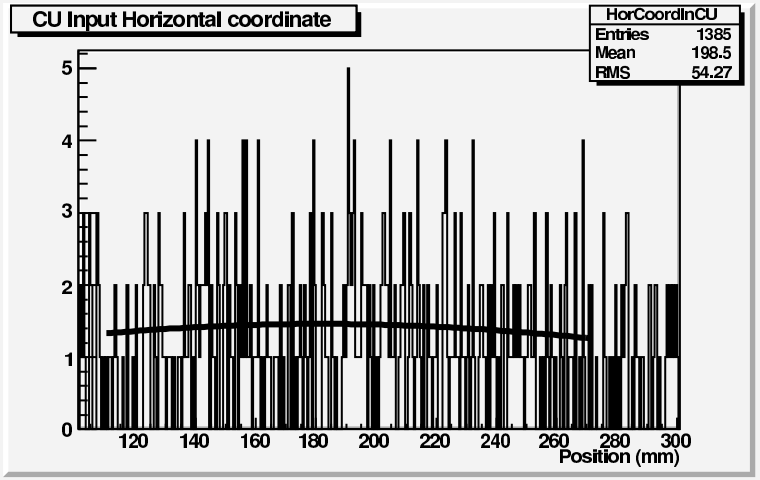
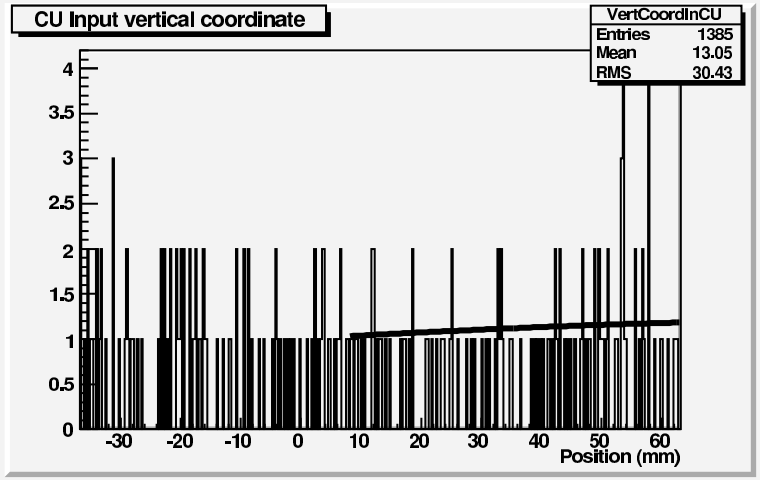
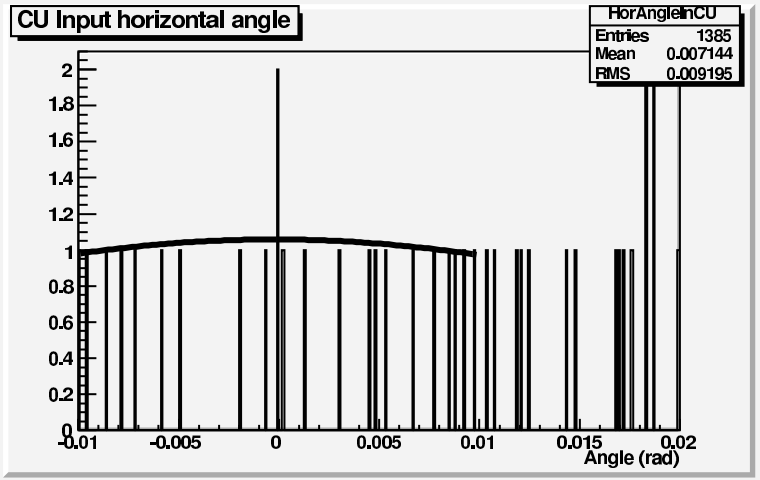
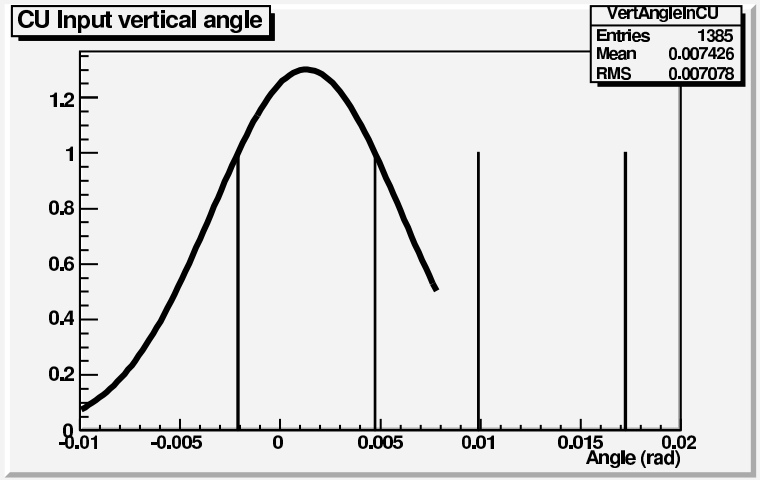
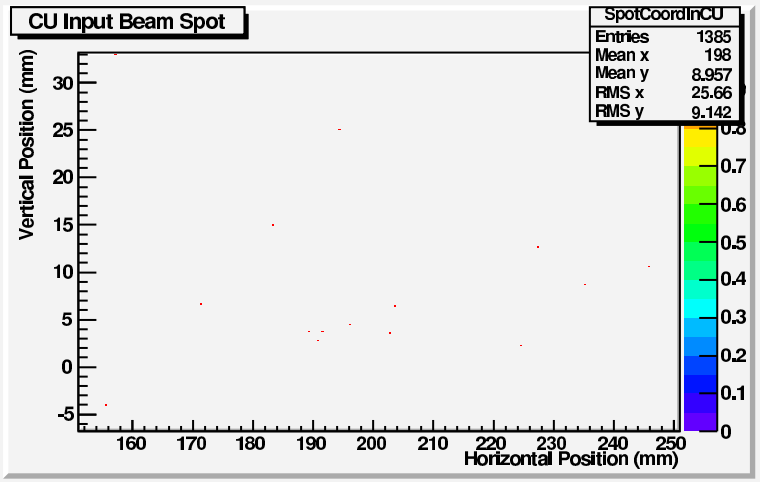
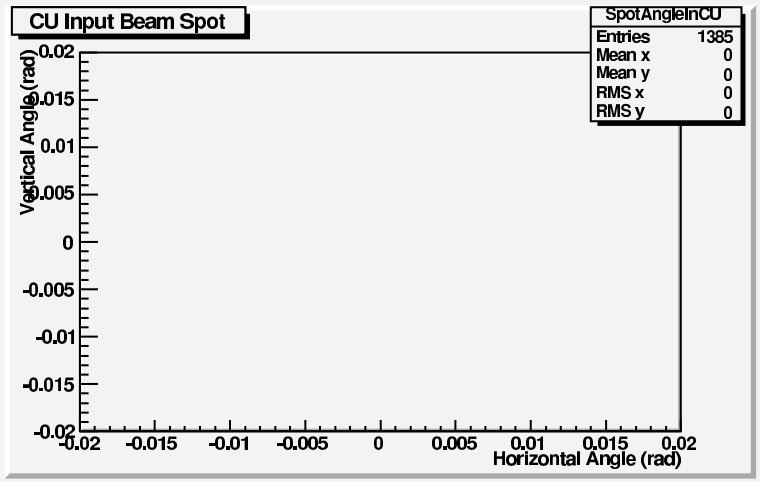

CU Input Horizontal coordinate
HorCoordInCU
Entries 1385
Mean 198.5
RMS 54.27
Position (mm)

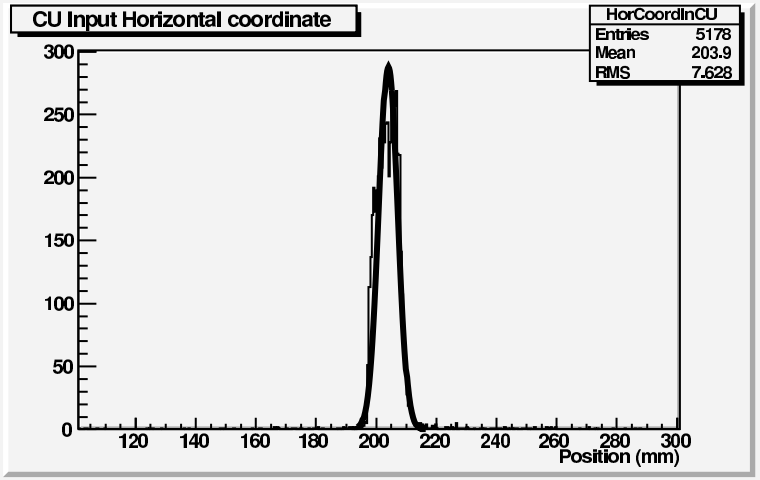

CU Input vertical coordinate
VertCoordInCU
Entries 1385
Mean 13.05
RMS 30.43
Position (mm)

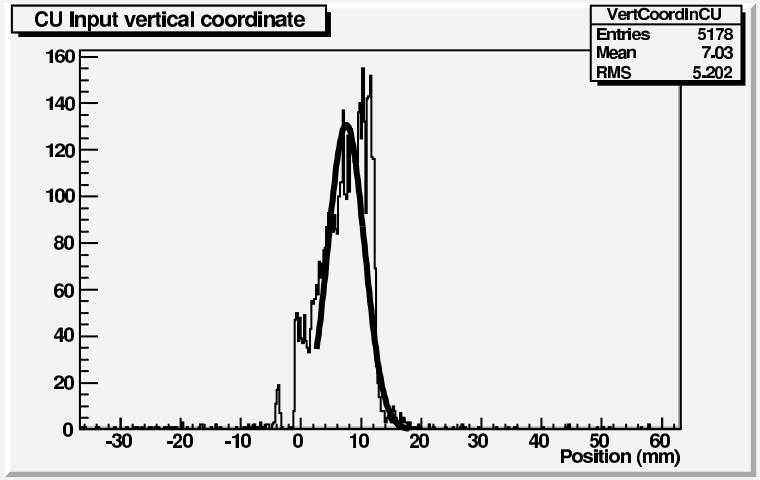

CU Input horizontal angle
HorAngleInCU
Entries 1385
Mean 0.007144
RMS 0.009195
Angle (rad)

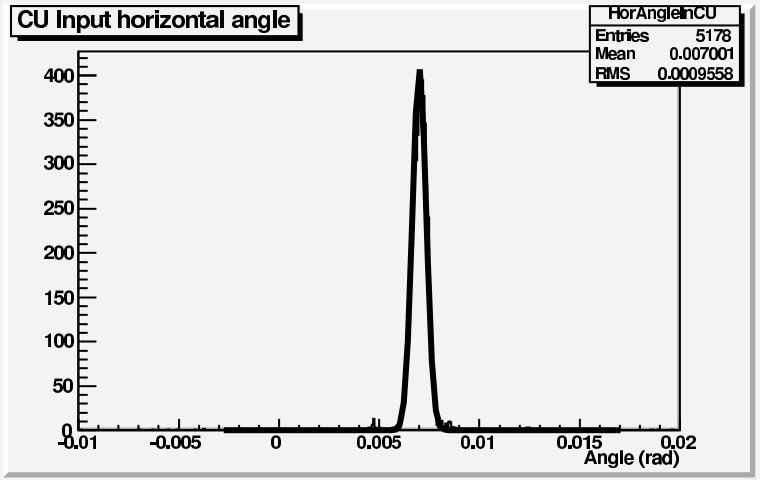

CU Input vertical angle
VertAngleInCU
Entries 1385
Mean 0.007426
RMS 0.007078
Angle (rad)

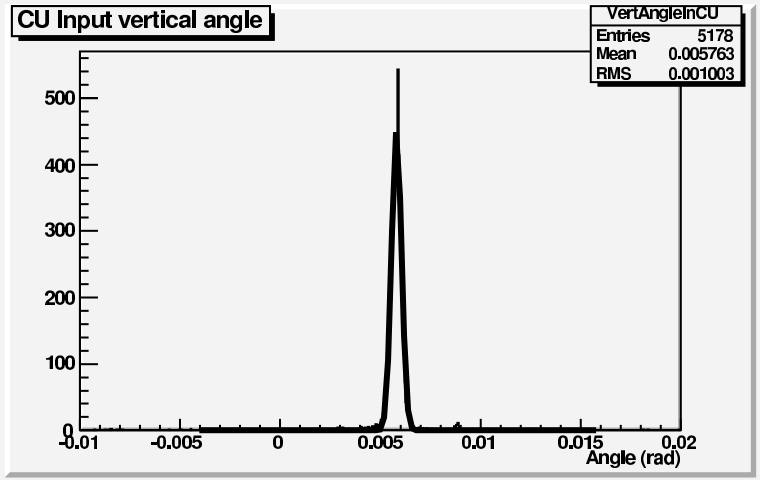

CU Input Beam Spot
SpotCoordInCU
Entries 1385
Mean x 198
Mean y 8.957
RMS x 25.66
RMS y 9.142
Vertical Position (mm)
Horizontal Position (mm)

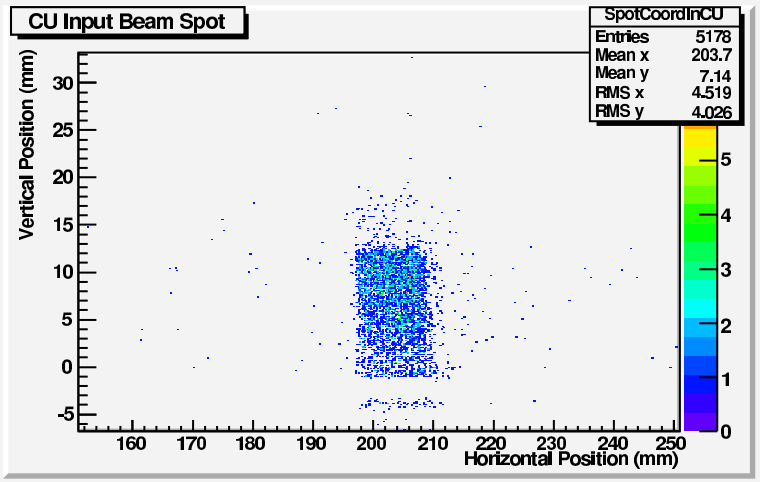

CU Input Beam Spot
SpotAngleInCU
Entries 1385
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

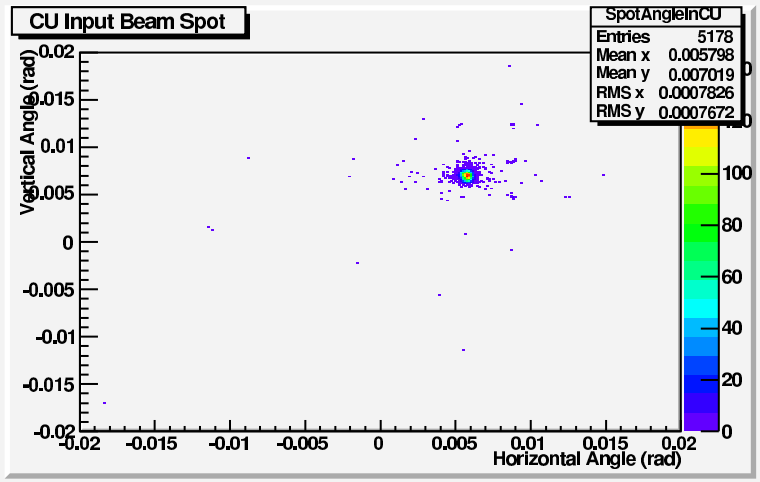

CU Input Horizontal coordinate
HorCoordInCU
Entries 5178
Mean 203.9
RMS 7.628
Position (mm)

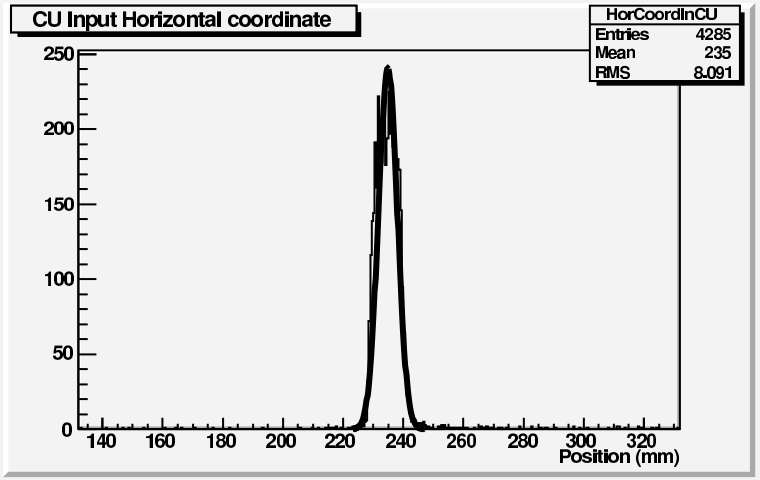

CU Input vertical coordinate
VertCoordInCU
Entries 5178
Mean 7.03
RMS 5.202
Position (mm)

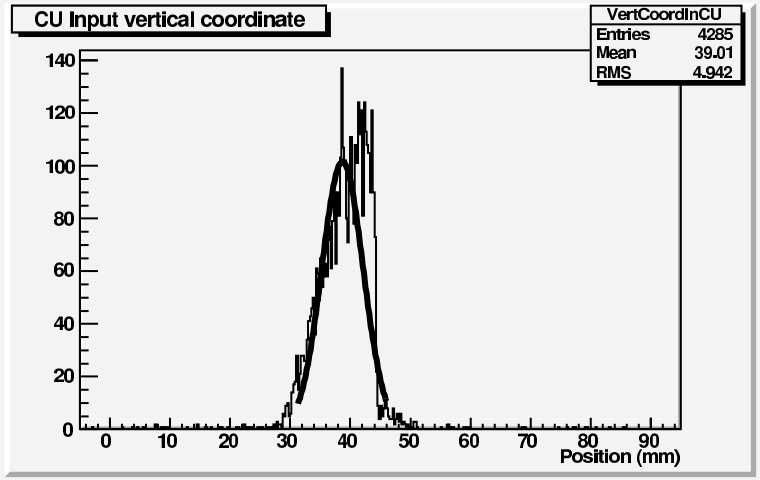

CU Input horizontal angle
HorAngleInCU
Entries 5178
Mean 0.007001
RMS 0.0009558
Angle (rad)

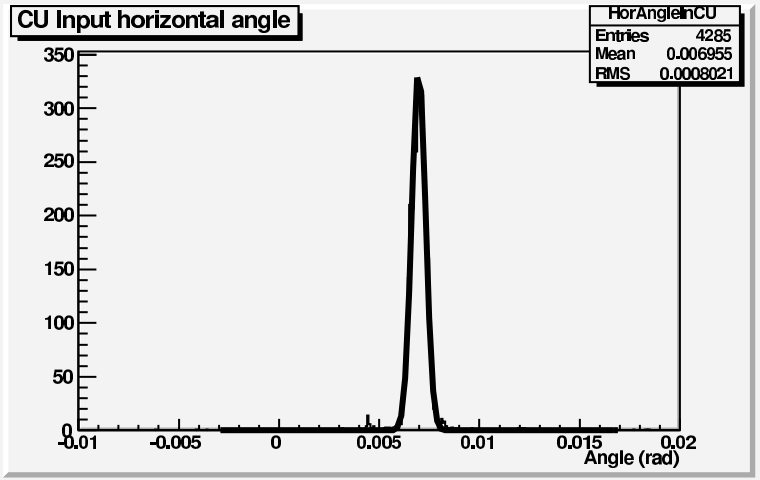

CU Input vertical angle
VertAngleInCU
Entries 5178
Mean 0.005763
RMS 0.001003
Angle (rad)

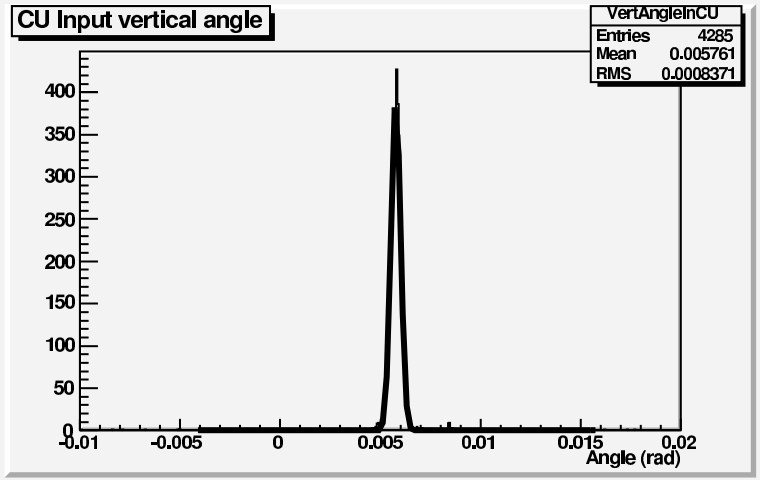

CU Input Beam Spot
SpotCoordInCU
Entries 5178
Mean x 203.7
Mean y 7.14
RMS x 4.519
RMS y 4.026
Vertical Position (mm)
Horizontal Position (mm)

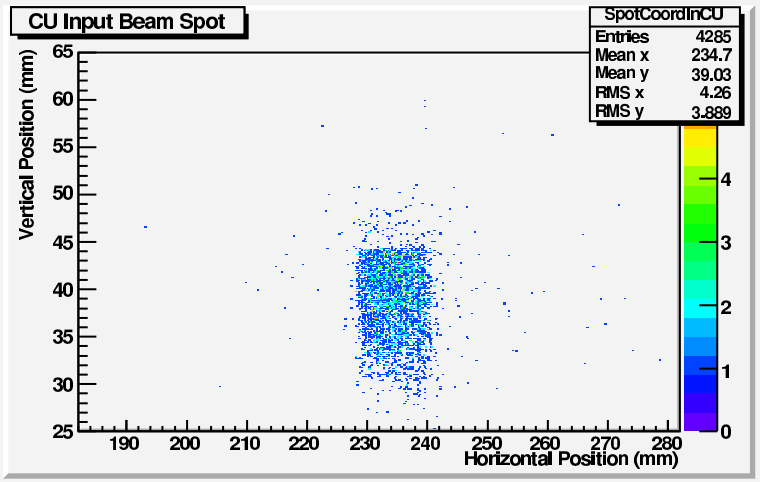

CU Input Beam Spot
SpotAngleInCU
Entries 5178
Mean x 0.005798
Mean y 0.007019
RMS x 0.0007826
RMS y 0.0007672
Vertical Angle (rad)
Horizontal Angle (rad)

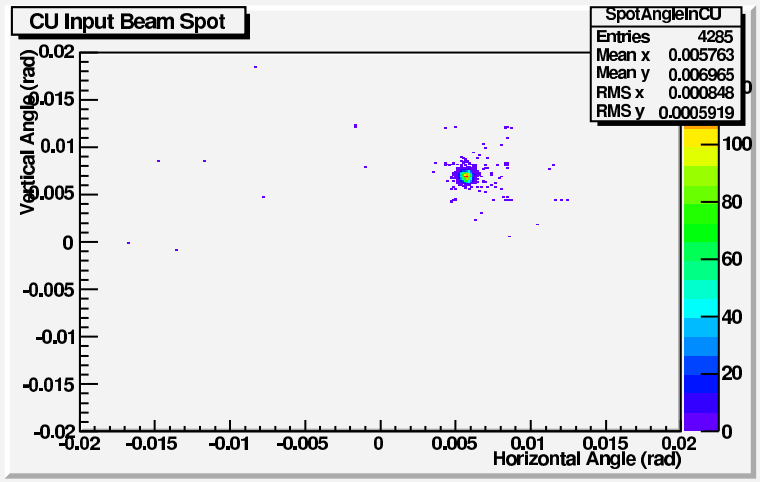

CU Input Horizontal coordinate
HorCoordInCU
Entries 4285
Mean 235
RMS 8.091
Position (mm)

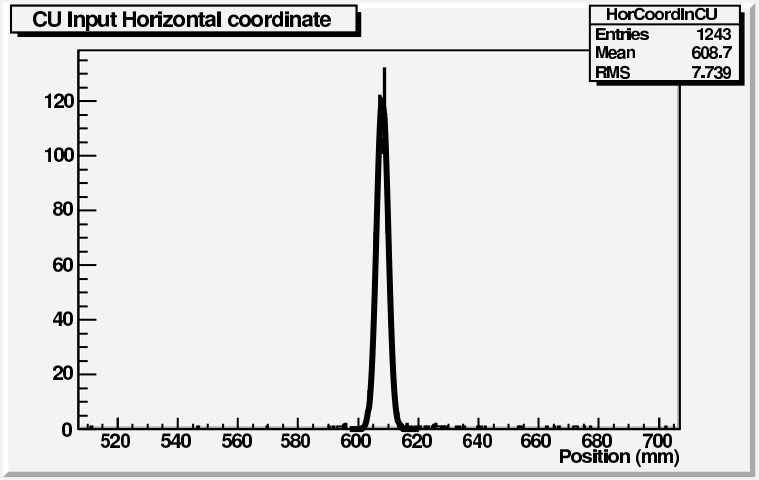

CU Input vertical coordinate
VertCoordInCU
Entries 4285
Mean 39.01
RMS 4.942
Position (mm)

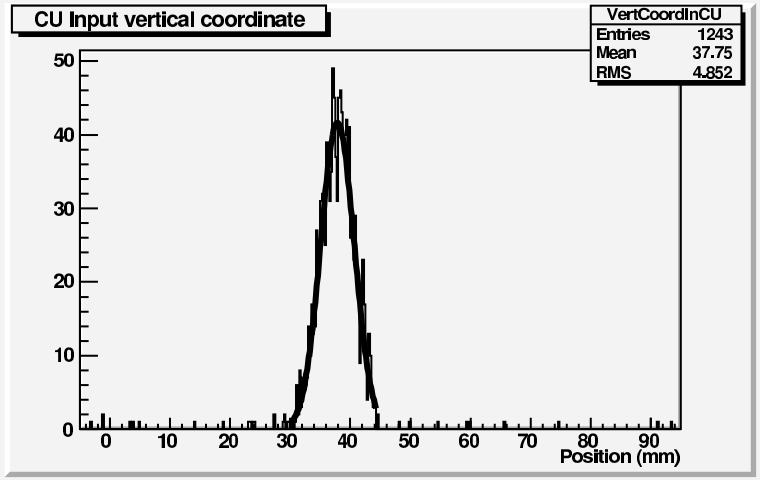

CU Input horizontal angle
HorAngleInCU
Entries 4285
Mean 0.006955
RMS 0.0008021
Angle (rad)

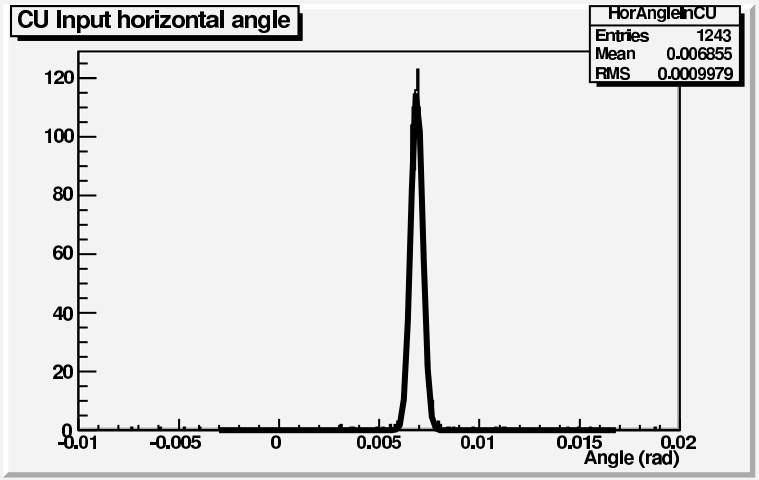

CU Input vertical angle
VertAngleInCU
Entries 4285
Mean 0.005761
RMS 0.0008371
Angle (rad)

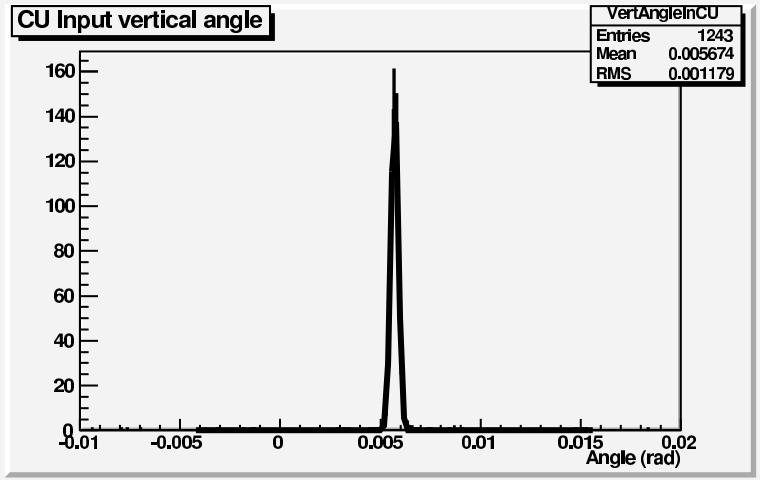

CU Input Beam Spot
SpotCoordInCU
Entries 4285
Mean x 234.7
Mean y 39.03
RMS x 4.26
RMS y 3.889
Vertical Position (mm)
Horizontal Position (mm)

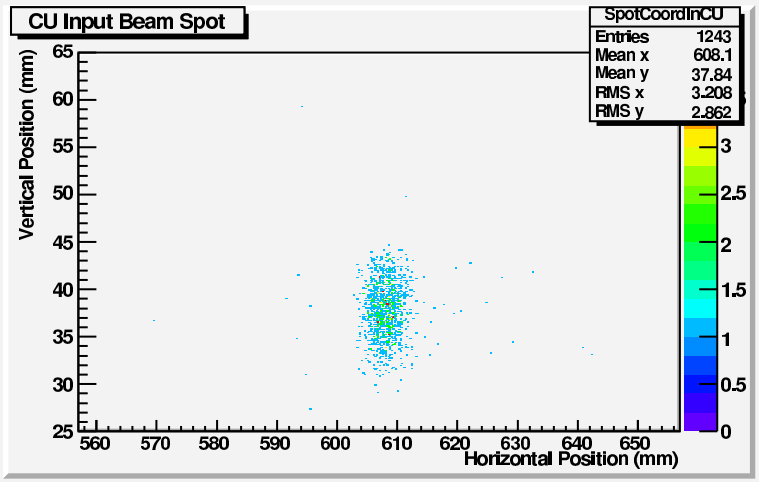

CU Input Beam Spot
SpotAngleInCU
Entries 4285
Mean x 0.005763
Mean y 0.006965
RMS x 0.000848
RMS y 0.0005919
Vertical Angle (rad)
Horizontal Angle (rad)

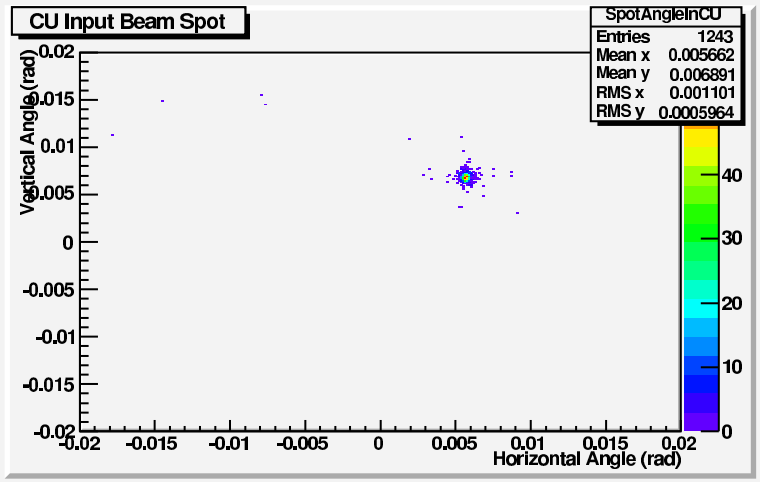

CU Input Horizontal coordinate
HorCoordInCU
Entries 1243
Mean 608.7
RMS 7.739
Position (mm)

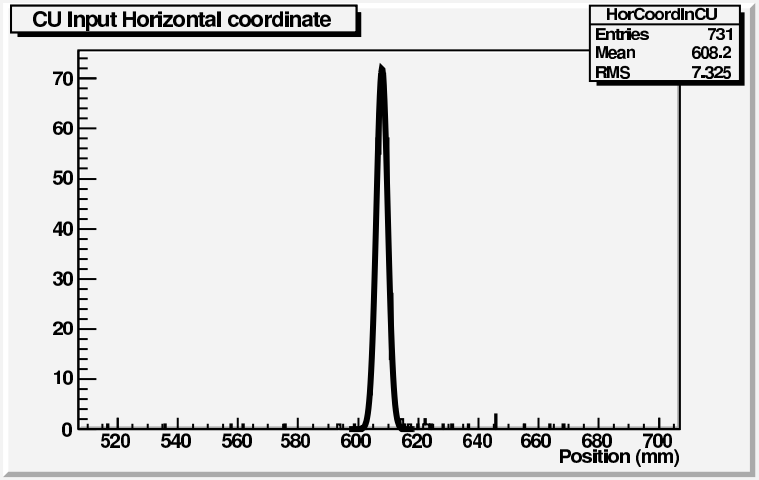

CU Input vertical coordinate
VertCoordInCU
Entries 1243
Mean 37.75
RMS 4.852
Position (mm)

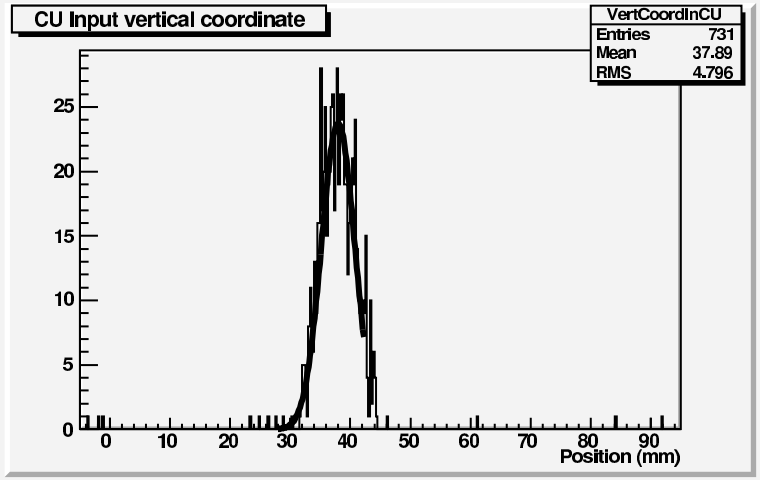

CU Input horizontal angle
HorAngleInCU
Entries 1243
Mean 0.006855
RMS 0.0009979
Angle (rad)

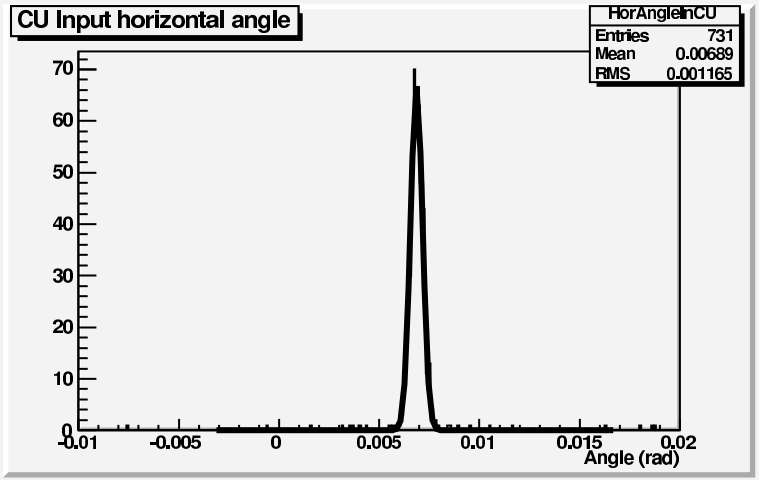

CU Input vertical angle
VertAngleInCU
Entries 1243
Mean 0.005674
RMS 0.001179
Angle (rad)

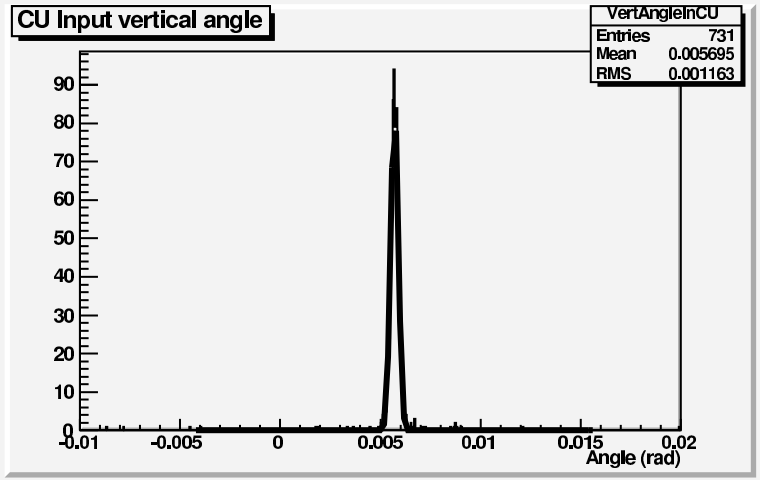

CU Input Beam Spot
SpotCoordInCU
Entries 1243
Mean x 608.1
Mean y 37.84
RMS x 3.208
RMS y 2.862
Vertical Position (mm)
Horizontal Position (mm)

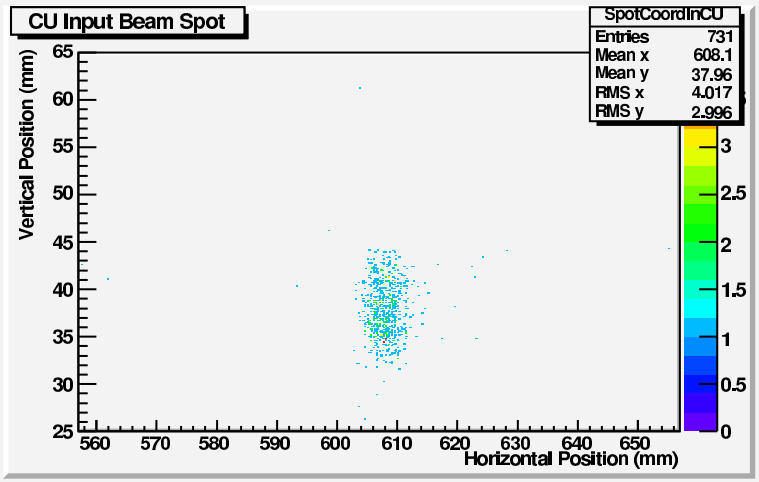

CU Input Beam Spot
SpotAngleInCU
Entries 1243
Mean x 0.005662
Mean y 0.006891
RMS x 0.001101
RMS y 0.0005964
Vertical Angle (rad)
Horizontal Angle (rad)

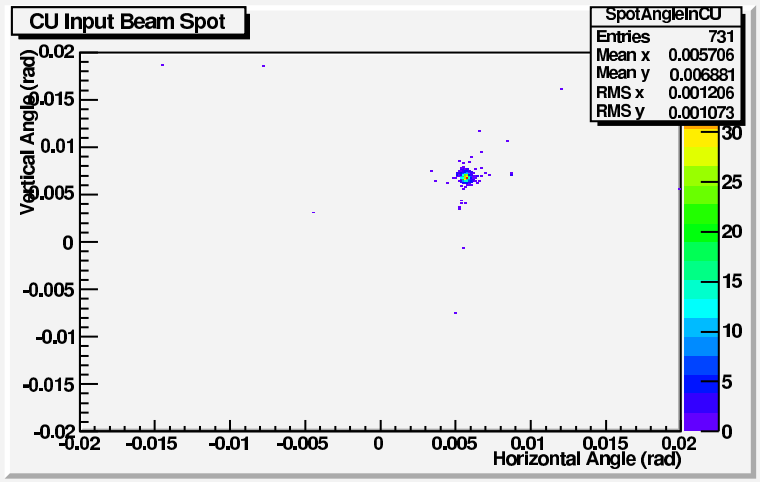

CU Input Horizontal coordinate
HorCoordInCU
Entries 731
Mean 608.2
RMS 7.325
Position (mm)

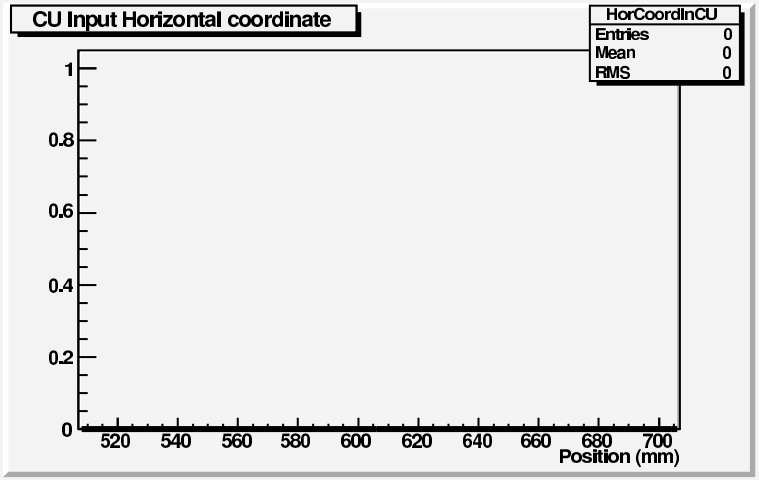

CU Input vertical coordinate
VertCoordInCU
Entries 731
Mean 37.89
RMS 4.796
Position (mm)

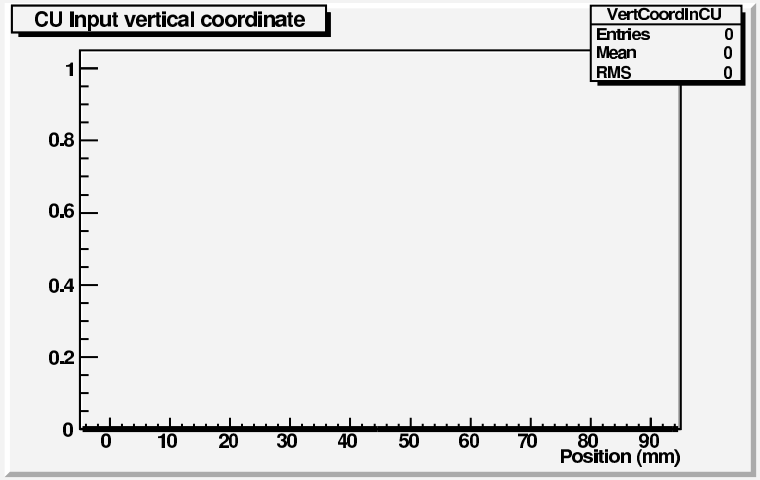

CU Input horizontal angle
HorAngleInCU
Entries 731
Mean 0.00689
RMS 0.001165
Angle (rad)

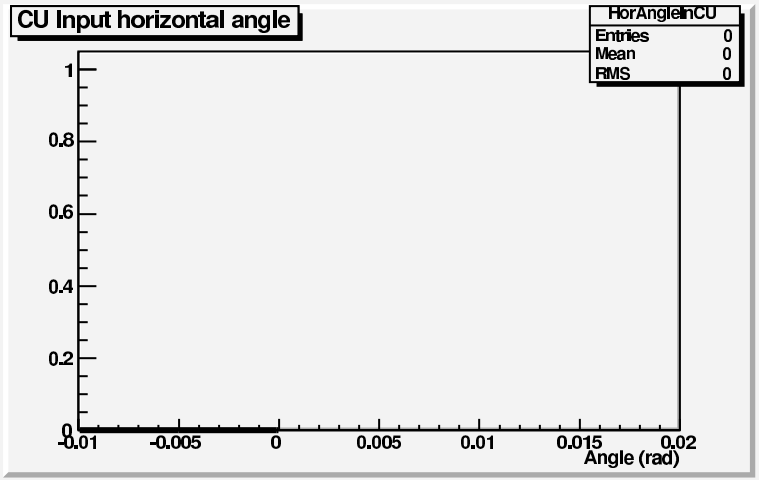

CU Input vertical angle
VertAngleInCU
Entries 731
Mean 0.005695
RMS 0.001163
Angle (rad)

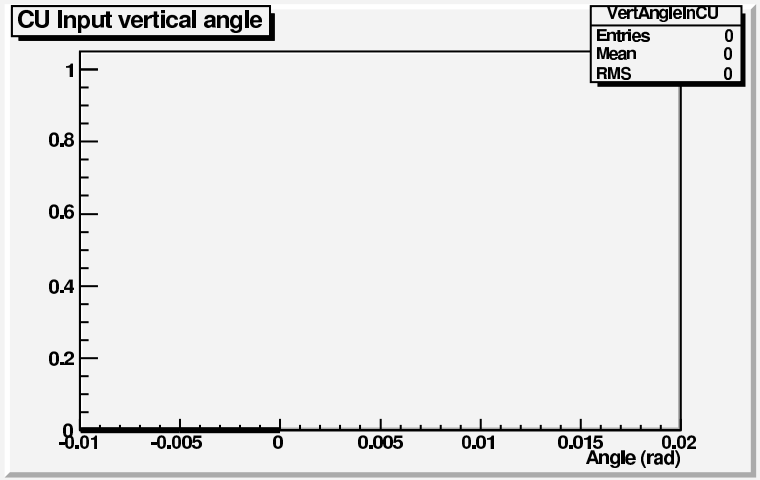

CU Input Beam Spot
SpotCoordInCU
Entries 731
Mean x 608.1
Mean y 37.96
RMS x 4.017
RMS y 2.996
Vertical Position (mm)
Horizontal Position (mm)

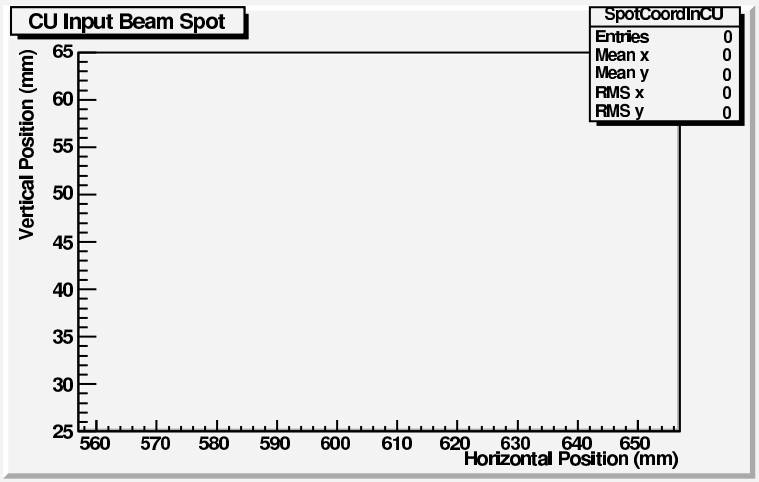

CU Input Beam Spot
SpotAngleInCU
Entries 731
Mean x 0.005706
Mean y 0.006881
RMS x 0.001206
RMS y 0.001073
Vertical Angle (rad)
Horizontal Angle (rad)

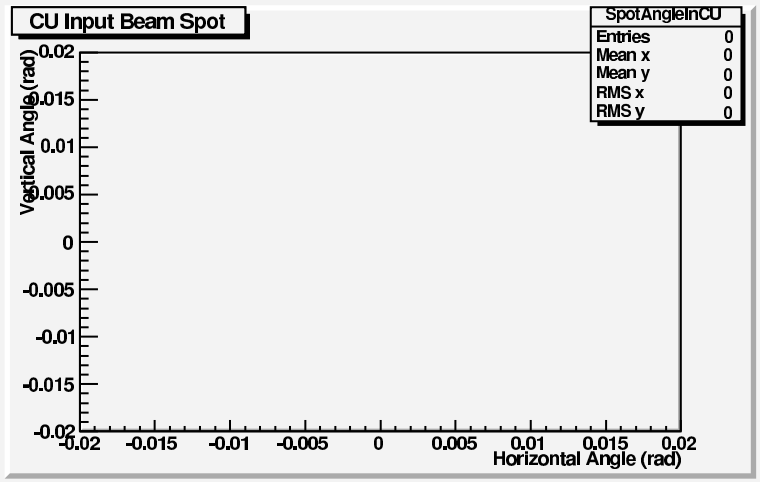

CU Input Horizontal coordinate
HorCoordInCU
Entries 0
Mean 0
RMS 0
Position (mm)

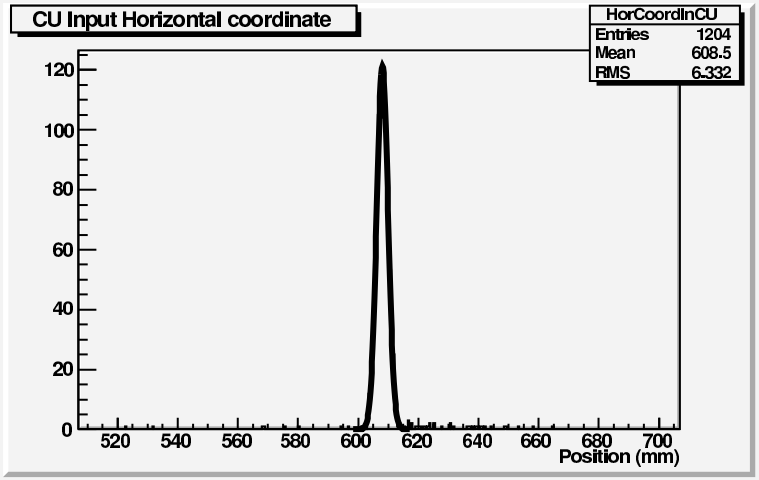

CU Input vertical coordinate
VertCoordInCU
Entries 0
Mean 0
RMS 0
Position (mm)

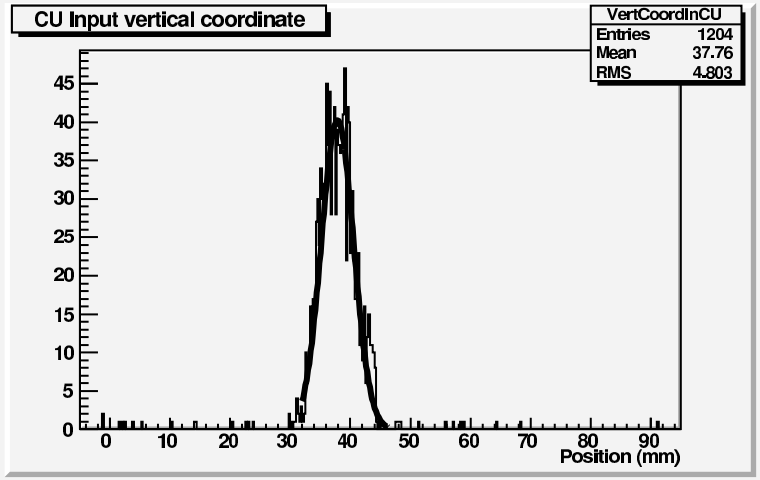

CU Input horizontal angle
HorAngleInCU
Entries 0
Mean 0
RMS 0
Angle (rad)

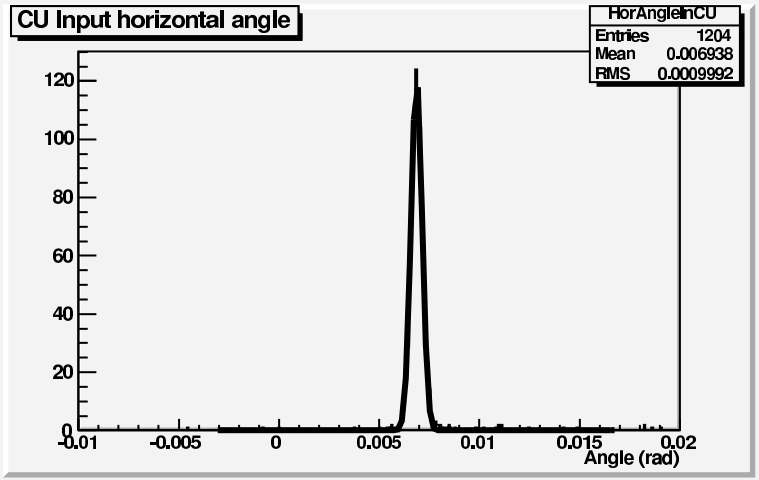

CU Input vertical angle
VertAngleInCU
Entries 0
Mean 0
RMS 0
Angle (rad)

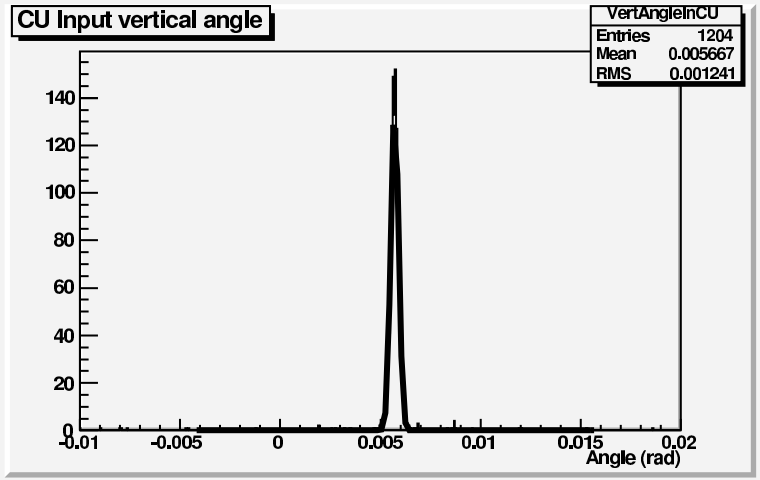

CU Input Beam Spot
SpotCoordInCU
Entries 0
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Position (mm)
Horizontal Position (mm)

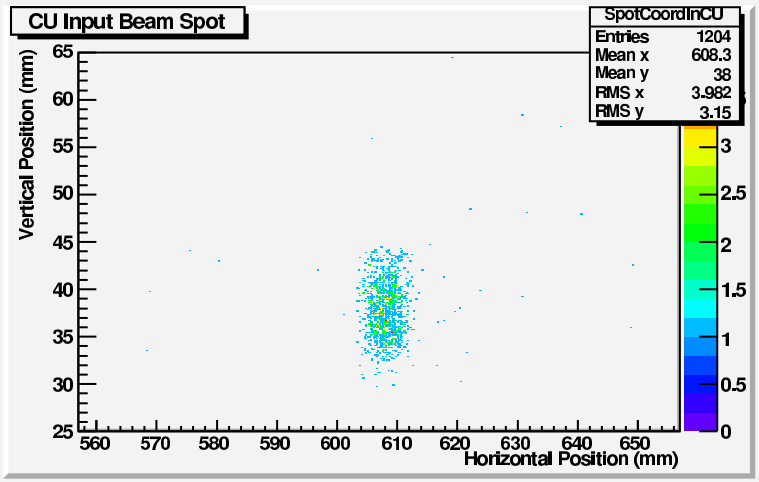

CU Input Beam Spot
SpotAngleInCU
Entries 0
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

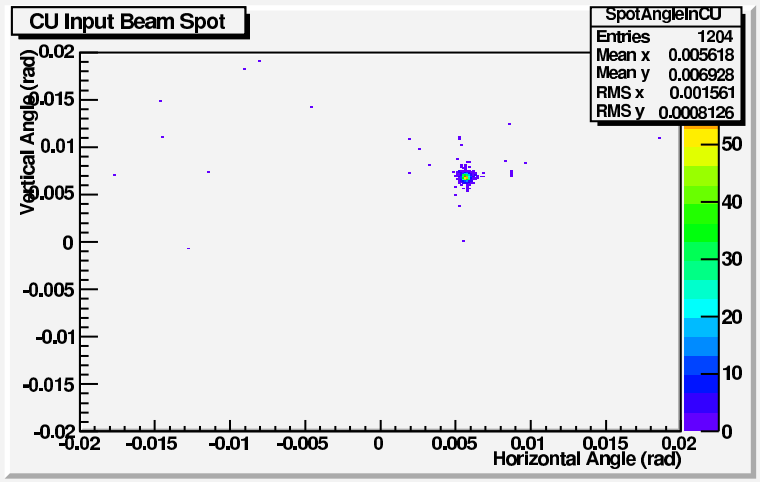

CU Input Horizontal coordinate
HorCoordInCU
Entries 1204
Mean 608.5
RMS 6.332
Position (mm)

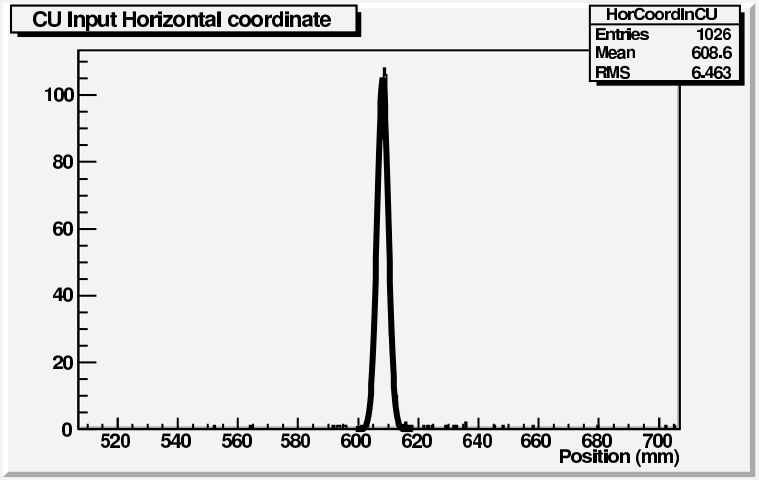

CU Input vertical coordinate
VertCoordInCU
Entries 1204
Mean 37.76
RMS 4.803
Position (mm)

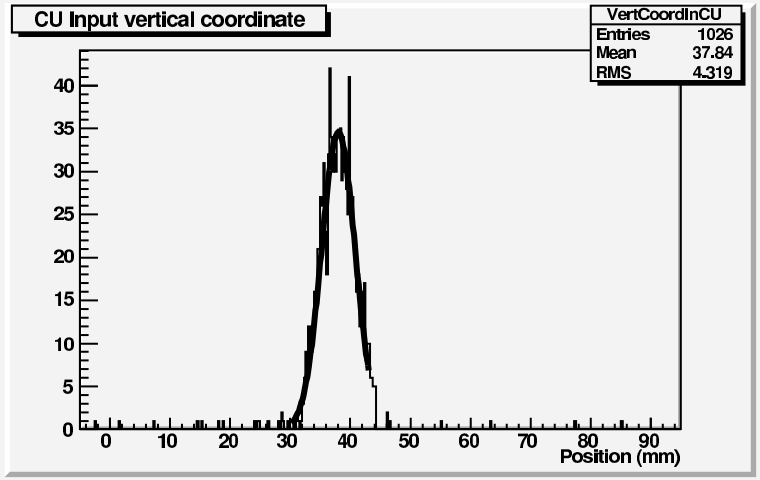

CU Input horizontal angle
HorAngleInCU
Entries 1204
Mean 0.006938
RMS 0.0009992
Angle (rad)

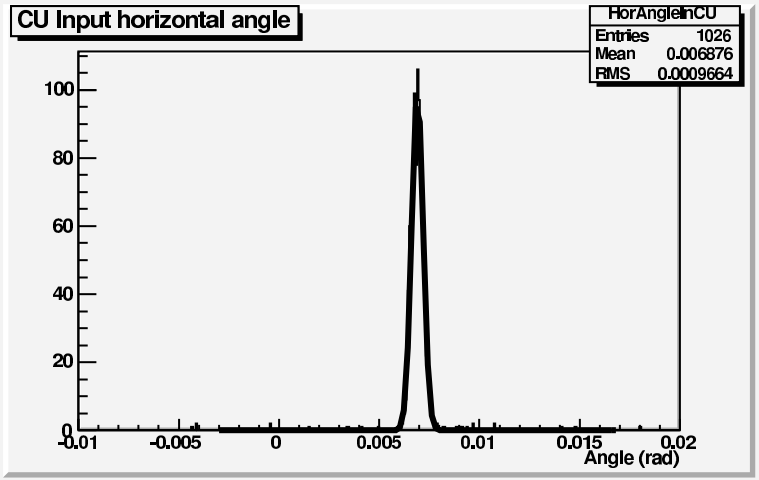

CU Input vertical angle
VertAngleInCU
Entries 1204
Mean 0.005667
RMS 0.001241
Angle (rad)

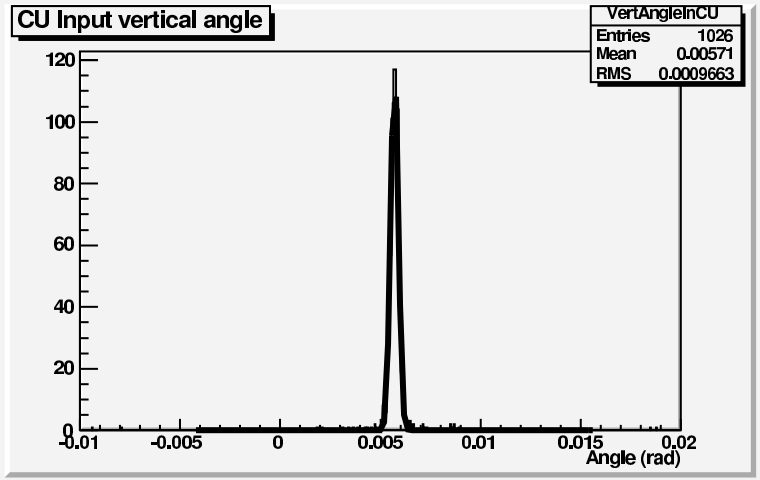

CU Input Beam Spot
SpotCoordInCU
Entries 1204
Mean x 608.3
Mean y 38
RMS x 3.982
RMS y 3.15
Vertical Position (mm)
Horizontal Position (mm)

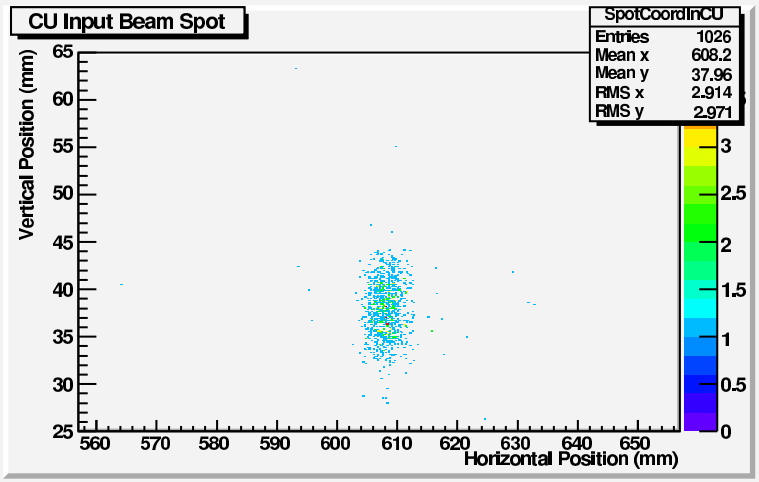

CU Input Beam Spot
SpotAngleInCU
Entries 1204
Mean x 0.005618
Mean y 0.006928
RMS x 0.001561
RMS y 0.0008126
Vertical Angle (rad)
Horizontal Angle (rad)

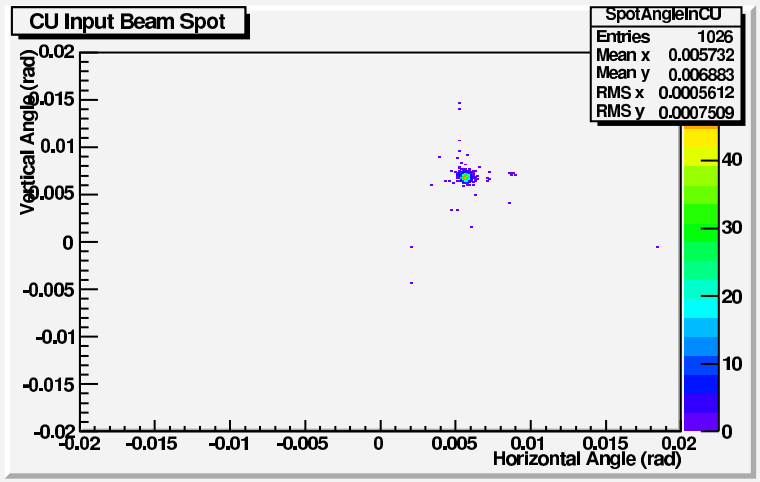

CU Input Horizontal coordinate
HorCoordInCU
Entries 1026
Mean 608.6
RMS 6.463
Position (mm)

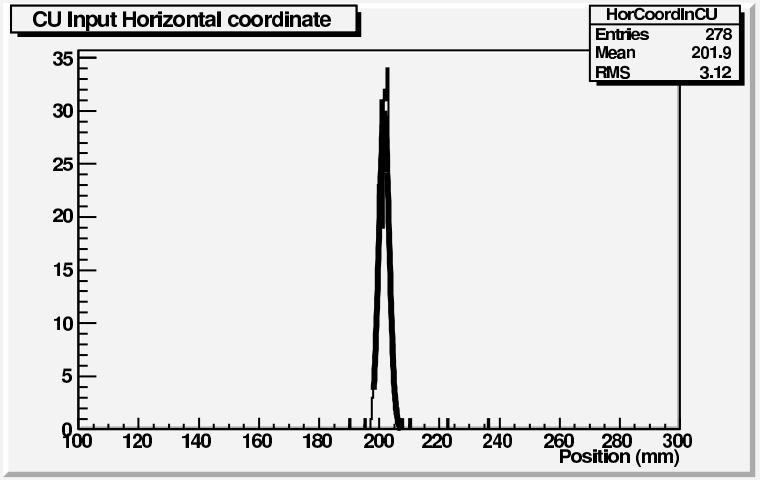

CU Input vertical coordinate
VertCoordInCU
Entries 1026
Mean 37.84
RMS 4.319
Position (mm)

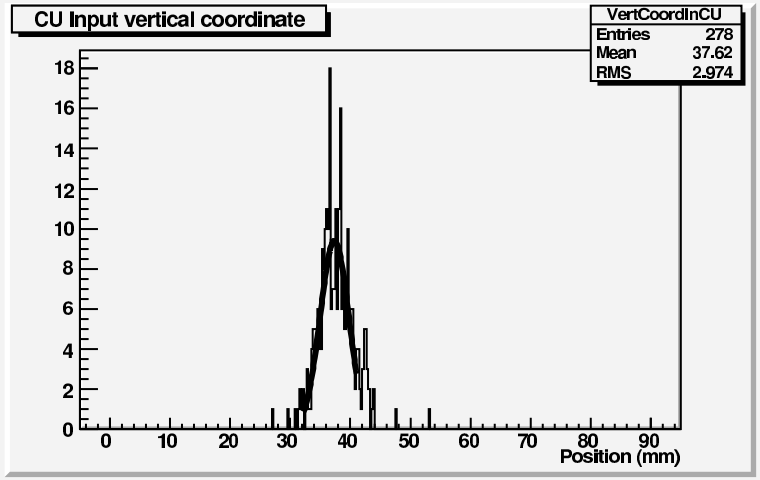

CU Input horizontal angle
HorAngleInCU
Entries 1026
Mean 0.006876
RMS 0.0009664
Angle (rad)

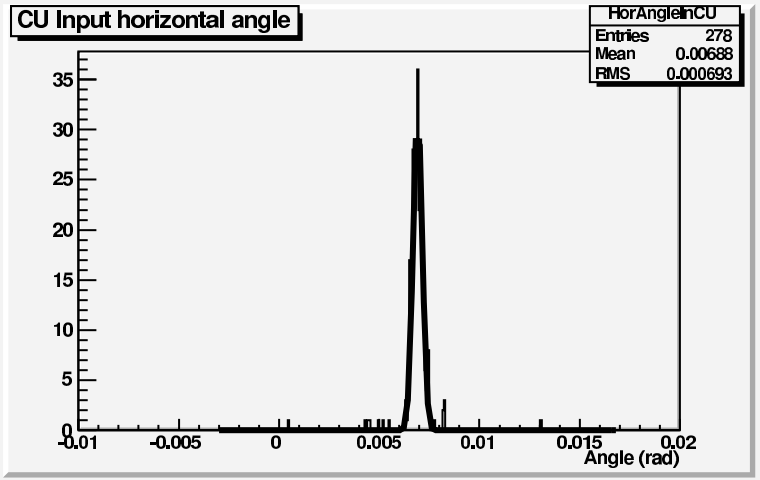

CU Input vertical angle
VertAngleInCU
Entries 1026
Mean 0.00571
RMS 0.0009663
Angle (rad)

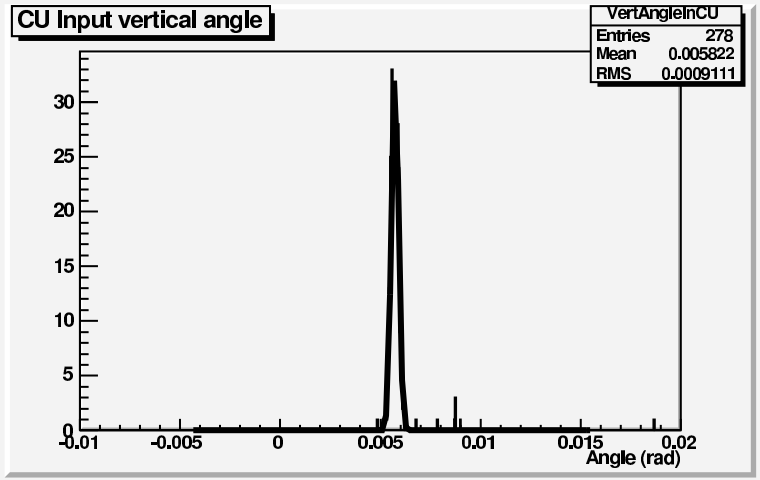

CU Input Beam Spot
SpotCoordInCU
Entries 1026
Mean x 608.2
Mean y 37.96
RMS x 2.914
RMS y 2.971
Vertical Position (mm)
Horizontal Position (mm)

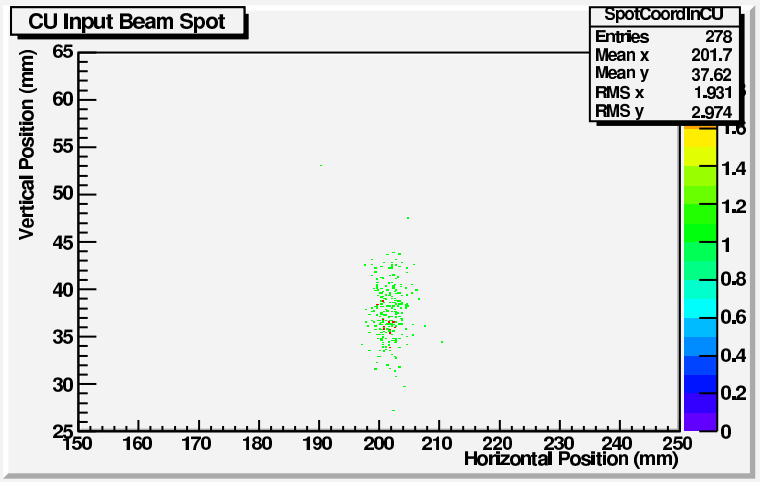

CU Input Beam Spot
SpotAngleInCU
Entries 1026
Mean x 0.005732
Mean y 0.006883
RMS x 0.0005612
RMS y 0.0007509
Vertical Angle (rad)
Horizontal Angle (rad)

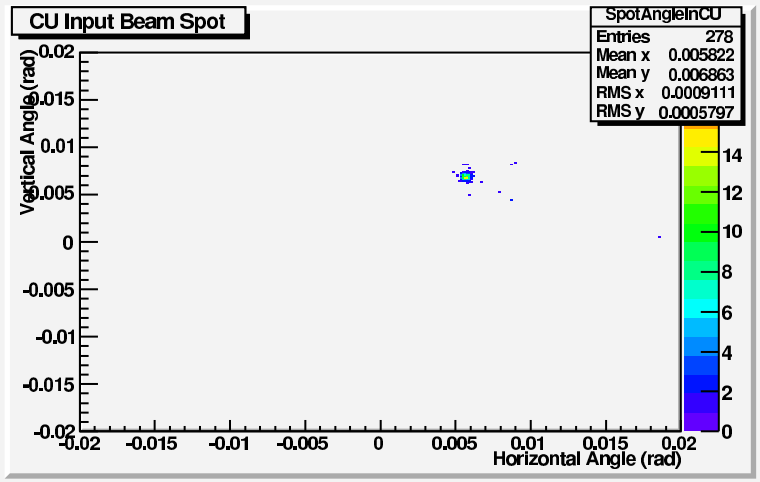

CU Input Horizontal coordinate
HorCoordInCU
Entries 278
Mean 201.9
RMS 3.12
Position (mm)

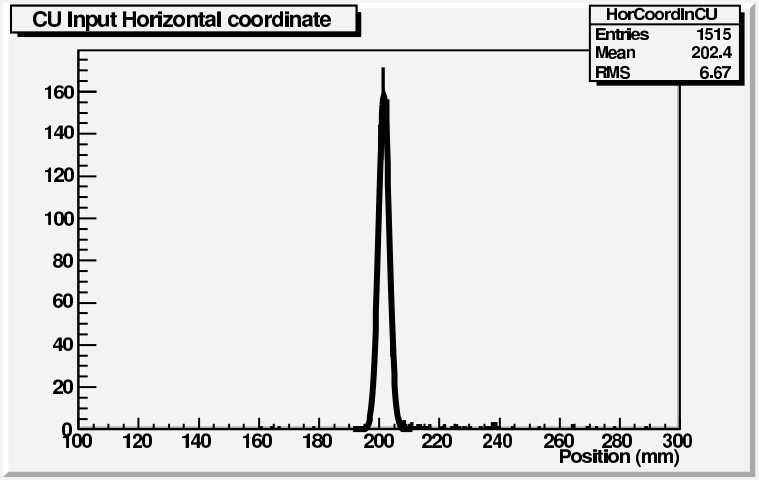

CU Input vertical coordinate
VertCoordInCU
Entries 278
Mean 37.62
RMS 2.974
Position (mm)

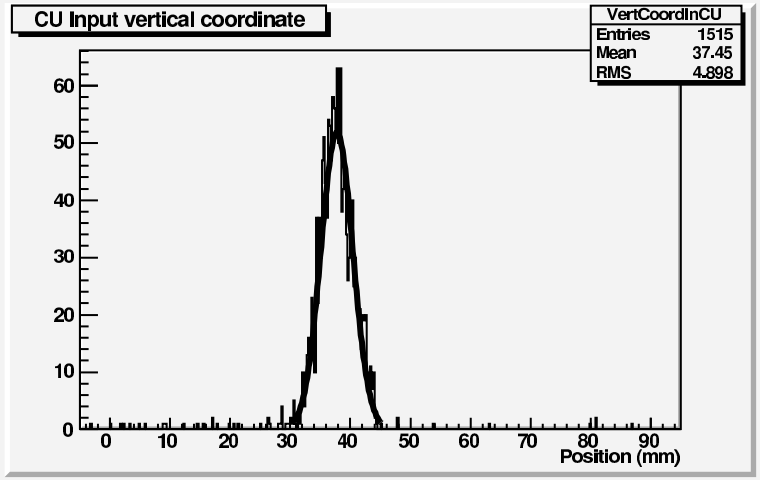

CU Input horizontal angle
HorAngleInCU
Entries 278
Mean 0.00688
RMS 0.000693
Angle (rad)

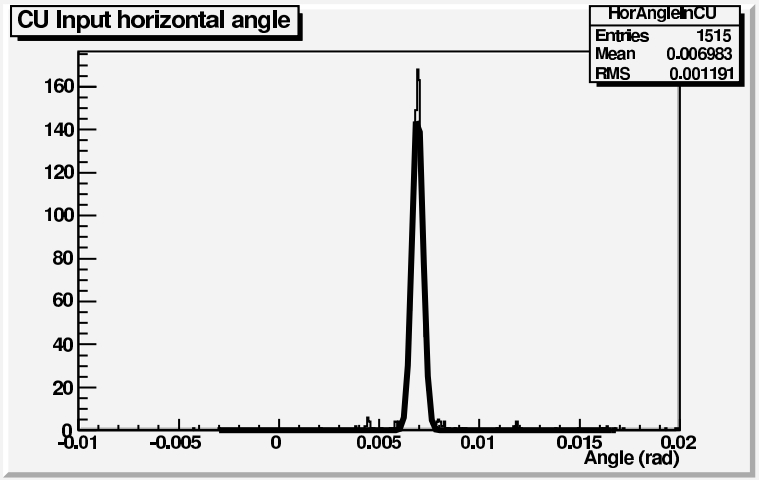

CU Input vertical angle
VertAngleInCU
Entries 278
Mean 0.005822
RMS 0.0009111
Angle (rad)

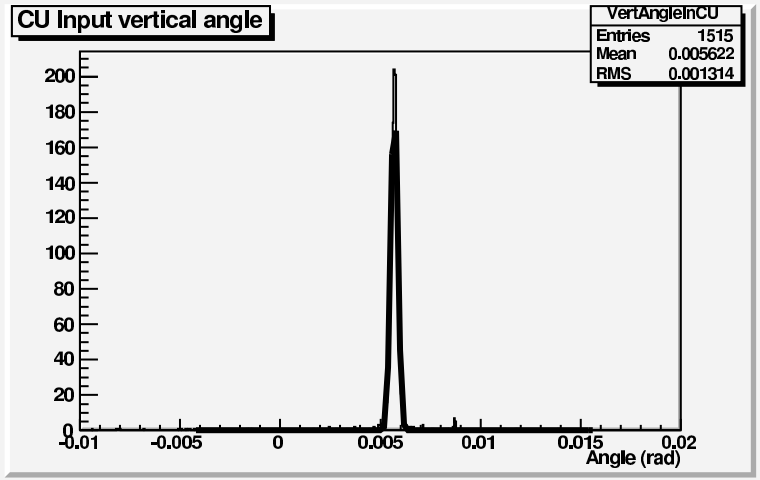

CU Input Beam Spot
SpotCoordInCU
Entries 278
Mean x 201.7
Mean y 37.62
RMS x 1.931
RMS y 2.974
Vertical Position (mm)
Horizontal Position (mm)

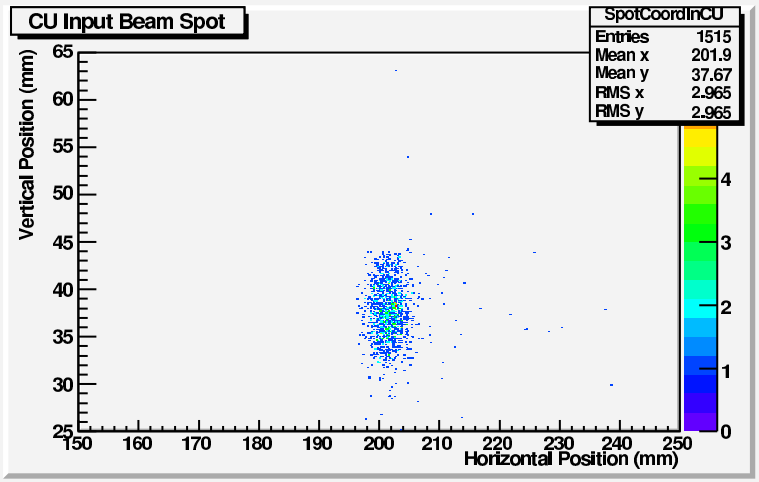

CU Input Beam Spot
SpotAngleInCU
Entries 278
Mean x 0.005822
Mean y 0.006863
RMS x 0.0009111
RMS y 0.0005797
Vertical Angle (rad)
Horizontal Angle (rad)

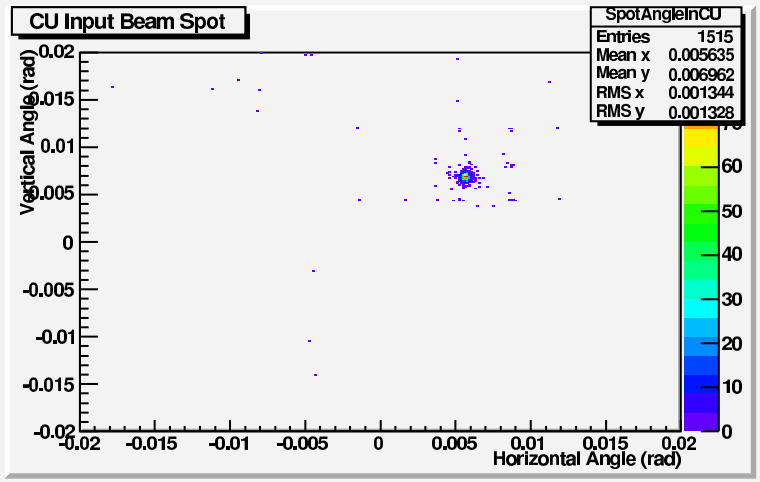

CU Input Horizontal coordinate
HorCoordInCU
Entries 1515
Mean 202.4
RMS 6.67
Position (mm)

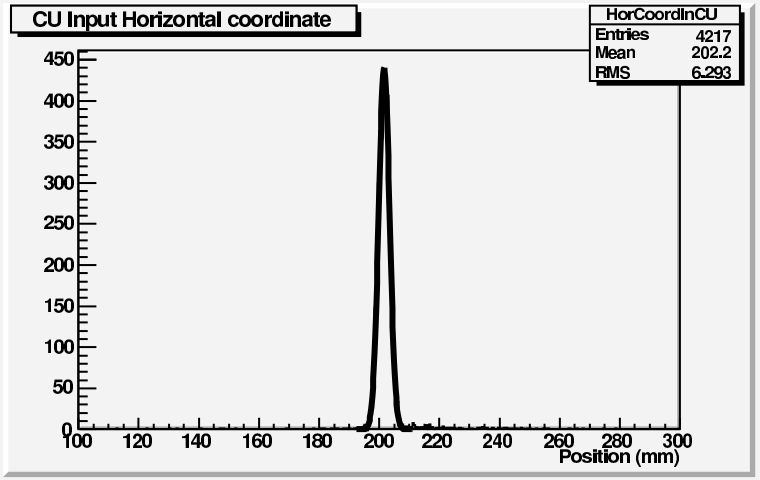

CU Input vertical coordinate
VertCoordInCU
Entries 1515
Mean 37.45
RMS 4.898
Position (mm)

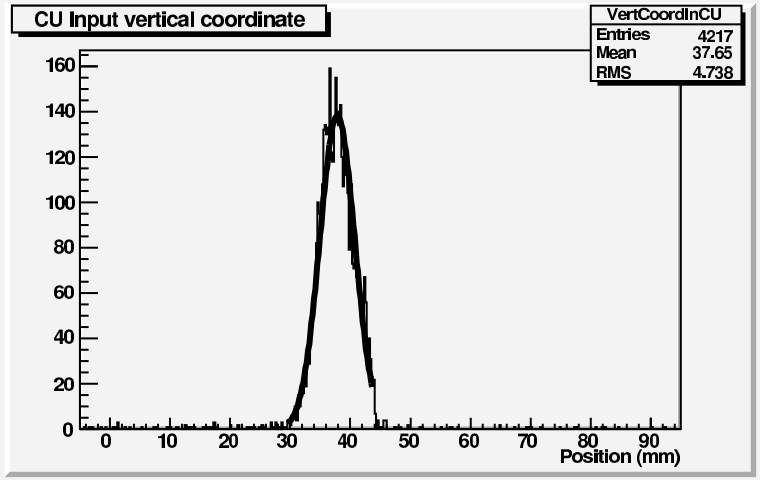

CU Input horizontal angle
HorAngleInCU
Entries 1515
Mean 0.006983
RMS 0.001191
Angle (rad)

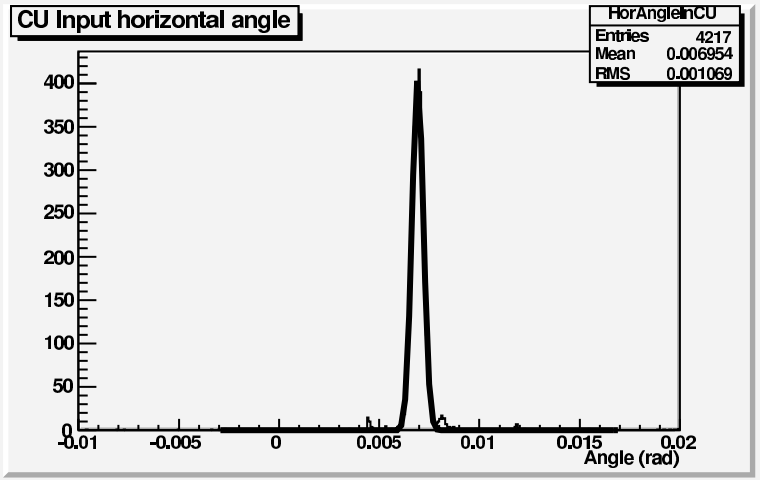

CU Input vertical angle
VertAngleInCU
Entries 1515
Mean 0.005622
RMS 0.001314
Angle (rad)

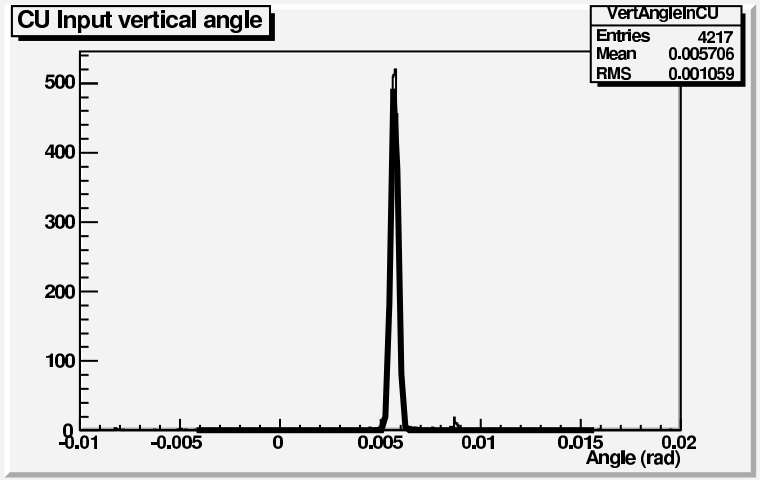

CU Input Beam Spot
SpotCoordInCU
Entries 1515
Mean x 201.9
Mean y 37.67
RMS x 2.965
RMS y 2.965
Vertical Position (mm)
Horizontal Position (mm)

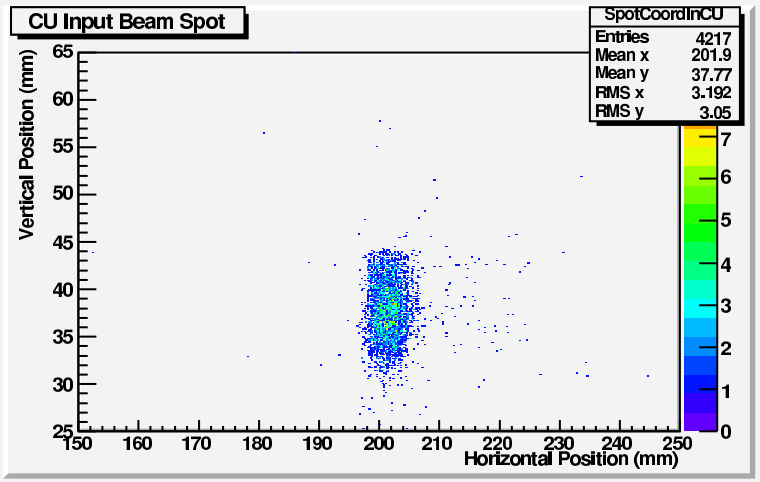

CU Input Beam Spot
SpotAngleInCU
Entries 1515
Mean x 0.005635
Mean y 0.006962
RMS x 0.001344
RMS y 0.001328
Vertical Angle (rad)
Horizontal Angle (rad)

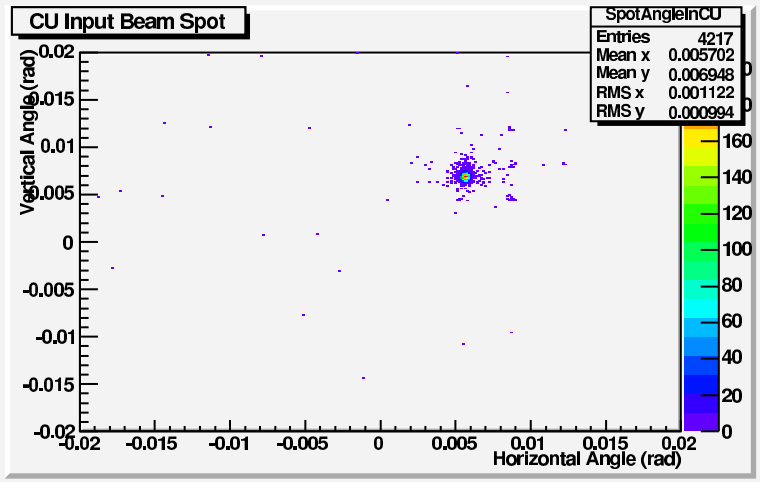

CU Input Horizontal coordinate
HorCoordInCU
Entries 4217
Mean 202.2
RMS 6.293
Position (mm)

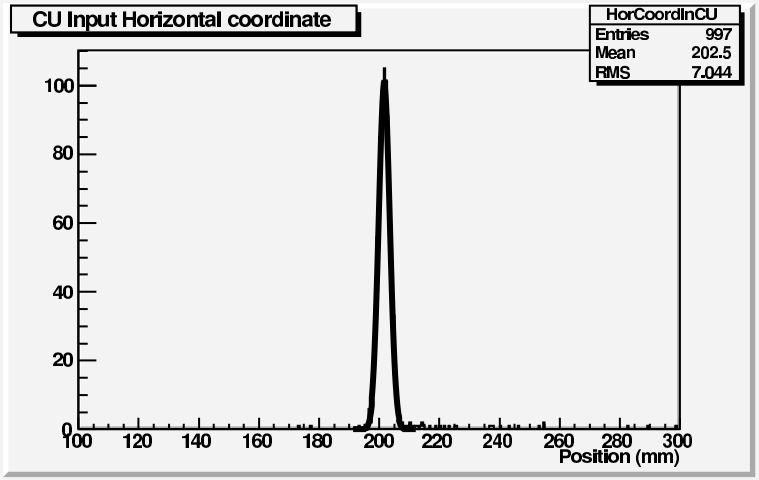

CU Input vertical coordinate
VertCoordInCU
Entries 4217
Mean 37.65
RMS 4.738
Position (mm)

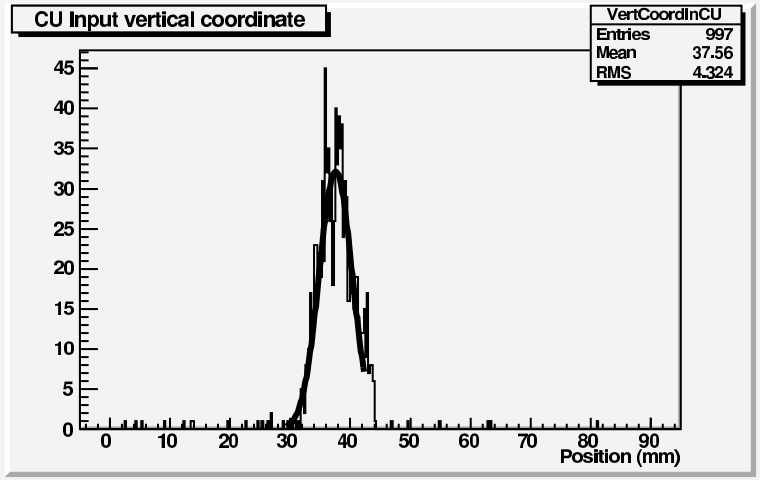

CU Input horizontal angle
HorAngleInCU
Entries 4217
Mean 0.006954
RMS 0.001069
Angle (rad)

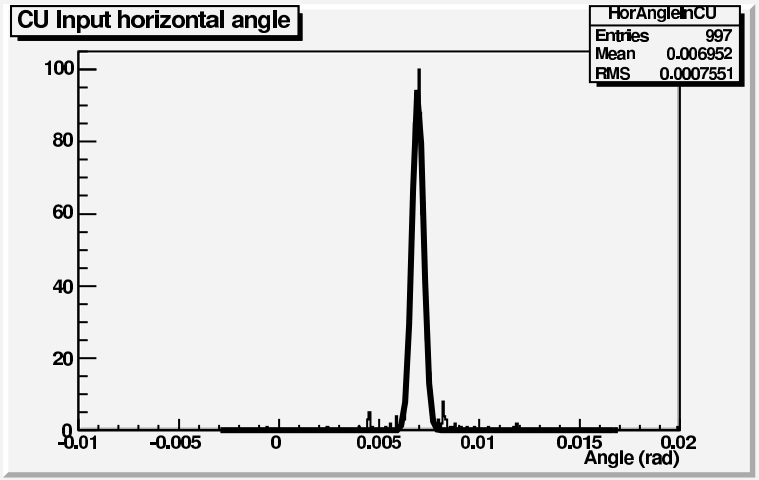

CU Input vertical angle
VertAngleInCU
Entries 4217
Mean 0.005706
RMS 0.001059
Angle (rad)

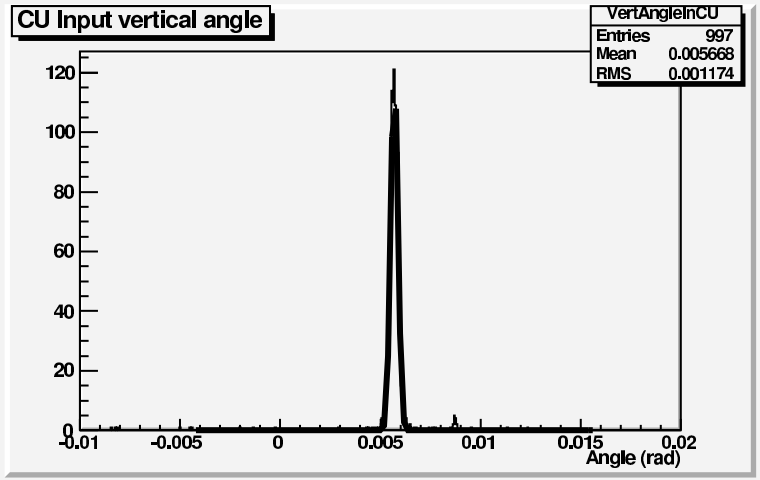

CU Input Beam Spot
SpotCoordInCU
Entries 4217
Mean x 201.9
Mean y 37.77
RMS x 3.192
RMS y 3.05
Vertical Position (mm)
Horizontal Position (mm)

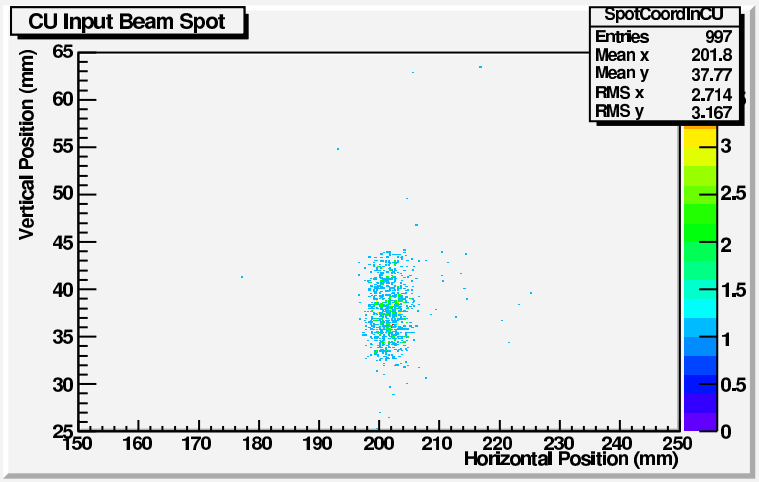

CU Input Beam Spot
SpotAngleInCU
Entries 4217
Mean x 0.005702
Mean y 0.006948
RMS x 0.001122
RMS y 0.000994
Vertical Angle (rad)
Horizontal Angle (rad)

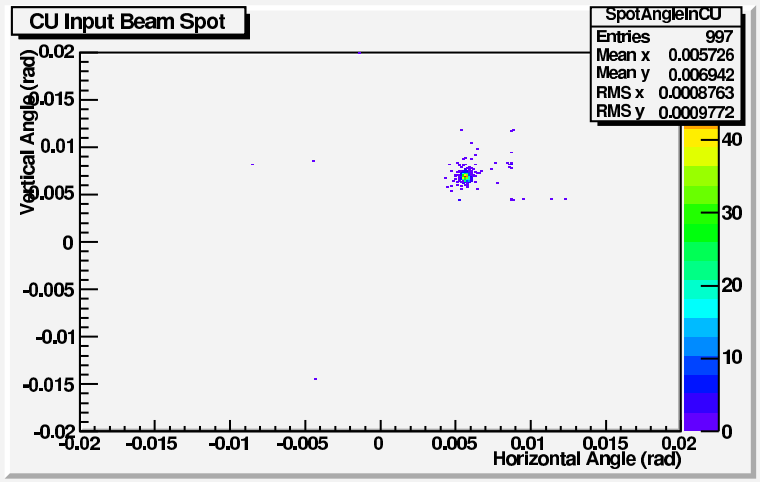

CU Input Horizontal coordinate
HorCoordInCU
Entries 997
Mean 202.5
RMS 7.044
Position (mm)

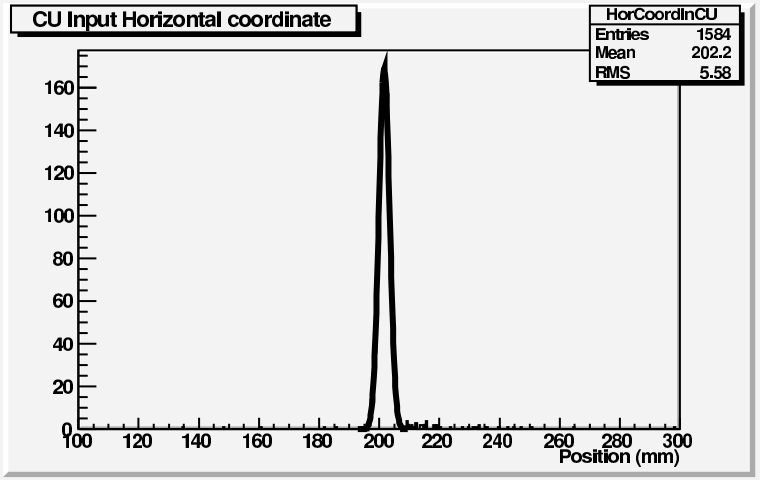

CU Input vertical coordinate
VertCoordInCU
Entries 997
Mean 37.56
RMS 4.324
Position (mm)

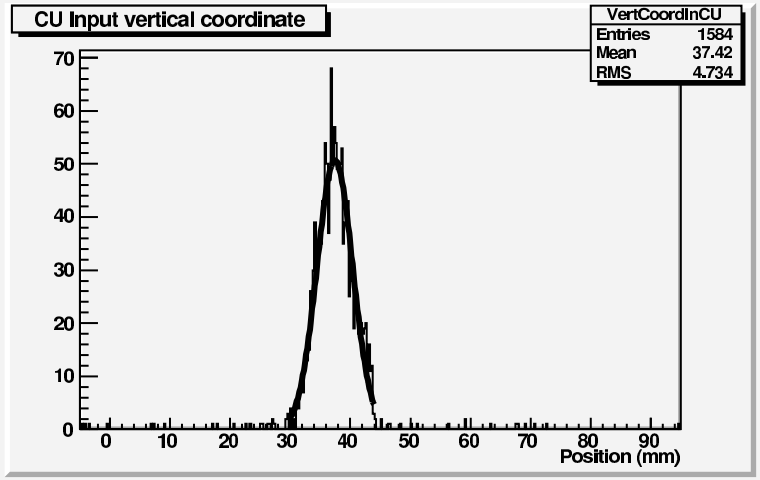

CU Input horizontal angle
HorAngleInCU
Entries 997
Mean 0.006952
RMS 0.0007551
Angle (rad)

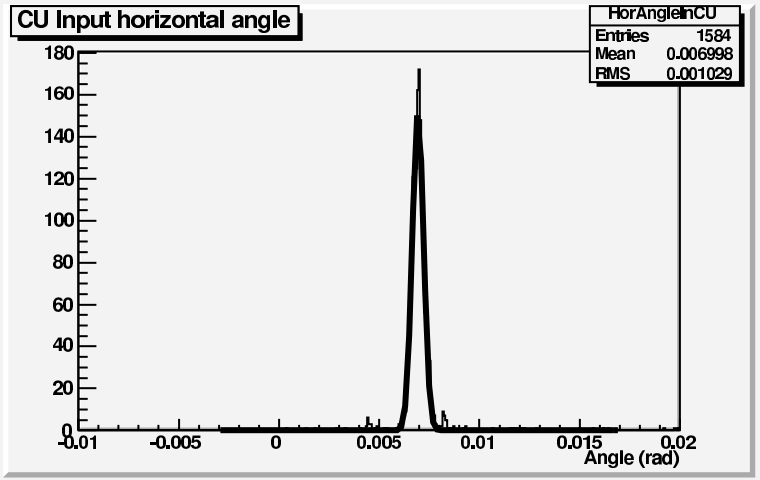

CU Input vertical angle
VertAngleInCU
Entries 997
Mean 0.005668
RMS 0.001174
Angle (rad)

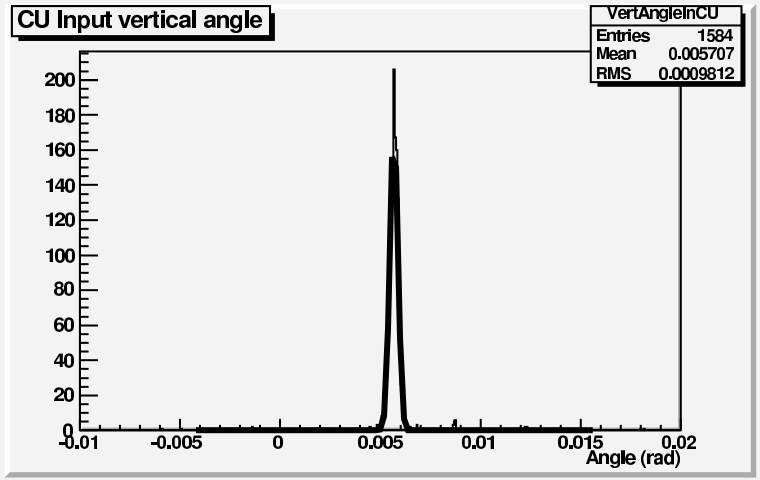

CU Input Beam Spot
SpotCoordInCU
Entries 997
Mean x 201.8
Mean y 37.77
RMS x 2.714
RMS y 3.167
Vertical Position (mm)
Horizontal Position (mm)

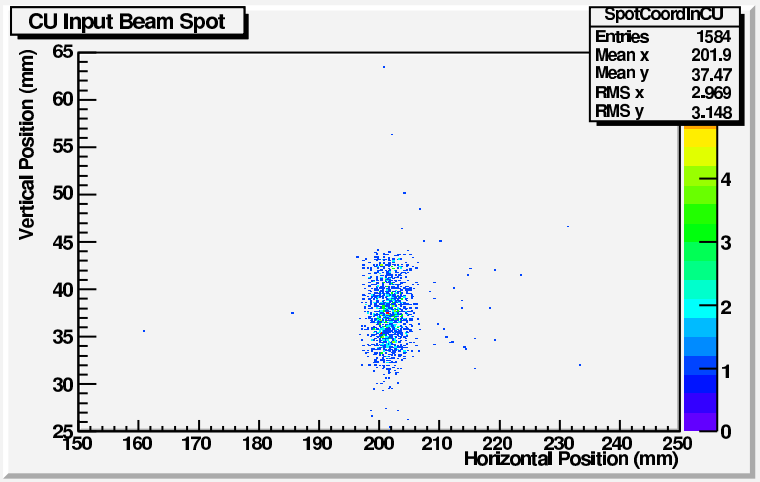

CU Input Beam Spot
SpotAngleInCU
Entries 997
Mean x 0.005726
Mean y 0.006942
RMS x 0.0008763
RMS y 0.0009772
Vertical Angle (rad)
Horizontal Angle (rad)

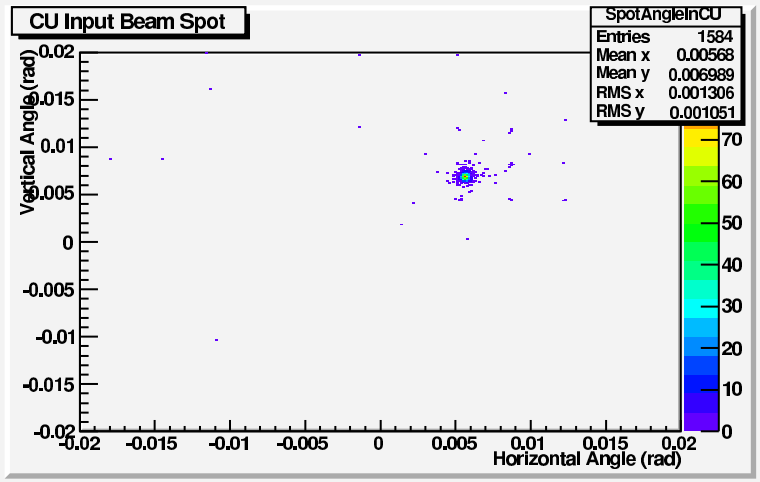

CU Input Horizontal coordinate
HorCoordInCU
Entries 1584
Mean 202.2
RMS 5.58
Position (mm)

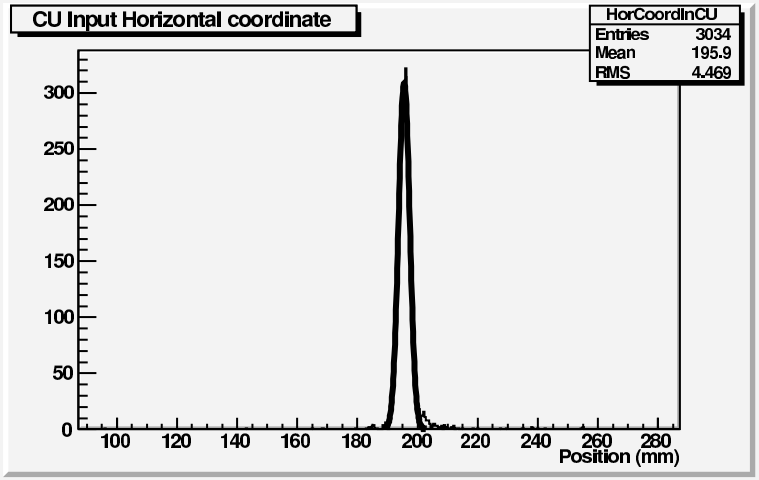

CU Input vertical coordinate
VertCoordInCU
Entries 1584
Mean 37.42
RMS 4.734
Position (mm)

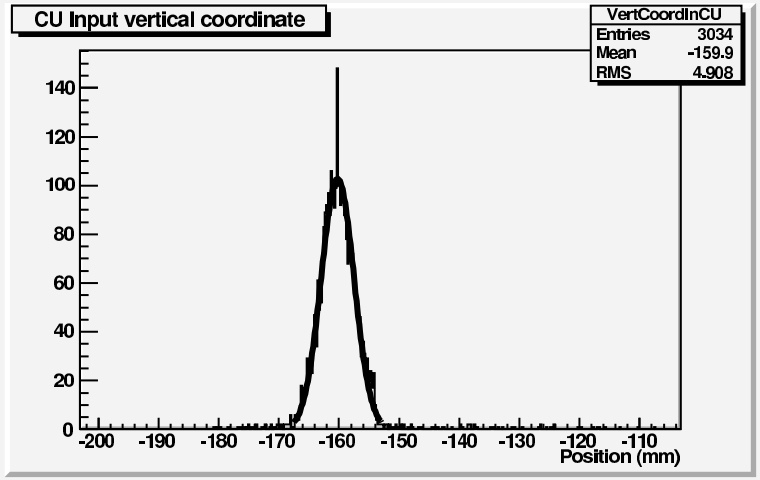

CU Input horizontal angle
HorAngleInCU
Entries 1584
Mean 0.006998
RMS 0.001029
Angle (rad)

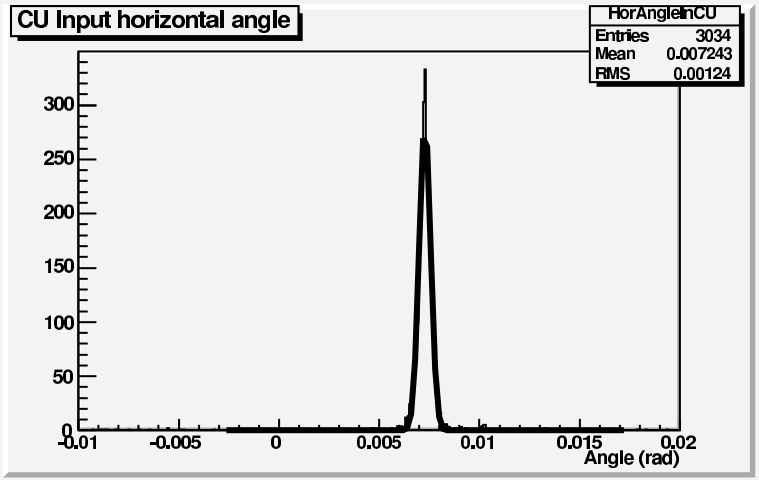

CU Input vertical angle
VertAngleInCU
Entries 1584
Mean 0.005707
RMS 0.0009812
Angle (rad)

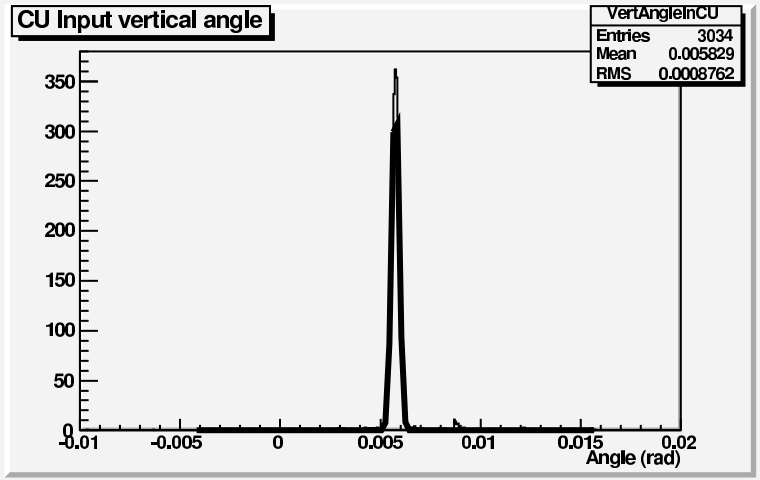

CU Input Beam Spot
SpotCoordInCU
Entries 1584
Mean x 201.9
Mean y 37.47
RMS x 2.969
RMS y 3.148
Vertical Position (mm)
Horizontal Position (mm)

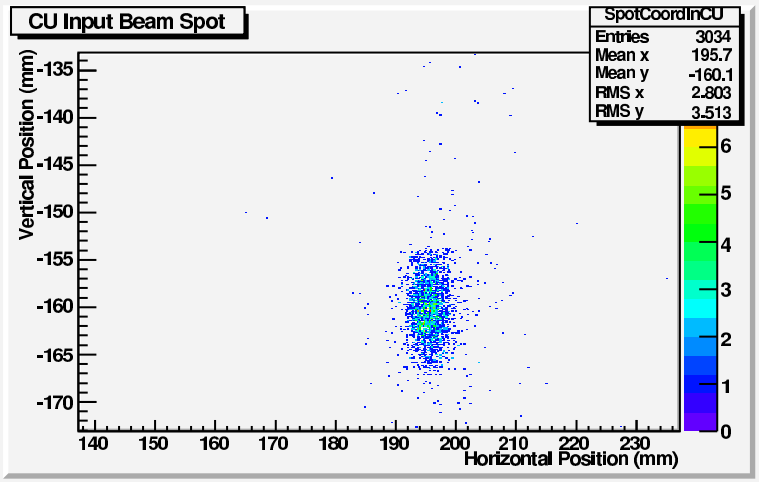

CU Input Beam Spot
SpotAngleInCU
Entries 1584
Mean x 0.00568
Mean y 0.006989
RMS x 0.001306
RMS y 0.001051
Vertical Angle (rad)
Horizontal Angle (rad)

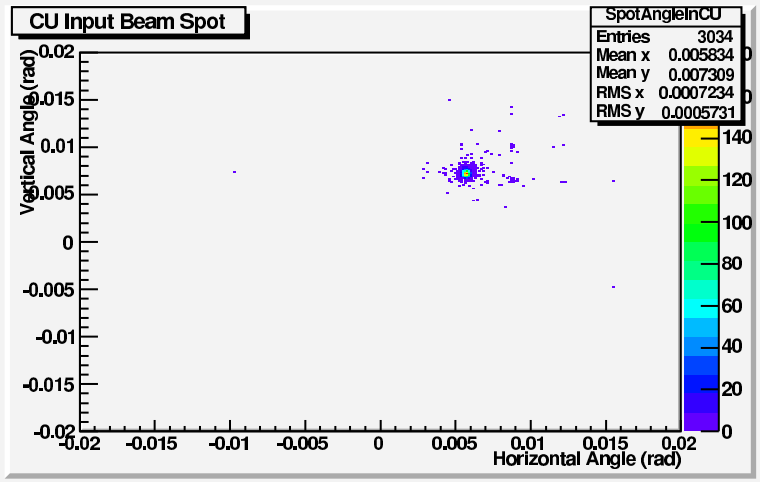

CU Input Horizontal coordinate
HorCoordInCU
Entries 3034
Mean 195.9
RMS 4.469
Position (mm)

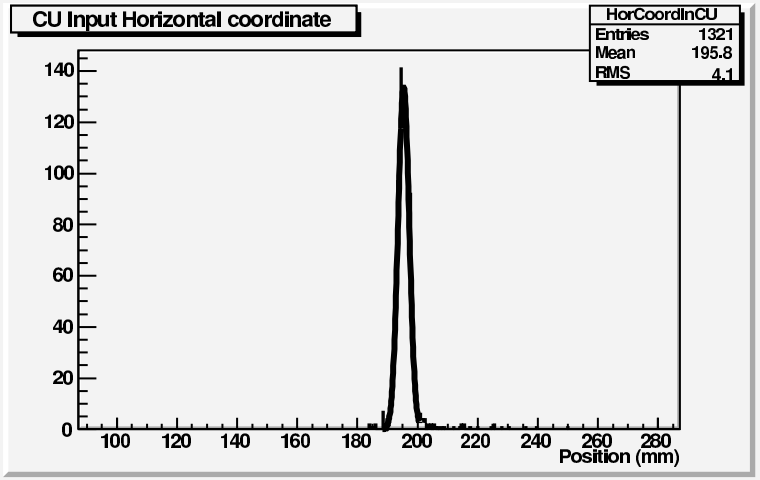

CU Input vertical coordinate
VertCoordInCU
Entries 3034
Mean -159.9
RMS 4.908
Position (mm)

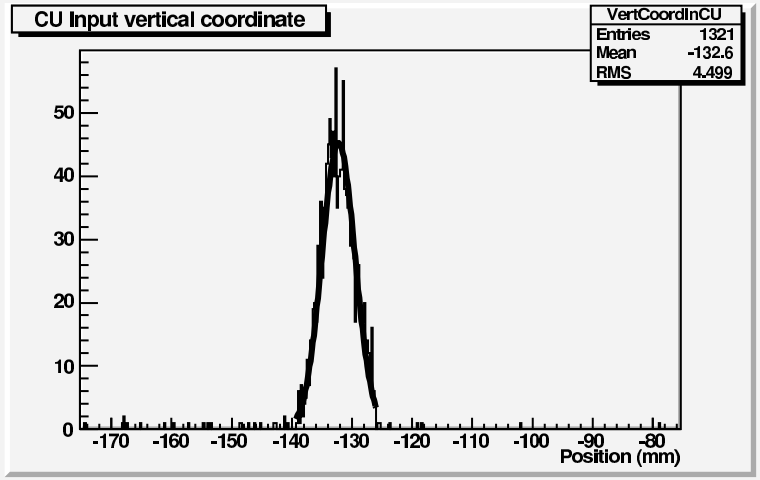

CU Input horizontal angle
HorAngleInCU
Entries 3034
Mean 0.007243
RMS 0.00124
Angle (rad)

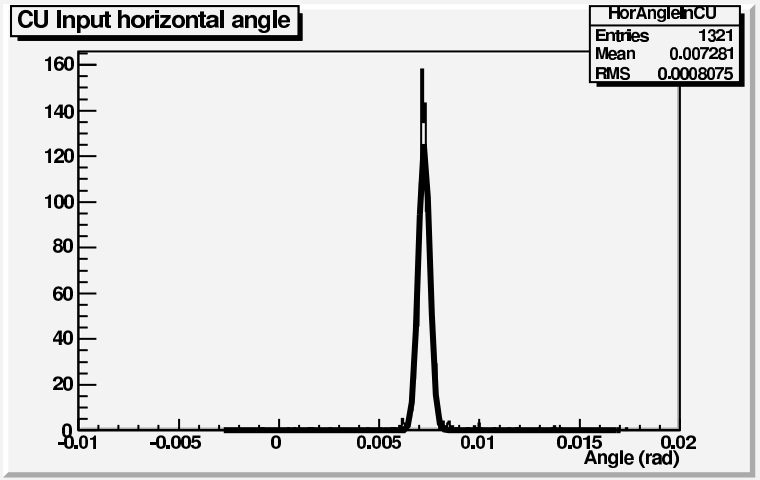

CU Input vertical angle
VertAngleInCU
Entries 3034
Mean 0.005829
RMS 0.0008762
Angle (rad)

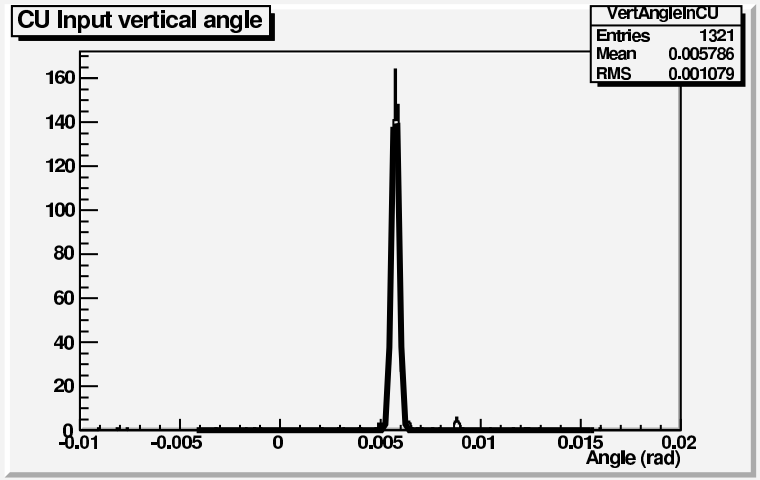

CU Input Beam Spot
SpotCoordInCU
Entries 3034
Mean x 195.7
Mean y -160.1
RMS x 2.803
RMS y 3.513
Vertical Position (mm)
Horizontal Position (mm)

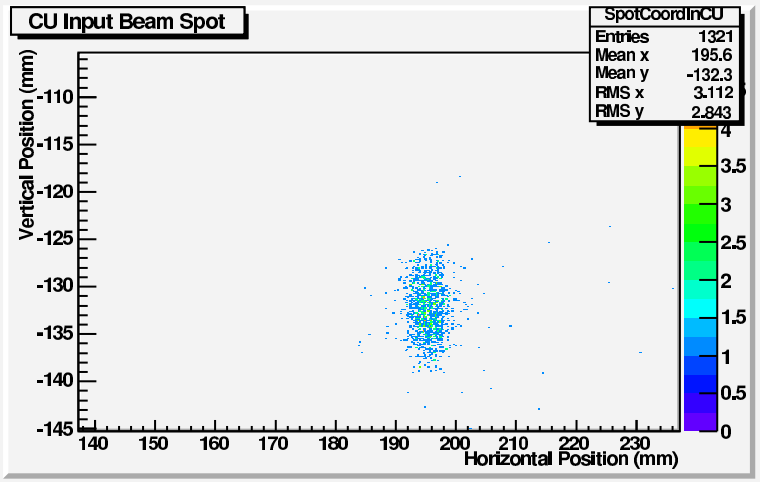

CU Input Beam Spot
SpotAngleInCU
Entries 3034
Mean x 0.005834
Mean y 0.007309
RMS x 0.0007234
RMS y 0.0005731
Vertical Angle (rad)
Horizontal Angle (rad)

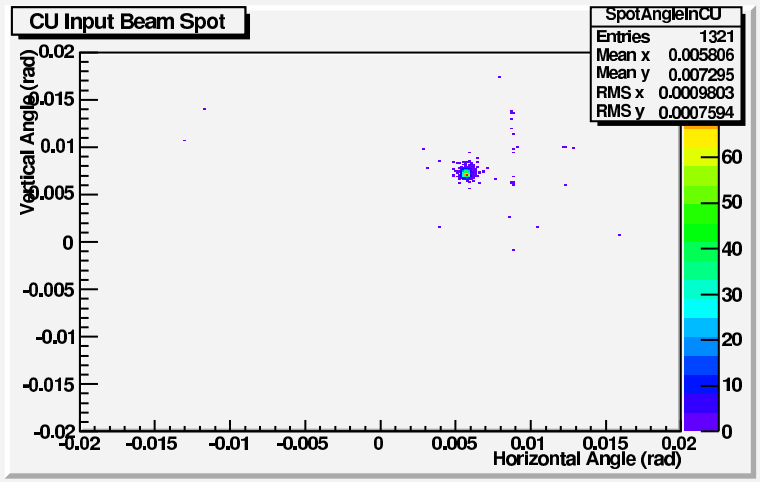

CU Input Horizontal coordinate
HorCoordInCU
Entries 1321
Mean 195.8
RMS 4.1
Position (mm)

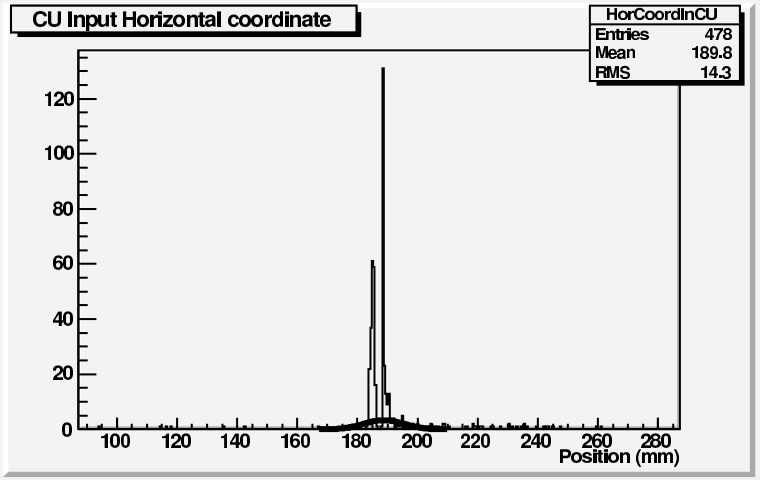

CU Input vertical coordinate
VertCoordInCU
Entries 1321
Mean -132.6
RMS 4.499
Position (mm)

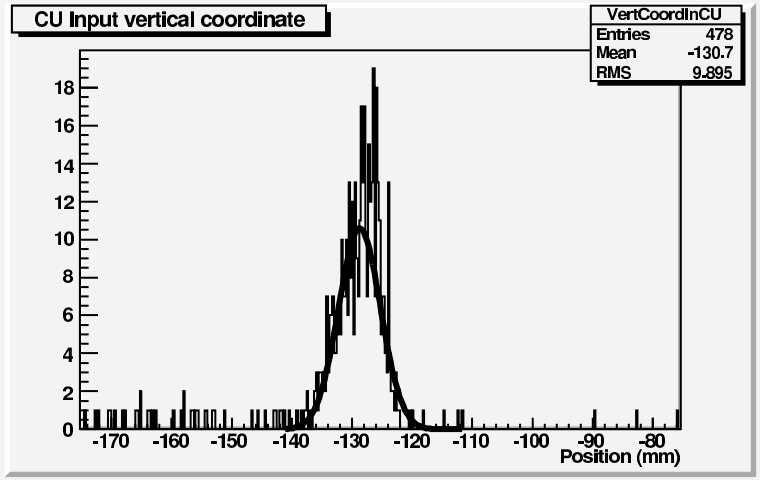

CU Input horizontal angle
HorAngleInCU
Entries 1321
Mean 0.007281
RMS 0.0008075
Angle (rad)

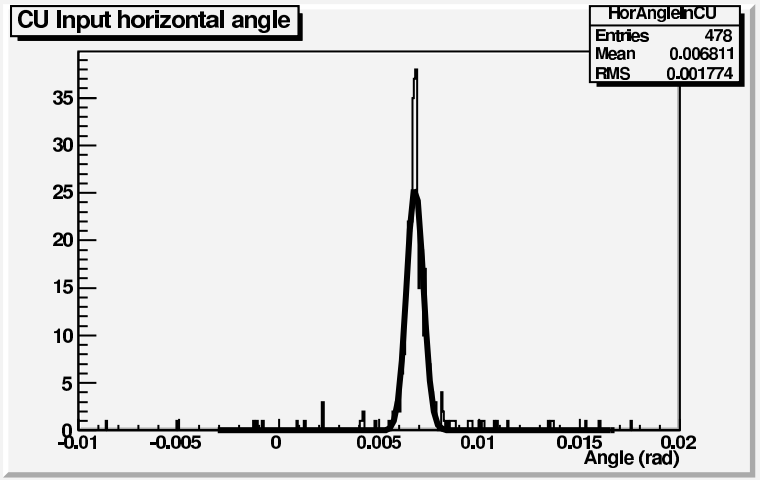

CU Input vertical angle
VertAngleInCU
Entries 1321
Mean 0.005786
RMS 0.001079
Angle (rad)

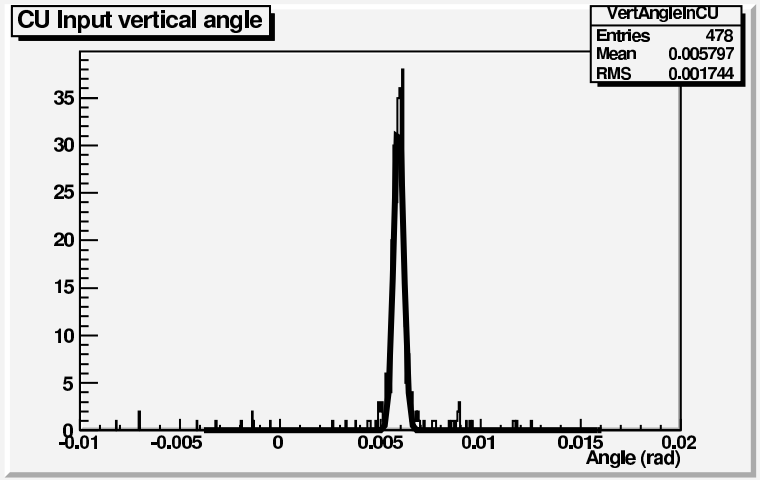

CU Input Beam Spot
SpotCoordInCU
Entries 1321
Mean x 195.6
Mean y -132.3
RMS x 3.112
RMS y 2.843
Vertical Position (mm)
Horizontal Position (mm)

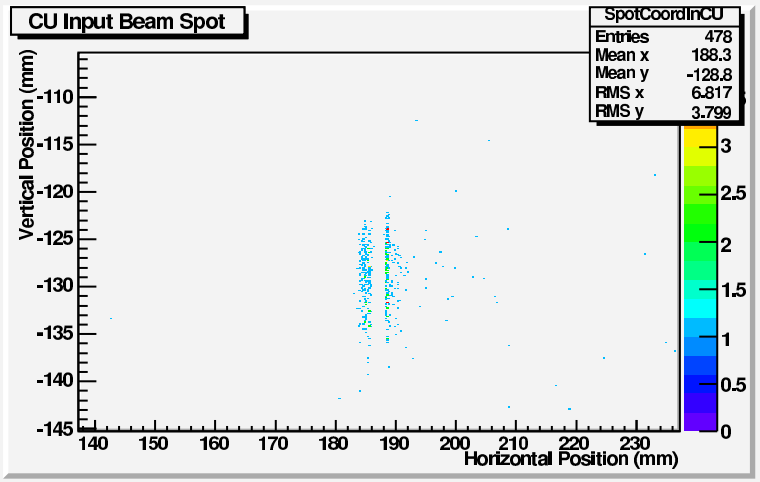

CU Input Beam Spot
SpotAngleInCU
Entries 1321
Mean x 0.005806
Mean y 0.007295
RMS x 0.0009803
RMS y 0.0007594
Vertical Angle (rad)
Horizontal Angle (rad)

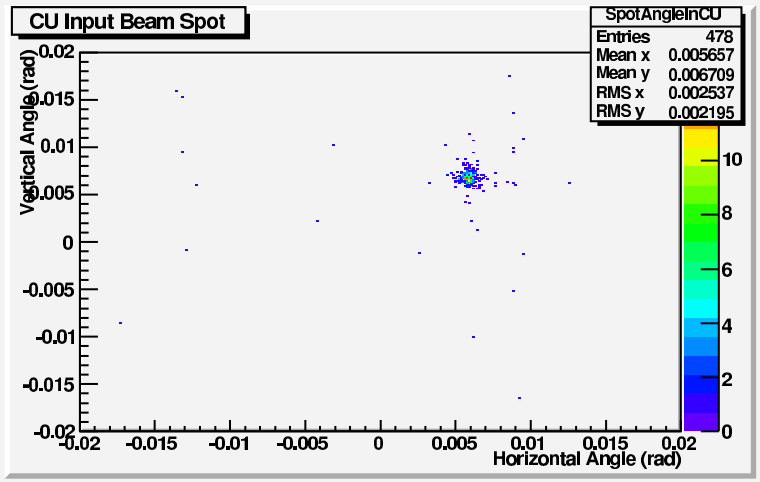

CU Input Horizontal coordinate
HorCoordInCU
Entries 478
Mean 189.8
RMS 14.3
Position (mm)

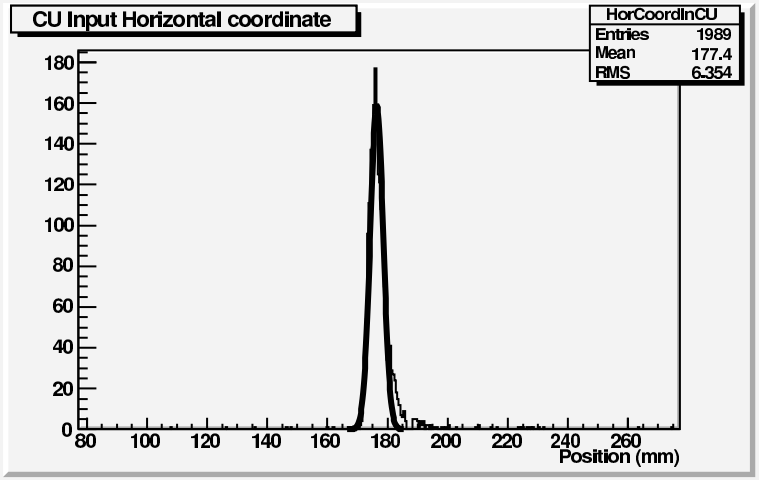

CU Input vertical coordinate
VertCoordInCU
Entries 478
Mean -130.7
RMS 9.895
Position (mm)

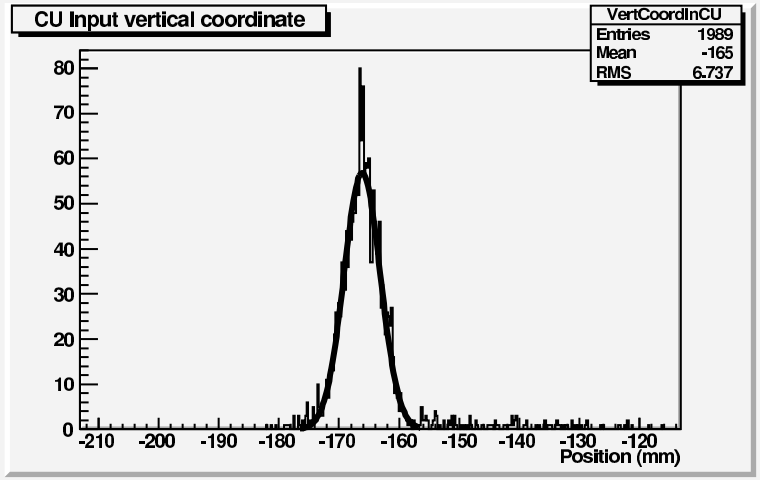

CU Input horizontal angle
HorAngleInCU
Entries 478
Mean 0.006811
RMS 0.001774
Angle (rad)

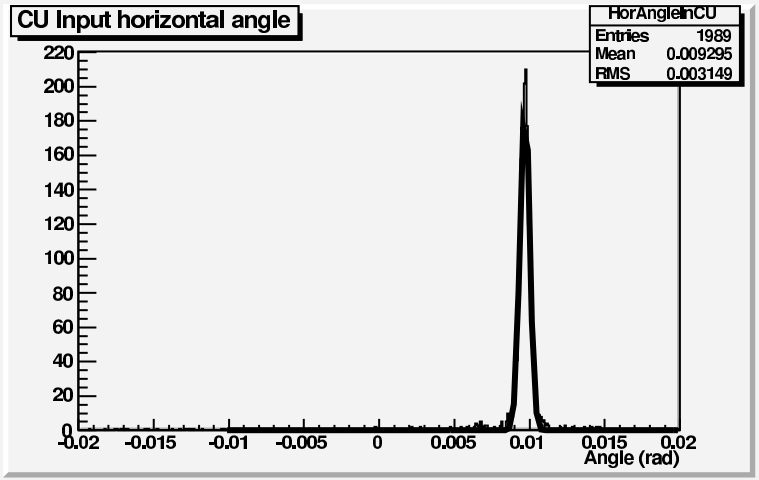

CU Input vertical angle
VertAngleInCU
Entries 478
Mean 0.005797
RMS 0.001744
Angle (rad)

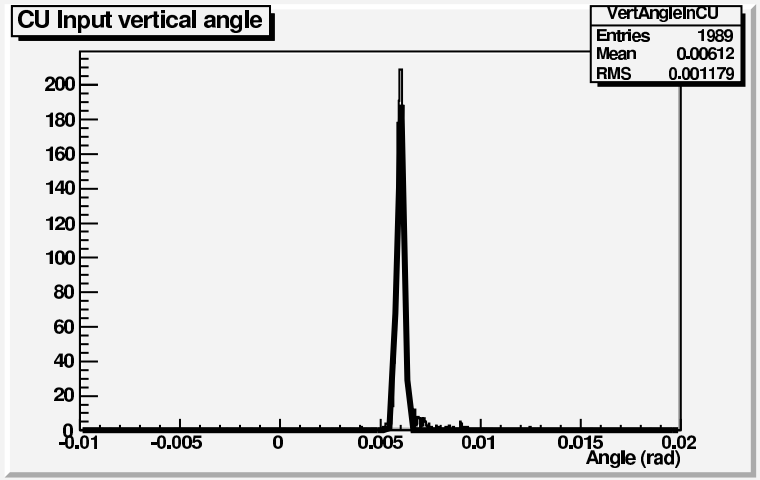

CU Input Beam Spot
SpotCoordInCU
Entries 478
Mean x 188.3
Mean y -128.8
RMS x 6.817
RMS y 3.799
Vertical Position (mm)
Horizontal Position (mm)

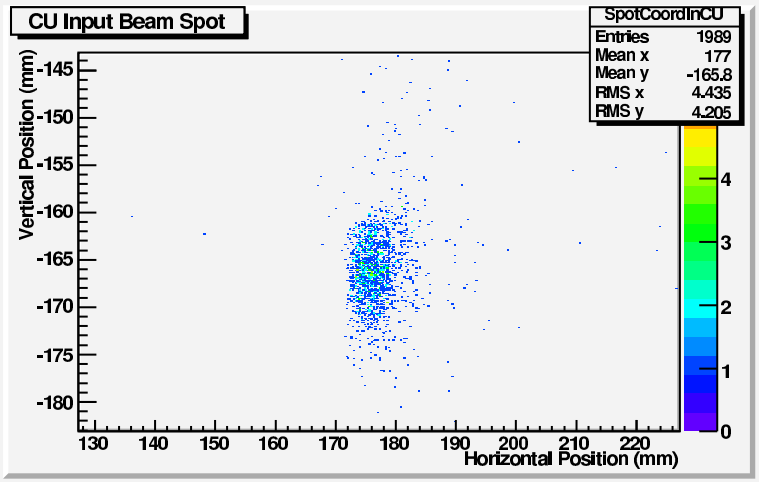

CU Input Beam Spot
SpotAngleInCU
Entries 478
Mean x 0.005657
Mean y 0.006709
RMS x 0.002537
RMS y 0.002195
Vertical Angle (rad)
Horizontal Angle (rad)

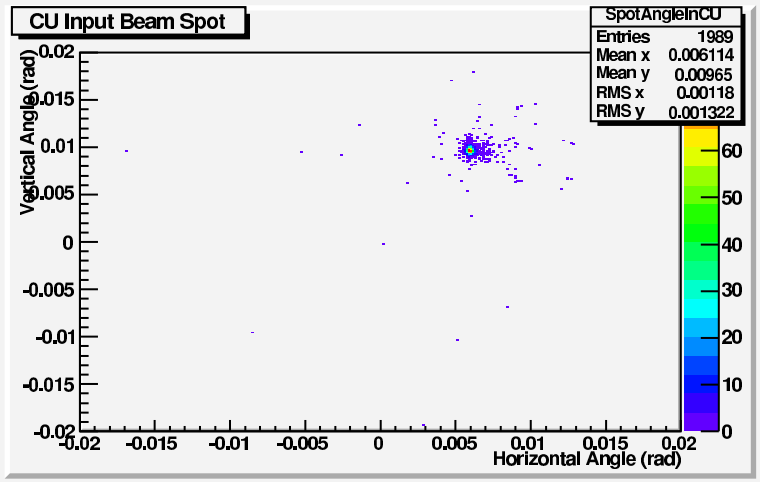

CU Input Horizontal coordinate
HorCoordInCU
Entries 1989
Mean 177.4
RMS 6.354
Position (mm)

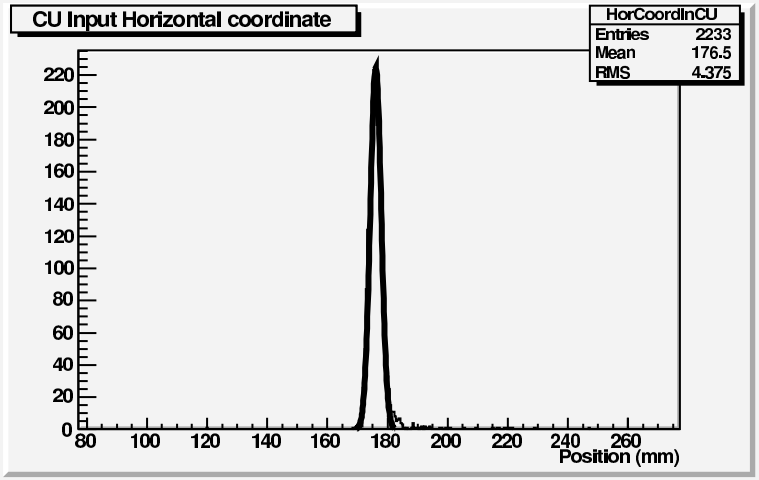

CU Input vertical coordinate
VertCoordInCU
Entries 1989
Mean -165
RMS 6.737
Position (mm)

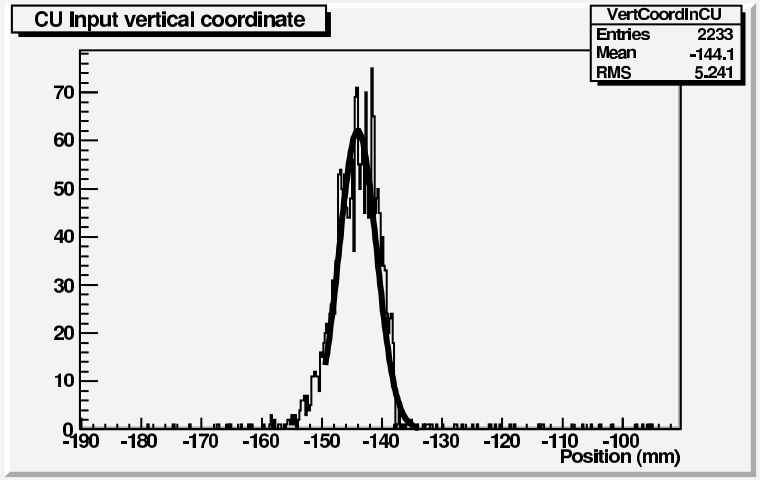

CU Input horizontal angle
HorAngleInCU
Entries 1989
Mean 0.009295
RMS 0.003149
Angle (rad)

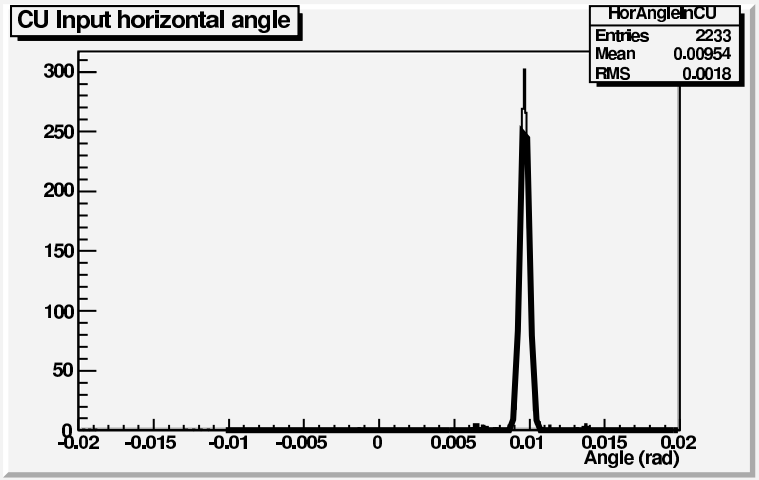

CU Input vertical angle
VertAngleInCU
Entries 1989
Mean 0.00612
RMS 0.001179
Angle (rad)

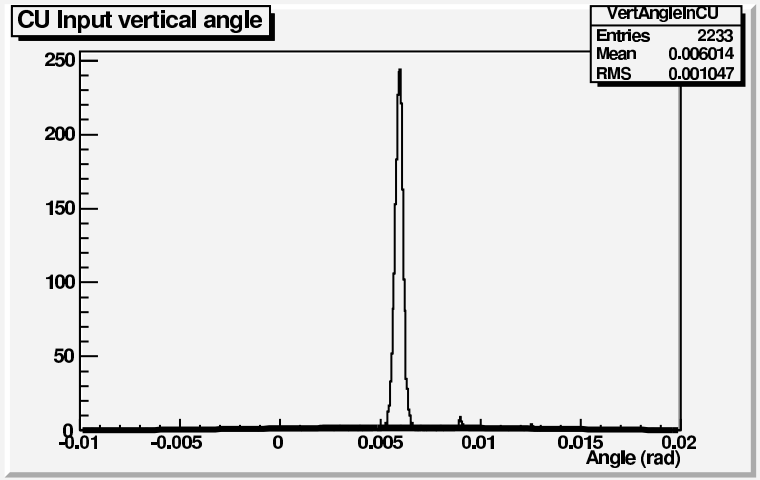

CU Input Beam Spot
SpotCoordInCU
Entries 1989
Mean x 177
Mean y -165.8
RMS x 4.435
RMS y 4.205
Vertical Position (mm)
Horizontal Position (mm)

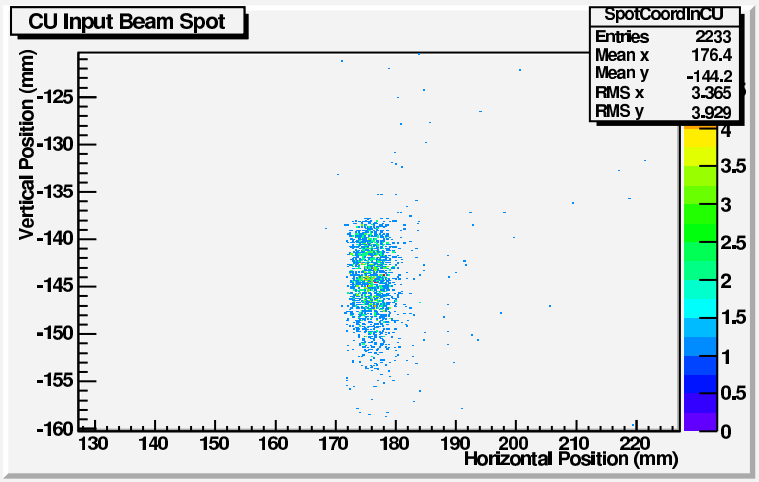

CU Input Beam Spot
SpotAngleInCU
Entries 1989
Mean x 0.006114
Mean y 0.00965
RMS x 0.00118
RMS y 0.001322
Vertical Angle (rad)
Horizontal Angle (rad)

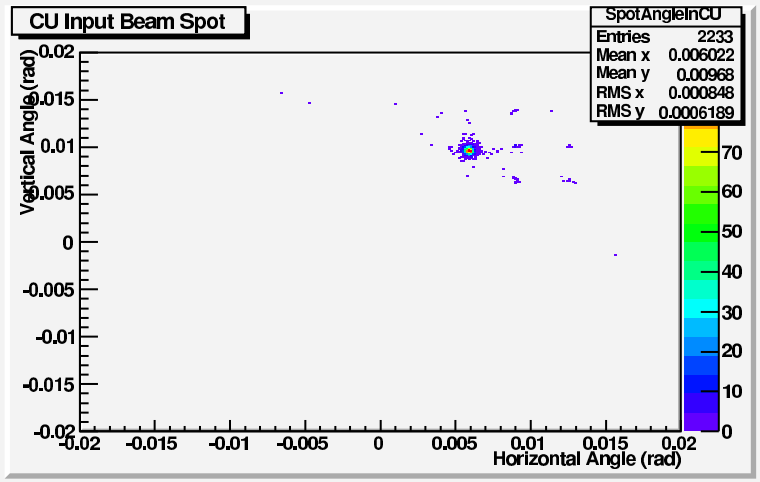

CU Input Horizontal coordinate
HorCoordInCU
Entries 2233
Mean 176.5
RMS 4.375
Position (mm)

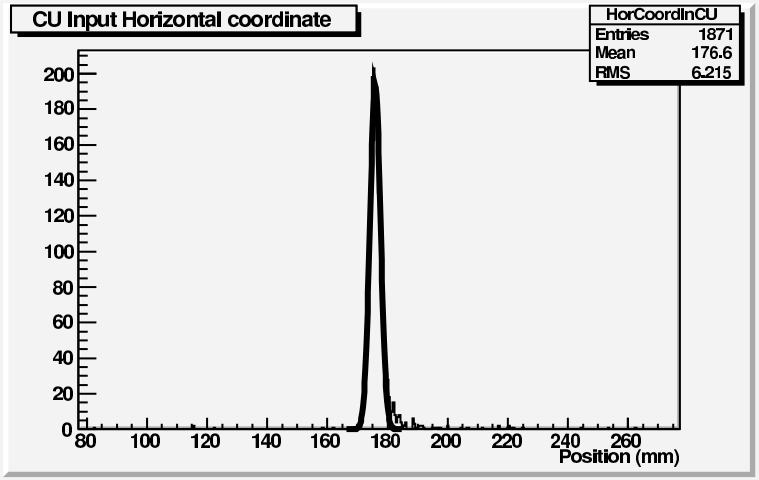

CU Input vertical coordinate
VertCoordInCU
Entries 2233
Mean -144.1
RMS 5.241
Position (mm)

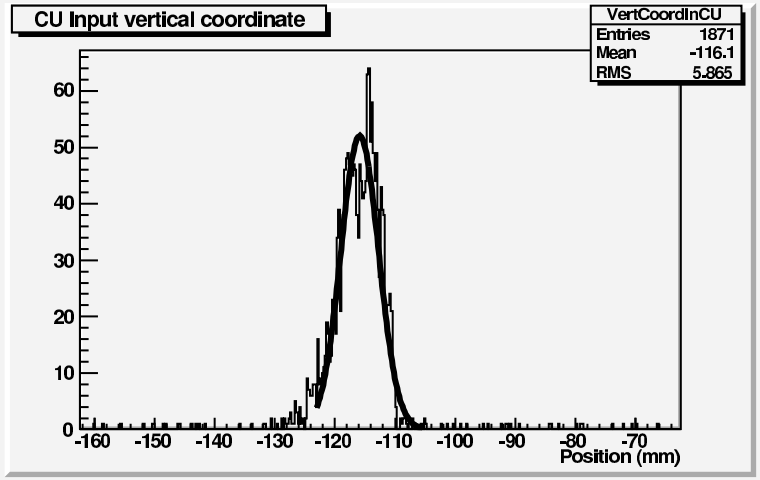

CU Input horizontal angle
HorAngleInCU
Entries 2233
Mean 0.00954
RMS 0.0018
Angle (rad)

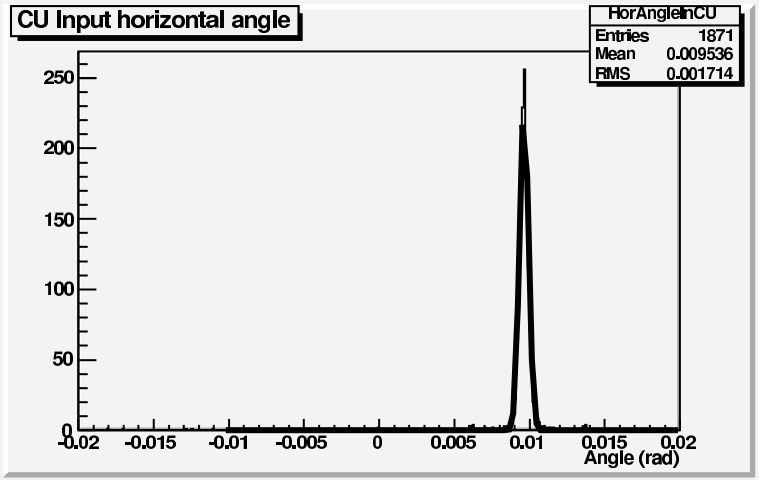

CU Input vertical angle
VertAngleInCU
Entries 2233
Mean 0.006014
RMS 0.001047
Angle (rad)

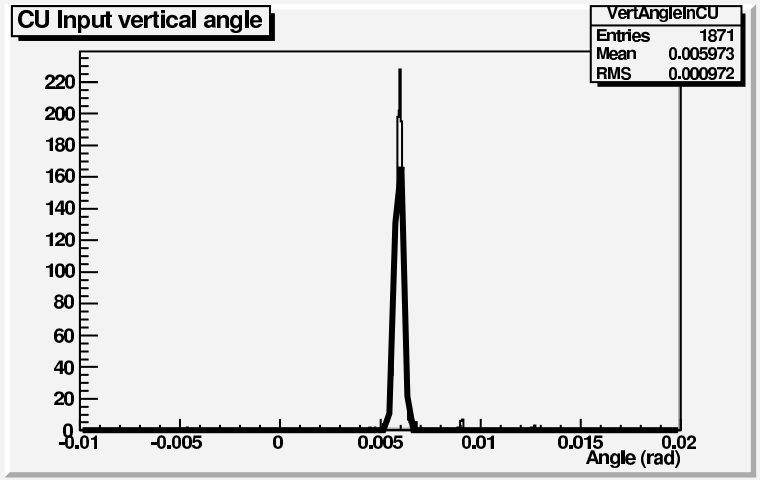

CU Input Beam Spot
SpotCoordInCU
Entries 2233
Mean x 176.4
Mean y -144.2
RMS x 3.365
RMS y 3.929
Vertical Position (mm)
Horizontal Position (mm)

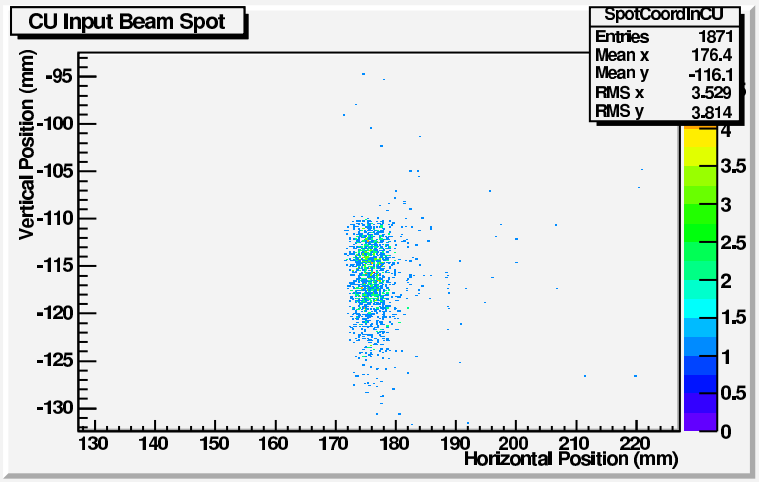

CU Input Beam Spot
SpotAngleInCU
Entries 2233
Mean x 0.006022
Mean y 0.00968
RMS x 0.000848
RMS y 0.0006189
Vertical Angle (rad)
Horizontal Angle (rad)

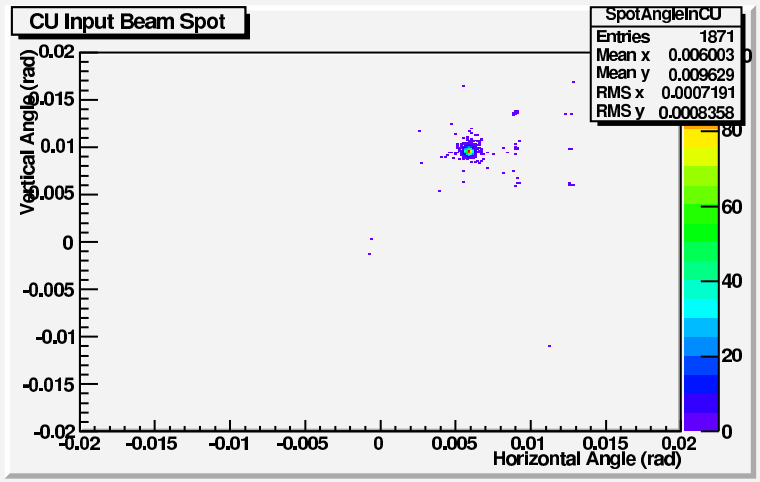

CU Input Horizontal coordinate
HorCoordInCU
Entries 1871
Mean 176.6
RMS 6.215
Position (mm)

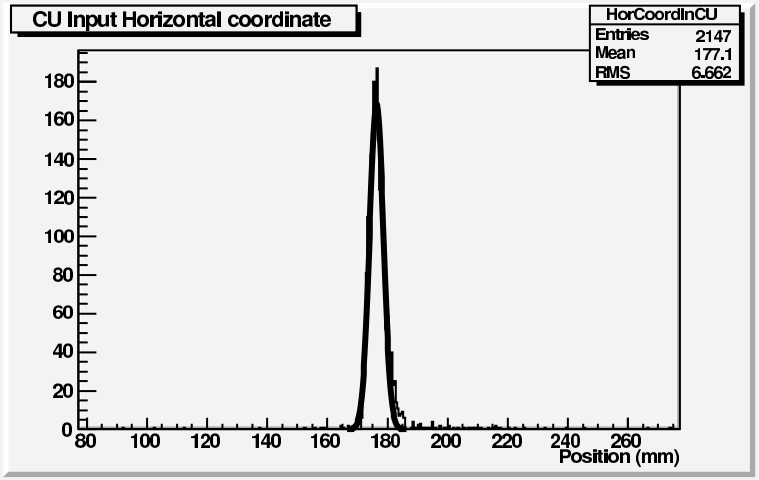

CU Input vertical coordinate
VertCoordInCU
Entries 1871
Mean -116.1
RMS 5.865
Position (mm)

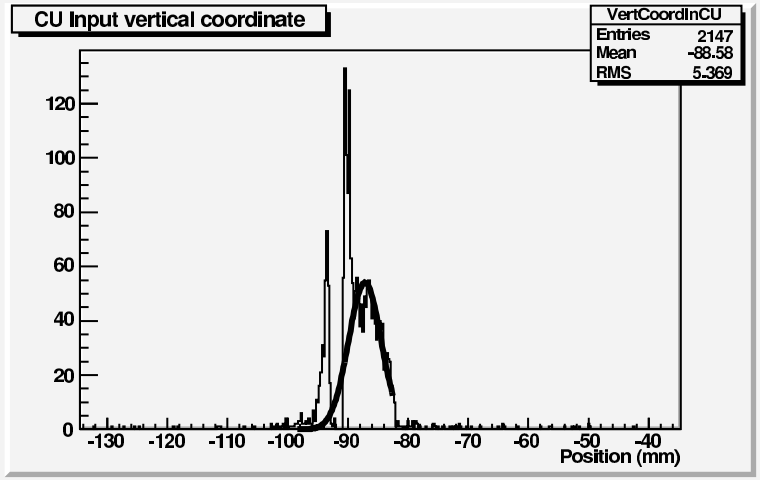

CU Input horizontal angle
HorAngleInCU
Entries 1871
Mean 0.009536
RMS 0.001714
Angle (rad)

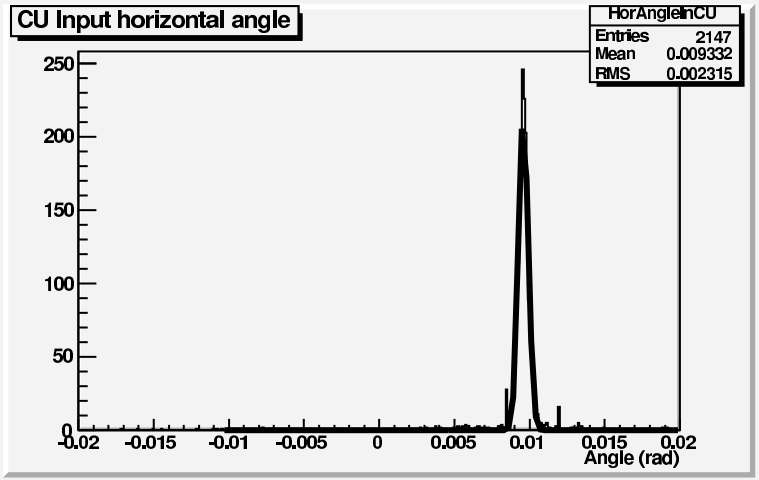

CU Input vertical angle
VertAngleInCU
Entries 1871
Mean 0.005973
RMS 0.000972
Angle (rad)

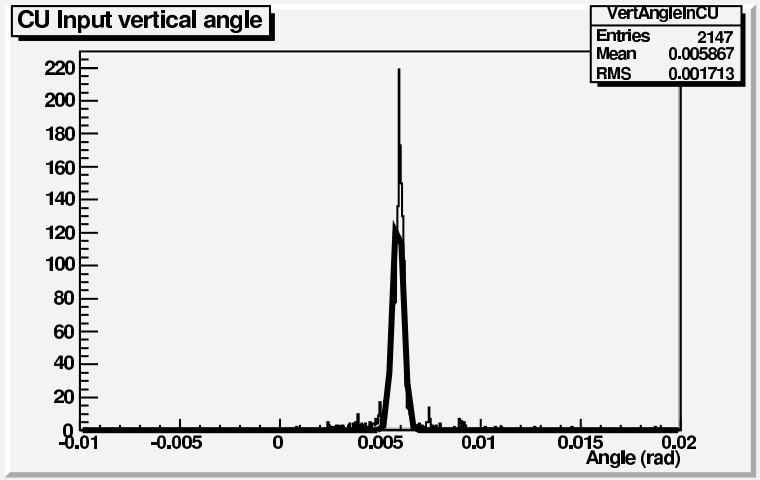

CU Input Beam Spot
SpotCoordInCU
Entries 1871
Mean x 176.4
Mean y -116.1
RMS x 3.529
RMS y 3.814
Vertical Position (mm)
Horizontal Position (mm)

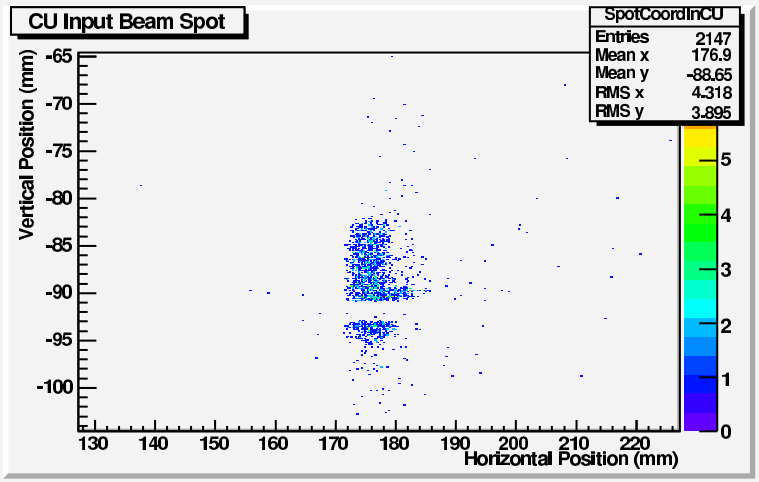

CU Input Beam Spot
SpotAngleInCU
Entries 1871
Mean x 0.006003
Mean y 0.009629
RMS x 0.0007191
RMS y 0.0008358
Vertical Angle (rad)
Horizontal Angle (rad)

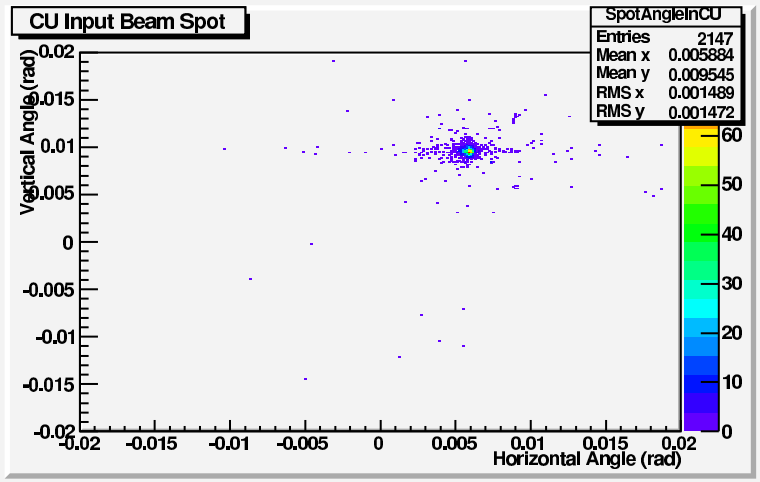

CU Input Horizontal coordinate
HorCoordInCU
Entries 2147
Mean 177.1
RMS 6.662
Position (mm)

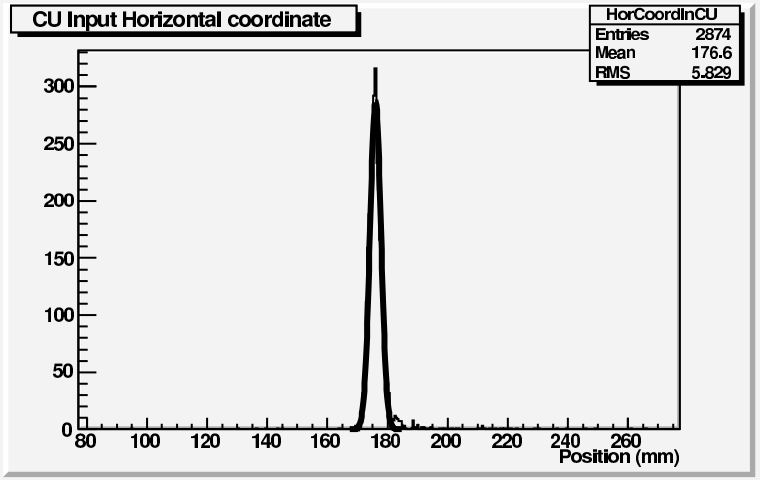

CU Input vertical coordinate
VertCoordInCU
Entries 2147
Mean -88.58
RMS 5.369
Position (mm)

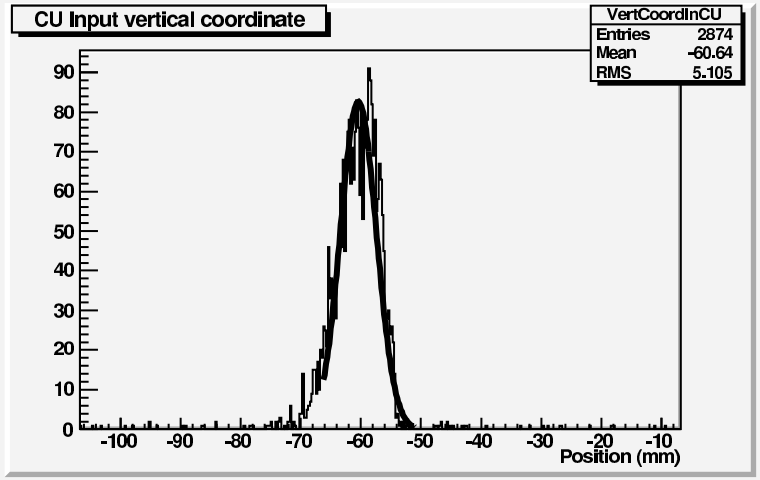

CU Input horizontal angle
HorAngleInCU
Entries 2147
Mean 0.009332
RMS 0.002315
Angle (rad)

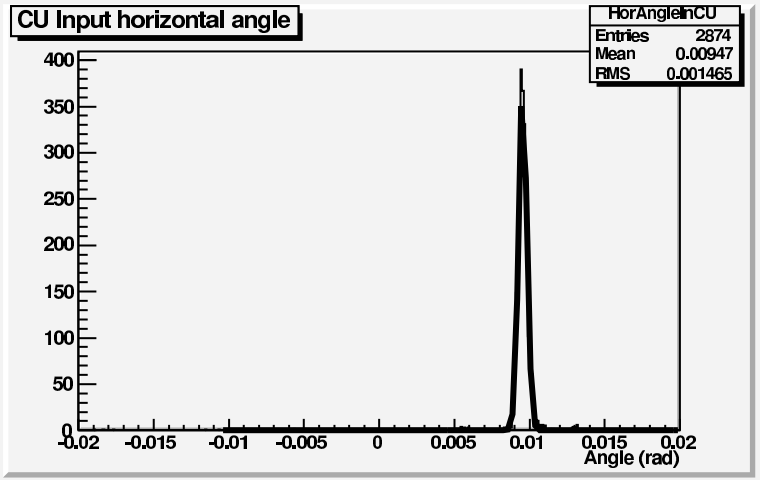

CU Input vertical angle
VertAngleInCU
Entries 2147
Mean 0.005867
RMS 0.001713
Angle (rad)

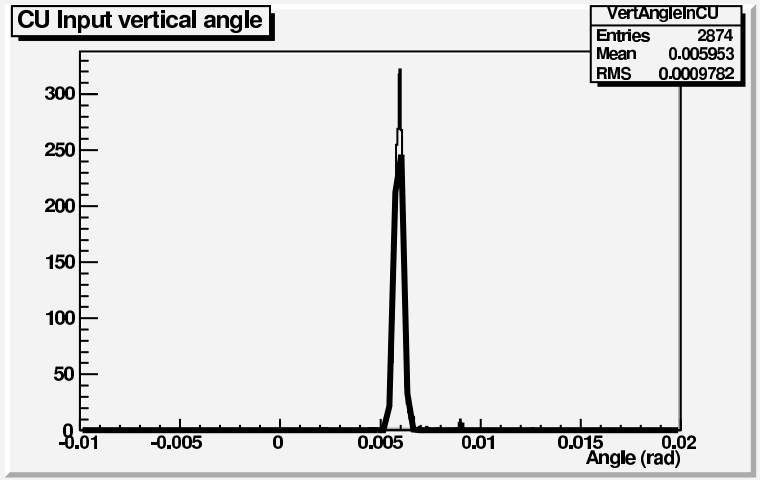

CU Input Beam Spot
SpotCoordInCU
Entries 2147
Mean x 176.9
Mean y -88.65
RMS x 4.318
RMS y 3.895
Vertical Position (mm)
Horizontal Position (mm)

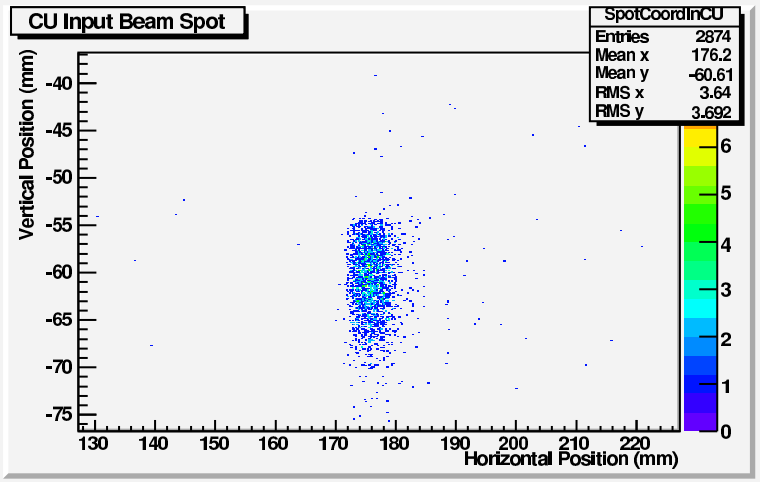

CU Input Beam Spot
SpotAngleInCU
Entries 2147
Mean x 0.005884
Mean y 0.009545
RMS x 0.001489
RMS y 0.001472
Vertical Angle (rad)
Horizontal Angle (rad)

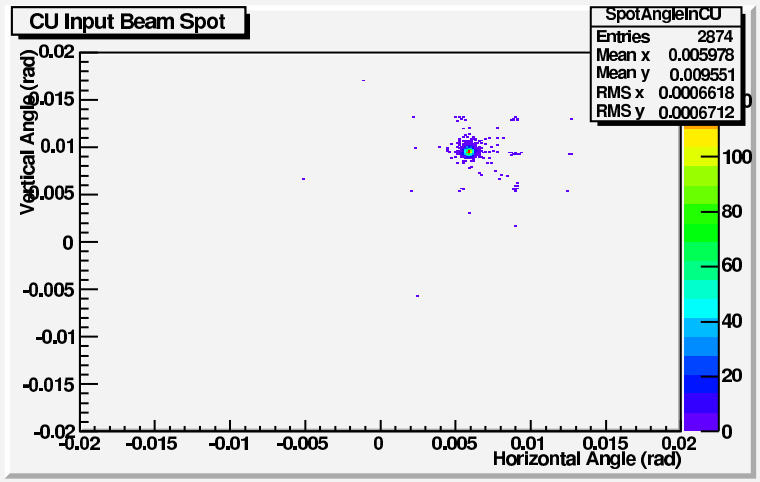

CU Input Horizontal coordinate
HorCoordInCU
Entries 2874
Mean 176.6
RMS 5.829
Position (mm)

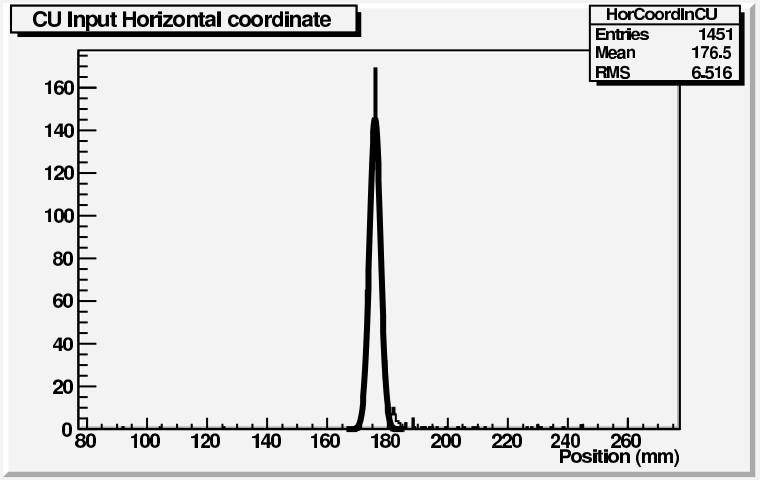

CU Input vertical coordinate
VertCoordInCU
Entries 2874
Mean -60.64
RMS 5.105
Position (mm)

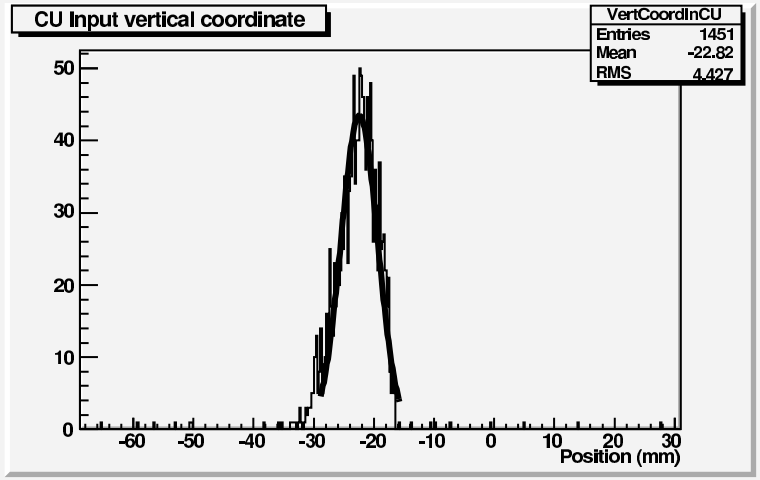

CU Input horizontal angle
HorAngleInCU
Entries 2874
Mean 0.00947
RMS 0.001465
Angle (rad)

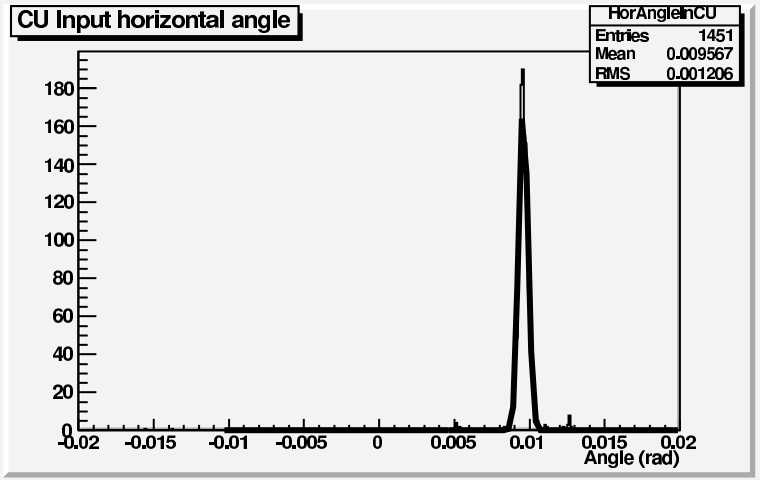

CU Input vertical angle
VertAngleInCU
Entries 2874
Mean 0.005953
RMS 0.0009782
Angle (rad)

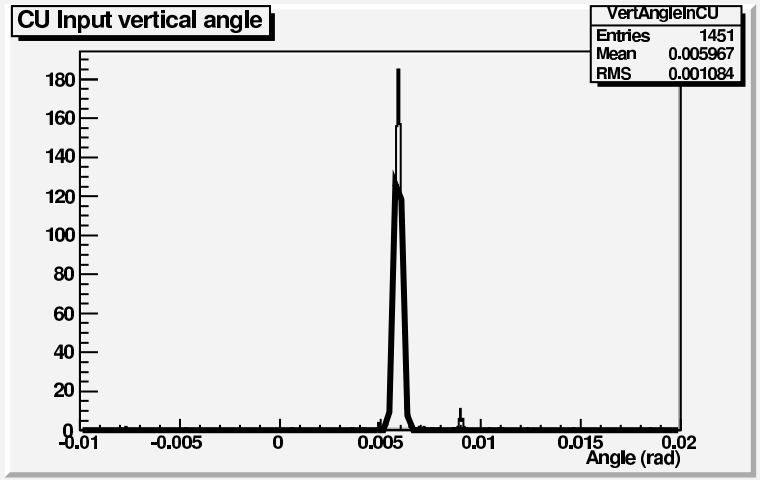

CU Input Beam Spot
SpotCoordInCU
Entries 2874
Mean x 176.2
Mean y -60.61
RMS x 3.64
RMS y 3.692
Vertical Position (mm)
Horizontal Position (mm)

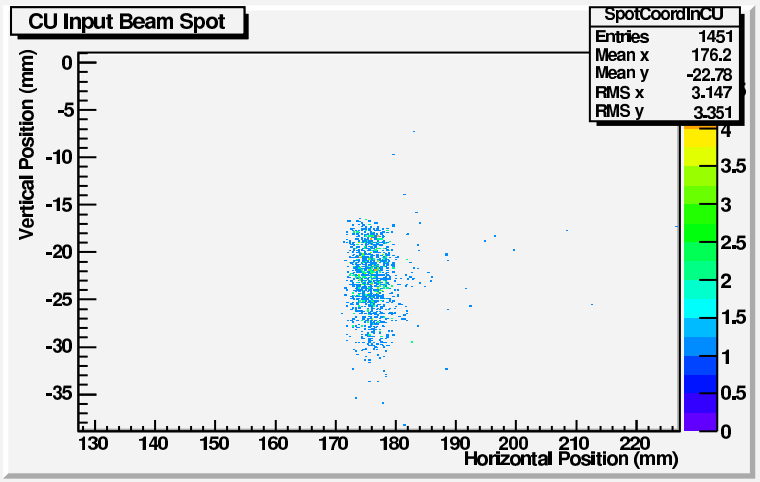

CU Input Beam Spot
SpotAngleInCU
Entries 2874
Mean x 0.005978
Mean y 0.009551
RMS x 0.0006618
RMS y 0.0006712
Vertical Angle (rad)
Horizontal Angle (rad)

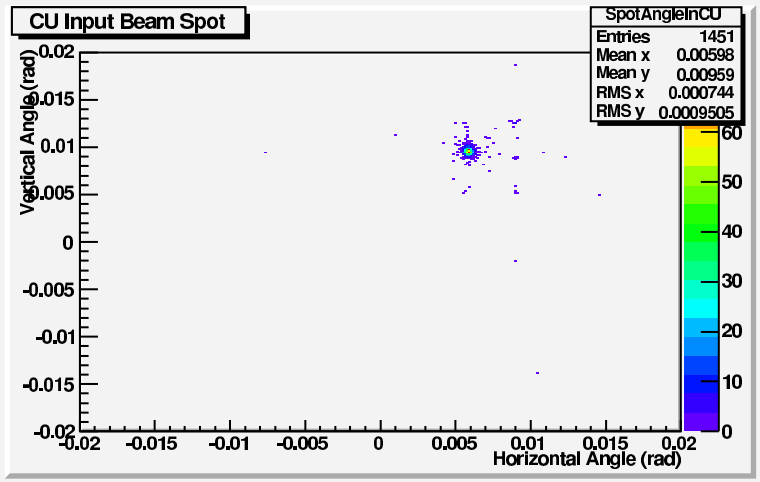

CU Input Horizontal coordinate
HorCoordInCU
Entries 1451
Mean 176.5
RMS 6.516
Position (mm)

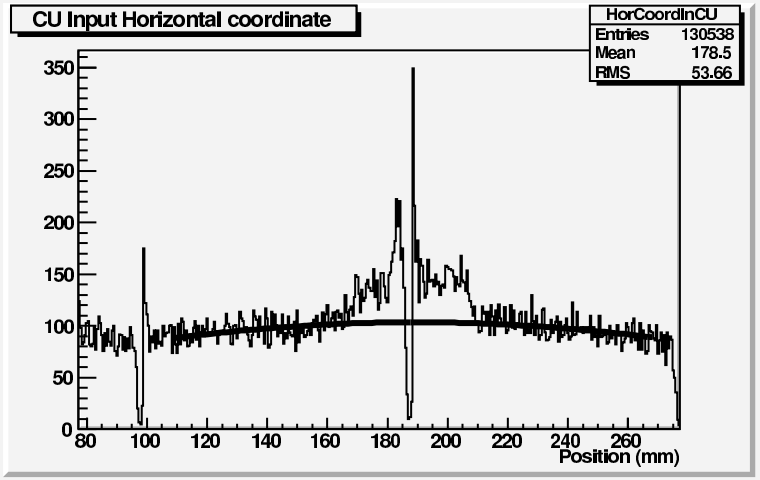

CU Input vertical coordinate
VertCoordInCU
Entries 1451
Mean -22.82
RMS 4.427
Position (mm)

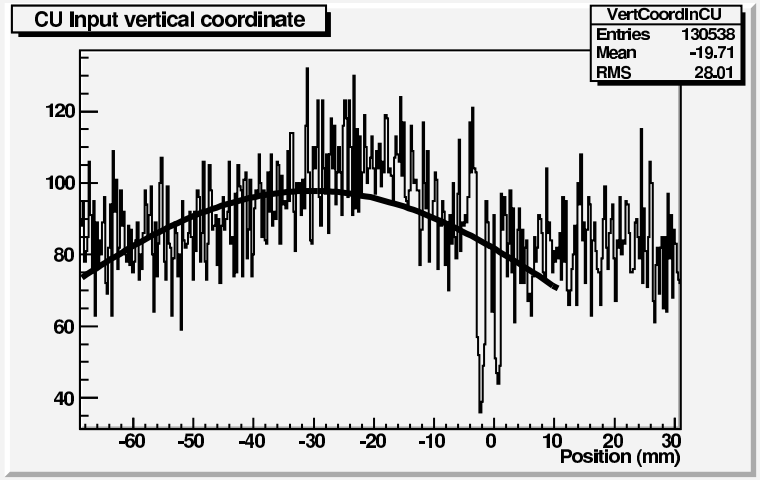

CU Input horizontal angle
HorAngleInCU
Entries 1451
Mean 0.009567
RMS 0.001206
Angle (rad)

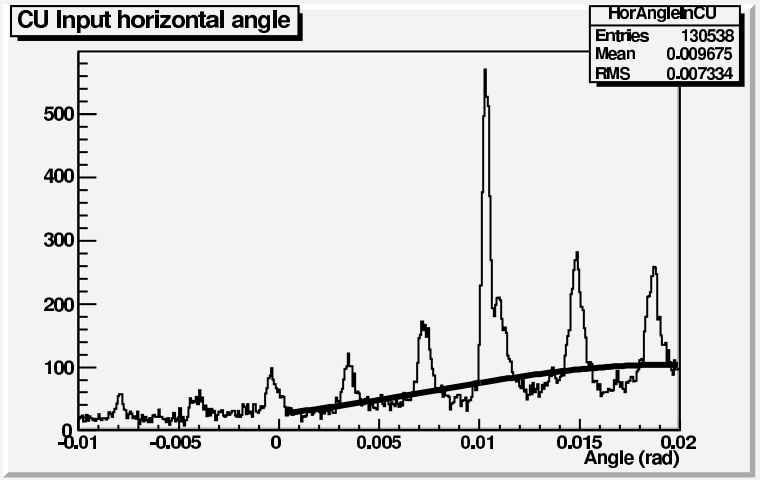

CU Input vertical angle
VertAngleInCU
Entries 1451
Mean 0.005967
RMS 0.001084
Angle (rad)

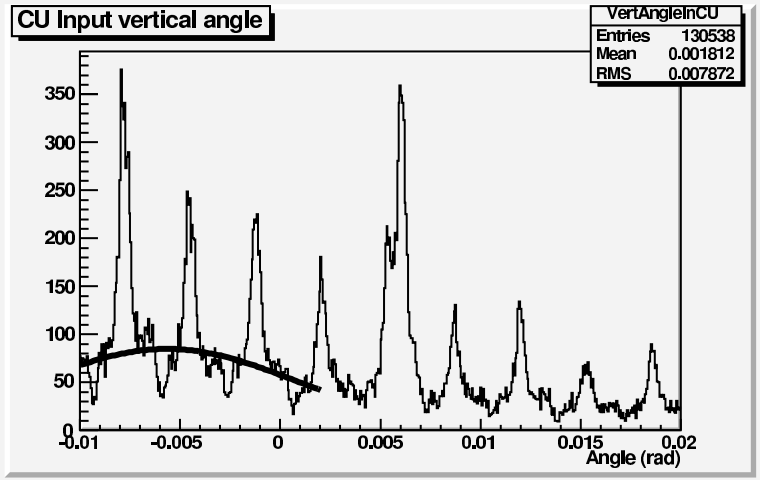

CU Input Beam Spot
SpotCoordInCU
Entries 1451
Mean x 176.2
Mean y -22.78
RMS x 3.147
RMS y 3.351
Vertical Position (mm)
Horizontal Position (mm)

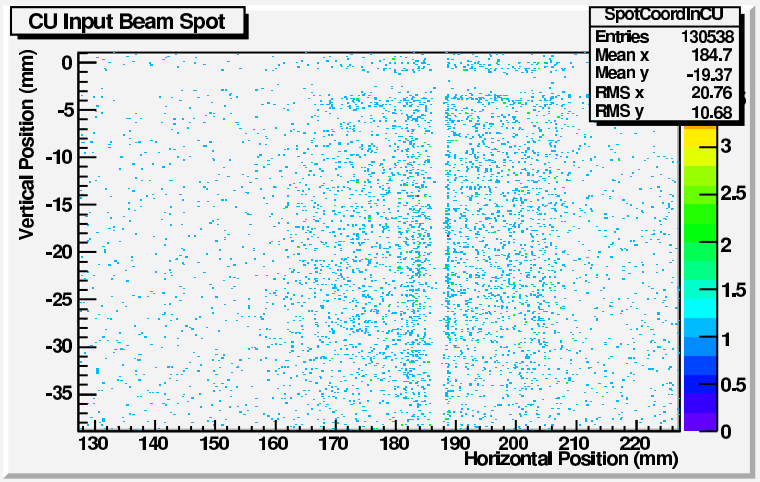

CU Input Beam Spot
SpotAngleInCU
Entries 1451
Mean x 0.00598
Mean y 0.00959
RMS x 0.000744
RMS y 0.0009505
Vertical Angle (rad)
Horizontal Angle (rad)

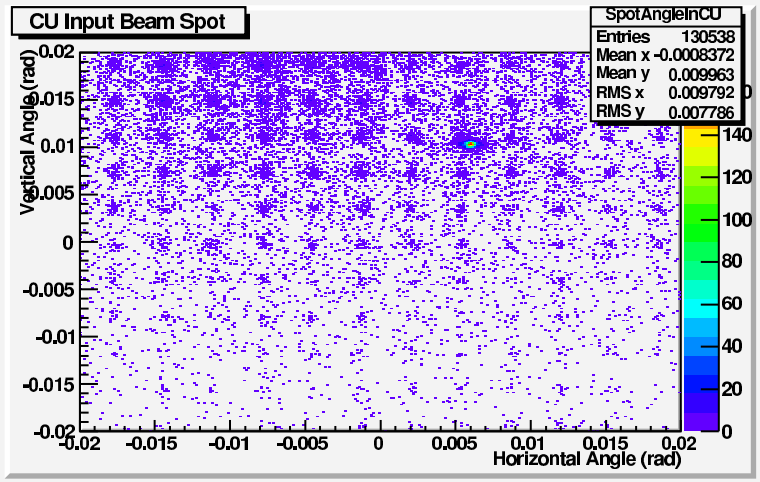

CU Input Horizontal coordinate
HorCoordInCU
Entries 130538
Mean 178.5
RMS 53.66
Position (mm)

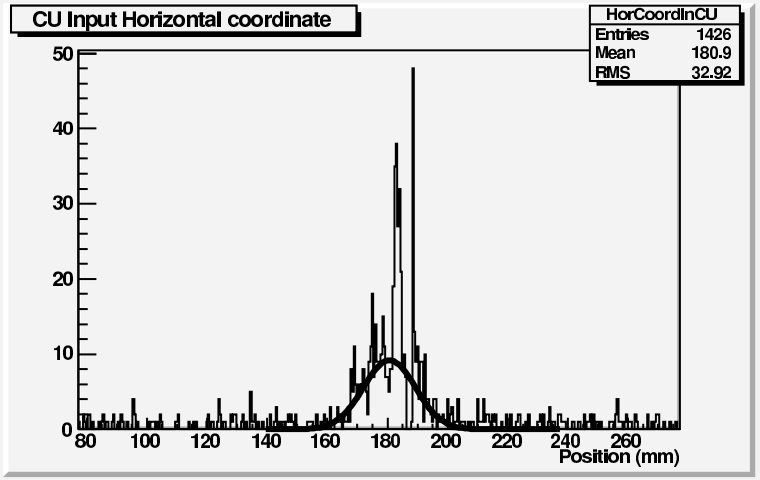

CU Input vertical coordinate
VertCoordInCU
Entries 130538
Mean -19.71
RMS 28.01
Position (mm)

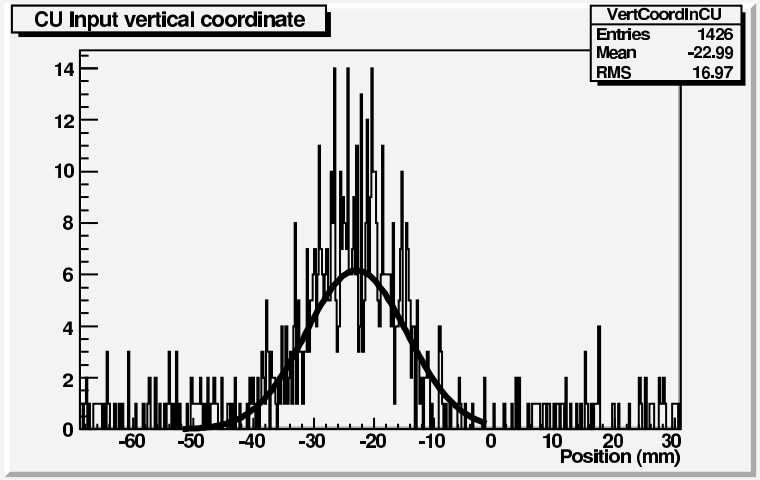

CU Input horizontal angle
HorAngleInCU
Entries 130538
Mean 0.009675
RMS 0.007334
Angle (rad)

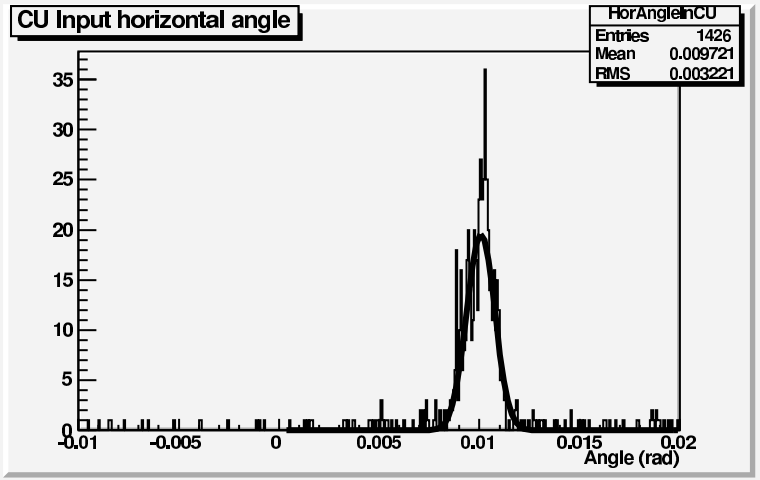

CU Input vertical angle
VertAngleInCU
Entries 130538
Mean 0.001812
RMS 0.007872
Angle (rad)

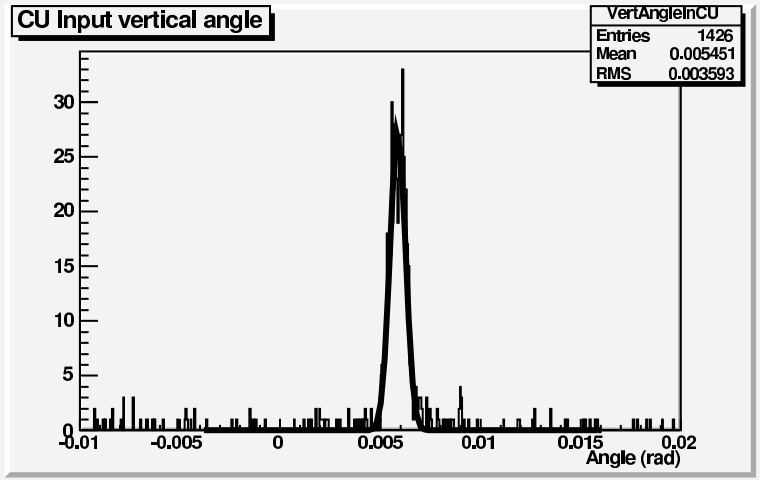

CU Input Beam Spot
SpotCoordInCU
Entries 130538
Mean x 184.7
Mean y -19.37
RMS x 20.76
RMS y 10.68
Vertical Position (mm)
Horizontal Position (mm)

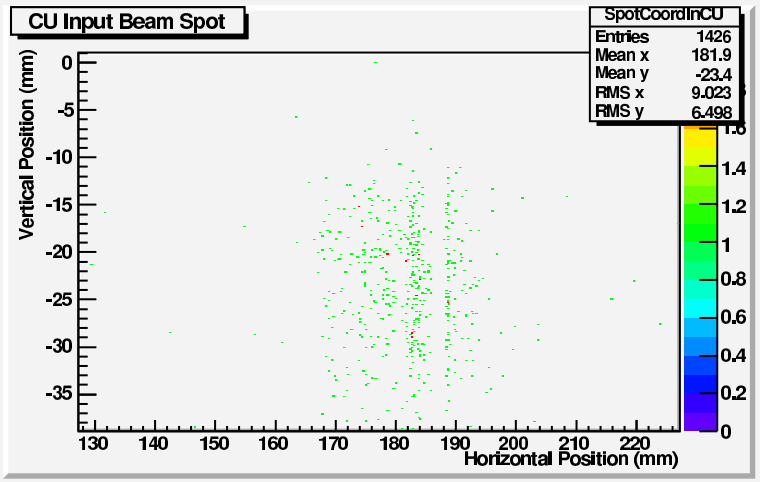

CU Input Beam Spot
SpotAngleInCU
Entries 130538
Mean x -0.0008372
Mean y 0.009963
RMS x 0.009792
RMS y 0.007786
Vertical Angle (rad)
Horizontal Angle (rad)

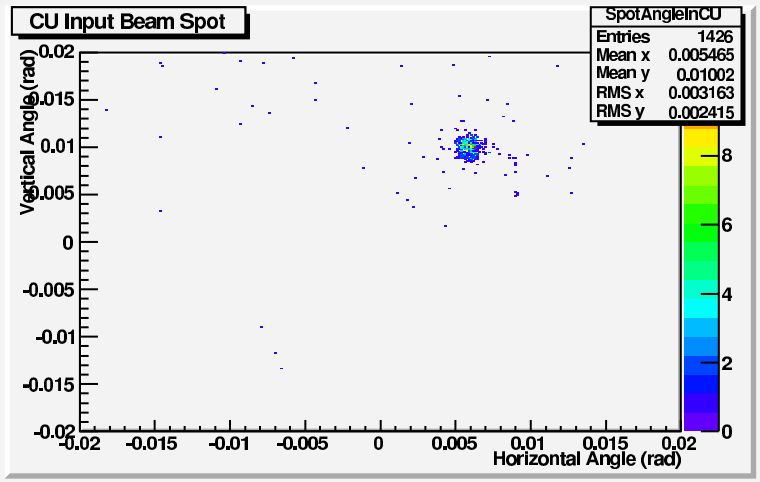

CU Input Horizontal coordinate
HorCoordInCU
Entries 1426
Mean 180.9
RMS 32.92
Position (mm)

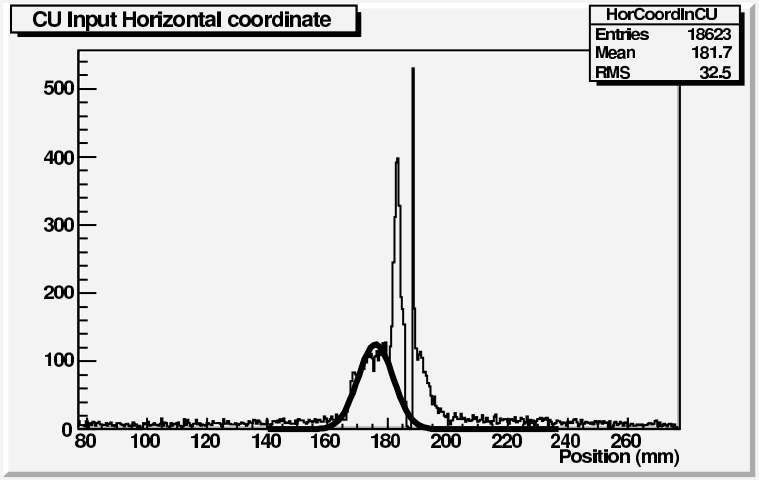

CU Input vertical coordinate
VertCoordInCU
Entries 1426
Mean -22.99
RMS 16.97
Position (mm)

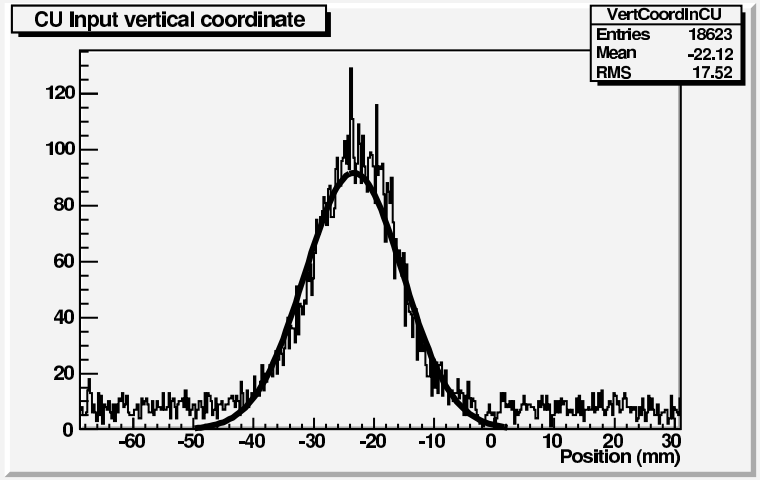

CU Input horizontal angle
HorAngleInCU
Entries 1426
Mean 0.009721
RMS 0.003221
Angle (rad)

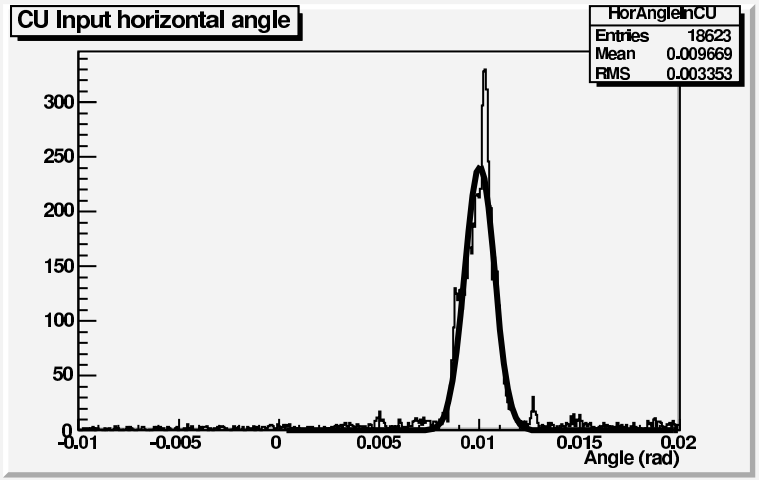

CU Input vertical angle
VertAngleInCU
Entries 1426
Mean 0.005451
RMS 0.003593
Angle (rad)

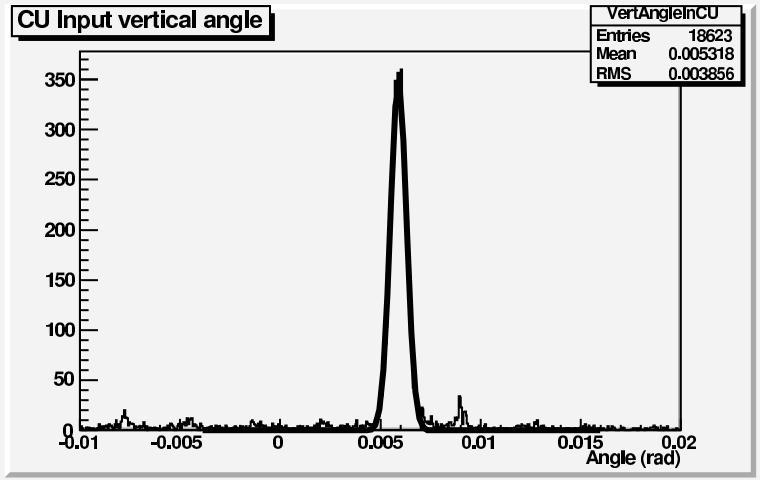

CU Input Beam Spot
SpotCoordInCU
Entries 1426
Mean x 181.9
Mean y -23.4
RMS x 9.023
RMS y 6.498
Vertical Position (mm)
Horizontal Position (mm)

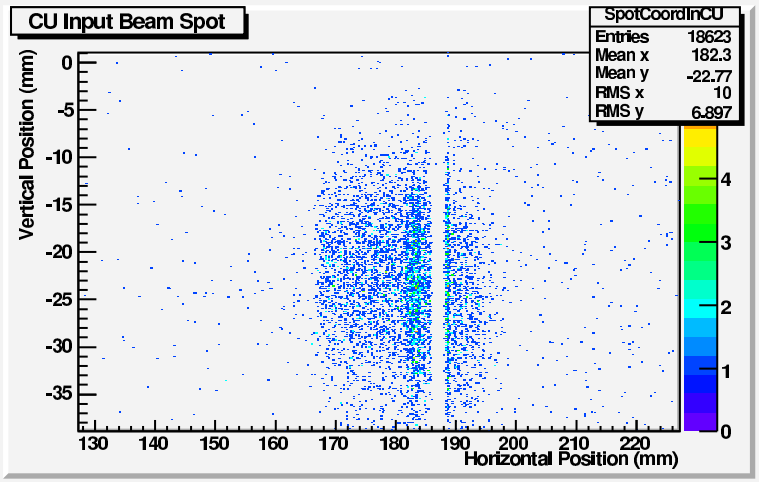

CU Input Beam Spot
SpotAngleInCU
Entries 1426
Mean x 0.005465
Mean y 0.01002
RMS x 0.003163
RMS y 0.002415
Vertical Angle (rad)
Horizontal Angle (rad)

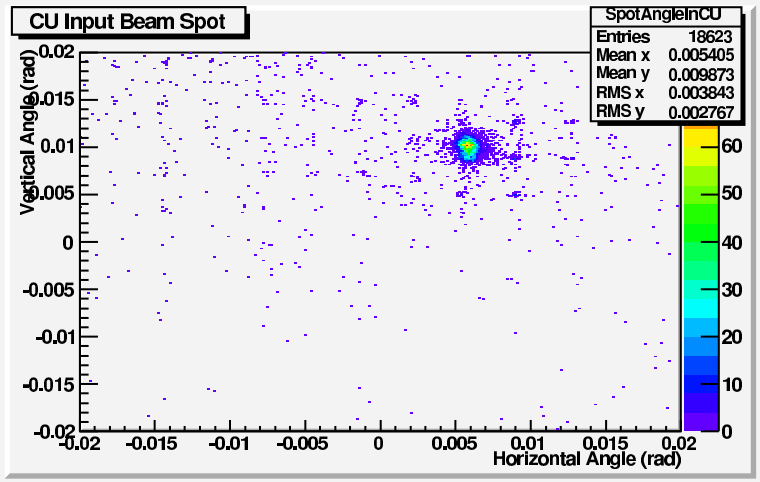

CU Input Horizontal coordinate
HorCoordInCU
Entries 18623
Mean 181.7
RMS 32.5
Position (mm)

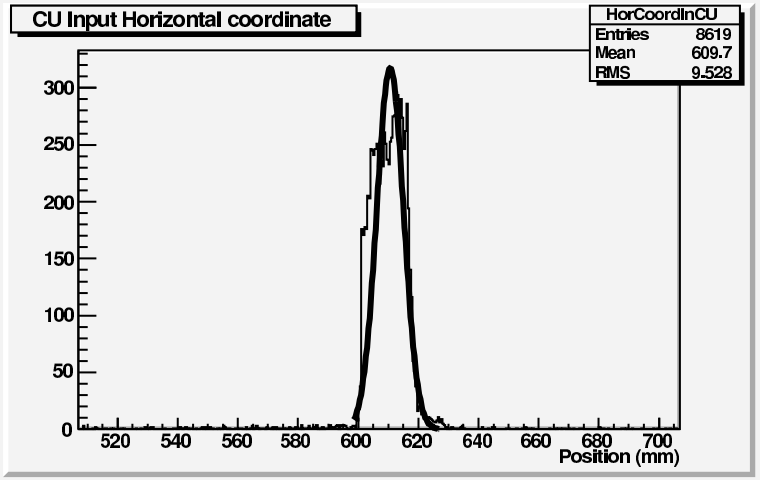

CU Input vertical coordinate
VertCoordInCU
Entries 18623
Mean -22.12
RMS 17.52
Position (mm)

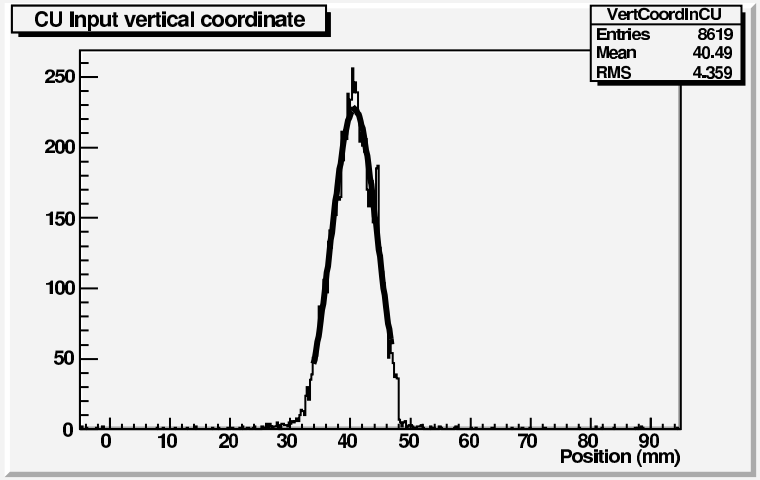

CU Input horizontal angle
HorAngleInCU
Entries 18623
Mean 0.009669
RMS 0.003353
Angle (rad)

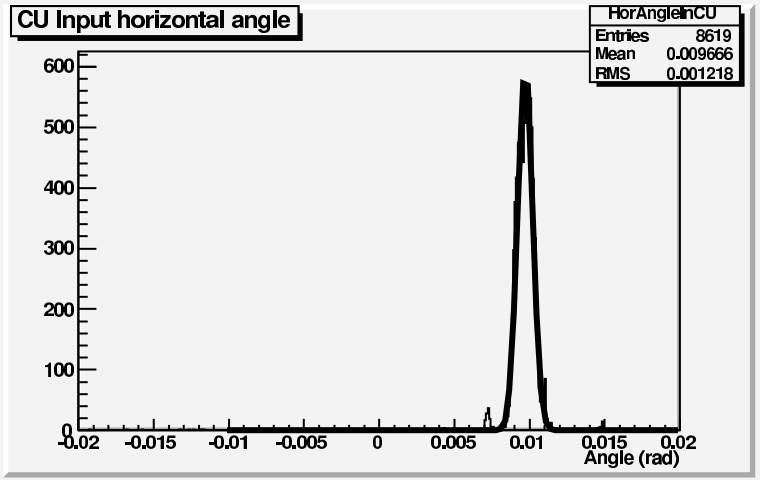

CU Input vertical angle
VertAngleInCU
Entries 18623
Mean 0.005318
RMS 0.003856
Angle (rad)

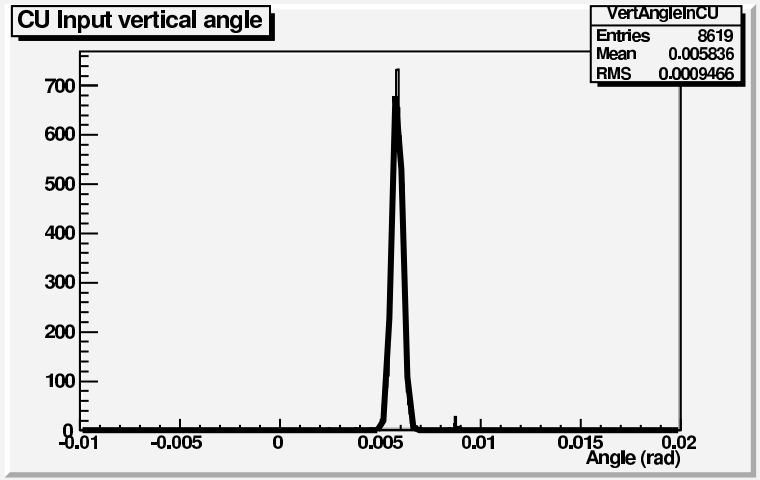

CU Input Beam Spot
SpotCoordInCU
Entries 18623
Mean x 182.3
Mean y -22.77
RMS x 10
RMS y 6.897
Vertical Position (mm)
Horizontal Position (mm)

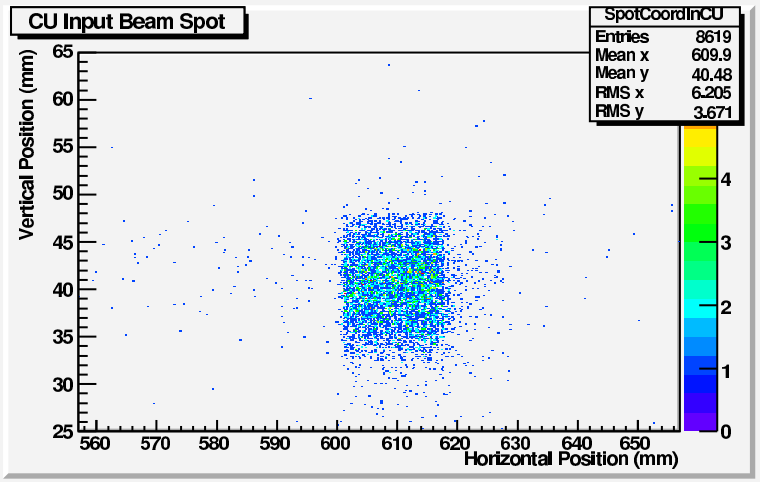

CU Input Beam Spot
SpotAngleInCU
Entries 18623
Mean x 0.005405
Mean y 0.009873
RMS x 0.003843
RMS y 0.002767
Vertical Angle (rad)
Horizontal Angle (rad)

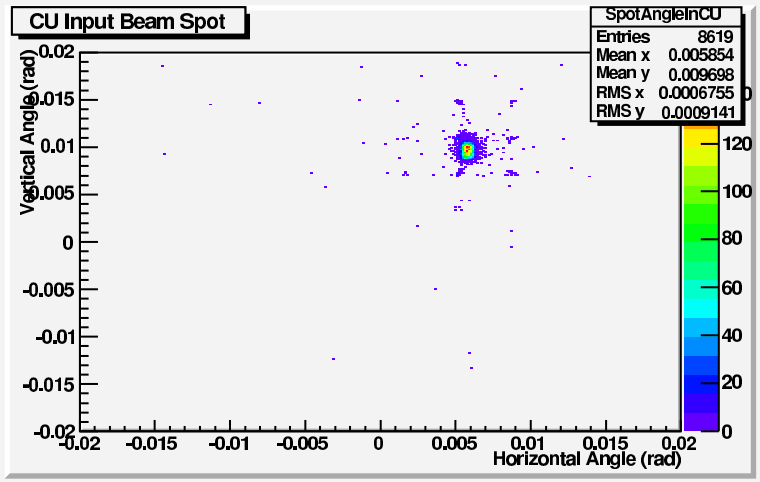

CU Input Horizontal coordinate
HorCoordInCU
Entries 8619
Mean 609.7
RMS 9.528
Position (mm)

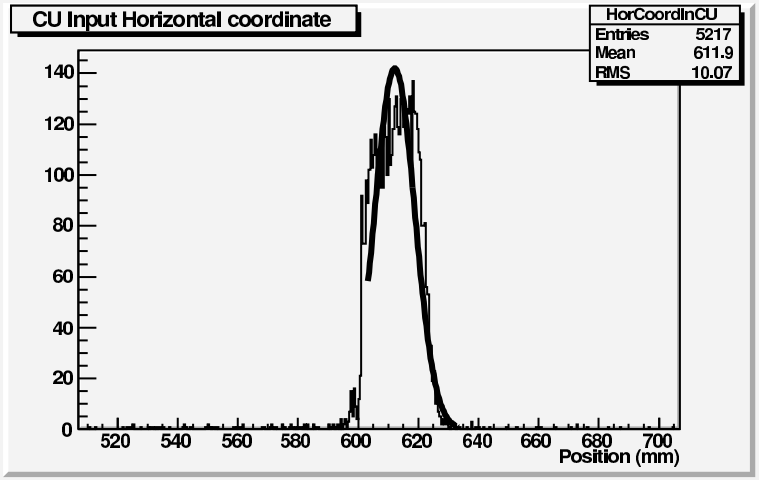

CU Input vertical coordinate
VertCoordInCU
Entries 8619
Mean 40.49
RMS 4.359
Position (mm)

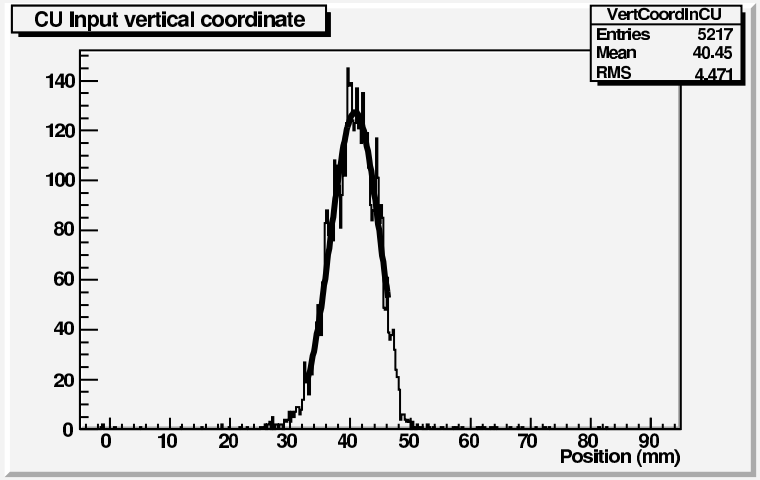

CU Input horizontal angle
HorAngleInCU
Entries 8619
Mean 0.009666
RMS 0.001218
Angle (rad)

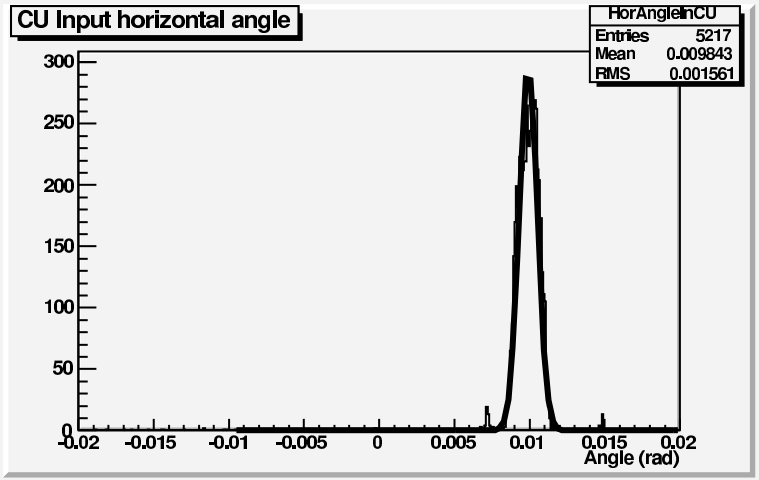

CU Input vertical angle
VertAngleInCU
Entries 8619
Mean 0.005836
RMS 0.0009466
Angle (rad)

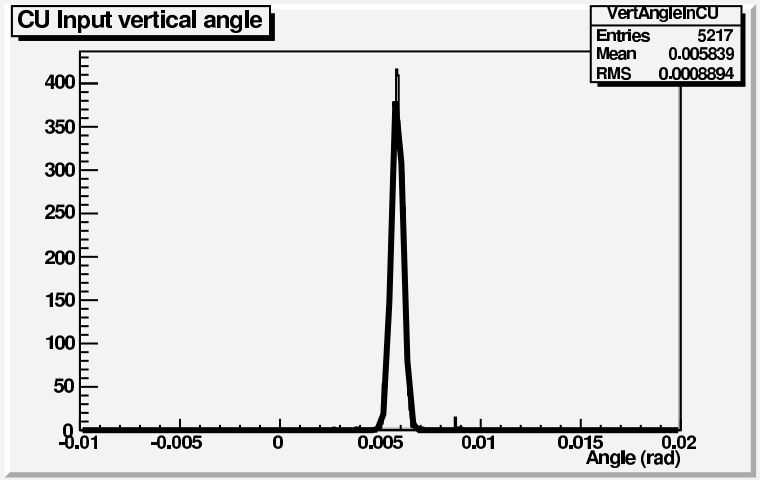

CU Input Beam Spot
SpotCoordInCU
Entries 8619
Mean x 609.9
Mean y 40.48
RMS x 6.205
RMS y 3.671
Vertical Position (mm)
Horizontal Position (mm)

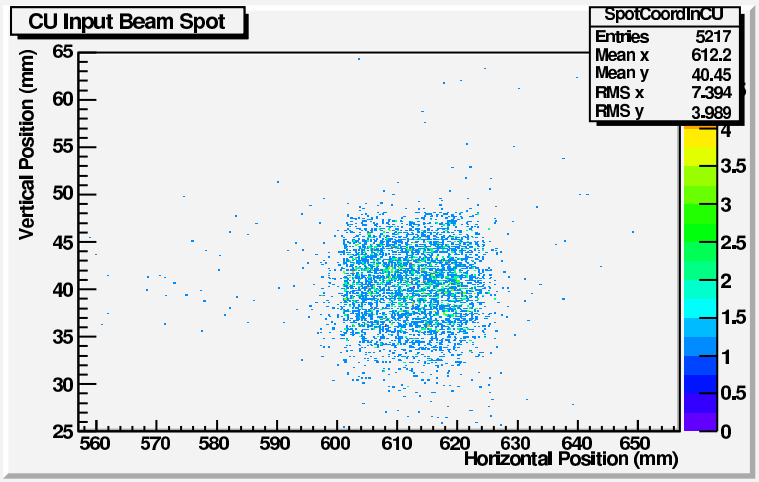

CU Input Beam Spot
SpotAngleInCU
Entries 8619
Mean x 0.005854
Mean y 0.009698
RMS x 0.0006755
RMS y 0.0009141
Vertical Angle (rad)
Horizontal Angle (rad)

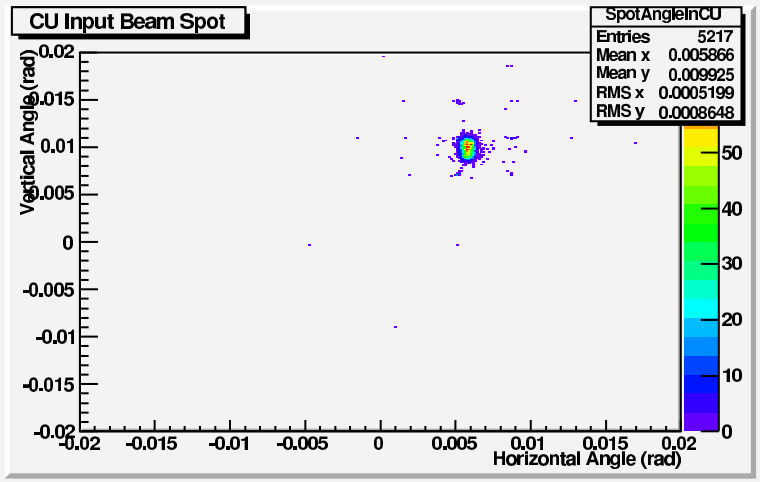

CU Input Horizontal coordinate
HorCoordInCU
Entries 5217
Mean 611.9
RMS 10.07
Position (mm)

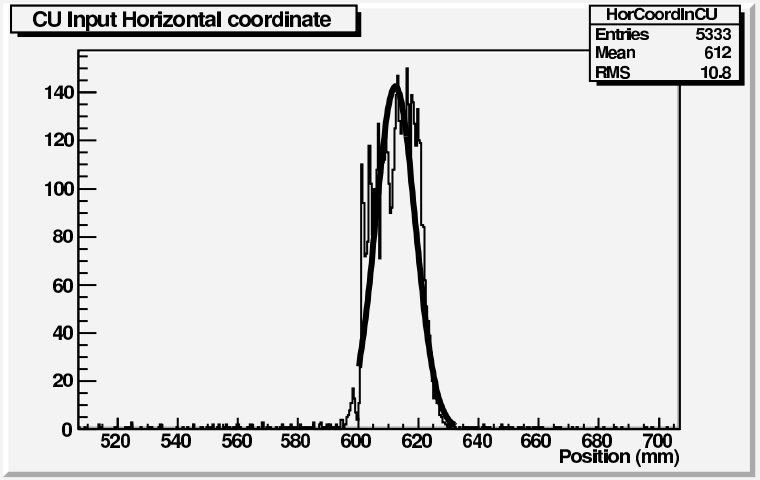

CU Input vertical coordinate
VertCoordInCU
Entries 5217
Mean 40.45
RMS 4.471
Position (mm)

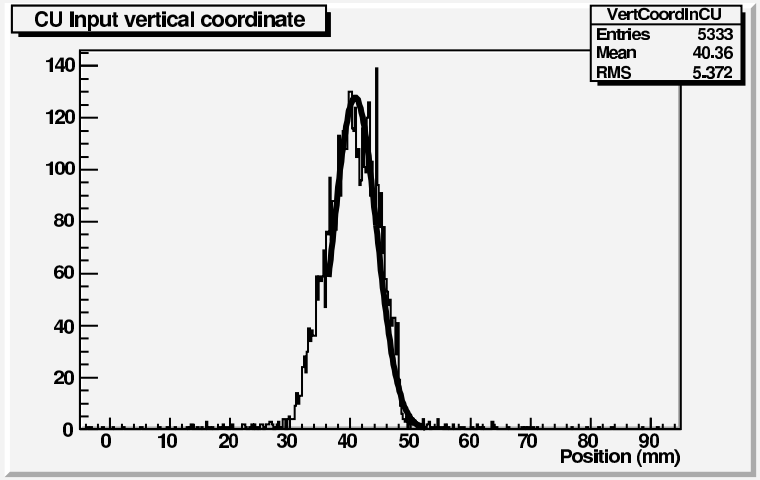

CU Input horizontal angle
HorAngleInCU
Entries 5217
Mean 0.009843
RMS 0.001561
Angle (rad)

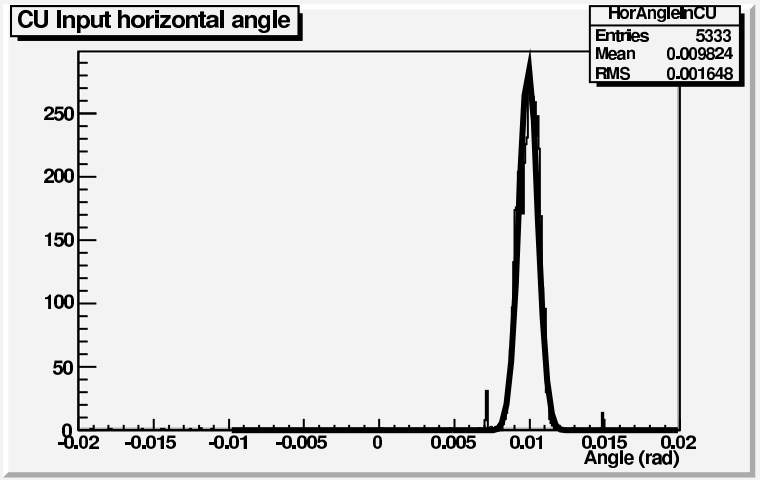

CU Input vertical angle
VertAngleInCU
Entries 5217
Mean 0.005839
RMS 0.0008894
Angle (rad)

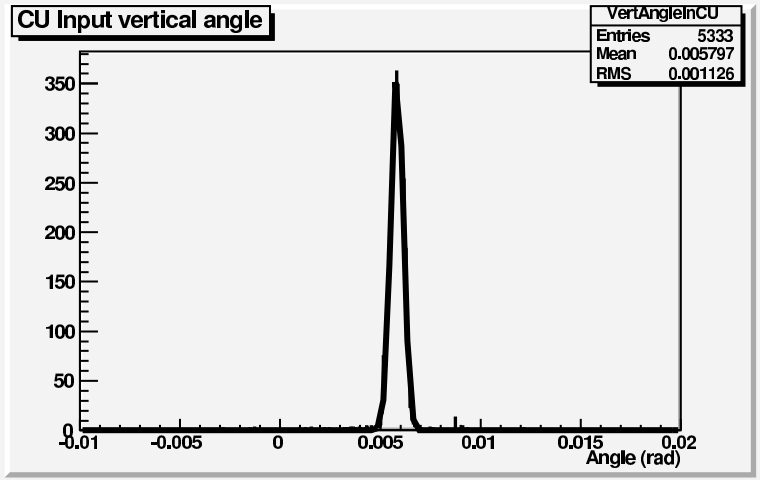

CU Input Beam Spot
SpotCoordInCU
Entries 5217
Mean x 612.2
Mean y 40.45
RMS x 7.394
RMS y 3.989
Vertical Position (mm)
Horizontal Position (mm)

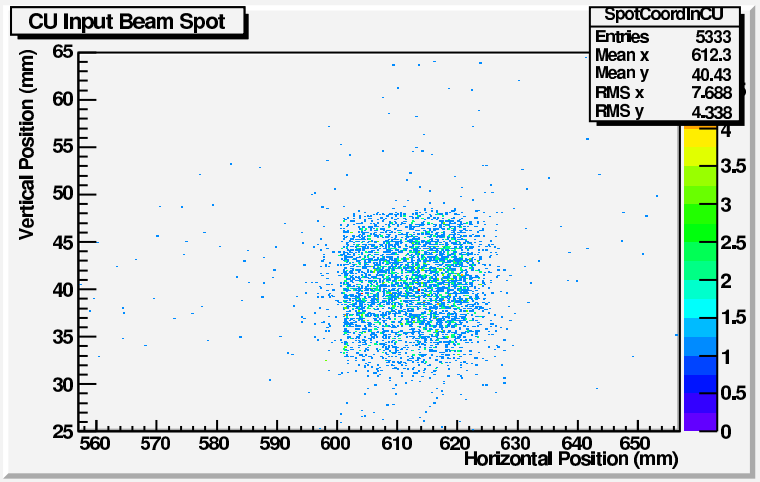

CU Input Beam Spot
SpotAngleInCU
Entries 5217
Mean x 0.005866
Mean y 0.009925
RMS x 0.0005199
RMS y 0.0008648
Vertical Angle (rad)
Horizontal Angle (rad)

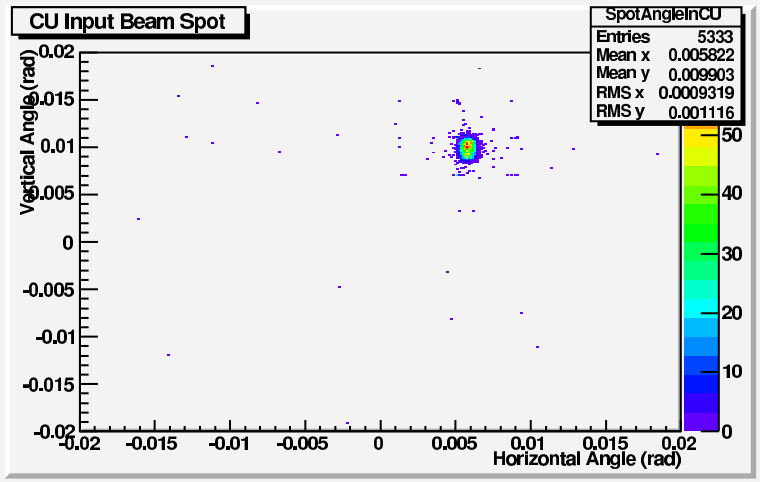

CU Input Horizontal coordinate
HorCoordInCU
Entries 5333
Mean 612
RMS 10.8
Position (mm)

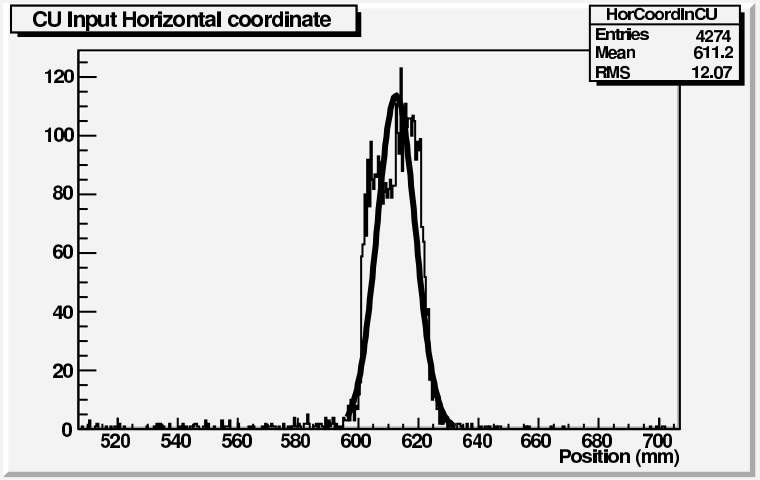

CU Input vertical coordinate
VertCoordInCU
Entries 5333
Mean 40.36
RMS 5.372
Position (mm)

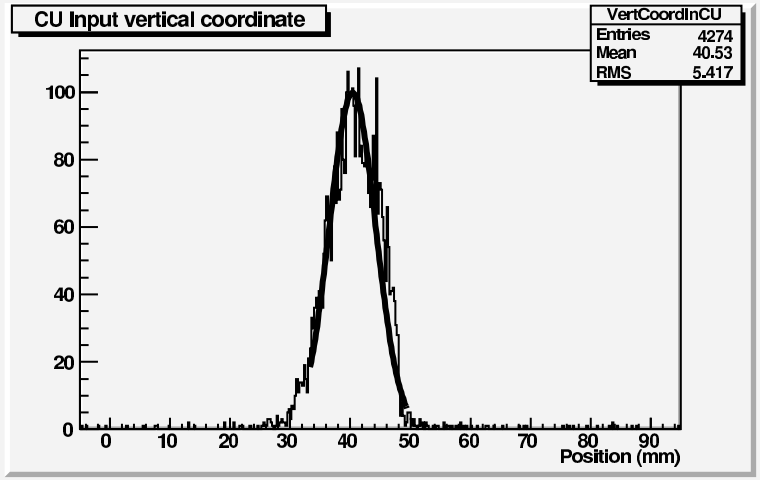

CU Input horizontal angle
HorAngleInCU
Entries 5333
Mean 0.009824
RMS 0.001648
Angle (rad)

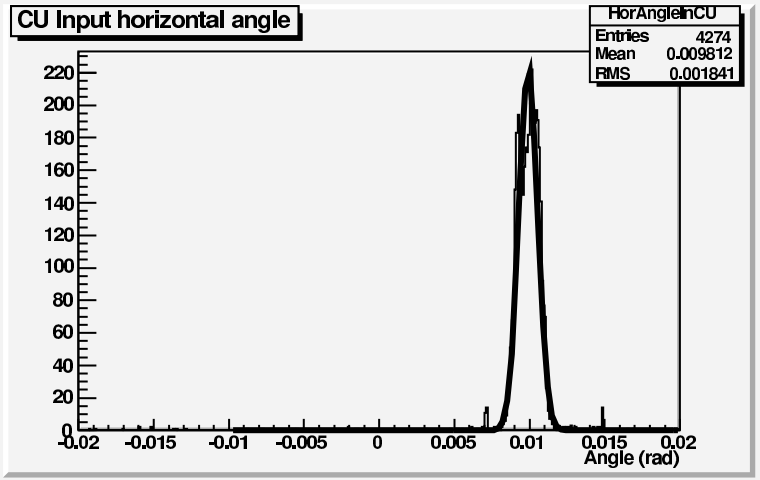

CU Input vertical angle
VertAngleInCU
Entries 5333
Mean 0.005797
RMS 0.001126
Angle (rad)

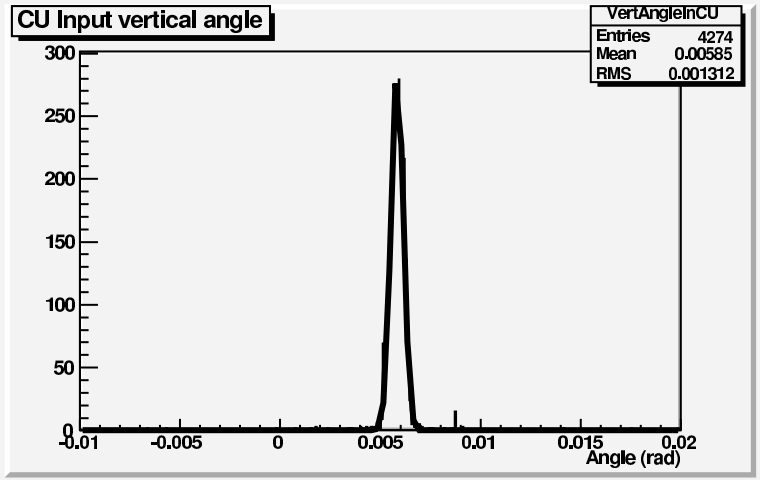

CU Input Beam Spot
SpotCoordInCU
Entries 5333
Mean x 612.3
Mean y 40.43
RMS x 7.688
RMS y 4.338
Vertical Position (mm)
Horizontal Position (mm)

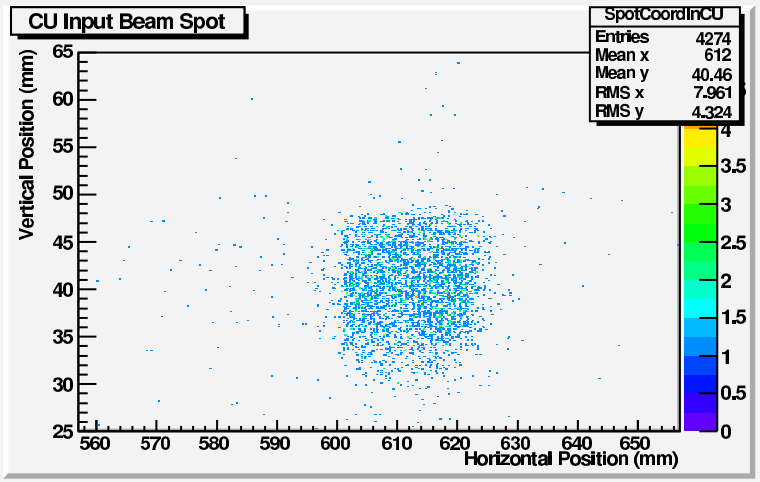

CU Input Beam Spot
SpotAngleInCU
Entries 5333
Mean x 0.005822
Mean y 0.009903
RMS x 0.0009319
RMS y 0.001116
Vertical Angle (rad)
Horizontal Angle (rad)

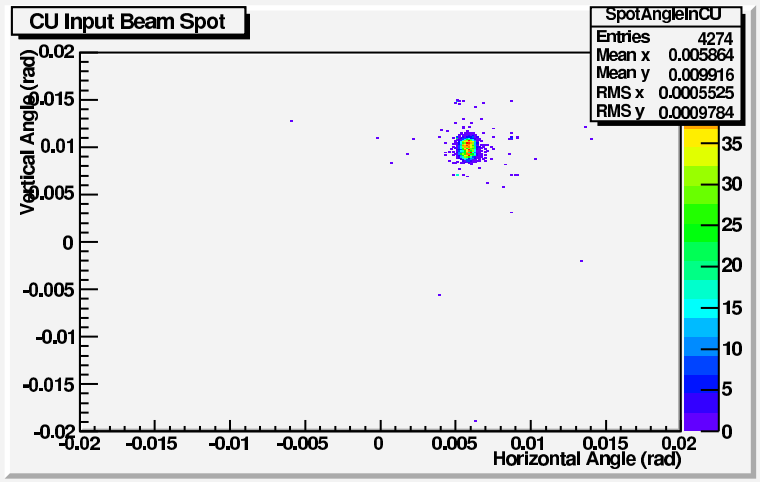

CU Input Horizontal coordinate
HorCoordInCU
Entries 4274
Mean 611.2
RMS 12.07
Position (mm)

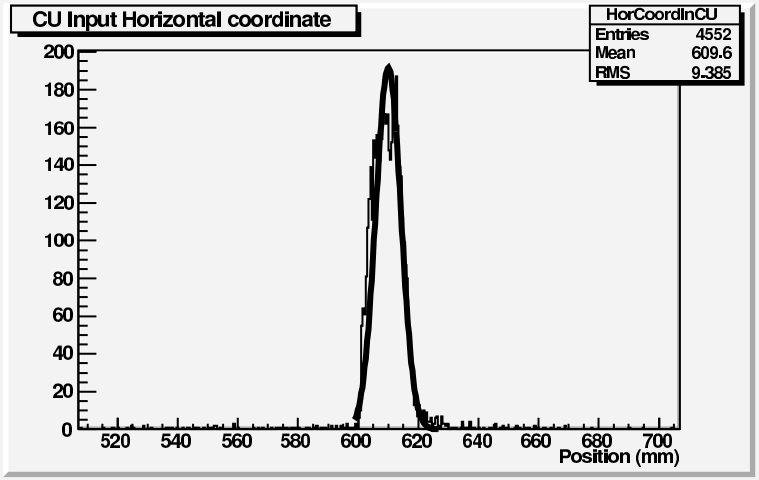

CU Input vertical coordinate
VertCoordInCU
Entries 4274
Mean 40.53
RMS 5.417
Position (mm)

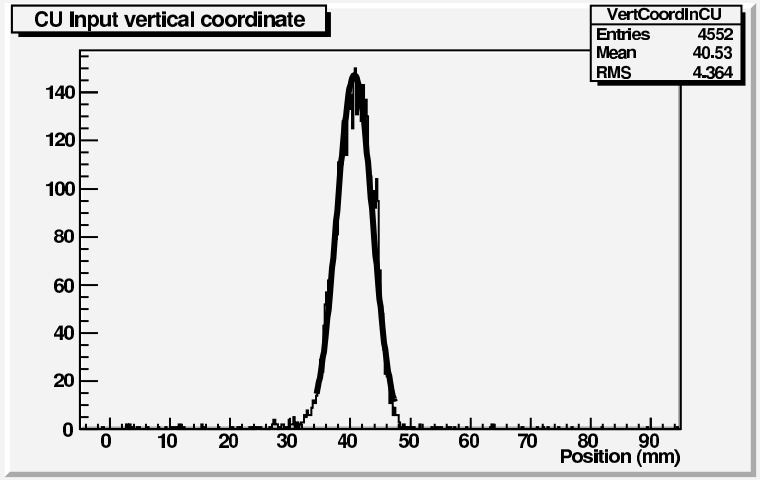

CU Input horizontal angle
HorAngleInCU
Entries 4274
Mean 0.009812
RMS 0.001841
Angle (rad)

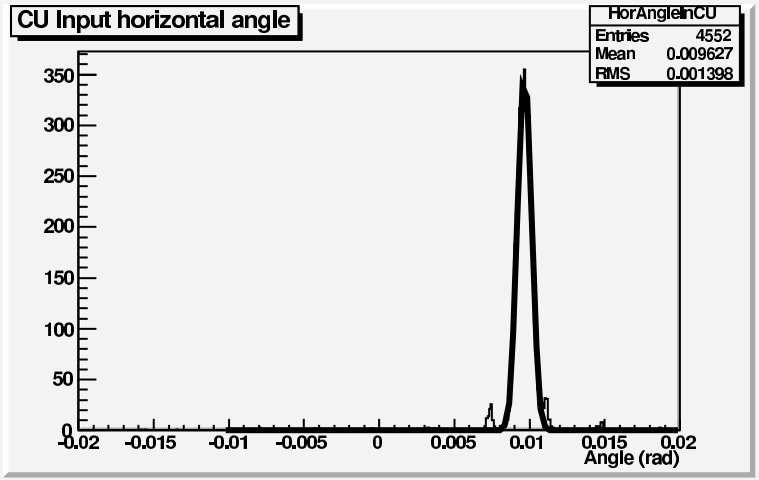

CU Input vertical angle
VertAngleInCU
Entries 4274
Mean 0.00585
RMS 0.001312
Angle (rad)

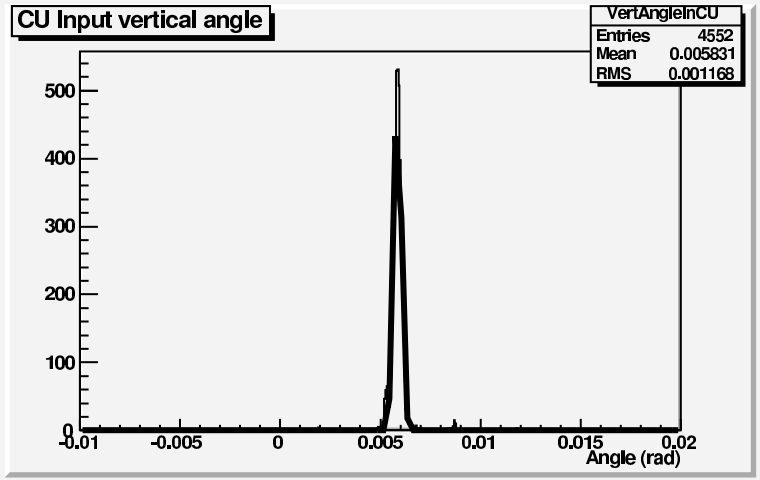

CU Input Beam Spot
SpotCoordInCU
Entries 4274
Mean x 612
Mean y 40.46
RMS x 7.961
RMS y 4.324
Vertical Position (mm)
Horizontal Position (mm)

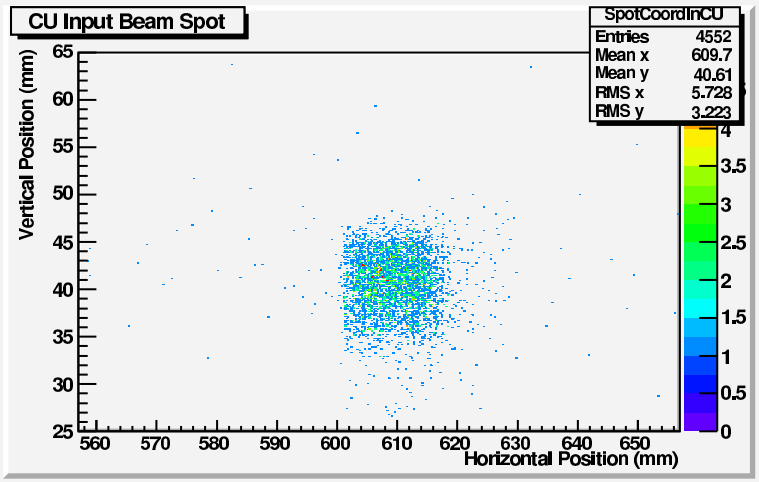

CU Input Beam Spot
SpotAngleInCU
Entries 4274
Mean x 0.005864
Mean y 0.009916
RMS x 0.0005525
RMS y 0.0009784
Vertical Angle (rad)
Horizontal Angle (rad)

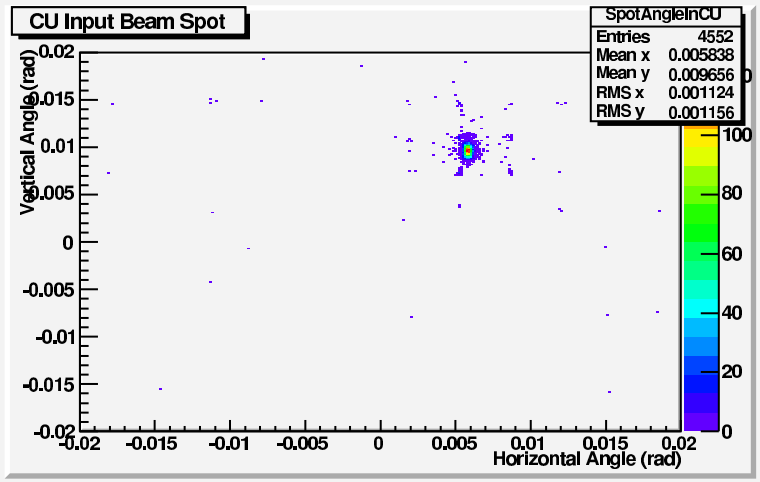

CU Input Horizontal coordinate
HorCoordInCU
Entries 4552
Mean 609.6
RMS 9.385
Position (mm)

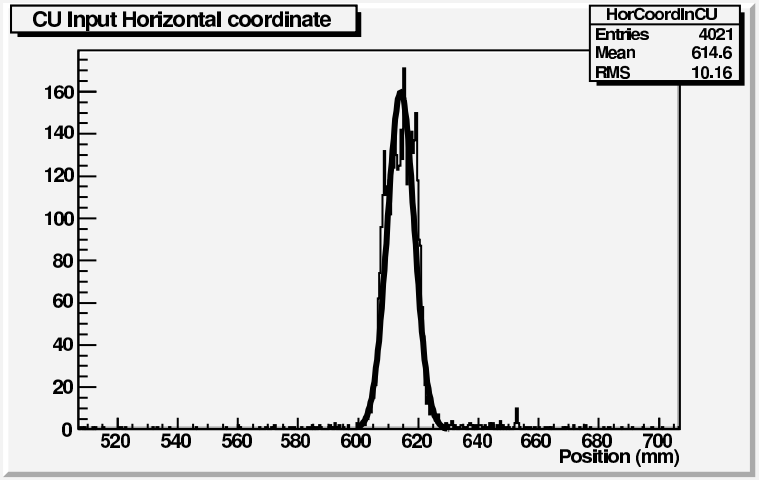

CU Input vertical coordinate
VertCoordInCU
Entries 4552
Mean 40.53
RMS 4.364
Position (mm)

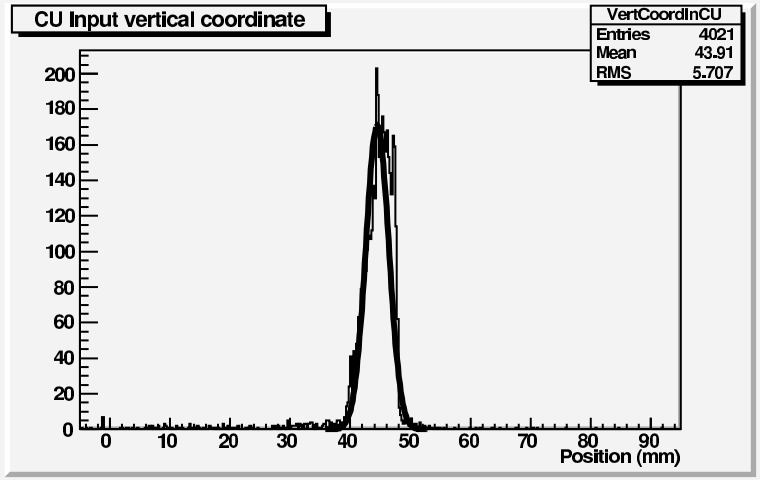

CU Input horizontal angle
HorAngleInCU
Entries 4552
Mean 0.009627
RMS 0.001398
Angle (rad)

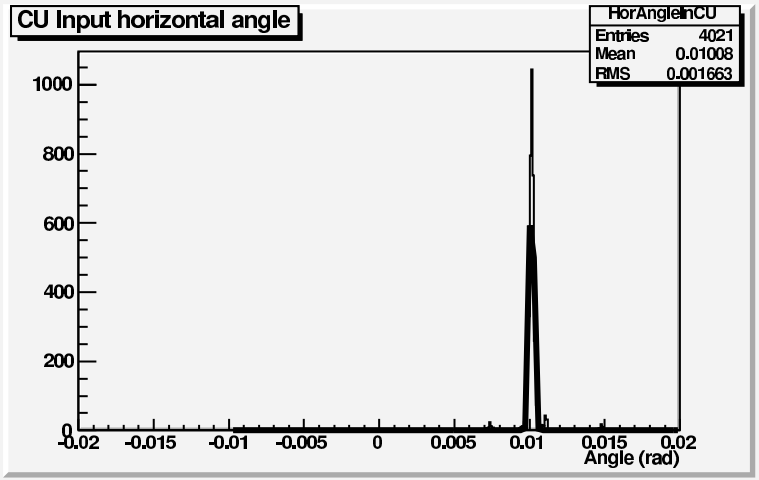

CU Input vertical angle
VertAngleInCU
Entries 4552
Mean 0.005831
RMS 0.001168
Angle (rad)

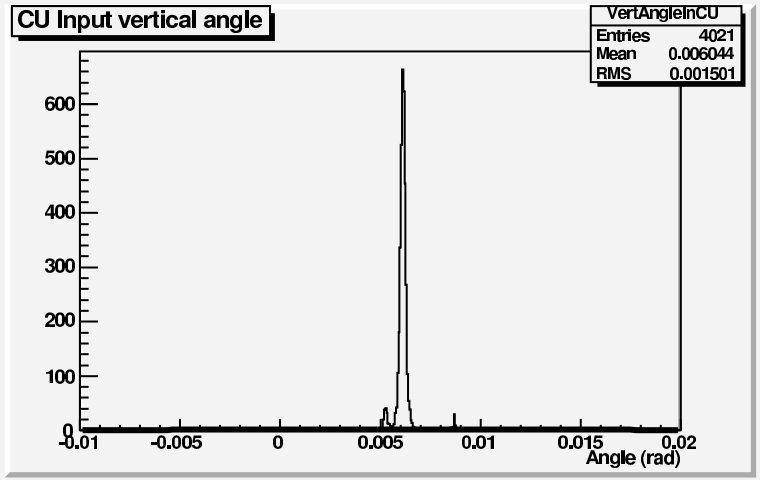

CU Input Beam Spot
SpotCoordInCU
Entries 4552
Mean x 609.7
Mean y 40.61
RMS x 5.728
RMS y 3.223
Vertical Position (mm)
Horizontal Position (mm)

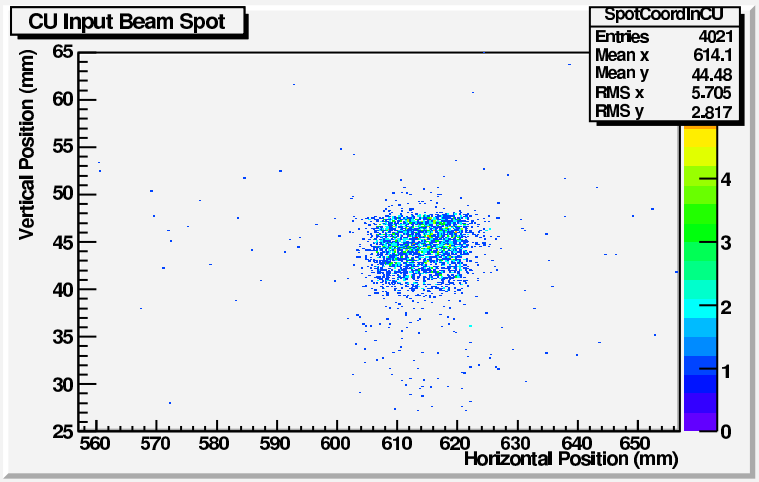

CU Input Beam Spot
SpotAngleInCU
Entries 4552
Mean x 0.005838
Mean y 0.009656
RMS x 0.001124
RMS y 0.001156
Vertical Angle (rad)
Horizontal Angle (rad)

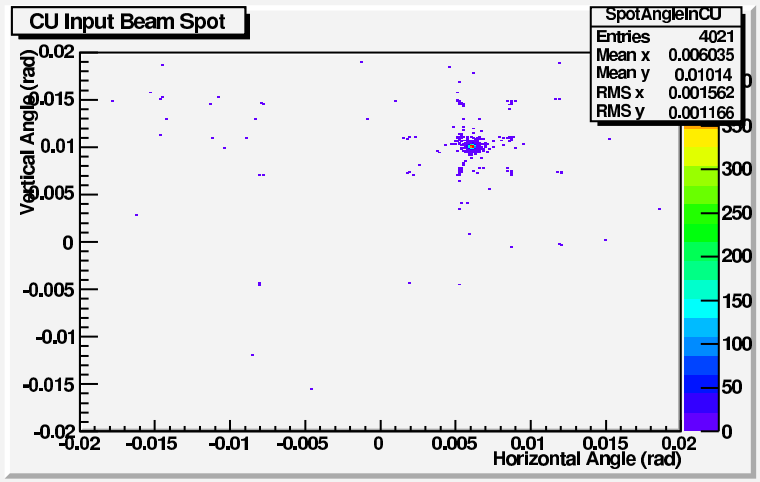

CU Input Horizontal coordinate
HorCoordInCU
Entries 4021
Mean 614.6
RMS 10.16
Position (mm)

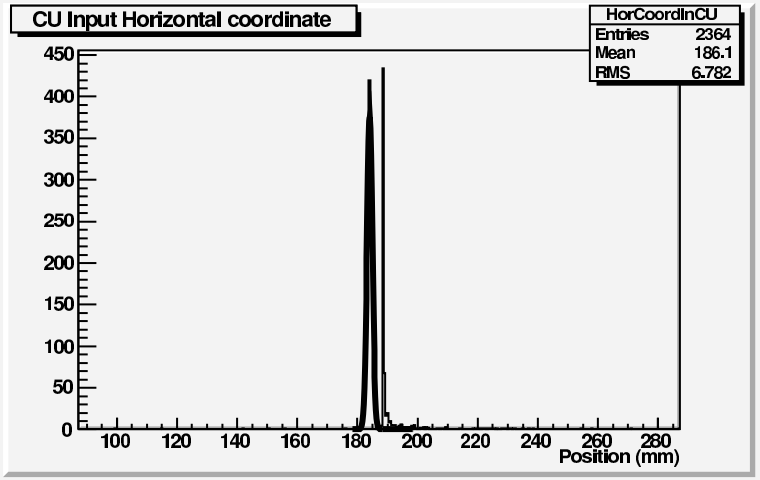

CU Input vertical coordinate
VertCoordInCU
Entries 4021
Mean 43.91
RMS 5.707
Position (mm)

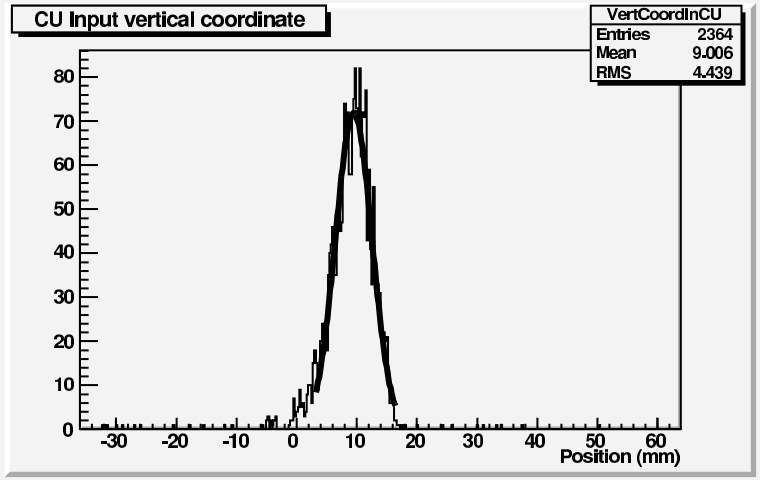

CU Input horizontal angle
HorAngleInCU
Entries 4021
Mean 0.01008
RMS 0.001663
Angle (rad)

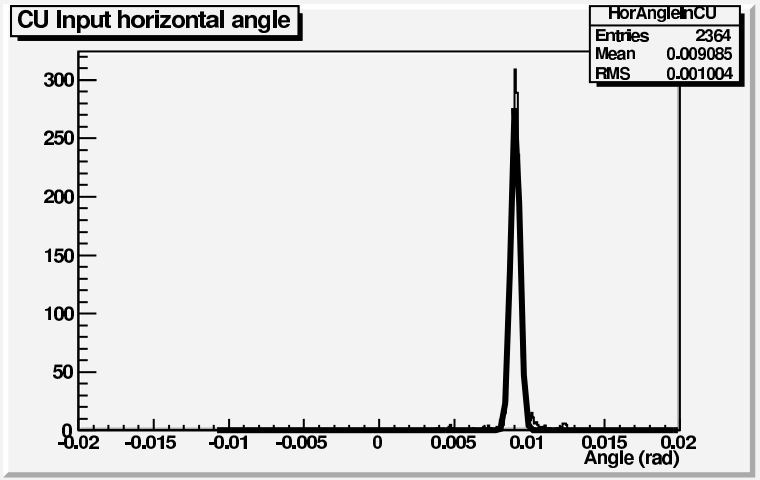

CU Input vertical angle
VertAngleInCU
Entries 4021
Mean 0.006044
RMS 0.001501
Angle (rad)

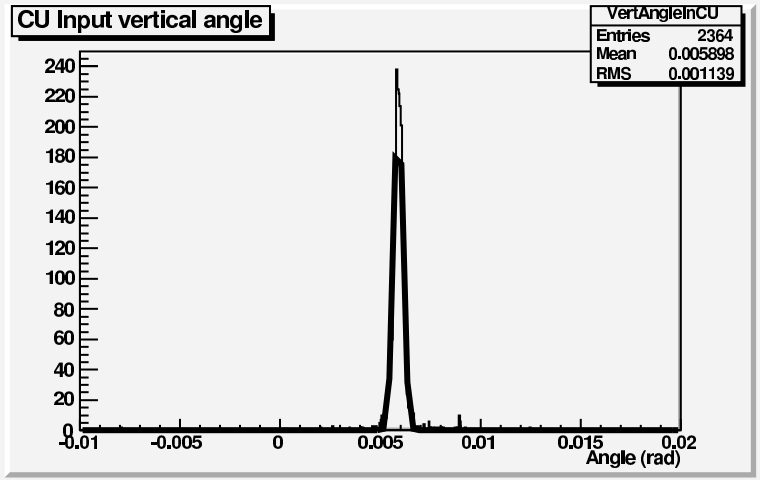

CU Input Beam Spot
SpotCoordInCU
Entries 4021
Mean x 614.1
Mean y 44.48
RMS x 5.705
RMS y 2.817
Vertical Position (mm)
Horizontal Position (mm)

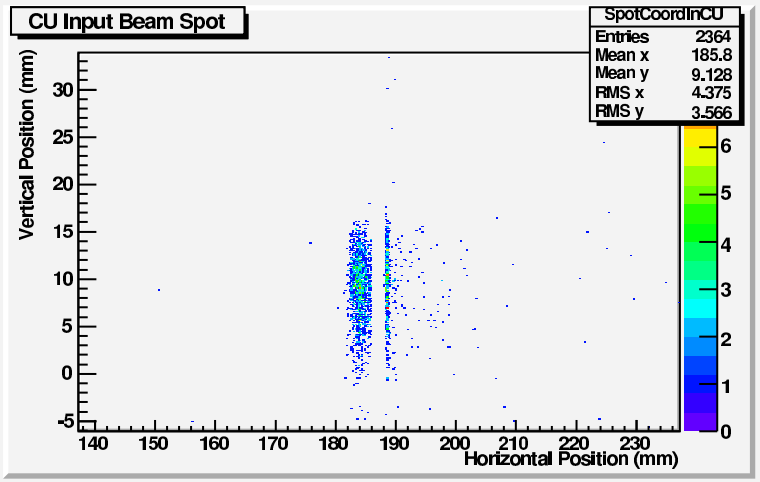

CU Input Beam Spot
SpotAngleInCU
Entries 4021
Mean x 0.006035
Mean y 0.01014
RMS x 0.001562
RMS y 0.001166
Vertical Angle (rad)
Horizontal Angle (rad)

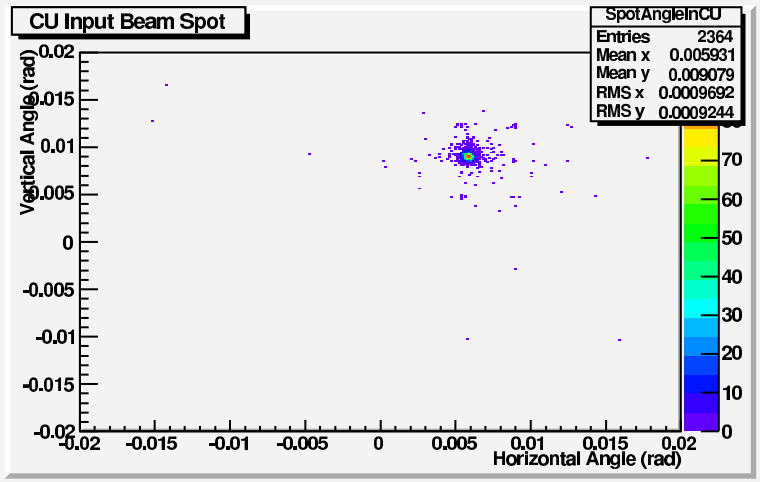

CU Input Horizontal coordinate
HorCoordInCU
Entries 2364
Mean 186.1
RMS 6.782
Position (mm)

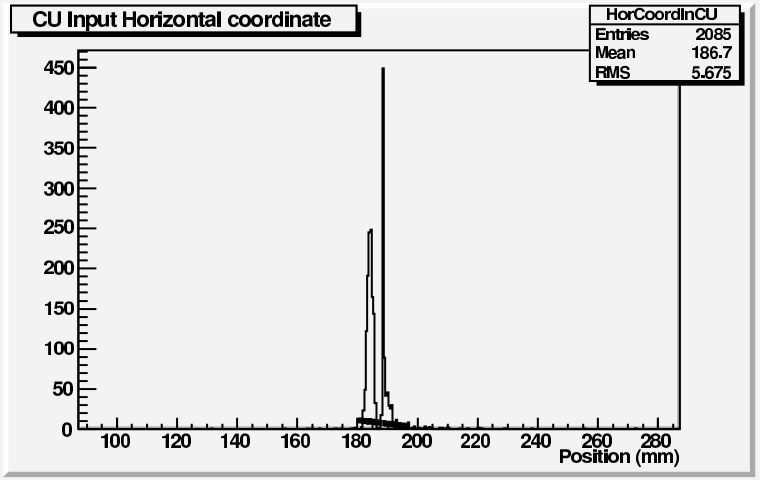

CU Input vertical coordinate
VertCoordInCU
Entries 2364
Mean 9.006
RMS 4.439
Position (mm)

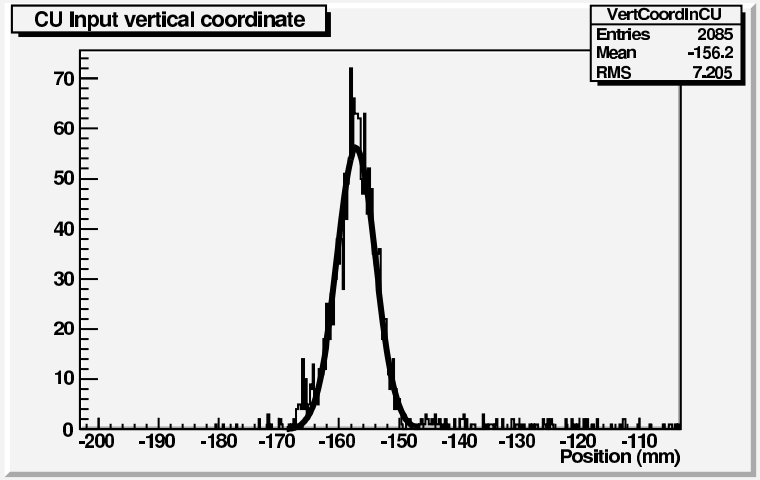

CU Input horizontal angle
HorAngleInCU
Entries 2364
Mean 0.009085
RMS 0.001004
Angle (rad)

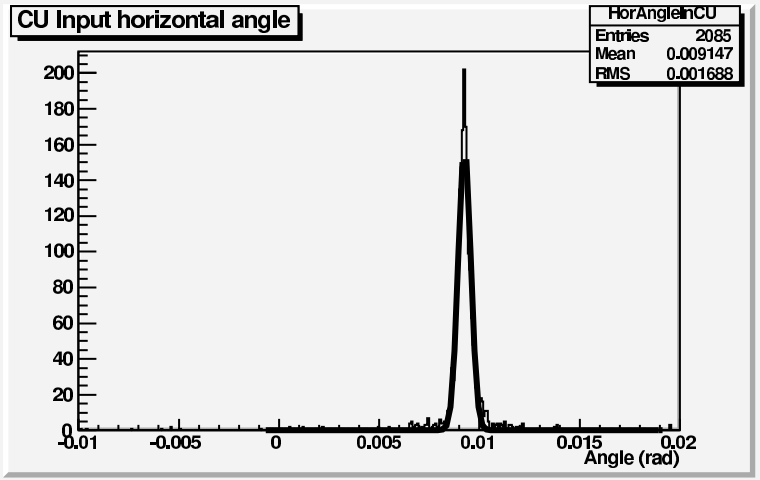

CU Input vertical angle
VertAngleInCU
Entries 2364
Mean 0.005898
RMS 0.001139
Angle (rad)

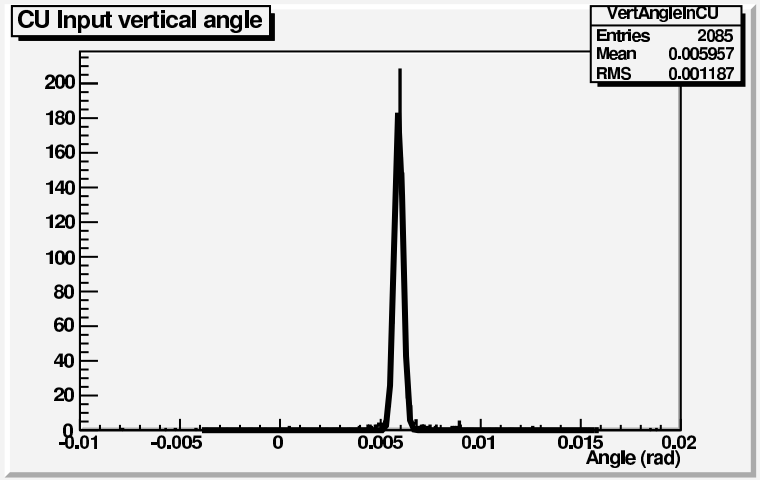

CU Input Beam Spot
SpotCoordInCU
Entries 2364
Mean x 185.8
Mean y 9.128
RMS x 4.375
RMS y 3.566
Vertical Position (mm)
Horizontal Position (mm)

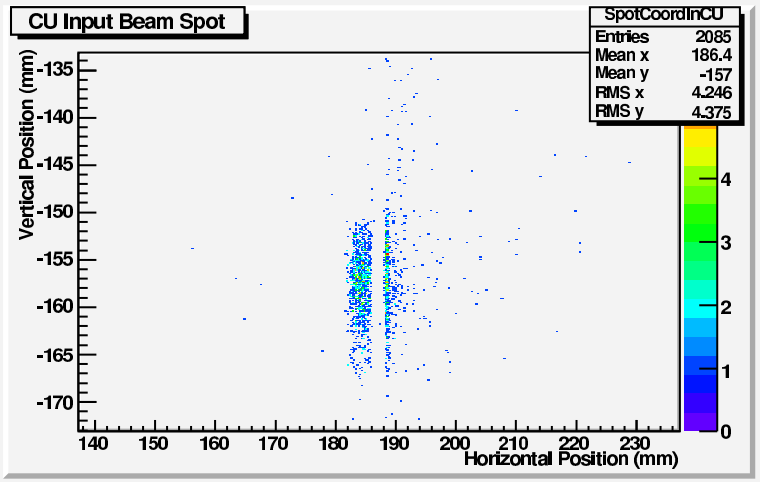

CU Input Beam Spot
SpotAngleInCU
Entries 2364
Mean x 0.005931
Mean y 0.009079
RMS x 0.0009692
RMS y 0.0009244
Vertical Angle (rad)
Horizontal Angle (rad)

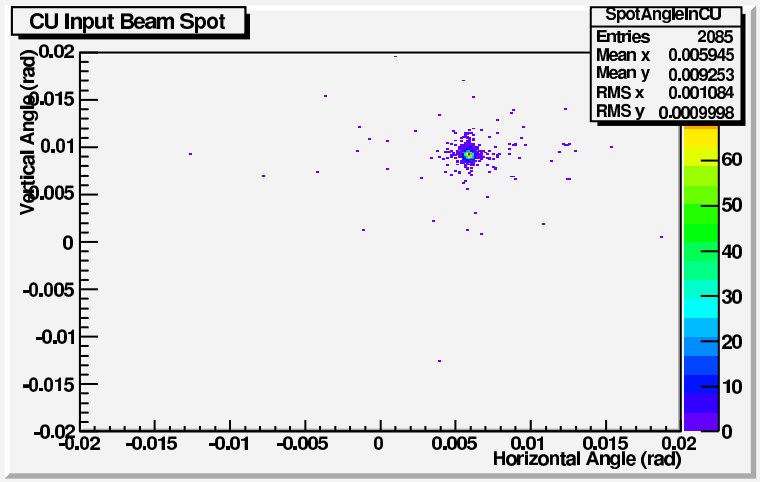

CU Input Horizontal coordinate
HorCoordInCU
Entries 2085
Mean 186.7
RMS 5.675
Position (mm)

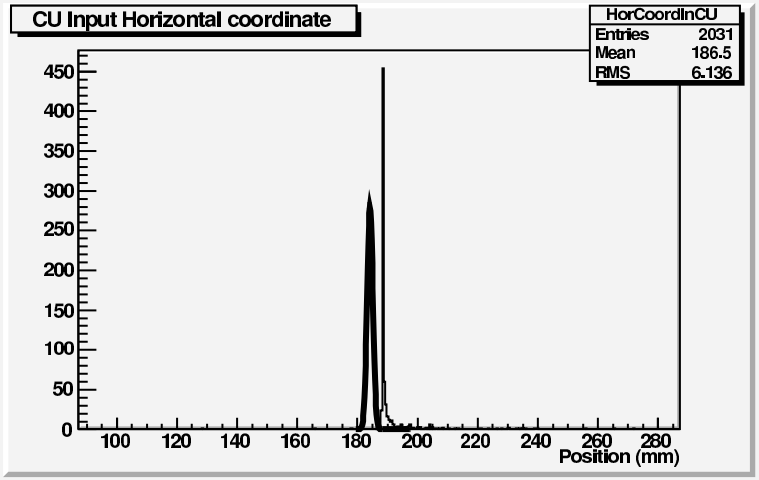

CU Input vertical coordinate
VertCoordInCU
Entries 2085
Mean -156.2
RMS 7.205
Position (mm)

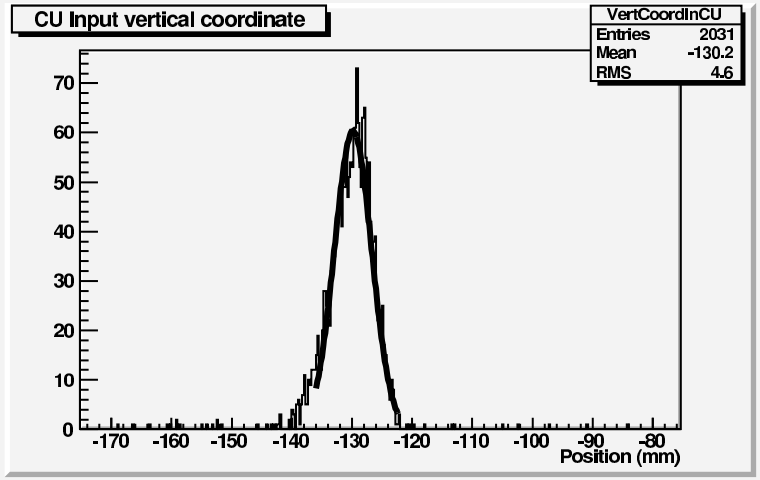

CU Input horizontal angle
HorAngleInCU
Entries 2085
Mean 0.009147
RMS 0.001688
Angle (rad)

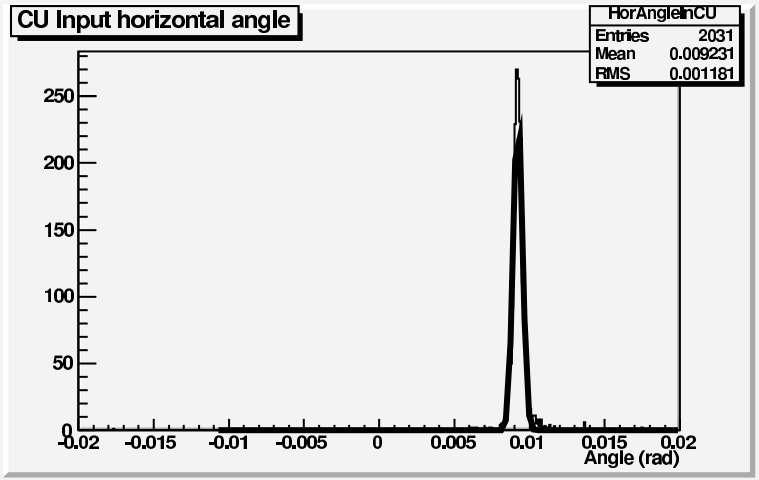

CU Input vertical angle
VertAngleInCU
Entries 2085
Mean 0.005957
RMS 0.001187
Angle (rad)

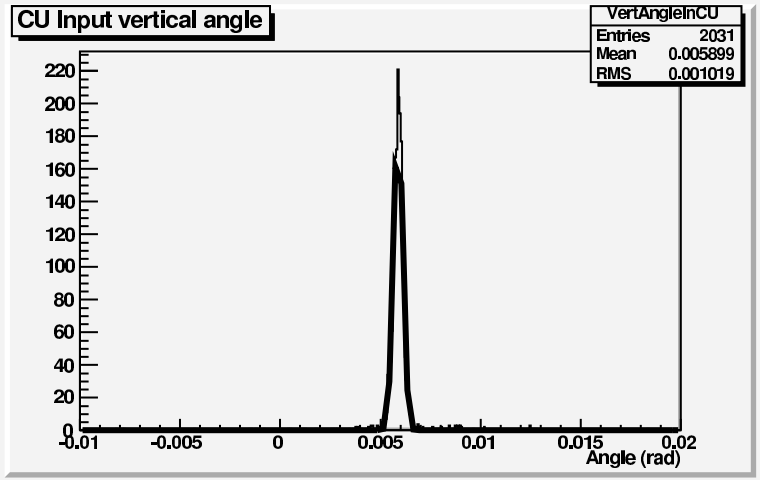

CU Input Beam Spot
SpotCoordInCU
Entries 2085
Mean x 186.4
Mean y -157
RMS x 4.246
RMS y 4.375
Vertical Position (mm)
Horizontal Position (mm)

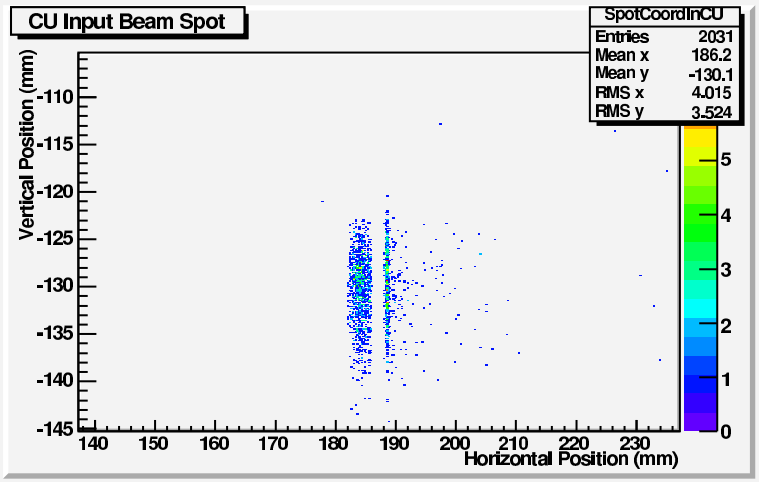

CU Input Beam Spot
SpotAngleInCU
Entries 2085
Mean x 0.005945
Mean y 0.009253
RMS x 0.001084
RMS y 0.0009998
Vertical Angle (rad)
Horizontal Angle (rad)

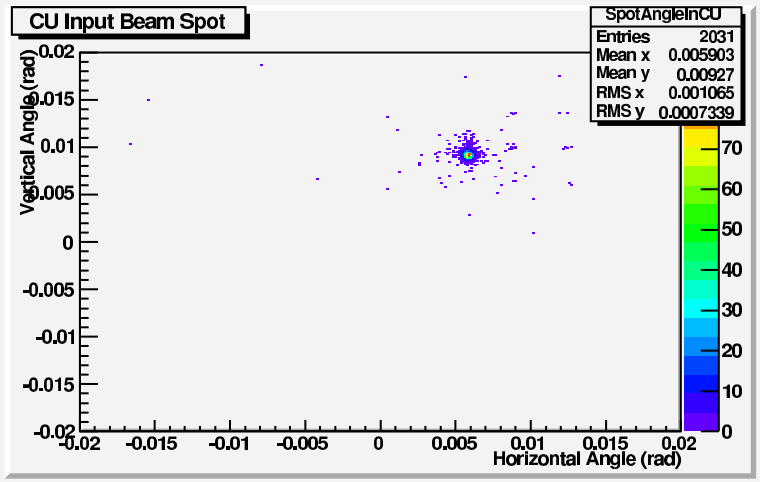

CU Input Horizontal coordinate
HorCoordInCU
Entries 2031
Mean 186.5
RMS 6.136
Position (mm)

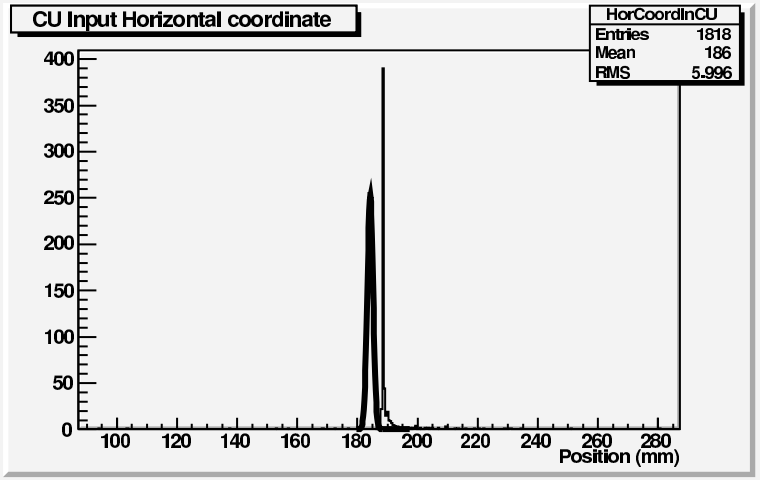

CU Input vertical coordinate
VertCoordInCU
Entries 2031
Mean -130.2
RMS 4.6
Position (mm)

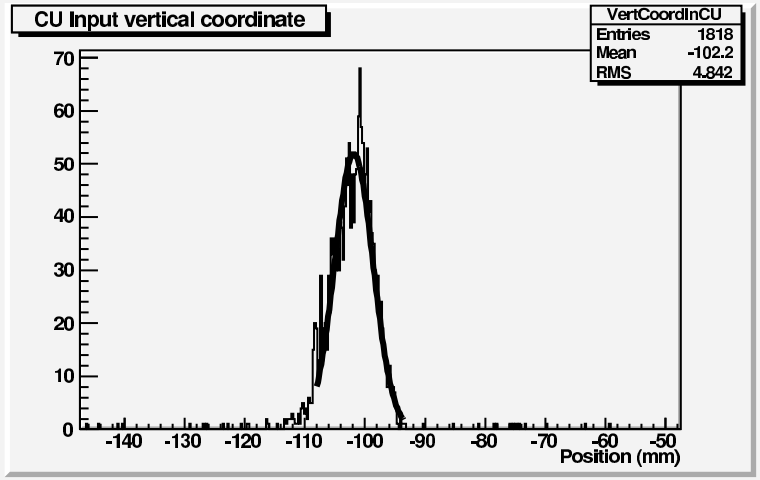

CU Input horizontal angle
HorAngleInCU
Entries 2031
Mean 0.009231
RMS 0.001181
Angle (rad)

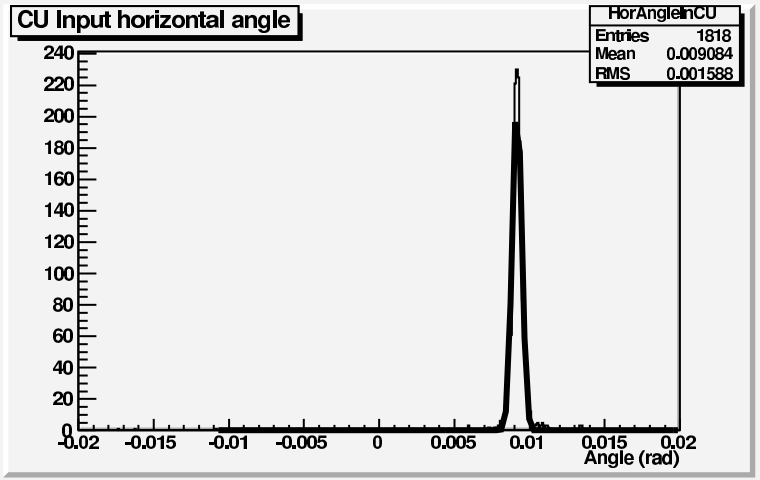

CU Input vertical angle
VertAngleInCU
Entries 2031
Mean 0.005899
RMS 0.001019
Angle (rad)

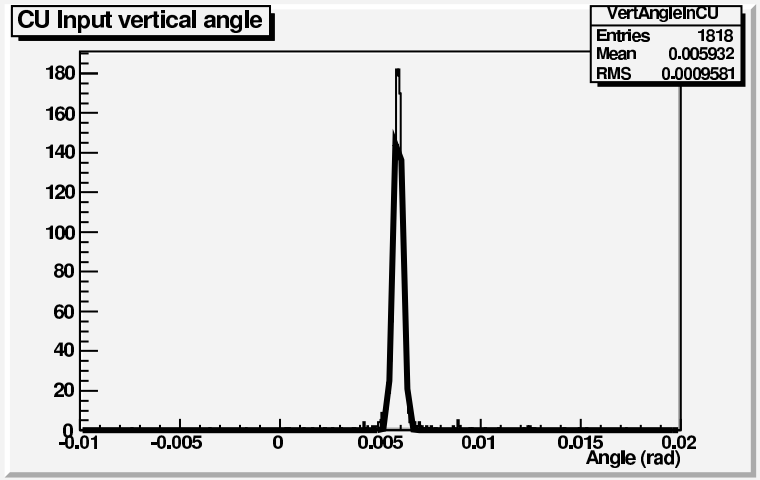

CU Input Beam Spot
SpotCoordInCU
Entries 2031
Mean x 186.2
Mean y -130.1
RMS x 4.015
RMS y 3.524
Vertical Position (mm)
Horizontal Position (mm)

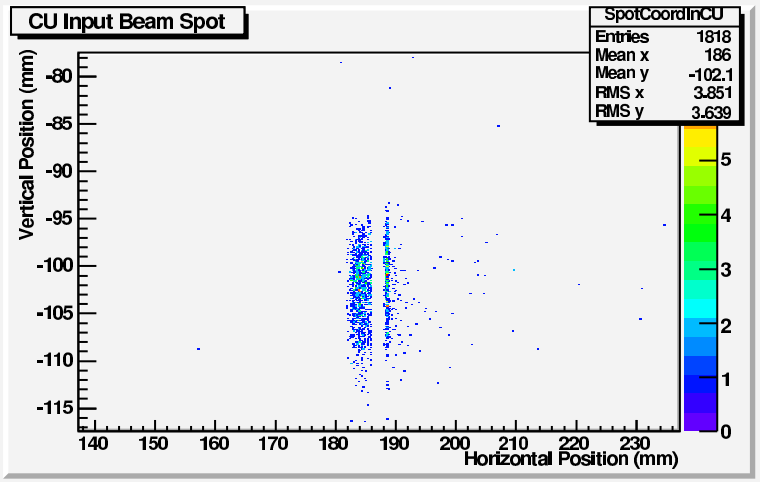

CU Input Beam Spot
SpotAngleInCU
Entries 2031
Mean x 0.005903
Mean y 0.00927
RMS x 0.001065
RMS y 0.0007339
Vertical Angle (rad)
Horizontal Angle (rad)

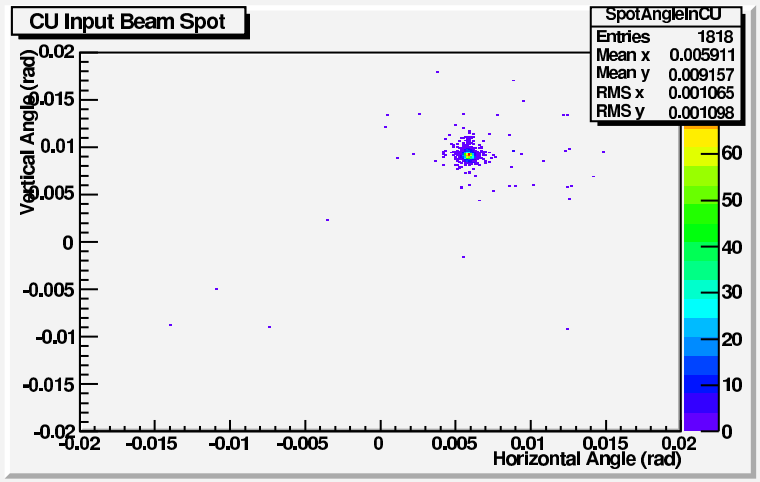

CU Input Horizontal coordinate
HorCoordInCU
Entries 1818
Mean 186
RMS 5.996
Position (mm)

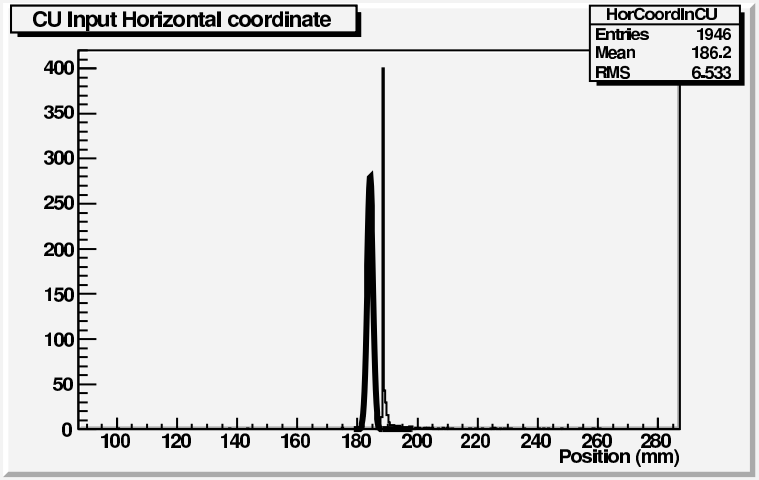

CU Input vertical coordinate
VertCoordInCU
Entries 1818
Mean -102.2
RMS 4.842
Position (mm)

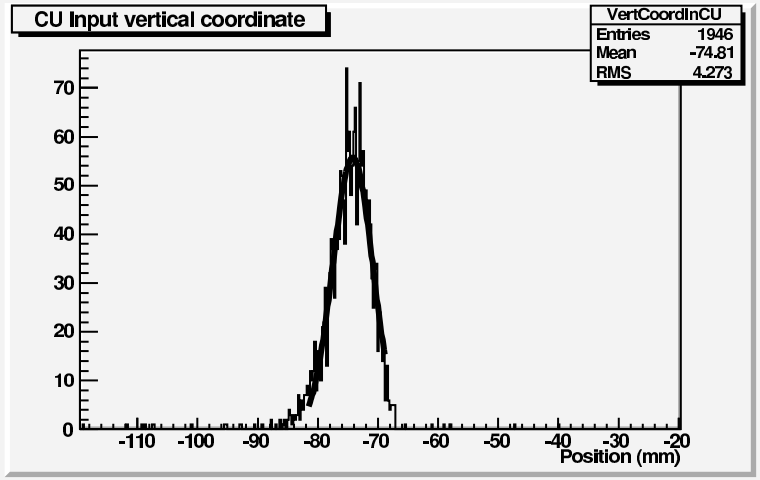

CU Input horizontal angle
HorAngleInCU
Entries 1818
Mean 0.009084
RMS 0.001588
Angle (rad)

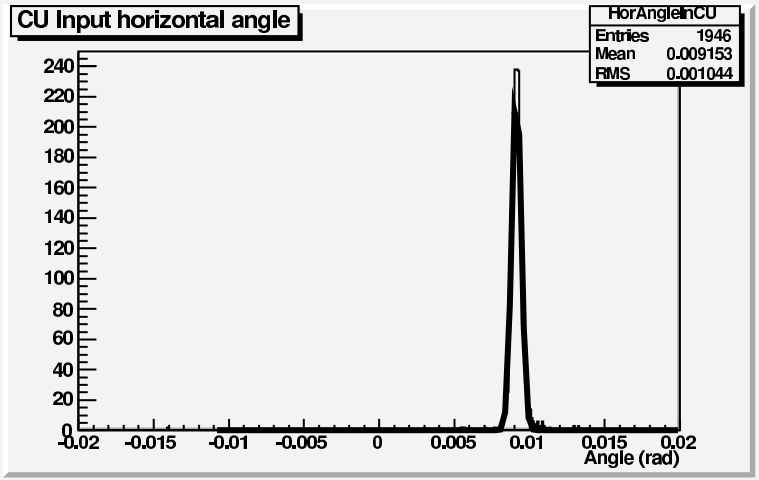

CU Input vertical angle
VertAngleInCU
Entries 1818
Mean 0.005932
RMS 0.0009581
Angle (rad)

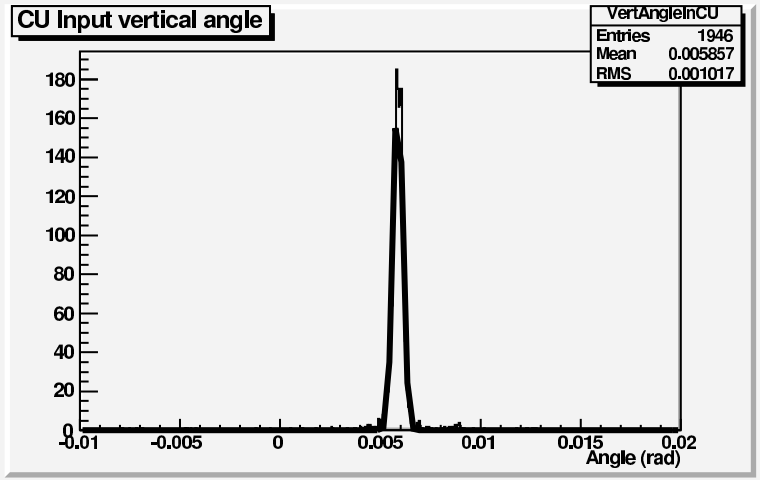

CU Input Beam Spot
SpotCoordInCU
Entries 1818
Mean x 186
Mean y -102.1
RMS x 3.851
RMS y 3.639
Vertical Position (mm)
Horizontal Position (mm)

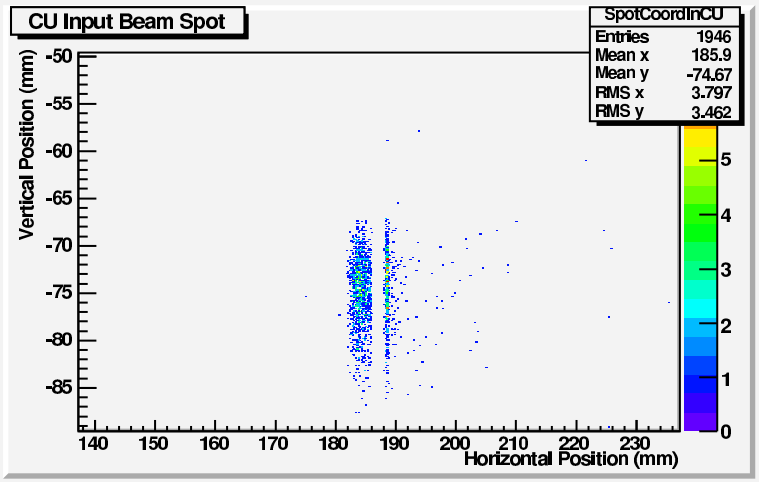

CU Input Beam Spot
SpotAngleInCU
Entries 1818
Mean x 0.005911
Mean y 0.009157
RMS x 0.001065
RMS y 0.001098
Vertical Angle (rad)
Horizontal Angle (rad)

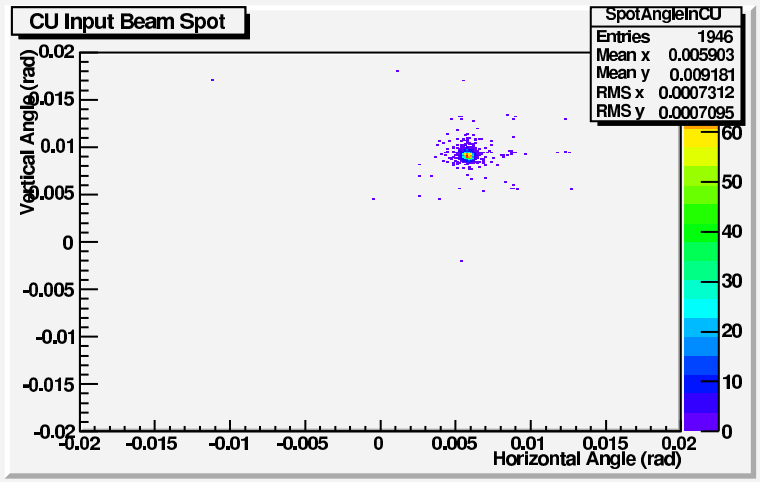

CU Input Horizontal coordinate
HorCoordInCU
Entries 1946
Mean 186.2
RMS 6.533
Position (mm)

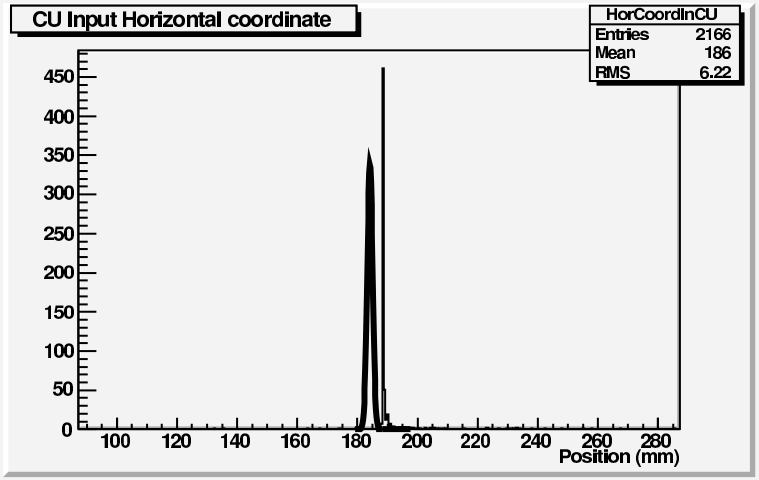

CU Input vertical coordinate
VertCoordInCU
Entries 1946
Mean -74.81
RMS 4.273
Position (mm)

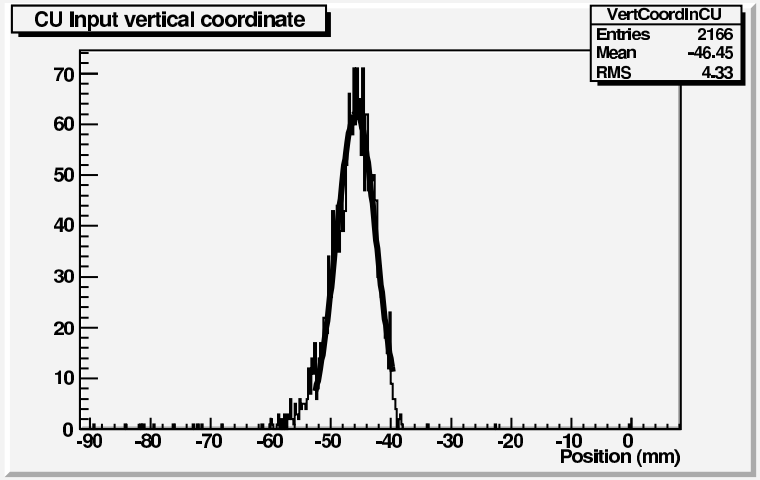

CU Input horizontal angle
HorAngleInCU
Entries 1946
Mean 0.009153
RMS 0.001044
Angle (rad)

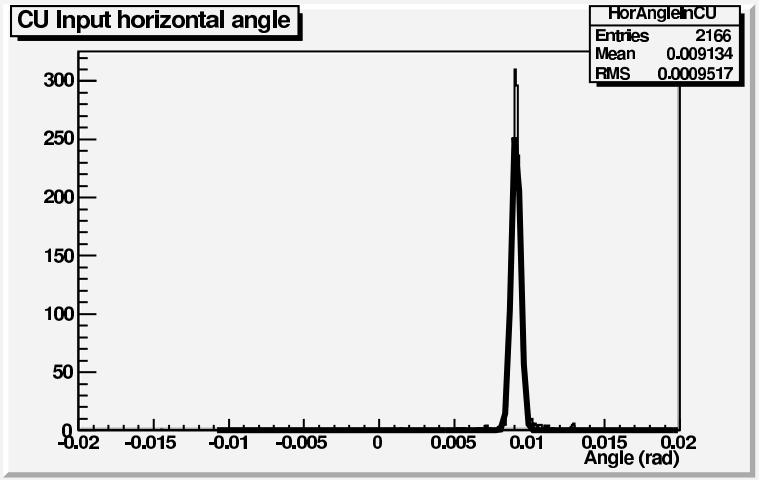

CU Input vertical angle
VertAngleInCU
Entries 1946
Mean 0.005857
RMS 0.001017
Angle (rad)

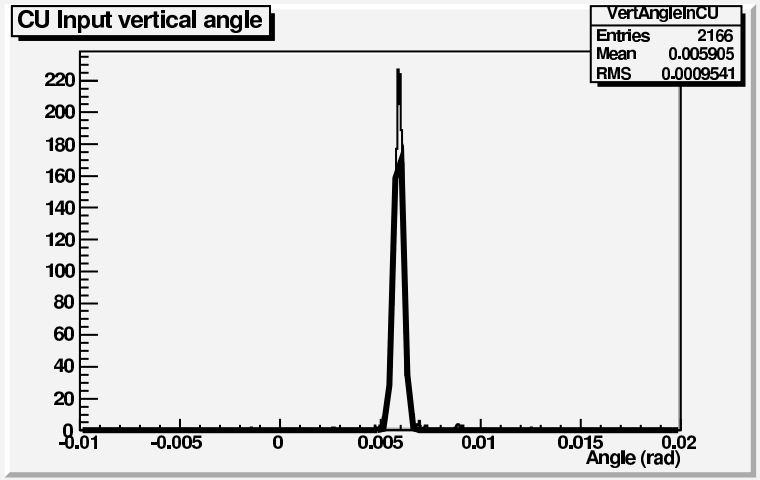

CU Input Beam Spot
SpotCoordInCU
Entries 1946
Mean x 185.9
Mean y -74.67
RMS x 3.797
RMS y 3.462
Vertical Position (mm)
Horizontal Position (mm)

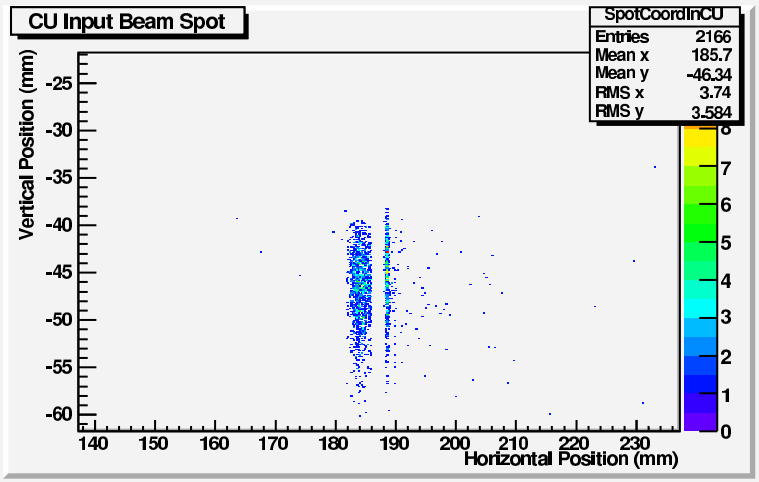

CU Input Beam Spot
SpotAngleInCU
Entries 1946
Mean x 0.005903
Mean y 0.009181
RMS x 0.0007312
RMS y 0.0007095
Vertical Angle (rad)
Horizontal Angle (rad)

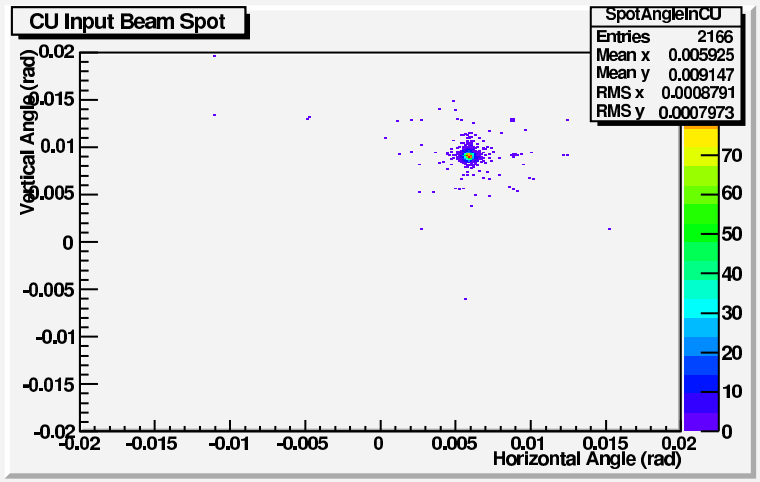

CU Input Horizontal coordinate
HorCoordInCU
Entries 2166
Mean 186
RMS 6.22
Position (mm)

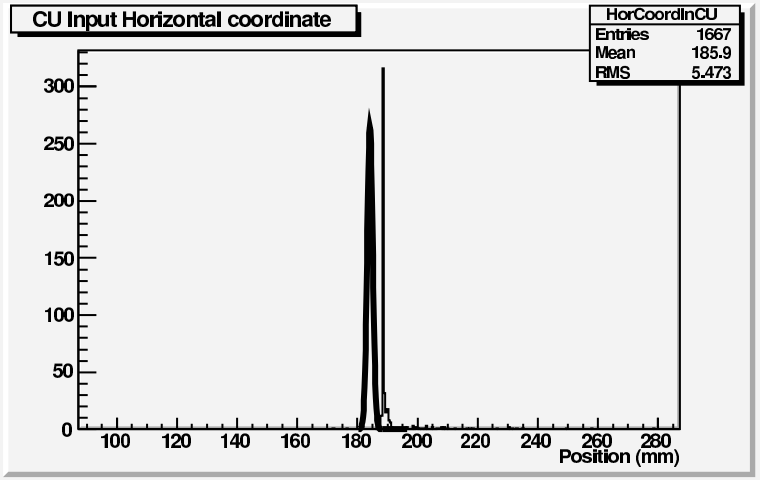

CU Input vertical coordinate
VertCoordInCU
Entries 2166
Mean -46.45
RMS 4.33
Position (mm)

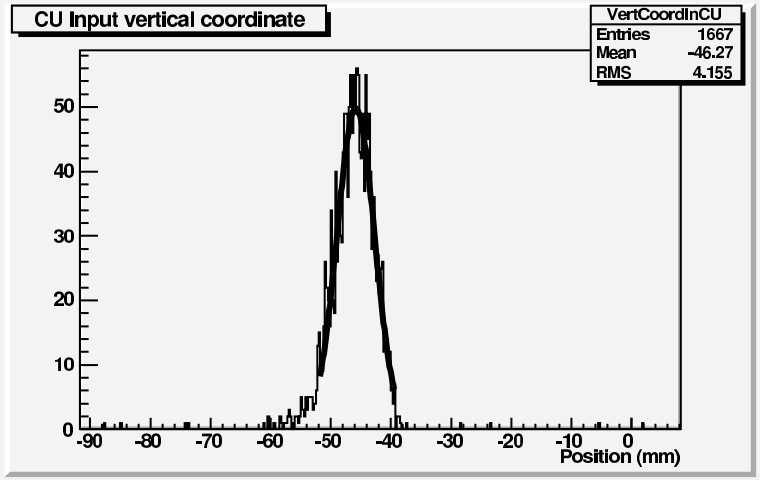

CU Input horizontal angle
HorAngleInCU
Entries 2166
Mean 0.009134
RMS 0.0009517
Angle (rad)

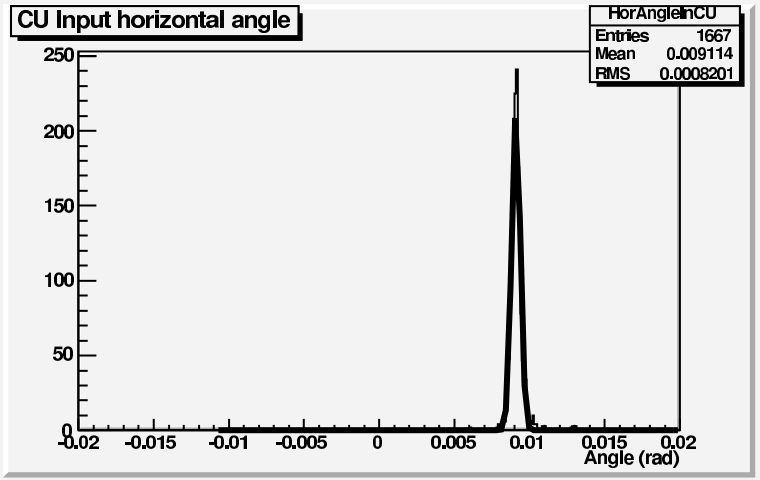

CU Input vertical angle
VertAngleInCU
Entries 2166
Mean 0.005905
RMS 0.0009541
Angle (rad)

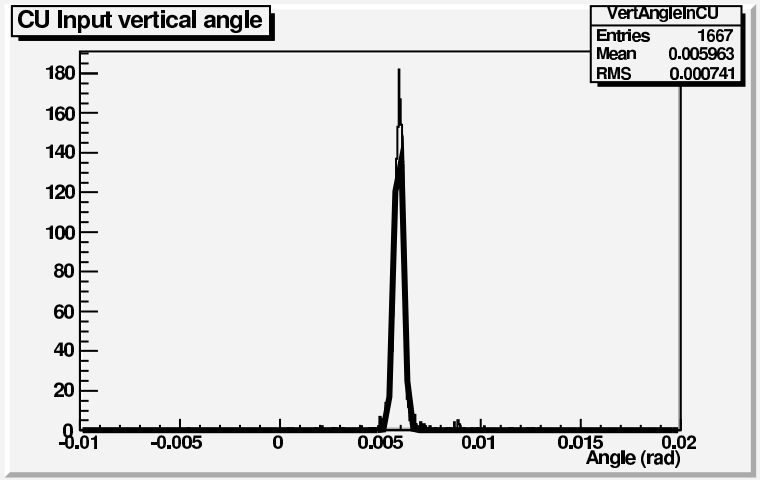

CU Input Beam Spot
SpotCoordInCU
Entries 2166
Mean x 185.7
Mean y -46.34
RMS x 3.74
RMS y 3.584
Vertical Position (mm)
Horizontal Position (mm)

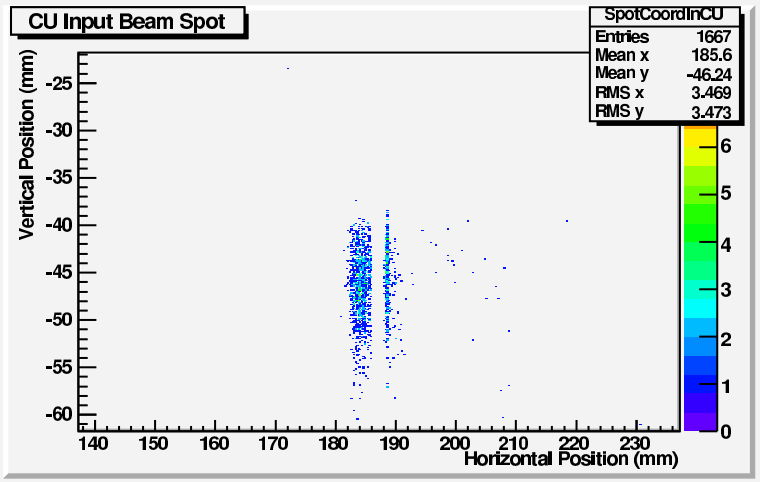

CU Input Beam Spot
SpotAngleInCU
Entries 2166
Mean x 0.005925
Mean y 0.009147
RMS x 0.0008791
RMS y 0.0007973
Vertical Angle (rad)
Horizontal Angle (rad)

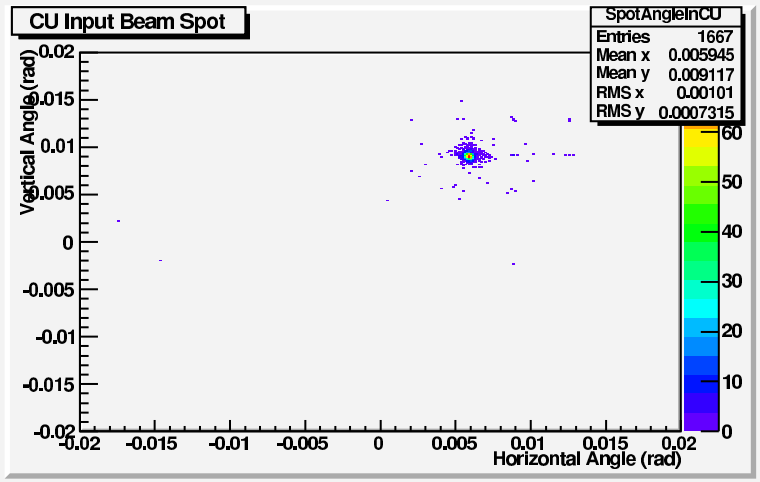

CU Input Horizontal coordinate
HorCoordInCU
Entries 1667
Mean 185.9
RMS 5.473
Position (mm)

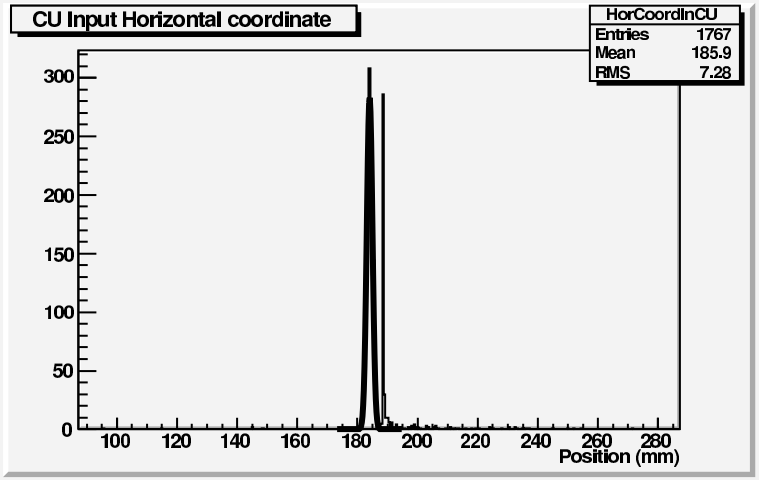

CU Input vertical coordinate
VertCoordInCU
Entries 1667
Mean -46.27
RMS 4.155
Position (mm)

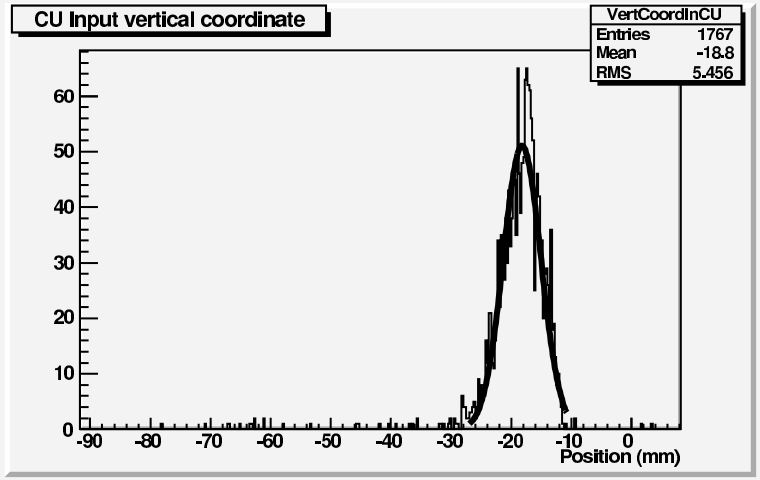

CU Input horizontal angle
HorAngleInCU
Entries 1667
Mean 0.009114
RMS 0.0008201
Angle (rad)

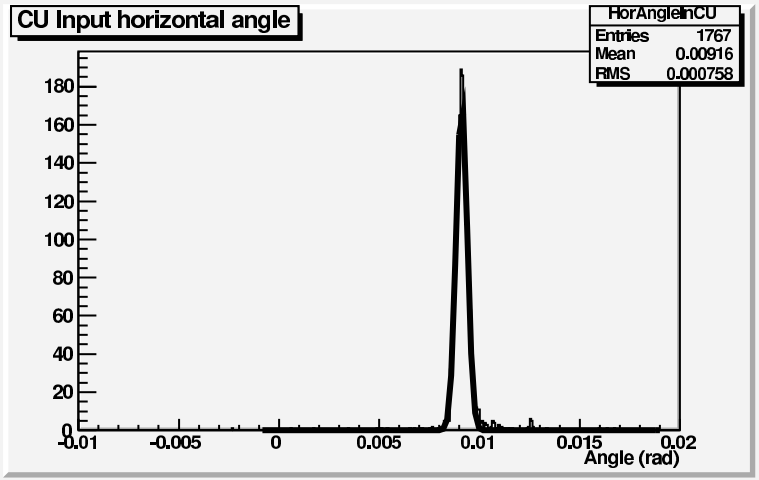

CU Input vertical angle
VertAngleInCU
Entries 1667
Mean 0.005963
RMS 0.000741
Angle (rad)

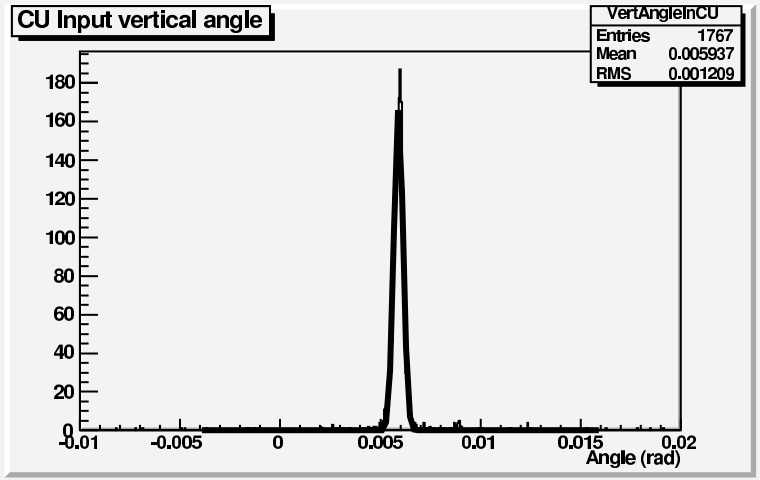

CU Input Beam Spot
SpotCoordInCU
Entries 1667
Mean x 185.6
Mean y -46.24
RMS x 3.469
RMS y 3.473
Vertical Position (mm)
Horizontal Position (mm)

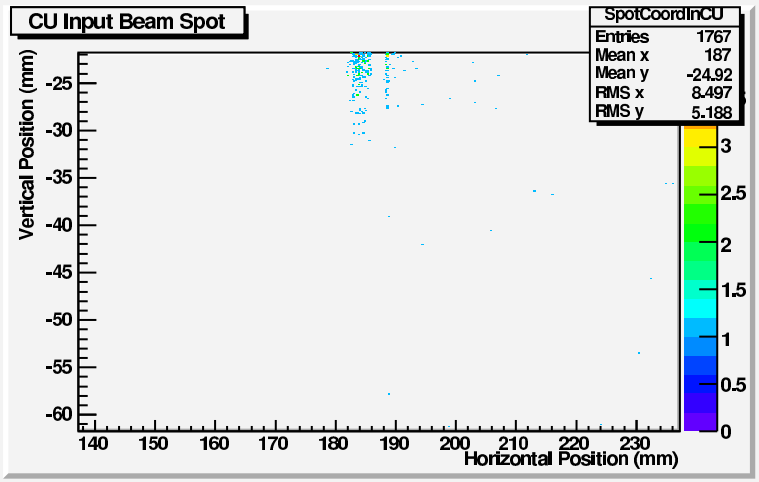

CU Input Beam Spot
SpotAngleInCU
Entries 1667
Mean x 0.005945
Mean y 0.009117
RMS x 0.00101
RMS y 0.0007315
Vertical Angle (rad)
Horizontal Angle (rad)

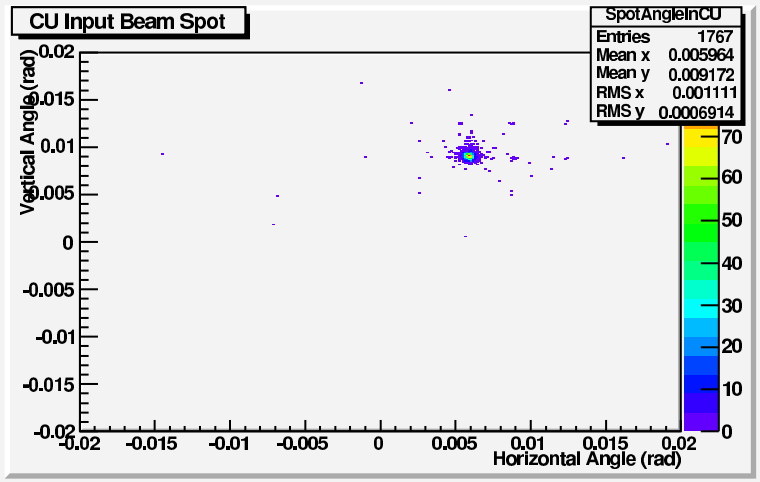

CU Input Horizontal coordinate
HorCoordInCU
Entries 1767
Mean 185.9
RMS 7.28
Position (mm)

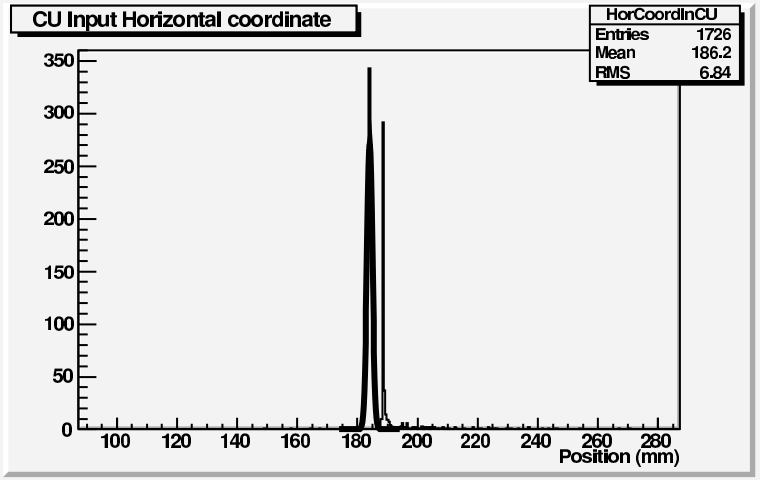

CU Input vertical coordinate
VertCoordInCU
Entries 1767
Mean -18.8
RMS 5.456
Position (mm)

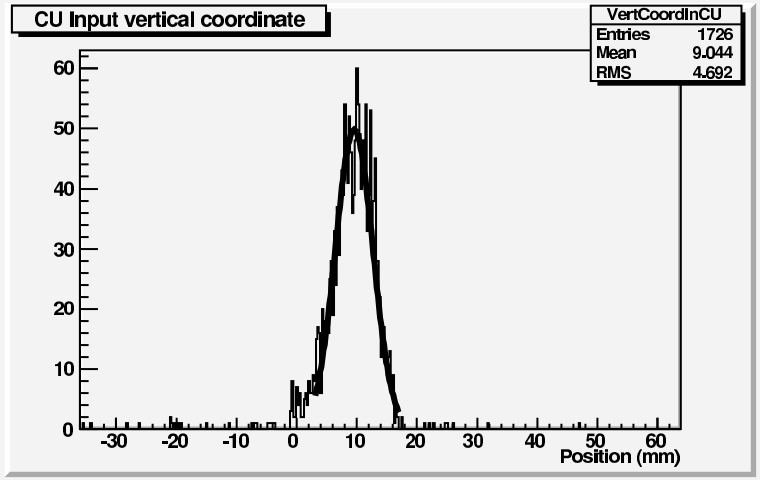

CU Input horizontal angle
HorAngleInCU
Entries 1767
Mean 0.00916
RMS 0.000758
Angle (rad)

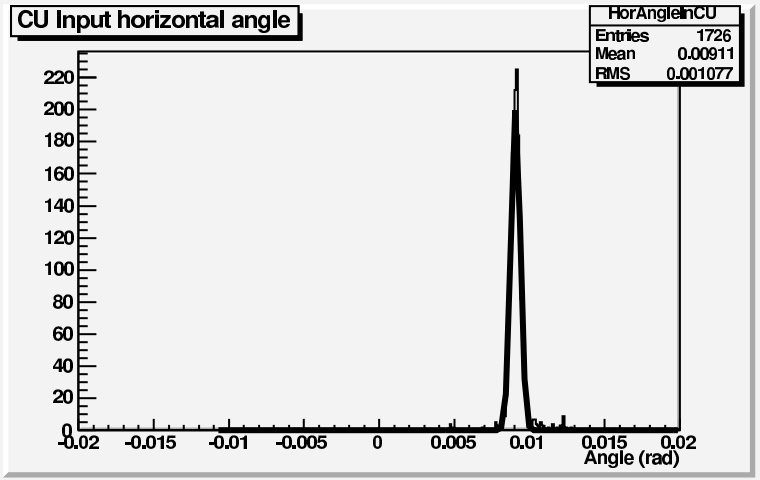

CU Input vertical angle
VertAngleInCU
Entries 1767
Mean 0.005937
RMS 0.001209
Angle (rad)

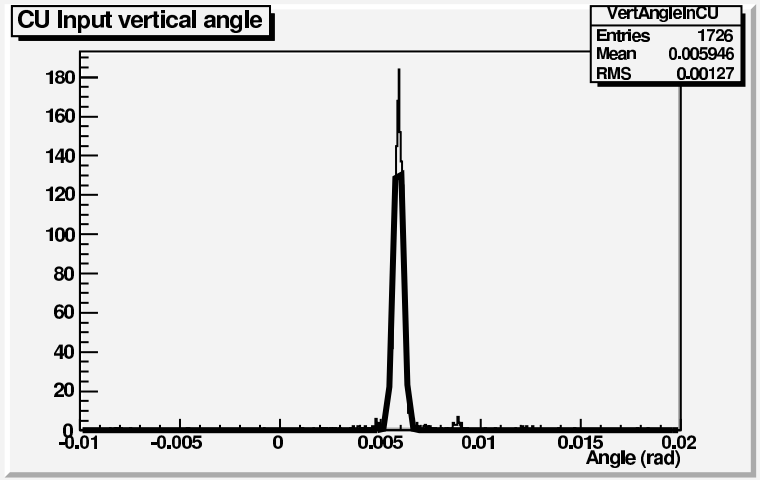

CU Input Beam Spot
SpotCoordInCU
Entries 1767
Mean x 187
Mean y -24.92
RMS x 8.497
RMS y 5.188
Vertical Position (mm)
Horizontal Position (mm)

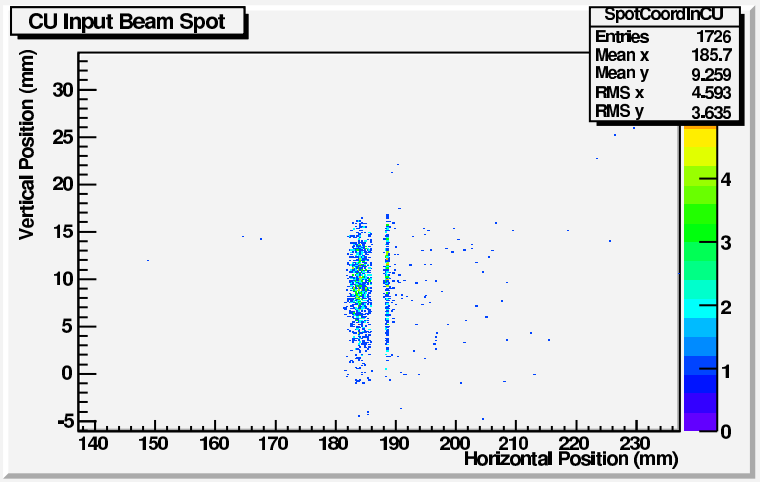

CU Input Beam Spot
SpotAngleInCU
Entries 1767
Mean x 0.005964
Mean y 0.009172
RMS x 0.001111
RMS y 0.0006914
Vertical Angle (rad)
Horizontal Angle (rad)

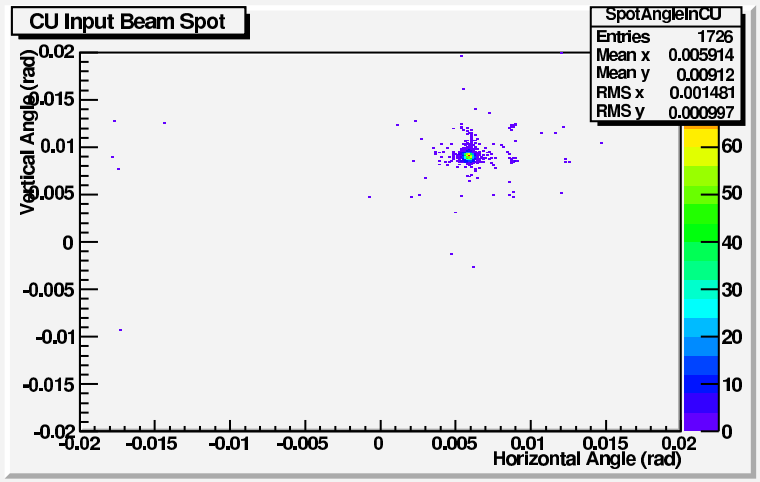

CU Input Horizontal coordinate
HorCoordInCU
Entries 1726
Mean 186.2
RMS 6.84
Position (mm)

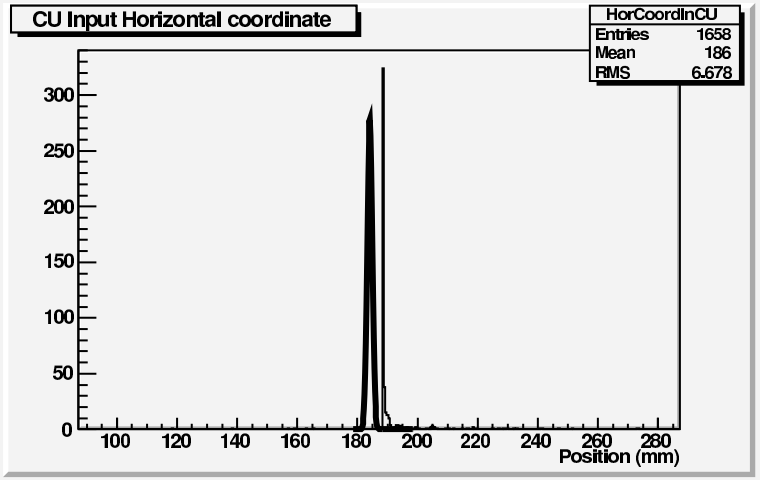

CU Input vertical coordinate
VertCoordInCU
Entries 1726
Mean 9.044
RMS 4.692
Position (mm)

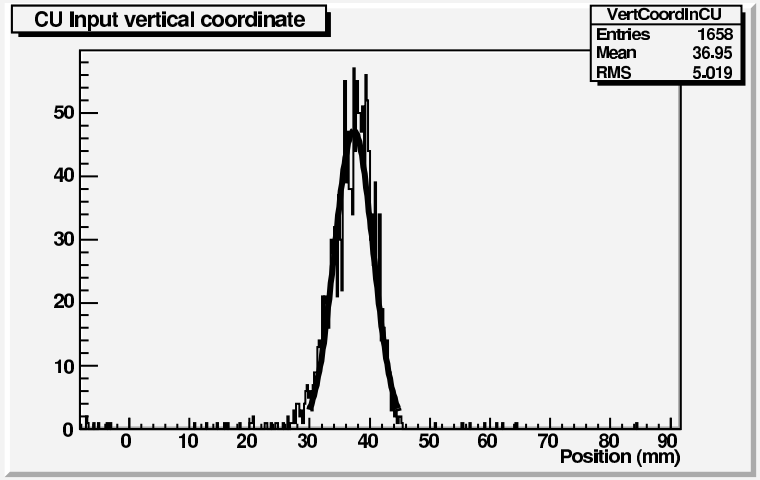

CU Input horizontal angle
HorAngleInCU
Entries 1726
Mean 0.00911
RMS 0.001077
Angle (rad)

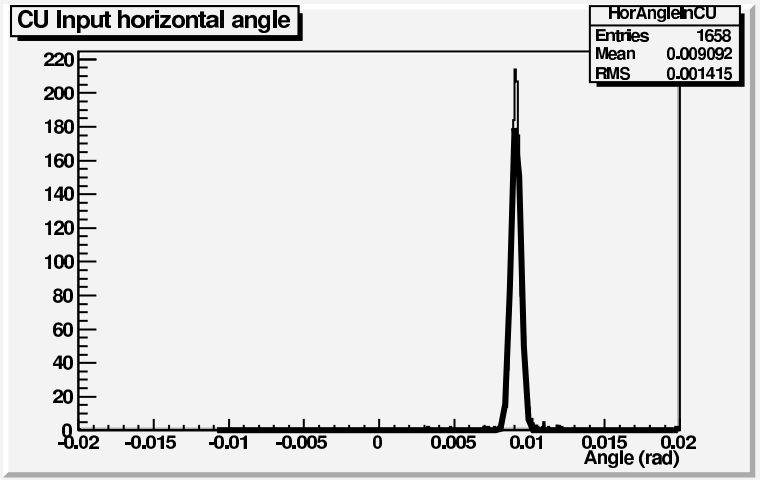

CU Input vertical angle
VertAngleInCU
Entries 1726
Mean 0.005946
RMS 0.00127
Angle (rad)

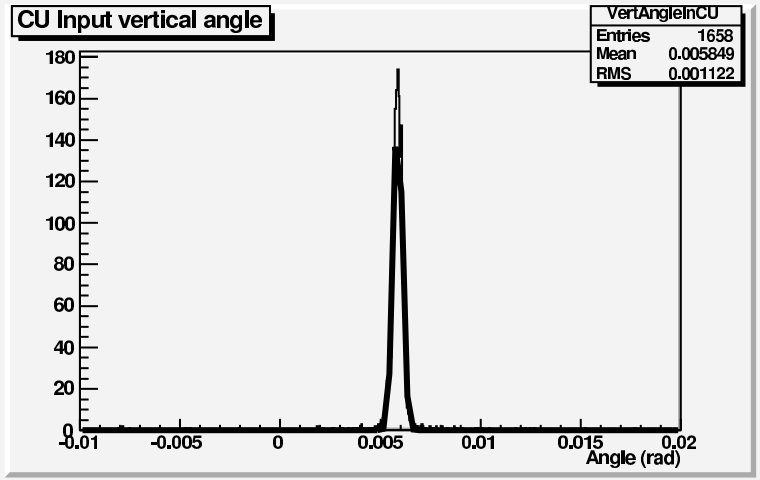

CU Input Beam Spot
SpotCoordInCU
Entries 1726
Mean x 185.7
Mean y 9.259
RMS x 4.593
RMS y 3.635
Vertical Position (mm)
Horizontal Position (mm)

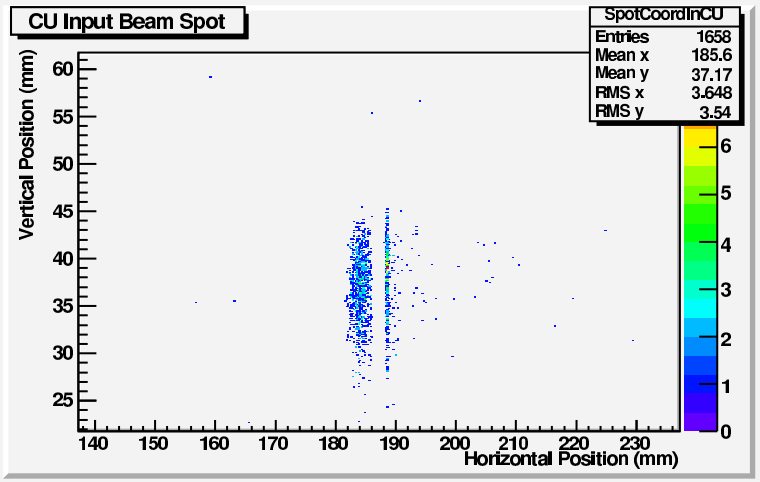

CU Input Beam Spot
SpotAngleInCU
Entries 1726
Mean x 0.005914
Mean y 0.00912
RMS x 0.001481
RMS y 0.000997
Vertical Angle (rad)
Horizontal Angle (rad)

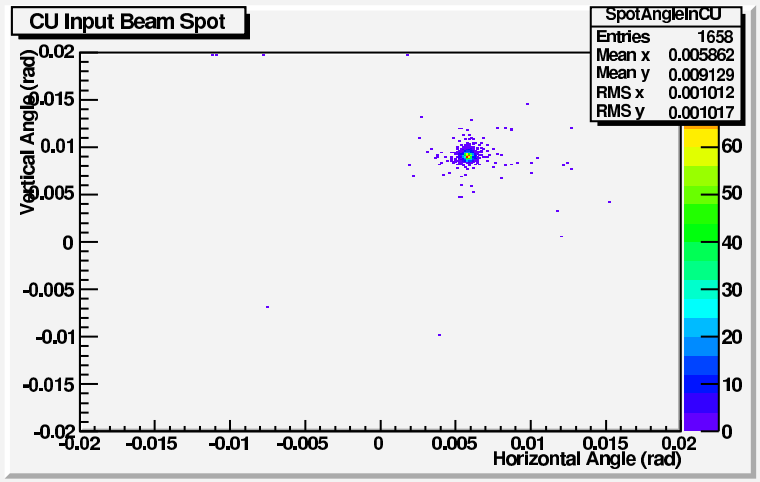

CU Input Horizontal coordinate
HorCoordInCU
Entries 1658
Mean 186
RMS 6.678
Position (mm)

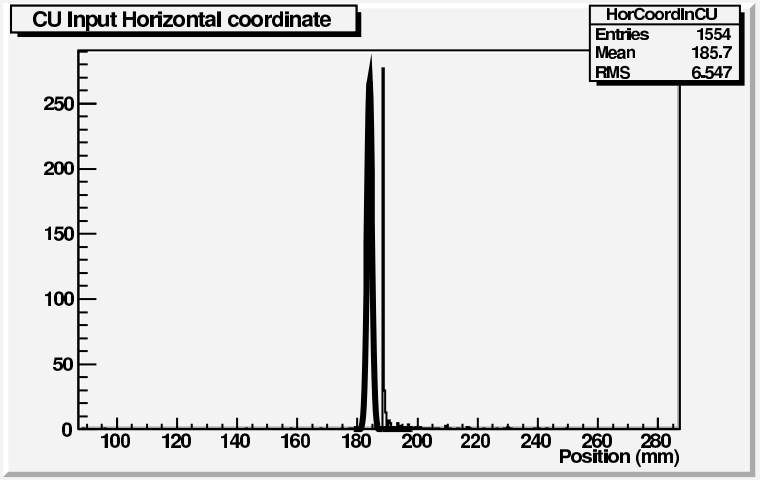

CU Input vertical coordinate
VertCoordInCU
Entries 1658
Mean 36.95
RMS 5.019
Position (mm)

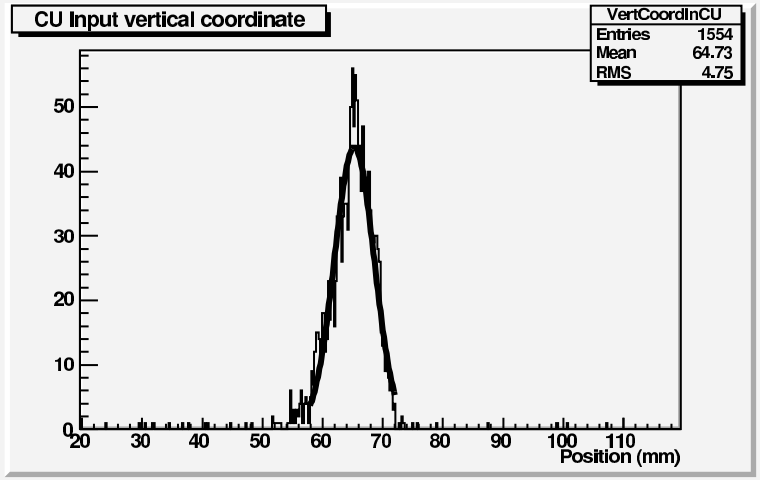

CU Input horizontal angle
HorAngleInCU
Entries 1658
Mean 0.009092
RMS 0.001415
Angle (rad)

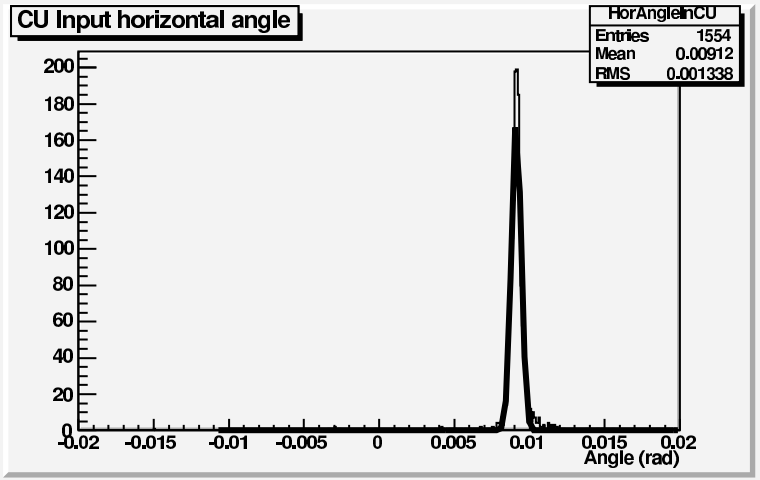

CU Input vertical angle
VertAngleInCU
Entries 1658
Mean 0.005849
RMS 0.001122
Angle (rad)

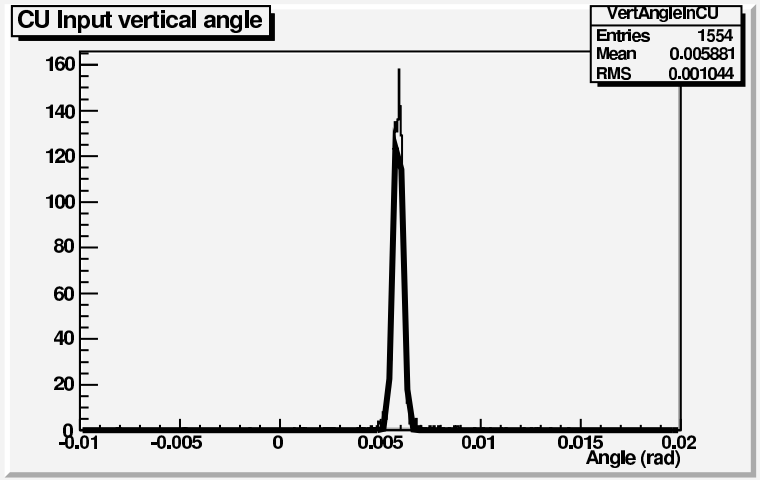

CU Input Beam Spot
SpotCoordInCU
Entries 1658
Mean x 185.6
Mean y 37.17
RMS x 3.648
RMS y 3.54
Vertical Position (mm)
Horizontal Position (mm)

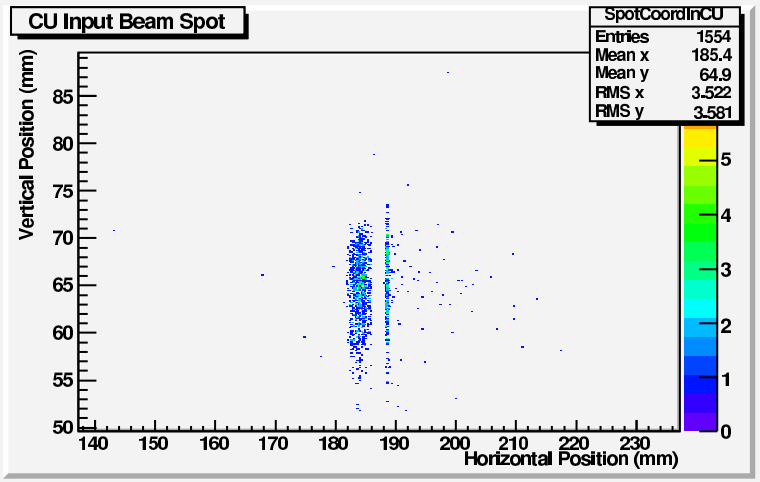

CU Input Beam Spot
SpotAngleInCU
Entries 1658
Mean x 0.005862
Mean y 0.009129
RMS x 0.001012
RMS y 0.001017
Vertical Angle (rad)
Horizontal Angle (rad)

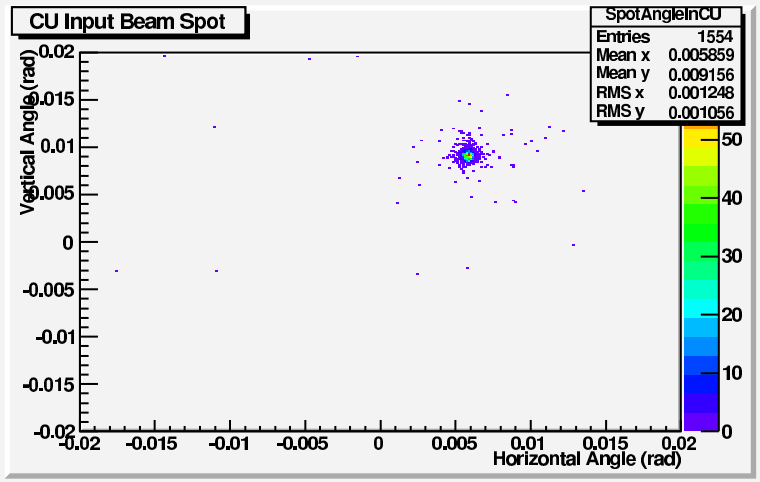

CU Input Horizontal coordinate
HorCoordInCU
Entries 1554
Mean 185.7
RMS 6.547
Position (mm)

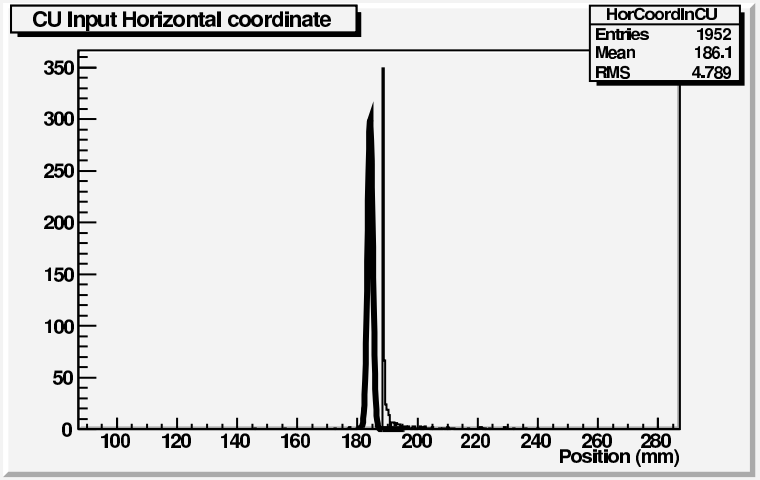

CU Input vertical coordinate
VertCoordInCU
Entries 1554
Mean 64.73
RMS 4.75
Position (mm)

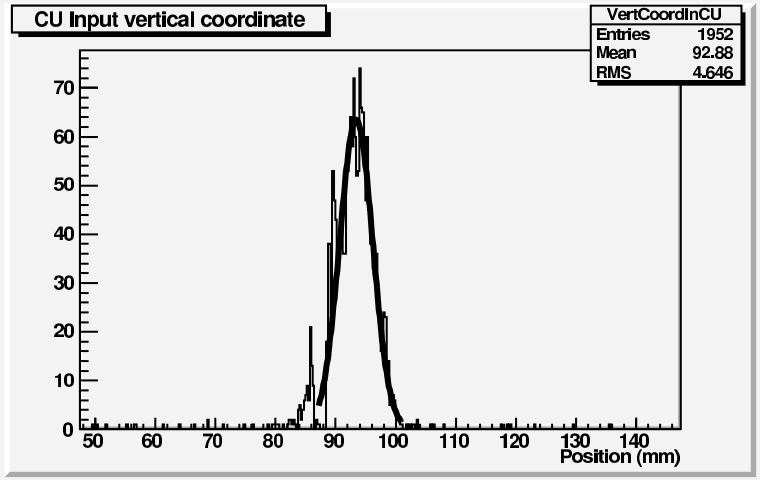

CU Input horizontal angle
HorAngleInCU
Entries 1554
Mean 0.00912
RMS 0.001338
Angle (rad)

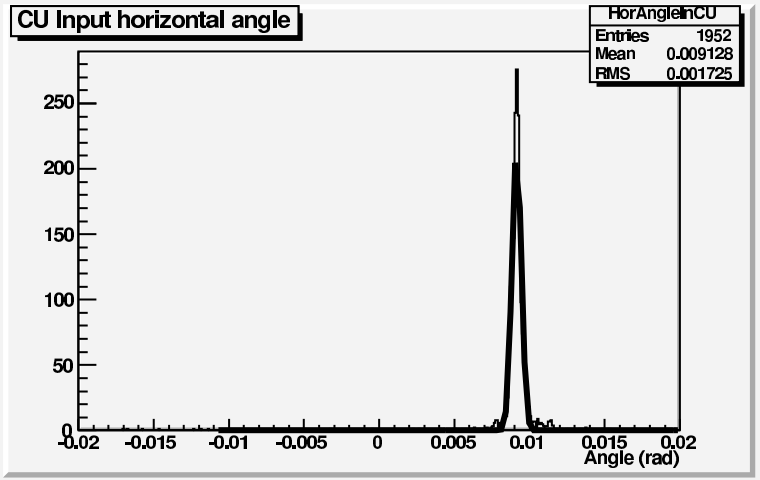

CU Input vertical angle
VertAngleInCU
Entries 1554
Mean 0.005881
RMS 0.001044
Angle (rad)

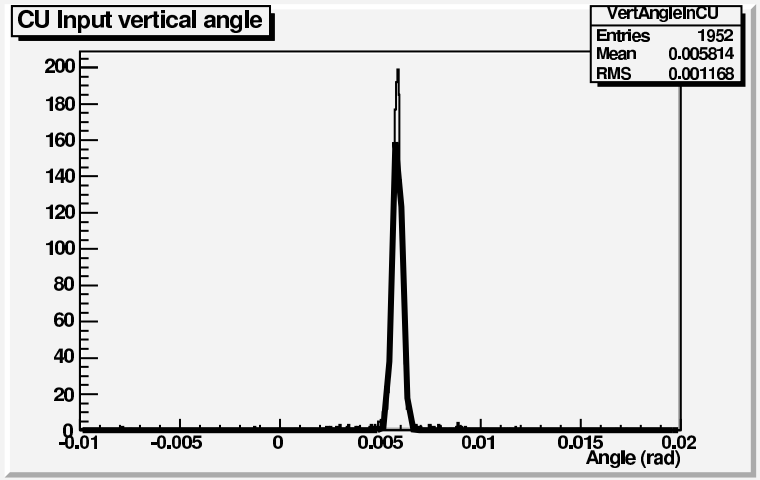

CU Input Beam Spot
SpotCoordInCU
Entries 1554
Mean x 185.4
Mean y 64.9
RMS x 3.522
RMS y 3.581
Vertical Position (mm)
Horizontal Position (mm)

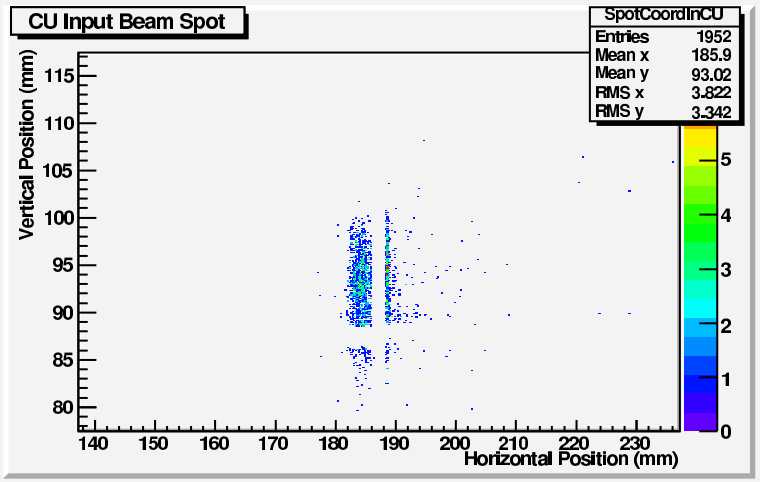

CU Input Beam Spot
SpotAngleInCU
Entries 1554
Mean x 0.005859
Mean y 0.009156
RMS x 0.001248
RMS y 0.001056
Vertical Angle (rad)
Horizontal Angle (rad)

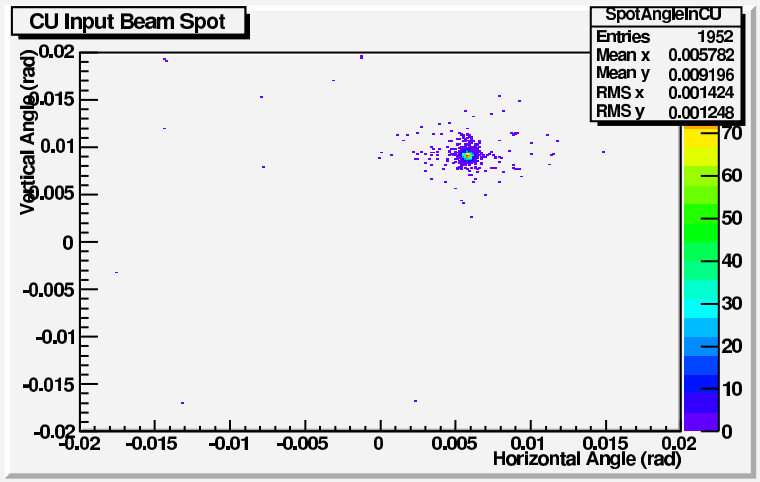

CU Input Horizontal coordinate
HorCoordInCU
Entries 1952
Mean 186.1
RMS 4.789
Position (mm)

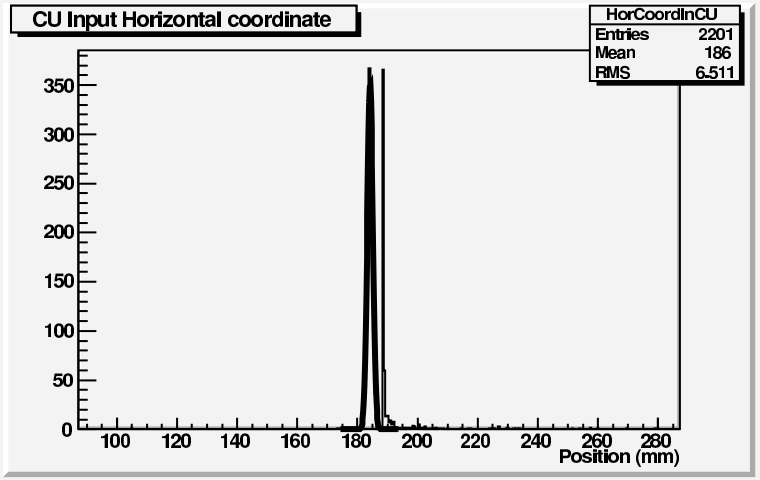

CU Input vertical coordinate
VertCoordInCU
Entries 1952
Mean 92.88
RMS 4.646
Position (mm)

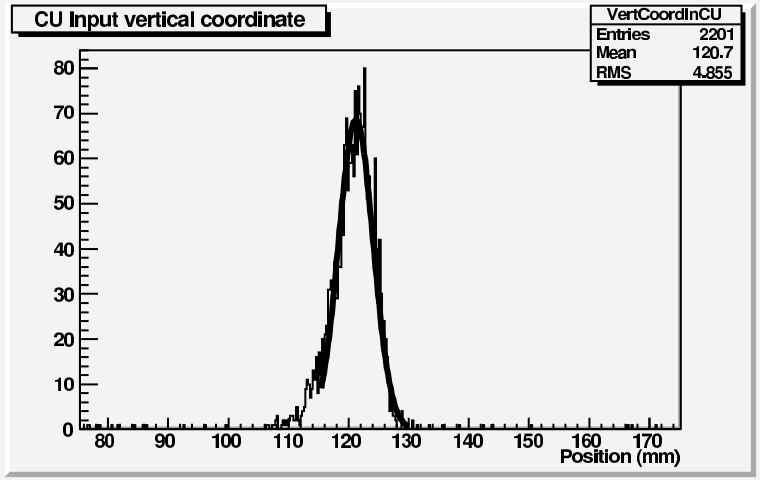

CU Input horizontal angle
HorAngleInCU
Entries 1952
Mean 0.009128
RMS 0.001725
Angle (rad)

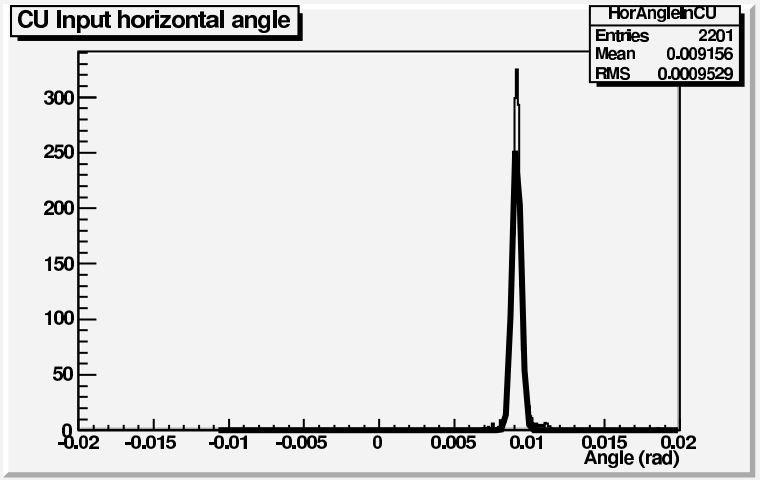

CU Input vertical angle
VertAngleInCU
Entries 1952
Mean 0.005814
RMS 0.001168
Angle (rad)

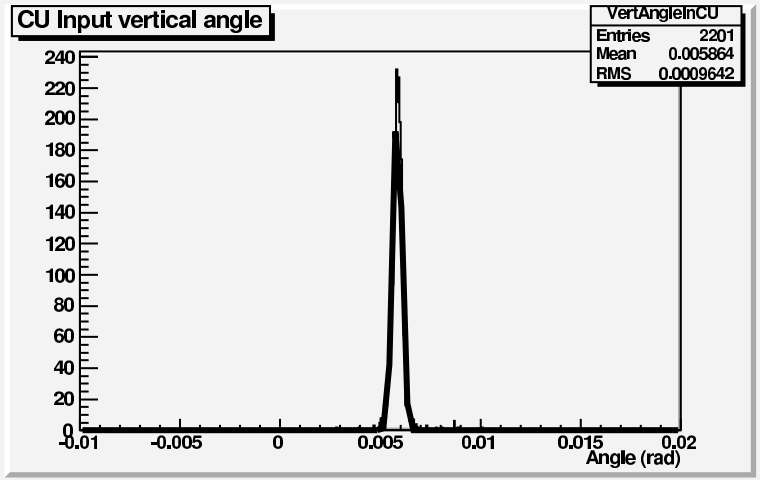

CU Input Beam Spot
SpotCoordInCU
Entries 1952
Mean x 185.9
Mean y 93.02
RMS x 3.822
RMS y 3.342
Vertical Position (mm)
Horizontal Position (mm)

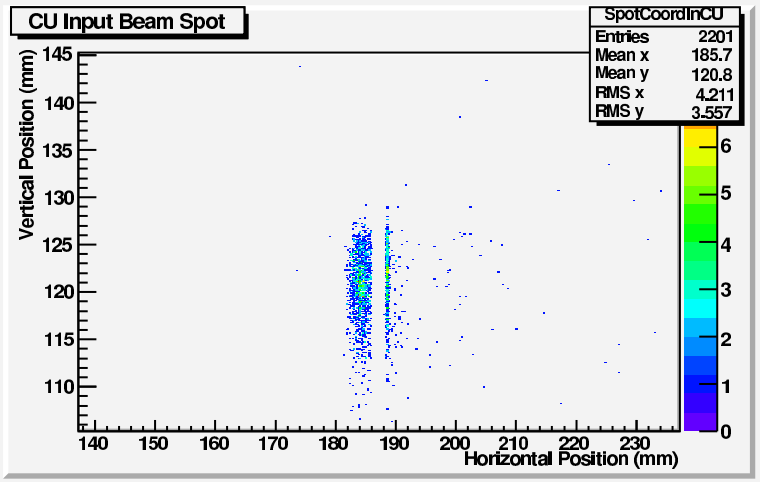

CU Input Beam Spot
SpotAngleInCU
Entries 1952
Mean x 0.005782
Mean y 0.009196
RMS x 0.001424
RMS y 0.001248
Vertical Angle (rad)
Horizontal Angle (rad)

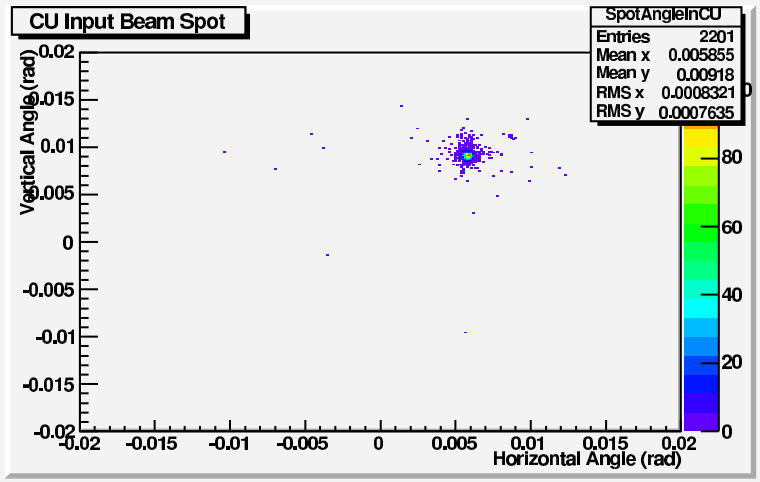

CU Input Horizontal coordinate
HorCoordInCU
Entries 2201
Mean 186
RMS 6.511
Position (mm)

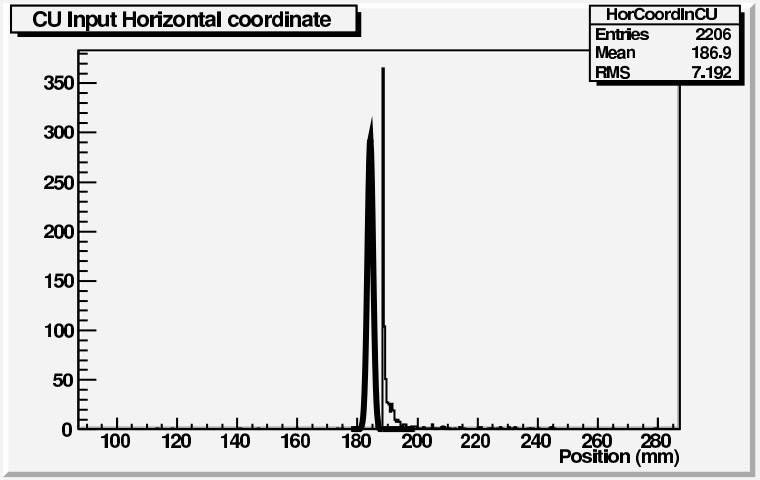

CU Input vertical coordinate
VertCoordInCU
Entries 2201
Mean 120.7
RMS 4.855
Position (mm)

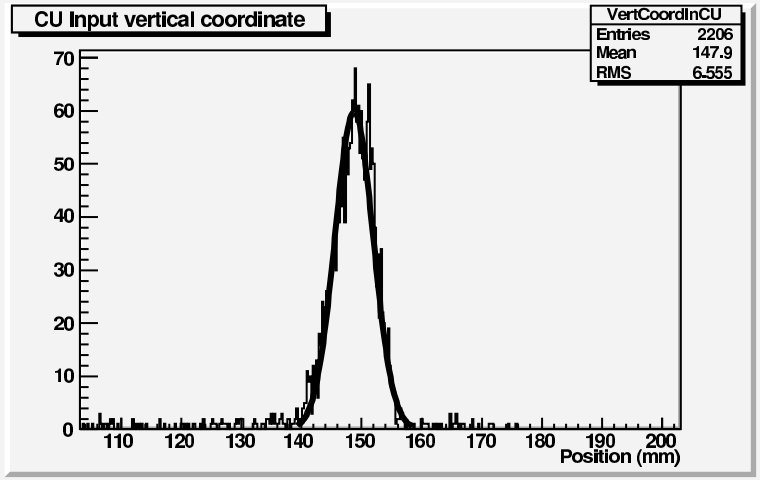

CU Input horizontal angle
HorAngleInCU
Entries 2201
Mean 0.009156
RMS 0.0009529
Angle (rad)

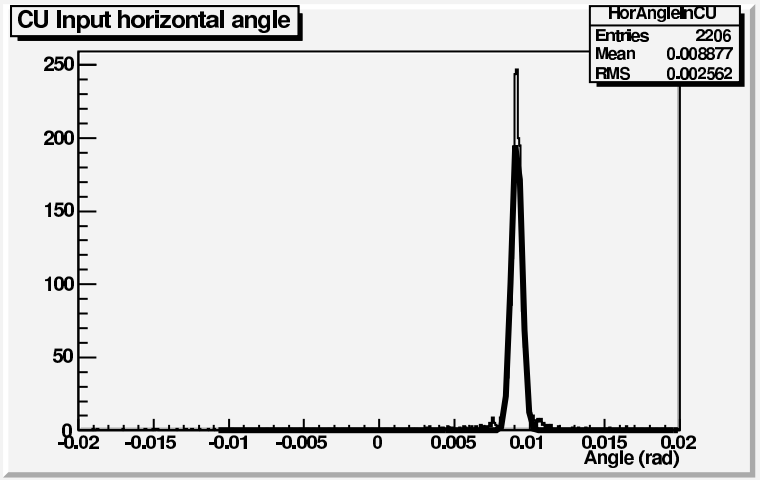

CU Input vertical angle
VertAngleInCU
Entries 2201
Mean 0.005864
RMS 0.0009642
Angle (rad)

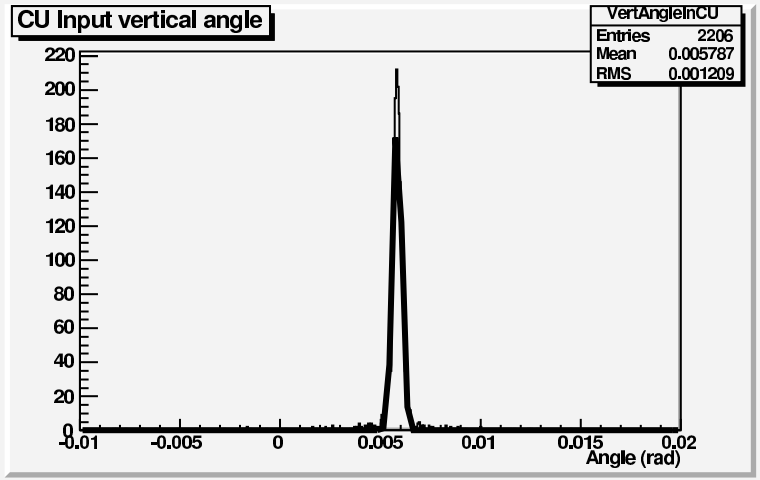

CU Input Beam Spot
SpotCoordInCU
Entries 2201
Mean x 185.7
Mean y 120.8
RMS x 4.211
RMS y 3.557
Vertical Position (mm)
Horizontal Position (mm)

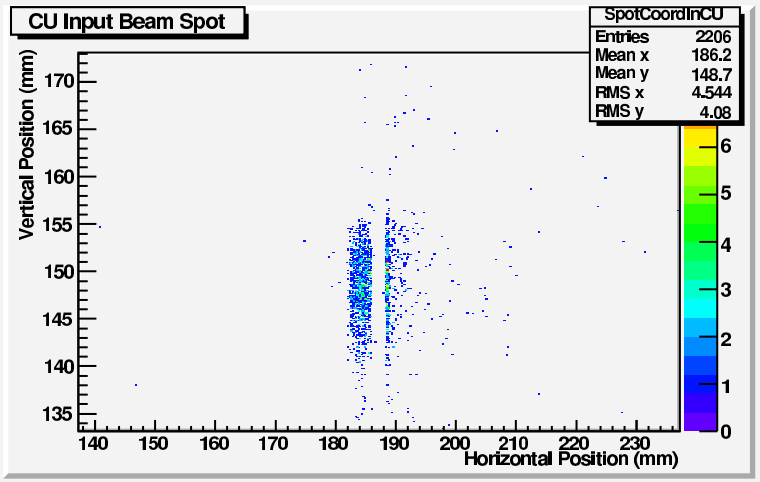

CU Input Beam Spot
SpotAngleInCU
Entries 2201
Mean x 0.005855
Mean y 0.00918
RMS x 0.0008321
RMS y 0.0007635
Vertical Angle (rad)
Horizontal Angle (rad)

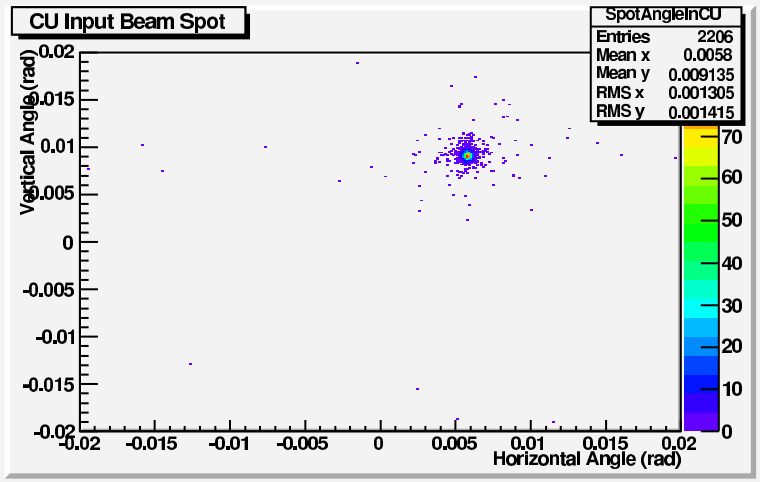

CU Input Horizontal coordinate
HorCoordInCU
Entries 2206
Mean 186.9
RMS 7.192
Position (mm)

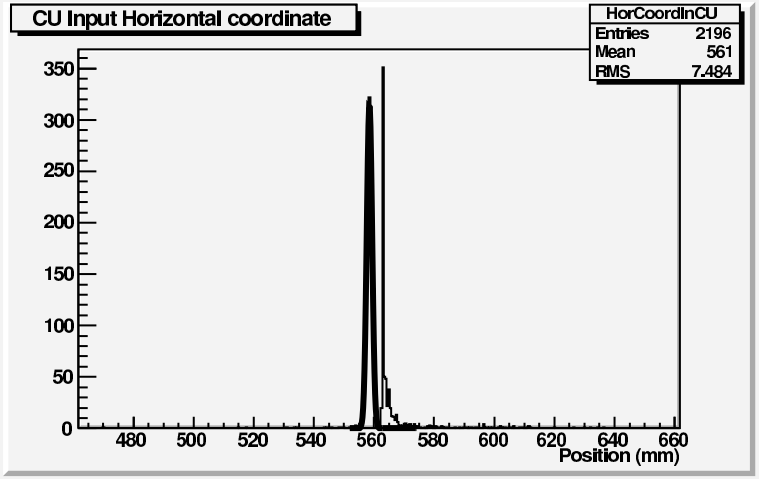

CU Input vertical coordinate
VertCoordInCU
Entries 2206
Mean 147.9
RMS 6.555
Position (mm)

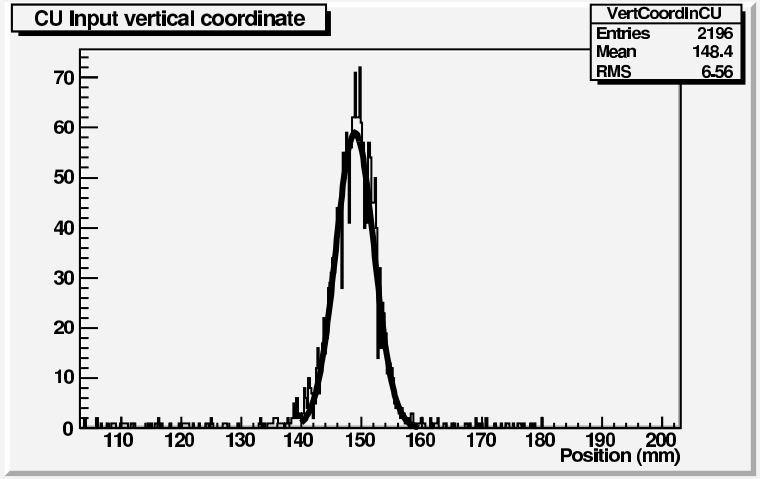

CU Input horizontal angle
HorAngleInCU
Entries 2206
Mean 0.008877
RMS 0.002562
Angle (rad)

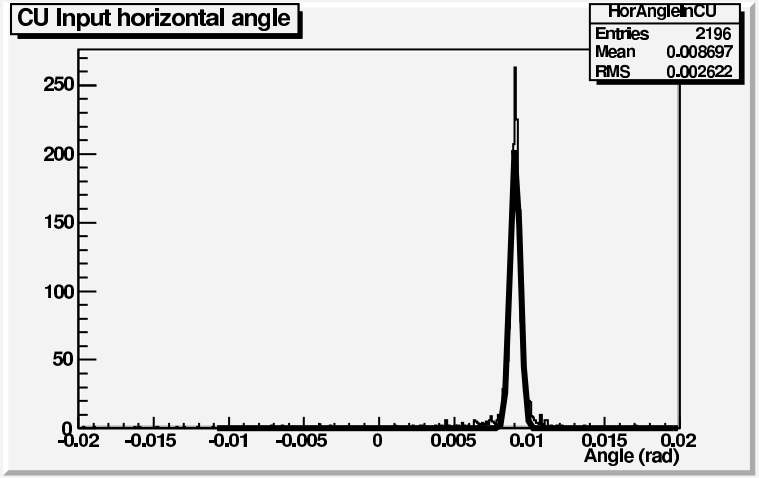

CU Input vertical angle
VertAngleInCU
Entries 2206
Mean 0.005787
RMS 0.001209
Angle (rad)

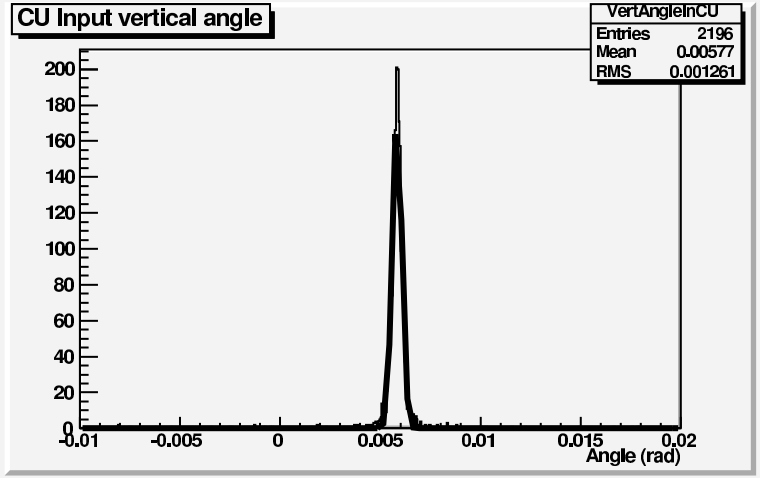

CU Input Beam Spot
SpotCoordInCU
Entries 2206
Mean x 186.2
Mean y 148.7
RMS x 4.544
RMS y 4.08
Vertical Position (mm)
Horizontal Position (mm)

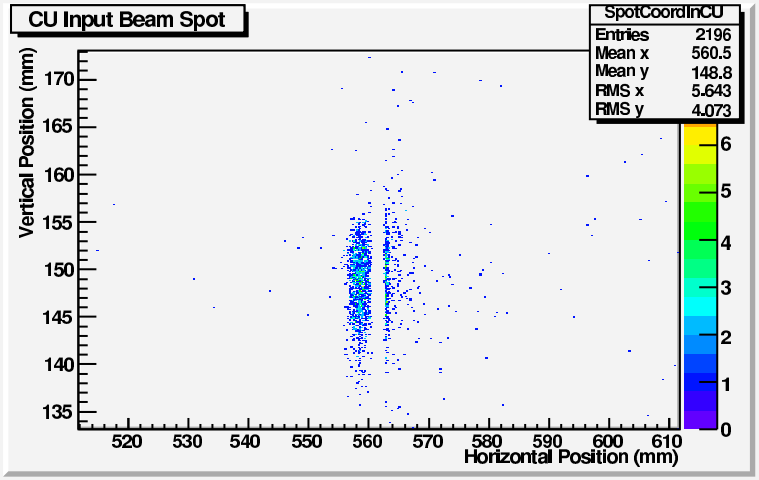

CU Input Beam Spot
SpotAngleInCU
Entries 2206
Mean x 0.0058
Mean y 0.009135
RMS x 0.001305
RMS y 0.001415
Vertical Angle (rad)
Horizontal Angle (rad)

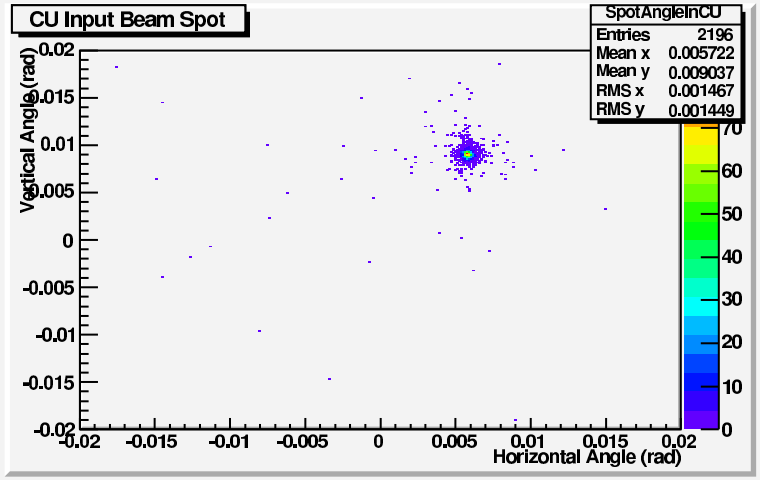

CU Input Horizontal coordinate
HorCoordInCU
Entries 2196
Mean 561
RMS 7.484
Position (mm)

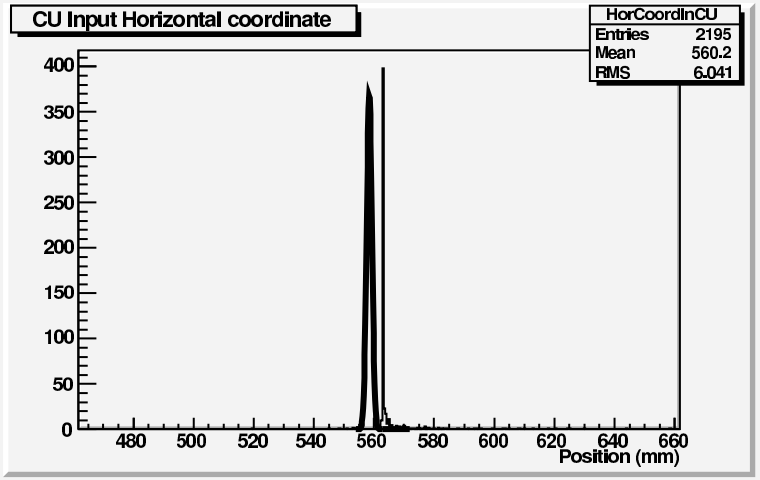

CU Input vertical coordinate
VertCoordInCU
Entries 2196
Mean 148.4
RMS 6.56
Position (mm)

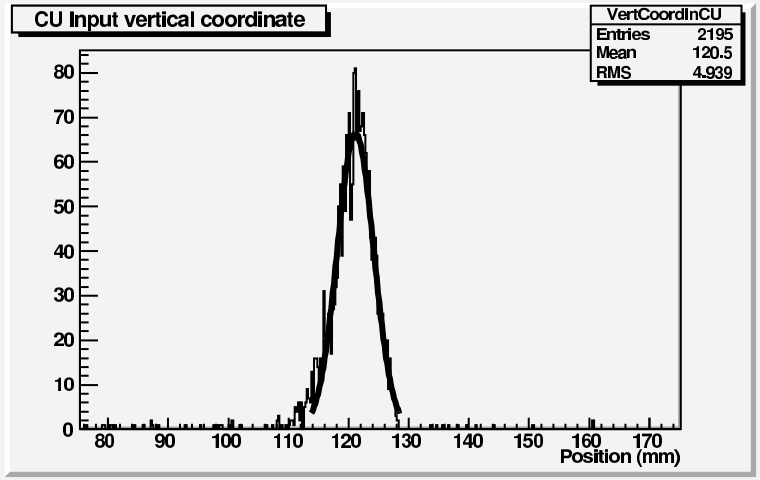

CU Input horizontal angle
HorAngleInCU
Entries 2196
Mean 0.008697
RMS 0.002622
Angle (rad)

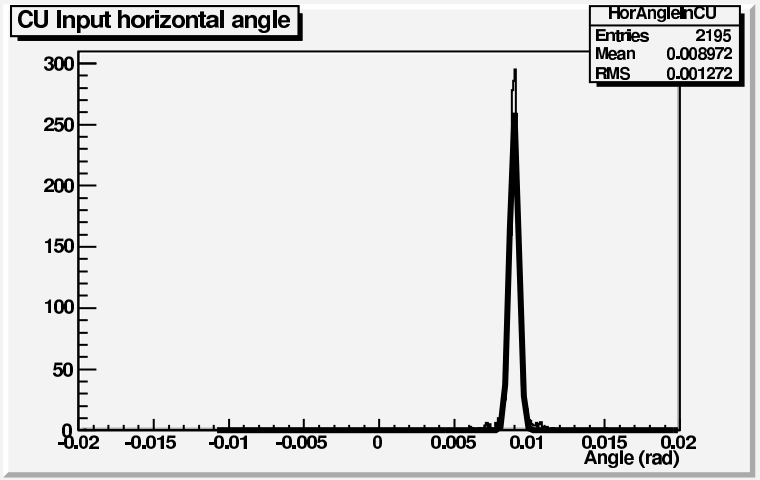

CU Input vertical angle
VertAngleInCU
Entries 2196
Mean 0.00577
RMS 0.001261
Angle (rad)

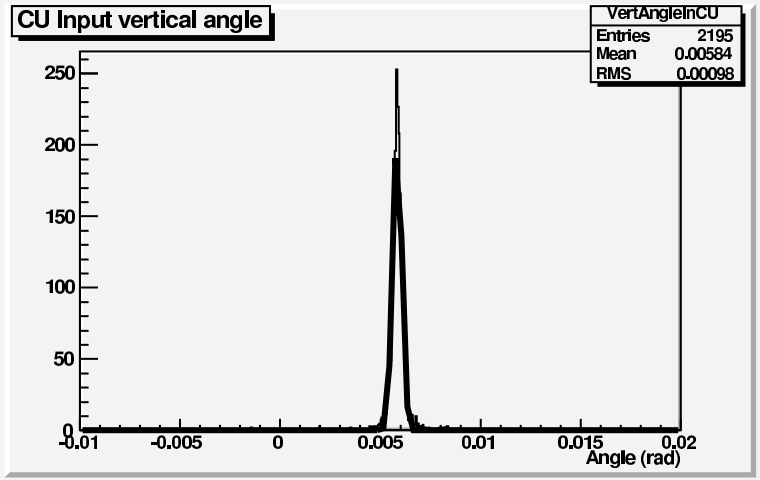

CU Input Beam Spot
SpotCoordInCU
Entries 2196
Mean x 560.5
Mean y 148.8
RMS x 5.643
RMS y 4.073
Vertical Position (mm)
Horizontal Position (mm)

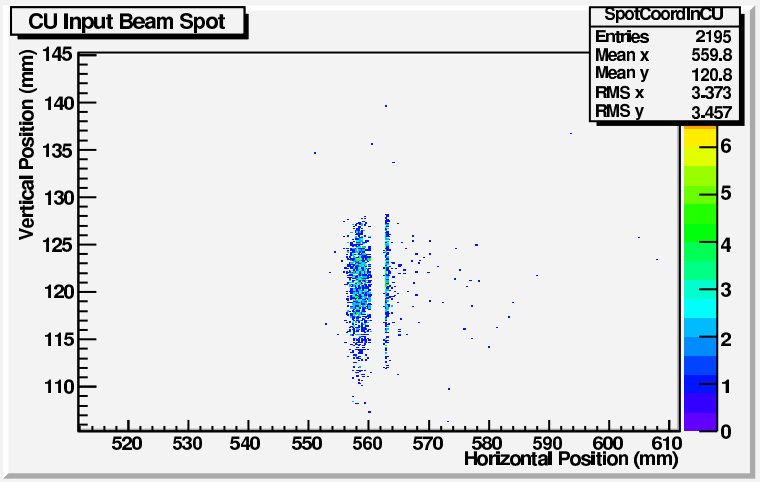

CU Input Beam Spot
SpotAngleInCU
Entries 2196
Mean x 0.005722
Mean y 0.009037
RMS x 0.001467
RMS y 0.001449
Vertical Angle (rad)
Horizontal Angle (rad)

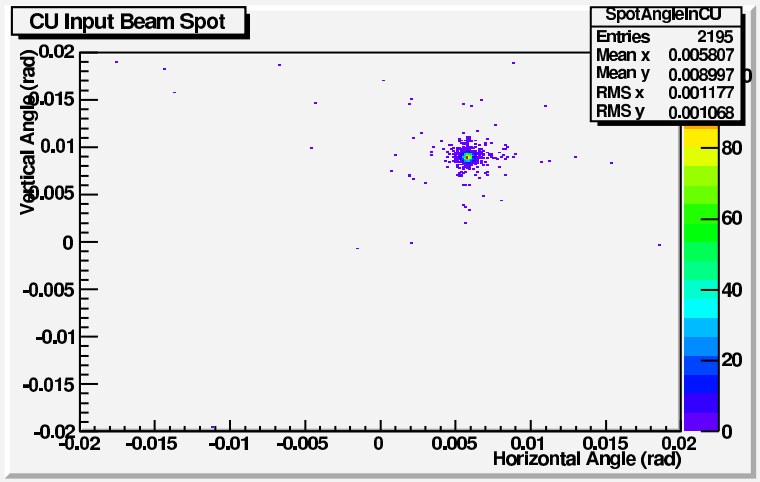

CU Input Horizontal coordinate
HorCoordInCU
Entries 2195
Mean 560.2
RMS 6.041
Position (mm)

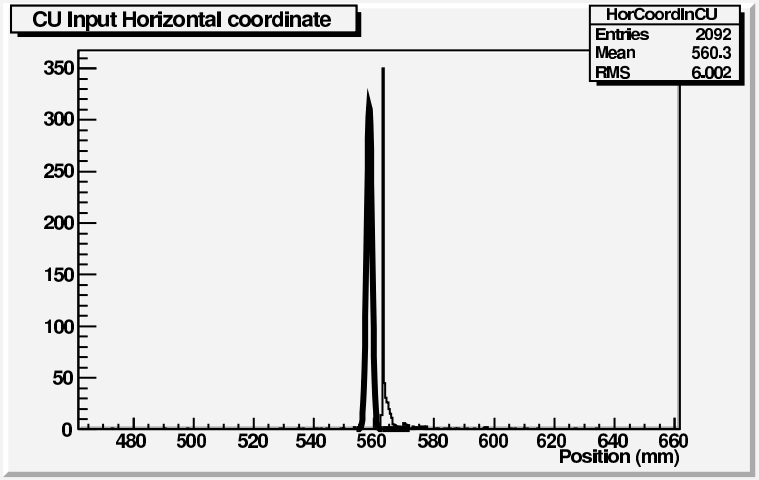

CU Input vertical coordinate
VertCoordInCU
Entries 2195
Mean 120.5
RMS 4.939
Position (mm)

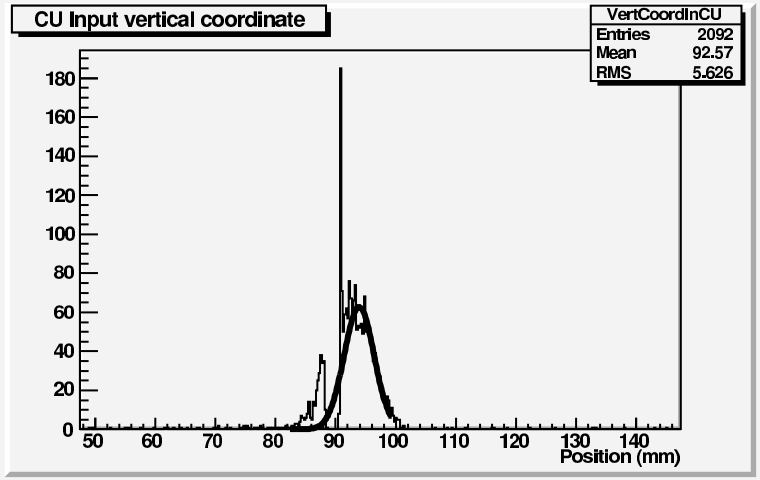

CU Input horizontal angle
HorAngleInCU
Entries 2195
Mean 0.008972
RMS 0.001272
Angle (rad)

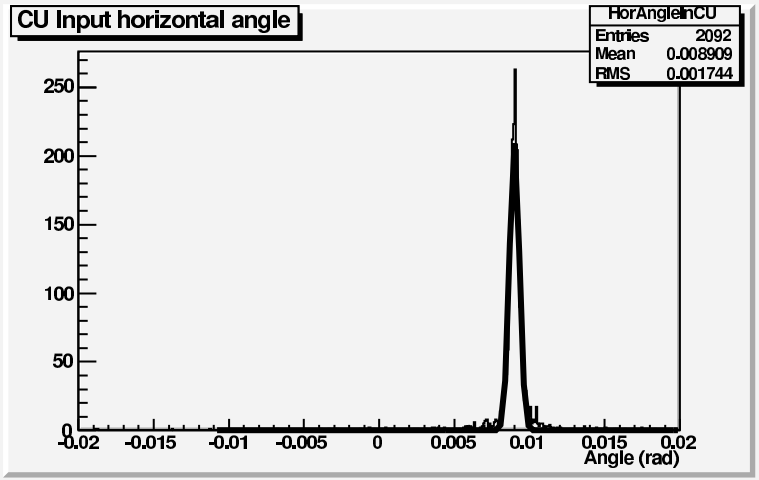

CU Input vertical angle
VertAngleInCU
Entries 2195
Mean 0.00584
RMS 0.00098
Angle (rad)

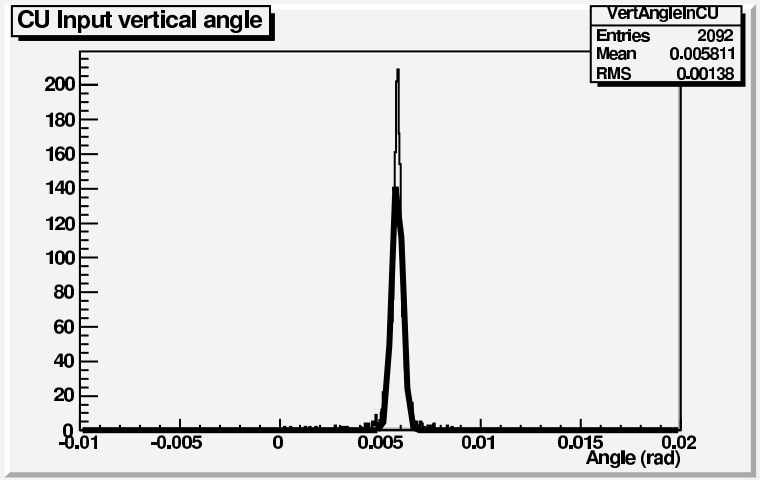

CU Input Beam Spot
SpotCoordInCU
Entries 2195
Mean x 559.8
Mean y 120.8
RMS x 3.373
RMS y 3.457
Vertical Position (mm)
Horizontal Position (mm)

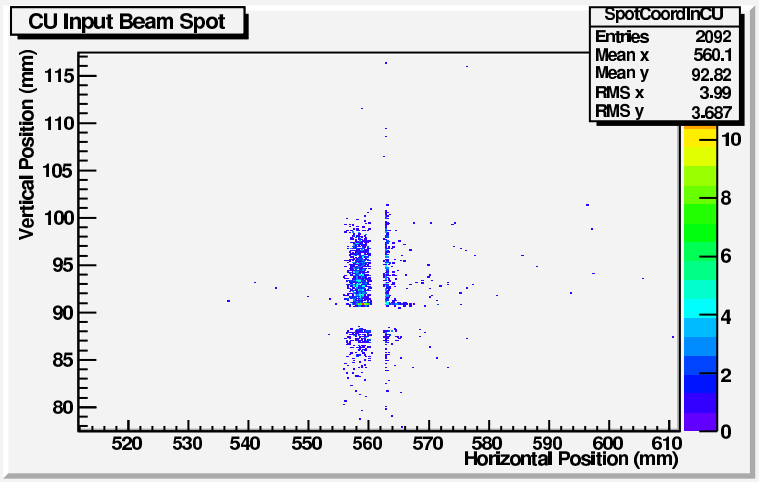

CU Input Beam Spot
SpotAngleInCU
Entries 2195
Mean x 0.005807
Mean y 0.008997
RMS x 0.001177
RMS y 0.001068
Vertical Angle (rad)
Horizontal Angle (rad)

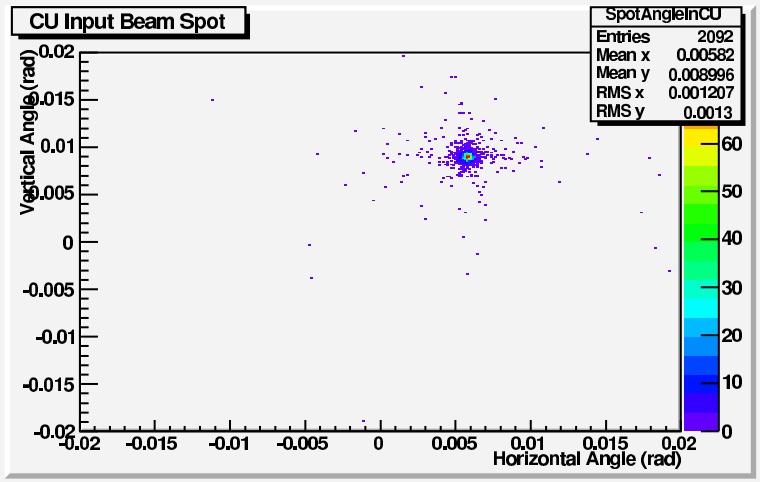

CU Input Horizontal coordinate
HorCoordInCU
Entries 2092
Mean 560.3
RMS 6.002
Position (mm)

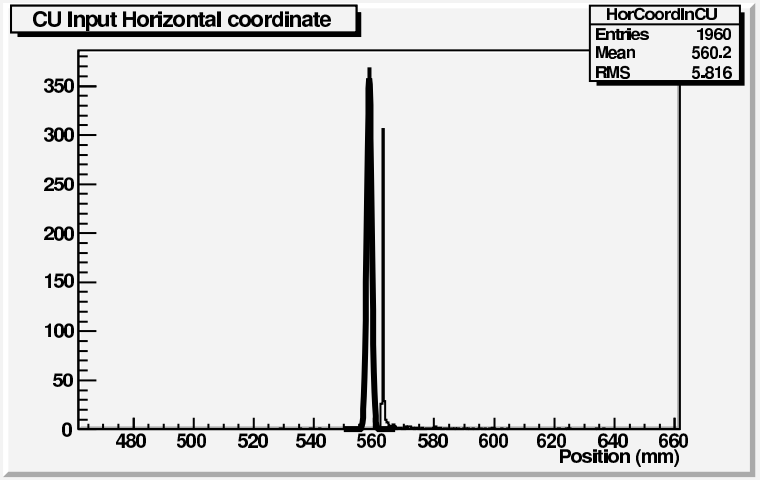

CU Input vertical coordinate
VertCoordInCU
Entries 2092
Mean 92.57
RMS 5.626
Position (mm)

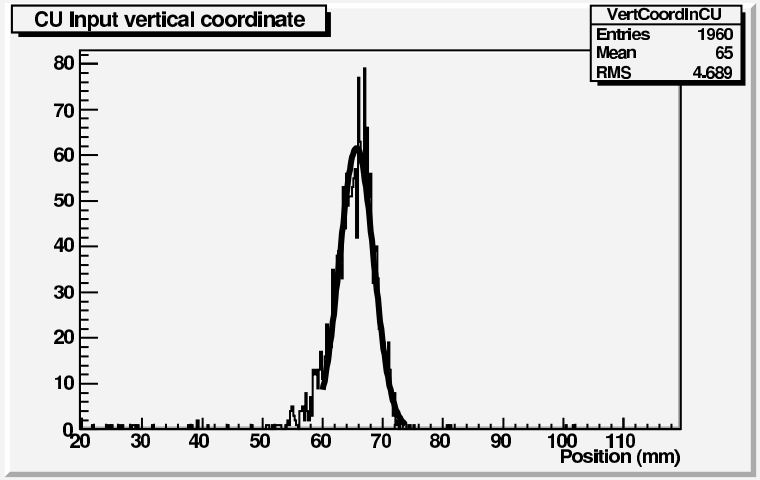

CU Input horizontal angle
HorAngleInCU
Entries 2092
Mean 0.008909
RMS 0.001744
Angle (rad)

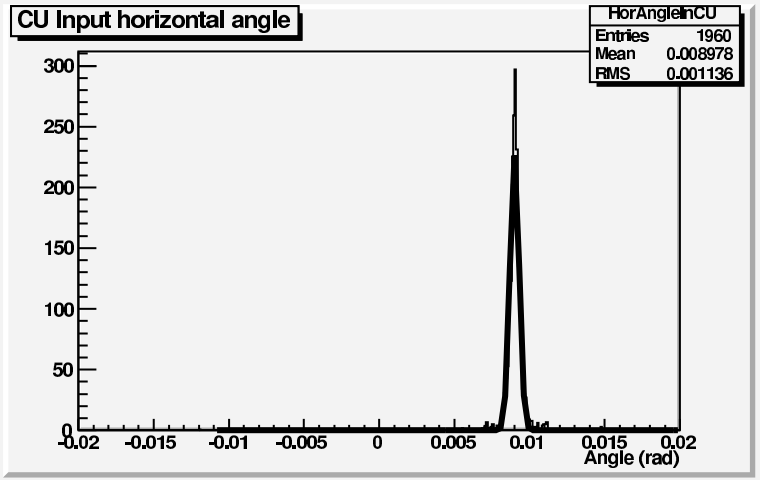

CU Input vertical angle
VertAngleInCU
Entries 2092
Mean 0.005811
RMS 0.00138
Angle (rad)

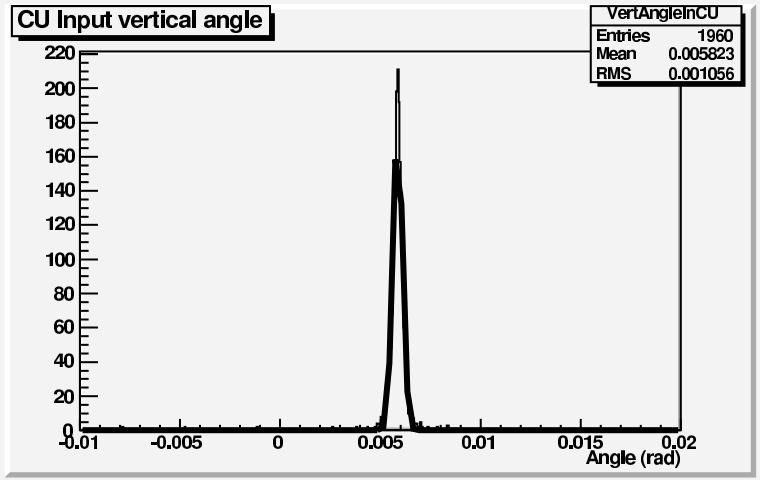

CU Input Beam Spot
SpotCoordInCU
Entries 2092
Mean x 560.1
Mean y 92.82
RMS x 3.99
RMS y 3.687
Vertical Position (mm)
Horizontal Position (mm)

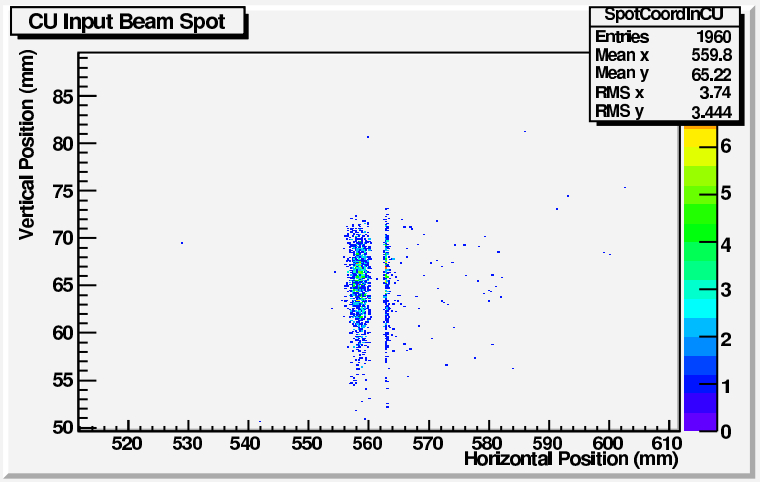

CU Input Beam Spot
SpotAngleInCU
Entries 2092
Mean x 0.00582
Mean y 0.008996
RMS x 0.001207
RMS y 0.0013
Vertical Angle (rad)
Horizontal Angle (rad)

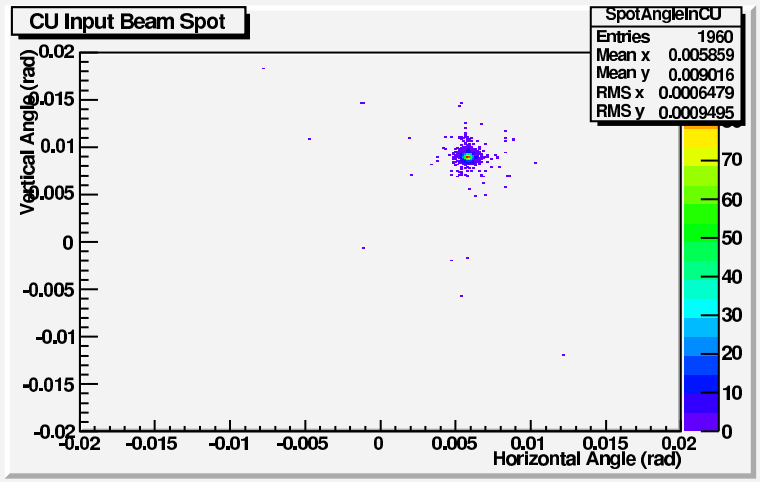

CU Input Horizontal coordinate
HorCoordInCU
Entries 1960
Mean 560.2
RMS 5.816
Position (mm)

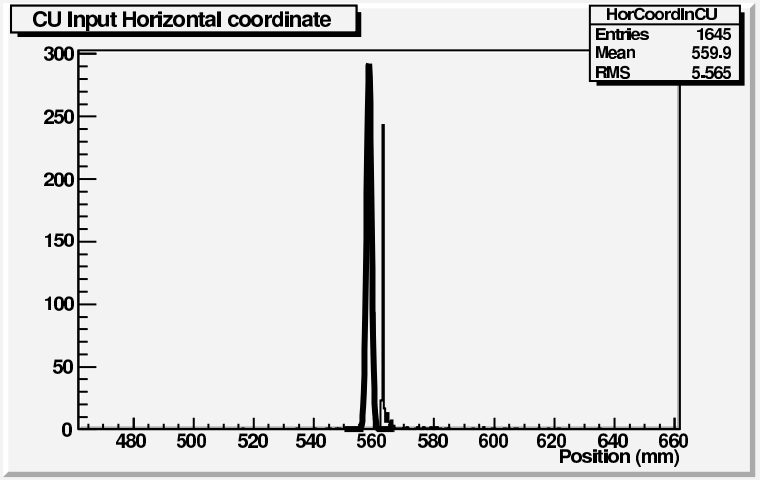

CU Input vertical coordinate
VertCoordInCU
Entries 1960
Mean 65
RMS 4.689
Position (mm)

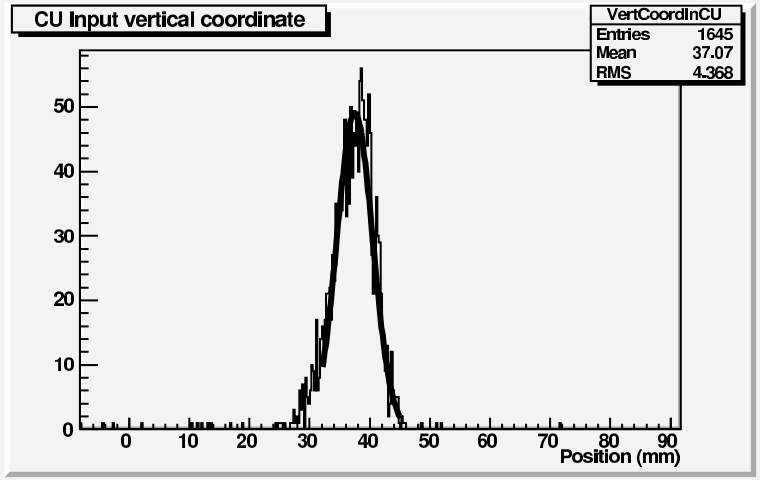

CU Input horizontal angle
HorAngleInCU
Entries 1960
Mean 0.008978
RMS 0.001136
Angle (rad)

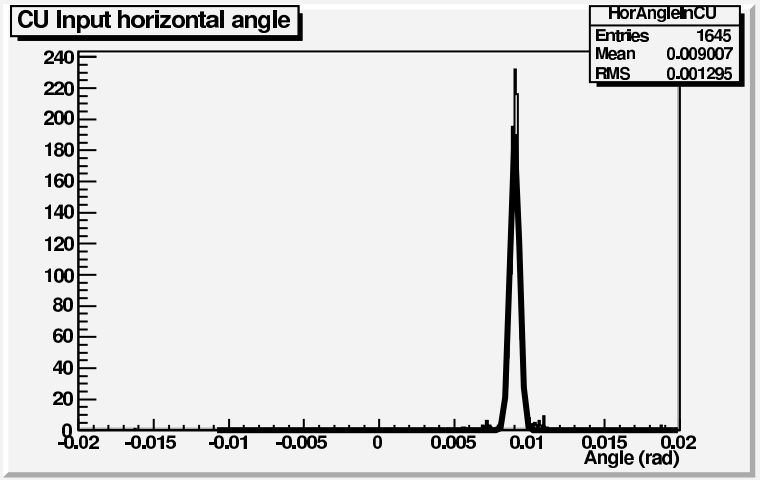

CU Input vertical angle
VertAngleInCU
Entries 1960
Mean 0.005823
RMS 0.001056
Angle (rad)

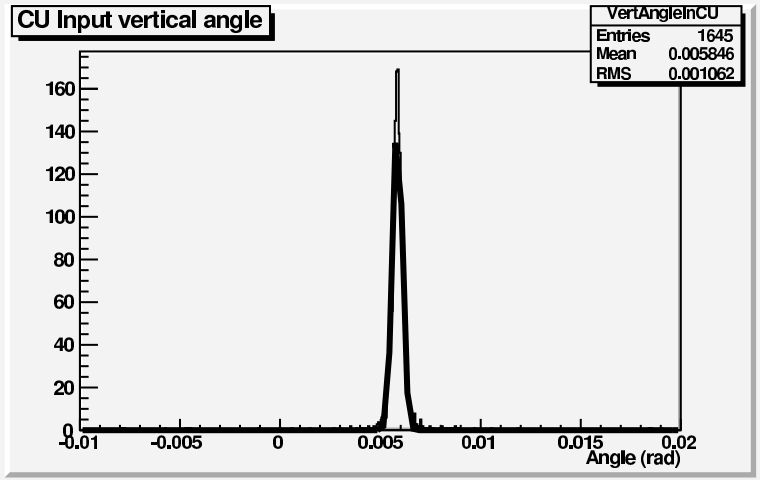

CU Input Beam Spot
SpotCoordInCU
Entries 1960
Mean x 559.8
Mean y 65.22
RMS x 3.74
RMS y 3.444
Vertical Position (mm)
Horizontal Position (mm)

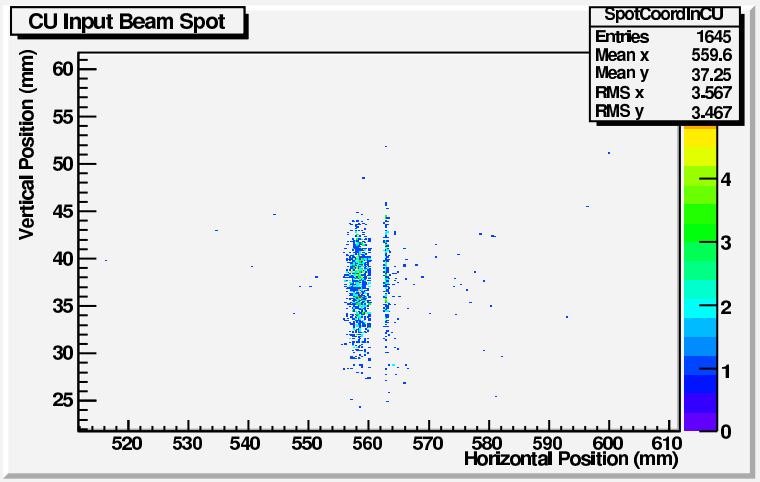

CU Input Beam Spot
SpotAngleInCU
Entries 1960
Mean x 0.005859
Mean y 0.009016
RMS x 0.0006479
RMS y 0.0009495
Vertical Angle (rad)
Horizontal Angle (rad)

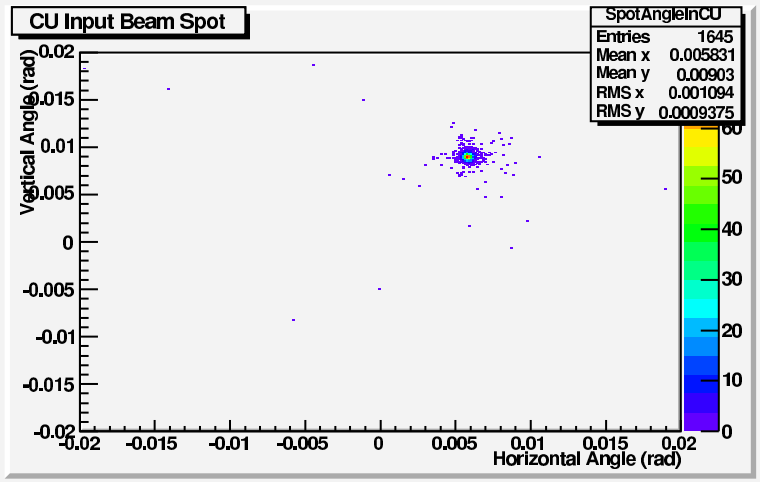

CU Input Horizontal coordinate
HorCoordInCU
Entries 1645
Mean 559.9
RMS 5.565
Position (mm)

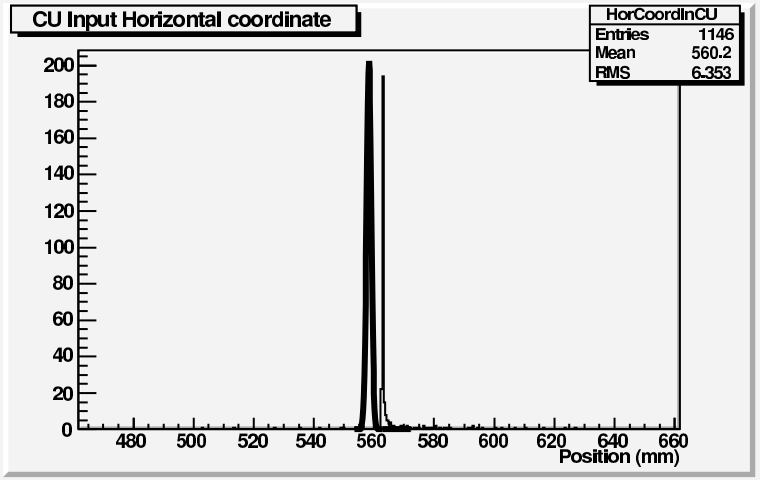

CU Input vertical coordinate
VertCoordInCU
Entries 1645
Mean 37.07
RMS 4.368
Position (mm)

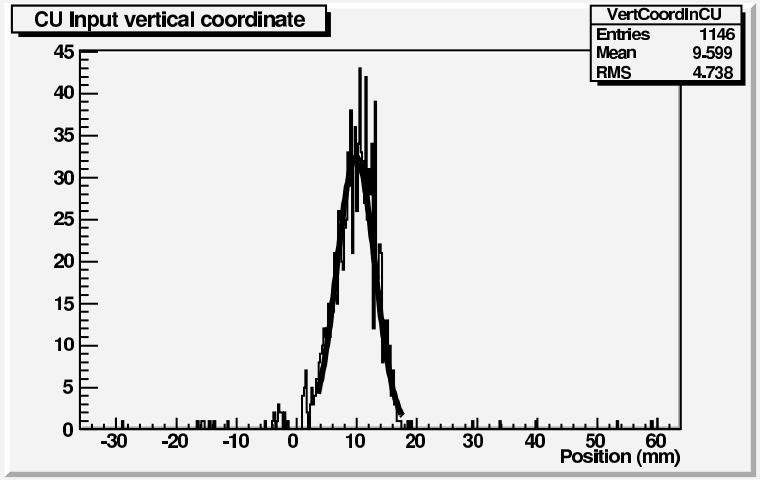

CU Input horizontal angle
HorAngleInCU
Entries 1645
Mean 0.009007
RMS 0.001295
Angle (rad)

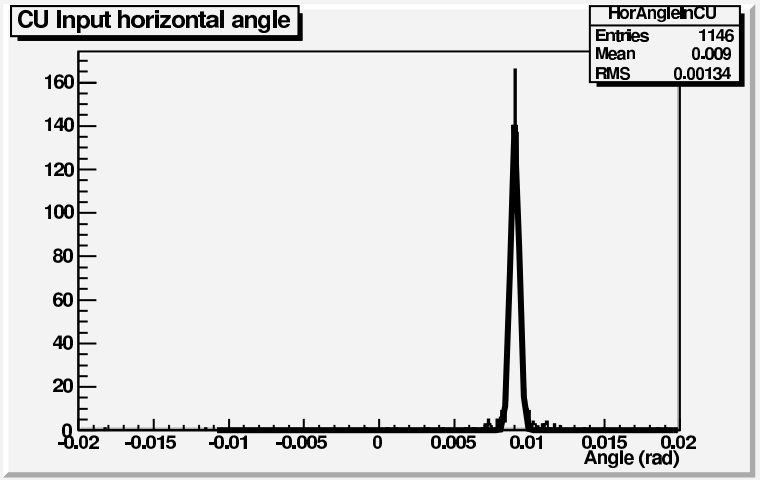

CU Input vertical angle
VertAngleInCU
Entries 1645
Mean 0.005846
RMS 0.001062
Angle (rad)

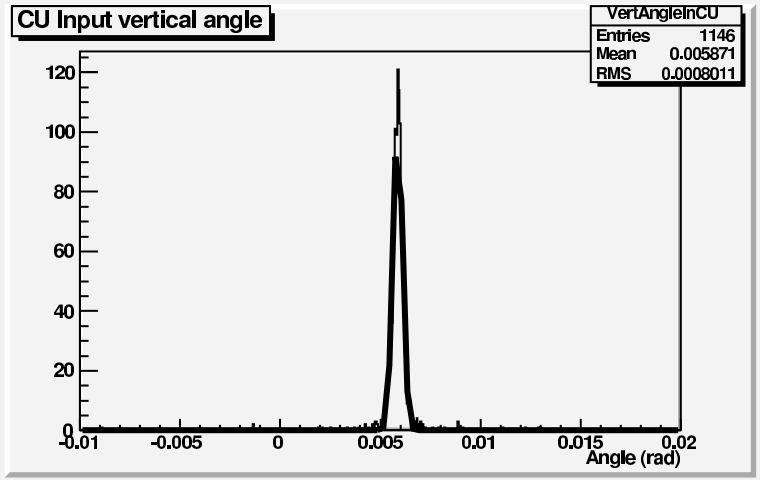

CU Input Beam Spot
SpotCoordInCU
Entries 1645
Mean x 559.6
Mean y 37.25
RMS x 3.567
RMS y 3.467
Vertical Position (mm)
Horizontal Position (mm)

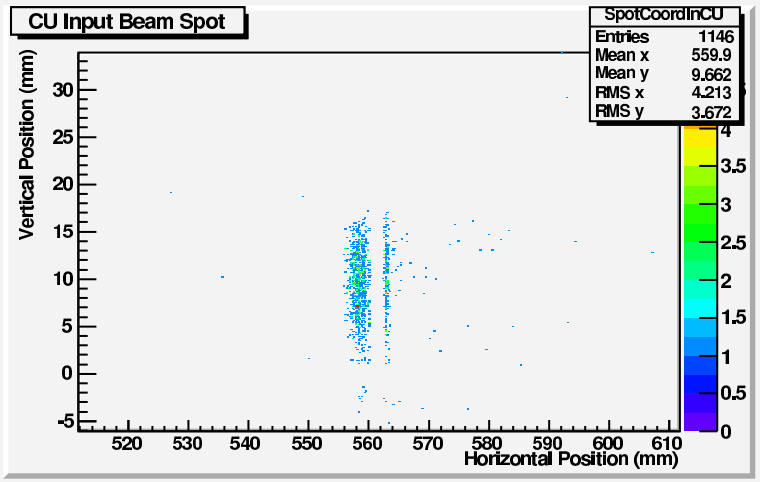

CU Input Beam Spot
SpotAngleInCU
Entries 1645
Mean x 0.005831
Mean y 0.00903
RMS x 0.001094
RMS y 0.0009375
Vertical Angle (rad)
Horizontal Angle (rad)

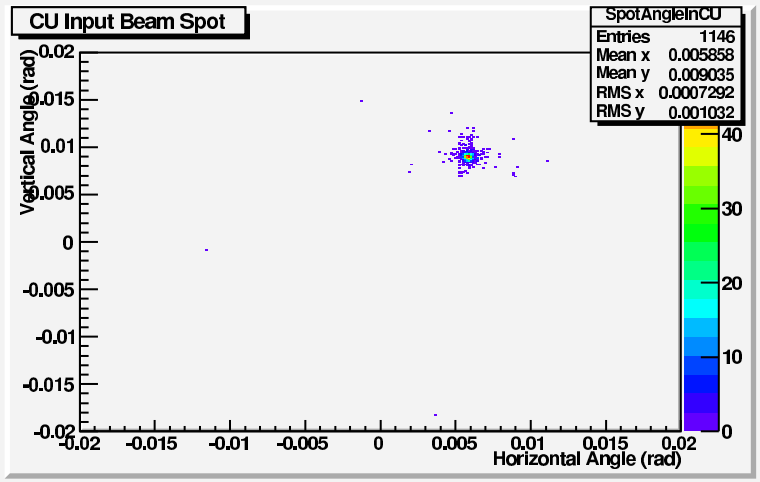

CU Input Horizontal coordinate
HorCoordInCU
Entries 1146
Mean 560.2
RMS 6.353
Position (mm)

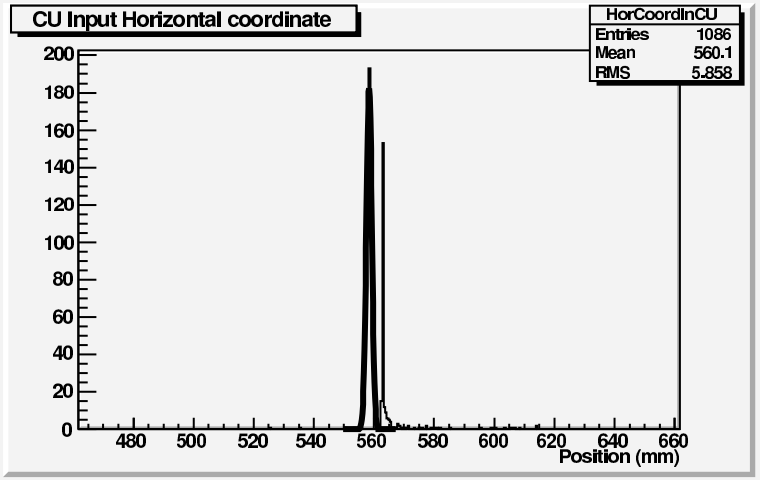

CU Input vertical coordinate
VertCoordInCU
Entries 1146
Mean 9.599
RMS 4.738
Position (mm)

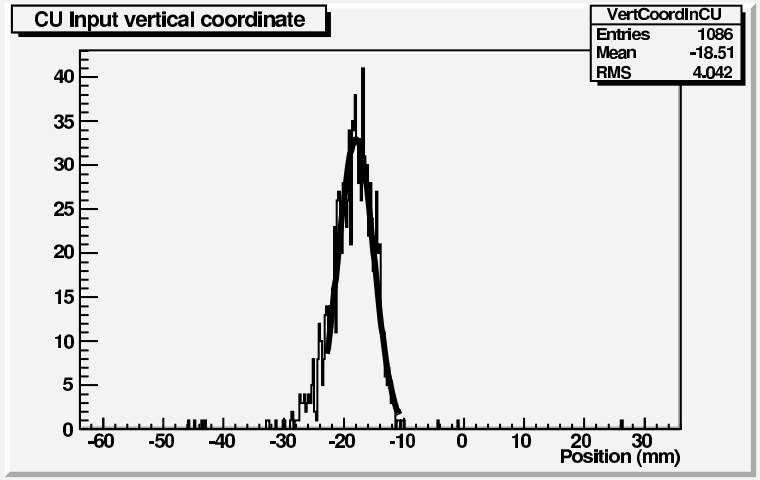

CU Input horizontal angle
HorAngleInCU
Entries 1146
Mean 0.009
RMS 0.00134
Angle (rad)

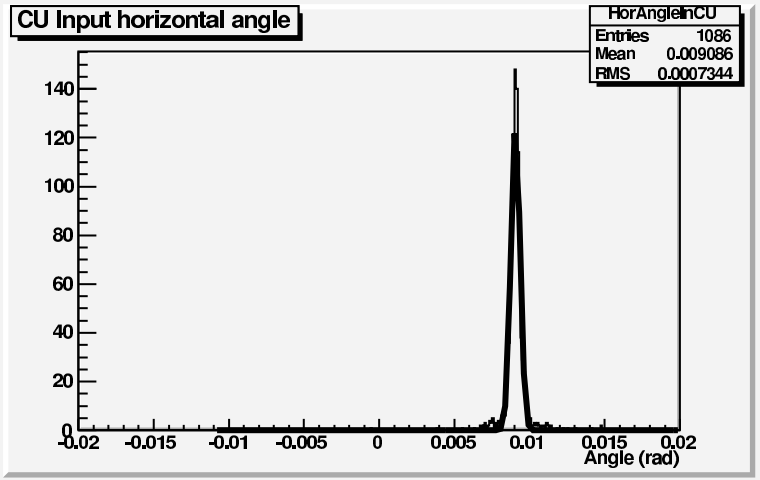

CU Input vertical angle
VertAngleInCU
Entries 1146
Mean 0.005871
RMS 0.0008011
Angle (rad)

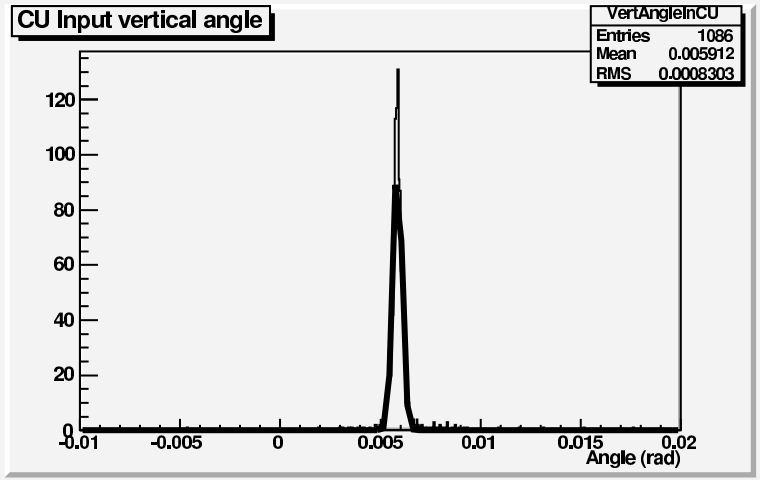

CU Input Beam Spot
SpotCoordInCU
Entries 1146
Mean x 559.9
Mean y 9.662
RMS x 4.213
RMS y 3.672
Vertical Position (mm)
Horizontal Position (mm)

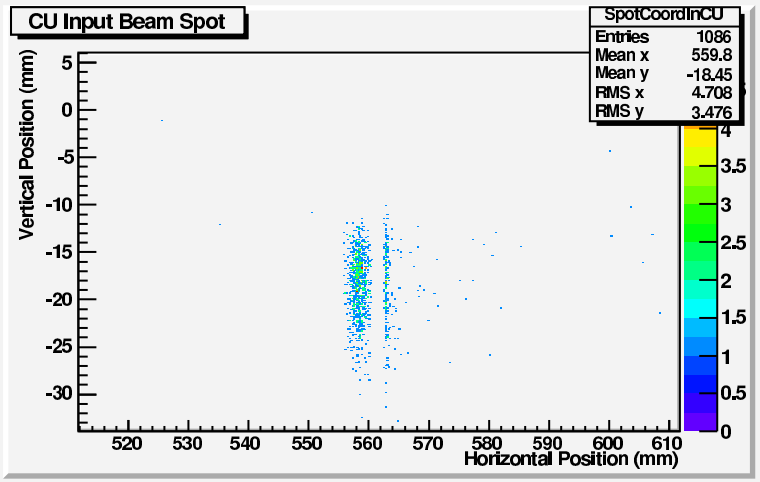

CU Input Beam Spot
SpotAngleInCU
Entries 1146
Mean x 0.005858
Mean y 0.009035
RMS x 0.0007292
RMS y 0.001032
Vertical Angle (rad)
Horizontal Angle (rad)

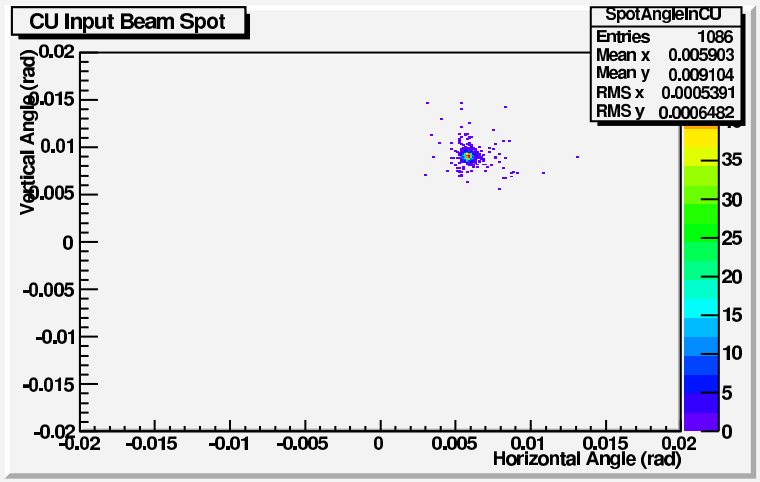

CU Input Horizontal coordinate
HorCoordInCU
Entries 1086
Mean 560.1
RMS 5.858
Position (mm)

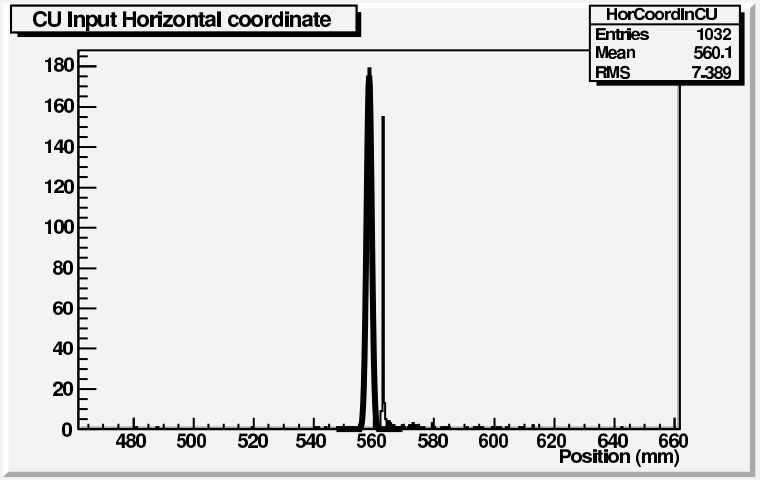

CU Input vertical coordinate
VertCoordInCU
Entries 1086
Mean -18.51
RMS 4.042
Position (mm)

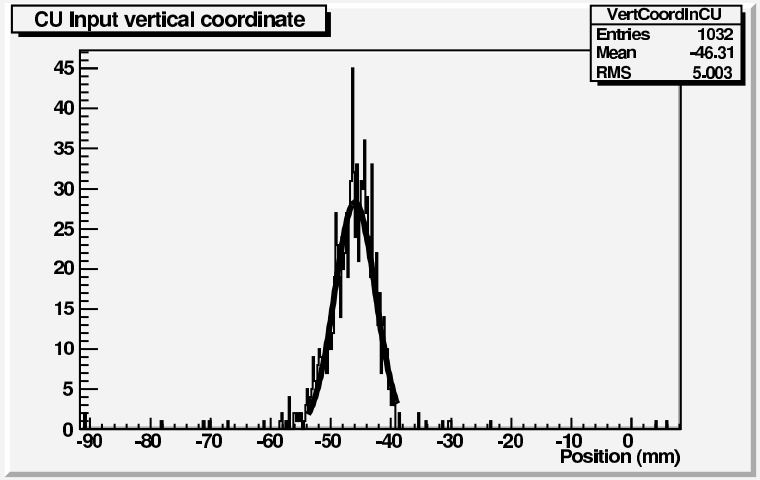

CU Input horizontal angle
HorAngleInCU
Entries 1086
Mean 0.009086
RMS 0.0007344
Angle (rad)

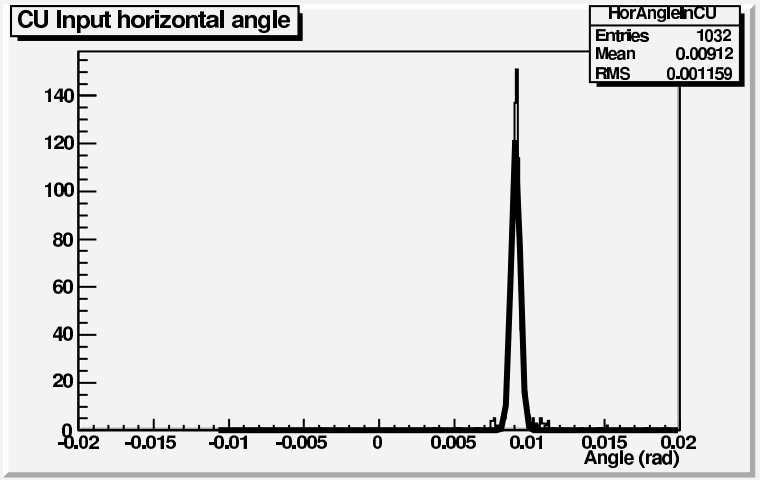

CU Input vertical angle
VertAngleInCU
Entries 1086
Mean 0.005912
RMS 0.0008303
Angle (rad)

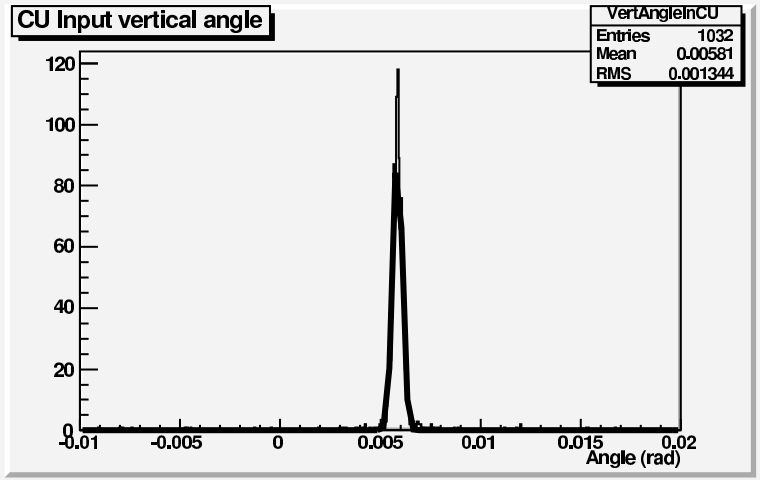

CU Input Beam Spot
SpotCoordInCU
Entries 1086
Mean x 559.8
Mean y -18.45
RMS x 4.708
RMS y 3.476
Vertical Position (mm)
Horizontal Position (mm)

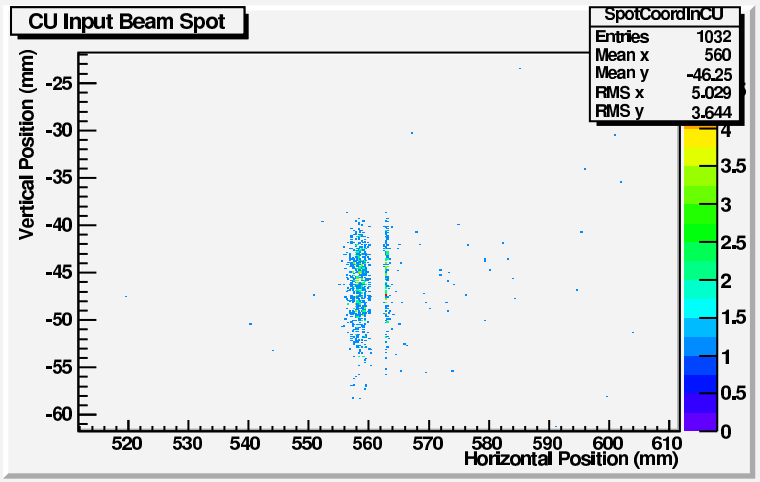

CU Input Beam Spot
SpotAngleInCU
Entries 1086
Mean x 0.005903
Mean y 0.009104
RMS x 0.0005391
RMS y 0.0006482
Vertical Angle (rad)
Horizontal Angle (rad)

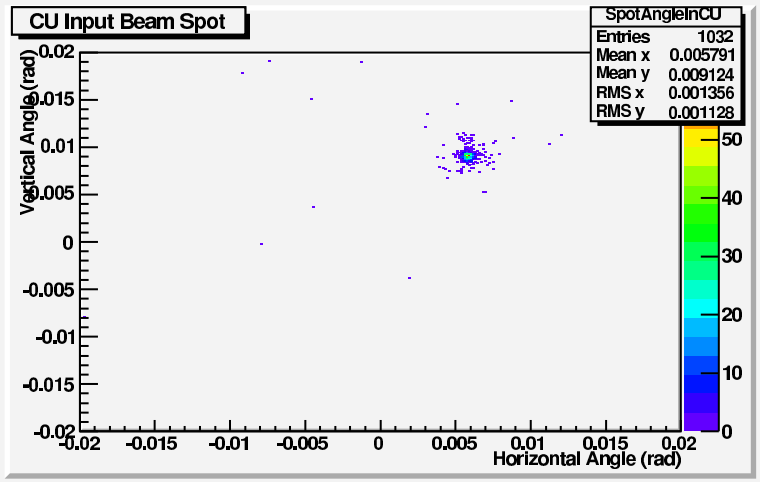

CU Input Horizontal coordinate
HorCoordInCU
Entries 1032
Mean 560.1
RMS 7.389
Position (mm)

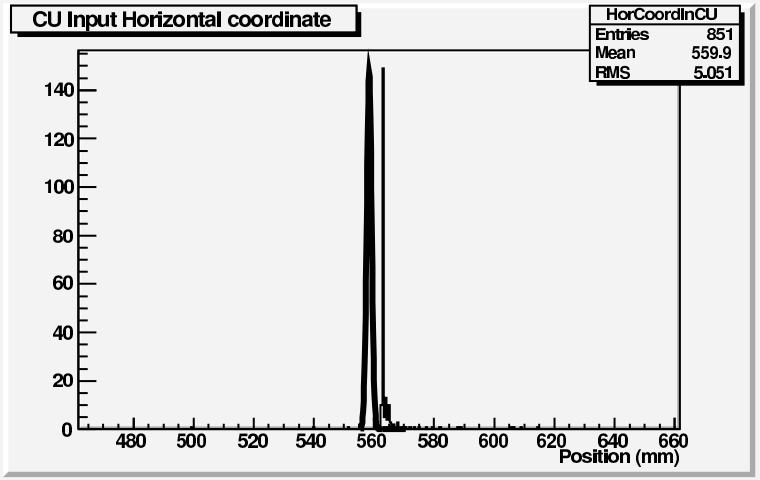

CU Input vertical coordinate
VertCoordInCU
Entries 1032
Mean -46.31
RMS 5.003
Position (mm)

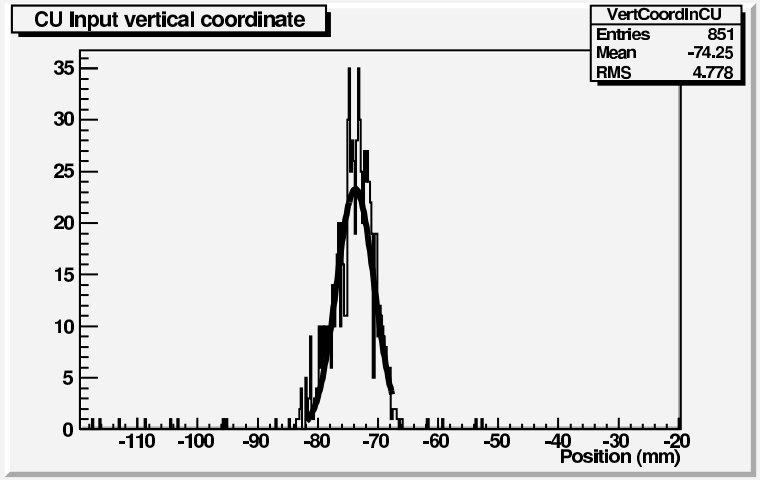

CU Input horizontal angle
HorAngleInCU
Entries 1032
Mean 0.00912
RMS 0.001159
Angle (rad)

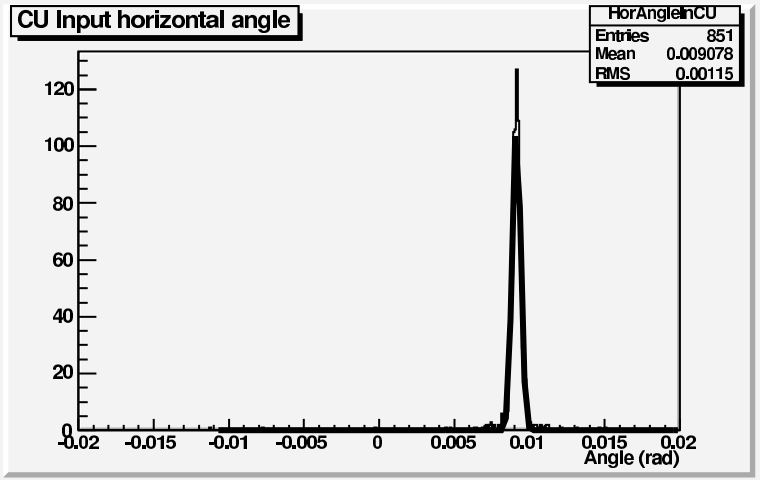

CU Input vertical angle
VertAngleInCU
Entries 1032
Mean 0.00581
RMS 0.001344
Angle (rad)

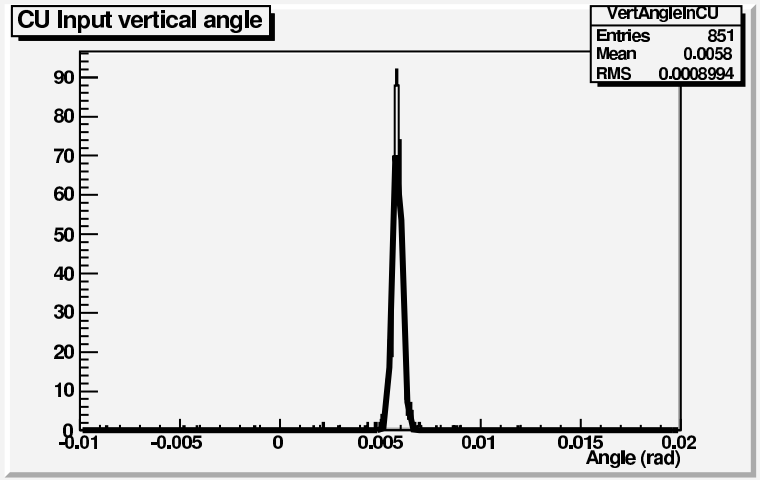

CU Input Beam Spot
SpotCoordInCU
Entries 1032
Mean x 560
Mean y -46.25
RMS x 5.029
RMS y 3.644
Vertical Position (mm)
Horizontal Position (mm)

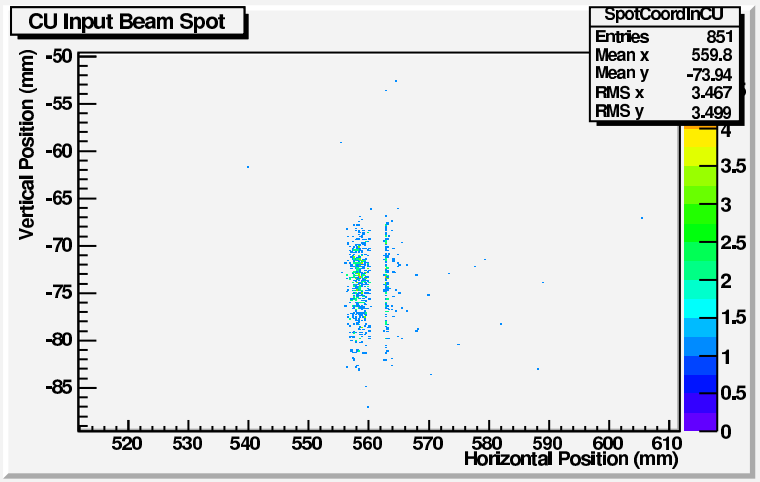

CU Input Beam Spot
SpotAngleInCU
Entries 1032
Mean x 0.005791
Mean y 0.009124
RMS x 0.001356
RMS y 0.001128
Vertical Angle (rad)
Horizontal Angle (rad)

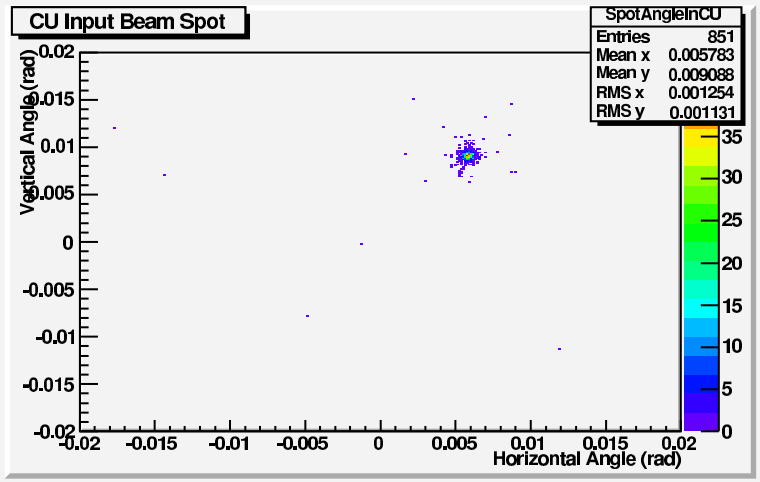

CU Input Horizontal coordinate
HorCoordInCU
Entries 851
Mean 559.9
RMS 5.051
Position (mm)

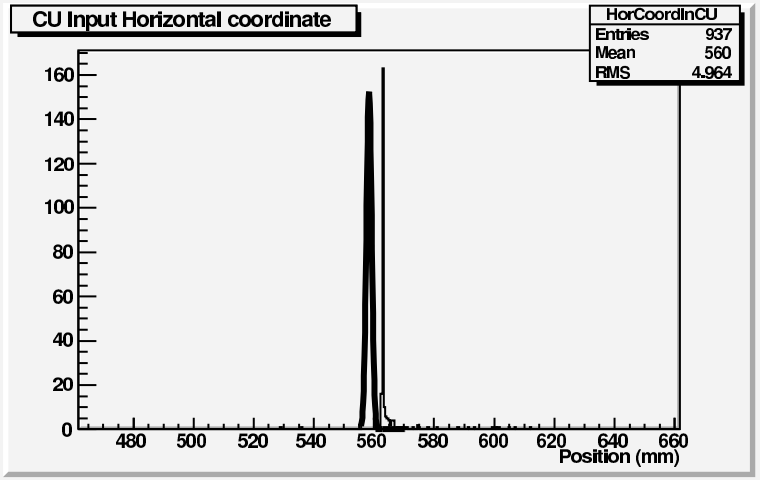

CU Input vertical coordinate
VertCoordInCU
Entries 851
Mean -74.25
RMS 4.778
Position (mm)

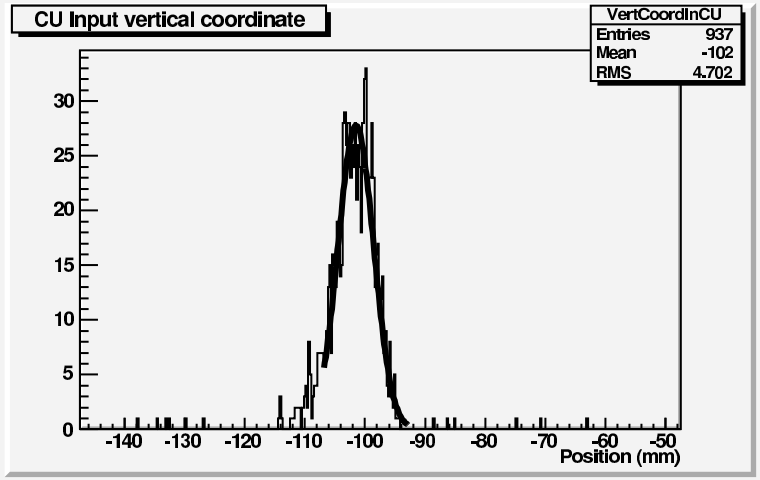

CU Input horizontal angle
HorAngleInCU
Entries 851
Mean 0.009078
RMS 0.00115
Angle (rad)

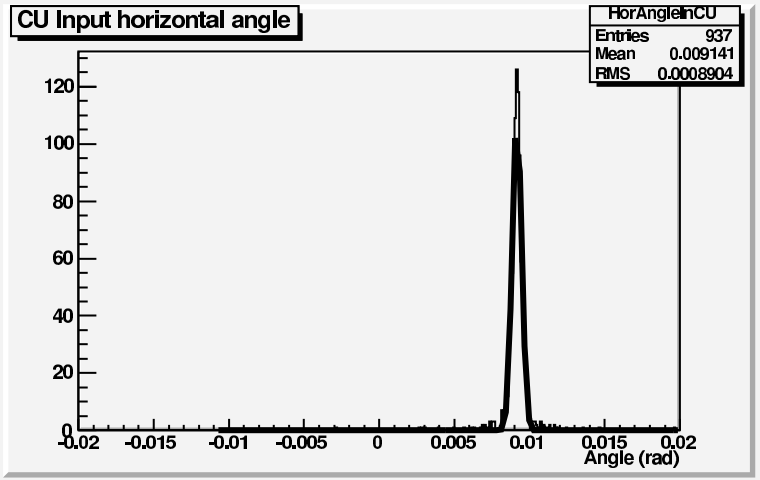

CU Input vertical angle
VertAngleInCU
Entries 851
Mean 0.0058
RMS 0.0008994
Angle (rad)

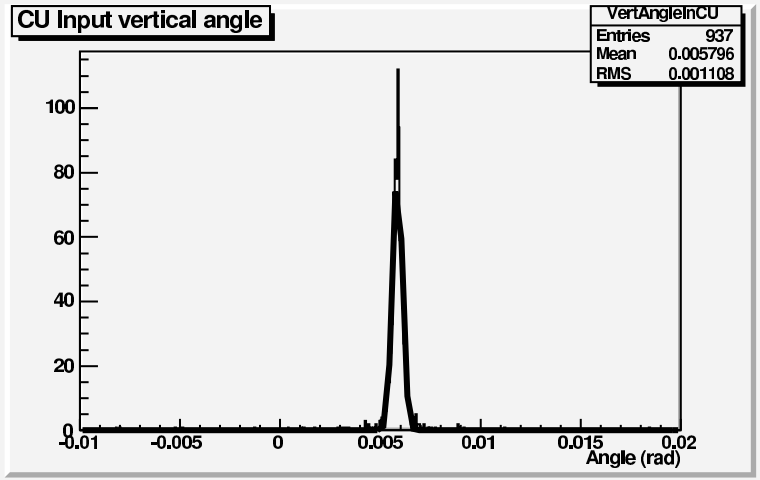

CU Input Beam Spot
SpotCoordInCU
Entries 851
Mean x 559.8
Mean y -73.94
RMS x 3.467
RMS y 3.499
Vertical Position (mm)
Horizontal Position (mm)

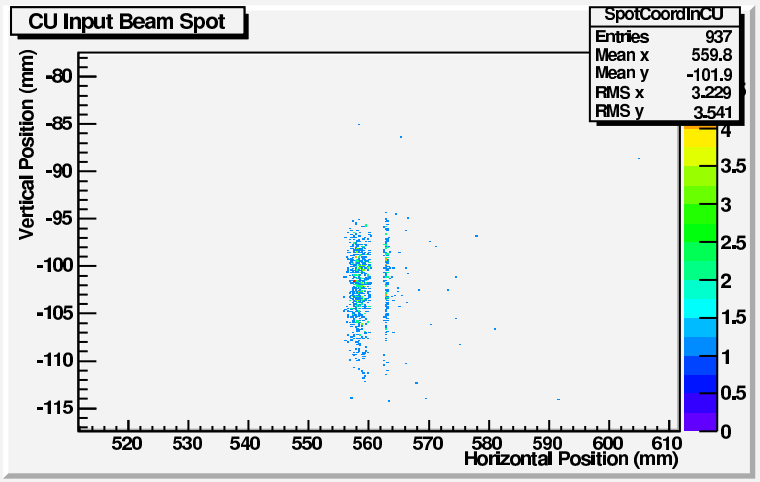

CU Input Beam Spot
SpotAngleInCU
Entries 851
Mean x 0.005783
Mean y 0.009088
RMS x 0.001254
RMS y 0.001131
Vertical Angle (rad)
Horizontal Angle (rad)

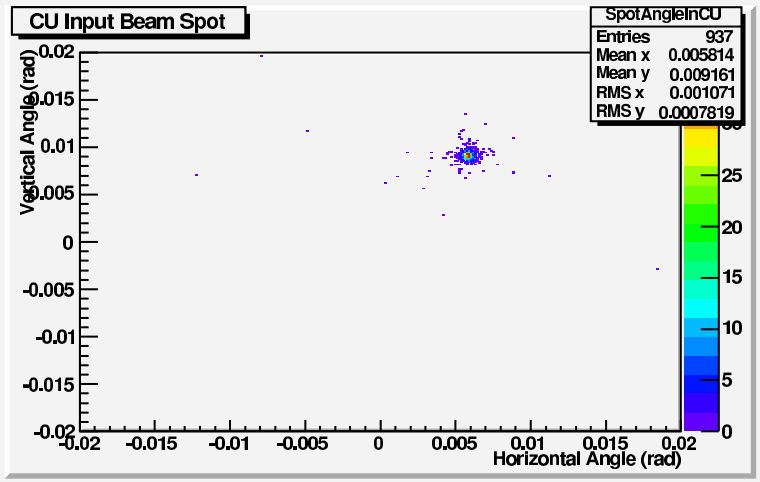

CU Input Horizontal coordinate
HorCoordInCU
Entries 937
Mean 560
RMS 4.964
Position (mm)

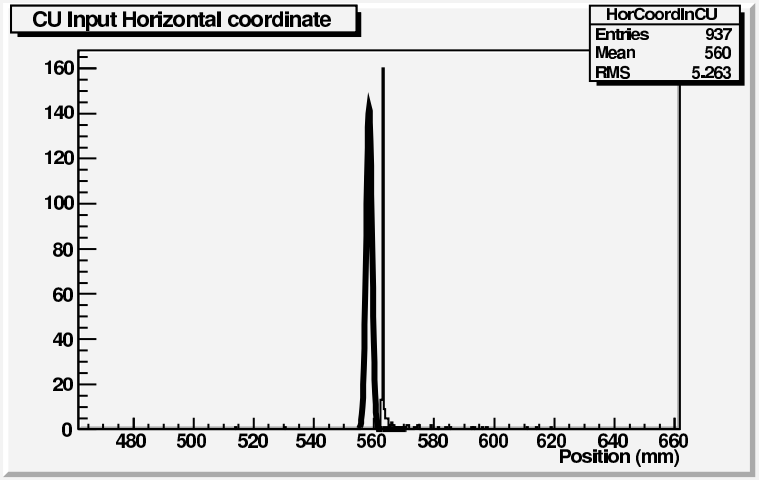

CU Input vertical coordinate
VertCoordInCU
Entries 937
Mean -102
RMS 4.702
Position (mm)

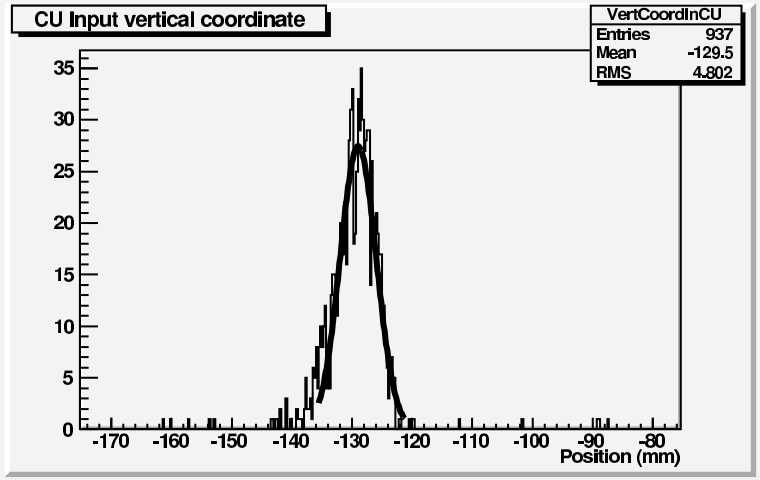

CU Input horizontal angle
HorAngleInCU
Entries 937
Mean 0.009141
RMS 0.0008904
Angle (rad)

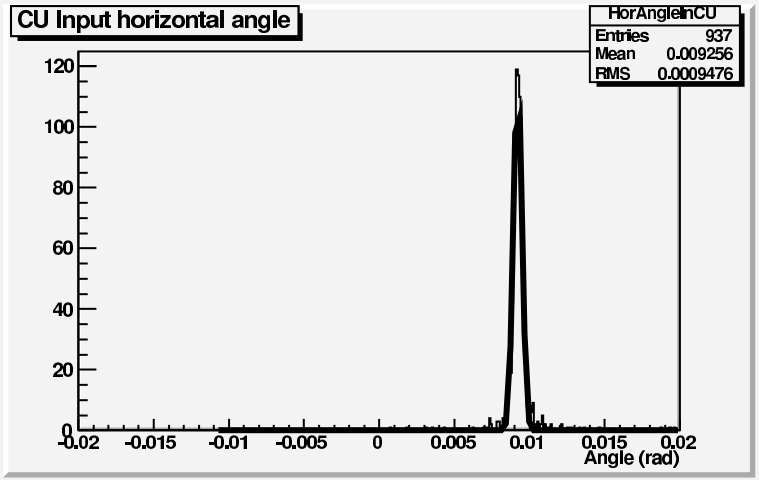

CU Input vertical angle
VertAngleInCU
Entries 937
Mean 0.005796
RMS 0.001108
Angle (rad)

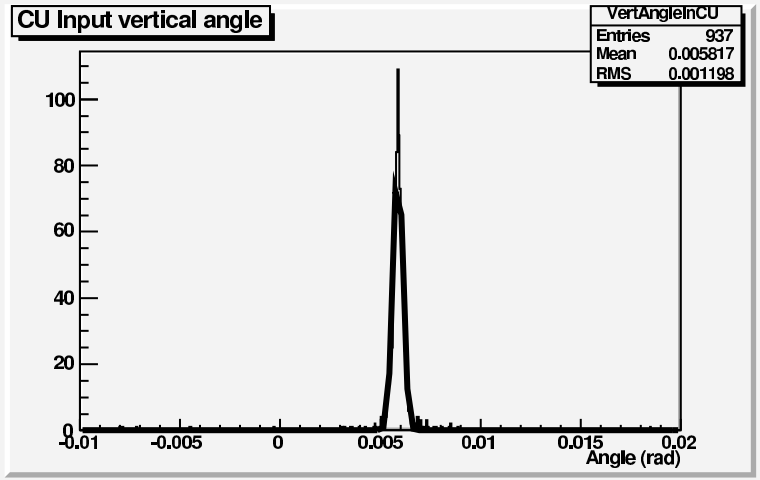

CU Input Beam Spot
SpotCoordInCU
Entries 937
Mean x 559.8
Mean y -101.9
RMS x 3.229
RMS y 3.541
Vertical Position (mm)
Horizontal Position (mm)

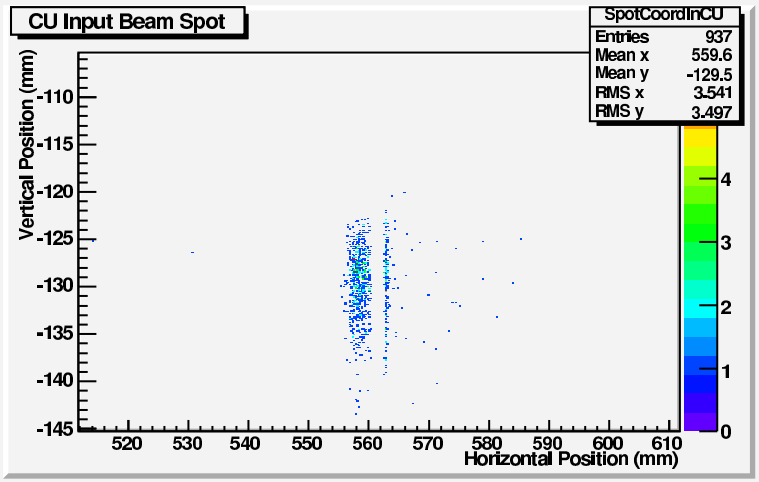

CU Input Beam Spot
SpotAngleInCU
Entries 937
Mean x 0.005814
Mean y 0.009161
RMS x 0.001071
RMS y 0.0007819
Vertical Angle (rad)
Horizontal Angle (rad)

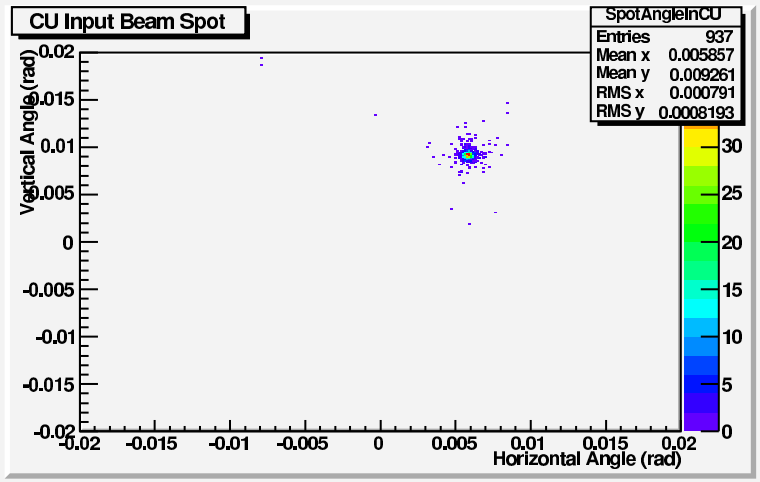

CU Input Horizontal coordinate
HorCoordInCU
Entries 937
Mean 560
RMS 5.263
Position (mm)

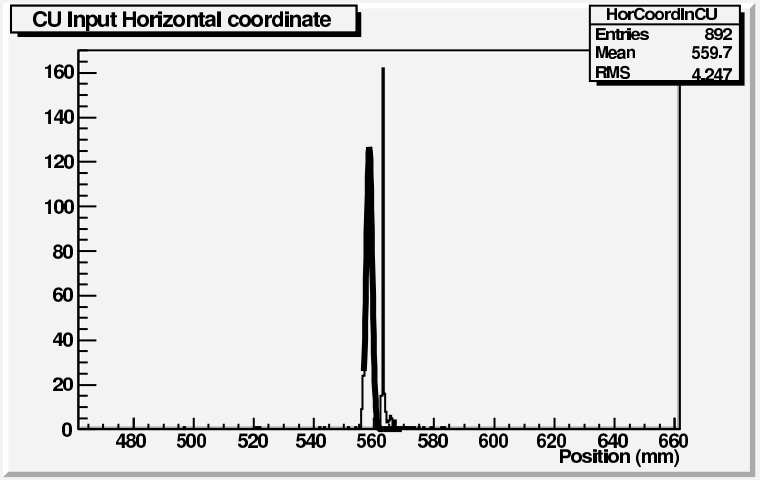

CU Input vertical coordinate
VertCoordInCU
Entries 937
Mean -129.5
RMS 4.802
Position (mm)

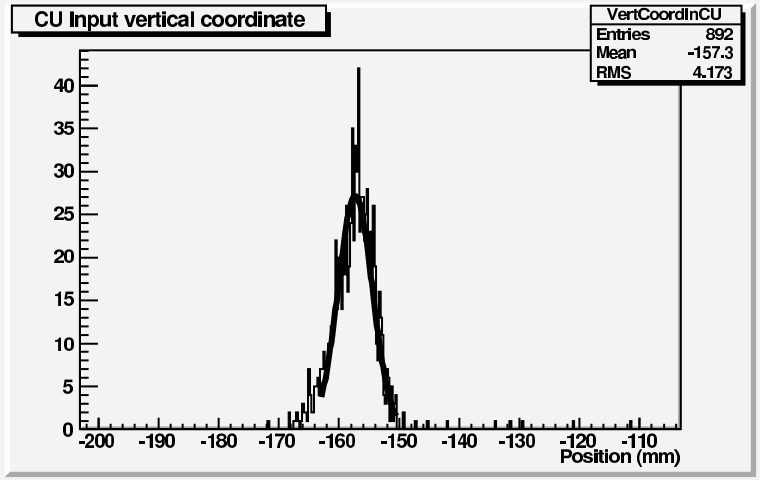

CU Input horizontal angle
HorAngleInCU
Entries 937
Mean 0.009256
RMS 0.0009476
Angle (rad)

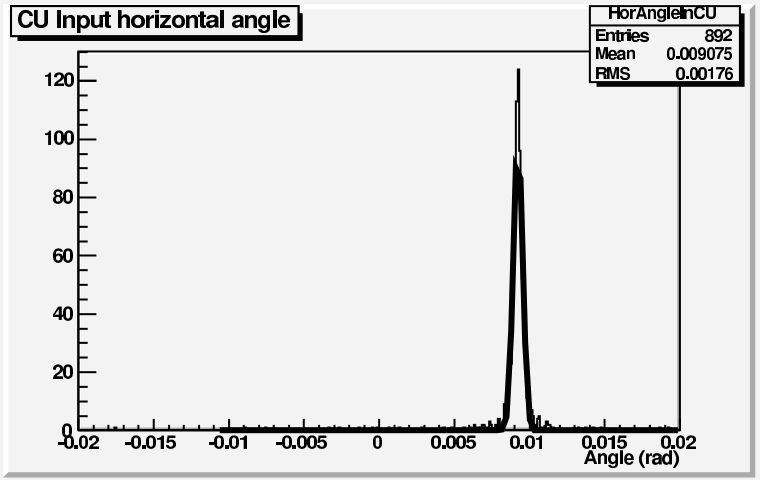

CU Input vertical angle
VertAngleInCU
Entries 937
Mean 0.005817
RMS 0.001198
Angle (rad)

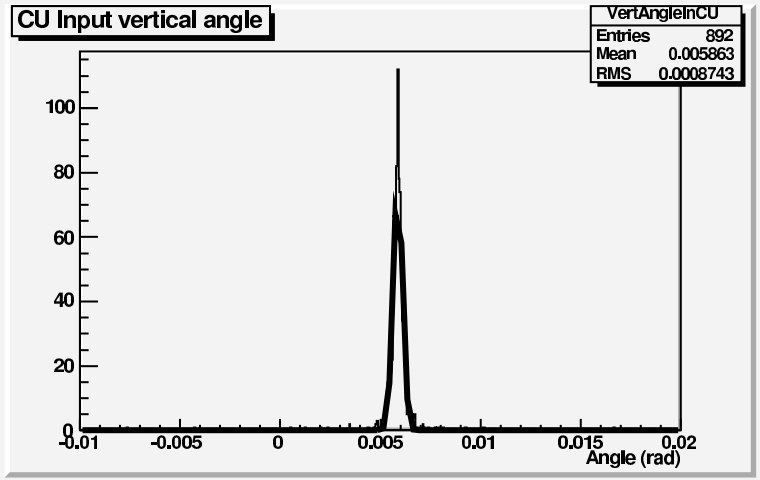

CU Input Beam Spot
SpotCoordInCU
Entries 937
Mean x 559.6
Mean y -129.5
RMS x 3.541
RMS y 3.497
Vertical Position (mm)
Horizontal Position (mm)

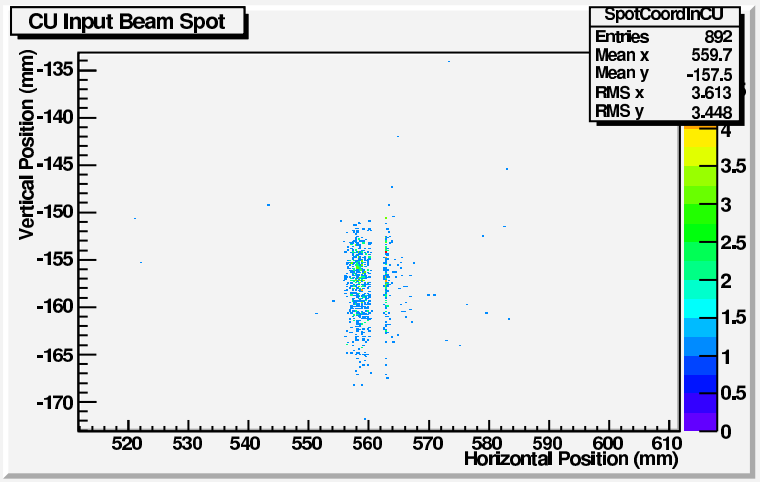

CU Input Beam Spot
SpotAngleInCU
Entries 937
Mean x 0.005857
Mean y 0.009261
RMS x 0.000791
RMS y 0.0008193
Vertical Angle (rad)
Horizontal Angle (rad)

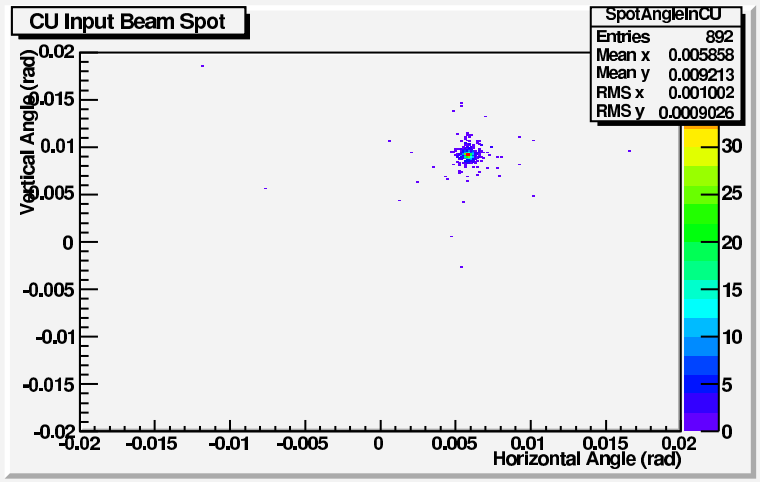

CU Input Horizontal coordinate
HorCoordInCU
Entries 892
Mean 559.7
RMS 4.247
Position (mm)

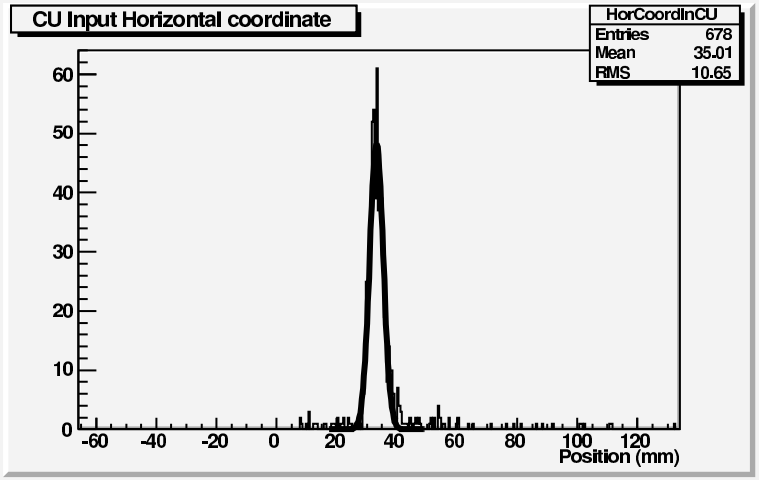

CU Input vertical coordinate
VertCoordInCU
Entries 892
Mean -157.3
RMS 4.173
Position (mm)

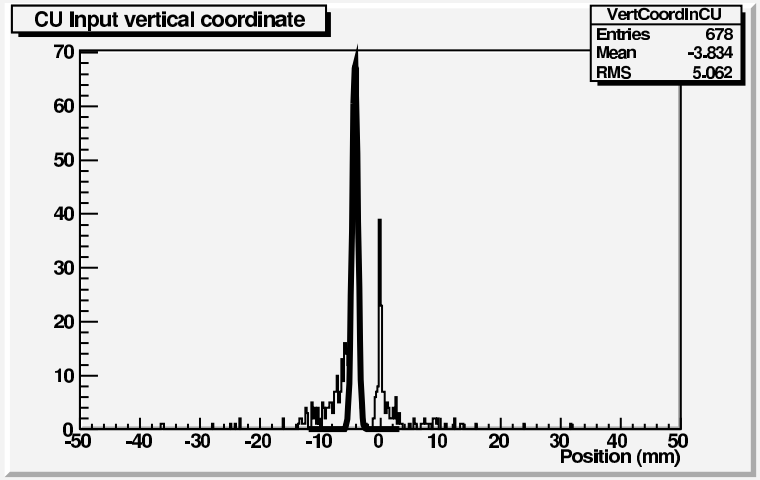

CU Input horizontal angle
HorAngleInCU
Entries 892
Mean 0.009075
RMS 0.00176
Angle (rad)

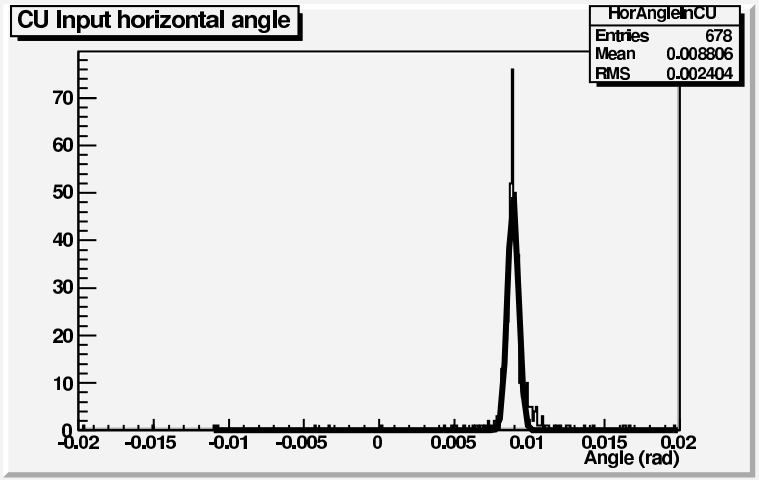

CU Input vertical angle
VertAngleInCU
Entries 892
Mean 0.005863
RMS 0.0008743
Angle (rad)

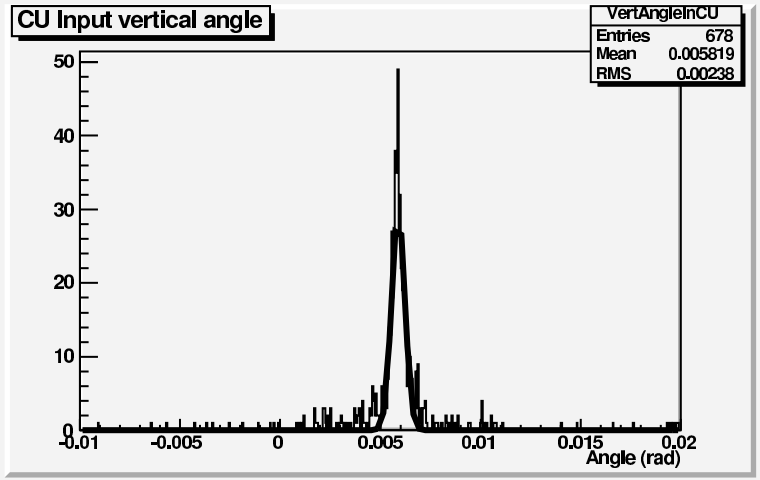

CU Input Beam Spot
SpotCoordInCU
Entries 892
Mean x 559.7
Mean y -157.5
RMS x 3.613
RMS y 3.448
Vertical Position (mm)
Horizontal Position (mm)

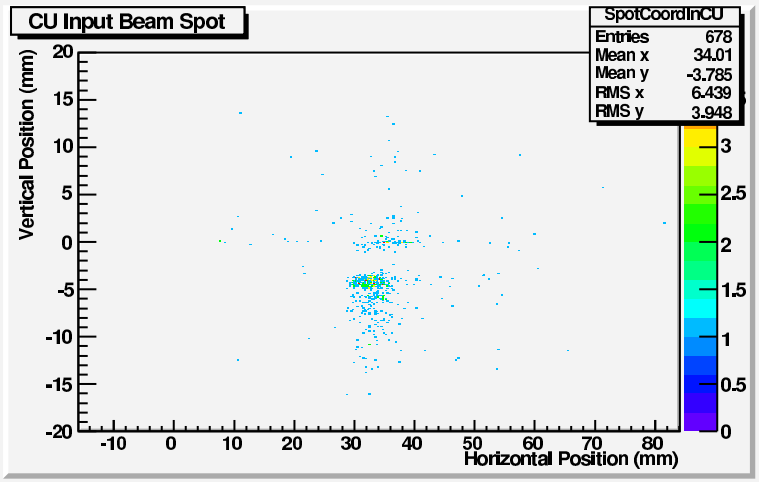

CU Input Beam Spot
SpotAngleInCU
Entries 892
Mean x 0.005858
Mean y 0.009213
RMS x 0.001002
RMS y 0.0009026
Vertical Angle (rad)
Horizontal Angle (rad)

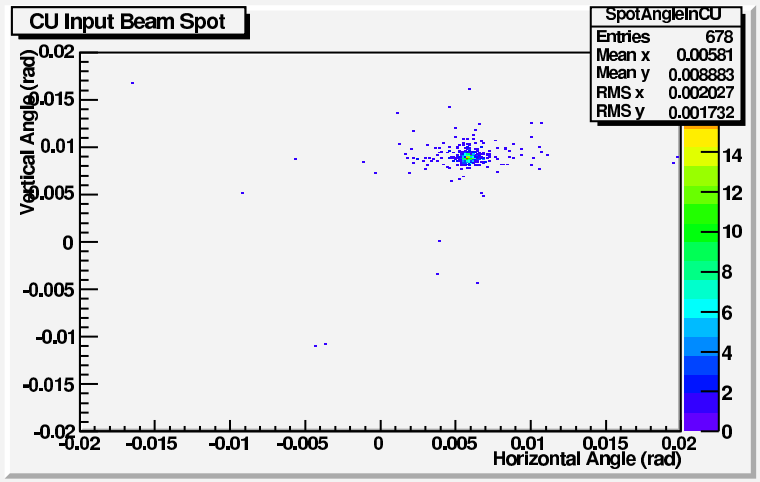

CU Input Horizontal coordinate
HorCoordInCU
Entries 678
Mean 35.01
RMS 10.65
Position (mm)

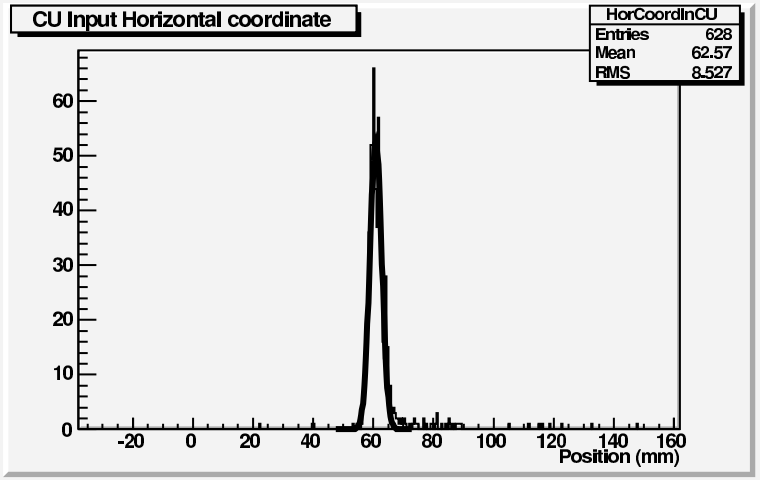

CU Input vertical coordinate
VertCoordInCU
Entries 678
Mean -3.834
RMS 5.062
Position (mm)

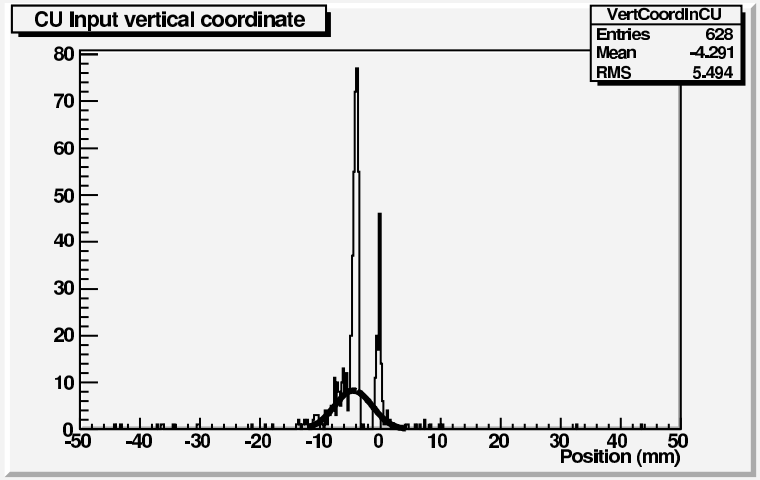

CU Input horizontal angle
HorAngleInCU
Entries 678
Mean 0.008806
RMS 0.002404
Angle (rad)

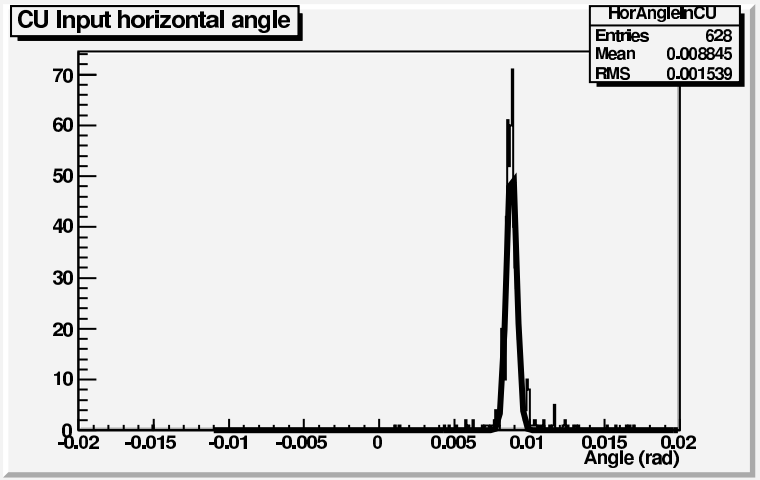

CU Input vertical angle
VertAngleInCU
Entries 678
Mean 0.005819
RMS 0.00238
Angle (rad)

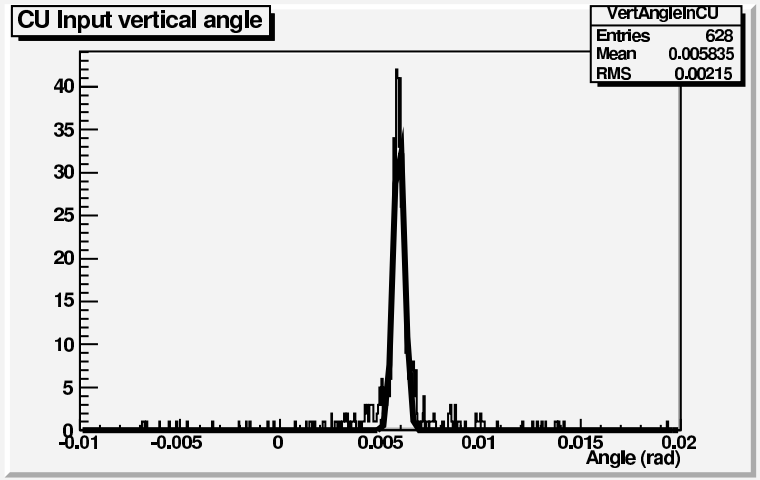

CU Input Beam Spot
SpotCoordInCU
Entries 678
Mean x 34.01
Mean y -3.785
RMS x 6.439
RMS y 3.948
Vertical Position (mm)
Horizontal Position (mm)

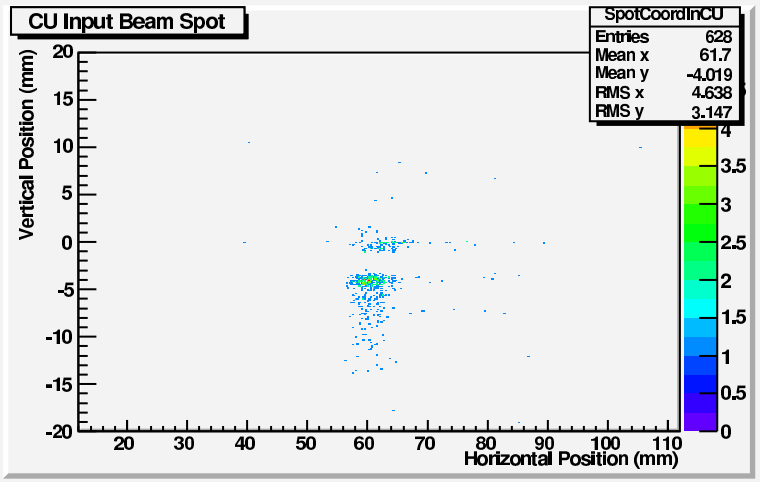

CU Input Beam Spot
SpotAngleInCU
Entries 678
Mean x 0.00581
Mean y 0.008883
RMS x 0.002027
RMS y 0.001732
Vertical Angle (rad)
Horizontal Angle (rad)

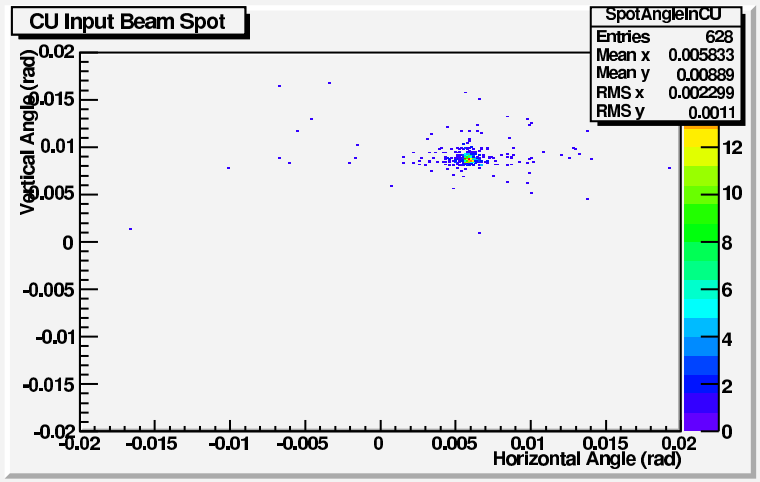

CU Input Horizontal coordinate
HorCoordInCU
Entries 628
Mean 62.57
RMS 8.527
Position (mm)

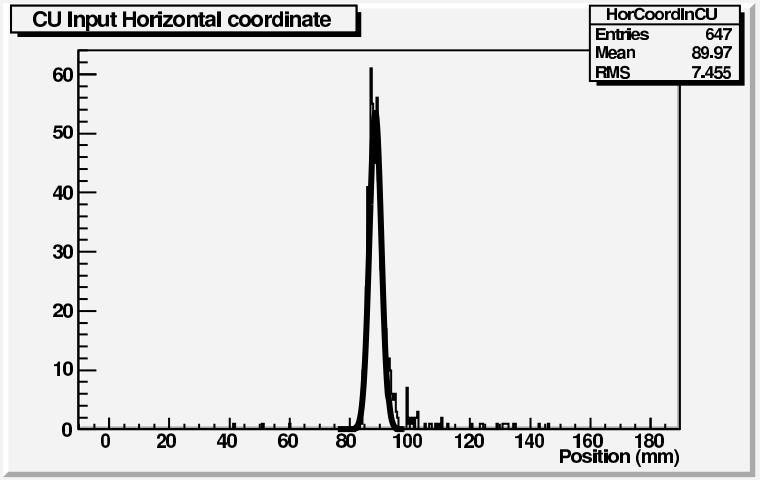

CU Input vertical coordinate
VertCoordInCU
Entries 628
Mean -4.291
RMS 5.494
Position (mm)

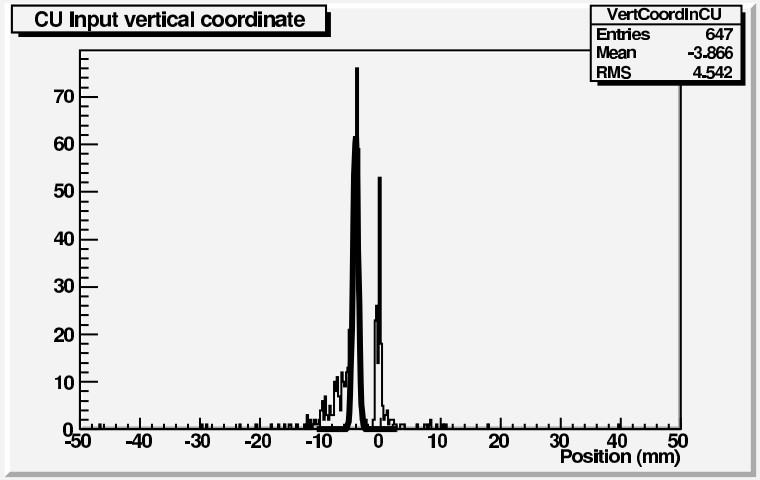

CU Input horizontal angle
HorAngleInCU
Entries 628
Mean 0.008845
RMS 0.001539
Angle (rad)

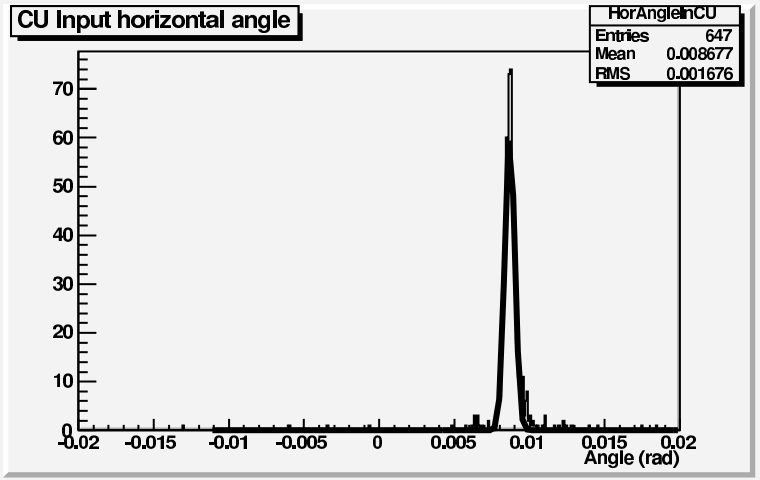

CU Input vertical angle
VertAngleInCU
Entries 628
Mean 0.005835
RMS 0.00215
Angle (rad)

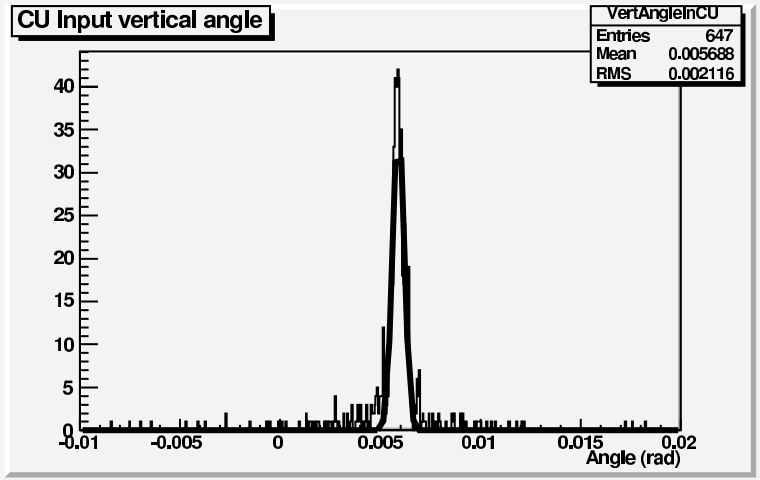

CU Input Beam Spot
SpotCoordInCU
Entries 628
Mean x 61.7
Mean y -4.019
RMS x 4.638
RMS y 3.147
Vertical Position (mm)
Horizontal Position (mm)

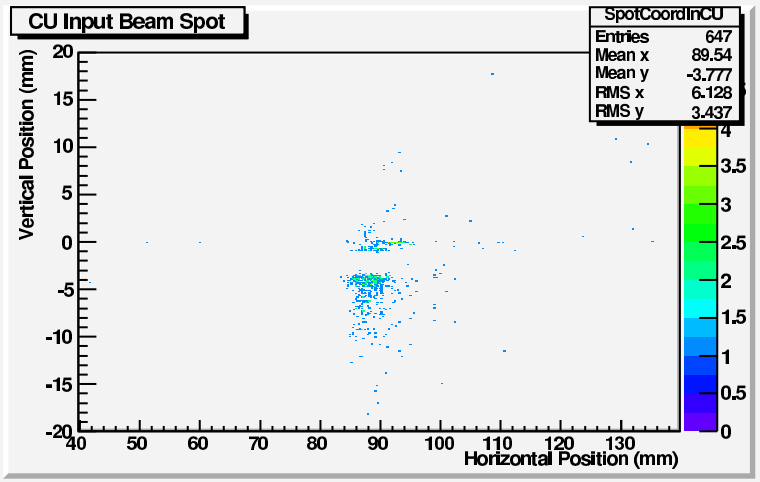

CU Input Beam Spot
SpotAngleInCU
Entries 628
Mean x 0.005833
Mean y 0.00889
RMS x 0.002299
RMS y 0.0011
Vertical Angle (rad)
Horizontal Angle (rad)

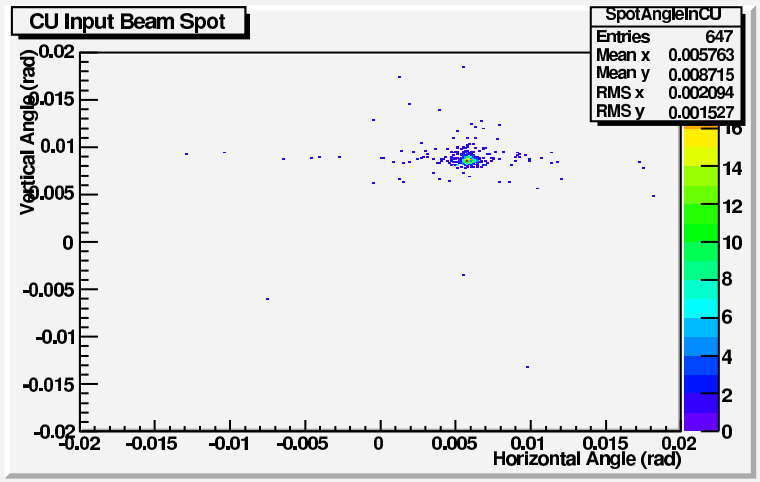

CU Input Horizontal coordinate
HorCoordInCU
Entries 647
Mean 89.97
RMS 7.455
Position (mm)

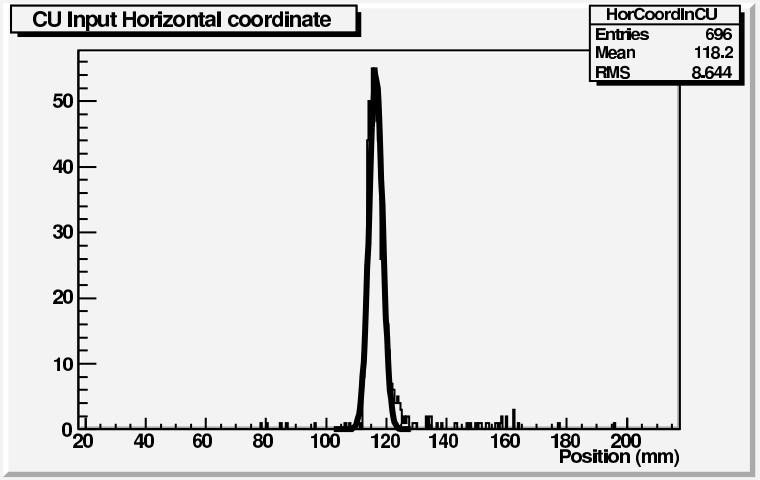

CU Input vertical coordinate
VertCoordInCU
Entries 647
Mean -3.866
RMS 4.542
Position (mm)

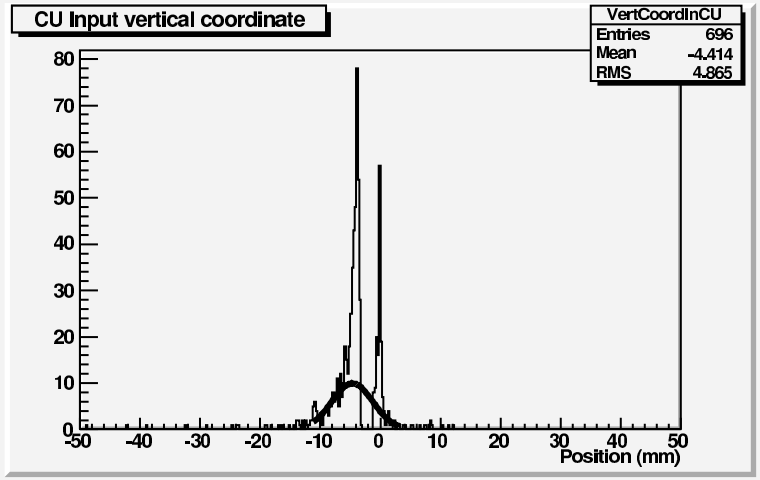

CU Input horizontal angle
HorAngleInCU
Entries 647
Mean 0.008677
RMS 0.001676
Angle (rad)

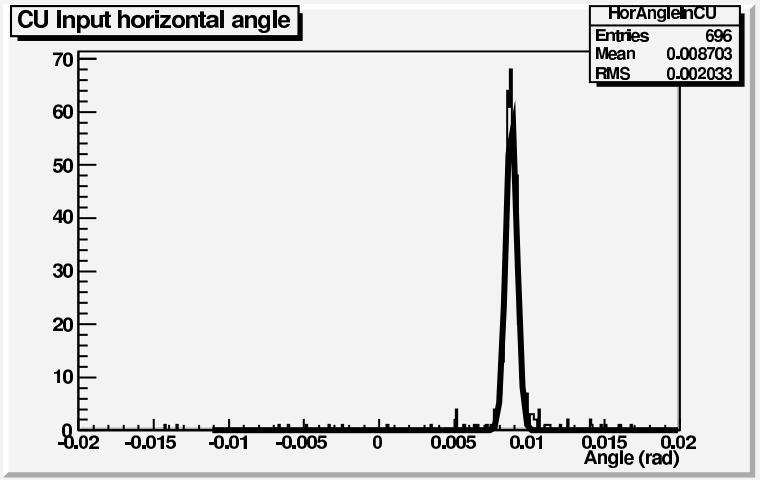

CU Input vertical angle
VertAngleInCU
Entries 647
Mean 0.005688
RMS 0.002116
Angle (rad)

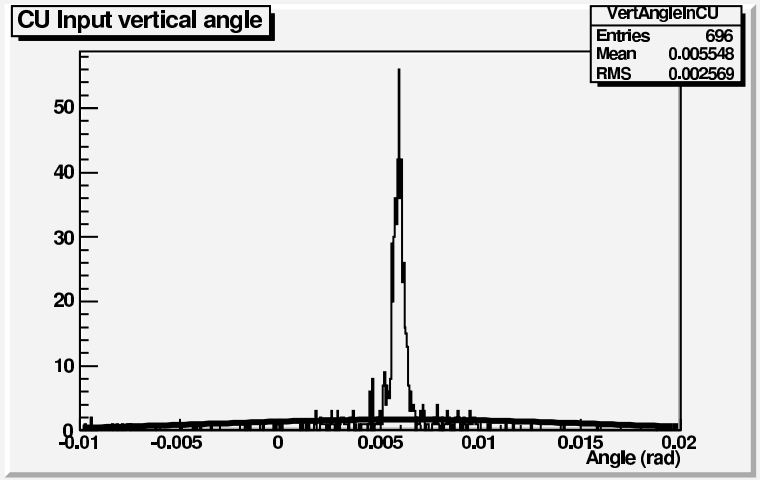

CU Input Beam Spot
SpotCoordInCU
Entries 647
Mean x 89.54
Mean y -3.777
RMS x 6.128
RMS y 3.437
Vertical Position (mm)
Horizontal Position (mm)

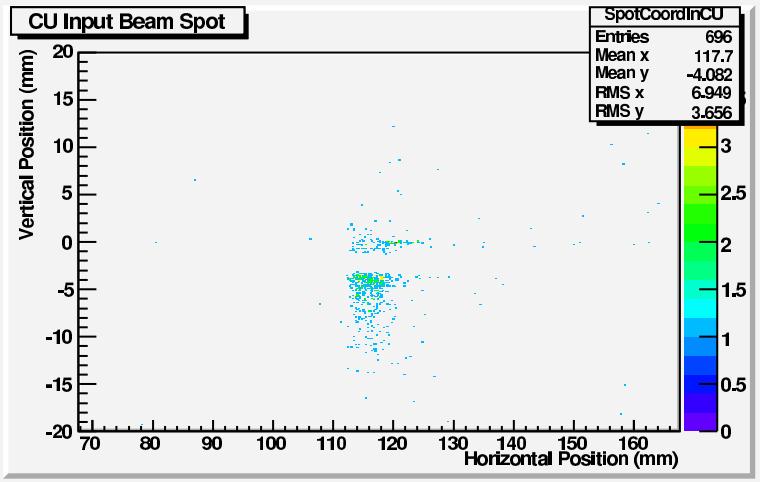

CU Input Beam Spot
SpotAngleInCU
Entries 647
Mean x 0.005763
Mean y 0.008715
RMS x 0.002094
RMS y 0.001527
Vertical Angle (rad)
Horizontal Angle (rad)

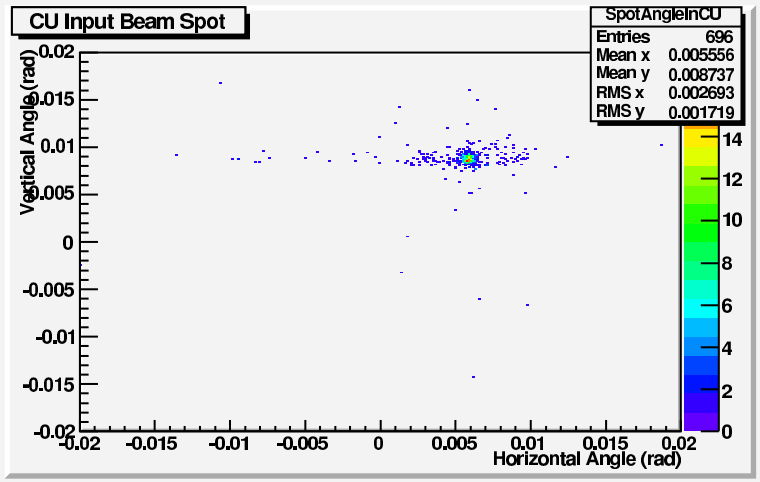

CU Input Horizontal coordinate
HorCoordInCU
Entries 696
Mean 118.2
RMS 8.644
Position (mm)

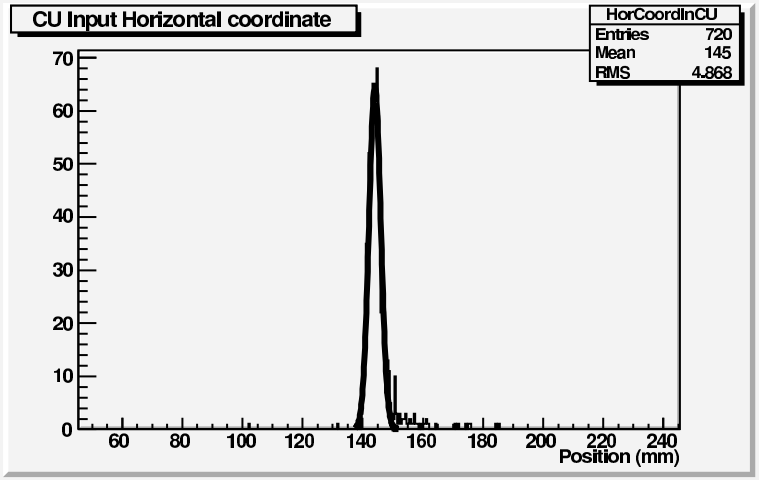

CU Input vertical coordinate
VertCoordInCU
Entries 696
Mean -4.414
RMS 4.865
Position (mm)

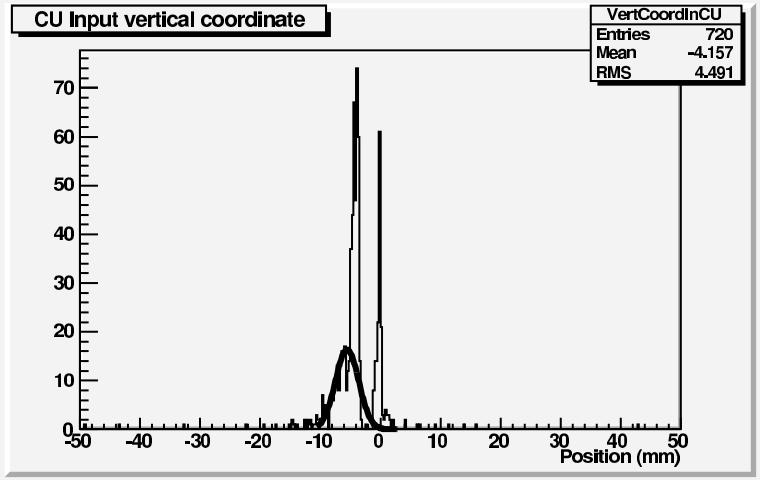

CU Input horizontal angle
HorAngleInCU
Entries 696
Mean 0.008703
RMS 0.002033
Angle (rad)

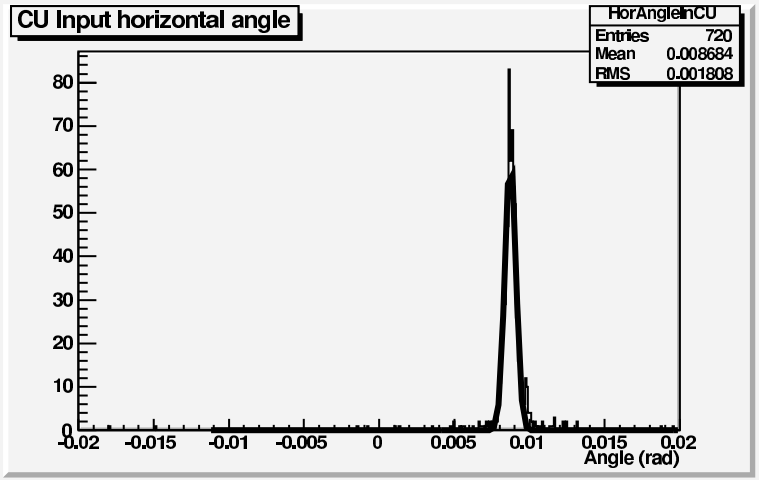

CU Input vertical angle
VertAngleInCU
Entries 696
Mean 0.005548
RMS 0.002569
Angle (rad)

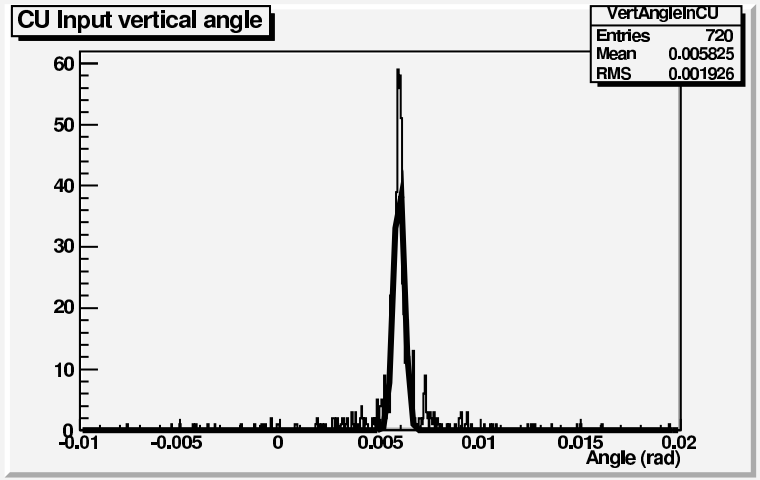

CU Input Beam Spot
SpotCoordInCU
Entries 696
Mean x 117.7
Mean y -4.082
RMS x 6.949
RMS y 3.656
Vertical Position (mm)
Horizontal Position (mm)

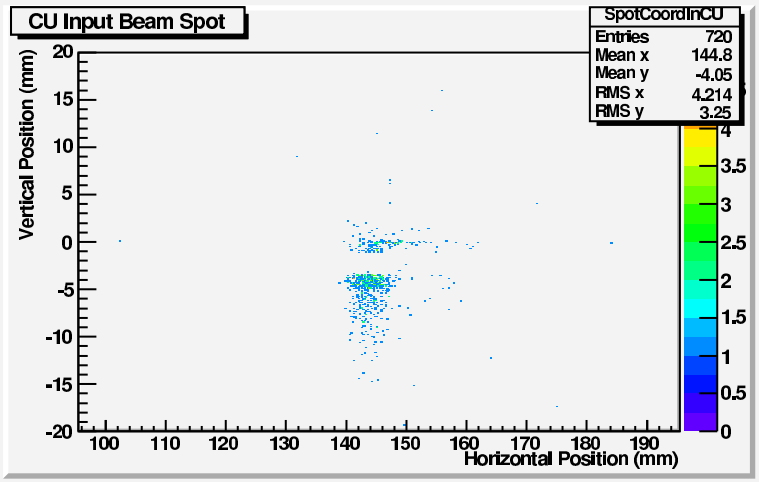

CU Input Beam Spot
SpotAngleInCU
Entries 696
Mean x 0.005556
Mean y 0.008737
RMS x 0.002693
RMS y 0.001719
Vertical Angle (rad)
Horizontal Angle (rad)

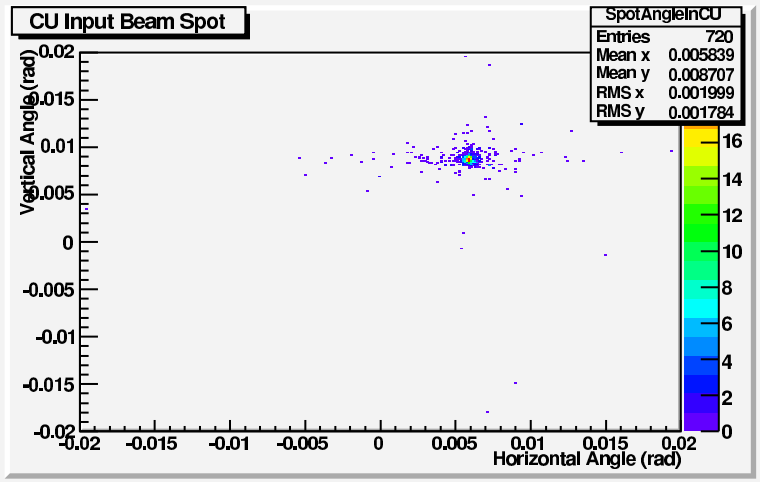

CU Input Horizontal coordinate
HorCoordInCU
Entries 720
Mean 145
RMS 4.868
Position (mm)

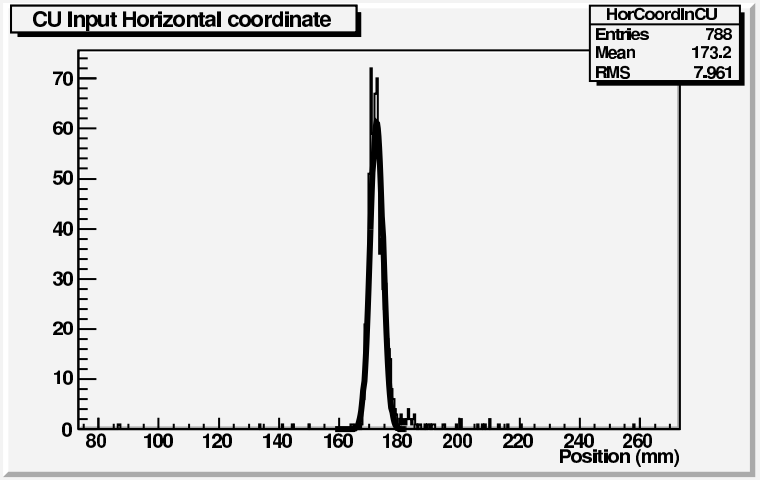

CU Input vertical coordinate
VertCoordInCU
Entries 720
Mean -4.157
RMS 4.491
Position (mm)

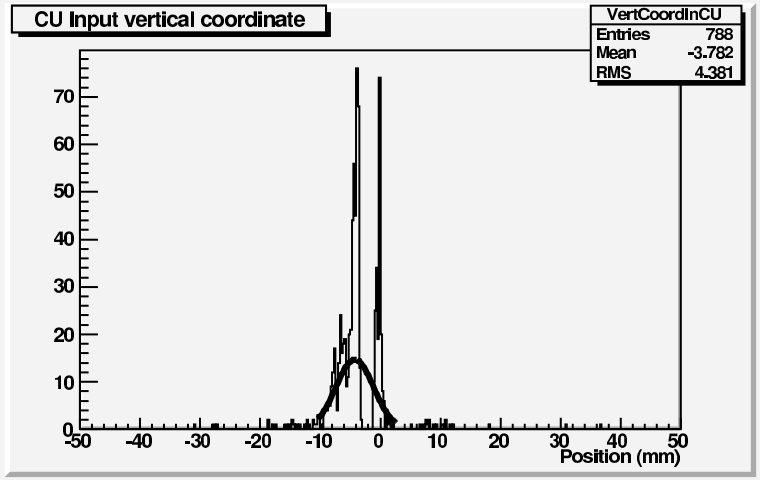

CU Input horizontal angle
HorAngleInCU
Entries 720
Mean 0.008684
RMS 0.001808
Angle (rad)

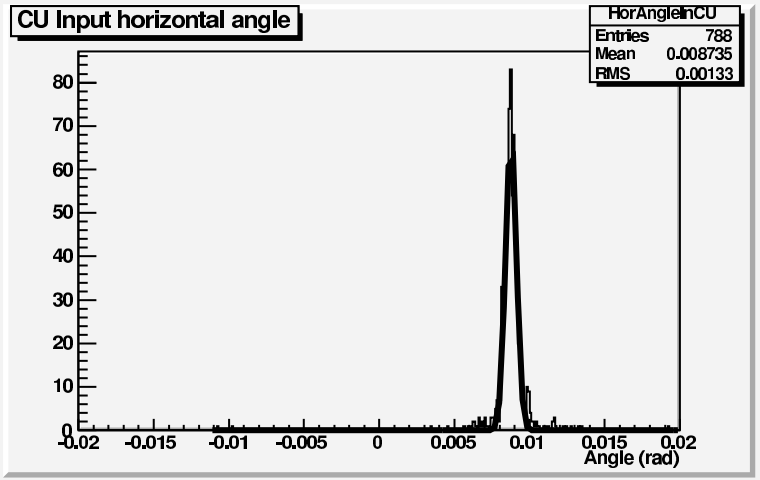

CU Input vertical angle
VertAngleInCU
Entries 720
Mean 0.005825
RMS 0.001926
Angle (rad)

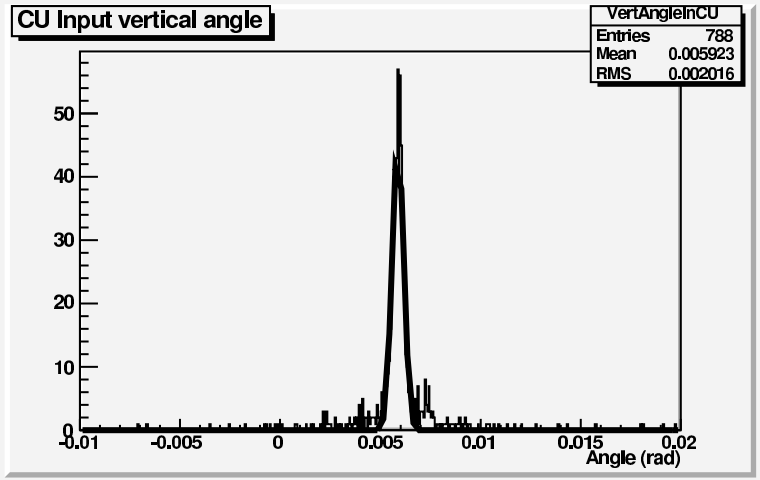

CU Input Beam Spot
SpotCoordInCU
Entries 720
Mean x 144.8
Mean y -4.05
RMS x 4.214
RMS y 3.25
Vertical Position (mm)
Horizontal Position (mm)

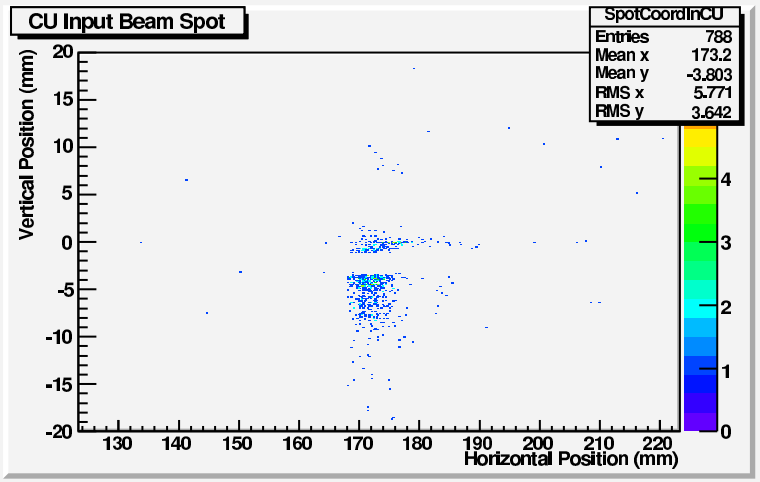

CU Input Beam Spot
SpotAngleInCU
Entries 720
Mean x 0.005839
Mean y 0.008707
RMS x 0.001999
RMS y 0.001784
Vertical Angle (rad)
Horizontal Angle (rad)

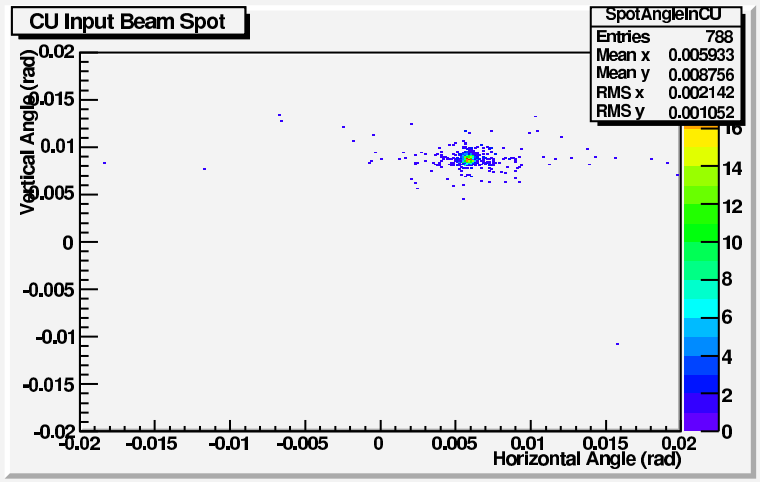

CU Input Horizontal coordinate
HorCoordInCU
Entries 788
Mean 173.2
RMS 7.961
Position (mm)

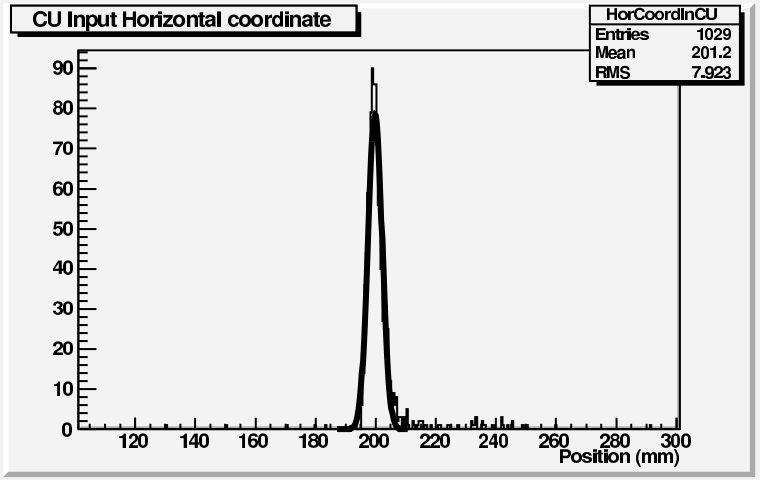

CU Input vertical coordinate
VertCoordInCU
Entries 788
Mean -3.782
RMS 4.381
Position (mm)

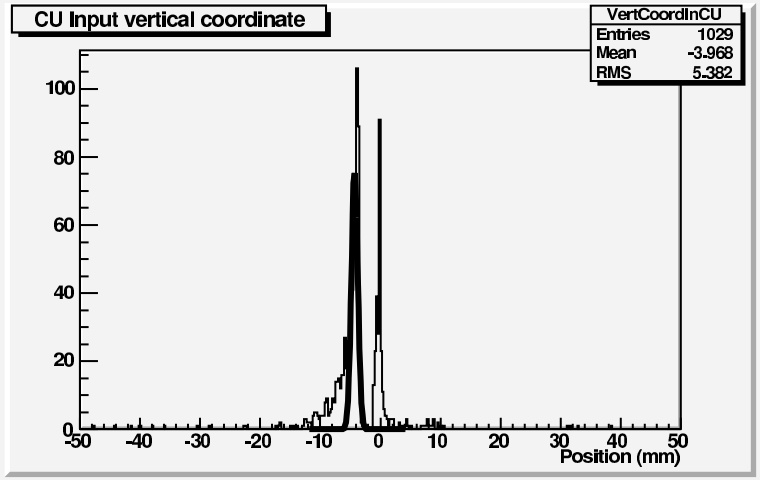

CU Input horizontal angle
HorAngleInCU
Entries 788
Mean 0.008735
RMS 0.00133
Angle (rad)

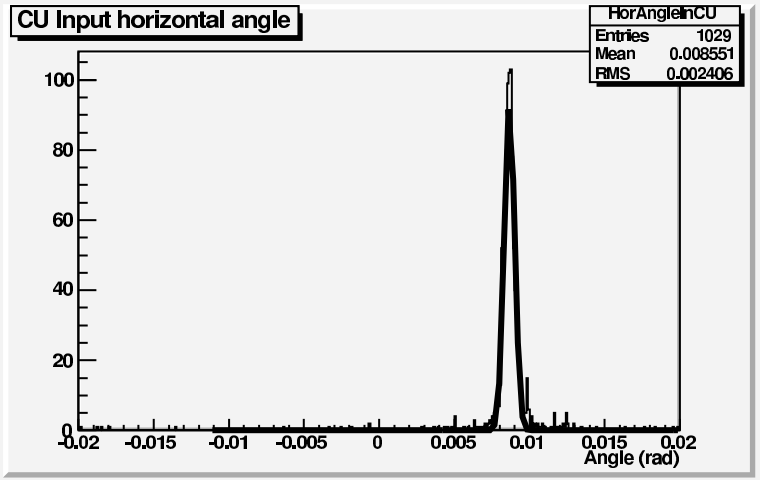

CU Input vertical angle
VertAngleInCU
Entries 788
Mean 0.005923
RMS 0.002016
Angle (rad)

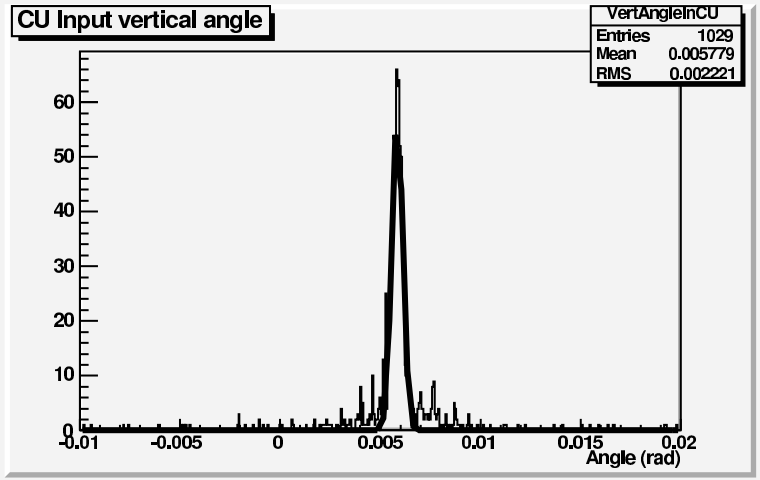

CU Input Beam Spot
SpotCoordInCU
Entries 788
Mean x 173.2
Mean y -3.803
RMS x 5.771
RMS y 3.642
Vertical Position (mm)
Horizontal Position (mm)

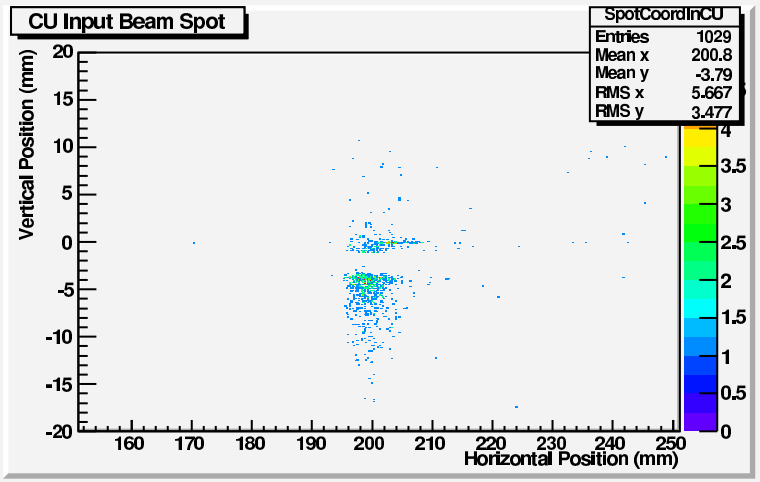

CU Input Beam Spot
SpotAngleInCU
Entries 788
Mean x 0.005933
Mean y 0.008756
RMS x 0.002142
RMS y 0.001052
Vertical Angle (rad)
Horizontal Angle (rad)

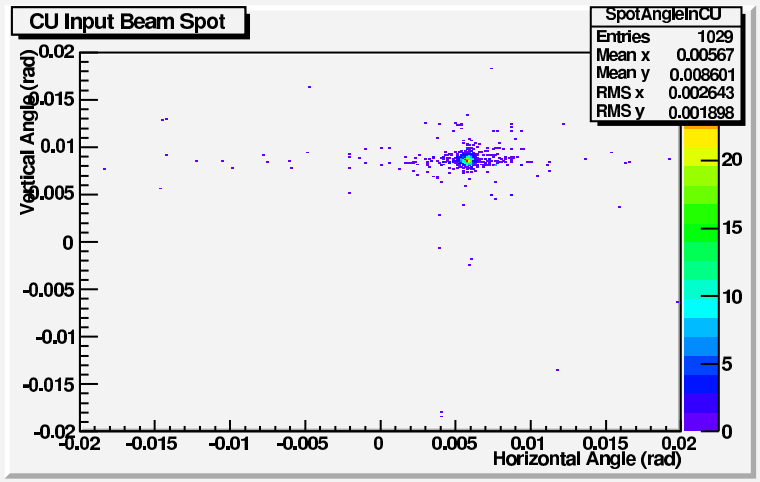

CU Input Horizontal coordinate
HorCoordInCU
Entries 1029
Mean 201.2
RMS 7.923
Position (mm)

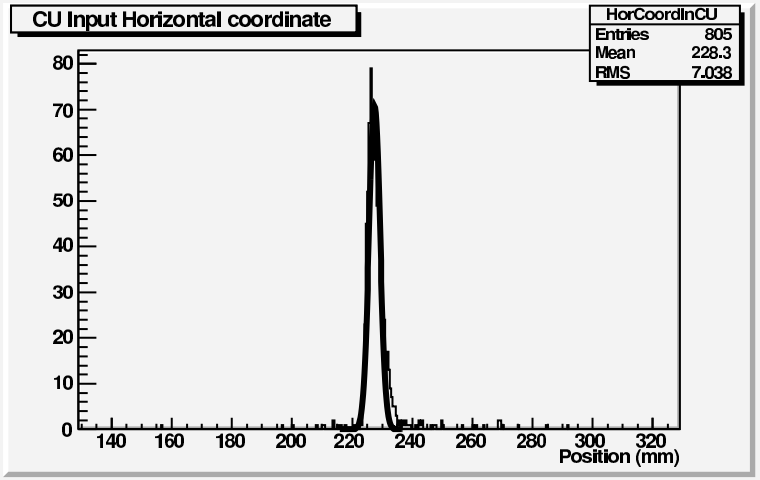

CU Input vertical coordinate
VertCoordInCU
Entries 1029
Mean -3.968
RMS 5.382
Position (mm)

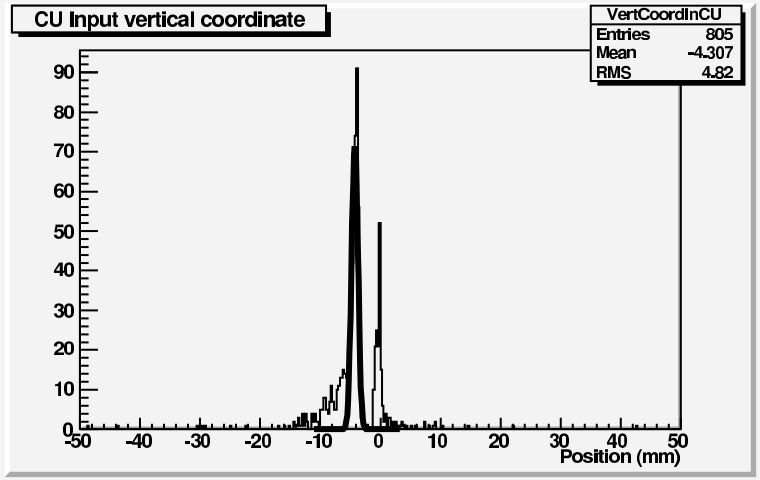

CU Input horizontal angle
HorAngleInCU
Entries 1029
Mean 0.008551
RMS 0.002406
Angle (rad)

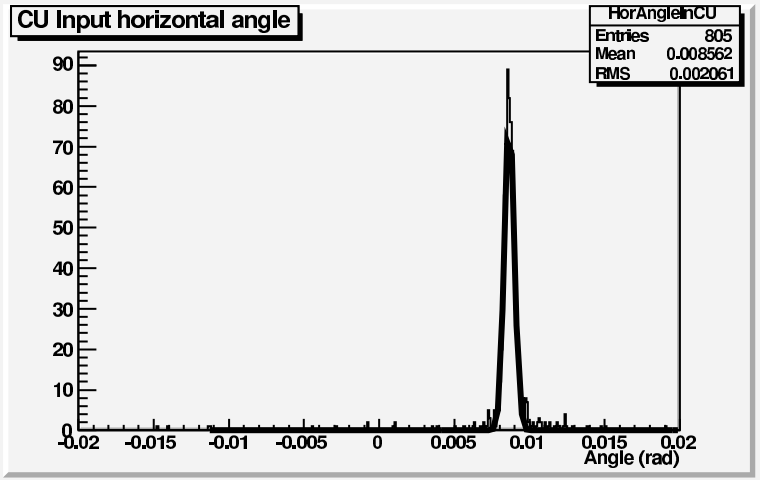

CU Input vertical angle
VertAngleInCU
Entries 1029
Mean 0.005779
RMS 0.002221
Angle (rad)

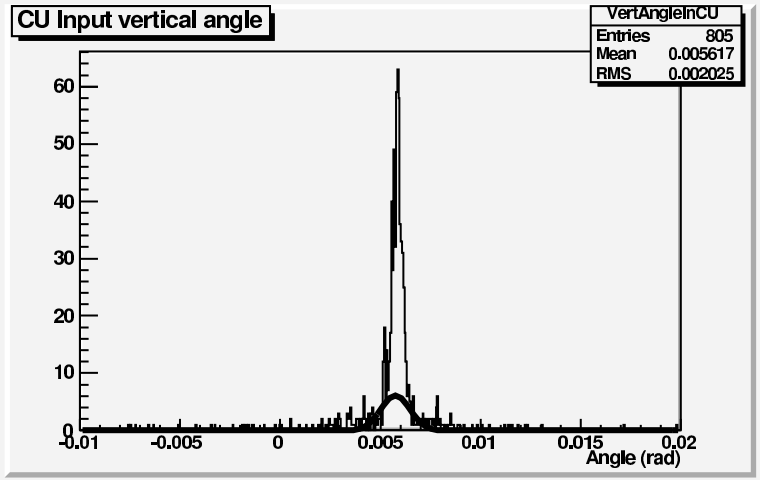

CU Input Beam Spot
SpotCoordInCU
Entries 1029
Mean x 200.8
Mean y -3.79
RMS x 5.667
RMS y 3.477
Vertical Position (mm)
Horizontal Position (mm)

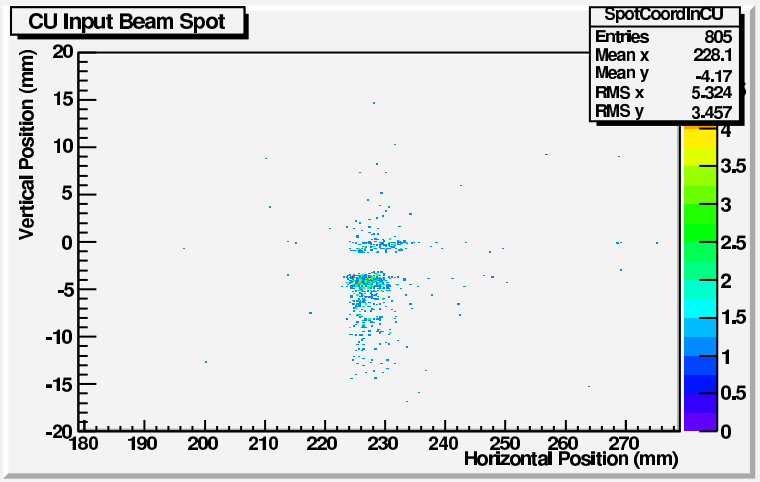

CU Input Beam Spot
SpotAngleInCU
Entries 1029
Mean x 0.00567
Mean y 0.008601
RMS x 0.002643
RMS y 0.001898
Vertical Angle (rad)
Horizontal Angle (rad)

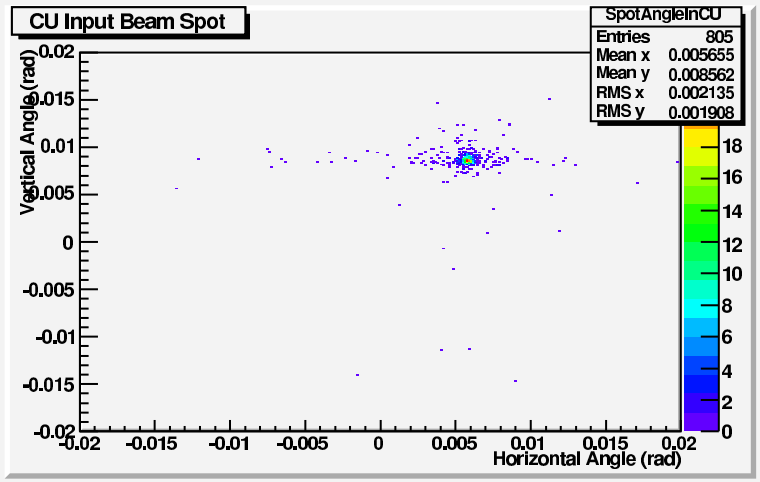

CU Input Horizontal coordinate
HorCoordInCU
Entries 805
Mean 228.3
RMS 7.038
Position (mm)

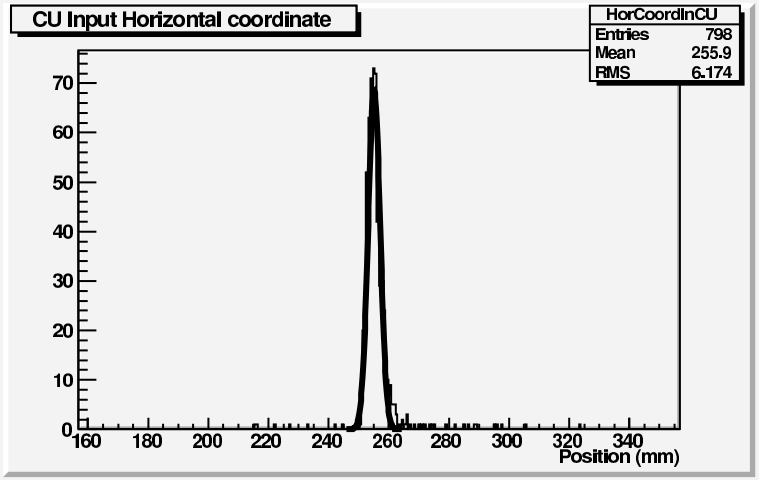

CU Input vertical coordinate
VertCoordInCU
Entries 805
Mean -4.307
RMS 4.82
Position (mm)

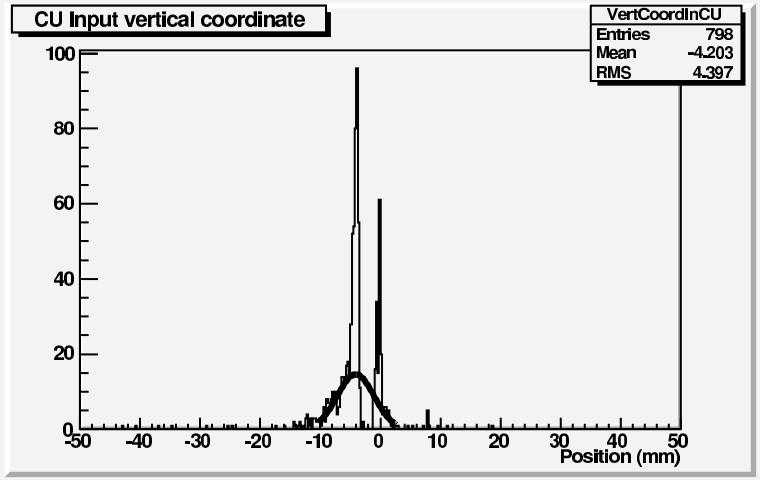

CU Input horizontal angle
HorAngleInCU
Entries 805
Mean 0.008562
RMS 0.002061
Angle (rad)

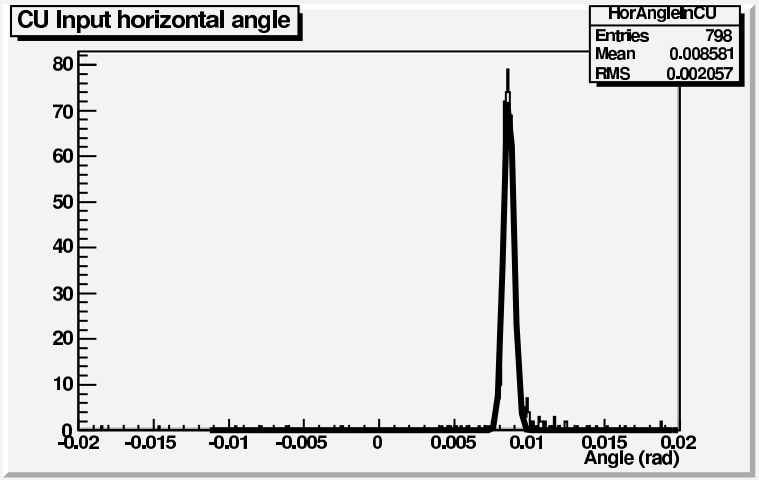

CU Input vertical angle
VertAngleInCU
Entries 805
Mean 0.005617
RMS 0.002025
Angle (rad)

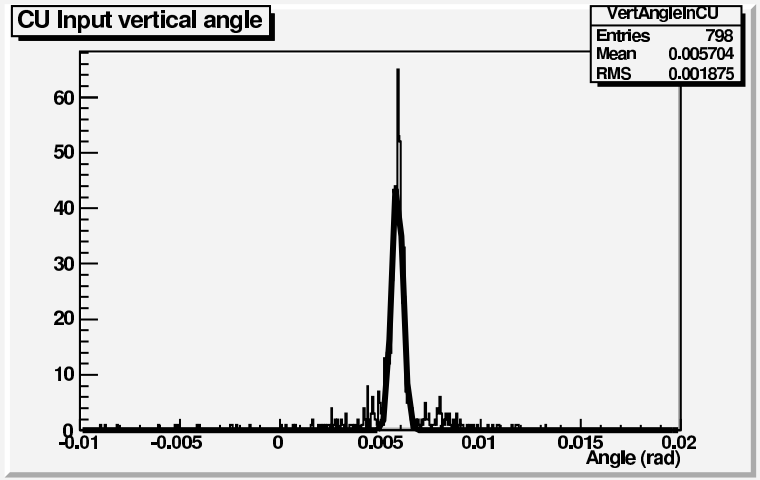

CU Input Beam Spot
SpotCoordInCU
Entries 805
Mean x 228.1
Mean y -4.17
RMS x 5.324
RMS y 3.457
Vertical Position (mm)
Horizontal Position (mm)

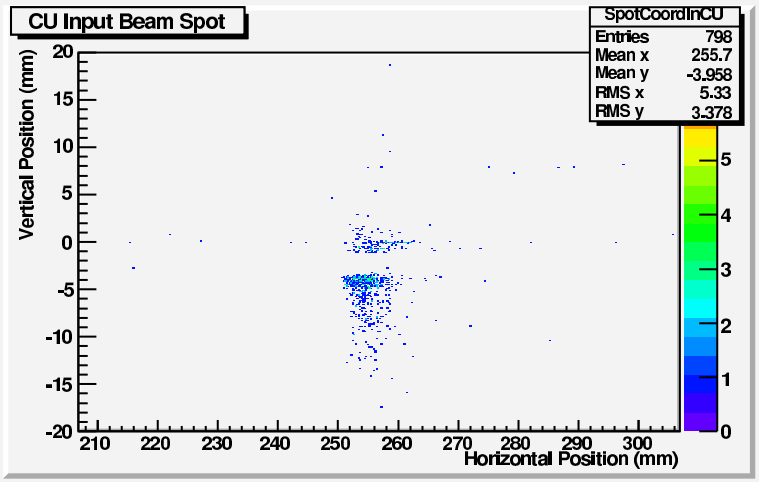

CU Input Beam Spot
SpotAngleInCU
Entries 805
Mean x 0.005655
Mean y 0.008562
RMS x 0.002135
RMS y 0.001908
Vertical Angle (rad)
Horizontal Angle (rad)

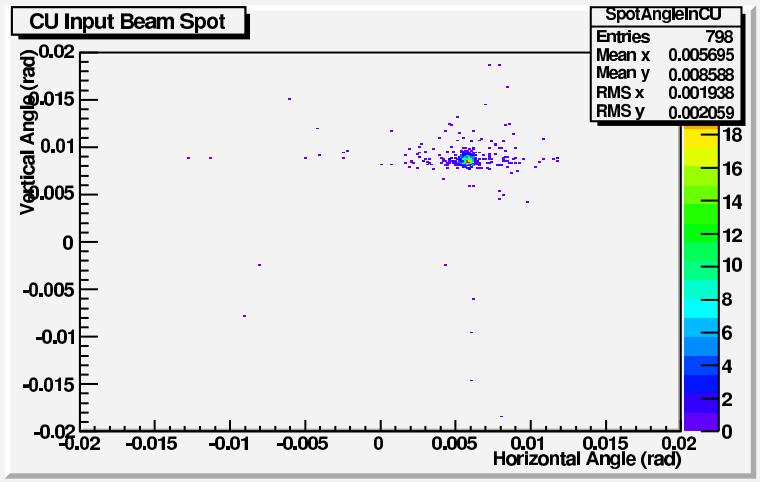

CU Input Horizontal coordinate
HorCoordInCU
Entries 798
Mean 255.9
RMS 6.174
Position (mm)

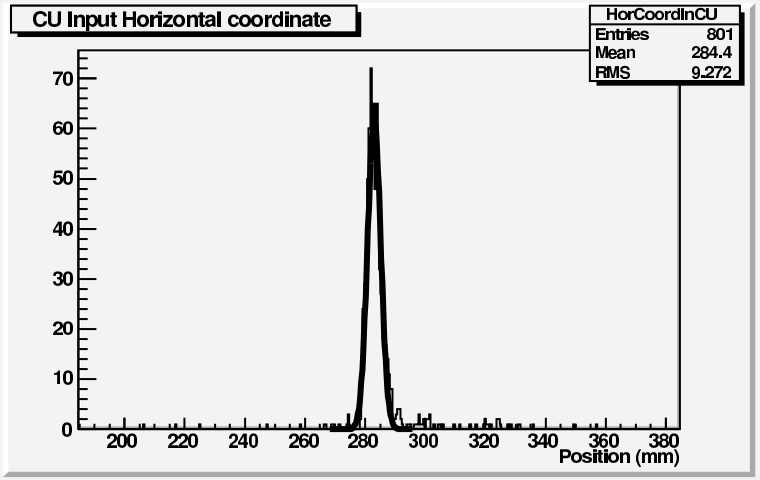

CU Input vertical coordinate
VertCoordInCU
Entries 798
Mean -4.203
RMS 4.397
Position (mm)

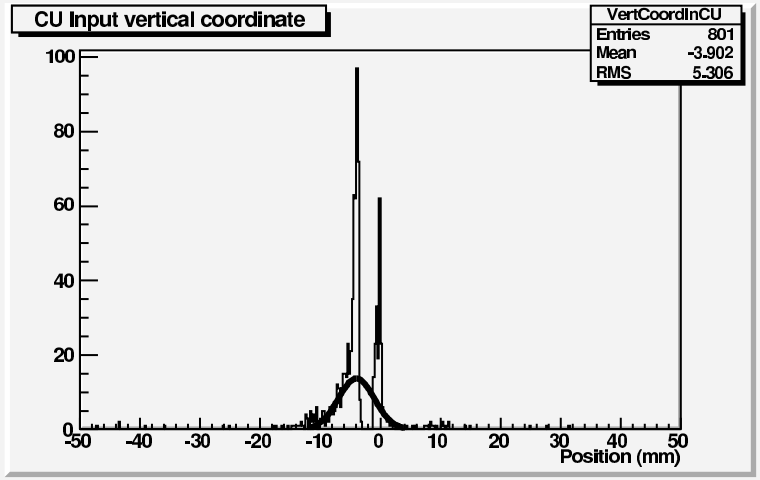

CU Input horizontal angle
HorAngleInCU
Entries 798
Mean 0.008581
RMS 0.002057
Angle (rad)

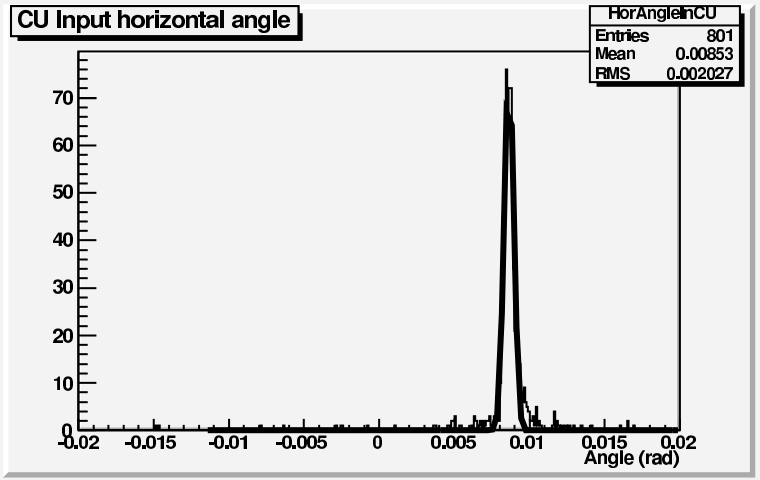

CU Input vertical angle
VertAngleInCU
Entries 798
Mean 0.005704
RMS 0.001875
Angle (rad)

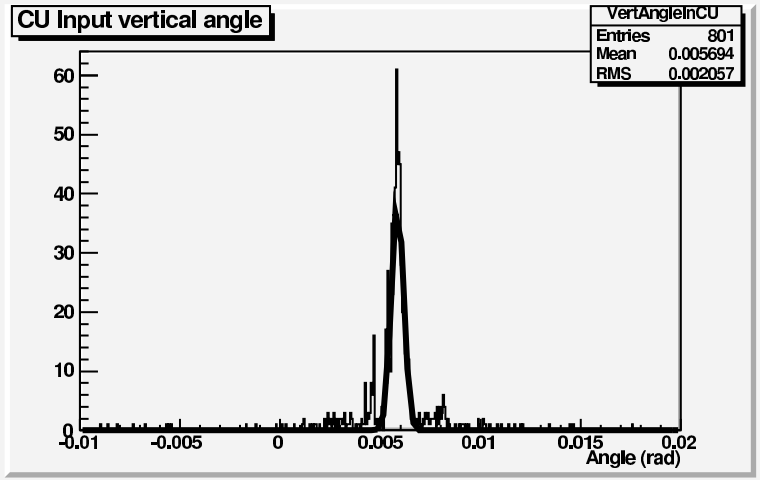

CU Input Beam Spot
SpotCoordInCU
Entries 798
Mean x 255.7
Mean y -3.958
RMS x 5.33
RMS y 3.378
Vertical Position (mm)
Horizontal Position (mm)

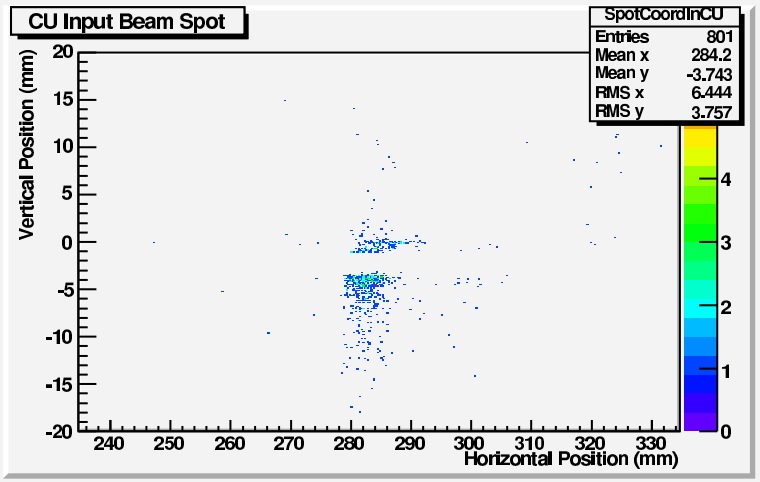

CU Input Beam Spot
SpotAngleInCU
Entries 798
Mean x 0.005695
Mean y 0.008588
RMS x 0.001938
RMS y 0.002059
Vertical Angle (rad)
Horizontal Angle (rad)

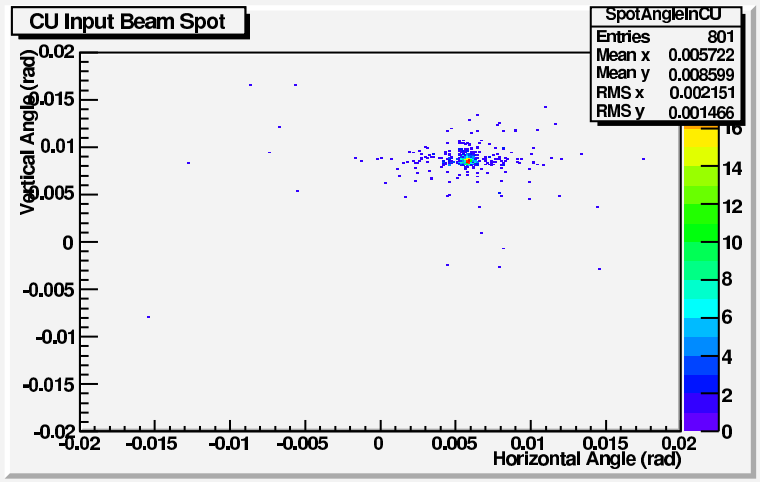

CU Input Horizontal coordinate
HorCoordInCU
Entries 801
Mean 284.4
RMS 9.272
Position (mm)

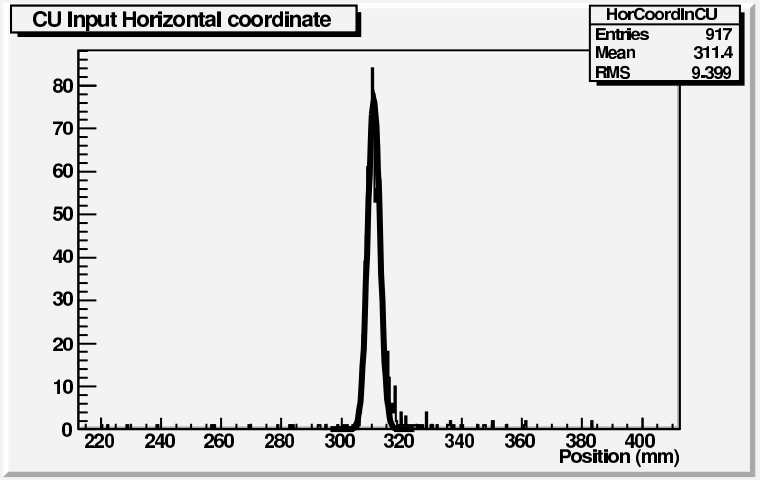

CU Input vertical coordinate
VertCoordInCU
Entries 801
Mean -3.902
RMS 5.306
Position (mm)

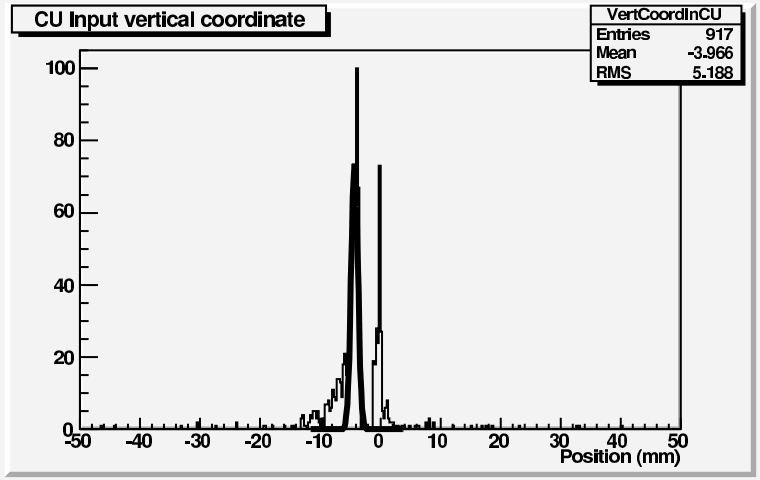

CU Input horizontal angle
HorAngleInCU
Entries 801
Mean 0.00853
RMS 0.002027
Angle (rad)

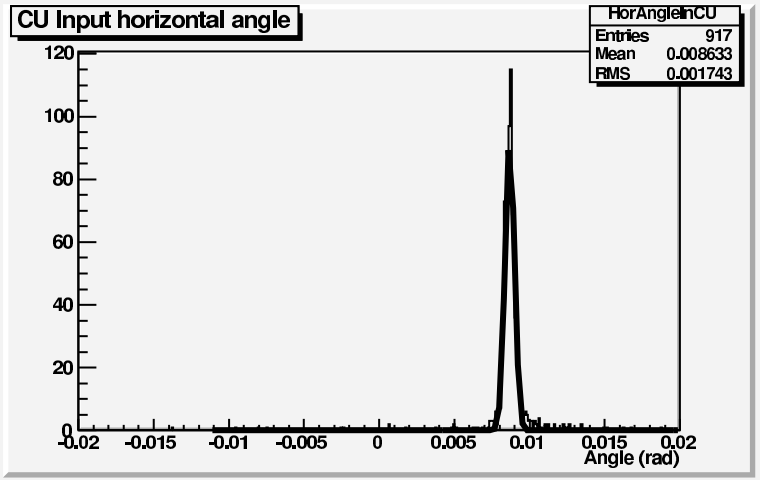

CU Input vertical angle
VertAngleInCU
Entries 801
Mean 0.005694
RMS 0.002057
Angle (rad)

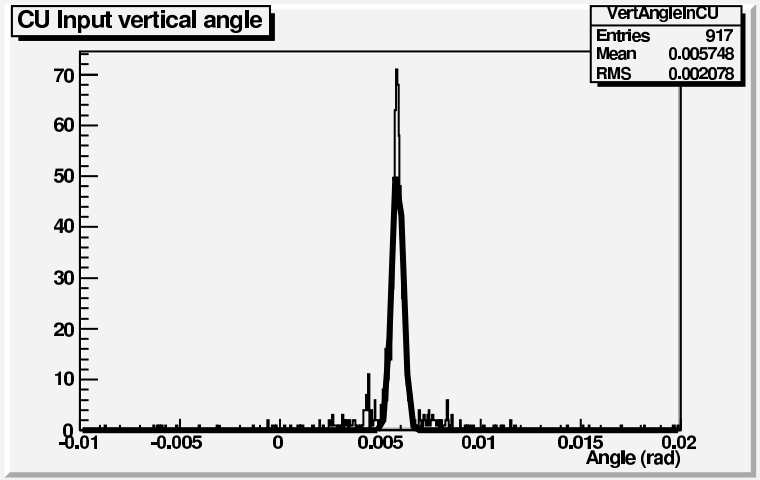

CU Input Beam Spot
SpotCoordInCU
Entries 801
Mean x 284.2
Mean y -3.743
RMS x 6.444
RMS y 3.757
Vertical Position (mm)
Horizontal Position (mm)

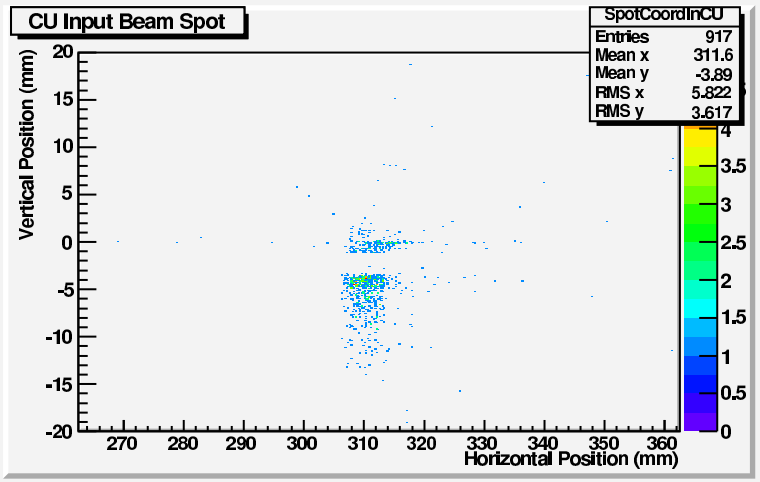

CU Input Beam Spot
SpotAngleInCU
Entries 801
Mean x 0.005722
Mean y 0.008599
RMS x 0.002151
RMS y 0.001466
Vertical Angle (rad)
Horizontal Angle (rad)

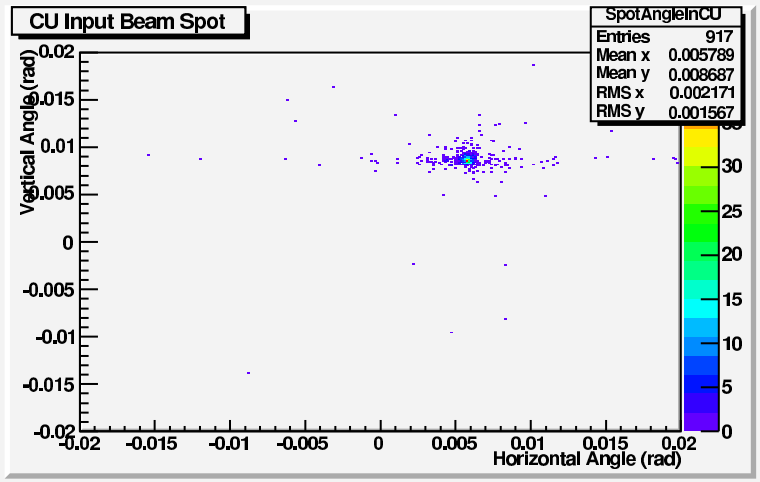

CU Input Horizontal coordinate
HorCoordInCU
Entries 917
Mean 311.4
RMS 9.399
Position (mm)

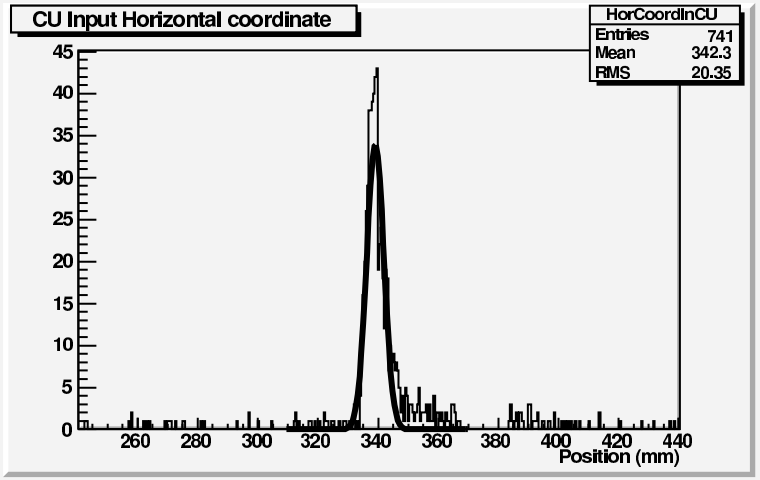

CU Input vertical coordinate
VertCoordInCU
Entries 917
Mean -3.966
RMS 5.188
Position (mm)

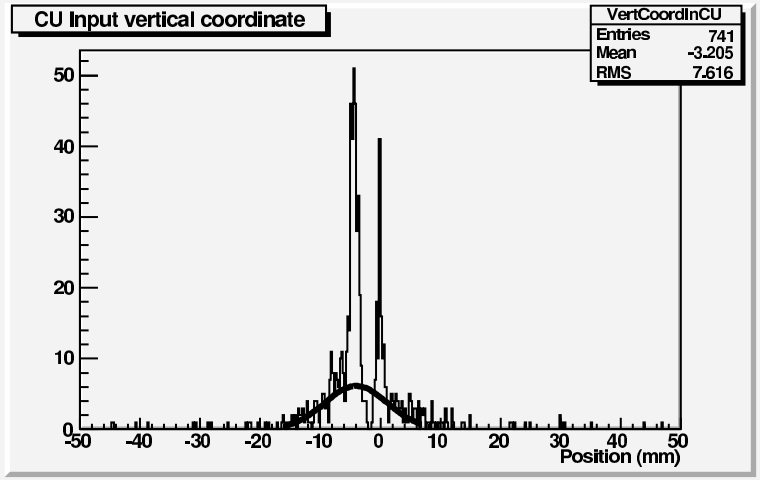

CU Input horizontal angle
HorAngleInCU
Entries 917
Mean 0.008633
RMS 0.001743
Angle (rad)

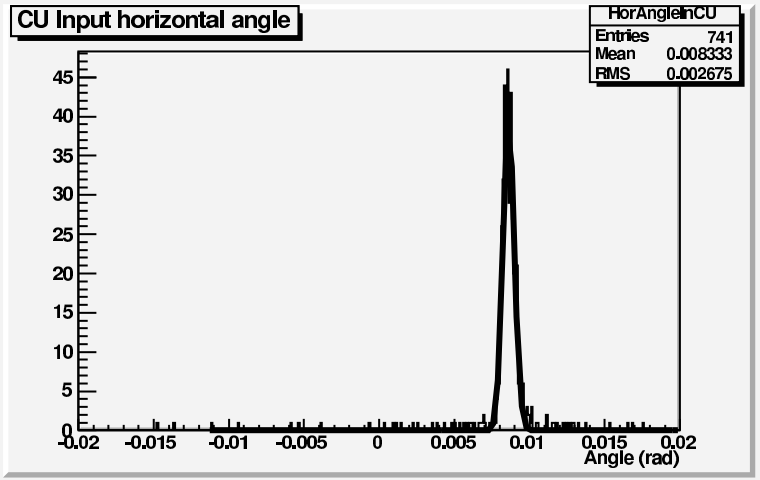

CU Input vertical angle
VertAngleInCU
Entries 917
Mean 0.005748
RMS 0.002078
Angle (rad)

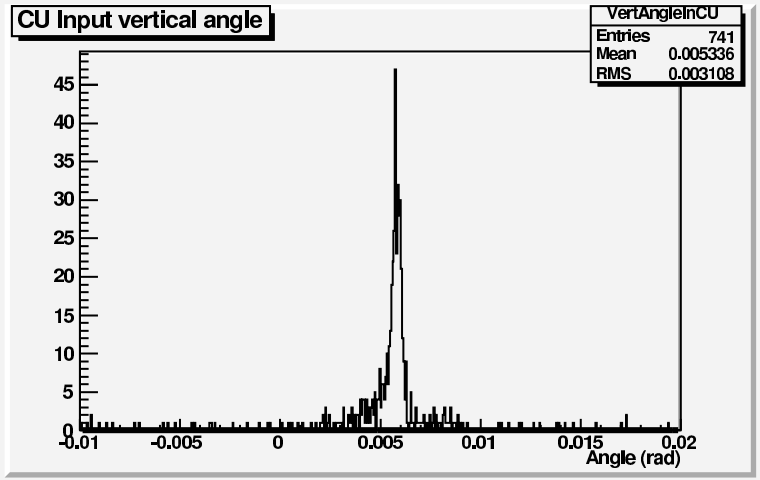

CU Input Beam Spot
SpotCoordInCU
Entries 917
Mean x 311.6
Mean y -3.89
RMS x 5.822
RMS y 3.617
Vertical Position (mm)
Horizontal Position (mm)

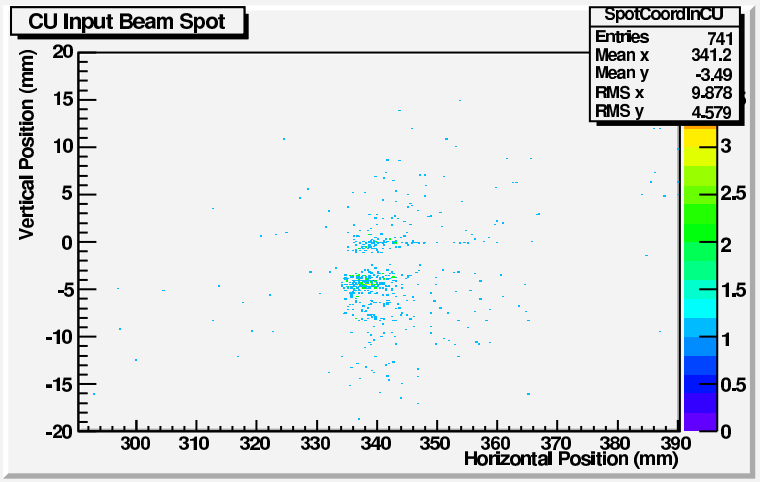

CU Input Beam Spot
SpotAngleInCU
Entries 917
Mean x 0.005789
Mean y 0.008687
RMS x 0.002171
RMS y 0.001567
Vertical Angle (rad)
Horizontal Angle (rad)

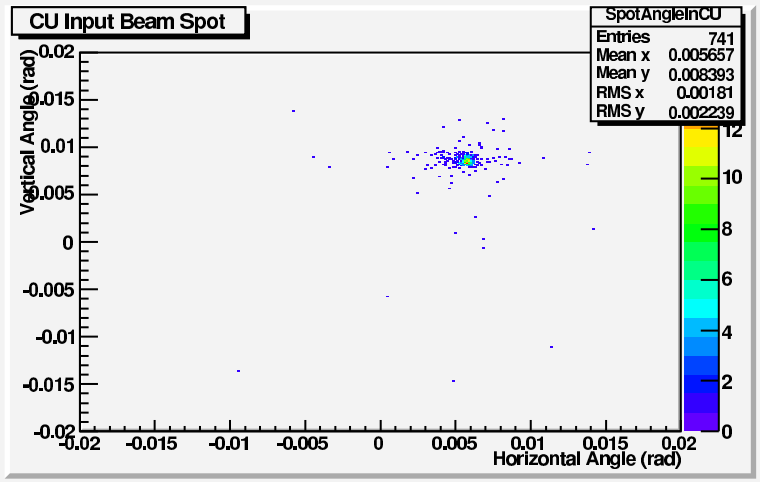

CU Input Horizontal coordinate
HorCoordInCU
Entries 741
Mean 342.3
RMS 20.35
Position (mm)

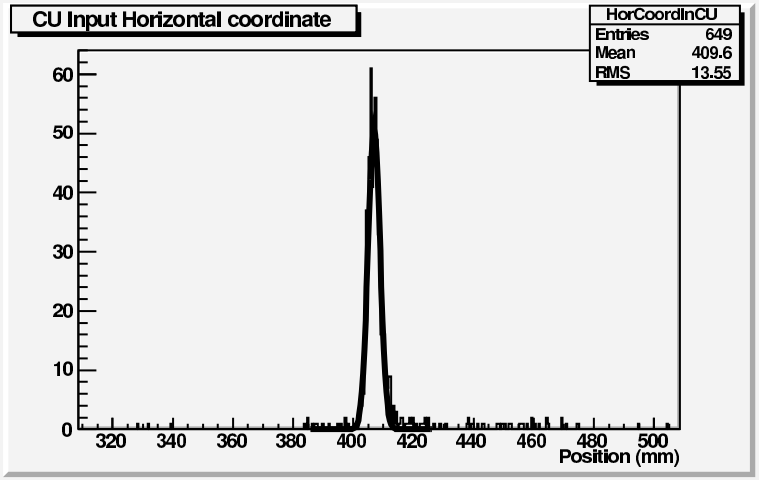

CU Input vertical coordinate
VertCoordInCU
Entries 741
Mean -3.205
RMS 7.616
Position (mm)

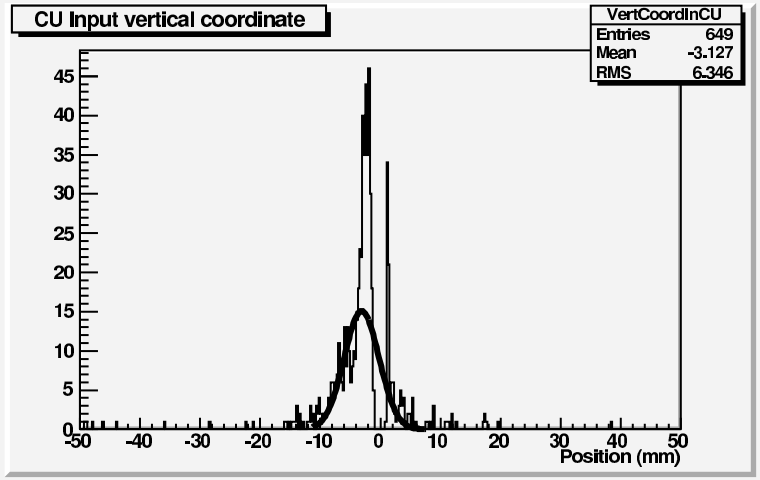

CU Input horizontal angle
HorAngleInCU
Entries 741
Mean 0.008333
RMS 0.002675
Angle (rad)

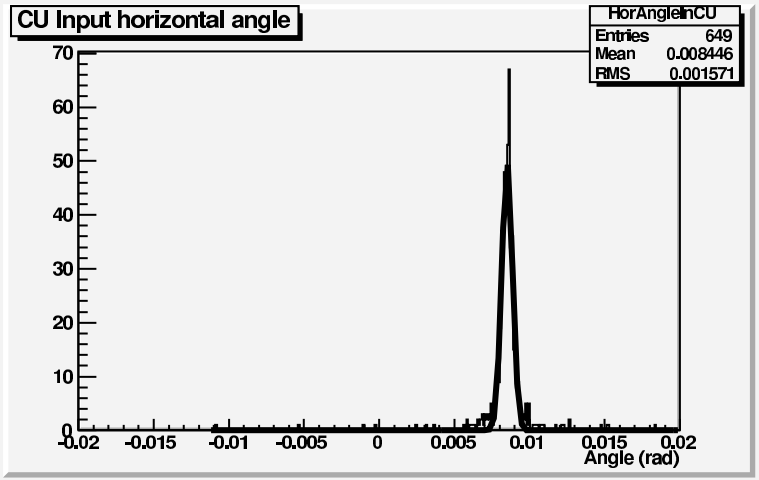

CU Input vertical angle
VertAngleInCU
Entries 741
Mean 0.005336
RMS 0.003108
Angle (rad)

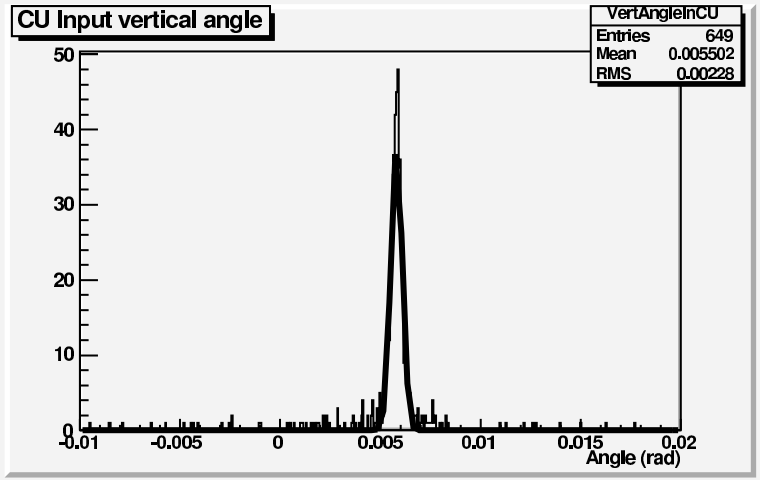

CU Input Beam Spot
SpotCoordInCU
Entries 741
Mean x 341.2
Mean y -3.49
RMS x 9.878
RMS y 4.579
Vertical Position (mm)
Horizontal Position (mm)

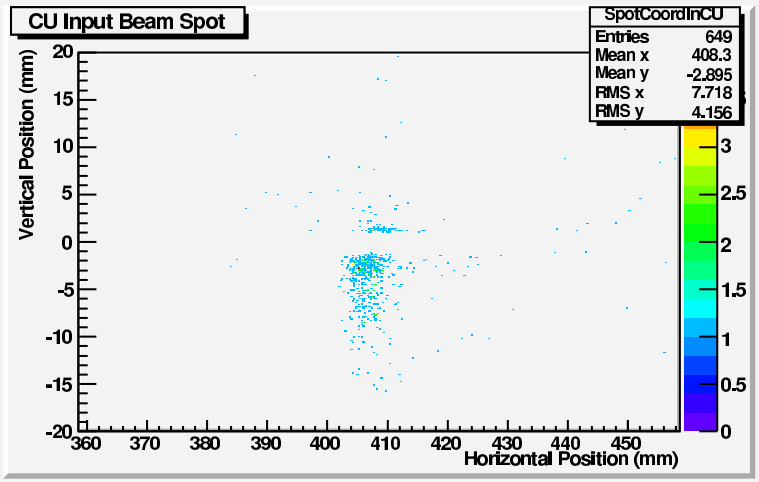

CU Input Beam Spot
SpotAngleInCU
Entries 741
Mean x 0.005657
Mean y 0.008393
RMS x 0.00181
RMS y 0.002239
Vertical Angle (rad)
Horizontal Angle (rad)

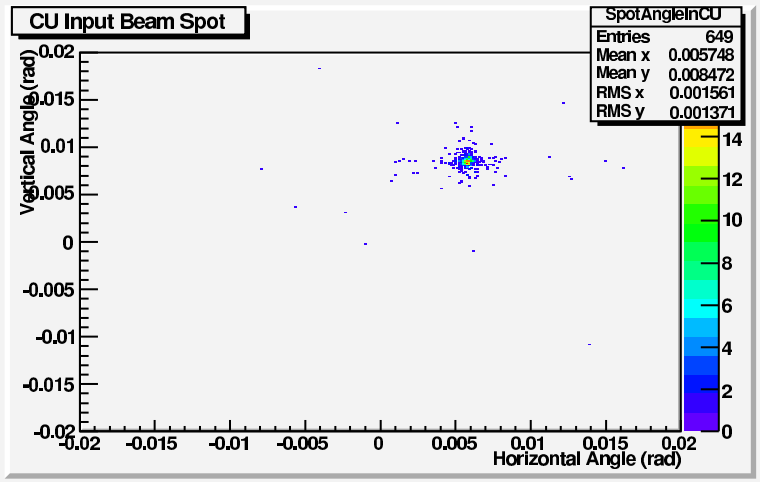

CU Input Horizontal coordinate
HorCoordInCU
Entries 649
Mean 409.6
RMS 13.55
Position (mm)

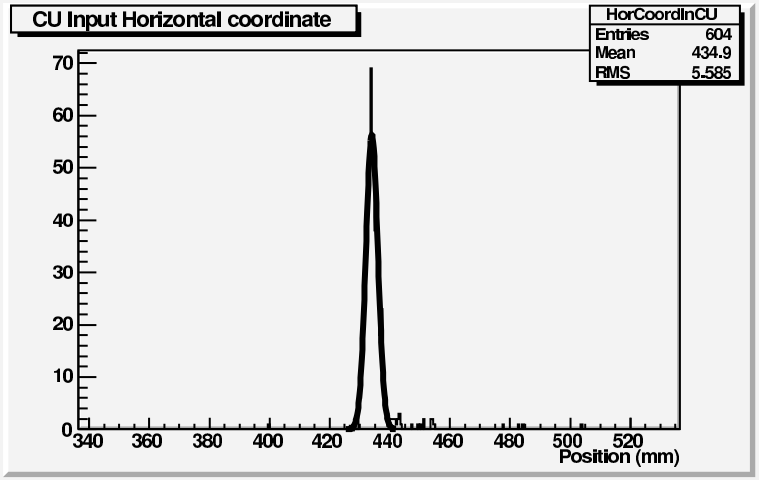

CU Input vertical coordinate
VertCoordInCU
Entries 649
Mean -3.127
RMS 6.346
Position (mm)

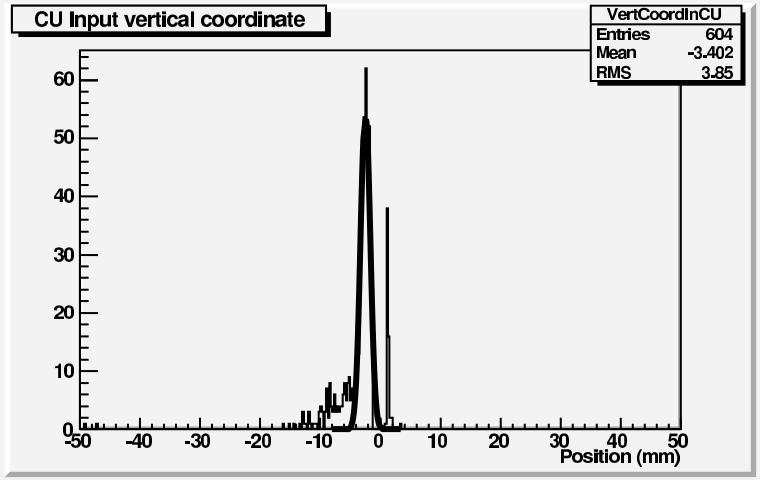

CU Input horizontal angle
HorAngleInCU
Entries 649
Mean 0.008446
RMS 0.001571
Angle (rad)

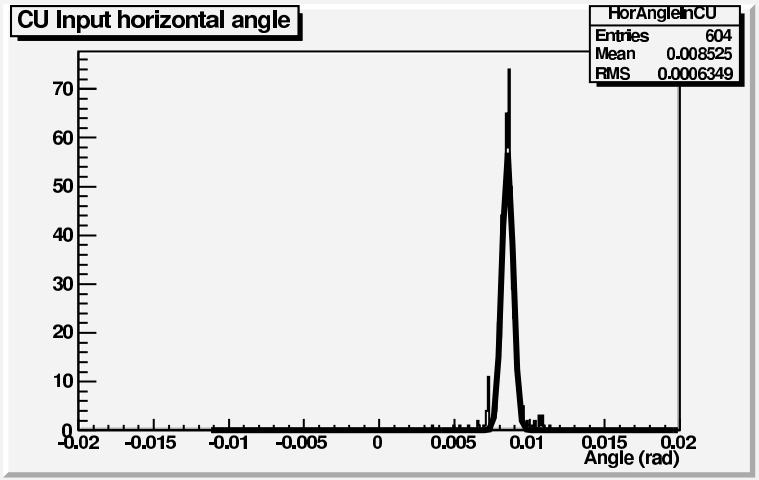

CU Input vertical angle
VertAngleInCU
Entries 649
Mean 0.005502
RMS 0.00228
Angle (rad)

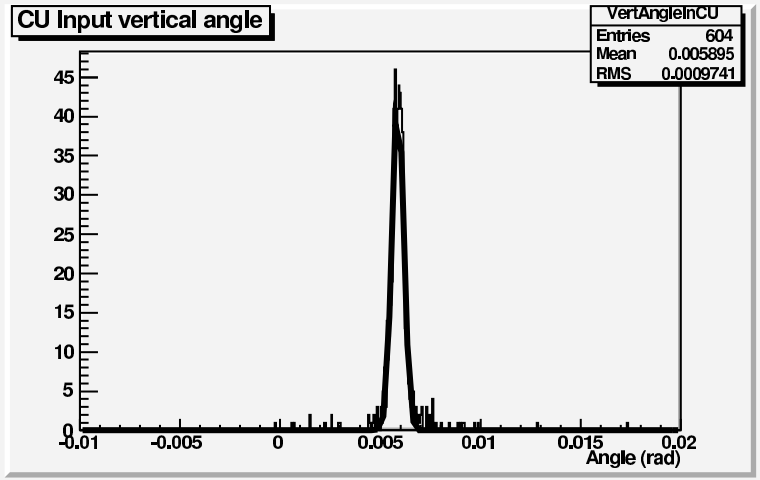

CU Input Beam Spot
SpotCoordInCU
Entries 649
Mean x 408.3
Mean y -2.895
RMS x 7.718
RMS y 4.156
Vertical Position (mm)
Horizontal Position (mm)

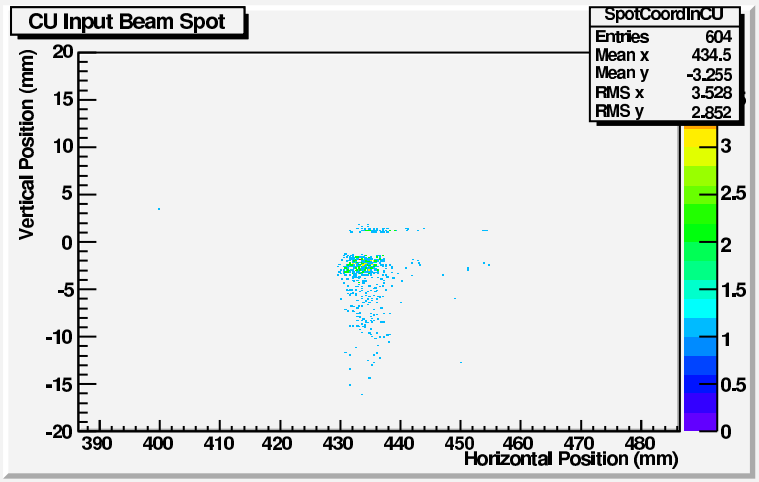

CU Input Beam Spot
SpotAngleInCU
Entries 649
Mean x 0.005748
Mean y 0.008472
RMS x 0.001561
RMS y 0.001371
Vertical Angle (rad)
Horizontal Angle (rad)

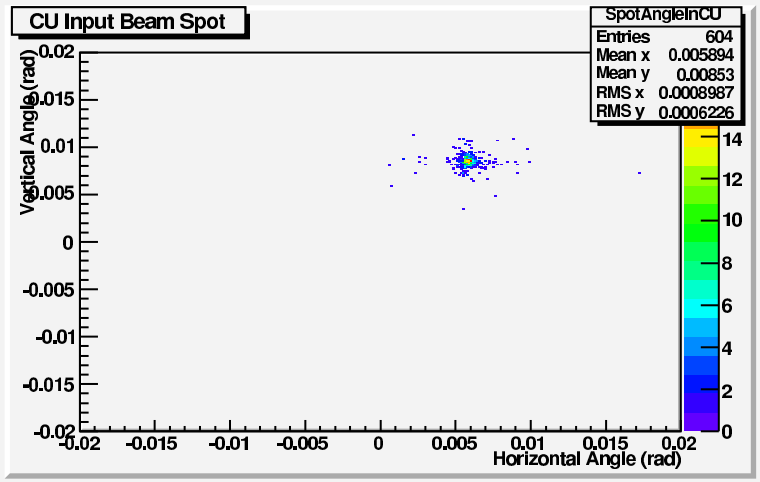

CU Input Horizontal coordinate
HorCoordInCU
Entries 604
Mean 434.9
RMS 5.585
Position (mm)

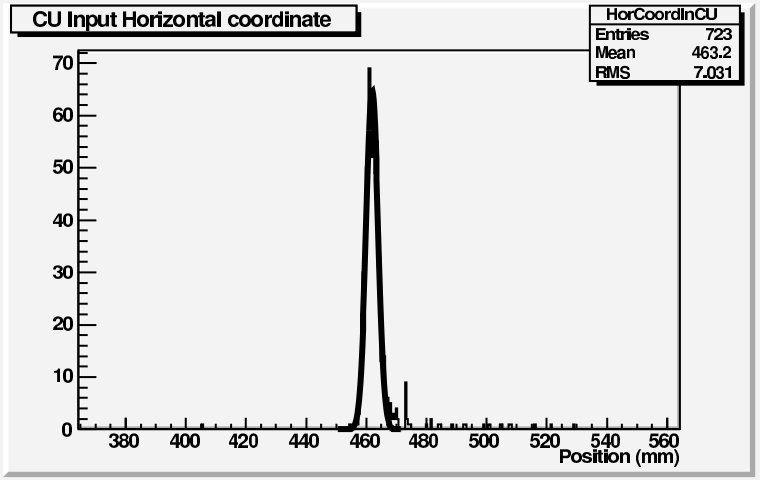

CU Input vertical coordinate
VertCoordInCU
Entries 604
Mean -3.402
RMS 3.85
Position (mm)

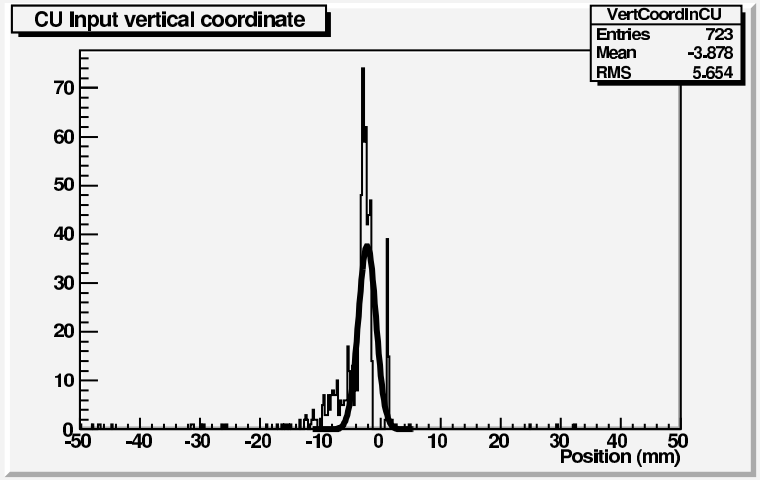

CU Input horizontal angle
HorAngleInCU
Entries 604
Mean 0.008525
RMS 0.0006349
Angle (rad)

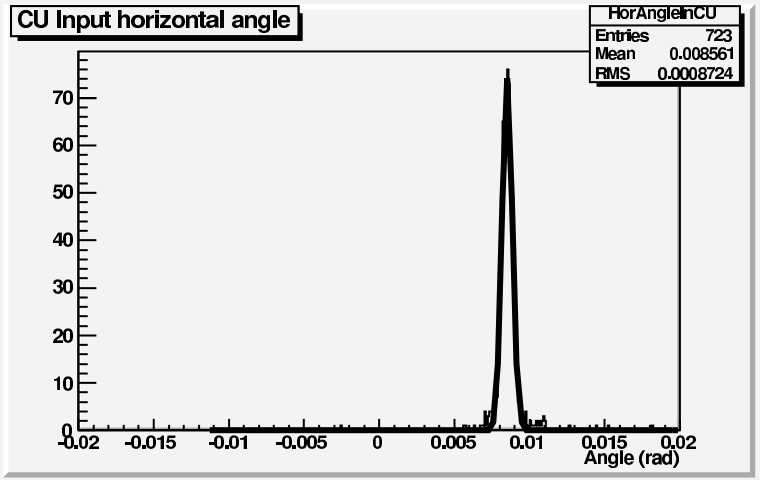

CU Input vertical angle
VertAngleInCU
Entries 604
Mean 0.005895
RMS 0.0009741
Angle (rad)

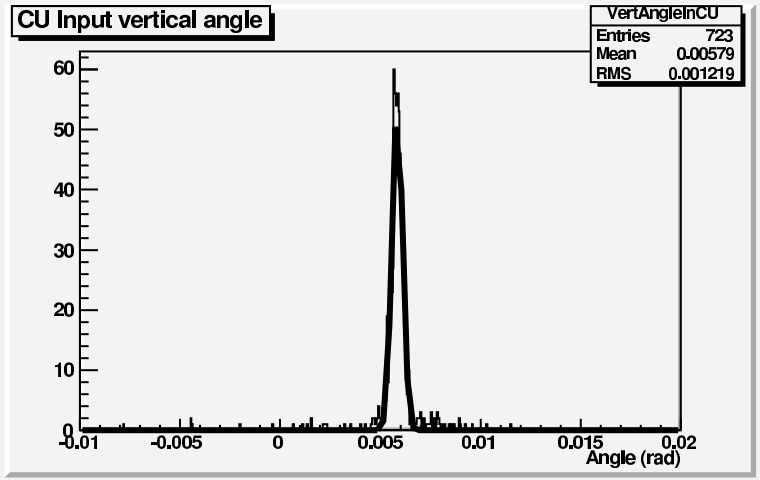

CU Input Beam Spot
SpotCoordInCU
Entries 604
Mean x 434.5
Mean y -3.255
RMS x 3.528
RMS y 2.852
Vertical Position (mm)
Horizontal Position (mm)

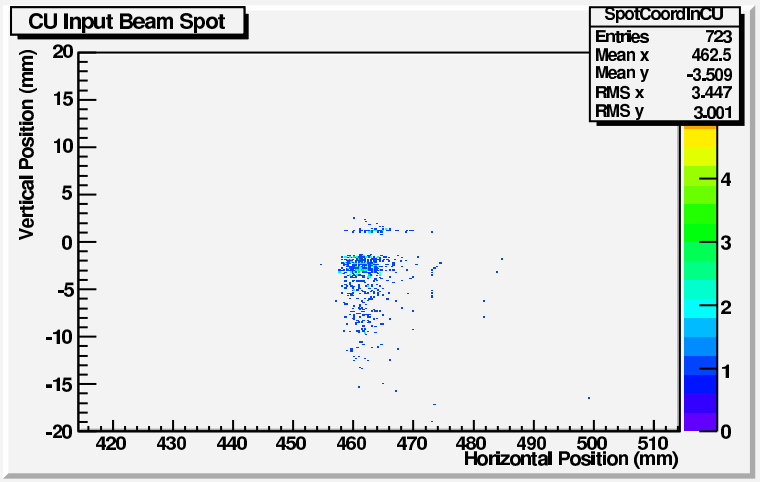

CU Input Beam Spot
SpotAngleInCU
Entries 604
Mean x 0.005894
Mean y 0.00853
RMS x 0.0008987
RMS y 0.0006226
Vertical Angle (rad)
Horizontal Angle (rad)

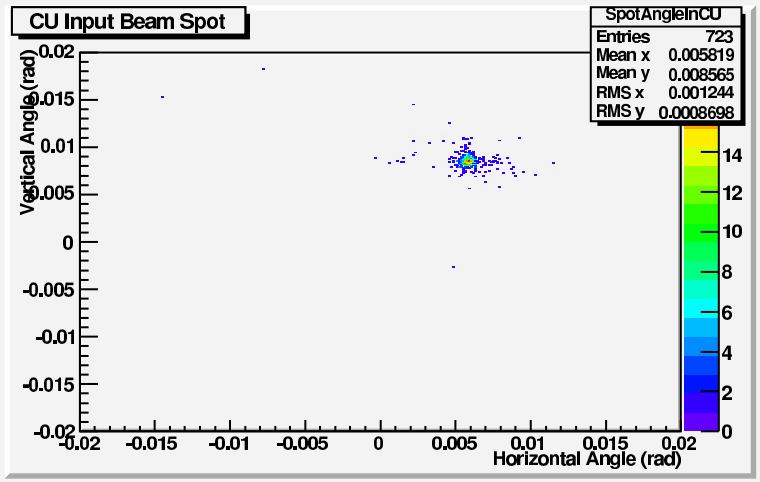

CU Input Horizontal coordinate
HorCoordInCU
Entries 723
Mean 463.2
RMS 7.031
Position (mm)

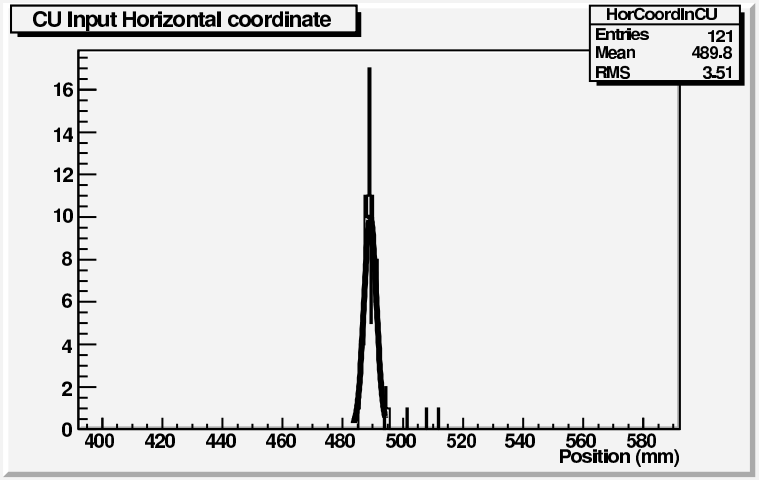

CU Input vertical coordinate
VertCoordInCU
Entries 723
Mean -3.878
RMS 5.654
Position (mm)

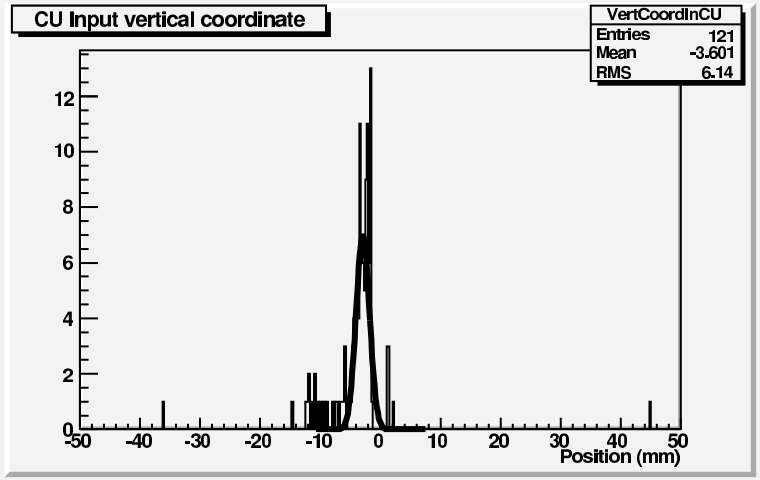

CU Input horizontal angle
HorAngleInCU
Entries 723
Mean 0.008561
RMS 0.0008724
Angle (rad)

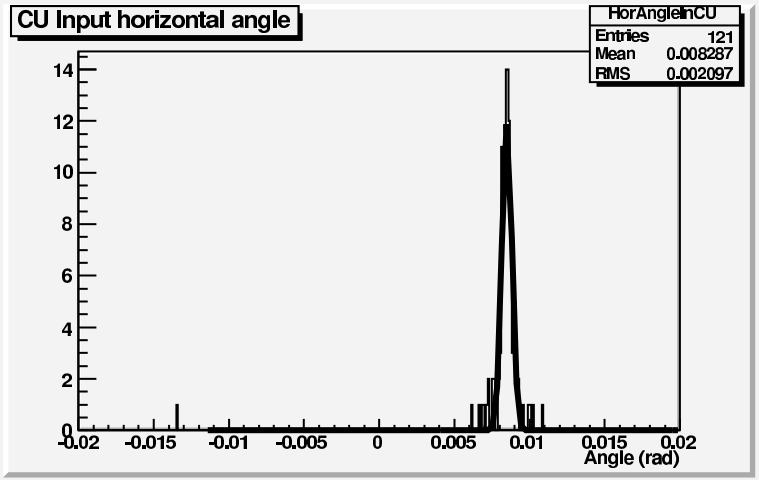

CU Input vertical angle
VertAngleInCU
Entries 723
Mean 0.00579
RMS 0.001219
Angle (rad)

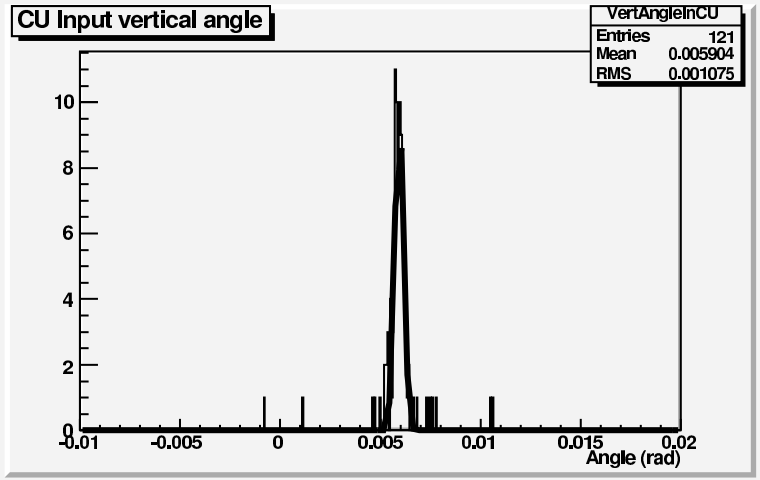

CU Input Beam Spot
SpotCoordInCU
Entries 723
Mean x 462.5
Mean y -3.509
RMS x 3.447
RMS y 3.001
Vertical Position (mm)
Horizontal Position (mm)

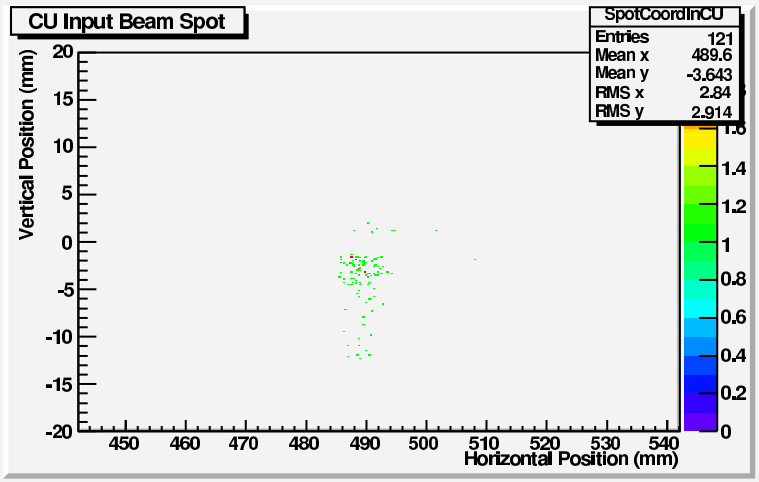

CU Input Beam Spot
SpotAngleInCU
Entries 723
Mean x 0.005819
Mean y 0.008565
RMS x 0.001244
RMS y 0.0008698
Vertical Angle (rad)
Horizontal Angle (rad)

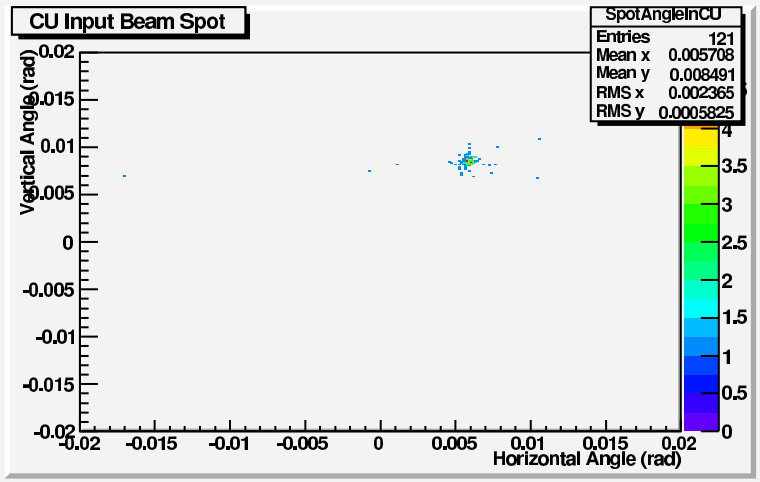

CU Input Horizontal coordinate
HorCoordInCU
Entries 121
Mean 489.8
RMS 3.51
Position (mm)

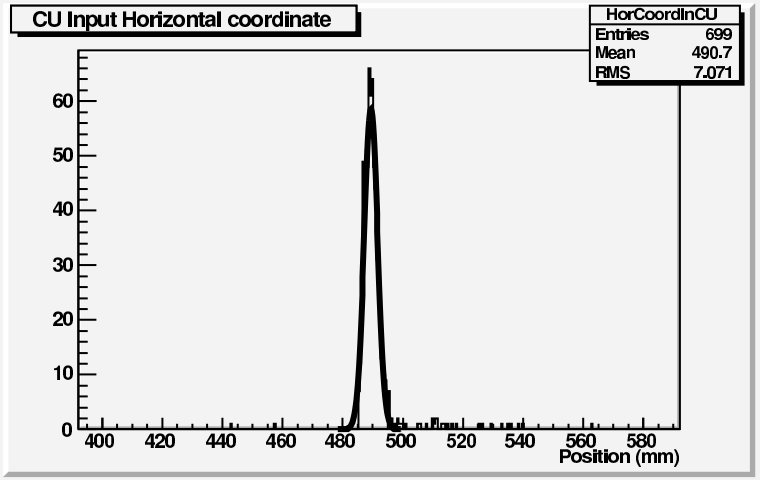

CU Input vertical coordinate
VertCoordInCU
Entries 121
Mean -3.601
RMS 6.14
Position (mm)

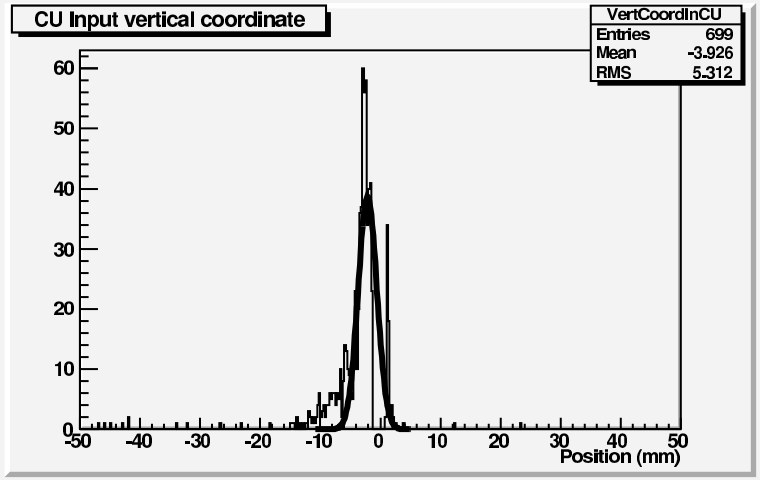

CU Input horizontal angle
HorAngleInCU
Entries 121
Mean 0.008287
RMS 0.002097
Angle (rad)

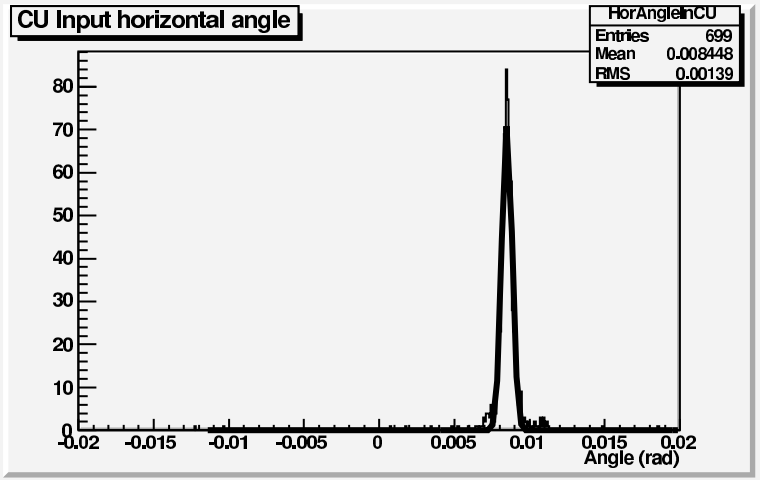

CU Input vertical angle
VertAngleInCU
Entries 121
Mean 0.005904
RMS 0.001075
Angle (rad)

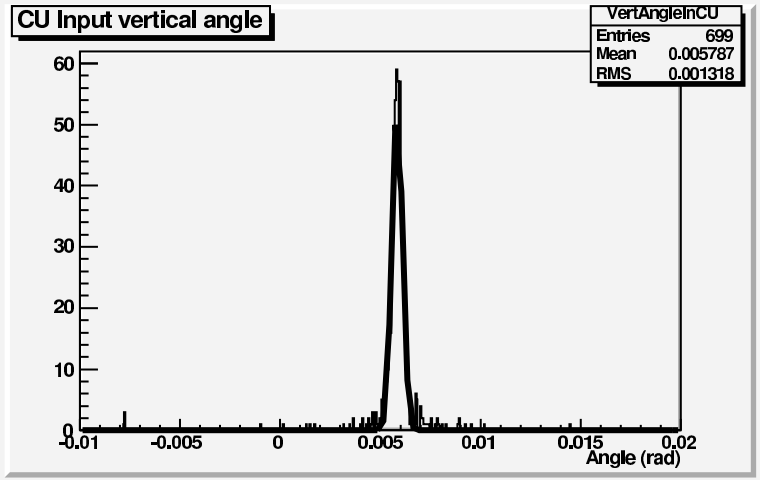

CU Input Beam Spot
SpotCoordInCU
Entries 121
Mean x 489.6
Mean y -3.643
RMS x 2.84
RMS y 2.914
Vertical Position (mm)
Horizontal Position (mm)

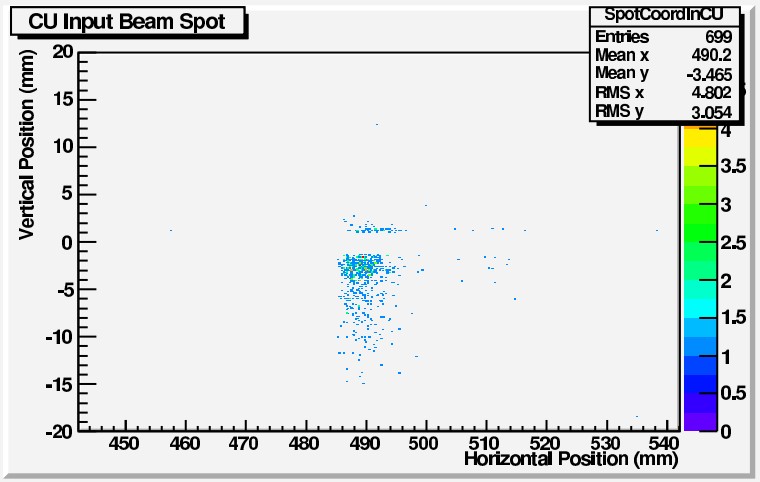

CU Input Beam Spot
SpotAngleInCU
Entries 121
Mean x 0.005708
Mean y 0.008491
RMS x 0.002365
RMS y 0.0005825
Vertical Angle (rad)
Horizontal Angle (rad)

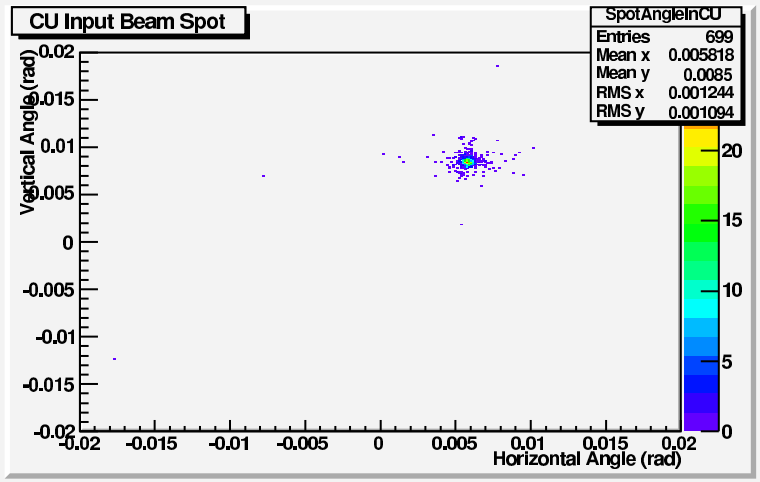

CU Input Horizontal coordinate
HorCoordInCU
Entries 699
Mean 490.7
RMS 7.071
Position (mm)

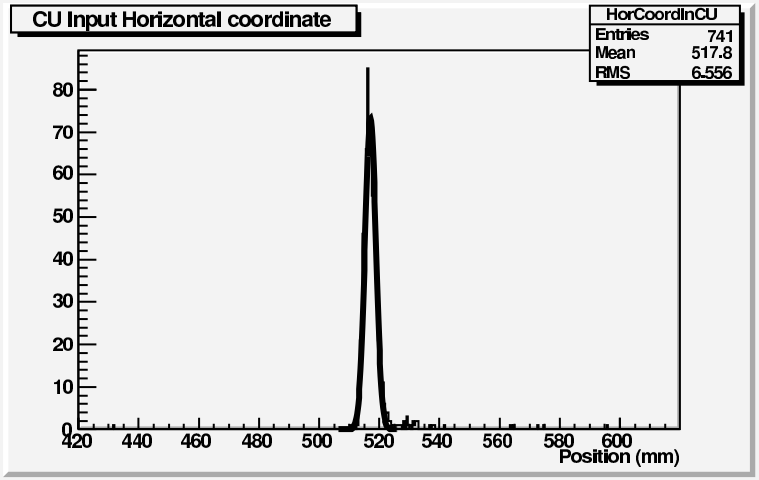

CU Input vertical coordinate
VertCoordInCU
Entries 699
Mean -3.926
RMS 5.312
Position (mm)

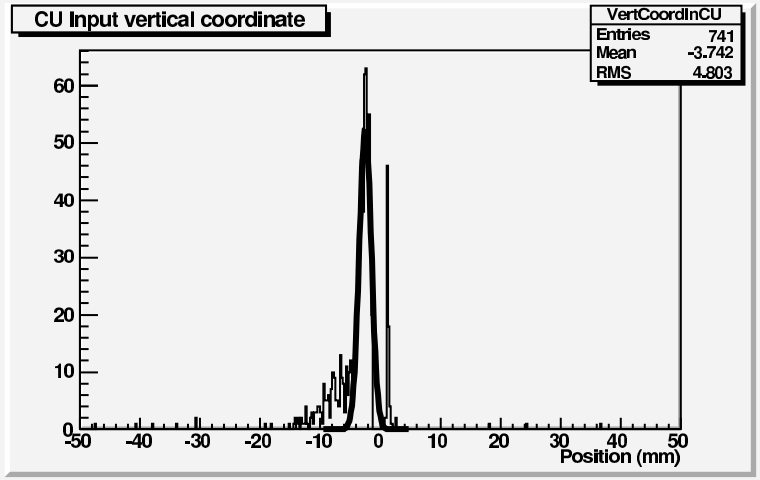

CU Input horizontal angle
HorAngleInCU
Entries 699
Mean 0.008448
RMS 0.00139
Angle (rad)

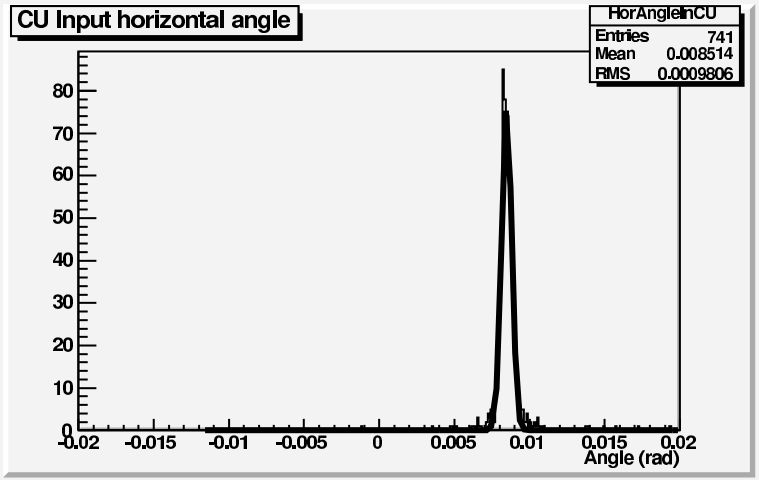

CU Input vertical angle
VertAngleInCU
Entries 699
Mean 0.005787
RMS 0.001318
Angle (rad)

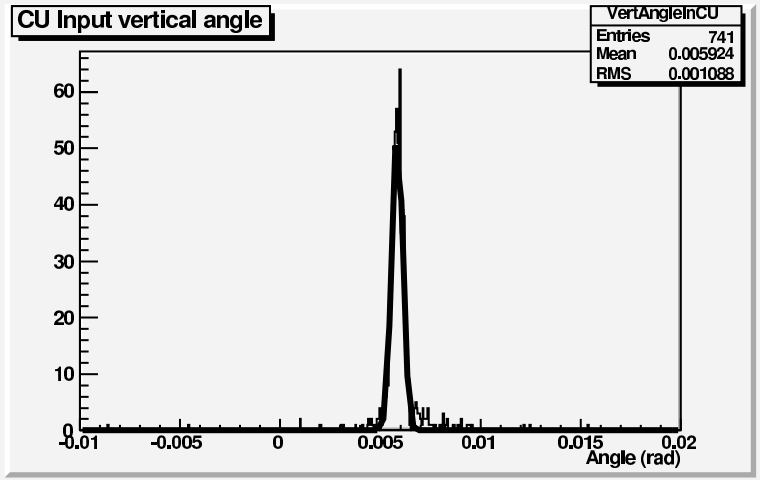

CU Input Beam Spot
SpotCoordInCU
Entries 699
Mean x 490.2
Mean y -3.465
RMS x 4.802
RMS y 3.054
Vertical Position (mm)
Horizontal Position (mm)

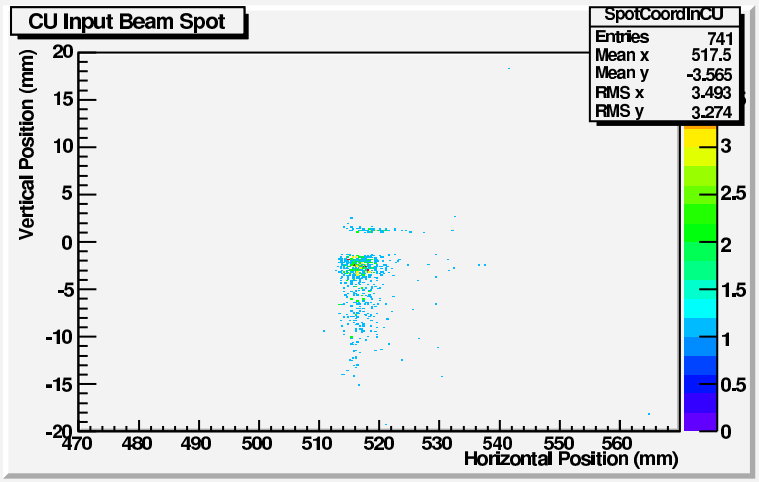

CU Input Beam Spot
SpotAngleInCU
Entries 699
Mean x 0.005818
Mean y 0.0085
RMS x 0.001244
RMS y 0.001094
Vertical Angle (rad)
Horizontal Angle (rad)

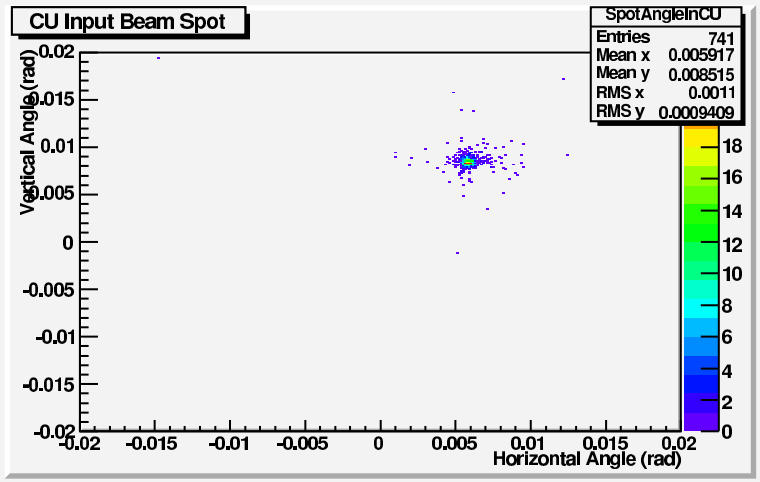

CU Input Horizontal coordinate
HorCoordInCU
Entries 741
Mean 517.8
RMS 6.556
Position (mm)

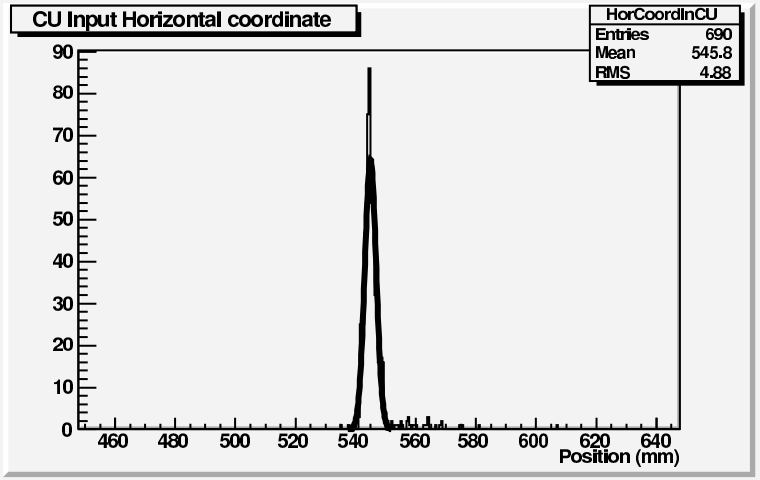

CU Input vertical coordinate
VertCoordInCU
Entries 741
Mean -3.742
RMS 4.803
Position (mm)

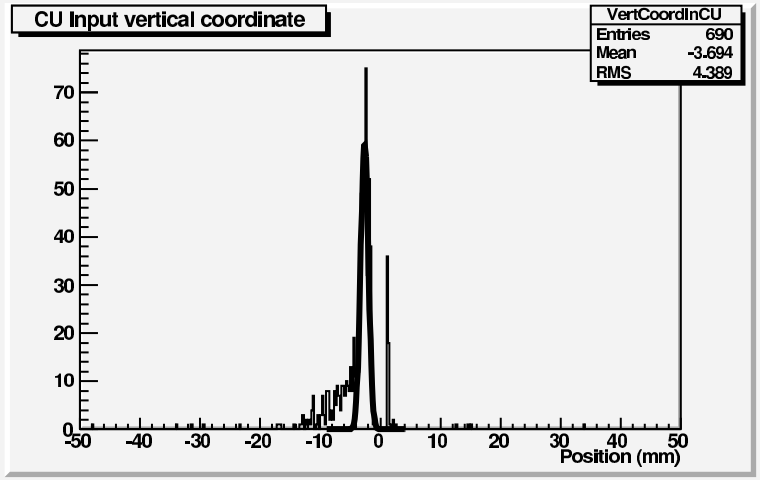

CU Input horizontal angle
HorAngleInCU
Entries 741
Mean 0.008514
RMS 0.0009806
Angle (rad)

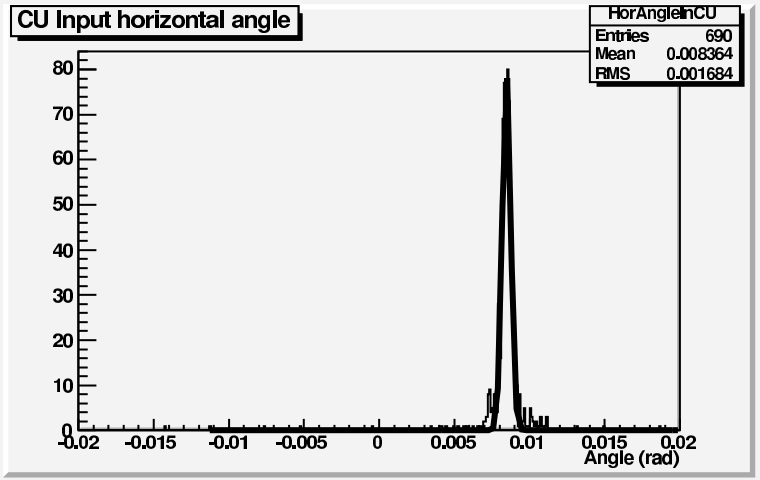

CU Input vertical angle
VertAngleInCU
Entries 741
Mean 0.005924
RMS 0.001088
Angle (rad)

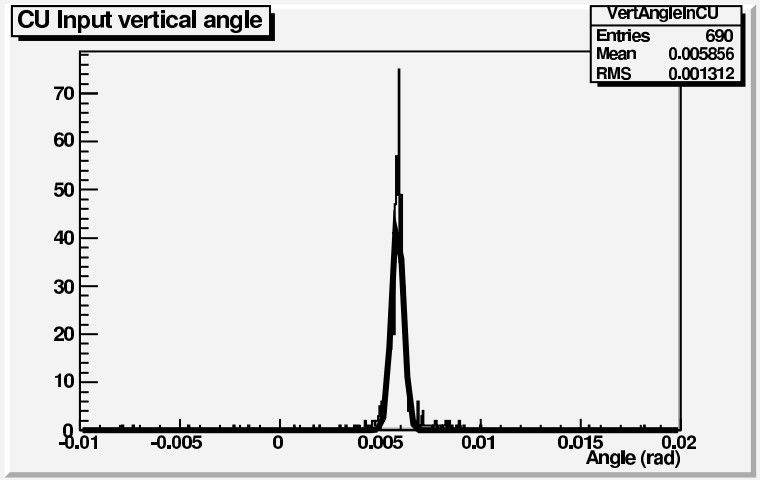

CU Input Beam Spot
SpotCoordInCU
Entries 741
Mean x 517.5
Mean y -3.565
RMS x 3.493
RMS y 3.274
Vertical Position (mm)
Horizontal Position (mm)

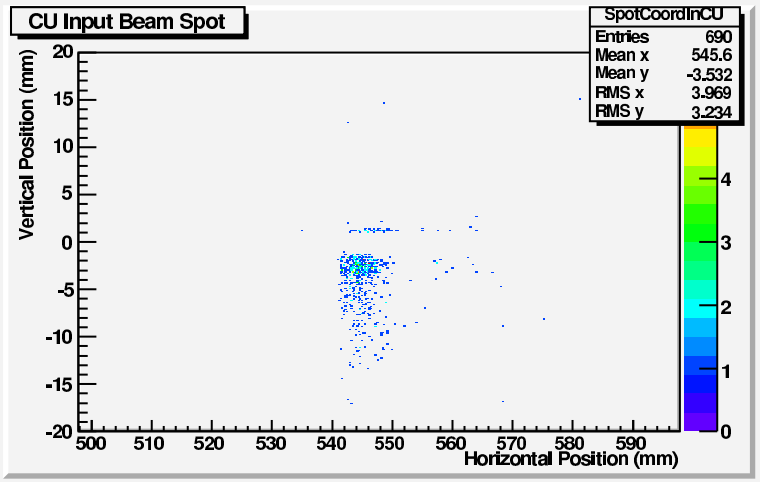

CU Input Beam Spot
SpotAngleInCU
Entries 741
Mean x 0.005917
Mean y 0.008515
RMS x 0.0011
RMS y 0.0009409
Vertical Angle (rad)
Horizontal Angle (rad)

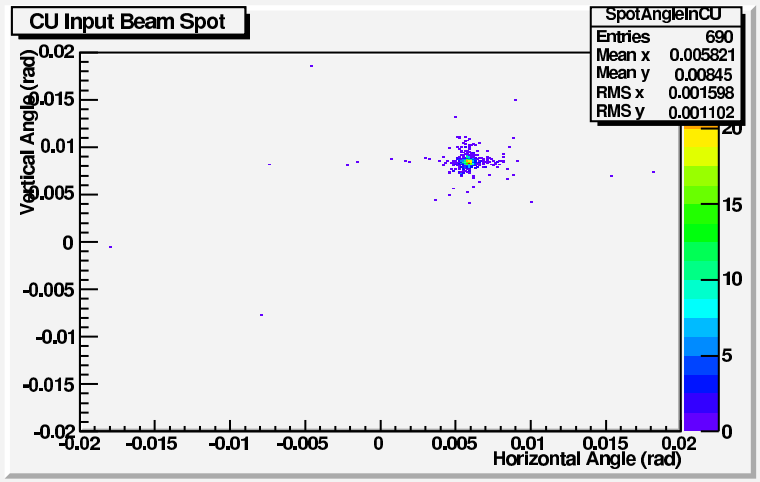

CU Input Horizontal coordinate
HorCoordInCU
Entries 690
Mean 545.8
RMS 4.88
Position (mm)

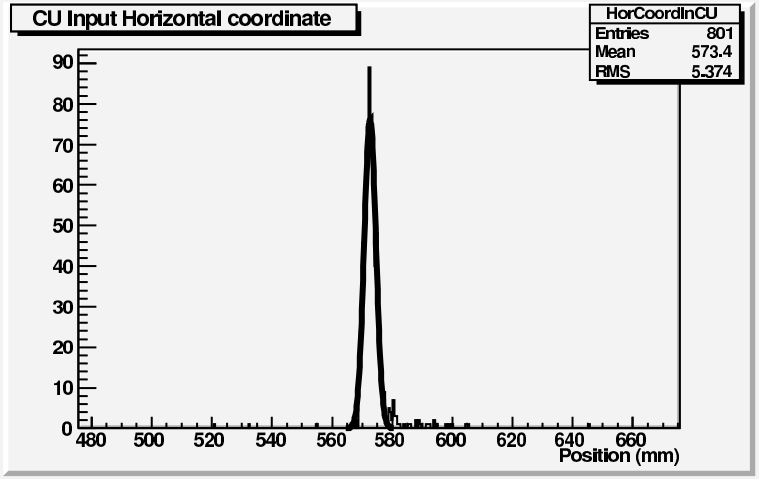

CU Input vertical coordinate
VertCoordInCU
Entries 690
Mean -3.694
RMS 4.389
Position (mm)

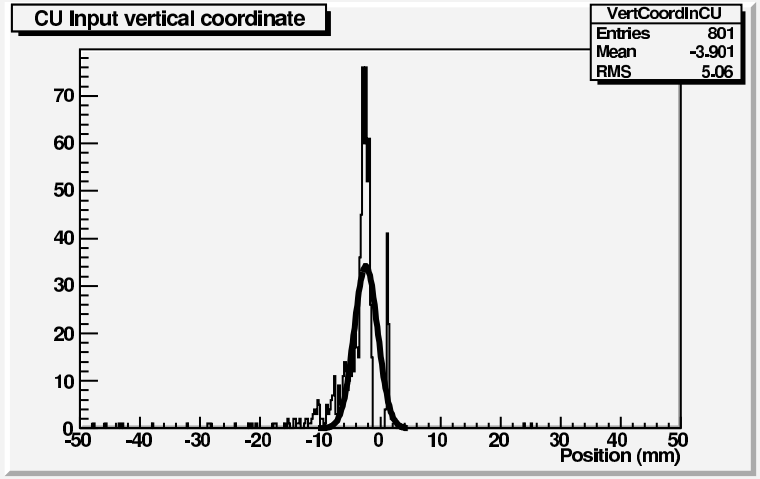

CU Input horizontal angle
HorAngleInCU
Entries 690
Mean 0.008364
RMS 0.001684
Angle (rad)

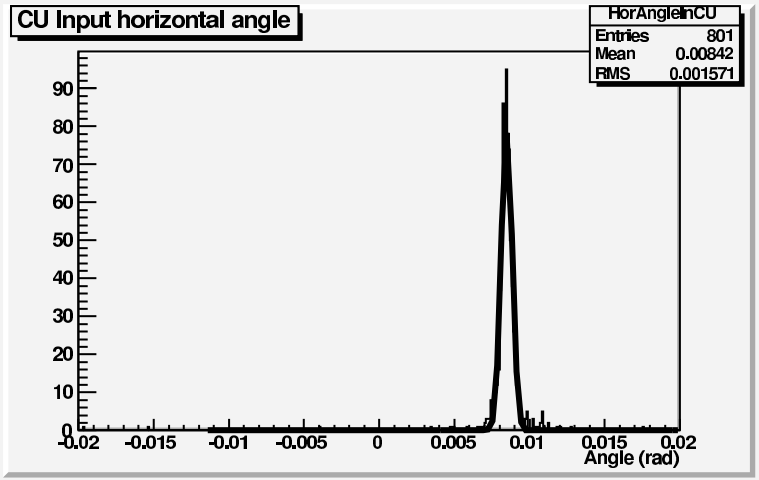

CU Input vertical angle
VertAngleInCU
Entries 690
Mean 0.005856
RMS 0.001312
Angle (rad)

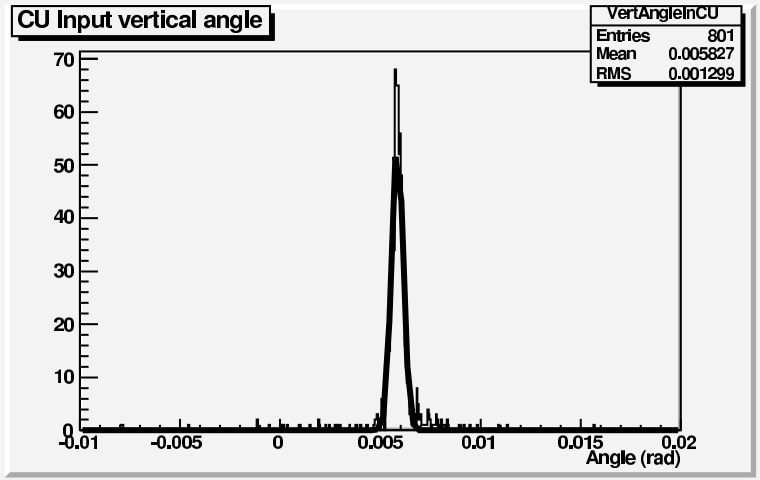

CU Input Beam Spot
SpotCoordInCU
Entries 690
Mean x 545.6
Mean y -3.532
RMS x 3.969
RMS y 3.234
Vertical Position (mm)
Horizontal Position (mm)

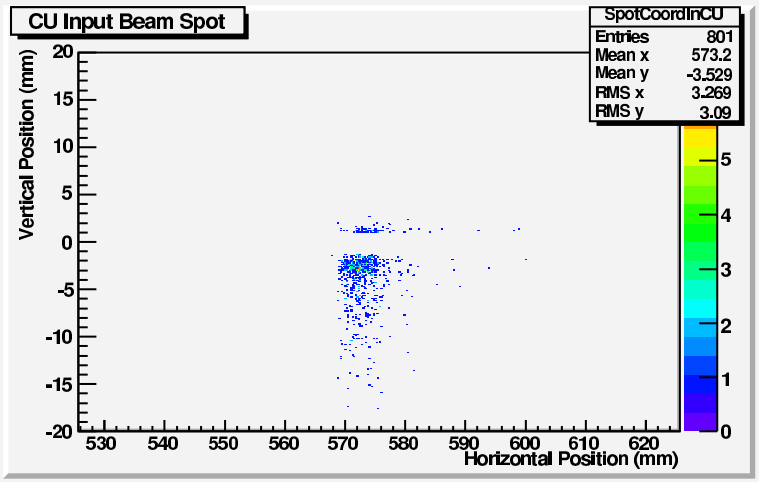

CU Input Beam Spot
SpotAngleInCU
Entries 690
Mean x 0.005821
Mean y 0.00845
RMS x 0.001598
RMS y 0.001102
Vertical Angle (rad)
Horizontal Angle (rad)

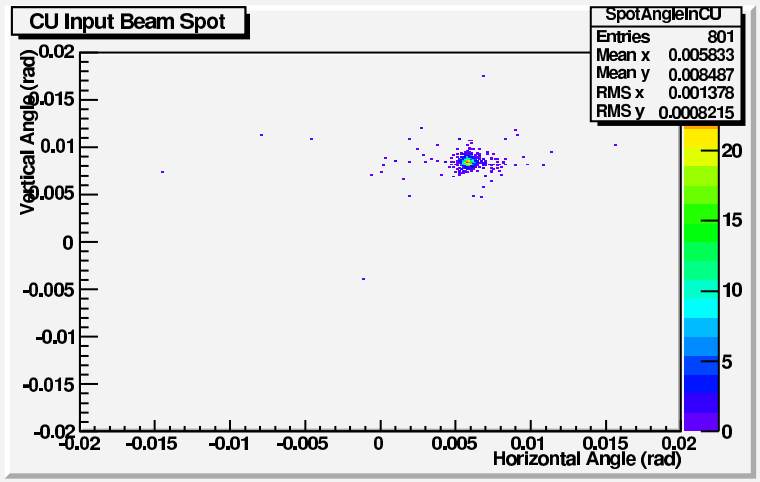

CU Input Horizontal coordinate
HorCoordInCU
Entries 801
Mean 573.4
RMS 5.374
Position (mm)

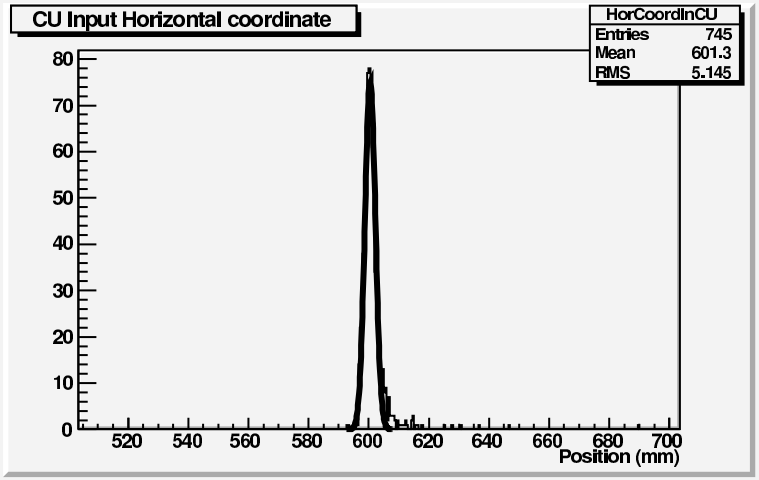

CU Input vertical coordinate
VertCoordInCU
Entries 801
Mean -3.901
RMS 5.06
Position (mm)

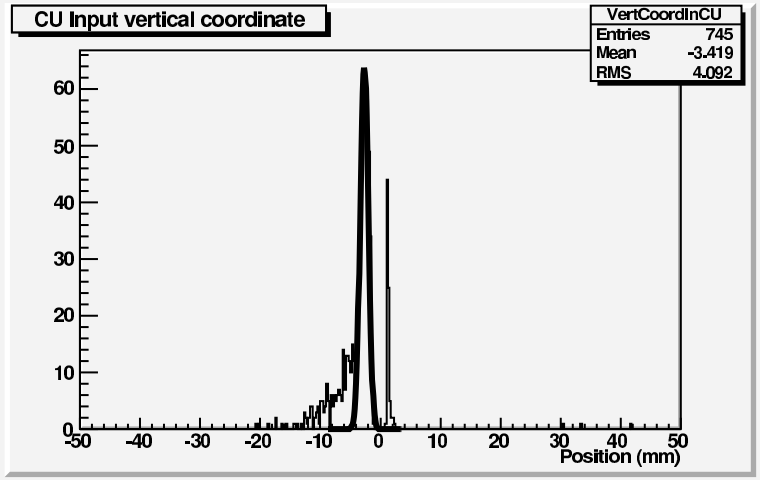

CU Input horizontal angle
HorAngleInCU
Entries 801
Mean 0.00842
RMS 0.001571
Angle (rad)

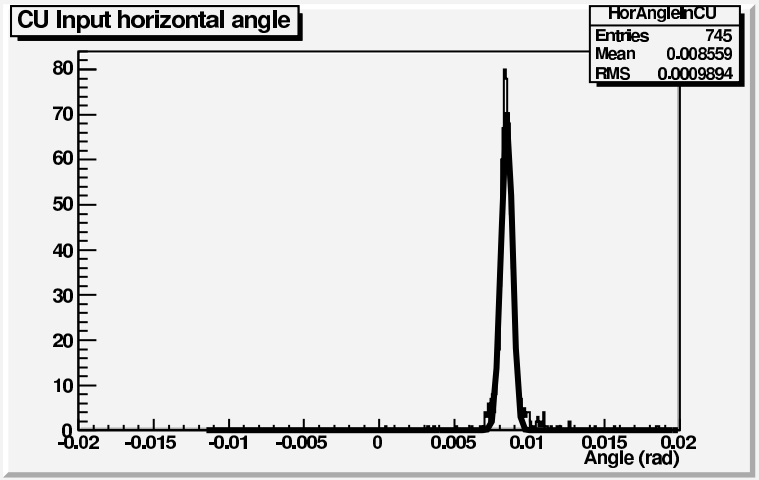

CU Input vertical angle
VertAngleInCU
Entries 801
Mean 0.005827
RMS 0.001299
Angle (rad)

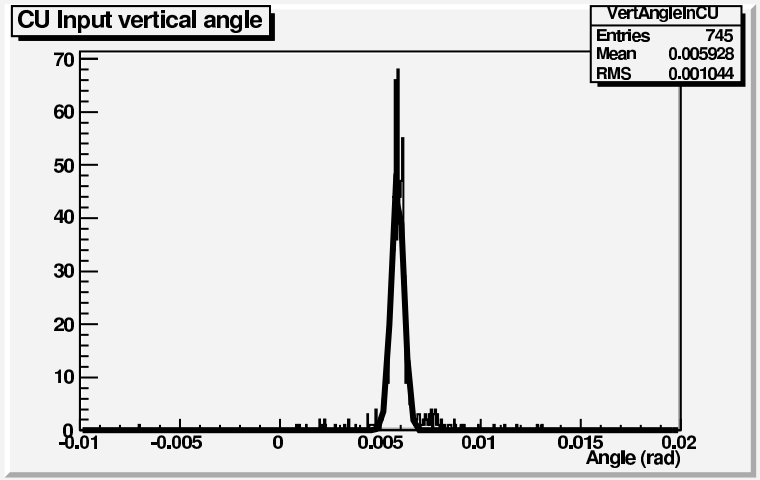

CU Input Beam Spot
SpotCoordInCU
Entries 801
Mean x 573.2
Mean y -3.529
RMS x 3.269
RMS y 3.09
Vertical Position (mm)
Horizontal Position (mm)

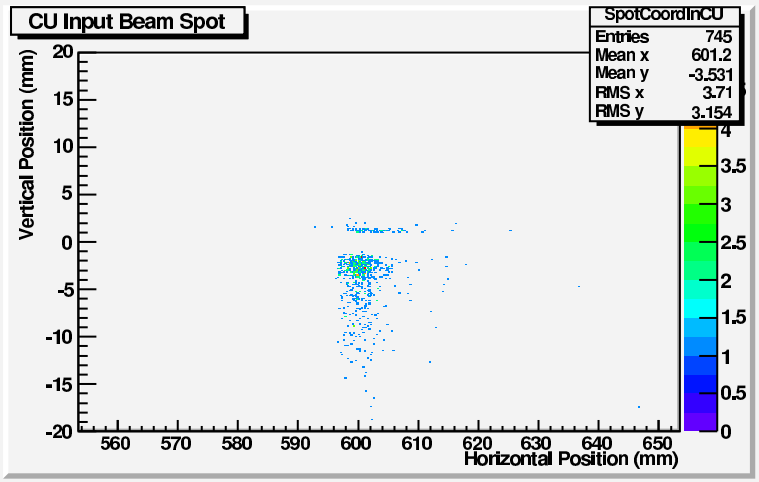

CU Input Beam Spot
SpotAngleInCU
Entries 801
Mean x 0.005833
Mean y 0.008487
RMS x 0.001378
RMS y 0.0008215
Vertical Angle (rad)
Horizontal Angle (rad)

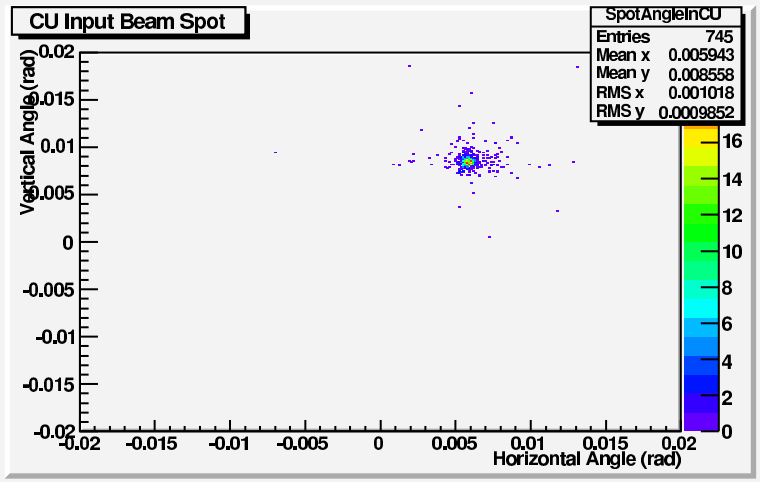

CU Input Horizontal coordinate
HorCoordInCU
Entries 745
Mean 601.3
RMS 5.145
Position (mm)

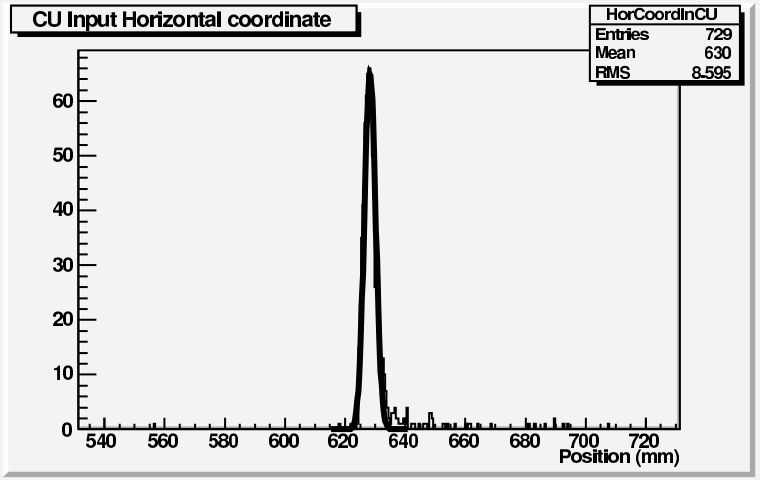

CU Input vertical coordinate
VertCoordInCU
Entries 745
Mean -3.419
RMS 4.092
Position (mm)

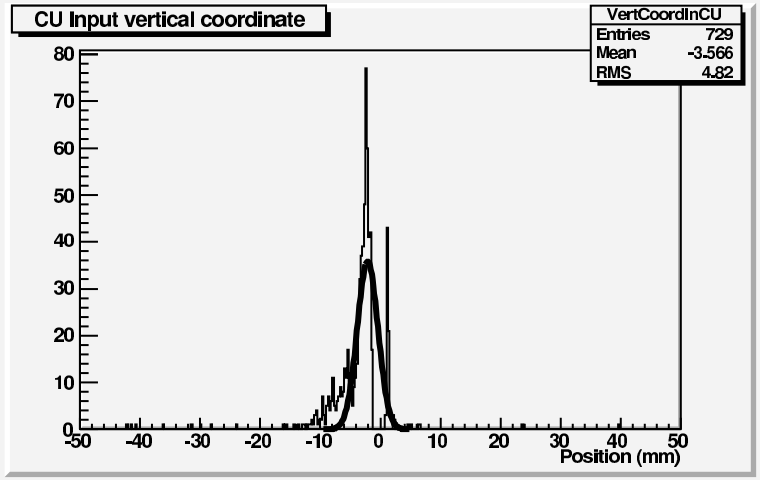

CU Input horizontal angle
HorAngleInCU
Entries 745
Mean 0.008559
RMS 0.0009894
Angle (rad)

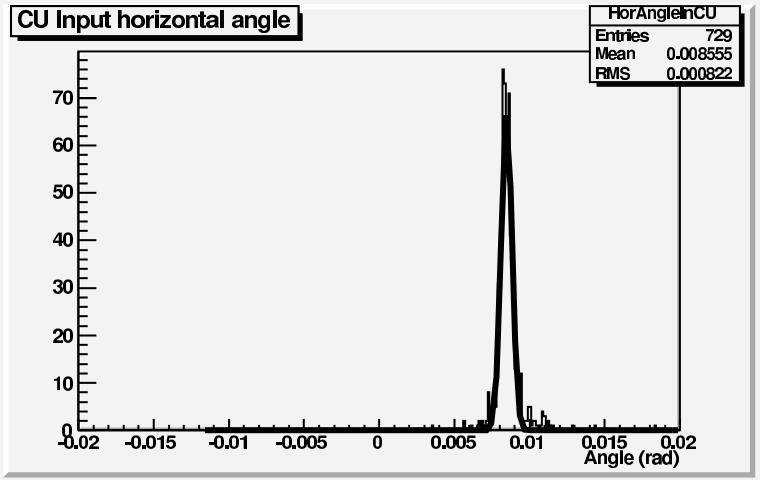

CU Input vertical angle
VertAngleInCU
Entries 745
Mean 0.005928
RMS 0.001044
Angle (rad)

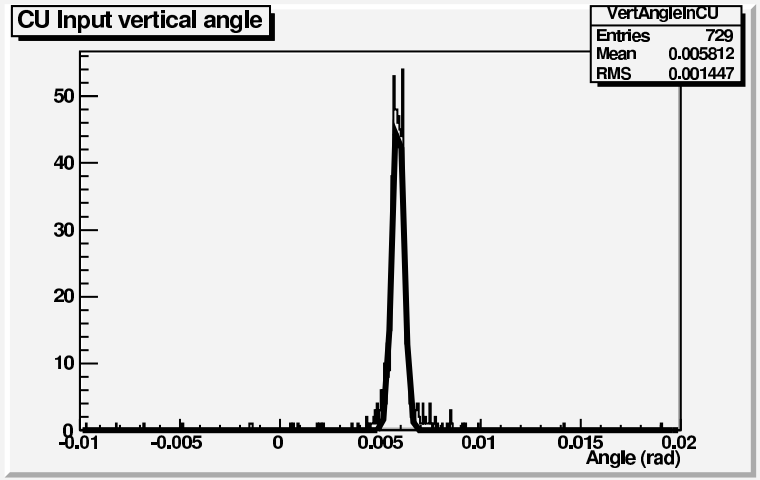

CU Input Beam Spot
SpotCoordInCU
Entries 745
Mean x 601.2
Mean y -3.531
RMS x 3.71
RMS y 3.154
Vertical Position (mm)
Horizontal Position (mm)

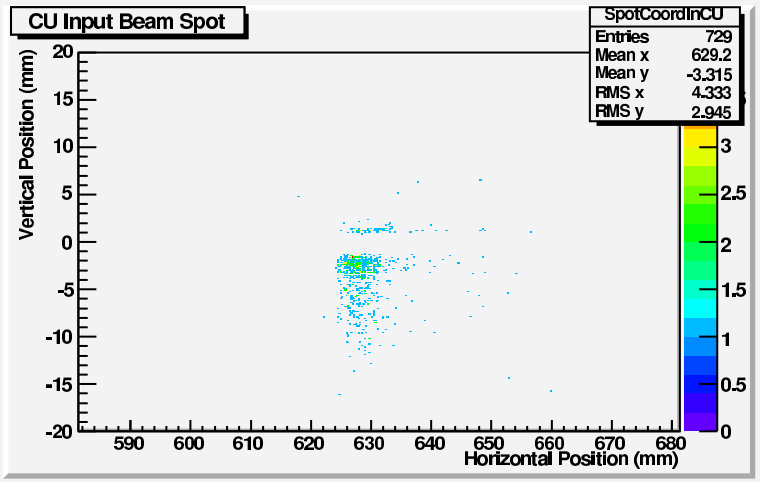

CU Input Beam Spot
SpotAngleInCU
Entries 745
Mean x 0.005943
Mean y 0.008558
RMS x 0.001018
RMS y 0.0009852
Vertical Angle (rad)
Horizontal Angle (rad)

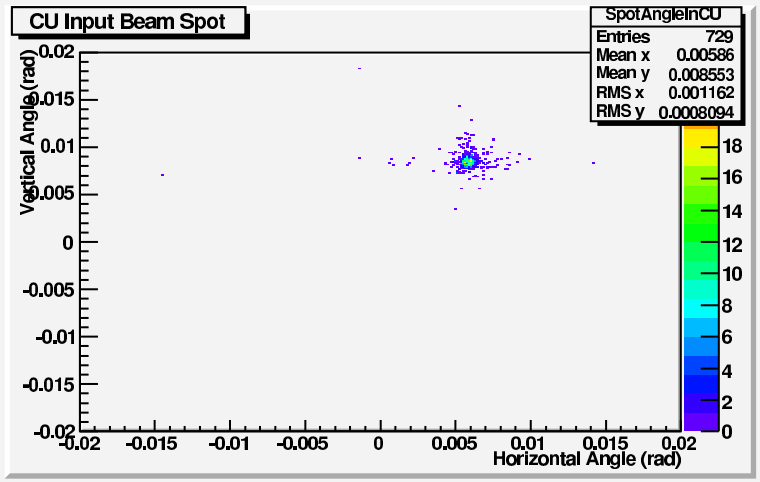

CU Input Horizontal coordinate
HorCoordInCU
Entries 729
Mean 630
RMS 8.595
Position (mm)

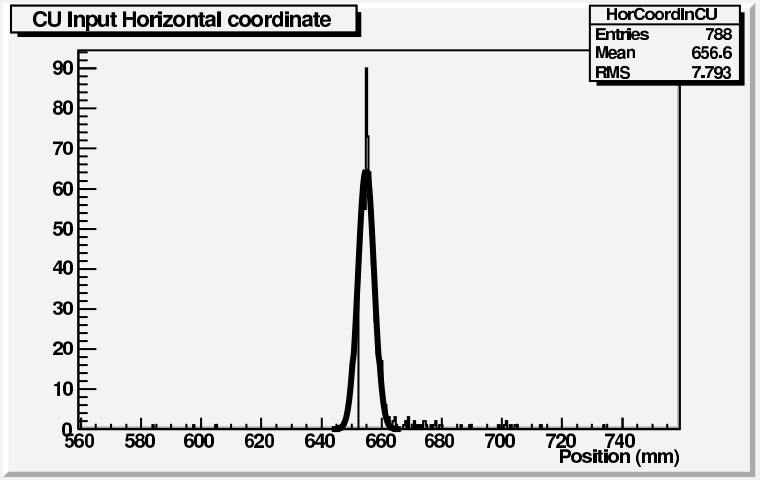

CU Input vertical coordinate
VertCoordInCU
Entries 729
Mean -3.566
RMS 4.82
Position (mm)

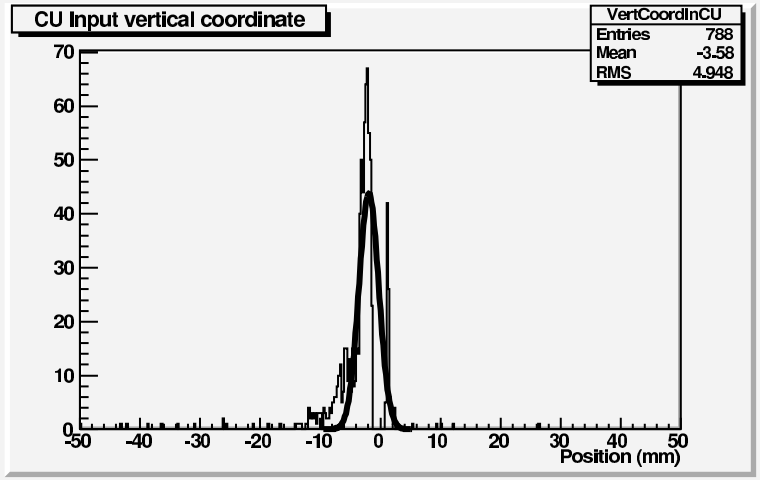

CU Input horizontal angle
HorAngleInCU
Entries 729
Mean 0.008555
RMS 0.000822
Angle (rad)

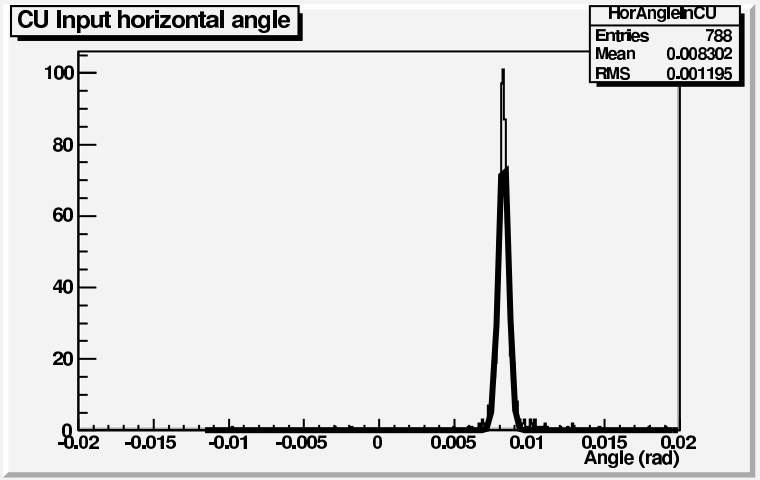

CU Input vertical angle
VertAngleInCU
Entries 729
Mean 0.005812
RMS 0.001447
Angle (rad)

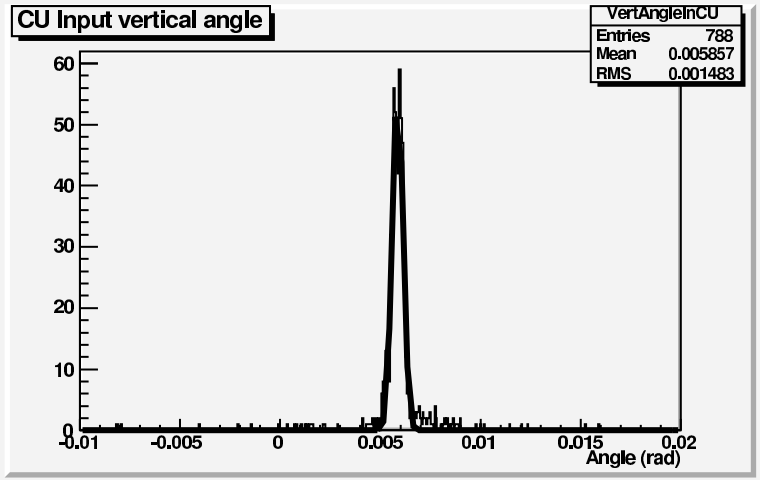

CU Input Beam Spot
SpotCoordInCU
Entries 729
Mean x 629.2
Mean y -3.315
RMS x 4.333
RMS y 2.945
Vertical Position (mm)
Horizontal Position (mm)

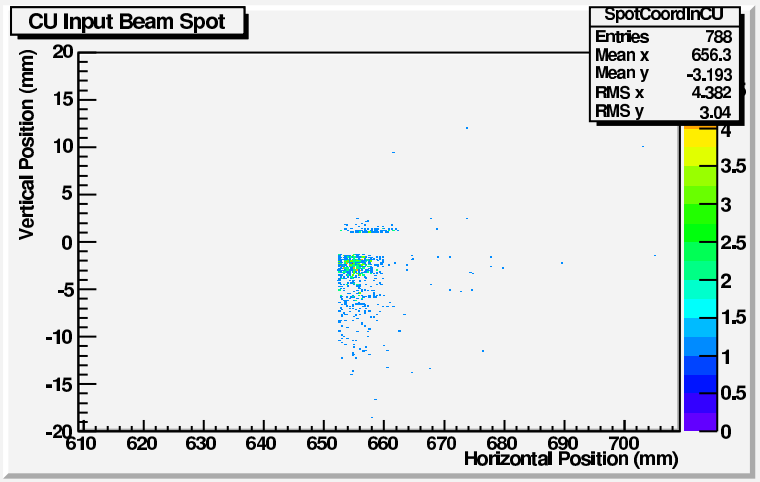

CU Input Beam Spot
SpotAngleInCU
Entries 729
Mean x 0.00586
Mean y 0.008553
RMS x 0.001162
RMS y 0.0008094
Vertical Angle (rad)
Horizontal Angle (rad)

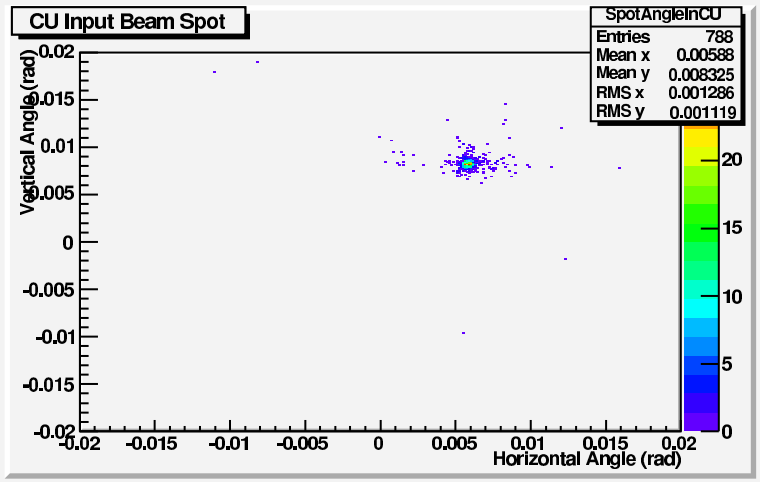

CU Input Horizontal coordinate
HorCoordInCU
Entries 788
Mean 656.6
RMS 7.793
Position (mm)

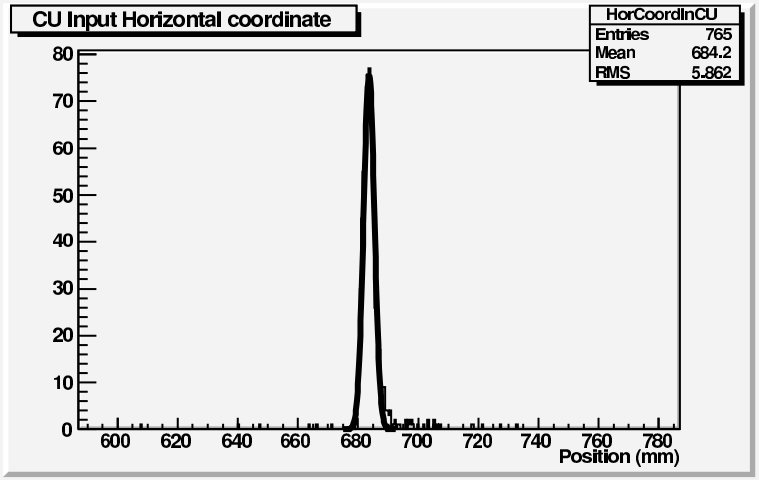

CU Input vertical coordinate
VertCoordInCU
Entries 788
Mean -3.58
RMS 4.948
Position (mm)

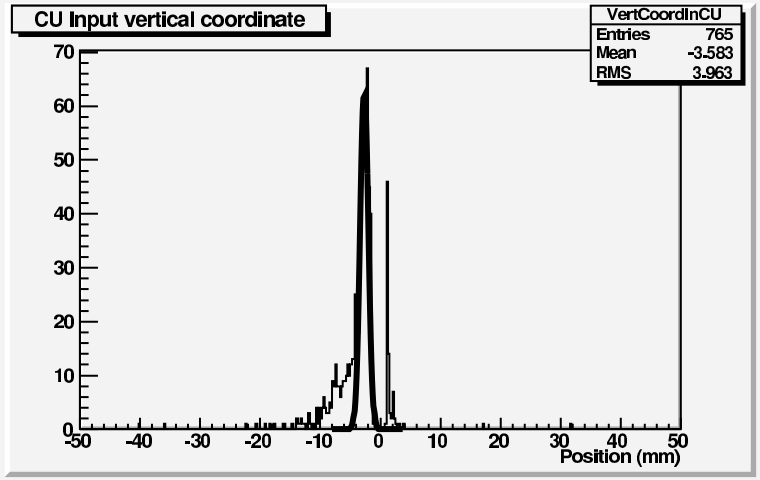

CU Input horizontal angle
HorAngleInCU
Entries 788
Mean 0.008302
RMS 0.001195
Angle (rad)

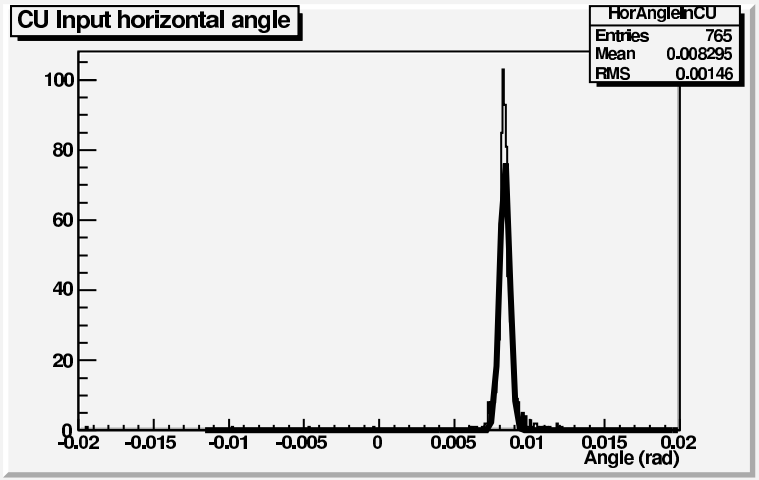

CU Input vertical angle
VertAngleInCU
Entries 788
Mean 0.005857
RMS 0.001483
Angle (rad)

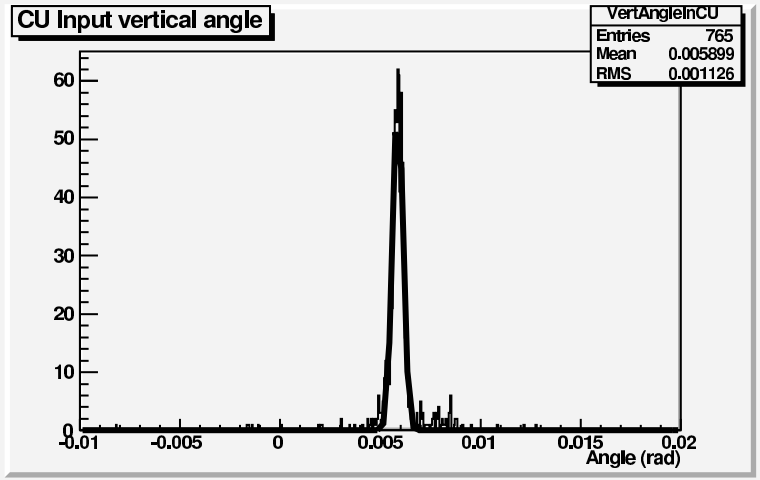

CU Input Beam Spot
SpotCoordInCU
Entries 788
Mean x 656.3
Mean y -3.193
RMS x 4.382
RMS y 3.04
Vertical Position (mm)
Horizontal Position (mm)

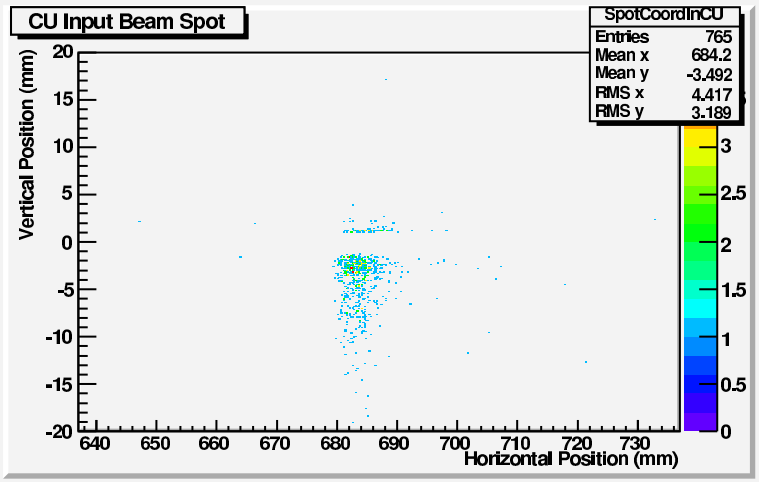

CU Input Beam Spot
SpotAngleInCU
Entries 788
Mean x 0.00588
Mean y 0.008325
RMS x 0.001286
RMS y 0.001119
Vertical Angle (rad)
Horizontal Angle (rad)

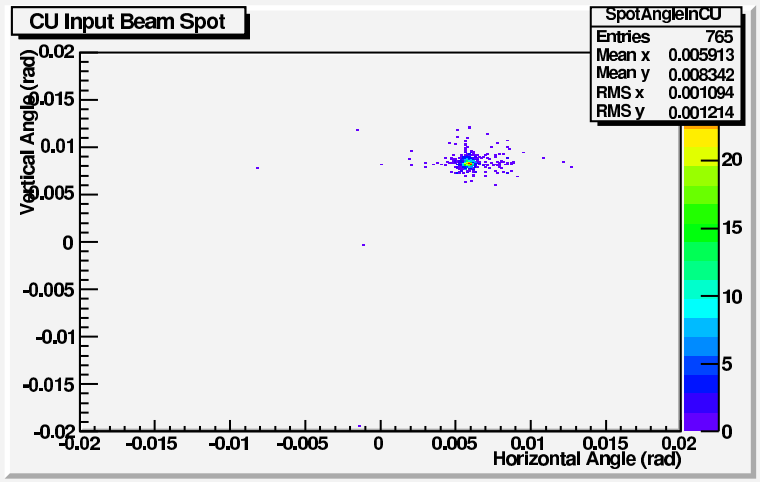

CU Input Horizontal coordinate
HorCoordInCU
Entries 765
Mean 684.2
RMS 5.862
Position (mm)

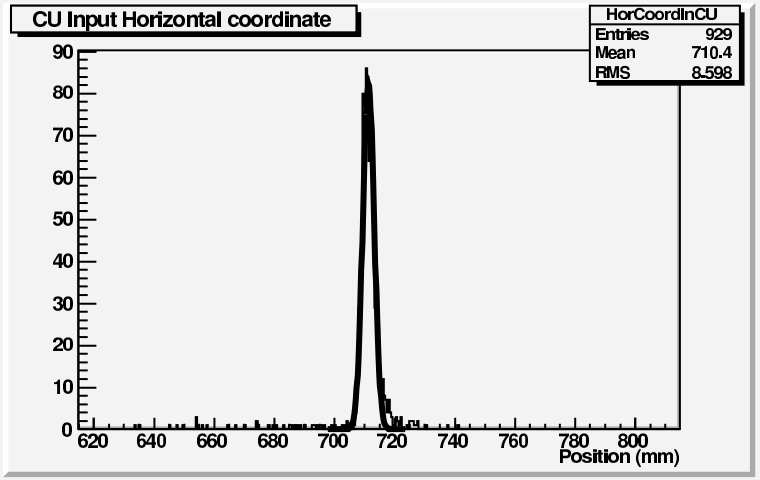

CU Input vertical coordinate
VertCoordInCU
Entries 765
Mean -3.583
RMS 3.963
Position (mm)

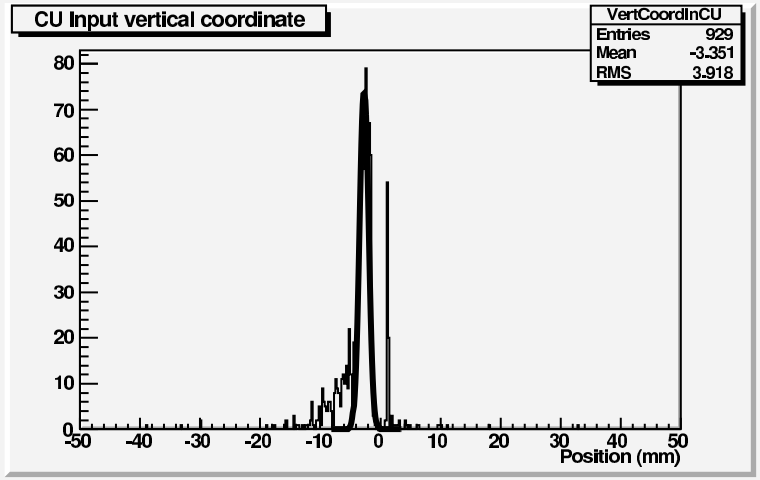

CU Input horizontal angle
HorAngleInCU
Entries 765
Mean 0.008295
RMS 0.00146
Angle (rad)

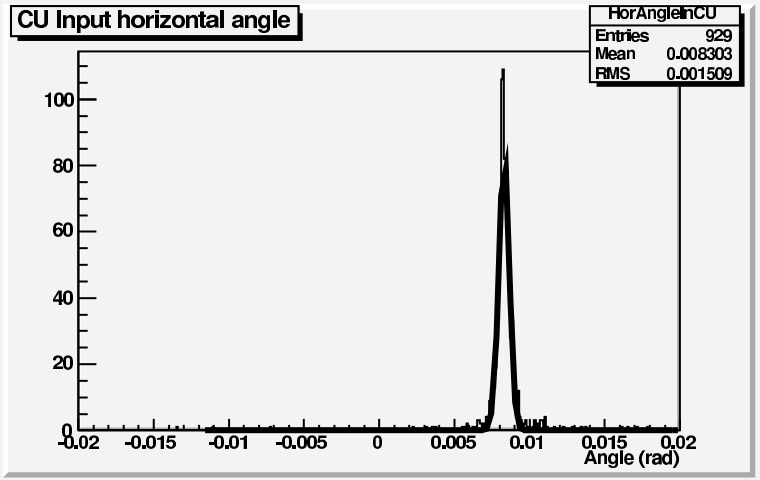

CU Input vertical angle
VertAngleInCU
Entries 765
Mean 0.005899
RMS 0.001126
Angle (rad)

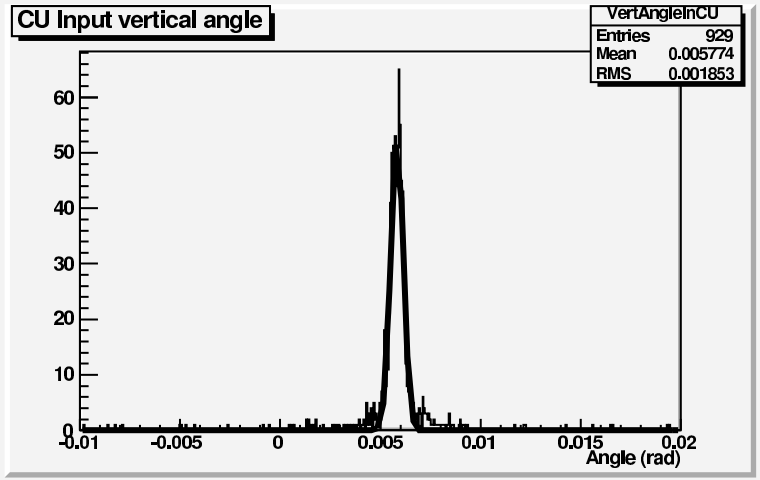

CU Input Beam Spot
SpotCoordInCU
Entries 765
Mean x 684.2
Mean y -3.492
RMS x 4.417
RMS y 3.189
Vertical Position (mm)
Horizontal Position (mm)

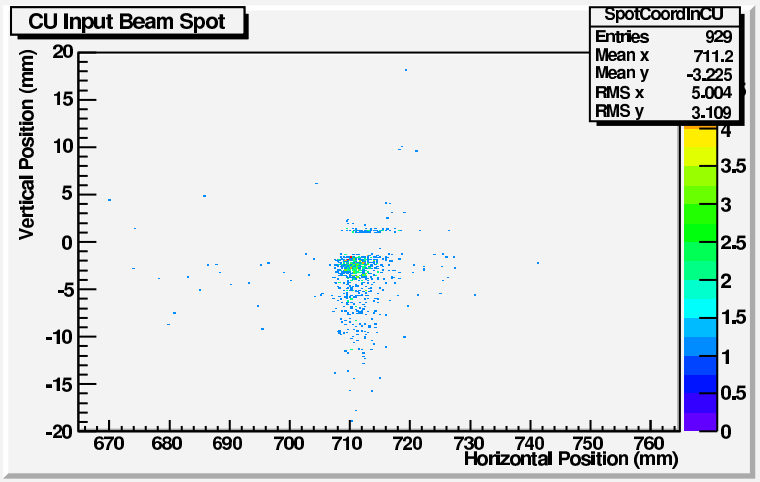

CU Input Beam Spot
SpotAngleInCU
Entries 765
Mean x 0.005913
Mean y 0.008342
RMS x 0.001094
RMS y 0.001214
Vertical Angle (rad)
Horizontal Angle (rad)

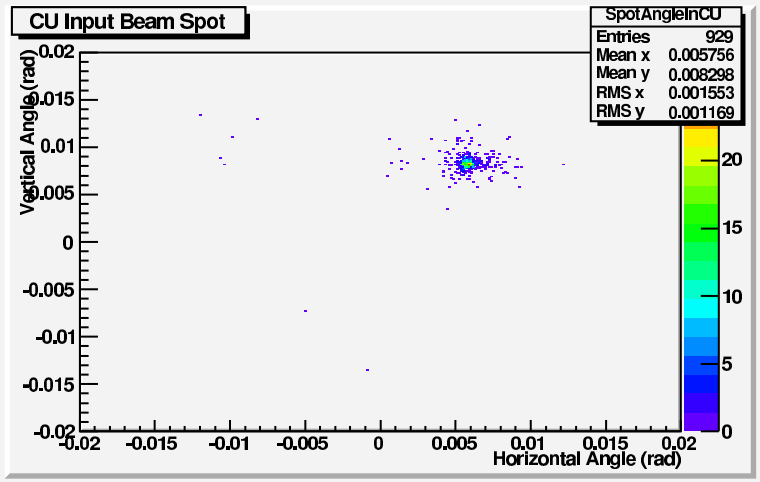

CU Input Horizontal coordinate
HorCoordInCU
Entries 929
Mean 710.4
RMS 8.598
Position (mm)

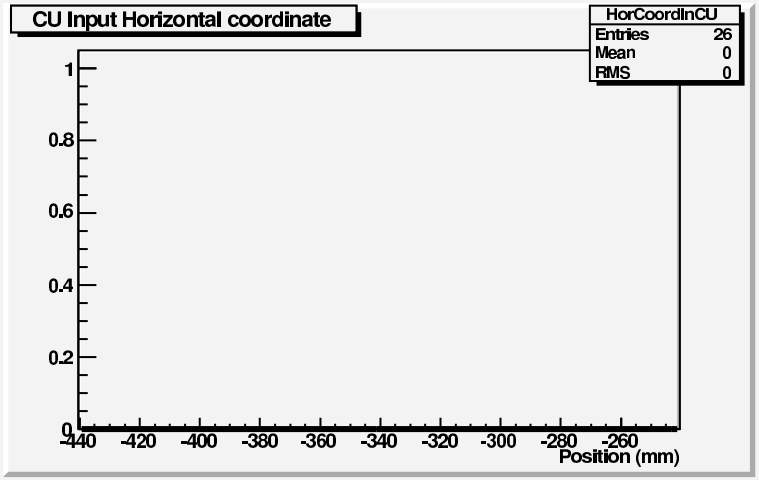

CU Input vertical coordinate
VertCoordInCU
Entries 929
Mean -3.351
RMS 3.918
Position (mm)

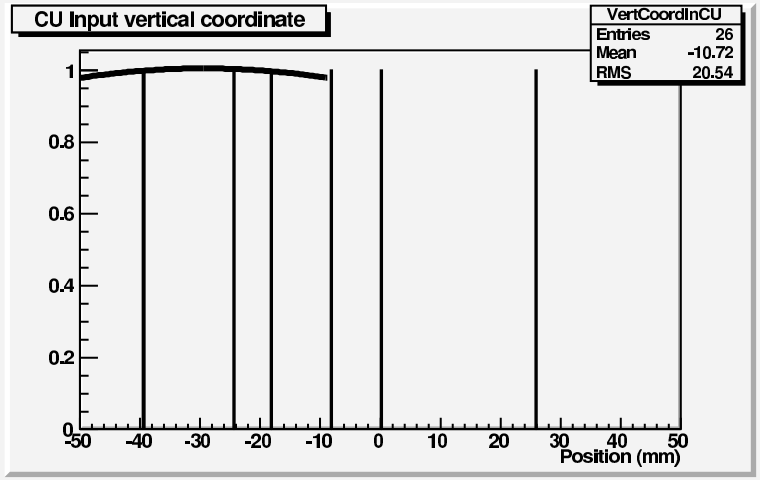

CU Input horizontal angle
HorAngleInCU
Entries 929
Mean 0.008303
RMS 0.001509
Angle (rad)

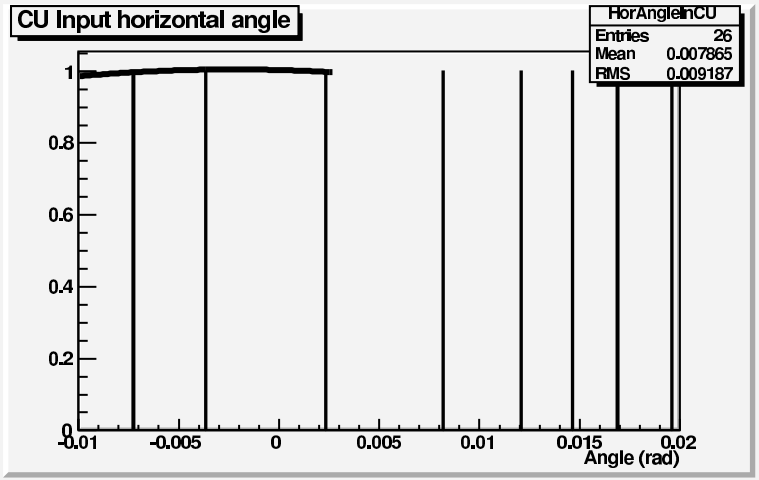

CU Input vertical angle
VertAngleInCU
Entries 929
Mean 0.005774
RMS 0.001853
Angle (rad)

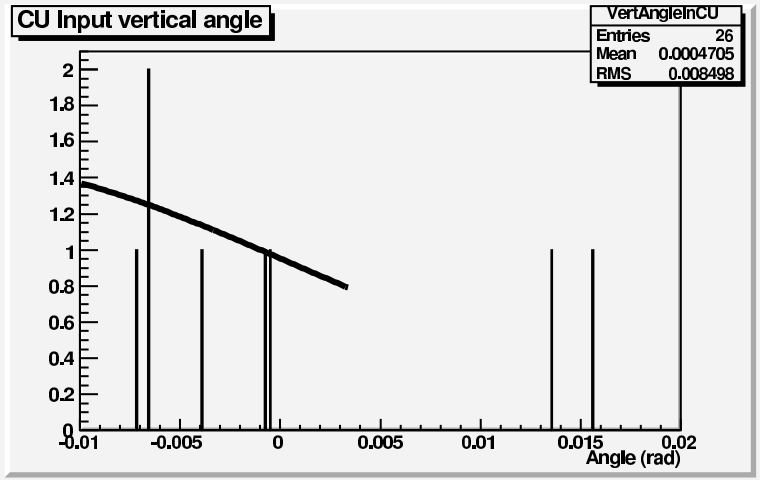

CU Input Beam Spot
SpotCoordInCU
Entries 929
Mean x 711.2
Mean y -3.225
RMS x 5.004
RMS y 3.109
Vertical Position (mm)
Horizontal Position (mm)

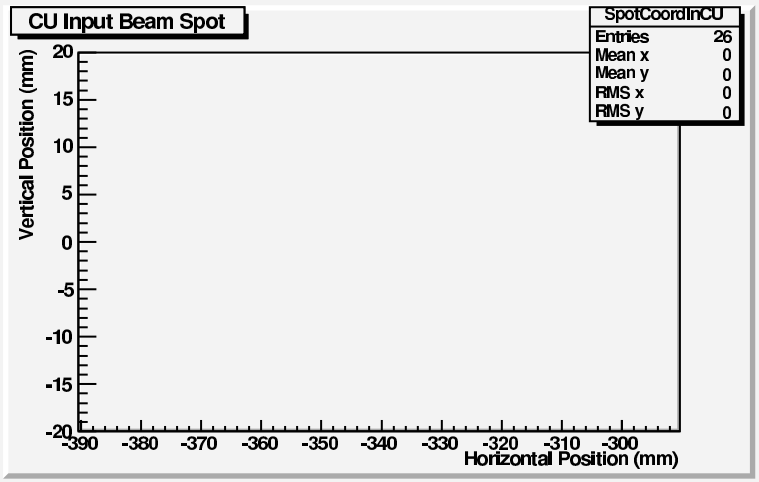

CU Input Beam Spot
SpotAngleInCU
Entries 929
Mean x 0.005756
Mean y 0.008298
RMS x 0.001553
RMS y 0.001169
Vertical Angle (rad)
Horizontal Angle (rad)

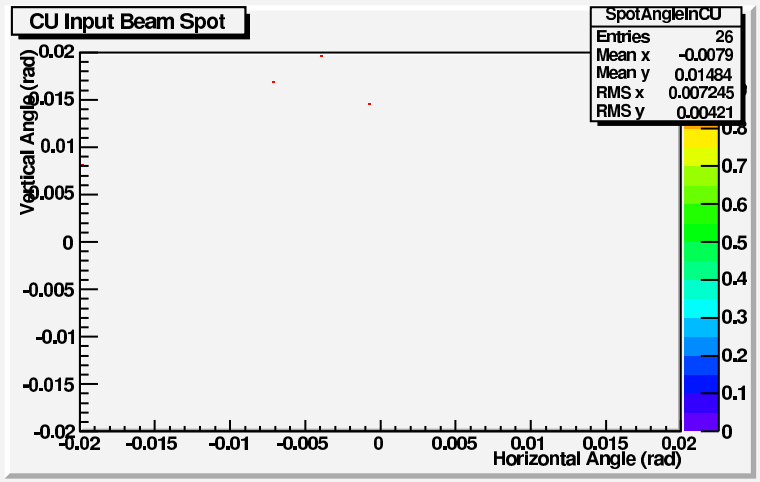

CU Input Horizontal coordinate
HorCoordInCU
Entries 26
Mean 0
RMS 0
Position (mm)

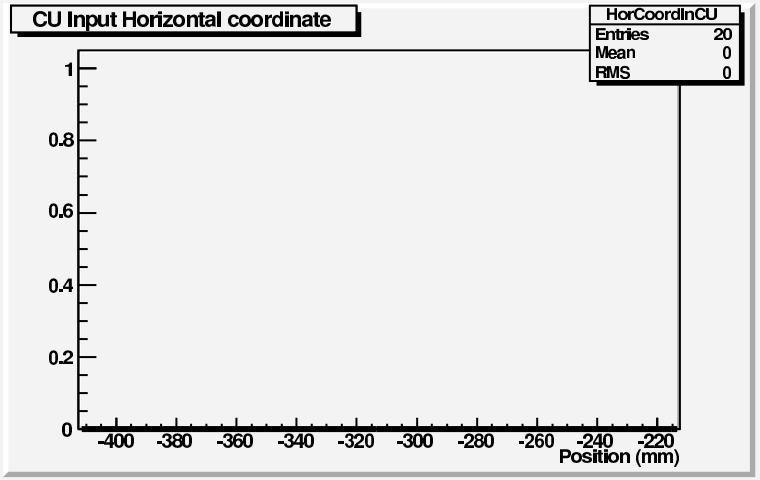

CU Input vertical coordinate
VertCoordInCU
Entries 26
Mean -10.72
RMS 20.54
Position (mm)

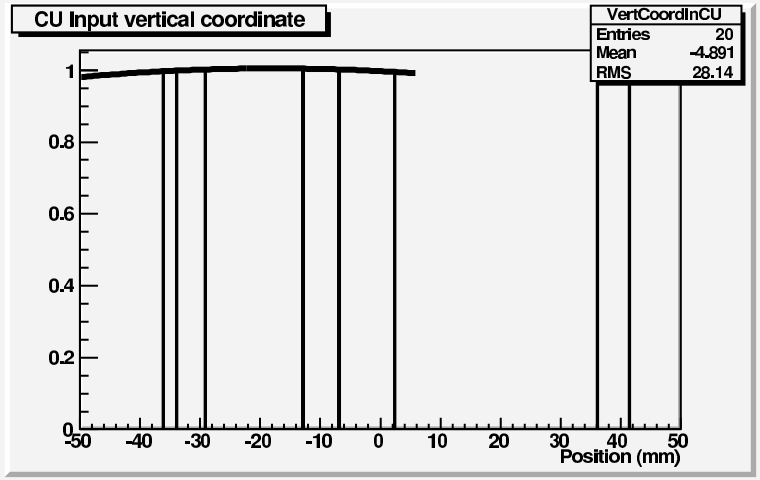

CU Input horizontal angle
HorAngleInCU
Entries 26
Mean 0.007865
RMS 0.009187
Angle (rad)

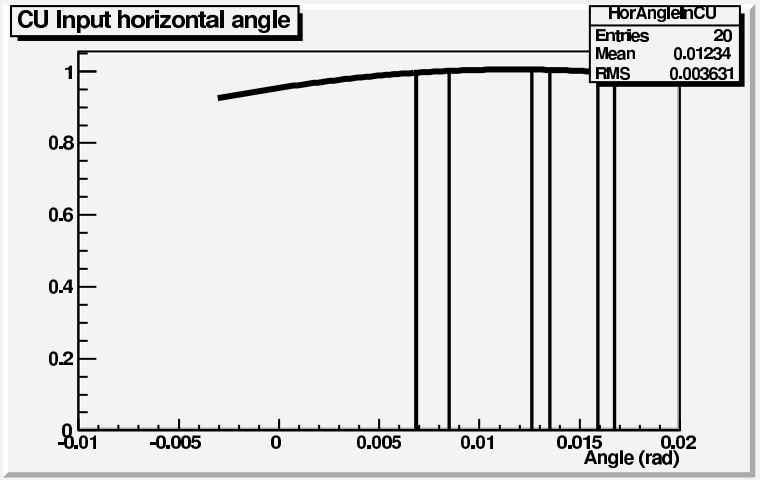

CU Input vertical angle
VertAngleInCU
Entries 26
Mean 0.0004705
RMS 0.008498
Angle (rad)

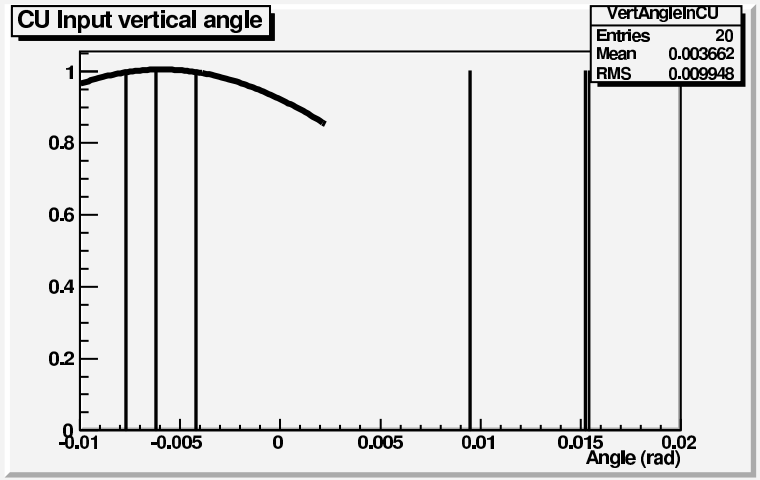

CU Input Beam Spot
SpotCoordInCU
Entries 26
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Position (mm)
Horizontal Position (mm)

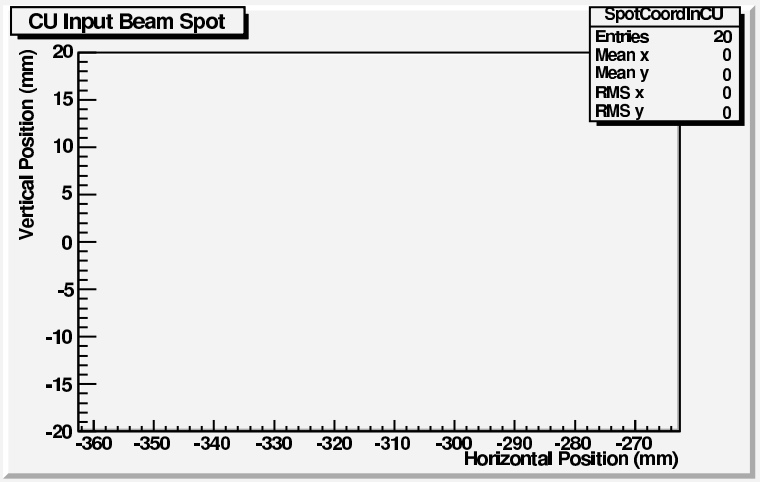

CU Input Beam Spot
SpotAngleInCU
Entries 26
Mean x -0.0079
Mean y 0.01484
RMS x 0.007245
RMS y 0.00421
Vertical Angle (rad)
Horizontal Angle (rad)

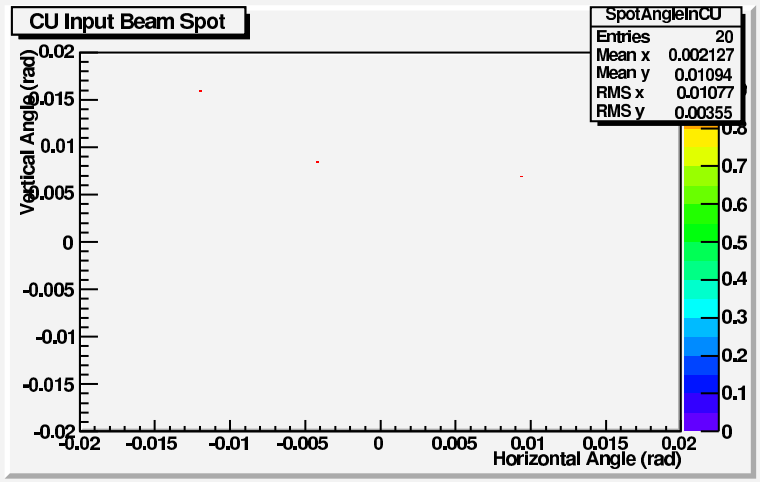

CU Input Horizontal coordinate
HorCoordInCU
Entries 20
Mean 0
RMS 0
Position (mm)

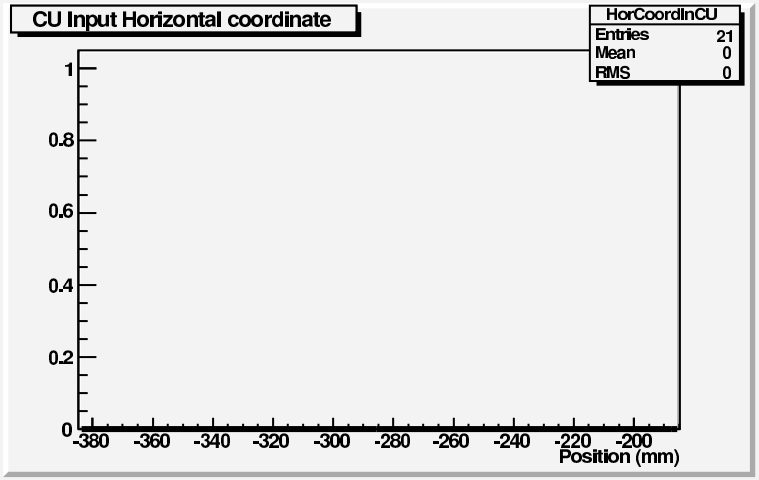

CU Input vertical coordinate
VertCoordInCU
Entries 20
Mean -4.891
RMS 28.14
Position (mm)

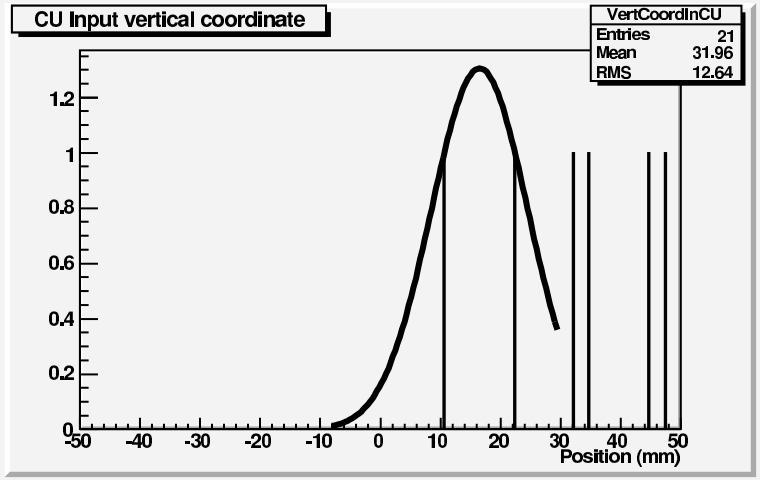

CU Input horizontal angle
HorAngleInCU
Entries 20
Mean 0.01234
RMS 0.003631
Angle (rad)

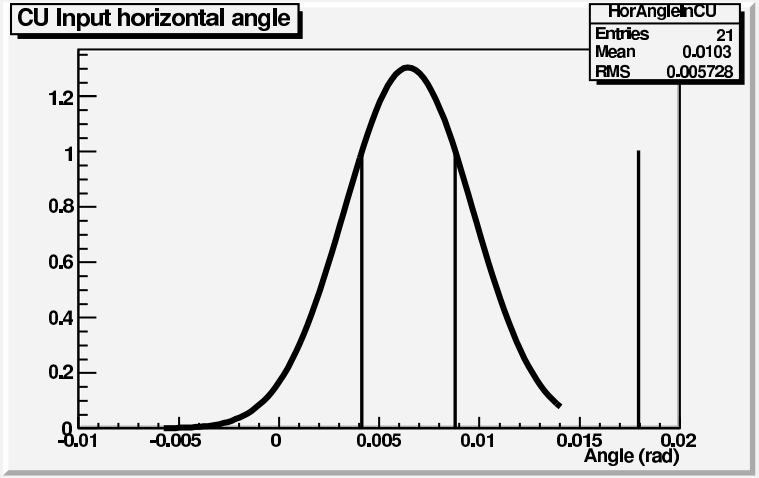

CU Input vertical angle
VertAngleInCU
Entries 20
Mean 0.003662
RMS 0.009948
Angle (rad)

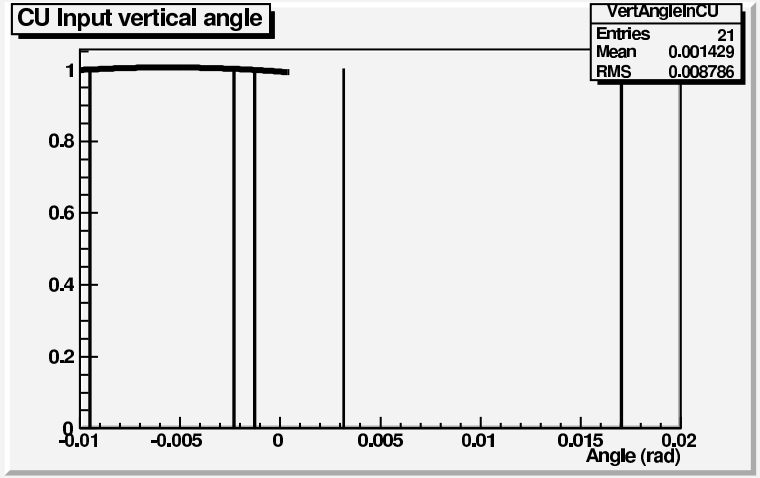

CU Input Beam Spot
SpotCoordInCU
Entries 20
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Position (mm)
Horizontal Position (mm)

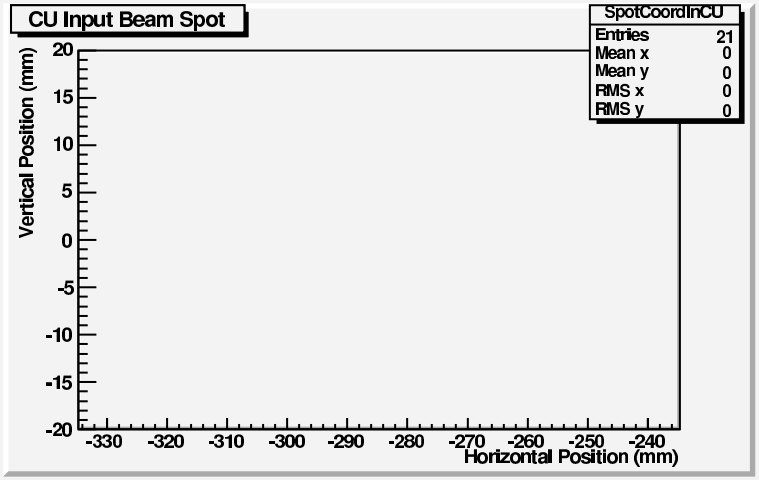

CU Input Beam Spot
SpotAngleInCU
Entries 20
Mean x 0.002127
Mean y 0.01094
RMS x 0.01077
RMS y 0.00355
Vertical Angle (rad)
Horizontal Angle (rad)

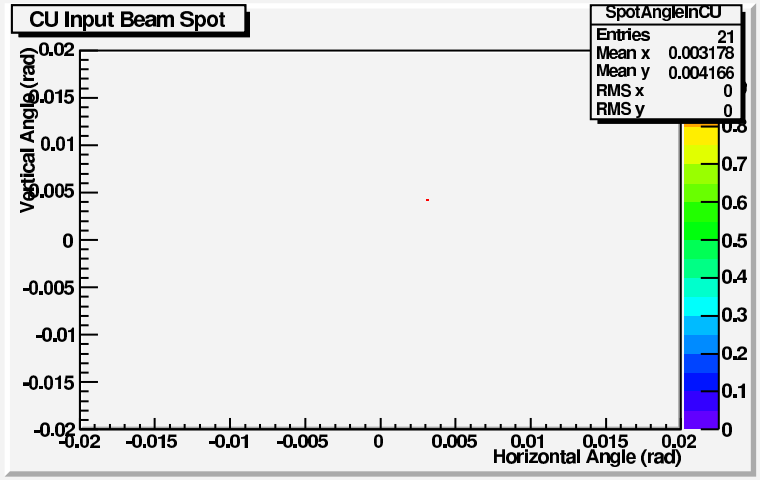

CU Input Horizontal coordinate
HorCoordInCU
Entries 21
Mean 0
RMS 0
Position (mm)

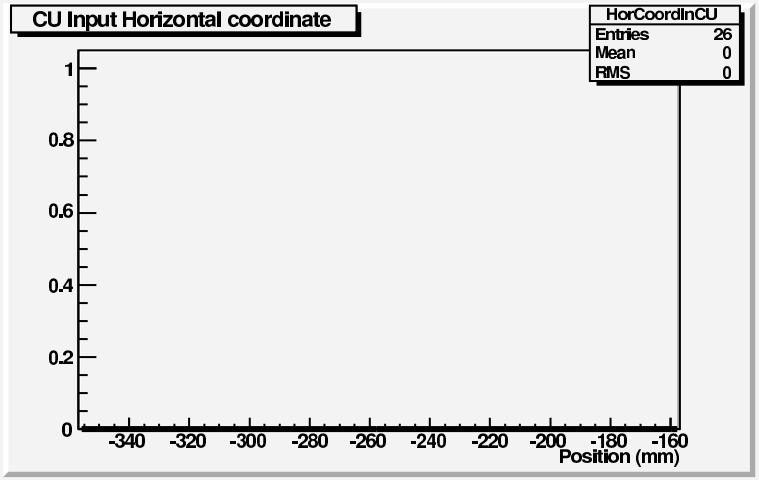

CU Input vertical coordinate
VertCoordInCU
Entries 21
Mean 31.96
RMS 12.64
Position (mm)

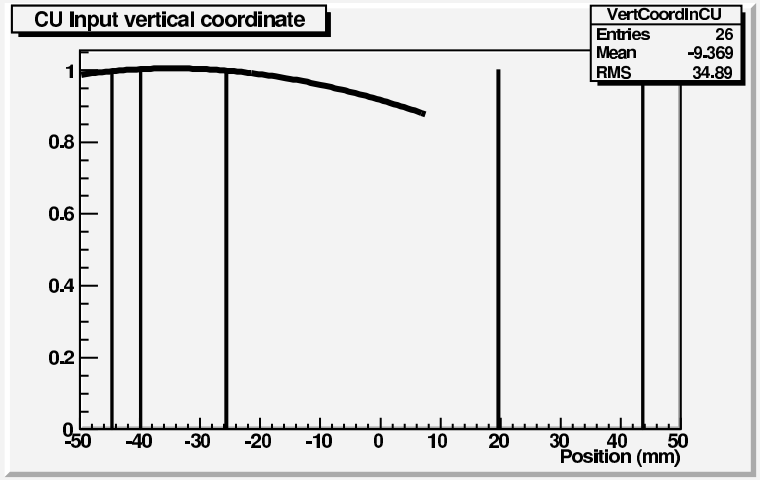

CU Input horizontal angle
HorAngleInCU
Entries 21
Mean 0.0103
RMS 0.005728
Angle (rad)

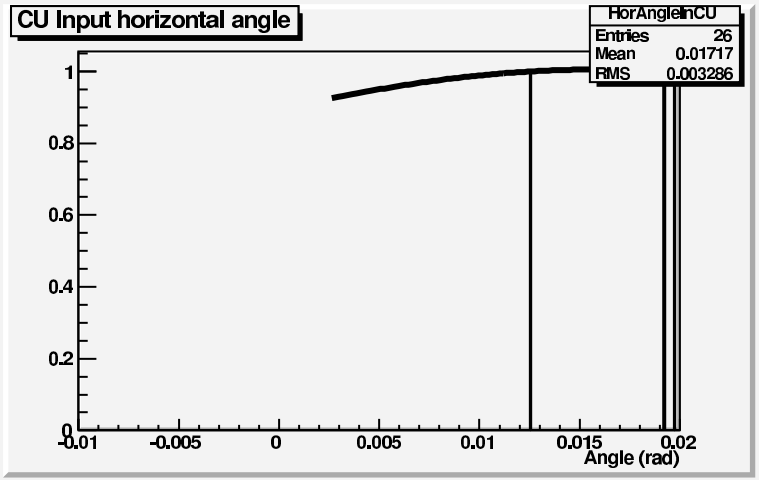

CU Input vertical angle
VertAngleInCU
Entries 21
Mean 0.001429
RMS 0.008786
Angle (rad)

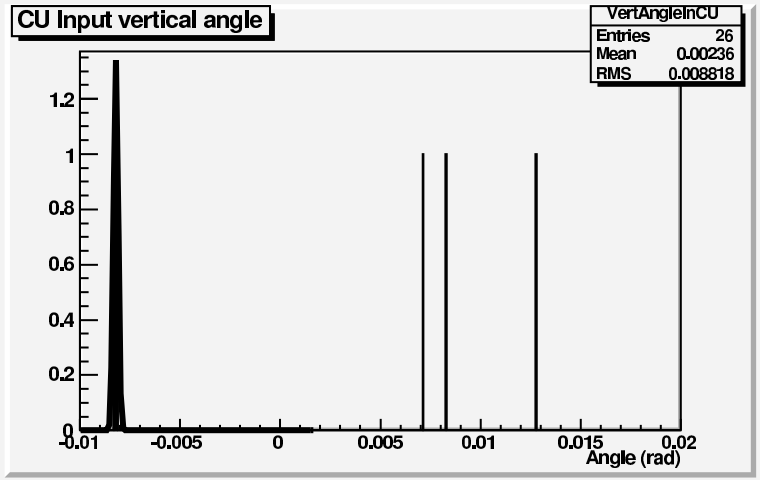

CU Input Beam Spot
SpotCoordInCU
Entries 21
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Position (mm)
Horizontal Position (mm)

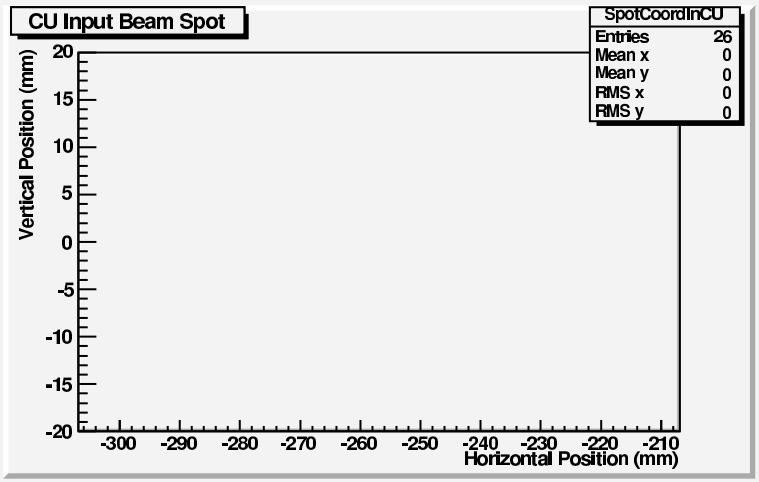

CU Input Beam Spot
SpotAngleInCU
Entries 21
Mean x 0.003178
Mean y 0.004166
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

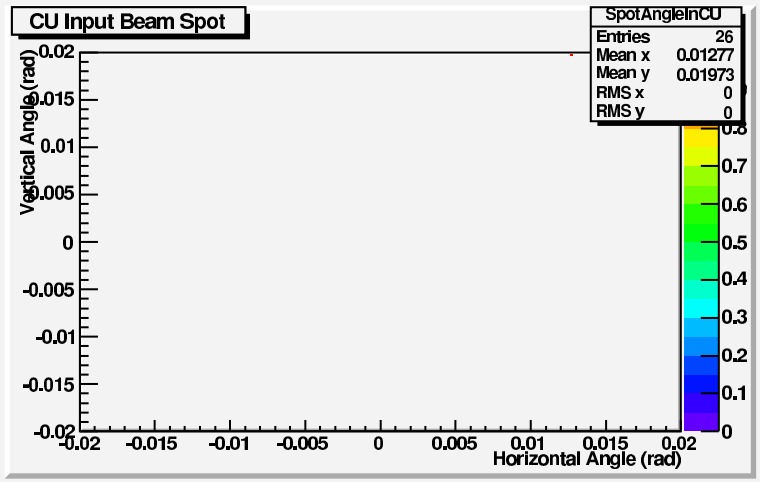

CU Input Horizontal coordinate
HorCoordInCU
Entries 26
Mean 0
RMS 0
Position (mm)

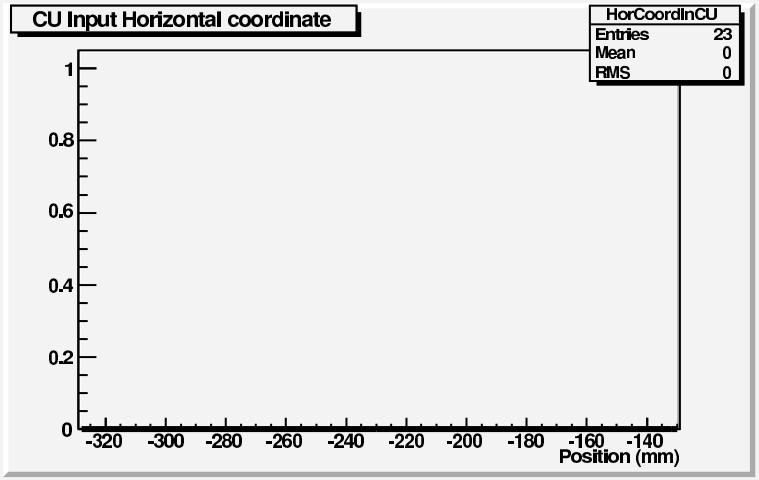

CU Input vertical coordinate
VertCoordInCU
Entries 26
Mean -9.369
RMS 34.89
Position (mm)

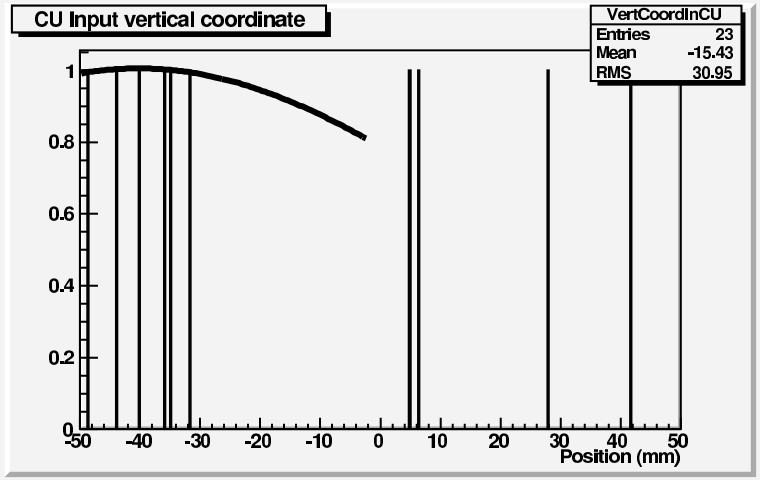

CU Input horizontal angle
HorAngleInCU
Entries 26
Mean 0.01717
RMS 0.003286
Angle (rad)

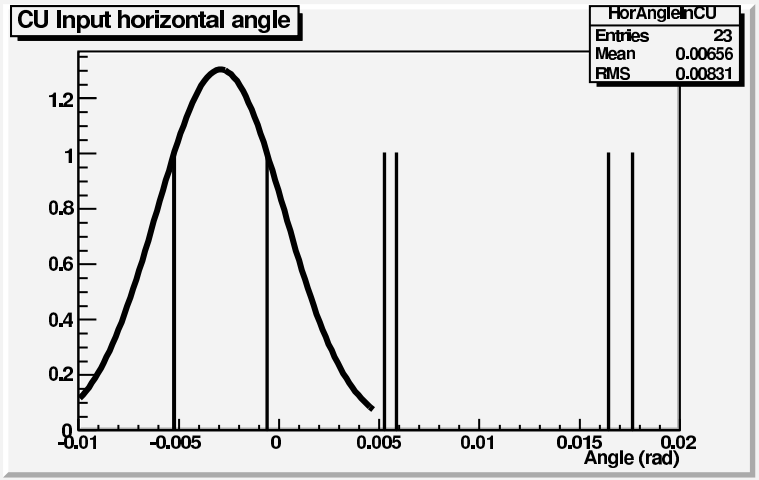

CU Input vertical angle
VertAngleInCU
Entries 26
Mean 0.00236
RMS 0.008818
Angle (rad)

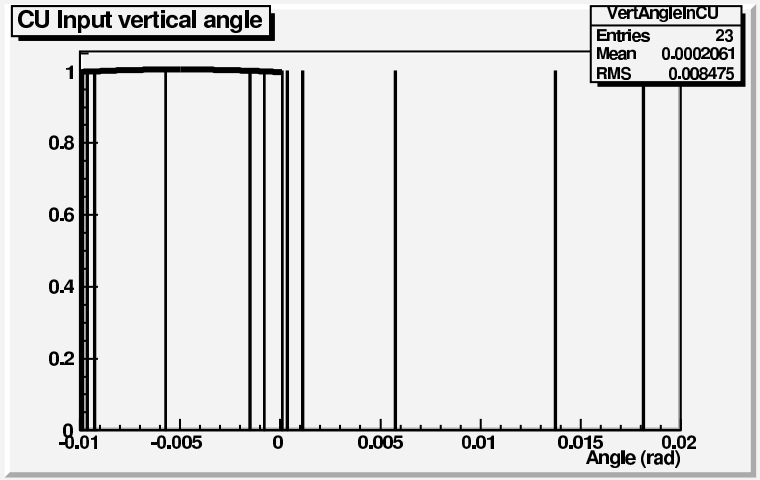

CU Input Beam Spot
SpotCoordInCU
Entries 26
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Position (mm)
Horizontal Position (mm)

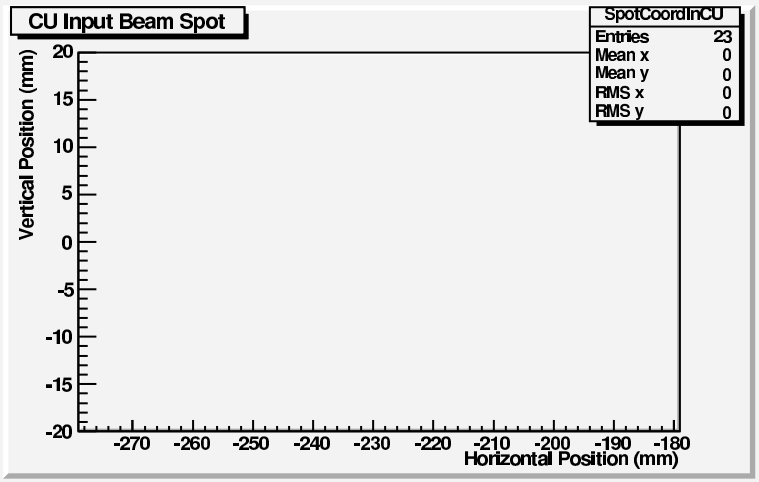

CU Input Beam Spot
SpotAngleInCU
Entries 26
Mean x 0.01277
Mean y 0.01973
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

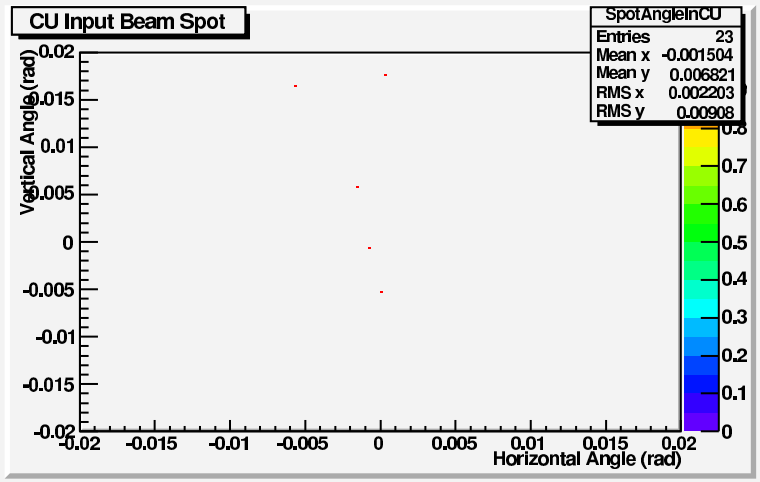

CU Input Horizontal coordinate
HorCoordInCU
Entries 23
Mean 0
RMS 0
Position (mm)

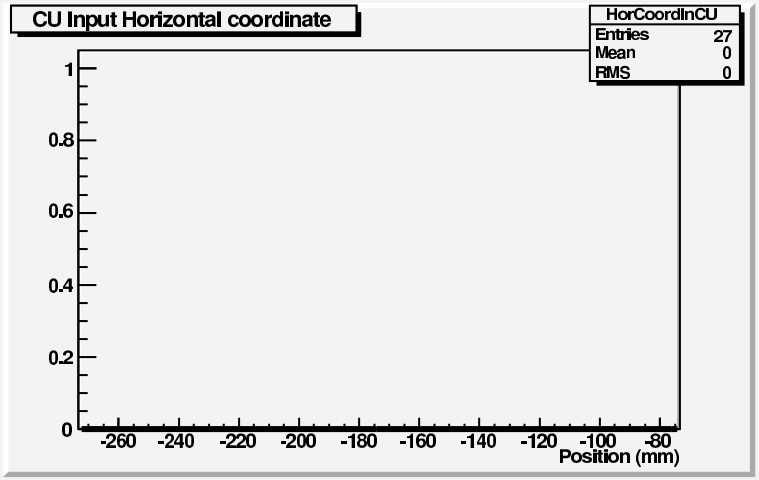

CU Input vertical coordinate
VertCoordInCU
Entries 23
Mean -15.43
RMS 30.95
Position (mm)

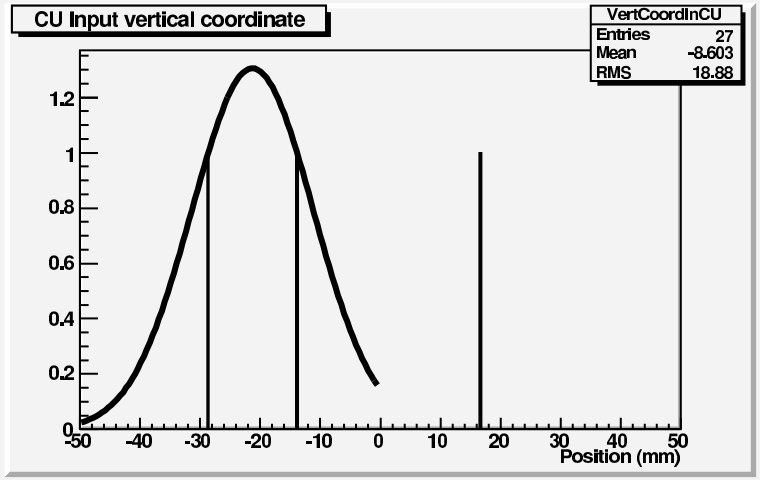

CU Input horizontal angle
HorAngleInCU
Entries 23
Mean 0.00656
RMS 0.00831
Angle (rad)

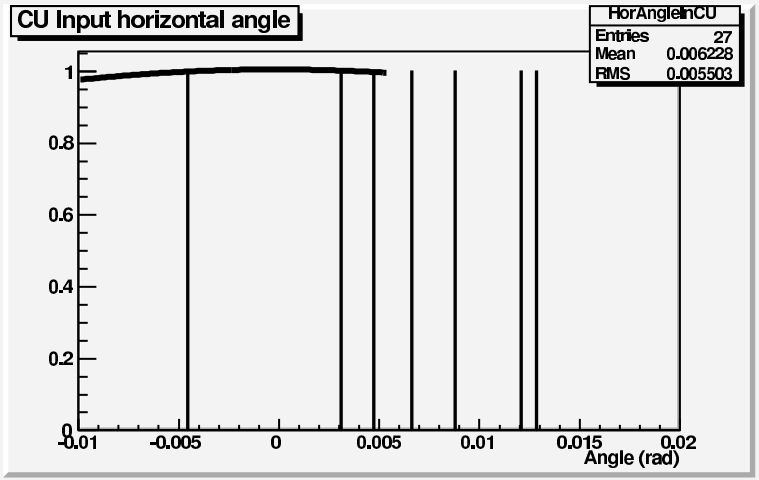

CU Input vertical angle
VertAngleInCU
Entries 23
Mean 0.0002061
RMS 0.008475
Angle (rad)

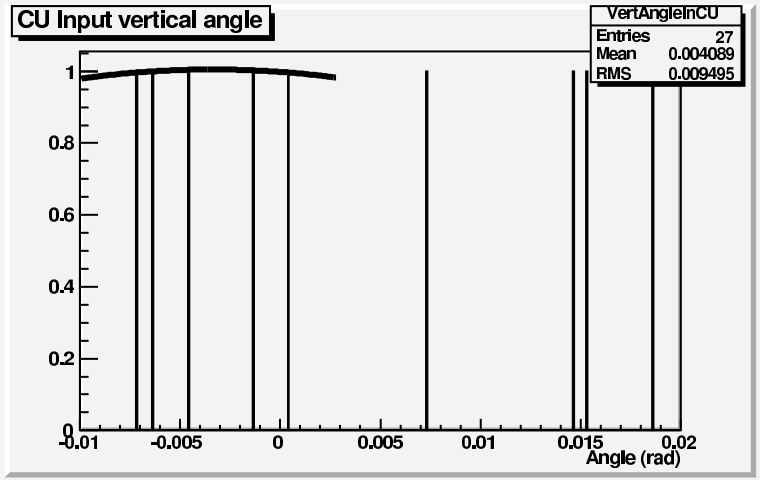

CU Input Beam Spot
SpotCoordInCU
Entries 23
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Position (mm)
Horizontal Position (mm)

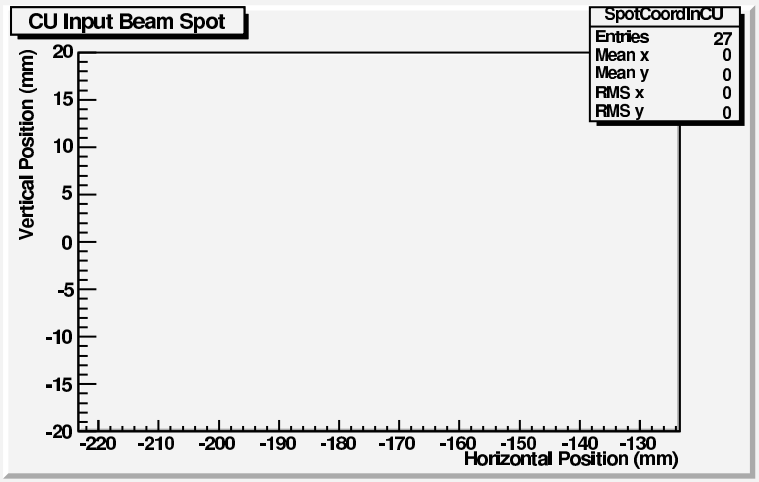

CU Input Beam Spot
SpotAngleInCU
Entries 23
Mean x -0.001504
Mean y 0.006821
RMS x 0.002203
RMS y 0.00908
Vertical Angle (rad)
Horizontal Angle (rad)

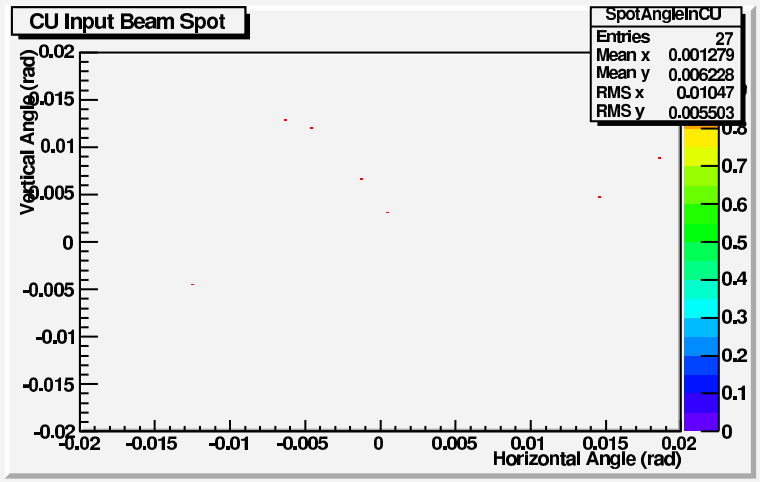

CU Input Horizontal coordinate
HorCoordInCU
Entries 27
Mean 0
RMS 0
Position (mm)

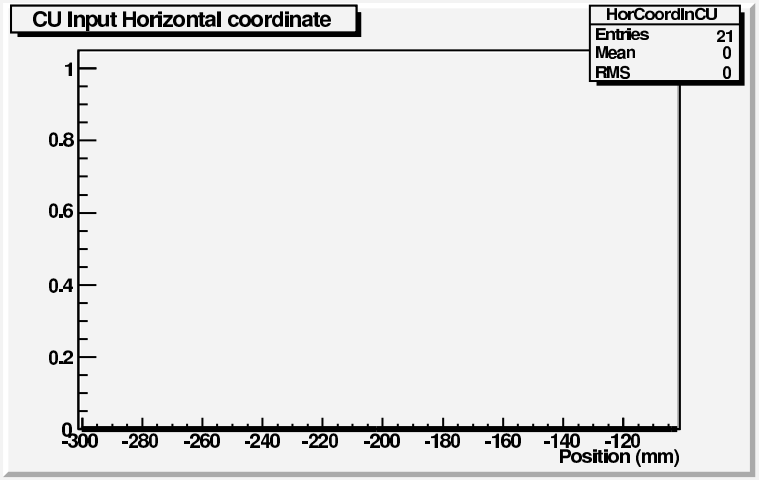

CU Input vertical coordinate
VertCoordInCU
Entries 27
Mean -8.603
RMS 18.88
Position (mm)

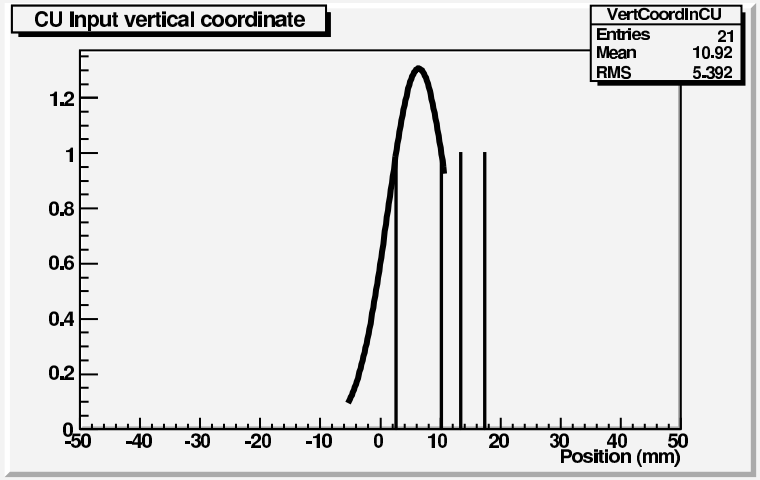

CU Input horizontal angle
HorAngleInCU
Entries 27
Mean 0.006228
RMS 0.005503
Angle (rad)

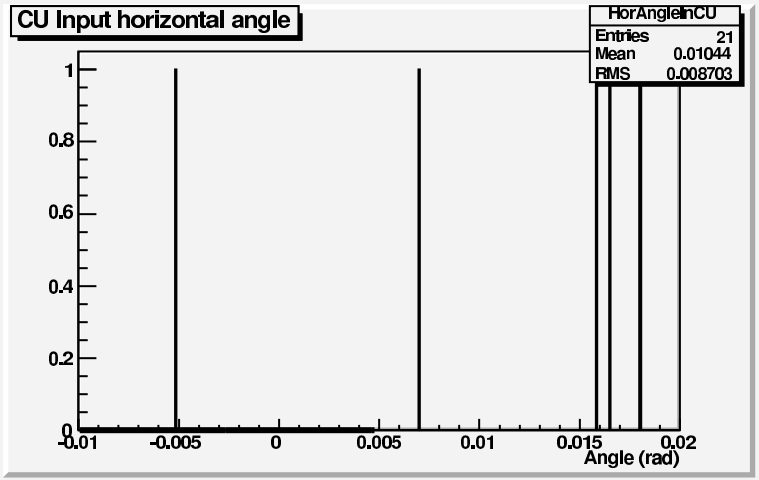

CU Input vertical angle
VertAngleInCU
Entries 27
Mean 0.004089
RMS 0.009495
Angle (rad)

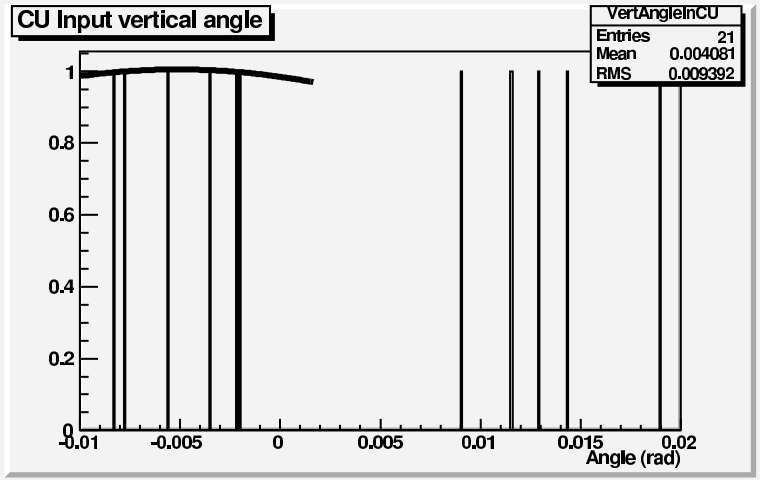

CU Input Beam Spot
SpotCoordInCU
Entries 27
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Position (mm)
Horizontal Position (mm)

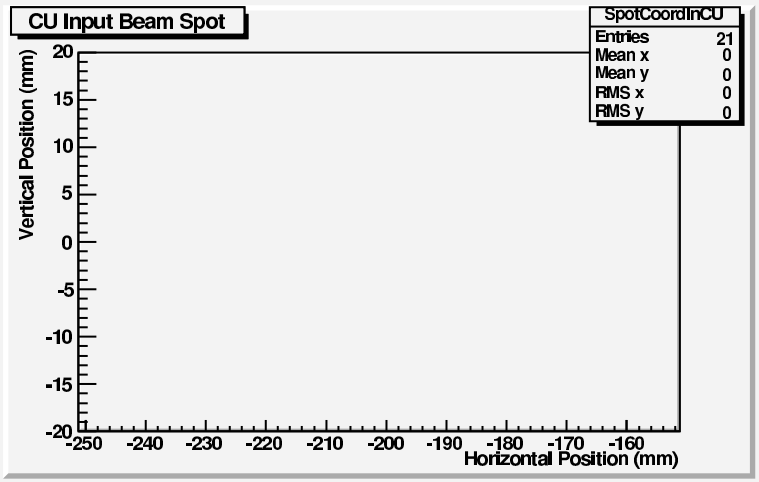

CU Input Beam Spot
SpotAngleInCU
Entries 27
Mean x 0.001279
Mean y 0.006228
RMS x 0.01047
RMS y 0.005503
Vertical Angle (rad)
Horizontal Angle (rad)

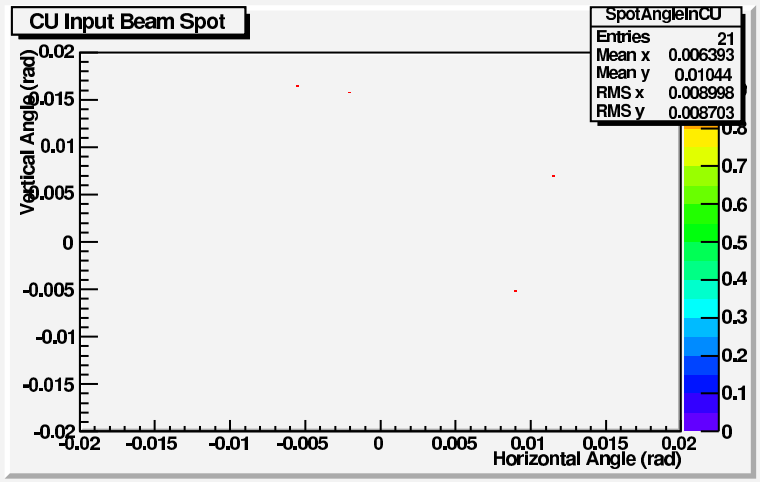

CU Input Horizontal coordinate
HorCoordInCU
Entries 21
Mean 0
RMS 0
Position (mm)

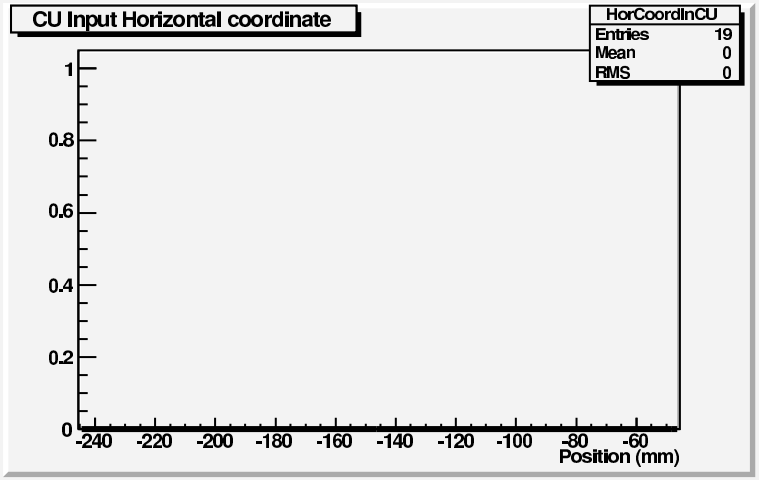

CU Input vertical coordinate
VertCoordInCU
Entries 21
Mean 10.92
RMS 5.392
Position (mm)

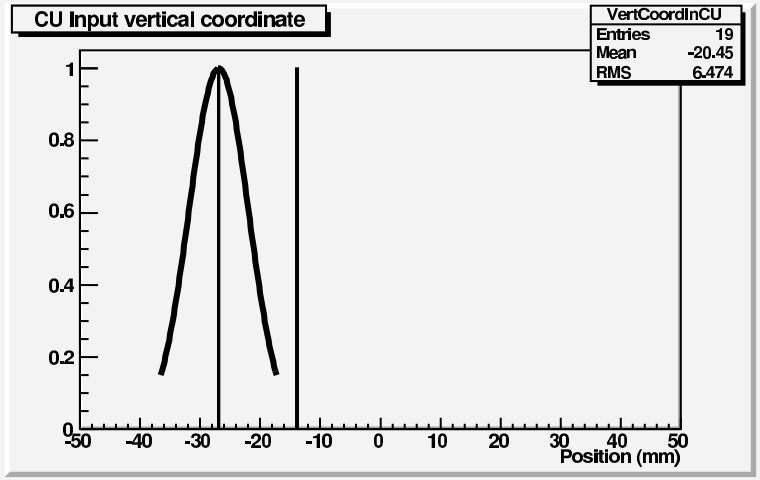

CU Input horizontal angle
HorAngleInCU
Entries 21
Mean 0.01044
RMS 0.008703
Angle (rad)

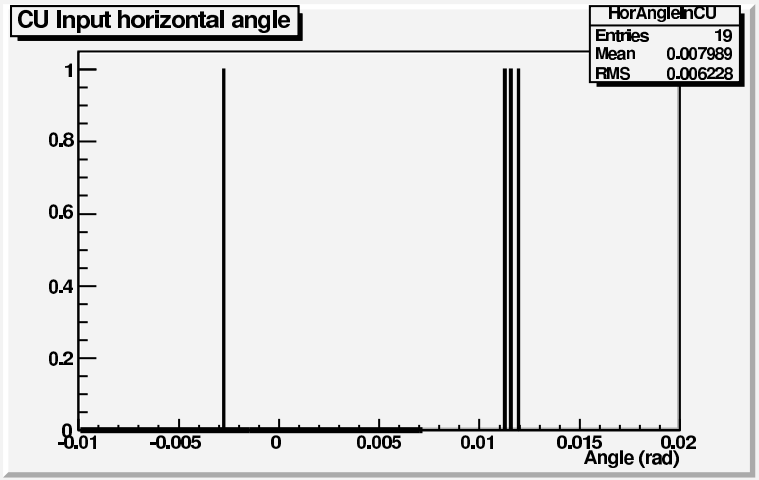

CU Input vertical angle
VertAngleInCU
Entries 21
Mean 0.004081
RMS 0.009392
Angle (rad)

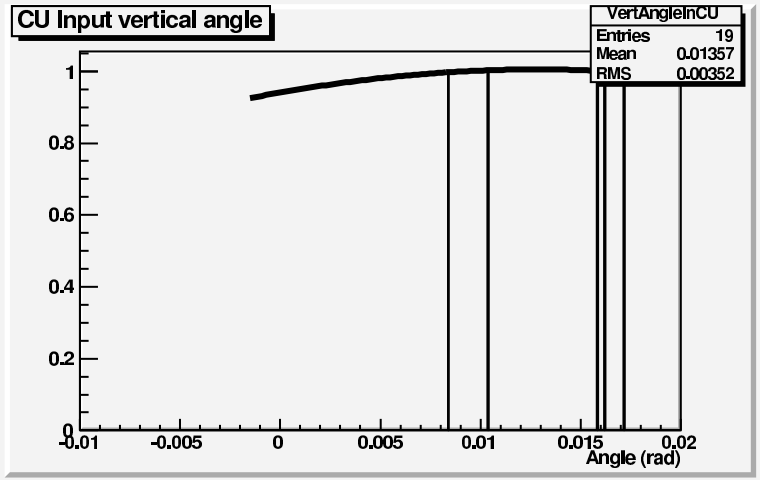

CU Input Beam Spot
SpotCoordInCU
Entries 21
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Position (mm)
Horizontal Position (mm)

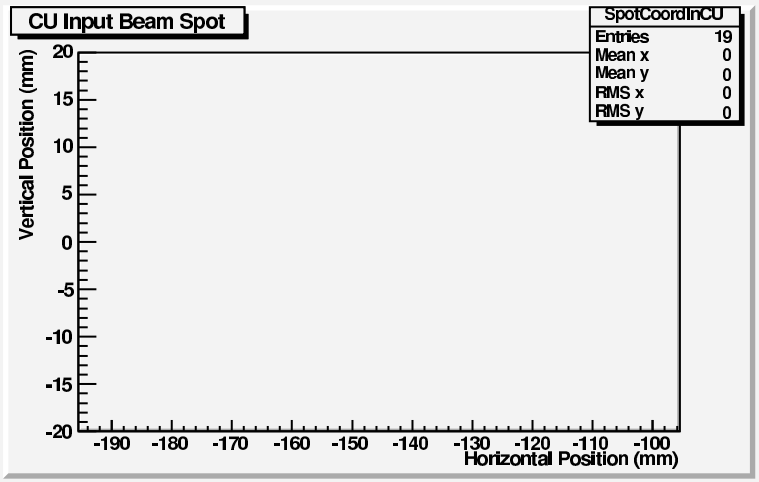

CU Input Beam Spot
SpotAngleInCU
Entries 21
Mean x 0.006393
Mean y 0.01044
RMS x 0.008998
RMS y 0.008703
Vertical Angle (rad)
Horizontal Angle (rad)

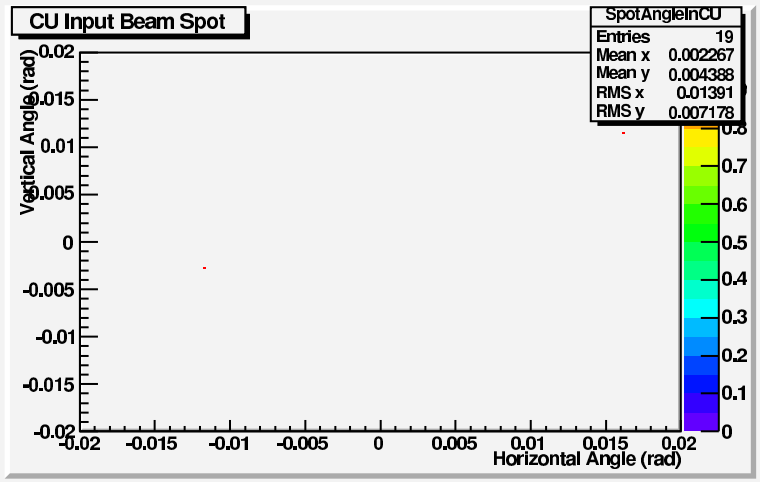

CU Input Horizontal coordinate
HorCoordInCU
Entries 19
Mean 0
RMS 0
Position (mm)

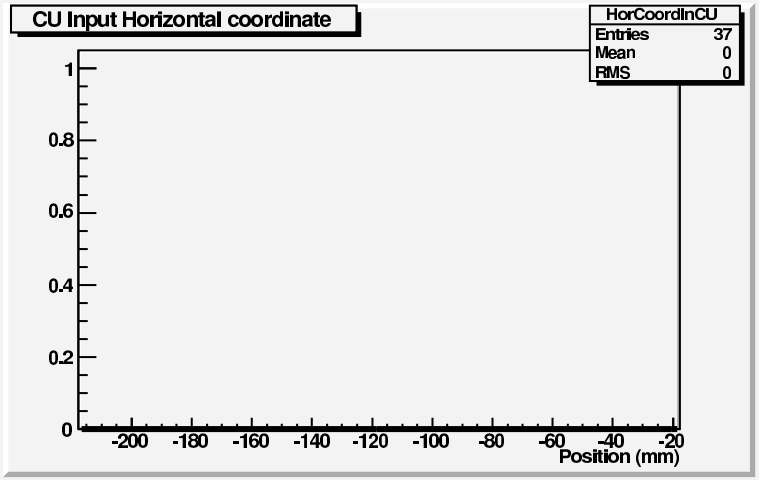

CU Input vertical coordinate
VertCoordInCU
Entries 19
Mean -20.45
RMS 6.474
Position (mm)

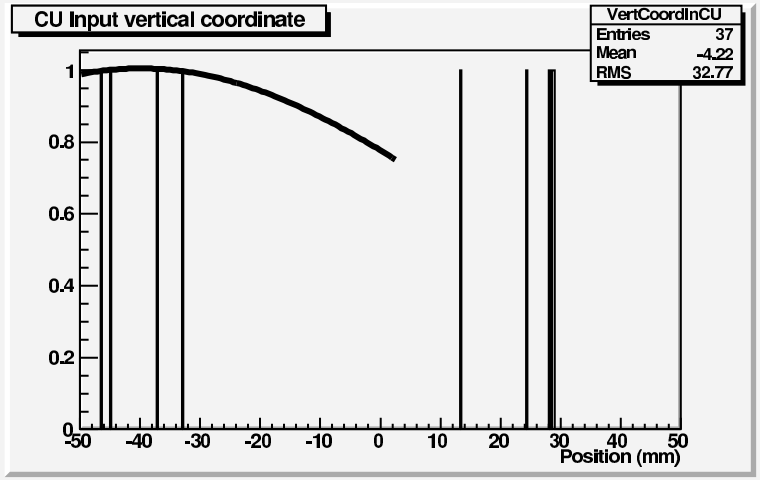

CU Input horizontal angle
HorAngleInCU
Entries 19
Mean 0.007989
RMS 0.006228
Angle (rad)

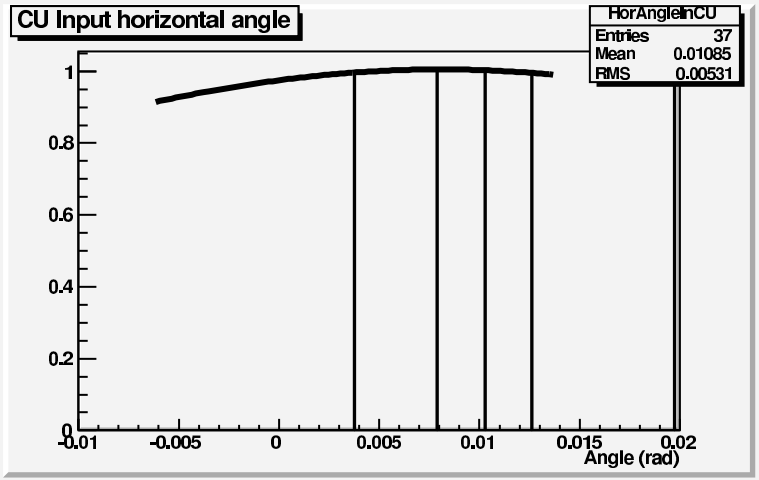

CU Input vertical angle
VertAngleInCU
Entries 19
Mean 0.01357
RMS 0.00352
Angle (rad)

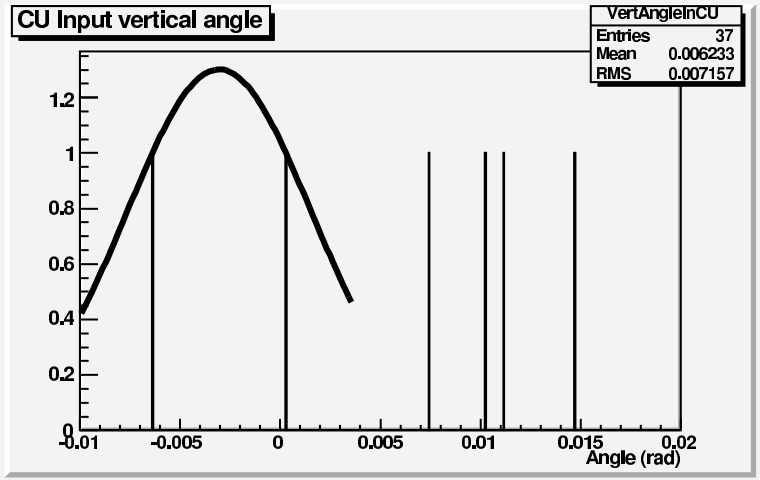

CU Input Beam Spot
SpotCoordInCU
Entries 19
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Position (mm)
Horizontal Position (mm)

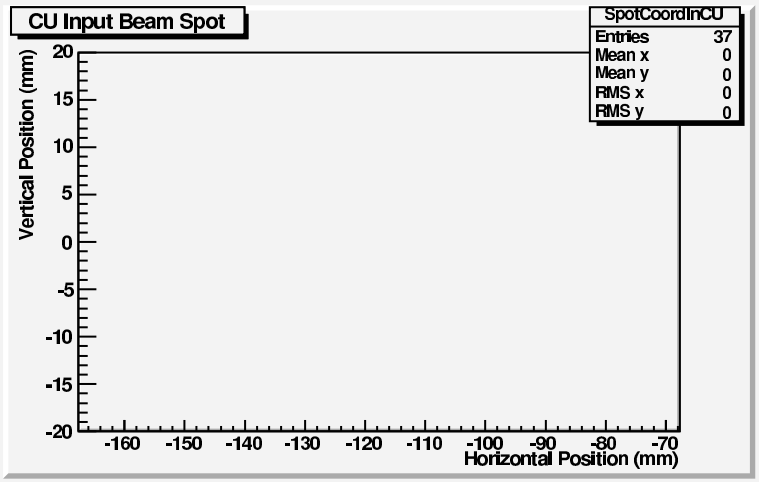

CU Input Beam Spot
SpotAngleInCU
Entries 19
Mean x 0.002267
Mean y 0.004388
RMS x 0.01391
RMS y 0.007178
Vertical Angle (rad)
Horizontal Angle (rad)

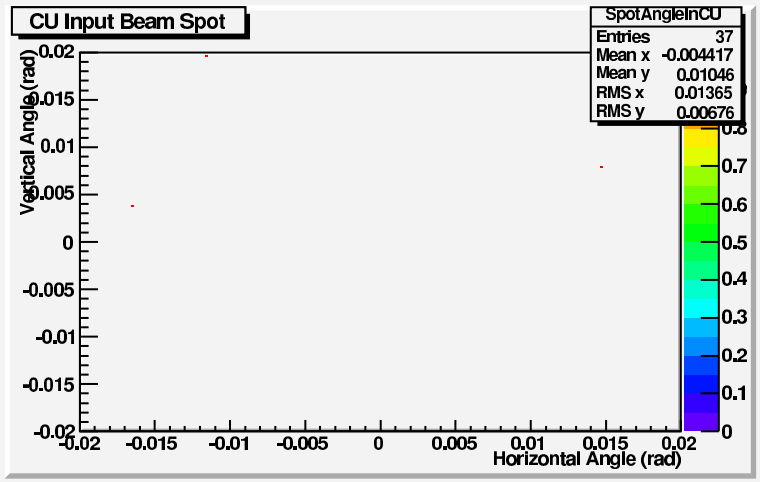

CU Input Horizontal coordinate
HorCoordInCU
Entries 37
Mean 0
RMS 0
Position (mm)

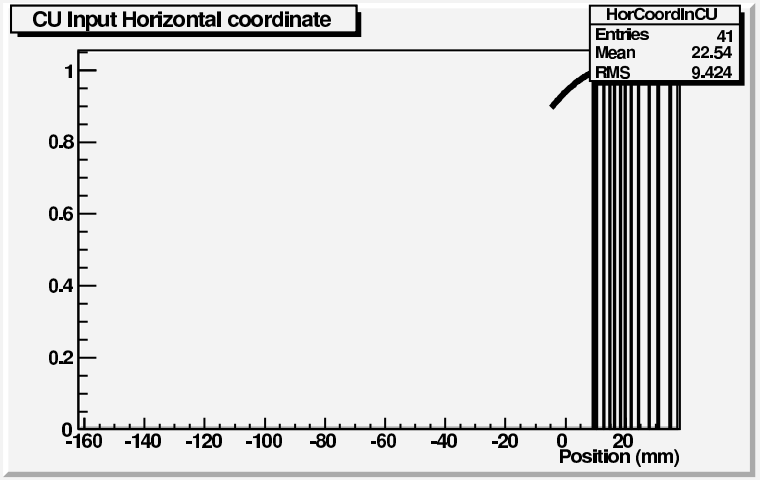

CU Input vertical coordinate
VertCoordInCU
Entries 37
Mean -4.22
RMS 32.77
Position (mm)

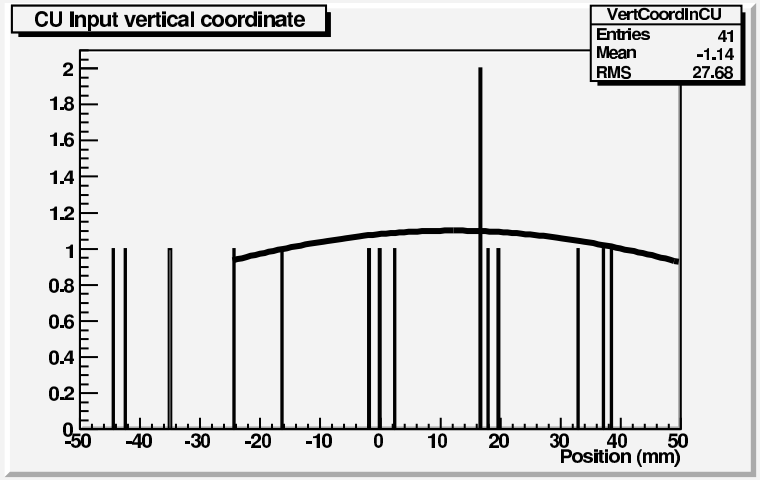

CU Input horizontal angle
HorAngleInCU
Entries 37
Mean 0.01085
RMS 0.00531
Angle (rad)

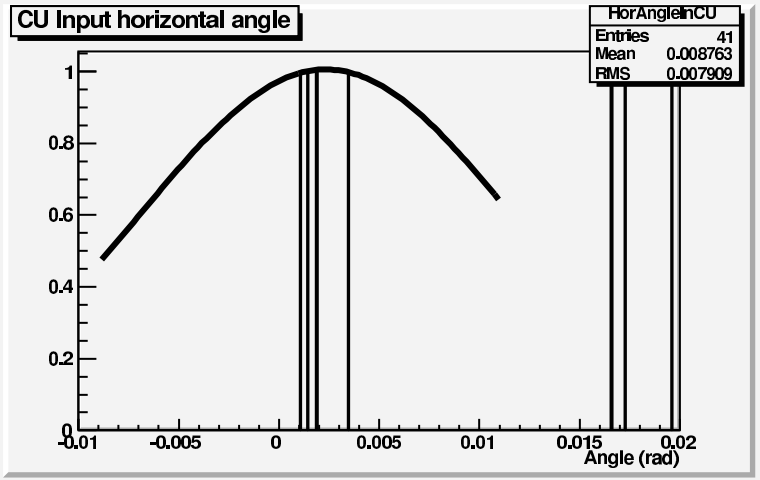

CU Input vertical angle
VertAngleInCU
Entries 37
Mean 0.006233
RMS 0.007157
Angle (rad)

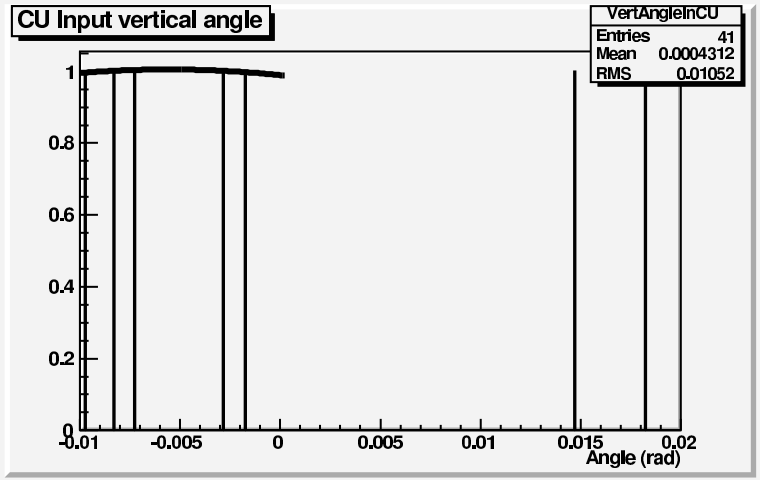

CU Input Beam Spot
SpotCoordInCU
Entries 37
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Position (mm)
Horizontal Position (mm)

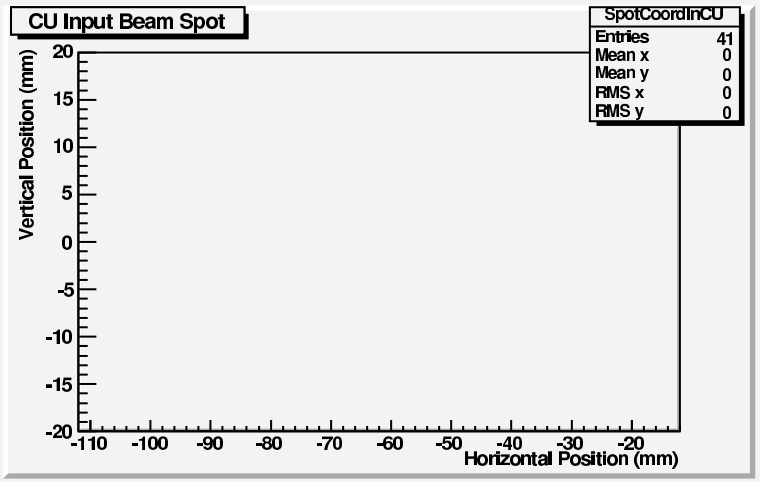

CU Input Beam Spot
SpotAngleInCU
Entries 37
Mean x -0.004417
Mean y 0.01046
RMS x 0.01365
RMS y 0.00676
Vertical Angle (rad)
Horizontal Angle (rad)

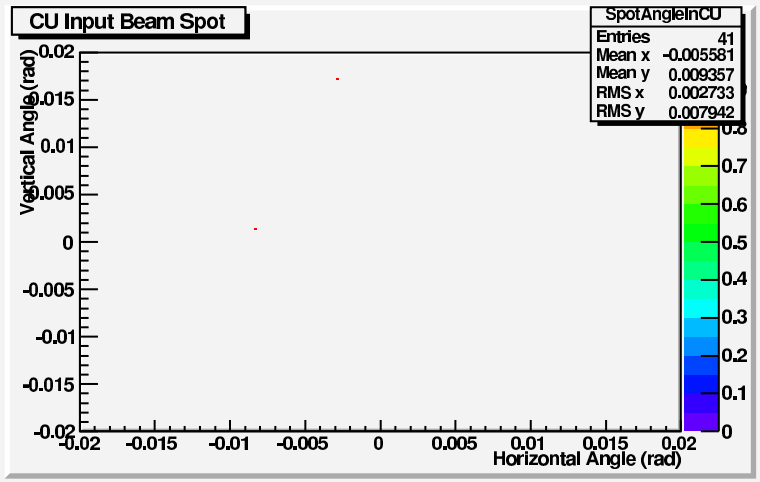

CU Input Horizontal coordinate
HorCoordInCU
Entries 41
Mean 22.54
RMS 9.424
Position (mm)

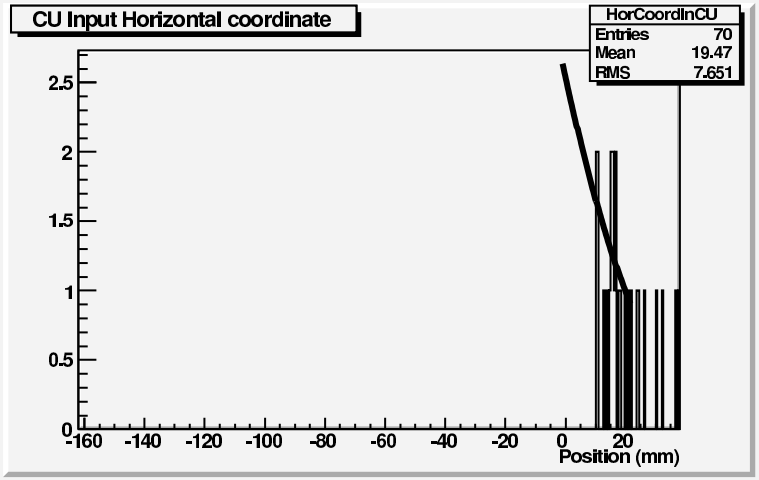

CU Input vertical coordinate
VertCoordInCU
Entries 41
Mean -1.14
RMS 27.68
Position (mm)

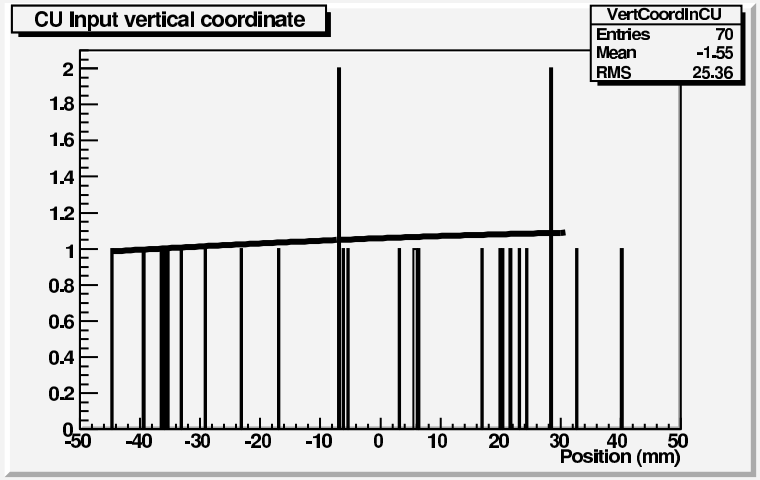

CU Input horizontal angle
HorAngleInCU
Entries 41
Mean 0.008763
RMS 0.007909
Angle (rad)

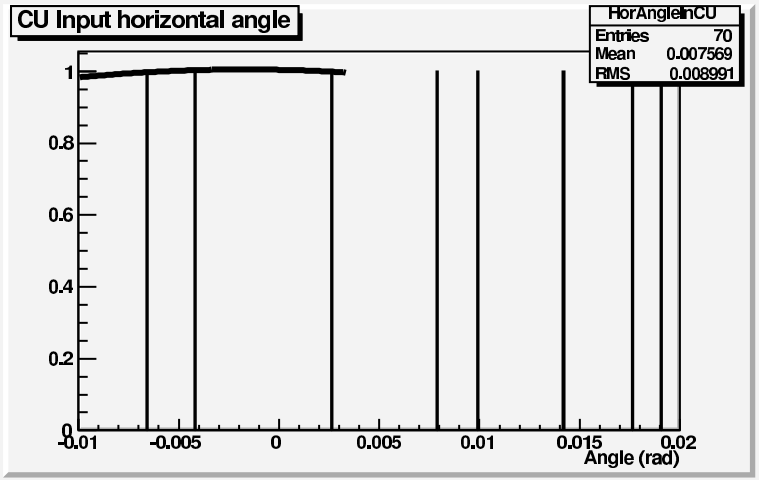

CU Input vertical angle
VertAngleInCU
Entries 41
Mean 0.0004312
RMS 0.01052
Angle (rad)

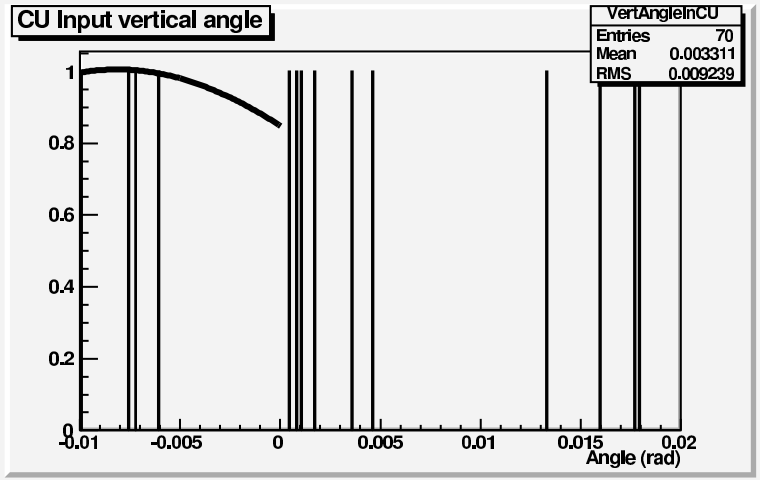

CU Input Beam Spot
SpotCoordInCU
Entries 41
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Position (mm)
Horizontal Position (mm)

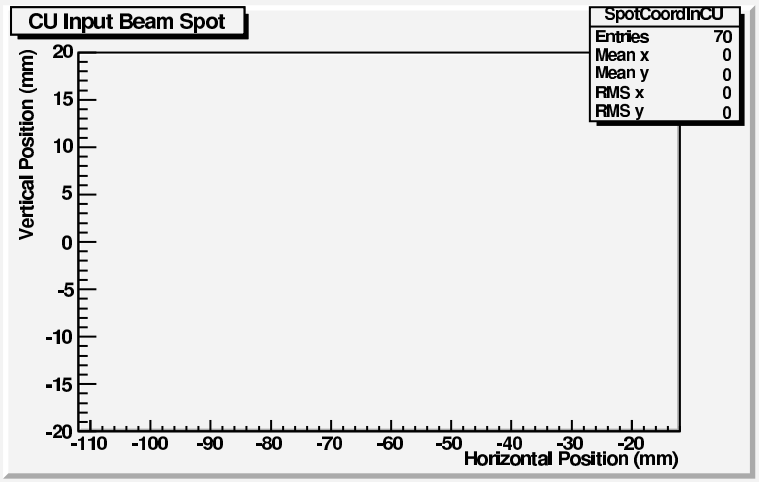

CU Input Beam Spot
SpotAngleInCU
Entries 41
Mean x -0.005581
Mean y 0.009357
RMS x 0.002733
RMS y 0.007942
Vertical Angle (rad)
Horizontal Angle (rad)

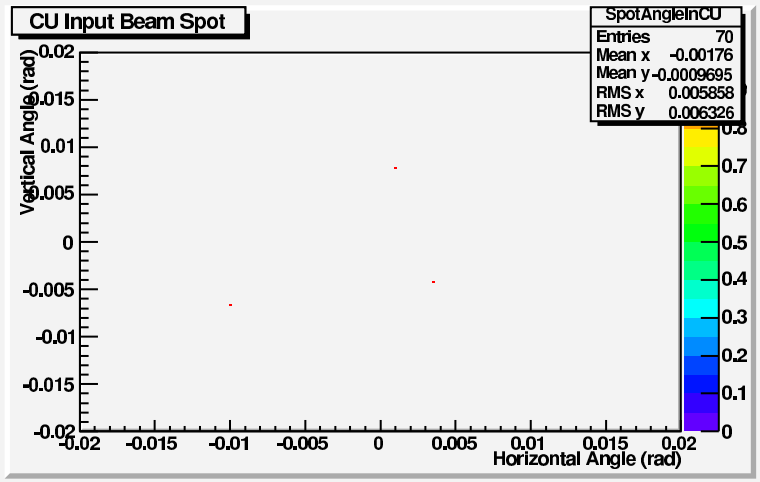

CU Input Horizontal coordinate
HorCoordInCU
Entries 70
Mean 19.47
RMS 7.651
Position (mm)

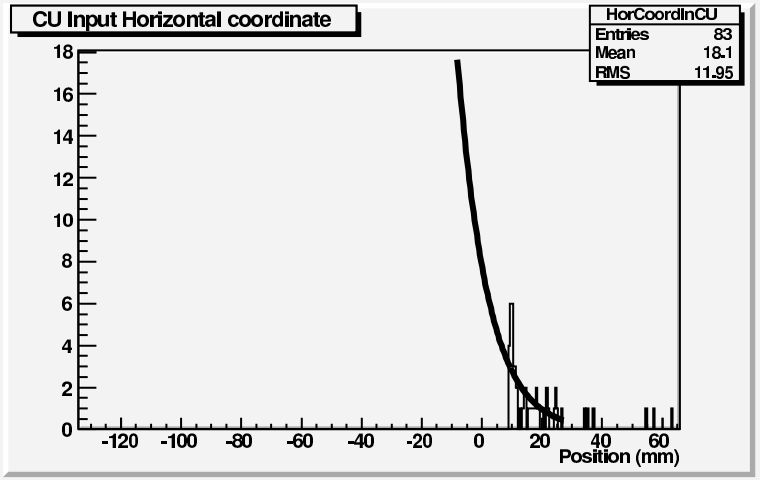

CU Input vertical coordinate
VertCoordInCU
Entries 70
Mean -1.55
RMS 25.36
Position (mm)

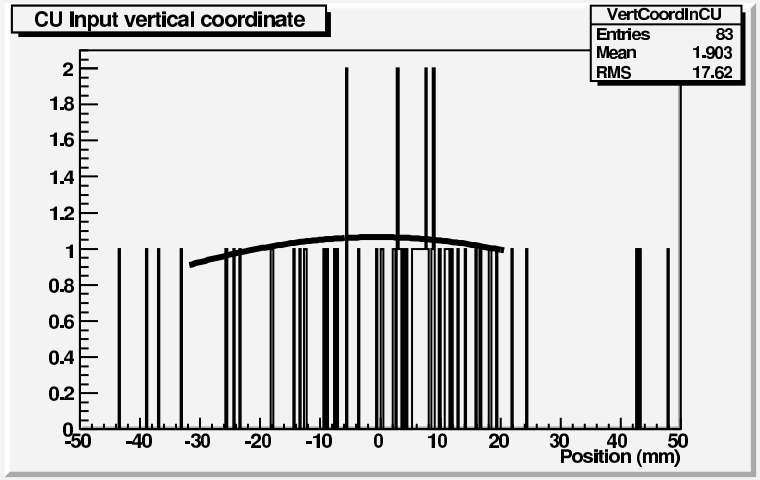

CU Input horizontal angle
HorAngleInCU
Entries 70
Mean 0.007569
RMS 0.008991
Angle (rad)

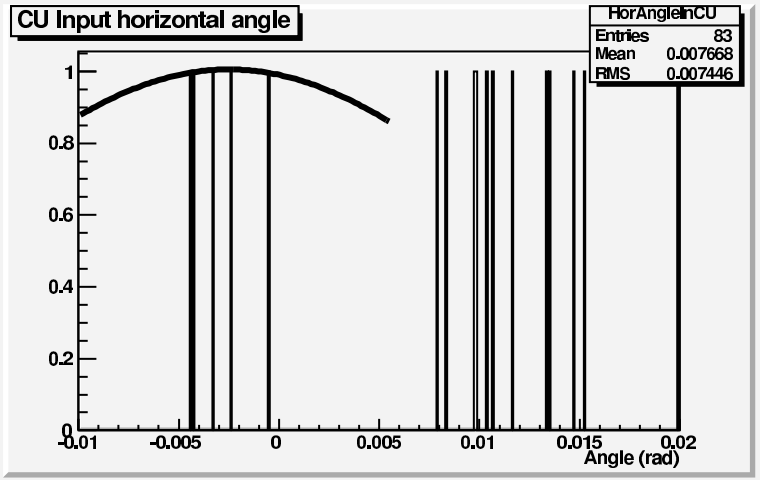

CU Input vertical angle
VertAngleInCU
Entries 70
Mean 0.003311
RMS 0.009239
Angle (rad)

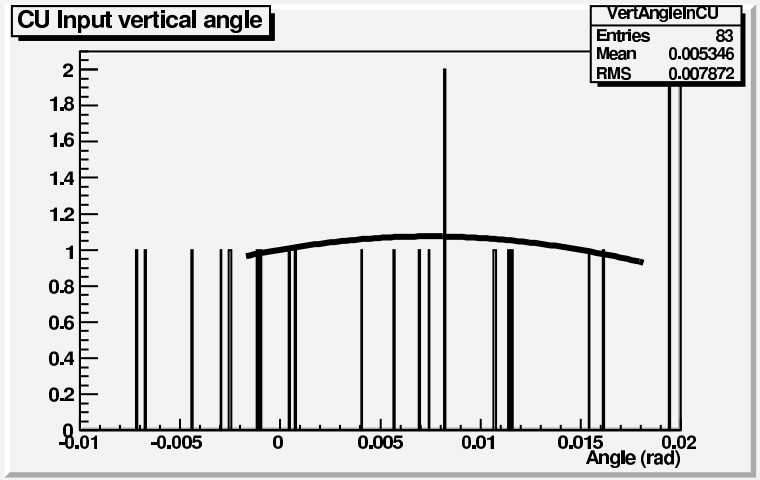

CU Input Beam Spot
SpotCoordInCU
Entries 70
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Position (mm)
Horizontal Position (mm)

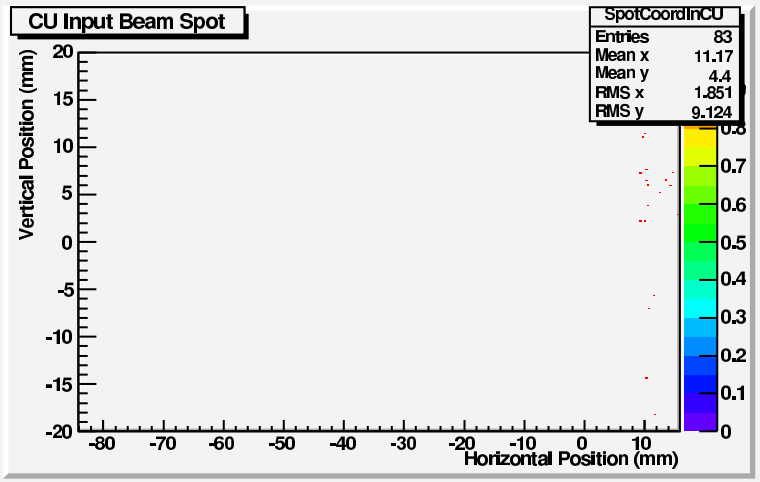

CU Input Beam Spot
SpotAngleInCU
Entries 70
Mean x -0.00176
Mean y -0.0009695
RMS x 0.005858
RMS y 0.006326
Vertical Angle (rad)
Horizontal Angle (rad)

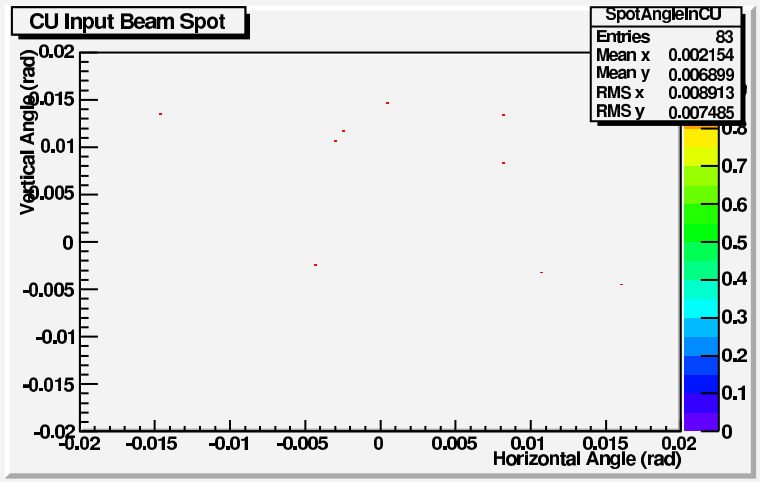

CU Input Horizontal coordinate
HorCoordInCU
Entries 83
Mean 18.1
RMS 11.95
Position (mm)

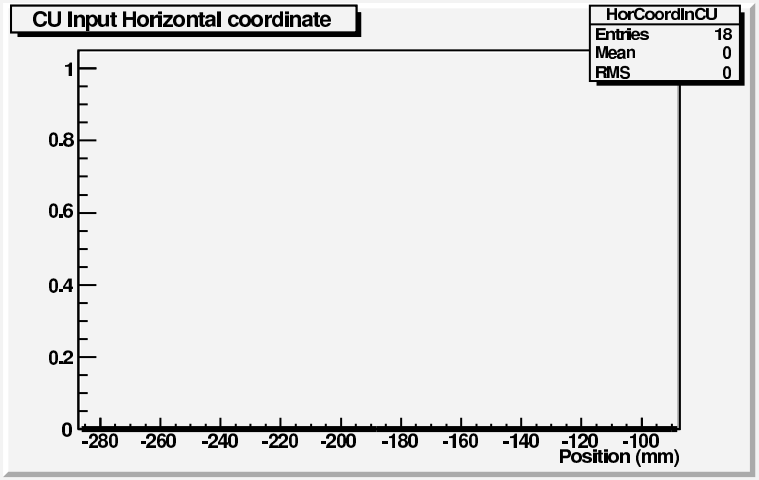

CU Input vertical coordinate
VertCoordInCU
Entries 83
Mean 1.903
RMS 17.62
Position (mm)

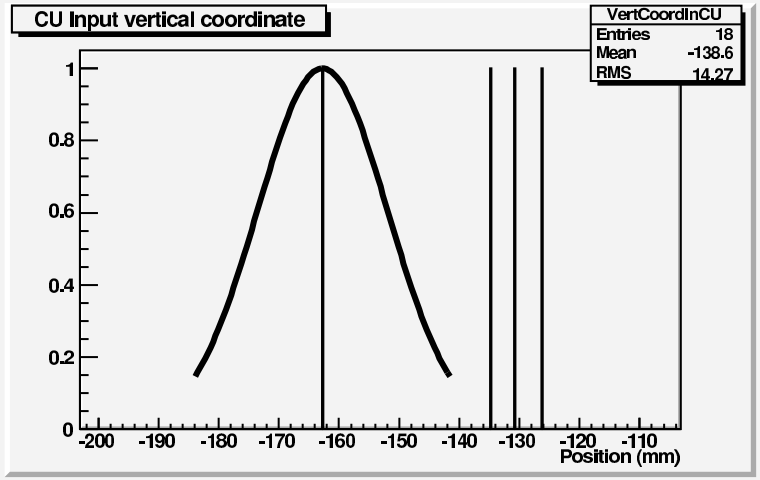

CU Input horizontal angle
HorAngleInCU
Entries 83
Mean 0.007668
RMS 0.007446
Angle (rad)

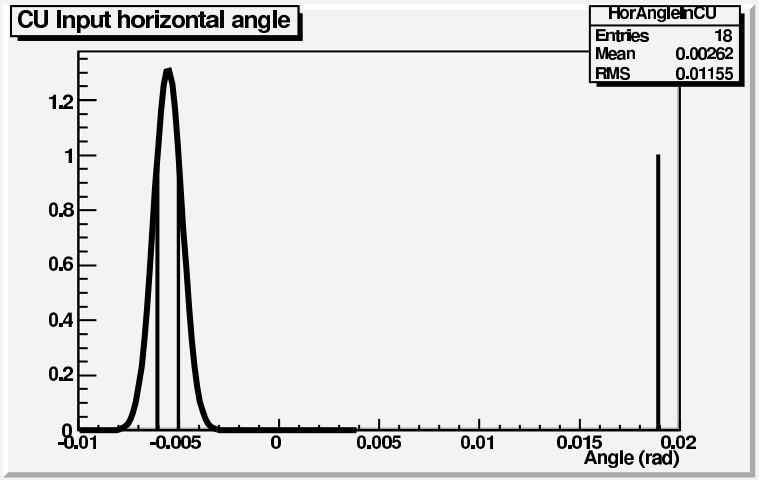

CU Input vertical angle
VertAngleInCU
Entries 83
Mean 0.005346
RMS 0.007872
Angle (rad)

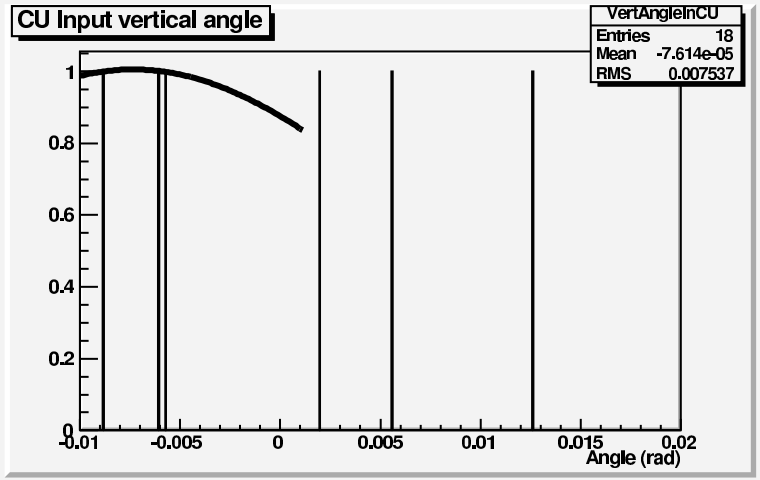

CU Input Beam Spot
SpotCoordInCU
Entries 83
Mean x 11.17
Mean y 4.4
RMS x 1.851
RMS y 9.124
Vertical Position (mm)
Horizontal Position (mm)

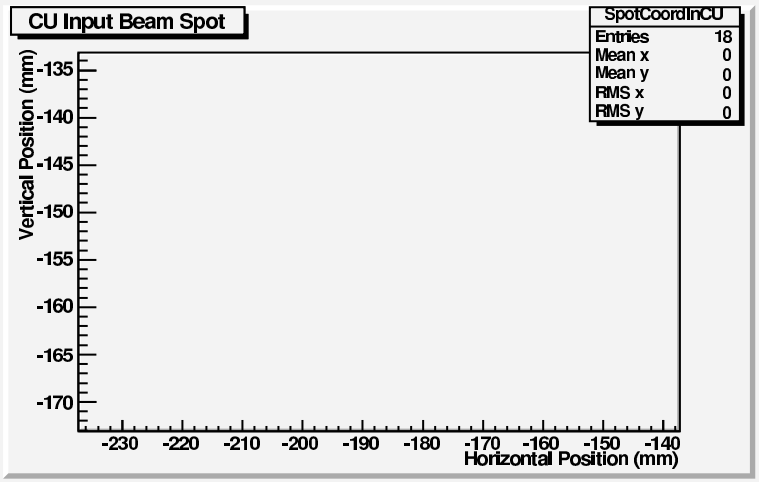

CU Input Beam Spot
SpotAngleInCU
Entries 83
Mean x 0.002154
Mean y 0.006899
RMS x 0.008913
RMS y 0.007485
Vertical Angle (rad)
Horizontal Angle (rad)

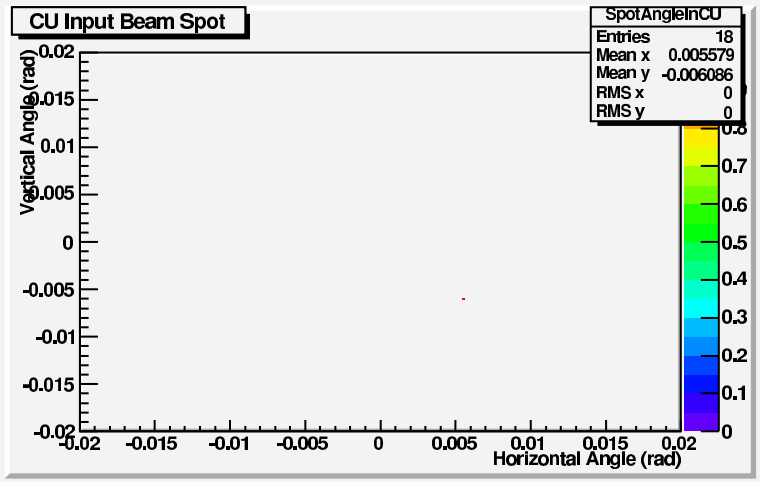

CU Input Horizontal coordinate
HorCoordInCU
Entries 18
Mean 0
RMS 0
Position (mm)

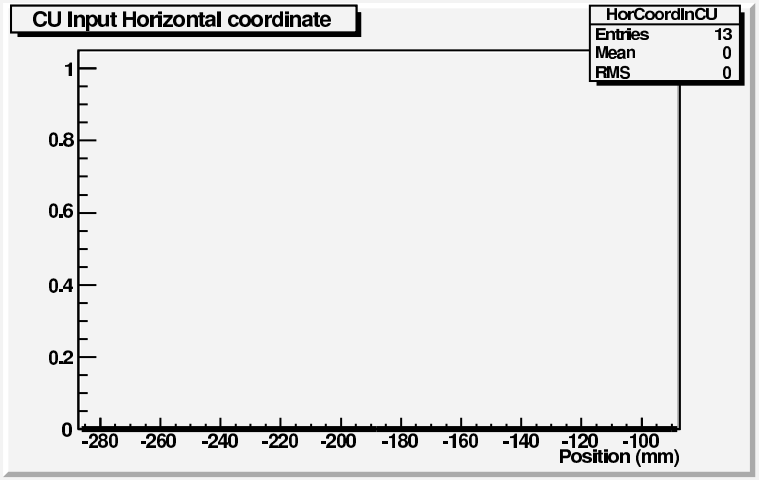

CU Input vertical coordinate
VertCoordInCU
Entries 18
Mean -138.6
RMS 14.27
Position (mm)

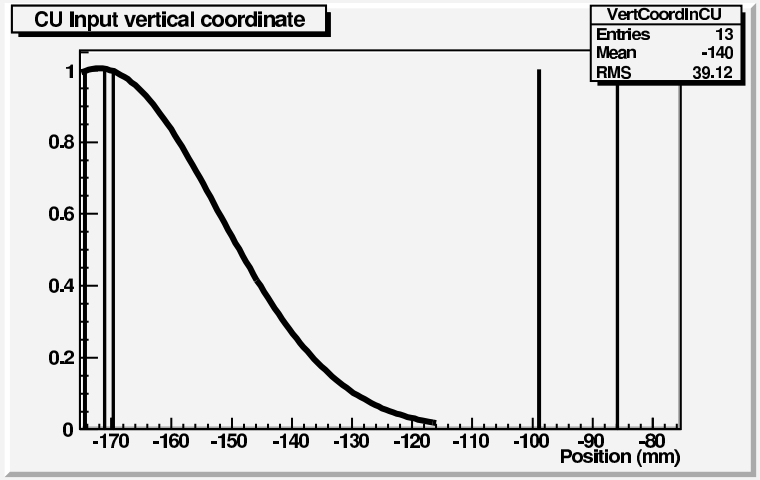

CU Input horizontal angle
HorAngleInCU
Entries 18
Mean 0.00262
RMS 0.01155
Angle (rad)

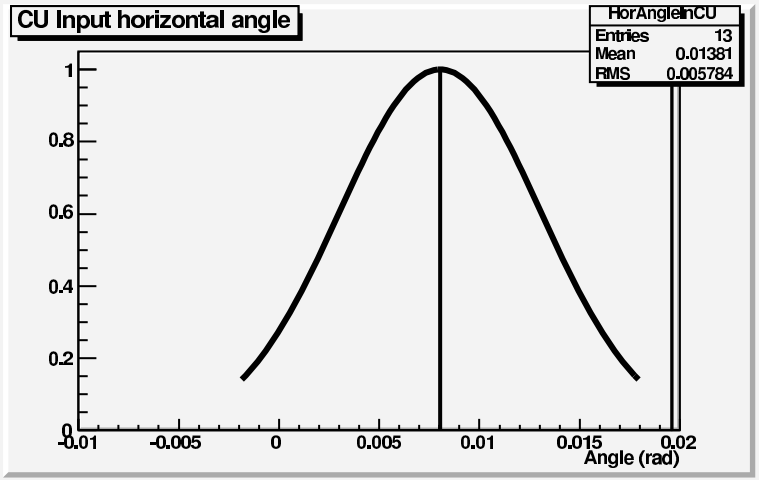

CU Input vertical angle
VertAngleInCU
Entries 18
Mean -7.614e-05
RMS 0.007537
Angle (rad)

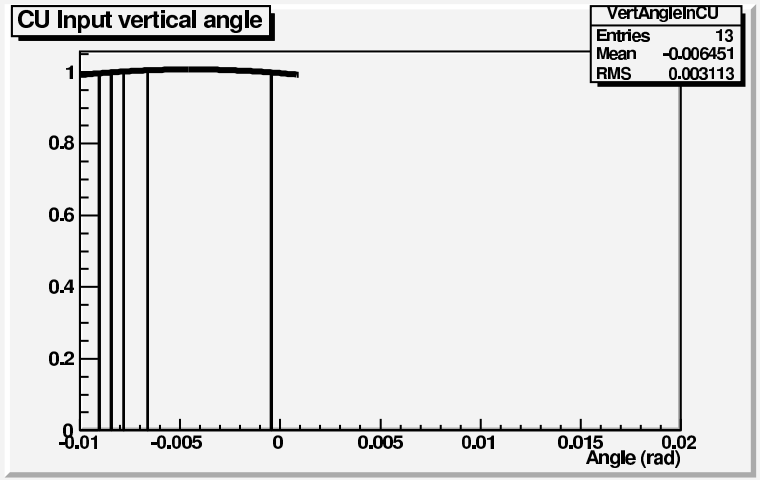

CU Input Beam Spot
SpotCoordInCU
Entries 18
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Position (mm)
Horizontal Position (mm)

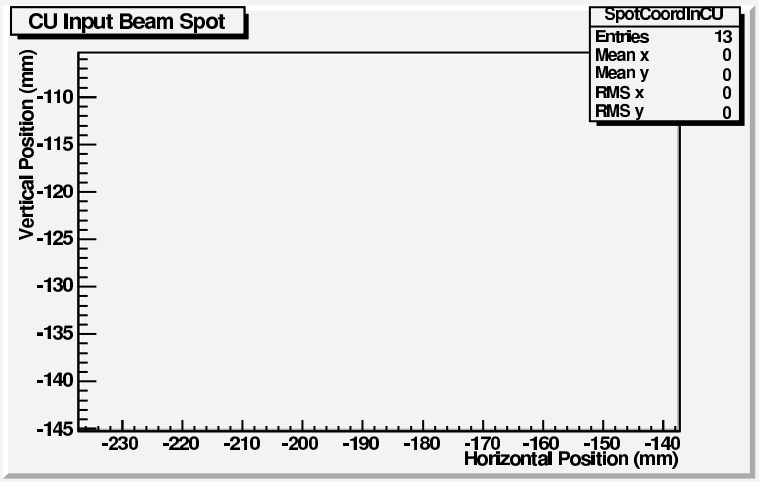

CU Input Beam Spot
SpotAngleInCU
Entries 18
Mean x 0.005579
Mean y -0.006086
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

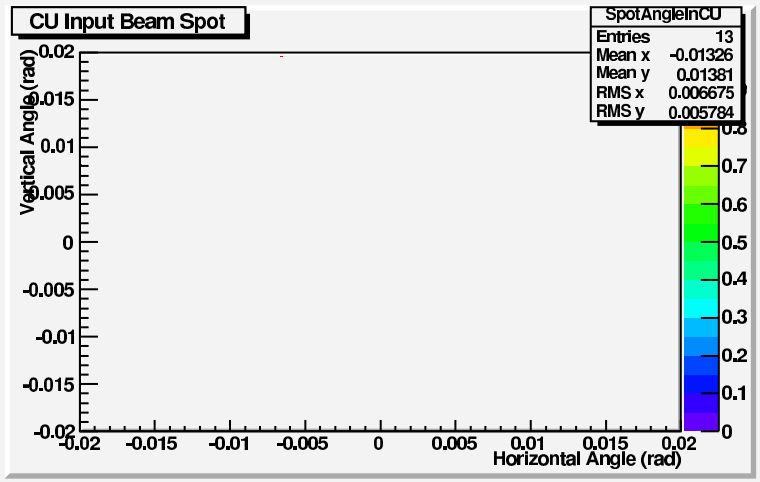

CU Input Horizontal coordinate
HorCoordInCU
Entries 13
Mean 0
RMS 0
Position (mm)

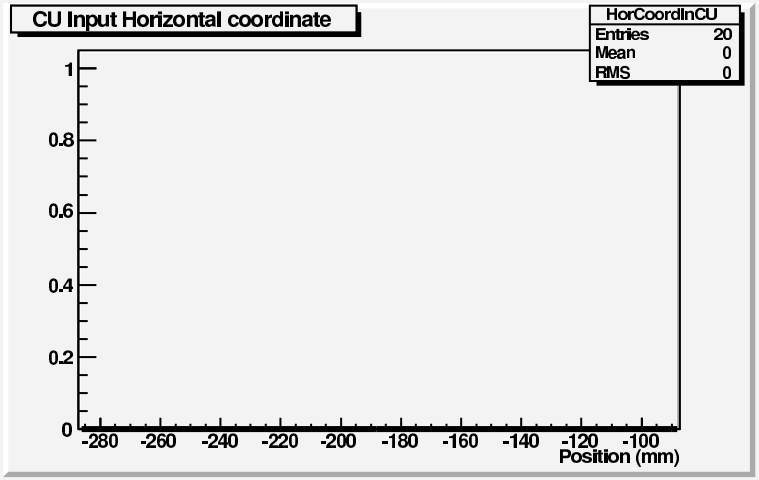

CU Input vertical coordinate
VertCoordInCU
Entries 13
Mean -140
RMS 39.12
Position (mm)

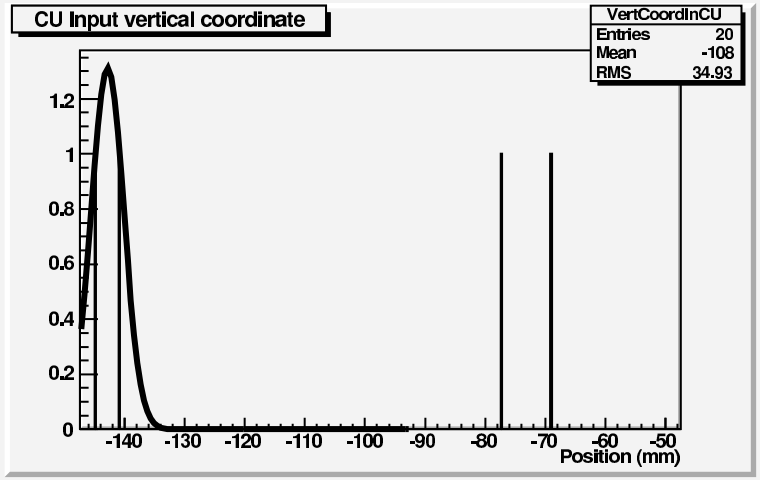

CU Input horizontal angle
HorAngleInCU
Entries 13
Mean 0.01381
RMS 0.005784
Angle (rad)

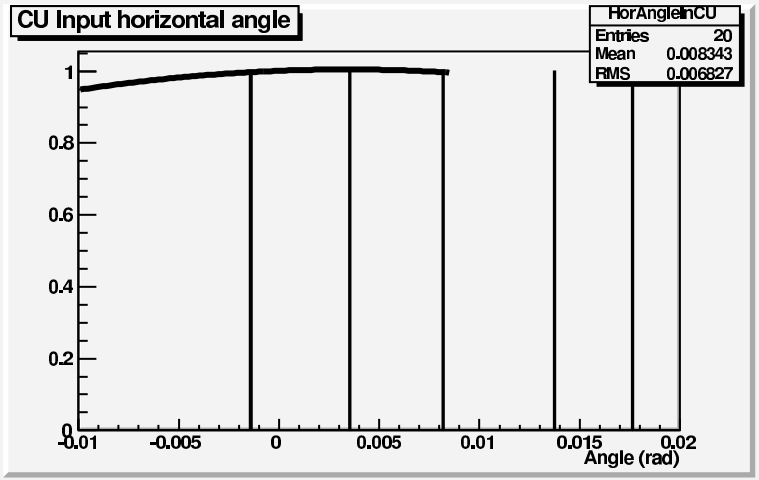

CU Input vertical angle
VertAngleInCU
Entries 13
Mean -0.006451
RMS 0.003113
Angle (rad)

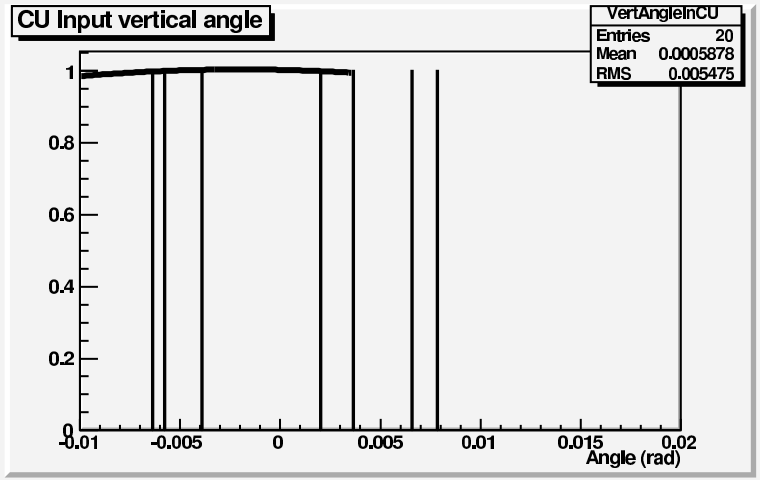

CU Input Beam Spot
SpotCoordInCU
Entries 13
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Position (mm)
Horizontal Position (mm)

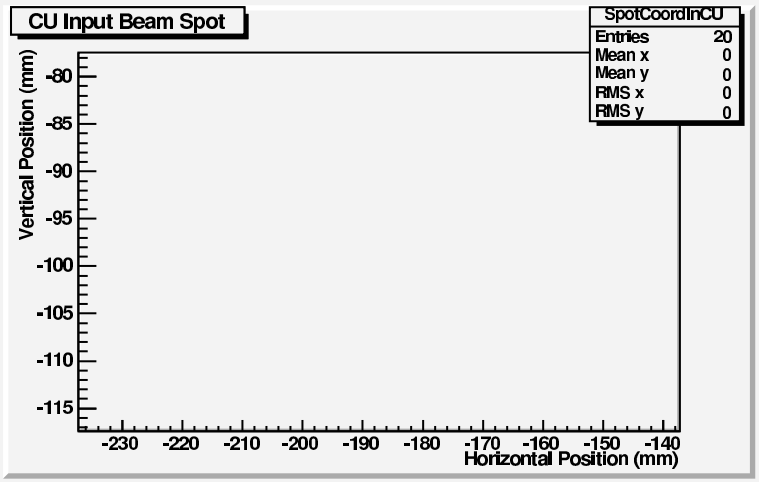

CU Input Beam Spot
SpotAngleInCU
Entries 13
Mean x -0.01326
Mean y 0.01381
RMS x 0.006675
RMS y 0.005784
Vertical Angle (rad)
Horizontal Angle (rad)

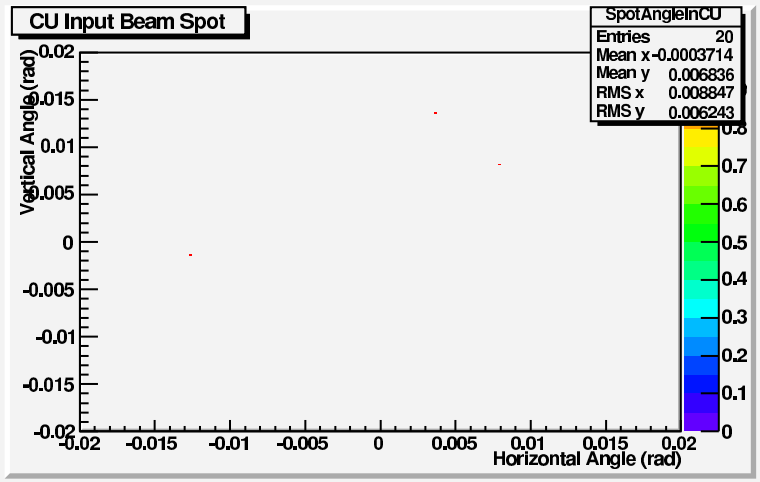

CU Input Horizontal coordinate
HorCoordInCU
Entries 20
Mean 0
RMS 0
Position (mm)

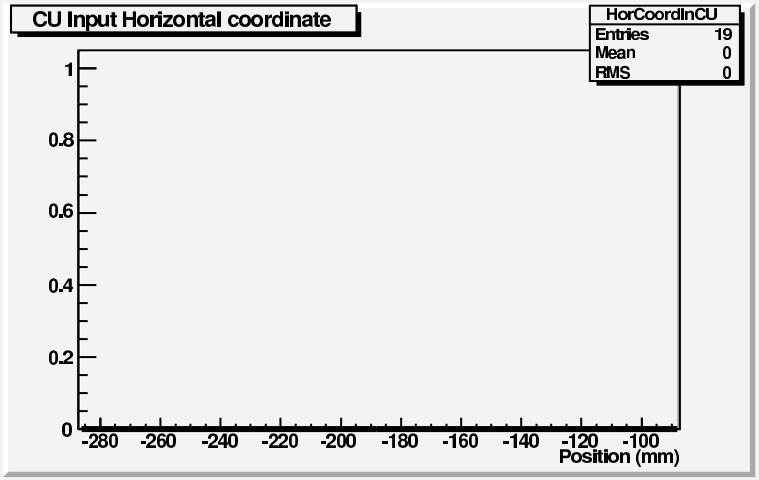

CU Input vertical coordinate
VertCoordInCU
Entries 20
Mean -108
RMS 34.93
Position (mm)

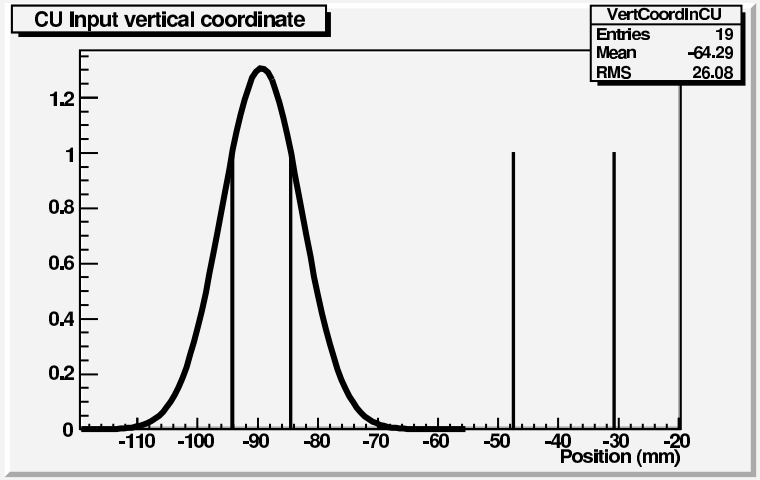

CU Input horizontal angle
HorAngleInCU
Entries 20
Mean 0.008343
RMS 0.006827
Angle (rad)

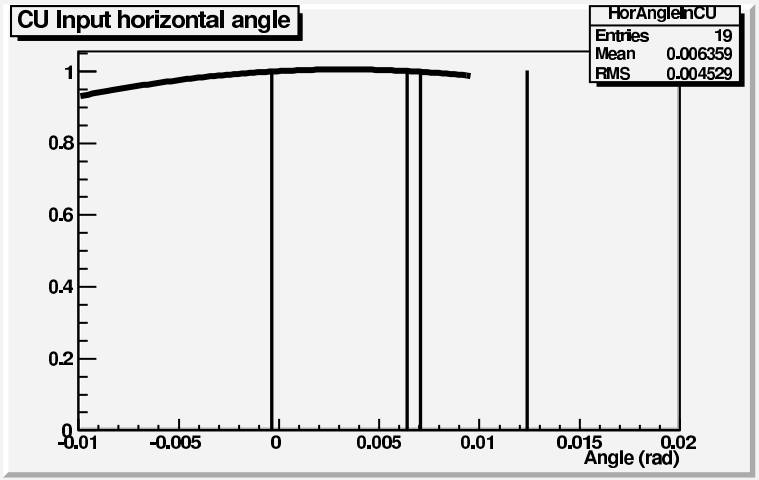

CU Input vertical angle
VertAngleInCU
Entries 20
Mean 0.0005878
RMS 0.005475
Angle (rad)

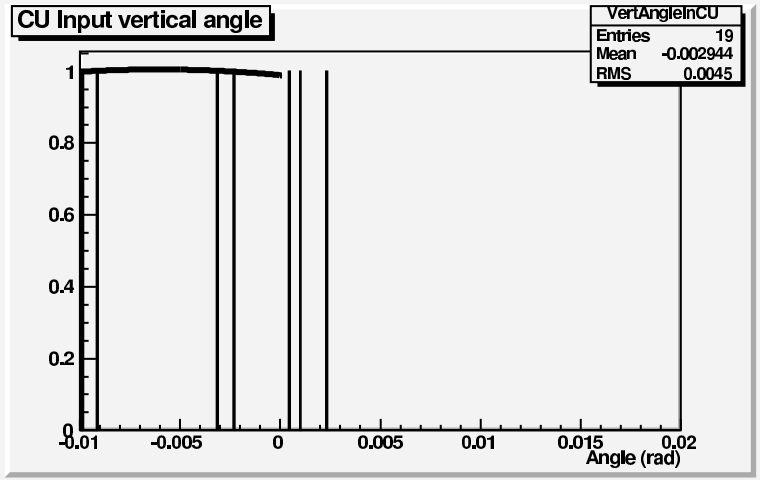

CU Input Beam Spot
SpotCoordInCU
Entries 20
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Position (mm)
Horizontal Position (mm)

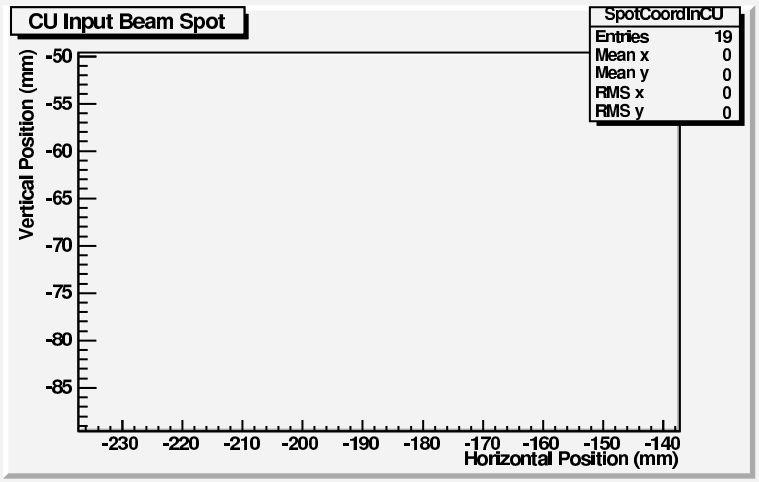

CU Input Beam Spot
SpotAngleInCU
Entries 20
Mean x -0.0003714
Mean y 0.006836
RMS x 0.008847
RMS y 0.006243
Vertical Angle (rad)
Horizontal Angle (rad)

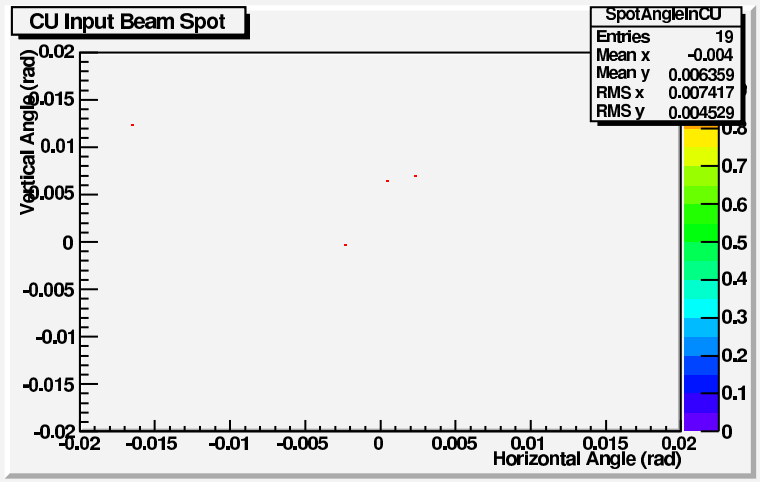

CU Input Horizontal coordinate
HorCoordInCU
Entries 19
Mean 0
RMS 0
Position (mm)

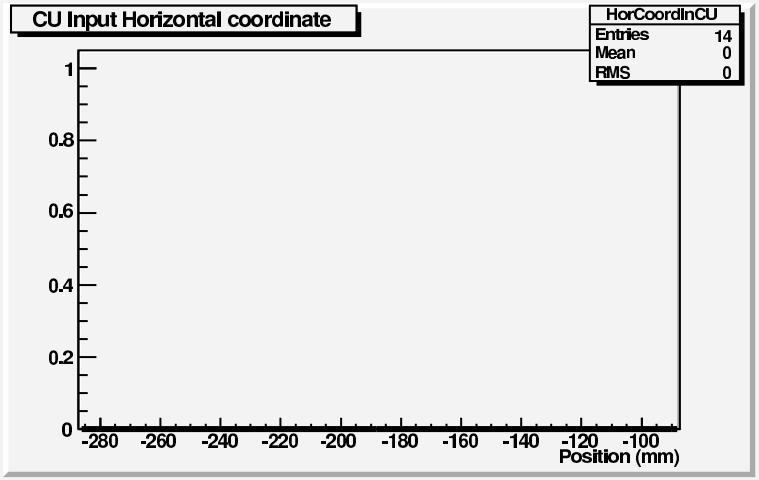

CU Input vertical coordinate
VertCoordInCU
Entries 19
Mean -64.29
RMS 26.08
Position (mm)

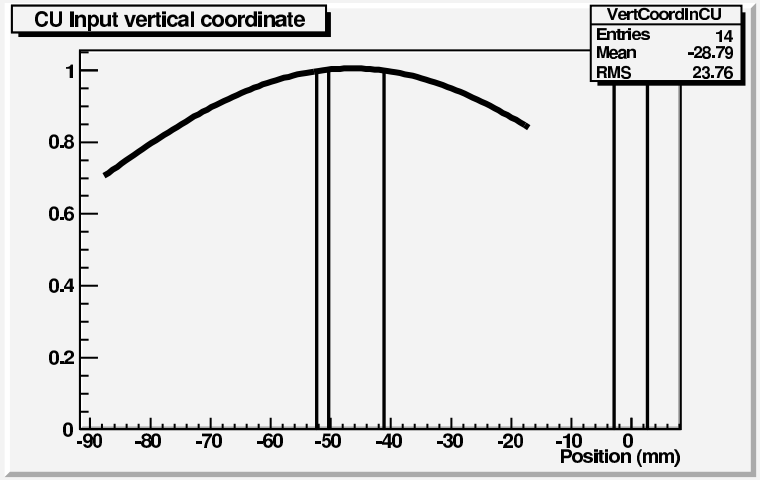

CU Input horizontal angle
HorAngleInCU
Entries 19
Mean 0.006359
RMS 0.004529
Angle (rad)

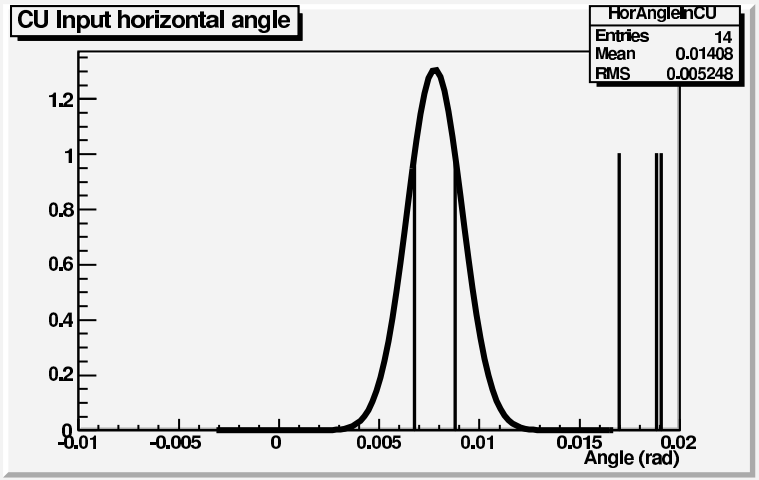

CU Input vertical angle
VertAngleInCU
Entries 19
Mean -0.002944
RMS 0.0045
Angle (rad)

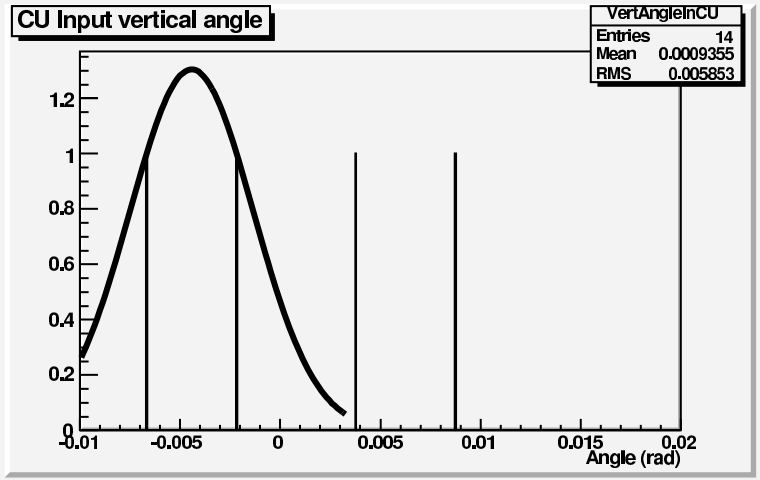

CU Input Beam Spot
SpotCoordInCU
Entries 19
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Position (mm)
Horizontal Position (mm)

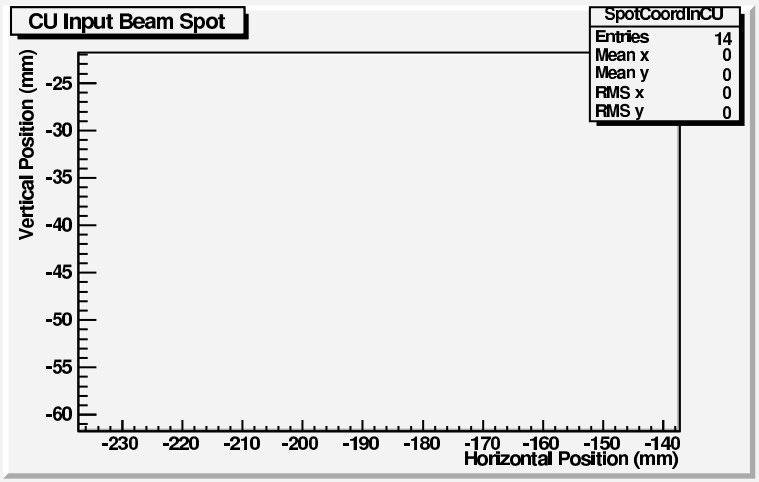

CU Input Beam Spot
SpotAngleInCU
Entries 19
Mean x -0.004
Mean y 0.006359
RMS x 0.007417
RMS y 0.004529
Vertical Angle (rad)
Horizontal Angle (rad)

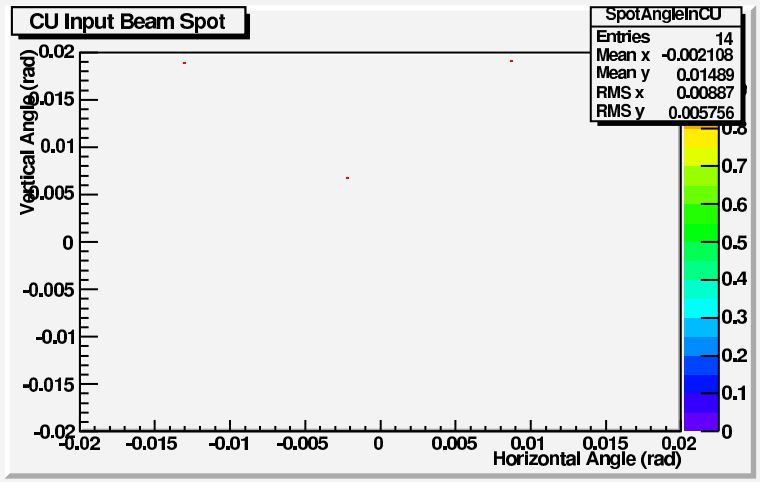

CU Input Horizontal coordinate
HorCoordInCU
Entries 14
Mean 0
RMS 0
Position (mm)

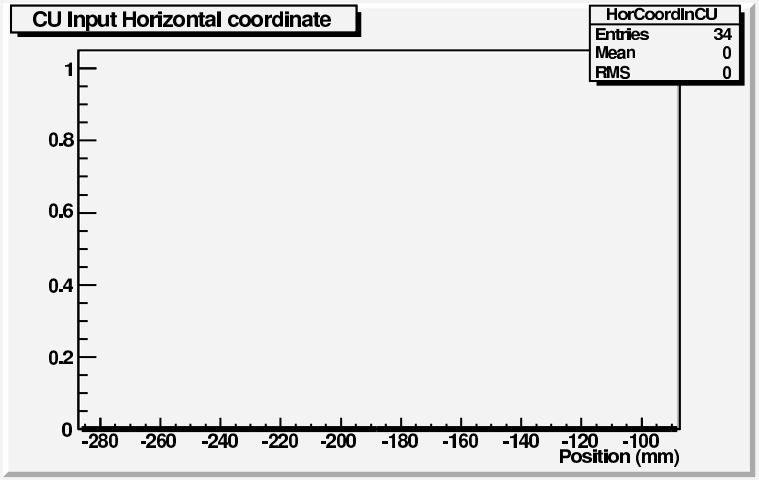

CU Input vertical coordinate
VertCoordInCU
Entries 14
Mean -28.79
RMS 23.76
Position (mm)

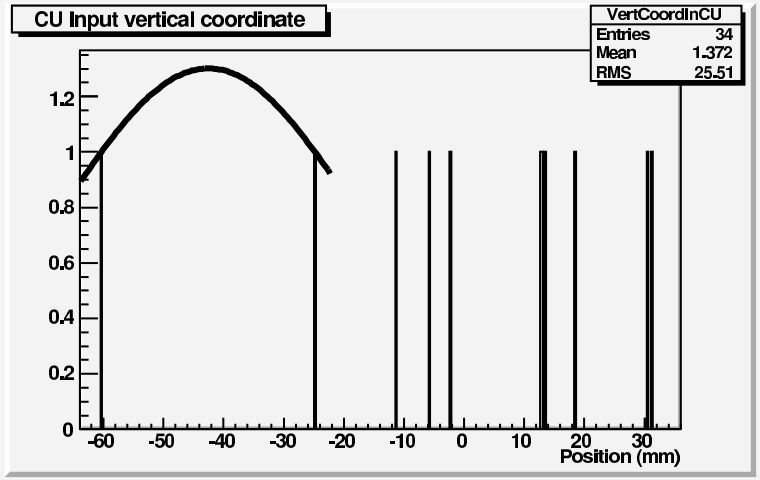

CU Input horizontal angle
HorAngleInCU
Entries 14
Mean 0.01408
RMS 0.005248
Angle (rad)

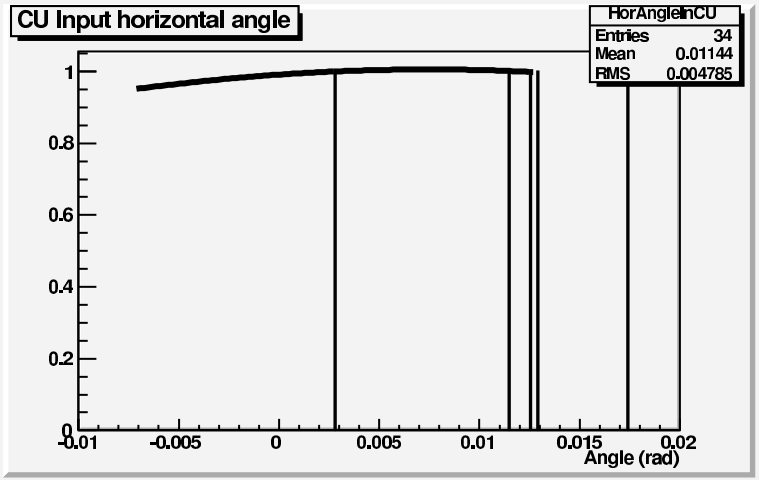

CU Input vertical angle
VertAngleInCU
Entries 14
Mean 0.0009355
RMS 0.005853
Angle (rad)

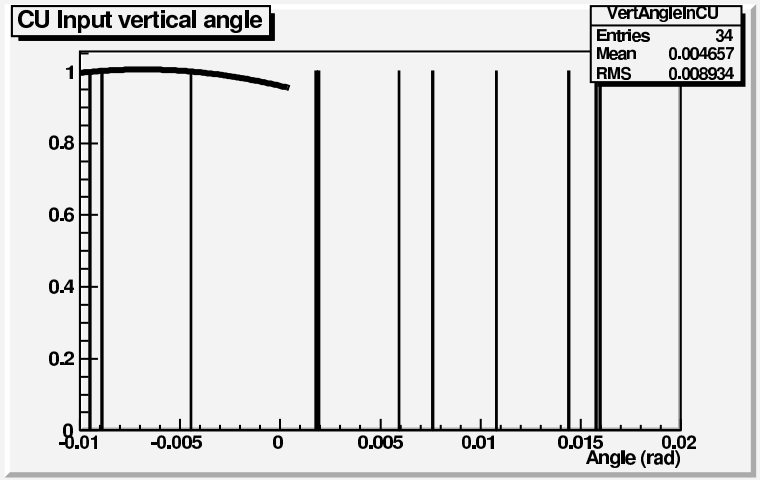

CU Input Beam Spot
SpotCoordInCU
Entries 14
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Position (mm)
Horizontal Position (mm)

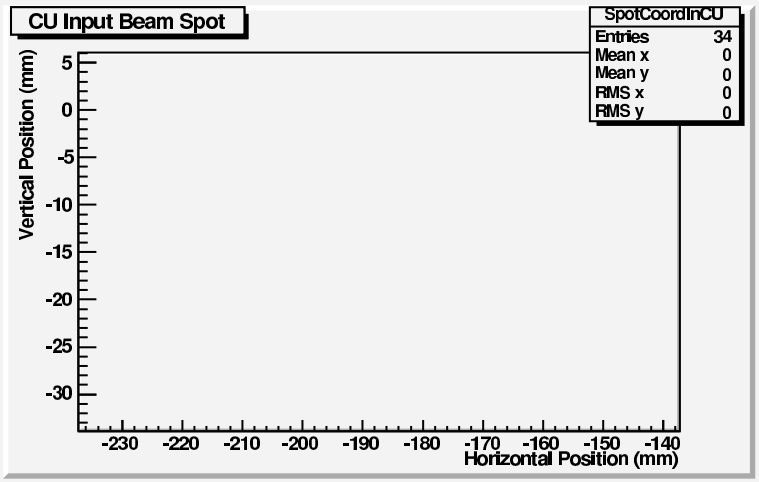

CU Input Beam Spot
SpotAngleInCU
Entries 14
Mean x -0.002108
Mean y 0.01489
RMS x 0.00887
RMS y 0.005756
Vertical Angle (rad)
Horizontal Angle (rad)

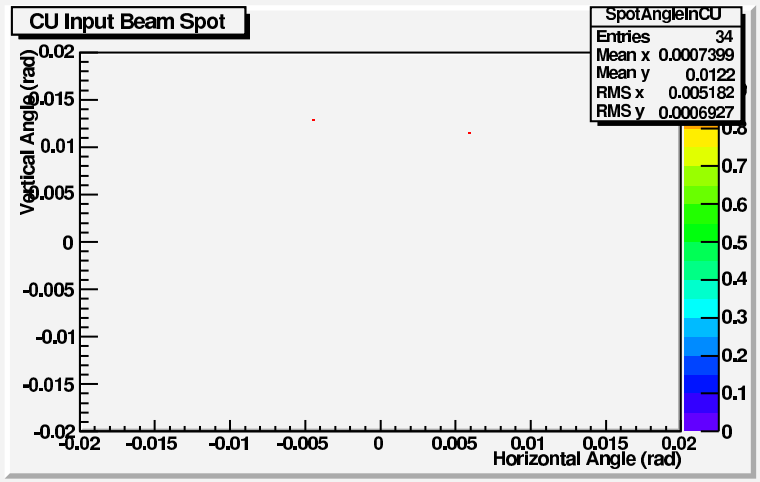

CU Input Horizontal coordinate
HorCoordInCU
Entries 34
Mean 0
RMS 0
Position (mm)

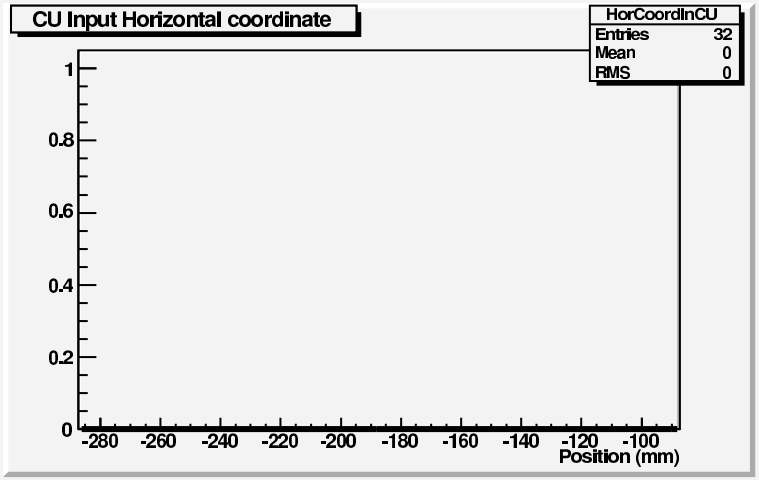

CU Input vertical coordinate
VertCoordInCU
Entries 34
Mean 1.372
RMS 25.51
Position (mm)

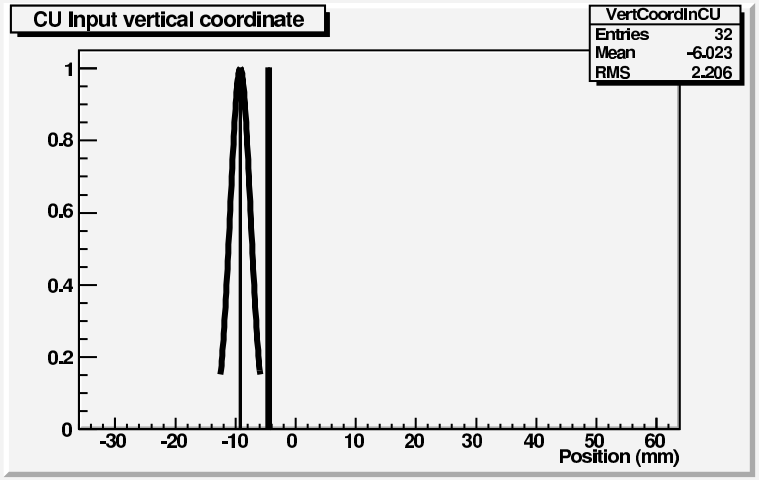

CU Input horizontal angle
HorAngleInCU
Entries 34
Mean 0.01144
RMS 0.004785
Angle (rad)

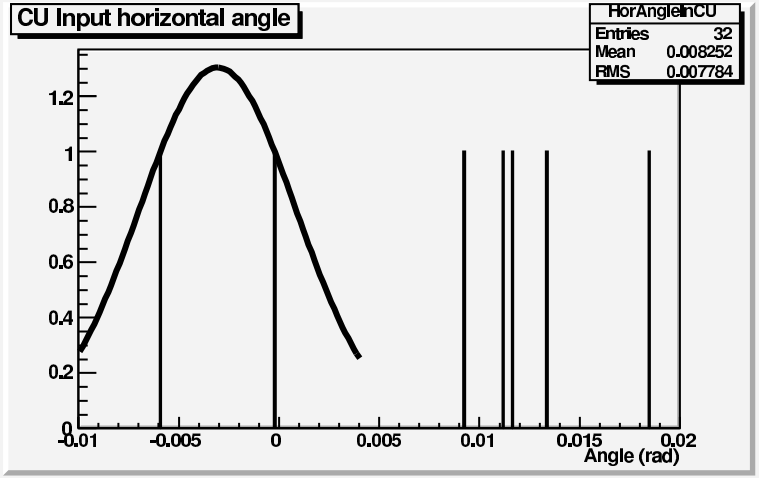

CU Input vertical angle
VertAngleInCU
Entries 34
Mean 0.004657
RMS 0.008934
Angle (rad)

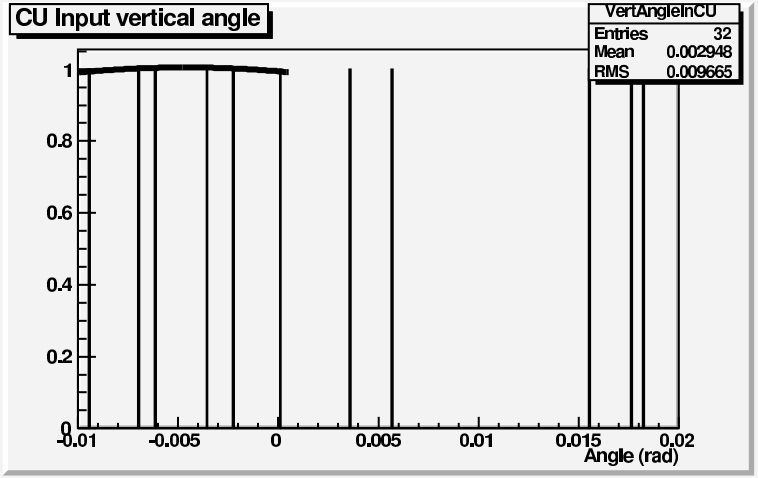

CU Input Beam Spot
SpotCoordInCU
Entries 34
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Position (mm)
Horizontal Position (mm)

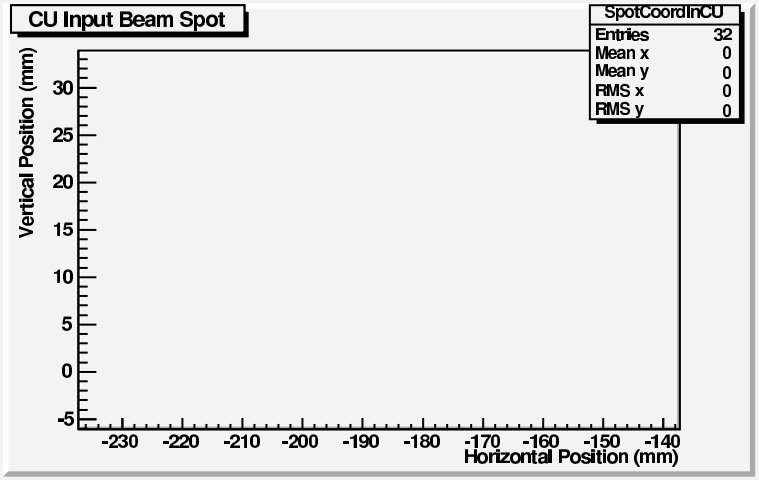

CU Input Beam Spot
SpotAngleInCU
Entries 34
Mean x 0.0007399
Mean y 0.0122
RMS x 0.005182
RMS y 0.0006927
Vertical Angle (rad)
Horizontal Angle (rad)

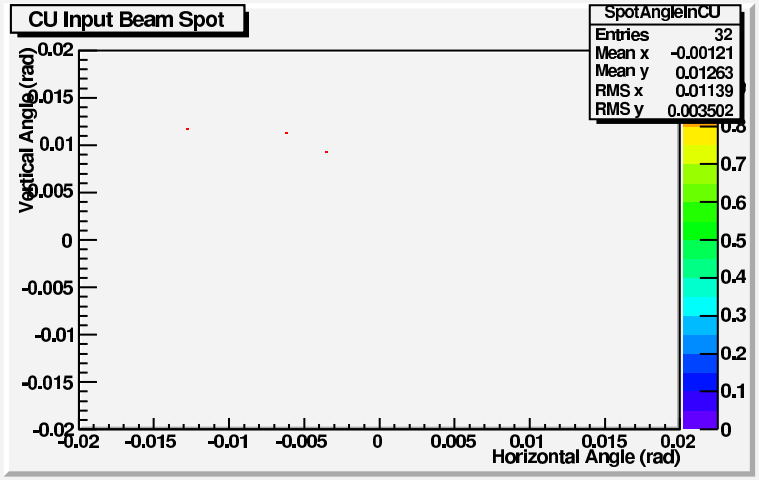

CU Input Horizontal coordinate
HorCoordInCU
Entries 32
Mean 0
RMS 0
Position (mm)

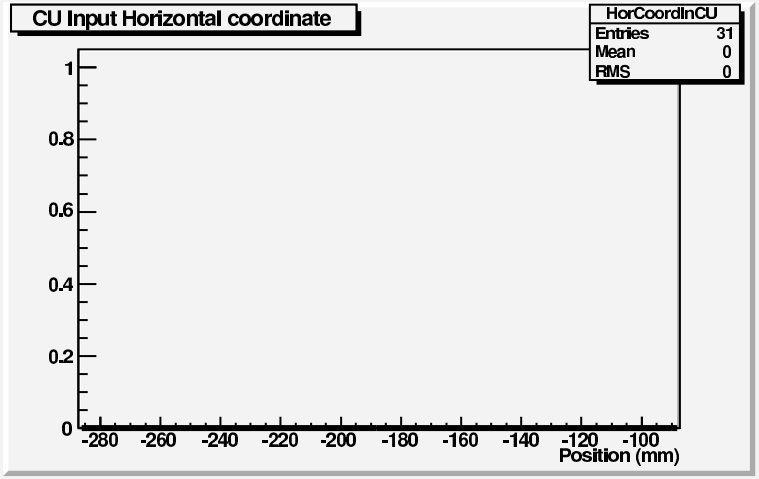

CU Input vertical coordinate
VertCoordInCU
Entries 32
Mean -6.023
RMS 2.206
Position (mm)

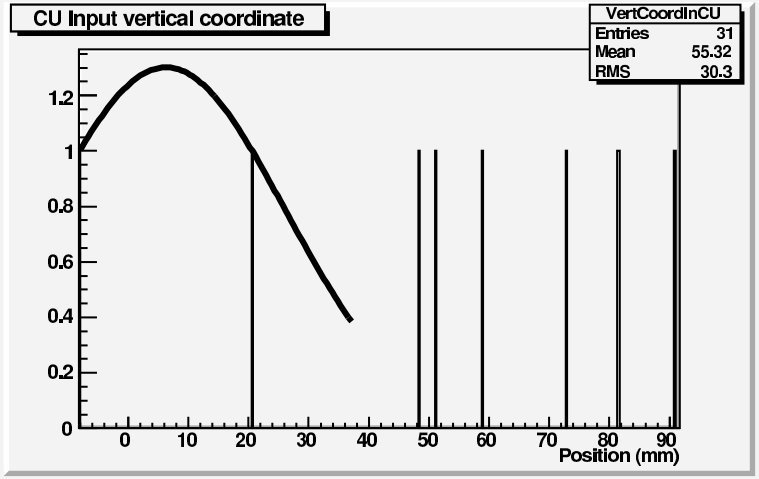

CU Input horizontal angle
HorAngleInCU
Entries 32
Mean 0.008252
RMS 0.007784
Angle (rad)

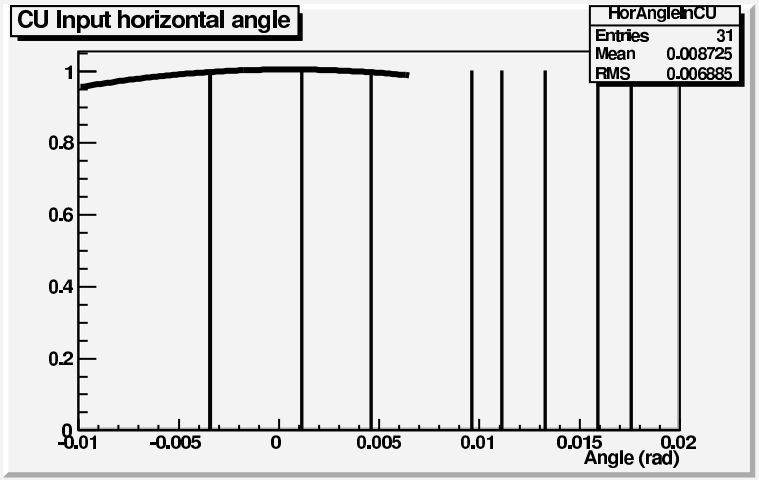

CU Input vertical angle
VertAngleInCU
Entries 32
Mean 0.002948
RMS 0.009665
Angle (rad)

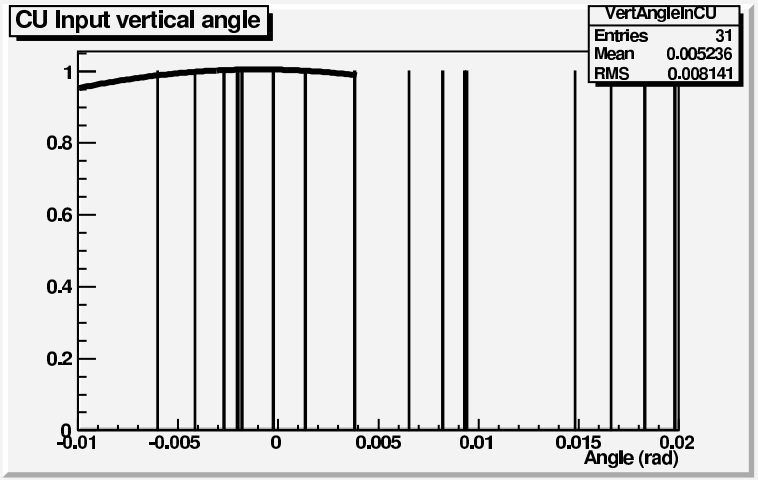

CU Input Beam Spot
SpotCoordInCU
Entries 32
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Position (mm)
Horizontal Position (mm)

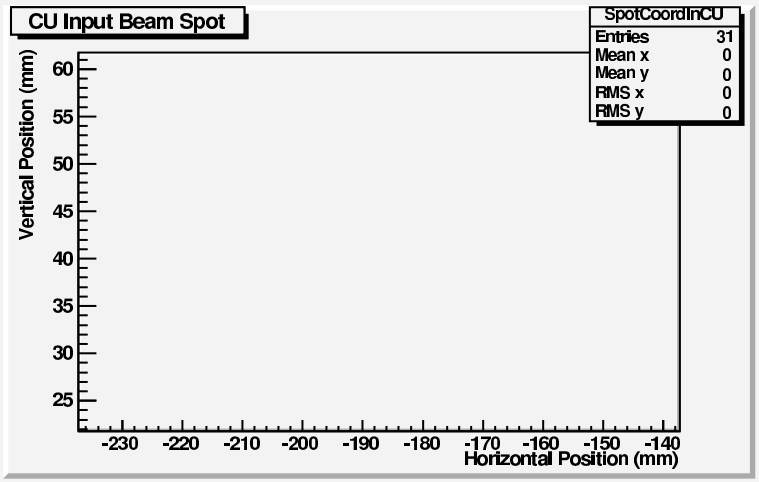

CU Input Beam Spot
SpotAngleInCU
Entries 32
Mean x -0.00121
Mean y 0.01263
RMS x 0.01139
RMS y 0.003502
Vertical Angle (rad)
Horizontal Angle (rad)

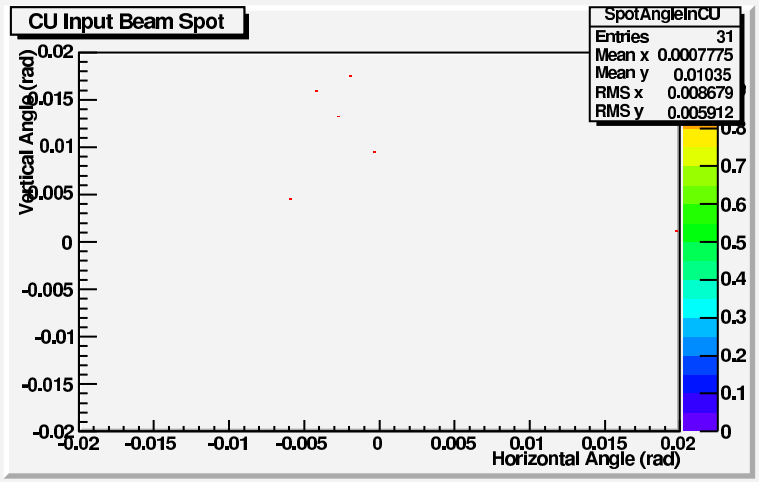

CU Input Horizontal coordinate
HorCoordInCU
Entries 31
Mean 0
RMS 0
Position (mm)

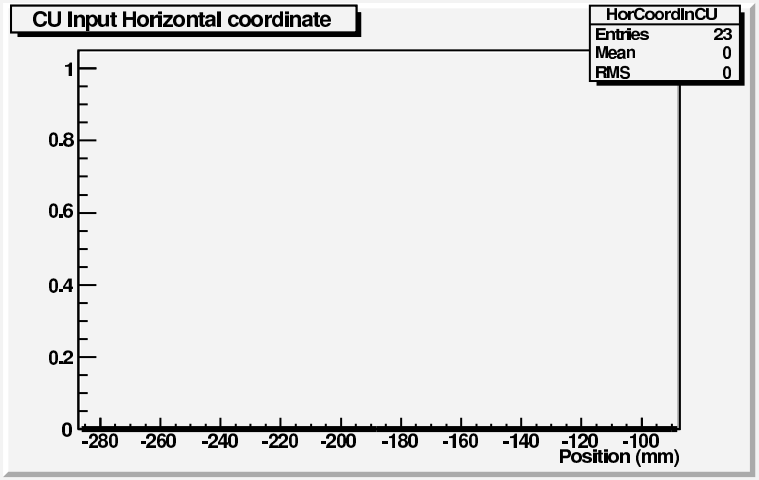

CU Input vertical coordinate
VertCoordInCU
Entries 31
Mean 55.32
RMS 30.3
Position (mm)

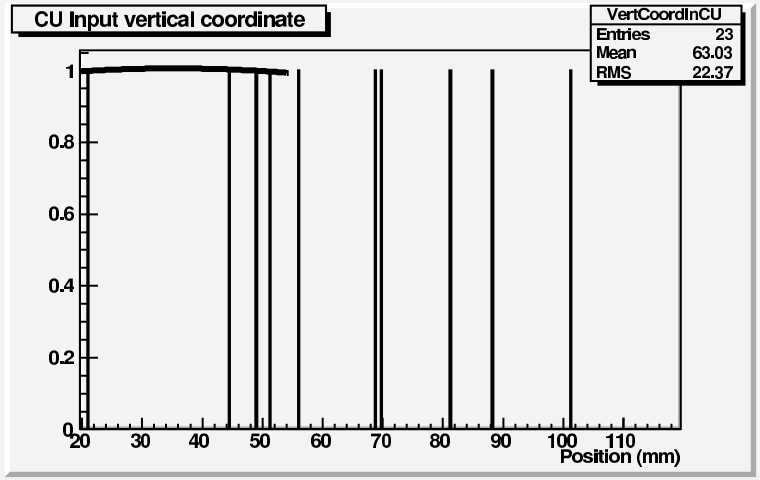

CU Input horizontal angle
HorAngleInCU
Entries 31
Mean 0.008725
RMS 0.006885
Angle (rad)

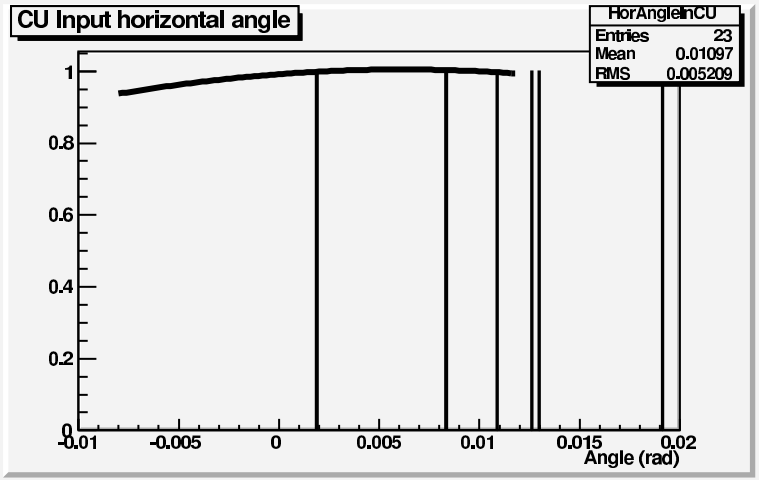

CU Input vertical angle
VertAngleInCU
Entries 31
Mean 0.005236
RMS 0.008141
Angle (rad)

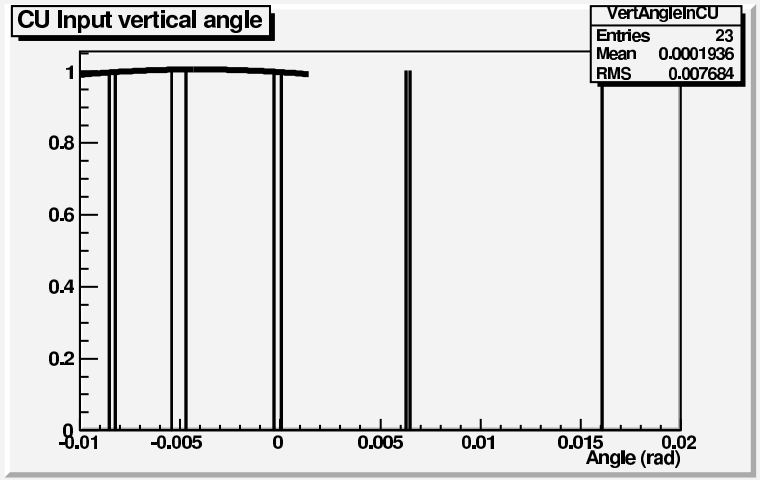

CU Input Beam Spot
SpotCoordInCU
Entries 31
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Position (mm)
Horizontal Position (mm)

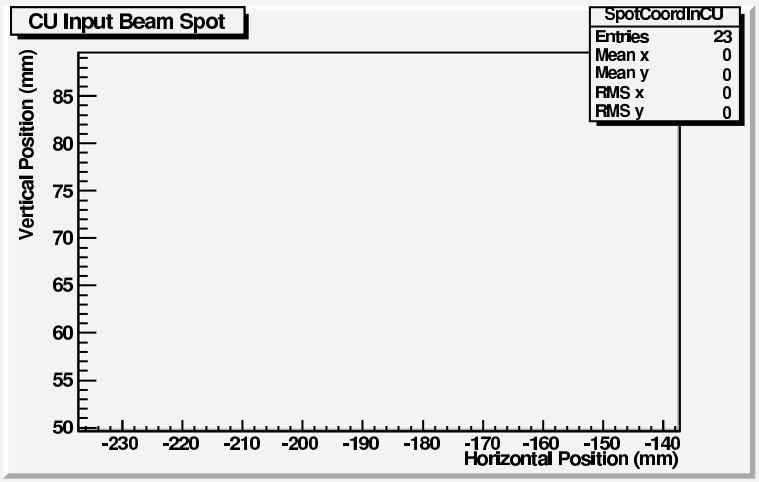

CU Input Beam Spot
SpotAngleInCU
Entries 31
Mean x 0.0007775
Mean y 0.01035
RMS x 0.008679
RMS y 0.005912
Vertical Angle (rad)
Horizontal Angle (rad)

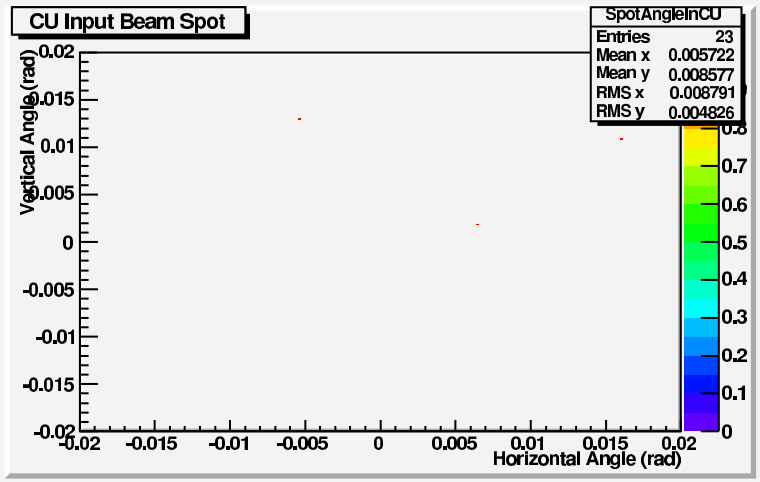

CU Input Horizontal coordinate
HorCoordInCU
Entries 23
Mean 0
RMS 0
Position (mm)

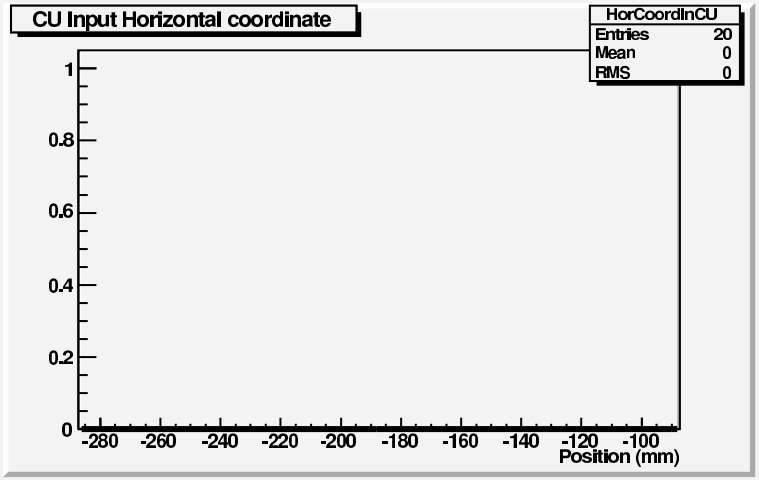

CU Input vertical coordinate
VertCoordInCU
Entries 23
Mean 63.03
RMS 22.37
Position (mm)

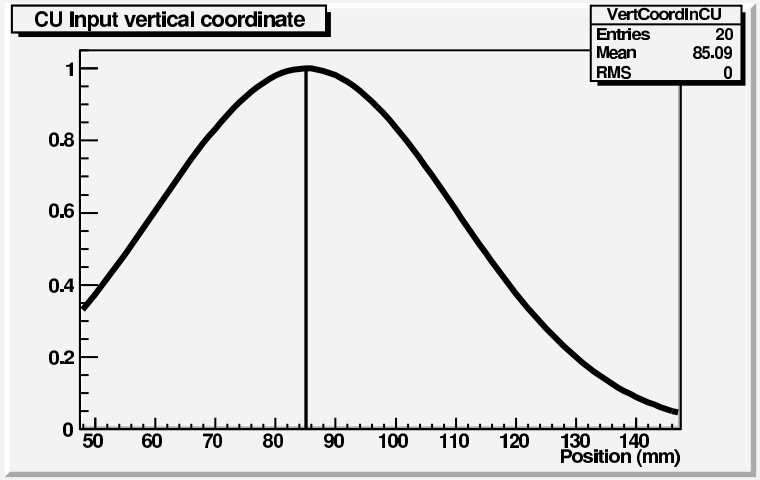

CU Input horizontal angle
HorAngleInCU
Entries 23
Mean 0.01097
RMS 0.005209
Angle (rad)

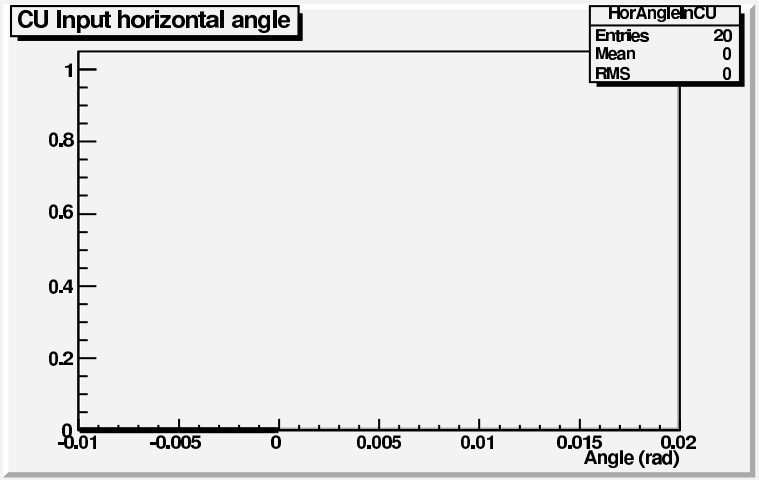

CU Input vertical angle
VertAngleInCU
Entries 23
Mean 0.0001936
RMS 0.007684
Angle (rad)

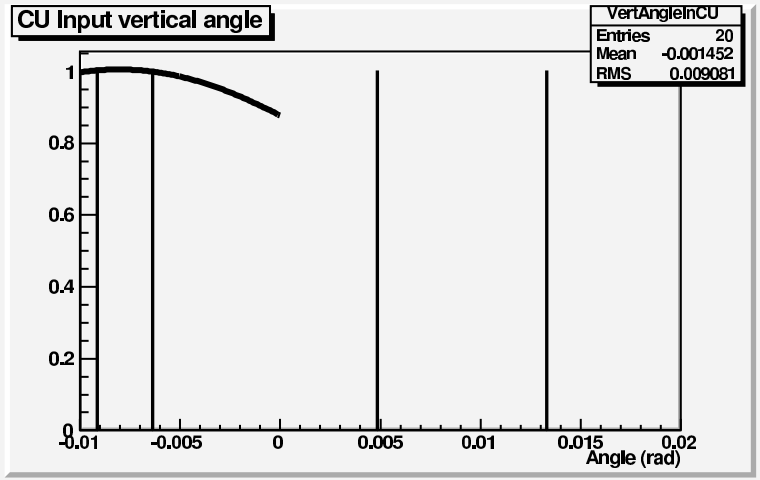

CU Input Beam Spot
SpotCoordInCU
Entries 23
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Position (mm)
Horizontal Position (mm)

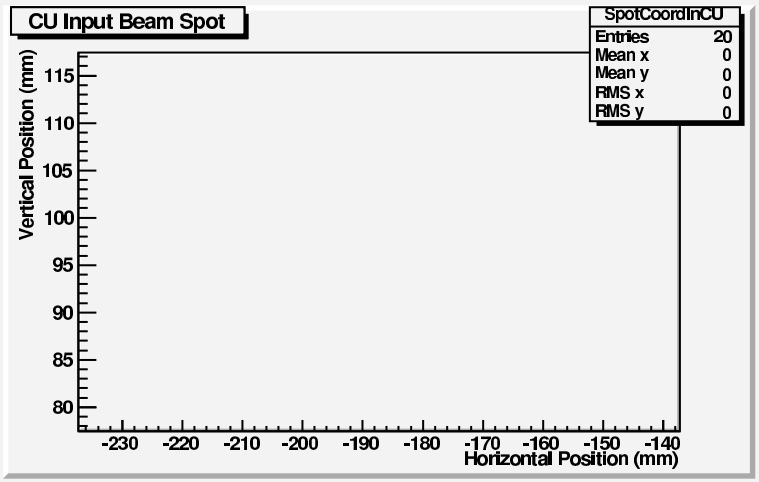

CU Input Beam Spot
SpotAngleInCU
Entries 23
Mean x 0.005722
Mean y 0.008577
RMS x 0.008791
RMS y 0.004826
Vertical Angle (rad)
Horizontal Angle (rad)

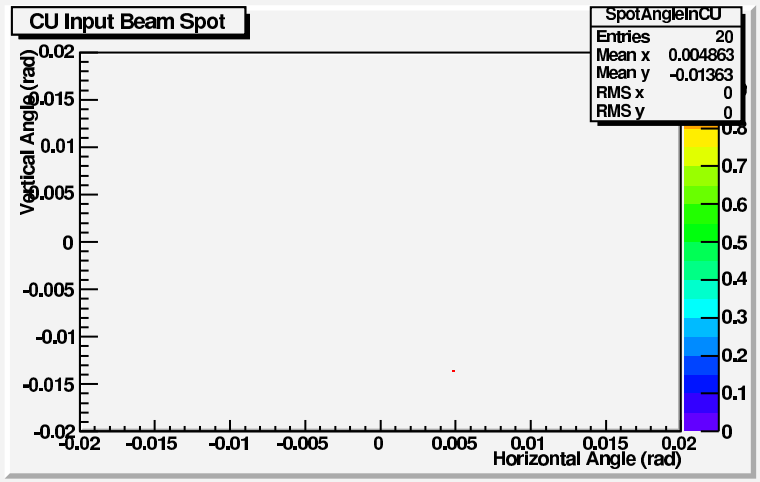

CU Input Horizontal coordinate
HorCoordInCU
Entries 20
Mean 0
RMS 0
Position (mm)

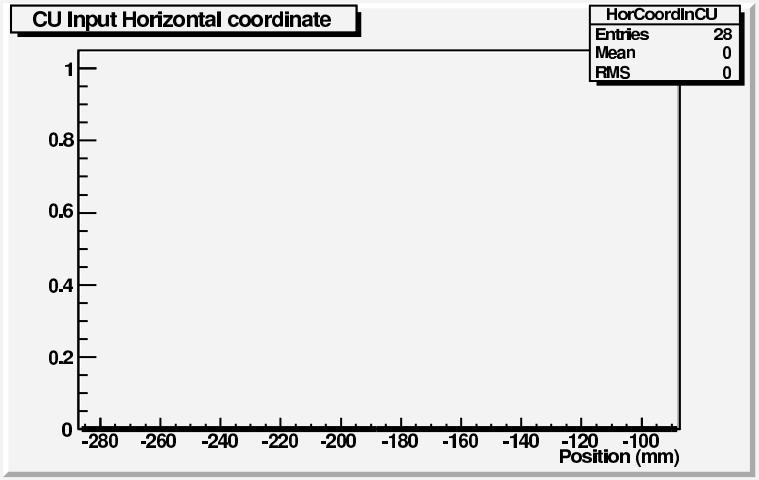

CU Input vertical coordinate
VertCoordInCU
Entries 20
Mean 85.09
RMS 0
Position (mm)

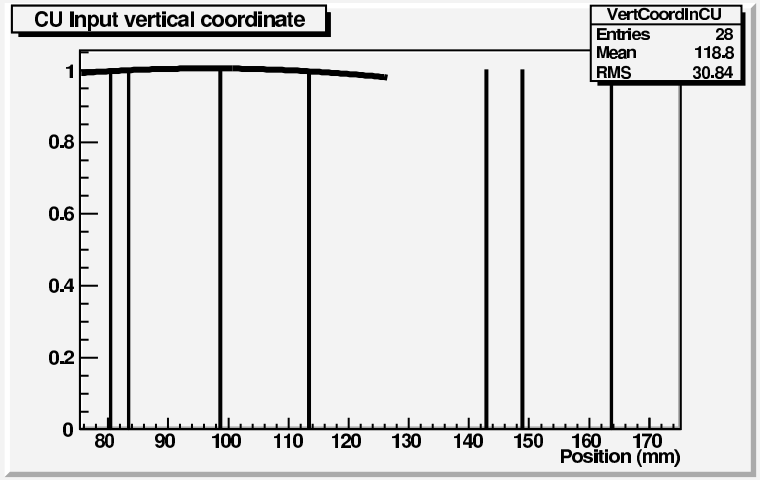

CU Input horizontal angle
HorAngleInCU
Entries 20
Mean 0
RMS 0
Angle (rad)

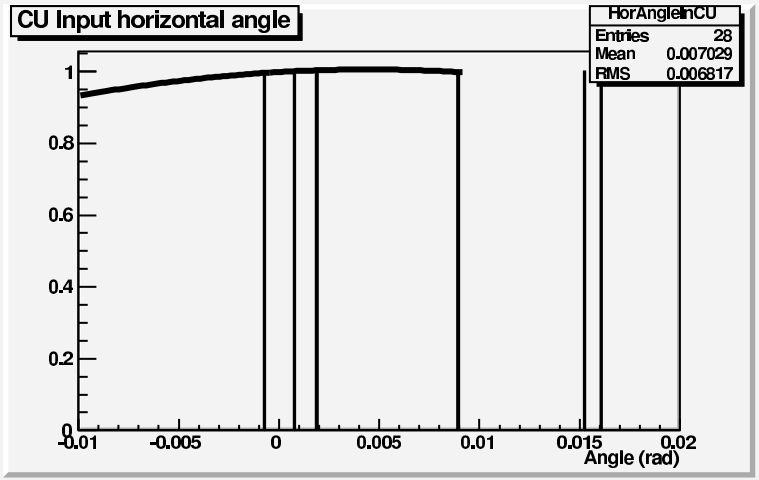

CU Input vertical angle
VertAngleInCU
Entries 20
Mean -0.001452
RMS 0.009081
Angle (rad)

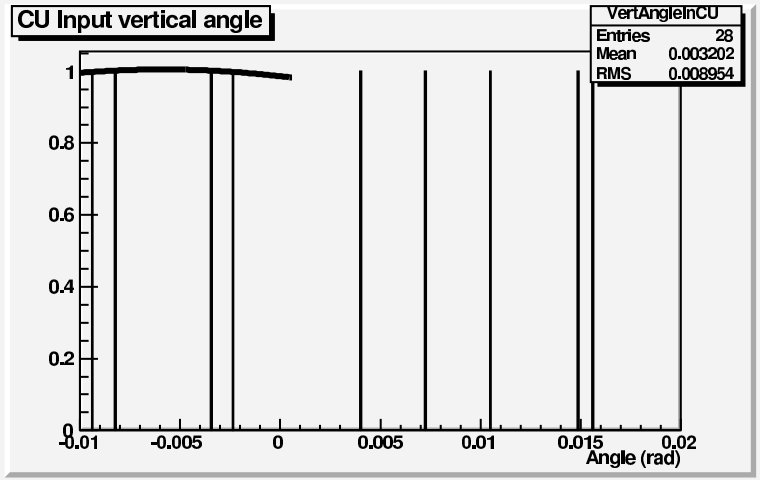

CU Input Beam Spot
SpotCoordInCU
Entries 20
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Position (mm)
Horizontal Position (mm)

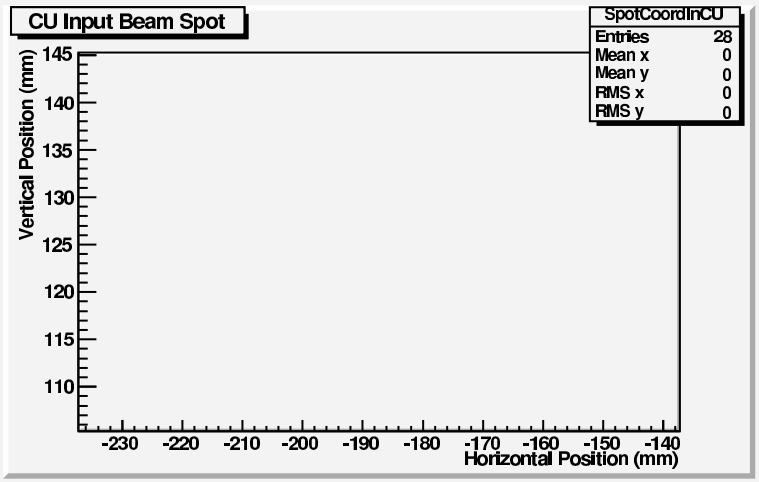

CU Input Beam Spot
SpotAngleInCU
Entries 20
Mean x 0.004863
Mean y -0.01363
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

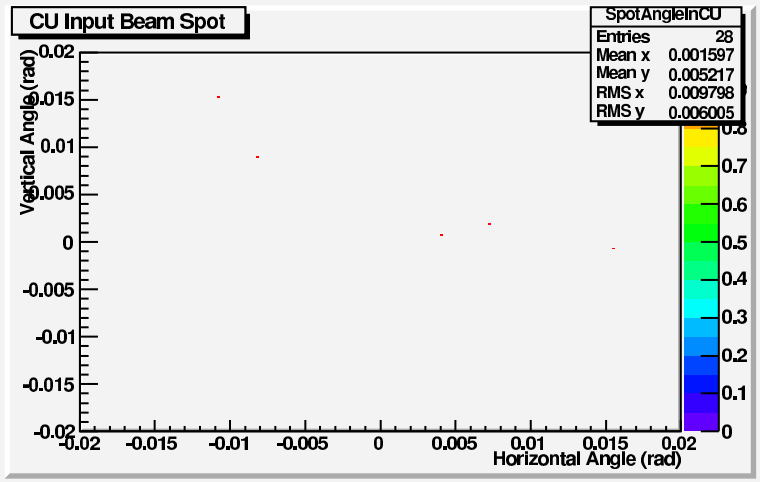

CU Input Horizontal coordinate
HorCoordInCU
Entries 28
Mean 0
RMS 0
Position (mm)

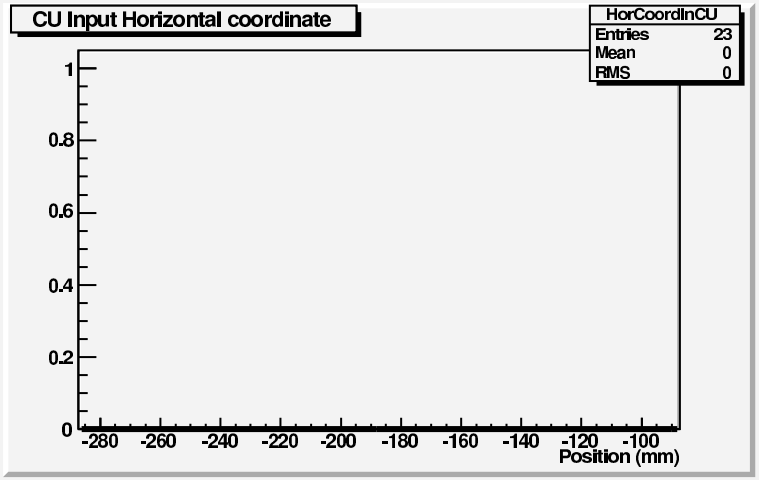

CU Input vertical coordinate
VertCoordInCU
Entries 28
Mean 118.8
RMS 30.84
Position (mm)

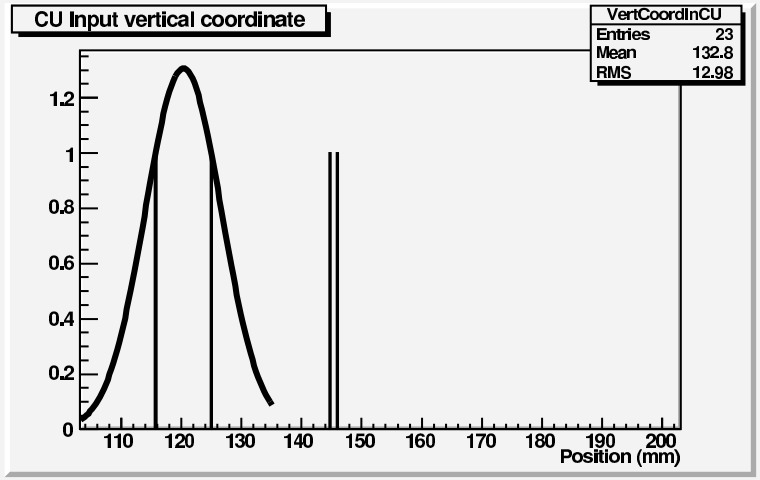

CU Input horizontal angle
HorAngleInCU
Entries 28
Mean 0.007029
RMS 0.006817
Angle (rad)

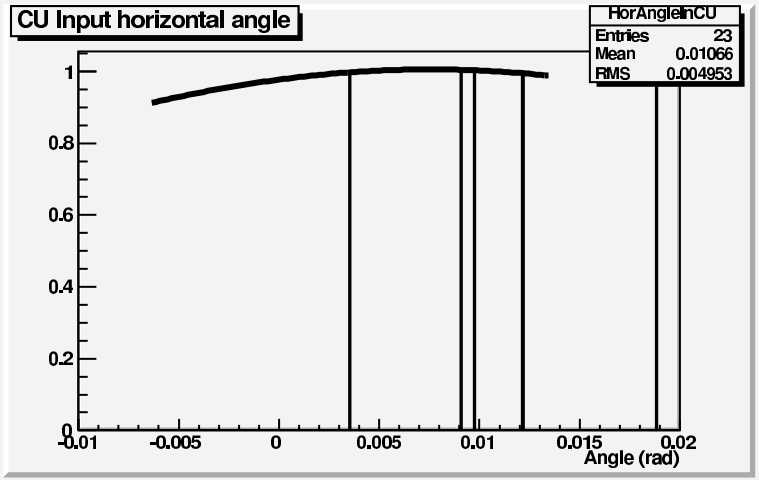

CU Input vertical angle
VertAngleInCU
Entries 28
Mean 0.003202
RMS 0.008954
Angle (rad)

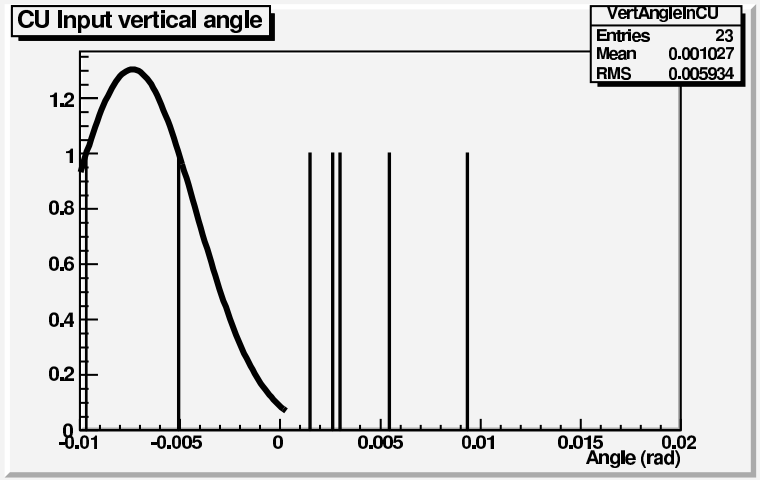

CU Input Beam Spot
SpotCoordInCU
Entries 28
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Position (mm)
Horizontal Position (mm)

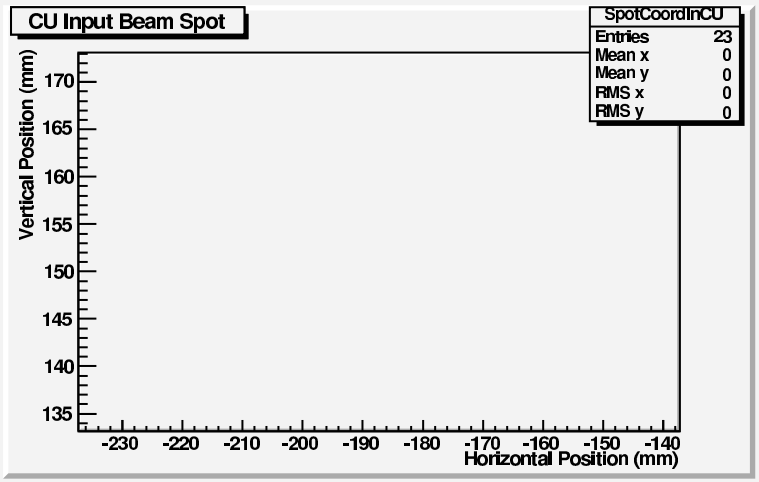

CU Input Beam Spot
SpotAngleInCU
Entries 28
Mean x 0.001597
Mean y 0.005217
RMS x 0.009798
RMS y 0.006005
Vertical Angle (rad)
Horizontal Angle (rad)

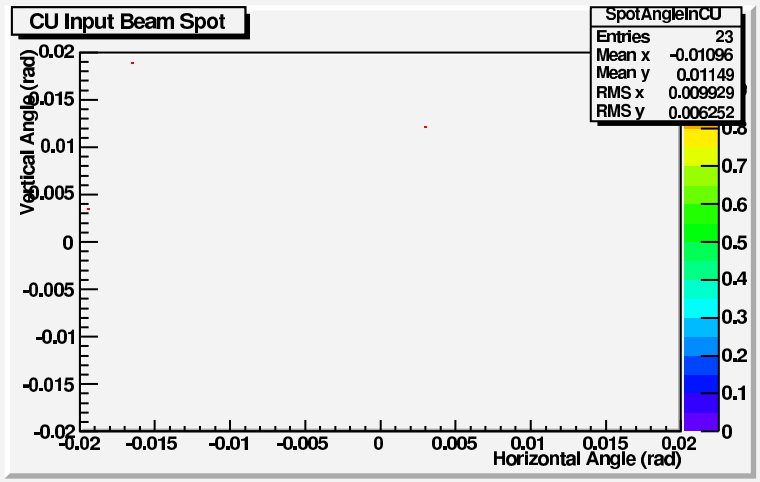

CU Input Horizontal coordinate
HorCoordInCU
Entries 23
Mean 0
RMS 0
Position (mm)

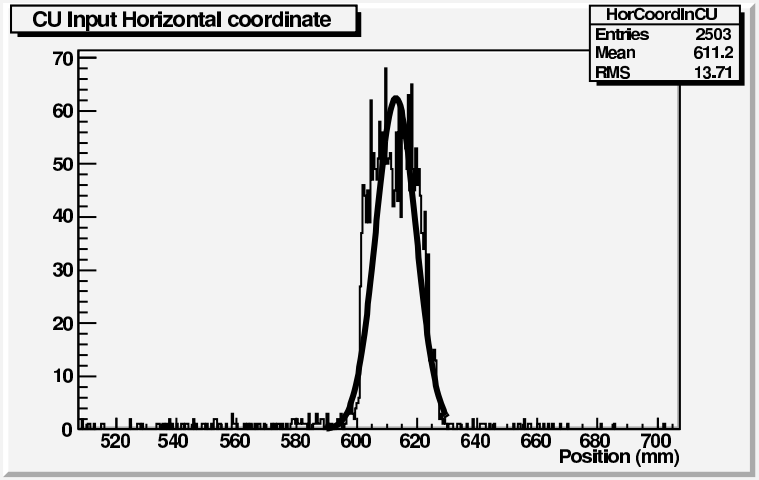

CU Input vertical coordinate
VertCoordInCU
Entries 23
Mean 132.8
RMS 12.98
Position (mm)

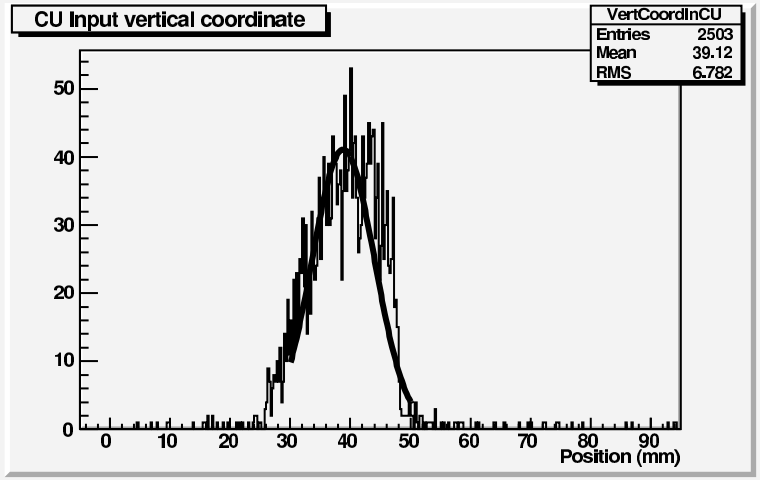

CU Input horizontal angle
HorAngleInCU
Entries 23
Mean 0.01066
RMS 0.004953
Angle (rad)

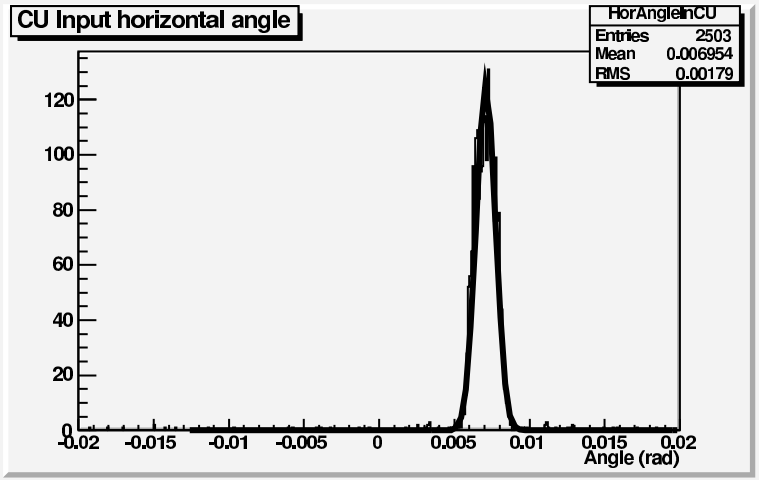

CU Input vertical angle
VertAngleInCU
Entries 23
Mean 0.001027
RMS 0.005934
Angle (rad)

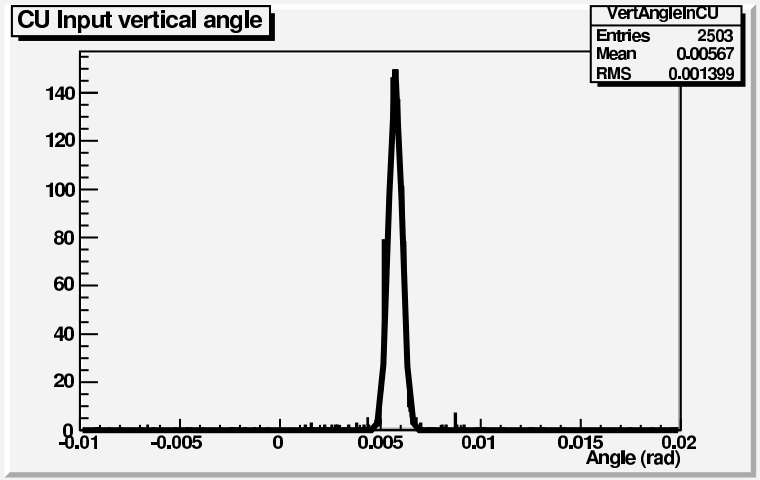

CU Input Beam Spot
SpotCoordInCU
Entries 23
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Position (mm)
Horizontal Position (mm)

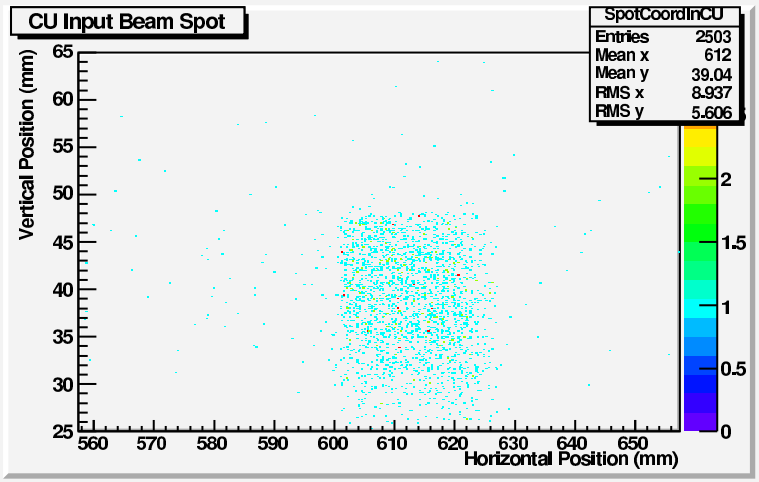

CU Input Beam Spot
SpotAngleInCU
Entries 23
Mean x -0.01096
Mean y 0.01149
RMS x 0.009929
RMS y 0.006252
Vertical Angle (rad)
Horizontal Angle (rad)

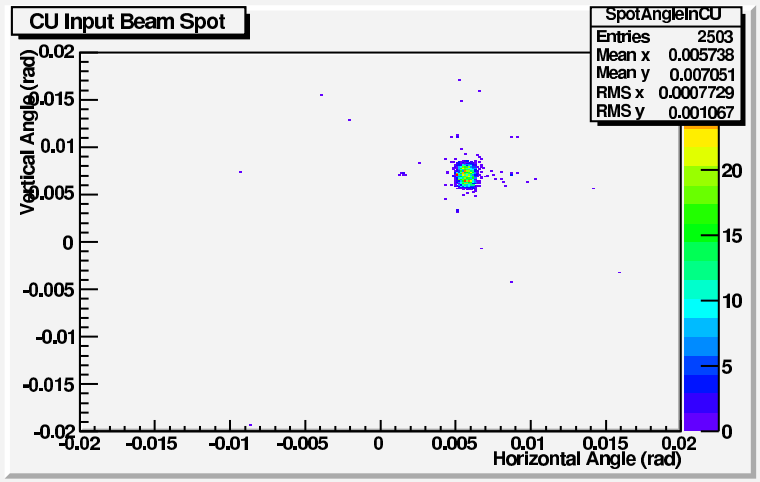

CU Input Horizontal coordinate
HorCoordInCU
Entries 2503
Mean 611.2
RMS 13.71
Position (mm)

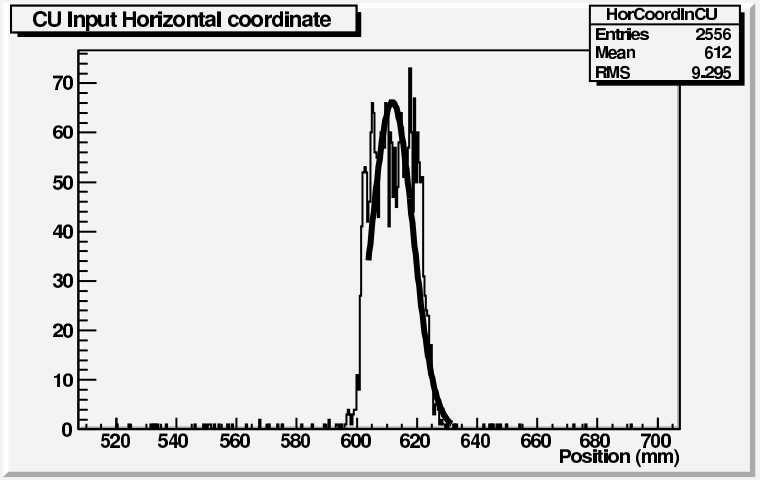

CU Input vertical coordinate
VertCoordInCU
Entries 2503
Mean 39.12
RMS 6.782
Position (mm)

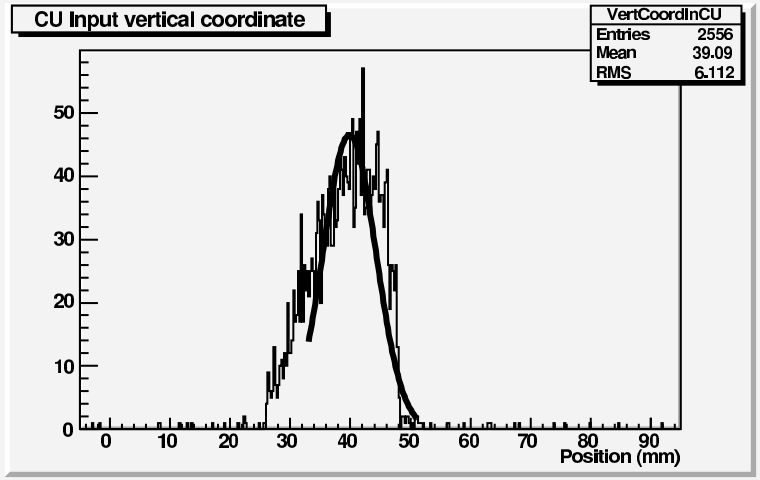

CU Input horizontal angle
HorAngleInCU
Entries 2503
Mean 0.006954
RMS 0.00179
Angle (rad)

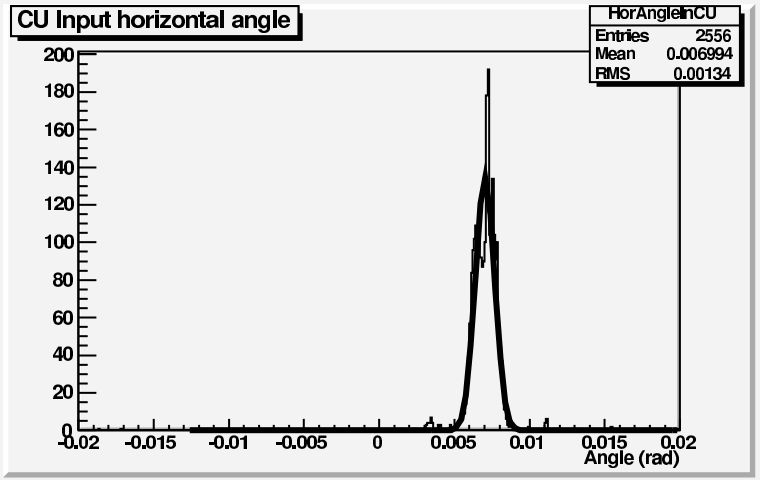

CU Input vertical angle
VertAngleInCU
Entries 2503
Mean 0.00567
RMS 0.001399
Angle (rad)

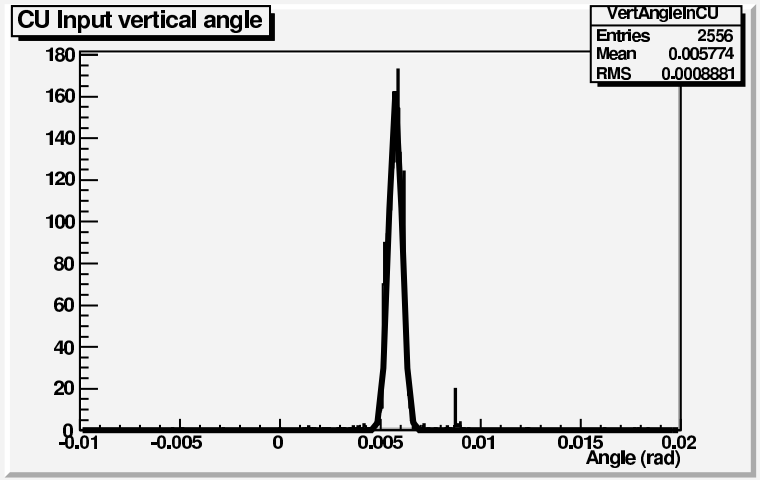

CU Input Beam Spot
SpotCoordInCU
Entries 2503
Mean x 612
Mean y 39.04
RMS x 8.937
RMS y 5.606
Vertical Position (mm)
Horizontal Position (mm)

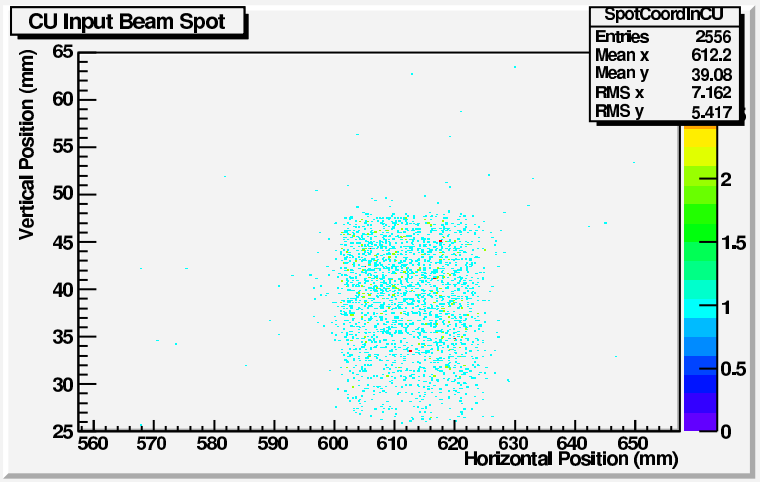

CU Input Beam Spot
SpotAngleInCU
Entries 2503
Mean x 0.005738
Mean y 0.007051
RMS x 0.0007729
RMS y 0.001067
Vertical Angle (rad)
Horizontal Angle (rad)

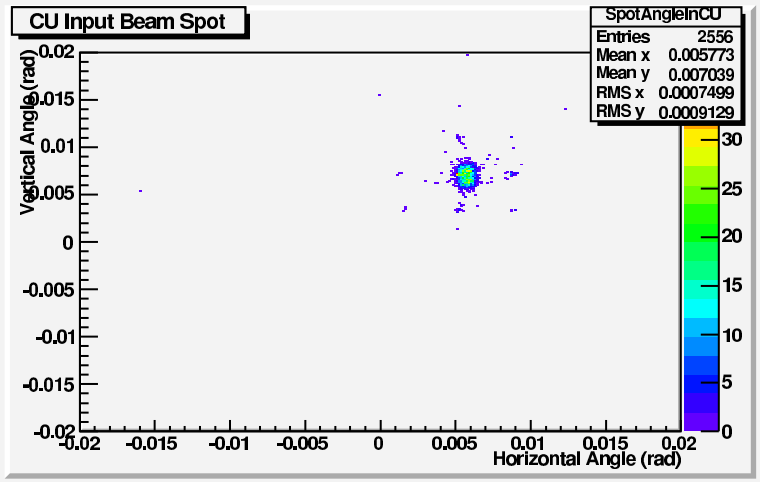

CU Input Horizontal coordinate
HorCoordInCU
Entries 2556
Mean 612
RMS 9.295
Position (mm)

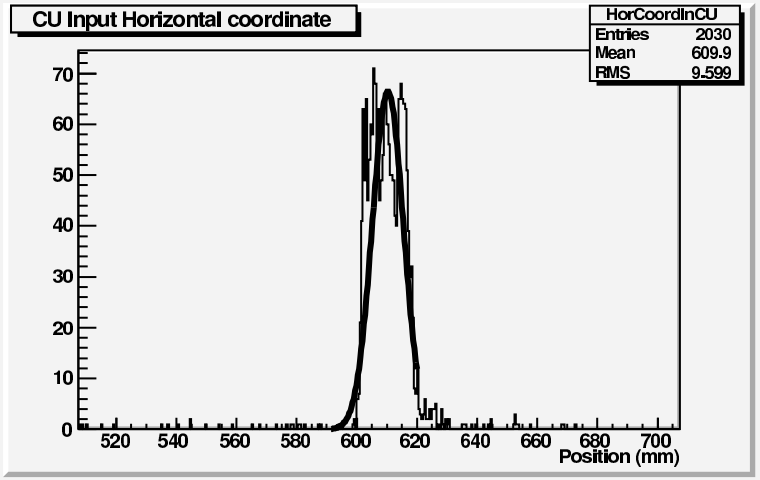

CU Input vertical coordinate
VertCoordInCU
Entries 2556
Mean 39.09
RMS 6.112
Position (mm)

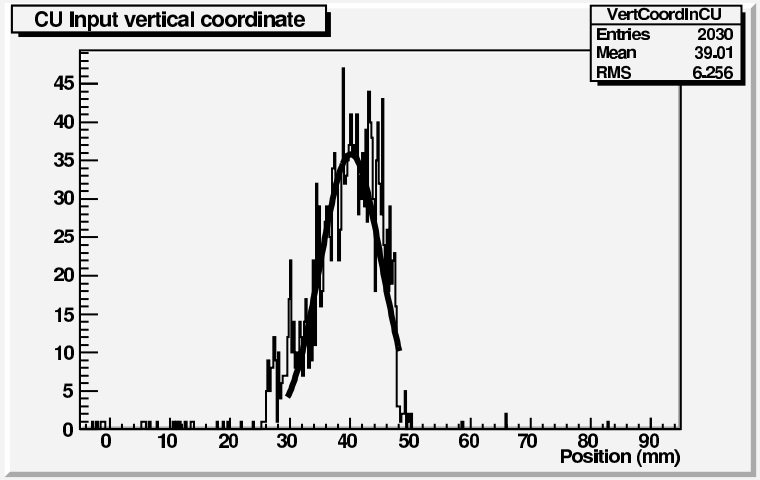

CU Input horizontal angle
HorAngleInCU
Entries 2556
Mean 0.006994
RMS 0.00134
Angle (rad)

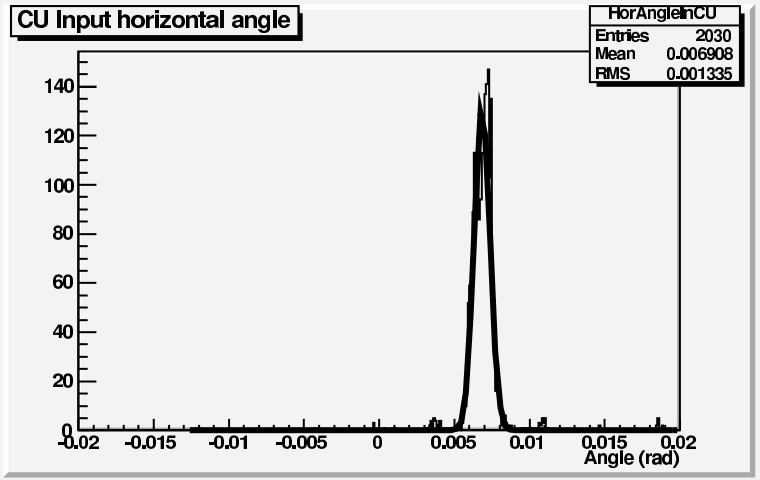

CU Input vertical angle
VertAngleInCU
Entries 2556
Mean 0.005774
RMS 0.0008881
Angle (rad)

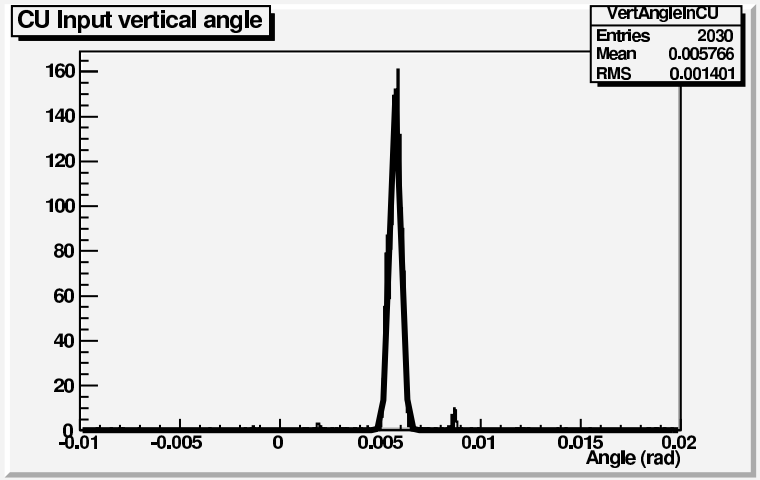

CU Input Beam Spot
SpotCoordInCU
Entries 2556
Mean x 612.2
Mean y 39.08
RMS x 7.162
RMS y 5.417
Vertical Position (mm)
Horizontal Position (mm)

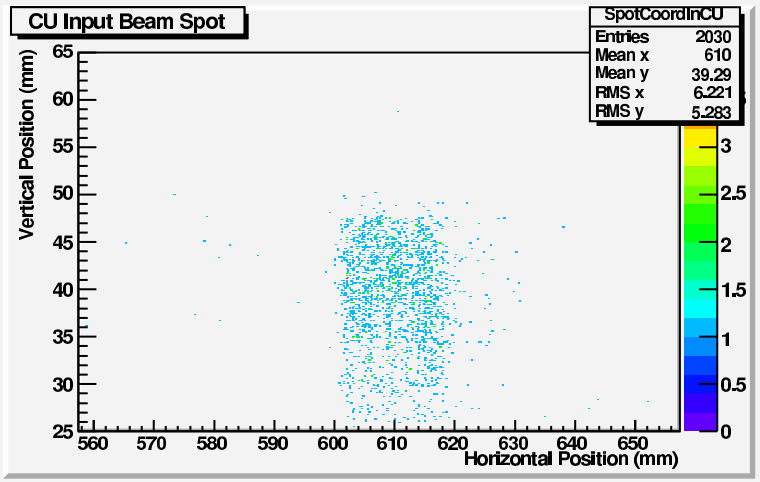

CU Input Beam Spot
SpotAngleInCU
Entries 2556
Mean x 0.005773
Mean y 0.007039
RMS x 0.0007499
RMS y 0.0009129
Vertical Angle (rad)
Horizontal Angle (rad)

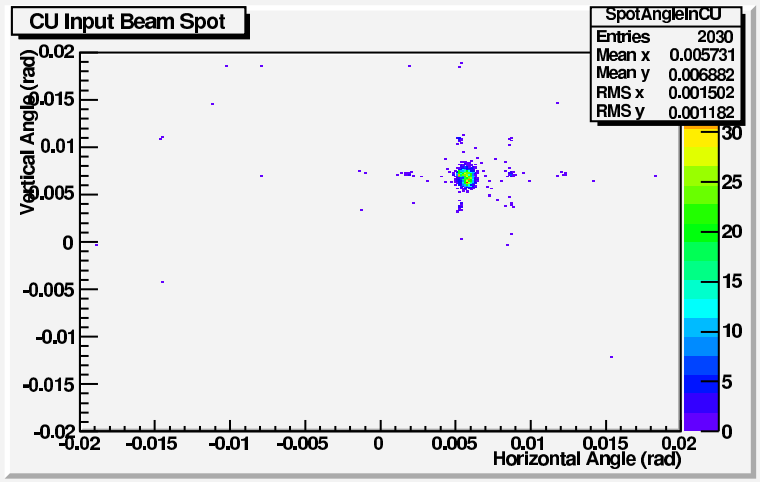

CU Input Horizontal coordinate
HorCoordInCU
Entries 2030
Mean 609.9
RMS 9.599
Position (mm)

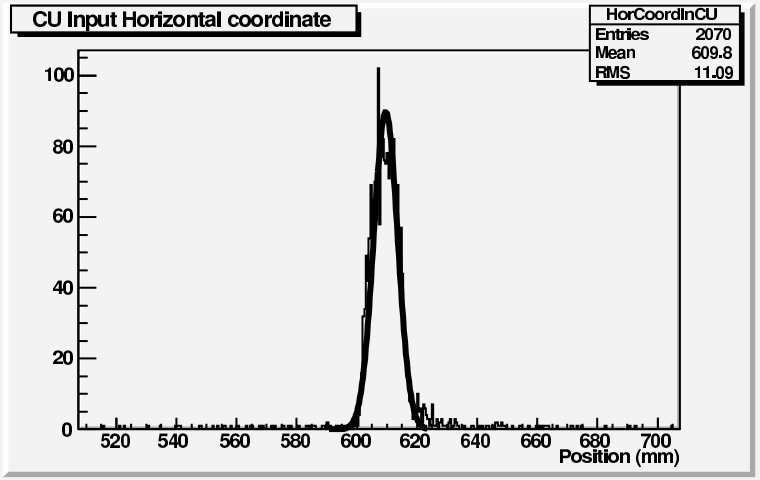

CU Input vertical coordinate
VertCoordInCU
Entries 2030
Mean 39.01
RMS 6.256
Position (mm)

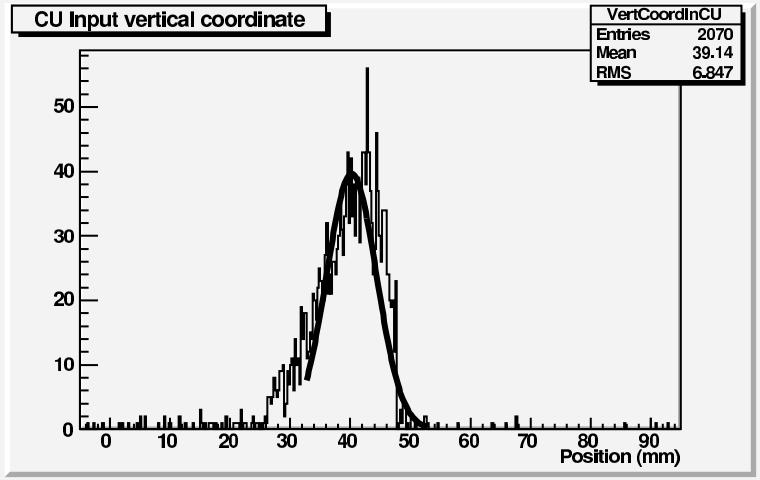

CU Input horizontal angle
HorAngleInCU
Entries 2030
Mean 0.006908
RMS 0.001335
Angle (rad)

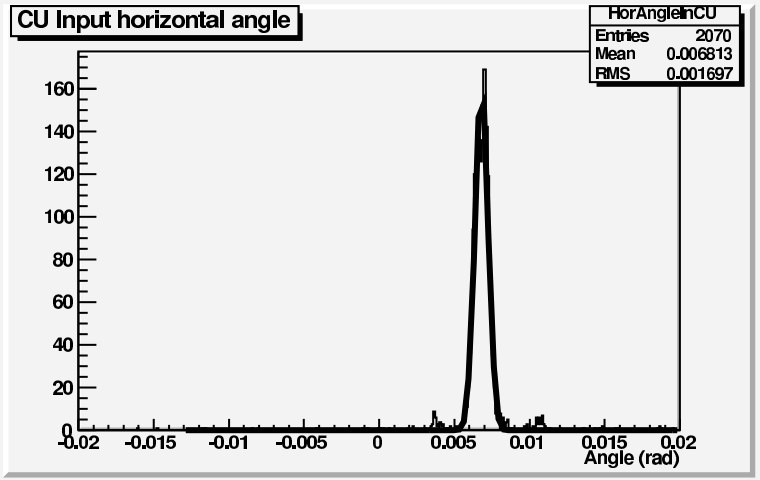

CU Input vertical angle
VertAngleInCU
Entries 2030
Mean 0.005766
RMS 0.001401
Angle (rad)

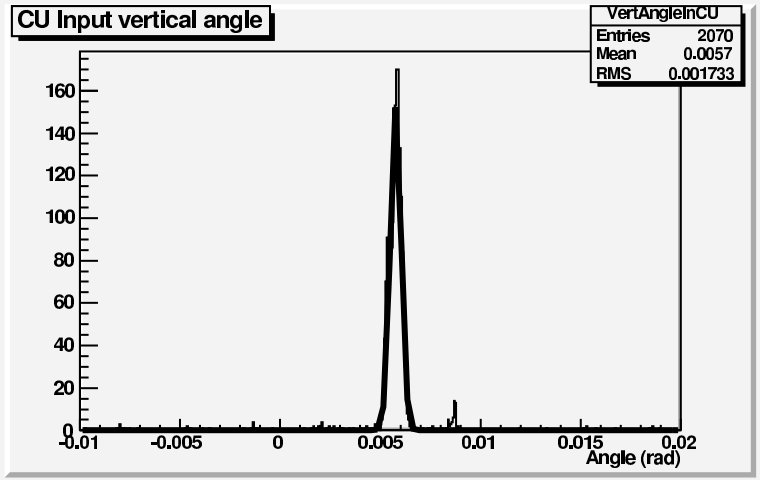

CU Input Beam Spot
SpotCoordInCU
Entries 2030
Mean x 610
Mean y 39.29
RMS x 6.221
RMS y 5.283
Vertical Position (mm)
Horizontal Position (mm)

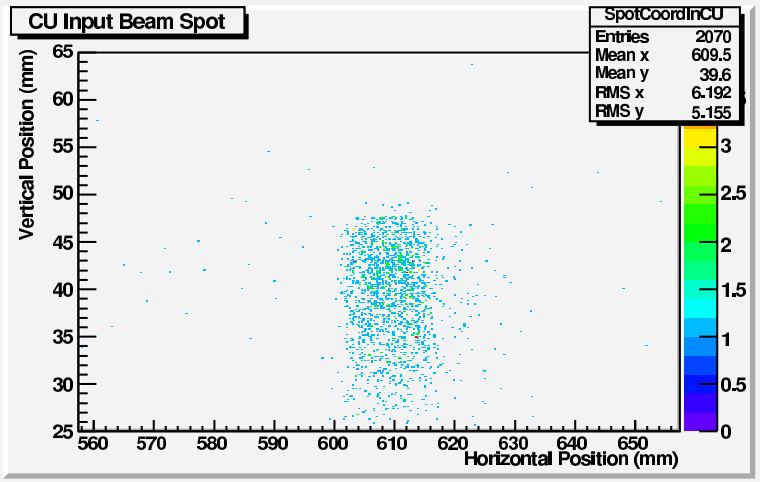

CU Input Beam Spot
SpotAngleInCU
Entries 2030
Mean x 0.005731
Mean y 0.006882
RMS x 0.001502
RMS y 0.001182
Vertical Angle (rad)
Horizontal Angle (rad)

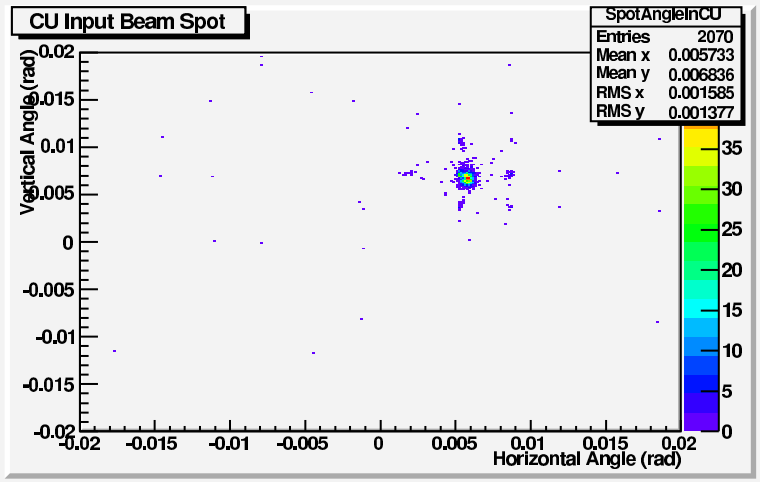

CU Input Horizontal coordinate
HorCoordInCU
Entries 2070
Mean 609.8
RMS 11.09
Position (mm)

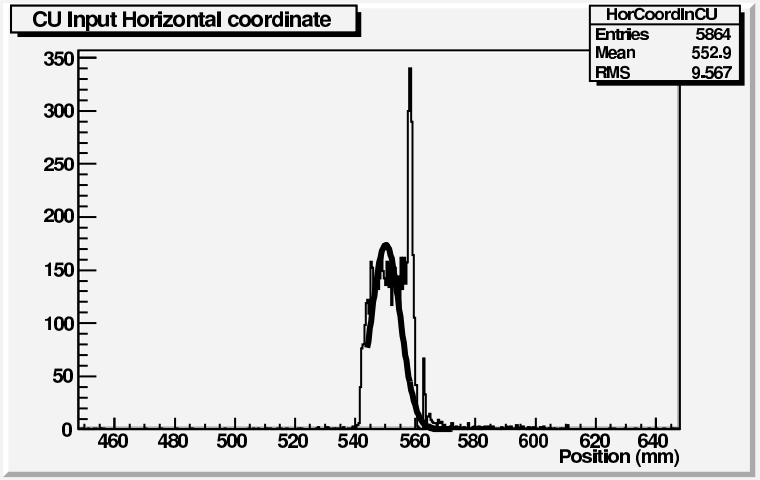

CU Input vertical coordinate
VertCoordInCU
Entries 2070
Mean 39.14
RMS 6.847
Position (mm)

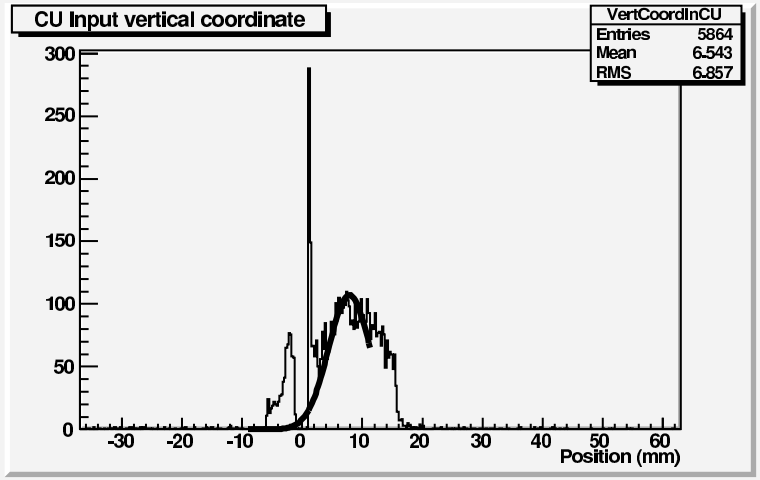

CU Input horizontal angle
HorAngleInCU
Entries 2070
Mean 0.006813
RMS 0.001697
Angle (rad)

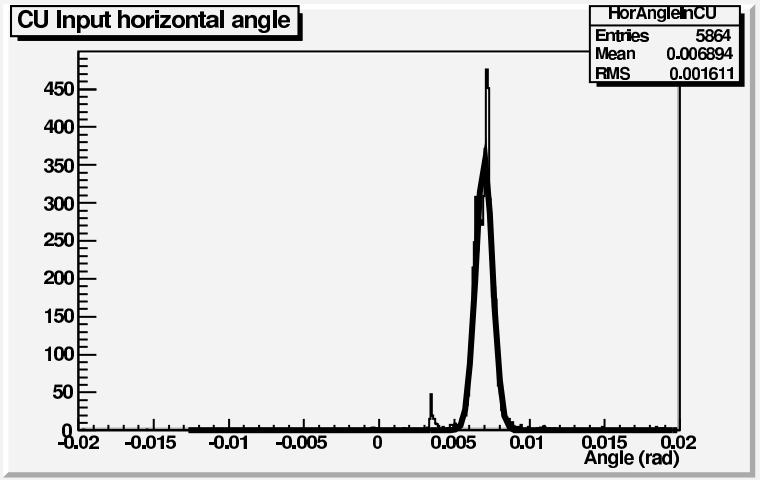

CU Input vertical angle
VertAngleInCU
Entries 2070
Mean 0.0057
RMS 0.001733
Angle (rad)

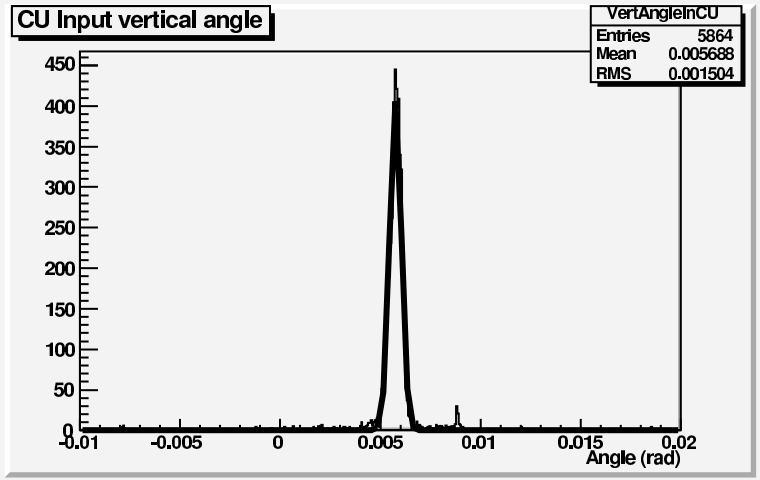

CU Input Beam Spot
SpotCoordInCU
Entries 2070
Mean x 609.5
Mean y 39.6
RMS x 6.192
RMS y 5.155
Vertical Position (mm)
Horizontal Position (mm)

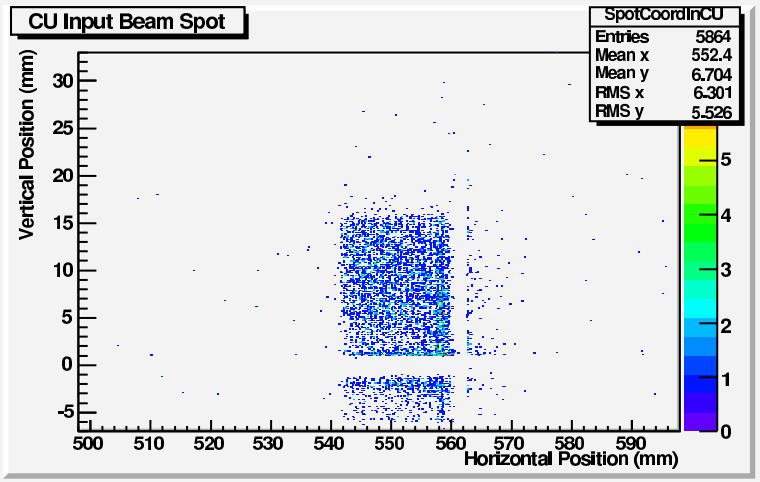

CU Input Beam Spot
SpotAngleInCU
Entries 2070
Mean x 0.005733
Mean y 0.006836
RMS x 0.001585
RMS y 0.001377
Vertical Angle (rad)
Horizontal Angle (rad)

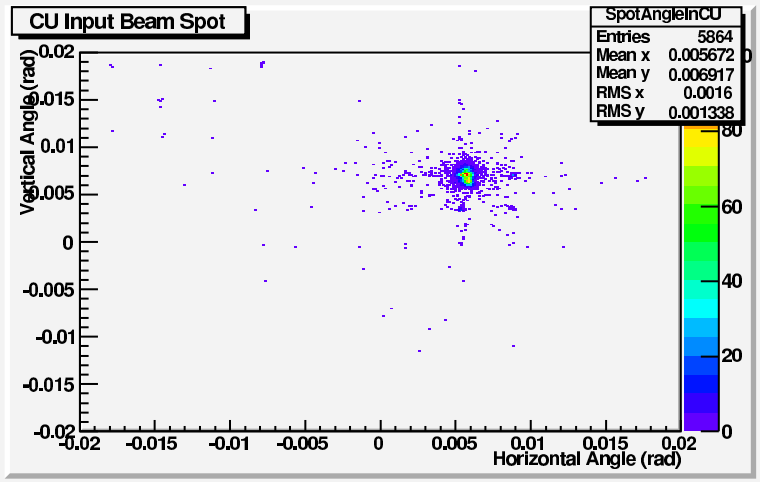

CU Input Horizontal coordinate
HorCoordInCU
Entries 5864
Mean 552.9
RMS 9.567
Position (mm)

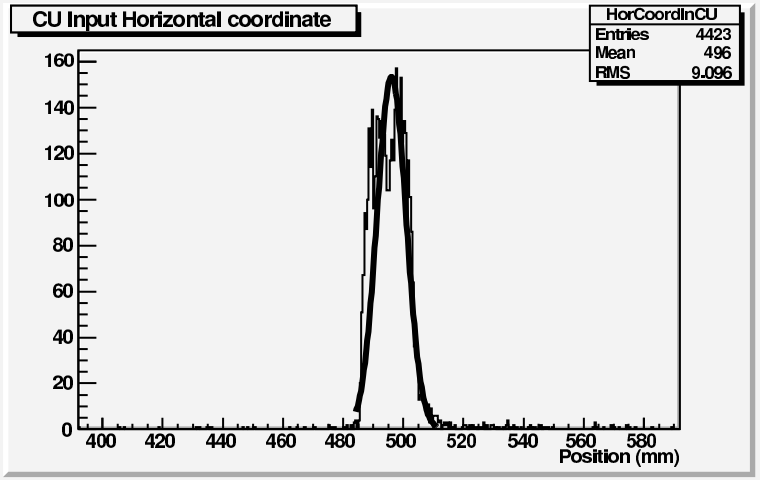

CU Input vertical coordinate
VertCoordInCU
Entries 5864
Mean 6.543
RMS 6.857
Position (mm)

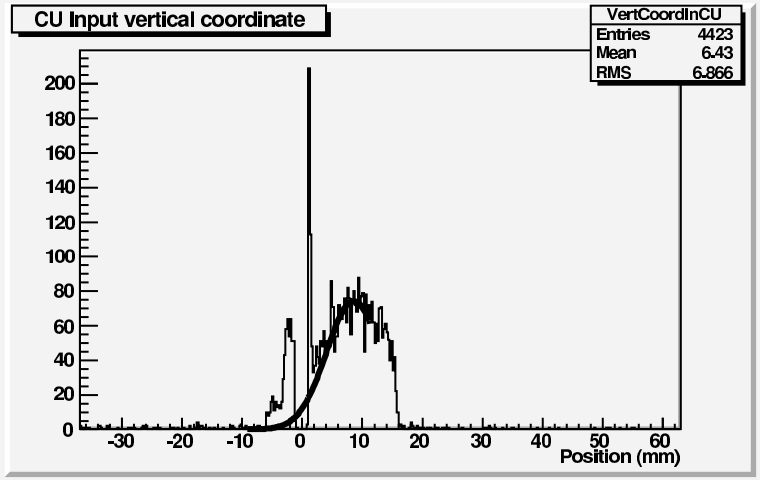

CU Input horizontal angle
HorAngleInCU
Entries 5864
Mean 0.006894
RMS 0.001611
Angle (rad)

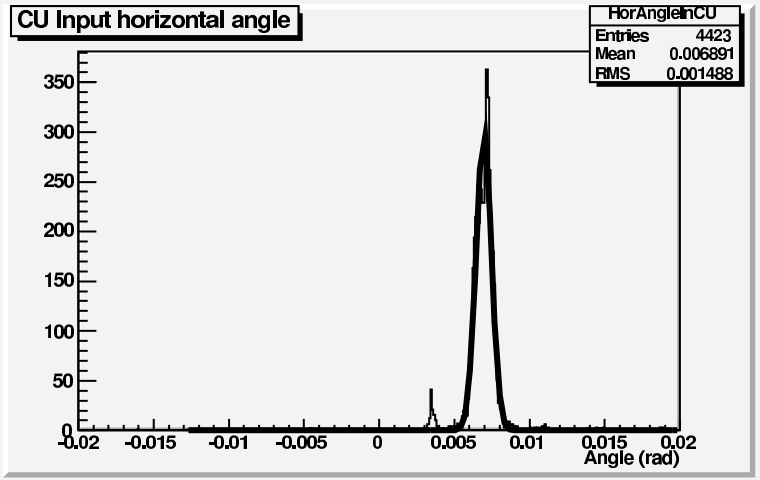

CU Input vertical angle
VertAngleInCU
Entries 5864
Mean 0.005688
RMS 0.001504
Angle (rad)

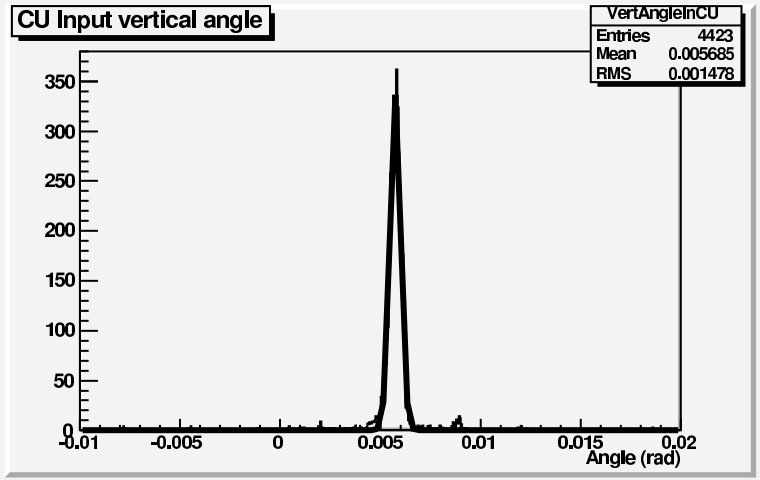

CU Input Beam Spot
SpotCoordInCU
Entries 5864
Mean x 552.4
Mean y 6.704
RMS x 6.301
RMS y 5.526
Vertical Position (mm)
Horizontal Position (mm)

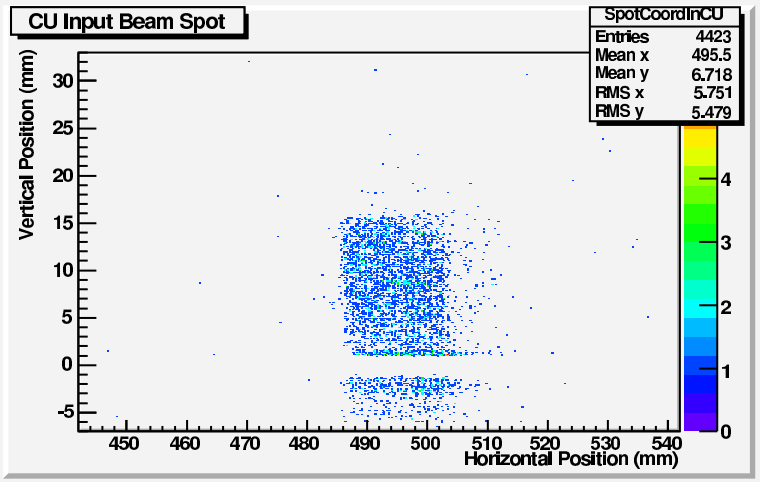

CU Input Beam Spot
SpotAngleInCU
Entries 5864
Mean x 0.005672
Mean y 0.006917
RMS x 0.0016
RMS y 0.001338
Vertical Angle (rad)
Horizontal Angle (rad)

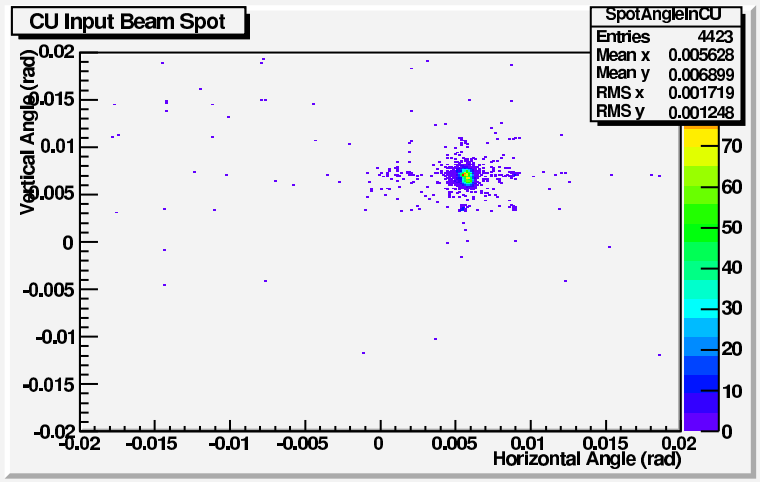

CU Input Horizontal coordinate
HorCoordInCU
Entries 4423
Mean 496
RMS 9.096
Position (mm)

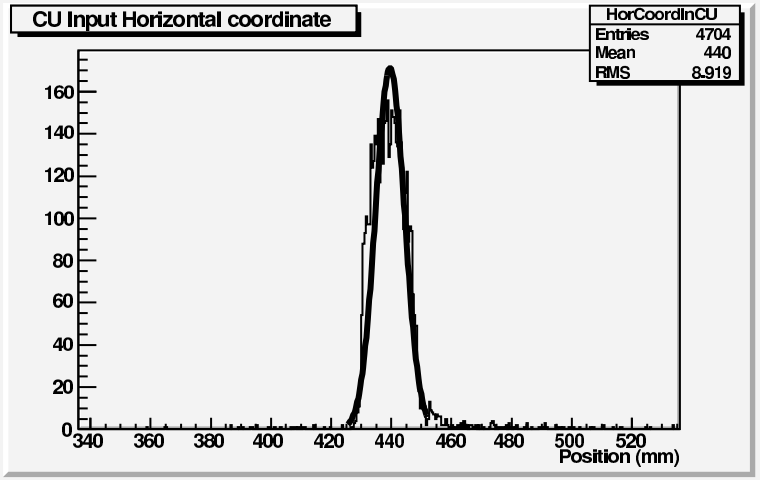

CU Input vertical coordinate
VertCoordInCU
Entries 4423
Mean 6.43
RMS 6.866
Position (mm)

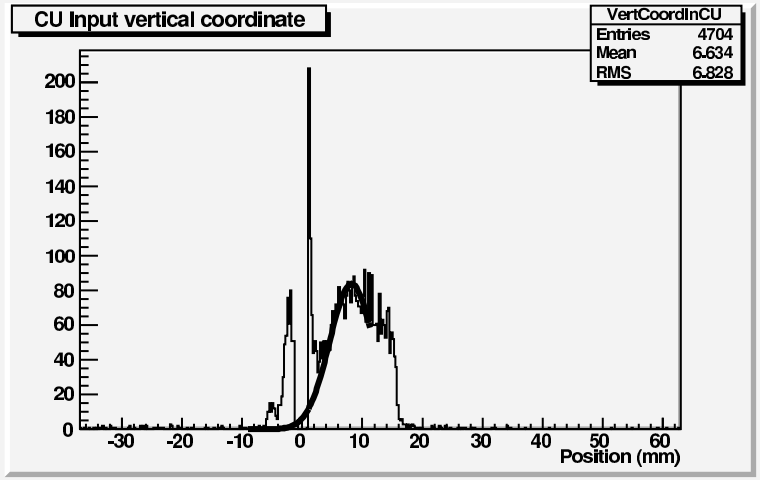

CU Input horizontal angle
HorAngleInCU
Entries 4423
Mean 0.006891
RMS 0.001488
Angle (rad)

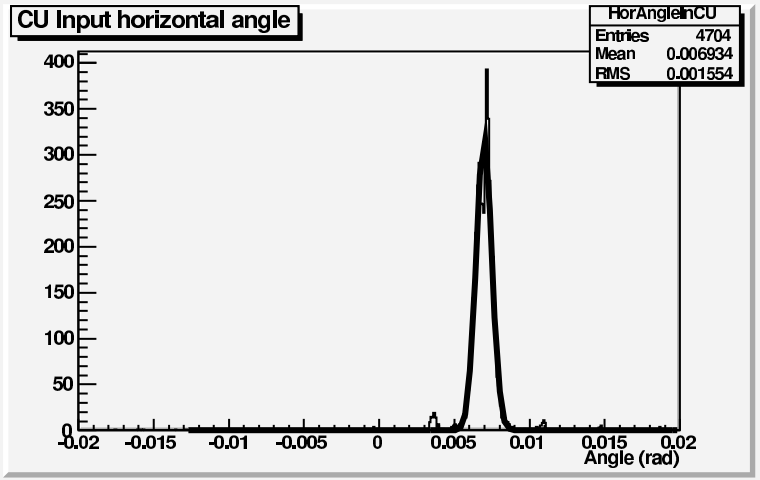

CU Input vertical angle
VertAngleInCU
Entries 4423
Mean 0.005685
RMS 0.001478
Angle (rad)

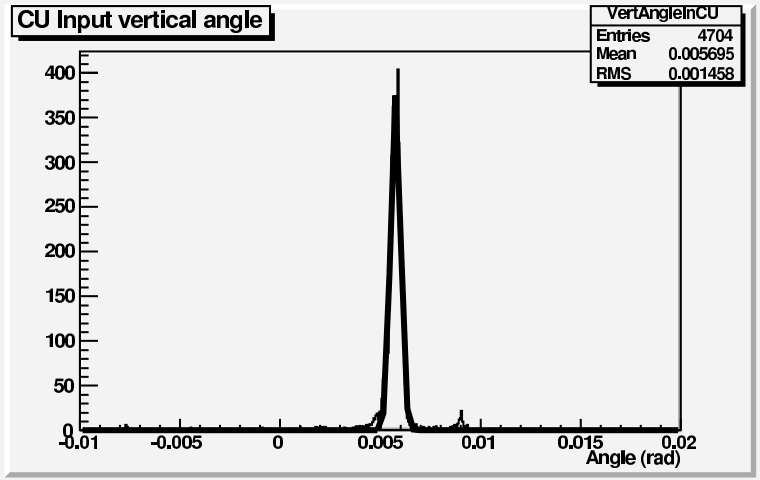

CU Input Beam Spot
SpotCoordInCU
Entries 4423
Mean x 495.5
Mean y 6.718
RMS x 5.751
RMS y 5.479
Vertical Position (mm)
Horizontal Position (mm)

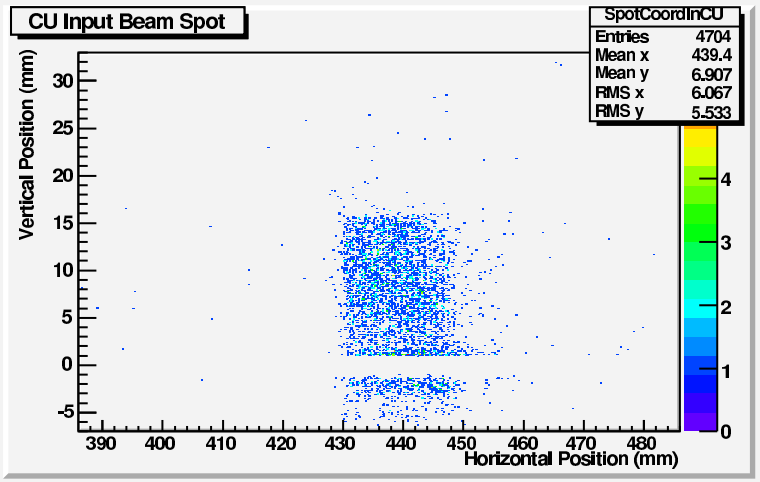

CU Input Beam Spot
SpotAngleInCU
Entries 4423
Mean x 0.005628
Mean y 0.006899
RMS x 0.001719
RMS y 0.001248
Vertical Angle (rad)
Horizontal Angle (rad)

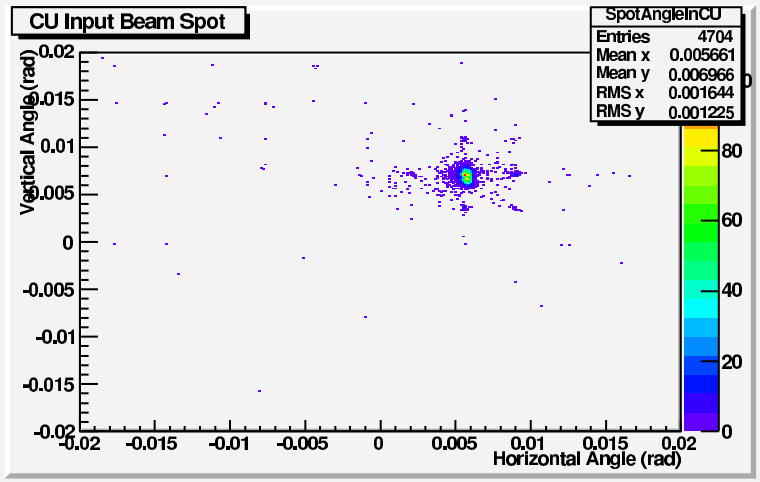

CU Input Horizontal coordinate
HorCoordInCU
Entries 4704
Mean 440
RMS 8.919
Position (mm)

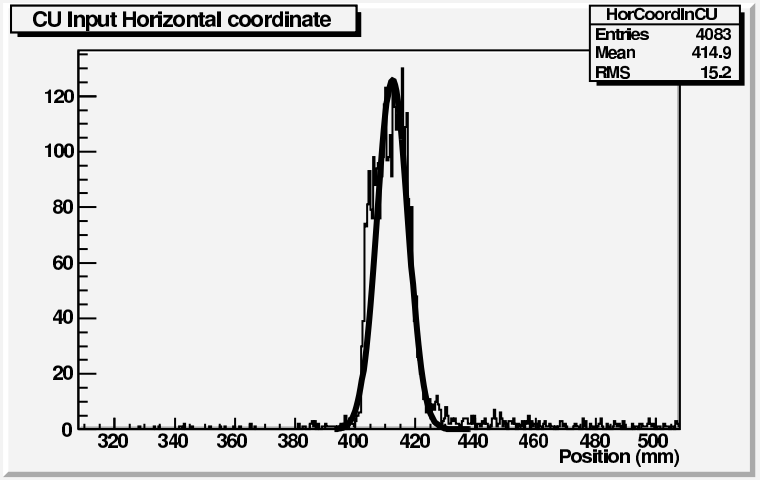

CU Input vertical coordinate
VertCoordInCU
Entries 4704
Mean 6.634
RMS 6.828
Position (mm)

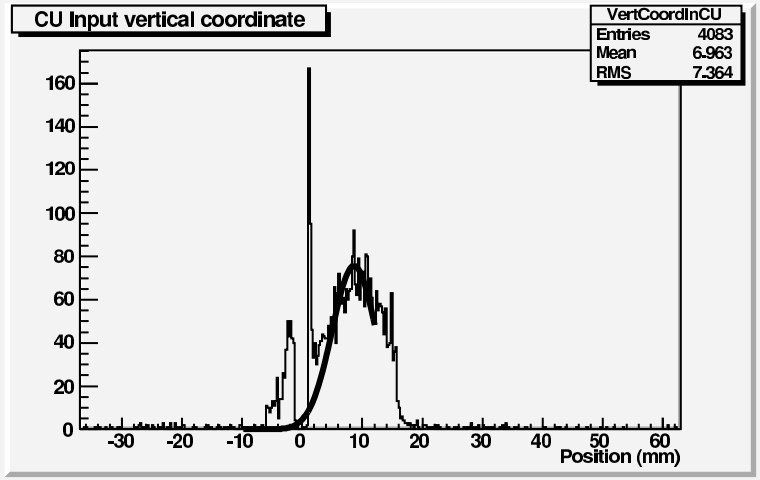

CU Input horizontal angle
HorAngleInCU
Entries 4704
Mean 0.006934
RMS 0.001554
Angle (rad)

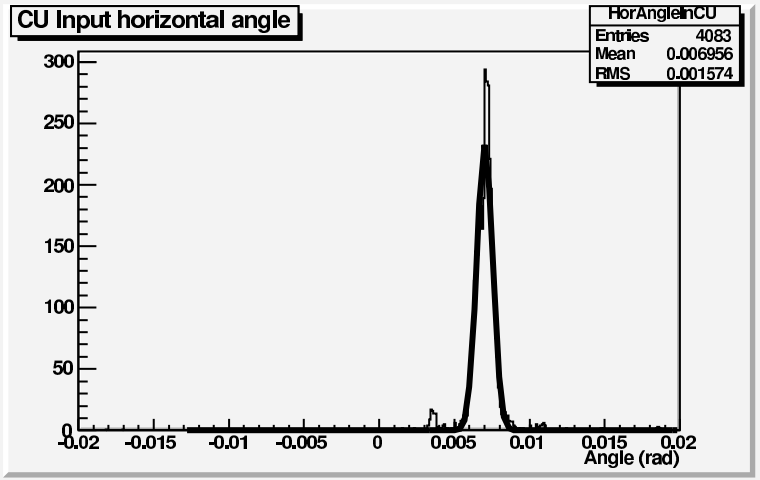

CU Input vertical angle
VertAngleInCU
Entries 4704
Mean 0.005695
RMS 0.001458
Angle (rad)

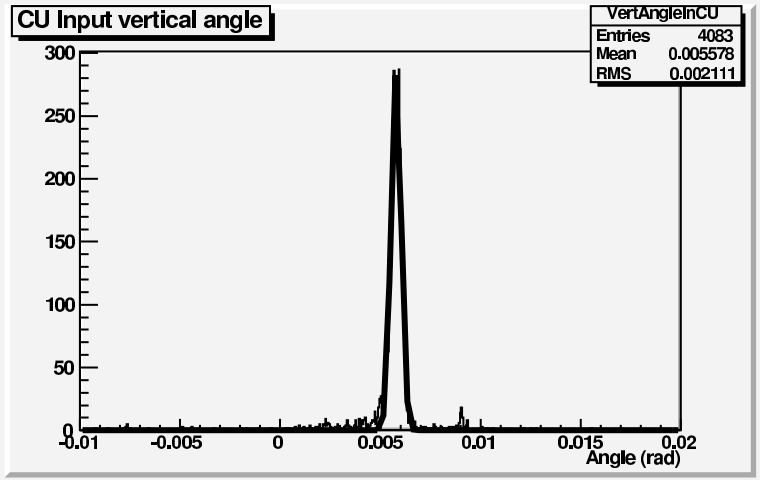

CU Input Beam Spot
SpotCoordInCU
Entries 4704
Mean x 439.4
Mean y 6.907
RMS x 6.067
RMS y 5.533
Vertical Position (mm)
Horizontal Position (mm)

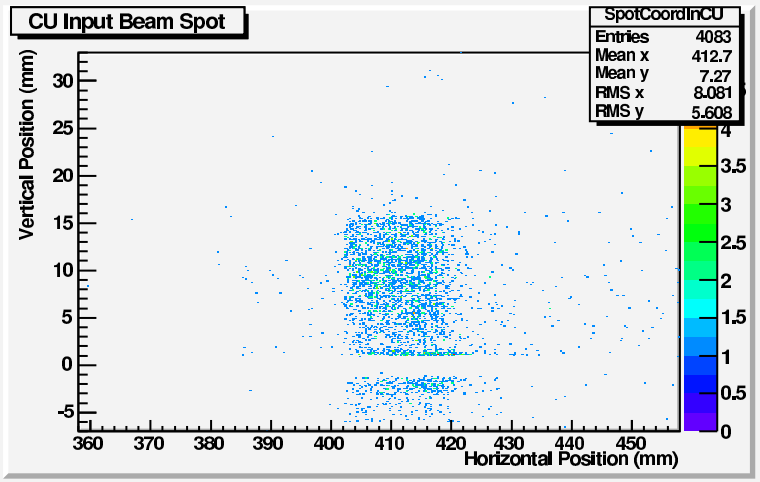

CU Input Beam Spot
SpotAngleInCU
Entries 4704
Mean x 0.005661
Mean y 0.006966
RMS x 0.001644
RMS y 0.001225
Vertical Angle (rad)
Horizontal Angle (rad)

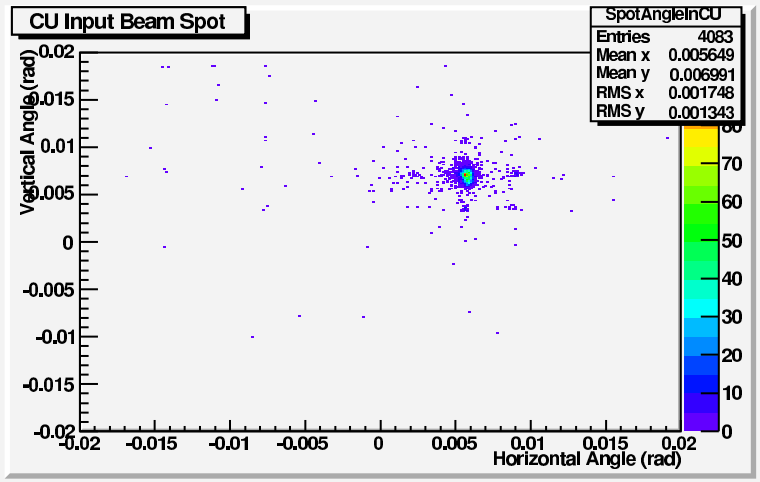

CU Input Horizontal coordinate
HorCoordInCU
Entries 4083
Mean 414.9
RMS 15.2
Position (mm)

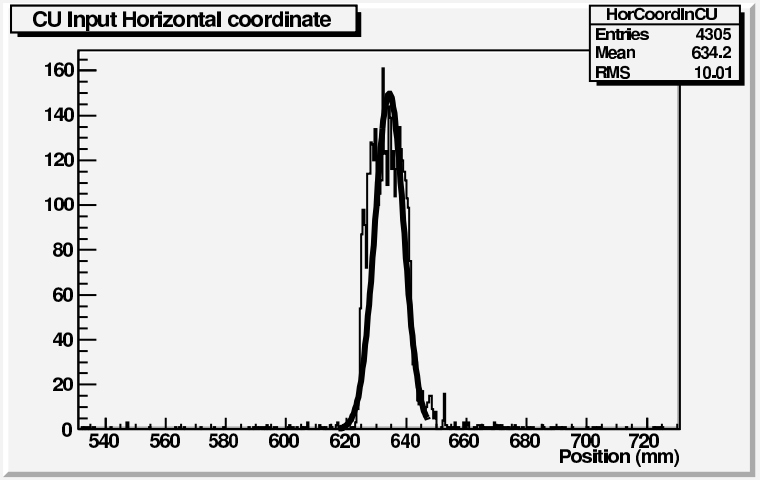

CU Input vertical coordinate
VertCoordInCU
Entries 4083
Mean 6.963
RMS 7.364
Position (mm)

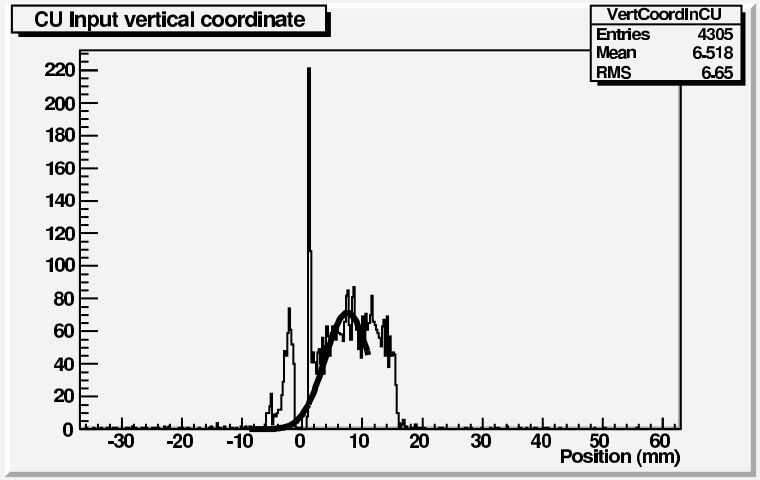

CU Input horizontal angle
HorAngleInCU
Entries 4083
Mean 0.006956
RMS 0.001574
Angle (rad)

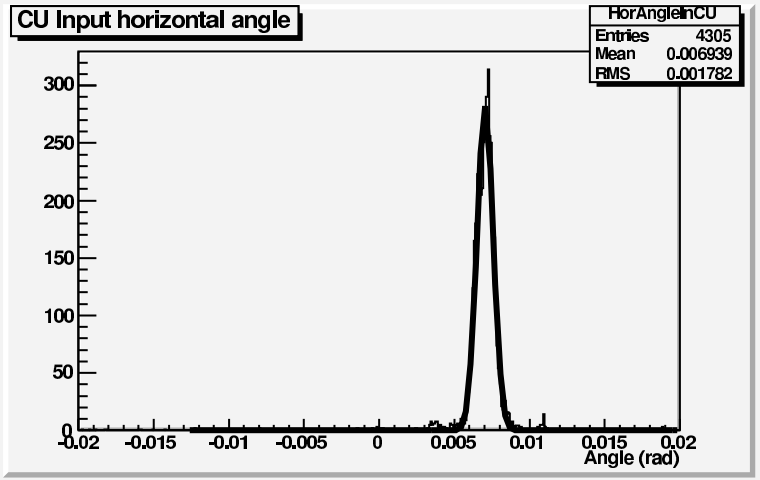

CU Input vertical angle
VertAngleInCU
Entries 4083
Mean 0.005578
RMS 0.002111
Angle (rad)

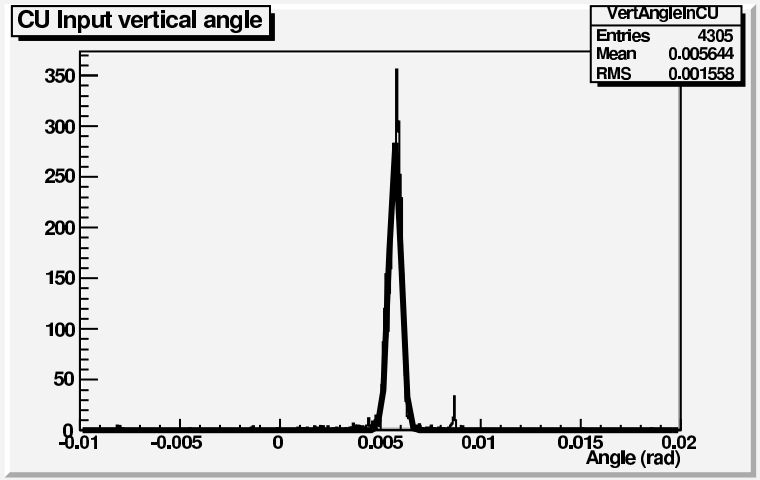

CU Input Beam Spot
SpotCoordInCU
Entries 4083
Mean x 412.7
Mean y 7.27
RMS x 8.081
RMS y 5.608
Vertical Position (mm)
Horizontal Position (mm)

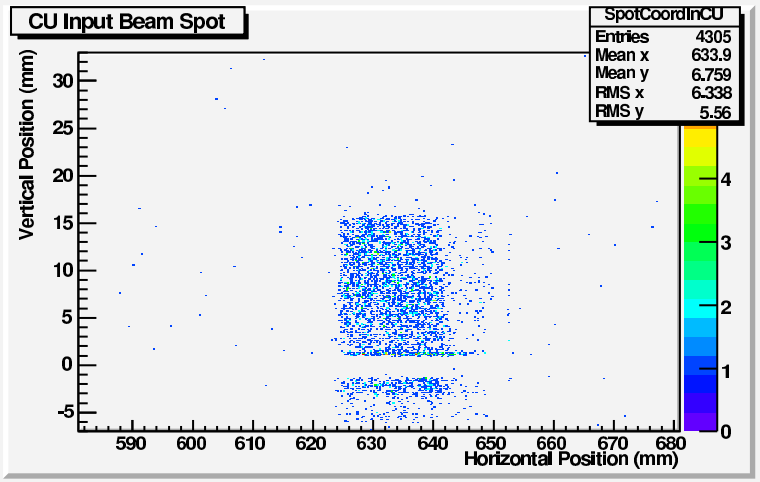

CU Input Beam Spot
SpotAngleInCU
Entries 4083
Mean x 0.005649
Mean y 0.006991
RMS x 0.001748
RMS y 0.001343
Vertical Angle (rad)
Horizontal Angle (rad)

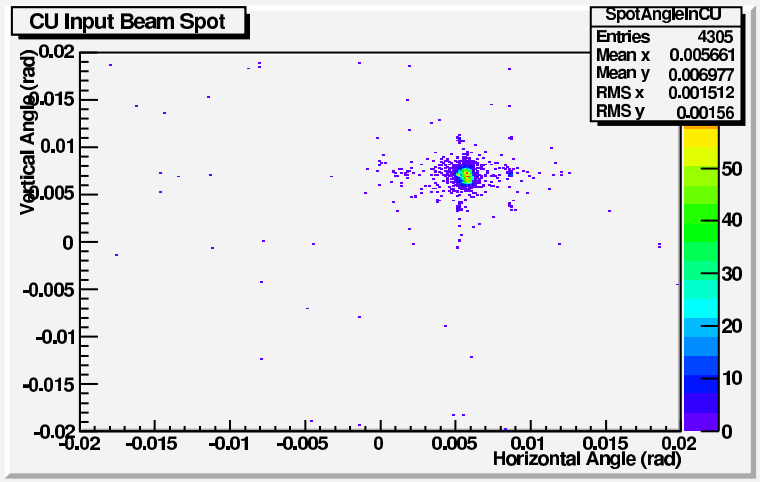

CU Input Horizontal coordinate
HorCoordInCU
Entries 4305
Mean 634.2
RMS 10.01
Position (mm)

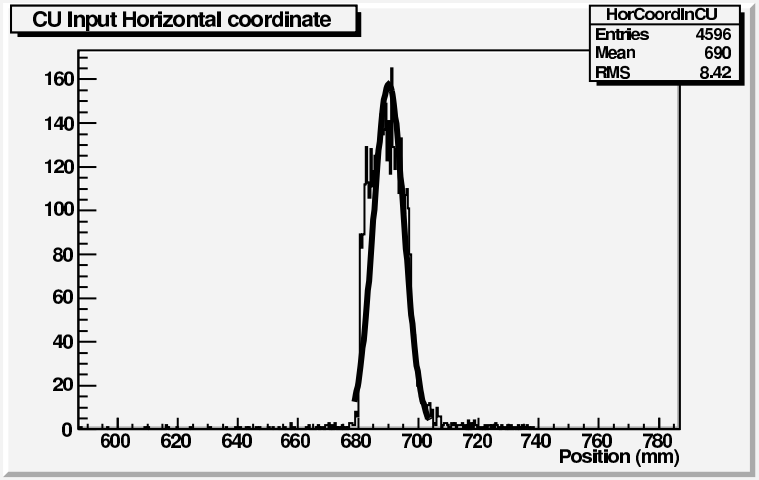

CU Input vertical coordinate
VertCoordInCU
Entries 4305
Mean 6.518
RMS 6.65
Position (mm)

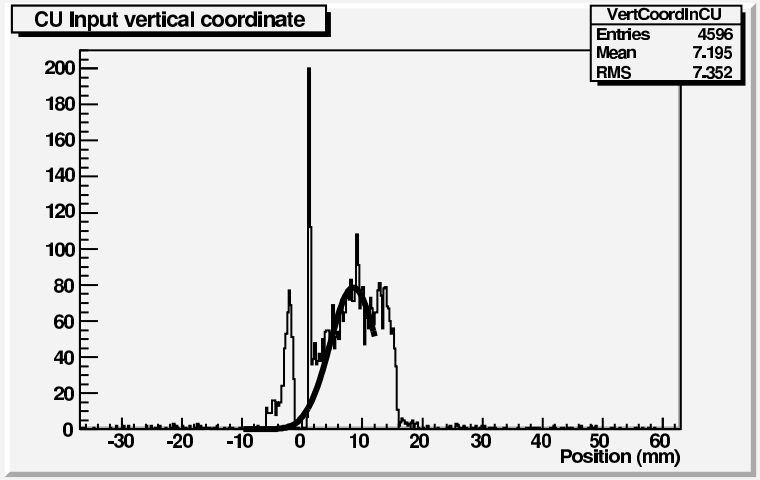

CU Input horizontal angle
HorAngleInCU
Entries 4305
Mean 0.006939
RMS 0.001782
Angle (rad)

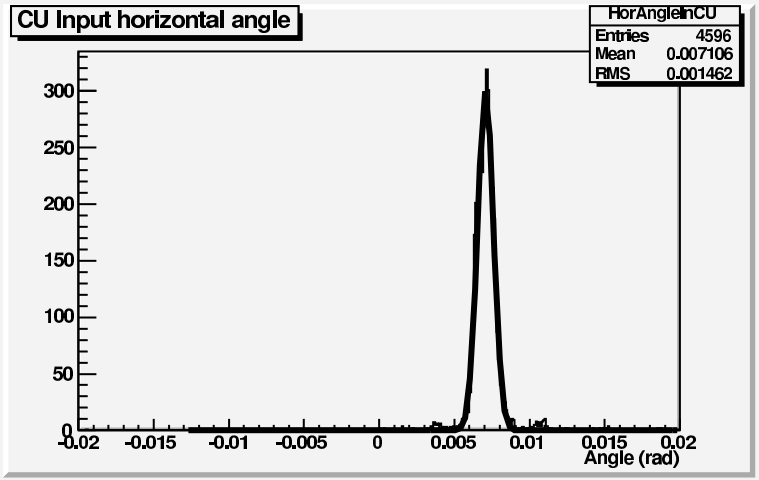

CU Input vertical angle
VertAngleInCU
Entries 4305
Mean 0.005644
RMS 0.001558
Angle (rad)

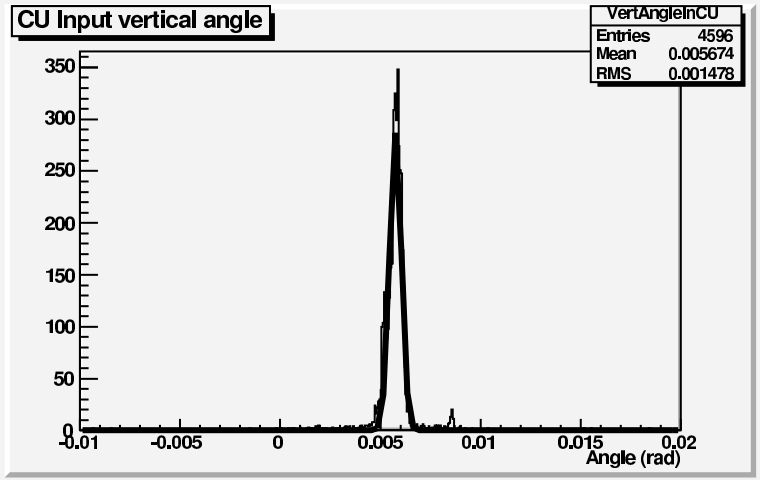

CU Input Beam Spot
SpotCoordInCU
Entries 4305
Mean x 633.9
Mean y 6.759
RMS x 6.338
RMS y 5.56
Vertical Position (mm)
Horizontal Position (mm)

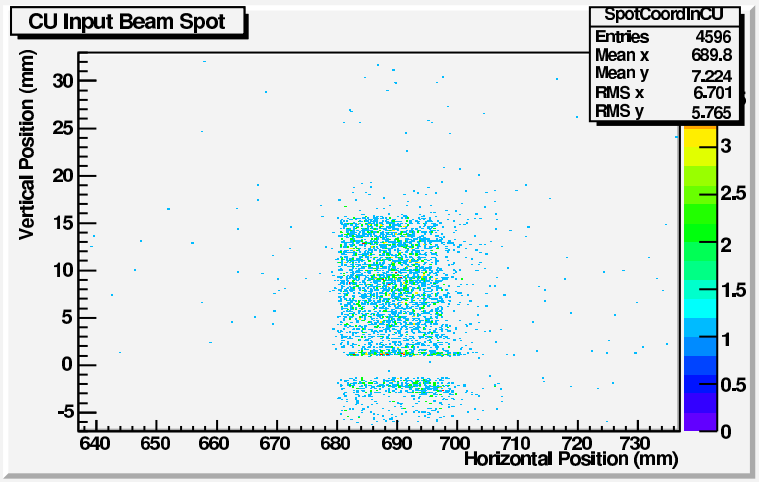

CU Input Beam Spot
SpotAngleInCU
Entries 4305
Mean x 0.005661
Mean y 0.006977
RMS x 0.001512
RMS y 0.00156
Vertical Angle (rad)
Horizontal Angle (rad)

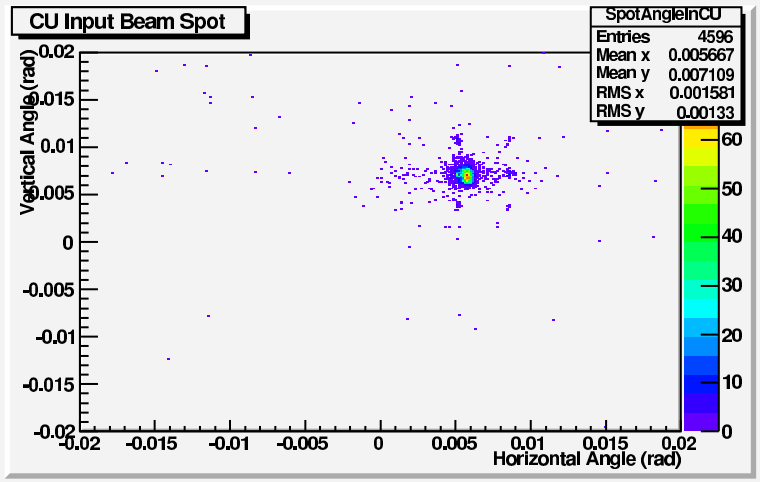

CU Input Horizontal coordinate
HorCoordInCU
Entries 4596
Mean 690
RMS 8.42
Position (mm)

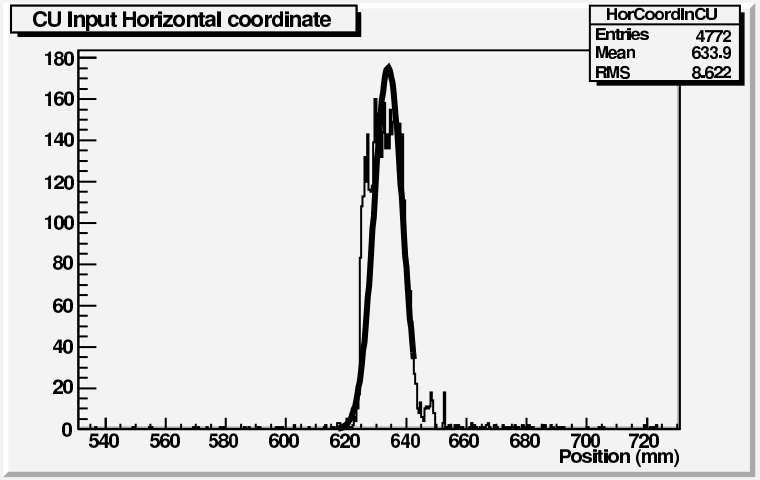

CU Input vertical coordinate
VertCoordInCU
Entries 4596
Mean 7.195
RMS 7.352
Position (mm)

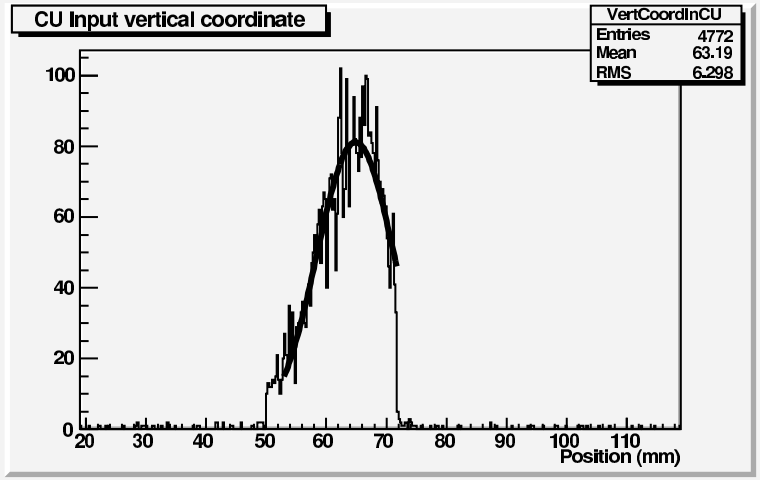

CU Input horizontal angle
HorAngleInCU
Entries 4596
Mean 0.007106
RMS 0.001462
Angle (rad)

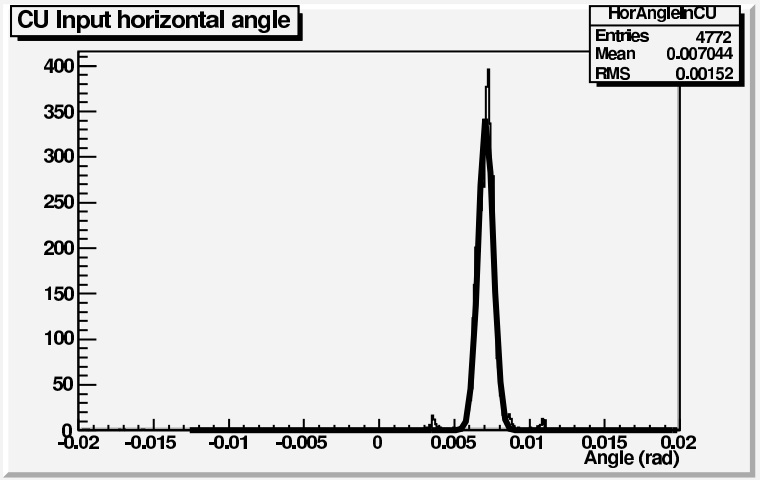

CU Input vertical angle
VertAngleInCU
Entries 4596
Mean 0.005674
RMS 0.001478
Angle (rad)

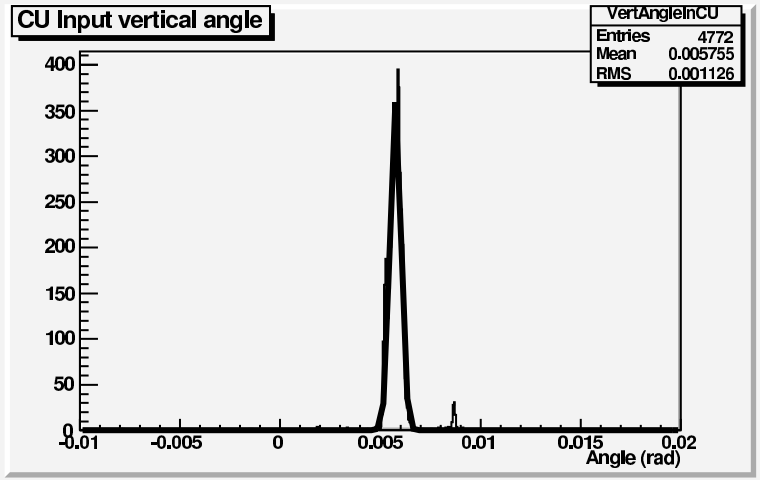

CU Input Beam Spot
SpotCoordInCU
Entries 4596
Mean x 689.8
Mean y 7.224
RMS x 6.701
RMS y 5.765
Vertical Position (mm)
Horizontal Position (mm)

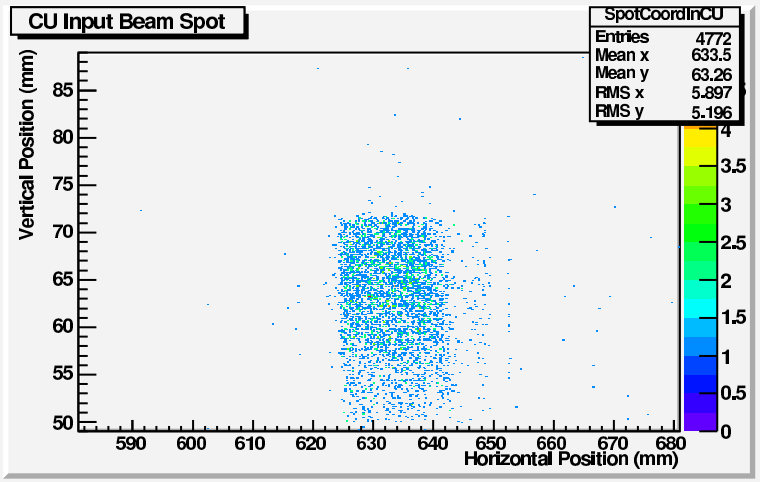

CU Input Beam Spot
SpotAngleInCU
Entries 4596
Mean x 0.005667
Mean y 0.007109
RMS x 0.001581
RMS y 0.00133
Vertical Angle (rad)
Horizontal Angle (rad)

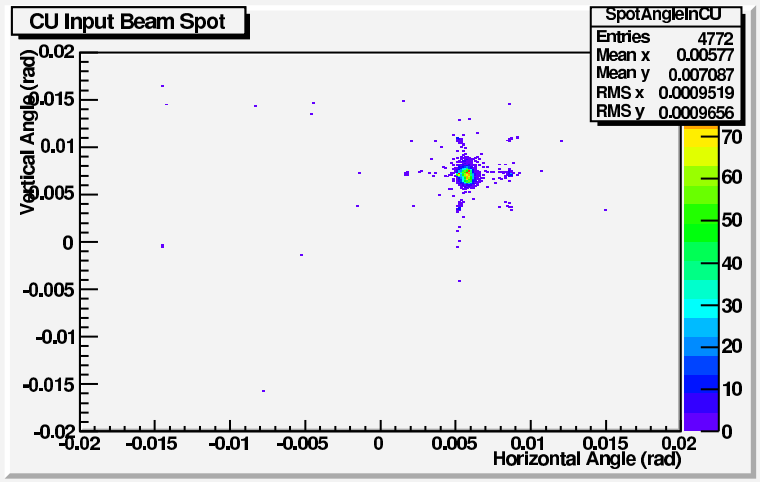

CU Input Horizontal coordinate
HorCoordInCU
Entries 4772
Mean 633.9
RMS 8.622
Position (mm)

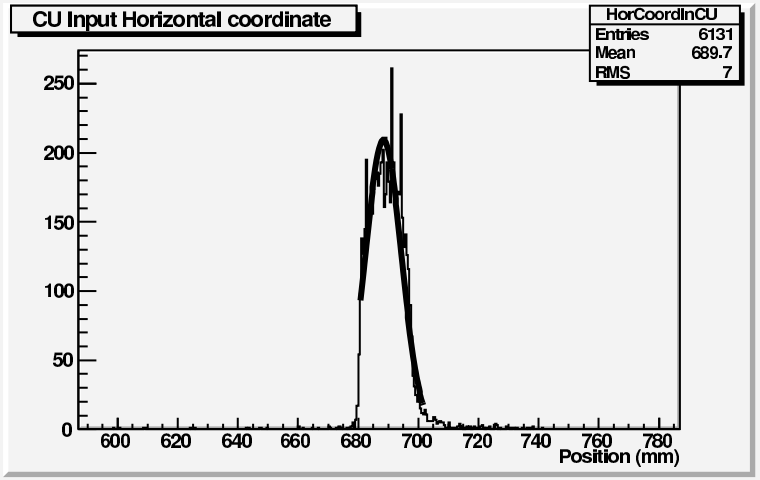

CU Input vertical coordinate
VertCoordInCU
Entries 4772
Mean 63.19
RMS 6.298
Position (mm)

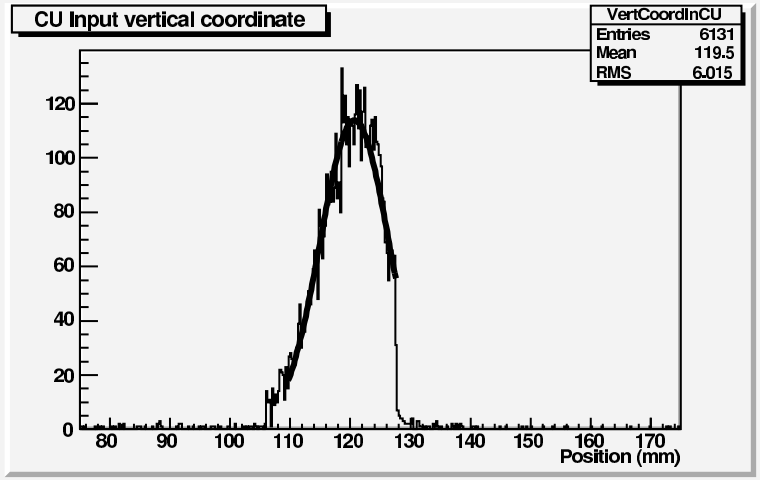

CU Input horizontal angle
HorAngleInCU
Entries 4772
Mean 0.007044
RMS 0.00152
Angle (rad)

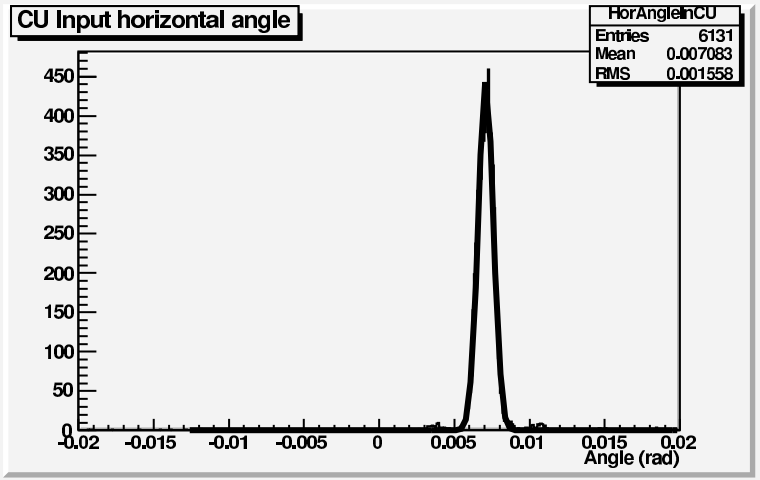

CU Input vertical angle
VertAngleInCU
Entries 4772
Mean 0.005755
RMS 0.001126
Angle (rad)

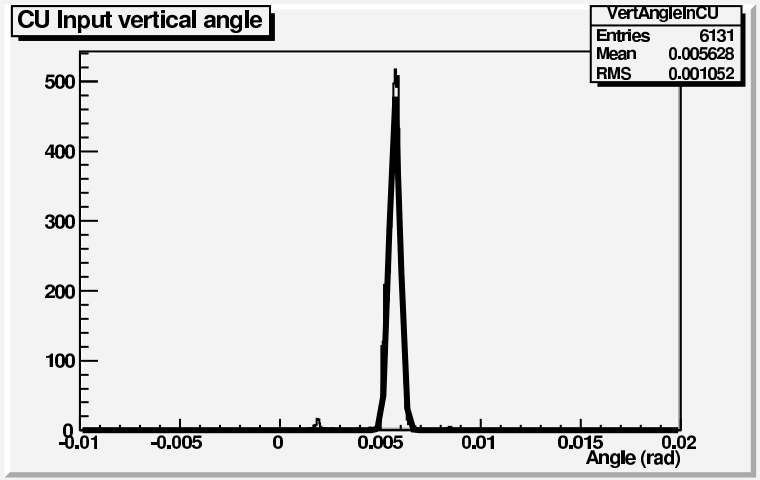

CU Input Beam Spot
SpotCoordInCU
Entries 4772
Mean x 633.5
Mean y 63.26
RMS x 5.897
RMS y 5.196
Vertical Position (mm)
Horizontal Position (mm)

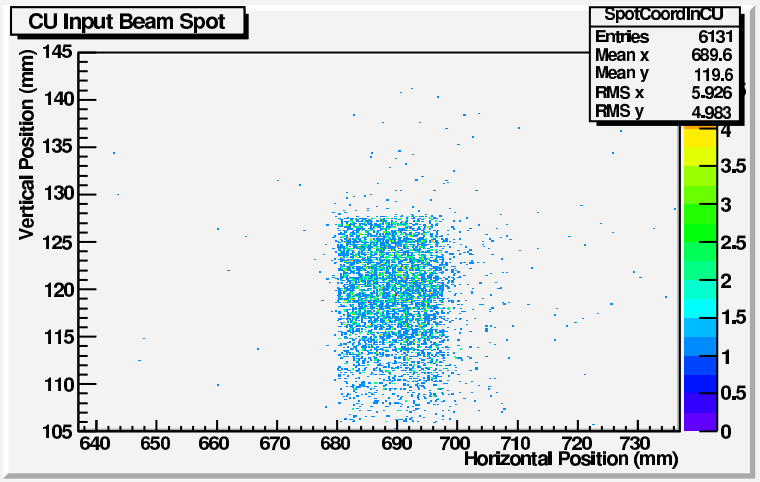

CU Input Beam Spot
SpotAngleInCU
Entries 4772
Mean x 0.00577
Mean y 0.007087
RMS x 0.0009519
RMS y 0.0009656
Vertical Angle (rad)
Horizontal Angle (rad)

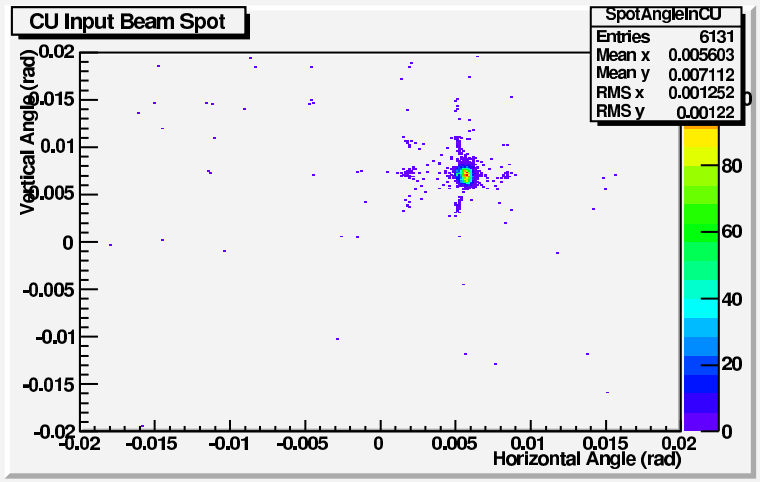

CU Input Horizontal coordinate
HorCoordInCU
Entries 6131
Mean 689.7
RMS 7
Position (mm)

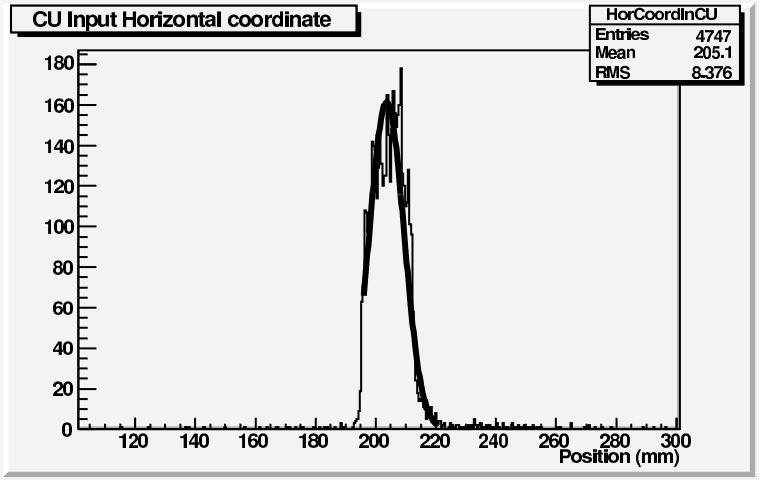

CU Input vertical coordinate
VertCoordInCU
Entries 6131
Mean 119.5
RMS 6.015
Position (mm)

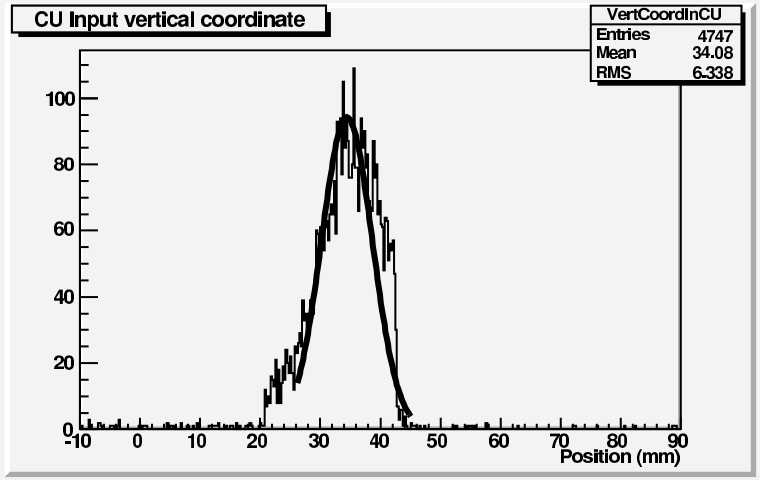

CU Input horizontal angle
HorAngleInCU
Entries 6131
Mean 0.007083
RMS 0.001558
Angle (rad)

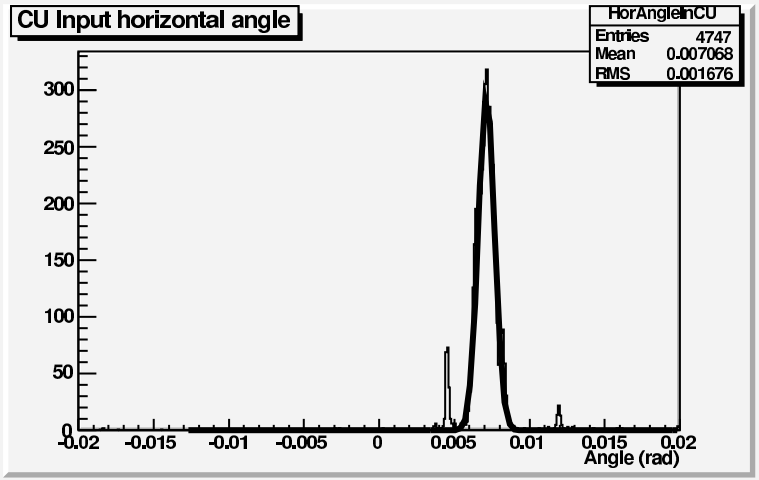

CU Input vertical angle
VertAngleInCU
Entries 6131
Mean 0.005628
RMS 0.001052
Angle (rad)

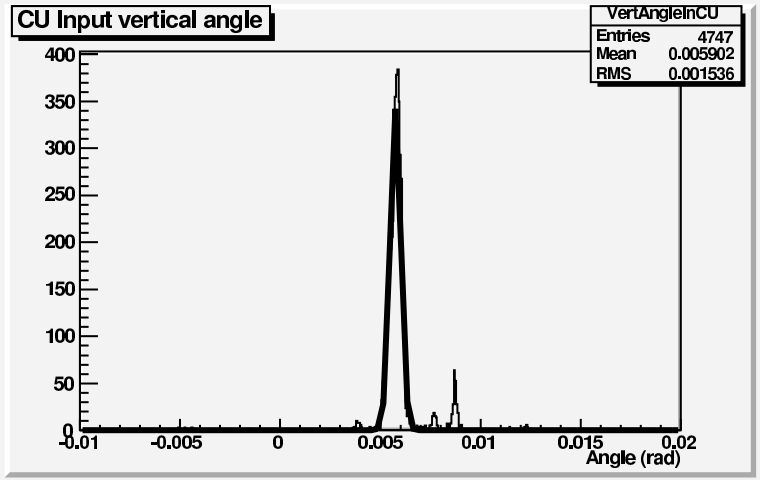

CU Input Beam Spot
SpotCoordInCU
Entries 6131
Mean x 689.6
Mean y 119.6
RMS x 5.926
RMS y 4.983
Vertical Position (mm)
Horizontal Position (mm)

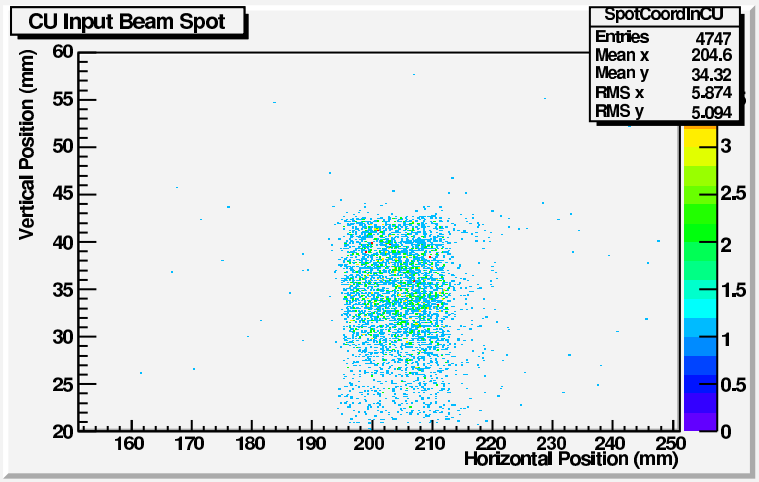

CU Input Beam Spot
SpotAngleInCU
Entries 6131
Mean x 0.005603
Mean y 0.007112
RMS x 0.001252
RMS y 0.00122
Vertical Angle (rad)
Horizontal Angle (rad)

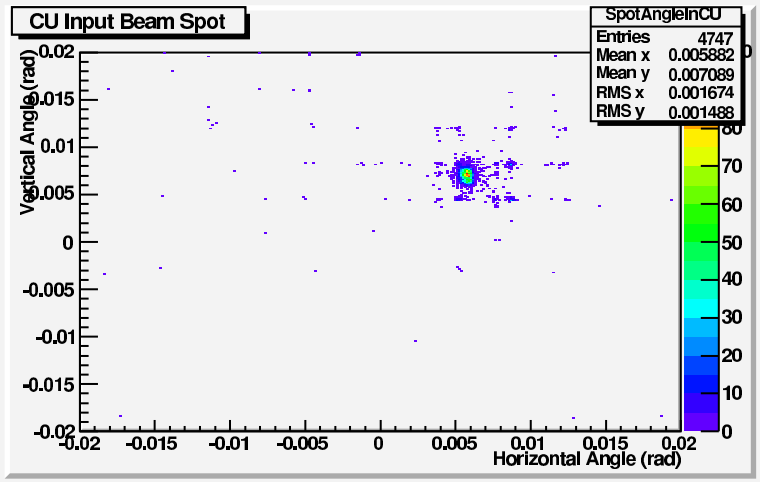

CU Input Horizontal coordinate
HorCoordInCU
Entries 4747
Mean 205.1
RMS 8.376
Position (mm)

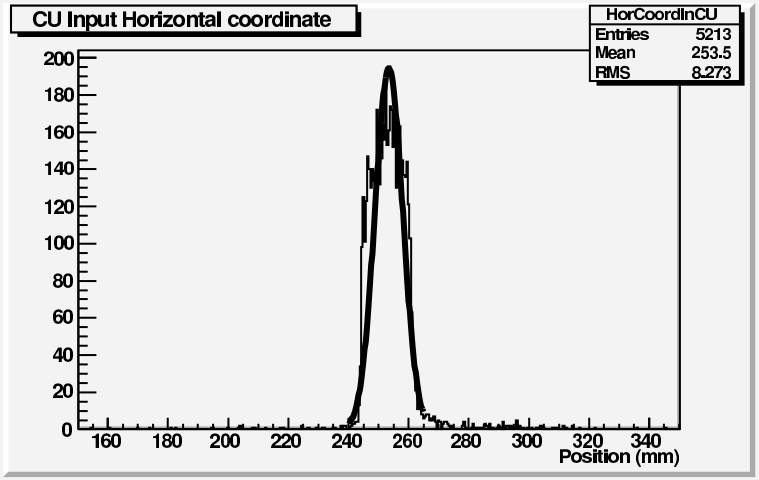

CU Input vertical coordinate
VertCoordInCU
Entries 4747
Mean 34.08
RMS 6.338
Position (mm)

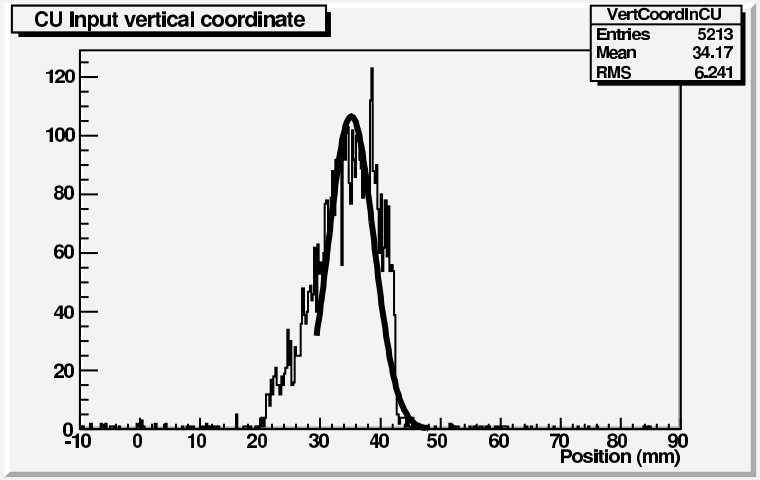

CU Input horizontal angle
HorAngleInCU
Entries 4747
Mean 0.007068
RMS 0.001676
Angle (rad)

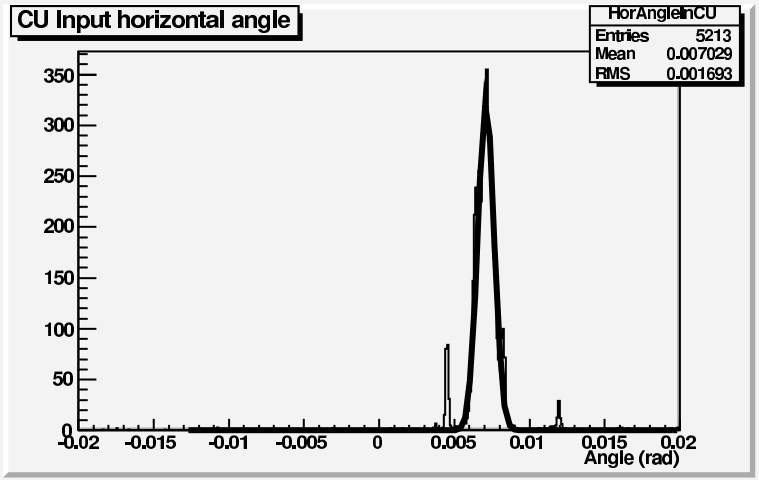

CU Input vertical angle
VertAngleInCU
Entries 4747
Mean 0.005902
RMS 0.001536
Angle (rad)

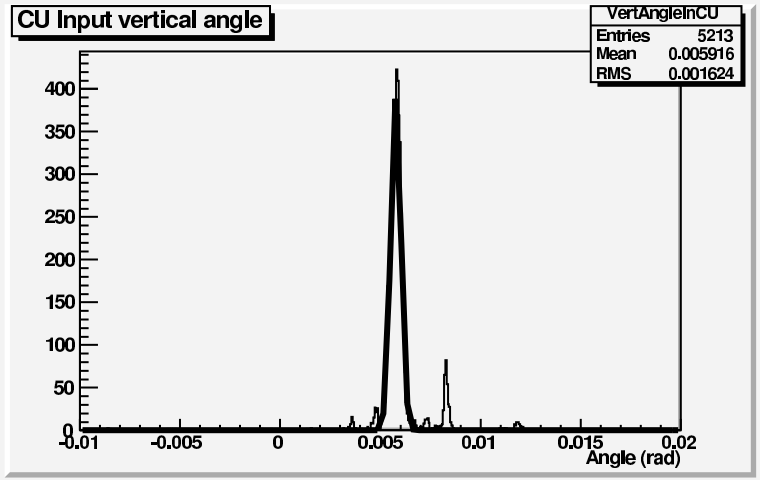

CU Input Beam Spot
SpotCoordInCU
Entries 4747
Mean x 204.6
Mean y 34.32
RMS x 5.874
RMS y 5.094
Vertical Position (mm)
Horizontal Position (mm)

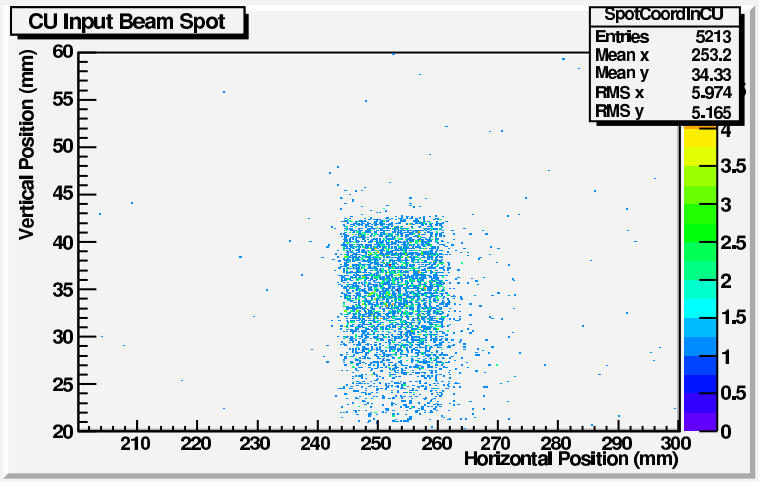

CU Input Beam Spot
SpotAngleInCU
Entries 4747
Mean x 0.005882
Mean y 0.007089
RMS x 0.001674
RMS y 0.001488
Vertical Angle (rad)
Horizontal Angle (rad)

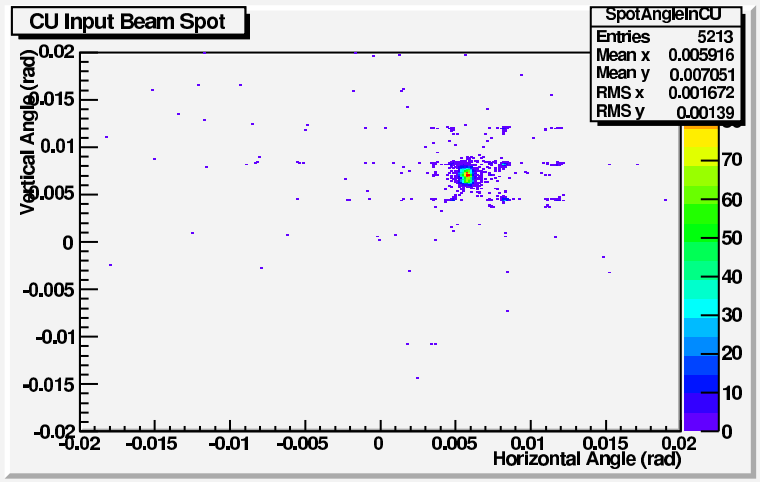

CU Input Horizontal coordinate
HorCoordInCU
Entries 5213
Mean 253.5
RMS 8.273
Position (mm)

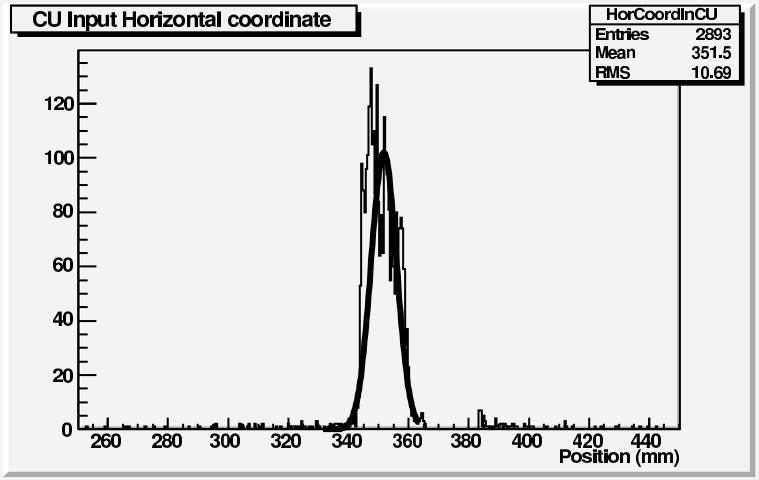

CU Input vertical coordinate
VertCoordInCU
Entries 5213
Mean 34.17
RMS 6.241
Position (mm)

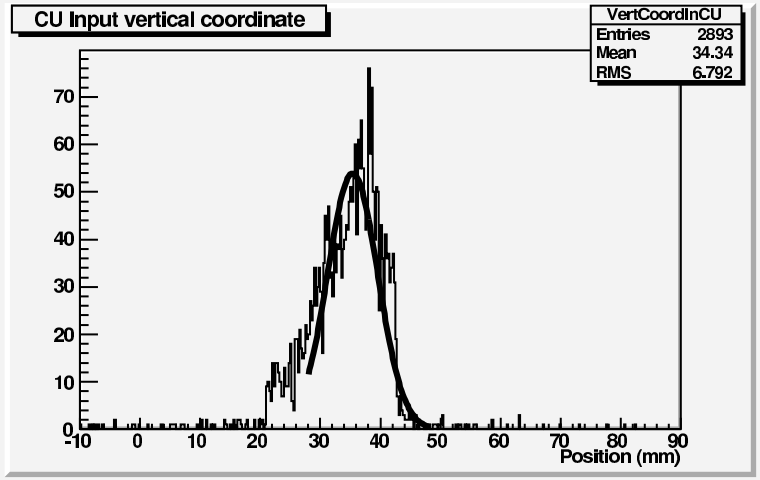

CU Input horizontal angle
HorAngleInCU
Entries 5213
Mean 0.007029
RMS 0.001693
Angle (rad)

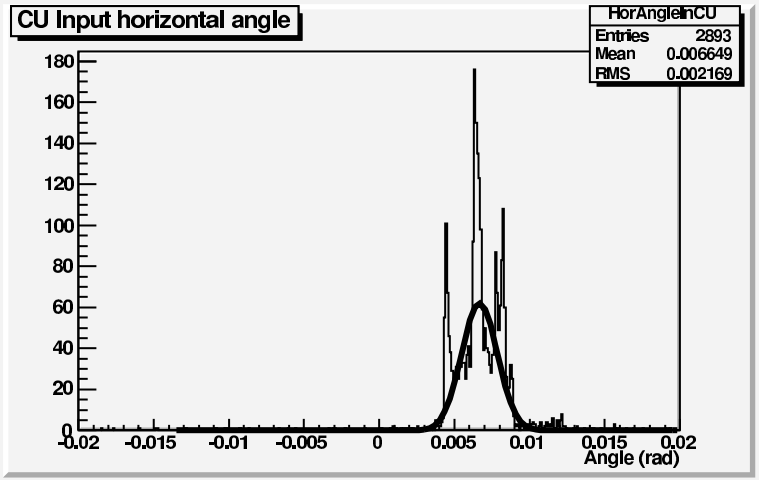

CU Input vertical angle
VertAngleInCU
Entries 5213
Mean 0.005916
RMS 0.001624
Angle (rad)

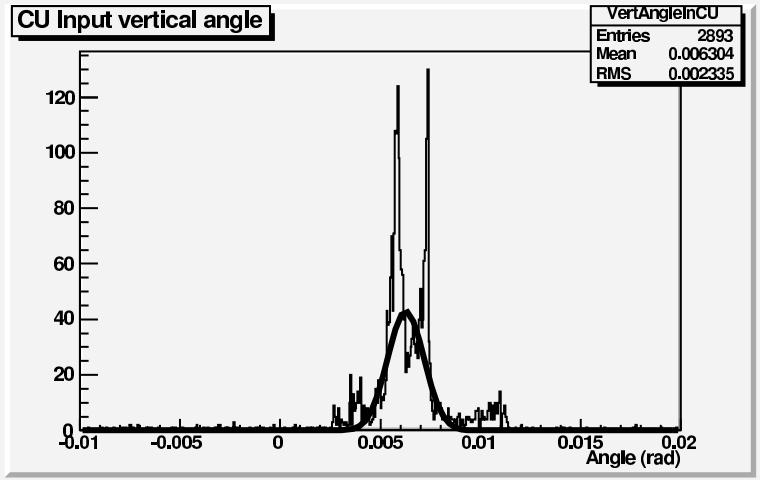

CU Input Beam Spot
SpotCoordInCU
Entries 5213
Mean x 253.2
Mean y 34.33
RMS x 5.974
RMS y 5.165
Vertical Position (mm)
Horizontal Position (mm)

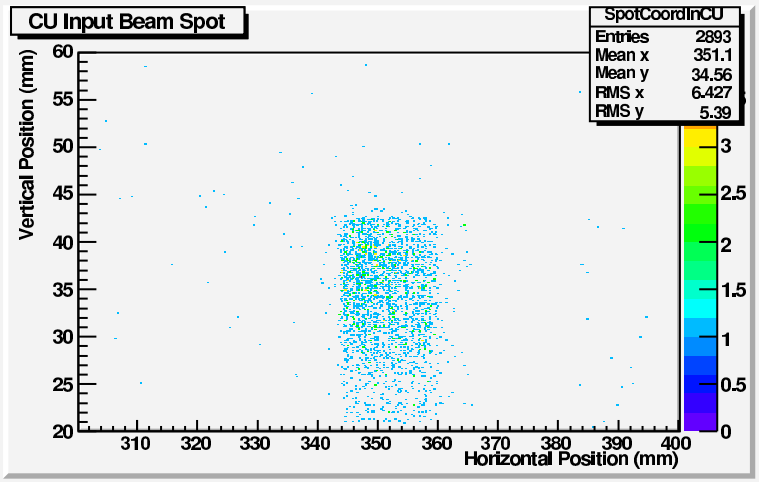

CU Input Beam Spot
SpotAngleInCU
Entries 5213
Mean x 0.005916
Mean y 0.007051
RMS x 0.001672
RMS y 0.00139
Vertical Angle (rad)
Horizontal Angle (rad)

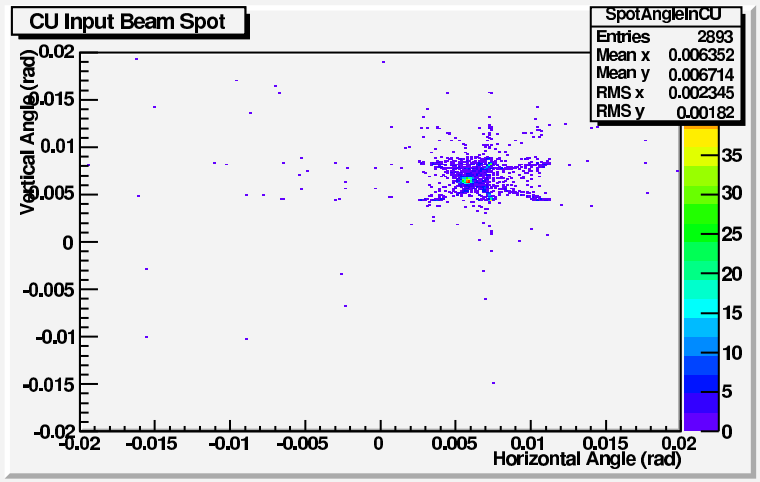

CU Input Horizontal coordinate
HorCoordInCU
Entries 2893
Mean 351.5
RMS 10.69
Position (mm)

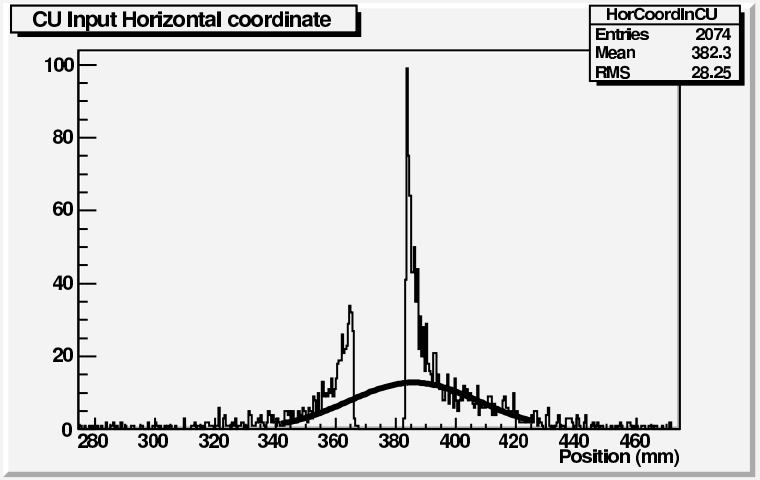

CU Input vertical coordinate
VertCoordInCU
Entries 2893
Mean 34.34
RMS 6.792
Position (mm)

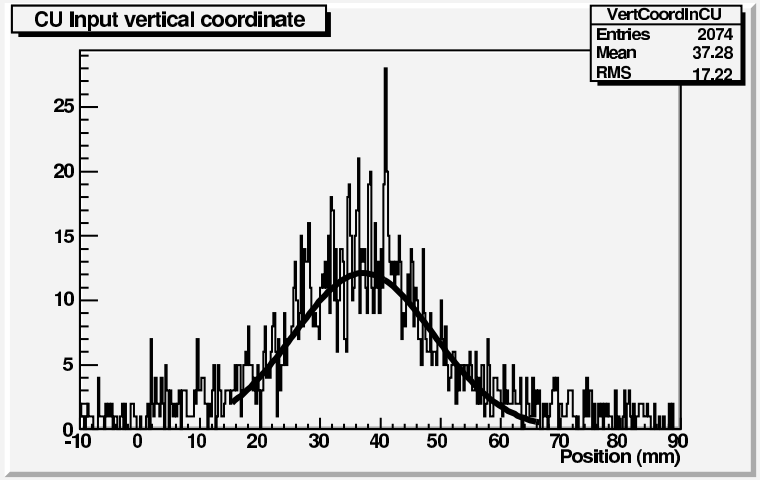

CU Input horizontal angle
HorAngleInCU
Entries 2893
Mean 0.006649
RMS 0.002169
Angle (rad)

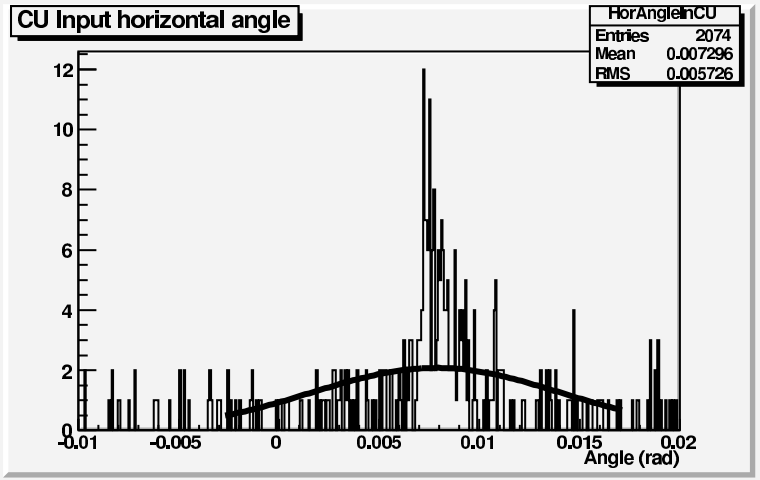

CU Input vertical angle
VertAngleInCU
Entries 2893
Mean 0.006304
RMS 0.002335
Angle (rad)

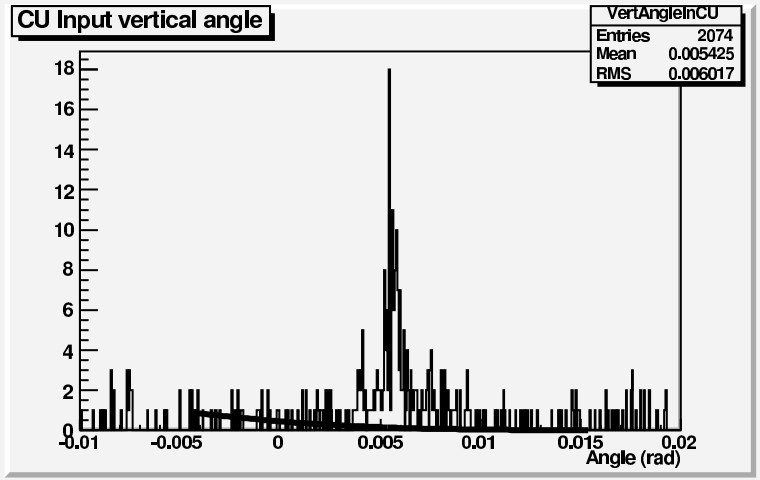

CU Input Beam Spot
SpotCoordInCU
Entries 2893
Mean x 351.1
Mean y 34.56
RMS x 6.427
RMS y 5.39
Vertical Position (mm)
Horizontal Position (mm)

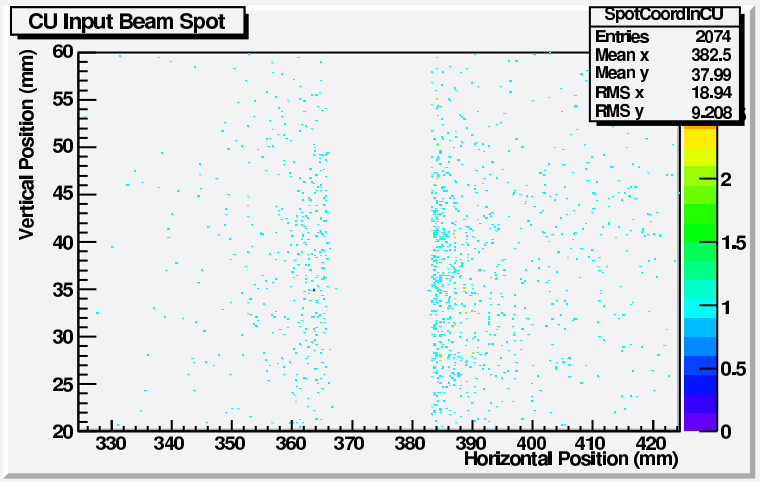

CU Input Beam Spot
SpotAngleInCU
Entries 2893
Mean x 0.006352
Mean y 0.006714
RMS x 0.002345
RMS y 0.00182
Vertical Angle (rad)
Horizontal Angle (rad)

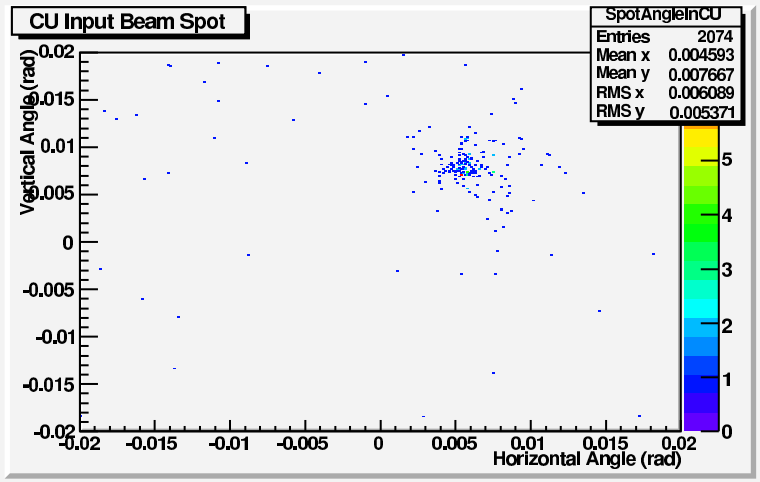

CU Input Horizontal coordinate
HorCoordInCU
Entries 2074
Mean 382.3
RMS 28.25
Position (mm)

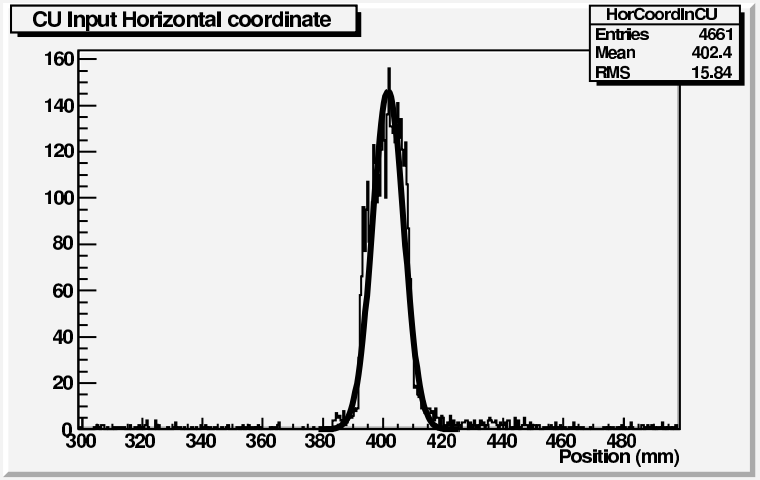

CU Input vertical coordinate
VertCoordInCU
Entries 2074
Mean 37.28
RMS 17.22
Position (mm)

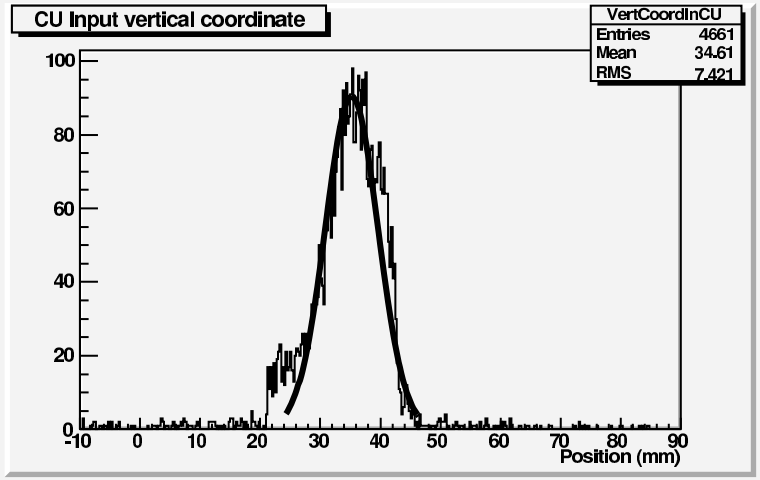

CU Input horizontal angle
HorAngleInCU
Entries 2074
Mean 0.007296
RMS 0.005726
Angle (rad)

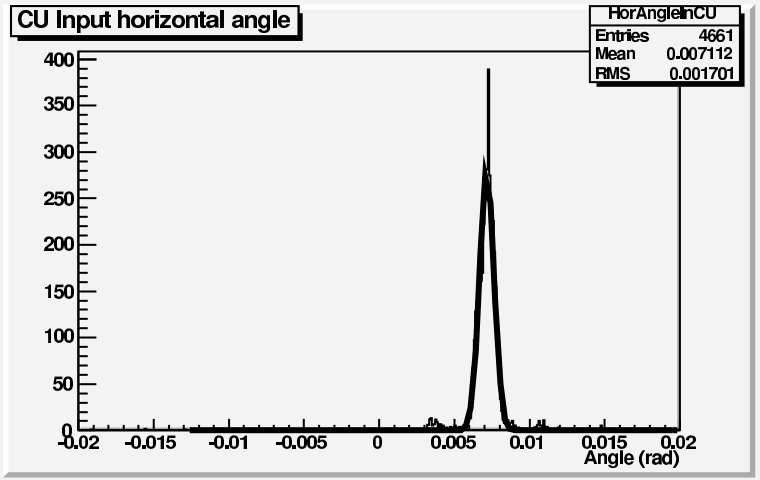

CU Input vertical angle
VertAngleInCU
Entries 2074
Mean 0.005425
RMS 0.006017
Angle (rad)

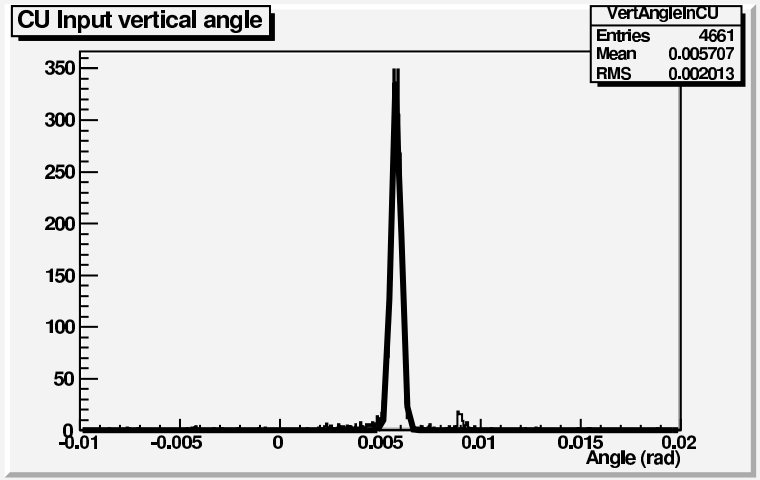

CU Input Beam Spot
SpotCoordInCU
Entries 2074
Mean x 382.5
Mean y 37.99
RMS x 18.94
RMS y 9.208
Vertical Position (mm)
Horizontal Position (mm)

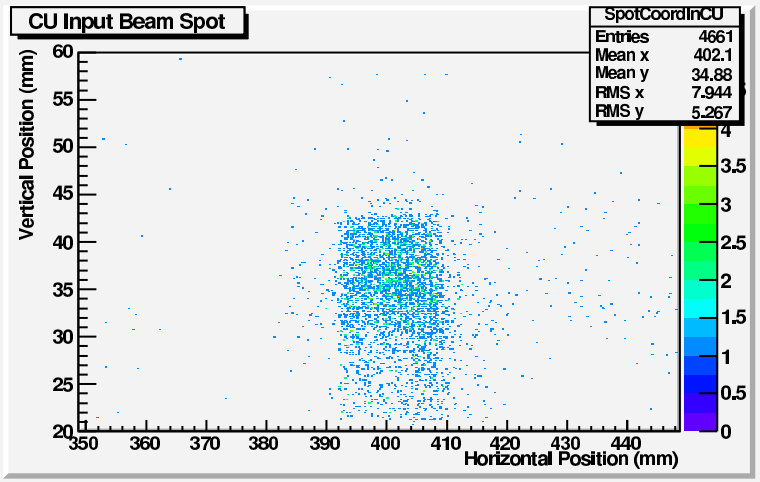

CU Input Beam Spot
SpotAngleInCU
Entries 2074
Mean x 0.004593
Mean y 0.007667
RMS x 0.006089
RMS y 0.005371
Vertical Angle (rad)
Horizontal Angle (rad)

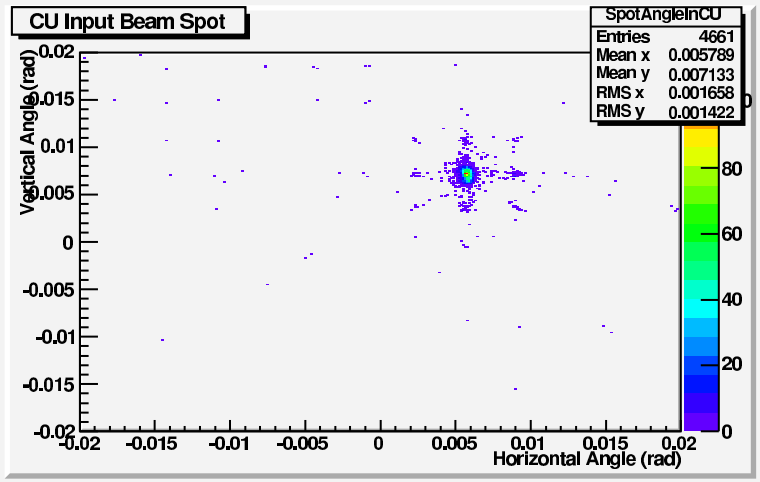

CU Input Horizontal coordinate
HorCoordInCU
Entries 4661
Mean 402.4
RMS 15.84
Position (mm)

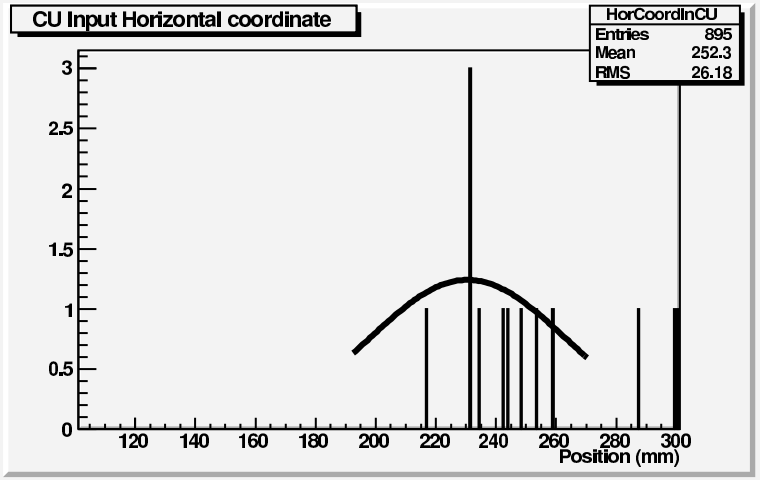

CU Input vertical coordinate
VertCoordInCU
Entries 4661
Mean 34.61
RMS 7.421
Position (mm)

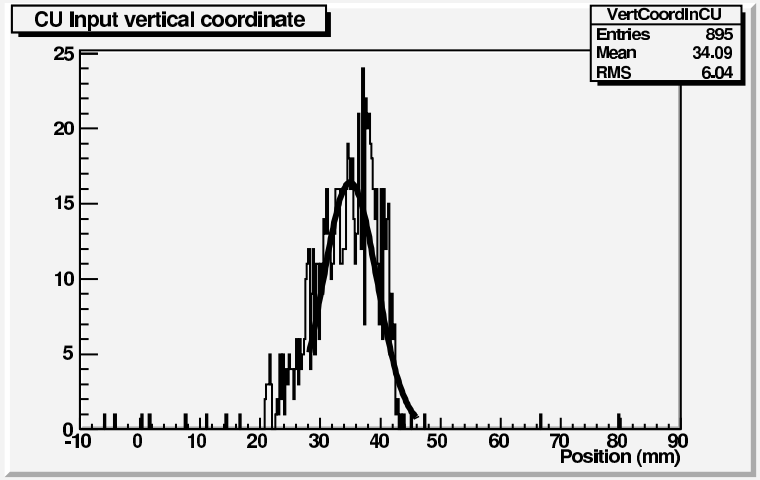

CU Input horizontal angle
HorAngleInCU
Entries 4661
Mean 0.007112
RMS 0.001701
Angle (rad)

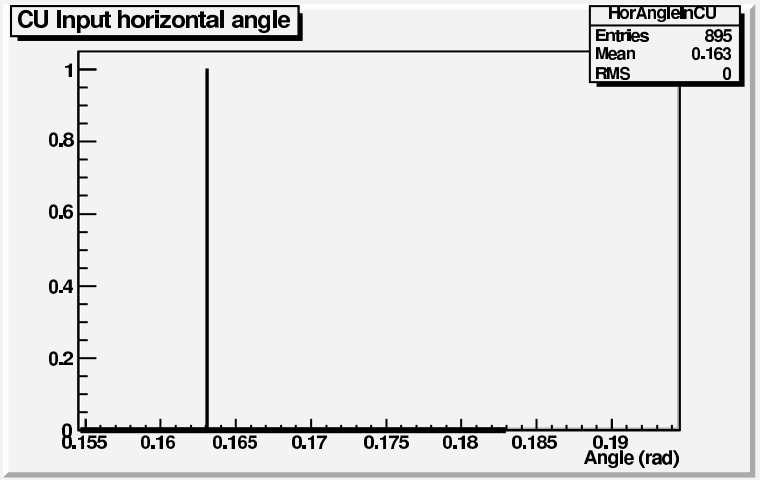

CU Input vertical angle
VertAngleInCU
Entries 4661
Mean 0.005707
RMS 0.002013
Angle (rad)

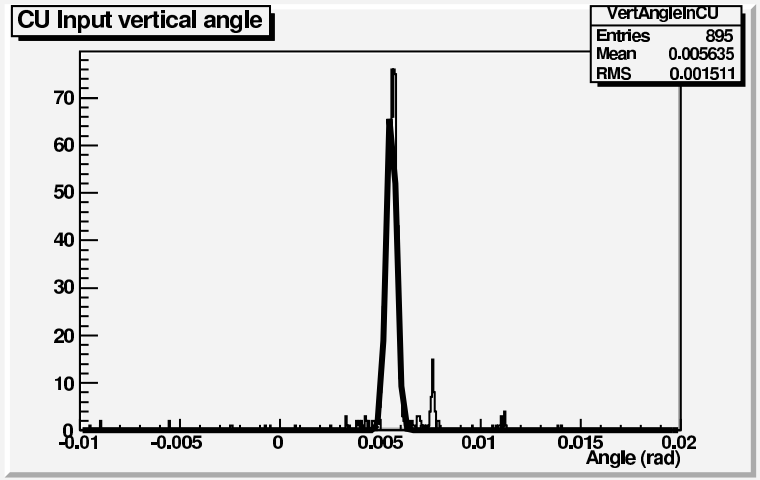

CU Input Beam Spot
SpotCoordInCU
Entries 4661
Mean x 402.1
Mean y 34.88
RMS x 7.944
RMS y 5.267
Vertical Position (mm)
Horizontal Position (mm)

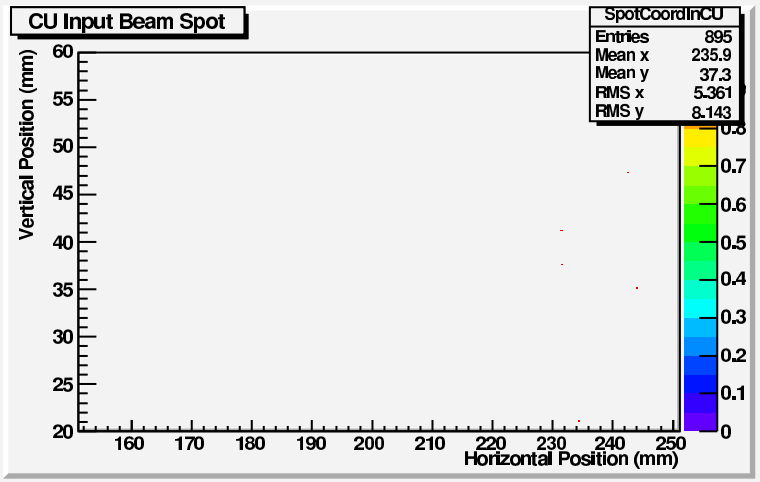

CU Input Beam Spot
SpotAngleInCU
Entries 4661
Mean x 0.005789
Mean y 0.007133
RMS x 0.001658
RMS y 0.001422
Vertical Angle (rad)
Horizontal Angle (rad)

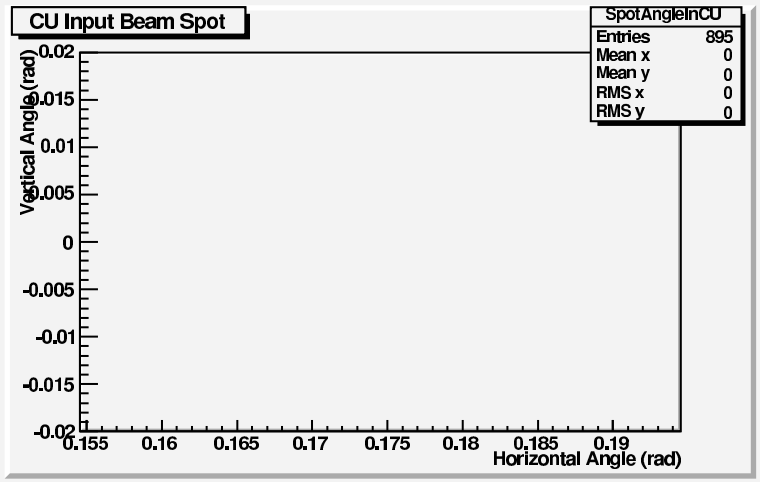

CU Input Horizontal coordinate
HorCoordInCU
Entries 895
Mean 252.3
RMS 26.18
Position (mm)

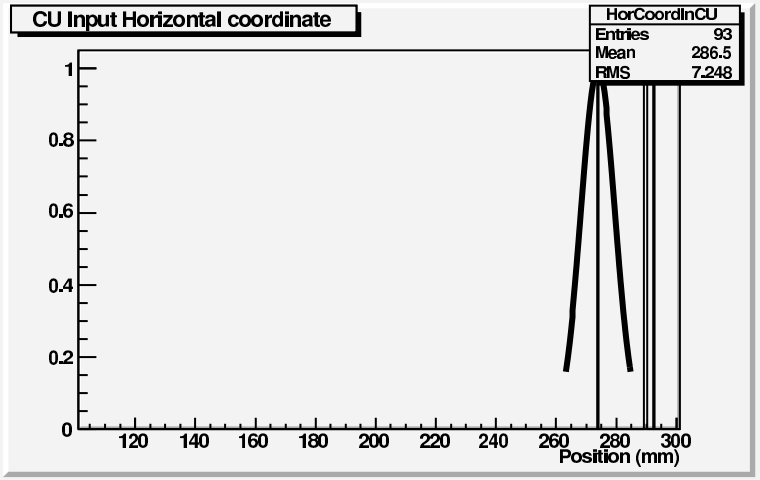

CU Input vertical coordinate
VertCoordInCU
Entries 895
Mean 34.09
RMS 6.04
Position (mm)

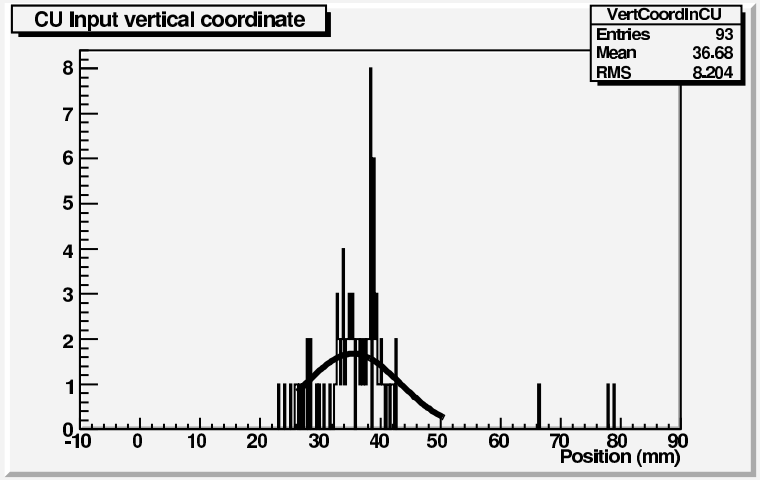

CU Input horizontal angle
HorAngleInCU
Entries 895
Mean 0.163
RMS 0
Angle (rad)

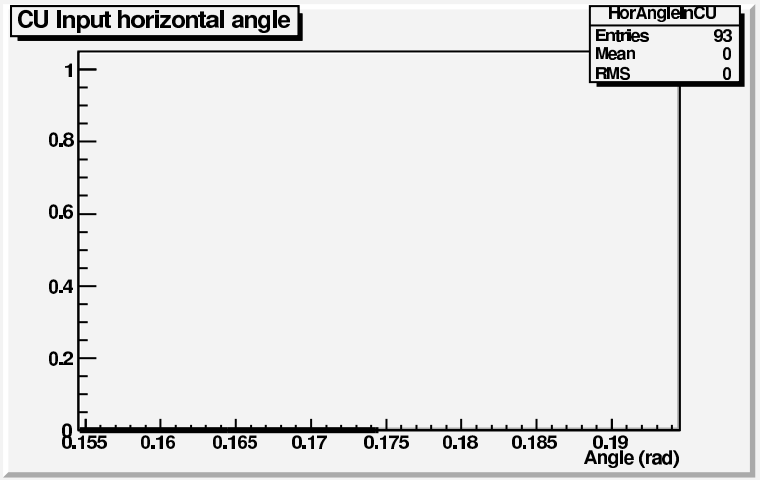

CU Input vertical angle
VertAngleInCU
Entries 895
Mean 0.005635
RMS 0.001511
Angle (rad)

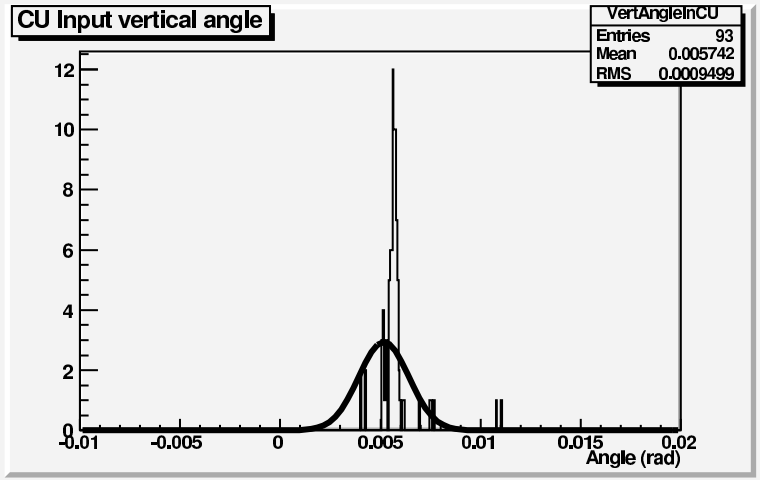

CU Input Beam Spot
SpotCoordInCU
Entries 895
Mean x 235.9
Mean y 37.3
RMS x 5.361
RMS y 8.143
Vertical Position (mm)
Horizontal Position (mm)

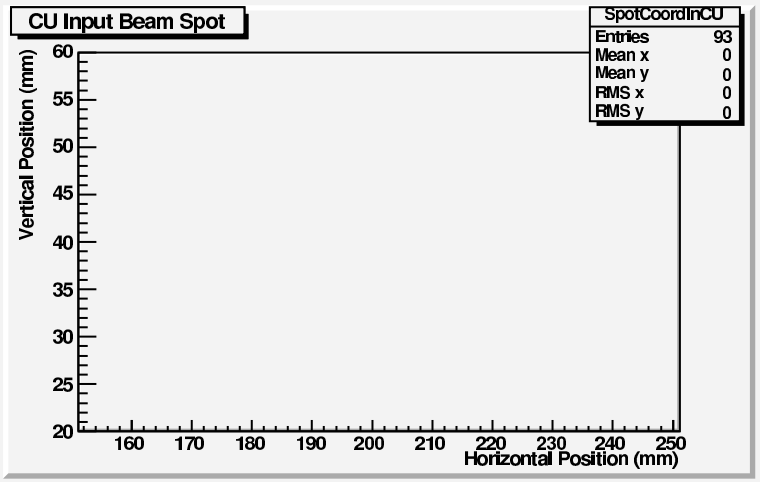

CU Input Beam Spot
SpotAngleInCU
Entries 895
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

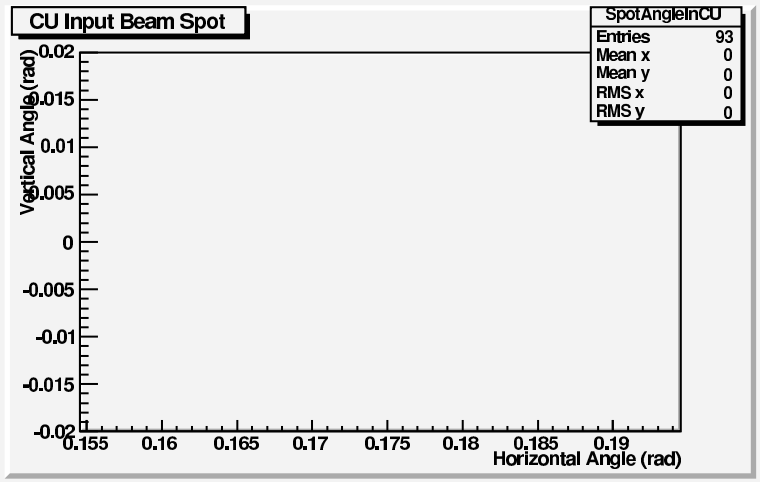

CU Input Horizontal coordinate
HorCoordInCU
Entries 93
Mean 286.5
RMS 7.248
Position (mm)

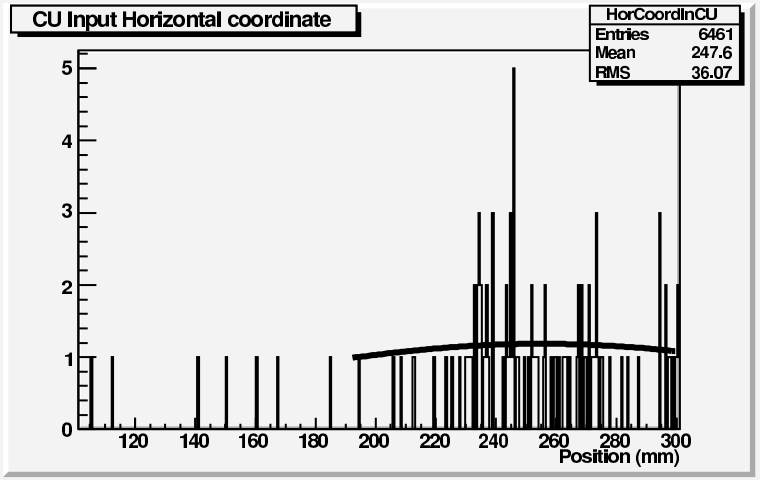

CU Input vertical coordinate
VertCoordInCU
Entries 93
Mean 36.68
RMS 8.204
Position (mm)

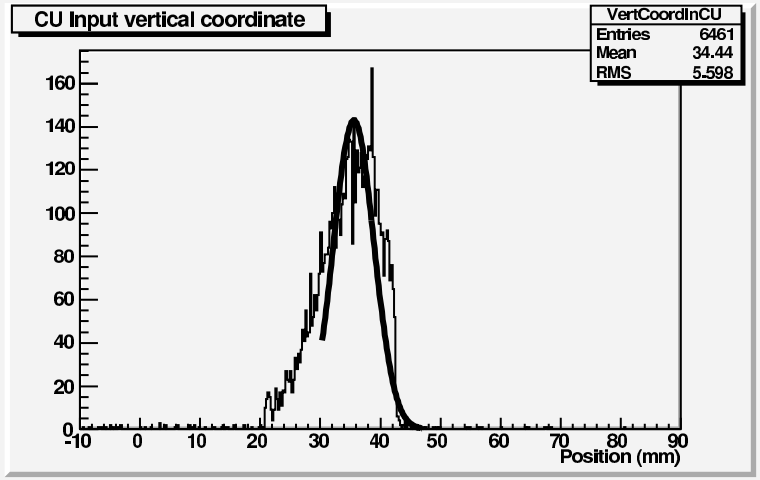

CU Input horizontal angle
HorAngleInCU
Entries 93
Mean 0
RMS 0
Angle (rad)

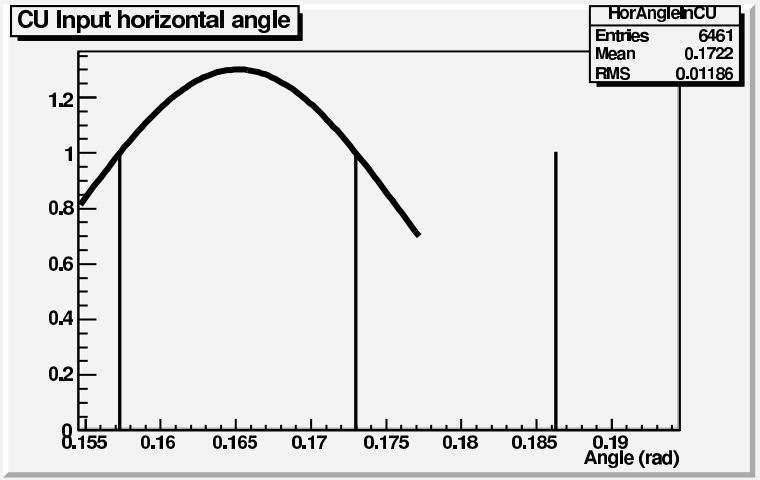

CU Input vertical angle
VertAngleInCU
Entries 93
Mean 0.005742
RMS 0.0009499
Angle (rad)

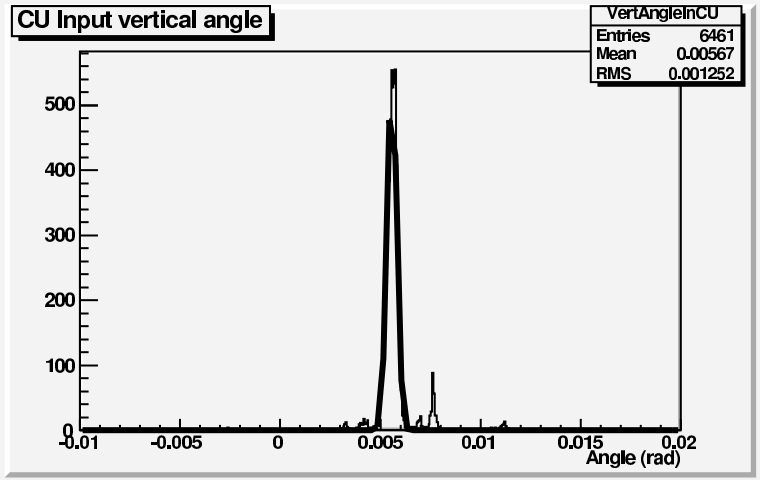

CU Input Beam Spot
SpotCoordInCU
Entries 93
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Position (mm)
Horizontal Position (mm)

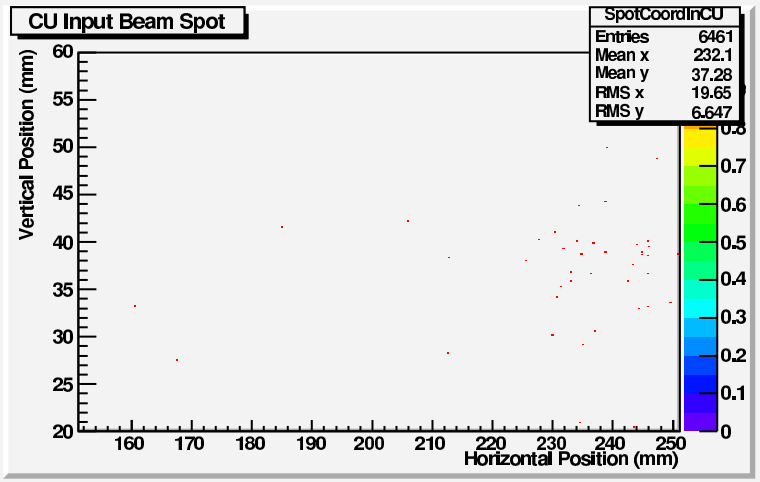

CU Input Beam Spot
SpotAngleInCU
Entries 93
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

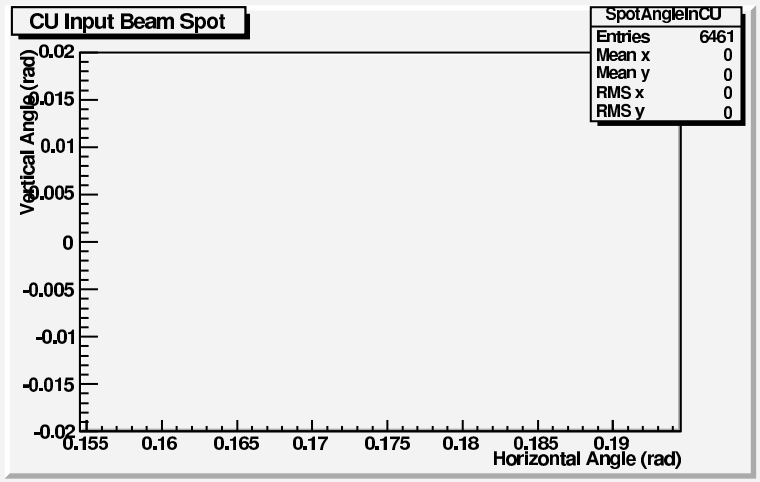

CU Input Horizontal coordinate
HorCoordInCU
Entries 6461
Mean 247.6
RMS 36.07
Position (mm)

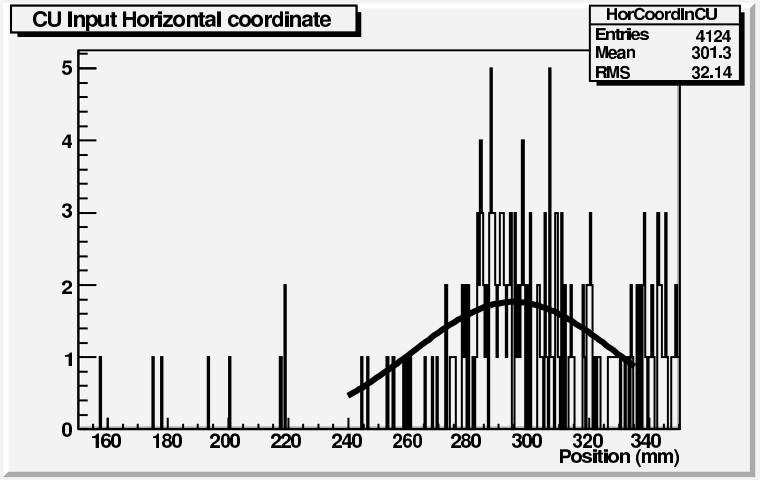

CU Input vertical coordinate
VertCoordInCU
Entries 6461
Mean 34.44
RMS 5.598
Position (mm)

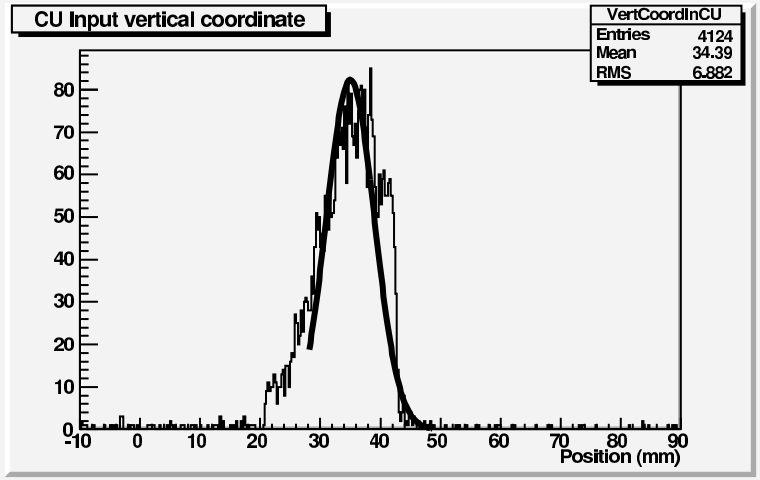

CU Input horizontal angle
HorAngleInCU
Entries 6461
Mean 0.1722
RMS 0.01186
Angle (rad)

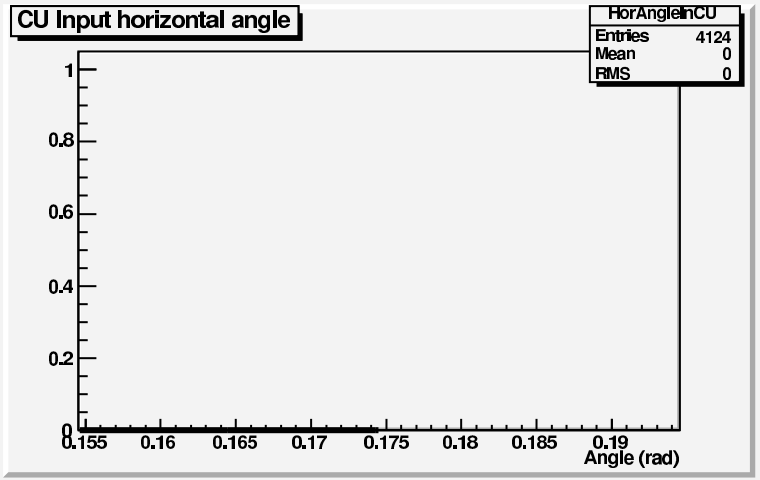

CU Input vertical angle
VertAngleInCU
Entries 6461
Mean 0.00567
RMS 0.001252
Angle (rad)

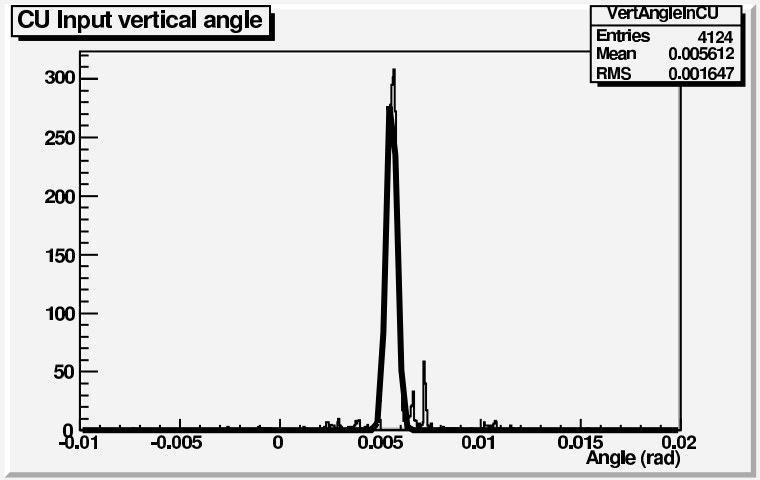

CU Input Beam Spot
SpotCoordInCU
Entries 6461
Mean x 232.1
Mean y 37.28
RMS x 19.65
RMS y 6.647
Vertical Position (mm)
Horizontal Position (mm)

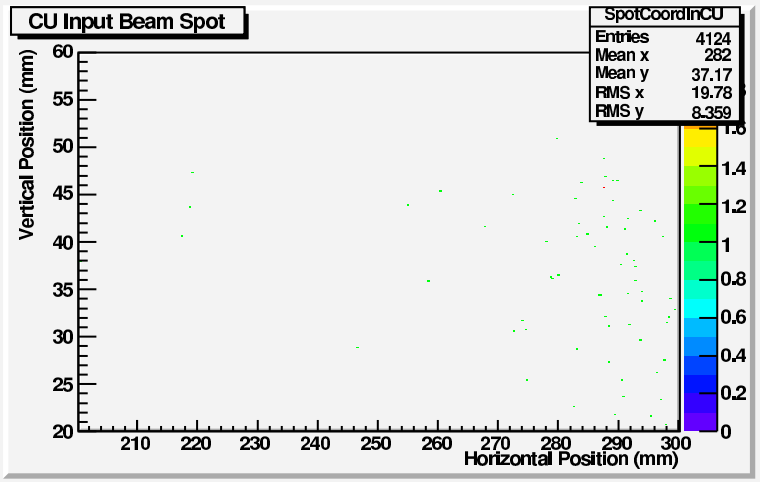

CU Input Beam Spot
SpotAngleInCU
Entries 6461
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

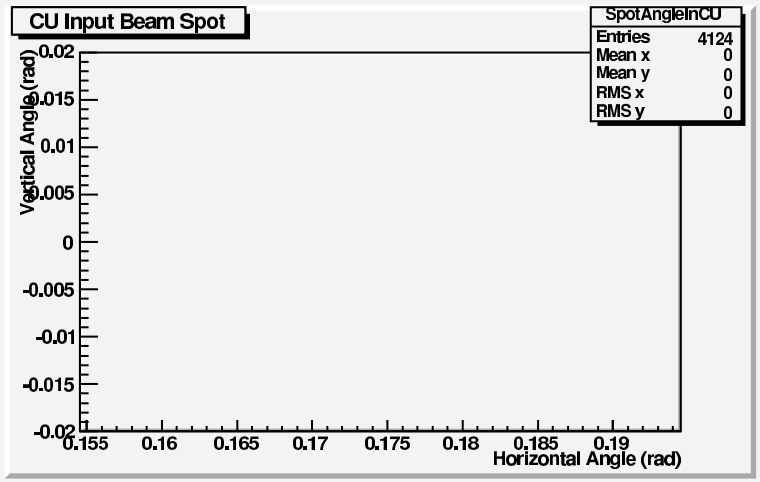

CU Input Horizontal coordinate
HorCoordInCU
Entries 4124
Mean 301.3
RMS 32.14
Position (mm)

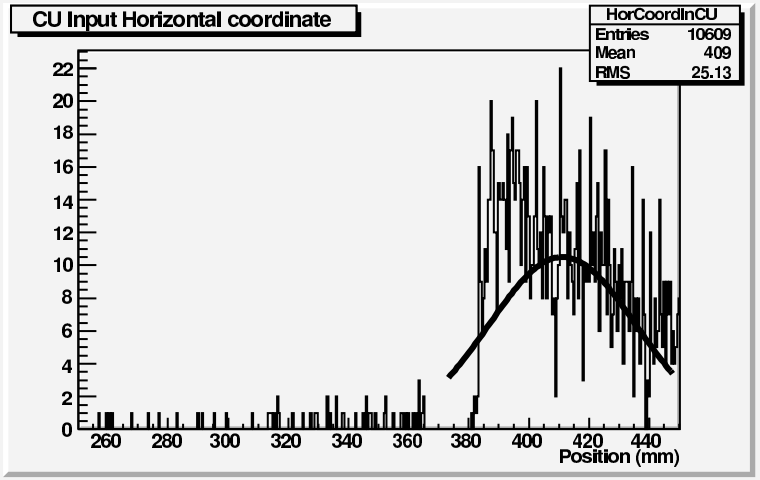

CU Input vertical coordinate
VertCoordInCU
Entries 4124
Mean 34.39
RMS 6.882
Position (mm)

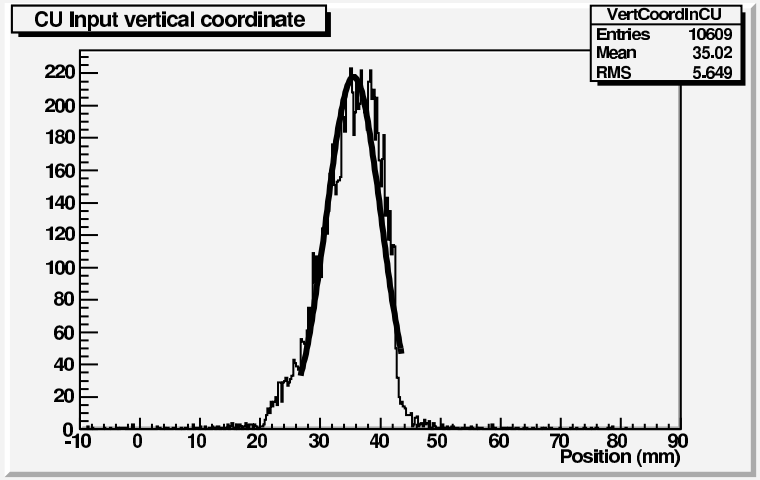

CU Input horizontal angle
HorAngleInCU
Entries 4124
Mean 0
RMS 0
Angle (rad)

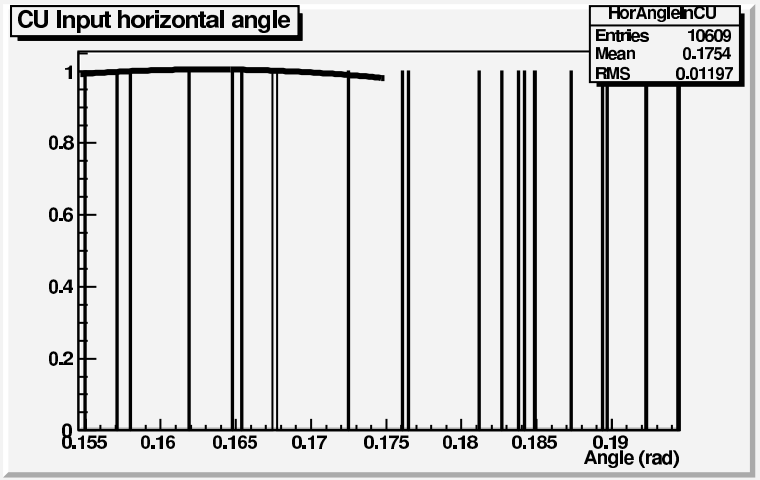

CU Input vertical angle
VertAngleInCU
Entries 4124
Mean 0.005612
RMS 0.001647
Angle (rad)

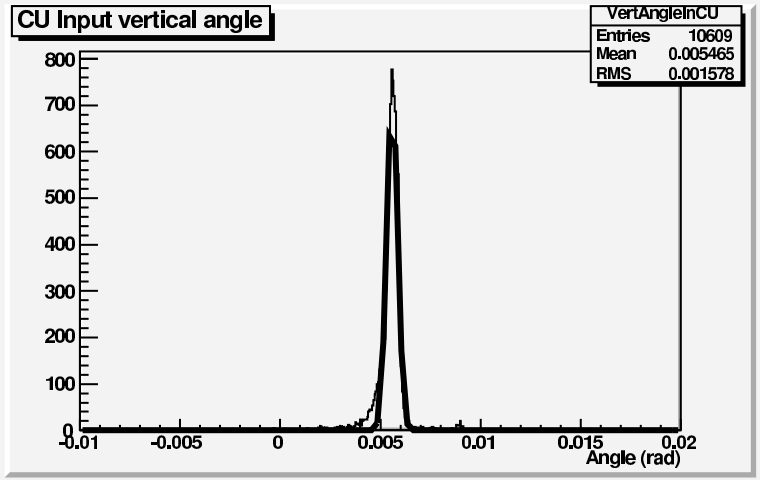

CU Input Beam Spot
SpotCoordInCU
Entries 4124
Mean x 282
Mean y 37.17
RMS x 19.78
RMS y 8.359
Vertical Position (mm)
Horizontal Position (mm)

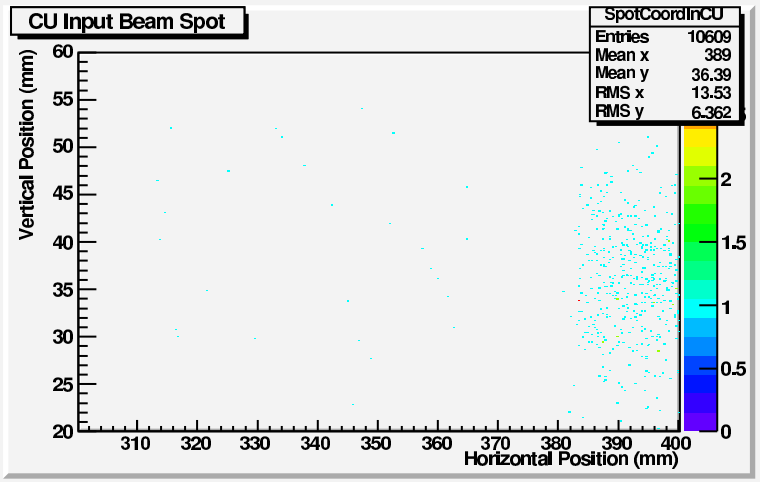

CU Input Beam Spot
SpotAngleInCU
Entries 4124
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

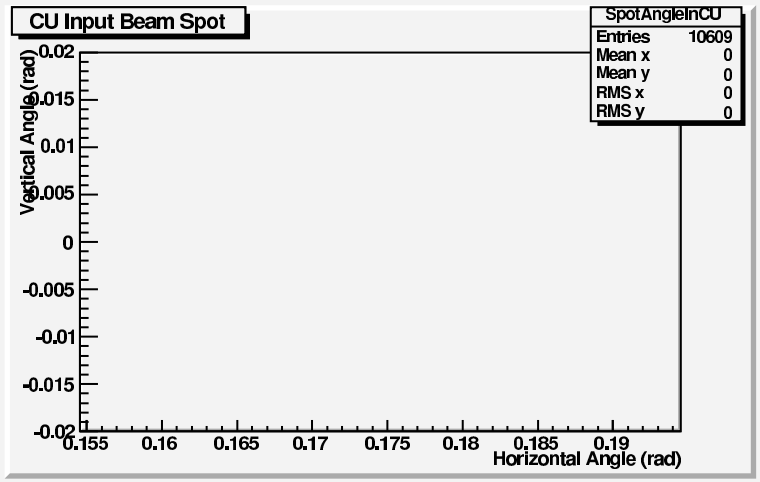

CU Input Horizontal coordinate
HorCoordInCU
Entries 10609
Mean 409
RMS 25.13
Position (mm)

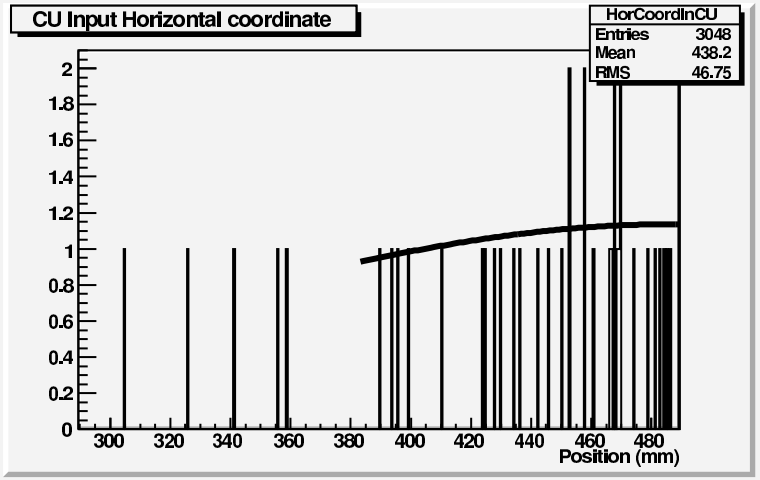

CU Input vertical coordinate
VertCoordInCU
Entries 10609
Mean 35.02
RMS 5.649
Position (mm)

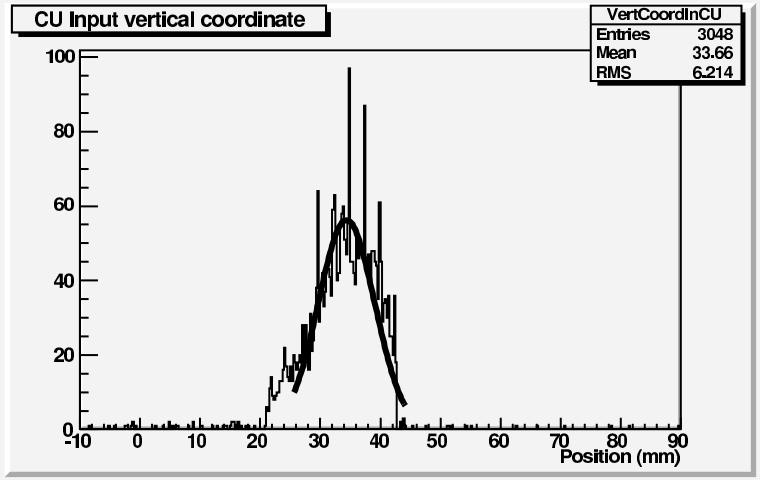

CU Input horizontal angle
HorAngleInCU
Entries 10609
Mean 0.1754
RMS 0.01197
Angle (rad)

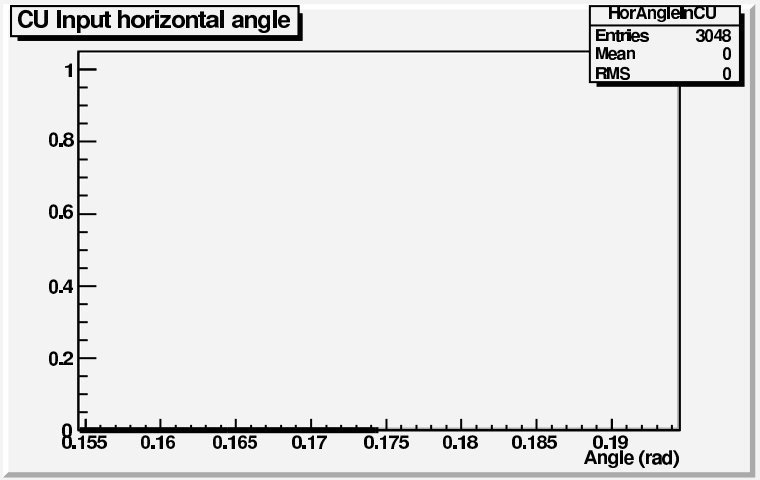

CU Input vertical angle
VertAngleInCU
Entries 10609
Mean 0.005465
RMS 0.001578
Angle (rad)

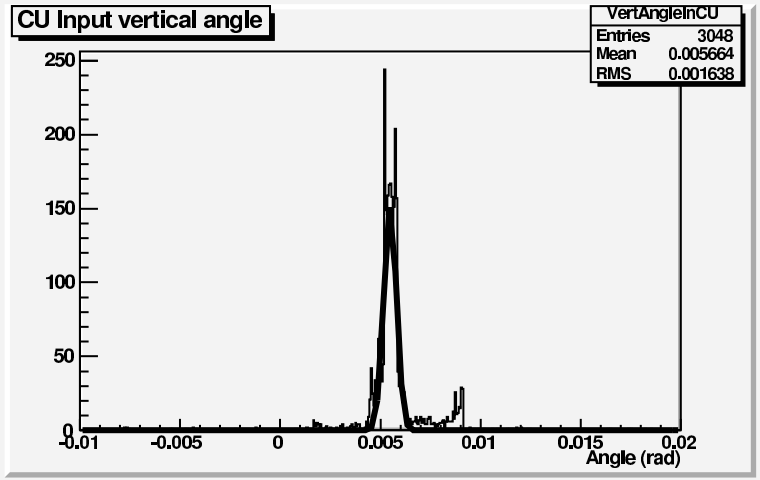

CU Input Beam Spot
SpotCoordInCU
Entries 10609
Mean x 389
Mean y 36.39
RMS x 13.53
RMS y 6.362
Vertical Position (mm)
Horizontal Position (mm)

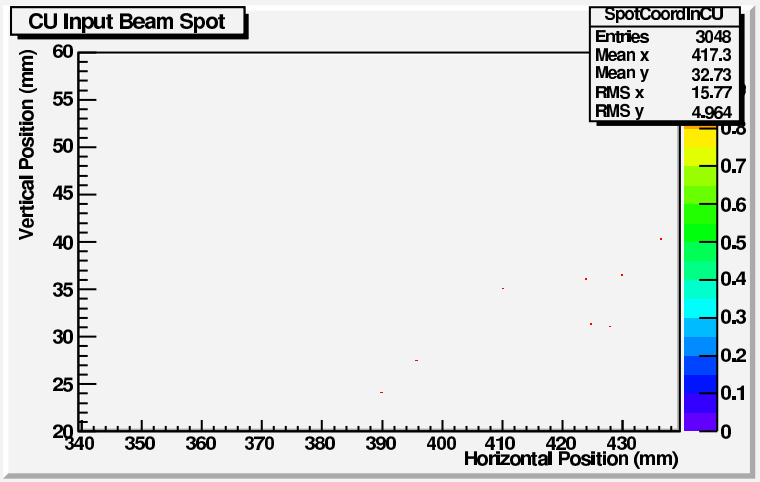

CU Input Beam Spot
SpotAngleInCU
Entries 10609
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

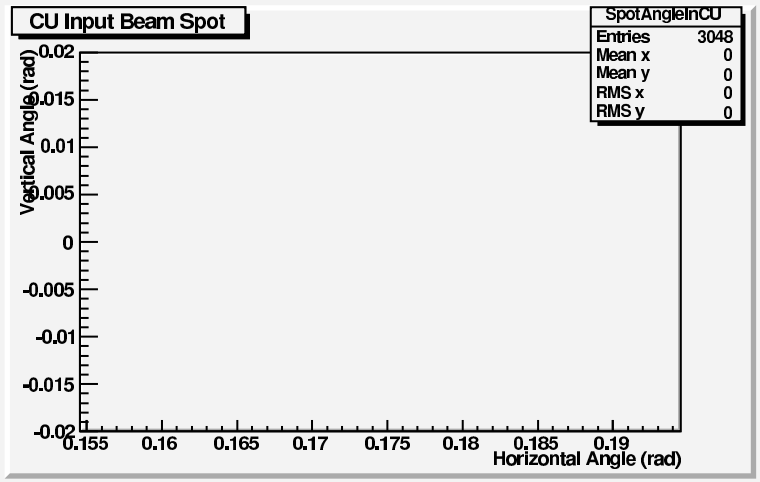

CU Input Horizontal coordinate
HorCoordInCU
Entries 3048
Mean 438.2
RMS 46.75
Position (mm)

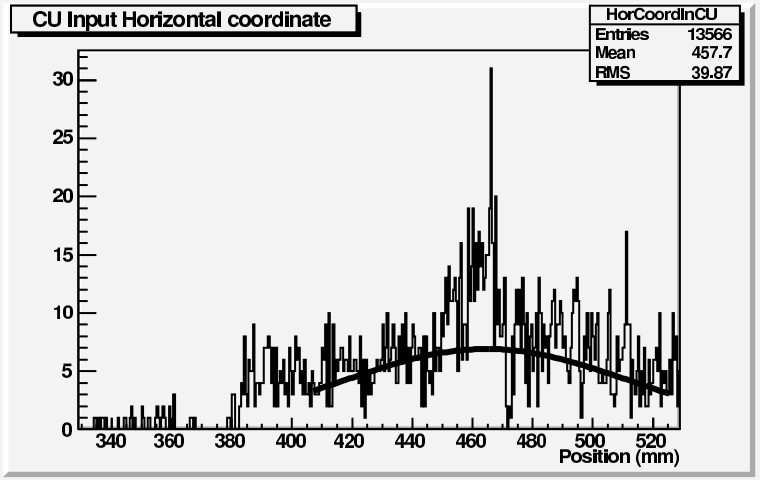

CU Input vertical coordinate
VertCoordInCU
Entries 3048
Mean 33.66
RMS 6.214
Position (mm)

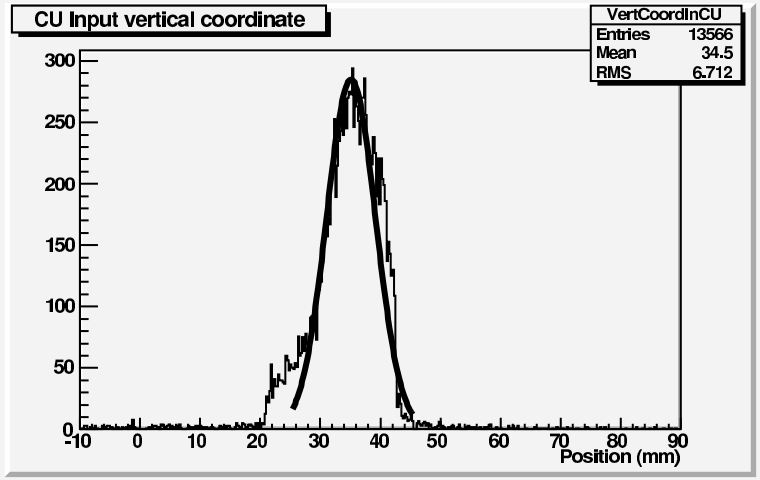

CU Input horizontal angle
HorAngleInCU
Entries 3048
Mean 0
RMS 0
Angle (rad)

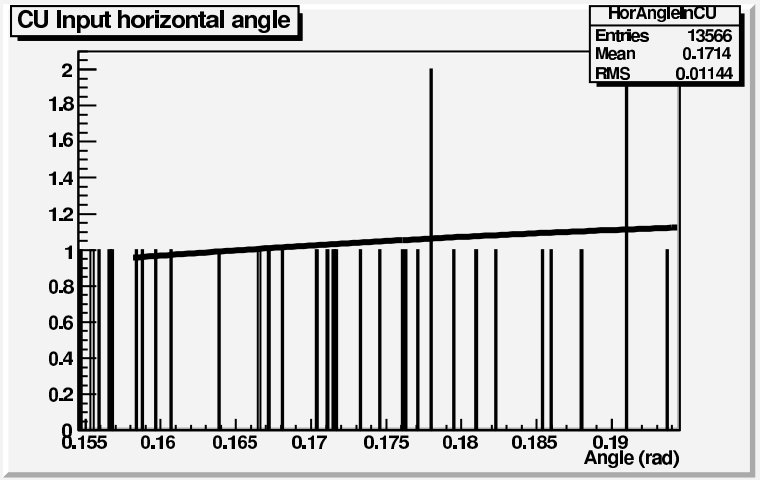

CU Input vertical angle
VertAngleInCU
Entries 3048
Mean 0.005664
RMS 0.001638
Angle (rad)

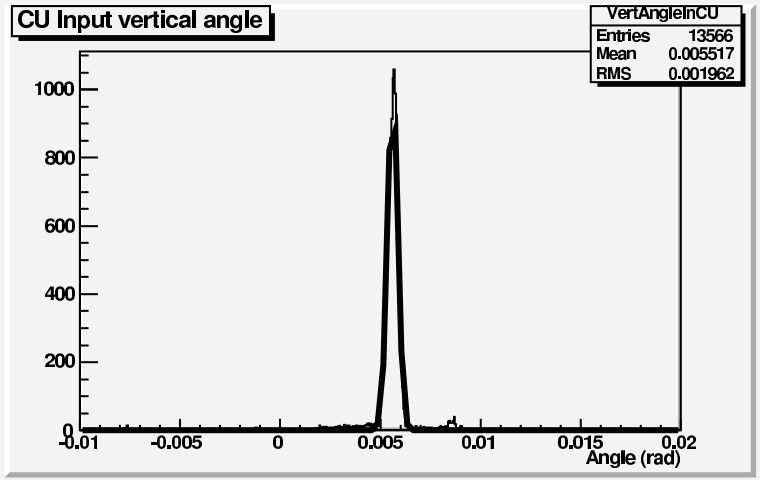

CU Input Beam Spot
SpotCoordInCU
Entries 3048
Mean x 417.3
Mean y 32.73
RMS x 15.77
RMS y 4.964
Vertical Position (mm)
Horizontal Position (mm)

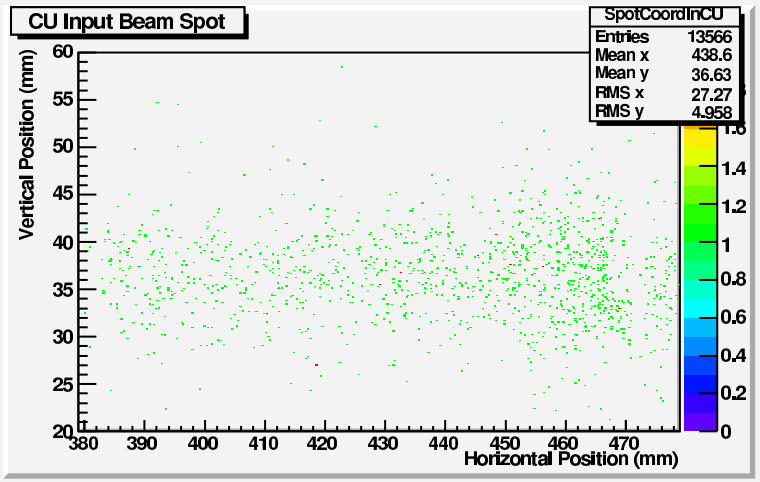

CU Input Beam Spot
SpotAngleInCU
Entries 3048
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

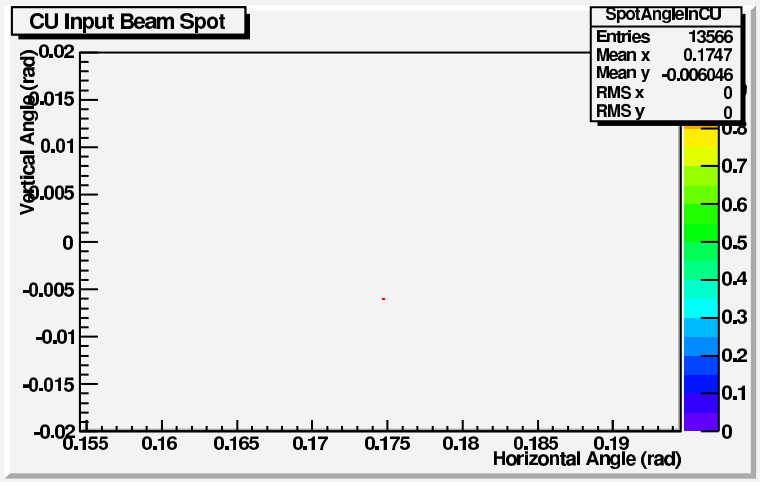

CU Input Horizontal coordinate
HorCoordInCU
Entries 13566
Mean 457.7
RMS 39.87
Position (mm)

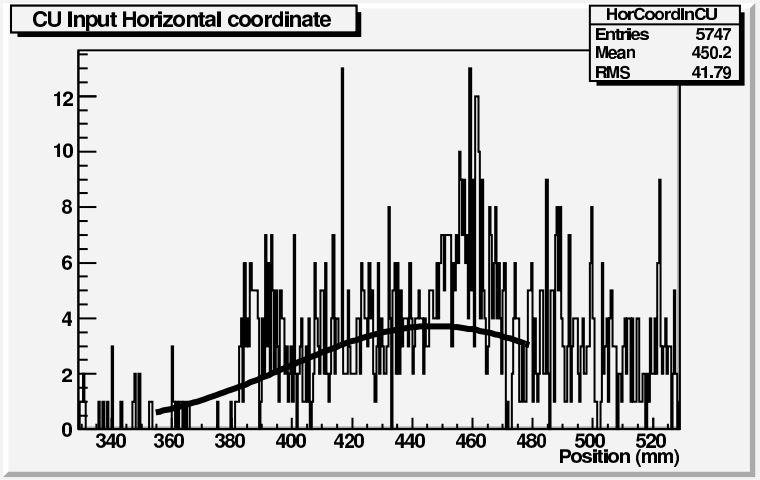

CU Input vertical coordinate
VertCoordInCU
Entries 13566
Mean 34.5
RMS 6.712
Position (mm)

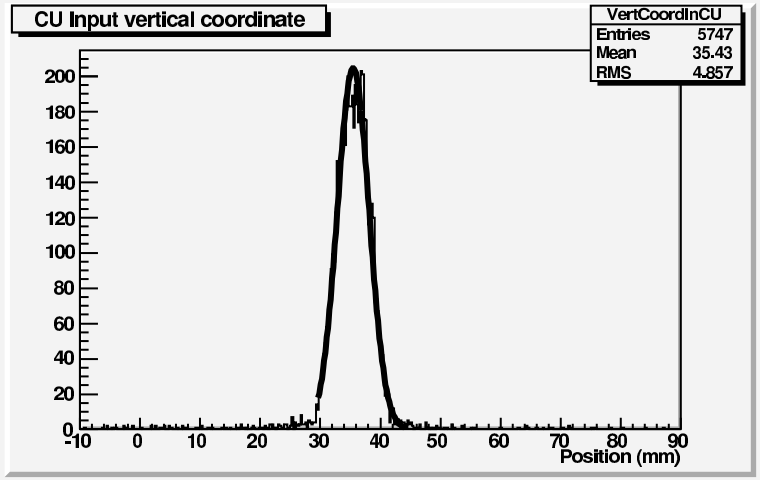

CU Input horizontal angle
HorAngleInCU
Entries 13566
Mean 0.1714
RMS 0.01144
Angle (rad)

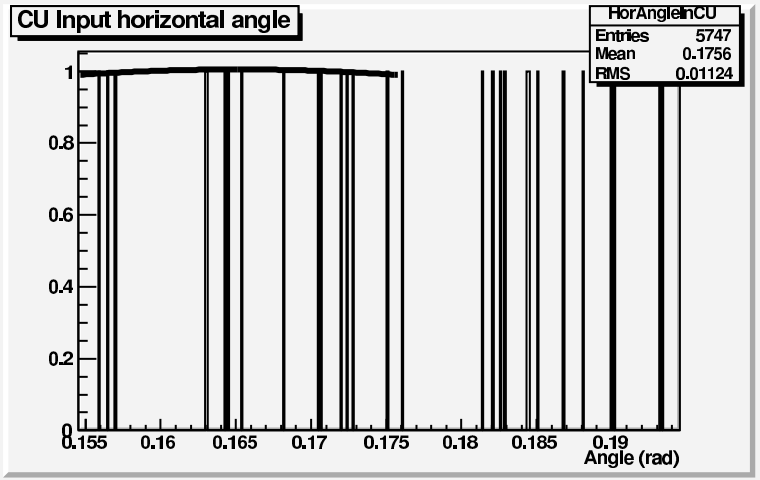

CU Input vertical angle
VertAngleInCU
Entries 13566
Mean 0.005517
RMS 0.001962
Angle (rad)

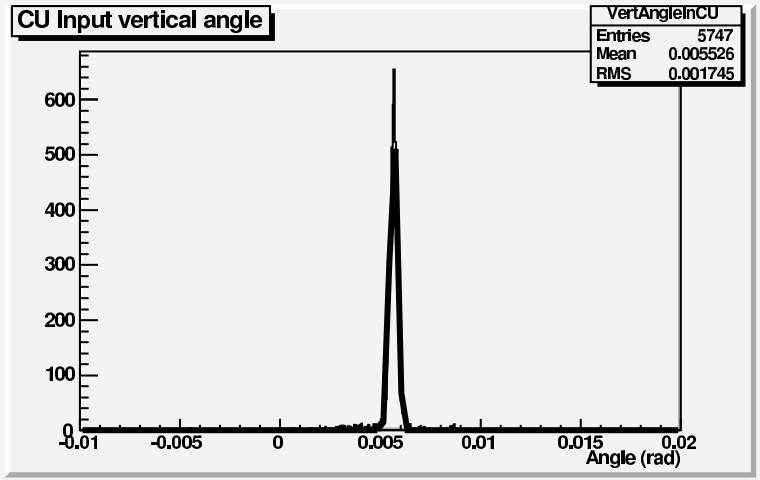

CU Input Beam Spot
SpotCoordInCU
Entries 13566
Mean x 438.6
Mean y 36.63
RMS x 27.27
RMS y 4.958
Vertical Position (mm)
Horizontal Position (mm)

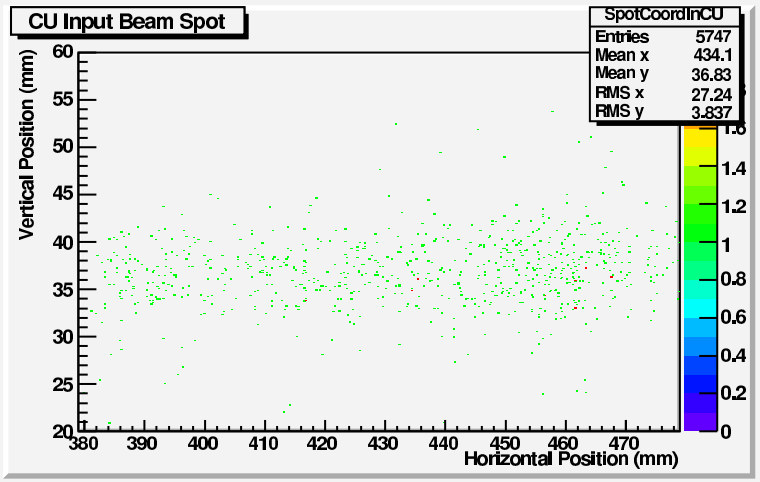

CU Input Beam Spot
SpotAngleInCU
Entries 13566
Mean x 0.1747
Mean y -0.006046
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

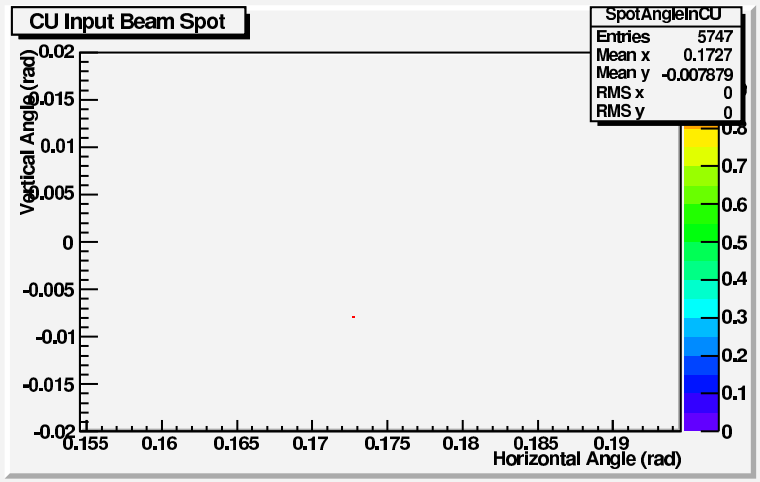

CU Input Horizontal coordinate
HorCoordInCU
Entries 5747
Mean 450.2
RMS 41.79
Position (mm)

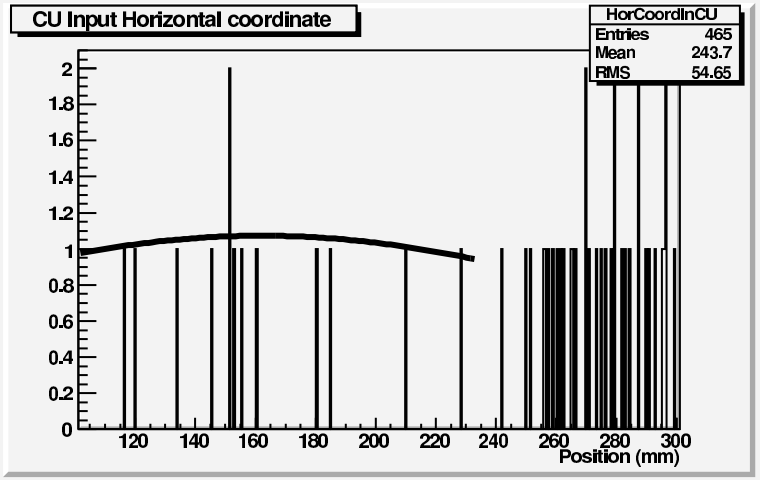

CU Input vertical coordinate
VertCoordInCU
Entries 5747
Mean 35.43
RMS 4.857
Position (mm)

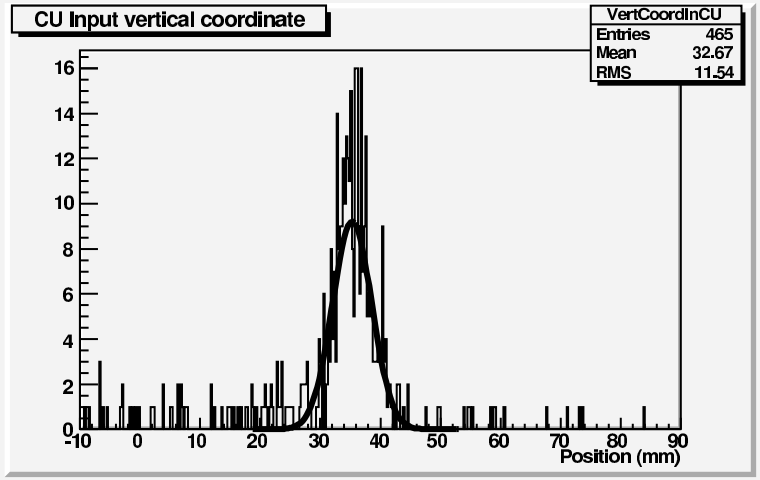

CU Input horizontal angle
HorAngleInCU
Entries 5747
Mean 0.1756
RMS 0.01124
Angle (rad)

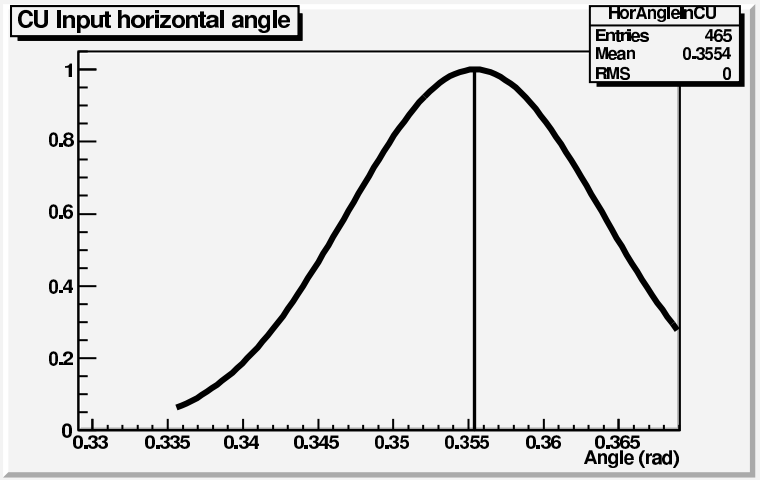

CU Input vertical angle
VertAngleInCU
Entries 5747
Mean 0.005526
RMS 0.001745
Angle (rad)

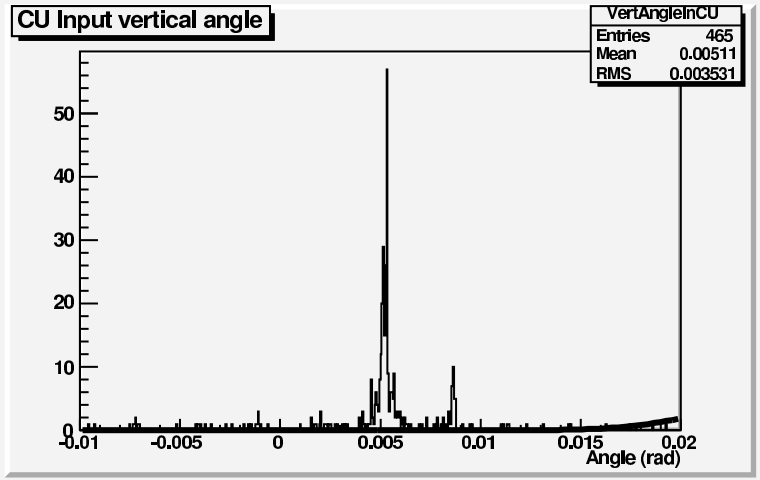

CU Input Beam Spot
SpotCoordInCU
Entries 5747
Mean x 434.1
Mean y 36.83
RMS x 27.24
RMS y 3.837
Vertical Position (mm)
Horizontal Position (mm)

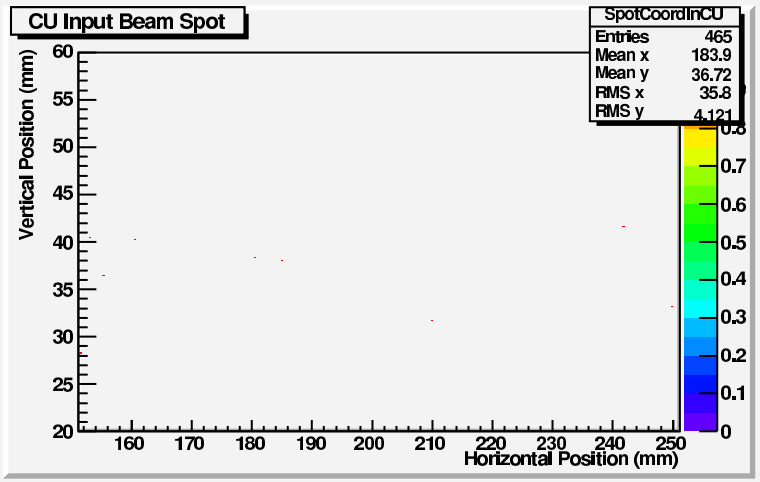

CU Input Beam Spot
SpotAngleInCU
Entries 5747
Mean x 0.1727
Mean y -0.007879
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

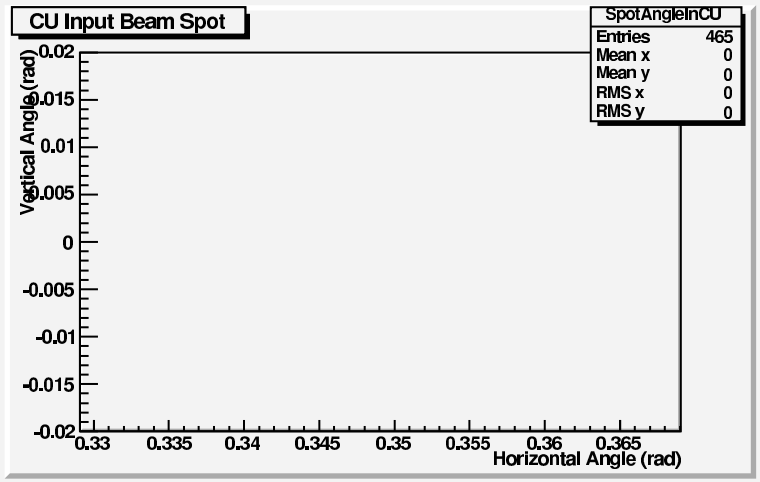

CU Input Horizontal coordinate
HorCoordInCU
Entries 465
Mean 243.7
RMS 54.65
Position (mm)

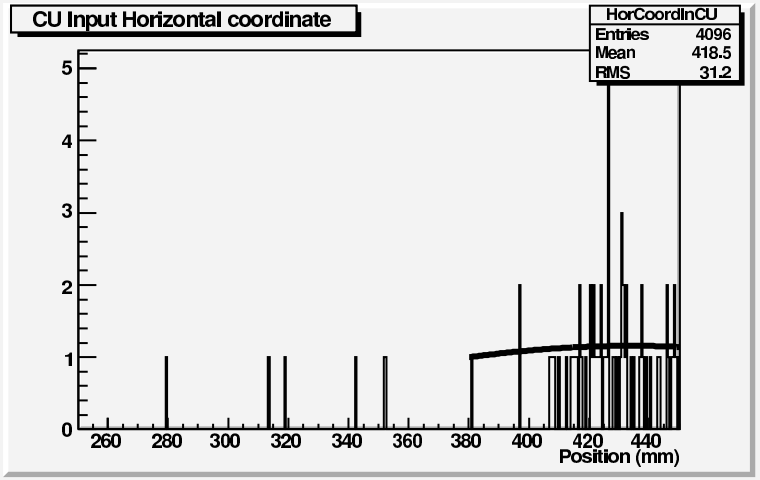

CU Input vertical coordinate
VertCoordInCU
Entries 465
Mean 32.67
RMS 11.54
Position (mm)

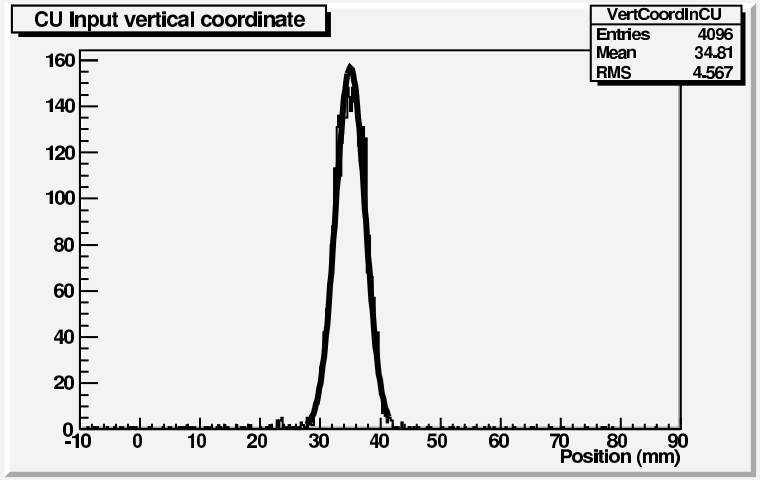

CU Input horizontal angle
HorAngleInCU
Entries 465
Mean 0.3554
RMS 0
Angle (rad)

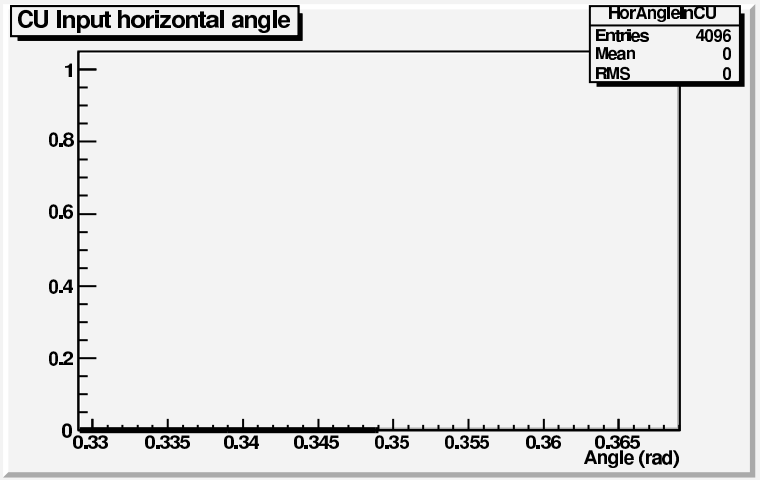

CU Input vertical angle
VertAngleInCU
Entries 465
Mean 0.00511
RMS 0.003531
Angle (rad)

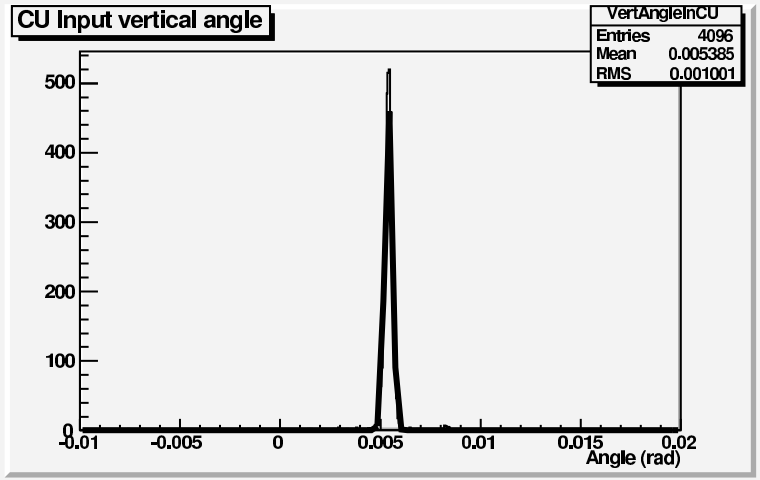

CU Input Beam Spot
SpotCoordInCU
Entries 465
Mean x 183.9
Mean y 36.72
RMS x 35.8
RMS y 4.121
Vertical Position (mm)
Horizontal Position (mm)

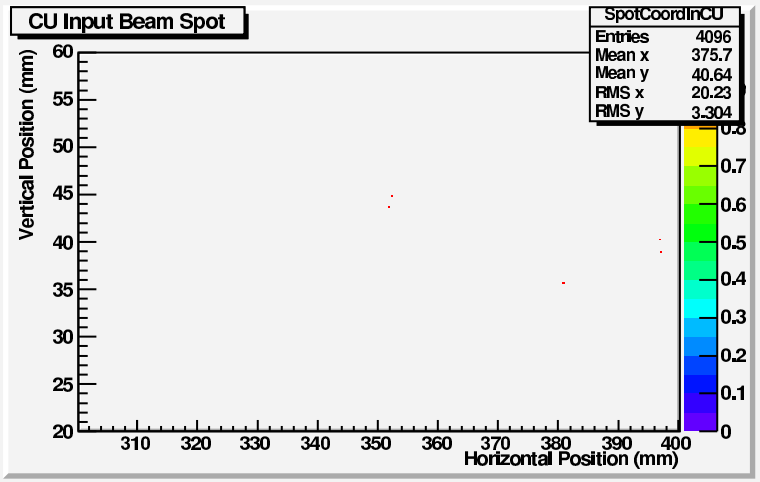

CU Input Beam Spot
SpotAngleInCU
Entries 465
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

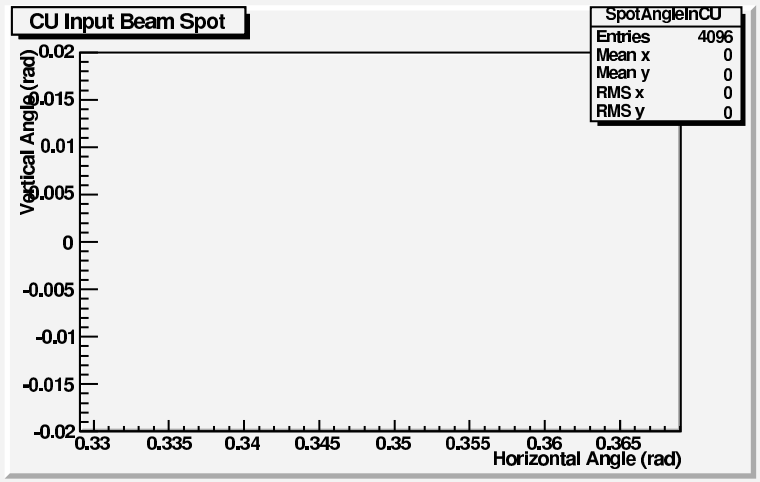

CU Input Horizontal coordinate
HorCoordInCU
Entries 4096
Mean 418.5
RMS 31.2
Position (mm)

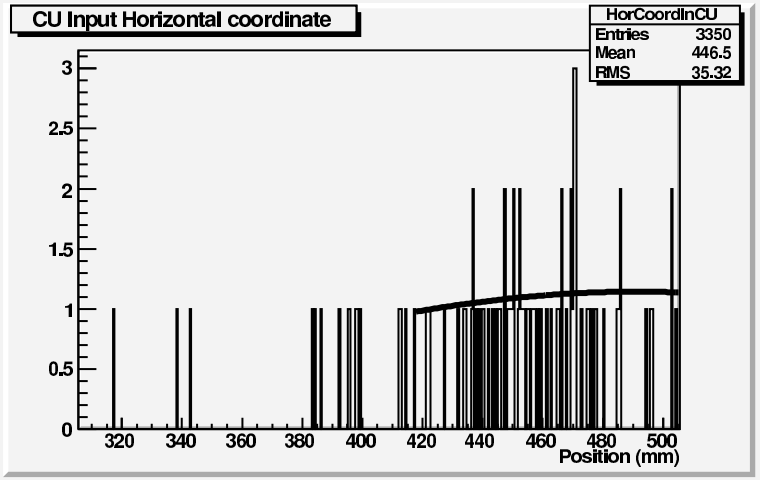

CU Input vertical coordinate
VertCoordInCU
Entries 4096
Mean 34.81
RMS 4.567
Position (mm)

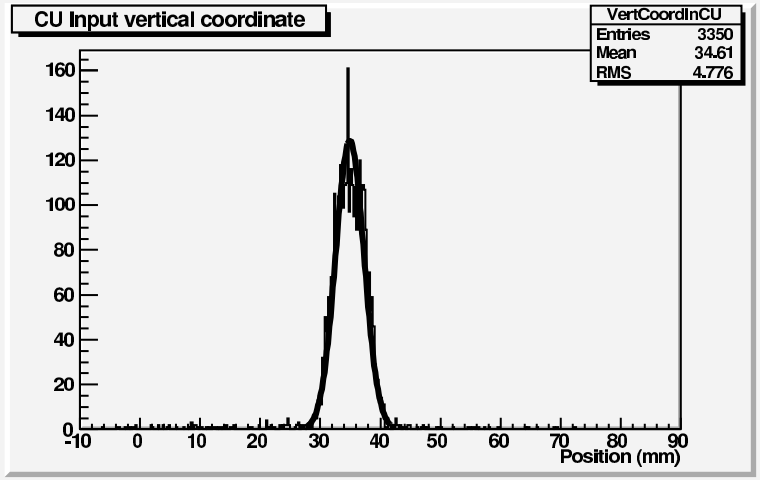

CU Input horizontal angle
HorAngleInCU
Entries 4096
Mean 0
RMS 0
Angle (rad)

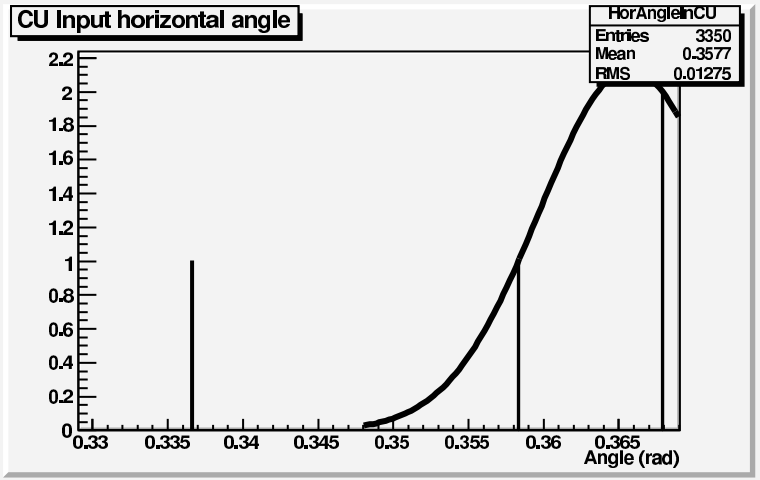

CU Input vertical angle
VertAngleInCU
Entries 4096
Mean 0.005385
RMS 0.001001
Angle (rad)

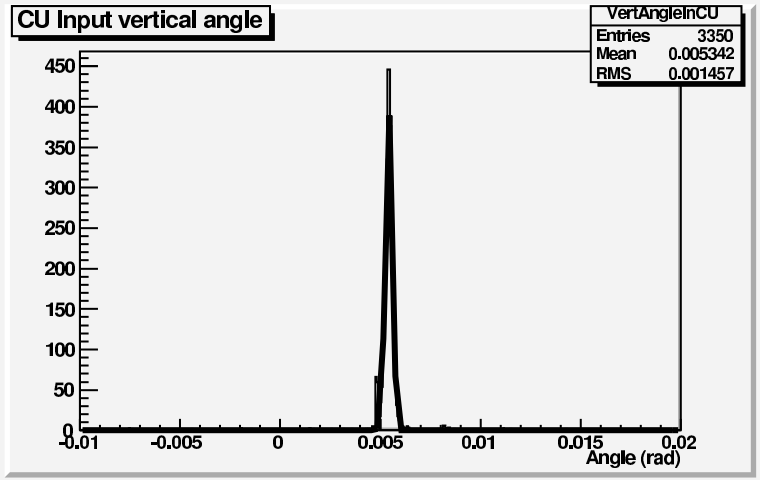

CU Input Beam Spot
SpotCoordInCU
Entries 4096
Mean x 375.7
Mean y 40.64
RMS x 20.23
RMS y 3.304
Vertical Position (mm)
Horizontal Position (mm)

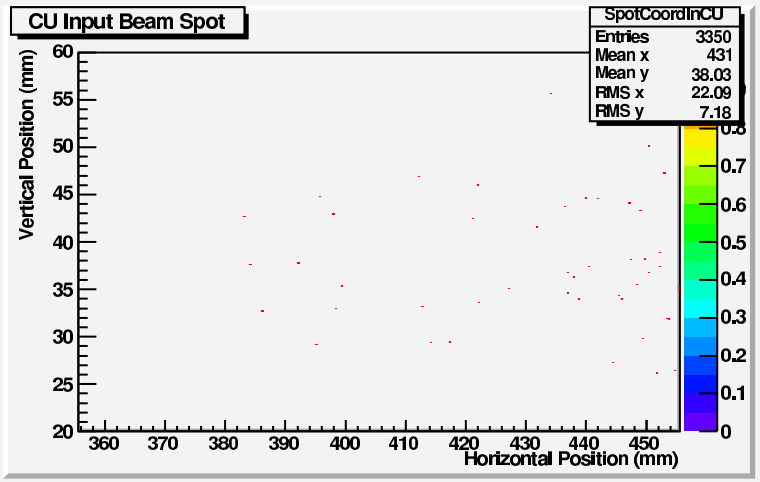

CU Input Beam Spot
SpotAngleInCU
Entries 4096
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

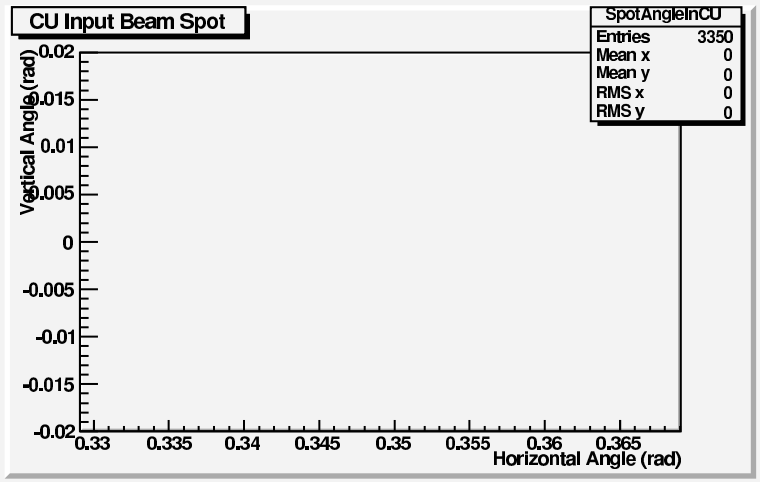

CU Input Horizontal coordinate
HorCoordInCU
Entries 3350
Mean 446.5
RMS 35.32
Position (mm)

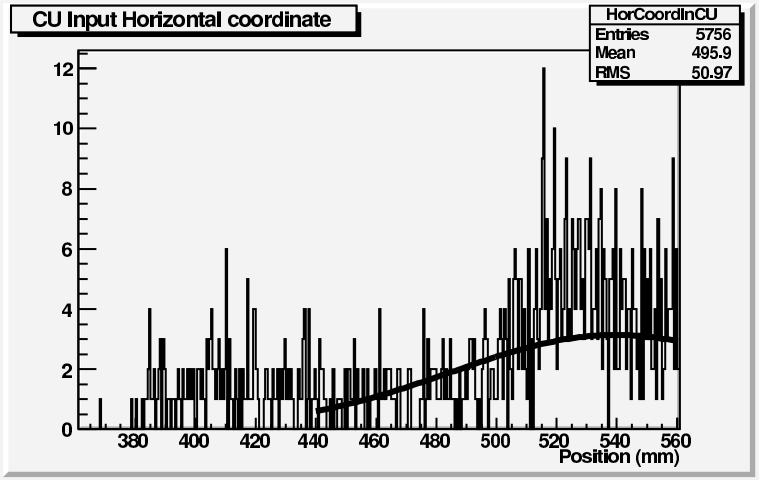

CU Input vertical coordinate
VertCoordInCU
Entries 3350
Mean 34.61
RMS 4.776
Position (mm)

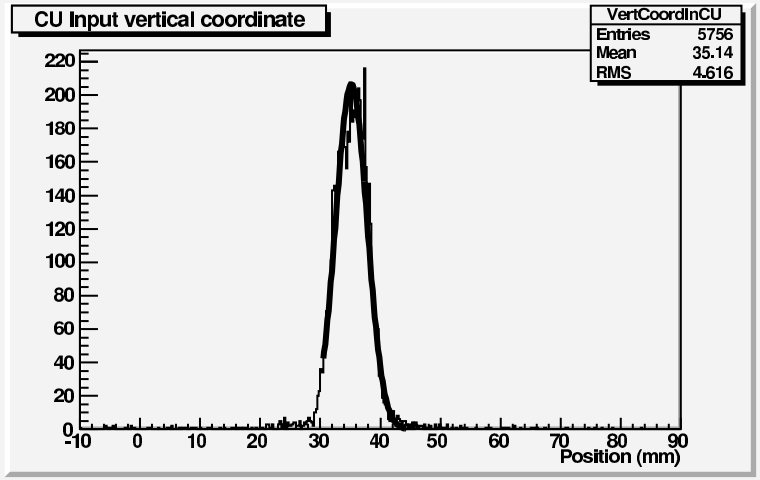

CU Input horizontal angle
HorAngleInCU
Entries 3350
Mean 0.3577
RMS 0.01275
Angle (rad)

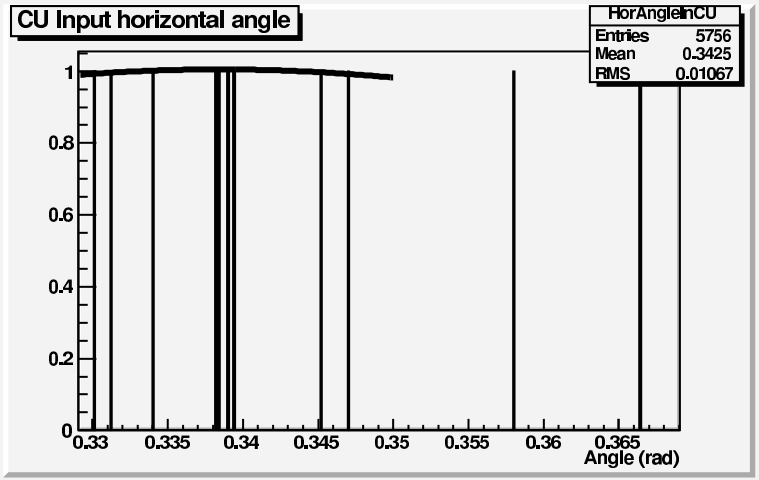

CU Input vertical angle
VertAngleInCU
Entries 3350
Mean 0.005342
RMS 0.001457
Angle (rad)

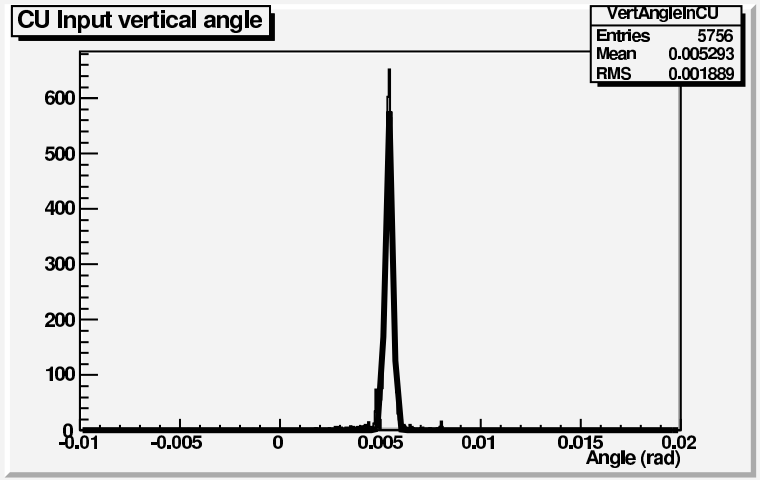

CU Input Beam Spot
SpotCoordInCU
Entries 3350
Mean x 431
Mean y 38.03
RMS x 22.09
RMS y 7.18
Vertical Position (mm)
Horizontal Position (mm)

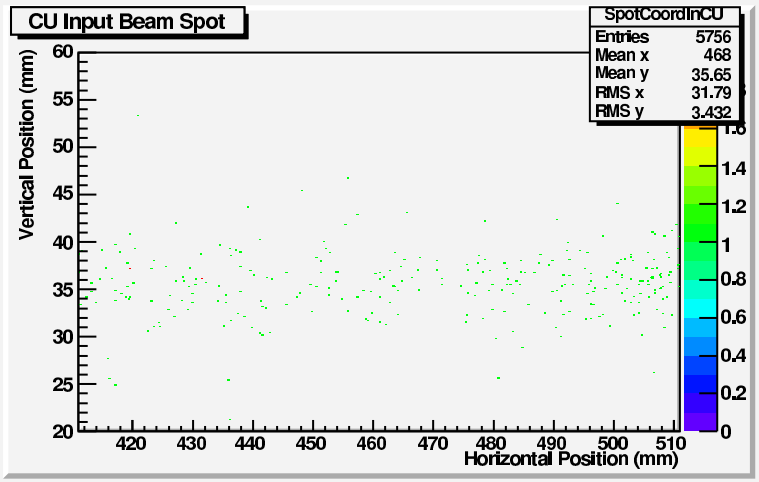

CU Input Beam Spot
SpotAngleInCU
Entries 3350
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

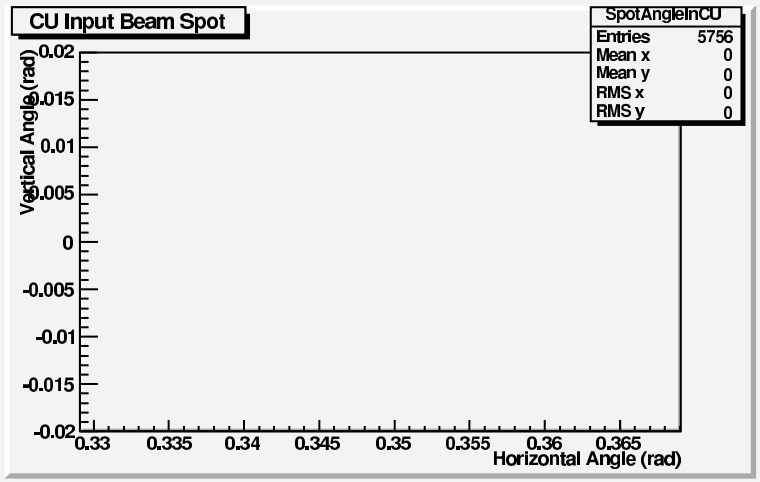

CU Input Horizontal coordinate
HorCoordInCU
Entries 5756
Mean 495.9
RMS 50.97
Position (mm)

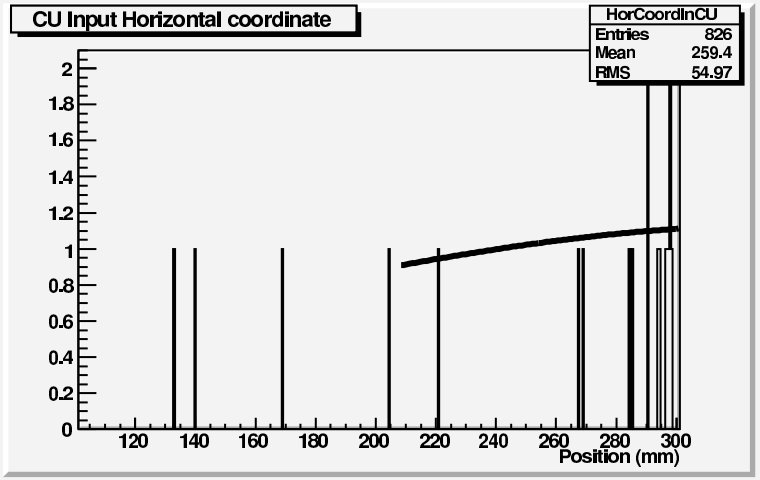

CU Input vertical coordinate
VertCoordInCU
Entries 5756
Mean 35.14
RMS 4.616
Position (mm)

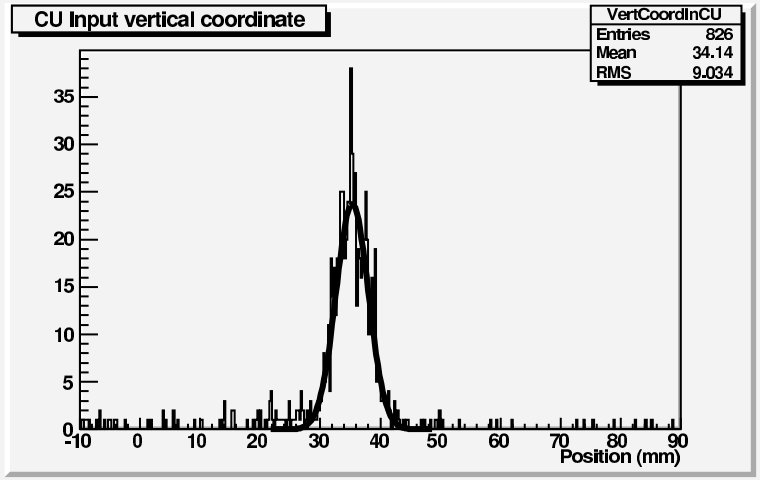

CU Input horizontal angle
HorAngleInCU
Entries 5756
Mean 0.3425
RMS 0.01067
Angle (rad)

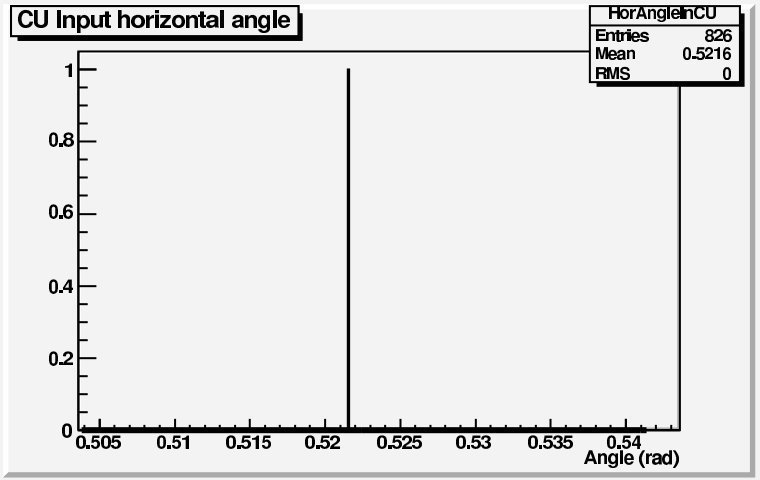

CU Input vertical angle
VertAngleInCU
Entries 5756
Mean 0.005293
RMS 0.001889
Angle (rad)

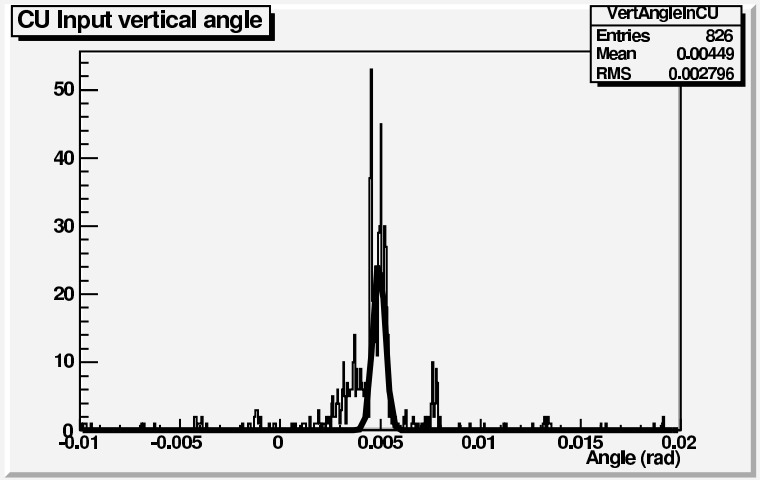

CU Input Beam Spot
SpotCoordInCU
Entries 5756
Mean x 468
Mean y 35.65
RMS x 31.79
RMS y 3.432
Vertical Position (mm)
Horizontal Position (mm)

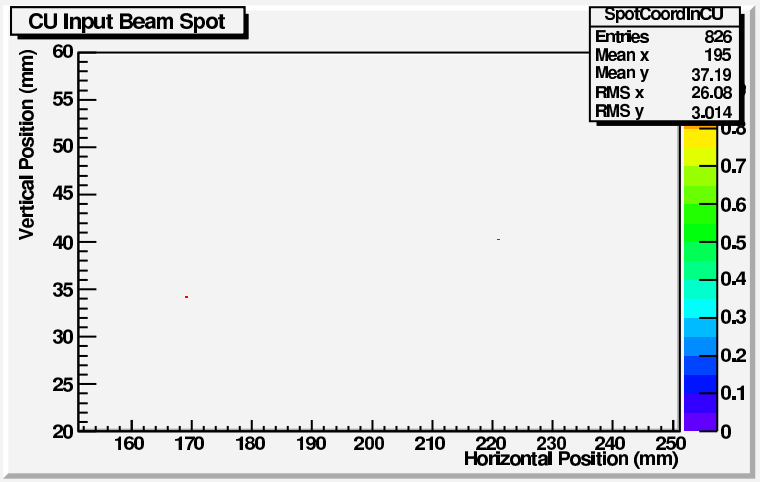

CU Input Beam Spot
SpotAngleInCU
Entries 5756
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

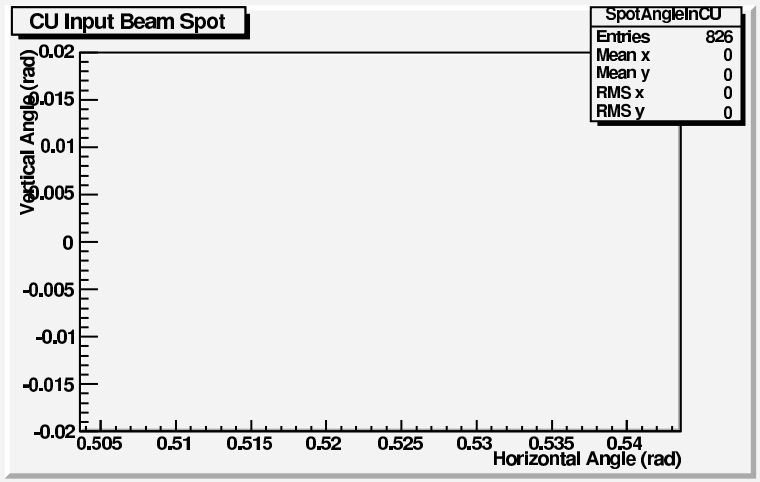

CU Input Horizontal coordinate
HorCoordInCU
Entries 826
Mean 259.4
RMS 54.97
Position (mm)

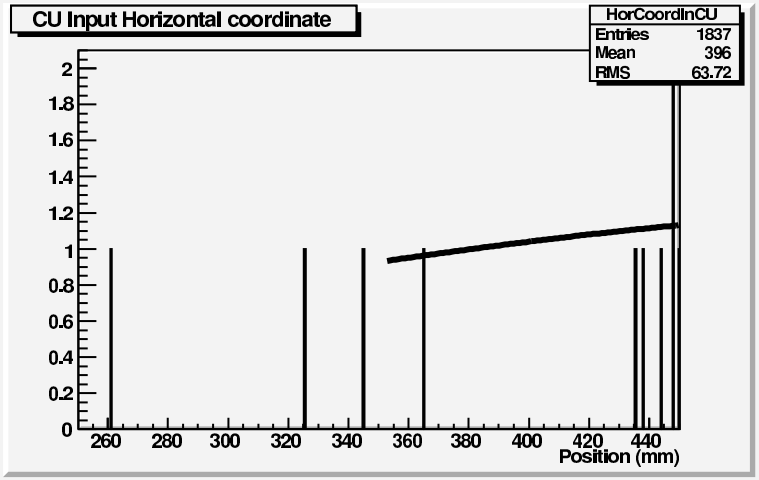

CU Input vertical coordinate
VertCoordInCU
Entries 826
Mean 34.14
RMS 9.034
Position (mm)

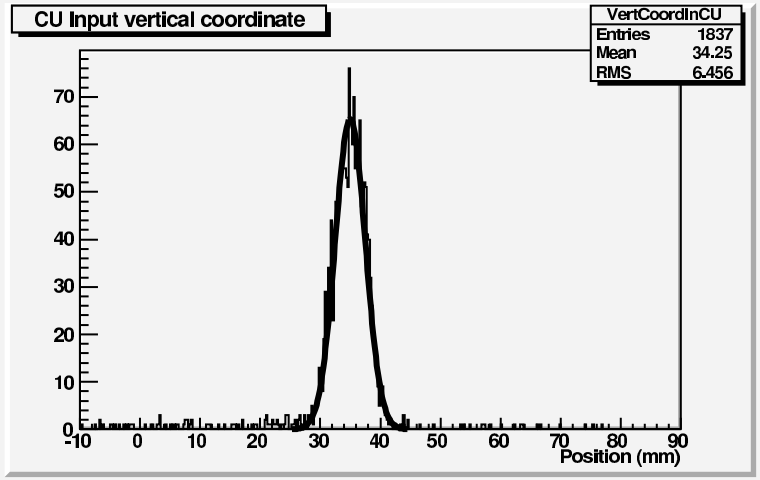

CU Input horizontal angle
HorAngleInCU
Entries 826
Mean 0.5216
RMS 0
Angle (rad)

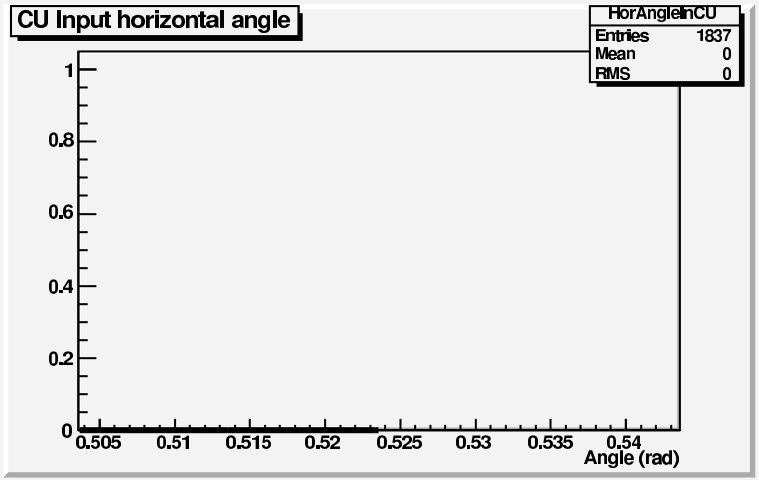

CU Input vertical angle
VertAngleInCU
Entries 826
Mean 0.00449
RMS 0.002796
Angle (rad)

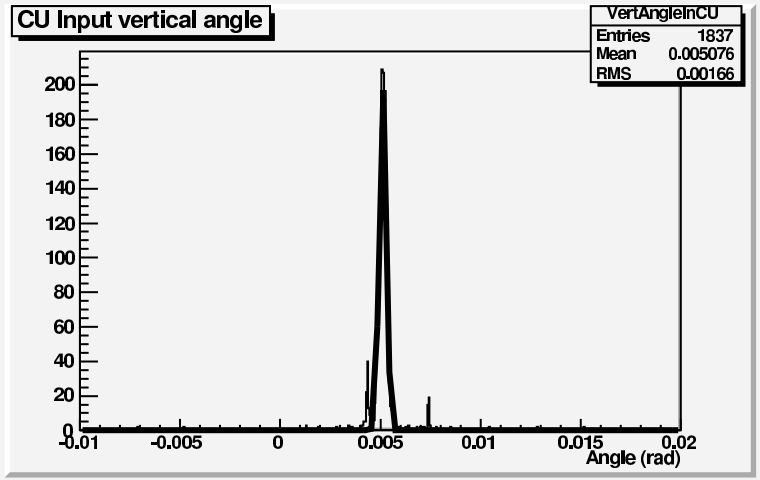

CU Input Beam Spot
SpotCoordInCU
Entries 826
Mean x 195
Mean y 37.19
RMS x 26.08
RMS y 3.014
Vertical Position (mm)
Horizontal Position (mm)

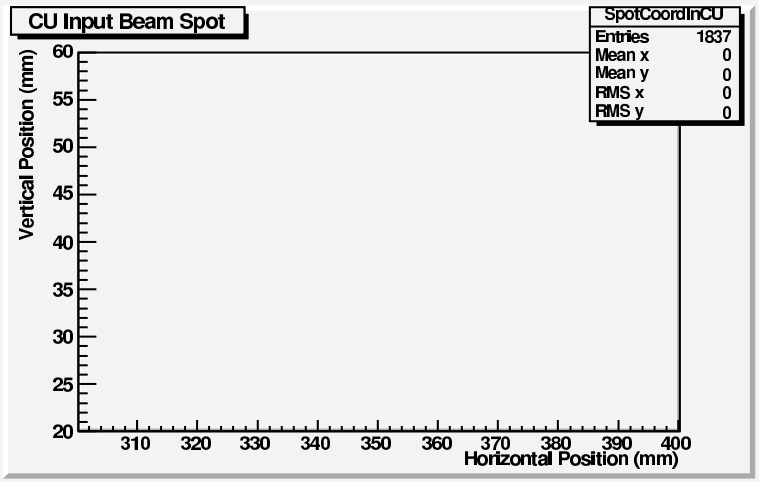

CU Input Beam Spot
SpotAngleInCU
Entries 826
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

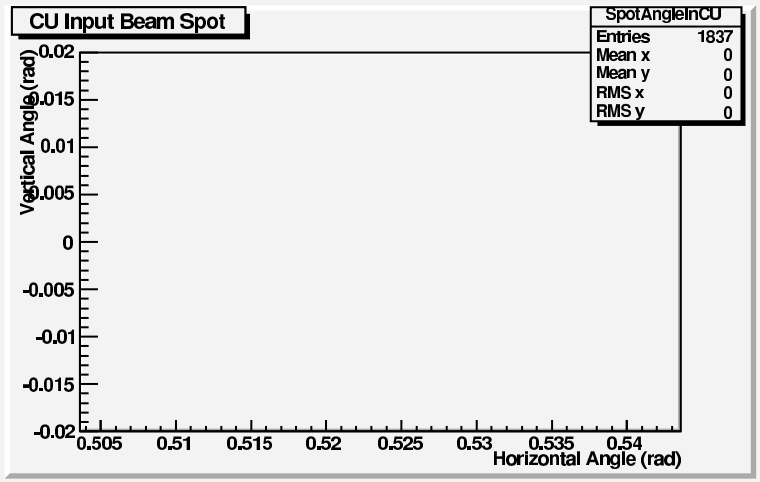

CU Input Horizontal coordinate
HorCoordInCU
Entries 1837
Mean 396
RMS 63.72
Position (mm)

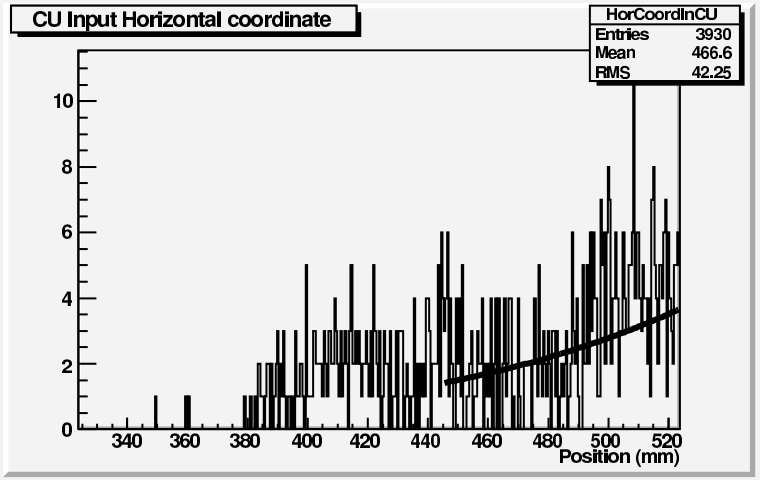

CU Input vertical coordinate
VertCoordInCU
Entries 1837
Mean 34.25
RMS 6.456
Position (mm)

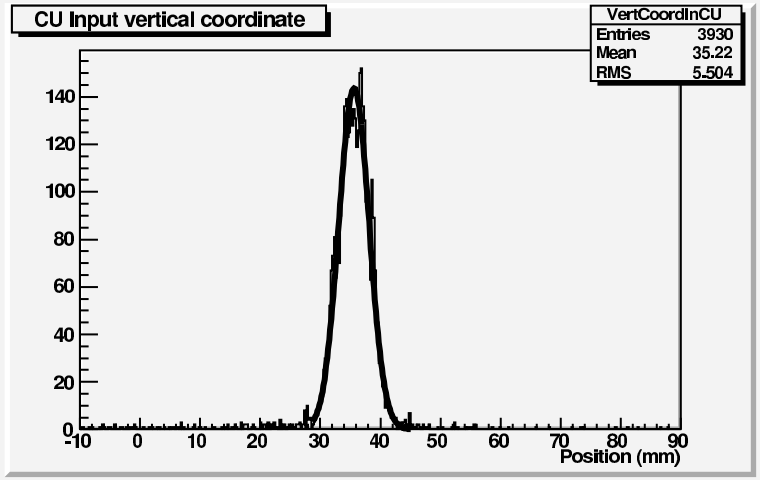

CU Input horizontal angle
HorAngleInCU
Entries 1837
Mean 0
RMS 0
Angle (rad)

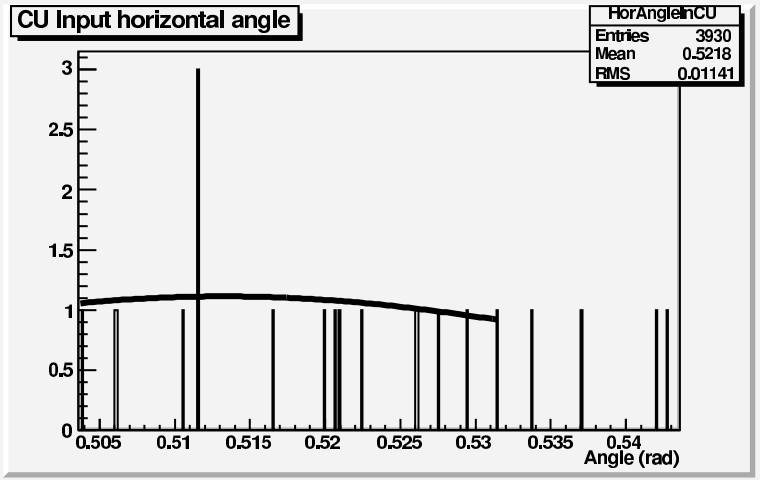

CU Input vertical angle
VertAngleInCU
Entries 1837
Mean 0.005076
RMS 0.00166
Angle (rad)

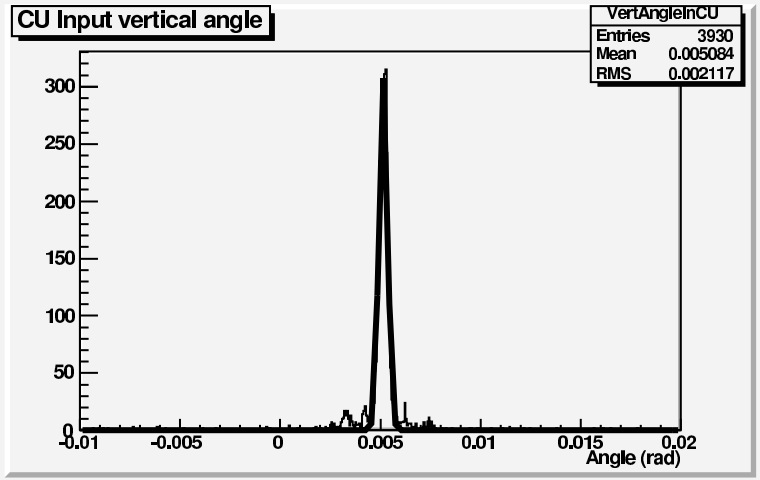

CU Input Beam Spot
SpotCoordInCU
Entries 1837
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Position (mm)
Horizontal Position (mm)

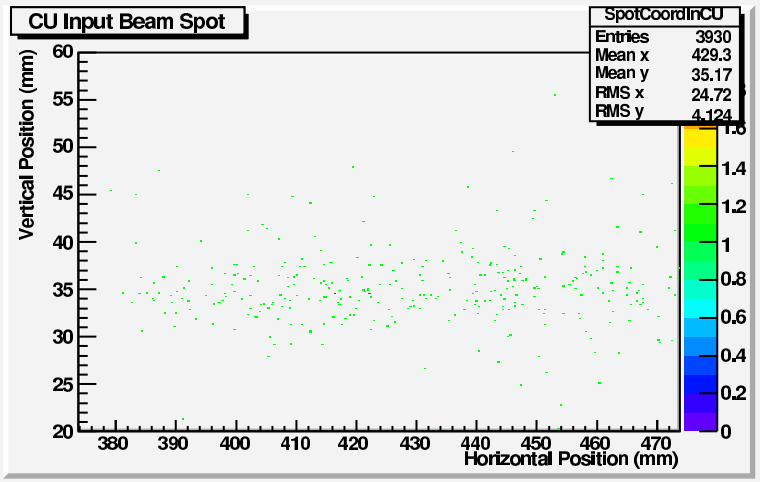

CU Input Beam Spot
SpotAngleInCU
Entries 1837
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

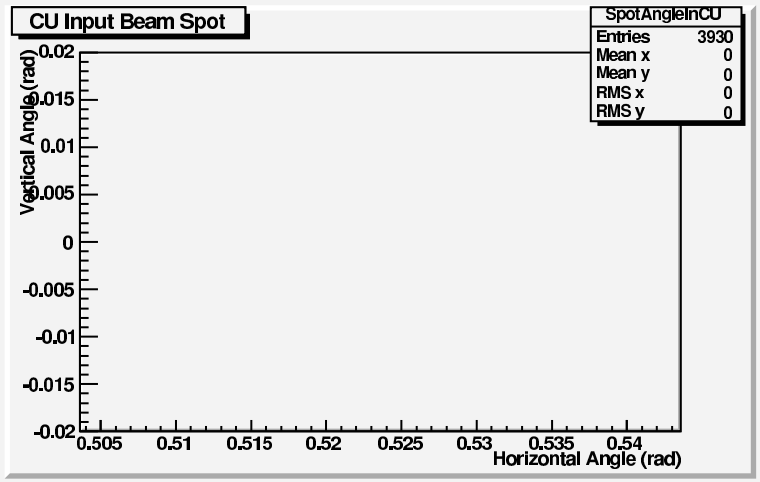

CU Input Horizontal coordinate
HorCoordInCU
Entries 3930
Mean 466.6
RMS 42.25
Position (mm)

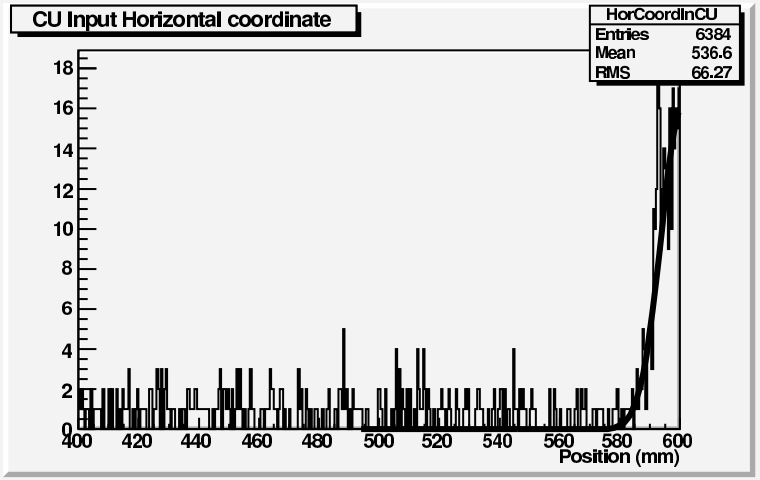

CU Input vertical coordinate
VertCoordInCU
Entries 3930
Mean 35.22
RMS 5.504
Position (mm)

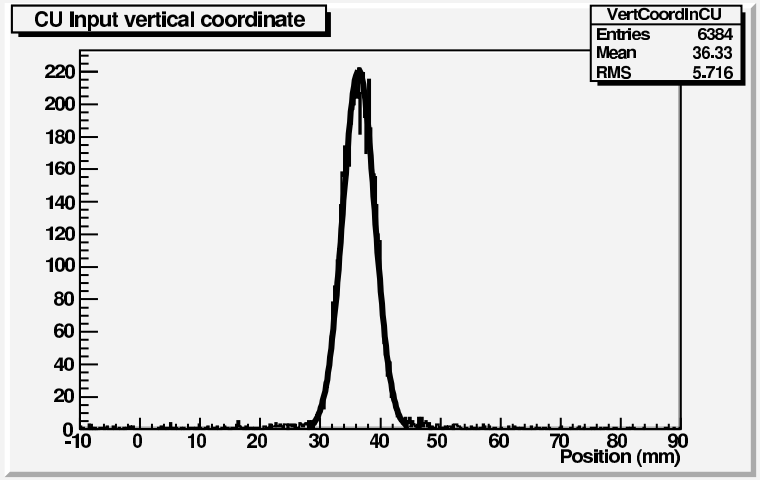

CU Input horizontal angle
HorAngleInCU
Entries 3930
Mean 0.5218
RMS 0.01141
Angle (rad)

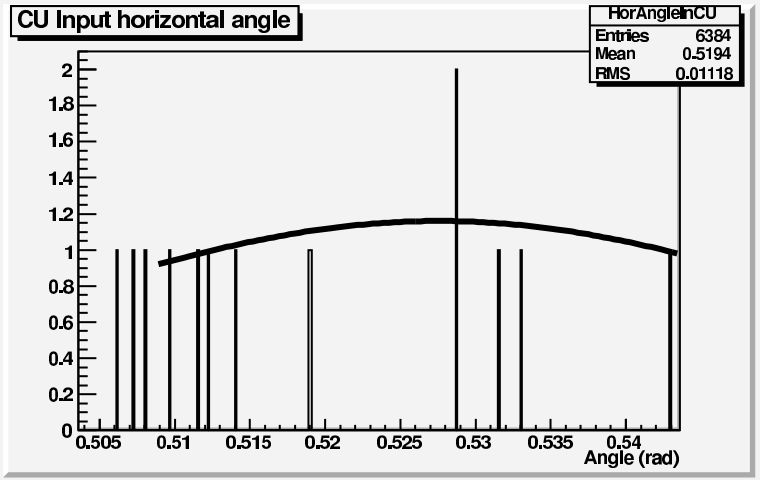

CU Input vertical angle
VertAngleInCU
Entries 3930
Mean 0.005084
RMS 0.002117
Angle (rad)

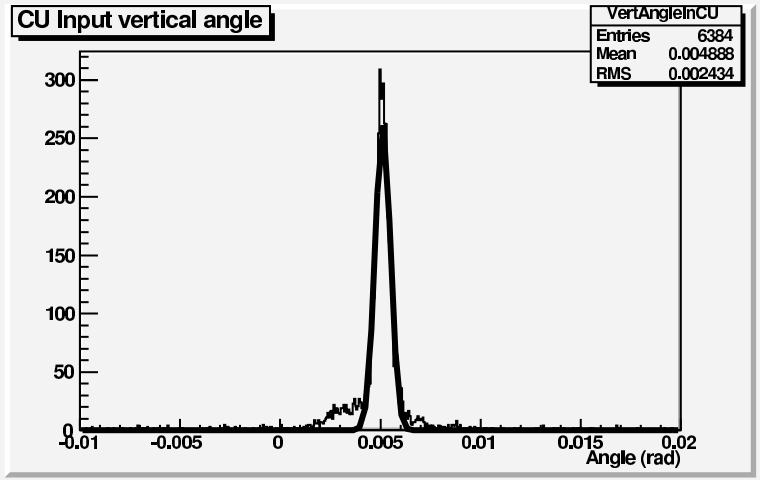

CU Input Beam Spot
SpotCoordInCU
Entries 3930
Mean x 429.3
Mean y 35.17
RMS x 24.72
RMS y 4.124
Vertical Position (mm)
Horizontal Position (mm)

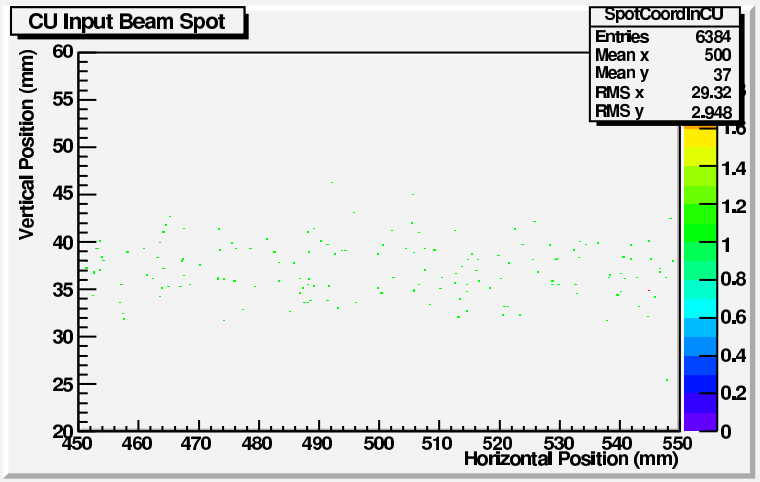

CU Input Beam Spot
SpotAngleInCU
Entries 3930
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

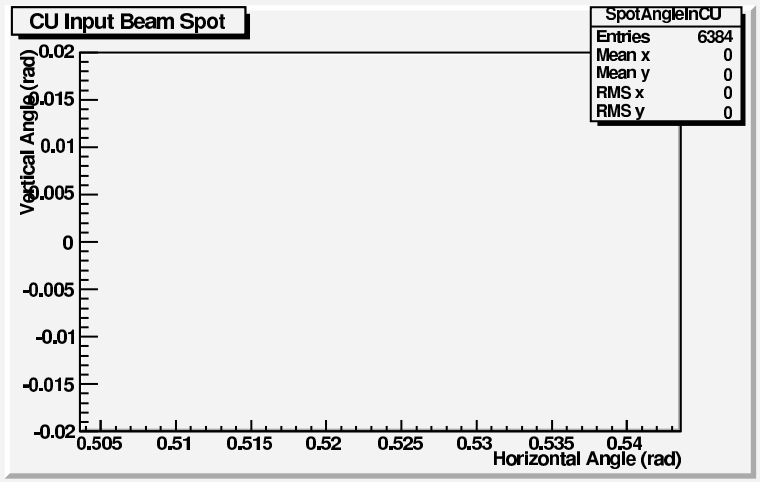

CU Input Horizontal coordinate
HorCoordInCU
Entries 6384
Mean 536.6
RMS 66.27
Position (mm)

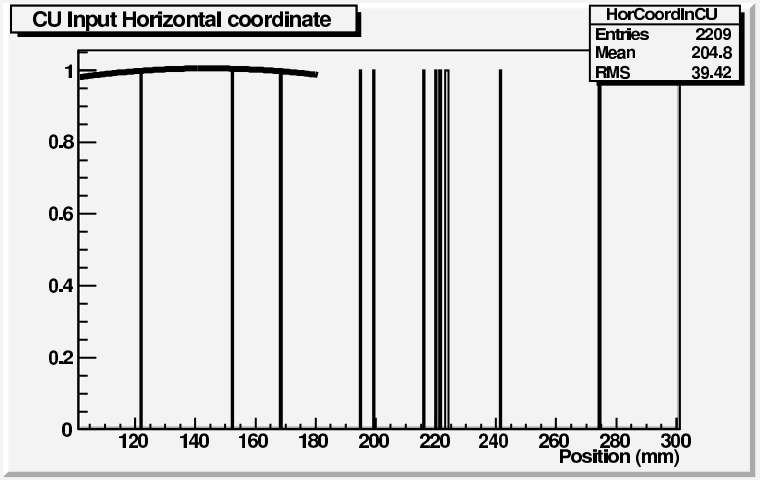

CU Input vertical coordinate
VertCoordInCU
Entries 6384
Mean 36.33
RMS 5.716
Position (mm)

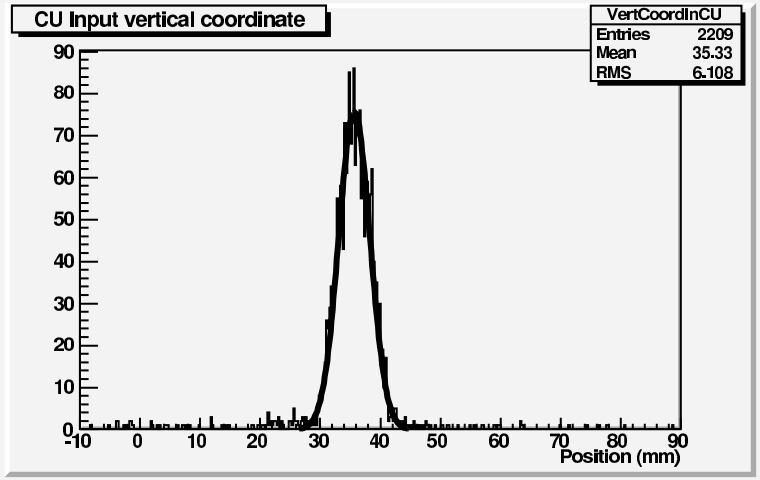

CU Input horizontal angle
HorAngleInCU
Entries 6384
Mean 0.5194
RMS 0.01118
Angle (rad)

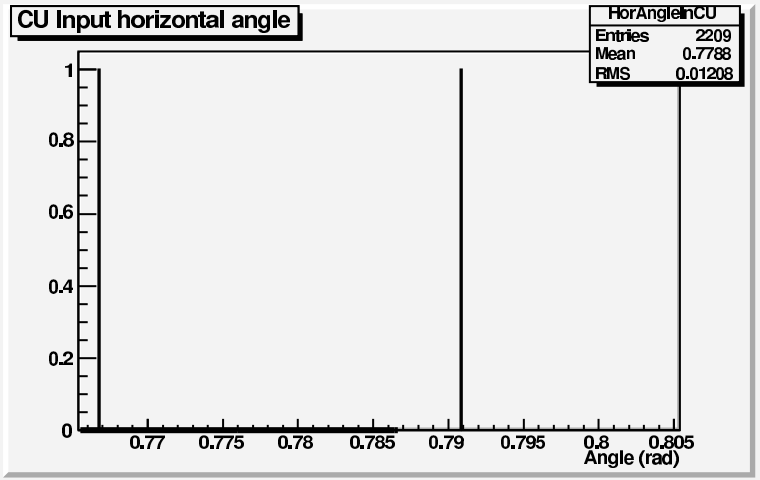

CU Input vertical angle
VertAngleInCU
Entries 6384
Mean 0.004888
RMS 0.002434
Angle (rad)

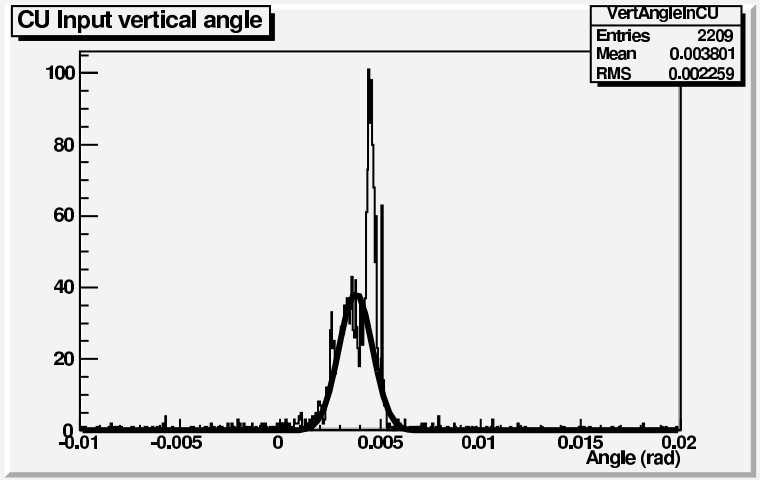

CU Input Beam Spot
SpotCoordInCU
Entries 6384
Mean x 500
Mean y 37
RMS x 29.32
RMS y 2.948
Vertical Position (mm)
Horizontal Position (mm)

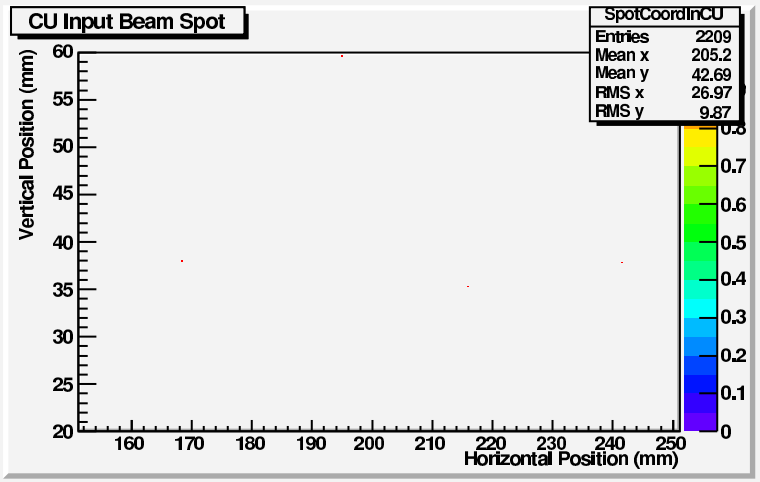

CU Input Beam Spot
SpotAngleInCU
Entries 6384
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

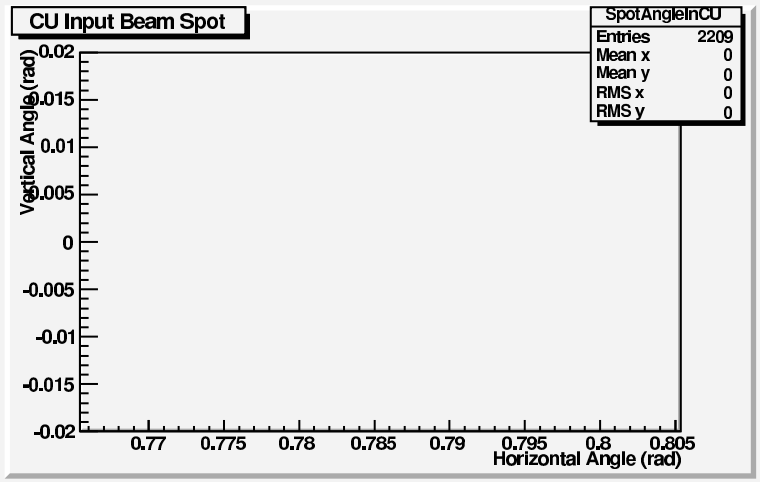

CU Input Horizontal coordinate
HorCoordInCU
Entries 2209
Mean 204.8
RMS 39.42
Position (mm)

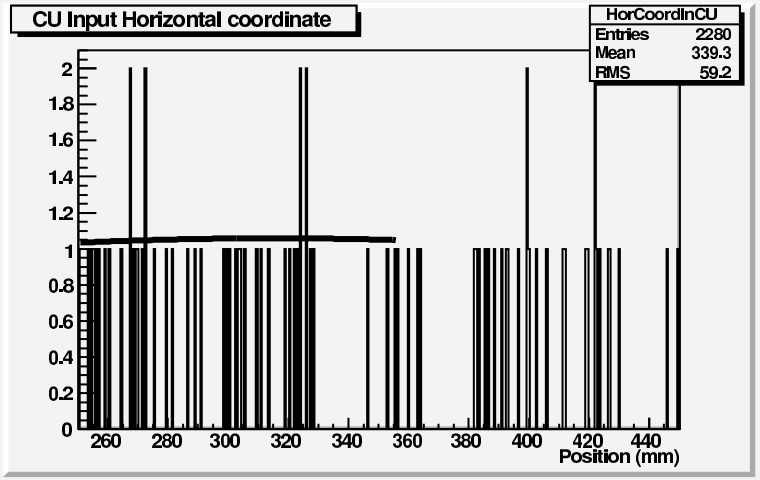

CU Input vertical coordinate
VertCoordInCU
Entries 2209
Mean 35.33
RMS 6.108
Position (mm)

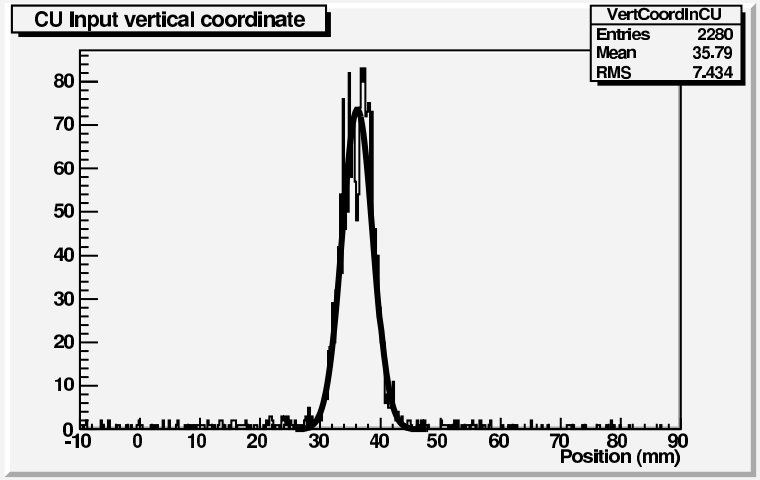

CU Input horizontal angle
HorAngleInCU
Entries 2209
Mean 0.7788
RMS 0.01208
Angle (rad)

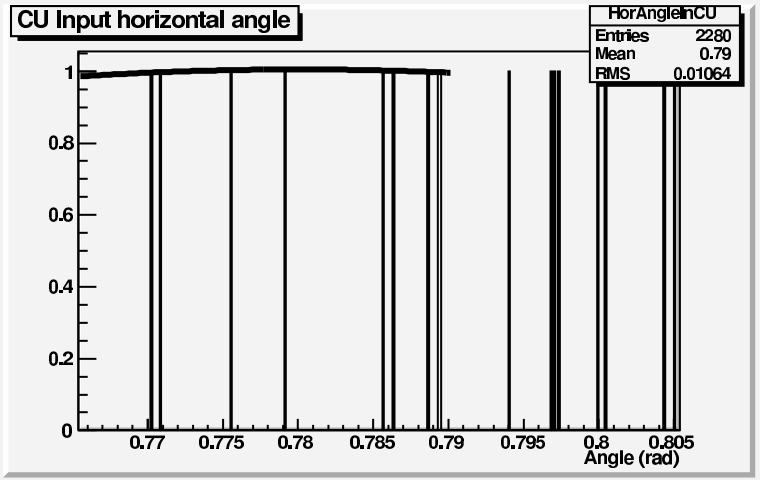

CU Input vertical angle
VertAngleInCU
Entries 2209
Mean 0.003801
RMS 0.002259
Angle (rad)

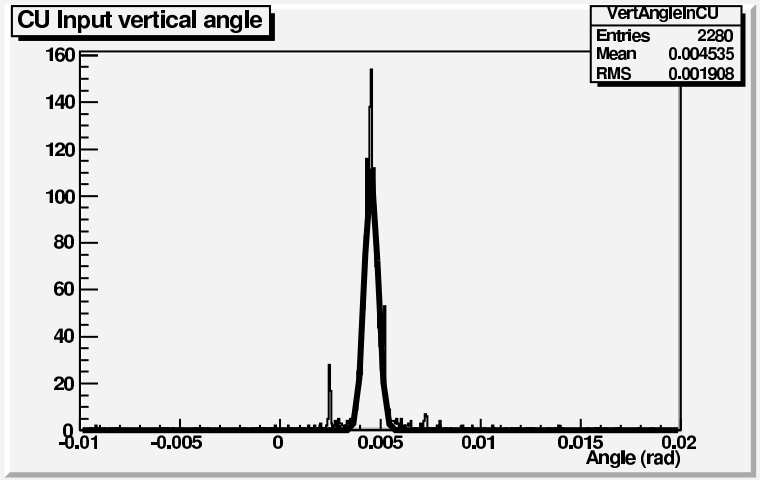

CU Input Beam Spot
SpotCoordInCU
Entries 2209
Mean x 205.2
Mean y 42.69
RMS x 26.97
RMS y 9.87
Vertical Position (mm)
Horizontal Position (mm)

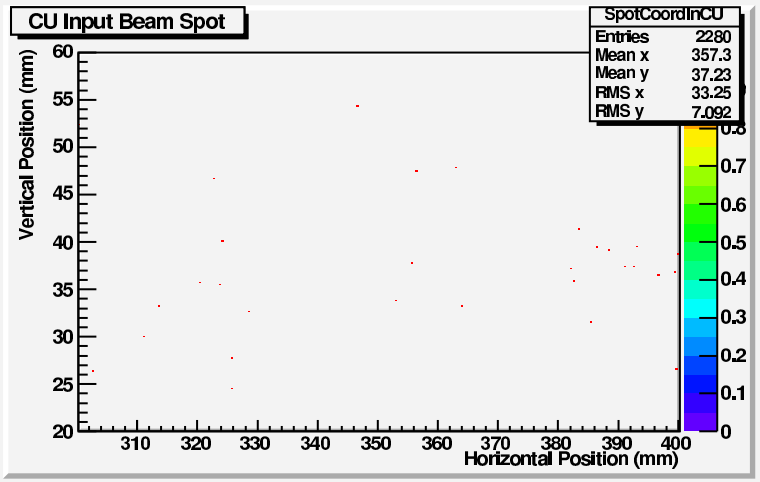

CU Input Beam Spot
SpotAngleInCU
Entries 2209
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

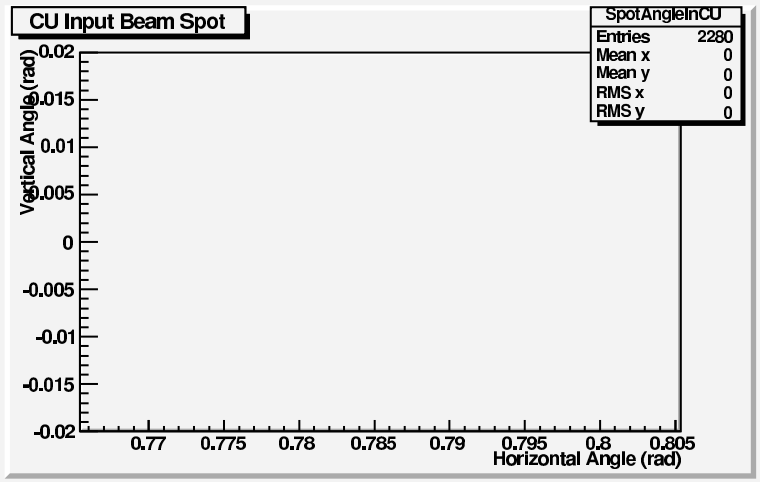

CU Input Horizontal coordinate
HorCoordInCU
Entries 2280
Mean 339.3
RMS 59.2
Position (mm)

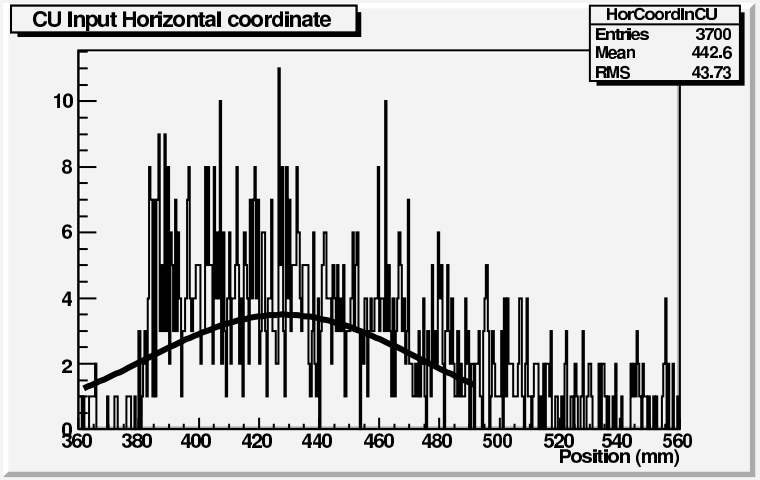

CU Input vertical coordinate
VertCoordInCU
Entries 2280
Mean 35.79
RMS 7.434
Position (mm)

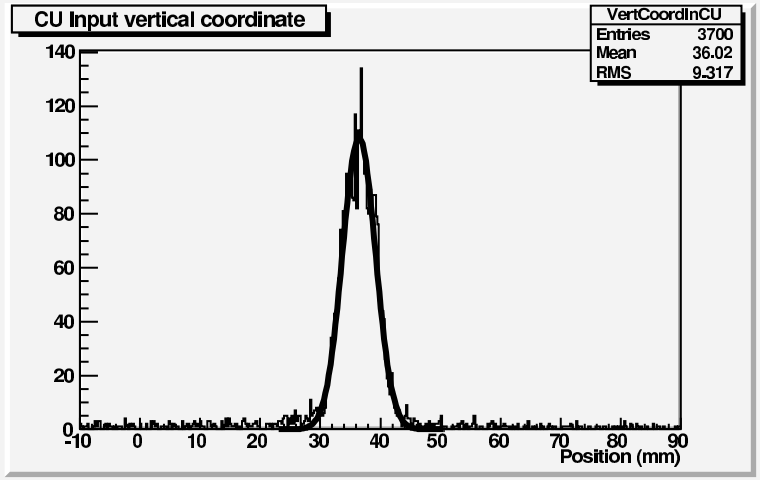

CU Input horizontal angle
HorAngleInCU
Entries 2280
Mean 0.79
RMS 0.01064
Angle (rad)

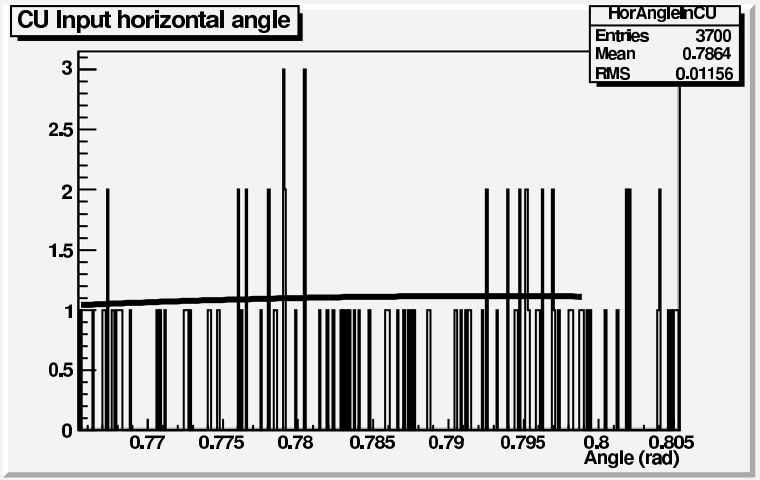

CU Input vertical angle
VertAngleInCU
Entries 2280
Mean 0.004535
RMS 0.001908
Angle (rad)

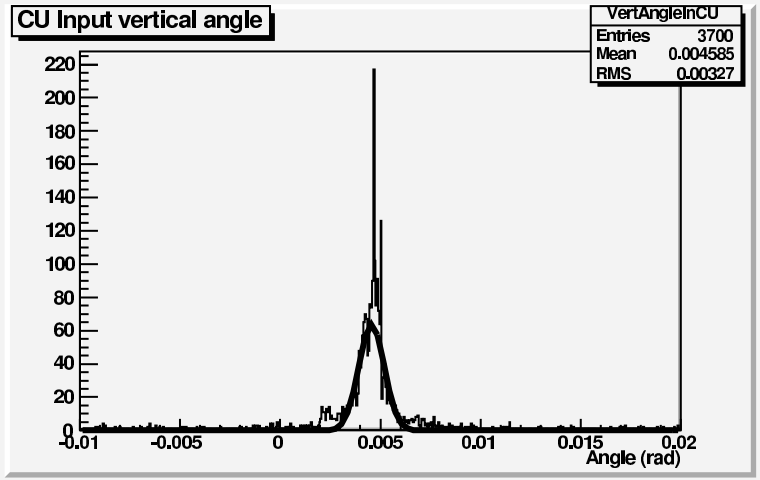

CU Input Beam Spot
SpotCoordInCU
Entries 2280
Mean x 357.3
Mean y 37.23
RMS x 33.25
RMS y 7.092
Vertical Position (mm)
Horizontal Position (mm)

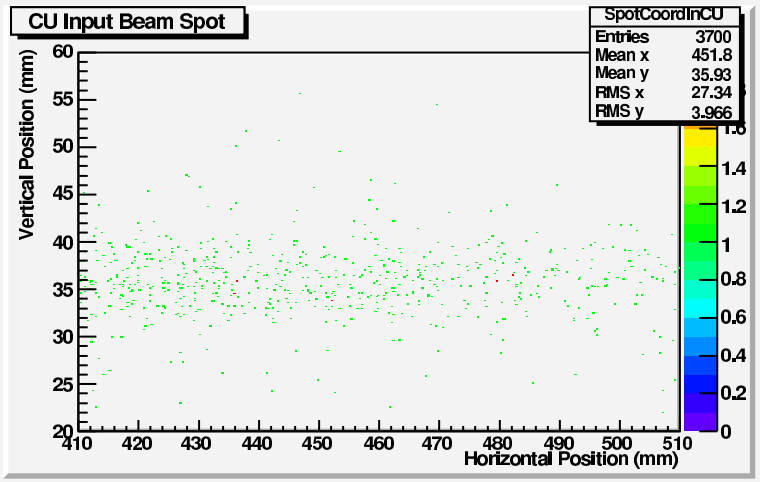

CU Input Beam Spot
SpotAngleInCU
Entries 2280
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

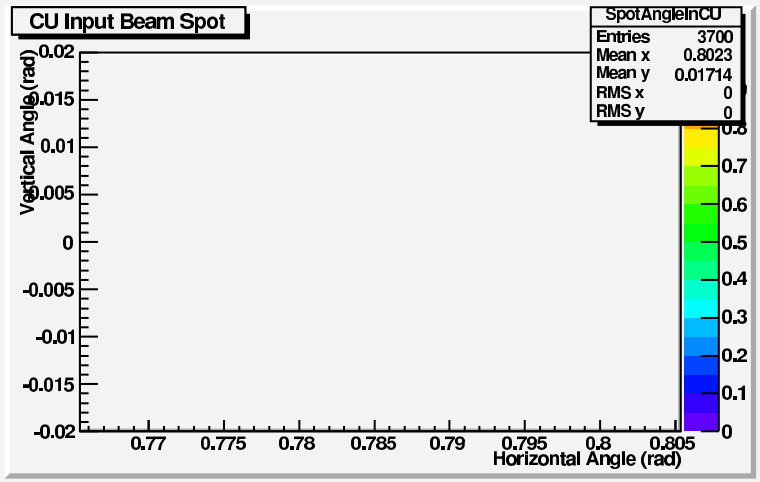

CU Input Horizontal coordinate
HorCoordInCU
Entries 3700
Mean 442.6
RMS 43.73
Position (mm)

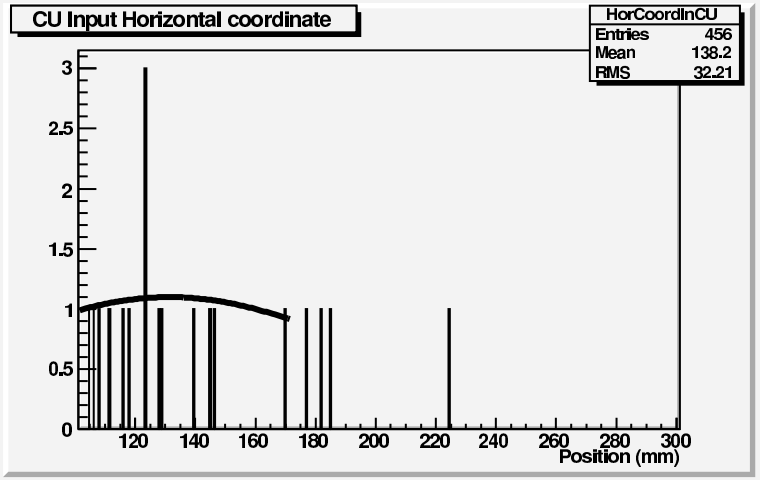

CU Input vertical coordinate
VertCoordInCU
Entries 3700
Mean 36.02
RMS 9.317
Position (mm)

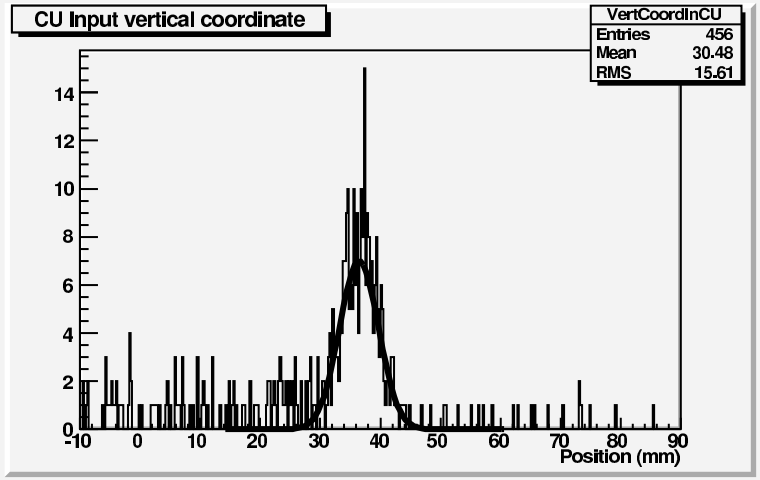

CU Input horizontal angle
HorAngleInCU
Entries 3700
Mean 0.7864
RMS 0.01156
Angle (rad)

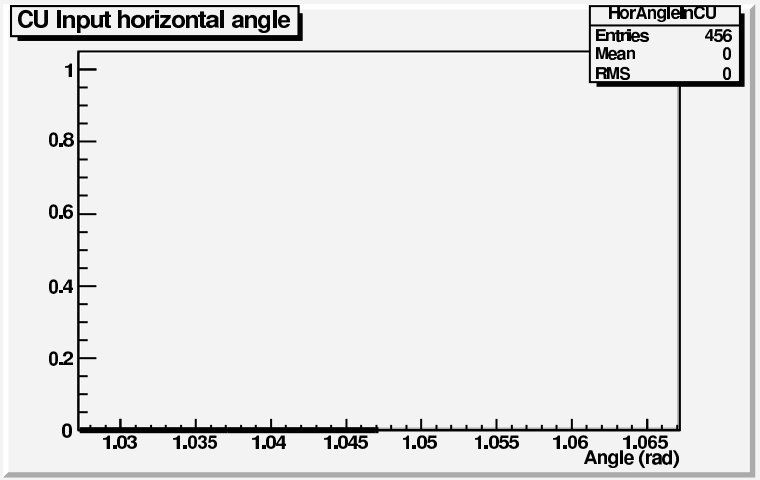

CU Input vertical angle
VertAngleInCU
Entries 3700
Mean 0.004585
RMS 0.00327
Angle (rad)

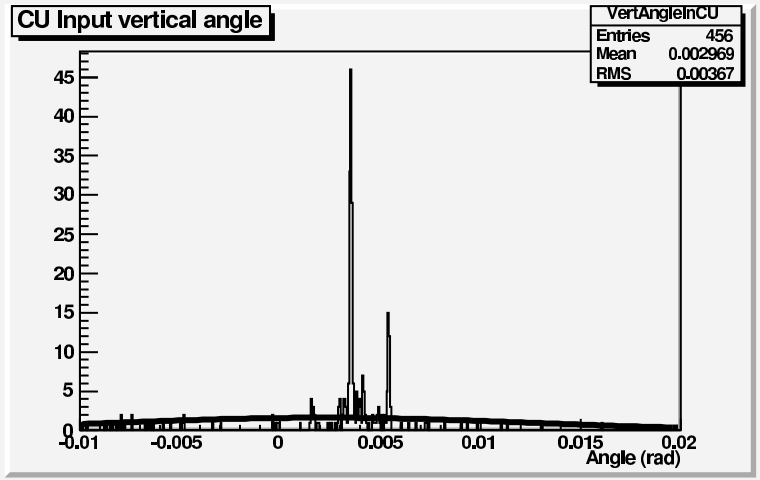

CU Input Beam Spot
SpotCoordInCU
Entries 3700
Mean x 451.8
Mean y 35.93
RMS x 27.34
RMS y 3.966
Vertical Position (mm)
Horizontal Position (mm)

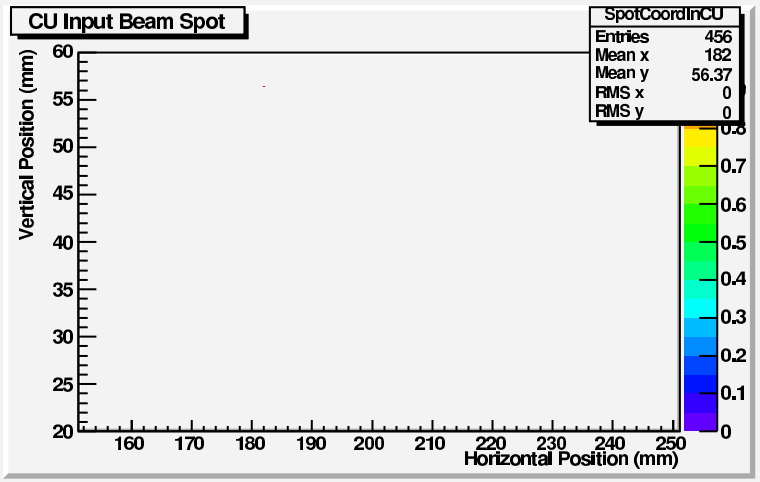

CU Input Beam Spot
SpotAngleInCU
Entries 3700
Mean x 0.8023
Mean y 0.01714
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

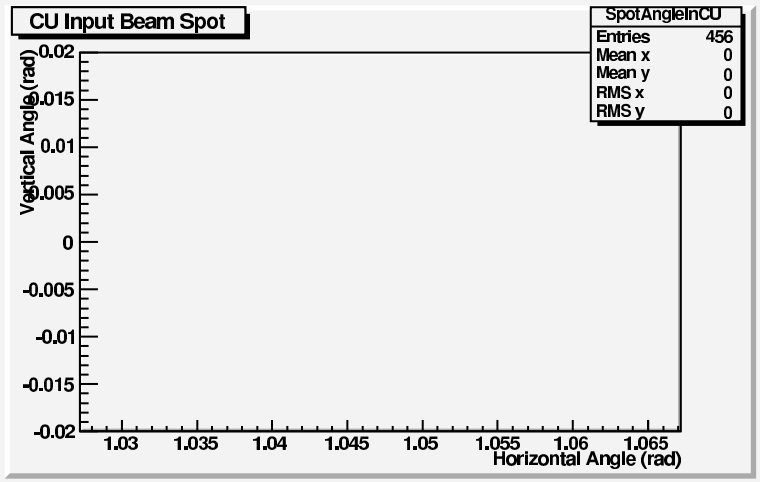

CU Input Horizontal coordinate
HorCoordInCU
Entries 456
Mean 138.2
RMS 32.21
Position (mm)

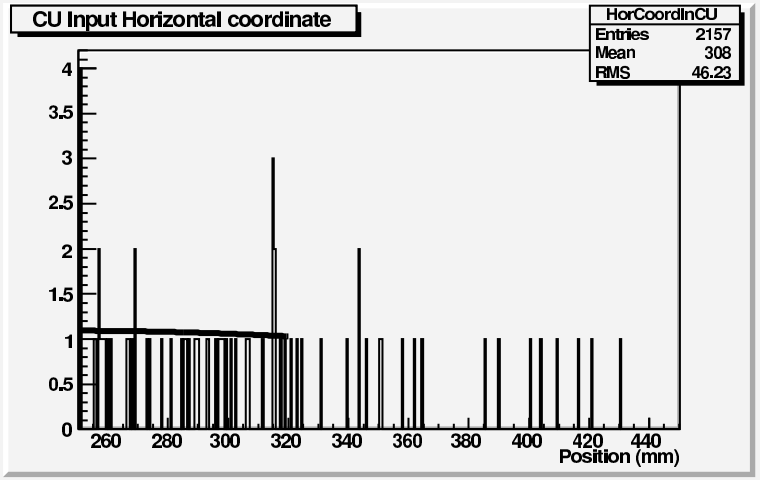

CU Input vertical coordinate
VertCoordInCU
Entries 456
Mean 30.48
RMS 15.61
Position (mm)

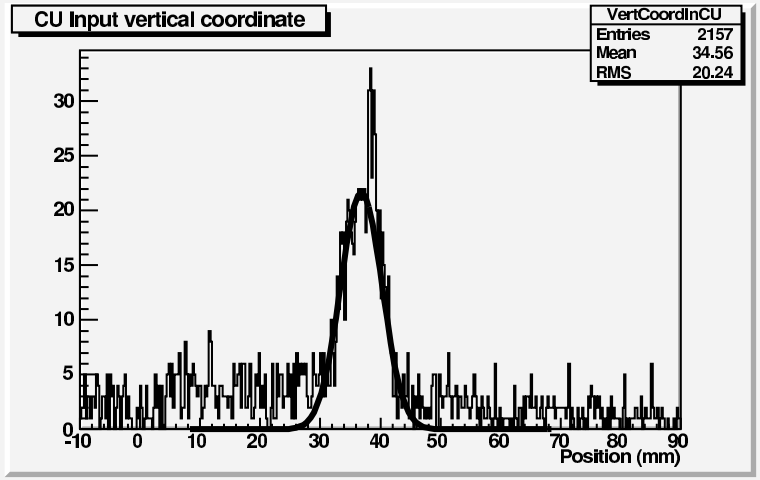

CU Input horizontal angle
HorAngleInCU
Entries 456
Mean 0
RMS 0
Angle (rad)

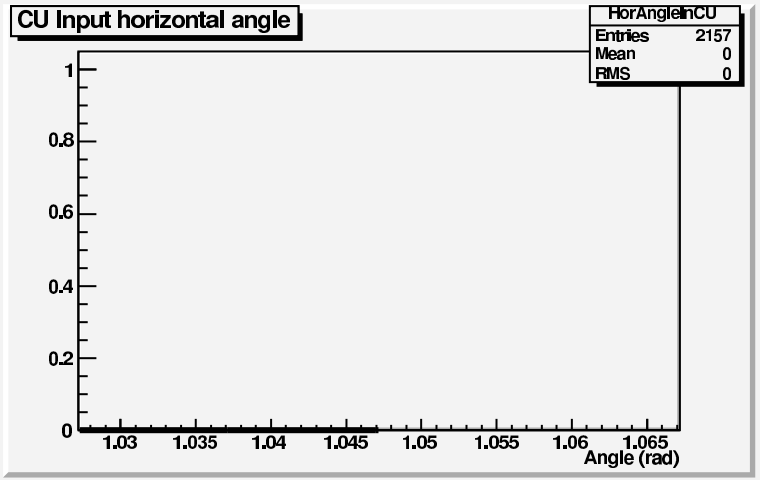

CU Input vertical angle
VertAngleInCU
Entries 456
Mean 0.002969
RMS 0.00367
Angle (rad)

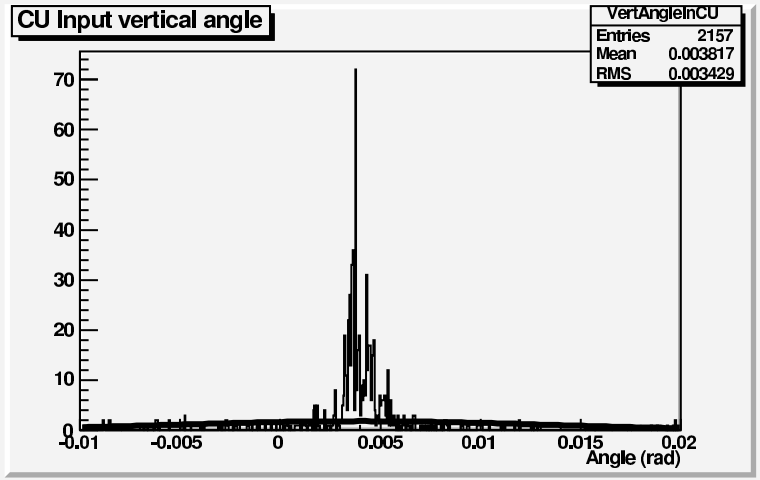

CU Input Beam Spot
SpotCoordInCU
Entries 456
Mean x 182
Mean y 56.37
RMS x 0
RMS y 0
Vertical Position (mm)
Horizontal Position (mm)

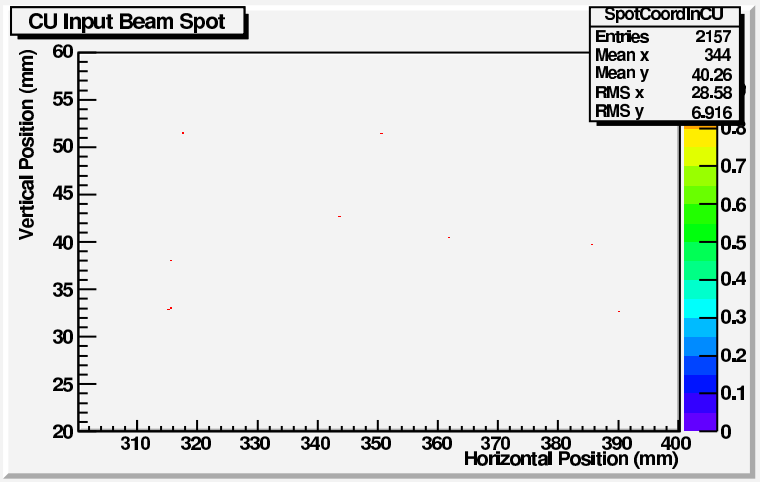

CU Input Beam Spot
SpotAngleInCU
Entries 456
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

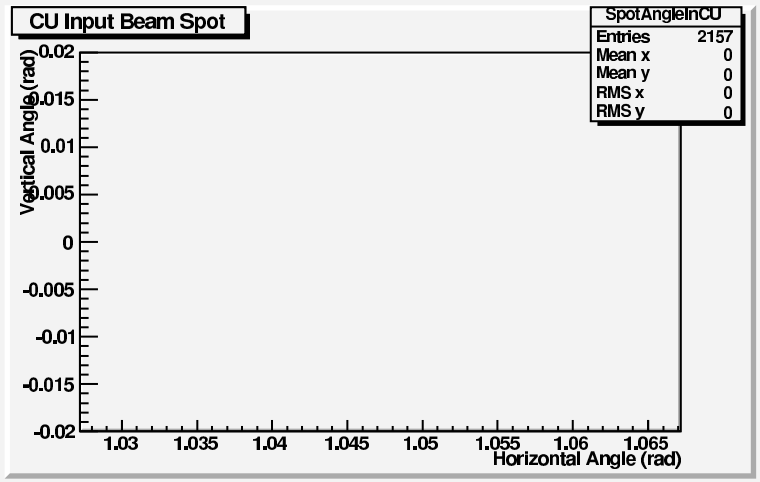

CU Input Horizontal coordinate
HorCoordInCU
Entries 2157
Mean 308
RMS 46.23
Position (mm)

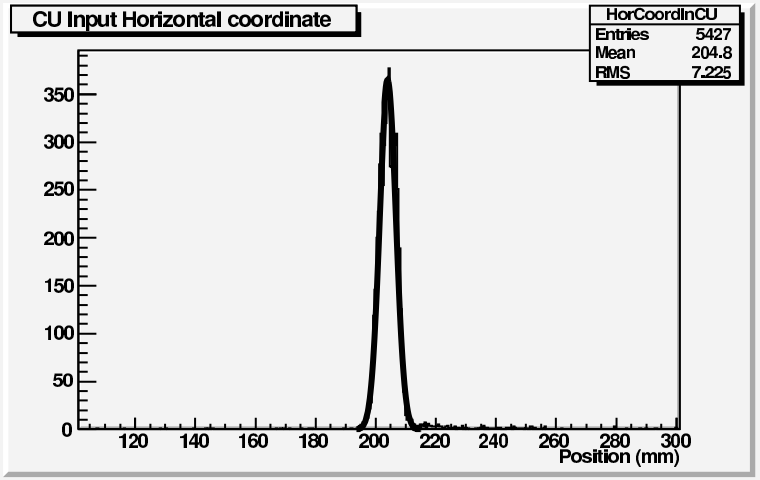

CU Input vertical coordinate
VertCoordInCU
Entries 2157
Mean 34.56
RMS 20.24
Position (mm)

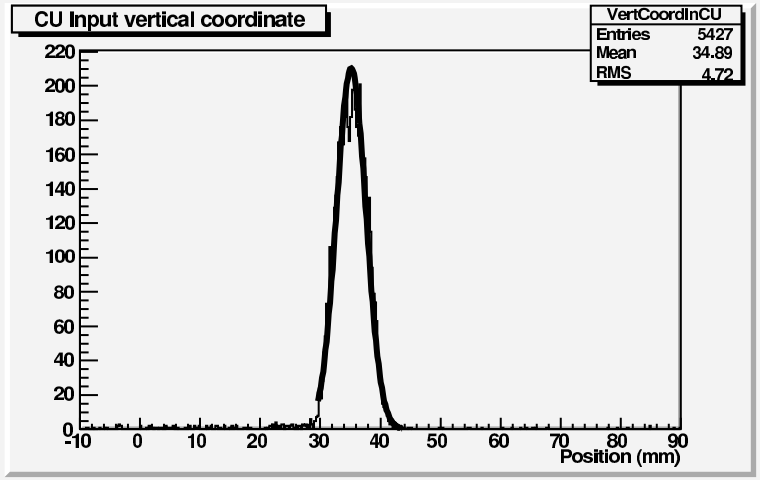

CU Input horizontal angle
HorAngleInCU
Entries 2157
Mean 0
RMS 0
Angle (rad)

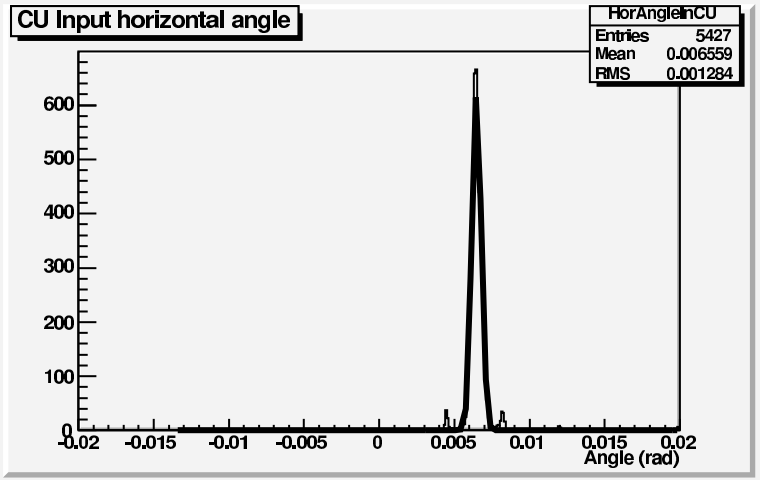

CU Input vertical angle
VertAngleInCU
Entries 2157
Mean 0.003817
RMS 0.003429
Angle (rad)

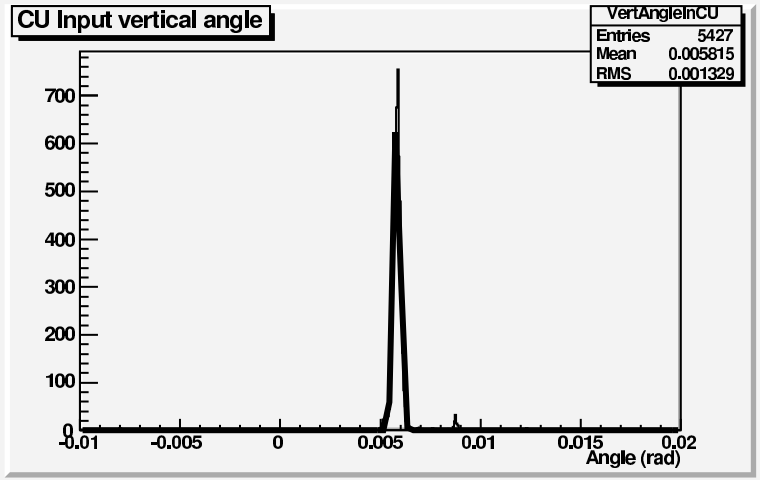

CU Input Beam Spot
SpotCoordInCU
Entries 2157
Mean x 344
Mean y 40.26
RMS x 28.58
RMS y 6.916
Vertical Position (mm)
Horizontal Position (mm)

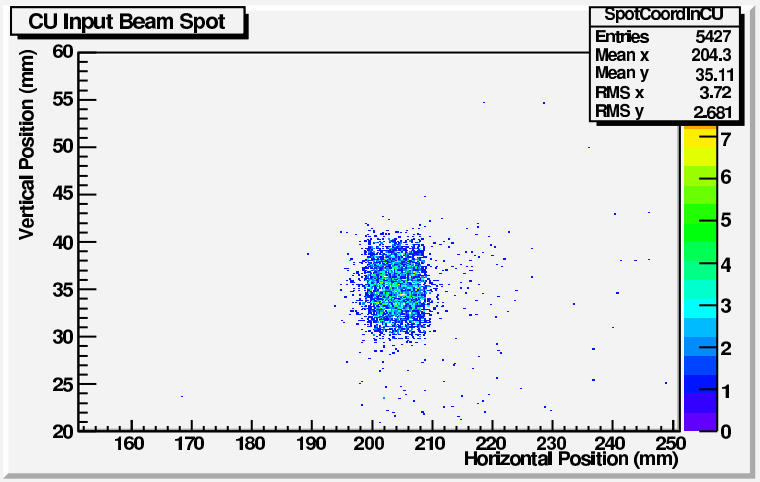

CU Input Beam Spot
SpotAngleInCU
Entries 2157
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

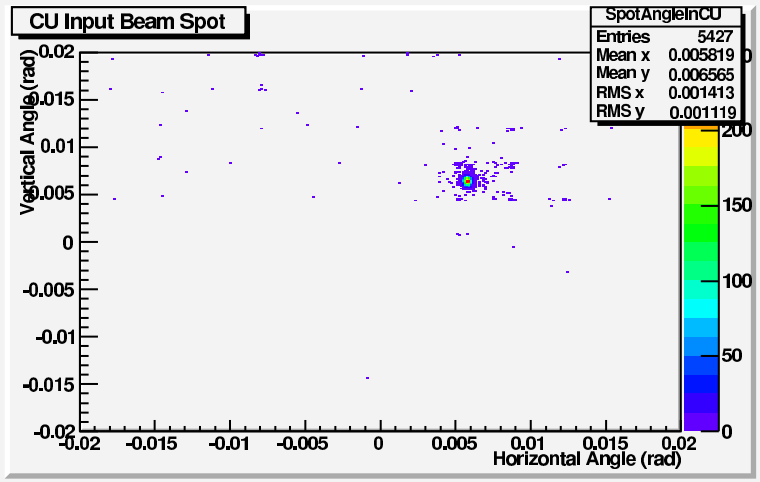

CU Input Horizontal coordinate
HorCoordInCU
Entries 5427
Mean 204.8
RMS 7.225
Position (mm)

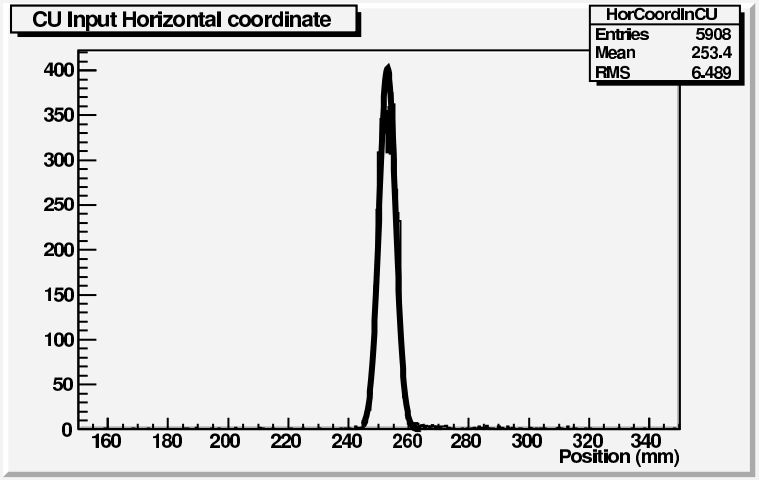

CU Input vertical coordinate
VertCoordInCU
Entries 5427
Mean 34.89
RMS 4.72
Position (mm)

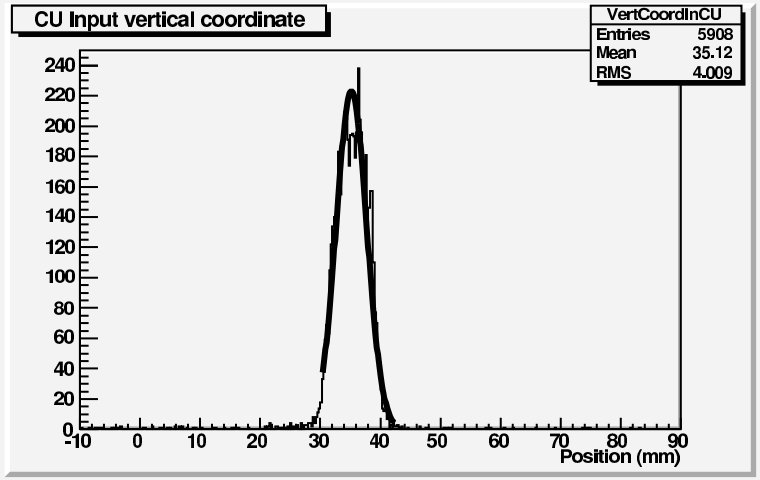

CU Input horizontal angle
HorAngleInCU
Entries 5427
Mean 0.006559
RMS 0.001284
Angle (rad)

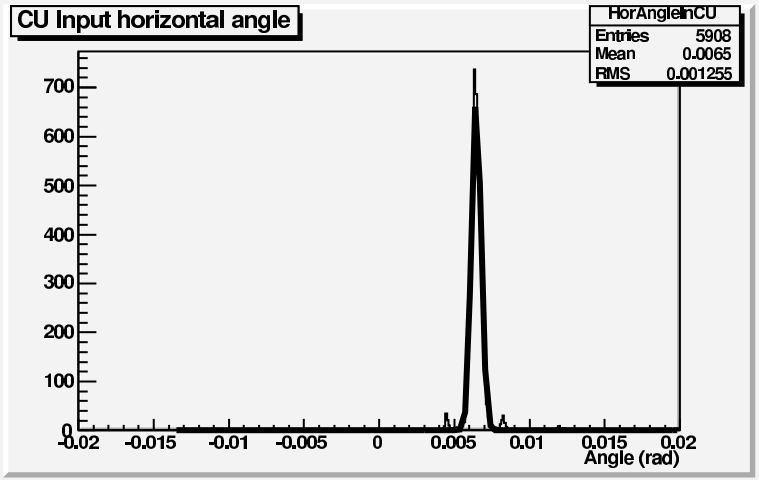

CU Input vertical angle
VertAngleInCU
Entries 5427
Mean 0.005815
RMS 0.001329
Angle (rad)

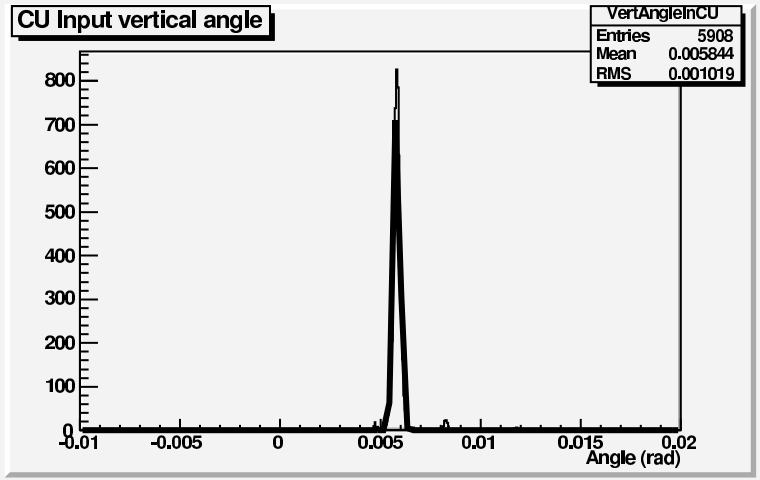

CU Input Beam Spot
SpotCoordInCU
Entries 5427
Mean x 204.3
Mean y 35.11
RMS x 3.72
RMS y 2.681
Vertical Position (mm)
Horizontal Position (mm)

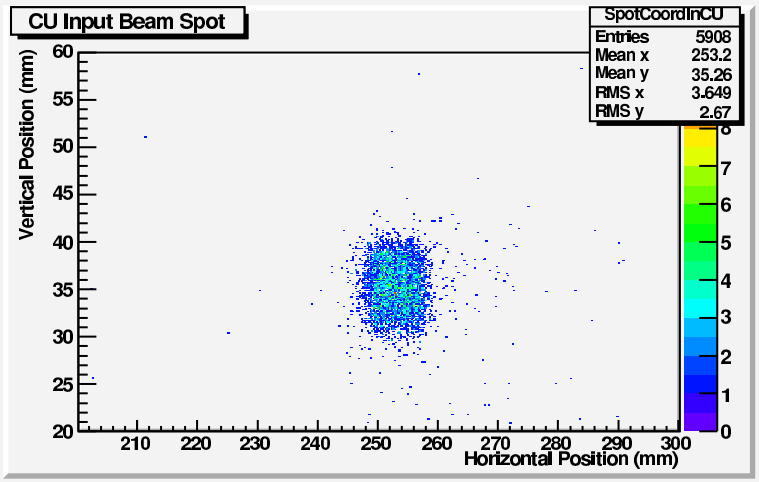

CU Input Beam Spot
SpotAngleInCU
Entries 5427
Mean x 0.005819
Mean y 0.006565
RMS x 0.001413
RMS y 0.001119
Vertical Angle (rad)
Horizontal Angle (rad)

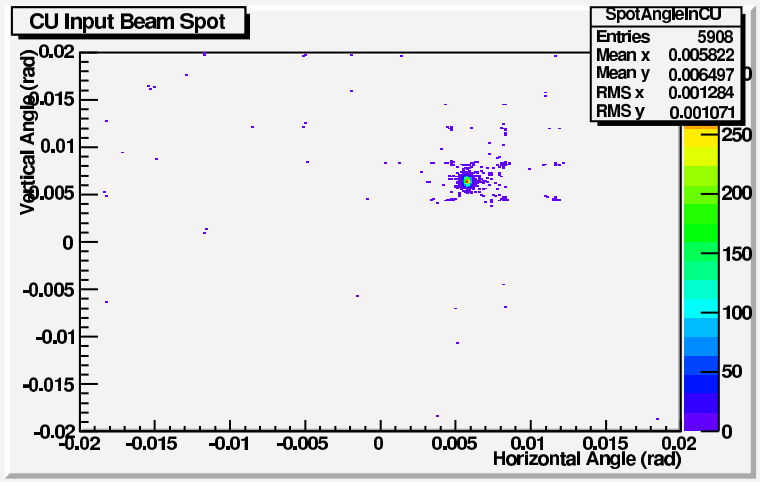

CU Input Horizontal coordinate
HorCoordInCU
Entries 5908
Mean 253.4
RMS 6.489
Position (mm)

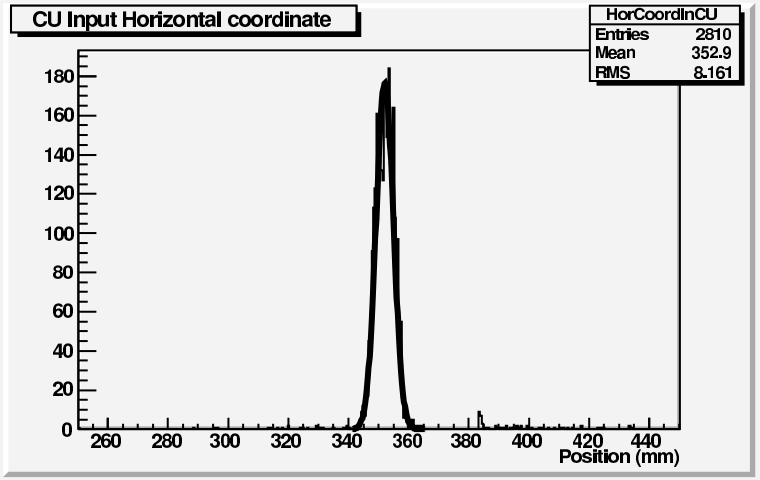

CU Input vertical coordinate
VertCoordInCU
Entries 5908
Mean 35.12
RMS 4.009
Position (mm)

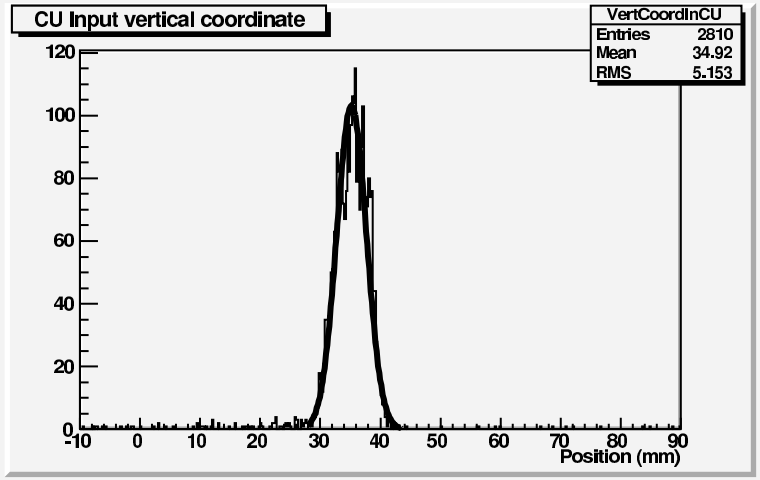

CU Input horizontal angle
HorAngleInCU
Entries 5908
Mean 0.0065
RMS 0.001255
Angle (rad)

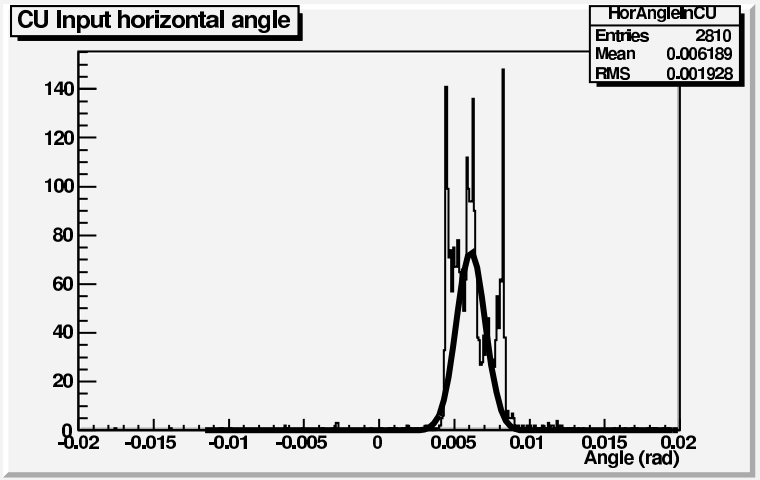

CU Input vertical angle
VertAngleInCU
Entries 5908
Mean 0.005844
RMS 0.001019
Angle (rad)

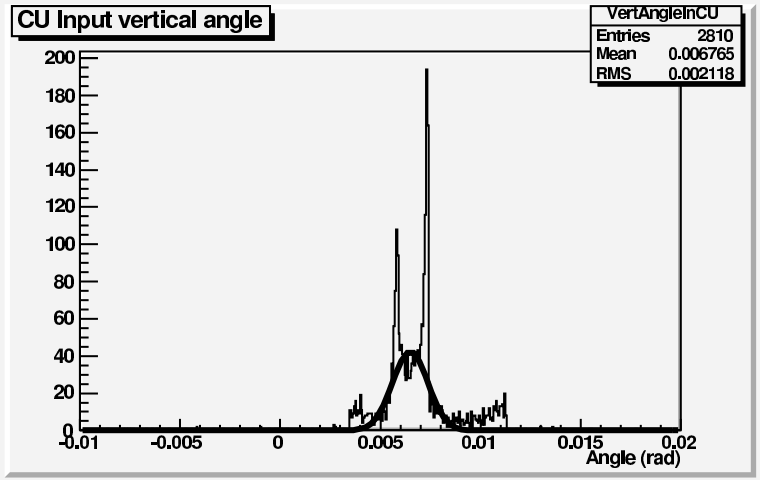

CU Input Beam Spot
SpotCoordInCU
Entries 5908
Mean x 253.2
Mean y 35.26
RMS x 3.649
RMS y 2.67
Vertical Position (mm)
Horizontal Position (mm)

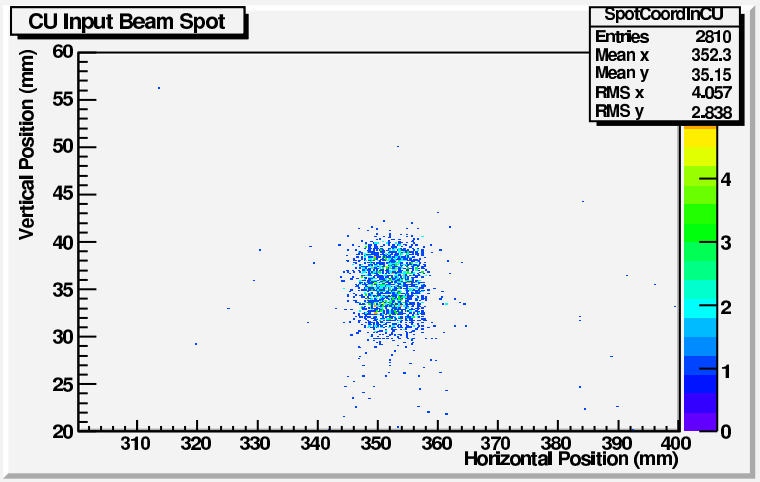

CU Input Beam Spot
SpotAngleInCU
Entries 5908
Mean x 0.005822
Mean y 0.006497
RMS x 0.001284
RMS y 0.001071
Vertical Angle (rad)
Horizontal Angle (rad)

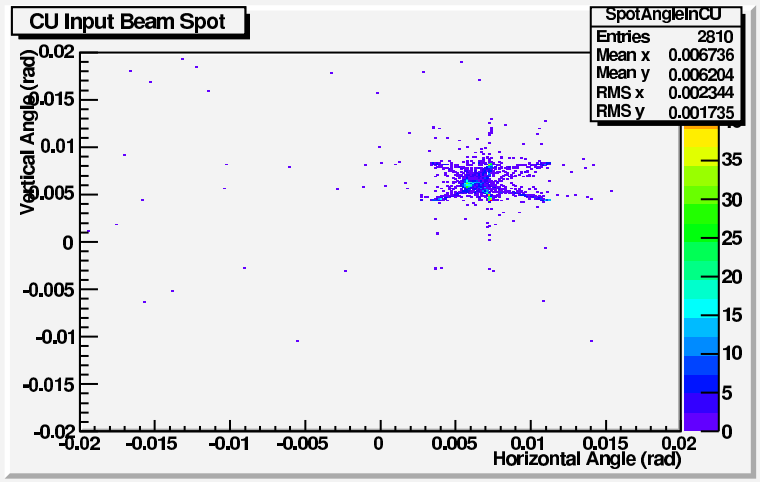

CU Input Horizontal coordinate
HorCoordInCU
Entries 2810
Mean 352.9
RMS 8.161
Position (mm)

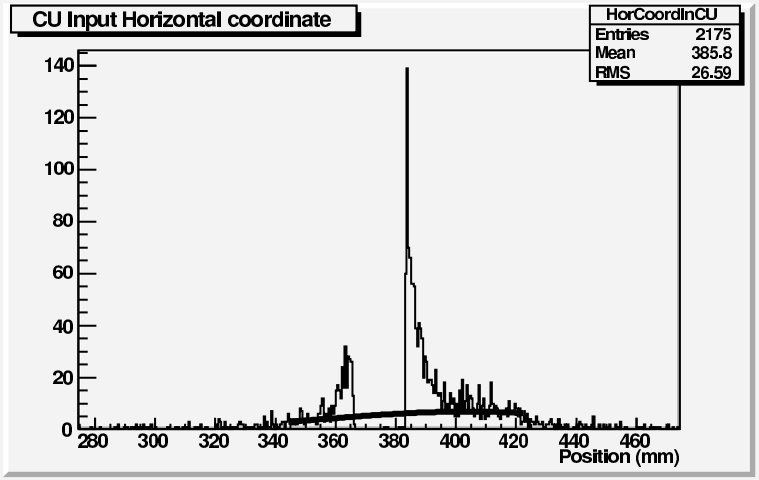

CU Input vertical coordinate
VertCoordInCU
Entries 2810
Mean 34.92
RMS 5.153
Position (mm)

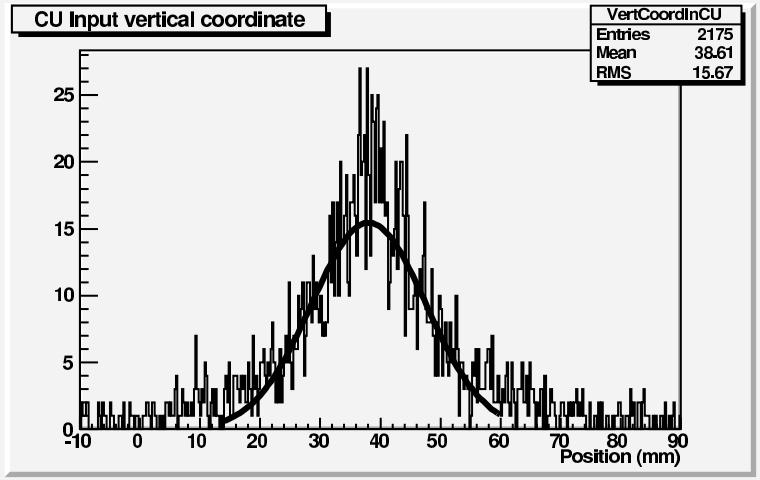

CU Input horizontal angle
HorAngleInCU
Entries 2810
Mean 0.006189
RMS 0.001928
Angle (rad)

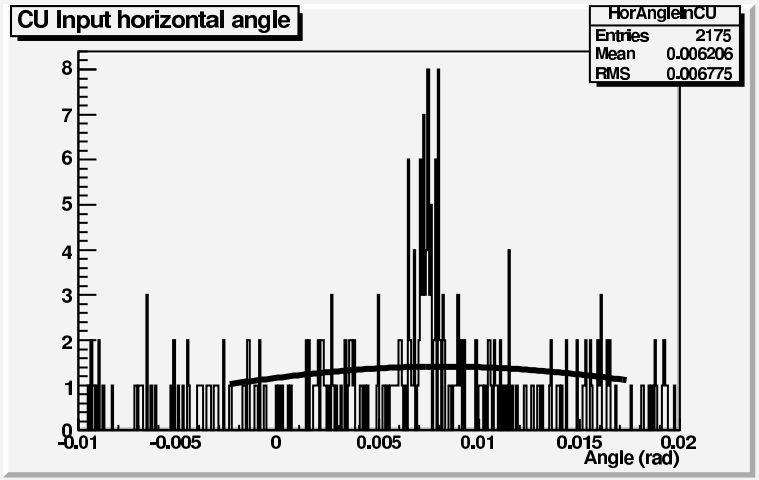

CU Input vertical angle
VertAngleInCU
Entries 2810
Mean 0.006765
RMS 0.002118
Angle (rad)

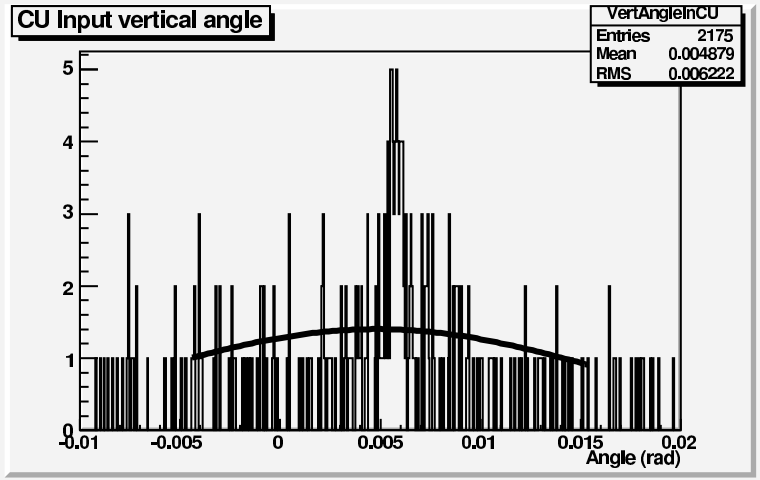

CU Input Beam Spot
SpotCoordInCU
Entries 2810
Mean x 352.3
Mean y 35.15
RMS x 4.057
RMS y 2.838
Vertical Position (mm)
Horizontal Position (mm)

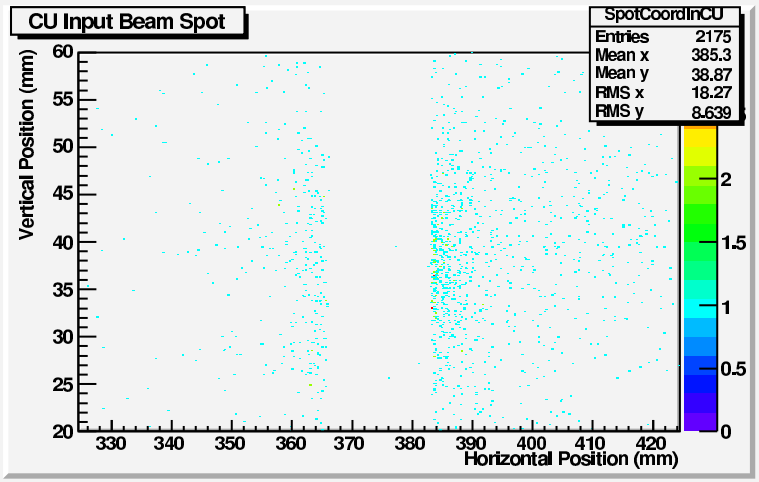

CU Input Beam Spot
SpotAngleInCU
Entries 2810
Mean x 0.006736
Mean y 0.006204
RMS x 0.002344
RMS y 0.001735
Vertical Angle (rad)
Horizontal Angle (rad)

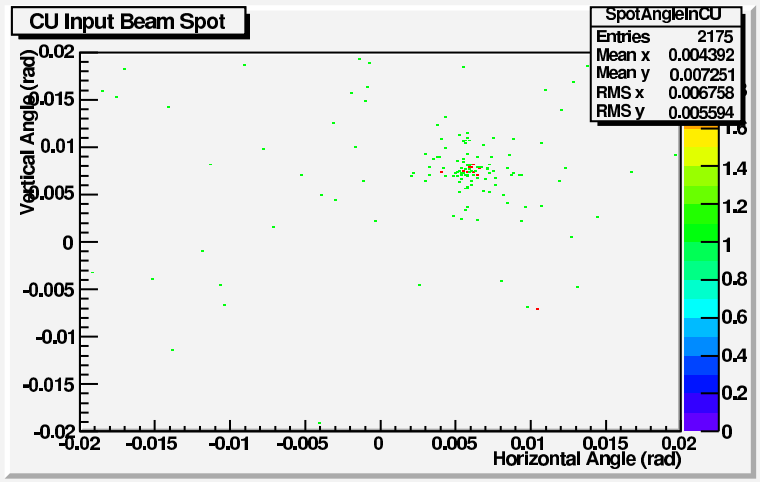

CU Input Horizontal coordinate
HorCoordInCU
Entries 2175
Mean 385.8
RMS 26.59
Position (mm)

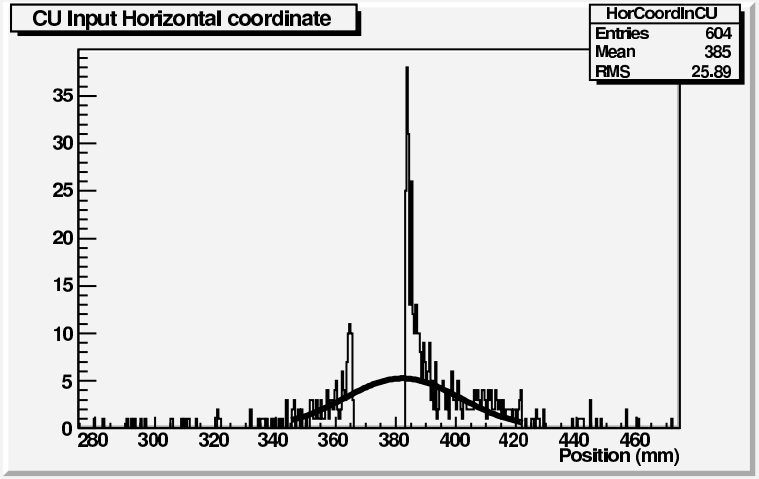

CU Input vertical coordinate
VertCoordInCU
Entries 2175
Mean 38.61
RMS 15.67
Position (mm)

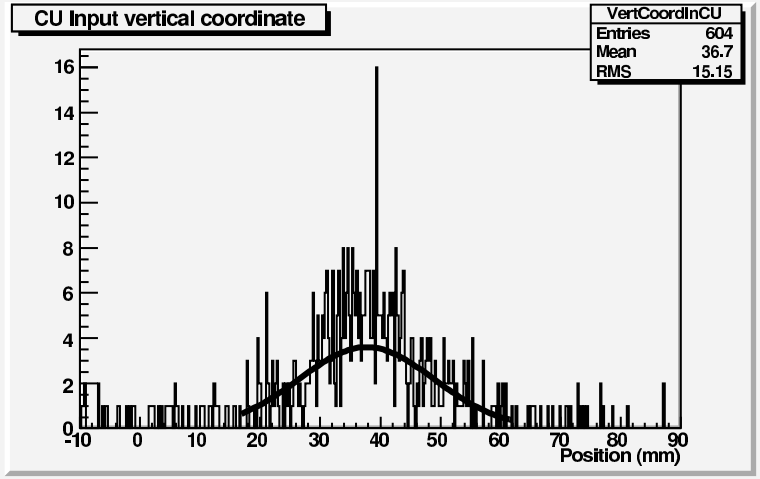

CU Input horizontal angle
HorAngleInCU
Entries 2175
Mean 0.006206
RMS 0.006775
Angle (rad)

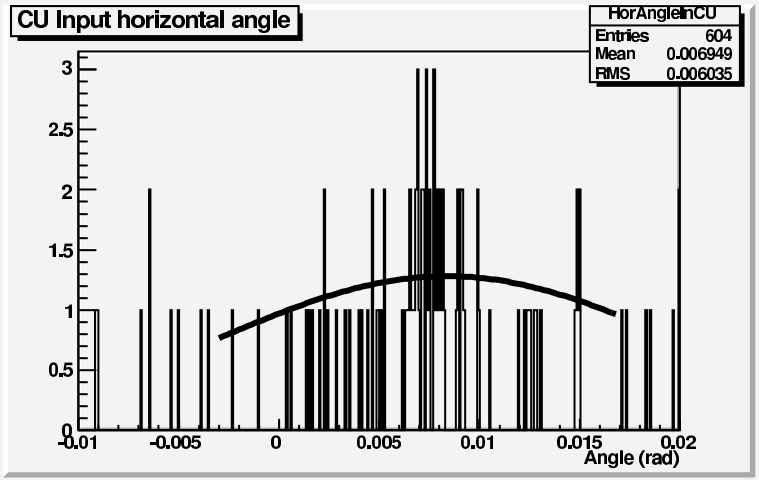

CU Input vertical angle
VertAngleInCU
Entries 2175
Mean 0.004879
RMS 0.006222
Angle (rad)

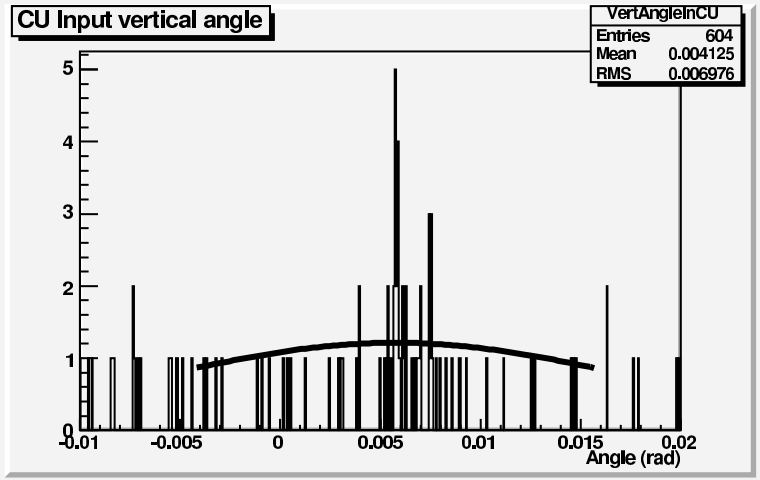

CU Input Beam Spot
SpotCoordInCU
Entries 2175
Mean x 385.3
Mean y 38.87
RMS x 18.27
RMS y 8.639
Vertical Position (mm)
Horizontal Position (mm)

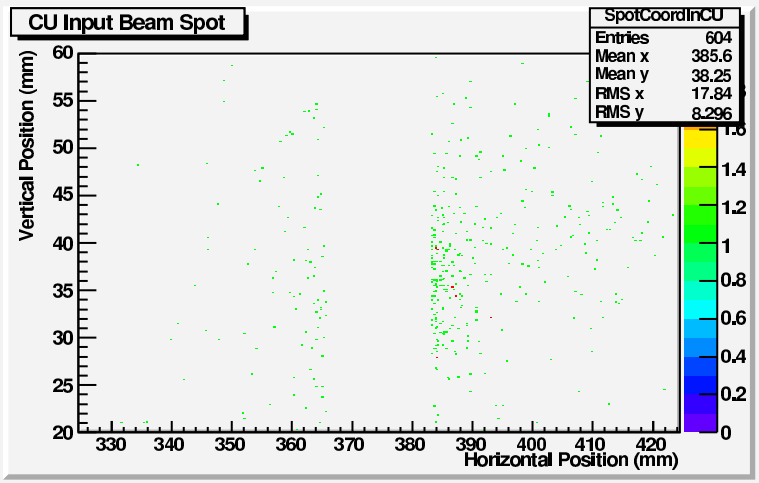

CU Input Beam Spot
SpotAngleInCU
Entries 2175
Mean x 0.004392
Mean y 0.007251
RMS x 0.006758
RMS y 0.005594
Vertical Angle (rad)
Horizontal Angle (rad)

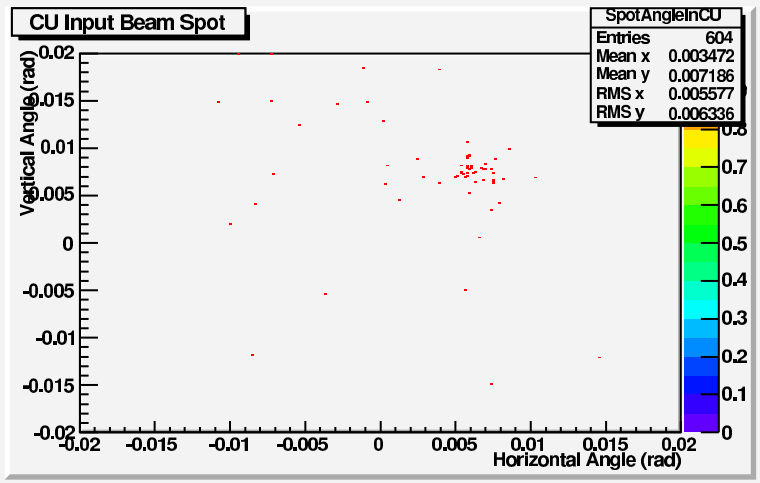

CU Input Horizontal coordinate
HorCoordInCU
Entries 604
Mean 385
RMS 25.89
Position (mm)

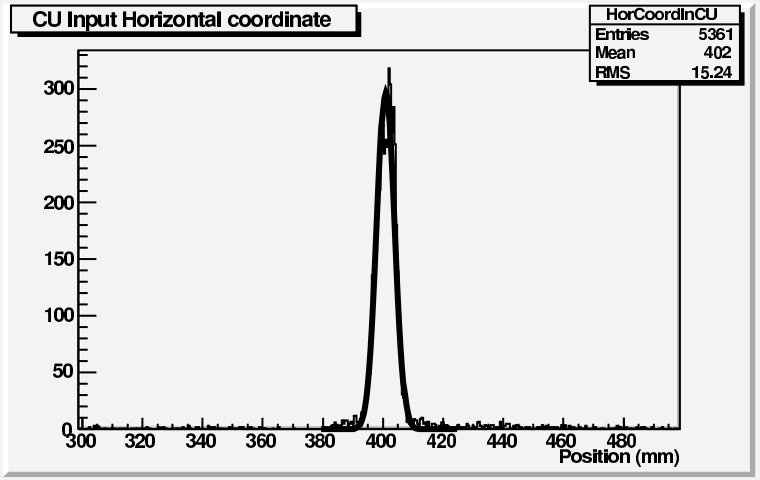

CU Input vertical coordinate
VertCoordInCU
Entries 604
Mean 36.7
RMS 15.15
Position (mm)

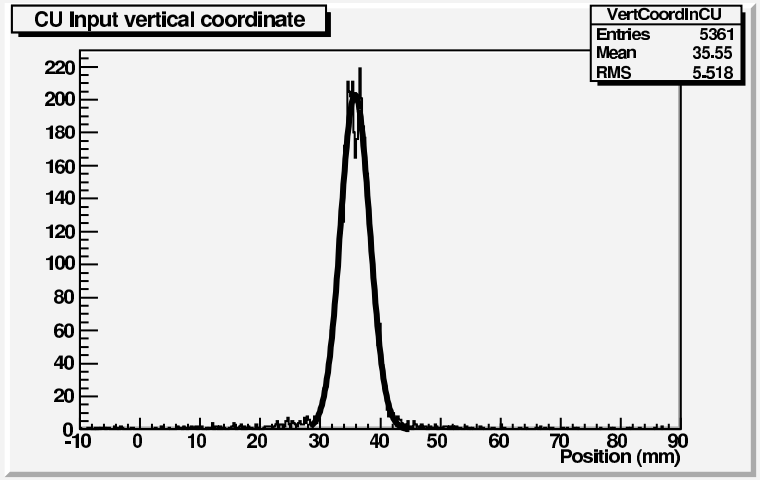

CU Input horizontal angle
HorAngleInCU
Entries 604
Mean 0.006949
RMS 0.006035
Angle (rad)

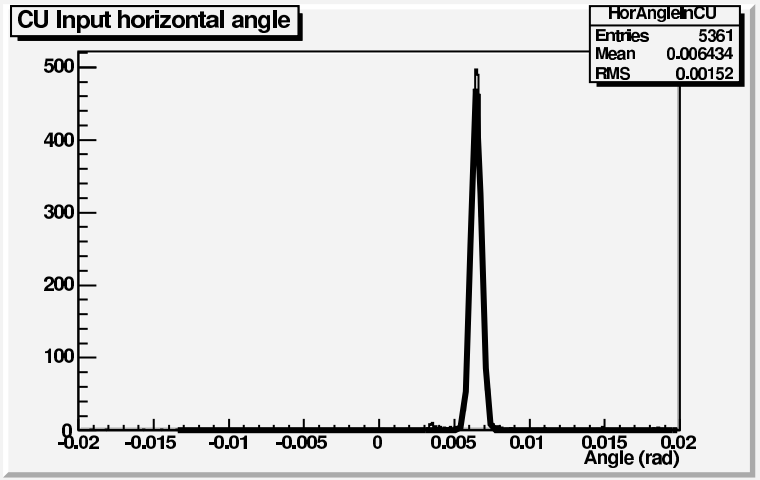

CU Input vertical angle
VertAngleInCU
Entries 604
Mean 0.004125
RMS 0.006976
Angle (rad)

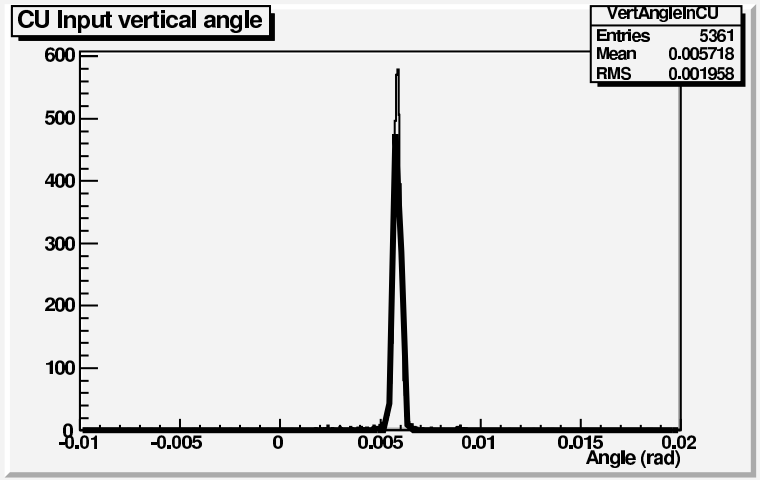

CU Input Beam Spot
SpotCoordInCU
Entries 604
Mean x 385.6
Mean y 38.25
RMS x 17.84
RMS y 8.296
Vertical Position (mm)
Horizontal Position (mm)

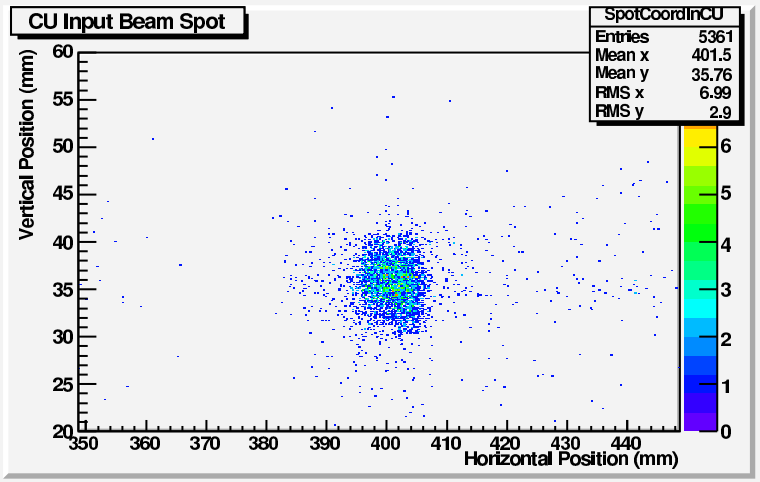

CU Input Beam Spot
SpotAngleInCU
Entries 604
Mean x 0.003472
Mean y 0.007186
RMS x 0.005577
RMS y 0.006336
Vertical Angle (rad)
Horizontal Angle (rad)

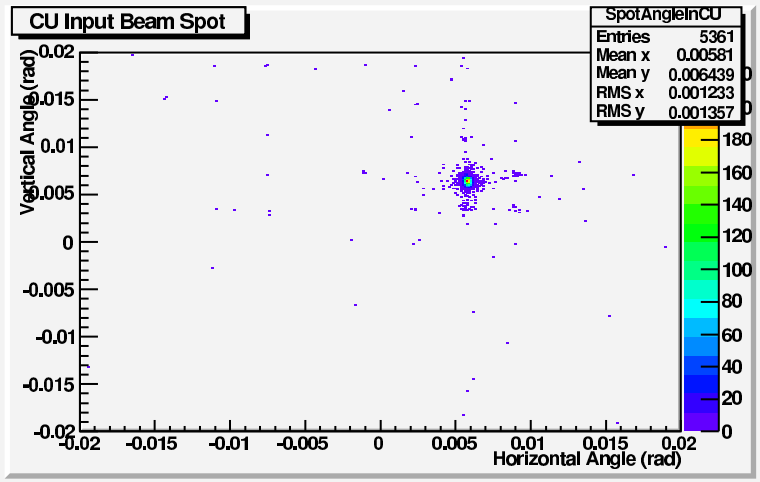

CU Input Horizontal coordinate
HorCoordInCU
Entries 5361
Mean 402
RMS 15.24
Position (mm)

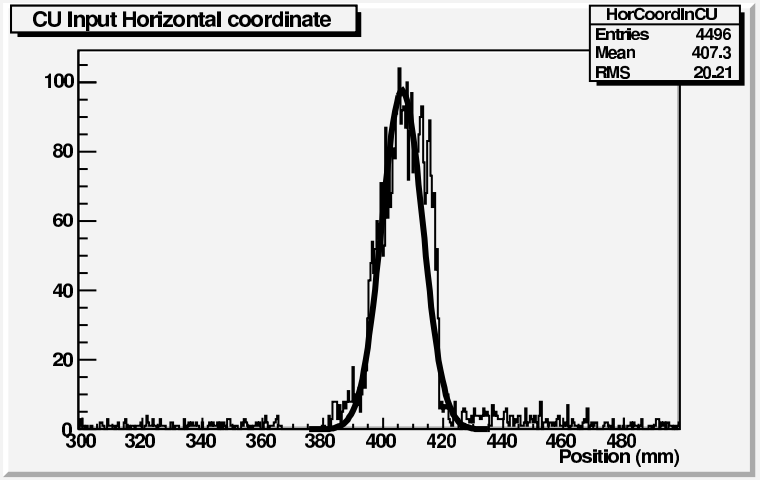

CU Input vertical coordinate
VertCoordInCU
Entries 5361
Mean 35.55
RMS 5.518
Position (mm)

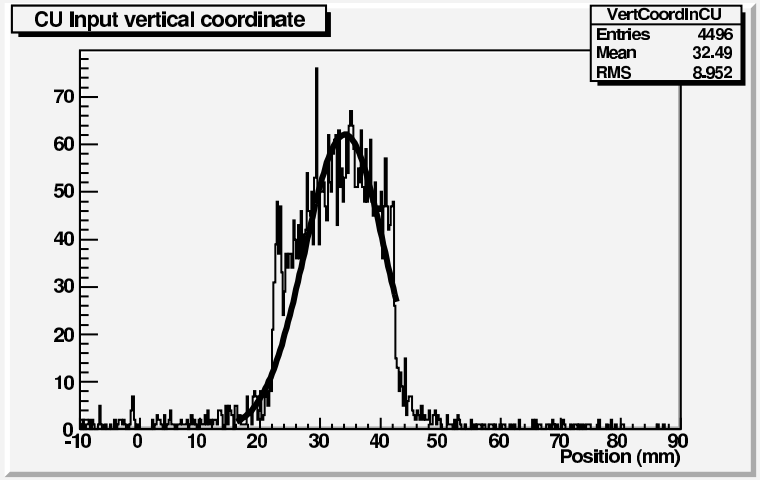

CU Input horizontal angle
HorAngleInCU
Entries 5361
Mean 0.006434
RMS 0.00152
Angle (rad)

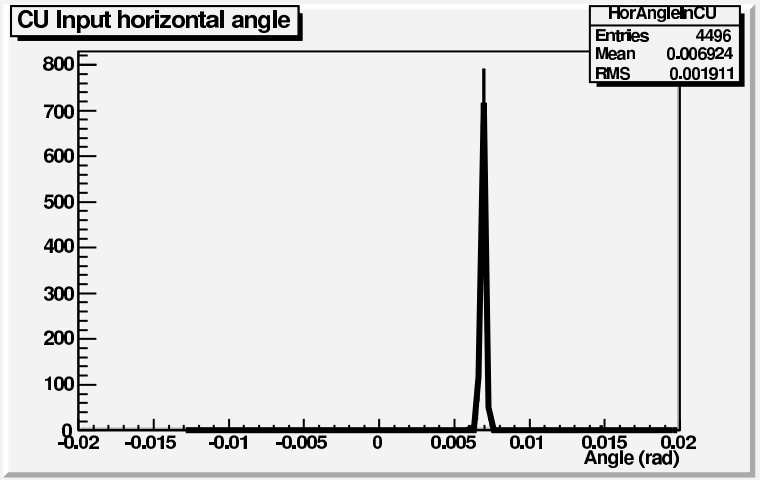

CU Input vertical angle
VertAngleInCU
Entries 5361
Mean 0.005718
RMS 0.001958
Angle (rad)

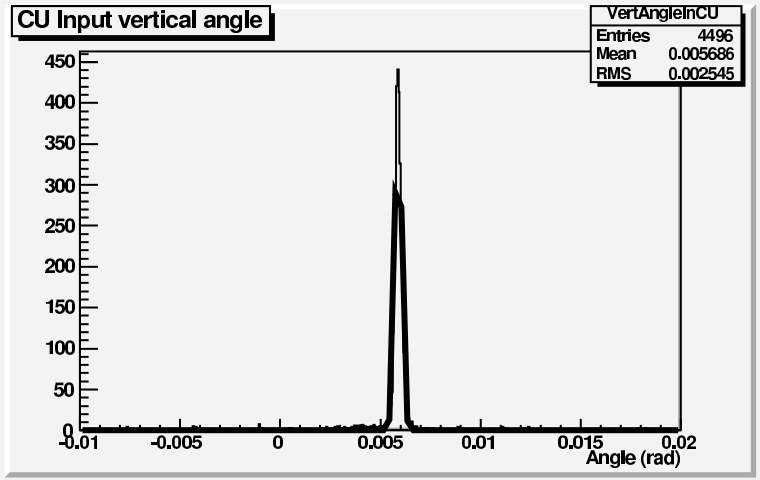

CU Input Beam Spot
SpotCoordInCU
Entries 5361
Mean x 401.5
Mean y 35.76
RMS x 6.99
RMS y 2.9
Vertical Position (mm)
Horizontal Position (mm)

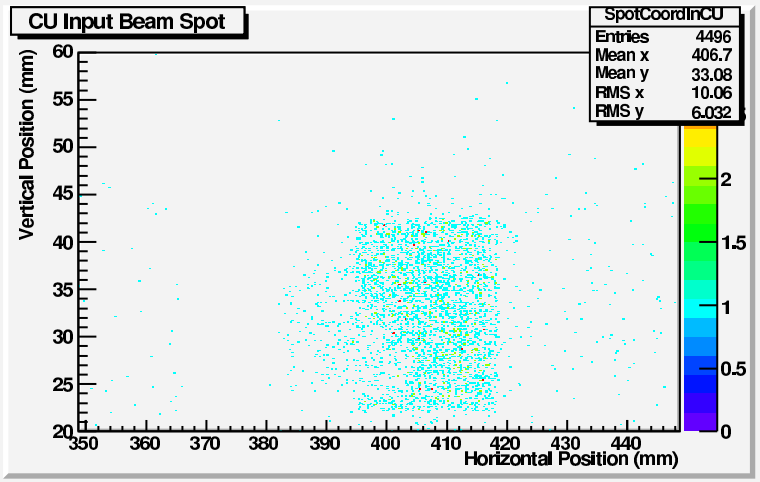

CU Input Beam Spot
SpotAngleInCU
Entries 5361
Mean x 0.00581
Mean y 0.006439
RMS x 0.001233
RMS y 0.001357
Vertical Angle (rad)
Horizontal Angle (rad)

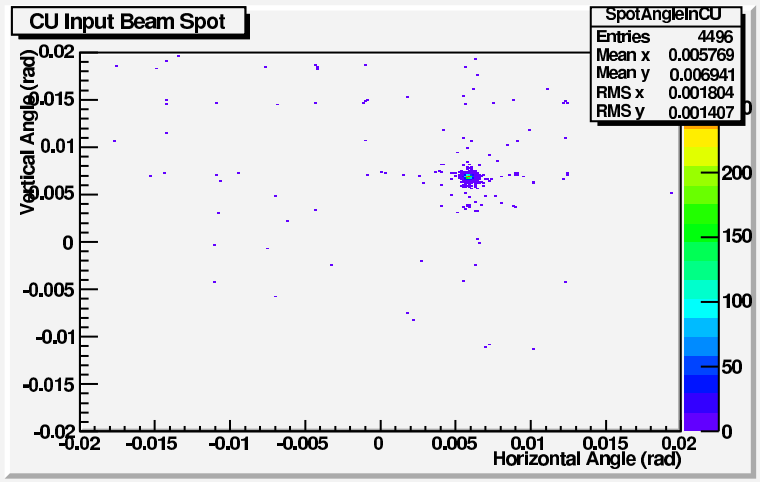

CU Input Horizontal coordinate
HorCoordInCU
Entries 4496
Mean 407.3
RMS 20.21
Position (mm)

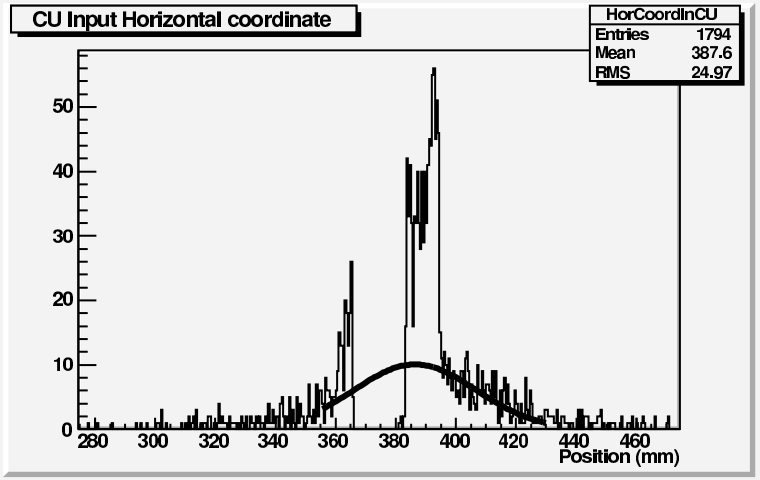

CU Input vertical coordinate
VertCoordInCU
Entries 4496
Mean 32.49
RMS 8.952
Position (mm)

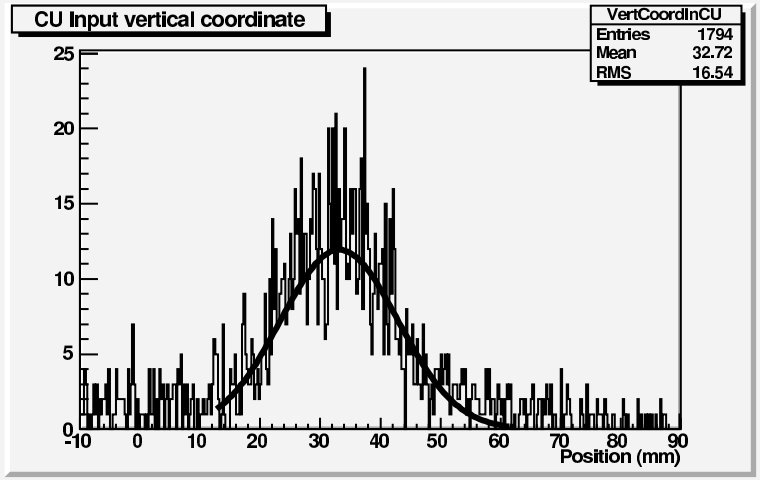

CU Input horizontal angle
HorAngleInCU
Entries 4496
Mean 0.006924
RMS 0.001911
Angle (rad)

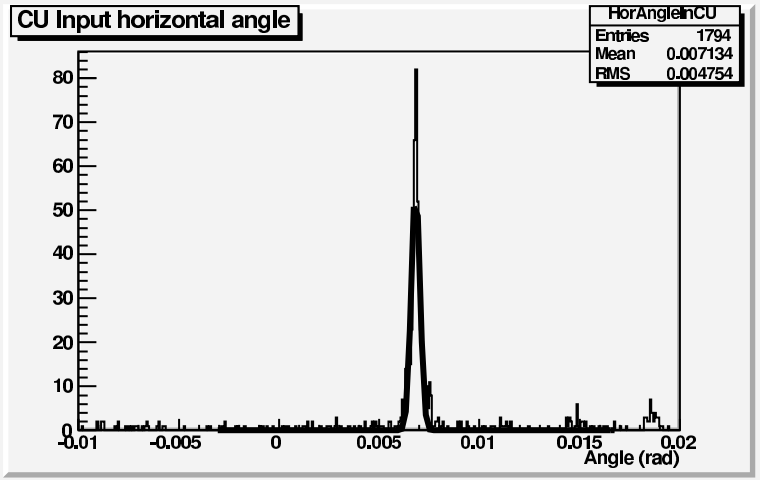

CU Input vertical angle
VertAngleInCU
Entries 4496
Mean 0.005686
RMS 0.002545
Angle (rad)

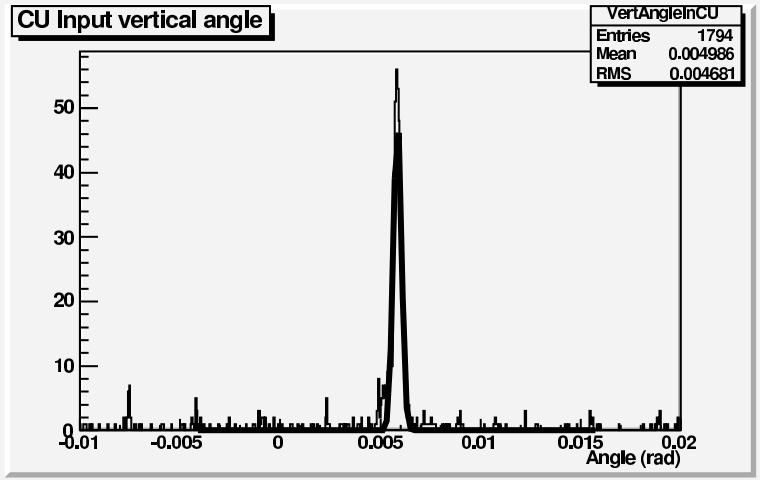

CU Input Beam Spot
SpotCoordInCU
Entries 4496
Mean x 406.7
Mean y 33.08
RMS x 10.06
RMS y 6.032
Vertical Position (mm)
Horizontal Position (mm)

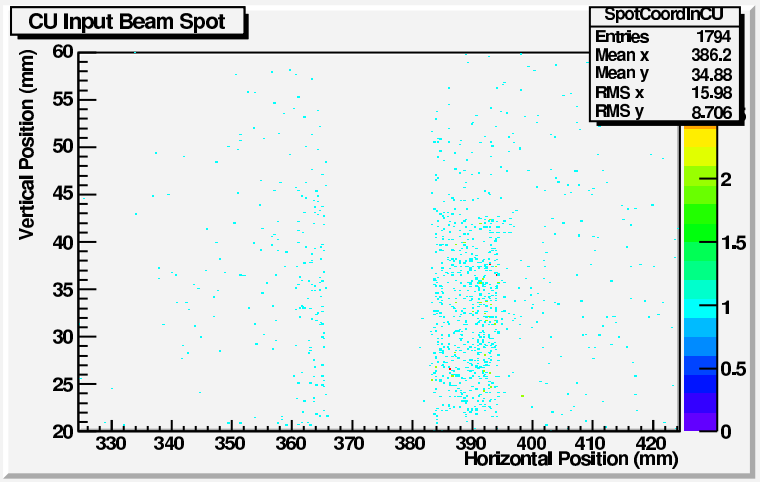

CU Input Beam Spot
SpotAngleInCU
Entries 4496
Mean x 0.005769
Mean y 0.006941
RMS x 0.001804
RMS y 0.001407
Vertical Angle (rad)
Horizontal Angle (rad)

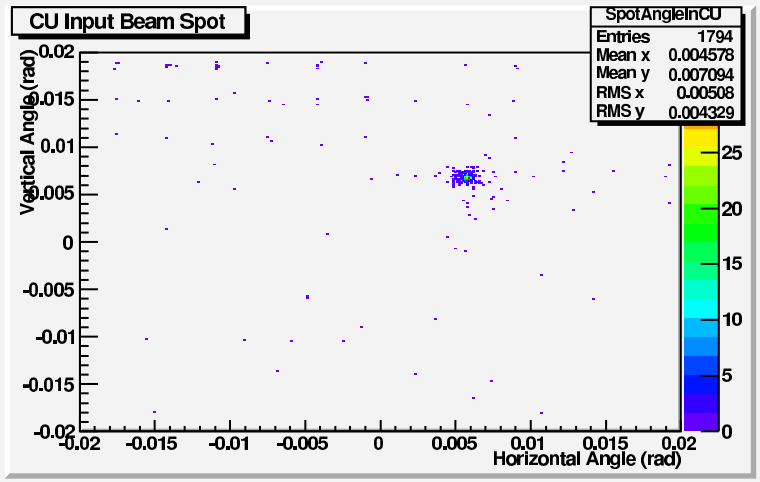

CU Input Horizontal coordinate
HorCoordInCU
Entries 1794
Mean 387.6
RMS 24.97
Position (mm)

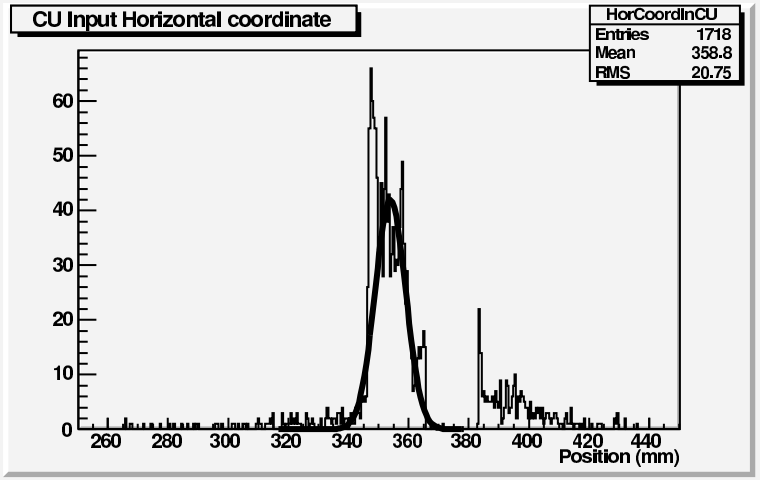

CU Input vertical coordinate
VertCoordInCU
Entries 1794
Mean 32.72
RMS 16.54
Position (mm)

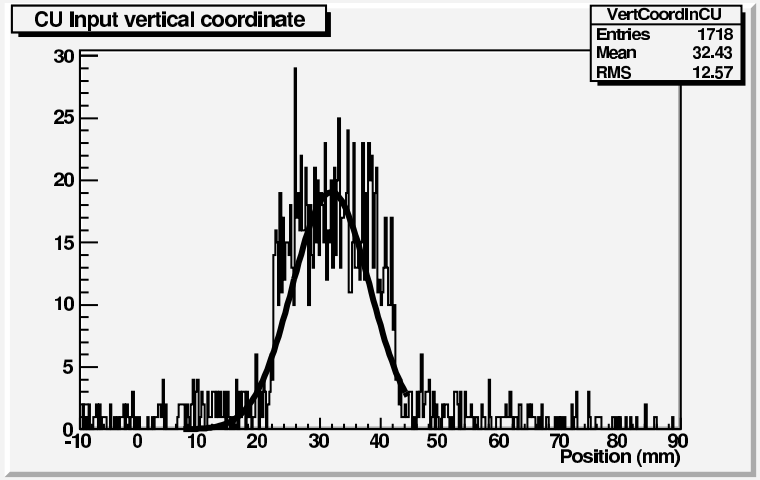

CU Input horizontal angle
HorAngleInCU
Entries 1794
Mean 0.007134
RMS 0.004754
Angle (rad)

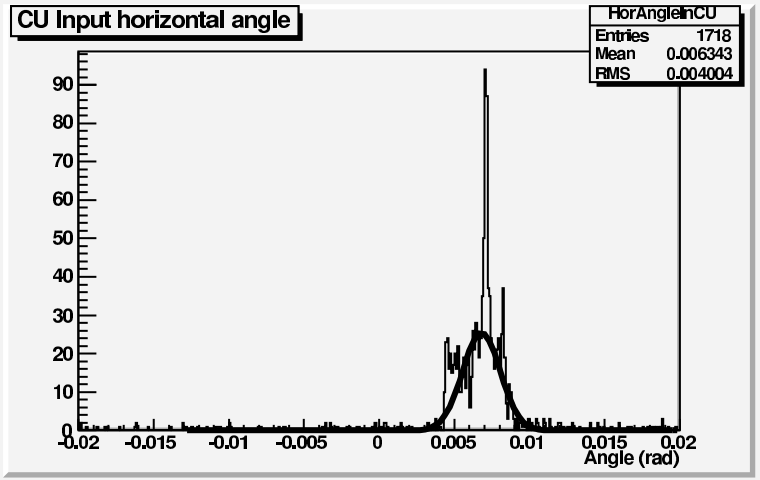

CU Input vertical angle
VertAngleInCU
Entries 1794
Mean 0.004986
RMS 0.004681
Angle (rad)

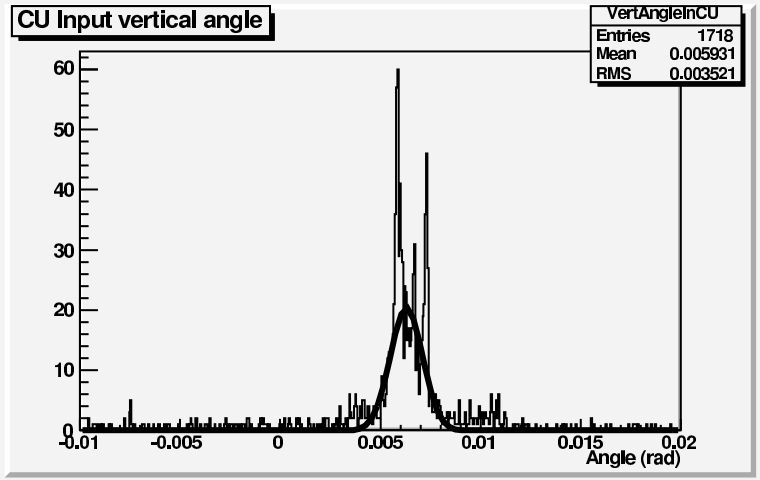

CU Input Beam Spot
SpotCoordInCU
Entries 1794
Mean x 386.2
Mean y 34.88
RMS x 15.98
RMS y 8.706
Vertical Position (mm)
Horizontal Position (mm)

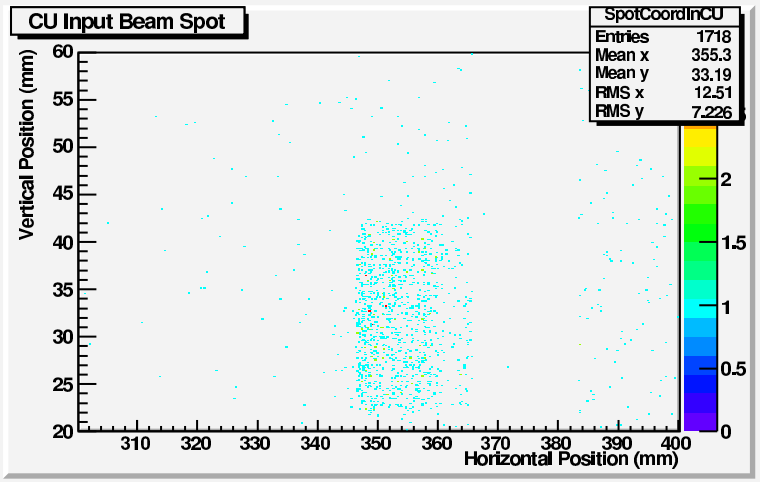

CU Input Beam Spot
SpotAngleInCU
Entries 1794
Mean x 0.004578
Mean y 0.007094
RMS x 0.00508
RMS y 0.004329
Vertical Angle (rad)
Horizontal Angle (rad)

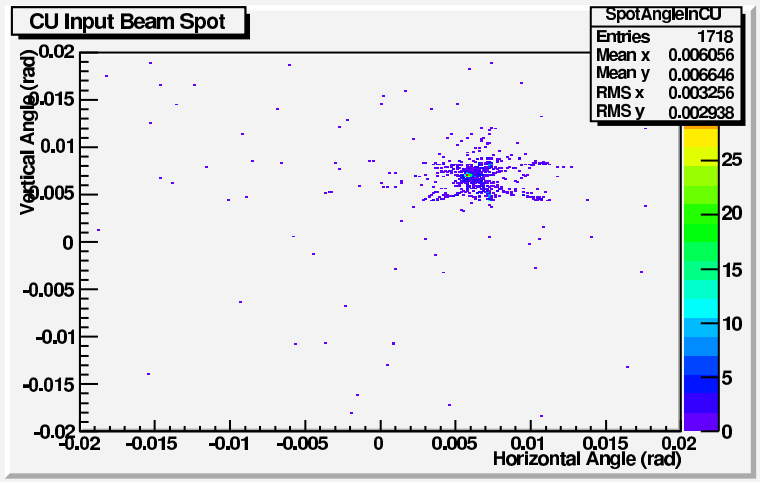

CU Input Horizontal coordinate
HorCoordInCU
Entries 1718
Mean 358.8
RMS 20.75
Position (mm)

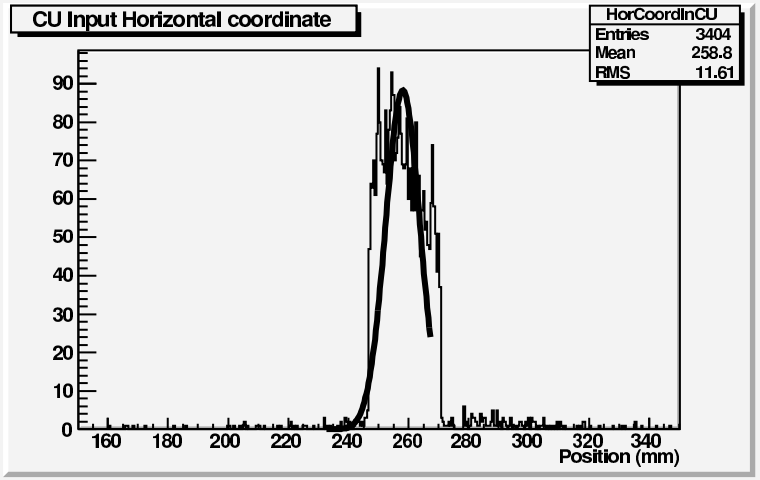

CU Input vertical coordinate
VertCoordInCU
Entries 1718
Mean 32.43
RMS 12.57
Position (mm)

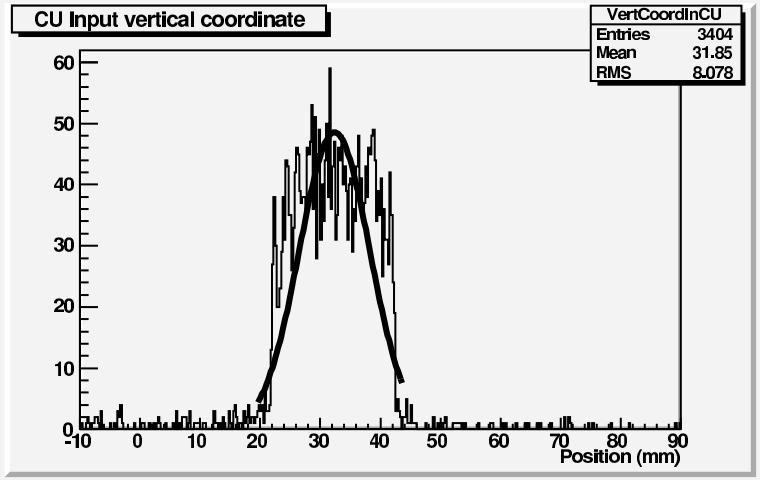

CU Input horizontal angle
HorAngleInCU
Entries 1718
Mean 0.006343
RMS 0.004004
Angle (rad)

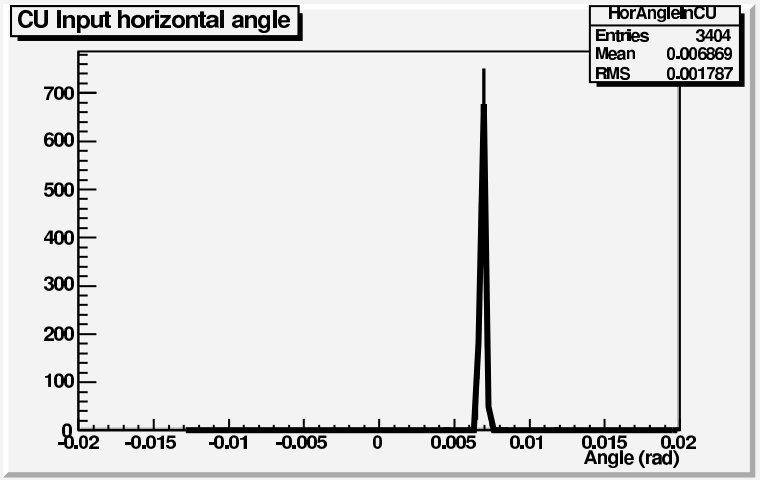

CU Input vertical angle
VertAngleInCU
Entries 1718
Mean 0.005931
RMS 0.003521
Angle (rad)

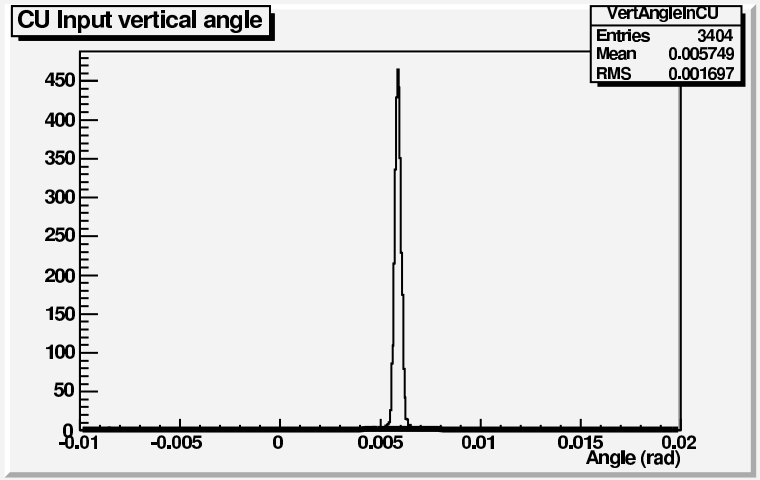

CU Input Beam Spot
SpotCoordInCU
Entries 1718
Mean x 355.3
Mean y 33.19
RMS x 12.51
RMS y 7.226
Vertical Position (mm)
Horizontal Position (mm)

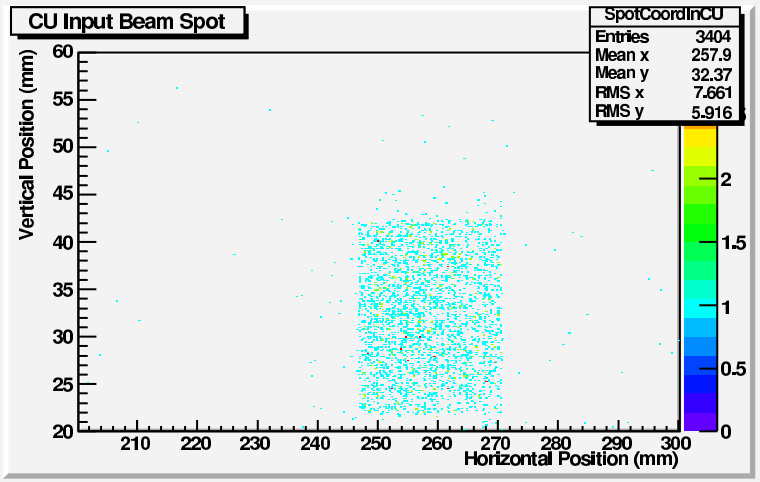

CU Input Beam Spot
SpotAngleInCU
Entries 1718
Mean x 0.006056
Mean y 0.006646
RMS x 0.003256
RMS y 0.002938
Vertical Angle (rad)
Horizontal Angle (rad)

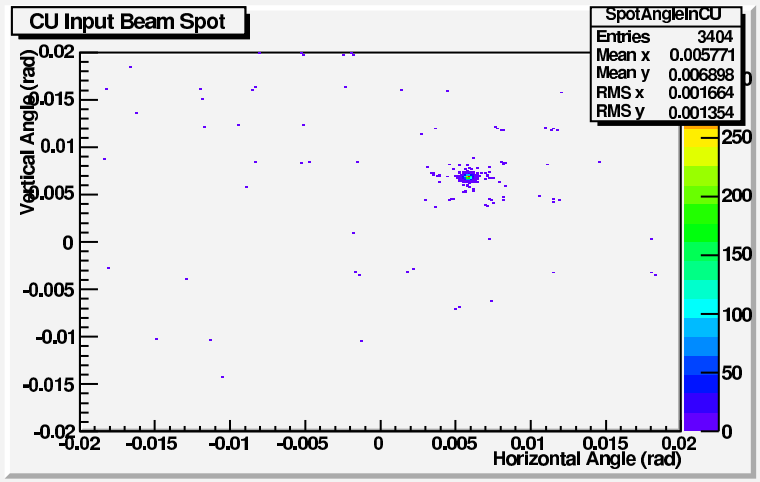

CU Input Horizontal coordinate
HorCoordInCU
Entries 3404
Mean 258.8
RMS 11.61
Position (mm)

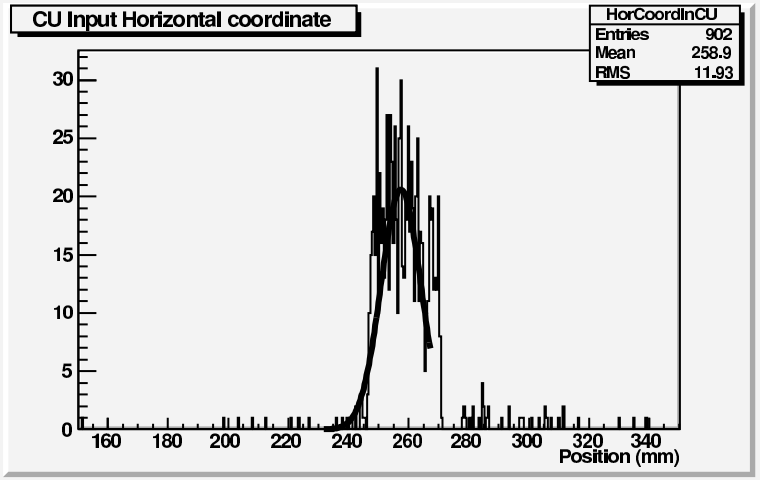

CU Input vertical coordinate
VertCoordInCU
Entries 3404
Mean 31.85
RMS 8.078
Position (mm)

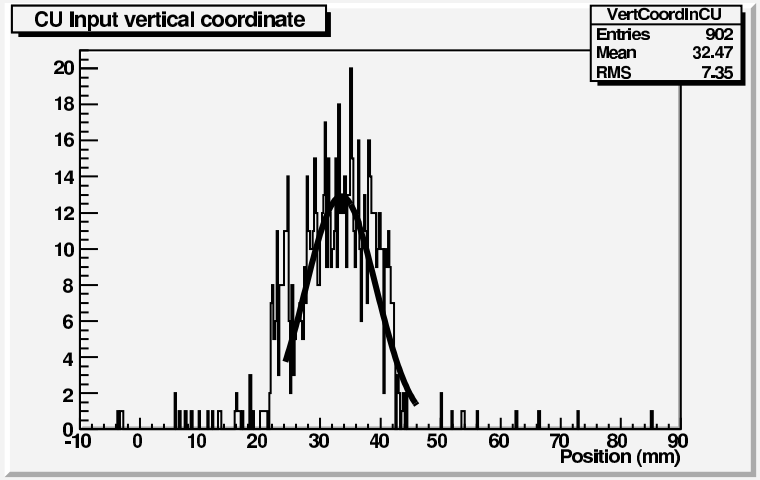

CU Input horizontal angle
HorAngleInCU
Entries 3404
Mean 0.006869
RMS 0.001787
Angle (rad)

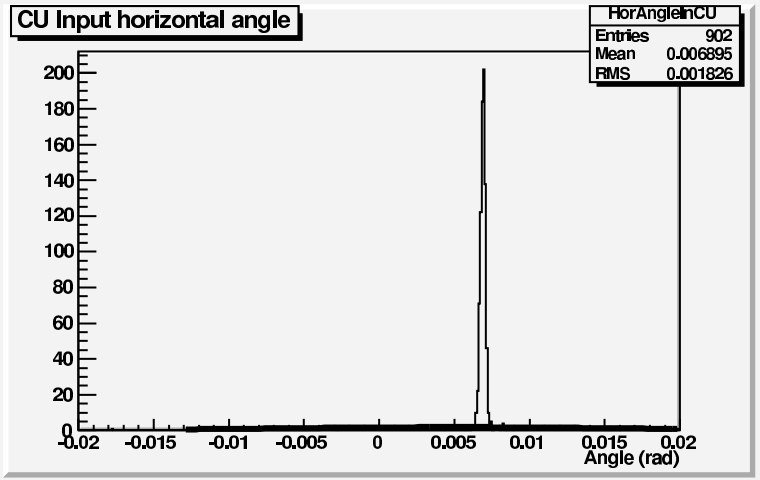

CU Input vertical angle
VertAngleInCU
Entries 3404
Mean 0.005749
RMS 0.001697
Angle (rad)

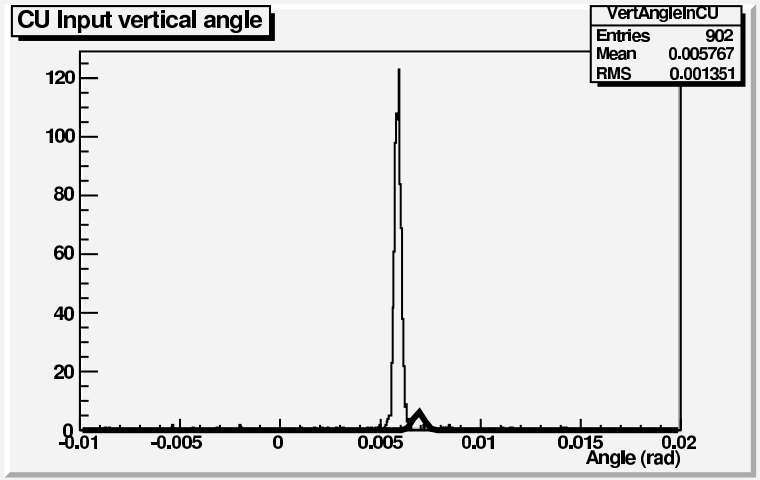

CU Input Beam Spot
SpotCoordInCU
Entries 3404
Mean x 257.9
Mean y 32.37
RMS x 7.661
RMS y 5.916
Vertical Position (mm)
Horizontal Position (mm)

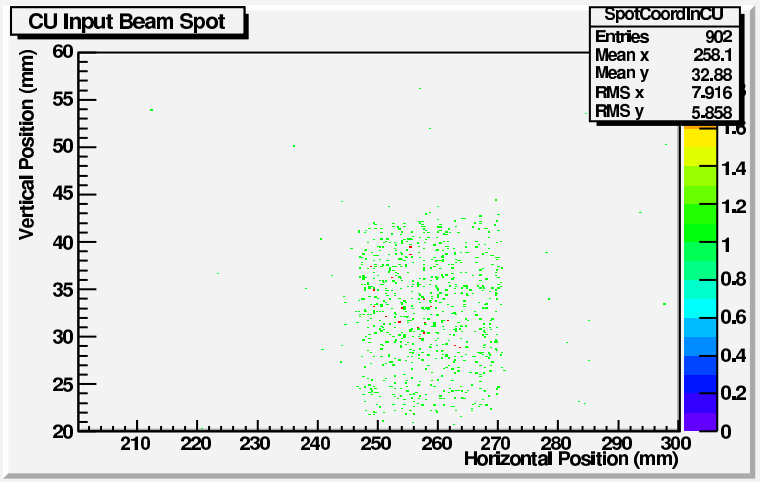

CU Input Beam Spot
SpotAngleInCU
Entries 3404
Mean x 0.005771
Mean y 0.006898
RMS x 0.001664
RMS y 0.001354
Vertical Angle (rad)
Horizontal Angle (rad)

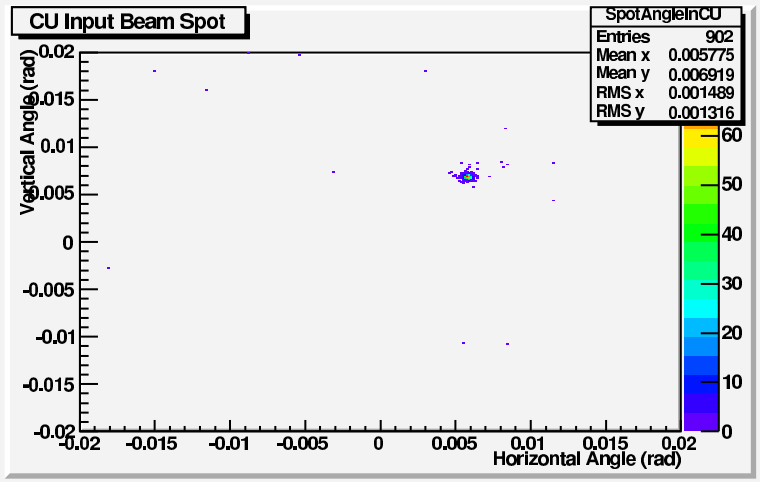

CU Input Horizontal coordinate
HorCoordInCU
Entries 902
Mean 258.9
RMS 11.93
Position (mm)

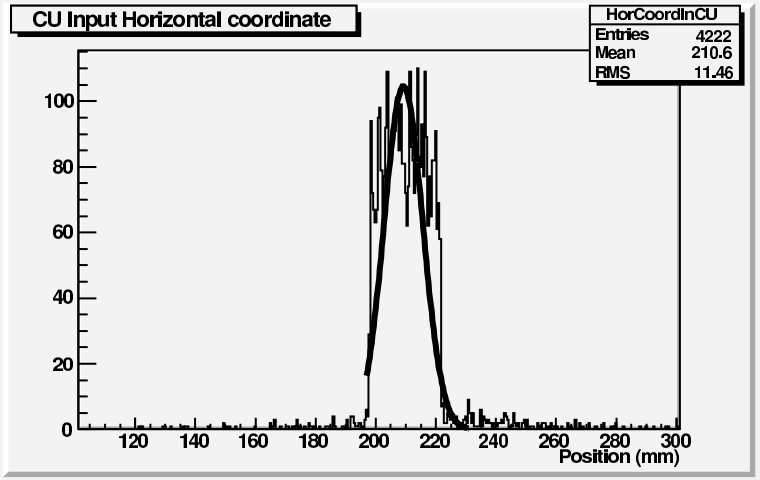

CU Input vertical coordinate
VertCoordInCU
Entries 902
Mean 32.47
RMS 7.35
Position (mm)

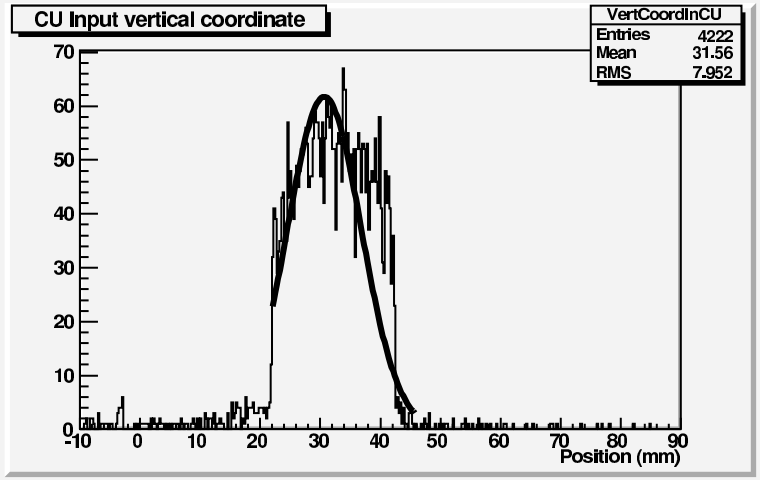

CU Input horizontal angle
HorAngleInCU
Entries 902
Mean 0.006895
RMS 0.001826
Angle (rad)

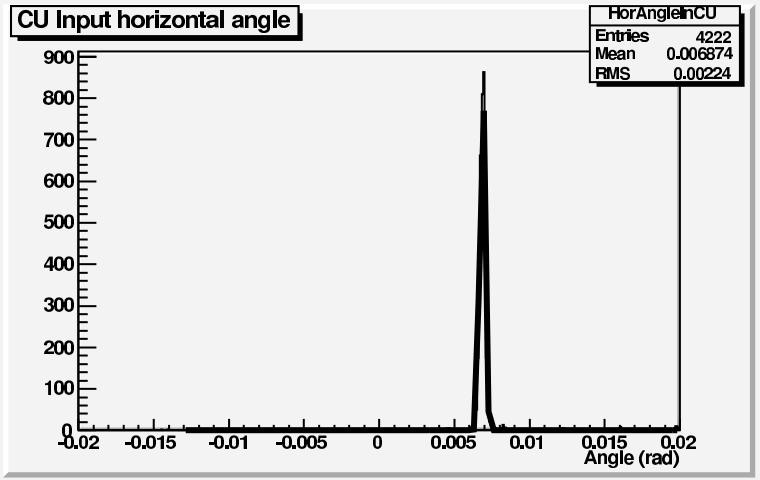

CU Input vertical angle
VertAngleInCU
Entries 902
Mean 0.005767
RMS 0.001351
Angle (rad)

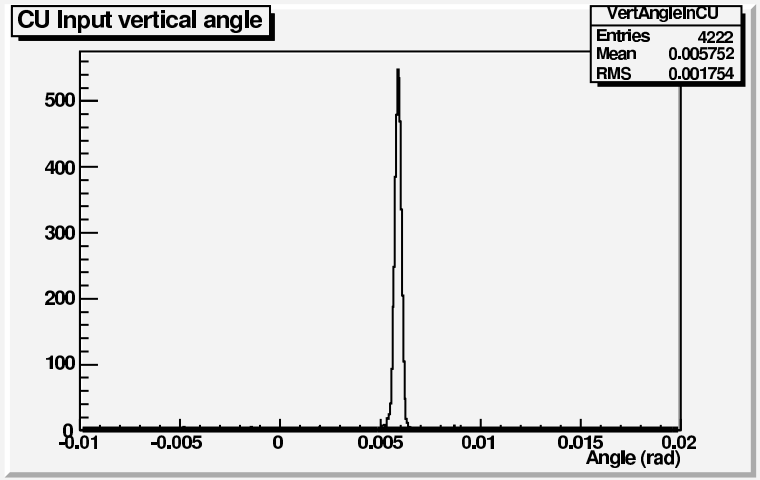

CU Input Beam Spot
SpotCoordInCU
Entries 902
Mean x 258.1
Mean y 32.88
RMS x 7.916
RMS y 5.858
Vertical Position (mm)
Horizontal Position (mm)

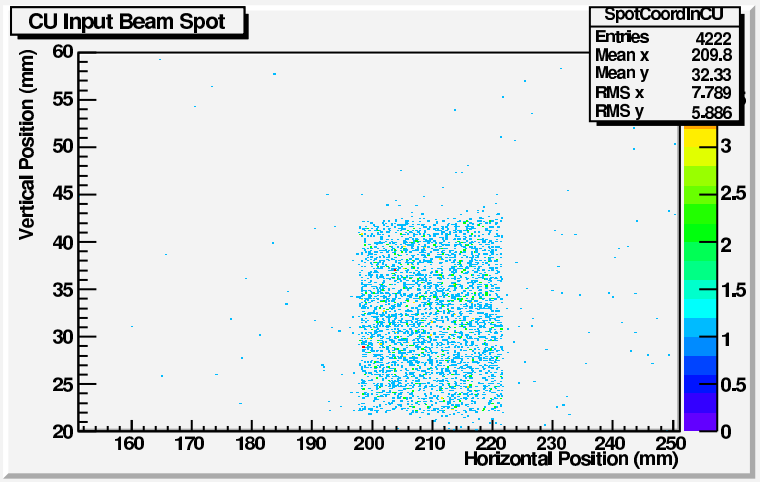

CU Input Beam Spot
SpotAngleInCU
Entries 902
Mean x 0.005775
Mean y 0.006919
RMS x 0.001489
RMS y 0.001316
Vertical Angle (rad)
Horizontal Angle (rad)

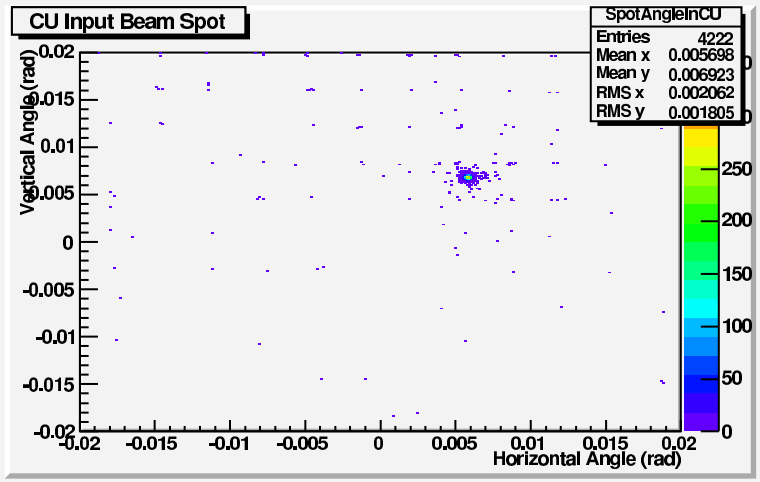

CU Input Horizontal coordinate
HorCoordInCU
Entries 4222
Mean 210.6
RMS 11.46
Position (mm)

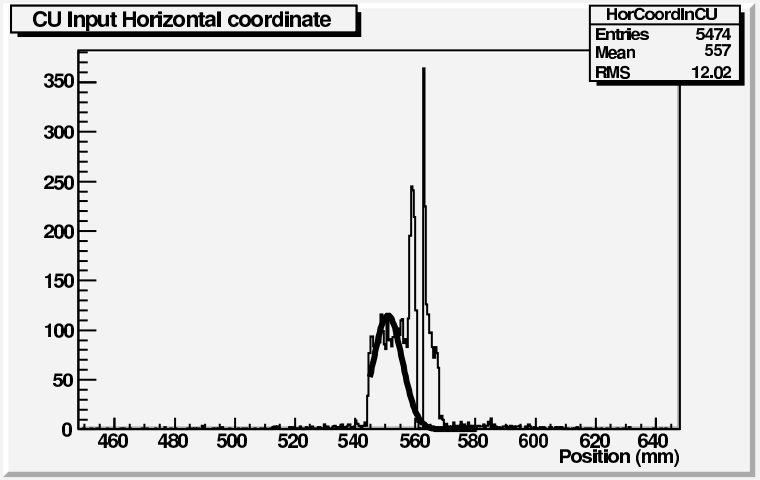

CU Input vertical coordinate
VertCoordInCU
Entries 4222
Mean 31.56
RMS 7.952
Position (mm)

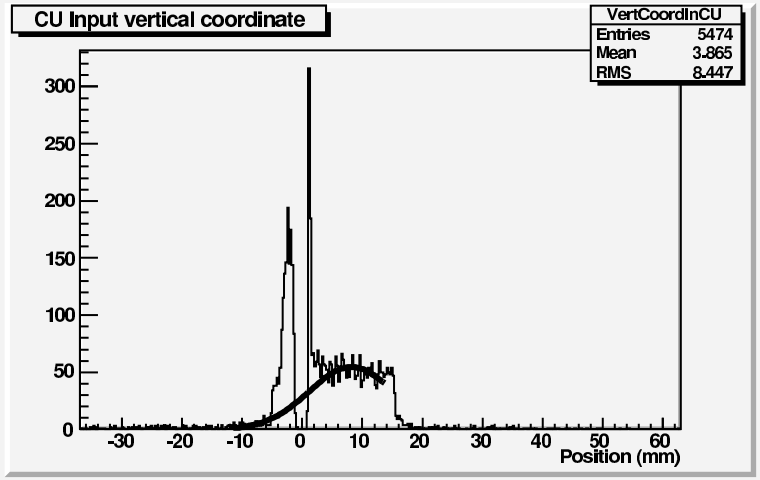

CU Input horizontal angle
HorAngleInCU
Entries 4222
Mean 0.006874
RMS 0.00224
Angle (rad)

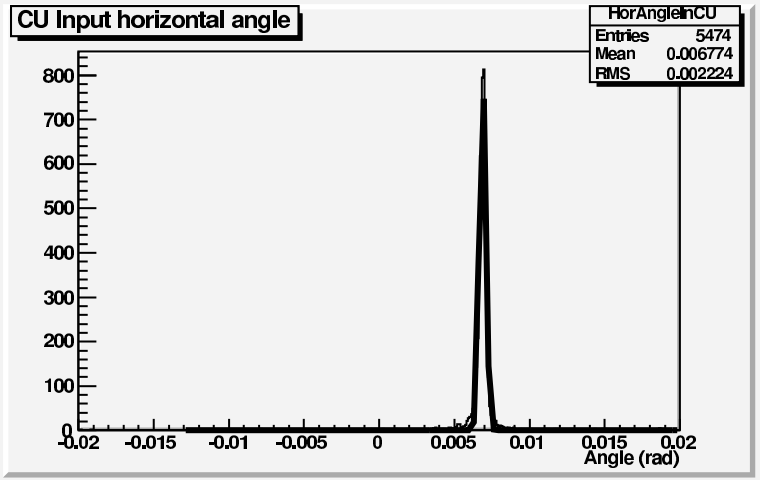

CU Input vertical angle
VertAngleInCU
Entries 4222
Mean 0.005752
RMS 0.001754
Angle (rad)

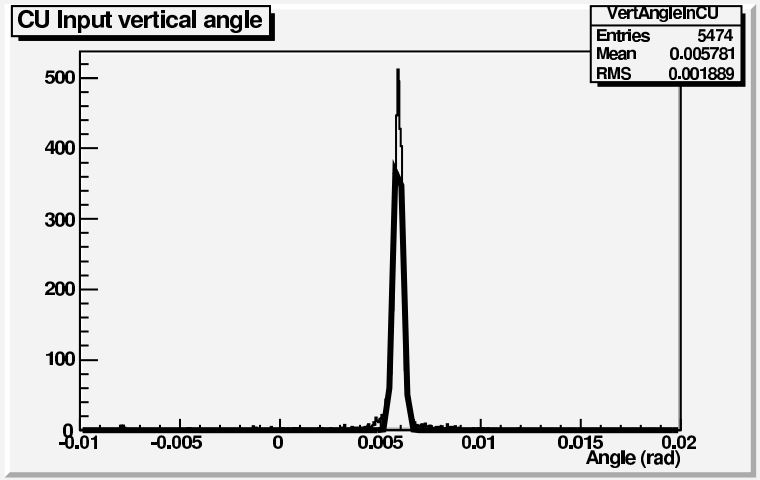

CU Input Beam Spot
SpotCoordInCU
Entries 4222
Mean x 209.8
Mean y 32.33
RMS x 7.789
RMS y 5.886
Vertical Position (mm)
Horizontal Position (mm)

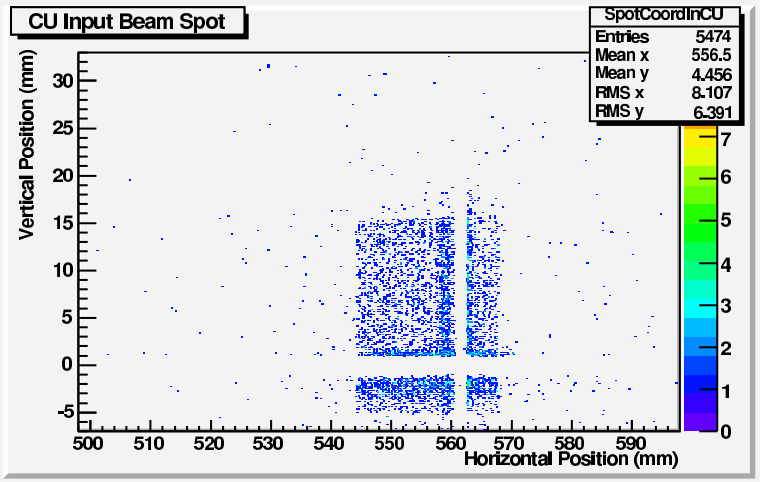

CU Input Beam Spot
SpotAngleInCU
Entries 4222
Mean x 0.005698
Mean y 0.006923
RMS x 0.002062
RMS y 0.001805
Vertical Angle (rad)
Horizontal Angle (rad)

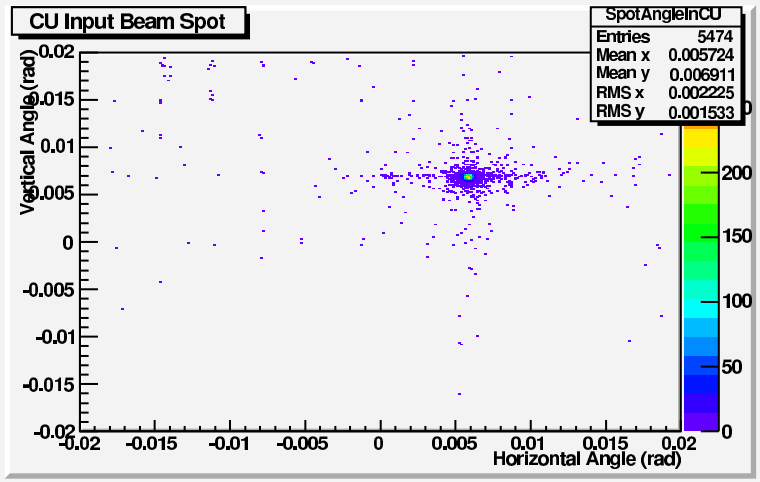

CU Input Horizontal coordinate
HorCoordInCU
Entries 5474
Mean 557
RMS 12.02
Position (mm)

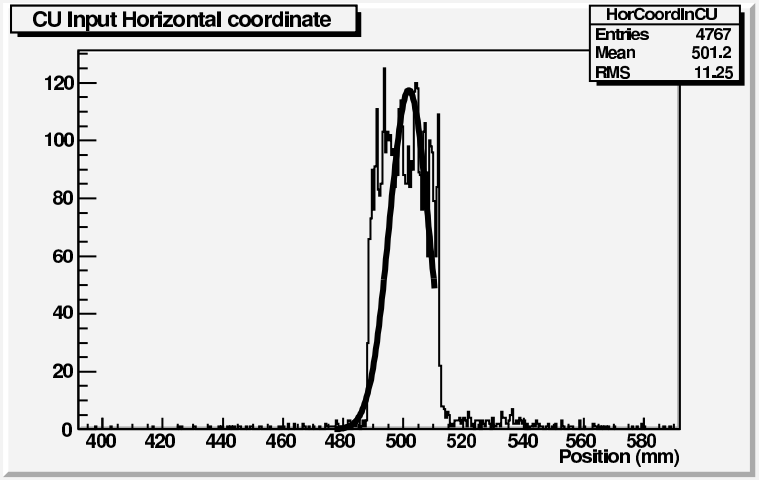

CU Input vertical coordinate
VertCoordInCU
Entries 5474
Mean 3.865
RMS 8.447
Position (mm)

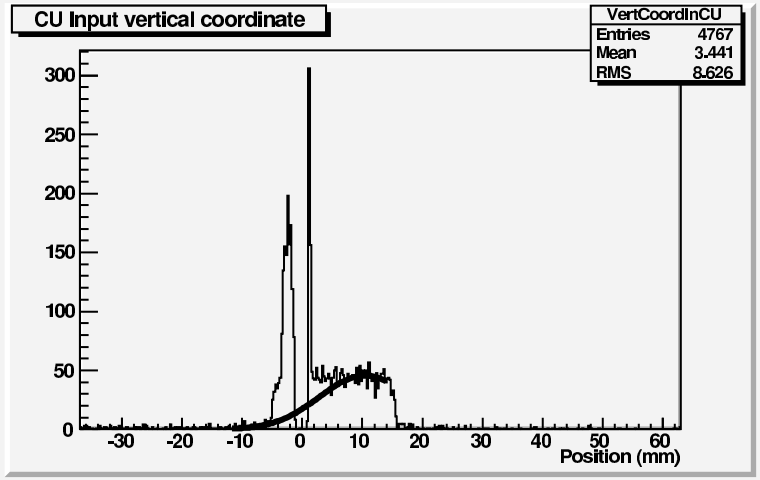

CU Input horizontal angle
HorAngleInCU
Entries 5474
Mean 0.006774
RMS 0.002224
Angle (rad)

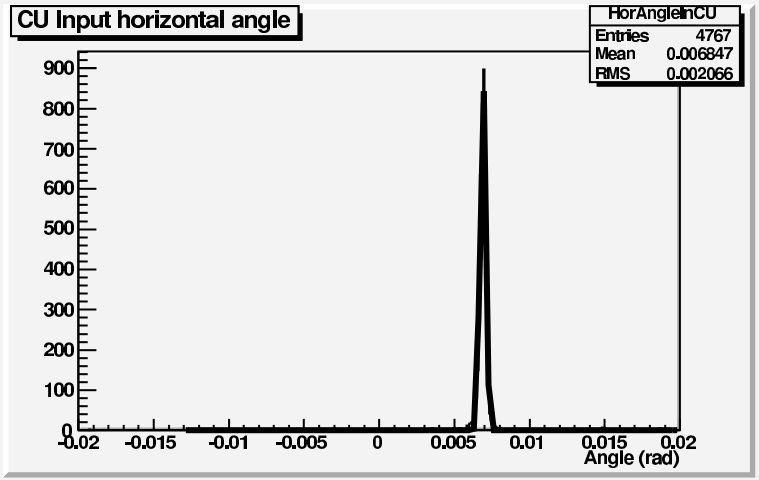

CU Input vertical angle
VertAngleInCU
Entries 5474
Mean 0.005781
RMS 0.001889
Angle (rad)

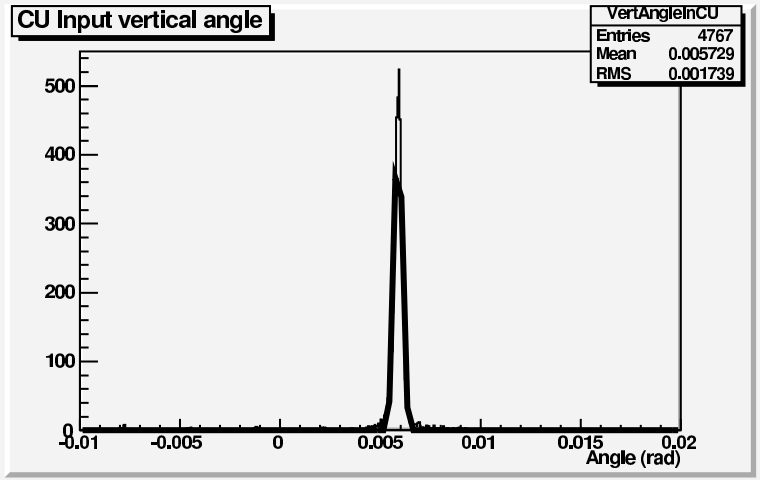

CU Input Beam Spot
SpotCoordInCU
Entries 5474
Mean x 556.5
Mean y 4.456
RMS x 8.107
RMS y 6.391
Vertical Position (mm)
Horizontal Position (mm)

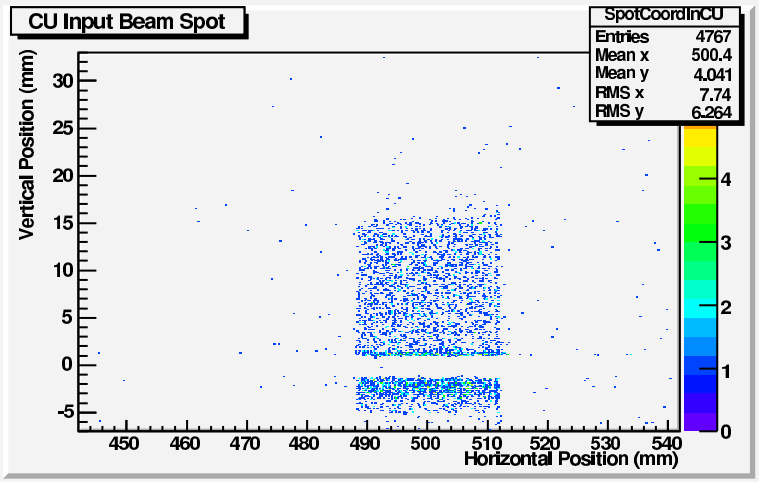

CU Input Beam Spot
SpotAngleInCU
Entries 5474
Mean x 0.005724
Mean y 0.006911
RMS x 0.002225
RMS y 0.001533
Vertical Angle (rad)
Horizontal Angle (rad)

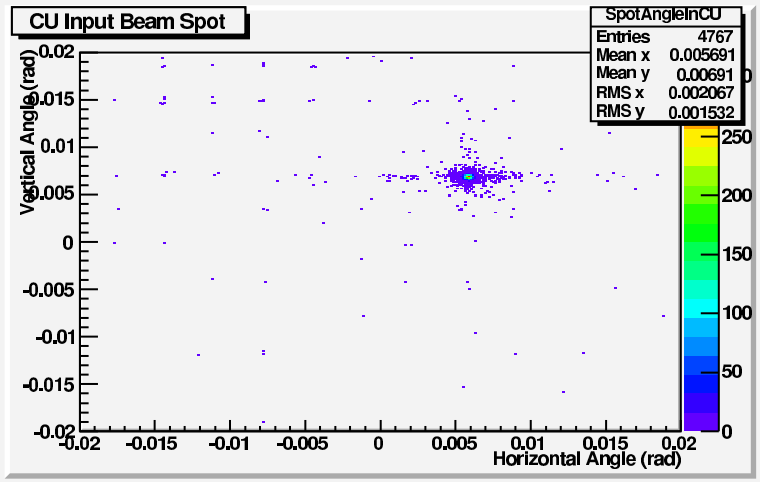

CU Input Horizontal coordinate
HorCoordInCU
Entries 4767
Mean 501.2
RMS 11.25
Position (mm)

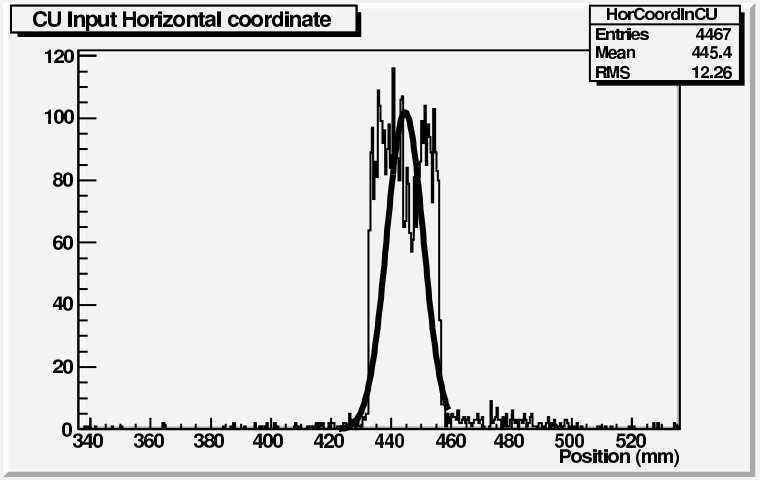

CU Input vertical coordinate
VertCoordInCU
Entries 4767
Mean 3.441
RMS 8.626
Position (mm)

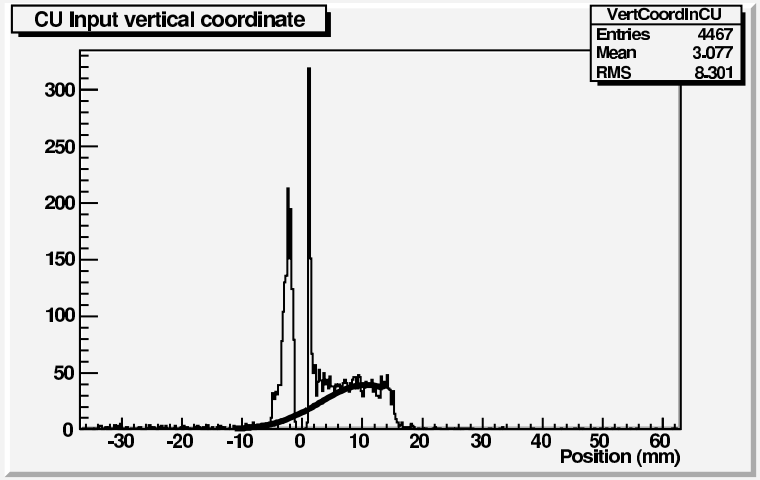

CU Input horizontal angle
HorAngleInCU
Entries 4767
Mean 0.006847
RMS 0.002066
Angle (rad)

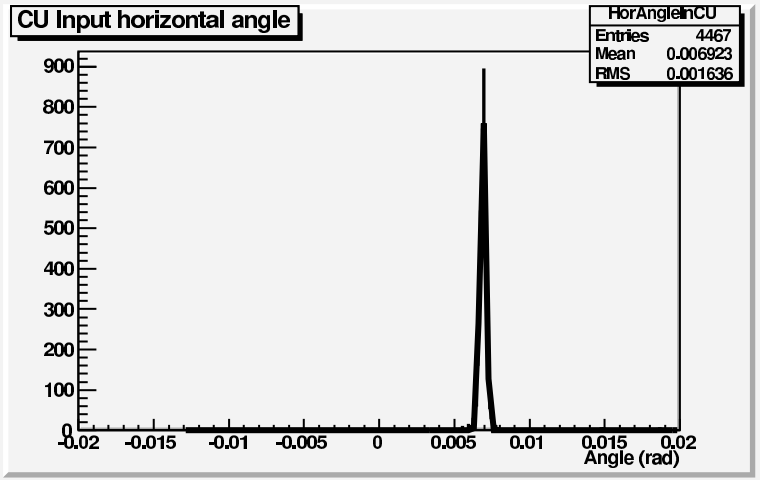

CU Input vertical angle
VertAngleInCU
Entries 4767
Mean 0.005729
RMS 0.001739
Angle (rad)

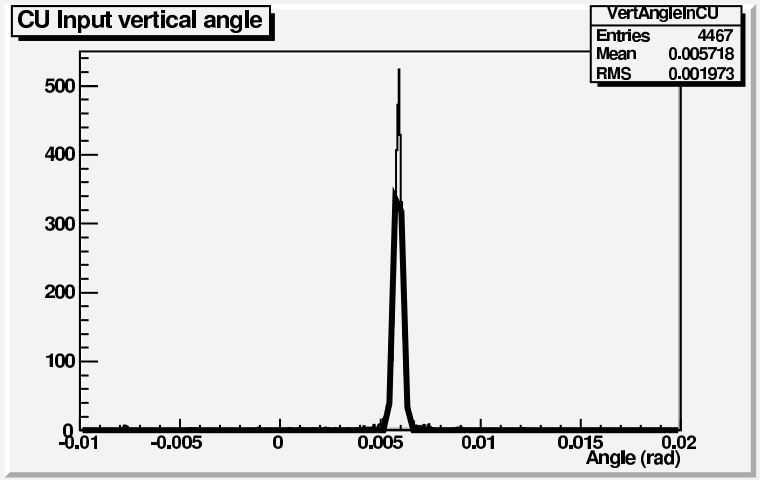

CU Input Beam Spot
SpotCoordInCU
Entries 4767
Mean x 500.4
Mean y 4.041
RMS x 7.74
RMS y 6.264
Vertical Position (mm)
Horizontal Position (mm)

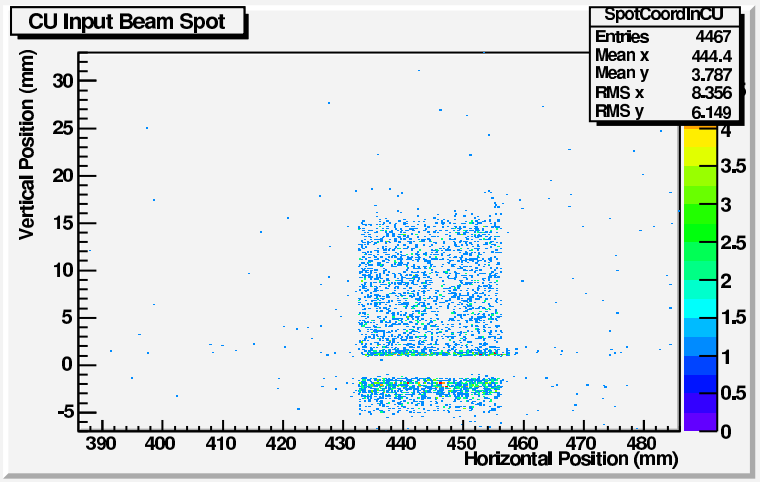

CU Input Beam Spot
SpotAngleInCU
Entries 4767
Mean x 0.005691
Mean y 0.00691
RMS x 0.002067
RMS y 0.001532
Vertical Angle (rad)
Horizontal Angle (rad)

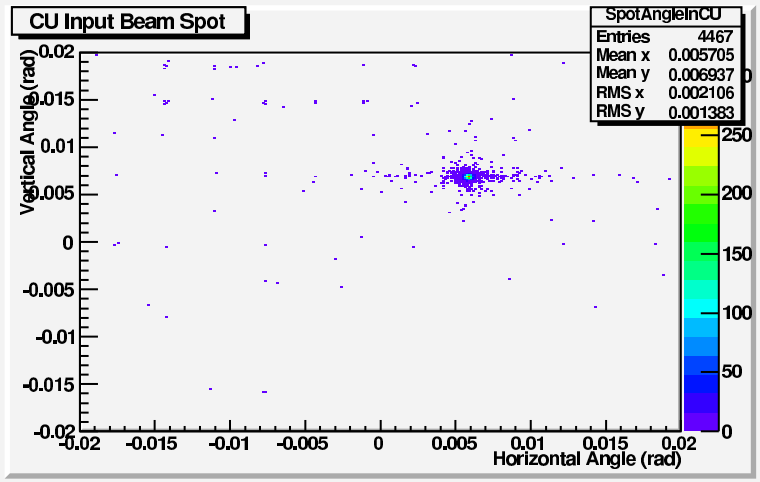

CU Input Horizontal coordinate
HorCoordInCU
Entries 4467
Mean 445.4
RMS 12.26
Position (mm)

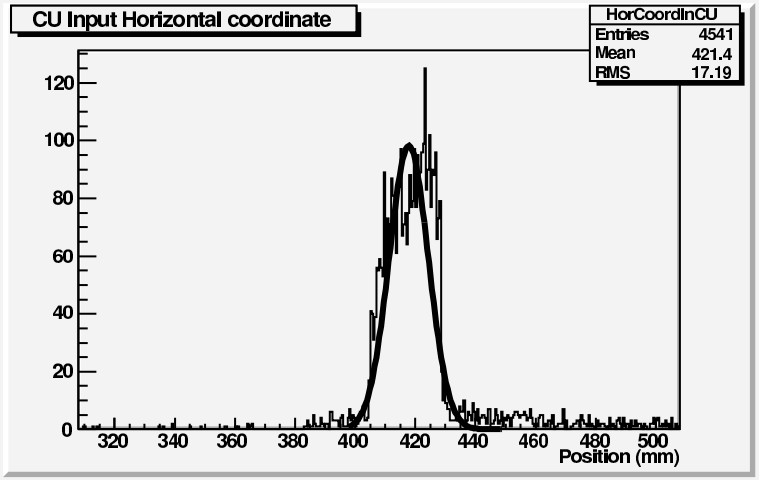

CU Input vertical coordinate
VertCoordInCU
Entries 4467
Mean 3.077
RMS 8.301
Position (mm)

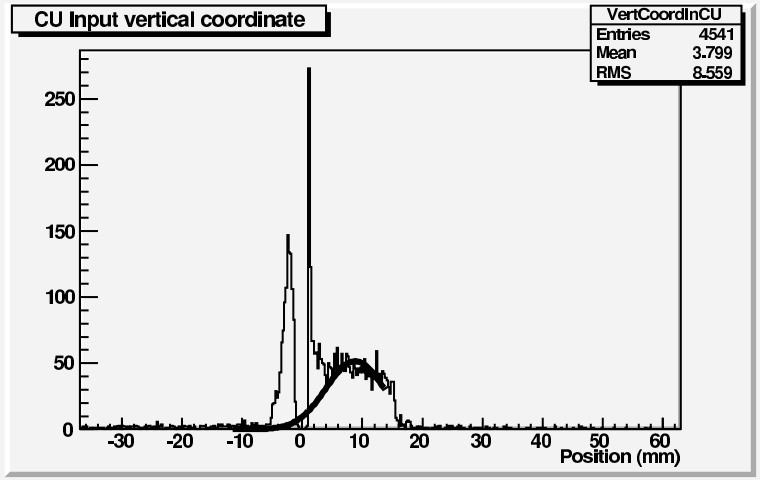

CU Input horizontal angle
HorAngleInCU
Entries 4467
Mean 0.006923
RMS 0.001636
Angle (rad)

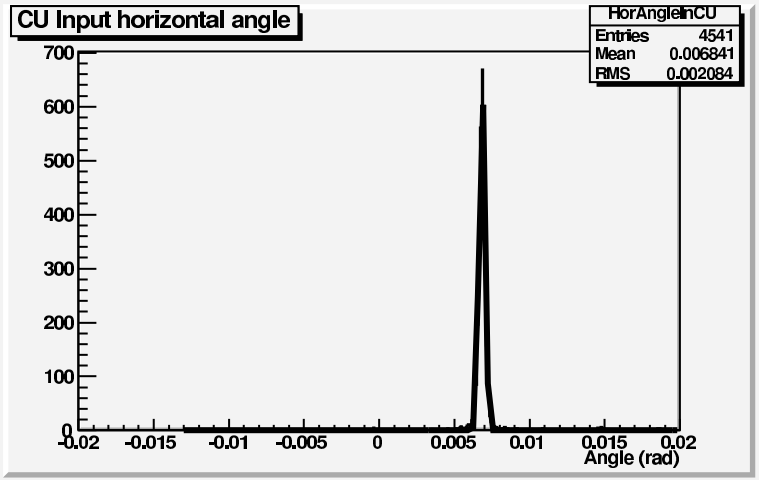

CU Input vertical angle
VertAngleInCU
Entries 4467
Mean 0.005718
RMS 0.001973
Angle (rad)

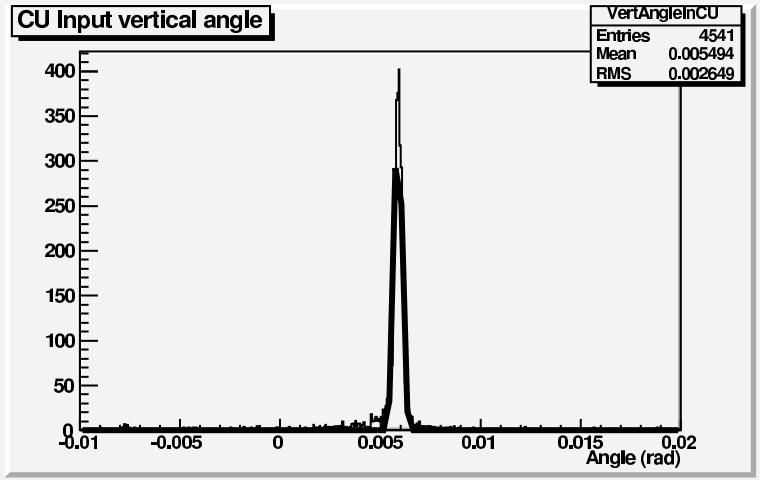

CU Input Beam Spot
SpotCoordInCU
Entries 4467
Mean x 444.4
Mean y 3.787
RMS x 8.356
RMS y 6.149
Vertical Position (mm)
Horizontal Position (mm)

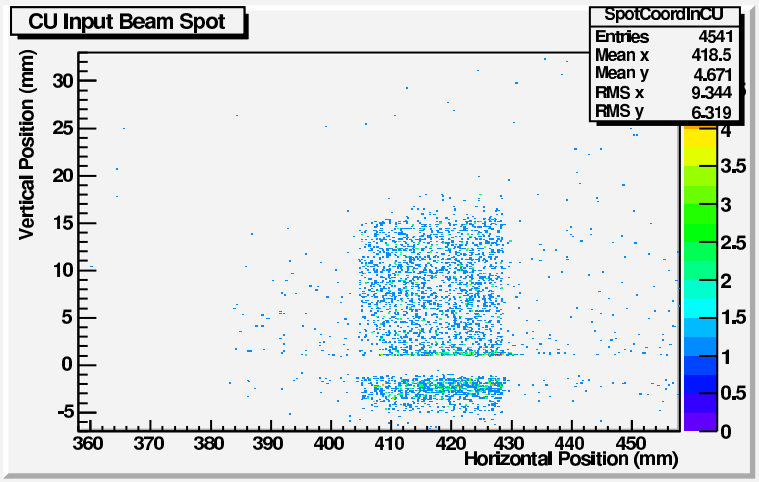

CU Input Beam Spot
SpotAngleInCU
Entries 4467
Mean x 0.005705
Mean y 0.006937
RMS x 0.002106
RMS y 0.001383
Vertical Angle (rad)
Horizontal Angle (rad)

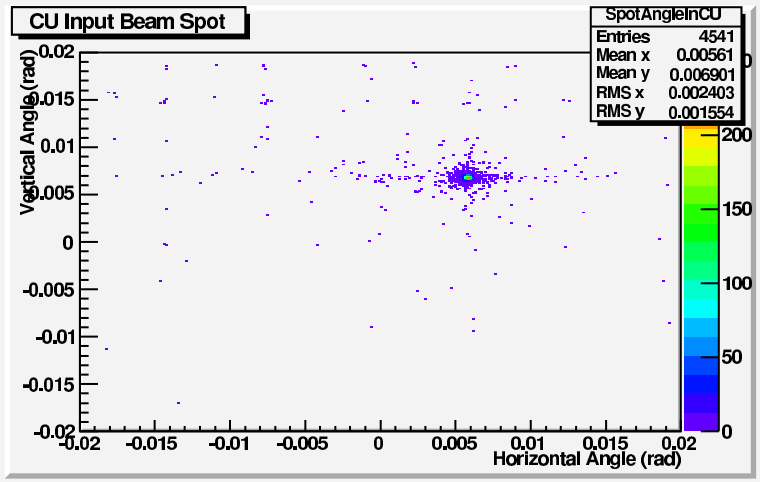

CU Input Horizontal coordinate
HorCoordInCU
Entries 4541
Mean 421.4
RMS 17.19
Position (mm)

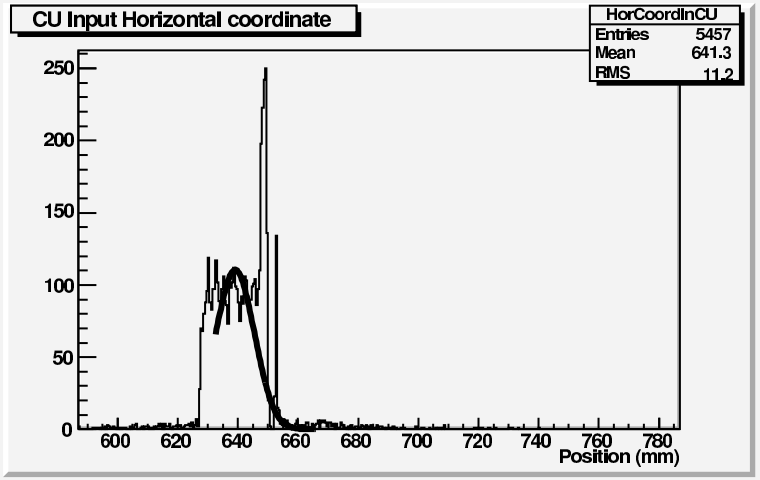

CU Input vertical coordinate
VertCoordInCU
Entries 4541
Mean 3.799
RMS 8.559
Position (mm)

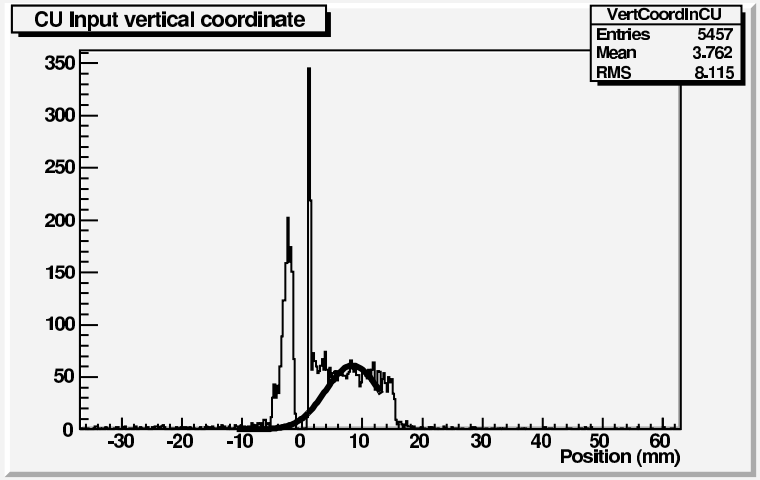

CU Input horizontal angle
HorAngleInCU
Entries 4541
Mean 0.006841
RMS 0.002084
Angle (rad)

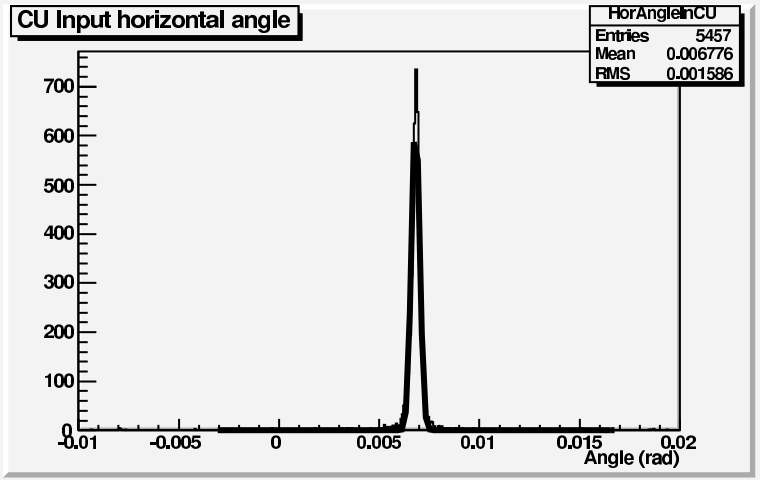

CU Input vertical angle
VertAngleInCU
Entries 4541
Mean 0.005494
RMS 0.002649
Angle (rad)

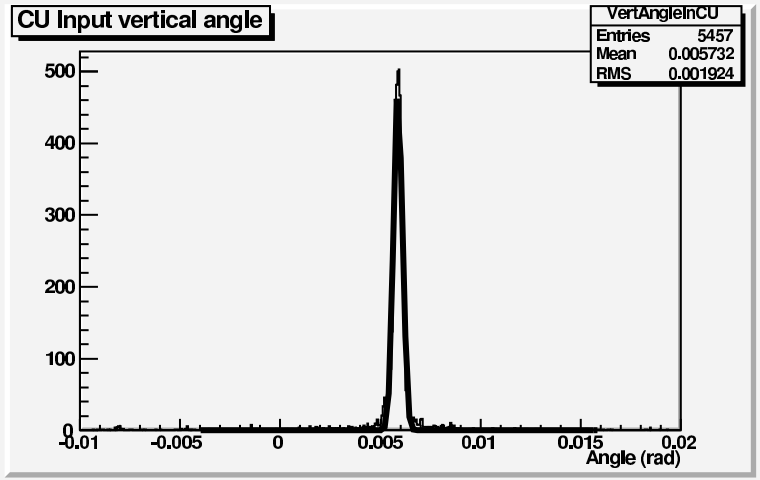

CU Input Beam Spot
SpotCoordInCU
Entries 4541
Mean x 418.5
Mean y 4.671
RMS x 9.344
RMS y 6.319
Vertical Position (mm)
Horizontal Position (mm)

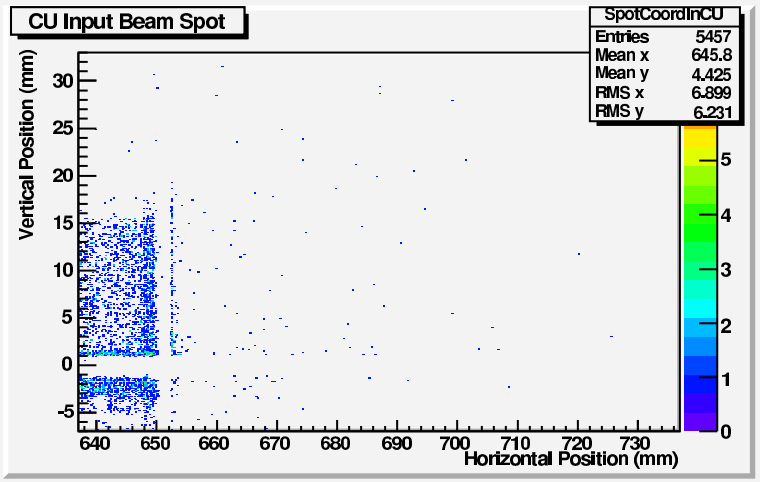

CU Input Beam Spot
SpotAngleInCU
Entries 4541
Mean x 0.00561
Mean y 0.006901
RMS x 0.002403
RMS y 0.001554
Vertical Angle (rad)
Horizontal Angle (rad)

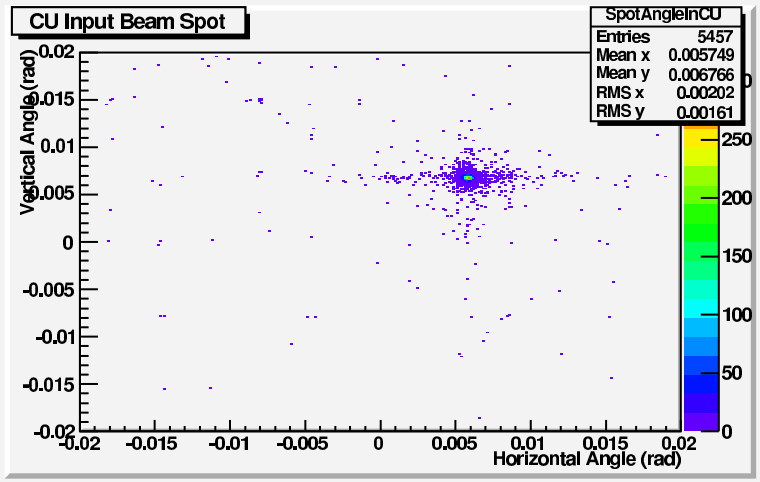

CU Input Horizontal coordinate
HorCoordInCU
Entries 5457
Mean 641.3
RMS 11.2
Position (mm)

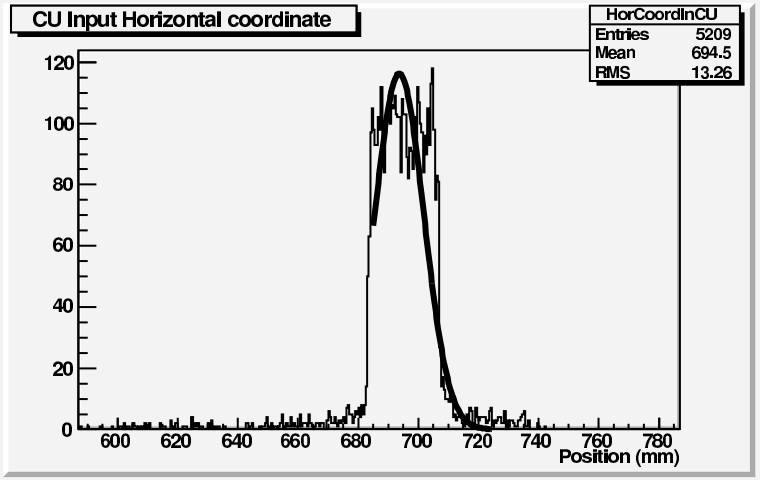

CU Input vertical coordinate
VertCoordInCU
Entries 5457
Mean 3.762
RMS 8.115
Position (mm)

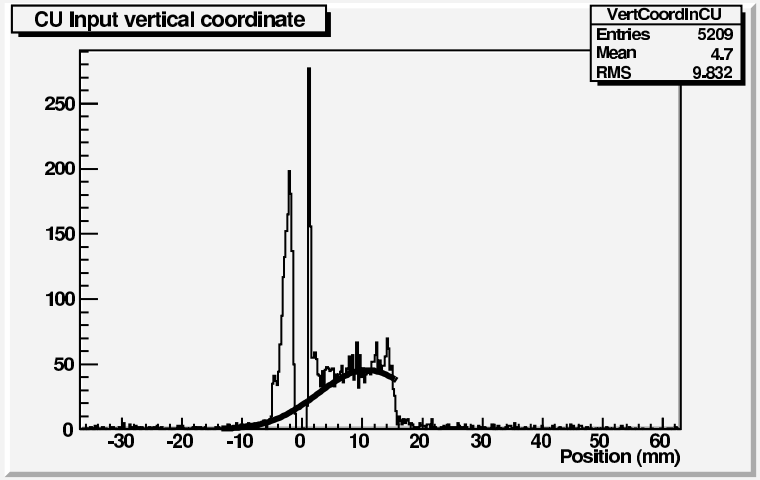

CU Input horizontal angle
HorAngleInCU
Entries 5457
Mean 0.006776
RMS 0.001586
Angle (rad)

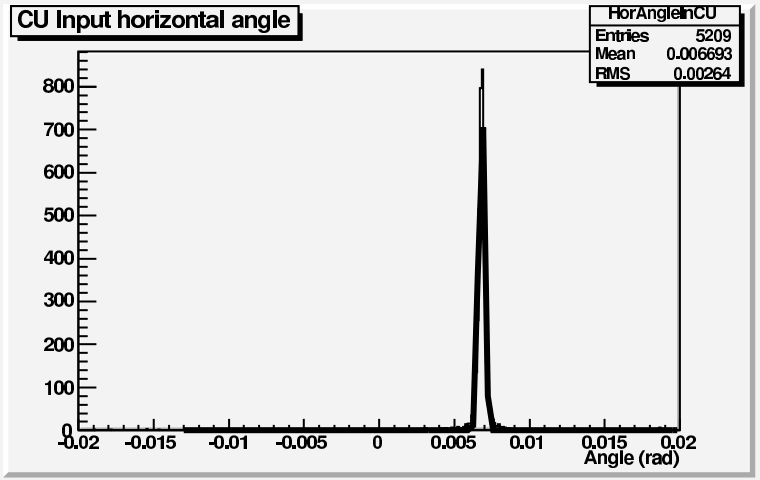

CU Input vertical angle
VertAngleInCU
Entries 5457
Mean 0.005732
RMS 0.001924
Angle (rad)

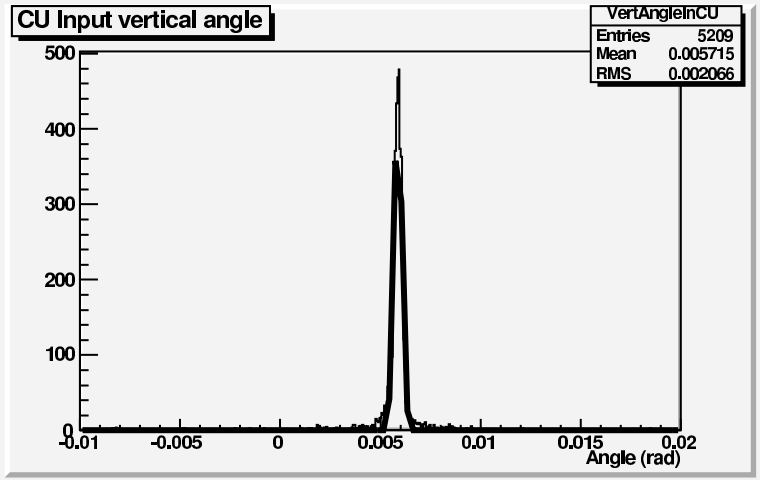

CU Input Beam Spot
SpotCoordInCU
Entries 5457
Mean x 645.8
Mean y 4.425
RMS x 6.899
RMS y 6.231
Vertical Position (mm)
Horizontal Position (mm)

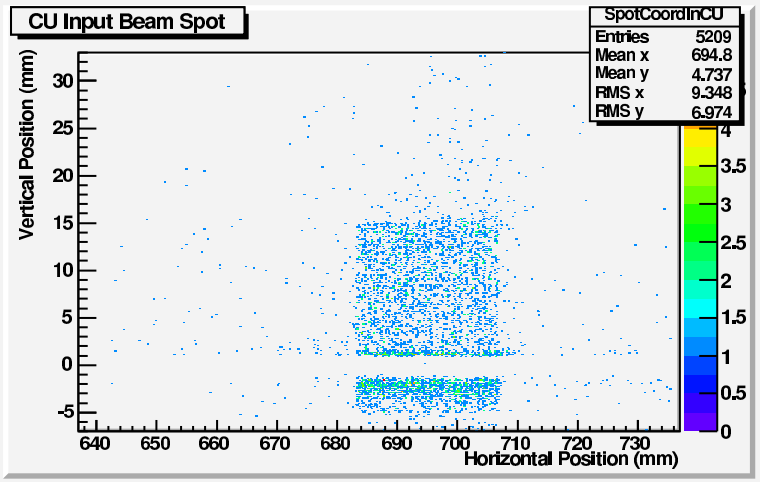

CU Input Beam Spot
SpotAngleInCU
Entries 5457
Mean x 0.005749
Mean y 0.006766
RMS x 0.00202
RMS y 0.00161
Vertical Angle (rad)
Horizontal Angle (rad)

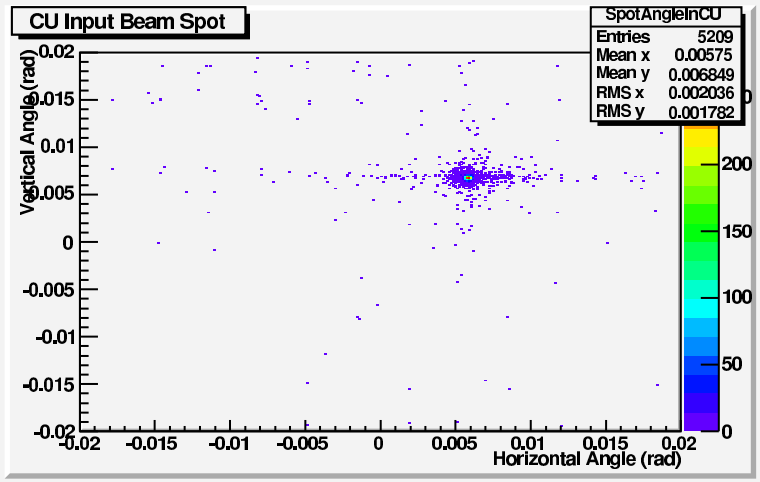

CU Input Horizontal coordinate
HorCoordInCU
Entries 5209
Mean 694.5
RMS 13.26
Position (mm)

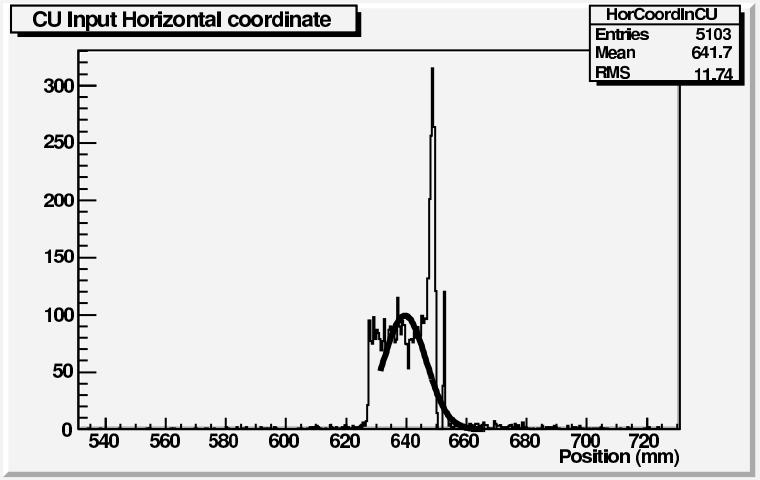

CU Input vertical coordinate
VertCoordInCU
Entries 5209
Mean 4.7
RMS 9.832
Position (mm)

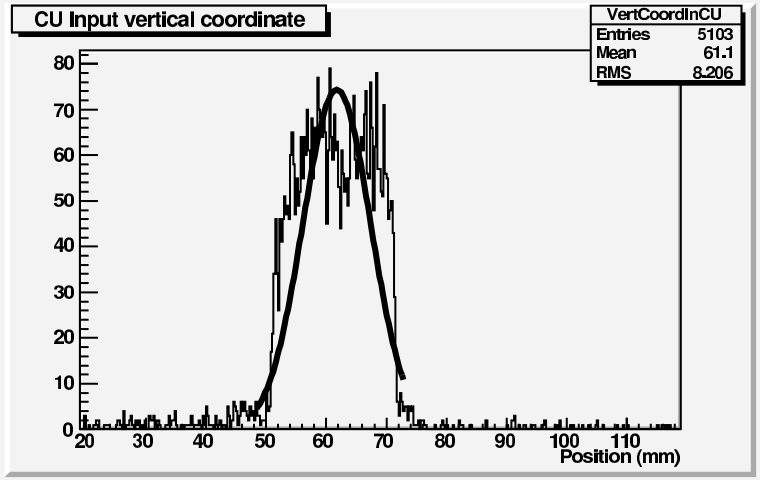

CU Input horizontal angle
HorAngleInCU
Entries 5209
Mean 0.006693
RMS 0.00264
Angle (rad)

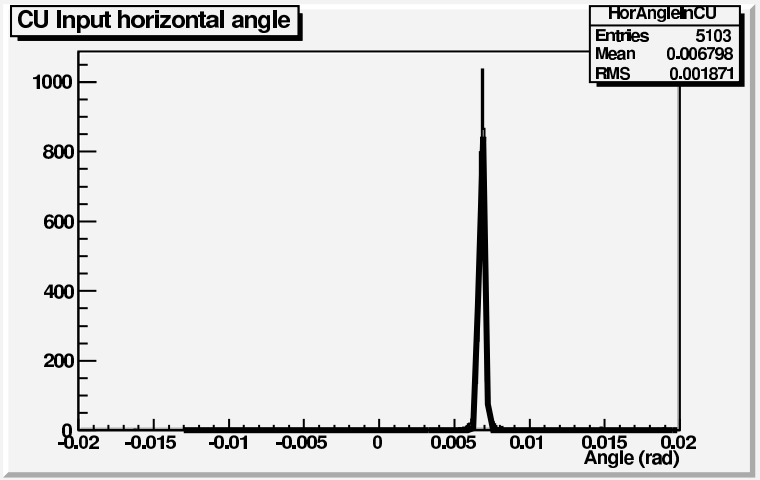

CU Input vertical angle
VertAngleInCU
Entries 5209
Mean 0.005715
RMS 0.002066
Angle (rad)

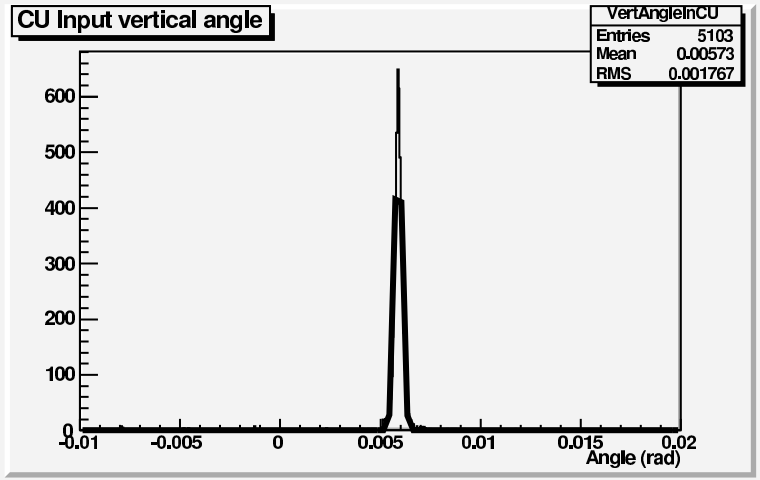

CU Input Beam Spot
SpotCoordInCU
Entries 5209
Mean x 694.8
Mean y 4.737
RMS x 9.348
RMS y 6.974
Vertical Position (mm)
Horizontal Position (mm)

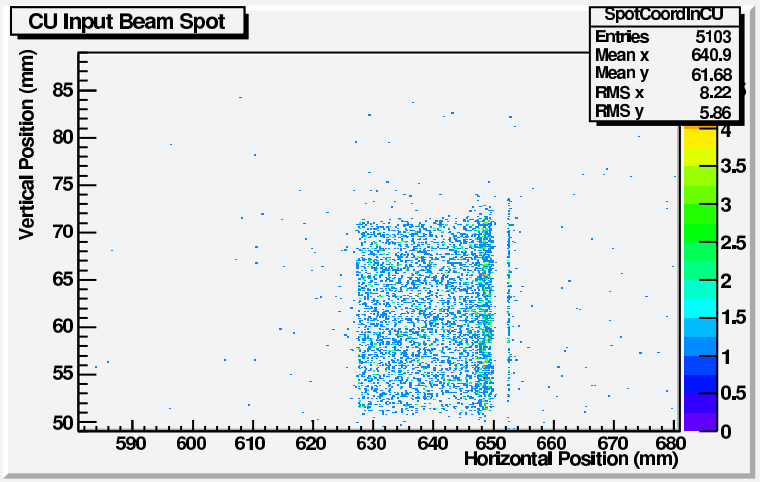

CU Input Beam Spot
SpotAngleInCU
Entries 5209
Mean x 0.00575
Mean y 0.006849
RMS x 0.002036
RMS y 0.001782
Vertical Angle (rad)
Horizontal Angle (rad)

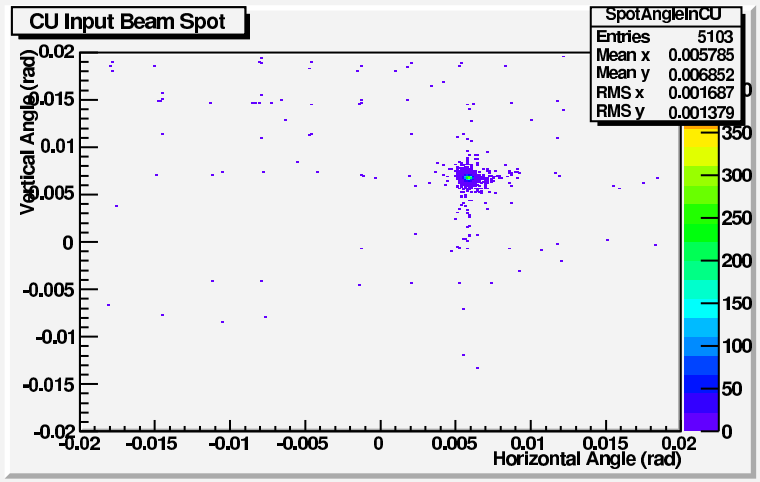

CU Input Horizontal coordinate
HorCoordInCU
Entries 5103
Mean 641.7
RMS 11.74
Position (mm)

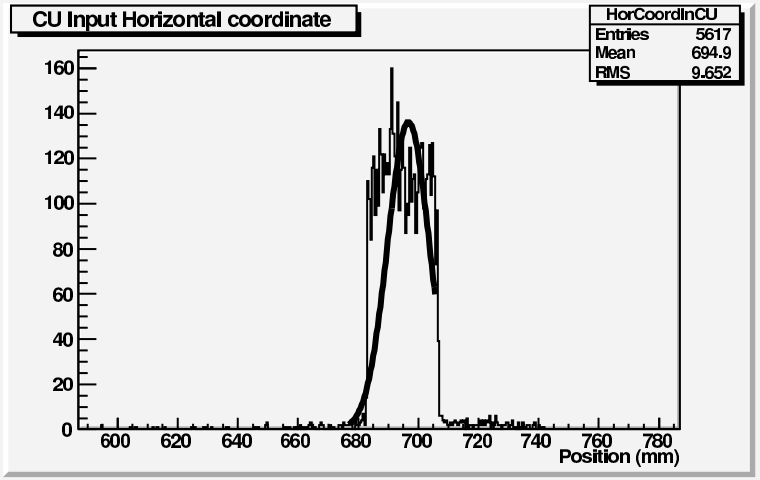

CU Input vertical coordinate
VertCoordInCU
Entries 5103
Mean 61.1
RMS 8.206
Position (mm)

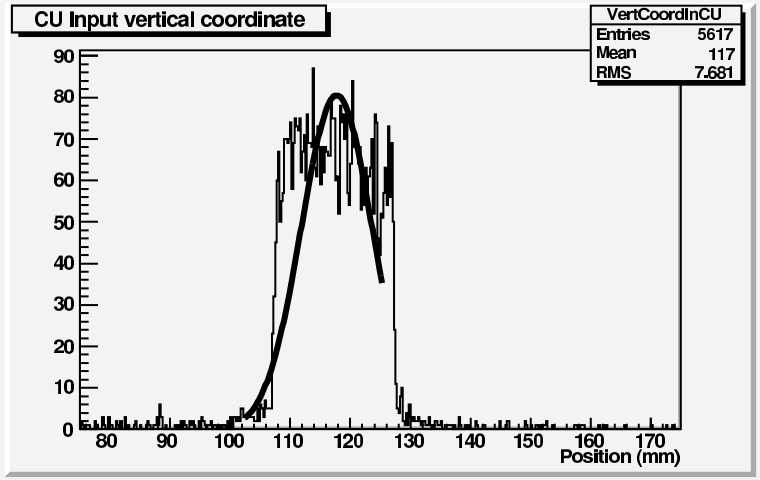

CU Input horizontal angle
HorAngleInCU
Entries 5103
Mean 0.006798
RMS 0.001871
Angle (rad)

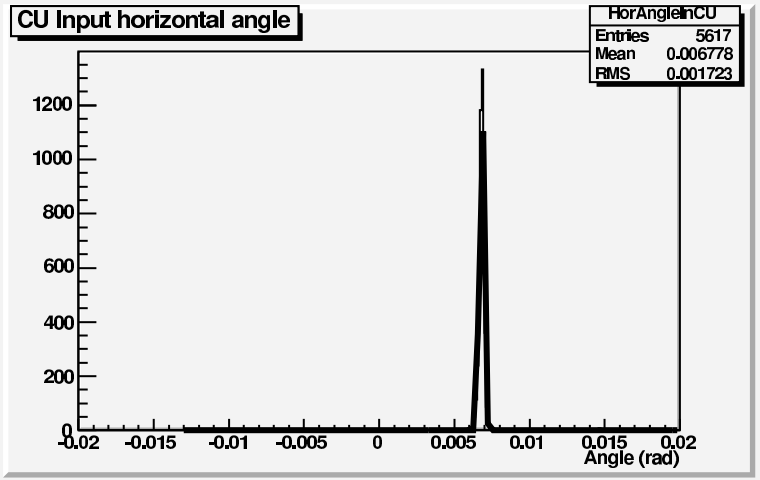

CU Input vertical angle
VertAngleInCU
Entries 5103
Mean 0.00573
RMS 0.001767
Angle (rad)

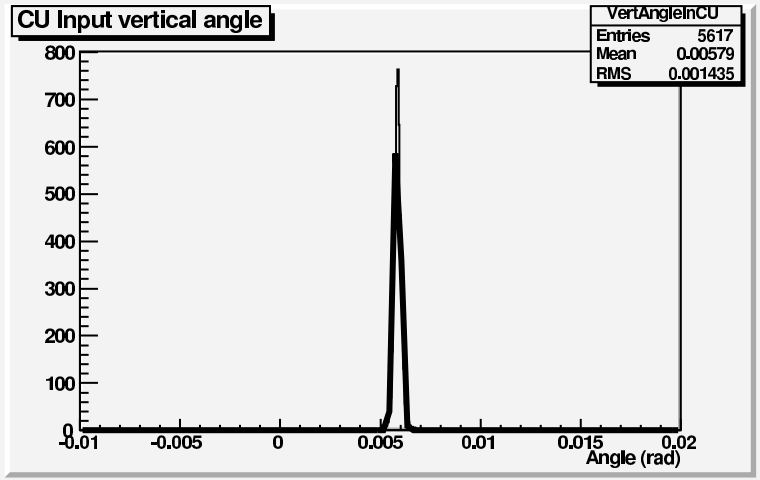

CU Input Beam Spot
SpotCoordInCU
Entries 5103
Mean x 640.9
Mean y 61.68
RMS x 8.22
RMS y 5.86
Vertical Position (mm)
Horizontal Position (mm)

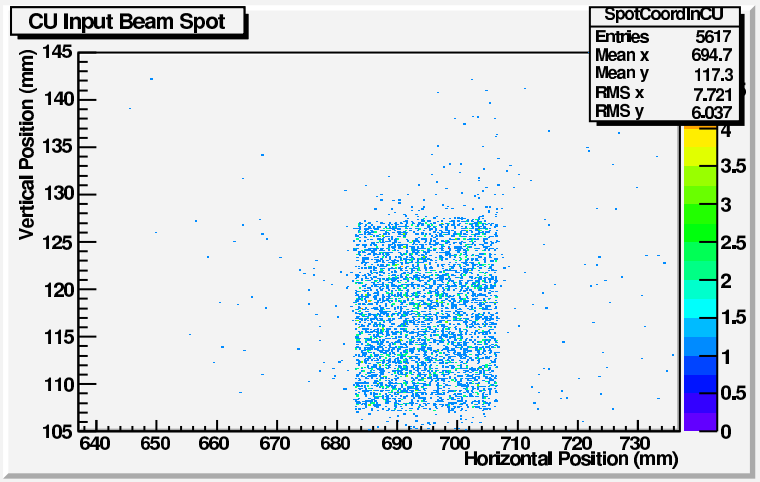

CU Input Beam Spot
SpotAngleInCU
Entries 5103
Mean x 0.005785
Mean y 0.006852
RMS x 0.001687
RMS y 0.001379
Vertical Angle (rad)
Horizontal Angle (rad)

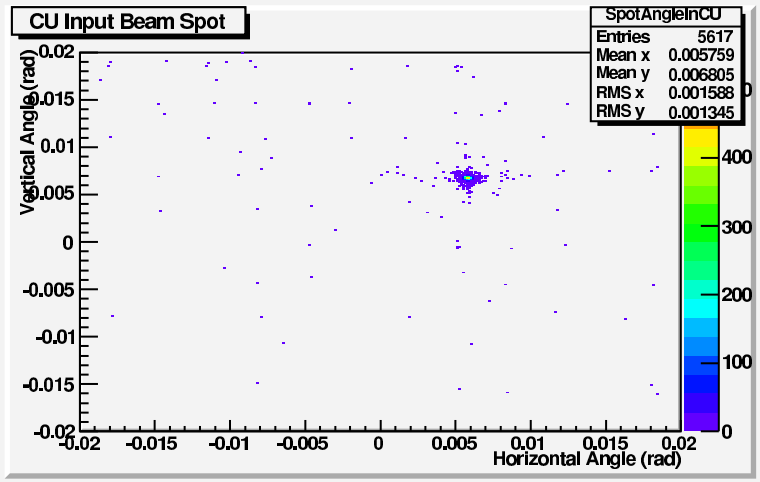

CU Input Horizontal coordinate
HorCoordInCU
Entries 5617
Mean 694.9
RMS 9.652
Position (mm)

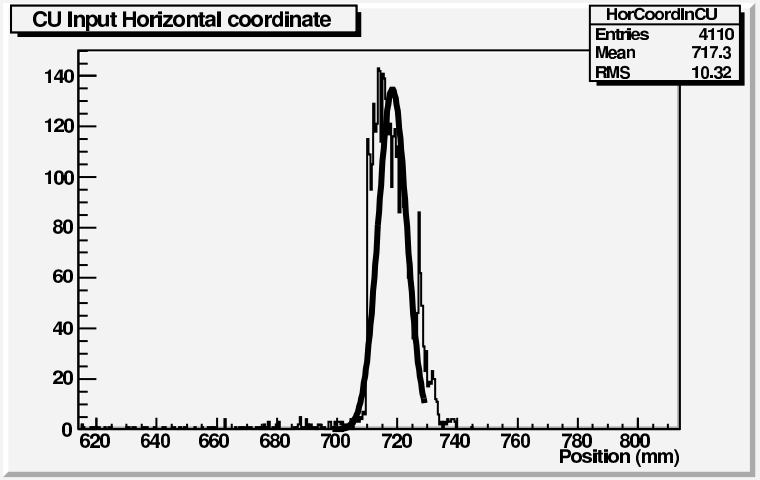

CU Input vertical coordinate
VertCoordInCU
Entries 5617
Mean 117
RMS 7.681
Position (mm)

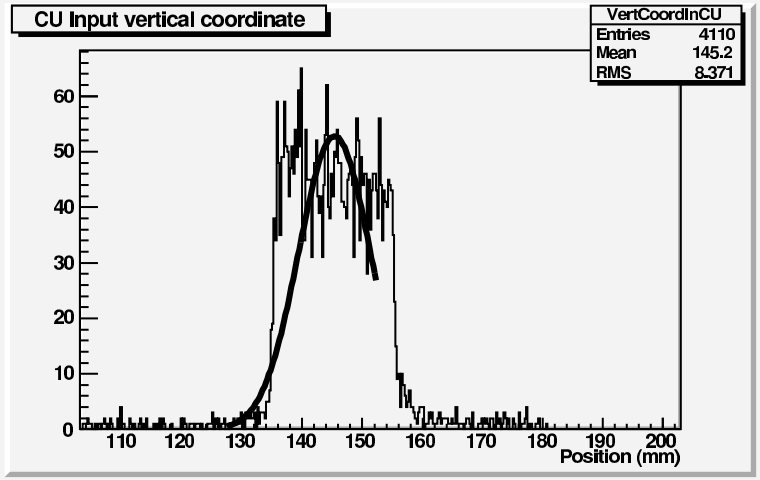

CU Input horizontal angle
HorAngleInCU
Entries 5617
Mean 0.006778
RMS 0.001723
Angle (rad)

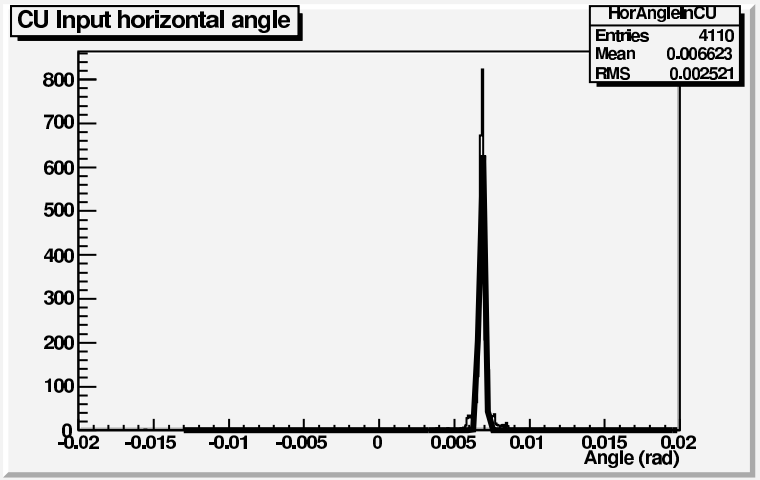

CU Input vertical angle
VertAngleInCU
Entries 5617
Mean 0.00579
RMS 0.001435
Angle (rad)

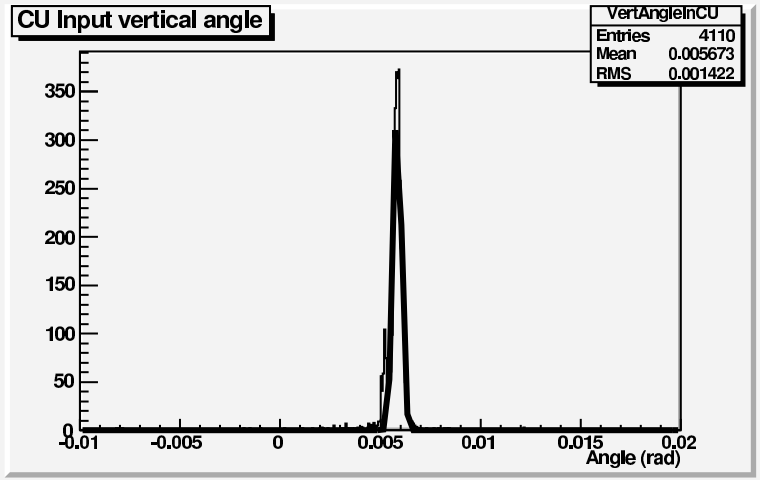

CU Input Beam Spot
SpotCoordInCU
Entries 5617
Mean x 694.7
Mean y 117.3
RMS x 7.721
RMS y 6.037
Vertical Position (mm)
Horizontal Position (mm)

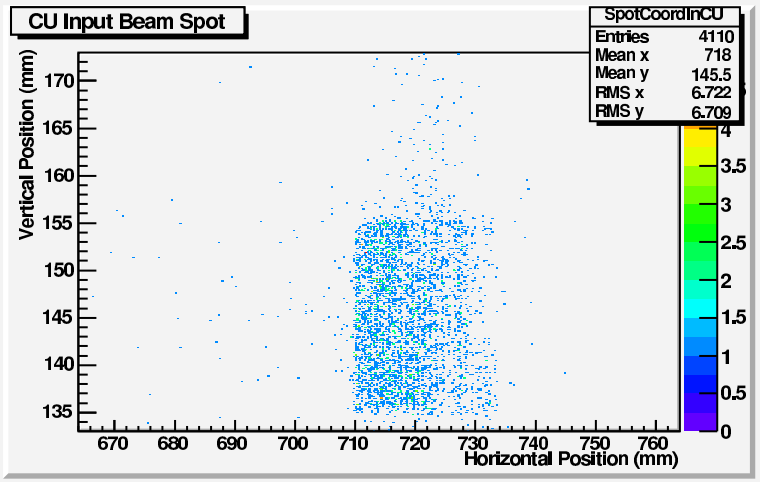

CU Input Beam Spot
SpotAngleInCU
Entries 5617
Mean x 0.005759
Mean y 0.006805
RMS x 0.001588
RMS y 0.001345
Vertical Angle (rad)
Horizontal Angle (rad)

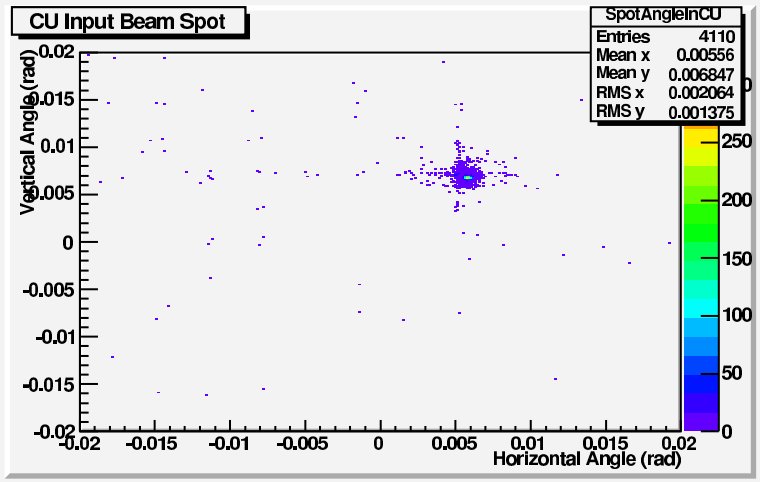

CU Input Horizontal coordinate
HorCoordInCU
Entries 4110
Mean 717.3
RMS 10.32
Position (mm)

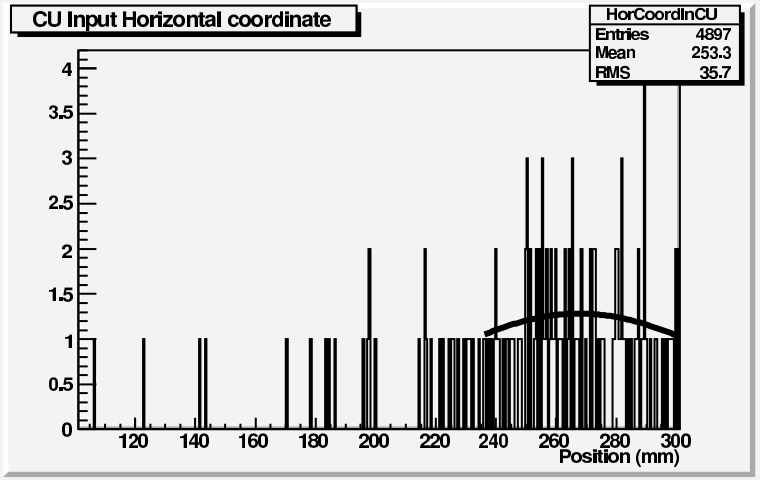

CU Input vertical coordinate
VertCoordInCU
Entries 4110
Mean 145.2
RMS 8.371
Position (mm)

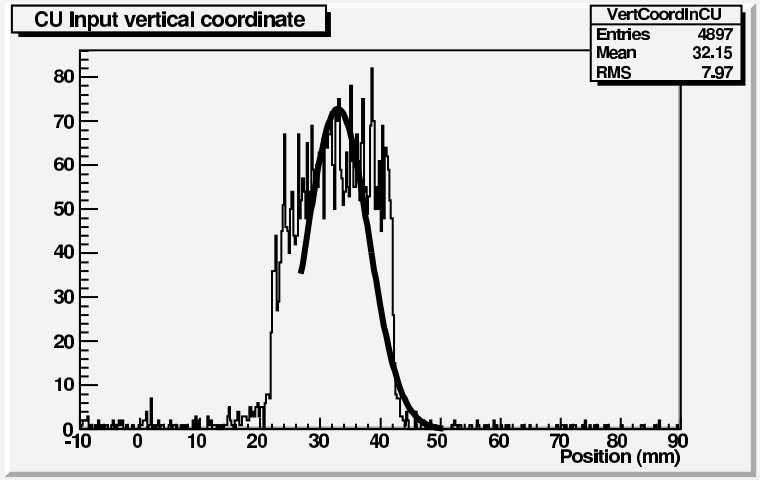

CU Input horizontal angle
HorAngleInCU
Entries 4110
Mean 0.006623
RMS 0.002521
Angle (rad)

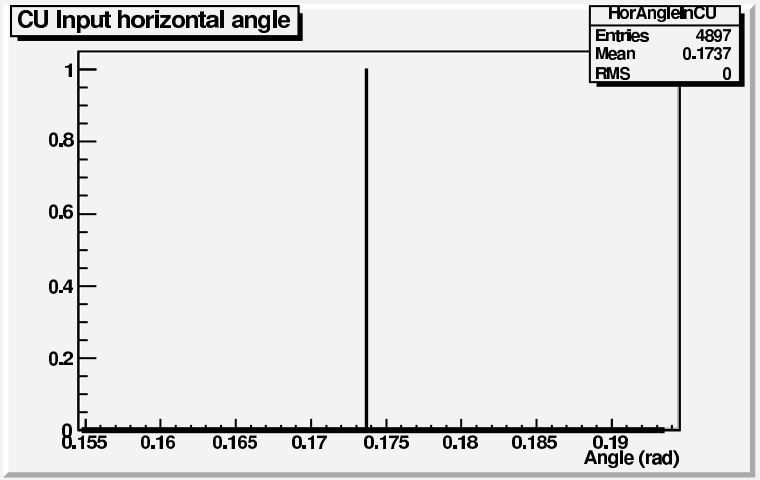

CU Input vertical angle
VertAngleInCU
Entries 4110
Mean 0.005673
RMS 0.001422
Angle (rad)

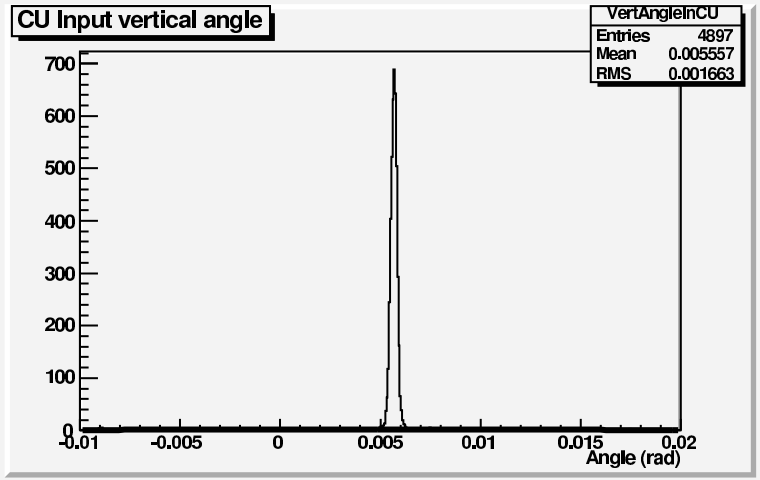

CU Input Beam Spot
SpotCoordInCU
Entries 4110
Mean x 718
Mean y 145.5
RMS x 6.722
RMS y 6.709
Vertical Position (mm)
Horizontal Position (mm)

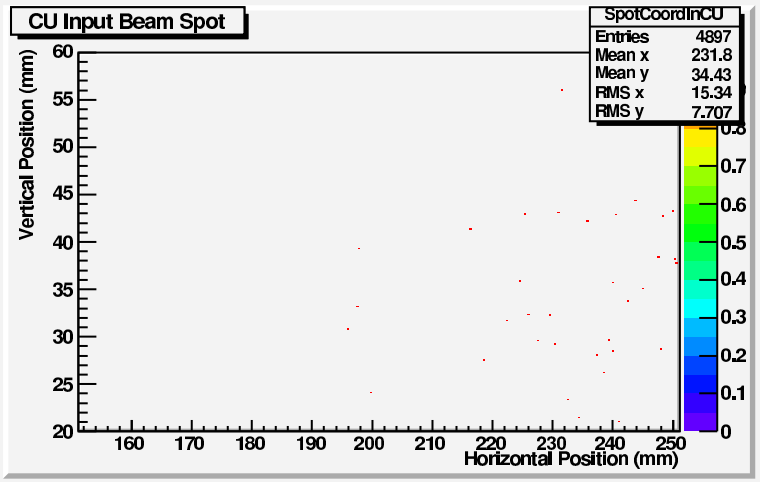

CU Input Beam Spot
SpotAngleInCU
Entries 4110
Mean x 0.00556
Mean y 0.006847
RMS x 0.002064
RMS y 0.001375
Vertical Angle (rad)
Horizontal Angle (rad)

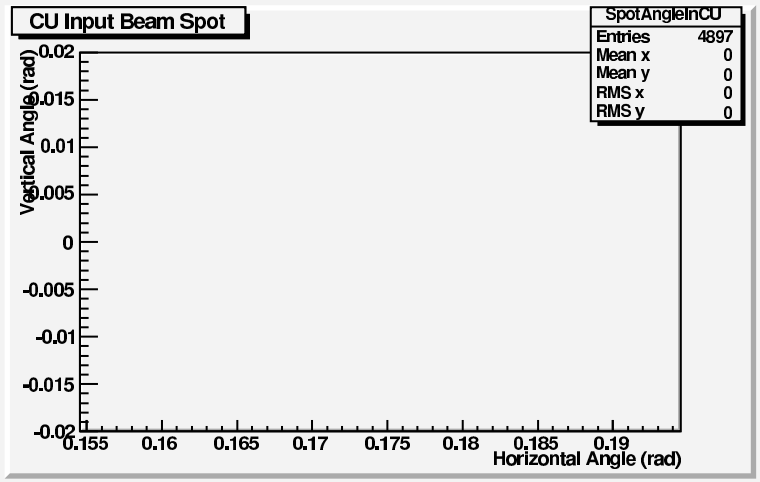

CU Input Horizontal coordinate
HorCoordInCU
Entries 4897
Mean 253.3
RMS 35.7
Position (mm)

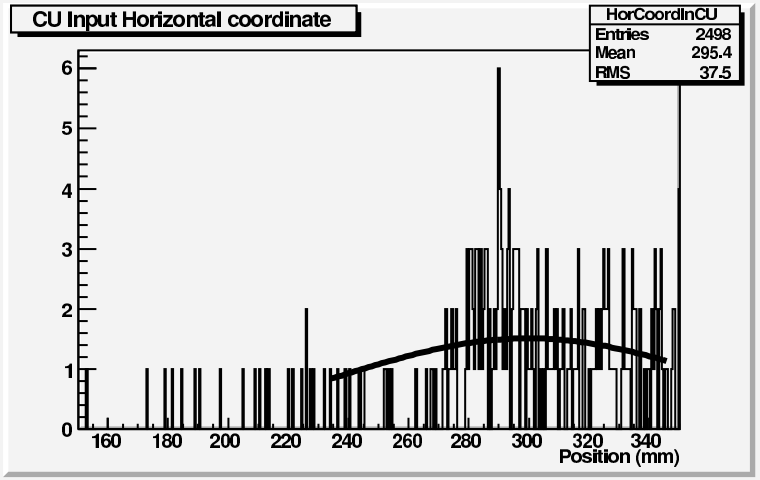

CU Input vertical coordinate
VertCoordInCU
Entries 4897
Mean 32.15
RMS 7.97
Position (mm)

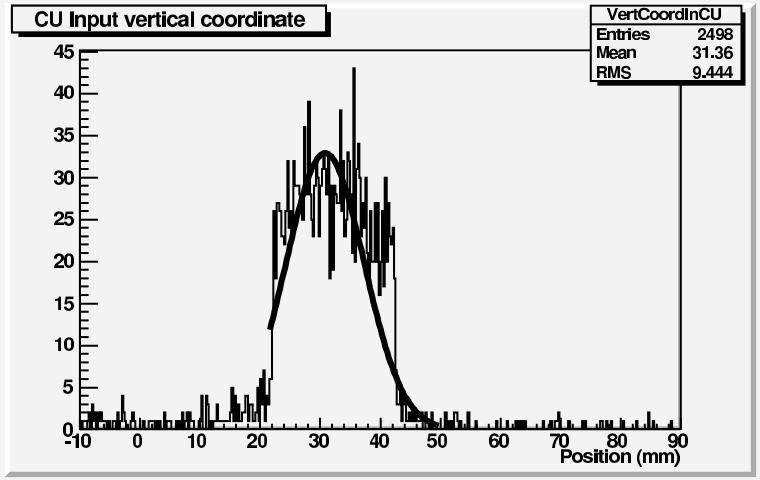

CU Input horizontal angle
HorAngleInCU
Entries 4897
Mean 0.1737
RMS 0
Angle (rad)

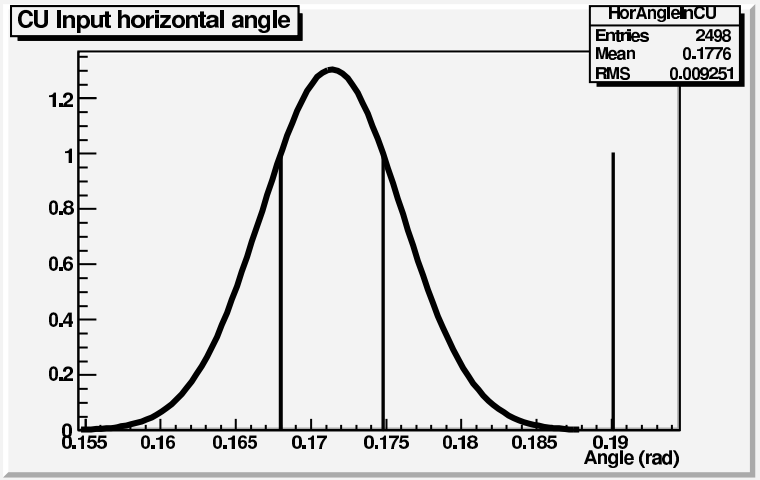

CU Input vertical angle
VertAngleInCU
Entries 4897
Mean 0.005557
RMS 0.001663
Angle (rad)

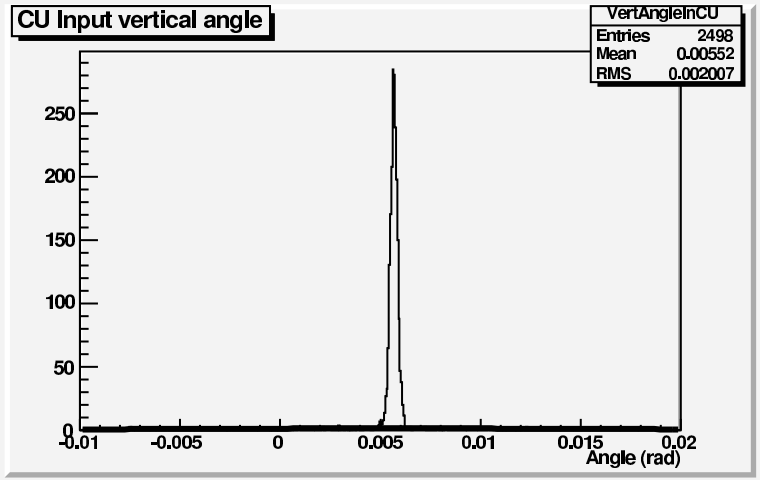

CU Input Beam Spot
SpotCoordInCU
Entries 4897
Mean x 231.8
Mean y 34.43
RMS x 15.34
RMS y 7.707
Vertical Position (mm)
Horizontal Position (mm)

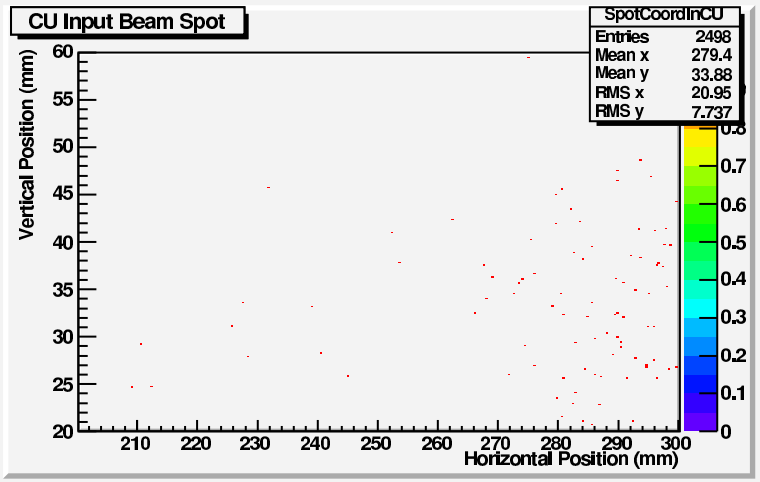

CU Input Beam Spot
SpotAngleInCU
Entries 4897
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

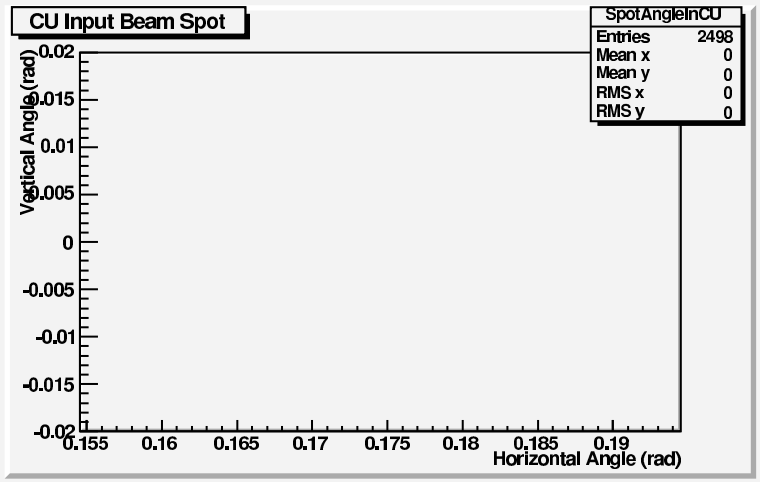

CU Input Horizontal coordinate
HorCoordInCU
Entries 2498
Mean 295.4
RMS 37.5
Position (mm)

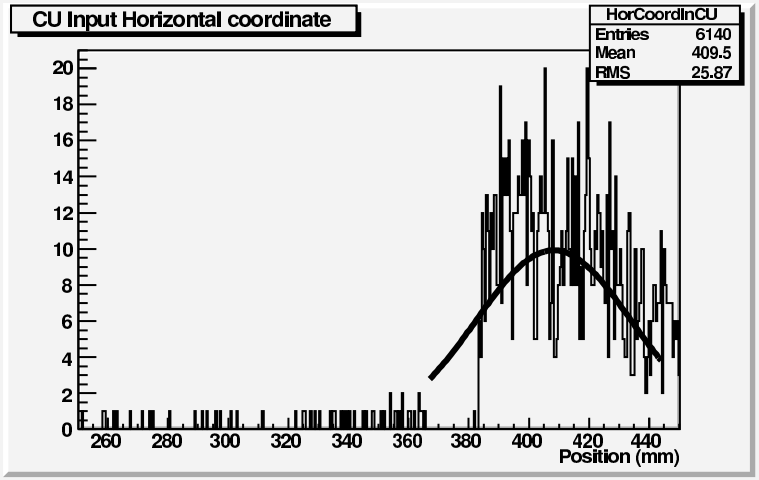

CU Input vertical coordinate
VertCoordInCU
Entries 2498
Mean 31.36
RMS 9.444
Position (mm)

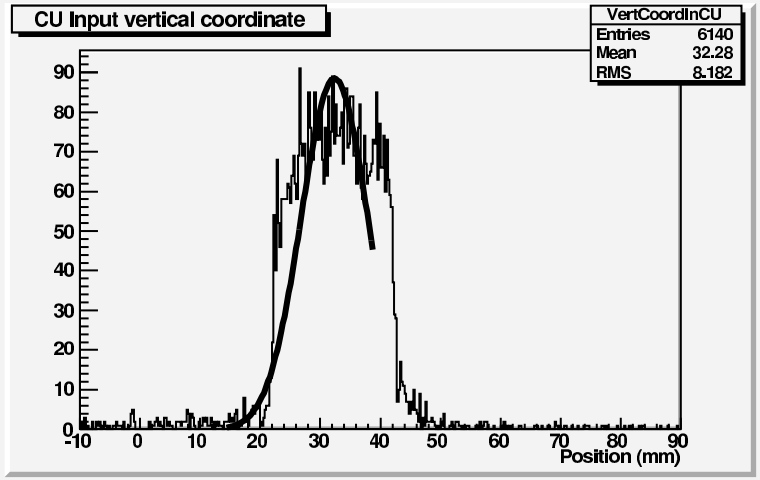

CU Input horizontal angle
HorAngleInCU
Entries 2498
Mean 0.1776
RMS 0.009251
Angle (rad)

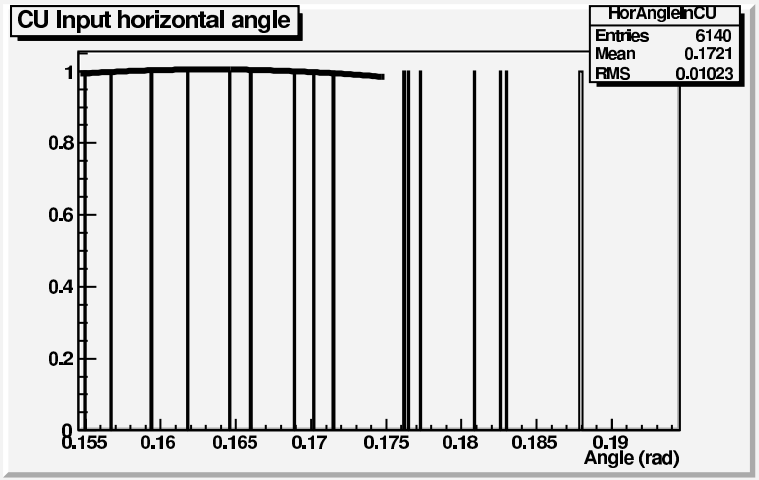

CU Input vertical angle
VertAngleInCU
Entries 2498
Mean 0.00552
RMS 0.002007
Angle (rad)

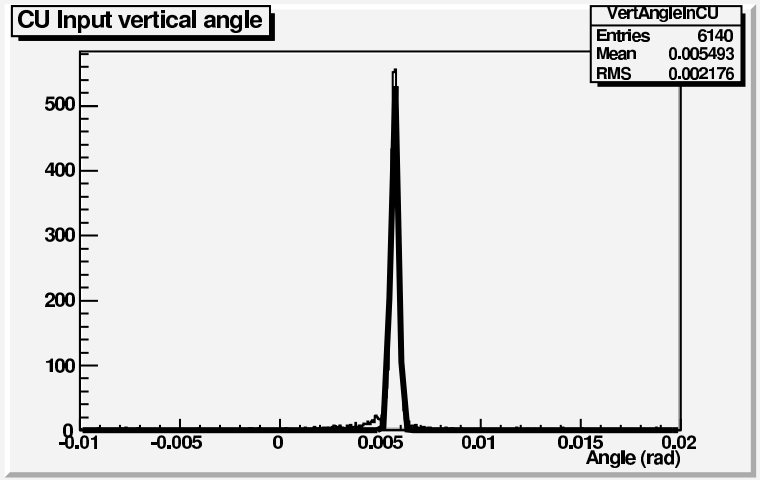

CU Input Beam Spot
SpotCoordInCU
Entries 2498
Mean x 279.4
Mean y 33.88
RMS x 20.95
RMS y 7.737
Vertical Position (mm)
Horizontal Position (mm)

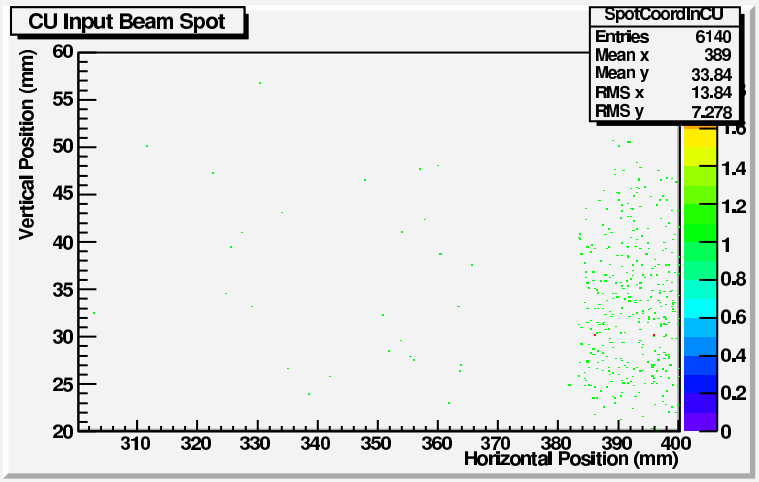

CU Input Beam Spot
SpotAngleInCU
Entries 2498
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

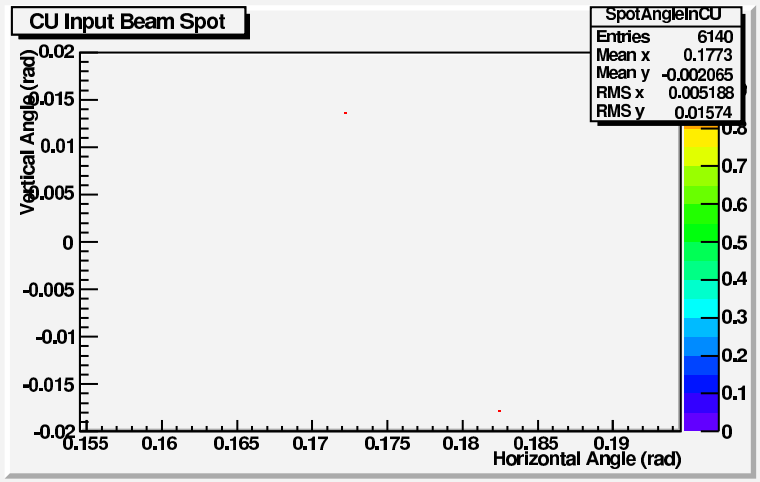

CU Input Horizontal coordinate
HorCoordInCU
Entries 6140
Mean 409.5
RMS 25.87
Position (mm)

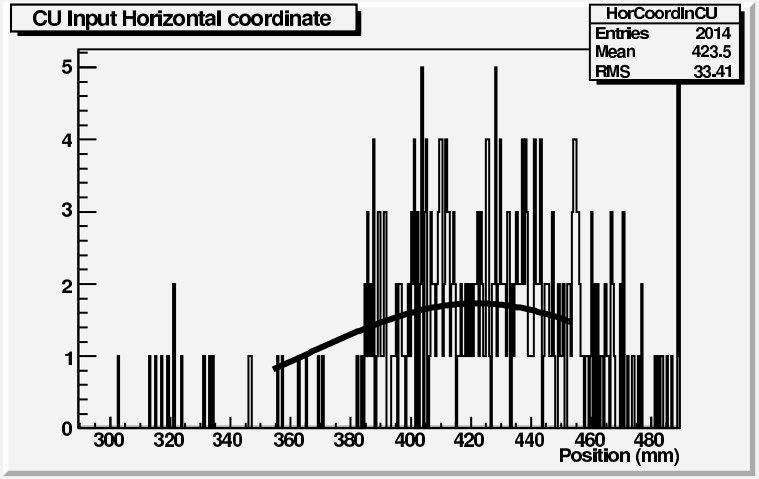

CU Input vertical coordinate
VertCoordInCU
Entries 6140
Mean 32.28
RMS 8.182
Position (mm)

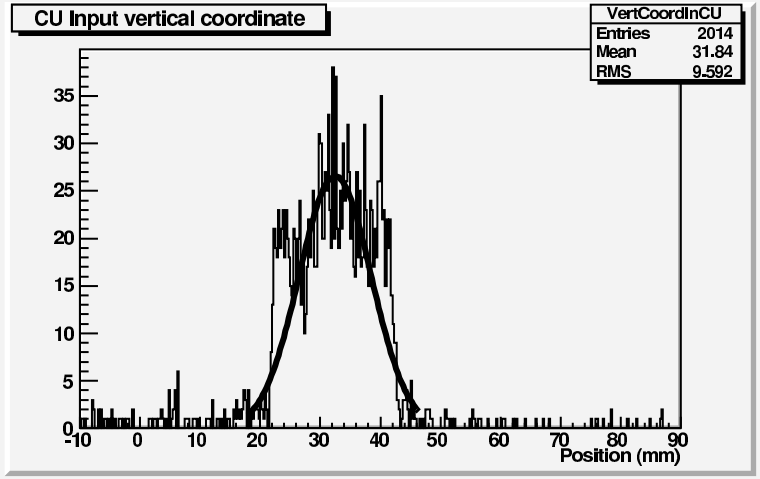

CU Input horizontal angle
HorAngleInCU
Entries 6140
Mean 0.1721
RMS 0.01023
Angle (rad)

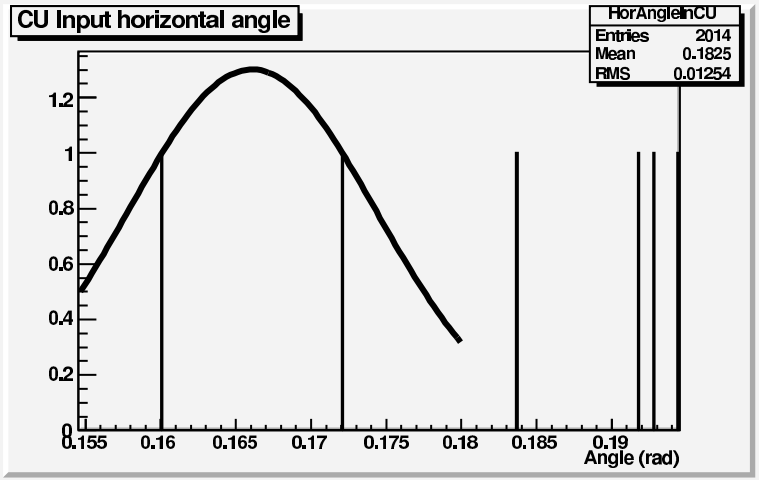

CU Input vertical angle
VertAngleInCU
Entries 6140
Mean 0.005493
RMS 0.002176
Angle (rad)

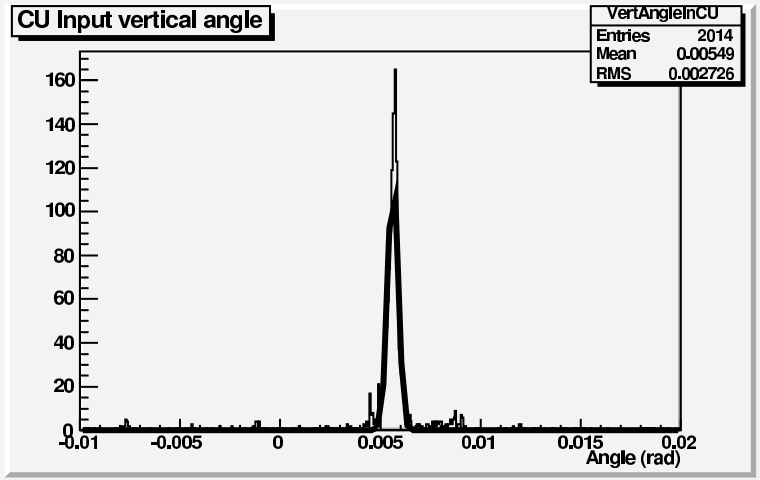

CU Input Beam Spot
SpotCoordInCU
Entries 6140
Mean x 389
Mean y 33.84
RMS x 13.84
RMS y 7.278
Vertical Position (mm)
Horizontal Position (mm)

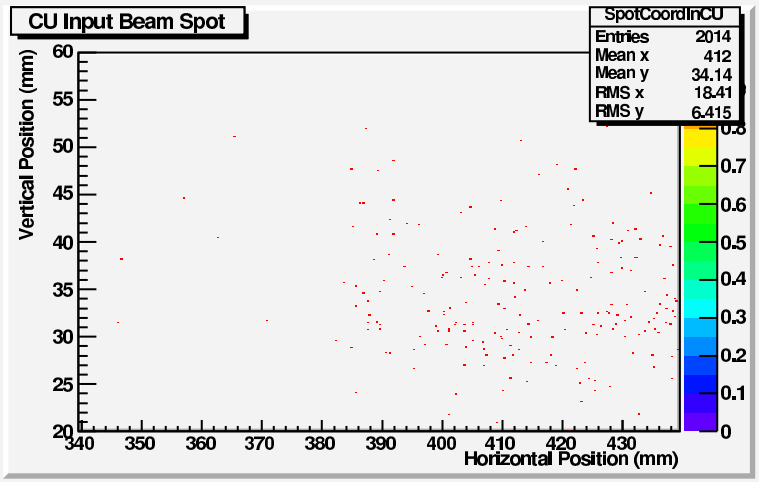

CU Input Beam Spot
SpotAngleInCU
Entries 6140
Mean x 0.1773
Mean y -0.002065
RMS x 0.005188
RMS y 0.01574
Vertical Angle (rad)
Horizontal Angle (rad)

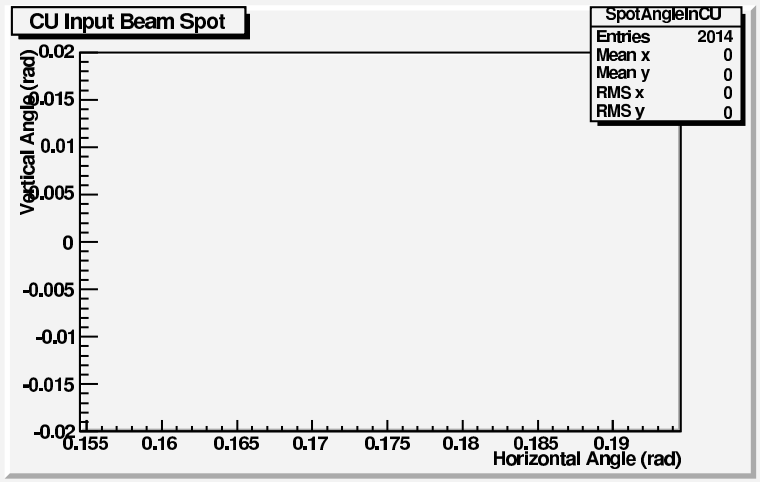

CU Input Horizontal coordinate
HorCoordInCU
Entries 2014
Mean 423.5
RMS 33.41
Position (mm)

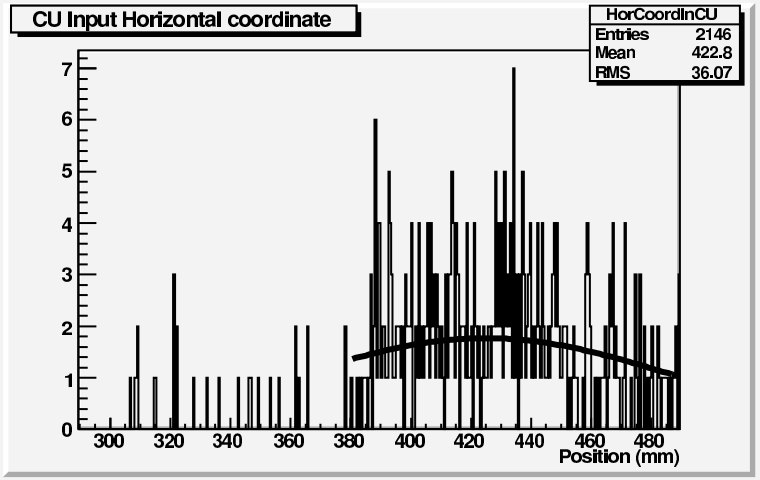

CU Input vertical coordinate
VertCoordInCU
Entries 2014
Mean 31.84
RMS 9.592
Position (mm)

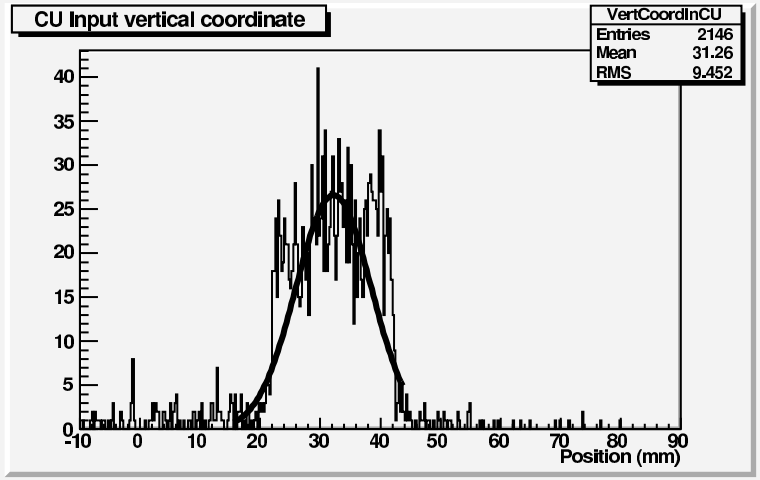

CU Input horizontal angle
HorAngleInCU
Entries 2014
Mean 0.1825
RMS 0.01254
Angle (rad)

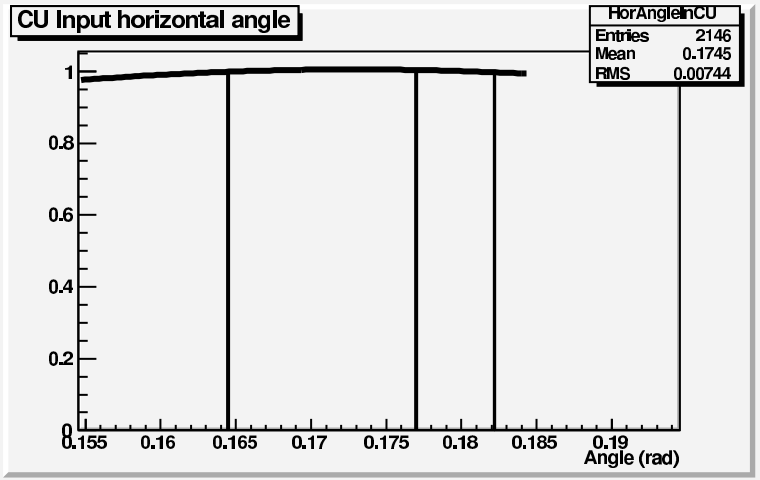

CU Input vertical angle
VertAngleInCU
Entries 2014
Mean 0.00549
RMS 0.002726
Angle (rad)

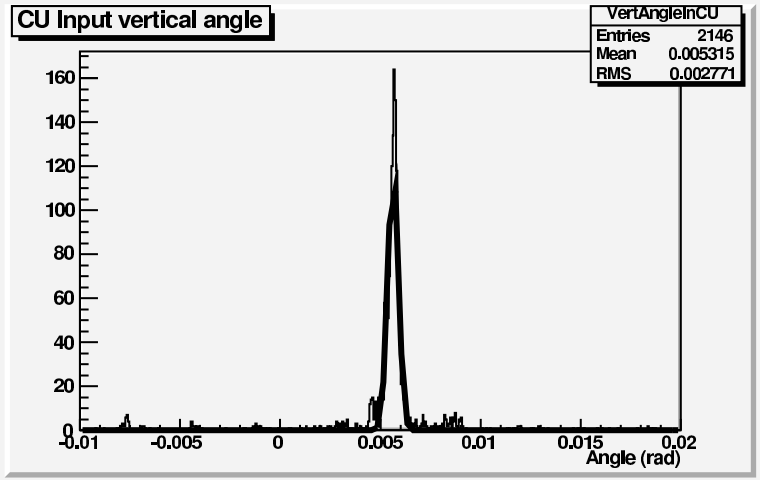

CU Input Beam Spot
SpotCoordInCU
Entries 2014
Mean x 412
Mean y 34.14
RMS x 18.41
RMS y 6.415
Vertical Position (mm)
Horizontal Position (mm)

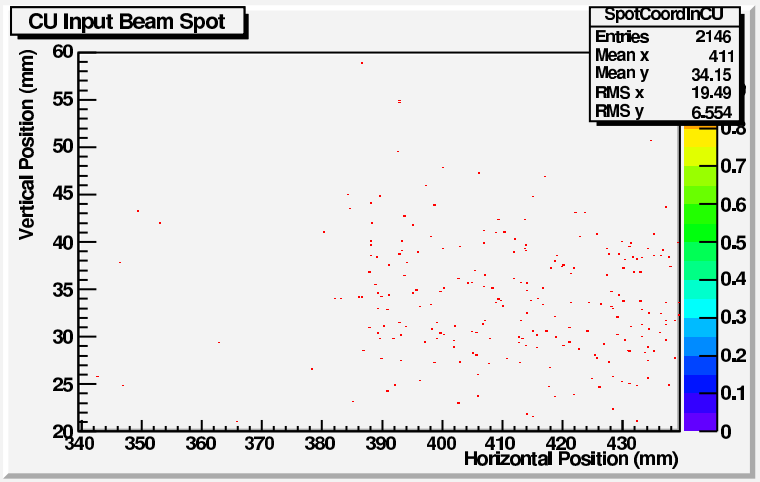

CU Input Beam Spot
SpotAngleInCU
Entries 2014
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

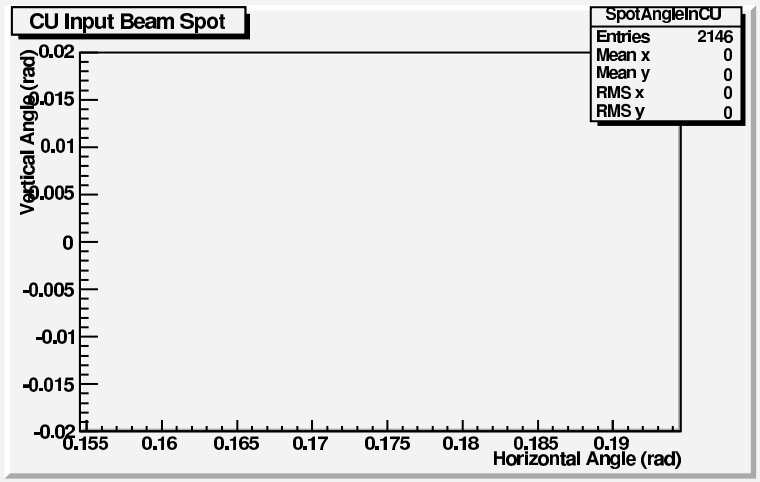

CU Input Horizontal coordinate
HorCoordInCU
Entries 2146
Mean 422.8
RMS 36.07
Position (mm)

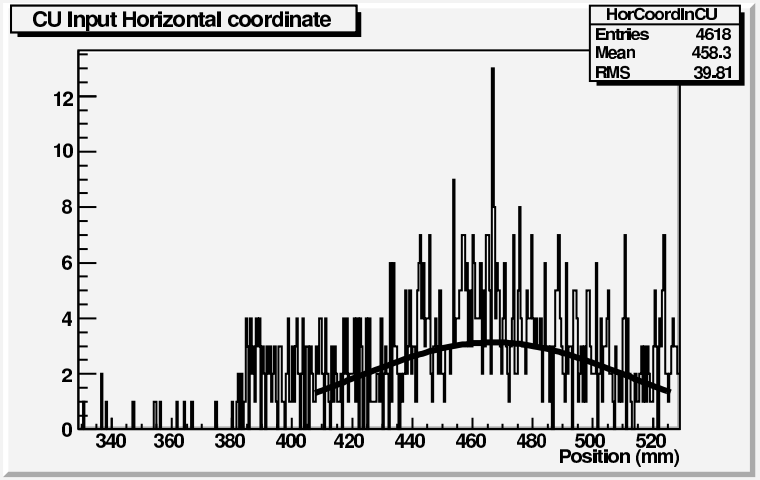

CU Input vertical coordinate
VertCoordInCU
Entries 2146
Mean 31.26
RMS 9.452
Position (mm)

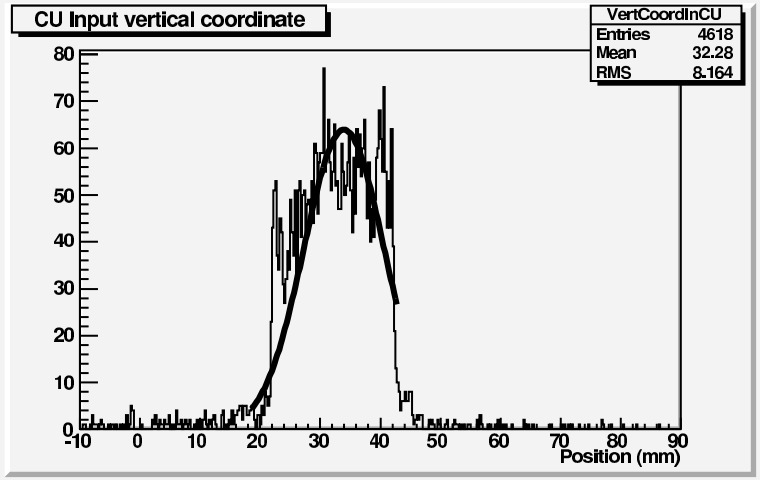

CU Input horizontal angle
HorAngleInCU
Entries 2146
Mean 0.1745
RMS 0.00744
Angle (rad)

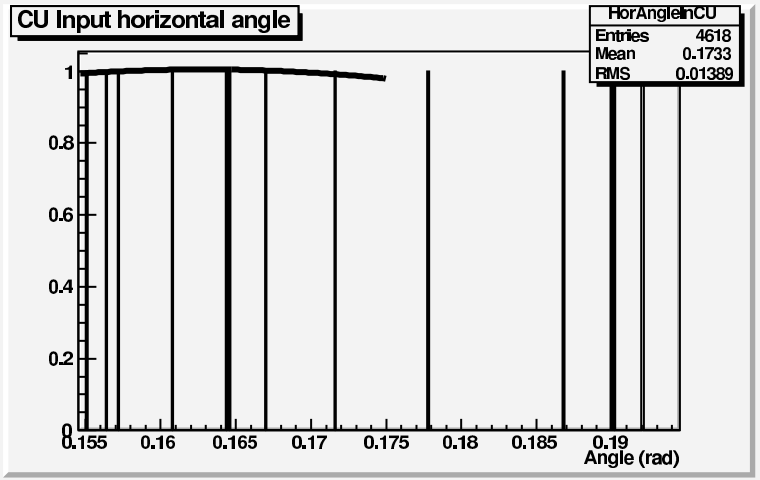

CU Input vertical angle
VertAngleInCU
Entries 2146
Mean 0.005315
RMS 0.002771
Angle (rad)

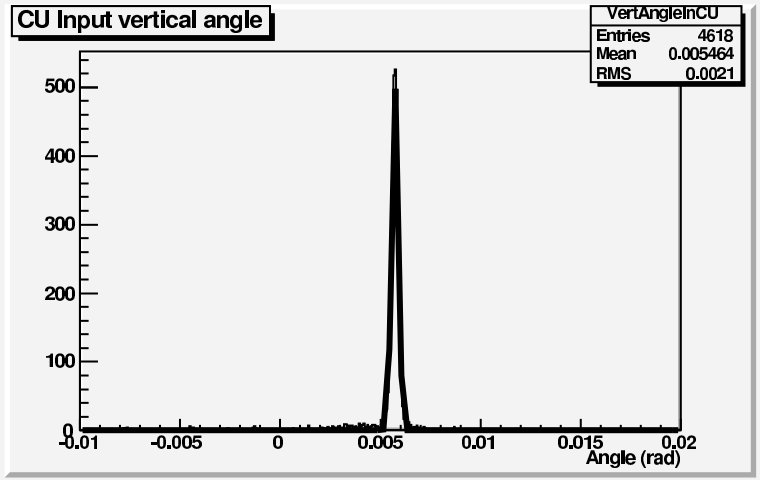

CU Input Beam Spot
SpotCoordInCU
Entries 2146
Mean x 411
Mean y 34.15
RMS x 19.49
RMS y 6.554
Vertical Position (mm)
Horizontal Position (mm)

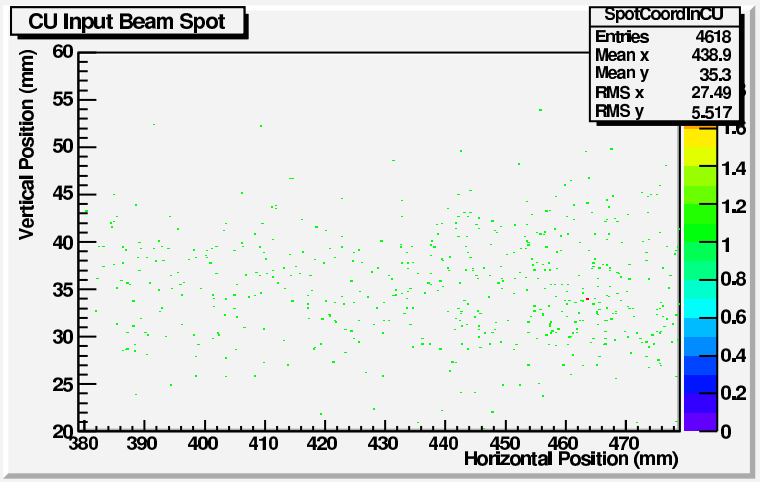

CU Input Beam Spot
SpotAngleInCU
Entries 2146
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

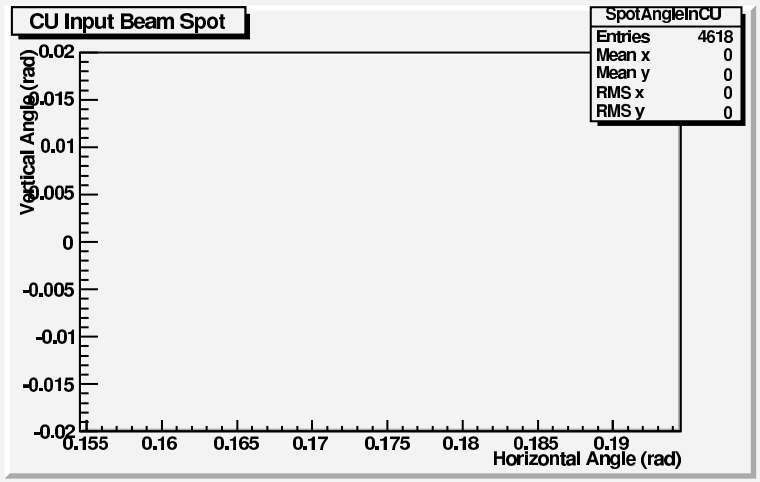

CU Input Horizontal coordinate
HorCoordInCU
Entries 4618
Mean 458.3
RMS 39.81
Position (mm)

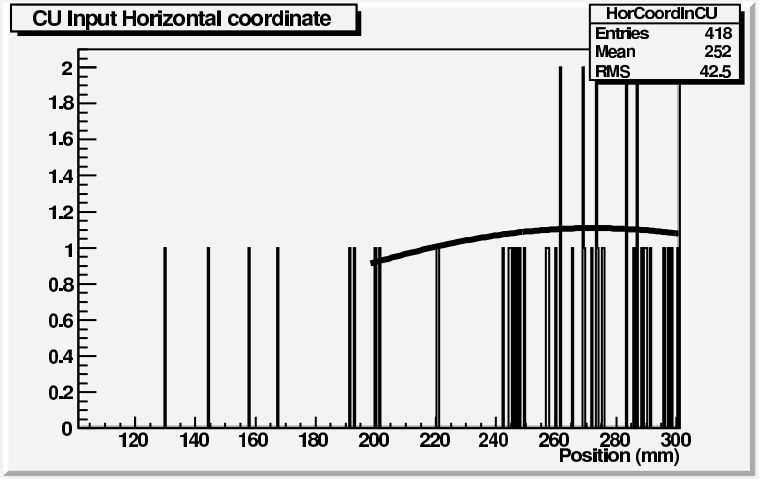

CU Input vertical coordinate
VertCoordInCU
Entries 4618
Mean 32.28
RMS 8.164
Position (mm)

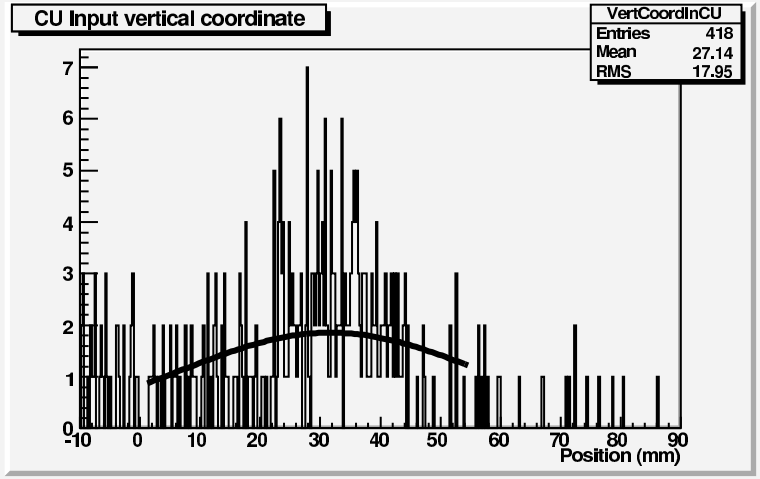

CU Input horizontal angle
HorAngleInCU
Entries 4618
Mean 0.1733
RMS 0.01389
Angle (rad)

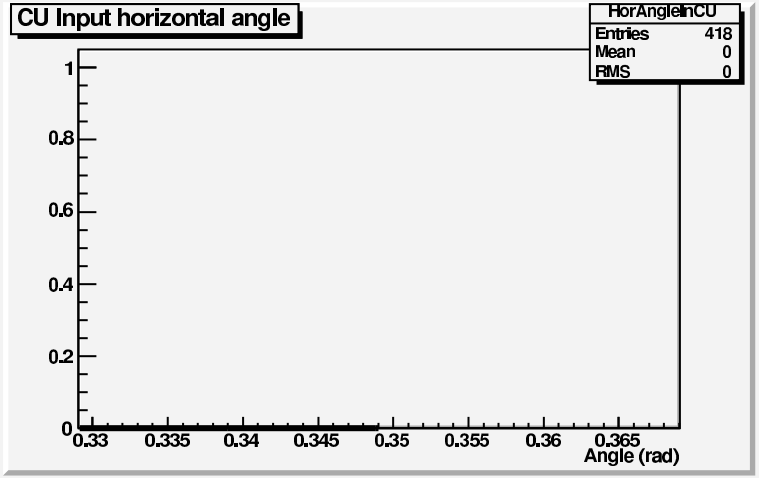

CU Input vertical angle
VertAngleInCU
Entries 4618
Mean 0.005464
RMS 0.0021
Angle (rad)

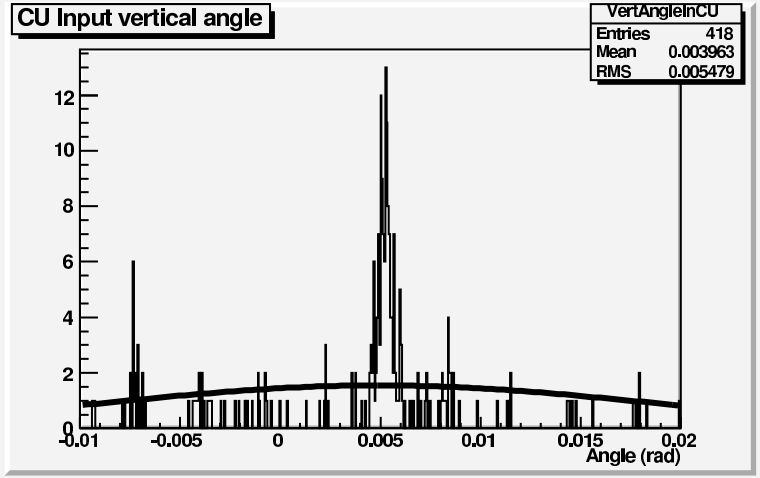

CU Input Beam Spot
SpotCoordInCU
Entries 4618
Mean x 438.9
Mean y 35.3
RMS x 27.49
RMS y 5.517
Vertical Position (mm)
Horizontal Position (mm)

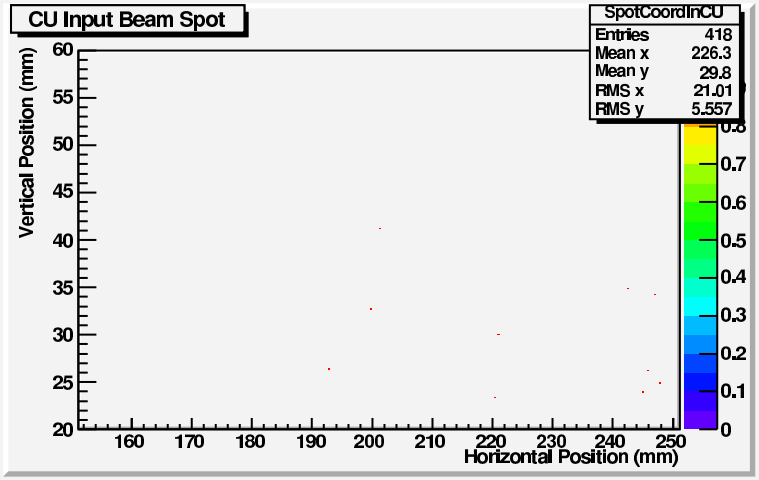

CU Input Beam Spot
SpotAngleInCU
Entries 4618
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

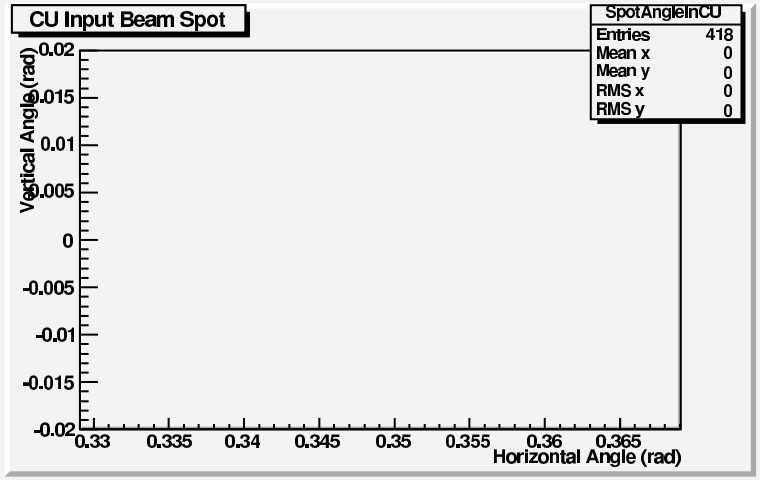

CU Input Horizontal coordinate
HorCoordInCU
Entries 418
Mean 252
RMS 42.5
Position (mm)

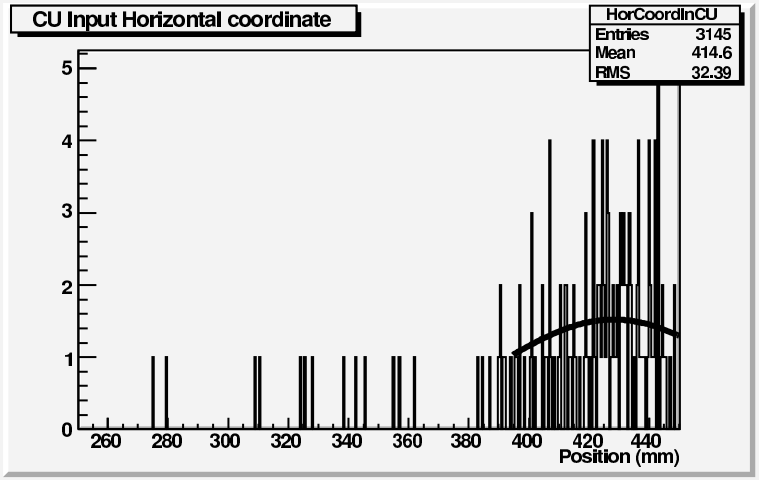

CU Input vertical coordinate
VertCoordInCU
Entries 418
Mean 27.14
RMS 17.95
Position (mm)

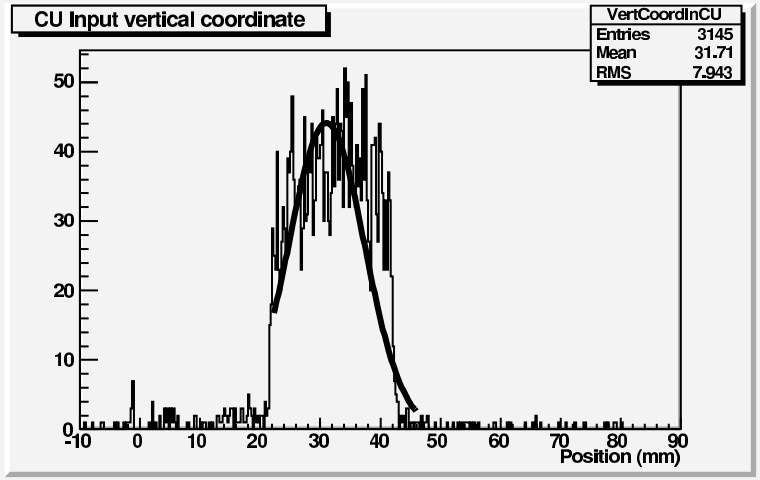

CU Input horizontal angle
HorAngleInCU
Entries 418
Mean 0
RMS 0
Angle (rad)

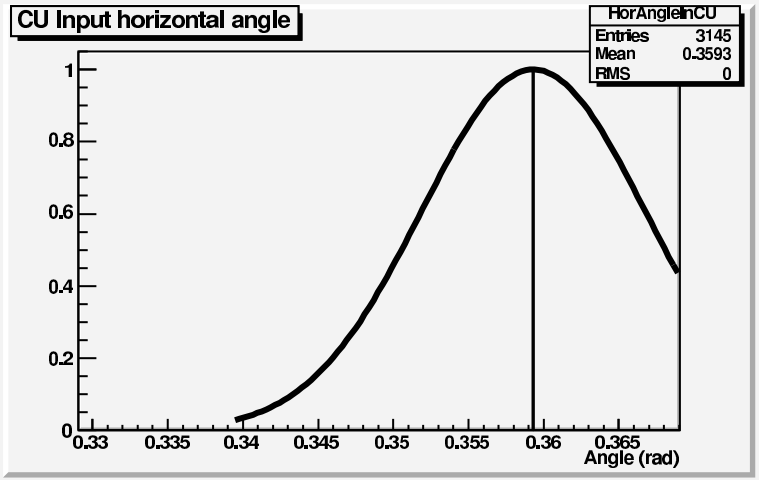

CU Input vertical angle
VertAngleInCU
Entries 418
Mean 0.003963
RMS 0.005479
Angle (rad)

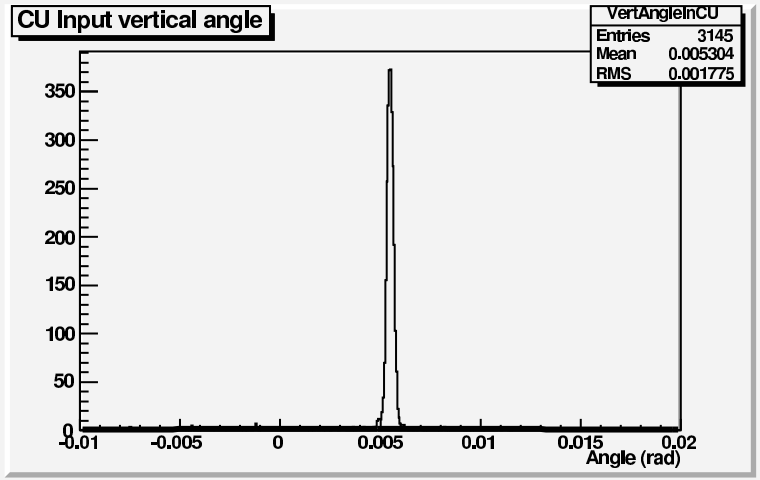

CU Input Beam Spot
SpotCoordInCU
Entries 418
Mean x 226.3
Mean y 29.8
RMS x 21.01
RMS y 5.557
Vertical Position (mm)
Horizontal Position (mm)

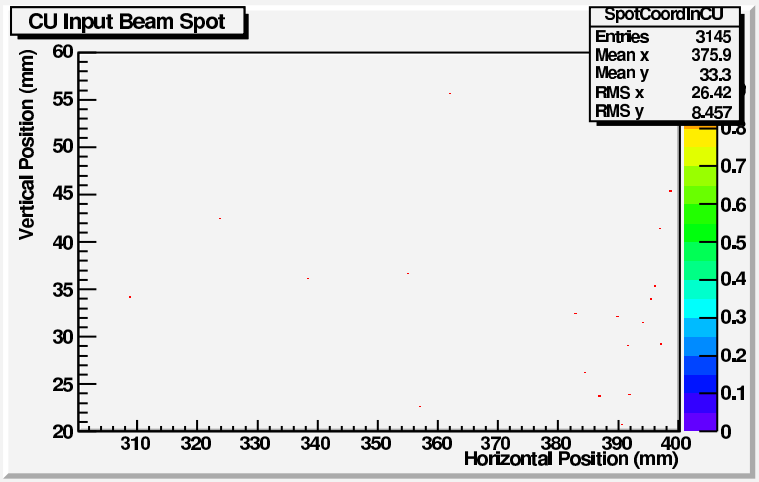

CU Input Beam Spot
SpotAngleInCU
Entries 418
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

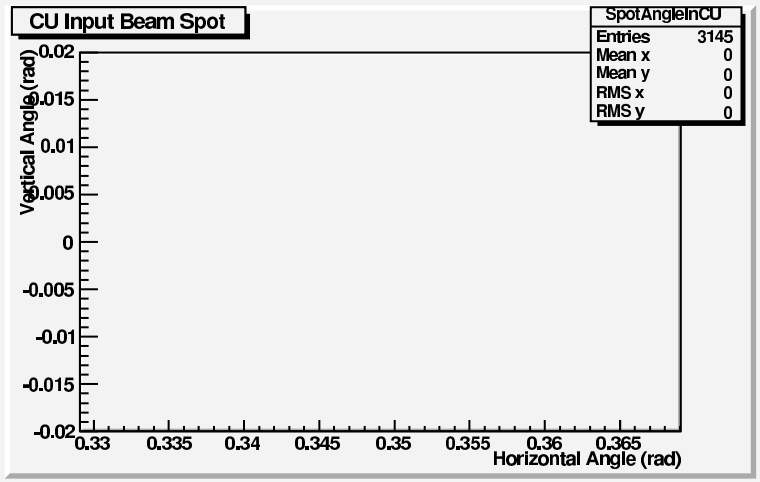

CU Input Horizontal coordinate
HorCoordInCU
Entries 3145
Mean 414.6
RMS 32.39
Position (mm)

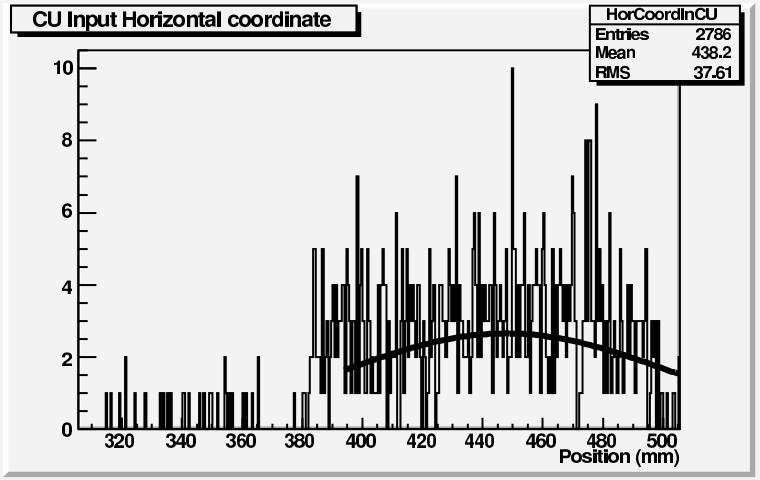

CU Input vertical coordinate
VertCoordInCU
Entries 3145
Mean 31.71
RMS 7.943
Position (mm)

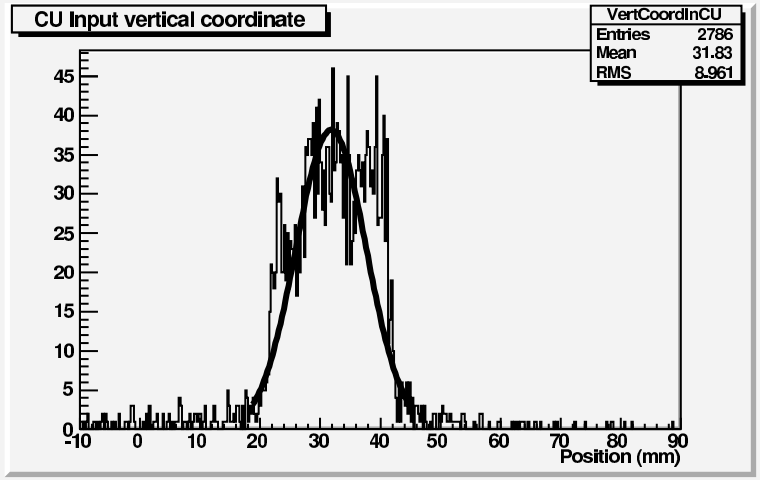

CU Input horizontal angle
HorAngleInCU
Entries 3145
Mean 0.3593
RMS 0
Angle (rad)

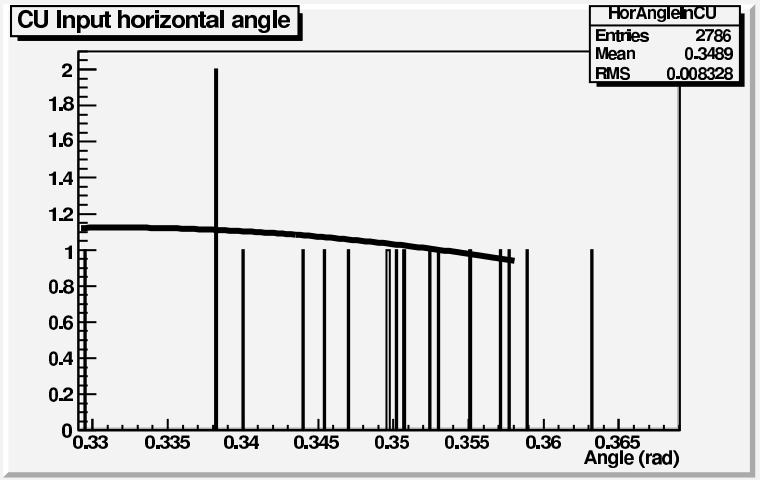

CU Input vertical angle
VertAngleInCU
Entries 3145
Mean 0.005304
RMS 0.001775
Angle (rad)

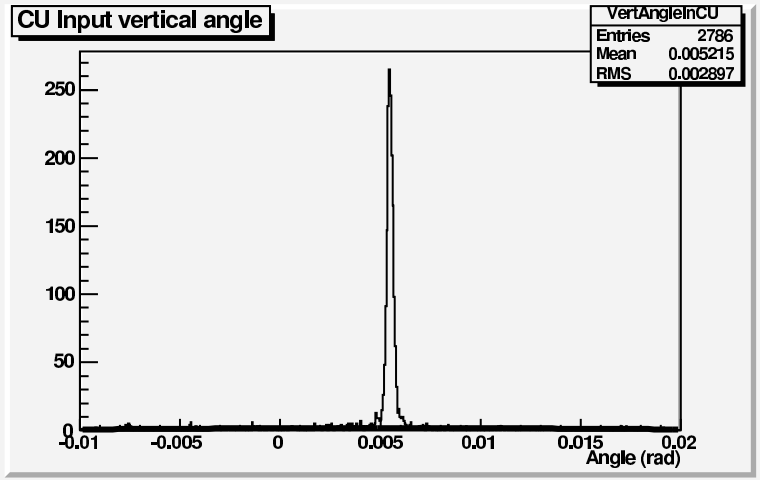

CU Input Beam Spot
SpotCoordInCU
Entries 3145
Mean x 375.9
Mean y 33.3
RMS x 26.42
RMS y 8.457
Vertical Position (mm)
Horizontal Position (mm)

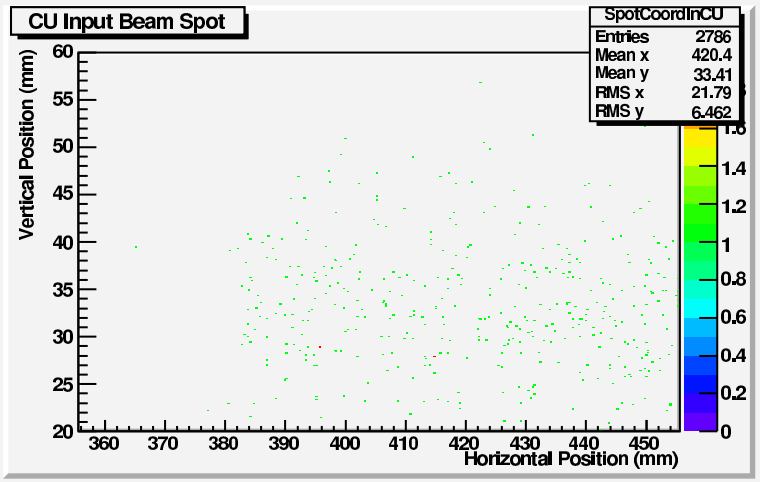

CU Input Beam Spot
SpotAngleInCU
Entries 3145
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

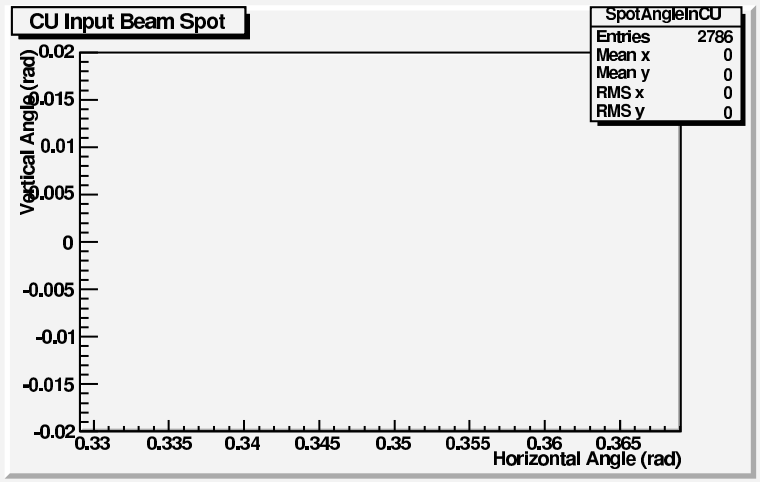

CU Input Horizontal coordinate
HorCoordInCU
Entries 2786
Mean 438.2
RMS 37.61
Position (mm)

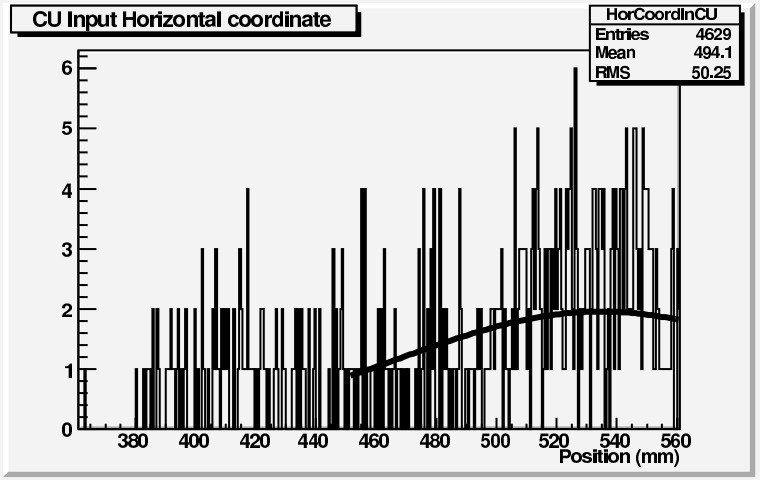

CU Input vertical coordinate
VertCoordInCU
Entries 2786
Mean 31.83
RMS 8.961
Position (mm)

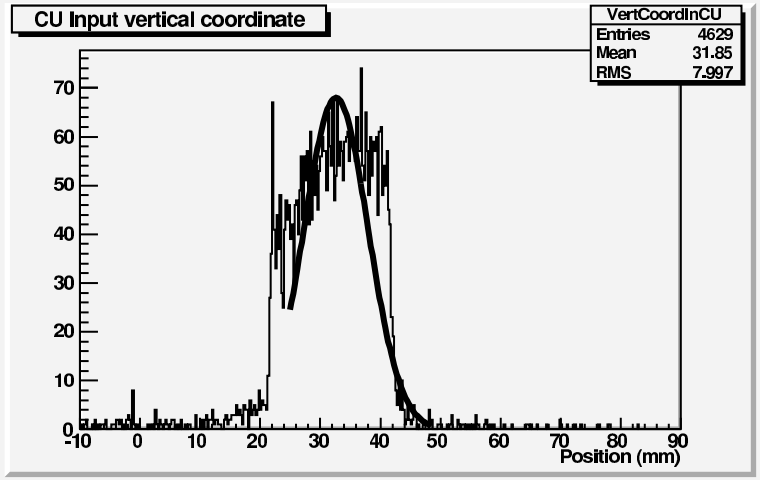

CU Input horizontal angle
HorAngleInCU
Entries 2786
Mean 0.3489
RMS 0.008328
Angle (rad)

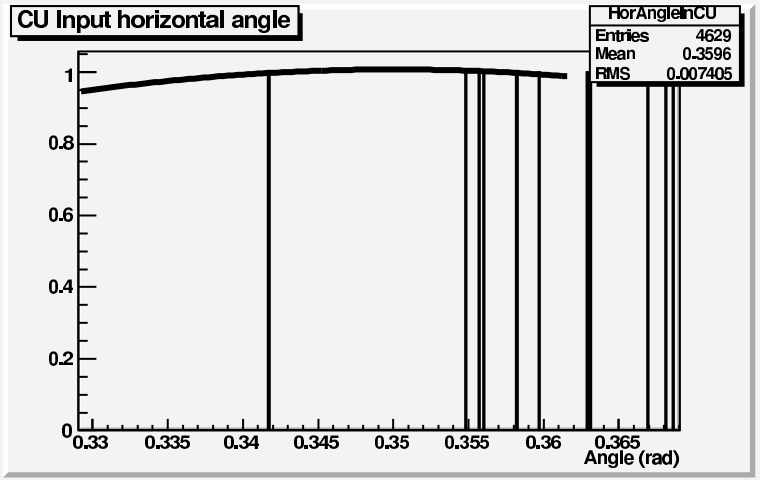

CU Input vertical angle
VertAngleInCU
Entries 2786
Mean 0.005215
RMS 0.002897
Angle (rad)

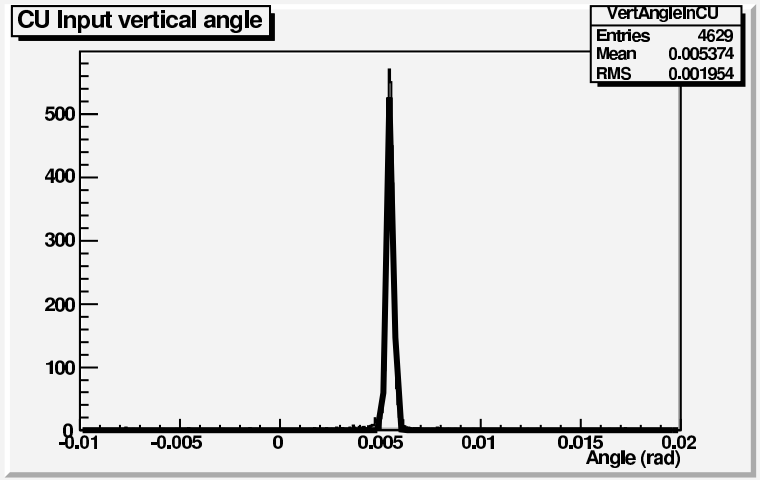

CU Input Beam Spot
SpotCoordInCU
Entries 2786
Mean x 420.4
Mean y 33.41
RMS x 21.79
RMS y 6.462
Vertical Position (mm)
Horizontal Position (mm)

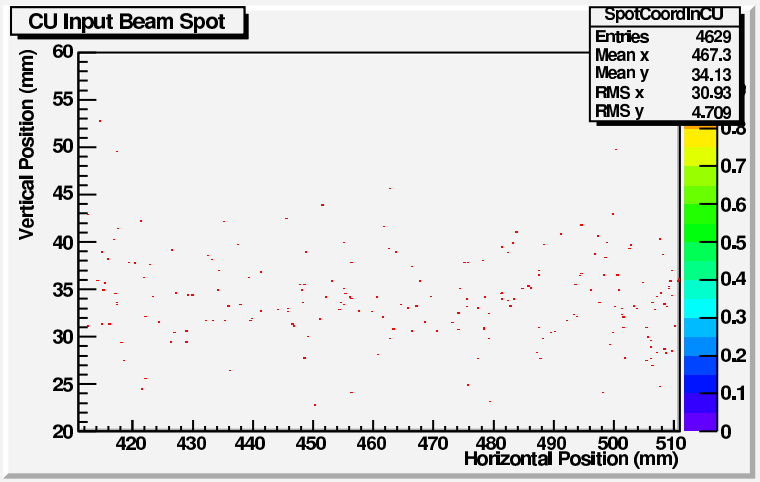

CU Input Beam Spot
SpotAngleInCU
Entries 2786
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

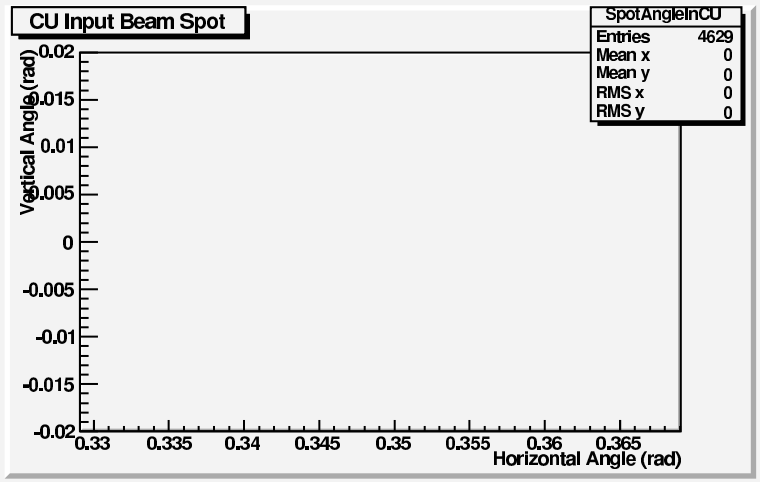

CU Input Horizontal coordinate
HorCoordInCU
Entries 4629
Mean 494.1
RMS 50.25
Position (mm)

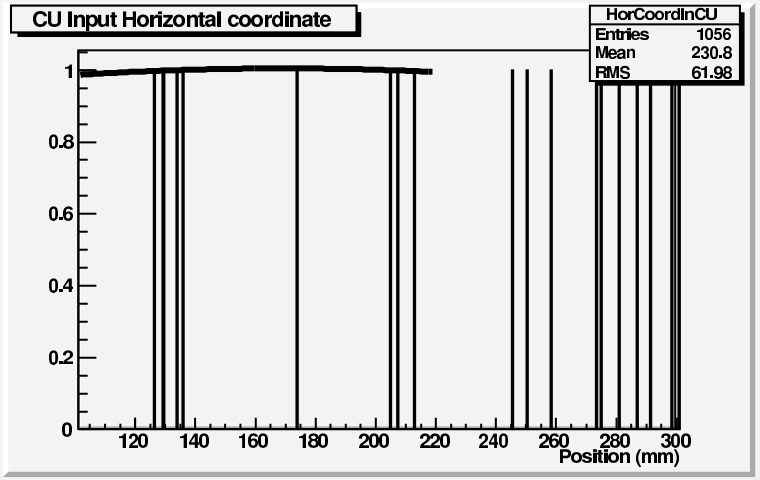

CU Input vertical coordinate
VertCoordInCU
Entries 4629
Mean 31.85
RMS 7.997
Position (mm)

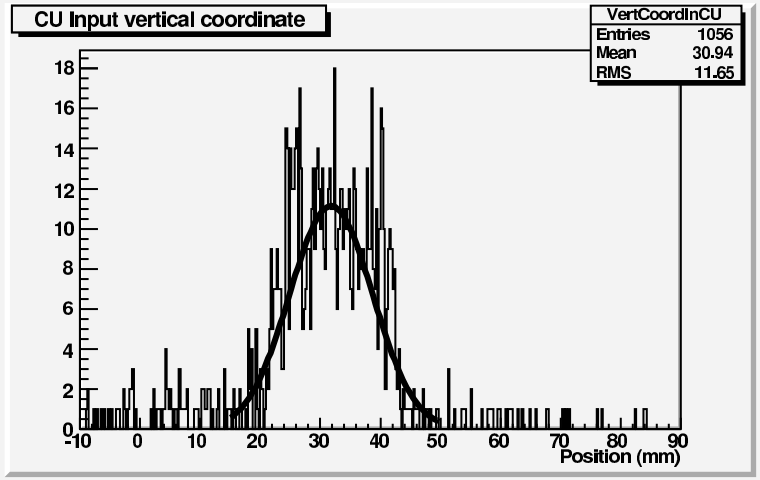

CU Input horizontal angle
HorAngleInCU
Entries 4629
Mean 0.3596
RMS 0.007405
Angle (rad)

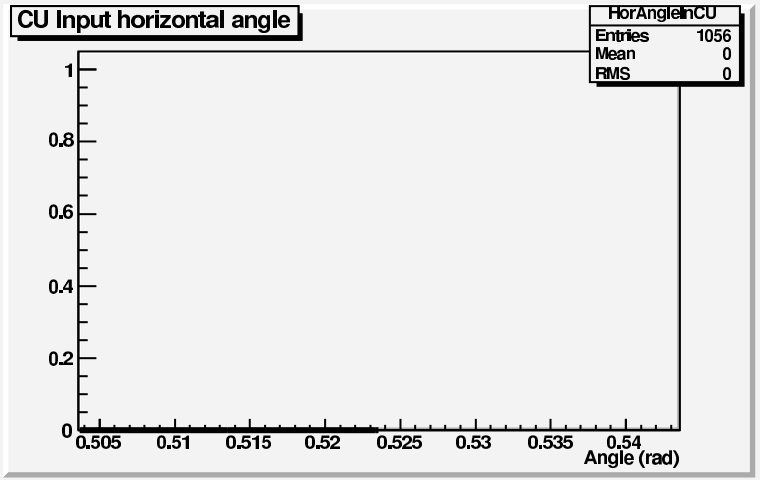

CU Input vertical angle
VertAngleInCU
Entries 4629
Mean 0.005374
RMS 0.001954
Angle (rad)

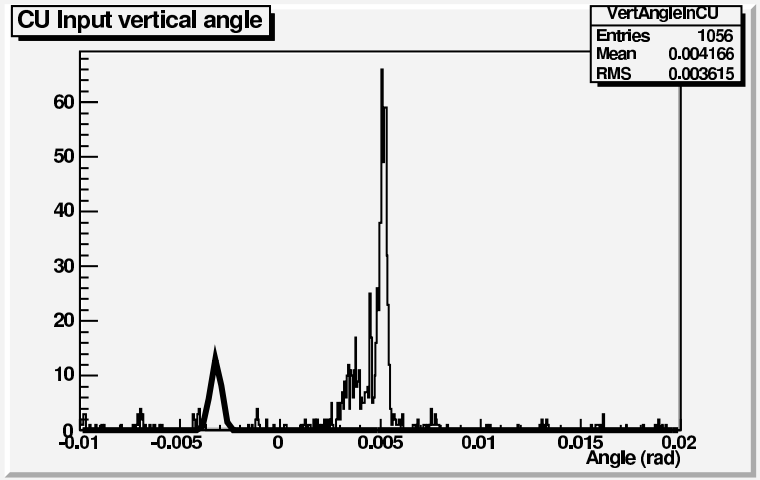

CU Input Beam Spot
SpotCoordInCU
Entries 4629
Mean x 467.3
Mean y 34.13
RMS x 30.93
RMS y 4.709
Vertical Position (mm)
Horizontal Position (mm)

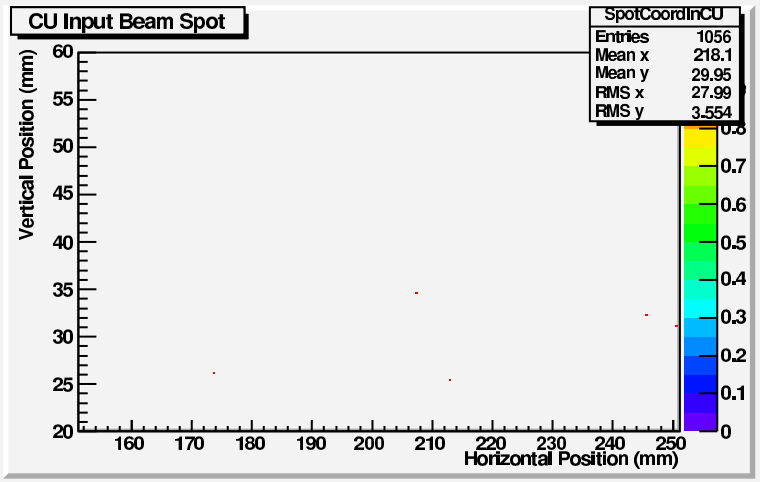

CU Input Beam Spot
SpotAngleInCU
Entries 4629
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

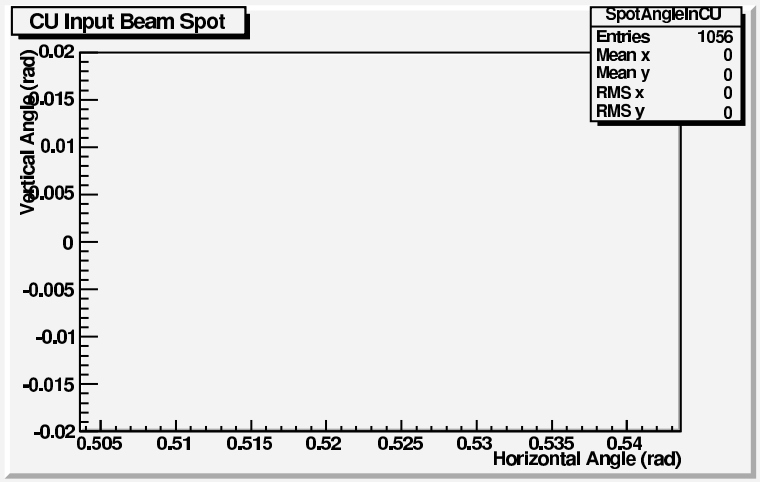

CU Input Horizontal coordinate
HorCoordInCU
Entries 1056
Mean 230.8
RMS 61.98
Position (mm)

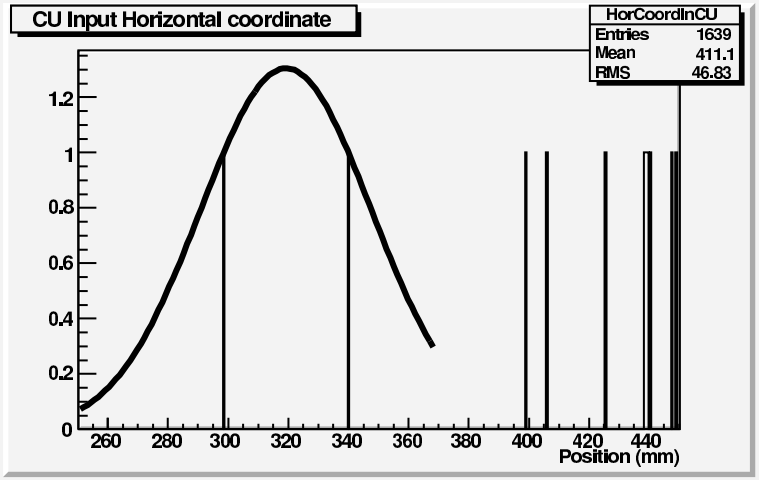

CU Input vertical coordinate
VertCoordInCU
Entries 1056
Mean 30.94
RMS 11.65
Position (mm)

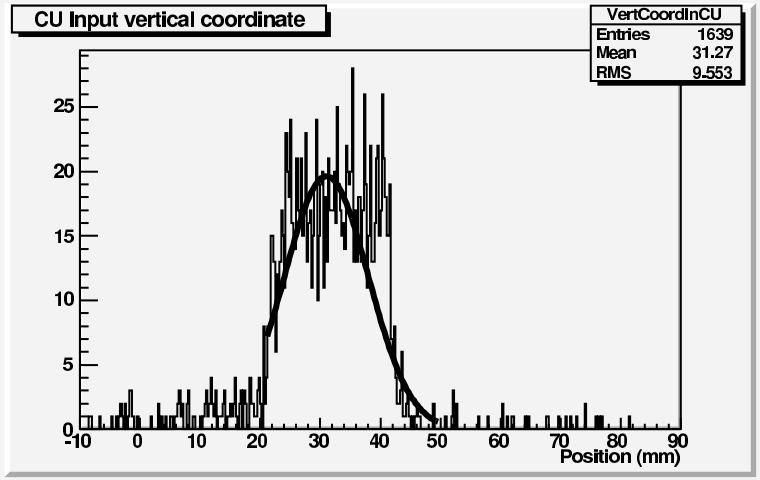

CU Input horizontal angle
HorAngleInCU
Entries 1056
Mean 0
RMS 0
Angle (rad)

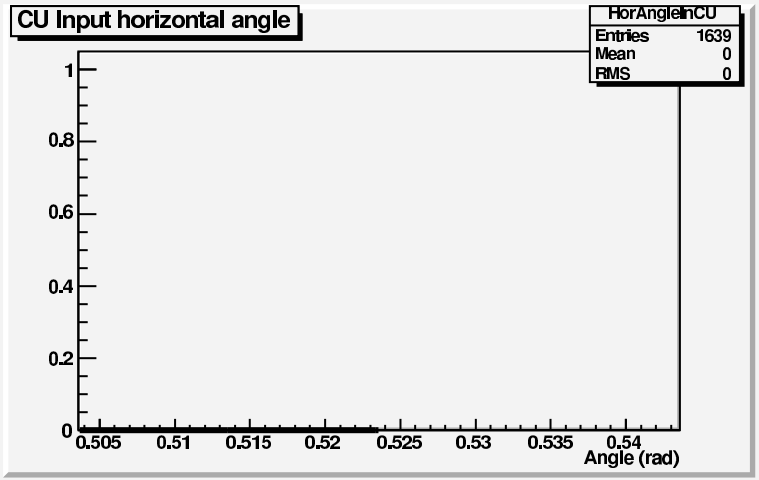

CU Input vertical angle
VertAngleInCU
Entries 1056
Mean 0.004166
RMS 0.003615
Angle (rad)

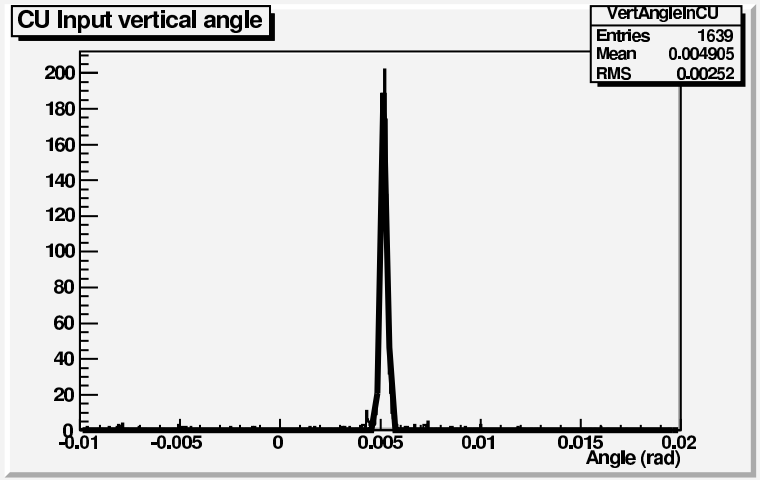

CU Input Beam Spot
SpotCoordInCU
Entries 1056
Mean x 218.1
Mean y 29.95
RMS x 27.99
RMS y 3.554
Vertical Position (mm)
Horizontal Position (mm)

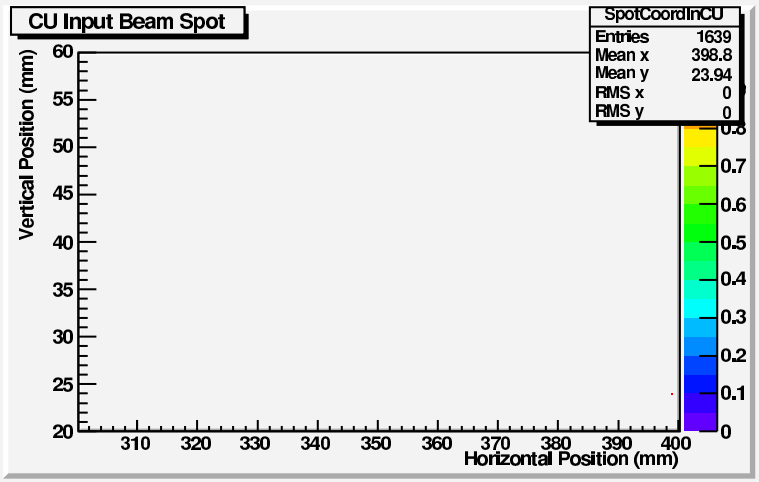

CU Input Beam Spot
SpotAngleInCU
Entries 1056
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

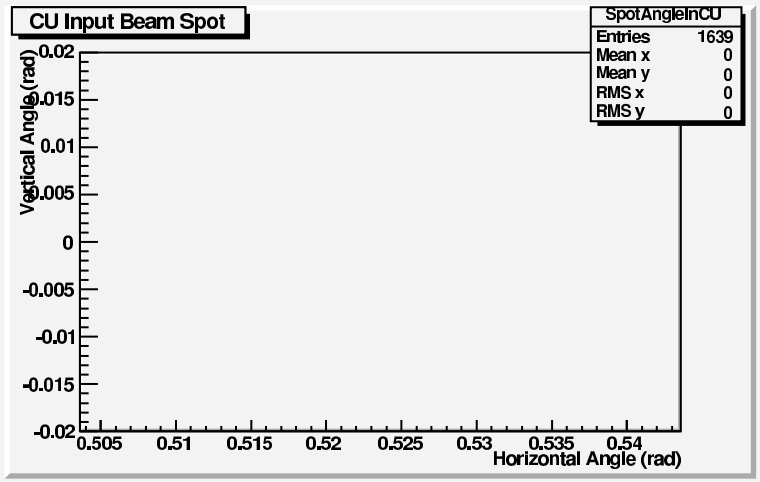

CU Input Horizontal coordinate
HorCoordInCU
Entries 1639
Mean 411.1
RMS 46.83
Position (mm)

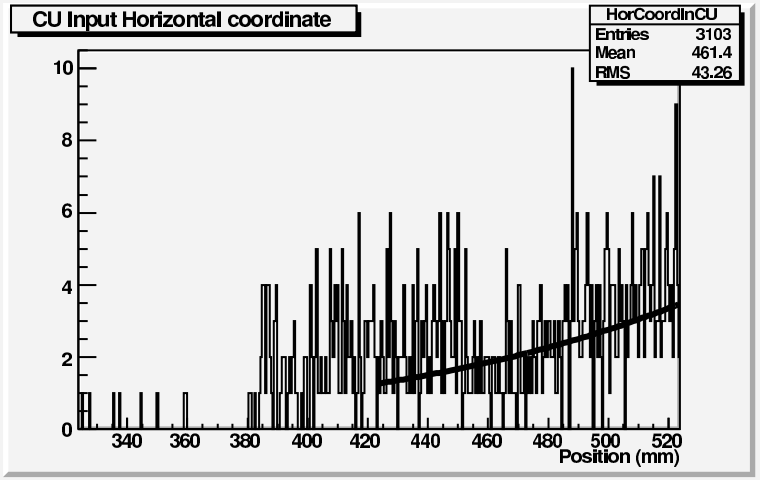

CU Input vertical coordinate
VertCoordInCU
Entries 1639
Mean 31.27
RMS 9.553
Position (mm)

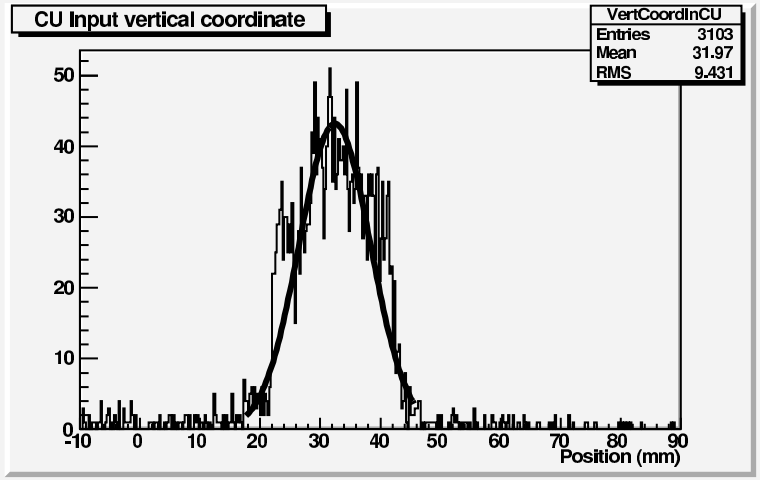

CU Input horizontal angle
HorAngleInCU
Entries 1639
Mean 0
RMS 0
Angle (rad)

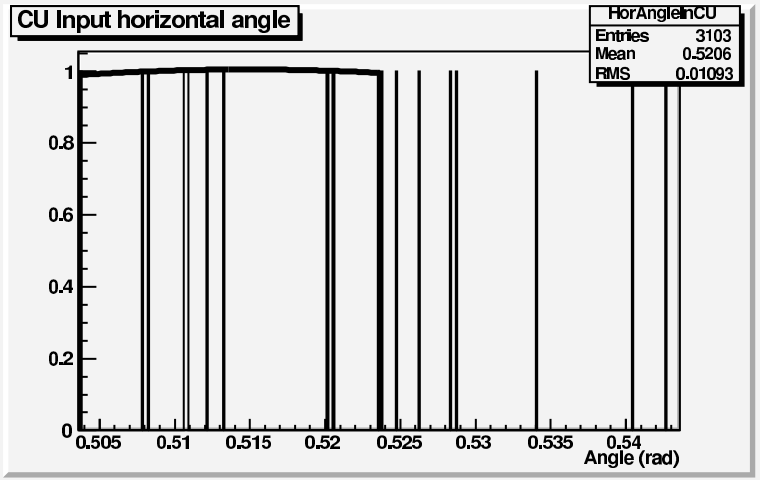

CU Input vertical angle
VertAngleInCU
Entries 1639
Mean 0.004905
RMS 0.00252
Angle (rad)

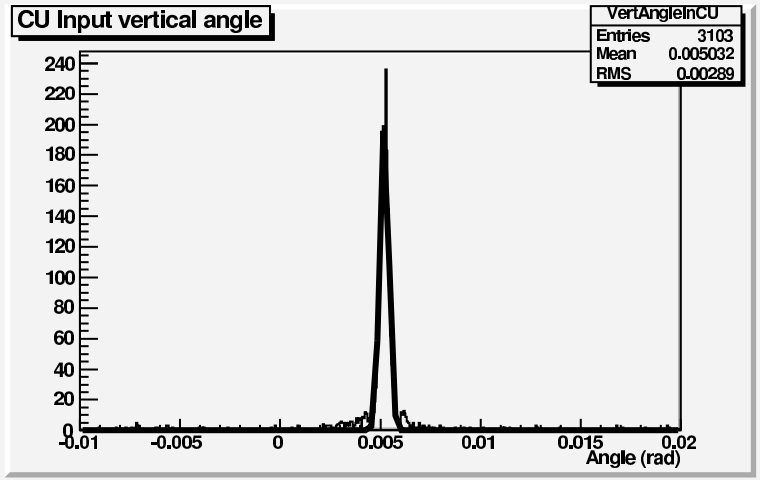

CU Input Beam Spot
SpotCoordInCU
Entries 1639
Mean x 398.8
Mean y 23.94
RMS x 0
RMS y 0
Vertical Position (mm)
Horizontal Position (mm)

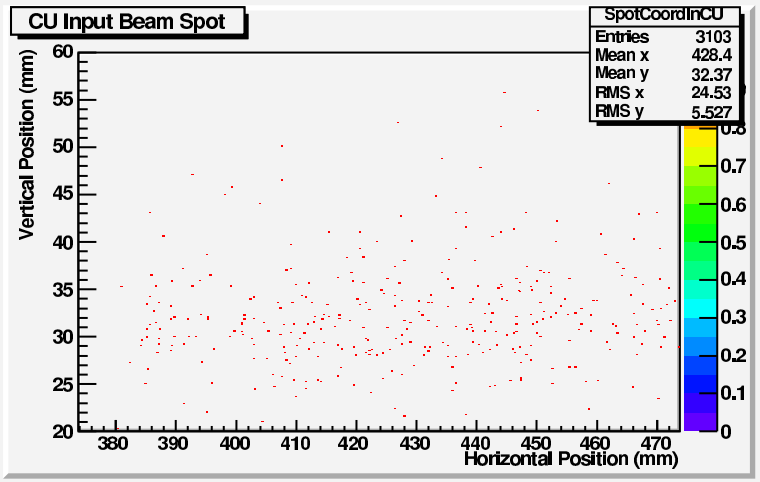

CU Input Beam Spot
SpotAngleInCU
Entries 1639
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

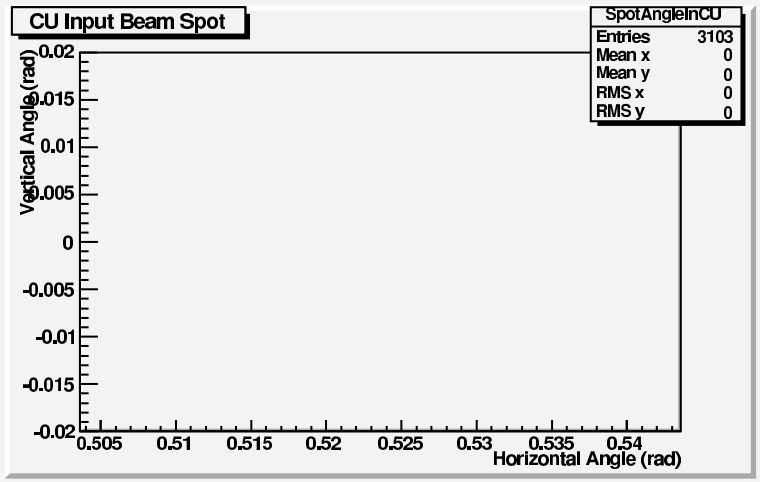

CU Input Horizontal coordinate
HorCoordInCU
Entries 3103
Mean 461.4
RMS 43.26
Position (mm)

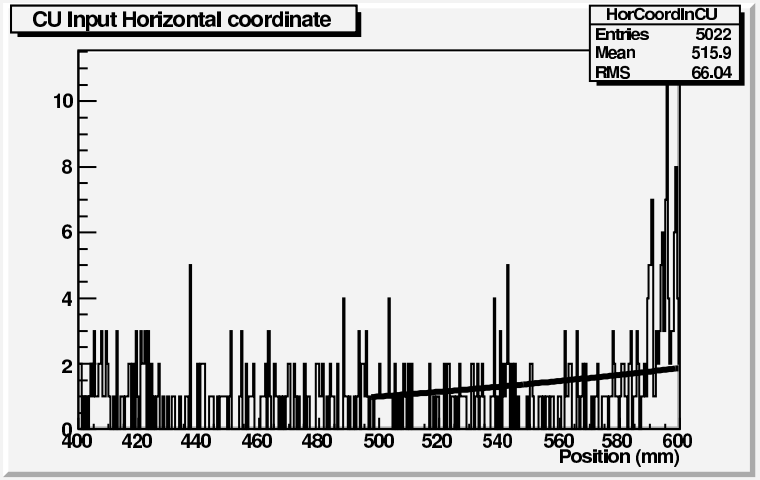

CU Input vertical coordinate
VertCoordInCU
Entries 3103
Mean 31.97
RMS 9.431
Position (mm)

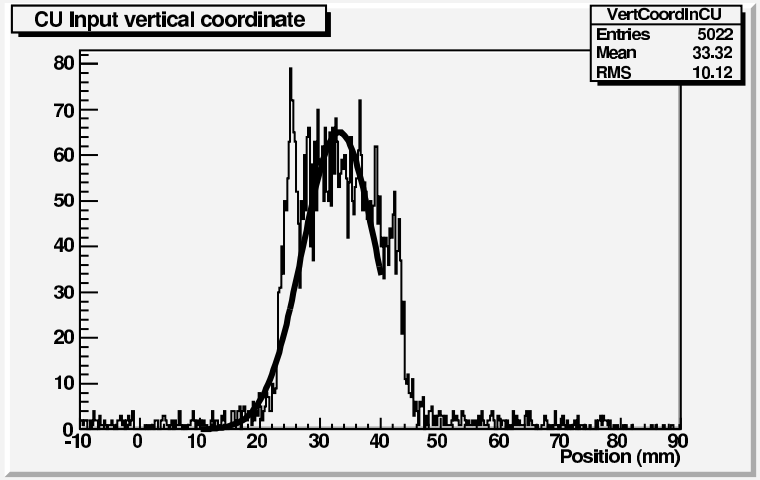

CU Input horizontal angle
HorAngleInCU
Entries 3103
Mean 0.5206
RMS 0.01093
Angle (rad)

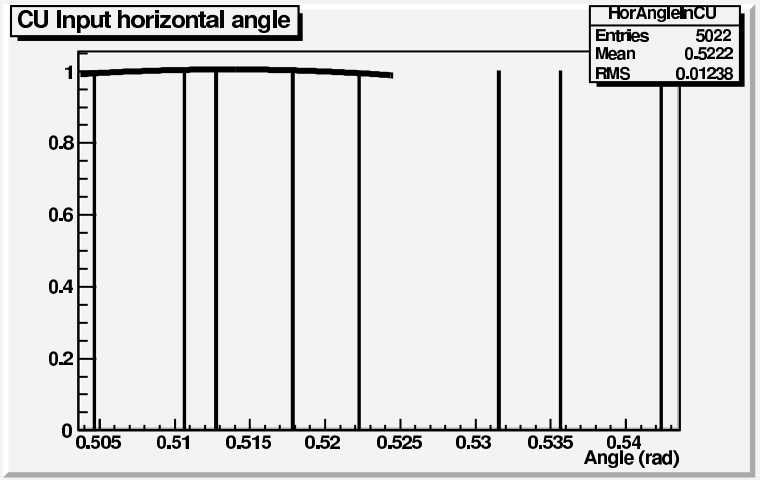

CU Input vertical angle
VertAngleInCU
Entries 3103
Mean 0.005032
RMS 0.00289
Angle (rad)

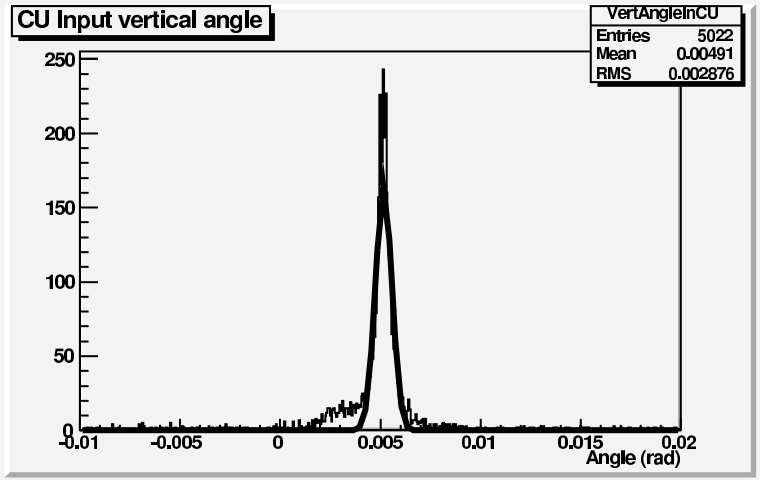

CU Input Beam Spot
SpotCoordInCU
Entries 3103
Mean x 428.4
Mean y 32.37
RMS x 24.53
RMS y 5.527
Vertical Position (mm)
Horizontal Position (mm)

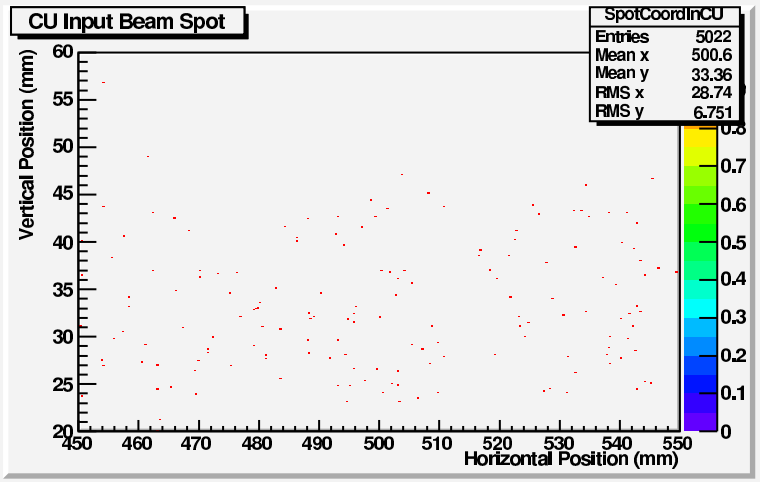

CU Input Beam Spot
SpotAngleInCU
Entries 3103
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

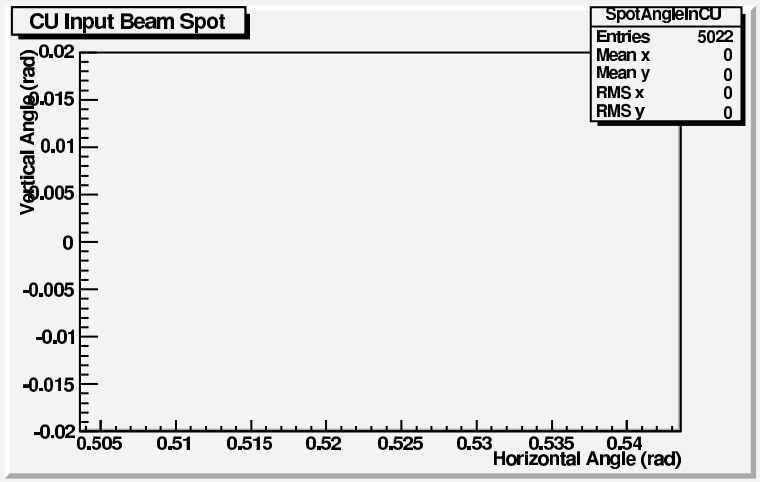

CU Input Horizontal coordinate
HorCoordInCU
Entries 5022
Mean 515.9
RMS 66.04
Position (mm)

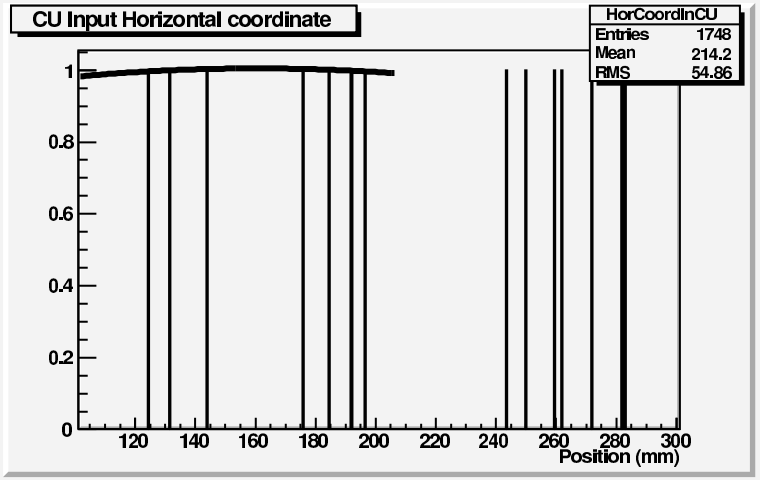

CU Input vertical coordinate
VertCoordInCU
Entries 5022
Mean 33.32
RMS 10.12
Position (mm)

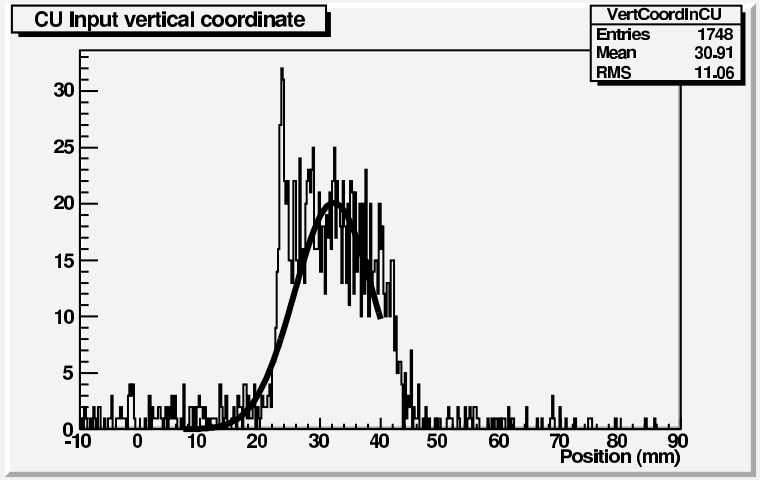

CU Input horizontal angle
HorAngleInCU
Entries 5022
Mean 0.5222
RMS 0.01238
Angle (rad)

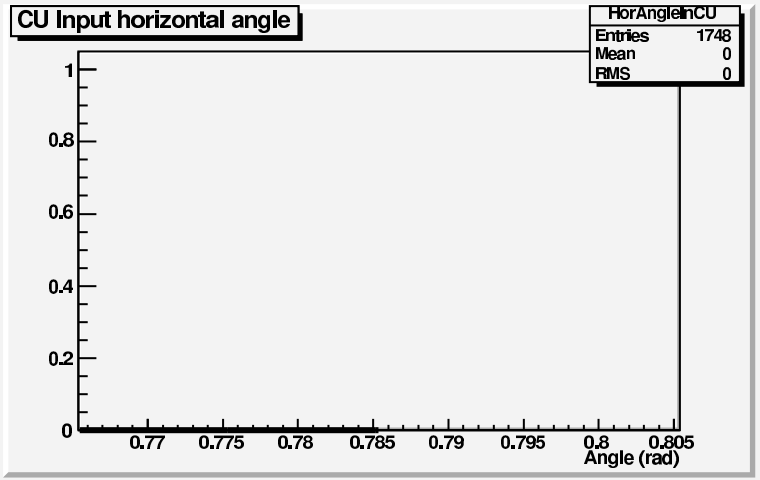

CU Input vertical angle
VertAngleInCU
Entries 5022
Mean 0.00491
RMS 0.002876
Angle (rad)

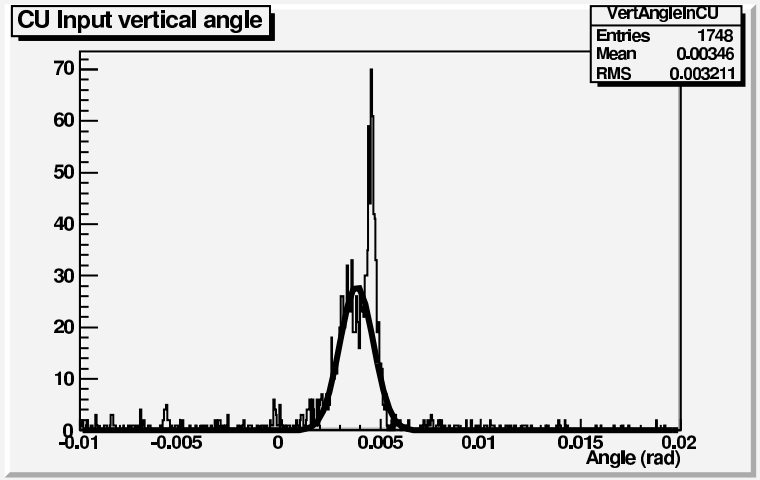

CU Input Beam Spot
SpotCoordInCU
Entries 5022
Mean x 500.6
Mean y 33.36
RMS x 28.74
RMS y 6.751
Vertical Position (mm)
Horizontal Position (mm)

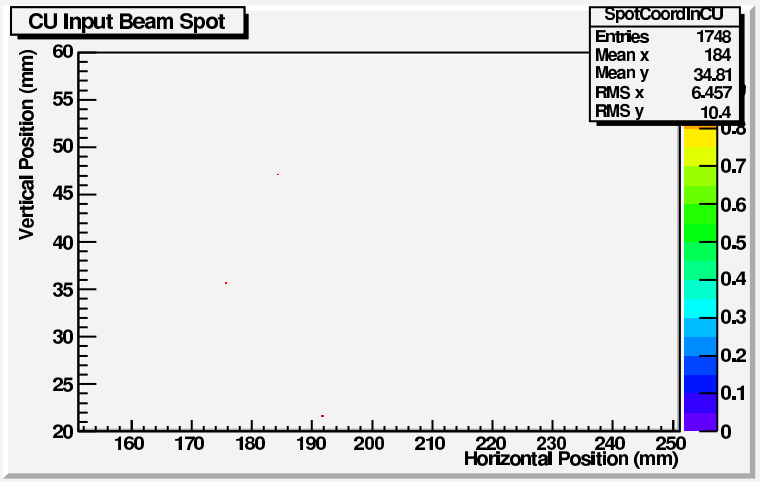

CU Input Beam Spot
SpotAngleInCU
Entries 5022
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

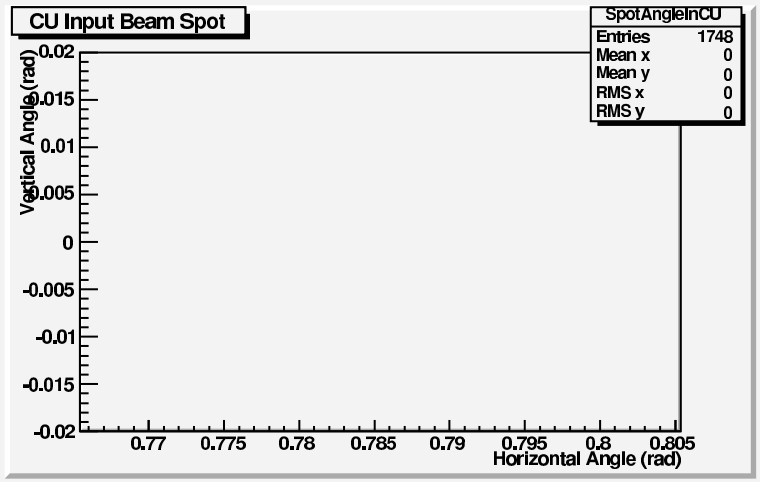

CU Input Horizontal coordinate
HorCoordInCU
Entries 1748
Mean 214.2
RMS 54.86
Position (mm)

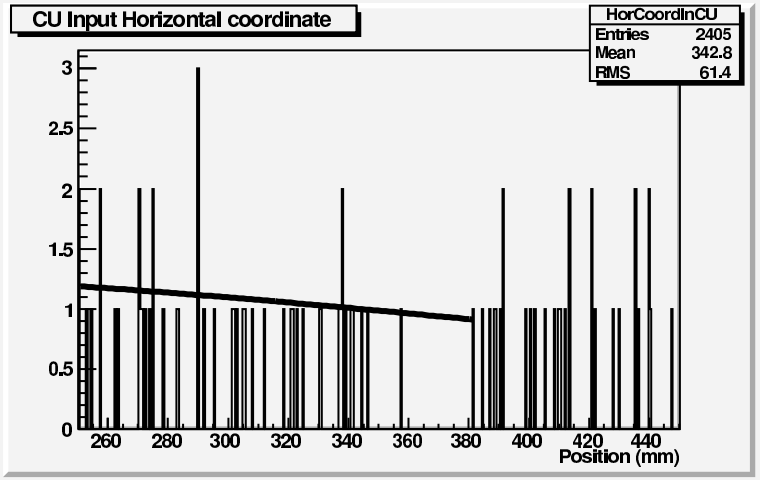

CU Input vertical coordinate
VertCoordInCU
Entries 1748
Mean 30.91
RMS 11.06
Position (mm)

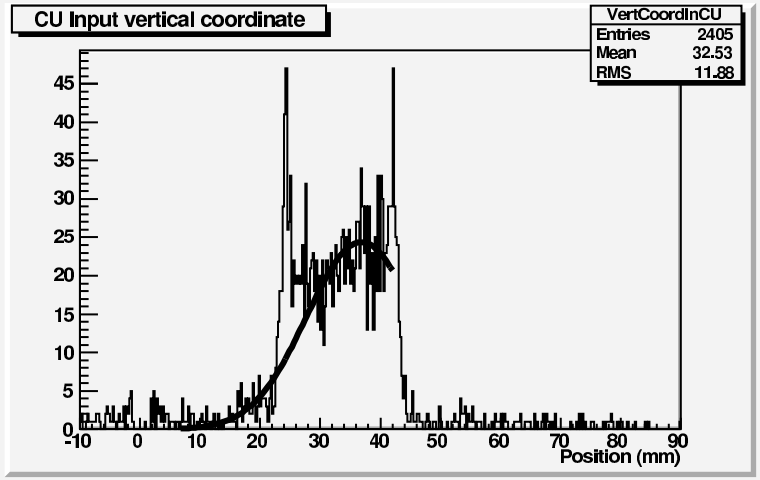

CU Input horizontal angle
HorAngleInCU
Entries 1748
Mean 0
RMS 0
Angle (rad)

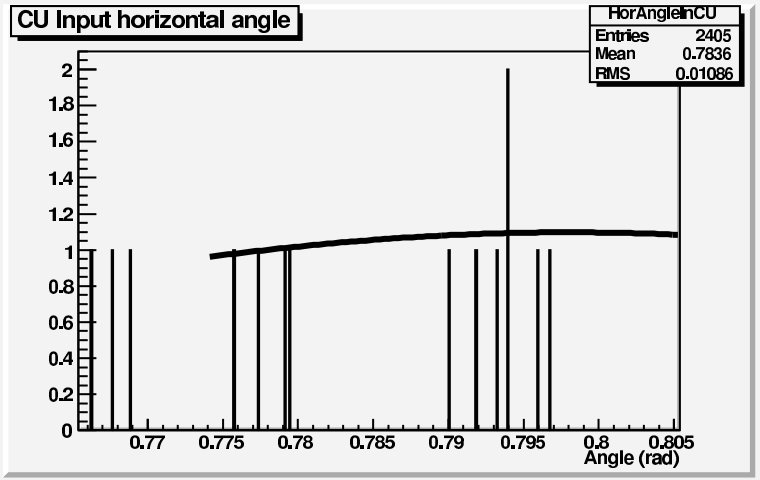

CU Input vertical angle
VertAngleInCU
Entries 1748
Mean 0.00346
RMS 0.003211
Angle (rad)

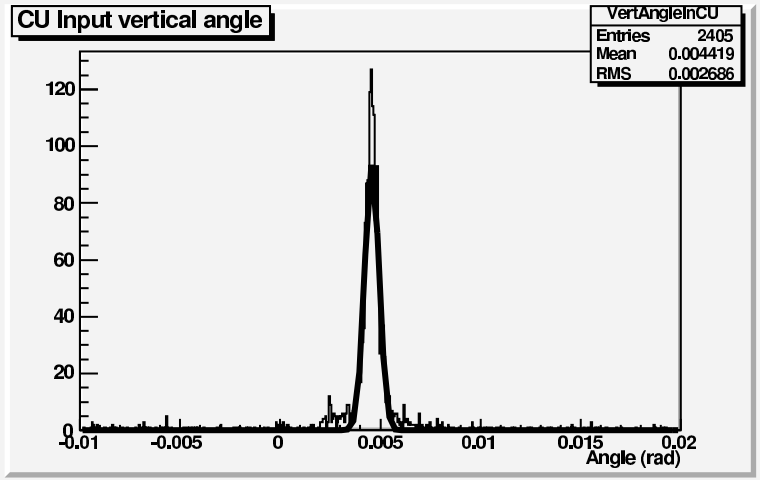

CU Input Beam Spot
SpotCoordInCU
Entries 1748
Mean x 184
Mean y 34.81
RMS x 6.457
RMS y 10.4
Vertical Position (mm)
Horizontal Position (mm)

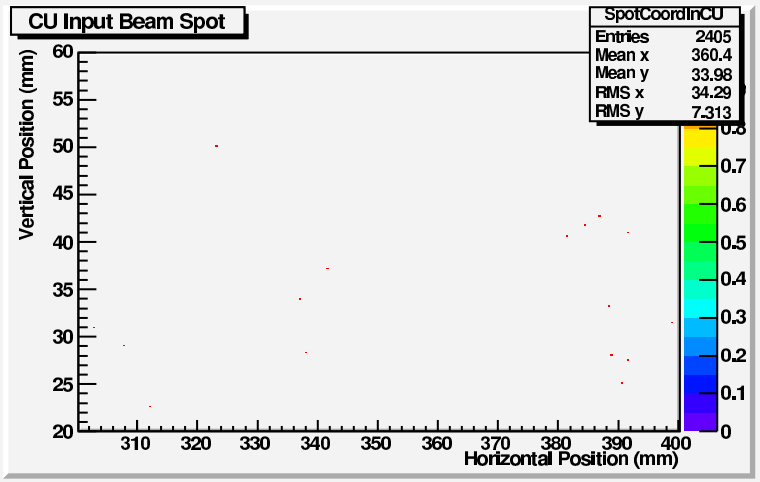

CU Input Beam Spot
SpotAngleInCU
Entries 1748
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

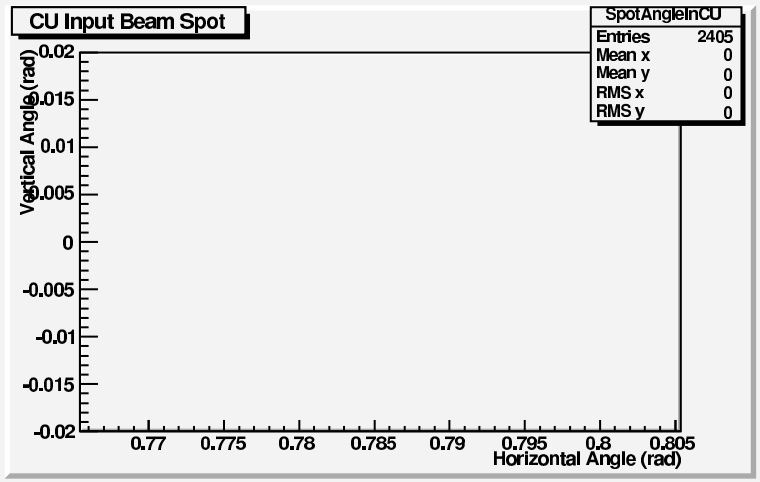

CU Input Horizontal coordinate
HorCoordInCU
Entries 2405
Mean 342.8
RMS 61.4
Position (mm)

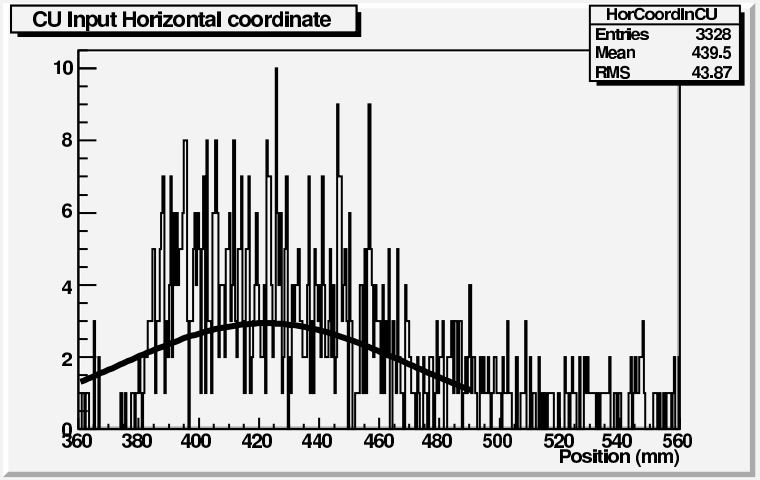

CU Input vertical coordinate
VertCoordInCU
Entries 2405
Mean 32.53
RMS 11.88
Position (mm)

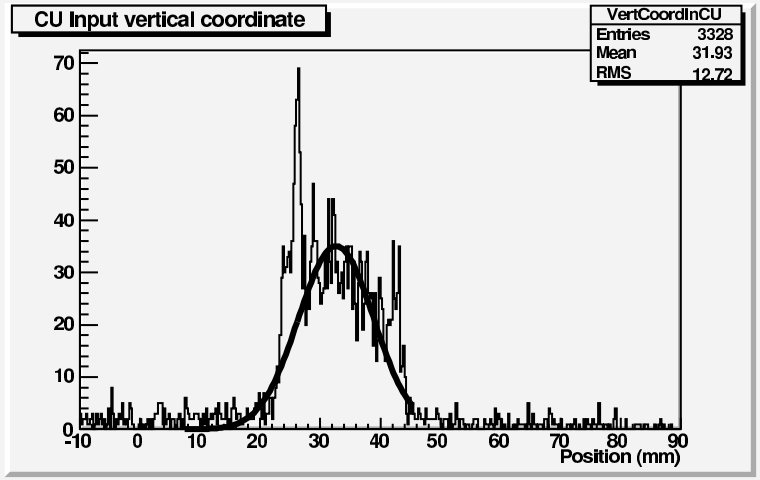

CU Input horizontal angle
HorAngleInCU
Entries 2405
Mean 0.7836
RMS 0.01086
Angle (rad)

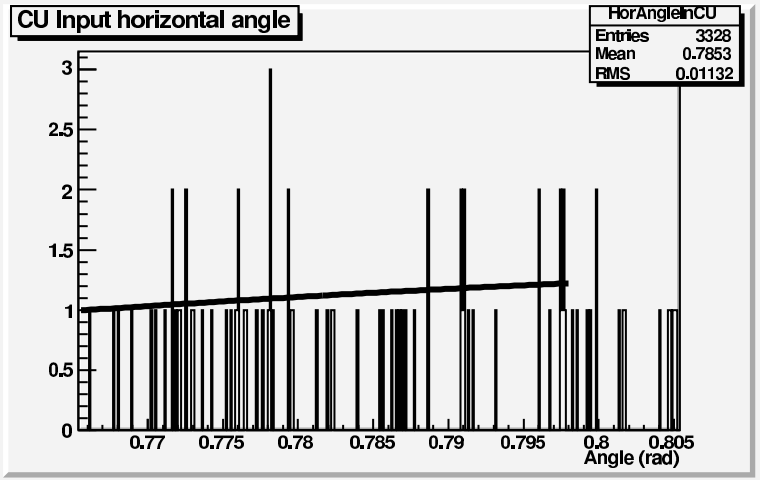

CU Input vertical angle
VertAngleInCU
Entries 2405
Mean 0.004419
RMS 0.002686
Angle (rad)

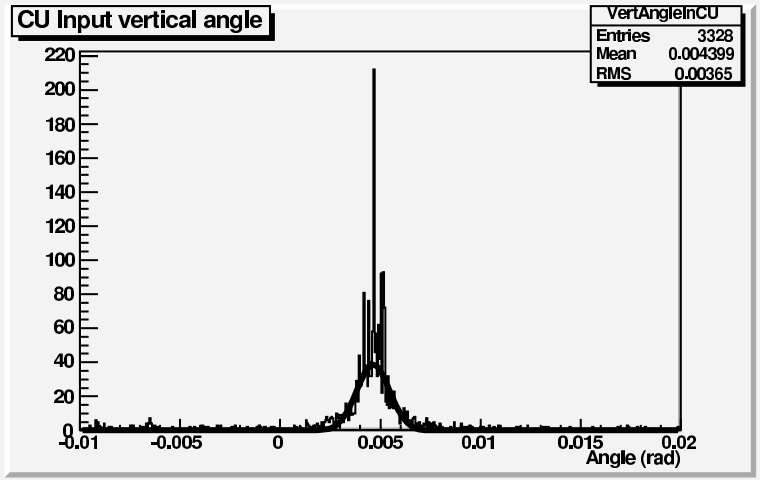

CU Input Beam Spot
SpotCoordInCU
Entries 2405
Mean x 360.4
Mean y 33.98
RMS x 34.29
RMS y 7.313
Vertical Position (mm)
Horizontal Position (mm)

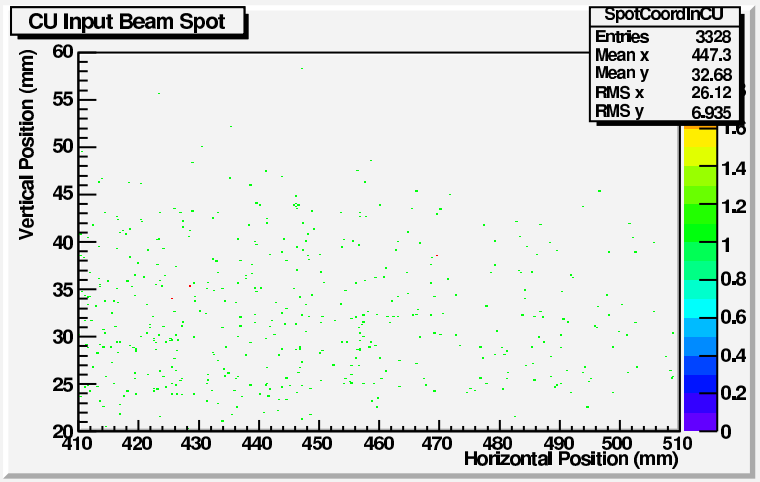

CU Input Beam Spot
SpotAngleInCU
Entries 2405
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

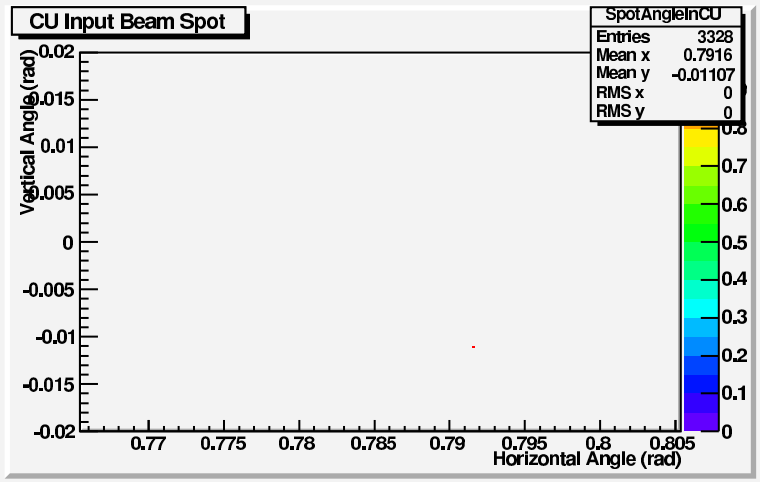

CU Input Horizontal coordinate
HorCoordInCU
Entries 3328
Mean 439.5
RMS 43.87
Position (mm)

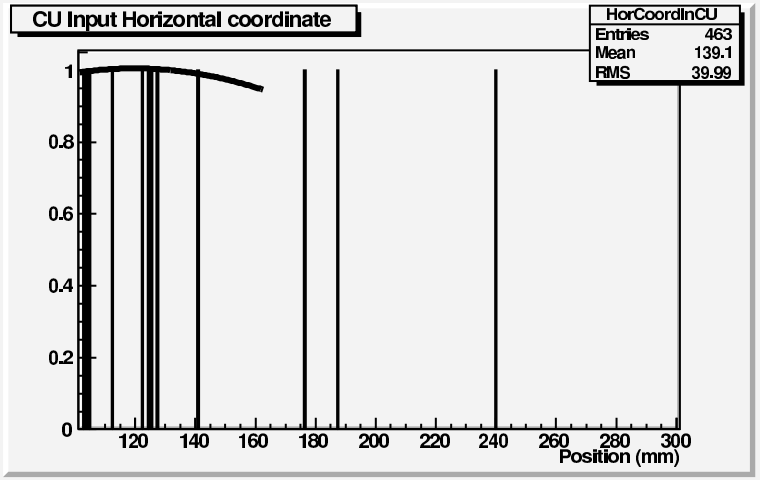

CU Input vertical coordinate
VertCoordInCU
Entries 3328
Mean 31.93
RMS 12.72
Position (mm)

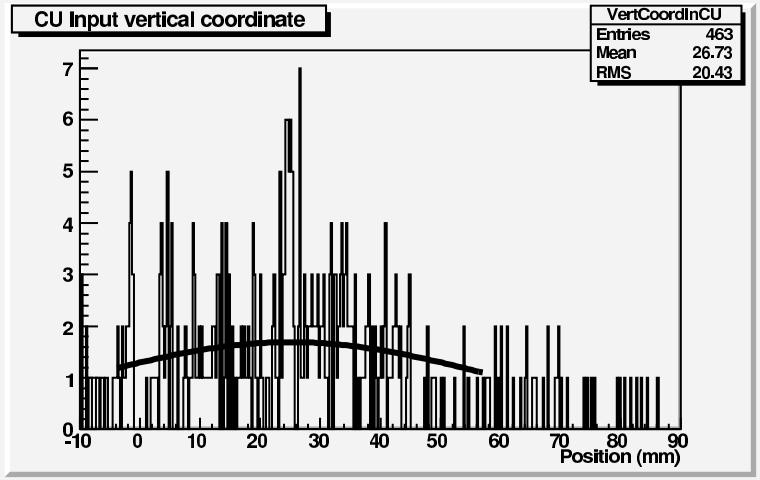

CU Input horizontal angle
HorAngleInCU
Entries 3328
Mean 0.7853
RMS 0.01132
Angle (rad)

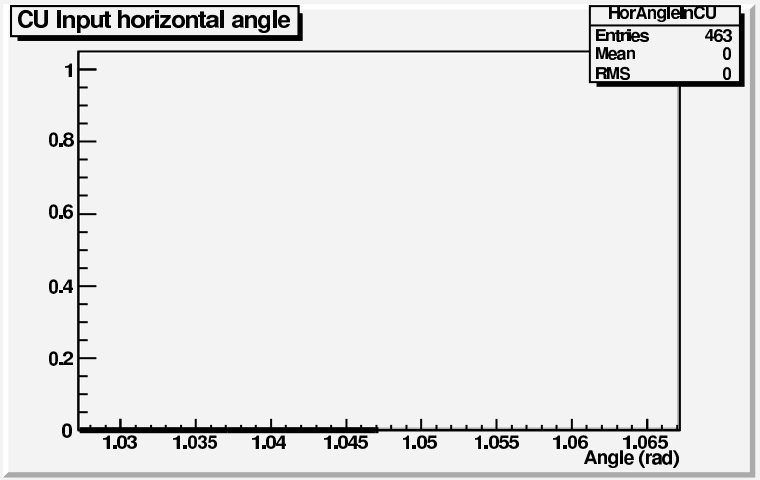

CU Input vertical angle
VertAngleInCU
Entries 3328
Mean 0.004399
RMS 0.00365
Angle (rad)

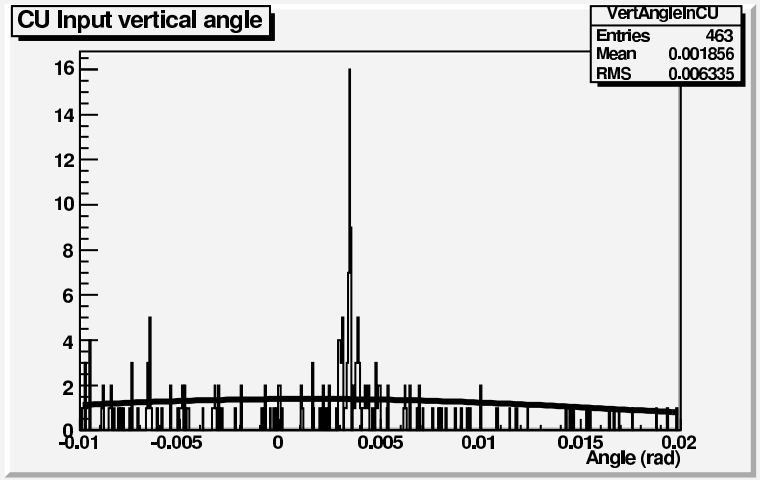

CU Input Beam Spot
SpotCoordInCU
Entries 3328
Mean x 447.3
Mean y 32.68
RMS x 26.12
RMS y 6.935
Vertical Position (mm)
Horizontal Position (mm)

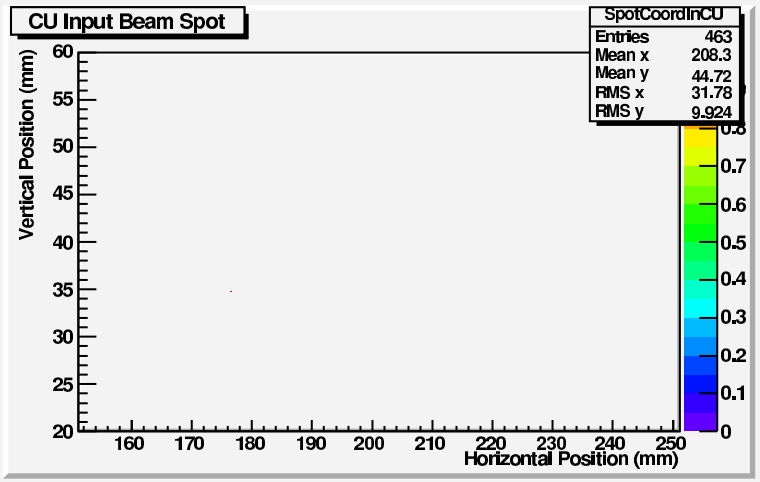

CU Input Beam Spot
SpotAngleInCU
Entries 3328
Mean x 0.7916
Mean y -0.01107
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

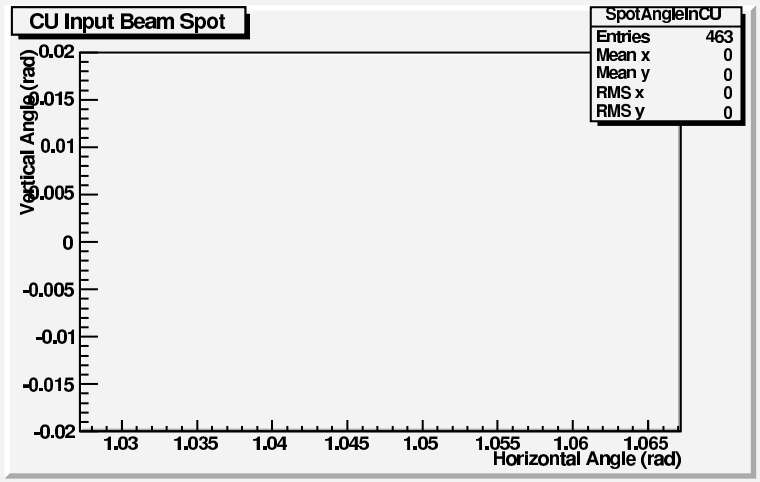

CU Input Horizontal coordinate
HorCoordInCU
Entries 463
Mean 139.1
RMS 39.99
Position (mm)

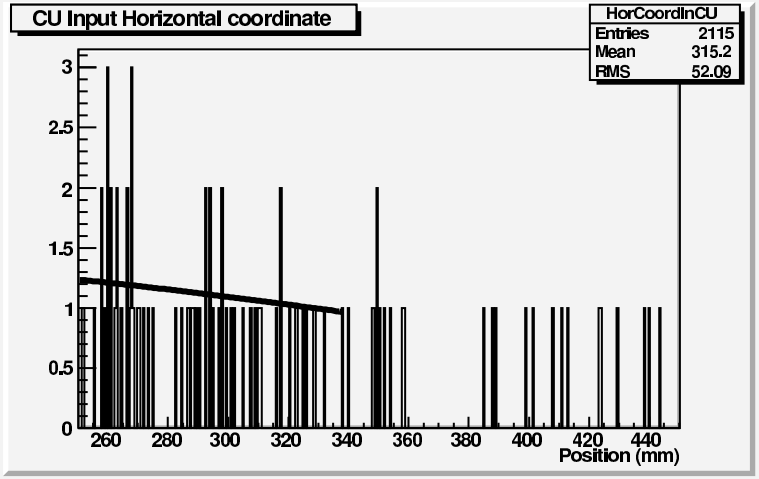

CU Input vertical coordinate
VertCoordInCU
Entries 463
Mean 26.73
RMS 20.43
Position (mm)

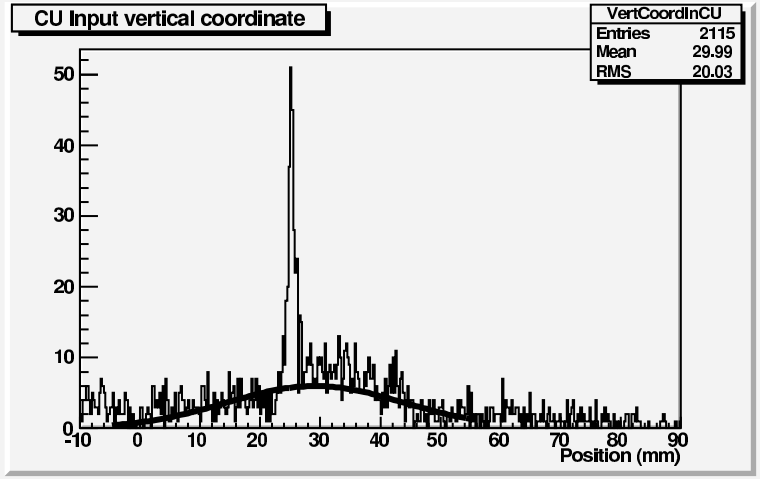

CU Input horizontal angle
HorAngleInCU
Entries 463
Mean 0
RMS 0
Angle (rad)

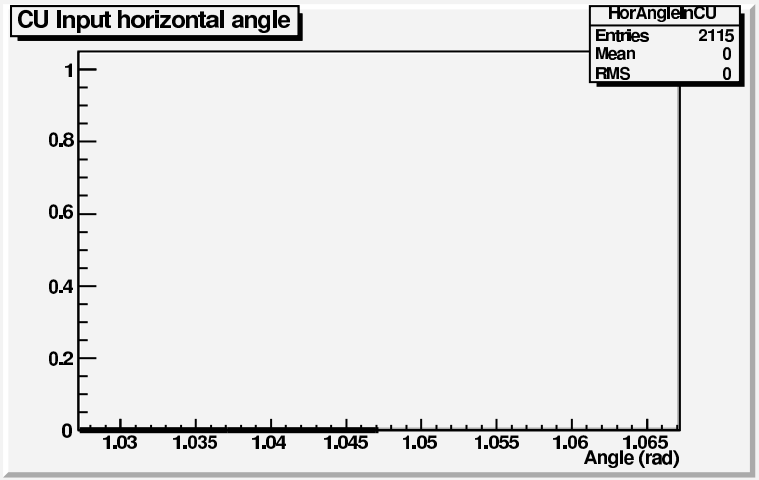

CU Input vertical angle
VertAngleInCU
Entries 463
Mean 0.001856
RMS 0.006335
Angle (rad)

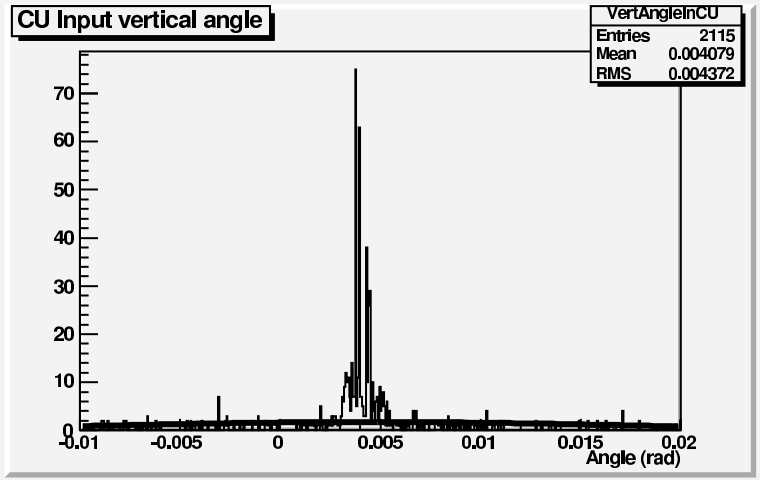

CU Input Beam Spot
SpotCoordInCU
Entries 463
Mean x 208.3
Mean y 44.72
RMS x 31.78
RMS y 9.924
Vertical Position (mm)
Horizontal Position (mm)

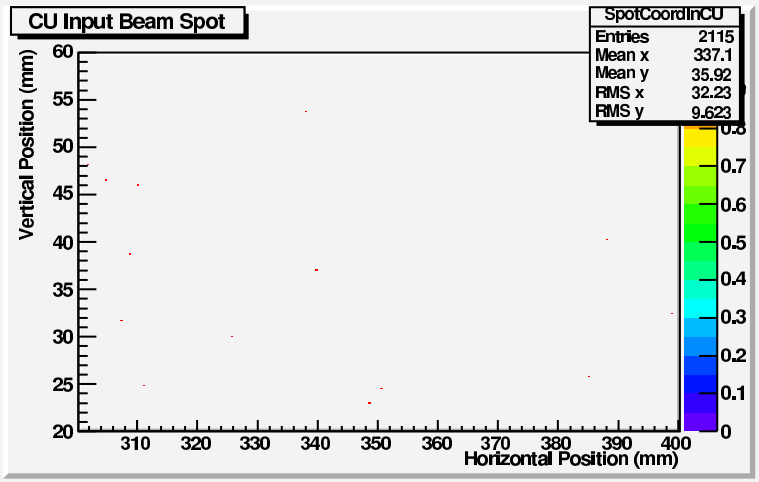

CU Input Beam Spot
SpotAngleInCU
Entries 463
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

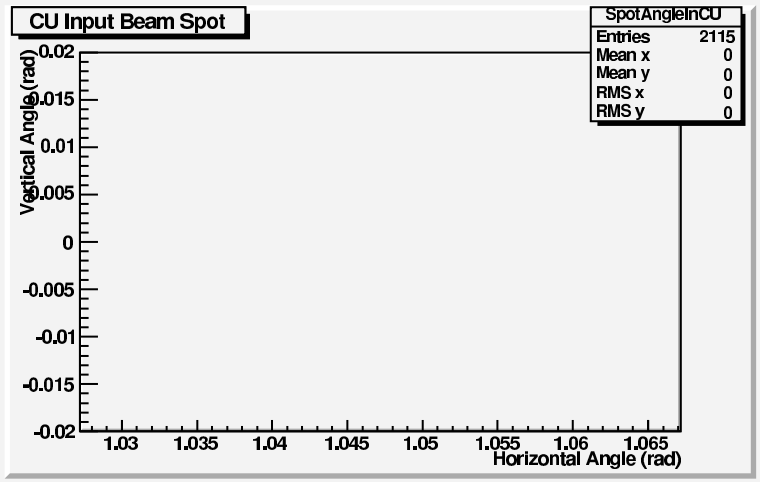

CU Input Horizontal coordinate
HorCoordInCU
Entries 2115
Mean 315.2
RMS 52.09
Position (mm)

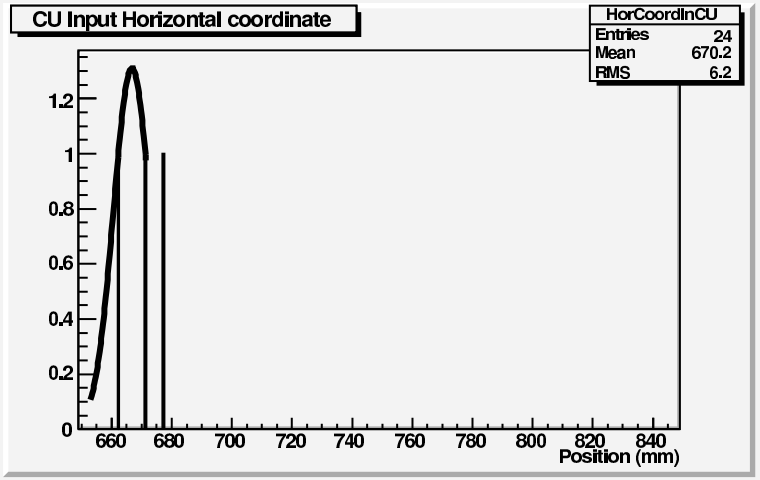

CU Input vertical coordinate
VertCoordInCU
Entries 2115
Mean 29.99
RMS 20.03
Position (mm)

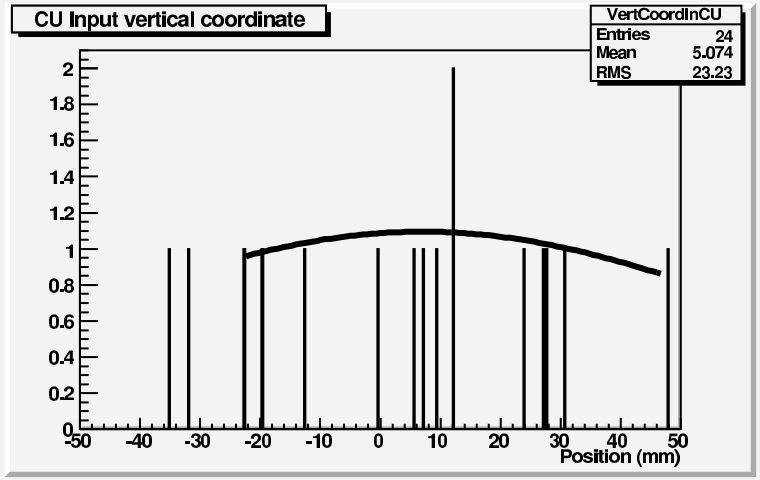

CU Input horizontal angle
HorAngleInCU
Entries 2115
Mean 0
RMS 0
Angle (rad)

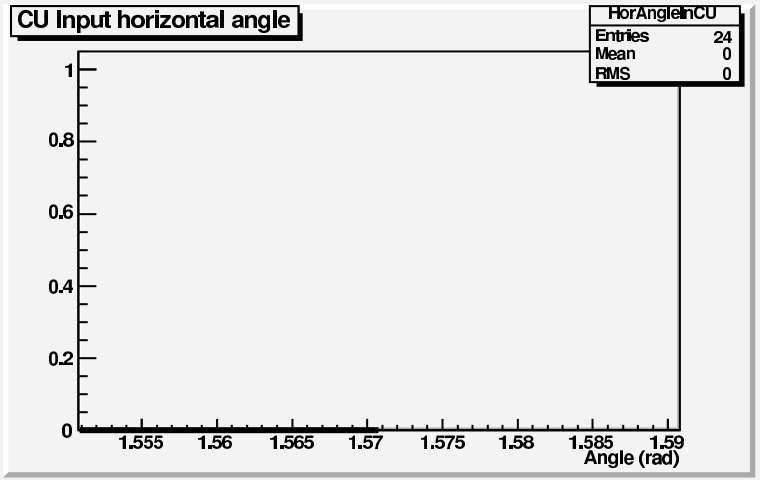

CU Input vertical angle
VertAngleInCU
Entries 2115
Mean 0.004079
RMS 0.004372
Angle (rad)

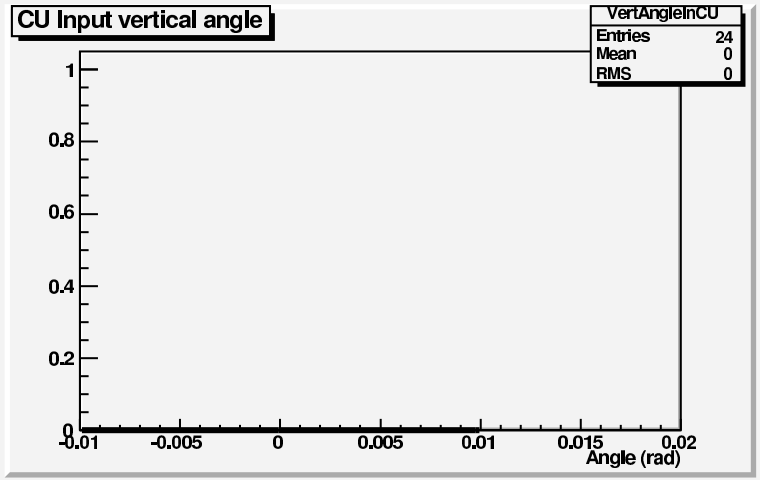

CU Input Beam Spot
SpotCoordInCU
Entries 2115
Mean x 337.1
Mean y 35.92
RMS x 32.23
RMS y 9.623
Vertical Position (mm)
Horizontal Position (mm)

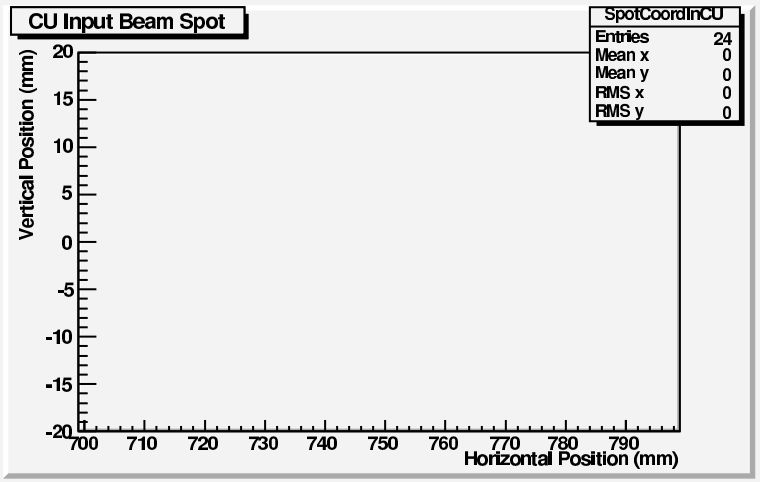

CU Input Beam Spot
SpotAngleInCU
Entries 2115
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

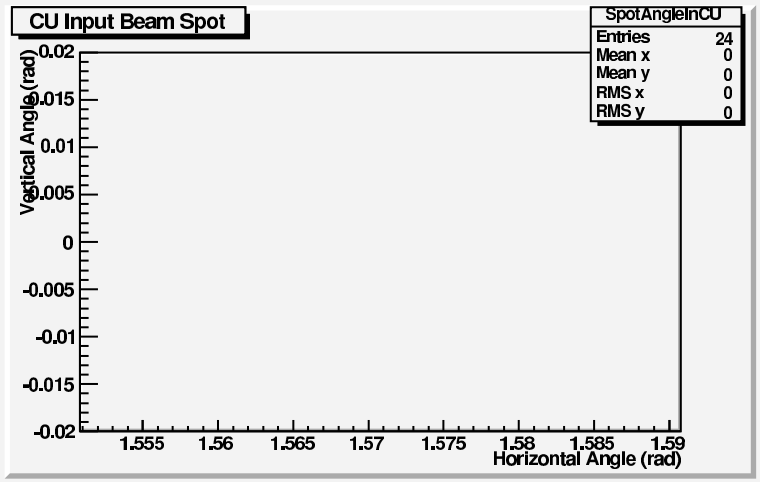

CU Input Horizontal coordinate
HorCoordInCU
Entries 24
Mean 670.2
RMS 6.2
Position (mm)

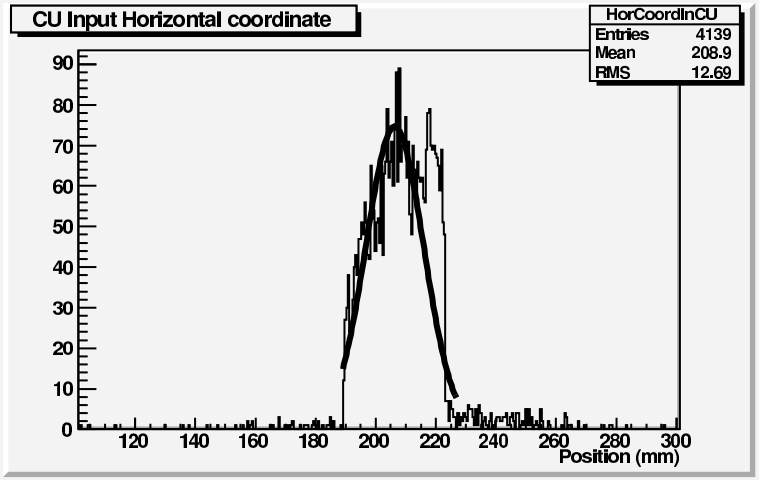

CU Input vertical coordinate
VertCoordInCU
Entries 24
Mean 5.074
RMS 23.23
Position (mm)

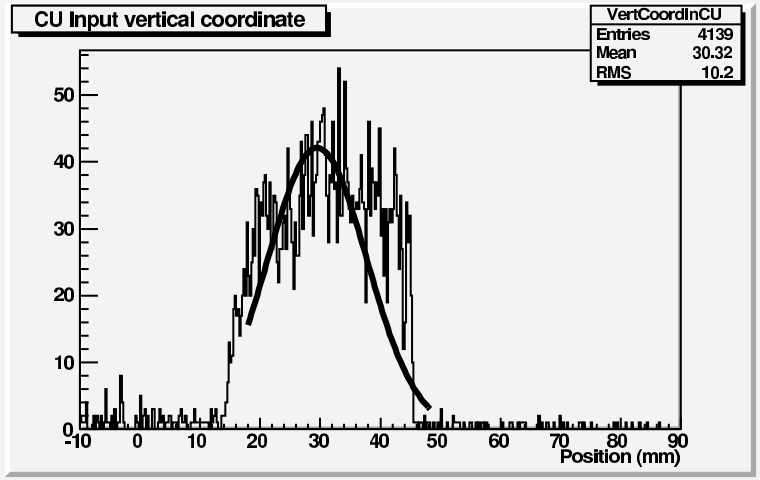

CU Input horizontal angle
HorAngleInCU
Entries 24
Mean 0
RMS 0
Angle (rad)

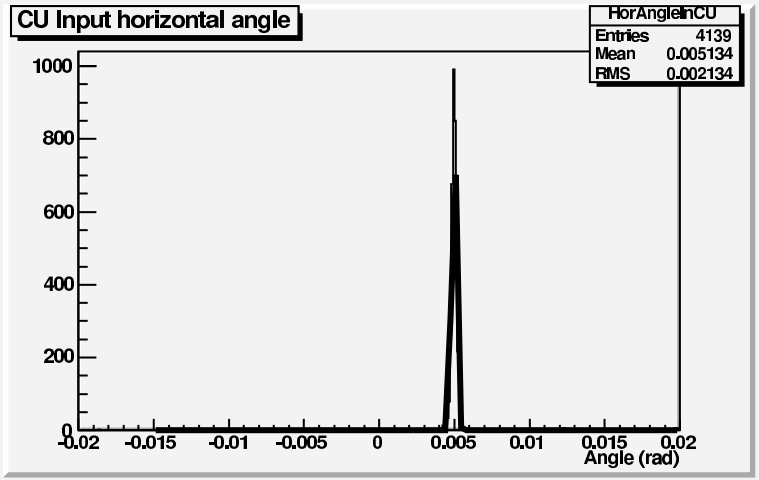

CU Input vertical angle
VertAngleInCU
Entries 24
Mean 0
RMS 0
Angle (rad)

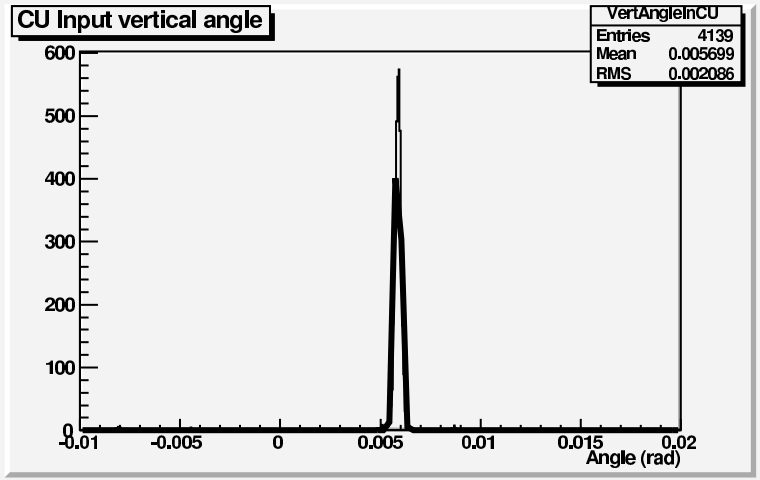

CU Input Beam Spot
SpotCoordInCU
Entries 24
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Position (mm)
Horizontal Position (mm)

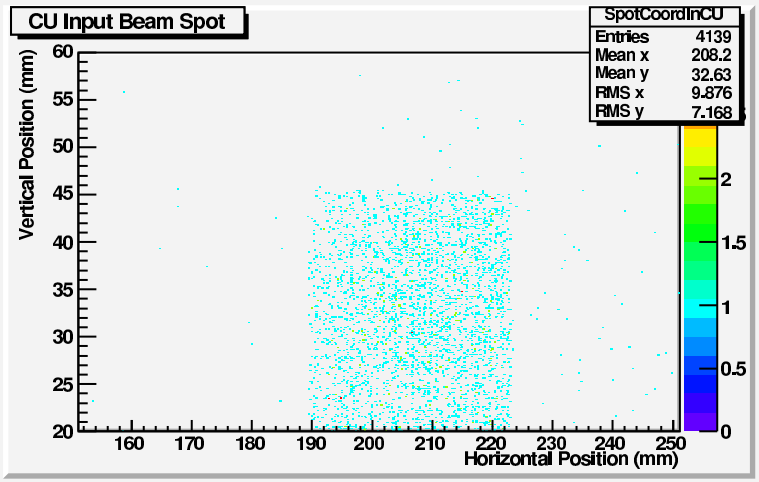

CU Input Beam Spot
SpotAngleInCU
Entries 24
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

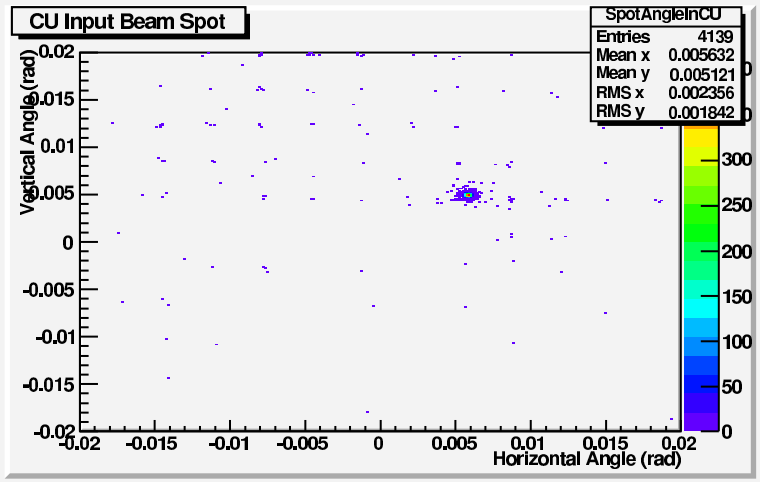

CU Input Horizontal coordinate
HorCoordInCU
Entries 4139
Mean 208.9
RMS 12.69
Position (mm)

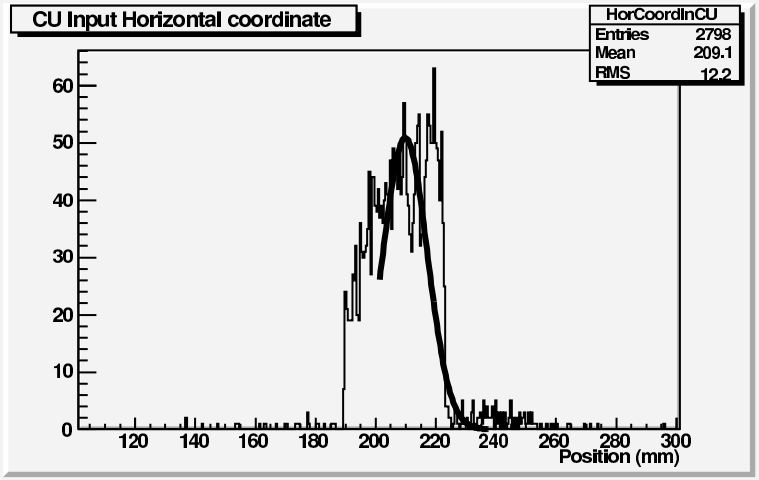

CU Input vertical coordinate
VertCoordInCU
Entries 4139
Mean 30.32
RMS 10.2
Position (mm)

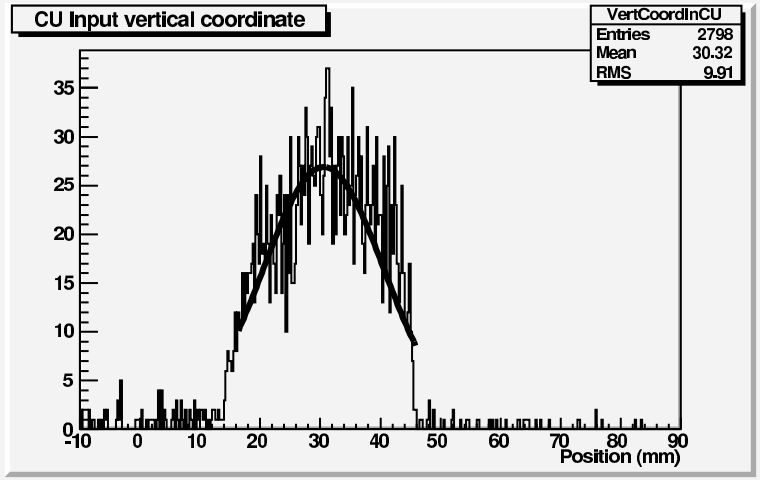

CU Input horizontal angle
HorAngleInCU
Entries 4139
Mean 0.005134
RMS 0.002134
Angle (rad)

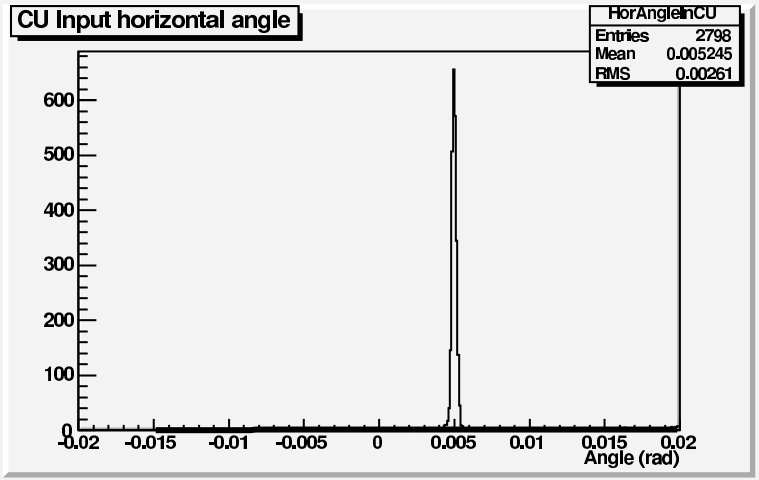

CU Input vertical angle
VertAngleInCU
Entries 4139
Mean 0.005699
RMS 0.002086
Angle (rad)

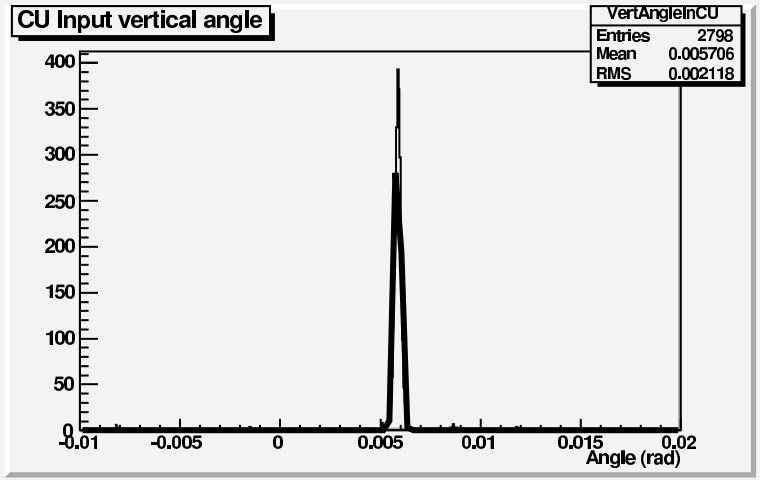

CU Input Beam Spot
SpotCoordInCU
Entries 4139
Mean x 208.2
Mean y 32.63
RMS x 9.876
RMS y 7.168
Vertical Position (mm)
Horizontal Position (mm)

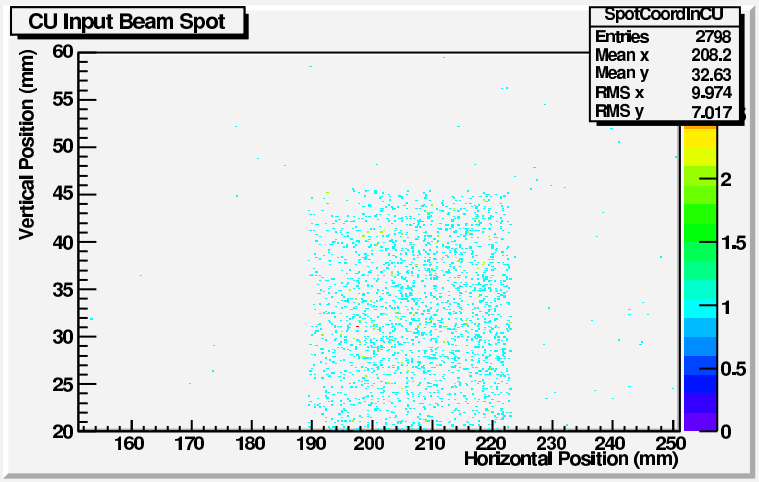

CU Input Beam Spot
SpotAngleInCU
Entries 4139
Mean x 0.005632
Mean y 0.005121
RMS x 0.002356
RMS y 0.001842
Vertical Angle (rad)
Horizontal Angle (rad)

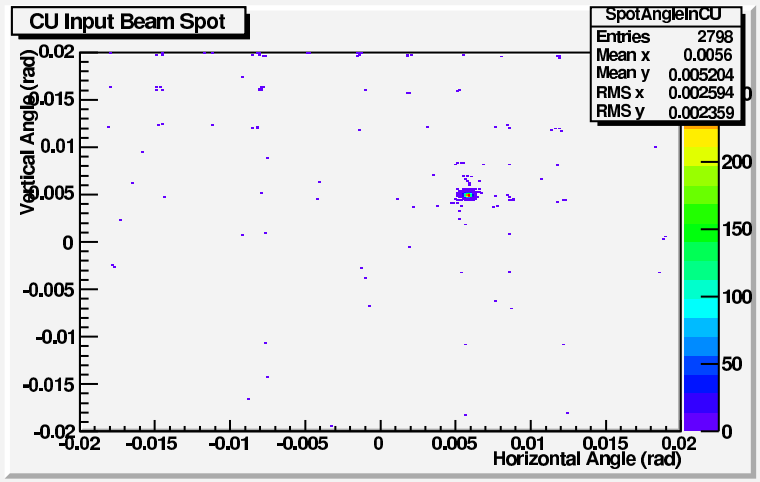

CU Input Horizontal coordinate
HorCoordInCU
Entries 2798
Mean 209.1
RMS 12.2
Position (mm)

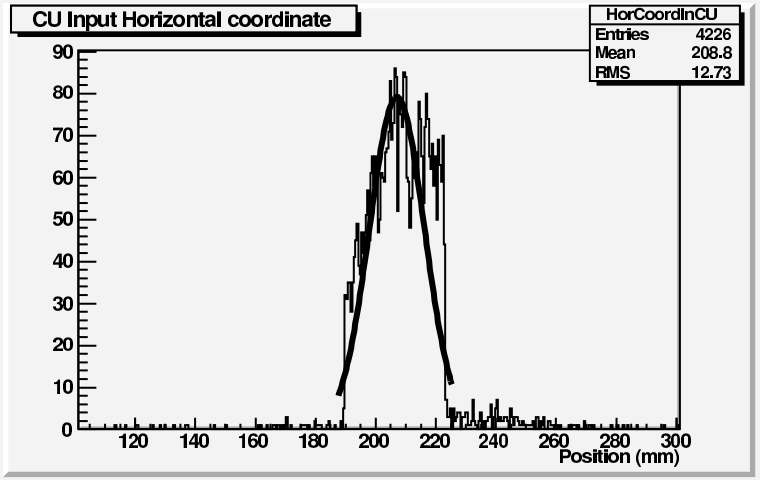

CU Input vertical coordinate
VertCoordInCU
Entries 2798
Mean 30.32
RMS 9.91
Position (mm)

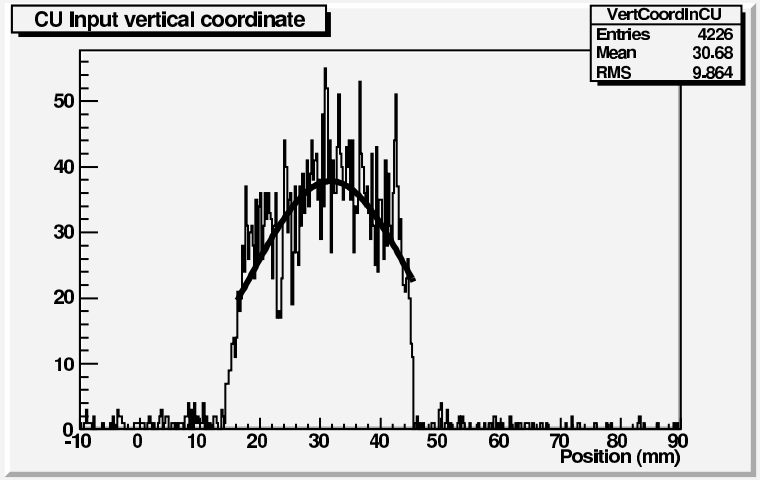

CU Input horizontal angle
HorAngleInCU
Entries 2798
Mean 0.005245
RMS 0.00261
Angle (rad)

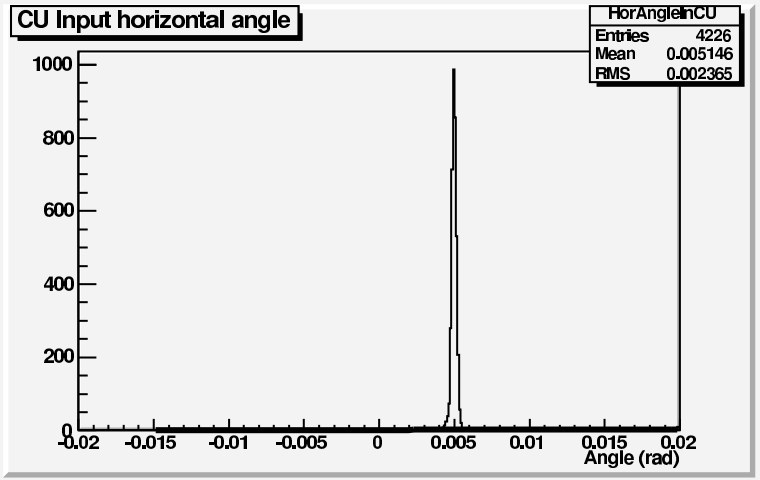

CU Input vertical angle
VertAngleInCU
Entries 2798
Mean 0.005706
RMS 0.002118
Angle (rad)

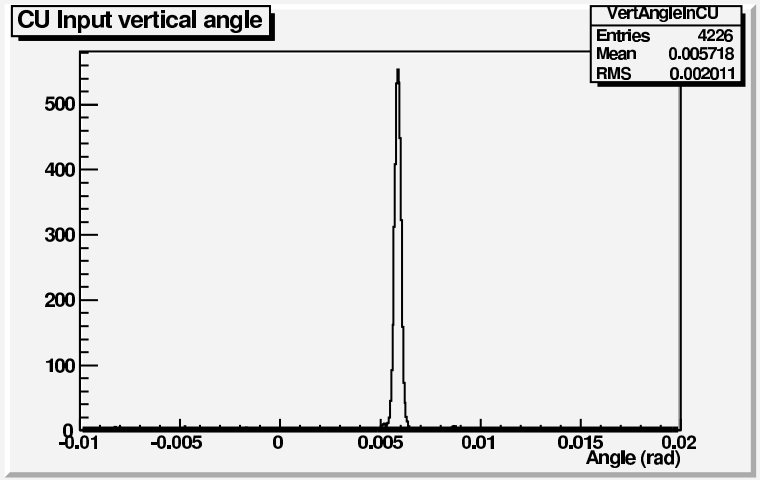

CU Input Beam Spot
SpotCoordInCU
Entries 2798
Mean x 208.2
Mean y 32.63
RMS x 9.974
RMS y 7.017
Vertical Position (mm)
Horizontal Position (mm)

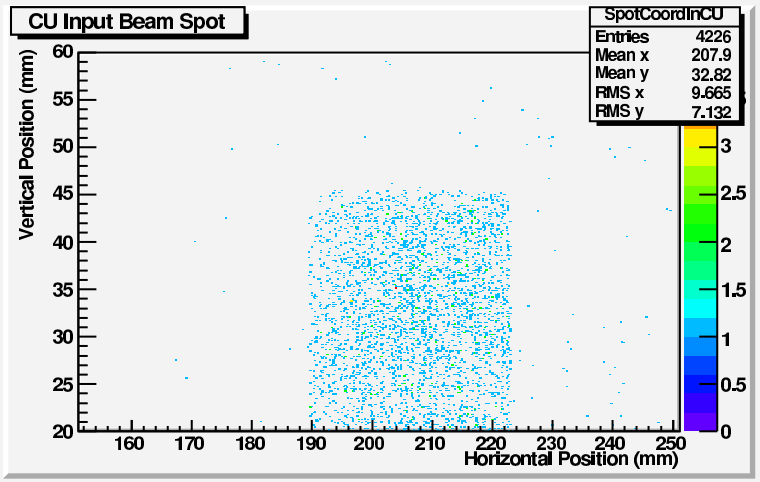

CU Input Beam Spot
SpotAngleInCU
Entries 2798
Mean x 0.0056
Mean y 0.005204
RMS x 0.002594
RMS y 0.002359
Vertical Angle (rad)
Horizontal Angle (rad)

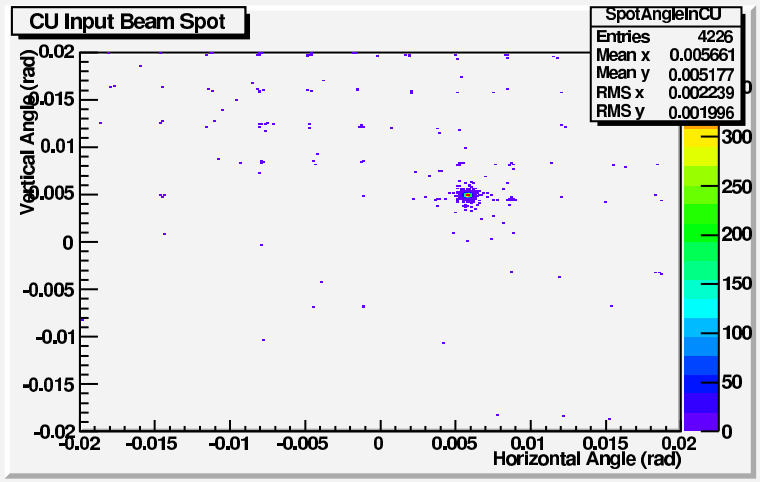

CU Input Horizontal coordinate
HorCoordInCU
Entries 4226
Mean 208.8
RMS 12.73
Position (mm)

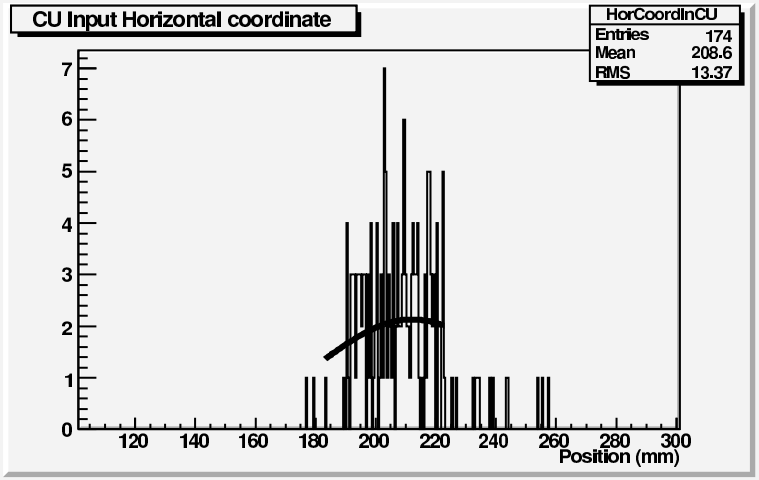

CU Input vertical coordinate
VertCoordInCU
Entries 4226
Mean 30.68
RMS 9.864
Position (mm)

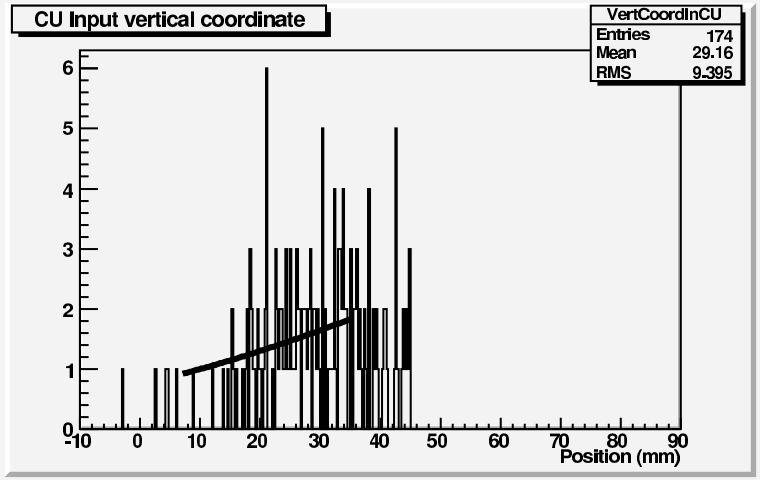

CU Input horizontal angle
HorAngleInCU
Entries 4226
Mean 0.005146
RMS 0.002365
Angle (rad)

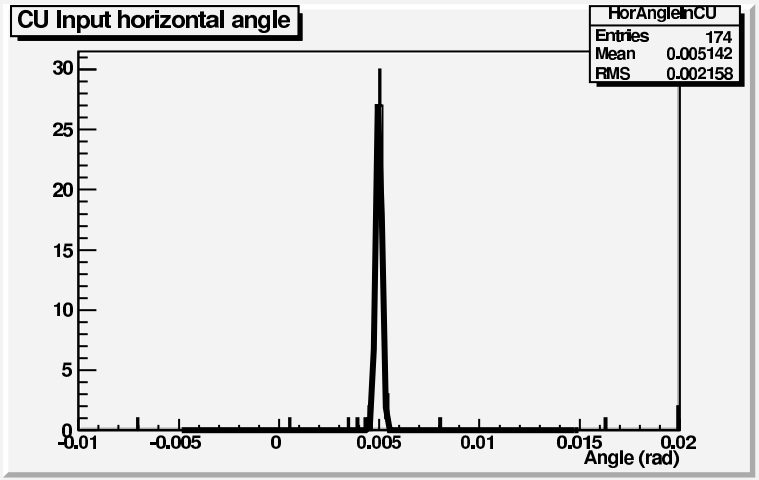

CU Input vertical angle
VertAngleInCU
Entries 4226
Mean 0.005718
RMS 0.002011
Angle (rad)

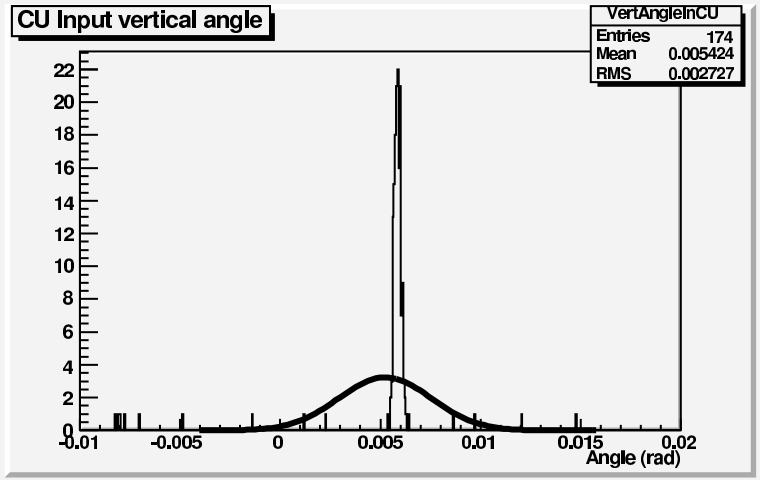

CU Input Beam Spot
SpotCoordInCU
Entries 4226
Mean x 207.9
Mean y 32.82
RMS x 9.665
RMS y 7.132
Vertical Position (mm)
Horizontal Position (mm)

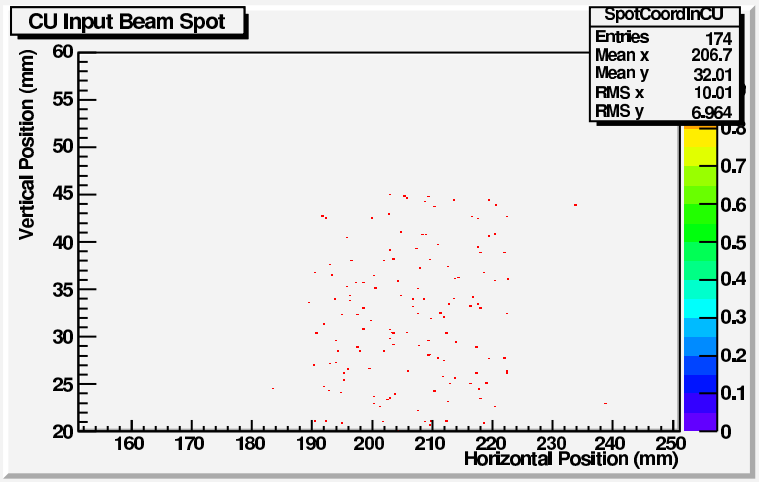

CU Input Beam Spot
SpotAngleInCU
Entries 4226
Mean x 0.005661
Mean y 0.005177
RMS x 0.002239
RMS y 0.001996
Vertical Angle (rad)
Horizontal Angle (rad)

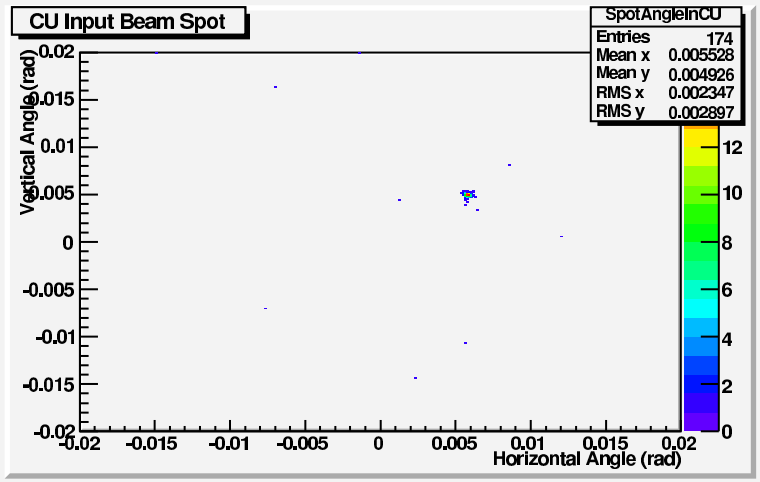

CU Input Horizontal coordinate
HorCoordInCU
Entries 174
Mean 208.6
RMS 13.37
Position (mm)

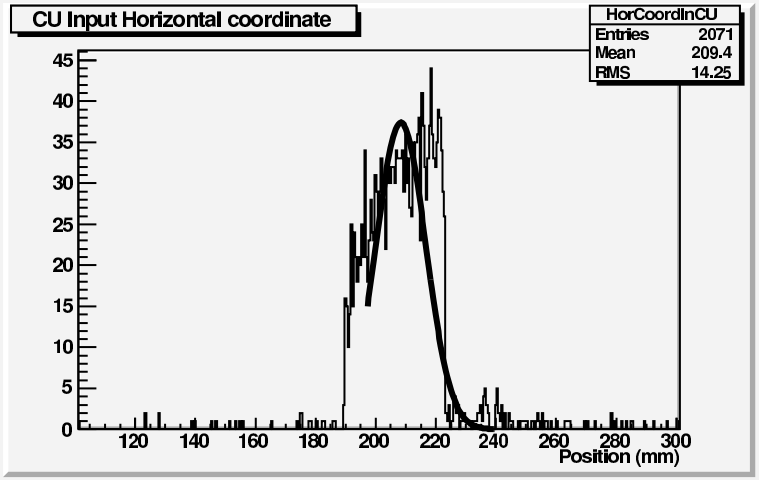

CU Input vertical coordinate
VertCoordInCU
Entries 174
Mean 29.16
RMS 9.395
Position (mm)

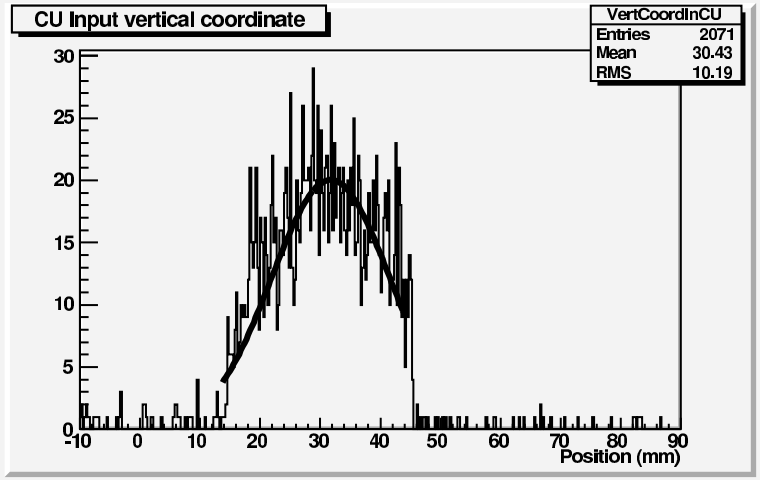

CU Input horizontal angle
HorAngleInCU
Entries 174
Mean 0.005142
RMS 0.002158
Angle (rad)

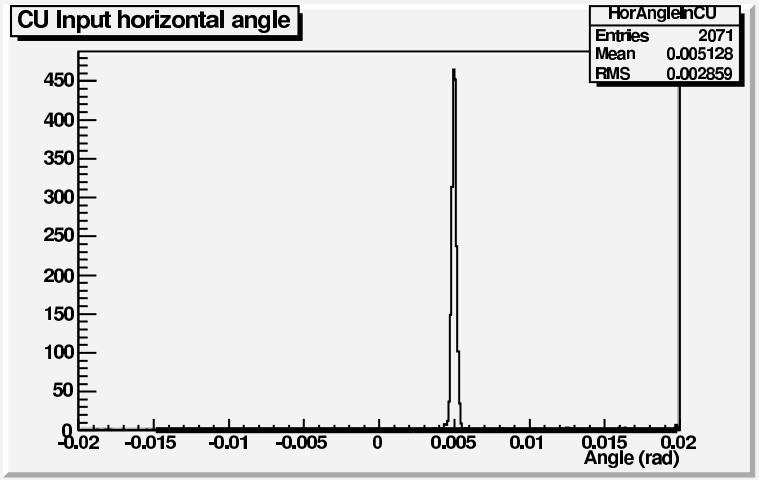

CU Input vertical angle
VertAngleInCU
Entries 174
Mean 0.005424
RMS 0.002727
Angle (rad)

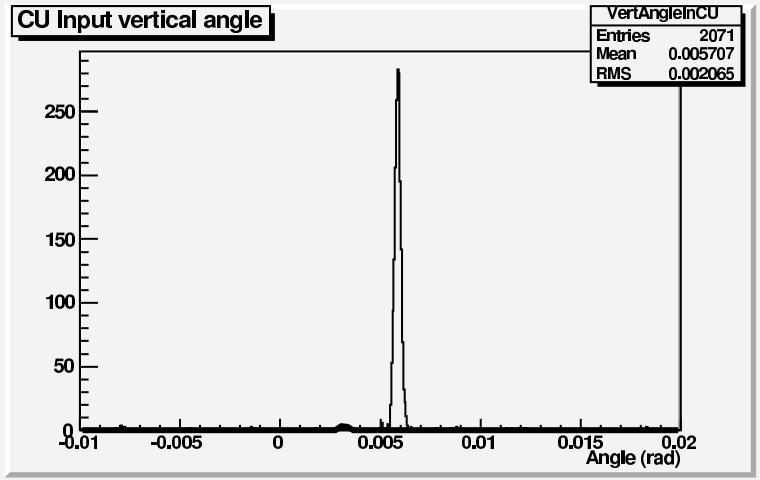

CU Input Beam Spot
SpotCoordInCU
Entries 174
Mean x 206.7
Mean y 32.01
RMS x 10.01
RMS y 6.964
Vertical Position (mm)
Horizontal Position (mm)

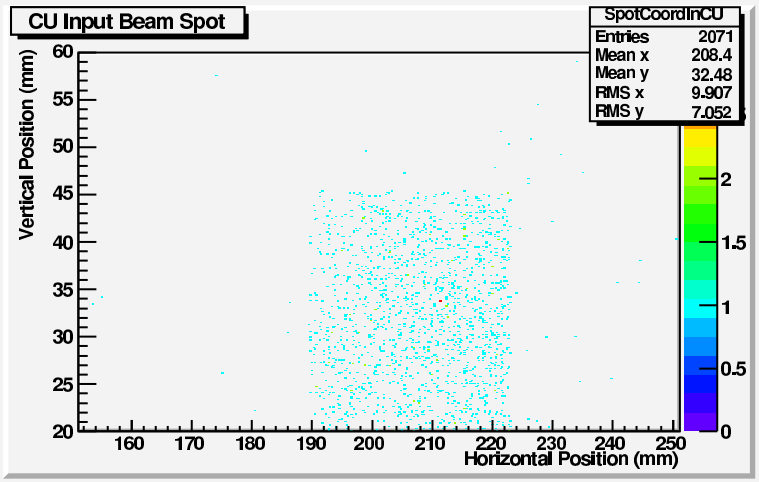

CU Input Beam Spot
SpotAngleInCU
Entries 174
Mean x 0.005528
Mean y 0.004926
RMS x 0.002347
RMS y 0.002897
Vertical Angle (rad)
Horizontal Angle (rad)

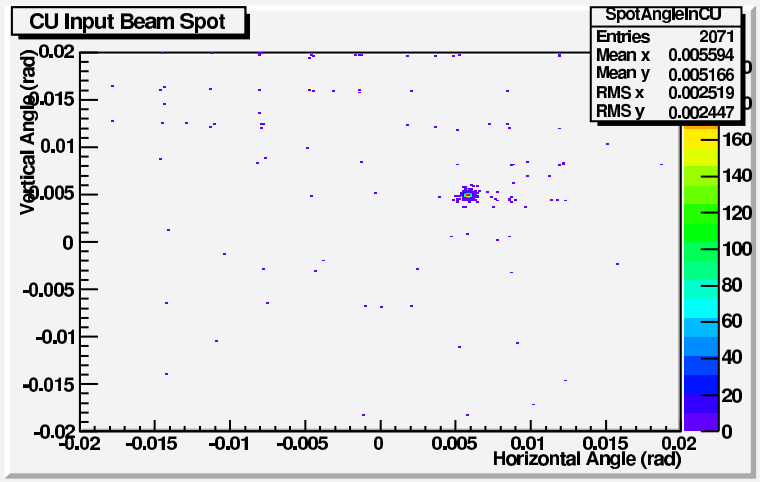

CU Input Horizontal coordinate
HorCoordInCU
Entries 2071
Mean 209.4
RMS 14.25
Position (mm)

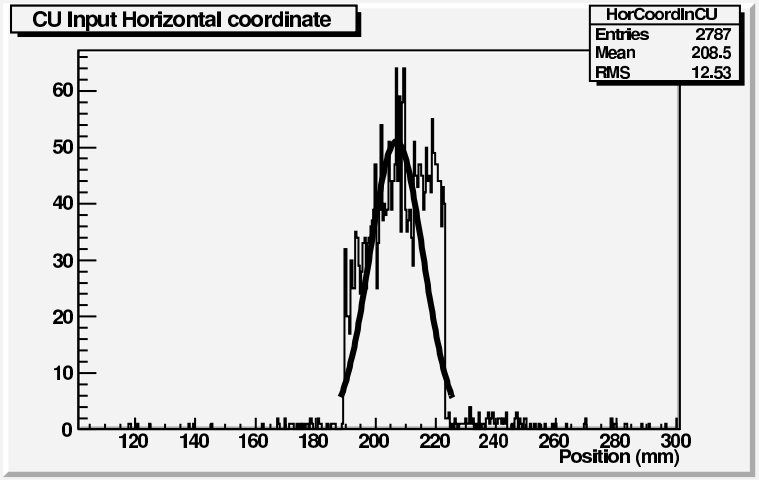

CU Input vertical coordinate
VertCoordInCU
Entries 2071
Mean 30.43
RMS 10.19
Position (mm)

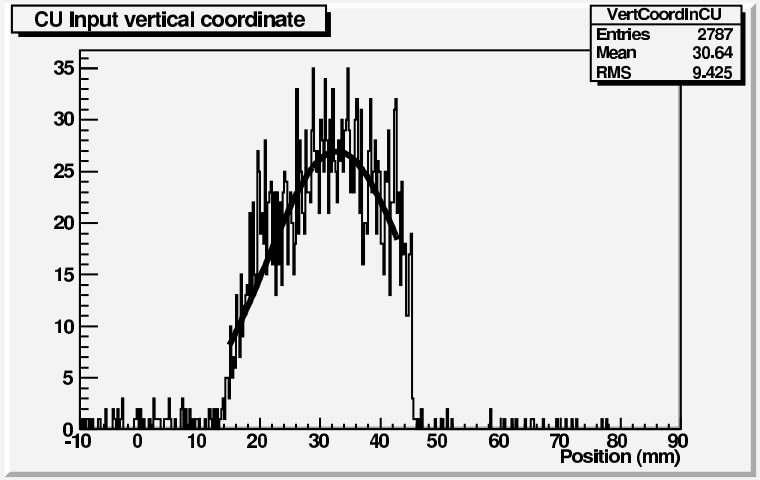

CU Input horizontal angle
HorAngleInCU
Entries 2071
Mean 0.005128
RMS 0.002859
Angle (rad)

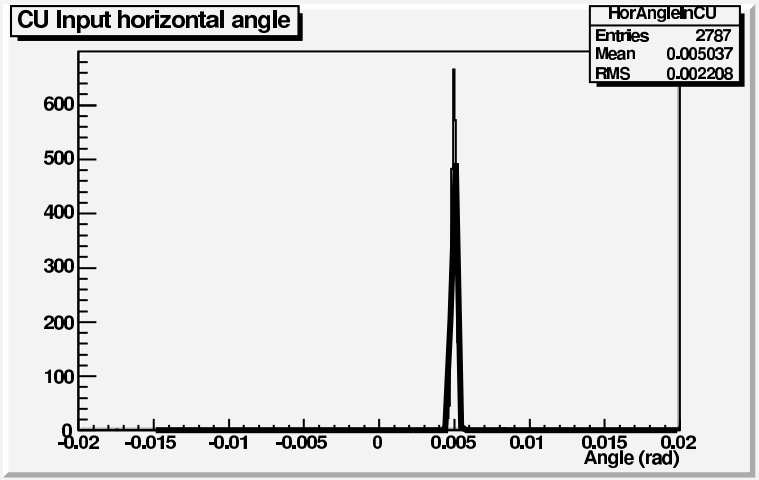

CU Input vertical angle
VertAngleInCU
Entries 2071
Mean 0.005707
RMS 0.002065
Angle (rad)

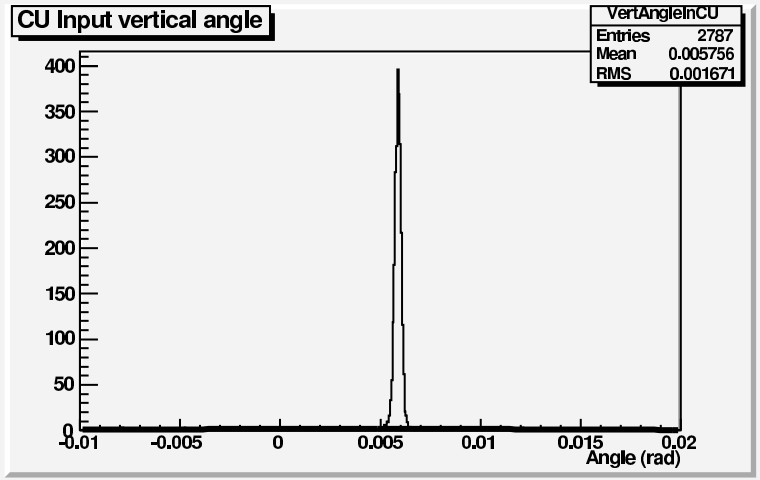

CU Input Beam Spot
SpotCoordInCU
Entries 2071
Mean x 208.4
Mean y 32.48
RMS x 9.907
RMS y 7.052
Vertical Position (mm)
Horizontal Position (mm)

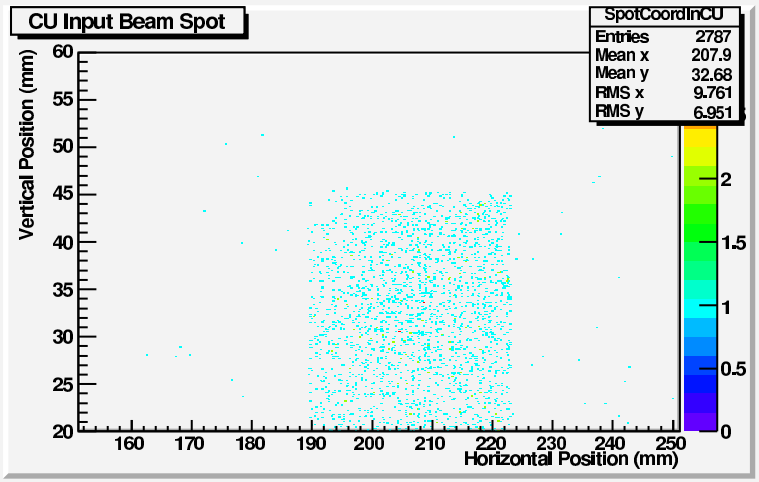

CU Input Beam Spot
SpotAngleInCU
Entries 2071
Mean x 0.005594
Mean y 0.005166
RMS x 0.002519
RMS y 0.002447
Vertical Angle (rad)
Horizontal Angle (rad)

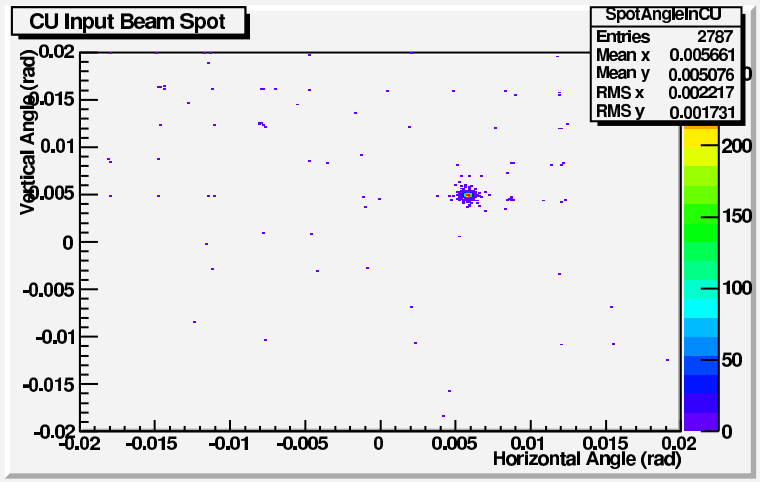

CU Input Horizontal coordinate
HorCoordInCU
Entries 2787
Mean 208.5
RMS 12.53
Position (mm)

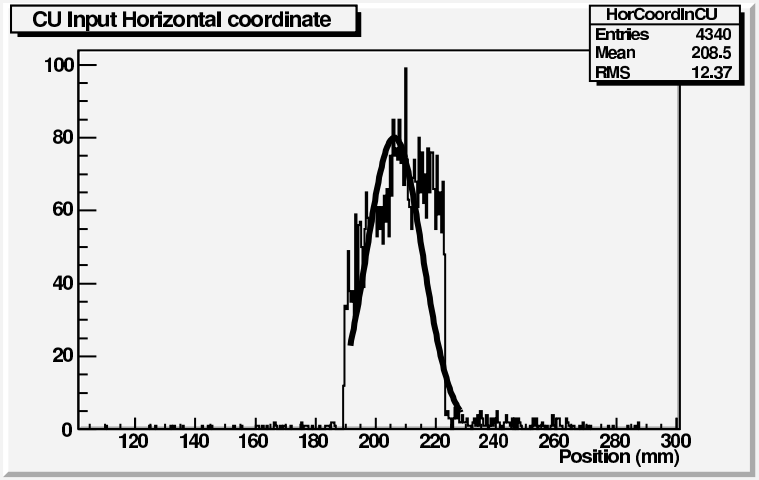

CU Input vertical coordinate
VertCoordInCU
Entries 2787
Mean 30.64
RMS 9.425
Position (mm)

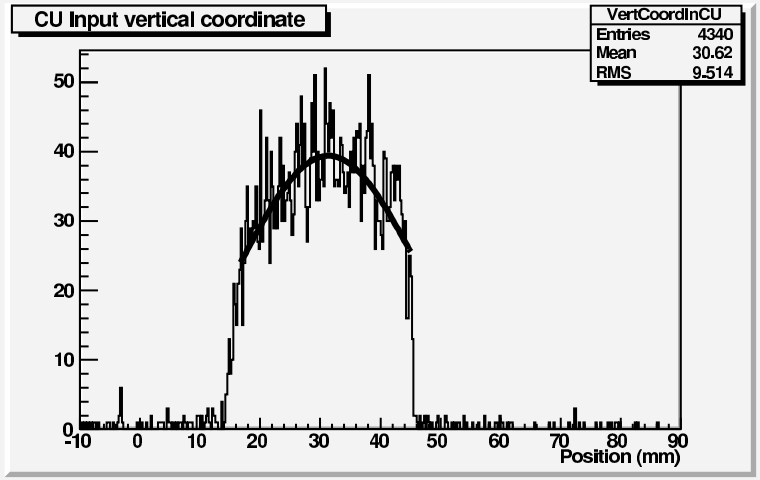

CU Input horizontal angle
HorAngleInCU
Entries 2787
Mean 0.005037
RMS 0.002208
Angle (rad)

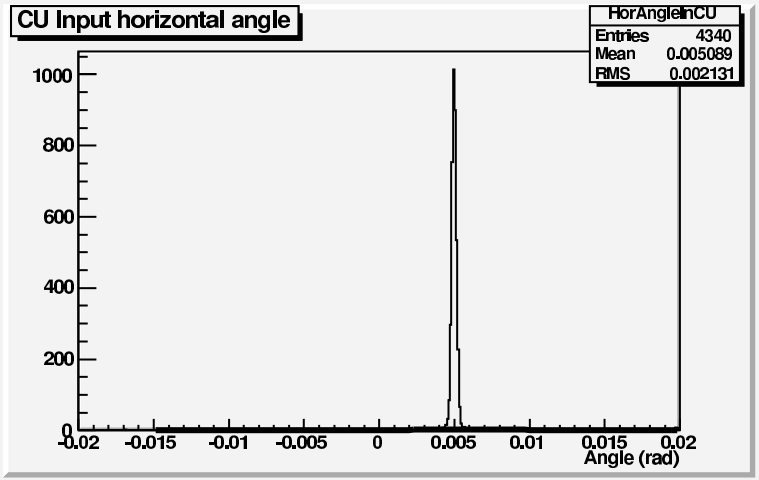

CU Input vertical angle
VertAngleInCU
Entries 2787
Mean 0.005756
RMS 0.001671
Angle (rad)

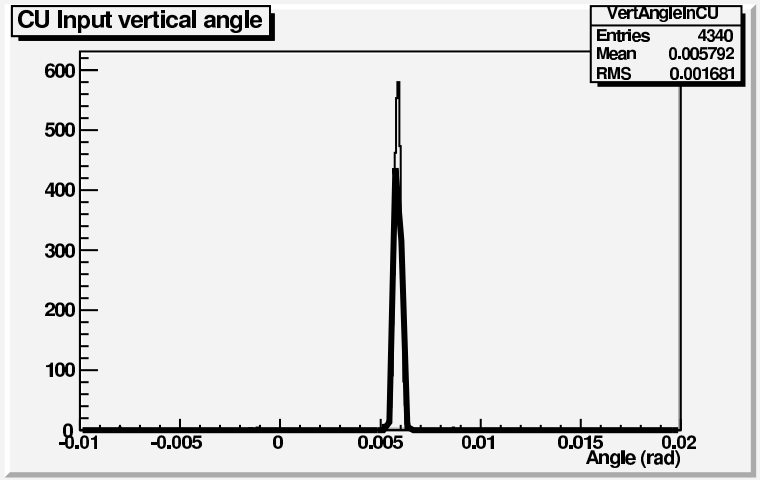

CU Input Beam Spot
SpotCoordInCU
Entries 2787
Mean x 207.9
Mean y 32.68
RMS x 9.761
RMS y 6.951
Vertical Position (mm)
Horizontal Position (mm)

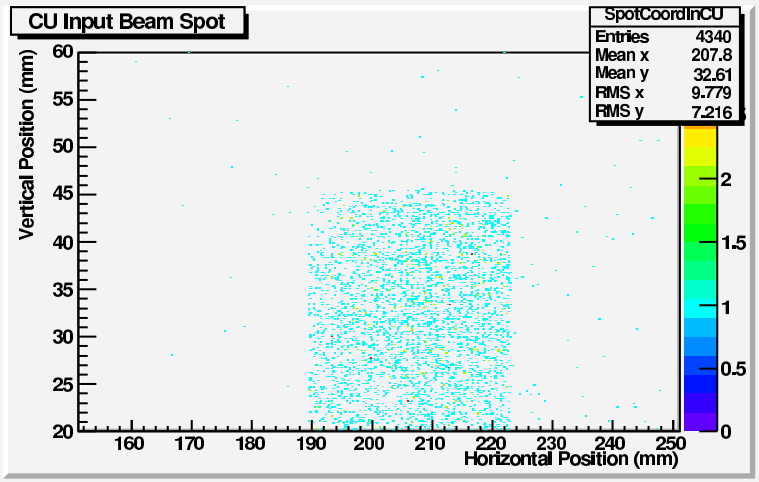

CU Input Beam Spot
SpotAngleInCU
Entries 2787
Mean x 0.005661
Mean y 0.005076
RMS x 0.002217
RMS y 0.001731
Vertical Angle (rad)
Horizontal Angle (rad)

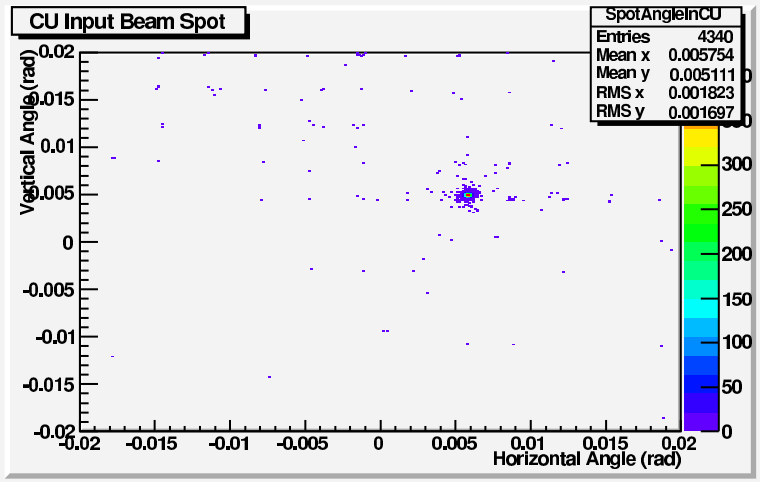

CU Input Horizontal coordinate
HorCoordInCU
Entries 4340
Mean 208.5
RMS 12.37
Position (mm)

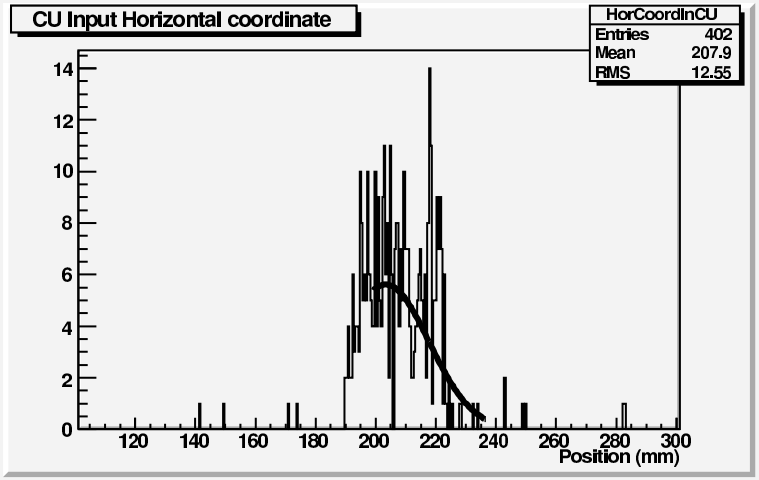

CU Input vertical coordinate
VertCoordInCU
Entries 4340
Mean 30.62
RMS 9.514
Position (mm)

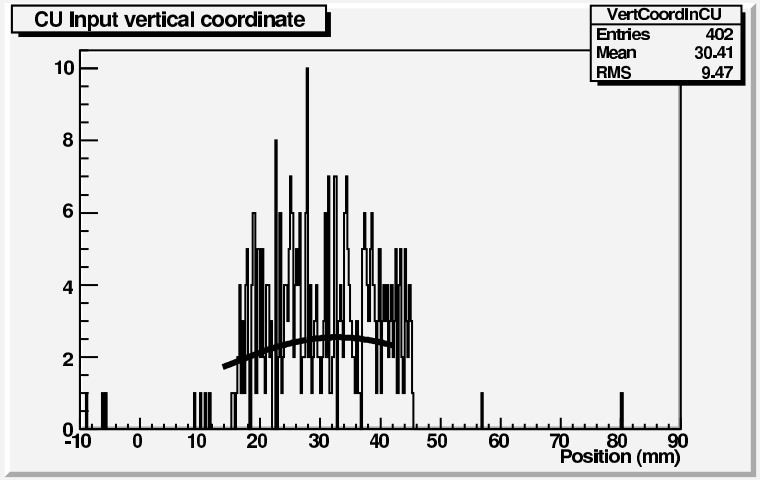

CU Input horizontal angle
HorAngleInCU
Entries 4340
Mean 0.005089
RMS 0.002131
Angle (rad)

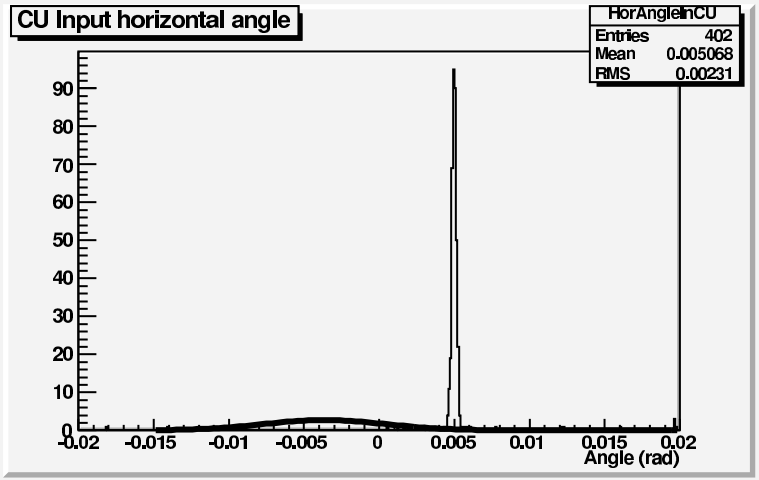

CU Input vertical angle
VertAngleInCU
Entries 4340
Mean 0.005792
RMS 0.001681
Angle (rad)

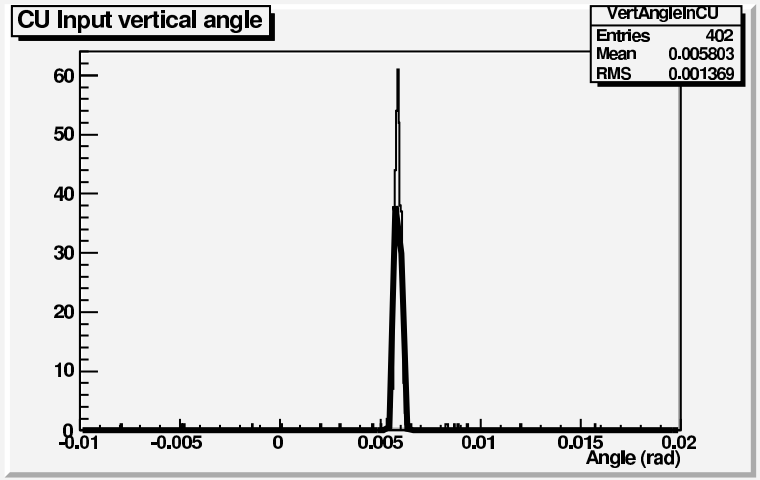

CU Input Beam Spot
SpotCoordInCU
Entries 4340
Mean x 207.8
Mean y 32.61
RMS x 9.779
RMS y 7.216
Vertical Position (mm)
Horizontal Position (mm)

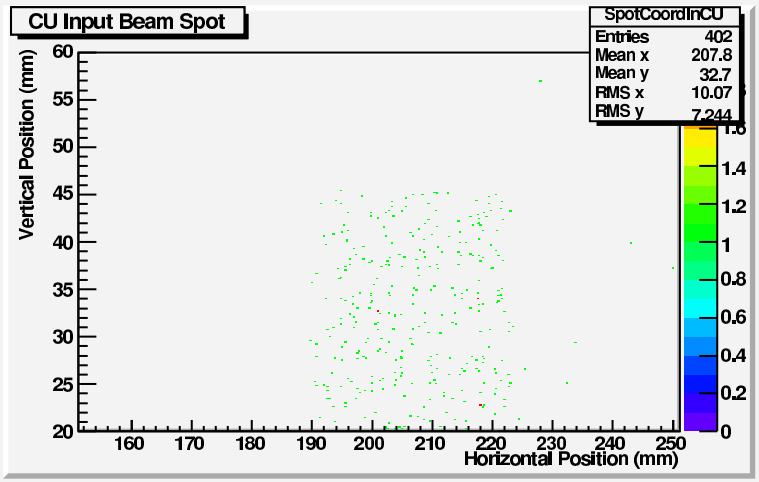

CU Input Beam Spot
SpotAngleInCU
Entries 4340
Mean x 0.005754
Mean y 0.005111
RMS x 0.001823
RMS y 0.001697
Vertical Angle (rad)
Horizontal Angle (rad)

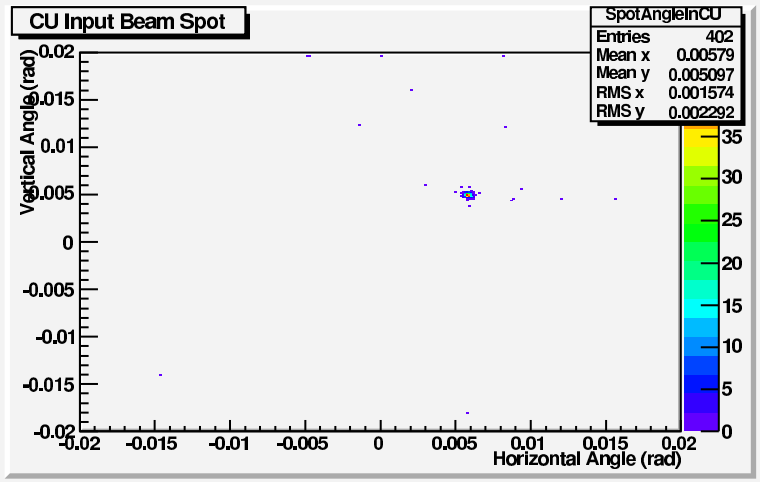

CU Input Horizontal coordinate
HorCoordInCU
Entries 402
Mean 207.9
RMS 12.55
Position (mm)

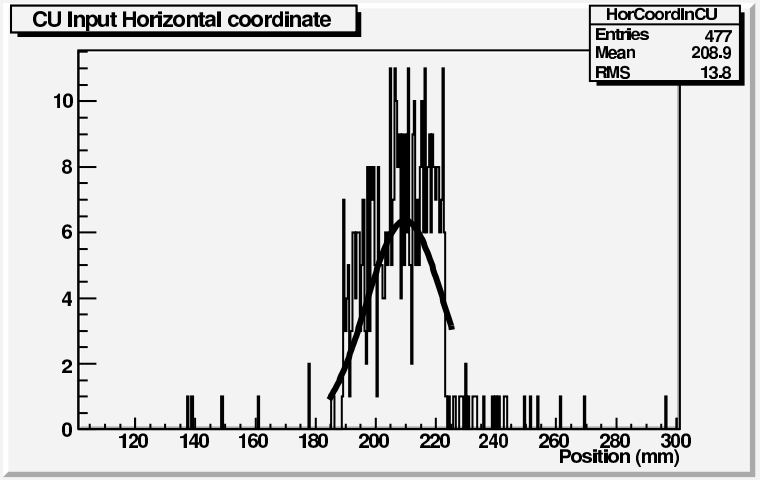

CU Input vertical coordinate
VertCoordInCU
Entries 402
Mean 30.41
RMS 9.47
Position (mm)

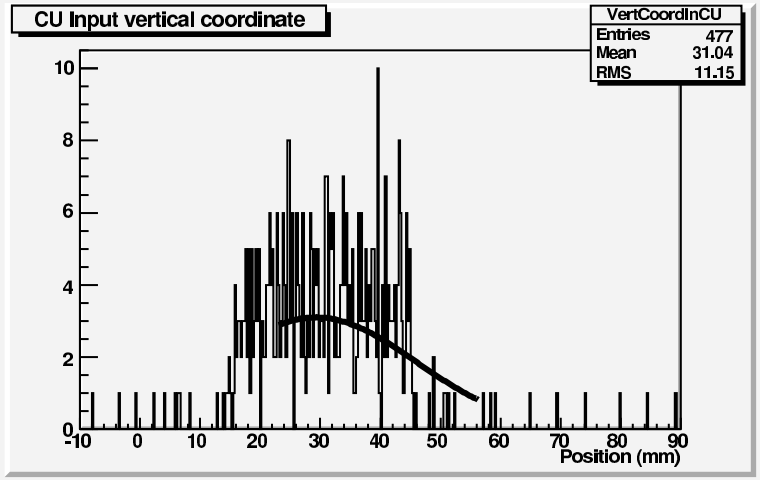

CU Input horizontal angle
HorAngleInCU
Entries 402
Mean 0.005068
RMS 0.00231
Angle (rad)

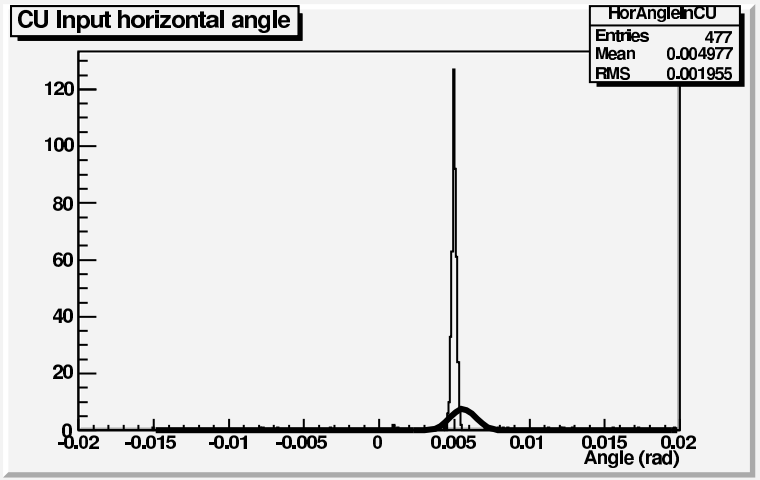

CU Input vertical angle
VertAngleInCU
Entries 402
Mean 0.005803
RMS 0.001369
Angle (rad)

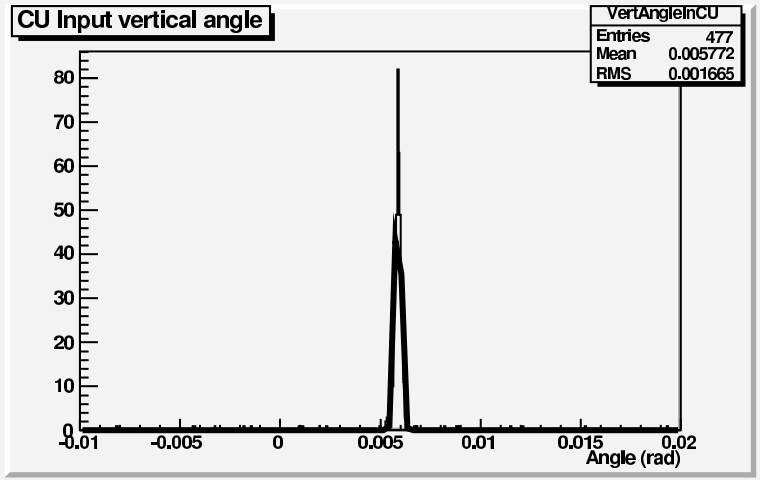

CU Input Beam Spot
SpotCoordInCU
Entries 402
Mean x 207.8
Mean y 32.7
RMS x 10.07
RMS y 7.244
Vertical Position (mm)
Horizontal Position (mm)

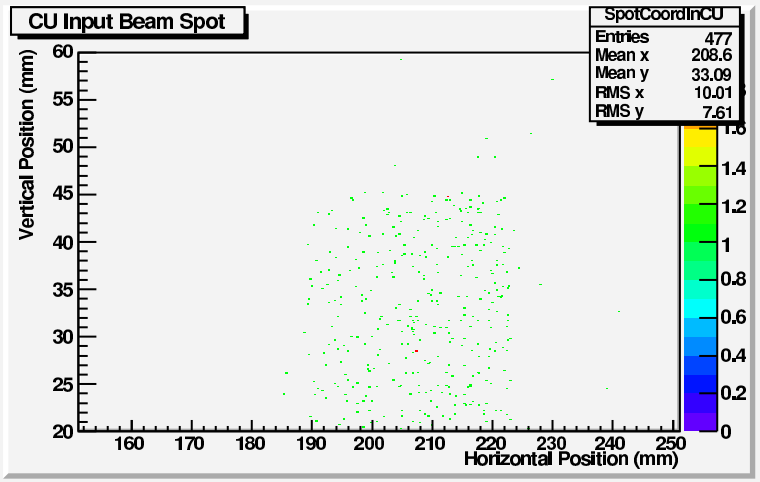

CU Input Beam Spot
SpotAngleInCU
Entries 402
Mean x 0.00579
Mean y 0.005097
RMS x 0.001574
RMS y 0.002292
Vertical Angle (rad)
Horizontal Angle (rad)

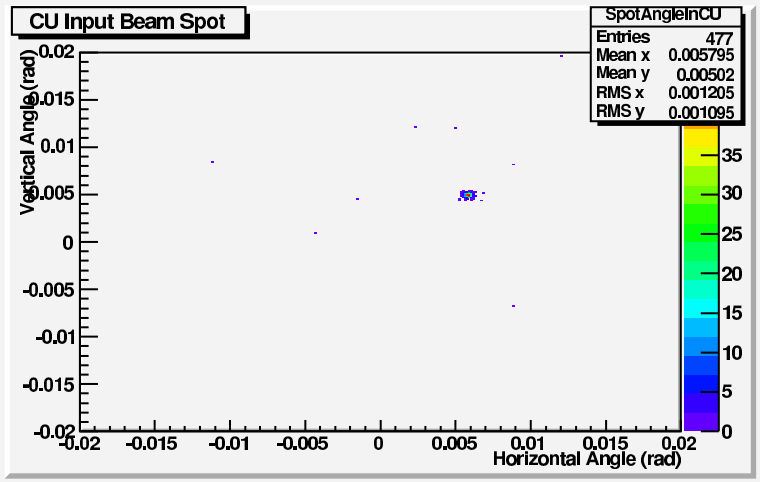

CU Input Horizontal coordinate
HorCoordInCU
Entries 477
Mean 208.9
RMS 13.8
Position (mm)

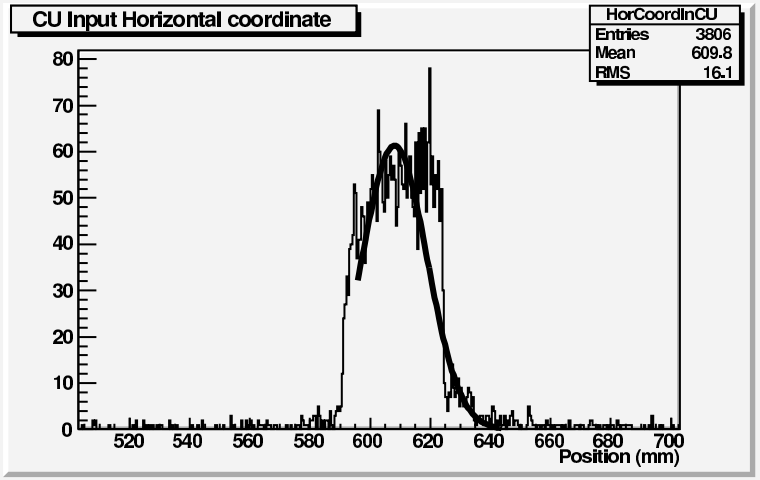

CU Input vertical coordinate
VertCoordInCU
Entries 477
Mean 31.04
RMS 11.15
Position (mm)

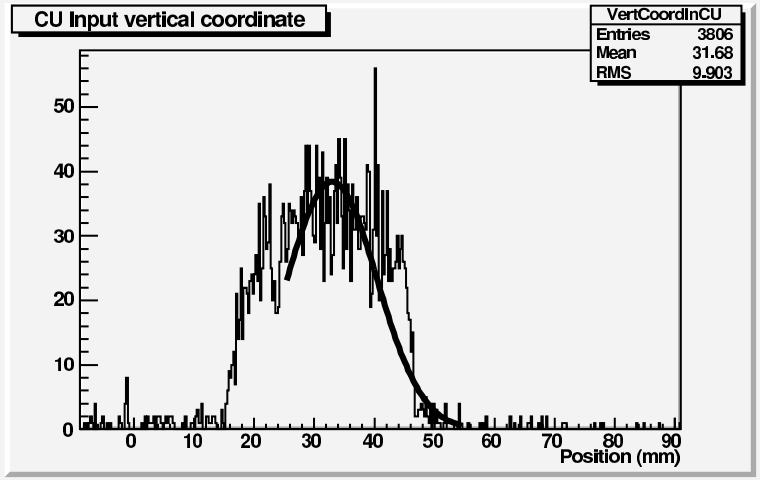

CU Input horizontal angle
HorAngleInCU
Entries 477
Mean 0.004977
RMS 0.001955
Angle (rad)

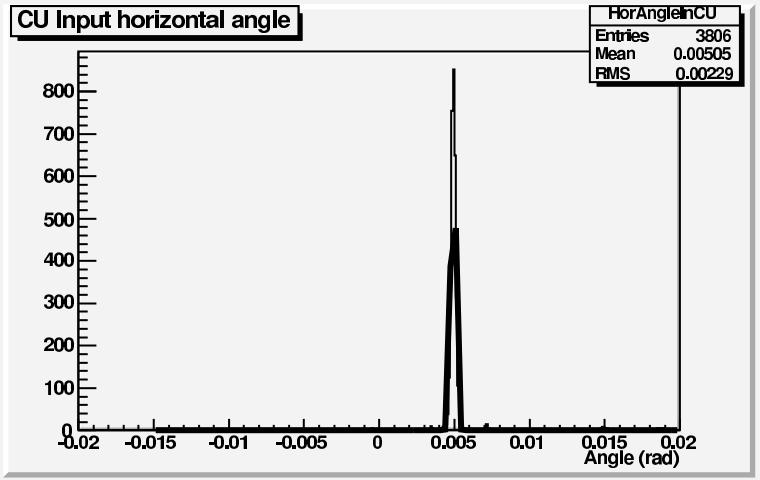

CU Input vertical angle
VertAngleInCU
Entries 477
Mean 0.005772
RMS 0.001665
Angle (rad)

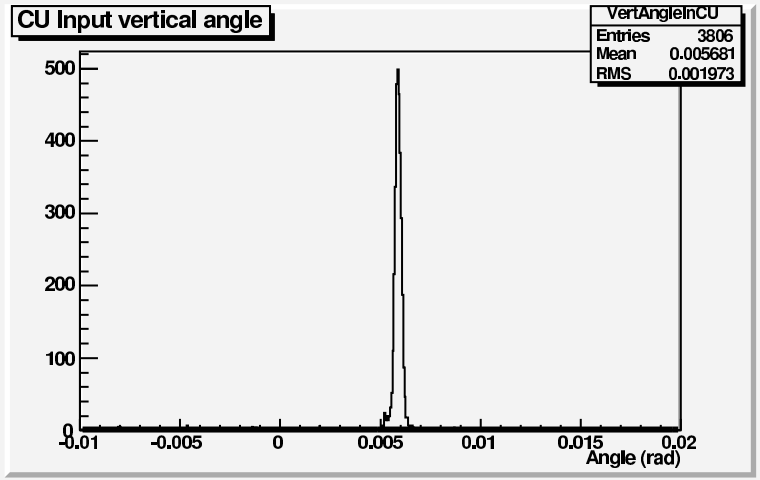

CU Input Beam Spot
SpotCoordInCU
Entries 477
Mean x 208.6
Mean y 33.09
RMS x 10.01
RMS y 7.61
Vertical Position (mm)
Horizontal Position (mm)

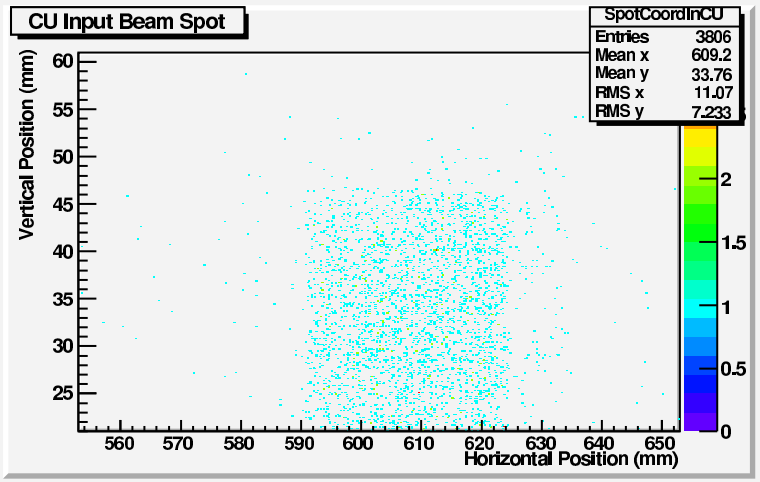

CU Input Beam Spot
SpotAngleInCU
Entries 477
Mean x 0.005795
Mean y 0.00502
RMS x 0.001205
RMS y 0.001095
Vertical Angle (rad)
Horizontal Angle (rad)

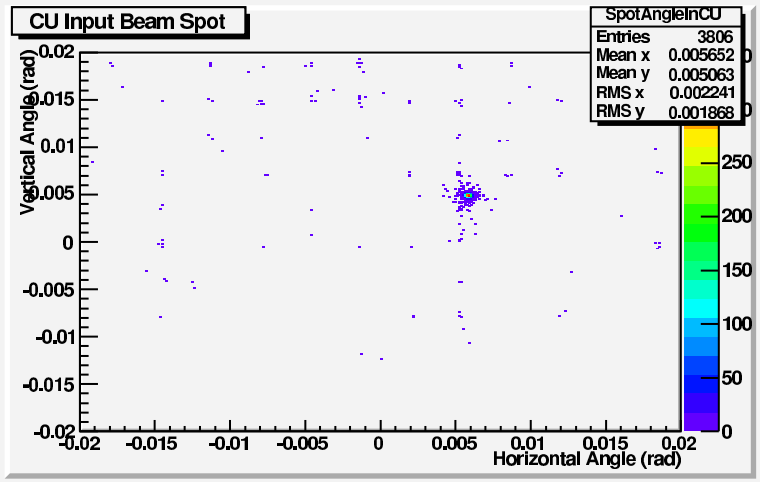

CU Input Horizontal coordinate
HorCoordInCU
Entries 3806
Mean 609.8
RMS 16.1
Position (mm)

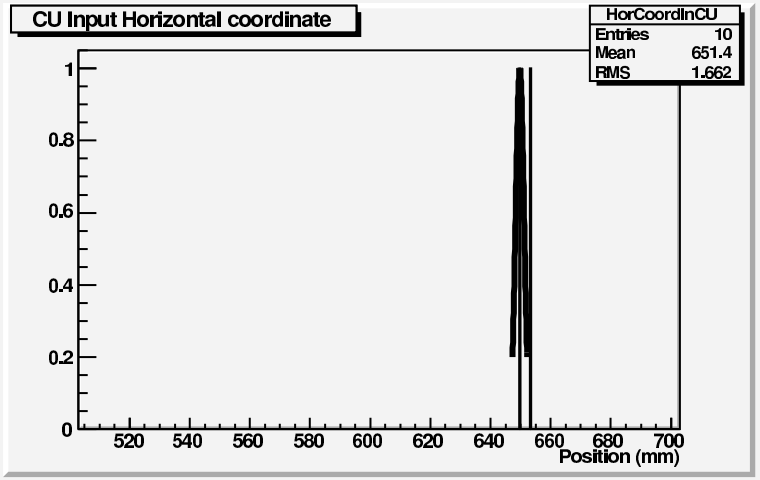

CU Input vertical coordinate
VertCoordInCU
Entries 3806
Mean 31.68
RMS 9.903
Position (mm)

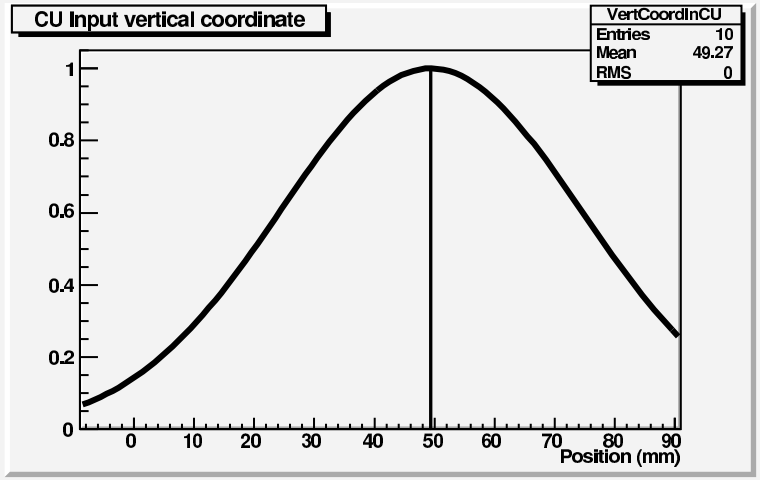

CU Input horizontal angle
HorAngleInCU
Entries 3806
Mean 0.00505
RMS 0.00229
Angle (rad)

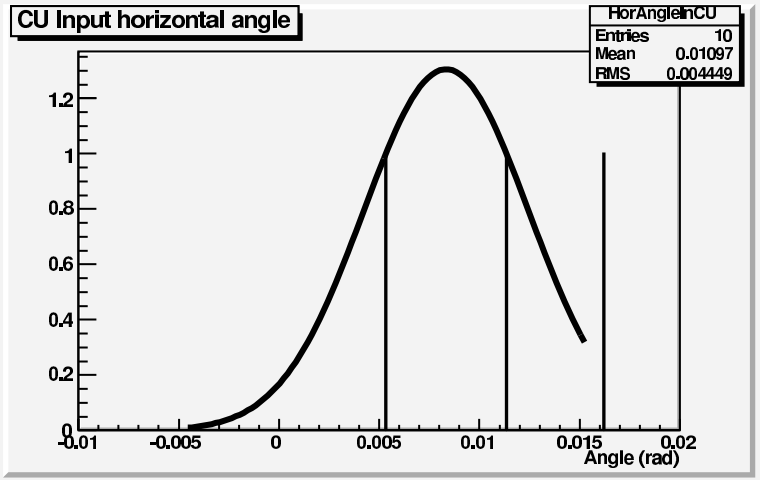

CU Input vertical angle
VertAngleInCU
Entries 3806
Mean 0.005681
RMS 0.001973
Angle (rad)

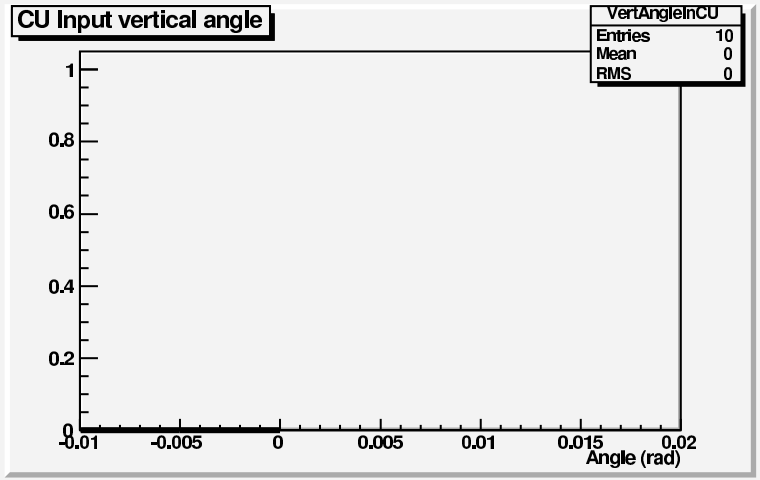

CU Input Beam Spot
SpotCoordInCU
Entries 3806
Mean x 609.2
Mean y 33.76
RMS x 11.07
RMS y 7.233
Vertical Position (mm)
Horizontal Position (mm)

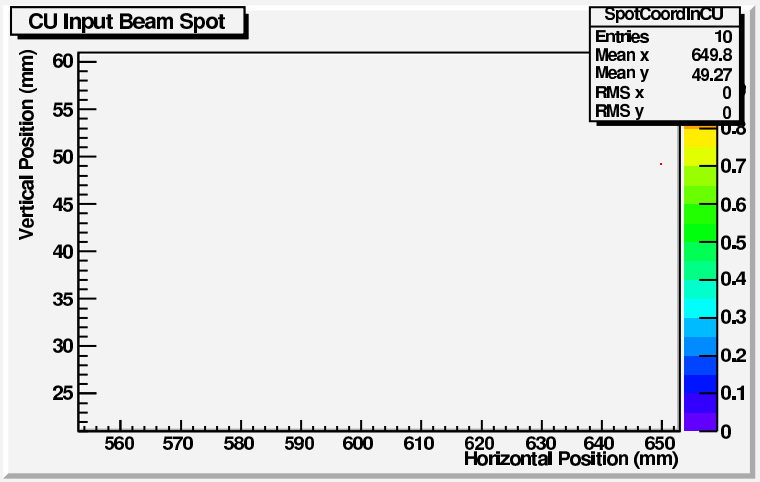

CU Input Beam Spot
SpotAngleInCU
Entries 3806
Mean x 0.005652
Mean y 0.005063
RMS x 0.002241
RMS y 0.001868
Vertical Angle (rad)
Horizontal Angle (rad)

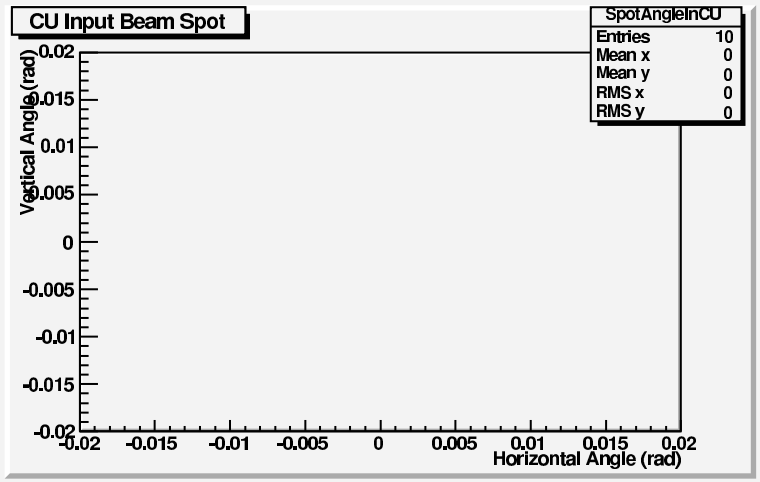

CU Input Horizontal coordinate
HorCoordInCU
Entries 10
Mean 651.4
RMS 1.662
Position (mm)

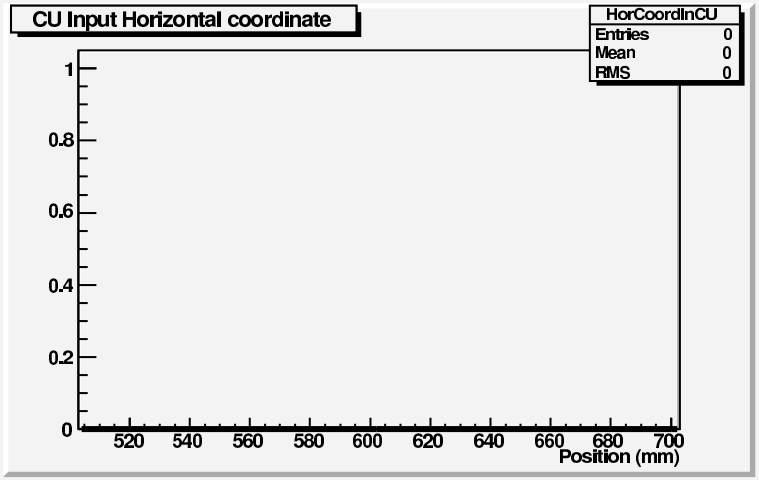

CU Input vertical coordinate
VertCoordInCU
Entries 10
Mean 49.27
RMS 0
Position (mm)

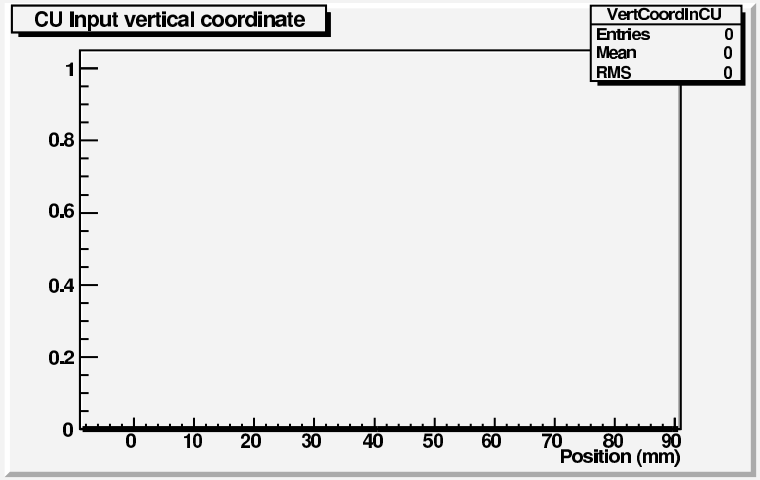

CU Input horizontal angle
HorAngleInCU
Entries 10
Mean 0.01097
RMS 0.004449
Angle (rad)

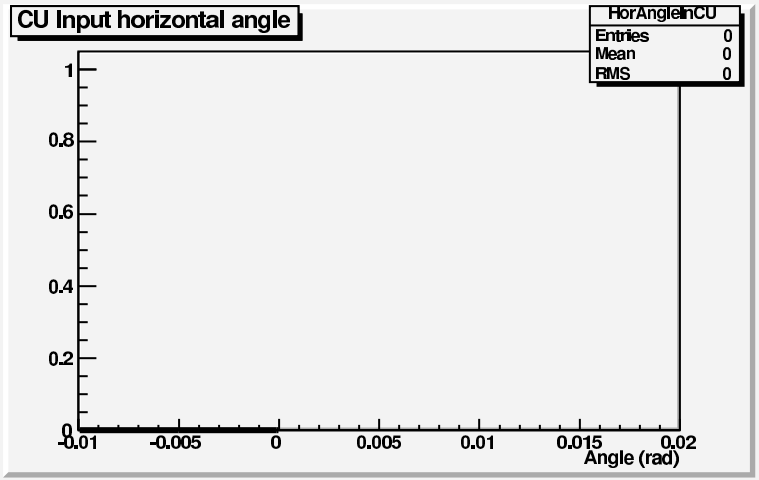

CU Input vertical angle
VertAngleInCU
Entries 10
Mean 0
RMS 0
Angle (rad)

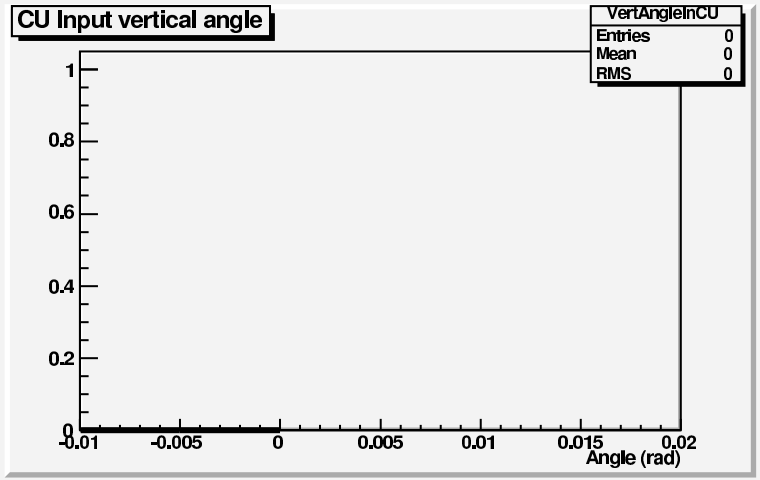

CU Input Beam Spot
SpotCoordInCU
Entries 10
Mean x 649.8
Mean y 49.27
RMS x 0
RMS y 0
Vertical Position (mm)
Horizontal Position (mm)

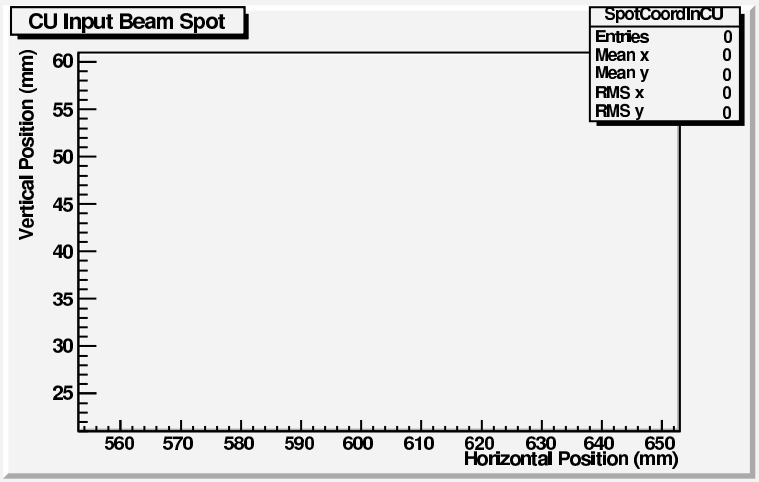

CU Input Beam Spot
SpotAngleInCU
Entries 10
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

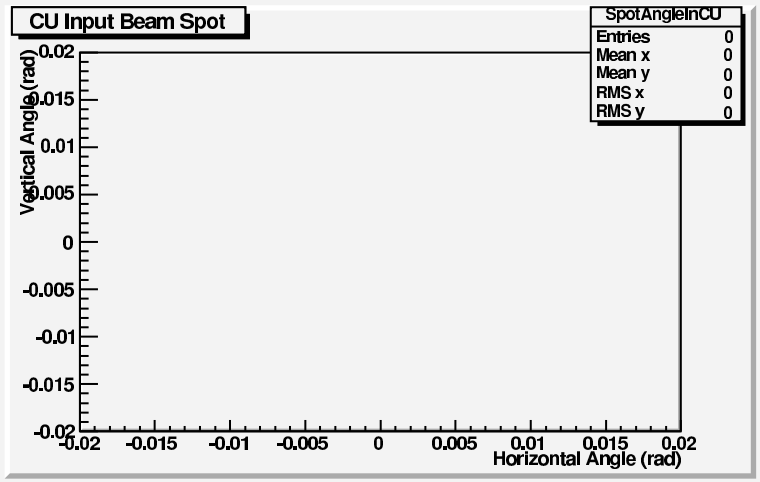

CU Input Horizontal coordinate
HorCoordInCU
Entries 0
Mean 0
RMS 0
Position (mm)

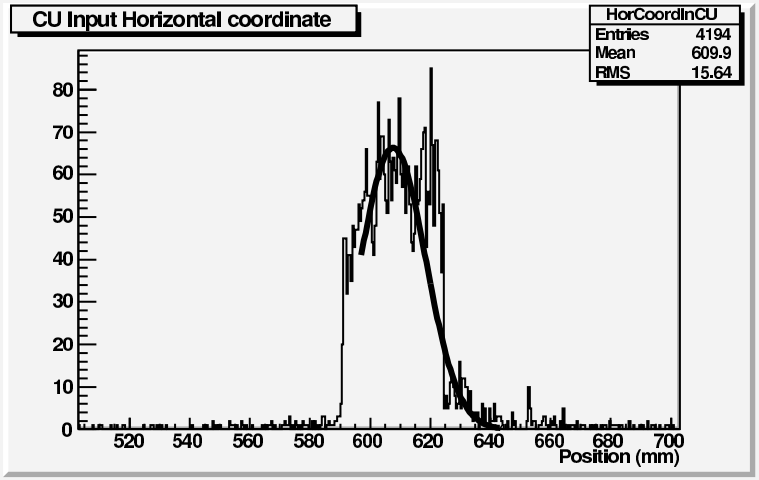

CU Input vertical coordinate
VertCoordInCU
Entries 0
Mean 0
RMS 0
Position (mm)

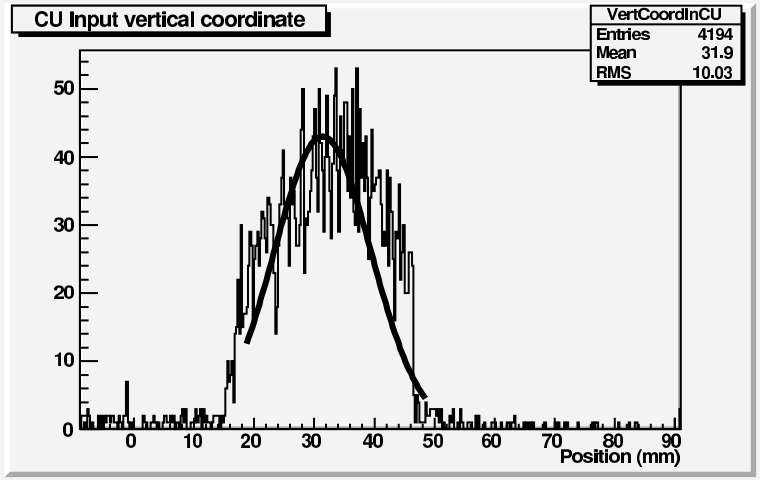

CU Input horizontal angle
HorAngleInCU
Entries 0
Mean 0
RMS 0
Angle (rad)

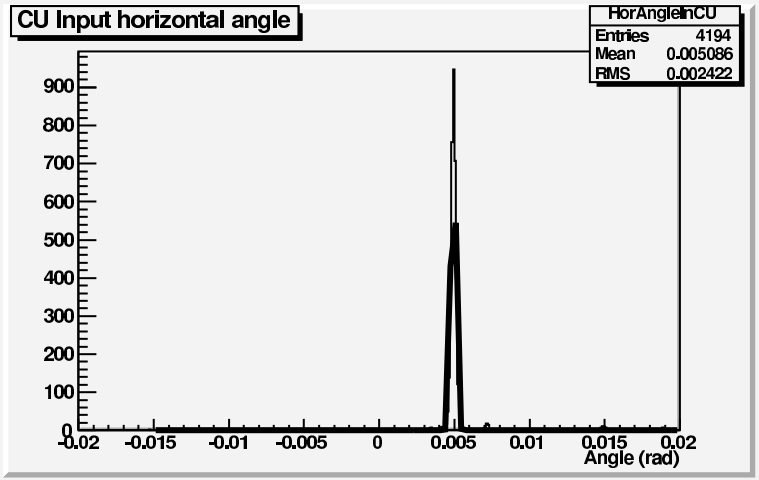

CU Input vertical angle
VertAngleInCU
Entries 0
Mean 0
RMS 0
Angle (rad)

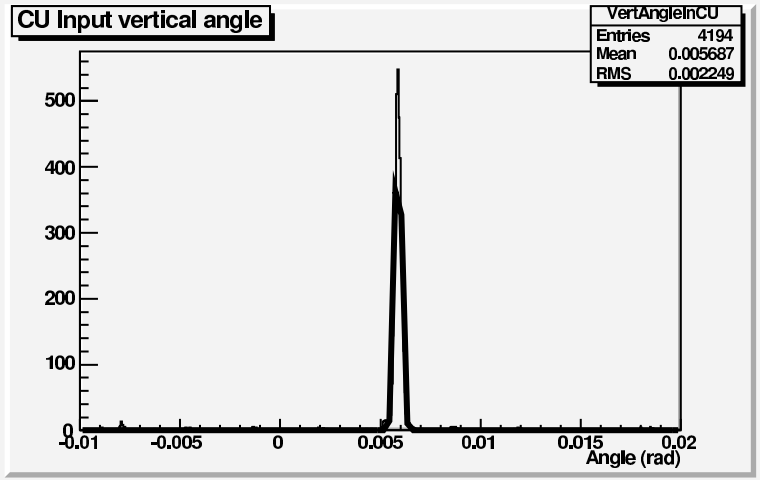

CU Input Beam Spot
SpotCoordInCU
Entries 0
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Position (mm)
Horizontal Position (mm)

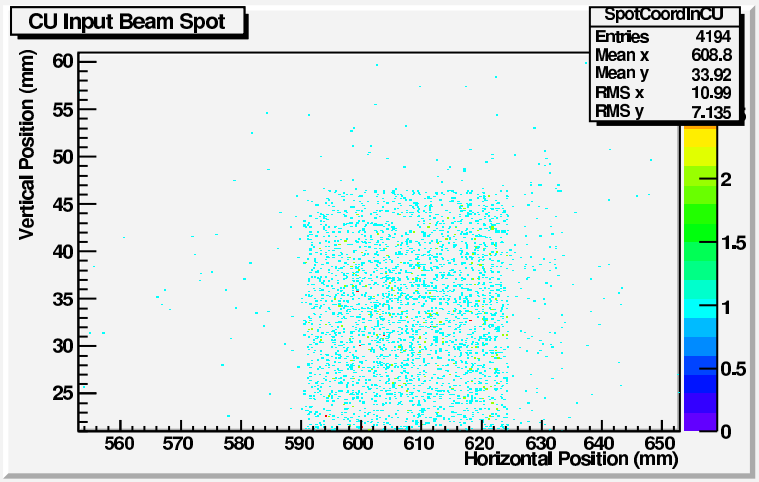

CU Input Beam Spot
SpotAngleInCU
Entries 0
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

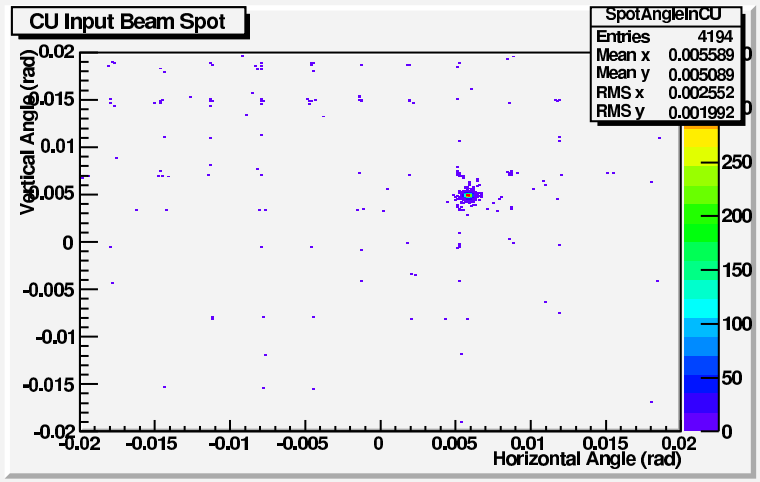

CU Input Horizontal coordinate
HorCoordInCU
Entries 4194
Mean 609.9
RMS 15.64
Position (mm)

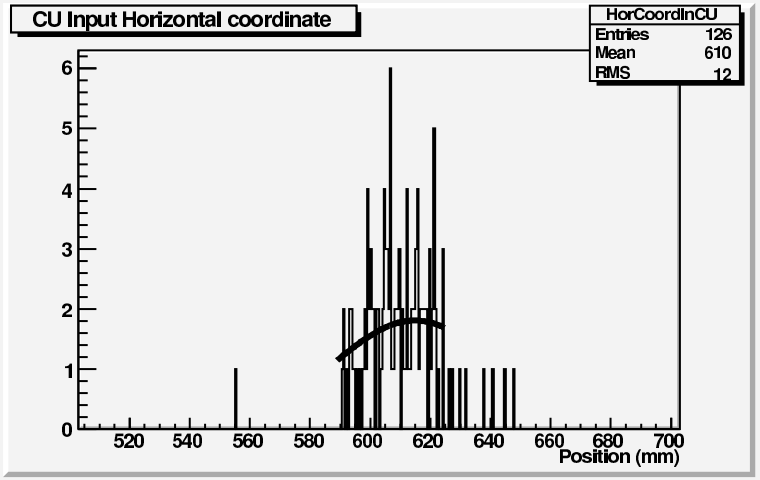

CU Input vertical coordinate
VertCoordInCU
Entries 4194
Mean 31.9
RMS 10.03
Position (mm)

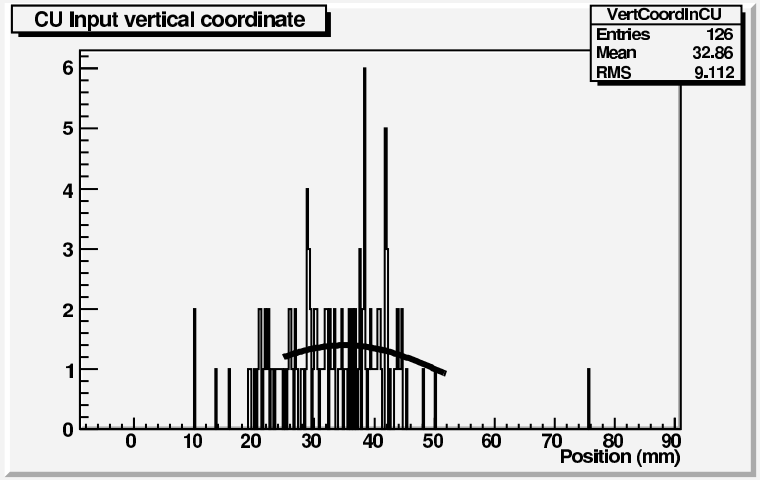

CU Input horizontal angle
HorAngleInCU
Entries 4194
Mean 0.005086
RMS 0.002422
Angle (rad)

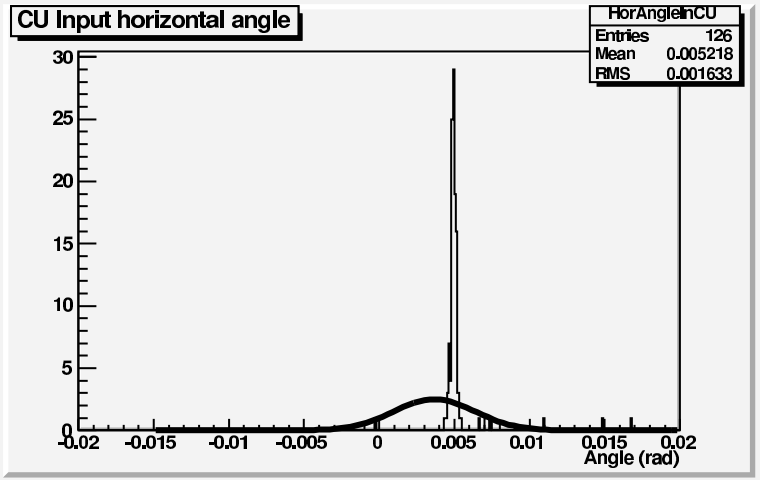

CU Input vertical angle
VertAngleInCU
Entries 4194
Mean 0.005687
RMS 0.002249
Angle (rad)

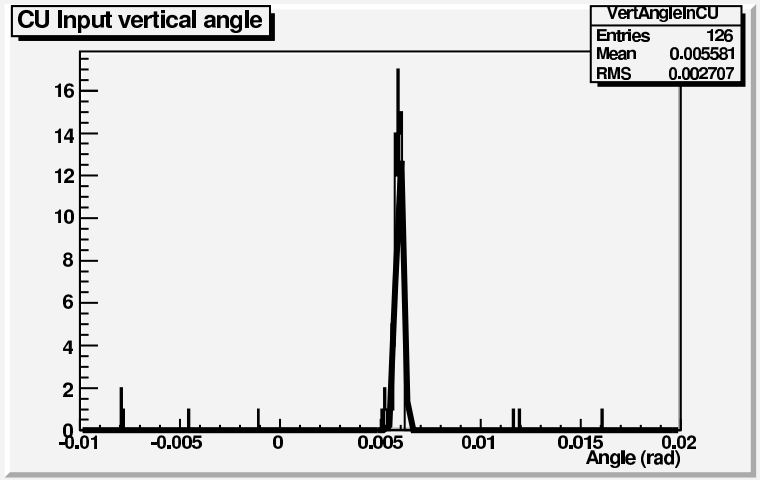

CU Input Beam Spot
SpotCoordInCU
Entries 4194
Mean x 608.8
Mean y 33.92
RMS x 10.99
RMS y 7.135
Vertical Position (mm)
Horizontal Position (mm)

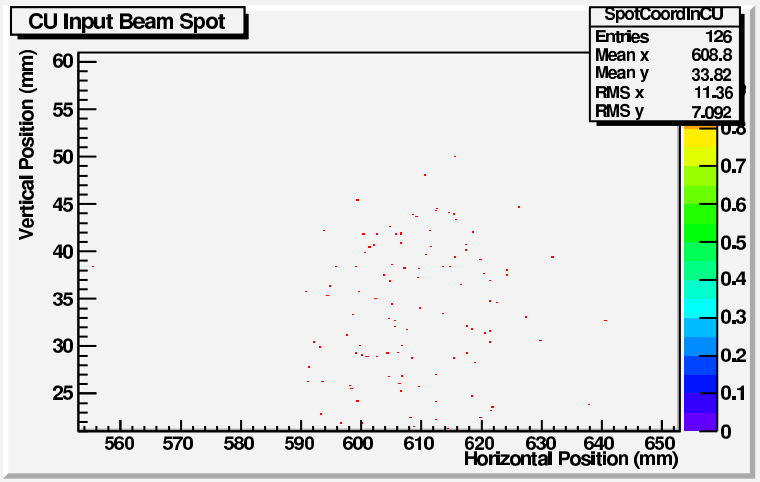

CU Input Beam Spot
SpotAngleInCU
Entries 4194
Mean x 0.005589
Mean y 0.005089
RMS x 0.002552
RMS y 0.001992
Vertical Angle (rad)
Horizontal Angle (rad)

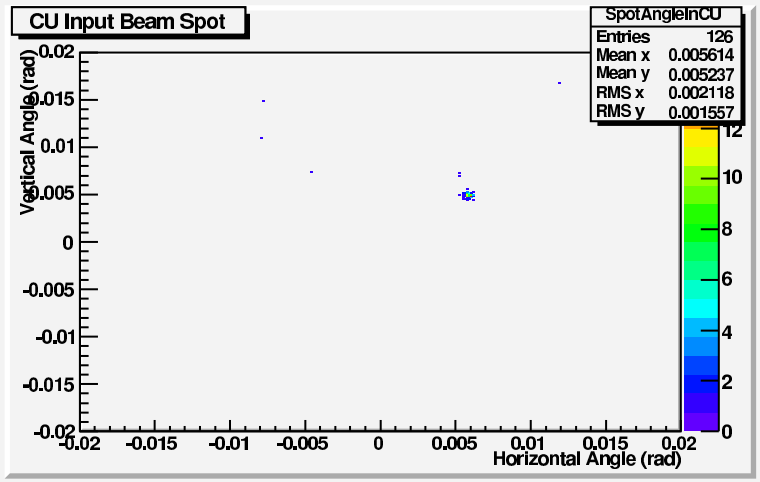

CU Input Horizontal coordinate
HorCoordInCU
Entries 126
Mean 610
RMS 12
Position (mm)

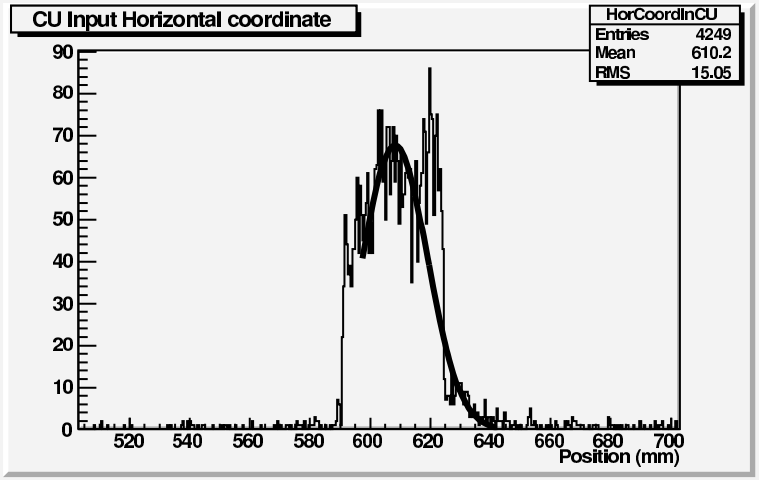

CU Input vertical coordinate
VertCoordInCU
Entries 126
Mean 32.86
RMS 9.112
Position (mm)

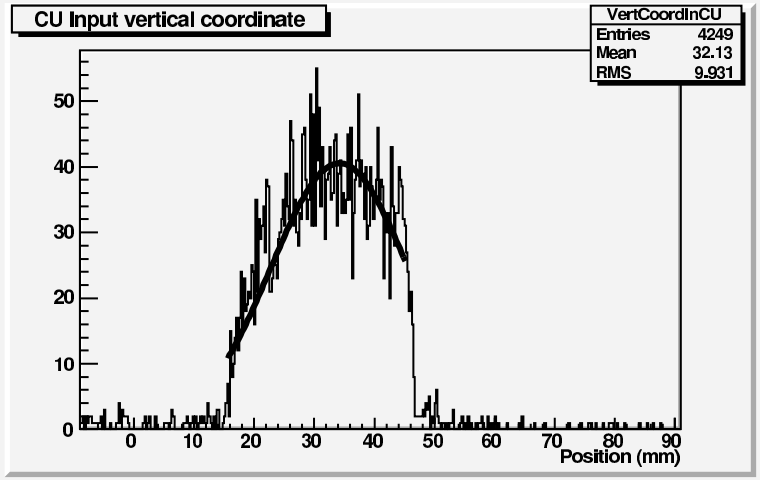

CU Input horizontal angle
HorAngleInCU
Entries 126
Mean 0.005218
RMS 0.001633
Angle (rad)

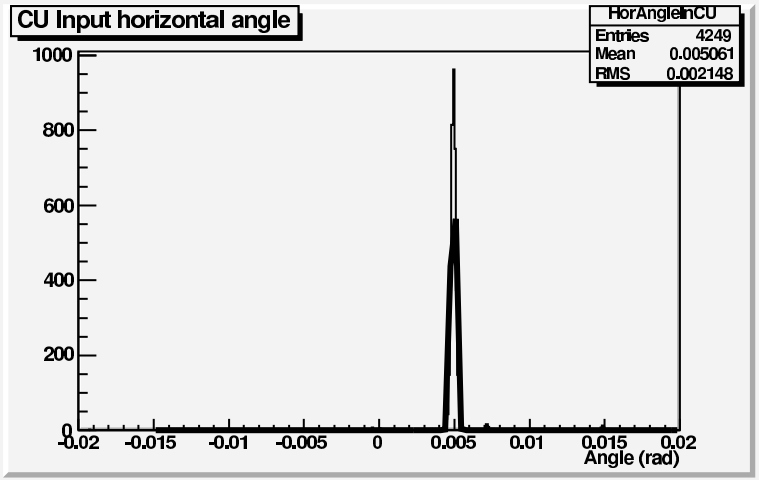

CU Input vertical angle
VertAngleInCU
Entries 126
Mean 0.005581
RMS 0.002707
Angle (rad)

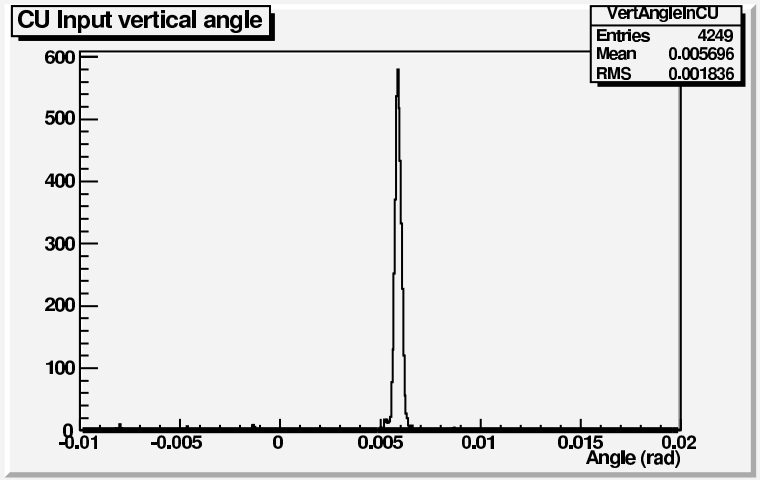

CU Input Beam Spot
SpotCoordInCU
Entries 126
Mean x 608.8
Mean y 33.82
RMS x 11.36
RMS y 7.092
Vertical Position (mm)
Horizontal Position (mm)

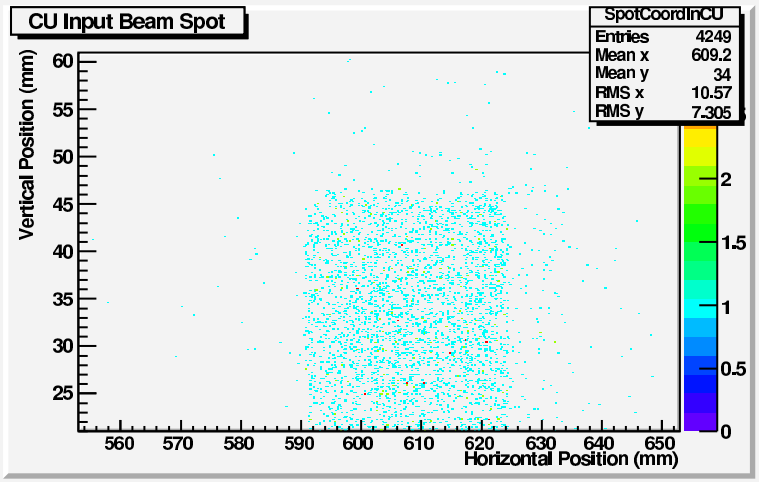

CU Input Beam Spot
SpotAngleInCU
Entries 126
Mean x 0.005614
Mean y 0.005237
RMS x 0.002118
RMS y 0.001557
Vertical Angle (rad)
Horizontal Angle (rad)

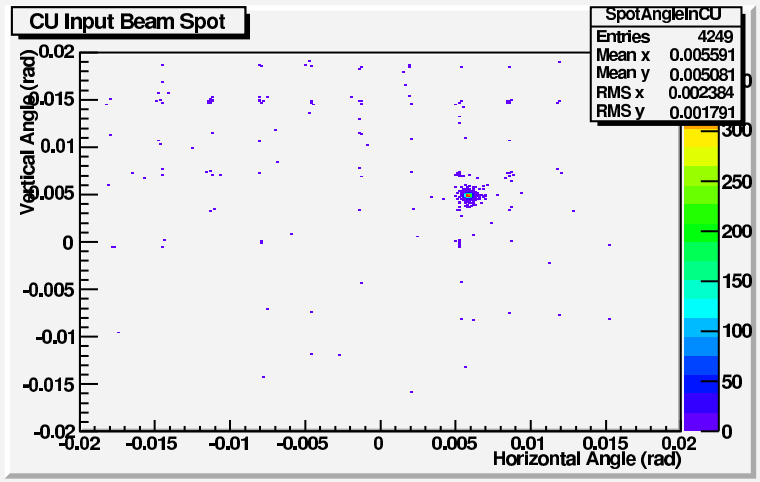

CU Input Horizontal coordinate
HorCoordInCU
Entries 4249
Mean 610.2
RMS 15.05
Position (mm)

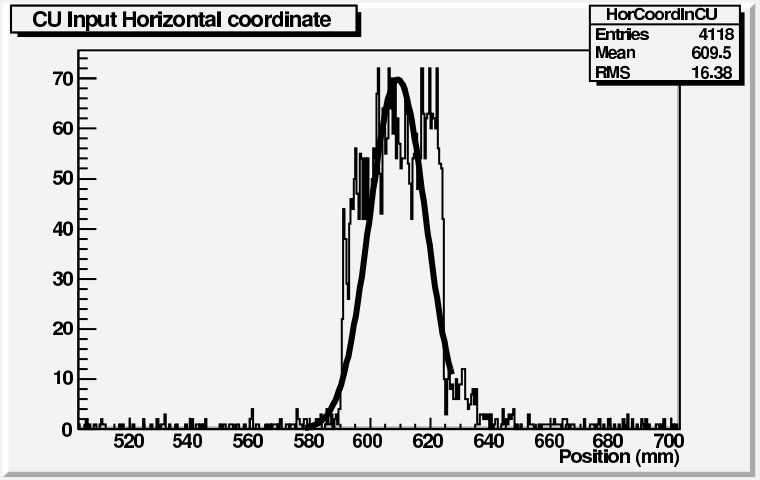

CU Input vertical coordinate
VertCoordInCU
Entries 4249
Mean 32.13
RMS 9.931
Position (mm)

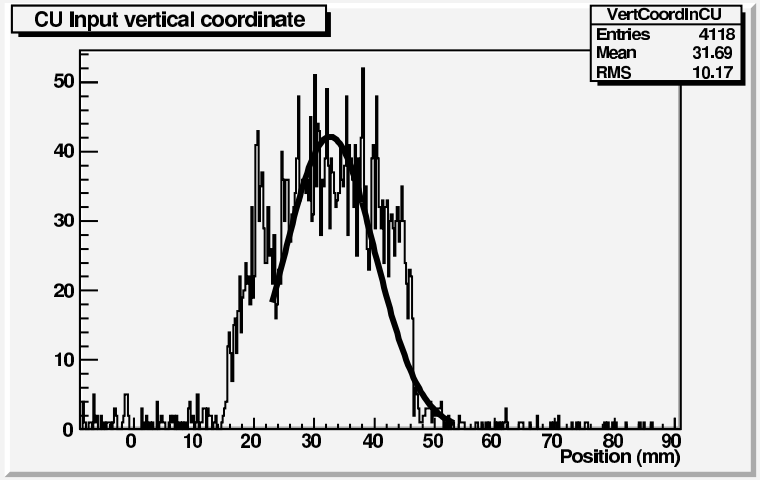

CU Input horizontal angle
HorAngleInCU
Entries 4249
Mean 0.005061
RMS 0.002148
Angle (rad)

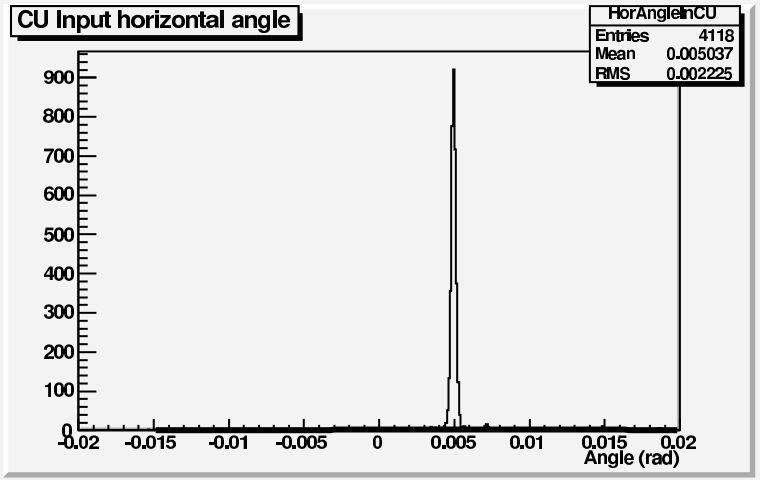

CU Input vertical angle
VertAngleInCU
Entries 4249
Mean 0.005696
RMS 0.001836
Angle (rad)

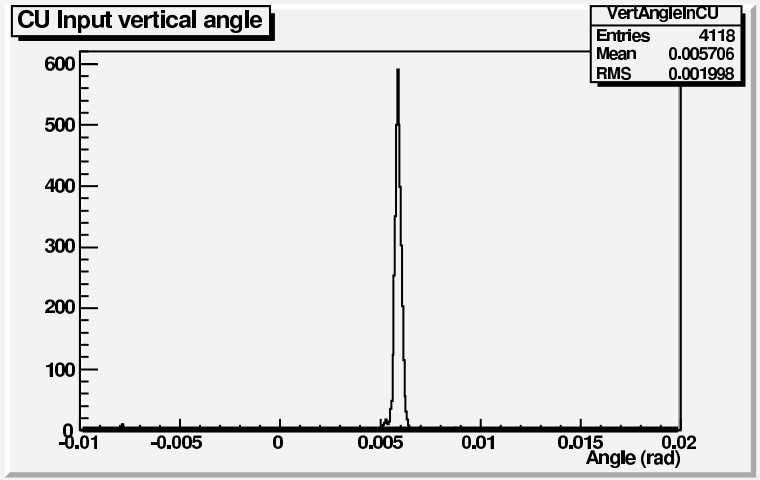

CU Input Beam Spot
SpotCoordInCU
Entries 4249
Mean x 609.2
Mean y 34
RMS x 10.57
RMS y 7.305
Vertical Position (mm)
Horizontal Position (mm)

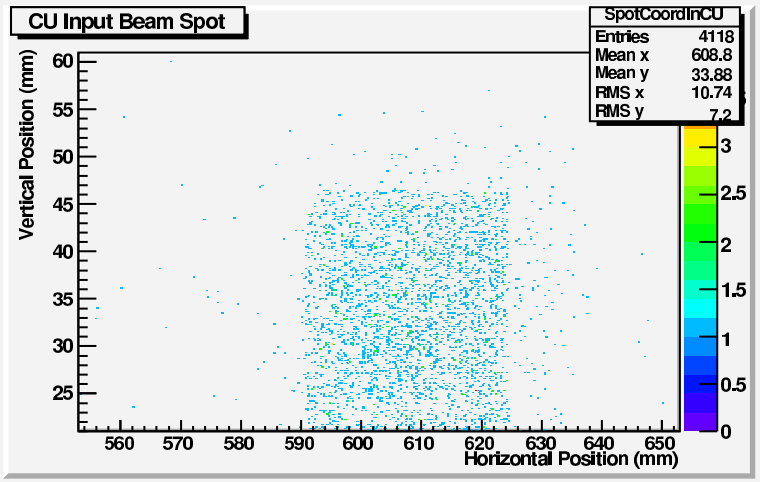

CU Input Beam Spot
SpotAngleInCU
Entries 4249
Mean x 0.005591
Mean y 0.005081
RMS x 0.002384
RMS y 0.001791
Vertical Angle (rad)
Horizontal Angle (rad)

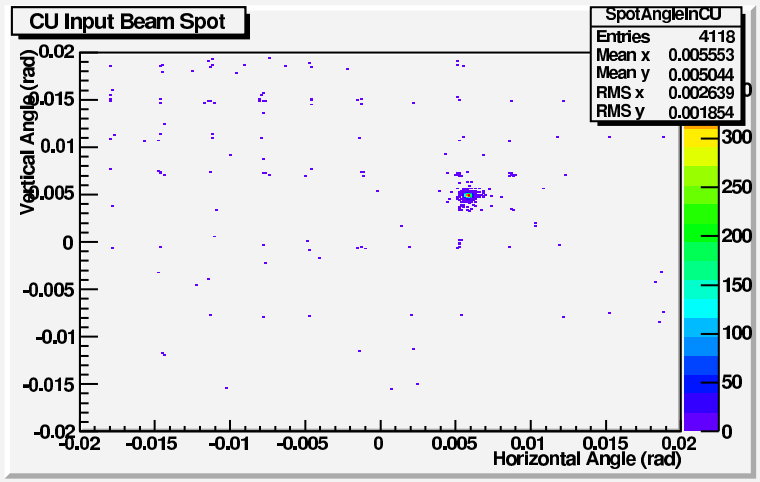

CU Input Horizontal coordinate
HorCoordInCU
Entries 4118
Mean 609.5
RMS 16.38
Position (mm)

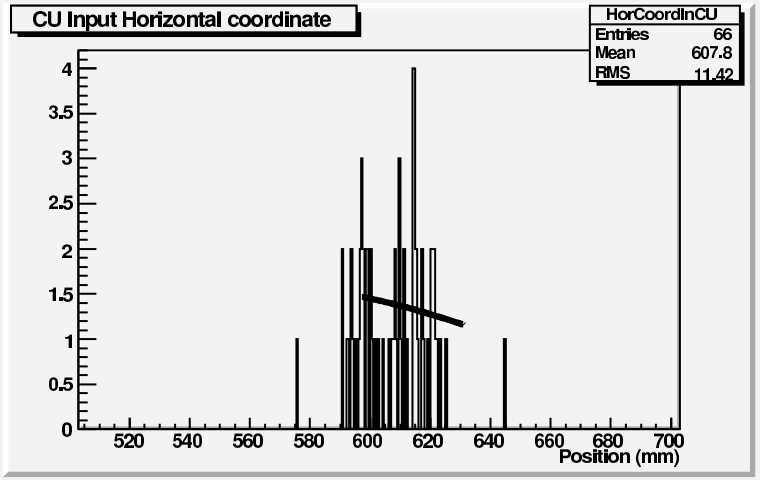

CU Input vertical coordinate
VertCoordInCU
Entries 4118
Mean 31.69
RMS 10.17
Position (mm)

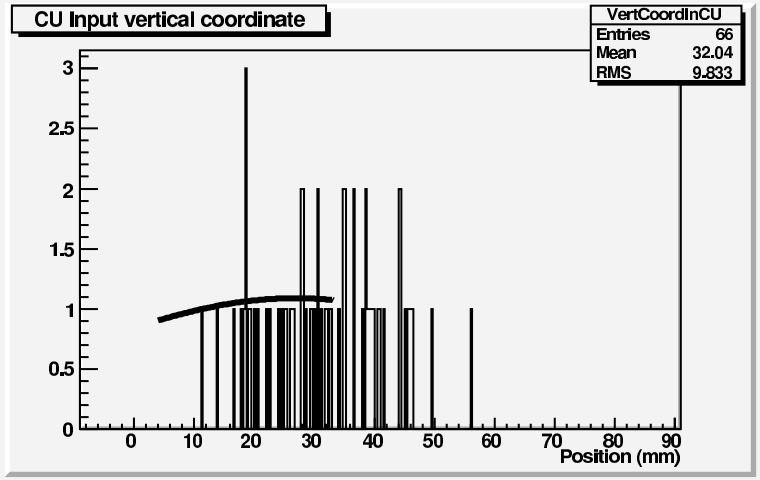

CU Input horizontal angle
HorAngleInCU
Entries 4118
Mean 0.005037
RMS 0.002225
Angle (rad)

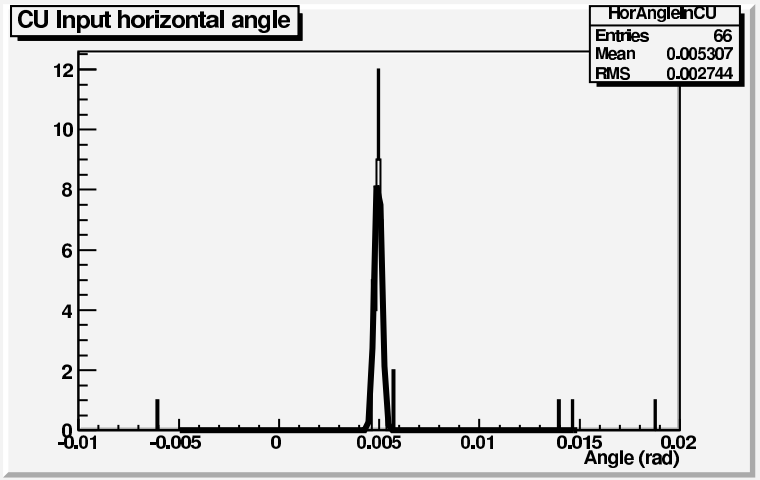

CU Input vertical angle
VertAngleInCU
Entries 4118
Mean 0.005706
RMS 0.001998
Angle (rad)

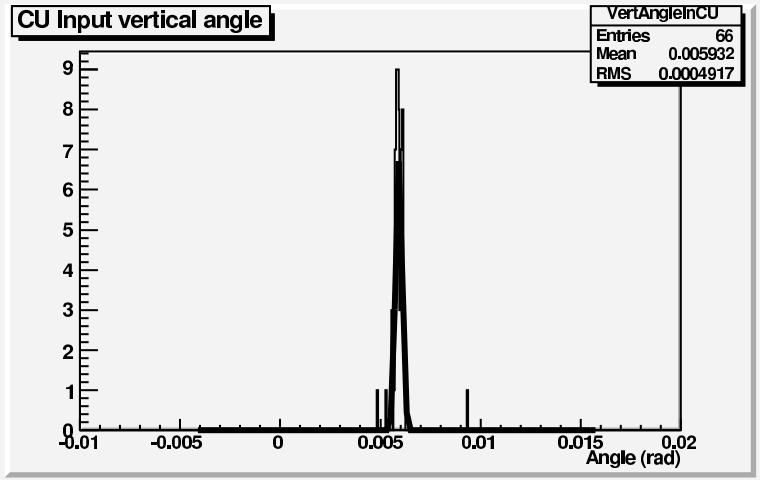

CU Input Beam Spot
SpotCoordInCU
Entries 4118
Mean x 608.8
Mean y 33.88
RMS x 10.74
RMS y 7.2
Vertical Position (mm)
Horizontal Position (mm)

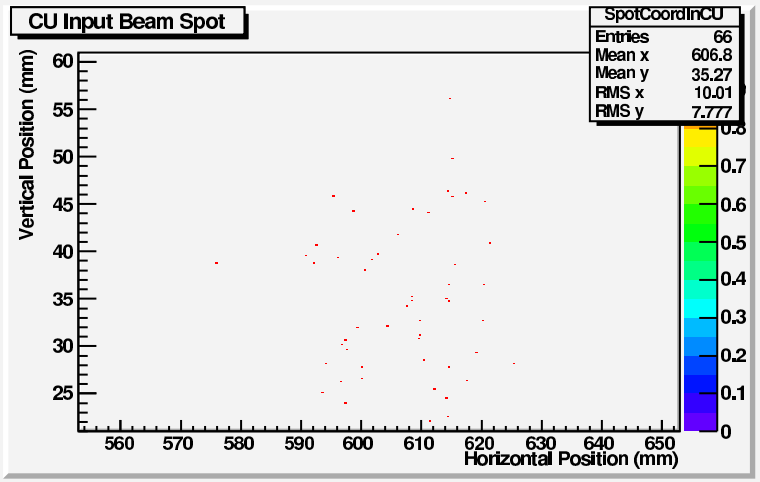

CU Input Beam Spot
SpotAngleInCU
Entries 4118
Mean x 0.005553
Mean y 0.005044
RMS x 0.002639
RMS y 0.001854
Vertical Angle (rad)
Horizontal Angle (rad)

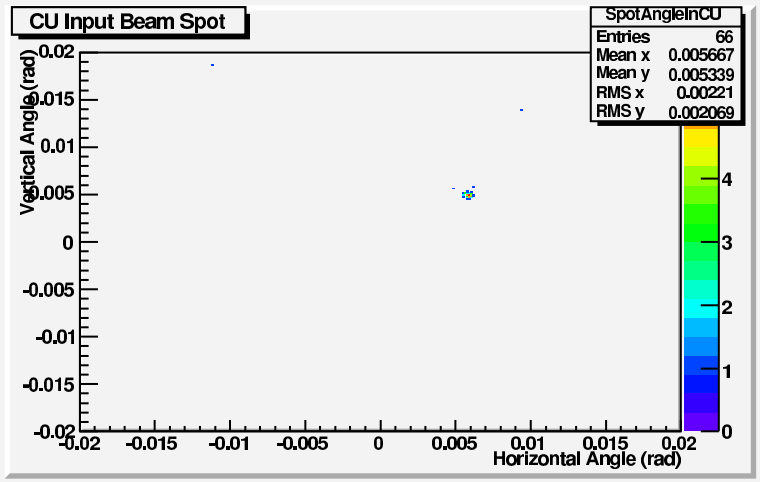

CU Input Horizontal coordinate
HorCoordInCU
Entries 66
Mean 607.8
RMS 11.42
Position (mm)

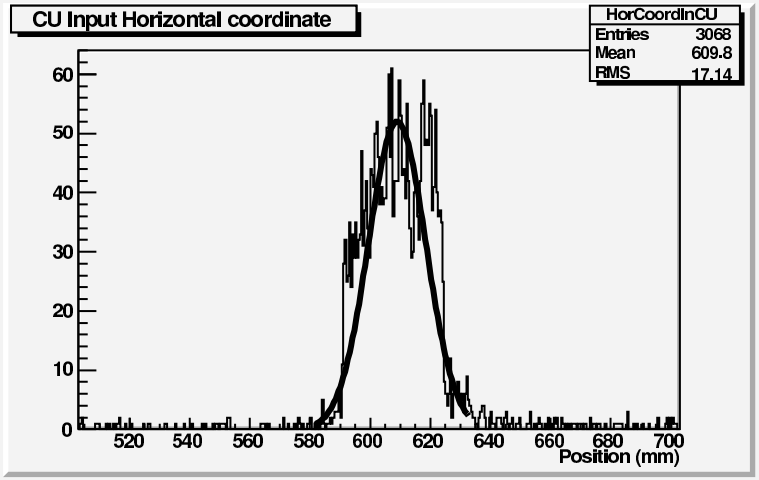

CU Input vertical coordinate
VertCoordInCU
Entries 66
Mean 32.04
RMS 9.833
Position (mm)

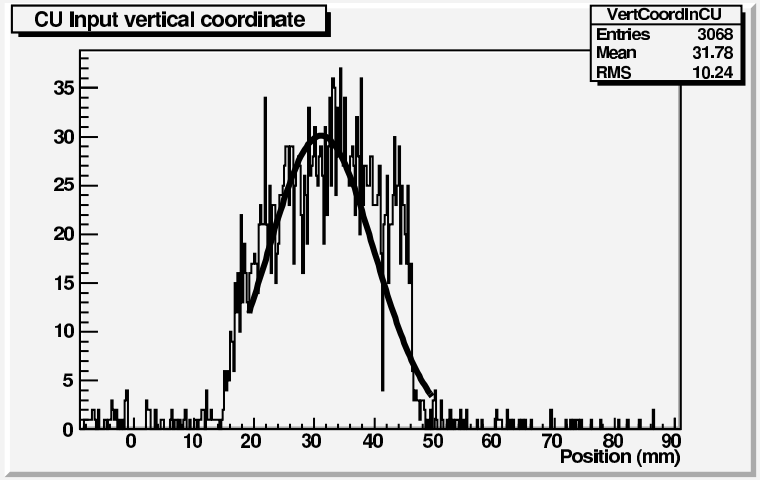

CU Input horizontal angle
HorAngleInCU
Entries 66
Mean 0.005307
RMS 0.002744
Angle (rad)

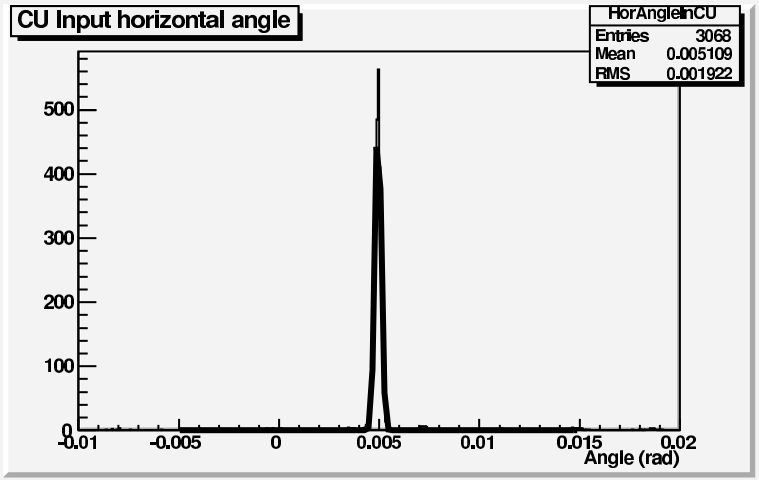

CU Input vertical angle
VertAngleInCU
Entries 66
Mean 0.005932
RMS 0.0004917
Angle (rad)

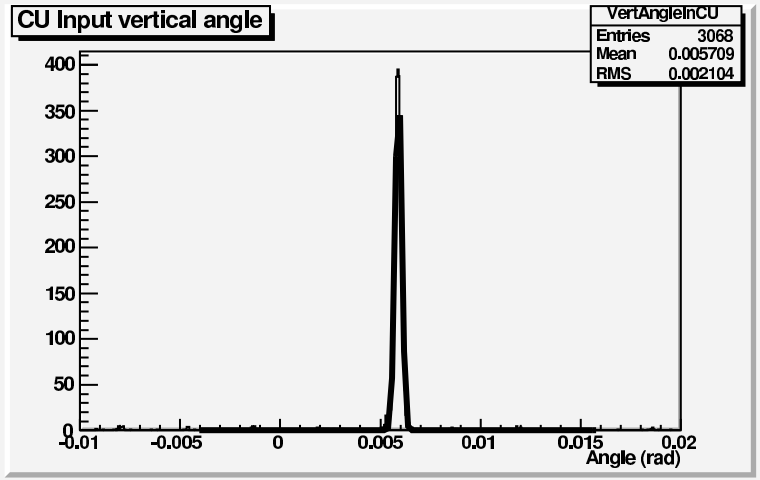

CU Input Beam Spot
SpotCoordInCU
Entries 66
Mean x 606.8
Mean y 35.27
RMS x 10.01
RMS y 7.777
Vertical Position (mm)
Horizontal Position (mm)

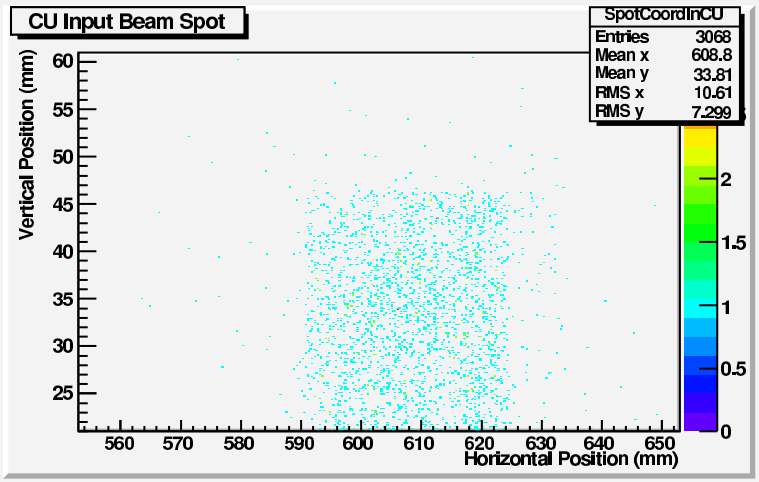

CU Input Beam Spot
SpotAngleInCU
Entries 66
Mean x 0.005667
Mean y 0.005339
RMS x 0.00221
RMS y 0.002069
Vertical Angle (rad)
Horizontal Angle (rad)

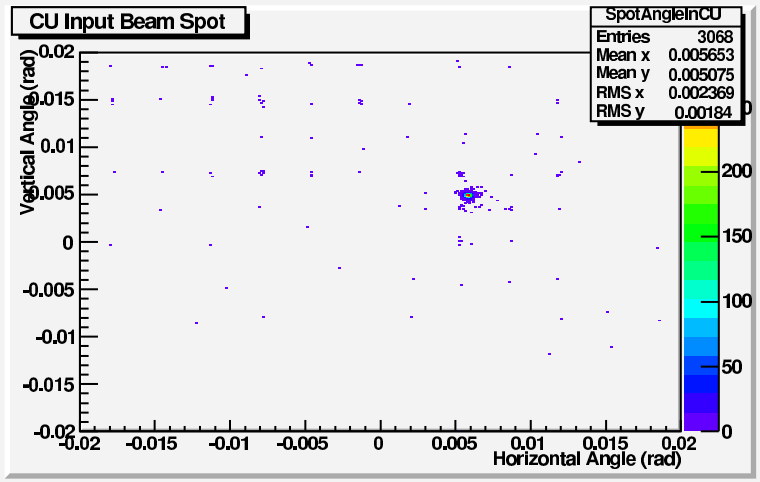

CU Input Horizontal coordinate
HorCoordInCU
Entries 3068
Mean 609.8
RMS 17.14
Position (mm)

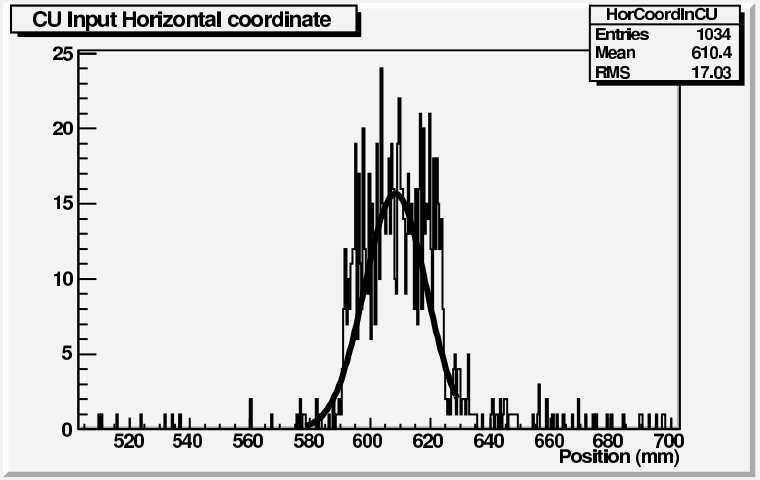

CU Input vertical coordinate
VertCoordInCU
Entries 3068
Mean 31.78
RMS 10.24
Position (mm)

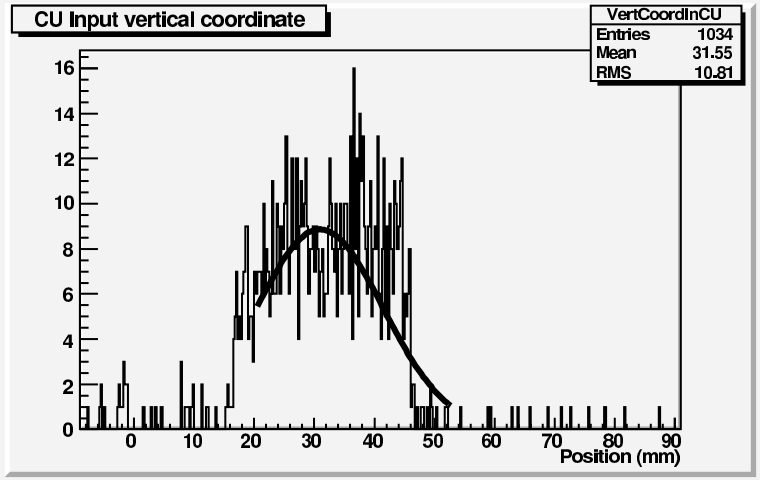

CU Input horizontal angle
HorAngleInCU
Entries 3068
Mean 0.005109
RMS 0.001922
Angle (rad)

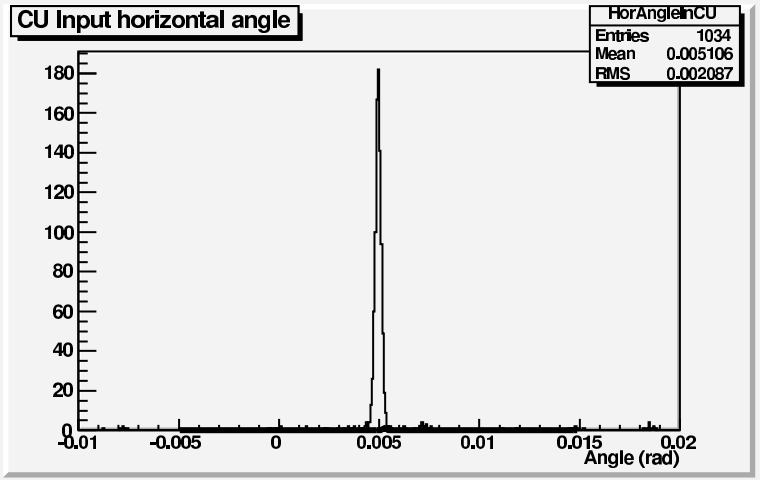

CU Input vertical angle
VertAngleInCU
Entries 3068
Mean 0.005709
RMS 0.002104
Angle (rad)

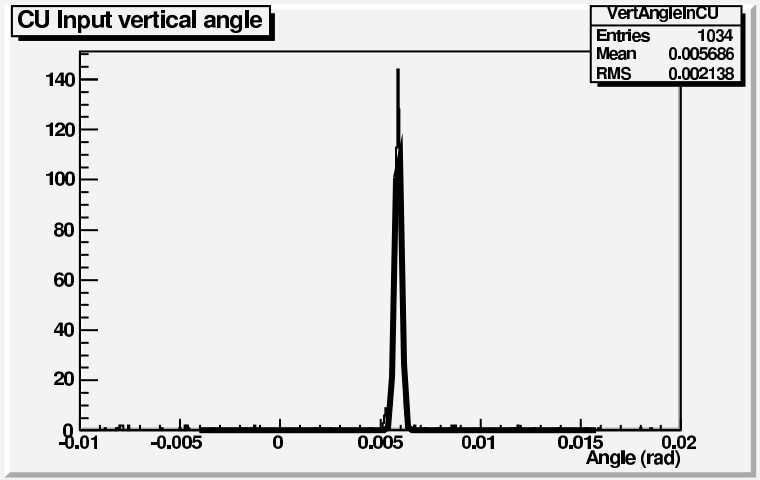

CU Input Beam Spot
SpotCoordInCU
Entries 3068
Mean x 608.8
Mean y 33.81
RMS x 10.61
RMS y 7.299
Vertical Position (mm)
Horizontal Position (mm)

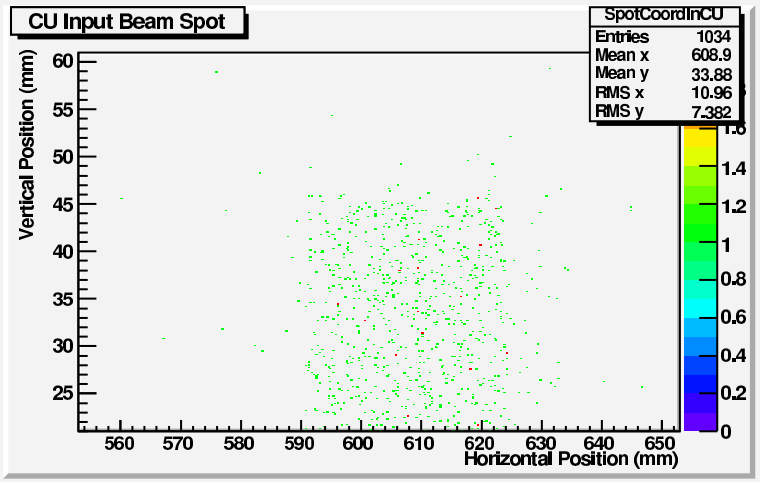

CU Input Beam Spot
SpotAngleInCU
Entries 3068
Mean x 0.005653
Mean y 0.005075
RMS x 0.002369
RMS y 0.00184
Vertical Angle (rad)
Horizontal Angle (rad)

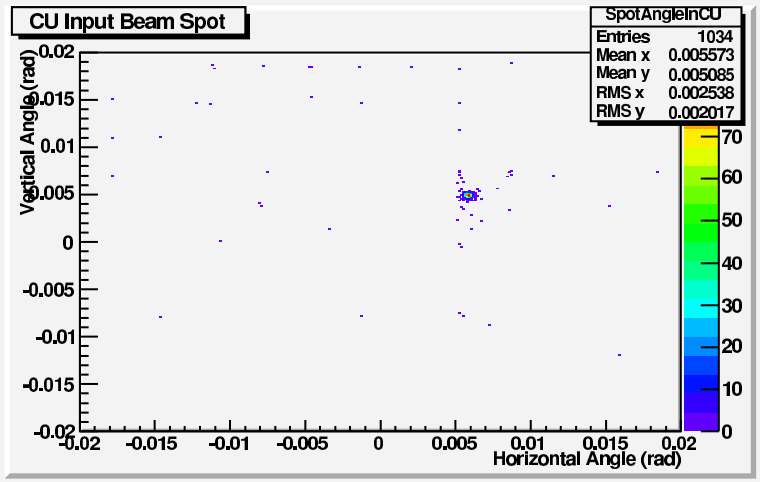

CU Input Horizontal coordinate
HorCoordInCU
Entries 1034
Mean 610.4
RMS 17.03
Position (mm)

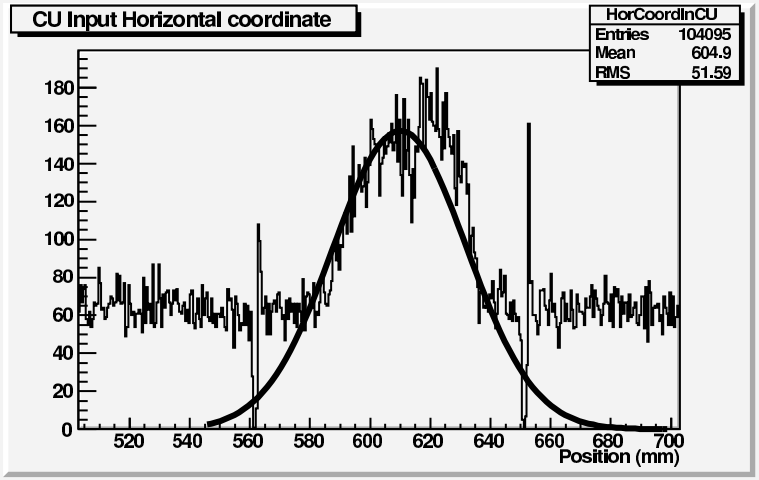

CU Input vertical coordinate
VertCoordInCU
Entries 1034
Mean 31.55
RMS 10.81
Position (mm)

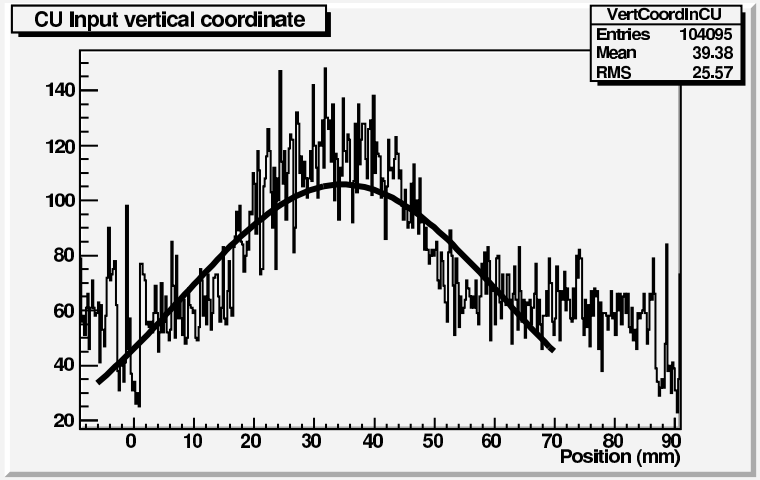

CU Input horizontal angle
HorAngleInCU
Entries 1034
Mean 0.005106
RMS 0.002087
Angle (rad)

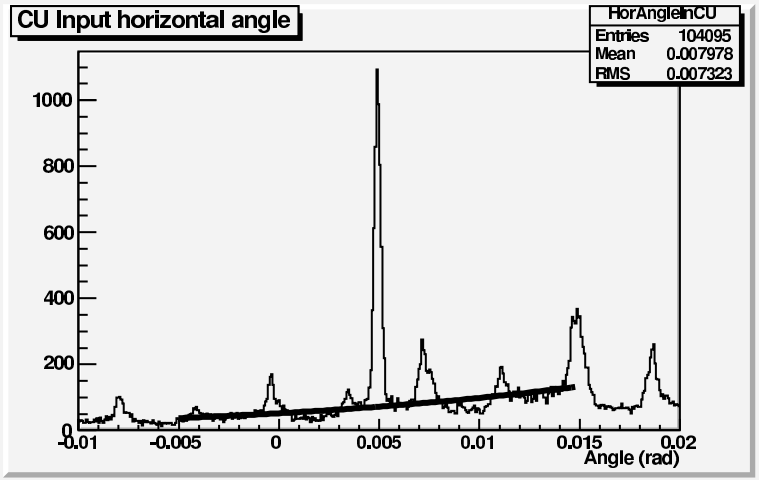

CU Input vertical angle
VertAngleInCU
Entries 1034
Mean 0.005686
RMS 0.002138
Angle (rad)

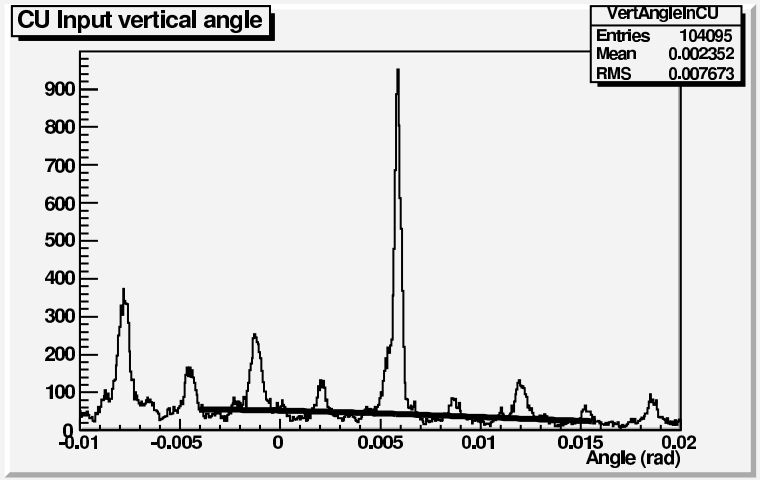

CU Input Beam Spot
SpotCoordInCU
Entries 1034
Mean x 608.9
Mean y 33.88
RMS x 10.96
RMS y 7.382
Vertical Position (mm)
Horizontal Position (mm)

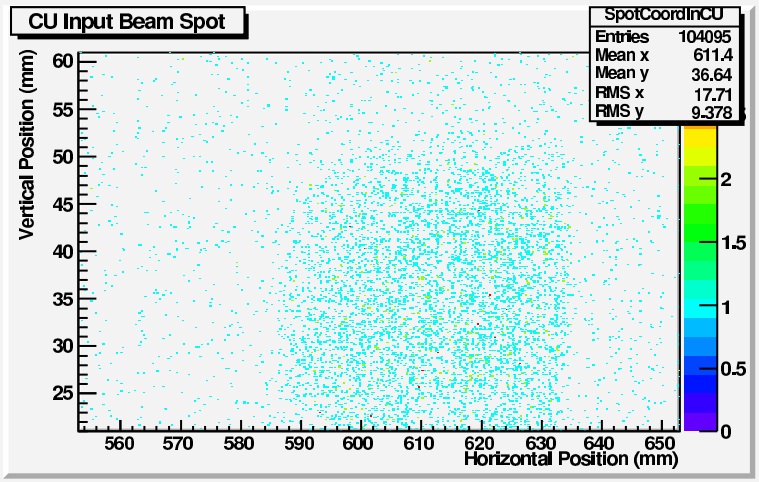

CU Input Beam Spot
SpotAngleInCU
Entries 1034
Mean x 0.005573
Mean y 0.005085
RMS x 0.002538
RMS y 0.002017
Vertical Angle (rad)
Horizontal Angle (rad)

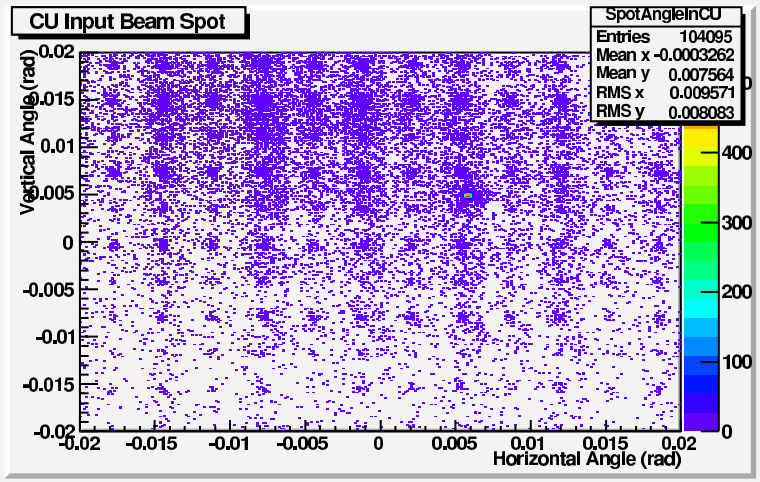

CU Input Horizontal coordinate
HorCoordInCU
Entries 104095
Mean 604.9
RMS 51.59
Position (mm)

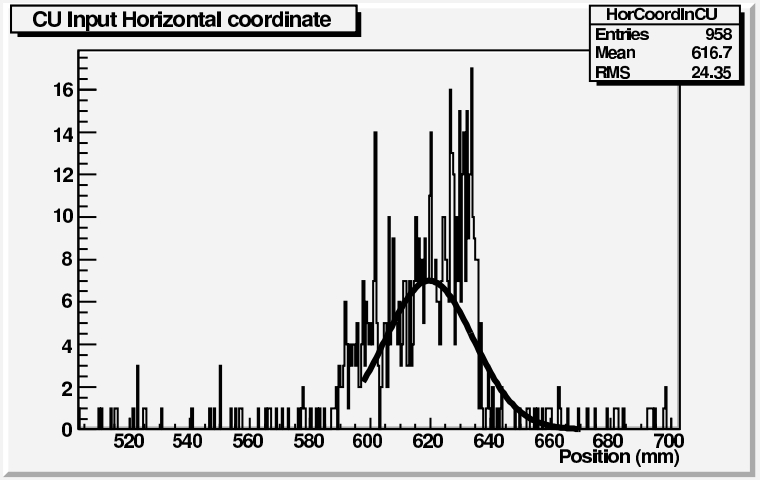

CU Input vertical coordinate
VertCoordInCU
Entries 104095
Mean 39.38
RMS 25.57
Position (mm)

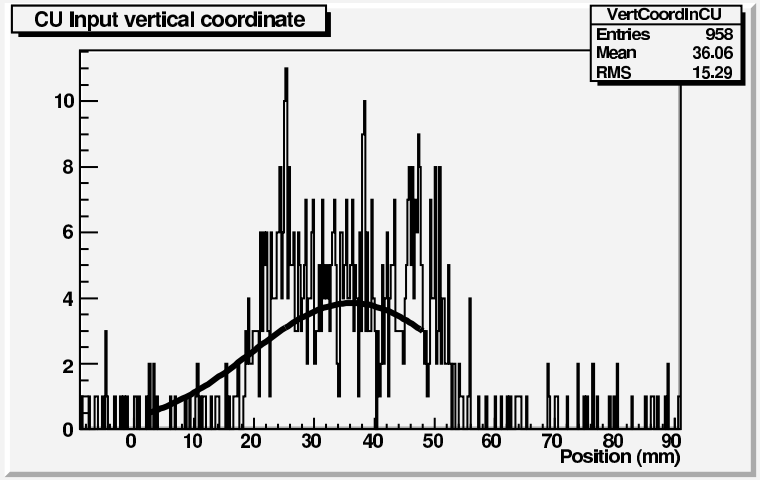

CU Input horizontal angle
HorAngleInCU
Entries 104095
Mean 0.007978
RMS 0.007323
Angle (rad)

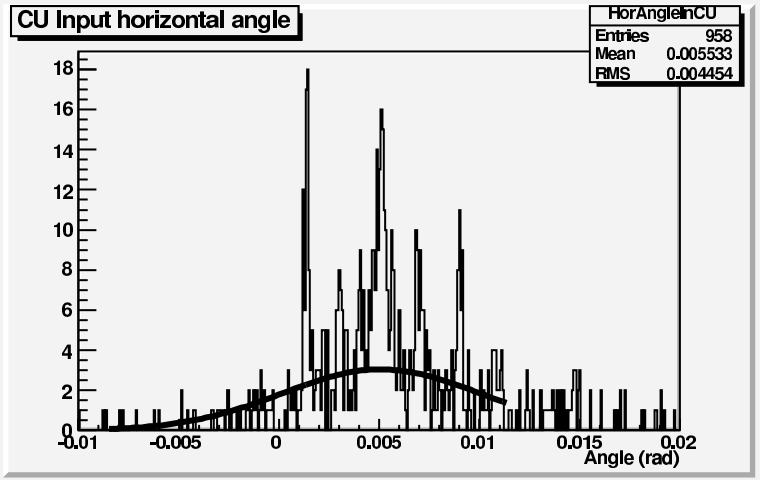

CU Input vertical angle
VertAngleInCU
Entries 104095
Mean 0.002352
RMS 0.007673
Angle (rad)

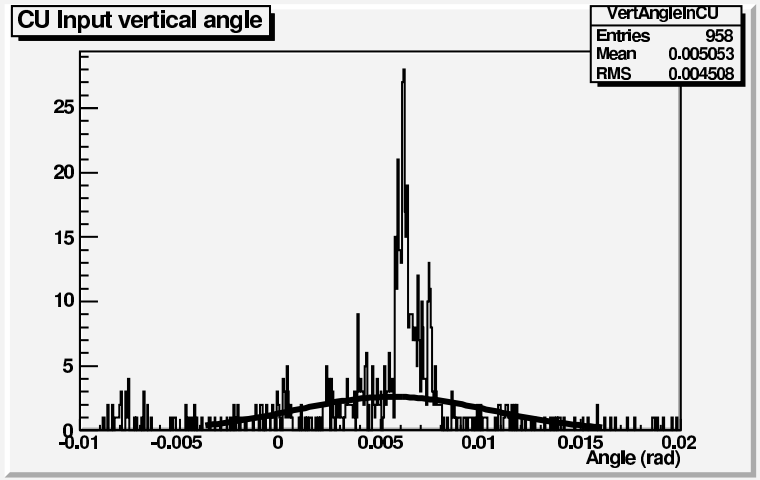

CU Input Beam Spot
SpotCoordInCU
Entries 104095
Mean x 611.4
Mean y 36.64
RMS x 17.71
RMS y 9.378
Vertical Position (mm)
Horizontal Position (mm)

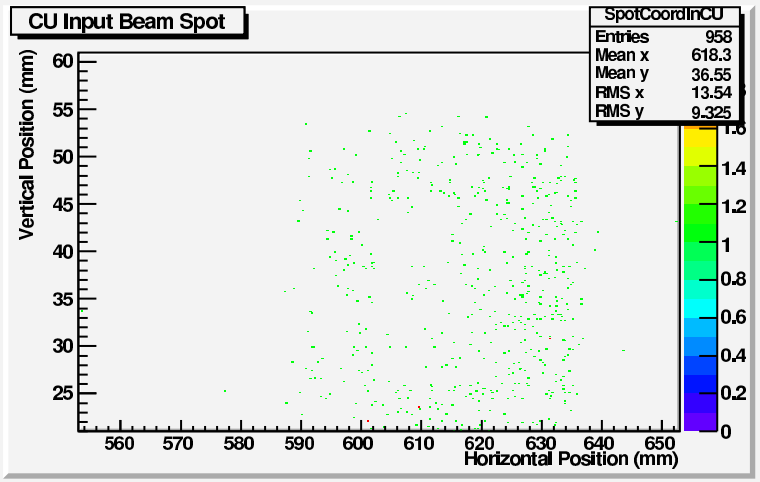

CU Input Beam Spot
SpotAngleInCU
Entries 104095
Mean x -0.0003262
Mean y 0.007564
RMS x 0.009571
RMS y 0.008083
Vertical Angle (rad)
Horizontal Angle (rad)

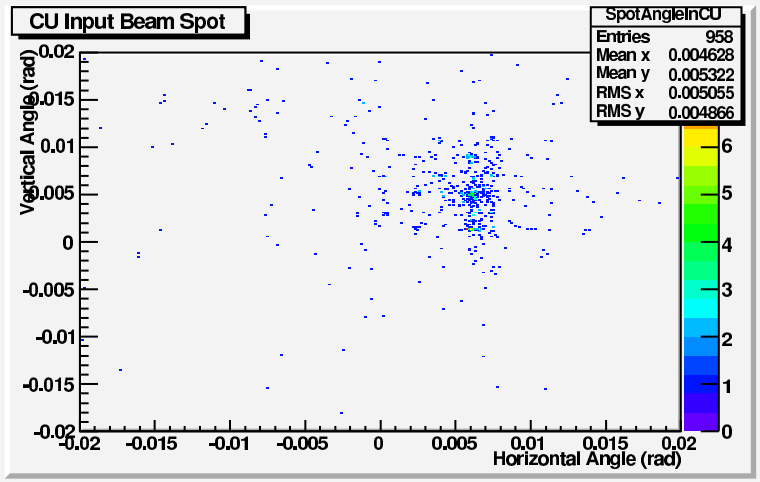

CU Input Horizontal coordinate
HorCoordInCU
Entries 958
Mean 616.7
RMS 24.35
Position (mm)

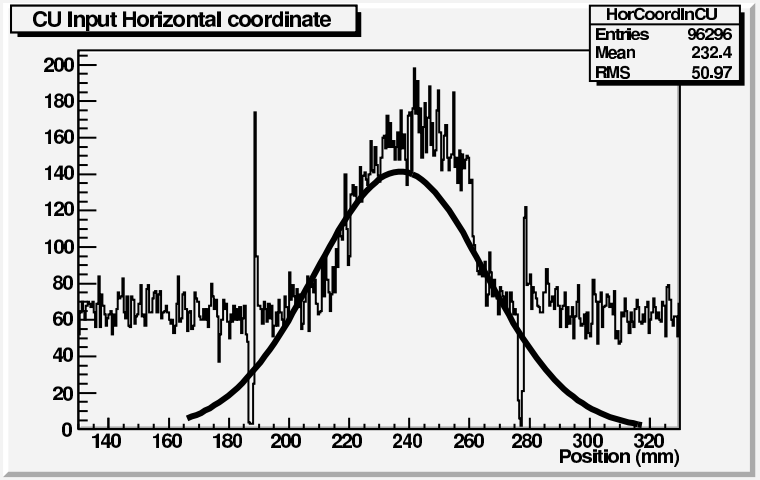

CU Input vertical coordinate
VertCoordInCU
Entries 958
Mean 36.06
RMS 15.29
Position (mm)

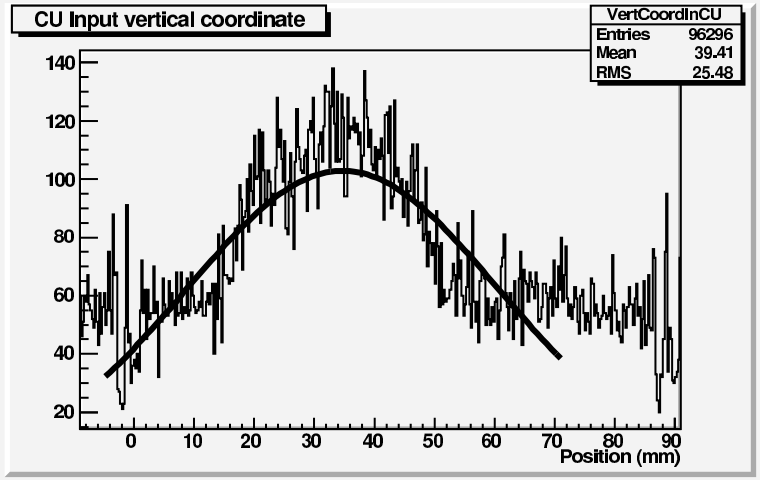

CU Input horizontal angle
HorAngleInCU
Entries 958
Mean 0.005533
RMS 0.004454
Angle (rad)

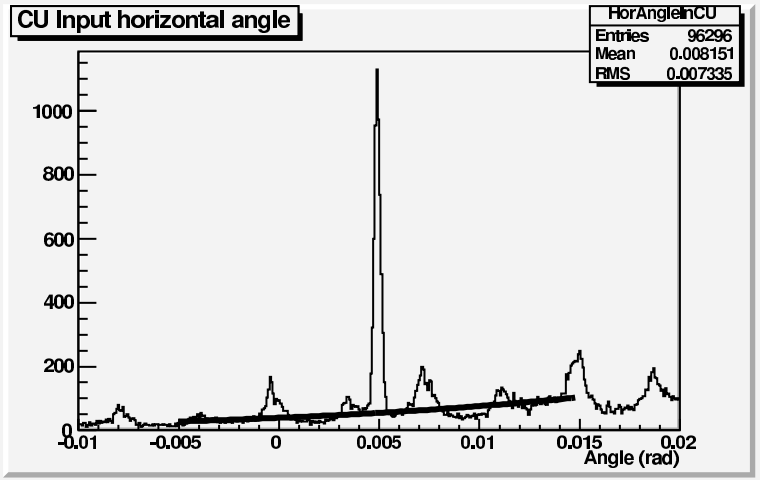

CU Input vertical angle
VertAngleInCU
Entries 958
Mean 0.005053
RMS 0.004508
Angle (rad)

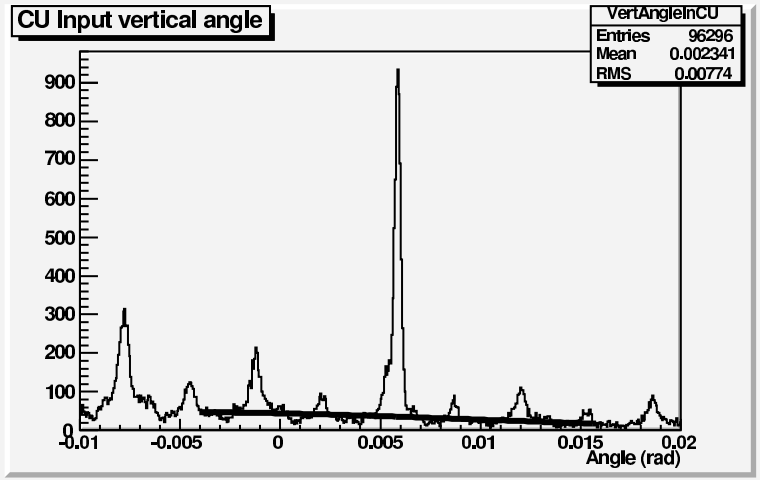

CU Input Beam Spot
SpotCoordInCU
Entries 958
Mean x 618.3
Mean y 36.55
RMS x 13.54
RMS y 9.325
Vertical Position (mm)
Horizontal Position (mm)

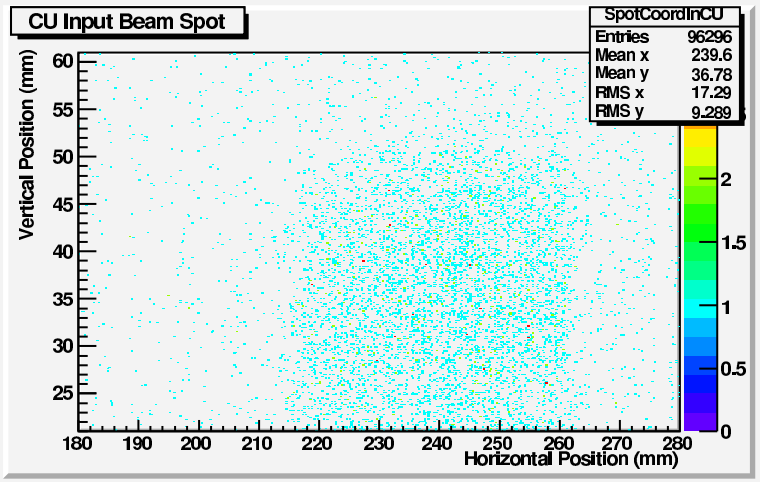

CU Input Beam Spot
SpotAngleInCU
Entries 958
Mean x 0.004628
Mean y 0.005322
RMS x 0.005055
RMS y 0.004866
Vertical Angle (rad)
Horizontal Angle (rad)

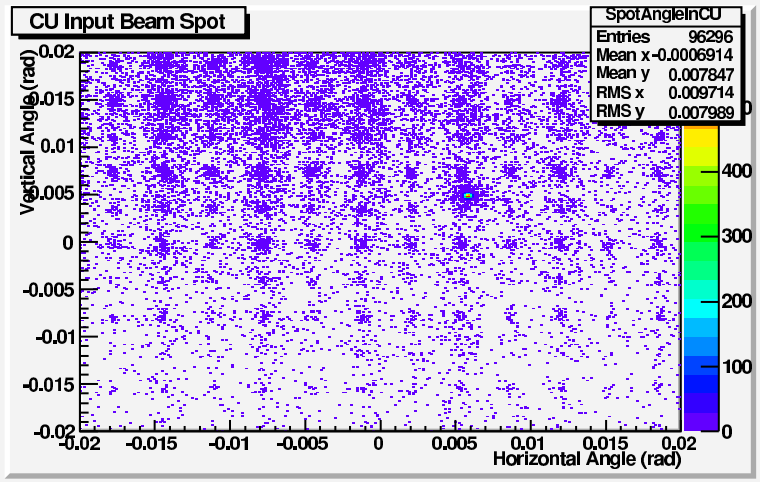

CU Input Horizontal coordinate
HorCoordInCU
Entries 96296
Mean 232.4
RMS 50.97
Position (mm)

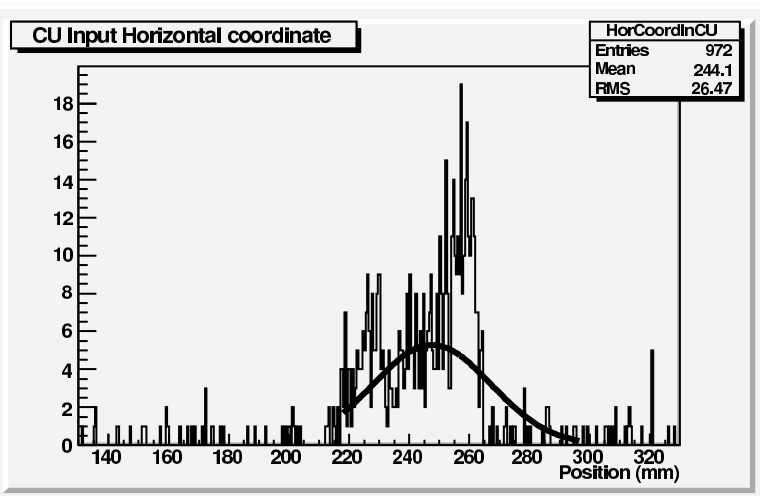

CU Input vertical coordinate
VertCoordInCU
Entries 96296
Mean 39.41
RMS 25.48
Position (mm)

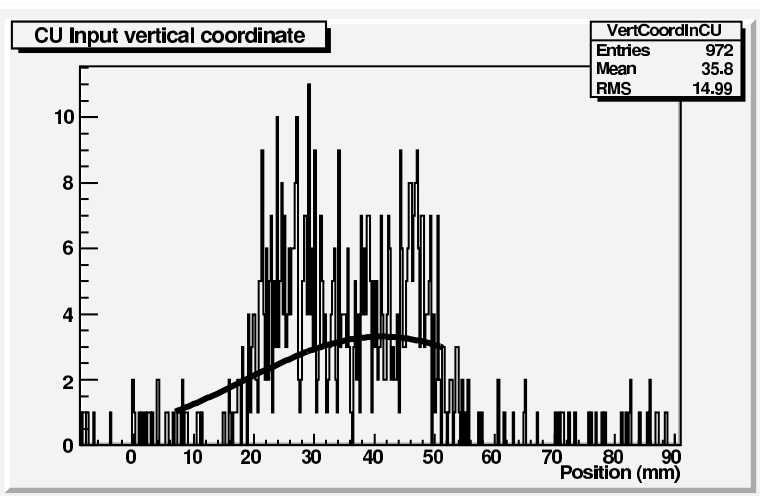

CU Input horizontal angle
HorAngleInCU
Entries 96296
Mean 0.008151
RMS 0.007335
Angle (rad)

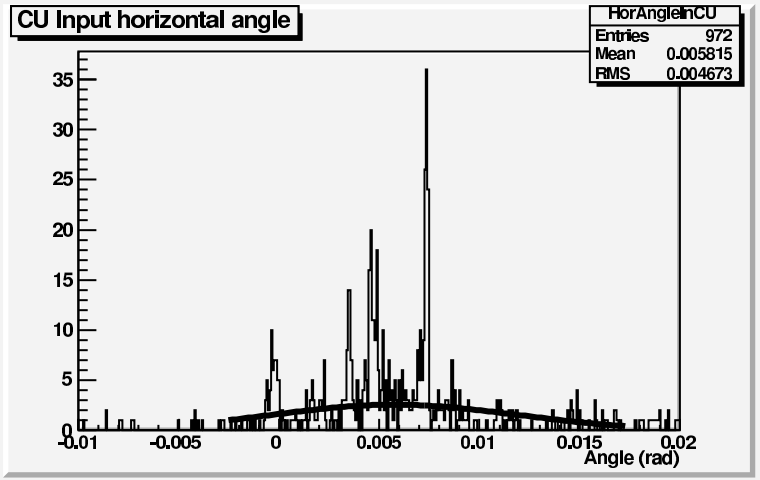

CU Input vertical angle
VertAngleInCU
Entries 96296
Mean 0.002341
RMS 0.00774
Angle (rad)

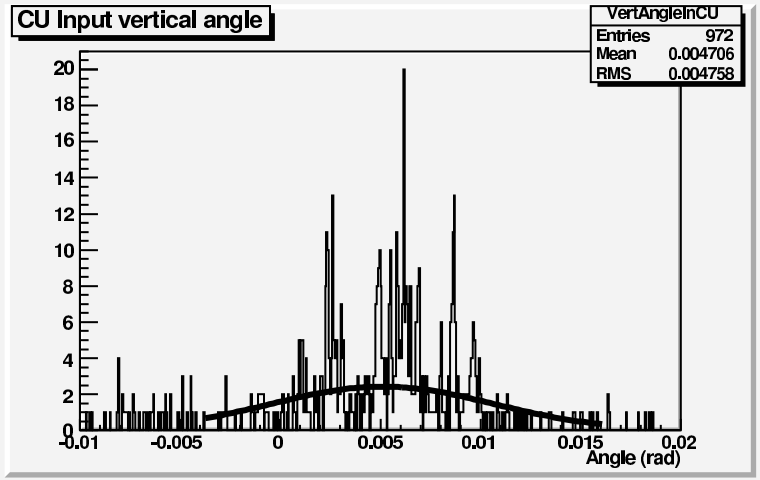

CU Input Beam Spot
SpotCoordInCU
Entries 96296
Mean x 239.6
Mean y 36.78
RMS x 17.29
RMS y 9.289
Vertical Position (mm)
Horizontal Position (mm)

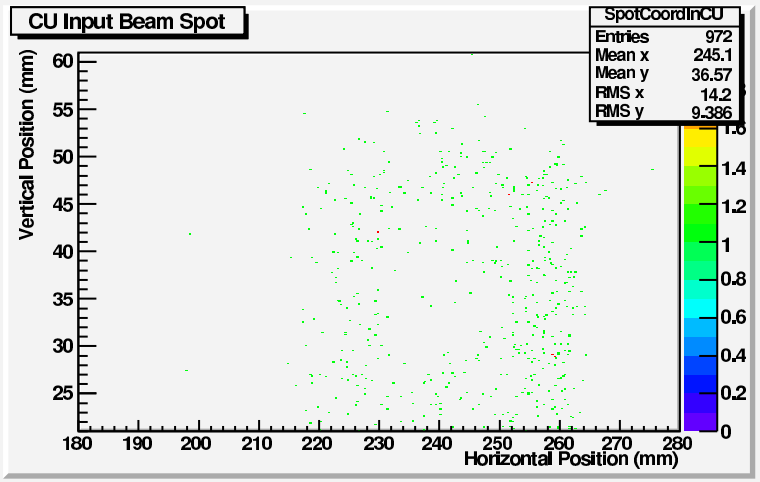

CU Input Beam Spot
SpotAngleInCU
Entries 96296
Mean x -0.0006914
Mean y 0.007847
RMS x 0.009714
RMS y 0.007989
Vertical Angle (rad)
Horizontal Angle (rad)

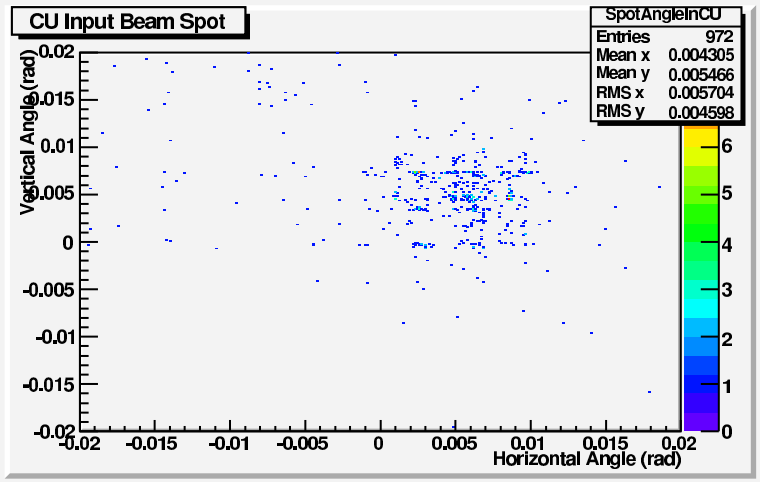

CU Input Horizontal coordinate
HorCoordInCU
Entries 972
Mean 244.1
RMS 26.47
Position (mm)

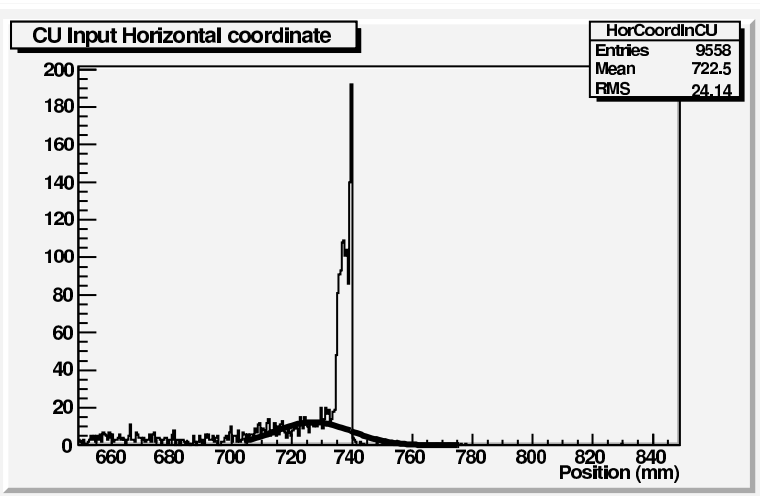

CU Input vertical coordinate
VertCoordInCU
Entries 972
Mean 35.8
RMS 14.99
Position (mm)

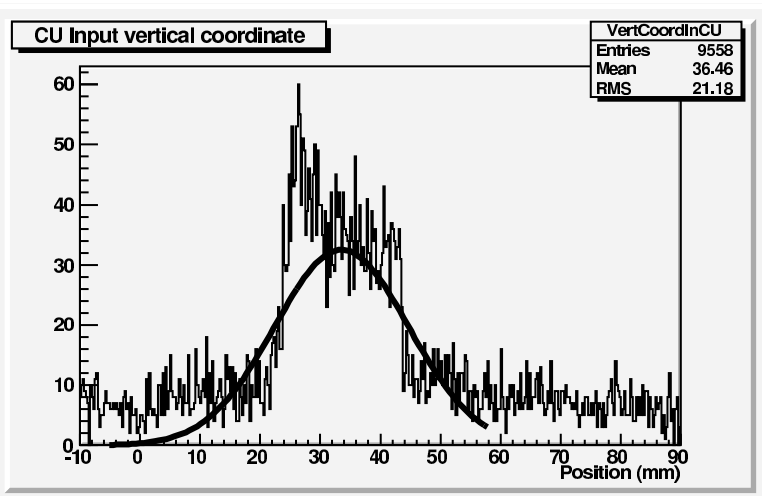

CU Input horizontal angle
HorAngleInCU
Entries 972
Mean 0.005815
RMS 0.004673
Angle (rad)

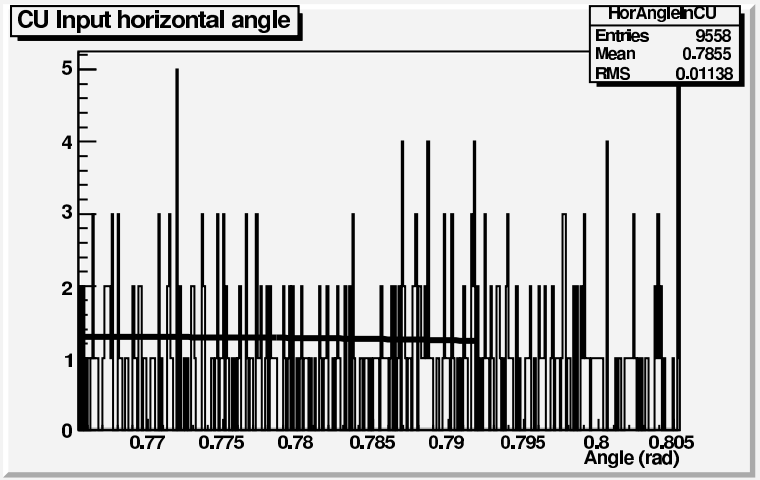

CU Input vertical angle
VertAngleInCU
Entries 972
Mean 0.004706
RMS 0.004758
Angle (rad)

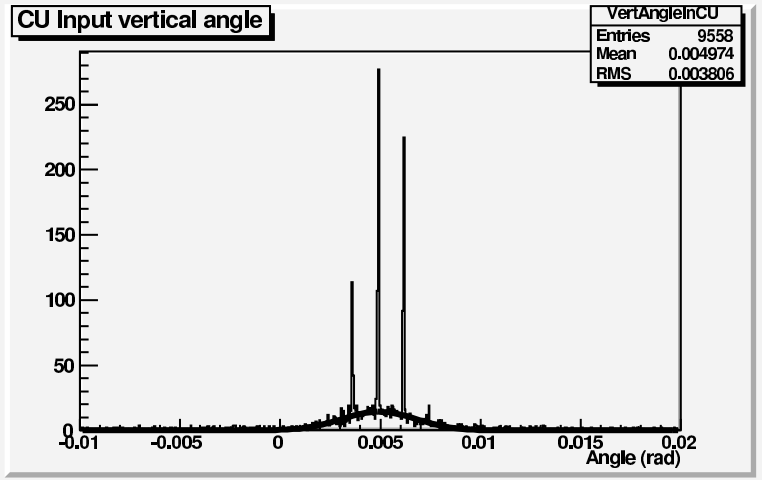

CU Input Beam Spot
SpotCoordInCU
Entries 972
Mean x 245.1
Mean y 36.57
RMS x 14.2
RMS y 9.386
Vertical Position (mm)
Horizontal Position (mm)

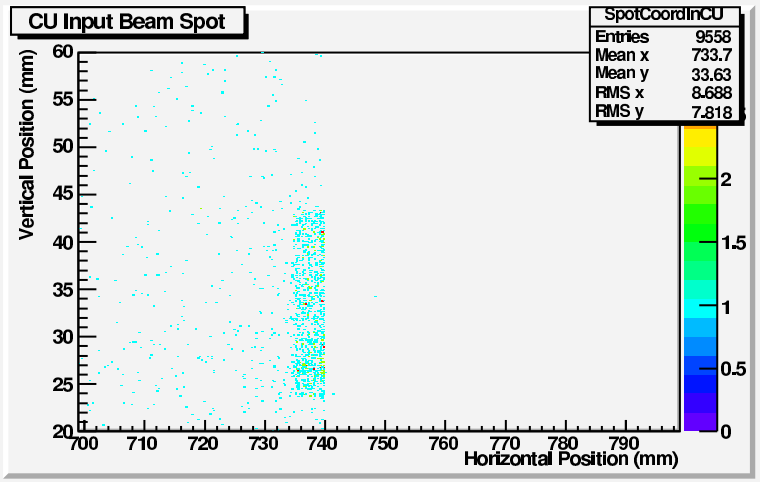

CU Input Beam Spot
SpotAngleInCU
Entries 972
Mean x 0.004305
Mean y 0.005466
RMS x 0.005704
RMS y 0.004598
Vertical Angle (rad)
Horizontal Angle (rad)

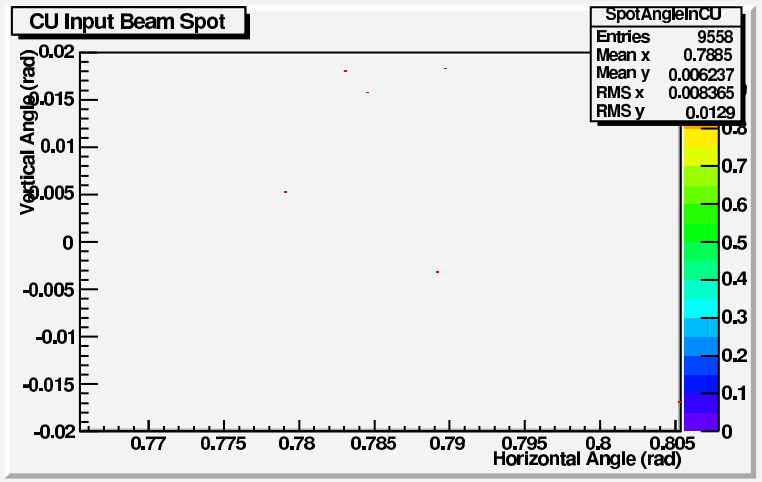

CU Input Horizontal coordinate
HorCoordInCU
Entries 9558
Mean 722.5
RMS 24.14
Position (mm)

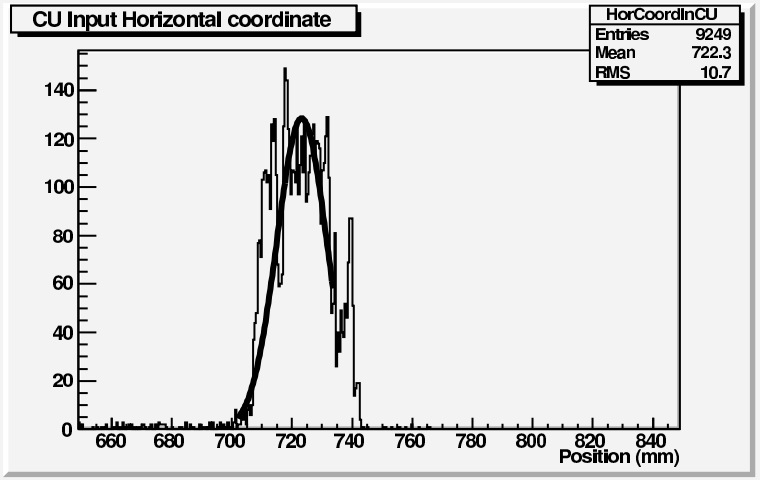

CU Input vertical coordinate
VertCoordInCU
Entries 9558
Mean 36.46
RMS 21.18
Position (mm)

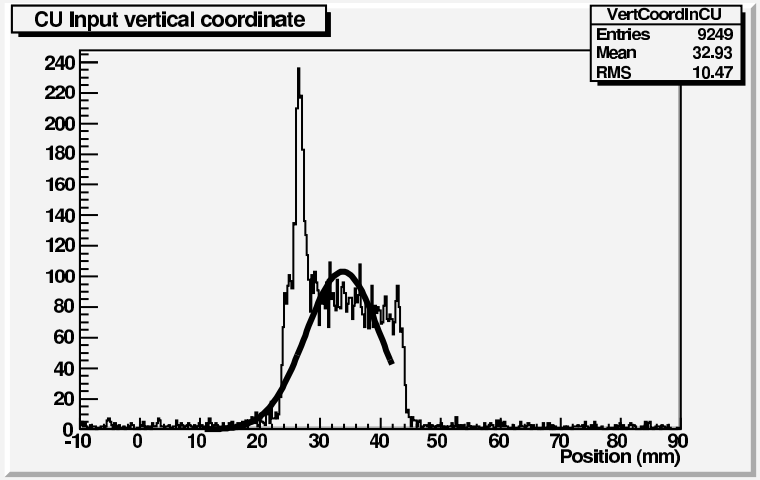

CU Input horizontal angle
HorAngleInCU
Entries 9558
Mean 0.7855
RMS 0.01138
Angle (rad)

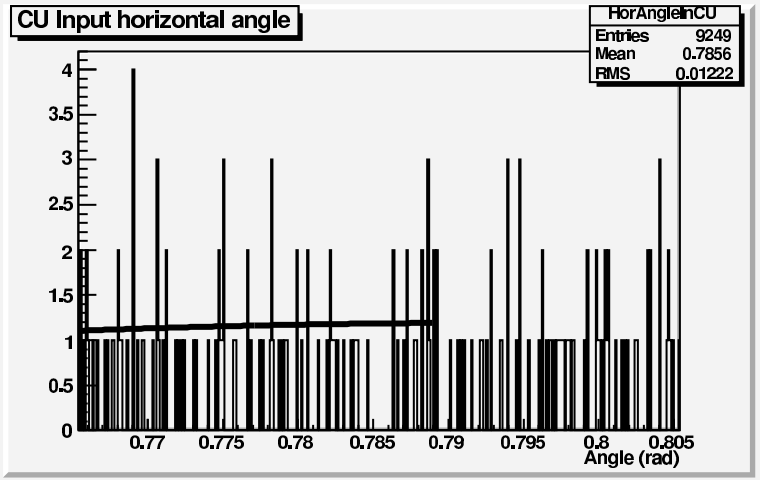

CU Input vertical angle
VertAngleInCU
Entries 9558
Mean 0.004974
RMS 0.003806
Angle (rad)

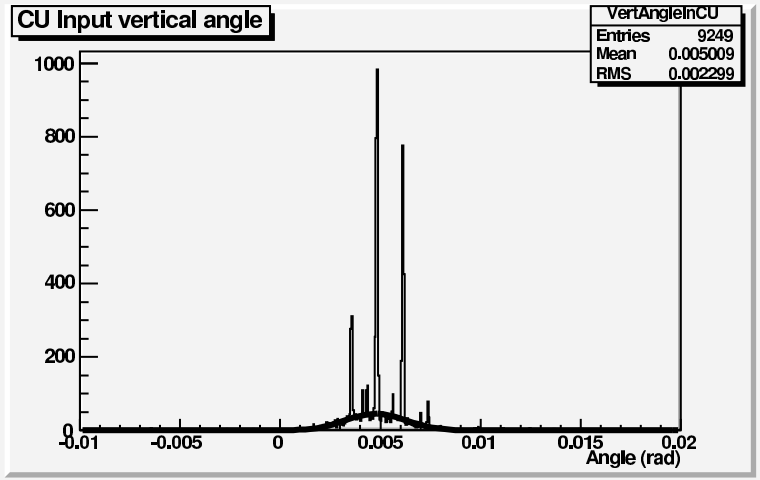

CU Input Beam Spot
SpotCoordInCU
Entries 9558
Mean x 733.7
Mean y 33.63
RMS x 8.688
RMS y 7.818
Vertical Position (mm)
Horizontal Position (mm)

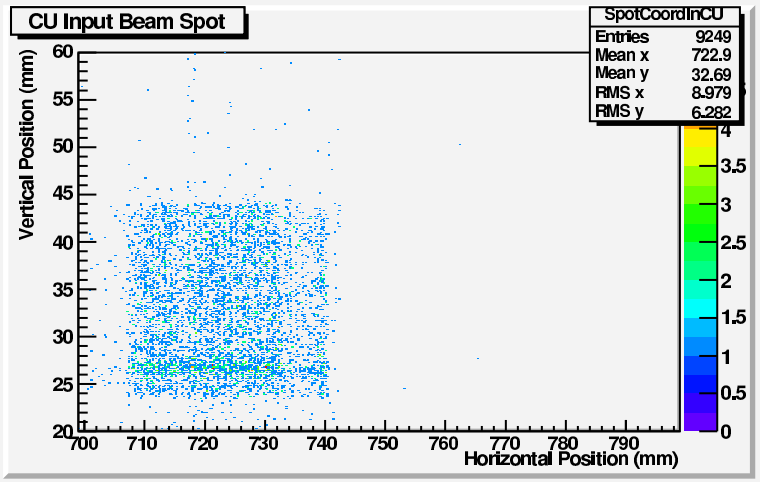

CU Input Beam Spot
SpotAngleInCU
Entries 9558
Mean x 0.7885
Mean y 0.006237
RMS x 0.008365
RMS y 0.0129
Vertical Angle (rad)
Horizontal Angle (rad)

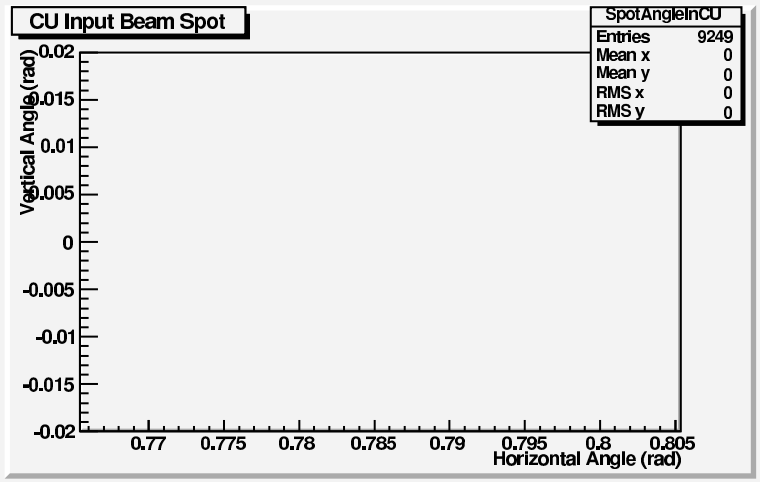

CU Input Horizontal coordinate
HorCoordInCU
Entries 9249
Mean 722.3
RMS 10.7
Position (mm)

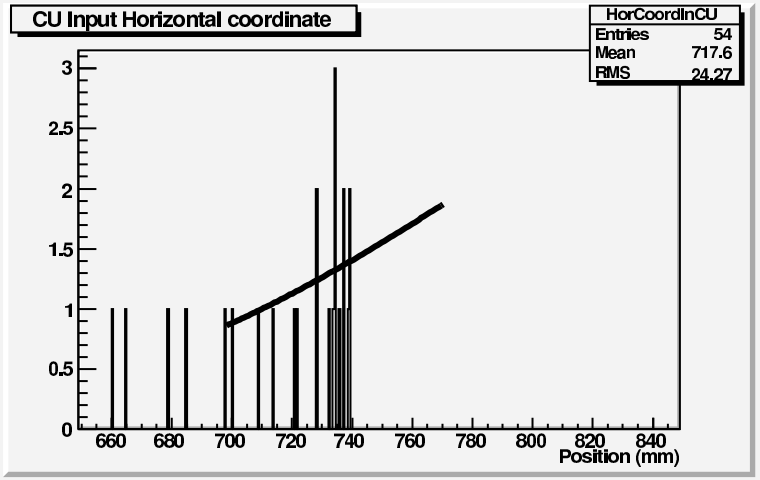

CU Input vertical coordinate
VertCoordInCU
Entries 9249
Mean 32.93
RMS 10.47
Position (mm)

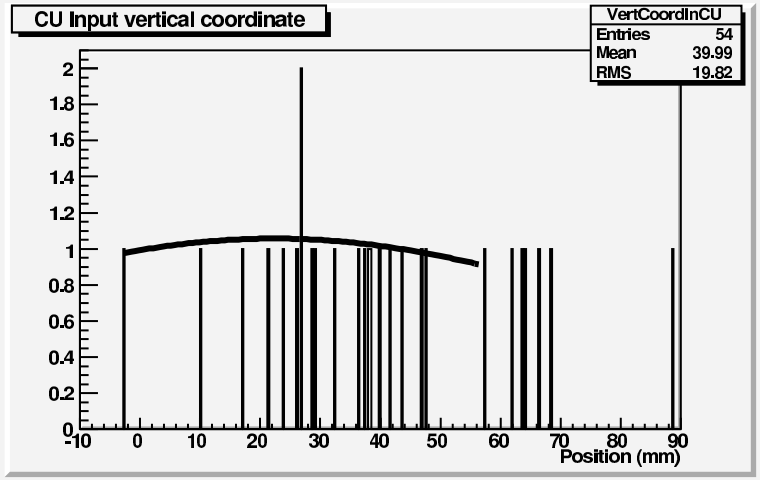

CU Input horizontal angle
HorAngleInCU
Entries 9249
Mean 0.7856
RMS 0.01222
Angle (rad)

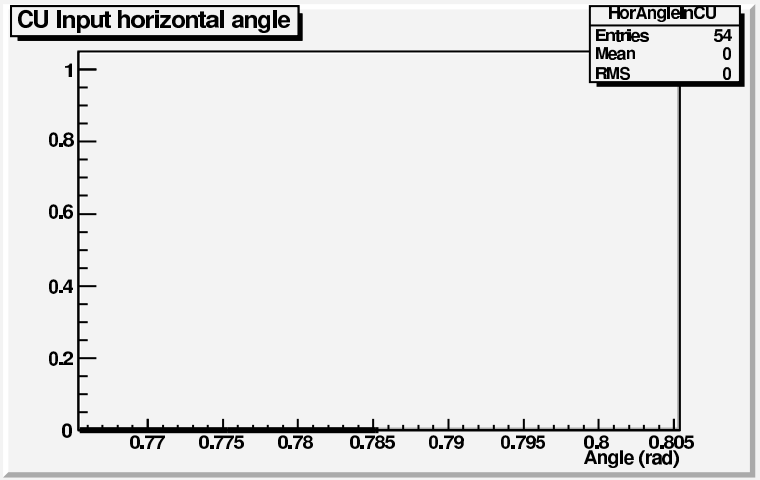

CU Input vertical angle
VertAngleInCU
Entries 9249
Mean 0.005009
RMS 0.002299
Angle (rad)

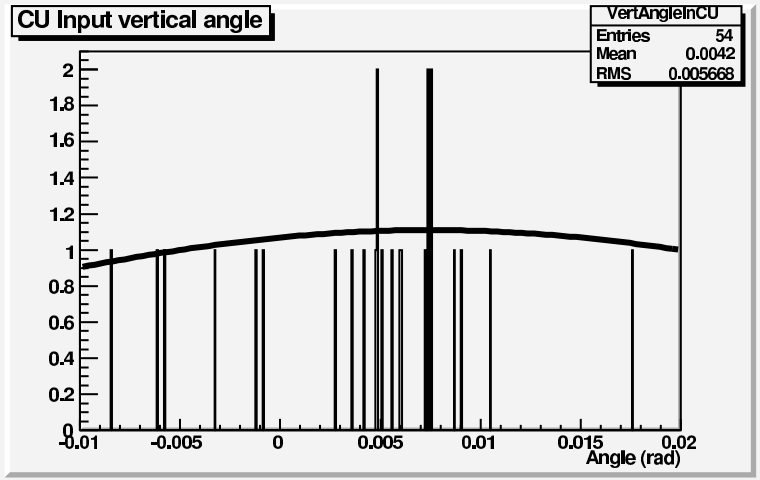

CU Input Beam Spot
SpotCoordInCU
Entries 9249
Mean x 722.9
Mean y 32.69
RMS x 8.979
RMS y 6.282
Vertical Position (mm)
Horizontal Position (mm)

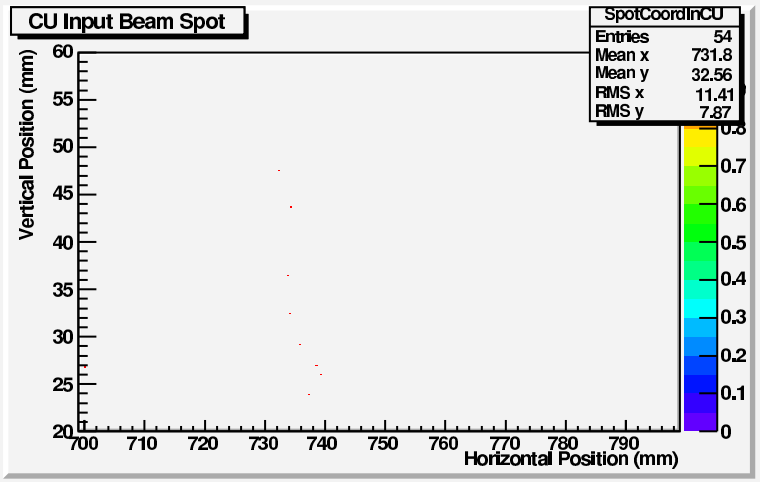

CU Input Beam Spot
SpotAngleInCU
Entries 9249
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

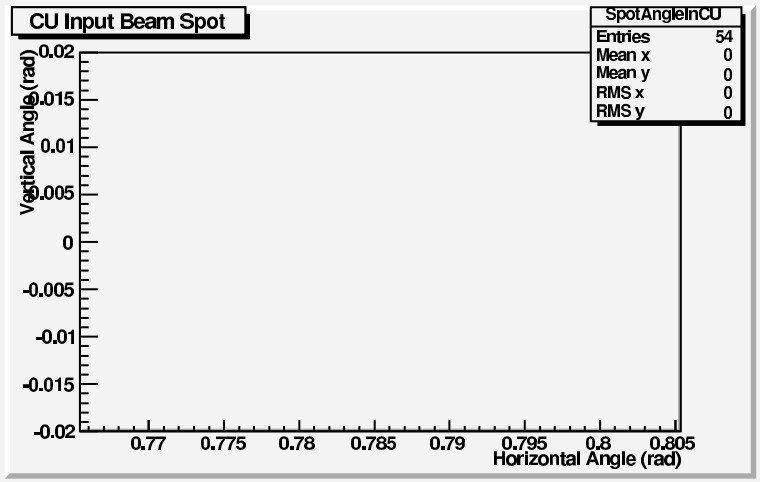

CU Input Horizontal coordinate
HorCoordInCU
Entries 54
Mean 717.6
RMS 24.27
Position (mm)

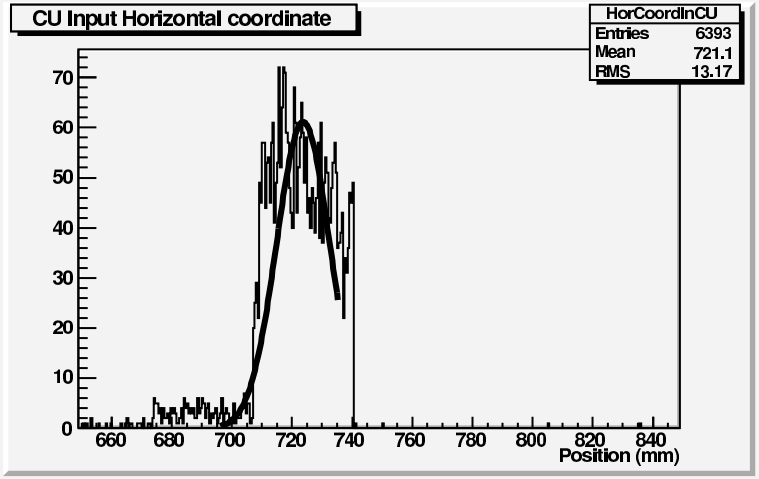

CU Input vertical coordinate
VertCoordInCU
Entries 54
Mean 39.99
RMS 19.82
Position (mm)

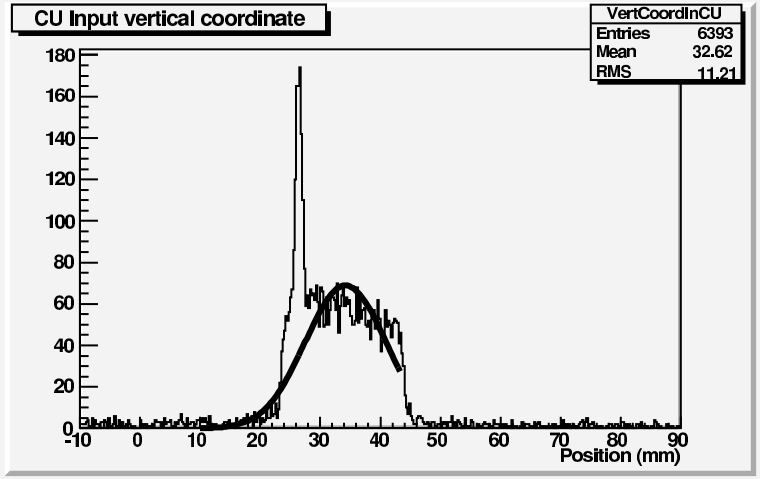

CU Input horizontal angle
HorAngleInCU
Entries 54
Mean 0
RMS 0
Angle (rad)

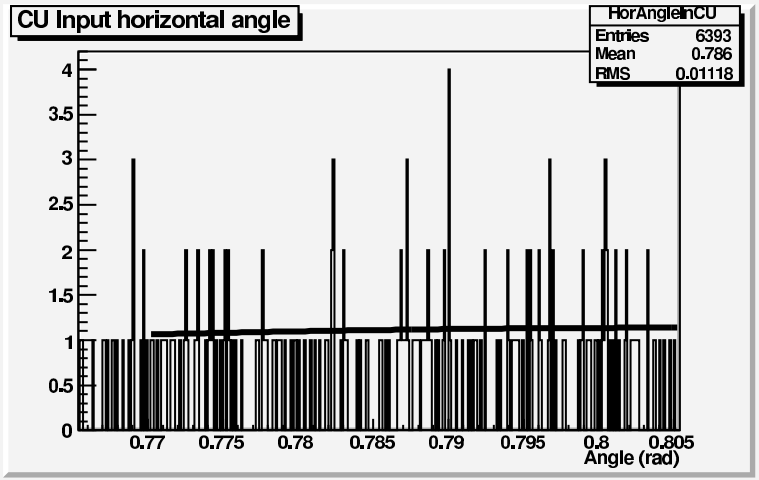

CU Input vertical angle
VertAngleInCU
Entries 54
Mean 0.0042
RMS 0.005668
Angle (rad)

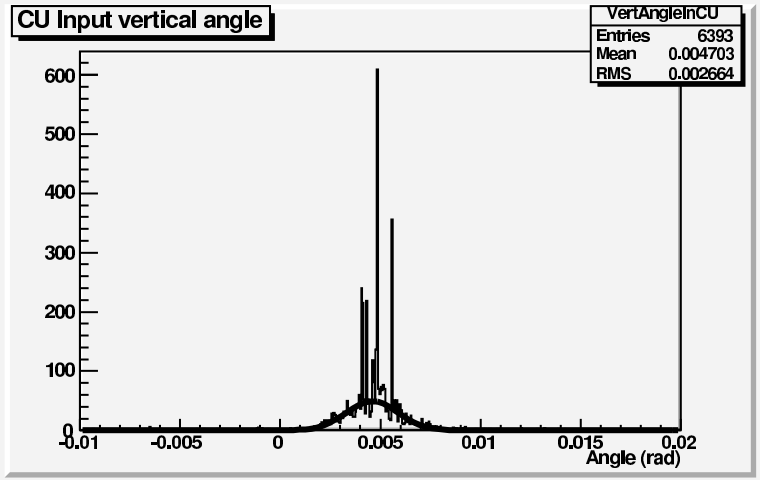

CU Input Beam Spot
SpotCoordInCU
Entries 54
Mean x 731.8
Mean y 32.56
RMS x 11.41
RMS y 7.87
Vertical Position (mm)
Horizontal Position (mm)

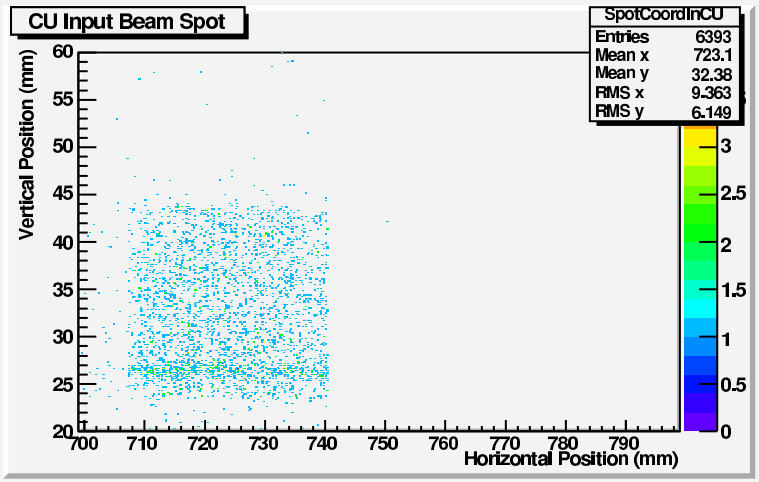

CU Input Beam Spot
SpotAngleInCU
Entries 54
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

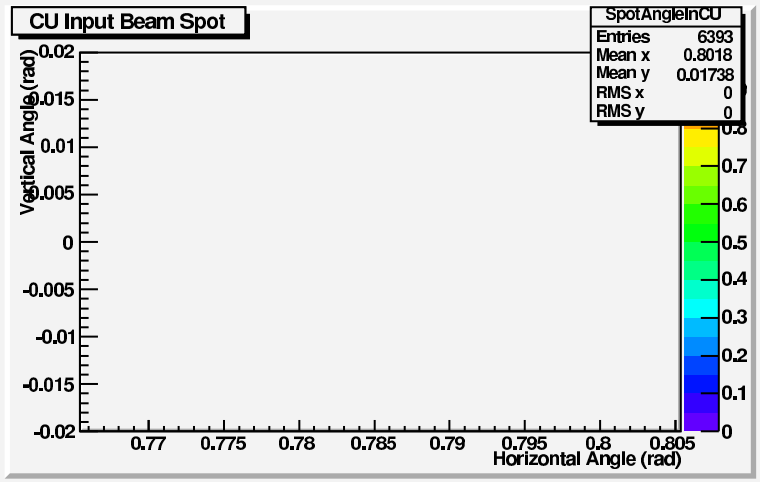

CU Input Horizontal coordinate
HorCoordInCU
Entries 6393
Mean 721.1
RMS 13.17
Position (mm)

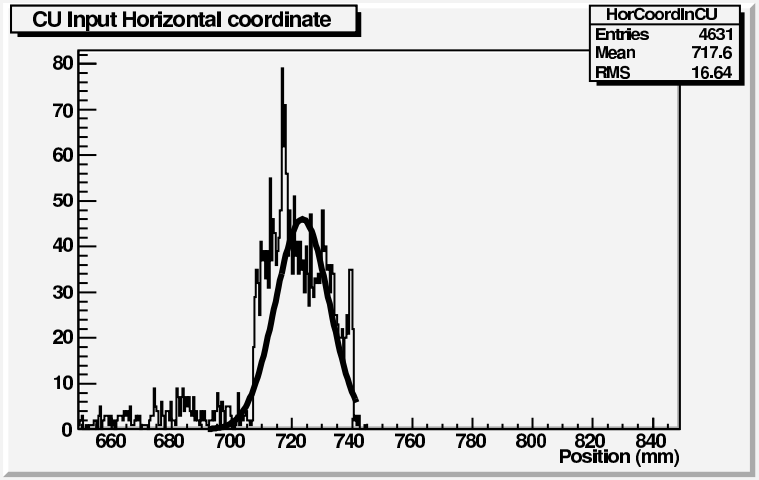

CU Input vertical coordinate
VertCoordInCU
Entries 6393
Mean 32.62
RMS 11.21
Position (mm)

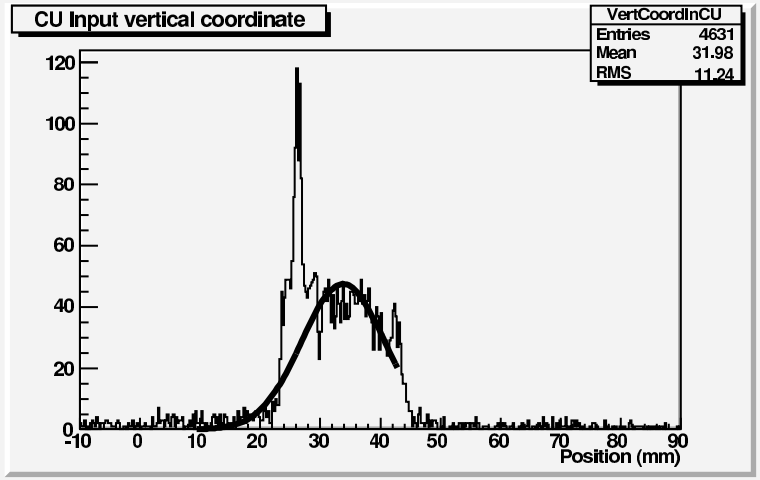

CU Input horizontal angle
HorAngleInCU
Entries 6393
Mean 0.786
RMS 0.01118
Angle (rad)

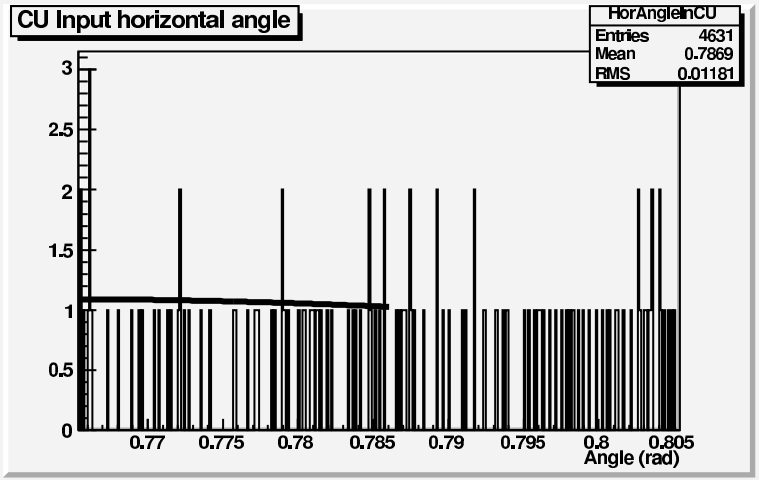

CU Input vertical angle
VertAngleInCU
Entries 6393
Mean 0.004703
RMS 0.002664
Angle (rad)

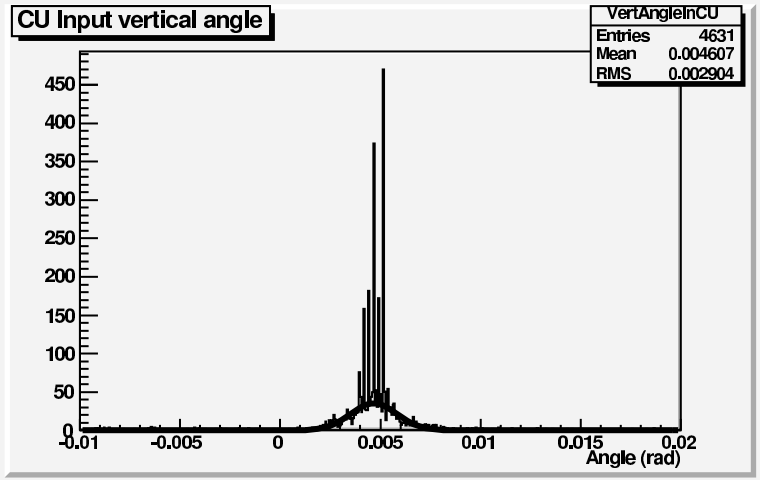

CU Input Beam Spot
SpotCoordInCU
Entries 6393
Mean x 723.1
Mean y 32.38
RMS x 9.363
RMS y 6.149
Vertical Position (mm)
Horizontal Position (mm)

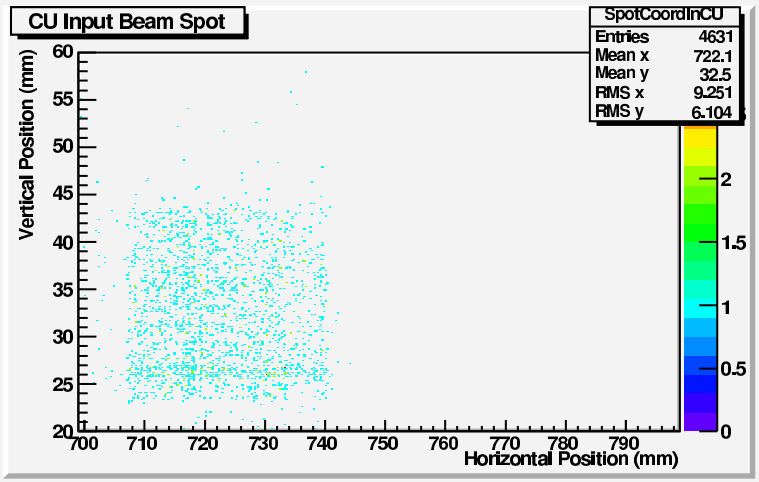

CU Input Beam Spot
SpotAngleInCU
Entries 6393
Mean x 0.8018
Mean y 0.01738
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

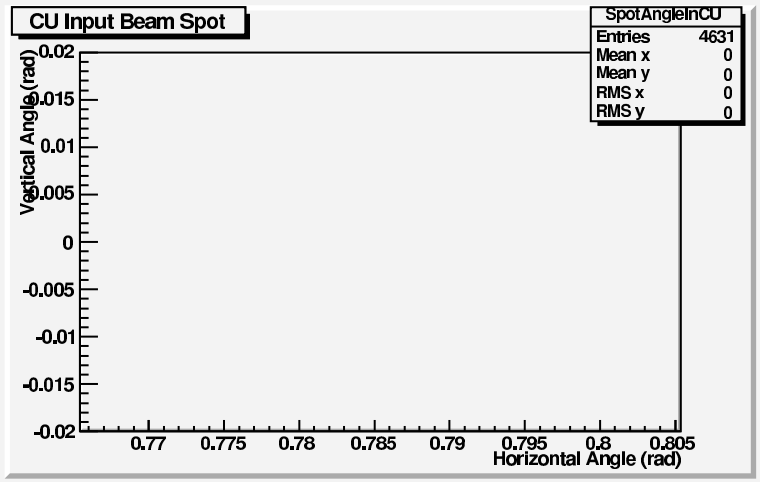

CU Input Horizontal coordinate
HorCoordInCU
Entries 4631
Mean 717.6
RMS 16.64
Position (mm)

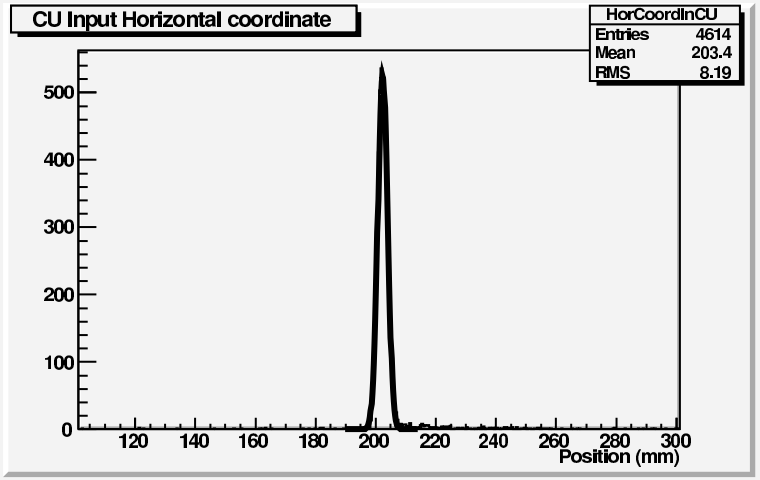

CU Input vertical coordinate
VertCoordInCU
Entries 4631
Mean 31.98
RMS 11.24
Position (mm)

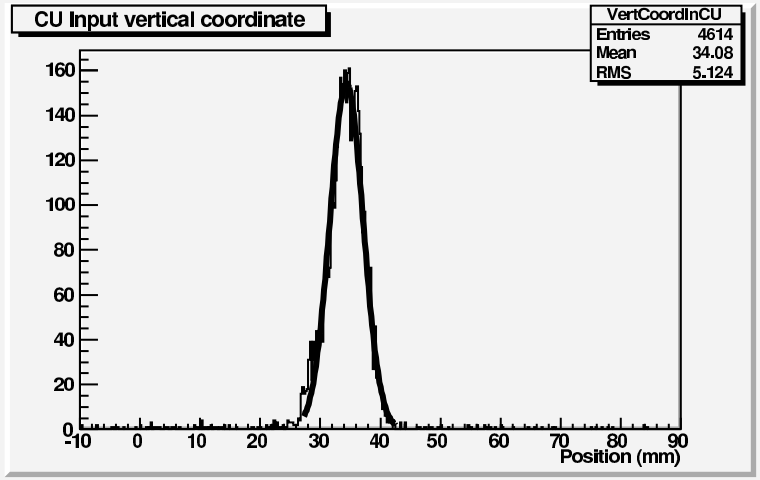

CU Input horizontal angle
HorAngleInCU
Entries 4631
Mean 0.7869
RMS 0.01181
Angle (rad)

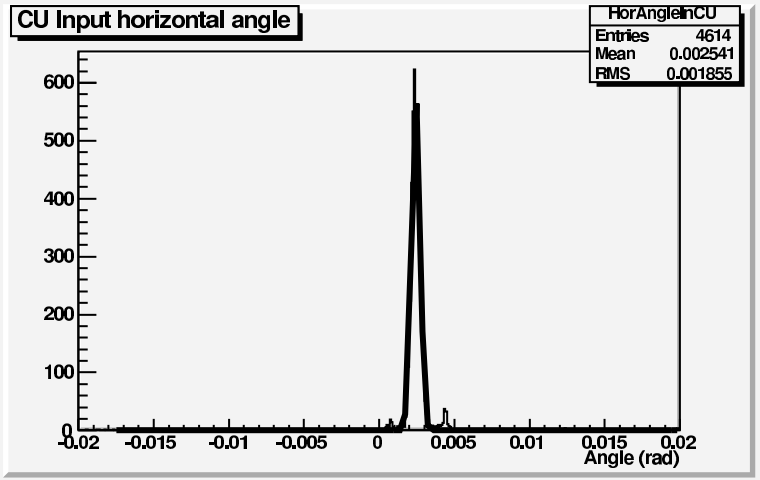

CU Input vertical angle
VertAngleInCU
Entries 4631
Mean 0.004607
RMS 0.002904
Angle (rad)

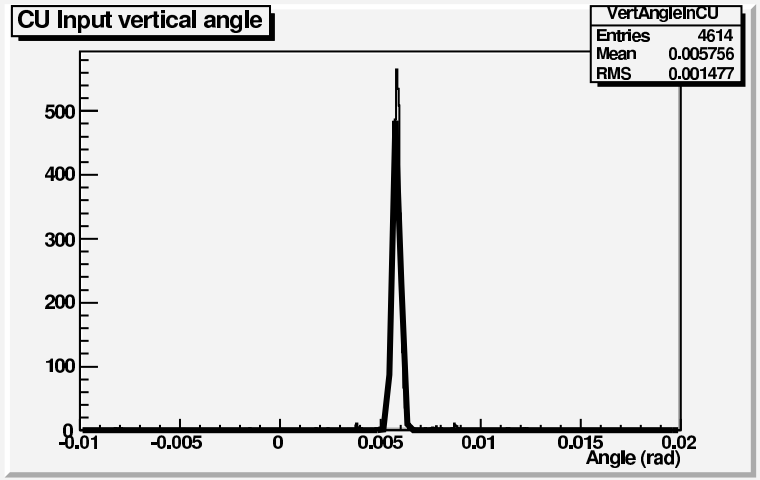

CU Input Beam Spot
SpotCoordInCU
Entries 4631
Mean x 722.1
Mean y 32.5
RMS x 9.251
RMS y 6.104
Vertical Position (mm)
Horizontal Position (mm)

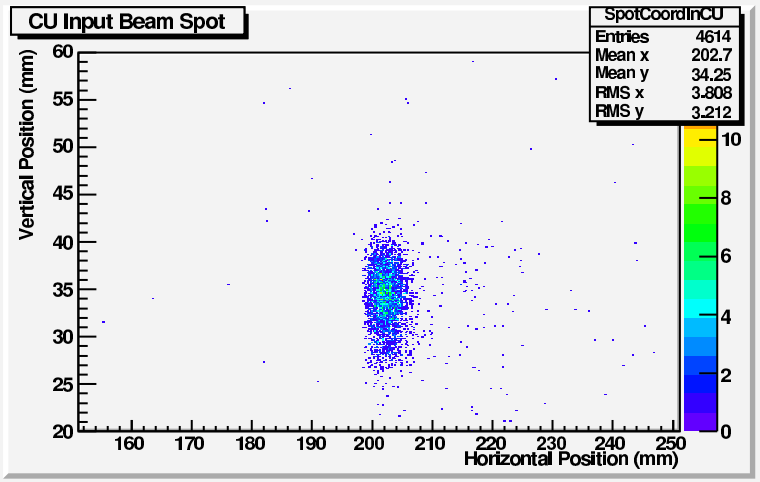

CU Input Beam Spot
SpotAngleInCU
Entries 4631
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

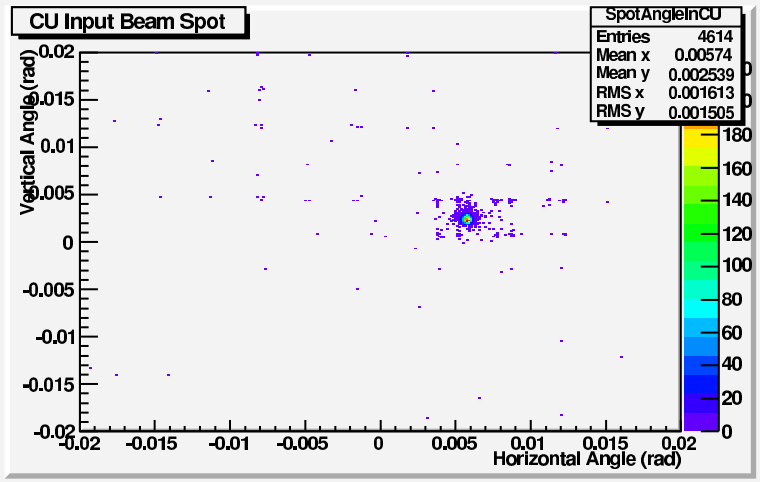

CU Input Horizontal coordinate
HorCoordInCU
Entries 4614
Mean 203.4
RMS 8.19
Position (mm)

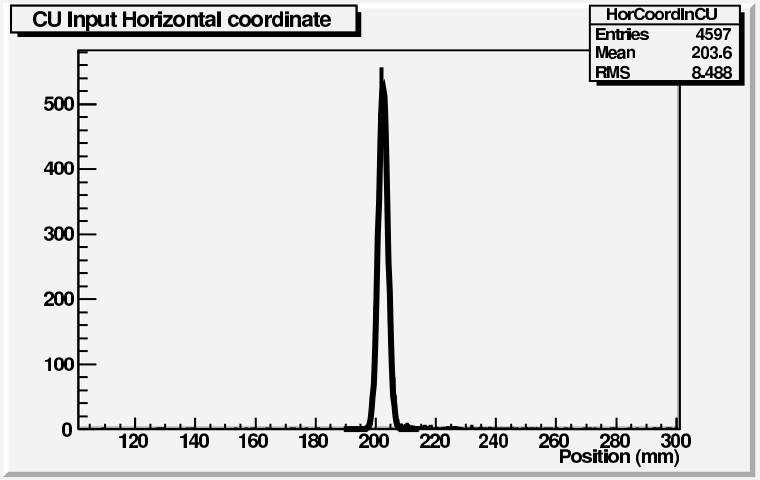

CU Input vertical coordinate
VertCoordInCU
Entries 4614
Mean 34.08
RMS 5.124
Position (mm)

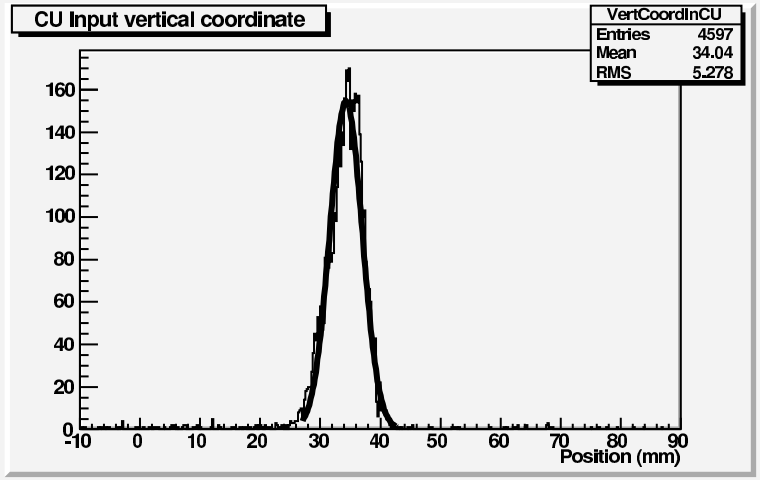

CU Input horizontal angle
HorAngleInCU
Entries 4614
Mean 0.002541
RMS 0.001855
Angle (rad)

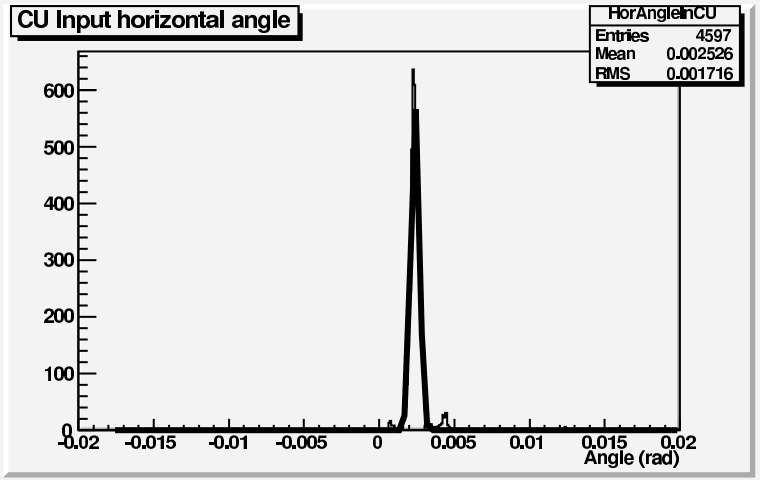

CU Input vertical angle
VertAngleInCU
Entries 4614
Mean 0.005756
RMS 0.001477
Angle (rad)

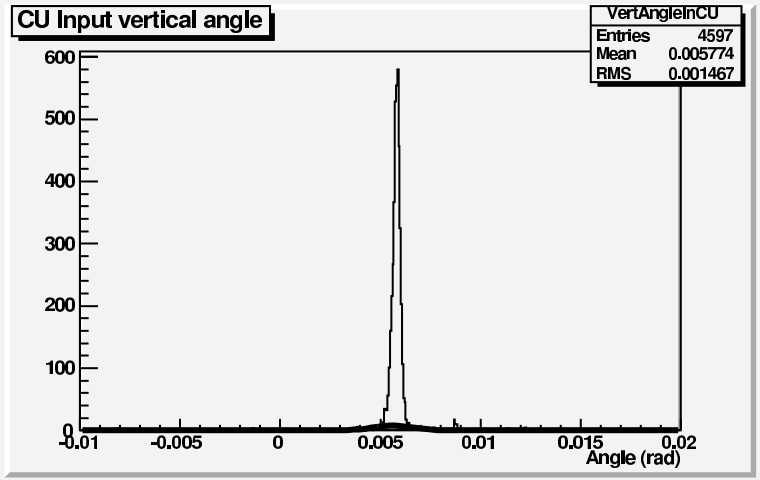

CU Input Beam Spot
SpotCoordInCU
Entries 4614
Mean x 202.7
Mean y 34.25
RMS x 3.808
RMS y 3.212
Vertical Position (mm)
Horizontal Position (mm)

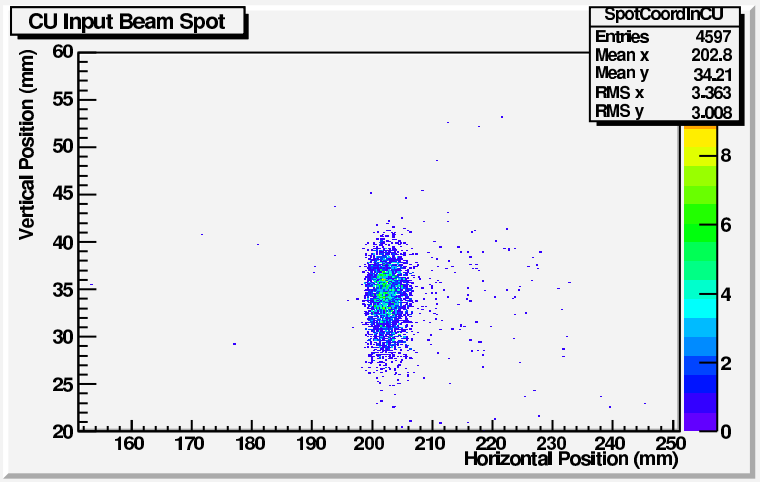

CU Input Beam Spot
SpotAngleInCU
Entries 4614
Mean x 0.00574
Mean y 0.002539
RMS x 0.001613
RMS y 0.001505
Vertical Angle (rad)
Horizontal Angle (rad)

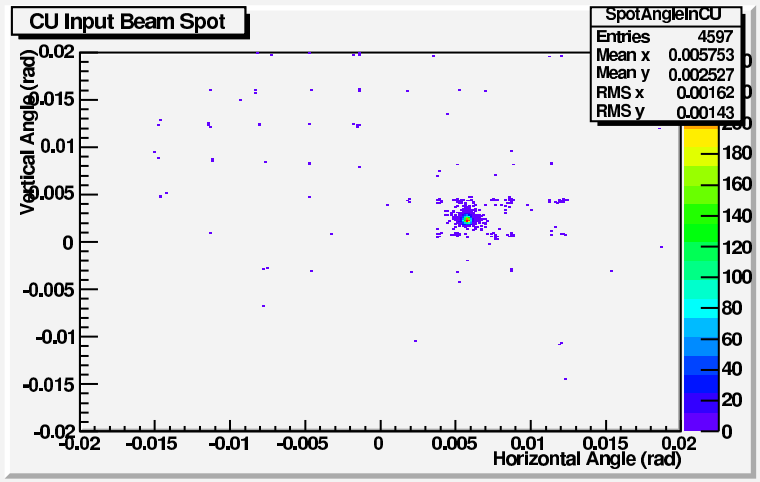

CU Input Horizontal coordinate
HorCoordInCU
Entries 4597
Mean 203.6
RMS 8.488
Position (mm)

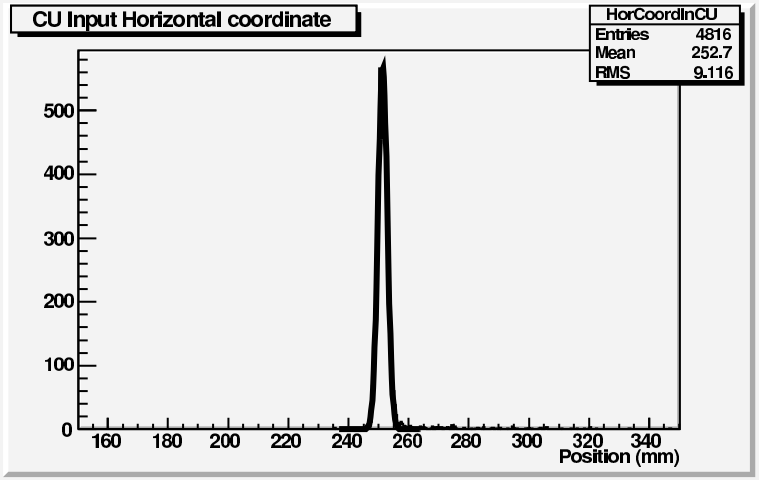

CU Input vertical coordinate
VertCoordInCU
Entries 4597
Mean 34.04
RMS 5.278
Position (mm)

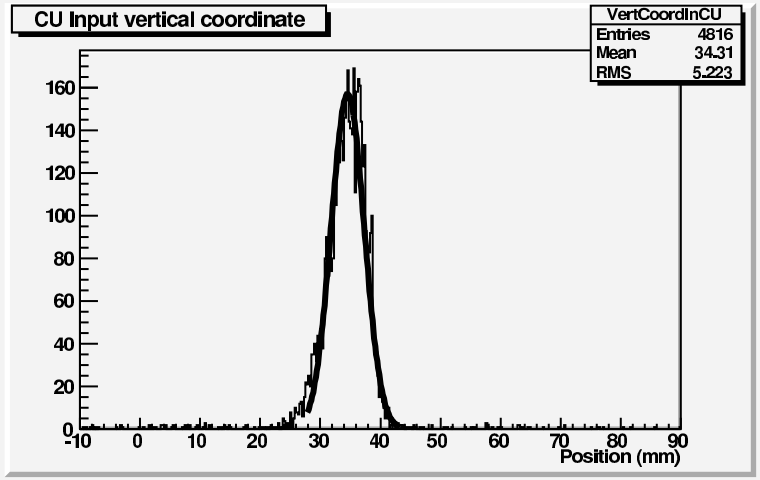

CU Input horizontal angle
HorAngleInCU
Entries 4597
Mean 0.002526
RMS 0.001716
Angle (rad)

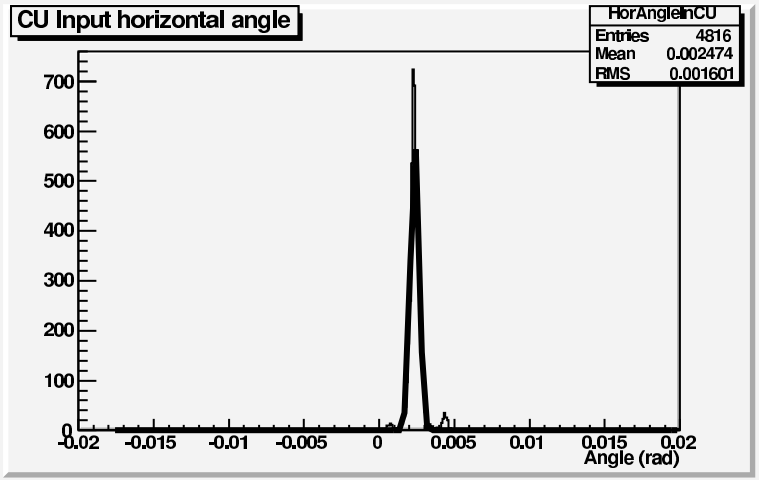

CU Input vertical angle
VertAngleInCU
Entries 4597
Mean 0.005774
RMS 0.001467
Angle (rad)

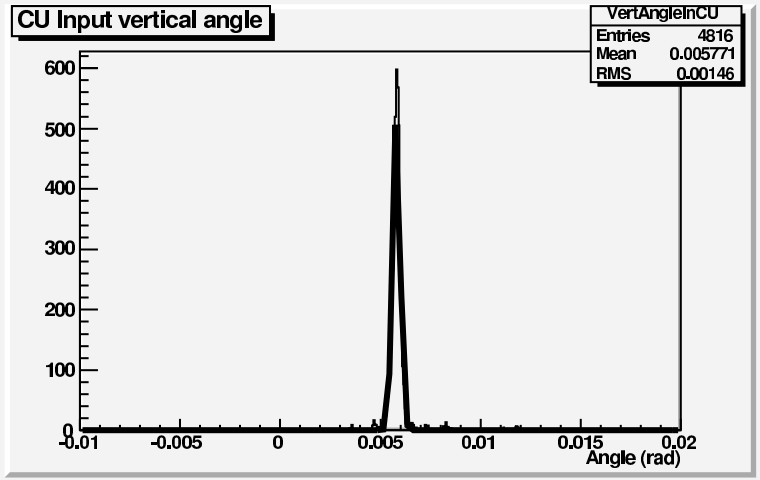

CU Input Beam Spot
SpotCoordInCU
Entries 4597
Mean x 202.8
Mean y 34.21
RMS x 3.363
RMS y 3.008
Vertical Position (mm)
Horizontal Position (mm)

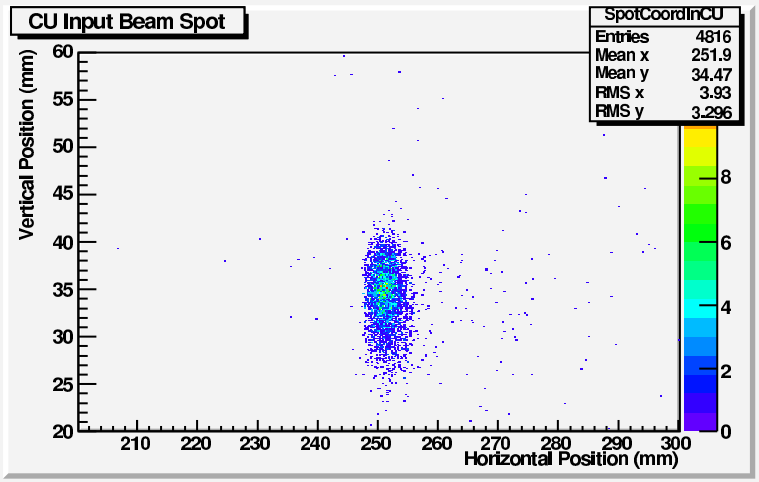

CU Input Beam Spot
SpotAngleInCU
Entries 4597
Mean x 0.005753
Mean y 0.002527
RMS x 0.00162
RMS y 0.00143
Vertical Angle (rad)
Horizontal Angle (rad)

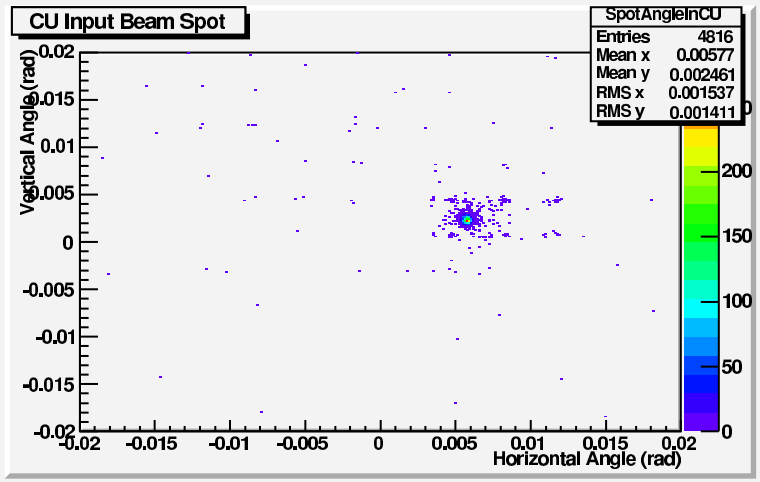

CU Input Horizontal coordinate
HorCoordInCU
Entries 4816
Mean 252.7
RMS 9.116
Position (mm)

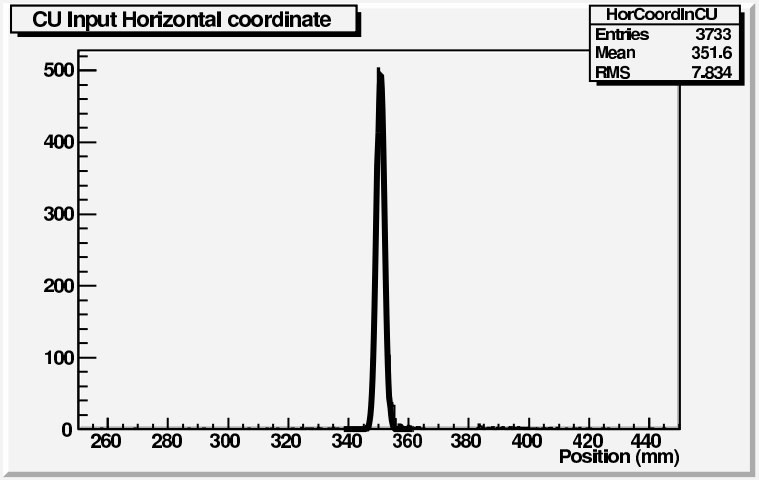

CU Input vertical coordinate
VertCoordInCU
Entries 4816
Mean 34.31
RMS 5.223
Position (mm)

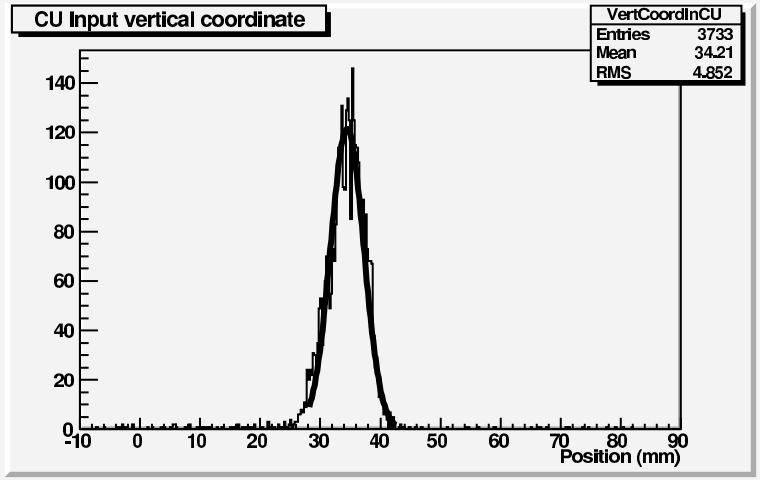

CU Input horizontal angle
HorAngleInCU
Entries 4816
Mean 0.002474
RMS 0.001601
Angle (rad)

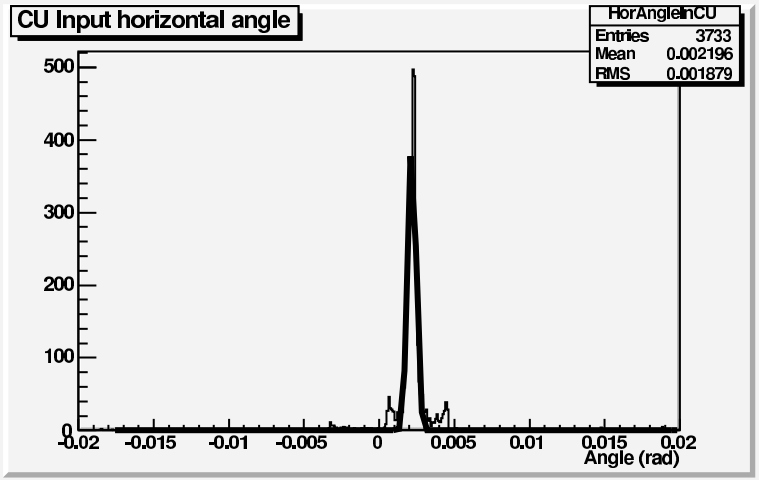

CU Input vertical angle
VertAngleInCU
Entries 4816
Mean 0.005771
RMS 0.00146
Angle (rad)

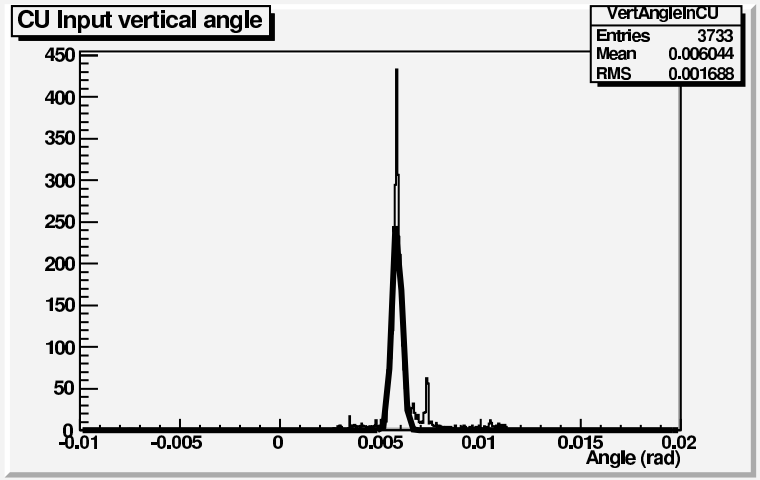

CU Input Beam Spot
SpotCoordInCU
Entries 4816
Mean x 251.9
Mean y 34.47
RMS x 3.93
RMS y 3.296
Vertical Position (mm)
Horizontal Position (mm)

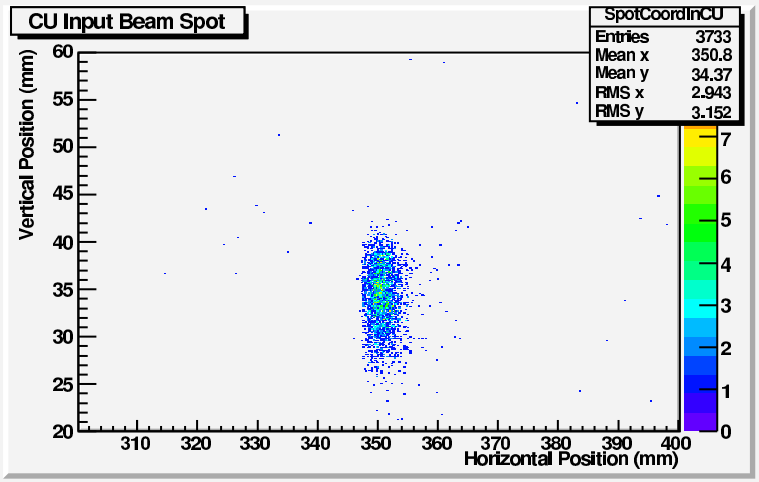

CU Input Beam Spot
SpotAngleInCU
Entries 4816
Mean x 0.00577
Mean y 0.002461
RMS x 0.001537
RMS y 0.001411
Vertical Angle (rad)
Horizontal Angle (rad)

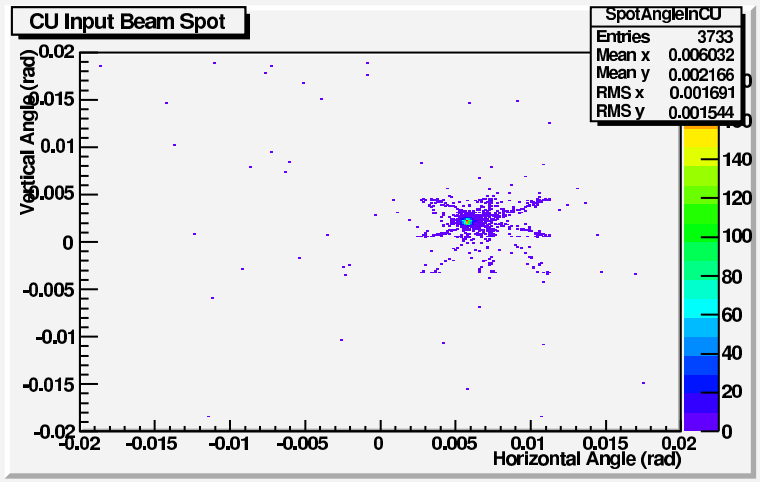

CU Input Horizontal coordinate
HorCoordInCU
Entries 3733
Mean 351.6
RMS 7.834
Position (mm)

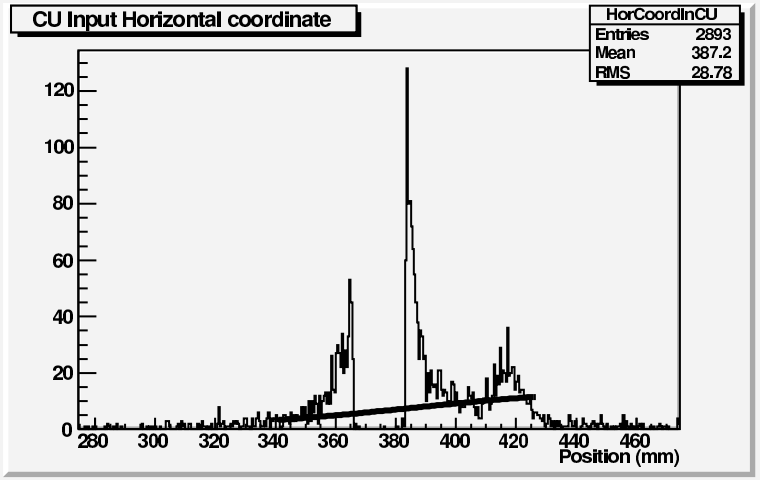

CU Input vertical coordinate
VertCoordInCU
Entries 3733
Mean 34.21
RMS 4.852
Position (mm)

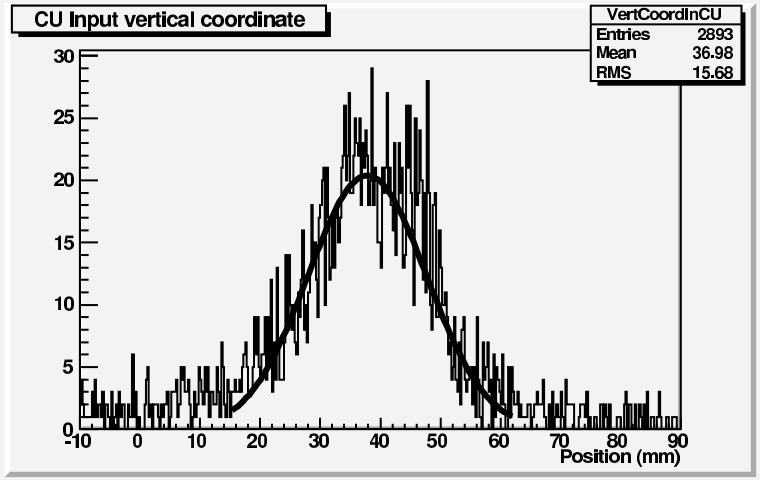

CU Input horizontal angle
HorAngleInCU
Entries 3733
Mean 0.002196
RMS 0.001879
Angle (rad)

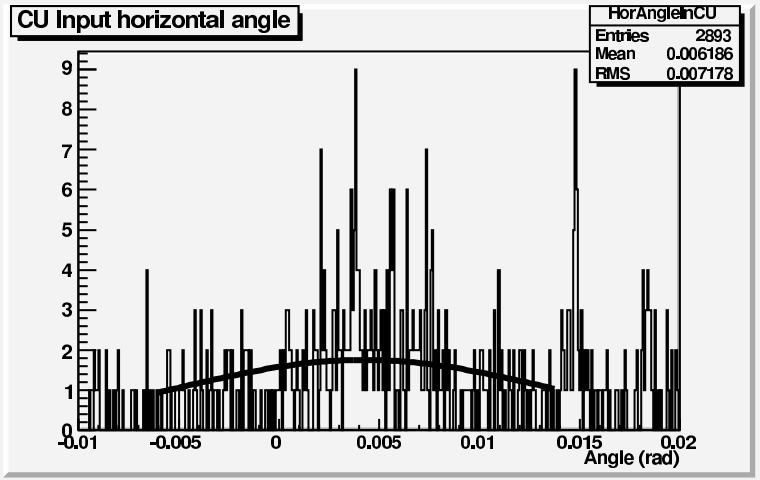

CU Input vertical angle
VertAngleInCU
Entries 3733
Mean 0.006044
RMS 0.001688
Angle (rad)

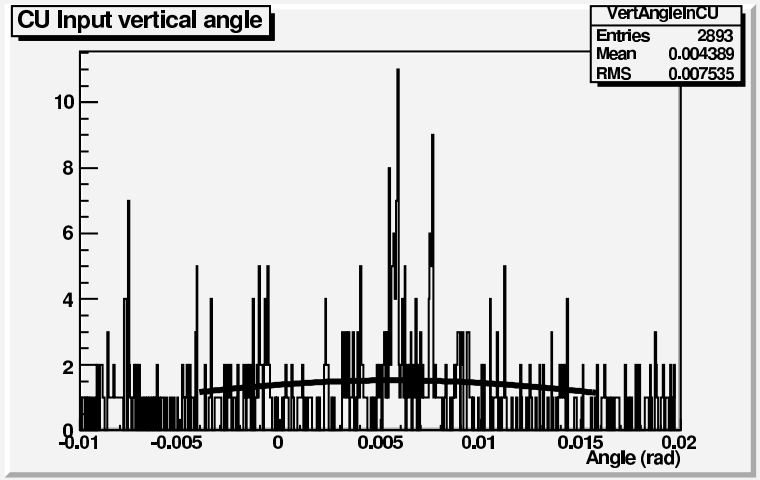

CU Input Beam Spot
SpotCoordInCU
Entries 3733
Mean x 350.8
Mean y 34.37
RMS x 2.943
RMS y 3.152
Vertical Position (mm)
Horizontal Position (mm)

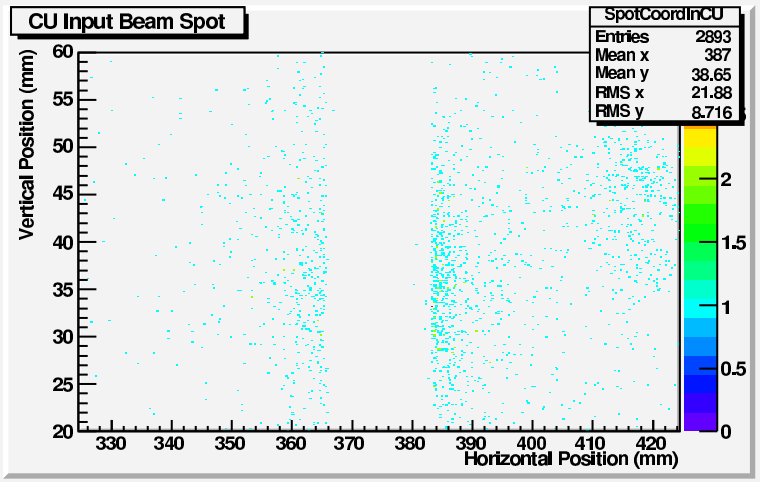

CU Input Beam Spot
SpotAngleInCU
Entries 3733
Mean x 0.006032
Mean y 0.002166
RMS x 0.001691
RMS y 0.001544
Vertical Angle (rad)
Horizontal Angle (rad)

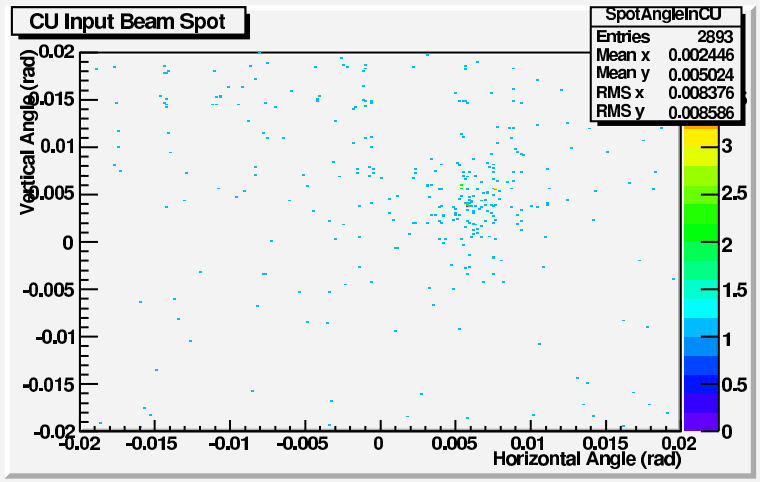

CU Input Horizontal coordinate
HorCoordInCU
Entries 2893
Mean 387.2
RMS 28.78
Position (mm)

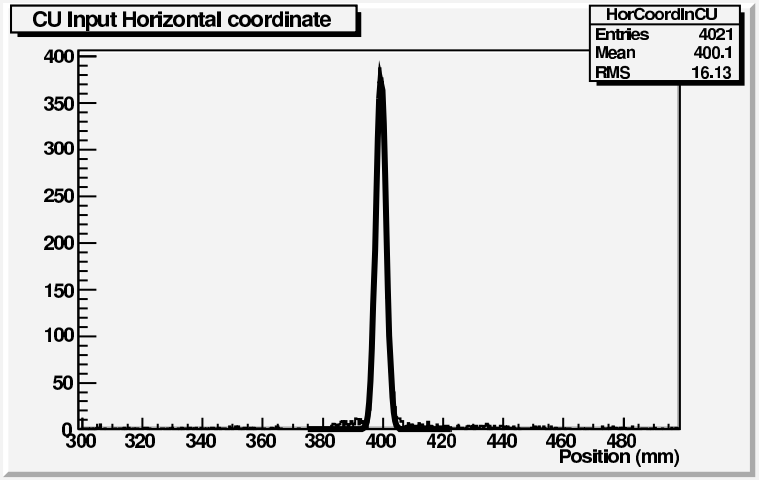

CU Input vertical coordinate
VertCoordInCU
Entries 2893
Mean 36.98
RMS 15.68
Position (mm)

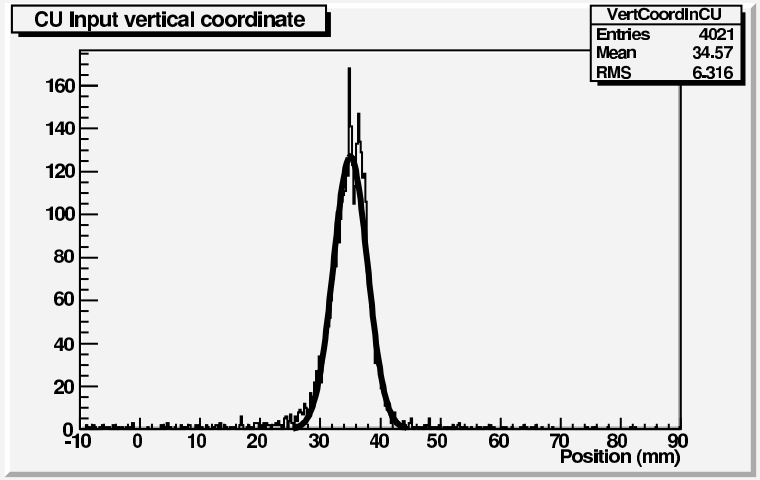

CU Input horizontal angle
HorAngleInCU
Entries 2893
Mean 0.006186
RMS 0.007178
Angle (rad)

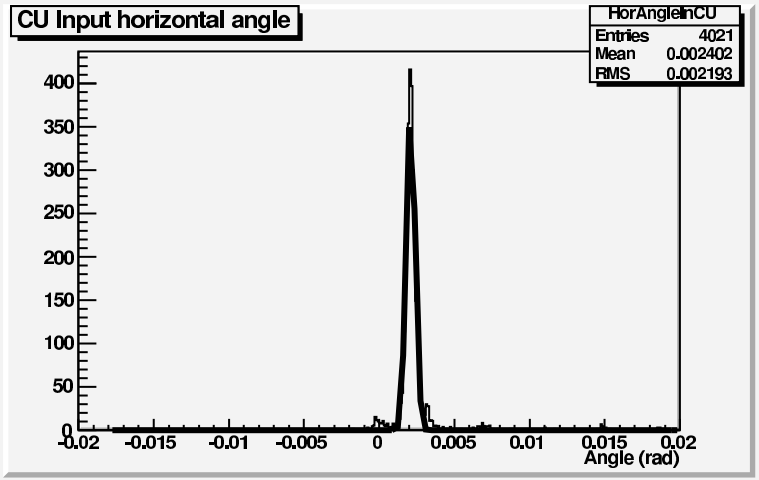

CU Input vertical angle
VertAngleInCU
Entries 2893
Mean 0.004389
RMS 0.007535
Angle (rad)

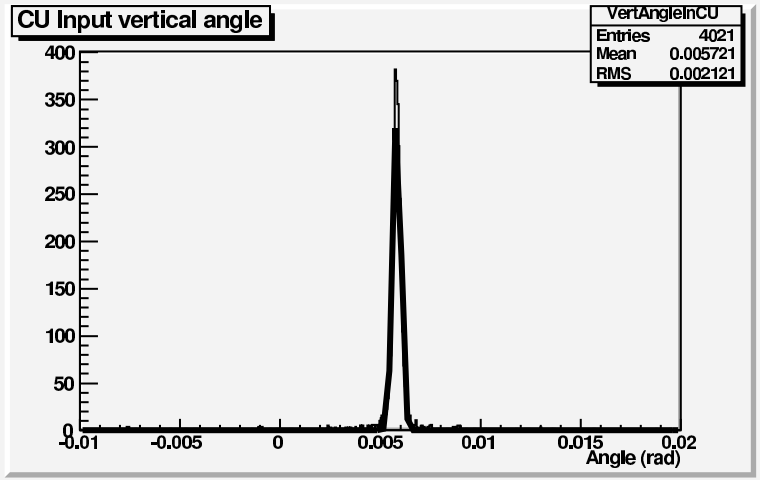

CU Input Beam Spot
SpotCoordInCU
Entries 2893
Mean x 387
Mean y 38.65
RMS x 21.88
RMS y 8.716
Vertical Position (mm)
Horizontal Position (mm)

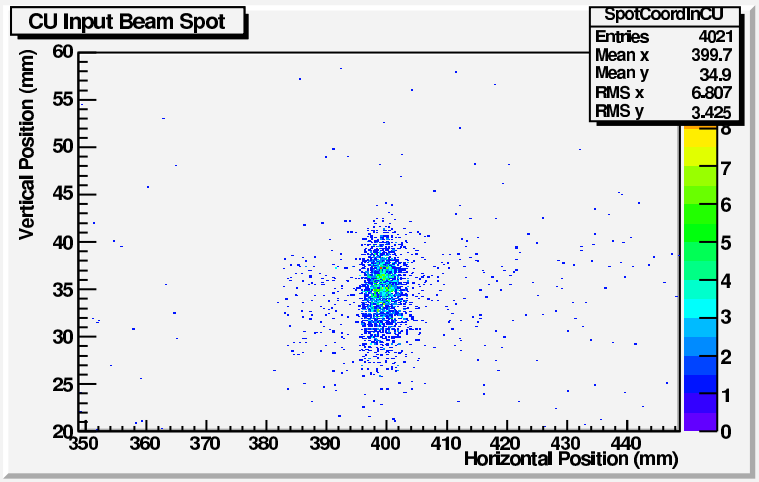

CU Input Beam Spot
SpotAngleInCU
Entries 2893
Mean x 0.002446
Mean y 0.005024
RMS x 0.008376
RMS y 0.008586
Vertical Angle (rad)
Horizontal Angle (rad)

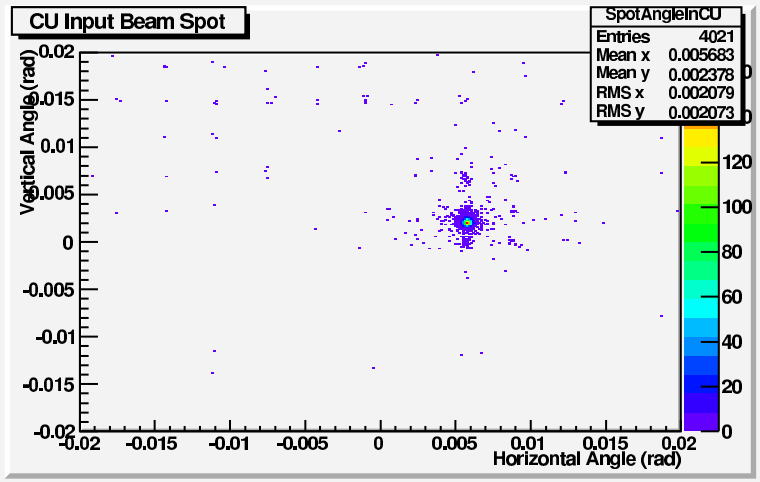

CU Input Horizontal coordinate
HorCoordInCU
Entries 4021
Mean 400.1
RMS 16.13
Position (mm)

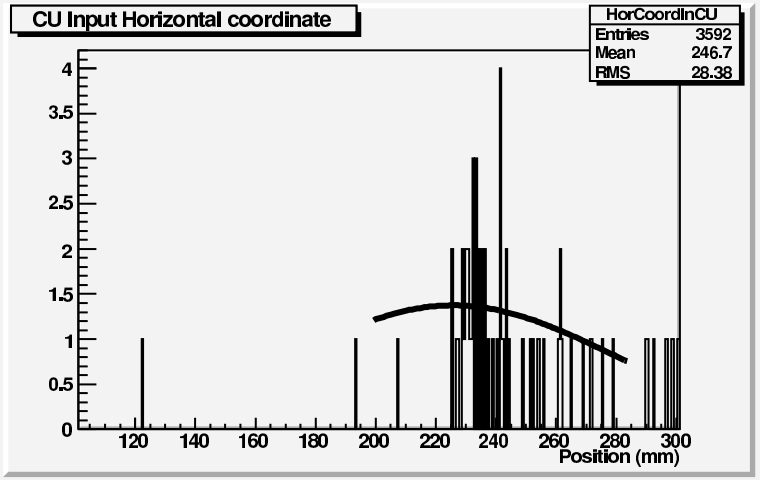

CU Input vertical coordinate
VertCoordInCU
Entries 4021
Mean 34.57
RMS 6.316
Position (mm)

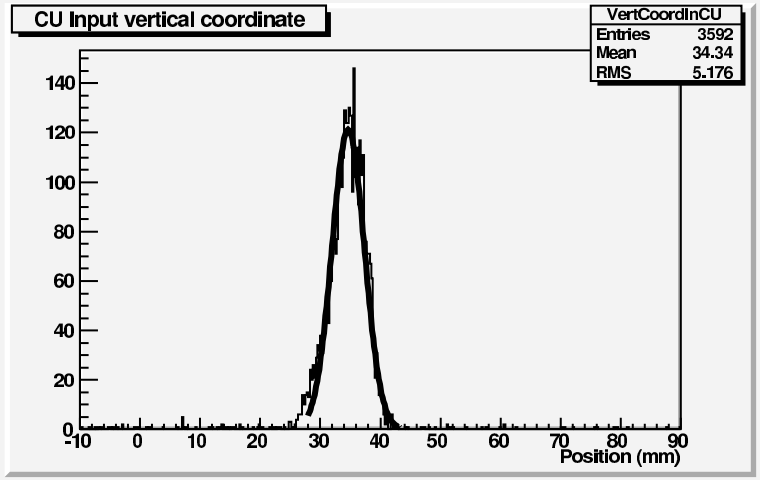

CU Input horizontal angle
HorAngleInCU
Entries 4021
Mean 0.002402
RMS 0.002193
Angle (rad)

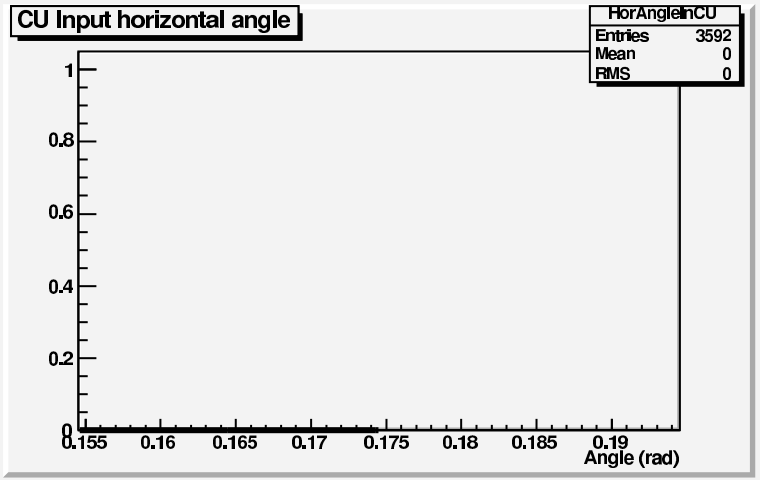

CU Input vertical angle
VertAngleInCU
Entries 4021
Mean 0.005721
RMS 0.002121
Angle (rad)

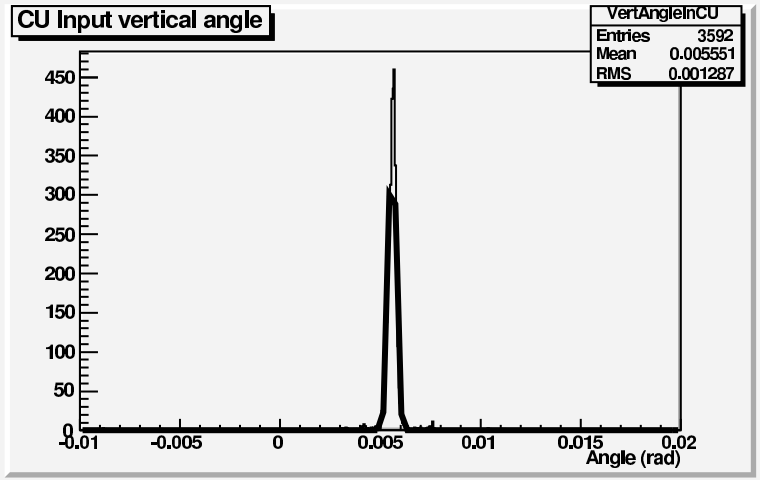

CU Input Beam Spot
SpotCoordInCU
Entries 4021
Mean x 399.7
Mean y 34.9
RMS x 6.807
RMS y 3.425
Vertical Position (mm)
Horizontal Position (mm)

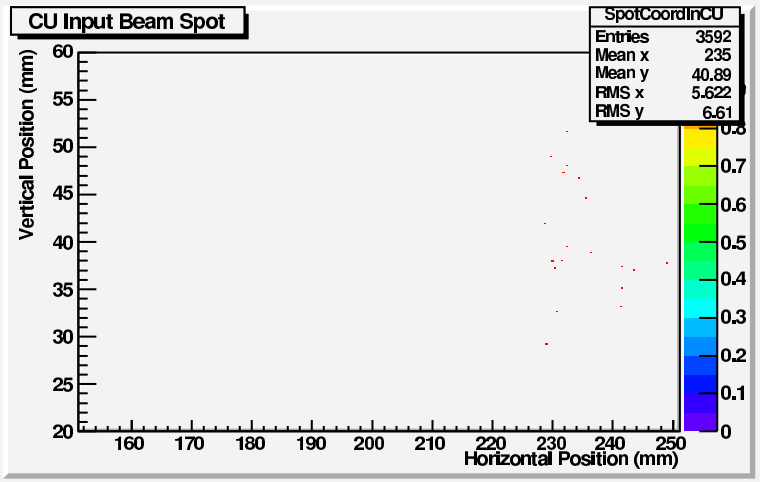

CU Input Beam Spot
SpotAngleInCU
Entries 4021
Mean x 0.005683
Mean y 0.002378
RMS x 0.002079
RMS y 0.002073
Vertical Angle (rad)
Horizontal Angle (rad)

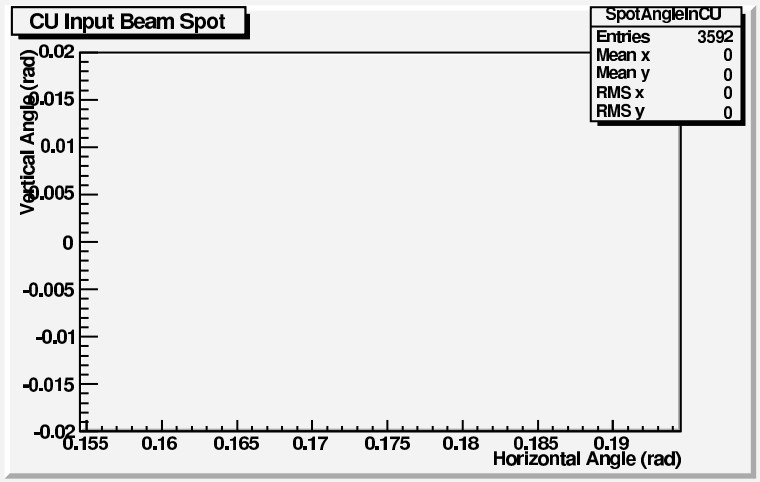

CU Input Horizontal coordinate
HorCoordInCU
Entries 3592
Mean 246.7
RMS 28.38
Position (mm)

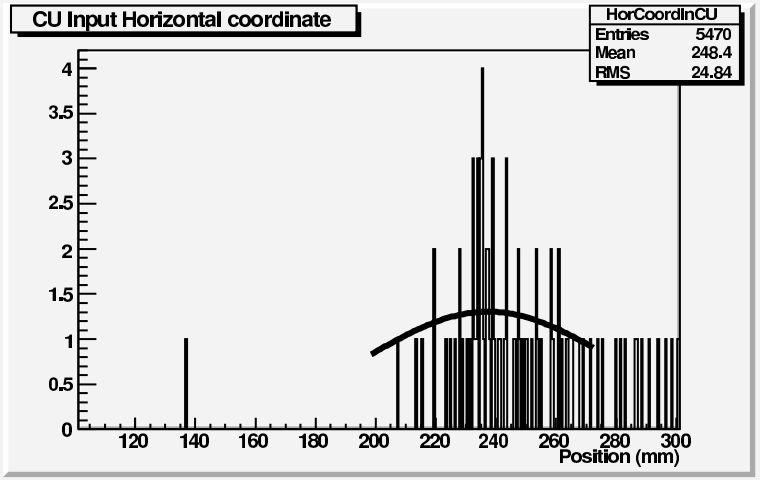

CU Input vertical coordinate
VertCoordInCU
Entries 3592
Mean 34.34
RMS 5.176
Position (mm)

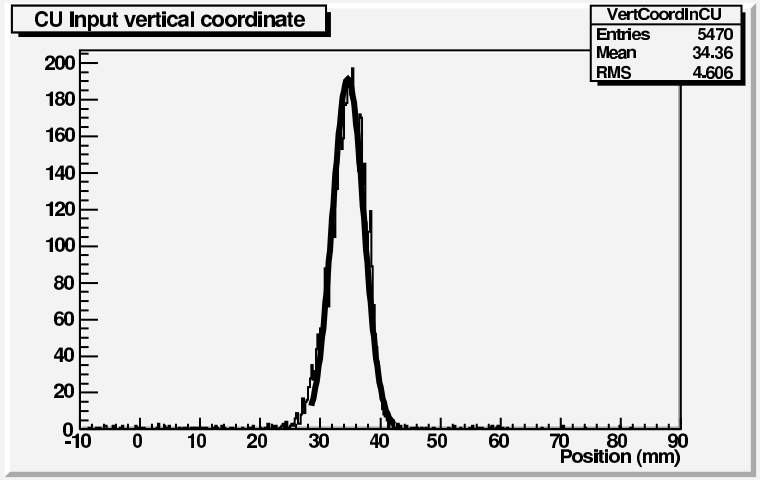

CU Input horizontal angle
HorAngleInCU
Entries 3592
Mean 0
RMS 0
Angle (rad)

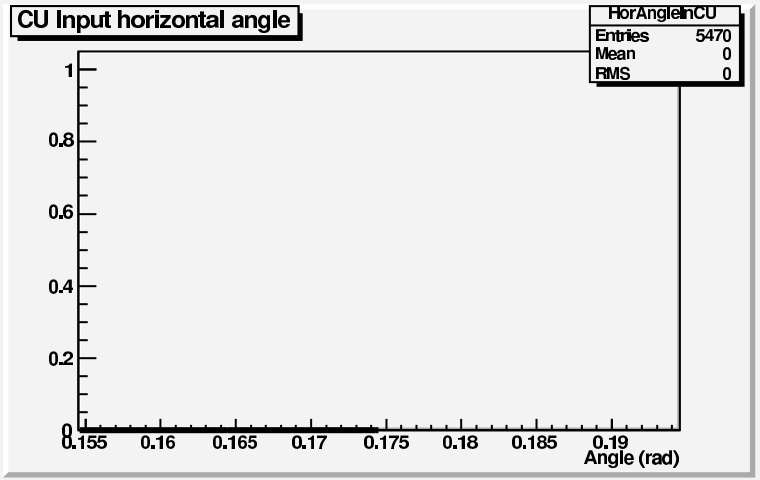

CU Input vertical angle
VertAngleInCU
Entries 3592
Mean 0.005551
RMS 0.001287
Angle (rad)

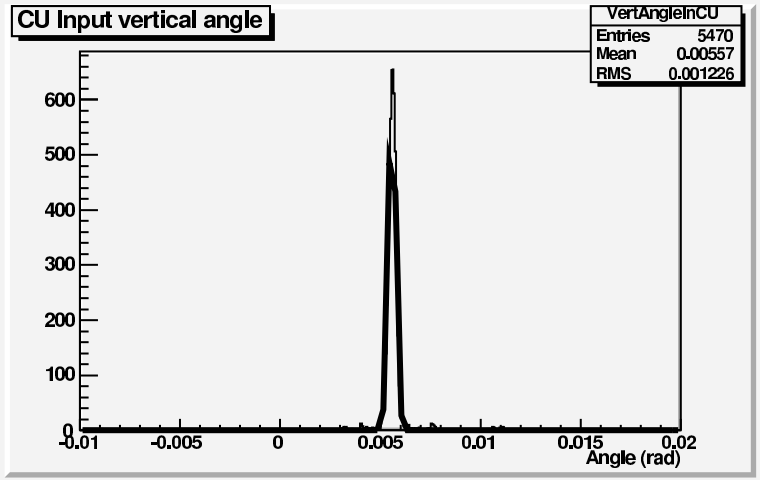

CU Input Beam Spot
SpotCoordInCU
Entries 3592
Mean x 235
Mean y 40.89
RMS x 5.622
RMS y 6.61
Vertical Position (mm)
Horizontal Position (mm)

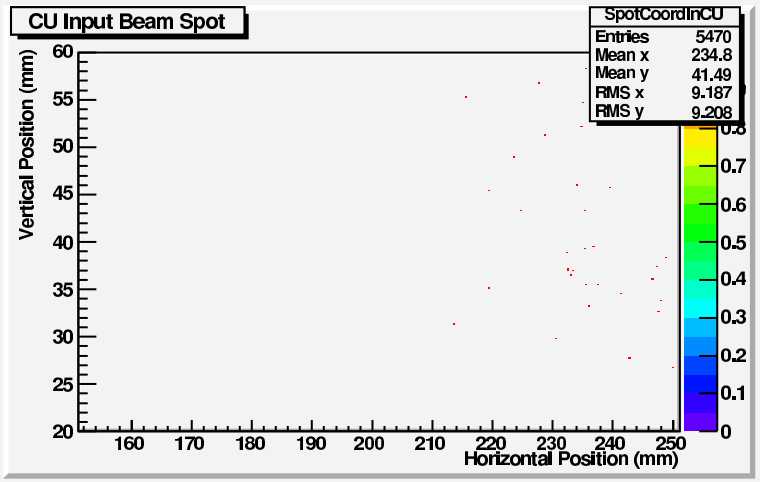

CU Input Beam Spot
SpotAngleInCU
Entries 3592
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

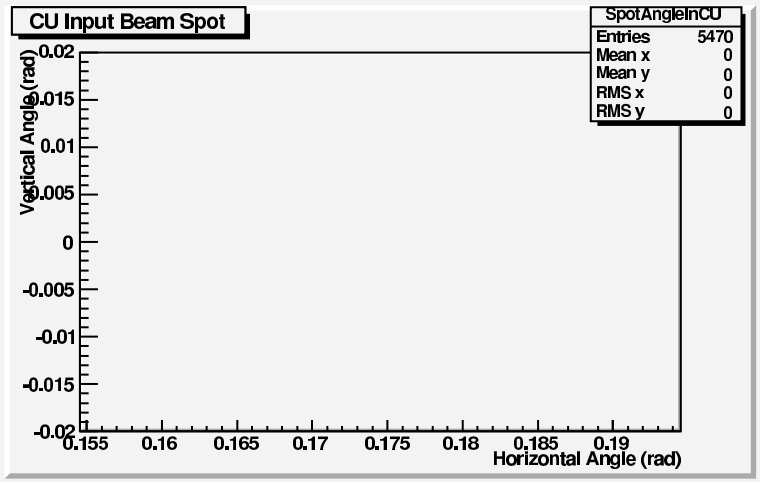

CU Input Horizontal coordinate
HorCoordInCU
Entries 5470
Mean 248.4
RMS 24.84
Position (mm)

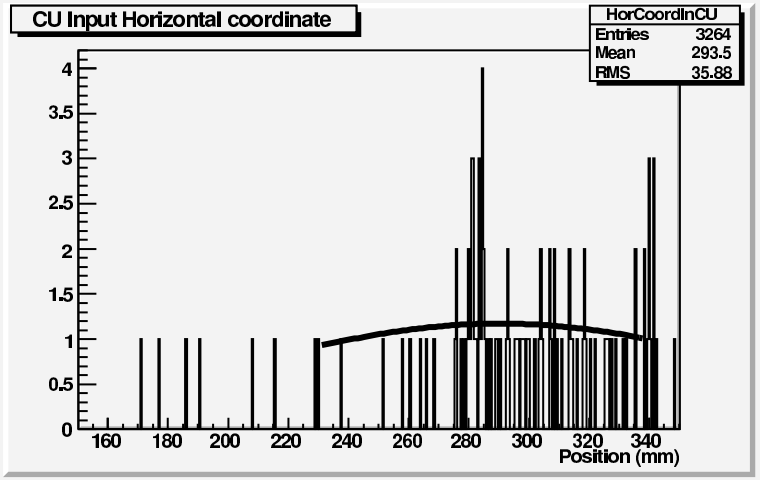

CU Input vertical coordinate
VertCoordInCU
Entries 5470
Mean 34.36
RMS 4.606
Position (mm)

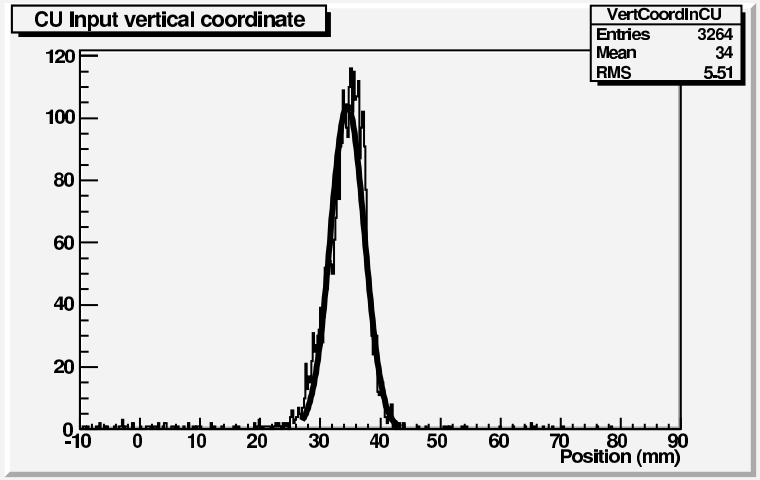

CU Input horizontal angle
HorAngleInCU
Entries 5470
Mean 0
RMS 0
Angle (rad)

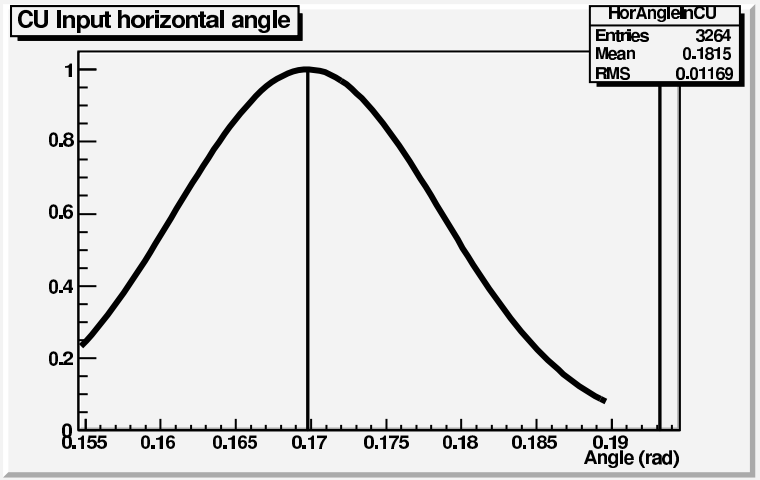

CU Input vertical angle
VertAngleInCU
Entries 5470
Mean 0.00557
RMS 0.001226
Angle (rad)

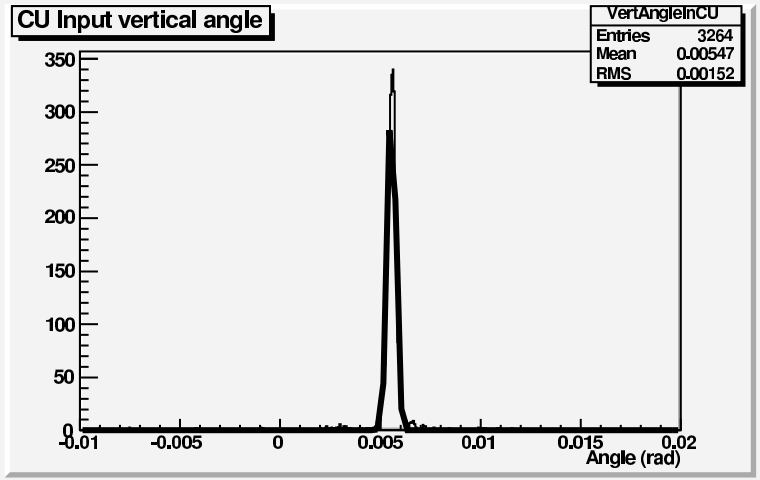

CU Input Beam Spot
SpotCoordInCU
Entries 5470
Mean x 234.8
Mean y 41.49
RMS x 9.187
RMS y 9.208
Vertical Position (mm)
Horizontal Position (mm)

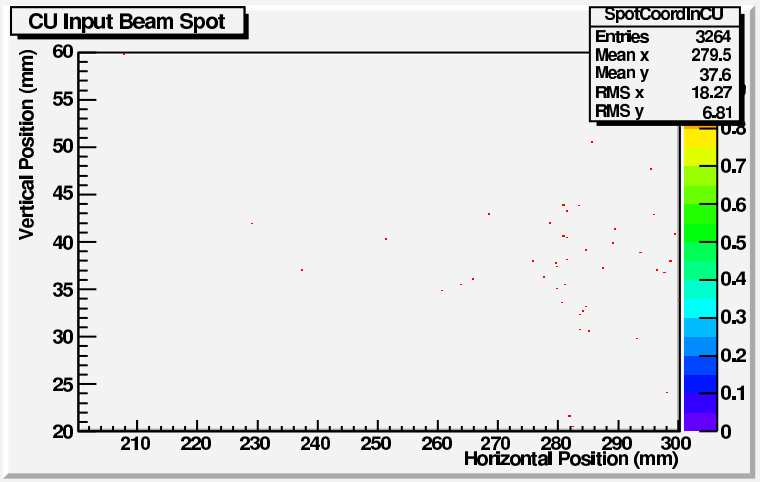

CU Input Beam Spot
SpotAngleInCU
Entries 5470
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

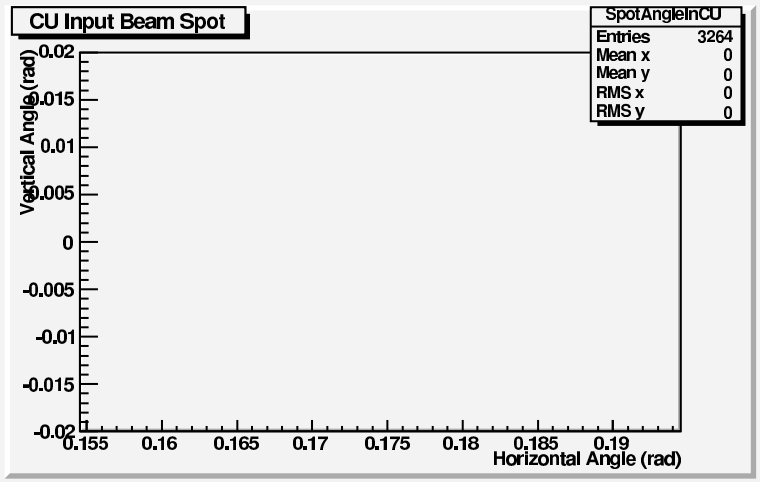

CU Input Horizontal coordinate
HorCoordInCU
Entries 3264
Mean 293.5
RMS 35.88
Position (mm)

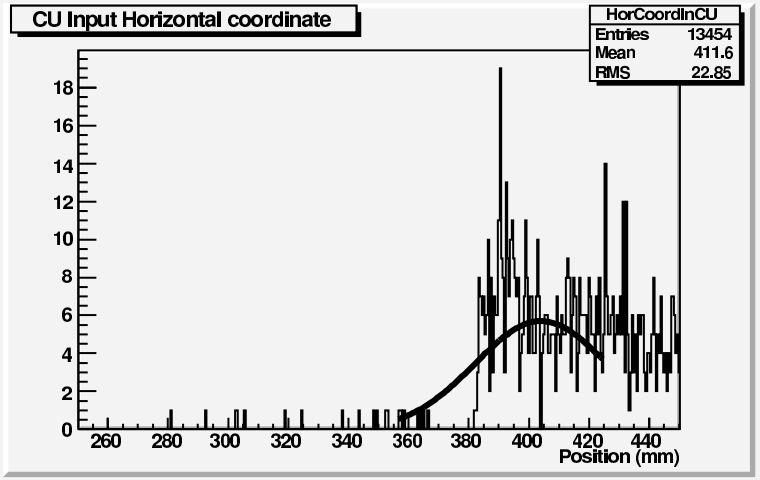

CU Input vertical coordinate
VertCoordInCU
Entries 3264
Mean 34
RMS 5.51
Position (mm)

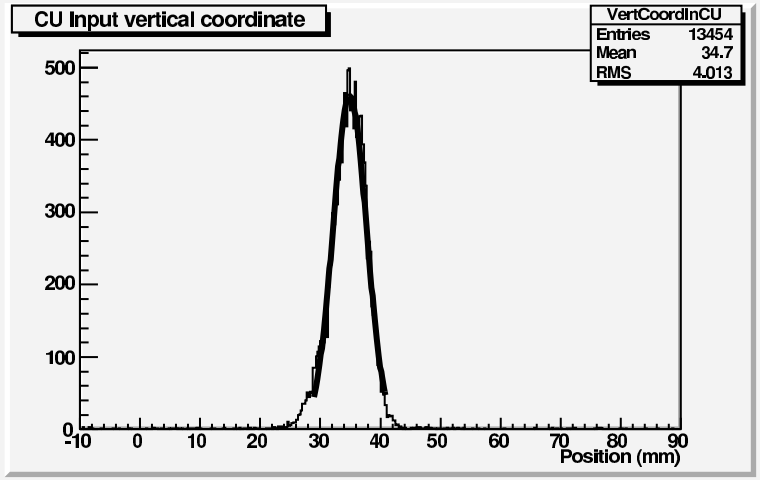

CU Input horizontal angle
HorAngleInCU
Entries 3264
Mean 0.1815
RMS 0.01169
Angle (rad)

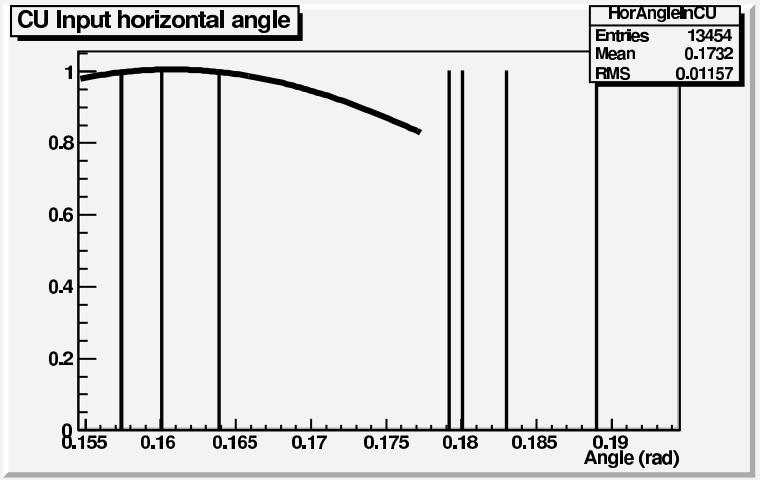

CU Input vertical angle
VertAngleInCU
Entries 3264
Mean 0.00547
RMS 0.00152
Angle (rad)

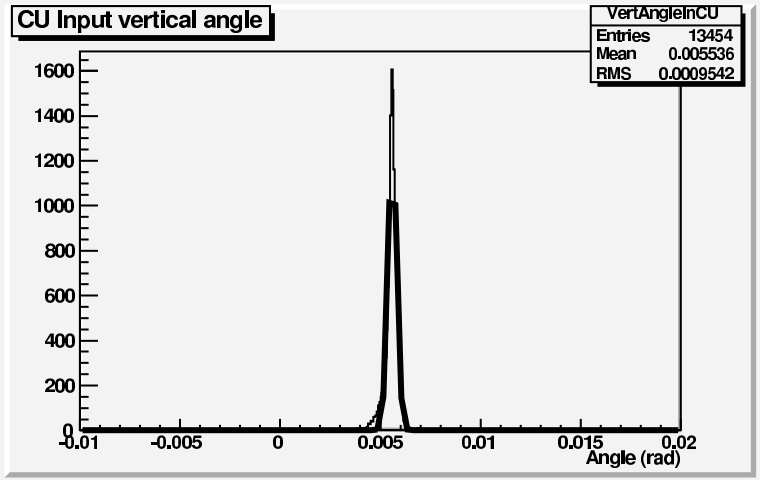

CU Input Beam Spot
SpotCoordInCU
Entries 3264
Mean x 279.5
Mean y 37.6
RMS x 18.27
RMS y 6.81
Vertical Position (mm)
Horizontal Position (mm)

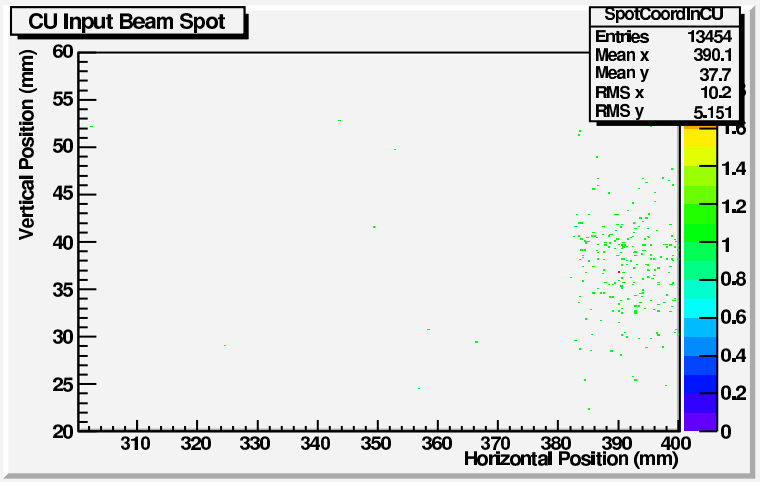

CU Input Beam Spot
SpotAngleInCU
Entries 3264
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

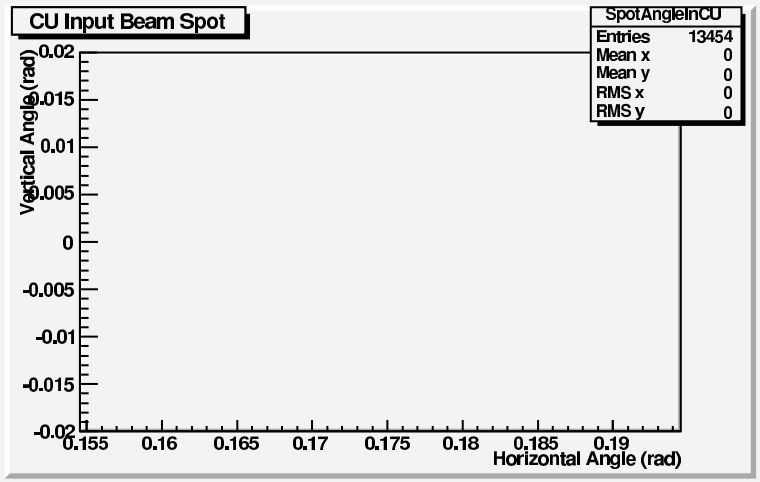

CU Input Horizontal coordinate
HorCoordInCU
Entries 13454
Mean 411.6
RMS 22.85
Position (mm)

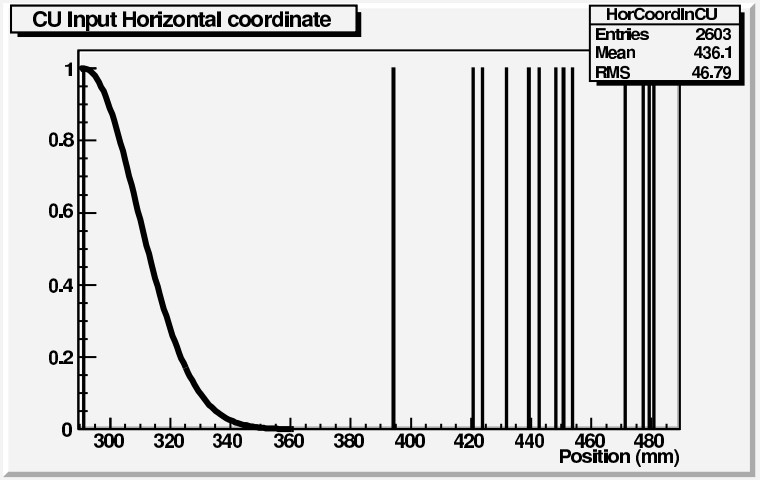

CU Input vertical coordinate
VertCoordInCU
Entries 13454
Mean 34.7
RMS 4.013
Position (mm)

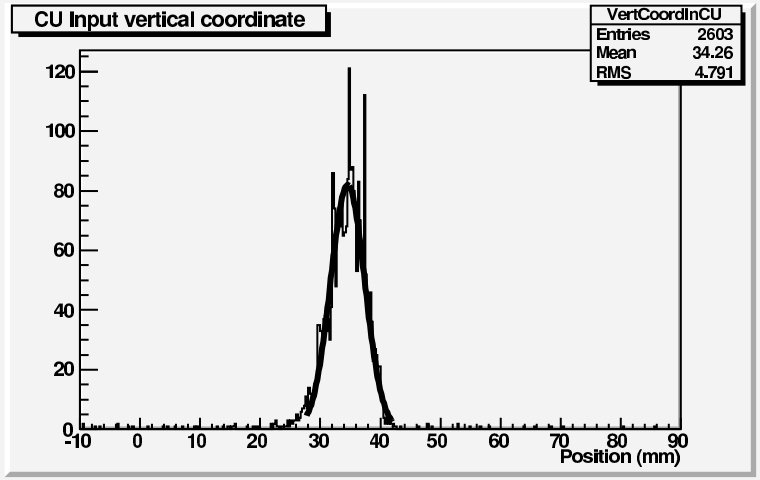

CU Input horizontal angle
HorAngleInCU
Entries 13454
Mean 0.1732
RMS 0.01157
Angle (rad)

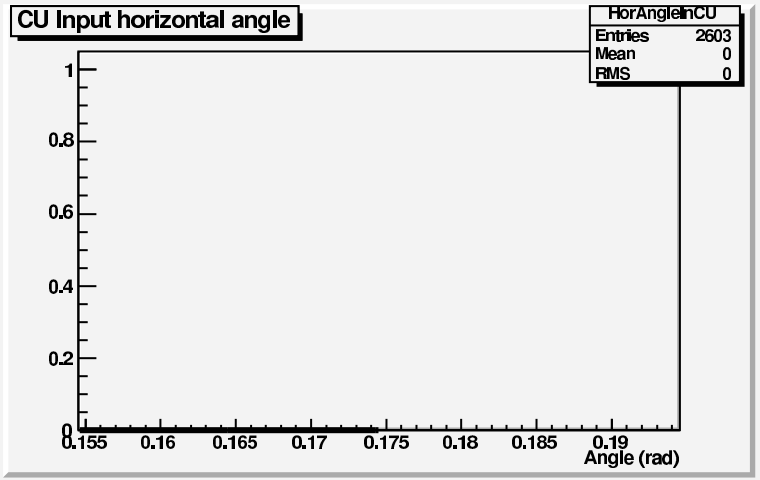

CU Input vertical angle
VertAngleInCU
Entries 13454
Mean 0.005536
RMS 0.0009542
Angle (rad)

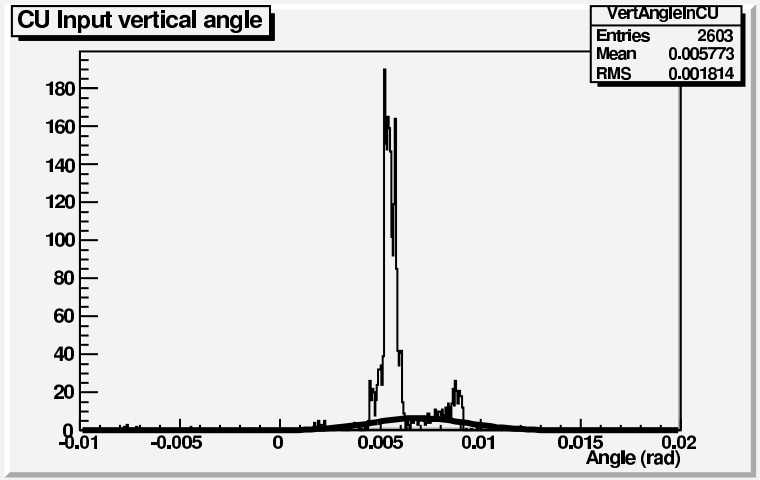

CU Input Beam Spot
SpotCoordInCU
Entries 13454
Mean x 390.1
Mean y 37.7
RMS x 10.2
RMS y 5.151
Vertical Position (mm)
Horizontal Position (mm)

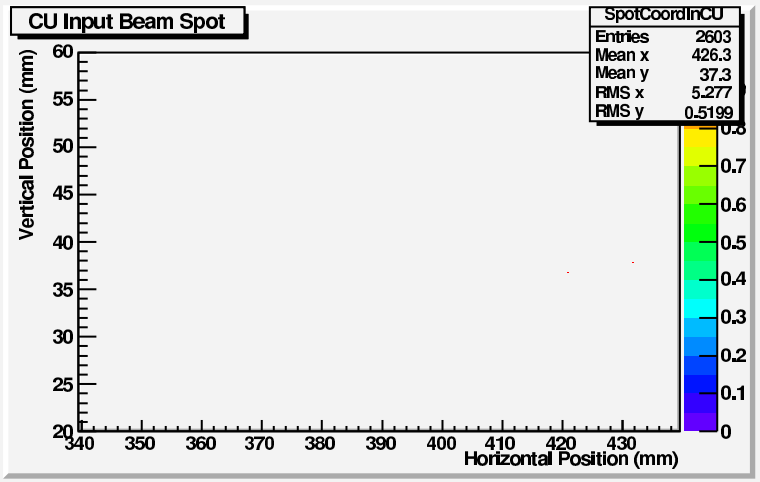

CU Input Beam Spot
SpotAngleInCU
Entries 13454
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

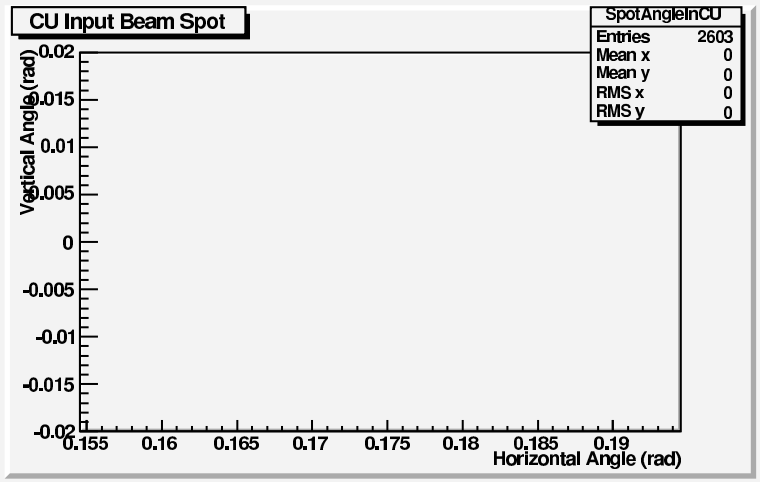

CU Input Horizontal coordinate
HorCoordInCU
Entries 2603
Mean 436.1
RMS 46.79
Position (mm)

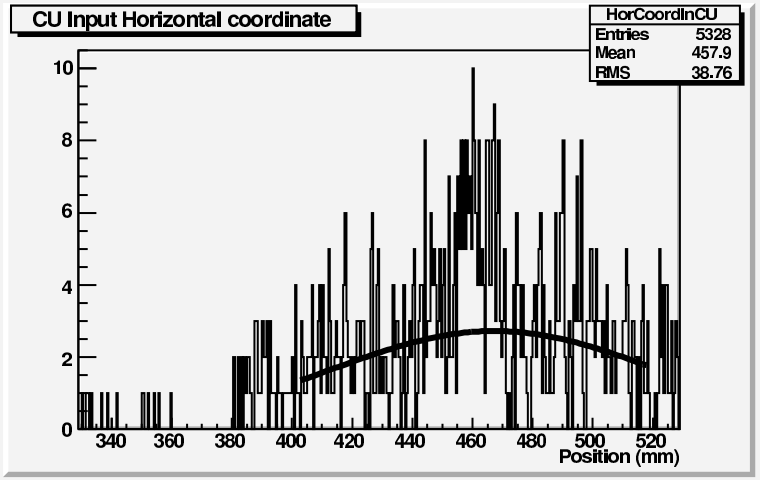

CU Input vertical coordinate
VertCoordInCU
Entries 2603
Mean 34.26
RMS 4.791
Position (mm)

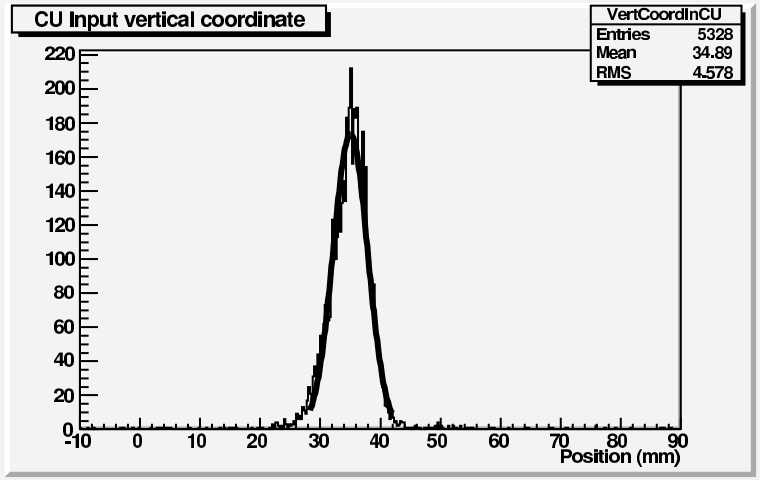

CU Input horizontal angle
HorAngleInCU
Entries 2603
Mean 0
RMS 0
Angle (rad)

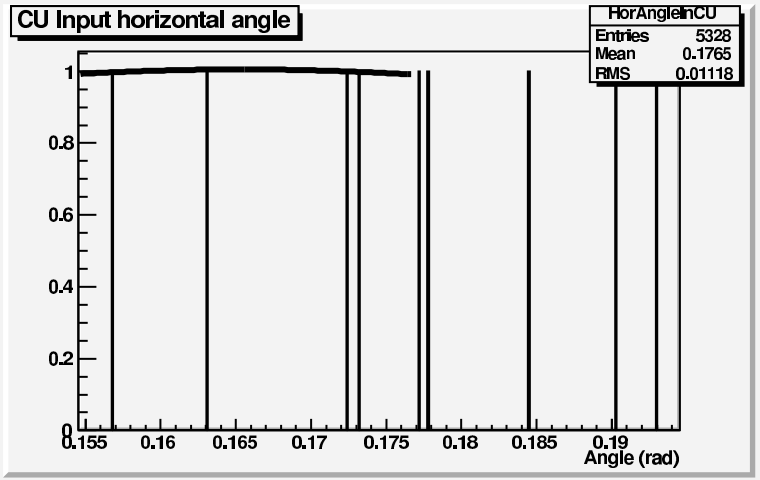

CU Input vertical angle
VertAngleInCU
Entries 2603
Mean 0.005773
RMS 0.001814
Angle (rad)

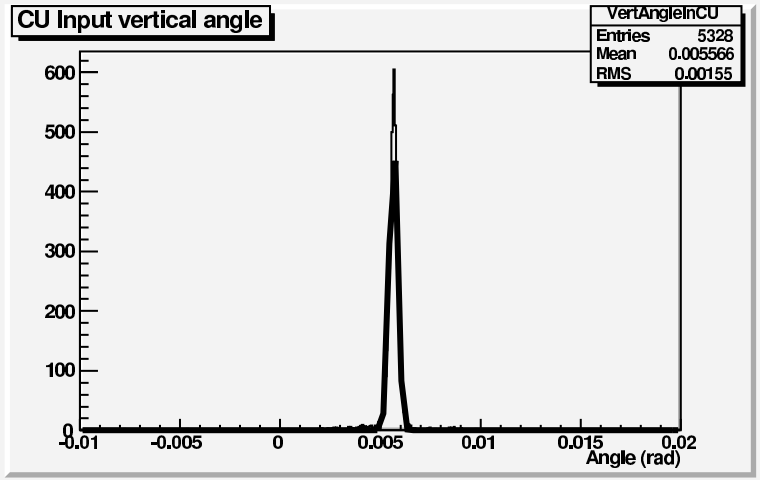

CU Input Beam Spot
SpotCoordInCU
Entries 2603
Mean x 426.3
Mean y 37.3
RMS x 5.277
RMS y 0.5199
Vertical Position (mm)
Horizontal Position (mm)

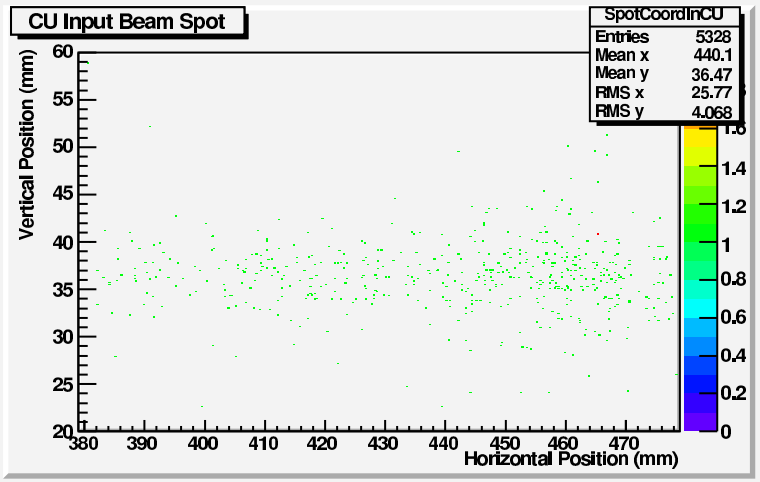

CU Input Beam Spot
SpotAngleInCU
Entries 2603
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

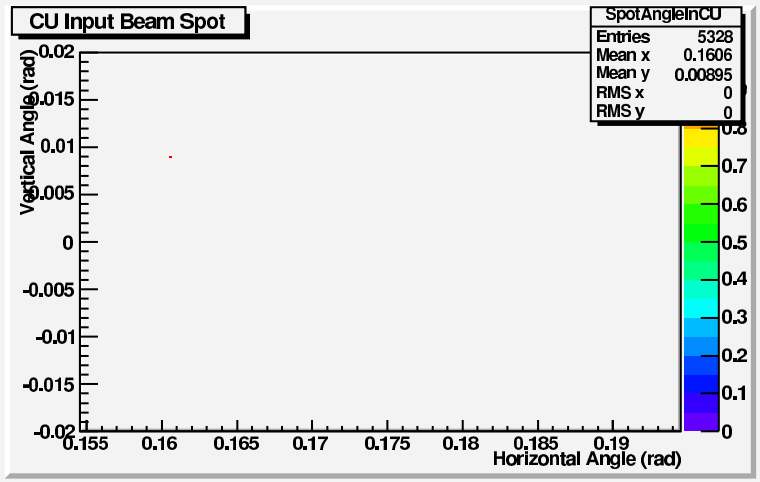

CU Input Horizontal coordinate
HorCoordInCU
Entries 5328
Mean 457.9
RMS 38.76
Position (mm)

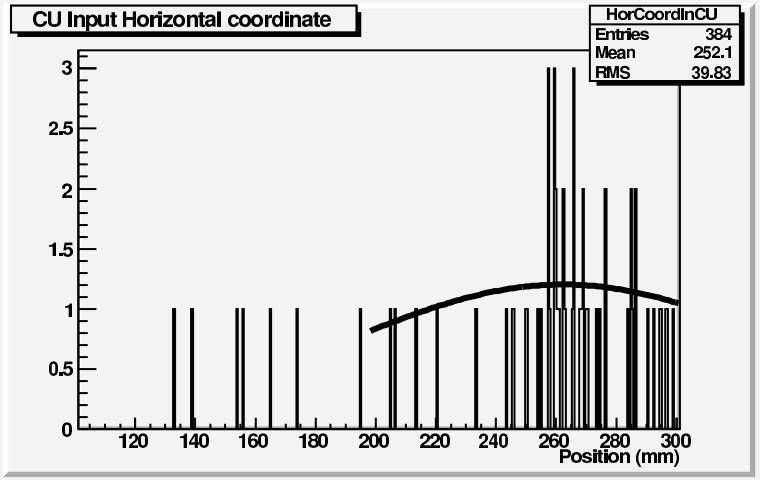

CU Input vertical coordinate
VertCoordInCU
Entries 5328
Mean 34.89
RMS 4.578
Position (mm)

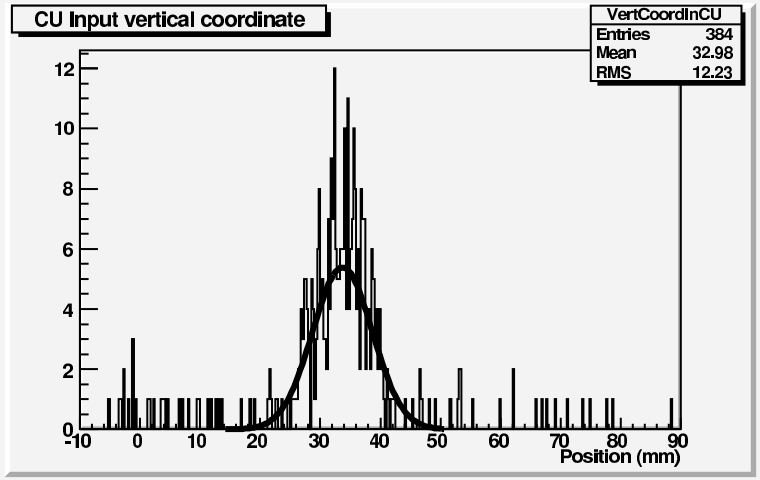

CU Input horizontal angle
HorAngleInCU
Entries 5328
Mean 0.1765
RMS 0.01118
Angle (rad)

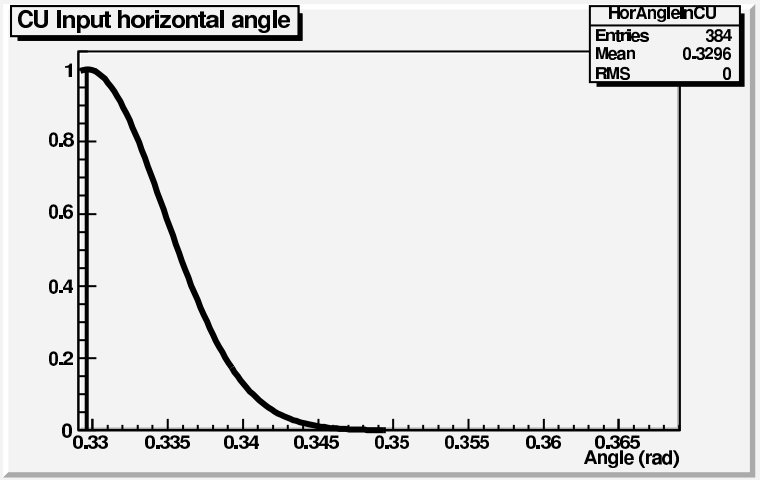

CU Input vertical angle
VertAngleInCU
Entries 5328
Mean 0.005566
RMS 0.00155
Angle (rad)

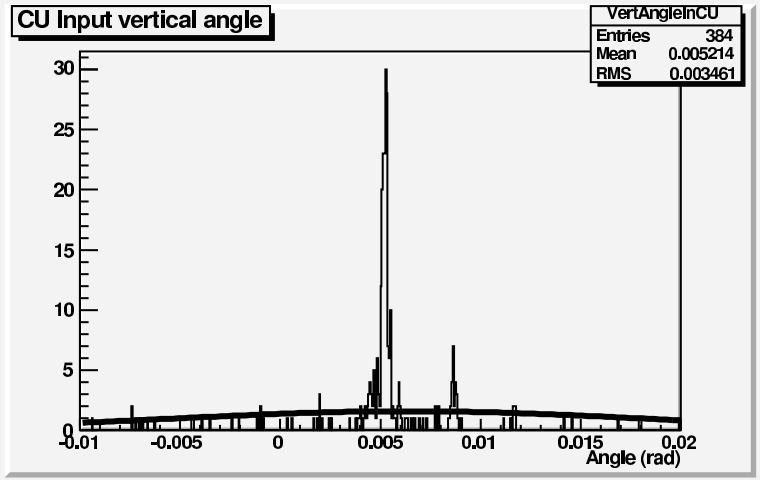

CU Input Beam Spot
SpotCoordInCU
Entries 5328
Mean x 440.1
Mean y 36.47
RMS x 25.77
RMS y 4.068
Vertical Position (mm)
Horizontal Position (mm)

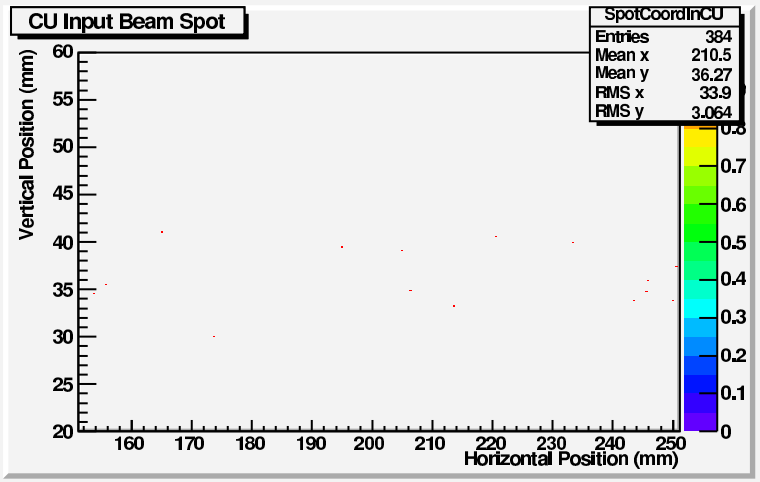

CU Input Beam Spot
SpotAngleInCU
Entries 5328
Mean x 0.1606
Mean y 0.00895
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

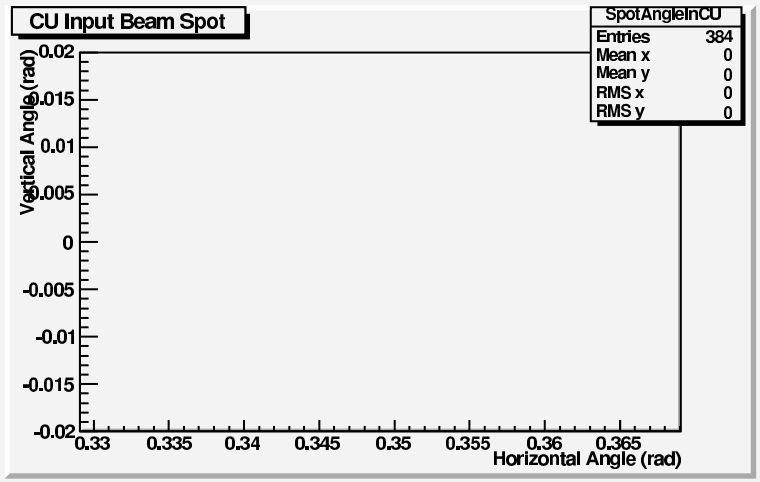

CU Input Horizontal coordinate
HorCoordInCU
Entries 384
Mean 252.1
RMS 39.83
Position (mm)

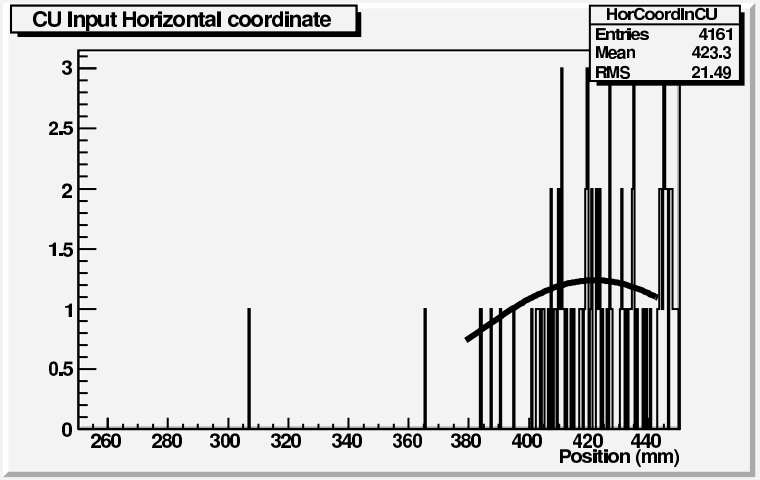

CU Input vertical coordinate
VertCoordInCU
Entries 384
Mean 32.98
RMS 12.23
Position (mm)

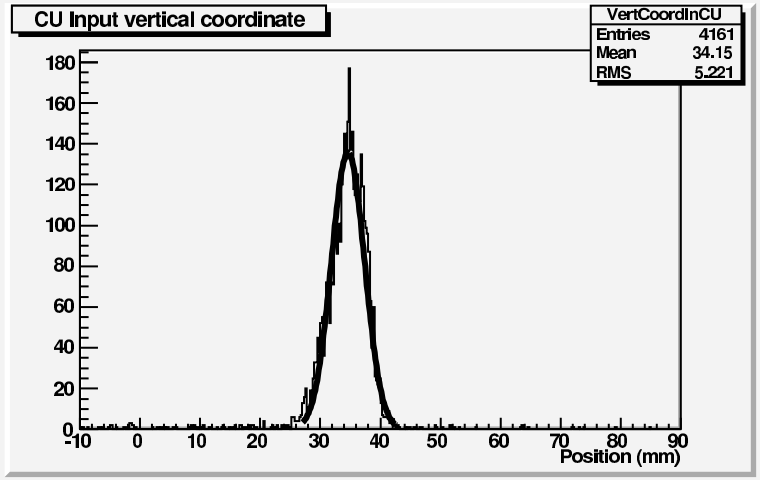

CU Input horizontal angle
HorAngleInCU
Entries 384
Mean 0.3296
RMS 0
Angle (rad)

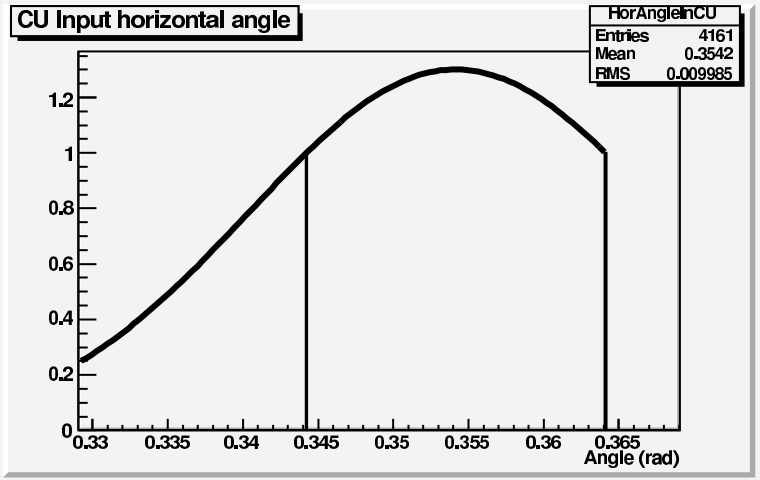

CU Input vertical angle
VertAngleInCU
Entries 384
Mean 0.005214
RMS 0.003461
Angle (rad)

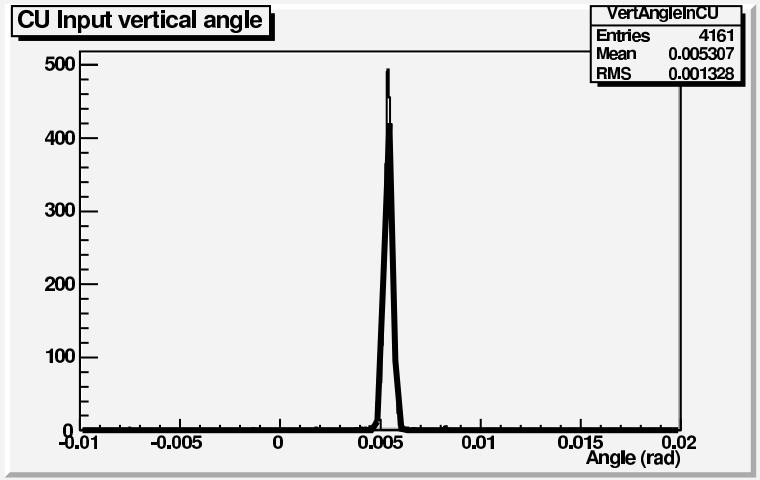

CU Input Beam Spot
SpotCoordInCU
Entries 384
Mean x 210.5
Mean y 36.27
RMS x 33.9
RMS y 3.064
Vertical Position (mm)
Horizontal Position (mm)

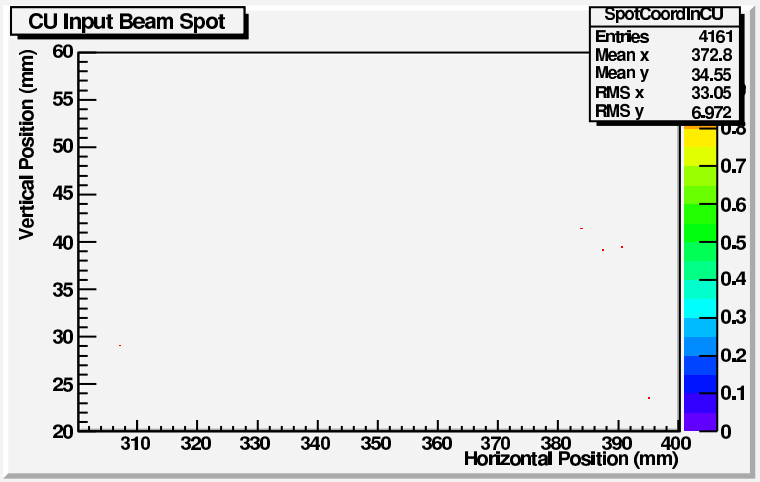

CU Input Beam Spot
SpotAngleInCU
Entries 384
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

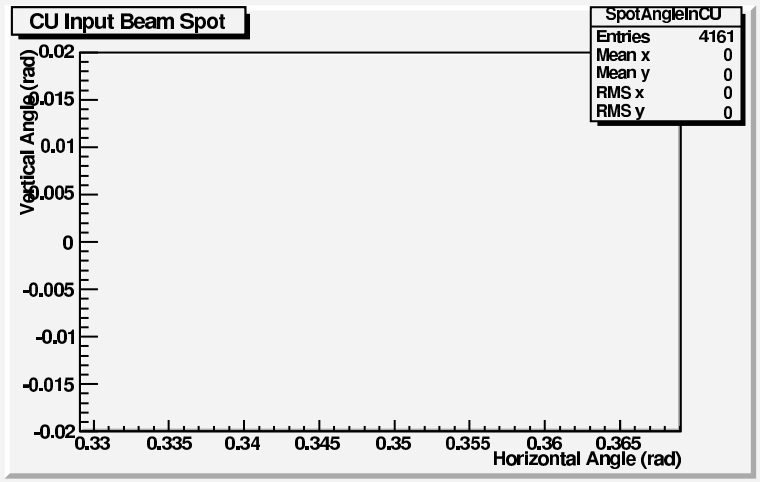

CU Input Horizontal coordinate
HorCoordInCU
Entries 4161
Mean 423.3
RMS 21.49
Position (mm)

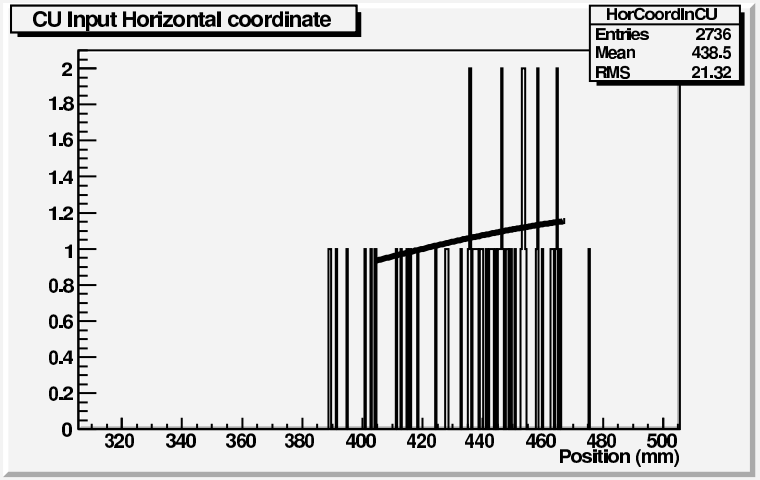

CU Input vertical coordinate
VertCoordInCU
Entries 4161
Mean 34.15
RMS 5.221
Position (mm)

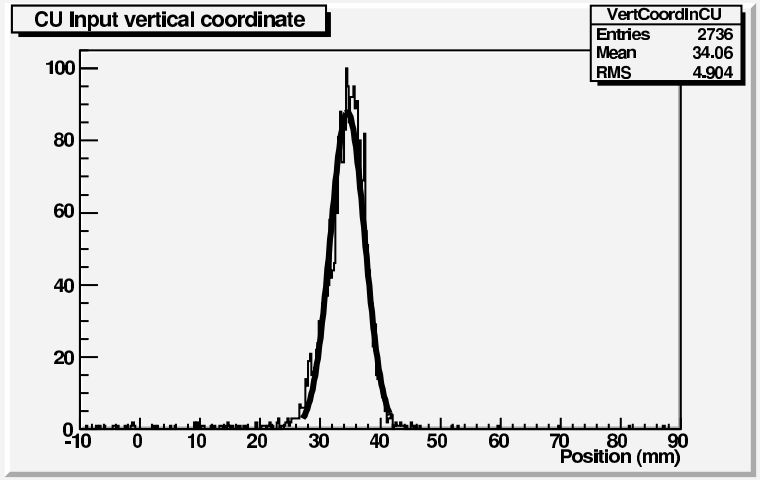

CU Input horizontal angle
HorAngleInCU
Entries 4161
Mean 0.3542
RMS 0.009985
Angle (rad)

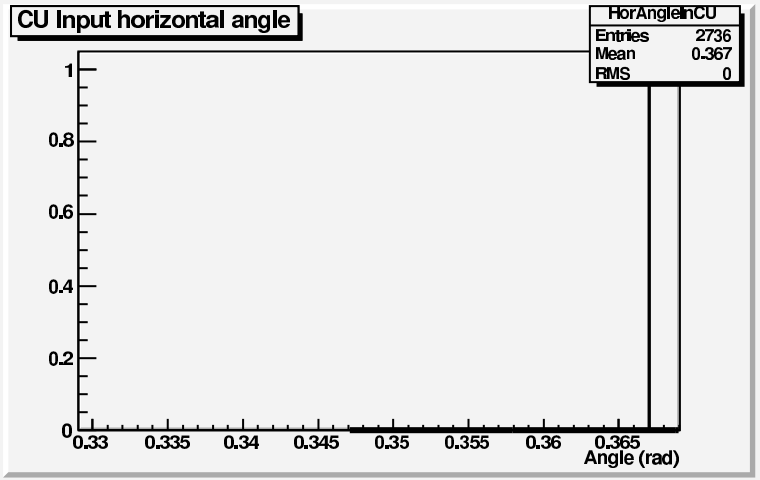

CU Input vertical angle
VertAngleInCU
Entries 4161
Mean 0.005307
RMS 0.001328
Angle (rad)

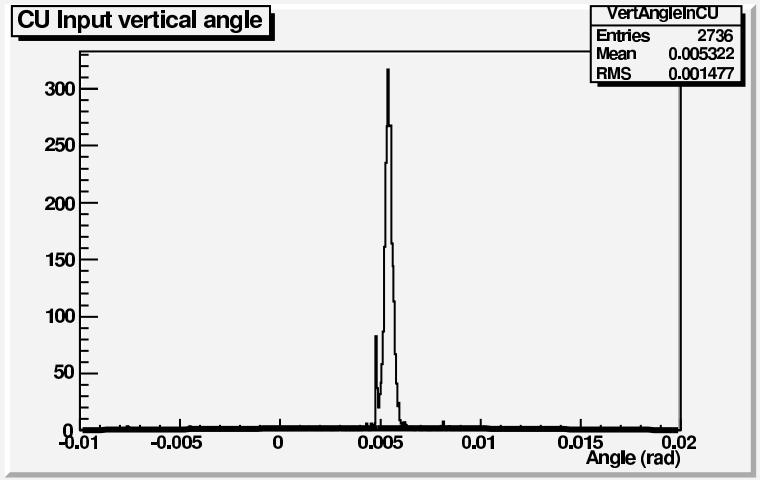

CU Input Beam Spot
SpotCoordInCU
Entries 4161
Mean x 372.8
Mean y 34.55
RMS x 33.05
RMS y 6.972
Vertical Position (mm)
Horizontal Position (mm)

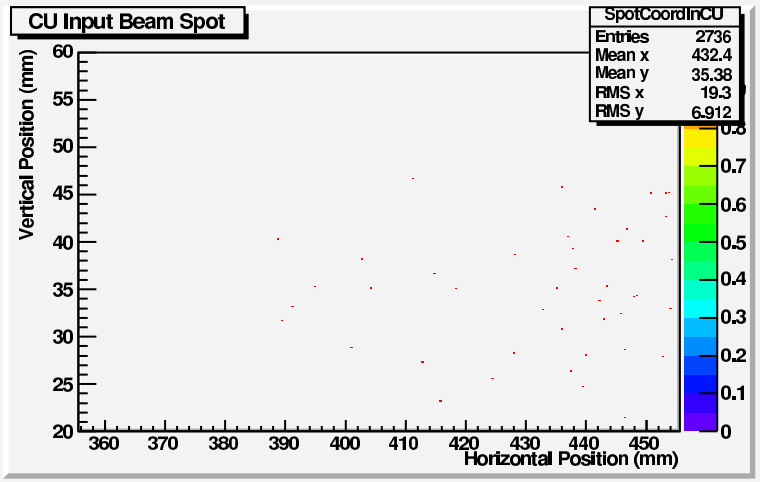

CU Input Beam Spot
SpotAngleInCU
Entries 4161
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

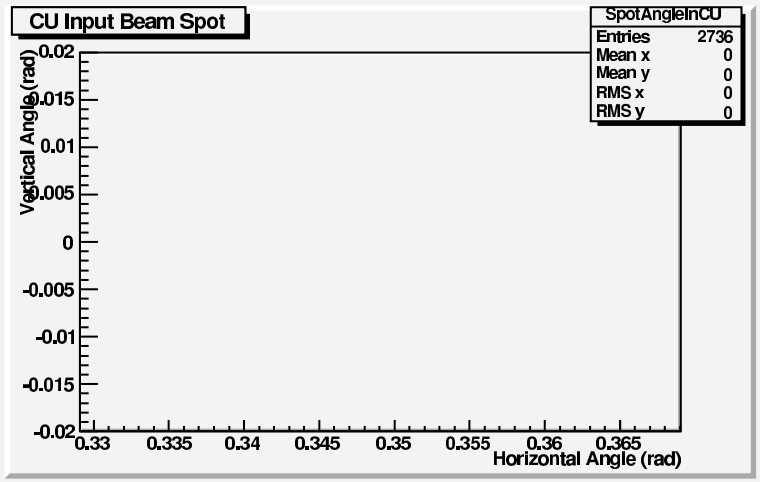

CU Input Horizontal coordinate
HorCoordInCU
Entries 2736
Mean 438.5
RMS 21.32
Position (mm)

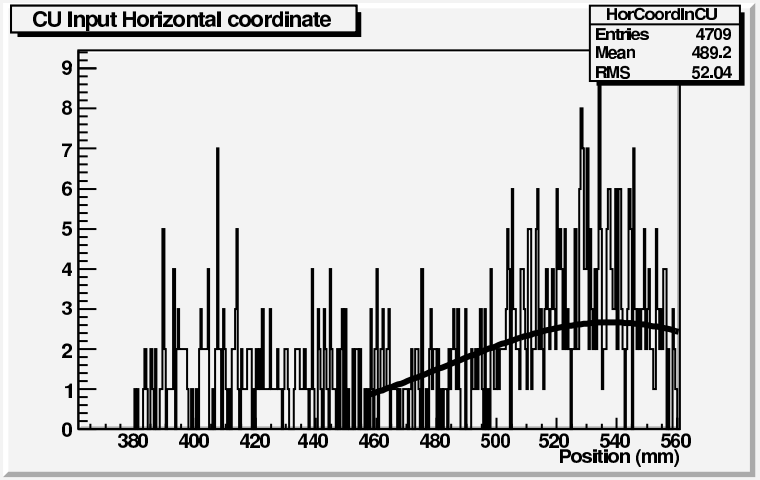

CU Input vertical coordinate
VertCoordInCU
Entries 2736
Mean 34.06
RMS 4.904
Position (mm)

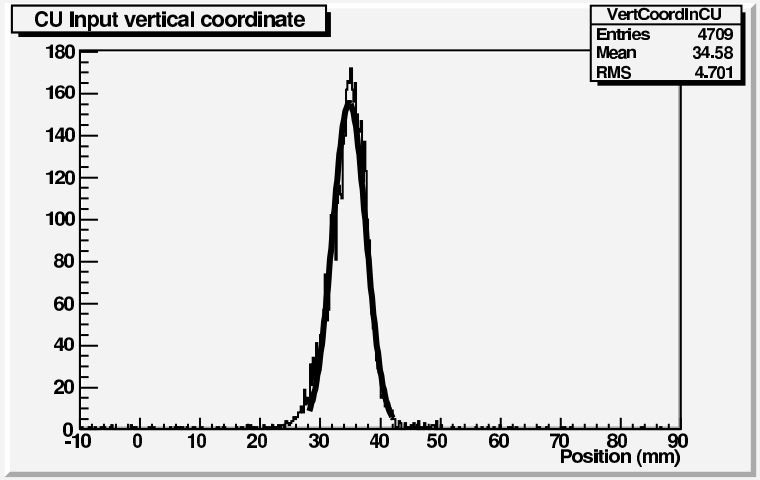

CU Input horizontal angle
HorAngleInCU
Entries 2736
Mean 0.367
RMS 0
Angle (rad)

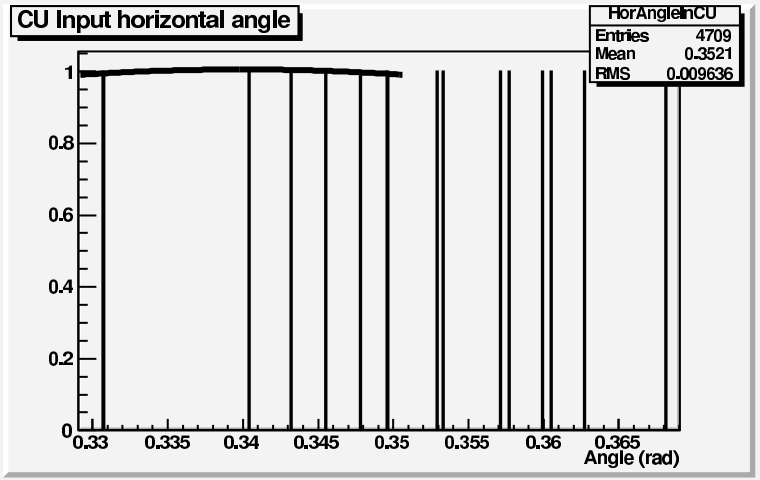

CU Input vertical angle
VertAngleInCU
Entries 2736
Mean 0.005322
RMS 0.001477
Angle (rad)

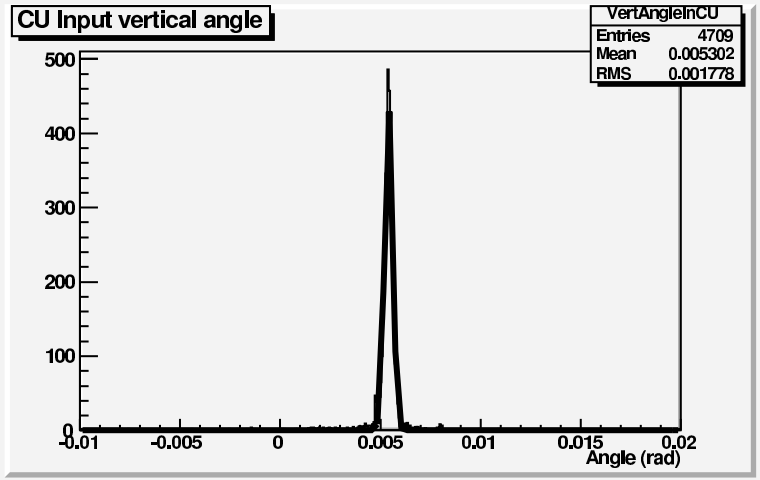

CU Input Beam Spot
SpotCoordInCU
Entries 2736
Mean x 432.4
Mean y 35.38
RMS x 19.3
RMS y 6.912
Vertical Position (mm)
Horizontal Position (mm)

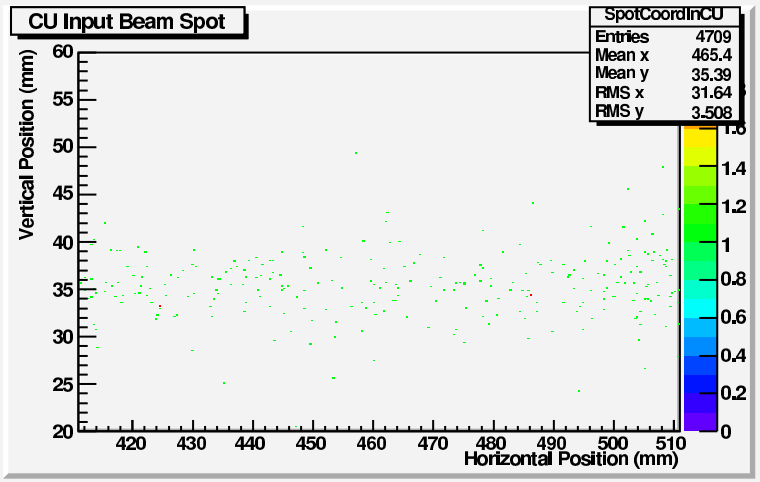

CU Input Beam Spot
SpotAngleInCU
Entries 2736
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

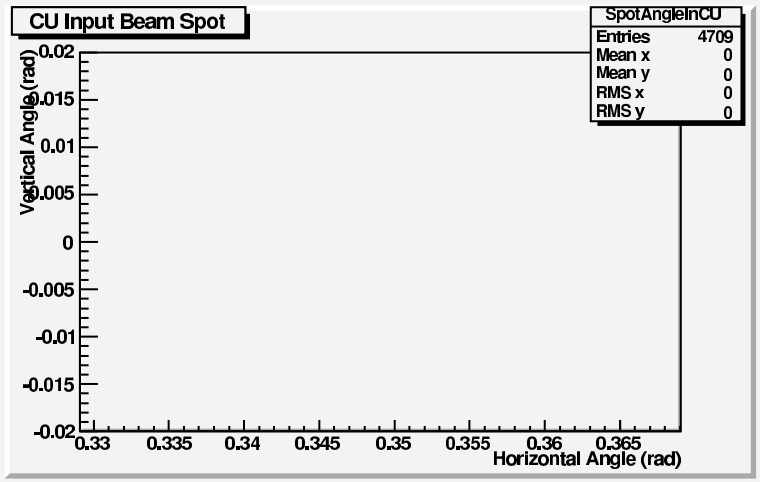

CU Input Horizontal coordinate
HorCoordInCU
Entries 4709
Mean 489.2
RMS 52.04
Position (mm)

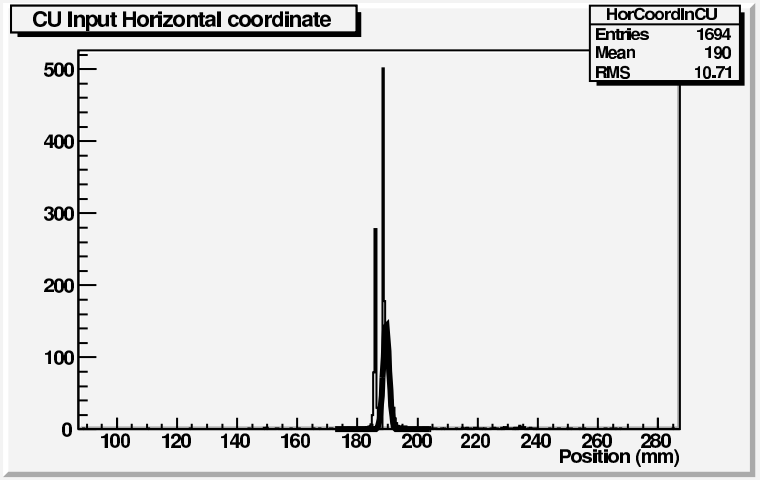

CU Input vertical coordinate
VertCoordInCU
Entries 4709
Mean 34.58
RMS 4.701
Position (mm)

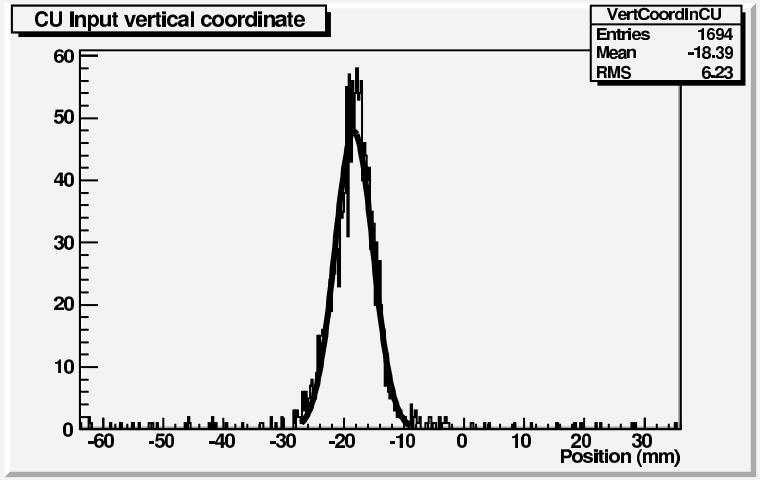

CU Input horizontal angle
HorAngleInCU
Entries 4709
Mean 0.3521
RMS 0.009636
Angle (rad)

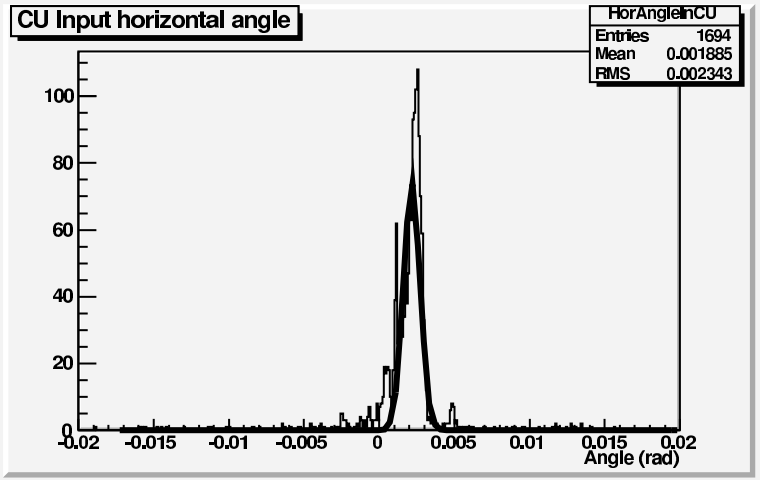

CU Input vertical angle
VertAngleInCU
Entries 4709
Mean 0.005302
RMS 0.001778
Angle (rad)

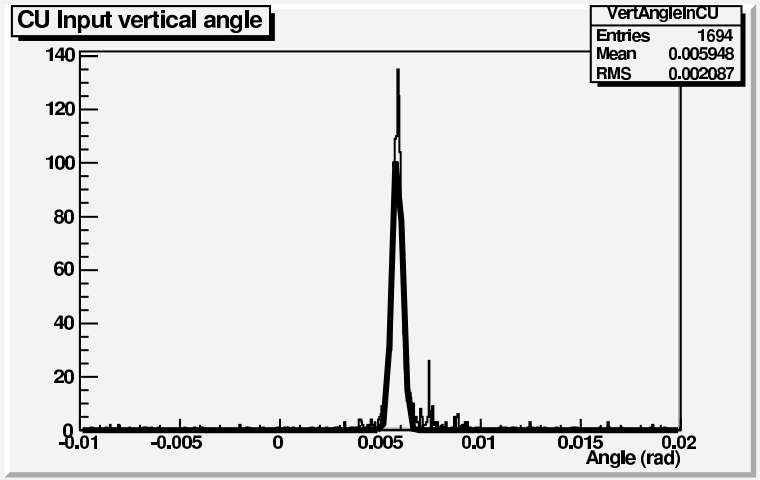

CU Input Beam Spot
SpotCoordInCU
Entries 4709
Mean x 465.4
Mean y 35.39
RMS x 31.64
RMS y 3.508
Vertical Position (mm)
Horizontal Position (mm)

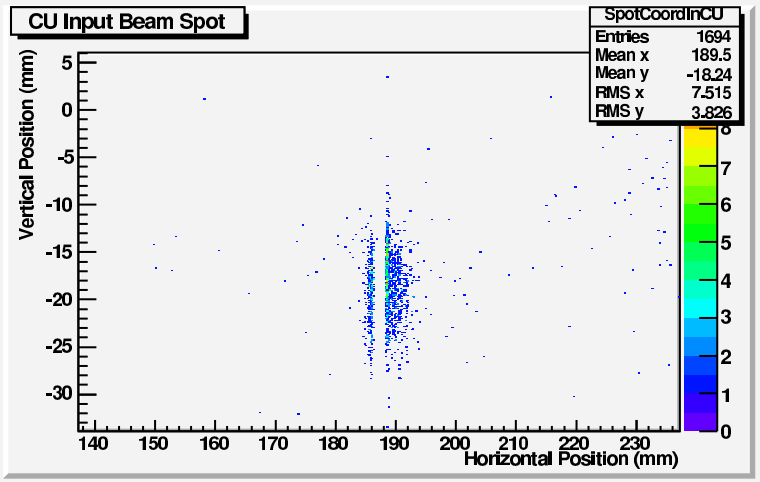

CU Input Beam Spot
SpotAngleInCU
Entries 4709
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

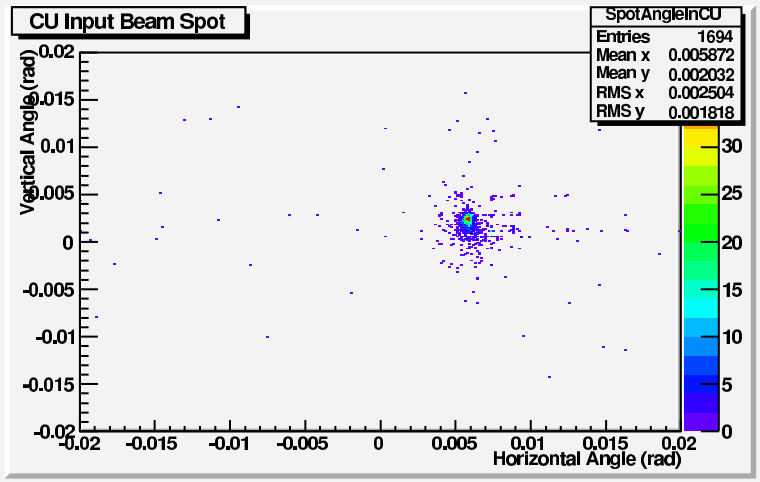

CU Input Horizontal coordinate
HorCoordInCU
Entries 1694
Mean 190
RMS 10.71
Position (mm)

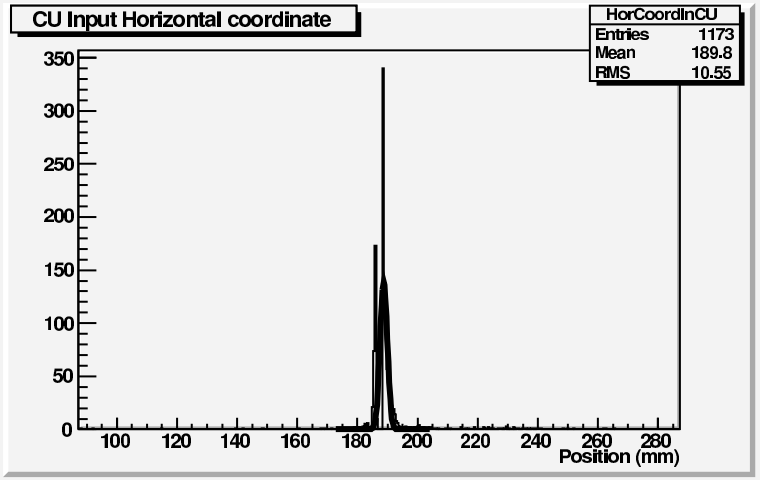

CU Input vertical coordinate
VertCoordInCU
Entries 1694
Mean -18.39
RMS 6.23
Position (mm)

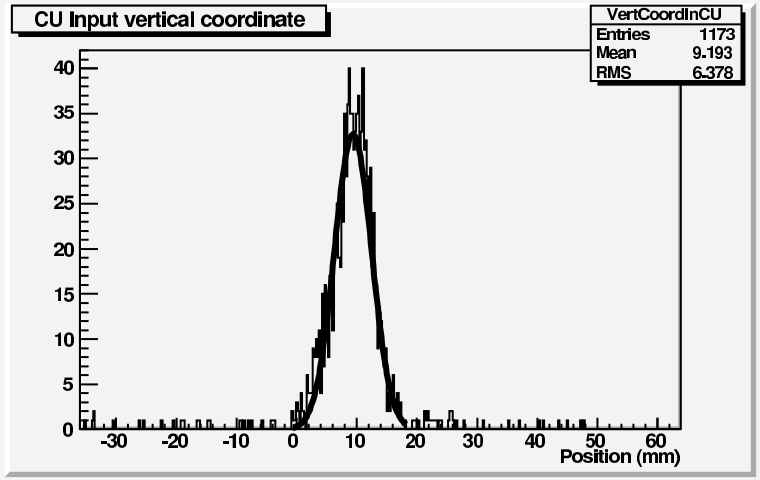

CU Input horizontal angle
HorAngleInCU
Entries 1694
Mean 0.001885
RMS 0.002343
Angle (rad)

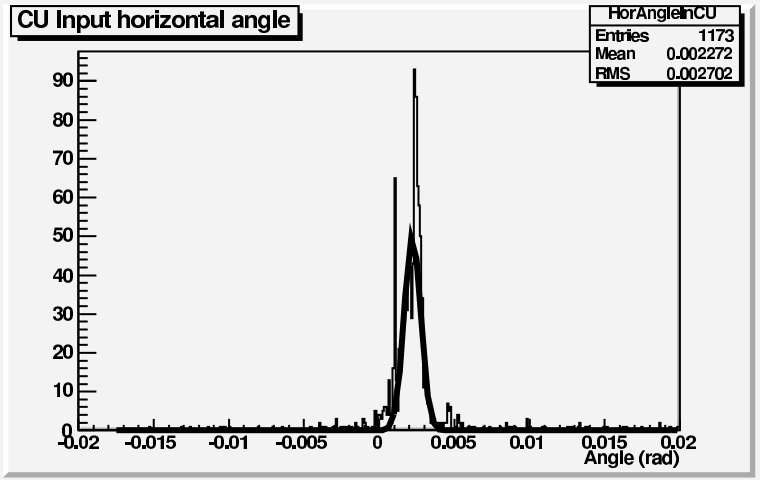

CU Input vertical angle
VertAngleInCU
Entries 1694
Mean 0.005948
RMS 0.002087
Angle (rad)

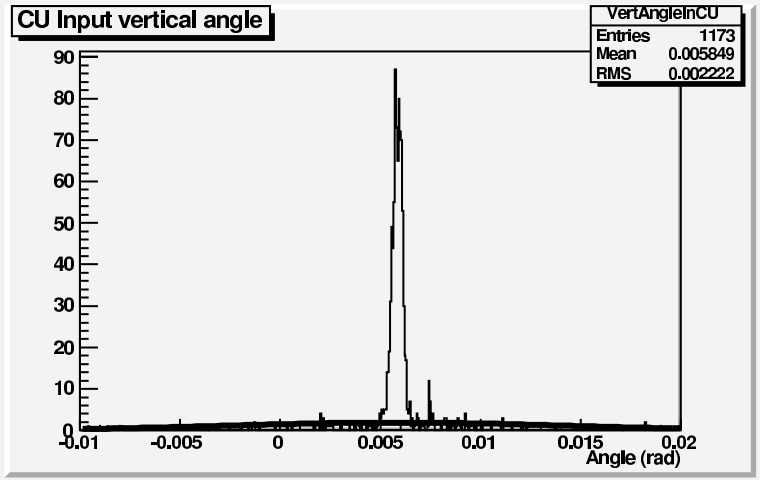

CU Input Beam Spot
SpotCoordInCU
Entries 1694
Mean x 189.5
Mean y -18.24
RMS x 7.515
RMS y 3.826
Vertical Position (mm)
Horizontal Position (mm)

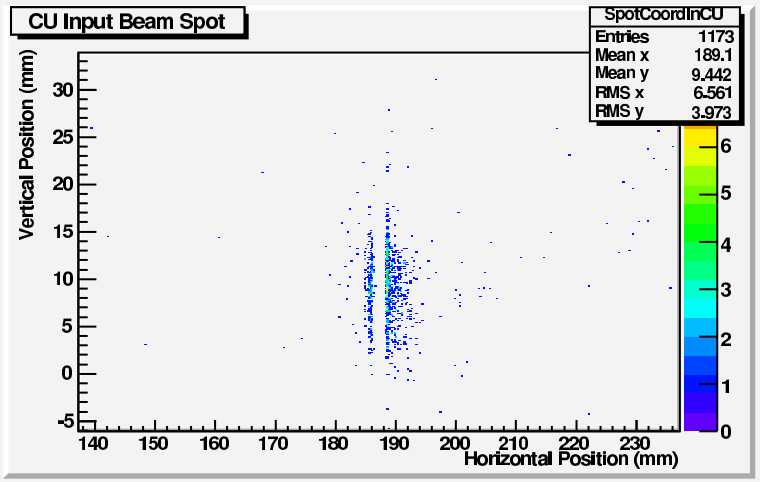

CU Input Beam Spot
SpotAngleInCU
Entries 1694
Mean x 0.005872
Mean y 0.002032
RMS x 0.002504
RMS y 0.001818
Vertical Angle (rad)
Horizontal Angle (rad)

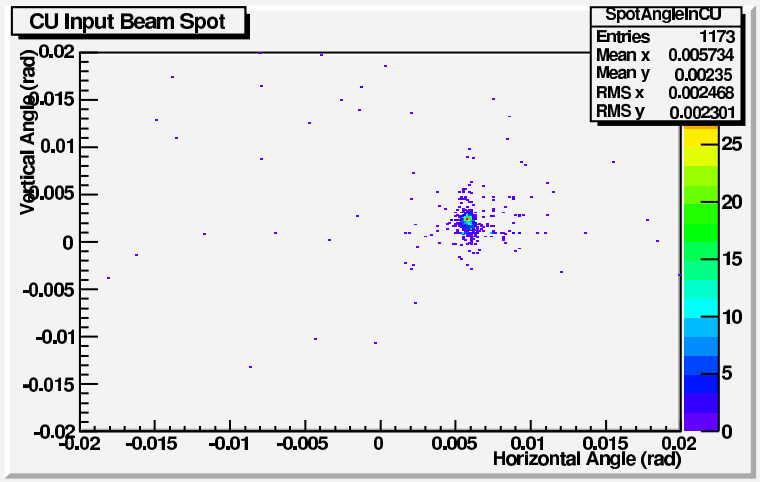

CU Input Horizontal coordinate
HorCoordInCU
Entries 1173
Mean 189.8
RMS 10.55
Position (mm)

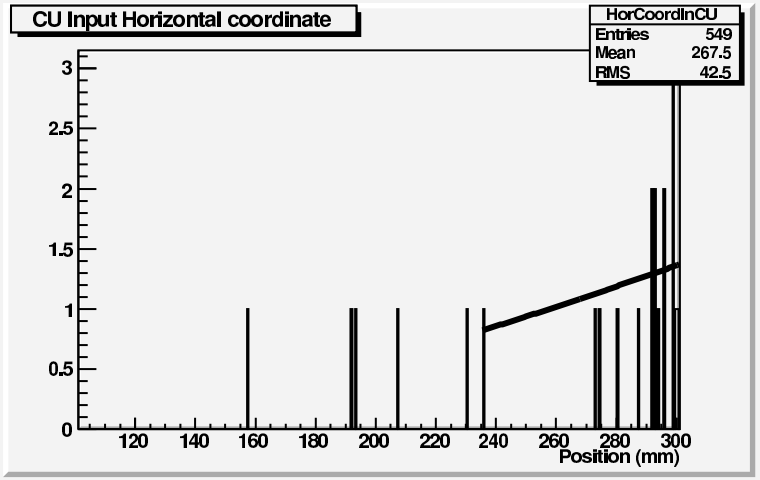

CU Input vertical coordinate
VertCoordInCU
Entries 1173
Mean 9.193
RMS 6.378
Position (mm)

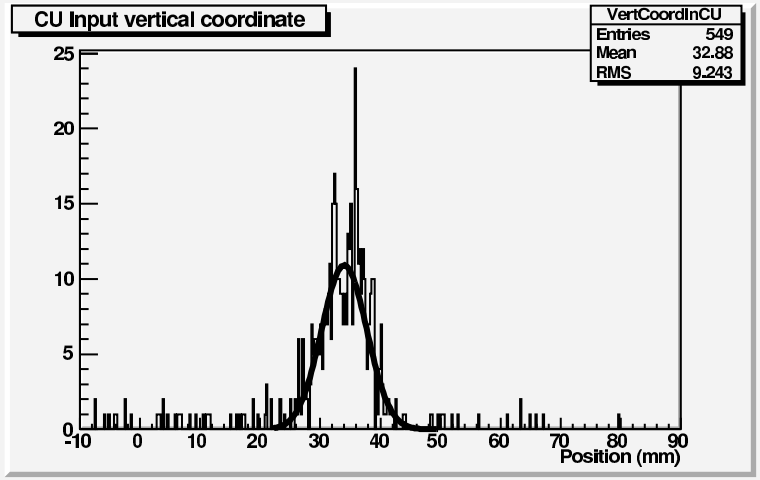

CU Input horizontal angle
HorAngleInCU
Entries 1173
Mean 0.002272
RMS 0.002702
Angle (rad)

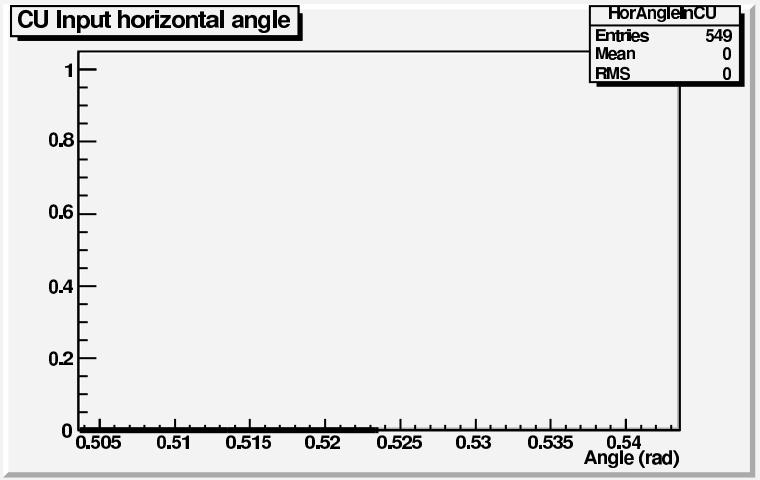

CU Input vertical angle
VertAngleInCU
Entries 1173
Mean 0.005849
RMS 0.002222
Angle (rad)

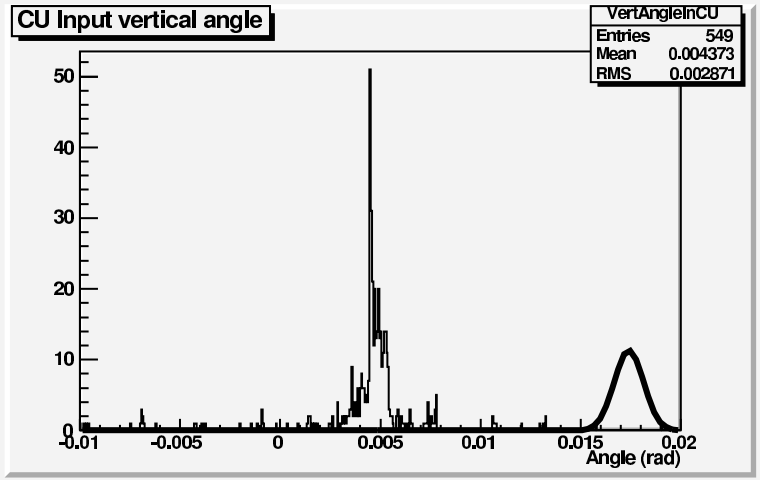

CU Input Beam Spot
SpotCoordInCU
Entries 1173
Mean x 189.1
Mean y 9.442
RMS x 6.561
RMS y 3.973
Vertical Position (mm)
Horizontal Position (mm)

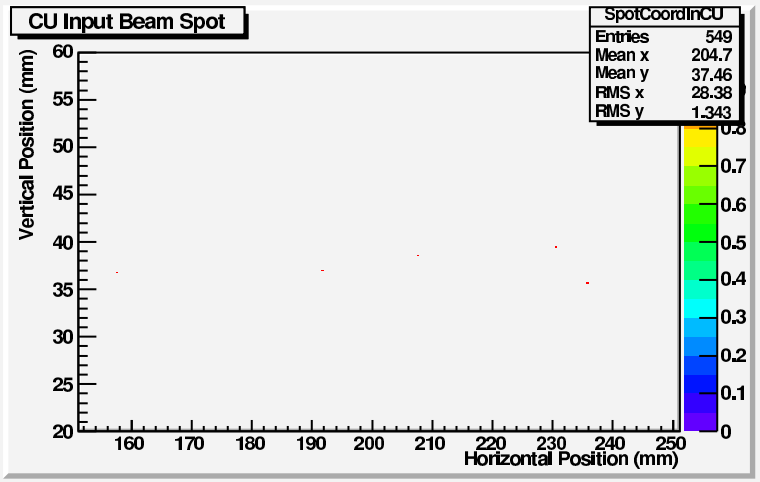

CU Input Beam Spot
SpotAngleInCU
Entries 1173
Mean x 0.005734
Mean y 0.00235
RMS x 0.002468
RMS y 0.002301
Vertical Angle (rad)
Horizontal Angle (rad)

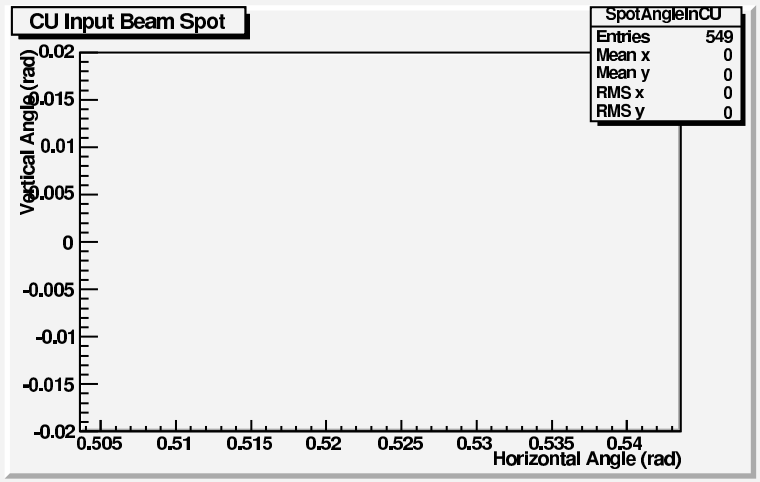

CU Input Horizontal coordinate
HorCoordInCU
Entries 549
Mean 267.5
RMS 42.5
Position (mm)

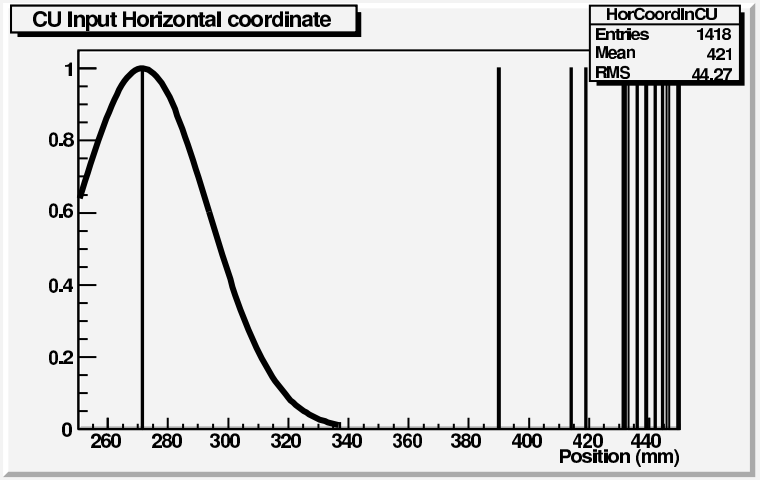

CU Input vertical coordinate
VertCoordInCU
Entries 549
Mean 32.88
RMS 9.243
Position (mm)

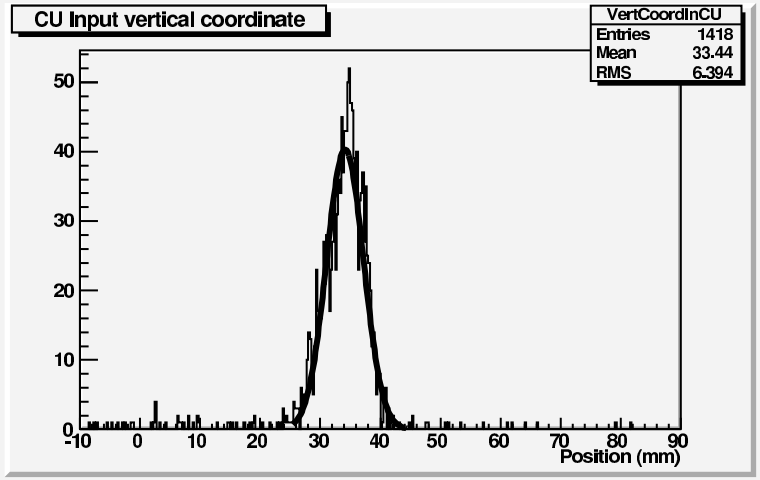

CU Input horizontal angle
HorAngleInCU
Entries 549
Mean 0
RMS 0
Angle (rad)

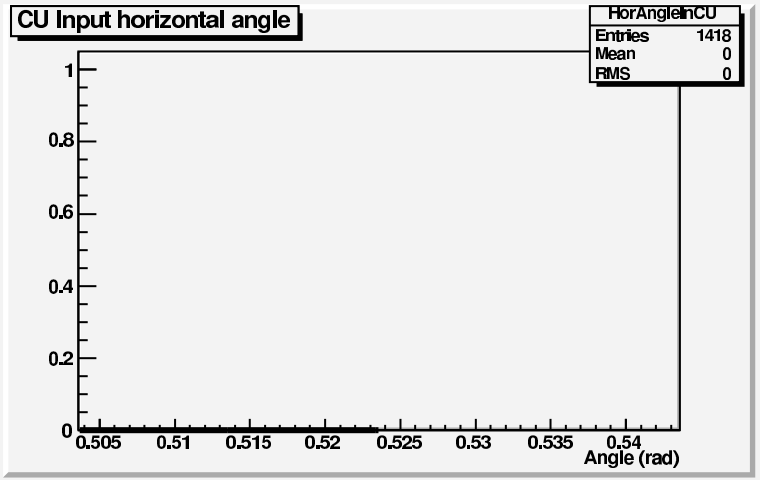

CU Input vertical angle
VertAngleInCU
Entries 549
Mean 0.004373
RMS 0.002871
Angle (rad)

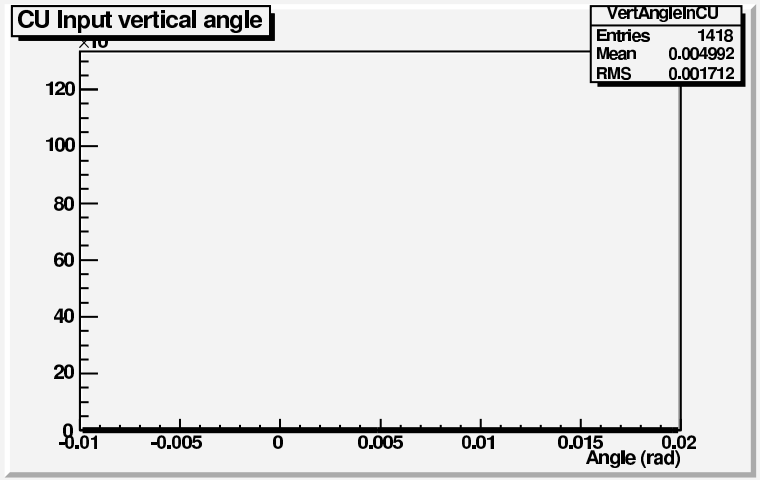

CU Input Beam Spot
SpotCoordInCU
Entries 549
Mean x 204.7
Mean y 37.46
RMS x 28.38
RMS y 1.343
Vertical Position (mm)
Horizontal Position (mm)

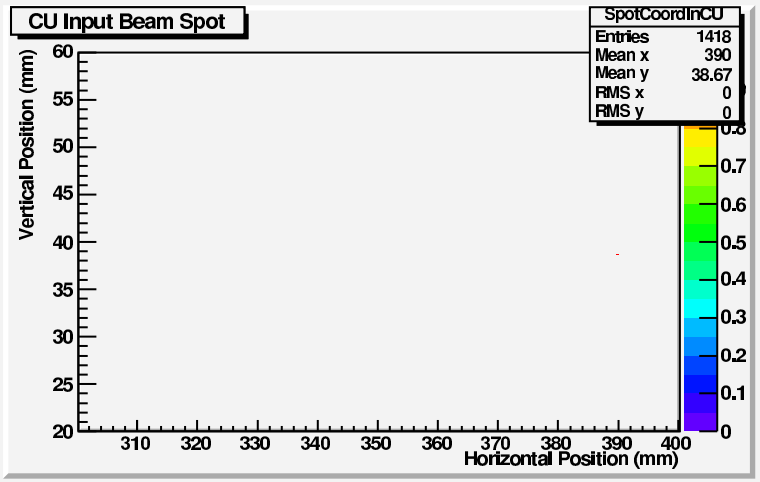

CU Input Beam Spot
SpotAngleInCU
Entries 549
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

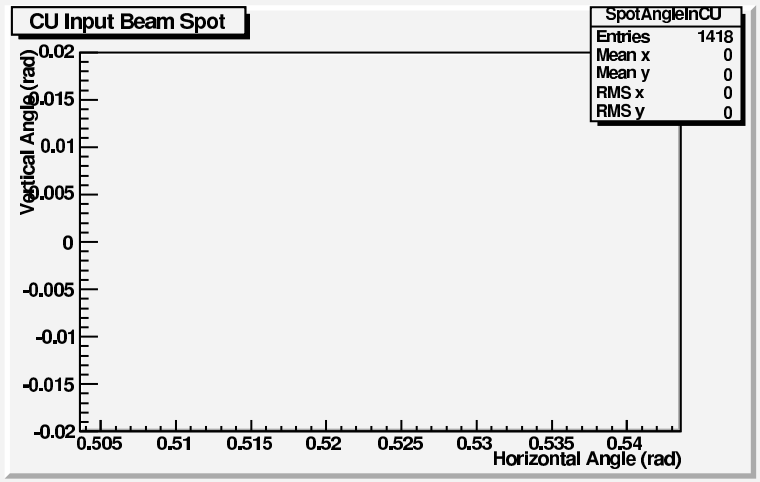

CU Input Horizontal coordinate
HorCoordInCU
Entries 1418
Mean 421
RMS 44.27
Position (mm)

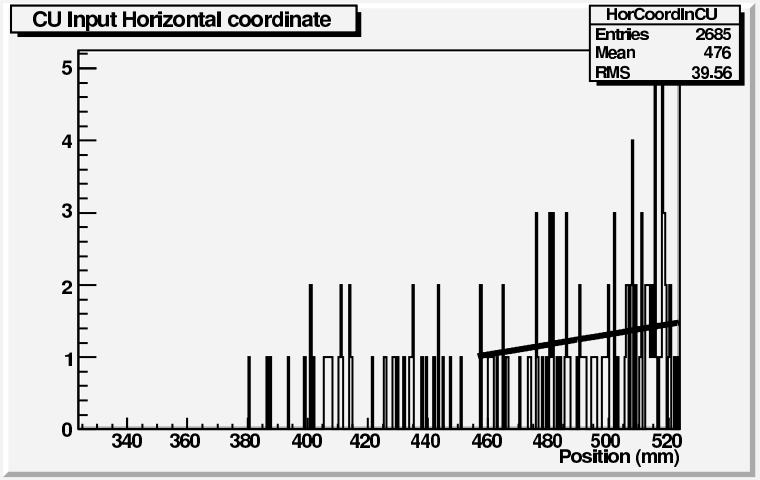

CU Input vertical coordinate
VertCoordInCU
Entries 1418
Mean 33.44
RMS 6.394
Position (mm)

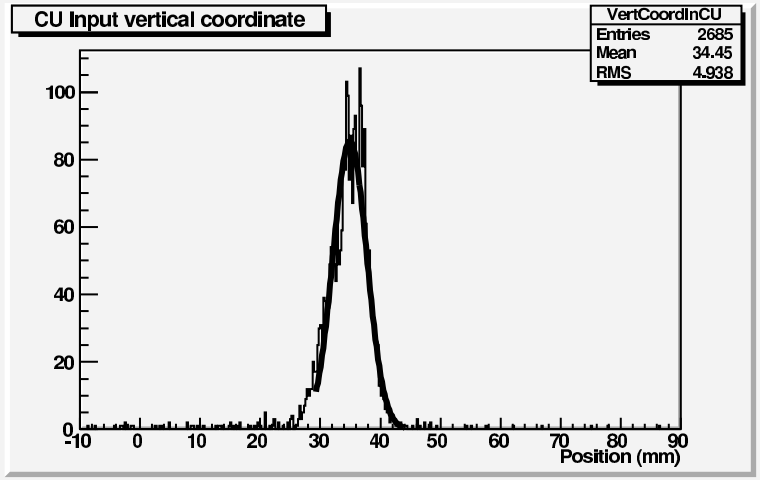

CU Input horizontal angle
HorAngleInCU
Entries 1418
Mean 0
RMS 0
Angle (rad)

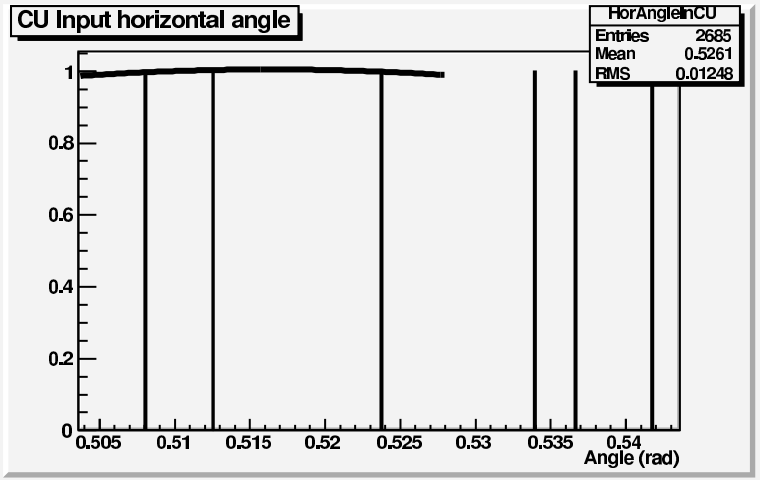

CU Input vertical angle
VertAngleInCU
Entries 1418
Mean 0.004992
RMS 0.001712
Angle (rad)

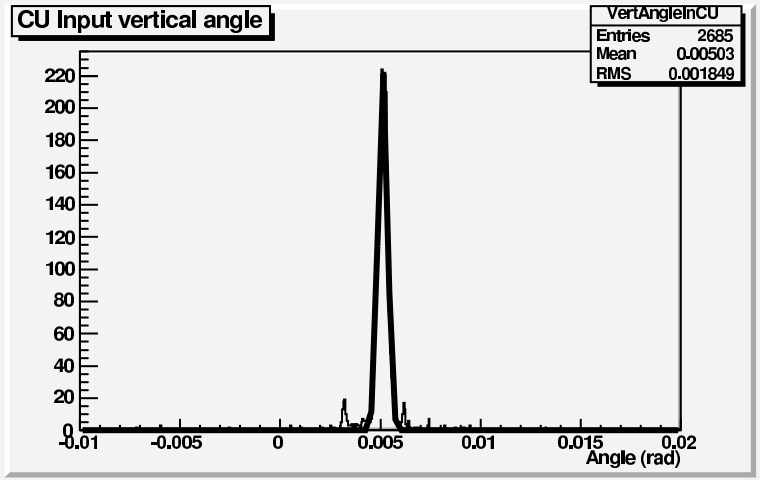

CU Input Beam Spot
SpotCoordInCU
Entries 1418
Mean x 390
Mean y 38.67
RMS x 0
RMS y 0
Vertical Position (mm)
Horizontal Position (mm)

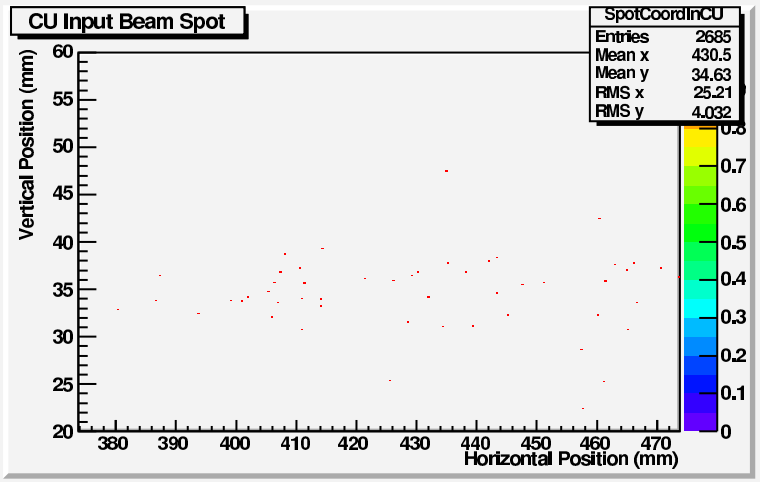

CU Input Beam Spot
SpotAngleInCU
Entries 1418
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

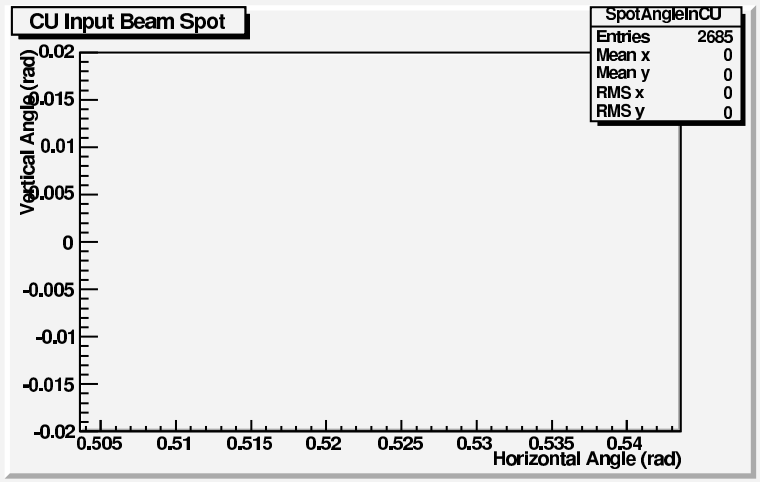

CU Input Horizontal coordinate
HorCoordInCU
Entries 2685
Mean 476
RMS 39.56
Position (mm)

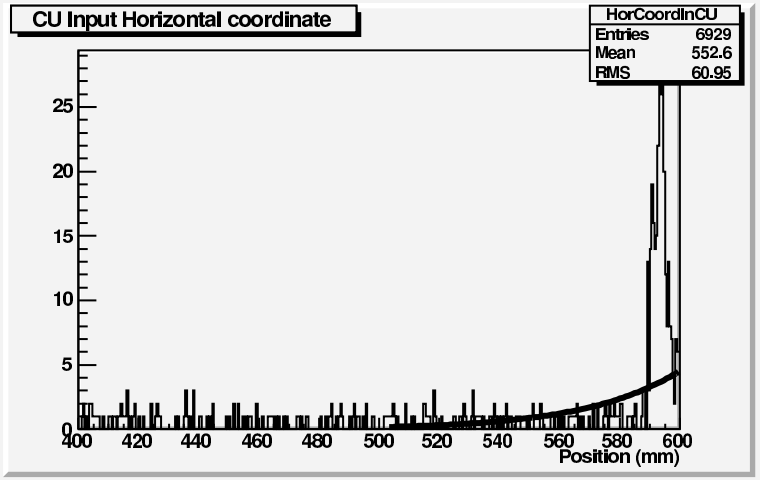

CU Input vertical coordinate
VertCoordInCU
Entries 2685
Mean 34.45
RMS 4.938
Position (mm)

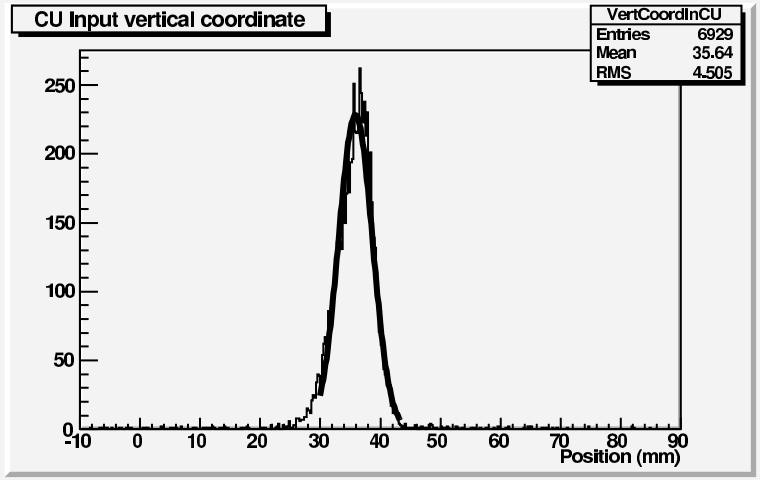

CU Input horizontal angle
HorAngleInCU
Entries 2685
Mean 0.5261
RMS 0.01248
Angle (rad)

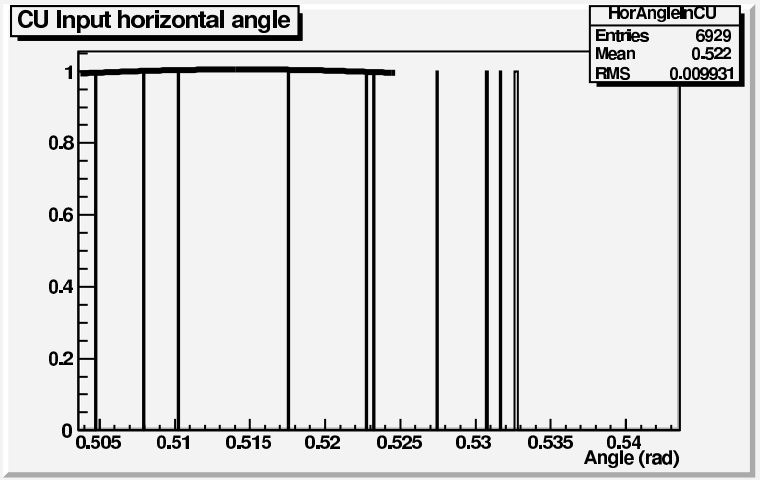

CU Input vertical angle
VertAngleInCU
Entries 2685
Mean 0.00503
RMS 0.001849
Angle (rad)

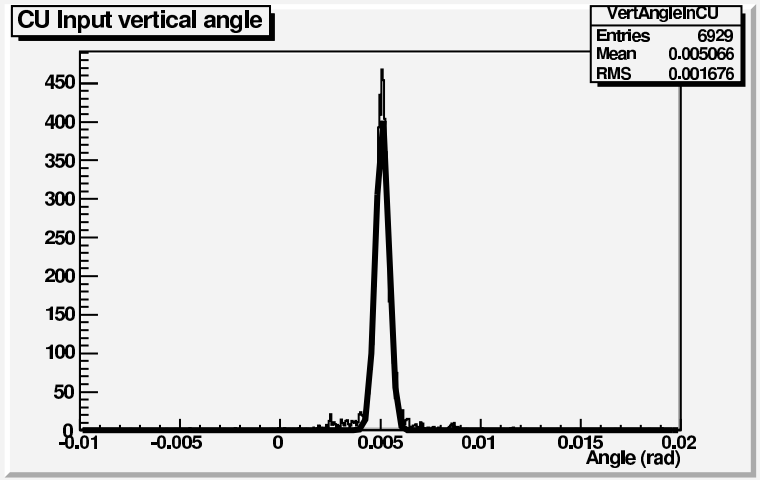

CU Input Beam Spot
SpotCoordInCU
Entries 2685
Mean x 430.5
Mean y 34.63
RMS x 25.21
RMS y 4.032
Vertical Position (mm)
Horizontal Position (mm)

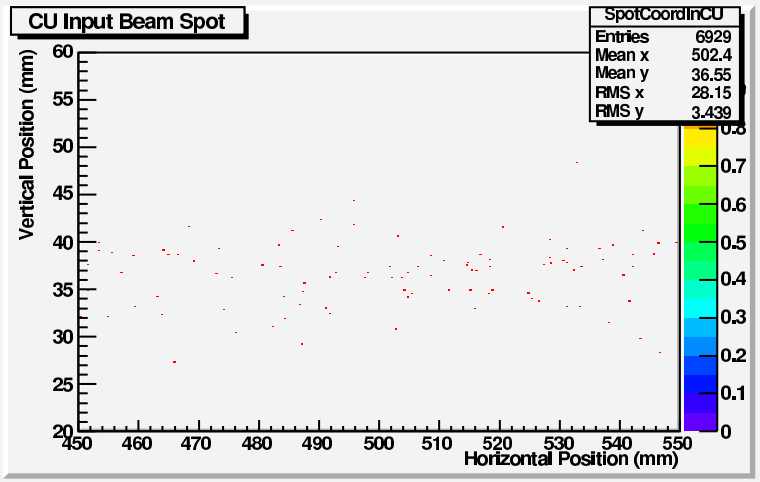

CU Input Beam Spot
SpotAngleInCU
Entries 2685
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

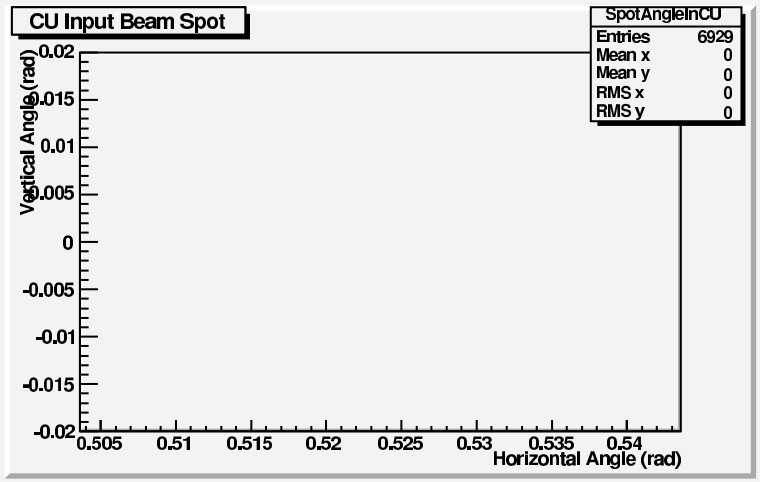

CU Input Horizontal coordinate
HorCoordInCU
Entries 6929
Mean 552.6
RMS 60.95
Position (mm)

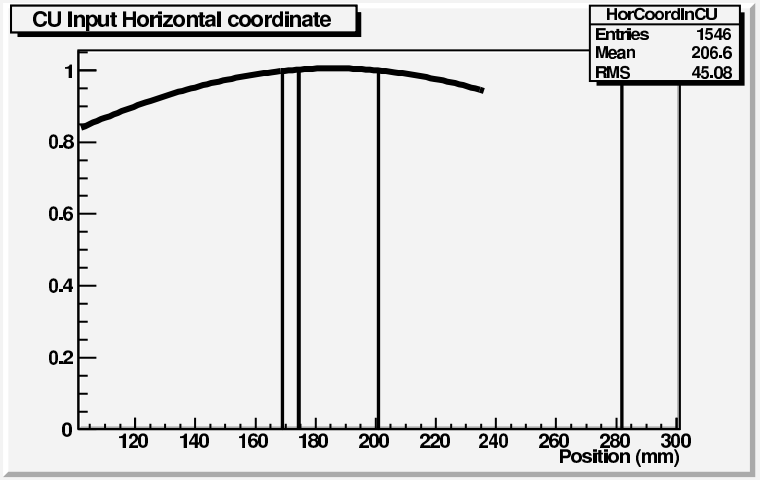

CU Input vertical coordinate
VertCoordInCU
Entries 6929
Mean 35.64
RMS 4.505
Position (mm)

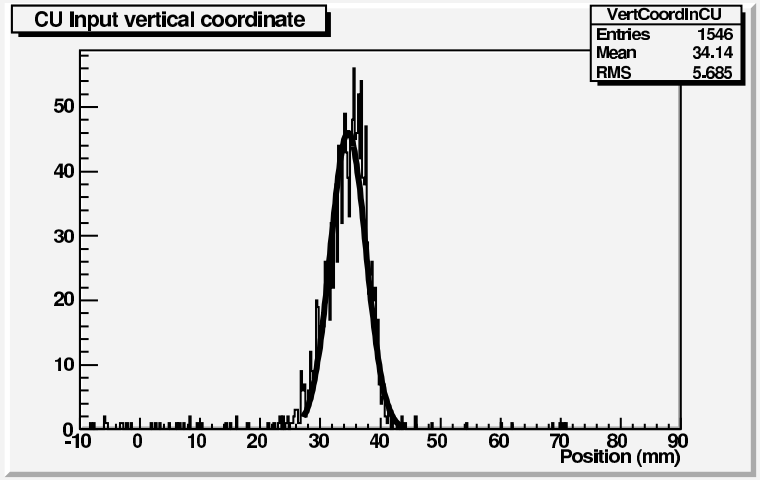

CU Input horizontal angle
HorAngleInCU
Entries 6929
Mean 0.522
RMS 0.009931
Angle (rad)

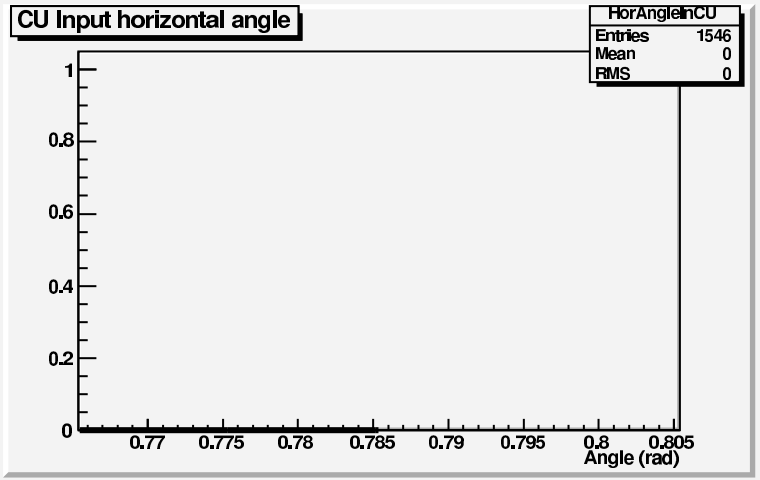

CU Input vertical angle
VertAngleInCU
Entries 6929
Mean 0.005066
RMS 0.001676
Angle (rad)

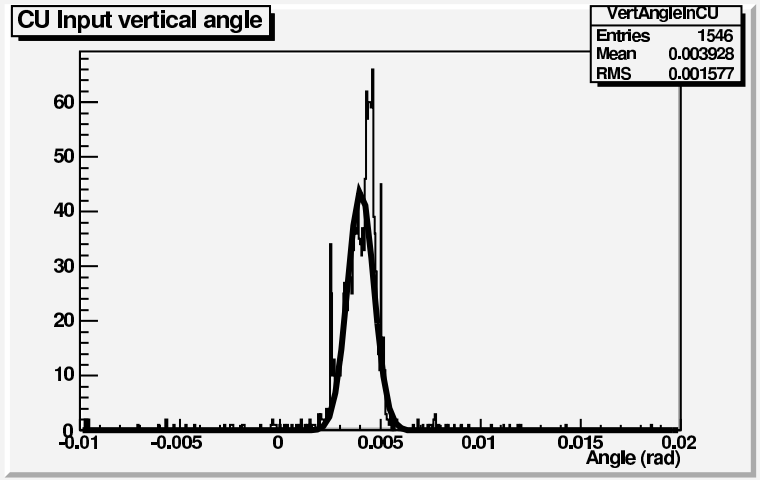

CU Input Beam Spot
SpotCoordInCU
Entries 6929
Mean x 502.4
Mean y 36.55
RMS x 28.15
RMS y 3.439
Vertical Position (mm)
Horizontal Position (mm)

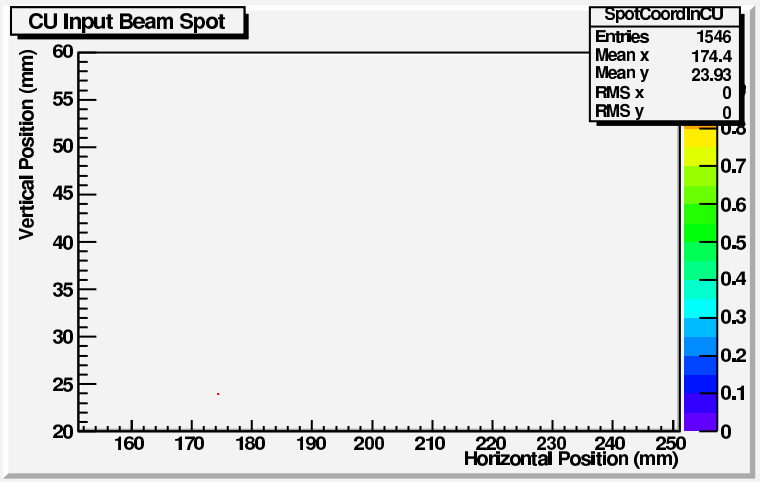

CU Input Beam Spot
SpotAngleInCU
Entries 6929
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

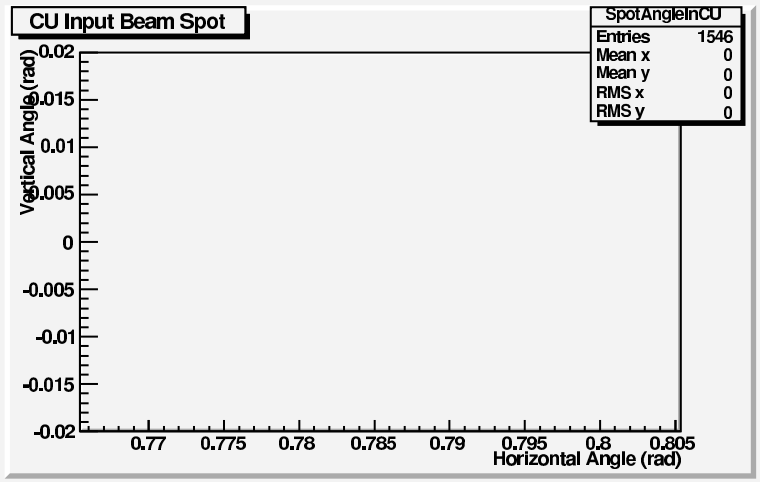

CU Input Horizontal coordinate
HorCoordInCU
Entries 1546
Mean 206.6
RMS 45.08
Position (mm)

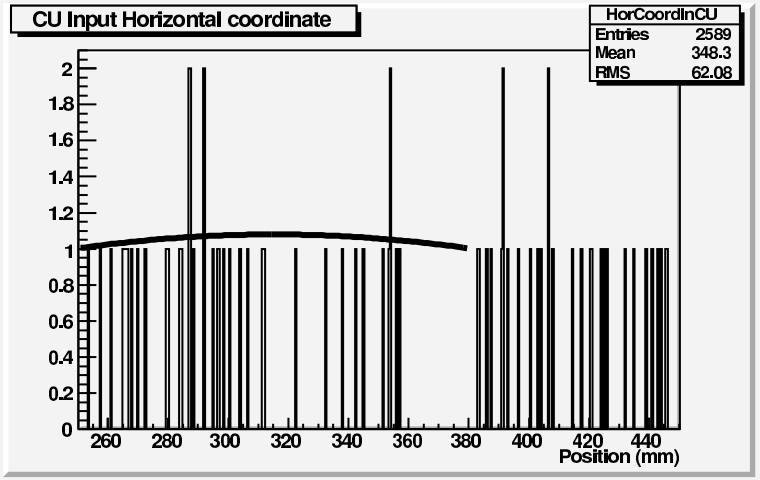

CU Input vertical coordinate
VertCoordInCU
Entries 1546
Mean 34.14
RMS 5.685
Position (mm)

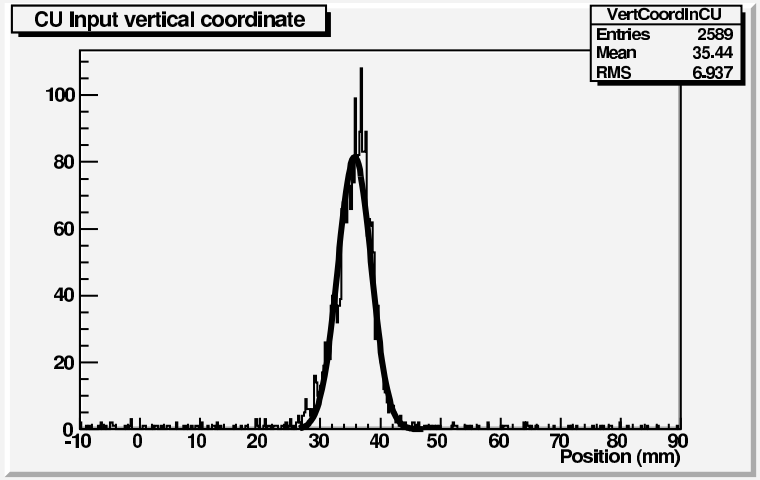

CU Input horizontal angle
HorAngleInCU
Entries 1546
Mean 0
RMS 0
Angle (rad)

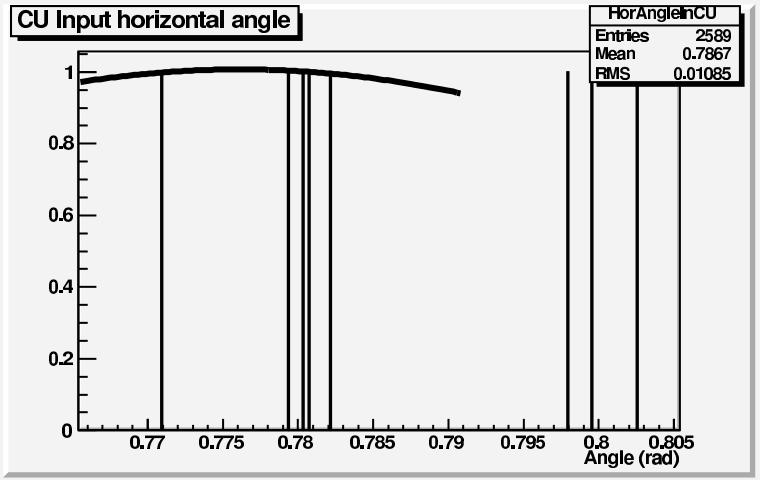

CU Input vertical angle
VertAngleInCU
Entries 1546
Mean 0.003928
RMS 0.001577
Angle (rad)

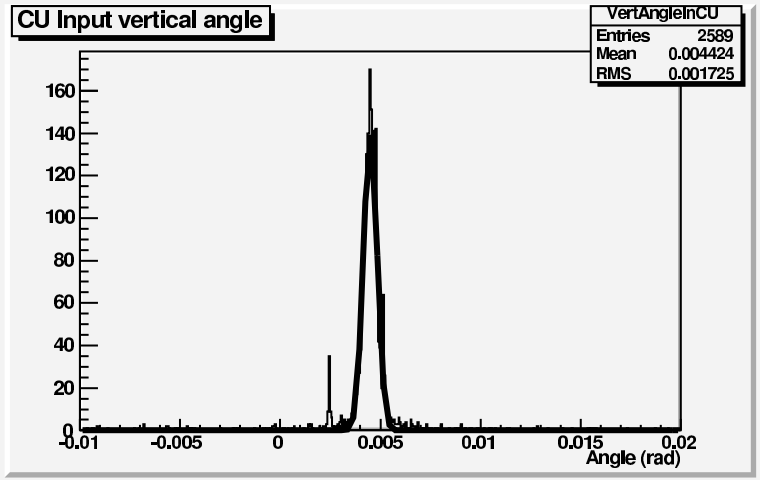

CU Input Beam Spot
SpotCoordInCU
Entries 1546
Mean x 174.4
Mean y 23.93
RMS x 0
RMS y 0
Vertical Position (mm)
Horizontal Position (mm)

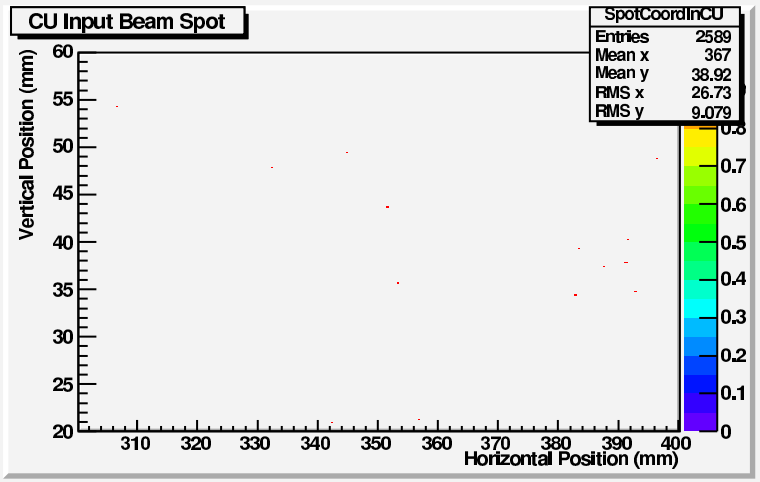

CU Input Beam Spot
SpotAngleInCU
Entries 1546
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

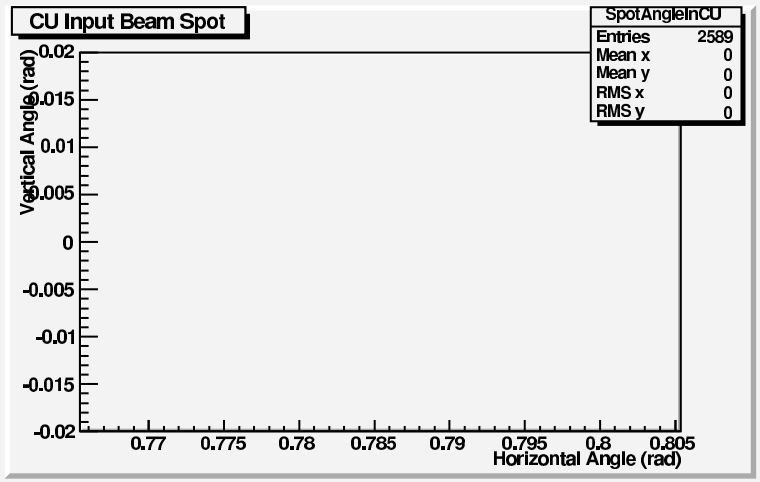

CU Input Horizontal coordinate
HorCoordInCU
Entries 2589
Mean 348.3
RMS 62.08
Position (mm)

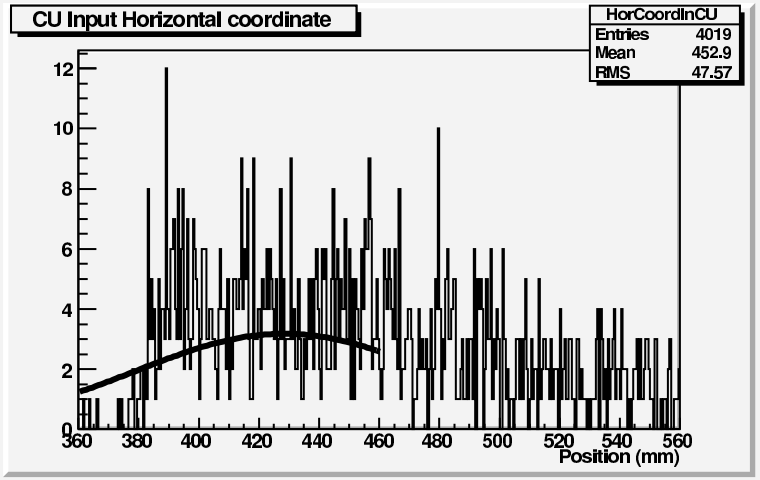

CU Input vertical coordinate
VertCoordInCU
Entries 2589
Mean 35.44
RMS 6.937
Position (mm)

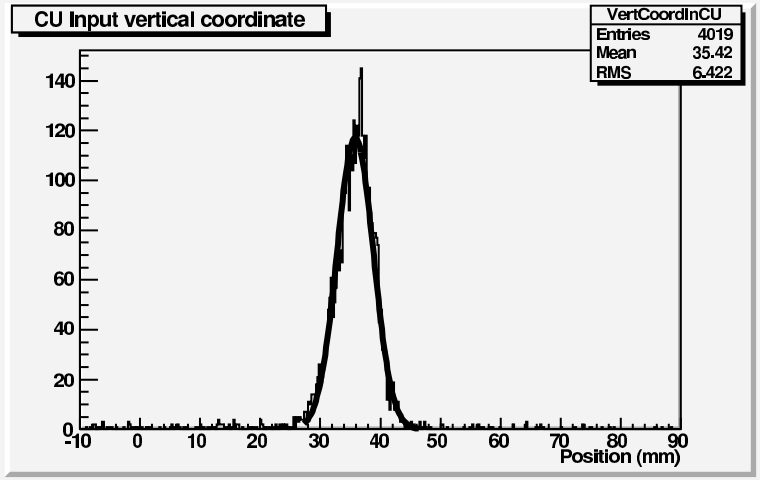

CU Input horizontal angle
HorAngleInCU
Entries 2589
Mean 0.7867
RMS 0.01085
Angle (rad)

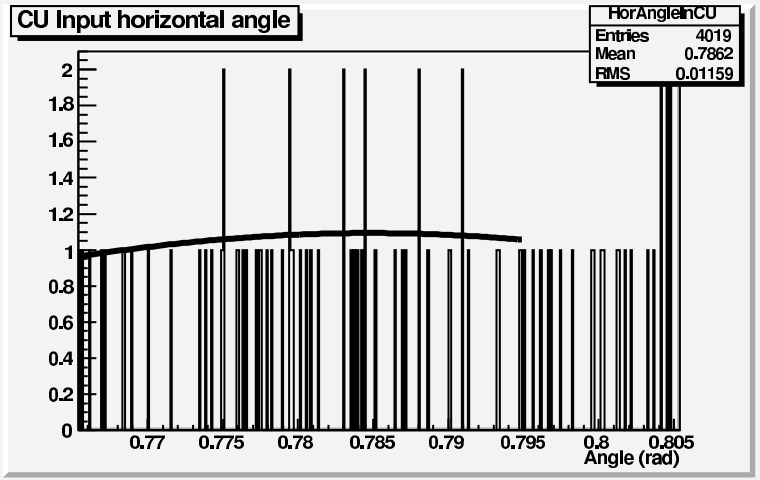

CU Input vertical angle
VertAngleInCU
Entries 2589
Mean 0.004424
RMS 0.001725
Angle (rad)

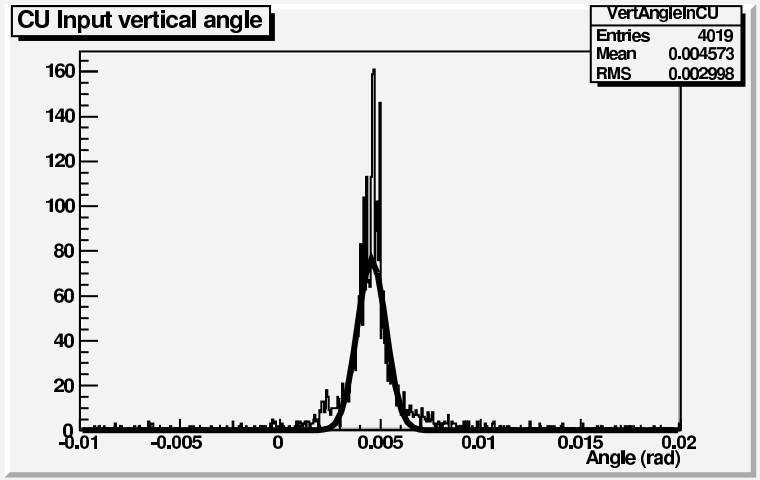

CU Input Beam Spot
SpotCoordInCU
Entries 2589
Mean x 367
Mean y 38.92
RMS x 26.73
RMS y 9.079
Vertical Position (mm)
Horizontal Position (mm)

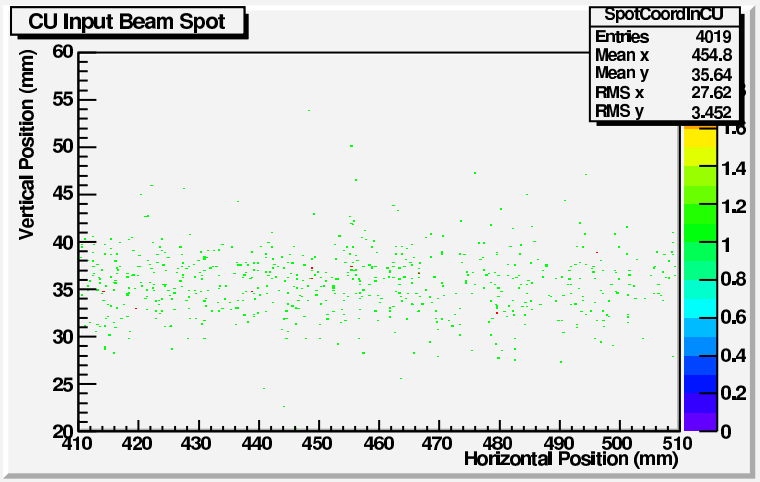

CU Input Beam Spot
SpotAngleInCU
Entries 2589
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

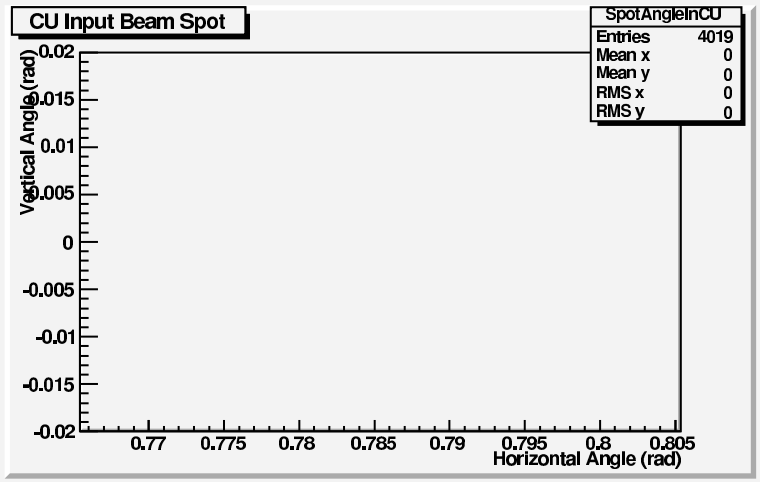

CU Input Horizontal coordinate
HorCoordInCU
Entries 4019
Mean 452.9
RMS 47.57
Position (mm)

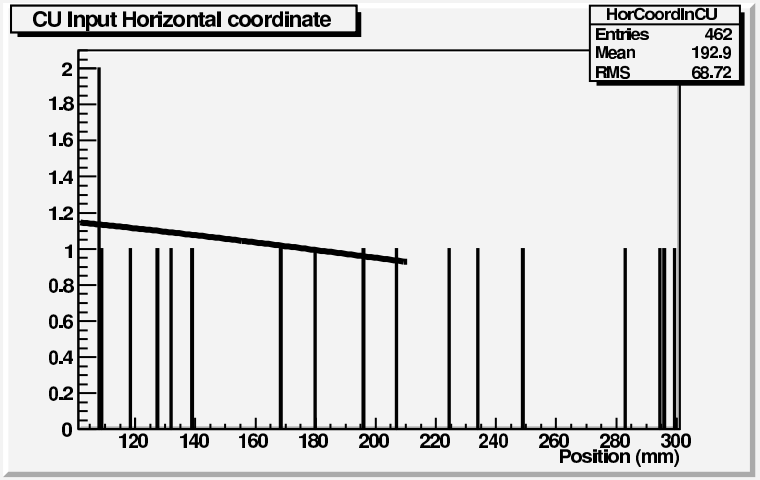

CU Input vertical coordinate
VertCoordInCU
Entries 4019
Mean 35.42
RMS 6.422
Position (mm)

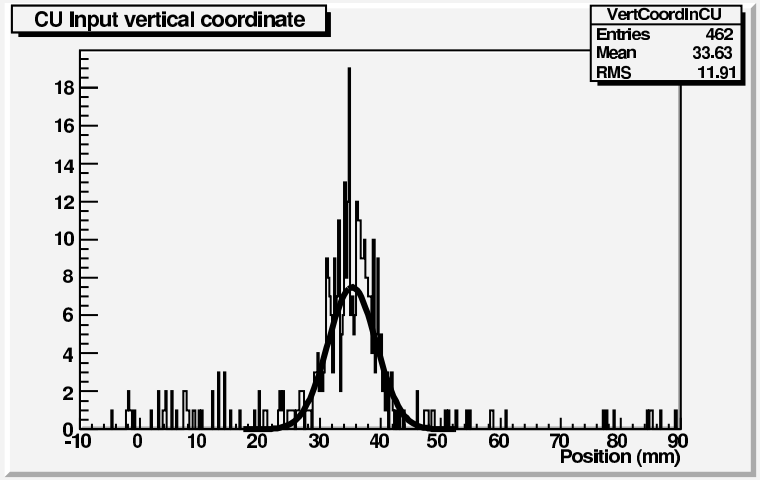

CU Input horizontal angle
HorAngleInCU
Entries 4019
Mean 0.7862
RMS 0.01159
Angle (rad)

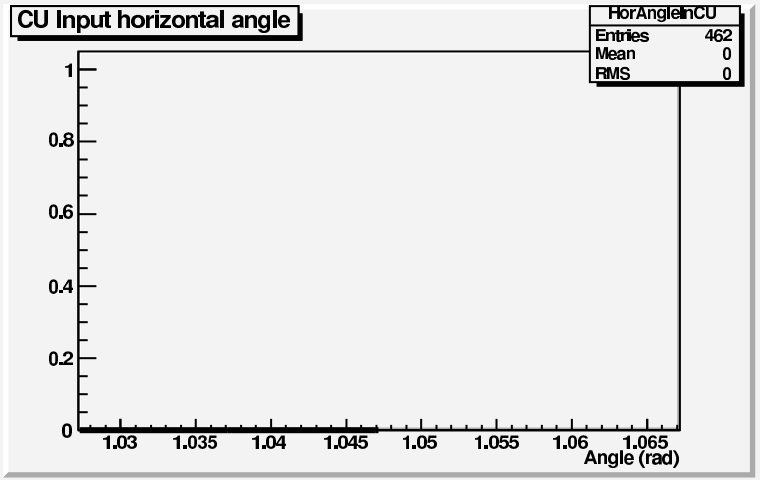

CU Input vertical angle
VertAngleInCU
Entries 4019
Mean 0.004573
RMS 0.002998
Angle (rad)

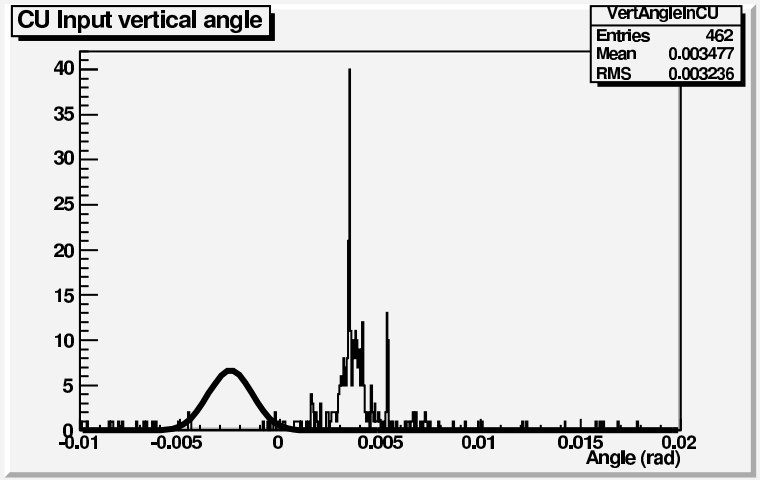

CU Input Beam Spot
SpotCoordInCU
Entries 4019
Mean x 454.8
Mean y 35.64
RMS x 27.62
RMS y 3.452
Vertical Position (mm)
Horizontal Position (mm)

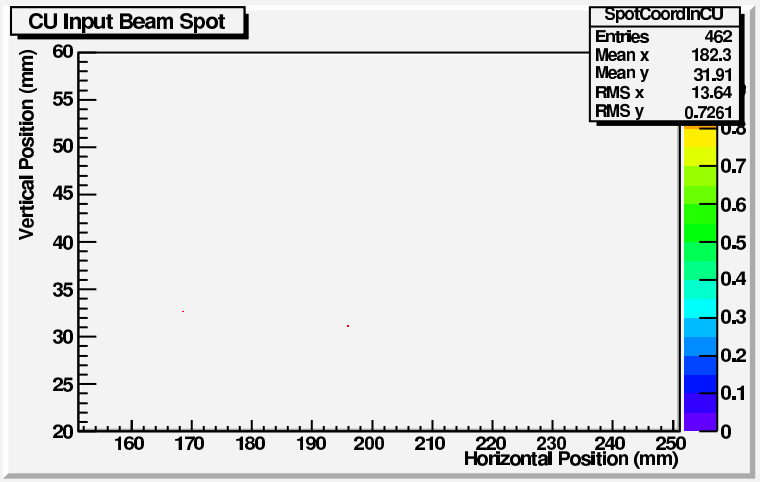

CU Input Beam Spot
SpotAngleInCU
Entries 4019
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

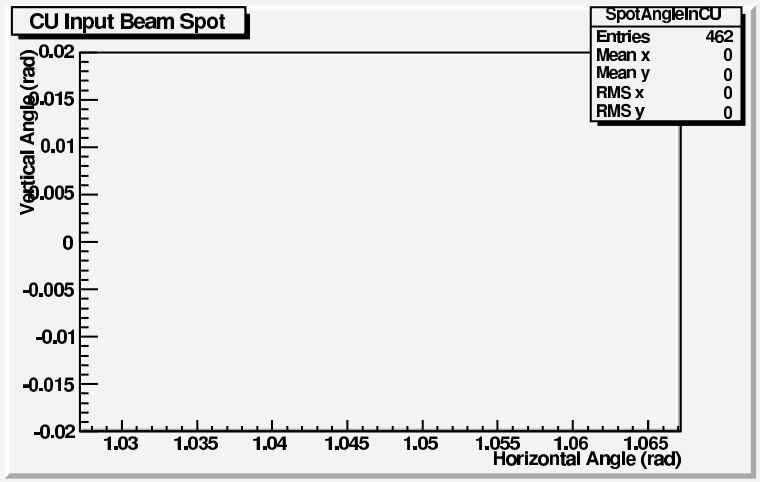

CU Input Horizontal coordinate
HorCoordInCU
Entries 462
Mean 192.9
RMS 68.72
Position (mm)

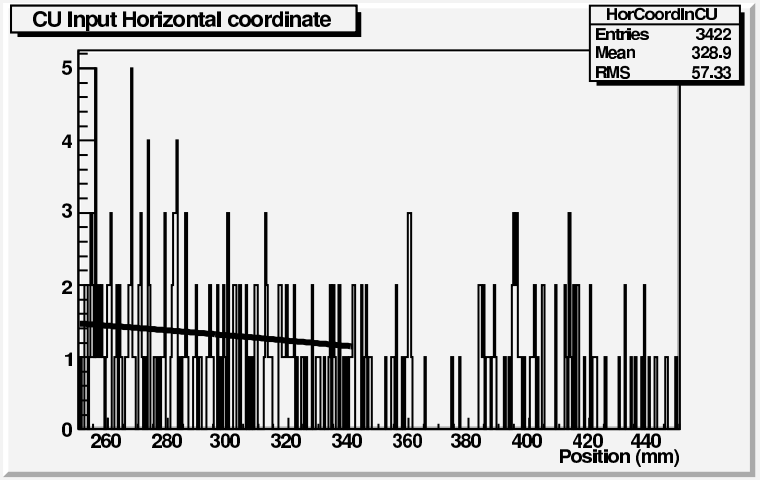

CU Input vertical coordinate
VertCoordInCU
Entries 462
Mean 33.63
RMS 11.91
Position (mm)

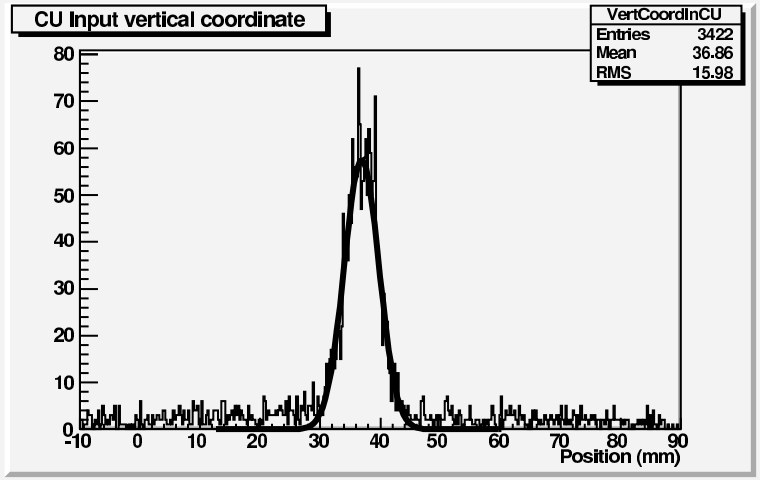

CU Input horizontal angle
HorAngleInCU
Entries 462
Mean 0
RMS 0
Angle (rad)

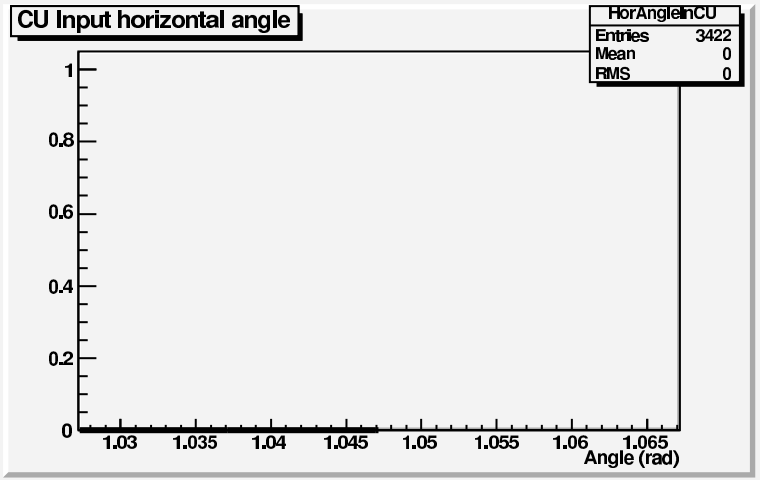

CU Input vertical angle
VertAngleInCU
Entries 462
Mean 0.003477
RMS 0.003236
Angle (rad)

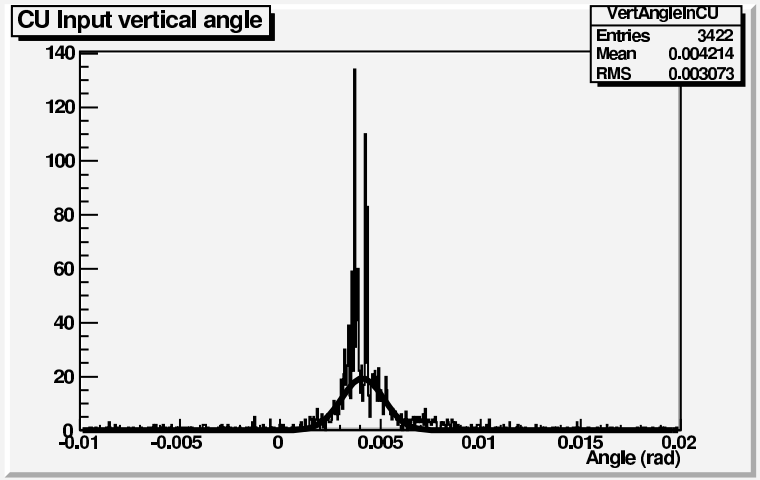

CU Input Beam Spot
SpotCoordInCU
Entries 462
Mean x 182.3
Mean y 31.91
RMS x 13.64
RMS y 0.7261
Vertical Position (mm)
Horizontal Position (mm)

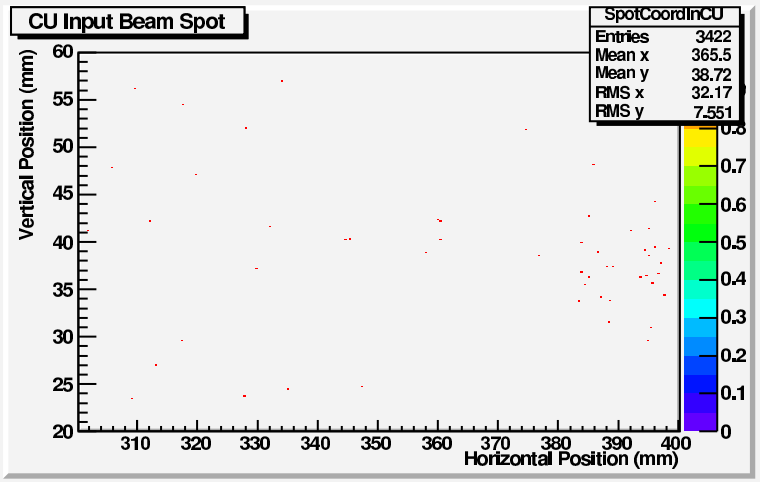

CU Input Beam Spot
SpotAngleInCU
Entries 462
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

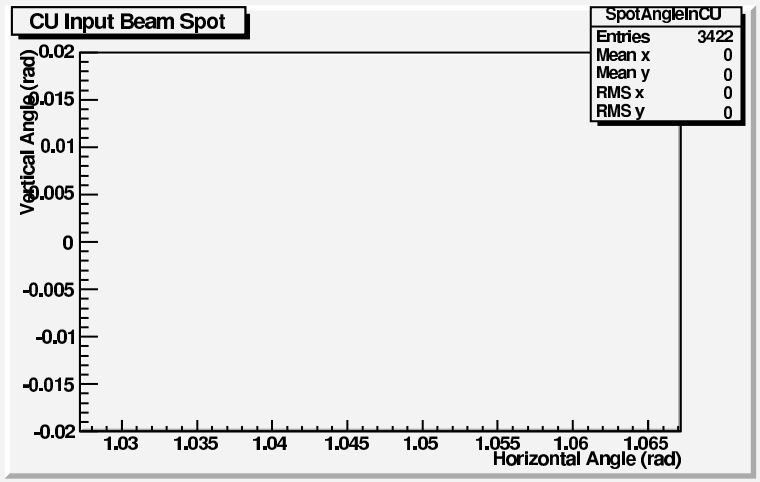

CU Input Horizontal coordinate
HorCoordInCU
Entries 3422
Mean 328.9
RMS 57.33
Position (mm)

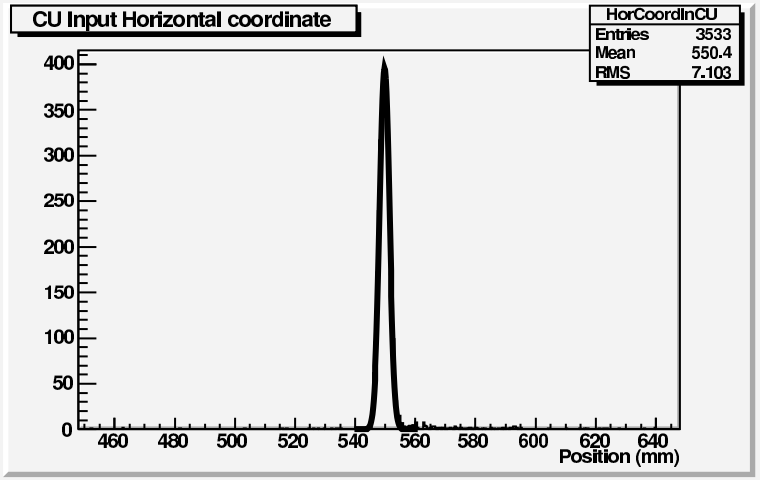

CU Input vertical coordinate
VertCoordInCU
Entries 3422
Mean 36.86
RMS 15.98
Position (mm)

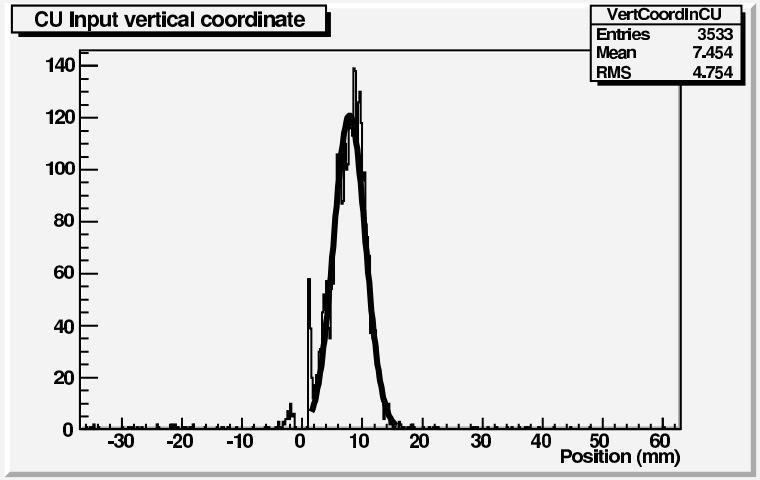

CU Input horizontal angle
HorAngleInCU
Entries 3422
Mean 0
RMS 0
Angle (rad)

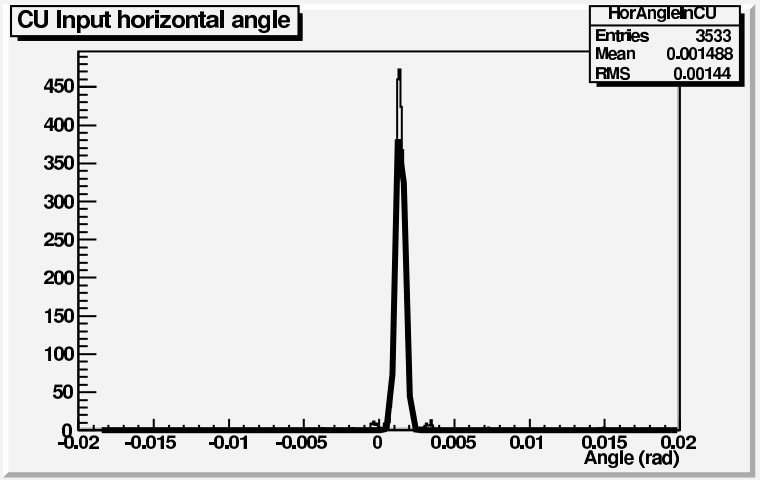

CU Input vertical angle
VertAngleInCU
Entries 3422
Mean 0.004214
RMS 0.003073
Angle (rad)

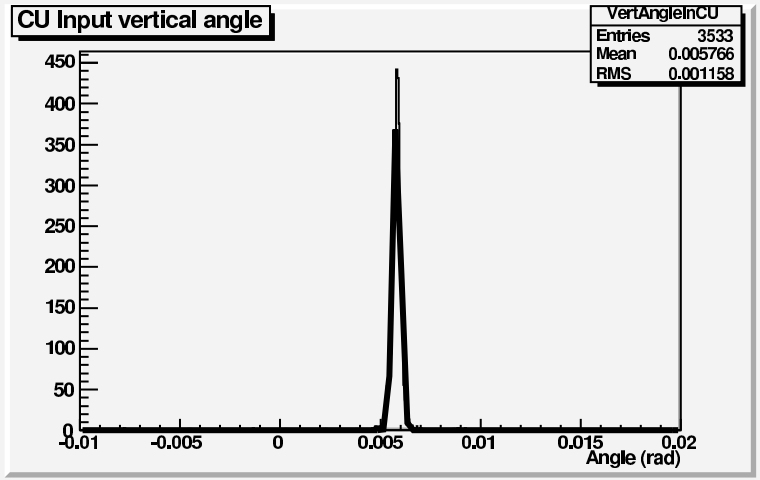

CU Input Beam Spot
SpotCoordInCU
Entries 3422
Mean x 365.5
Mean y 38.72
RMS x 32.17
RMS y 7.551
Vertical Position (mm)
Horizontal Position (mm)

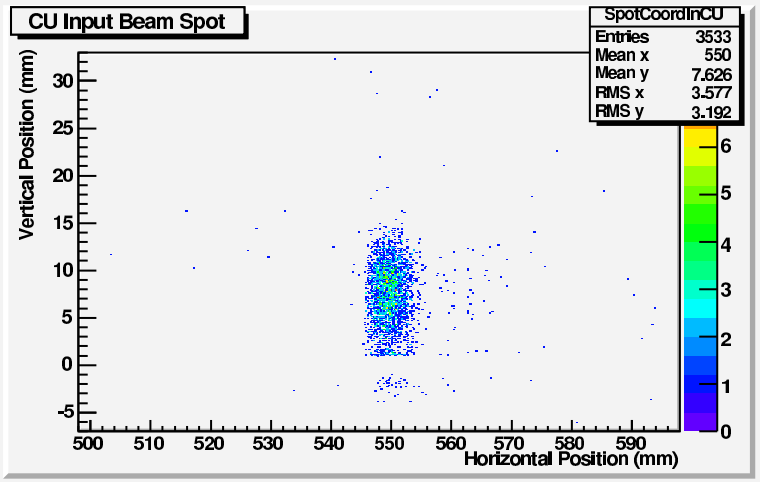

CU Input Beam Spot
SpotAngleInCU
Entries 3422
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

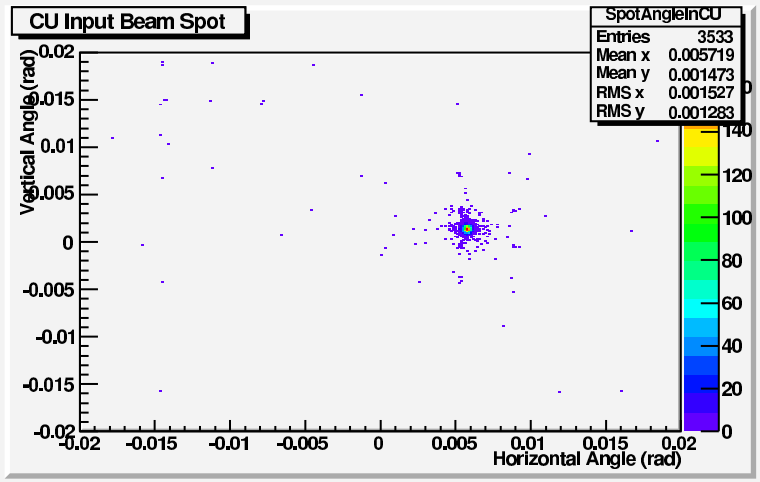

CU Input Horizontal coordinate
HorCoordInCU
Entries 3533
Mean 550.4
RMS 7.103
Position (mm)

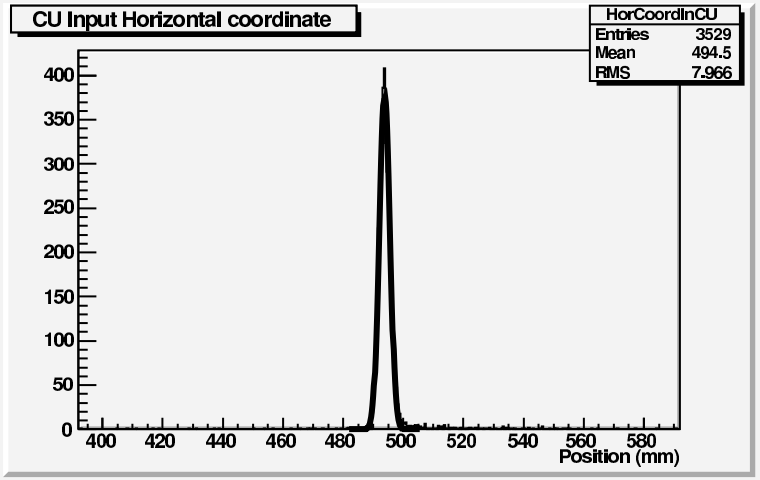

CU Input vertical coordinate
VertCoordInCU
Entries 3533
Mean 7.454
RMS 4.754
Position (mm)

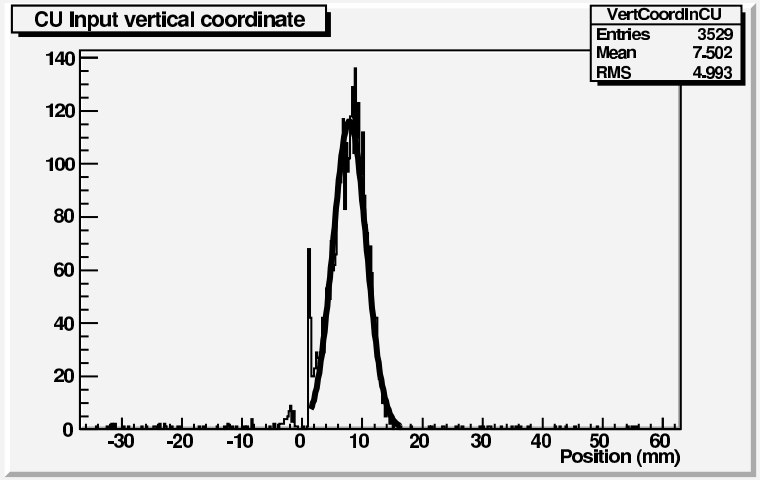

CU Input horizontal angle
HorAngleInCU
Entries 3533
Mean 0.001488
RMS 0.00144
Angle (rad)

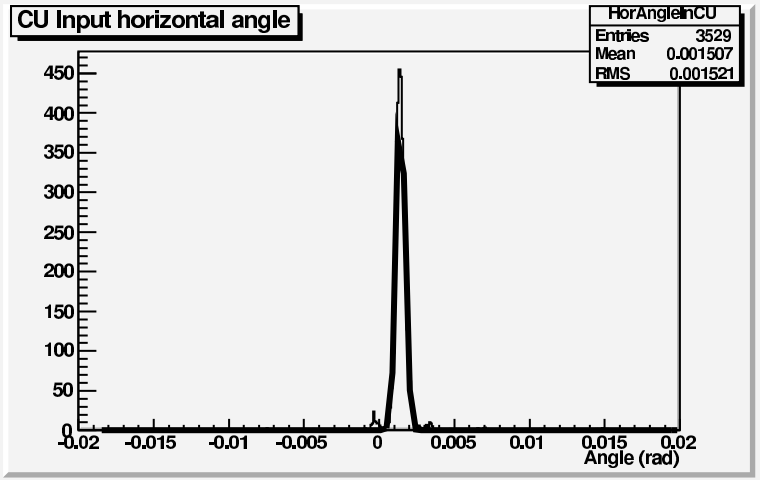

CU Input vertical angle
VertAngleInCU
Entries 3533
Mean 0.005766
RMS 0.001158
Angle (rad)

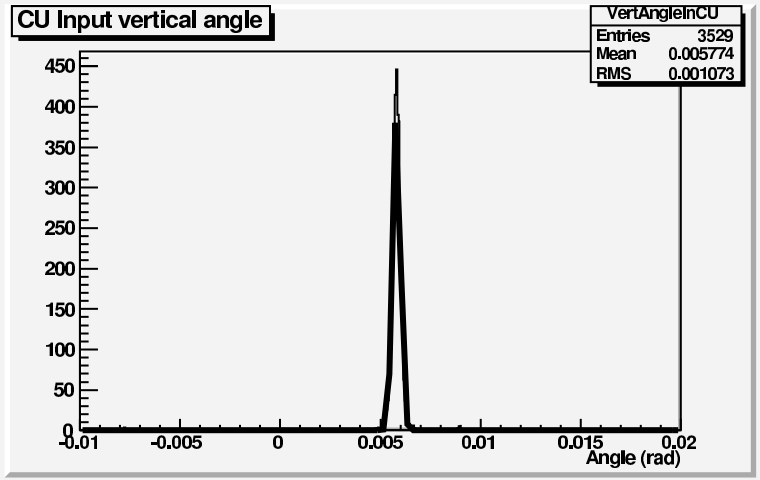

CU Input Beam Spot
SpotCoordInCU
Entries 3533
Mean x 550
Mean y 7.626
RMS x 3.577
RMS y 3.192
Vertical Position (mm)
Horizontal Position (mm)

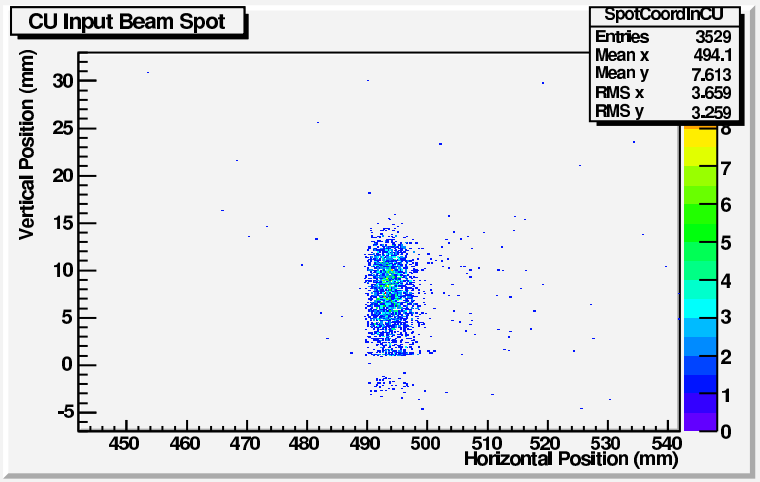

CU Input Beam Spot
SpotAngleInCU
Entries 3533
Mean x 0.005719
Mean y 0.001473
RMS x 0.001527
RMS y 0.001283
Vertical Angle (rad)
Horizontal Angle (rad)

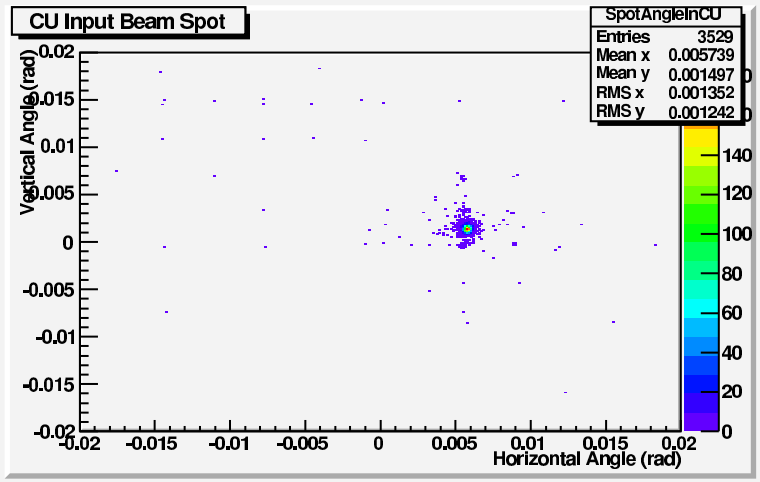

CU Input Horizontal coordinate
HorCoordInCU
Entries 3529
Mean 494.5
RMS 7.966
Position (mm)

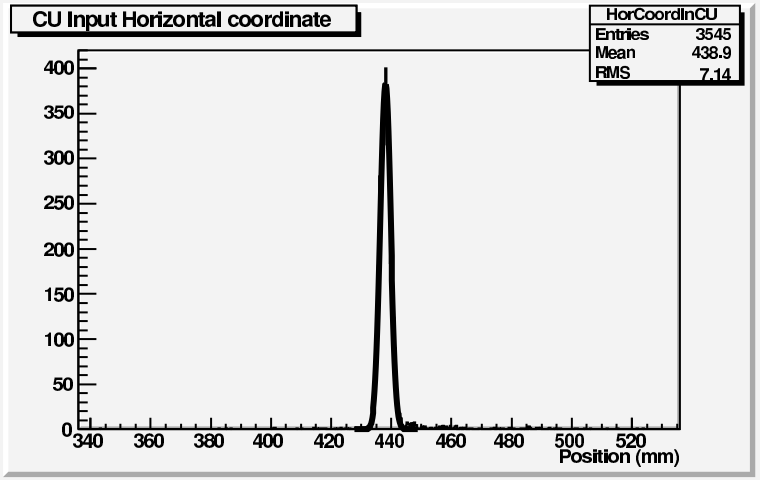

CU Input vertical coordinate
VertCoordInCU
Entries 3529
Mean 7.502
RMS 4.993
Position (mm)

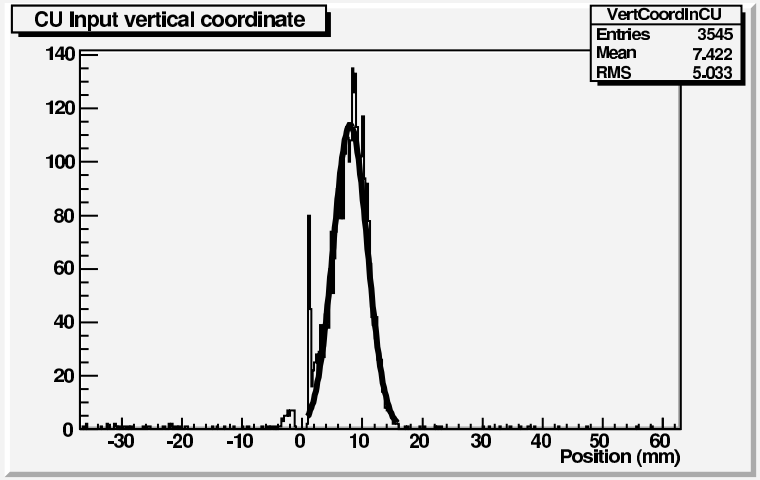

CU Input horizontal angle
HorAngleInCU
Entries 3529
Mean 0.001507
RMS 0.001521
Angle (rad)

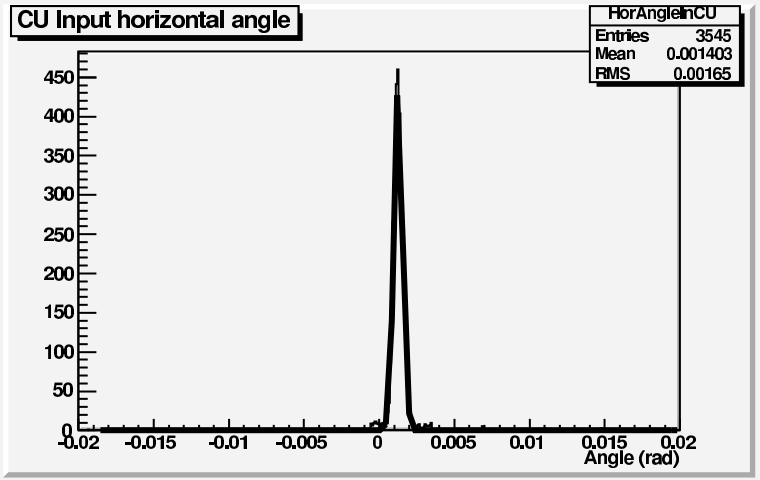

CU Input vertical angle
VertAngleInCU
Entries 3529
Mean 0.005774
RMS 0.001073
Angle (rad)

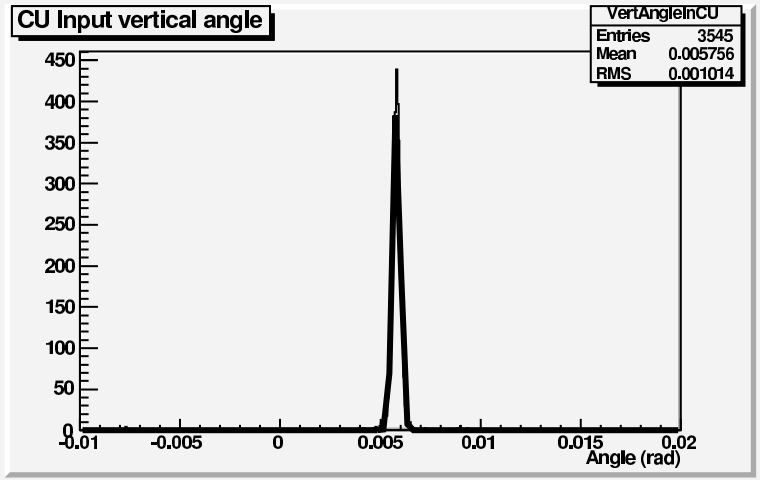

CU Input Beam Spot
SpotCoordInCU
Entries 3529
Mean x 494.1
Mean y 7.613
RMS x 3.659
RMS y 3.259
Vertical Position (mm)
Horizontal Position (mm)

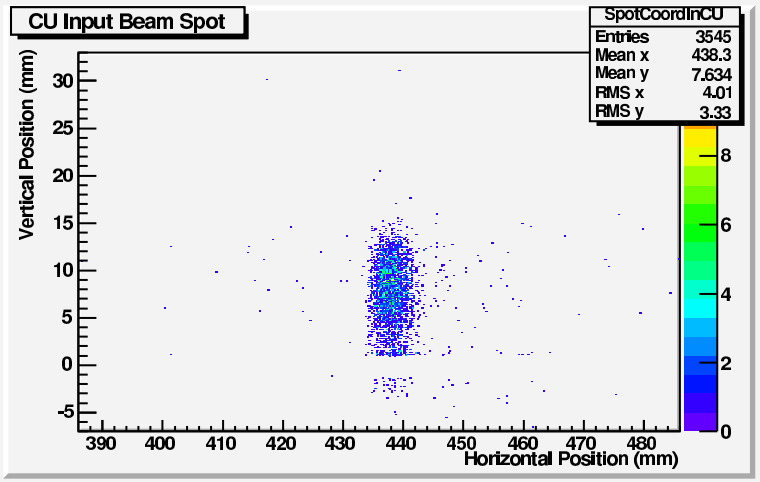

CU Input Beam Spot
SpotAngleInCU
Entries 3529
Mean x 0.005739
Mean y 0.001497
RMS x 0.001352
RMS y 0.001242
Vertical Angle (rad)
Horizontal Angle (rad)

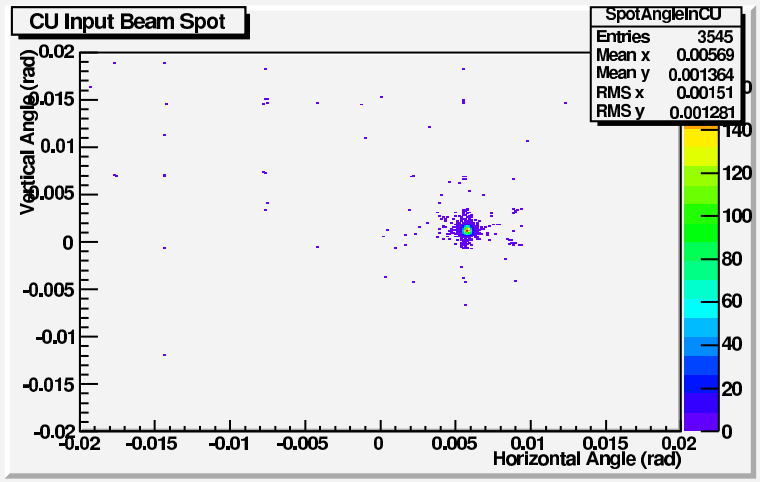

CU Input Horizontal coordinate
HorCoordInCU
Entries 3545
Mean 438.9
RMS 7.14
Position (mm)

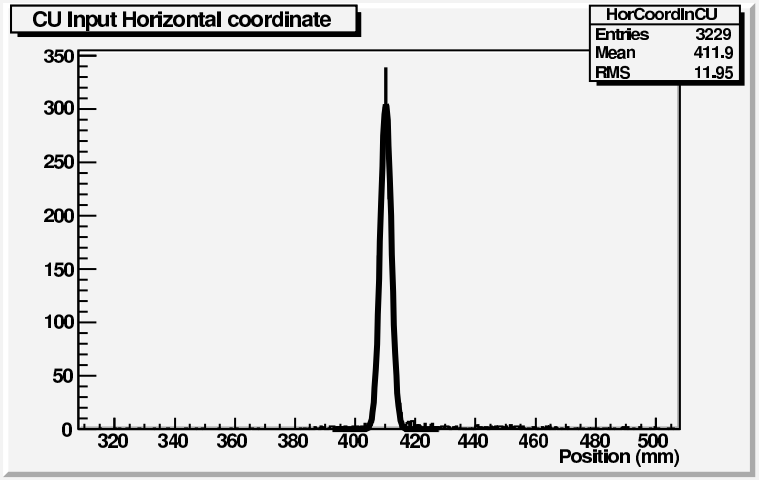

CU Input vertical coordinate
VertCoordInCU
Entries 3545
Mean 7.422
RMS 5.033
Position (mm)

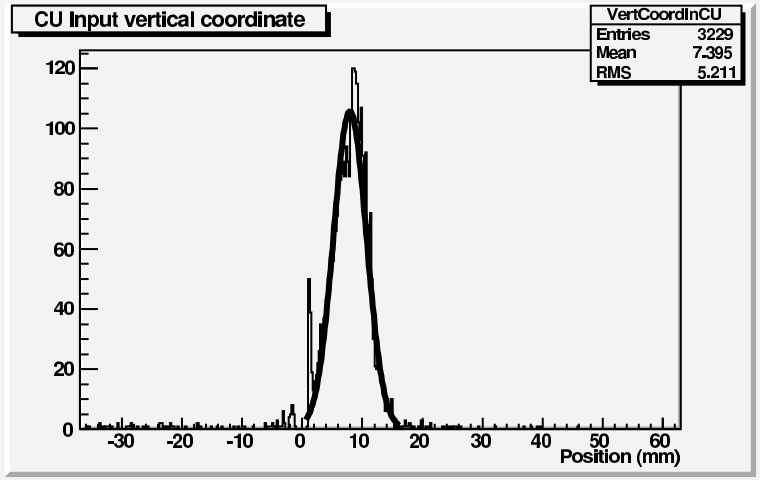

CU Input horizontal angle
HorAngleInCU
Entries 3545
Mean 0.001403
RMS 0.00165
Angle (rad)

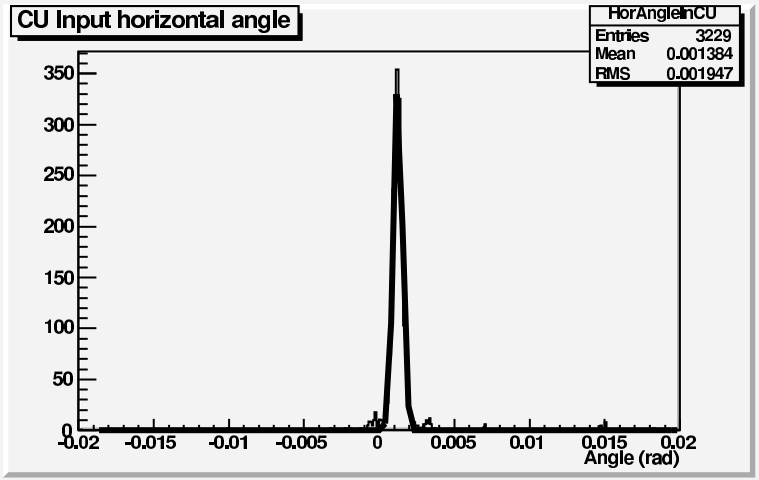

CU Input vertical angle
VertAngleInCU
Entries 3545
Mean 0.005756
RMS 0.001014
Angle (rad)

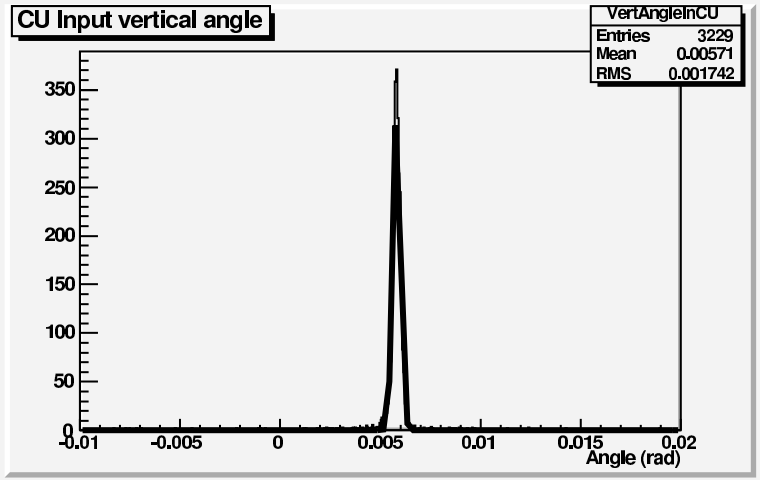

CU Input Beam Spot
SpotCoordInCU
Entries 3545
Mean x 438.3
Mean y 7.634
RMS x 4.01
RMS y 3.33
Vertical Position (mm)
Horizontal Position (mm)

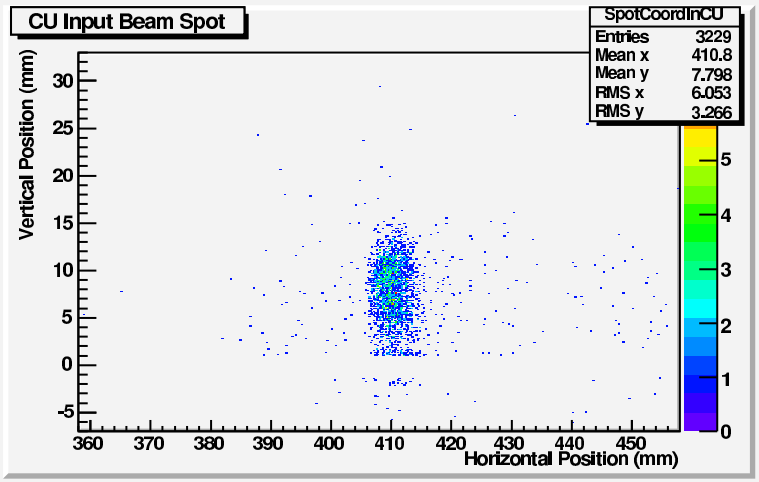

CU Input Beam Spot
SpotAngleInCU
Entries 3545
Mean x 0.00569
Mean y 0.001364
RMS x 0.00151
RMS y 0.001281
Vertical Angle (rad)
Horizontal Angle (rad)

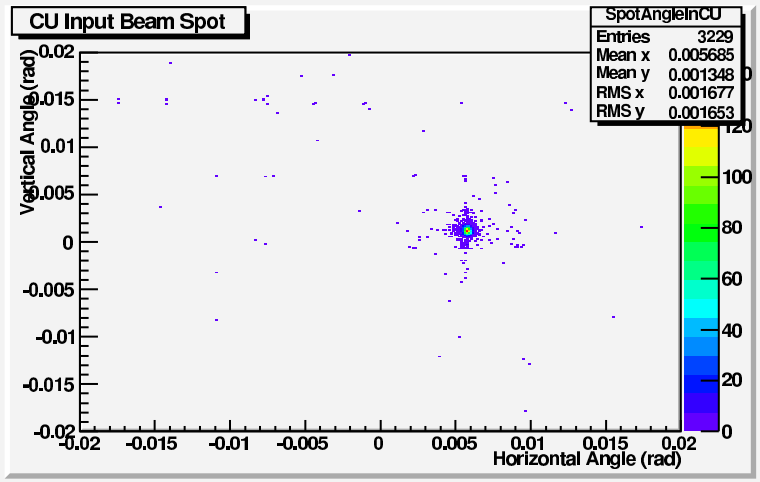

CU Input Horizontal coordinate
HorCoordInCU
Entries 3229
Mean 411.9
RMS 11.95
Position (mm)

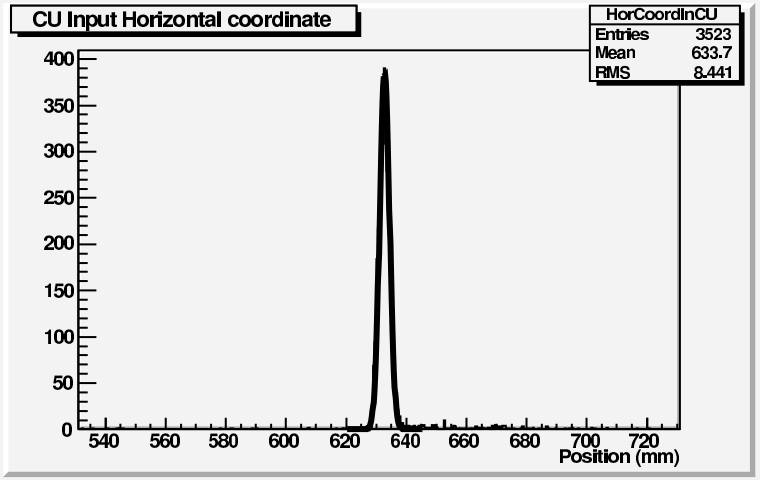

CU Input vertical coordinate
VertCoordInCU
Entries 3229
Mean 7.395
RMS 5.211
Position (mm)

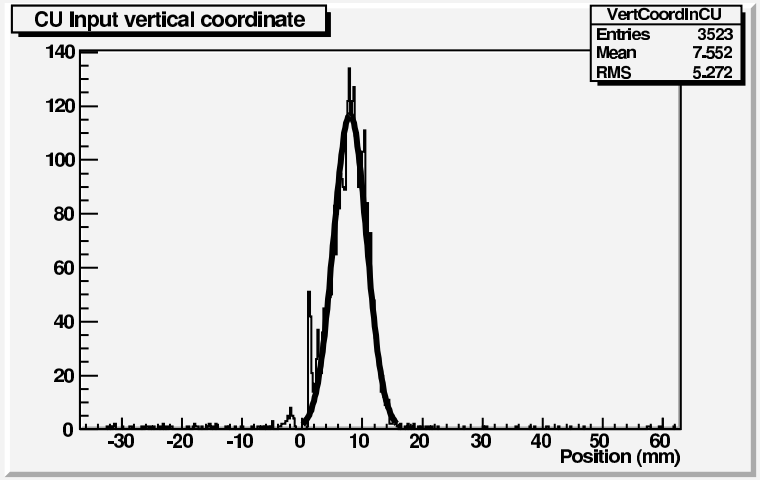

CU Input horizontal angle
HorAngleInCU
Entries 3229
Mean 0.001384
RMS 0.001947
Angle (rad)

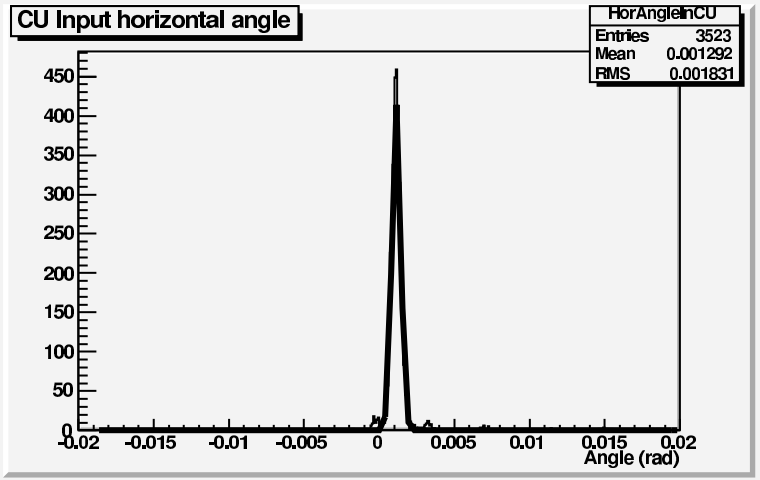

CU Input vertical angle
VertAngleInCU
Entries 3229
Mean 0.00571
RMS 0.001742
Angle (rad)

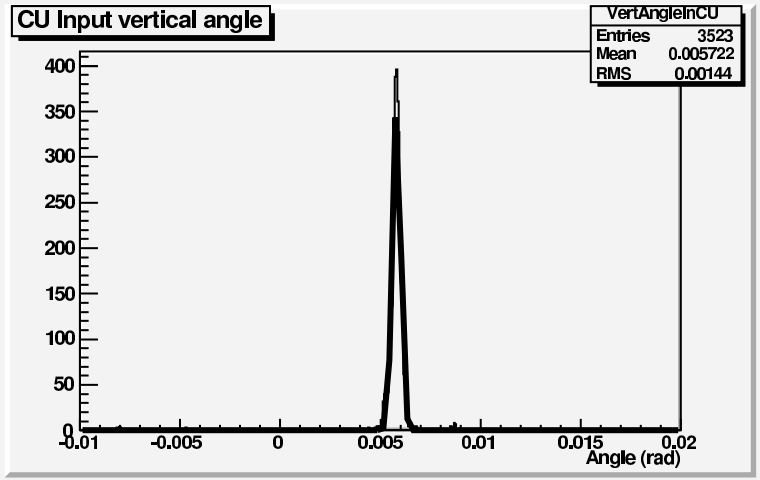

CU Input Beam Spot
SpotCoordInCU
Entries 3229
Mean x 410.8
Mean y 7.798
RMS x 6.053
RMS y 3.266
Vertical Position (mm)
Horizontal Position (mm)

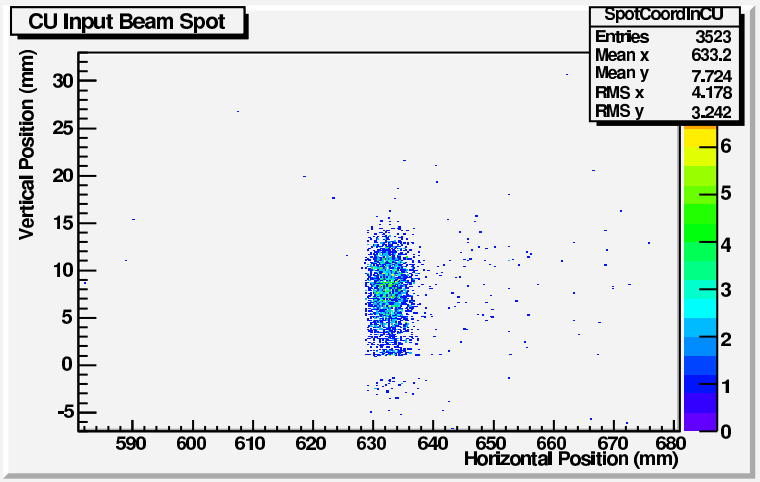

CU Input Beam Spot
SpotAngleInCU
Entries 3229
Mean x 0.005685
Mean y 0.001348
RMS x 0.001677
RMS y 0.001653
Vertical Angle (rad)
Horizontal Angle (rad)

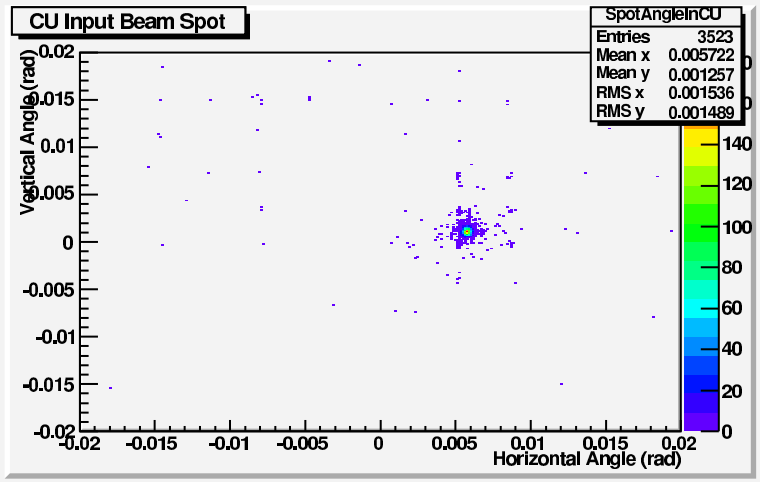

CU Input Horizontal coordinate
HorCoordInCU
Entries 3523
Mean 633.7
RMS 8.441
Position (mm)

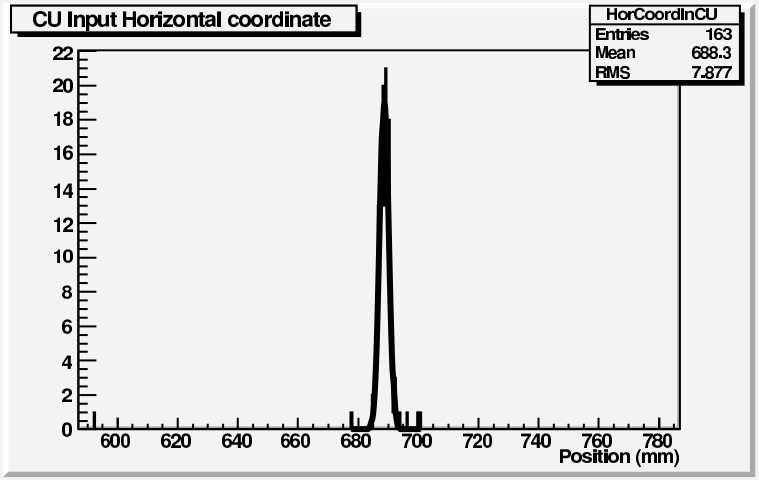

CU Input vertical coordinate
VertCoordInCU
Entries 3523
Mean 7.552
RMS 5.272
Position (mm)

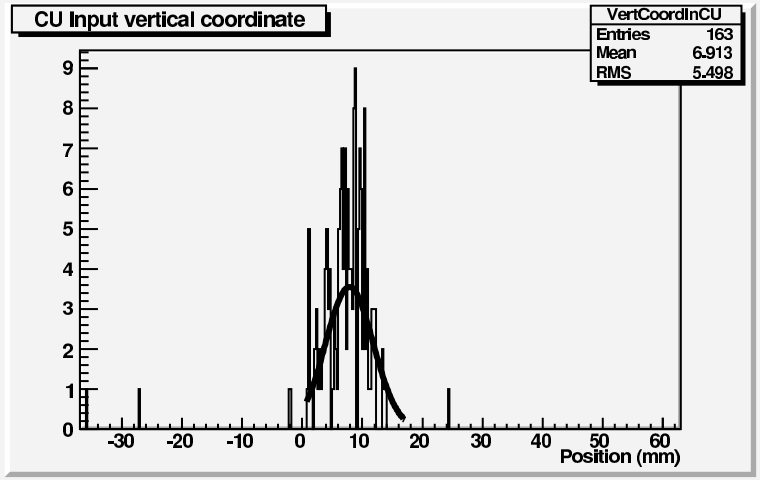

CU Input horizontal angle
HorAngleInCU
Entries 3523
Mean 0.001292
RMS 0.001831
Angle (rad)

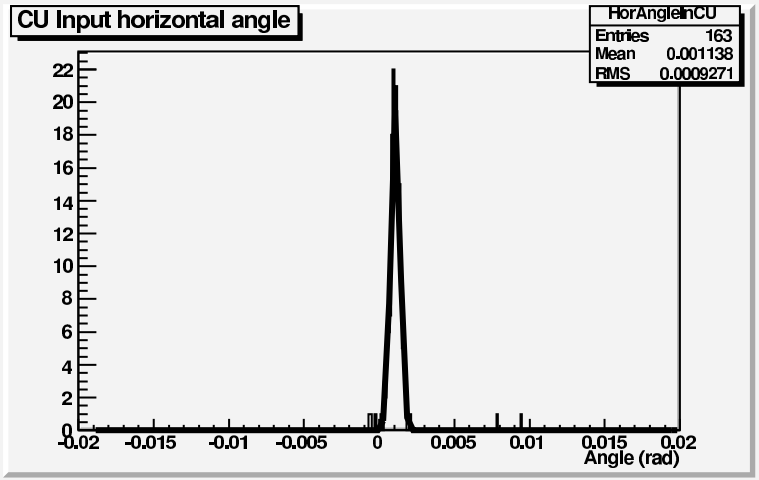

CU Input vertical angle
VertAngleInCU
Entries 3523
Mean 0.005722
RMS 0.00144
Angle (rad)

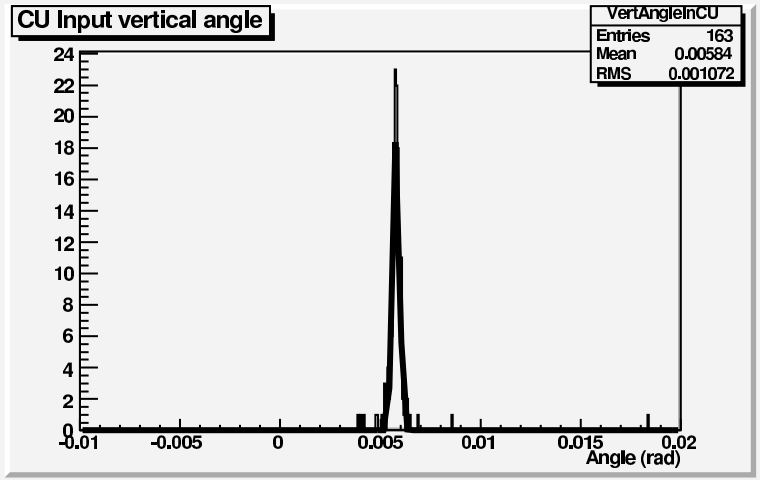

CU Input Beam Spot
SpotCoordInCU
Entries 3523
Mean x 633.2
Mean y 7.724
RMS x 4.178
RMS y 3.242
Vertical Position (mm)
Horizontal Position (mm)

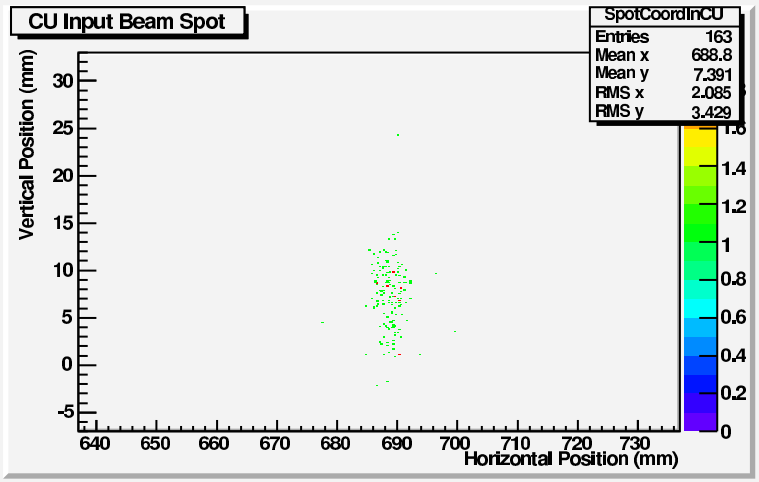

CU Input Beam Spot
SpotAngleInCU
Entries 3523
Mean x 0.005722
Mean y 0.001257
RMS x 0.001536
RMS y 0.001489
Vertical Angle (rad)
Horizontal Angle (rad)

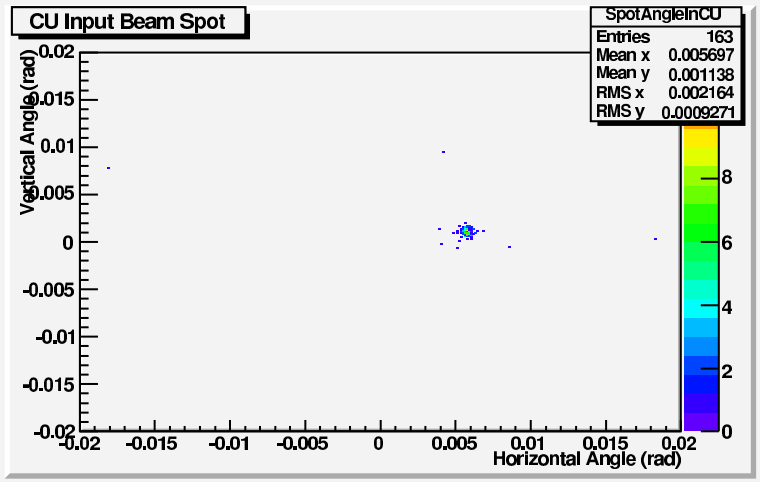

CU Input Horizontal coordinate
HorCoordInCU
Entries 163
Mean 688.3
RMS 7.877
Position (mm)

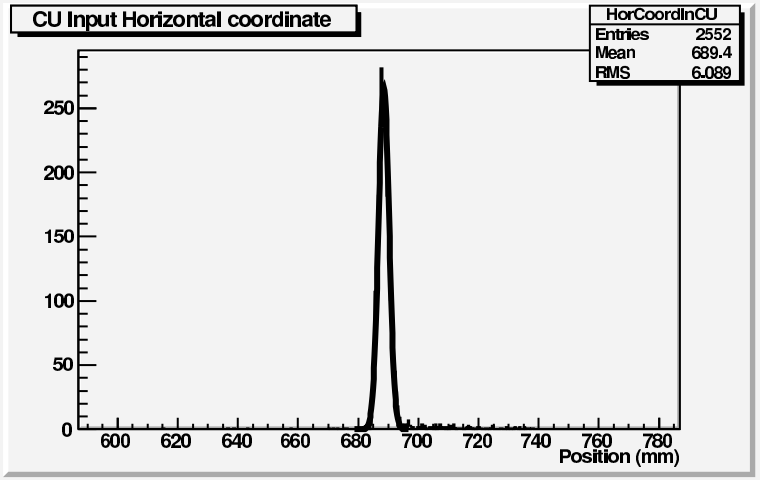

CU Input vertical coordinate
VertCoordInCU
Entries 163
Mean 6.913
RMS 5.498
Position (mm)

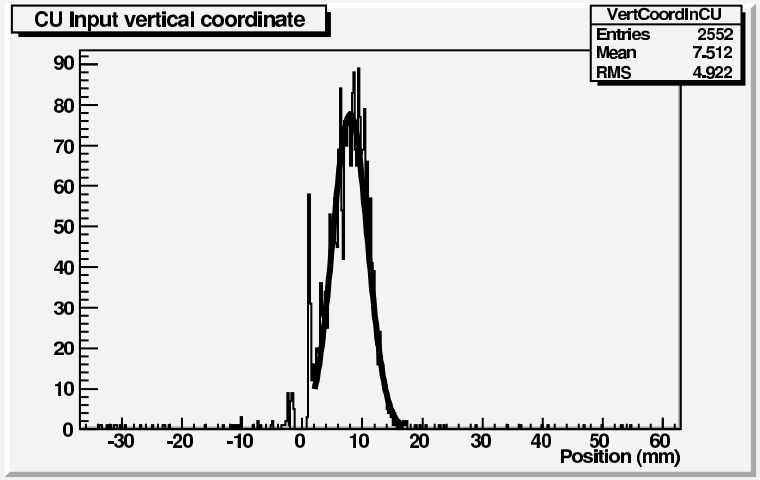

CU Input horizontal angle
HorAngleInCU
Entries 163
Mean 0.001138
RMS 0.0009271
Angle (rad)

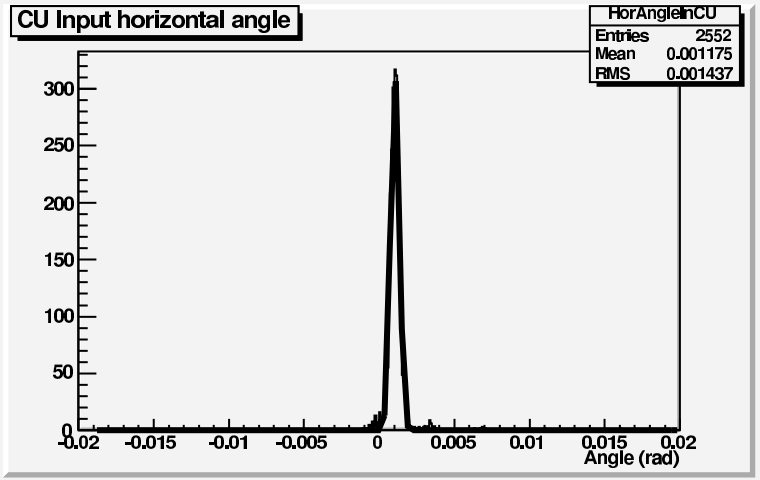

CU Input vertical angle
VertAngleInCU
Entries 163
Mean 0.00584
RMS 0.001072
Angle (rad)

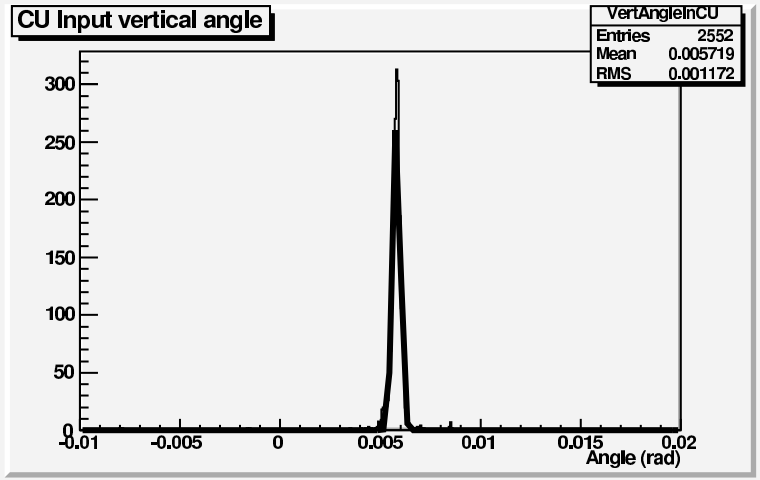

CU Input Beam Spot
SpotCoordInCU
Entries 163
Mean x 688.8
Mean y 7.391
RMS x 2.085
RMS y 3.429
Vertical Position (mm)
Horizontal Position (mm)

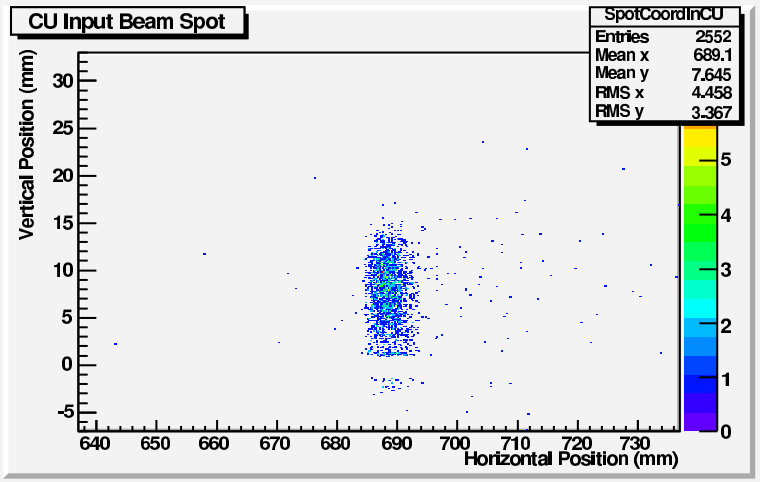

CU Input Beam Spot
SpotAngleInCU
Entries 163
Mean x 0.005697
Mean y 0.001138
RMS x 0.002164
RMS y 0.0009271
Vertical Angle (rad)
Horizontal Angle (rad)

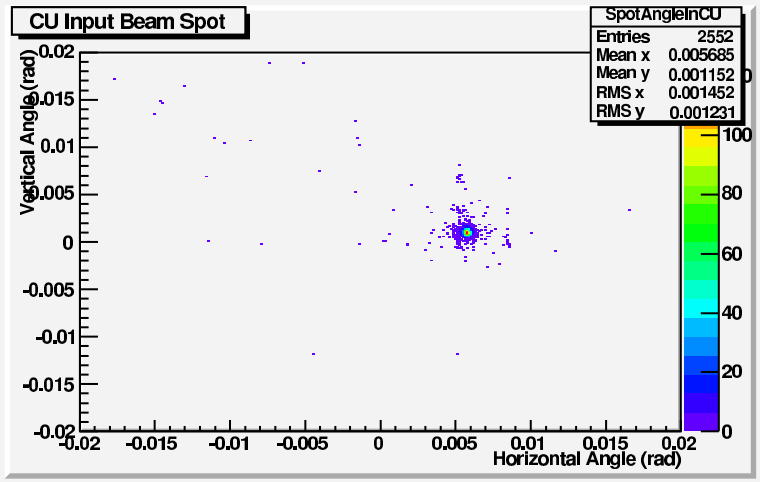

CU Input Horizontal coordinate
HorCoordInCU
Entries 2552
Mean 689.4
RMS 6.089
Position (mm)

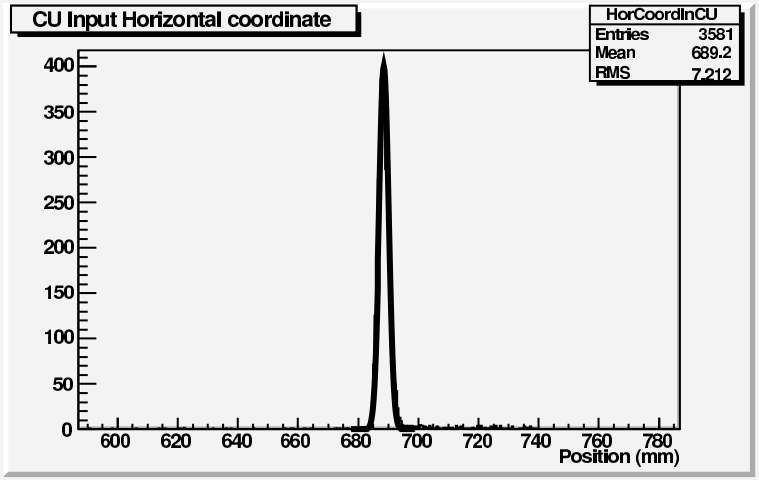

CU Input vertical coordinate
VertCoordInCU
Entries 2552
Mean 7.512
RMS 4.922
Position (mm)

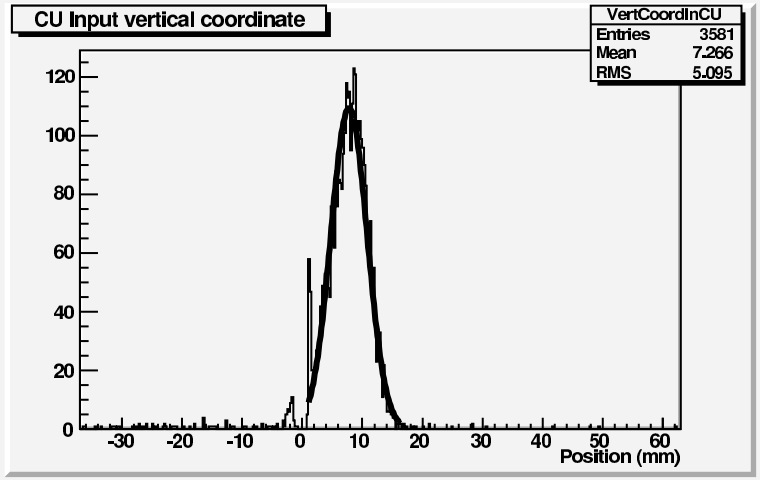

CU Input horizontal angle
HorAngleInCU
Entries 2552
Mean 0.001175
RMS 0.001437
Angle (rad)

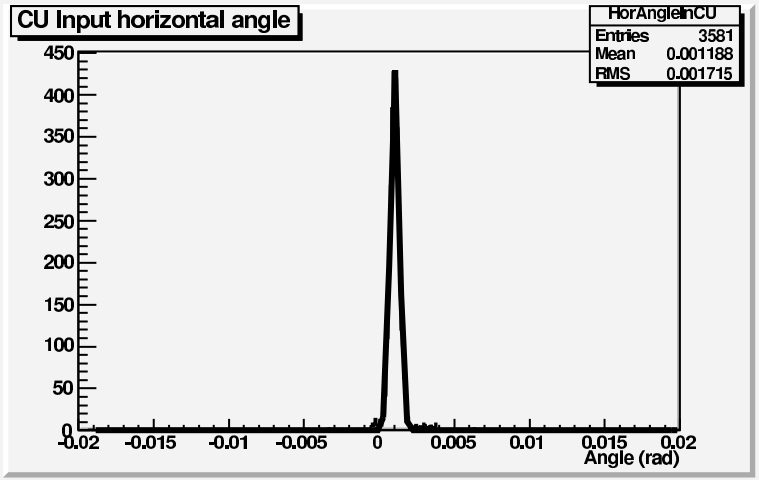

CU Input vertical angle
VertAngleInCU
Entries 2552
Mean 0.005719
RMS 0.001172
Angle (rad)

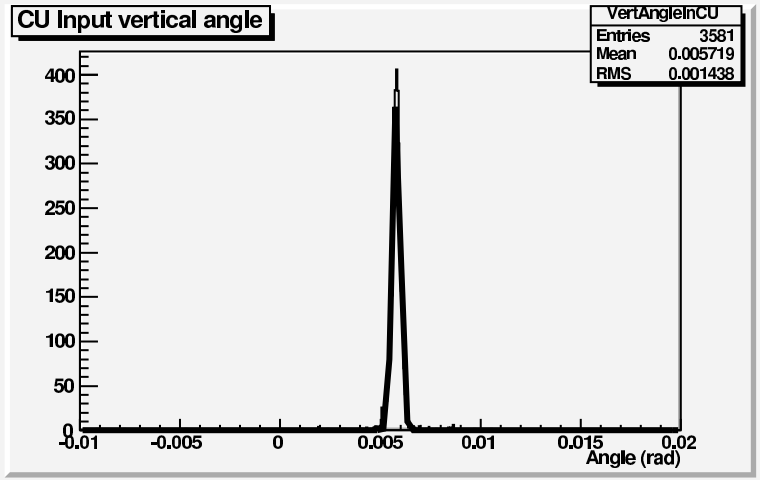

CU Input Beam Spot
SpotCoordInCU
Entries 2552
Mean x 689.1
Mean y 7.645
RMS x 4.458
RMS y 3.367
Vertical Position (mm)
Horizontal Position (mm)

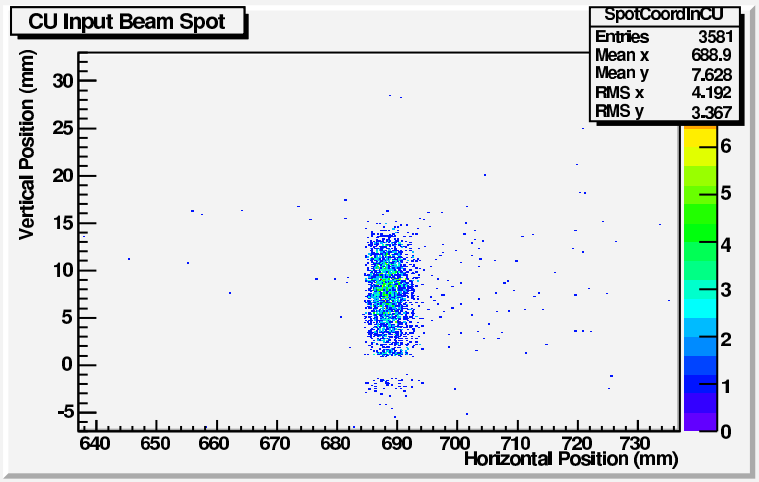

CU Input Beam Spot
SpotAngleInCU
Entries 2552
Mean x 0.005685
Mean y 0.001152
RMS x 0.001452
RMS y 0.001231
Vertical Angle (rad)
Horizontal Angle (rad)

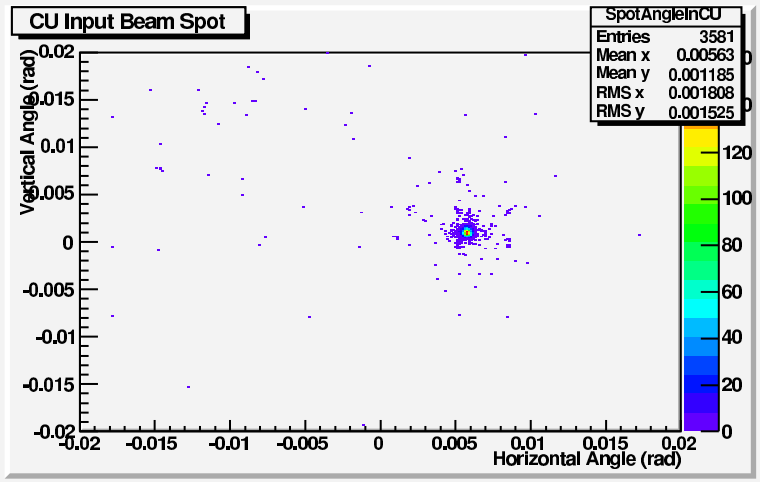

CU Input Horizontal coordinate
HorCoordInCU
Entries 3581
Mean 689.2
RMS 7.212
Position (mm)

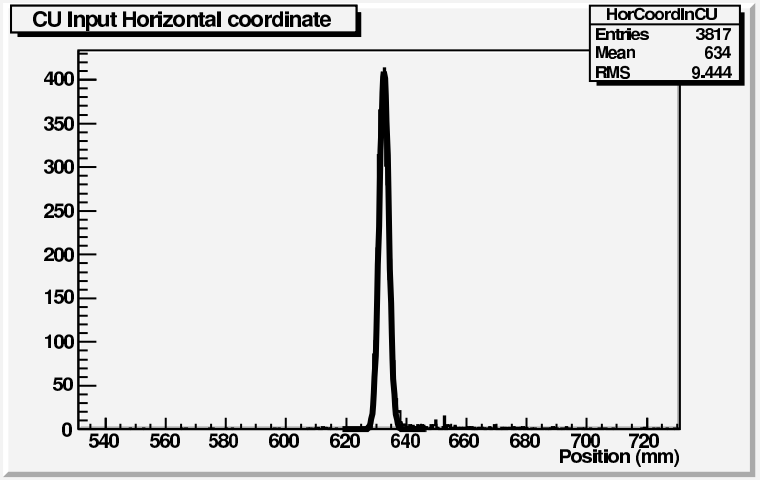

CU Input vertical coordinate
VertCoordInCU
Entries 3581
Mean 7.266
RMS 5.095
Position (mm)

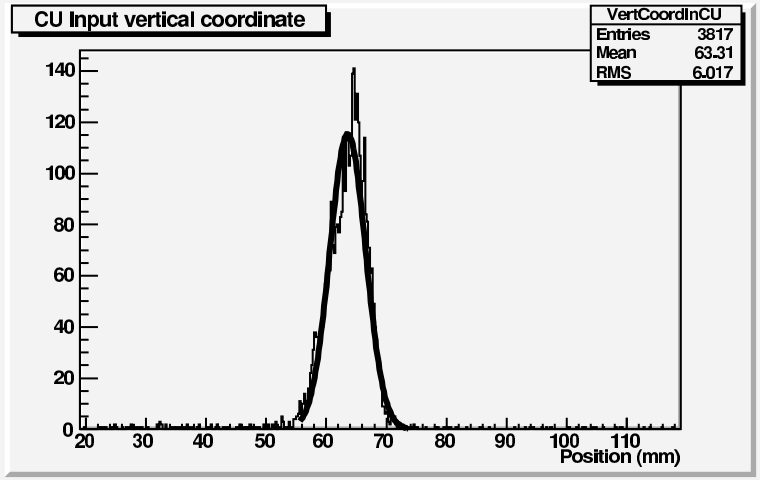

CU Input horizontal angle
HorAngleInCU
Entries 3581
Mean 0.001188
RMS 0.001715
Angle (rad)

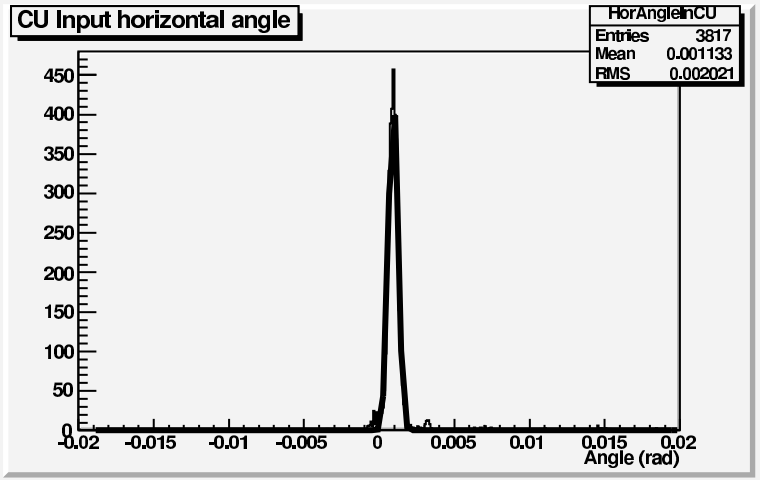

CU Input vertical angle
VertAngleInCU
Entries 3581
Mean 0.005719
RMS 0.001438
Angle (rad)

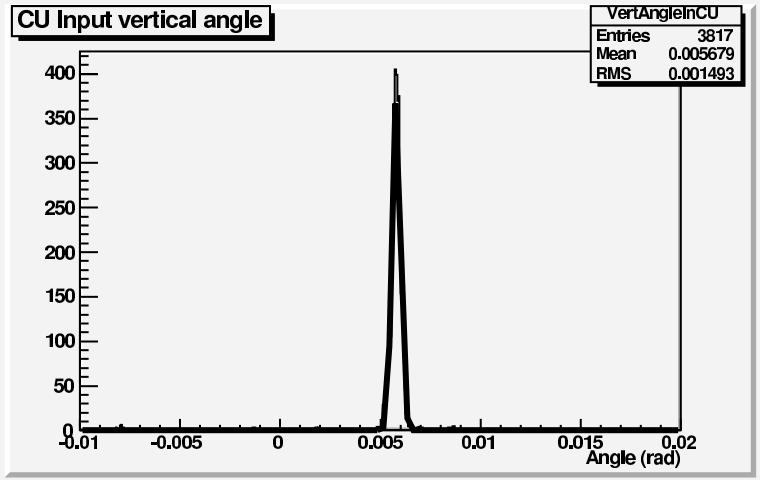

CU Input Beam Spot
SpotCoordInCU
Entries 3581
Mean x 688.9
Mean y 7.628
RMS x 4.192
RMS y 3.367
Vertical Position (mm)
Horizontal Position (mm)

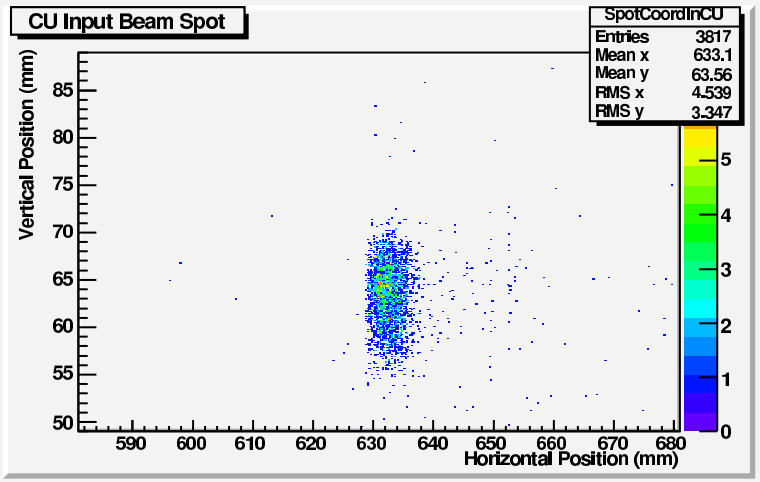

CU Input Beam Spot
SpotAngleInCU
Entries 3581
Mean x 0.00563
Mean y 0.001185
RMS x 0.001808
RMS y 0.001525
Vertical Angle (rad)
Horizontal Angle (rad)

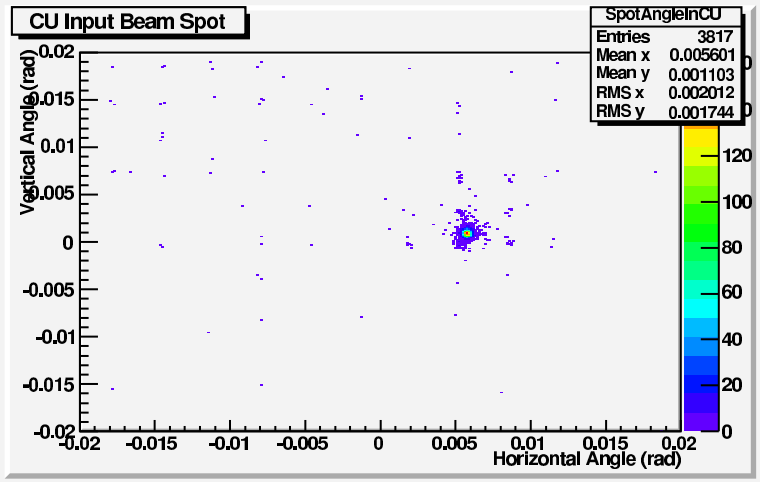

CU Input Horizontal coordinate
HorCoordInCU
Entries 3817
Mean 634
RMS 9.444
Position (mm)

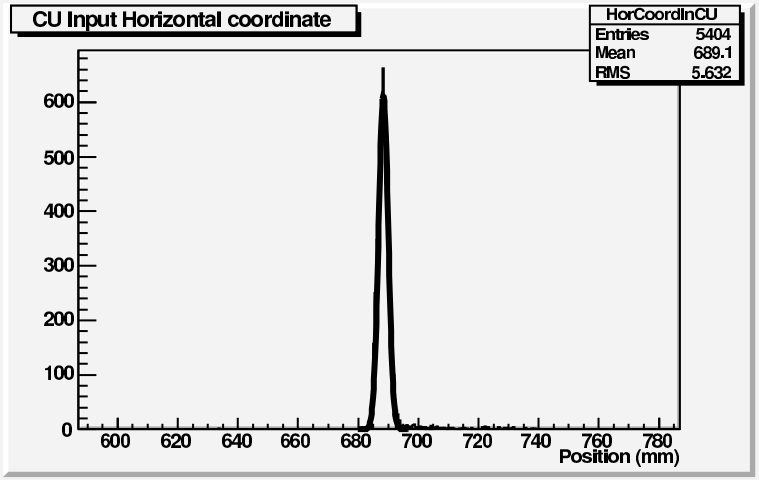

CU Input vertical coordinate
VertCoordInCU
Entries 3817
Mean 63.31
RMS 6.017
Position (mm)

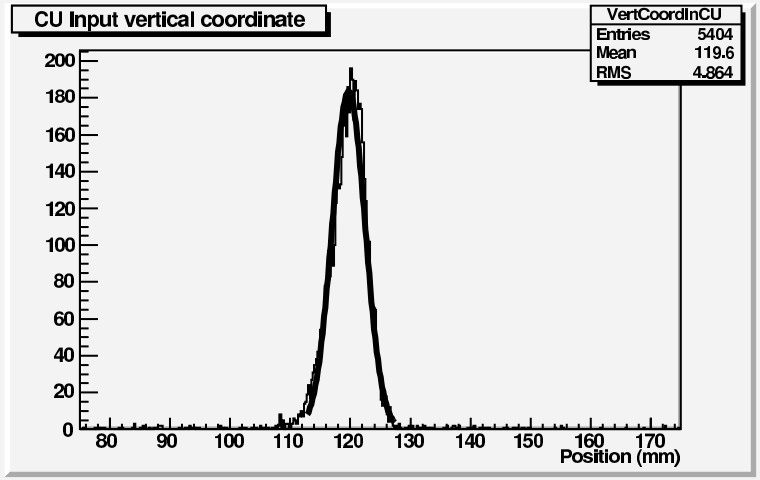

CU Input horizontal angle
HorAngleInCU
Entries 3817
Mean 0.001133
RMS 0.002021
Angle (rad)

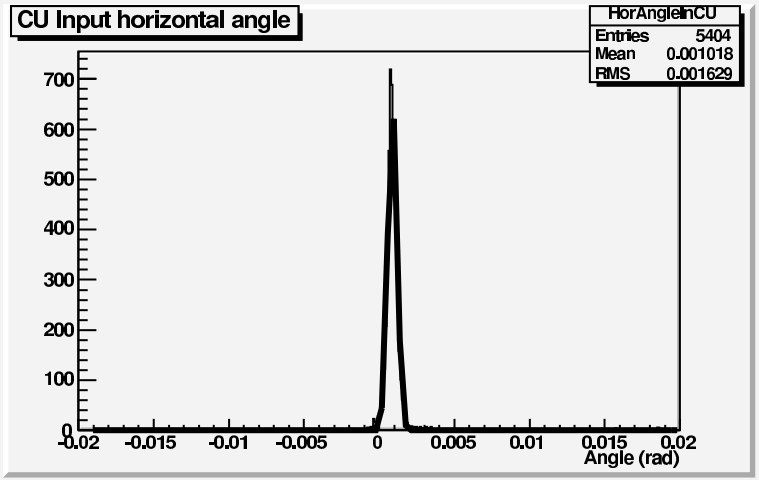

CU Input vertical angle
VertAngleInCU
Entries 3817
Mean 0.005679
RMS 0.001493
Angle (rad)

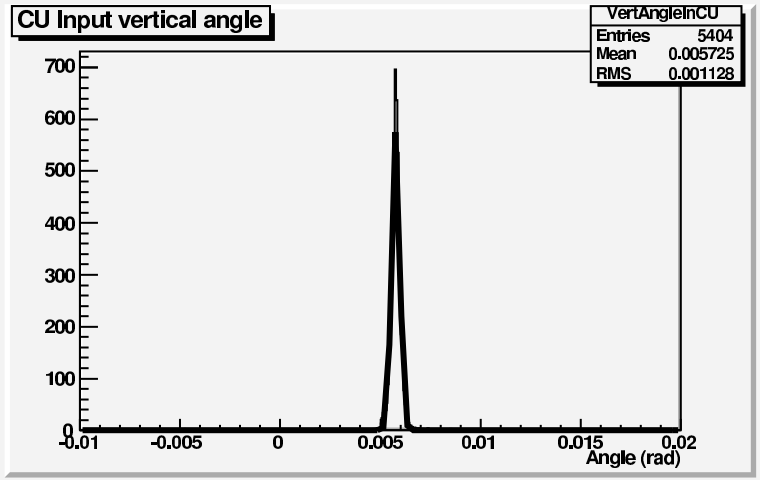

CU Input Beam Spot
SpotCoordInCU
Entries 3817
Mean x 633.1
Mean y 63.56
RMS x 4.539
RMS y 3.347
Vertical Position (mm)
Horizontal Position (mm)

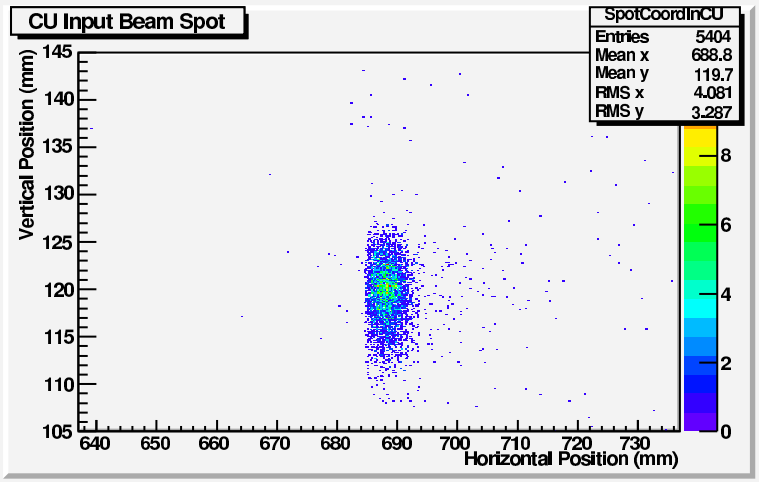

CU Input Beam Spot
SpotAngleInCU
Entries 3817
Mean x 0.005601
Mean y 0.001103
RMS x 0.002012
RMS y 0.001744
Vertical Angle (rad)
Horizontal Angle (rad)

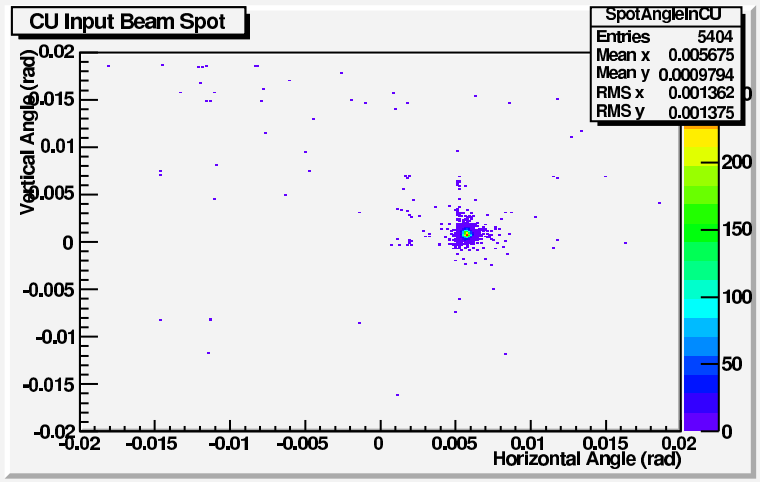

CU Input Horizontal coordinate
HorCoordInCU
Entries 5404
Mean 689.1
RMS 5.632
Position (mm)

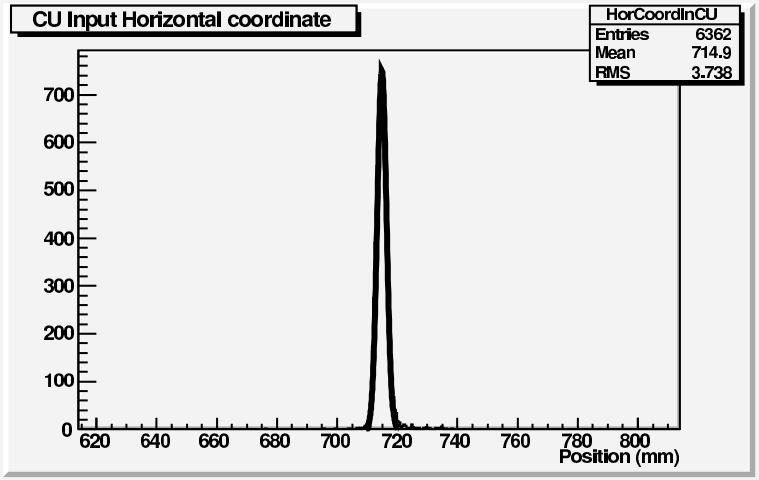

CU Input vertical coordinate
VertCoordInCU
Entries 5404
Mean 119.6
RMS 4.864
Position (mm)

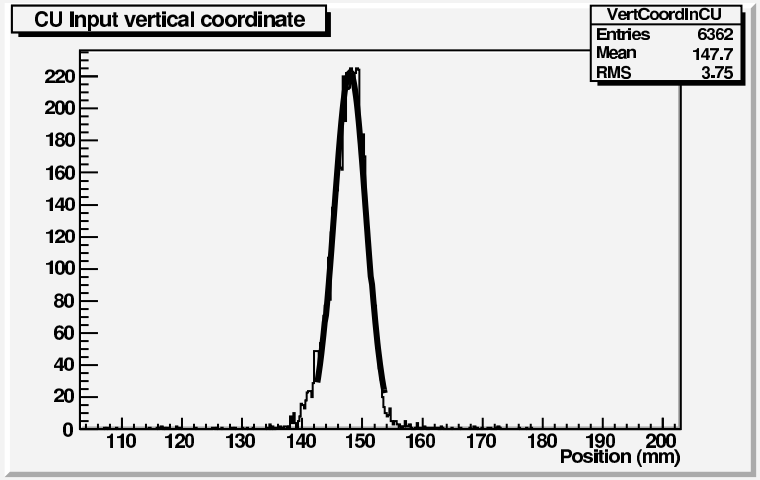

CU Input horizontal angle
HorAngleInCU
Entries 5404
Mean 0.001018
RMS 0.001629
Angle (rad)

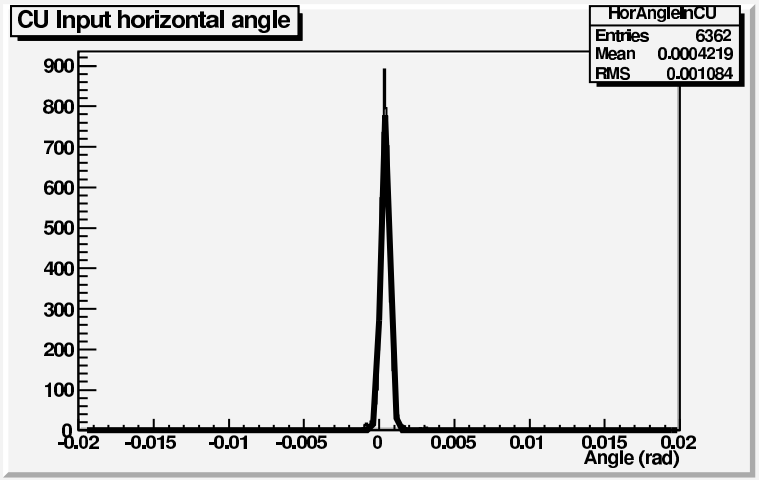

CU Input vertical angle
VertAngleInCU
Entries 5404
Mean 0.005725
RMS 0.001128
Angle (rad)

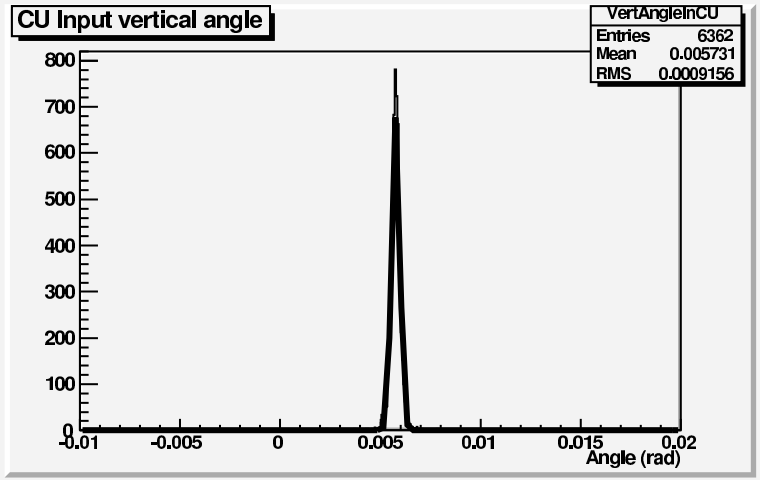

CU Input Beam Spot
SpotCoordInCU
Entries 5404
Mean x 688.8
Mean y 119.7
RMS x 4.081
RMS y 3.287
Vertical Position (mm)
Horizontal Position (mm)

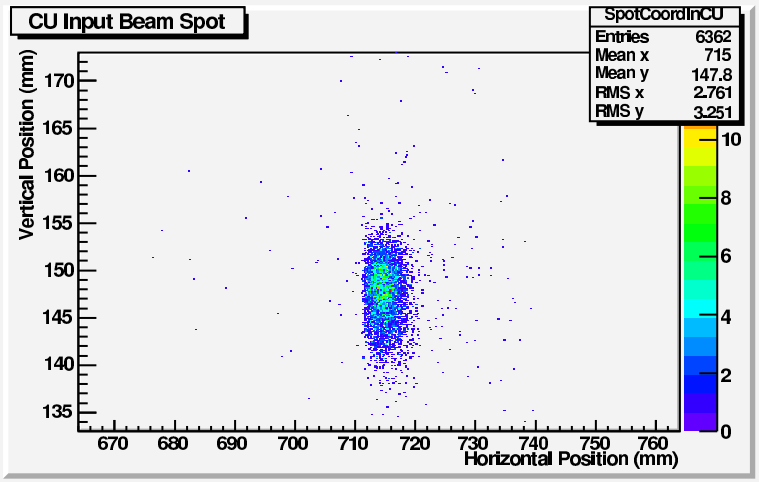

CU Input Beam Spot
SpotAngleInCU
Entries 5404
Mean x 0.005675
Mean y 0.0009794
RMS x 0.001362
RMS y 0.001375
Vertical Angle (rad)
Horizontal Angle (rad)

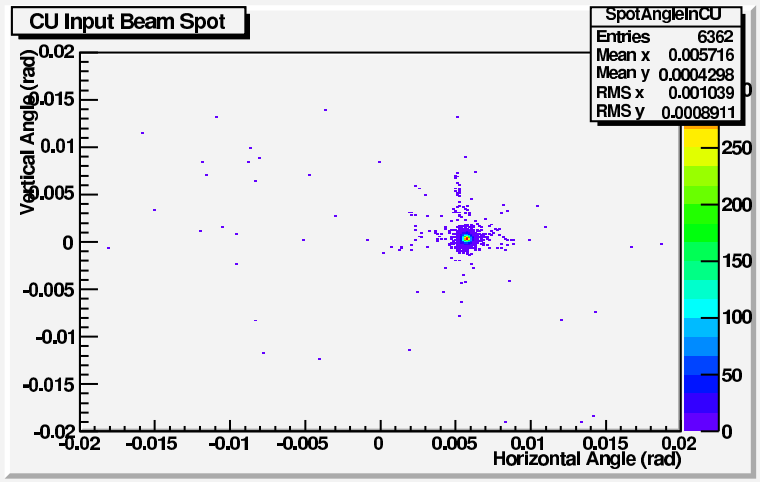

CU Input Horizontal coordinate
HorCoordInCU
Entries 6362
Mean 714.9
RMS 3.738
Position (mm)

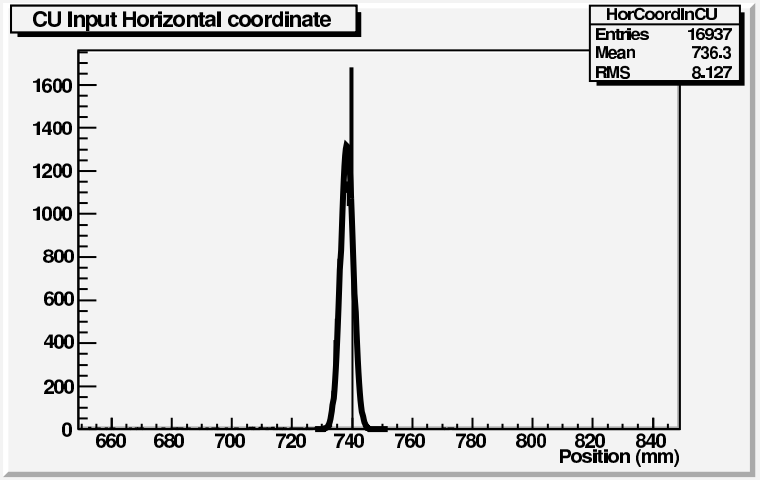

CU Input vertical coordinate
VertCoordInCU
Entries 6362
Mean 147.7
RMS 3.75
Position (mm)

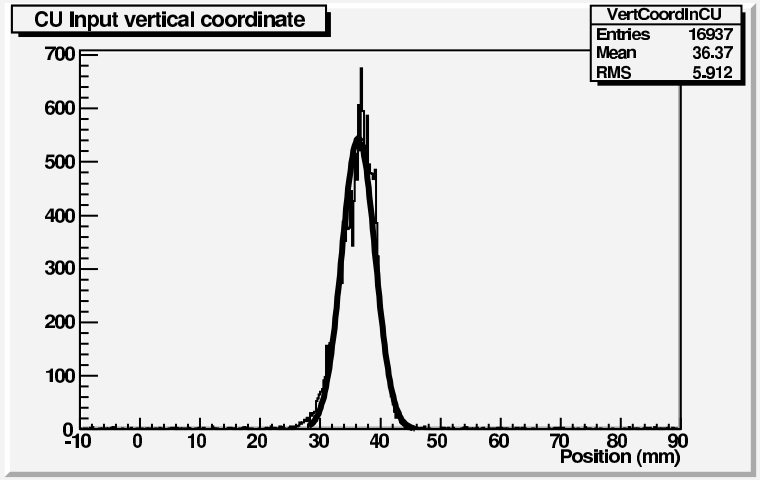

CU Input horizontal angle
HorAngleInCU
Entries 6362
Mean 0.0004219
RMS 0.001084
Angle (rad)

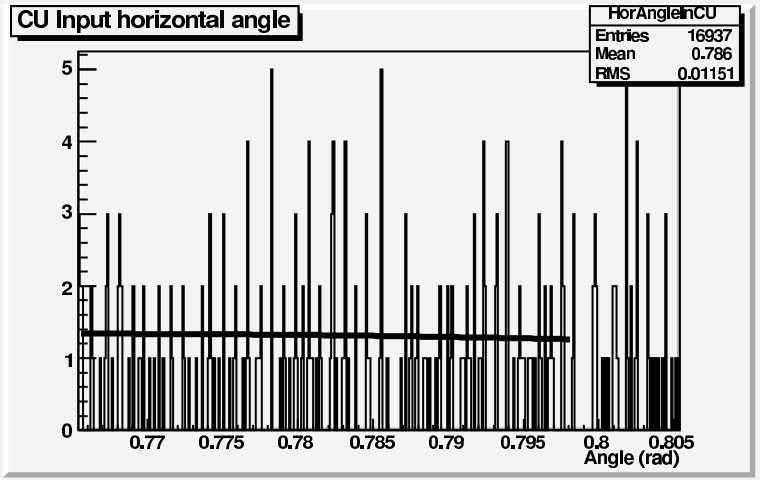

CU Input vertical angle
VertAngleInCU
Entries 6362
Mean 0.005731
RMS 0.0009156
Angle (rad)

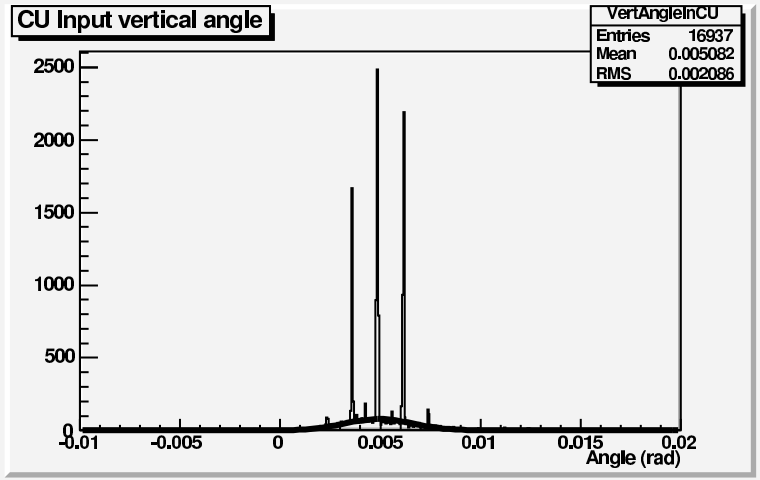

CU Input Beam Spot
SpotCoordInCU
Entries 6362
Mean x 715
Mean y 147.8
RMS x 2.761
RMS y 3.251
Vertical Position (mm)
Horizontal Position (mm)

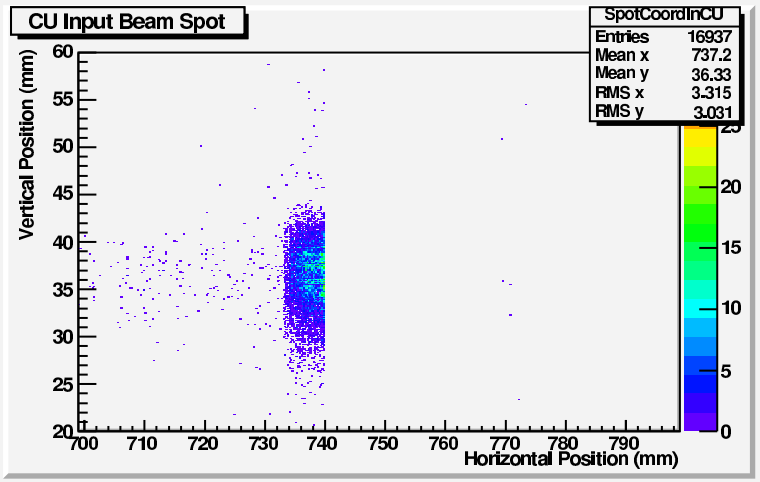

CU Input Beam Spot
SpotAngleInCU
Entries 6362
Mean x 0.005716
Mean y 0.0004298
RMS x 0.001039
RMS y 0.0008911
Vertical Angle (rad)
Horizontal Angle (rad)

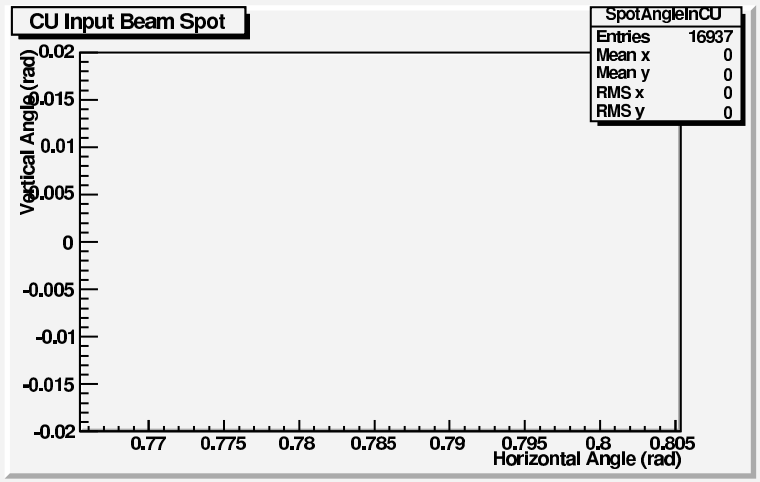

CU Input Horizontal coordinate
HorCoordInCU
Entries 16937
Mean 736.3
RMS 8.127
Position (mm)

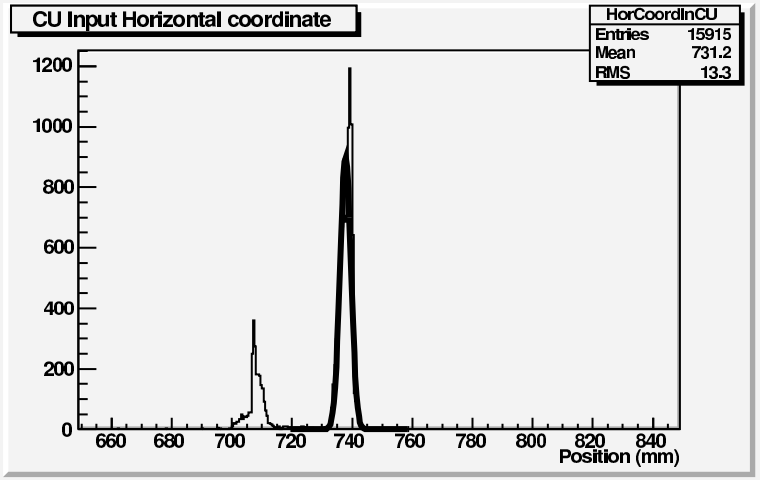

CU Input vertical coordinate
VertCoordInCU
Entries 16937
Mean 36.37
RMS 5.912
Position (mm)

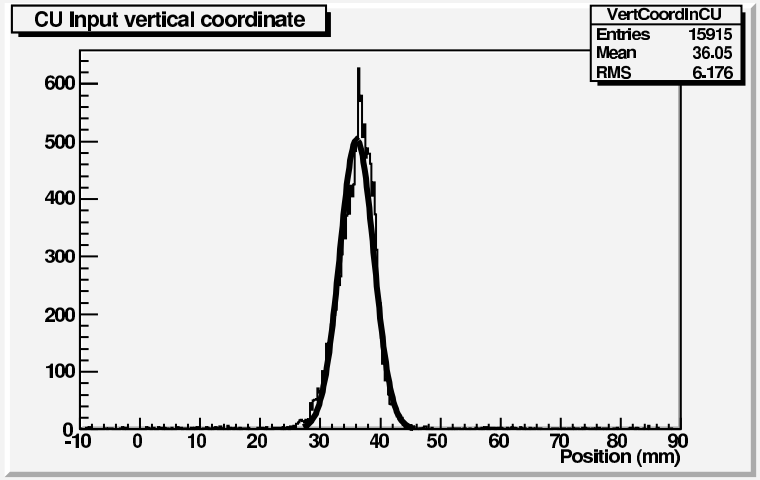

CU Input horizontal angle
HorAngleInCU
Entries 16937
Mean 0.786
RMS 0.01151
Angle (rad)

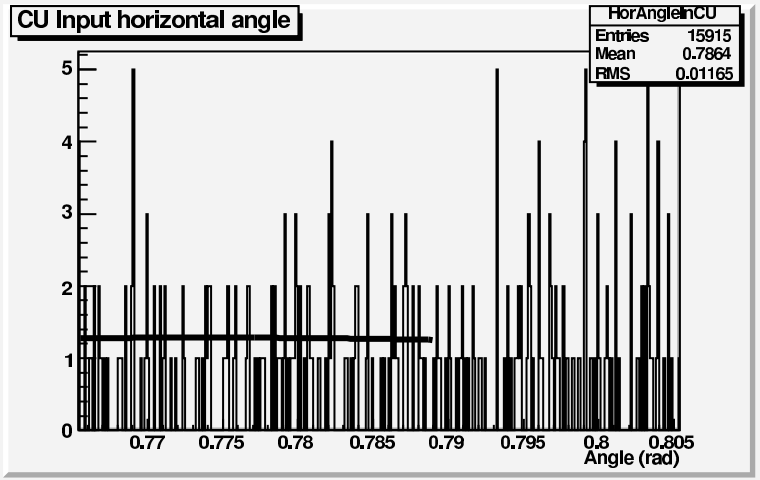

CU Input vertical angle
VertAngleInCU
Entries 16937
Mean 0.005082
RMS 0.002086
Angle (rad)

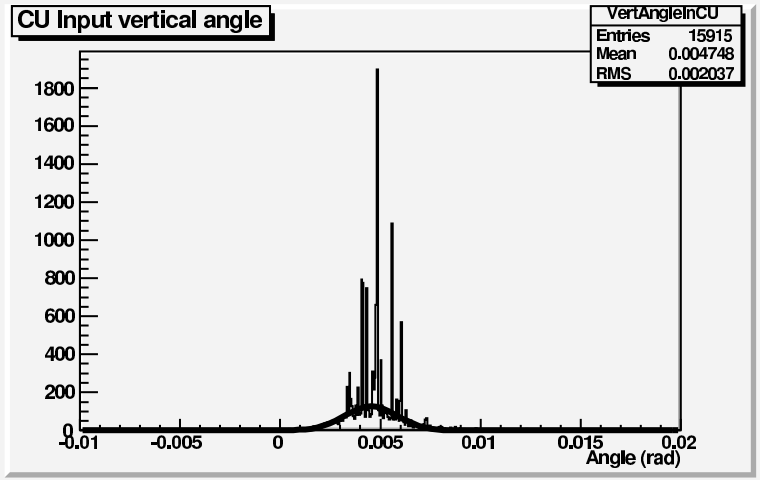

CU Input Beam Spot
SpotCoordInCU
Entries 16937
Mean x 737.2
Mean y 36.33
RMS x 3.315
RMS y 3.031
Vertical Position (mm)
Horizontal Position (mm)

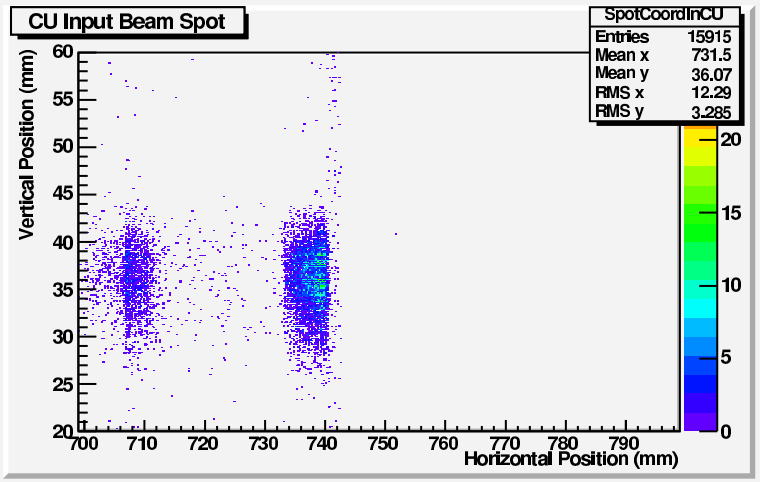

CU Input Beam Spot
SpotAngleInCU
Entries 16937
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

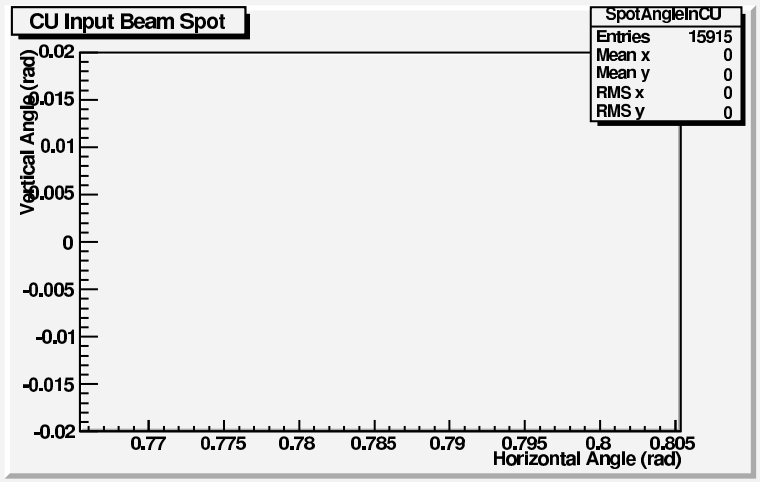

CU Input Horizontal coordinate
HorCoordInCU
Entries 15915
Mean 731.2
RMS 13.3
Position (mm)

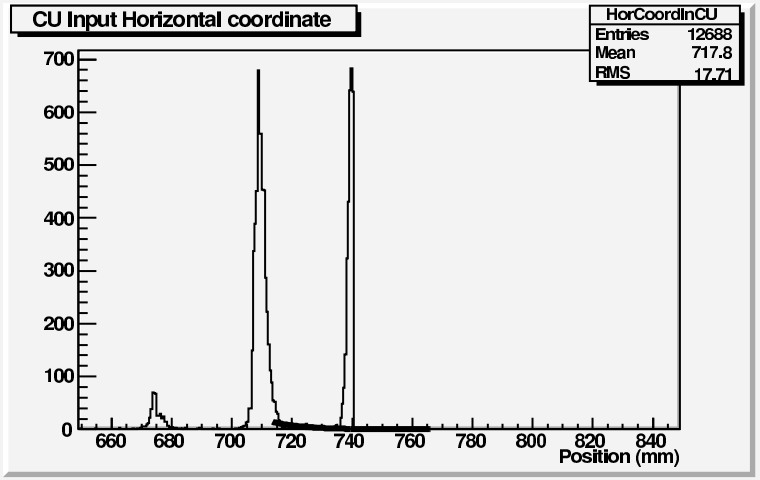

CU Input vertical coordinate
VertCoordInCU
Entries 15915
Mean 36.05
RMS 6.176
Position (mm)

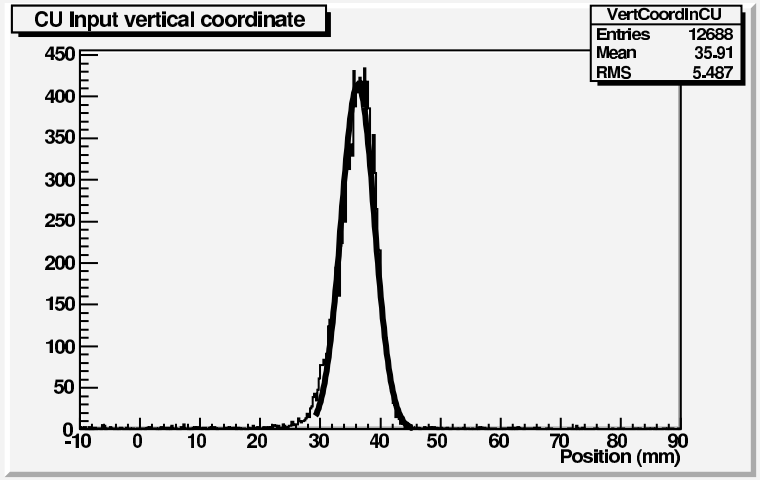

CU Input horizontal angle
HorAngleInCU
Entries 15915
Mean 0.7864
RMS 0.01165
Angle (rad)

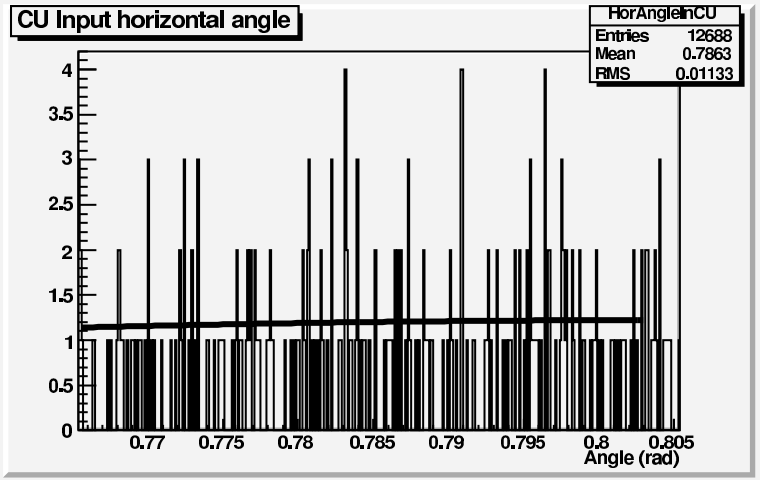

CU Input vertical angle
VertAngleInCU
Entries 15915
Mean 0.004748
RMS 0.002037
Angle (rad)

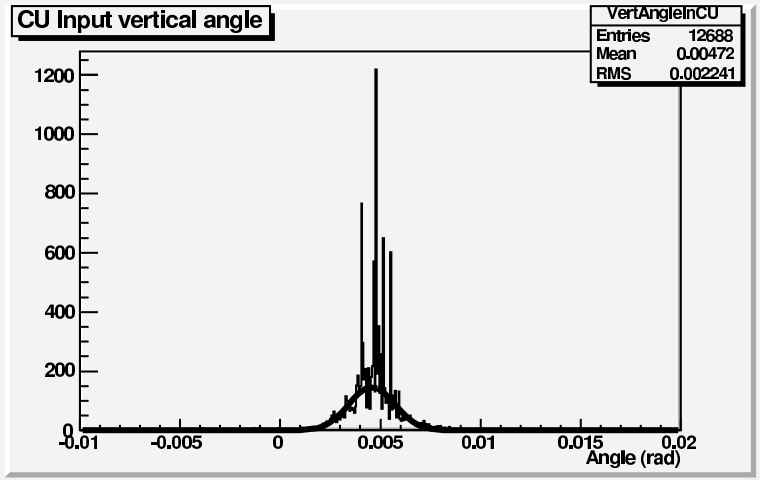

CU Input Beam Spot
SpotCoordInCU
Entries 15915
Mean x 731.5
Mean y 36.07
RMS x 12.29
RMS y 3.285
Vertical Position (mm)
Horizontal Position (mm)

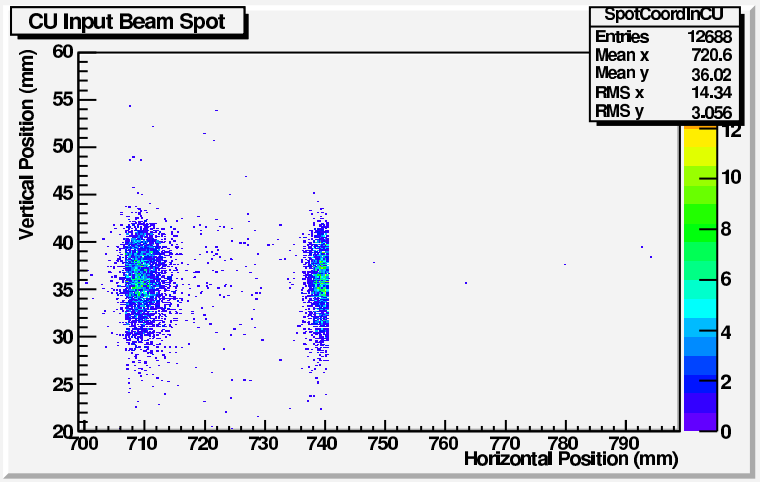

CU Input Beam Spot
SpotAngleInCU
Entries 15915
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

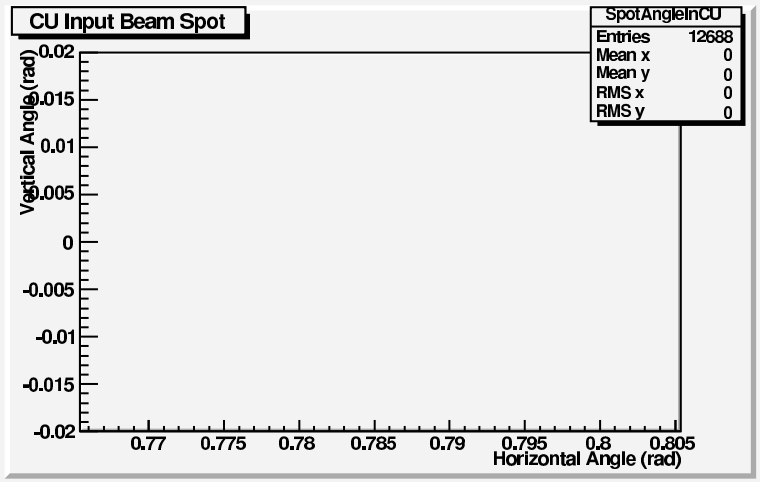

CU Input Horizontal coordinate
HorCoordInCU
Entries 12688
Mean 717.8
RMS 17.71
Position (mm)

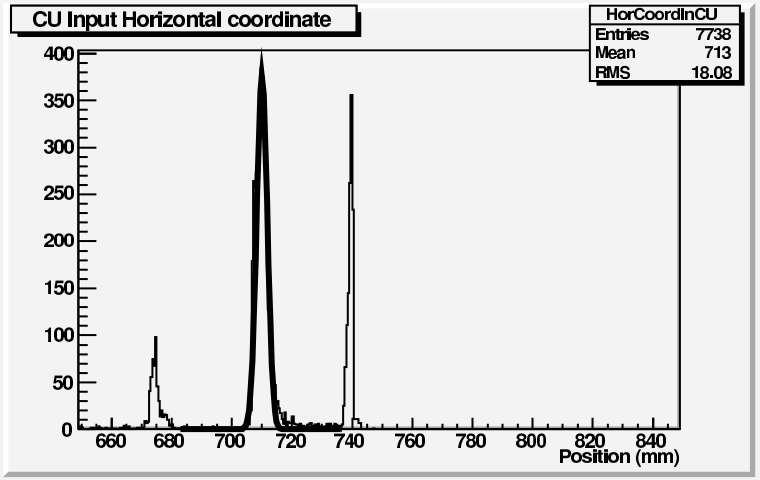

CU Input vertical coordinate
VertCoordInCU
Entries 12688
Mean 35.91
RMS 5.487
Position (mm)

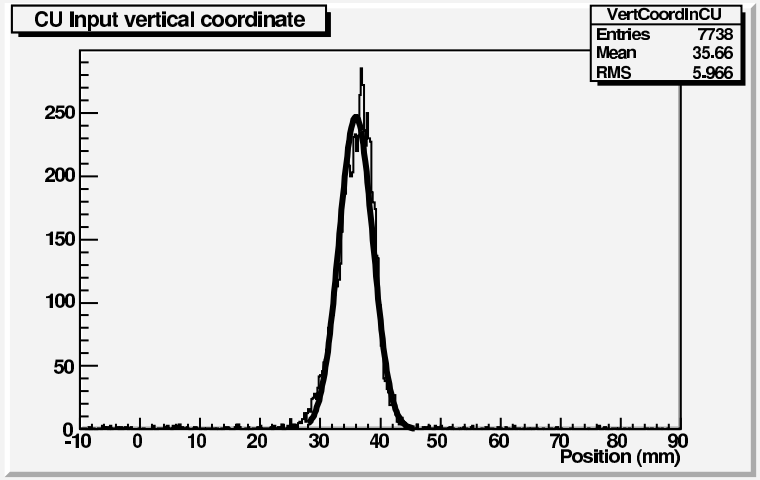

CU Input horizontal angle
HorAngleInCU
Entries 12688
Mean 0.7863
RMS 0.01133
Angle (rad)

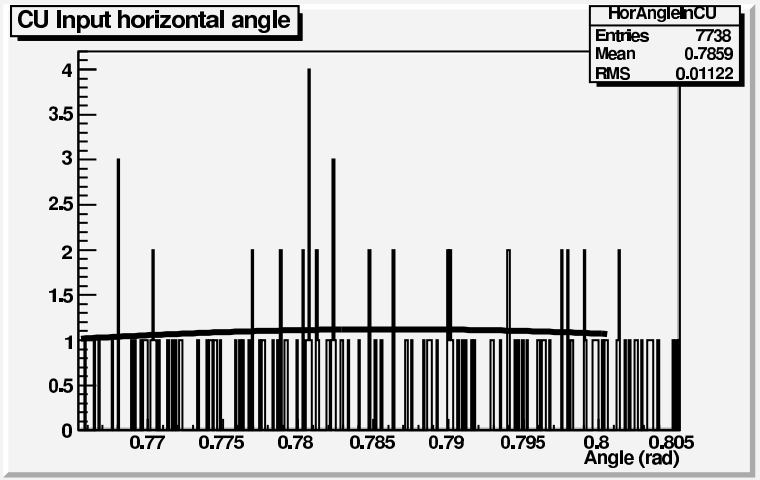

CU Input vertical angle
VertAngleInCU
Entries 12688
Mean 0.00472
RMS 0.002241
Angle (rad)

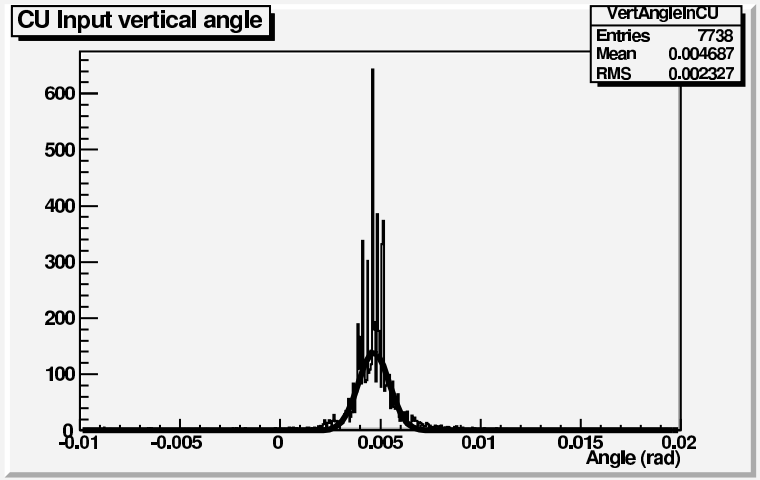

CU Input Beam Spot
SpotCoordInCU
Entries 12688
Mean x 720.6
Mean y 36.02
RMS x 14.34
RMS y 3.056
Vertical Position (mm)
Horizontal Position (mm)

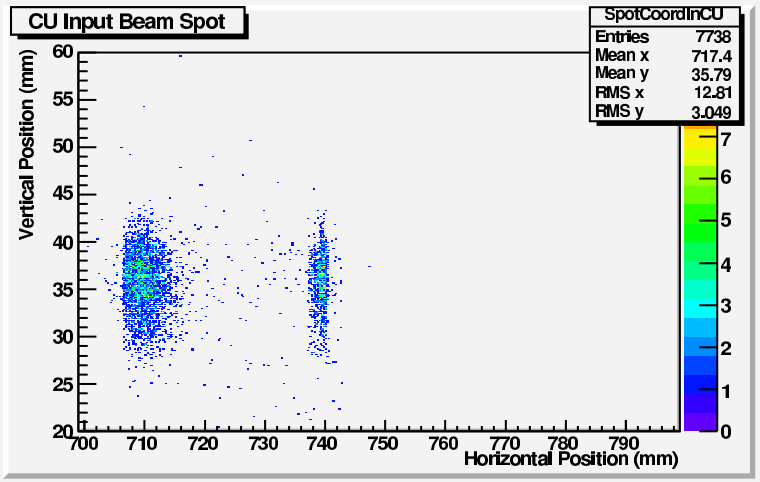

CU Input Beam Spot
SpotAngleInCU
Entries 12688
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

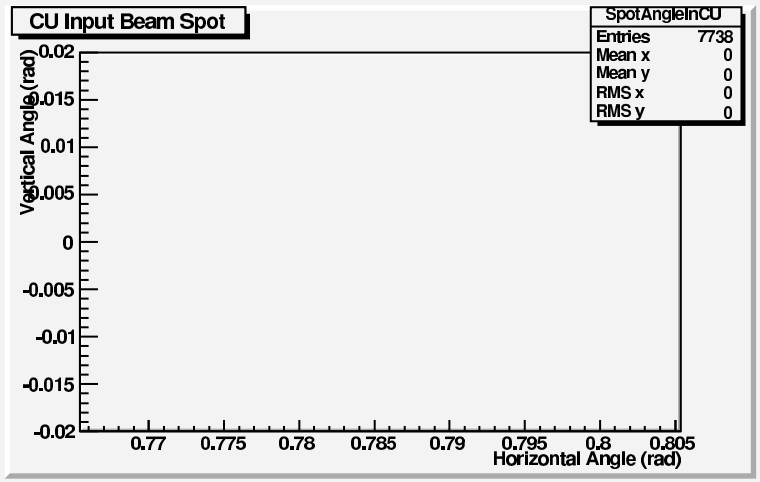

CU Input Horizontal coordinate
HorCoordInCU
Entries 7738
Mean 713
RMS 18.08
Position (mm)

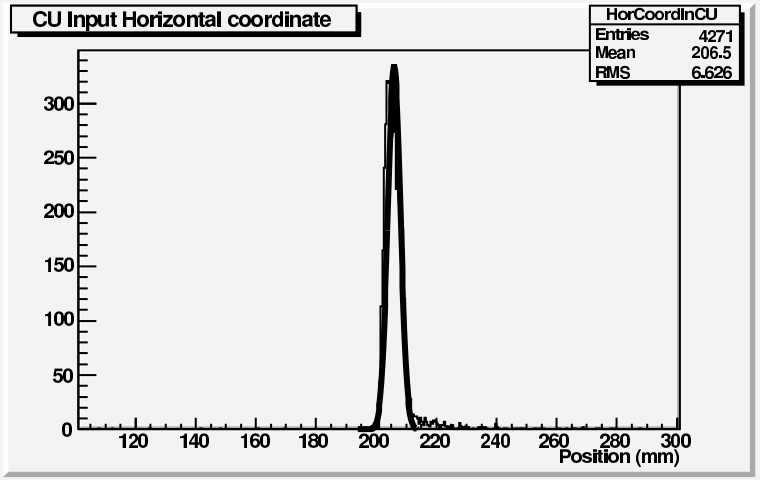

CU Input vertical coordinate
VertCoordInCU
Entries 7738
Mean 35.66
RMS 5.966
Position (mm)

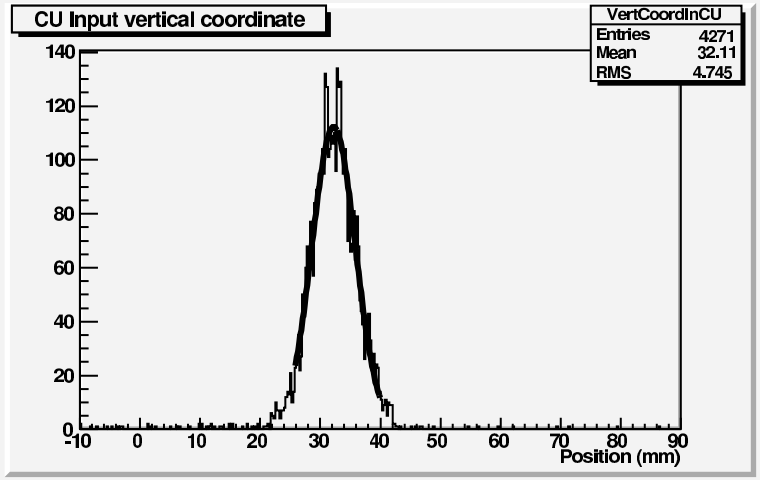

CU Input horizontal angle
HorAngleInCU
Entries 7738
Mean 0.7859
RMS 0.01122
Angle (rad)

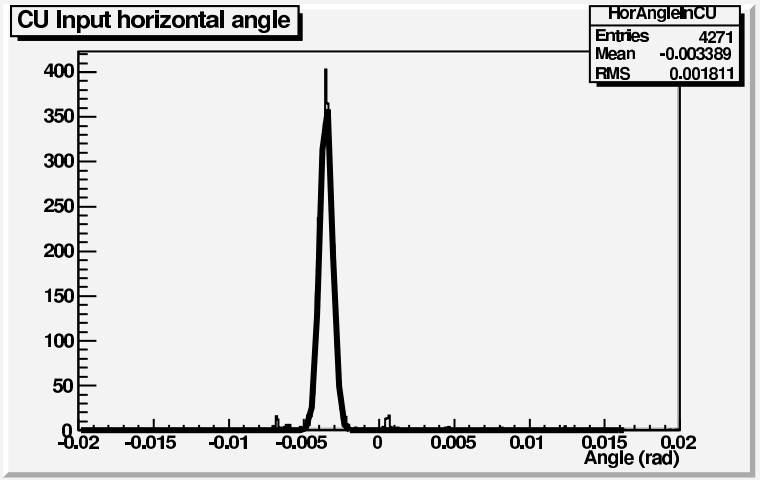

CU Input vertical angle
VertAngleInCU
Entries 7738
Mean 0.004687
RMS 0.002327
Angle (rad)

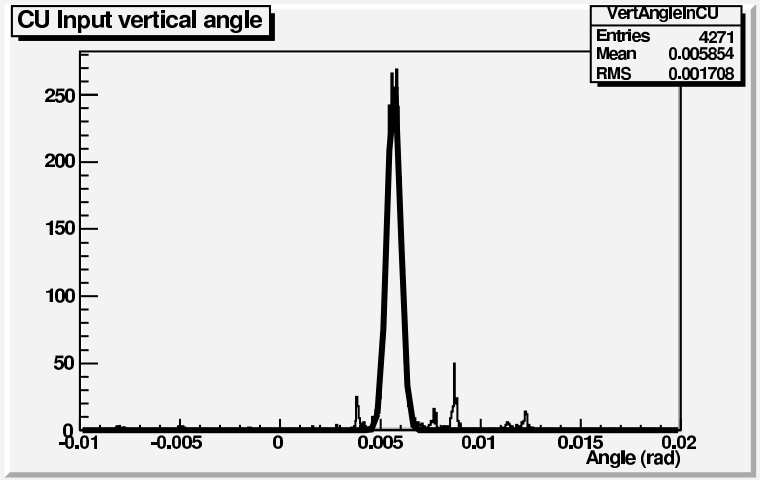

CU Input Beam Spot
SpotCoordInCU
Entries 7738
Mean x 717.4
Mean y 35.79
RMS x 12.81
RMS y 3.049
Vertical Position (mm)
Horizontal Position (mm)

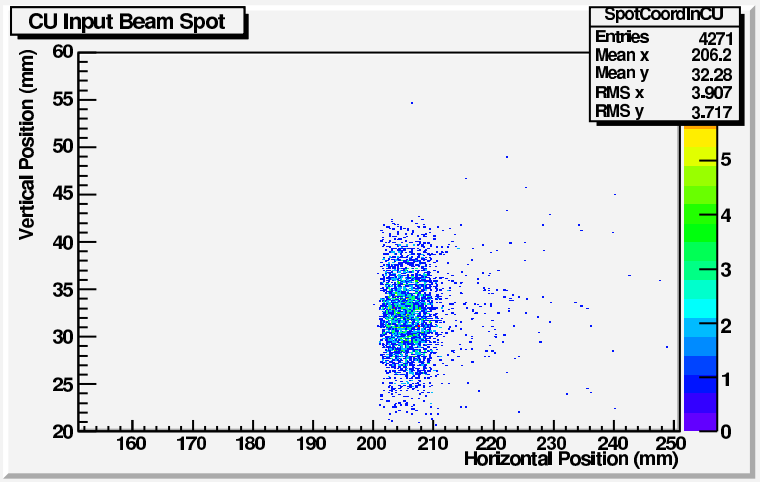

CU Input Beam Spot
SpotAngleInCU
Entries 7738
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

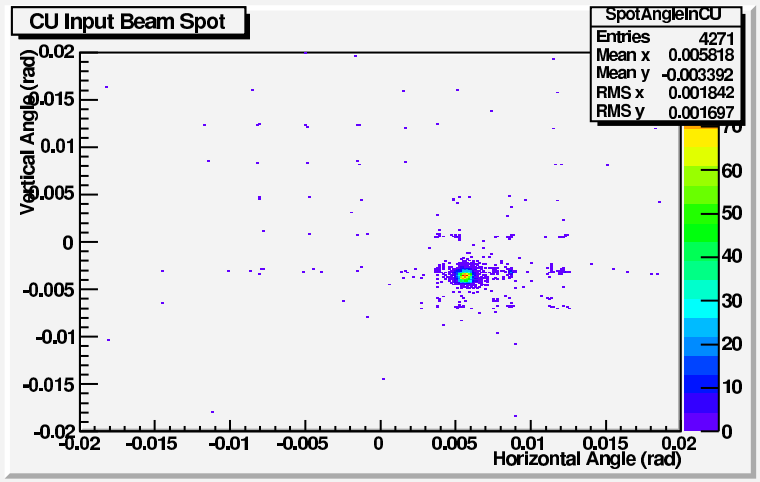

CU Input Horizontal coordinate
HorCoordInCU
Entries 4271
Mean 206.5
RMS 6.626
Position (mm)

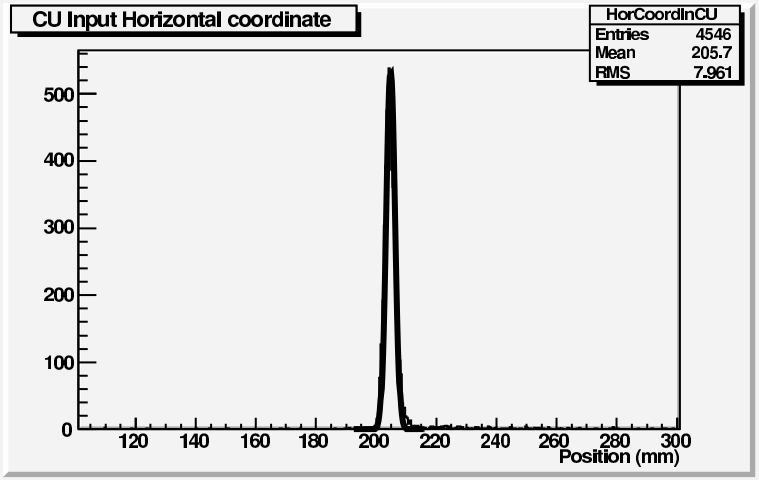

CU Input vertical coordinate
VertCoordInCU
Entries 4271
Mean 32.11
RMS 4.745
Position (mm)

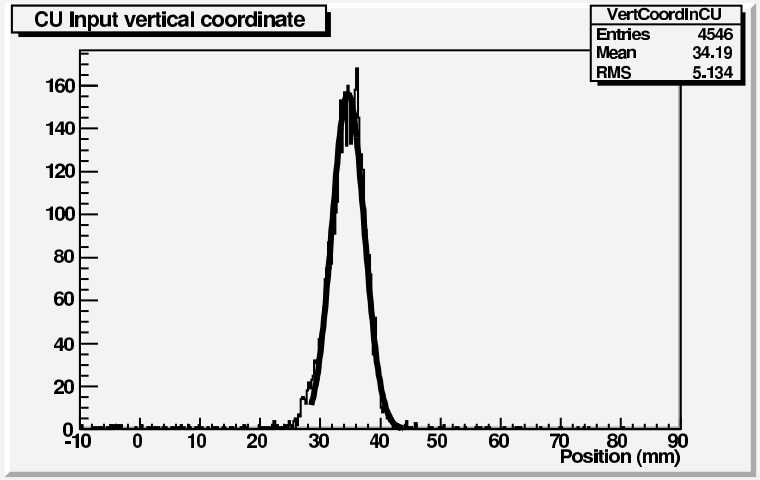

CU Input horizontal angle
HorAngleInCU
Entries 4271
Mean -0.003389
RMS 0.001811
Angle (rad)

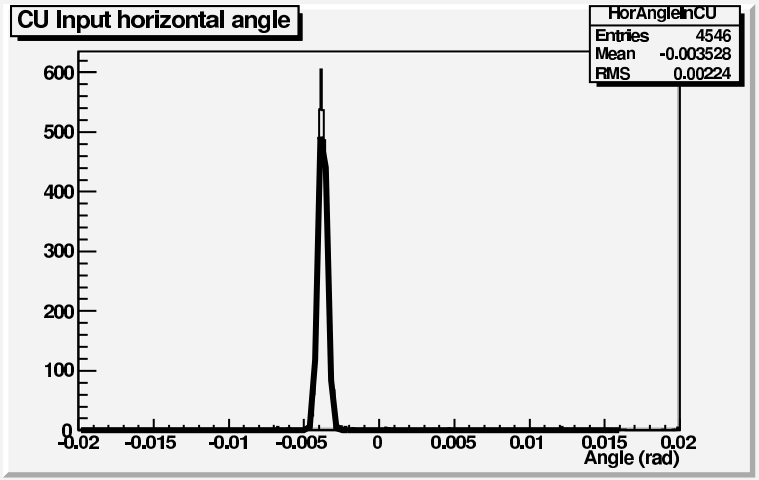

CU Input vertical angle
VertAngleInCU
Entries 4271
Mean 0.005854
RMS 0.001708
Angle (rad)

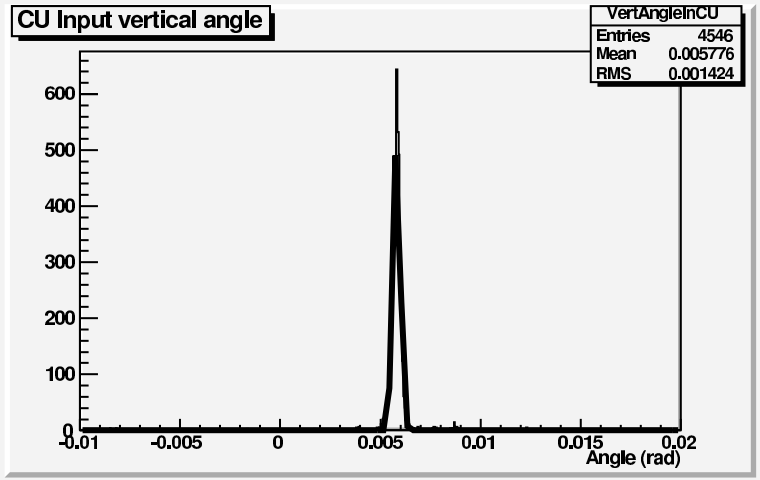

CU Input Beam Spot
SpotCoordInCU
Entries 4271
Mean x 206.2
Mean y 32.28
RMS x 3.907
RMS y 3.717
Vertical Position (mm)
Horizontal Position (mm)

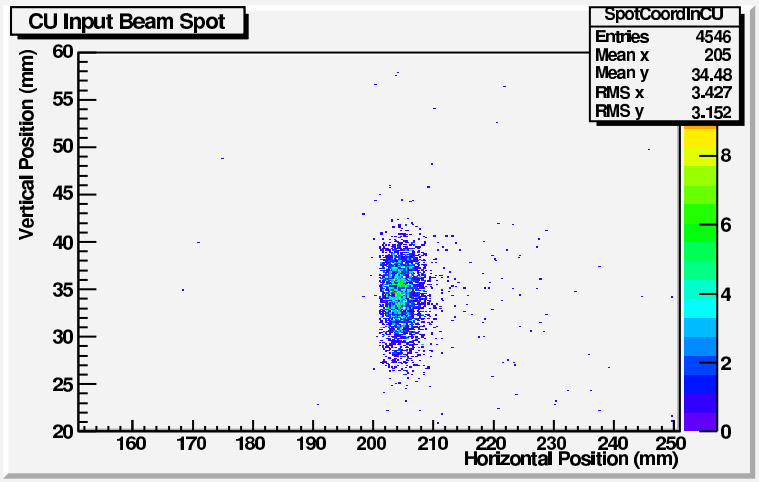

CU Input Beam Spot
SpotAngleInCU
Entries 4271
Mean x 0.005818
Mean y -0.003392
RMS x 0.001842
RMS y 0.001697
Vertical Angle (rad)
Horizontal Angle (rad)

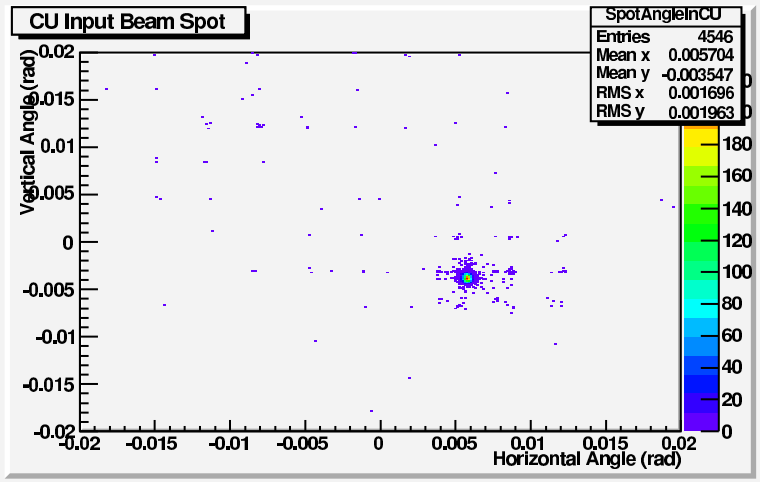

CU Input Horizontal coordinate
HorCoordInCU
Entries 4546
Mean 205.7
RMS 7.961
Position (mm)

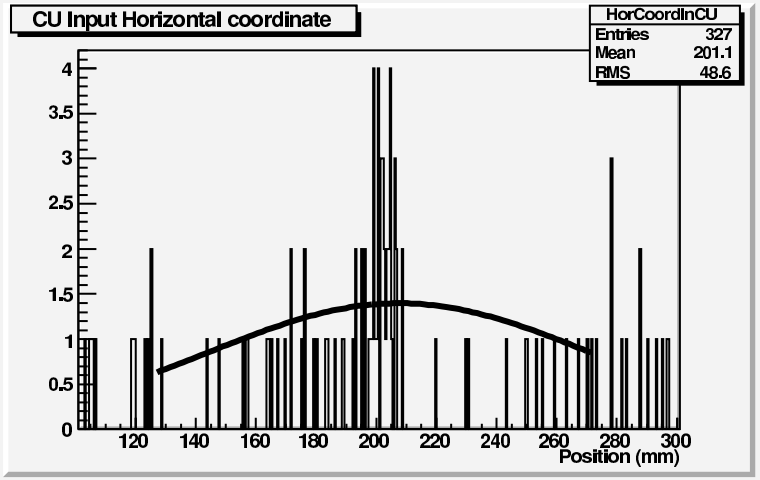

CU Input vertical coordinate
VertCoordInCU
Entries 4546
Mean 34.19
RMS 5.134
Position (mm)

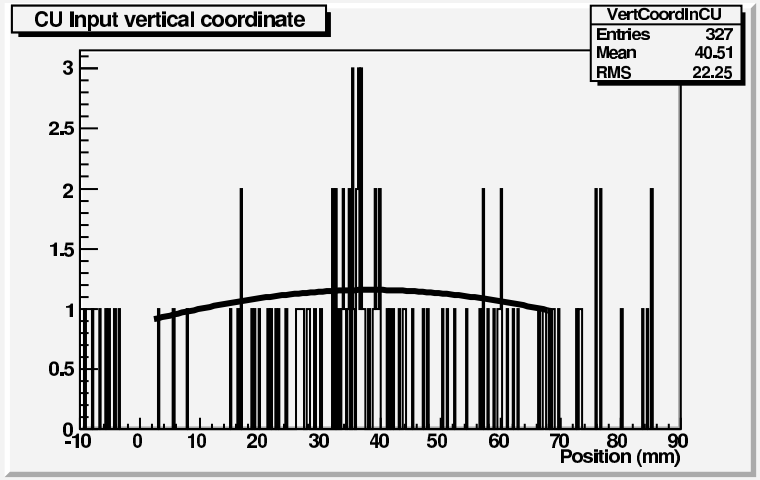

CU Input horizontal angle
HorAngleInCU
Entries 4546
Mean -0.003528
RMS 0.00224
Angle (rad)

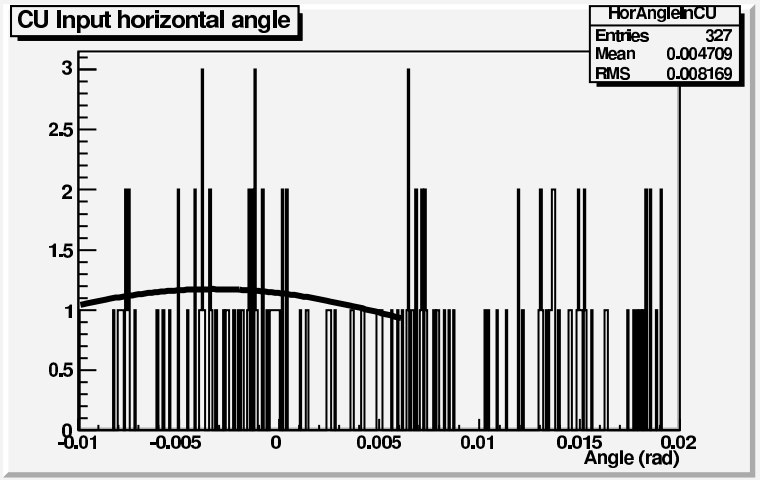

CU Input vertical angle
VertAngleInCU
Entries 4546
Mean 0.005776
RMS 0.001424
Angle (rad)

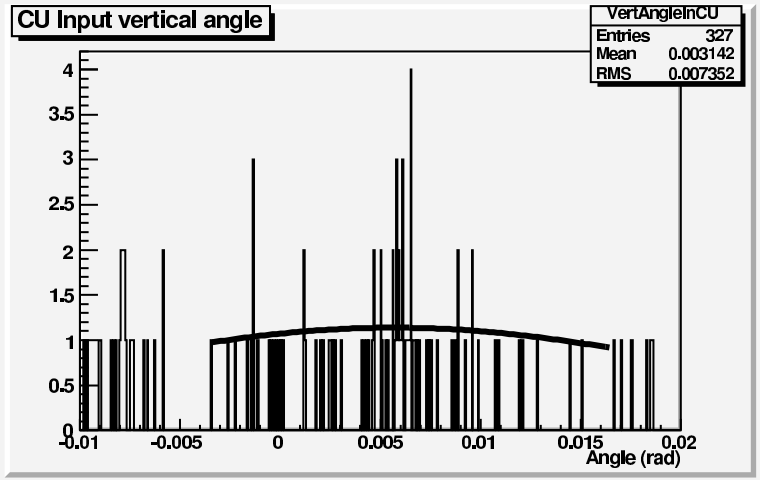

CU Input Beam Spot
SpotCoordInCU
Entries 4546
Mean x 205
Mean y 34.48
RMS x 3.427
RMS y 3.152
Vertical Position (mm)
Horizontal Position (mm)

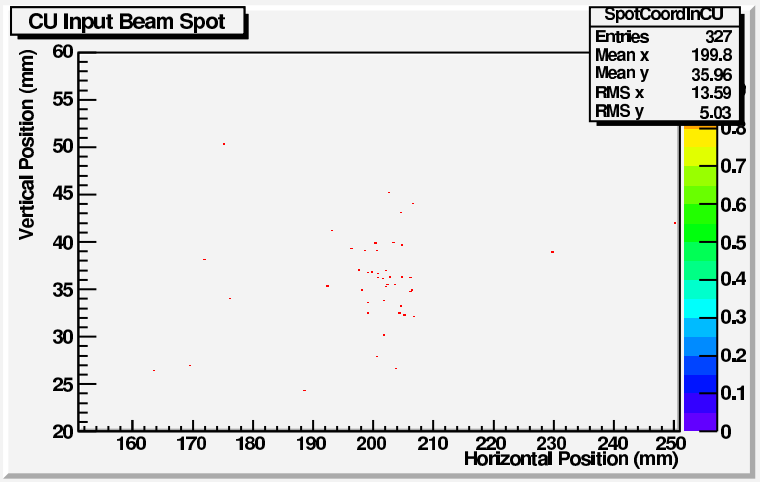

CU Input Beam Spot
SpotAngleInCU
Entries 4546
Mean x 0.005704
Mean y -0.003547
RMS x 0.001696
RMS y 0.001963
Vertical Angle (rad)
Horizontal Angle (rad)

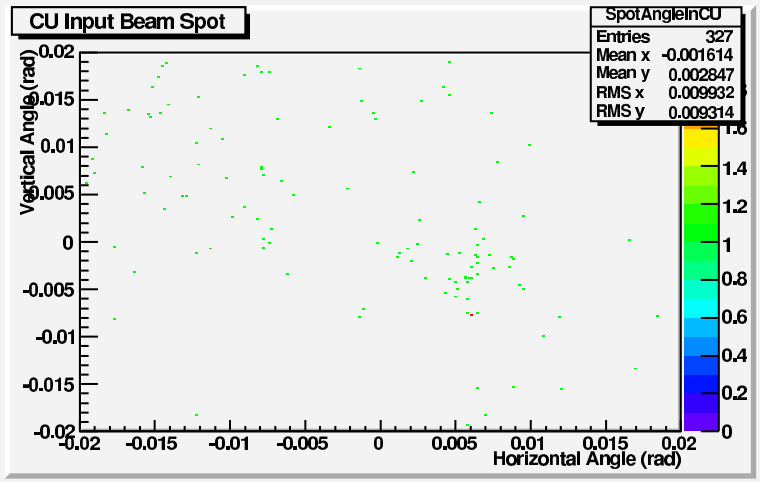

CU Input Horizontal coordinate
HorCoordInCU
Entries 327
Mean 201.1
RMS 48.6
Position (mm)

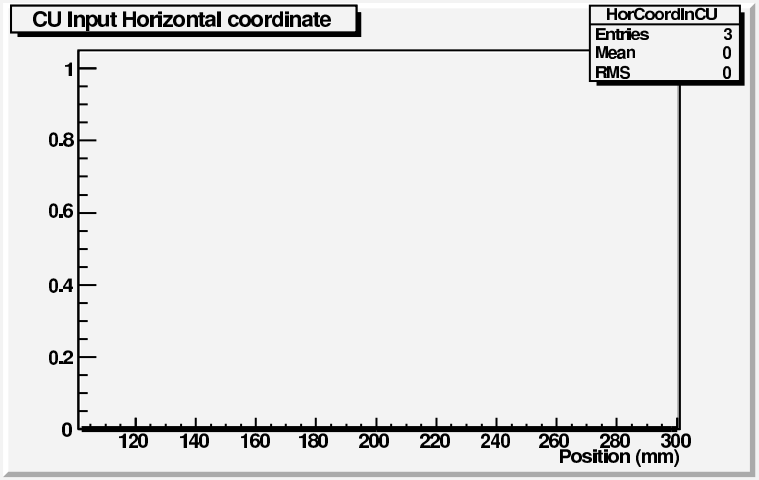

CU Input vertical coordinate
VertCoordInCU
Entries 327
Mean 40.51
RMS 22.25
Position (mm)

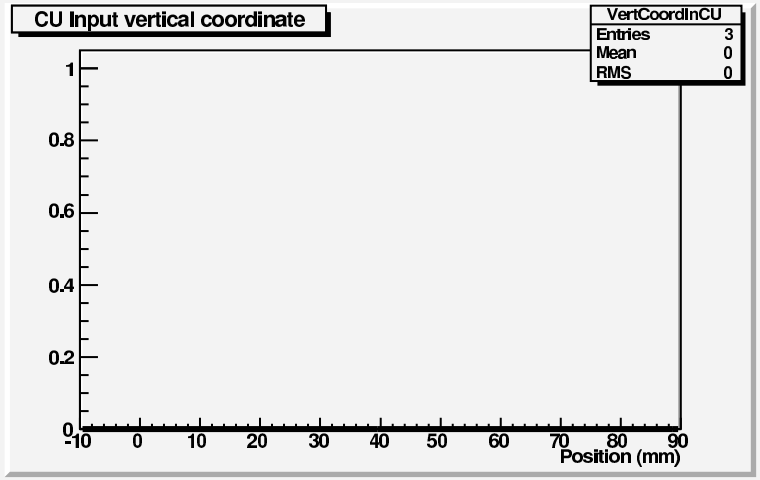

CU Input horizontal angle
HorAngleInCU
Entries 327
Mean 0.004709
RMS 0.008169
Angle (rad)

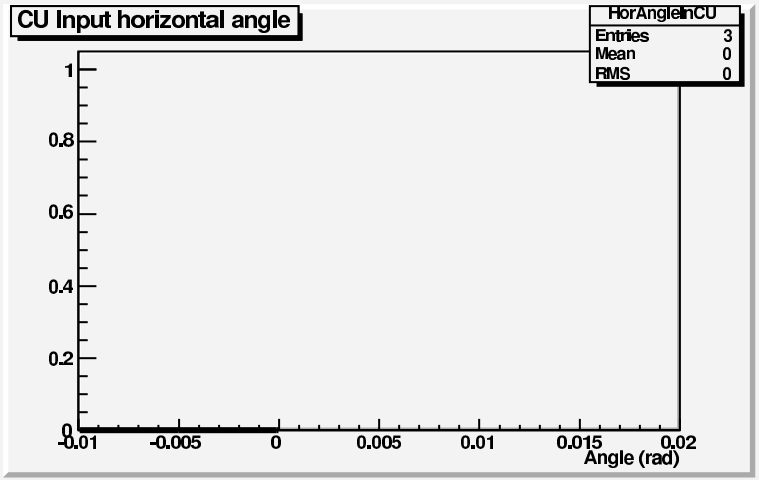

CU Input vertical angle
VertAngleInCU
Entries 327
Mean 0.003142
RMS 0.007352
Angle (rad)

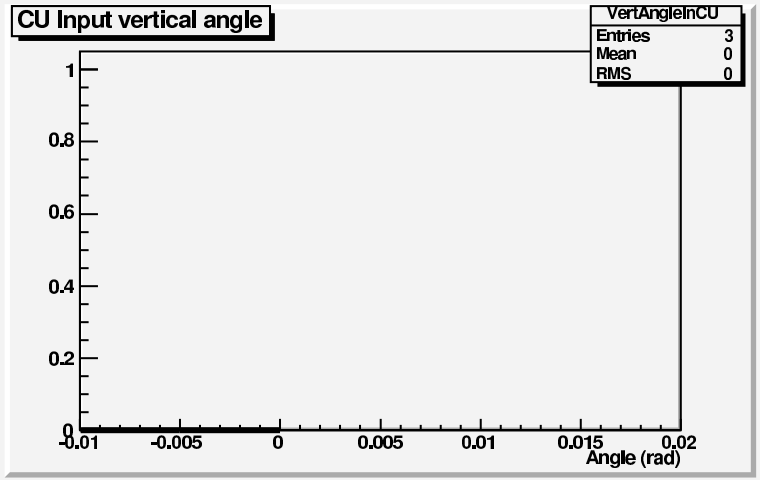

CU Input Beam Spot
SpotCoordInCU
Entries 327
Mean x 199.8
Mean y 35.96
RMS x 13.59
RMS y 5.03
Vertical Position (mm)
Horizontal Position (mm)

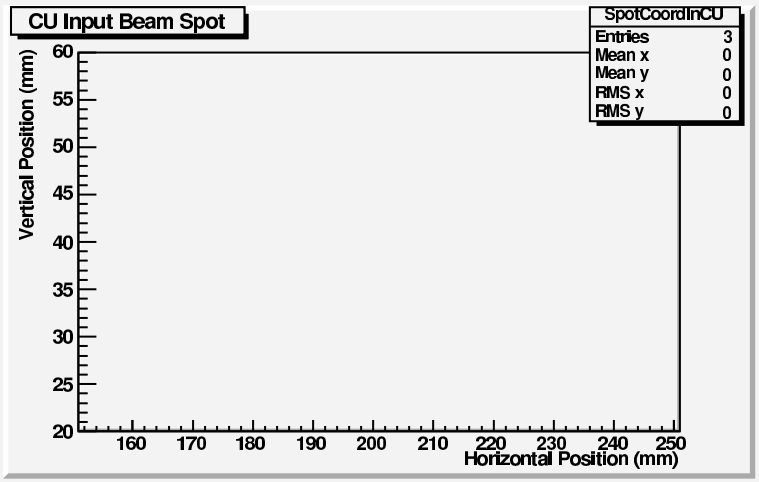

CU Input Beam Spot
SpotAngleInCU
Entries 327
Mean x -0.001614
Mean y 0.002847
RMS x 0.009932
RMS y 0.009314
Vertical Angle (rad)
Horizontal Angle (rad)

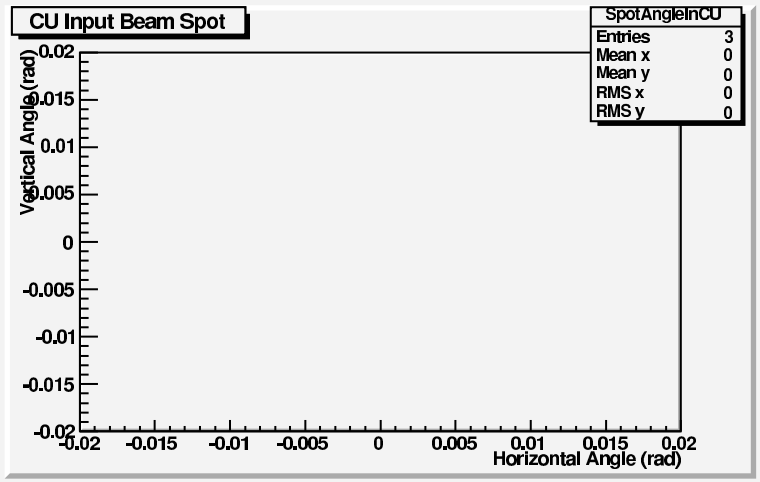

CU Input Horizontal coordinate
HorCoordInCU
Entries 3
Mean 0
RMS 0
Position (mm)

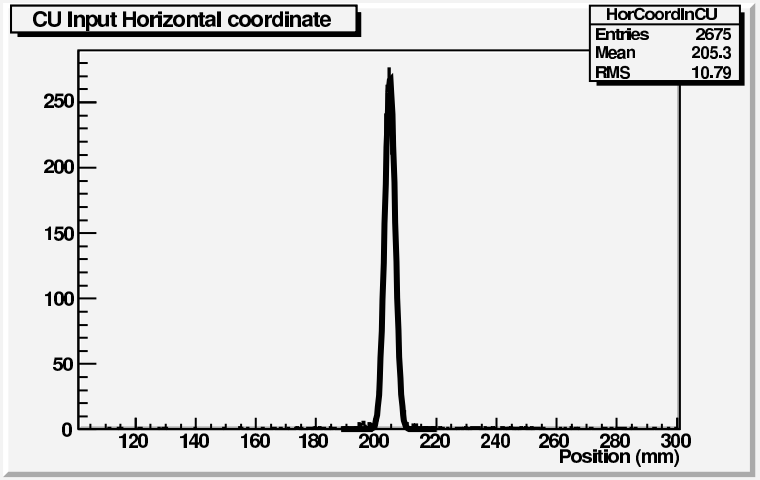

CU Input vertical coordinate
VertCoordInCU
Entries 3
Mean 0
RMS 0
Position (mm)

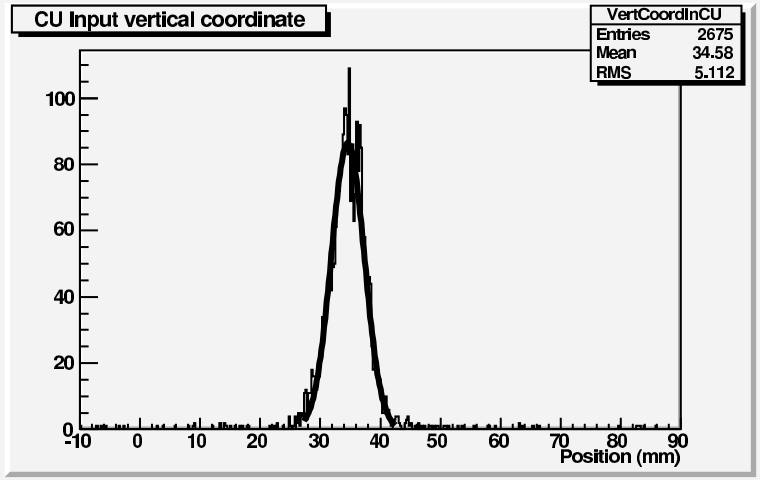

CU Input horizontal angle
HorAngleInCU
Entries 3
Mean 0
RMS 0
Angle (rad)

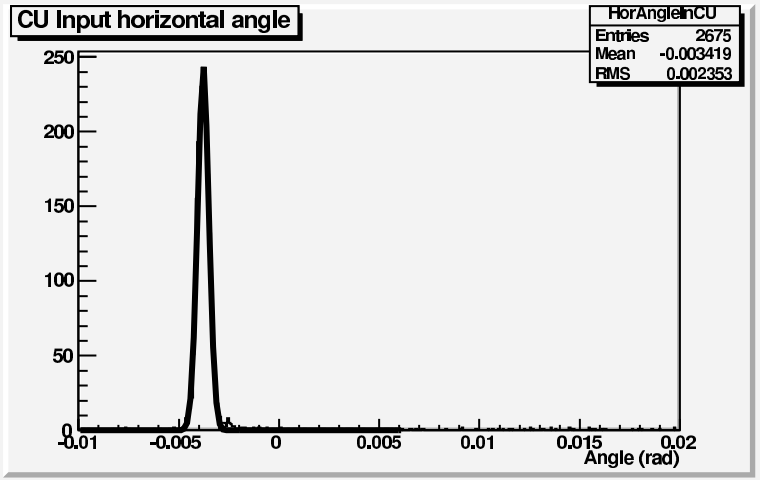

CU Input vertical angle
VertAngleInCU
Entries 3
Mean 0
RMS 0
Angle (rad)

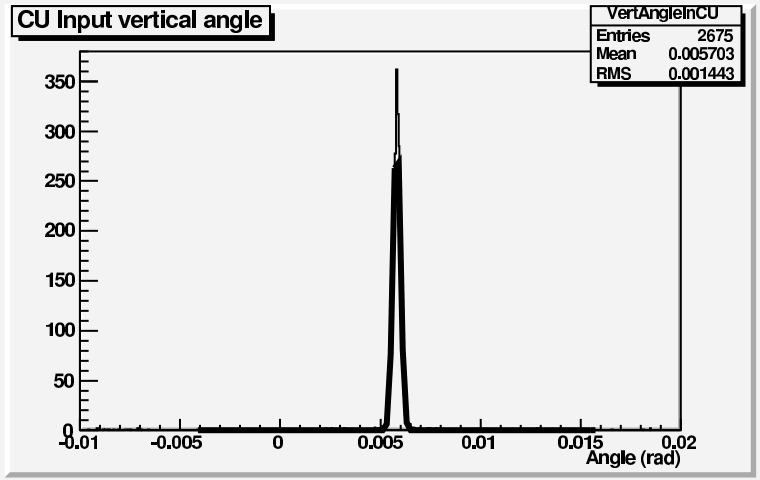

CU Input Beam Spot
SpotCoordInCU
Entries 3
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Position (mm)
Horizontal Position (mm)

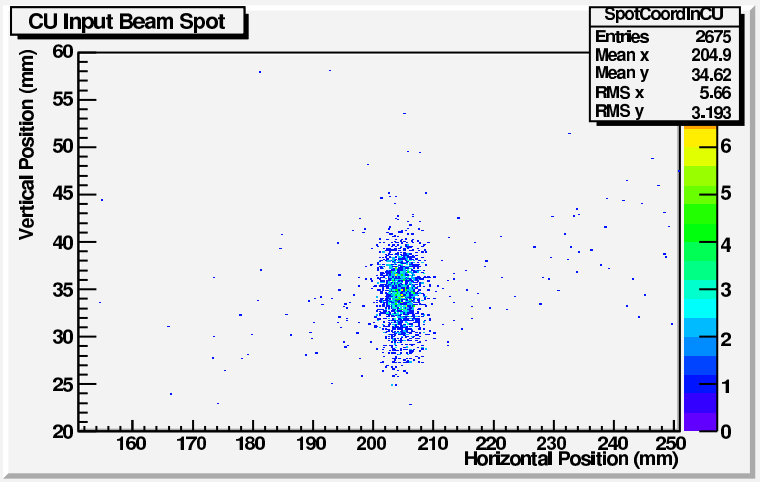

CU Input Beam Spot
SpotAngleInCU
Entries 3
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

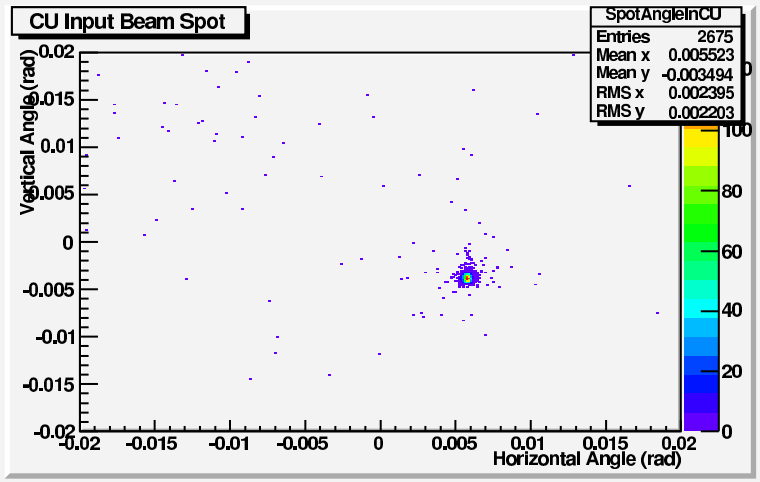

CU Input Horizontal coordinate
HorCoordInCU
Entries 2675
Mean 205.3
RMS 10.79
Position (mm)

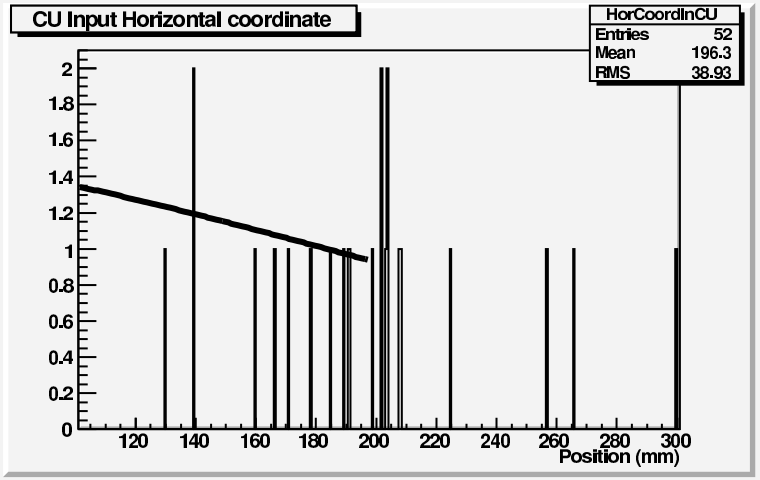

CU Input vertical coordinate
VertCoordInCU
Entries 2675
Mean 34.58
RMS 5.112
Position (mm)

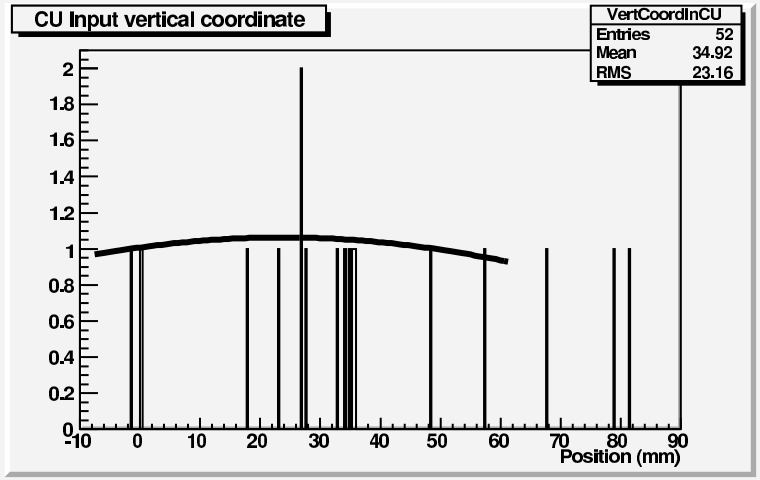

CU Input horizontal angle
HorAngleInCU
Entries 2675
Mean -0.003419
RMS 0.002353
Angle (rad)

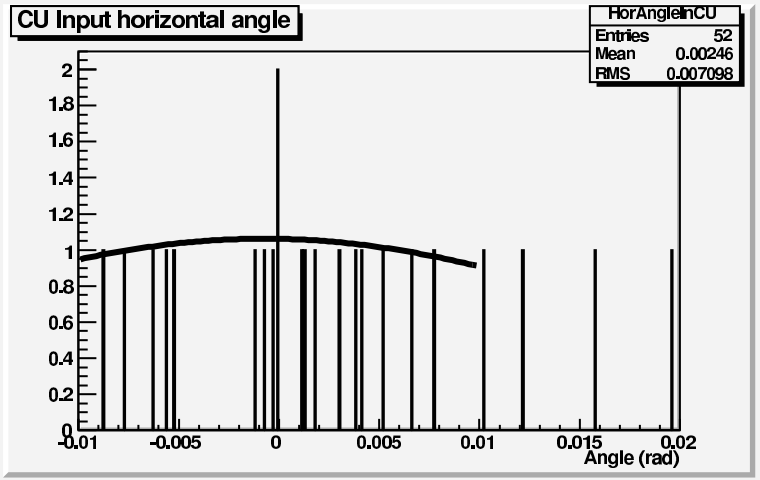

CU Input vertical angle
VertAngleInCU
Entries 2675
Mean 0.005703
RMS 0.001443
Angle (rad)

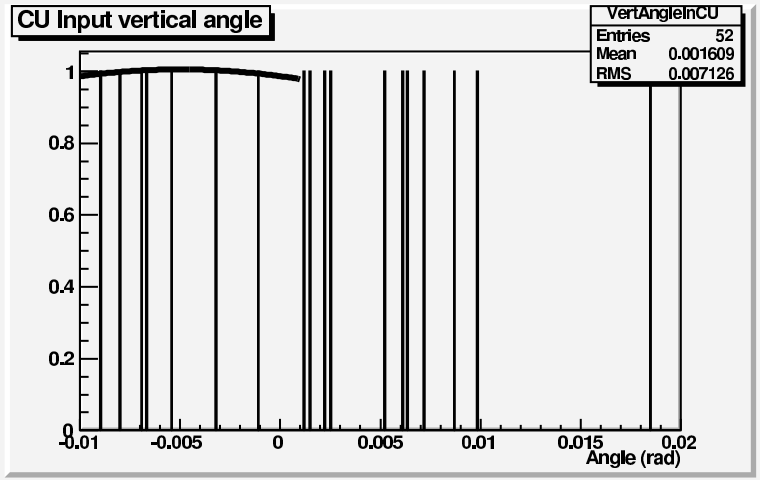

CU Input Beam Spot
SpotCoordInCU
Entries 2675
Mean x 204.9
Mean y 34.62
RMS x 5.66
RMS y 3.193
Vertical Position (mm)
Horizontal Position (mm)

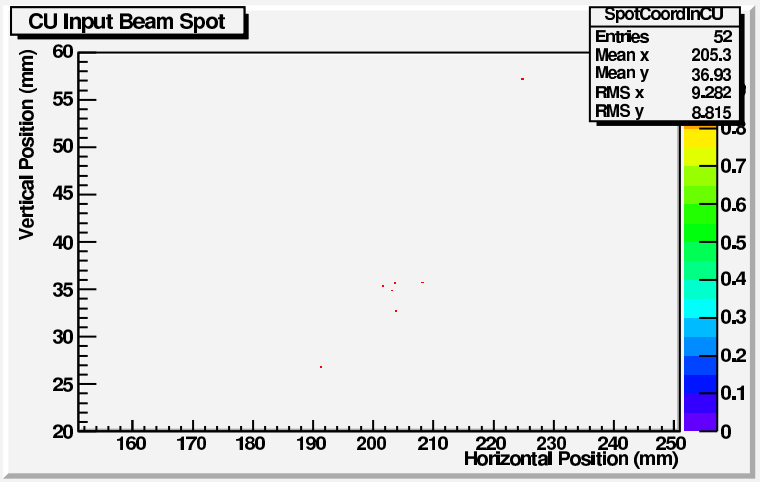

CU Input Beam Spot
SpotAngleInCU
Entries 2675
Mean x 0.005523
Mean y -0.003494
RMS x 0.002395
RMS y 0.002203
Vertical Angle (rad)
Horizontal Angle (rad)

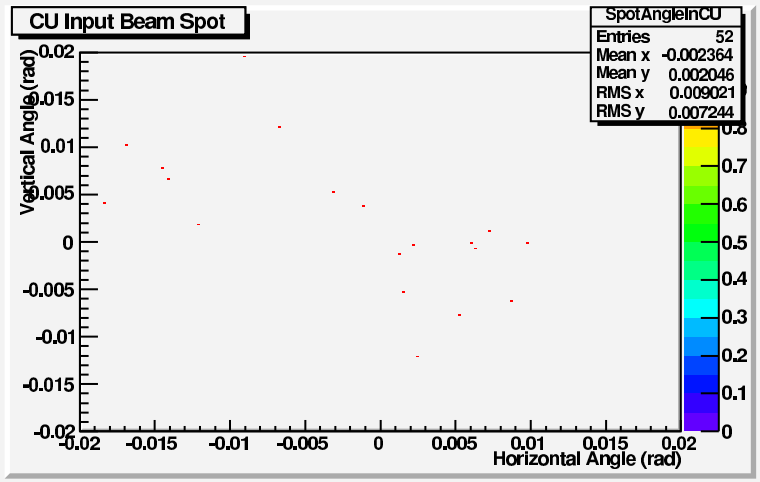

CU Input Horizontal coordinate
HorCoordInCU
Entries 52
Mean 196.3
RMS 38.93
Position (mm)

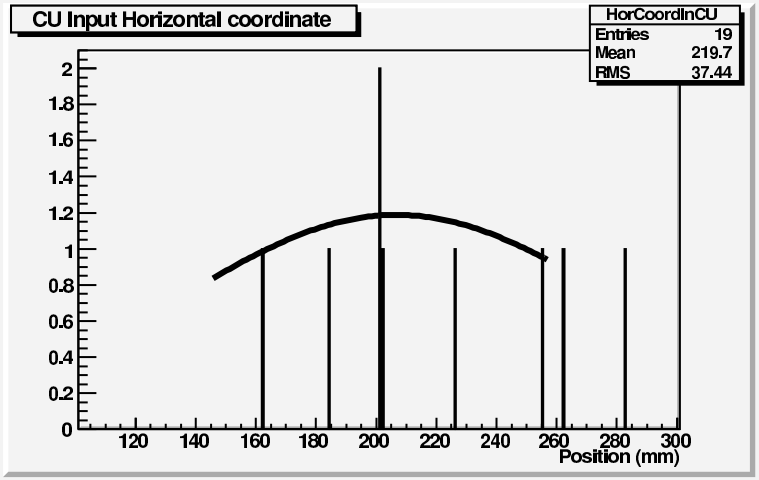

CU Input vertical coordinate
VertCoordInCU
Entries 52
Mean 34.92
RMS 23.16
Position (mm)

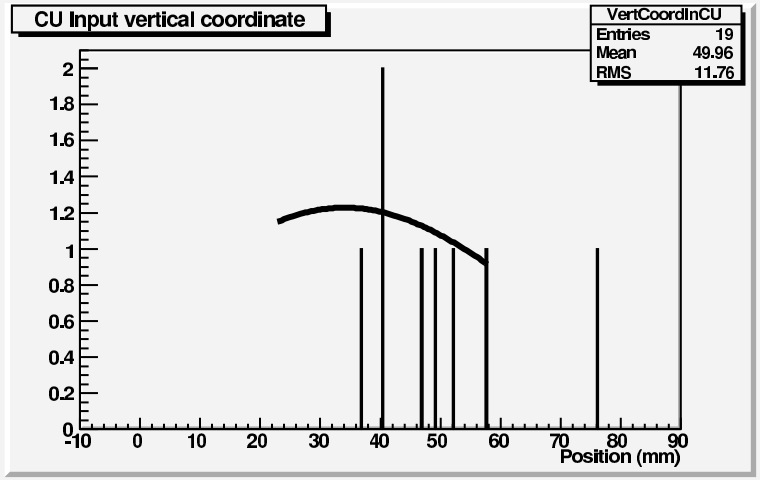

CU Input horizontal angle
HorAngleInCU
Entries 52
Mean 0.00246
RMS 0.007098
Angle (rad)

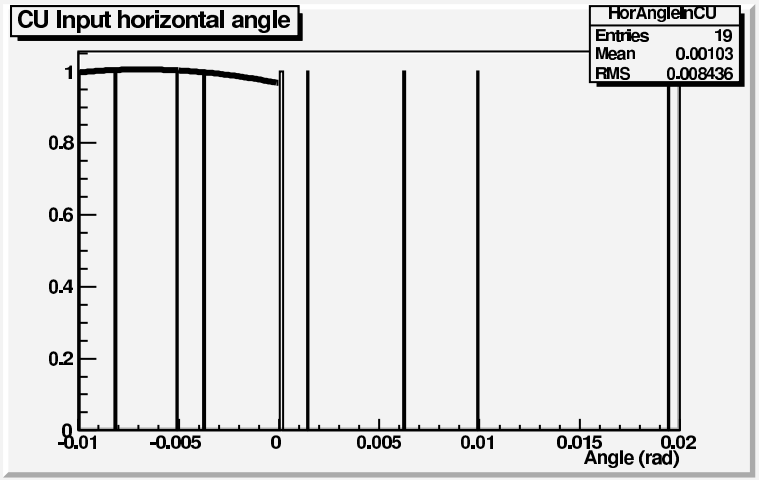

CU Input vertical angle
VertAngleInCU
Entries 52
Mean 0.001609
RMS 0.007126
Angle (rad)

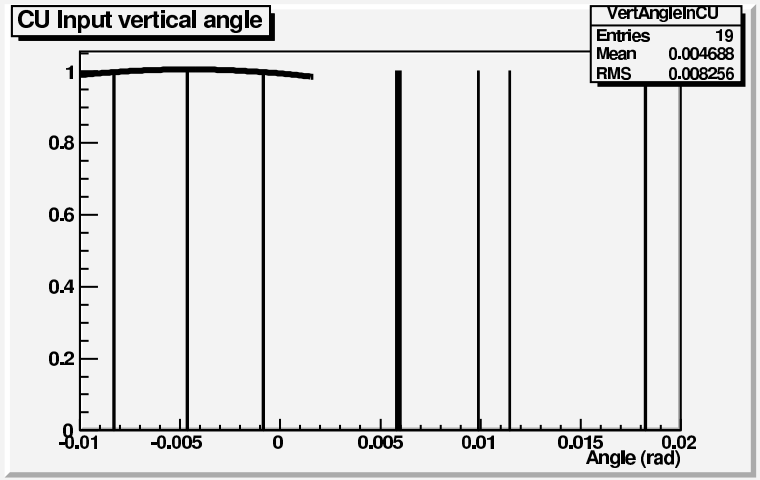

CU Input Beam Spot
SpotCoordInCU
Entries 52
Mean x 205.3
Mean y 36.93
RMS x 9.282
RMS y 8.815
Vertical Position (mm)
Horizontal Position (mm)

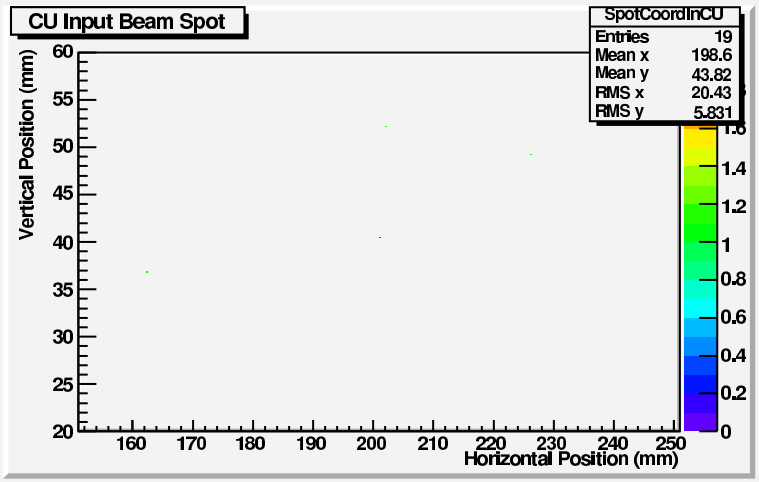

CU Input Beam Spot
SpotAngleInCU
Entries 52
Mean x -0.002364
Mean y 0.002046
RMS x 0.009021
RMS y 0.007244
Vertical Angle (rad)
Horizontal Angle (rad)

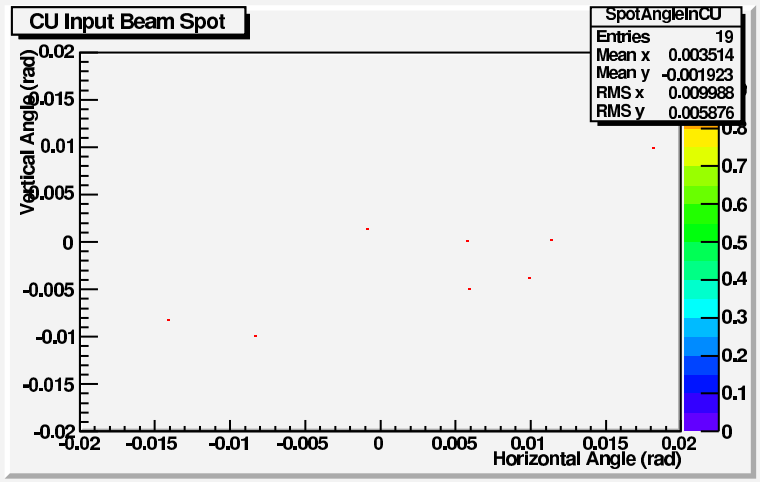

CU Input Horizontal coordinate
HorCoordInCU
Entries 19
Mean 219.7
RMS 37.44
Position (mm)

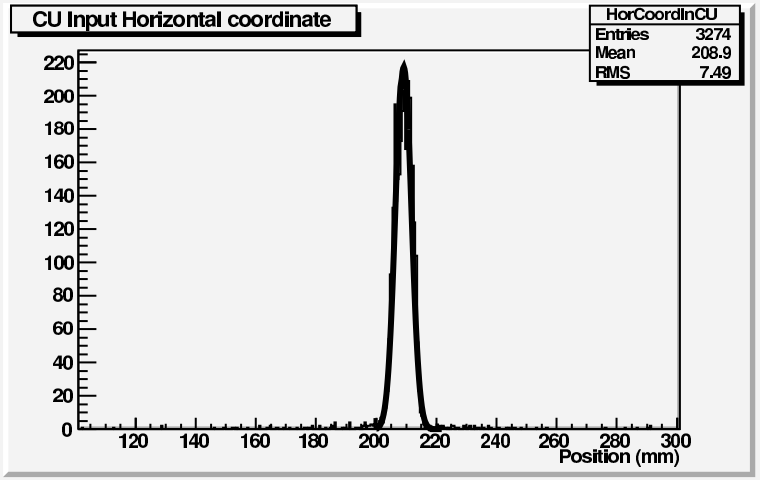

CU Input vertical coordinate
VertCoordInCU
Entries 19
Mean 49.96
RMS 11.76
Position (mm)

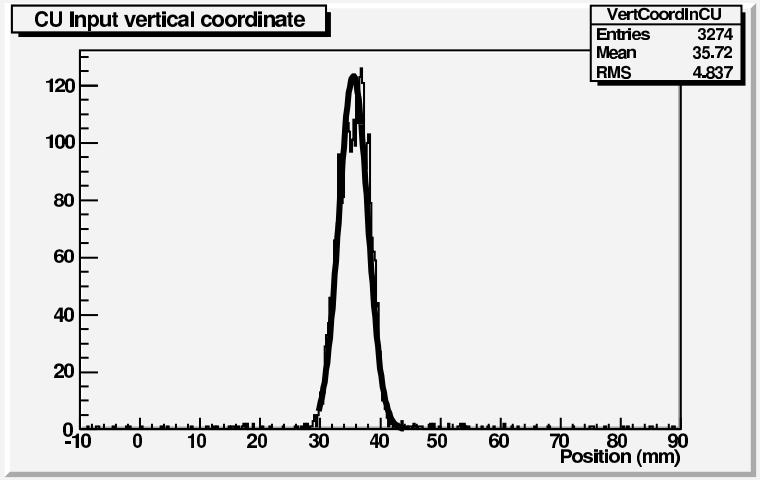

CU Input horizontal angle
HorAngleInCU
Entries 19
Mean 0.00103
RMS 0.008436
Angle (rad)

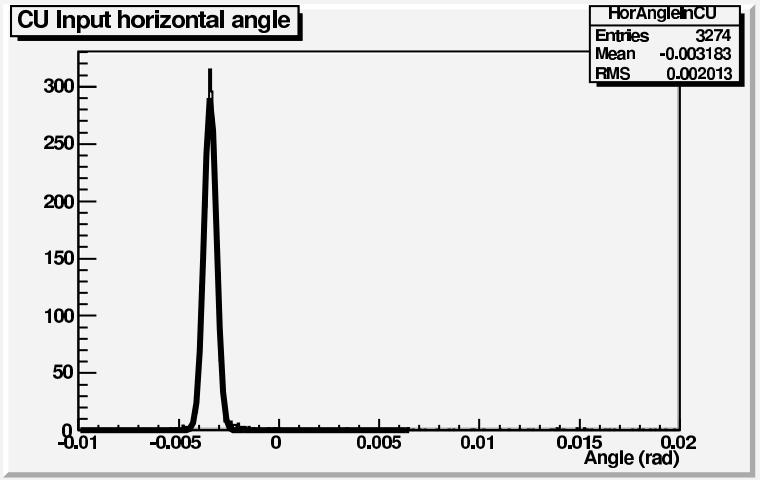

CU Input vertical angle
VertAngleInCU
Entries 19
Mean 0.004688
RMS 0.008256
Angle (rad)

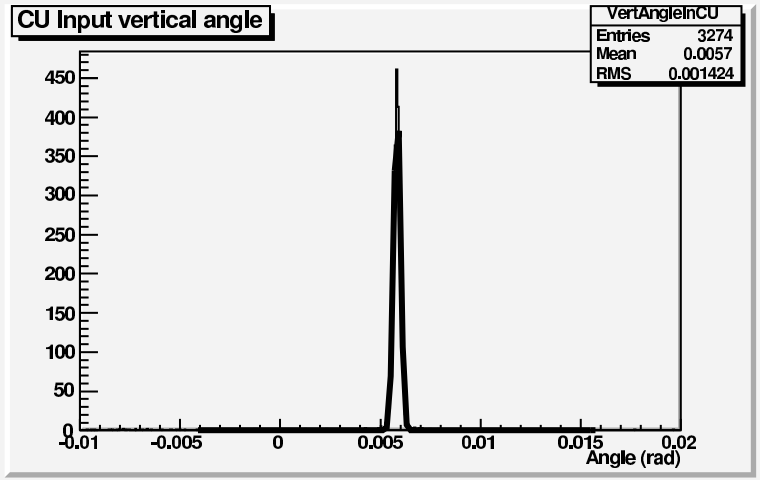

CU Input Beam Spot
SpotCoordInCU
Entries 19
Mean x 198.6
Mean y 43.82
RMS x 20.43
RMS y 5.831
Vertical Position (mm)
Horizontal Position (mm)

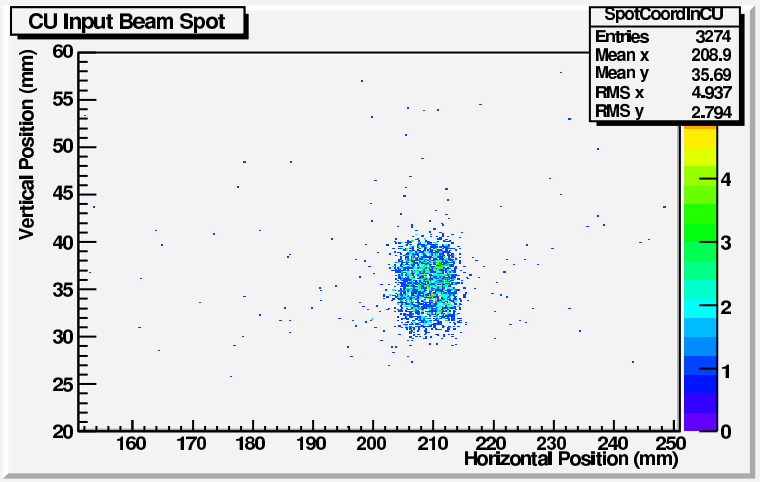

CU Input Beam Spot
SpotAngleInCU
Entries 19
Mean x 0.003514
Mean y -0.001923
RMS x 0.009988
RMS y 0.005876
Vertical Angle (rad)
Horizontal Angle (rad)

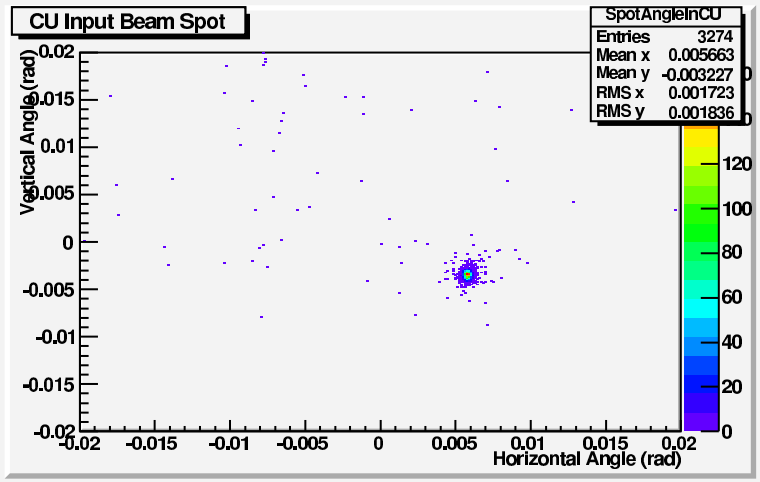

CU Input Horizontal coordinate
HorCoordInCU
Entries 3274
Mean 208.9
RMS 7.49
Position (mm)

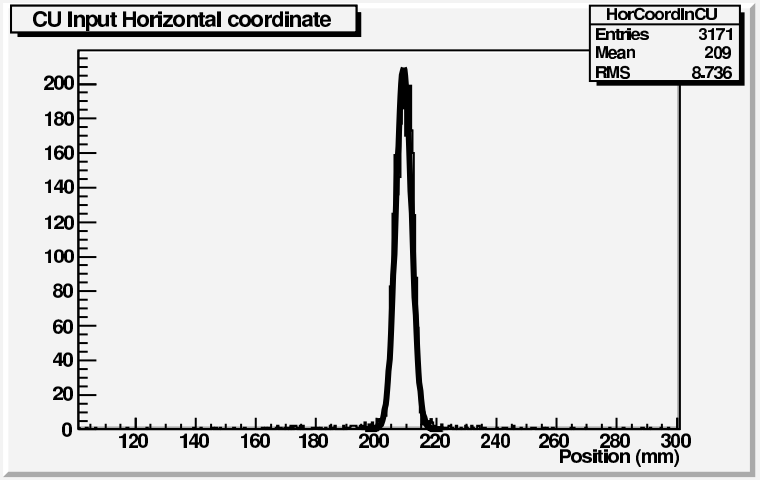

CU Input vertical coordinate
VertCoordInCU
Entries 3274
Mean 35.72
RMS 4.837
Position (mm)

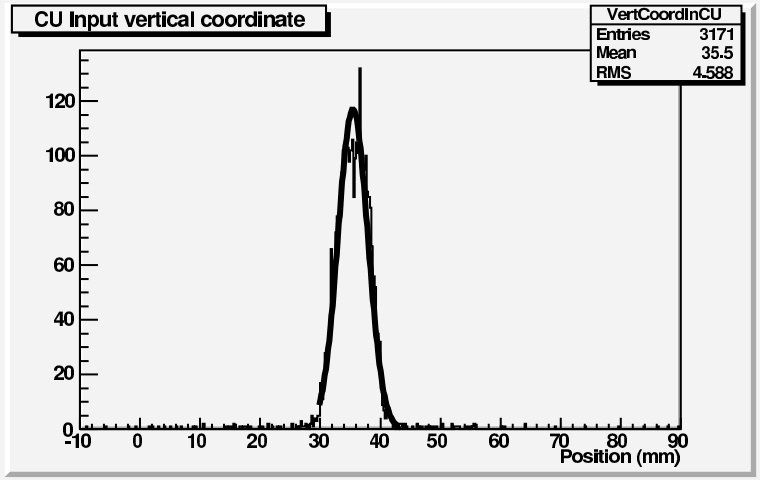

CU Input horizontal angle
HorAngleInCU
Entries 3274
Mean -0.003183
RMS 0.002013
Angle (rad)

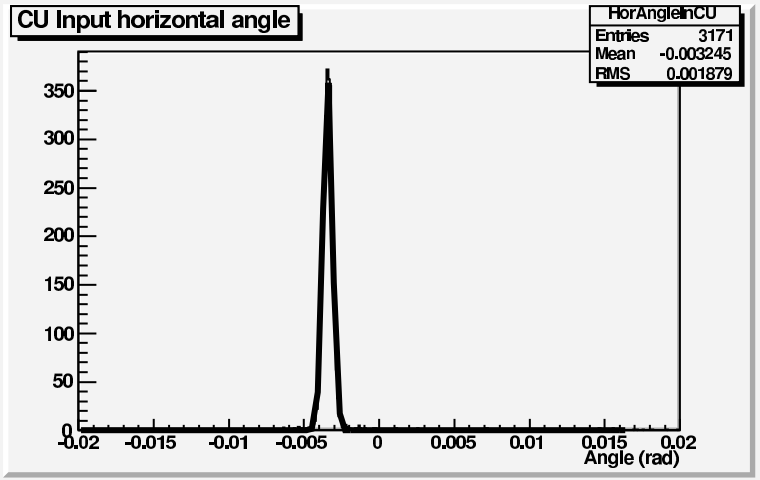

CU Input vertical angle
VertAngleInCU
Entries 3274
Mean 0.0057
RMS 0.001424
Angle (rad)

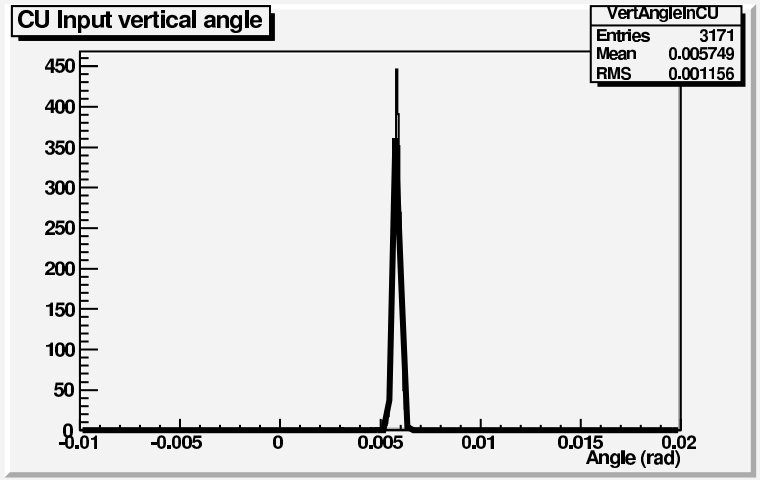

CU Input Beam Spot
SpotCoordInCU
Entries 3274
Mean x 208.9
Mean y 35.69
RMS x 4.937
RMS y 2.794
Vertical Position (mm)
Horizontal Position (mm)

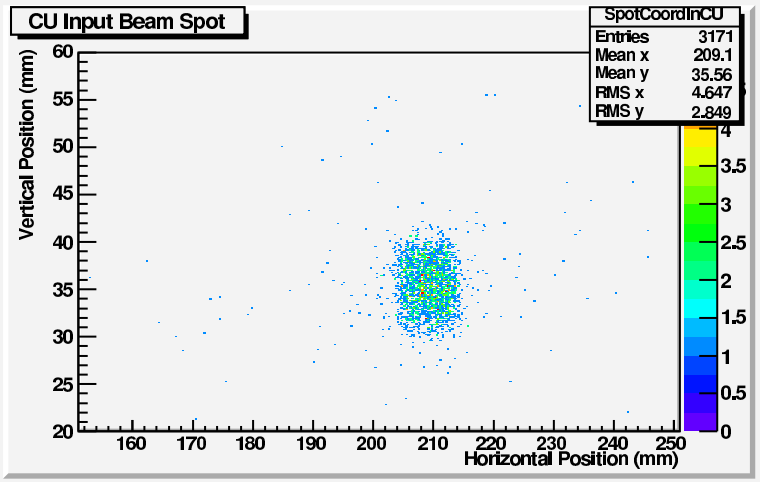

CU Input Beam Spot
SpotAngleInCU
Entries 3274
Mean x 0.005663
Mean y -0.003227
RMS x 0.001723
RMS y 0.001836
Vertical Angle (rad)
Horizontal Angle (rad)

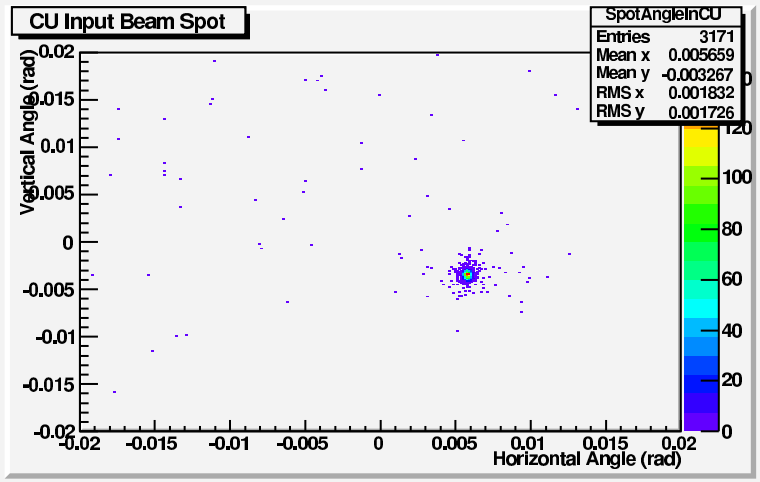

CU Input Horizontal coordinate
HorCoordInCU
Entries 3171
Mean 209
RMS 8.736
Position (mm)

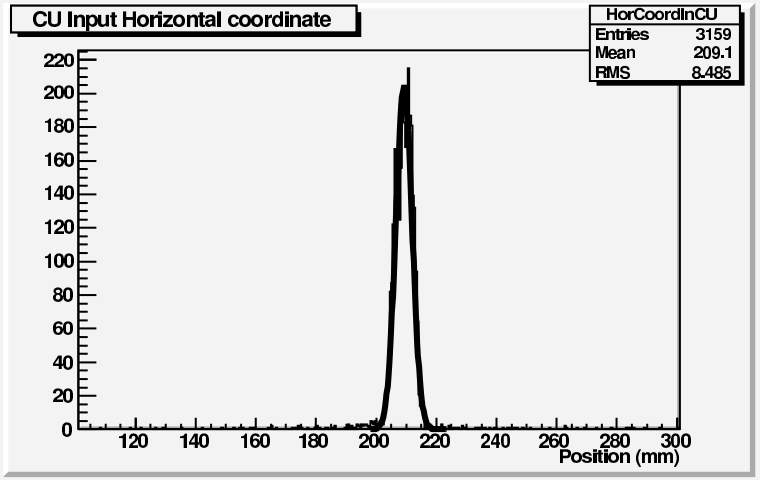

CU Input vertical coordinate
VertCoordInCU
Entries 3171
Mean 35.5
RMS 4.588
Position (mm)

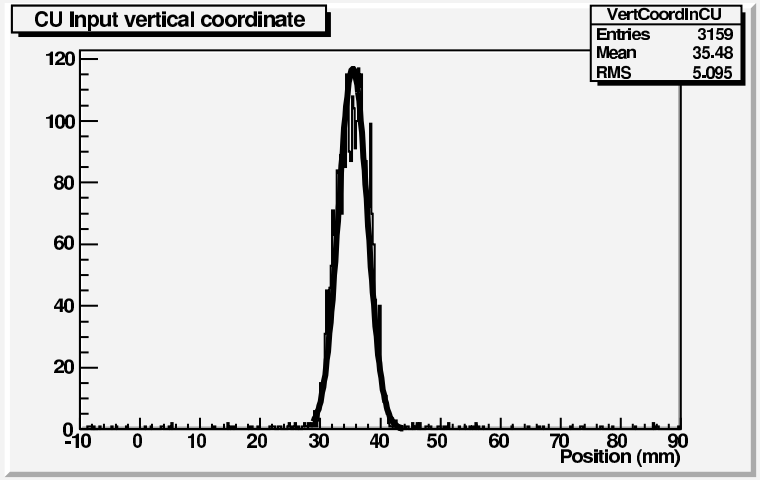

CU Input horizontal angle
HorAngleInCU
Entries 3171
Mean -0.003245
RMS 0.001879
Angle (rad)

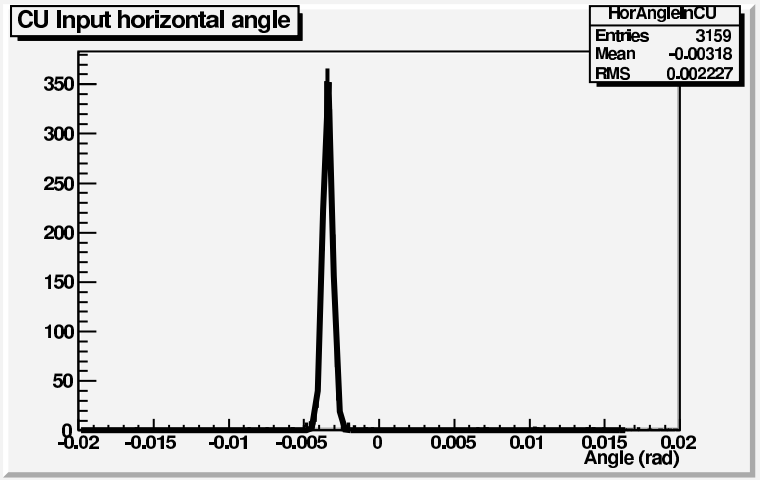

CU Input vertical angle
VertAngleInCU
Entries 3171
Mean 0.005749
RMS 0.001156
Angle (rad)

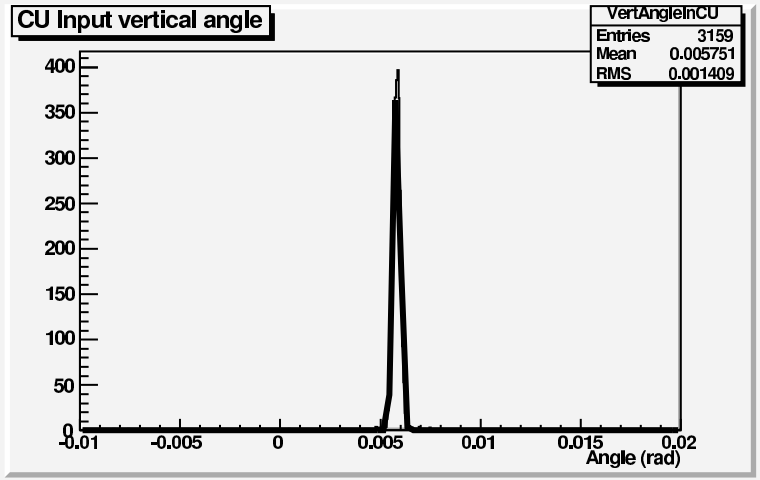

CU Input Beam Spot
SpotCoordInCU
Entries 3171
Mean x 209.1
Mean y 35.56
RMS x 4.647
RMS y 2.849
Vertical Position (mm)
Horizontal Position (mm)

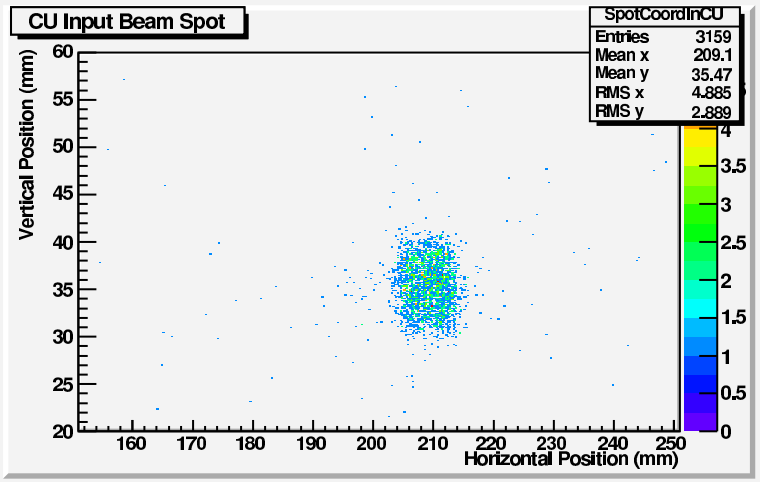

CU Input Beam Spot
SpotAngleInCU
Entries 3171
Mean x 0.005659
Mean y -0.003267
RMS x 0.001832
RMS y 0.001726
Vertical Angle (rad)
Horizontal Angle (rad)

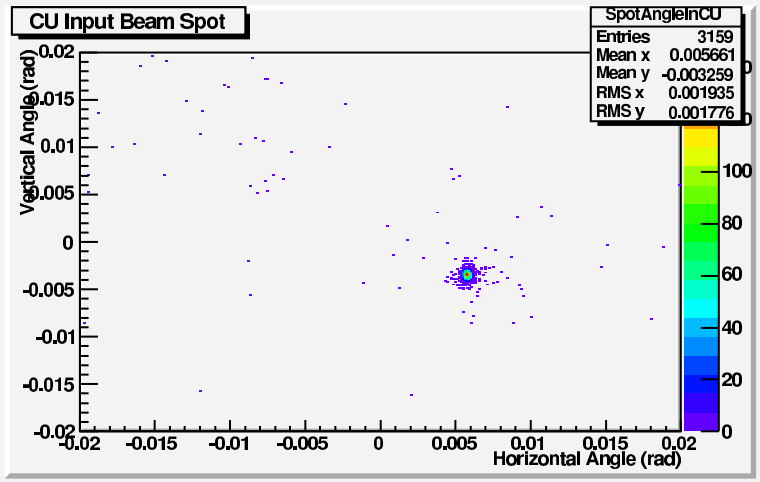

CU Input Horizontal coordinate
HorCoordInCU
Entries 3159
Mean 209.1
RMS 8.485
Position (mm)

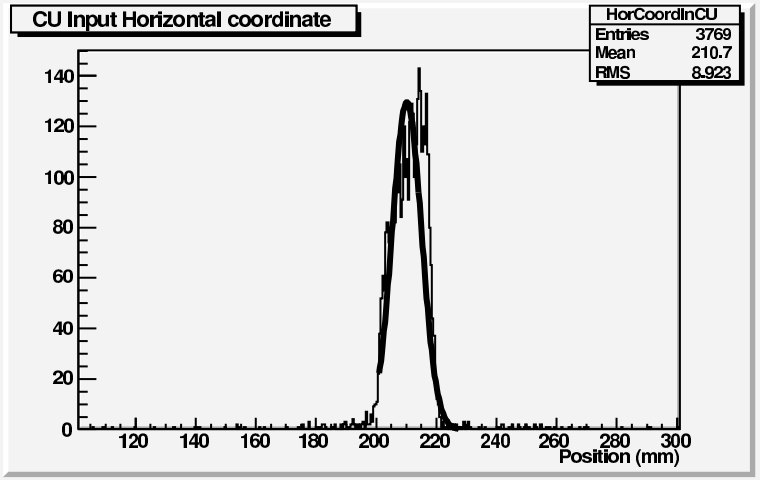

CU Input vertical coordinate
VertCoordInCU
Entries 3159
Mean 35.48
RMS 5.095
Position (mm)

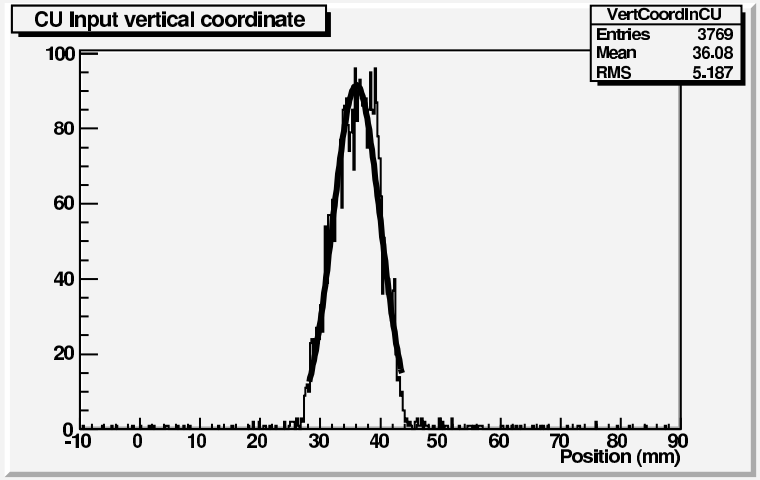

CU Input horizontal angle
HorAngleInCU
Entries 3159
Mean -0.00318
RMS 0.002227
Angle (rad)

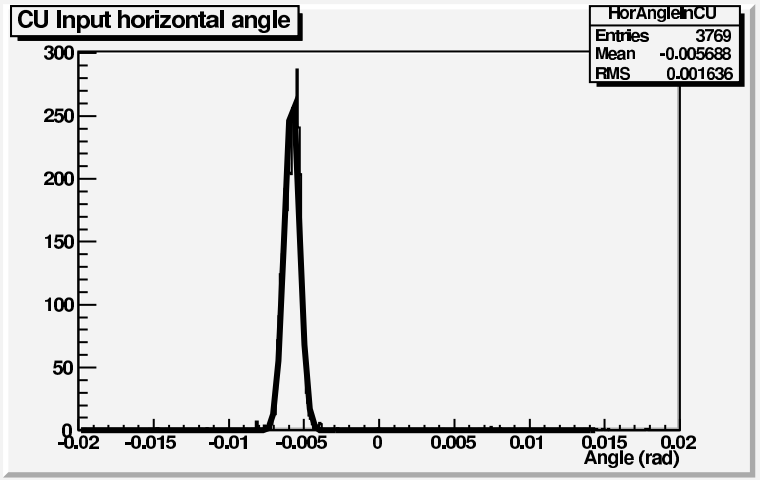

CU Input vertical angle
VertAngleInCU
Entries 3159
Mean 0.005751
RMS 0.001409
Angle (rad)

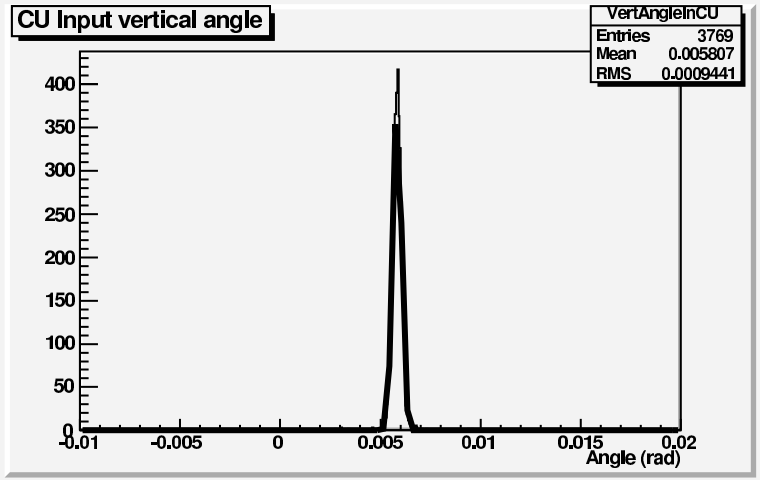

CU Input Beam Spot
SpotCoordInCU
Entries 3159
Mean x 209.1
Mean y 35.47
RMS x 4.885
RMS y 2.889
Vertical Position (mm)
Horizontal Position (mm)

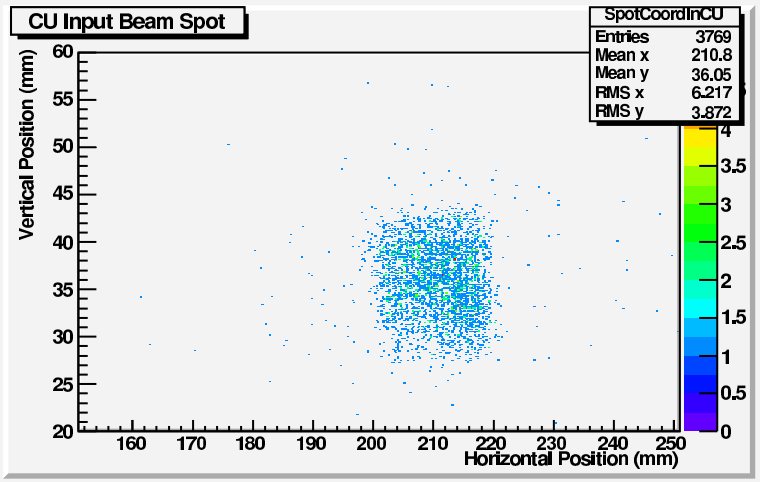

CU Input Beam Spot
SpotAngleInCU
Entries 3159
Mean x 0.005661
Mean y -0.003259
RMS x 0.001935
RMS y 0.001776
Vertical Angle (rad)
Horizontal Angle (rad)

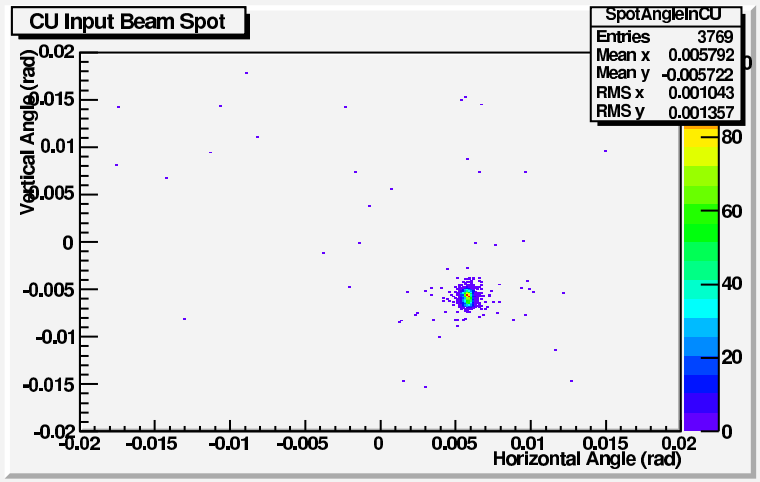

CU Input Horizontal coordinate
HorCoordInCU
Entries 3769
Mean 210.7
RMS 8.923
Position (mm)

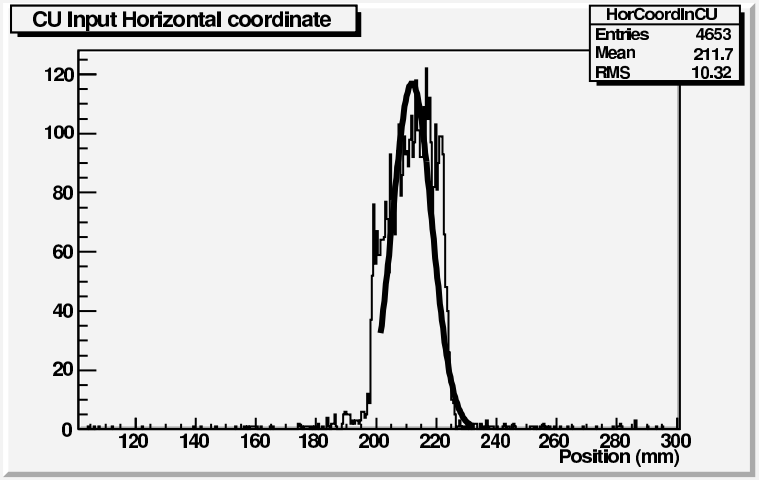

CU Input vertical coordinate
VertCoordInCU
Entries 3769
Mean 36.08
RMS 5.187
Position (mm)

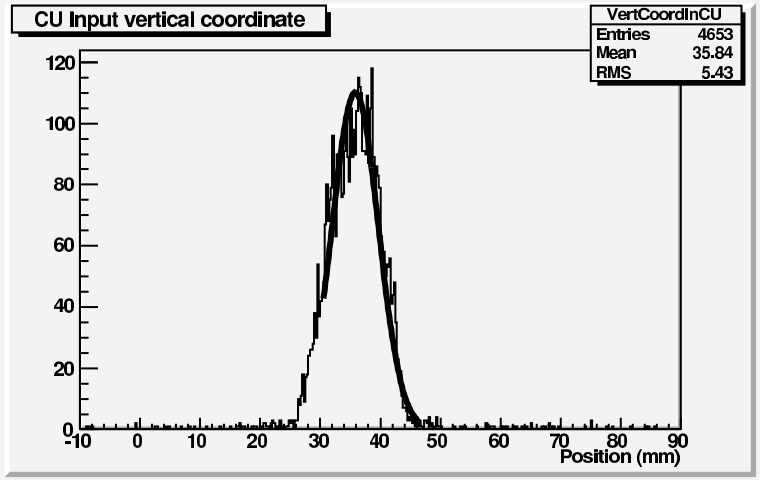

CU Input horizontal angle
HorAngleInCU
Entries 3769
Mean -0.005688
RMS 0.001636
Angle (rad)

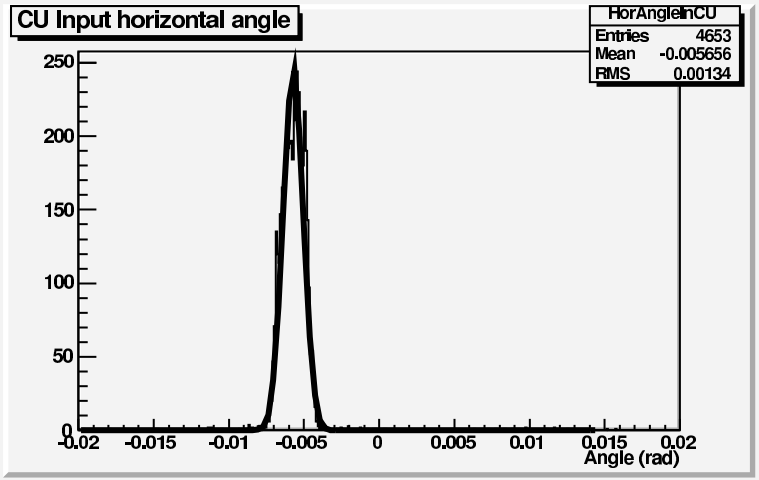

CU Input vertical angle
VertAngleInCU
Entries 3769
Mean 0.005807
RMS 0.0009441
Angle (rad)

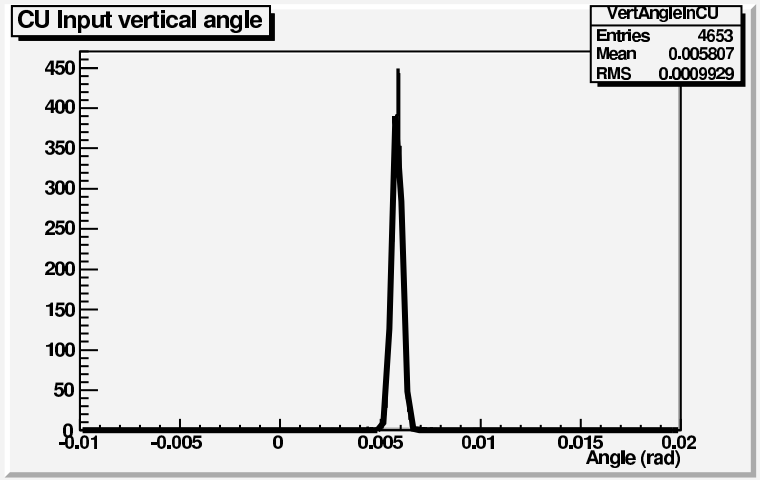

CU Input Beam Spot
SpotCoordInCU
Entries 3769
Mean x 210.8
Mean y 36.05
RMS x 6.217
RMS y 3.872
Vertical Position (mm)
Horizontal Position (mm)

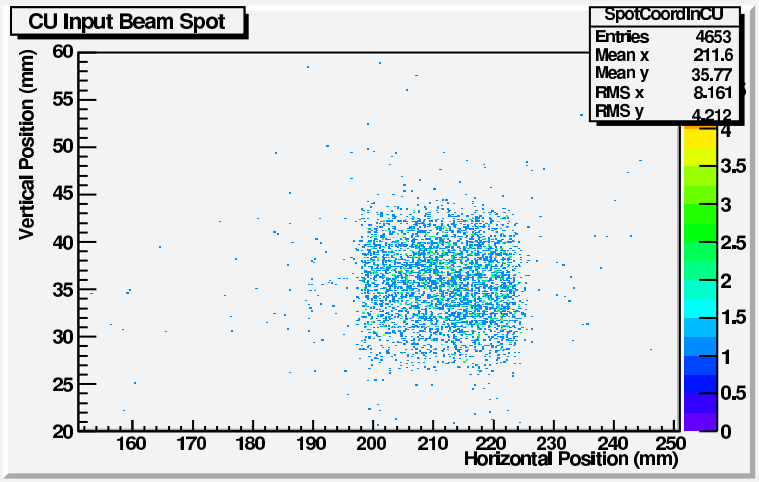

CU Input Beam Spot
SpotAngleInCU
Entries 3769
Mean x 0.005792
Mean y -0.005722
RMS x 0.001043
RMS y 0.001357
Vertical Angle (rad)
Horizontal Angle (rad)

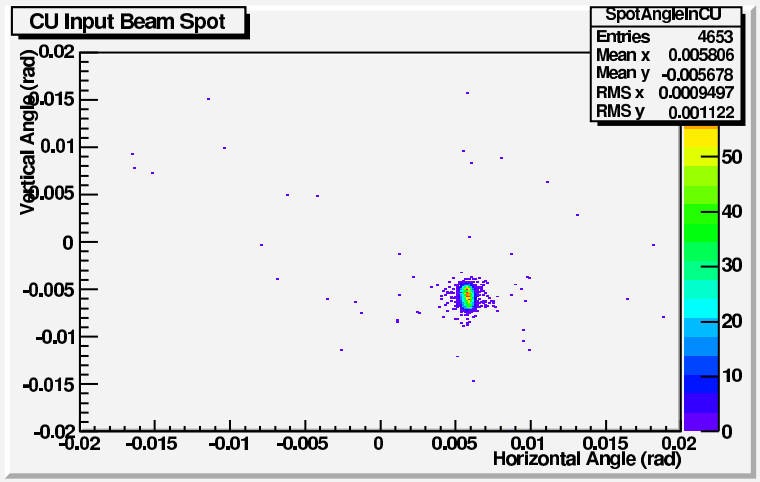

CU Input Horizontal coordinate
HorCoordInCU
Entries 4653
Mean 211.7
RMS 10.32
Position (mm)

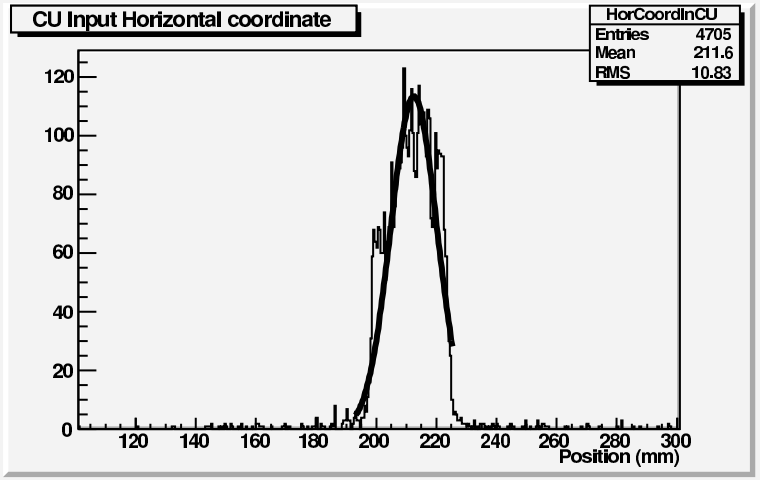

CU Input vertical coordinate
VertCoordInCU
Entries 4653
Mean 35.84
RMS 5.43
Position (mm)

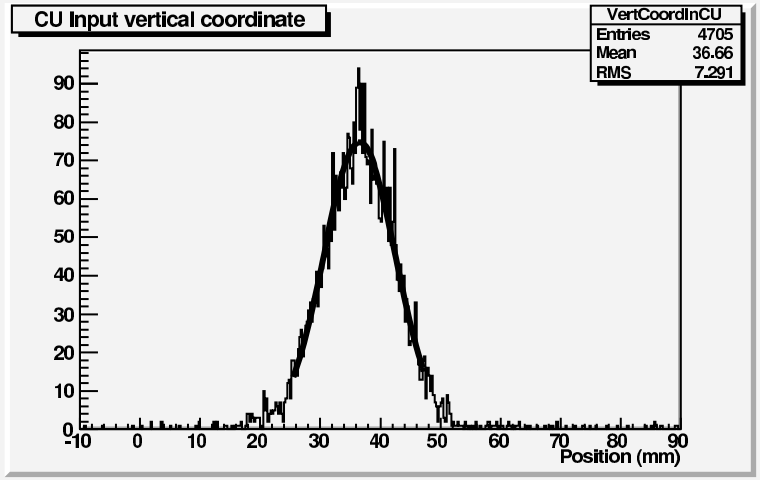

CU Input horizontal angle
HorAngleInCU
Entries 4653
Mean -0.005656
RMS 0.00134
Angle (rad)

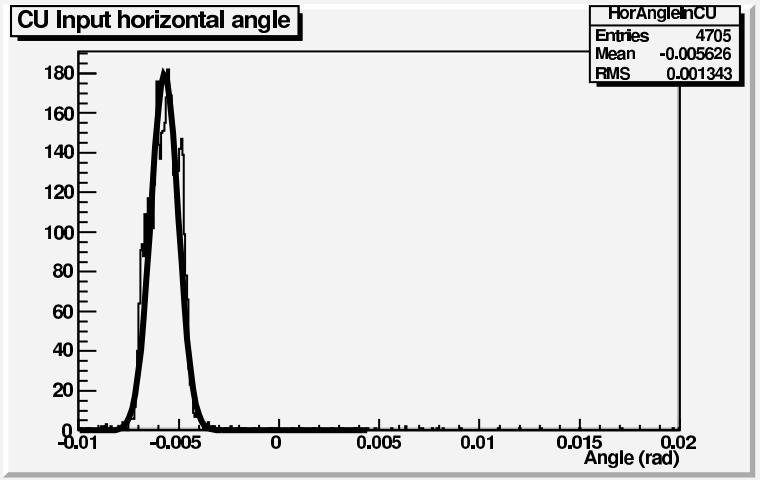

CU Input vertical angle
VertAngleInCU
Entries 4653
Mean 0.005807
RMS 0.0009929
Angle (rad)

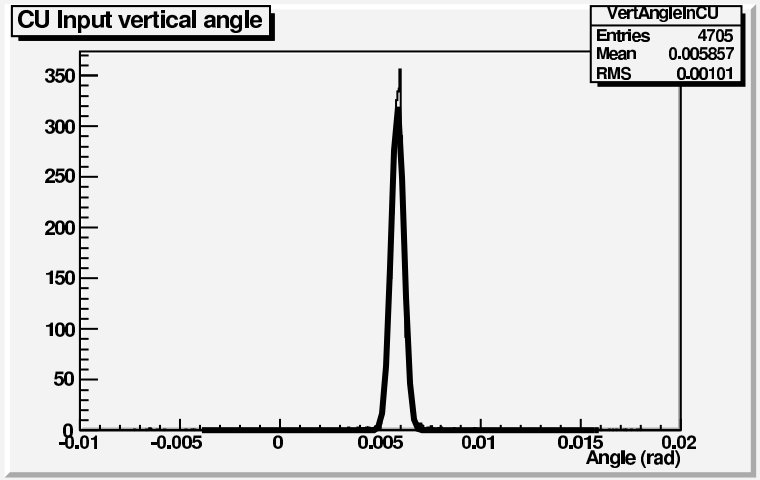

CU Input Beam Spot
SpotCoordInCU
Entries 4653
Mean x 211.6
Mean y 35.77
RMS x 8.161
RMS y 4.212
Vertical Position (mm)
Horizontal Position (mm)

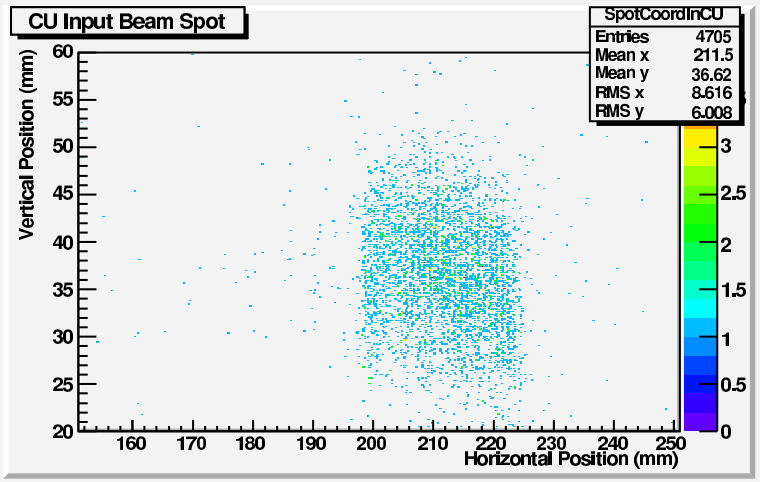

CU Input Beam Spot
SpotAngleInCU
Entries 4653
Mean x 0.005806
Mean y -0.005678
RMS x 0.0009497
RMS y 0.001122
Vertical Angle (rad)
Horizontal Angle (rad)

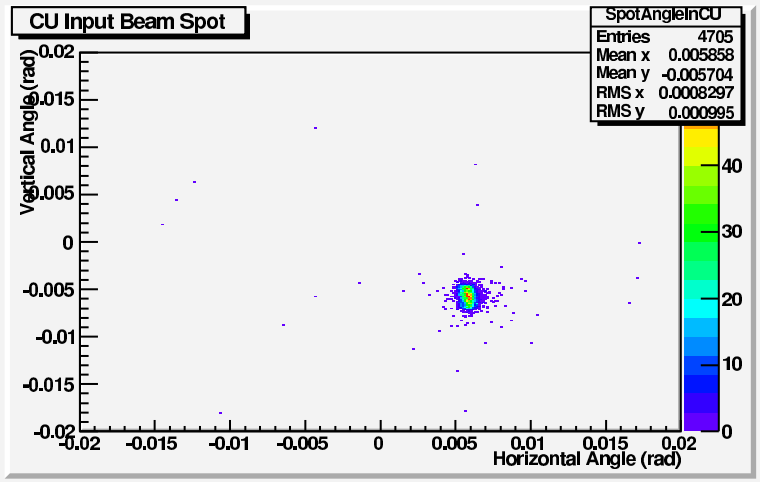

CU Input Horizontal coordinate
HorCoordInCU
Entries 4705
Mean 211.6
RMS 10.83
Position (mm)

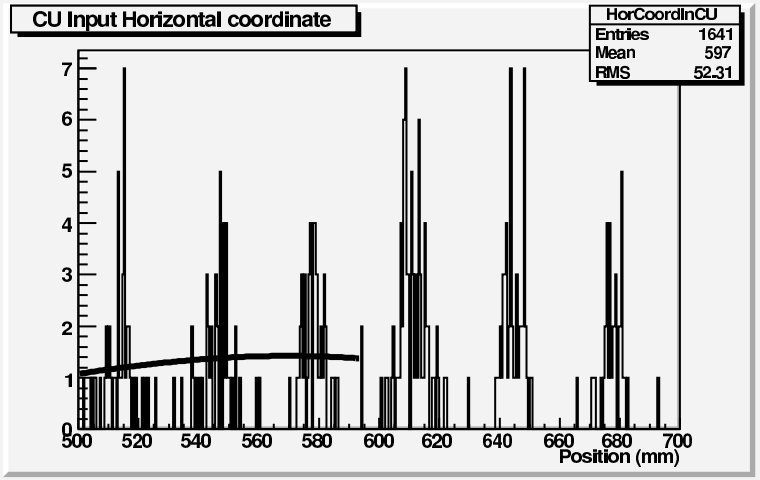

CU Input vertical coordinate
VertCoordInCU
Entries 4705
Mean 36.66
RMS 7.291
Position (mm)

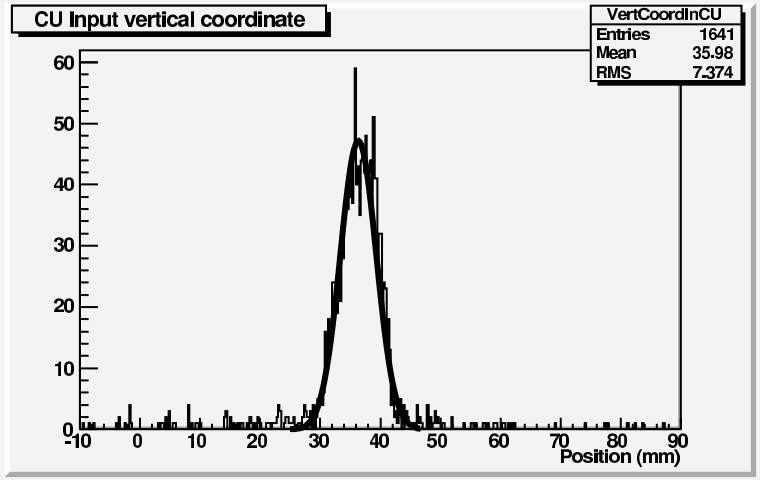

CU Input horizontal angle
HorAngleInCU
Entries 4705
Mean -0.005626
RMS 0.001343
Angle (rad)

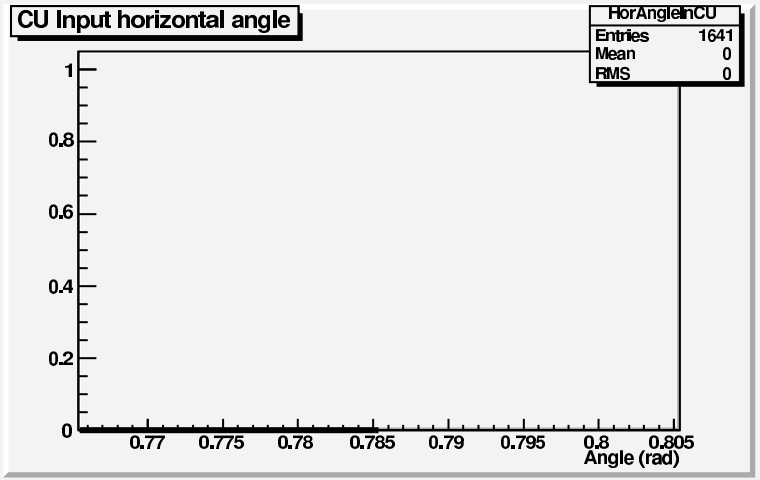

CU Input vertical angle
VertAngleInCU
Entries 4705
Mean 0.005857
RMS 0.00101
Angle (rad)

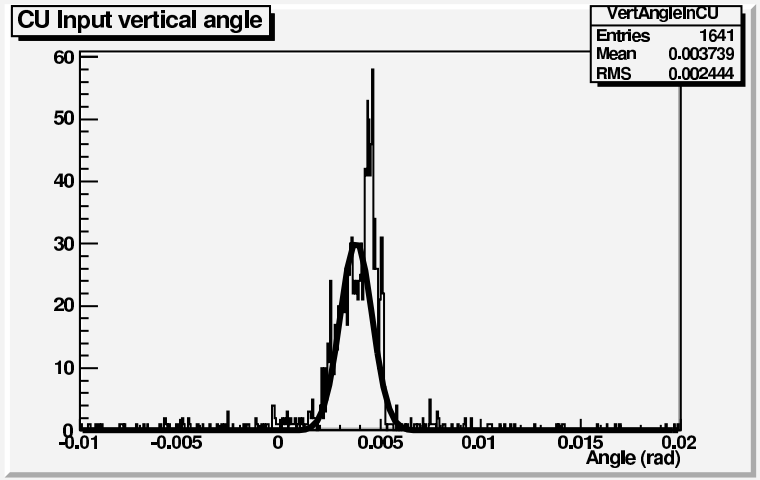

CU Input Beam Spot
SpotCoordInCU
Entries 4705
Mean x 211.5
Mean y 36.62
RMS x 8.616
RMS y 6.008
Vertical Position (mm)
Horizontal Position (mm)

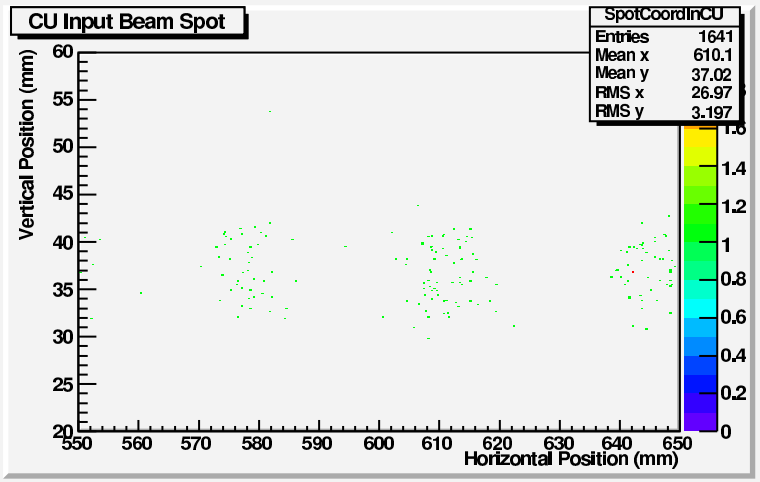

CU Input Beam Spot
SpotAngleInCU
Entries 4705
Mean x 0.005858
Mean y -0.005704
RMS x 0.0008297
RMS y 0.000995
Vertical Angle (rad)
Horizontal Angle (rad)

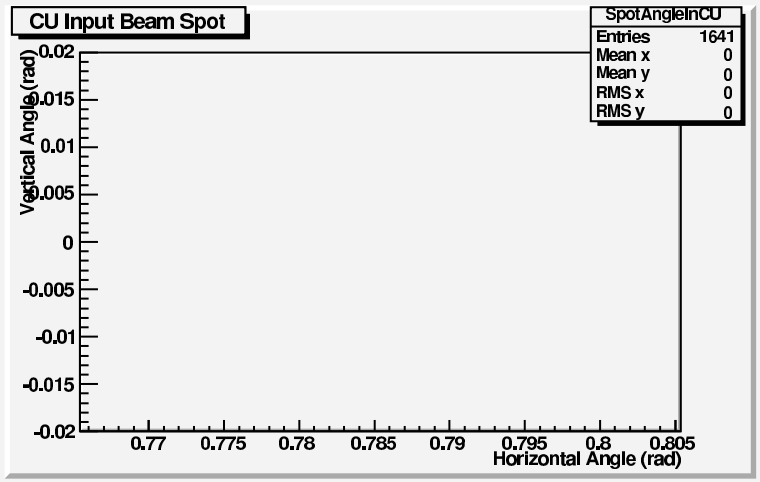

CU Input Horizontal coordinate
HorCoordInCU
Entries 1641
Mean 597
RMS 52.31
Position (mm)

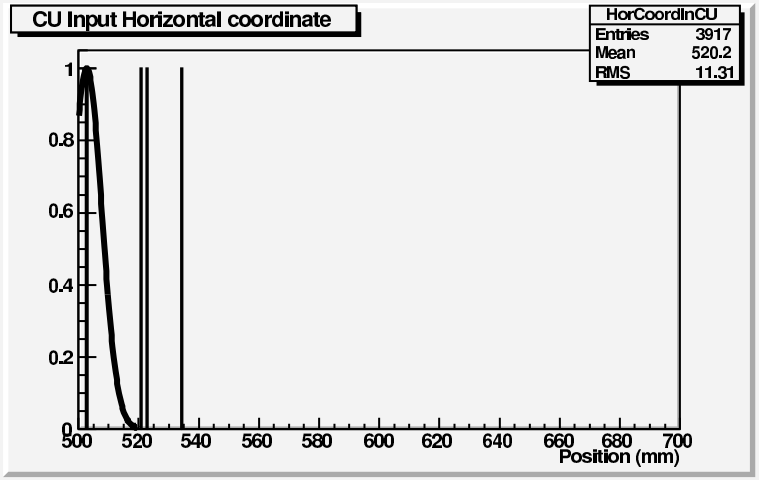

CU Input vertical coordinate
VertCoordInCU
Entries 1641
Mean 35.98
RMS 7.374
Position (mm)

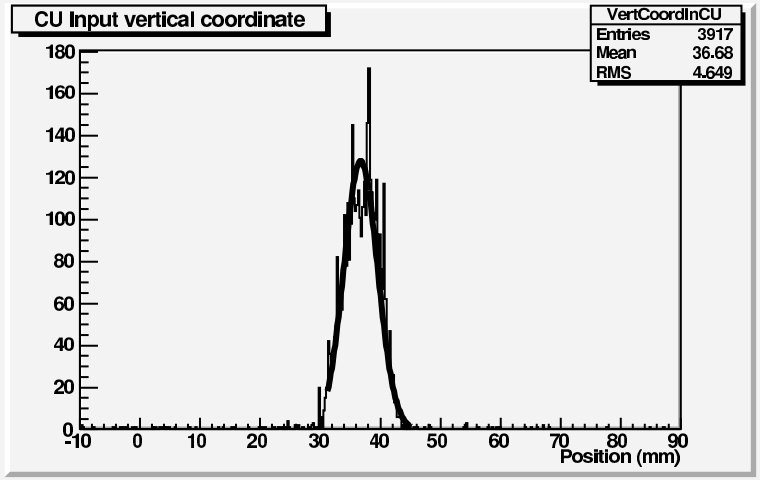

CU Input horizontal angle
HorAngleInCU
Entries 1641
Mean 0
RMS 0
Angle (rad)

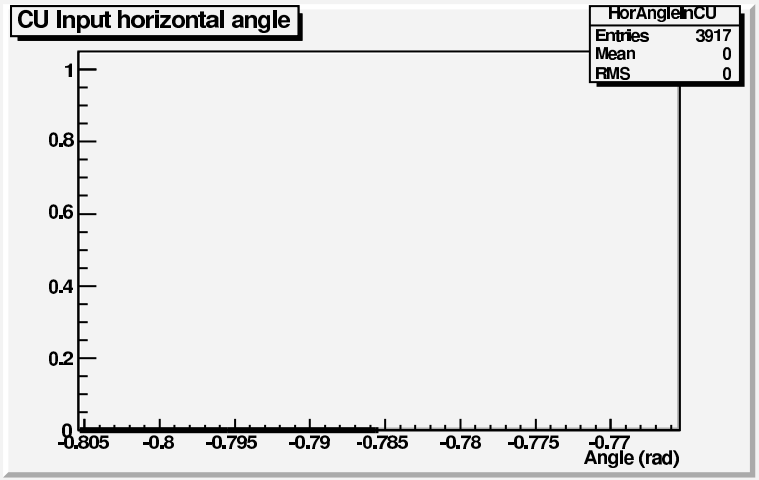

CU Input vertical angle
VertAngleInCU
Entries 1641
Mean 0.003739
RMS 0.002444
Angle (rad)

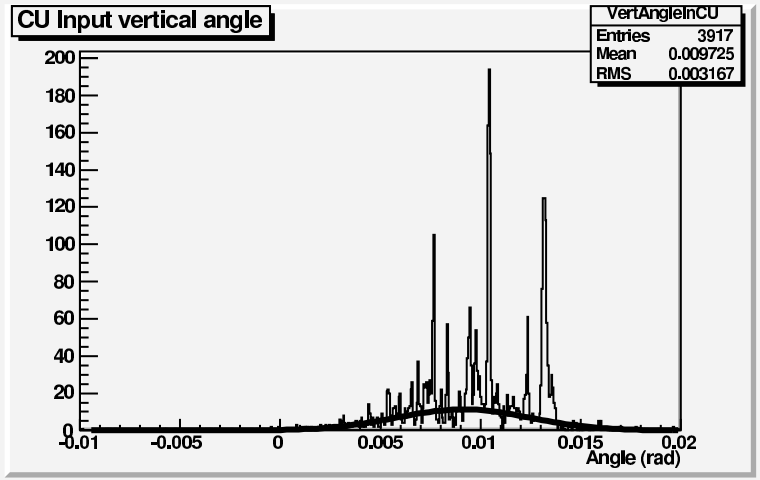

CU Input Beam Spot
SpotCoordInCU
Entries 1641
Mean x 610.1
Mean y 37.02
RMS x 26.97
RMS y 3.197
Vertical Position (mm)
Horizontal Position (mm)

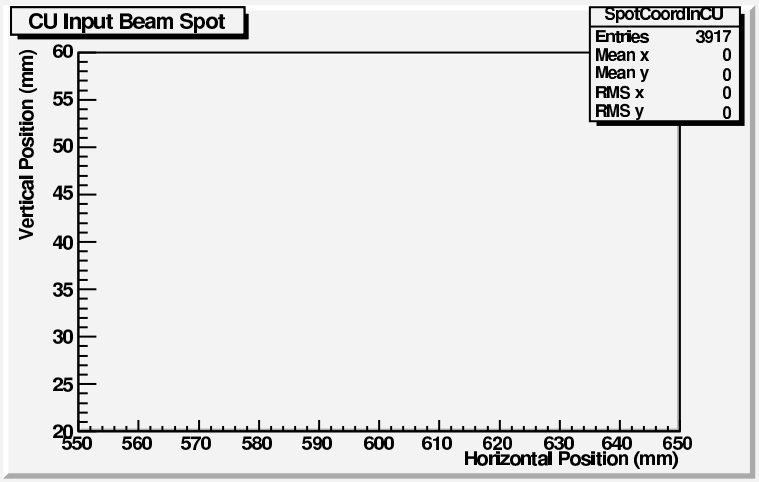

CU Input Beam Spot
SpotAngleInCU
Entries 1641
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

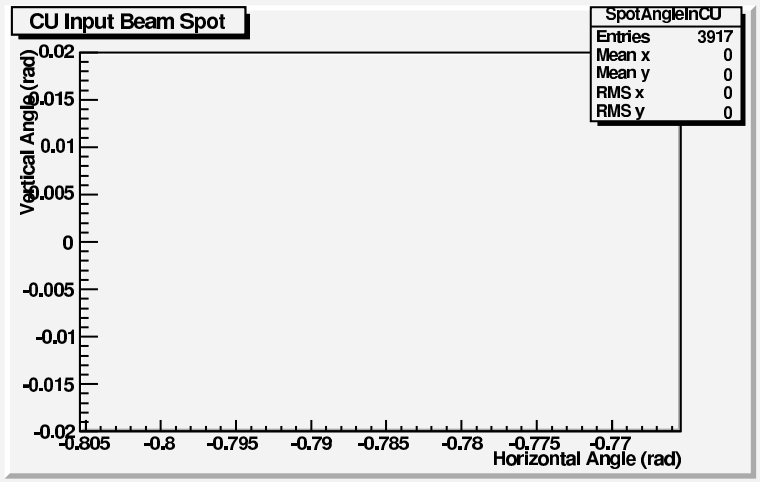

CU Input Horizontal coordinate
HorCoordInCU
Entries 3917
Mean 520.2
RMS 11.31
Position (mm)

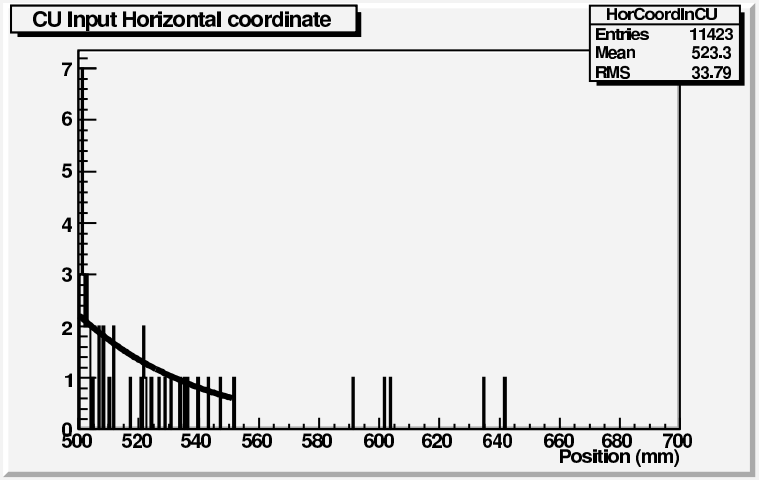

CU Input vertical coordinate
VertCoordInCU
Entries 3917
Mean 36.68
RMS 4.649
Position (mm)

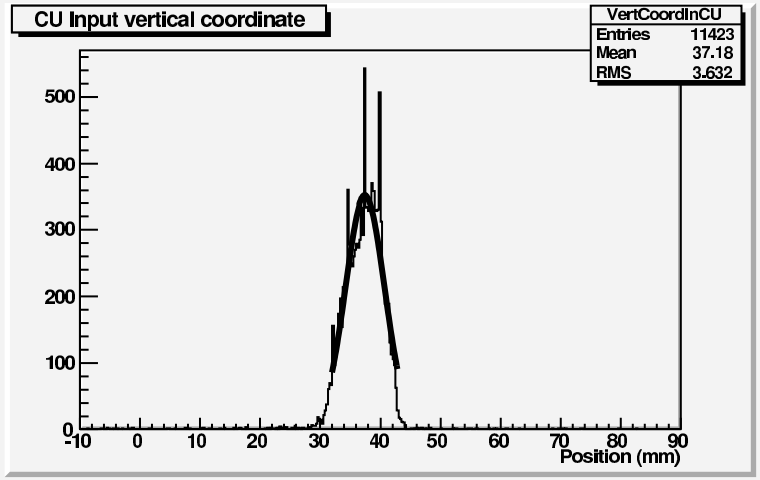

CU Input horizontal angle
HorAngleInCU
Entries 3917
Mean 0
RMS 0
Angle (rad)

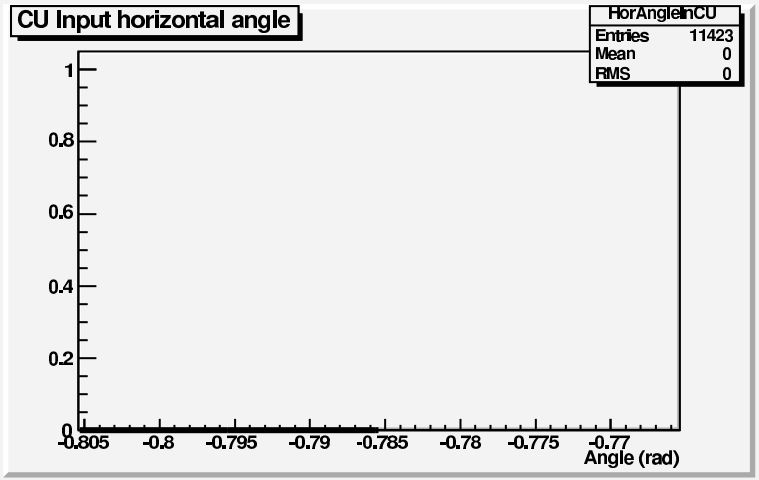

CU Input vertical angle
VertAngleInCU
Entries 3917
Mean 0.009725
RMS 0.003167
Angle (rad)

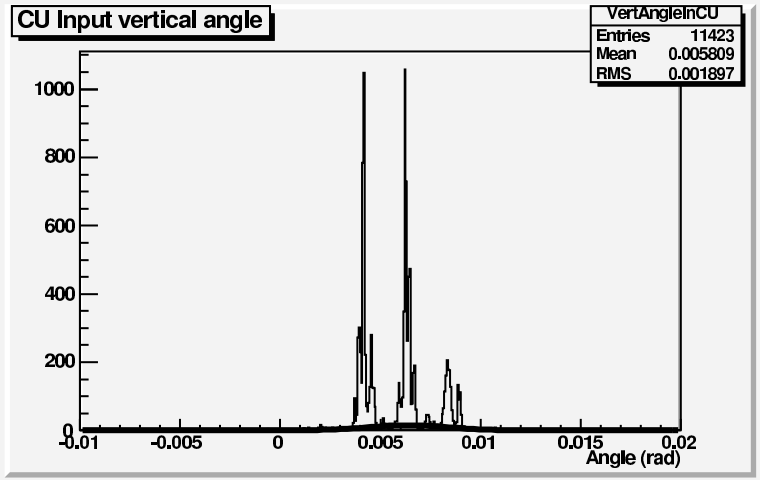

CU Input Beam Spot
SpotCoordInCU
Entries 3917
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Position (mm)
Horizontal Position (mm)

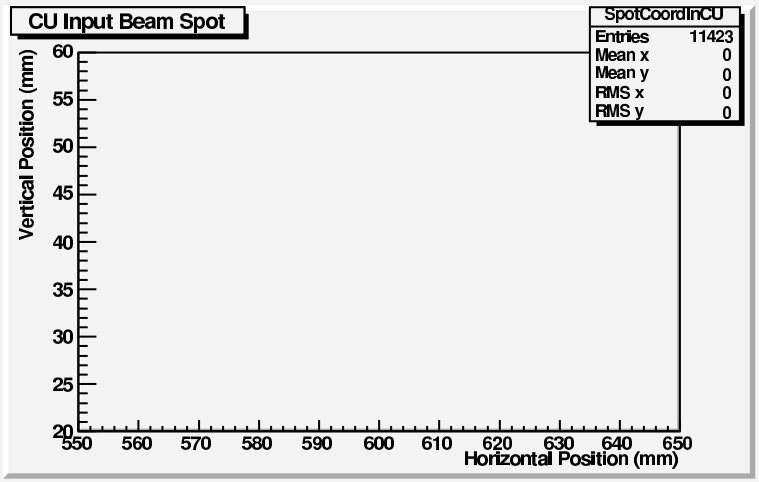

CU Input Beam Spot
SpotAngleInCU
Entries 3917
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

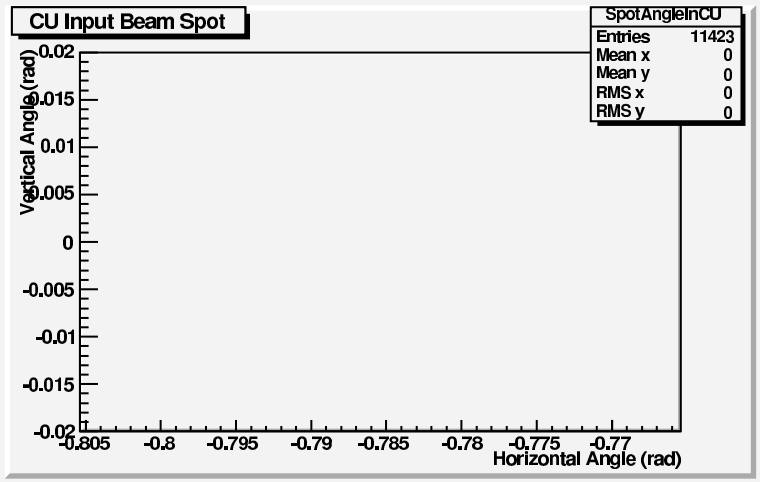

CU Input Horizontal coordinate
HorCoordInCU
Entries 11423
Mean 523.3
RMS 33.79
Position (mm)

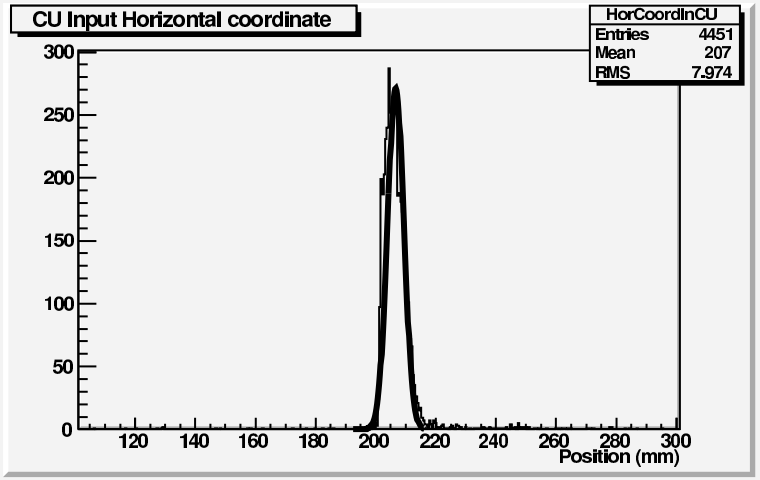

CU Input vertical coordinate
VertCoordInCU
Entries 11423
Mean 37.18
RMS 3.632
Position (mm)

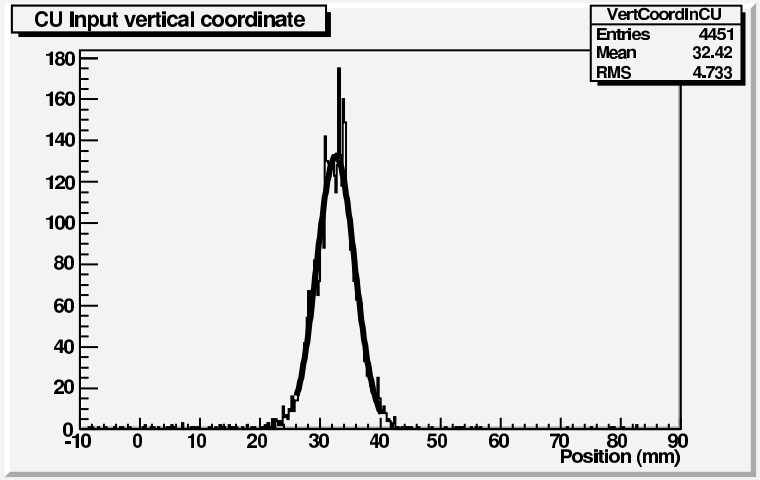

CU Input horizontal angle
HorAngleInCU
Entries 11423
Mean 0
RMS 0
Angle (rad)

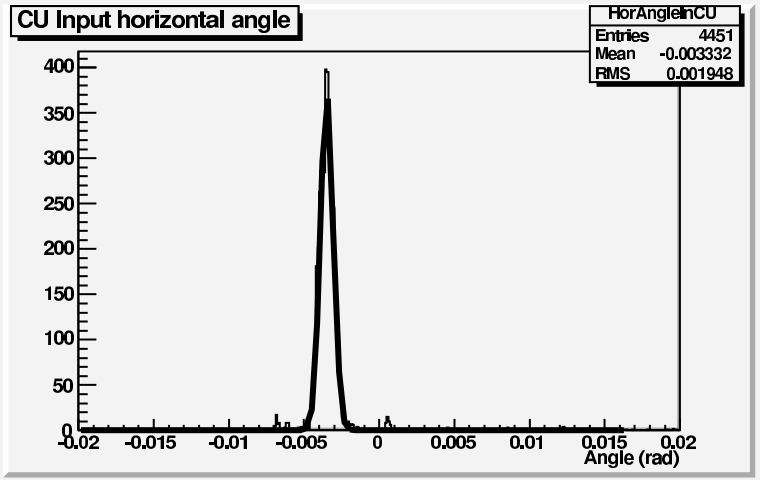

CU Input vertical angle
VertAngleInCU
Entries 11423
Mean 0.005809
RMS 0.001897
Angle (rad)

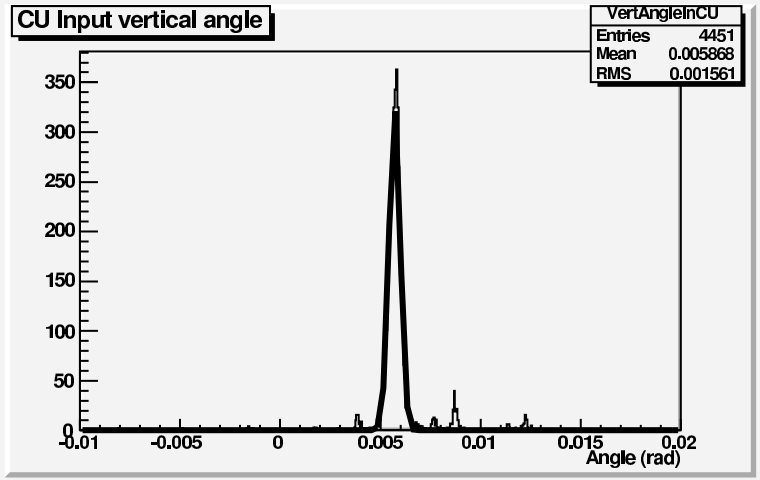

CU Input Beam Spot
SpotCoordInCU
Entries 11423
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Position (mm)
Horizontal Position (mm)

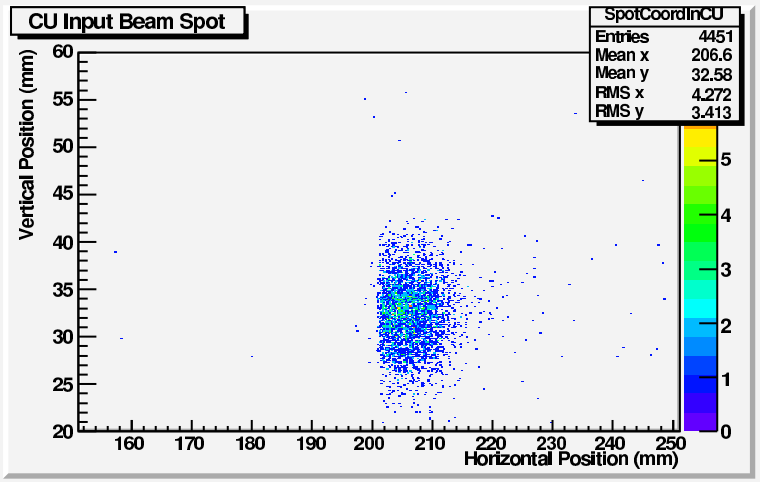

CU Input Beam Spot
SpotAngleInCU
Entries 11423
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

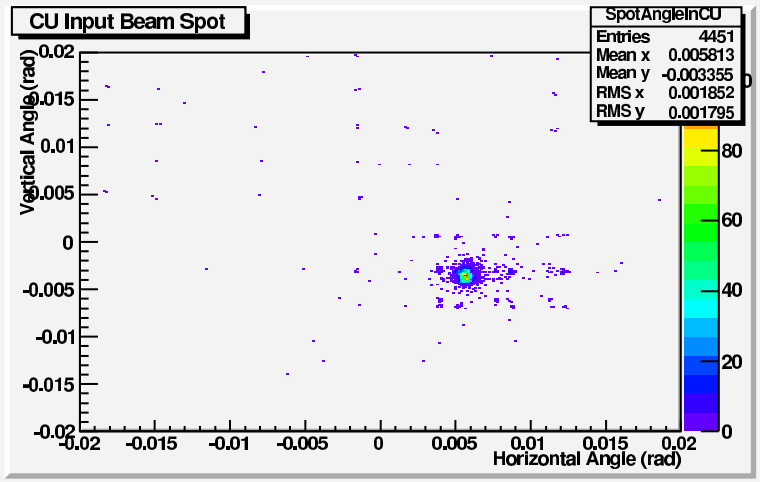

CU Input Horizontal coordinate
HorCoordInCU
Entries 4451
Mean 207
RMS 7.974
Position (mm)

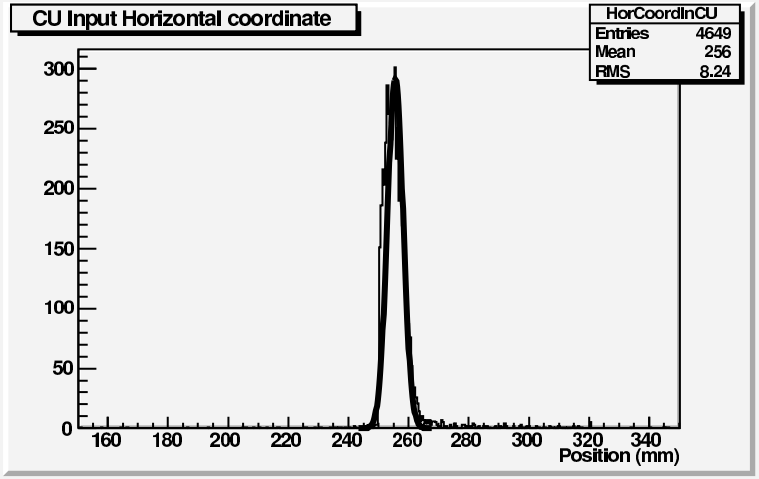

CU Input vertical coordinate
VertCoordInCU
Entries 4451
Mean 32.42
RMS 4.733
Position (mm)

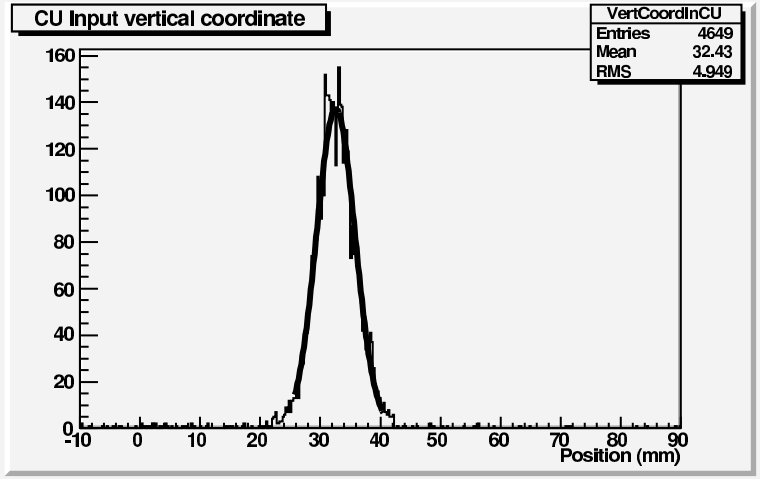

CU Input horizontal angle
HorAngleInCU
Entries 4451
Mean -0.003332
RMS 0.001948
Angle (rad)

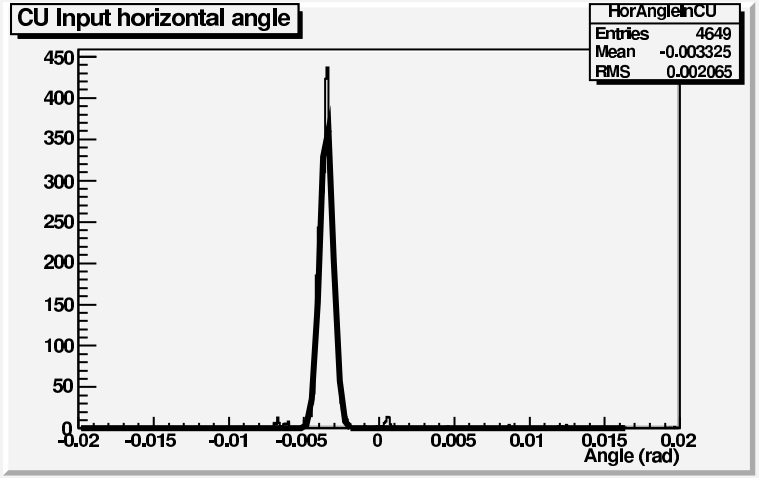

CU Input vertical angle
VertAngleInCU
Entries 4451
Mean 0.005868
RMS 0.001561
Angle (rad)

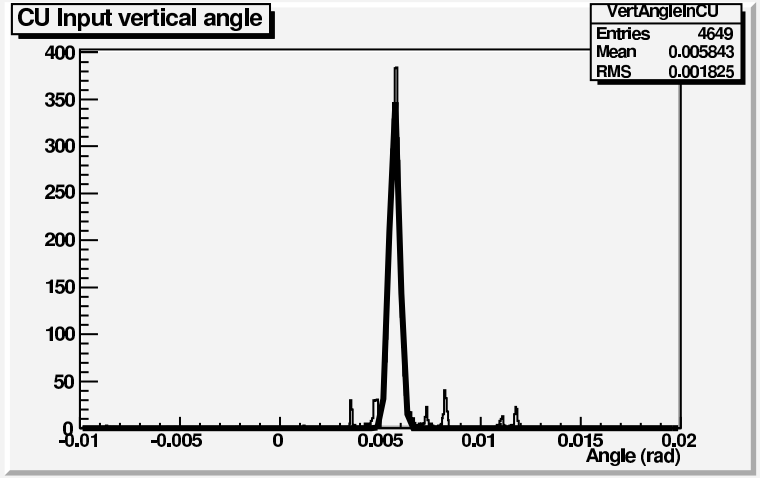

CU Input Beam Spot
SpotCoordInCU
Entries 4451
Mean x 206.6
Mean y 32.58
RMS x 4.272
RMS y 3.413
Vertical Position (mm)
Horizontal Position (mm)

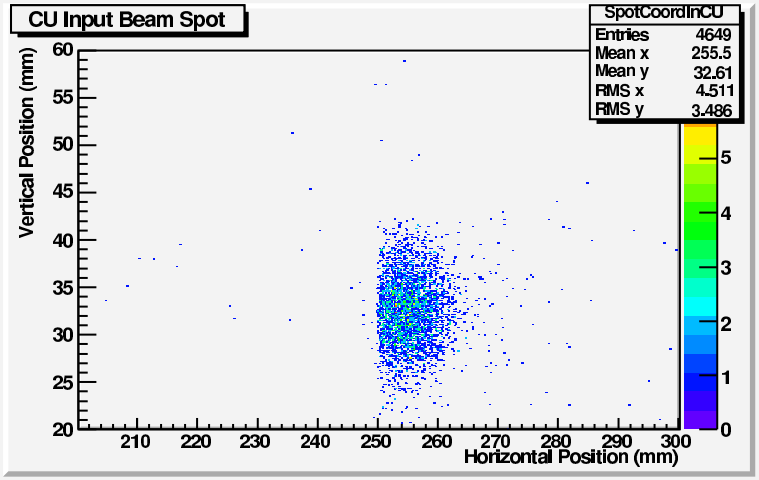

CU Input Beam Spot
SpotAngleInCU
Entries 4451
Mean x 0.005813
Mean y -0.003355
RMS x 0.001852
RMS y 0.001795
Vertical Angle (rad)
Horizontal Angle (rad)

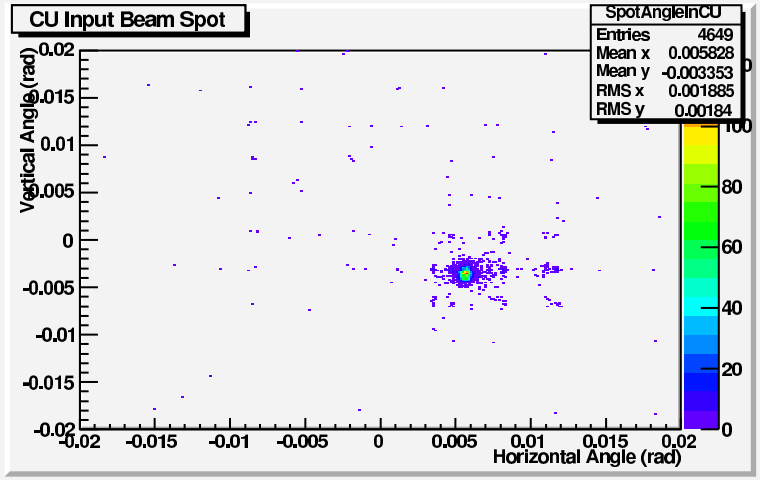

CU Input Horizontal coordinate
HorCoordInCU
Entries 4649
Mean 256
RMS 8.24
Position (mm)

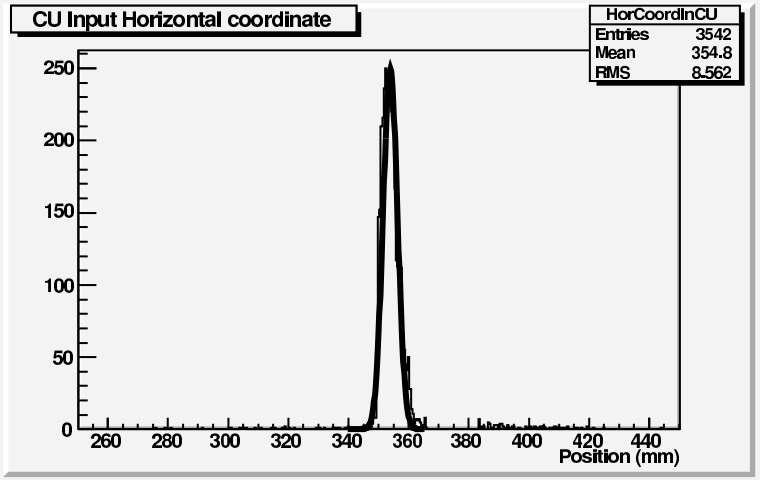

CU Input vertical coordinate
VertCoordInCU
Entries 4649
Mean 32.43
RMS 4.949
Position (mm)

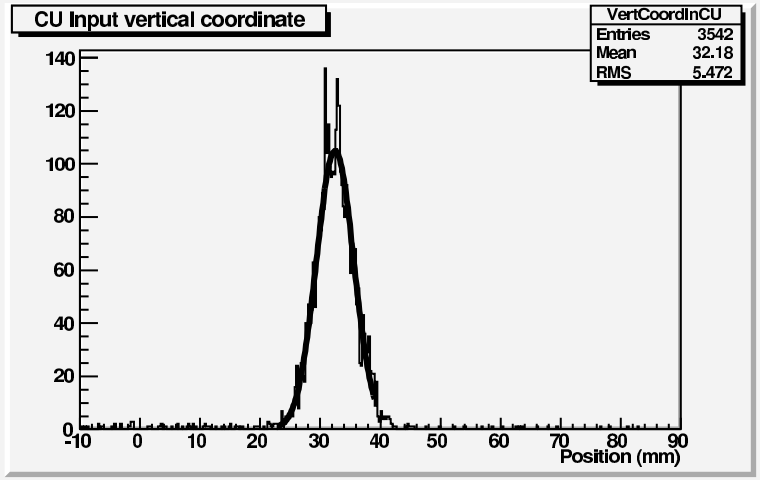

CU Input horizontal angle
HorAngleInCU
Entries 4649
Mean -0.003325
RMS 0.002065
Angle (rad)

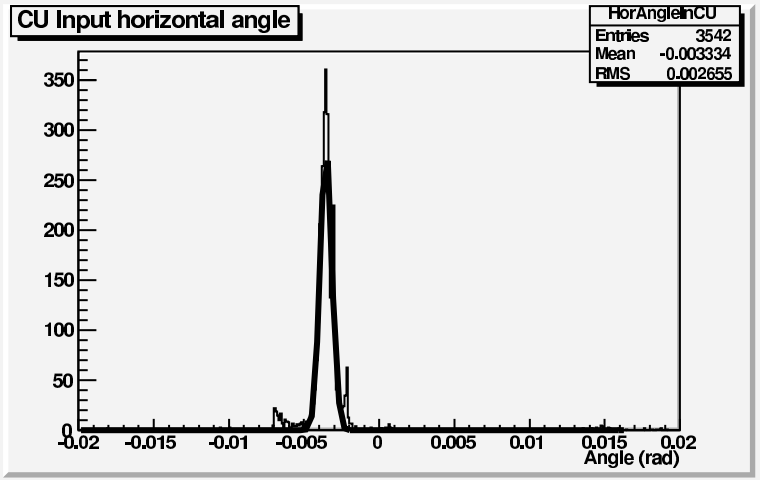

CU Input vertical angle
VertAngleInCU
Entries 4649
Mean 0.005843
RMS 0.001825
Angle (rad)

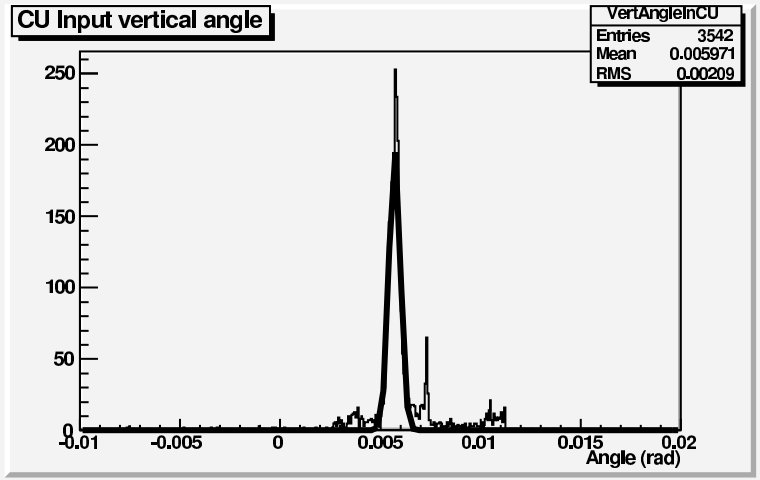

CU Input Beam Spot
SpotCoordInCU
Entries 4649
Mean x 255.5
Mean y 32.61
RMS x 4.511
RMS y 3.486
Vertical Position (mm)
Horizontal Position (mm)

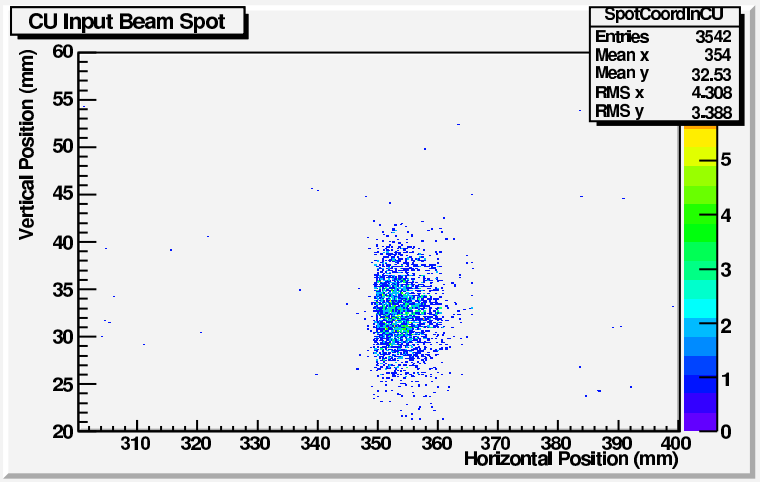

CU Input Beam Spot
SpotAngleInCU
Entries 4649
Mean x 0.005828
Mean y -0.003353
RMS x 0.001885
RMS y 0.00184
Vertical Angle (rad)
Horizontal Angle (rad)

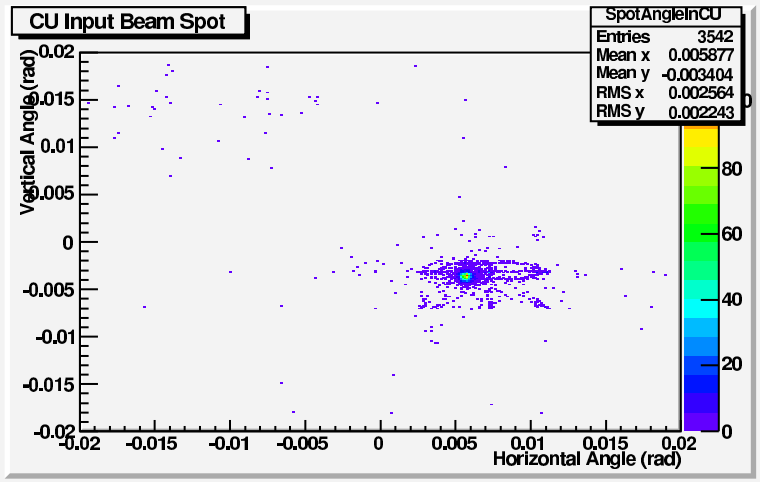

CU Input Horizontal coordinate
HorCoordInCU
Entries 3542
Mean 354.8
RMS 8.562
Position (mm)

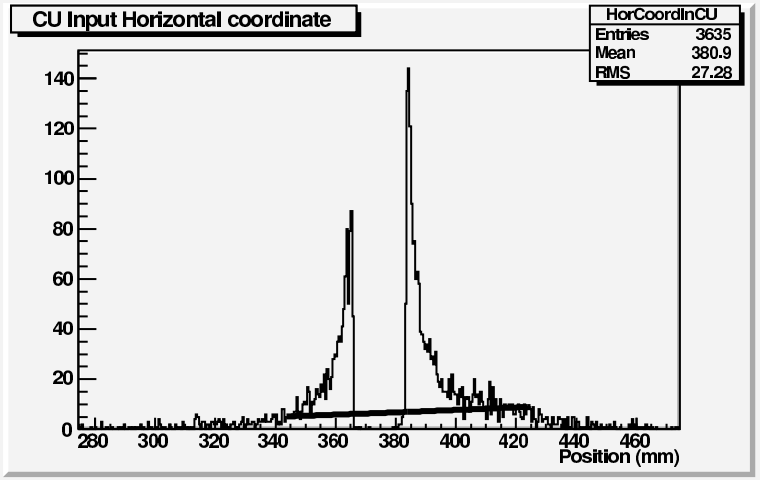

CU Input vertical coordinate
VertCoordInCU
Entries 3542
Mean 32.18
RMS 5.472
Position (mm)

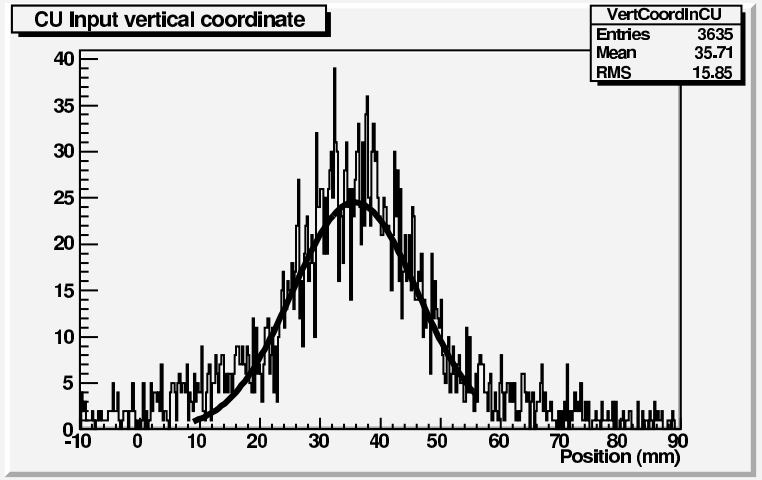

CU Input horizontal angle
HorAngleInCU
Entries 3542
Mean -0.003334
RMS 0.002655
Angle (rad)

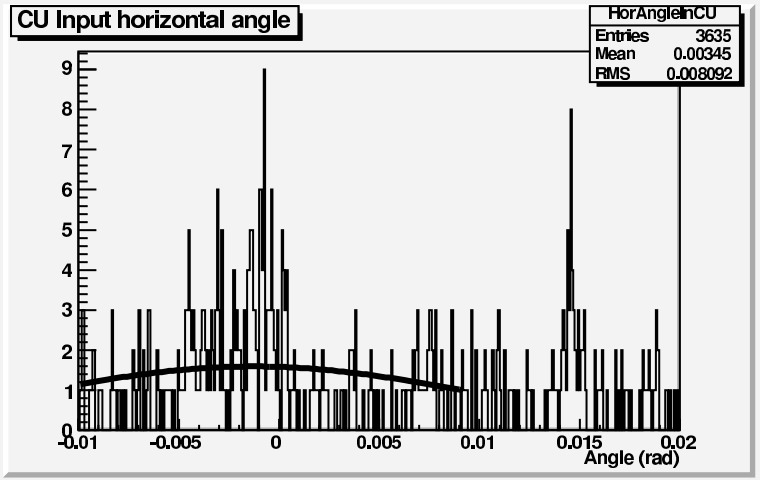

CU Input vertical angle
VertAngleInCU
Entries 3542
Mean 0.005971
RMS 0.00209
Angle (rad)

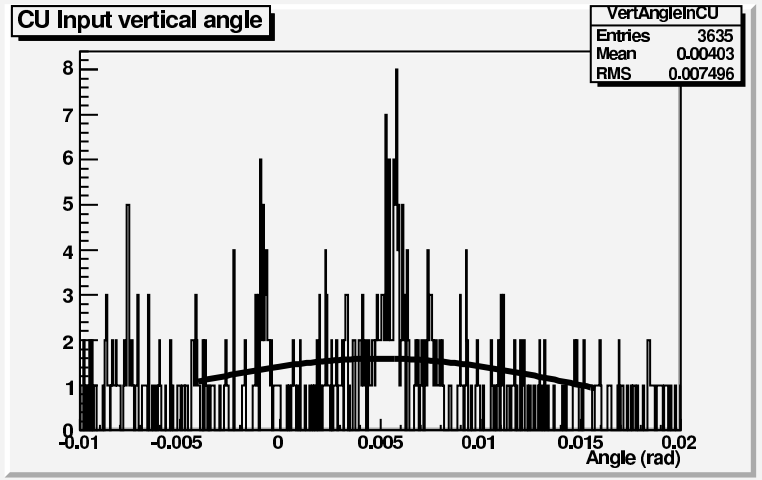

CU Input Beam Spot
SpotCoordInCU
Entries 3542
Mean x 354
Mean y 32.53
RMS x 4.308
RMS y 3.388
Vertical Position (mm)
Horizontal Position (mm)

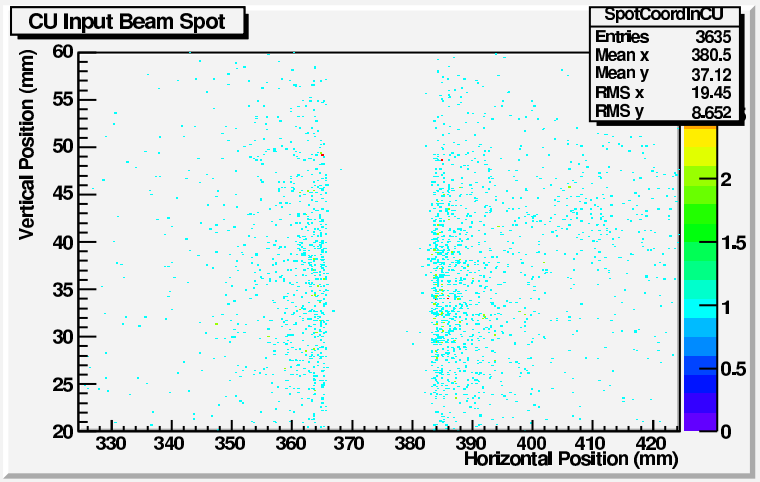

CU Input Beam Spot
SpotAngleInCU
Entries 3542
Mean x 0.005877
Mean y -0.003404
RMS x 0.002564
RMS y 0.002243
Vertical Angle (rad)
Horizontal Angle (rad)

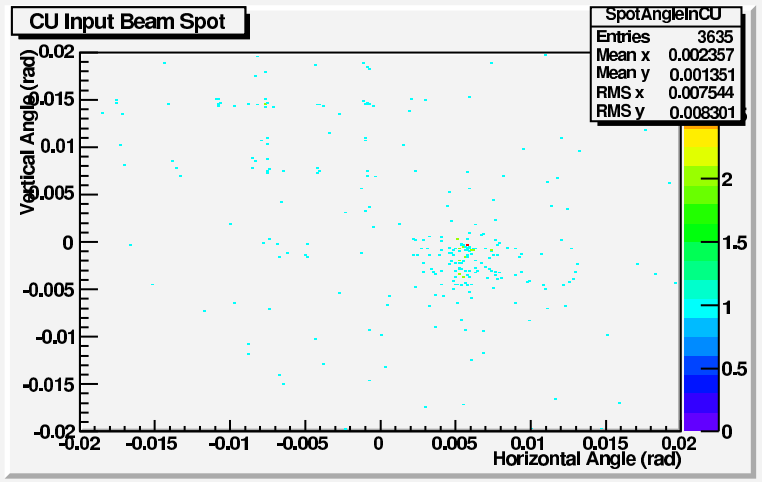

CU Input Horizontal coordinate
HorCoordInCU
Entries 3635
Mean 380.9
RMS 27.28
Position (mm)

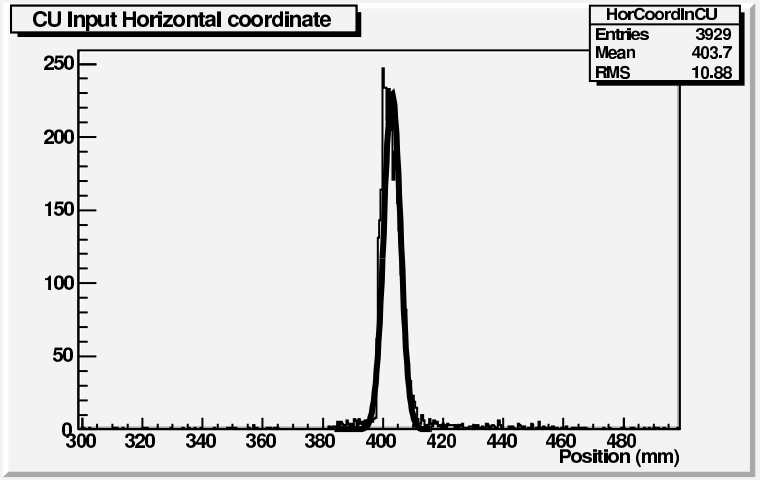

CU Input vertical coordinate
VertCoordInCU
Entries 3635
Mean 35.71
RMS 15.85
Position (mm)

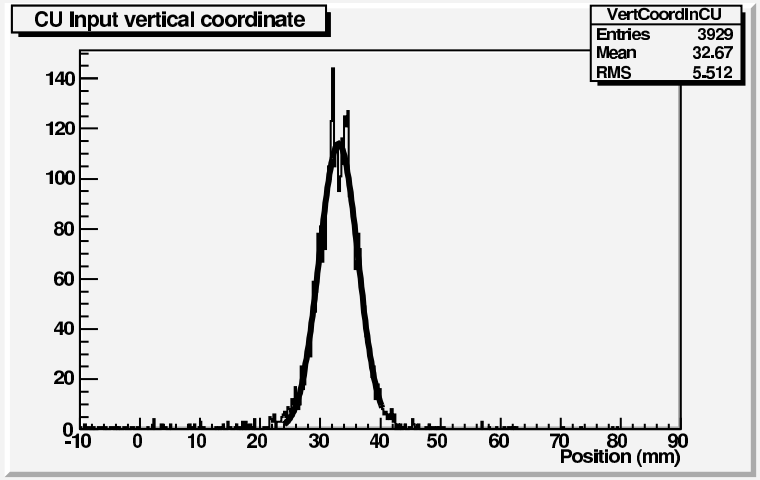

CU Input horizontal angle
HorAngleInCU
Entries 3635
Mean 0.00345
RMS 0.008092
Angle (rad)

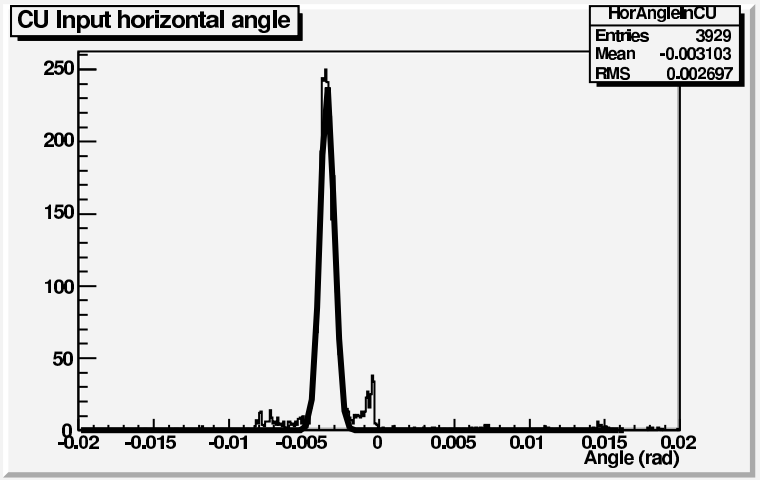

CU Input vertical angle
VertAngleInCU
Entries 3635
Mean 0.00403
RMS 0.007496
Angle (rad)

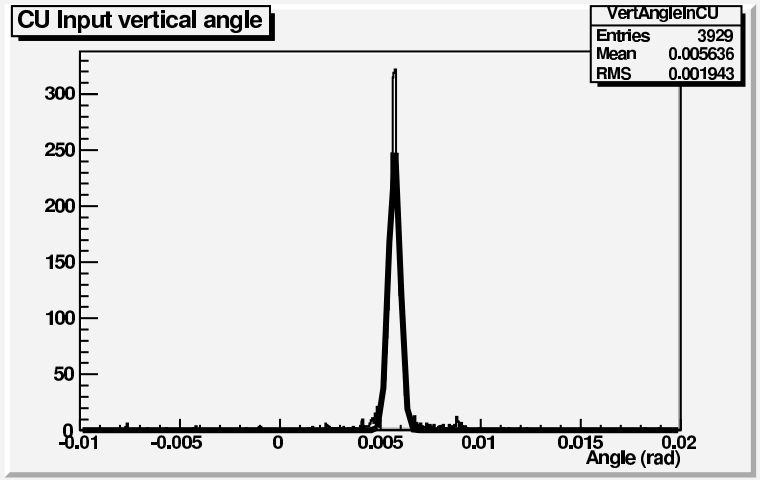

CU Input Beam Spot
SpotCoordInCU
Entries 3635
Mean x 380.5
Mean y 37.12
RMS x 19.45
RMS y 8.652
Vertical Position (mm)
Horizontal Position (mm)

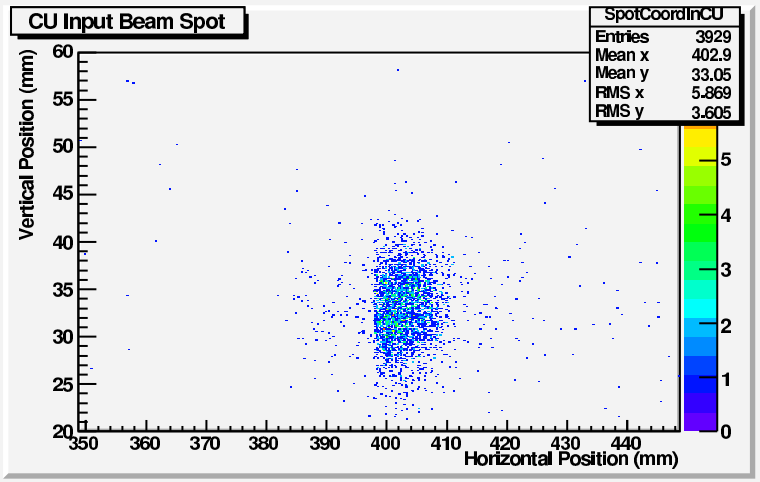

CU Input Beam Spot
SpotAngleInCU
Entries 3635
Mean x 0.002357
Mean y 0.001351
RMS x 0.007544
RMS y 0.008301
Vertical Angle (rad)
Horizontal Angle (rad)

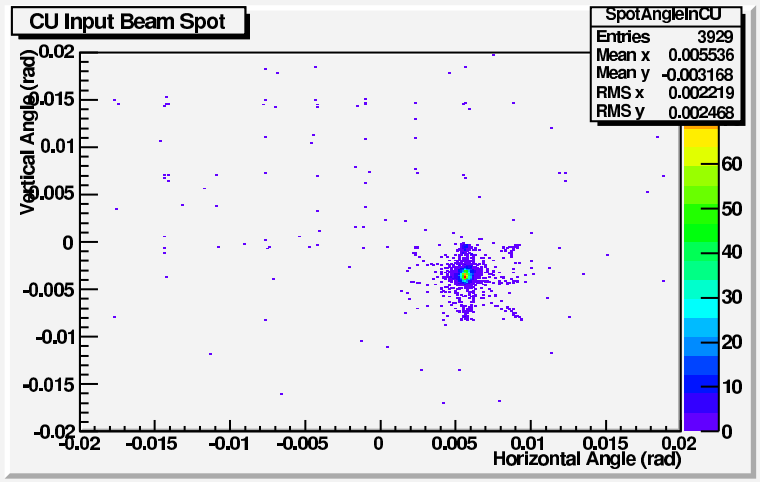

CU Input Horizontal coordinate
HorCoordInCU
Entries 3929
Mean 403.7
RMS 10.88
Position (mm)

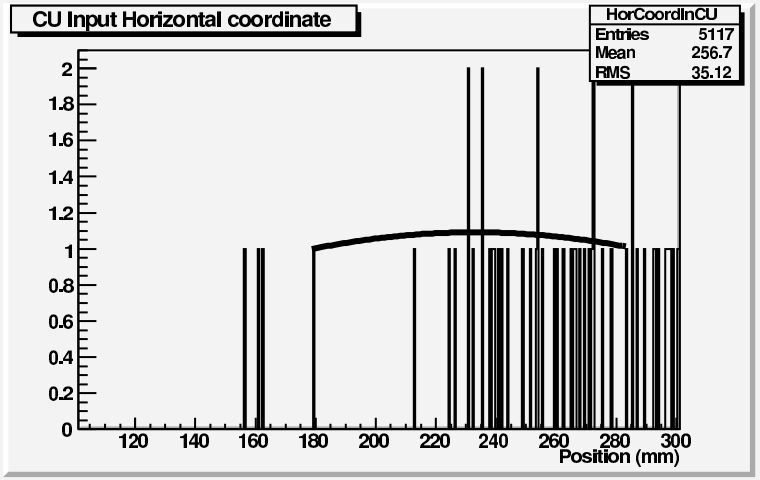

CU Input vertical coordinate
VertCoordInCU
Entries 3929
Mean 32.67
RMS 5.512
Position (mm)

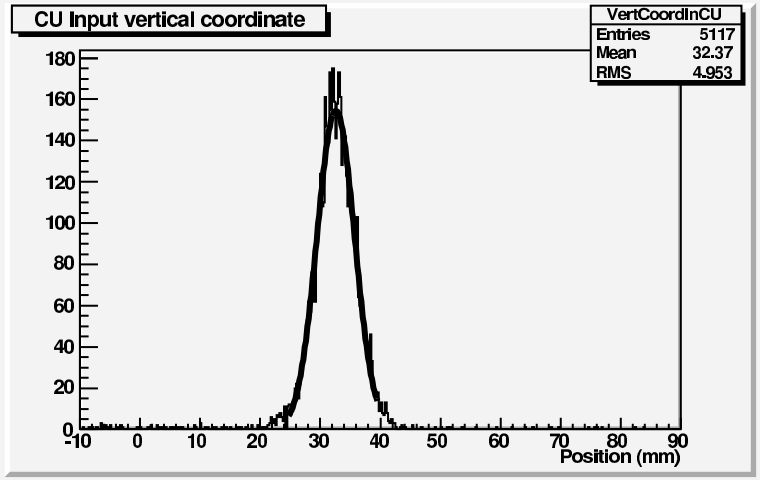

CU Input horizontal angle
HorAngleInCU
Entries 3929
Mean -0.003103
RMS 0.002697
Angle (rad)

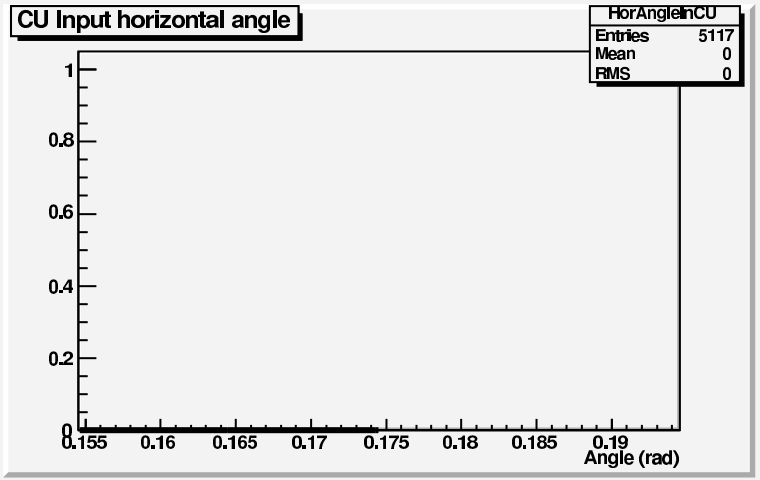

CU Input vertical angle
VertAngleInCU
Entries 3929
Mean 0.005636
RMS 0.001943
Angle (rad)

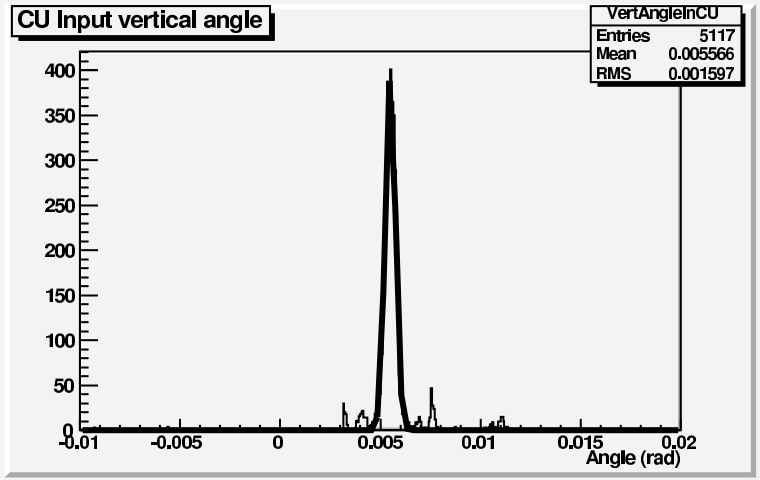

CU Input Beam Spot
SpotCoordInCU
Entries 3929
Mean x 402.9
Mean y 33.05
RMS x 5.869
RMS y 3.605
Vertical Position (mm)
Horizontal Position (mm)

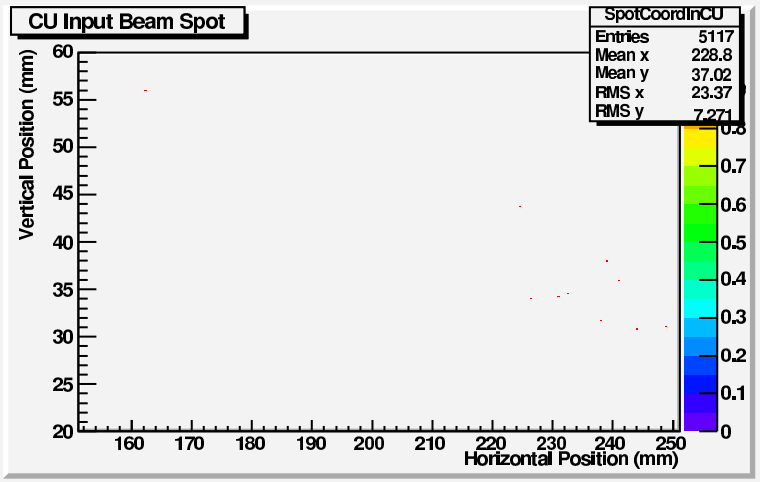

CU Input Beam Spot
SpotAngleInCU
Entries 3929
Mean x 0.005536
Mean y -0.003168
RMS x 0.002219
RMS y 0.002468
Vertical Angle (rad)
Horizontal Angle (rad)

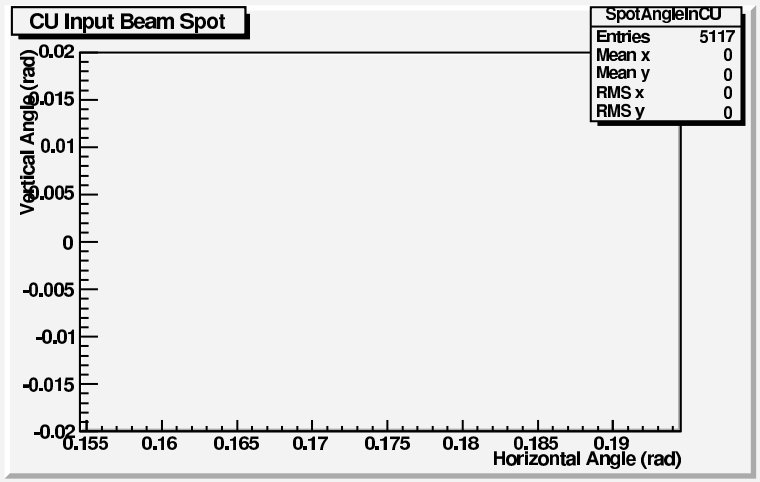

CU Input Horizontal coordinate
HorCoordInCU
Entries 5117
Mean 256.7
RMS 35.12
Position (mm)

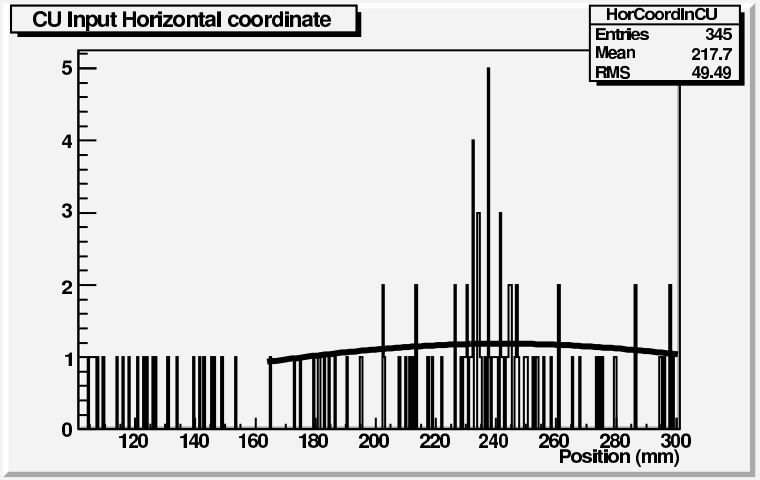

CU Input vertical coordinate
VertCoordInCU
Entries 5117
Mean 32.37
RMS 4.953
Position (mm)

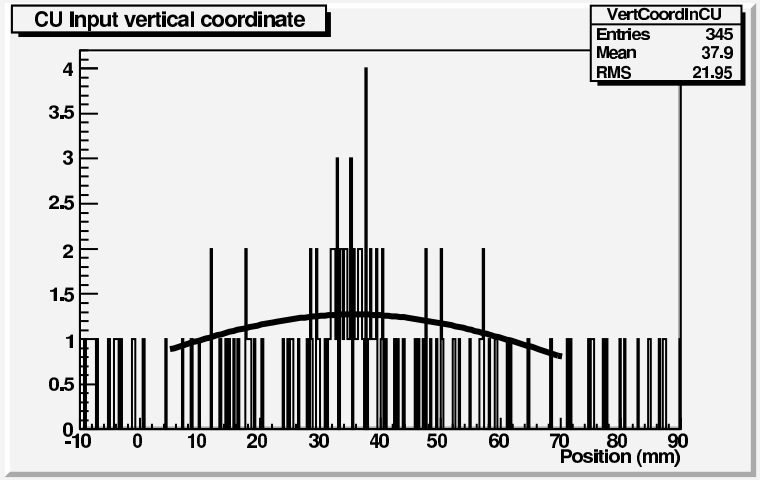

CU Input horizontal angle
HorAngleInCU
Entries 5117
Mean 0
RMS 0
Angle (rad)

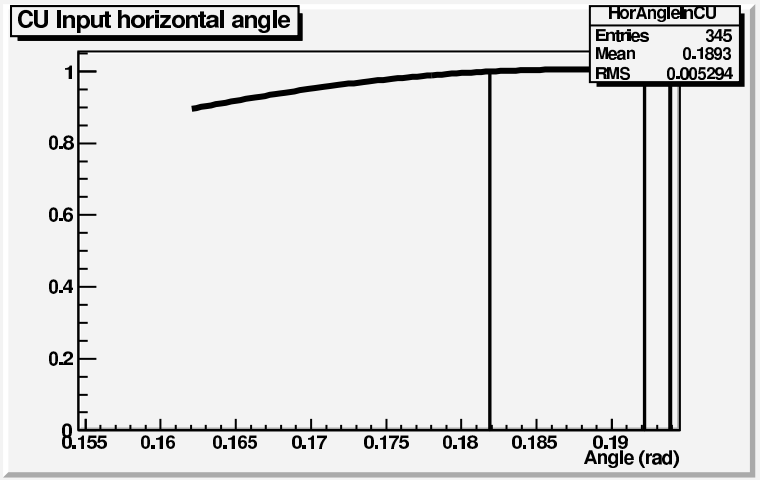

CU Input vertical angle
VertAngleInCU
Entries 5117
Mean 0.005566
RMS 0.001597
Angle (rad)

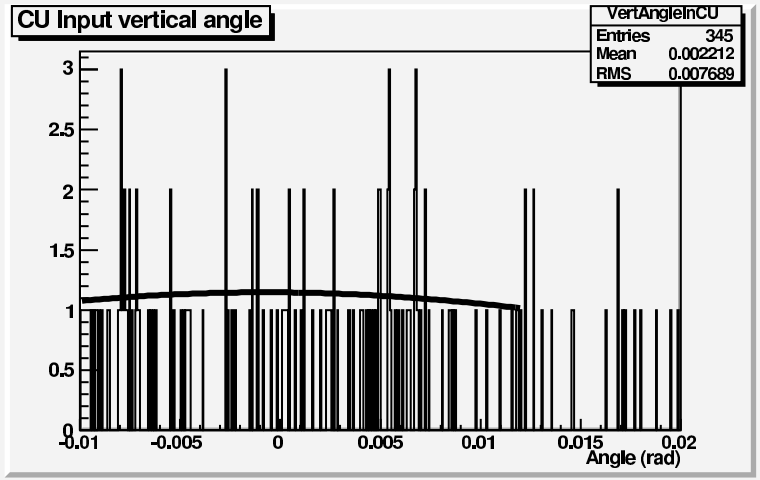

CU Input Beam Spot
SpotCoordInCU
Entries 5117
Mean x 228.8
Mean y 37.02
RMS x 23.37
RMS y 7.271
Vertical Position (mm)
Horizontal Position (mm)

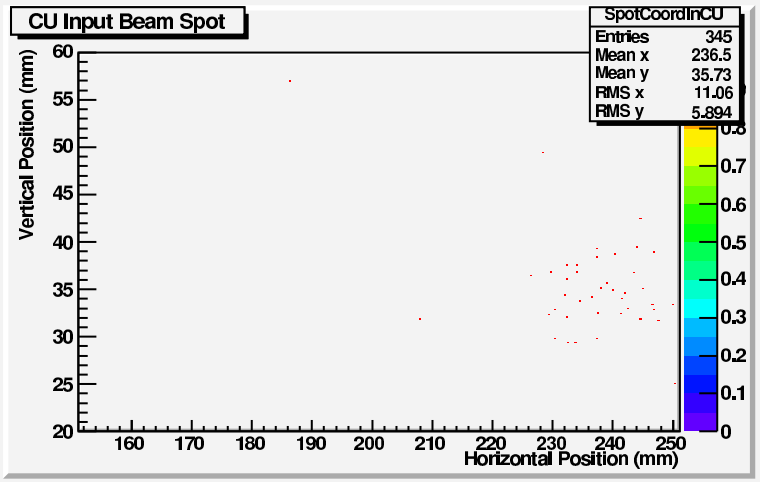

CU Input Beam Spot
SpotAngleInCU
Entries 5117
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

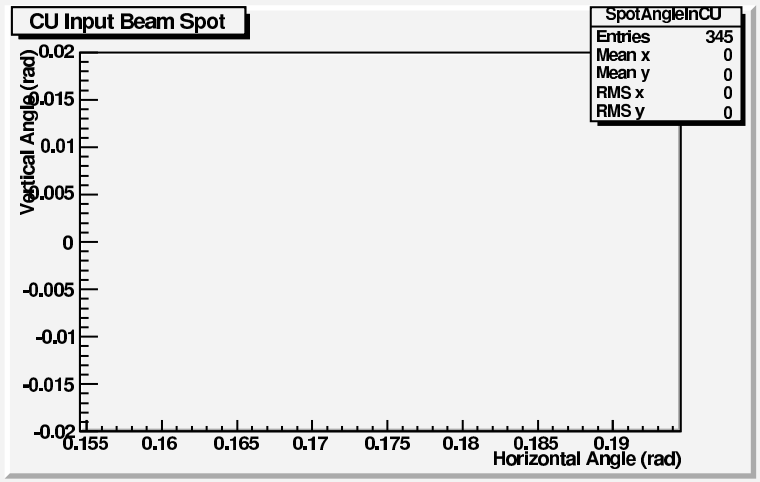

CU Input Horizontal coordinate
HorCoordInCU
Entries 345
Mean 217.7
RMS 49.49
Position (mm)

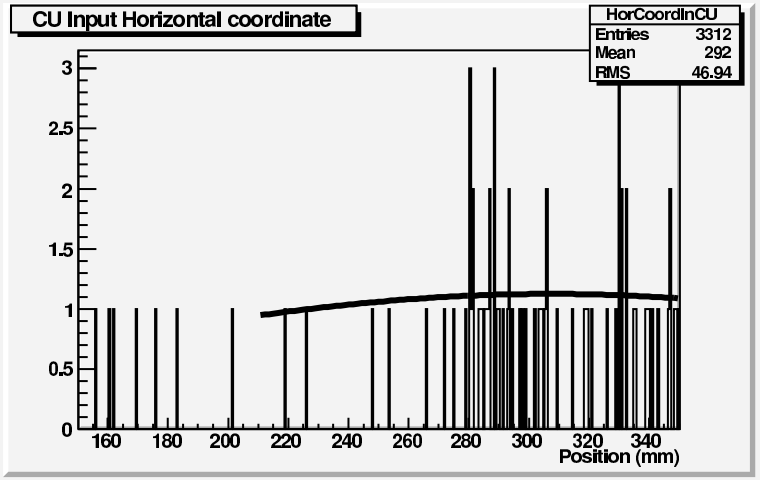

CU Input vertical coordinate
VertCoordInCU
Entries 345
Mean 37.9
RMS 21.95
Position (mm)

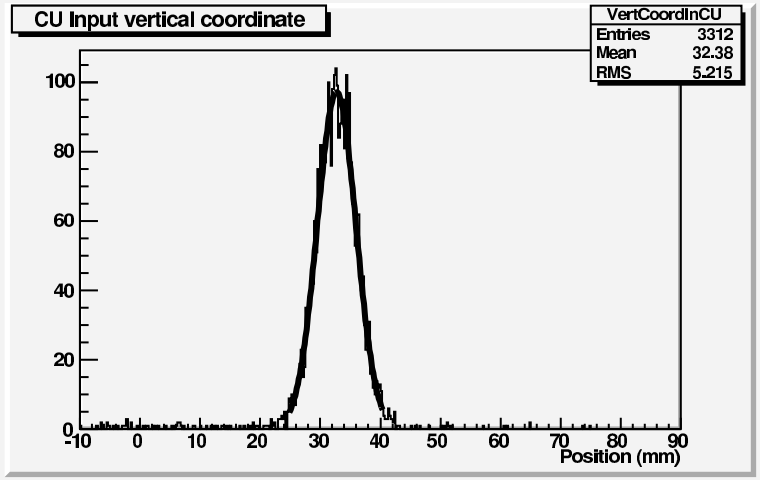

CU Input horizontal angle
HorAngleInCU
Entries 345
Mean 0.1893
RMS 0.005294
Angle (rad)

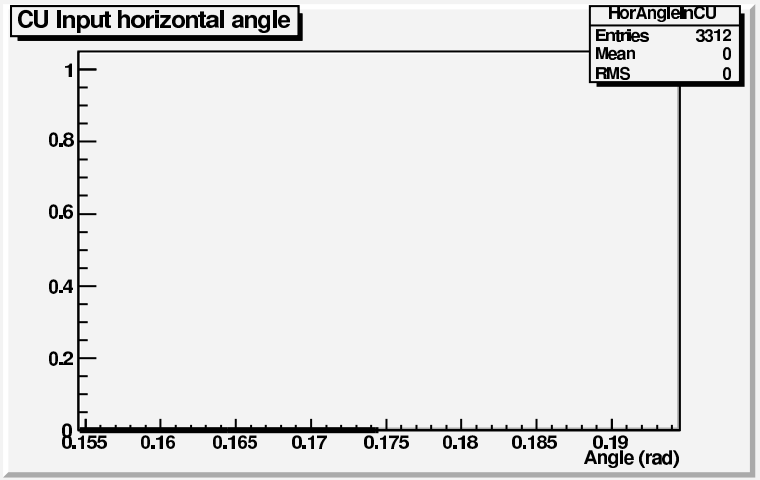

CU Input vertical angle
VertAngleInCU
Entries 345
Mean 0.002212
RMS 0.007689
Angle (rad)

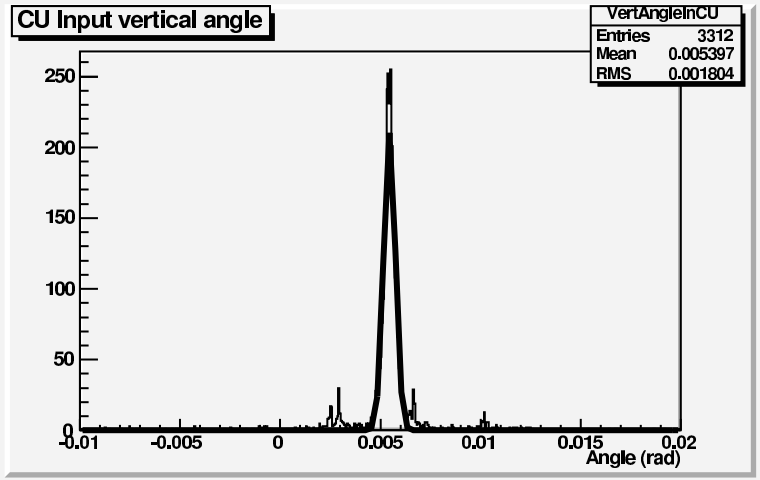

CU Input Beam Spot
SpotCoordInCU
Entries 345
Mean x 236.5
Mean y 35.73
RMS x 11.06
RMS y 5.894
Vertical Position (mm)
Horizontal Position (mm)

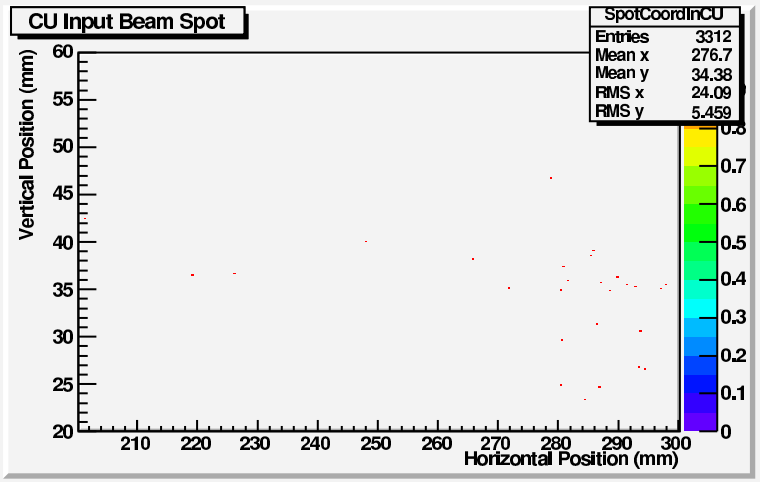

CU Input Beam Spot
SpotAngleInCU
Entries 345
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

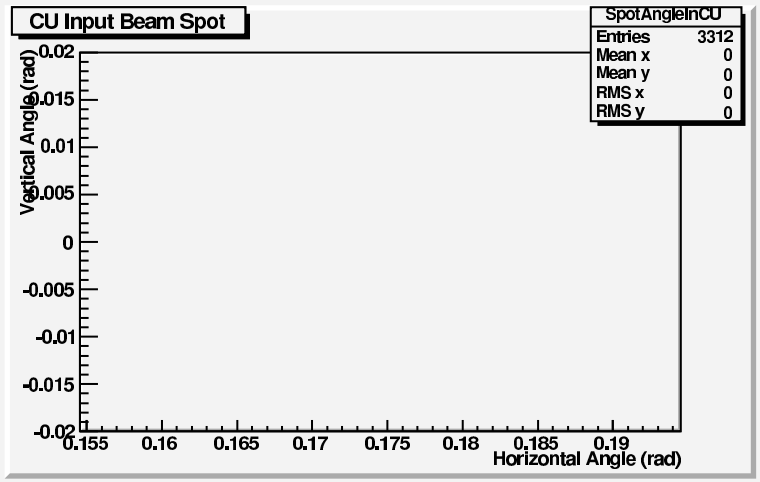

CU Input Horizontal coordinate
HorCoordInCU
Entries 3312
Mean 292
RMS 46.94
Position (mm)

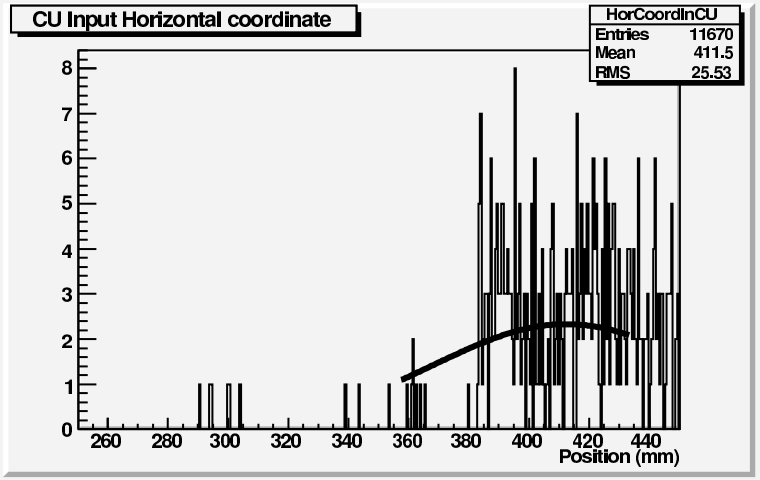

CU Input vertical coordinate
VertCoordInCU
Entries 3312
Mean 32.38
RMS 5.215
Position (mm)

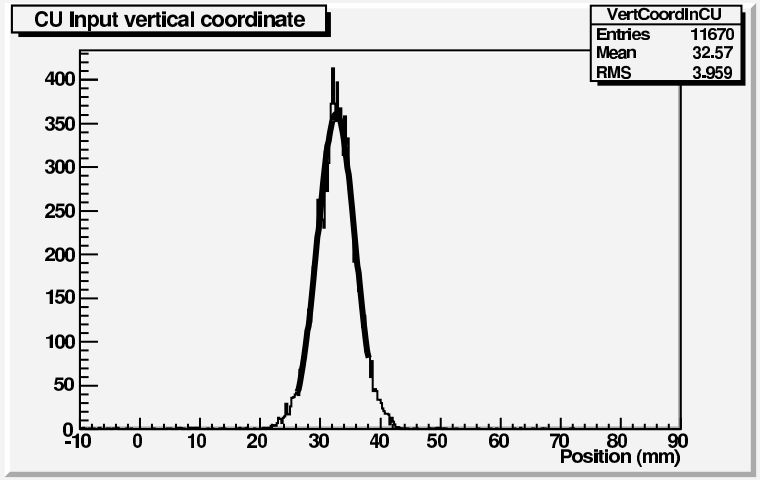

CU Input horizontal angle
HorAngleInCU
Entries 3312
Mean 0
RMS 0
Angle (rad)

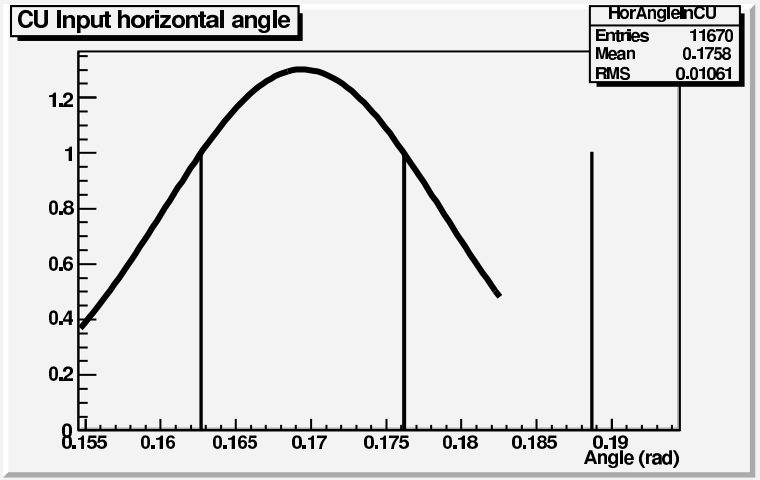

CU Input vertical angle
VertAngleInCU
Entries 3312
Mean 0.005397
RMS 0.001804
Angle (rad)

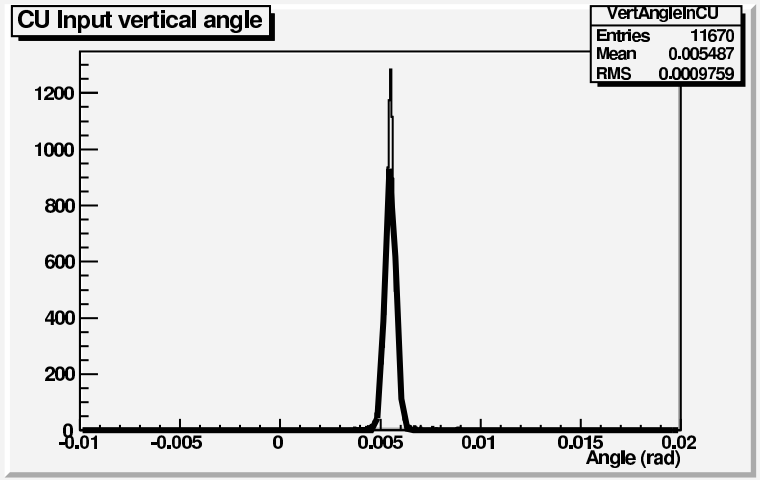

CU Input Beam Spot
SpotCoordInCU
Entries 3312
Mean x 276.7
Mean y 34.38
RMS x 24.09
RMS y 5.459
Vertical Position (mm)
Horizontal Position (mm)

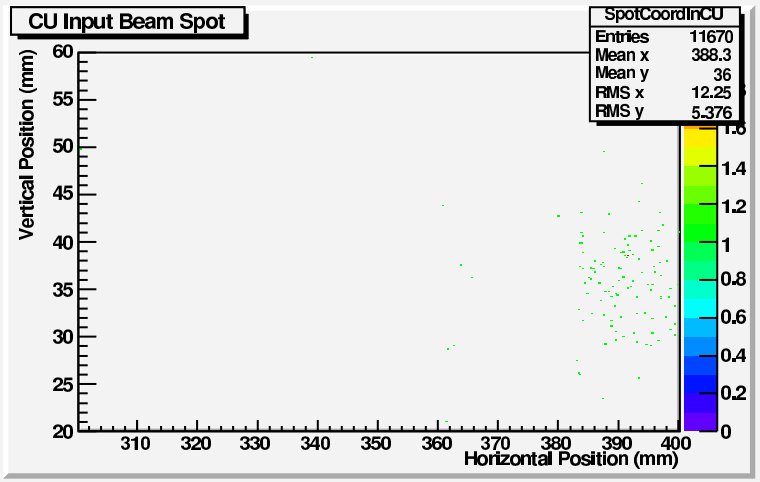

CU Input Beam Spot
SpotAngleInCU
Entries 3312
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

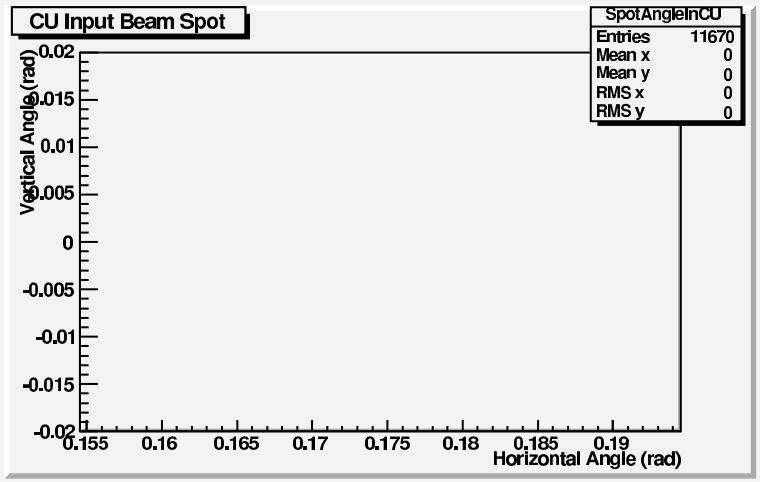

CU Input Horizontal coordinate
HorCoordInCU
Entries 11670
Mean 411.5
RMS 25.53
Position (mm)

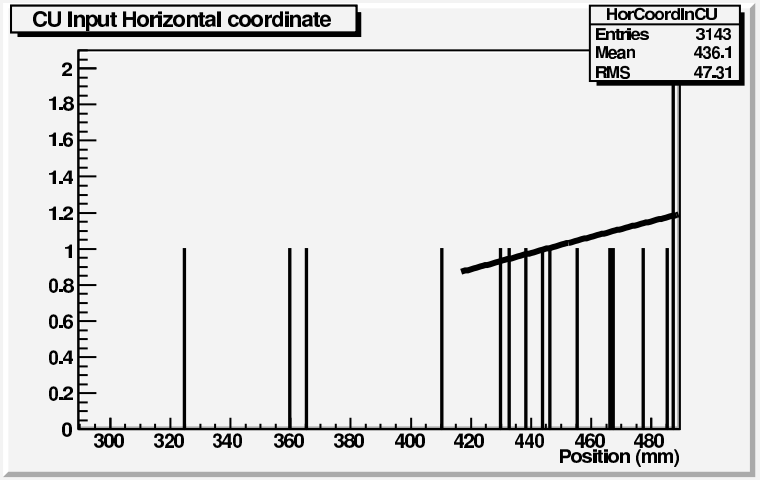

CU Input vertical coordinate
VertCoordInCU
Entries 11670
Mean 32.57
RMS 3.959
Position (mm)

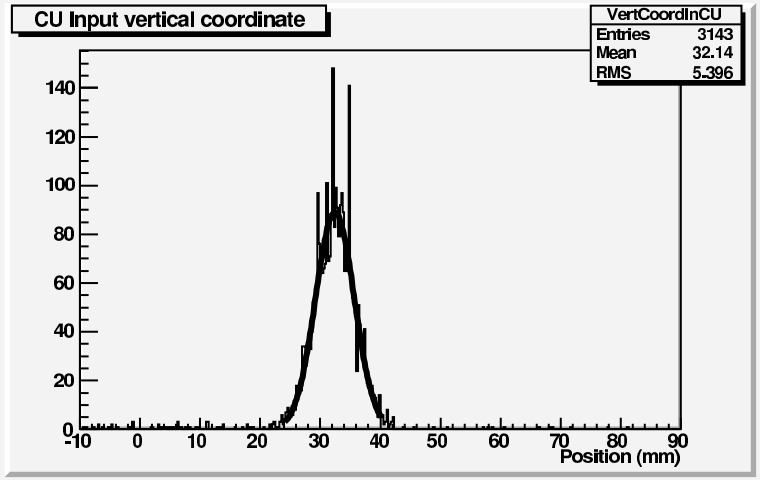

CU Input horizontal angle
HorAngleInCU
Entries 11670
Mean 0.1758
RMS 0.01061
Angle (rad)

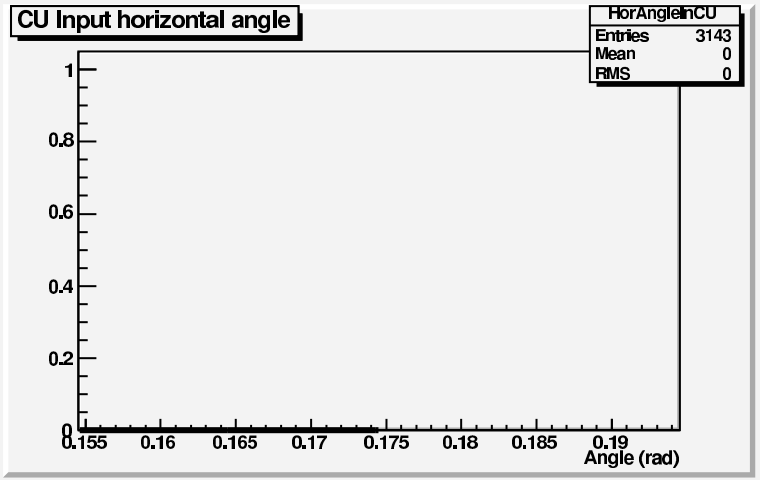

CU Input vertical angle
VertAngleInCU
Entries 11670
Mean 0.005487
RMS 0.0009759
Angle (rad)

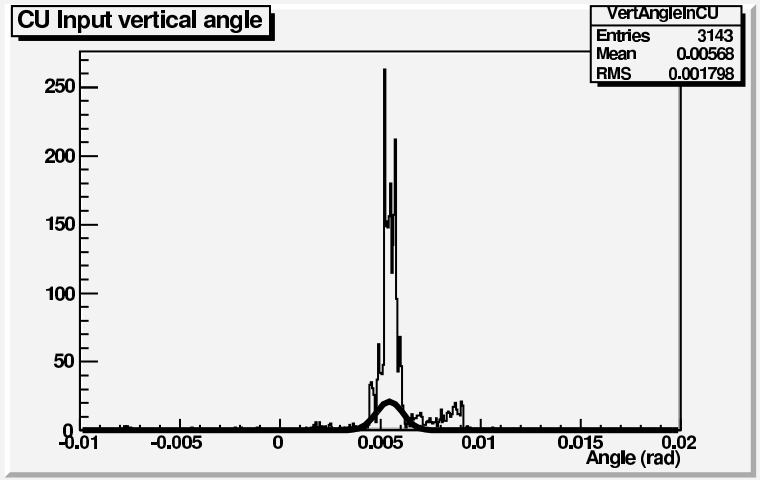

CU Input Beam Spot
SpotCoordInCU
Entries 11670
Mean x 388.3
Mean y 36
RMS x 12.25
RMS y 5.376
Vertical Position (mm)
Horizontal Position (mm)

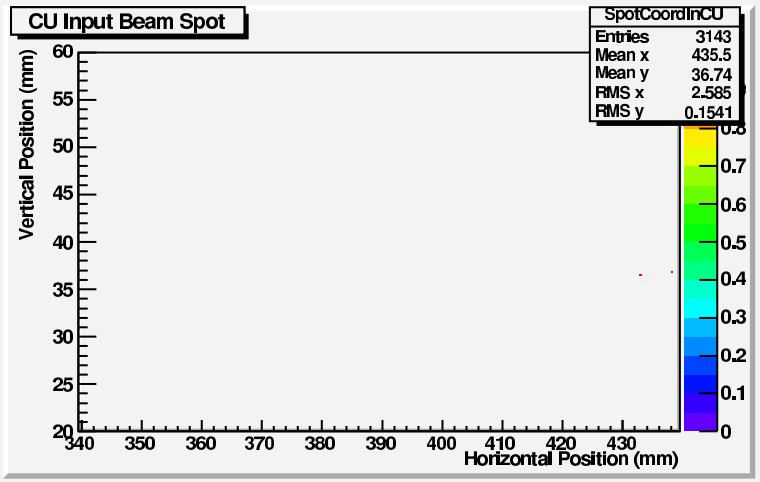

CU Input Beam Spot
SpotAngleInCU
Entries 11670
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

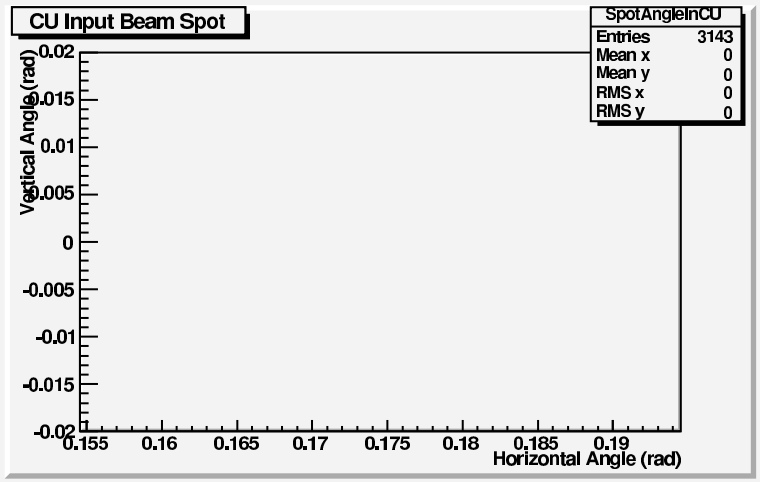

CU Input Horizontal coordinate
HorCoordInCU
Entries 3143
Mean 436.1
RMS 47.31
Position (mm)

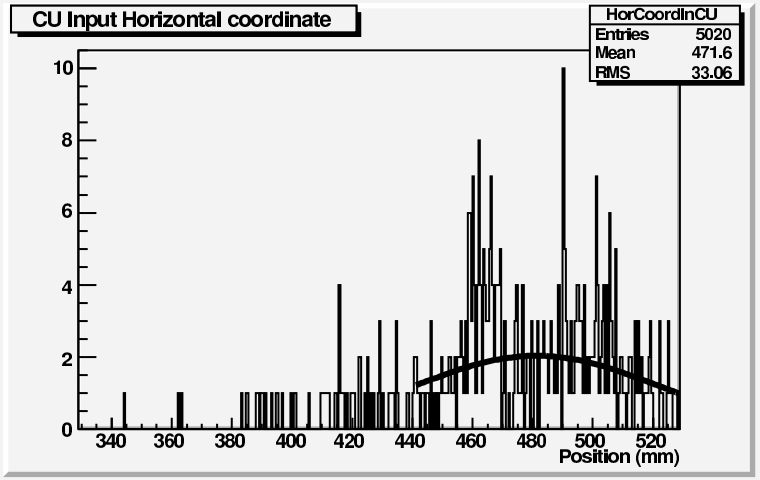

CU Input vertical coordinate
VertCoordInCU
Entries 3143
Mean 32.14
RMS 5.396
Position (mm)

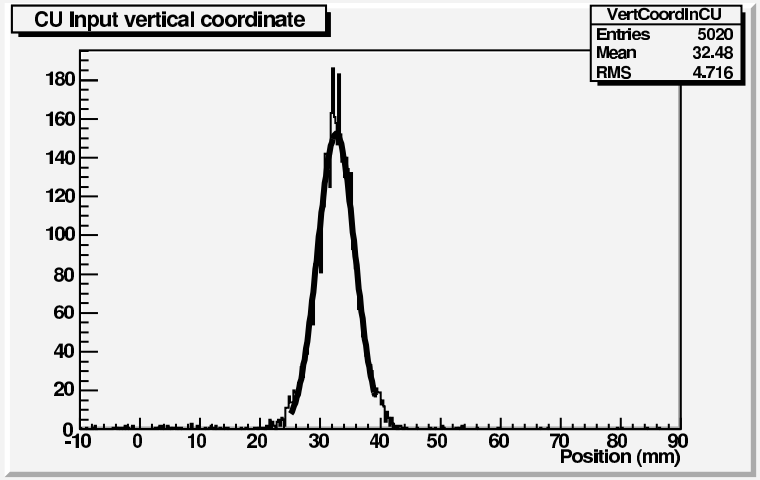

CU Input horizontal angle
HorAngleInCU
Entries 3143
Mean 0
RMS 0
Angle (rad)

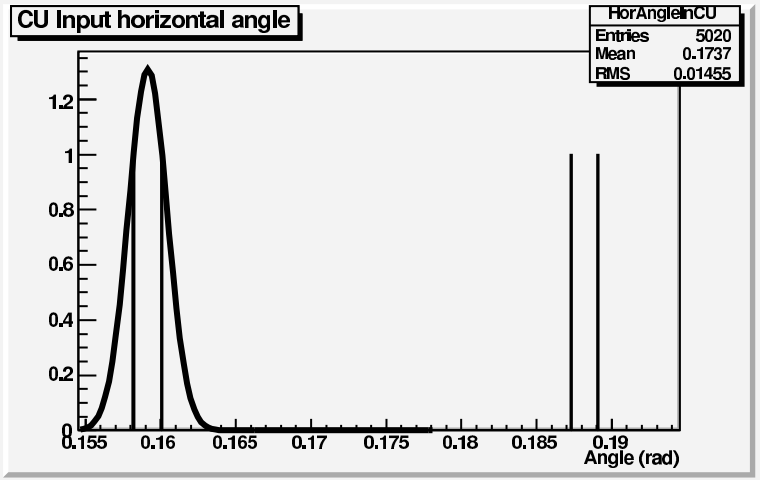

CU Input vertical angle
VertAngleInCU
Entries 3143
Mean 0.00568
RMS 0.001798
Angle (rad)

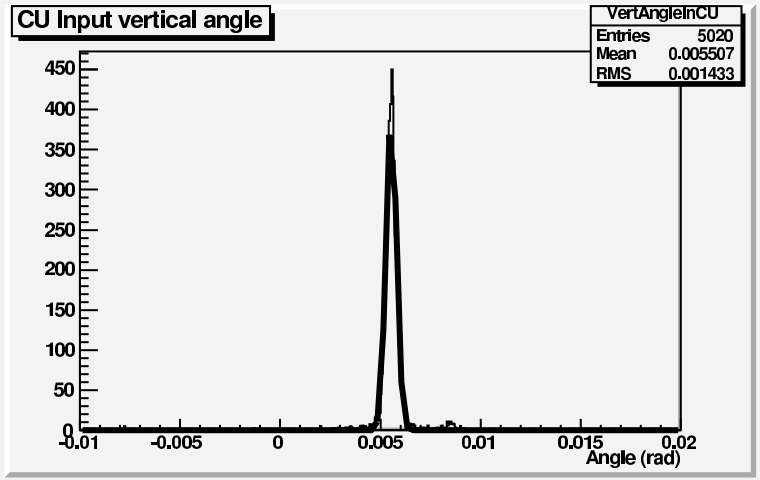

CU Input Beam Spot
SpotCoordInCU
Entries 3143
Mean x 435.5
Mean y 36.74
RMS x 2.585
RMS y 0.1541
Vertical Position (mm)
Horizontal Position (mm)

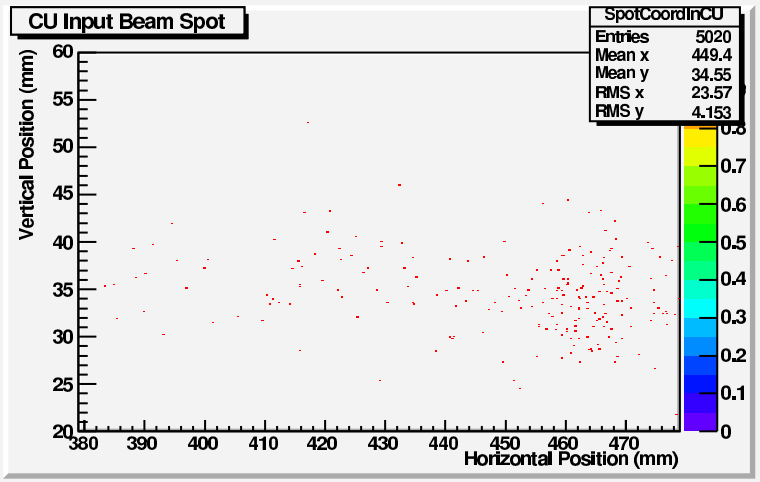

CU Input Beam Spot
SpotAngleInCU
Entries 3143
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

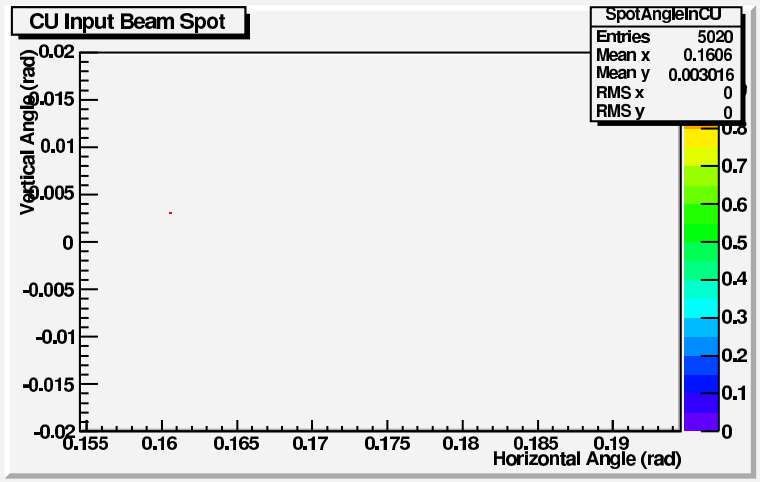

CU Input Horizontal coordinate
HorCoordInCU
Entries 5020
Mean 471.6
RMS 33.06
Position (mm)

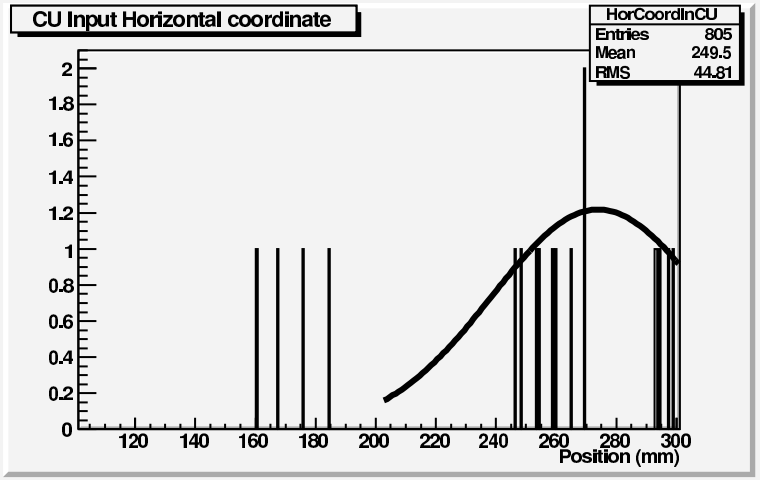

CU Input vertical coordinate
VertCoordInCU
Entries 5020
Mean 32.48
RMS 4.716
Position (mm)

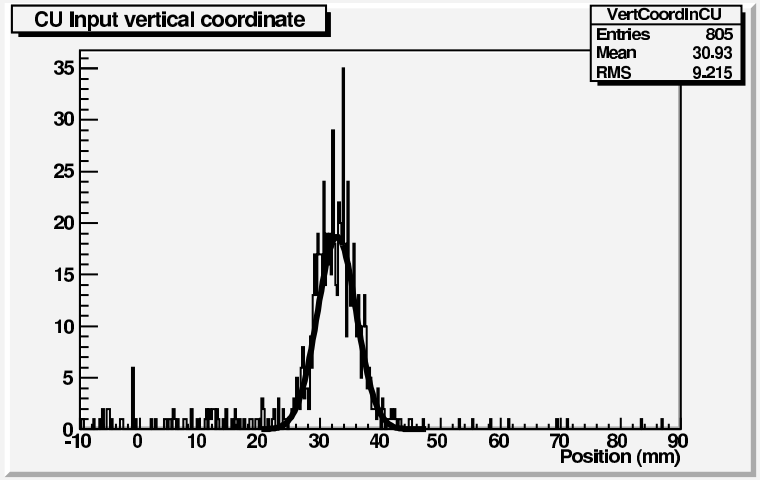

CU Input horizontal angle
HorAngleInCU
Entries 5020
Mean 0.1737
RMS 0.01455
Angle (rad)

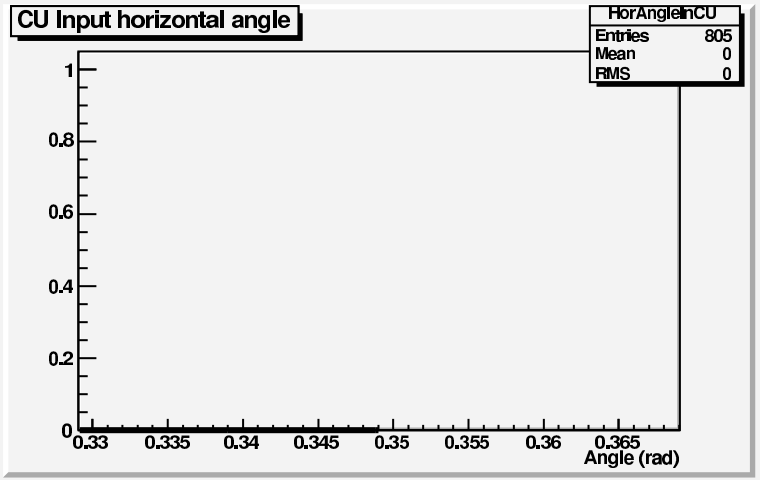

CU Input vertical angle
VertAngleInCU
Entries 5020
Mean 0.005507
RMS 0.001433
Angle (rad)

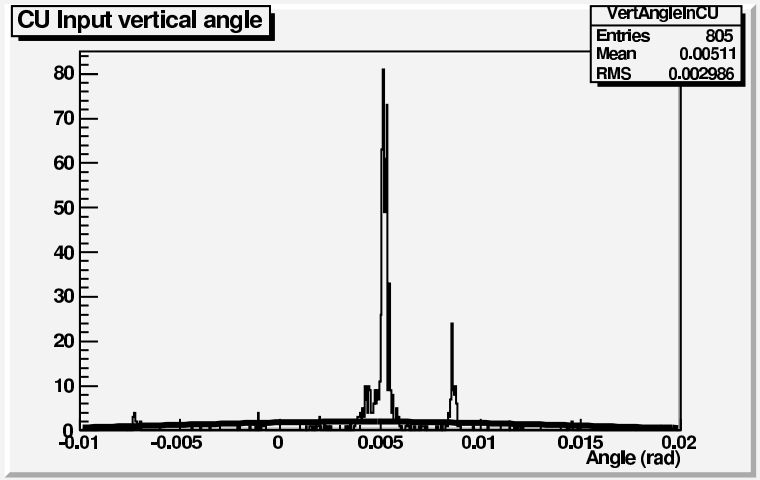

CU Input Beam Spot
SpotCoordInCU
Entries 5020
Mean x 449.4
Mean y 34.55
RMS x 23.57
RMS y 4.153
Vertical Position (mm)
Horizontal Position (mm)

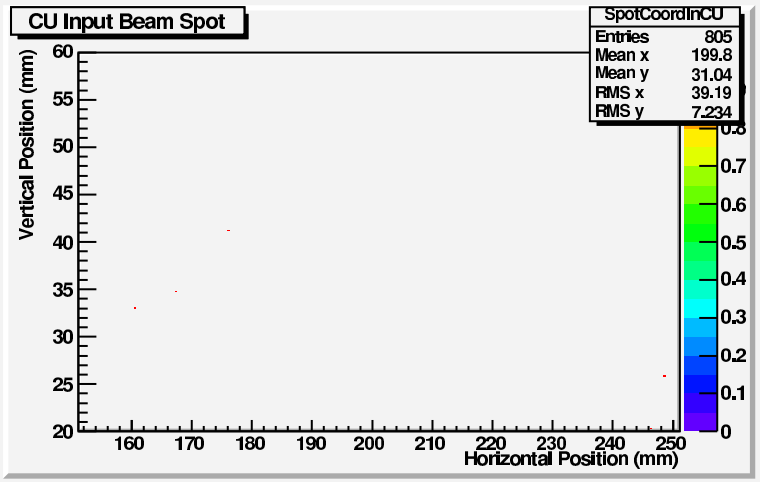

CU Input Beam Spot
SpotAngleInCU
Entries 5020
Mean x 0.1606
Mean y 0.003016
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

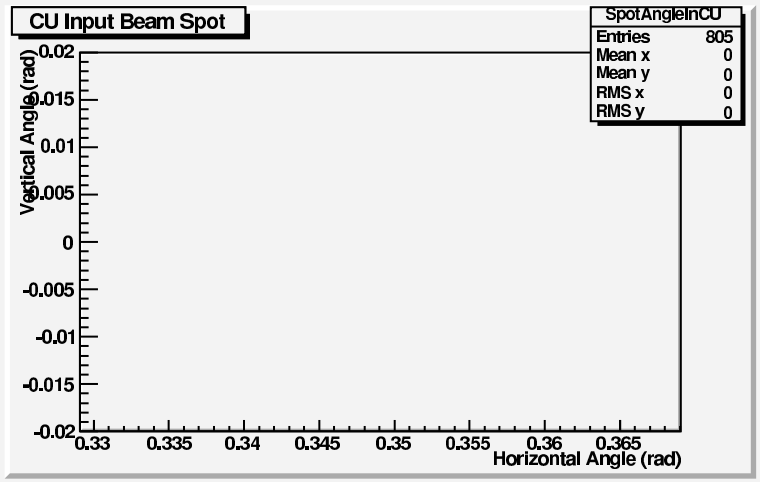

CU Input Horizontal coordinate
HorCoordInCU
Entries 805
Mean 249.5
RMS 44.81
Position (mm)

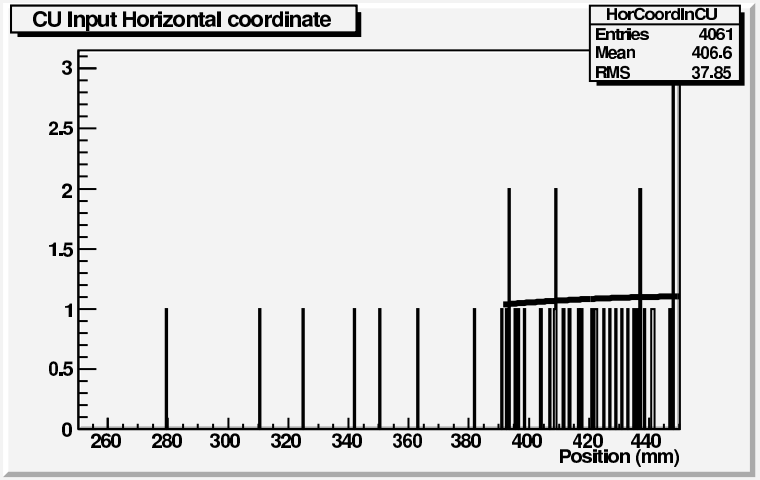

CU Input vertical coordinate
VertCoordInCU
Entries 805
Mean 30.93
RMS 9.215
Position (mm)

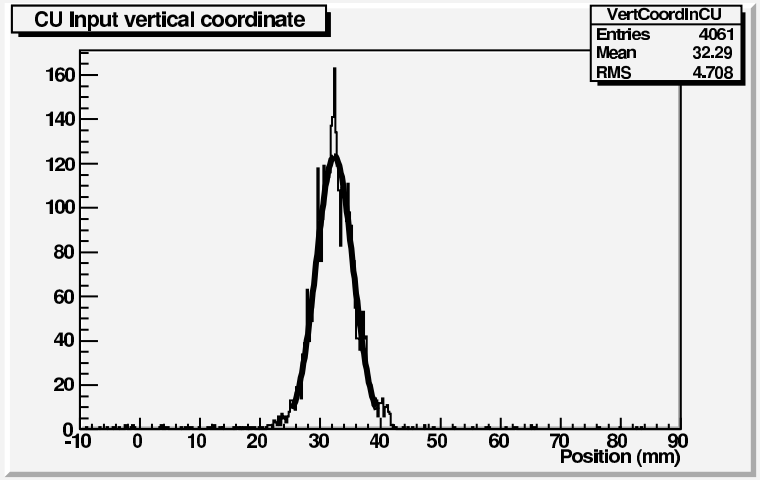

CU Input horizontal angle
HorAngleInCU
Entries 805
Mean 0
RMS 0
Angle (rad)

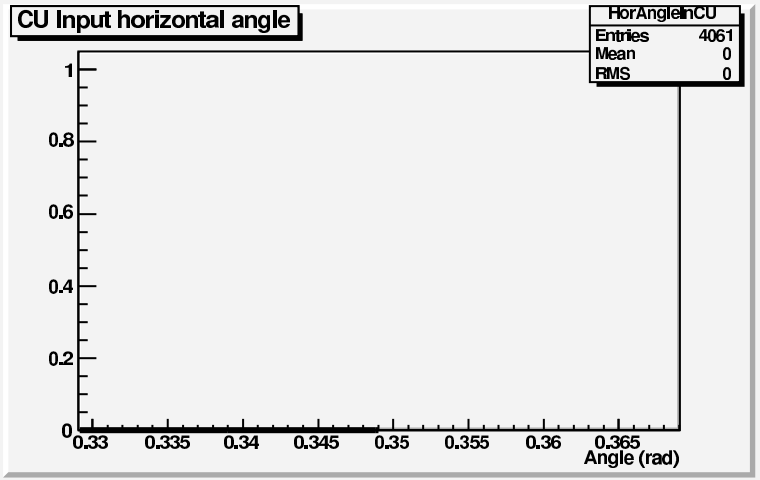

CU Input vertical angle
VertAngleInCU
Entries 805
Mean 0.00511
RMS 0.002986
Angle (rad)

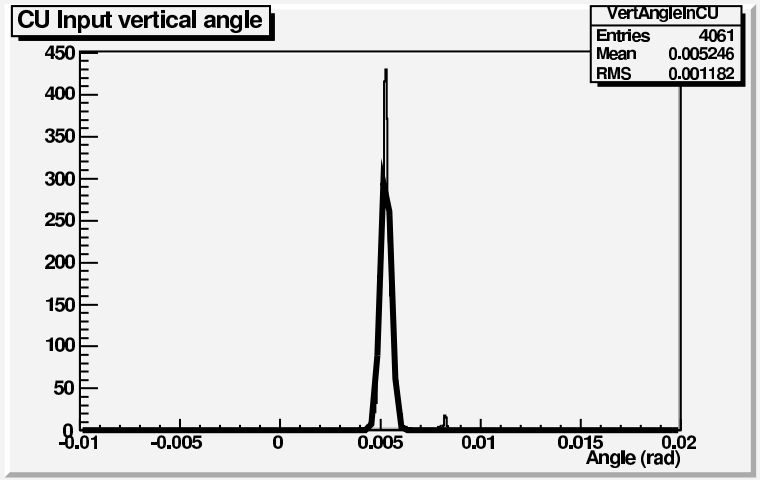

CU Input Beam Spot
SpotCoordInCU
Entries 805
Mean x 199.8
Mean y 31.04
RMS x 39.19
RMS y 7.234
Vertical Position (mm)
Horizontal Position (mm)

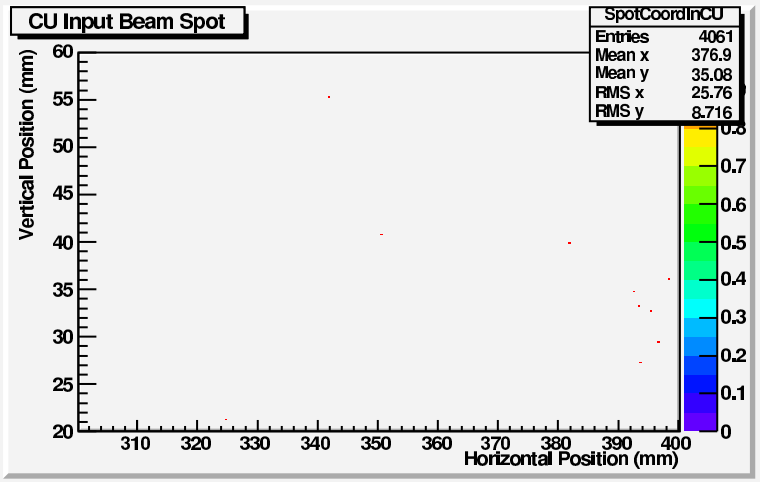

CU Input Beam Spot
SpotAngleInCU
Entries 805
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

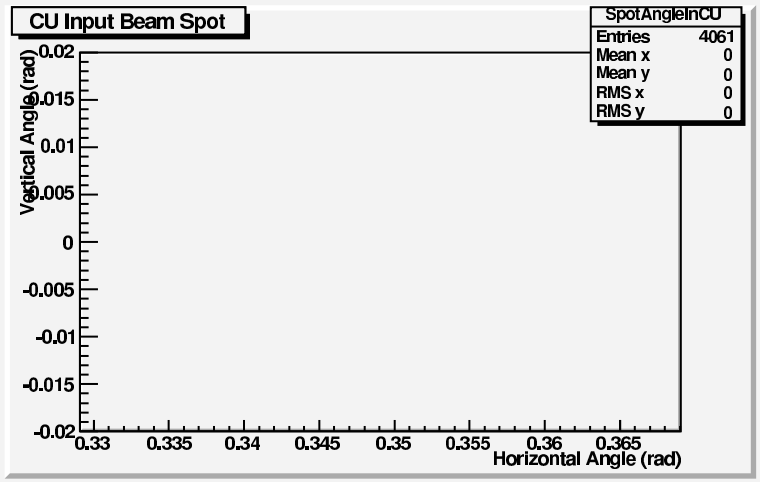

CU Input Horizontal coordinate
HorCoordInCU
Entries 4061
Mean 406.6
RMS 37.85
Position (mm)

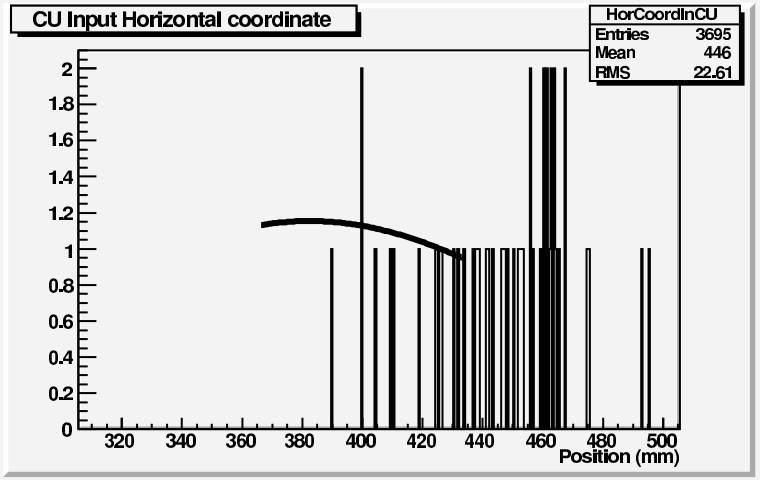

CU Input vertical coordinate
VertCoordInCU
Entries 4061
Mean 32.29
RMS 4.708
Position (mm)

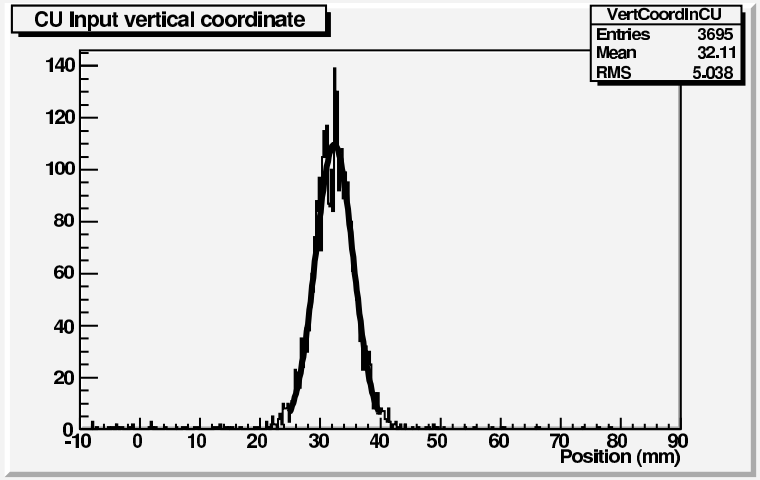

CU Input horizontal angle
HorAngleInCU
Entries 4061
Mean 0
RMS 0
Angle (rad)

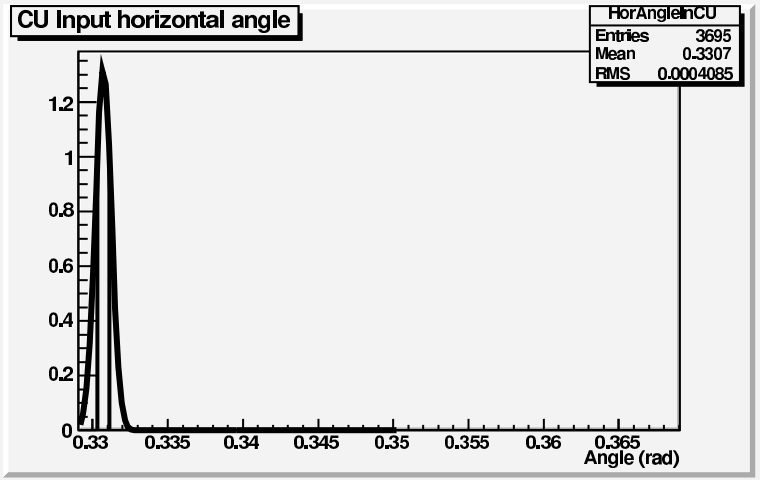

CU Input vertical angle
VertAngleInCU
Entries 4061
Mean 0.005246
RMS 0.001182
Angle (rad)

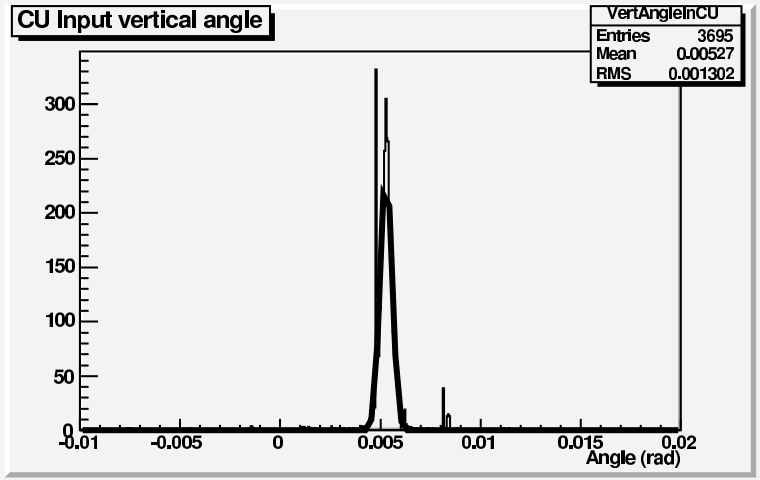

CU Input Beam Spot
SpotCoordInCU
Entries 4061
Mean x 376.9
Mean y 35.08
RMS x 25.76
RMS y 8.716
Vertical Position (mm)
Horizontal Position (mm)

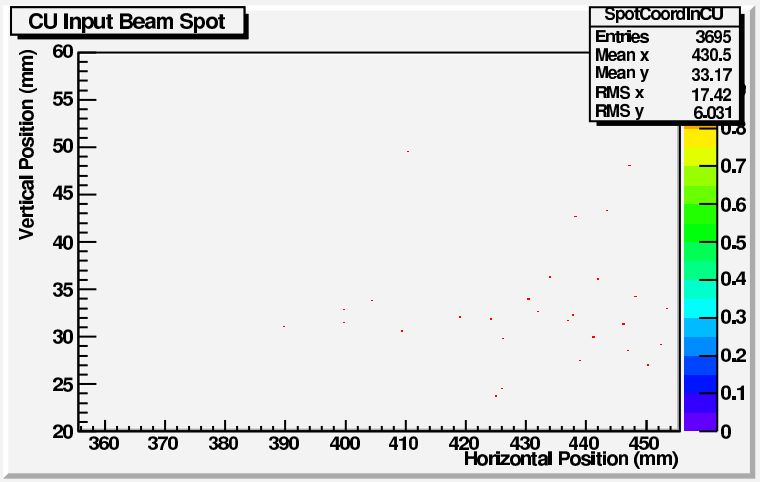

CU Input Beam Spot
SpotAngleInCU
Entries 4061
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

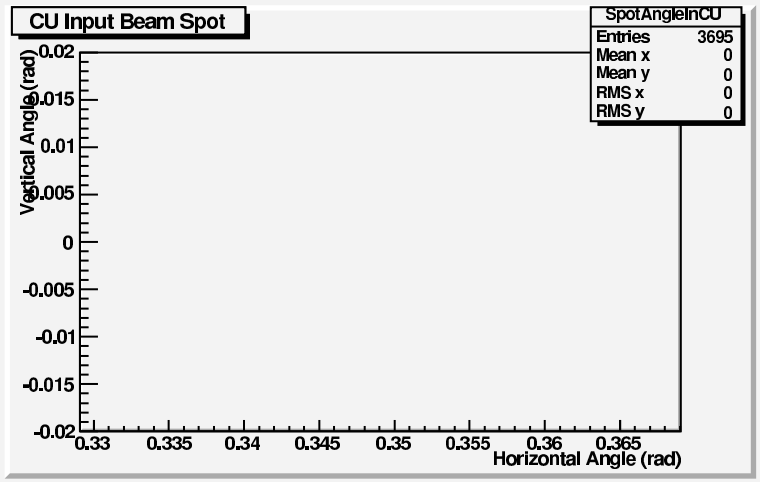

CU Input Horizontal coordinate
HorCoordInCU
Entries 3695
Mean 446
RMS 22.61
Position (mm)

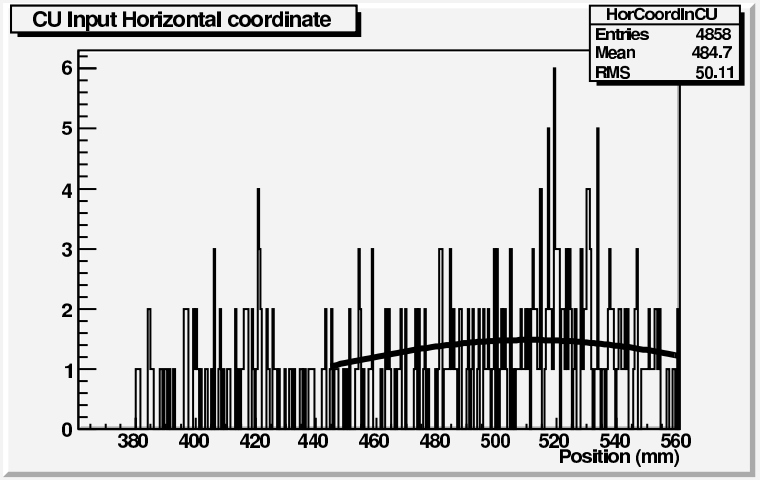

CU Input vertical coordinate
VertCoordInCU
Entries 3695
Mean 32.11
RMS 5.038
Position (mm)

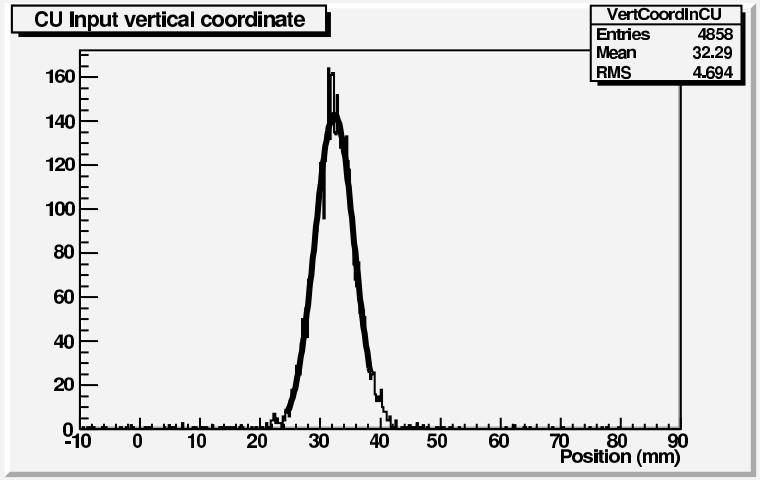

CU Input horizontal angle
HorAngleInCU
Entries 3695
Mean 0.3307
RMS 0.0004085
Angle (rad)

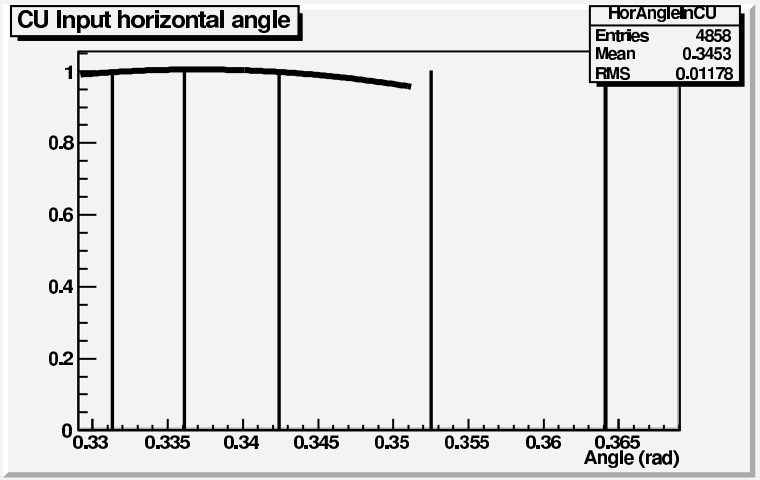

CU Input vertical angle
VertAngleInCU
Entries 3695
Mean 0.00527
RMS 0.001302
Angle (rad)

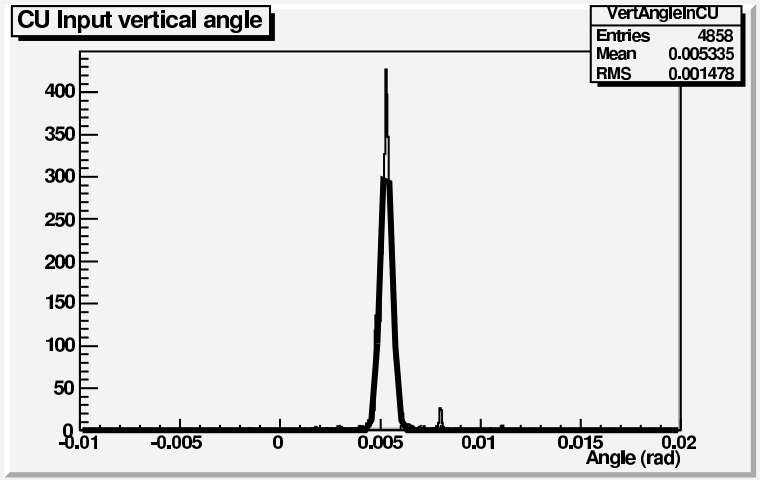

CU Input Beam Spot
SpotCoordInCU
Entries 3695
Mean x 430.5
Mean y 33.17
RMS x 17.42
RMS y 6.031
Vertical Position (mm)
Horizontal Position (mm)

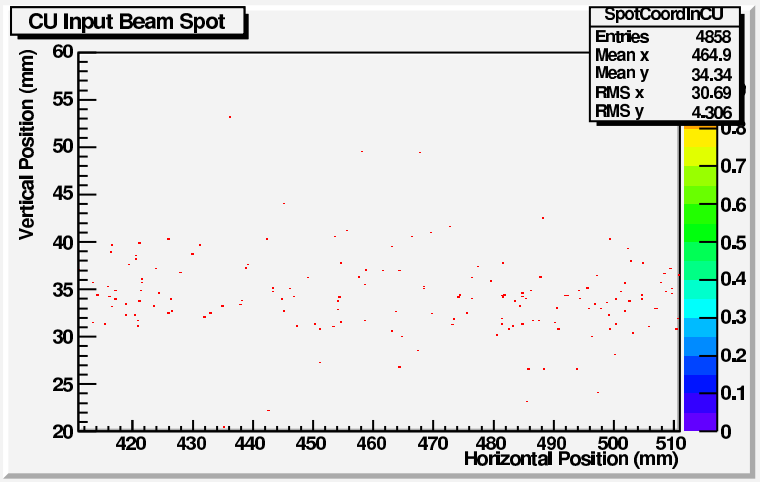

CU Input Beam Spot
SpotAngleInCU
Entries 3695
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

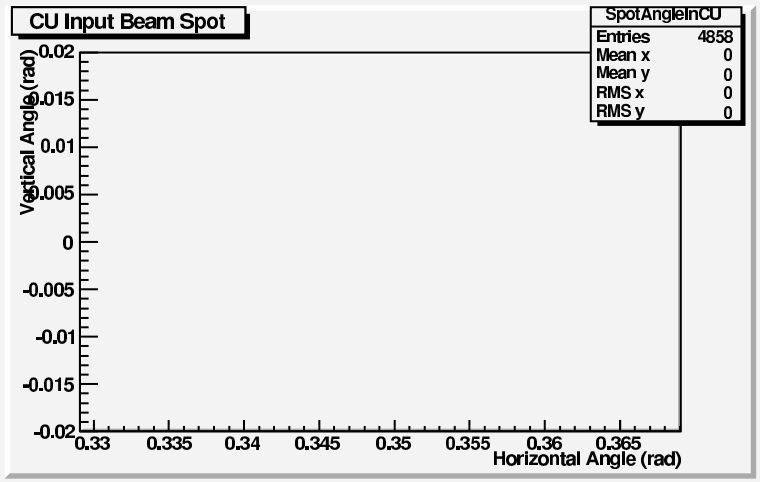

CU Input Horizontal coordinate
HorCoordInCU
Entries 4858
Mean 484.7
RMS 50.11
Position (mm)

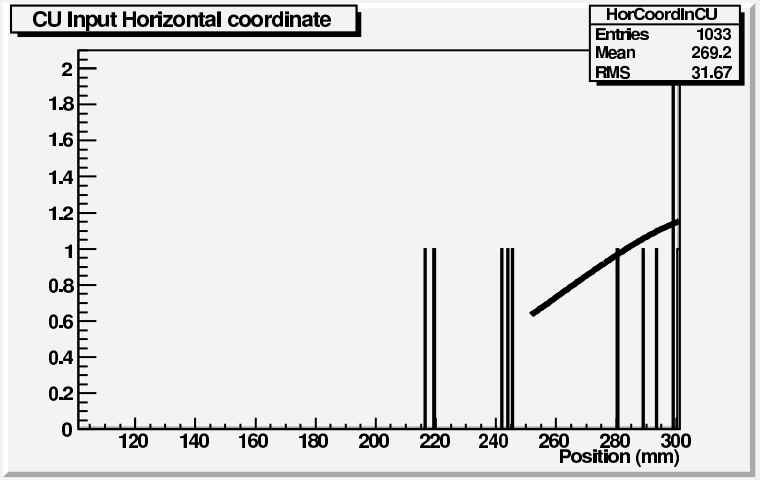

CU Input vertical coordinate
VertCoordInCU
Entries 4858
Mean 32.29
RMS 4.694
Position (mm)

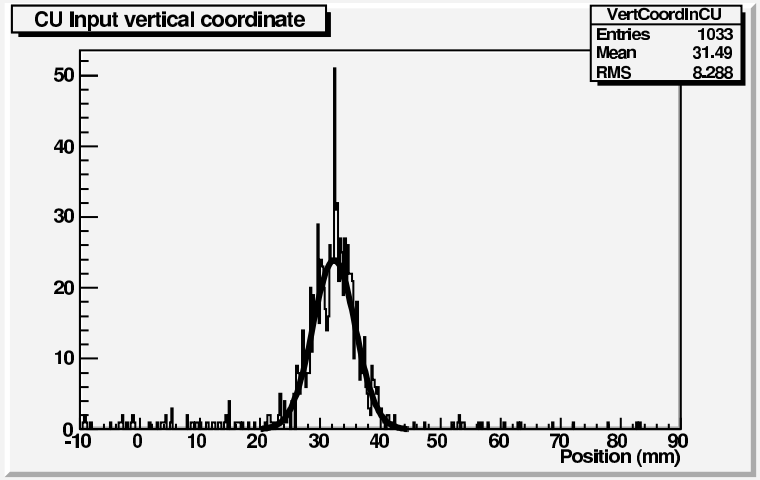

CU Input horizontal angle
HorAngleInCU
Entries 4858
Mean 0.3453
RMS 0.01178
Angle (rad)

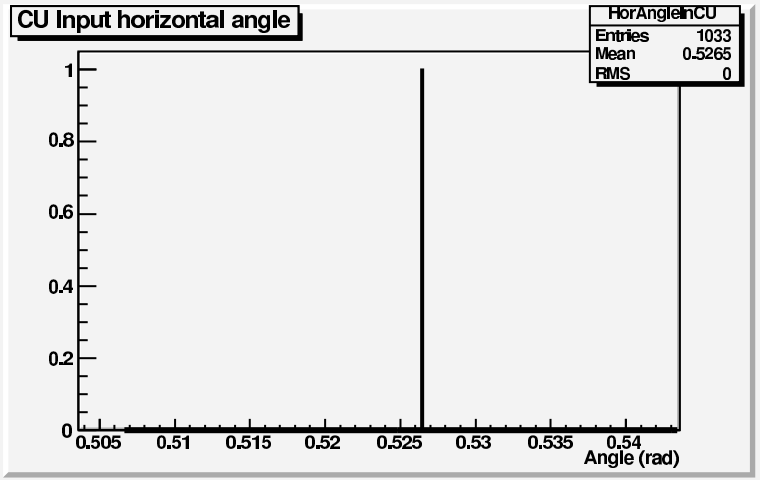

CU Input vertical angle
VertAngleInCU
Entries 4858
Mean 0.005335
RMS 0.001478
Angle (rad)

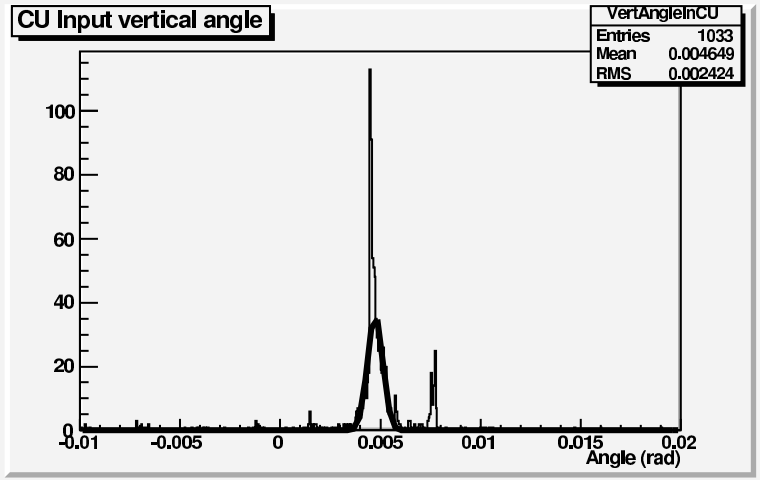

CU Input Beam Spot
SpotCoordInCU
Entries 4858
Mean x 464.9
Mean y 34.34
RMS x 30.69
RMS y 4.306
Vertical Position (mm)
Horizontal Position (mm)

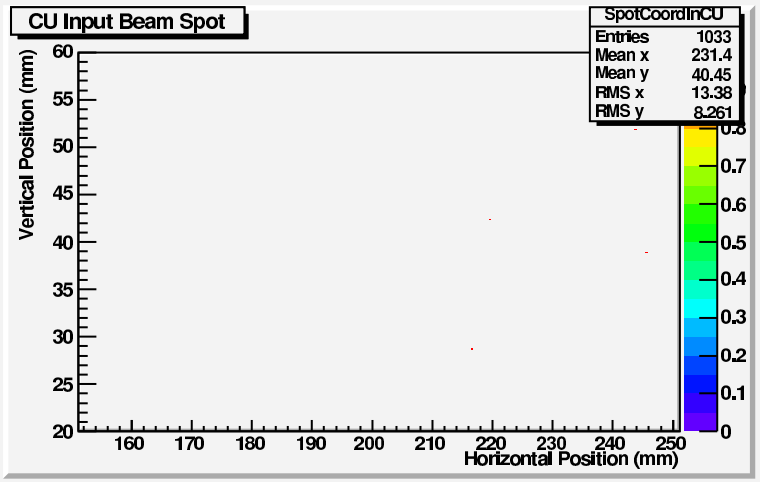

CU Input Beam Spot
SpotAngleInCU
Entries 4858
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

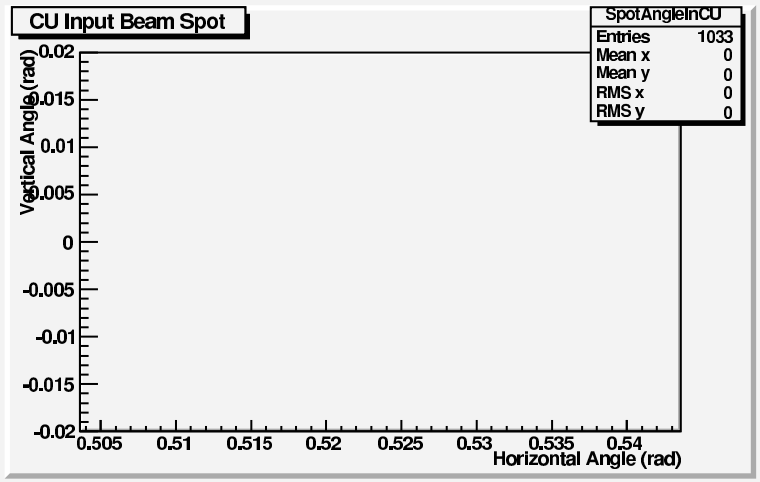

CU Input Horizontal coordinate
HorCoordInCU
Entries 1033
Mean 269.2
RMS 31.67
Position (mm)

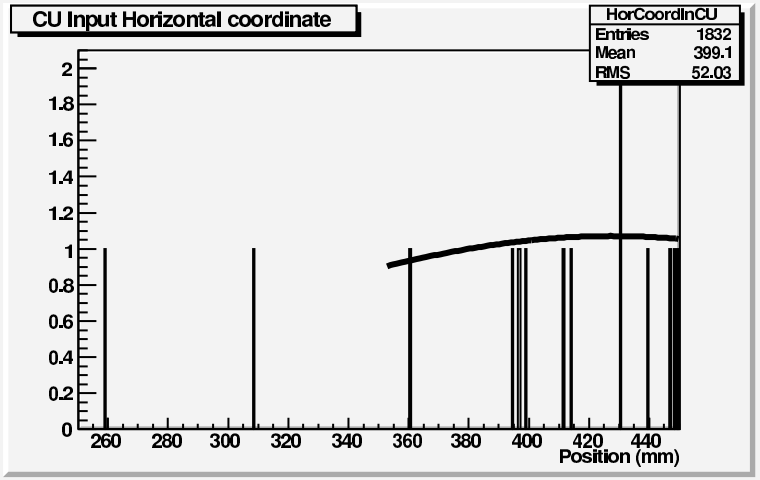

CU Input vertical coordinate
VertCoordInCU
Entries 1033
Mean 31.49
RMS 8.288
Position (mm)

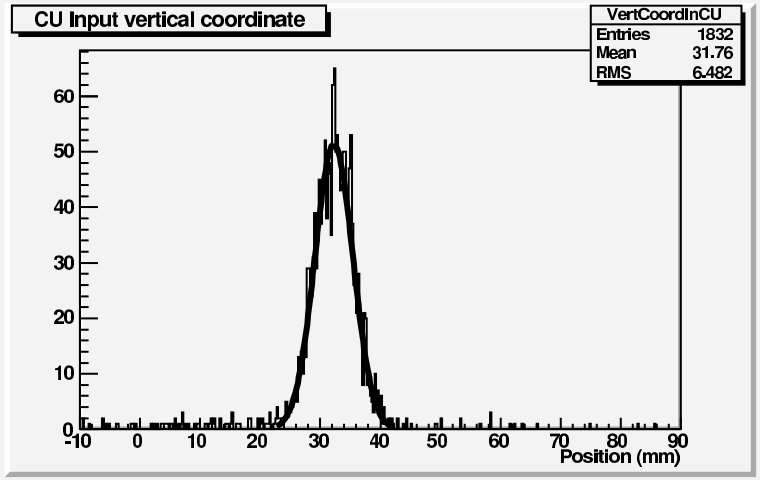

CU Input horizontal angle
HorAngleInCU
Entries 1033
Mean 0.5265
RMS 0
Angle (rad)

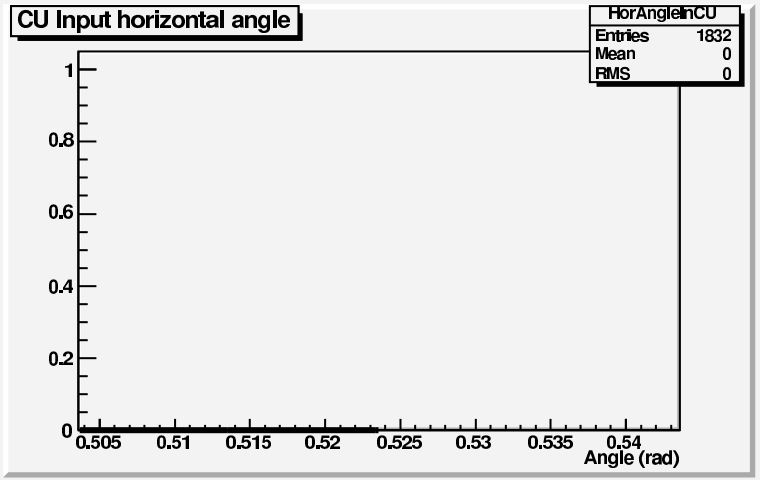

CU Input vertical angle
VertAngleInCU
Entries 1033
Mean 0.004649
RMS 0.002424
Angle (rad)

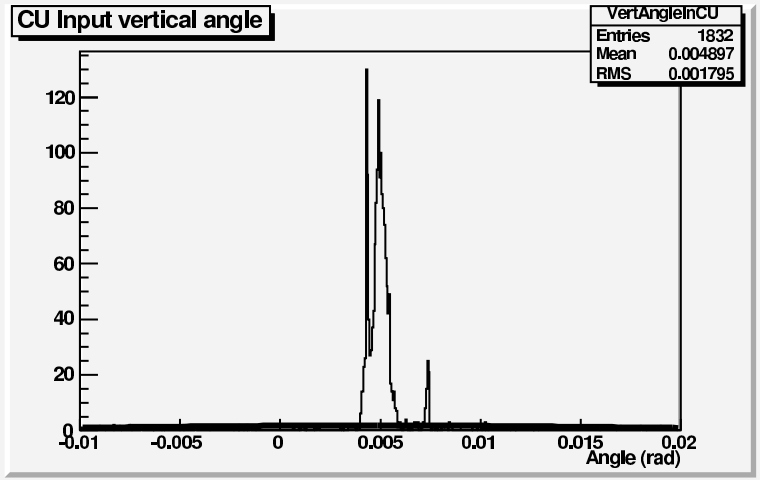

CU Input Beam Spot
SpotCoordInCU
Entries 1033
Mean x 231.4
Mean y 40.45
RMS x 13.38
RMS y 8.261
Vertical Position (mm)
Horizontal Position (mm)

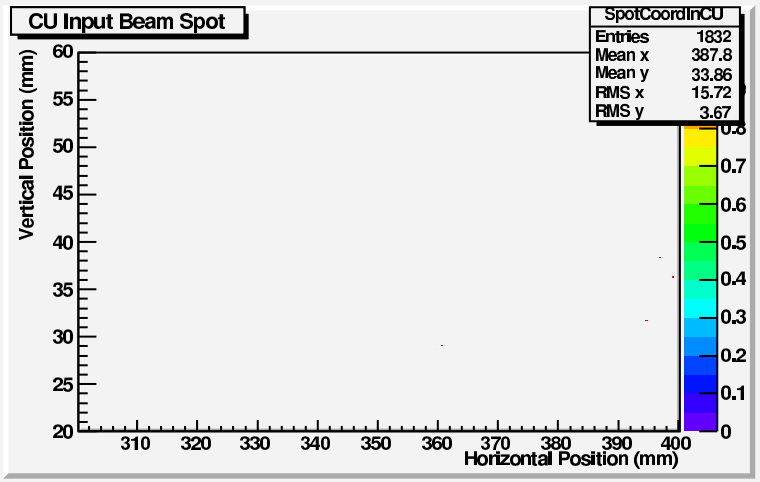

CU Input Beam Spot
SpotAngleInCU
Entries 1033
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

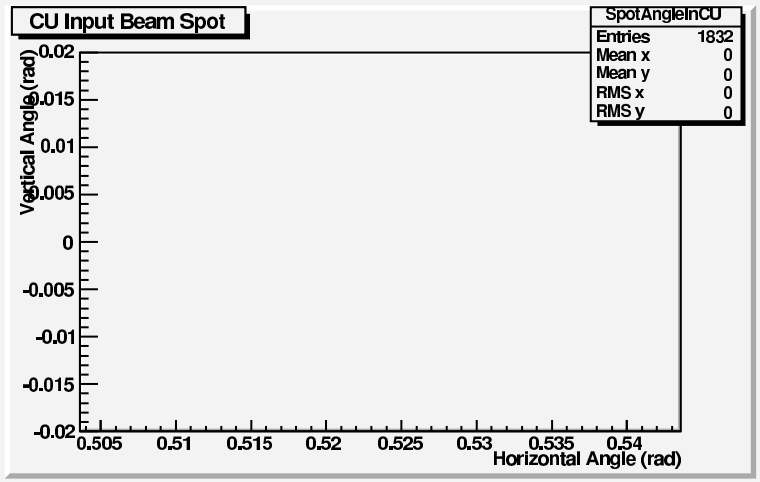

CU Input Horizontal coordinate
HorCoordInCU
Entries 1832
Mean 399.1
RMS 52.03
Position (mm)

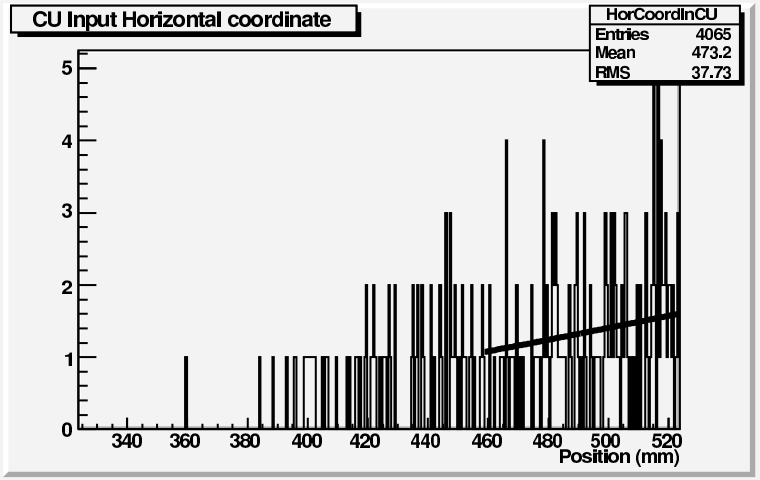

CU Input vertical coordinate
VertCoordInCU
Entries 1832
Mean 31.76
RMS 6.482
Position (mm)

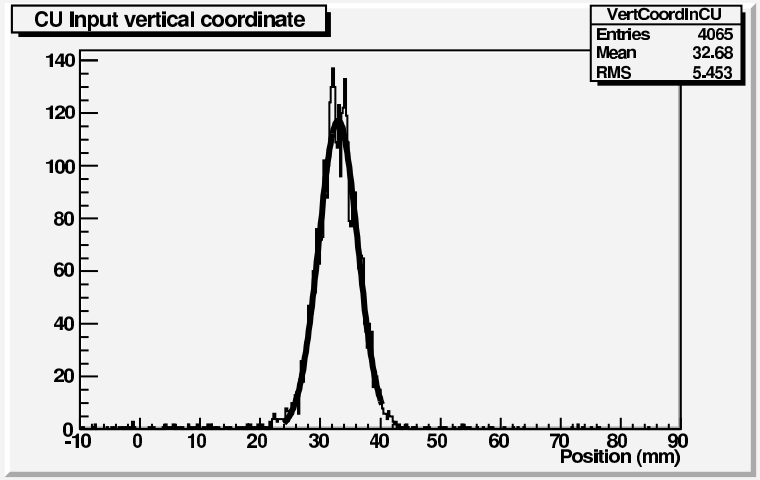

CU Input horizontal angle
HorAngleInCU
Entries 1832
Mean 0
RMS 0
Angle (rad)

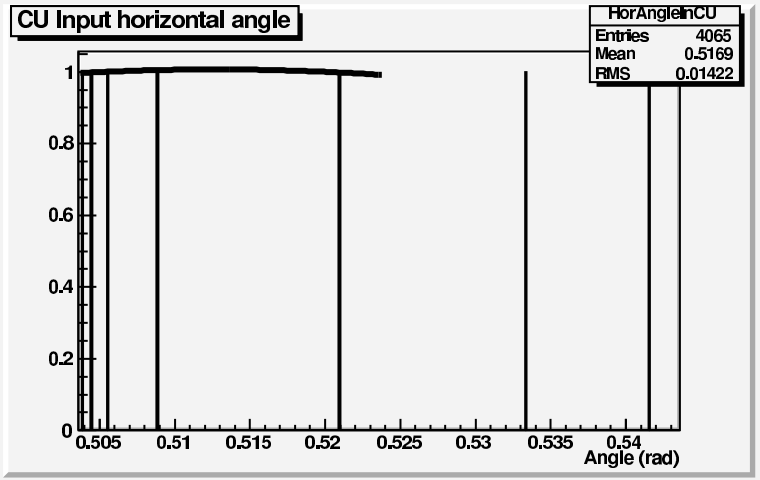

CU Input vertical angle
VertAngleInCU
Entries 1832
Mean 0.004897
RMS 0.001795
Angle (rad)

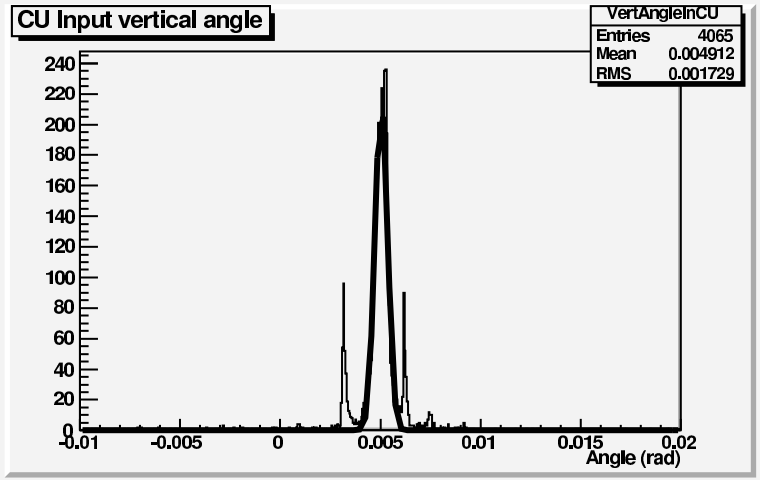

CU Input Beam Spot
SpotCoordInCU
Entries 1832
Mean x 387.8
Mean y 33.86
RMS x 15.72
RMS y 3.67
Vertical Position (mm)
Horizontal Position (mm)

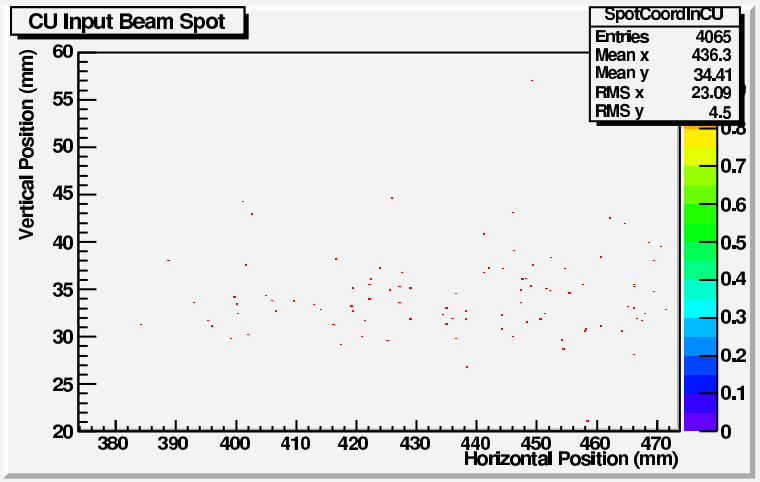

CU Input Beam Spot
SpotAngleInCU
Entries 1832
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

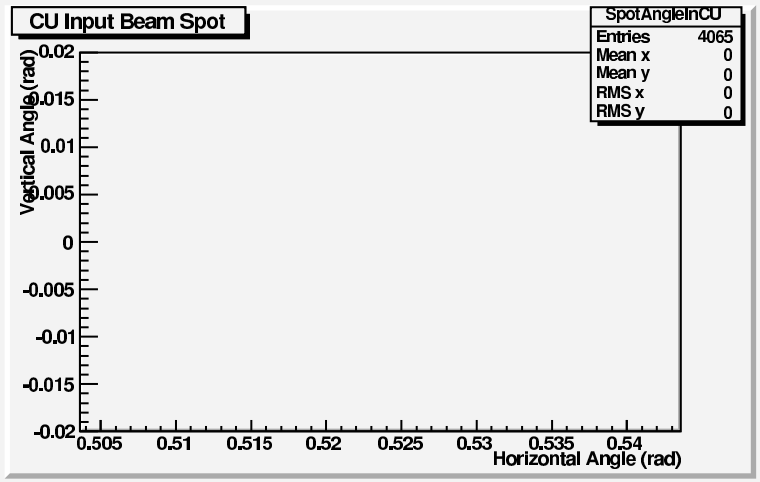

CU Input Horizontal coordinate
HorCoordInCU
Entries 4065
Mean 473.2
RMS 37.73
Position (mm)

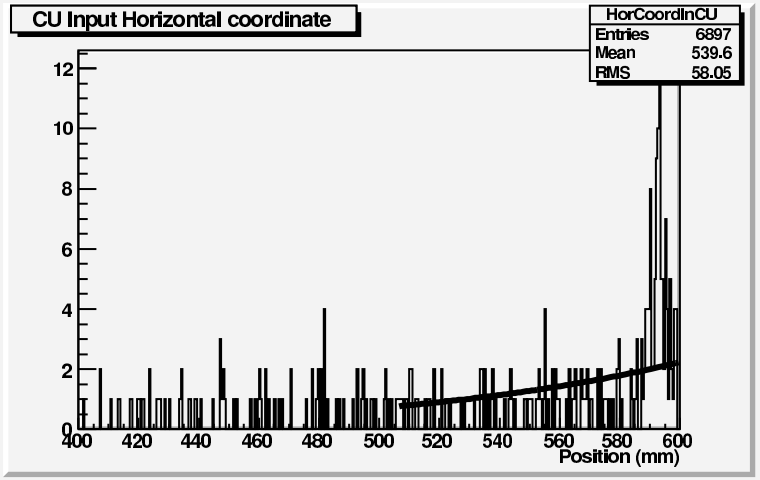

CU Input vertical coordinate
VertCoordInCU
Entries 4065
Mean 32.68
RMS 5.453
Position (mm)

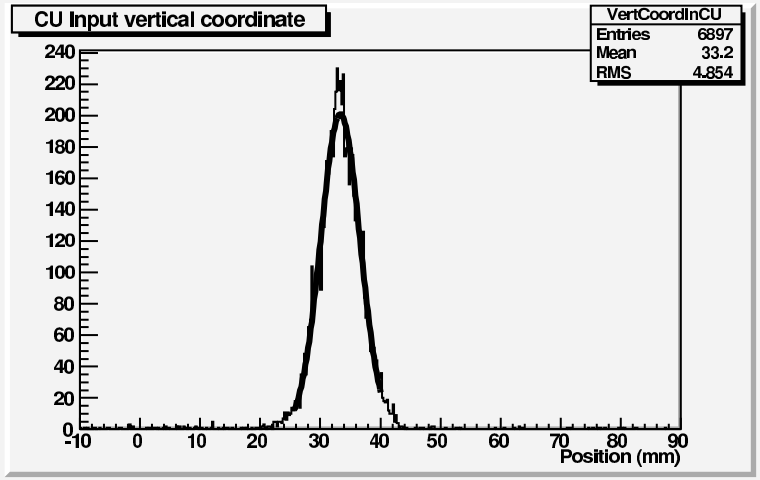

CU Input horizontal angle
HorAngleInCU
Entries 4065
Mean 0.5169
RMS 0.01422
Angle (rad)

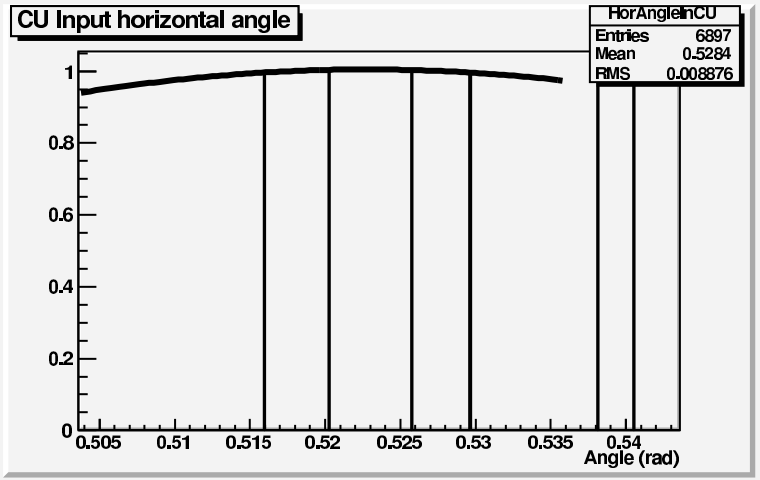

CU Input vertical angle
VertAngleInCU
Entries 4065
Mean 0.004912
RMS 0.001729
Angle (rad)

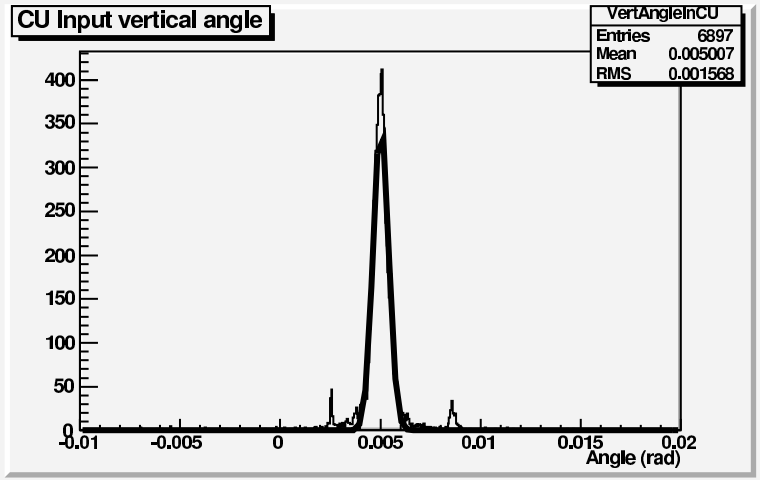

CU Input Beam Spot
SpotCoordInCU
Entries 4065
Mean x 436.3
Mean y 34.41
RMS x 23.09
RMS y 4.5
Vertical Position (mm)
Horizontal Position (mm)

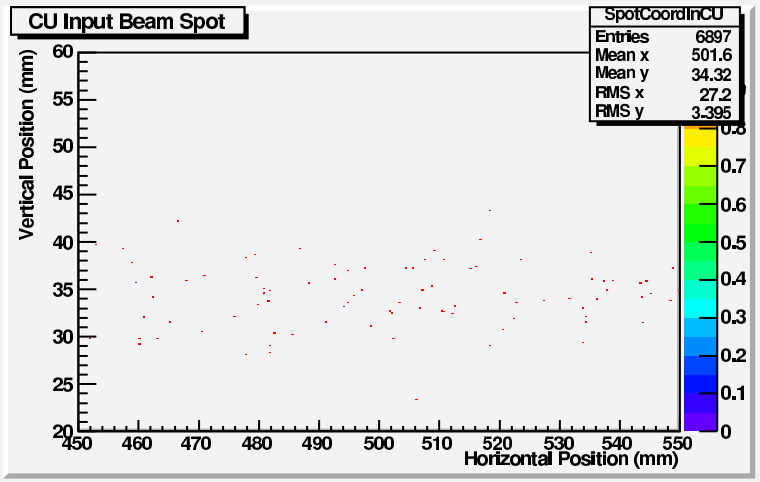

CU Input Beam Spot
SpotAngleInCU
Entries 4065
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

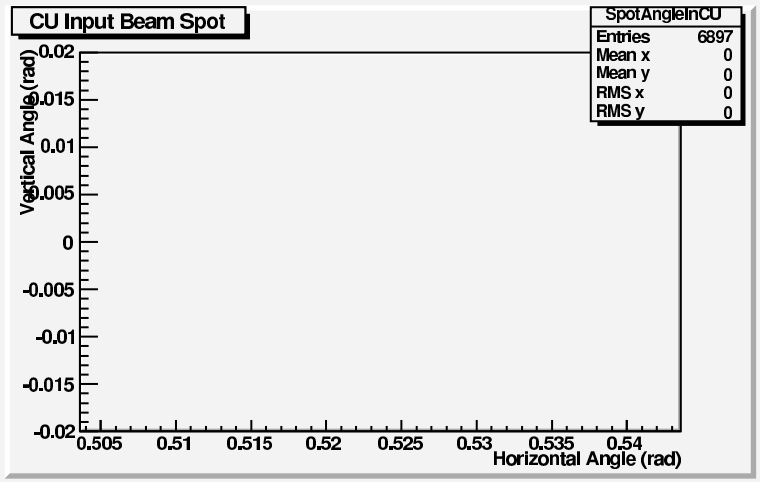

CU Input Horizontal coordinate
HorCoordInCU
Entries 6897
Mean 539.6
RMS 58.05
Position (mm)

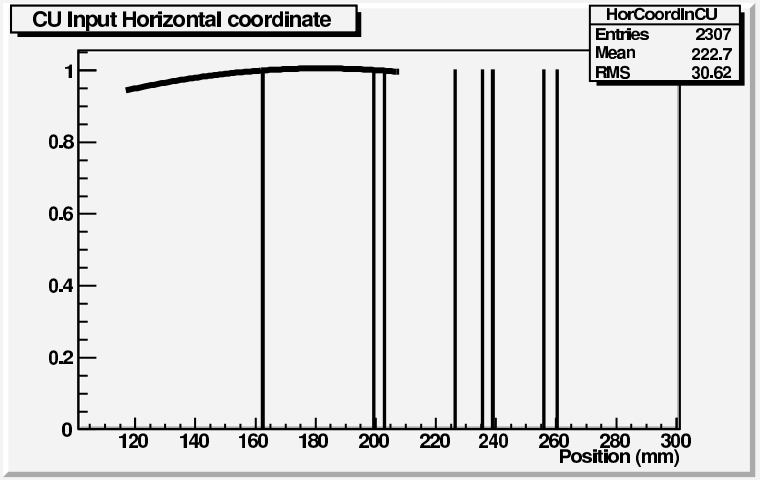

CU Input vertical coordinate
VertCoordInCU
Entries 6897
Mean 33.2
RMS 4.854
Position (mm)

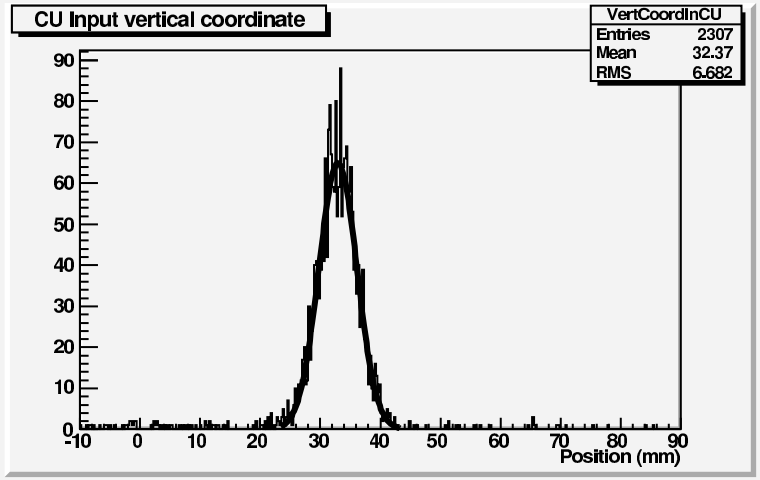

CU Input horizontal angle
HorAngleInCU
Entries 6897
Mean 0.5284
RMS 0.008876
Angle (rad)

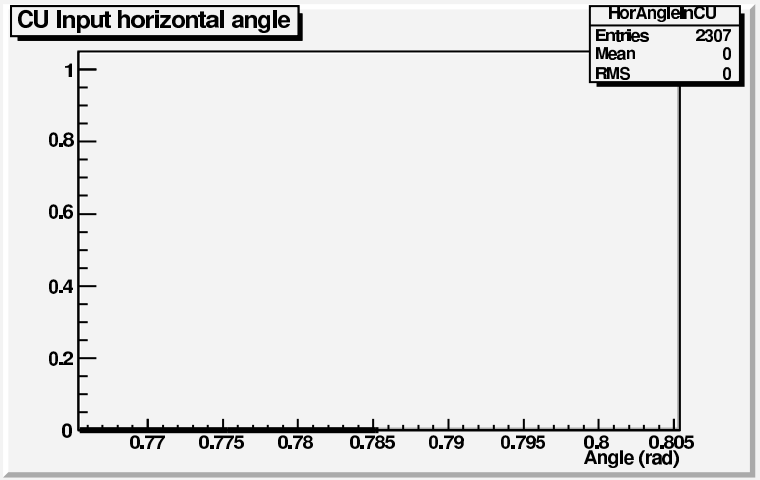

CU Input vertical angle
VertAngleInCU
Entries 6897
Mean 0.005007
RMS 0.001568
Angle (rad)

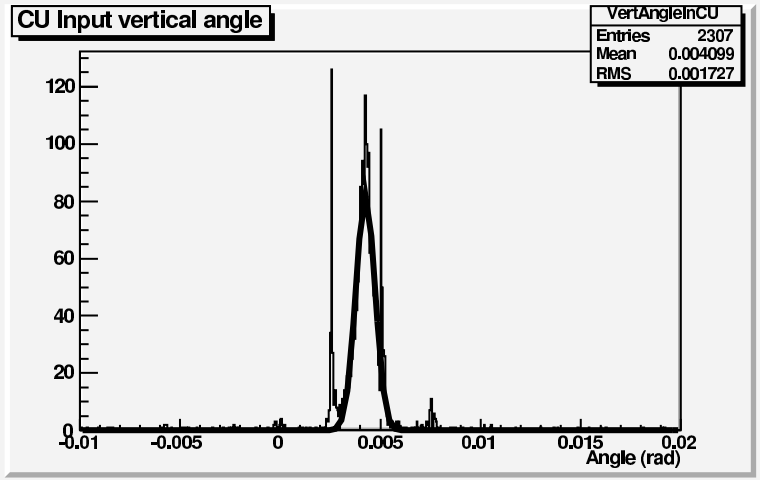

CU Input Beam Spot
SpotCoordInCU
Entries 6897
Mean x 501.6
Mean y 34.32
RMS x 27.2
RMS y 3.395
Vertical Position (mm)
Horizontal Position (mm)

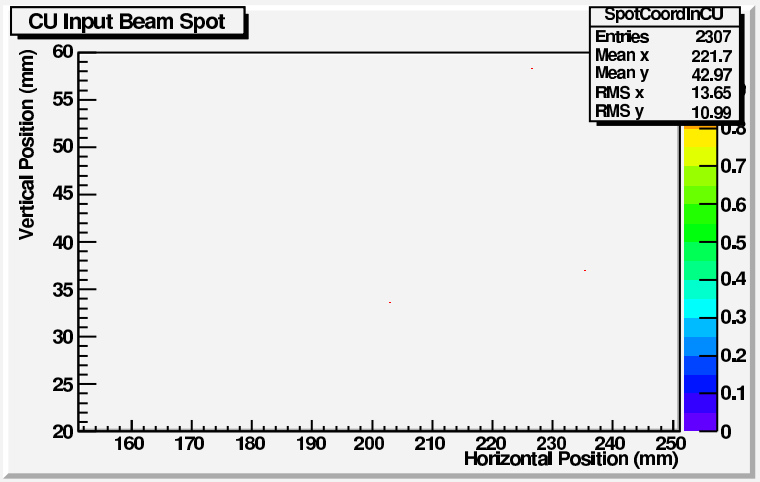

CU Input Beam Spot
SpotAngleInCU
Entries 6897
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

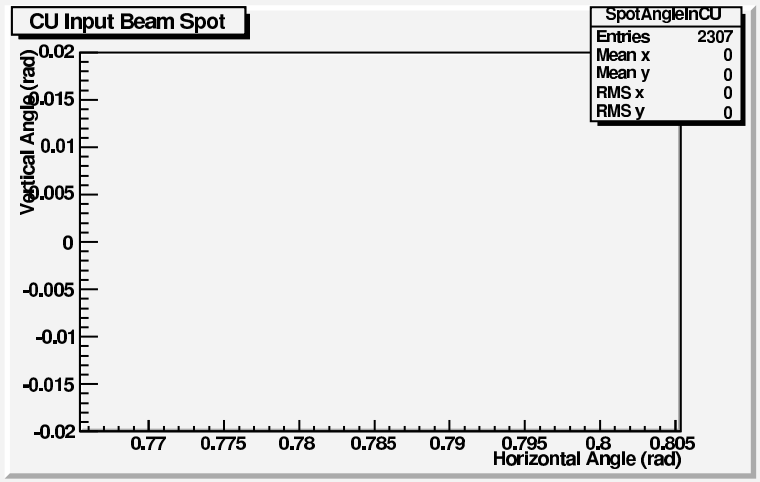

CU Input Horizontal coordinate
HorCoordInCU
Entries 2307
Mean 222.7
RMS 30.62
Position (mm)

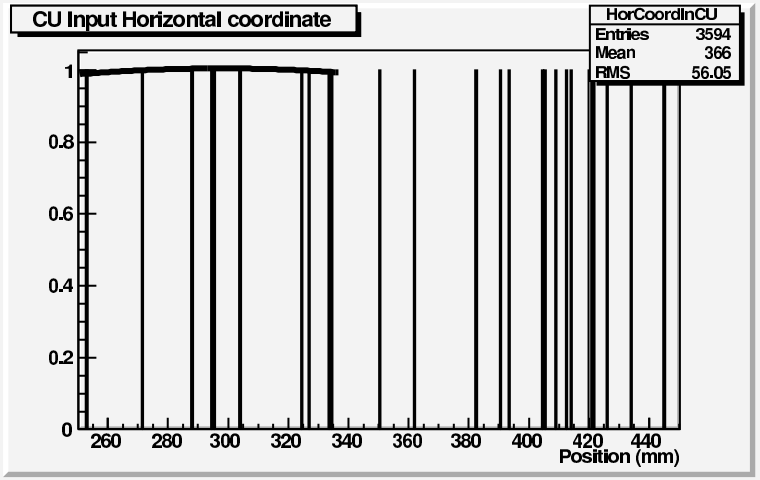

CU Input vertical coordinate
VertCoordInCU
Entries 2307
Mean 32.37
RMS 6.682
Position (mm)

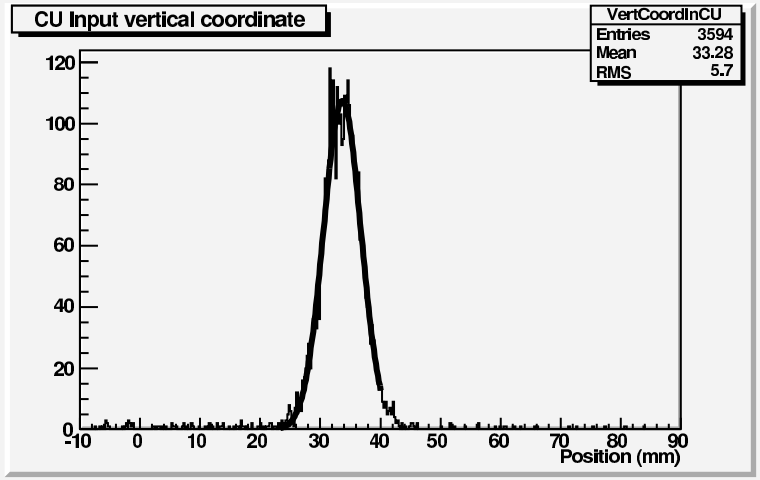

CU Input horizontal angle
HorAngleInCU
Entries 2307
Mean 0
RMS 0
Angle (rad)

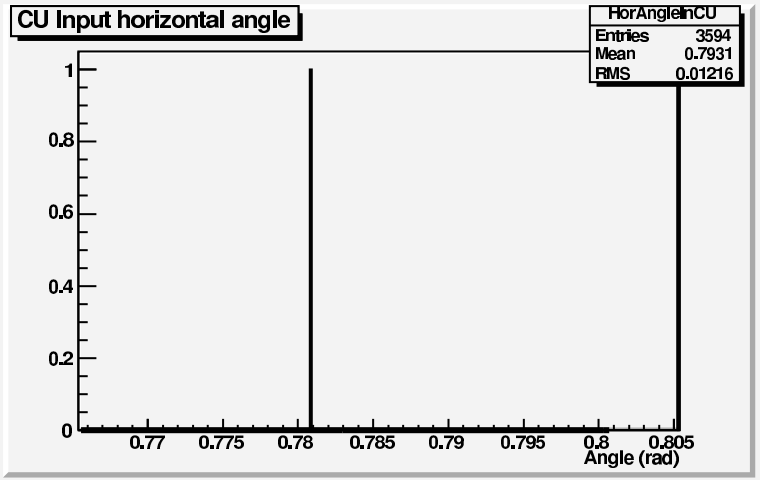

CU Input vertical angle
VertAngleInCU
Entries 2307
Mean 0.004099
RMS 0.001727
Angle (rad)

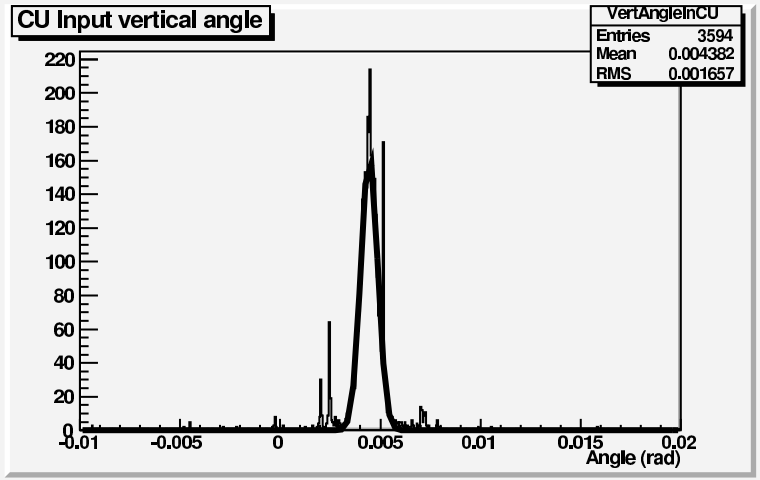

CU Input Beam Spot
SpotCoordInCU
Entries 2307
Mean x 221.7
Mean y 42.97
RMS x 13.65
RMS y 10.99
Vertical Position (mm)
Horizontal Position (mm)

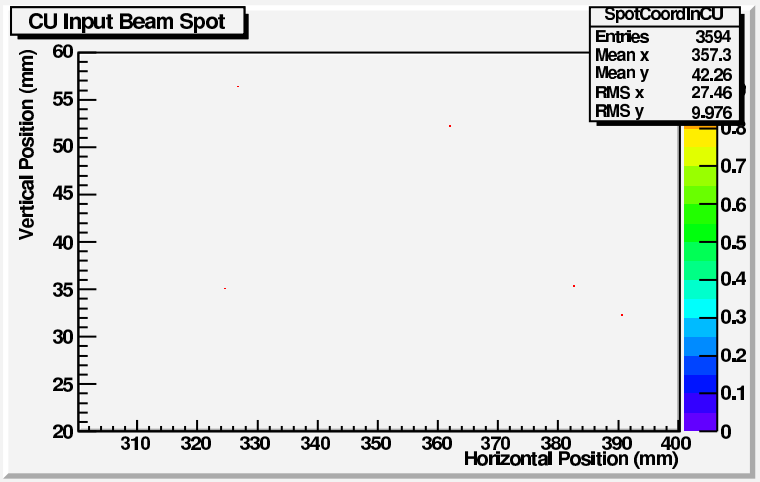

CU Input Beam Spot
SpotAngleInCU
Entries 2307
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

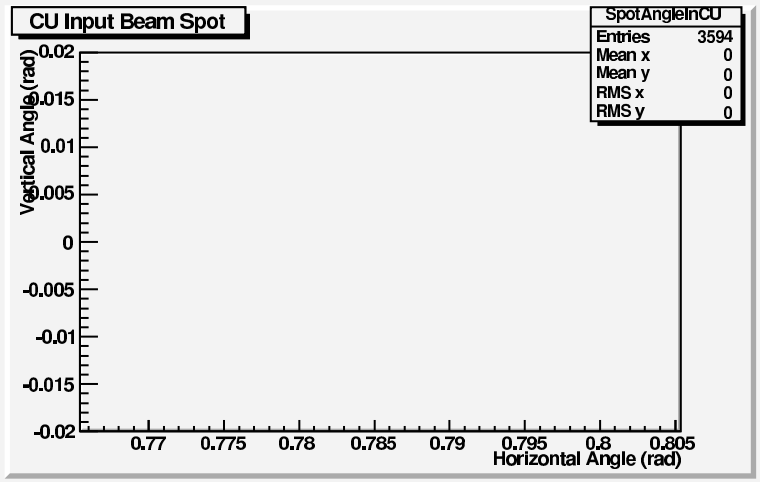

CU Input Horizontal coordinate
HorCoordInCU
Entries 3594
Mean 366
RMS 56.05
Position (mm)

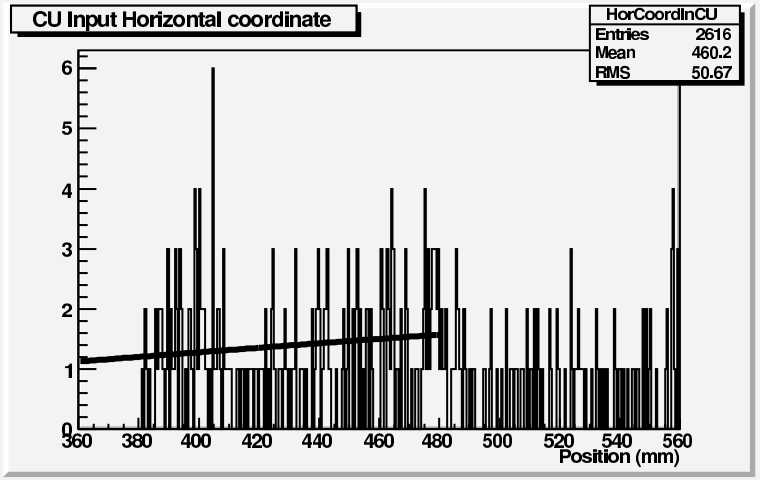

CU Input vertical coordinate
VertCoordInCU
Entries 3594
Mean 33.28
RMS 5.7
Position (mm)

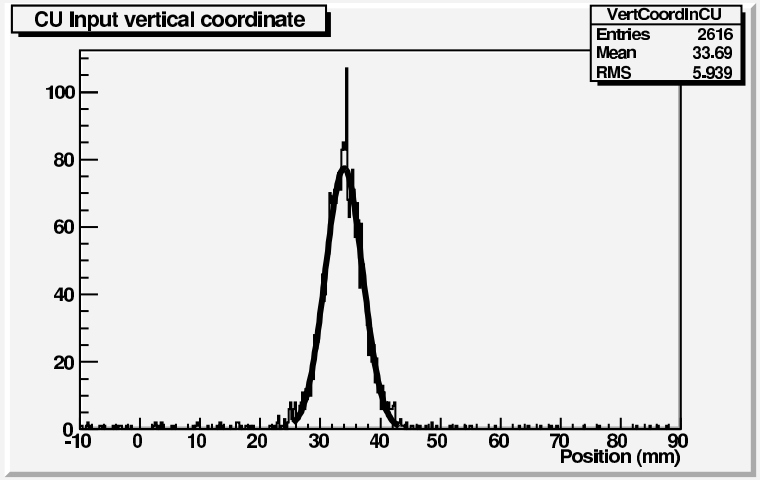

CU Input horizontal angle
HorAngleInCU
Entries 3594
Mean 0.7931
RMS 0.01216
Angle (rad)

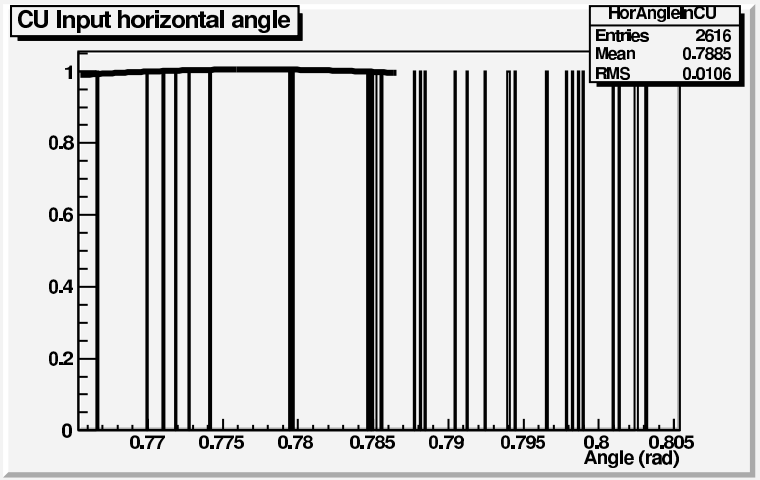

CU Input vertical angle
VertAngleInCU
Entries 3594
Mean 0.004382
RMS 0.001657
Angle (rad)

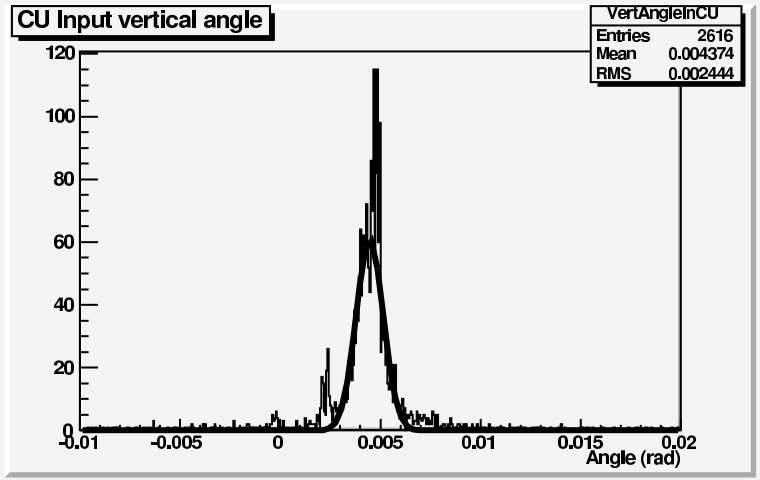

CU Input Beam Spot
SpotCoordInCU
Entries 3594
Mean x 357.3
Mean y 42.26
RMS x 27.46
RMS y 9.976
Vertical Position (mm)
Horizontal Position (mm)

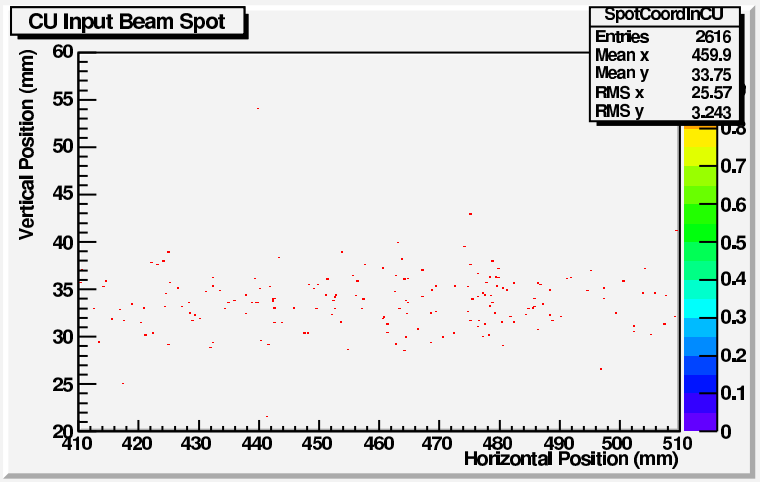

CU Input Beam Spot
SpotAngleInCU
Entries 3594
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

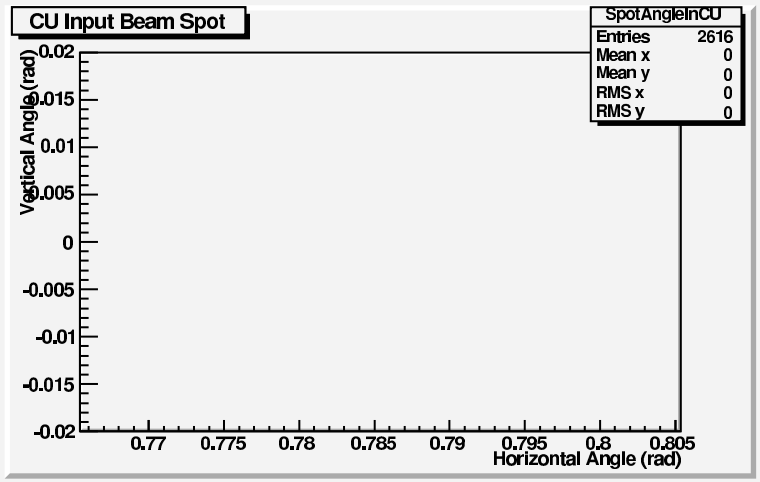

CU Input Horizontal coordinate
HorCoordInCU
Entries 2616
Mean 460.2
RMS 50.67
Position (mm)

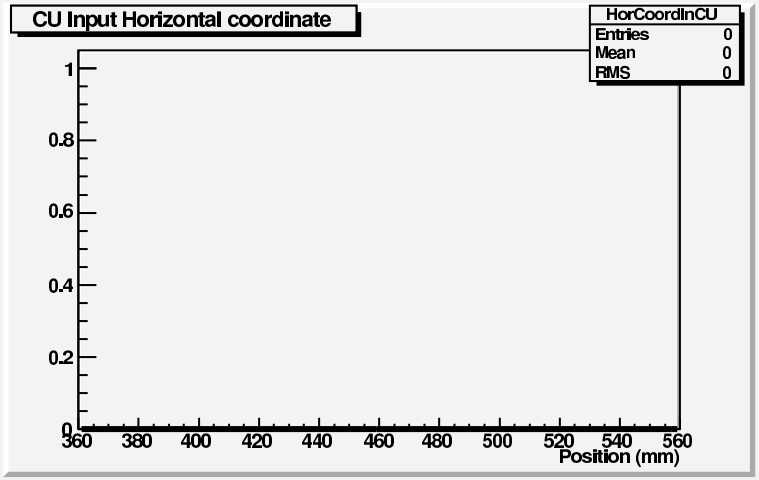

CU Input vertical coordinate
VertCoordInCU
Entries 2616
Mean 33.69
RMS 5.939
Position (mm)

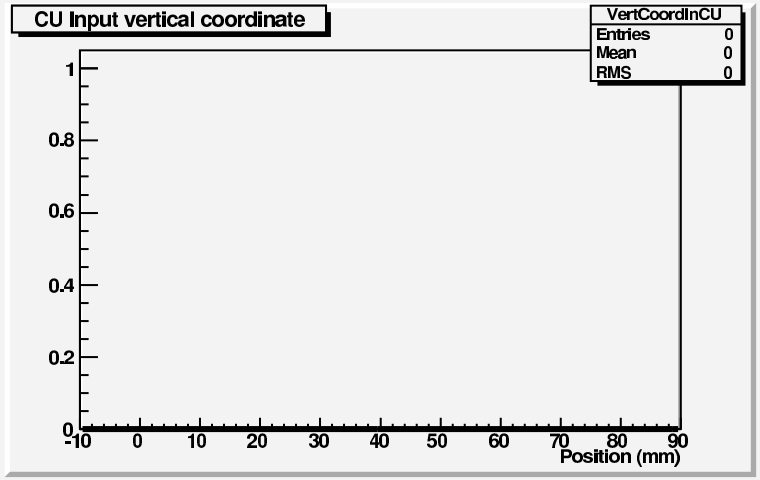

CU Input horizontal angle
HorAngleInCU
Entries 2616
Mean 0.7885
RMS 0.0106
Angle (rad)

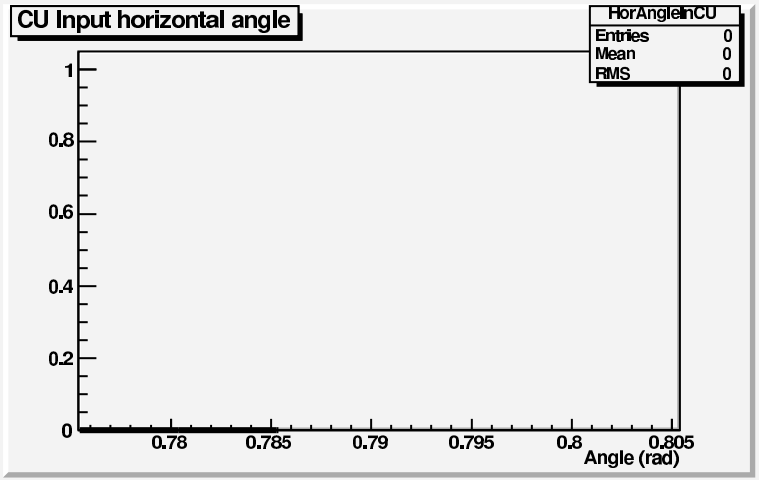

CU Input vertical angle
VertAngleInCU
Entries 2616
Mean 0.004374
RMS 0.002444
Angle (rad)

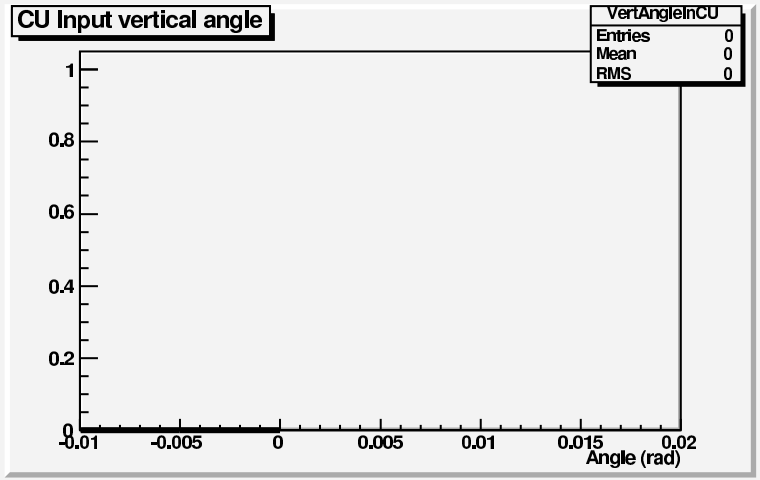

CU Input Beam Spot
SpotCoordInCU
Entries 2616
Mean x 459.9
Mean y 33.75
RMS x 25.57
RMS y 3.243
Vertical Position (mm)
Horizontal Position (mm)

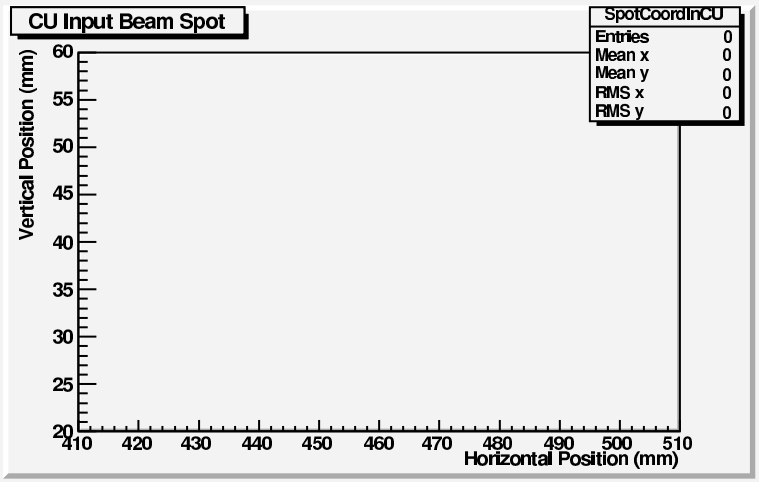

CU Input Beam Spot
SpotAngleInCU
Entries 2616
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

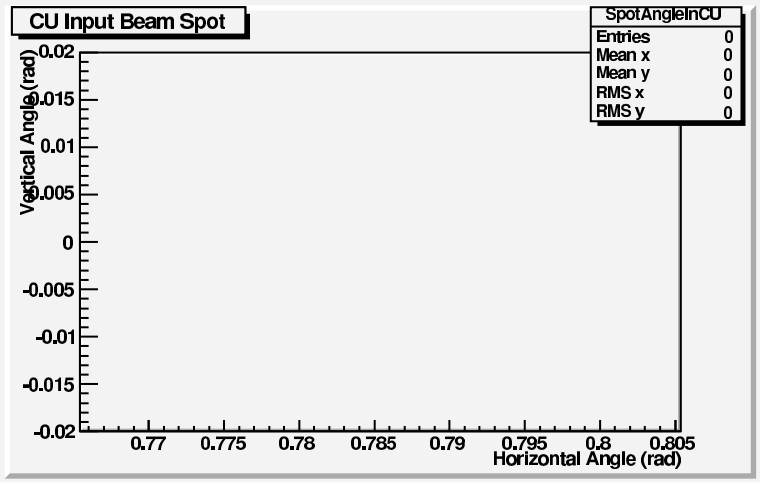

CU Input Horizontal coordinate
HorCoordInCU
Entries 0
Mean 0
RMS 0
Position (mm)

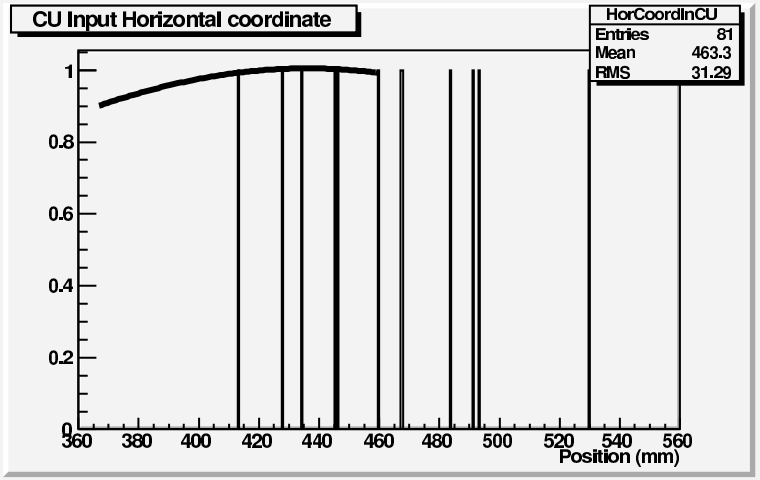

CU Input vertical coordinate
VertCoordInCU
Entries 0
Mean 0
RMS 0
Position (mm)

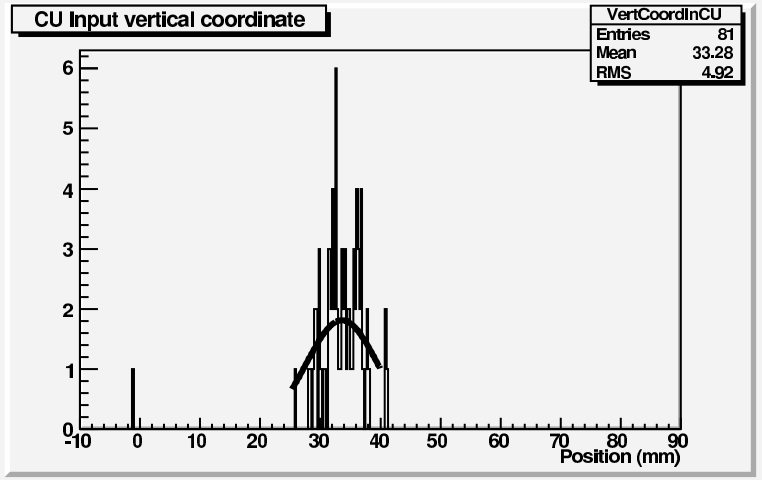

CU Input horizontal angle
HorAngleInCU
Entries 0
Mean 0
RMS 0
Angle (rad)

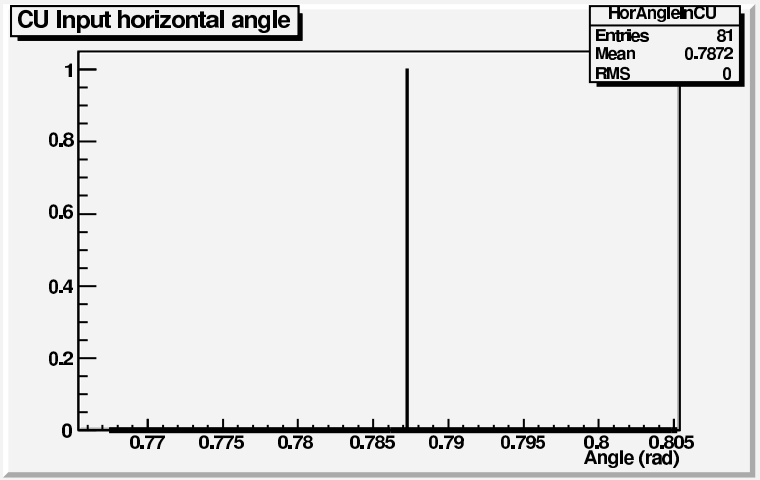

CU Input vertical angle
VertAngleInCU
Entries 0
Mean 0
RMS 0
Angle (rad)

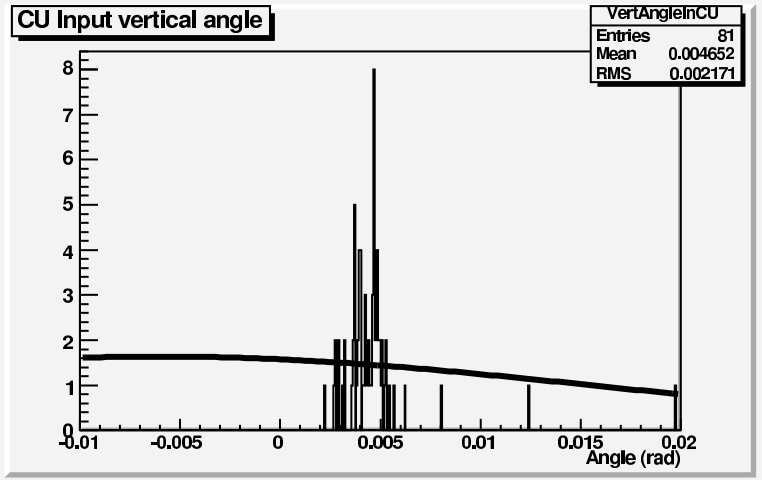

CU Input Beam Spot
SpotCoordInCU
Entries 0
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Position (mm)
Horizontal Position (mm)

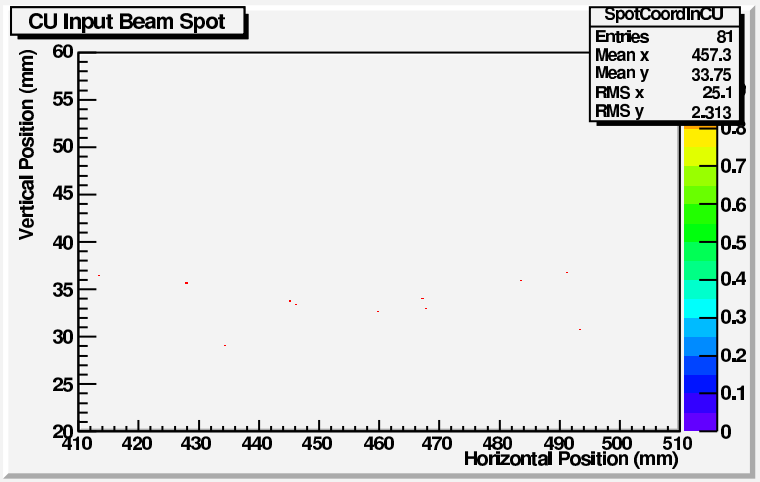

CU Input Beam Spot
SpotAngleInCU
Entries 0
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

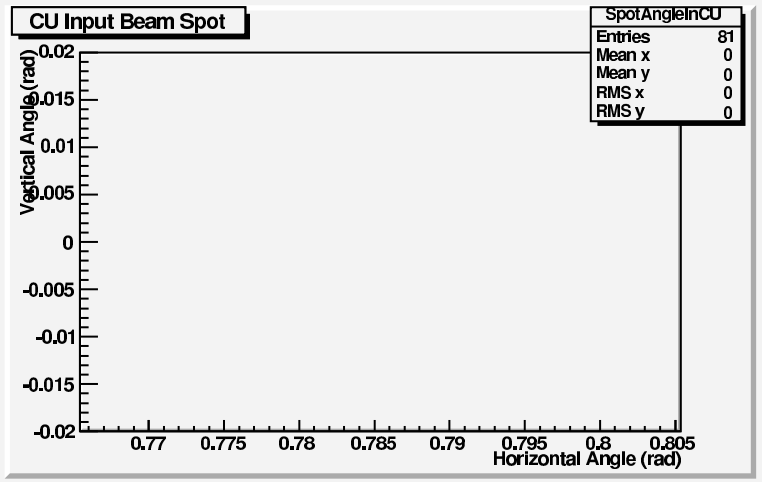

CU Input Horizontal coordinate
HorCoordInCU
Entries 81
Mean 463.3
RMS 31.29
Position (mm)

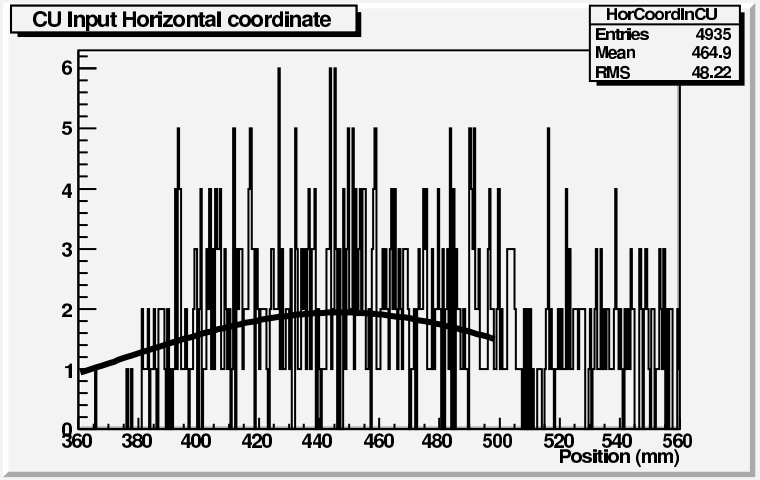

CU Input vertical coordinate
VertCoordInCU
Entries 81
Mean 33.28
RMS 4.92
Position (mm)

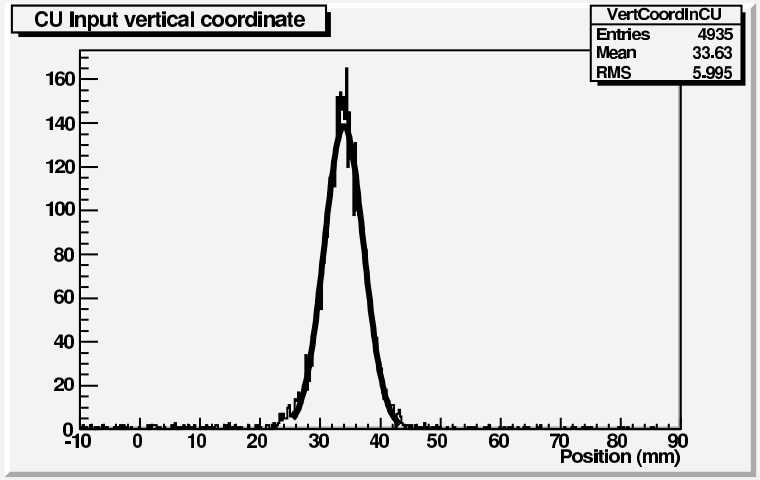

CU Input horizontal angle
HorAngleInCU
Entries 81
Mean 0.7872
RMS 0
Angle (rad)

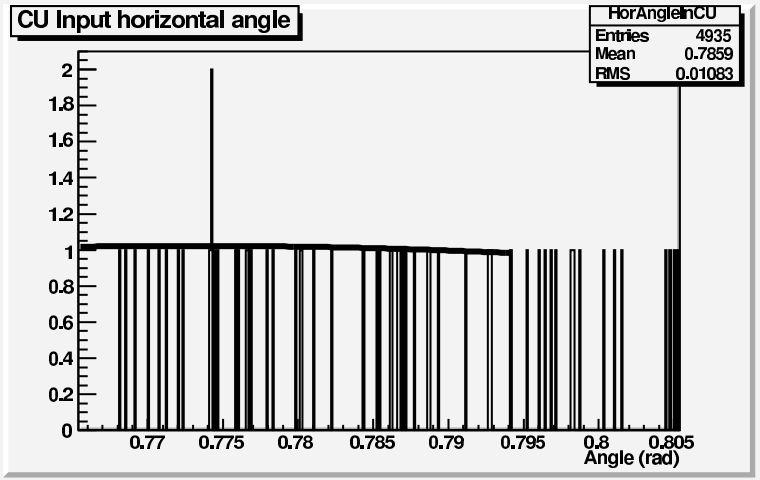

CU Input vertical angle
VertAngleInCU
Entries 81
Mean 0.004652
RMS 0.002171
Angle (rad)

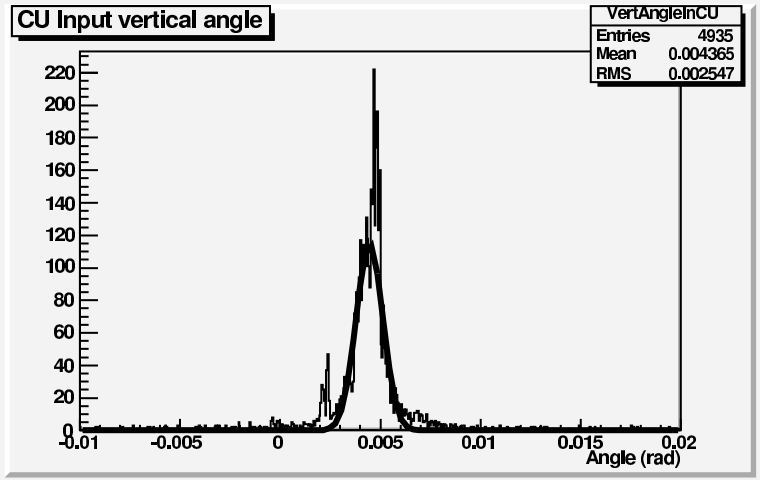

CU Input Beam Spot
SpotCoordInCU
Entries 81
Mean x 457.3
Mean y 33.75
RMS x 25.1
RMS y 2.313
Vertical Position (mm)
Horizontal Position (mm)

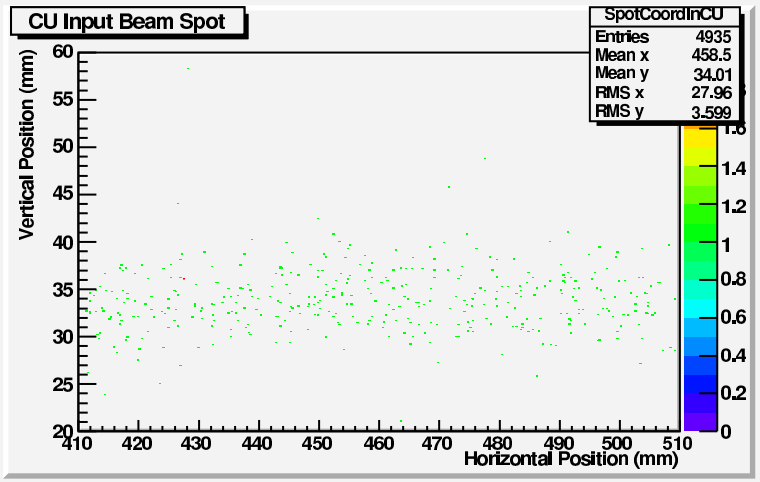

CU Input Beam Spot
SpotAngleInCU
Entries 81
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

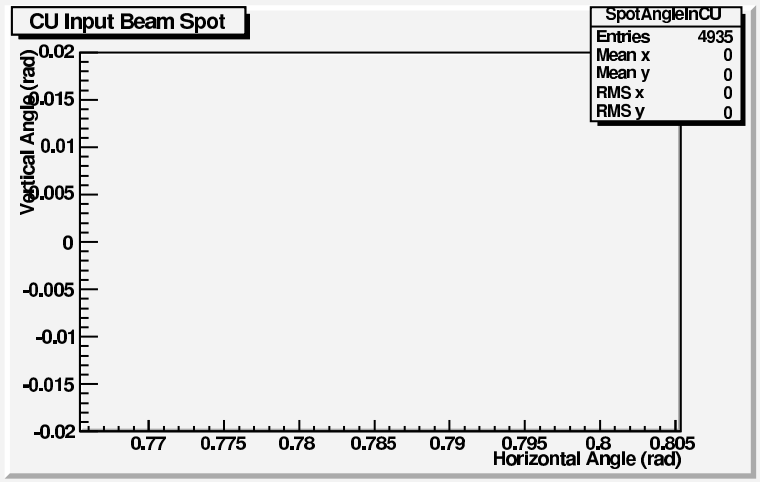

CU Input Horizontal coordinate
HorCoordInCU
Entries 4935
Mean 464.9
RMS 48.22
Position (mm)

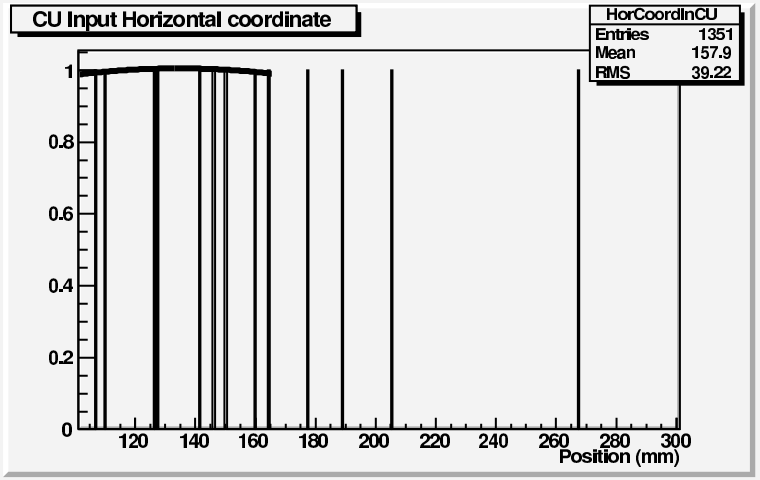

CU Input vertical coordinate
VertCoordInCU
Entries 4935
Mean 33.63
RMS 5.995
Position (mm)

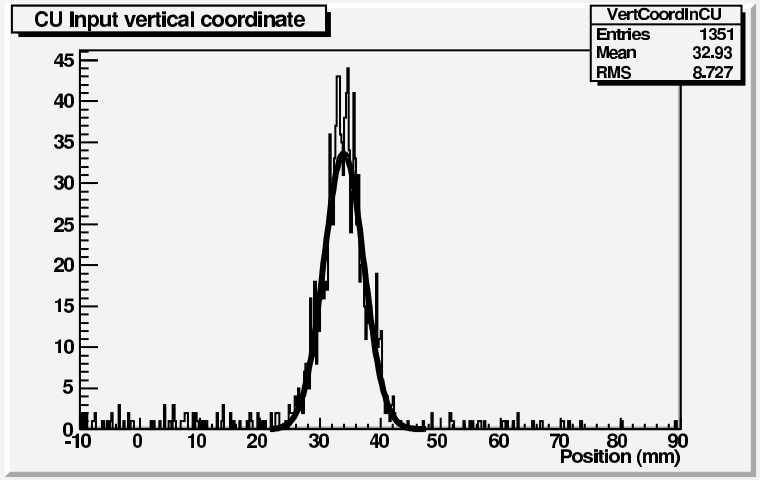

CU Input horizontal angle
HorAngleInCU
Entries 4935
Mean 0.7859
RMS 0.01083
Angle (rad)

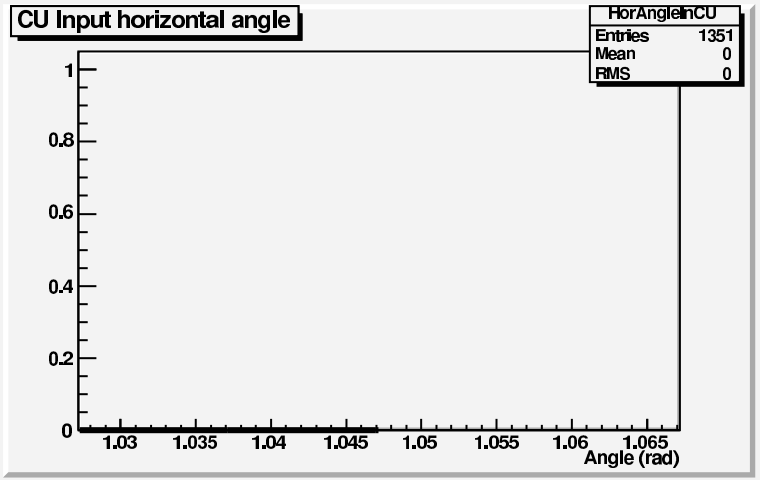

CU Input vertical angle
VertAngleInCU
Entries 4935
Mean 0.004365
RMS 0.002547
Angle (rad)

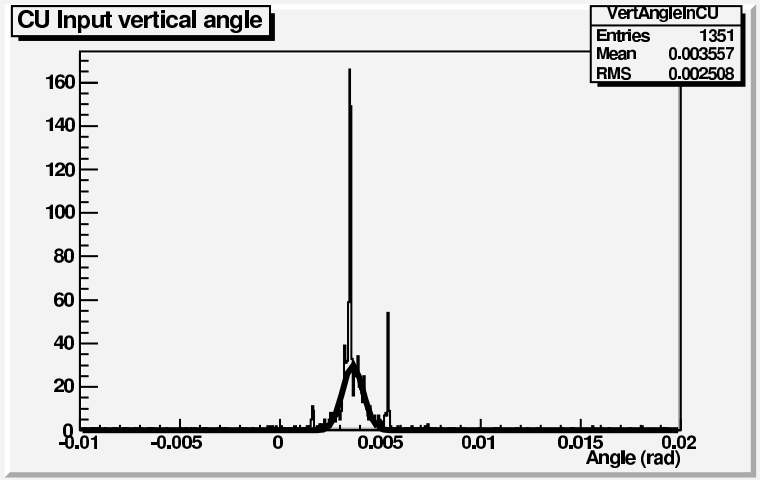

CU Input Beam Spot
SpotCoordInCU
Entries 4935
Mean x 458.5
Mean y 34.01
RMS x 27.96
RMS y 3.599
Vertical Position (mm)
Horizontal Position (mm)

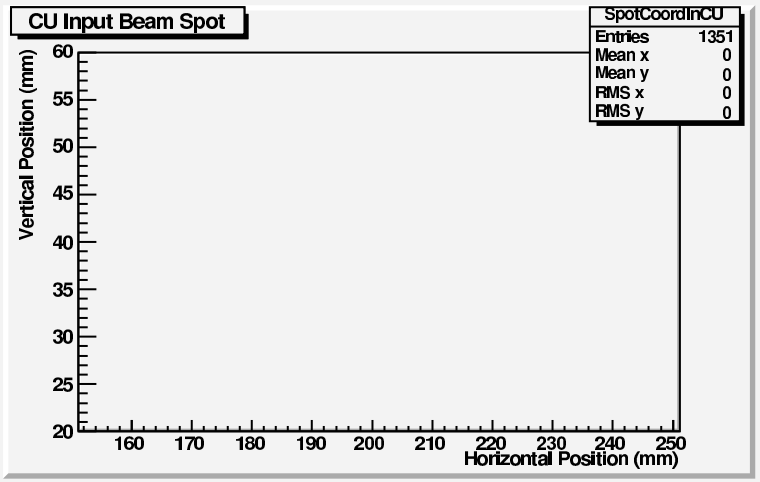

CU Input Beam Spot
SpotAngleInCU
Entries 4935
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

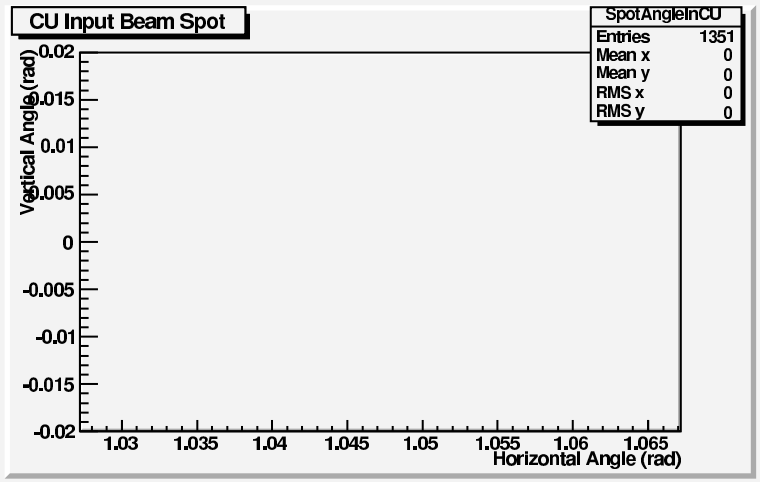

CU Input Horizontal coordinate
HorCoordInCU
Entries 1351
Mean 157.9
RMS 39.22
Position (mm)

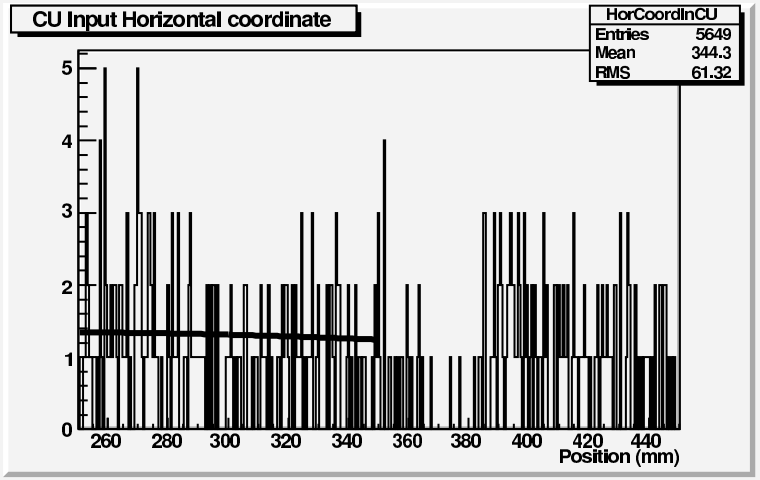

CU Input vertical coordinate
VertCoordInCU
Entries 1351
Mean 32.93
RMS 8.727
Position (mm)

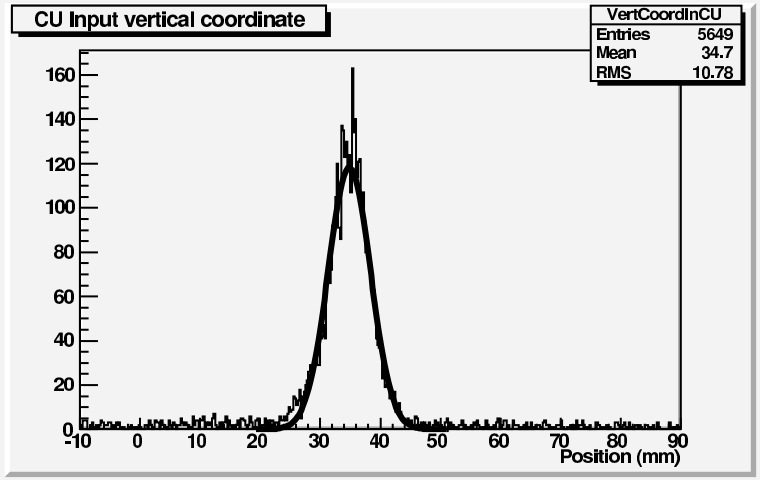

CU Input horizontal angle
HorAngleInCU
Entries 1351
Mean 0
RMS 0
Angle (rad)

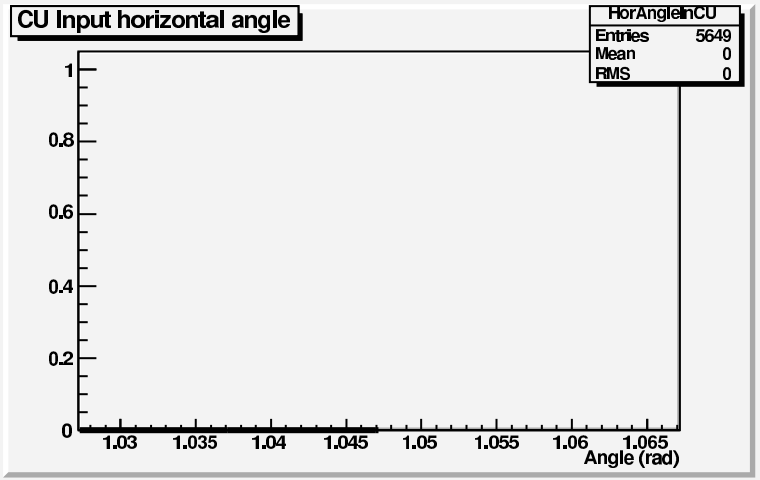

CU Input vertical angle
VertAngleInCU
Entries 1351
Mean 0.003557
RMS 0.002508
Angle (rad)

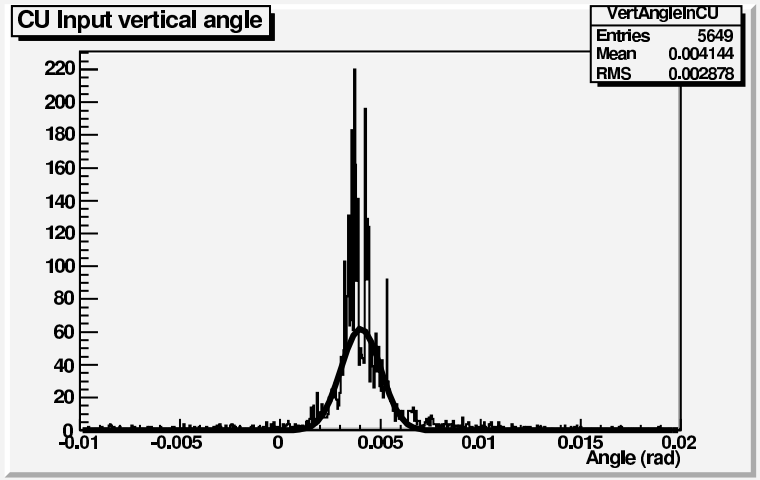

CU Input Beam Spot
SpotCoordInCU
Entries 1351
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Position (mm)
Horizontal Position (mm)

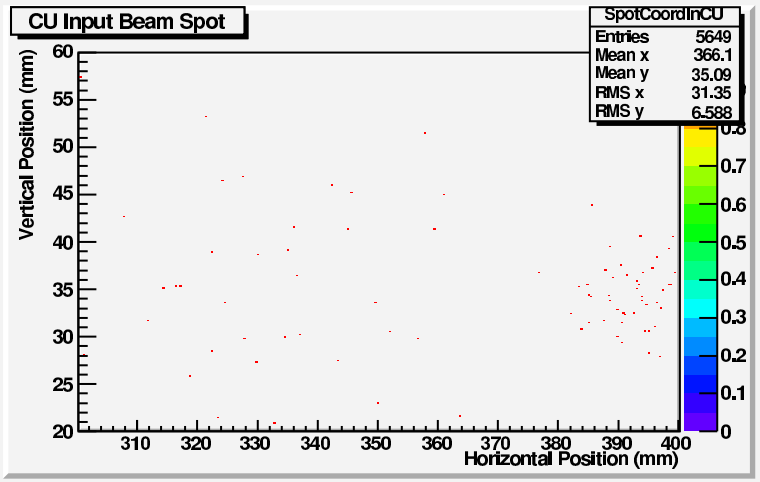

CU Input Beam Spot
SpotAngleInCU
Entries 1351
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

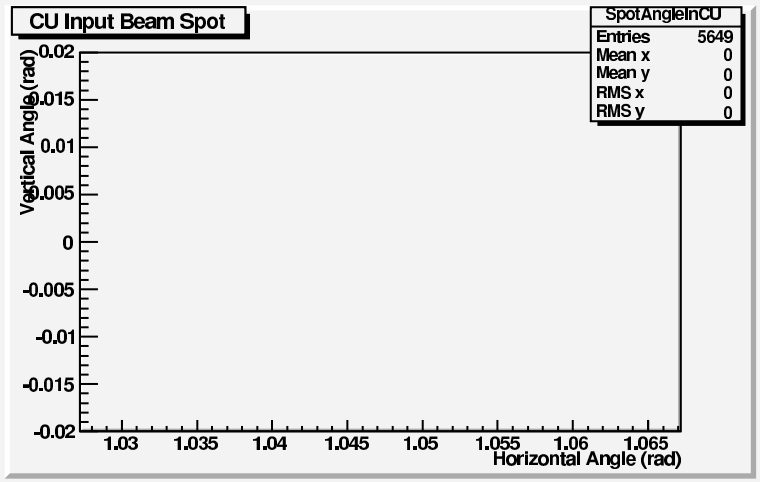

CU Input Horizontal coordinate
HorCoordInCU
Entries 5649
Mean 344.3
RMS 61.32
Position (mm)

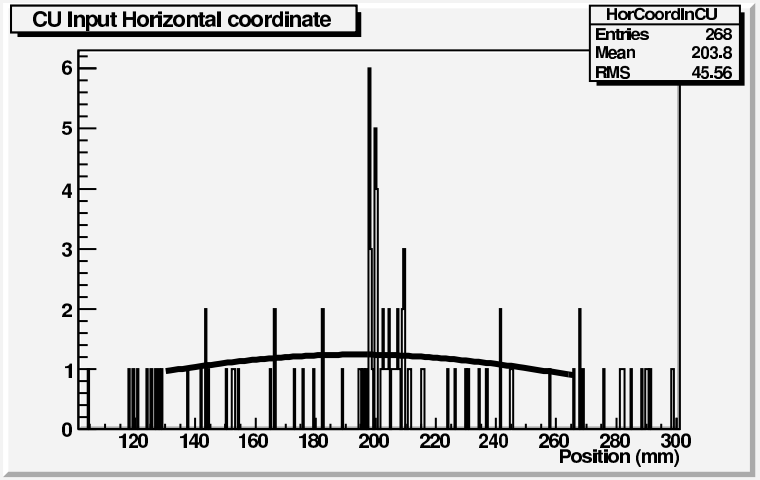

CU Input vertical coordinate
VertCoordInCU
Entries 5649
Mean 34.7
RMS 10.78
Position (mm)

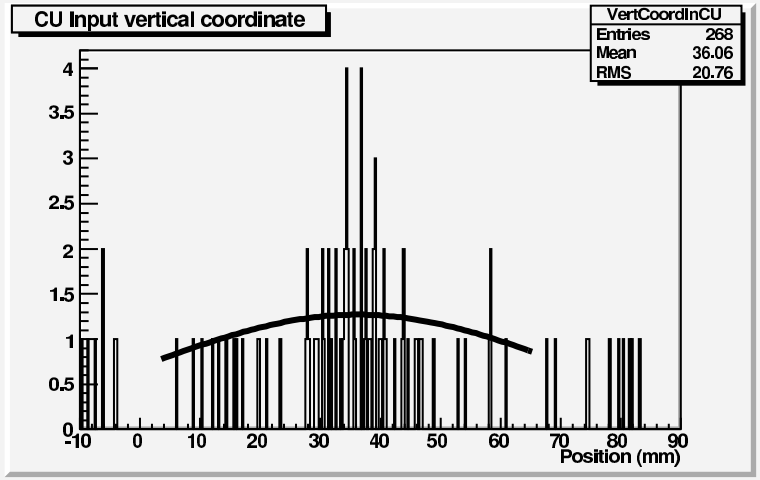

CU Input horizontal angle
HorAngleInCU
Entries 5649
Mean 0
RMS 0
Angle (rad)

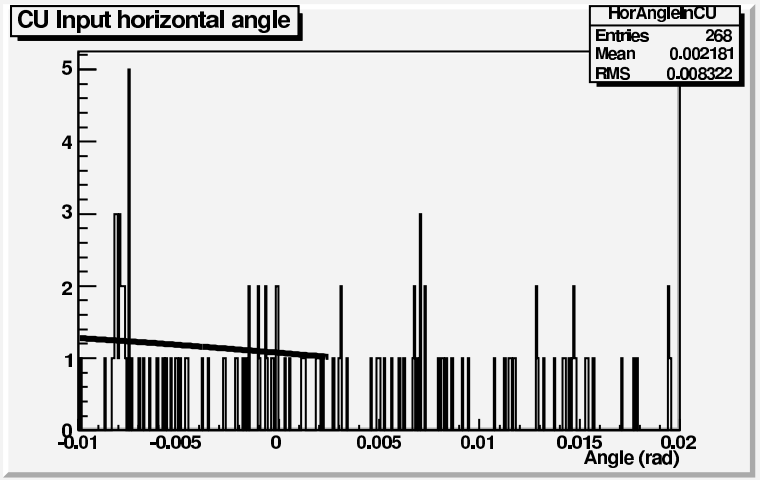

CU Input vertical angle
VertAngleInCU
Entries 5649
Mean 0.004144
RMS 0.002878
Angle (rad)

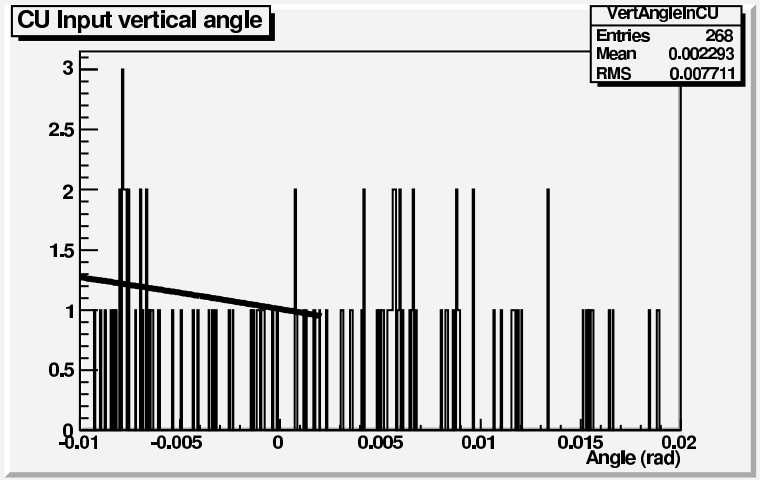

CU Input Beam Spot
SpotCoordInCU
Entries 5649
Mean x 366.1
Mean y 35.09
RMS x 31.35
RMS y 6.588
Vertical Position (mm)
Horizontal Position (mm)

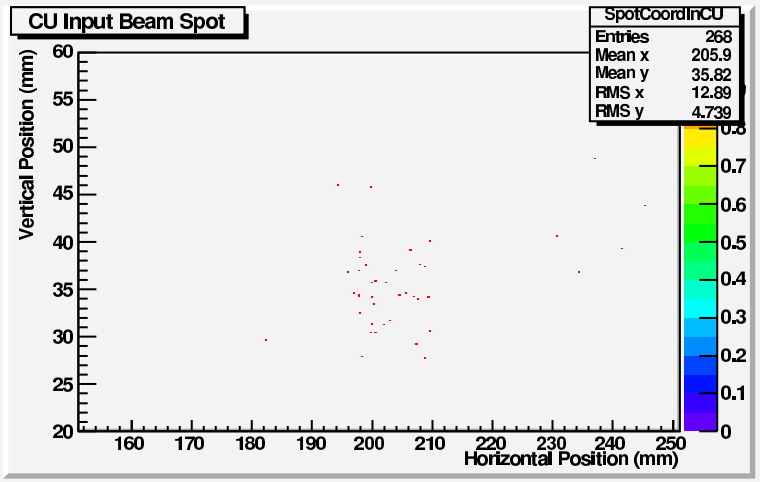

CU Input Beam Spot
SpotAngleInCU
Entries 5649
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

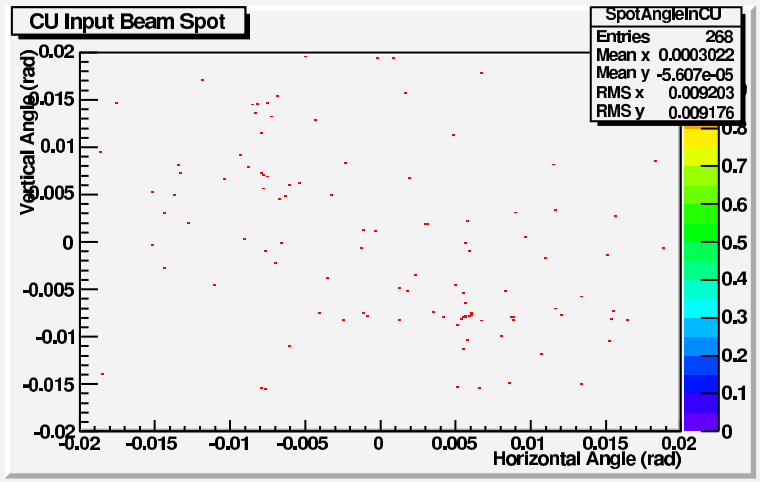

CU Input Horizontal coordinate
HorCoordInCU
Entries 268
Mean 203.8
RMS 45.56
Position (mm)

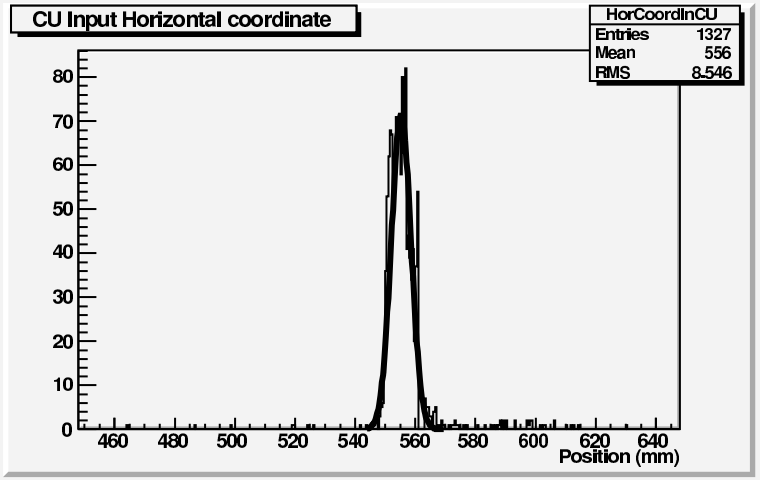

CU Input vertical coordinate
VertCoordInCU
Entries 268
Mean 36.06
RMS 20.76
Position (mm)

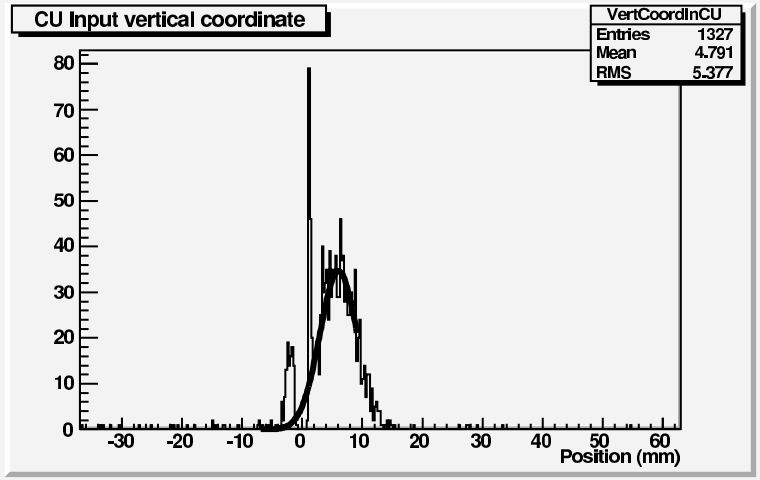

CU Input horizontal angle
HorAngleInCU
Entries 268
Mean 0.002181
RMS 0.008322
Angle (rad)

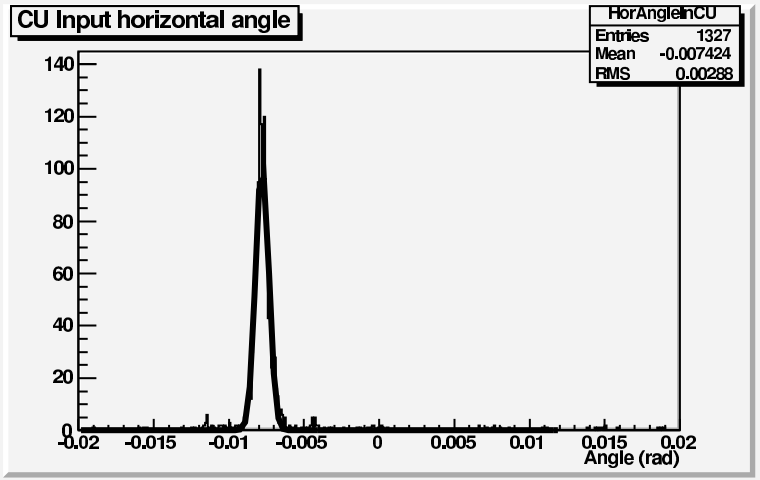

CU Input vertical angle
VertAngleInCU
Entries 268
Mean 0.002293
RMS 0.007711
Angle (rad)

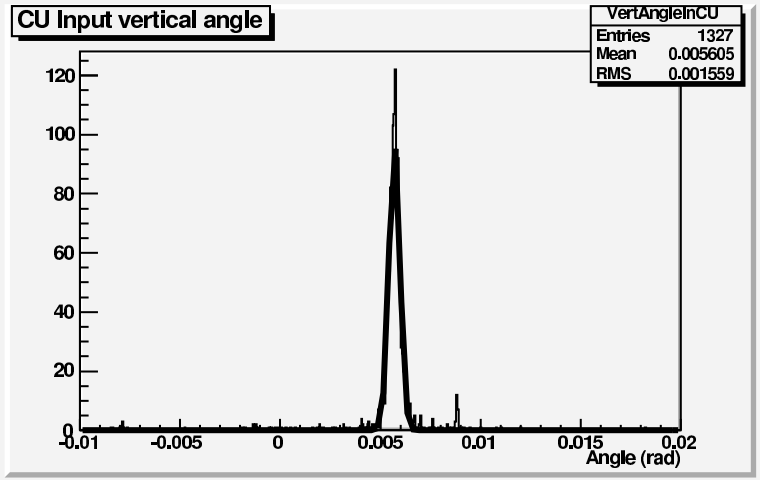

CU Input Beam Spot
SpotCoordInCU
Entries 268
Mean x 205.9
Mean y 35.82
RMS x 12.89
RMS y 4.739
Vertical Position (mm)
Horizontal Position (mm)

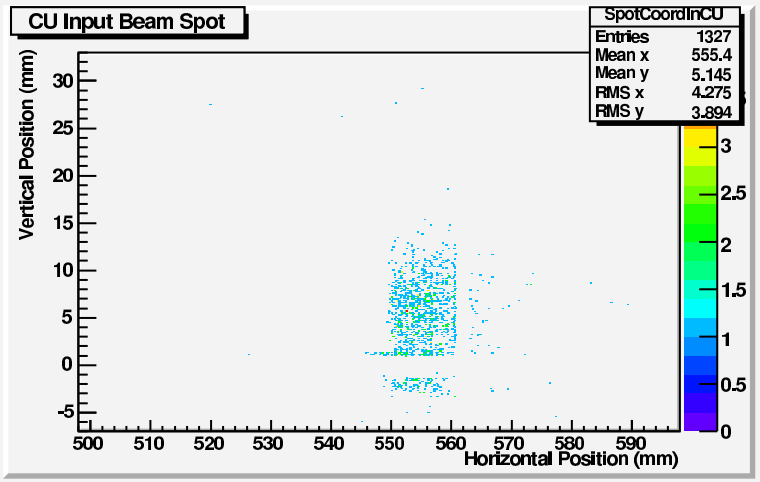

CU Input Beam Spot
SpotAngleInCU
Entries 268
Mean x 0.0003022
Mean y -5.607e-05
RMS x 0.009203
RMS y 0.009176
Vertical Angle (rad)
Horizontal Angle (rad)

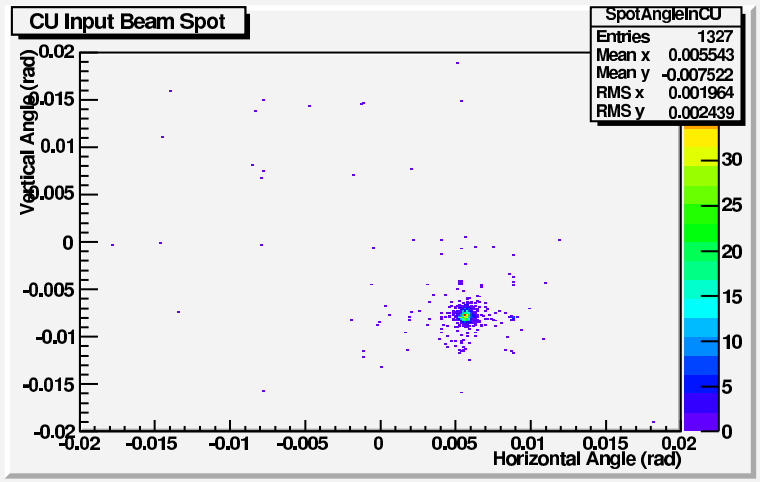

CU Input Horizontal coordinate
HorCoordInCU
Entries 1327
Mean 556
RMS 8.546
Position (mm)

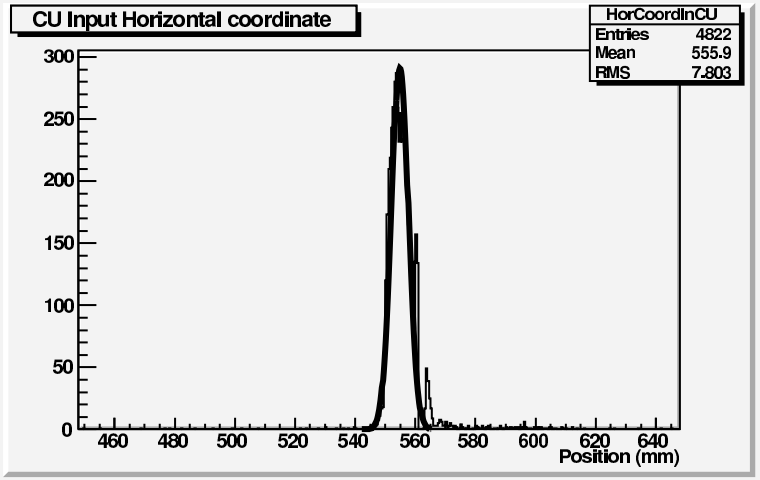

CU Input vertical coordinate
VertCoordInCU
Entries 1327
Mean 4.791
RMS 5.377
Position (mm)

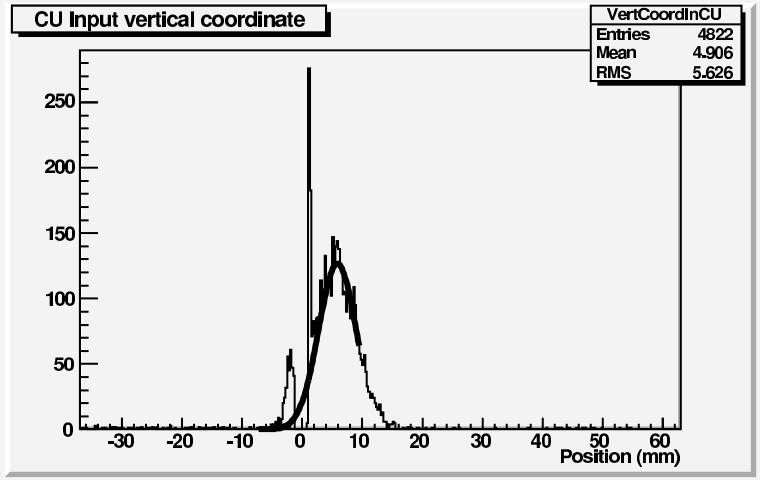

CU Input horizontal angle
HorAngleInCU
Entries 1327
Mean -0.007424
RMS 0.00288
Angle (rad)

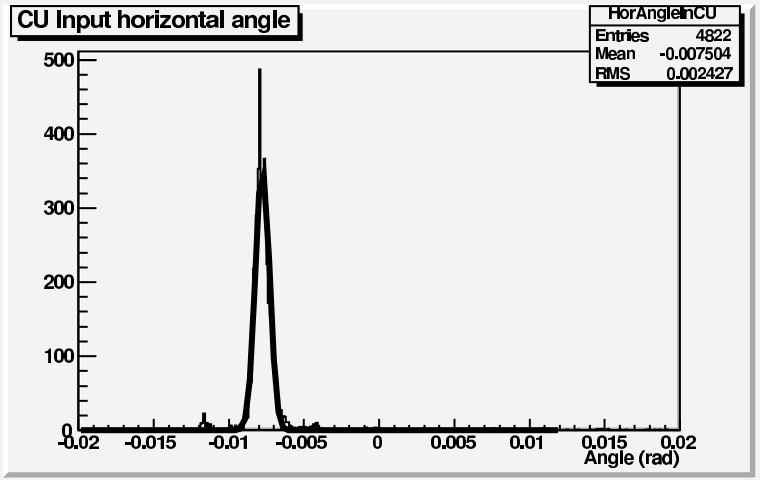

CU Input vertical angle
VertAngleInCU
Entries 1327
Mean 0.005605
RMS 0.001559
Angle (rad)

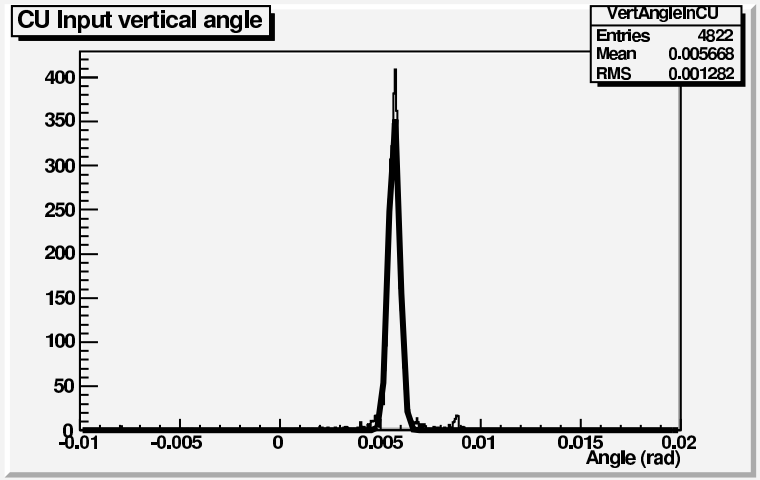

CU Input Beam Spot
SpotCoordInCU
Entries 1327
Mean x 555.4
Mean y 5.145
RMS x 4.275
RMS y 3.894
Vertical Position (mm)
Horizontal Position (mm)

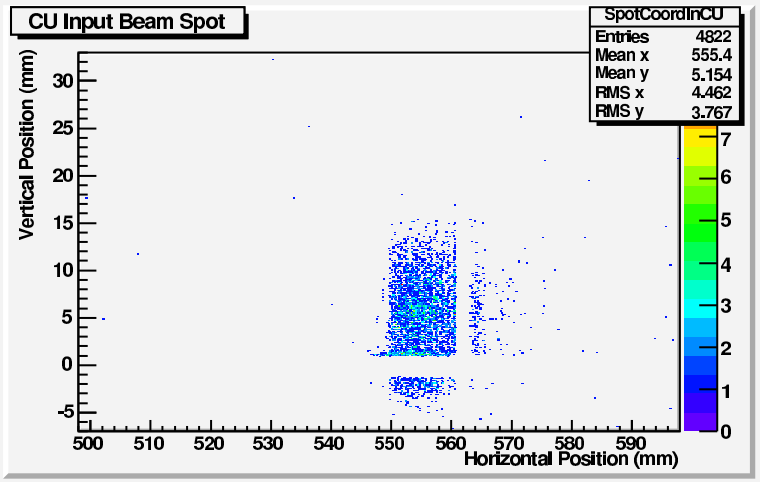

CU Input Beam Spot
SpotAngleInCU
Entries 1327
Mean x 0.005543
Mean y -0.007522
RMS x 0.001964
RMS y 0.002439
Vertical Angle (rad)
Horizontal Angle (rad)

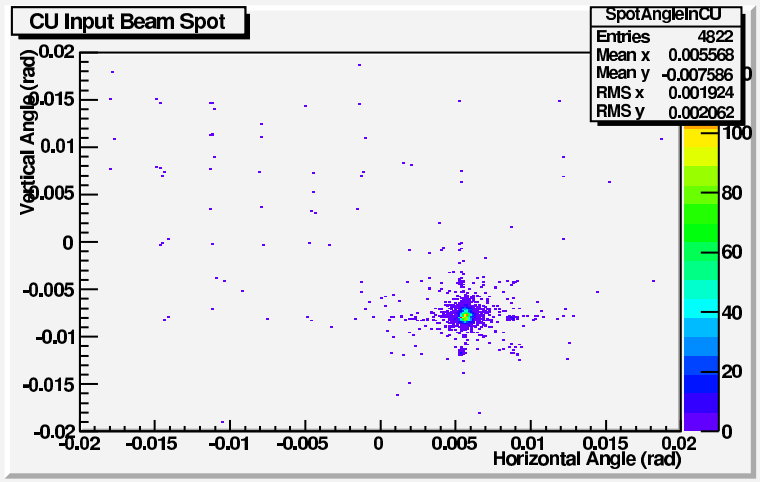

CU Input Horizontal coordinate
HorCoordInCU
Entries 4822
Mean 555.9
RMS 7.803
Position (mm)

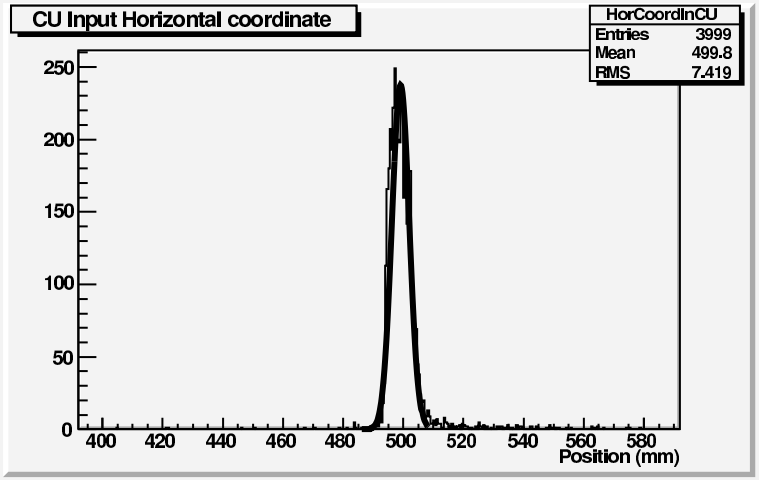

CU Input vertical coordinate
VertCoordInCU
Entries 4822
Mean 4.906
RMS 5.626
Position (mm)

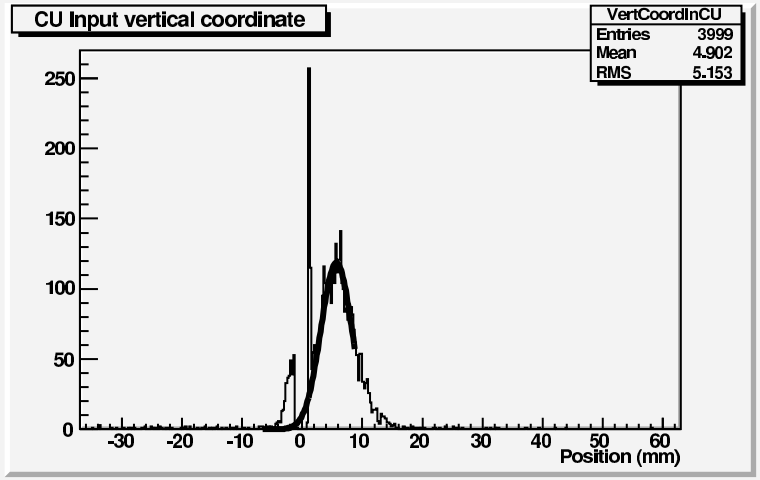

CU Input horizontal angle
HorAngleInCU
Entries 4822
Mean -0.007504
RMS 0.002427
Angle (rad)

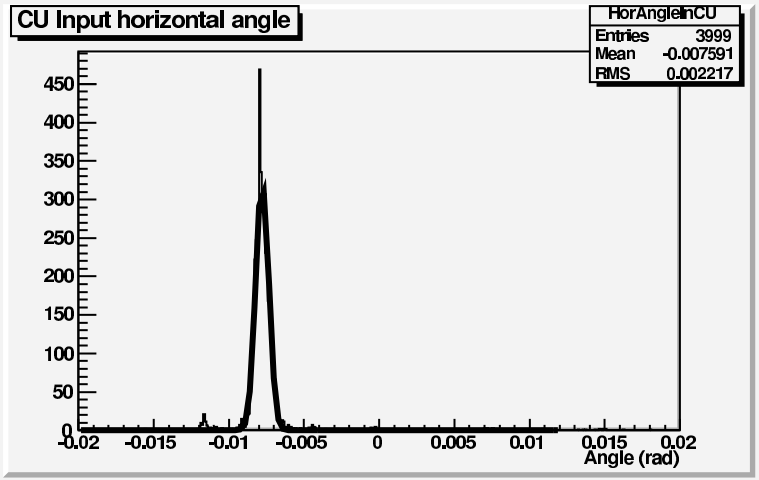

CU Input vertical angle
VertAngleInCU
Entries 4822
Mean 0.005668
RMS 0.001282
Angle (rad)

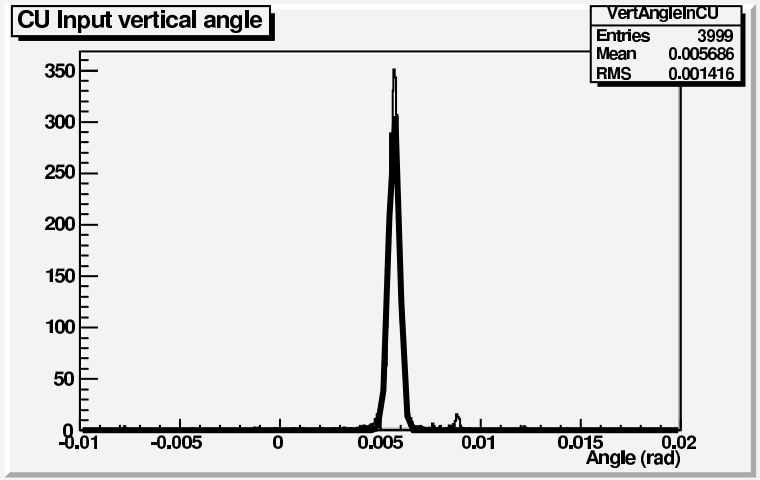

CU Input Beam Spot
SpotCoordInCU
Entries 4822
Mean x 555.4
Mean y 5.154
RMS x 4.462
RMS y 3.767
Vertical Position (mm)
Horizontal Position (mm)

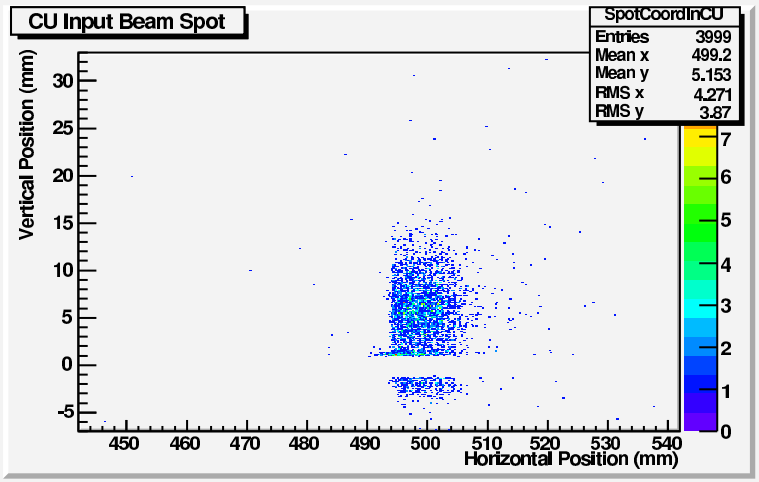

CU Input Beam Spot
SpotAngleInCU
Entries 4822
Mean x 0.005568
Mean y -0.007586
RMS x 0.001924
RMS y 0.002062
Vertical Angle (rad)
Horizontal Angle (rad)

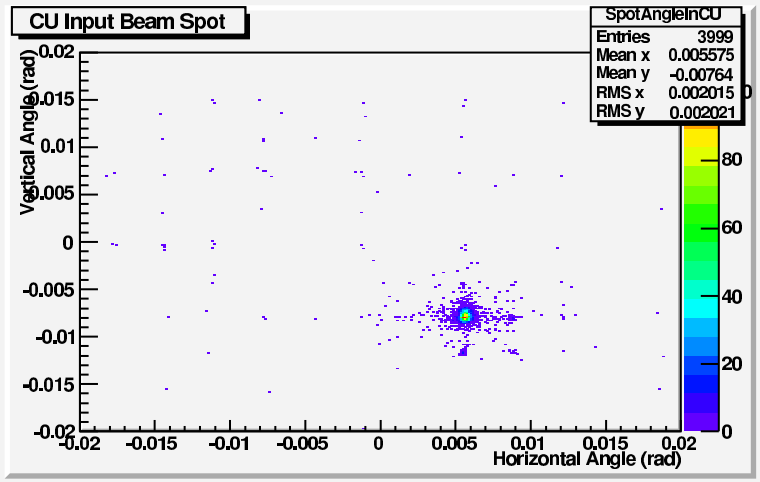

CU Input Horizontal coordinate
HorCoordInCU
Entries 3999
Mean 499.8
RMS 7.419
Position (mm)

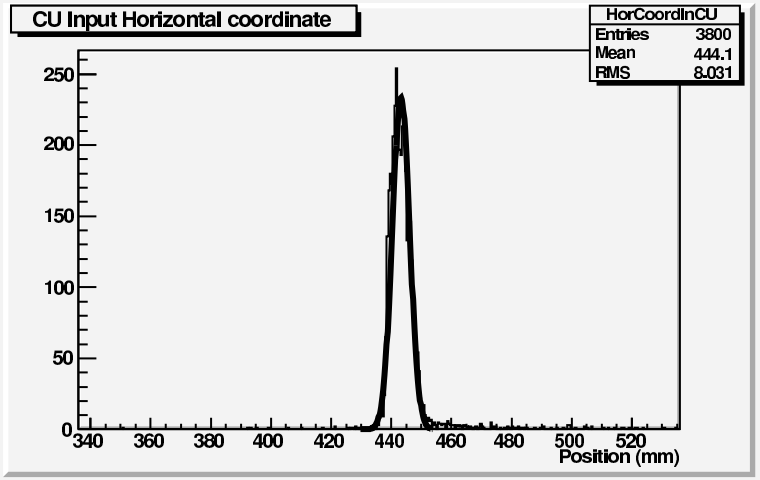

CU Input vertical coordinate
VertCoordInCU
Entries 3999
Mean 4.902
RMS 5.153
Position (mm)

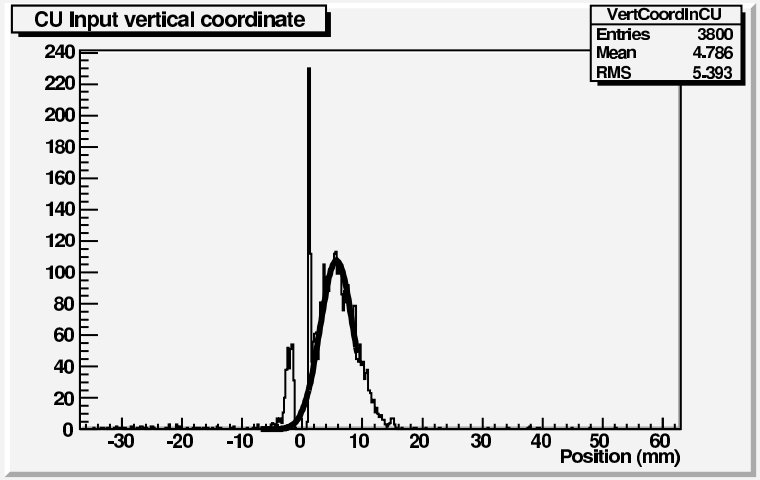

CU Input horizontal angle
HorAngleInCU
Entries 3999
Mean -0.007591
RMS 0.002217
Angle (rad)

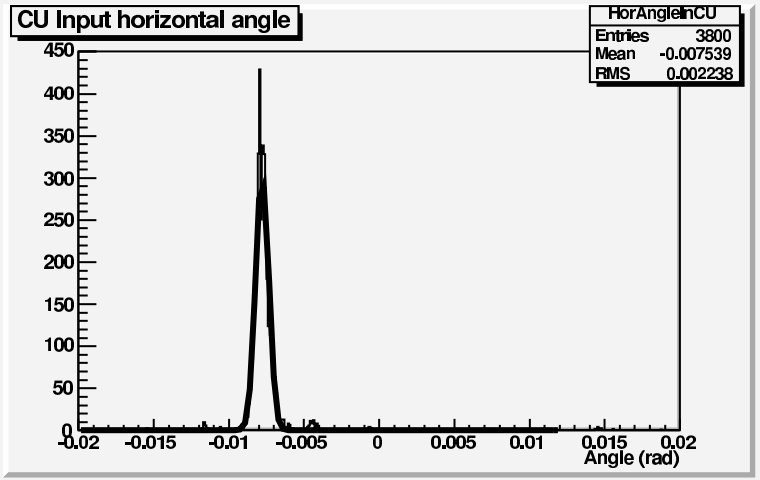

CU Input vertical angle
VertAngleInCU
Entries 3999
Mean 0.005686
RMS 0.001416
Angle (rad)

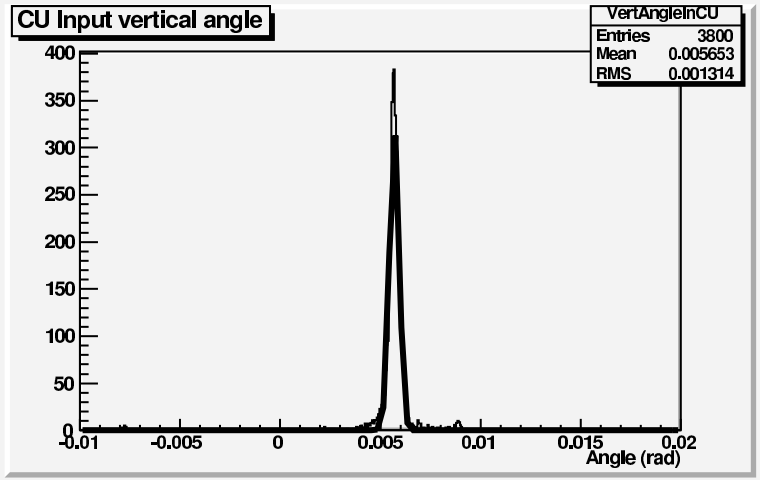

CU Input Beam Spot
SpotCoordInCU
Entries 3999
Mean x 499.2
Mean y 5.153
RMS x 4.271
RMS y 3.87
Vertical Position (mm)
Horizontal Position (mm)

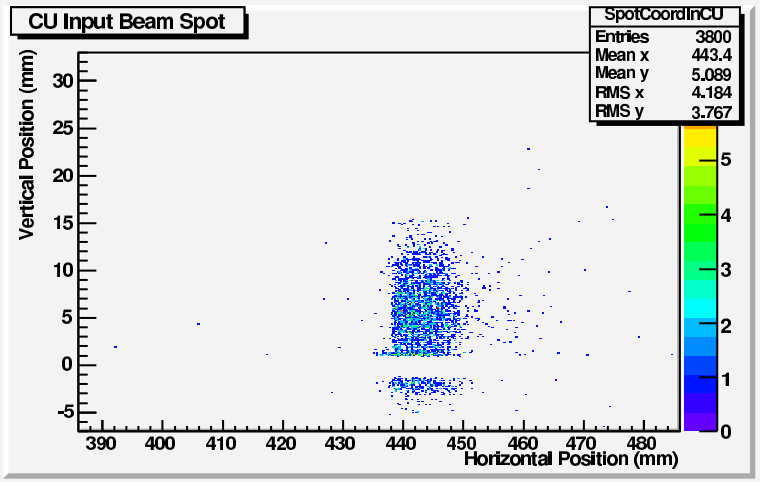

CU Input Beam Spot
SpotAngleInCU
Entries 3999
Mean x 0.005575
Mean y -0.00764
RMS x 0.002015
RMS y 0.002021
Vertical Angle (rad)
Horizontal Angle (rad)

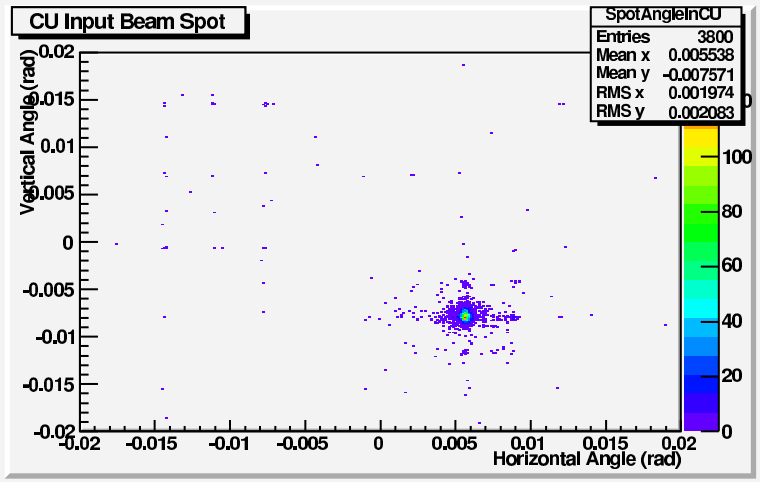

CU Input Horizontal coordinate
HorCoordInCU
Entries 3800
Mean 444.1
RMS 8.031
Position (mm)

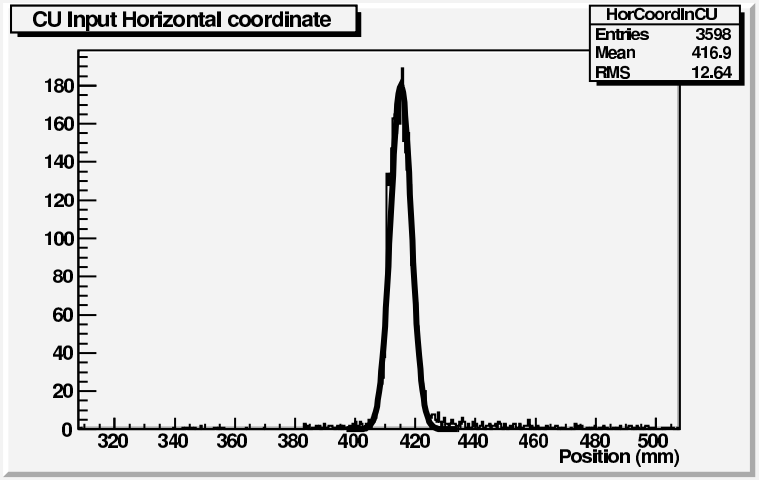

CU Input vertical coordinate
VertCoordInCU
Entries 3800
Mean 4.786
RMS 5.393
Position (mm)

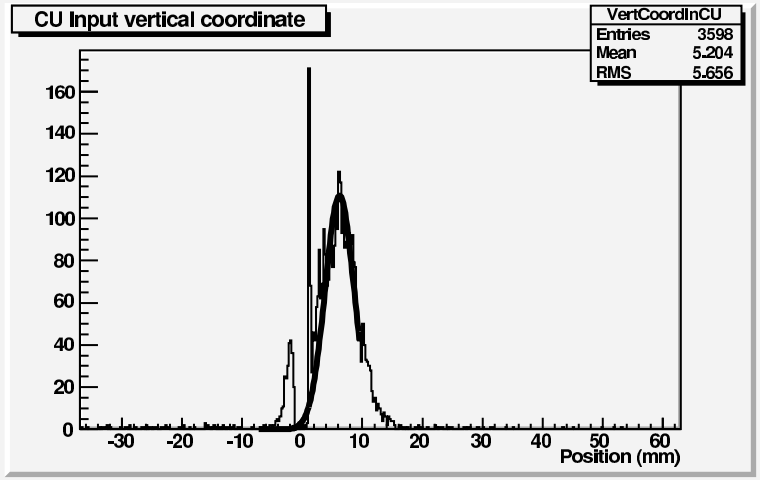

CU Input horizontal angle
HorAngleInCU
Entries 3800
Mean -0.007539
RMS 0.002238
Angle (rad)

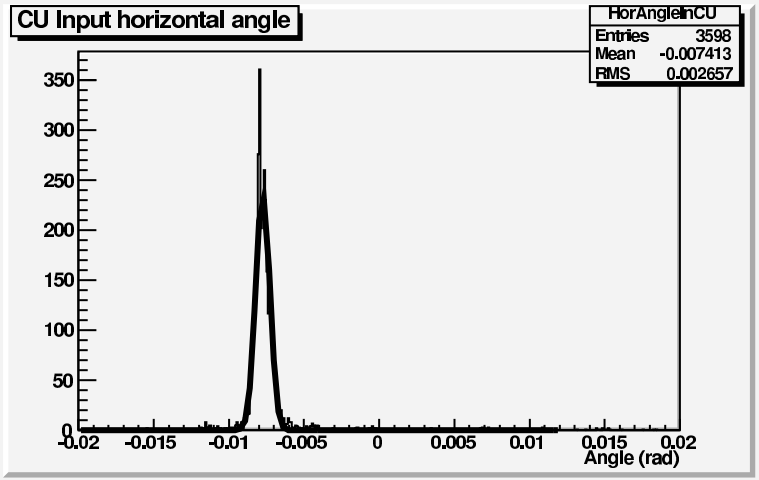

CU Input vertical angle
VertAngleInCU
Entries 3800
Mean 0.005653
RMS 0.001314
Angle (rad)

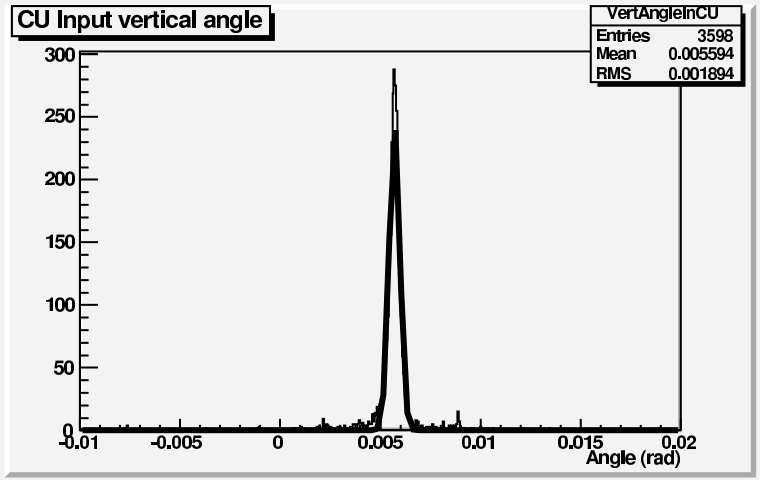

CU Input Beam Spot
SpotCoordInCU
Entries 3800
Mean x 443.4
Mean y 5.089
RMS x 4.184
RMS y 3.767
Vertical Position (mm)
Horizontal Position (mm)

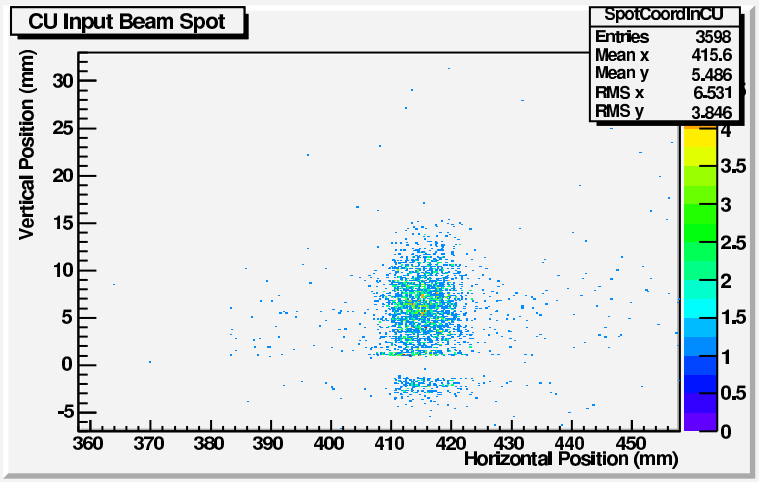

CU Input Beam Spot
SpotAngleInCU
Entries 3800
Mean x 0.005538
Mean y -0.007571
RMS x 0.001974
RMS y 0.002083
Vertical Angle (rad)
Horizontal Angle (rad)

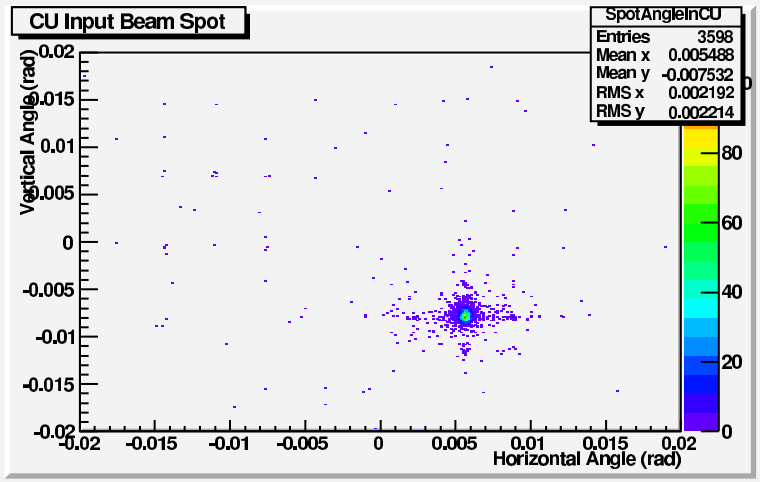

CU Input Horizontal coordinate
HorCoordInCU
Entries 3598
Mean 416.9
RMS 12.64
Position (mm)

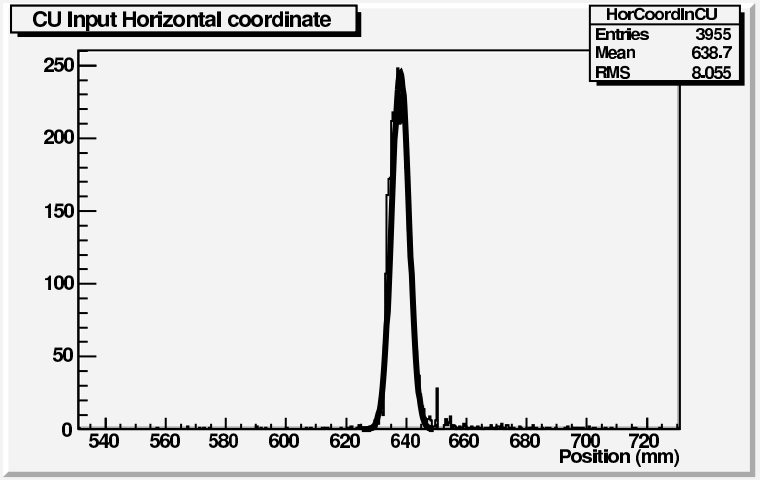

CU Input vertical coordinate
VertCoordInCU
Entries 3598
Mean 5.204
RMS 5.656
Position (mm)

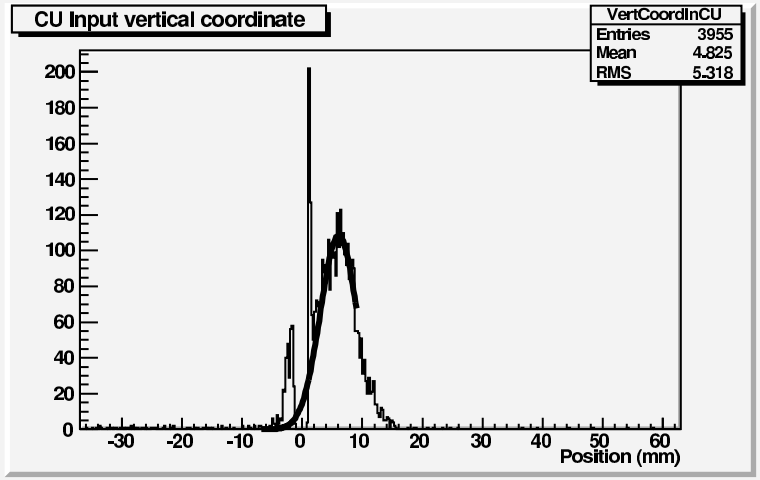

CU Input horizontal angle
HorAngleInCU
Entries 3598
Mean -0.007413
RMS 0.002657
Angle (rad)

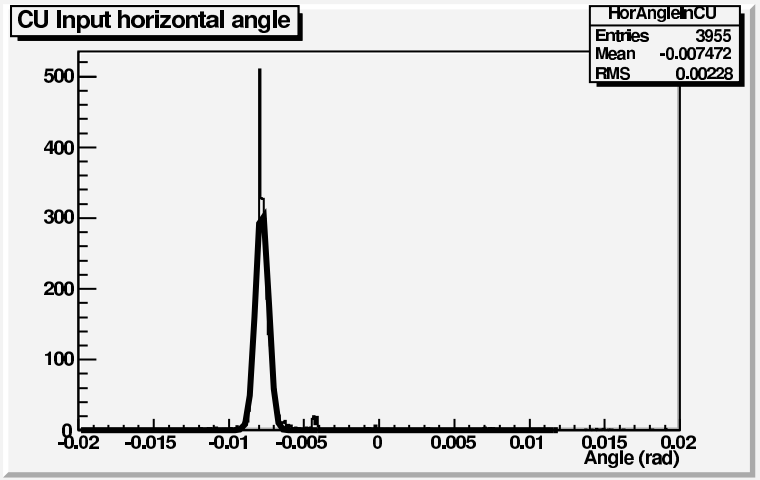

CU Input vertical angle
VertAngleInCU
Entries 3598
Mean 0.005594
RMS 0.001894
Angle (rad)

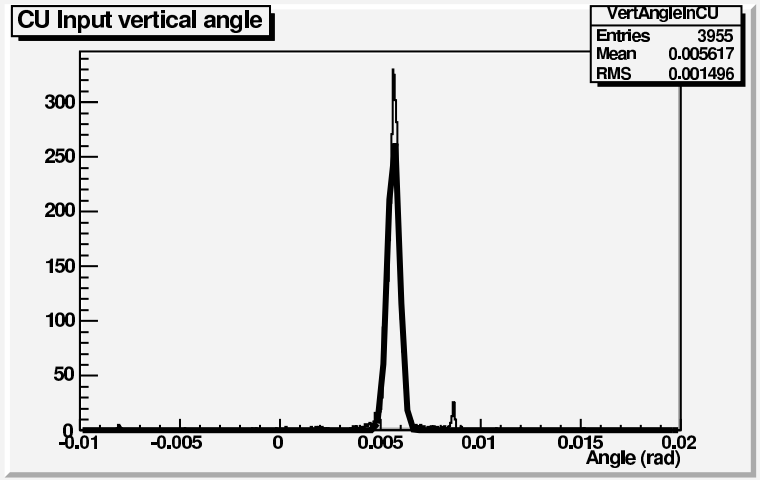

CU Input Beam Spot
SpotCoordInCU
Entries 3598
Mean x 415.6
Mean y 5.486
RMS x 6.531
RMS y 3.846
Vertical Position (mm)
Horizontal Position (mm)

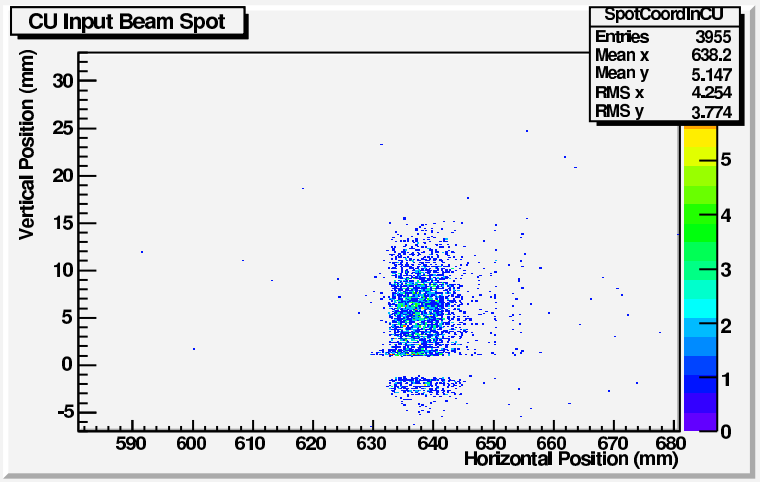

CU Input Beam Spot
SpotAngleInCU
Entries 3598
Mean x 0.005488
Mean y -0.007532
RMS x 0.002192
RMS y 0.002214
Vertical Angle (rad)
Horizontal Angle (rad)

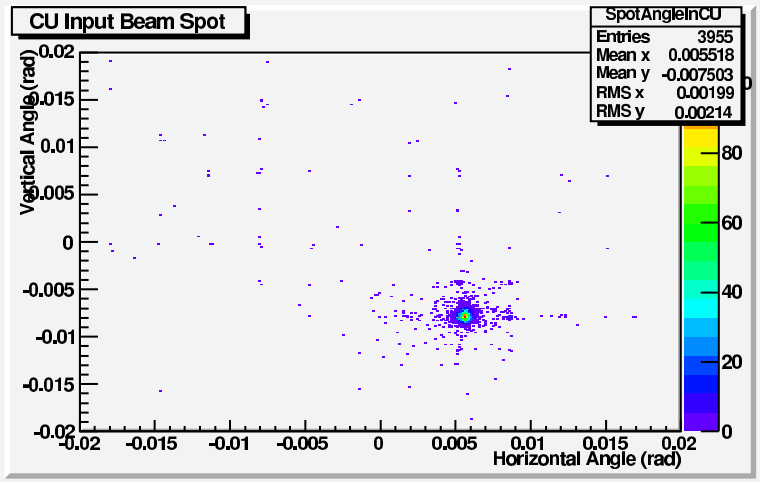

CU Input Horizontal coordinate
HorCoordInCU
Entries 3955
Mean 638.7
RMS 8.055
Position (mm)

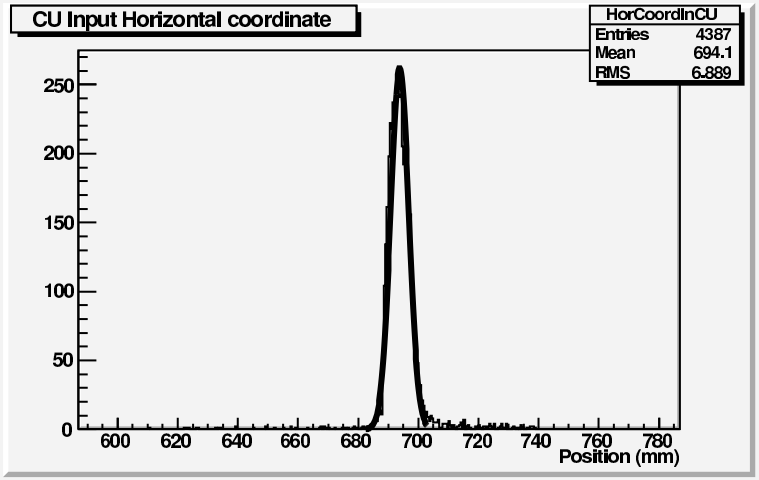

CU Input vertical coordinate
VertCoordInCU
Entries 3955
Mean 4.825
RMS 5.318
Position (mm)

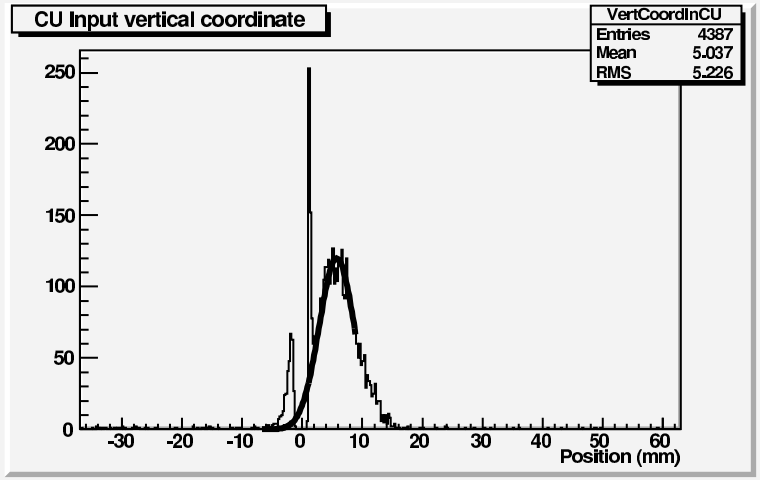

CU Input horizontal angle
HorAngleInCU
Entries 3955
Mean -0.007472
RMS 0.00228
Angle (rad)

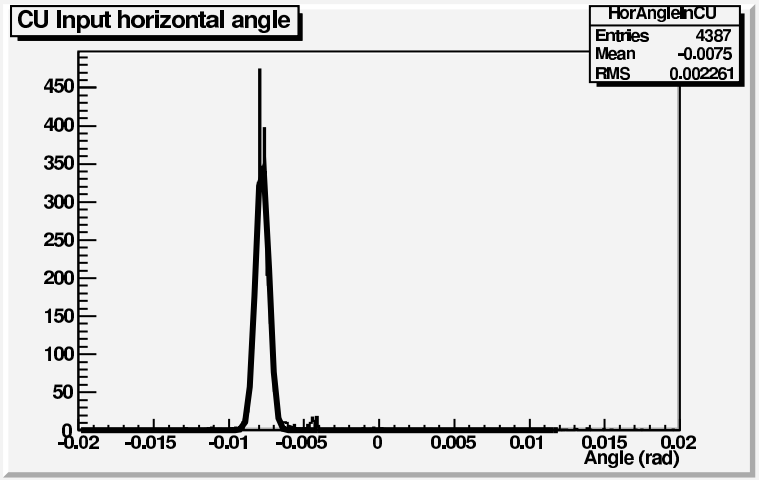

CU Input vertical angle
VertAngleInCU
Entries 3955
Mean 0.005617
RMS 0.001496
Angle (rad)

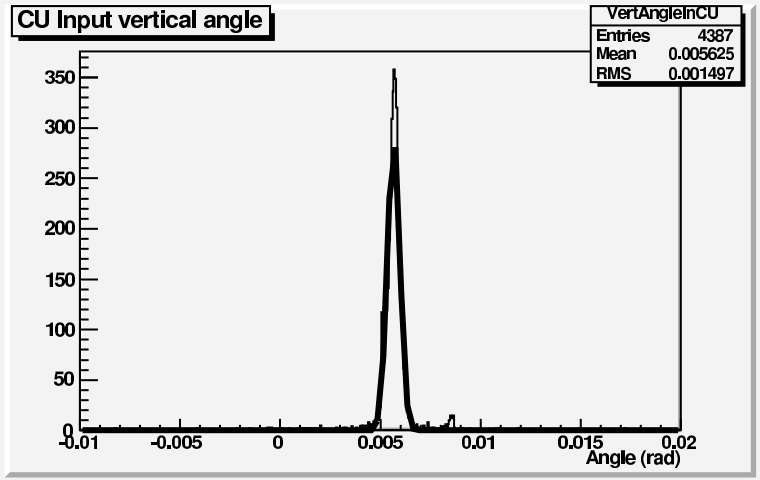

CU Input Beam Spot
SpotCoordInCU
Entries 3955
Mean x 638.2
Mean y 5.147
RMS x 4.254
RMS y 3.774
Vertical Position (mm)
Horizontal Position (mm)

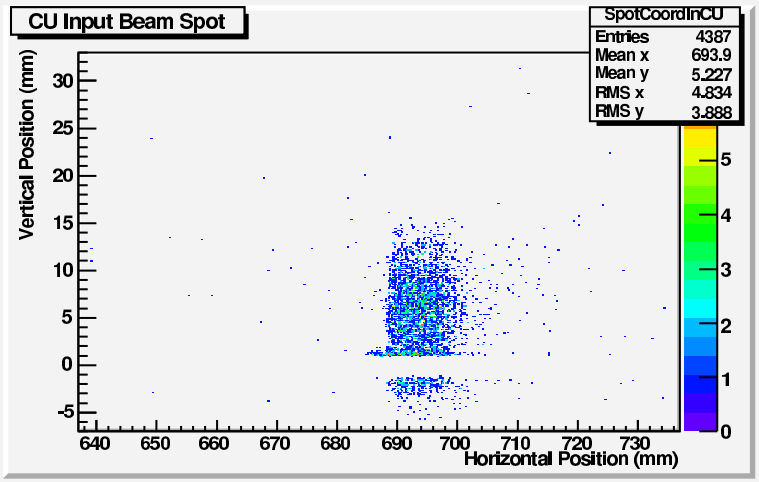

CU Input Beam Spot
SpotAngleInCU
Entries 3955
Mean x 0.005518
Mean y -0.007503
RMS x 0.00199
RMS y 0.00214
Vertical Angle (rad)
Horizontal Angle (rad)

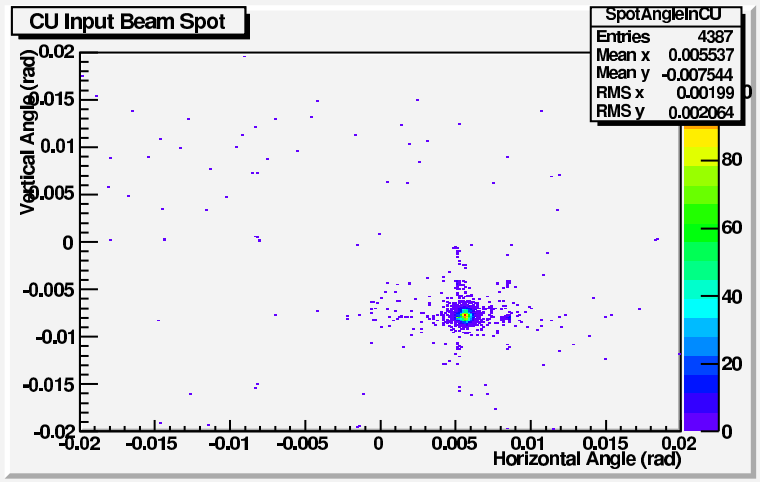

CU Input Horizontal coordinate
HorCoordInCU
Entries 4387
Mean 694.1
RMS 6.889
Position (mm)

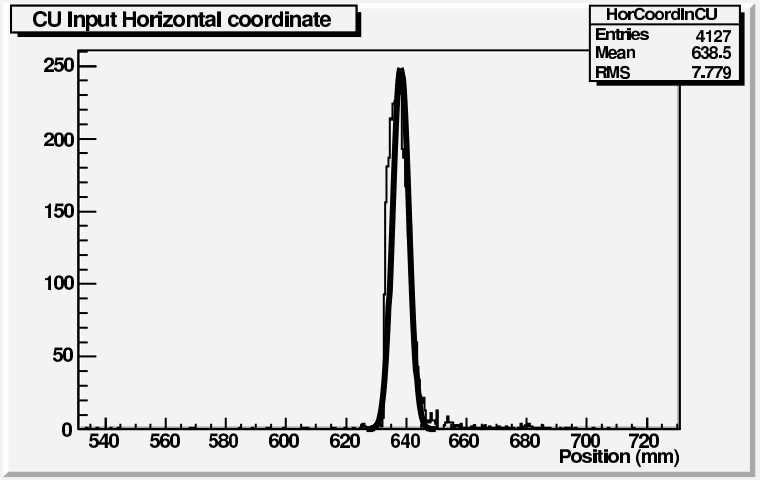

CU Input vertical coordinate
VertCoordInCU
Entries 4387
Mean 5.037
RMS 5.226
Position (mm)

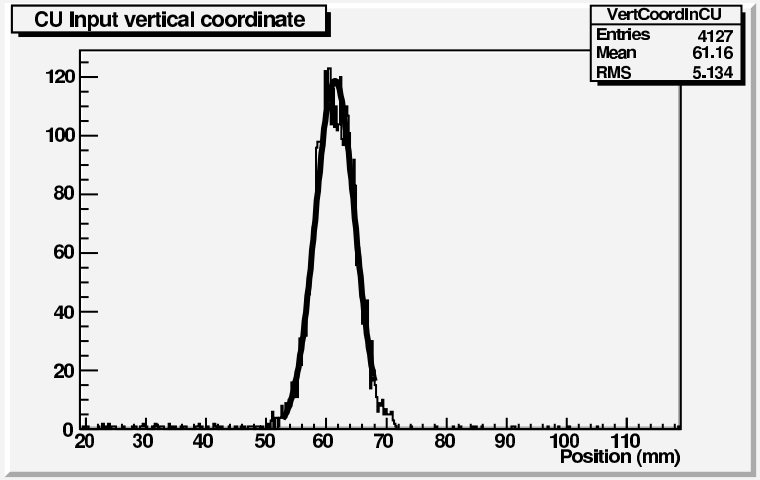

CU Input horizontal angle
HorAngleInCU
Entries 4387
Mean -0.0075
RMS 0.002261
Angle (rad)

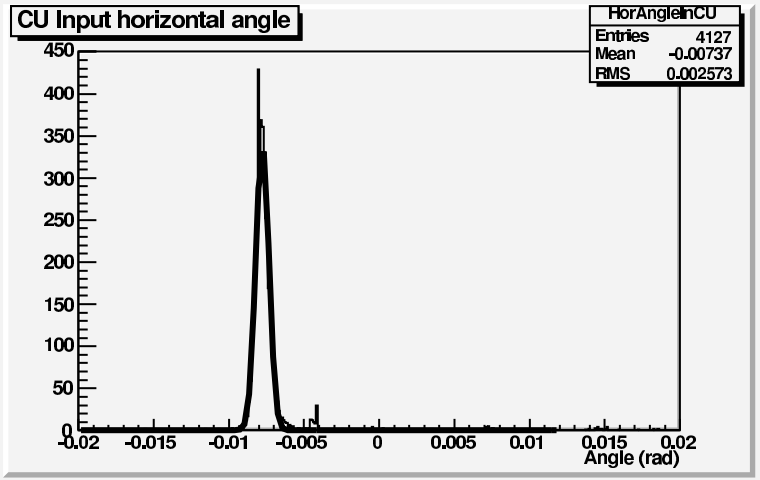

CU Input vertical angle
VertAngleInCU
Entries 4387
Mean 0.005625
RMS 0.001497
Angle (rad)

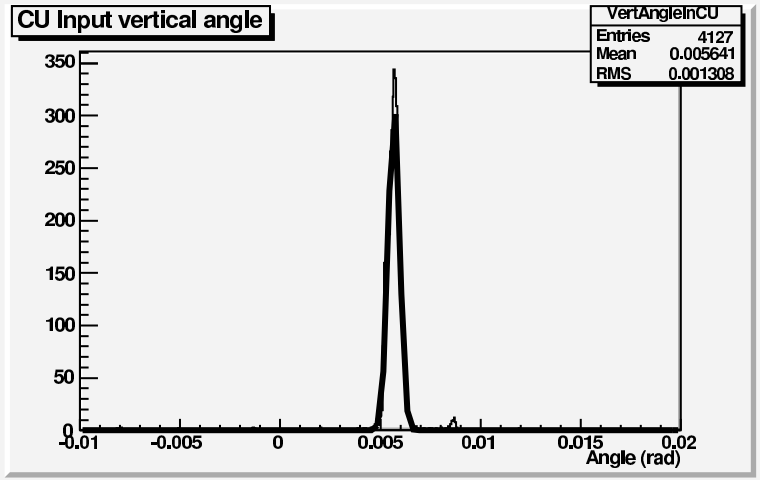

CU Input Beam Spot
SpotCoordInCU
Entries 4387
Mean x 693.9
Mean y 5.227
RMS x 4.834
RMS y 3.888
Vertical Position (mm)
Horizontal Position (mm)

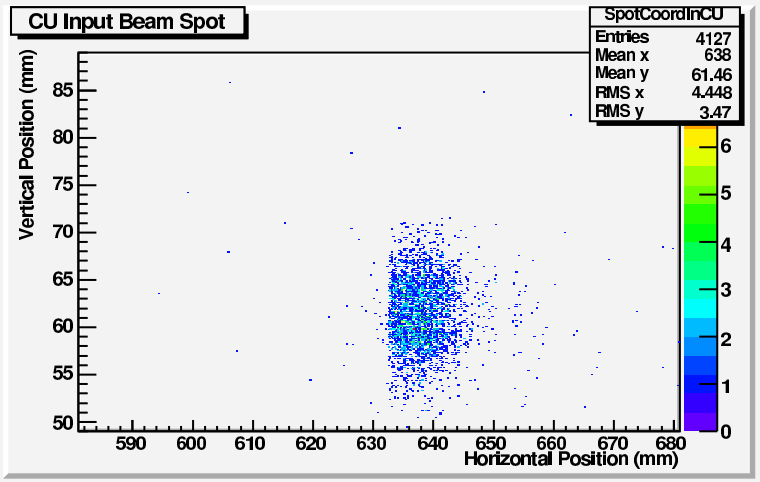

CU Input Beam Spot
SpotAngleInCU
Entries 4387
Mean x 0.005537
Mean y -0.007544
RMS x 0.00199
RMS y 0.002064
Vertical Angle (rad)
Horizontal Angle (rad)

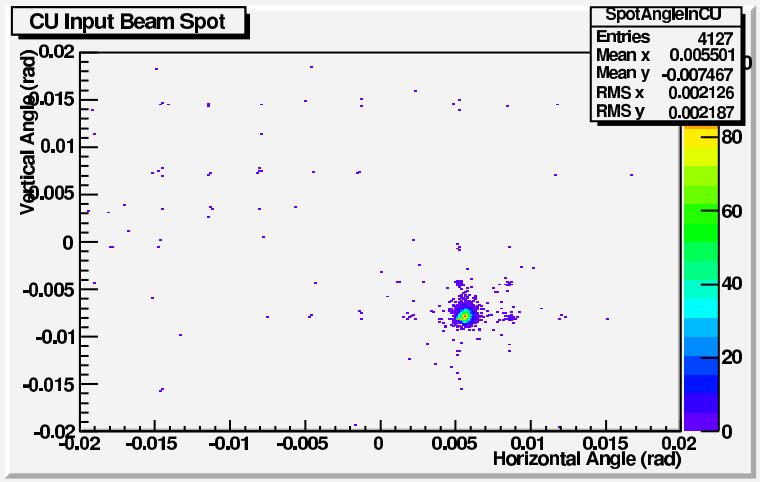

CU Input Horizontal coordinate
HorCoordInCU
Entries 4127
Mean 638.5
RMS 7.779
Position (mm)

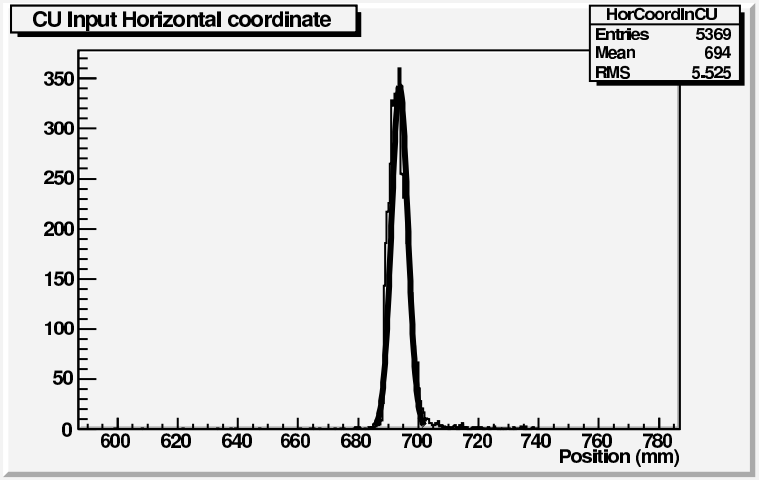

CU Input vertical coordinate
VertCoordInCU
Entries 4127
Mean 61.16
RMS 5.134
Position (mm)

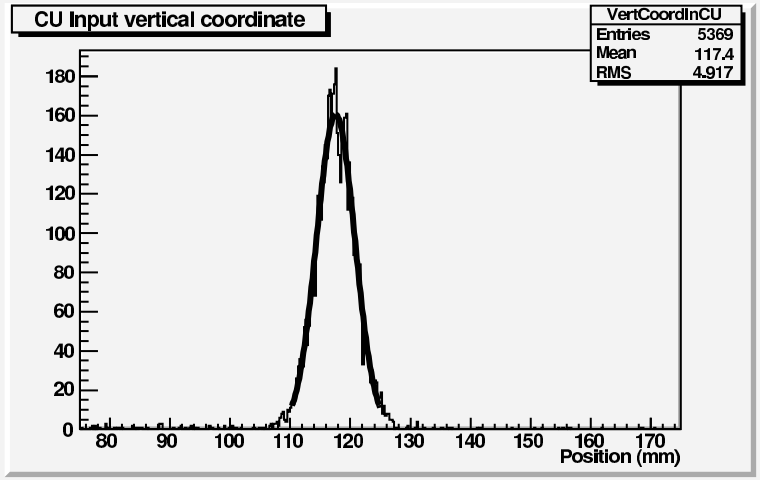

CU Input horizontal angle
HorAngleInCU
Entries 4127
Mean -0.00737
RMS 0.002573
Angle (rad)

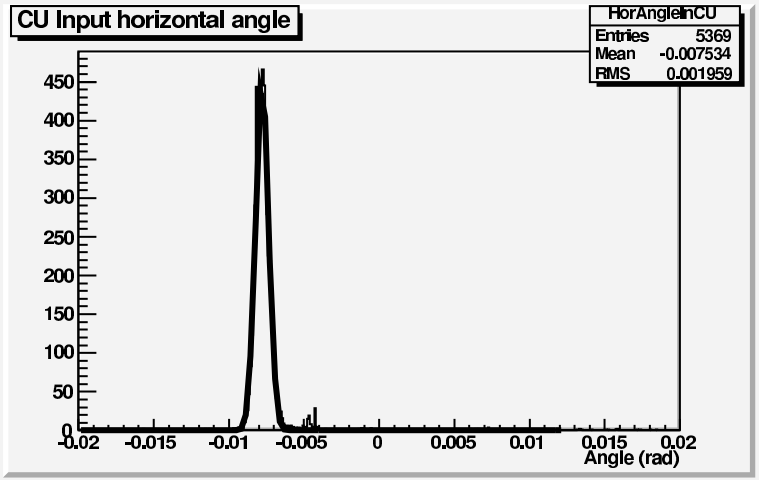

CU Input vertical angle
VertAngleInCU
Entries 4127
Mean 0.005641
RMS 0.001308
Angle (rad)

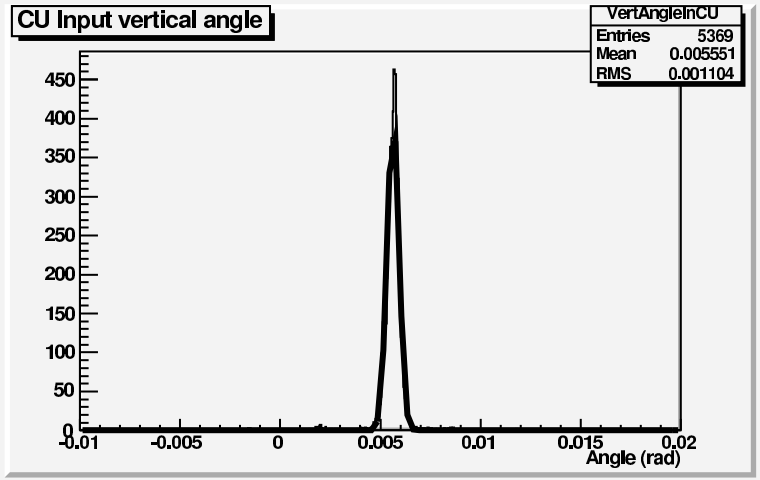

CU Input Beam Spot
SpotCoordInCU
Entries 4127
Mean x 638
Mean y 61.46
RMS x 4.448
RMS y 3.47
Vertical Position (mm)
Horizontal Position (mm)

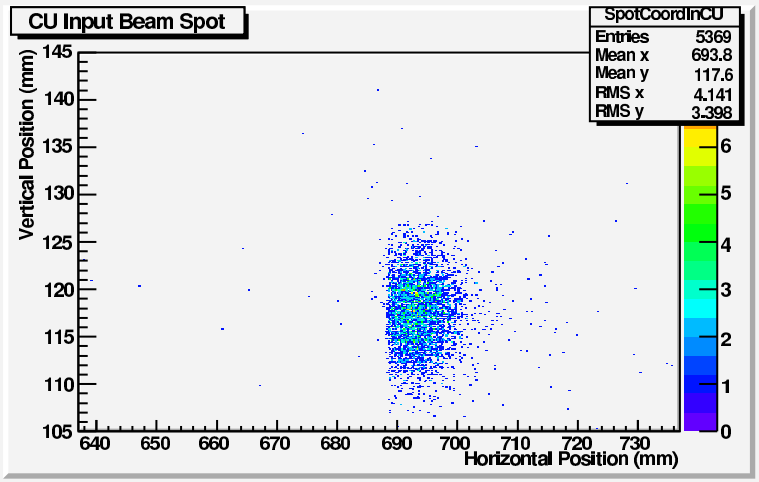

CU Input Beam Spot
SpotAngleInCU
Entries 4127
Mean x 0.005501
Mean y -0.007467
RMS x 0.002126
RMS y 0.002187
Vertical Angle (rad)
Horizontal Angle (rad)

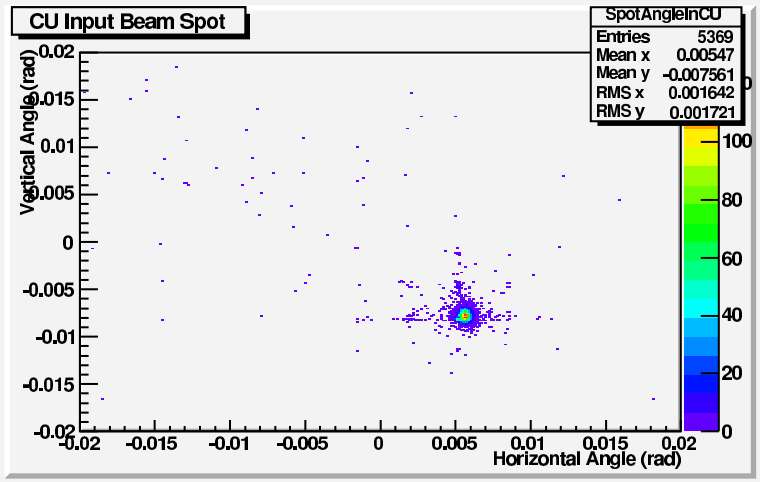

CU Input Horizontal coordinate
HorCoordInCU
Entries 5369
Mean 694
RMS 5.525
Position (mm)

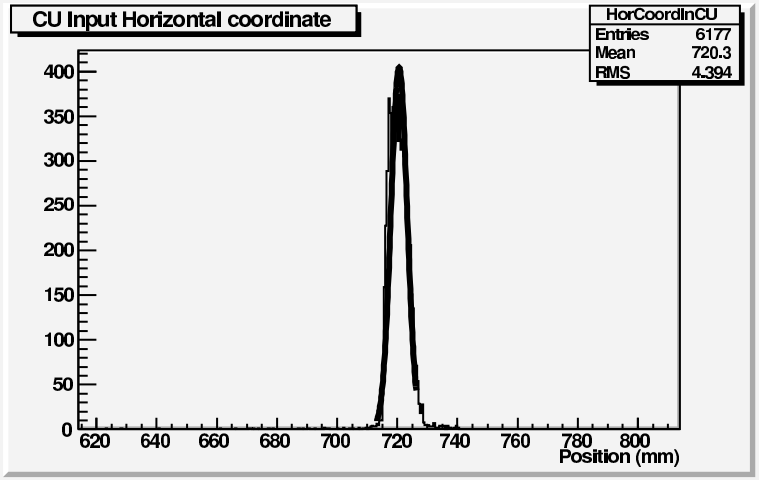

CU Input vertical coordinate
VertCoordInCU
Entries 5369
Mean 117.4
RMS 4.917
Position (mm)

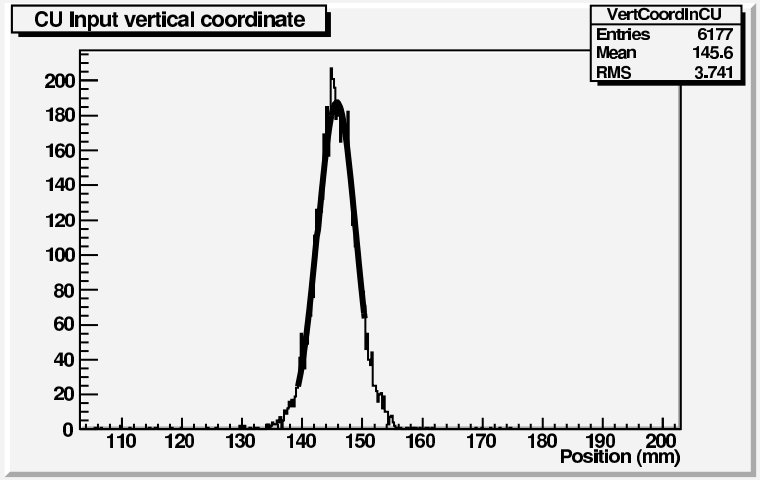

CU Input horizontal angle
HorAngleInCU
Entries 5369
Mean -0.007534
RMS 0.001959
Angle (rad)

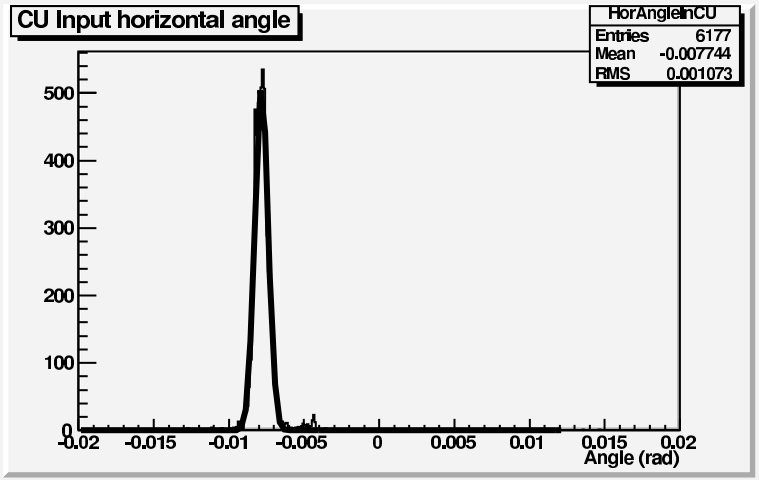

CU Input vertical angle
VertAngleInCU
Entries 5369
Mean 0.005551
RMS 0.001104
Angle (rad)

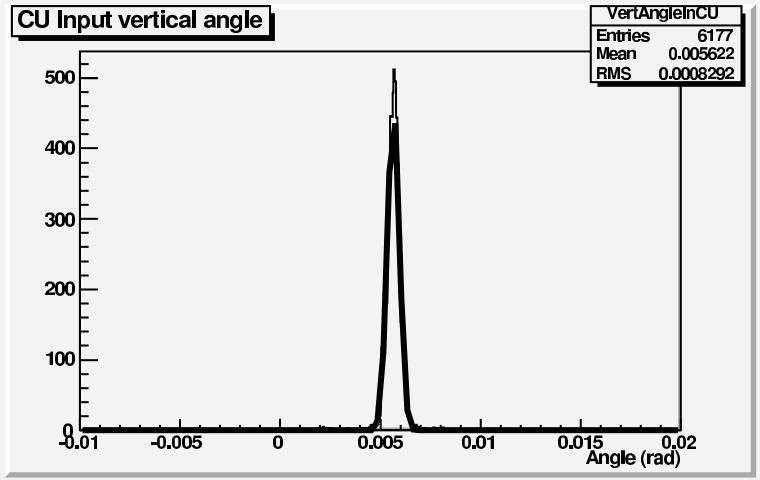

CU Input Beam Spot
SpotCoordInCU
Entries 5369
Mean x 693.8
Mean y 117.6
RMS x 4.141
RMS y 3.398
Vertical Position (mm)
Horizontal Position (mm)

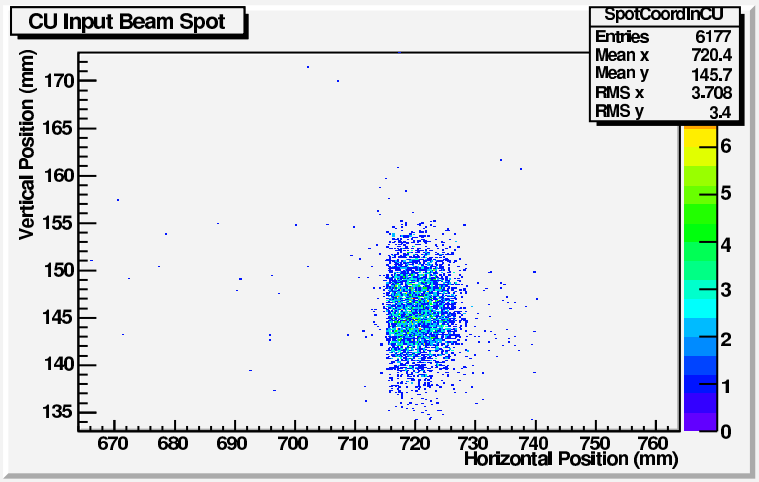

CU Input Beam Spot
SpotAngleInCU
Entries 5369
Mean x 0.00547
Mean y -0.007561
RMS x 0.001642
RMS y 0.001721
Vertical Angle (rad)
Horizontal Angle (rad)

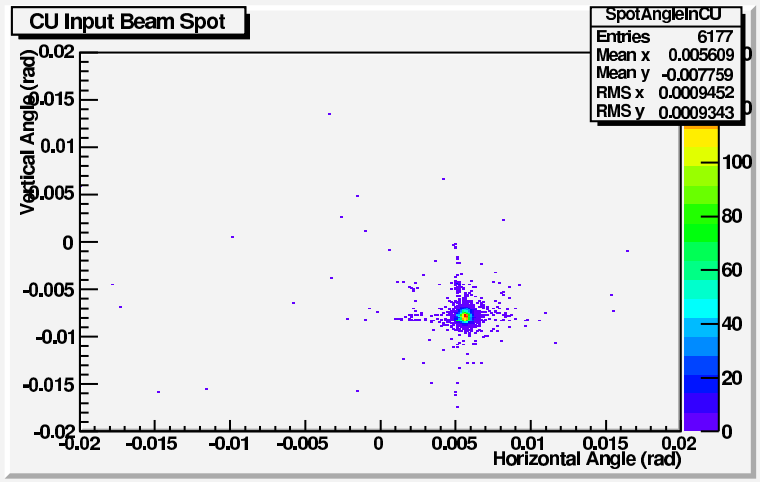

CU Input Horizontal coordinate
HorCoordInCU
Entries 6177
Mean 720.3
RMS 4.394
Position (mm)

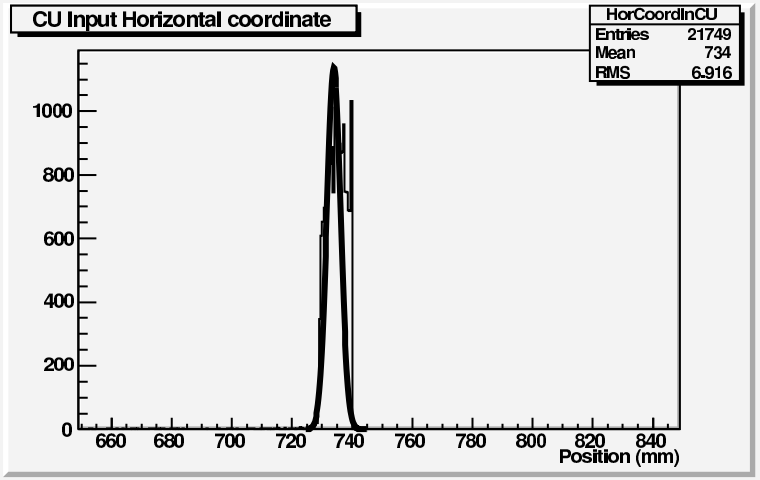

CU Input vertical coordinate
VertCoordInCU
Entries 6177
Mean 145.6
RMS 3.741
Position (mm)

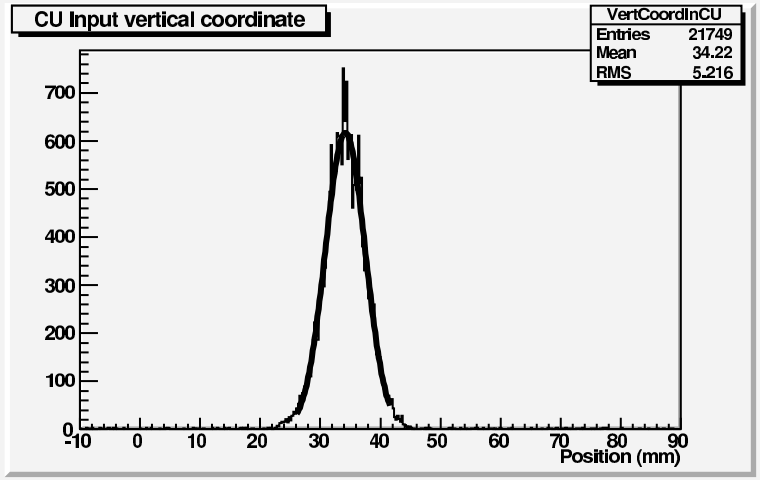

CU Input horizontal angle
HorAngleInCU
Entries 6177
Mean -0.007744
RMS 0.001073
Angle (rad)

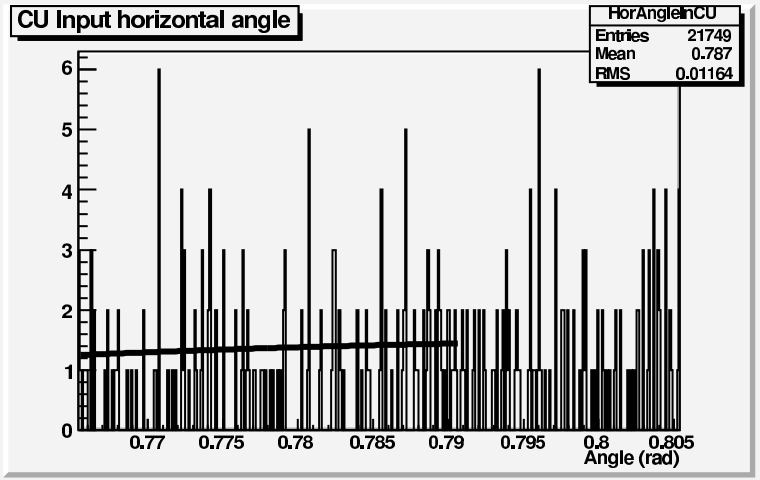

CU Input vertical angle
VertAngleInCU
Entries 6177
Mean 0.005622
RMS 0.0008292
Angle (rad)

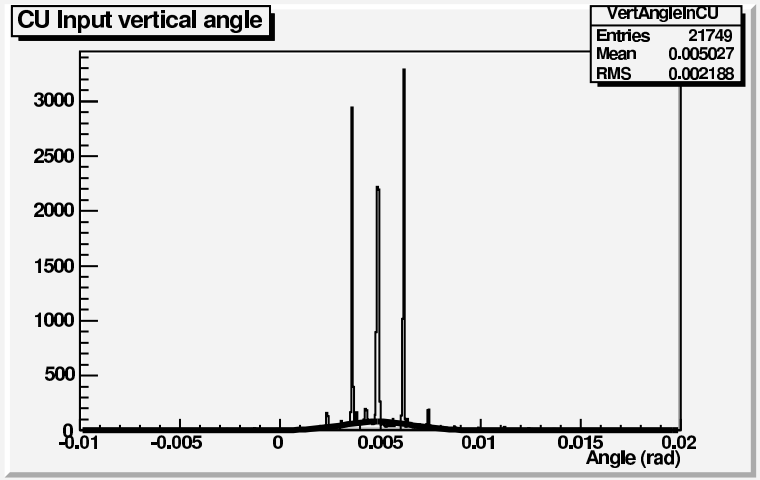

CU Input Beam Spot
SpotCoordInCU
Entries 6177
Mean x 720.4
Mean y 145.7
RMS x 3.708
RMS y 3.4
Vertical Position (mm)
Horizontal Position (mm)

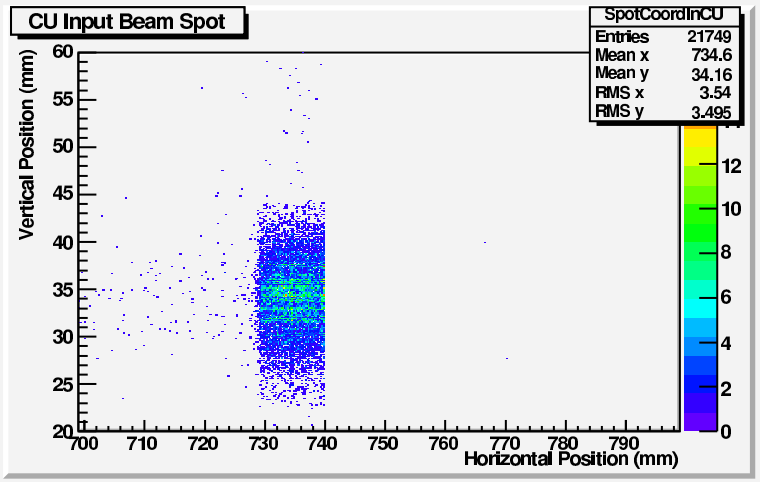

CU Input Beam Spot
SpotAngleInCU
Entries 6177
Mean x 0.005609
Mean y -0.007759
RMS x 0.0009452
RMS y 0.0009343
Vertical Angle (rad)
Horizontal Angle (rad)

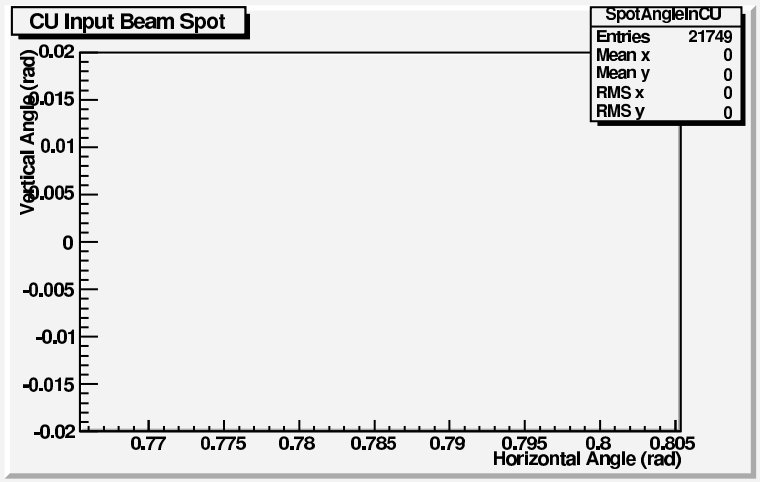

CU Input Horizontal coordinate
HorCoordInCU
Entries 21749
Mean 734
RMS 6.916
Position (mm)

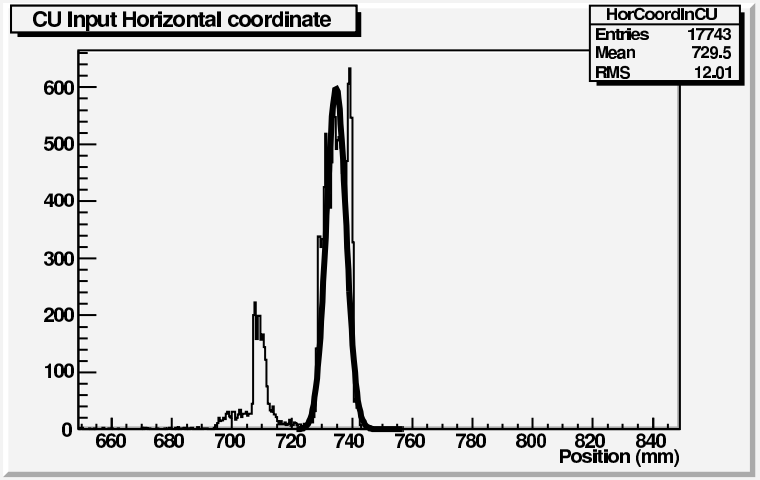

CU Input vertical coordinate
VertCoordInCU
Entries 21749
Mean 34.22
RMS 5.216
Position (mm)

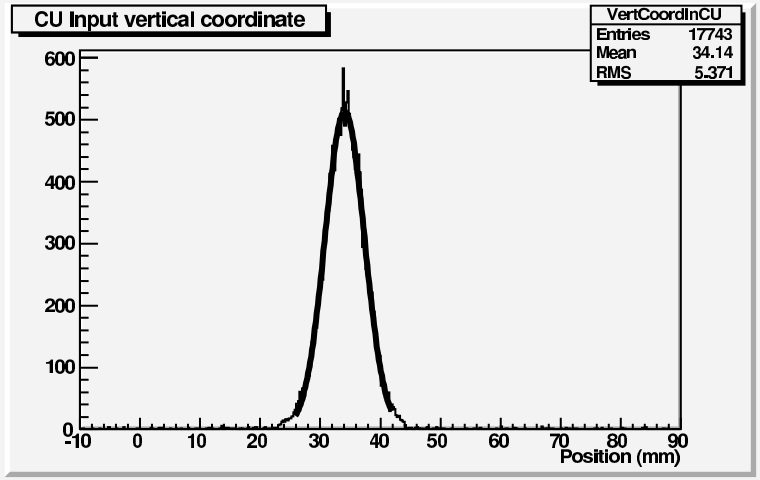

CU Input horizontal angle
HorAngleInCU
Entries 21749
Mean 0.787
RMS 0.01164
Angle (rad)

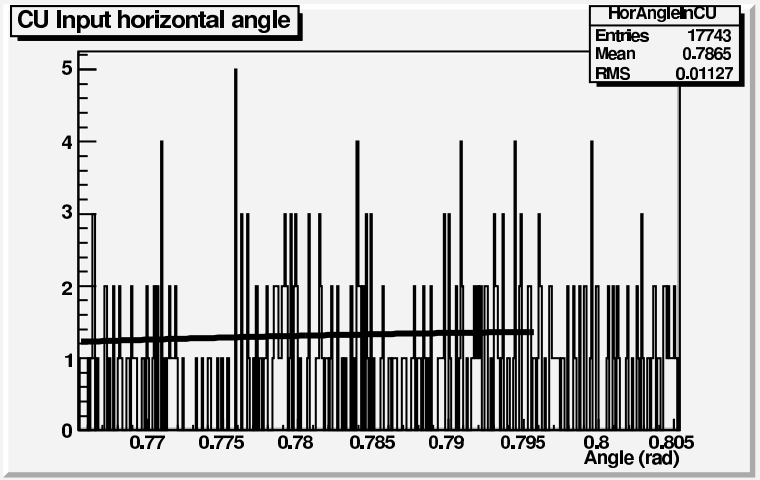

CU Input vertical angle
VertAngleInCU
Entries 21749
Mean 0.005027
RMS 0.002188
Angle (rad)

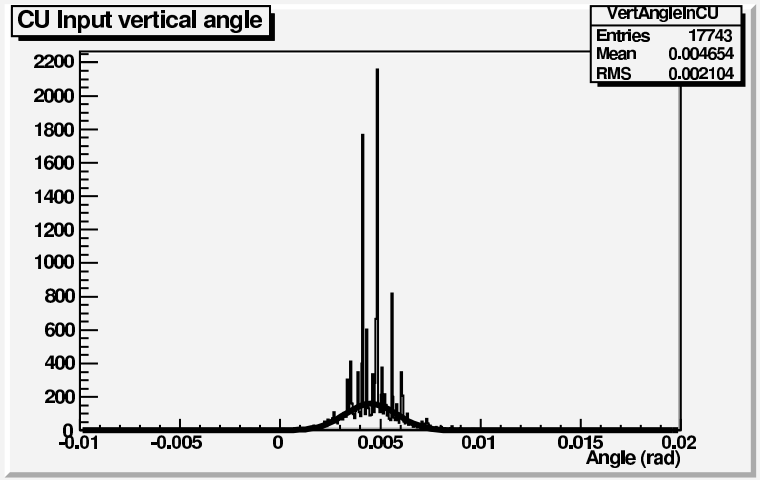

CU Input Beam Spot
SpotCoordInCU
Entries 21749
Mean x 734.6
Mean y 34.16
RMS x 3.54
RMS y 3.495
Vertical Position (mm)
Horizontal Position (mm)

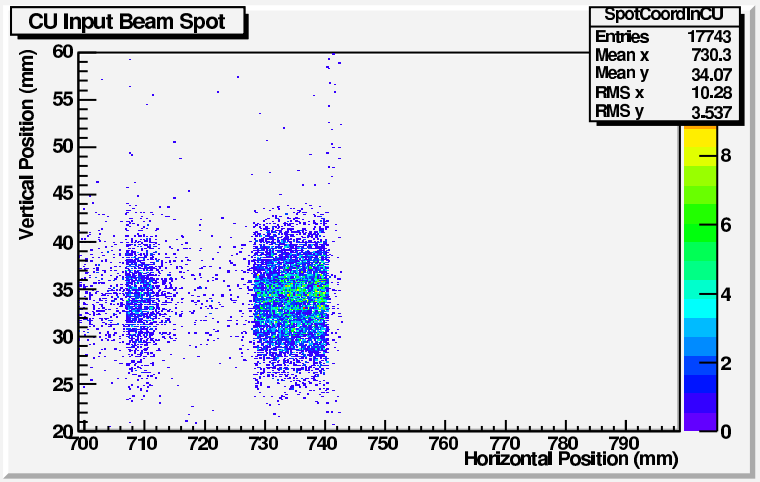

CU Input Beam Spot
SpotAngleInCU
Entries 21749
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

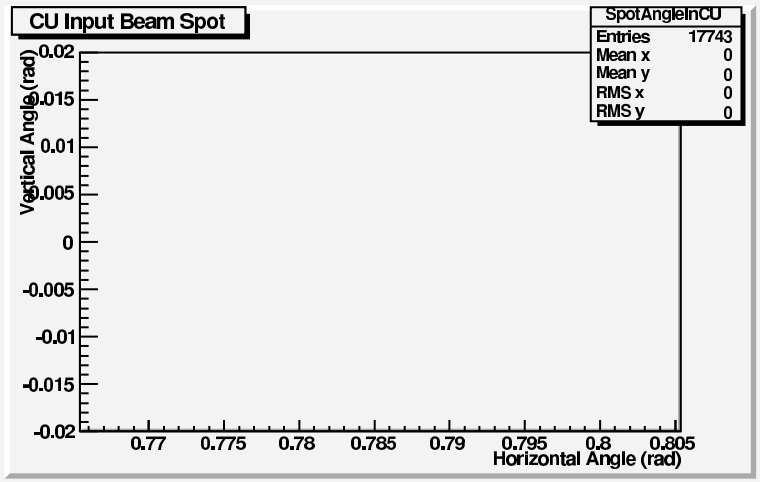

CU Input Horizontal coordinate
HorCoordInCU
Entries 17743
Mean 729.5
RMS 12.01
Position (mm)

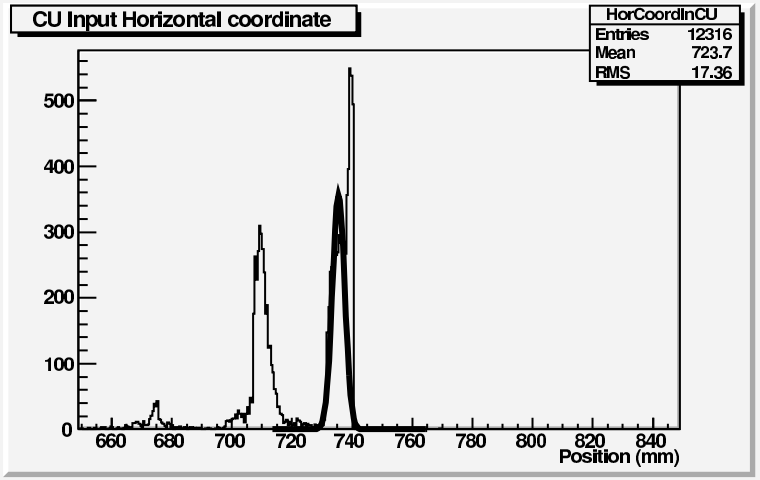

CU Input vertical coordinate
VertCoordInCU
Entries 17743
Mean 34.14
RMS 5.371
Position (mm)

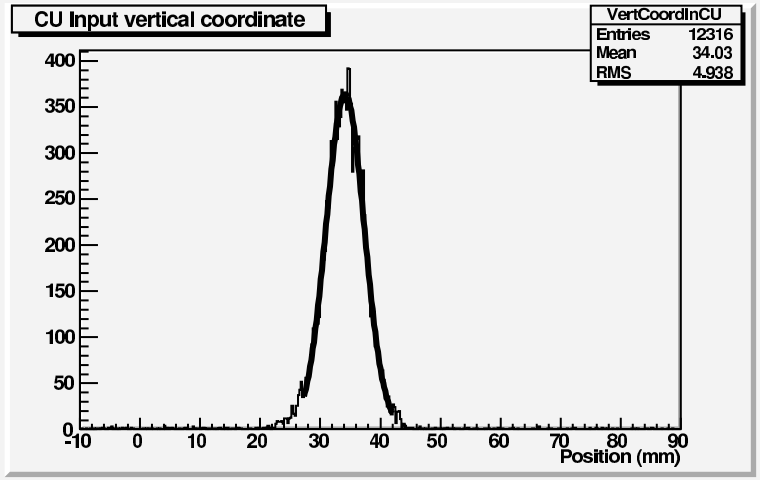

CU Input horizontal angle
HorAngleInCU
Entries 17743
Mean 0.7865
RMS 0.01127
Angle (rad)

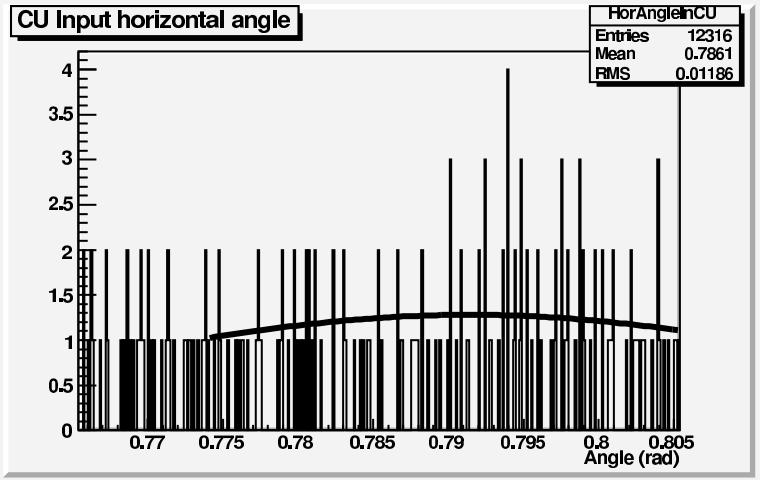

CU Input vertical angle
VertAngleInCU
Entries 17743
Mean 0.004654
RMS 0.002104
Angle (rad)

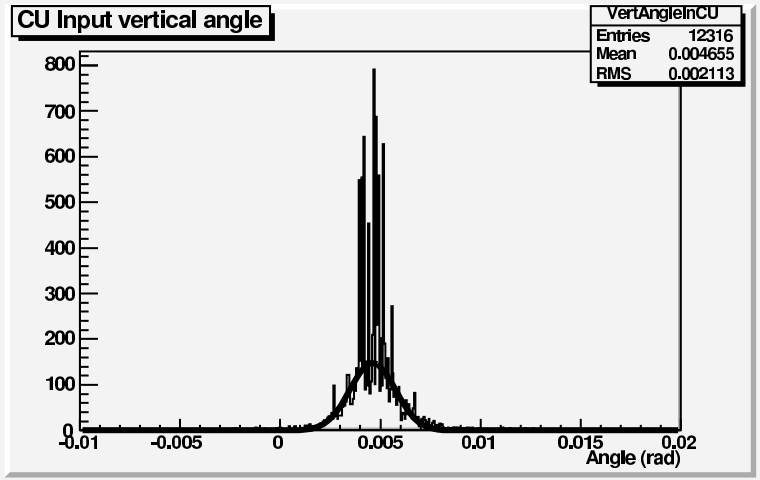

CU Input Beam Spot
SpotCoordInCU
Entries 17743
Mean x 730.3
Mean y 34.07
RMS x 10.28
RMS y 3.537
Vertical Position (mm)
Horizontal Position (mm)

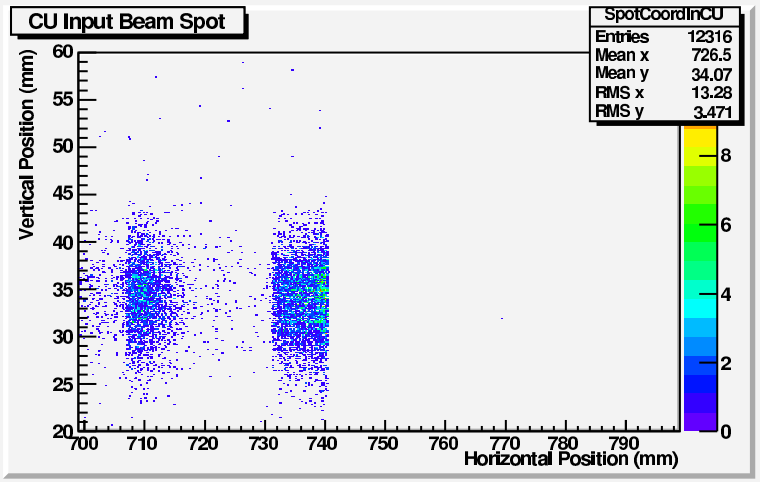

CU Input Beam Spot
SpotAngleInCU
Entries 17743
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

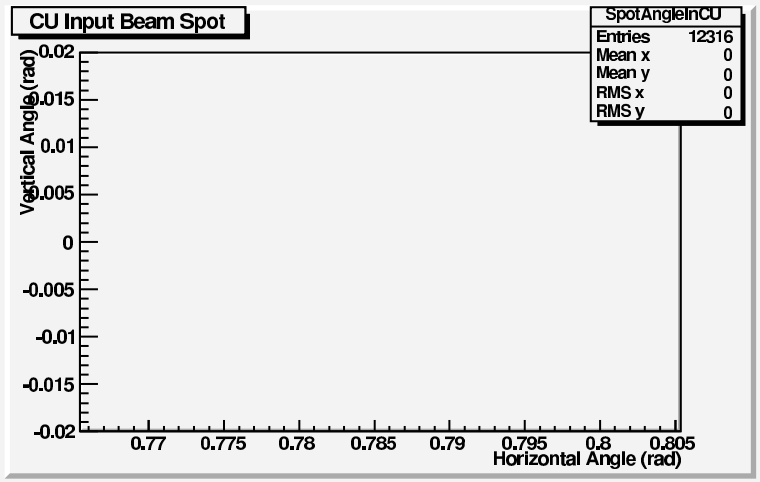

CU Input Horizontal coordinate
HorCoordInCU
Entries 12316
Mean 723.7
RMS 17.36
Position (mm)

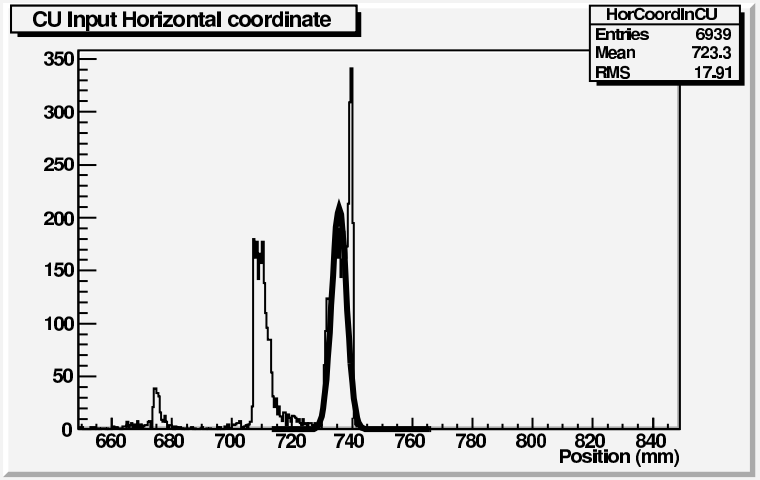

CU Input vertical coordinate
VertCoordInCU
Entries 12316
Mean 34.03
RMS 4.938
Position (mm)

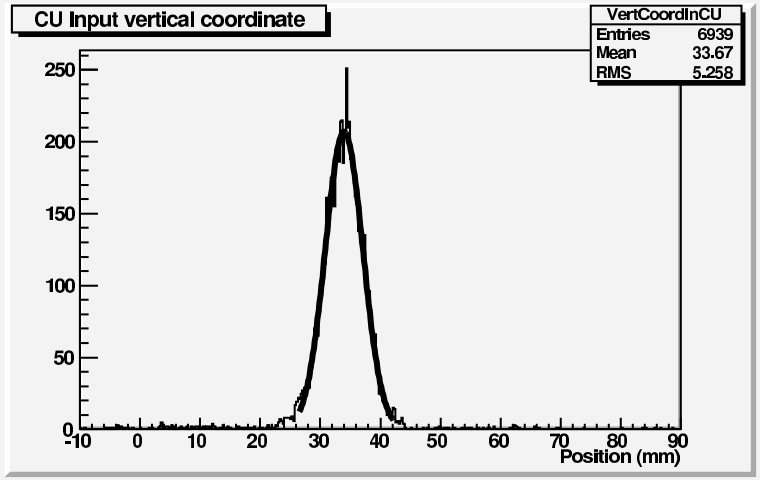

CU Input horizontal angle
HorAngleInCU
Entries 12316
Mean 0.7861
RMS 0.01186
Angle (rad)

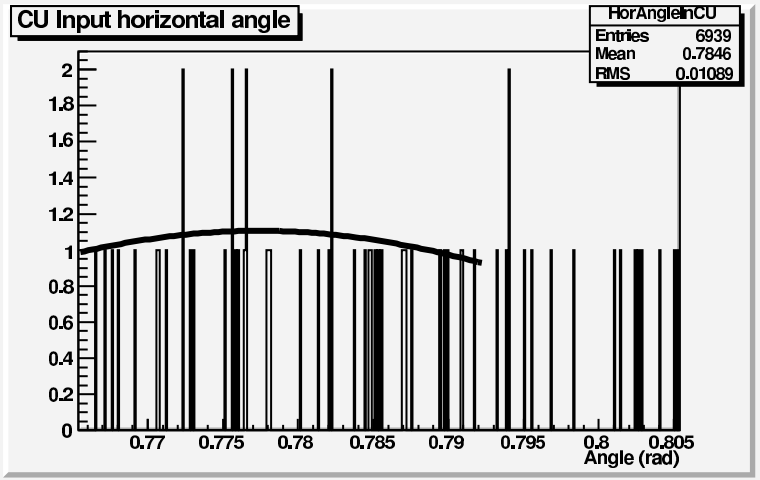

CU Input vertical angle
VertAngleInCU
Entries 12316
Mean 0.004655
RMS 0.002113
Angle (rad)

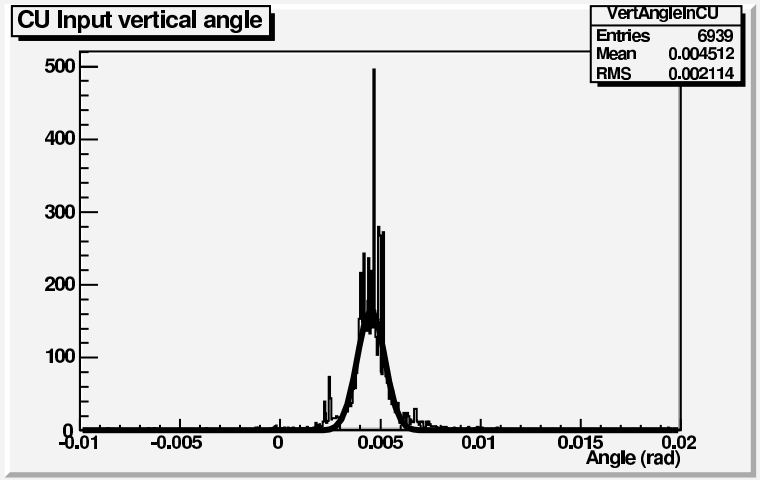

CU Input Beam Spot
SpotCoordInCU
Entries 12316
Mean x 726.5
Mean y 34.07
RMS x 13.28
RMS y 3.471
Vertical Position (mm)
Horizontal Position (mm)

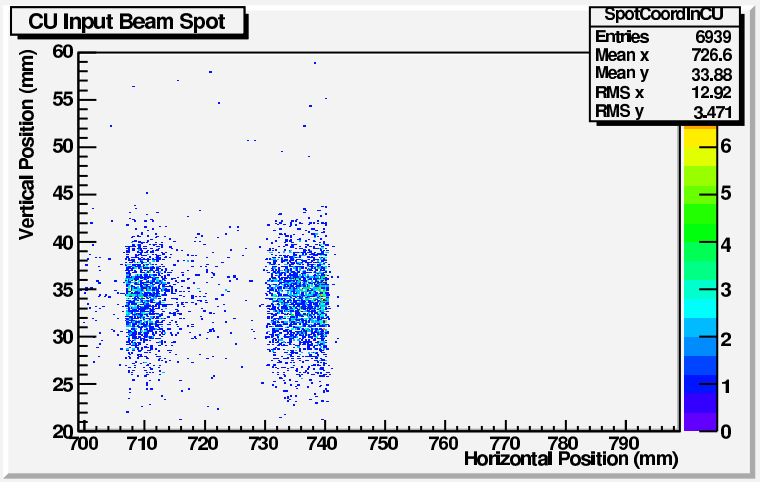

CU Input Beam Spot
SpotAngleInCU
Entries 12316
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

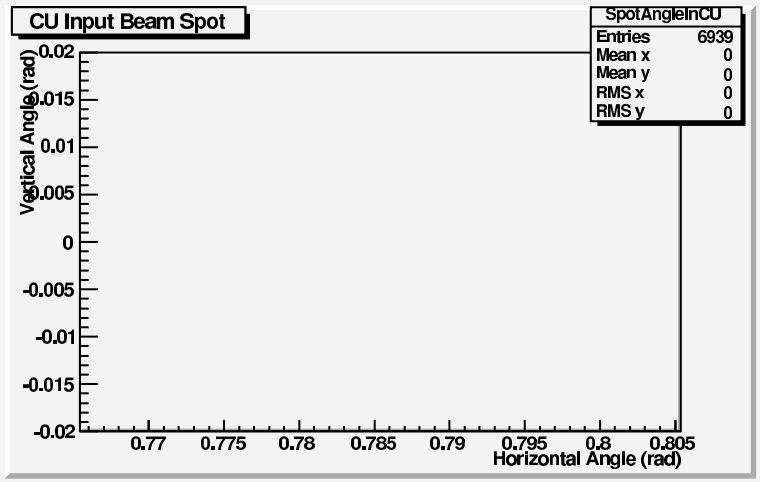

CU Input Horizontal coordinate
HorCoordInCU
Entries 6939
Mean 723.3
RMS 17.91
Position (mm)

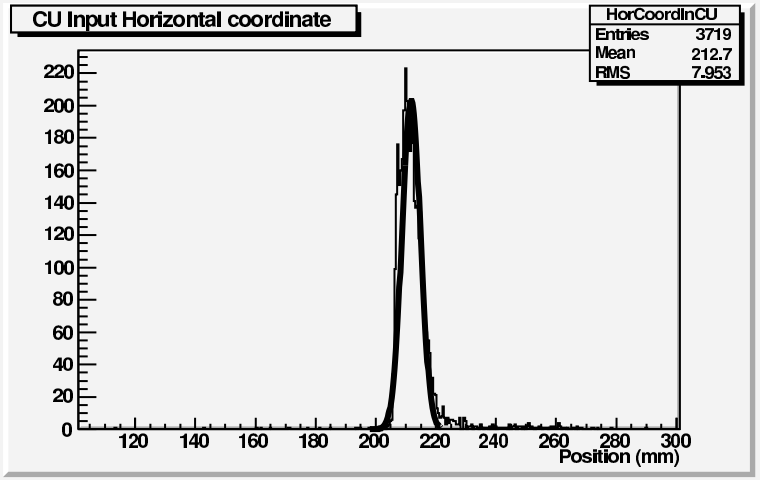

CU Input vertical coordinate
VertCoordInCU
Entries 6939
Mean 33.67
RMS 5.258
Position (mm)

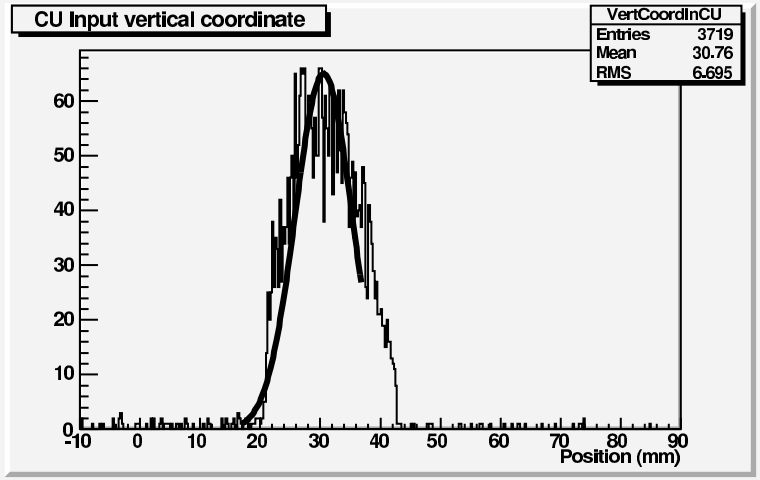

CU Input horizontal angle
HorAngleInCU
Entries 6939
Mean 0.7846
RMS 0.01089
Angle (rad)

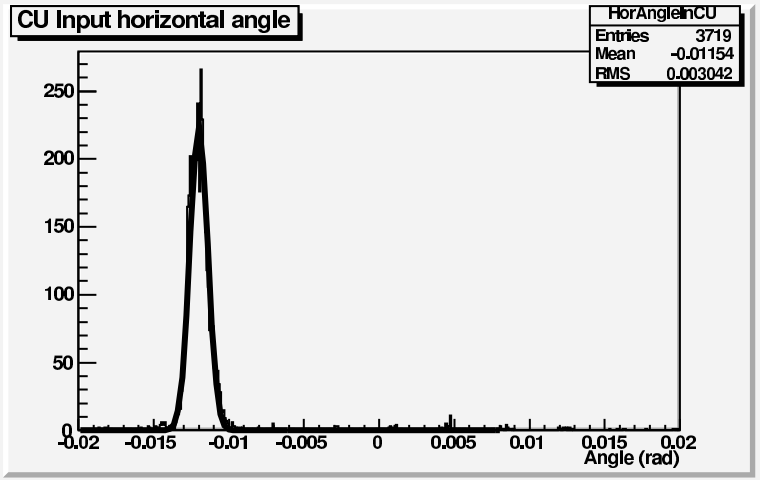

CU Input vertical angle
VertAngleInCU
Entries 6939
Mean 0.004512
RMS 0.002114
Angle (rad)

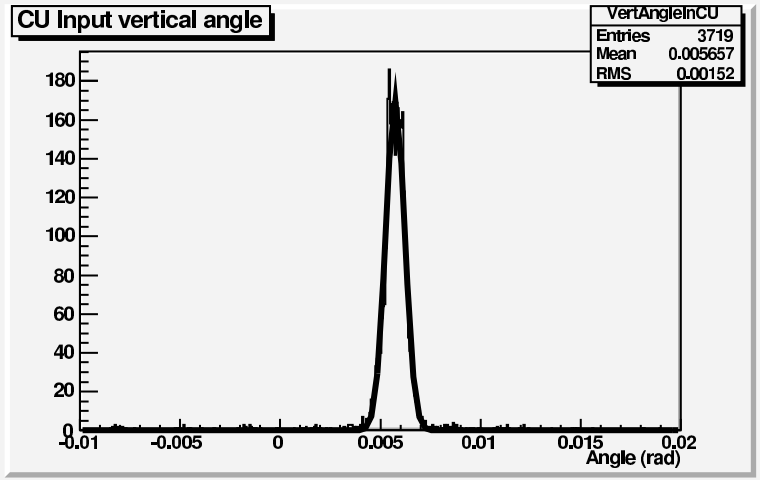

CU Input Beam Spot
SpotCoordInCU
Entries 6939
Mean x 726.6
Mean y 33.88
RMS x 12.92
RMS y 3.471
Vertical Position (mm)
Horizontal Position (mm)

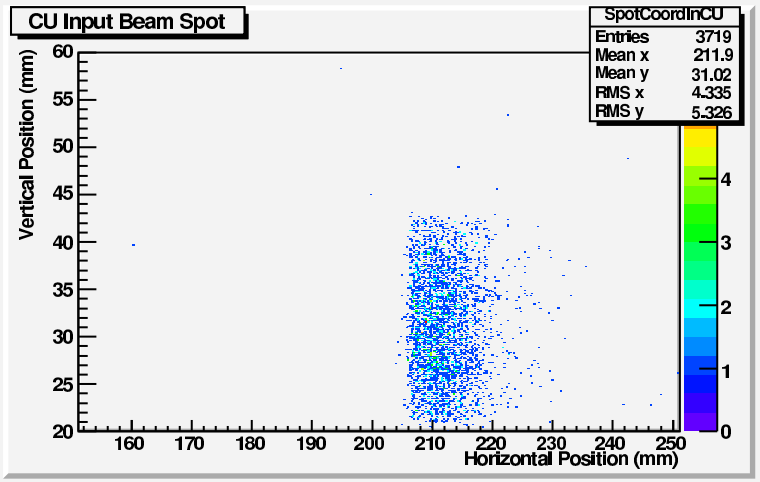

CU Input Beam Spot
SpotAngleInCU
Entries 6939
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

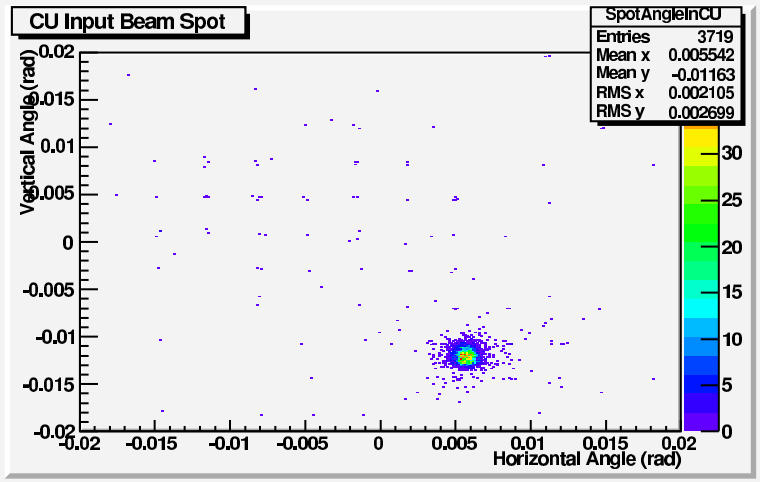

CU Input Horizontal coordinate
HorCoordInCU
Entries 3719
Mean 212.7
RMS 7.953
Position (mm)

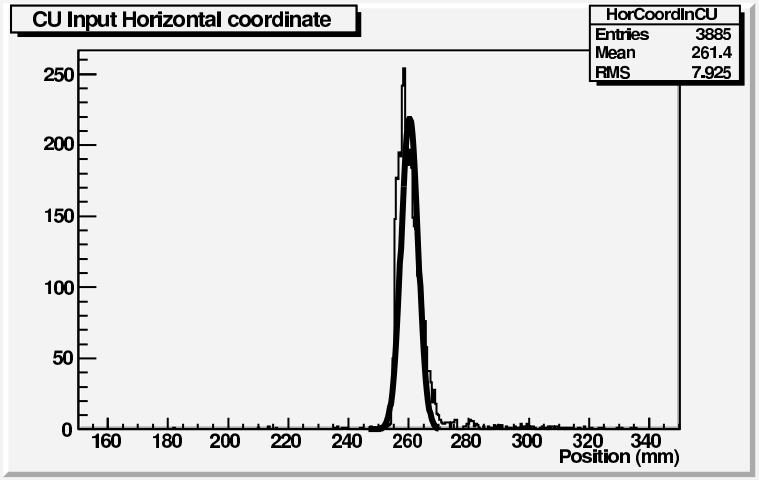

CU Input vertical coordinate
VertCoordInCU
Entries 3719
Mean 30.76
RMS 6.695
Position (mm)

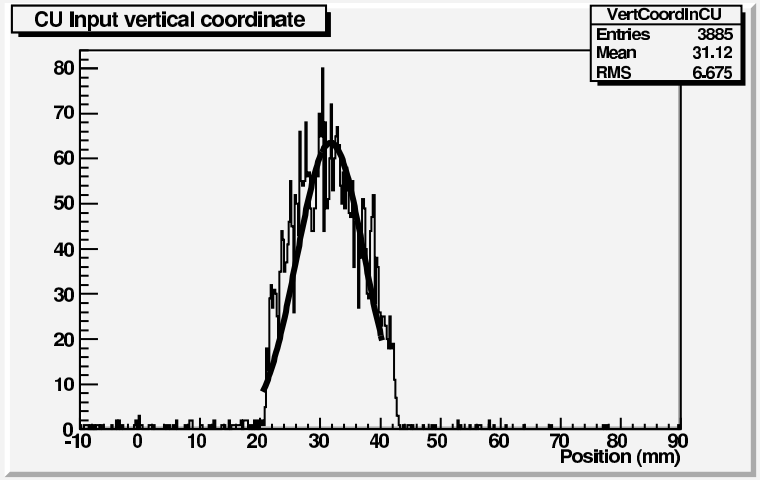

CU Input horizontal angle
HorAngleInCU
Entries 3719
Mean -0.01154
RMS 0.003042
Angle (rad)

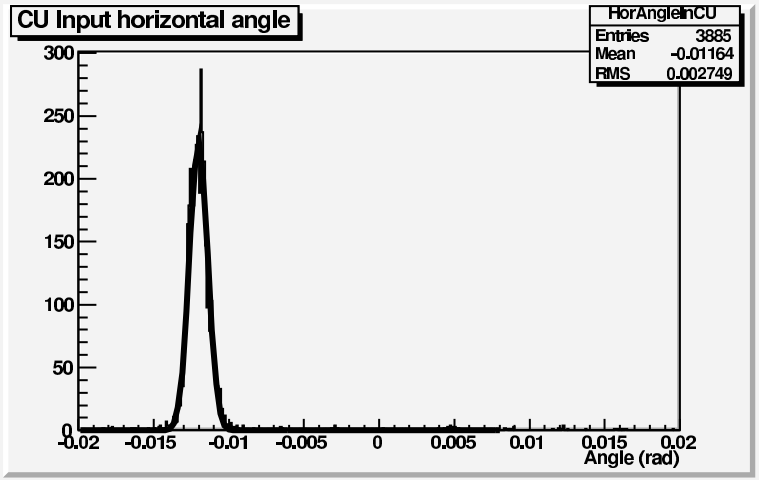

CU Input vertical angle
VertAngleInCU
Entries 3719
Mean 0.005657
RMS 0.00152
Angle (rad)

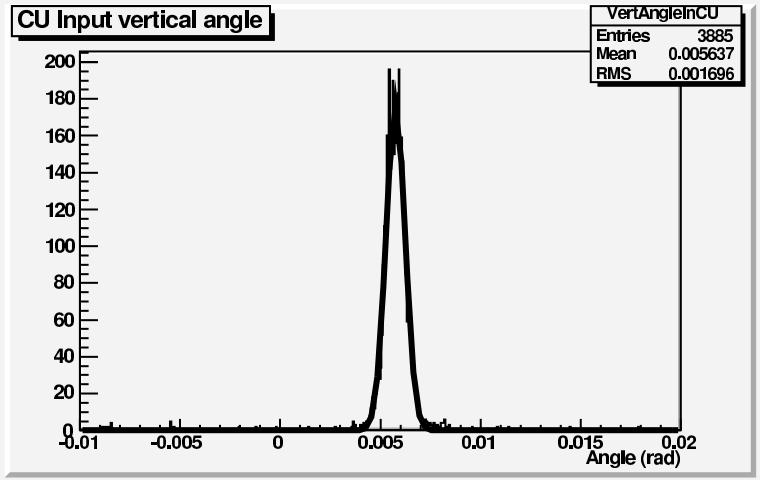

CU Input Beam Spot
SpotCoordInCU
Entries 3719
Mean x 211.9
Mean y 31.02
RMS x 4.335
RMS y 5.326
Vertical Position (mm)
Horizontal Position (mm)

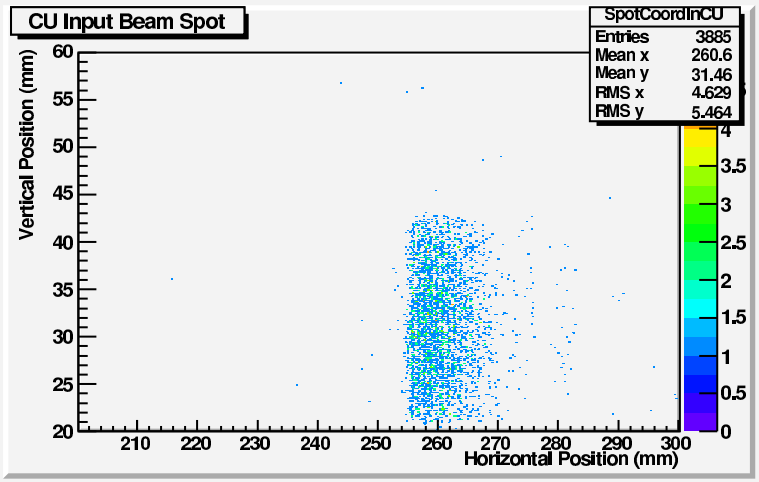

CU Input Beam Spot
SpotAngleInCU
Entries 3719
Mean x 0.005542
Mean y -0.01163
RMS x 0.002105
RMS y 0.002699
Vertical Angle (rad)
Horizontal Angle (rad)

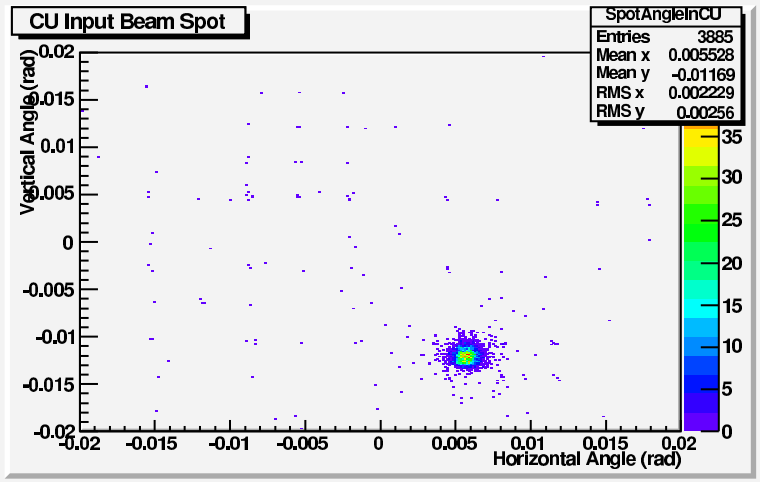

CU Input Horizontal coordinate
HorCoordInCU
Entries 3885
Mean 261.4
RMS 7.925
Position (mm)

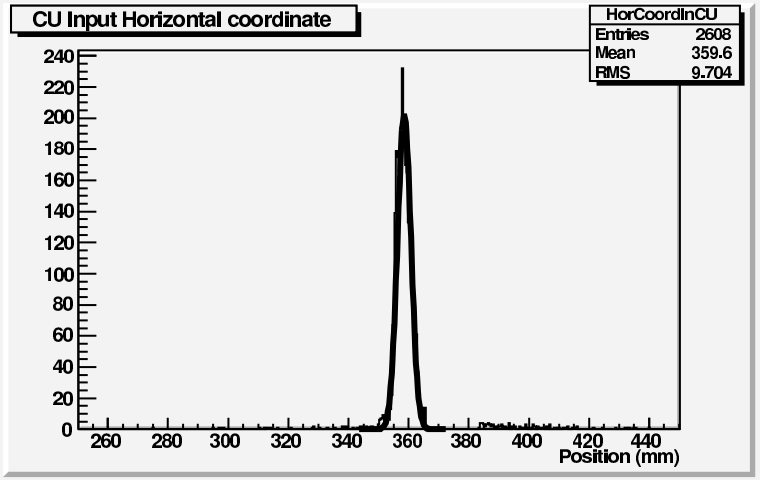

CU Input vertical coordinate
VertCoordInCU
Entries 3885
Mean 31.12
RMS 6.675
Position (mm)

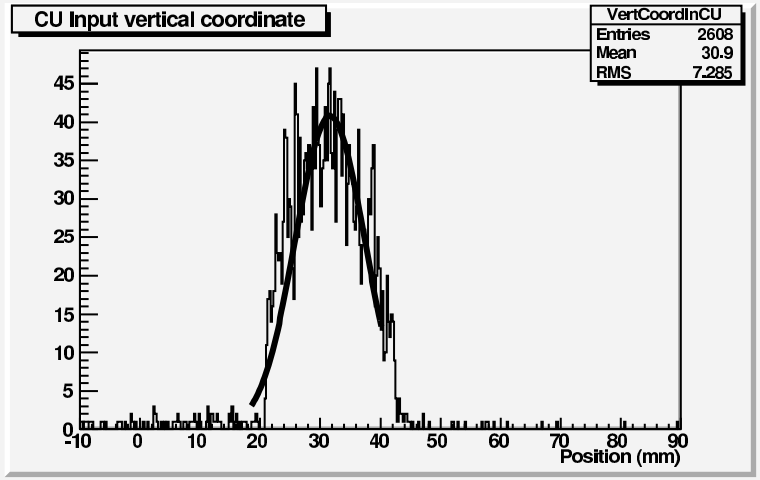

CU Input horizontal angle
HorAngleInCU
Entries 3885
Mean -0.01164
RMS 0.002749
Angle (rad)

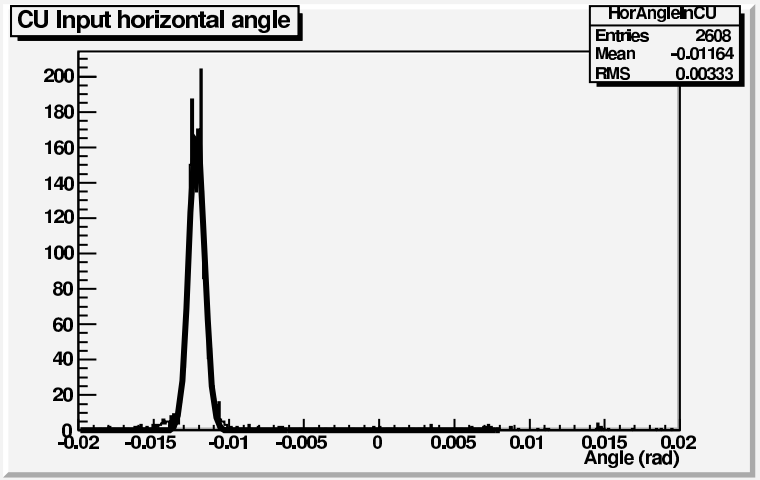

CU Input vertical angle
VertAngleInCU
Entries 3885
Mean 0.005637
RMS 0.001696
Angle (rad)

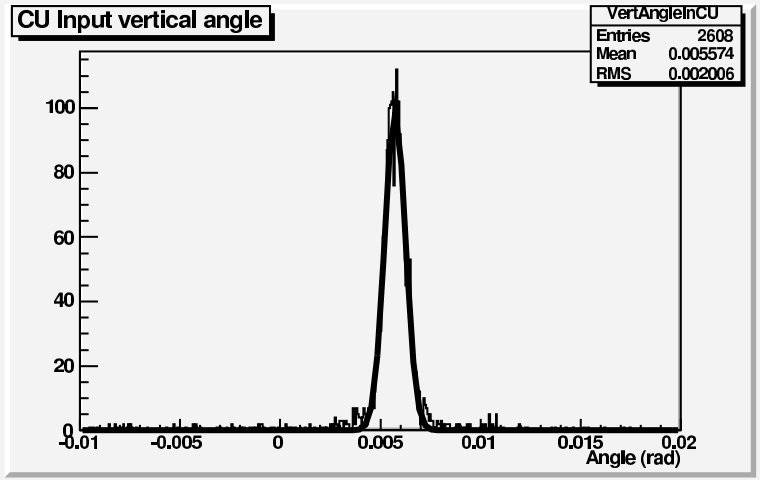

CU Input Beam Spot
SpotCoordInCU
Entries 3885
Mean x 260.6
Mean y 31.46
RMS x 4.629
RMS y 5.464
Vertical Position (mm)
Horizontal Position (mm)

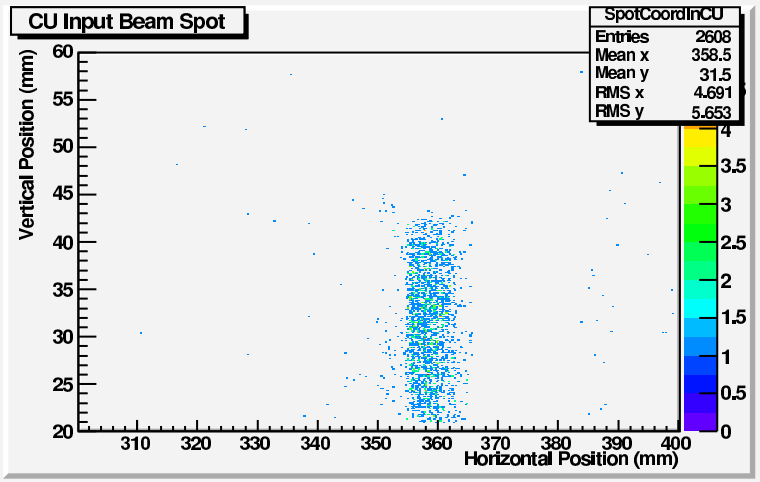

CU Input Beam Spot
SpotAngleInCU
Entries 3885
Mean x 0.005528
Mean y -0.01169
RMS x 0.002229
RMS y 0.00256
Vertical Angle (rad)
Horizontal Angle (rad)

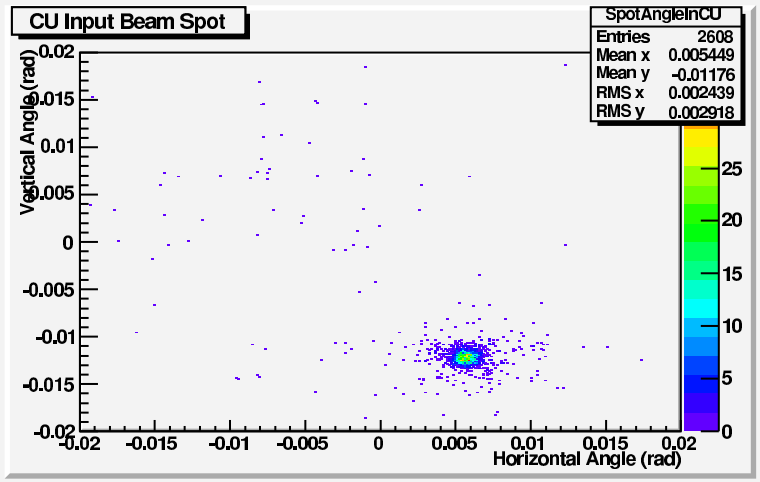

CU Input Horizontal coordinate
HorCoordInCU
Entries 2608
Mean 359.6
RMS 9.704
Position (mm)

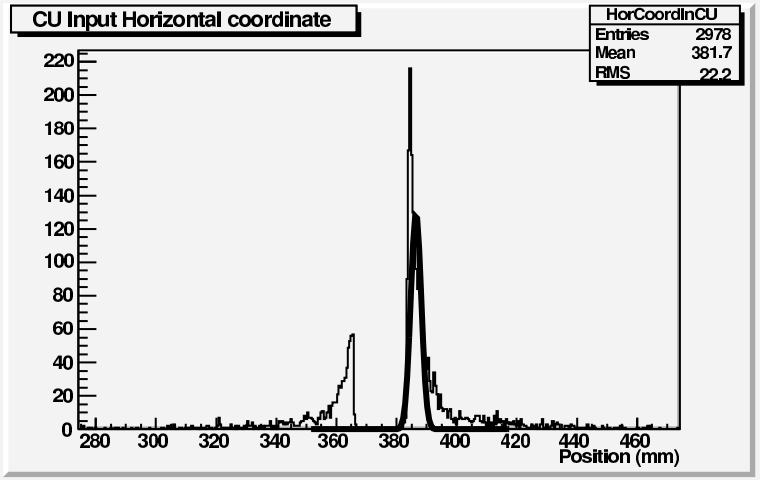

CU Input vertical coordinate
VertCoordInCU
Entries 2608
Mean 30.9
RMS 7.285
Position (mm)

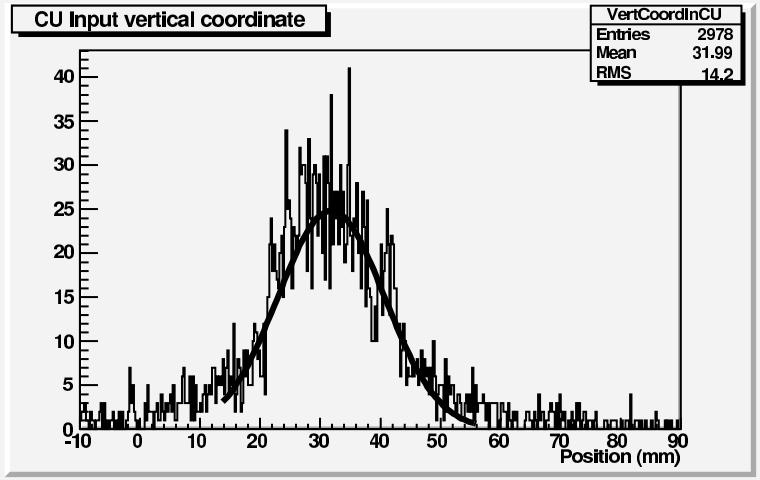

CU Input horizontal angle
HorAngleInCU
Entries 2608
Mean -0.01164
RMS 0.00333
Angle (rad)

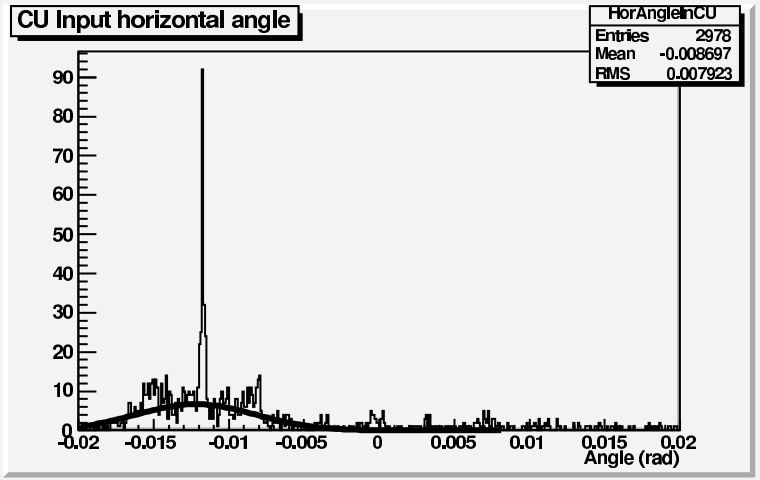

CU Input vertical angle
VertAngleInCU
Entries 2608
Mean 0.005574
RMS 0.002006
Angle (rad)

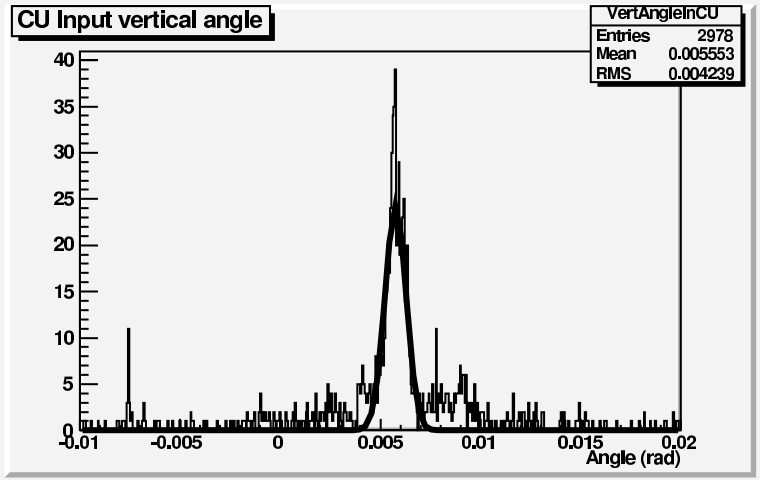

CU Input Beam Spot
SpotCoordInCU
Entries 2608
Mean x 358.5
Mean y 31.5
RMS x 4.691
RMS y 5.653
Vertical Position (mm)
Horizontal Position (mm)

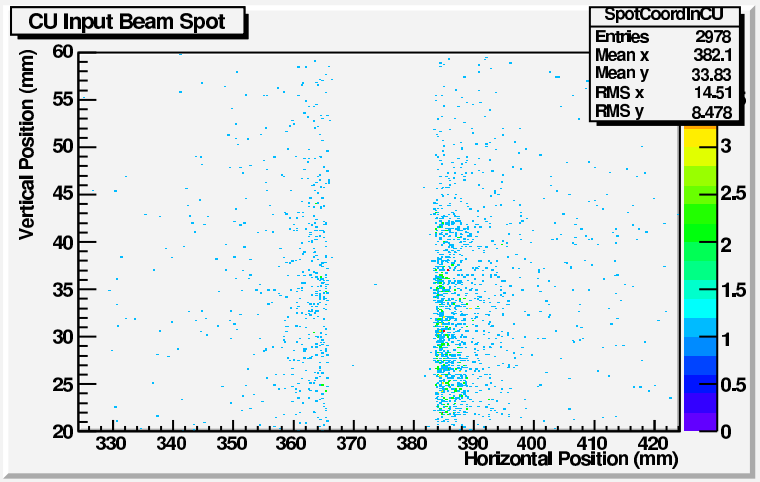

CU Input Beam Spot
SpotAngleInCU
Entries 2608
Mean x 0.005449
Mean y -0.01176
RMS x 0.002439
RMS y 0.002918
Vertical Angle (rad)
Horizontal Angle (rad)

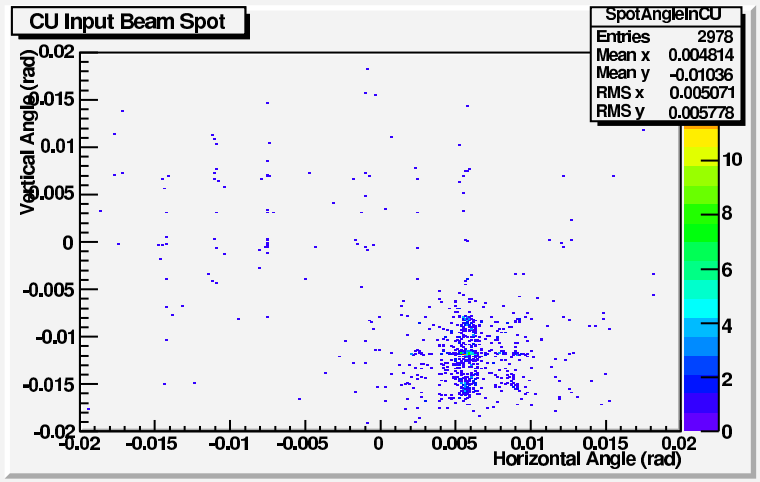

CU Input Horizontal coordinate
HorCoordInCU
Entries 2978
Mean 381.7
RMS 22.2
Position (mm)

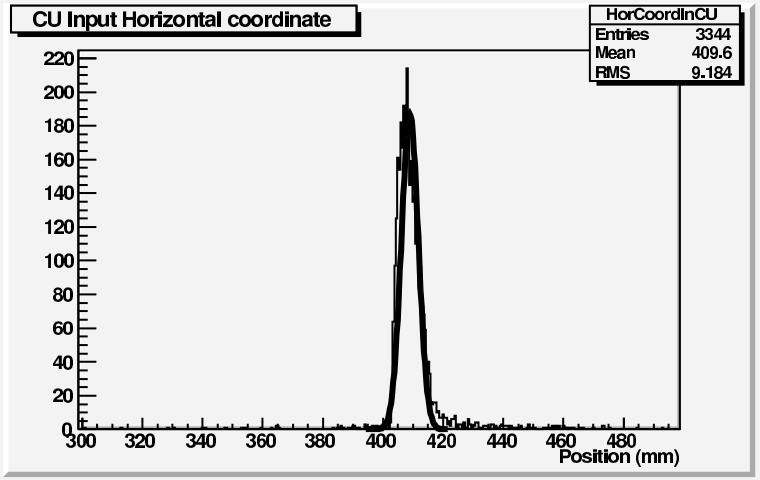

CU Input vertical coordinate
VertCoordInCU
Entries 2978
Mean 31.99
RMS 14.2
Position (mm)

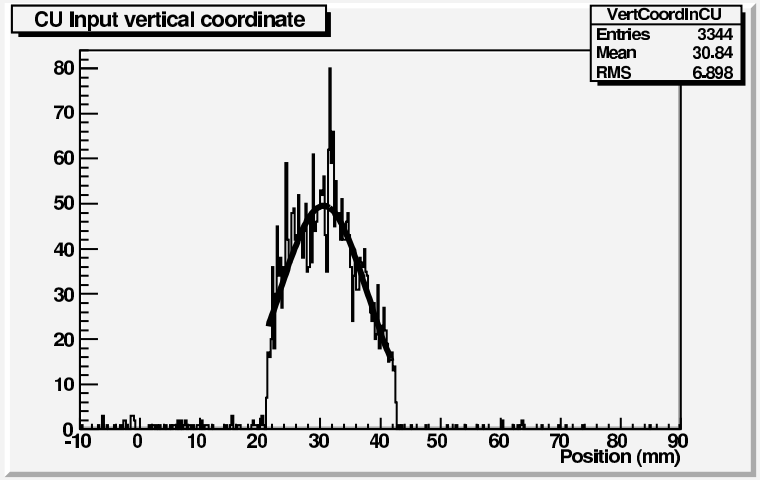

CU Input horizontal angle
HorAngleInCU
Entries 2978
Mean -0.008697
RMS 0.007923
Angle (rad)

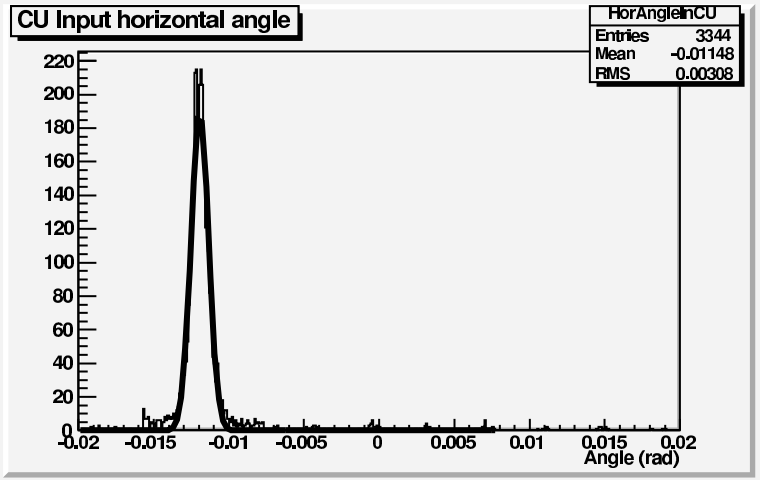

CU Input vertical angle
VertAngleInCU
Entries 2978
Mean 0.005553
RMS 0.004239
Angle (rad)

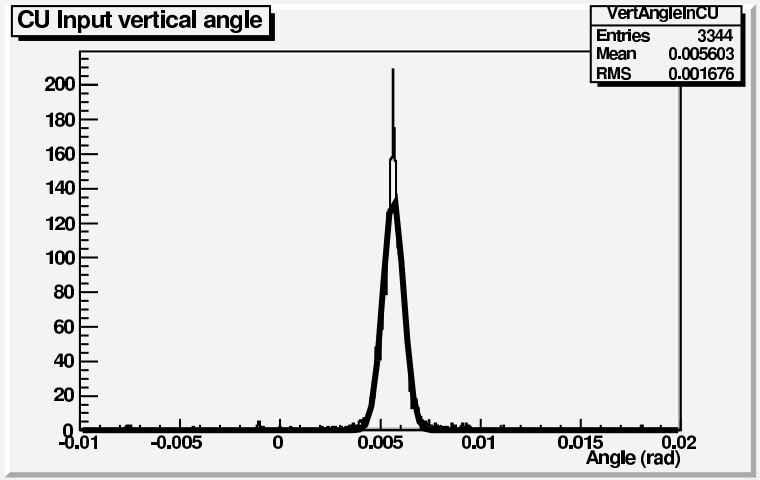

CU Input Beam Spot
SpotCoordInCU
Entries 2978
Mean x 382.1
Mean y 33.83
RMS x 14.51
RMS y 8.478
Vertical Position (mm)
Horizontal Position (mm)

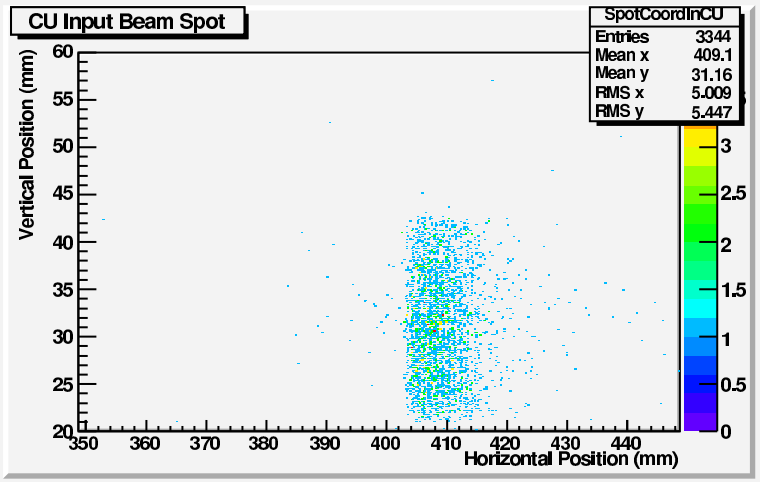

CU Input Beam Spot
SpotAngleInCU
Entries 2978
Mean x 0.004814
Mean y -0.01036
RMS x 0.005071
RMS y 0.005778
Vertical Angle (rad)
Horizontal Angle (rad)

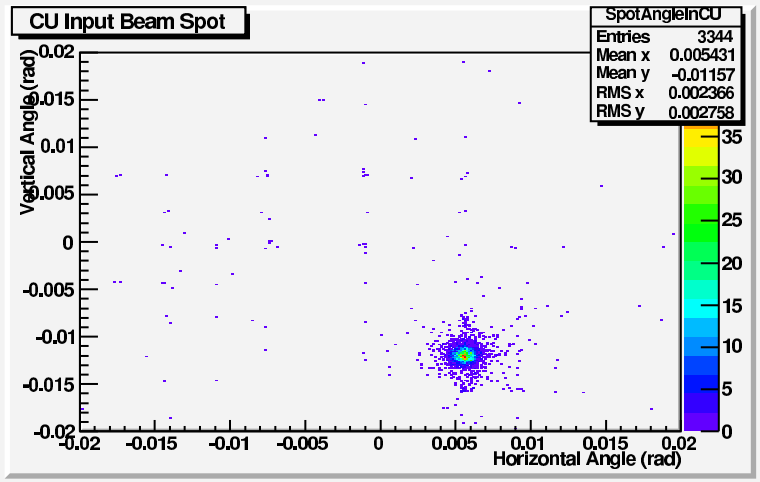

CU Input Horizontal coordinate
HorCoordInCU
Entries 3344
Mean 409.6
RMS 9.184
Position (mm)

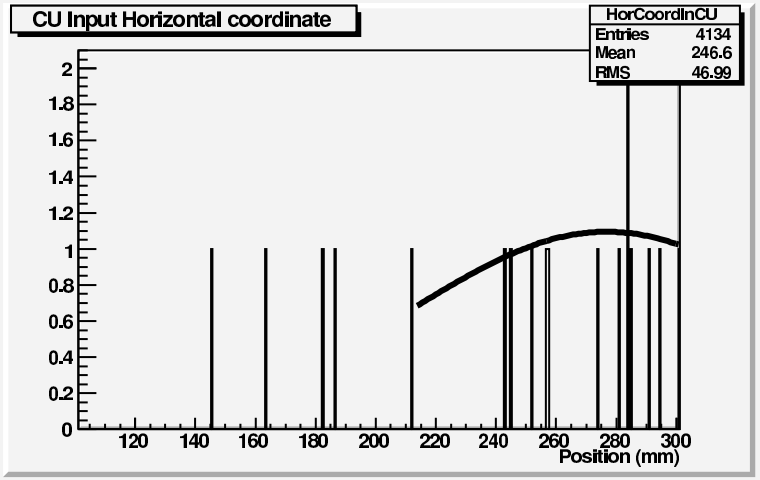

CU Input vertical coordinate
VertCoordInCU
Entries 3344
Mean 30.84
RMS 6.898
Position (mm)

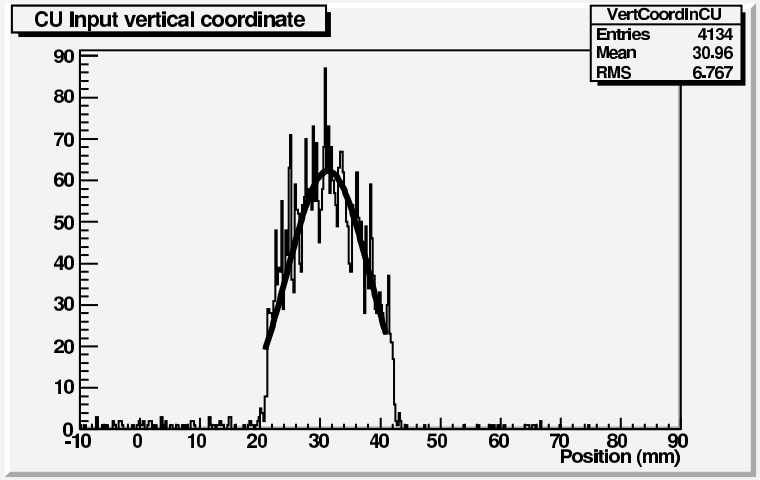

CU Input horizontal angle
HorAngleInCU
Entries 3344
Mean -0.01148
RMS 0.00308
Angle (rad)

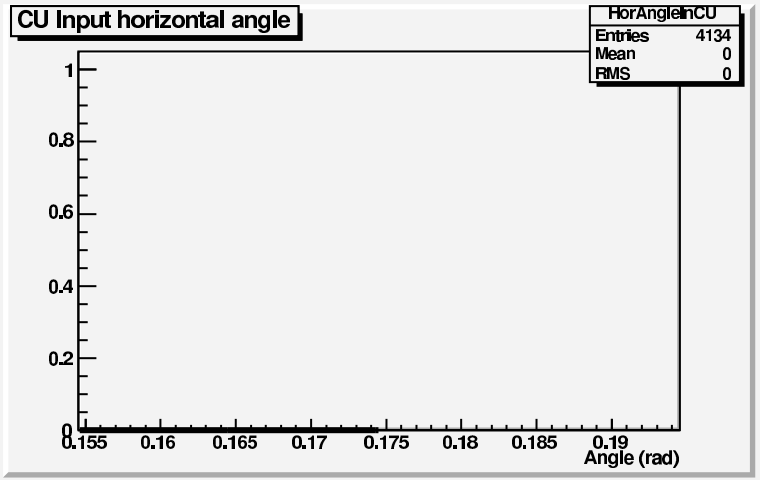

CU Input vertical angle
VertAngleInCU
Entries 3344
Mean 0.005603
RMS 0.001676
Angle (rad)

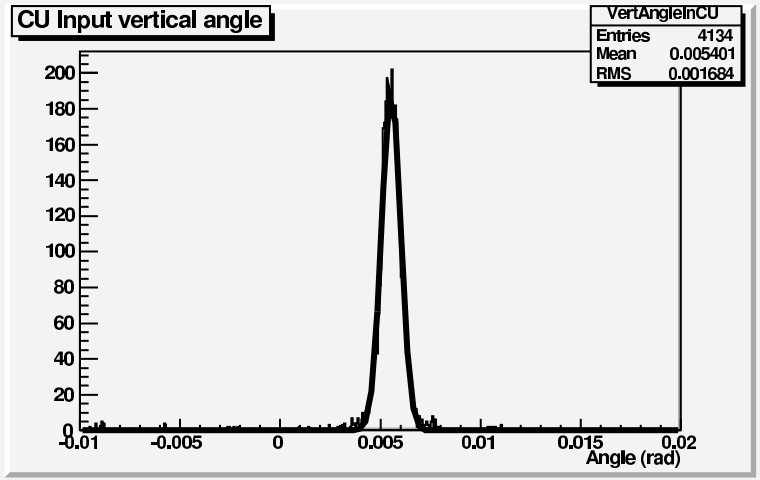

CU Input Beam Spot
SpotCoordInCU
Entries 3344
Mean x 409.1
Mean y 31.16
RMS x 5.009
RMS y 5.447
Vertical Position (mm)
Horizontal Position (mm)

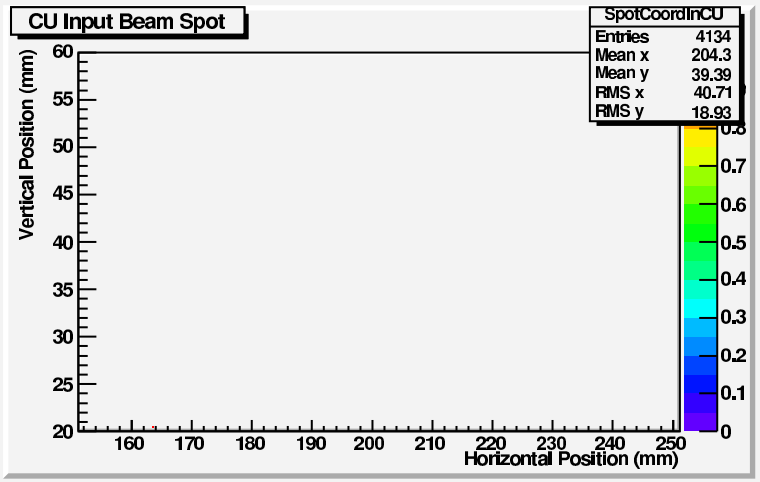

CU Input Beam Spot
SpotAngleInCU
Entries 3344
Mean x 0.005431
Mean y -0.01157
RMS x 0.002366
RMS y 0.002758
Vertical Angle (rad)
Horizontal Angle (rad)

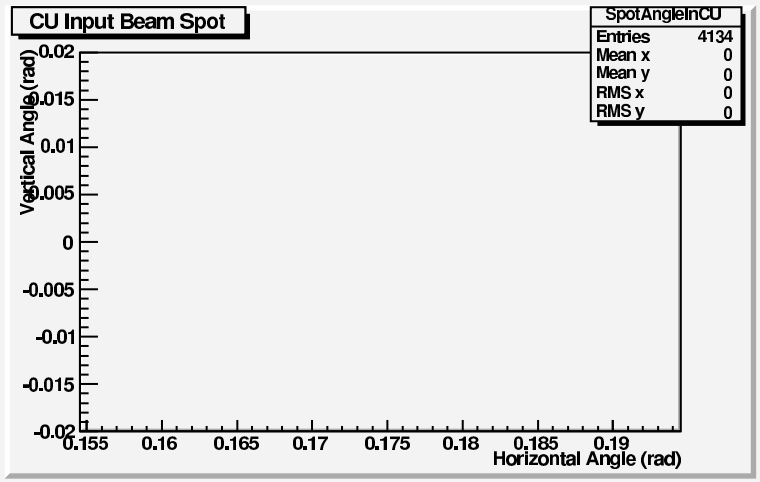

CU Input Horizontal coordinate
HorCoordInCU
Entries 4134
Mean 246.6
RMS 46.99
Position (mm)

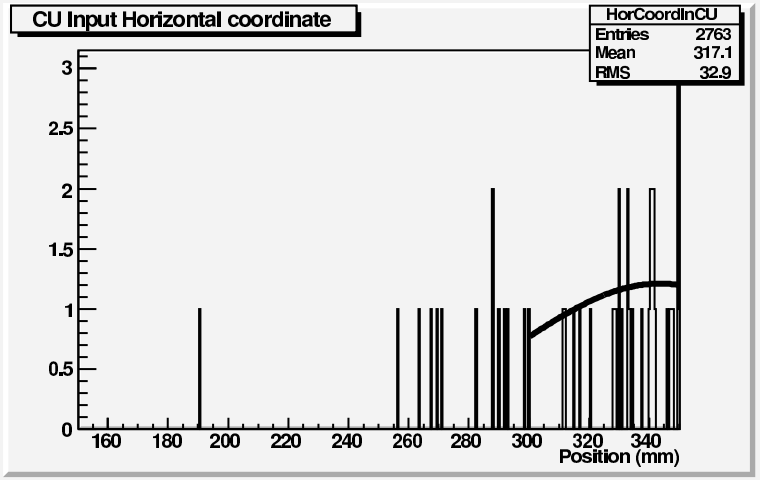

CU Input vertical coordinate
VertCoordInCU
Entries 4134
Mean 30.96
RMS 6.767
Position (mm)

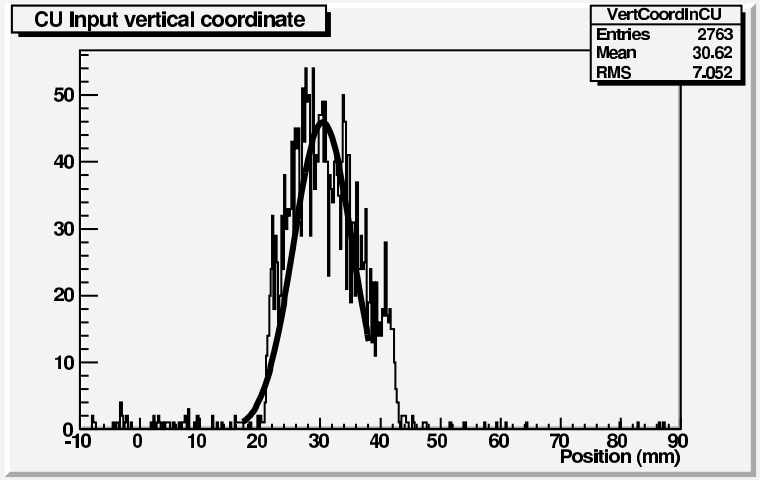

CU Input horizontal angle
HorAngleInCU
Entries 4134
Mean 0
RMS 0
Angle (rad)

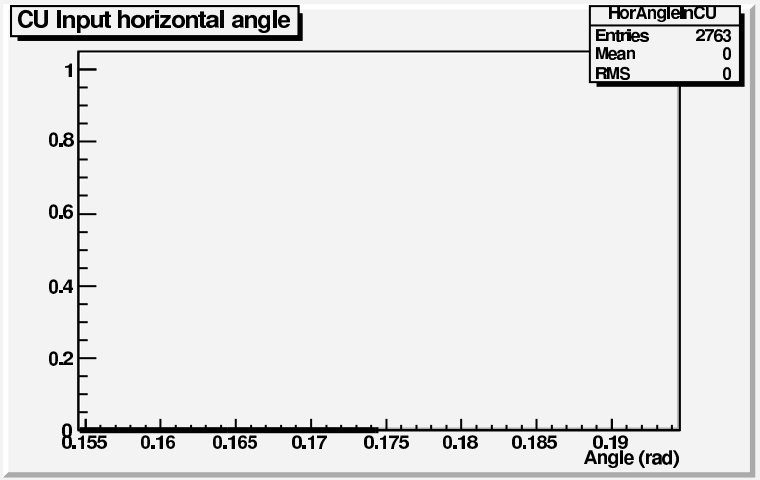

CU Input vertical angle
VertAngleInCU
Entries 4134
Mean 0.005401
RMS 0.001684
Angle (rad)

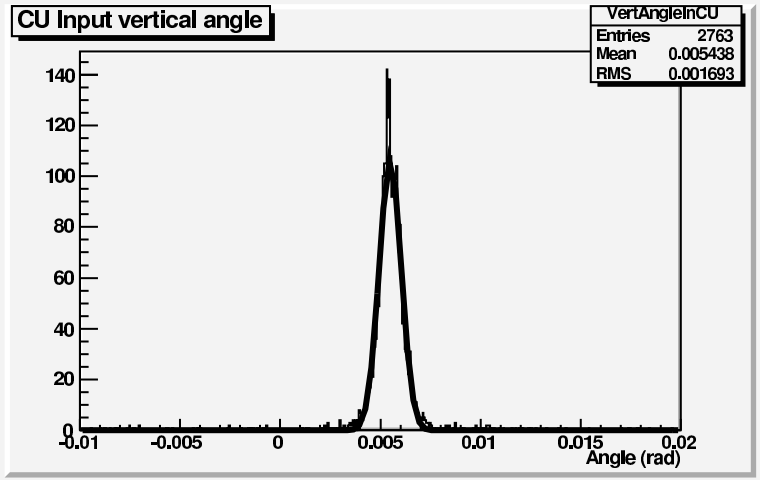

CU Input Beam Spot
SpotCoordInCU
Entries 4134
Mean x 204.3
Mean y 39.39
RMS x 40.71
RMS y 18.93
Vertical Position (mm)
Horizontal Position (mm)

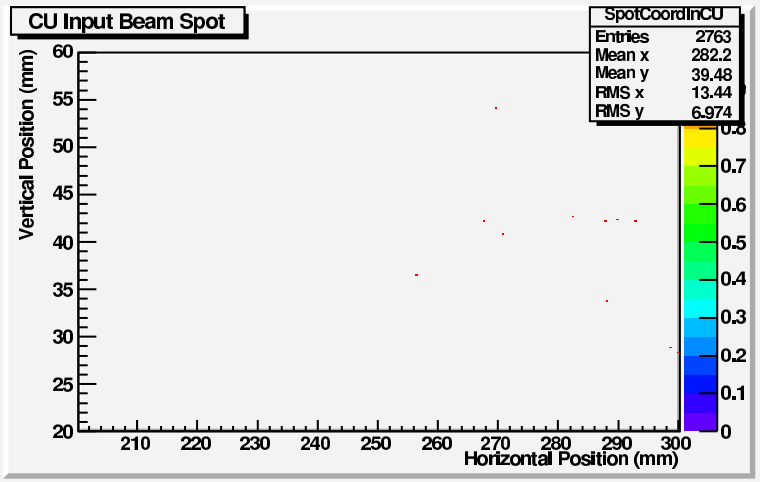

CU Input Beam Spot
SpotAngleInCU
Entries 4134
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

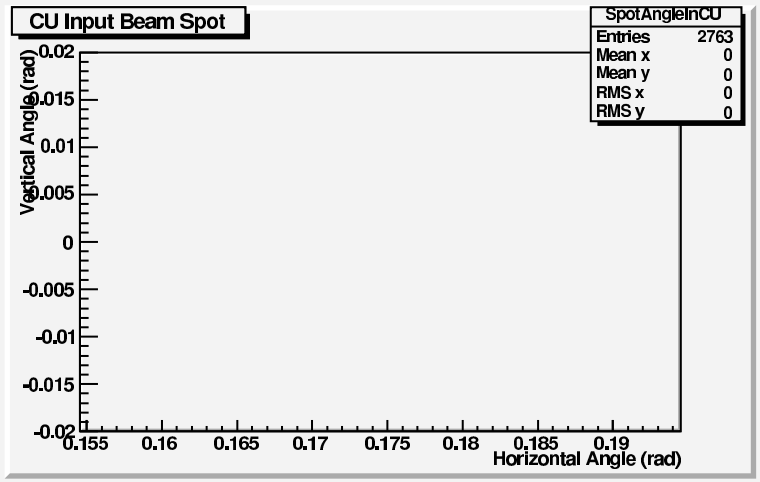

CU Input Horizontal coordinate
HorCoordInCU
Entries 2763
Mean 317.1
RMS 32.9
Position (mm)

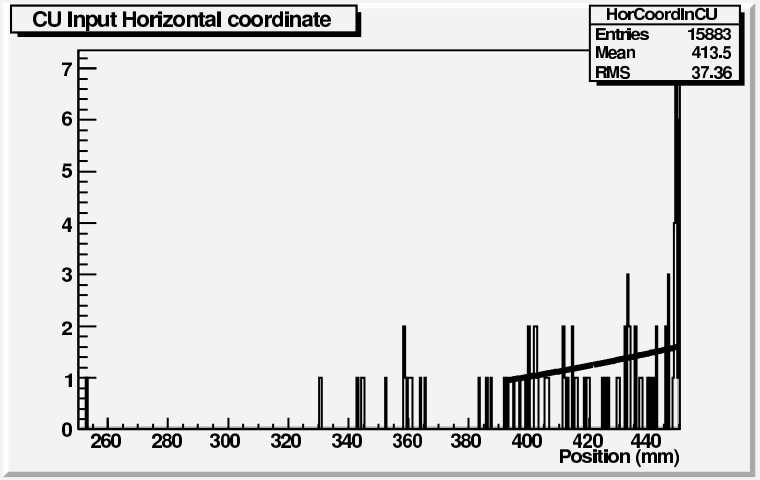

CU Input vertical coordinate
VertCoordInCU
Entries 2763
Mean 30.62
RMS 7.052
Position (mm)

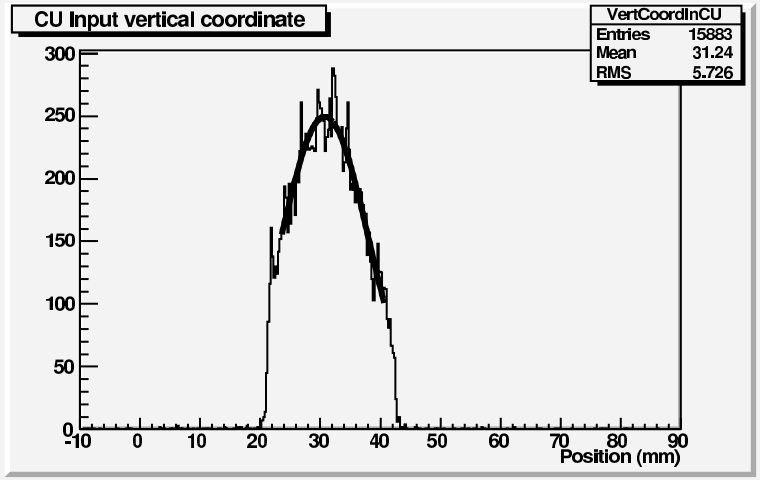

CU Input horizontal angle
HorAngleInCU
Entries 2763
Mean 0
RMS 0
Angle (rad)

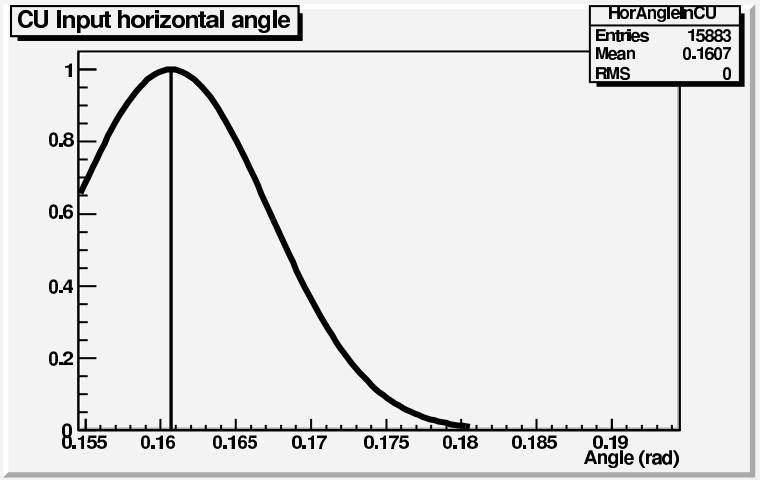

CU Input vertical angle
VertAngleInCU
Entries 2763
Mean 0.005438
RMS 0.001693
Angle (rad)

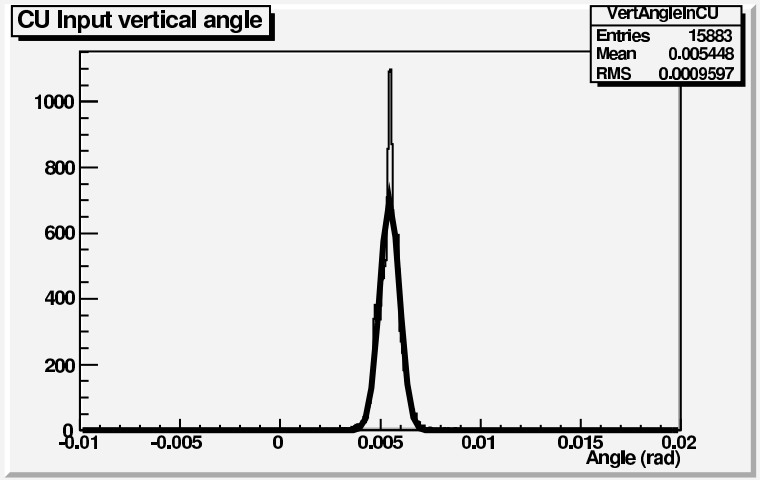

CU Input Beam Spot
SpotCoordInCU
Entries 2763
Mean x 282.2
Mean y 39.48
RMS x 13.44
RMS y 6.974
Vertical Position (mm)
Horizontal Position (mm)

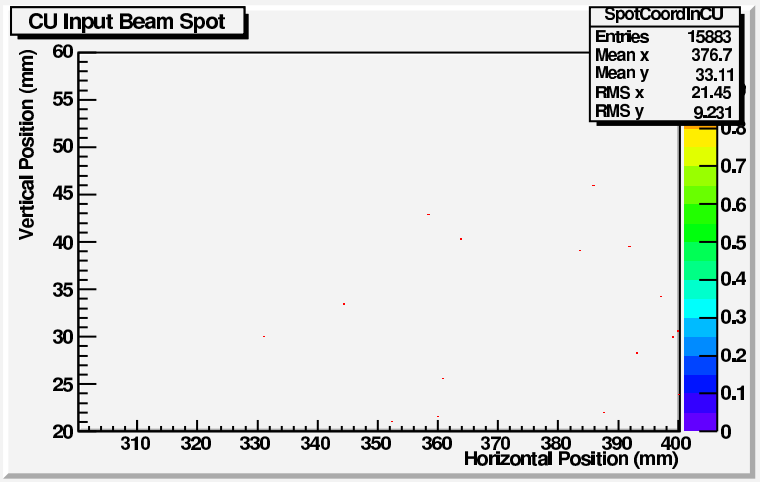

CU Input Beam Spot
SpotAngleInCU
Entries 2763
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

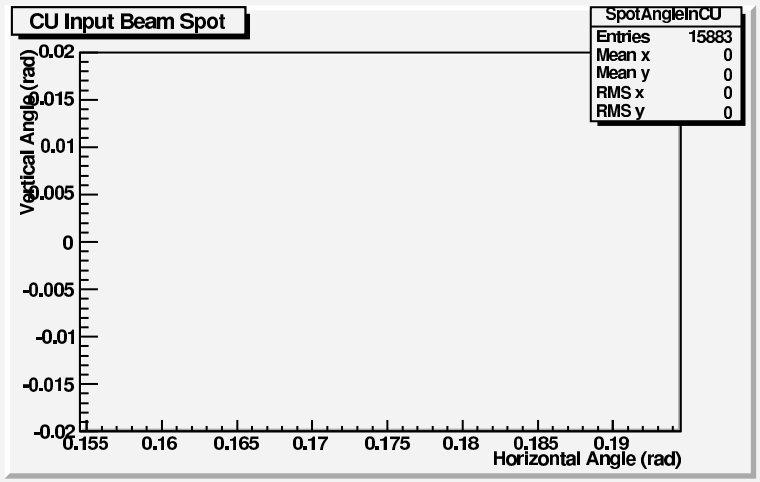

CU Input Horizontal coordinate
HorCoordInCU
Entries 15883
Mean 413.5
RMS 37.36
Position (mm)

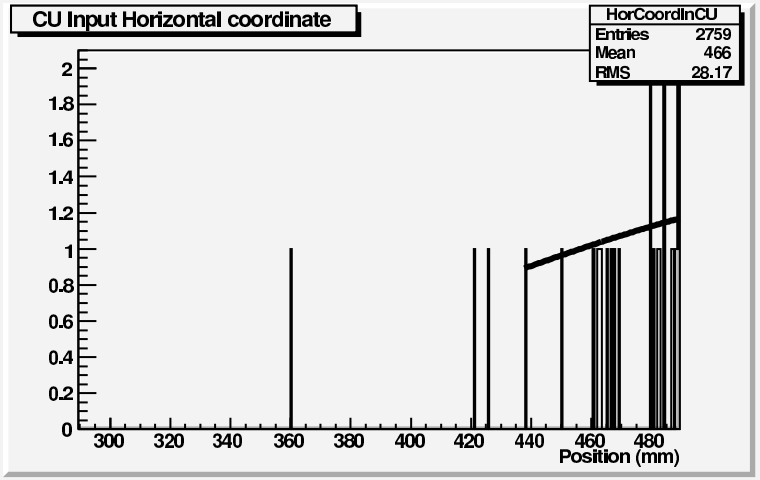

CU Input vertical coordinate
VertCoordInCU
Entries 15883
Mean 31.24
RMS 5.726
Position (mm)

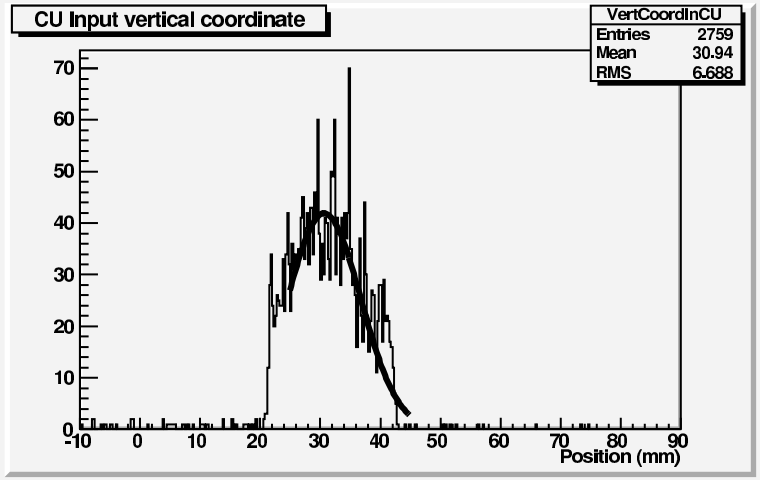

CU Input horizontal angle
HorAngleInCU
Entries 15883
Mean 0.1607
RMS 0
Angle (rad)

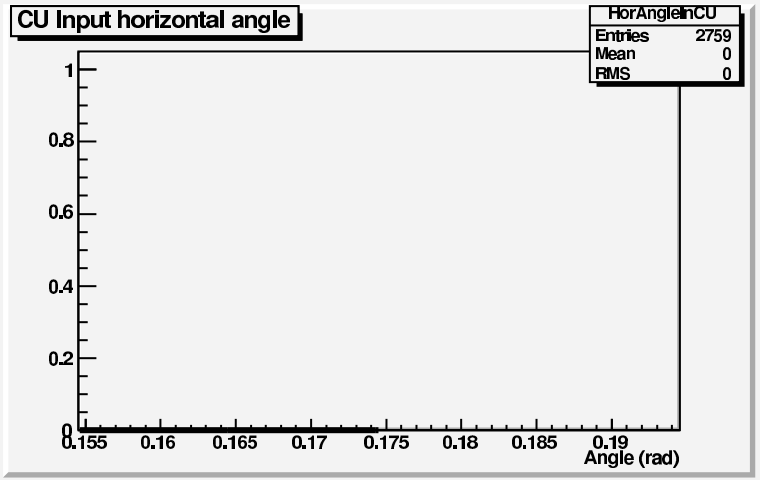

CU Input vertical angle
VertAngleInCU
Entries 15883
Mean 0.005448
RMS 0.0009597
Angle (rad)

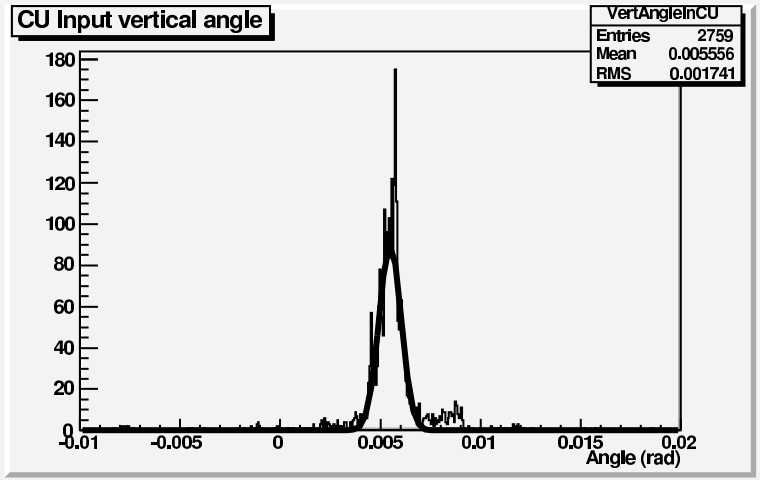

CU Input Beam Spot
SpotCoordInCU
Entries 15883
Mean x 376.7
Mean y 33.11
RMS x 21.45
RMS y 9.231
Vertical Position (mm)
Horizontal Position (mm)

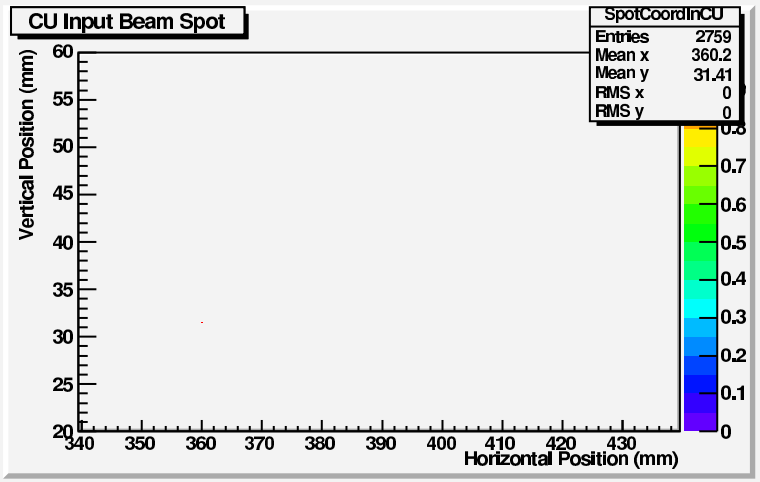

CU Input Beam Spot
SpotAngleInCU
Entries 15883
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

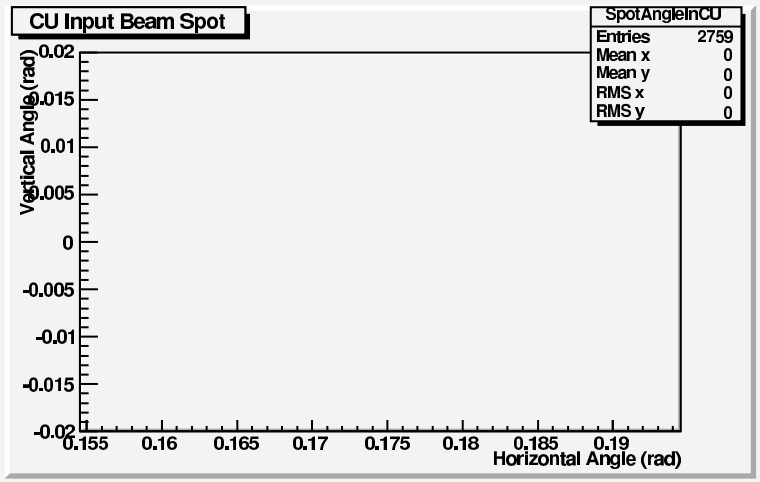

CU Input Horizontal coordinate
HorCoordInCU
Entries 2759
Mean 466
RMS 28.17
Position (mm)

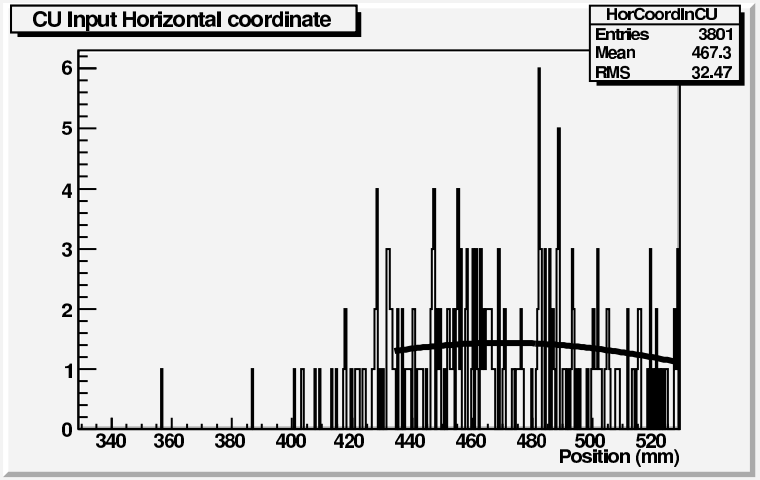

CU Input vertical coordinate
VertCoordInCU
Entries 2759
Mean 30.94
RMS 6.688
Position (mm)

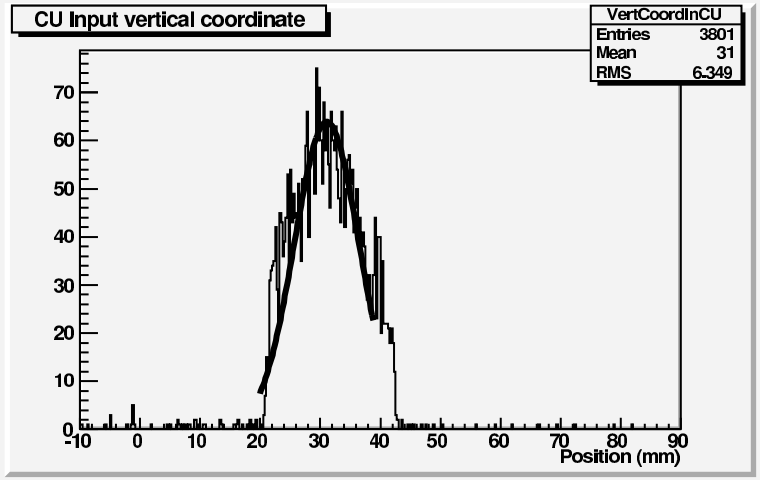

CU Input horizontal angle
HorAngleInCU
Entries 2759
Mean 0
RMS 0
Angle (rad)

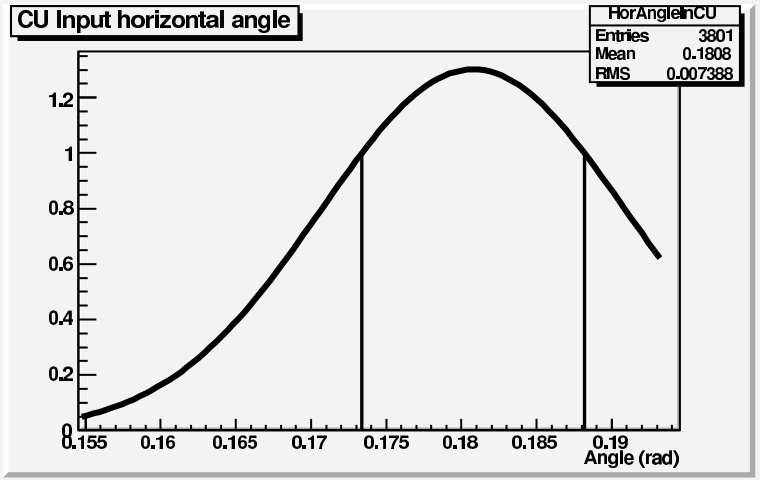

CU Input vertical angle
VertAngleInCU
Entries 2759
Mean 0.005556
RMS 0.001741
Angle (rad)

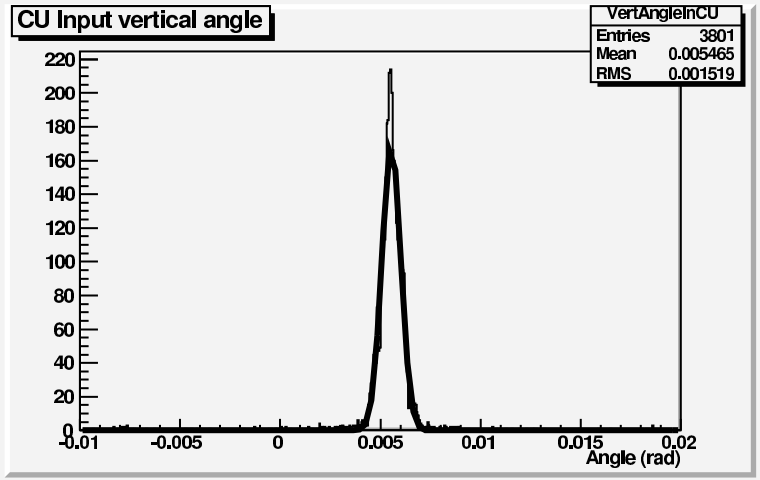

CU Input Beam Spot
SpotCoordInCU
Entries 2759
Mean x 360.2
Mean y 31.41
RMS x 0
RMS y 0
Vertical Position (mm)
Horizontal Position (mm)

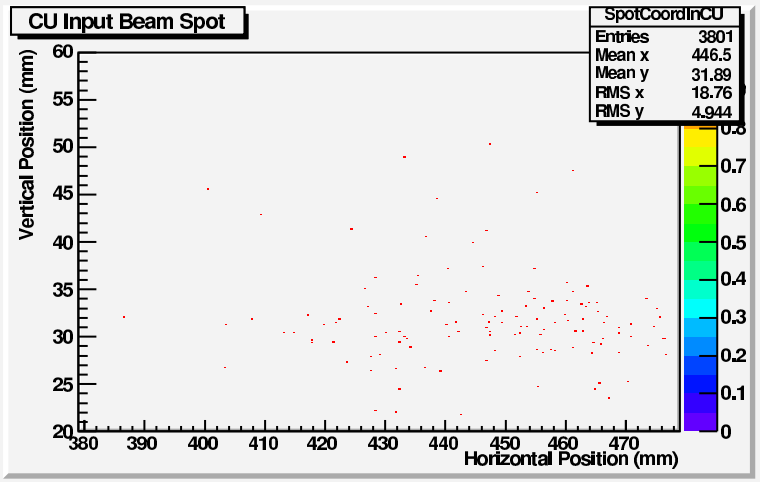

CU Input Beam Spot
SpotAngleInCU
Entries 2759
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

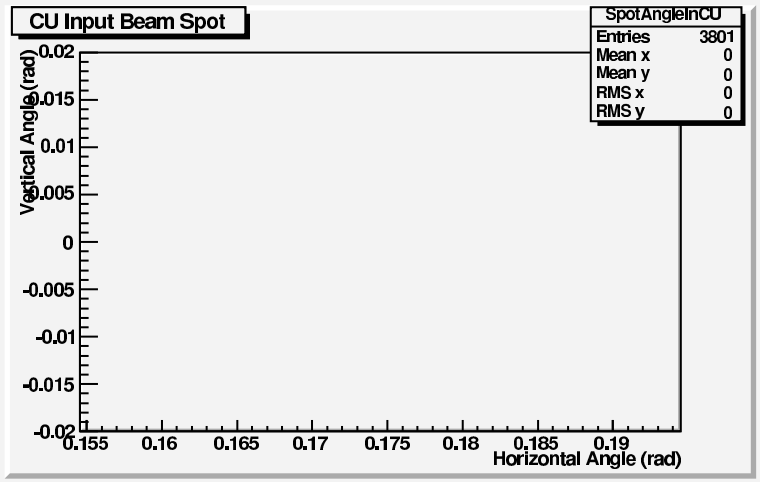

CU Input Horizontal coordinate
HorCoordInCU
Entries 3801
Mean 467.3
RMS 32.47
Position (mm)

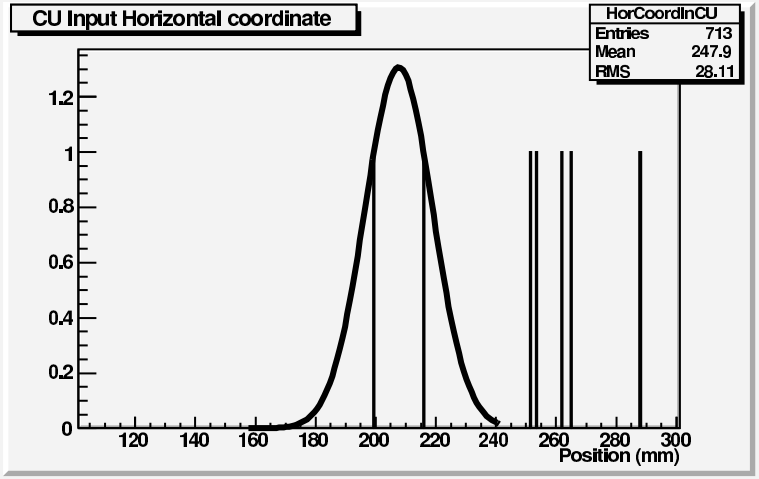

CU Input vertical coordinate
VertCoordInCU
Entries 3801
Mean 31
RMS 6.349
Position (mm)

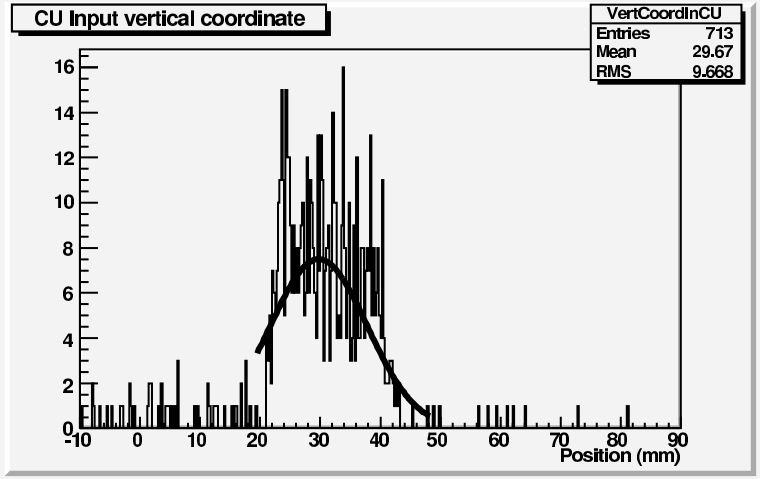

CU Input horizontal angle
HorAngleInCU
Entries 3801
Mean 0.1808
RMS 0.007388
Angle (rad)

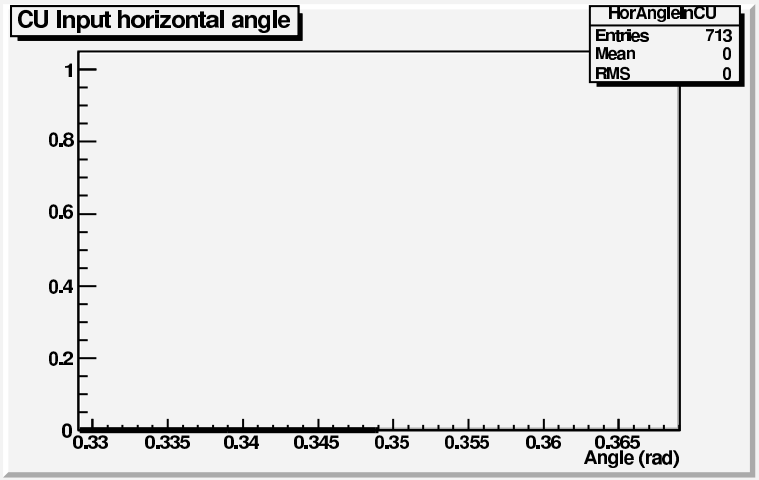

CU Input vertical angle
VertAngleInCU
Entries 3801
Mean 0.005465
RMS 0.001519
Angle (rad)

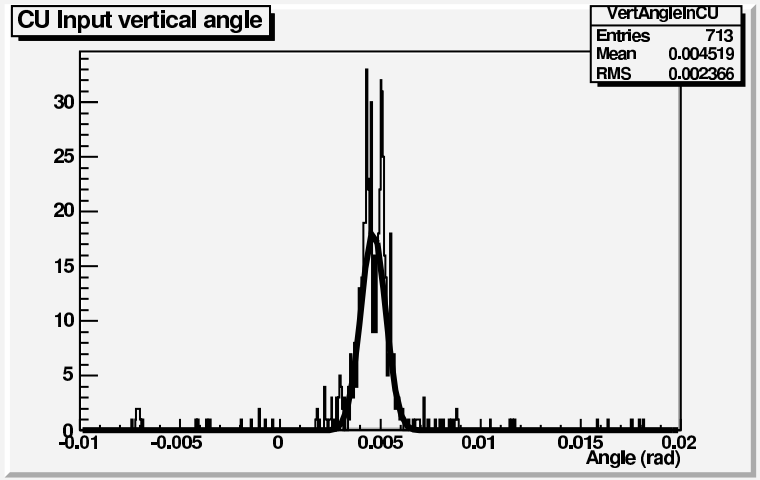

CU Input Beam Spot
SpotCoordInCU
Entries 3801
Mean x 446.5
Mean y 31.89
RMS x 18.76
RMS y 4.944
Vertical Position (mm)
Horizontal Position (mm)

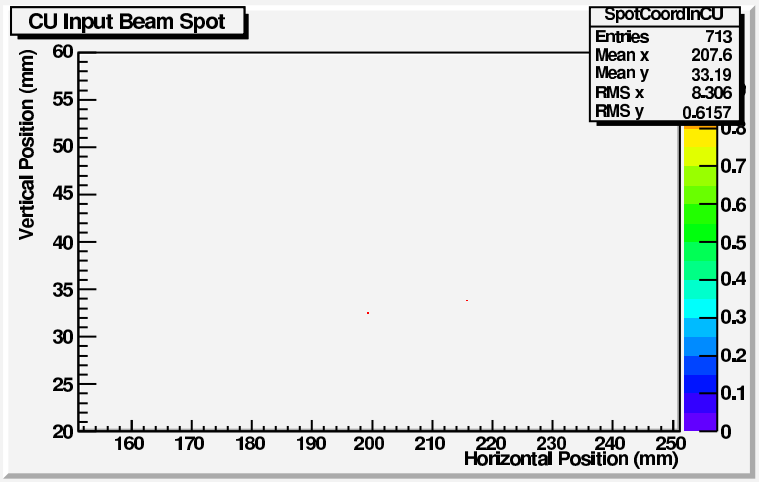

CU Input Beam Spot
SpotAngleInCU
Entries 3801
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

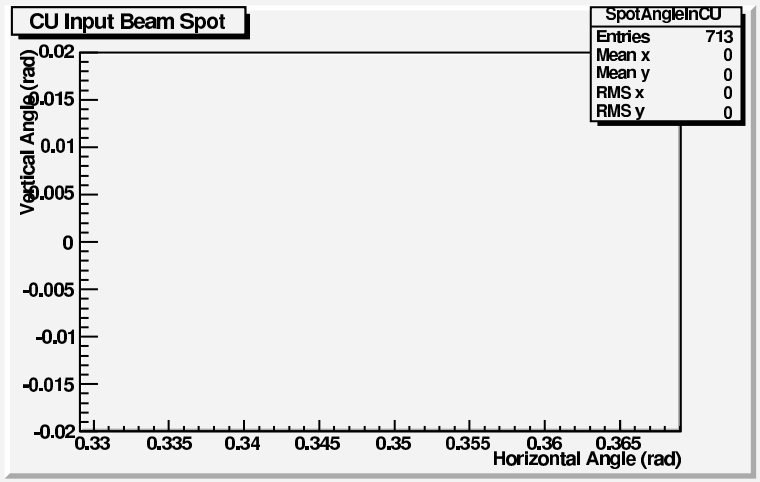

CU Input Horizontal coordinate
HorCoordInCU
Entries 713
Mean 247.9
RMS 28.11
Position (mm)

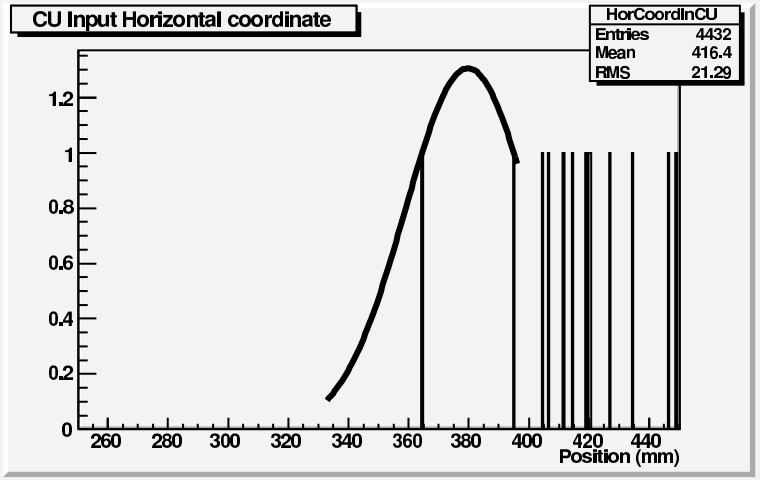

CU Input vertical coordinate
VertCoordInCU
Entries 713
Mean 29.67
RMS 9.668
Position (mm)

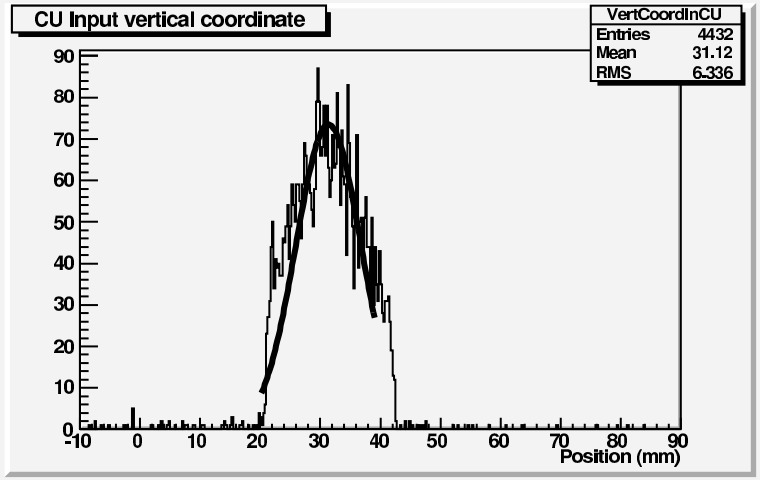

CU Input horizontal angle
HorAngleInCU
Entries 713
Mean 0
RMS 0
Angle (rad)

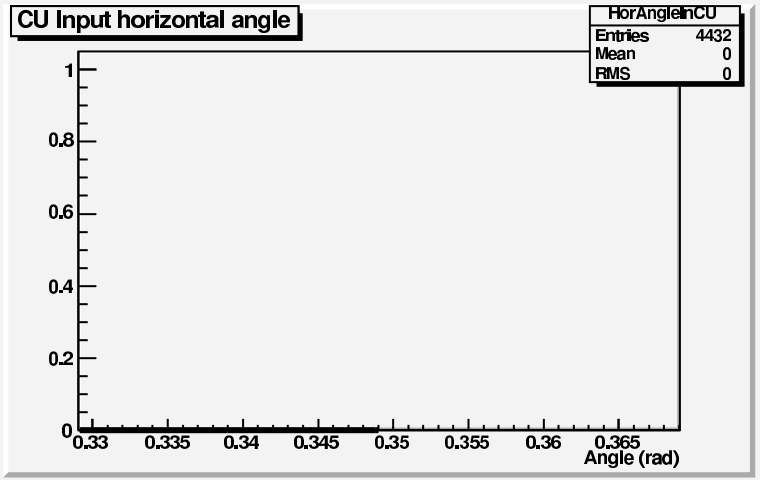

CU Input vertical angle
VertAngleInCU
Entries 713
Mean 0.004519
RMS 0.002366
Angle (rad)

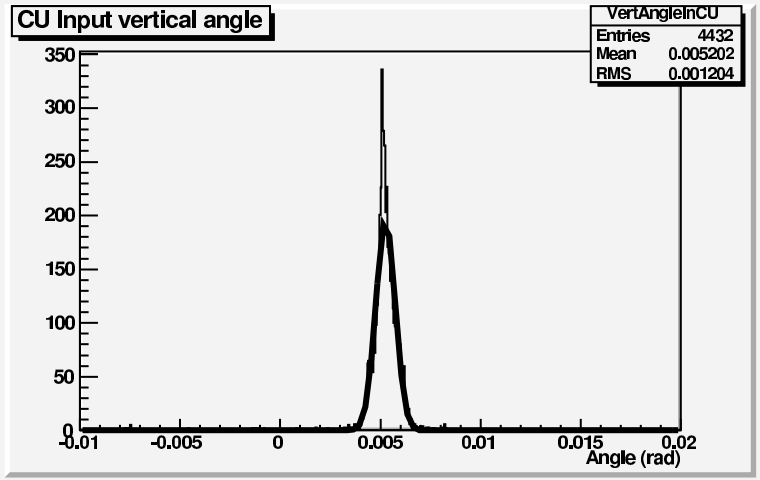

CU Input Beam Spot
SpotCoordInCU
Entries 713
Mean x 207.6
Mean y 33.19
RMS x 8.306
RMS y 0.6157
Vertical Position (mm)
Horizontal Position (mm)

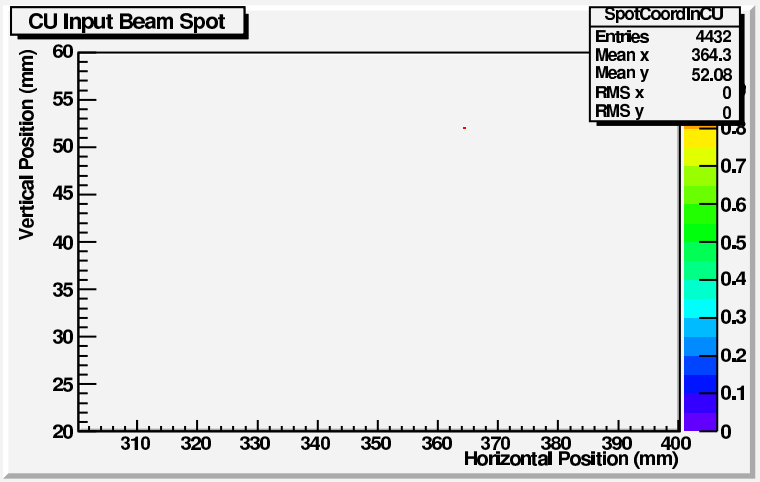

CU Input Beam Spot
SpotAngleInCU
Entries 713
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

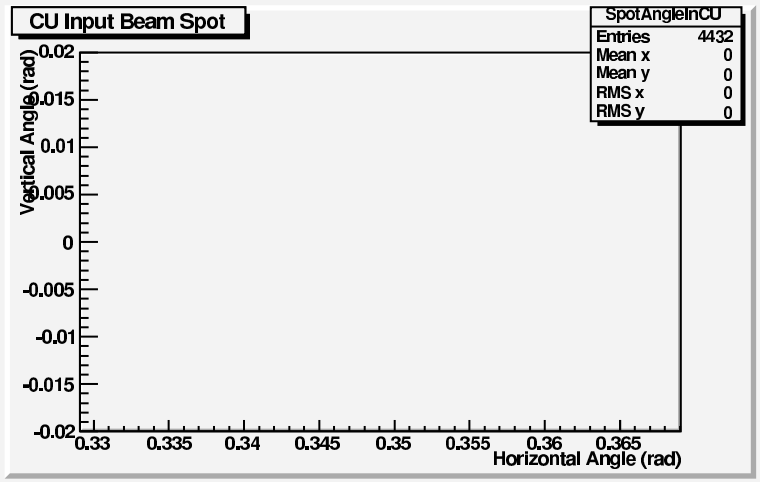

CU Input Horizontal coordinate
HorCoordInCU
Entries 4432
Mean 416.4
RMS 21.29
Position (mm)

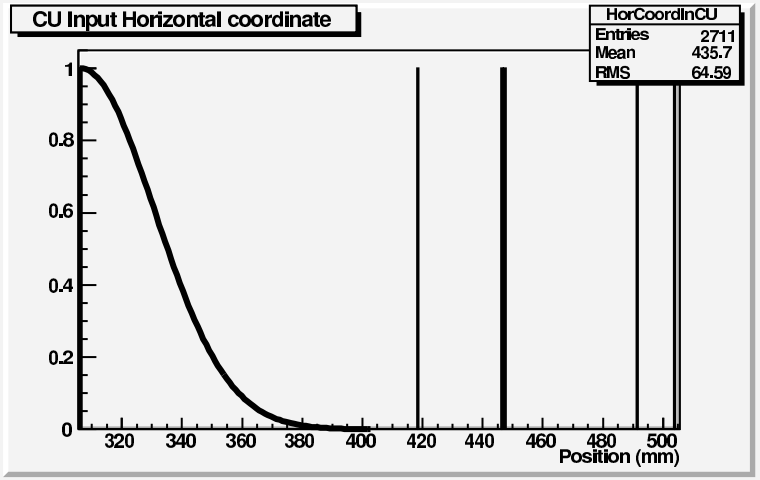

CU Input vertical coordinate
VertCoordInCU
Entries 4432
Mean 31.12
RMS 6.336
Position (mm)

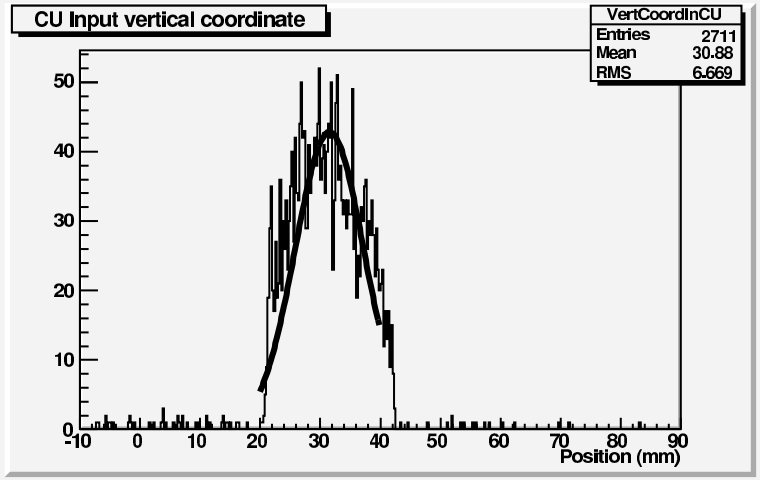

CU Input horizontal angle
HorAngleInCU
Entries 4432
Mean 0
RMS 0
Angle (rad)

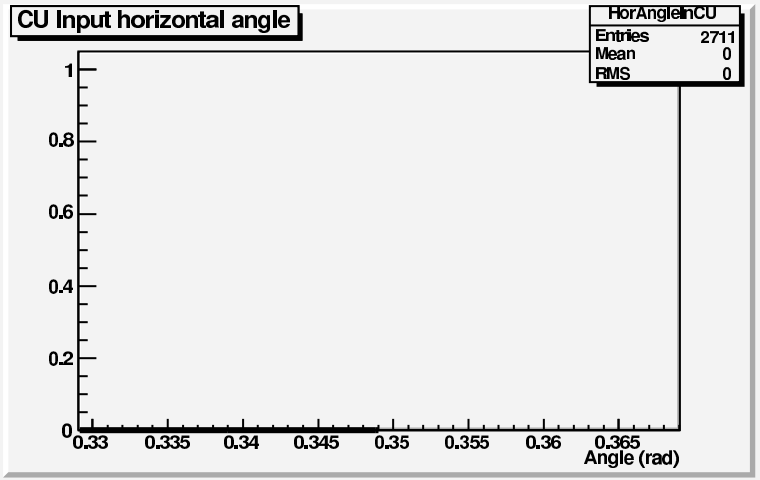

CU Input vertical angle
VertAngleInCU
Entries 4432
Mean 0.005202
RMS 0.001204
Angle (rad)

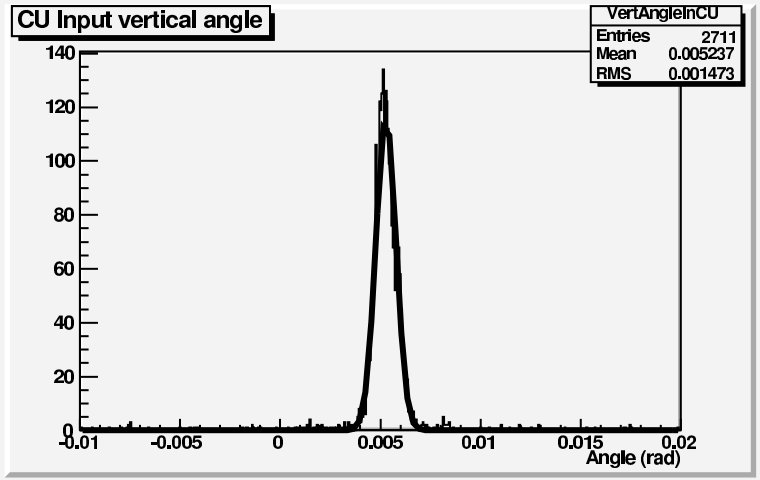

CU Input Beam Spot
SpotCoordInCU
Entries 4432
Mean x 364.3
Mean y 52.08
RMS x 0
RMS y 0
Vertical Position (mm)
Horizontal Position (mm)

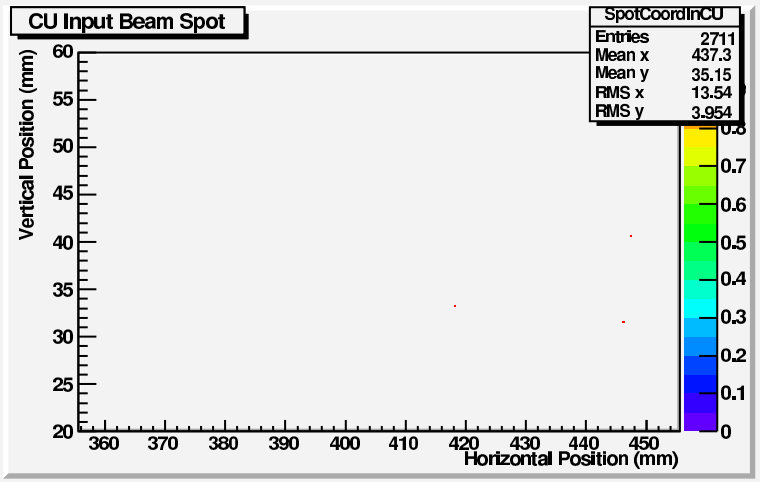

CU Input Beam Spot
SpotAngleInCU
Entries 4432
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

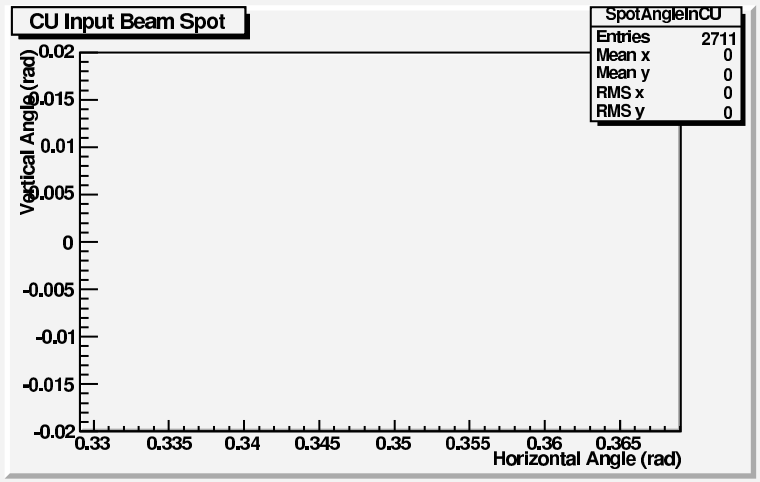

CU Input Horizontal coordinate
HorCoordInCU
Entries 2711
Mean 435.7
RMS 64.59
Position (mm)

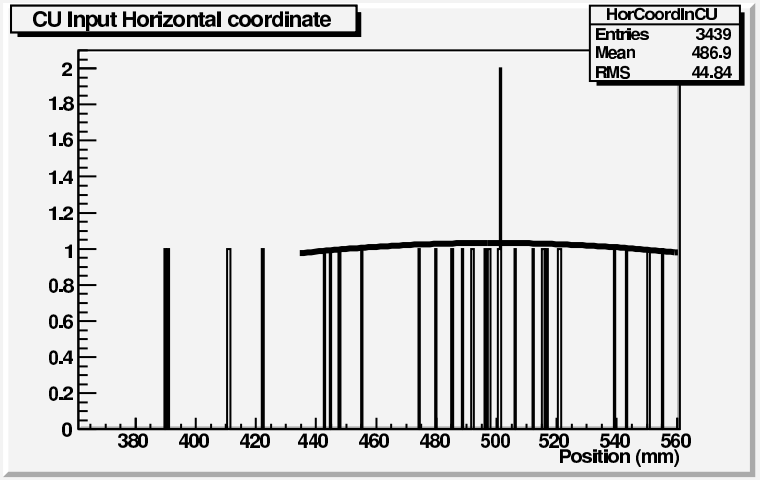

CU Input vertical coordinate
VertCoordInCU
Entries 2711
Mean 30.88
RMS 6.669
Position (mm)

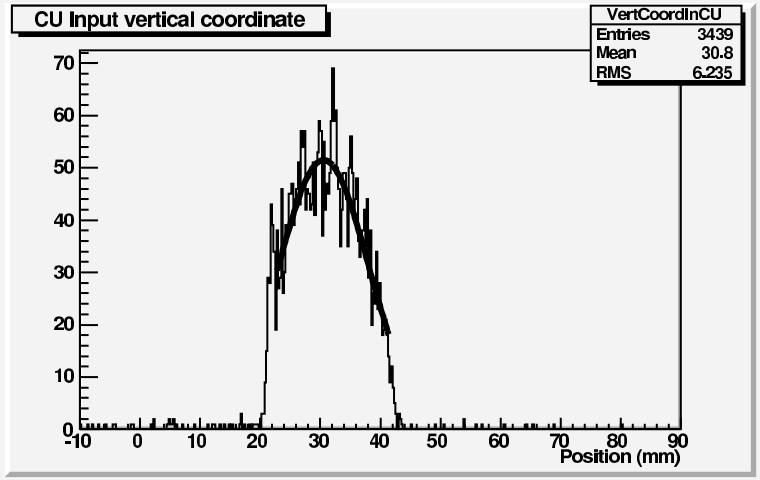

CU Input horizontal angle
HorAngleInCU
Entries 2711
Mean 0
RMS 0
Angle (rad)

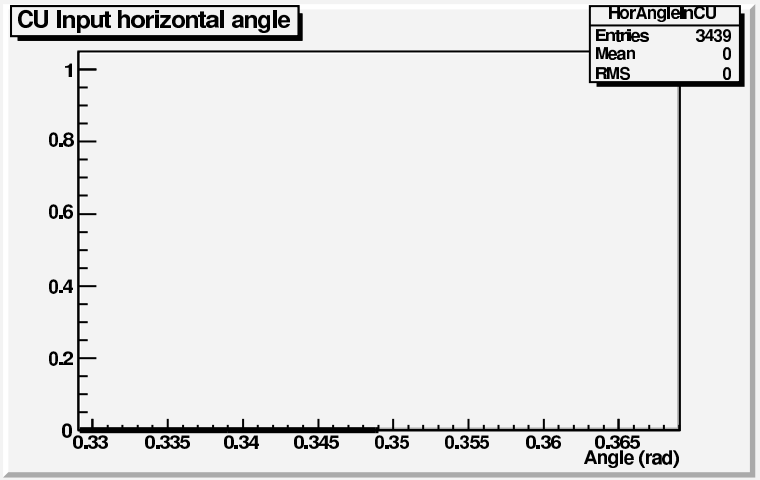

CU Input vertical angle
VertAngleInCU
Entries 2711
Mean 0.005237
RMS 0.001473
Angle (rad)

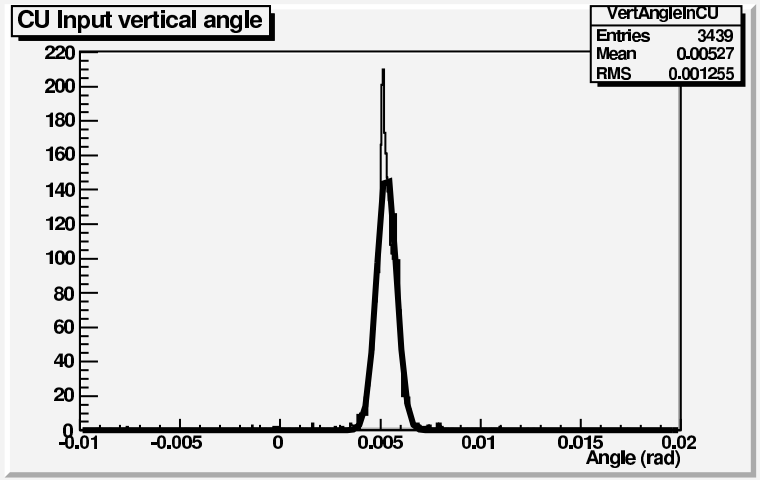

CU Input Beam Spot
SpotCoordInCU
Entries 2711
Mean x 437.3
Mean y 35.15
RMS x 13.54
RMS y 3.954
Vertical Position (mm)
Horizontal Position (mm)

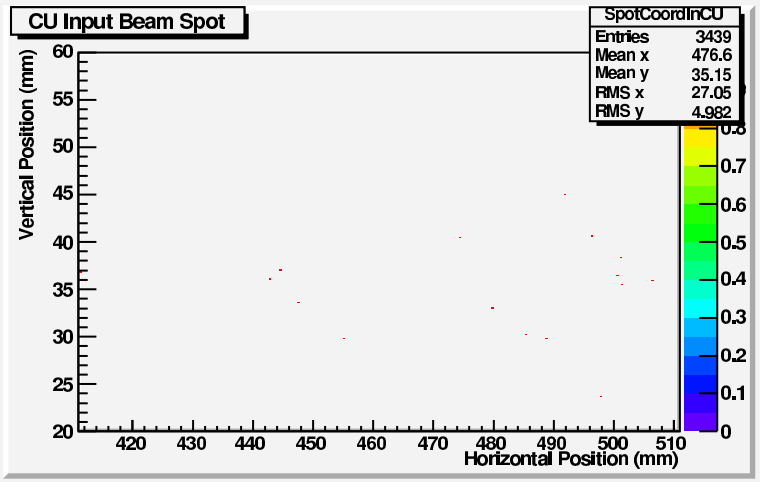

CU Input Beam Spot
SpotAngleInCU
Entries 2711
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

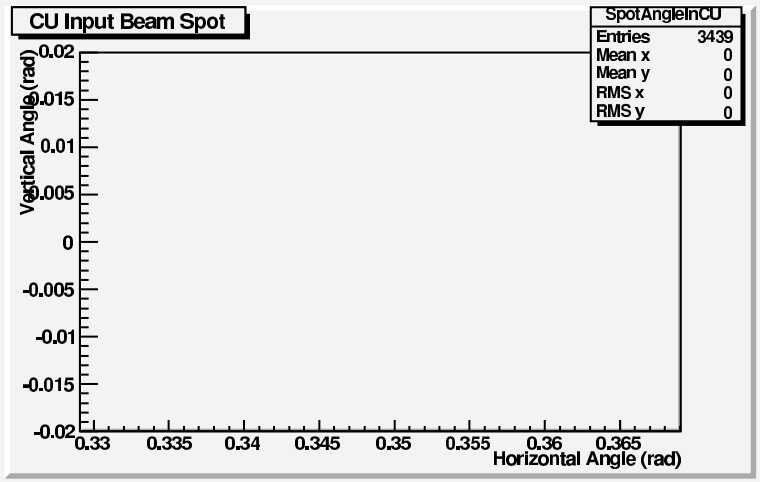

CU Input Horizontal coordinate
HorCoordInCU
Entries 3439
Mean 486.9
RMS 44.84
Position (mm)

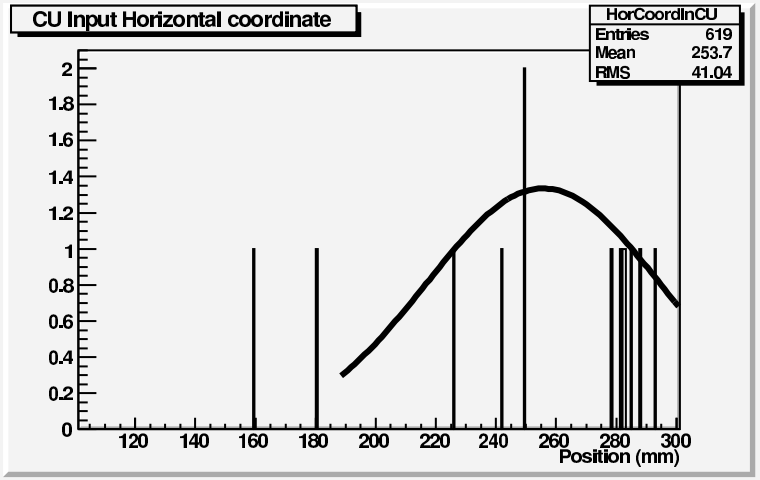

CU Input vertical coordinate
VertCoordInCU
Entries 3439
Mean 30.8
RMS 6.235
Position (mm)

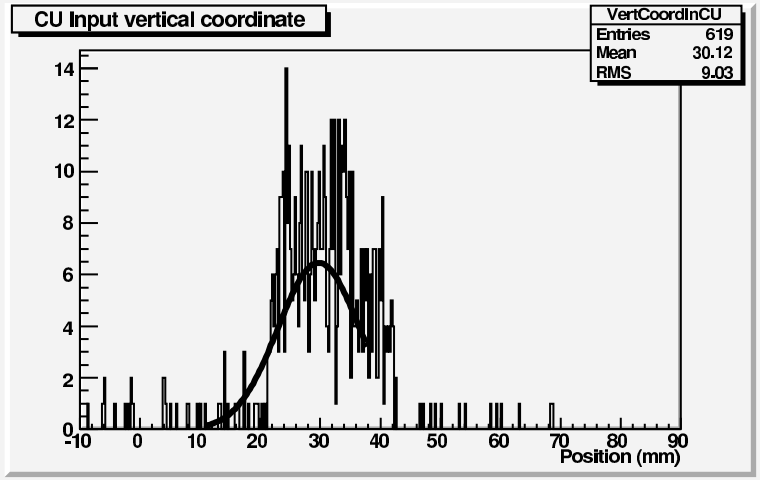

CU Input horizontal angle
HorAngleInCU
Entries 3439
Mean 0
RMS 0
Angle (rad)

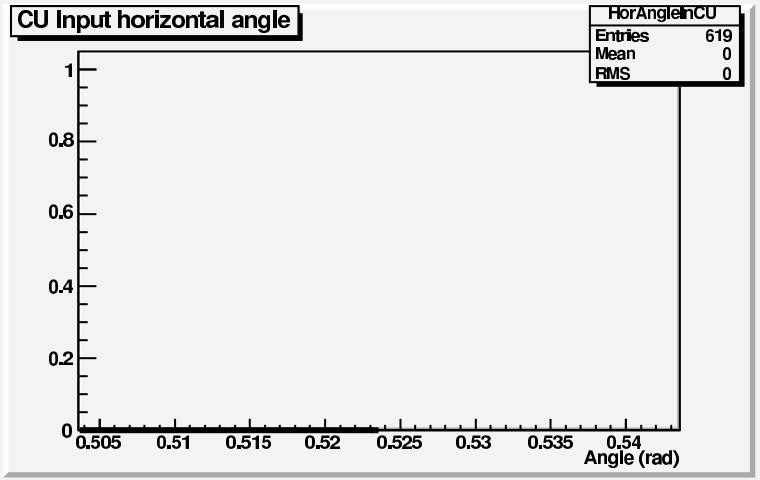

CU Input vertical angle
VertAngleInCU
Entries 3439
Mean 0.00527
RMS 0.001255
Angle (rad)

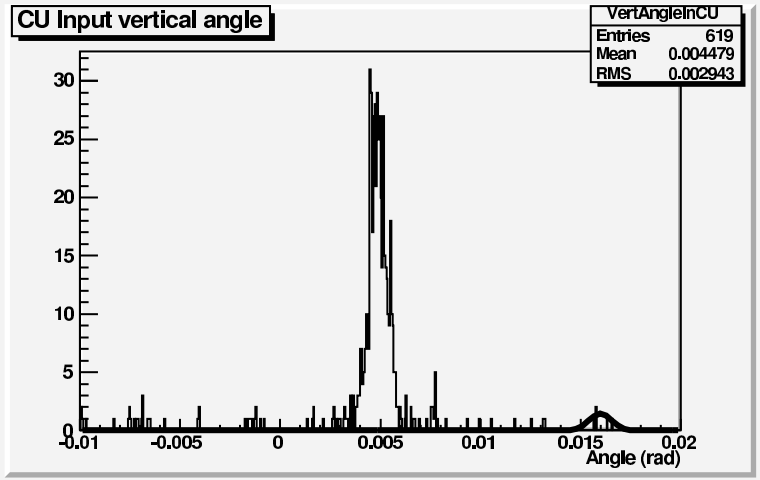

CU Input Beam Spot
SpotCoordInCU
Entries 3439
Mean x 476.6
Mean y 35.15
RMS x 27.05
RMS y 4.982
Vertical Position (mm)
Horizontal Position (mm)

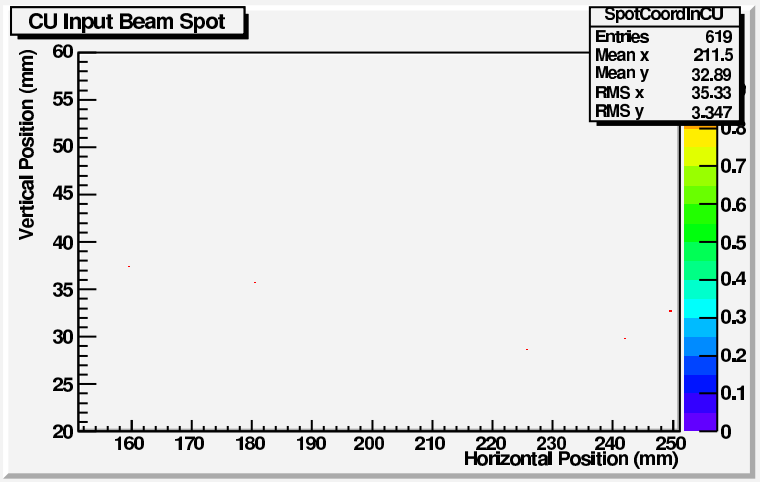

CU Input Beam Spot
SpotAngleInCU
Entries 3439
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

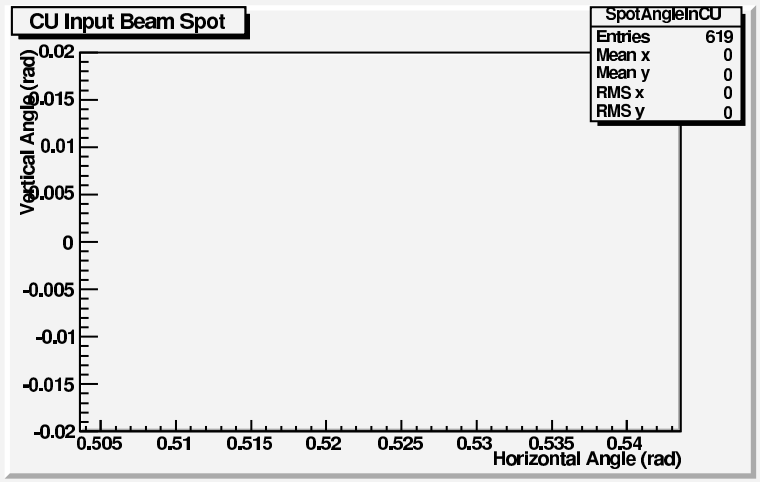

CU Input Horizontal coordinate
HorCoordInCU
Entries 619
Mean 253.7
RMS 41.04
Position (mm)

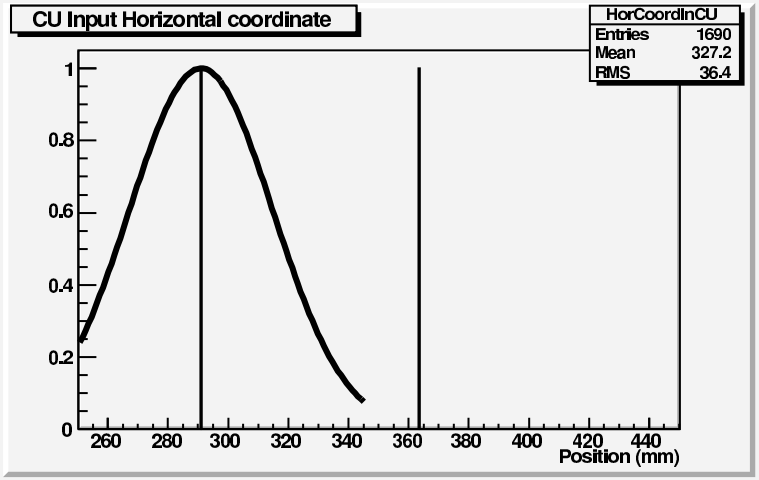

CU Input vertical coordinate
VertCoordInCU
Entries 619
Mean 30.12
RMS 9.03
Position (mm)

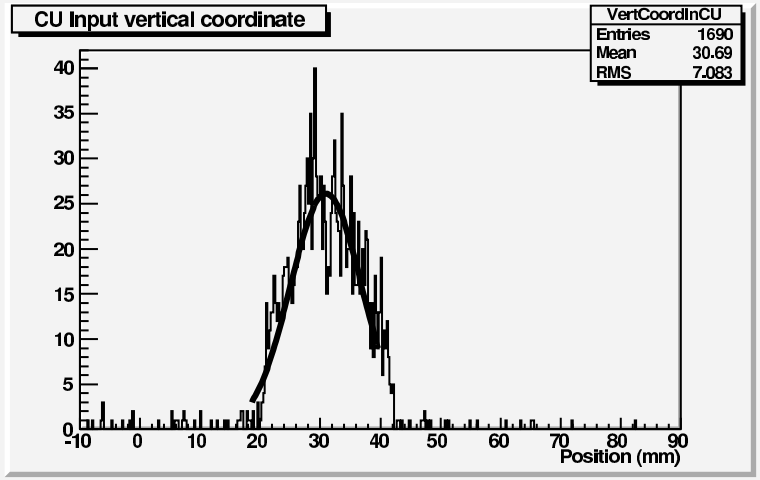

CU Input horizontal angle
HorAngleInCU
Entries 619
Mean 0
RMS 0
Angle (rad)

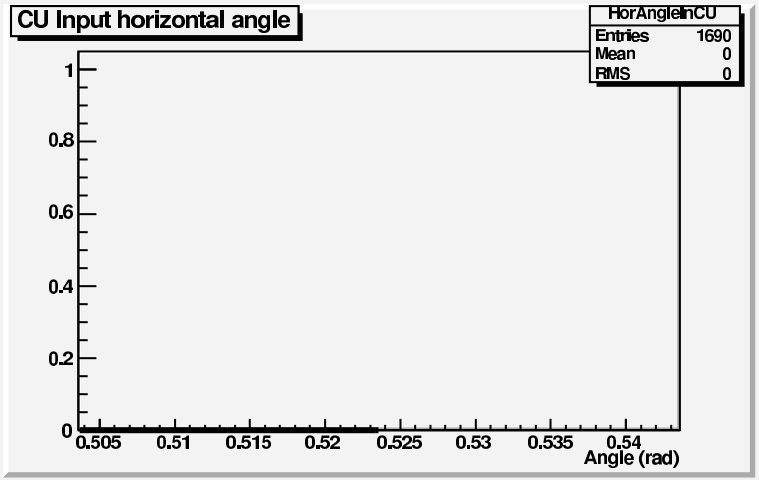

CU Input vertical angle
VertAngleInCU
Entries 619
Mean 0.004479
RMS 0.002943
Angle (rad)

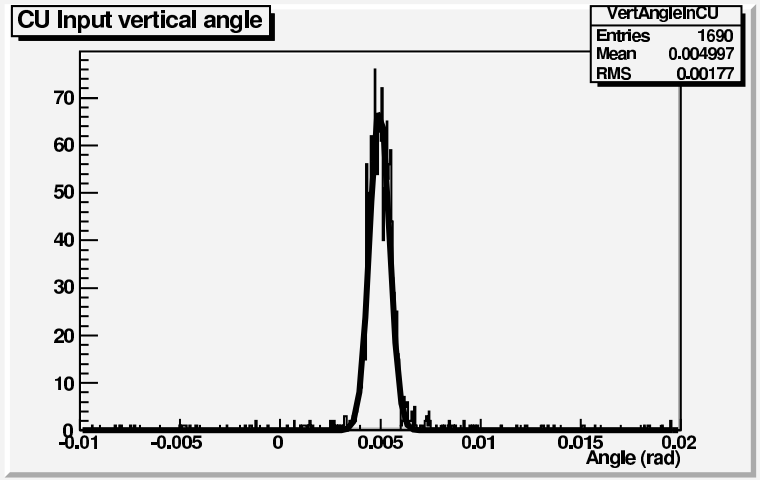

CU Input Beam Spot
SpotCoordInCU
Entries 619
Mean x 211.5
Mean y 32.89
RMS x 35.33
RMS y 3.347
Vertical Position (mm)
Horizontal Position (mm)

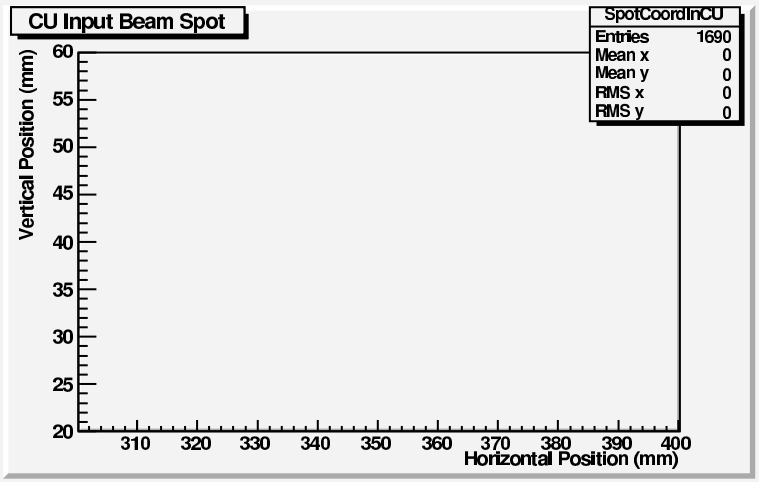

CU Input Beam Spot
SpotAngleInCU
Entries 619
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

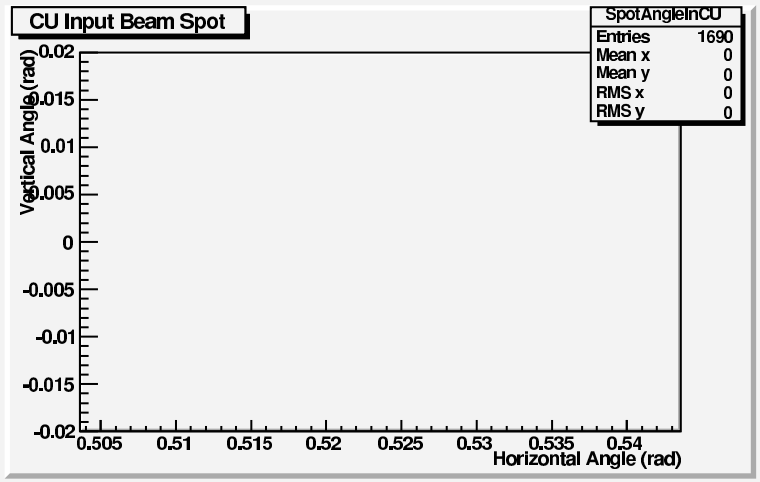

CU Input Horizontal coordinate
HorCoordInCU
Entries 1690
Mean 327.2
RMS 36.4
Position (mm)

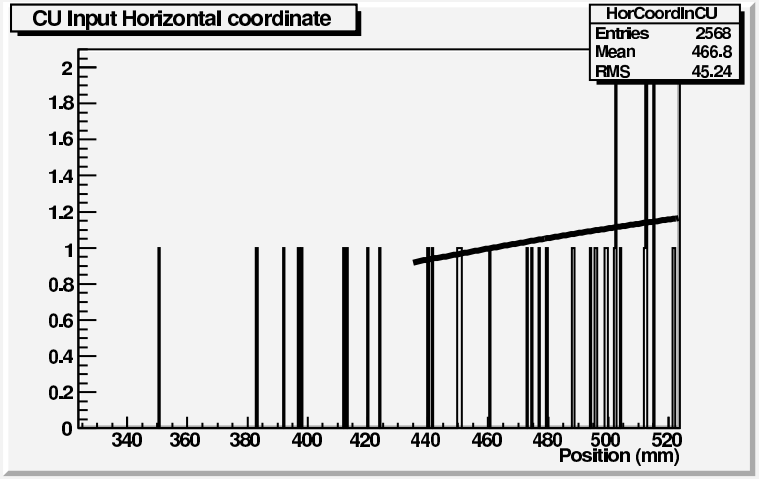

CU Input vertical coordinate
VertCoordInCU
Entries 1690
Mean 30.69
RMS 7.083
Position (mm)

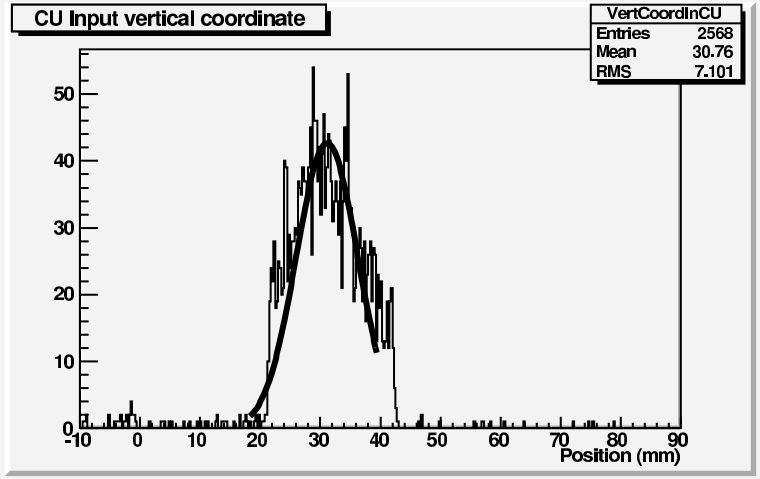

CU Input horizontal angle
HorAngleInCU
Entries 1690
Mean 0
RMS 0
Angle (rad)

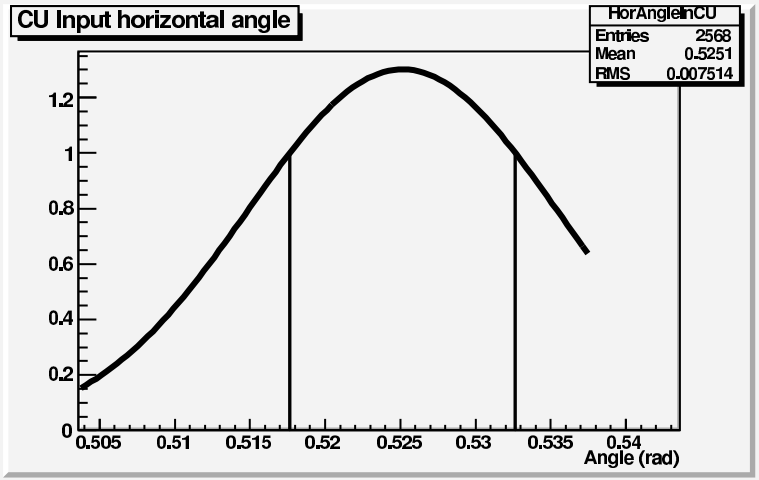

CU Input vertical angle
VertAngleInCU
Entries 1690
Mean 0.004997
RMS 0.00177
Angle (rad)

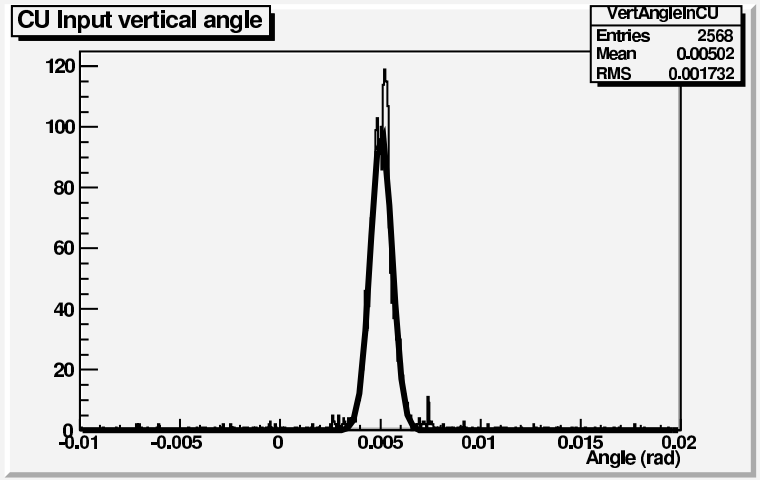

CU Input Beam Spot
SpotCoordInCU
Entries 1690
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Position (mm)
Horizontal Position (mm)

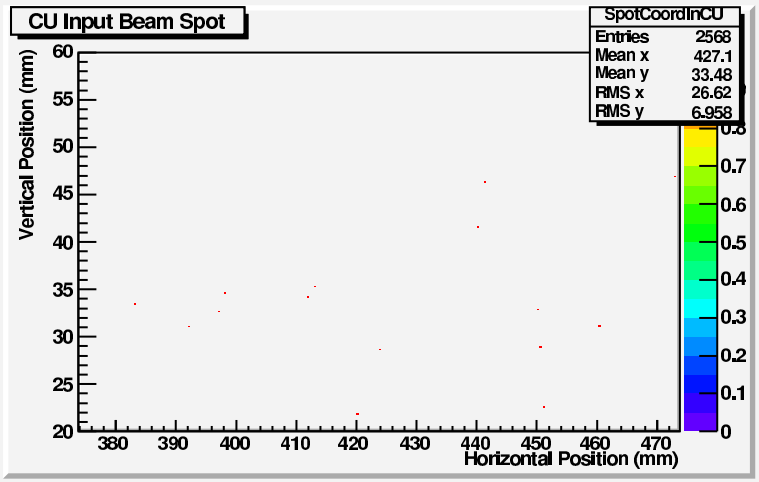

CU Input Beam Spot
SpotAngleInCU
Entries 1690
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

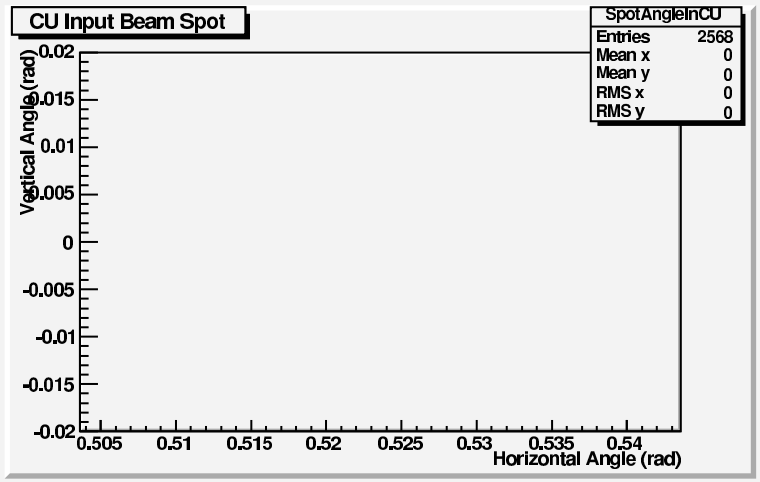

CU Input Horizontal coordinate
HorCoordInCU
Entries 2568
Mean 466.8
RMS 45.24
Position (mm)

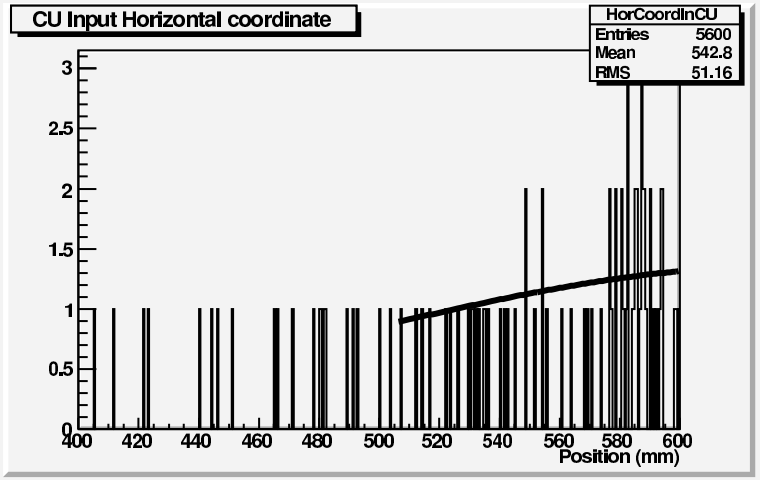

CU Input vertical coordinate
VertCoordInCU
Entries 2568
Mean 30.76
RMS 7.101
Position (mm)

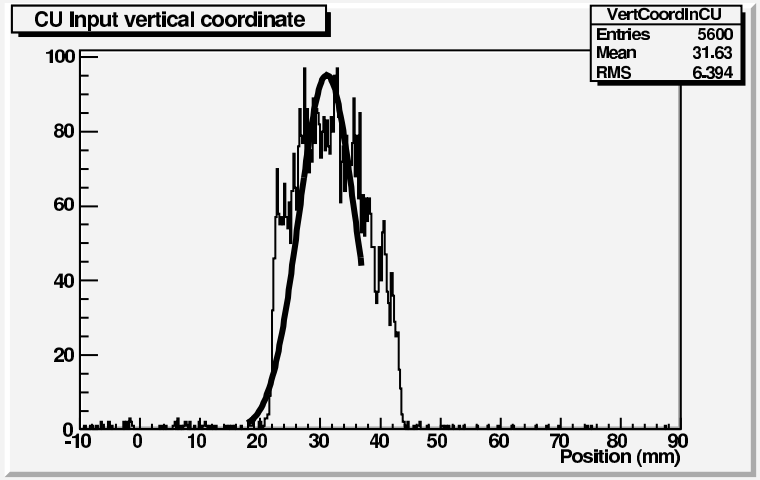

CU Input horizontal angle
HorAngleInCU
Entries 2568
Mean 0.5251
RMS 0.007514
Angle (rad)

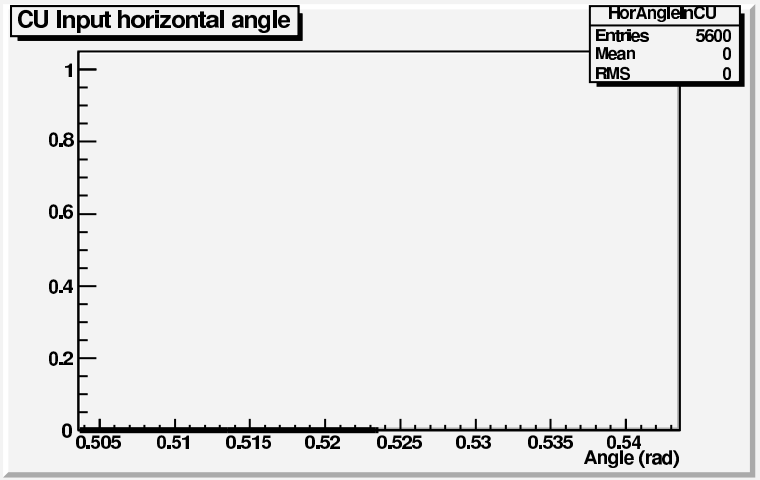

CU Input vertical angle
VertAngleInCU
Entries 2568
Mean 0.00502
RMS 0.001732
Angle (rad)

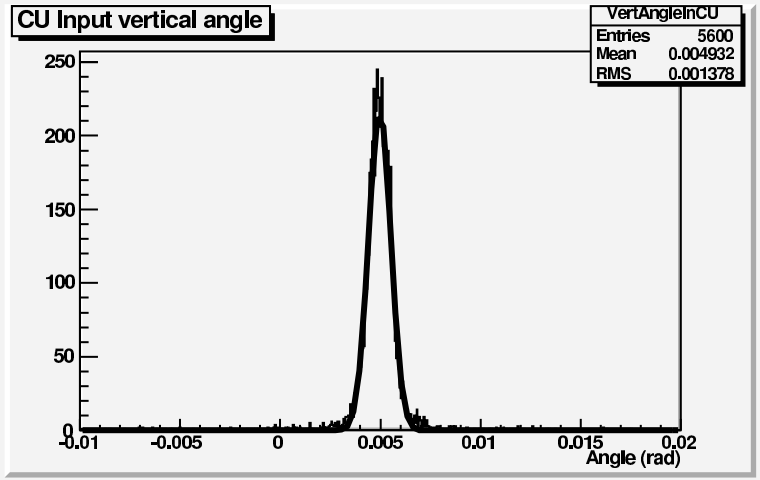

CU Input Beam Spot
SpotCoordInCU
Entries 2568
Mean x 427.1
Mean y 33.48
RMS x 26.62
RMS y 6.958
Vertical Position (mm)
Horizontal Position (mm)

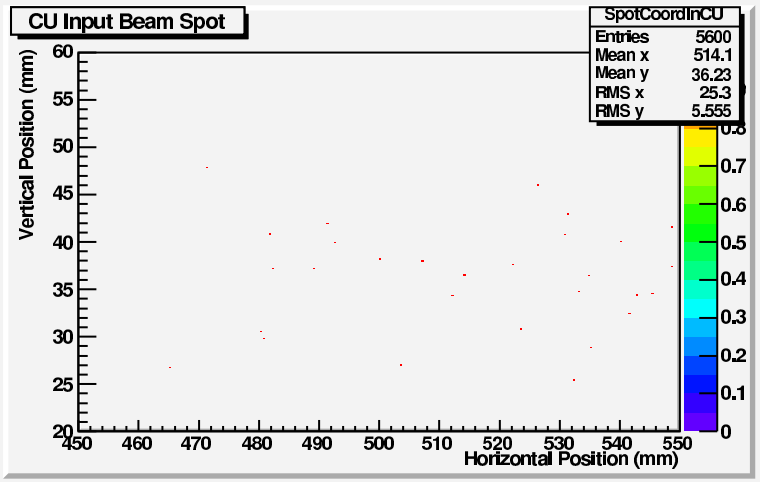

CU Input Beam Spot
SpotAngleInCU
Entries 2568
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

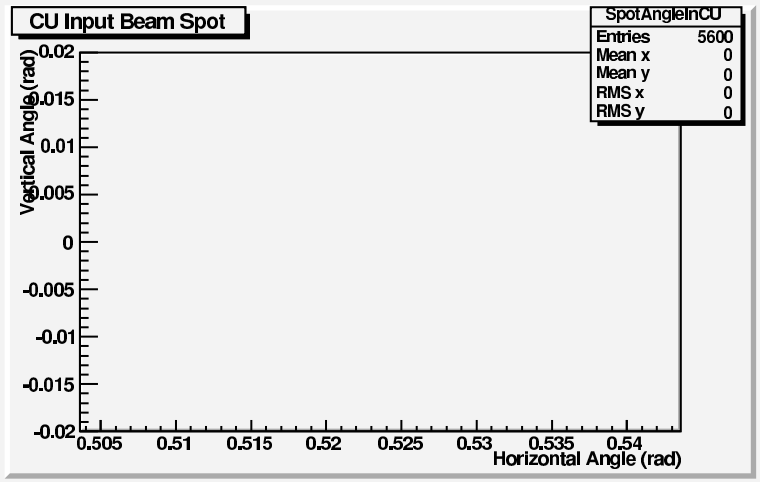

CU Input Horizontal coordinate
HorCoordInCU
Entries 5600
Mean 542.8
RMS 51.16
Position (mm)

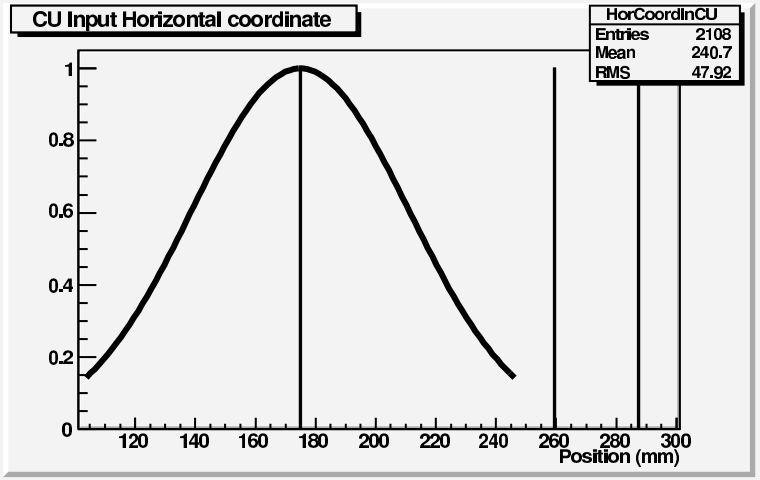

CU Input vertical coordinate
VertCoordInCU
Entries 5600
Mean 31.63
RMS 6.394
Position (mm)

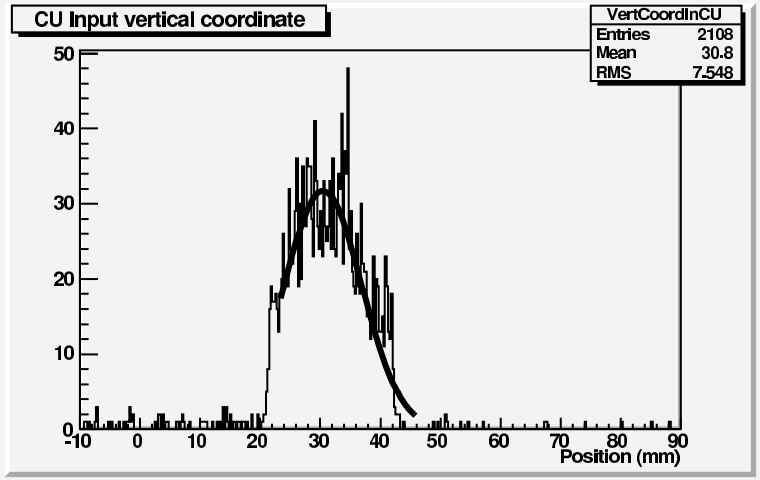

CU Input horizontal angle
HorAngleInCU
Entries 5600
Mean 0
RMS 0
Angle (rad)

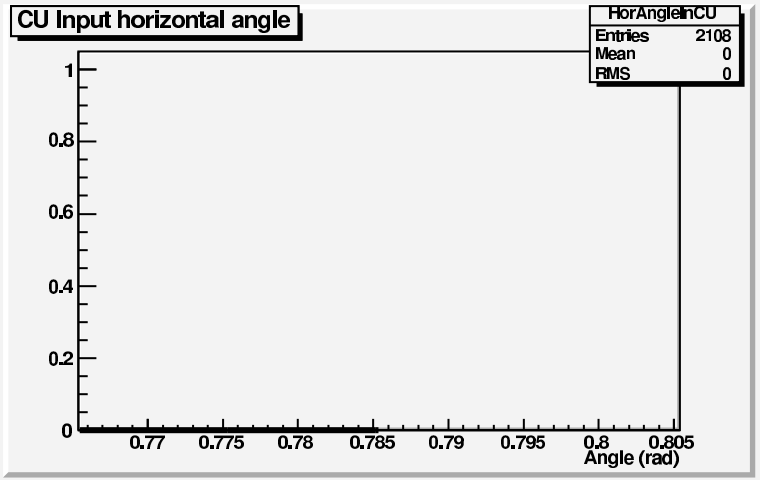

CU Input vertical angle
VertAngleInCU
Entries 5600
Mean 0.004932
RMS 0.001378
Angle (rad)

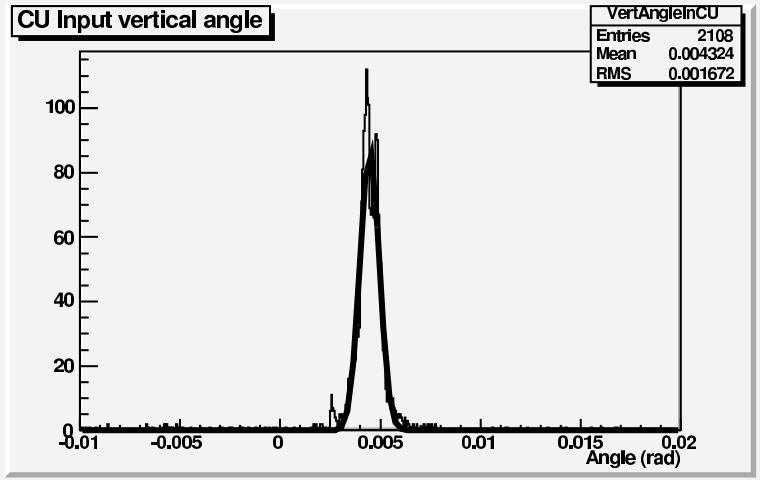

CU Input Beam Spot
SpotCoordInCU
Entries 5600
Mean x 514.1
Mean y 36.23
RMS x 25.3
RMS y 5.555
Vertical Position (mm)
Horizontal Position (mm)

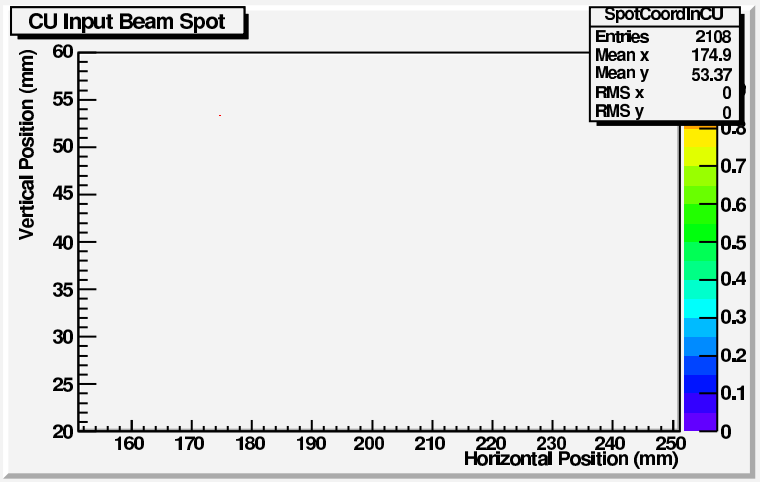

CU Input Beam Spot
SpotAngleInCU
Entries 5600
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

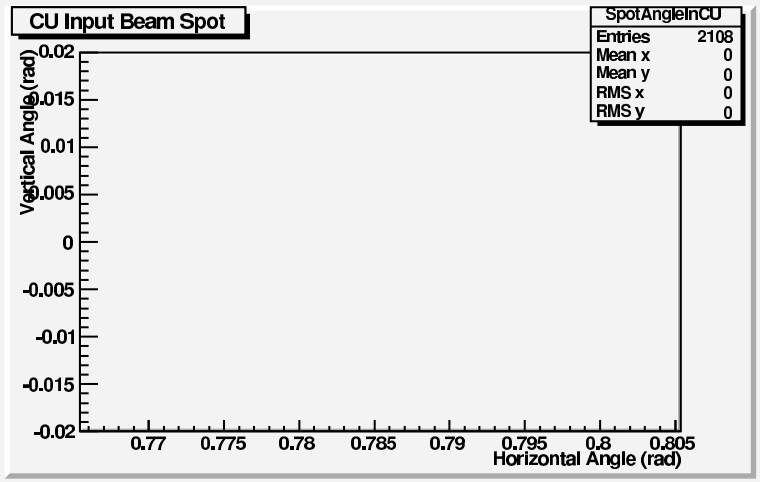

CU Input Horizontal coordinate
HorCoordInCU
Entries 2108
Mean 240.7
RMS 47.92
Position (mm)

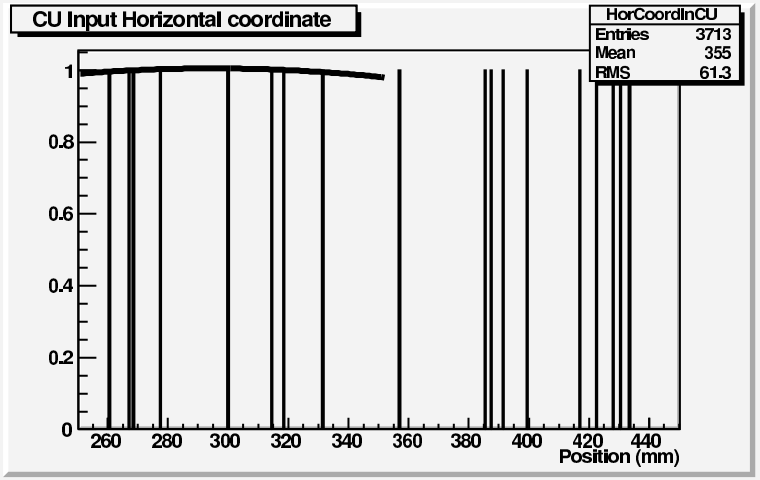

CU Input vertical coordinate
VertCoordInCU
Entries 2108
Mean 30.8
RMS 7.548
Position (mm)

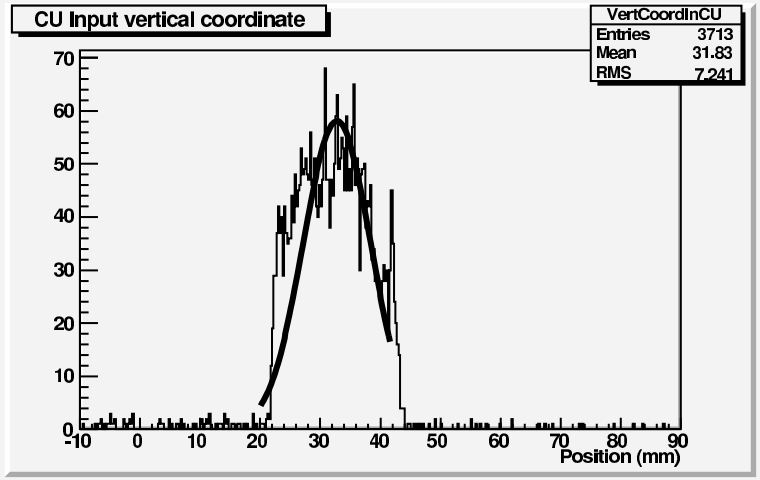

CU Input horizontal angle
HorAngleInCU
Entries 2108
Mean 0
RMS 0
Angle (rad)

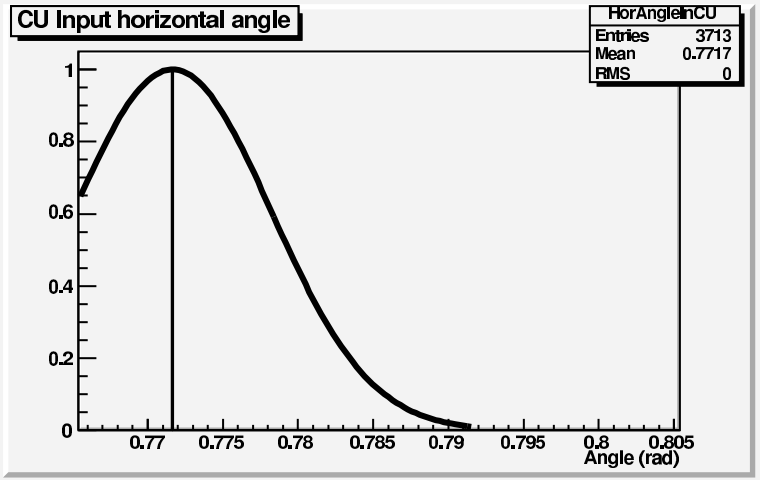

CU Input vertical angle
VertAngleInCU
Entries 2108
Mean 0.004324
RMS 0.001672
Angle (rad)

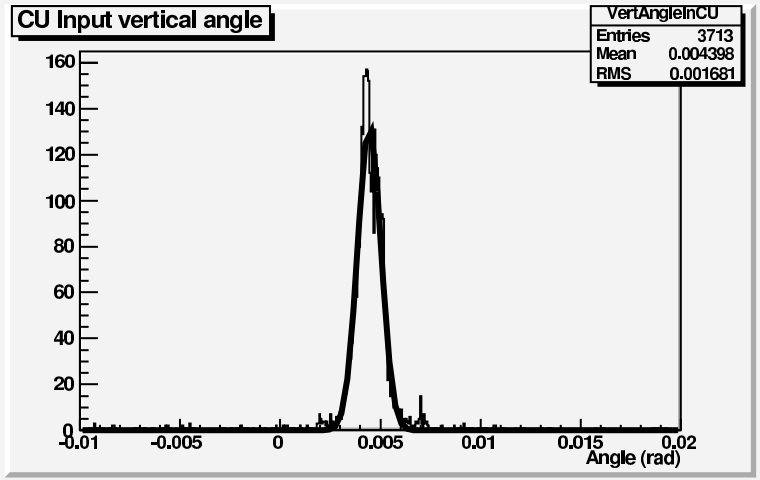

CU Input Beam Spot
SpotCoordInCU
Entries 2108
Mean x 174.9
Mean y 53.37
RMS x 0
RMS y 0
Vertical Position (mm)
Horizontal Position (mm)

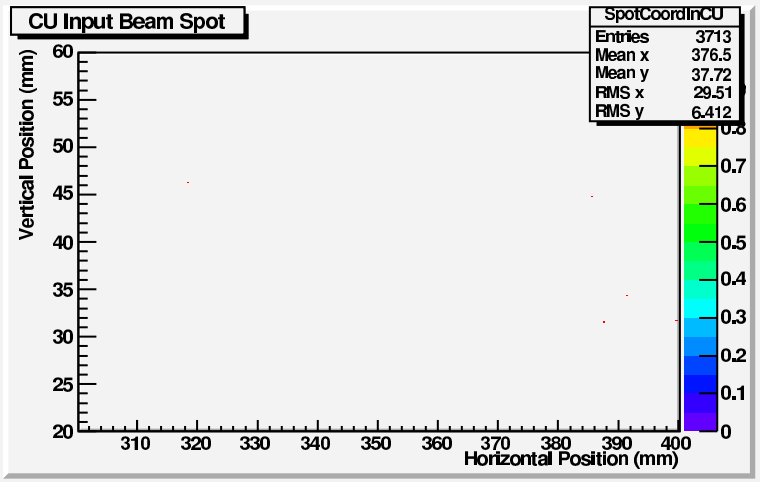

CU Input Beam Spot
SpotAngleInCU
Entries 2108
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

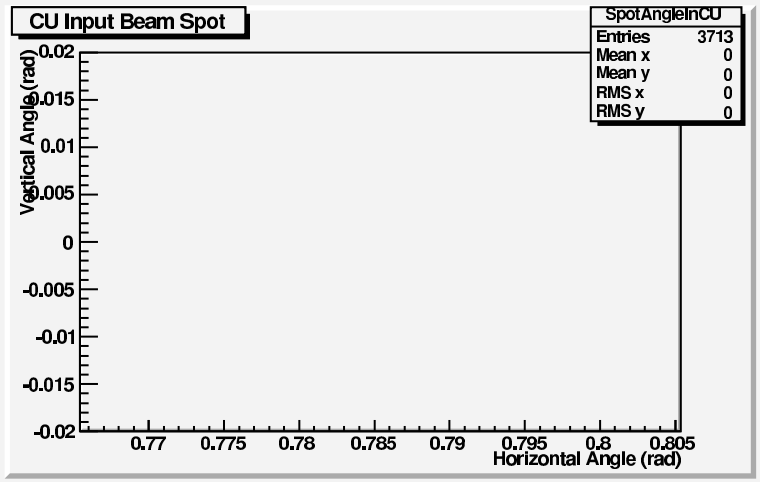

CU Input Horizontal coordinate
HorCoordInCU
Entries 3713
Mean 355
RMS 61.3
Position (mm)

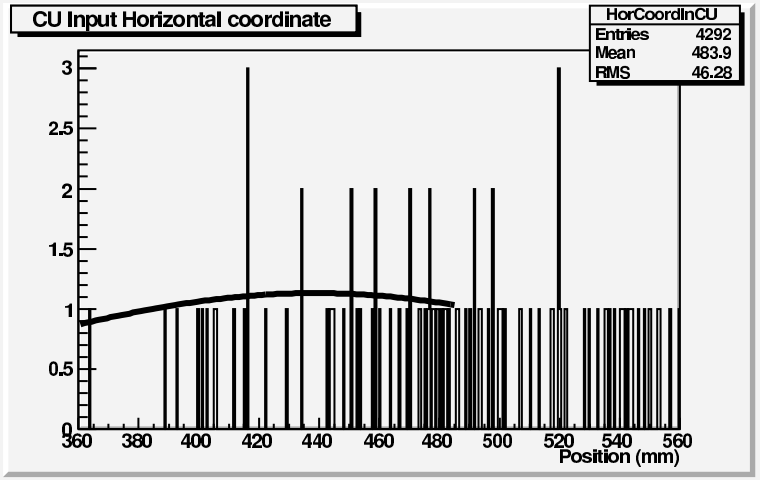

CU Input vertical coordinate
VertCoordInCU
Entries 3713
Mean 31.83
RMS 7.241
Position (mm)

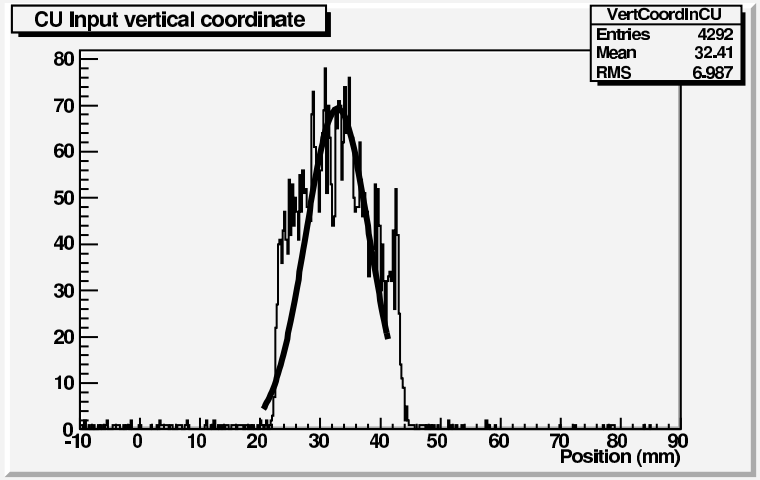

CU Input horizontal angle
HorAngleInCU
Entries 3713
Mean 0.7717
RMS 0
Angle (rad)

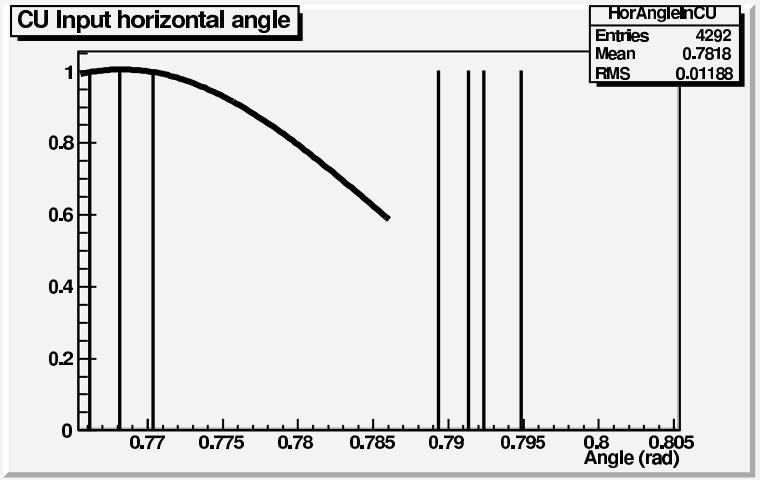

CU Input vertical angle
VertAngleInCU
Entries 3713
Mean 0.004398
RMS 0.001681
Angle (rad)

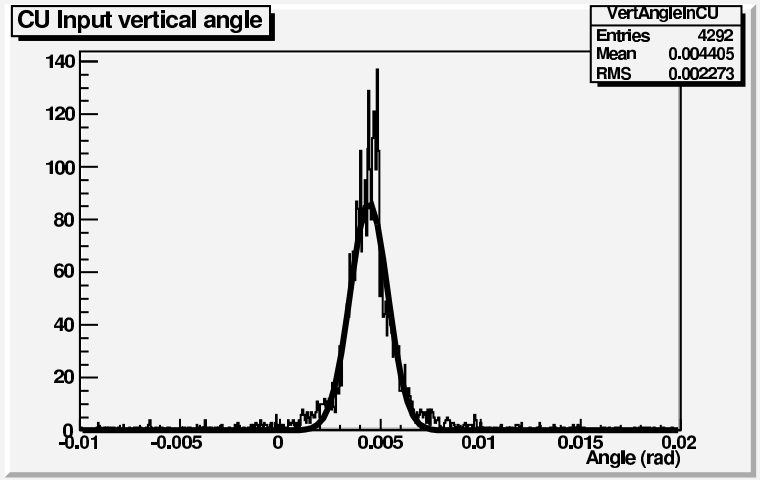

CU Input Beam Spot
SpotCoordInCU
Entries 3713
Mean x 376.5
Mean y 37.72
RMS x 29.51
RMS y 6.412
Vertical Position (mm)
Horizontal Position (mm)

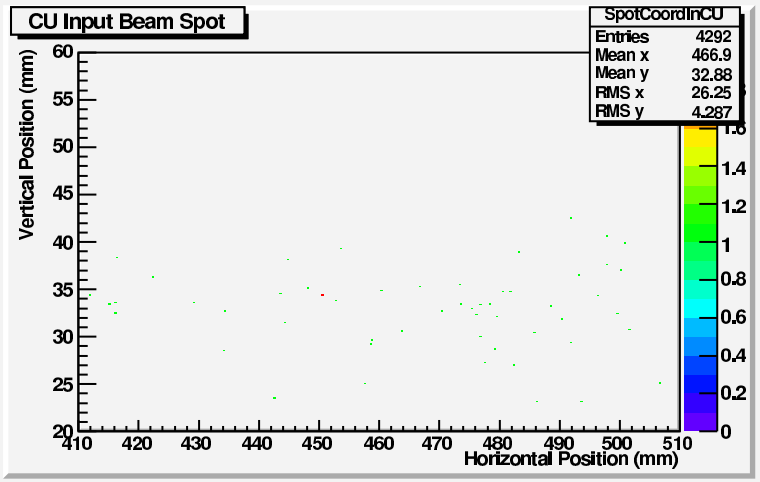

CU Input Beam Spot
SpotAngleInCU
Entries 3713
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

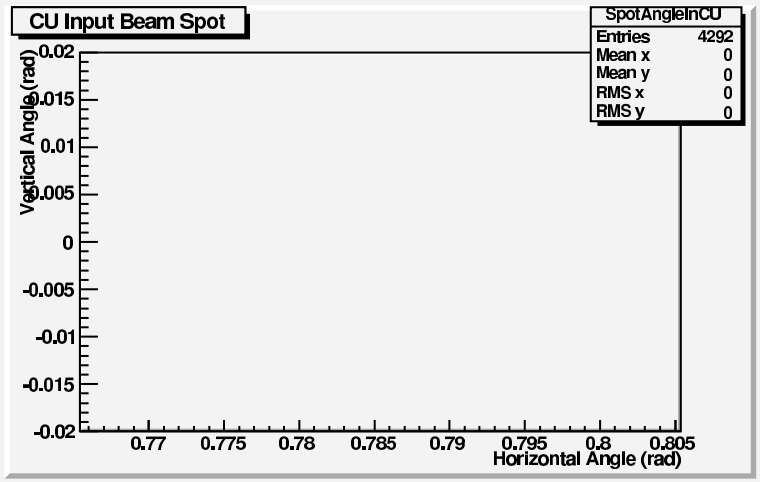

CU Input Horizontal coordinate
HorCoordInCU
Entries 4292
Mean 483.9
RMS 46.28
Position (mm)

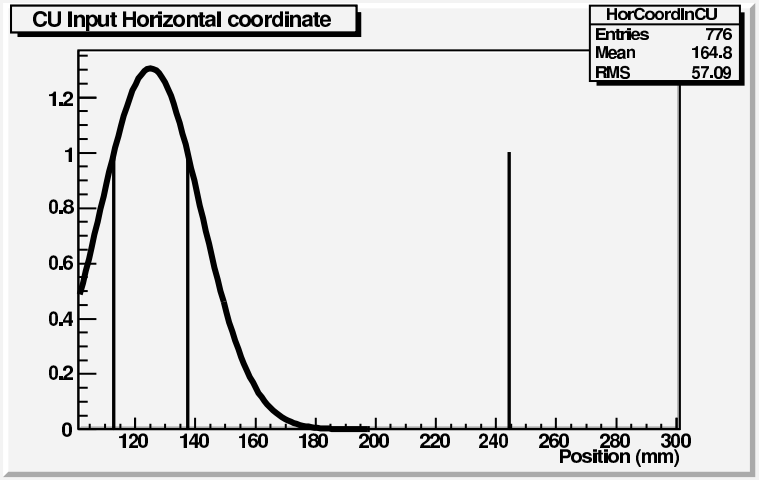

CU Input vertical coordinate
VertCoordInCU
Entries 4292
Mean 32.41
RMS 6.987
Position (mm)

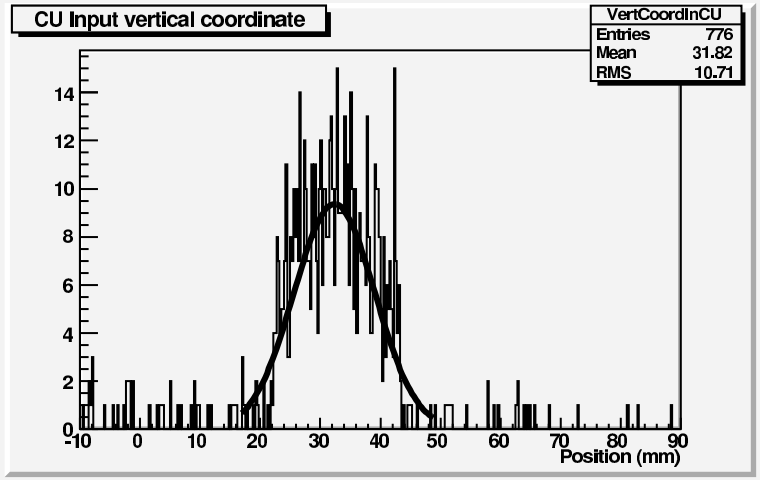

CU Input horizontal angle
HorAngleInCU
Entries 4292
Mean 0.7818
RMS 0.01188
Angle (rad)

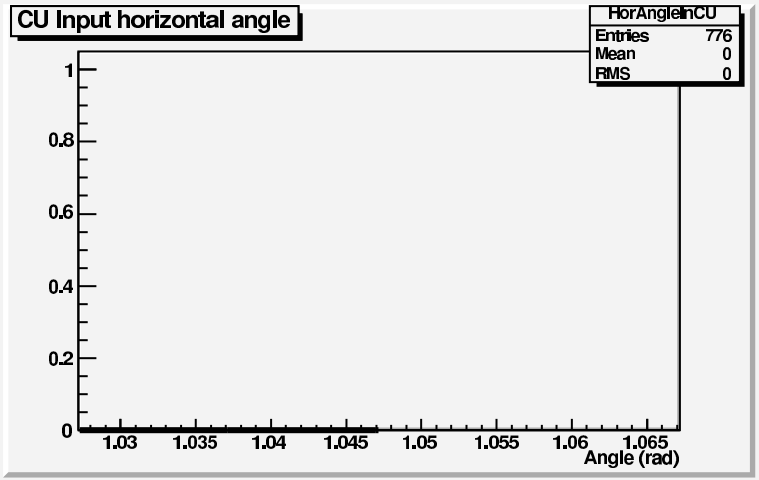

CU Input vertical angle
VertAngleInCU
Entries 4292
Mean 0.004405
RMS 0.002273
Angle (rad)

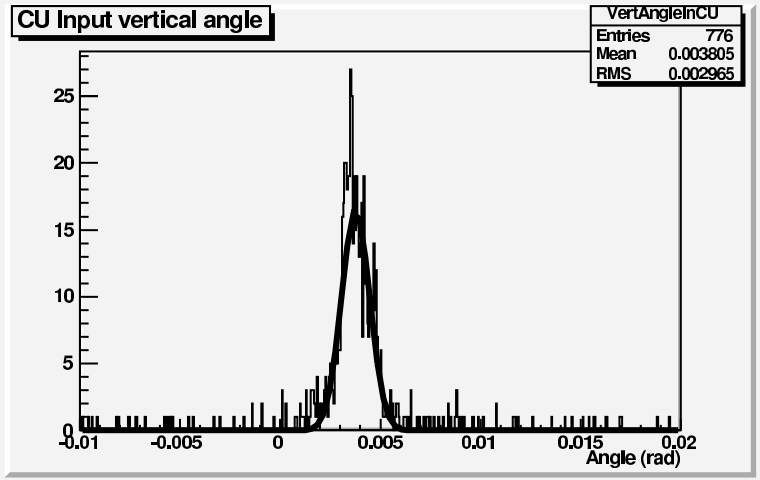

CU Input Beam Spot
SpotCoordInCU
Entries 4292
Mean x 466.9
Mean y 32.88
RMS x 26.25
RMS y 4.287
Vertical Position (mm)
Horizontal Position (mm)

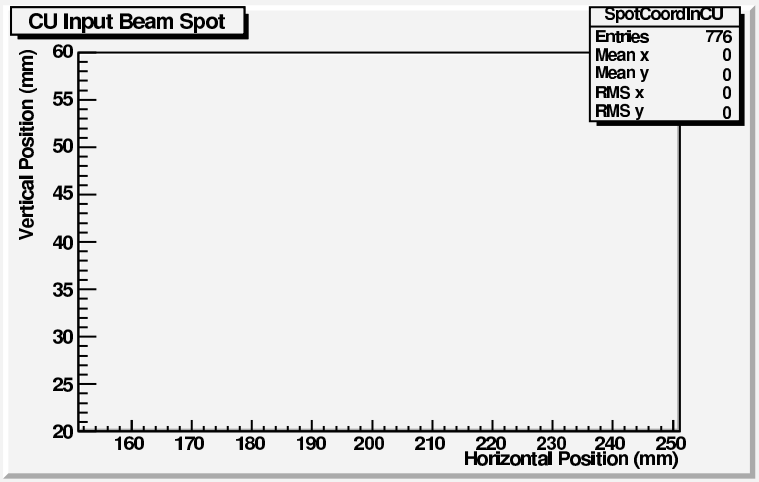

CU Input Beam Spot
SpotAngleInCU
Entries 4292
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

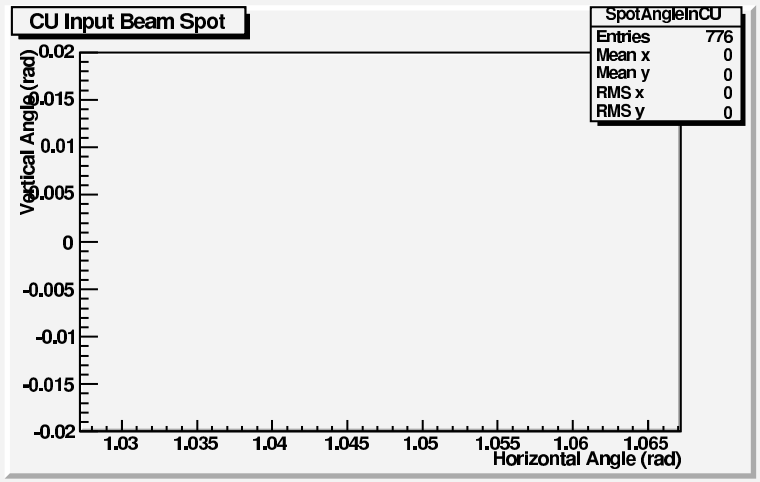

CU Input Horizontal coordinate
HorCoordInCU
Entries 776
Mean 164.8
RMS 57.09
Position (mm)

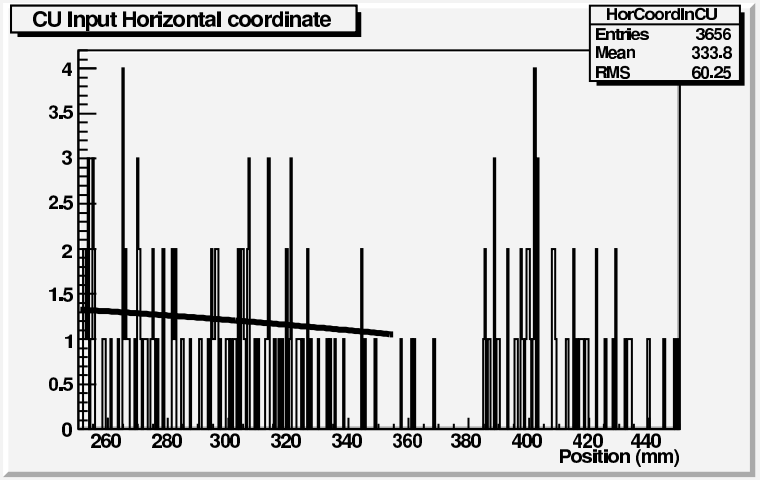

CU Input vertical coordinate
VertCoordInCU
Entries 776
Mean 31.82
RMS 10.71
Position (mm)

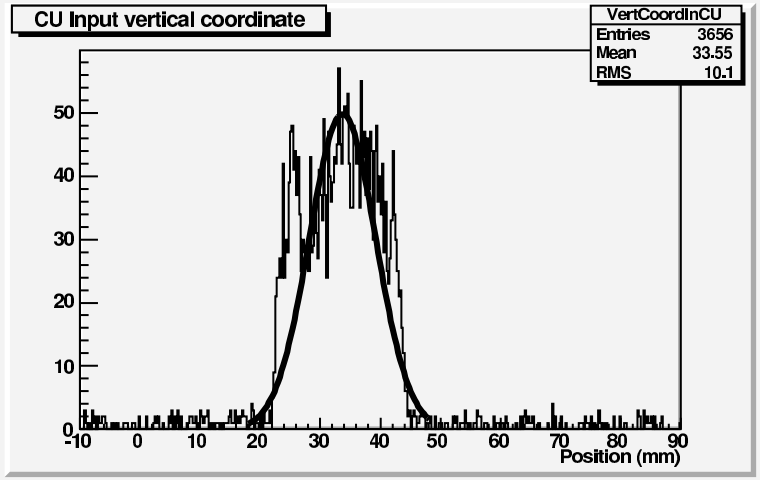

CU Input horizontal angle
HorAngleInCU
Entries 776
Mean 0
RMS 0
Angle (rad)

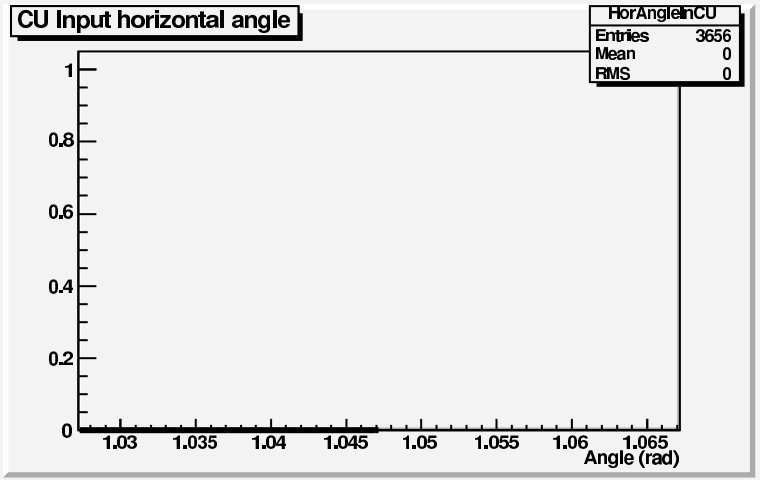

CU Input vertical angle
VertAngleInCU
Entries 776
Mean 0.003805
RMS 0.002965
Angle (rad)

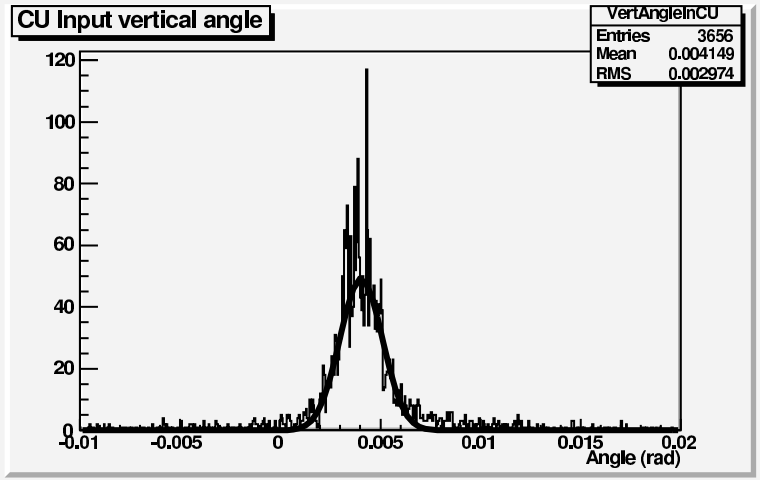

CU Input Beam Spot
SpotCoordInCU
Entries 776
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Position (mm)
Horizontal Position (mm)

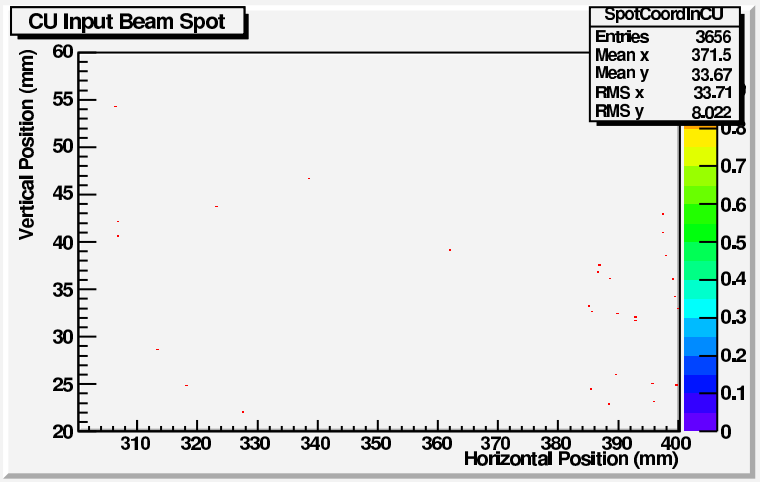

CU Input Beam Spot
SpotAngleInCU
Entries 776
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

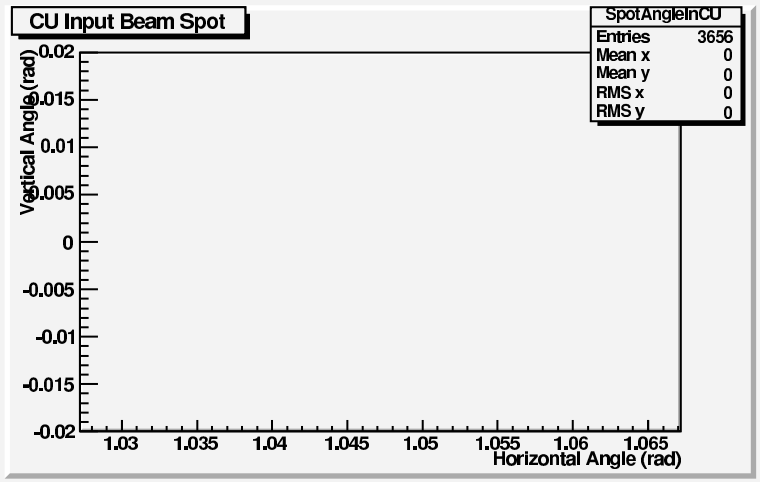

CU Input Horizontal coordinate
HorCoordInCU
Entries 3656
Mean 333.8
RMS 60.25
Position (mm)

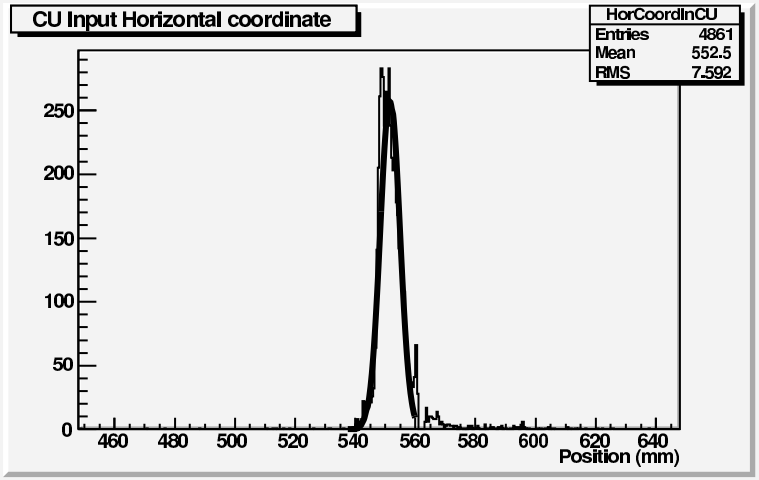

CU Input vertical coordinate
VertCoordInCU
Entries 3656
Mean 33.55
RMS 10.1
Position (mm)

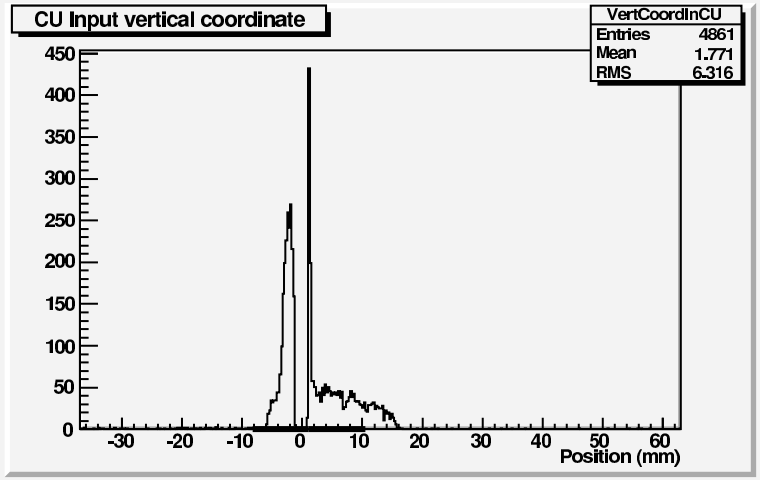

CU Input horizontal angle
HorAngleInCU
Entries 3656
Mean 0
RMS 0
Angle (rad)

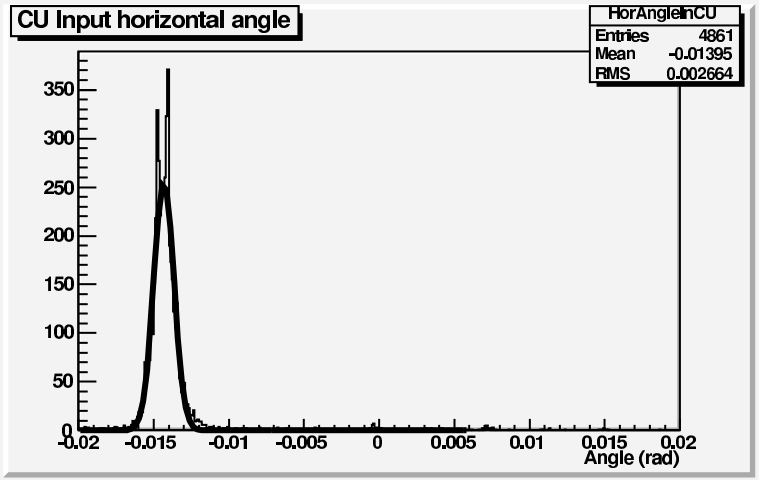

CU Input vertical angle
VertAngleInCU
Entries 3656
Mean 0.004149
RMS 0.002974
Angle (rad)

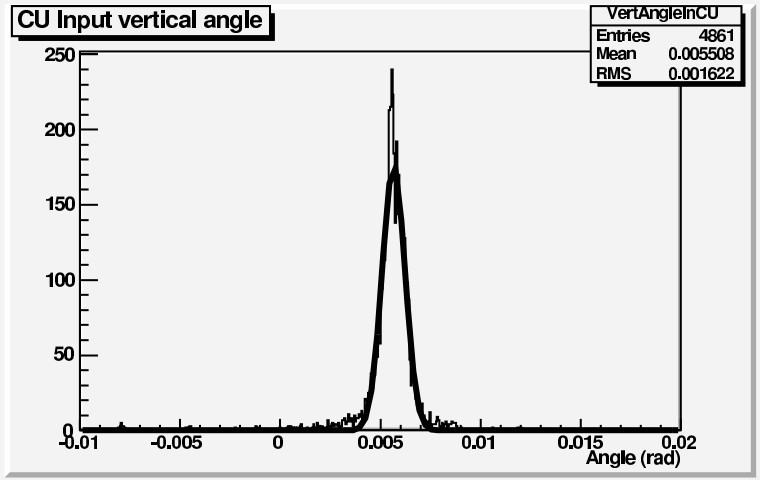

CU Input Beam Spot
SpotCoordInCU
Entries 3656
Mean x 371.5
Mean y 33.67
RMS x 33.71
RMS y 8.022
Vertical Position (mm)
Horizontal Position (mm)

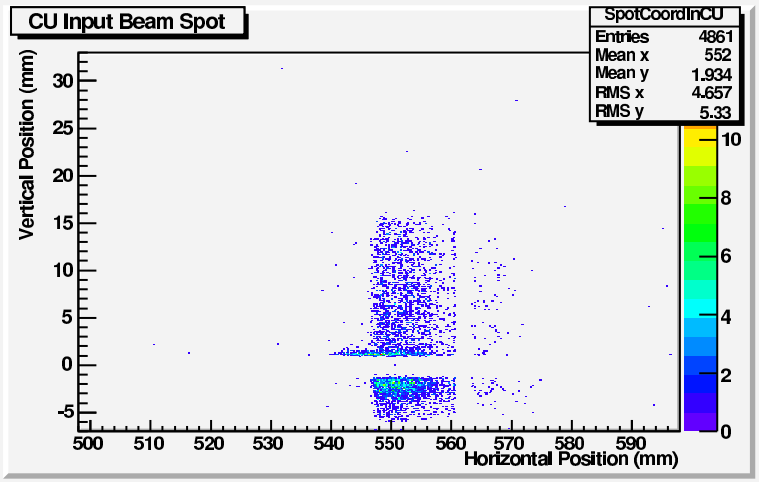

CU Input Beam Spot
SpotAngleInCU
Entries 3656
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

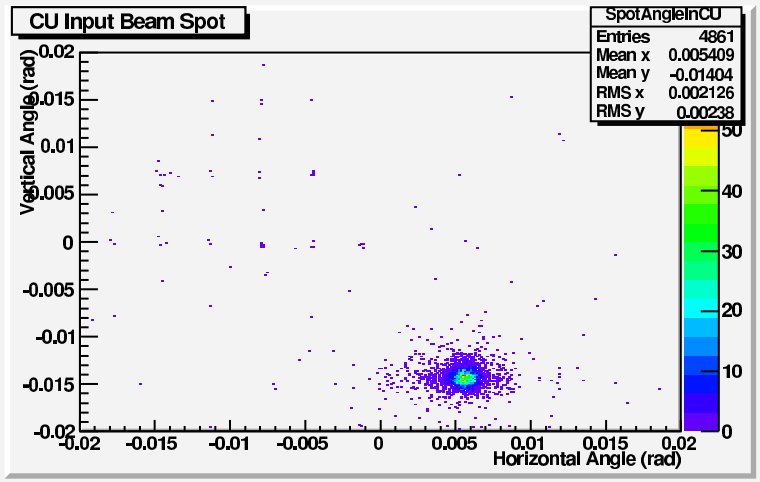

CU Input Horizontal coordinate
HorCoordInCU
Entries 4861
Mean 552.5
RMS 7.592
Position (mm)

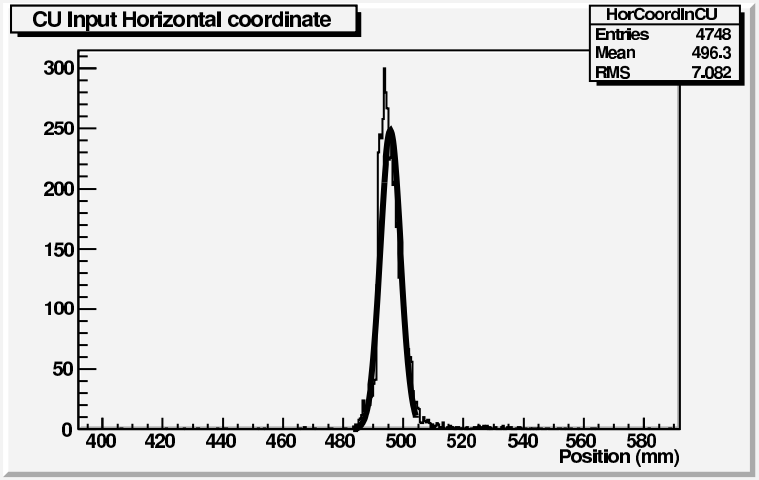

CU Input vertical coordinate
VertCoordInCU
Entries 4861
Mean 1.771
RMS 6.316
Position (mm)

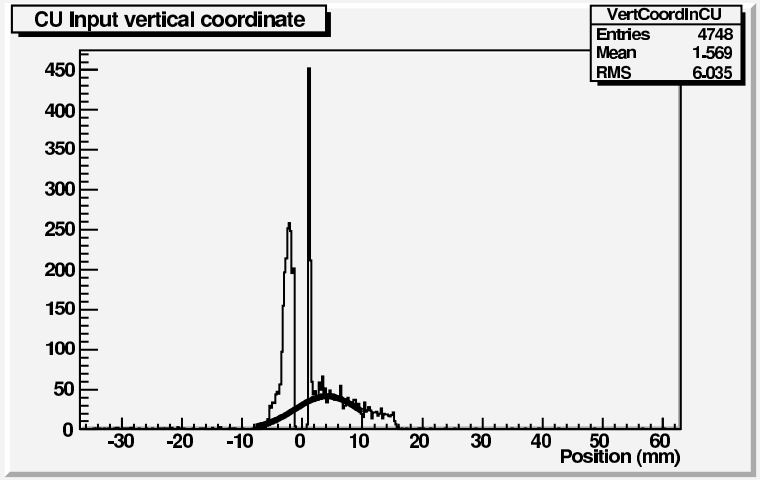

CU Input horizontal angle
HorAngleInCU
Entries 4861
Mean -0.01395
RMS 0.002664
Angle (rad)

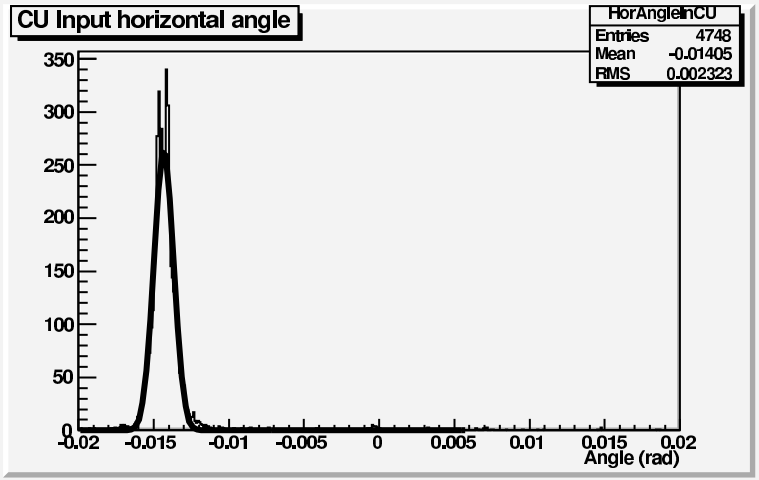

CU Input vertical angle
VertAngleInCU
Entries 4861
Mean 0.005508
RMS 0.001622
Angle (rad)

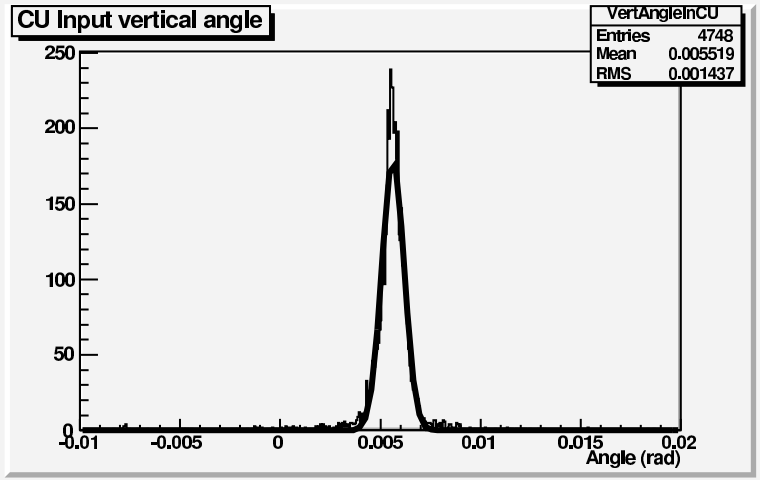

CU Input Beam Spot
SpotCoordInCU
Entries 4861
Mean x 552
Mean y 1.934
RMS x 4.657
RMS y 5.33
Vertical Position (mm)
Horizontal Position (mm)

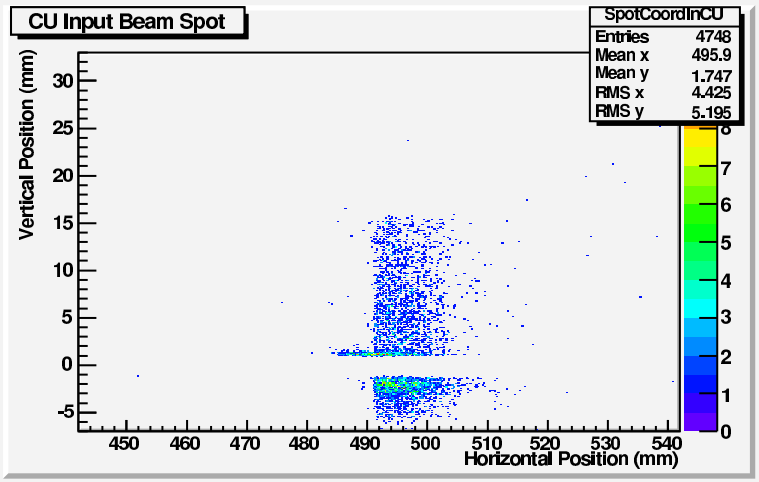

CU Input Beam Spot
SpotAngleInCU
Entries 4861
Mean x 0.005409
Mean y -0.01404
RMS x 0.002126
RMS y 0.00238
Vertical Angle (rad)
Horizontal Angle (rad)

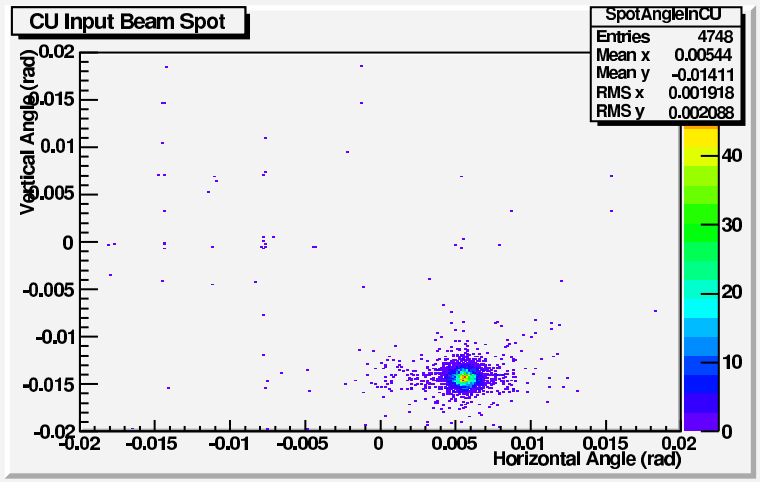

CU Input Horizontal coordinate
HorCoordInCU
Entries 4748
Mean 496.3
RMS 7.082
Position (mm)

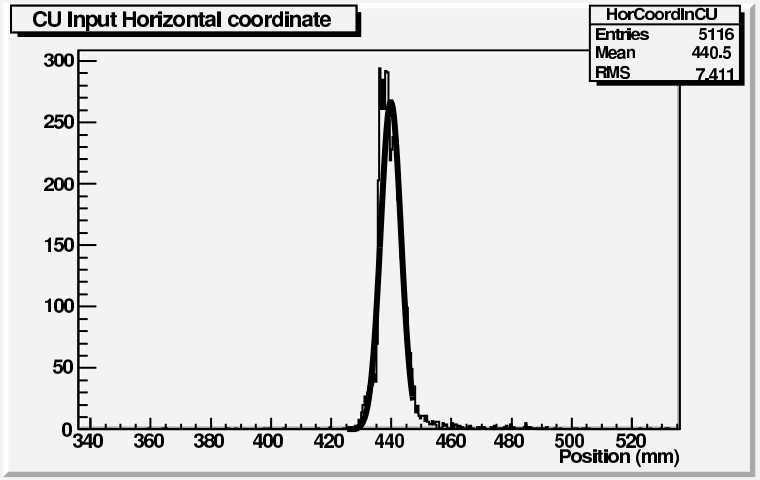

CU Input vertical coordinate
VertCoordInCU
Entries 4748
Mean 1.569
RMS 6.035
Position (mm)

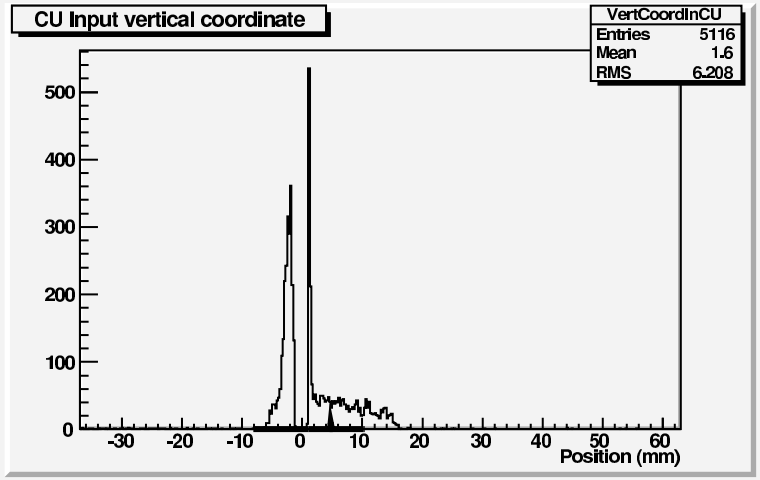

CU Input horizontal angle
HorAngleInCU
Entries 4748
Mean -0.01405
RMS 0.002323
Angle (rad)

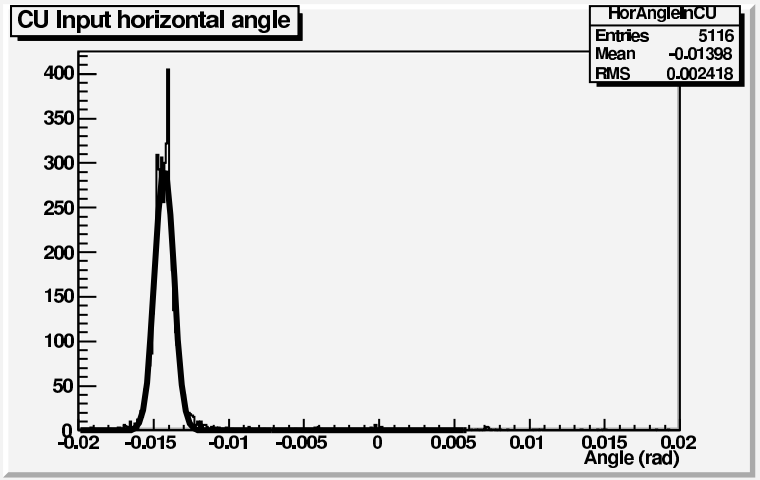

CU Input vertical angle
VertAngleInCU
Entries 4748
Mean 0.005519
RMS 0.001437
Angle (rad)

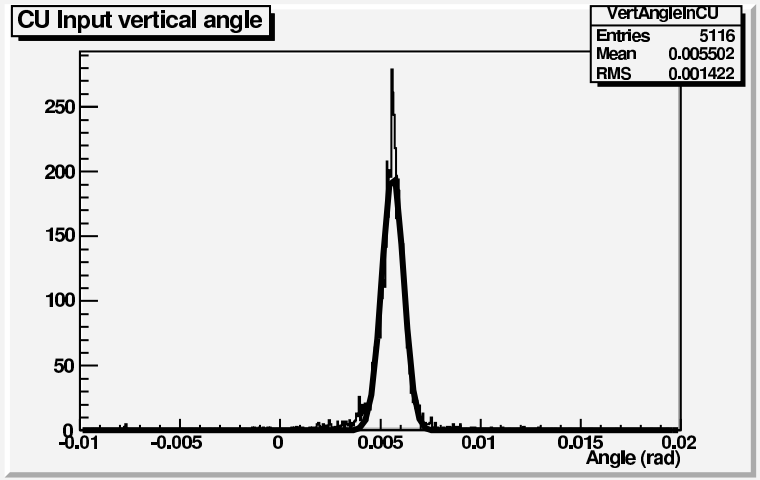

CU Input Beam Spot
SpotCoordInCU
Entries 4748
Mean x 495.9
Mean y 1.747
RMS x 4.425
RMS y 5.195
Vertical Position (mm)
Horizontal Position (mm)

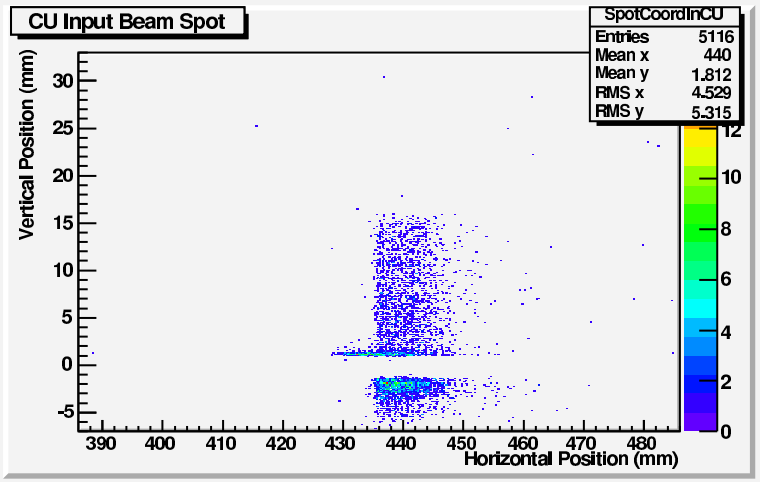

CU Input Beam Spot
SpotAngleInCU
Entries 4748
Mean x 0.00544
Mean y -0.01411
RMS x 0.001918
RMS y 0.002088
Vertical Angle (rad)
Horizontal Angle (rad)

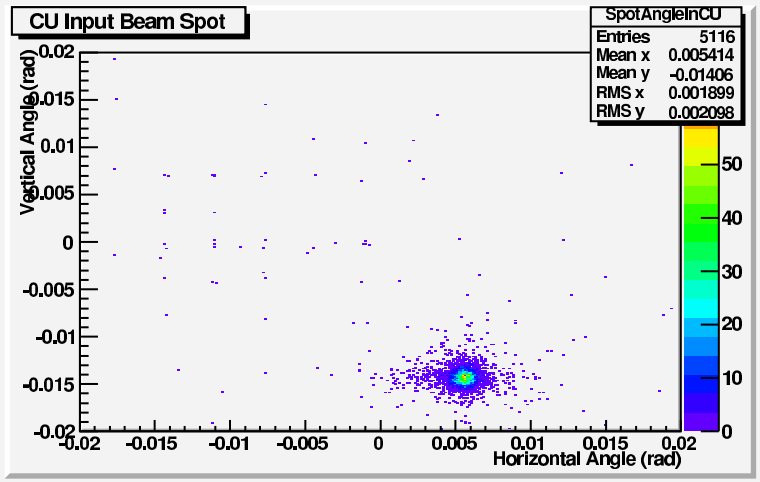

CU Input Horizontal coordinate
HorCoordInCU
Entries 5116
Mean 440.5
RMS 7.411
Position (mm)

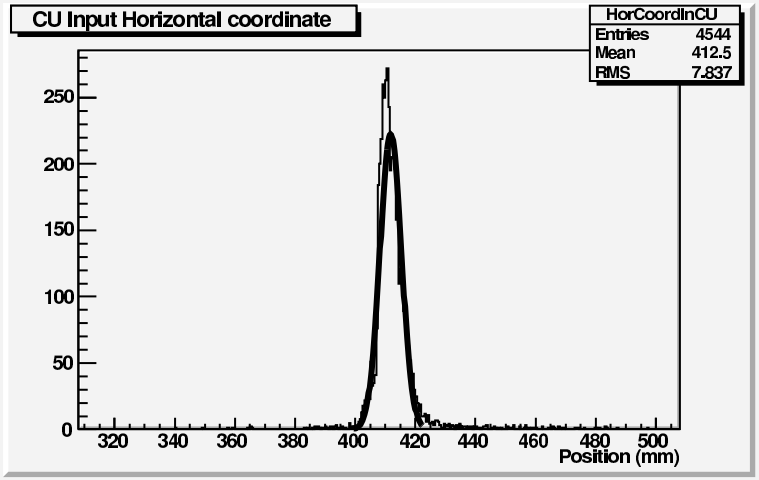

CU Input vertical coordinate
VertCoordInCU
Entries 5116
Mean 1.6
RMS 6.208
Position (mm)

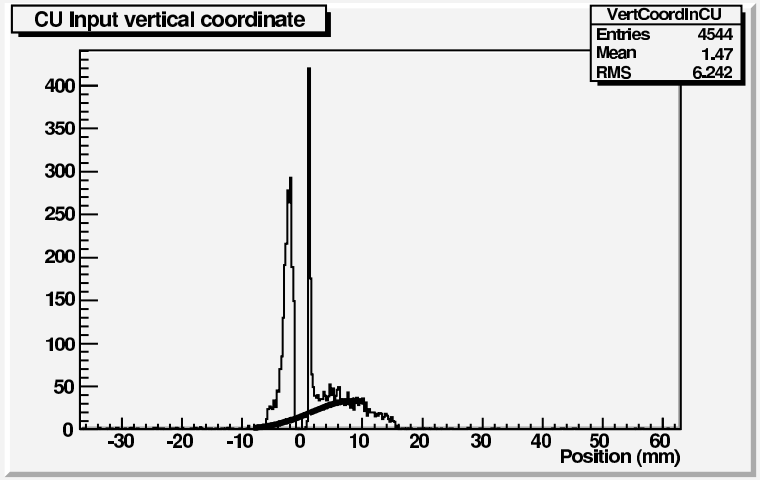

CU Input horizontal angle
HorAngleInCU
Entries 5116
Mean -0.01398
RMS 0.002418
Angle (rad)

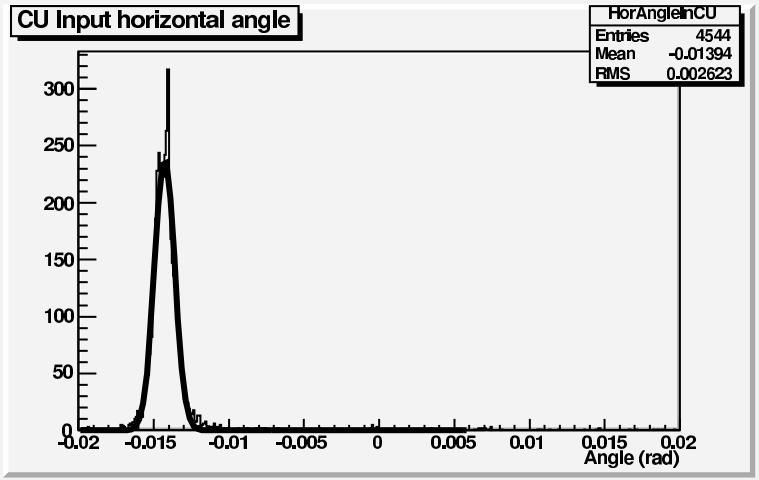

CU Input vertical angle
VertAngleInCU
Entries 5116
Mean 0.005502
RMS 0.001422
Angle (rad)

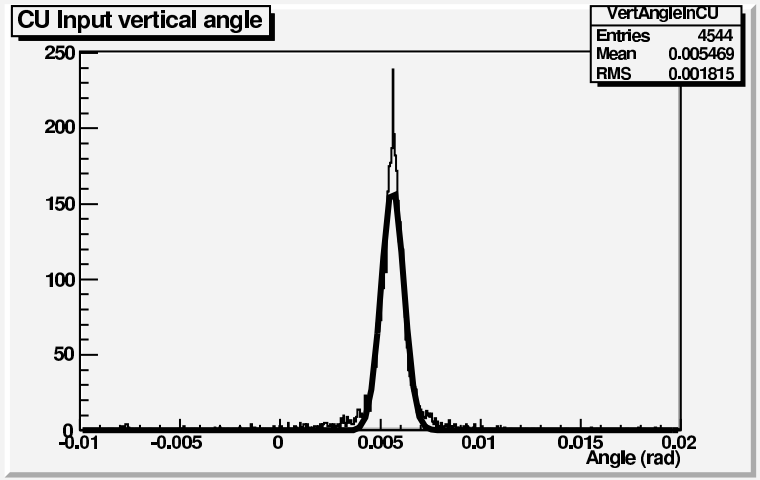

CU Input Beam Spot
SpotCoordInCU
Entries 5116
Mean x 440
Mean y 1.812
RMS x 4.529
RMS y 5.315
Vertical Position (mm)
Horizontal Position (mm)

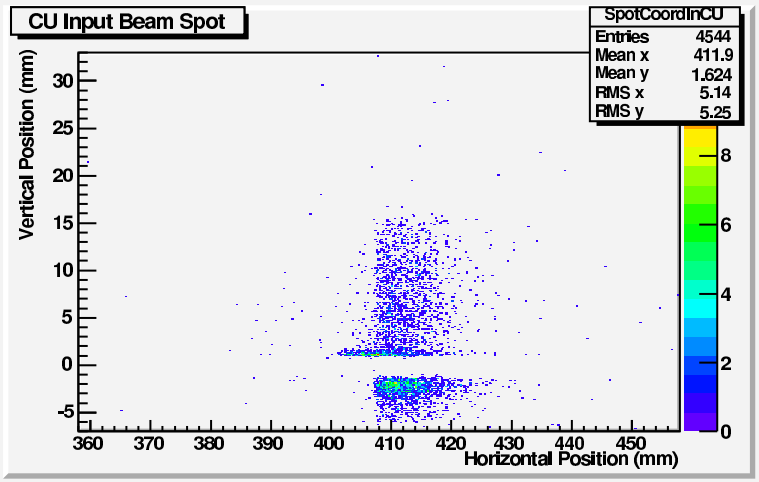

CU Input Beam Spot
SpotAngleInCU
Entries 5116
Mean x 0.005414
Mean y -0.01406
RMS x 0.001899
RMS y 0.002098
Vertical Angle (rad)
Horizontal Angle (rad)

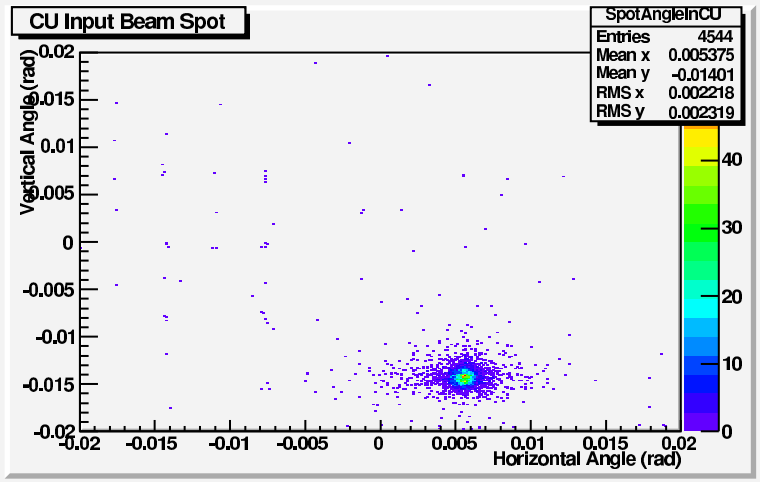

CU Input Horizontal coordinate
HorCoordInCU
Entries 4544
Mean 412.5
RMS 7.837
Position (mm)

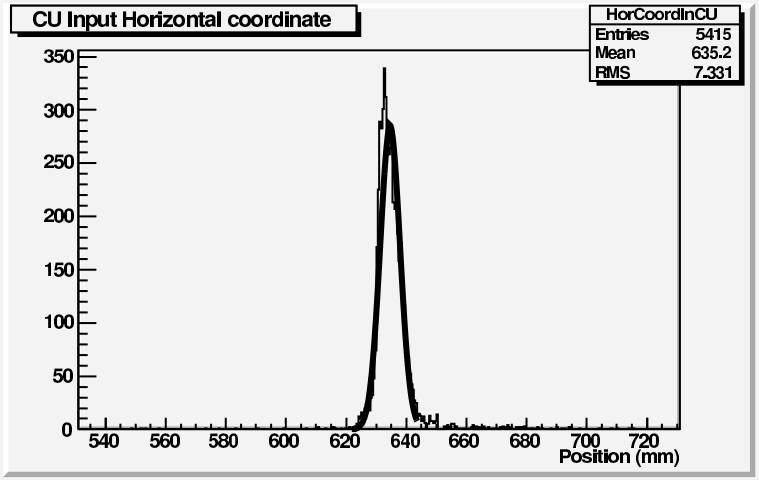

CU Input vertical coordinate
VertCoordInCU
Entries 4544
Mean 1.47
RMS 6.242
Position (mm)

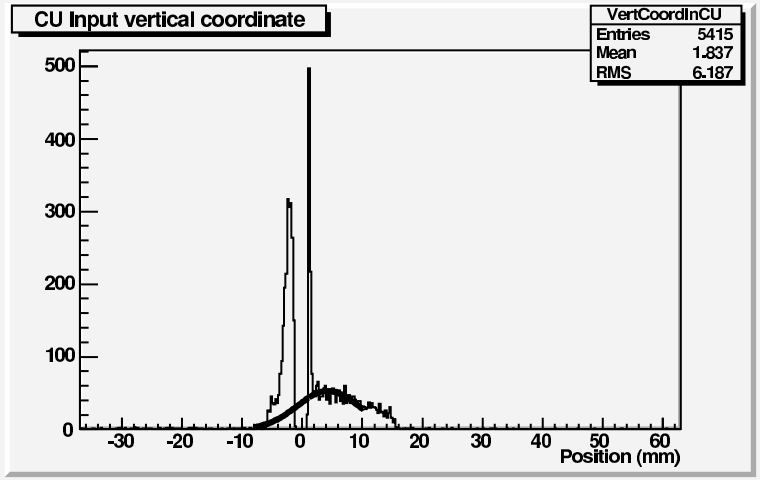

CU Input horizontal angle
HorAngleInCU
Entries 4544
Mean -0.01394
RMS 0.002623
Angle (rad)

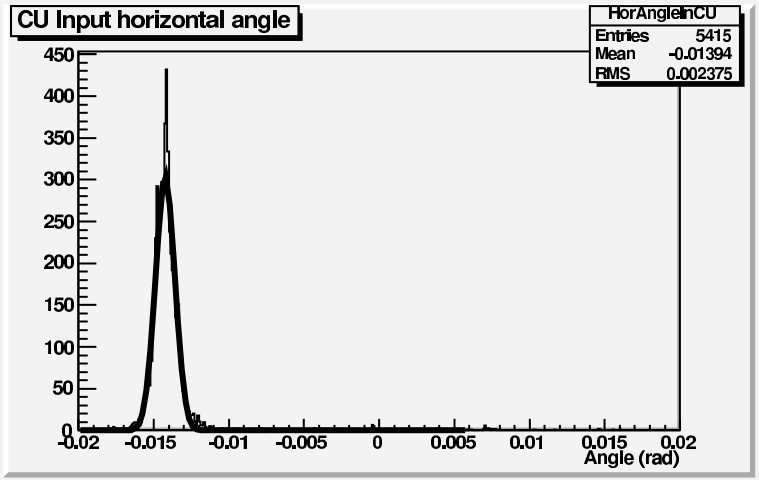

CU Input vertical angle
VertAngleInCU
Entries 4544
Mean 0.005469
RMS 0.001815
Angle (rad)

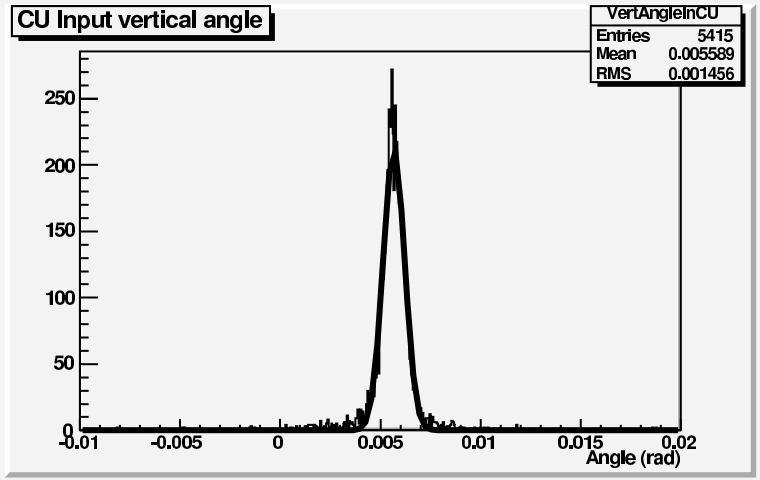

CU Input Beam Spot
SpotCoordInCU
Entries 4544
Mean x 411.9
Mean y 1.624
RMS x 5.14
RMS y 5.25
Vertical Position (mm)
Horizontal Position (mm)

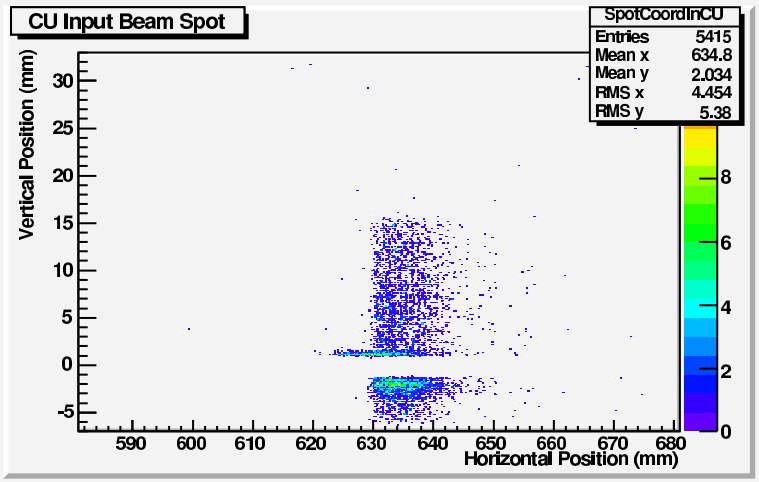

CU Input Beam Spot
SpotAngleInCU
Entries 4544
Mean x 0.005375
Mean y -0.01401
RMS x 0.002218
RMS y 0.002319
Vertical Angle (rad)
Horizontal Angle (rad)

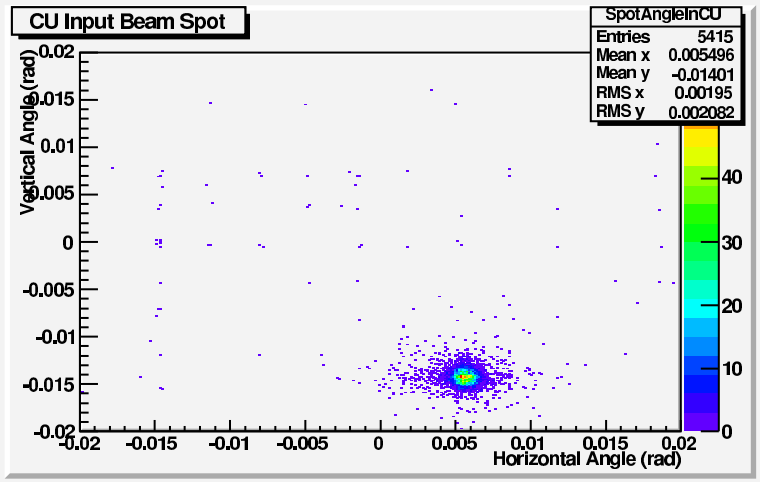

CU Input Horizontal coordinate
HorCoordInCU
Entries 5415
Mean 635.2
RMS 7.331
Position (mm)

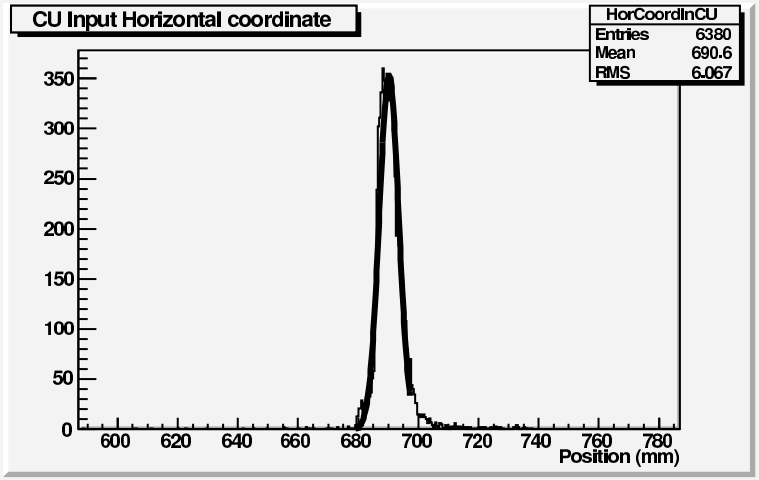

CU Input vertical coordinate
VertCoordInCU
Entries 5415
Mean 1.837
RMS 6.187
Position (mm)

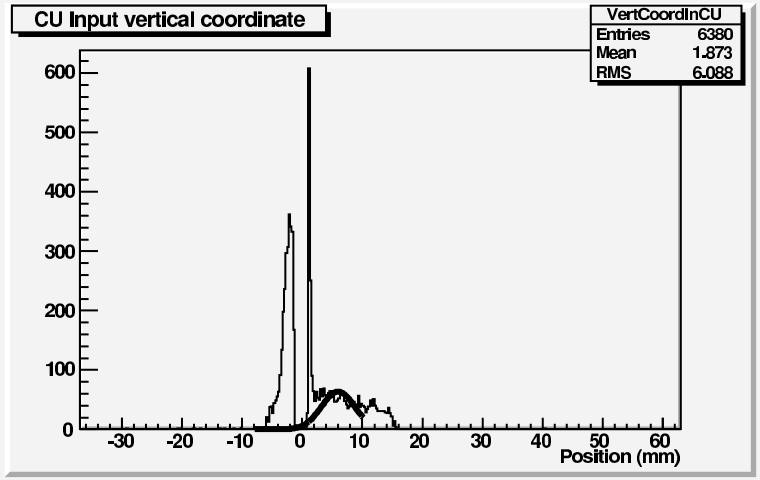

CU Input horizontal angle
HorAngleInCU
Entries 5415
Mean -0.01394
RMS 0.002375
Angle (rad)

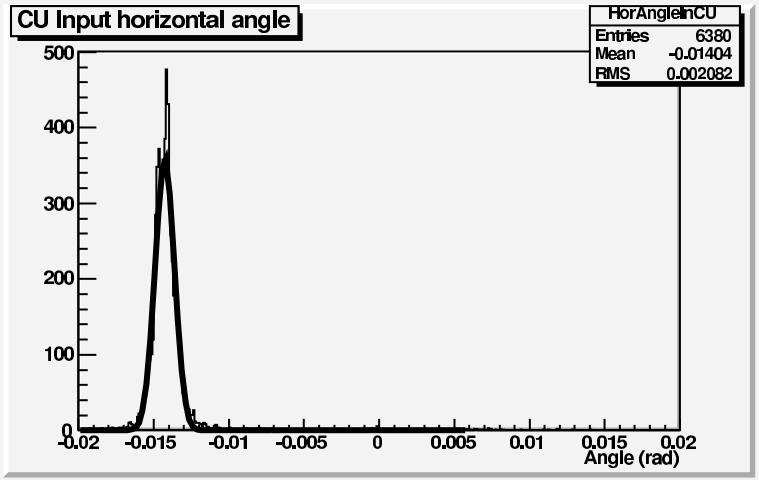

CU Input vertical angle
VertAngleInCU
Entries 5415
Mean 0.005589
RMS 0.001456
Angle (rad)

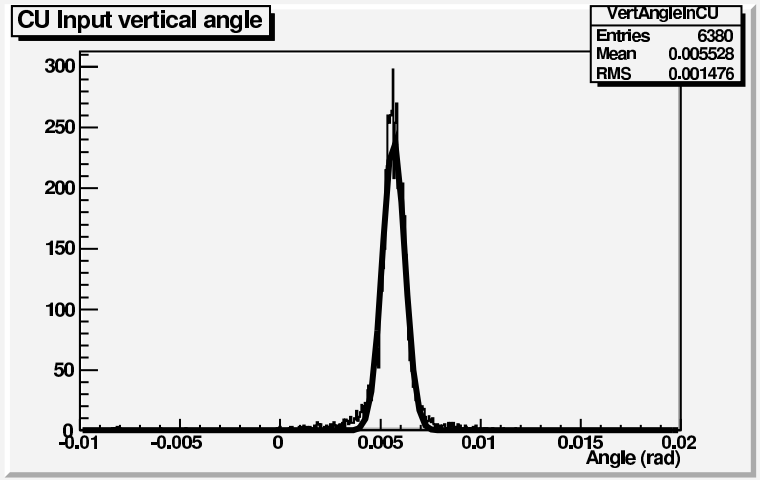

CU Input Beam Spot
SpotCoordInCU
Entries 5415
Mean x 634.8
Mean y 2.034
RMS x 4.454
RMS y 5.38
Vertical Position (mm)
Horizontal Position (mm)

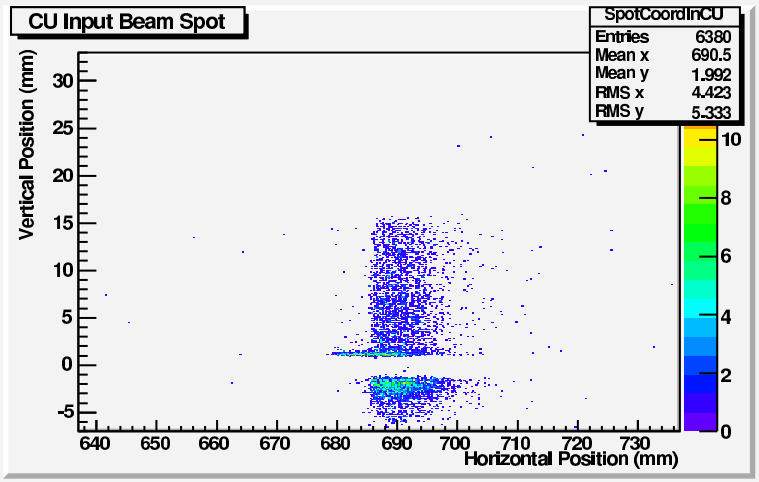

CU Input Beam Spot
SpotAngleInCU
Entries 5415
Mean x 0.005496
Mean y -0.01401
RMS x 0.00195
RMS y 0.002082
Vertical Angle (rad)
Horizontal Angle (rad)

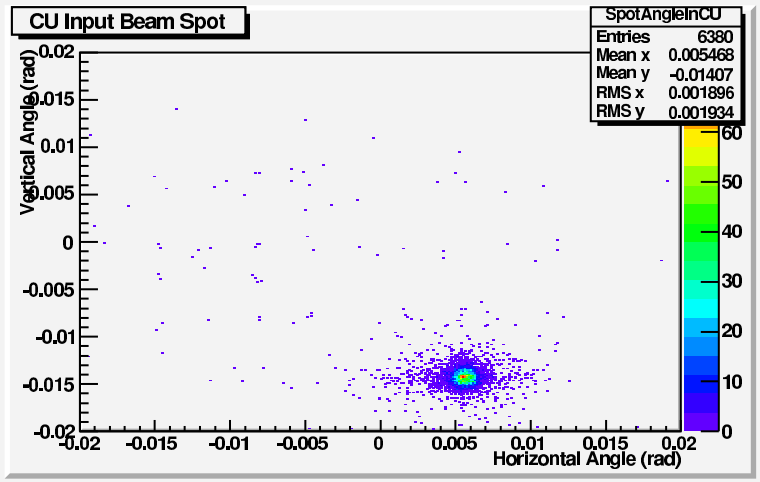

CU Input Horizontal coordinate
HorCoordInCU
Entries 6380
Mean 690.6
RMS 6.067
Position (mm)

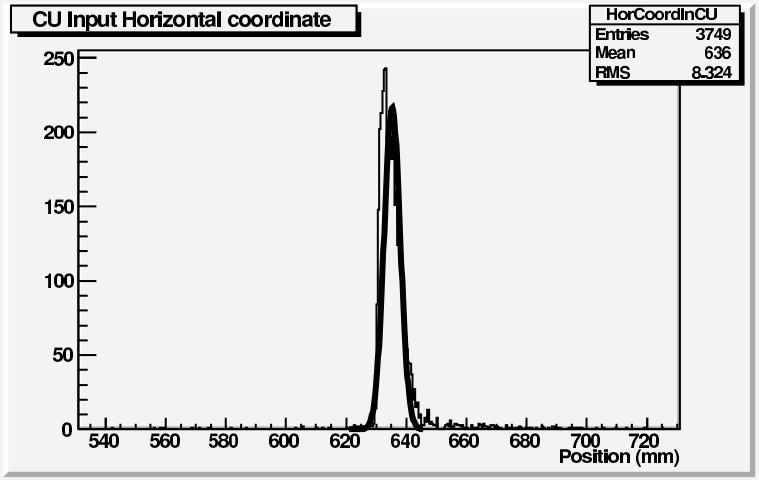

CU Input vertical coordinate
VertCoordInCU
Entries 6380
Mean 1.873
RMS 6.088
Position (mm)

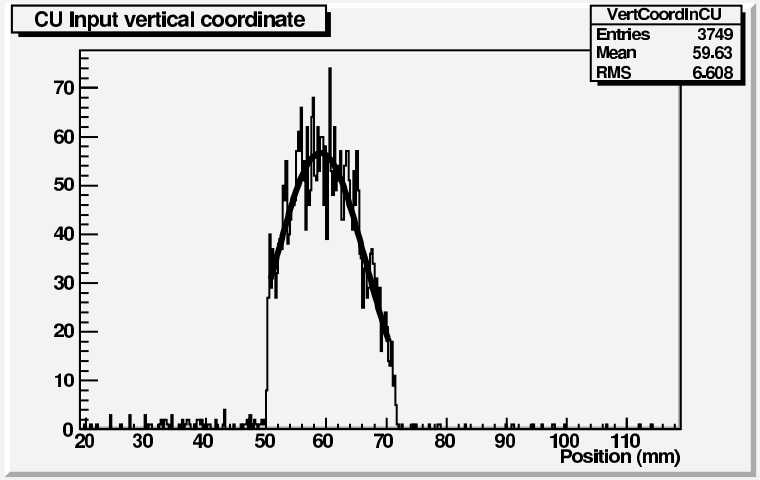

CU Input horizontal angle
HorAngleInCU
Entries 6380
Mean -0.01404
RMS 0.002082
Angle (rad)

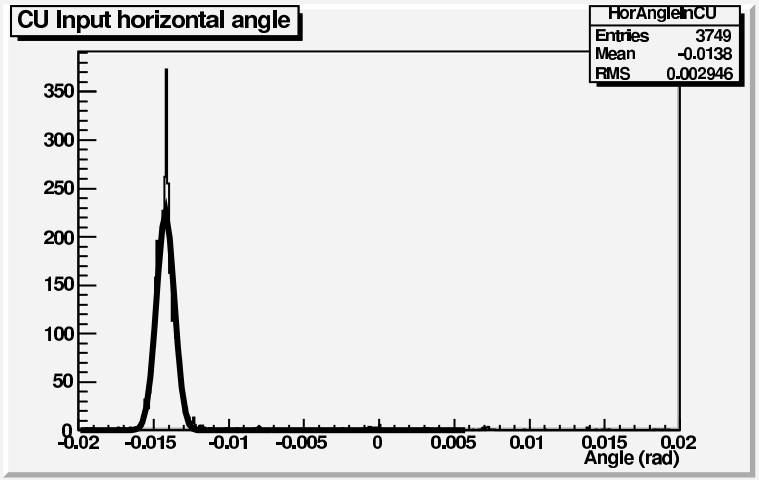

CU Input vertical angle
VertAngleInCU
Entries 6380
Mean 0.005528
RMS 0.001476
Angle (rad)

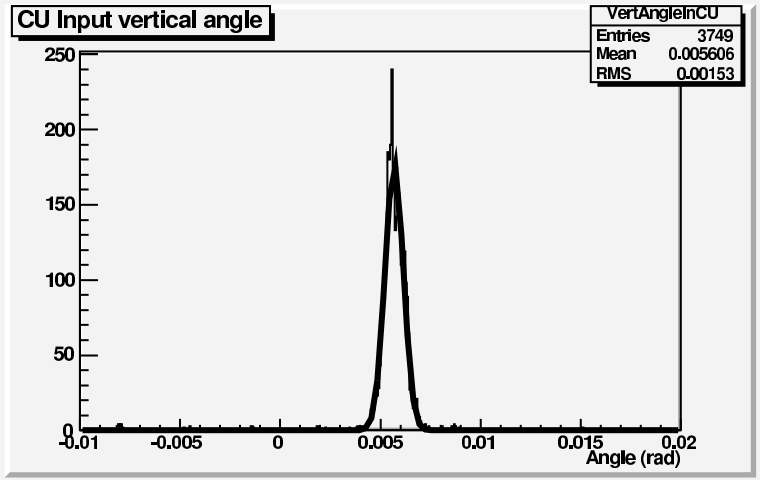

CU Input Beam Spot
SpotCoordInCU
Entries 6380
Mean x 690.5
Mean y 1.992
RMS x 4.423
RMS y 5.333
Vertical Position (mm)
Horizontal Position (mm)

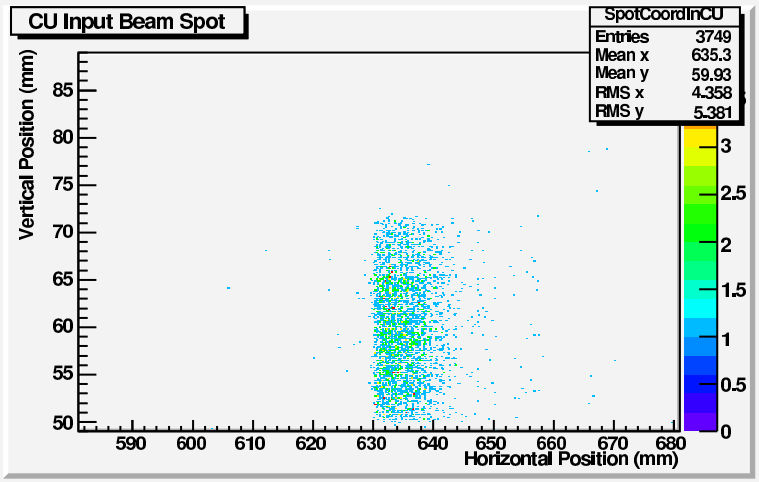

CU Input Beam Spot
SpotAngleInCU
Entries 6380
Mean x 0.005468
Mean y -0.01407
RMS x 0.001896
RMS y 0.001934
Vertical Angle (rad)
Horizontal Angle (rad)

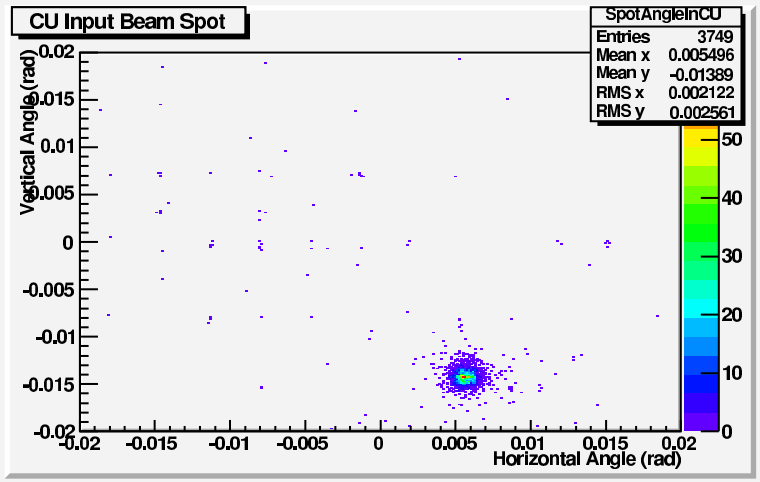

CU Input Horizontal coordinate
HorCoordInCU
Entries 3749
Mean 636
RMS 8.324
Position (mm)

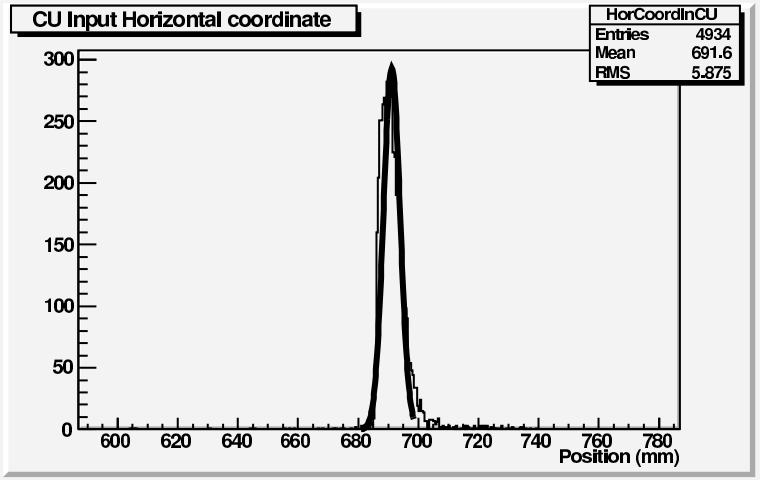

CU Input vertical coordinate
VertCoordInCU
Entries 3749
Mean 59.63
RMS 6.608
Position (mm)

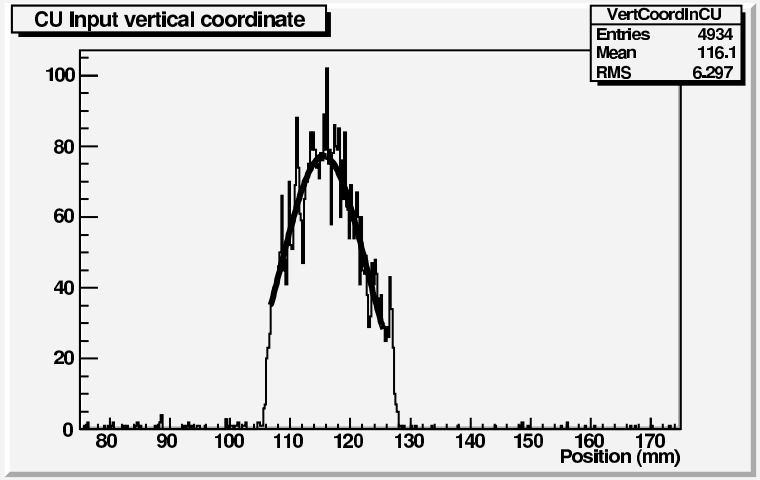

CU Input horizontal angle
HorAngleInCU
Entries 3749
Mean -0.0138
RMS 0.002946
Angle (rad)

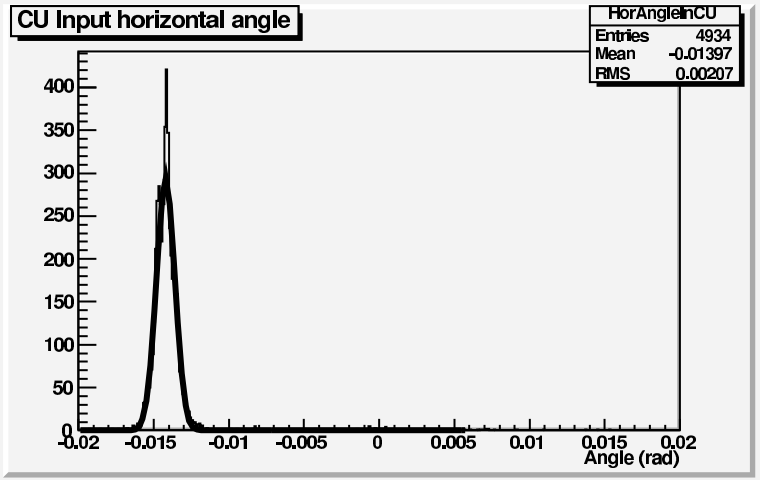

CU Input vertical angle
VertAngleInCU
Entries 3749
Mean 0.005606
RMS 0.00153
Angle (rad)

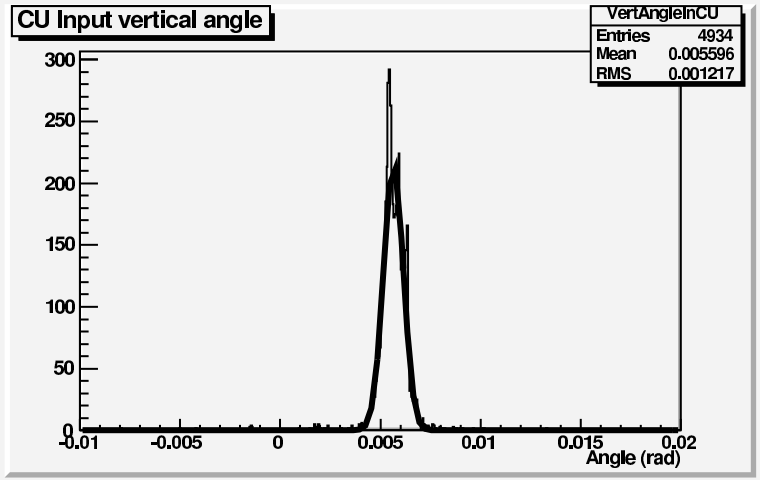

CU Input Beam Spot
SpotCoordInCU
Entries 3749
Mean x 635.3
Mean y 59.93
RMS x 4.358
RMS y 5.381
Vertical Position (mm)
Horizontal Position (mm)

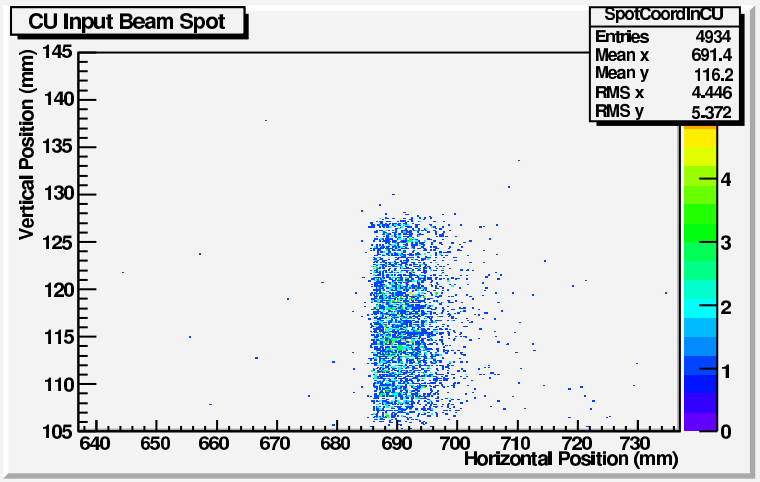

CU Input Beam Spot
SpotAngleInCU
Entries 3749
Mean x 0.005496
Mean y -0.01389
RMS x 0.002122
RMS y 0.002561
Vertical Angle (rad)
Horizontal Angle (rad)

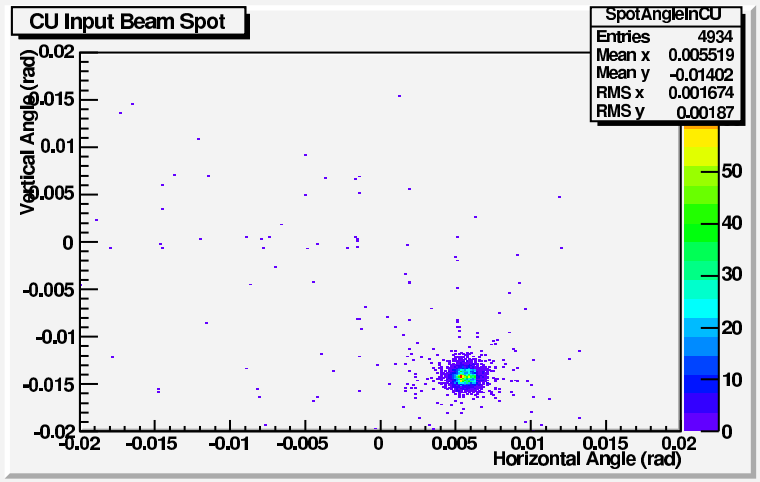

CU Input Horizontal coordinate
HorCoordInCU
Entries 4934
Mean 691.6
RMS 5.875
Position (mm)

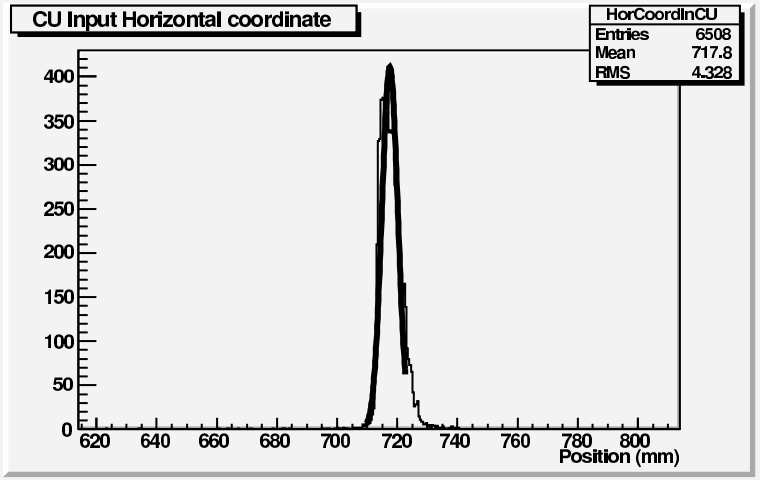

CU Input vertical coordinate
VertCoordInCU
Entries 4934
Mean 116.1
RMS 6.297
Position (mm)

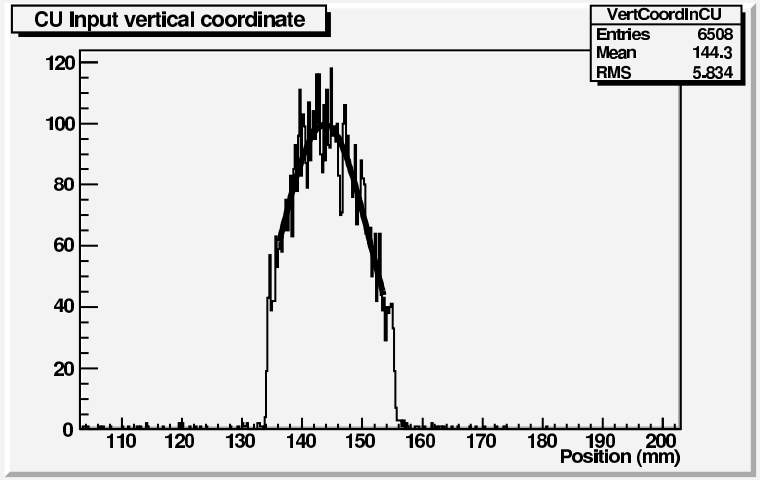

CU Input horizontal angle
HorAngleInCU
Entries 4934
Mean -0.01397
RMS 0.00207
Angle (rad)

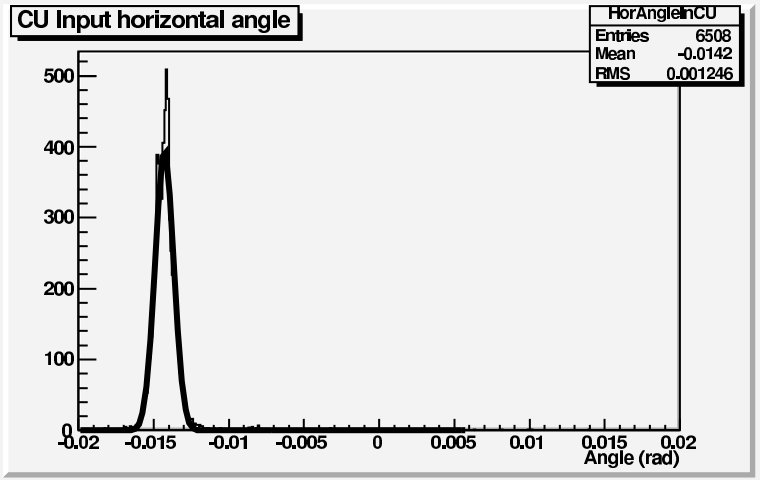

CU Input vertical angle
VertAngleInCU
Entries 4934
Mean 0.005596
RMS 0.001217
Angle (rad)

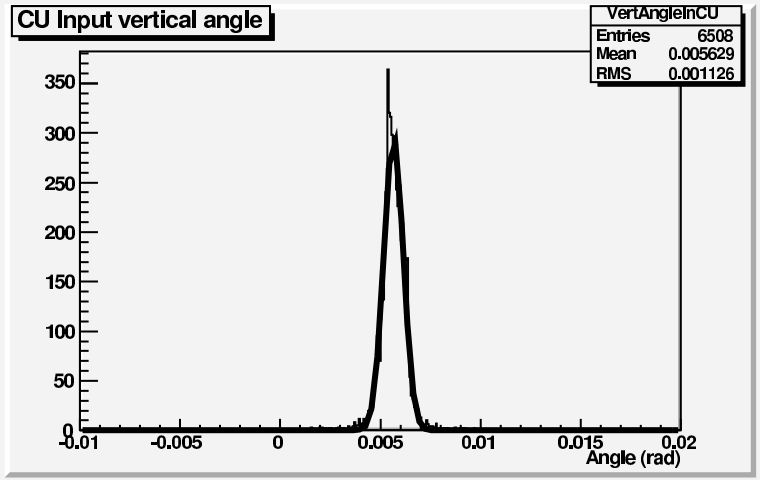

CU Input Beam Spot
SpotCoordInCU
Entries 4934
Mean x 691.4
Mean y 116.2
RMS x 4.446
RMS y 5.372
Vertical Position (mm)
Horizontal Position (mm)

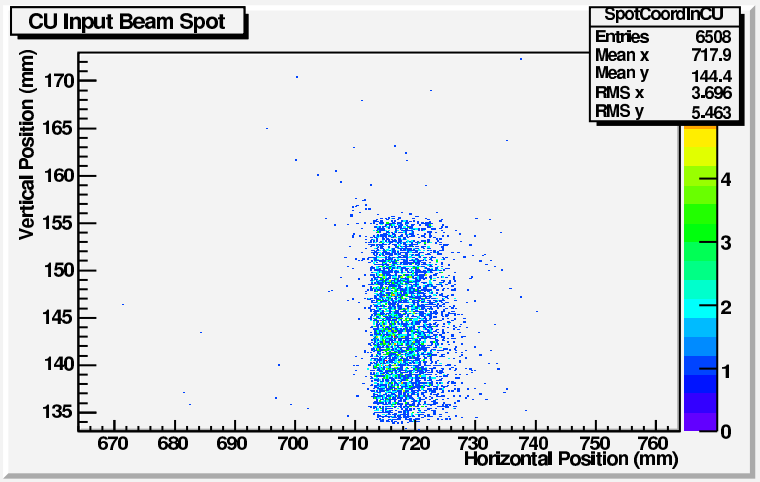

CU Input Beam Spot
SpotAngleInCU
Entries 4934
Mean x 0.005519
Mean y -0.01402
RMS x 0.001674
RMS y 0.00187
Vertical Angle (rad)
Horizontal Angle (rad)

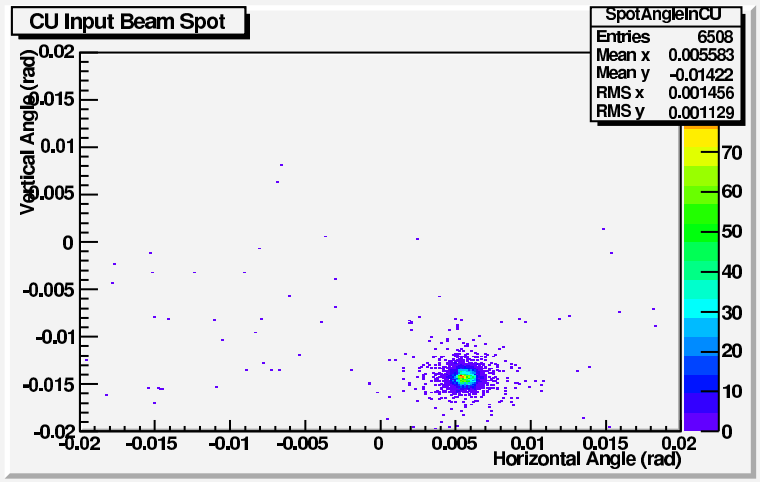

CU Input Horizontal coordinate
HorCoordInCU
Entries 6508
Mean 717.8
RMS 4.328
Position (mm)

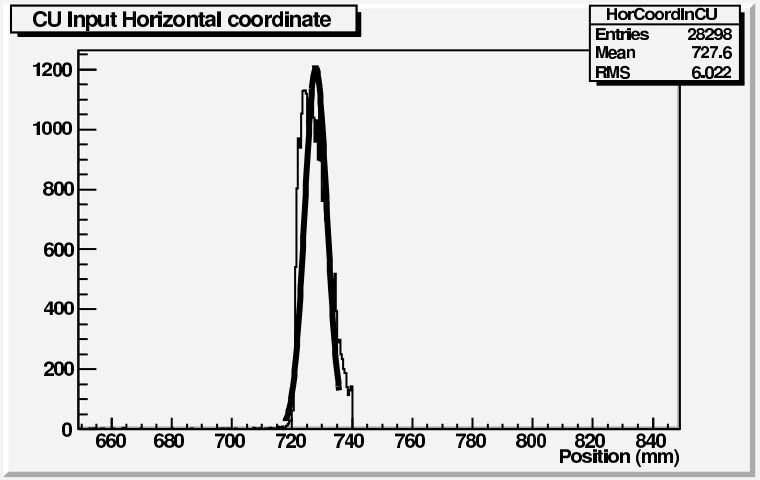

CU Input vertical coordinate
VertCoordInCU
Entries 6508
Mean 144.3
RMS 5.834
Position (mm)

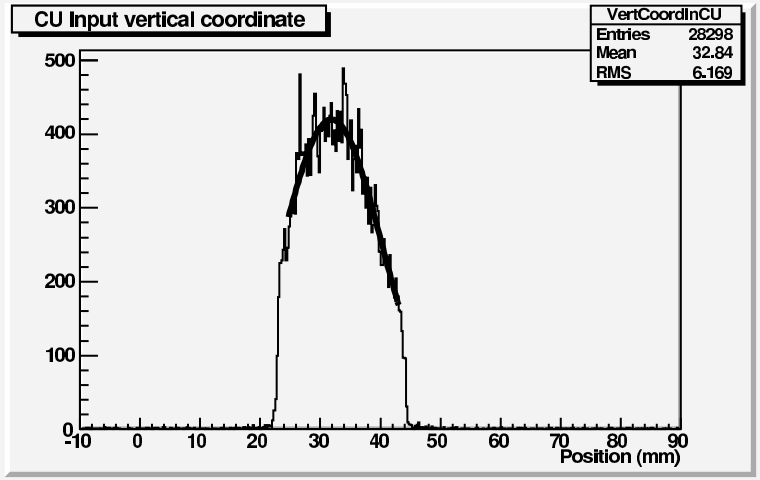

CU Input horizontal angle
HorAngleInCU
Entries 6508
Mean -0.0142
RMS 0.001246
Angle (rad)

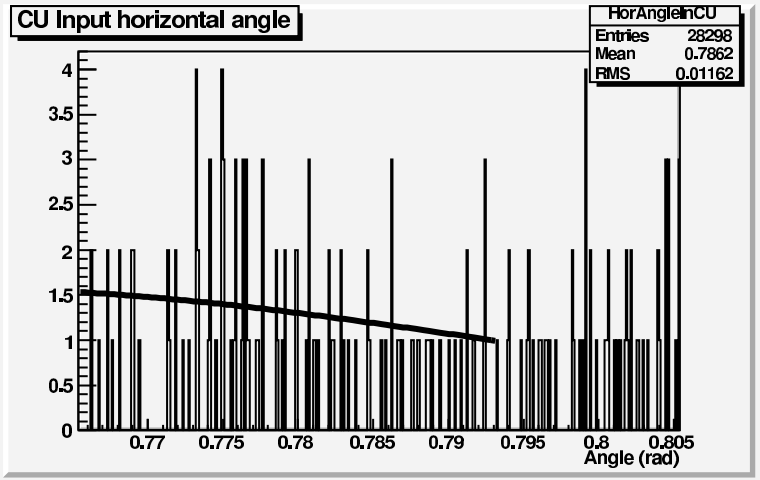

CU Input vertical angle
VertAngleInCU
Entries 6508
Mean 0.005629
RMS 0.001126
Angle (rad)

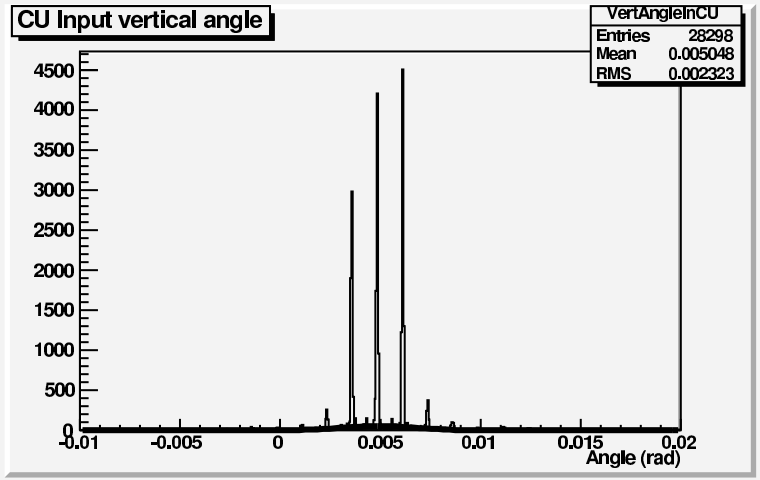

CU Input Beam Spot
SpotCoordInCU
Entries 6508
Mean x 717.9
Mean y 144.4
RMS x 3.696
RMS y 5.463
Vertical Position (mm)
Horizontal Position (mm)

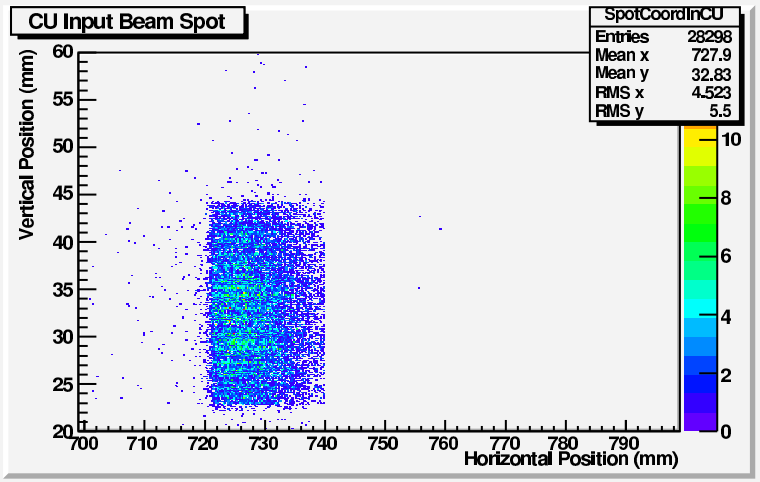

CU Input Beam Spot
SpotAngleInCU
Entries 6508
Mean x 0.005583
Mean y -0.01422
RMS x 0.001456
RMS y 0.001129
Vertical Angle (rad)
Horizontal Angle (rad)

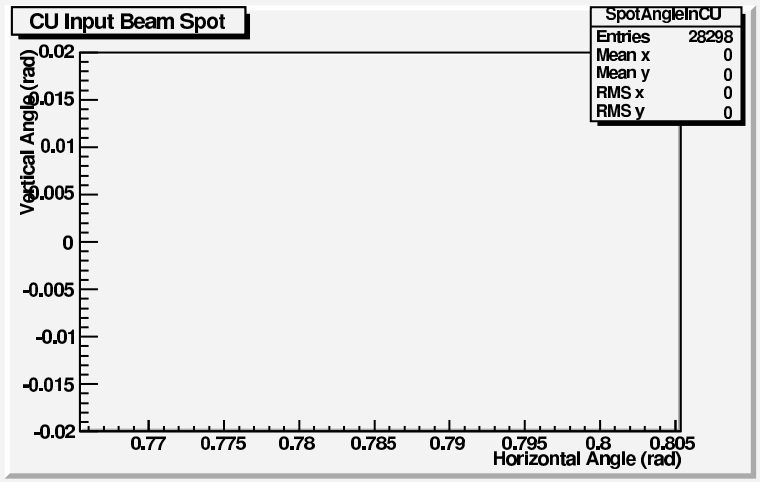

CU Input Horizontal coordinate
HorCoordInCU
Entries 28298
Mean 727.6
RMS 6.022
Position (mm)

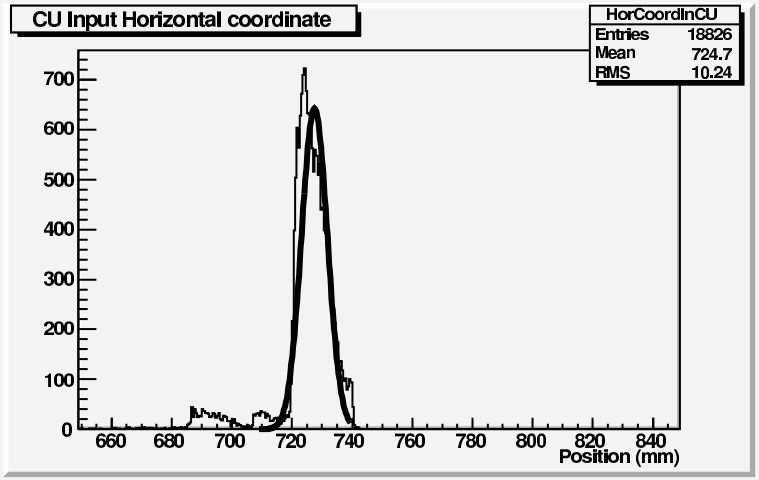

CU Input vertical coordinate
VertCoordInCU
Entries 28298
Mean 32.84
RMS 6.169
Position (mm)

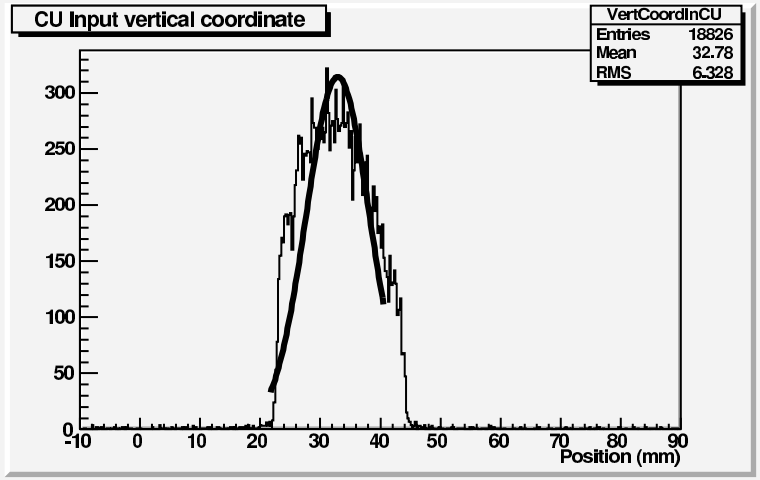

CU Input horizontal angle
HorAngleInCU
Entries 28298
Mean 0.7862
RMS 0.01162
Angle (rad)

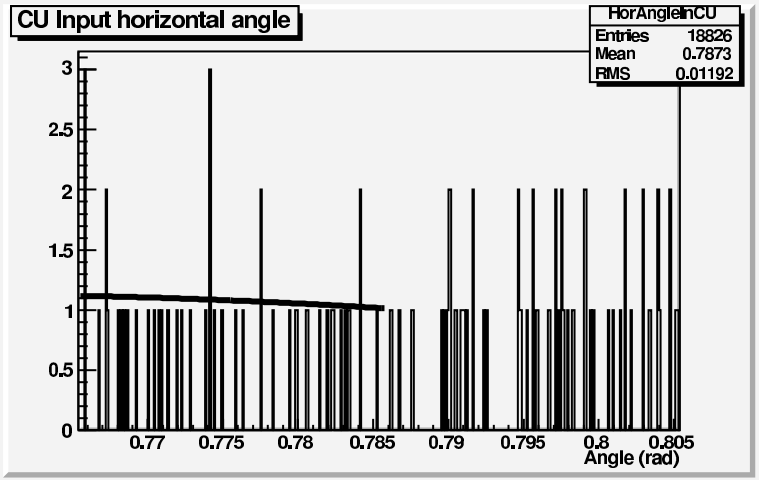

CU Input vertical angle
VertAngleInCU
Entries 28298
Mean 0.005048
RMS 0.002323
Angle (rad)

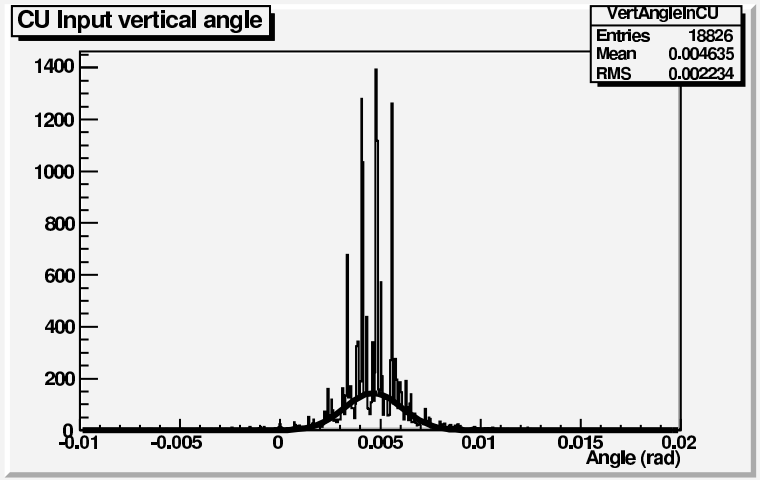

CU Input Beam Spot
SpotCoordInCU
Entries 28298
Mean x 727.9
Mean y 32.83
RMS x 4.523
RMS y 5.5
Vertical Position (mm)
Horizontal Position (mm)

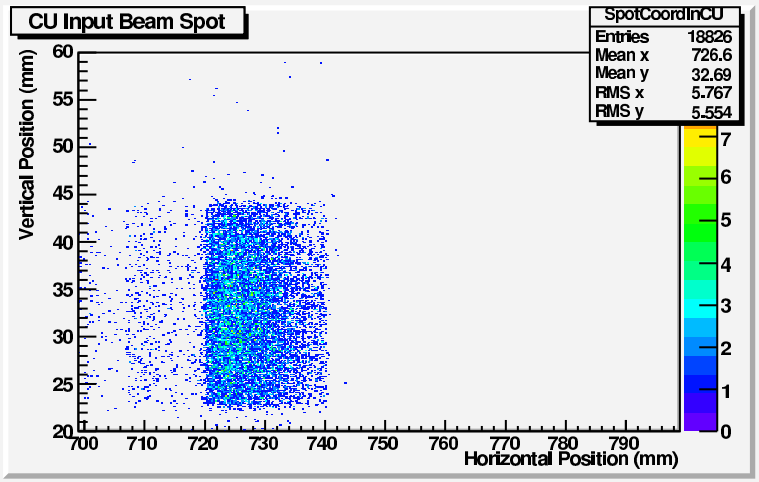

CU Input Beam Spot
SpotAngleInCU
Entries 28298
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

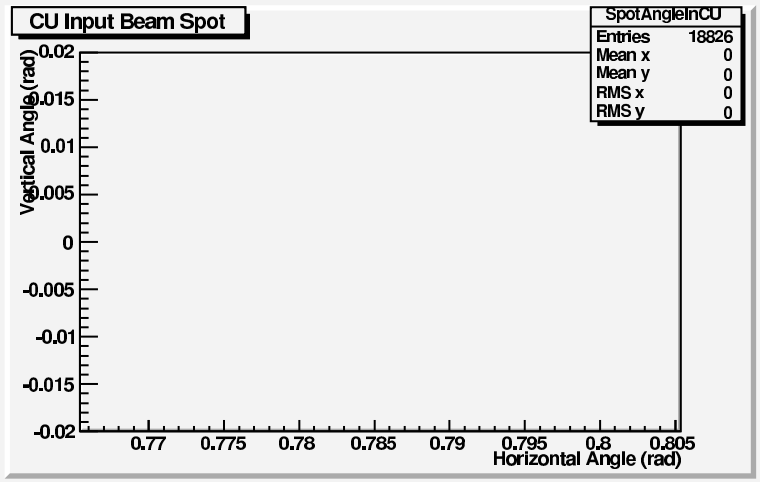

CU Input Horizontal coordinate
HorCoordInCU
Entries 18826
Mean 724.7
RMS 10.24
Position (mm)

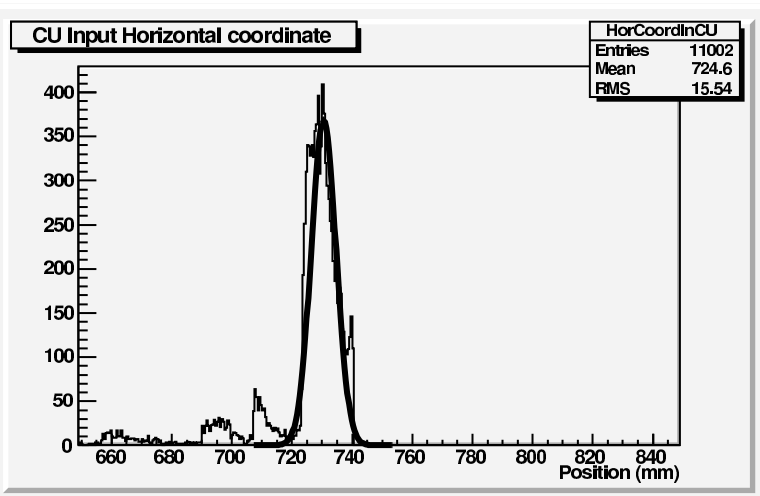

CU Input vertical coordinate
VertCoordInCU
Entries 18826
Mean 32.78
RMS 6.328
Position (mm)

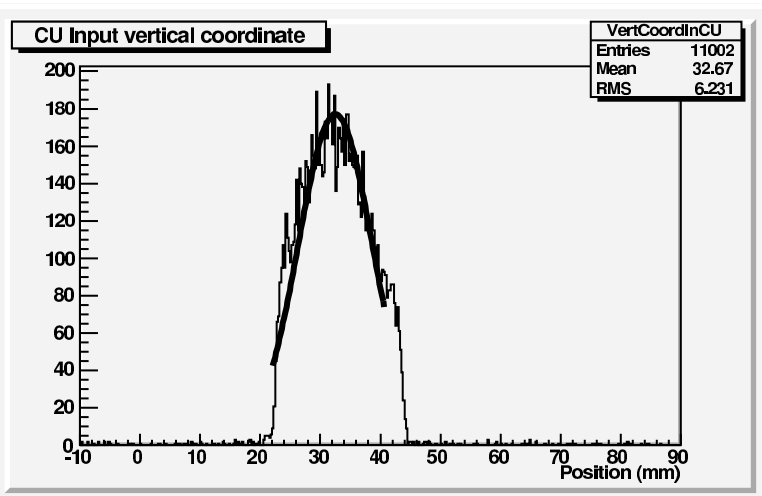

CU Input horizontal angle
HorAngleInCU
Entries 18826
Mean 0.7873
RMS 0.01192
Angle (rad)

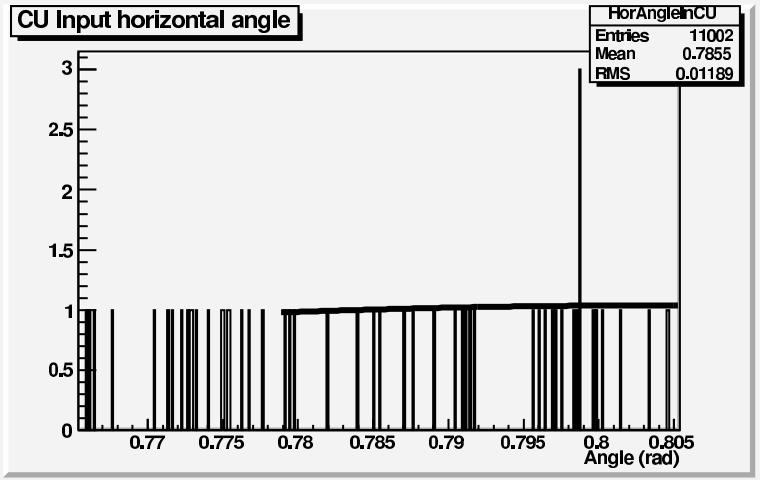

CU Input vertical angle
VertAngleInCU
Entries 18826
Mean 0.004635
RMS 0.002234
Angle (rad)

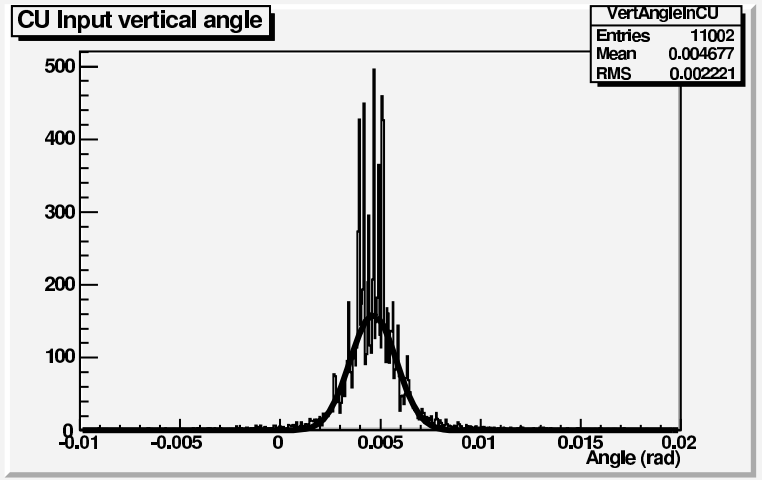

CU Input Beam Spot
SpotCoordInCU
Entries 18826
Mean x 726.6
Mean y 32.69
RMS x 5.767
RMS y 5.554
Vertical Position (mm)
Horizontal Position (mm)

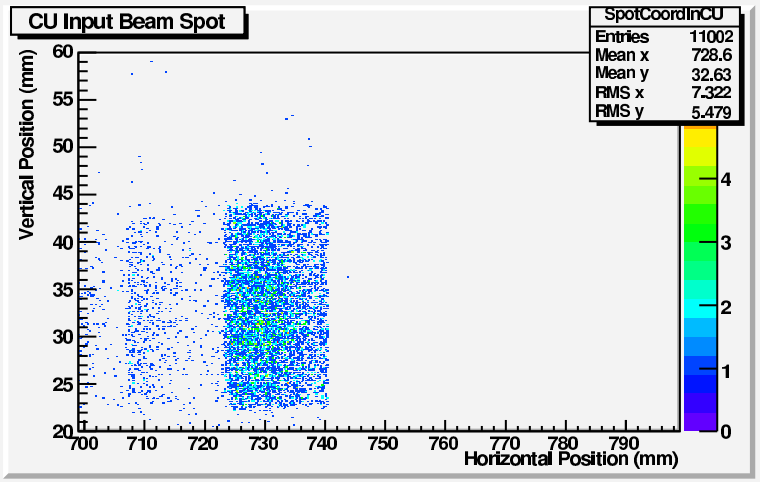

CU Input Beam Spot
SpotAngleInCU
Entries 18826
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

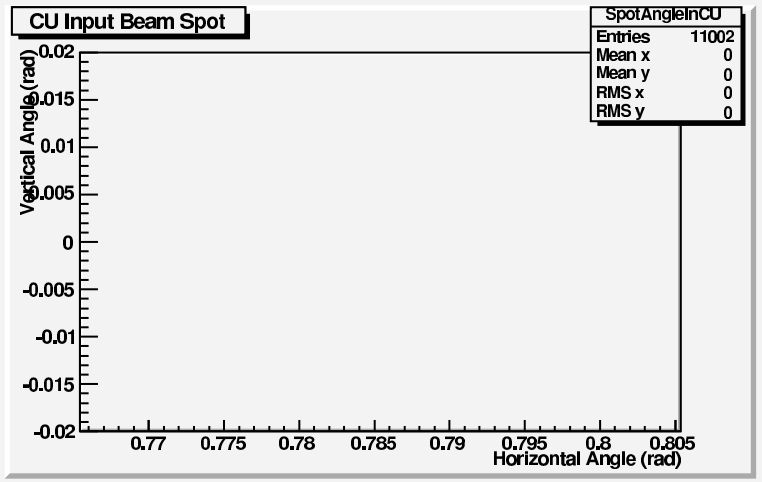

CU Input Horizontal coordinate
HorCoordInCU
Entries 11002
Mean 724.6
RMS 15.54
Position (mm)

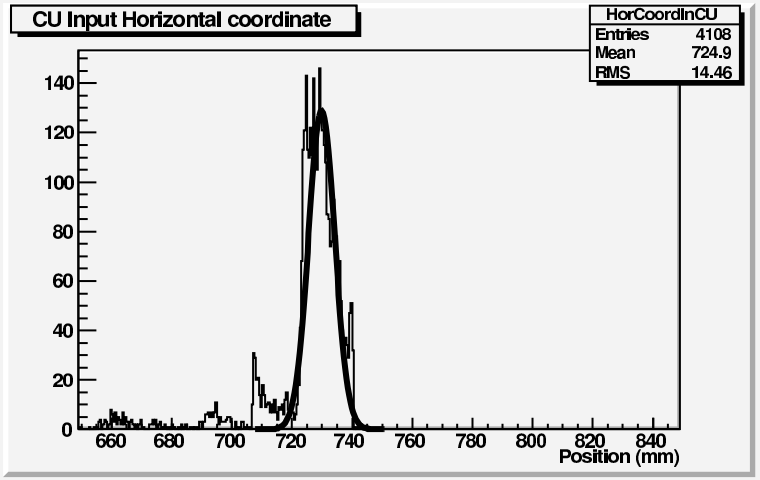

CU Input vertical coordinate
VertCoordInCU
Entries 11002
Mean 32.67
RMS 6.231
Position (mm)

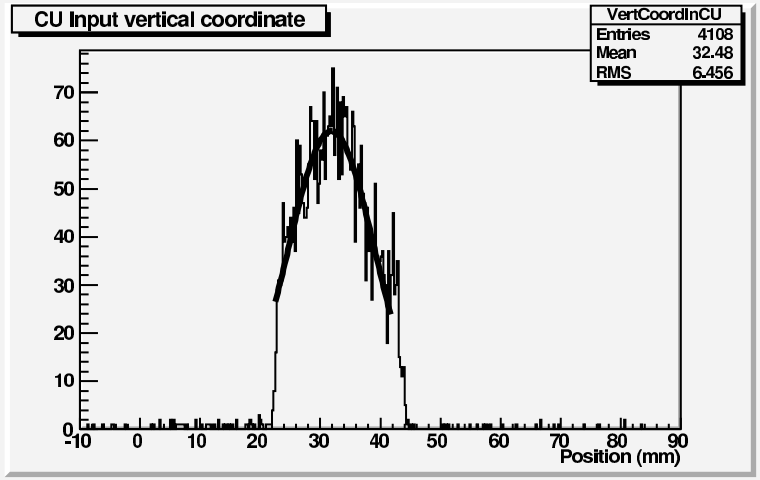

CU Input horizontal angle
HorAngleInCU
Entries 11002
Mean 0.7855
RMS 0.01189
Angle (rad)

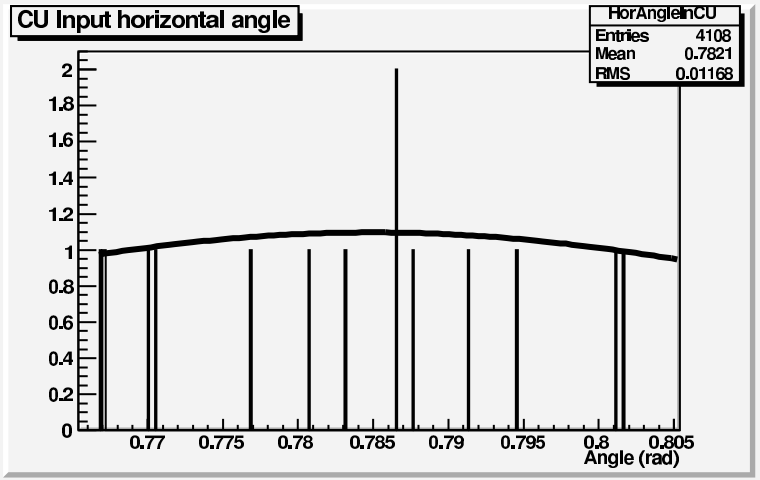

CU Input vertical angle
VertAngleInCU
Entries 11002
Mean 0.004677
RMS 0.002221
Angle (rad)

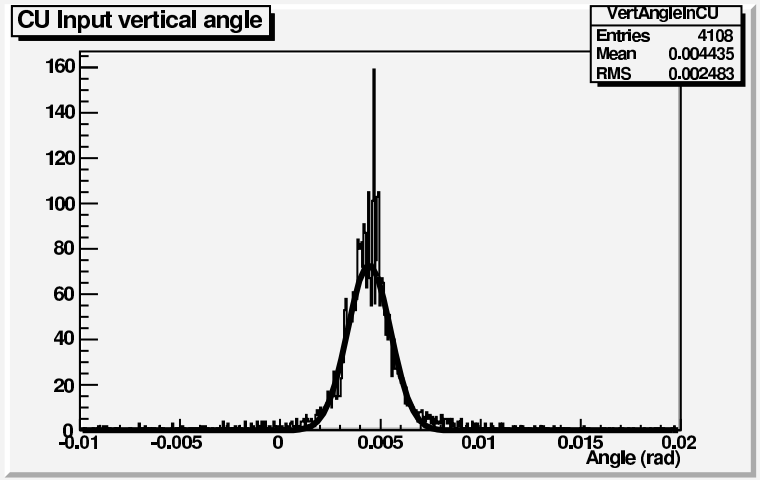

CU Input Beam Spot
SpotCoordInCU
Entries 11002
Mean x 728.6
Mean y 32.63
RMS x 7.322
RMS y 5.479
Vertical Position (mm)
Horizontal Position (mm)

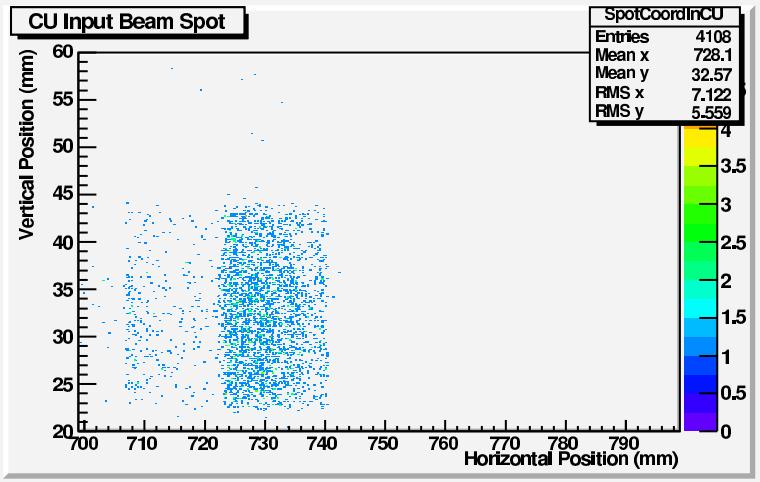

CU Input Beam Spot
SpotAngleInCU
Entries 11002
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

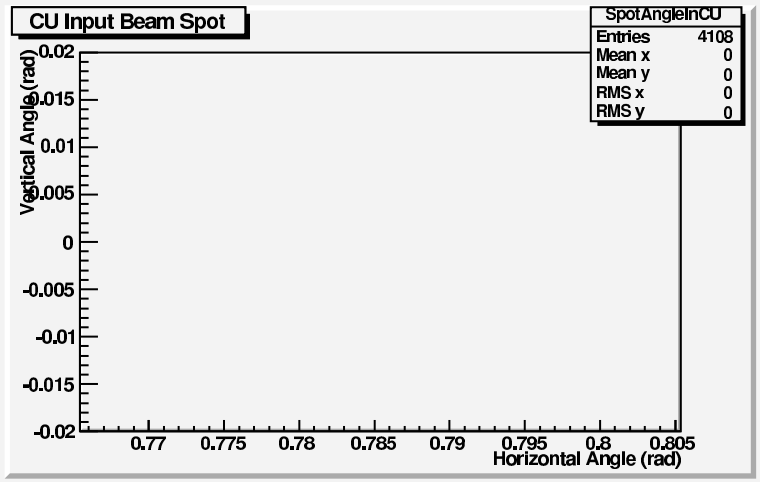

CU Input Horizontal coordinate
HorCoordInCU
Entries 4108
Mean 724.9
RMS 14.46
Position (mm)

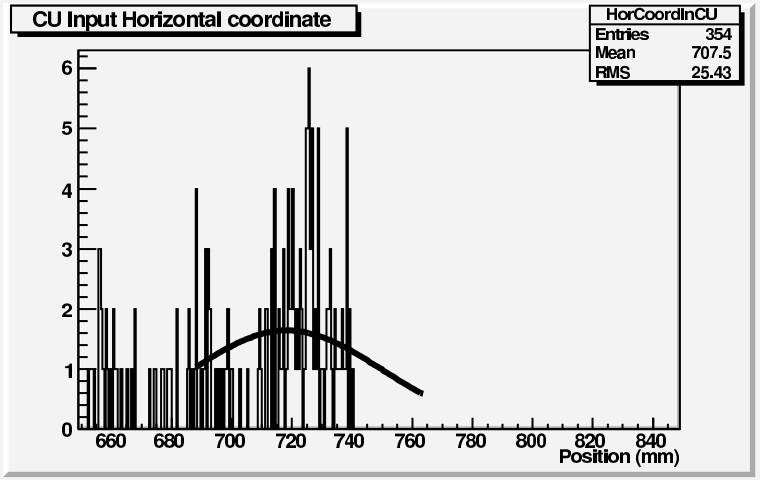

CU Input vertical coordinate
VertCoordInCU
Entries 4108
Mean 32.48
RMS 6.456
Position (mm)

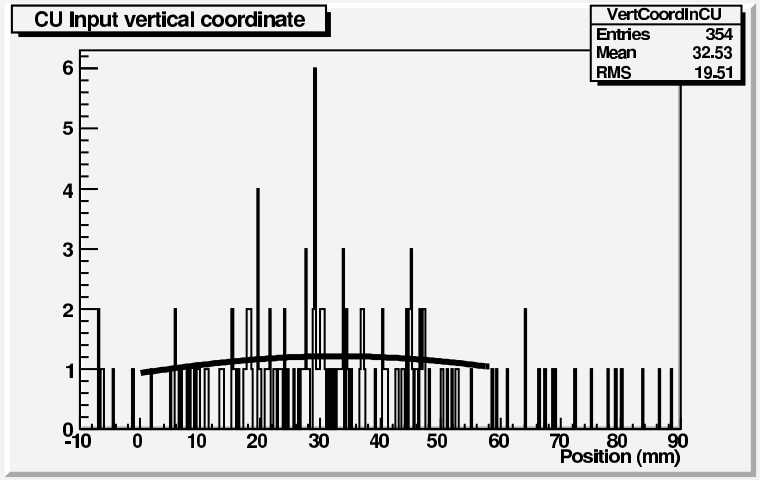

CU Input horizontal angle
HorAngleInCU
Entries 4108
Mean 0.7821
RMS 0.01168
Angle (rad)

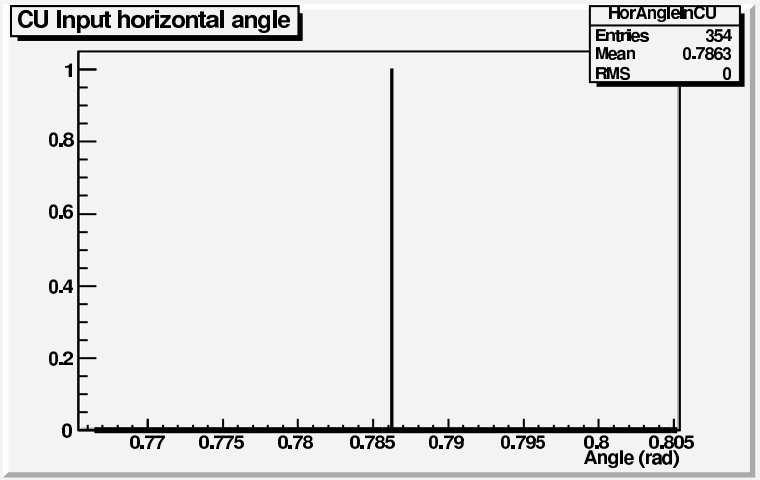

CU Input vertical angle
VertAngleInCU
Entries 4108
Mean 0.004435
RMS 0.002483
Angle (rad)

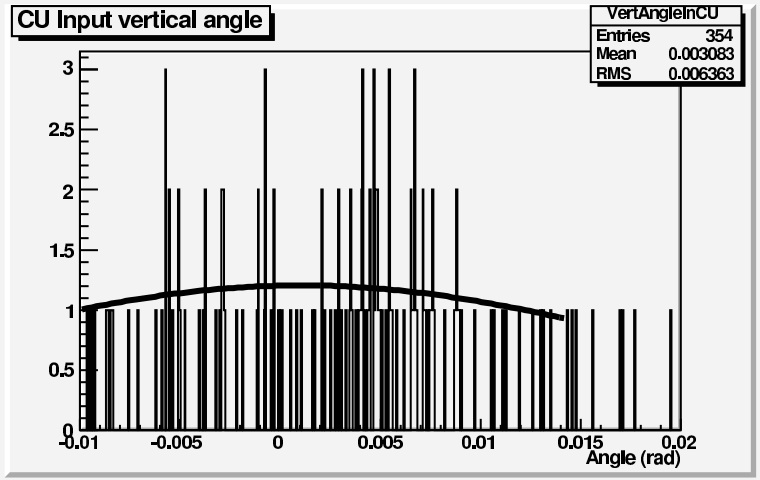

CU Input Beam Spot
SpotCoordInCU
Entries 4108
Mean x 728.1
Mean y 32.57
RMS x 7.122
RMS y 5.559
Vertical Position (mm)
Horizontal Position (mm)

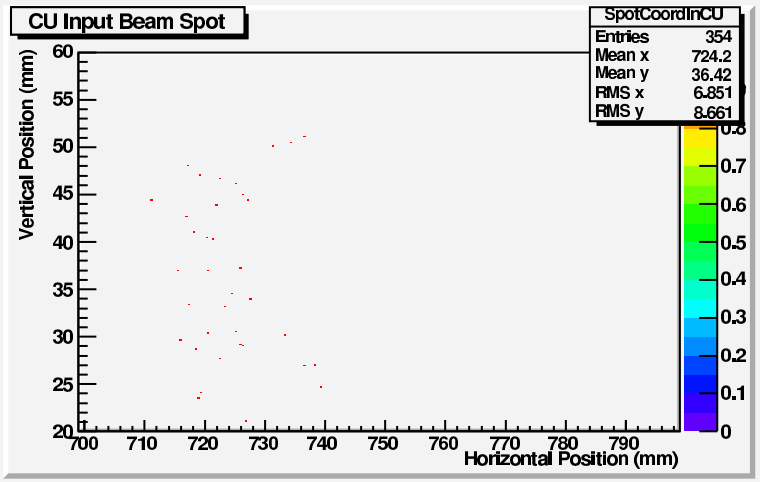

CU Input Beam Spot
SpotAngleInCU
Entries 4108
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

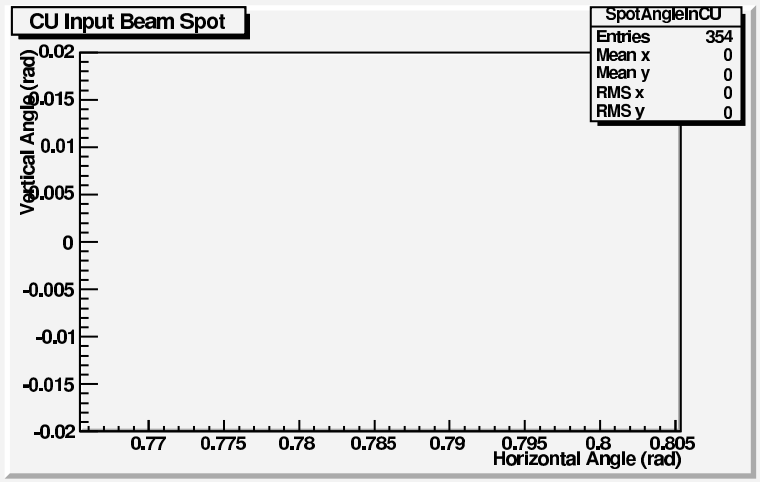

CU Input Horizontal coordinate
HorCoordInCU
Entries 354
Mean 707.5
RMS 25.43
Position (mm)

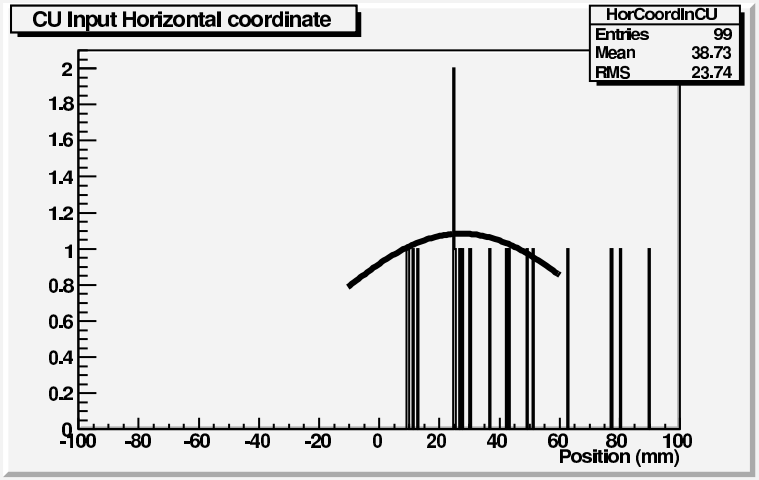

CU Input vertical coordinate
VertCoordInCU
Entries 354
Mean 32.53
RMS 19.51
Position (mm)

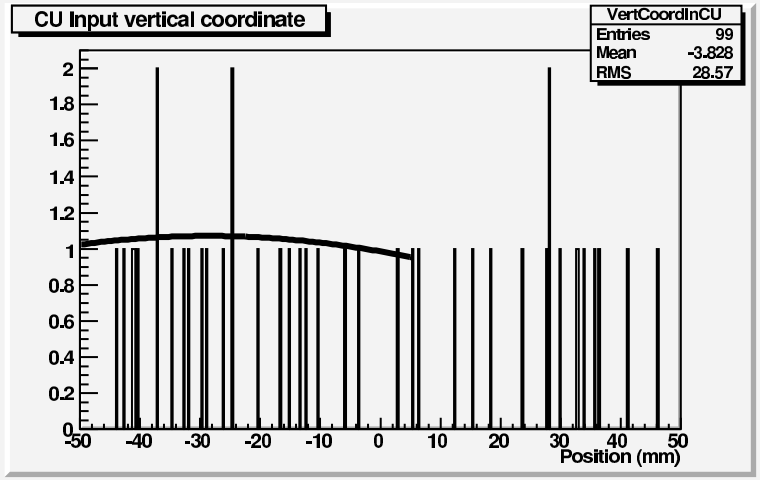

CU Input horizontal angle
HorAngleInCU
Entries 354
Mean 0.7863
RMS 0
Angle (rad)

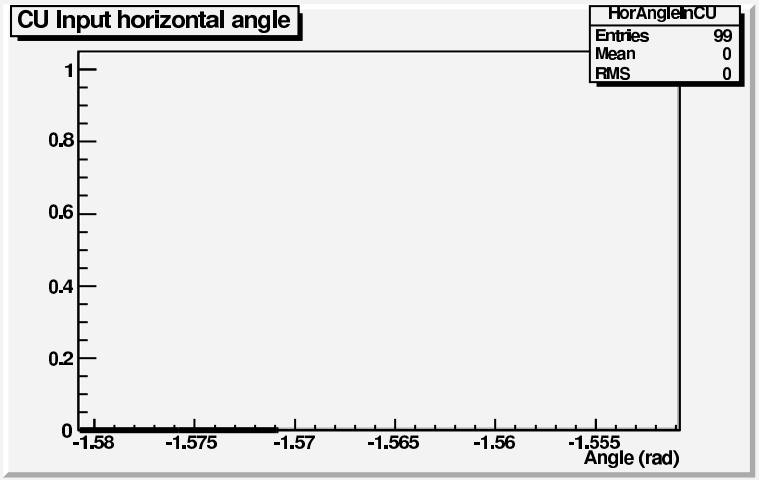

CU Input vertical angle
VertAngleInCU
Entries 354
Mean 0.003083
RMS 0.006363
Angle (rad)

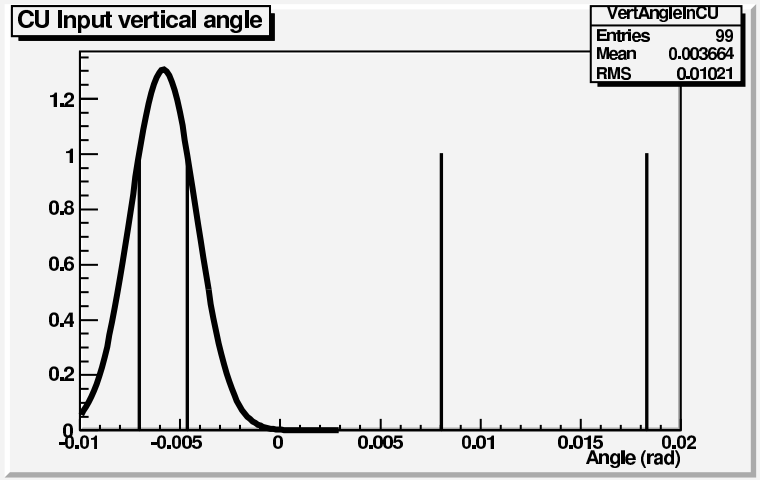

CU Input Beam Spot
SpotCoordInCU
Entries 354
Mean x 724.2
Mean y 36.42
RMS x 6.851
RMS y 8.661
Vertical Position (mm)
Horizontal Position (mm)

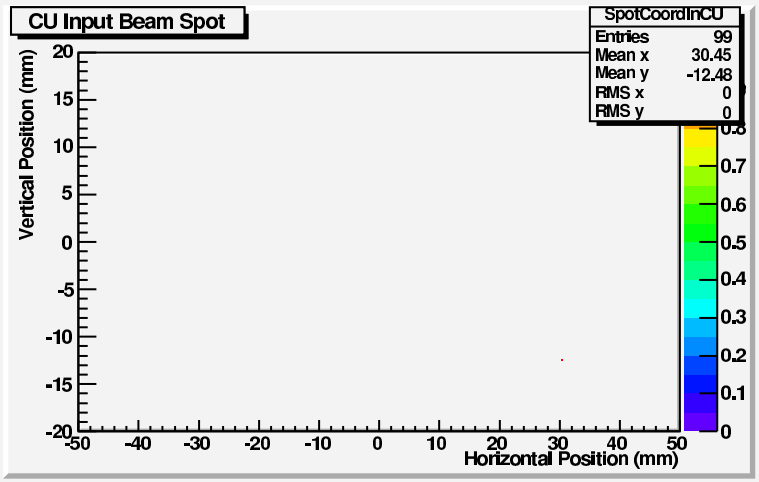

CU Input Beam Spot
SpotAngleInCU
Entries 354
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

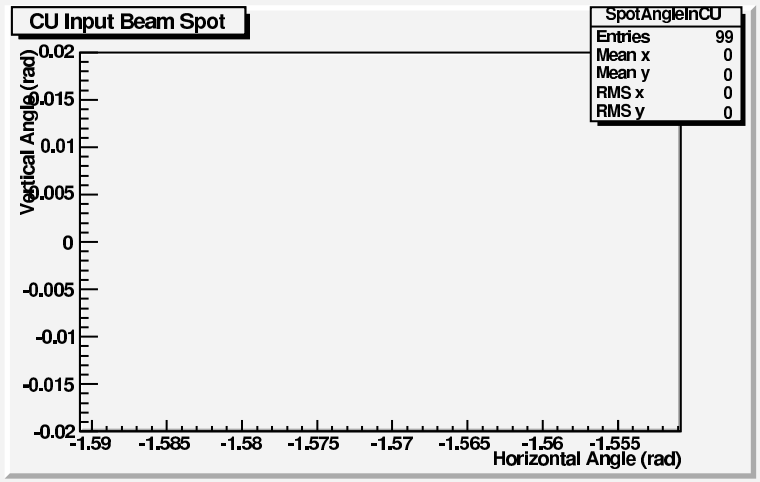

CU Input Horizontal coordinate
HorCoordInCU
Entries 99
Mean 38.73
RMS 23.74
Position (mm)

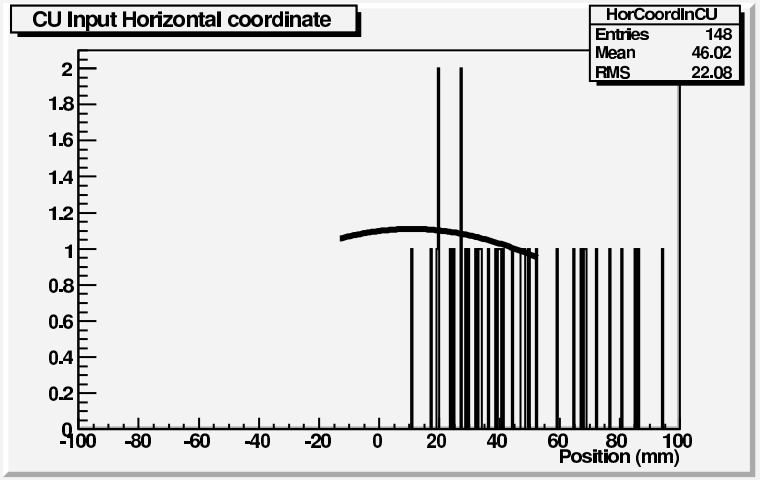

CU Input vertical coordinate
VertCoordInCU
Entries 99
Mean -3.828
RMS 28.57
Position (mm)

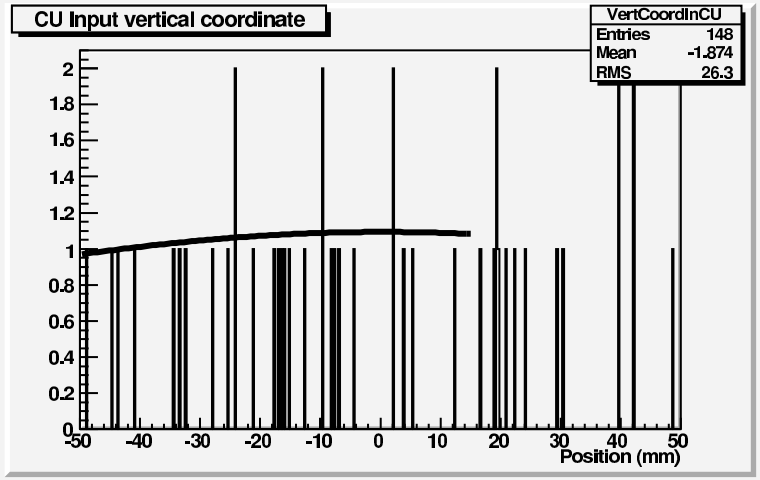

CU Input horizontal angle
HorAngleInCU
Entries 99
Mean 0
RMS 0
Angle (rad)

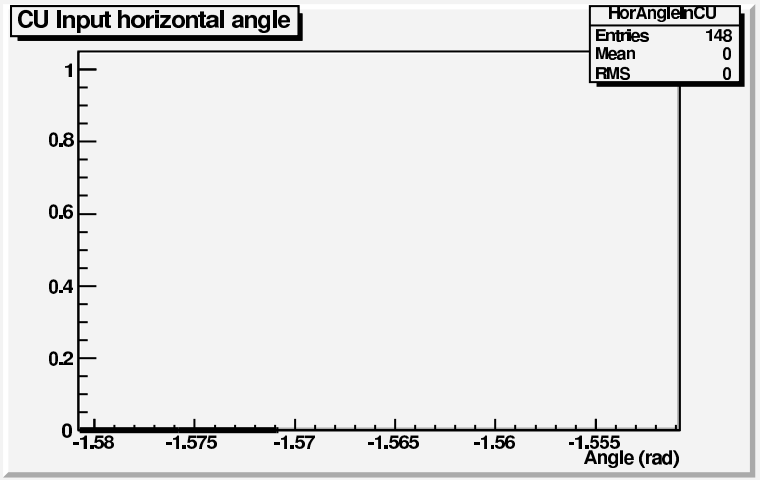

CU Input vertical angle
VertAngleInCU
Entries 99
Mean 0.003664
RMS 0.01021
Angle (rad)

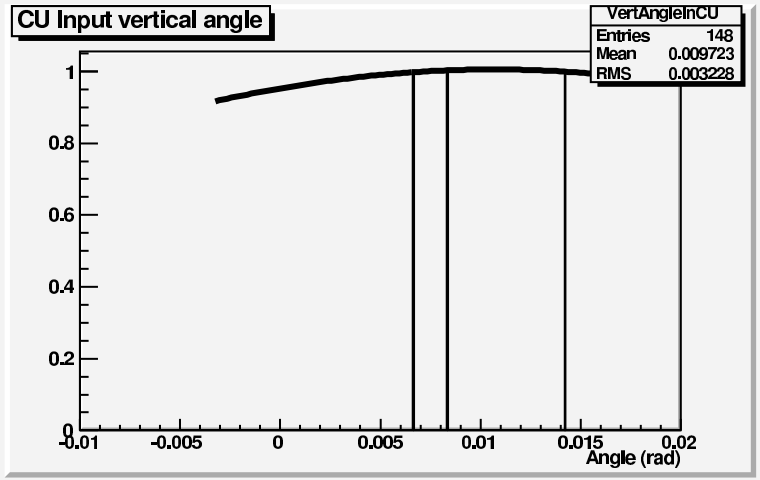

CU Input Beam Spot
SpotCoordInCU
Entries 99
Mean x 30.45
Mean y -12.48
RMS x 0
RMS y 0
Vertical Position (mm)
Horizontal Position (mm)

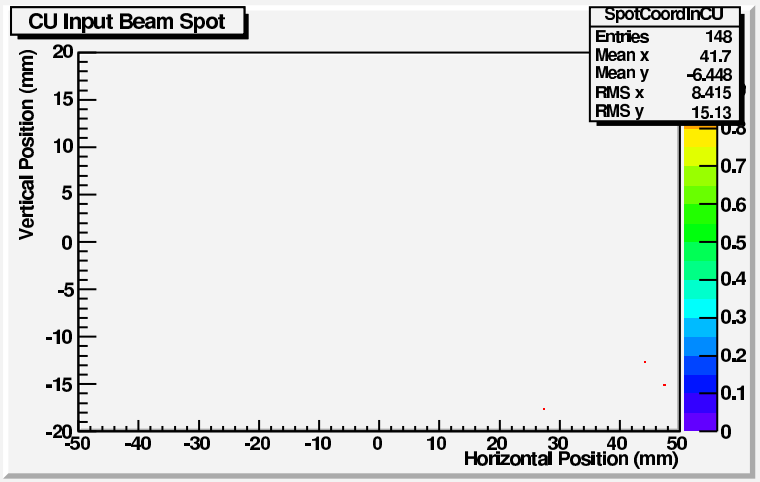

CU Input Beam Spot
SpotAngleInCU
Entries 99
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

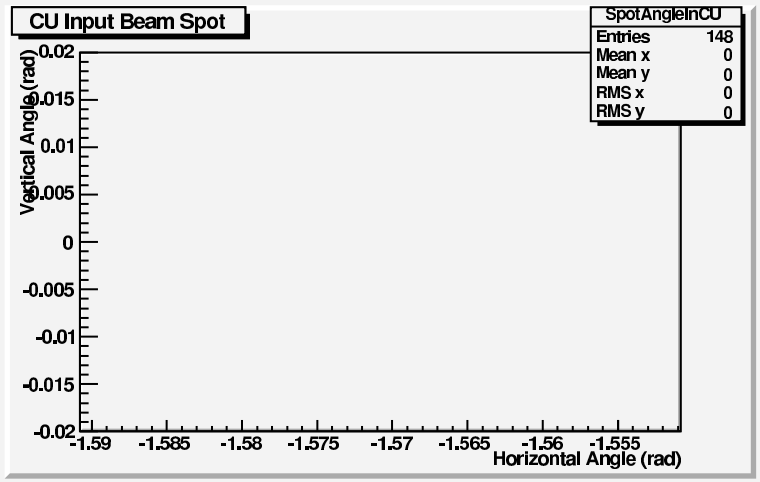

CU Input Horizontal coordinate
HorCoordInCU
Entries 148
Mean 46.02
RMS 22.08
Position (mm)

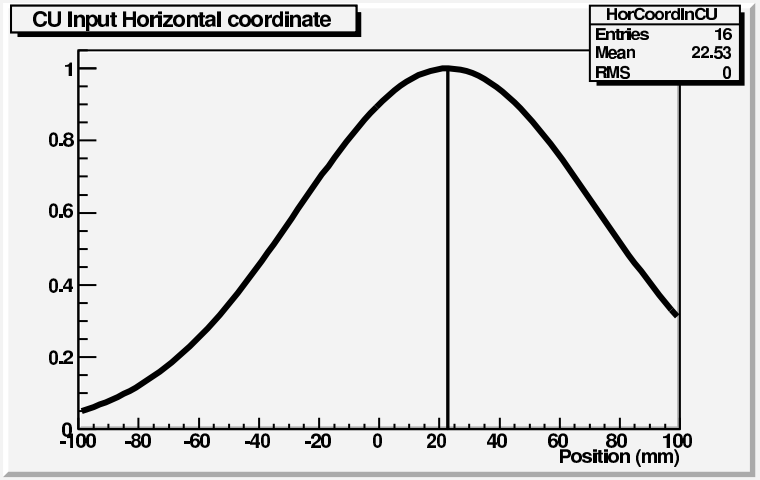

CU Input vertical coordinate
VertCoordInCU
Entries 148
Mean -1.874
RMS 26.3
Position (mm)

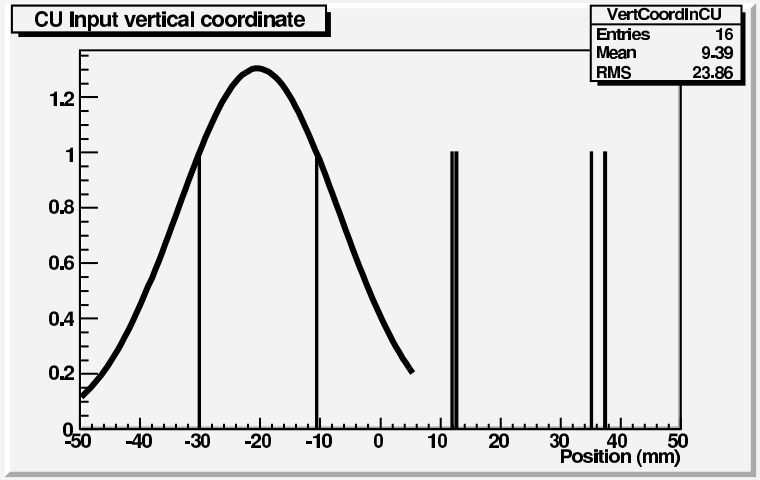

CU Input horizontal angle
HorAngleInCU
Entries 148
Mean 0
RMS 0
Angle (rad)

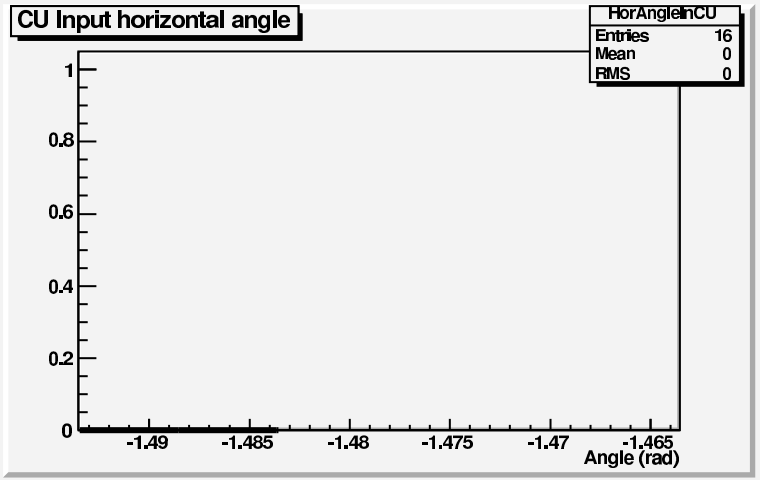

CU Input vertical angle
VertAngleInCU
Entries 148
Mean 0.009723
RMS 0.003228
Angle (rad)

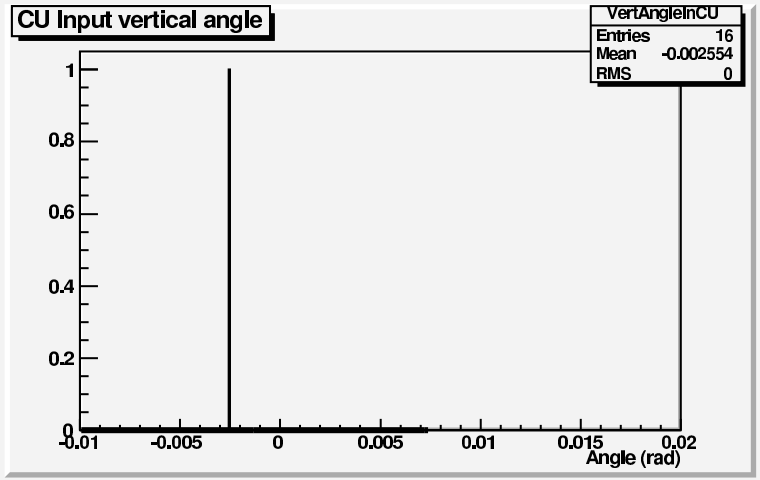

CU Input Beam Spot
SpotCoordInCU
Entries 148
Mean x 41.7
Mean y -6.448
RMS x 8.415
RMS y 15.13
Vertical Position (mm)
Horizontal Position (mm)

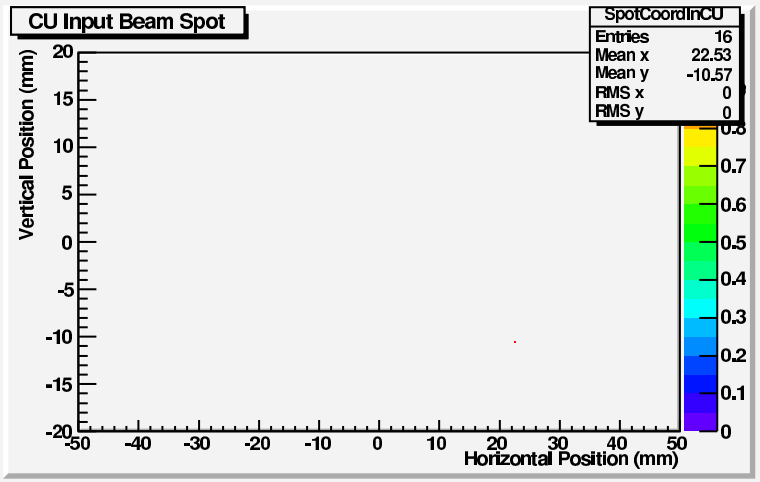

CU Input Beam Spot
SpotAngleInCU
Entries 148
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

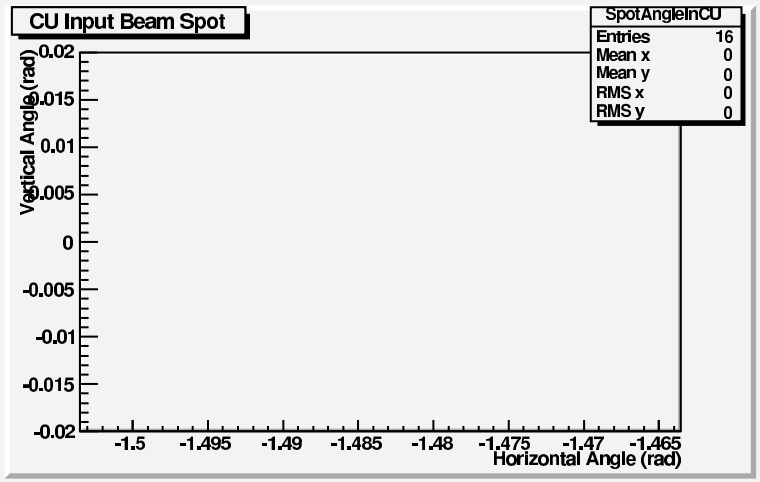

CU Input Horizontal coordinate
HorCoordInCU
Entries 16
Mean 22.53
RMS 0
Position (mm)

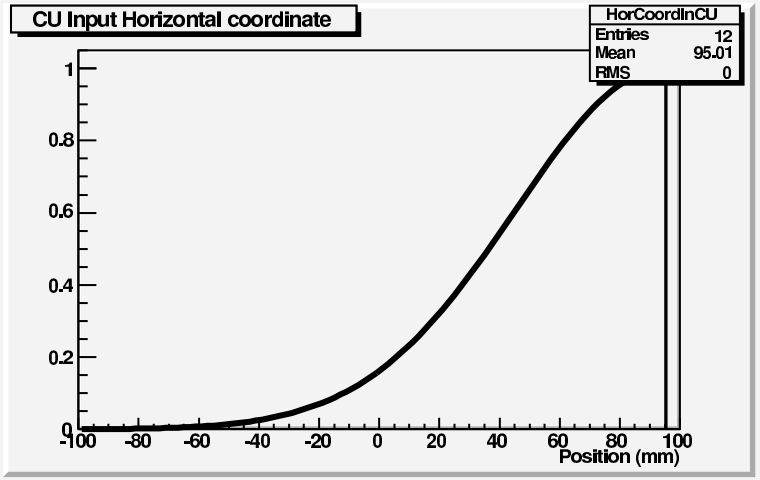

CU Input vertical coordinate
VertCoordInCU
Entries 16
Mean 9.39
RMS 23.86
Position (mm)

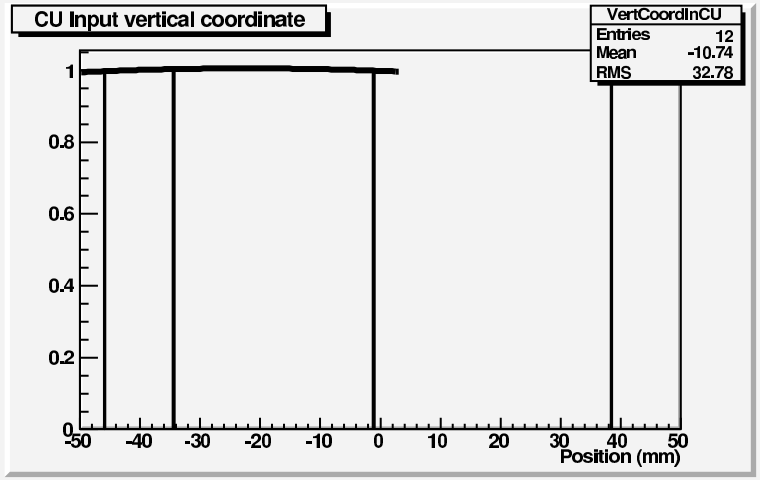

CU Input horizontal angle
HorAngleInCU
Entries 16
Mean 0
RMS 0
Angle (rad)

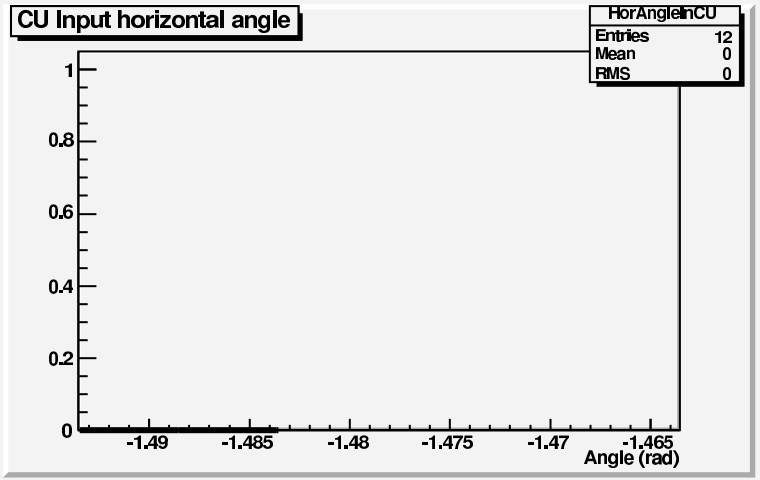

CU Input vertical angle
VertAngleInCU
Entries 16
Mean -0.002554
RMS 0
Angle (rad)

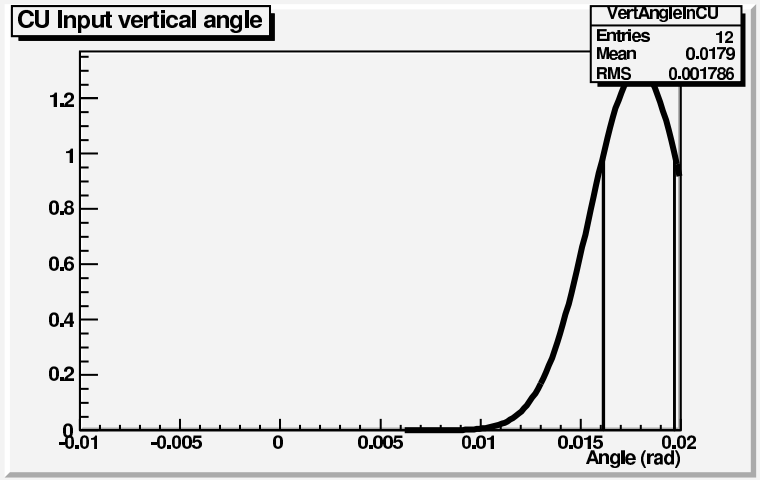

CU Input Beam Spot
SpotCoordInCU
Entries 16
Mean x 22.53
Mean y -10.57
RMS x 0
RMS y 0
Vertical Position (mm)
Horizontal Position (mm)

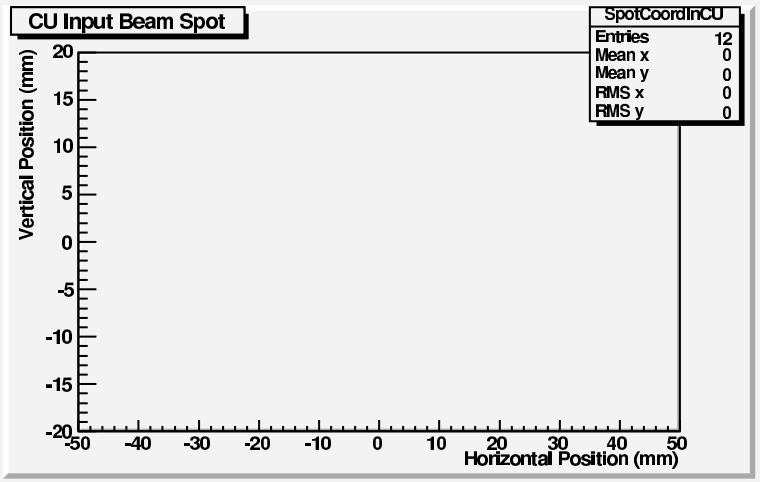

CU Input Beam Spot
SpotAngleInCU
Entries 16
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

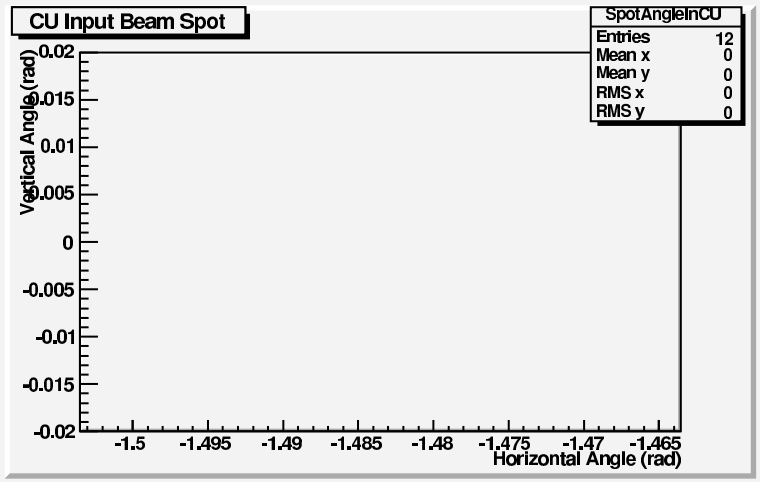

CU Input Horizontal coordinate
HorCoordInCU
Entries 12
Mean 95.01
RMS 0
Position (mm)

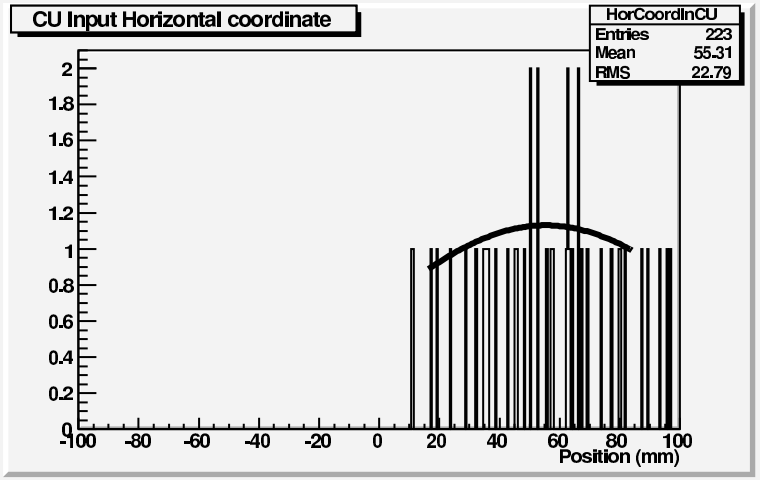

CU Input vertical coordinate
VertCoordInCU
Entries 12
Mean -10.74
RMS 32.78
Position (mm)

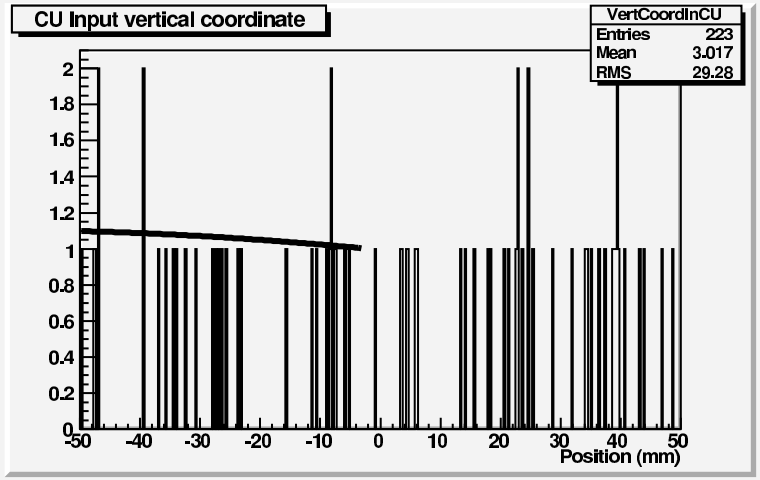

CU Input horizontal angle
HorAngleInCU
Entries 12
Mean 0
RMS 0
Angle (rad)

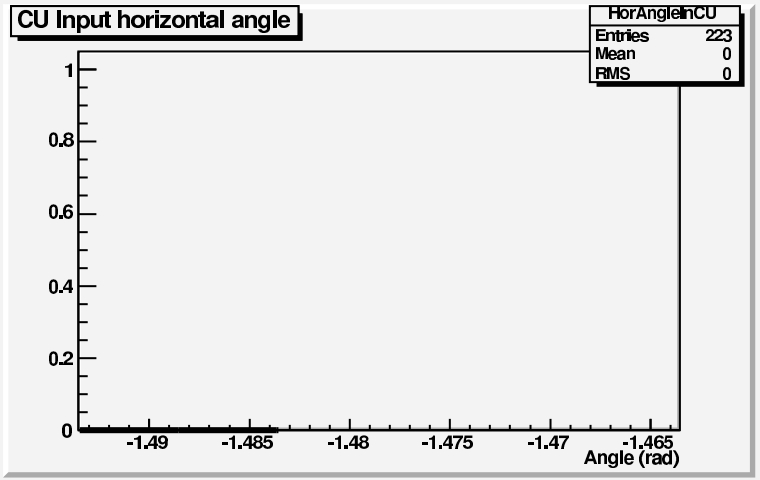

CU Input vertical angle
VertAngleInCU
Entries 12
Mean 0.0179
RMS 0.001786
Angle (rad)

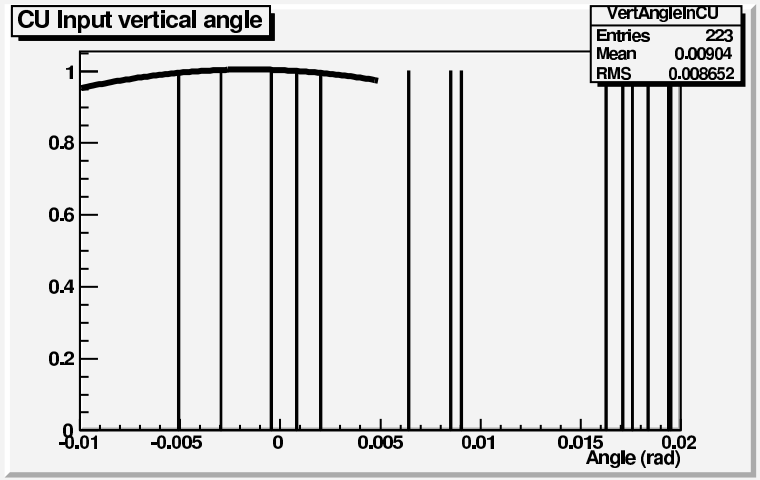

CU Input Beam Spot
SpotCoordInCU
Entries 12
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Position (mm)
Horizontal Position (mm)

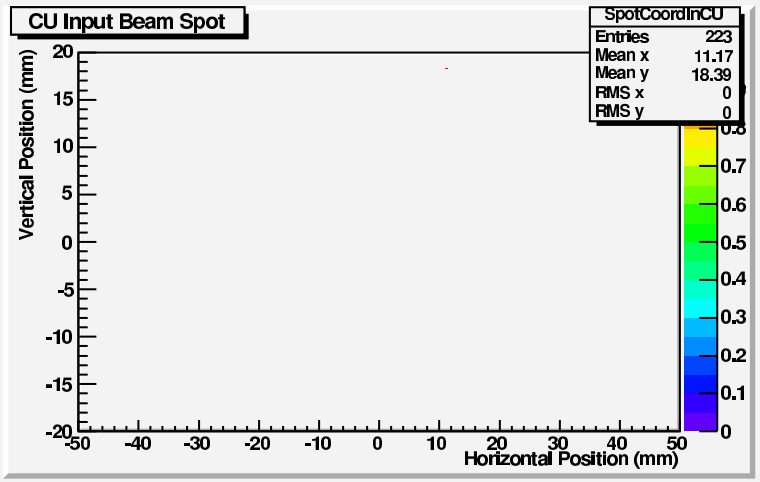

CU Input Beam Spot
SpotAngleInCU
Entries 12
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

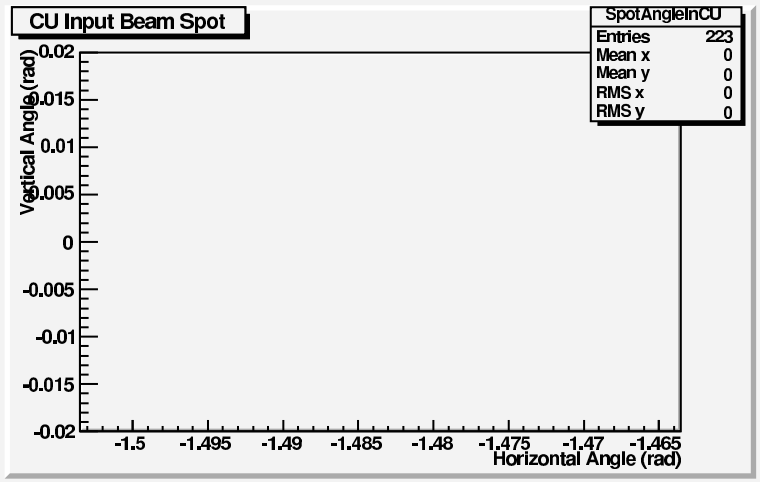

CU Input Horizontal coordinate
HorCoordInCU
Entries 223
Mean 55.31
RMS 22.79
Position (mm)

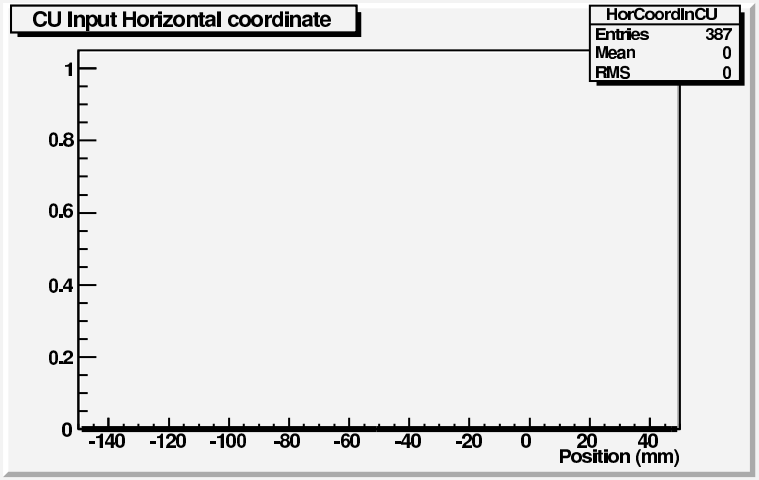

CU Input vertical coordinate
VertCoordInCU
Entries 223
Mean 3.017
RMS 29.28
Position (mm)

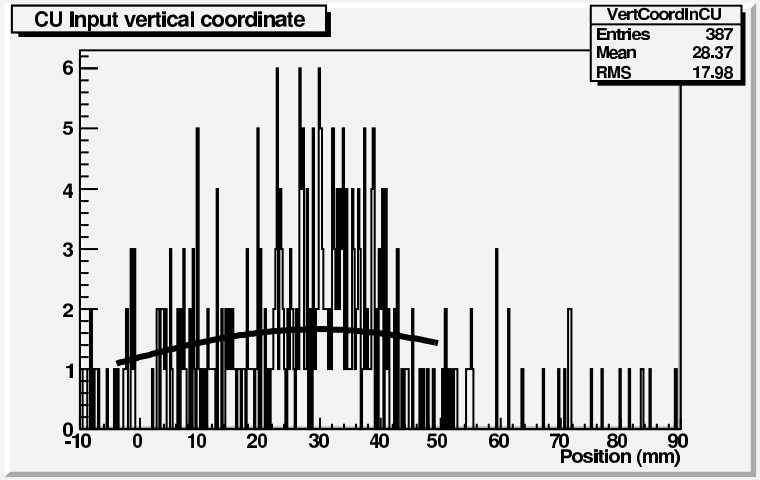

CU Input horizontal angle
HorAngleInCU
Entries 223
Mean 0
RMS 0
Angle (rad)

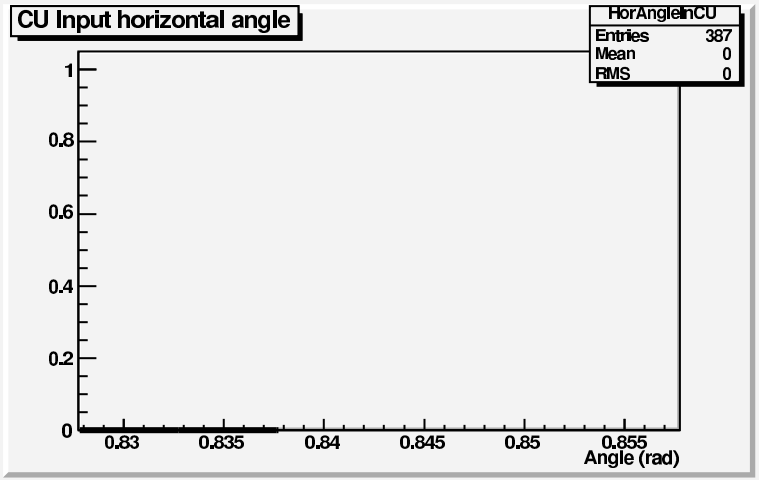

CU Input vertical angle
VertAngleInCU
Entries 223
Mean 0.00904
RMS 0.008652
Angle (rad)

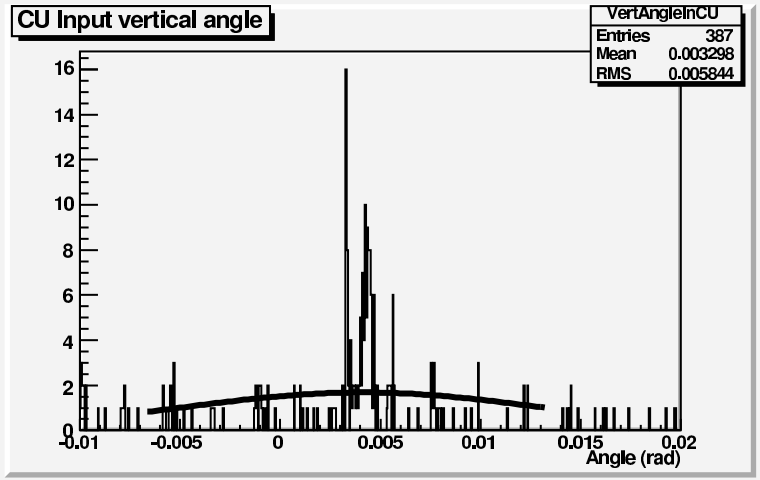

CU Input Beam Spot
SpotCoordInCU
Entries 223
Mean x 11.17
Mean y 18.39
RMS x 0
RMS y 0
Vertical Position (mm)
Horizontal Position (mm)

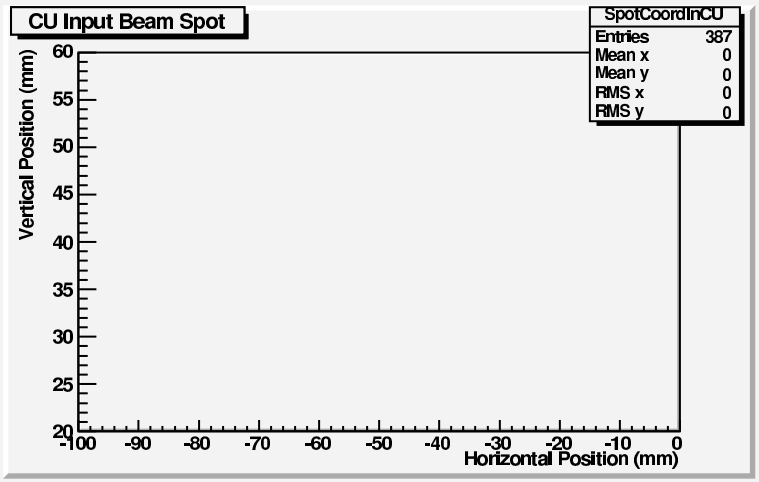

CU Input Beam Spot
SpotAngleInCU
Entries 223
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

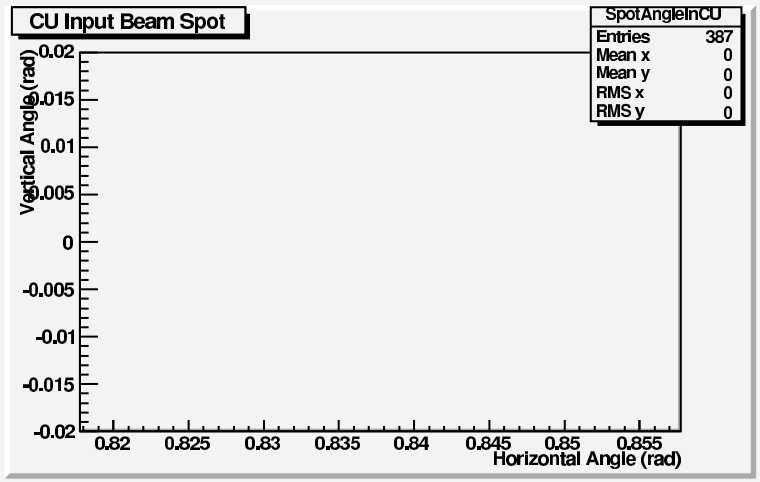

CU Input Horizontal coordinate
HorCoordInCU
Entries 387
Mean 0
RMS 0
Position (mm)

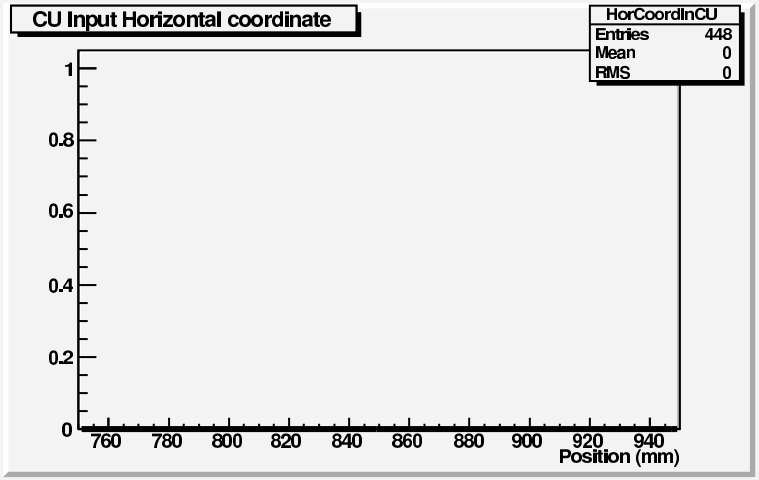

CU Input vertical coordinate
VertCoordInCU
Entries 387
Mean 28.37
RMS 17.98
Position (mm)

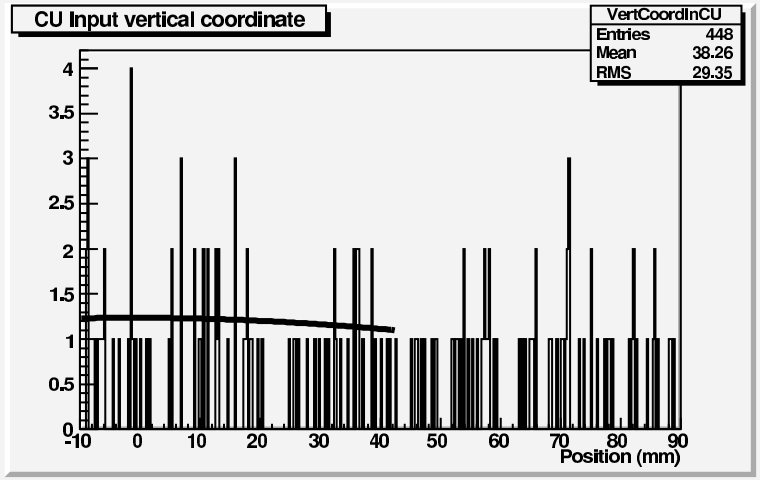

CU Input horizontal angle
HorAngleInCU
Entries 387
Mean 0
RMS 0
Angle (rad)

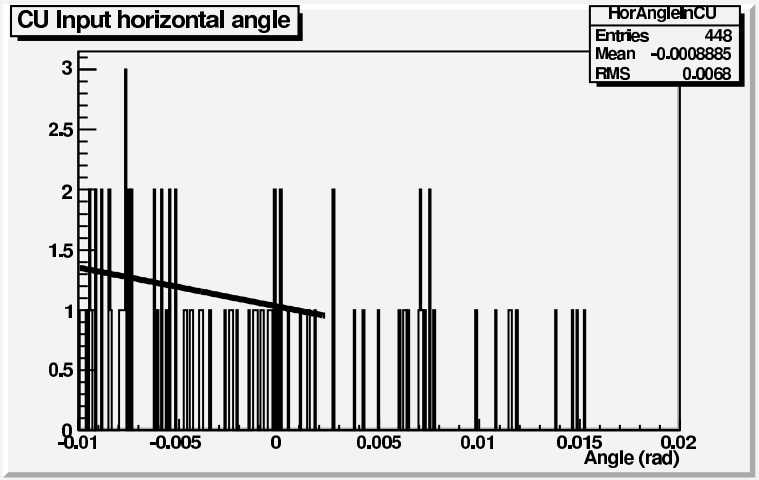

CU Input vertical angle
VertAngleInCU
Entries 387
Mean 0.003298
RMS 0.005844
Angle (rad)

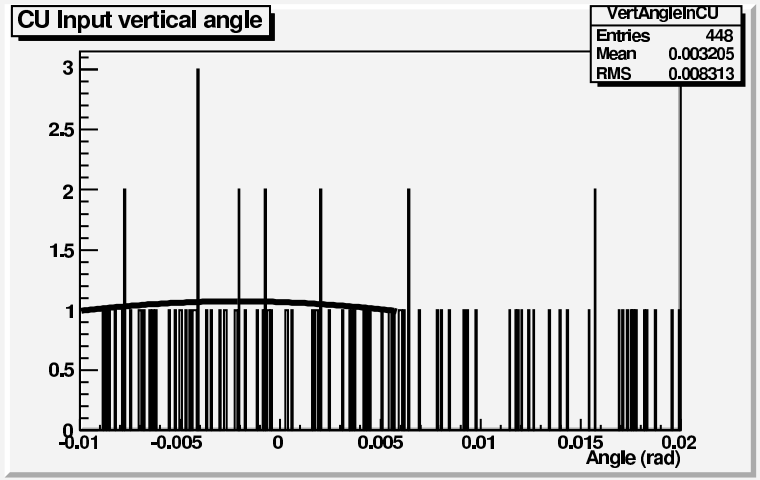

CU Input Beam Spot
SpotCoordInCU
Entries 387
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Position (mm)
Horizontal Position (mm)

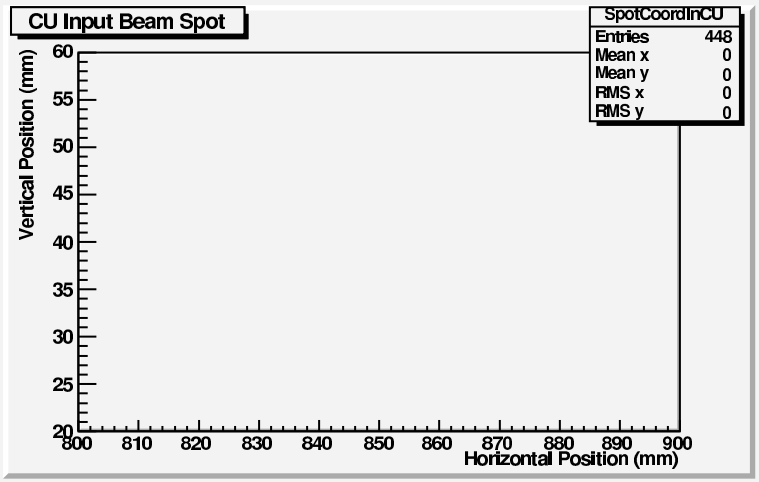

CU Input Beam Spot
SpotAngleInCU
Entries 387
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

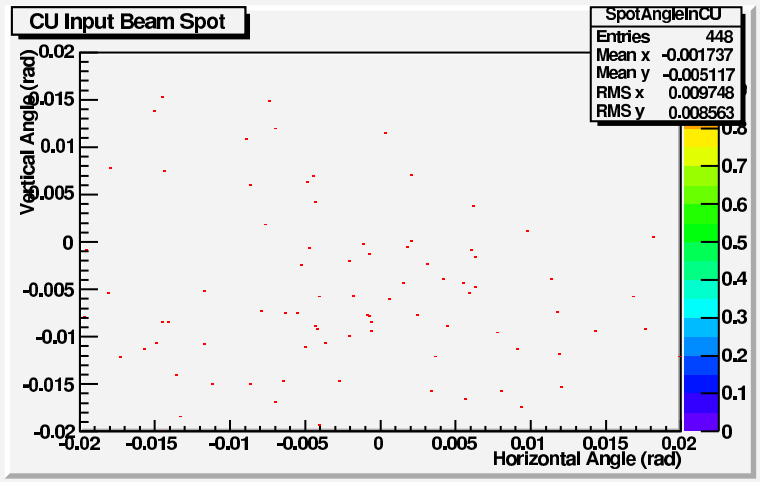

CU Input Horizontal coordinate
HorCoordInCU
Entries 448
Mean 0
RMS 0
Position (mm)

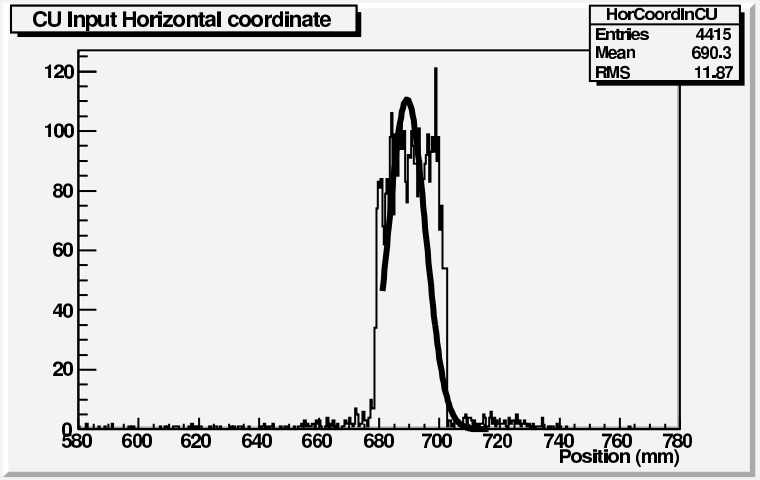

CU Input vertical coordinate
VertCoordInCU
Entries 448
Mean 38.26
RMS 29.35
Position (mm)

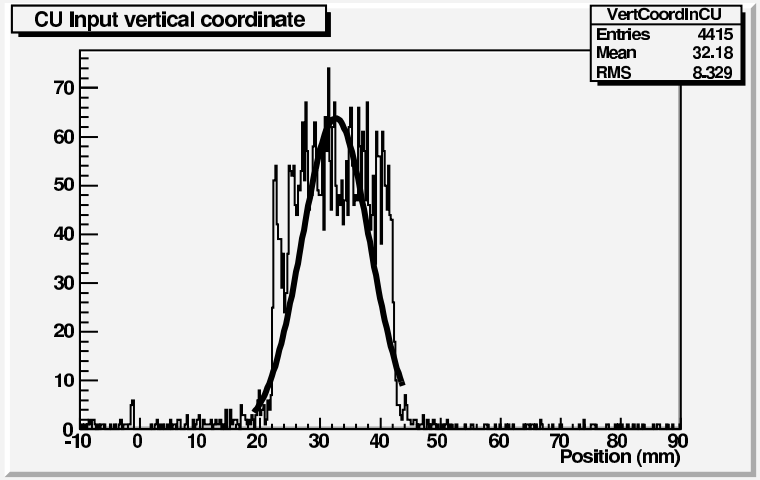

CU Input horizontal angle
HorAngleInCU
Entries 448
Mean -0.0008885
RMS 0.0068
Angle (rad)

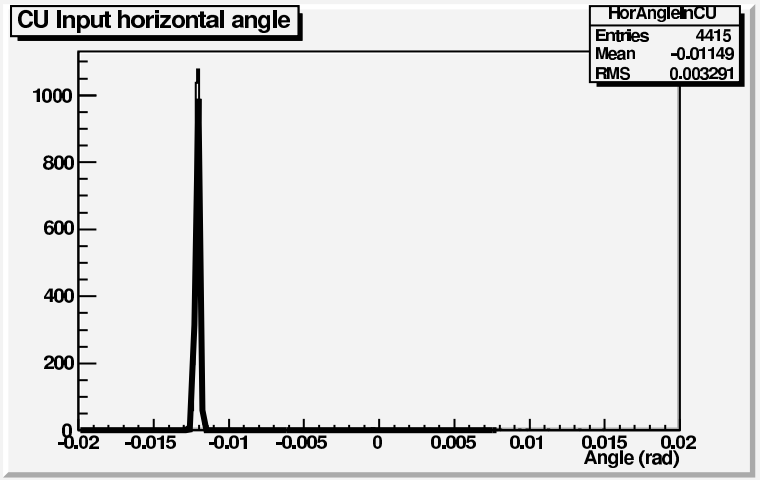

CU Input vertical angle
VertAngleInCU
Entries 448
Mean 0.003205
RMS 0.008313
Angle (rad)

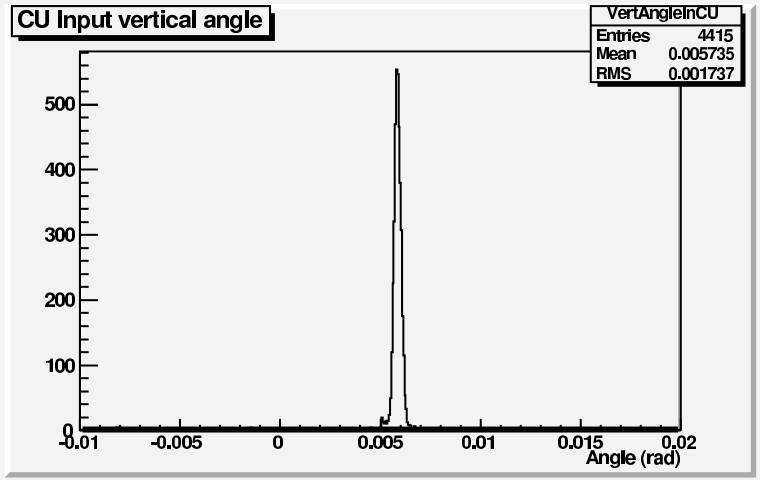

CU Input Beam Spot
SpotCoordInCU
Entries 448
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Position (mm)
Horizontal Position (mm)

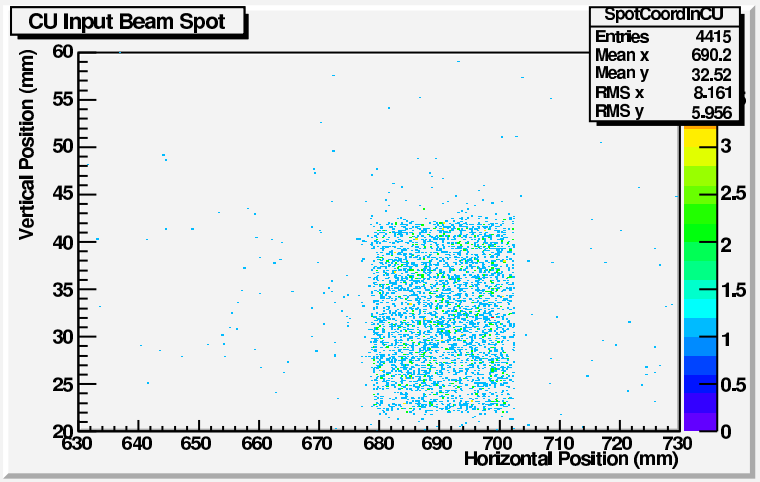

CU Input Beam Spot
SpotAngleInCU
Entries 448
Mean x -0.001737
Mean y -0.005117
RMS x 0.009748
RMS y 0.008563
Vertical Angle (rad)
Horizontal Angle (rad)

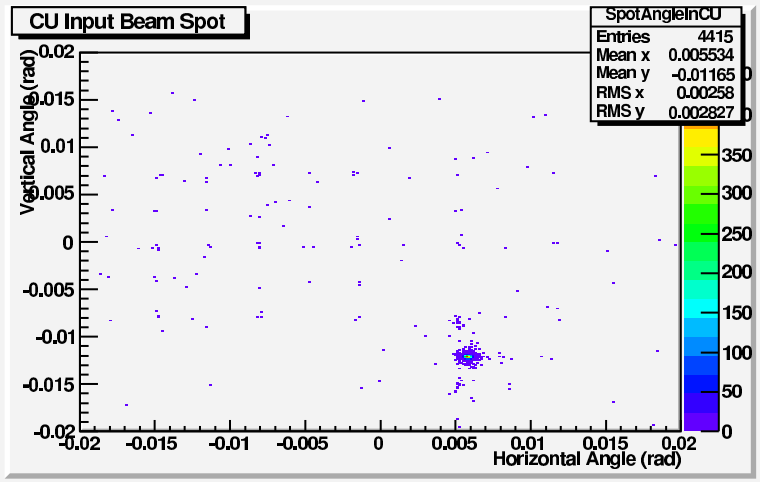

CU Input Horizontal coordinate
HorCoordInCU
Entries 4415
Mean 690.3
RMS 11.87
Position (mm)

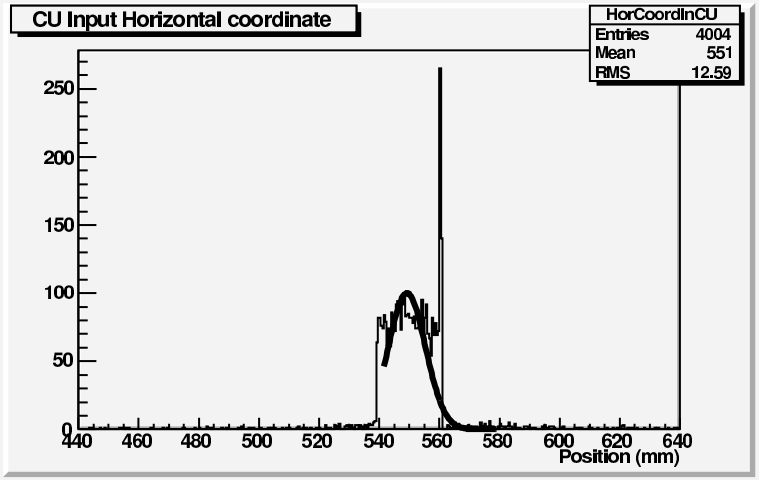

CU Input vertical coordinate
VertCoordInCU
Entries 4415
Mean 32.18
RMS 8.329
Position (mm)

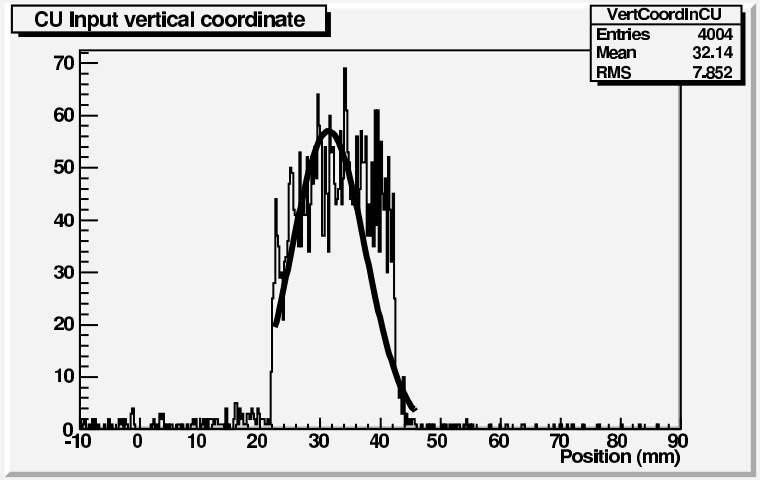

CU Input horizontal angle
HorAngleInCU
Entries 4415
Mean -0.01149
RMS 0.003291
Angle (rad)

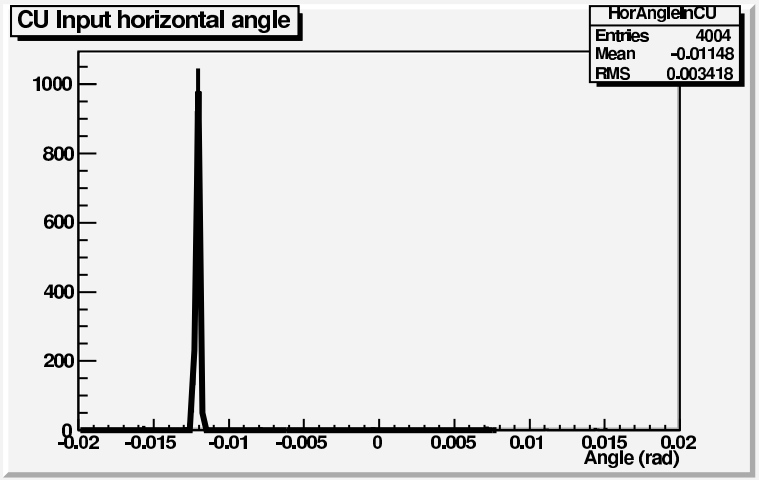

CU Input vertical angle
VertAngleInCU
Entries 4415
Mean 0.005735
RMS 0.001737
Angle (rad)

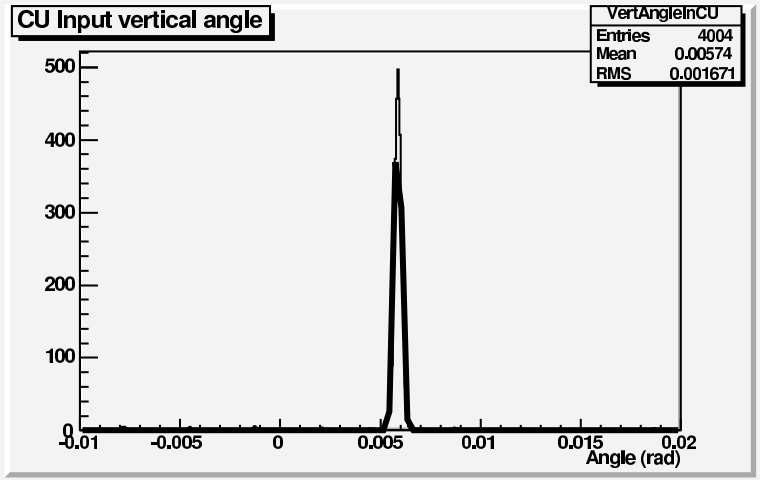

CU Input Beam Spot
SpotCoordInCU
Entries 4415
Mean x 690.2
Mean y 32.52
RMS x 8.161
RMS y 5.956
Vertical Position (mm)
Horizontal Position (mm)

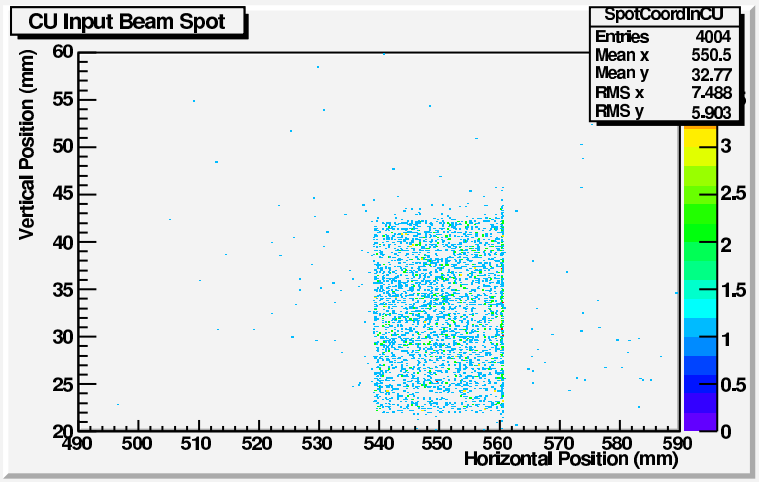

CU Input Beam Spot
SpotAngleInCU
Entries 4415
Mean x 0.005534
Mean y -0.01165
RMS x 0.00258
RMS y 0.002827
Vertical Angle (rad)
Horizontal Angle (rad)

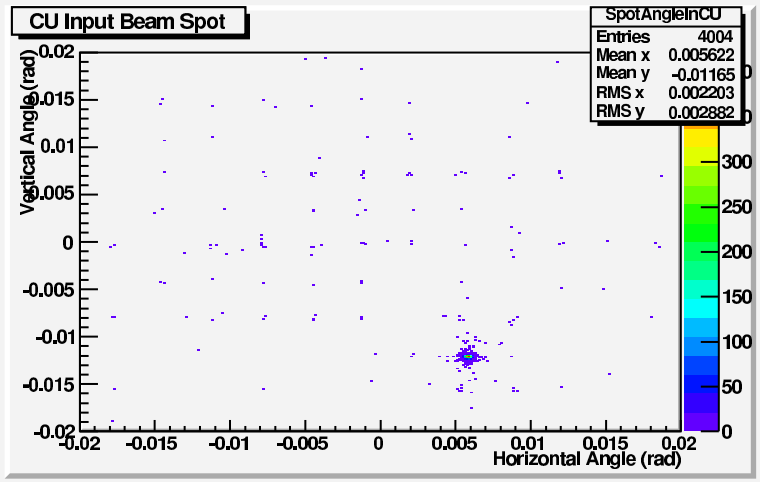

CU Input Horizontal coordinate
HorCoordInCU
Entries 4004
Mean 551
RMS 12.59
Position (mm)

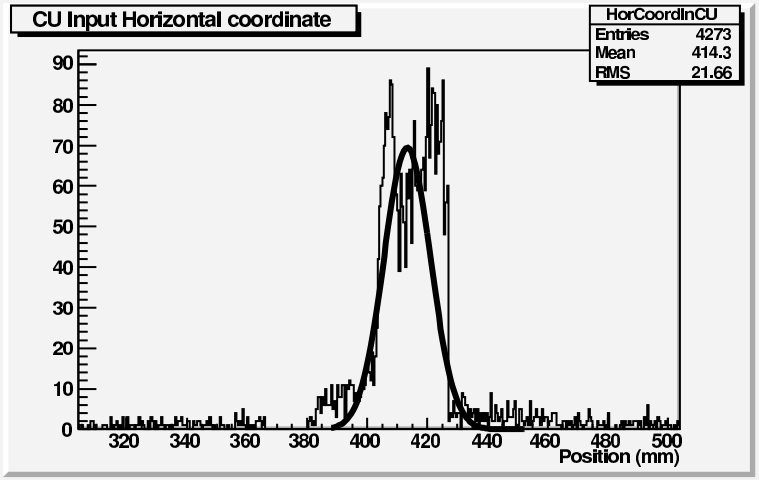

CU Input vertical coordinate
VertCoordInCU
Entries 4004
Mean 32.14
RMS 7.852
Position (mm)

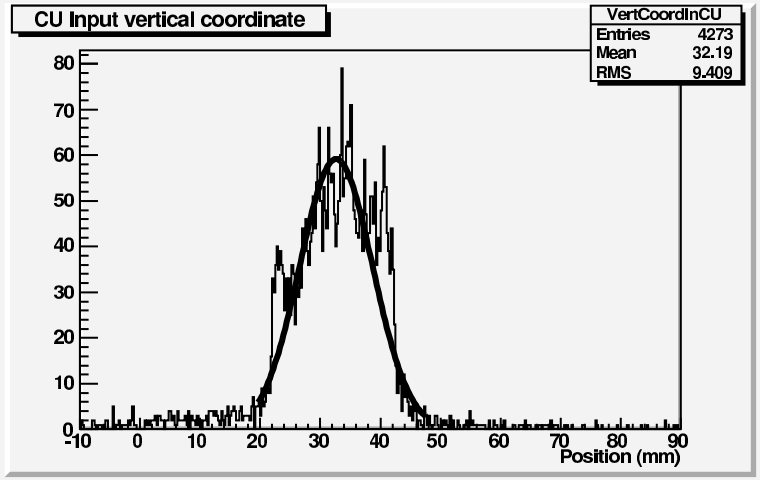

CU Input horizontal angle
HorAngleInCU
Entries 4004
Mean -0.01148
RMS 0.003418
Angle (rad)

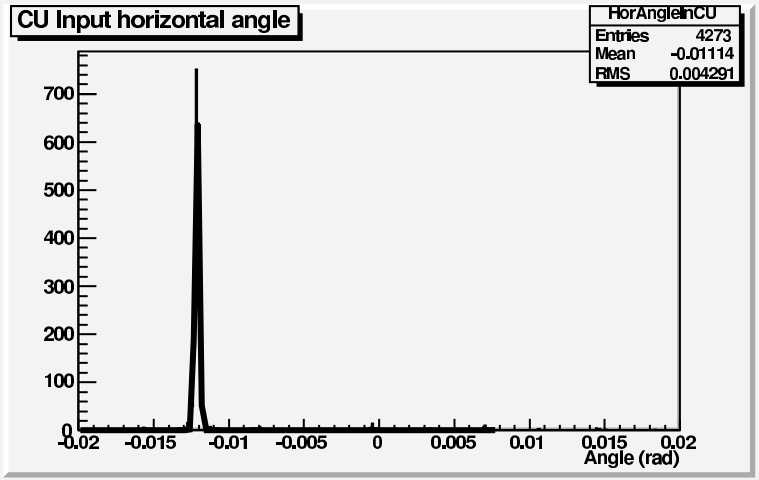

CU Input vertical angle
VertAngleInCU
Entries 4004
Mean 0.00574
RMS 0.001671
Angle (rad)

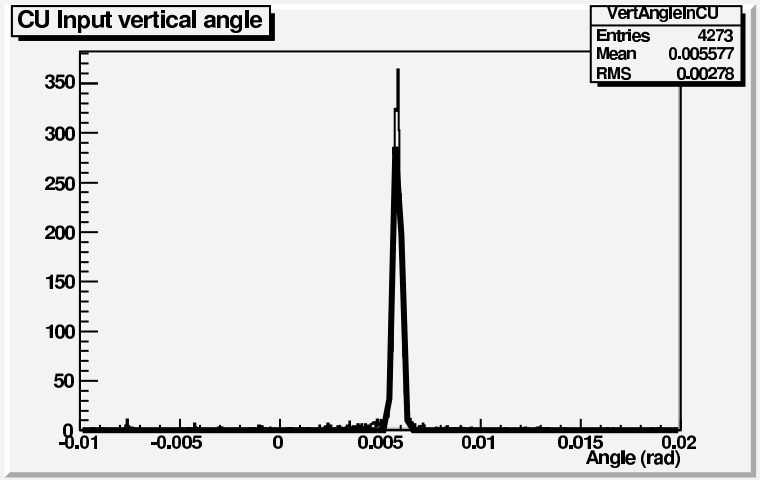

CU Input Beam Spot
SpotCoordInCU
Entries 4004
Mean x 550.5
Mean y 32.77
RMS x 7.488
RMS y 5.903
Vertical Position (mm)
Horizontal Position (mm)

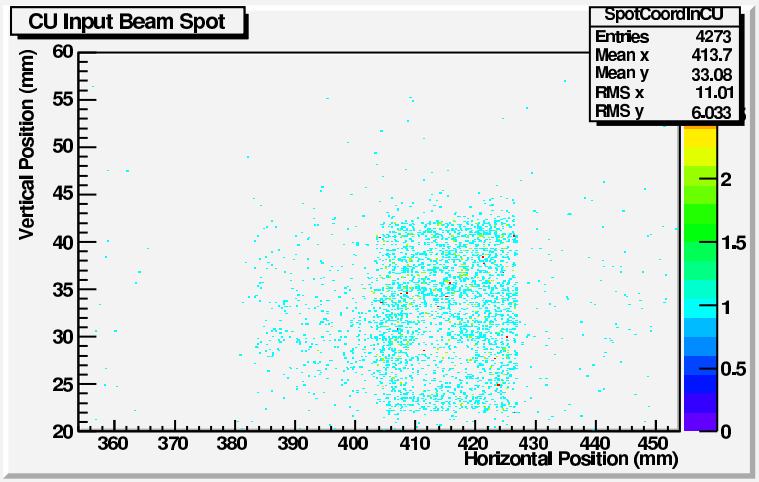

CU Input Beam Spot
SpotAngleInCU
Entries 4004
Mean x 0.005622
Mean y -0.01165
RMS x 0.002203
RMS y 0.002882
Vertical Angle (rad)
Horizontal Angle (rad)

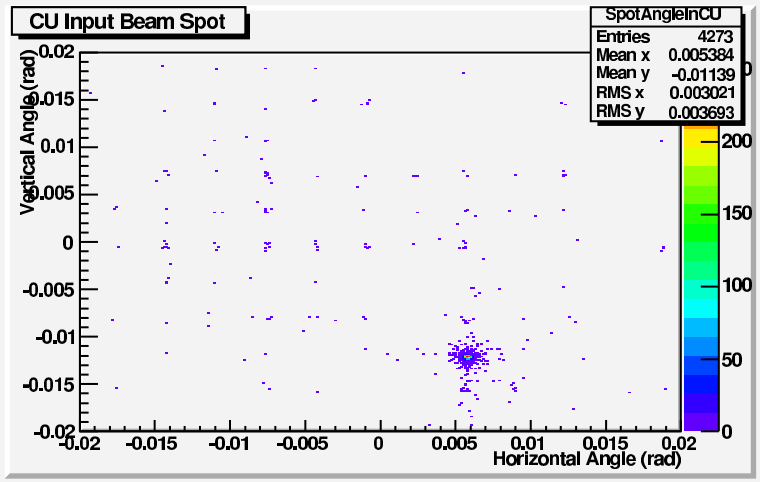

CU Input Horizontal coordinate
HorCoordInCU
Entries 4273
Mean 414.3
RMS 21.66
Position (mm)

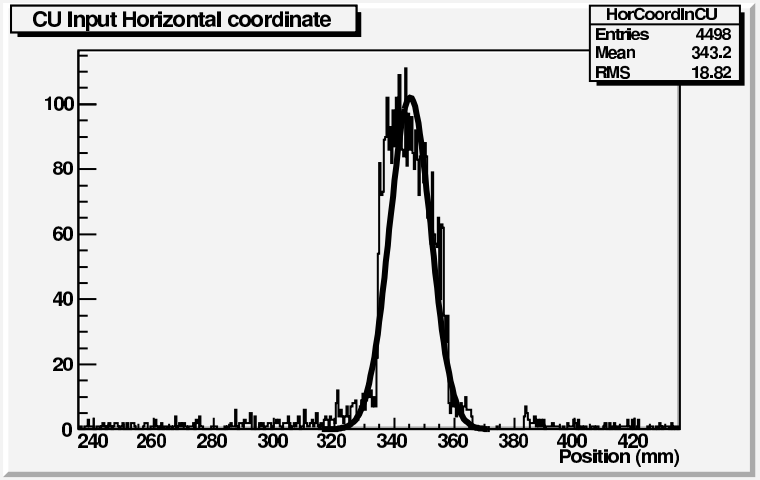

CU Input vertical coordinate
VertCoordInCU
Entries 4273
Mean 32.19
RMS 9.409
Position (mm)

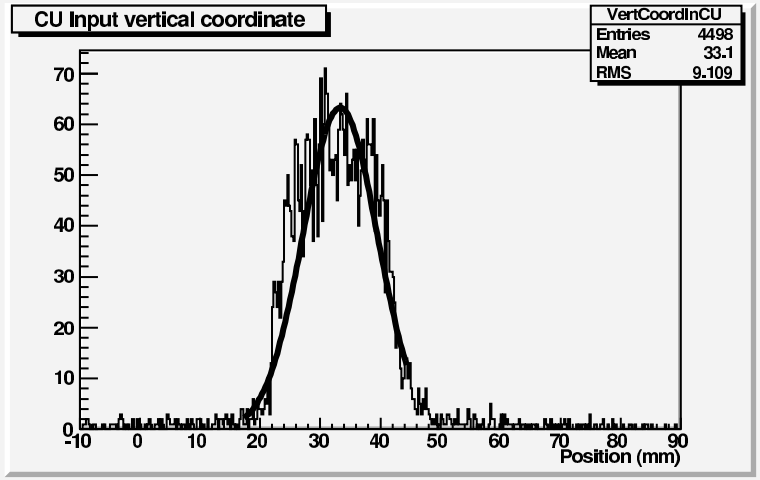

CU Input horizontal angle
HorAngleInCU
Entries 4273
Mean -0.01114
RMS 0.004291
Angle (rad)

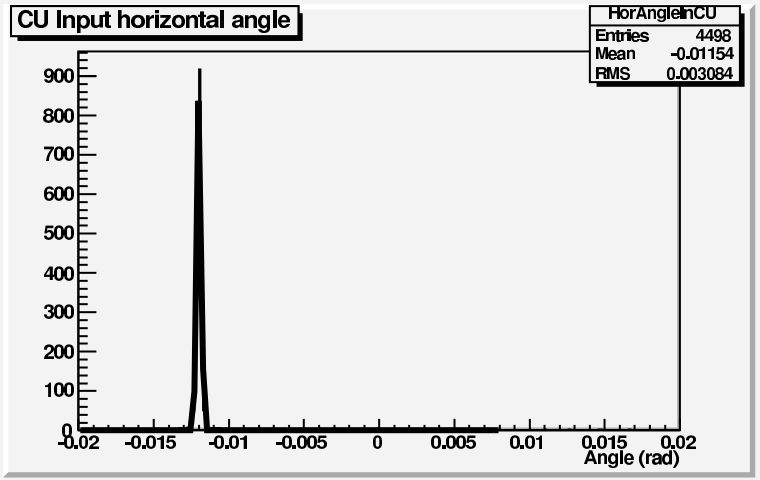

CU Input vertical angle
VertAngleInCU
Entries 4273
Mean 0.005577
RMS 0.00278
Angle (rad)

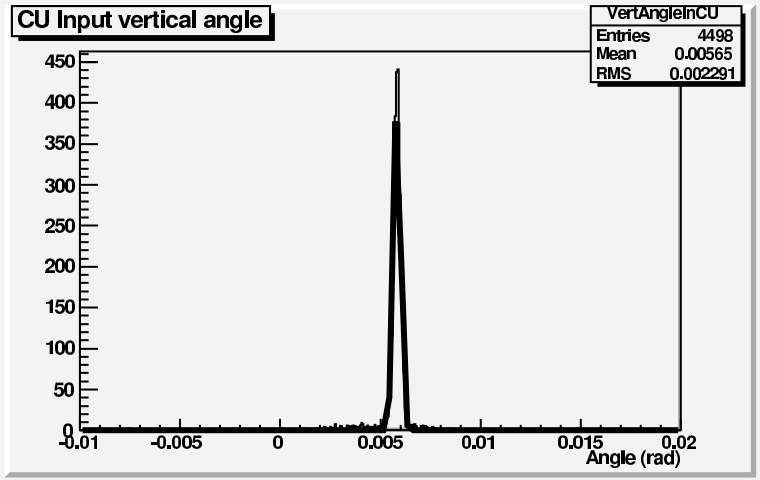

CU Input Beam Spot
SpotCoordInCU
Entries 4273
Mean x 413.7
Mean y 33.08
RMS x 11.01
RMS y 6.033
Vertical Position (mm)
Horizontal Position (mm)

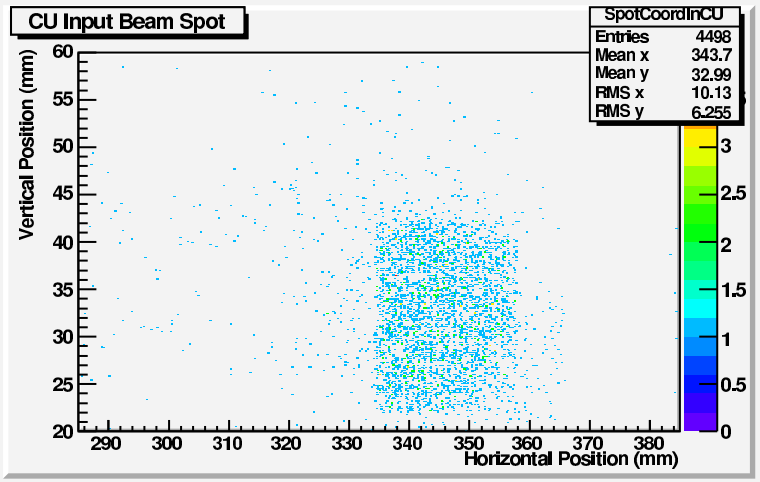

CU Input Beam Spot
SpotAngleInCU
Entries 4273
Mean x 0.005384
Mean y -0.01139
RMS x 0.003021
RMS y 0.003693
Vertical Angle (rad)
Horizontal Angle (rad)

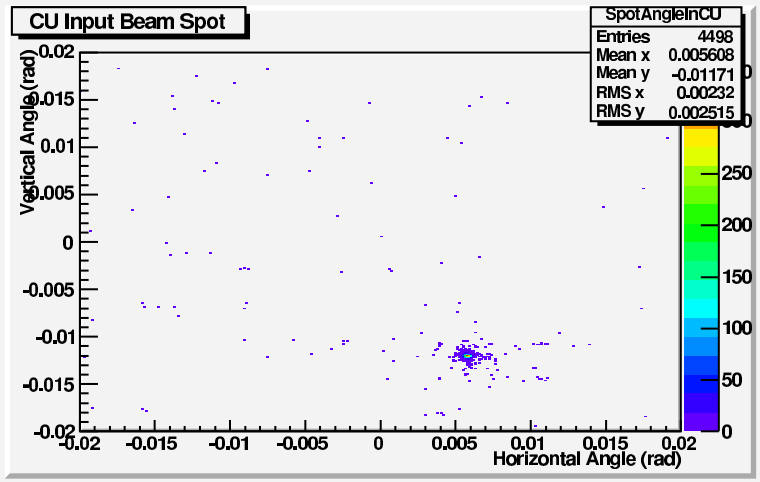

CU Input Horizontal coordinate
HorCoordInCU
Entries 4498
Mean 343.2
RMS 18.82
Position (mm)

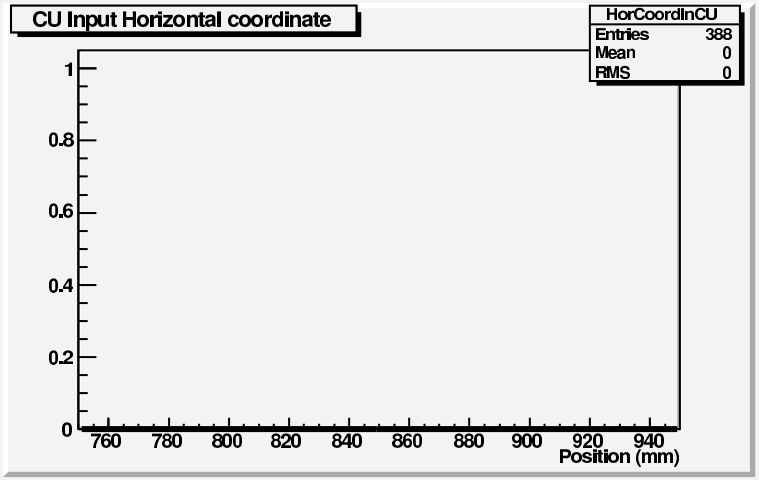

CU Input vertical coordinate
VertCoordInCU
Entries 4498
Mean 33.1
RMS 9.109
Position (mm)

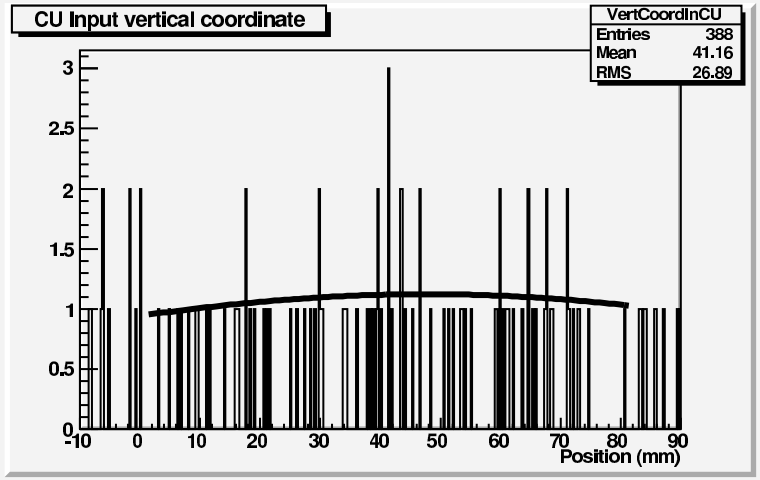

CU Input horizontal angle
HorAngleInCU
Entries 4498
Mean -0.01154
RMS 0.003084
Angle (rad)

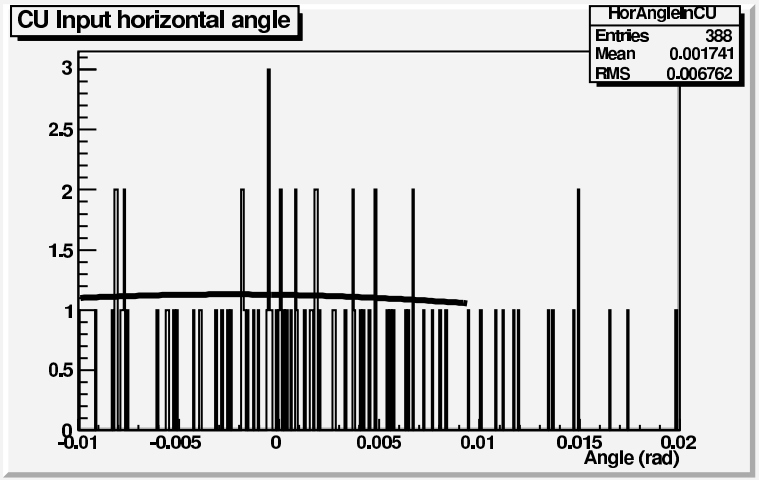

CU Input vertical angle
VertAngleInCU
Entries 4498
Mean 0.00565
RMS 0.002291
Angle (rad)

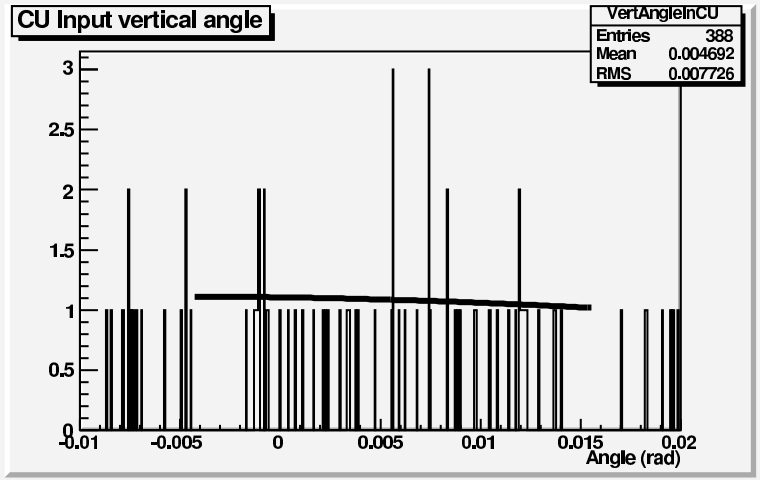

CU Input Beam Spot
SpotCoordInCU
Entries 4498
Mean x 343.7
Mean y 32.99
RMS x 10.13
RMS y 6.255
Vertical Position (mm)
Horizontal Position (mm)

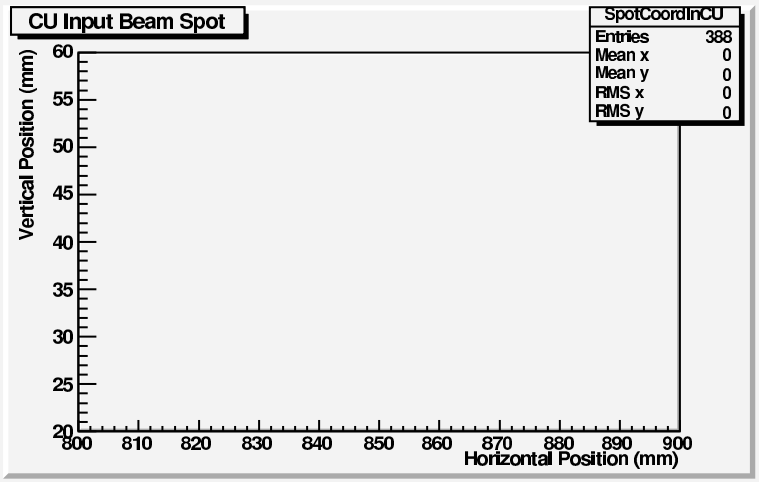

CU Input Beam Spot
SpotAngleInCU
Entries 4498
Mean x 0.005608
Mean y -0.01171
RMS x 0.00232
RMS y 0.002515
Vertical Angle (rad)
Horizontal Angle (rad)

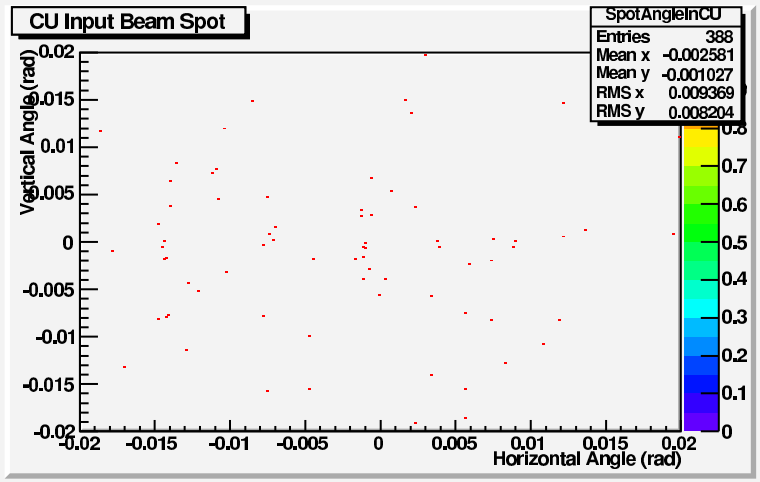

CU Input Horizontal coordinate
HorCoordInCU
Entries 388
Mean 0
RMS 0
Position (mm)

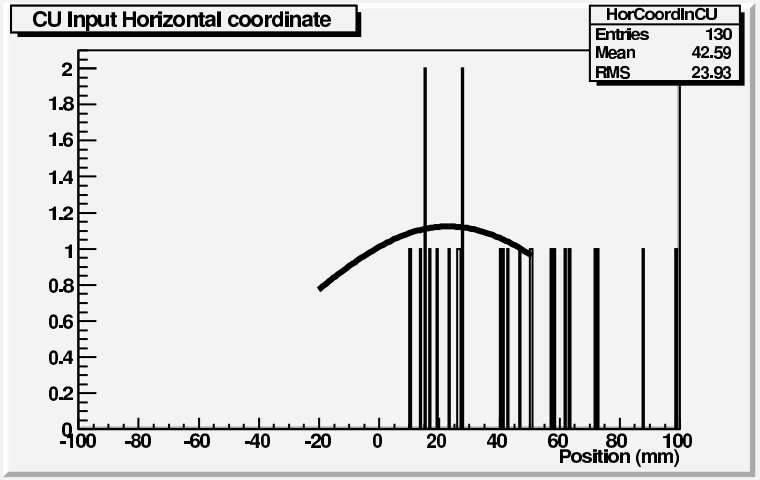

CU Input vertical coordinate
VertCoordInCU
Entries 388
Mean 41.16
RMS 26.89
Position (mm)

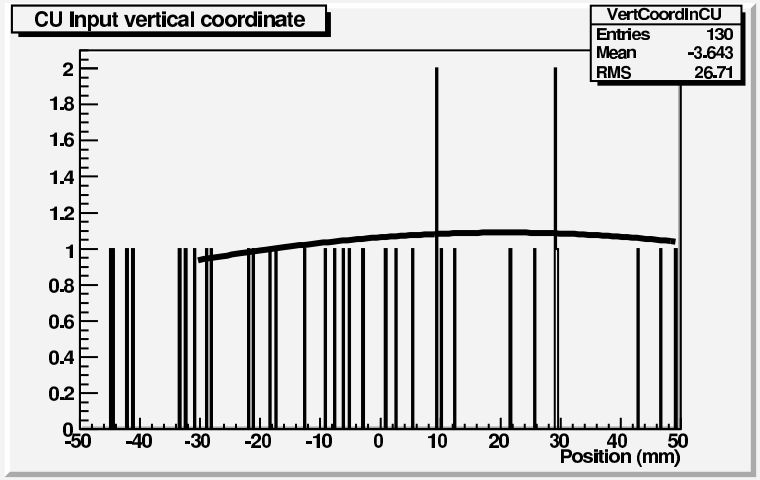

CU Input horizontal angle
HorAngleInCU
Entries 388
Mean 0.001741
RMS 0.006762
Angle (rad)

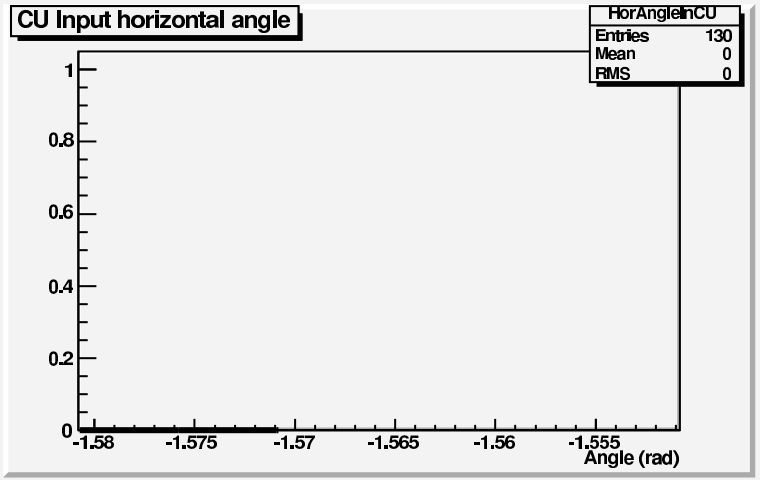

CU Input vertical angle
VertAngleInCU
Entries 388
Mean 0.004692
RMS 0.007726
Angle (rad)

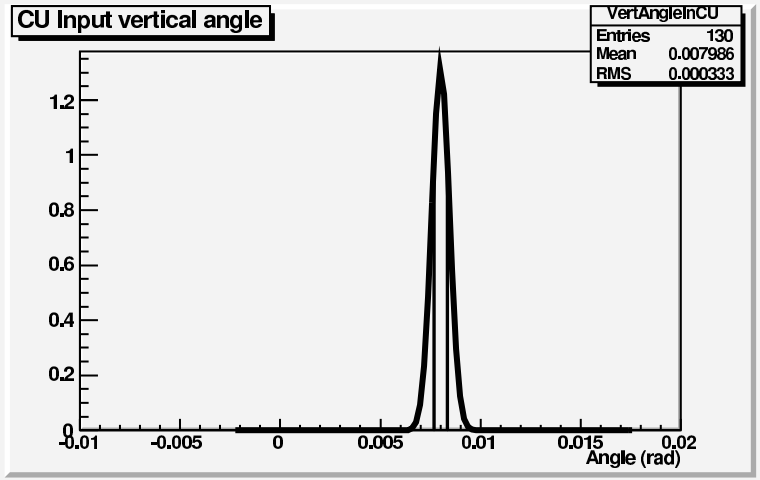

CU Input Beam Spot
SpotCoordInCU
Entries 388
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Position (mm)
Horizontal Position (mm)

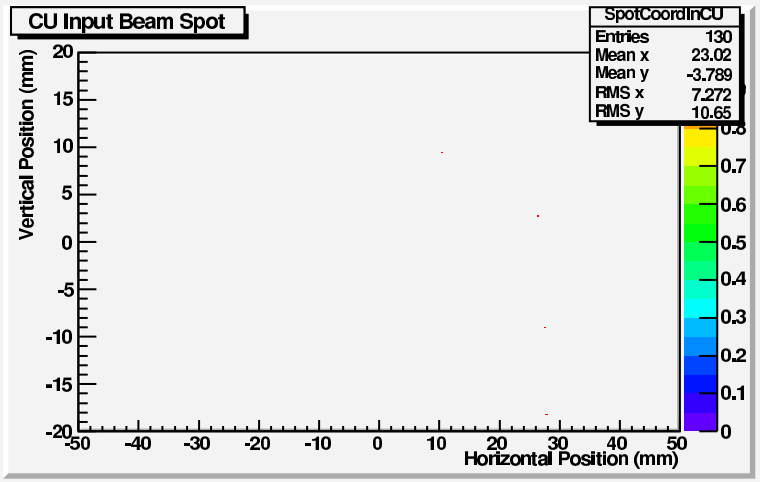

CU Input Beam Spot
SpotAngleInCU
Entries 388
Mean x -0.002581
Mean y -0.001027
RMS x 0.009369
RMS y 0.008204
Vertical Angle (rad)
Horizontal Angle (rad)

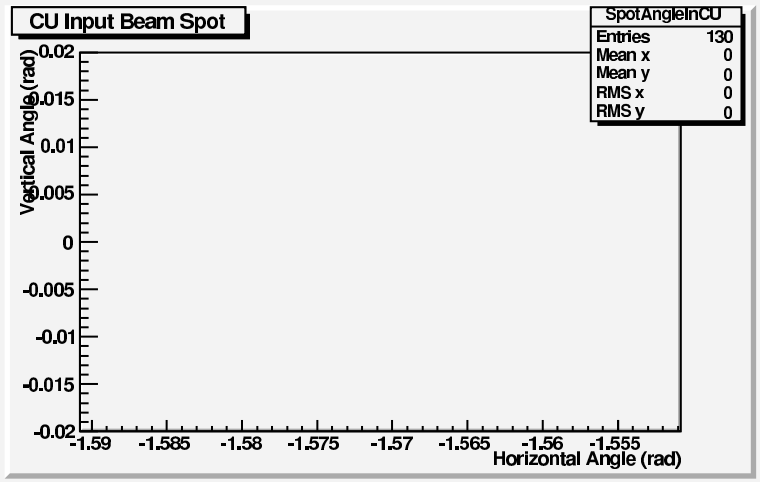

CU Input Horizontal coordinate
HorCoordInCU
Entries 130
Mean 42.59
RMS 23.93
Position (mm)

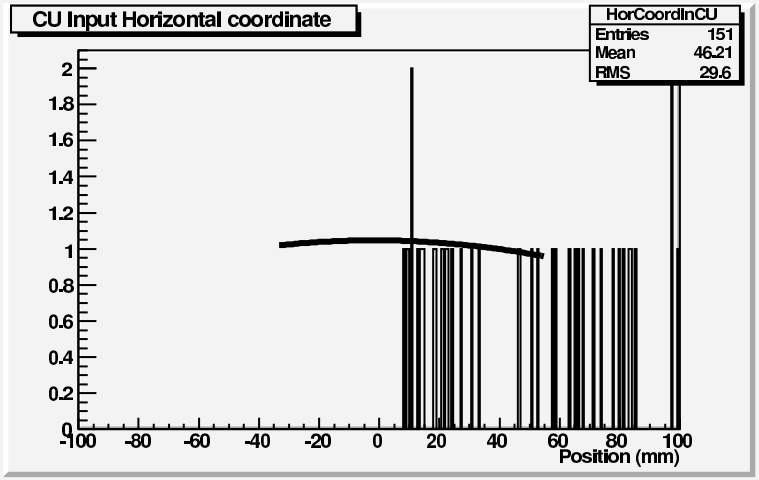

CU Input vertical coordinate
VertCoordInCU
Entries 130
Mean -3.643
RMS 26.71
Position (mm)

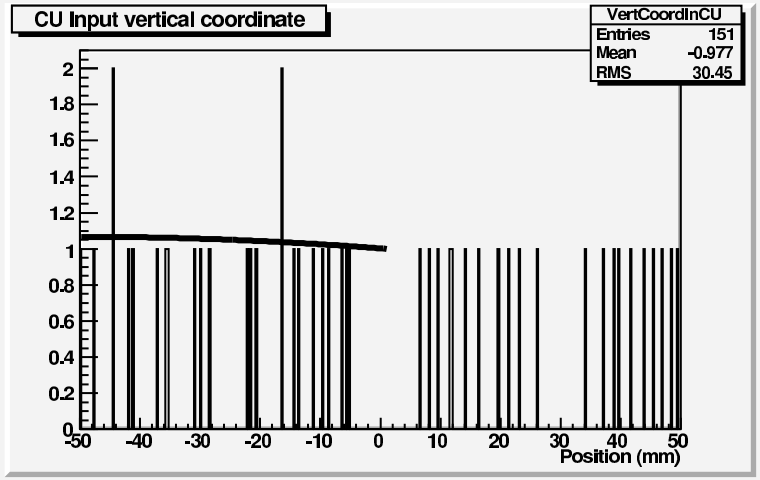

CU Input horizontal angle
HorAngleInCU
Entries 130
Mean 0
RMS 0
Angle (rad)

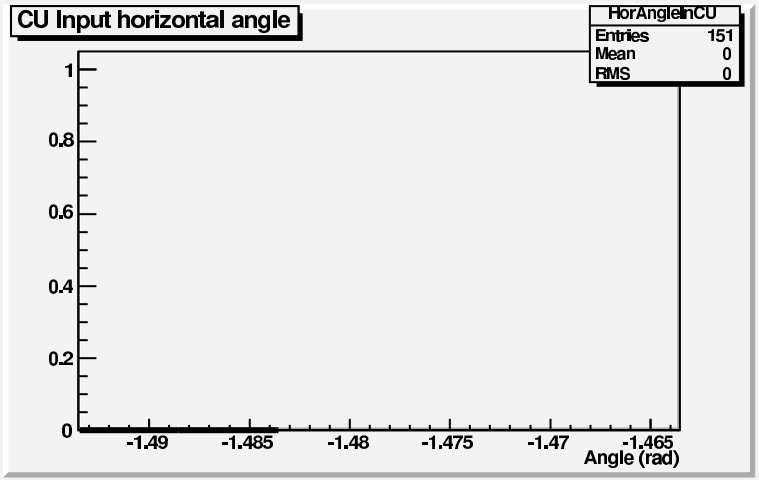

CU Input vertical angle
VertAngleInCU
Entries 130
Mean 0.007986
RMS 0.000333
Angle (rad)

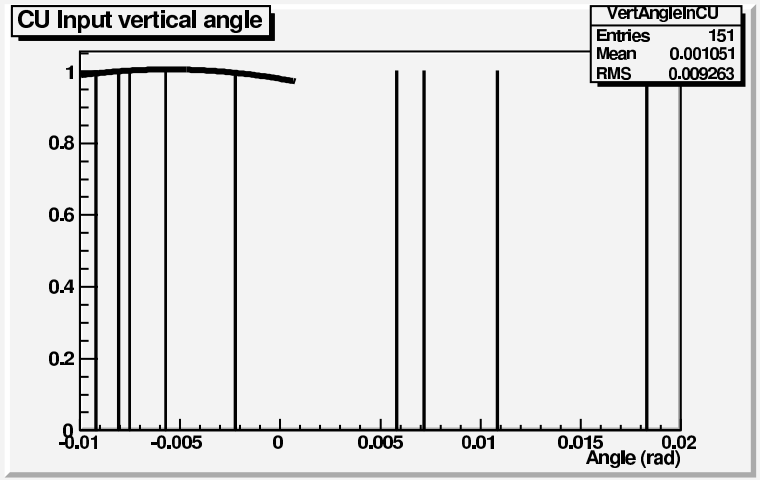

CU Input Beam Spot
SpotCoordInCU
Entries 130
Mean x 23.02
Mean y -3.789
RMS x 7.272
RMS y 10.65
Vertical Position (mm)
Horizontal Position (mm)

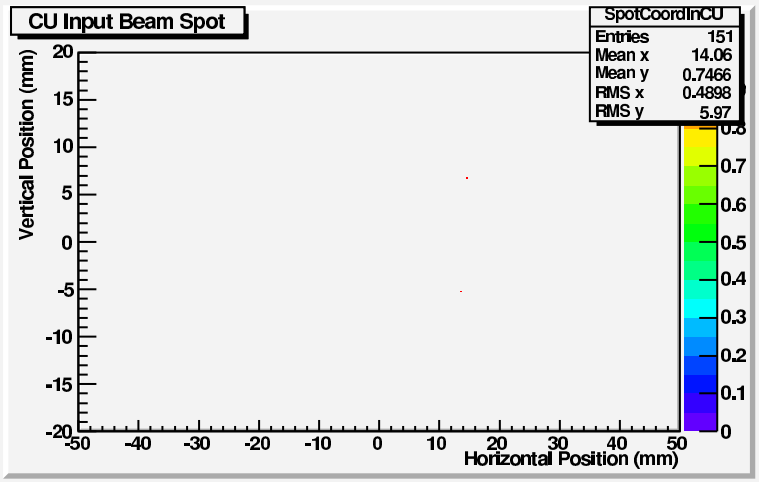

CU Input Beam Spot
SpotAngleInCU
Entries 130
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

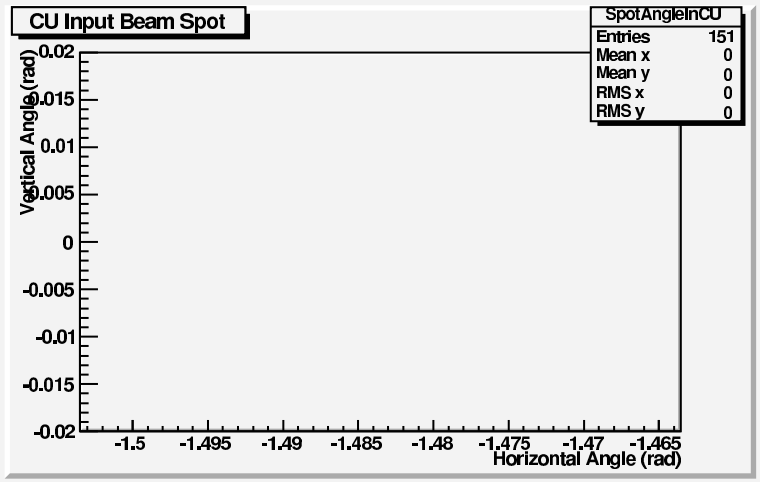

CU Input Horizontal coordinate
HorCoordInCU
Entries 151
Mean 46.21
RMS 29.6
Position (mm)

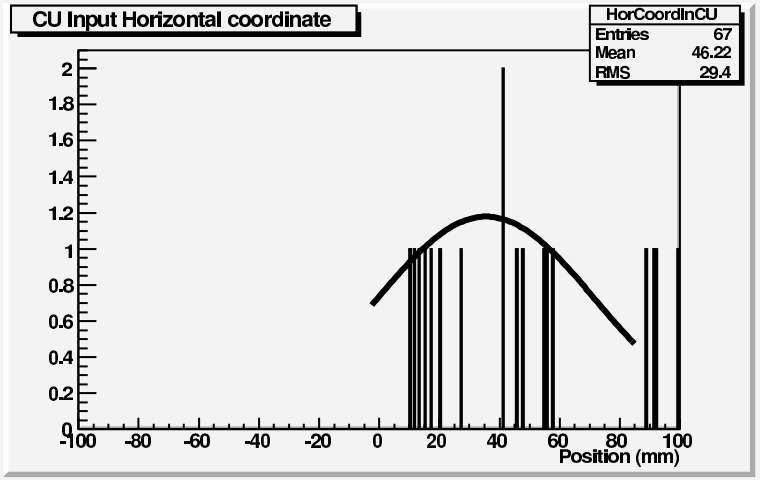

CU Input vertical coordinate
VertCoordInCU
Entries 151
Mean -0.977
RMS 30.45
Position (mm)

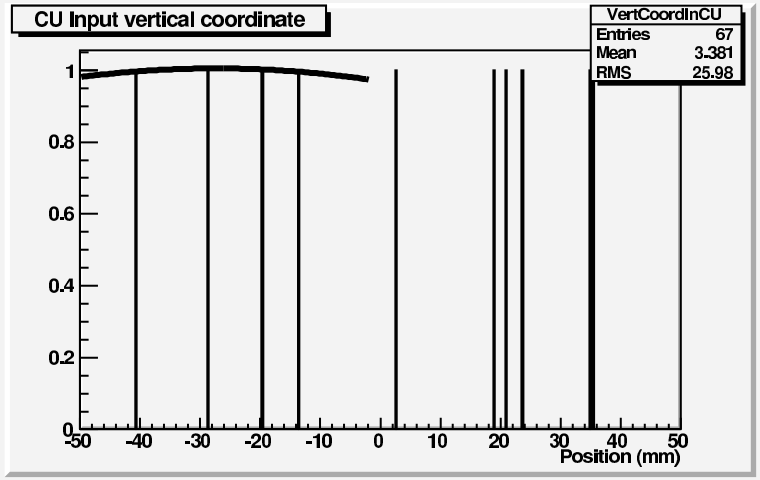

CU Input horizontal angle
HorAngleInCU
Entries 151
Mean 0
RMS 0
Angle (rad)

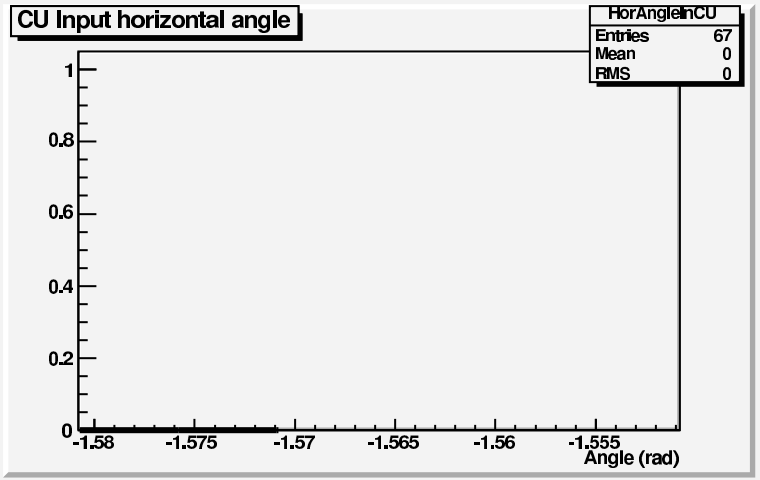

CU Input vertical angle
VertAngleInCU
Entries 151
Mean 0.001051
RMS 0.009263
Angle (rad)

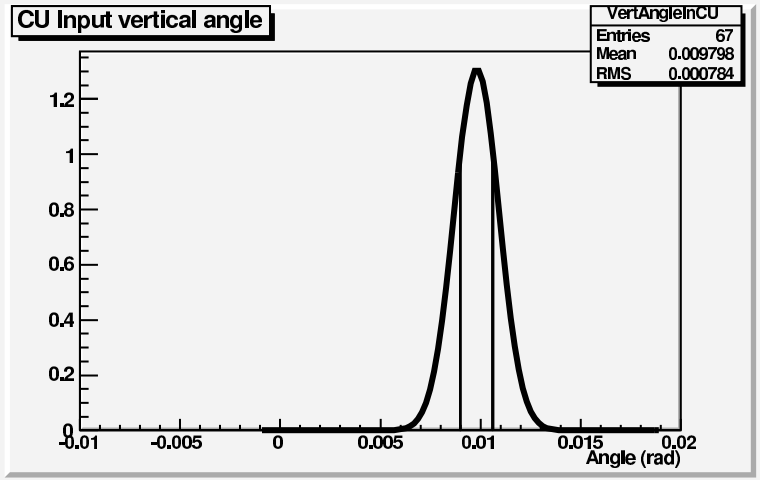

CU Input Beam Spot
SpotCoordInCU
Entries 151
Mean x 14.06
Mean y 0.7466
RMS x 0.4898
RMS y 5.97
Vertical Position (mm)
Horizontal Position (mm)

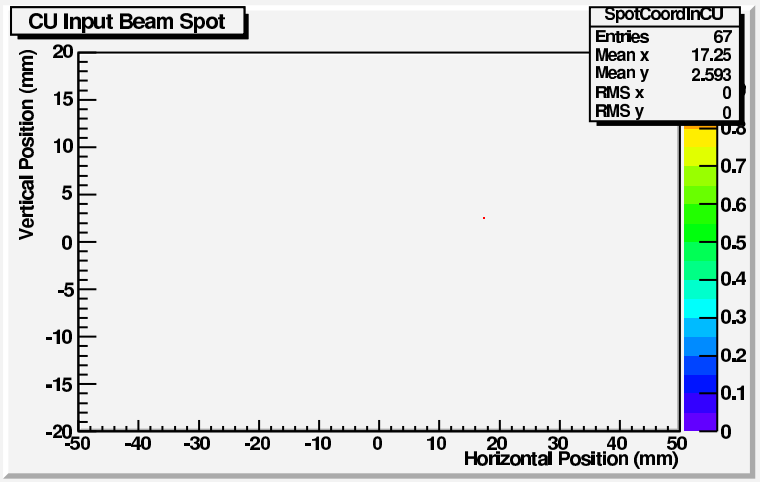

CU Input Beam Spot
SpotAngleInCU
Entries 151
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

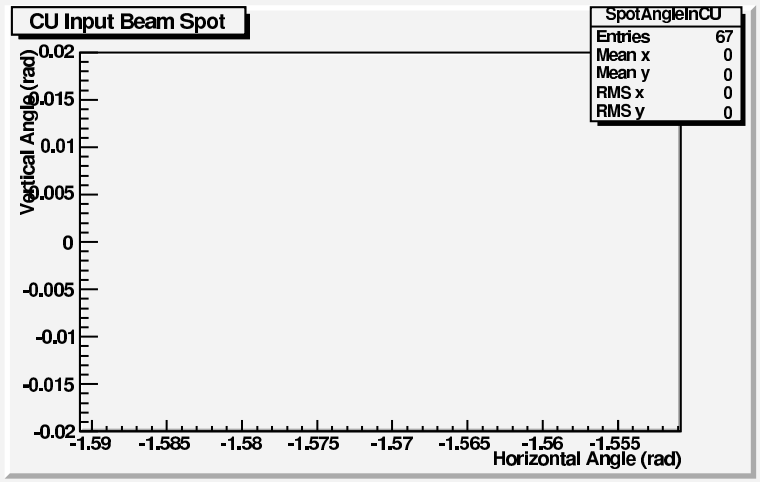

CU Input Horizontal coordinate
HorCoordInCU
Entries 67
Mean 46.22
RMS 29.4
Position (mm)

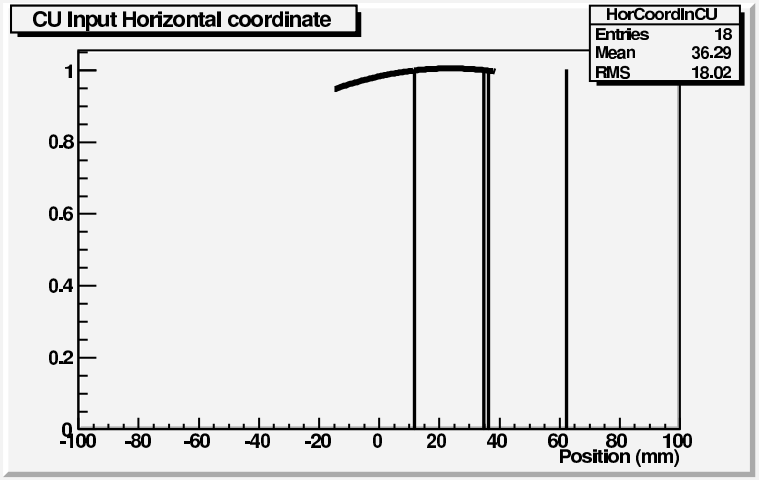

CU Input vertical coordinate
VertCoordInCU
Entries 67
Mean 3.381
RMS 25.98
Position (mm)

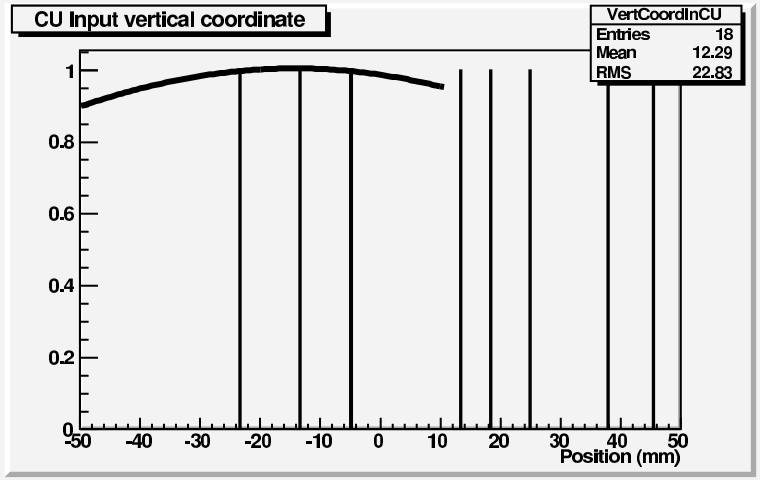

CU Input horizontal angle
HorAngleInCU
Entries 67
Mean 0
RMS 0
Angle (rad)

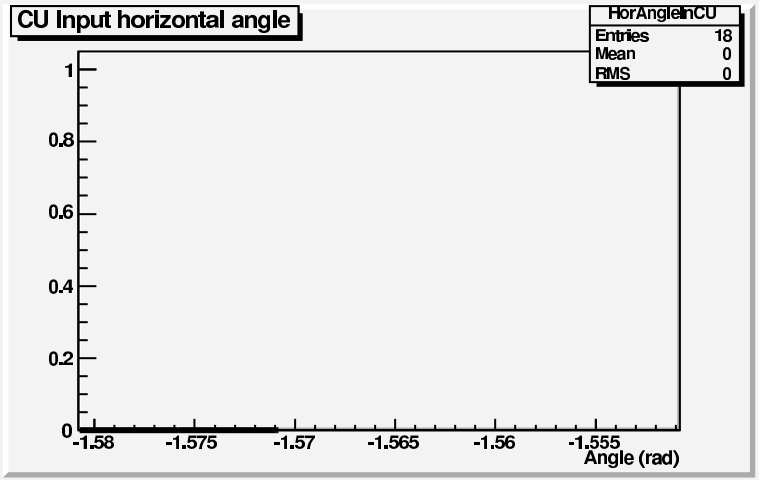

CU Input vertical angle
VertAngleInCU
Entries 67
Mean 0.009798
RMS 0.000784
Angle (rad)

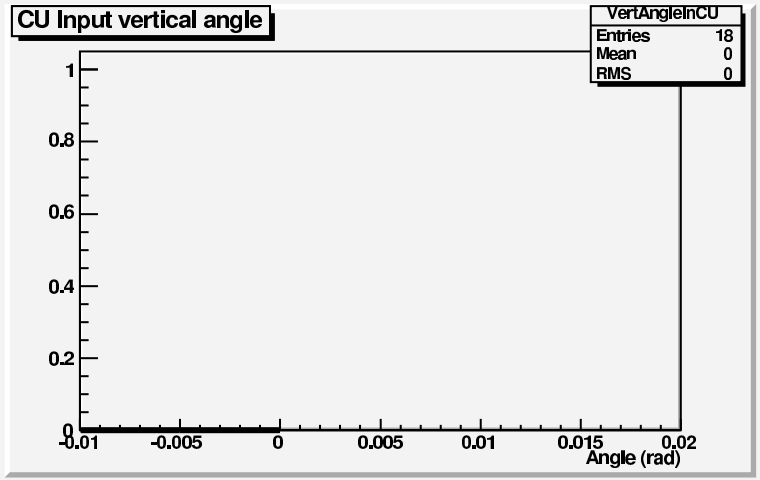

CU Input Beam Spot
SpotCoordInCU
Entries 67
Mean x 17.25
Mean y 2.593
RMS x 0
RMS y 0
Vertical Position (mm)
Horizontal Position (mm)

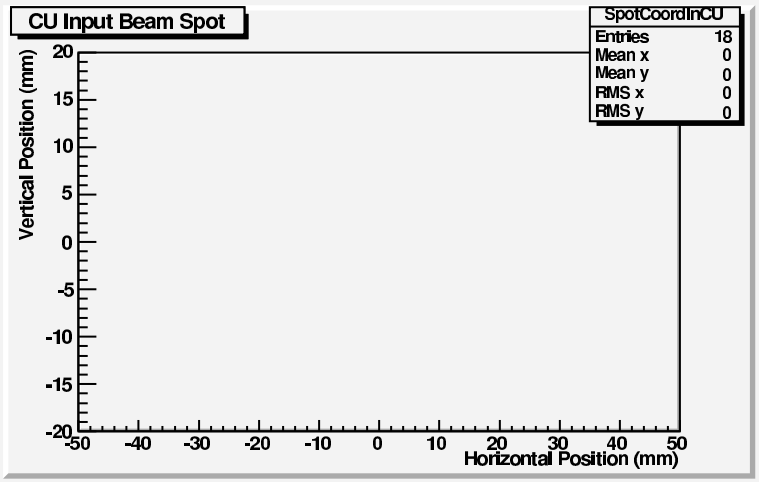

CU Input Beam Spot
SpotAngleInCU
Entries 67
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

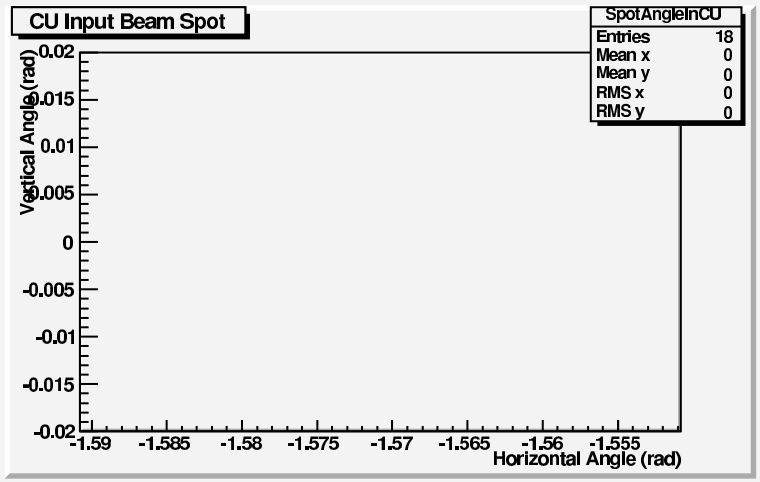

CU Input Horizontal coordinate
HorCoordInCU
Entries 18
Mean 36.29
RMS 18.02
Position (mm)

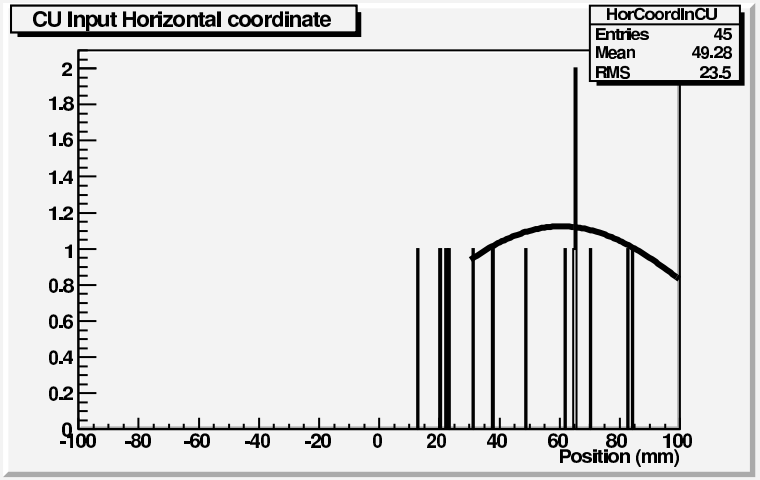

CU Input vertical coordinate
VertCoordInCU
Entries 18
Mean 12.29
RMS 22.83
Position (mm)

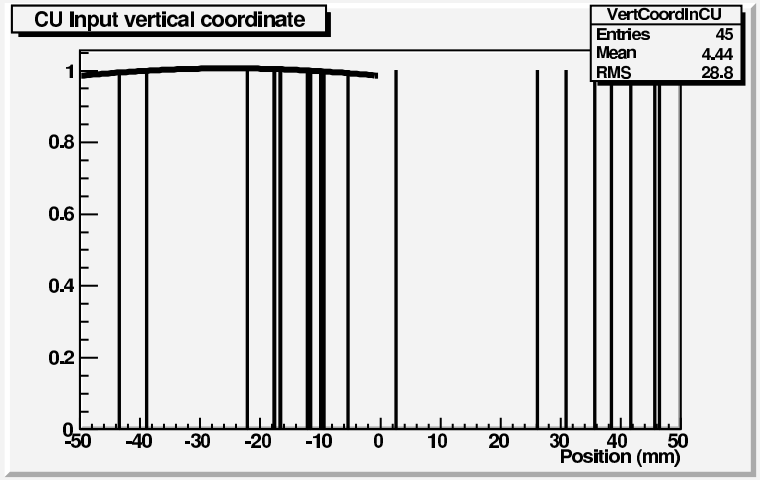

CU Input horizontal angle
HorAngleInCU
Entries 18
Mean 0
RMS 0
Angle (rad)

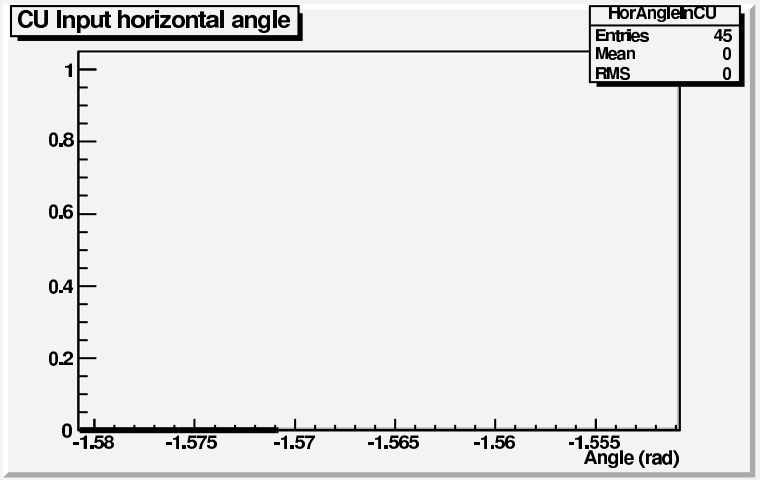

CU Input vertical angle
VertAngleInCU
Entries 18
Mean 0
RMS 0
Angle (rad)

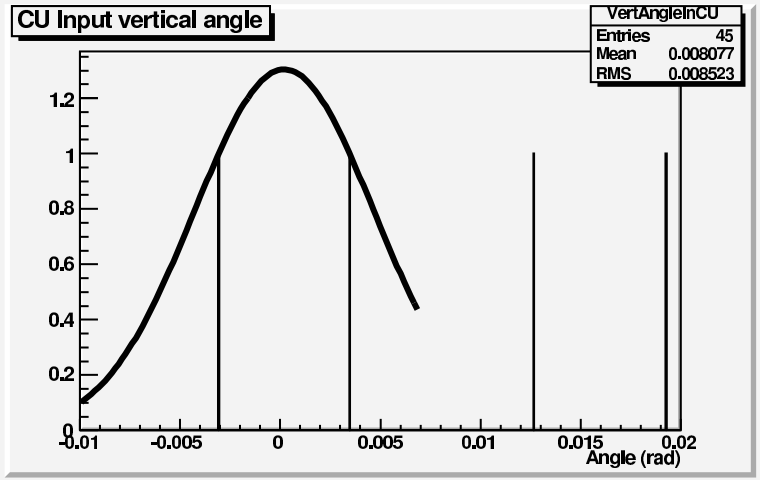

CU Input Beam Spot
SpotCoordInCU
Entries 18
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Position (mm)
Horizontal Position (mm)

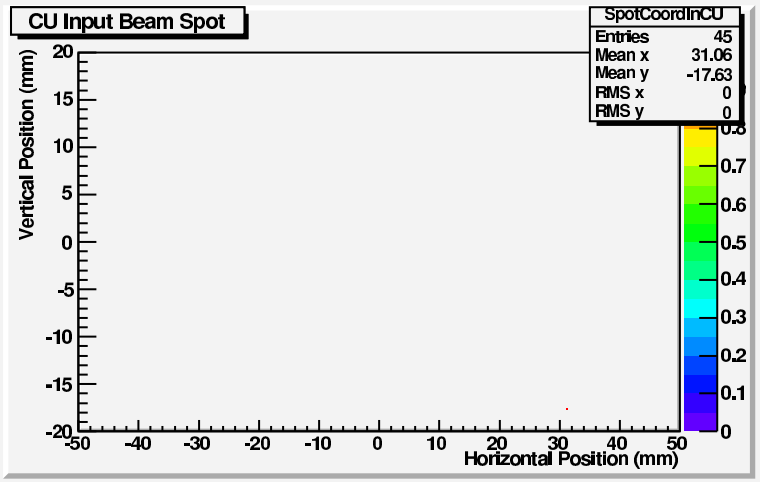

CU Input Beam Spot
SpotAngleInCU
Entries 18
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

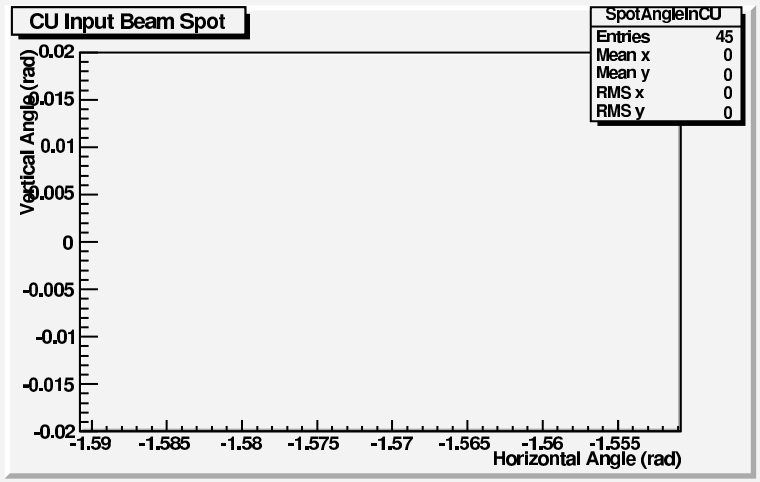

CU Input Horizontal coordinate
HorCoordInCU
Entries 45
Mean 49.28
RMS 23.5
Position (mm)

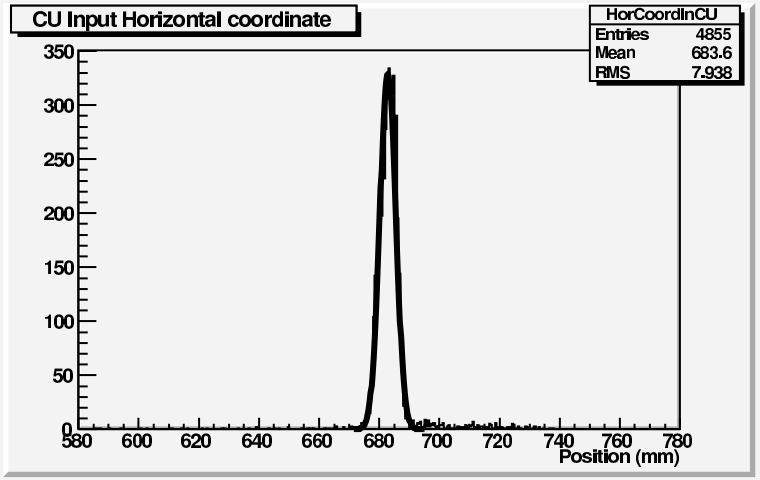

CU Input vertical coordinate
VertCoordInCU
Entries 45
Mean 4.44
RMS 28.8
Position (mm)

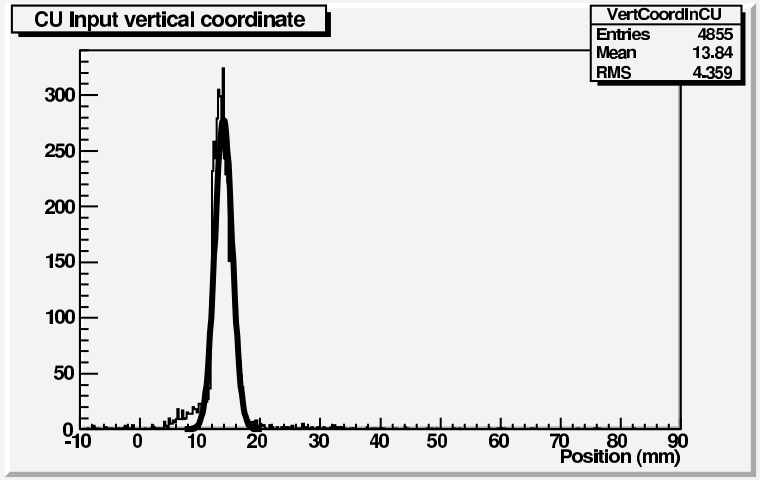

CU Input horizontal angle
HorAngleInCU
Entries 45
Mean 0
RMS 0
Angle (rad)

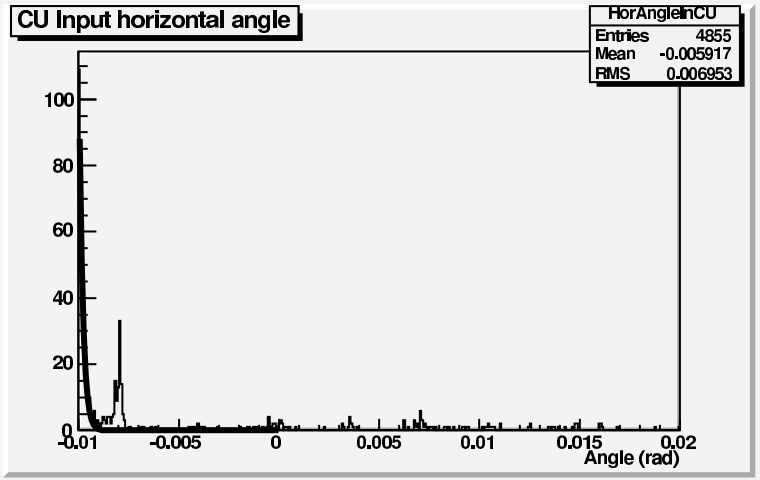

CU Input vertical angle
VertAngleInCU
Entries 45
Mean 0.008077
RMS 0.008523
Angle (rad)

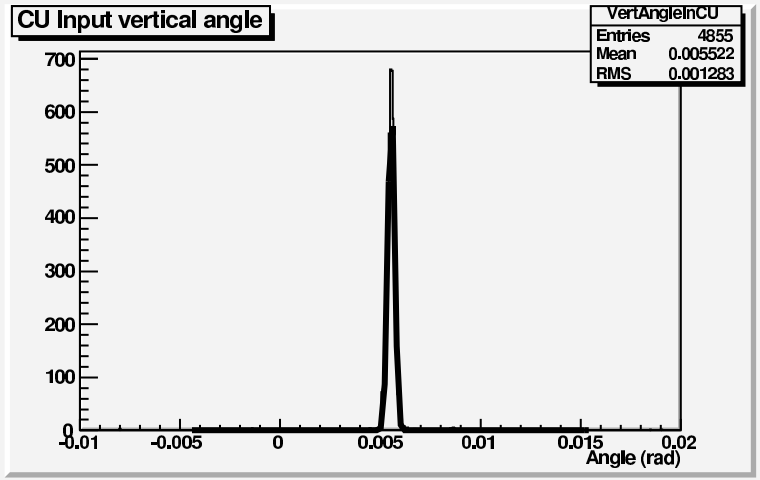

CU Input Beam Spot
SpotCoordInCU
Entries 45
Mean x 31.06
Mean y -17.63
RMS x 0
RMS y 0
Vertical Position (mm)
Horizontal Position (mm)

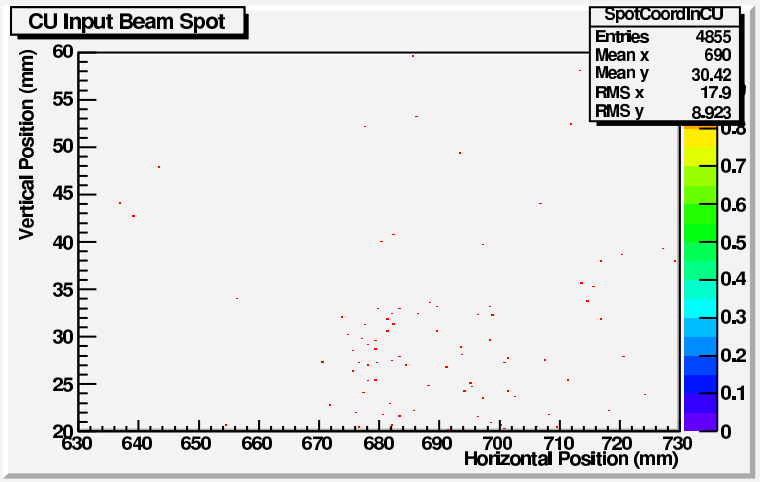

CU Input Beam Spot
SpotAngleInCU
Entries 45
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

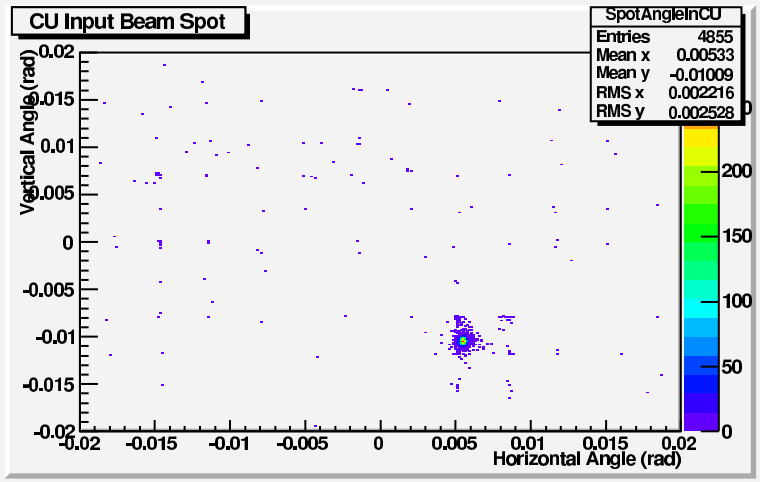

CU Input Horizontal coordinate
HorCoordInCU
Entries 4855
Mean 683.6
RMS 7.938
Position (mm)

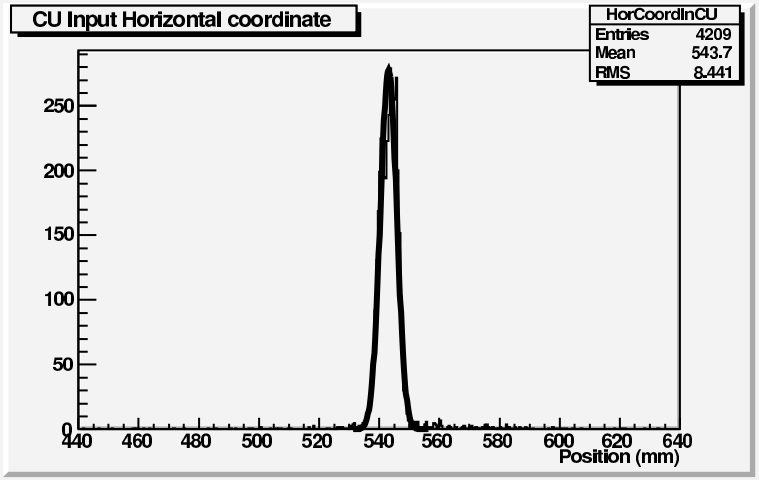

CU Input vertical coordinate
VertCoordInCU
Entries 4855
Mean 13.84
RMS 4.359
Position (mm)

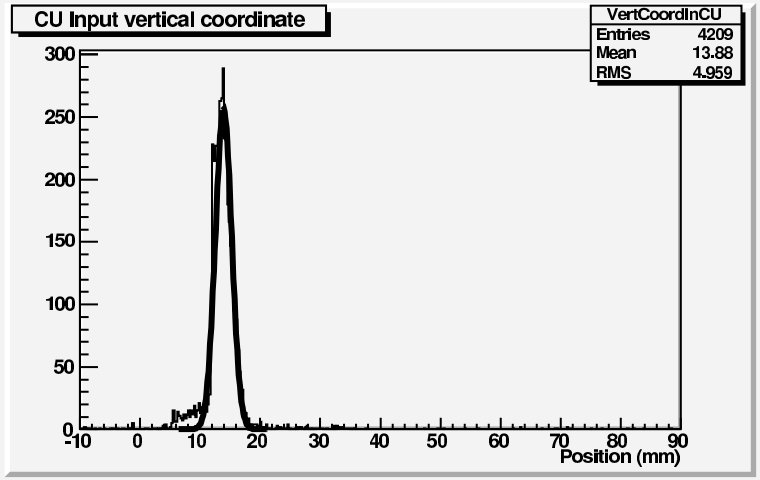

CU Input horizontal angle
HorAngleInCU
Entries 4855
Mean -0.005917
RMS 0.006953
Angle (rad)

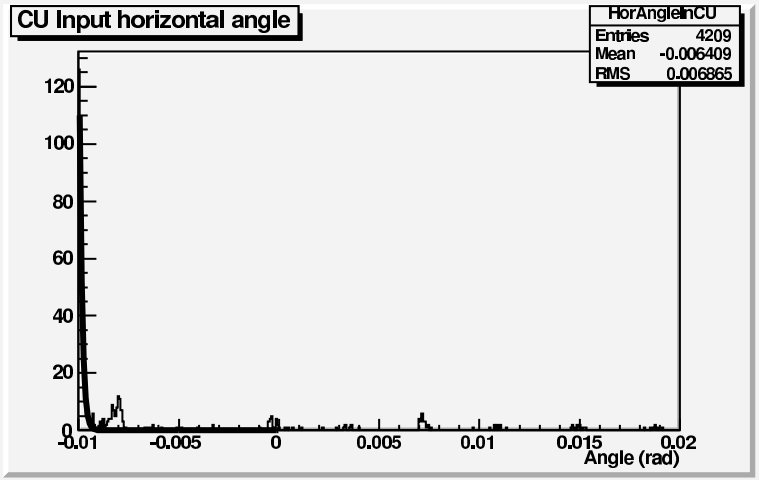

CU Input vertical angle
VertAngleInCU
Entries 4855
Mean 0.005522
RMS 0.001283
Angle (rad)

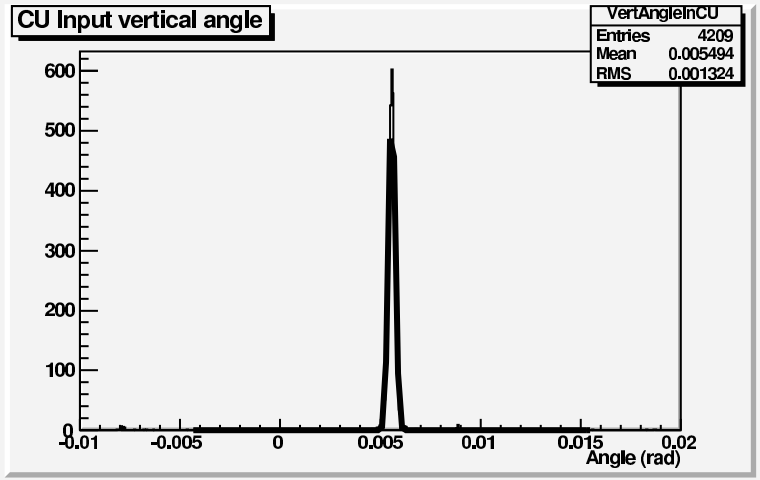

CU Input Beam Spot
SpotCoordInCU
Entries 4855
Mean x 690
Mean y 30.42
RMS x 17.9
RMS y 8.923
Vertical Position (mm)
Horizontal Position (mm)

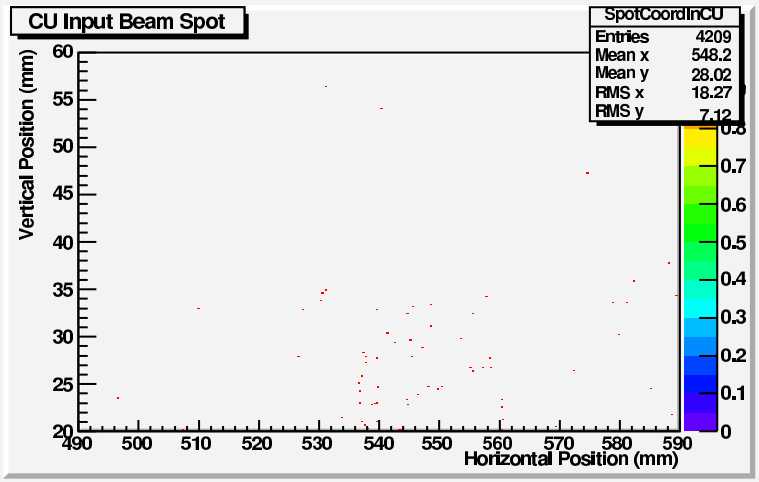

CU Input Beam Spot
SpotAngleInCU
Entries 4855
Mean x 0.00533
Mean y -0.01009
RMS x 0.002216
RMS y 0.002528
Vertical Angle (rad)
Horizontal Angle (rad)

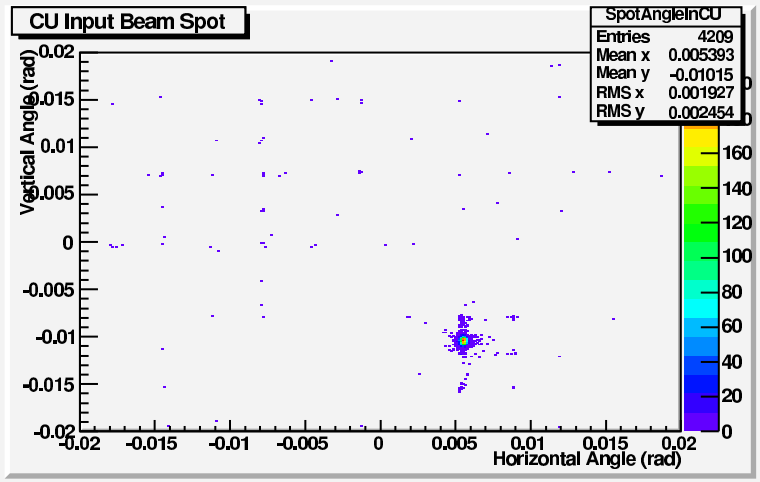

CU Input Horizontal coordinate
HorCoordInCU
Entries 4209
Mean 543.7
RMS 8.441
Position (mm)

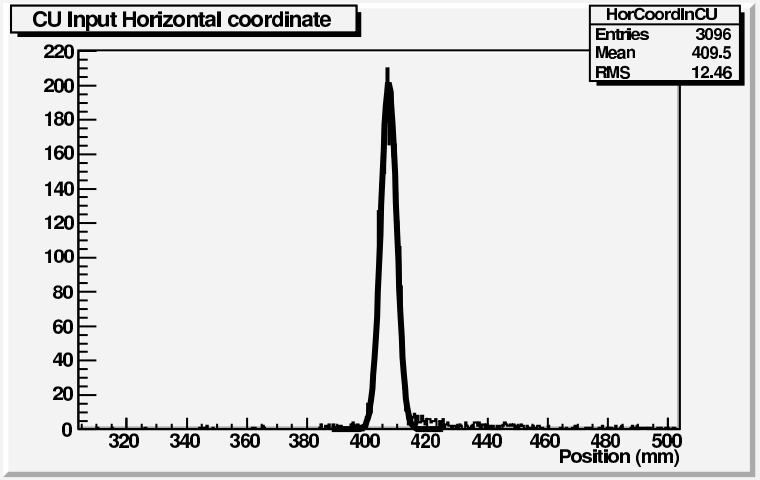

CU Input vertical coordinate
VertCoordInCU
Entries 4209
Mean 13.88
RMS 4.959
Position (mm)

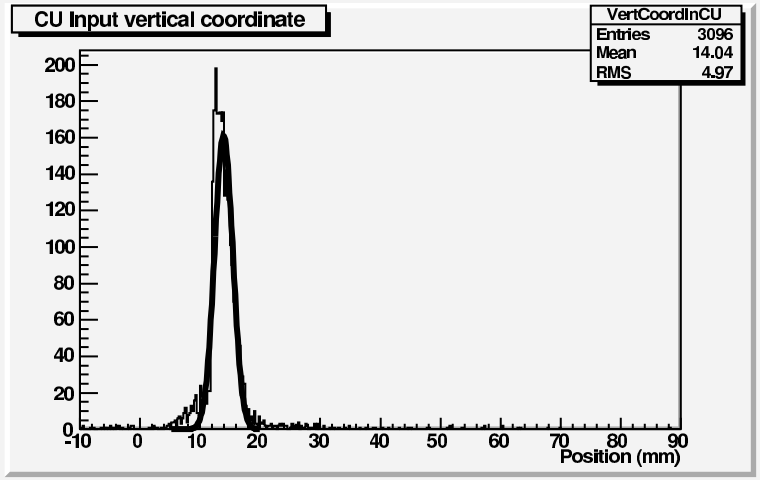

CU Input horizontal angle
HorAngleInCU
Entries 4209
Mean -0.006409
RMS 0.006865
Angle (rad)

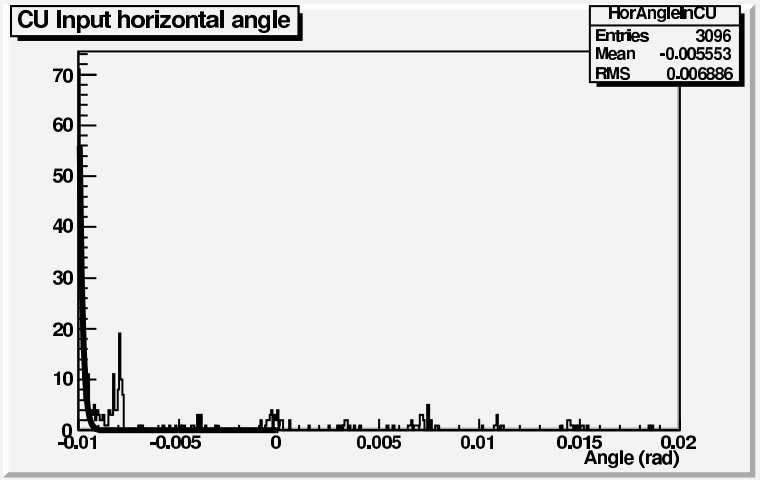

CU Input vertical angle
VertAngleInCU
Entries 4209
Mean 0.005494
RMS 0.001324
Angle (rad)

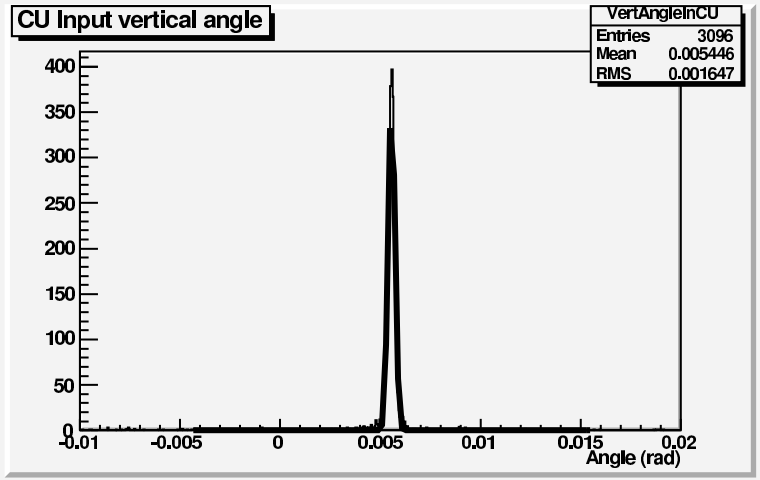

CU Input Beam Spot
SpotCoordInCU
Entries 4209
Mean x 548.2
Mean y 28.02
RMS x 18.27
RMS y 7.12
Vertical Position (mm)
Horizontal Position (mm)

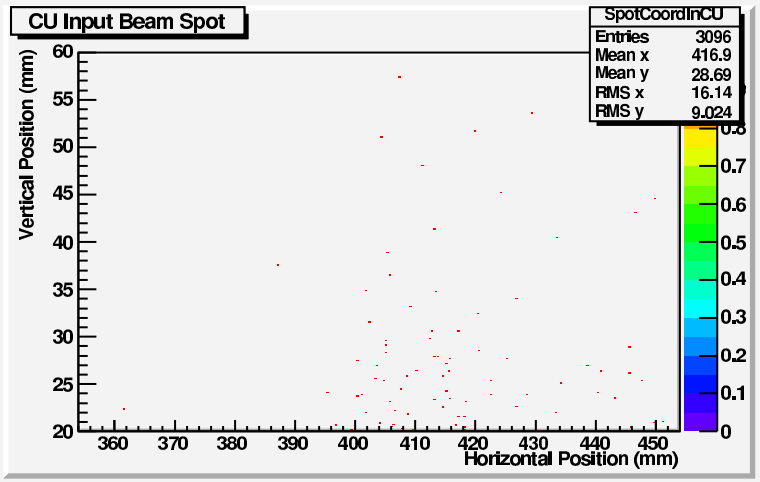

CU Input Beam Spot
SpotAngleInCU
Entries 4209
Mean x 0.005393
Mean y -0.01015
RMS x 0.001927
RMS y 0.002454
Vertical Angle (rad)
Horizontal Angle (rad)

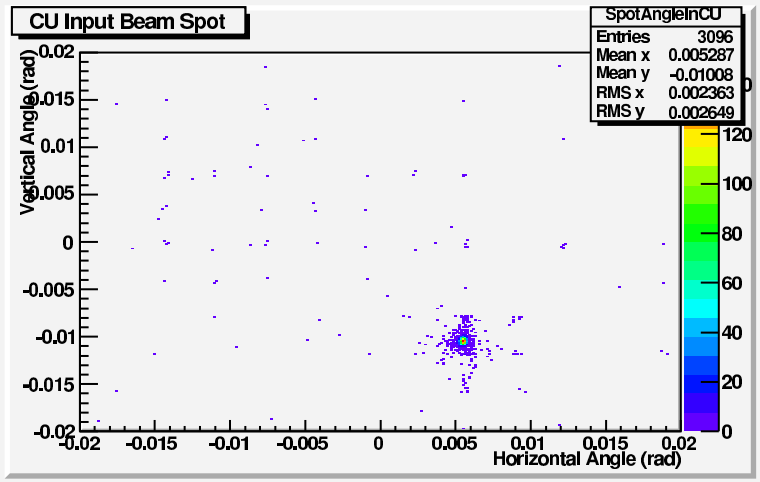

CU Input Horizontal coordinate
HorCoordInCU
Entries 3096
Mean 409.5
RMS 12.46
Position (mm)

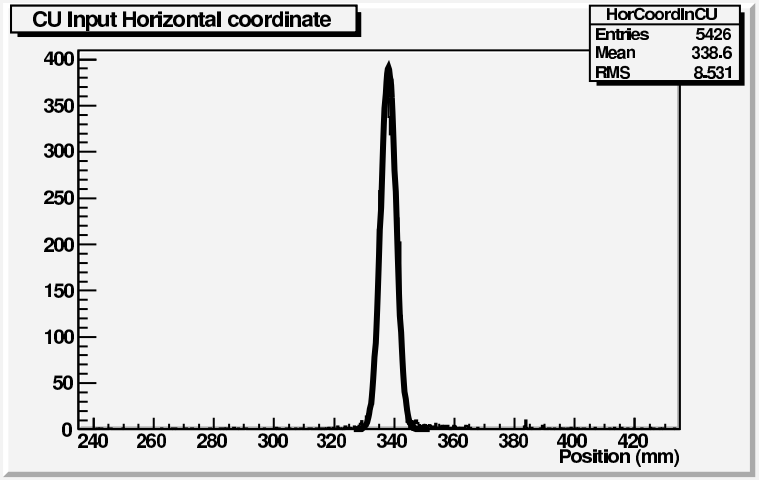

CU Input vertical coordinate
VertCoordInCU
Entries 3096
Mean 14.04
RMS 4.97
Position (mm)

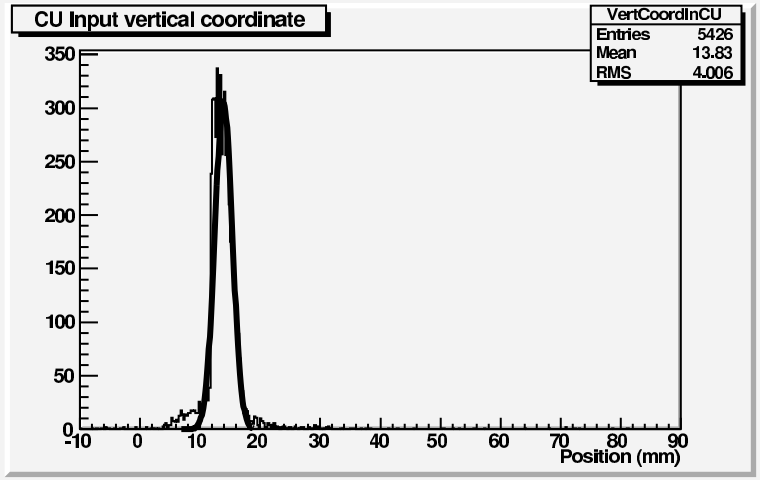

CU Input horizontal angle
HorAngleInCU
Entries 3096
Mean -0.005553
RMS 0.006886
Angle (rad)

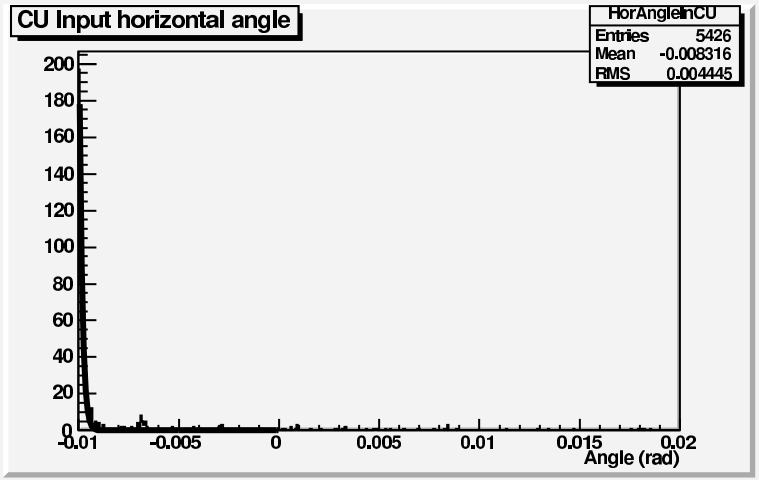

CU Input vertical angle
VertAngleInCU
Entries 3096
Mean 0.005446
RMS 0.001647
Angle (rad)

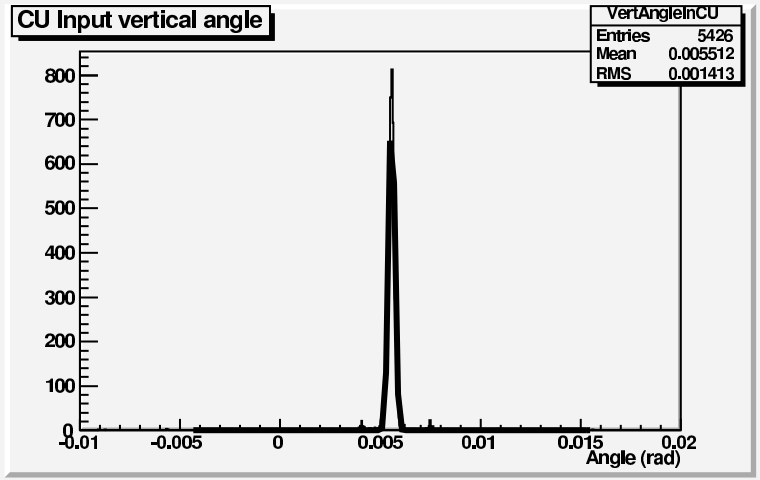

CU Input Beam Spot
SpotCoordInCU
Entries 3096
Mean x 416.9
Mean y 28.69
RMS x 16.14
RMS y 9.024
Vertical Position (mm)
Horizontal Position (mm)

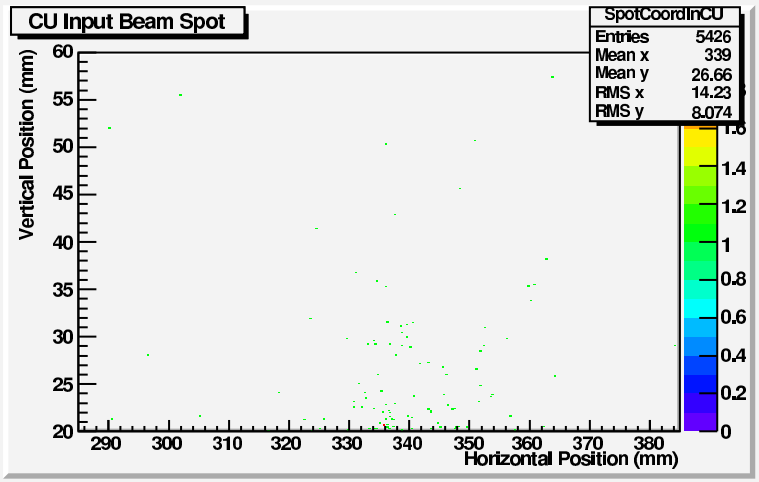

CU Input Beam Spot
SpotAngleInCU
Entries 3096
Mean x 0.005287
Mean y -0.01008
RMS x 0.002363
RMS y 0.002649
Vertical Angle (rad)
Horizontal Angle (rad)

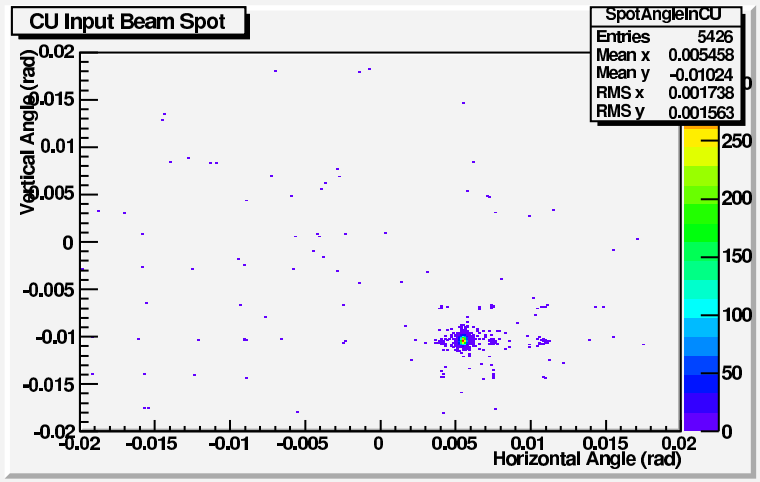

CU Input Horizontal coordinate
HorCoordInCU
Entries 5426
Mean 338.6
RMS 8.531
Position (mm)

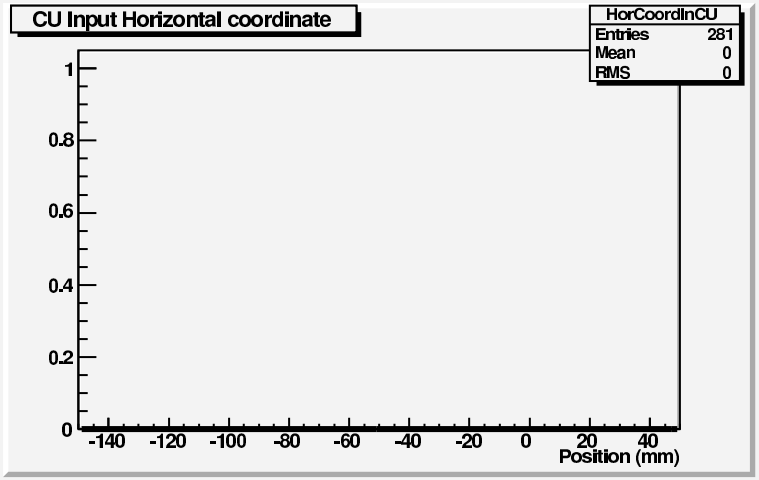

CU Input vertical coordinate
VertCoordInCU
Entries 5426
Mean 13.83
RMS 4.006
Position (mm)

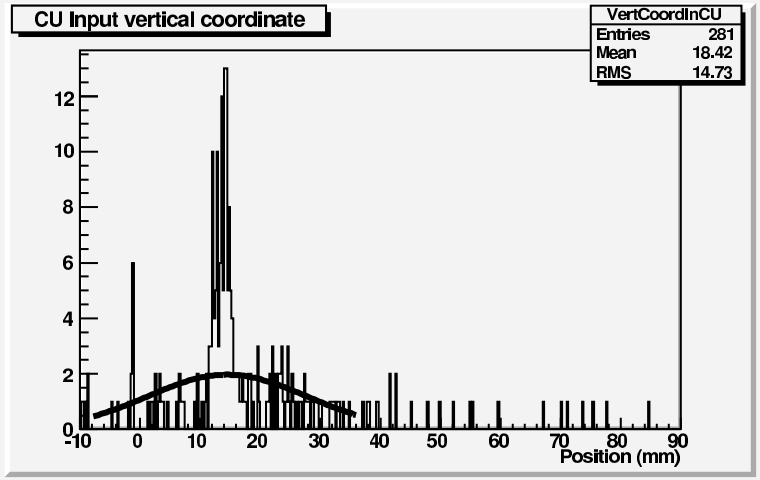

CU Input horizontal angle
HorAngleInCU
Entries 5426
Mean -0.008316
RMS 0.004445
Angle (rad)

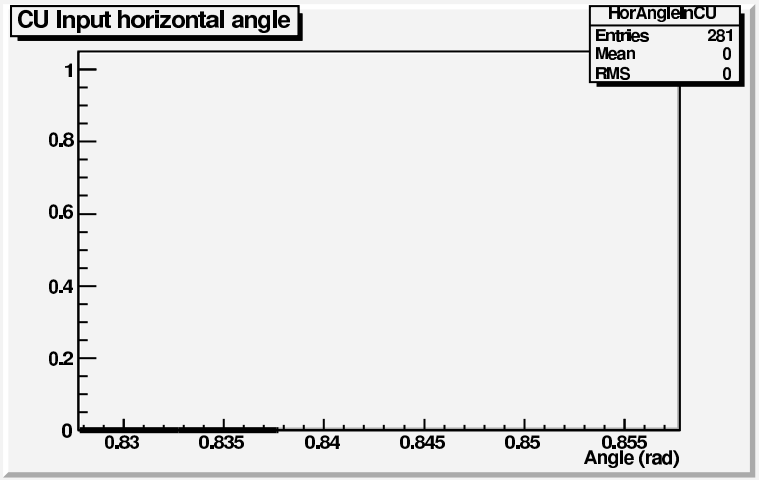

CU Input vertical angle
VertAngleInCU
Entries 5426
Mean 0.005512
RMS 0.001413
Angle (rad)

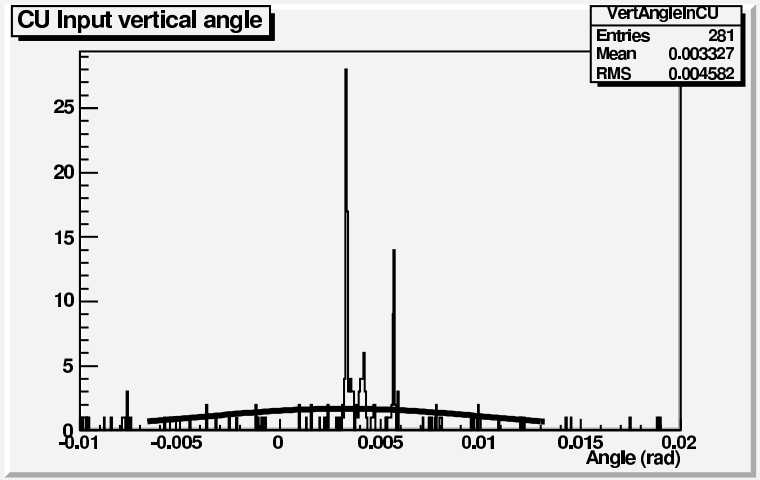

CU Input Beam Spot
SpotCoordInCU
Entries 5426
Mean x 339
Mean y 26.66
RMS x 14.23
RMS y 8.074
Vertical Position (mm)
Horizontal Position (mm)

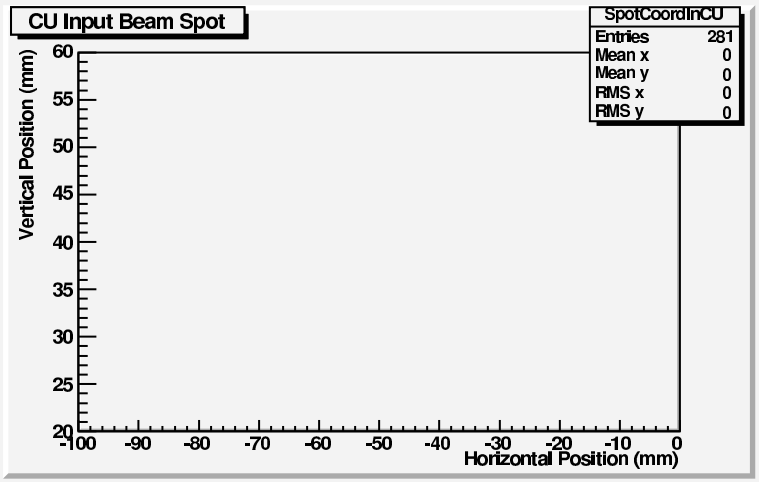

CU Input Beam Spot
SpotAngleInCU
Entries 5426
Mean x 0.005458
Mean y -0.01024
RMS x 0.001738
RMS y 0.001563
Vertical Angle (rad)
Horizontal Angle (rad)

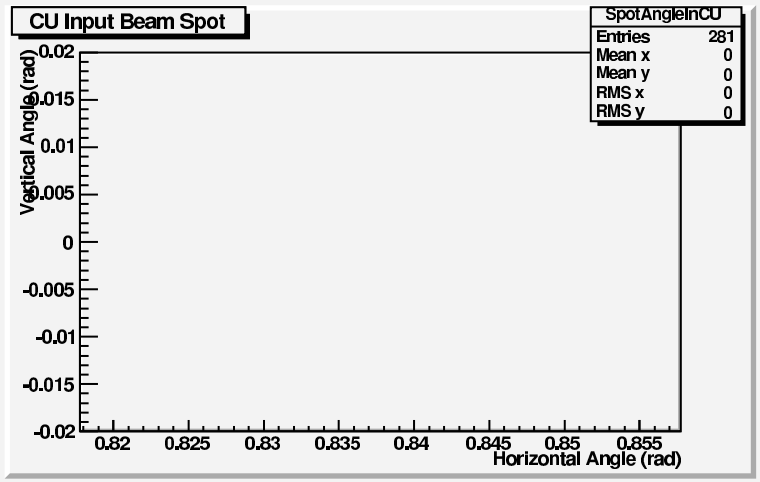

CU Input Horizontal coordinate
HorCoordInCU
Entries 281
Mean 0
RMS 0
Position (mm)

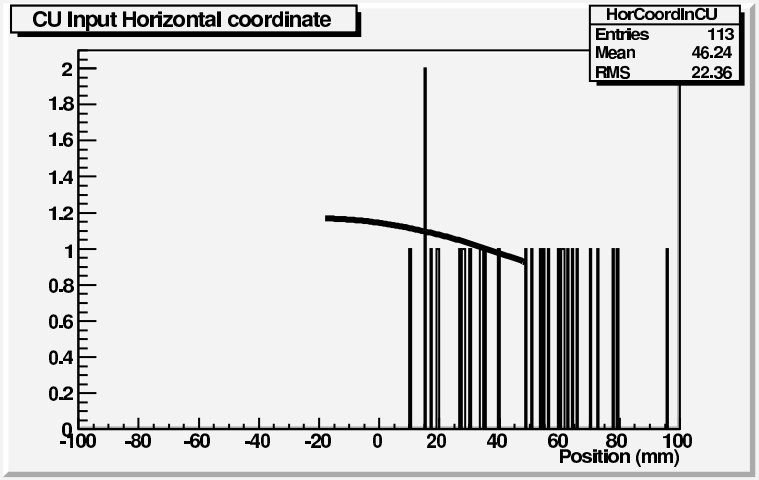

CU Input vertical coordinate
VertCoordInCU
Entries 281
Mean 18.42
RMS 14.73
Position (mm)

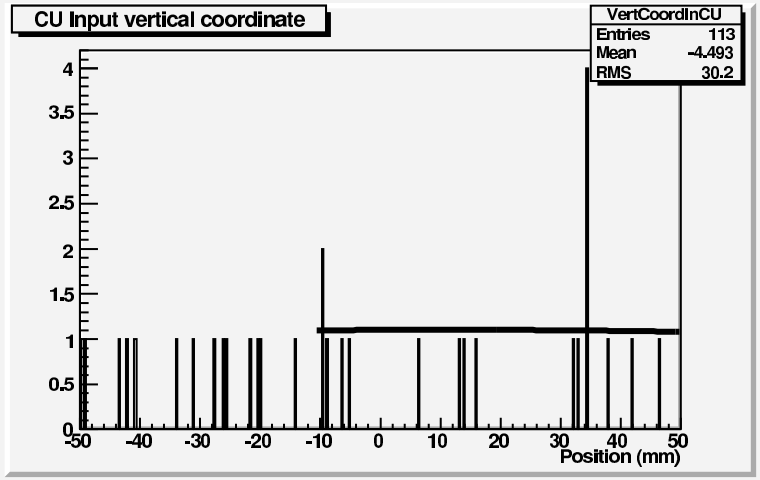

CU Input horizontal angle
HorAngleInCU
Entries 281
Mean 0
RMS 0
Angle (rad)

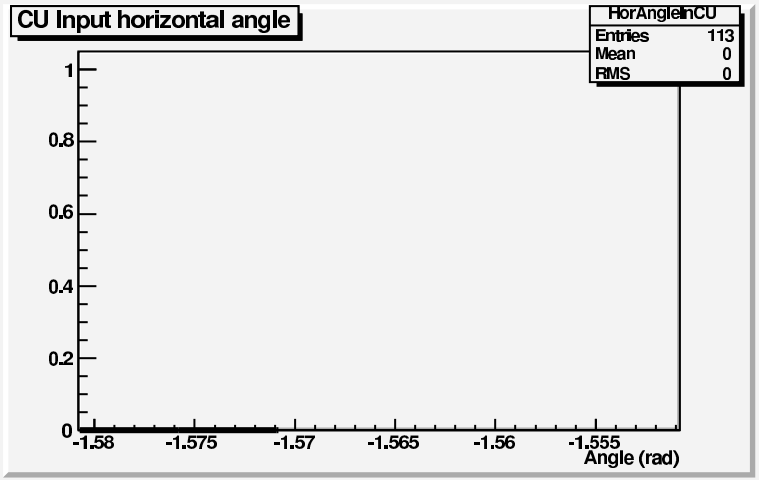

CU Input vertical angle
VertAngleInCU
Entries 281
Mean 0.003327
RMS 0.004582
Angle (rad)

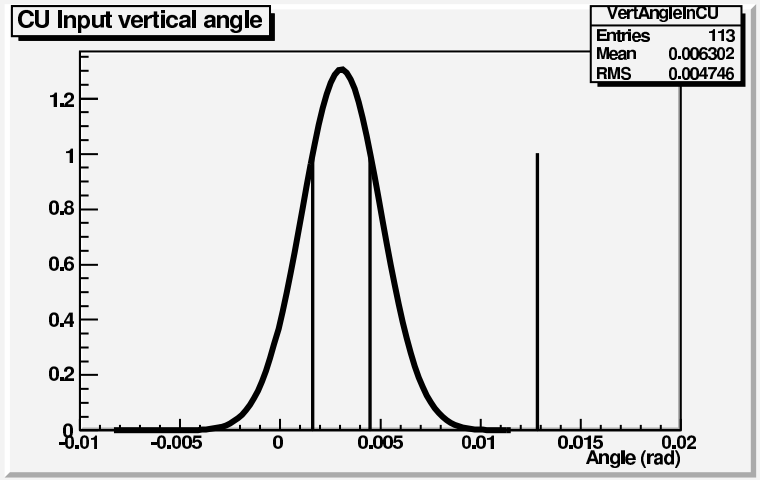

CU Input Beam Spot
SpotCoordInCU
Entries 281
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Position (mm)
Horizontal Position (mm)

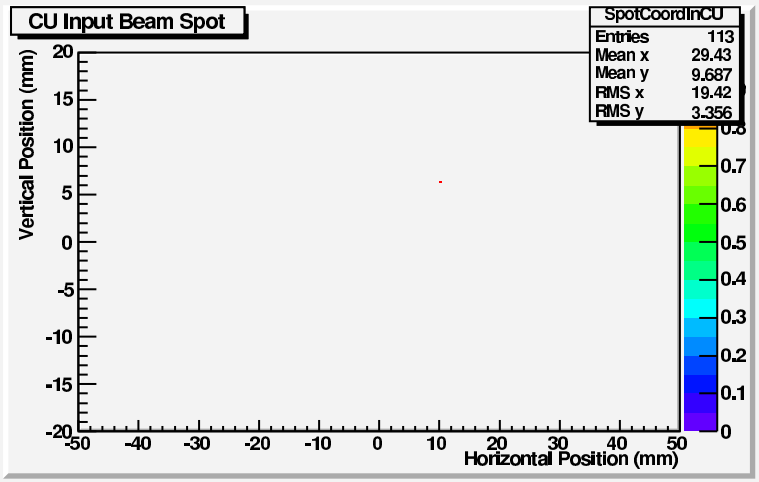

CU Input Beam Spot
SpotAngleInCU
Entries 281
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

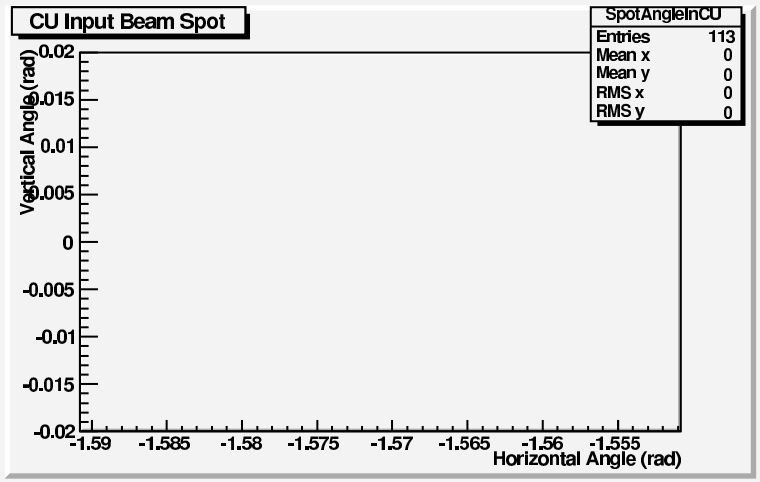

CU Input Horizontal coordinate
HorCoordInCU
Entries 113
Mean 46.24
RMS 22.36
Position (mm)

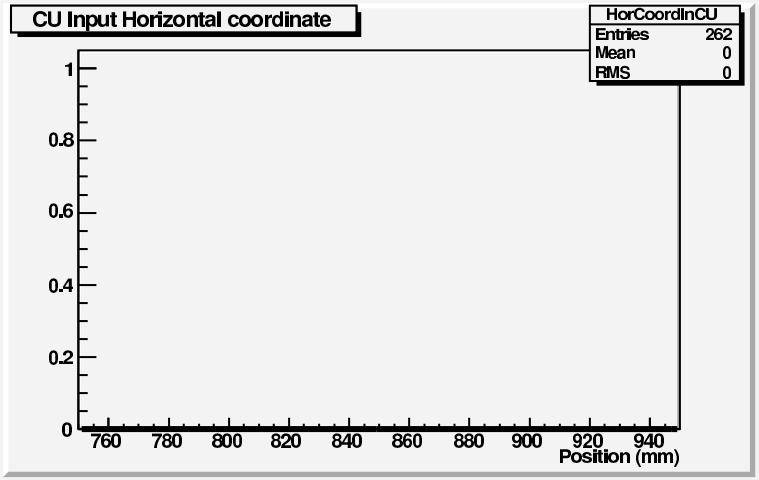

CU Input vertical coordinate
VertCoordInCU
Entries 113
Mean -4.493
RMS 30.2
Position (mm)

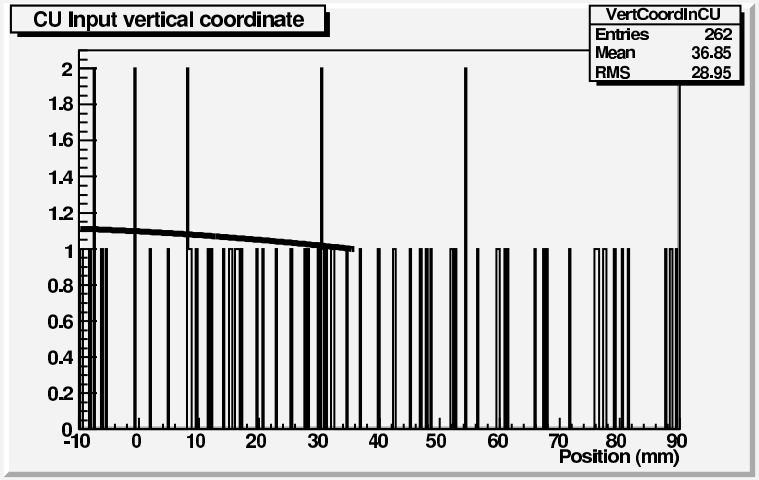

CU Input horizontal angle
HorAngleInCU
Entries 113
Mean 0
RMS 0
Angle (rad)

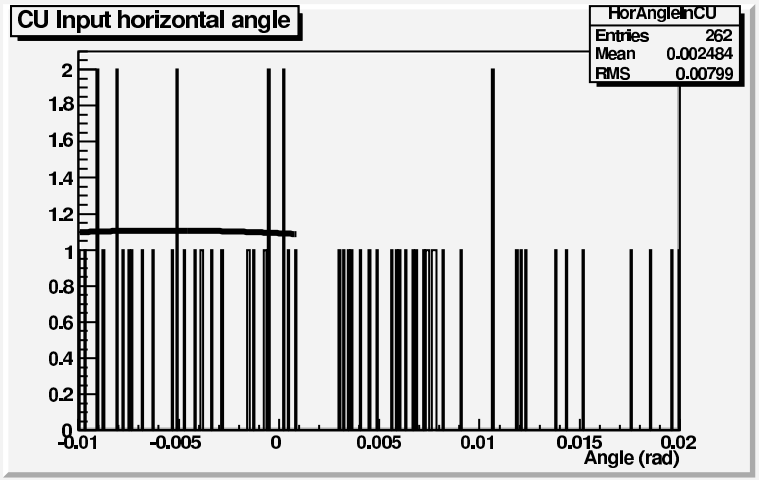

CU Input vertical angle
VertAngleInCU
Entries 113
Mean 0.006302
RMS 0.004746
Angle (rad)

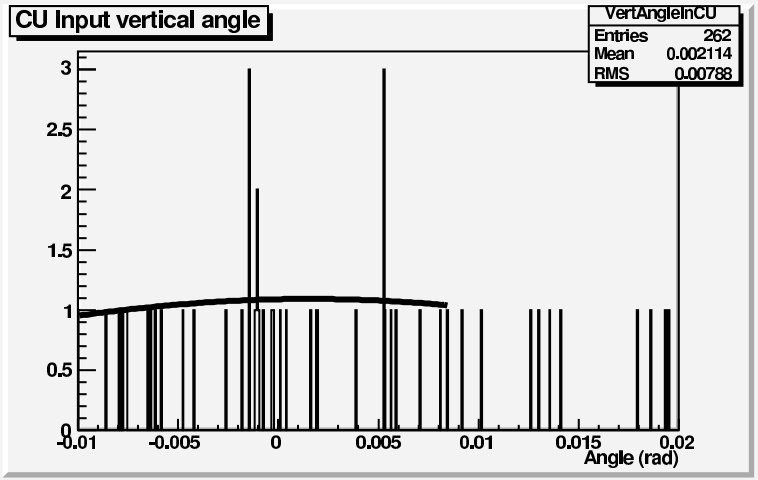

CU Input Beam Spot
SpotCoordInCU
Entries 113
Mean x 29.43
Mean y 9.687
RMS x 19.42
RMS y 3.356
Vertical Position (mm)
Horizontal Position (mm)

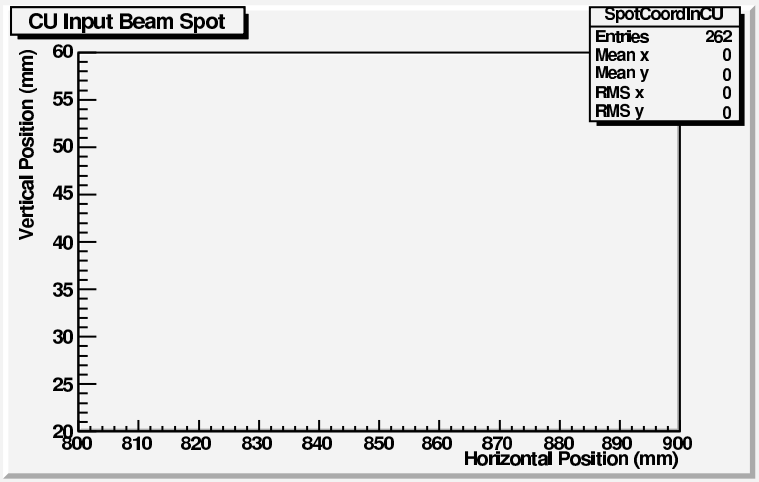

CU Input Beam Spot
SpotAngleInCU
Entries 113
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

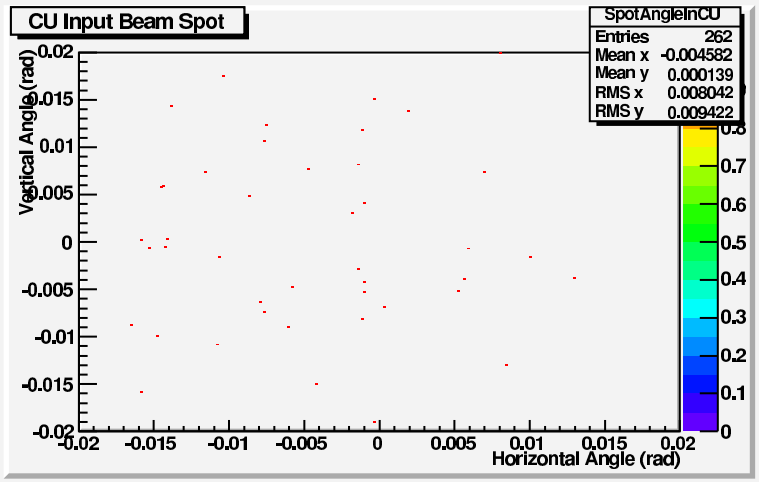

CU Input Horizontal coordinate
HorCoordInCU
Entries 262
Mean 0
RMS 0
Position (mm)

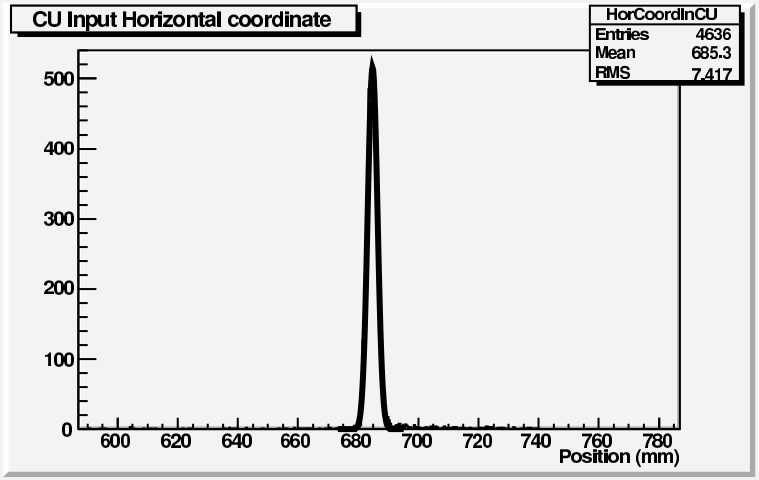

CU Input vertical coordinate
VertCoordInCU
Entries 262
Mean 36.85
RMS 28.95
Position (mm)

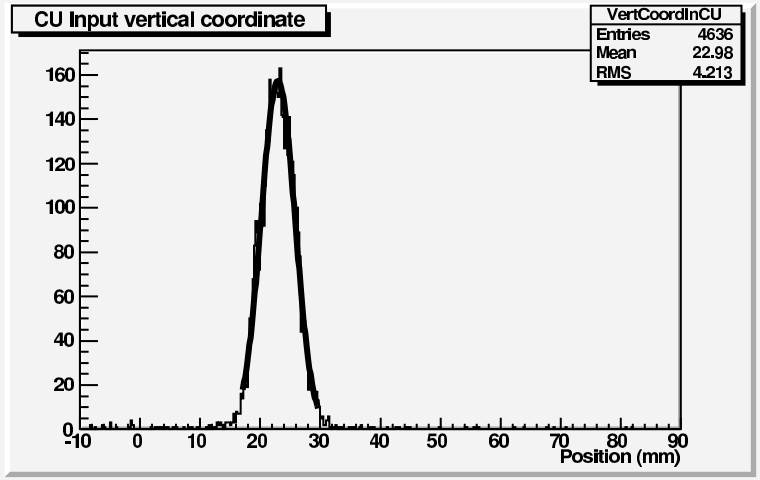

CU Input horizontal angle
HorAngleInCU
Entries 262
Mean 0.002484
RMS 0.00799
Angle (rad)

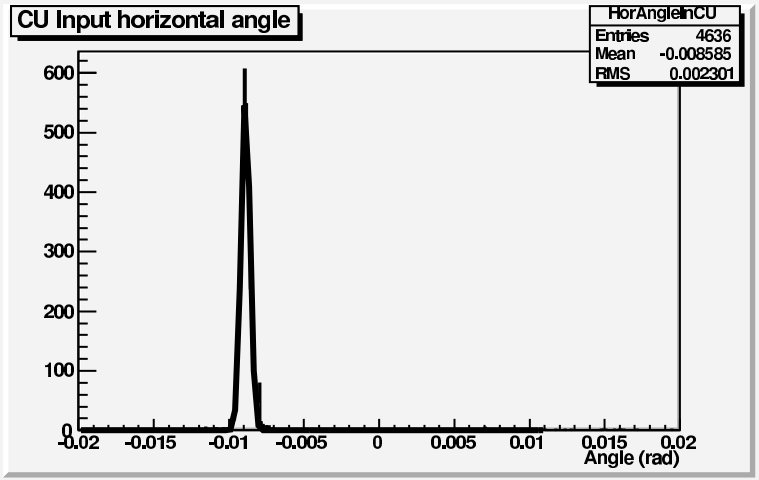

CU Input vertical angle
VertAngleInCU
Entries 262
Mean 0.002114
RMS 0.00788
Angle (rad)

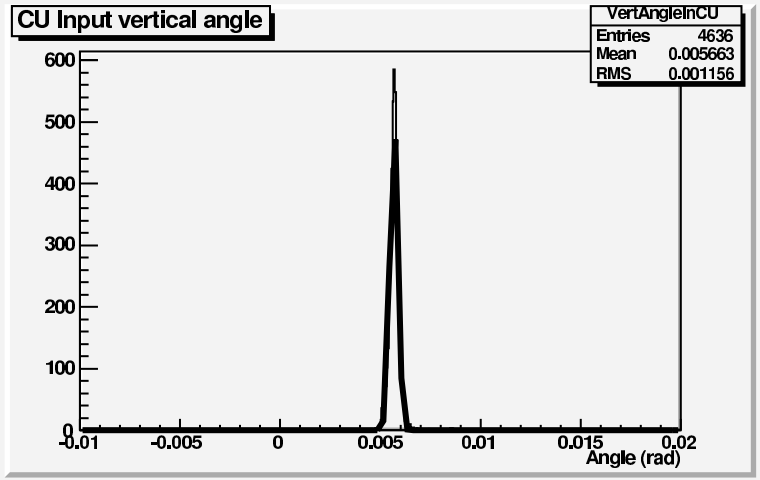

CU Input Beam Spot
SpotCoordInCU
Entries 262
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Position (mm)
Horizontal Position (mm)

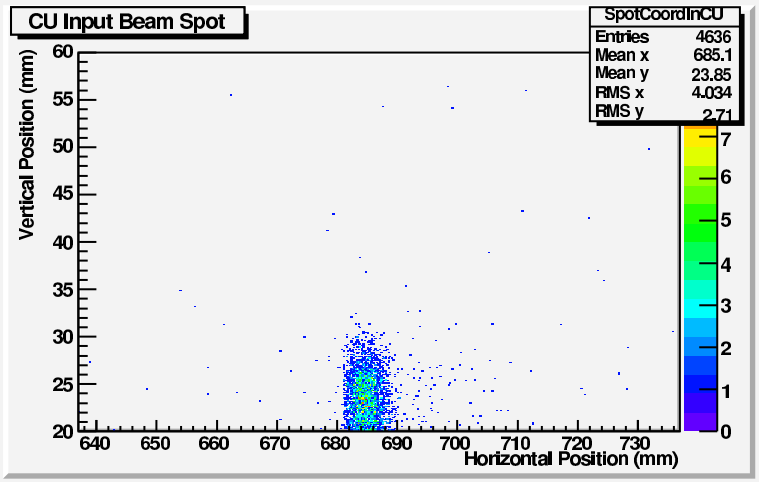

CU Input Beam Spot
SpotAngleInCU
Entries 262
Mean x -0.004582
Mean y 0.000139
RMS x 0.008042
RMS y 0.009422
Vertical Angle (rad)
Horizontal Angle (rad)

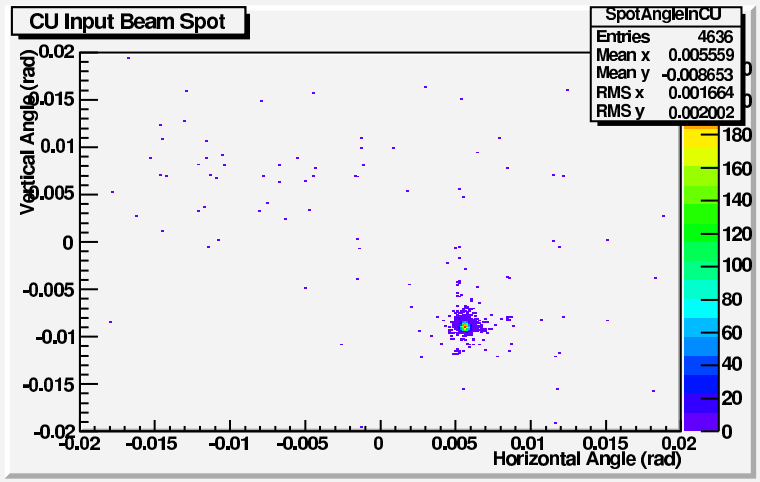

CU Input Horizontal coordinate
HorCoordInCU
Entries 4636
Mean 685.3
RMS 7.417
Position (mm)

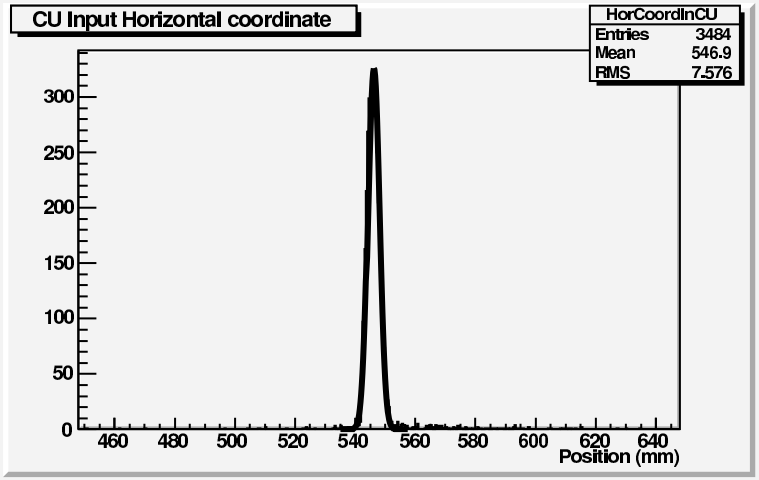

CU Input vertical coordinate
VertCoordInCU
Entries 4636
Mean 22.98
RMS 4.213
Position (mm)

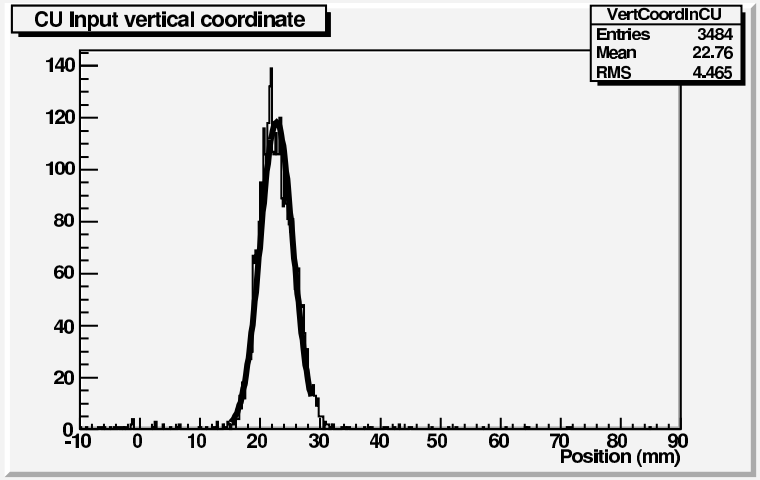

CU Input horizontal angle
HorAngleInCU
Entries 4636
Mean -0.008585
RMS 0.002301
Angle (rad)

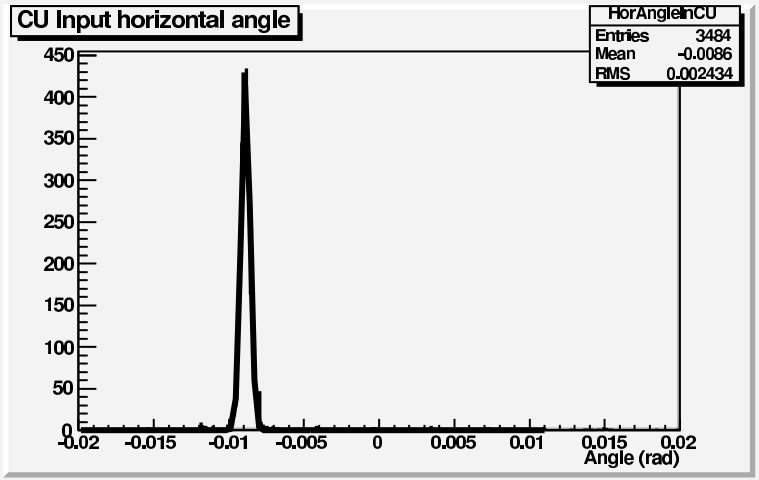

CU Input vertical angle
VertAngleInCU
Entries 4636
Mean 0.005663
RMS 0.001156
Angle (rad)

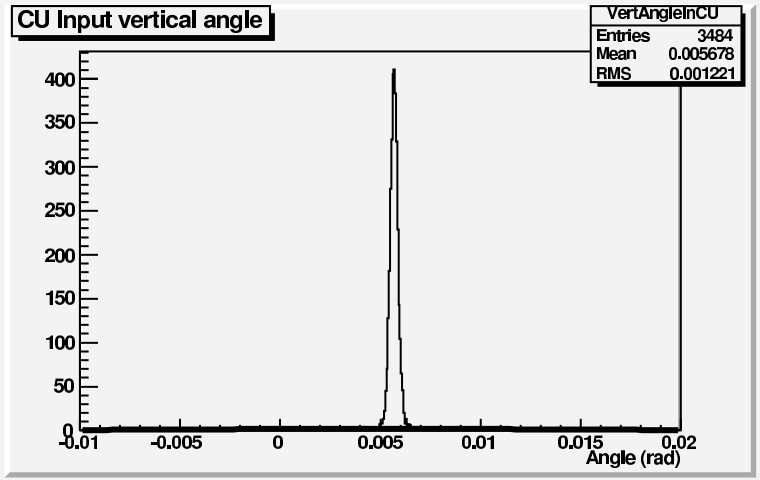

CU Input Beam Spot
SpotCoordInCU
Entries 4636
Mean x 685.1
Mean y 23.85
RMS x 4.034
RMS y 2.71
Vertical Position (mm)
Horizontal Position (mm)

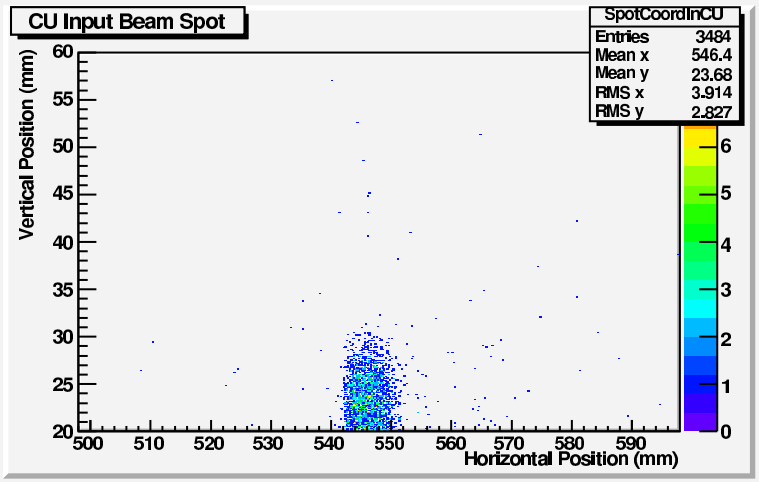

CU Input Beam Spot
SpotAngleInCU
Entries 4636
Mean x 0.005559
Mean y -0.008653
RMS x 0.001664
RMS y 0.002002
Vertical Angle (rad)
Horizontal Angle (rad)

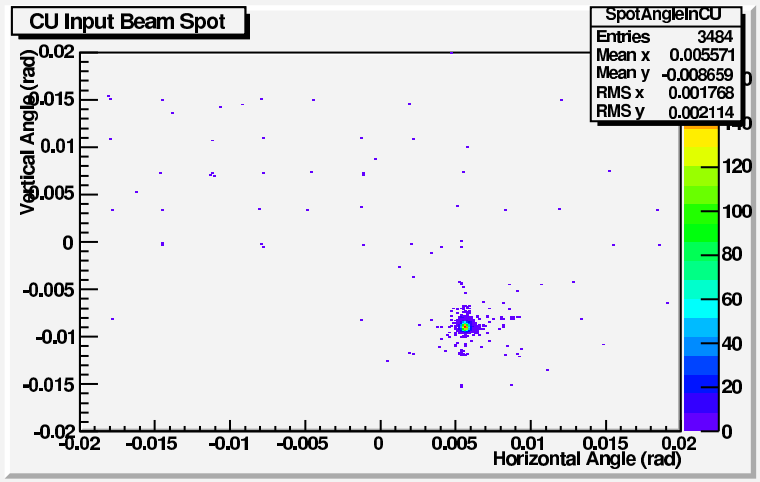

CU Input Horizontal coordinate
HorCoordInCU
Entries 3484
Mean 546.9
RMS 7.576
Position (mm)

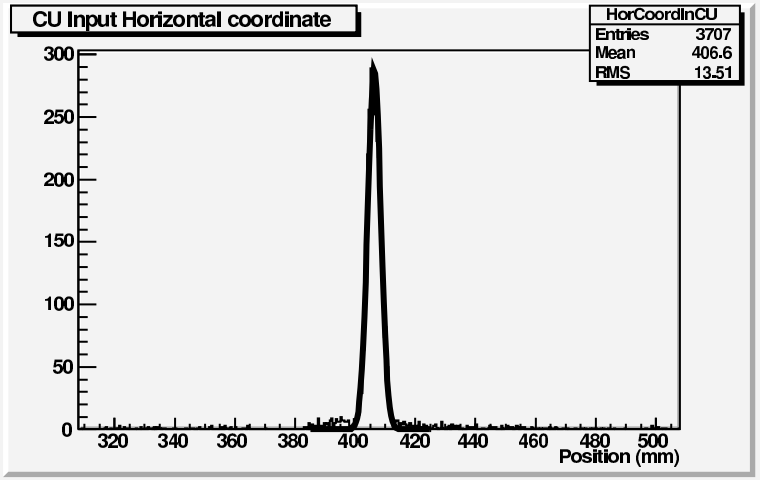

CU Input vertical coordinate
VertCoordInCU
Entries 3484
Mean 22.76
RMS 4.465
Position (mm)

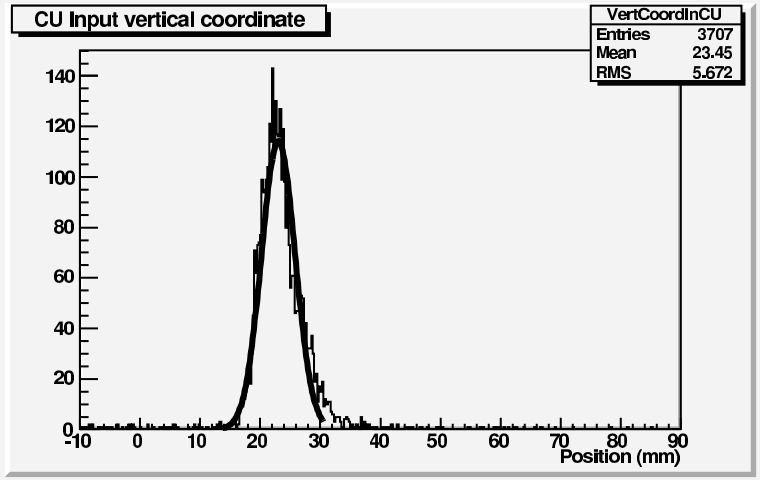

CU Input horizontal angle
HorAngleInCU
Entries 3484
Mean -0.0086
RMS 0.002434
Angle (rad)

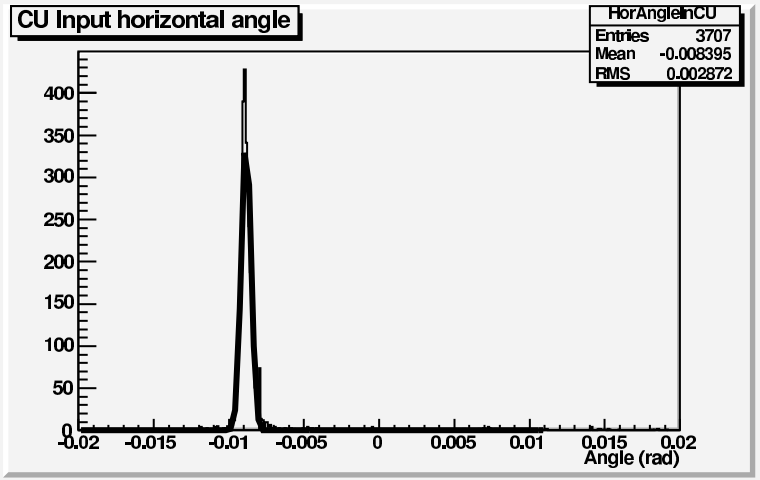

CU Input vertical angle
VertAngleInCU
Entries 3484
Mean 0.005678
RMS 0.001221
Angle (rad)

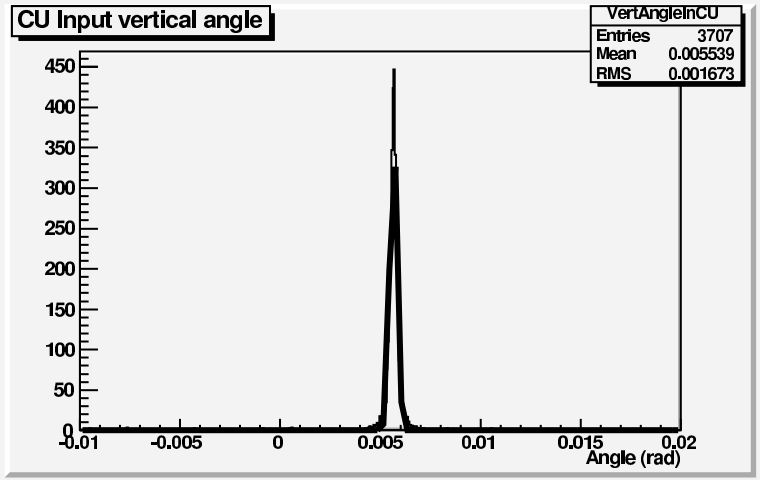

CU Input Beam Spot
SpotCoordInCU
Entries 3484
Mean x 546.4
Mean y 23.68
RMS x 3.914
RMS y 2.827
Vertical Position (mm)
Horizontal Position (mm)

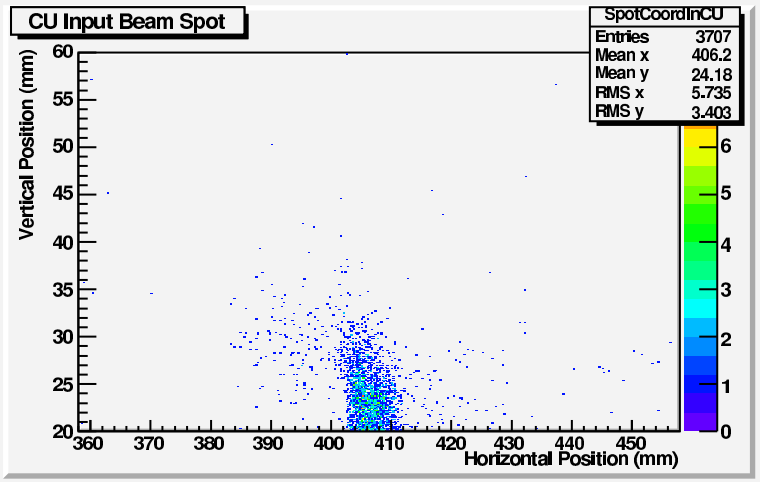

CU Input Beam Spot
SpotAngleInCU
Entries 3484
Mean x 0.005571
Mean y -0.008659
RMS x 0.001768
RMS y 0.002114
Vertical Angle (rad)
Horizontal Angle (rad)

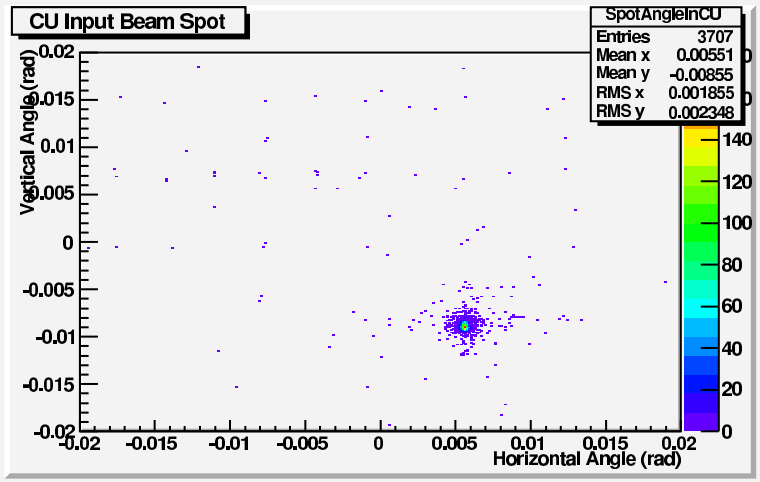

CU Input Horizontal coordinate
HorCoordInCU
Entries 3707
Mean 406.6
RMS 13.51
Position (mm)

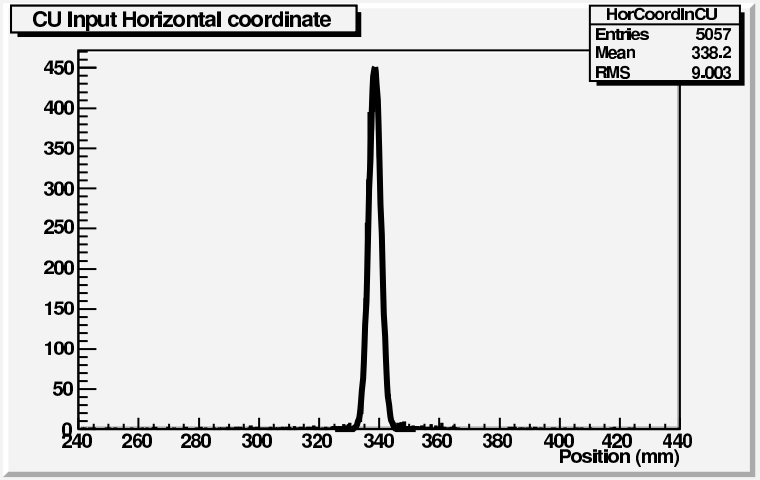

CU Input vertical coordinate
VertCoordInCU
Entries 3707
Mean 23.45
RMS 5.672
Position (mm)

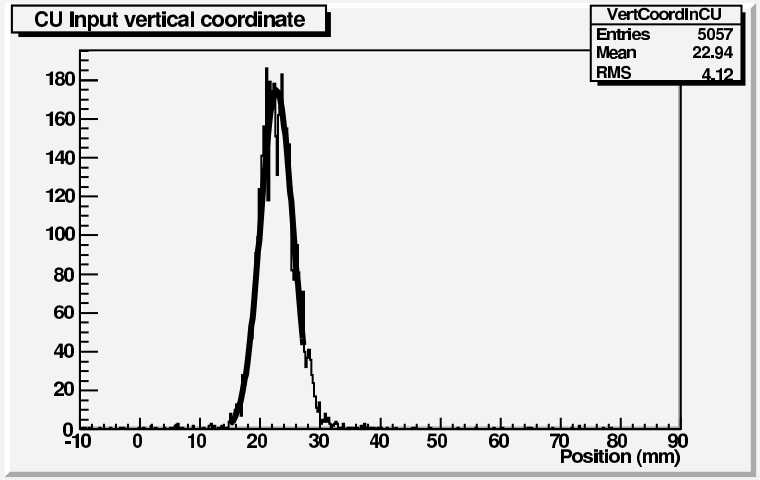

CU Input horizontal angle
HorAngleInCU
Entries 3707
Mean -0.008395
RMS 0.002872
Angle (rad)

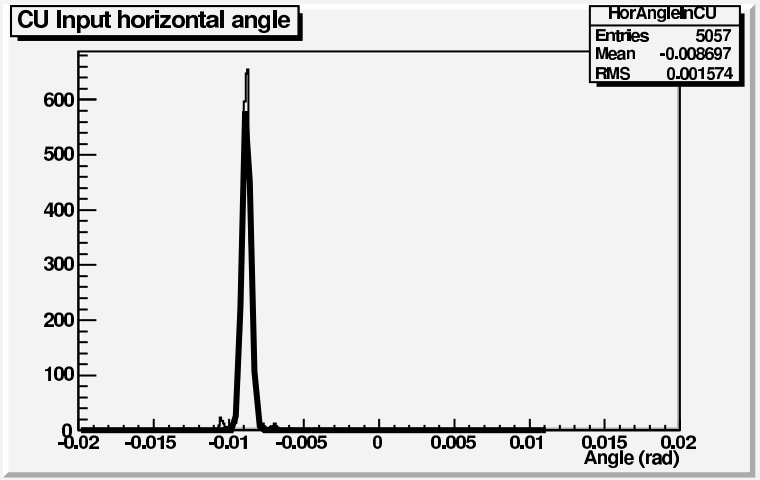

CU Input vertical angle
VertAngleInCU
Entries 3707
Mean 0.005539
RMS 0.001673
Angle (rad)

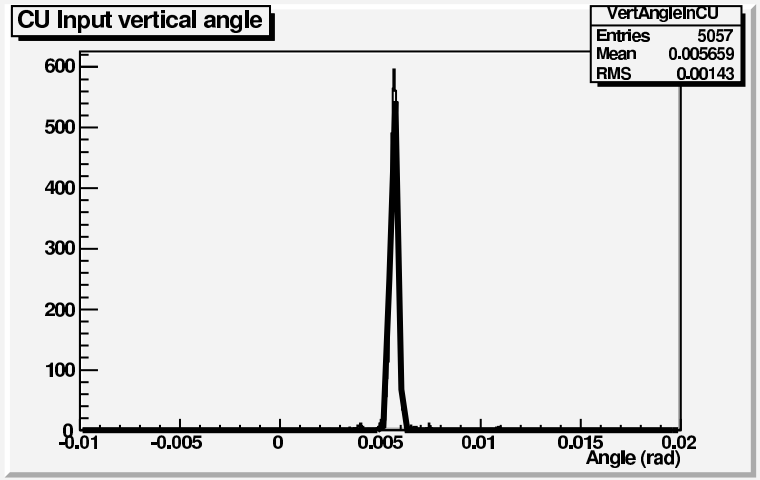

CU Input Beam Spot
SpotCoordInCU
Entries 3707
Mean x 406.2
Mean y 24.18
RMS x 5.735
RMS y 3.403
Vertical Position (mm)
Horizontal Position (mm)

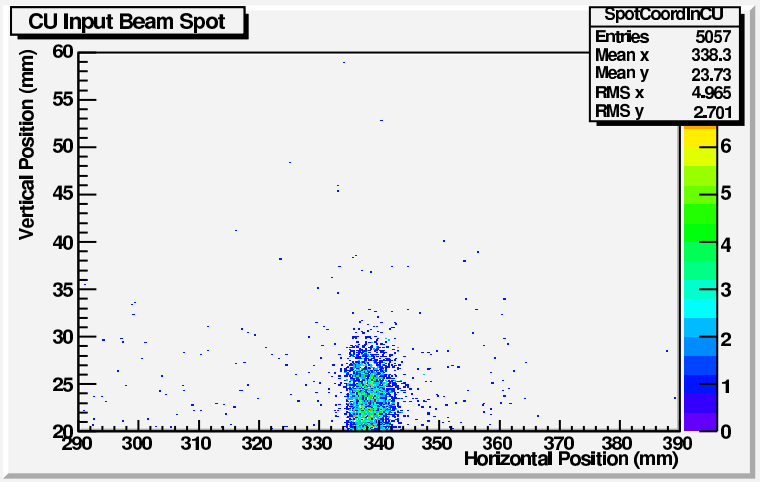

CU Input Beam Spot
SpotAngleInCU
Entries 3707
Mean x 0.00551
Mean y -0.00855
RMS x 0.001855
RMS y 0.002348
Vertical Angle (rad)
Horizontal Angle (rad)

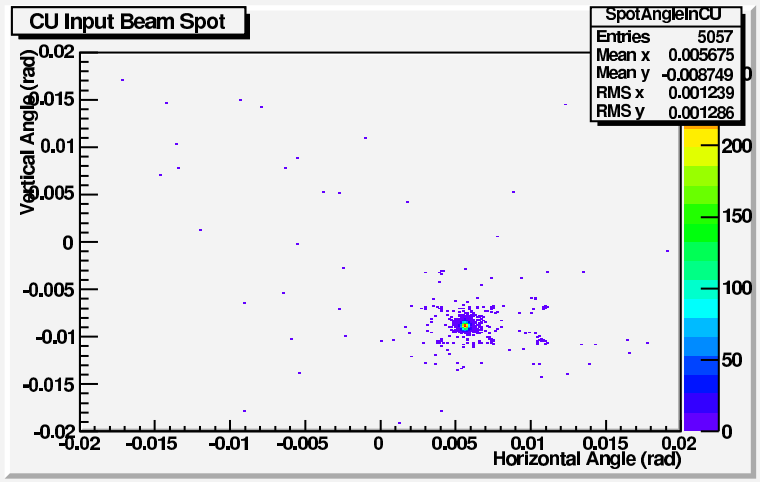

CU Input Horizontal coordinate
HorCoordInCU
Entries 5057
Mean 338.2
RMS 9.003
Position (mm)

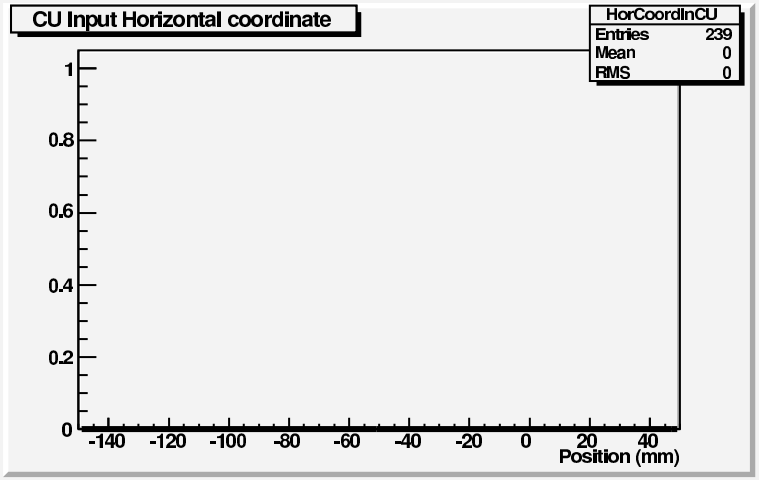

CU Input vertical coordinate
VertCoordInCU
Entries 5057
Mean 22.94
RMS 4.12
Position (mm)

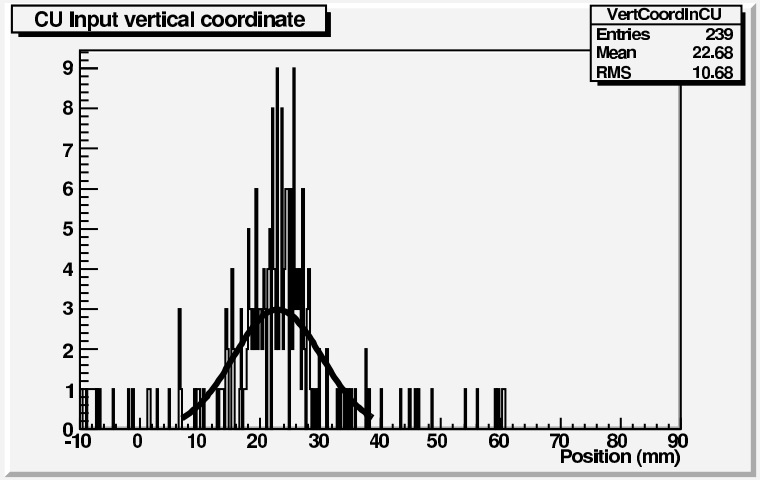

CU Input horizontal angle
HorAngleInCU
Entries 5057
Mean -0.008697
RMS 0.001574
Angle (rad)

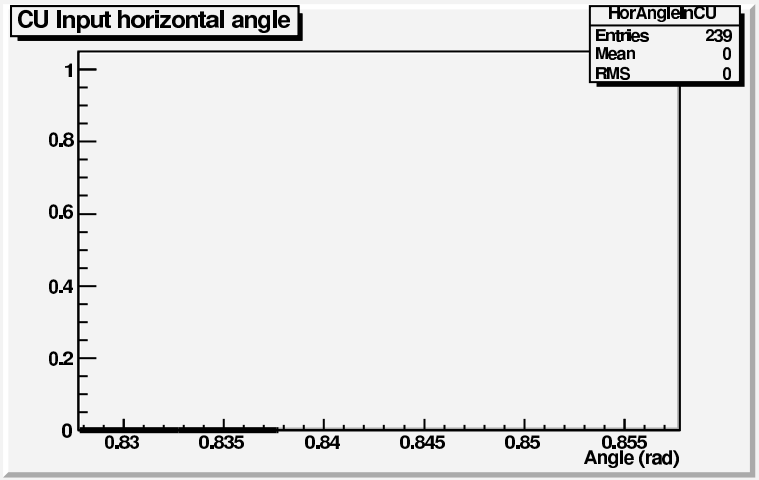

CU Input vertical angle
VertAngleInCU
Entries 5057
Mean 0.005659
RMS 0.00143
Angle (rad)

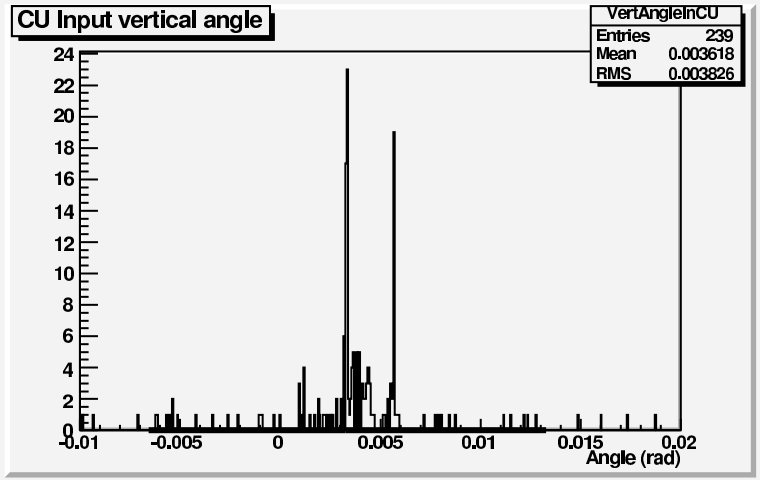

CU Input Beam Spot
SpotCoordInCU
Entries 5057
Mean x 338.3
Mean y 23.73
RMS x 4.965
RMS y 2.701
Vertical Position (mm)
Horizontal Position (mm)

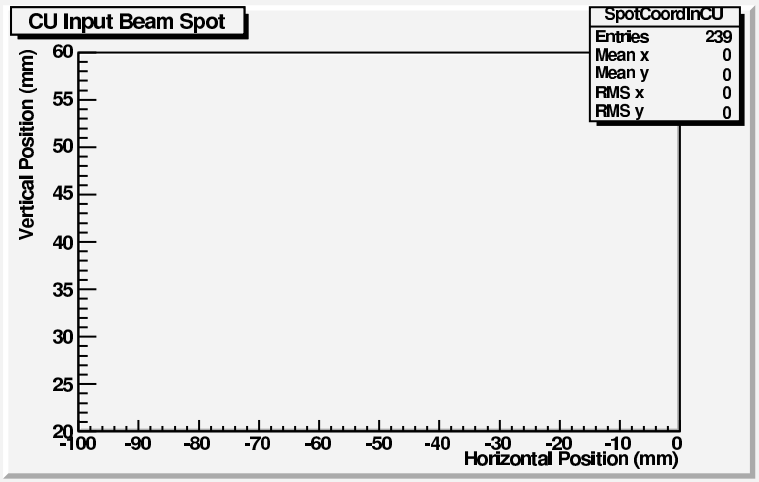

CU Input Beam Spot
SpotAngleInCU
Entries 5057
Mean x 0.005675
Mean y -0.008749
RMS x 0.001239
RMS y 0.001286
Vertical Angle (rad)
Horizontal Angle (rad)

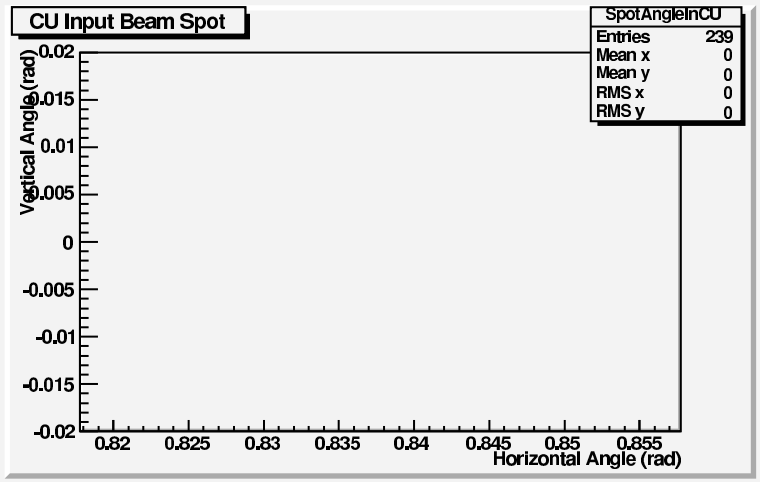

CU Input Horizontal coordinate
HorCoordInCU
Entries 239
Mean 0
RMS 0
Position (mm)

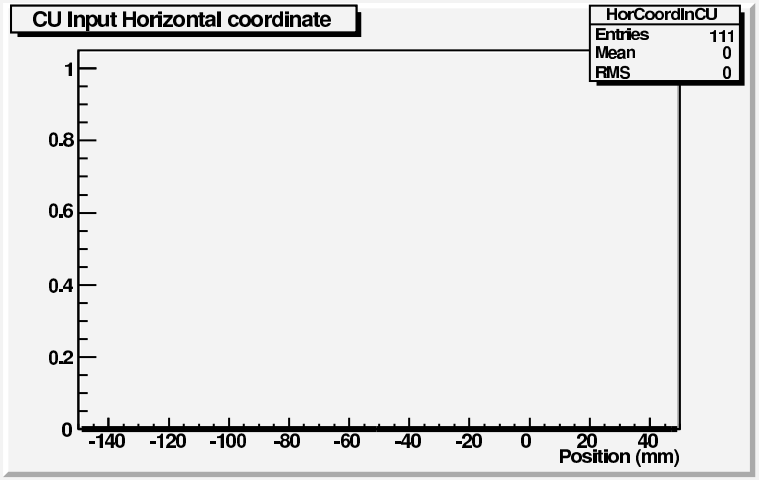

CU Input vertical coordinate
VertCoordInCU
Entries 239
Mean 22.68
RMS 10.68
Position (mm)

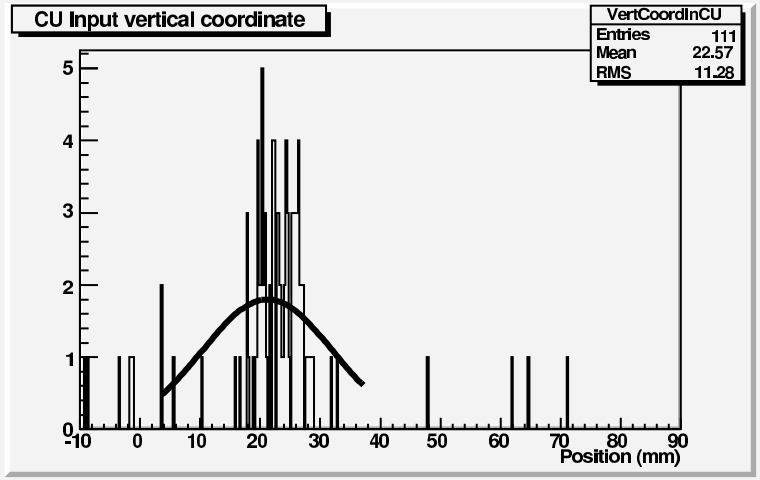

CU Input horizontal angle
HorAngleInCU
Entries 239
Mean 0
RMS 0
Angle (rad)

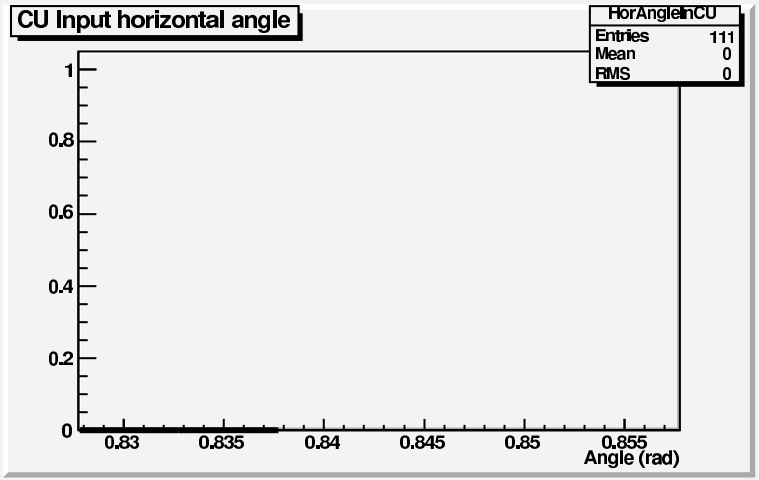

CU Input vertical angle
VertAngleInCU
Entries 239
Mean 0.003618
RMS 0.003826
Angle (rad)

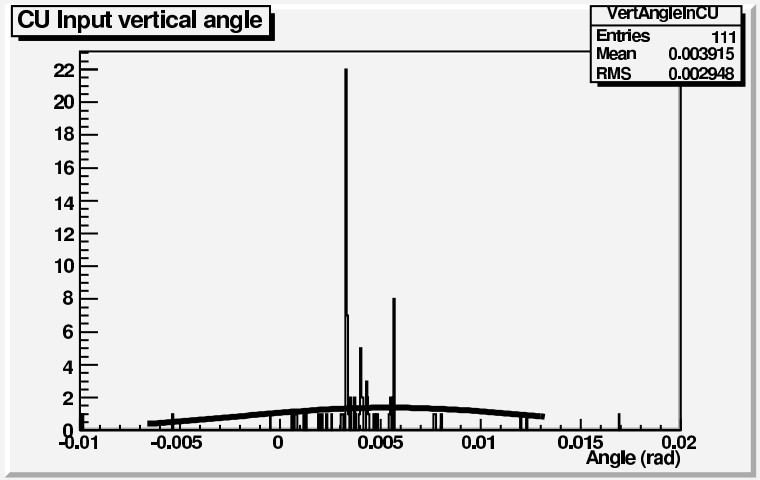

CU Input Beam Spot
SpotCoordInCU
Entries 239
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Position (mm)
Horizontal Position (mm)

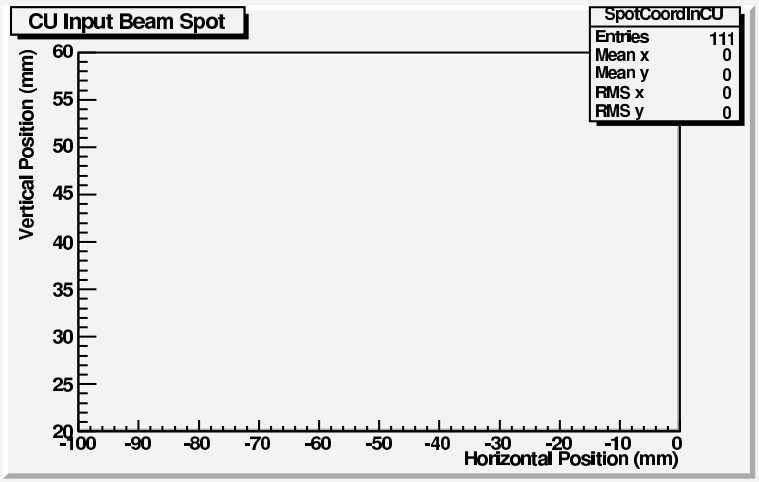

CU Input Beam Spot
SpotAngleInCU
Entries 239
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

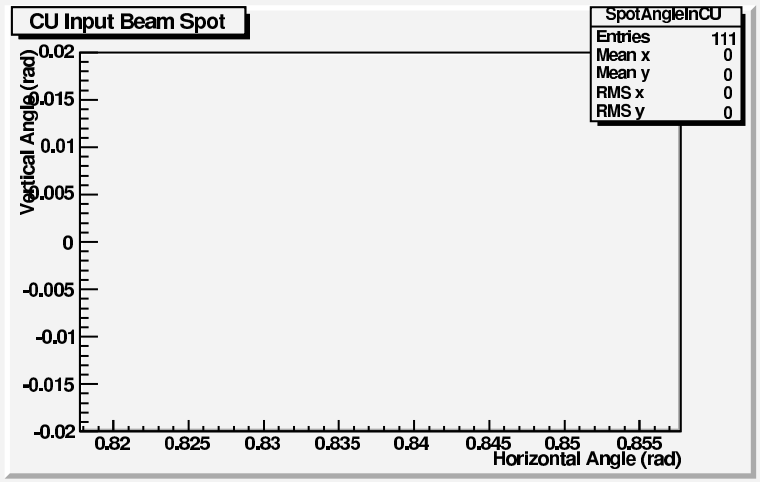

CU Input Horizontal coordinate
HorCoordInCU
Entries 111
Mean 0
RMS 0
Position (mm)

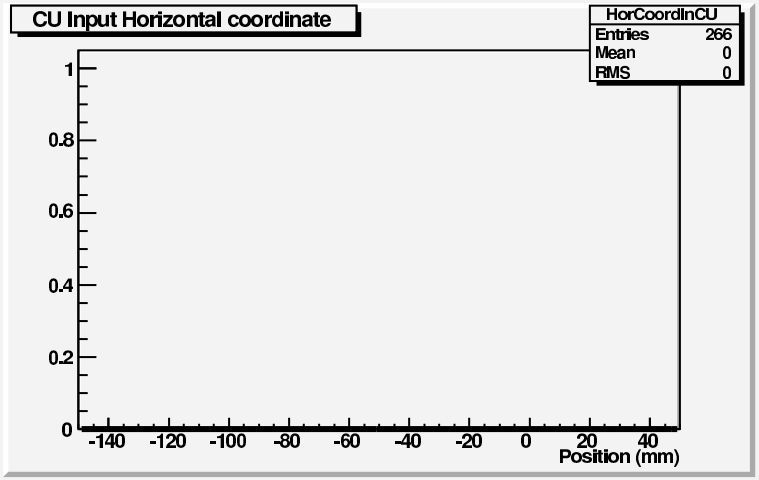

CU Input vertical coordinate
VertCoordInCU
Entries 111
Mean 22.57
RMS 11.28
Position (mm)

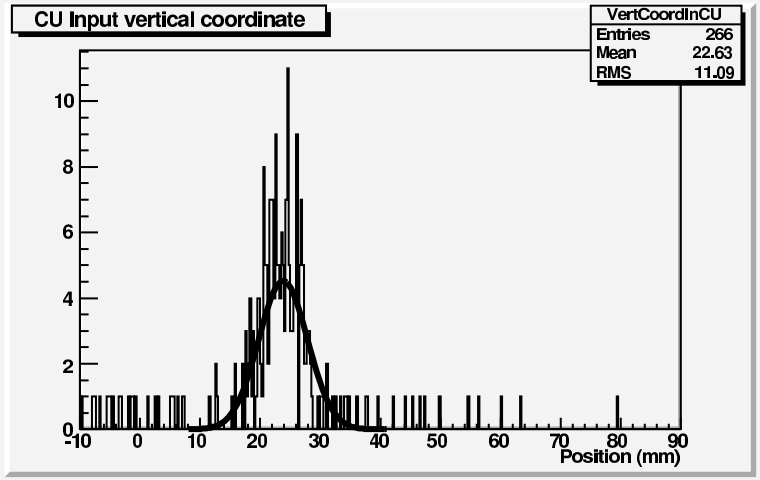

CU Input horizontal angle
HorAngleInCU
Entries 111
Mean 0
RMS 0
Angle (rad)

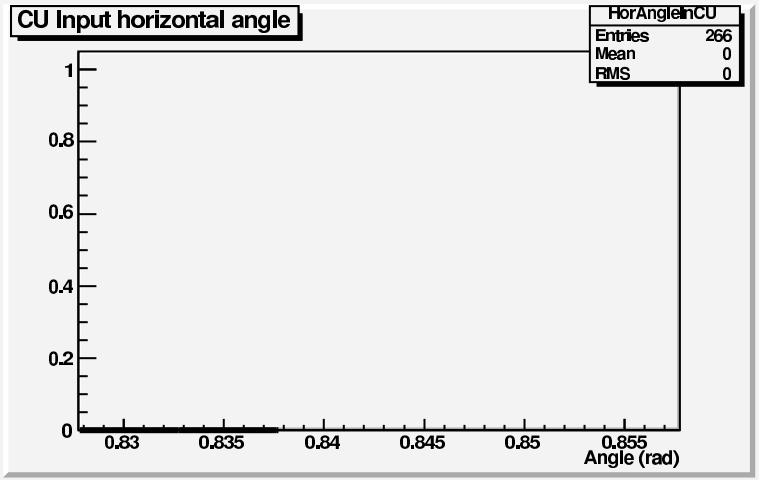

CU Input vertical angle
VertAngleInCU
Entries 111
Mean 0.003915
RMS 0.002948
Angle (rad)

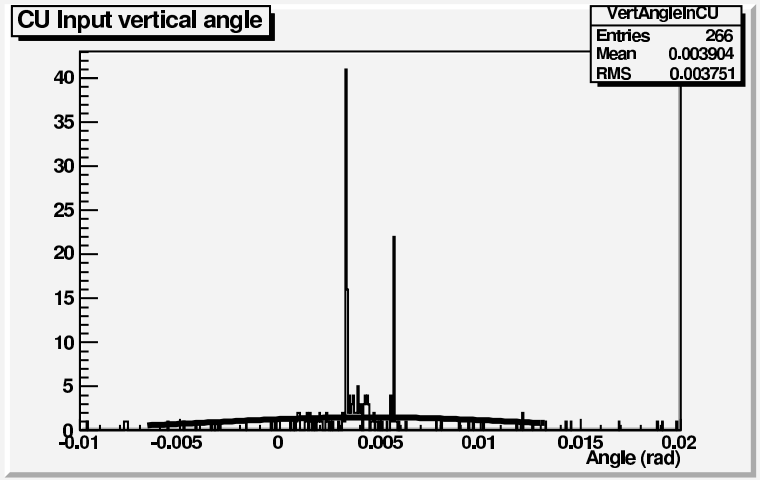

CU Input Beam Spot
SpotCoordInCU
Entries 111
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Position (mm)
Horizontal Position (mm)

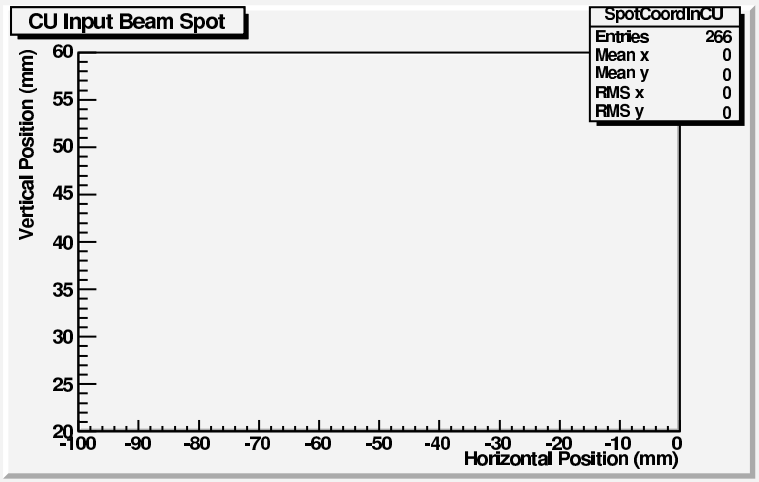

CU Input Beam Spot
SpotAngleInCU
Entries 111
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

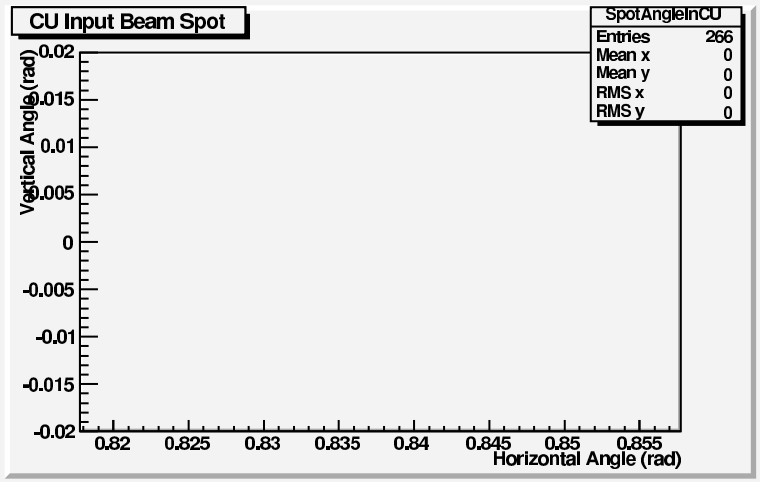

CU Input Horizontal coordinate
HorCoordInCU
Entries 266
Mean 0
RMS 0
Position (mm)

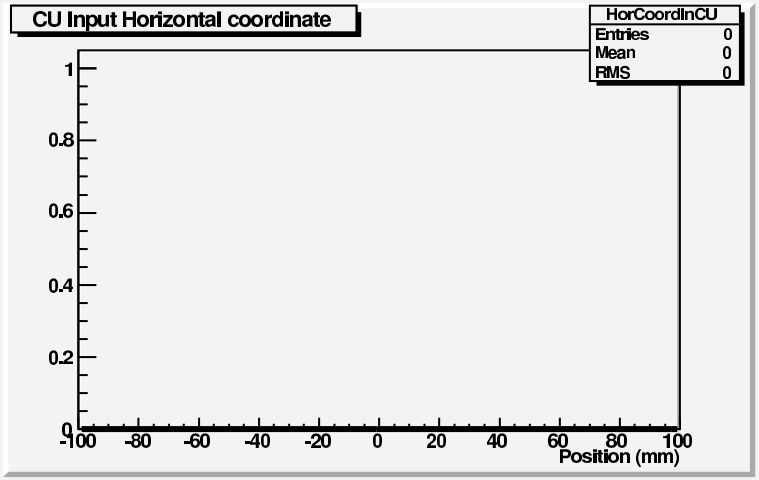

CU Input vertical coordinate
VertCoordInCU
Entries 266
Mean 22.63
RMS 11.09
Position (mm)

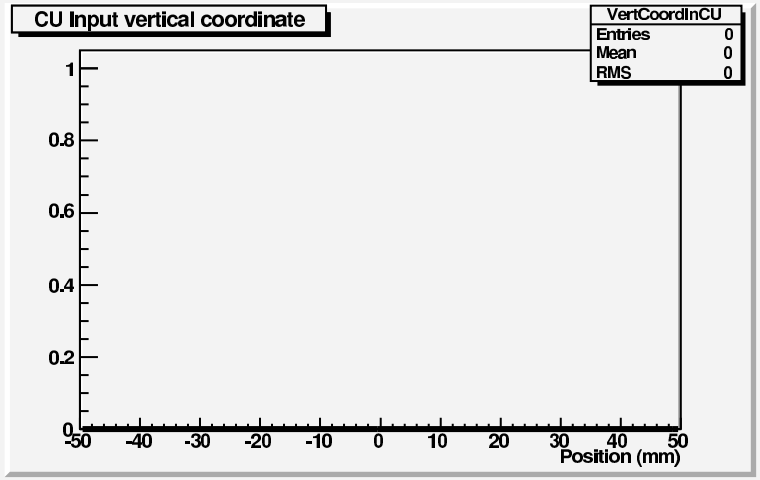

CU Input horizontal angle
HorAngleInCU
Entries 266
Mean 0
RMS 0
Angle (rad)

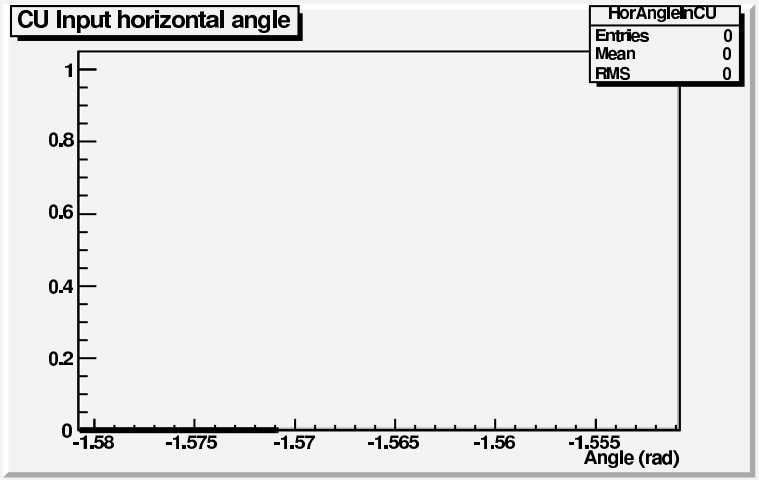

CU Input vertical angle
VertAngleInCU
Entries 266
Mean 0.003904
RMS 0.003751
Angle (rad)

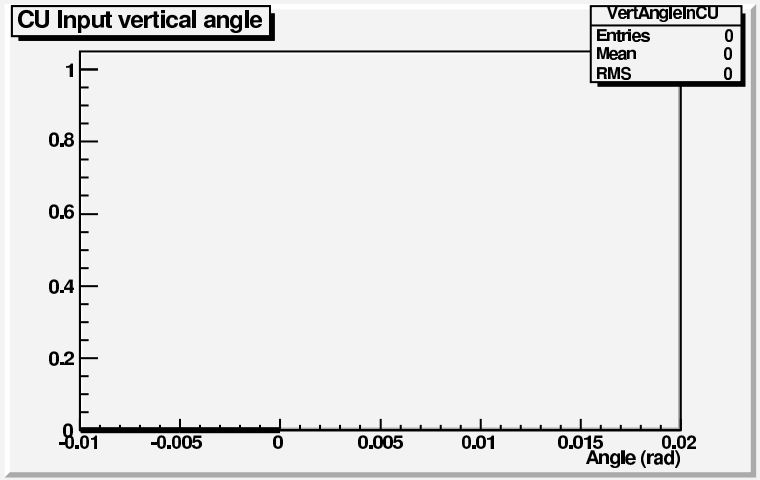

CU Input Beam Spot
SpotCoordInCU
Entries 266
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Position (mm)
Horizontal Position (mm)

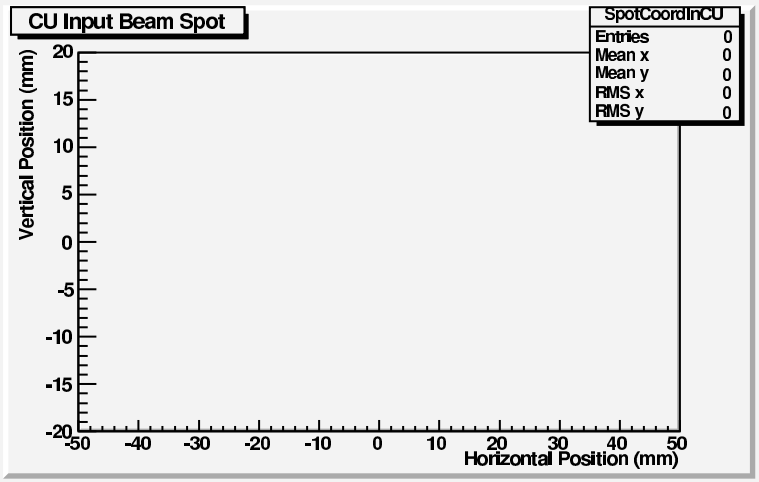

CU Input Beam Spot
SpotAngleInCU
Entries 266
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

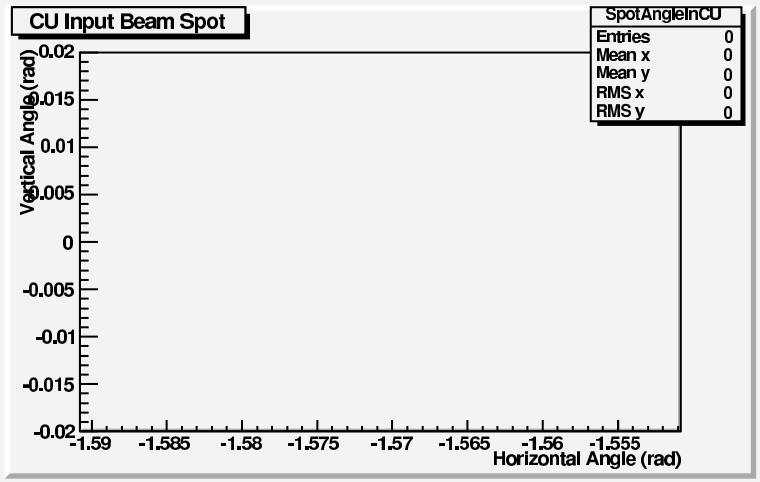

CU Input Horizontal coordinate
HorCoordInCU
Entries 0
Mean 0
RMS 0
Position (mm)

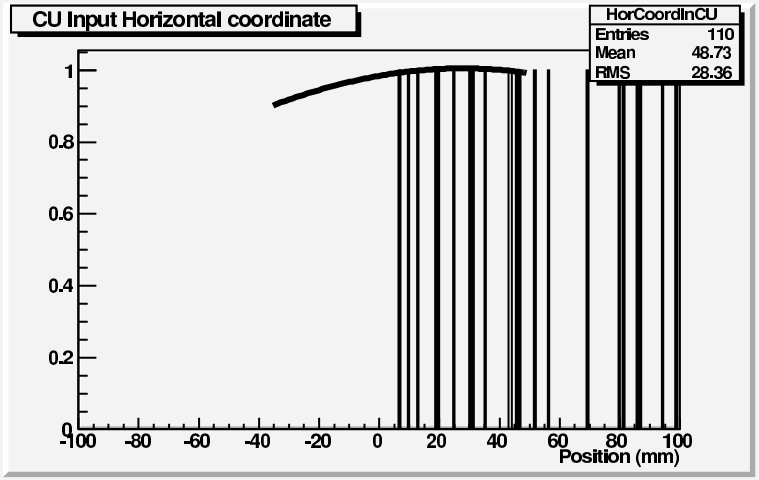

CU Input vertical coordinate
VertCoordInCU
Entries 0
Mean 0
RMS 0
Position (mm)

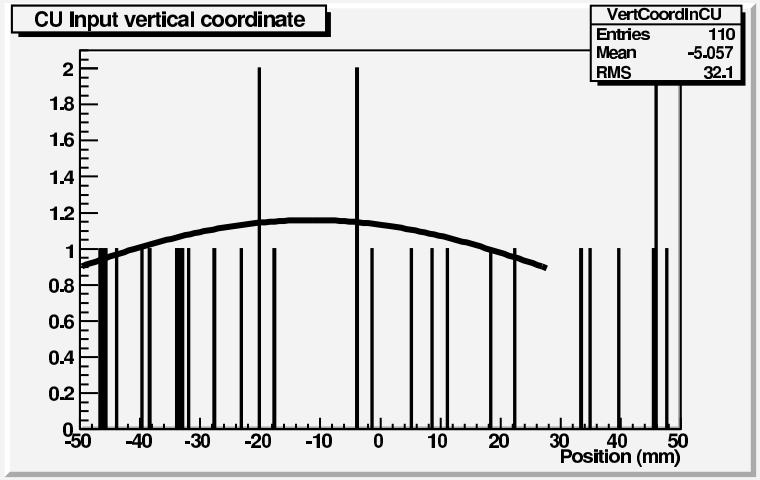

CU Input horizontal angle
HorAngleInCU
Entries 0
Mean 0
RMS 0
Angle (rad)

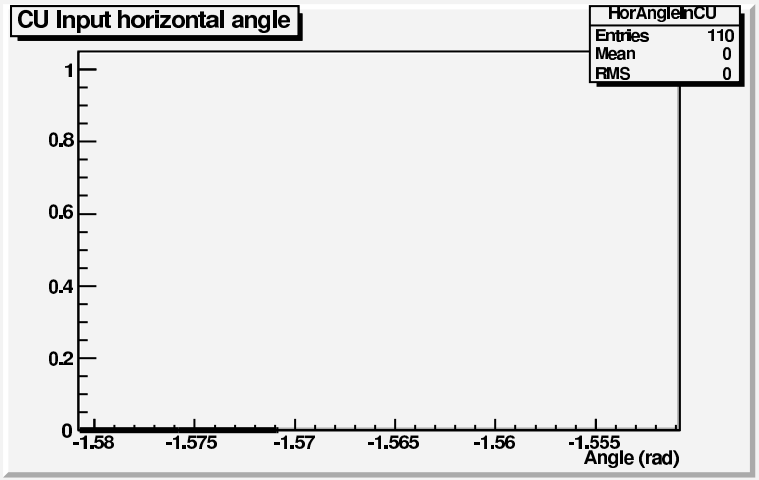

CU Input vertical angle
VertAngleInCU
Entries 0
Mean 0
RMS 0
Angle (rad)

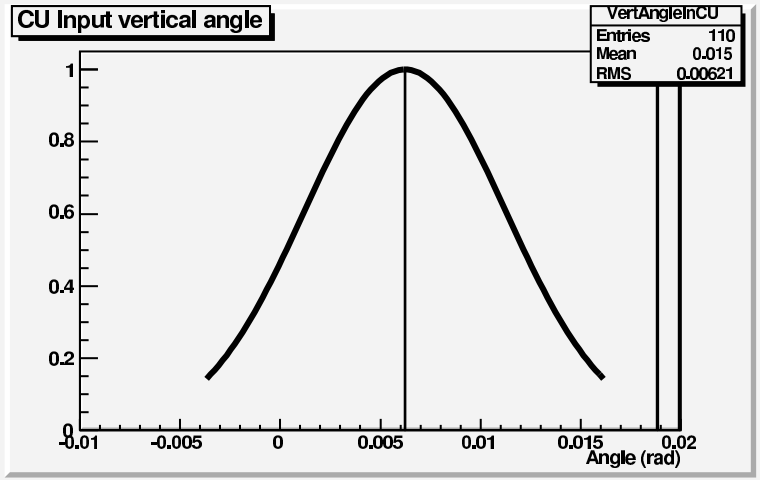

CU Input Beam Spot
SpotCoordInCU
Entries 0
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Position (mm)
Horizontal Position (mm)

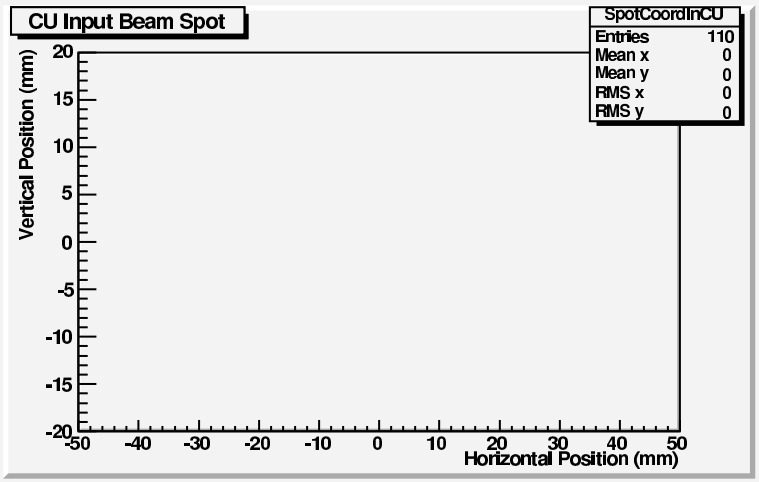

CU Input Beam Spot
SpotAngleInCU
Entries 0
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

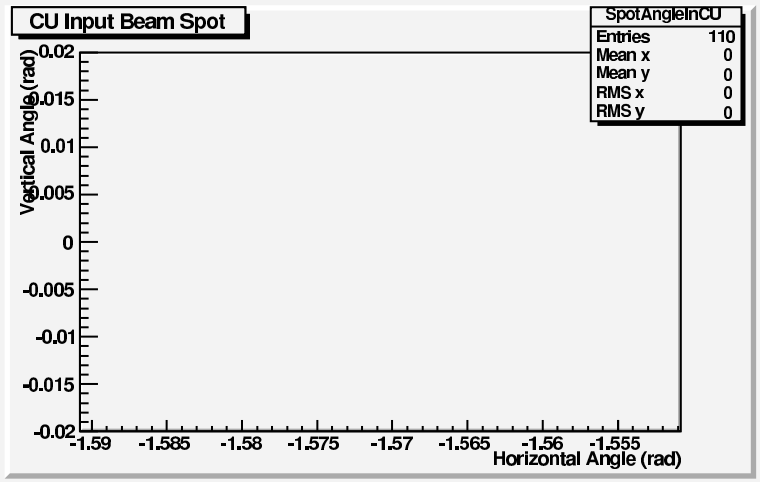

CU Input Horizontal coordinate
HorCoordInCU
Entries 110
Mean 48.73
RMS 28.36
Position (mm)

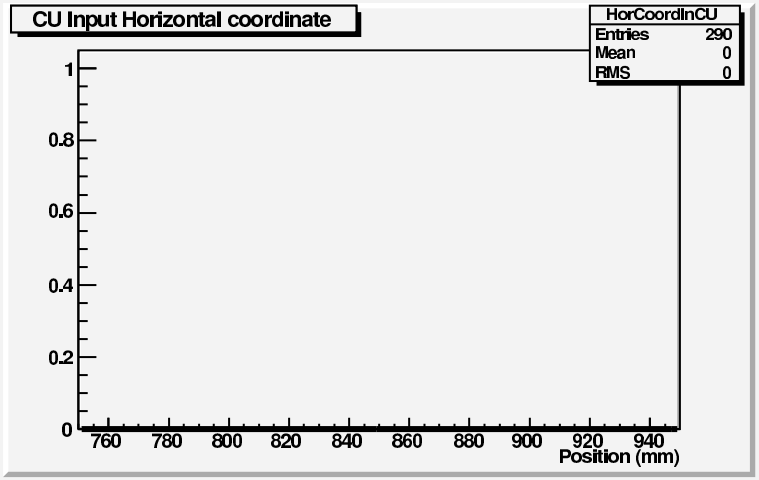

CU Input vertical coordinate
VertCoordInCU
Entries 110
Mean -5.057
RMS 32.1
Position (mm)

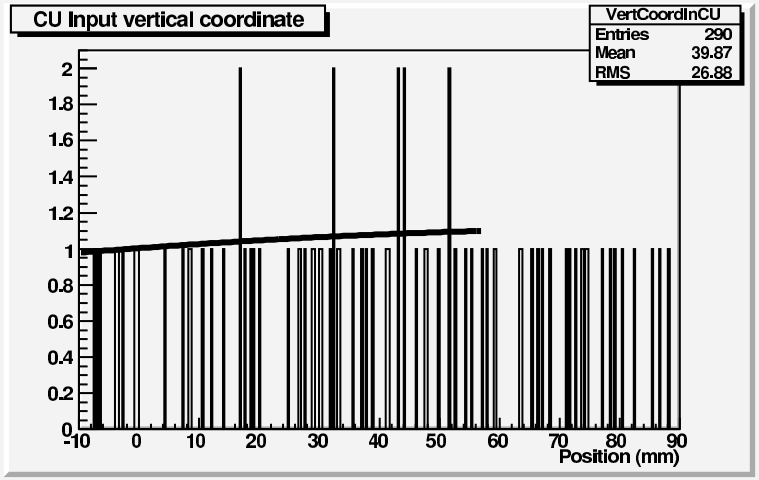

CU Input horizontal angle
HorAngleInCU
Entries 110
Mean 0
RMS 0
Angle (rad)

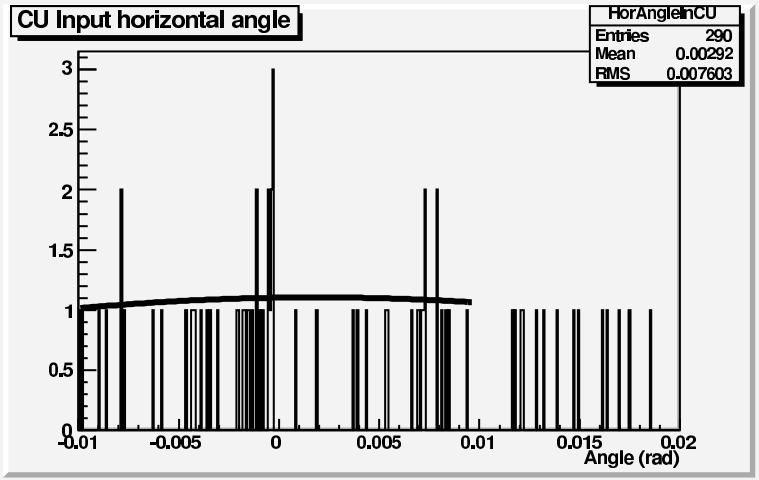

CU Input vertical angle
VertAngleInCU
Entries 110
Mean 0.015
RMS 0.00621
Angle (rad)

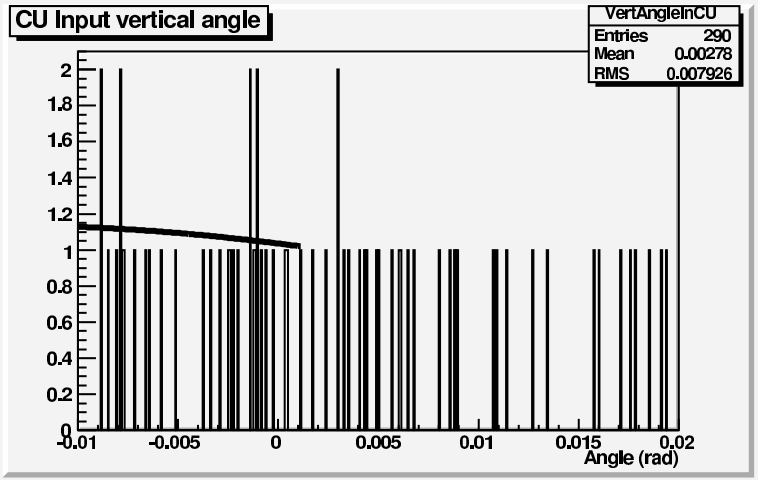

CU Input Beam Spot
SpotCoordInCU
Entries 110
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Position (mm)
Horizontal Position (mm)

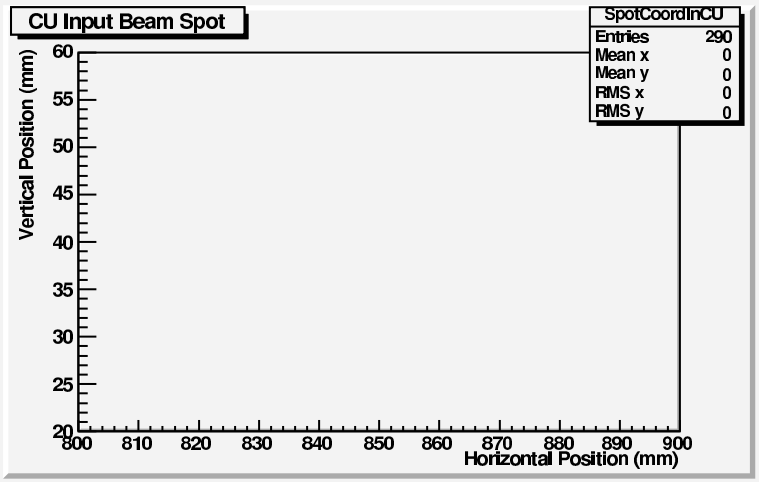

CU Input Beam Spot
SpotAngleInCU
Entries 110
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

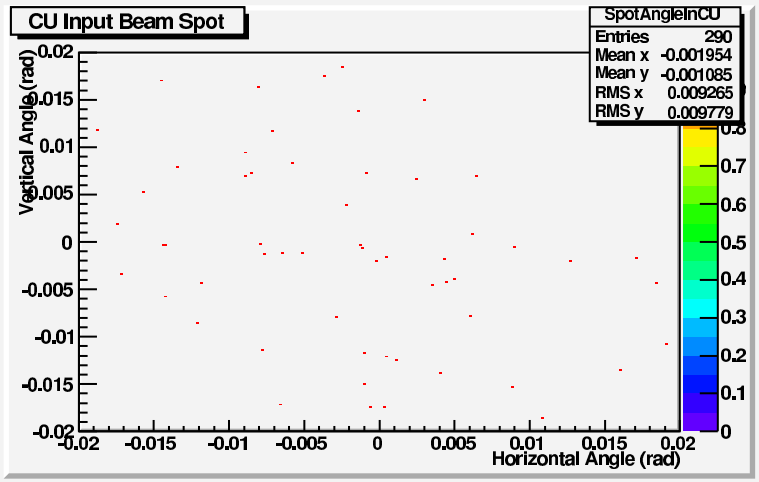

CU Input Horizontal coordinate
HorCoordInCU
Entries 290
Mean 0
RMS 0
Position (mm)

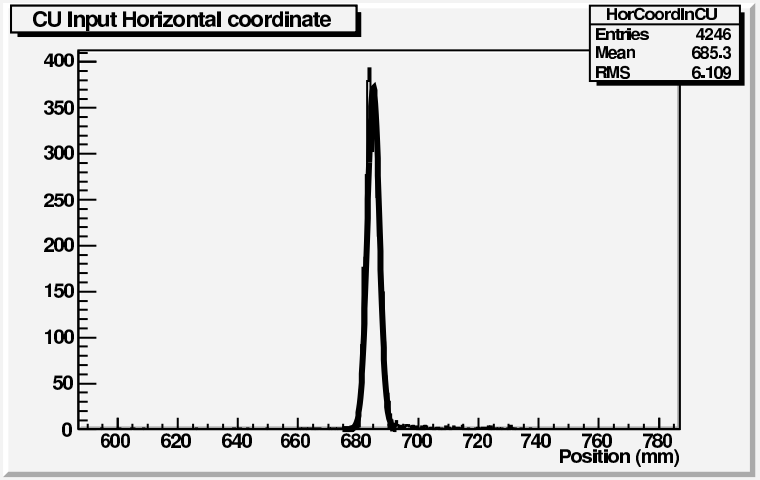

CU Input vertical coordinate
VertCoordInCU
Entries 290
Mean 39.87
RMS 26.88
Position (mm)

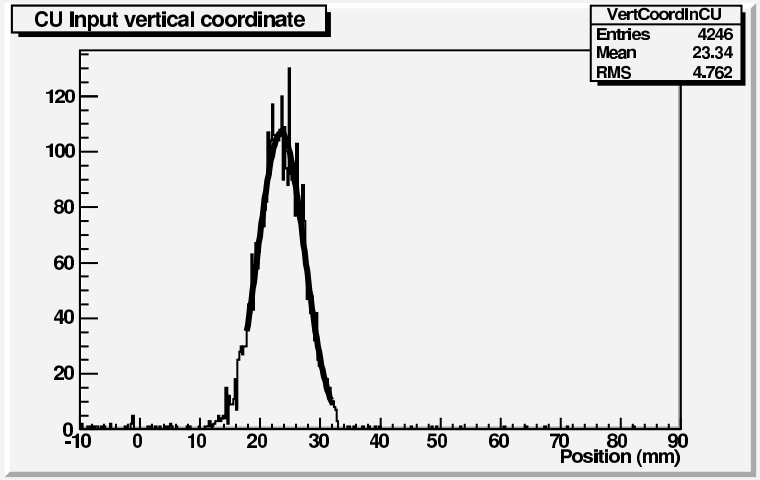

CU Input horizontal angle
HorAngleInCU
Entries 290
Mean 0.00292
RMS 0.007603
Angle (rad)

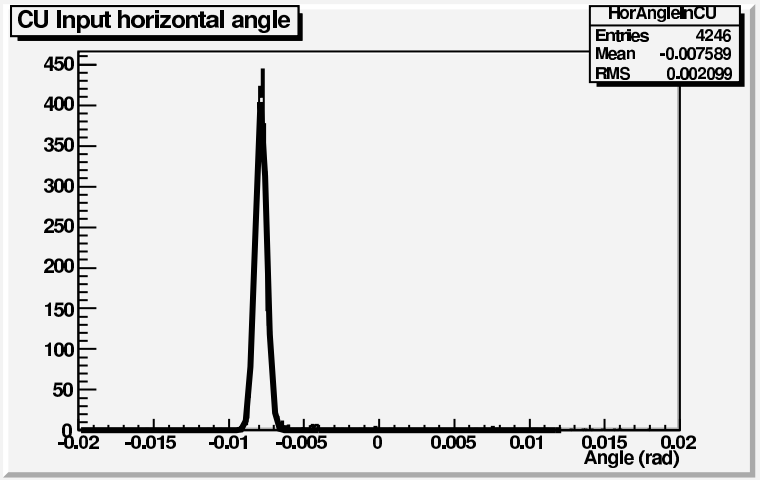

CU Input vertical angle
VertAngleInCU
Entries 290
Mean 0.00278
RMS 0.007926
Angle (rad)

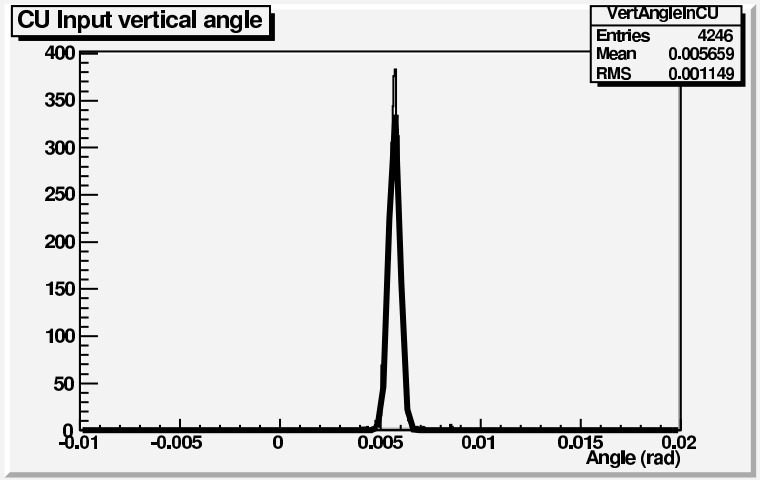

CU Input Beam Spot
SpotCoordInCU
Entries 290
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Position (mm)
Horizontal Position (mm)

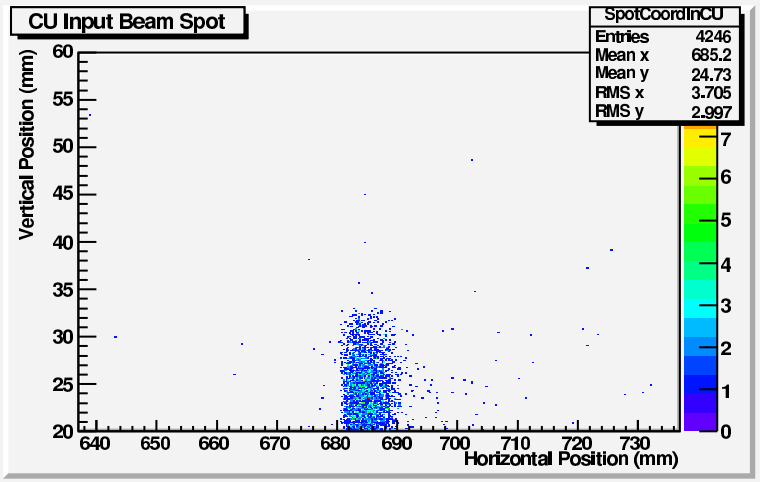

CU Input Beam Spot
SpotAngleInCU
Entries 290
Mean x -0.001954
Mean y -0.001085
RMS x 0.009265
RMS y 0.009779
Vertical Angle (rad)
Horizontal Angle (rad)

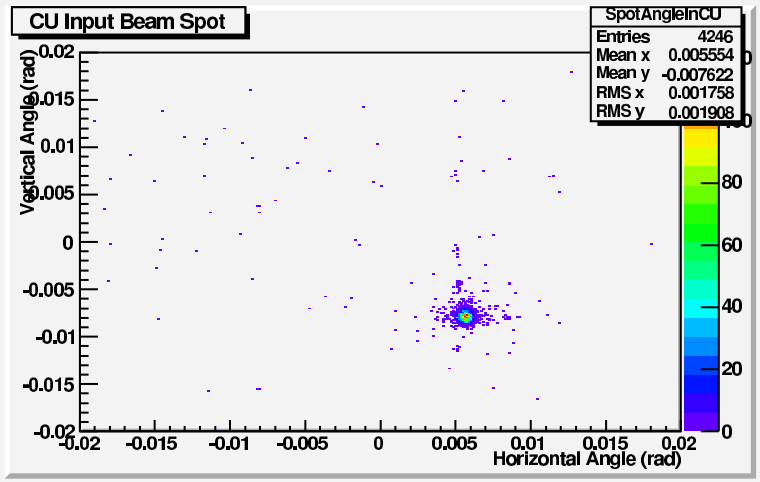

CU Input Horizontal coordinate
HorCoordInCU
Entries 4246
Mean 685.3
RMS 6.109
Position (mm)

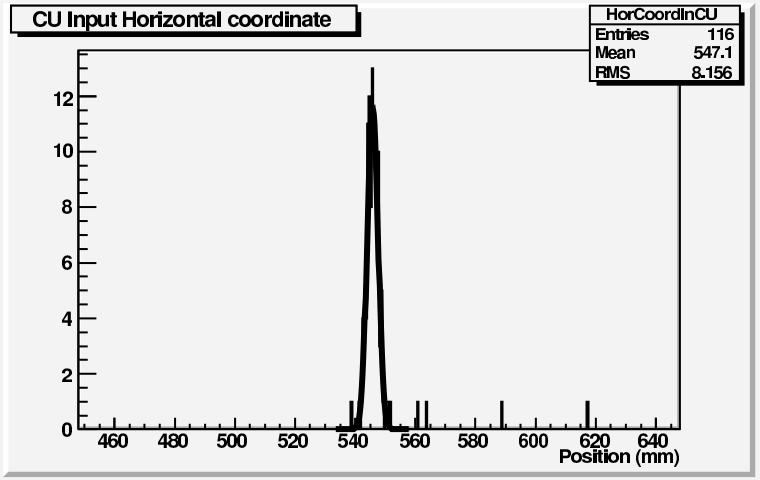

CU Input vertical coordinate
VertCoordInCU
Entries 4246
Mean 23.34
RMS 4.762
Position (mm)

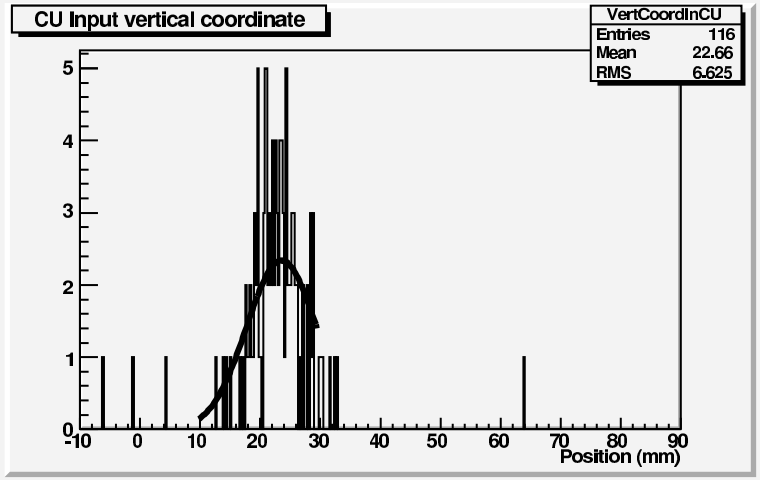

CU Input horizontal angle
HorAngleInCU
Entries 4246
Mean -0.007589
RMS 0.002099
Angle (rad)

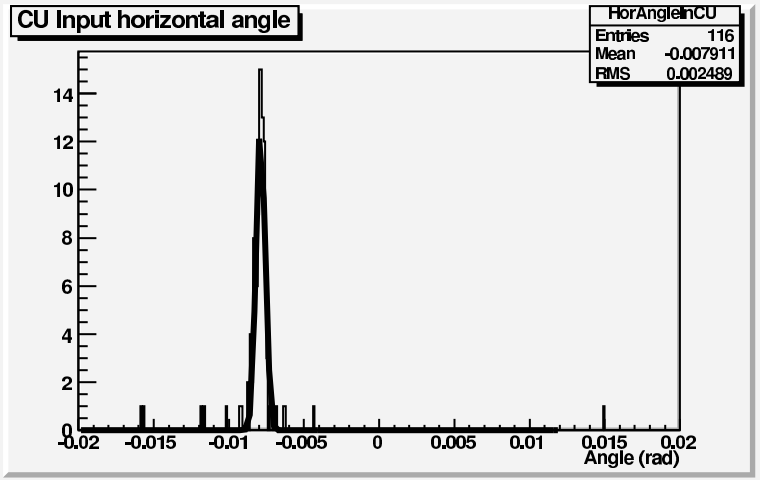

CU Input vertical angle
VertAngleInCU
Entries 4246
Mean 0.005659
RMS 0.001149
Angle (rad)

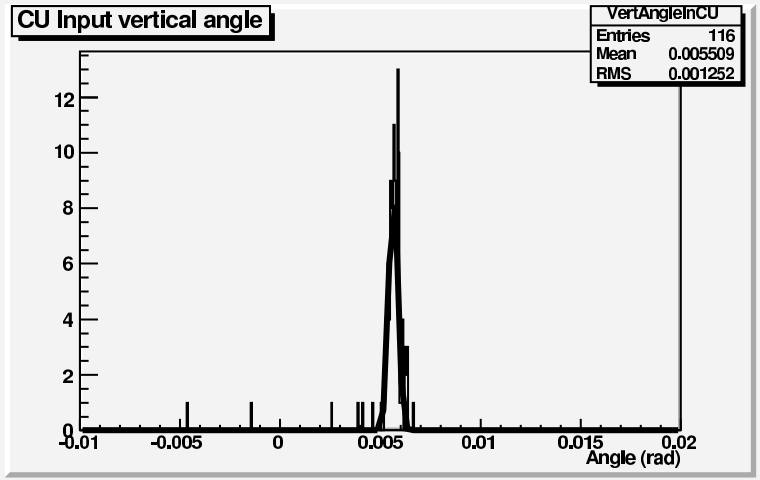

CU Input Beam Spot
SpotCoordInCU
Entries 4246
Mean x 685.2
Mean y 24.73
RMS x 3.705
RMS y 2.997
Vertical Position (mm)
Horizontal Position (mm)

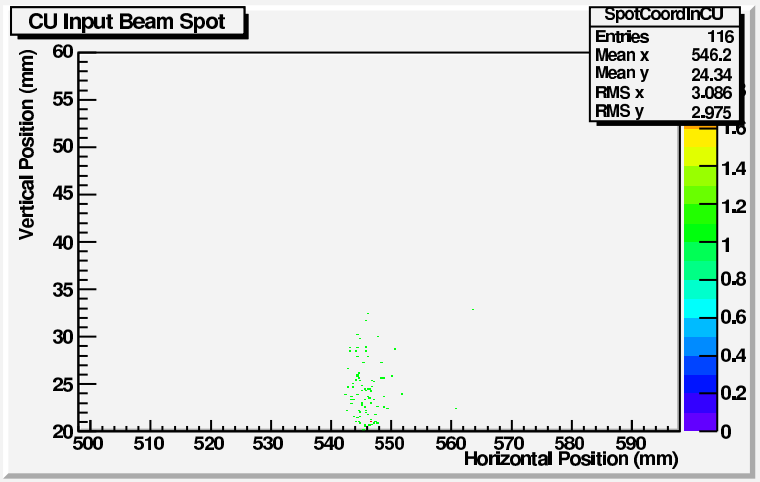

CU Input Beam Spot
SpotAngleInCU
Entries 4246
Mean x 0.005554
Mean y -0.007622
RMS x 0.001758
RMS y 0.001908
Vertical Angle (rad)
Horizontal Angle (rad)

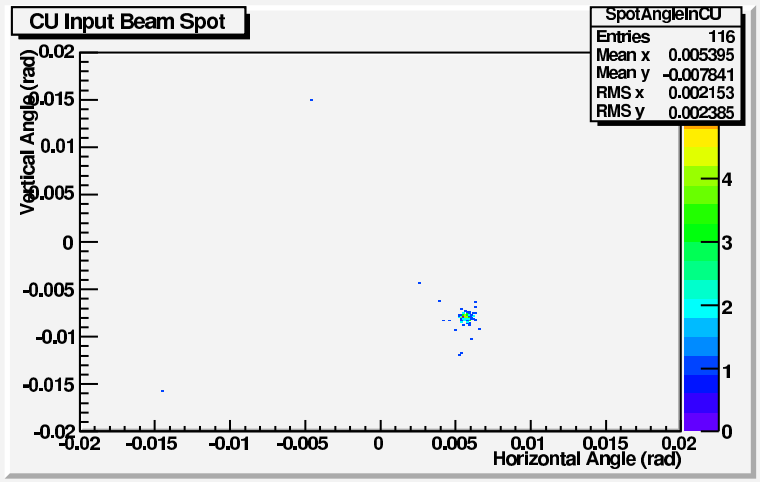

CU Input Horizontal coordinate
HorCoordInCU
Entries 116
Mean 547.1
RMS 8.156
Position (mm)

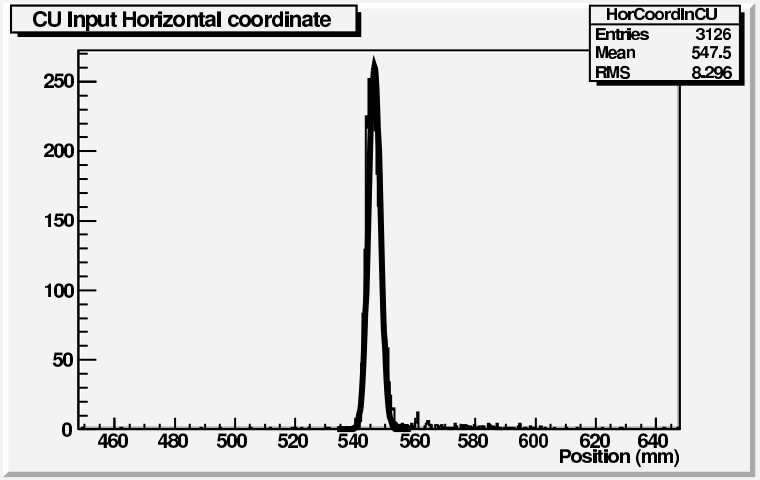

CU Input vertical coordinate
VertCoordInCU
Entries 116
Mean 22.66
RMS 6.625
Position (mm)

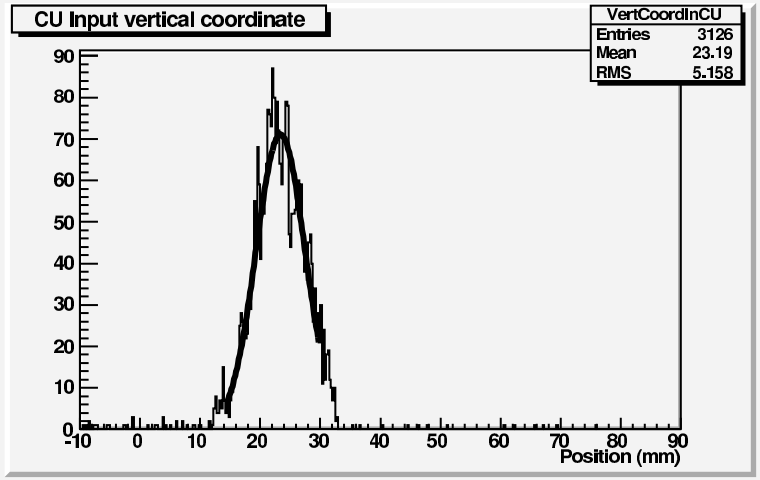

CU Input horizontal angle
HorAngleInCU
Entries 116
Mean -0.007911
RMS 0.002489
Angle (rad)

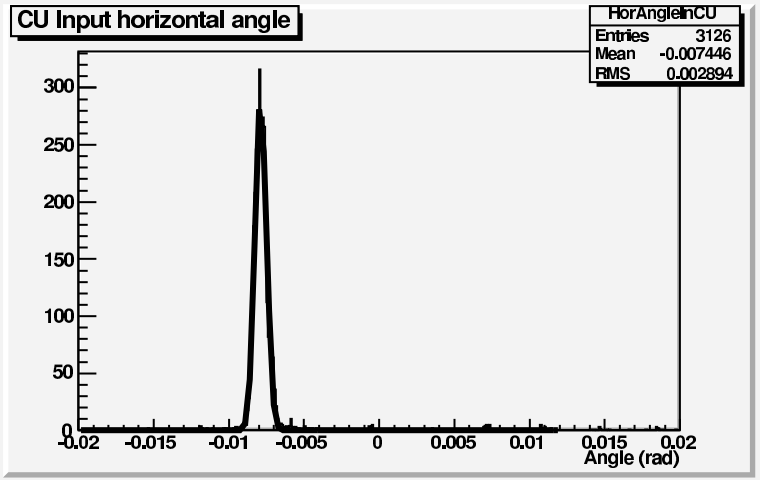

CU Input vertical angle
VertAngleInCU
Entries 116
Mean 0.005509
RMS 0.001252
Angle (rad)

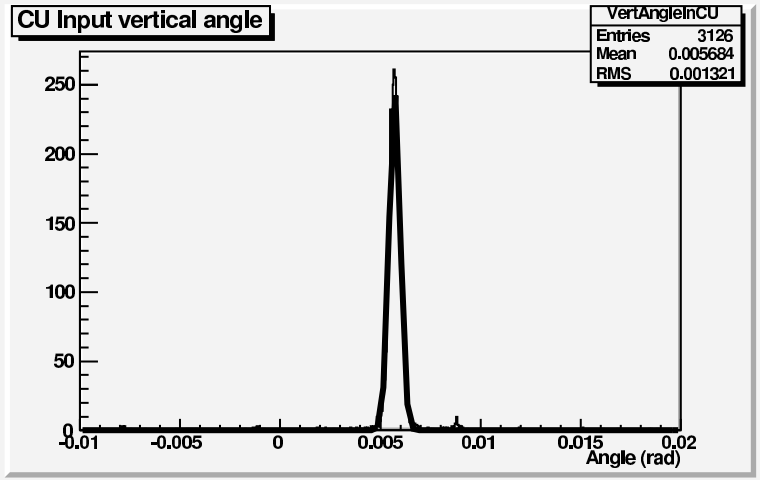

CU Input Beam Spot
SpotCoordInCU
Entries 116
Mean x 546.2
Mean y 24.34
RMS x 3.086
RMS y 2.975
Vertical Position (mm)
Horizontal Position (mm)

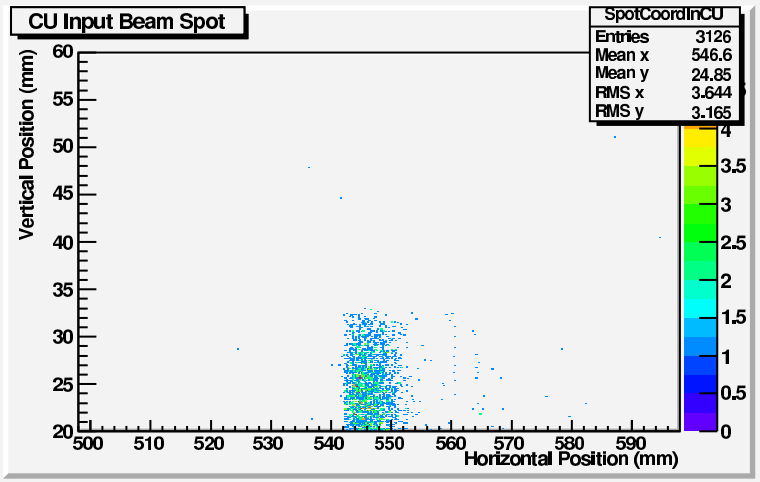

CU Input Beam Spot
SpotAngleInCU
Entries 116
Mean x 0.005395
Mean y -0.007841
RMS x 0.002153
RMS y 0.002385
Vertical Angle (rad)
Horizontal Angle (rad)

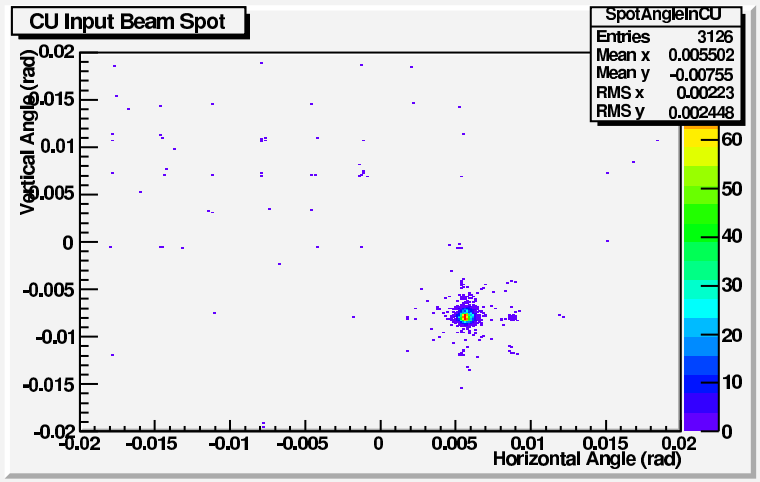

CU Input Horizontal coordinate
HorCoordInCU
Entries 3126
Mean 547.5
RMS 8.296
Position (mm)

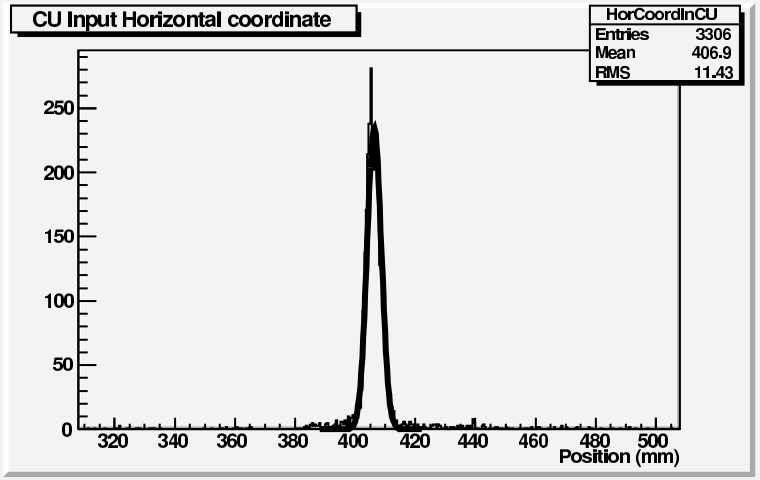

CU Input vertical coordinate
VertCoordInCU
Entries 3126
Mean 23.19
RMS 5.158
Position (mm)

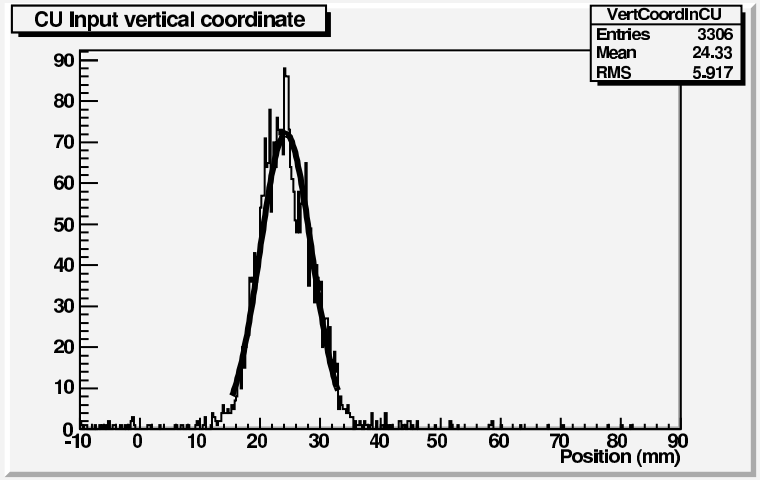

CU Input horizontal angle
HorAngleInCU
Entries 3126
Mean -0.007446
RMS 0.002894
Angle (rad)

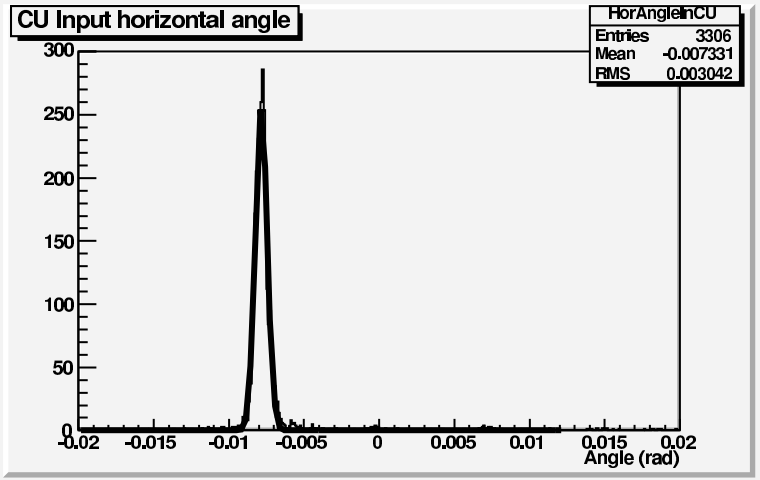

CU Input vertical angle
VertAngleInCU
Entries 3126
Mean 0.005684
RMS 0.001321
Angle (rad)

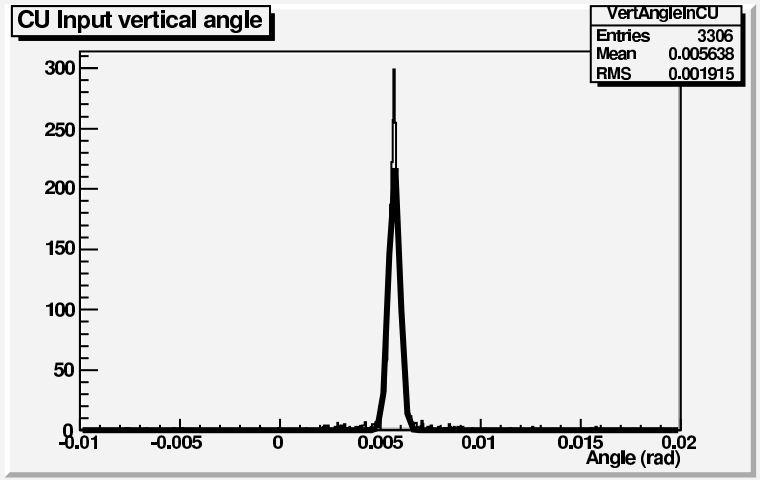

CU Input Beam Spot
SpotCoordInCU
Entries 3126
Mean x 546.6
Mean y 24.85
RMS x 3.644
RMS y 3.165
Vertical Position (mm)
Horizontal Position (mm)

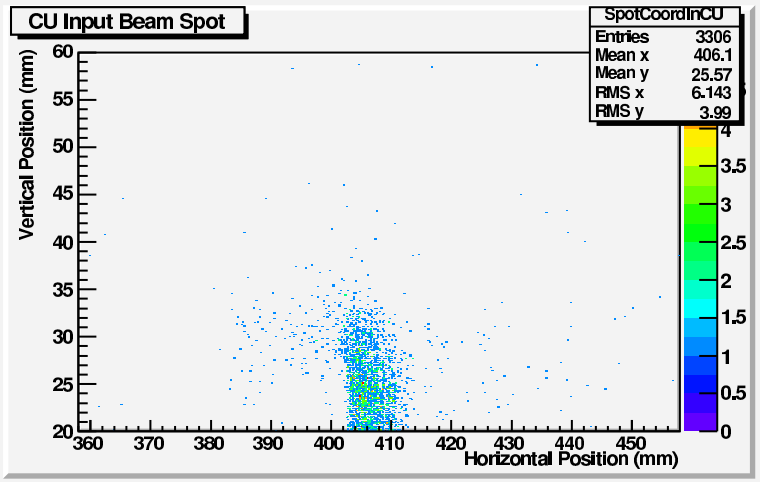

CU Input Beam Spot
SpotAngleInCU
Entries 3126
Mean x 0.005502
Mean y -0.00755
RMS x 0.00223
RMS y 0.002448
Vertical Angle (rad)
Horizontal Angle (rad)

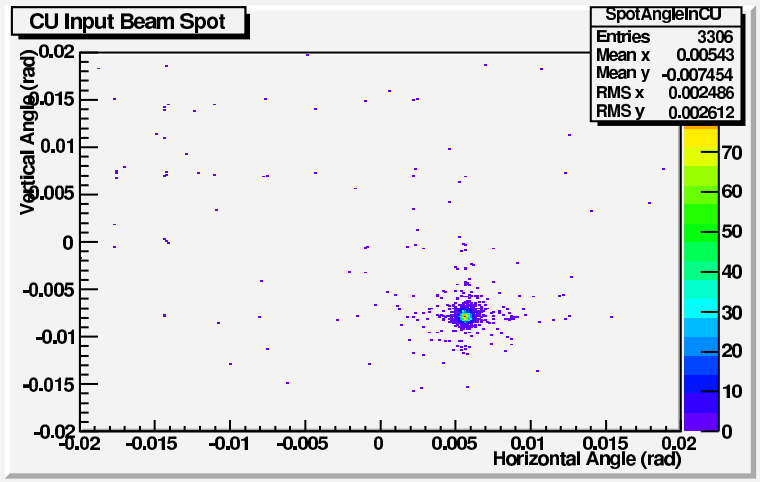

CU Input Horizontal coordinate
HorCoordInCU
Entries 3306
Mean 406.9
RMS 11.43
Position (mm)

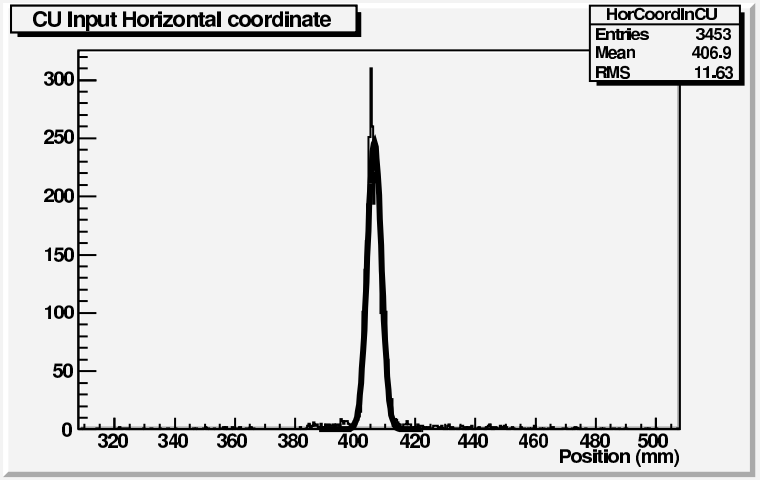

CU Input vertical coordinate
VertCoordInCU
Entries 3306
Mean 24.33
RMS 5.917
Position (mm)

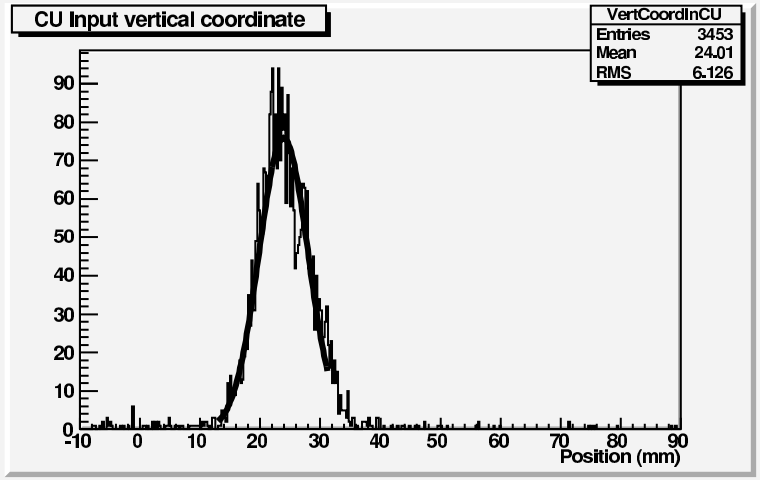

CU Input horizontal angle
HorAngleInCU
Entries 3306
Mean -0.007331
RMS 0.003042
Angle (rad)

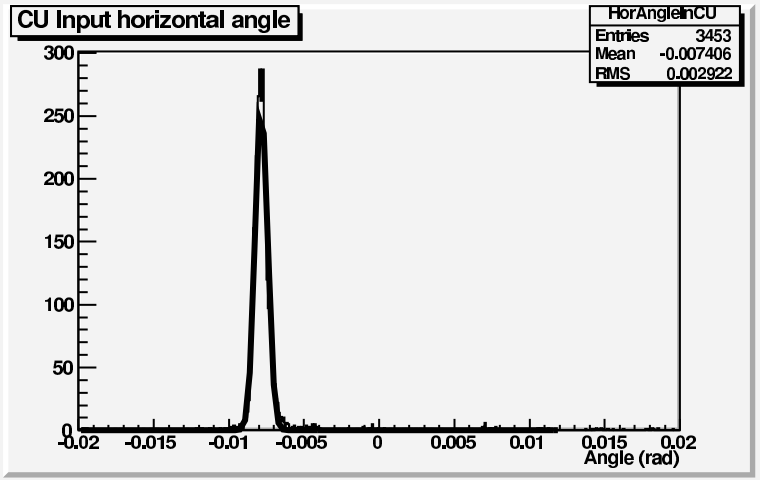

CU Input vertical angle
VertAngleInCU
Entries 3306
Mean 0.005638
RMS 0.001915
Angle (rad)

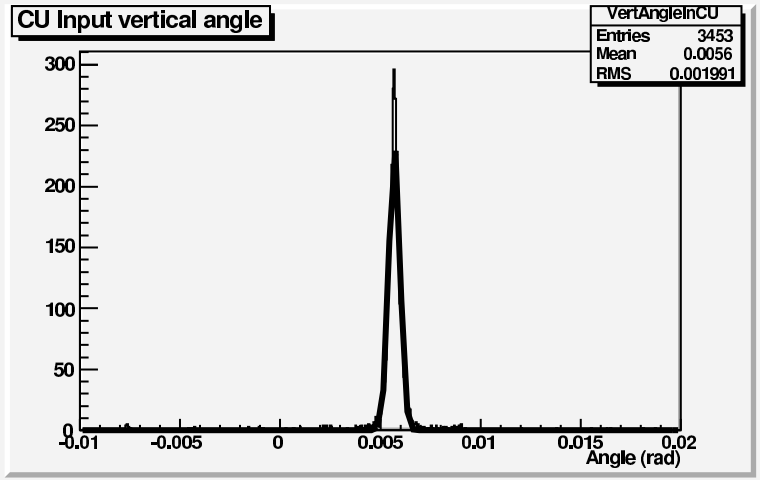

CU Input Beam Spot
SpotCoordInCU
Entries 3306
Mean x 406.1
Mean y 25.57
RMS x 6.143
RMS y 3.99
Vertical Position (mm)
Horizontal Position (mm)

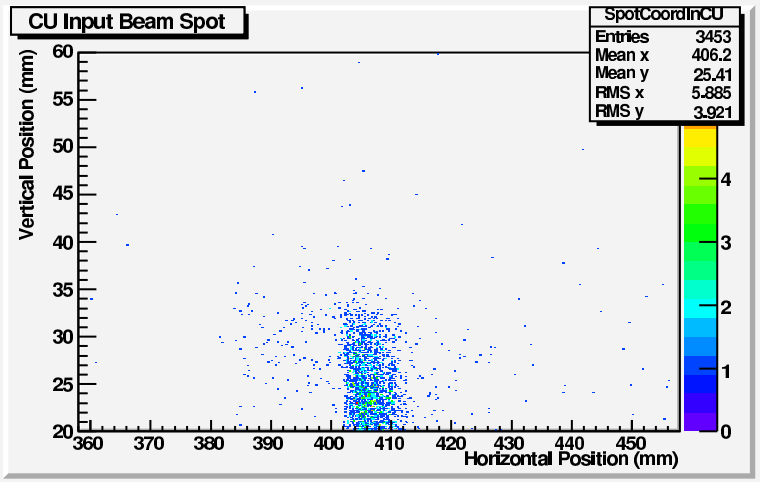

CU Input Beam Spot
SpotAngleInCU
Entries 3306
Mean x 0.00543
Mean y -0.007454
RMS x 0.002486
RMS y 0.002612
Vertical Angle (rad)
Horizontal Angle (rad)

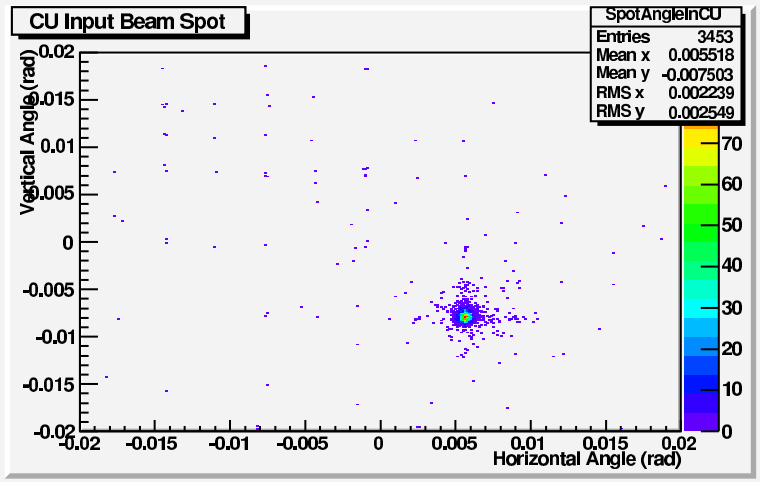

CU Input Horizontal coordinate
HorCoordInCU
Entries 3453
Mean 406.9
RMS 11.63
Position (mm)

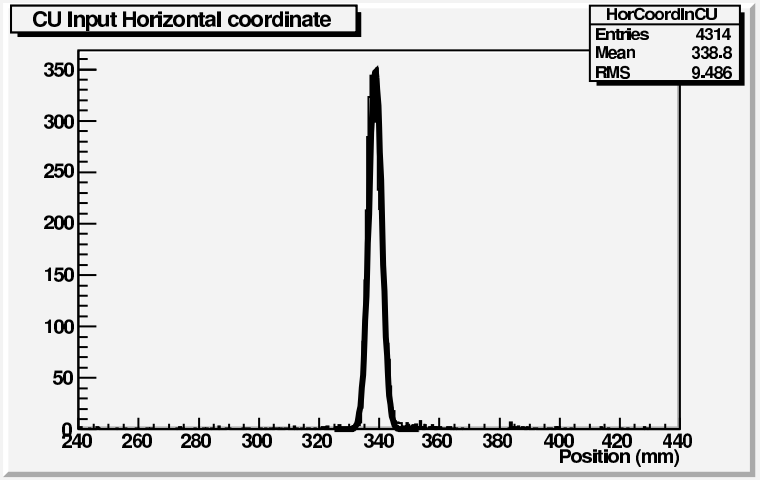

CU Input vertical coordinate
VertCoordInCU
Entries 3453
Mean 24.01
RMS 6.126
Position (mm)

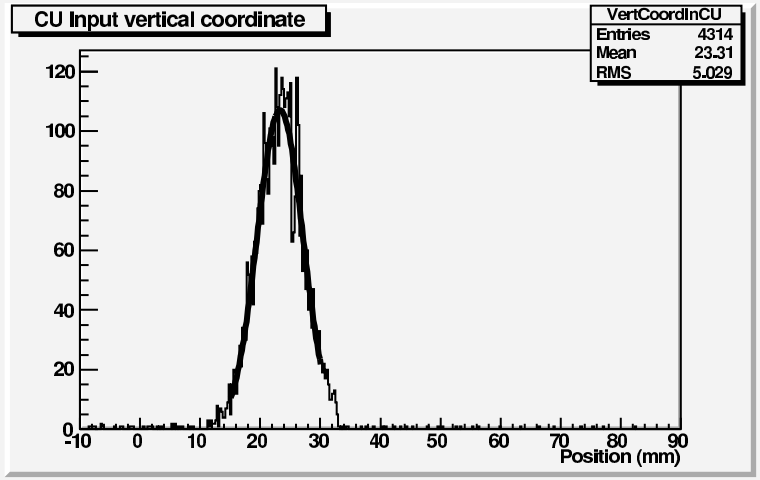

CU Input horizontal angle
HorAngleInCU
Entries 3453
Mean -0.007406
RMS 0.002922
Angle (rad)

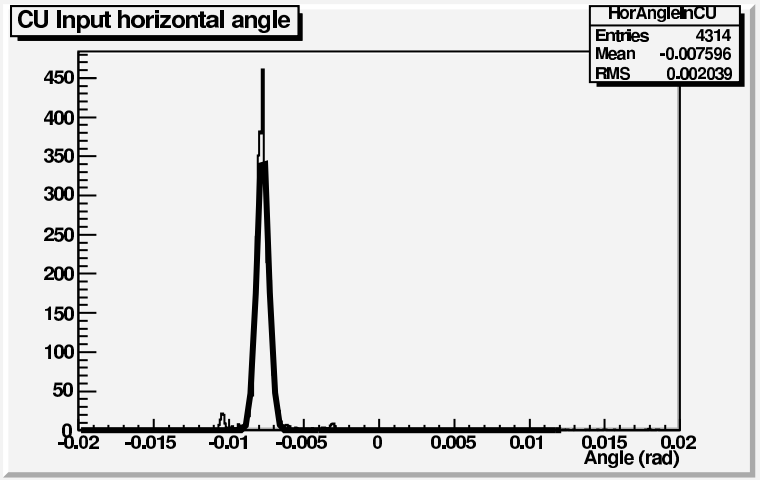

CU Input vertical angle
VertAngleInCU
Entries 3453
Mean 0.0056
RMS 0.001991
Angle (rad)

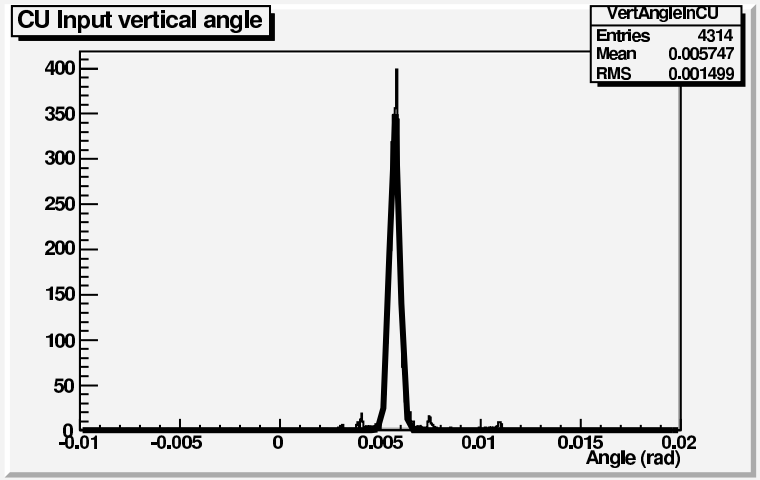

CU Input Beam Spot
SpotCoordInCU
Entries 3453
Mean x 406.2
Mean y 25.41
RMS x 5.885
RMS y 3.921
Vertical Position (mm)
Horizontal Position (mm)

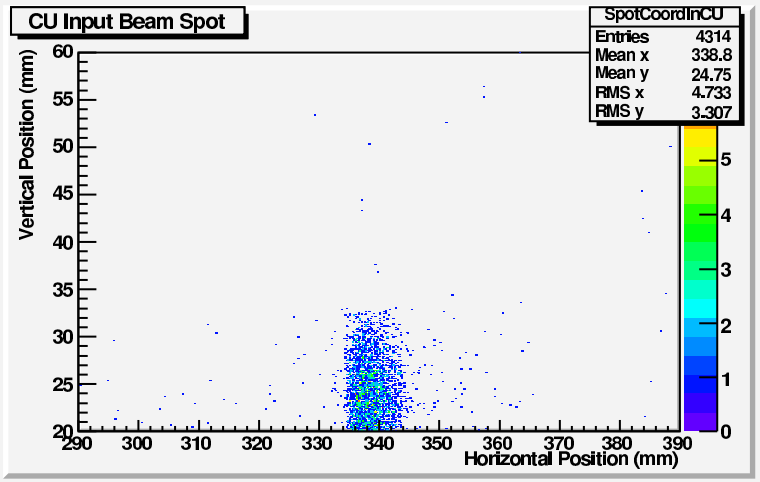

CU Input Beam Spot
SpotAngleInCU
Entries 3453
Mean x 0.005518
Mean y -0.007503
RMS x 0.002239
RMS y 0.002549
Vertical Angle (rad)
Horizontal Angle (rad)

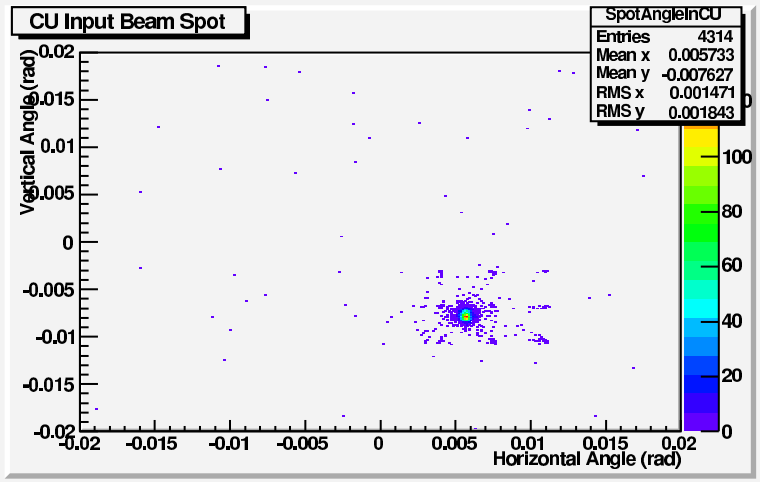

CU Input Horizontal coordinate
HorCoordInCU
Entries 4314
Mean 338.8
RMS 9.486
Position (mm)

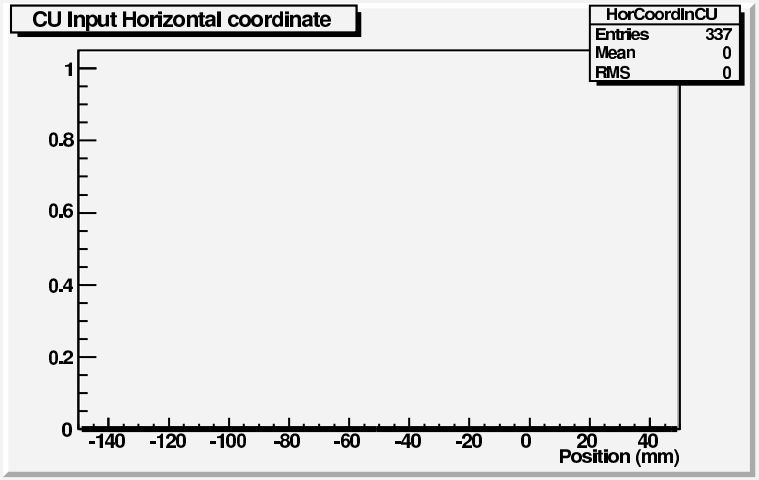

CU Input vertical coordinate
VertCoordInCU
Entries 4314
Mean 23.31
RMS 5.029
Position (mm)

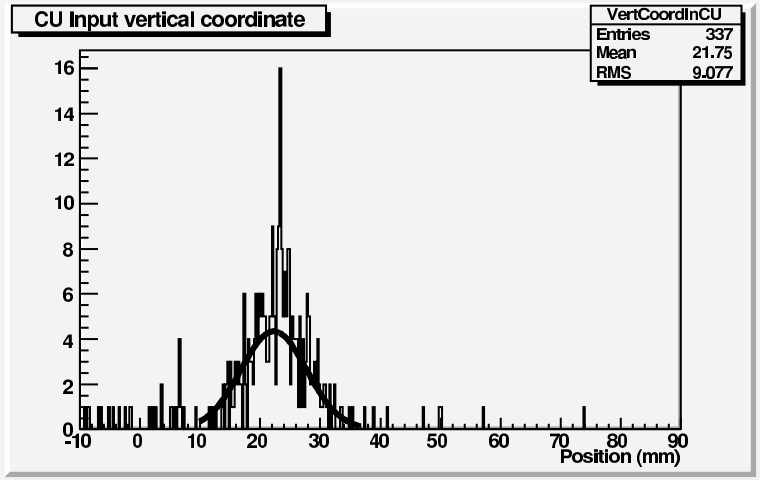

CU Input horizontal angle
HorAngleInCU
Entries 4314
Mean -0.007596
RMS 0.002039
Angle (rad)

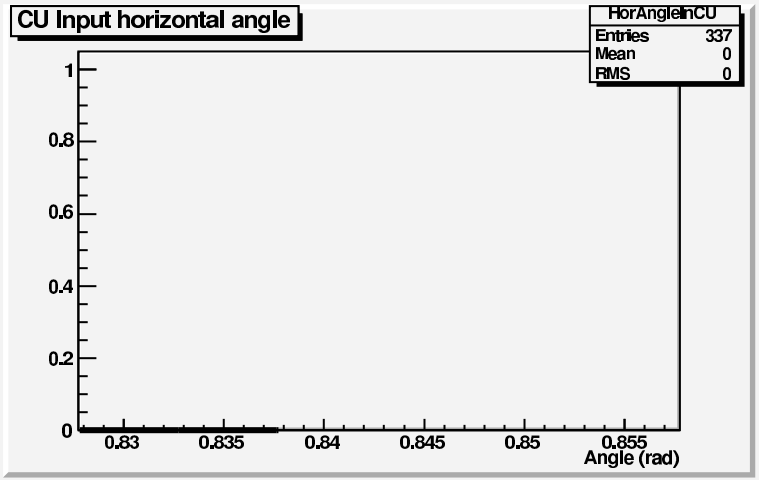

CU Input vertical angle
VertAngleInCU
Entries 4314
Mean 0.005747
RMS 0.001499
Angle (rad)

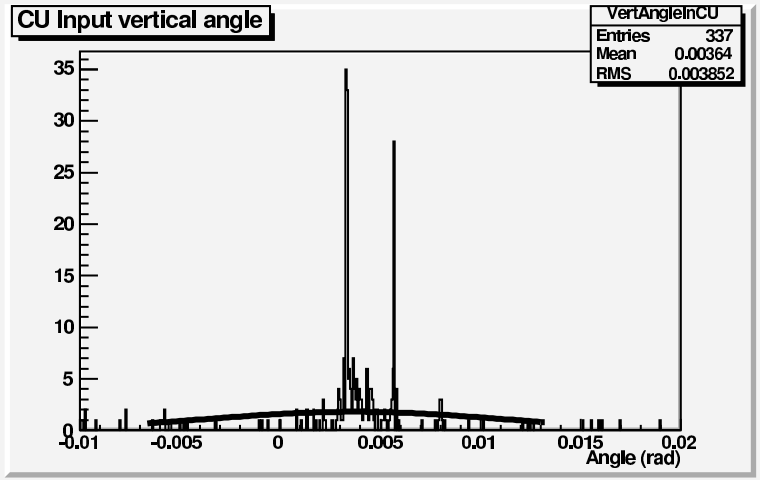

CU Input Beam Spot
SpotCoordInCU
Entries 4314
Mean x 338.8
Mean y 24.75
RMS x 4.733
RMS y 3.307
Vertical Position (mm)
Horizontal Position (mm)

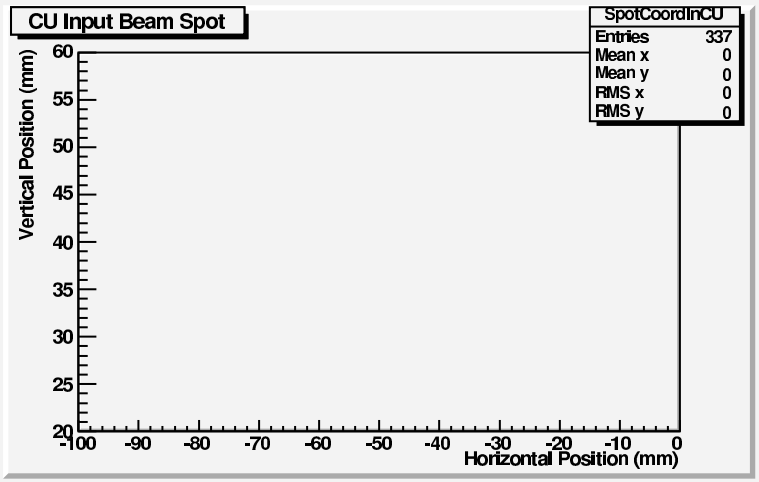

CU Input Beam Spot
SpotAngleInCU
Entries 4314
Mean x 0.005733
Mean y -0.007627
RMS x 0.001471
RMS y 0.001843
Vertical Angle (rad)
Horizontal Angle (rad)

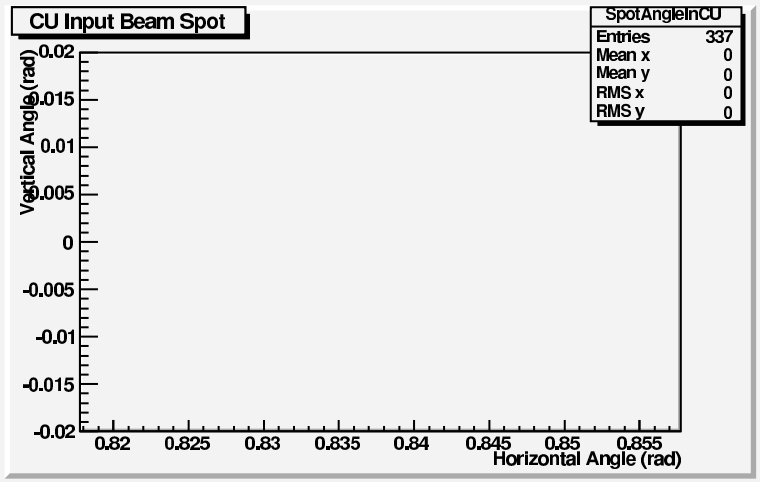

CU Input Horizontal coordinate
HorCoordInCU
Entries 337
Mean 0
RMS 0
Position (mm)

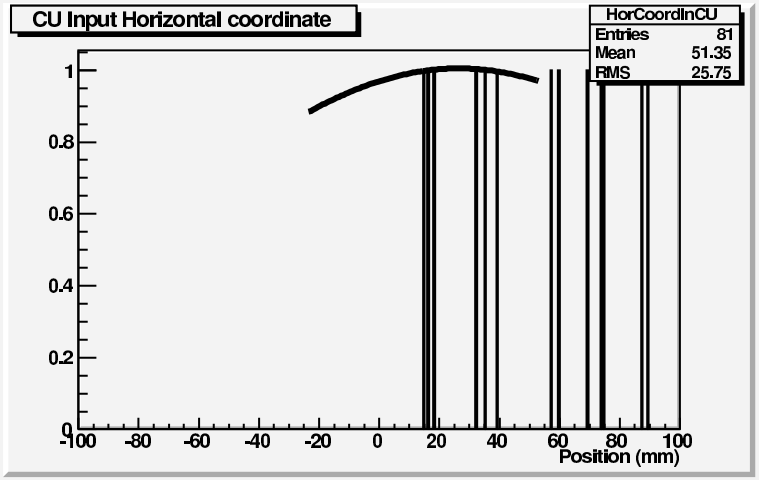

CU Input vertical coordinate
VertCoordInCU
Entries 337
Mean 21.75
RMS 9.077
Position (mm)

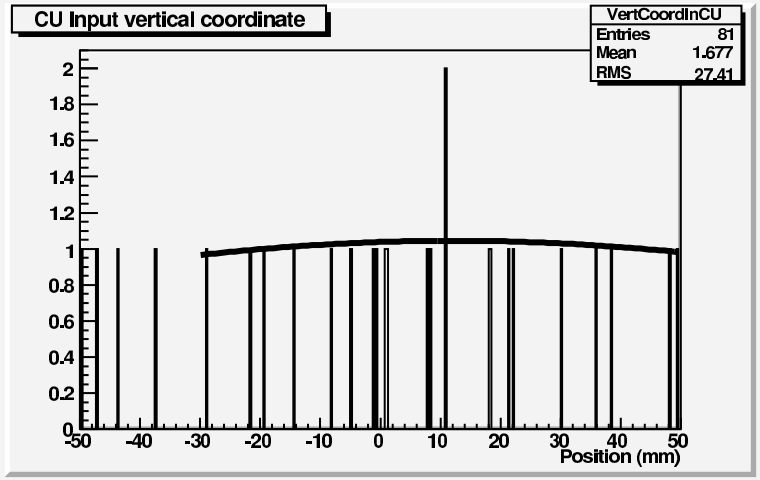

CU Input horizontal angle
HorAngleInCU
Entries 337
Mean 0
RMS 0
Angle (rad)

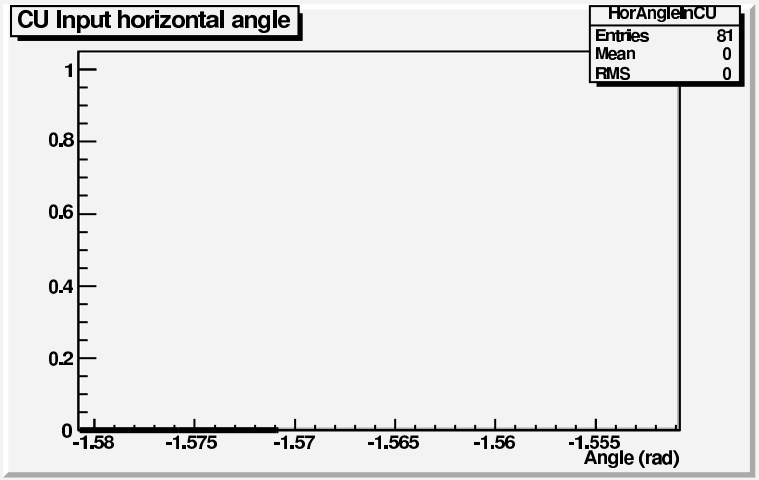

CU Input vertical angle
VertAngleInCU
Entries 337
Mean 0.00364
RMS 0.003852
Angle (rad)

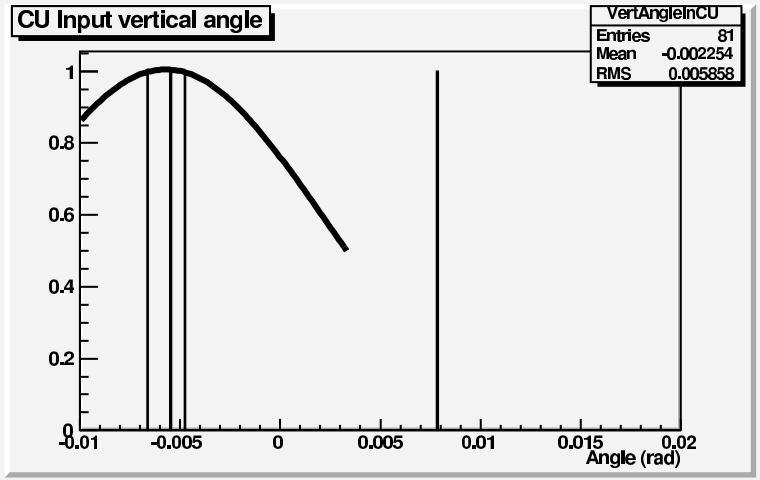

CU Input Beam Spot
SpotCoordInCU
Entries 337
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Position (mm)
Horizontal Position (mm)

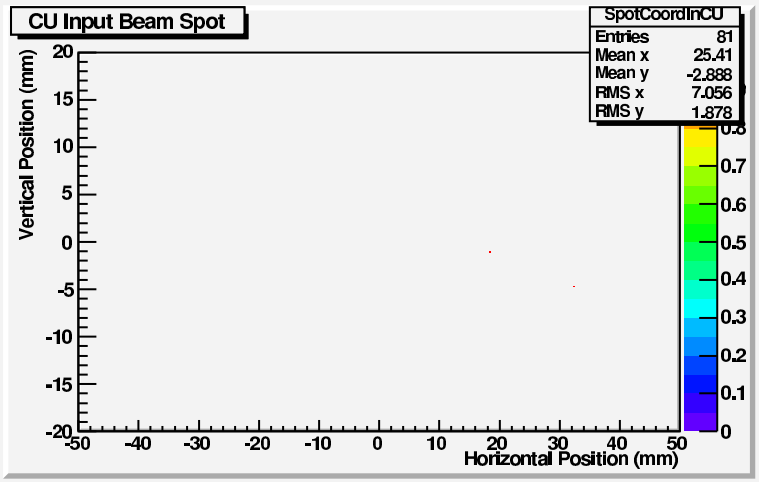

CU Input Beam Spot
SpotAngleInCU
Entries 337
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

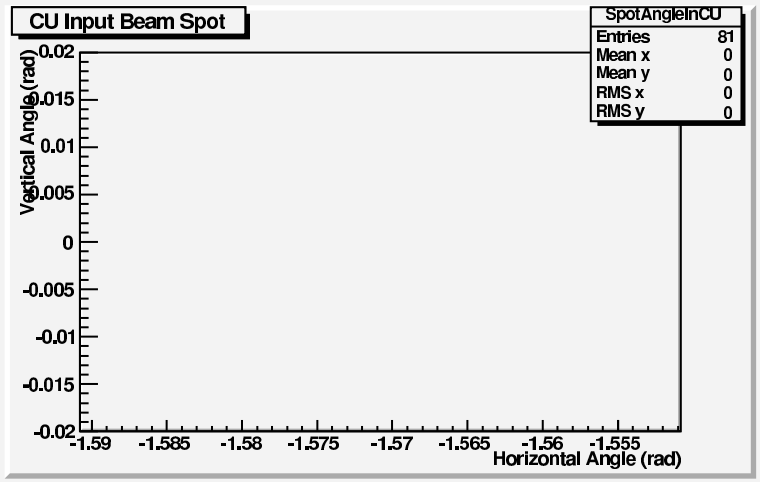

CU Input Horizontal coordinate
HorCoordInCU
Entries 81
Mean 51.35
RMS 25.75
Position (mm)

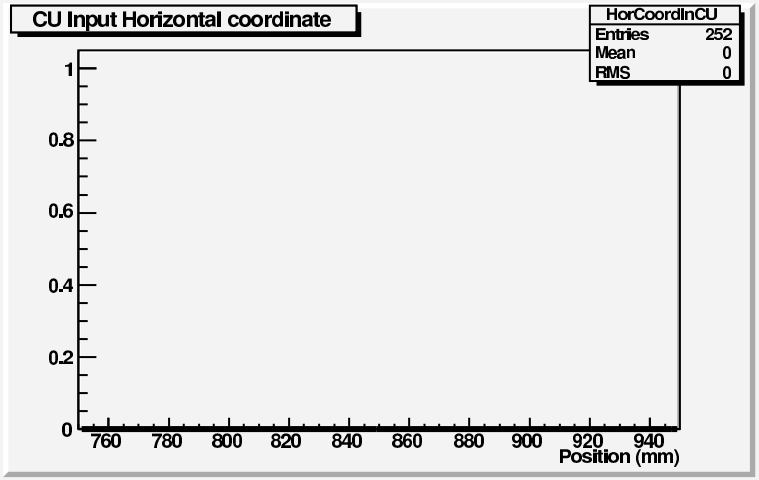

CU Input vertical coordinate
VertCoordInCU
Entries 81
Mean 1.677
RMS 27.41
Position (mm)

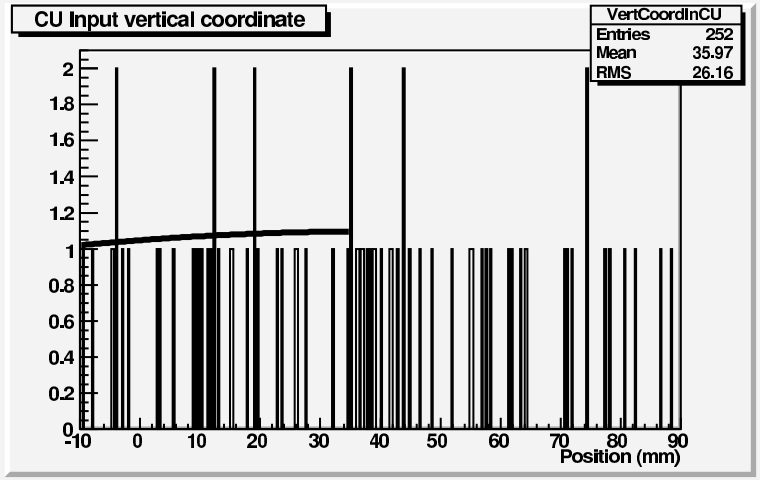

CU Input horizontal angle
HorAngleInCU
Entries 81
Mean 0
RMS 0
Angle (rad)

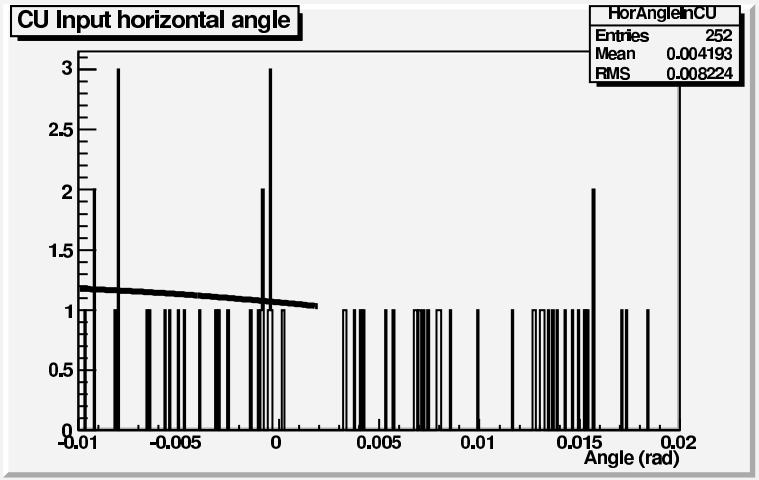

CU Input vertical angle
VertAngleInCU
Entries 81
Mean -0.002254
RMS 0.005858
Angle (rad)

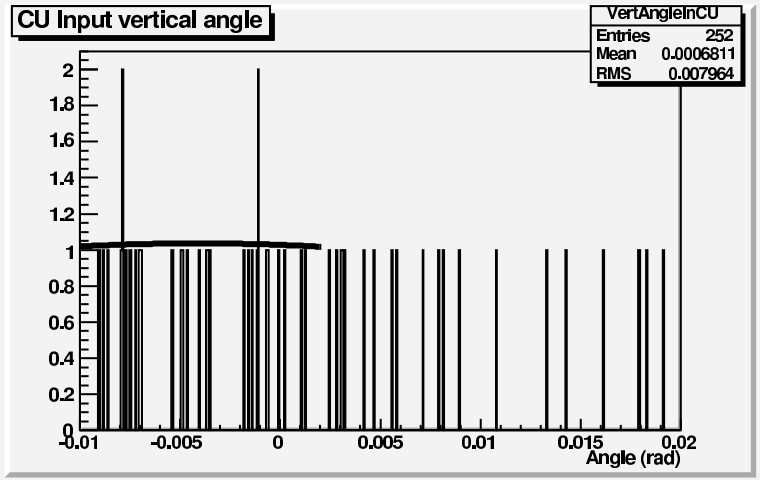

CU Input Beam Spot
SpotCoordInCU
Entries 81
Mean x 25.41
Mean y -2.888
RMS x 7.056
RMS y 1.878
Vertical Position (mm)
Horizontal Position (mm)

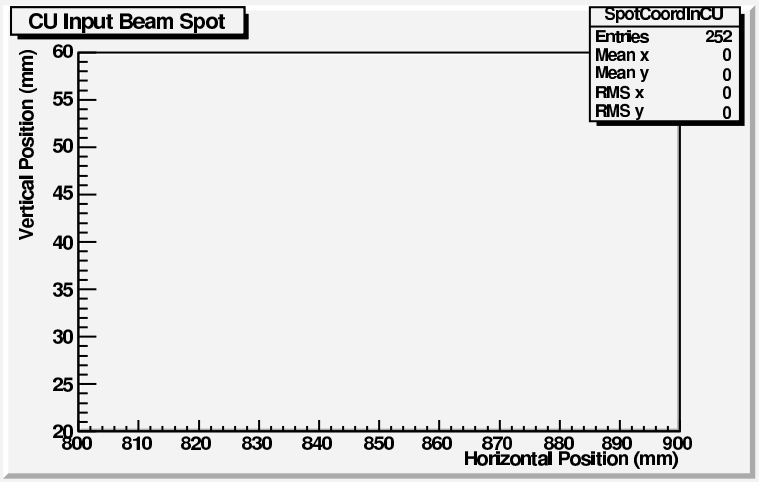

CU Input Beam Spot
SpotAngleInCU
Entries 81
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

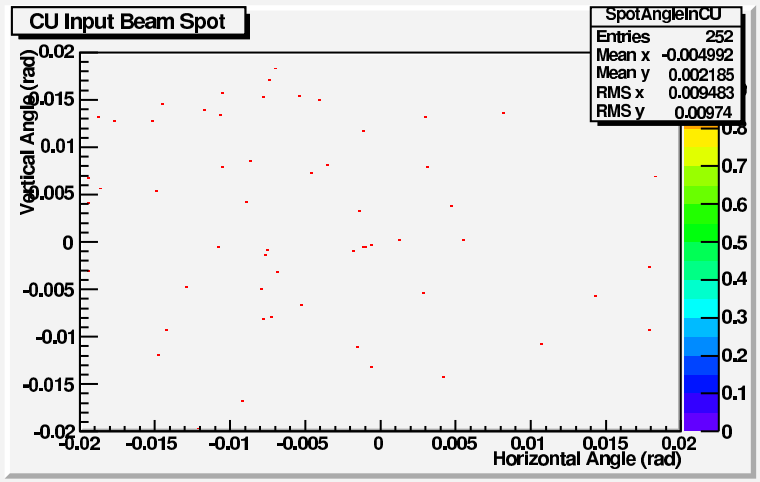

CU Input Horizontal coordinate
HorCoordInCU
Entries 252
Mean 0
RMS 0
Position (mm)

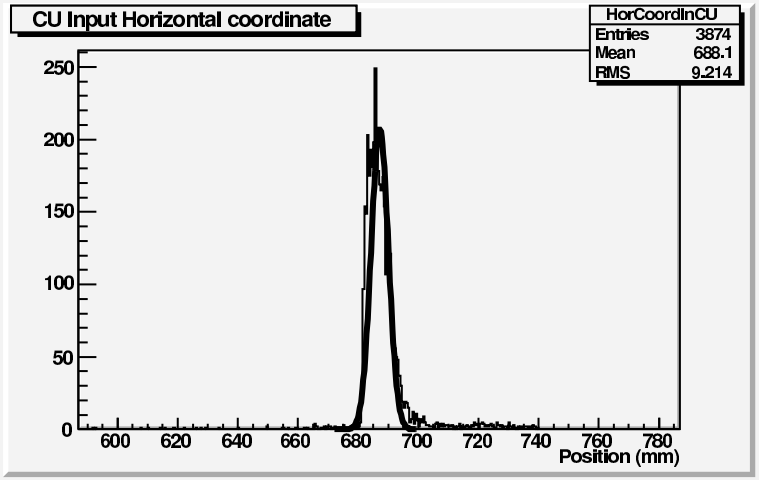

CU Input vertical coordinate
VertCoordInCU
Entries 252
Mean 35.97
RMS 26.16
Position (mm)

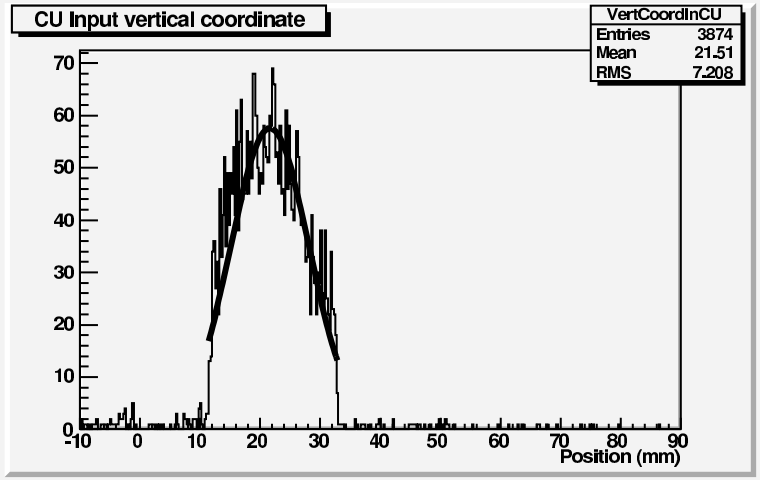

CU Input horizontal angle
HorAngleInCU
Entries 252
Mean 0.004193
RMS 0.008224
Angle (rad)

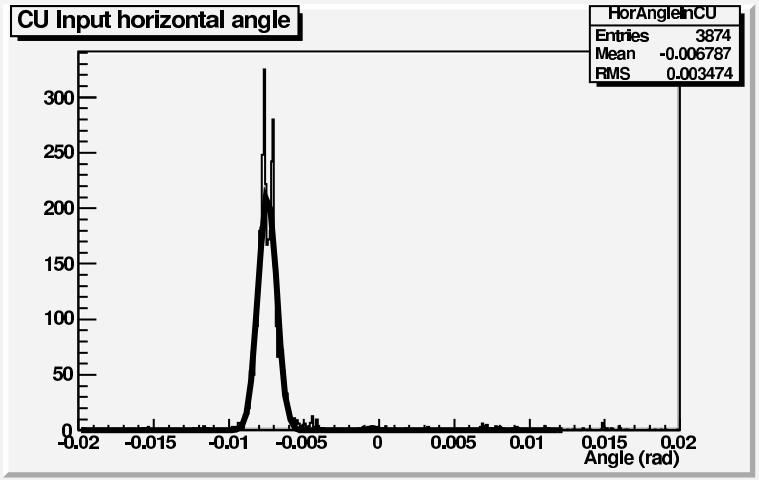

CU Input vertical angle
VertAngleInCU
Entries 252
Mean 0.0006811
RMS 0.007964
Angle (rad)

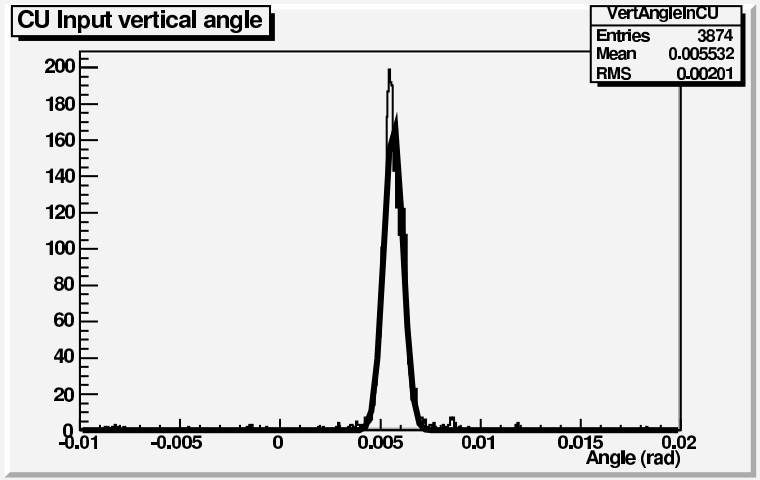

CU Input Beam Spot
SpotCoordInCU
Entries 252
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Position (mm)
Horizontal Position (mm)

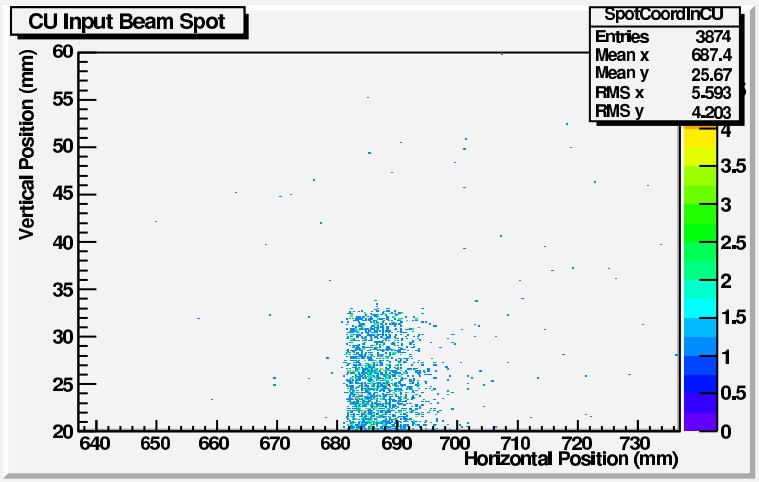

CU Input Beam Spot
SpotAngleInCU
Entries 252
Mean x -0.004992
Mean y 0.002185
RMS x 0.009483
RMS y 0.00974
Vertical Angle (rad)
Horizontal Angle (rad)

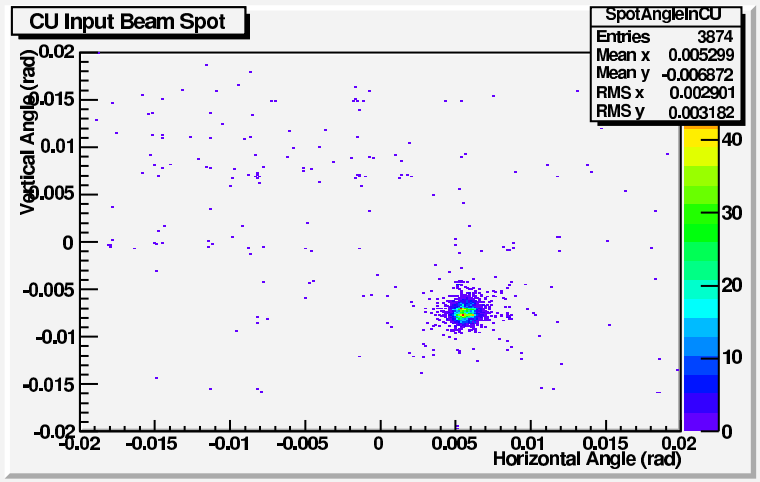

CU Input Horizontal coordinate
HorCoordInCU
Entries 3874
Mean 688.1
RMS 9.214
Position (mm)

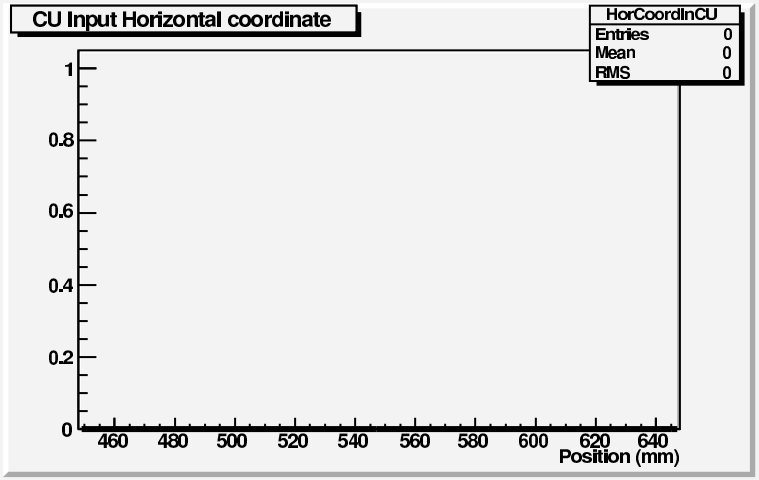

CU Input vertical coordinate
VertCoordInCU
Entries 3874
Mean 21.51
RMS 7.208
Position (mm)

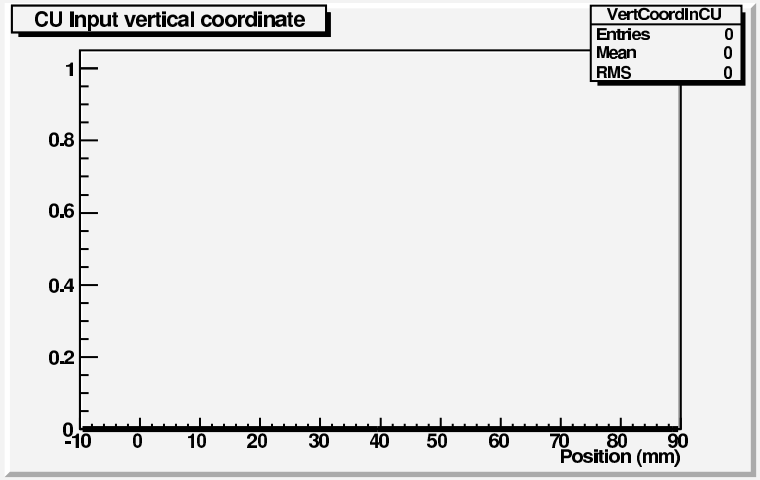

CU Input horizontal angle
HorAngleInCU
Entries 3874
Mean -0.006787
RMS 0.003474
Angle (rad)

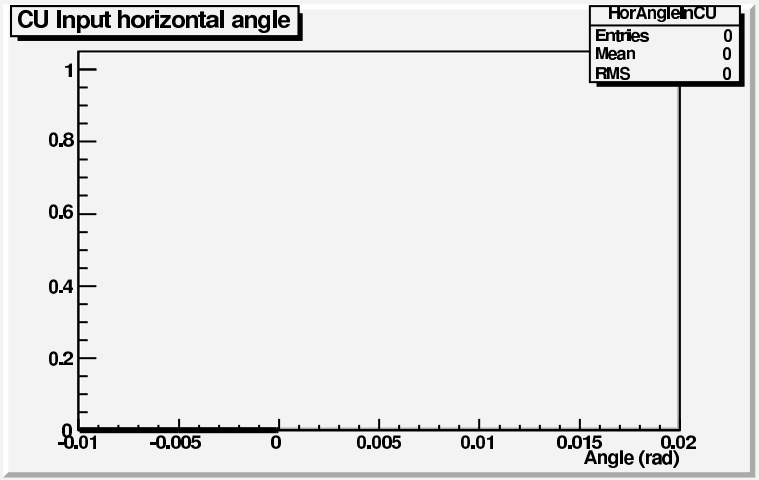

CU Input vertical angle
VertAngleInCU
Entries 3874
Mean 0.005532
RMS 0.00201
Angle (rad)

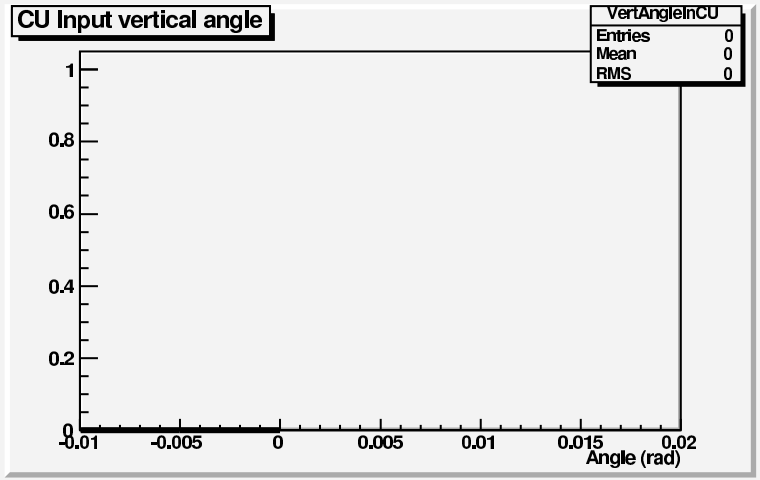

CU Input Beam Spot
SpotCoordInCU
Entries 3874
Mean x 687.4
Mean y 25.67
RMS x 5.593
RMS y 4.203
Vertical Position (mm)
Horizontal Position (mm)

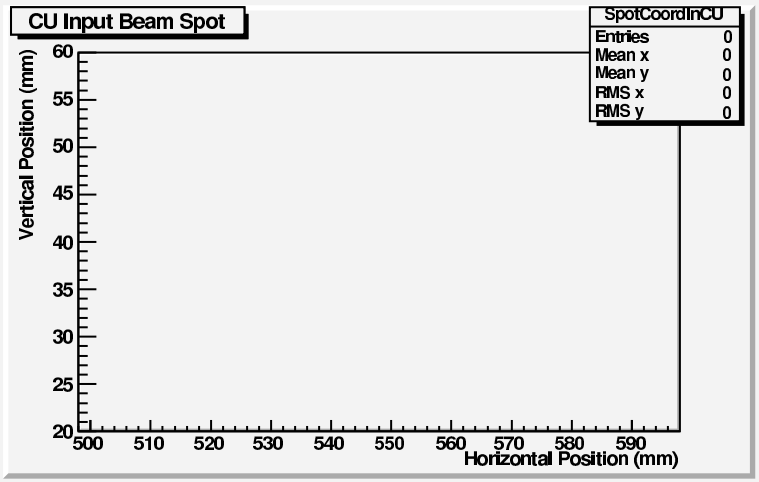

CU Input Beam Spot
SpotAngleInCU
Entries 3874
Mean x 0.005299
Mean y -0.006872
RMS x 0.002901
RMS y 0.003182
Vertical Angle (rad)
Horizontal Angle (rad)

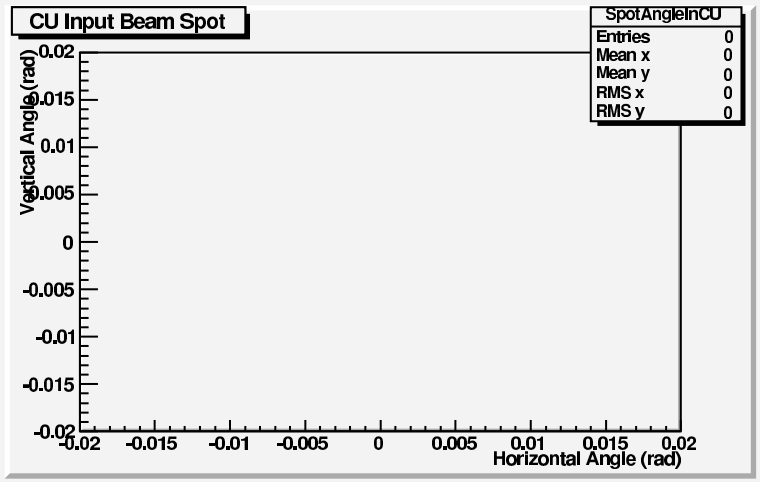

CU Input Horizontal coordinate
HorCoordInCU
Entries 0
Mean 0
RMS 0
Position (mm)

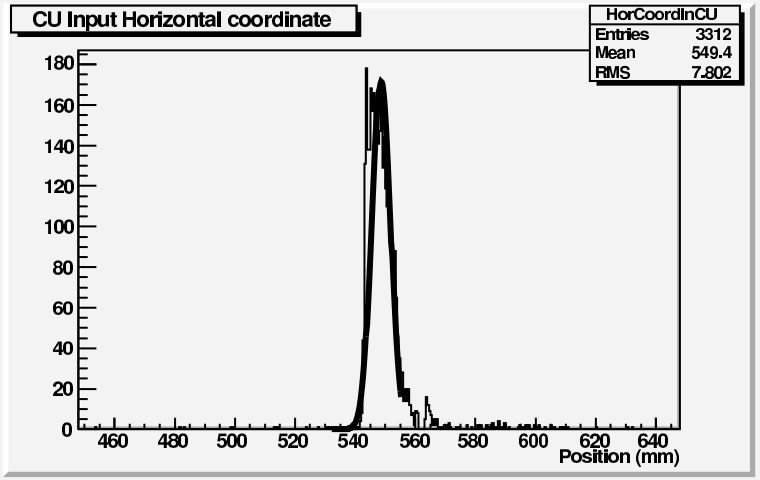

CU Input vertical coordinate
VertCoordInCU
Entries 0
Mean 0
RMS 0
Position (mm)

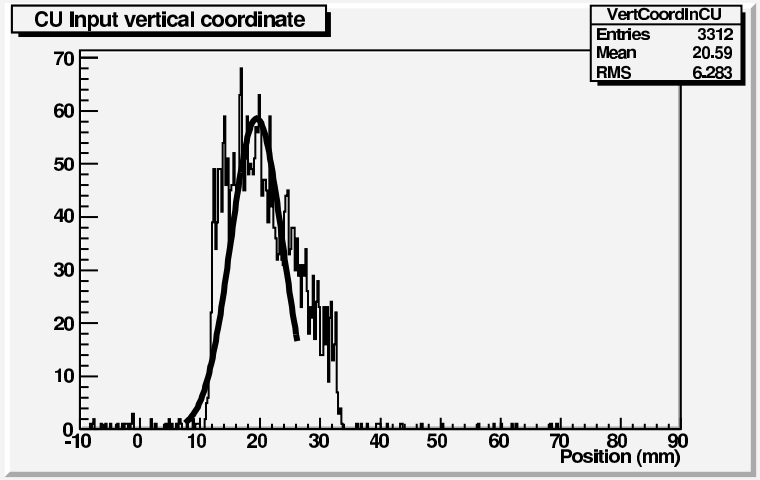

CU Input horizontal angle
HorAngleInCU
Entries 0
Mean 0
RMS 0
Angle (rad)

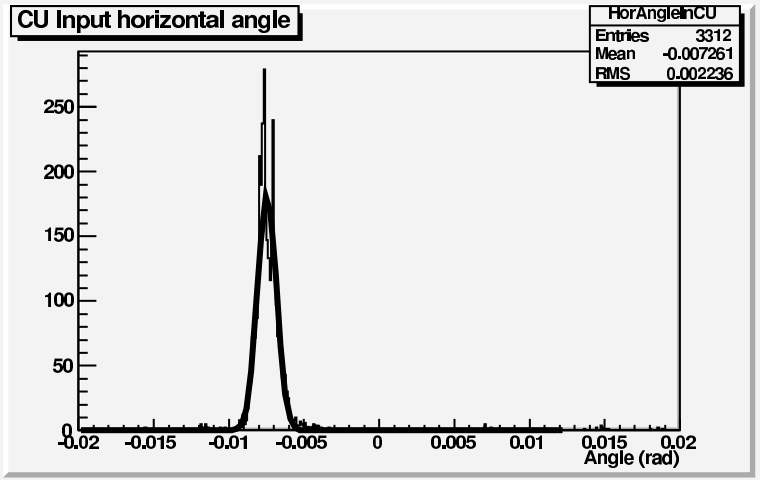

CU Input vertical angle
VertAngleInCU
Entries 0
Mean 0
RMS 0
Angle (rad)

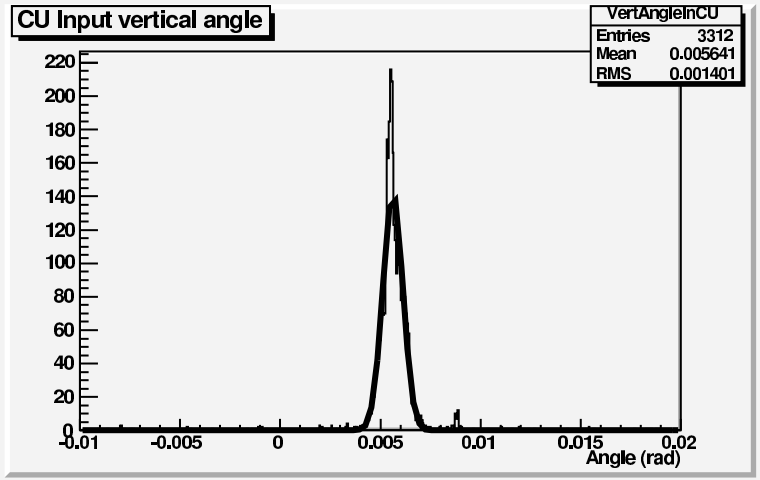

CU Input Beam Spot
SpotCoordInCU
Entries 0
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Position (mm)
Horizontal Position (mm)

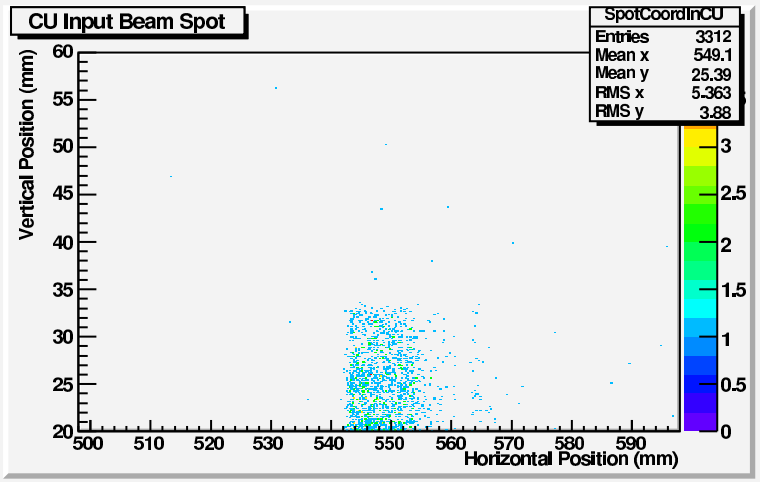

CU Input Beam Spot
SpotAngleInCU
Entries 0
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

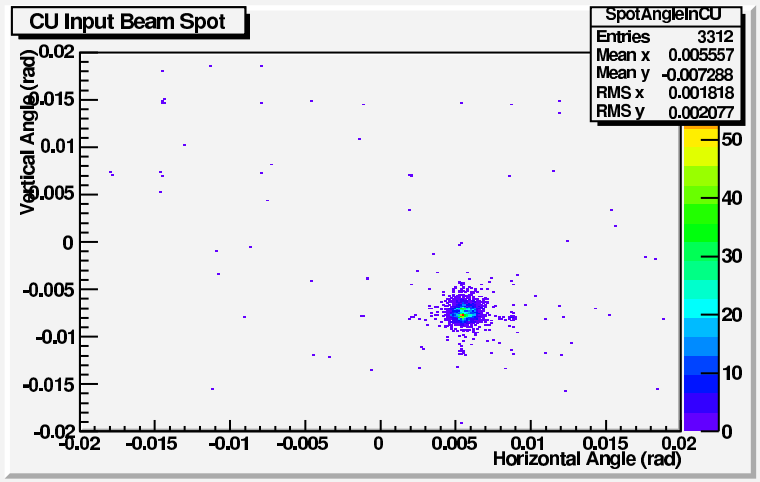

CU Input Horizontal coordinate
HorCoordInCU
Entries 3312
Mean 549.4
RMS 7.802
Position (mm)

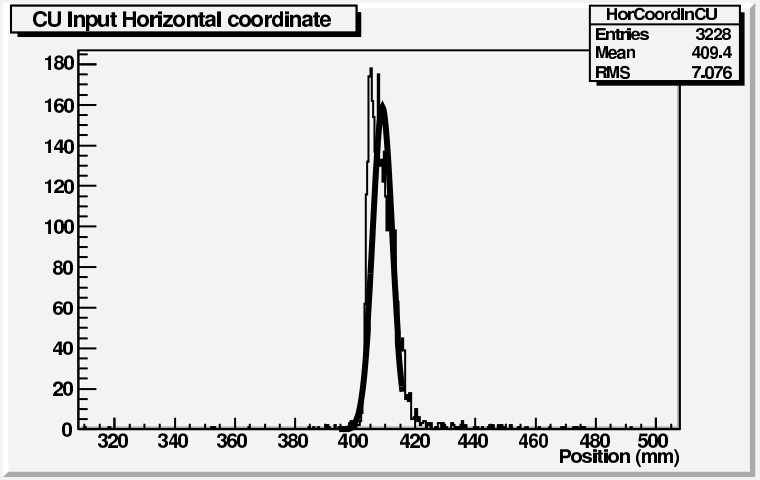

CU Input vertical coordinate
VertCoordInCU
Entries 3312
Mean 20.59
RMS 6.283
Position (mm)

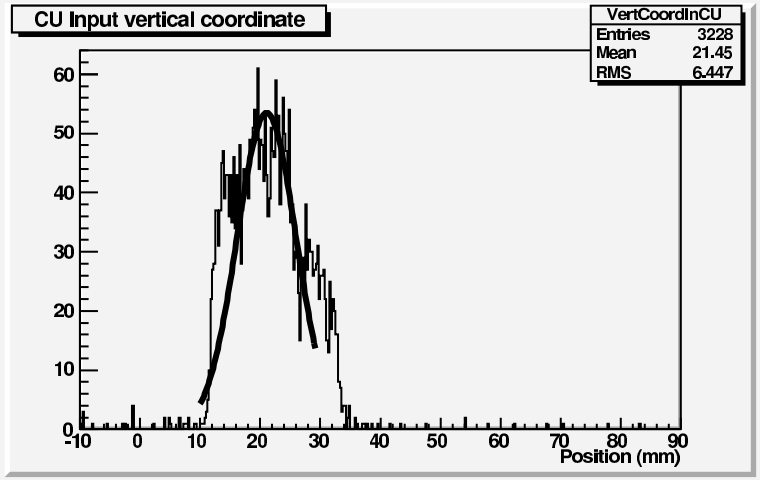

CU Input horizontal angle
HorAngleInCU
Entries 3312
Mean -0.007261
RMS 0.002236
Angle (rad)

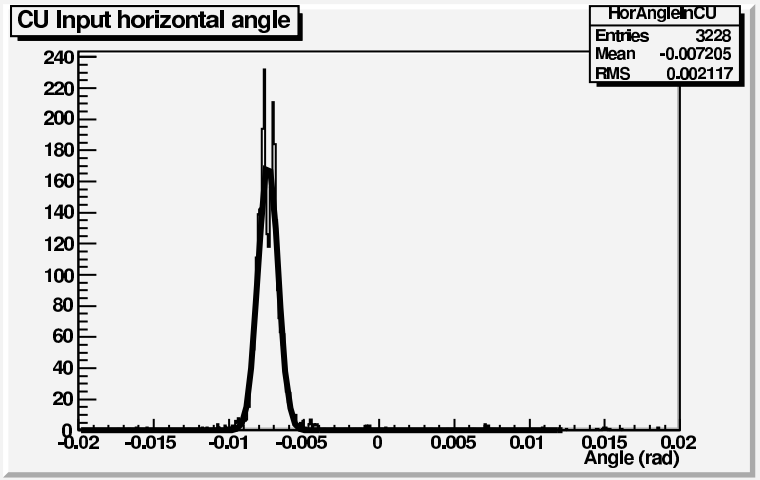

CU Input vertical angle
VertAngleInCU
Entries 3312
Mean 0.005641
RMS 0.001401
Angle (rad)

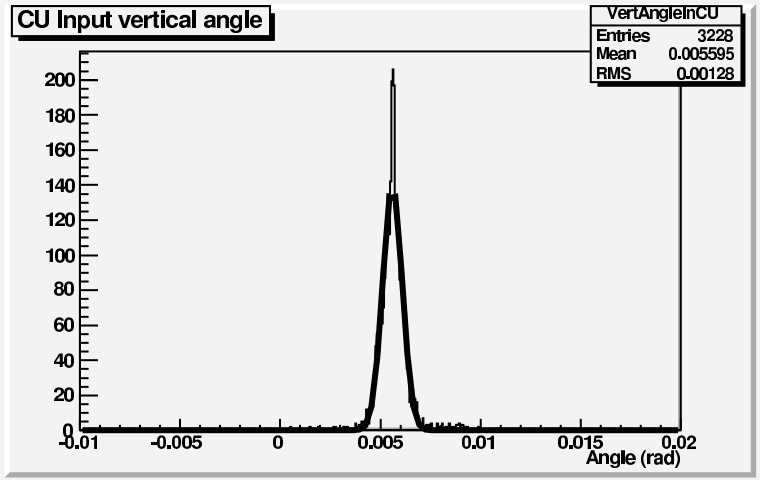

CU Input Beam Spot
SpotCoordInCU
Entries 3312
Mean x 549.1
Mean y 25.39
RMS x 5.363
RMS y 3.88
Vertical Position (mm)
Horizontal Position (mm)

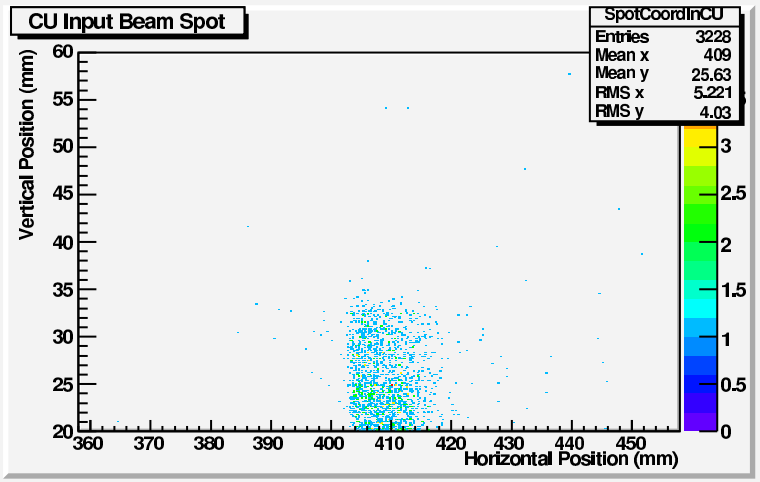

CU Input Beam Spot
SpotAngleInCU
Entries 3312
Mean x 0.005557
Mean y -0.007288
RMS x 0.001818
RMS y 0.002077
Vertical Angle (rad)
Horizontal Angle (rad)

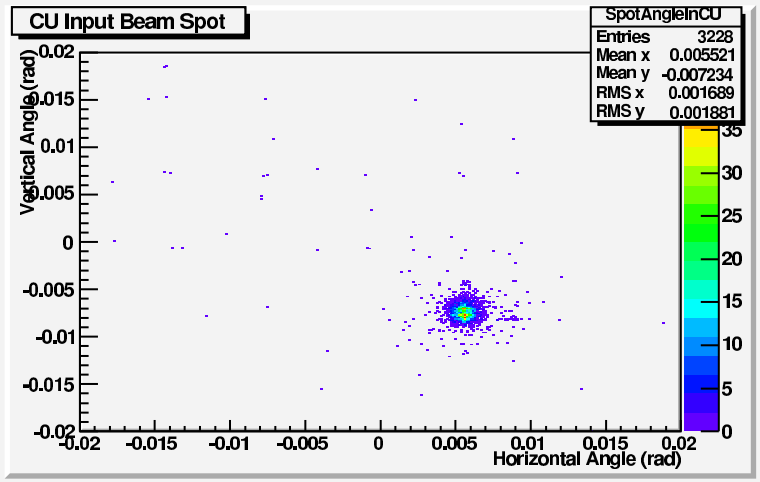

CU Input Horizontal coordinate
HorCoordInCU
Entries 3228
Mean 409.4
RMS 7.076
Position (mm)

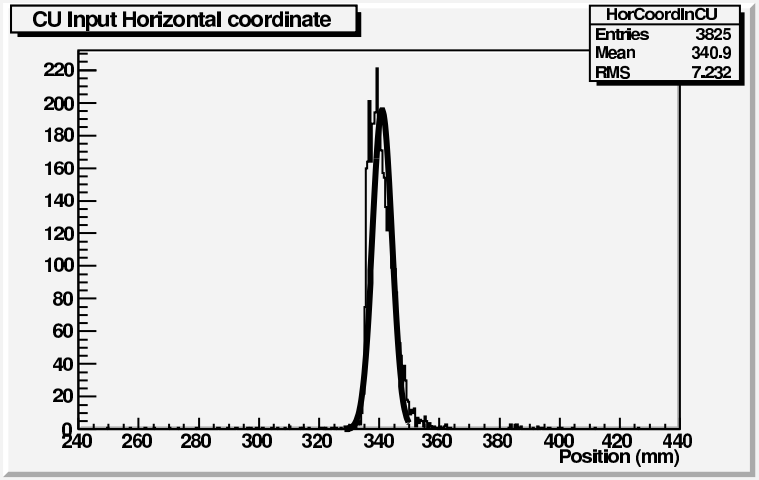

CU Input vertical coordinate
VertCoordInCU
Entries 3228
Mean 21.45
RMS 6.447
Position (mm)

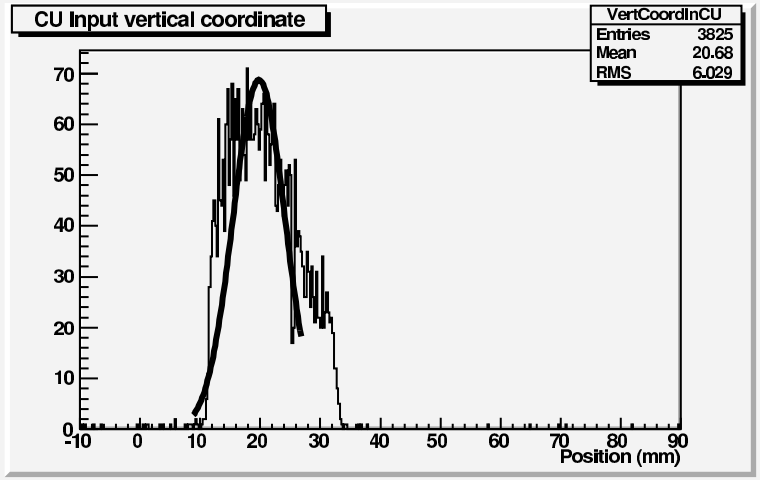

CU Input horizontal angle
HorAngleInCU
Entries 3228
Mean -0.007205
RMS 0.002117
Angle (rad)

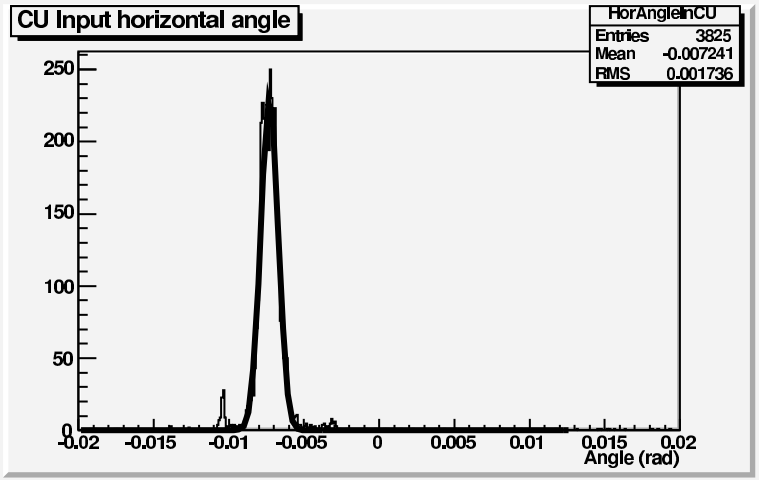

CU Input vertical angle
VertAngleInCU
Entries 3228
Mean 0.005595
RMS 0.00128
Angle (rad)

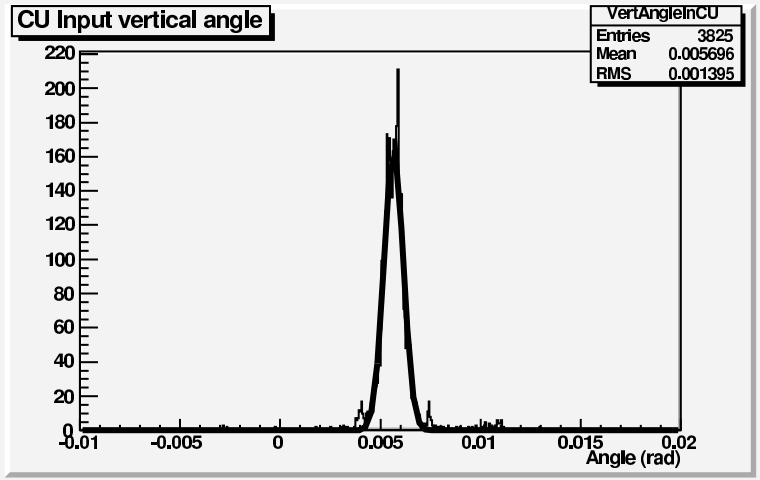

CU Input Beam Spot
SpotCoordInCU
Entries 3228
Mean x 409
Mean y 25.63
RMS x 5.221
RMS y 4.03
Vertical Position (mm)
Horizontal Position (mm)

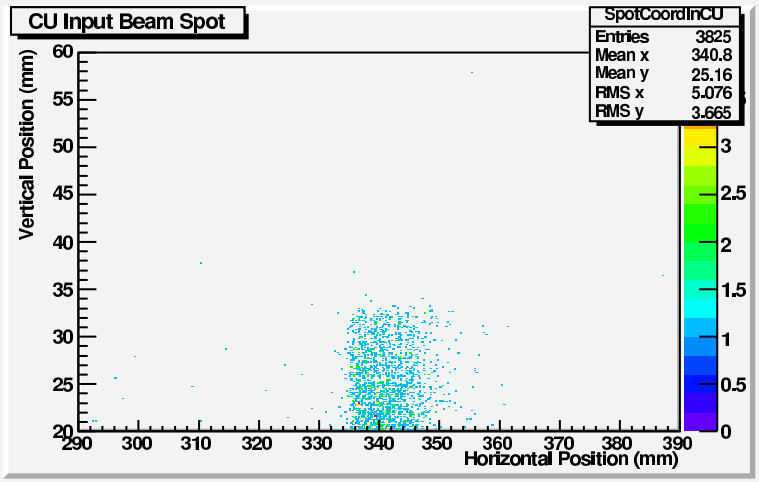

CU Input Beam Spot
SpotAngleInCU
Entries 3228
Mean x 0.005521
Mean y -0.007234
RMS x 0.001689
RMS y 0.001881
Vertical Angle (rad)
Horizontal Angle (rad)

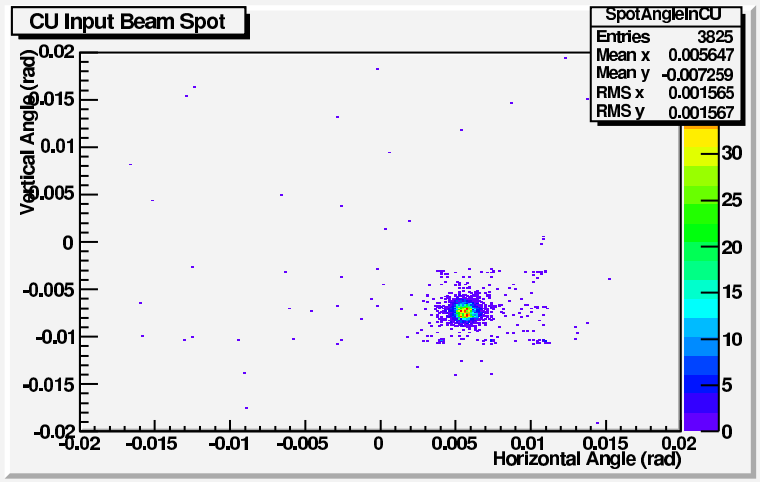

CU Input Horizontal coordinate
HorCoordInCU
Entries 3825
Mean 340.9
RMS 7.232
Position (mm)

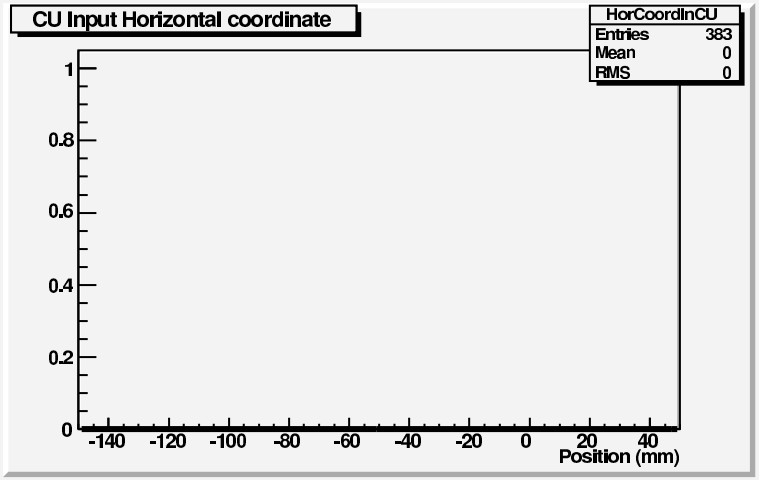

CU Input vertical coordinate
VertCoordInCU
Entries 3825
Mean 20.68
RMS 6.029
Position (mm)

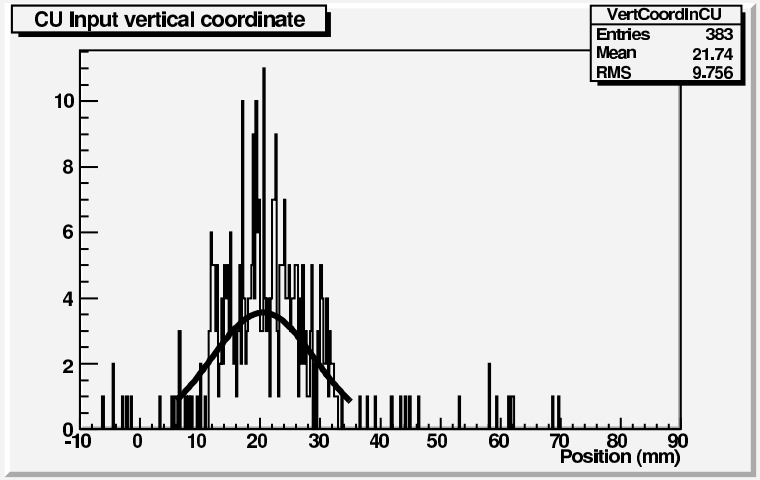

CU Input horizontal angle
HorAngleInCU
Entries 3825
Mean -0.007241
RMS 0.001736
Angle (rad)

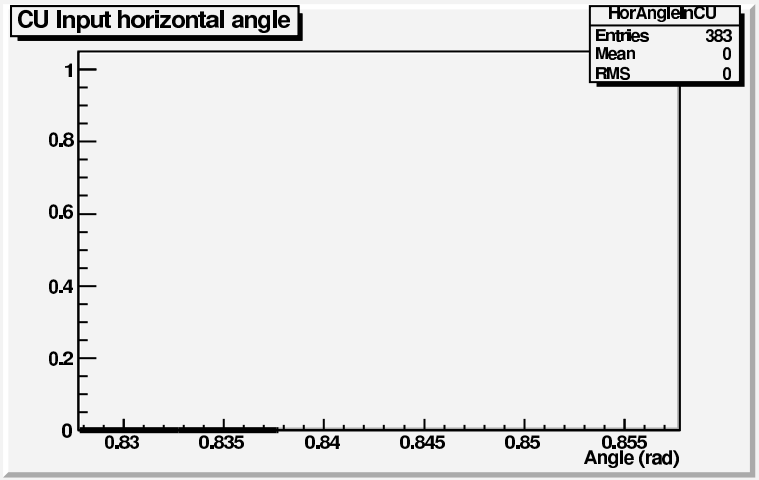

CU Input vertical angle
VertAngleInCU
Entries 3825
Mean 0.005696
RMS 0.001395
Angle (rad)

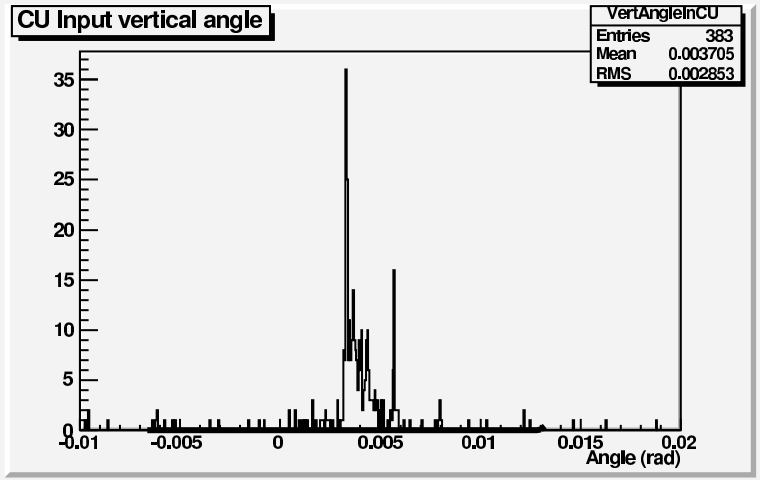

CU Input Beam Spot
SpotCoordInCU
Entries 3825
Mean x 340.8
Mean y 25.16
RMS x 5.076
RMS y 3.665
Vertical Position (mm)
Horizontal Position (mm)

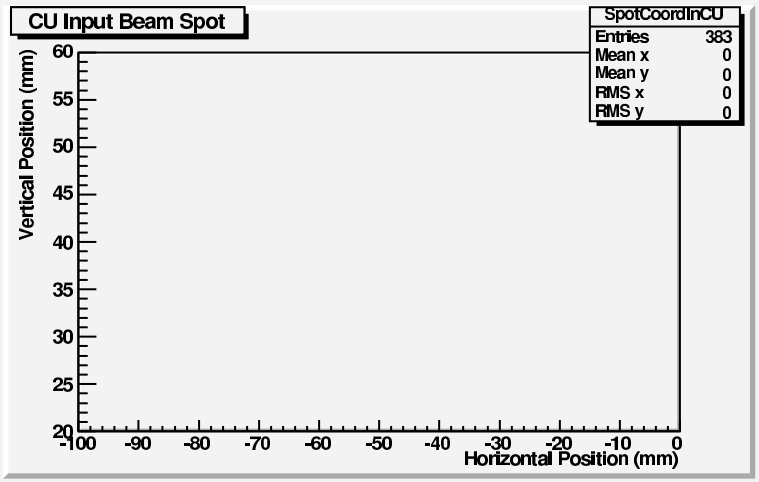

CU Input Beam Spot
SpotAngleInCU
Entries 3825
Mean x 0.005647
Mean y -0.007259
RMS x 0.001565
RMS y 0.001567
Vertical Angle (rad)
Horizontal Angle (rad)

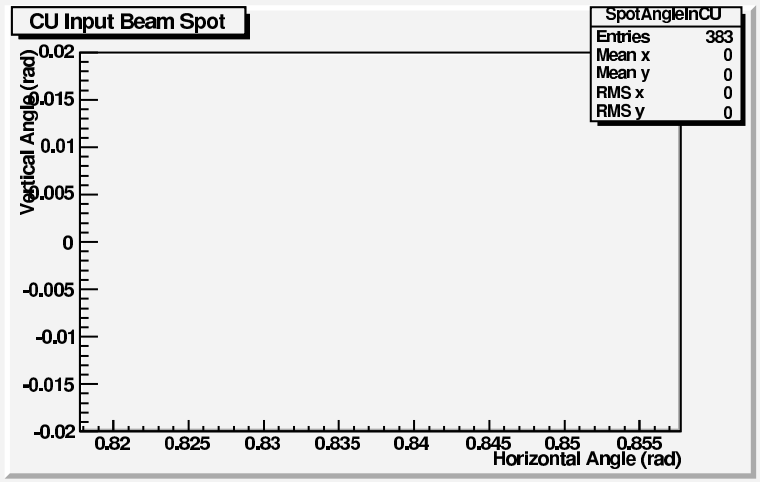

CU Input Horizontal coordinate
HorCoordInCU
Entries 383
Mean 0
RMS 0
Position (mm)

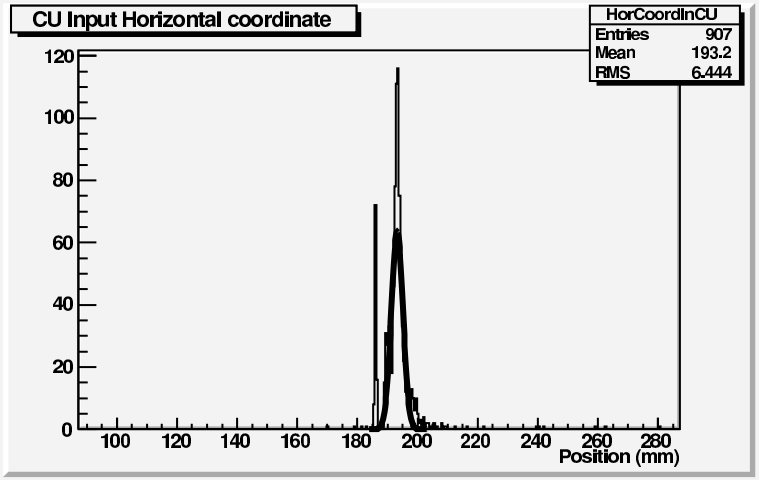

CU Input vertical coordinate
VertCoordInCU
Entries 383
Mean 21.74
RMS 9.756
Position (mm)

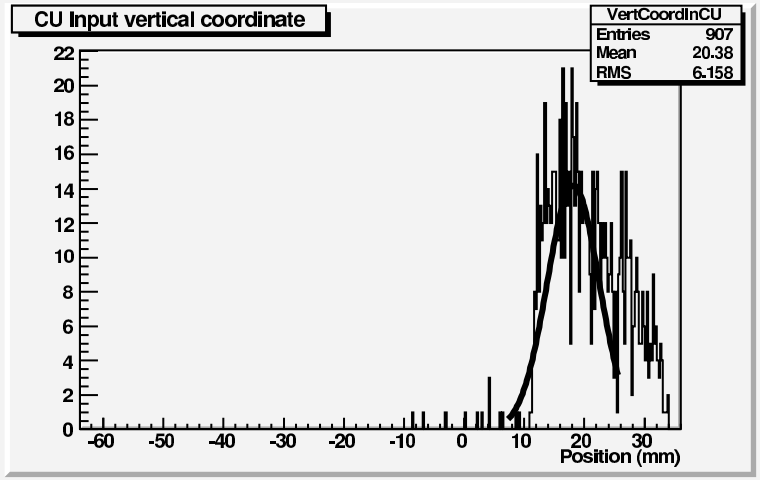

CU Input horizontal angle
HorAngleInCU
Entries 383
Mean 0
RMS 0
Angle (rad)

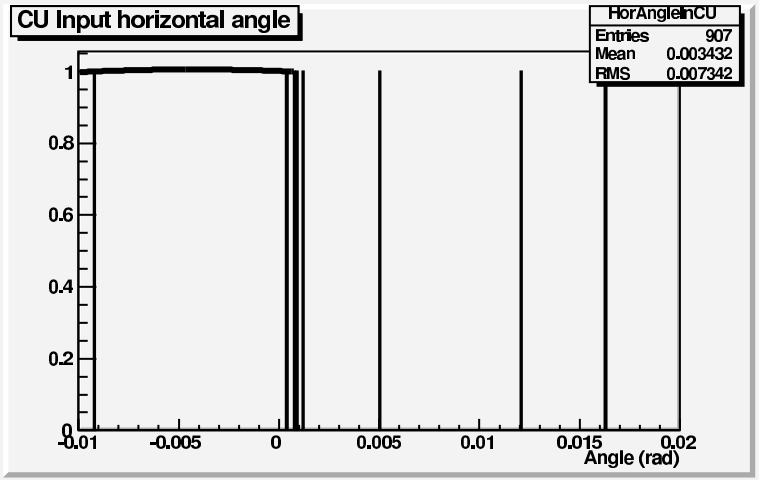

CU Input vertical angle
VertAngleInCU
Entries 383
Mean 0.003705
RMS 0.002853
Angle (rad)

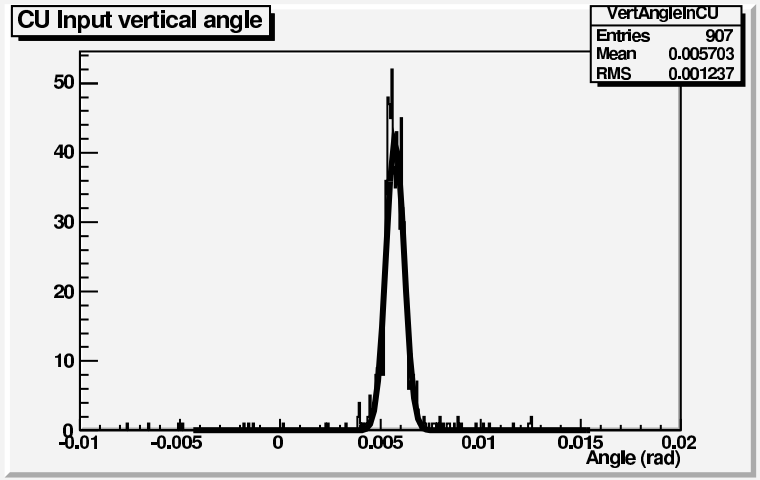

CU Input Beam Spot
SpotCoordInCU
Entries 383
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Position (mm)
Horizontal Position (mm)

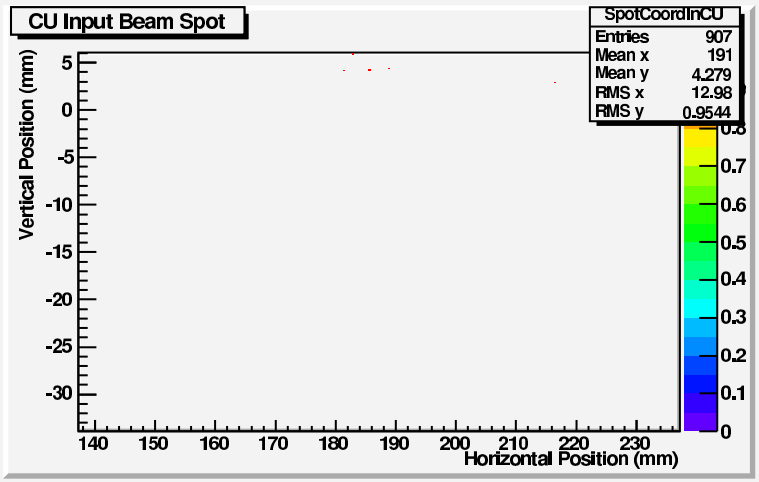

CU Input Beam Spot
SpotAngleInCU
Entries 383
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

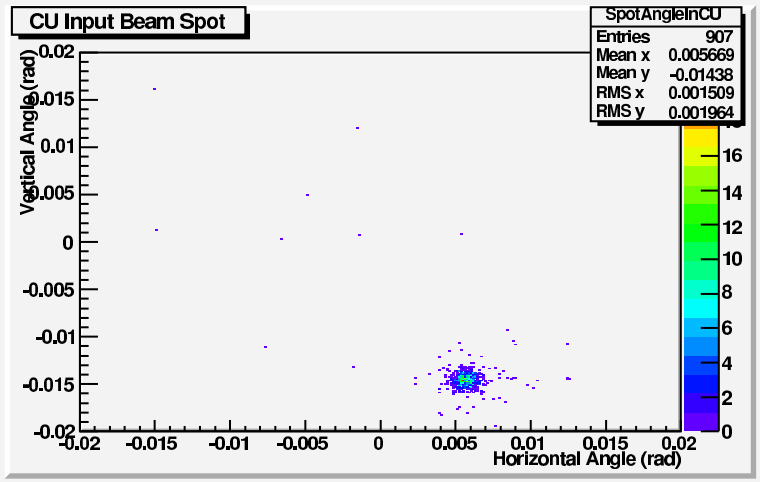

CU Input Horizontal coordinate
HorCoordInCU
Entries 907
Mean 193.2
RMS 6.444
Position (mm)

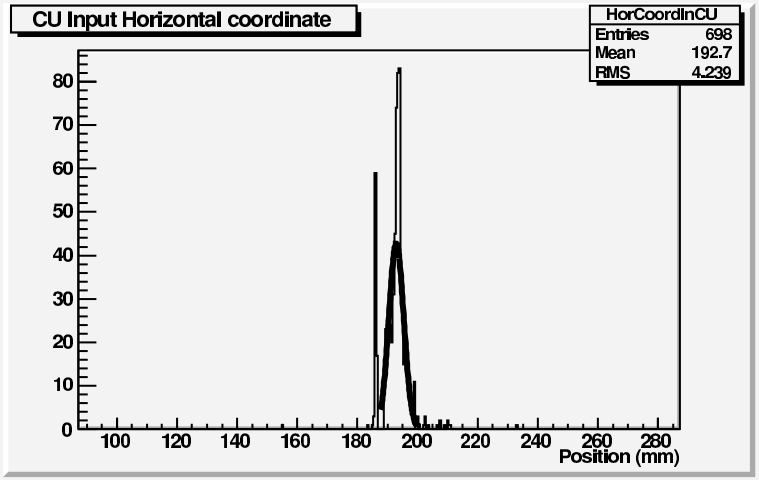

CU Input vertical coordinate
VertCoordInCU
Entries 907
Mean 20.38
RMS 6.158
Position (mm)

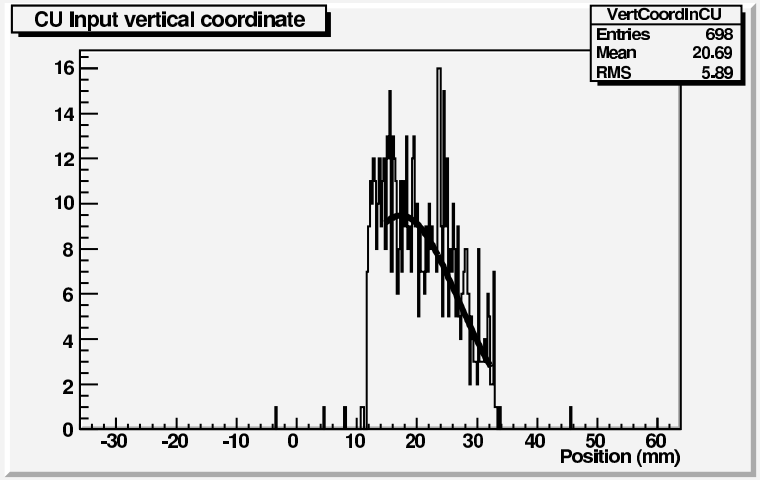

CU Input horizontal angle
HorAngleInCU
Entries 907
Mean 0.003432
RMS 0.007342
Angle (rad)

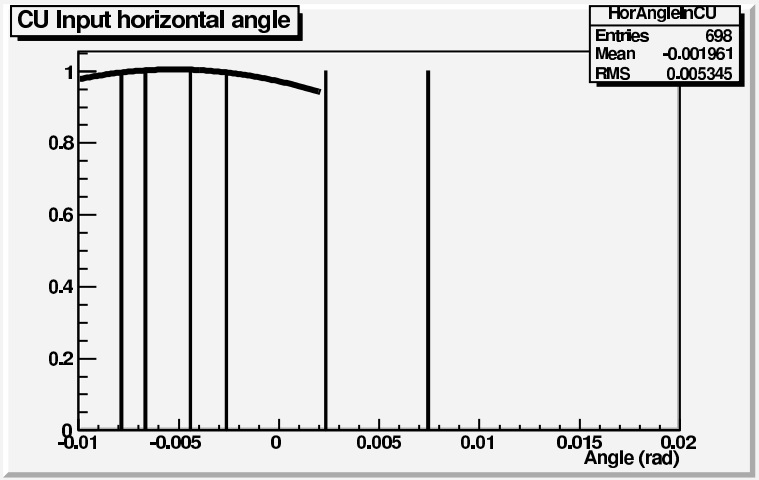

CU Input vertical angle
VertAngleInCU
Entries 907
Mean 0.005703
RMS 0.001237
Angle (rad)

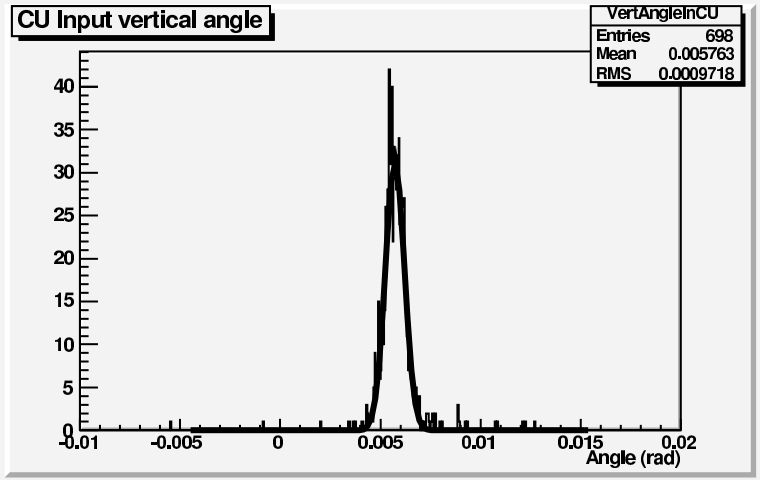

CU Input Beam Spot
SpotCoordInCU
Entries 907
Mean x 191
Mean y 4.279
RMS x 12.98
RMS y 0.9544
Vertical Position (mm)
Horizontal Position (mm)

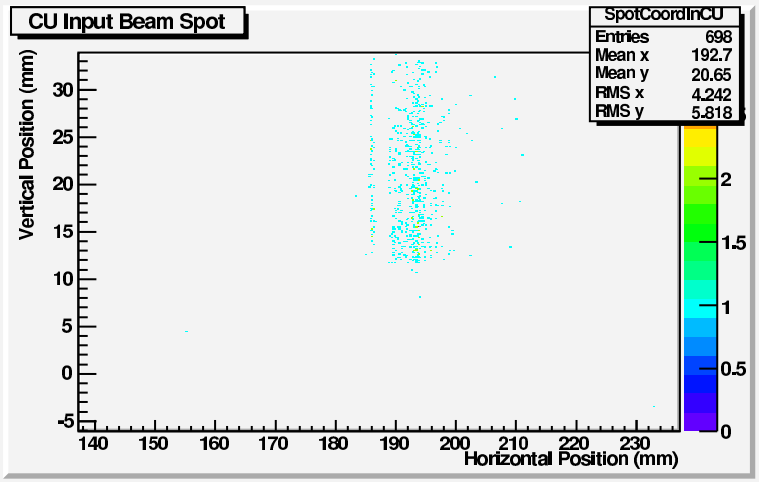

CU Input Beam Spot
SpotAngleInCU
Entries 907
Mean x 0.005669
Mean y -0.01438
RMS x 0.001509
RMS y 0.001964
Vertical Angle (rad)
Horizontal Angle (rad)

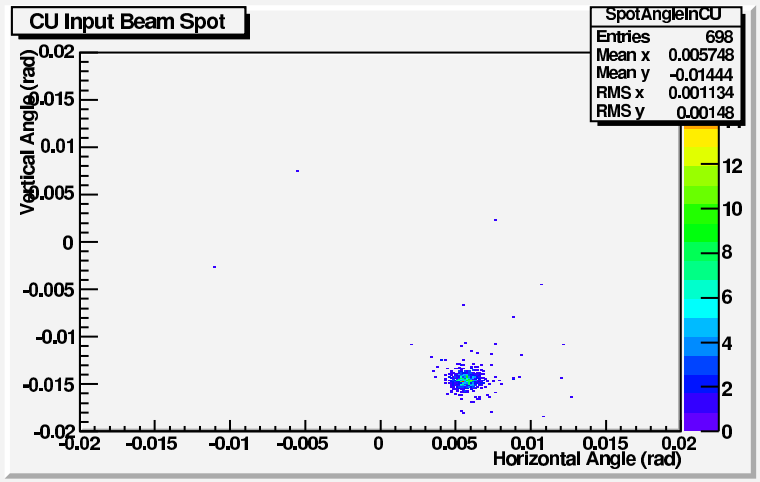

CU Input Horizontal coordinate
HorCoordInCU
Entries 698
Mean 192.7
RMS 4.239
Position (mm)

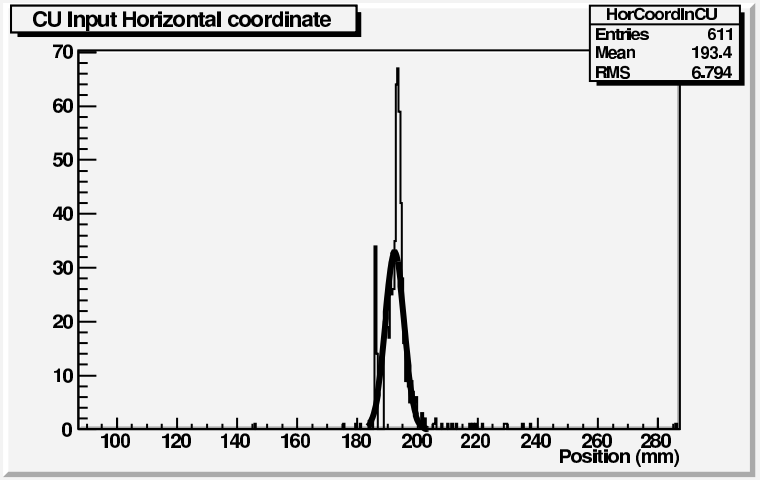

CU Input vertical coordinate
VertCoordInCU
Entries 698
Mean 20.69
RMS 5.89
Position (mm)

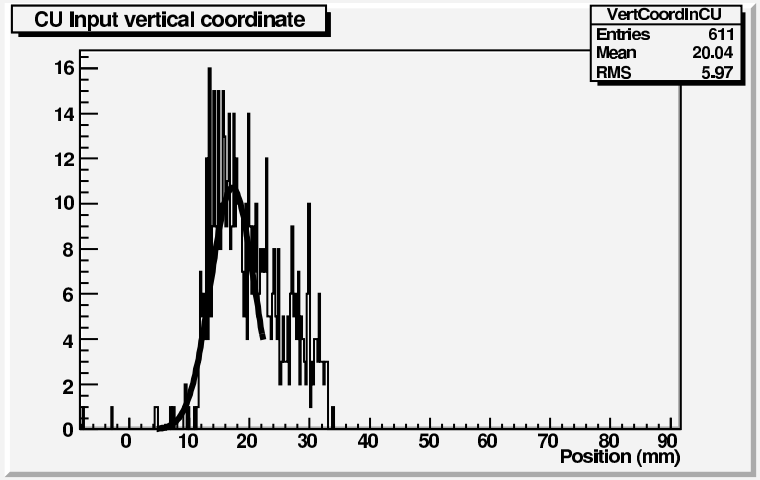

CU Input horizontal angle
HorAngleInCU
Entries 698
Mean -0.001961
RMS 0.005345
Angle (rad)

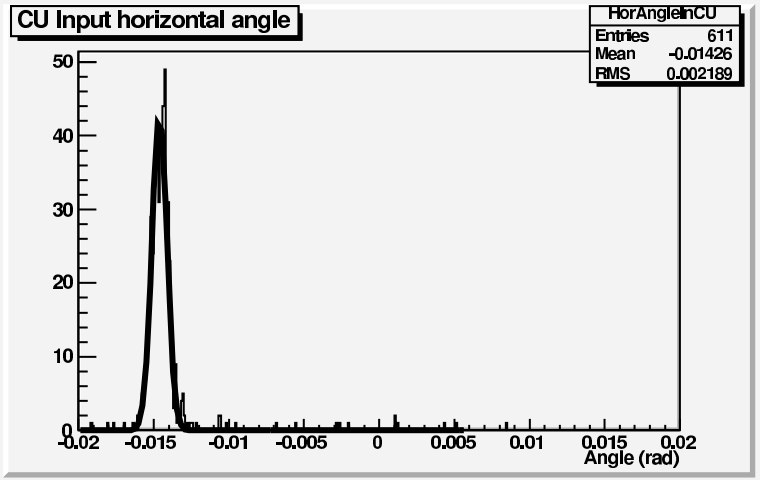

CU Input vertical angle
VertAngleInCU
Entries 698
Mean 0.005763
RMS 0.0009718
Angle (rad)

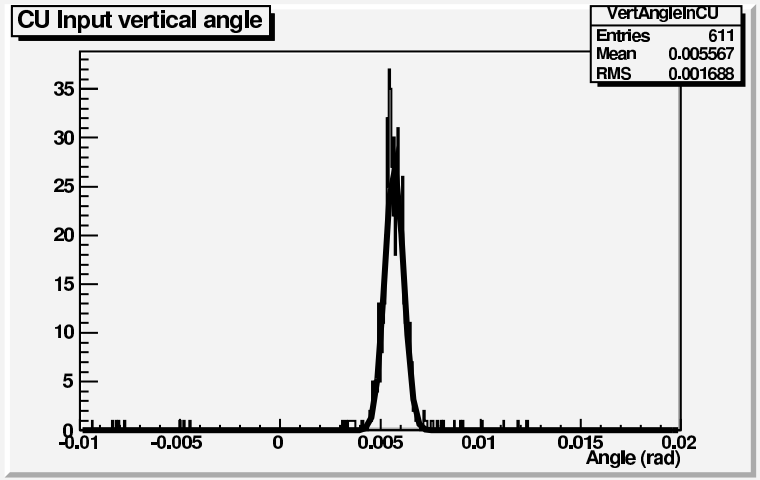

CU Input Beam Spot
SpotCoordInCU
Entries 698
Mean x 192.7
Mean y 20.65
RMS x 4.242
RMS y 5.818
Vertical Position (mm)
Horizontal Position (mm)

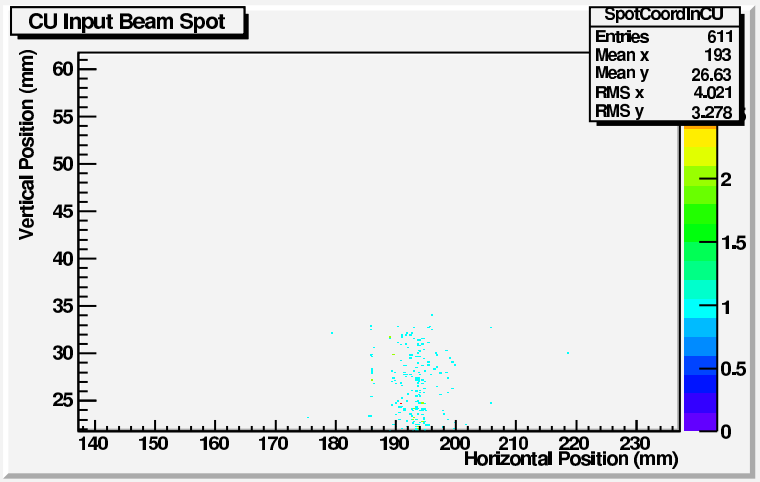

CU Input Beam Spot
SpotAngleInCU
Entries 698
Mean x 0.005748
Mean y -0.01444
RMS x 0.001134
RMS y 0.00148
Vertical Angle (rad)
Horizontal Angle (rad)

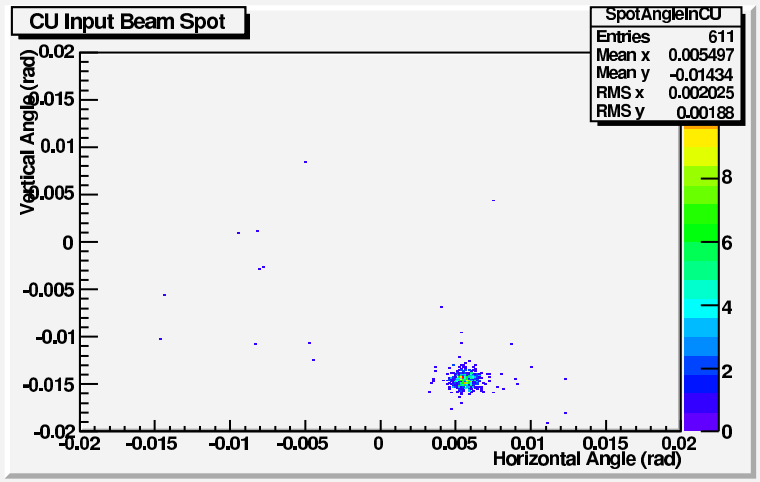

CU Input Horizontal coordinate
HorCoordInCU
Entries 611
Mean 193.4
RMS 6.794
Position (mm)

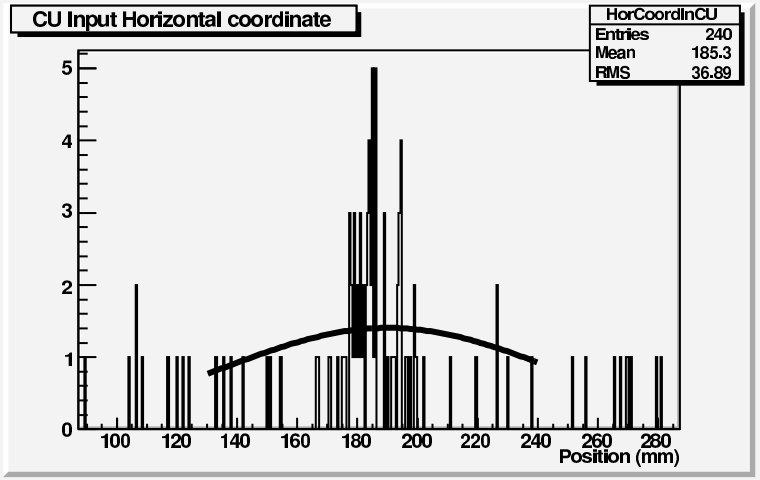

CU Input vertical coordinate
VertCoordInCU
Entries 611
Mean 20.04
RMS 5.97
Position (mm)

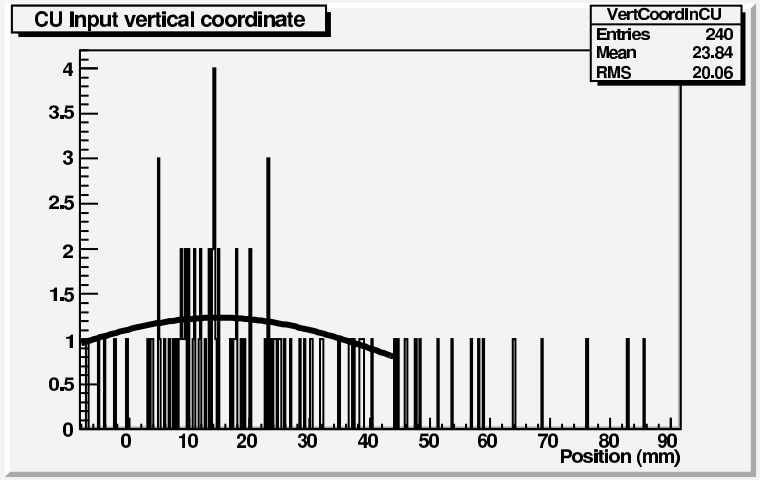

CU Input horizontal angle
HorAngleInCU
Entries 611
Mean -0.01426
RMS 0.002189
Angle (rad)

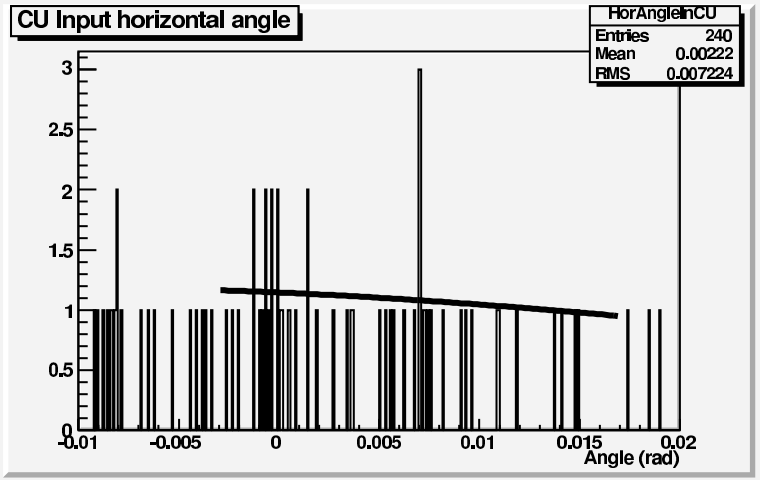

CU Input vertical angle
VertAngleInCU
Entries 611
Mean 0.005567
RMS 0.001688
Angle (rad)

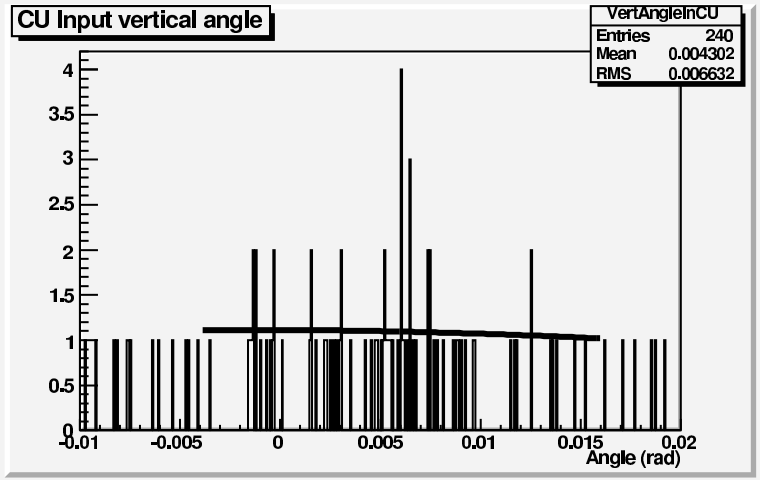

CU Input Beam Spot
SpotCoordInCU
Entries 611
Mean x 193
Mean y 26.63
RMS x 4.021
RMS y 3.278
Vertical Position (mm)
Horizontal Position (mm)

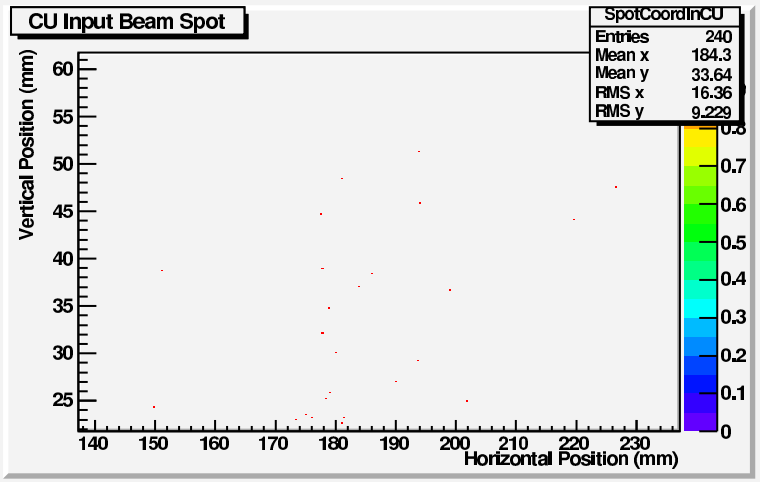

CU Input Beam Spot
SpotAngleInCU
Entries 611
Mean x 0.005497
Mean y -0.01434
RMS x 0.002025
RMS y 0.00188
Vertical Angle (rad)
Horizontal Angle (rad)

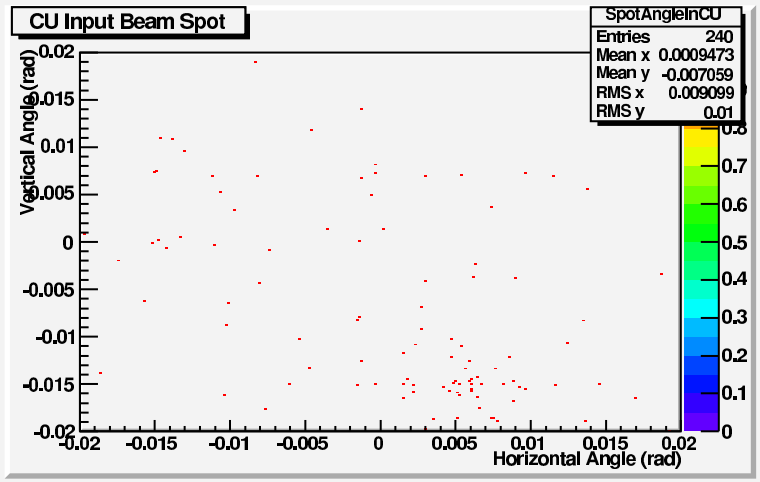

CU Input Horizontal coordinate
HorCoordInCU
Entries 240
Mean 185.3
RMS 36.89
Position (mm)

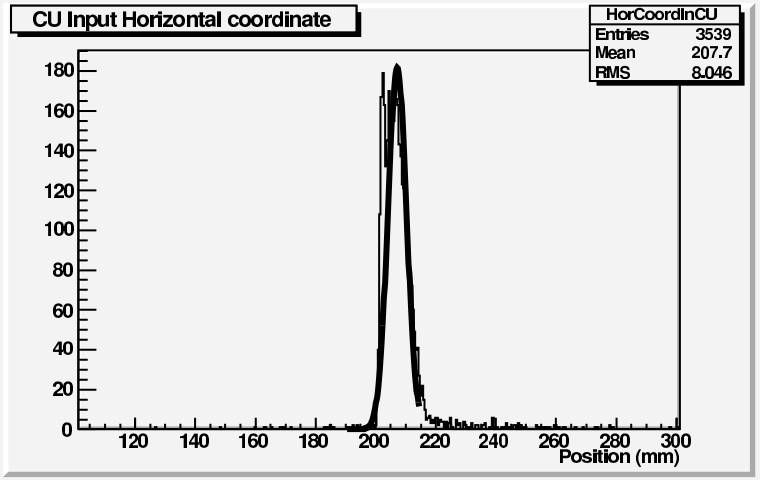

CU Input vertical coordinate
VertCoordInCU
Entries 240
Mean 23.84
RMS 20.06
Position (mm)

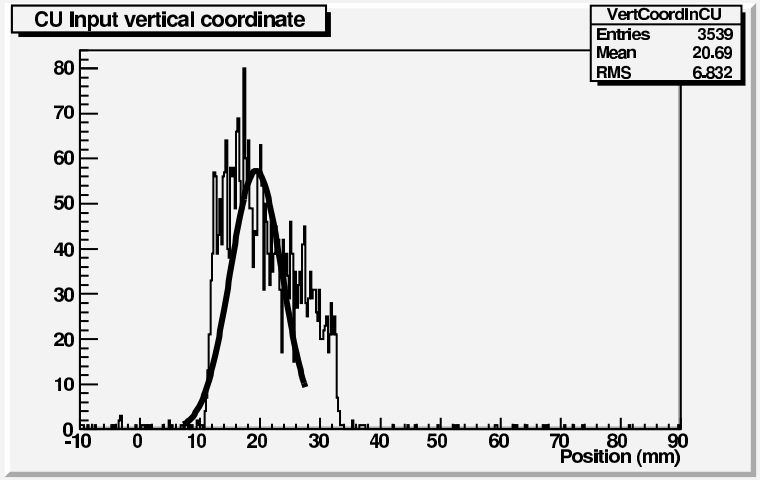

CU Input horizontal angle
HorAngleInCU
Entries 240
Mean 0.00222
RMS 0.007224
Angle (rad)

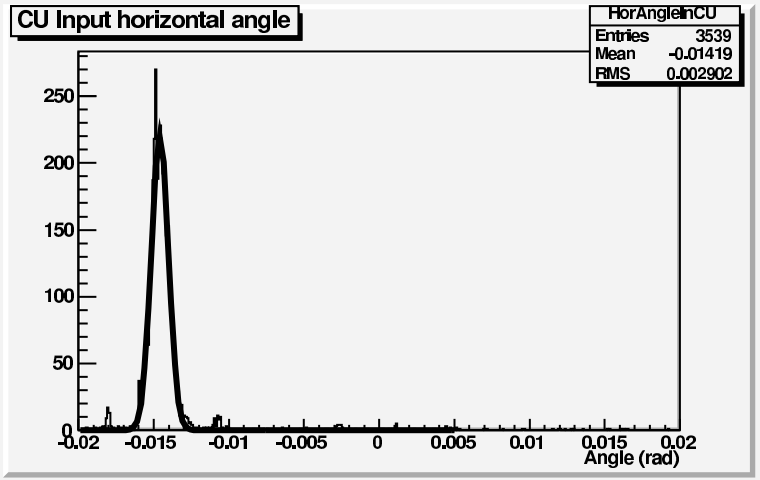

CU Input vertical angle
VertAngleInCU
Entries 240
Mean 0.004302
RMS 0.006632
Angle (rad)

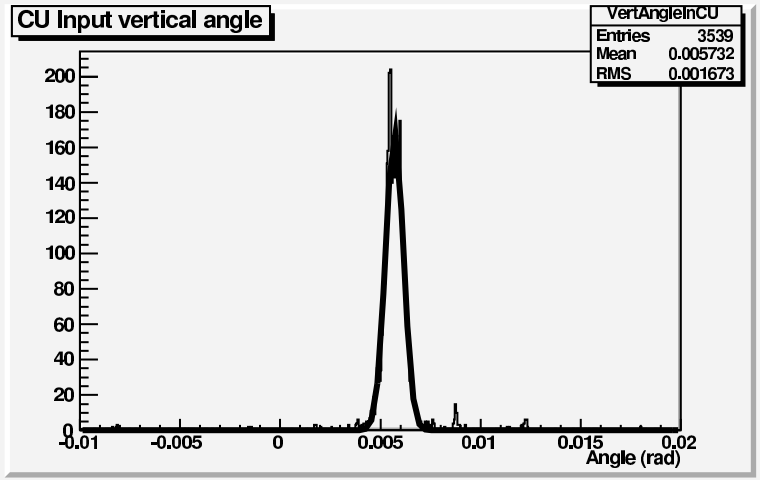

CU Input Beam Spot
SpotCoordInCU
Entries 240
Mean x 184.3
Mean y 33.64
RMS x 16.36
RMS y 9.229
Vertical Position (mm)
Horizontal Position (mm)

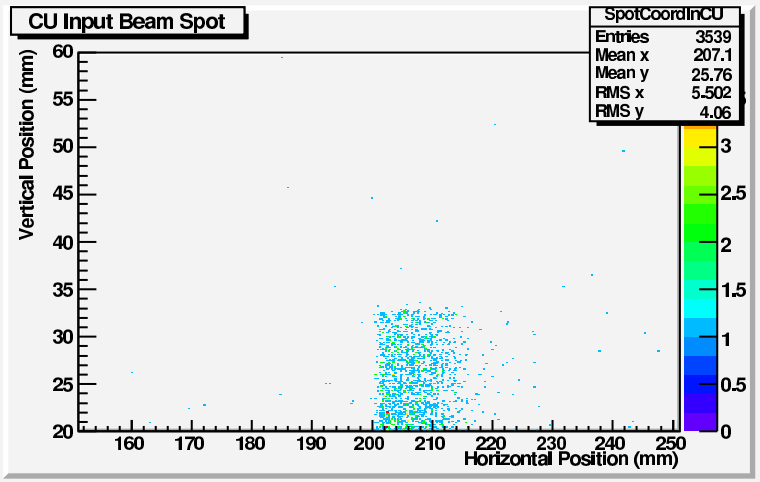

CU Input Beam Spot
SpotAngleInCU
Entries 240
Mean x 0.0009473
Mean y -0.007059
RMS x 0.009099
RMS y 0.01
Vertical Angle (rad)
Horizontal Angle (rad)

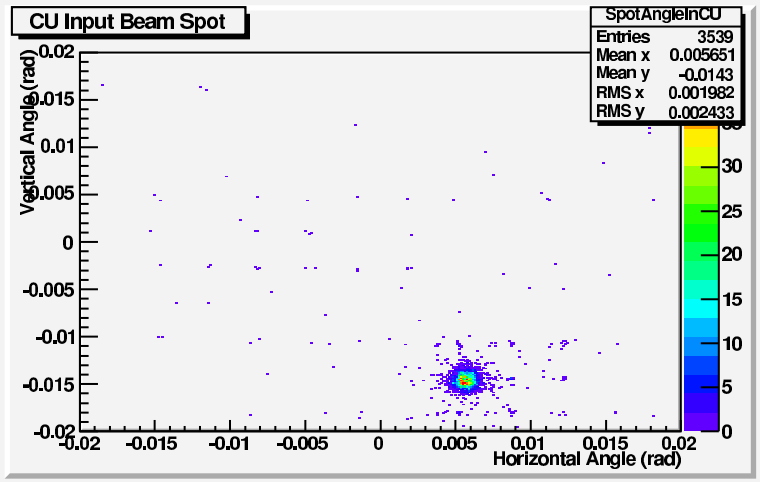

CU Input Horizontal coordinate
HorCoordInCU
Entries 3539
Mean 207.7
RMS 8.046
Position (mm)

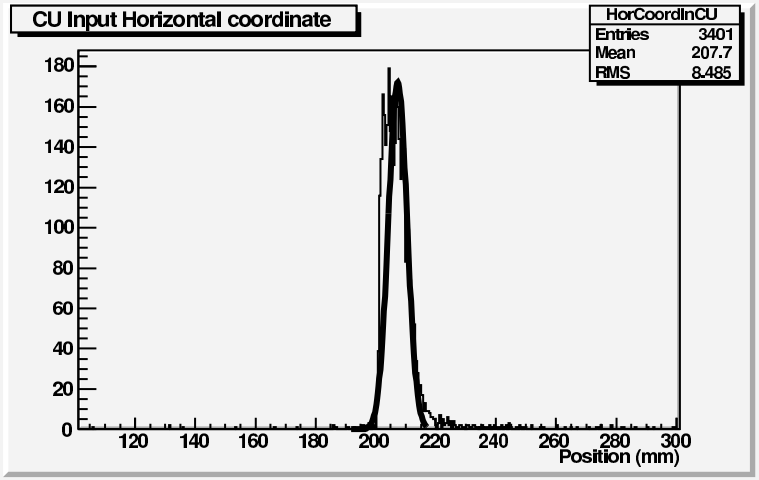

CU Input vertical coordinate
VertCoordInCU
Entries 3539
Mean 20.69
RMS 6.832
Position (mm)

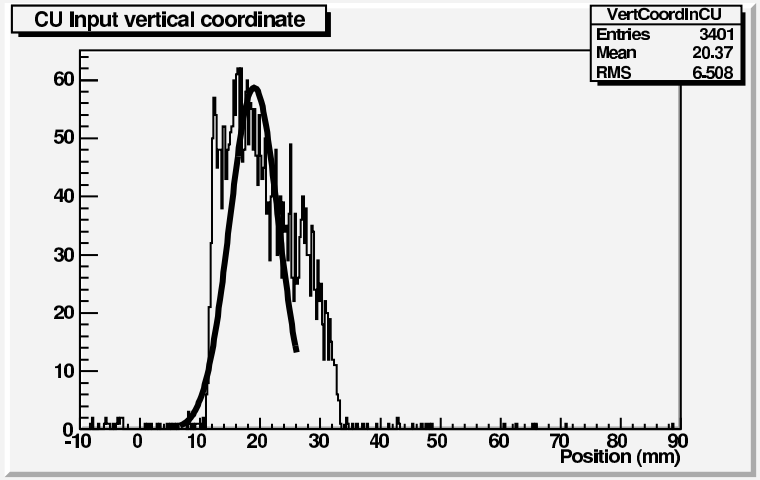

CU Input horizontal angle
HorAngleInCU
Entries 3539
Mean -0.01419
RMS 0.002902
Angle (rad)

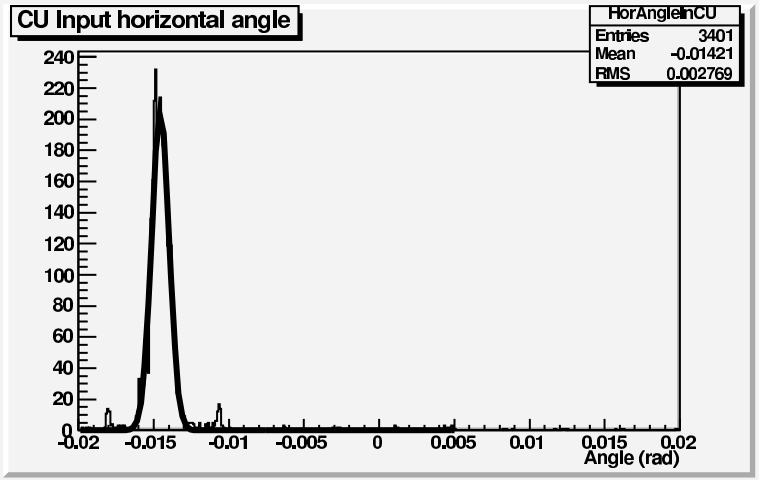

CU Input vertical angle
VertAngleInCU
Entries 3539
Mean 0.005732
RMS 0.001673
Angle (rad)

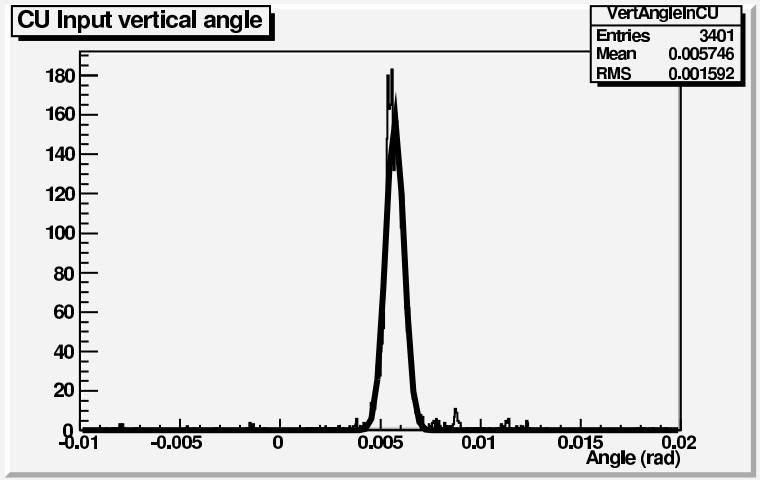

CU Input Beam Spot
SpotCoordInCU
Entries 3539
Mean x 207.1
Mean y 25.76
RMS x 5.502
RMS y 4.06
Vertical Position (mm)
Horizontal Position (mm)

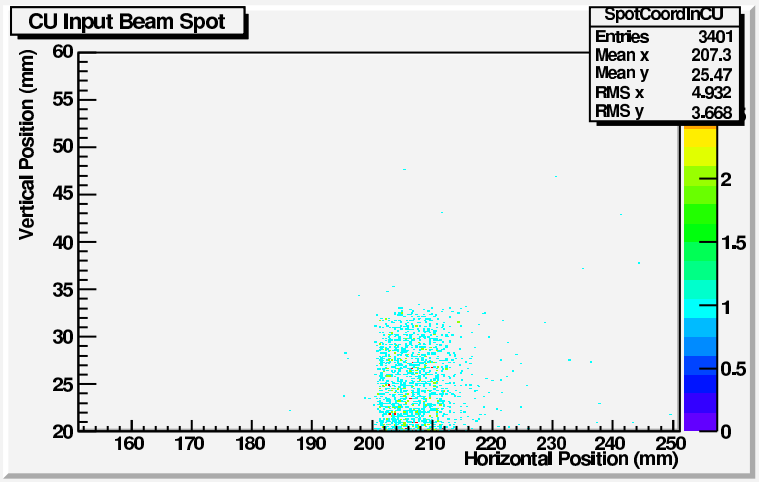

CU Input Beam Spot
SpotAngleInCU
Entries 3539
Mean x 0.005651
Mean y -0.0143
RMS x 0.001982
RMS y 0.002433
Vertical Angle (rad)
Horizontal Angle (rad)

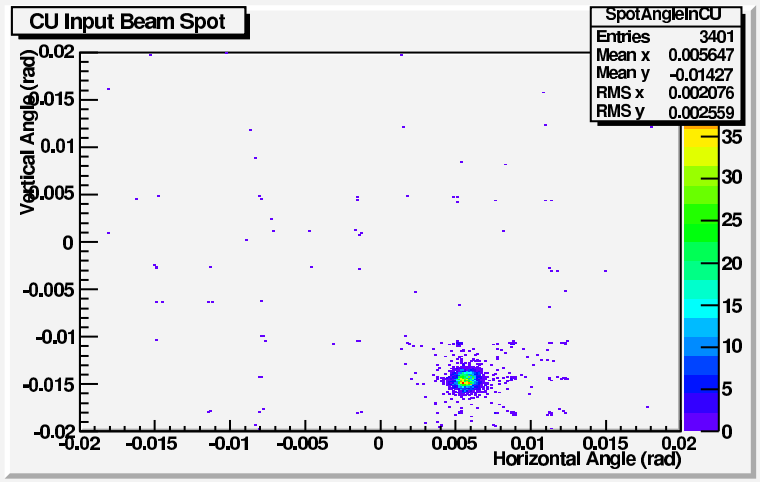

CU Input Horizontal coordinate
HorCoordInCU
Entries 3401
Mean 207.7
RMS 8.485
Position (mm)

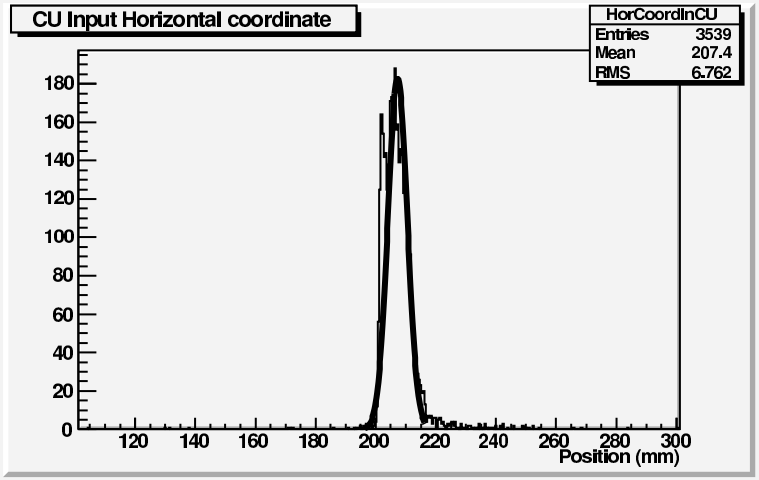

CU Input vertical coordinate
VertCoordInCU
Entries 3401
Mean 20.37
RMS 6.508
Position (mm)

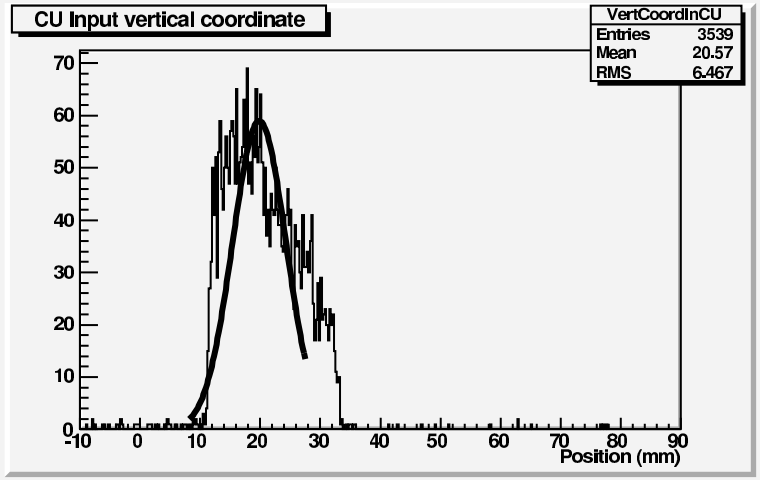

CU Input horizontal angle
HorAngleInCU
Entries 3401
Mean -0.01421
RMS 0.002769
Angle (rad)

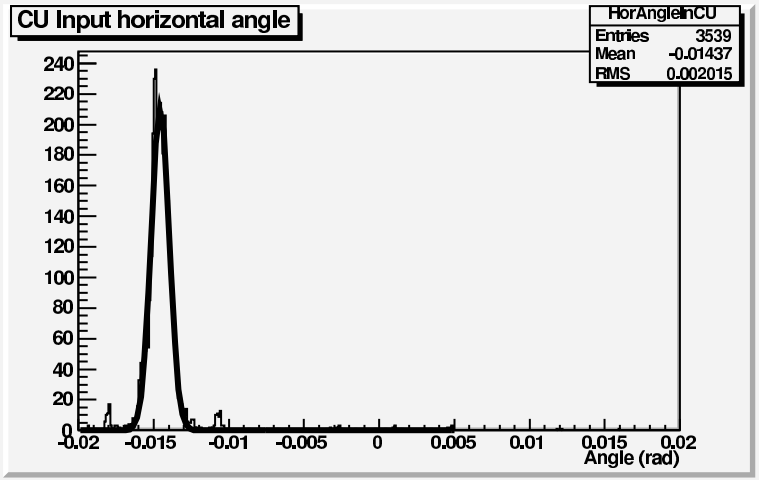

CU Input vertical angle
VertAngleInCU
Entries 3401
Mean 0.005746
RMS 0.001592
Angle (rad)

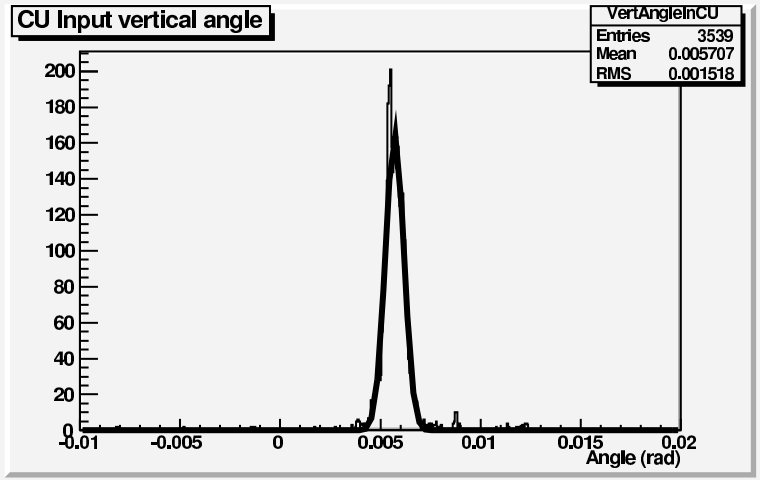

CU Input Beam Spot
SpotCoordInCU
Entries 3401
Mean x 207.3
Mean y 25.47
RMS x 4.932
RMS y 3.668
Vertical Position (mm)
Horizontal Position (mm)

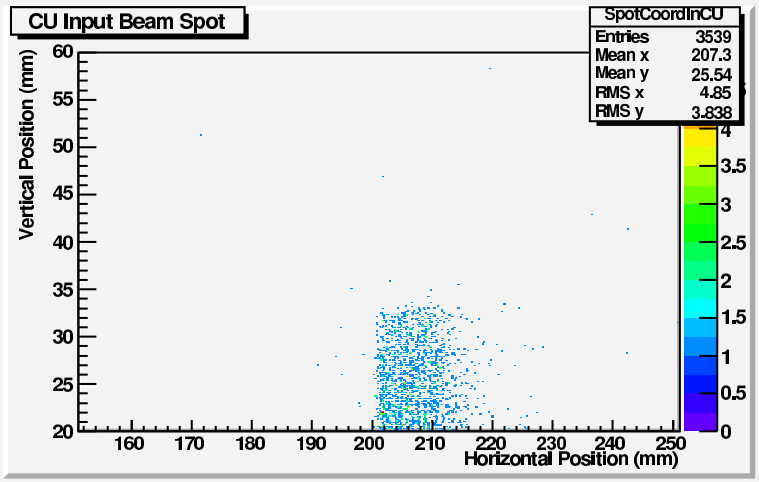

CU Input Beam Spot
SpotAngleInCU
Entries 3401
Mean x 0.005647
Mean y -0.01427
RMS x 0.002076
RMS y 0.002559
Vertical Angle (rad)
Horizontal Angle (rad)

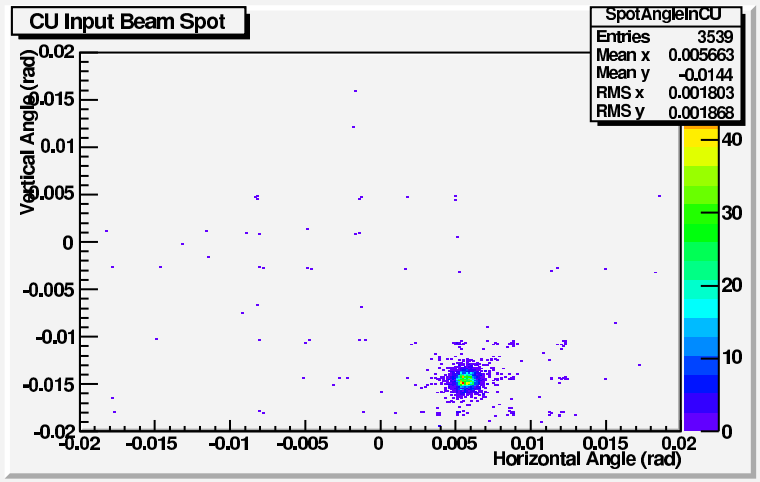

CU Input Horizontal coordinate
HorCoordInCU
Entries 3539
Mean 207.4
RMS 6.762
Position (mm)

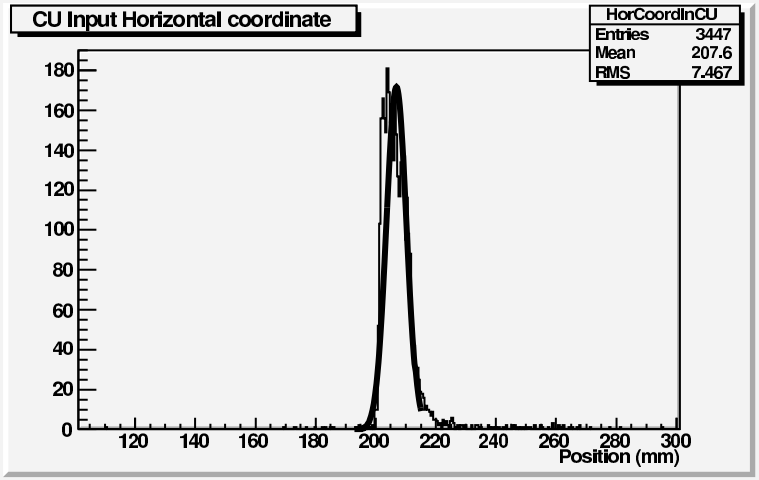

CU Input vertical coordinate
VertCoordInCU
Entries 3539
Mean 20.57
RMS 6.467
Position (mm)

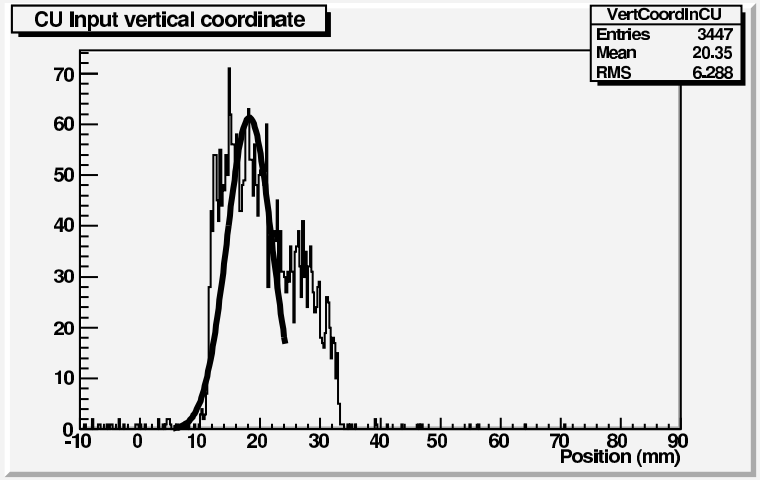

CU Input horizontal angle
HorAngleInCU
Entries 3539
Mean -0.01437
RMS 0.002015
Angle (rad)

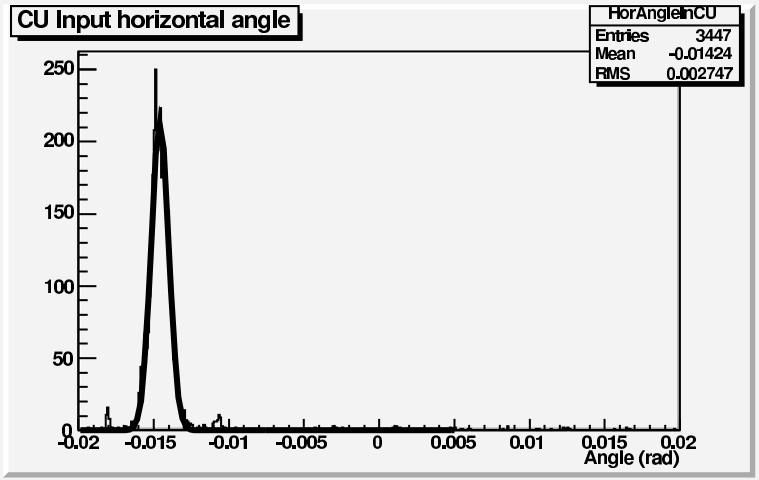

CU Input vertical angle
VertAngleInCU
Entries 3539
Mean 0.005707
RMS 0.001518
Angle (rad)

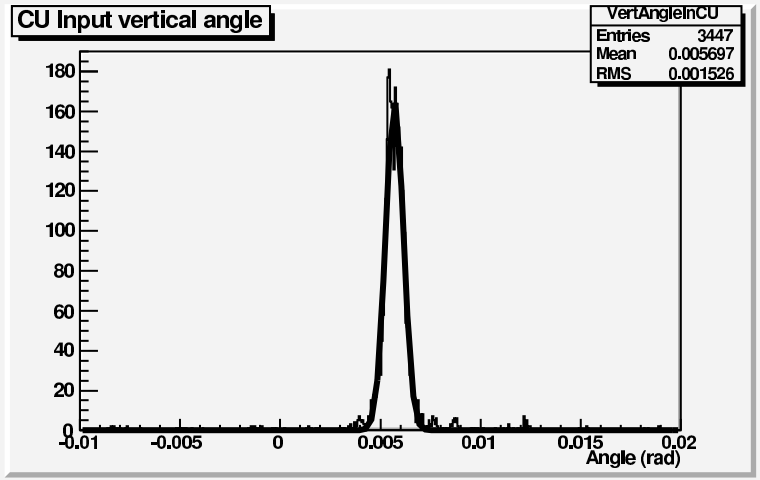

CU Input Beam Spot
SpotCoordInCU
Entries 3539
Mean x 207.3
Mean y 25.54
RMS x 4.85
RMS y 3.838
Vertical Position (mm)
Horizontal Position (mm)

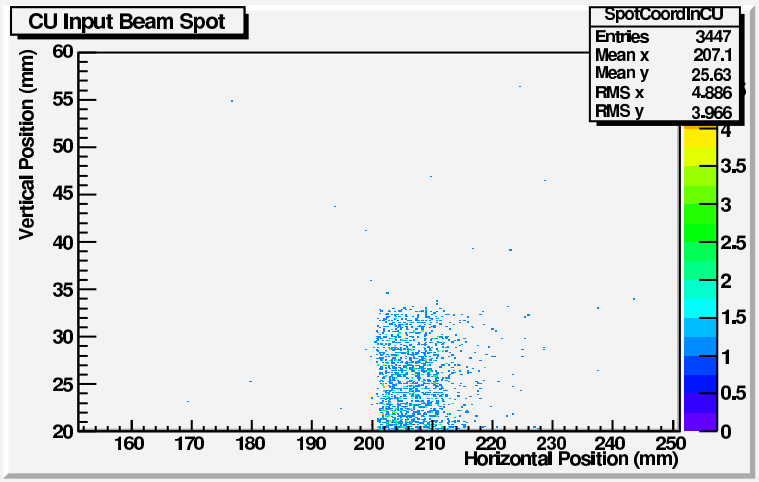

CU Input Beam Spot
SpotAngleInCU
Entries 3539
Mean x 0.005663
Mean y -0.0144
RMS x 0.001803
RMS y 0.001868
Vertical Angle (rad)
Horizontal Angle (rad)

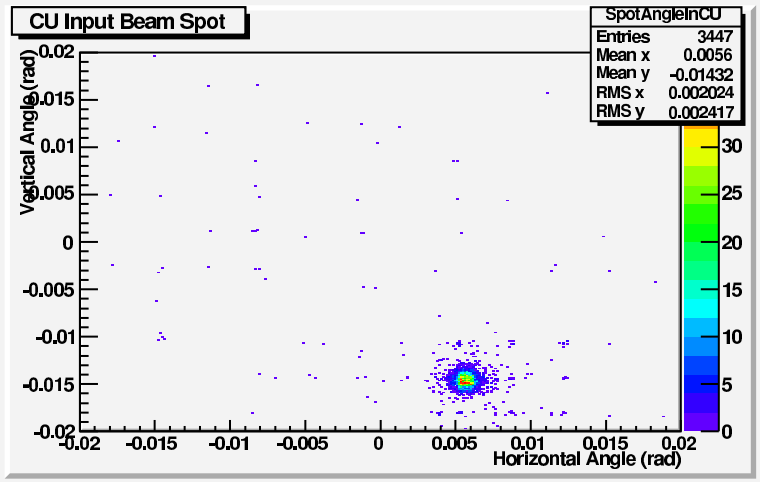

CU Input Horizontal coordinate
HorCoordInCU
Entries 3447
Mean 207.6
RMS 7.467
Position (mm)

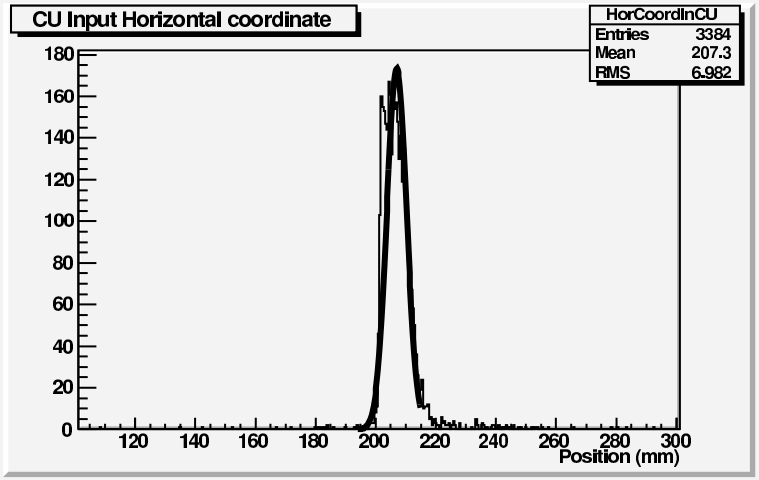

CU Input vertical coordinate
VertCoordInCU
Entries 3447
Mean 20.35
RMS 6.288
Position (mm)

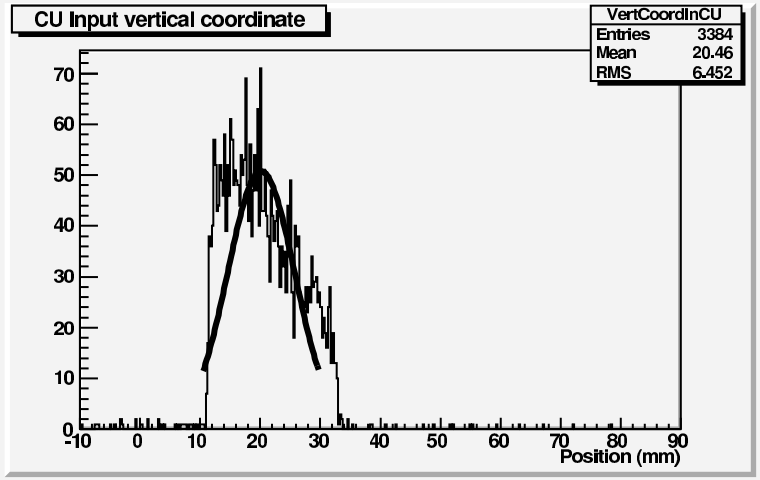

CU Input horizontal angle
HorAngleInCU
Entries 3447
Mean -0.01424
RMS 0.002747
Angle (rad)

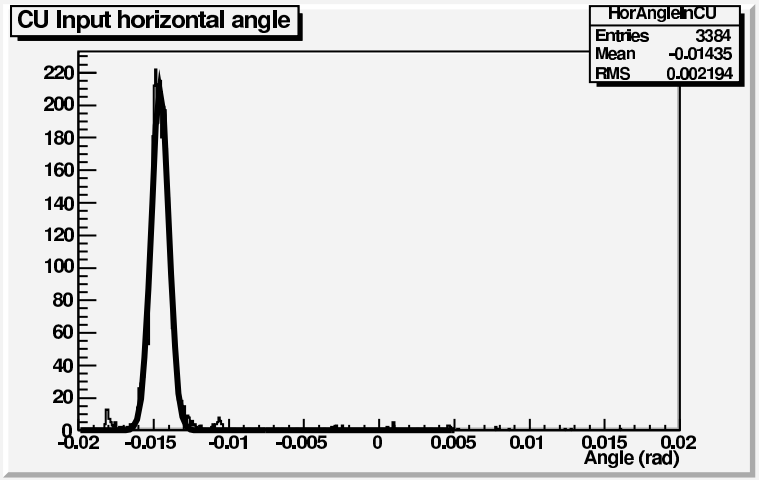

CU Input vertical angle
VertAngleInCU
Entries 3447
Mean 0.005697
RMS 0.001526
Angle (rad)

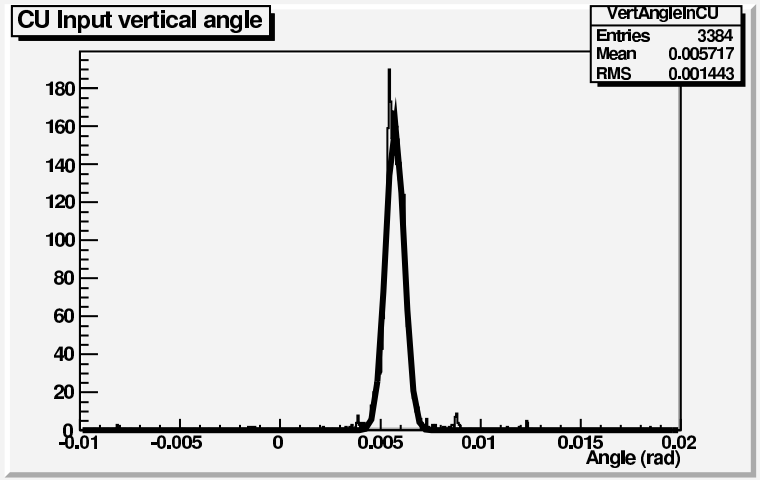

CU Input Beam Spot
SpotCoordInCU
Entries 3447
Mean x 207.1
Mean y 25.63
RMS x 4.886
RMS y 3.966
Vertical Position (mm)
Horizontal Position (mm)

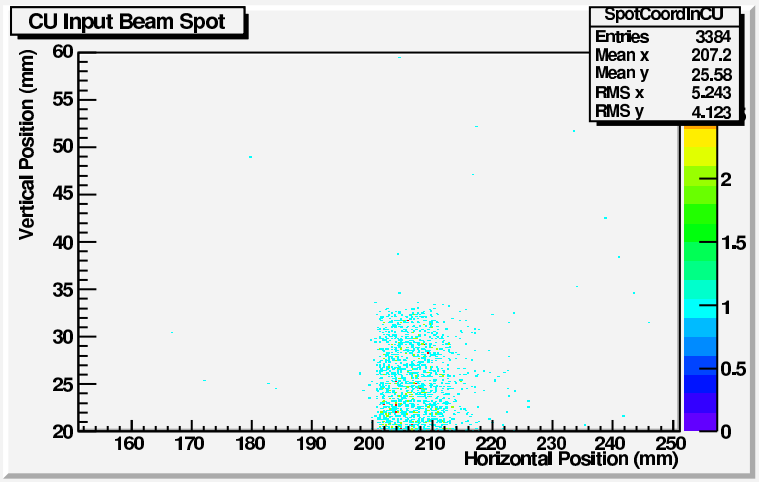

CU Input Beam Spot
SpotAngleInCU
Entries 3447
Mean x 0.0056
Mean y -0.01432
RMS x 0.002024
RMS y 0.002417
Vertical Angle (rad)
Horizontal Angle (rad)

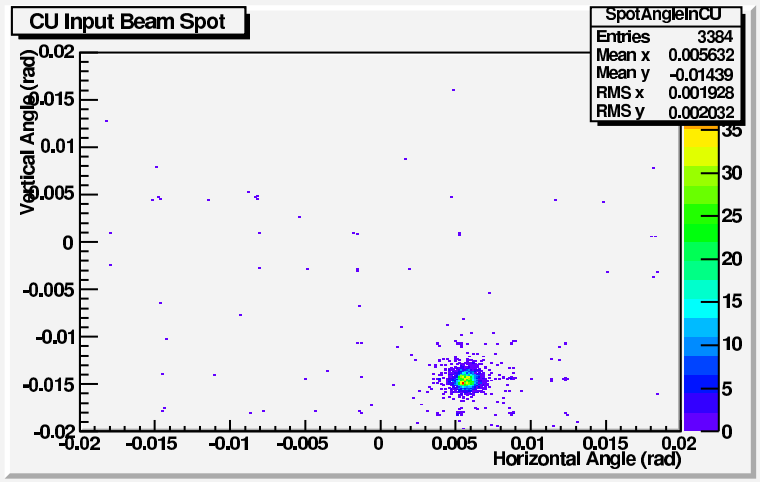

CU Input Horizontal coordinate
HorCoordInCU
Entries 3384
Mean 207.3
RMS 6.982
Position (mm)

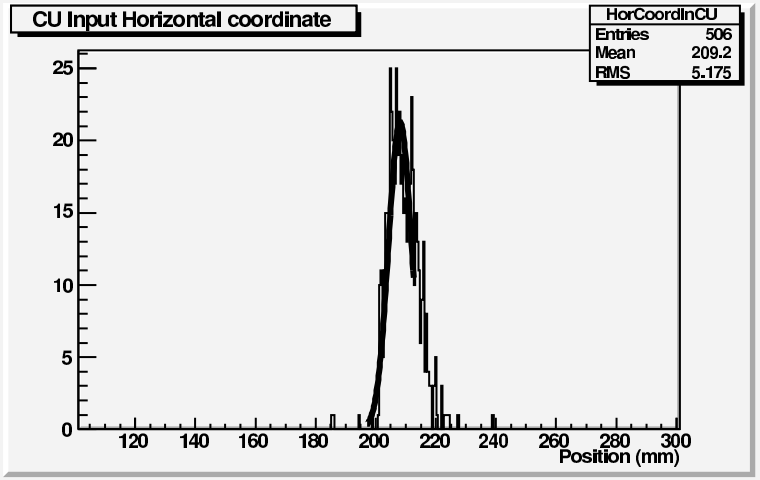

CU Input vertical coordinate
VertCoordInCU
Entries 3384
Mean 20.46
RMS 6.452
Position (mm)

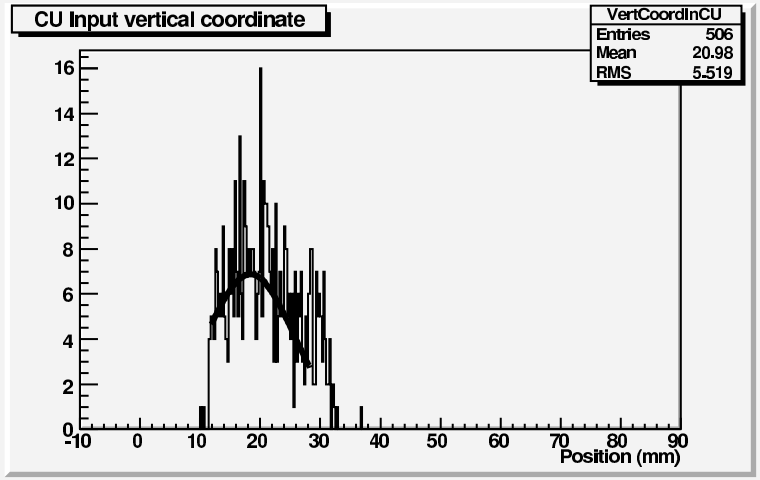

CU Input horizontal angle
HorAngleInCU
Entries 3384
Mean -0.01435
RMS 0.002194
Angle (rad)

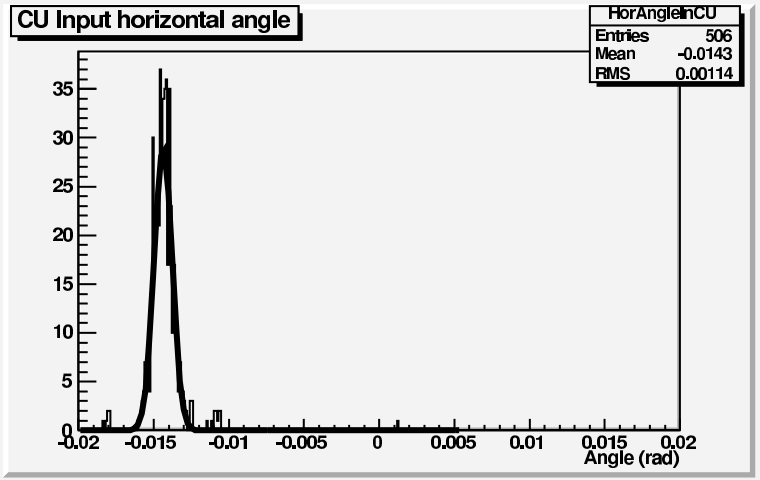

CU Input vertical angle
VertAngleInCU
Entries 3384
Mean 0.005717
RMS 0.001443
Angle (rad)

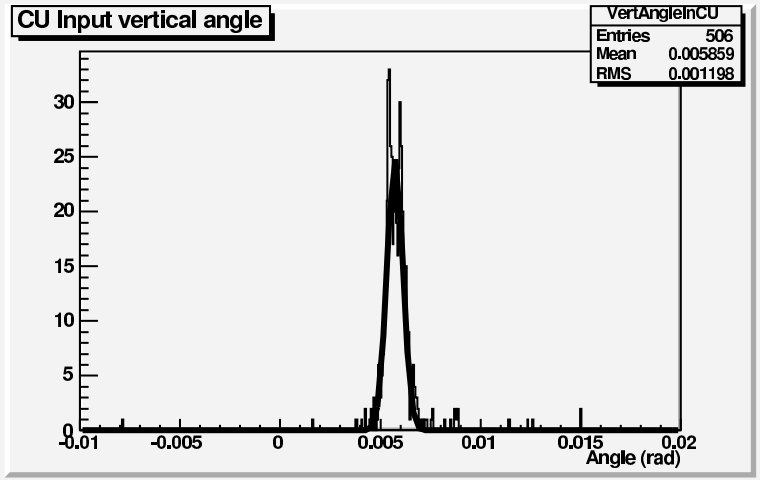

CU Input Beam Spot
SpotCoordInCU
Entries 3384
Mean x 207.2
Mean y 25.58
RMS x 5.243
RMS y 4.123
Vertical Position (mm)
Horizontal Position (mm)

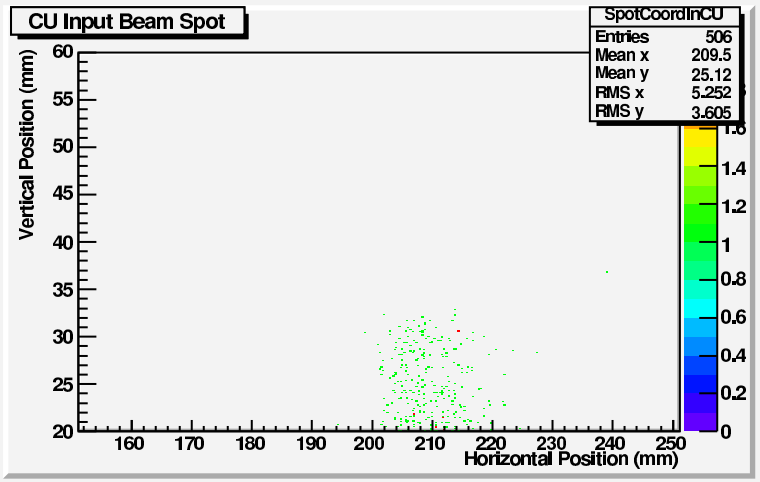

CU Input Beam Spot
SpotAngleInCU
Entries 3384
Mean x 0.005632
Mean y -0.01439
RMS x 0.001928
RMS y 0.002032
Vertical Angle (rad)
Horizontal Angle (rad)

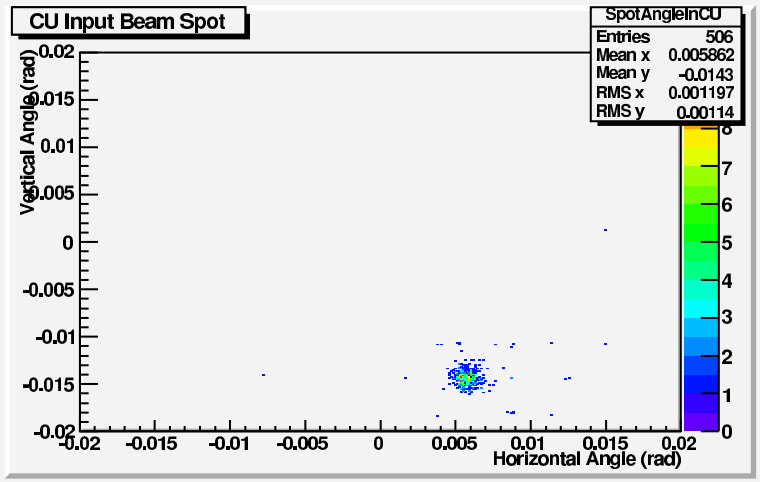

CU Input Horizontal coordinate
HorCoordInCU
Entries 506
Mean 209.2
RMS 5.175
Position (mm)

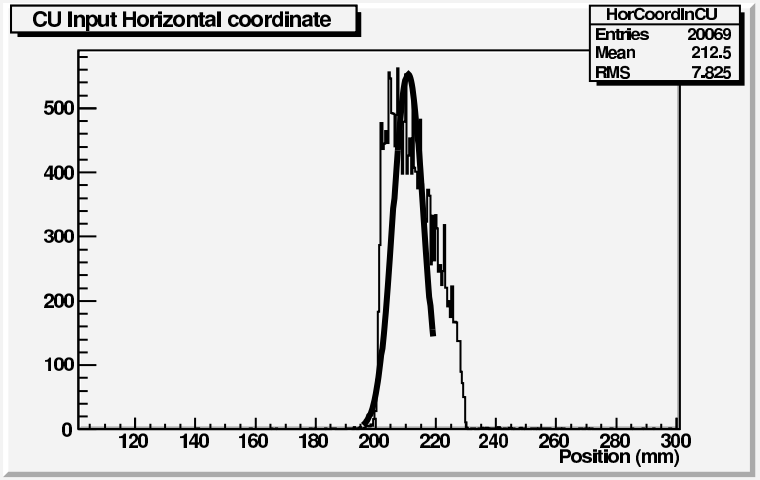

CU Input vertical coordinate
VertCoordInCU
Entries 506
Mean 20.98
RMS 5.519
Position (mm)

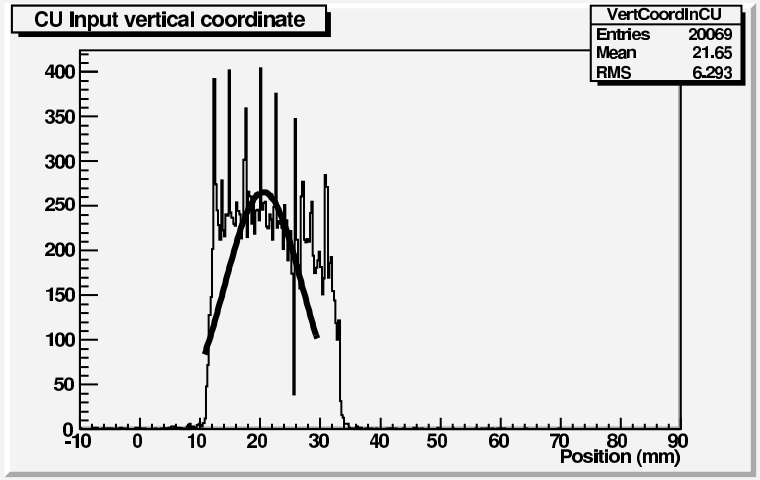

CU Input horizontal angle
HorAngleInCU
Entries 506
Mean -0.0143
RMS 0.00114
Angle (rad)

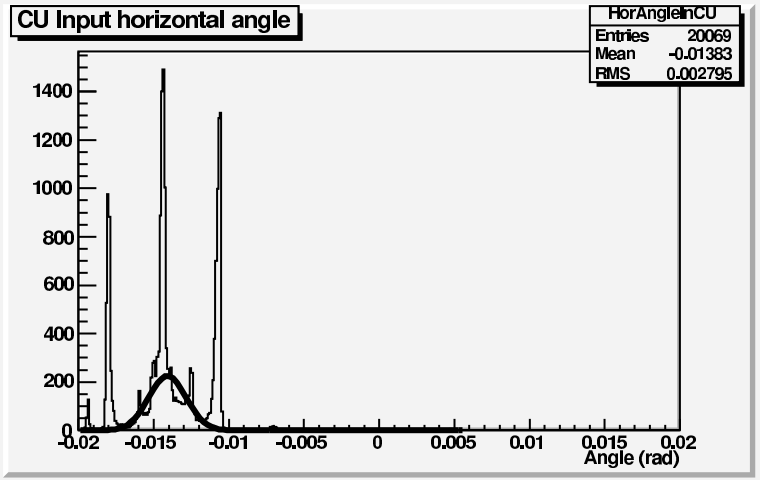

CU Input vertical angle
VertAngleInCU
Entries 506
Mean 0.005859
RMS 0.001198
Angle (rad)

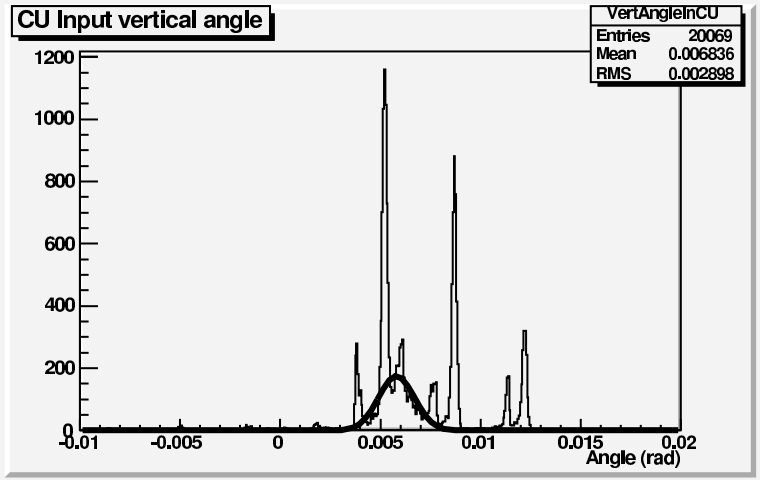

CU Input Beam Spot
SpotCoordInCU
Entries 506
Mean x 209.5
Mean y 25.12
RMS x 5.252
RMS y 3.605
Vertical Position (mm)
Horizontal Position (mm)

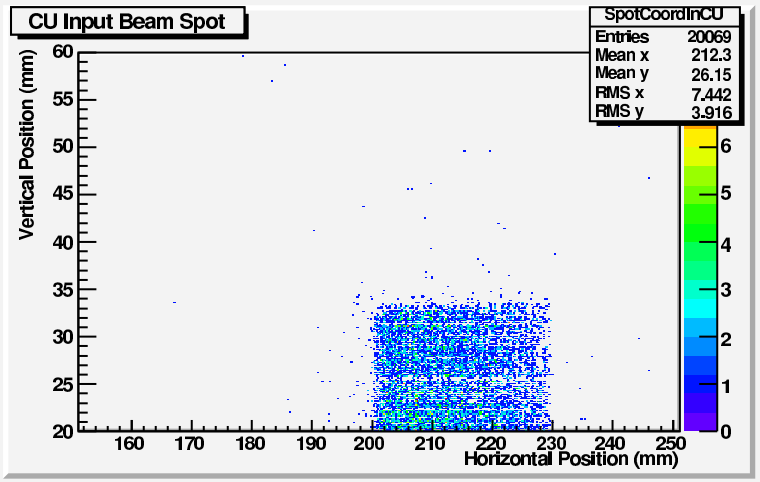

CU Input Beam Spot
SpotAngleInCU
Entries 506
Mean x 0.005862
Mean y -0.0143
RMS x 0.001197
RMS y 0.00114
Vertical Angle (rad)
Horizontal Angle (rad)

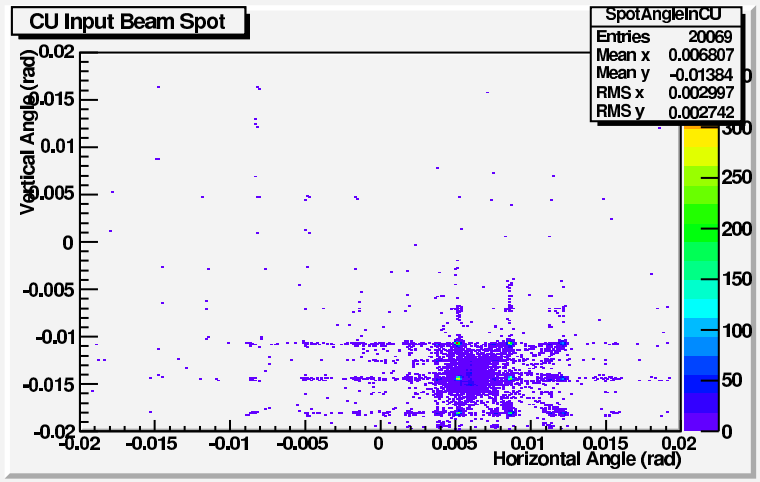

CU Input Horizontal coordinate
HorCoordInCU
Entries 20069
Mean 212.5
RMS 7.825
Position (mm)

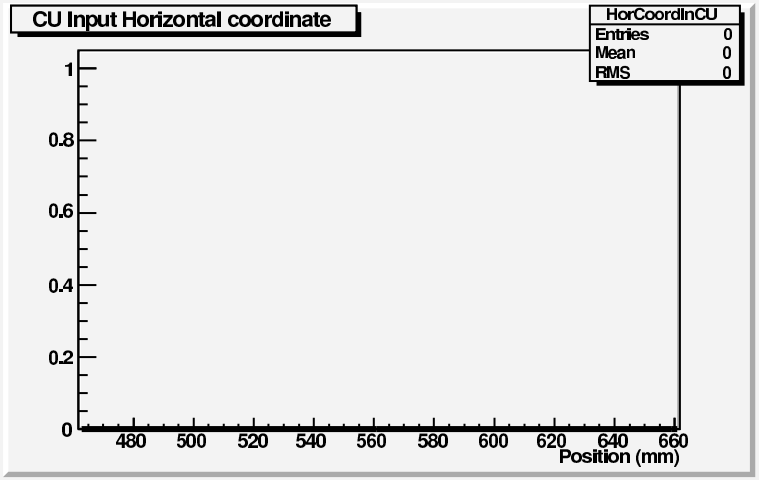

CU Input vertical coordinate
VertCoordInCU
Entries 20069
Mean 21.65
RMS 6.293
Position (mm)

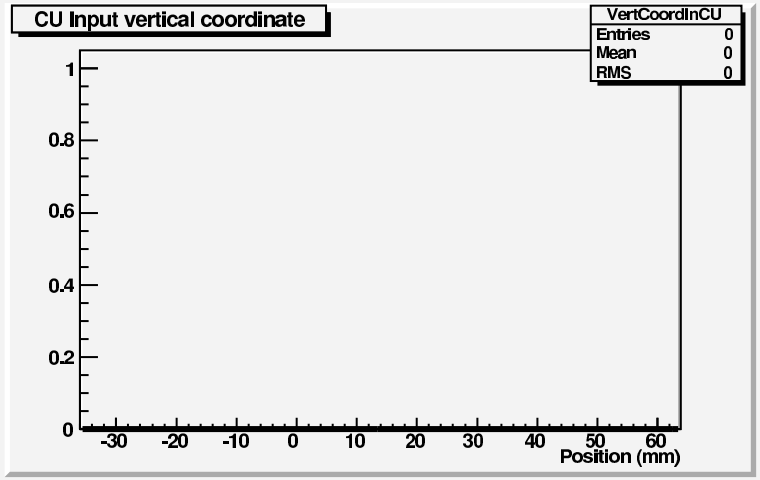

CU Input horizontal angle
HorAngleInCU
Entries 20069
Mean -0.01383
RMS 0.002795
Angle (rad)

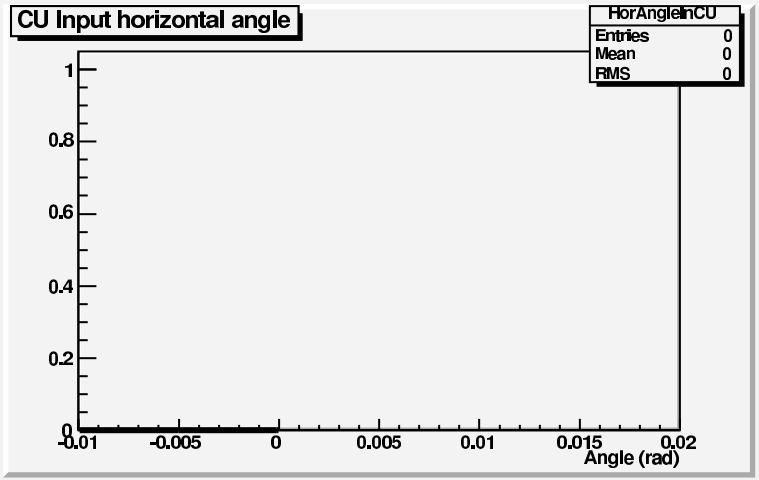

CU Input vertical angle
VertAngleInCU
Entries 20069
Mean 0.006836
RMS 0.002898
Angle (rad)

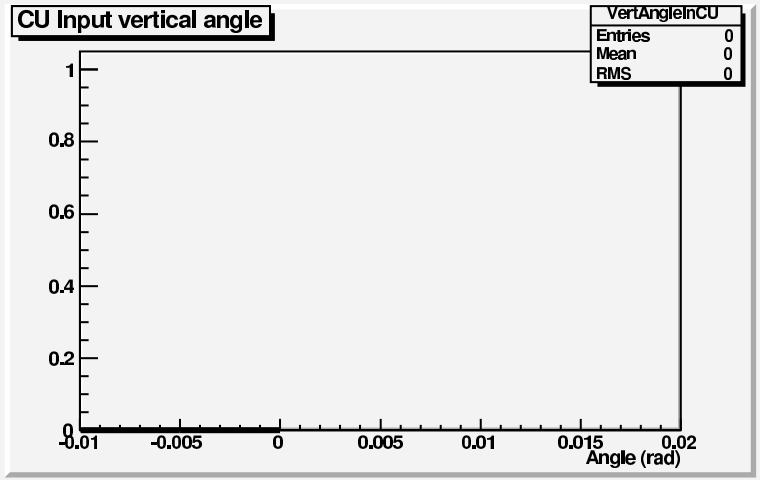

CU Input Beam Spot
SpotCoordInCU
Entries 20069
Mean x 212.3
Mean y 26.15
RMS x 7.442
RMS y 3.916
Vertical Position (mm)
Horizontal Position (mm)

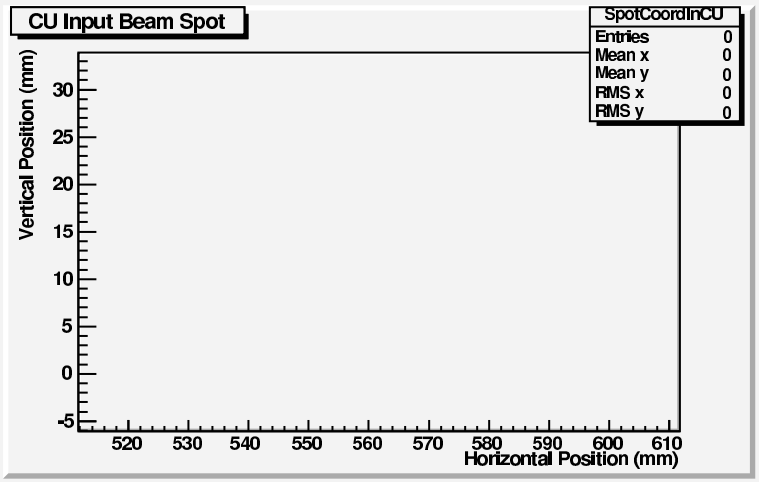

CU Input Beam Spot
SpotAngleInCU
Entries 20069
Mean x 0.006807
Mean y -0.01384
RMS x 0.002997
RMS y 0.002742
Vertical Angle (rad)
Horizontal Angle (rad)

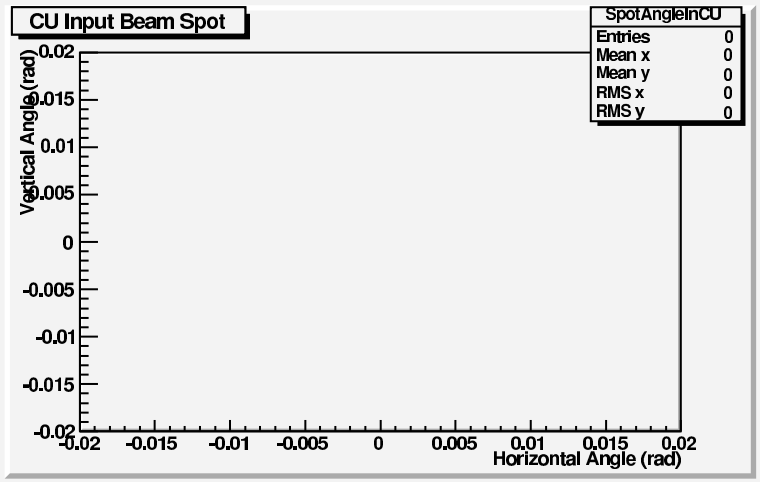

CU Input Horizontal coordinate
HorCoordInCU
Entries 0
Mean 0
RMS 0
Position (mm)

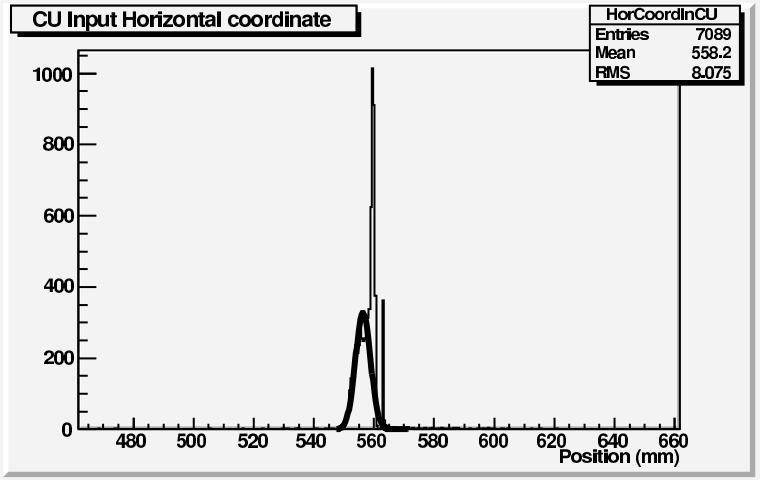

CU Input vertical coordinate
VertCoordInCU
Entries 0
Mean 0
RMS 0
Position (mm)

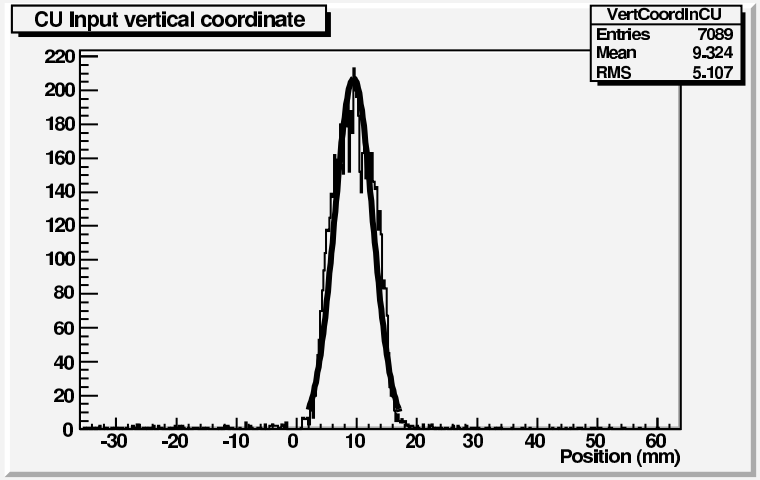

CU Input horizontal angle
HorAngleInCU
Entries 0
Mean 0
RMS 0
Angle (rad)

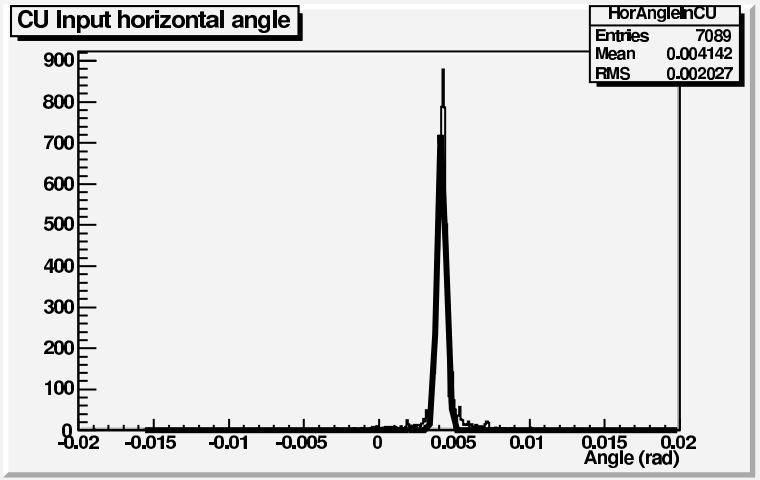

CU Input vertical angle
VertAngleInCU
Entries 0
Mean 0
RMS 0
Angle (rad)

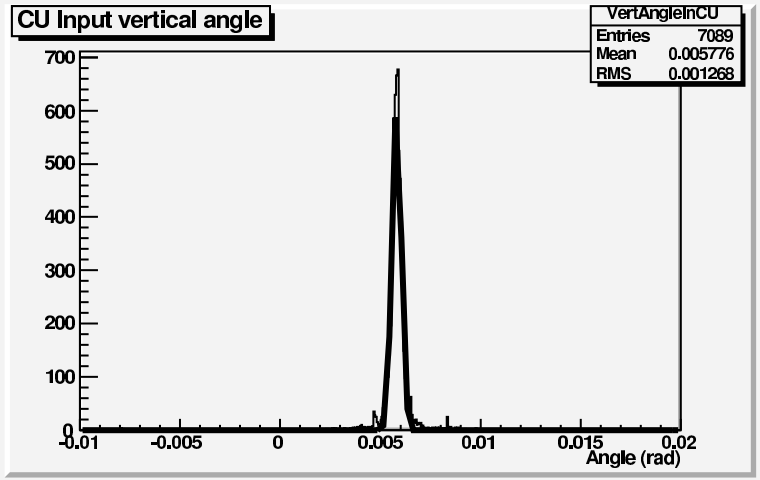

CU Input Beam Spot
SpotCoordInCU
Entries 0
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Position (mm)
Horizontal Position (mm)

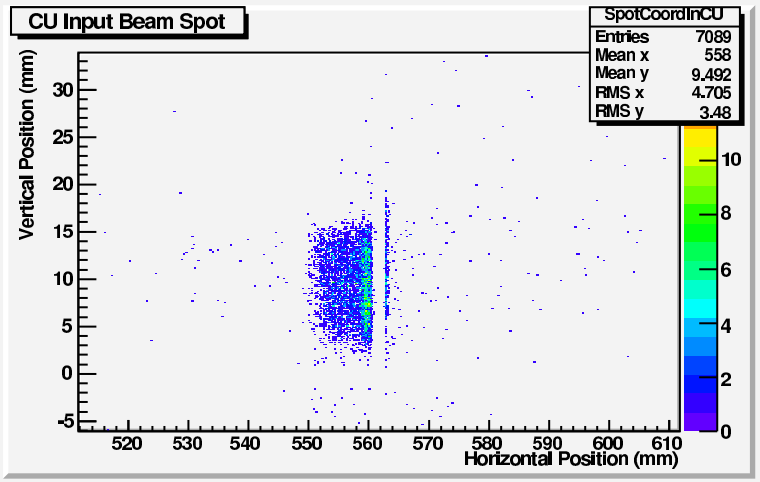

CU Input Beam Spot
SpotAngleInCU
Entries 0
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

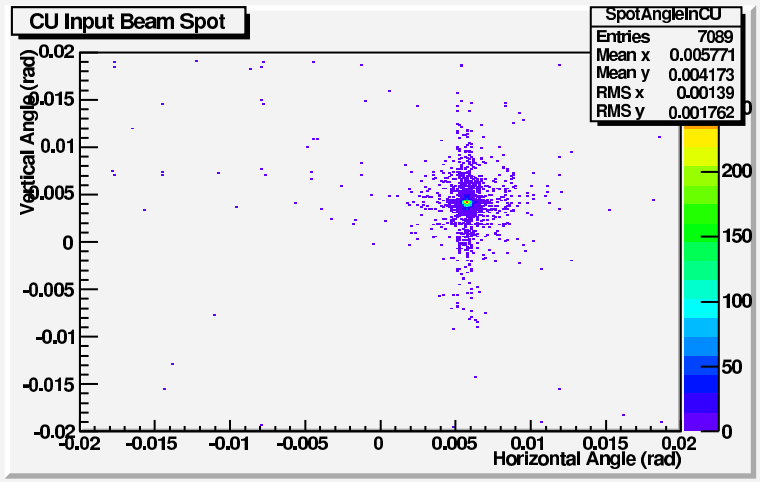

CU Input Horizontal coordinate
HorCoordInCU
Entries 7089
Mean 558.2
RMS 8.075
Position (mm)

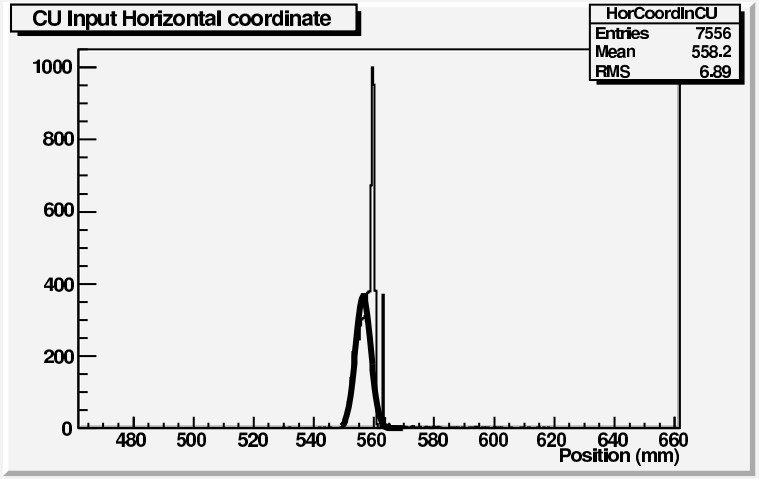

CU Input vertical coordinate
VertCoordInCU
Entries 7089
Mean 9.324
RMS 5.107
Position (mm)

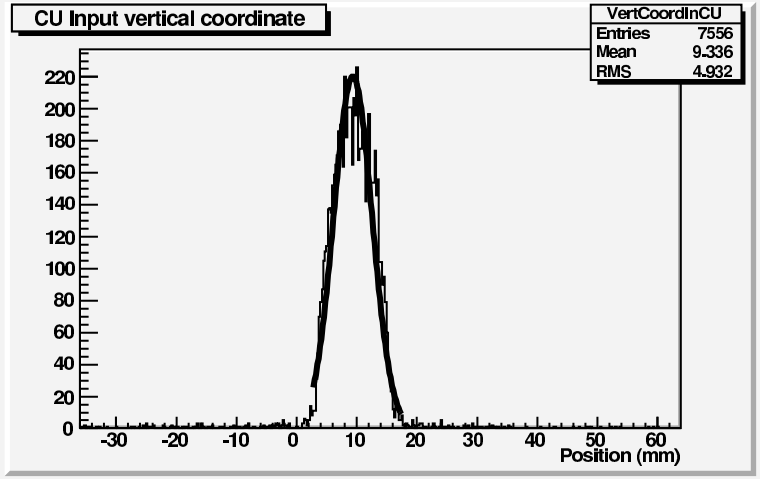

CU Input horizontal angle
HorAngleInCU
Entries 7089
Mean 0.004142
RMS 0.002027
Angle (rad)

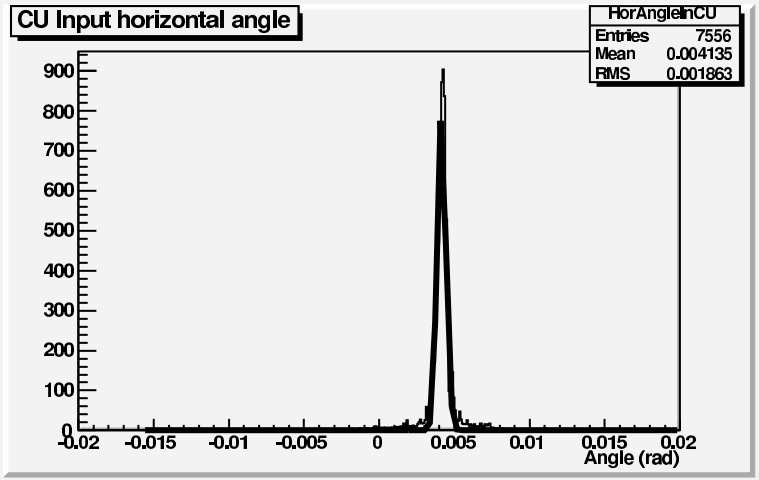

CU Input vertical angle
VertAngleInCU
Entries 7089
Mean 0.005776
RMS 0.001268
Angle (rad)

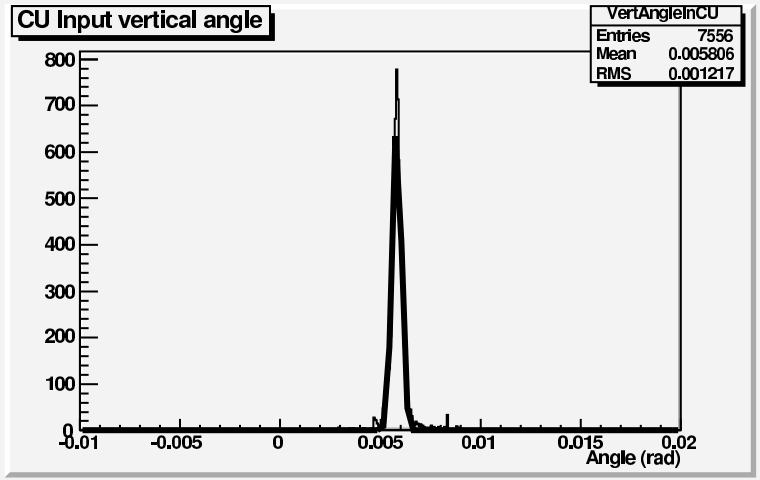

CU Input Beam Spot
SpotCoordInCU
Entries 7089
Mean x 558
Mean y 9.492
RMS x 4.705
RMS y 3.48
Vertical Position (mm)
Horizontal Position (mm)

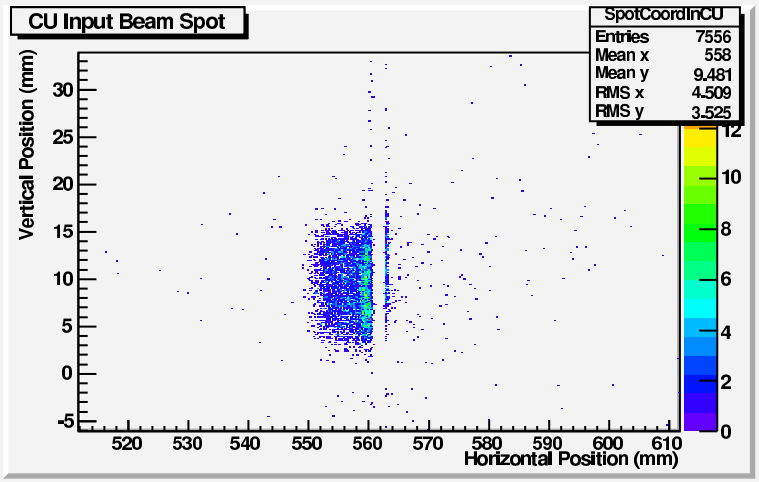

CU Input Beam Spot
SpotAngleInCU
Entries 7089
Mean x 0.005771
Mean y 0.004173
RMS x 0.00139
RMS y 0.001762
Vertical Angle (rad)
Horizontal Angle (rad)

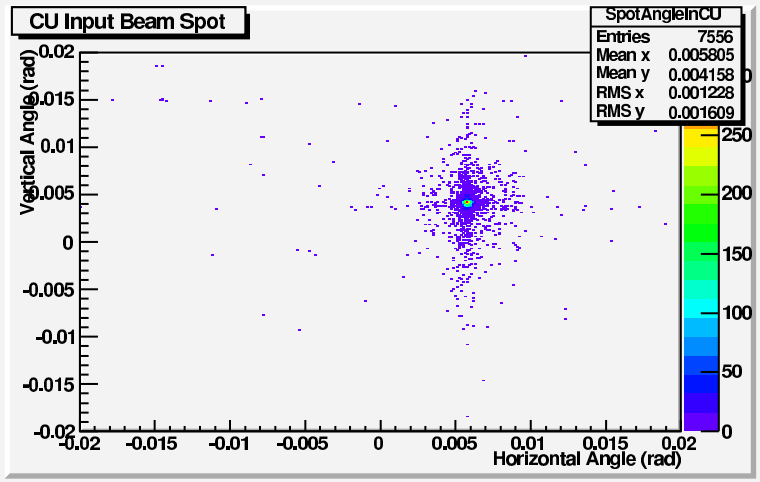

CU Input Horizontal coordinate
HorCoordInCU
Entries 7556
Mean 558.2
RMS 6.89
Position (mm)

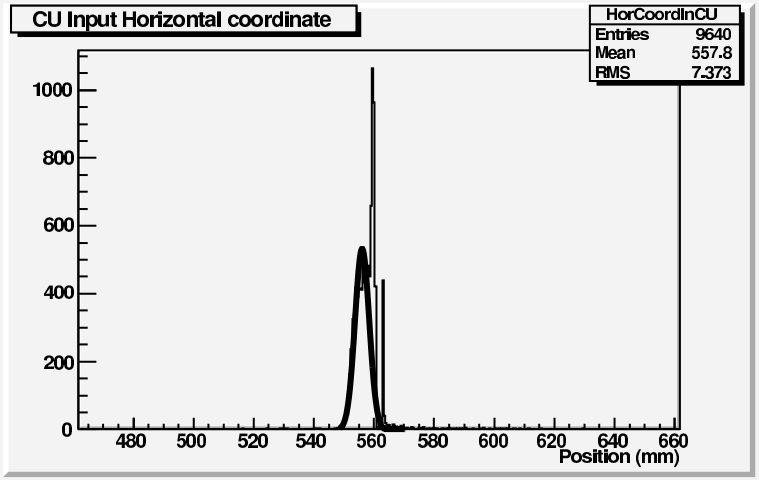

CU Input vertical coordinate
VertCoordInCU
Entries 7556
Mean 9.336
RMS 4.932
Position (mm)

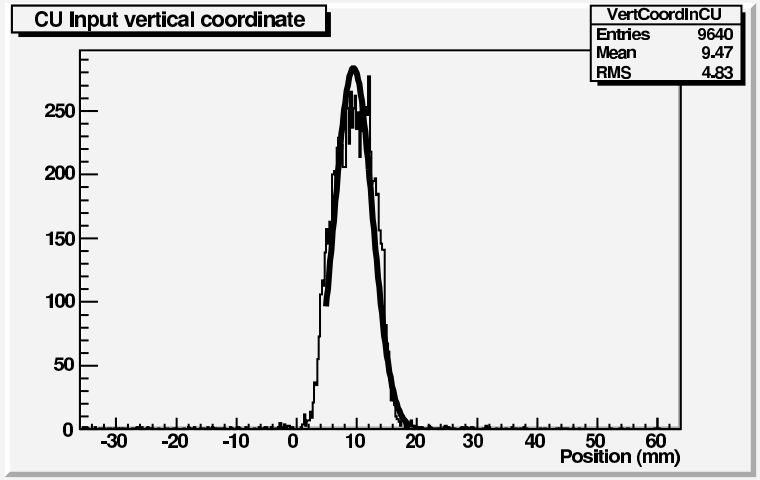

CU Input horizontal angle
HorAngleInCU
Entries 7556
Mean 0.004135
RMS 0.001863
Angle (rad)

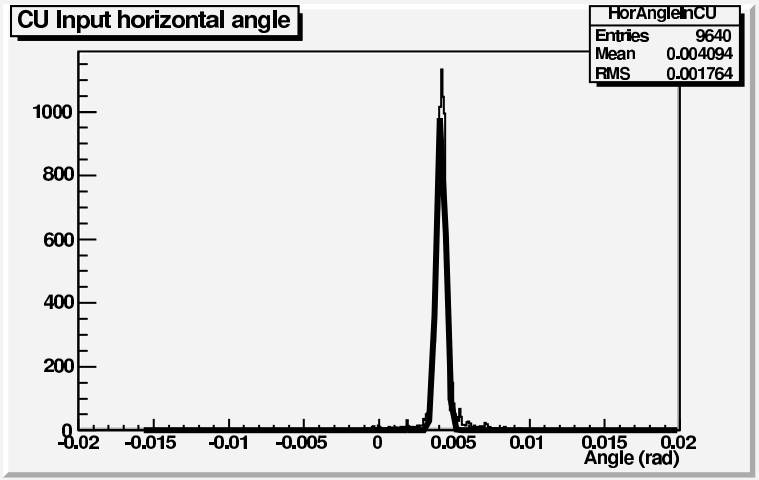

CU Input vertical angle
VertAngleInCU
Entries 7556
Mean 0.005806
RMS 0.001217
Angle (rad)

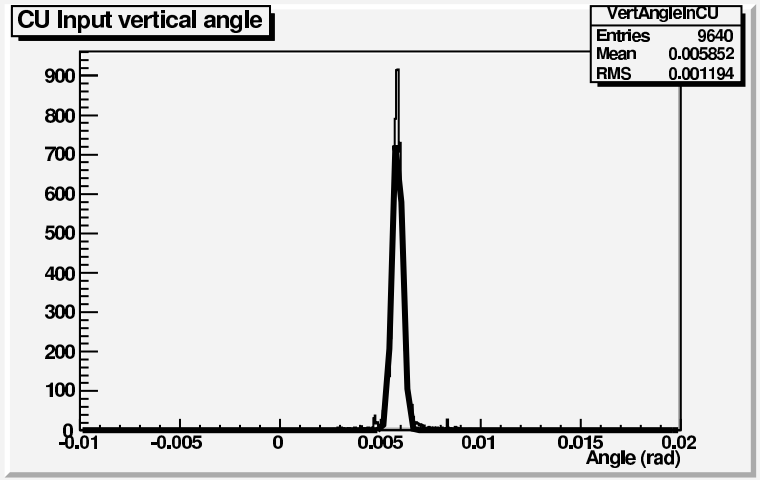

CU Input Beam Spot
SpotCoordInCU
Entries 7556
Mean x 558
Mean y 9.481
RMS x 4.509
RMS y 3.525
Vertical Position (mm)
Horizontal Position (mm)

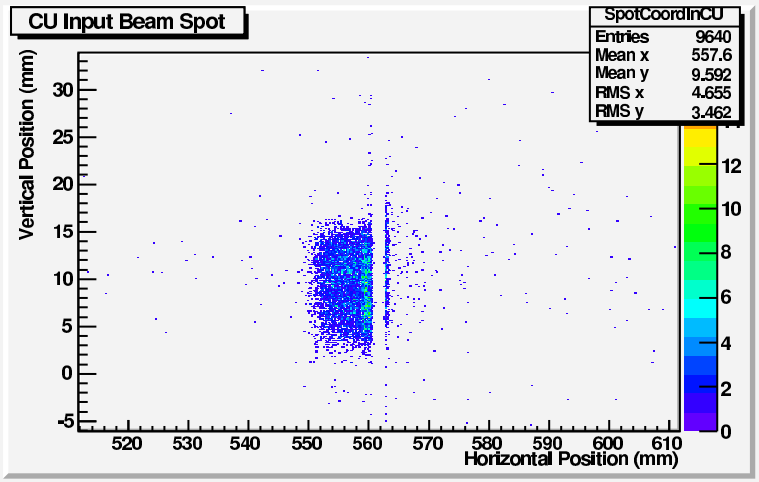

CU Input Beam Spot
SpotAngleInCU
Entries 7556
Mean x 0.005805
Mean y 0.004158
RMS x 0.001228
RMS y 0.001609
Vertical Angle (rad)
Horizontal Angle (rad)

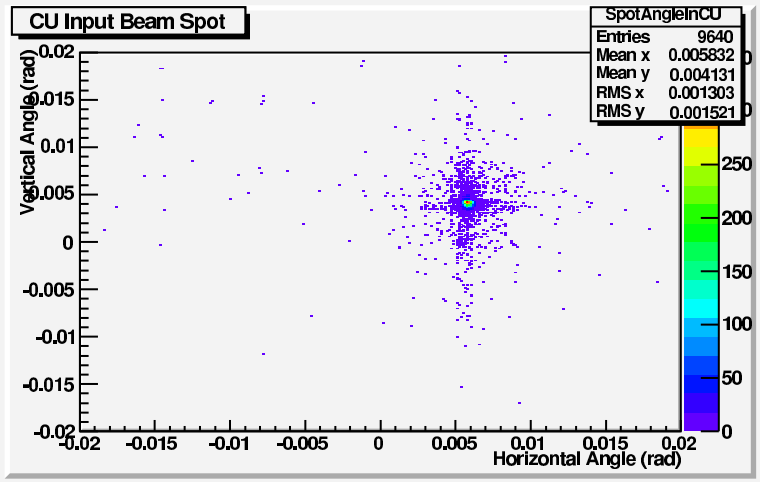

CU Input Horizontal coordinate
HorCoordInCU
Entries 9640
Mean 557.8
RMS 7.373
Position (mm)

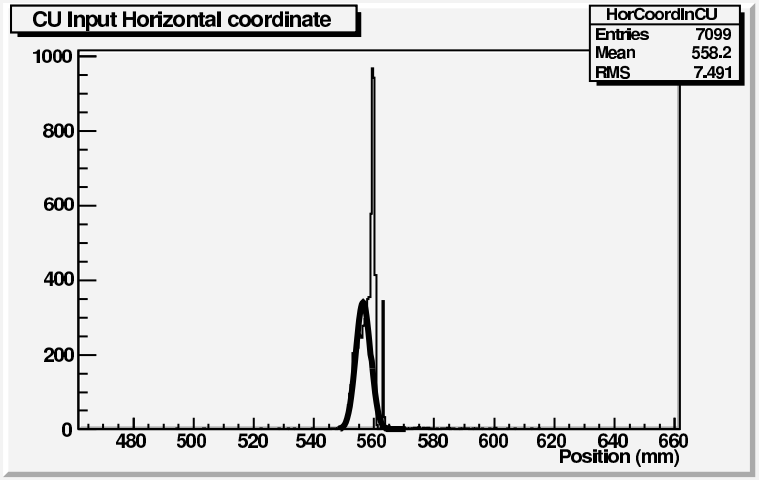

CU Input vertical coordinate
VertCoordInCU
Entries 9640
Mean 9.47
RMS 4.83
Position (mm)

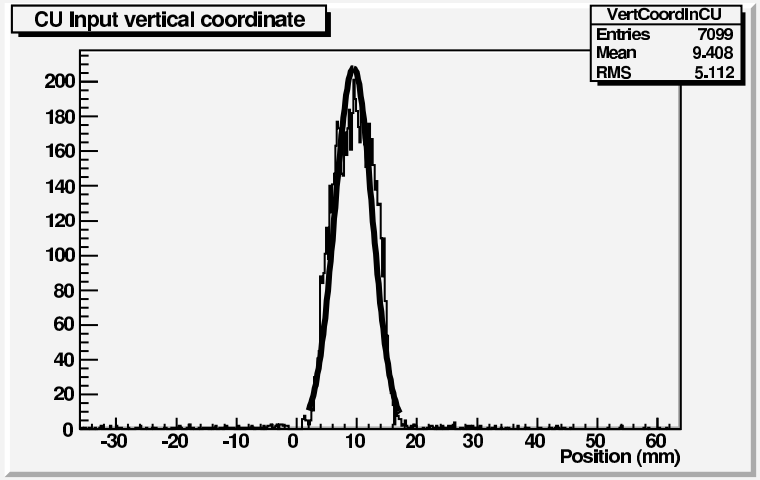

CU Input horizontal angle
HorAngleInCU
Entries 9640
Mean 0.004094
RMS 0.001764
Angle (rad)

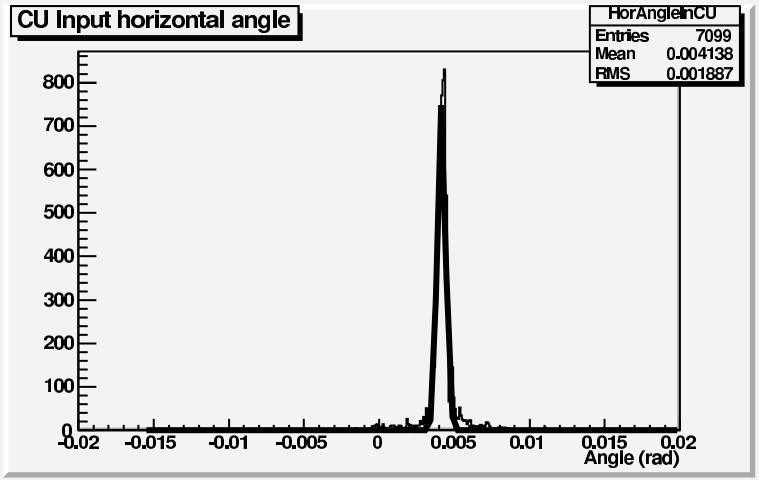

CU Input vertical angle
VertAngleInCU
Entries 9640
Mean 0.005852
RMS 0.001194
Angle (rad)

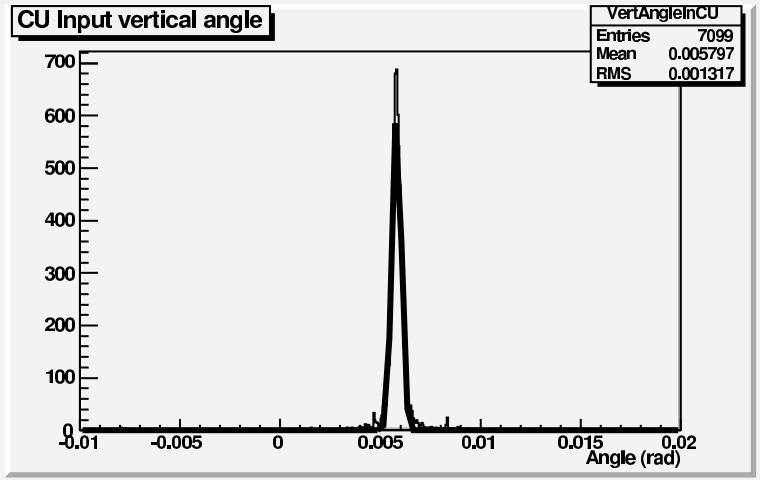

CU Input Beam Spot
SpotCoordInCU
Entries 9640
Mean x 557.6
Mean y 9.592
RMS x 4.655
RMS y 3.462
Vertical Position (mm)
Horizontal Position (mm)

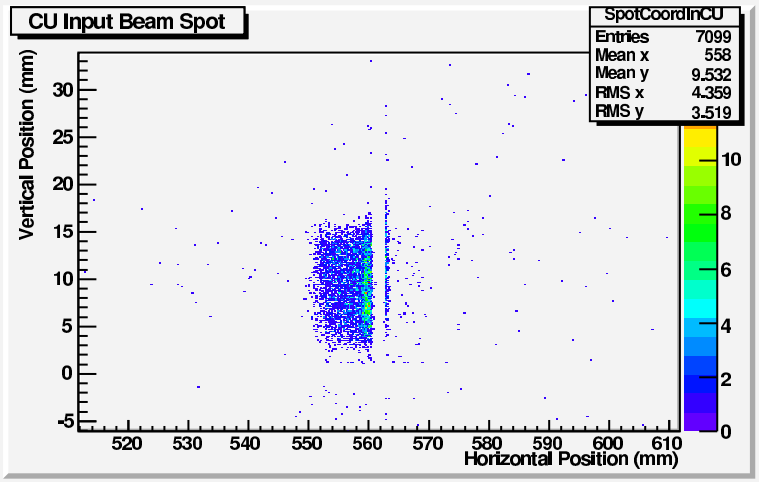

CU Input Beam Spot
SpotAngleInCU
Entries 9640
Mean x 0.005832
Mean y 0.004131
RMS x 0.001303
RMS y 0.001521
Vertical Angle (rad)
Horizontal Angle (rad)

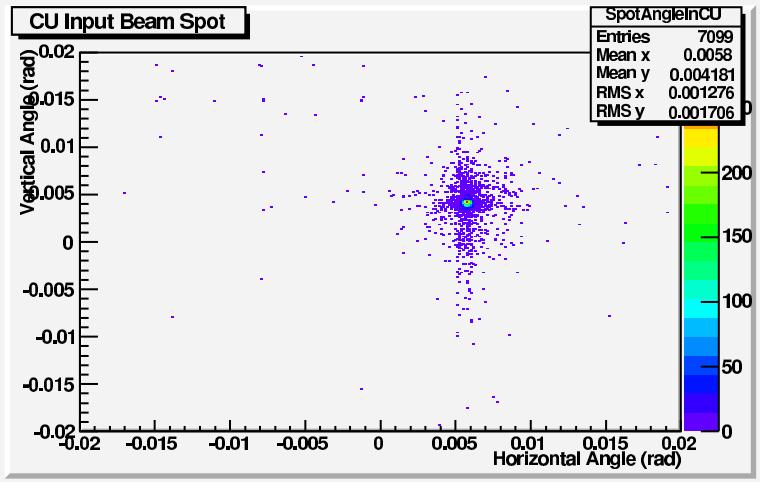

CU Input Horizontal coordinate
HorCoordInCU
Entries 7099
Mean 558.2
RMS 7.491
Position (mm)

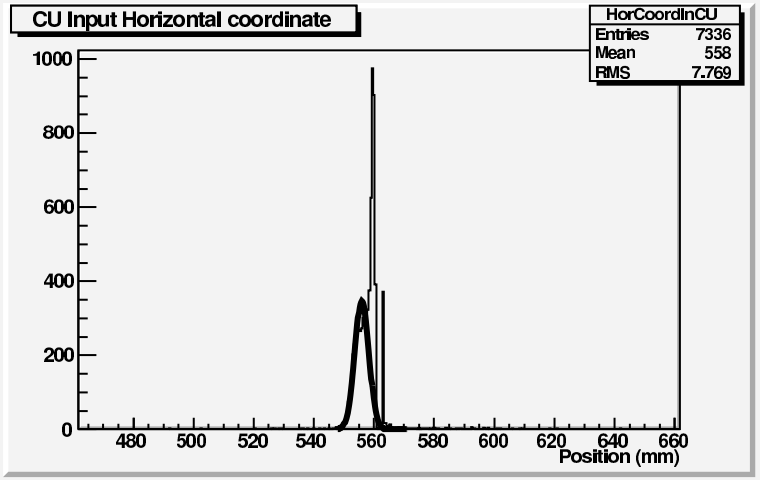

CU Input vertical coordinate
VertCoordInCU
Entries 7099
Mean 9.408
RMS 5.112
Position (mm)

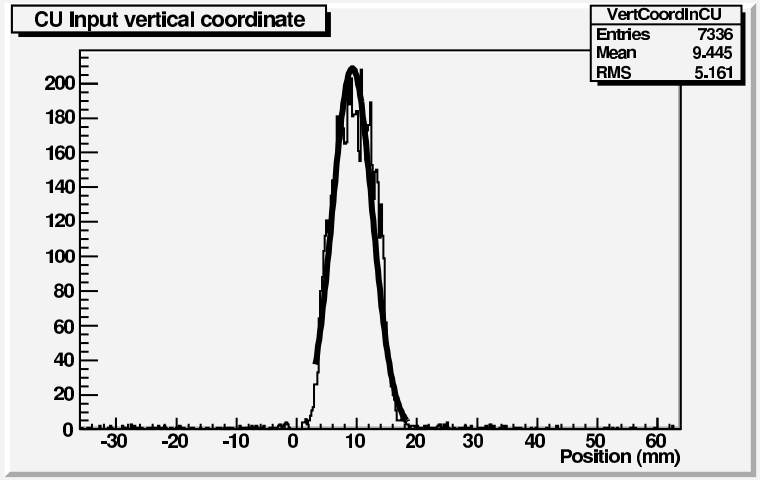

CU Input horizontal angle
HorAngleInCU
Entries 7099
Mean 0.004138
RMS 0.001887
Angle (rad)

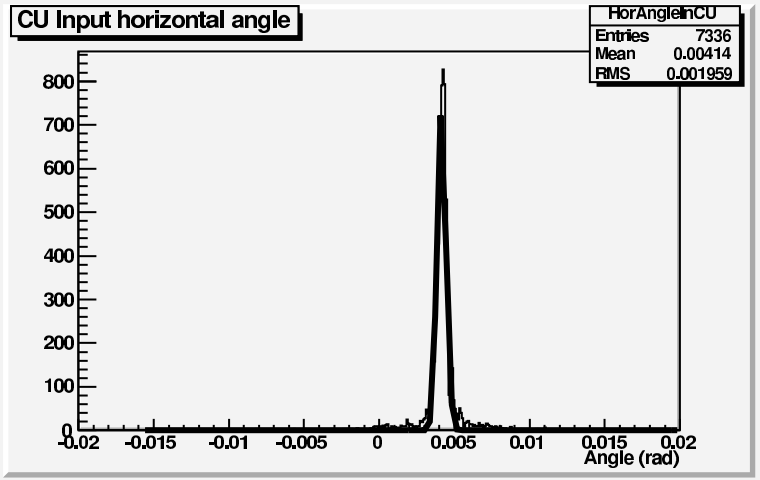

CU Input vertical angle
VertAngleInCU
Entries 7099
Mean 0.005797
RMS 0.001317
Angle (rad)

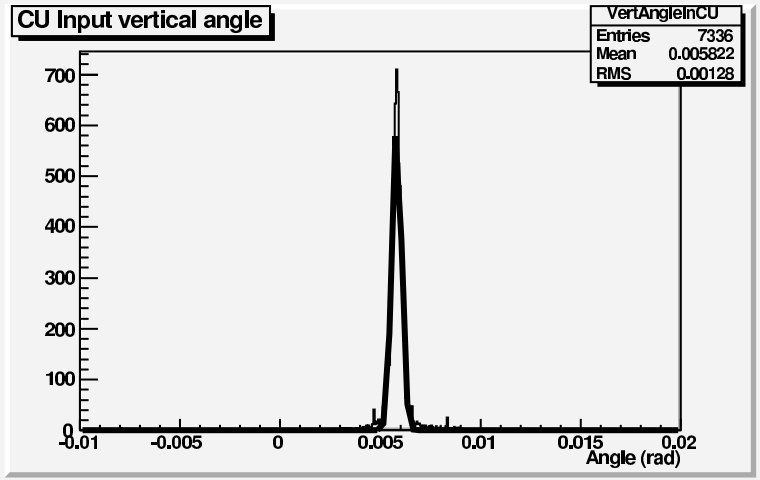

CU Input Beam Spot
SpotCoordInCU
Entries 7099
Mean x 558
Mean y 9.532
RMS x 4.359
RMS y 3.519
Vertical Position (mm)
Horizontal Position (mm)

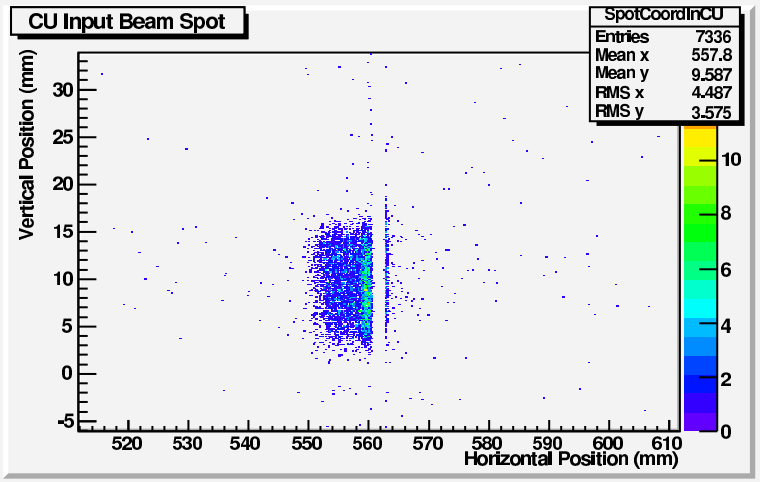

CU Input Beam Spot
SpotAngleInCU
Entries 7099
Mean x 0.0058
Mean y 0.004181
RMS x 0.001276
RMS y 0.001706
Vertical Angle (rad)
Horizontal Angle (rad)

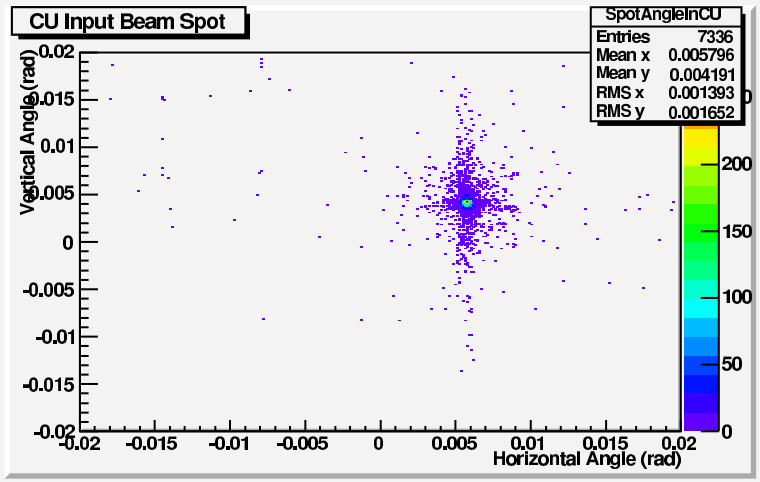

CU Input Horizontal coordinate
HorCoordInCU
Entries 7336
Mean 558
RMS 7.769
Position (mm)

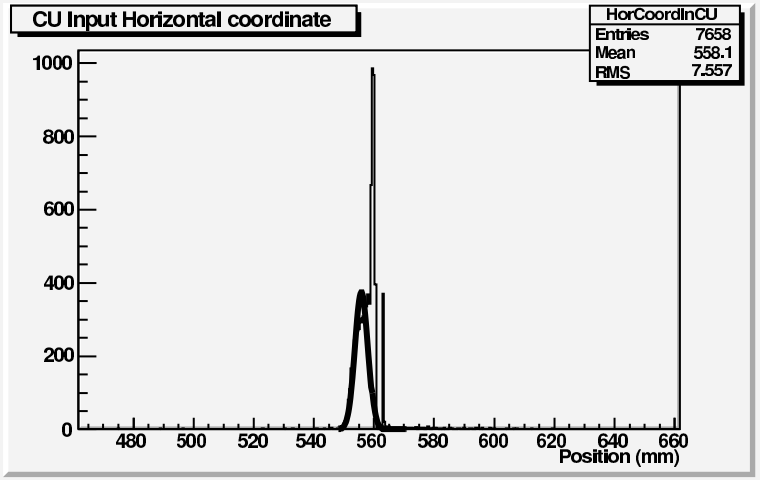

CU Input vertical coordinate
VertCoordInCU
Entries 7336
Mean 9.445
RMS 5.161
Position (mm)

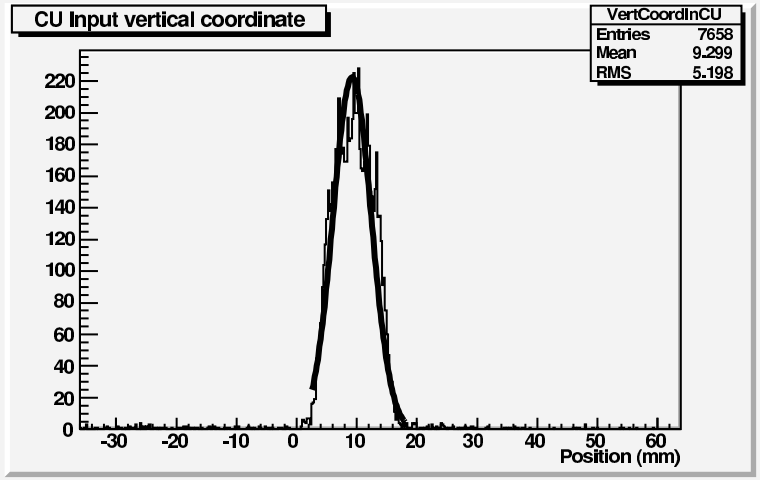

CU Input horizontal angle
HorAngleInCU
Entries 7336
Mean 0.00414
RMS 0.001959
Angle (rad)

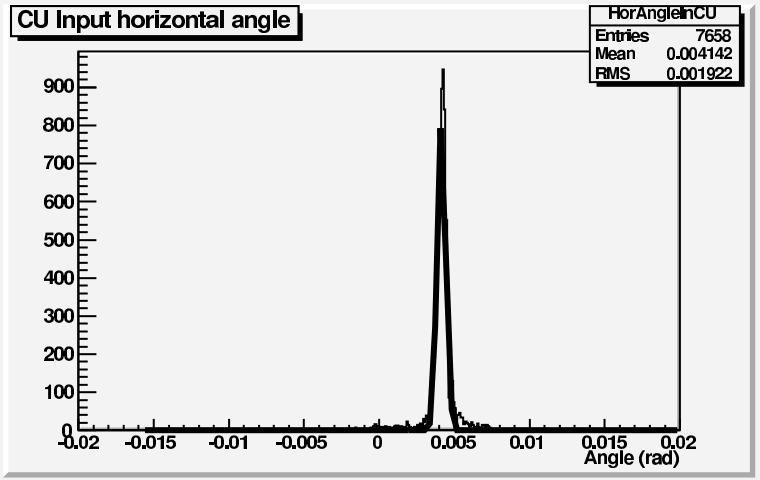

CU Input vertical angle
VertAngleInCU
Entries 7336
Mean 0.005822
RMS 0.00128
Angle (rad)

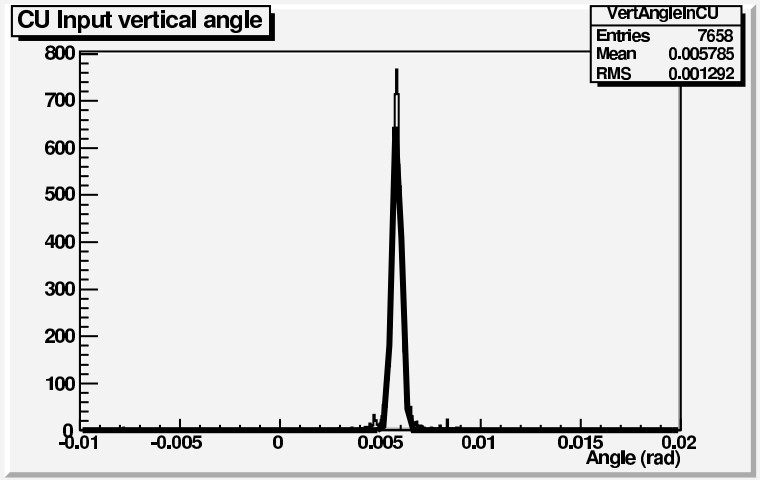

CU Input Beam Spot
SpotCoordInCU
Entries 7336
Mean x 557.8
Mean y 9.587
RMS x 4.487
RMS y 3.575
Vertical Position (mm)
Horizontal Position (mm)

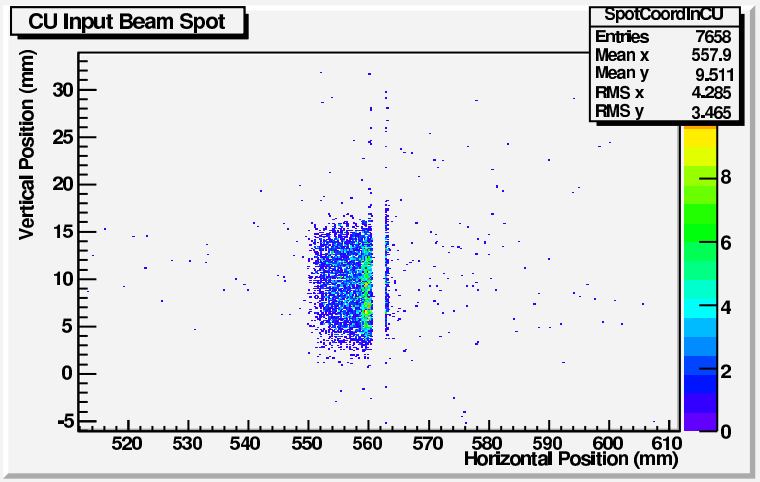

CU Input Beam Spot
SpotAngleInCU
Entries 7336
Mean x 0.005796
Mean y 0.004191
RMS x 0.001393
RMS y 0.001652
Vertical Angle (rad)
Horizontal Angle (rad)

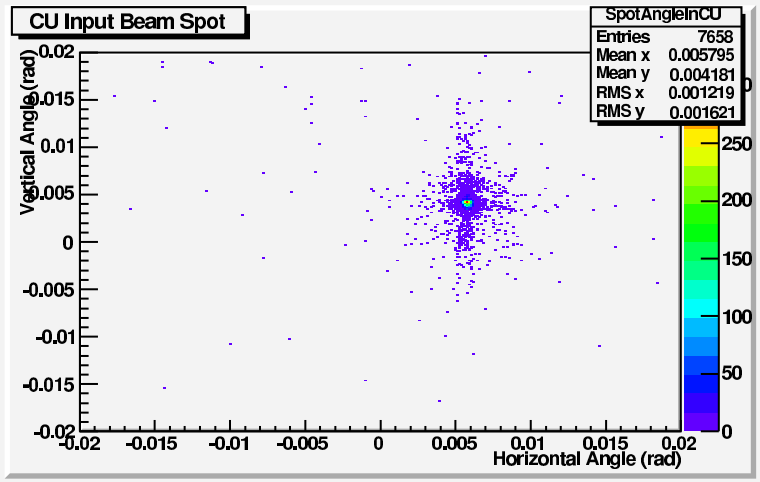

CU Input Horizontal coordinate
HorCoordInCU
Entries 7658
Mean 558.1
RMS 7.557
Position (mm)

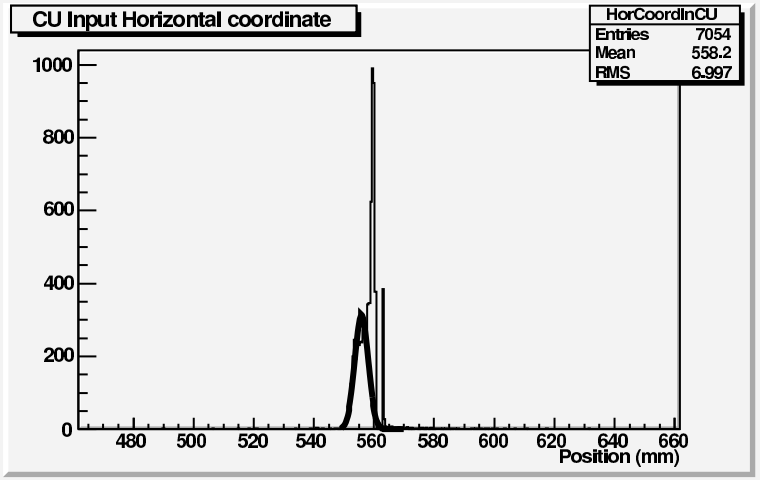

CU Input vertical coordinate
VertCoordInCU
Entries 7658
Mean 9.299
RMS 5.198
Position (mm)

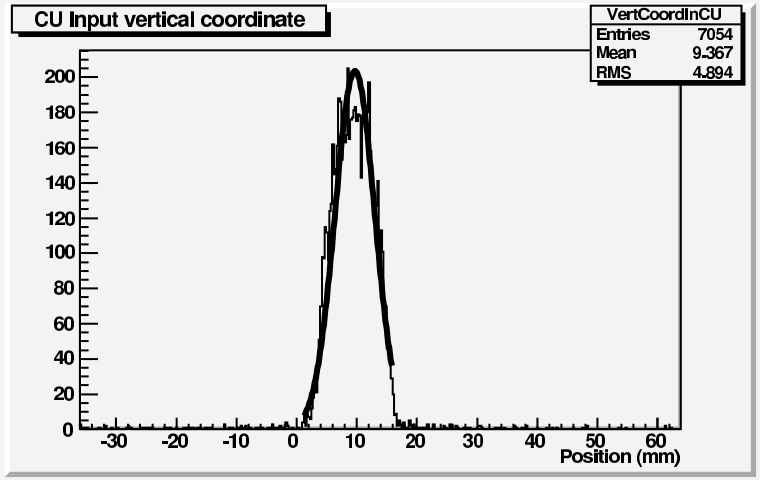

CU Input horizontal angle
HorAngleInCU
Entries 7658
Mean 0.004142
RMS 0.001922
Angle (rad)

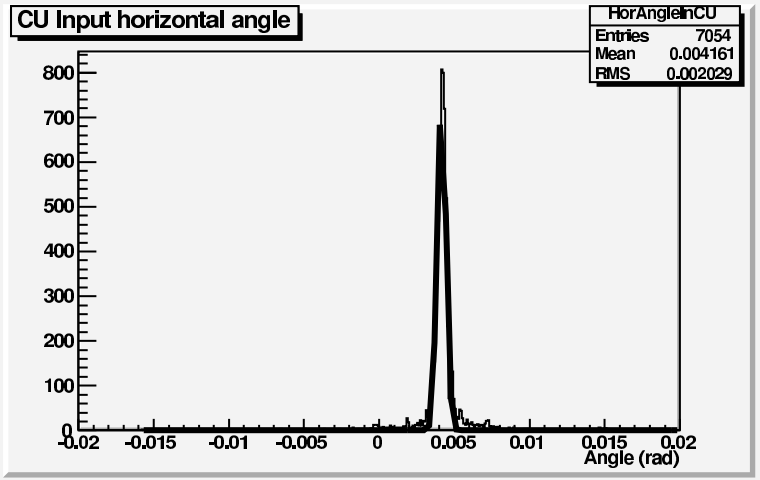

CU Input vertical angle
VertAngleInCU
Entries 7658
Mean 0.005785
RMS 0.001292
Angle (rad)

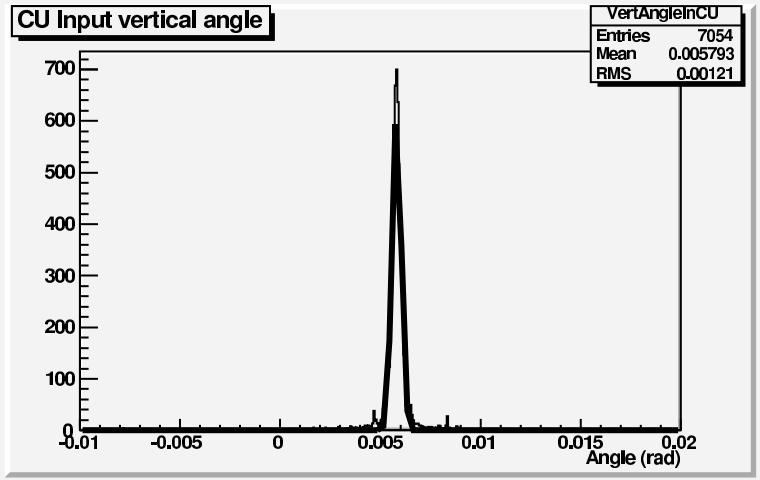

CU Input Beam Spot
SpotCoordInCU
Entries 7658
Mean x 557.9
Mean y 9.511
RMS x 4.285
RMS y 3.465
Vertical Position (mm)
Horizontal Position (mm)

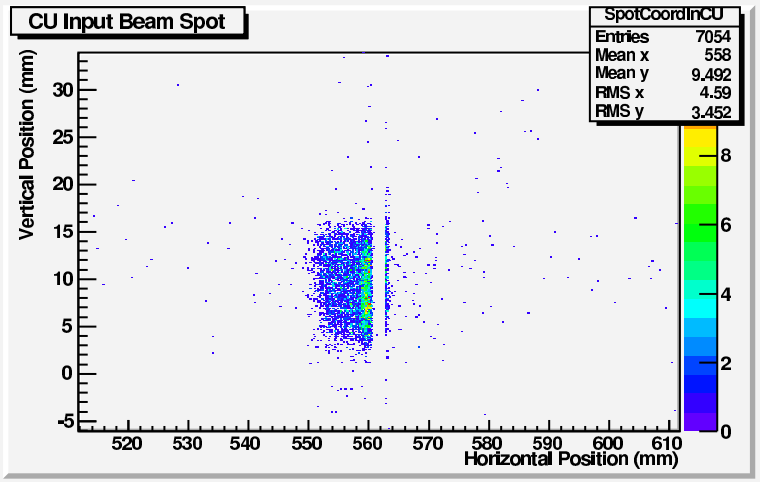

CU Input Beam Spot
SpotAngleInCU
Entries 7658
Mean x 0.005795
Mean y 0.004181
RMS x 0.001219
RMS y 0.001621
Vertical Angle (rad)
Horizontal Angle (rad)

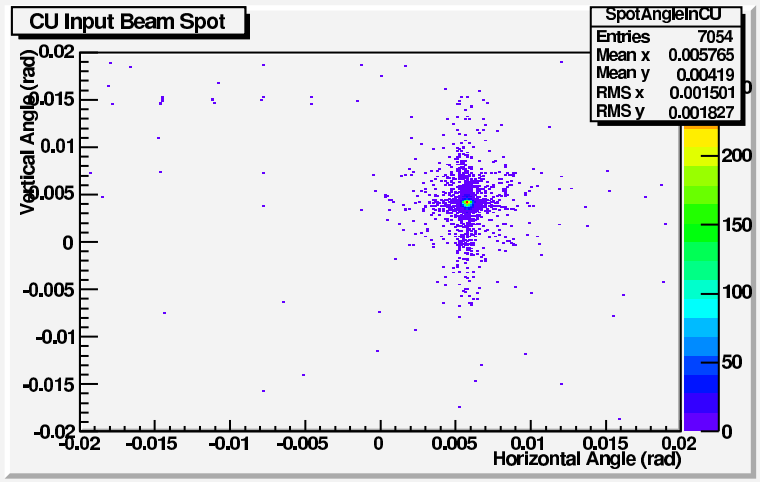

CU Input Horizontal coordinate
HorCoordInCU
Entries 7054
Mean 558.2
RMS 6.997
Position (mm)

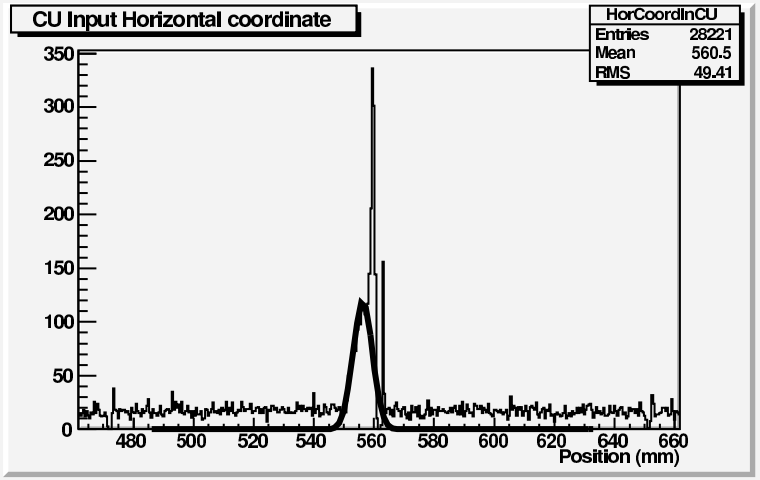

CU Input vertical coordinate
VertCoordInCU
Entries 7054
Mean 9.367
RMS 4.894
Position (mm)

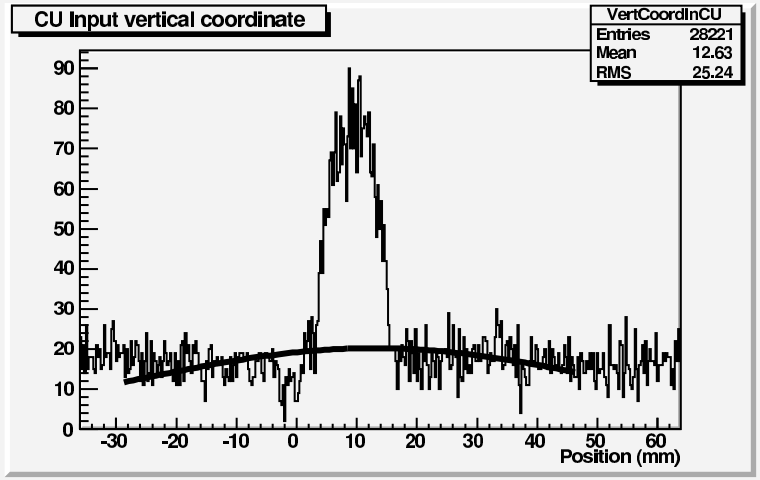

CU Input horizontal angle
HorAngleInCU
Entries 7054
Mean 0.004161
RMS 0.002029
Angle (rad)

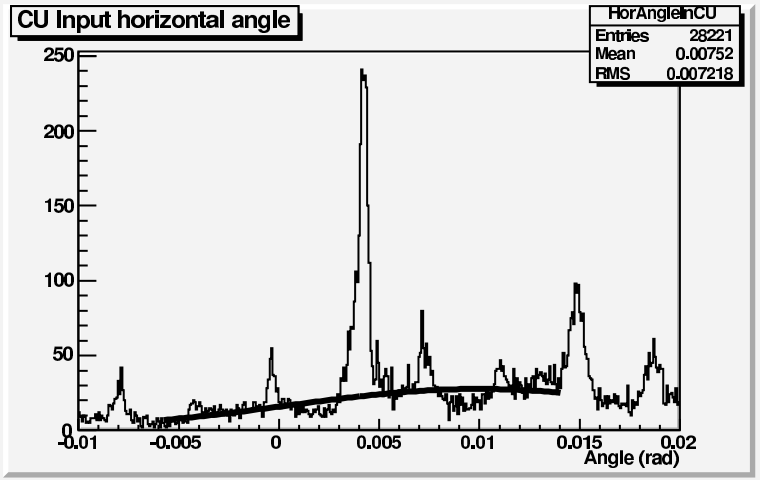

CU Input vertical angle
VertAngleInCU
Entries 7054
Mean 0.005793
RMS 0.00121
Angle (rad)

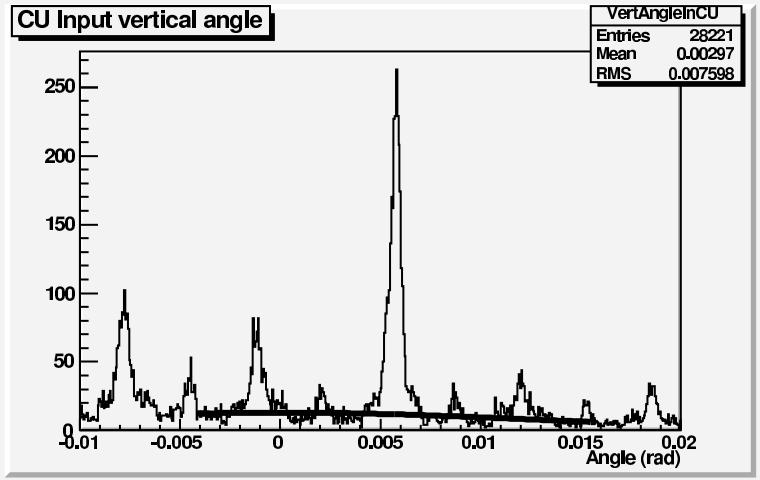

CU Input Beam Spot
SpotCoordInCU
Entries 7054
Mean x 558
Mean y 9.492
RMS x 4.59
RMS y 3.452
Vertical Position (mm)
Horizontal Position (mm)

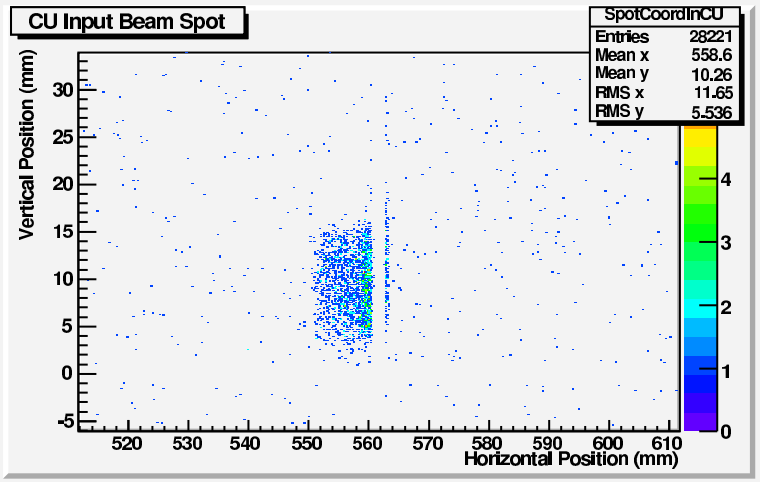

CU Input Beam Spot
SpotAngleInCU
Entries 7054
Mean x 0.005765
Mean y 0.00419
RMS x 0.001501
RMS y 0.001827
Vertical Angle (rad)
Horizontal Angle (rad)

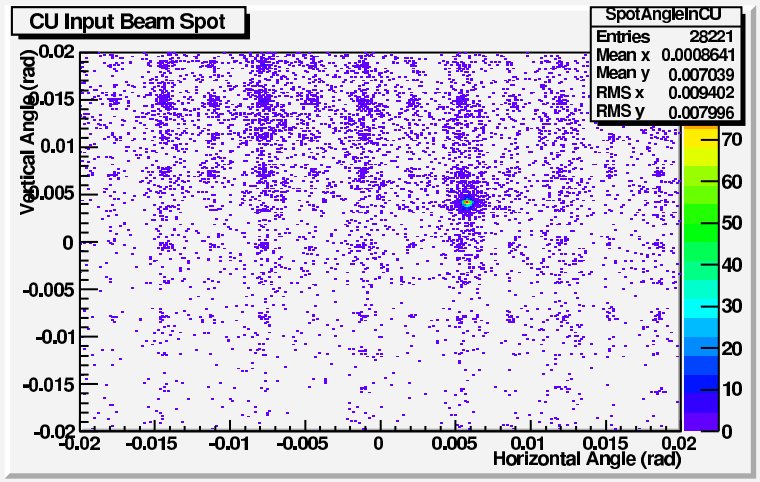

CU Input Horizontal coordinate
HorCoordInCU
Entries 28221
Mean 560.5
RMS 49.41
Position (mm)

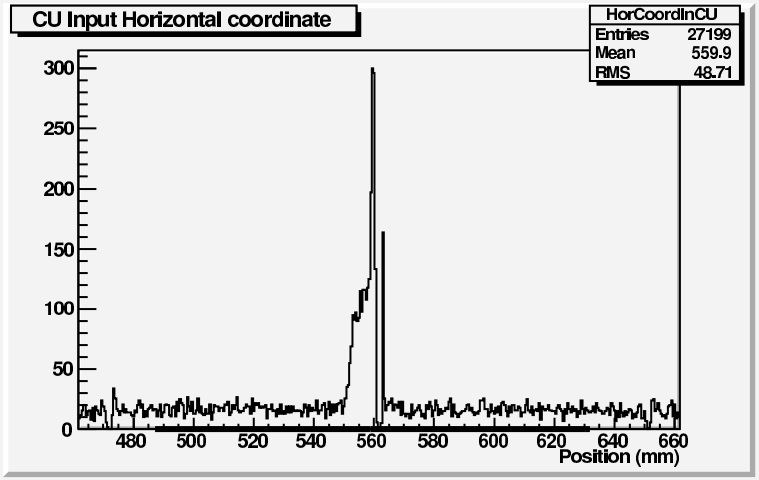

CU Input vertical coordinate
VertCoordInCU
Entries 28221
Mean 12.63
RMS 25.24
Position (mm)

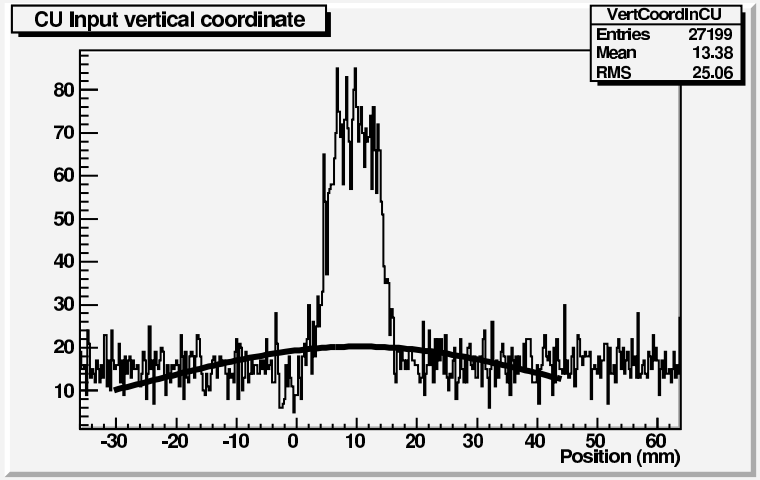

CU Input horizontal angle
HorAngleInCU
Entries 28221
Mean 0.00752
RMS 0.007218
Angle (rad)

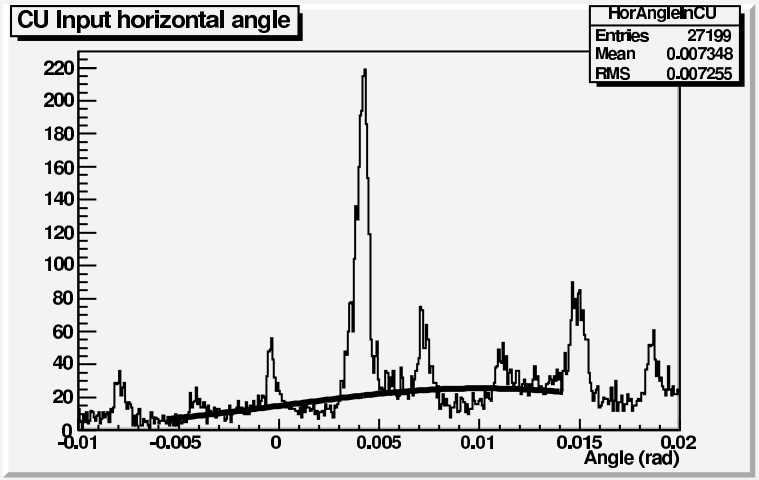

CU Input vertical angle
VertAngleInCU
Entries 28221
Mean 0.00297
RMS 0.007598
Angle (rad)

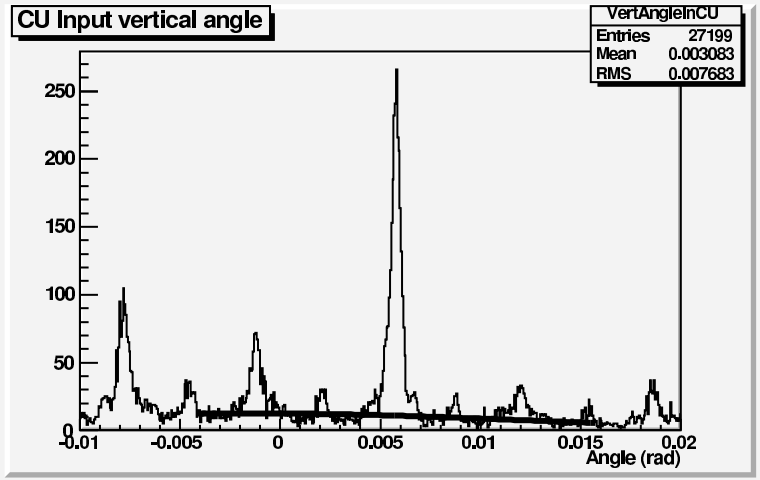

CU Input Beam Spot
SpotCoordInCU
Entries 28221
Mean x 558.6
Mean y 10.26
RMS x 11.65
RMS y 5.536
Vertical Position (mm)
Horizontal Position (mm)

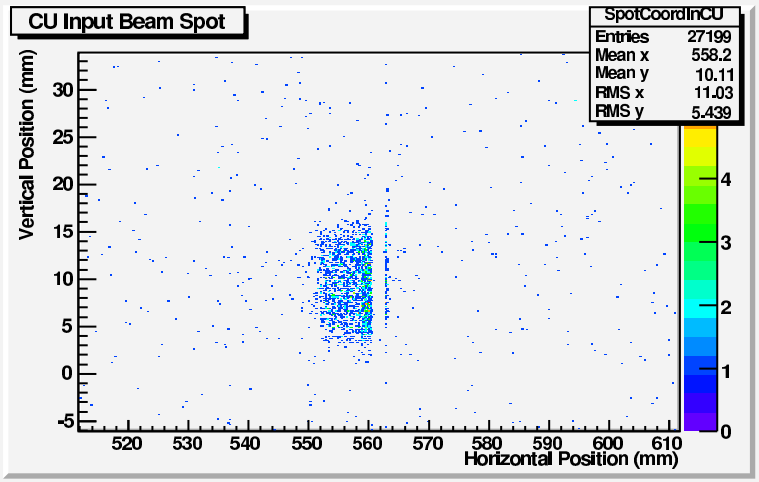

CU Input Beam Spot
SpotAngleInCU
Entries 28221
Mean x 0.0008641
Mean y 0.007039
RMS x 0.009402
RMS y 0.007996
Vertical Angle (rad)
Horizontal Angle (rad)

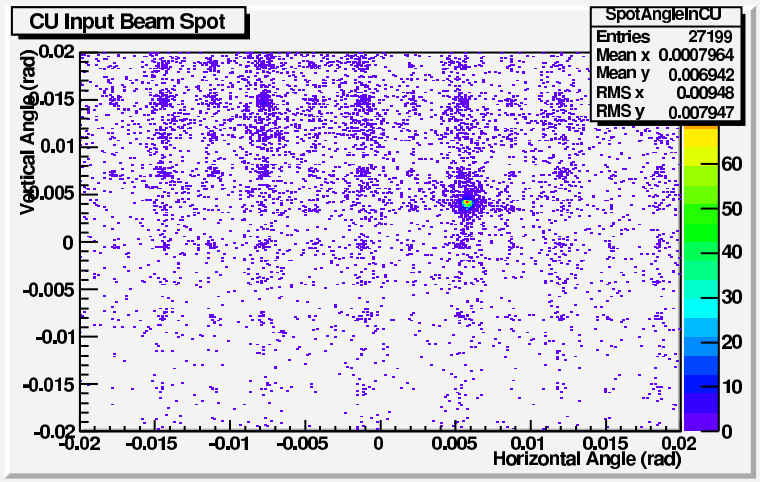

CU Input Horizontal coordinate
HorCoordInCU
Entries 27199
Mean 559.9
RMS 48.71
Position (mm)

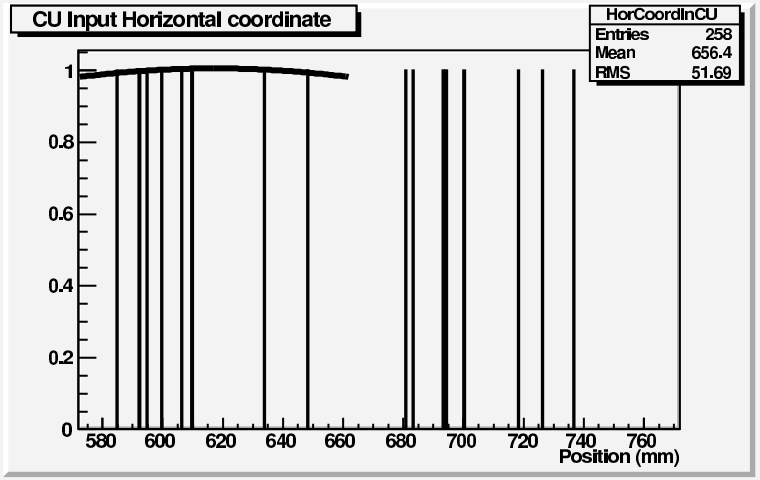

CU Input vertical coordinate
VertCoordInCU
Entries 27199
Mean 13.38
RMS 25.06
Position (mm)

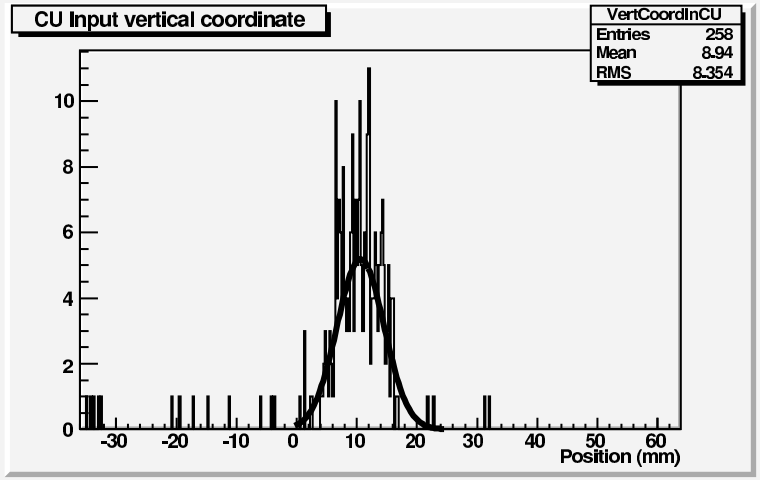

CU Input horizontal angle
HorAngleInCU
Entries 27199
Mean 0.007348
RMS 0.007255
Angle (rad)

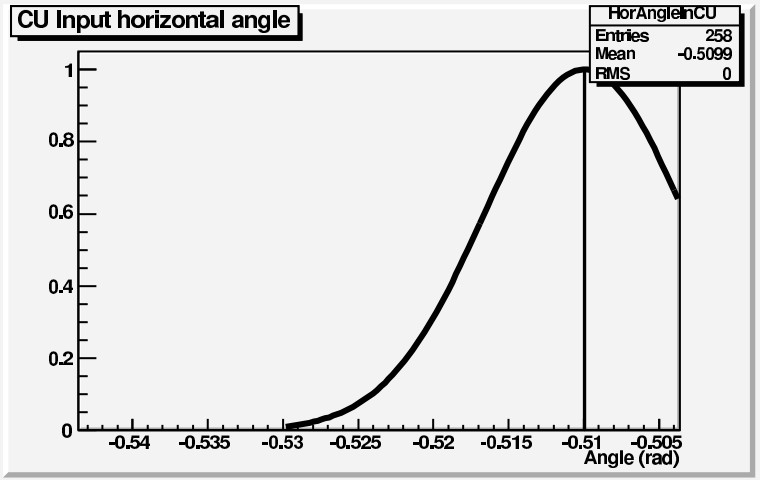

CU Input vertical angle
VertAngleInCU
Entries 27199
Mean 0.003083
RMS 0.007683
Angle (rad)

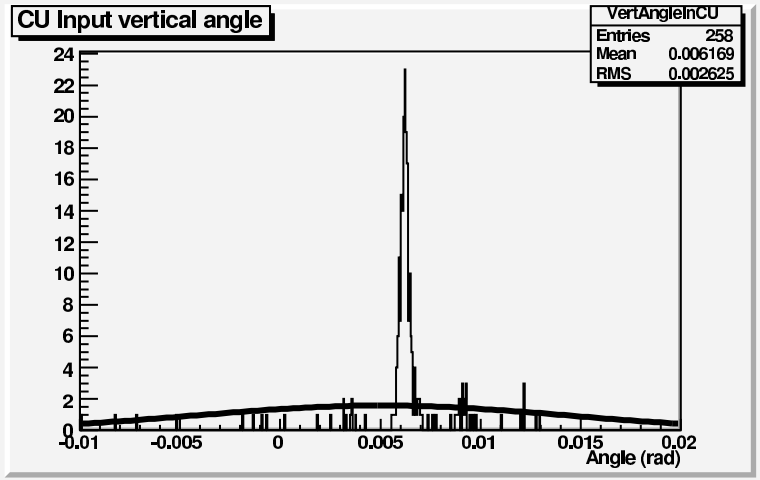

CU Input Beam Spot
SpotCoordInCU
Entries 27199
Mean x 558.2
Mean y 10.11
RMS x 11.03
RMS y 5.439
Vertical Position (mm)
Horizontal Position (mm)

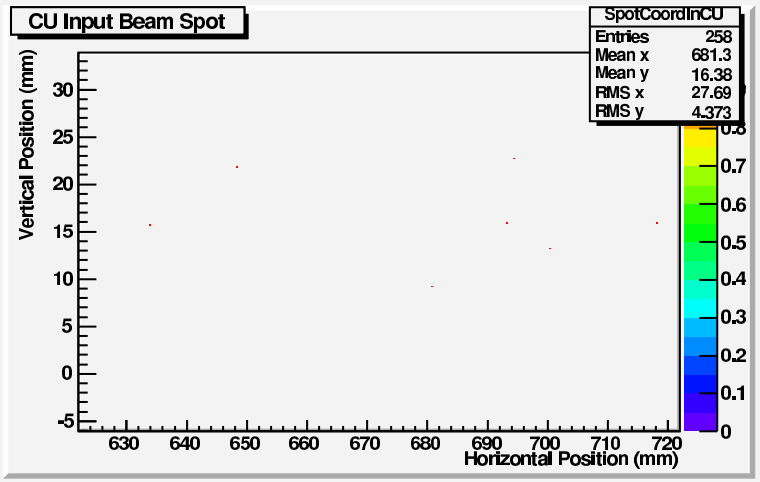

CU Input Beam Spot
SpotAngleInCU
Entries 27199
Mean x 0.0007964
Mean y 0.006942
RMS x 0.00948
RMS y 0.007947
Vertical Angle (rad)
Horizontal Angle (rad)

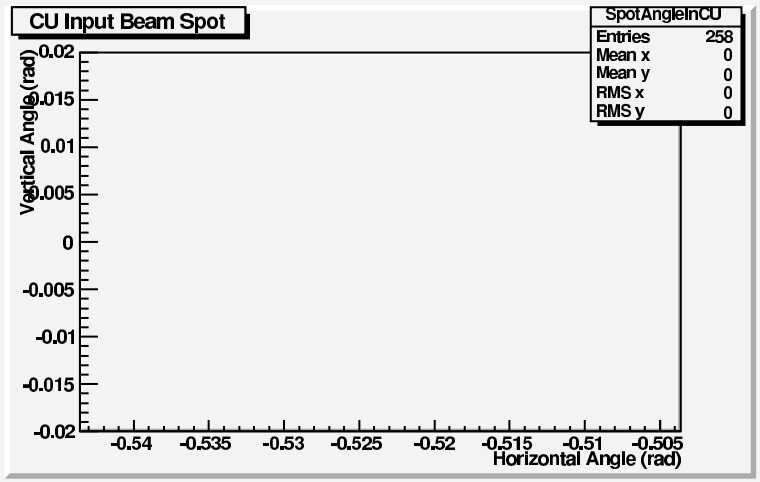

CU Input Horizontal coordinate
HorCoordInCU
Entries 258
Mean 656.4
RMS 51.69
Position (mm)

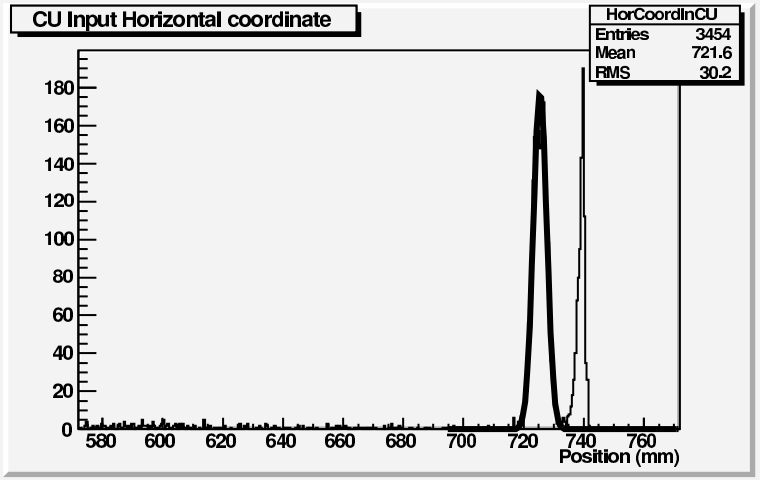

CU Input vertical coordinate
VertCoordInCU
Entries 258
Mean 8.94
RMS 8.354
Position (mm)

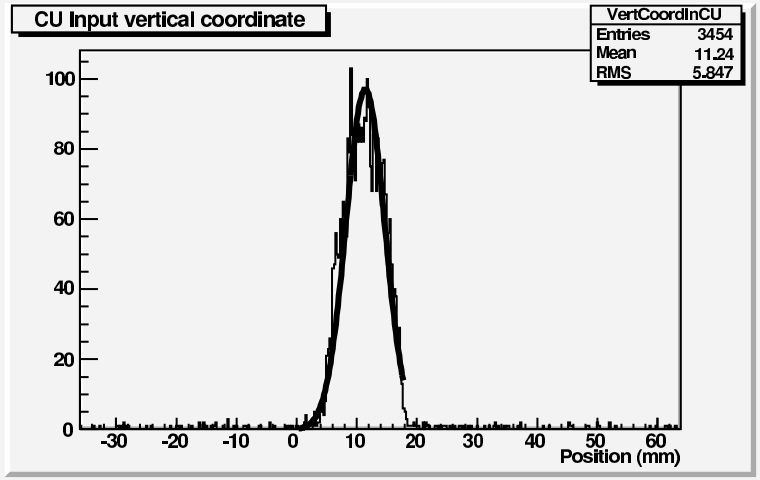

CU Input horizontal angle
HorAngleInCU
Entries 258
Mean -0.5099
RMS 0
Angle (rad)

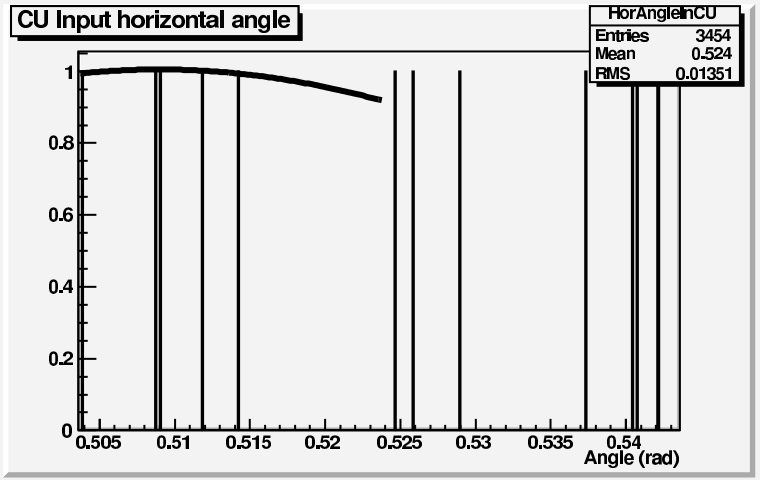

CU Input vertical angle
VertAngleInCU
Entries 258
Mean 0.006169
RMS 0.002625
Angle (rad)

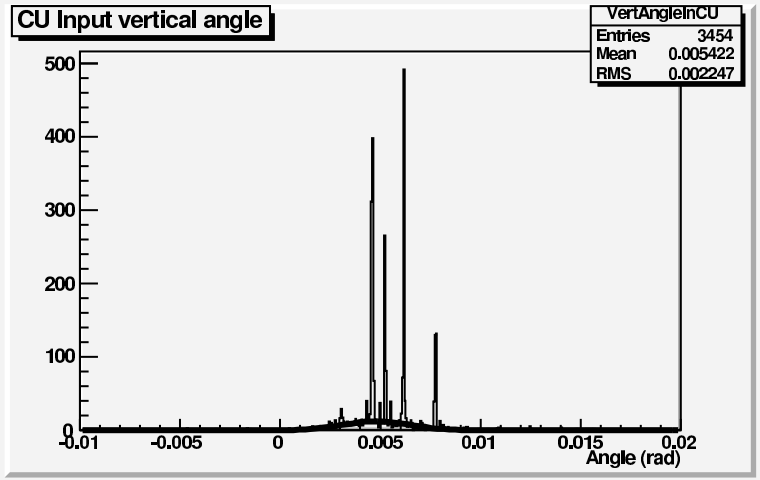

CU Input Beam Spot
SpotCoordInCU
Entries 258
Mean x 681.3
Mean y 16.38
RMS x 27.69
RMS y 4.373
Vertical Position (mm)
Horizontal Position (mm)

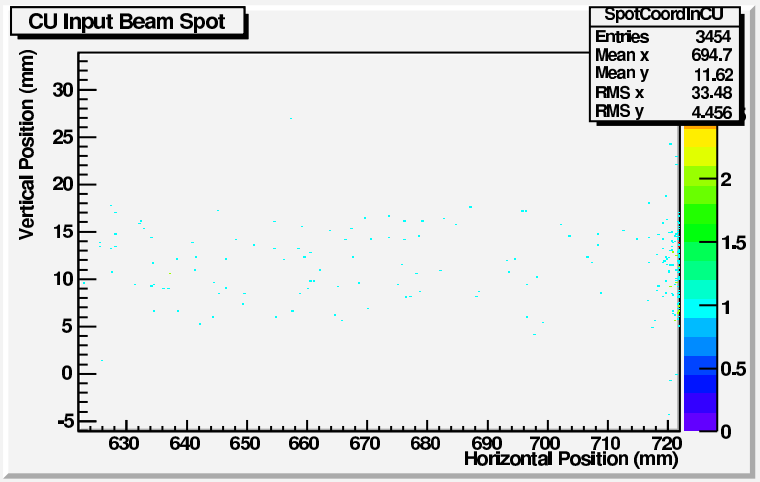

CU Input Beam Spot
SpotAngleInCU
Entries 258
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

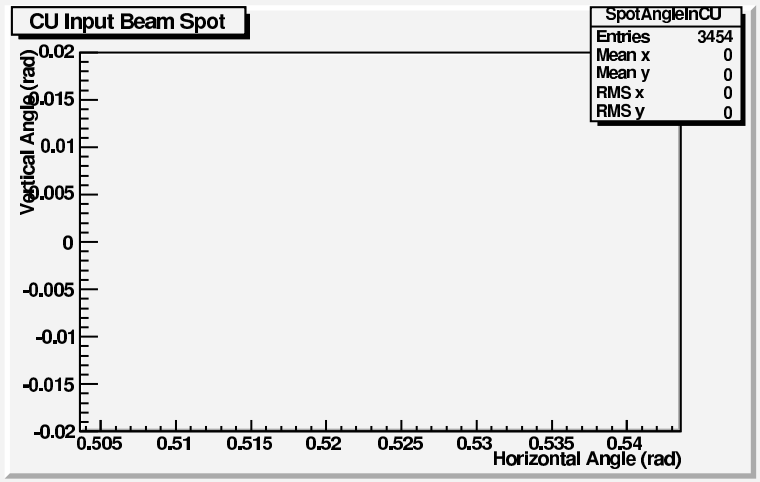

CU Input Horizontal coordinate
HorCoordInCU
Entries 3454
Mean 721.6
RMS 30.2
Position (mm)

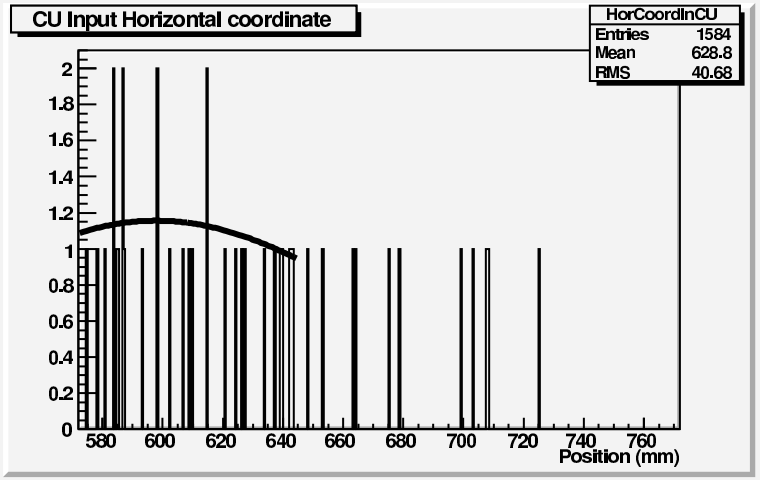

CU Input vertical coordinate
VertCoordInCU
Entries 3454
Mean 11.24
RMS 5.847
Position (mm)

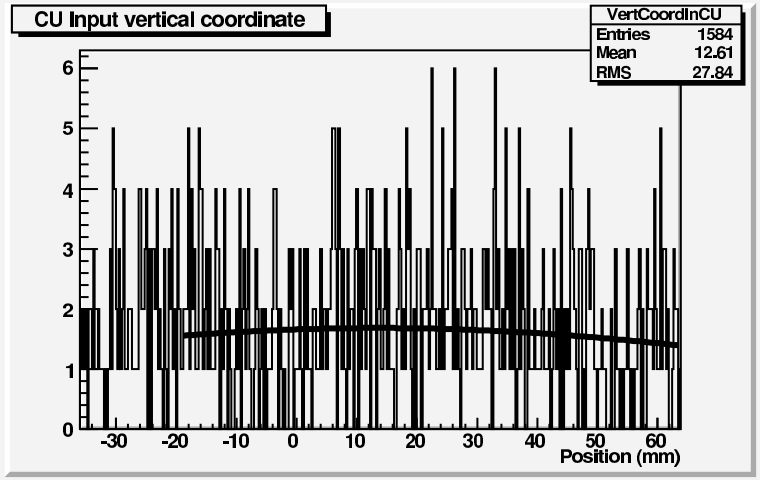

CU Input horizontal angle
HorAngleInCU
Entries 3454
Mean 0.524
RMS 0.01351
Angle (rad)

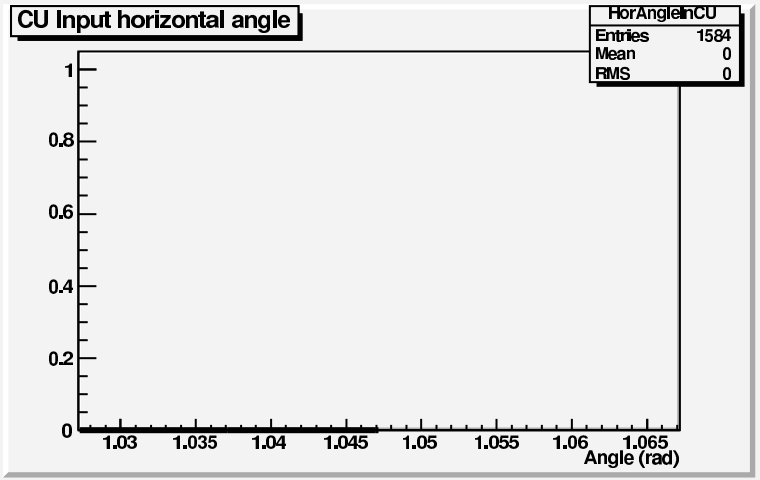

CU Input vertical angle
VertAngleInCU
Entries 3454
Mean 0.005422
RMS 0.002247
Angle (rad)

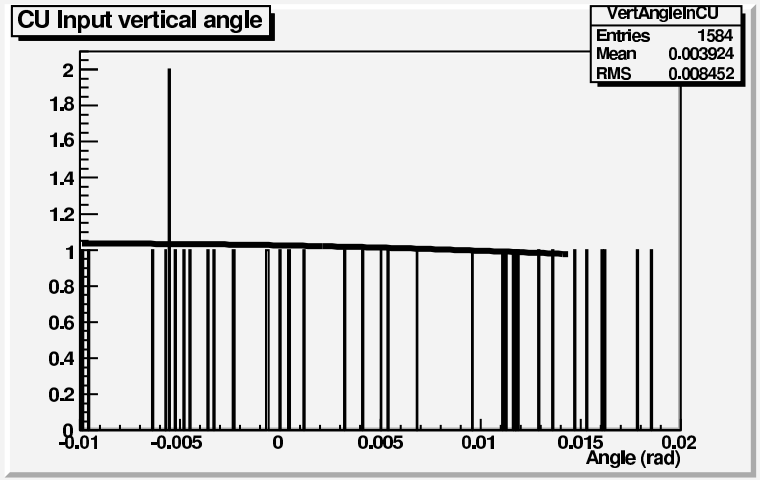

CU Input Beam Spot
SpotCoordInCU
Entries 3454
Mean x 694.7
Mean y 11.62
RMS x 33.48
RMS y 4.456
Vertical Position (mm)
Horizontal Position (mm)

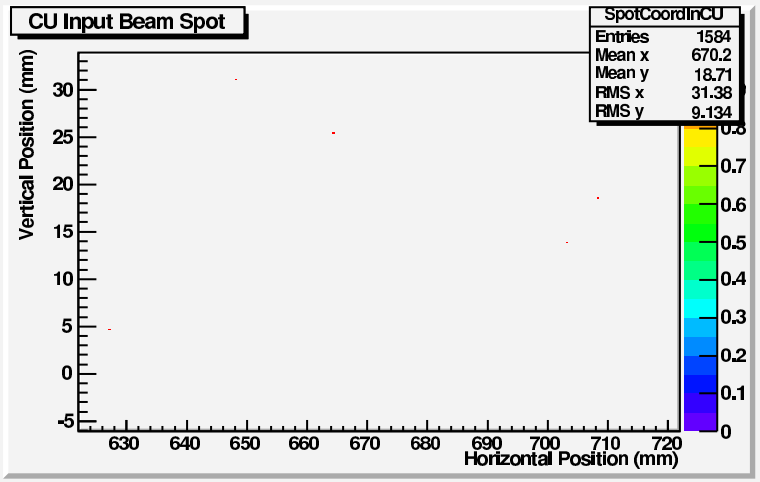

CU Input Beam Spot
SpotAngleInCU
Entries 3454
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

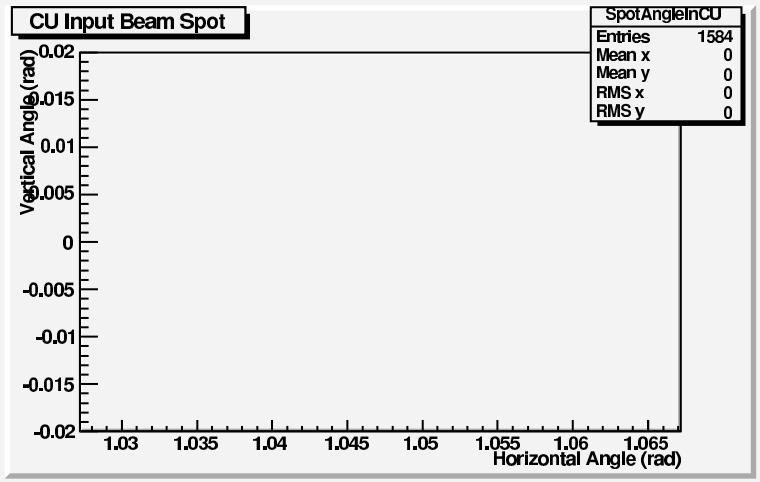

CU Input Horizontal coordinate
HorCoordInCU
Entries 1584
Mean 628.8
RMS 40.68
Position (mm)

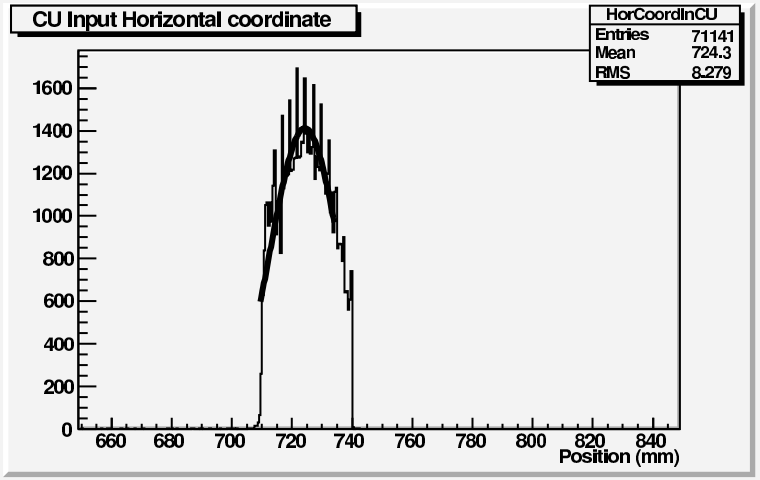

CU Input vertical coordinate
VertCoordInCU
Entries 1584
Mean 12.61
RMS 27.84
Position (mm)

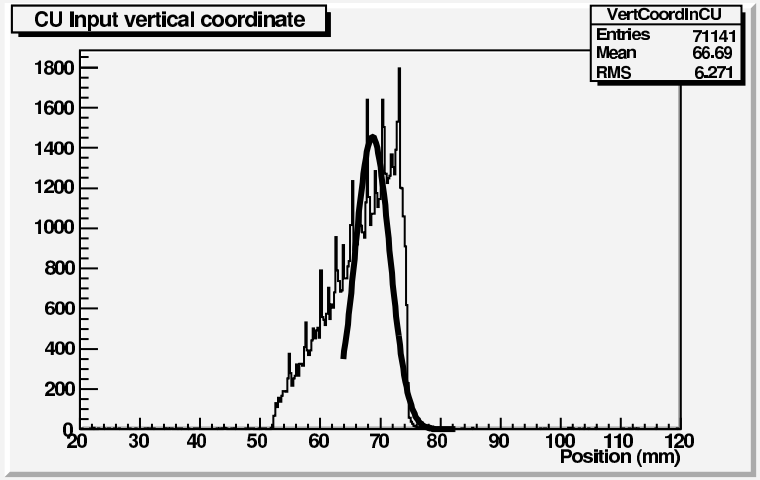

CU Input horizontal angle
HorAngleInCU
Entries 1584
Mean 0
RMS 0
Angle (rad)

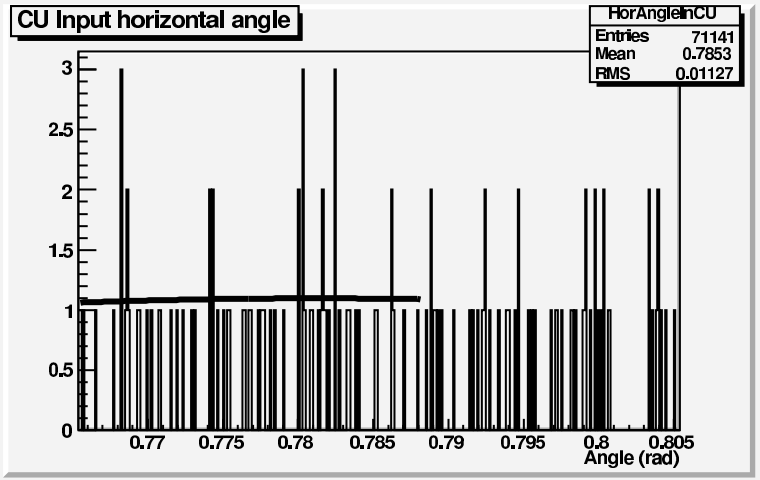

CU Input vertical angle
VertAngleInCU
Entries 1584
Mean 0.003924
RMS 0.008452
Angle (rad)

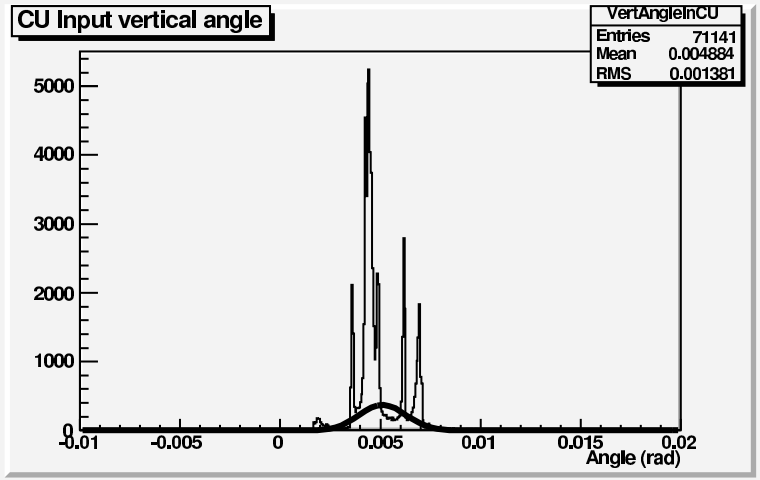

CU Input Beam Spot
SpotCoordInCU
Entries 1584
Mean x 670.2
Mean y 18.71
RMS x 31.38
RMS y 9.134
Vertical Position (mm)
Horizontal Position (mm)

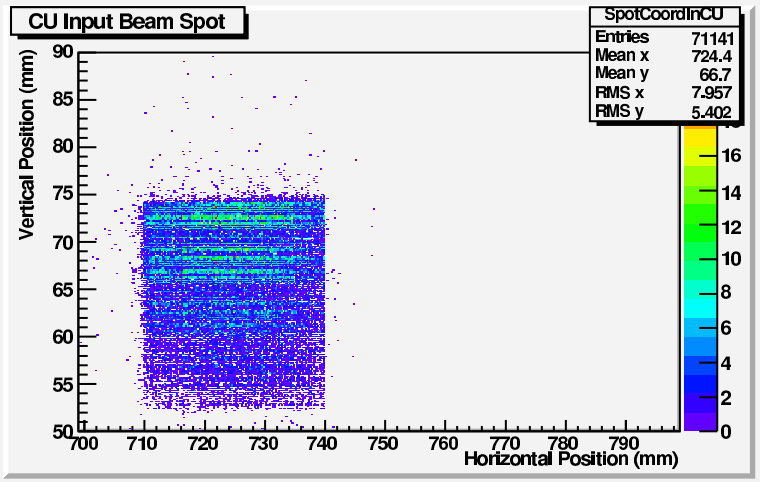

CU Input Beam Spot
SpotAngleInCU
Entries 1584
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

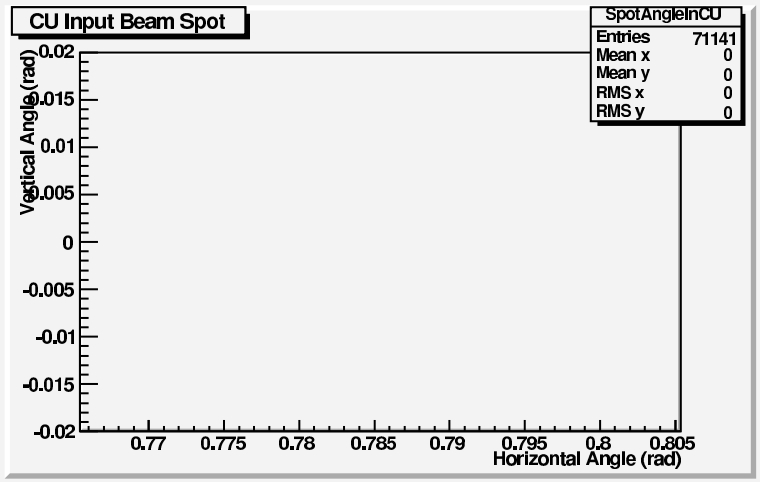

CU Input Horizontal coordinate
HorCoordInCU
Entries 71141
Mean 724.3
RMS 8.279
Position (mm)

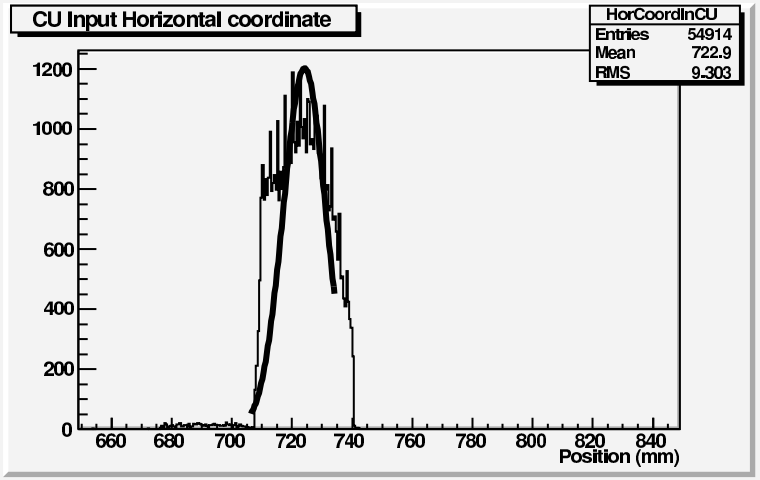

CU Input vertical coordinate
VertCoordInCU
Entries 71141
Mean 66.69
RMS 6.271
Position (mm)

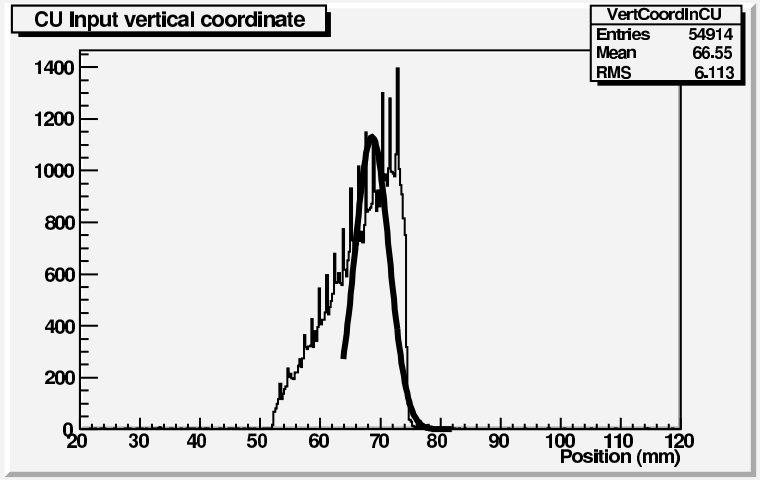

CU Input horizontal angle
HorAngleInCU
Entries 71141
Mean 0.7853
RMS 0.01127
Angle (rad)

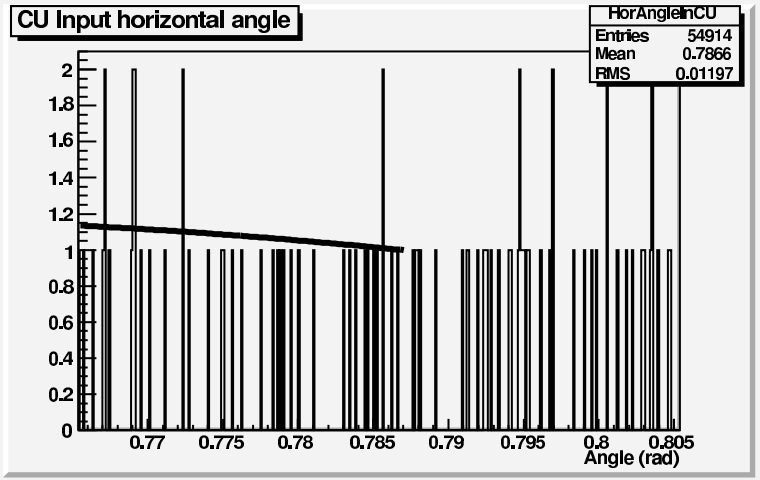

CU Input vertical angle
VertAngleInCU
Entries 71141
Mean 0.004884
RMS 0.001381
Angle (rad)

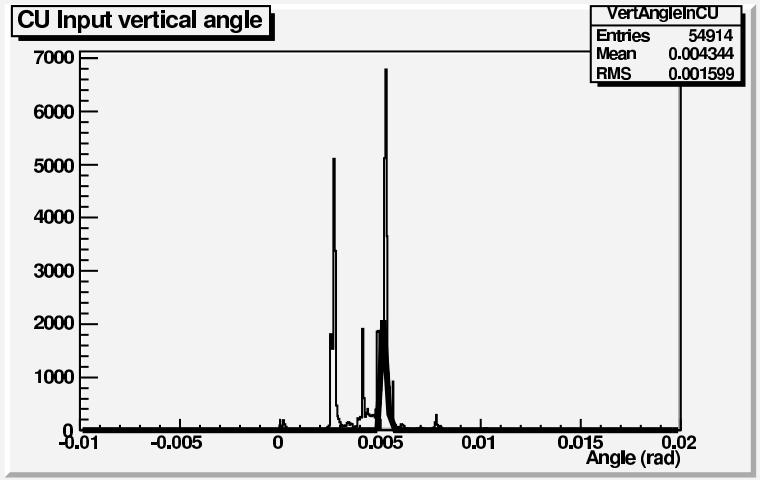

CU Input Beam Spot
SpotCoordInCU
Entries 71141
Mean x 724.4
Mean y 66.7
RMS x 7.957
RMS y 5.402
Vertical Position (mm)
Horizontal Position (mm)

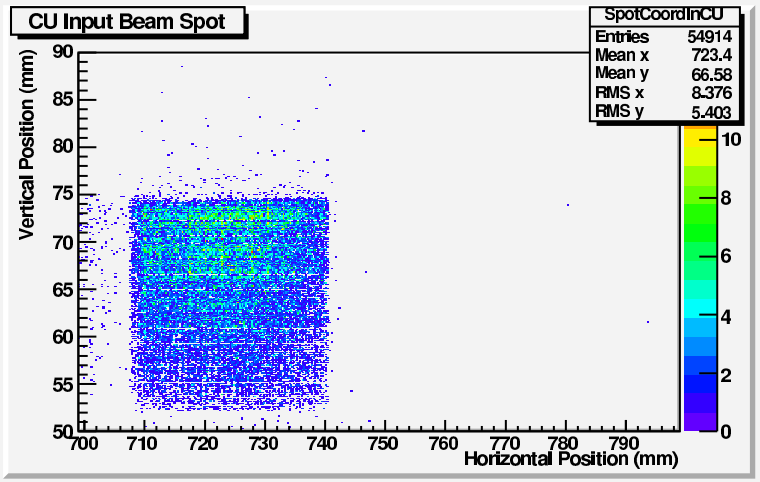

CU Input Beam Spot
SpotAngleInCU
Entries 71141
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

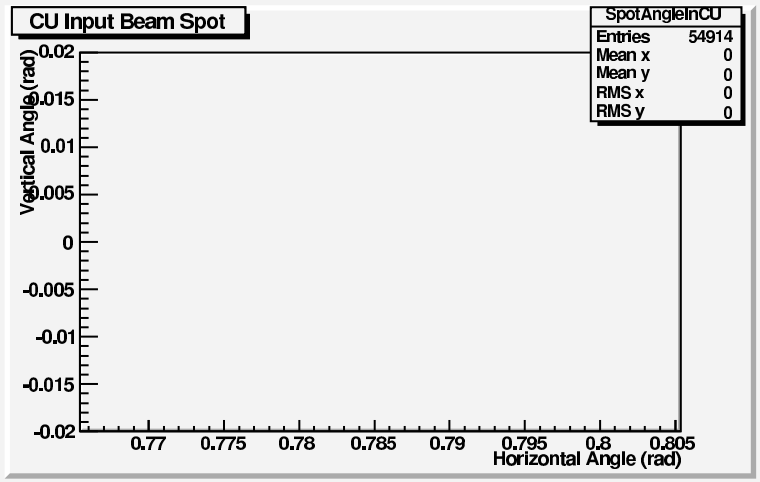

CU Input Horizontal coordinate
HorCoordInCU
Entries 54914
Mean 722.9
RMS 9.303
Position (mm)

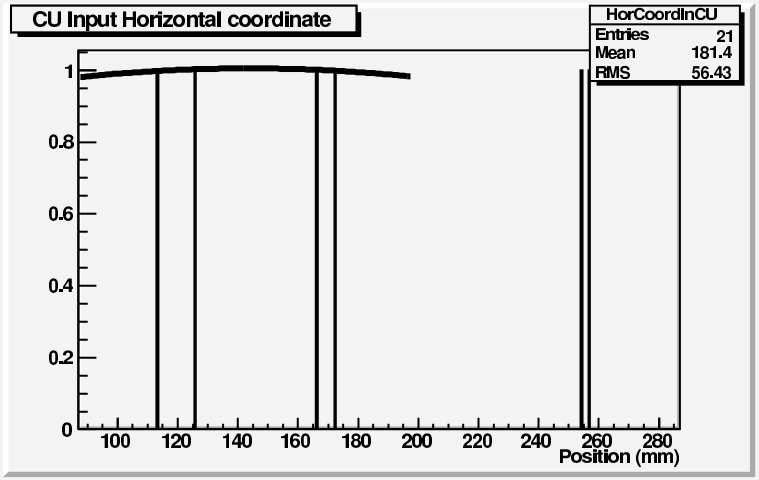

CU Input vertical coordinate
VertCoordInCU
Entries 54914
Mean 66.55
RMS 6.113
Position (mm)

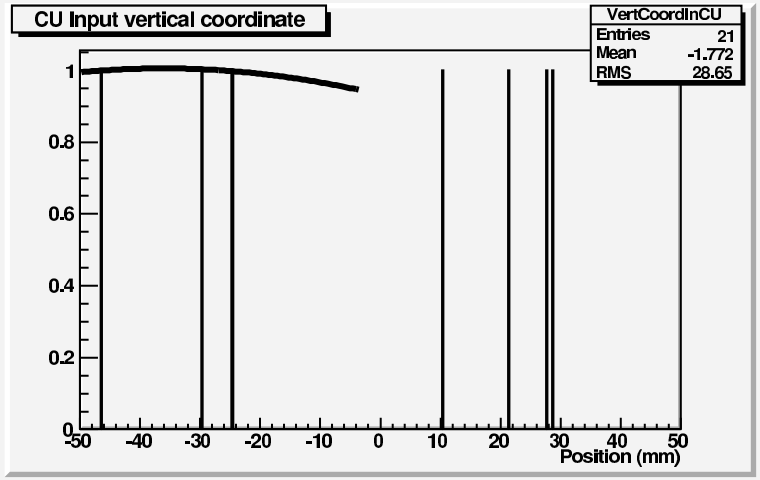

CU Input horizontal angle
HorAngleInCU
Entries 54914
Mean 0.7866
RMS 0.01197
Angle (rad)

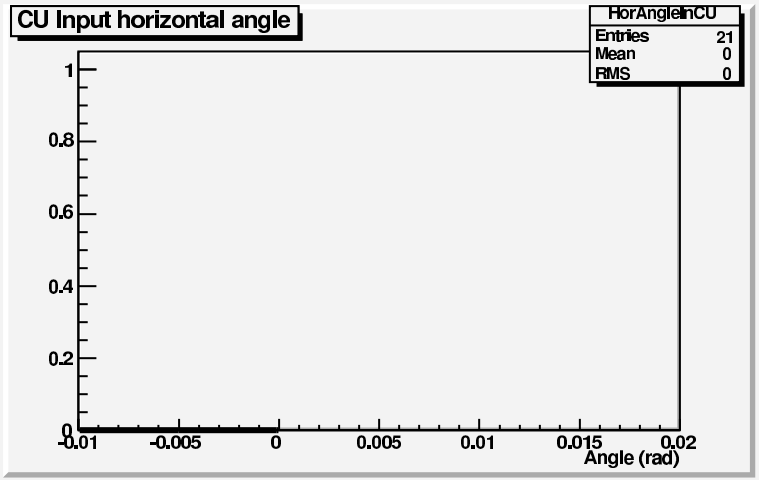

CU Input vertical angle
VertAngleInCU
Entries 54914
Mean 0.004344
RMS 0.001599
Angle (rad)

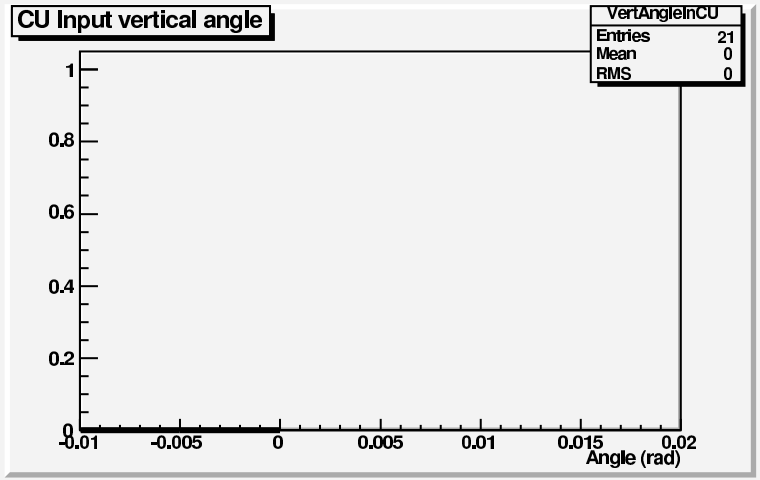

CU Input Beam Spot
SpotCoordInCU
Entries 54914
Mean x 723.4
Mean y 66.58
RMS x 8.376
RMS y 5.403
Vertical Position (mm)
Horizontal Position (mm)

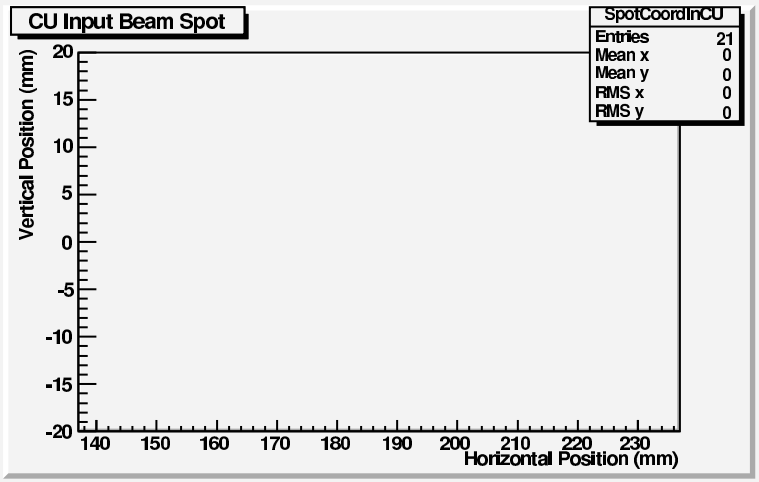

CU Input Beam Spot
SpotAngleInCU
Entries 54914
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

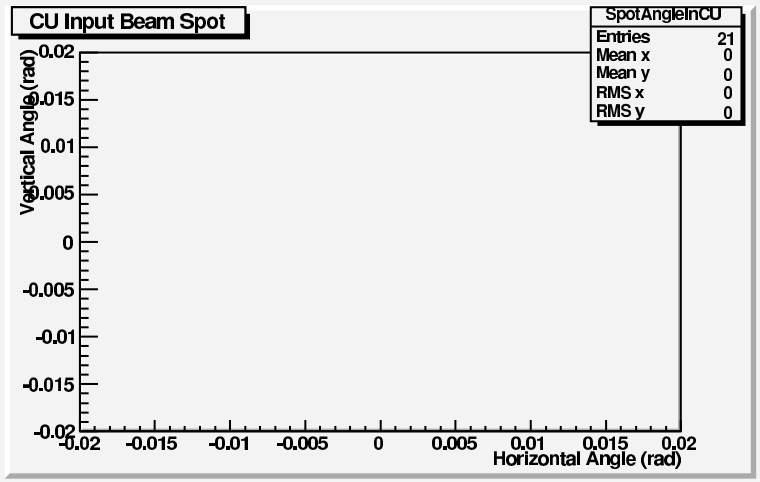

CU Input Horizontal coordinate
HorCoordInCU
Entries 21
Mean 181.4
RMS 56.43
Position (mm)

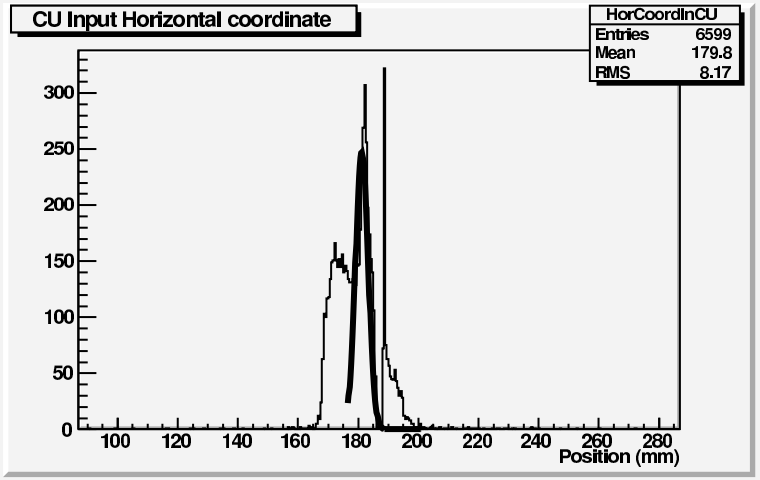

CU Input vertical coordinate
VertCoordInCU
Entries 21
Mean -1.772
RMS 28.65
Position (mm)

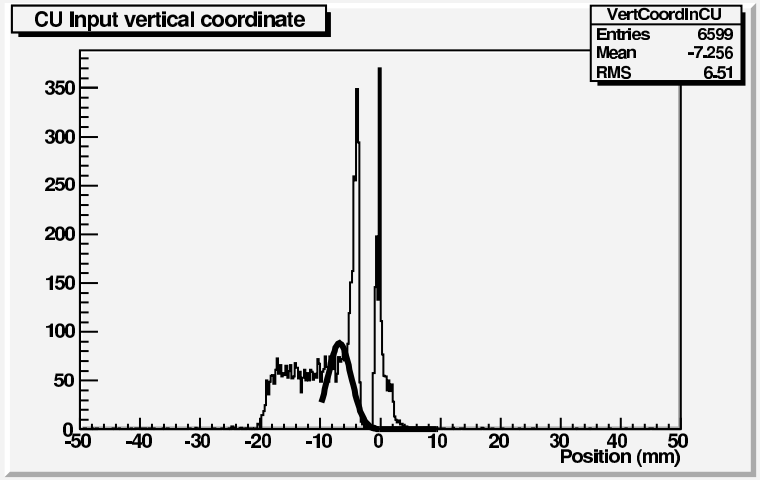

CU Input horizontal angle
HorAngleInCU
Entries 21
Mean 0
RMS 0
Angle (rad)

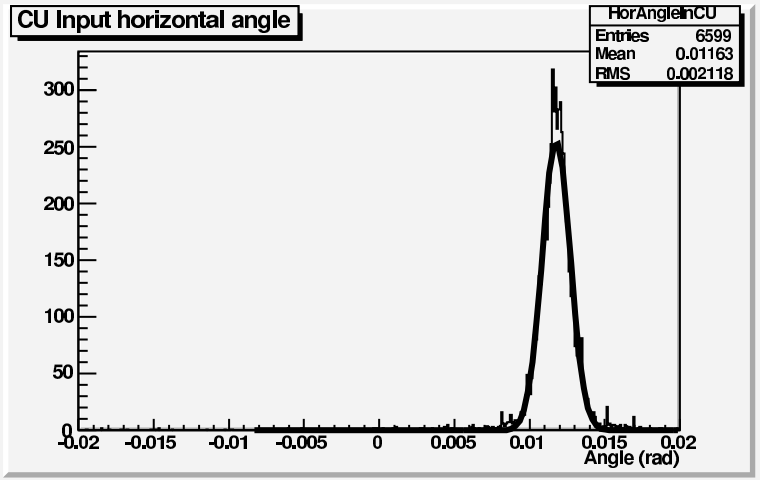

CU Input vertical angle
VertAngleInCU
Entries 21
Mean 0
RMS 0
Angle (rad)

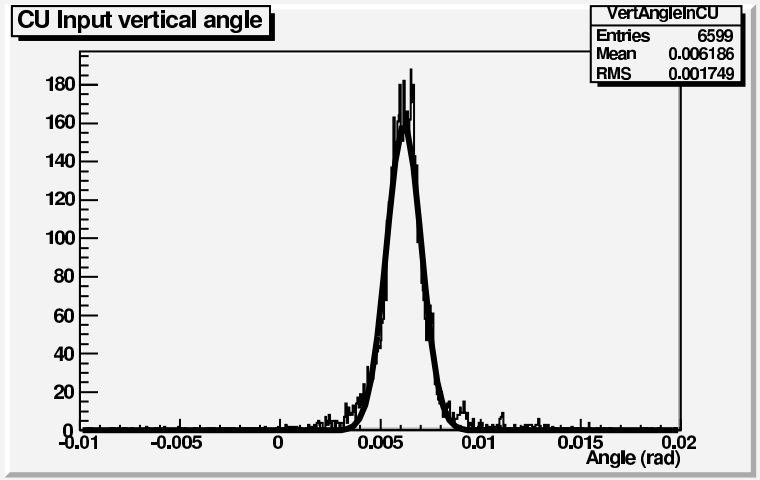

CU Input Beam Spot
SpotCoordInCU
Entries 21
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Position (mm)
Horizontal Position (mm)

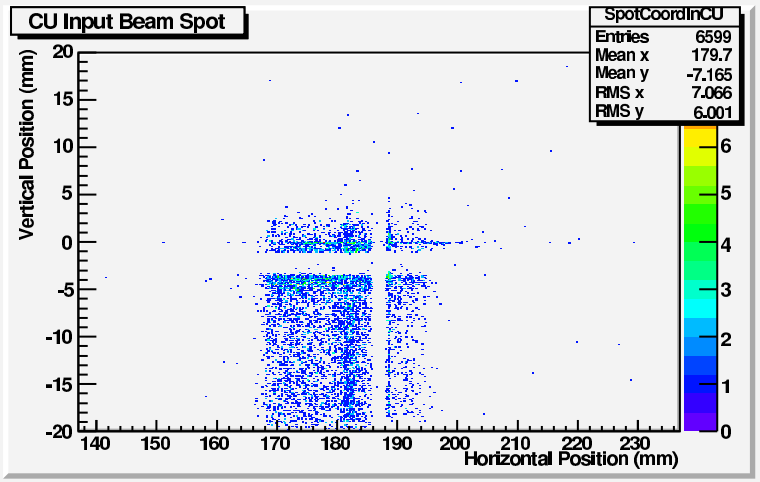

CU Input Beam Spot
SpotAngleInCU
Entries 21
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

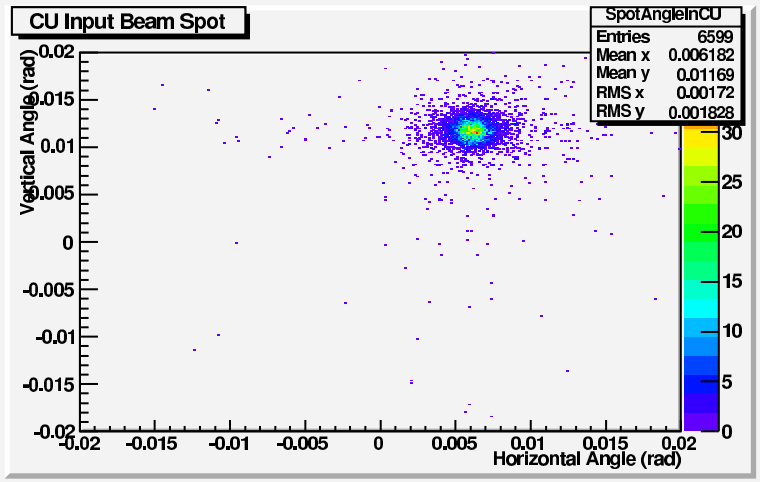

CU Input Horizontal coordinate
HorCoordInCU
Entries 6599
Mean 179.8
RMS 8.17
Position (mm)

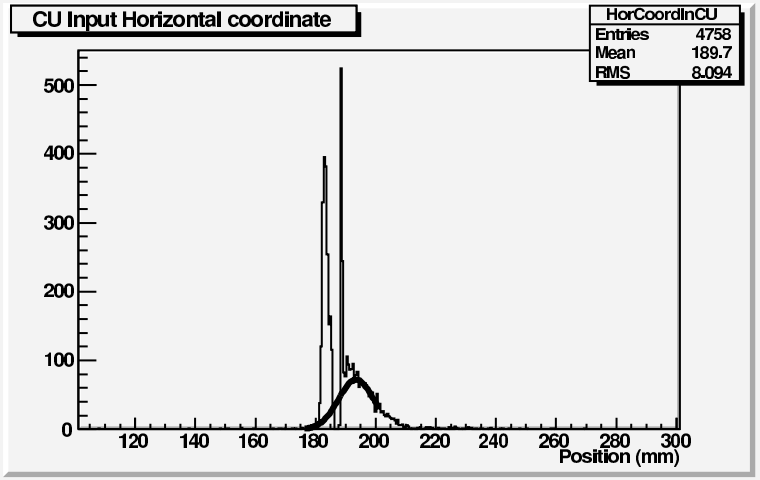

CU Input vertical coordinate
VertCoordInCU
Entries 6599
Mean -7.256
RMS 6.51
Position (mm)

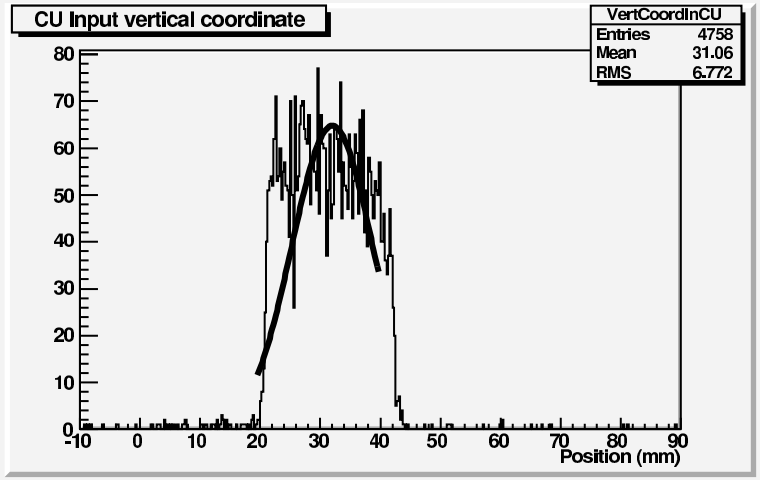

CU Input horizontal angle
HorAngleInCU
Entries 6599
Mean 0.01163
RMS 0.002118
Angle (rad)

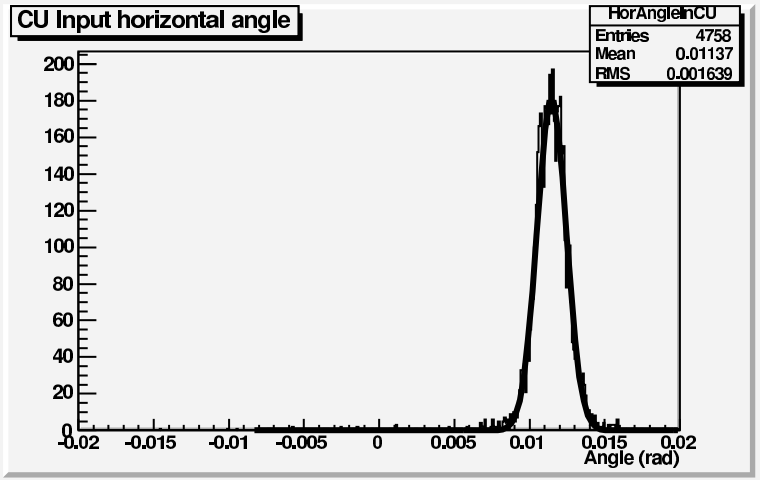

CU Input vertical angle
VertAngleInCU
Entries 6599
Mean 0.006186
RMS 0.001749
Angle (rad)

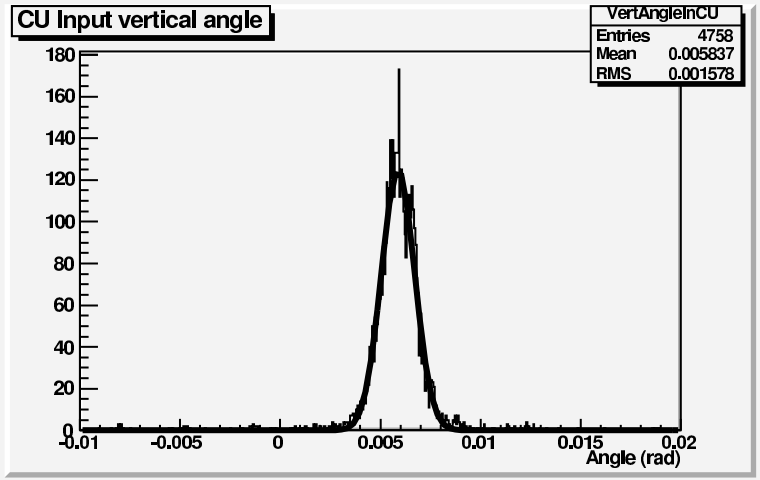

CU Input Beam Spot
SpotCoordInCU
Entries 6599
Mean x 179.7
Mean y -7.165
RMS x 7.066
RMS y 6.001
Vertical Position (mm)
Horizontal Position (mm)

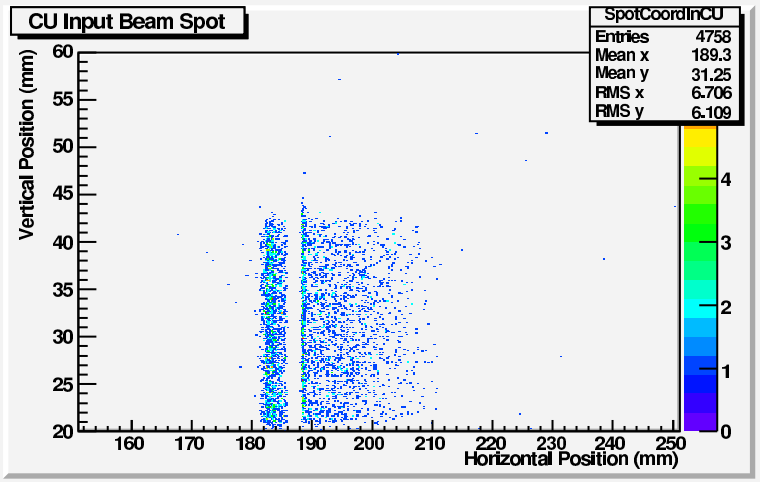

CU Input Beam Spot
SpotAngleInCU
Entries 6599
Mean x 0.006182
Mean y 0.01169
RMS x 0.00172
RMS y 0.001828
Vertical Angle (rad)
Horizontal Angle (rad)

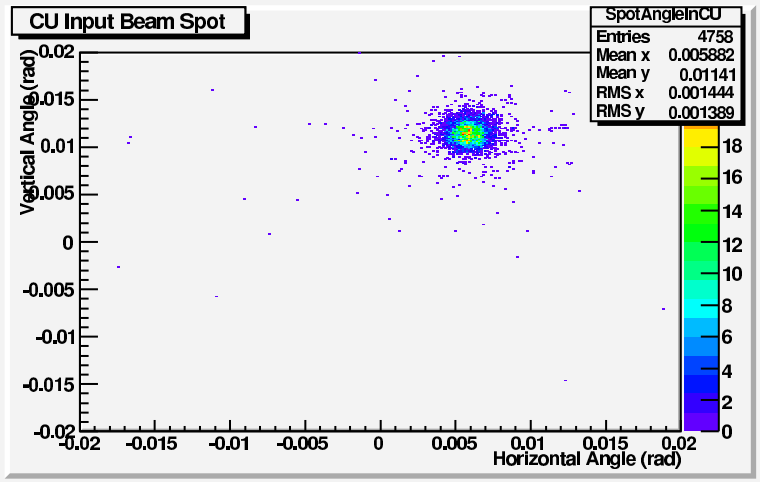

CU Input Horizontal coordinate
HorCoordInCU
Entries 4758
Mean 189.7
RMS 8.094
Position (mm)

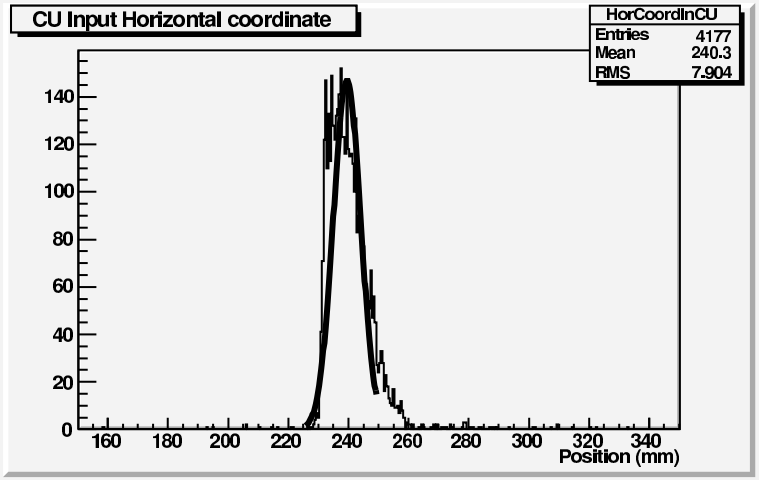

CU Input vertical coordinate
VertCoordInCU
Entries 4758
Mean 31.06
RMS 6.772
Position (mm)

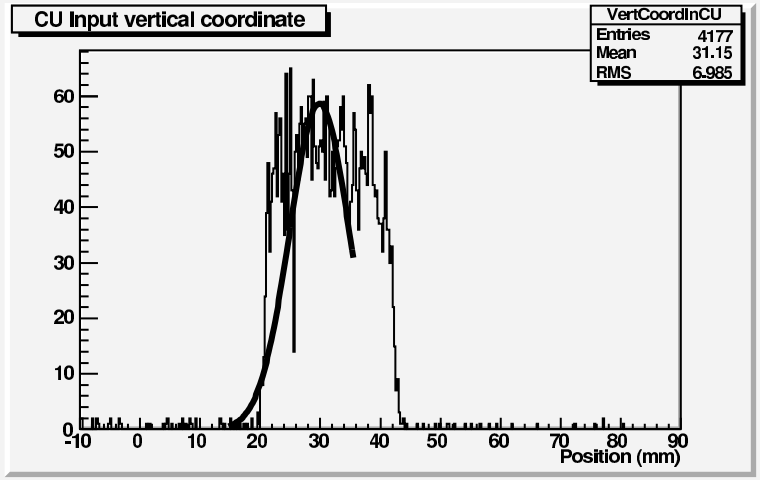

CU Input horizontal angle
HorAngleInCU
Entries 4758
Mean 0.01137
RMS 0.001639
Angle (rad)

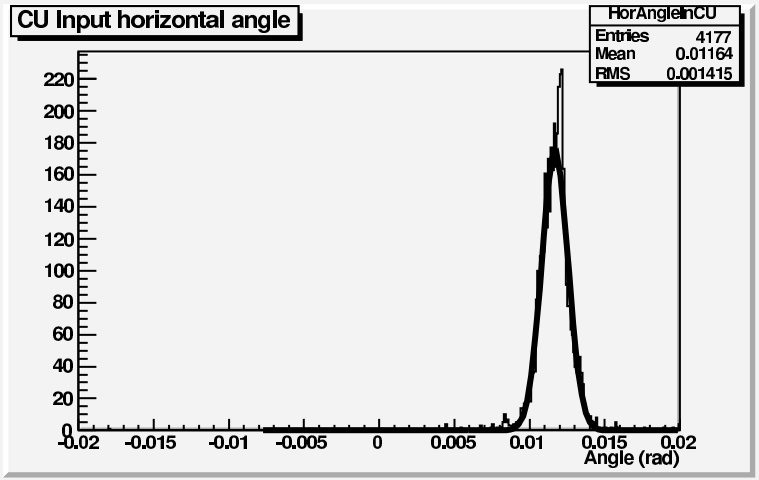

CU Input vertical angle
VertAngleInCU
Entries 4758
Mean 0.005837
RMS 0.001578
Angle (rad)

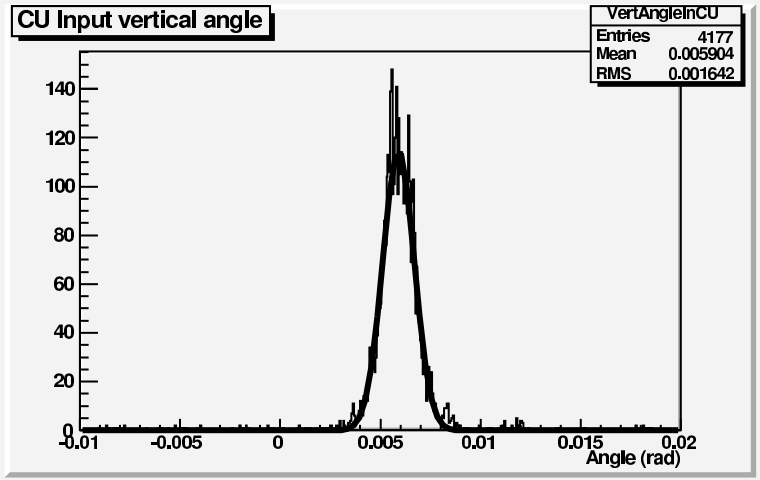

CU Input Beam Spot
SpotCoordInCU
Entries 4758
Mean x 189.3
Mean y 31.25
RMS x 6.706
RMS y 6.109
Vertical Position (mm)
Horizontal Position (mm)

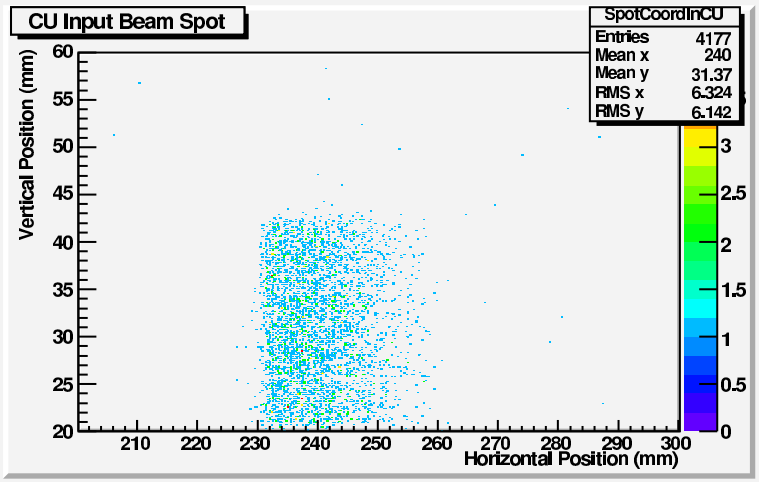

CU Input Beam Spot
SpotAngleInCU
Entries 4758
Mean x 0.005882
Mean y 0.01141
RMS x 0.001444
RMS y 0.001389
Vertical Angle (rad)
Horizontal Angle (rad)

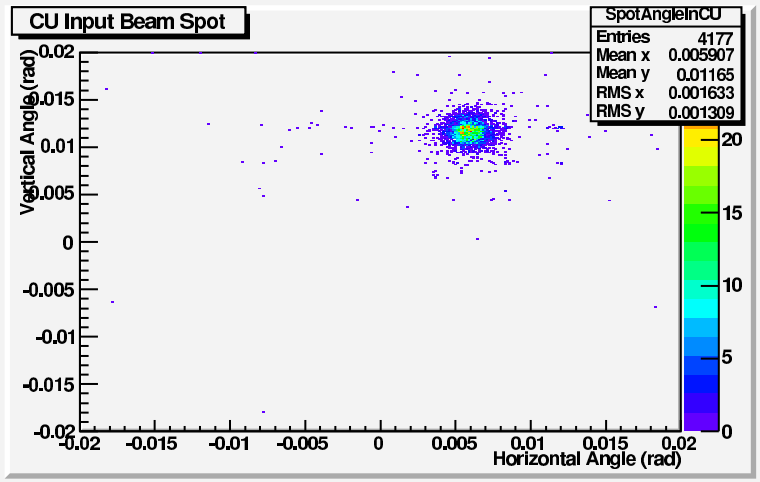

CU Input Horizontal coordinate
HorCoordInCU
Entries 4177
Mean 240.3
RMS 7.904
Position (mm)

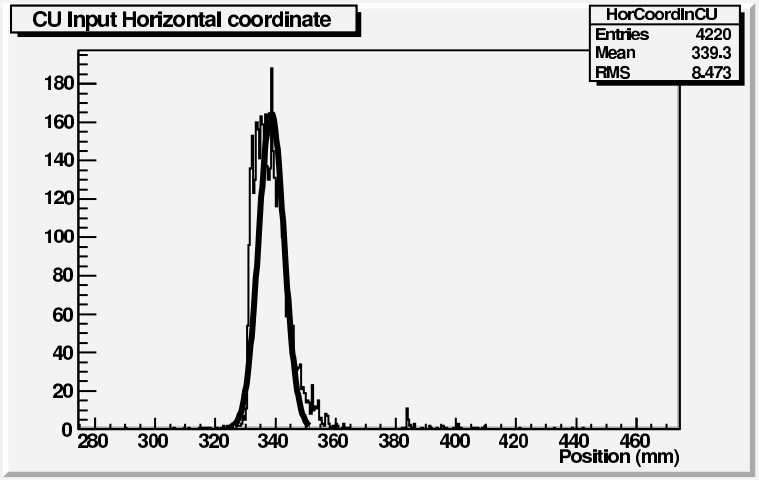

CU Input vertical coordinate
VertCoordInCU
Entries 4177
Mean 31.15
RMS 6.985
Position (mm)

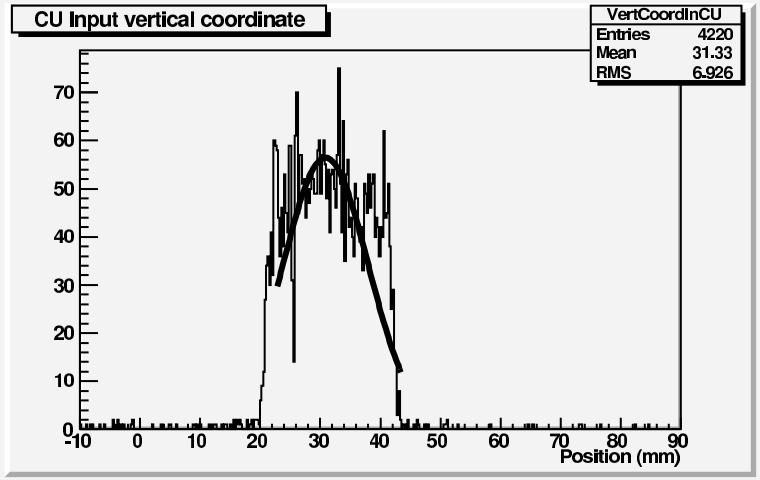

CU Input horizontal angle
HorAngleInCU
Entries 4177
Mean 0.01164
RMS 0.001415
Angle (rad)

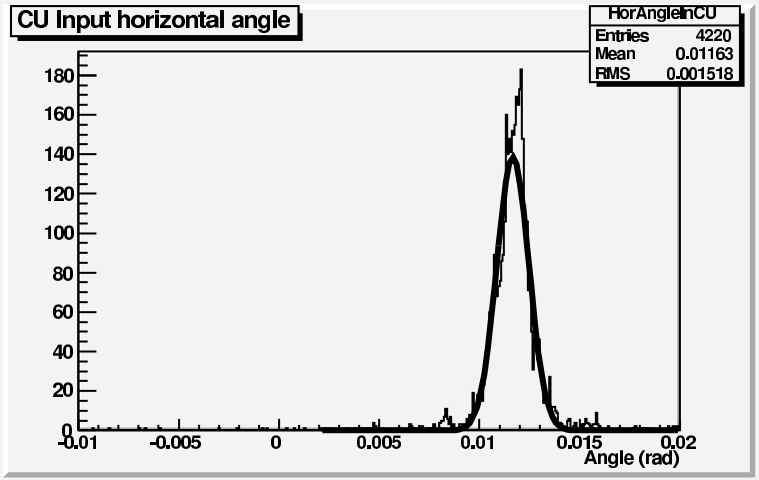

CU Input vertical angle
VertAngleInCU
Entries 4177
Mean 0.005904
RMS 0.001642
Angle (rad)

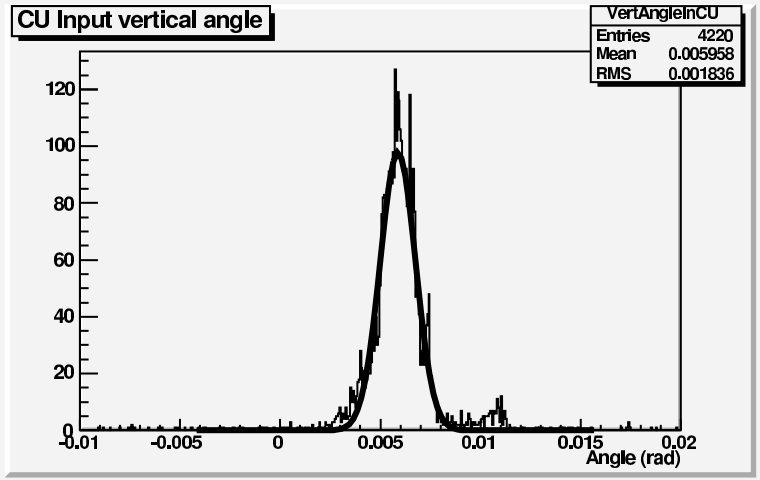

CU Input Beam Spot
SpotCoordInCU
Entries 4177
Mean x 240
Mean y 31.37
RMS x 6.324
RMS y 6.142
Vertical Position (mm)
Horizontal Position (mm)

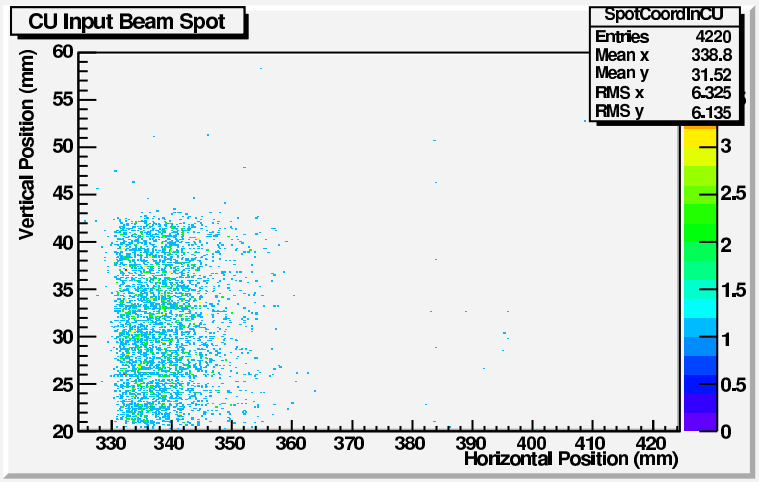

CU Input Beam Spot
SpotAngleInCU
Entries 4177
Mean x 0.005907
Mean y 0.01165
RMS x 0.001633
RMS y 0.001309
Vertical Angle (rad)
Horizontal Angle (rad)

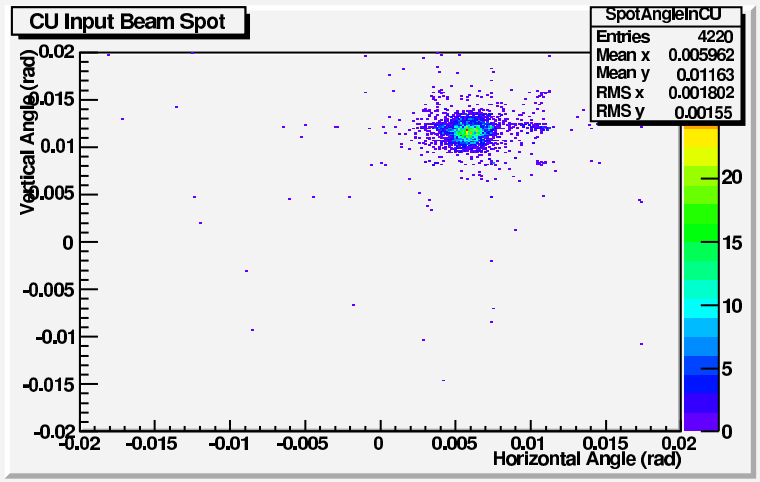

CU Input Horizontal coordinate
HorCoordInCU
Entries 4220
Mean 339.3
RMS 8.473
Position (mm)

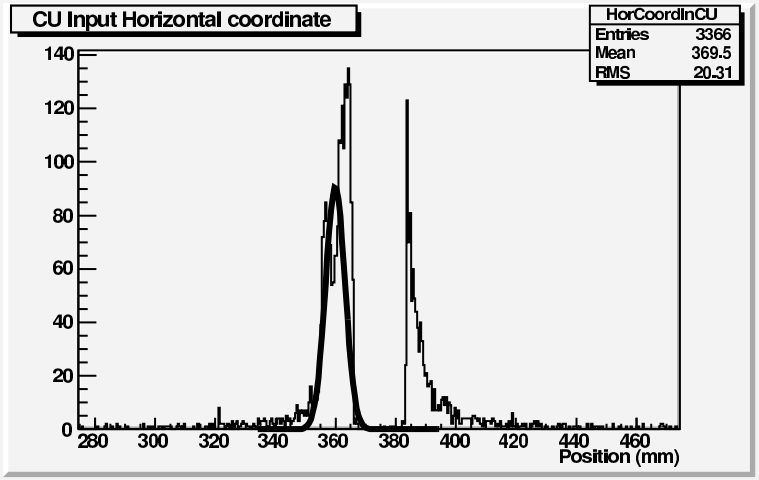

CU Input vertical coordinate
VertCoordInCU
Entries 4220
Mean 31.33
RMS 6.926
Position (mm)

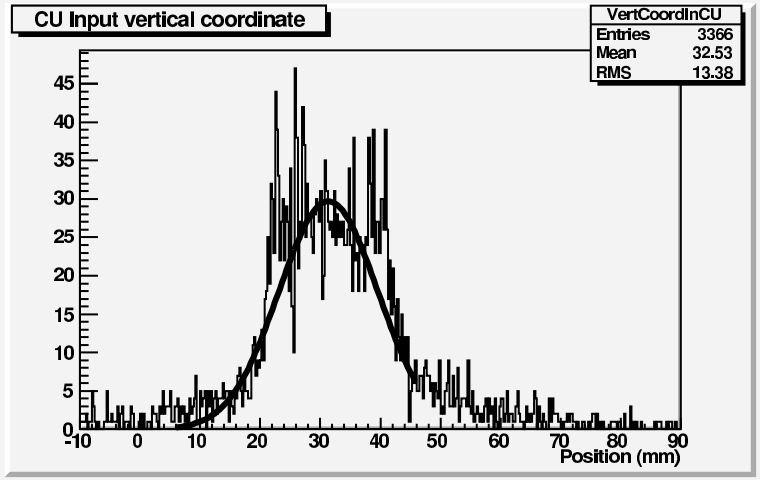

CU Input horizontal angle
HorAngleInCU
Entries 4220
Mean 0.01163
RMS 0.001518
Angle (rad)

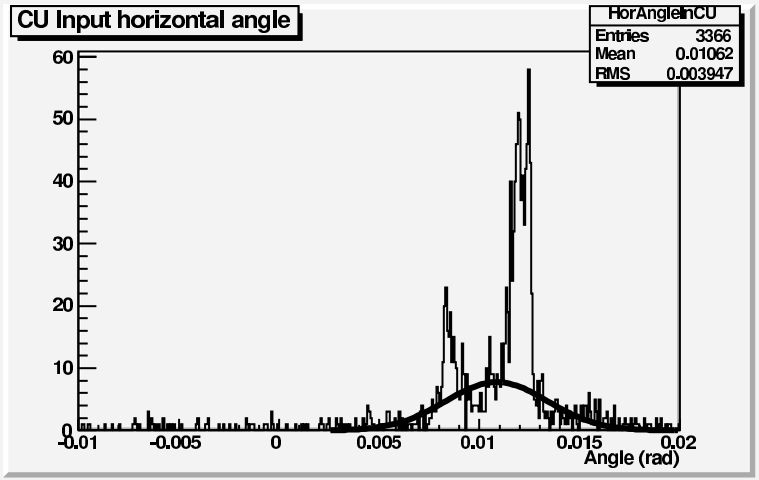

CU Input vertical angle
VertAngleInCU
Entries 4220
Mean 0.005958
RMS 0.001836
Angle (rad)

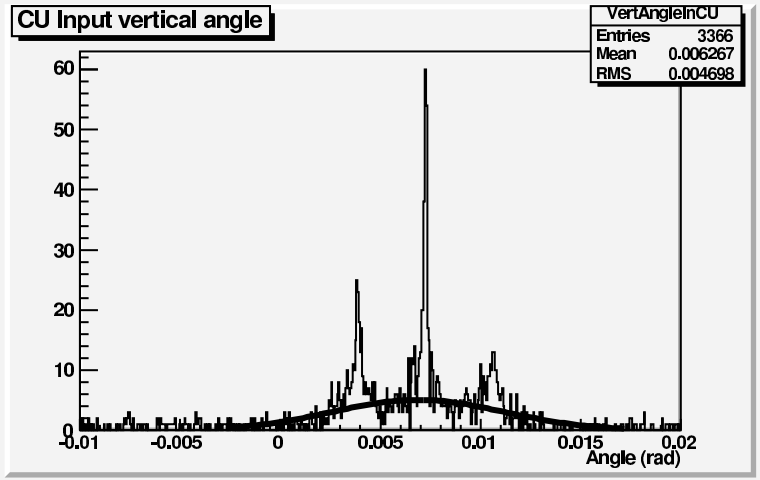

CU Input Beam Spot
SpotCoordInCU
Entries 4220
Mean x 338.8
Mean y 31.52
RMS x 6.325
RMS y 6.135
Vertical Position (mm)
Horizontal Position (mm)

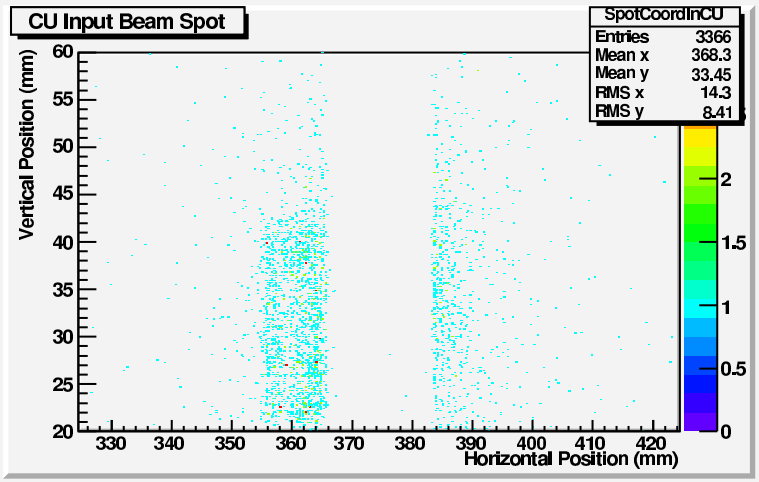

CU Input Beam Spot
SpotAngleInCU
Entries 4220
Mean x 0.005962
Mean y 0.01163
RMS x 0.001802
RMS y 0.00155
Vertical Angle (rad)
Horizontal Angle (rad)

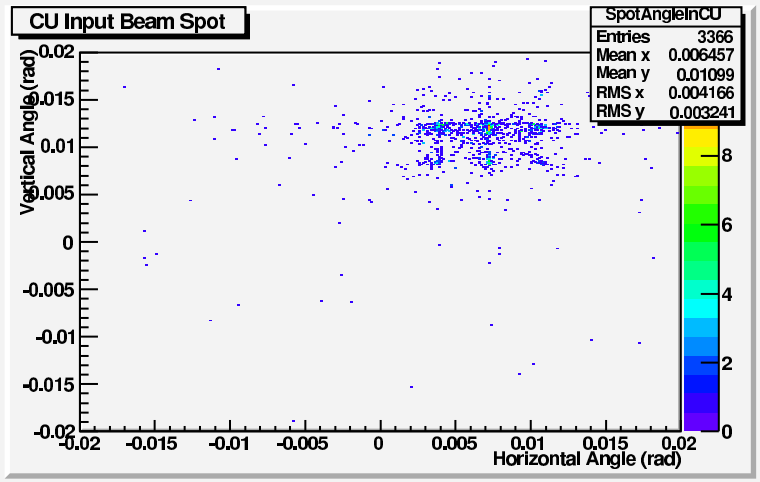

CU Input Horizontal coordinate
HorCoordInCU
Entries 3366
Mean 369.5
RMS 20.31
Position (mm)

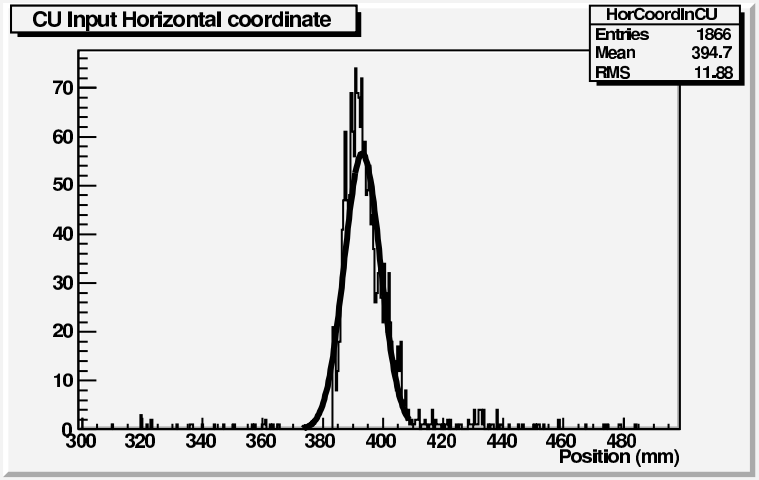

CU Input vertical coordinate
VertCoordInCU
Entries 3366
Mean 32.53
RMS 13.38
Position (mm)

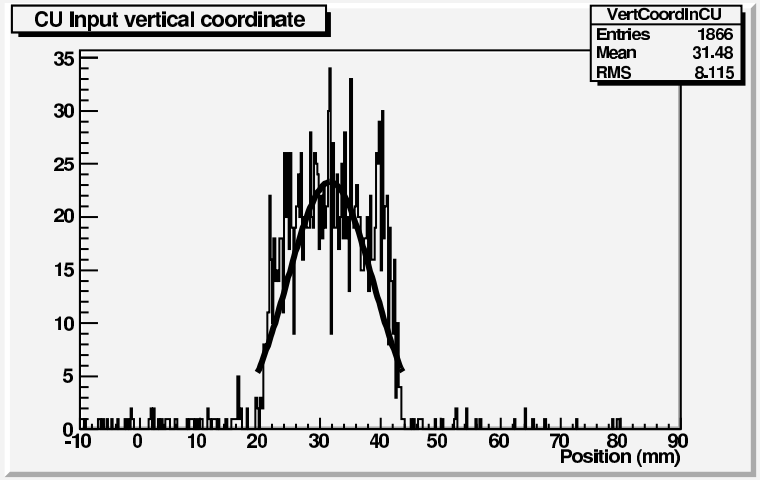

CU Input horizontal angle
HorAngleInCU
Entries 3366
Mean 0.01062
RMS 0.003947
Angle (rad)

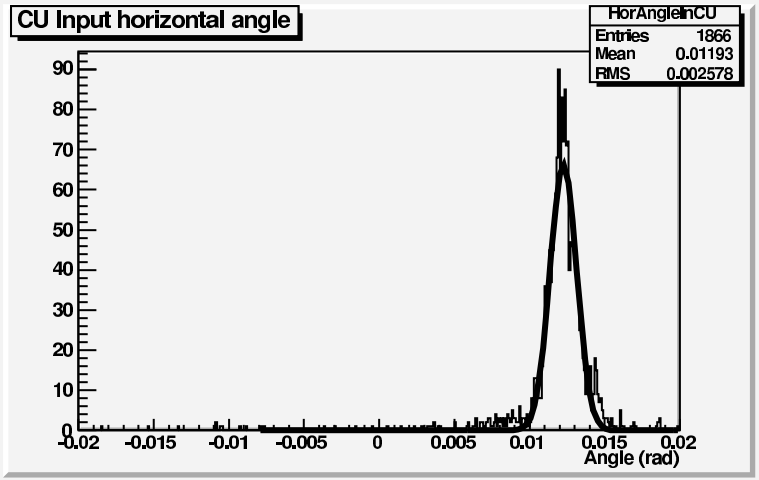

CU Input vertical angle
VertAngleInCU
Entries 3366
Mean 0.006267
RMS 0.004698
Angle (rad)

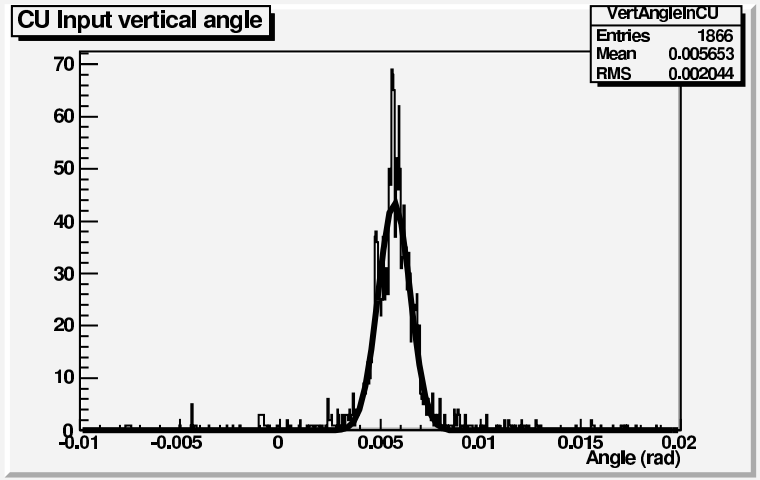

CU Input Beam Spot
SpotCoordInCU
Entries 3366
Mean x 368.3
Mean y 33.45
RMS x 14.3
RMS y 8.41
Vertical Position (mm)
Horizontal Position (mm)

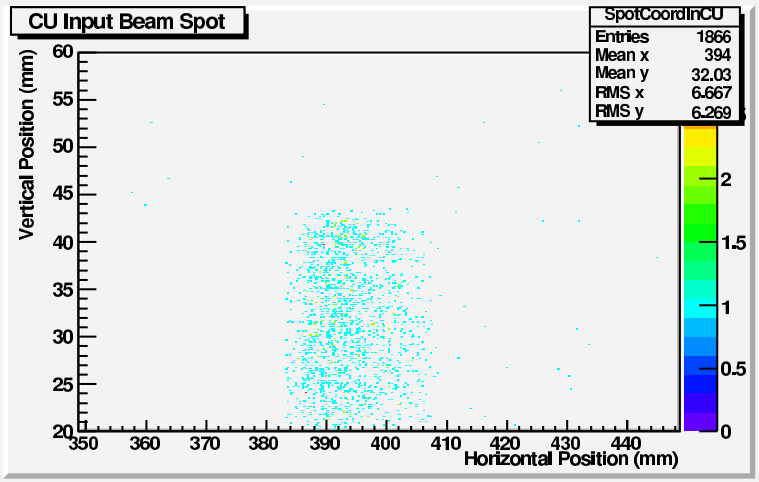

CU Input Beam Spot
SpotAngleInCU
Entries 3366
Mean x 0.006457
Mean y 0.01099
RMS x 0.004166
RMS y 0.003241
Vertical Angle (rad)
Horizontal Angle (rad)

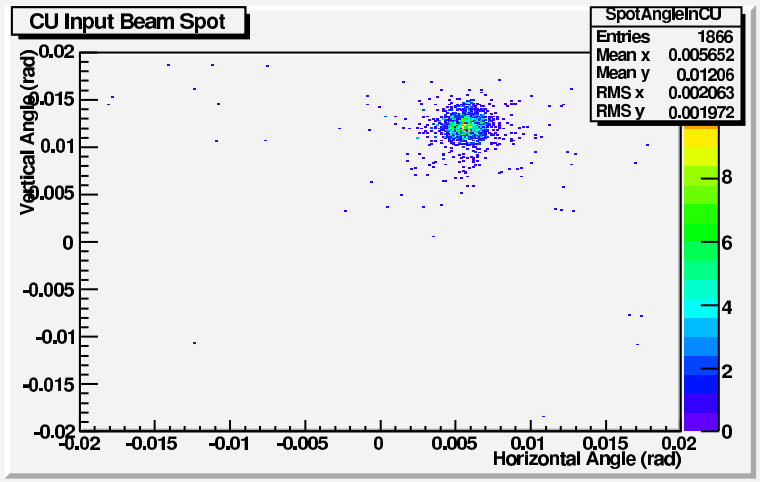

CU Input Horizontal coordinate
HorCoordInCU
Entries 1866
Mean 394.7
RMS 11.88
Position (mm)

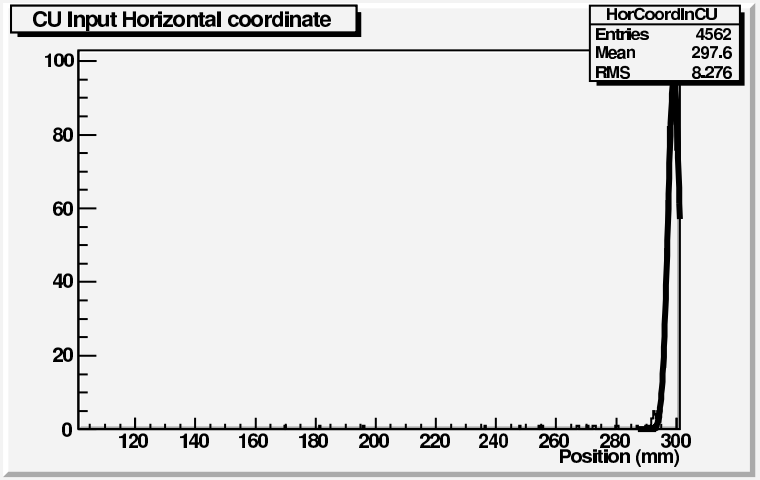

CU Input vertical coordinate
VertCoordInCU
Entries 1866
Mean 31.48
RMS 8.115
Position (mm)

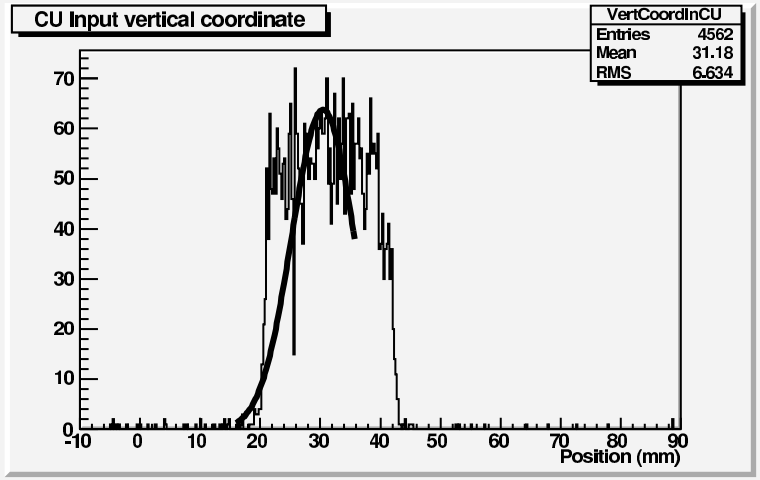

CU Input horizontal angle
HorAngleInCU
Entries 1866
Mean 0.01193
RMS 0.002578
Angle (rad)

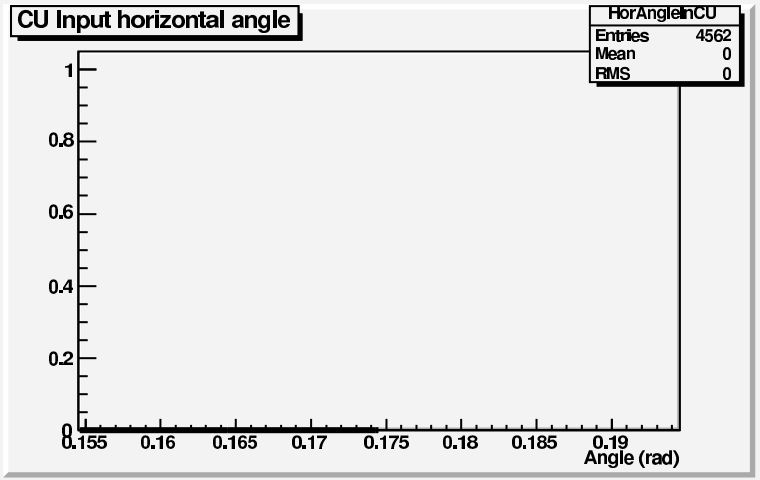

CU Input vertical angle
VertAngleInCU
Entries 1866
Mean 0.005653
RMS 0.002044
Angle (rad)

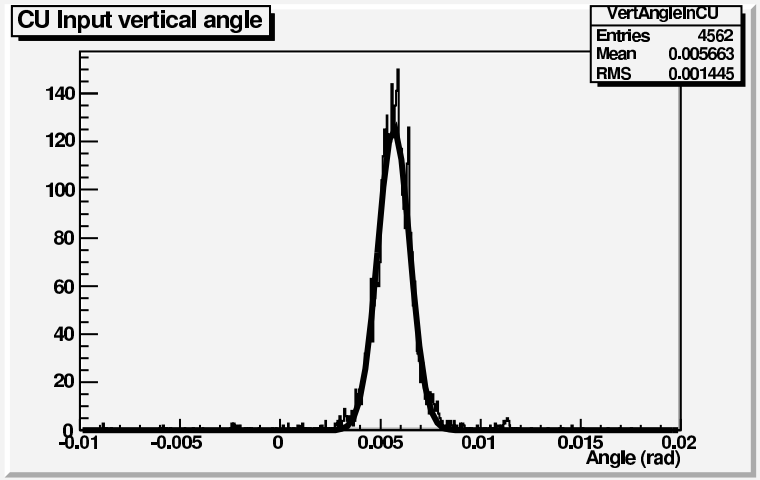

CU Input Beam Spot
SpotCoordInCU
Entries 1866
Mean x 394
Mean y 32.03
RMS x 6.667
RMS y 6.269
Vertical Position (mm)
Horizontal Position (mm)

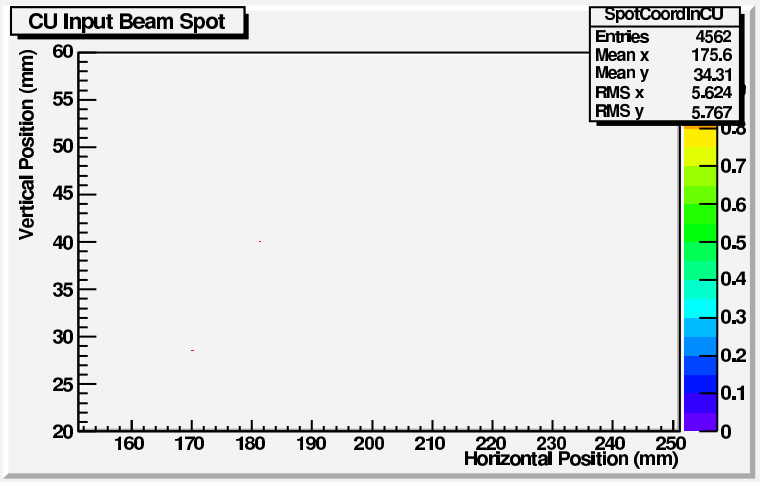

CU Input Beam Spot
SpotAngleInCU
Entries 1866
Mean x 0.005652
Mean y 0.01206
RMS x 0.002063
RMS y 0.001972
Vertical Angle (rad)
Horizontal Angle (rad)

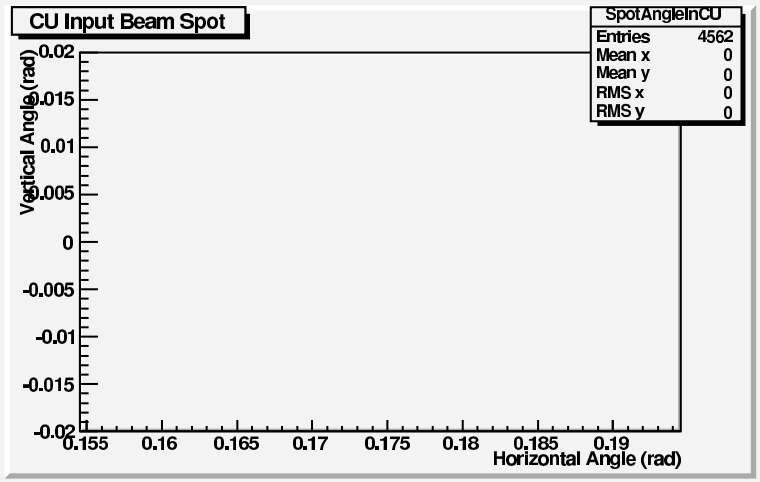

CU Input Horizontal coordinate
HorCoordInCU
Entries 4562
Mean 297.6
RMS 8.276
Position (mm)

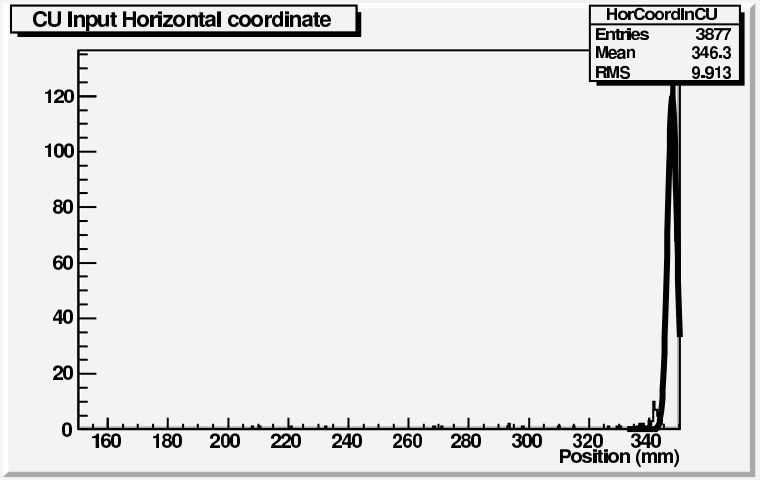

CU Input vertical coordinate
VertCoordInCU
Entries 4562
Mean 31.18
RMS 6.634
Position (mm)

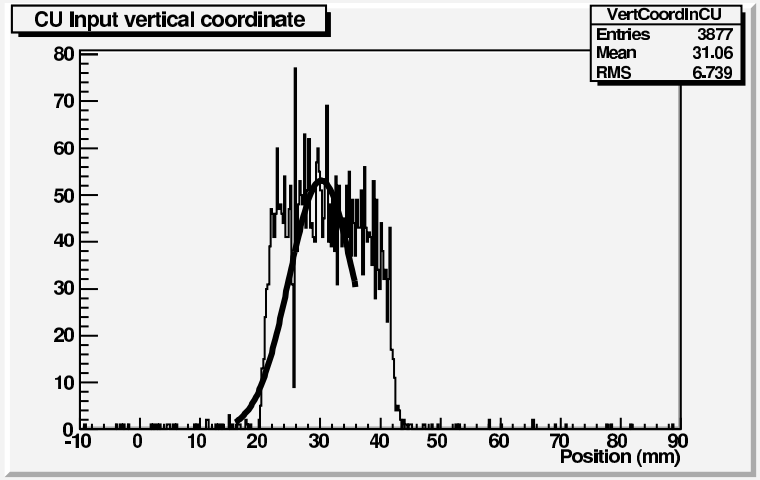

CU Input horizontal angle
HorAngleInCU
Entries 4562
Mean 0
RMS 0
Angle (rad)

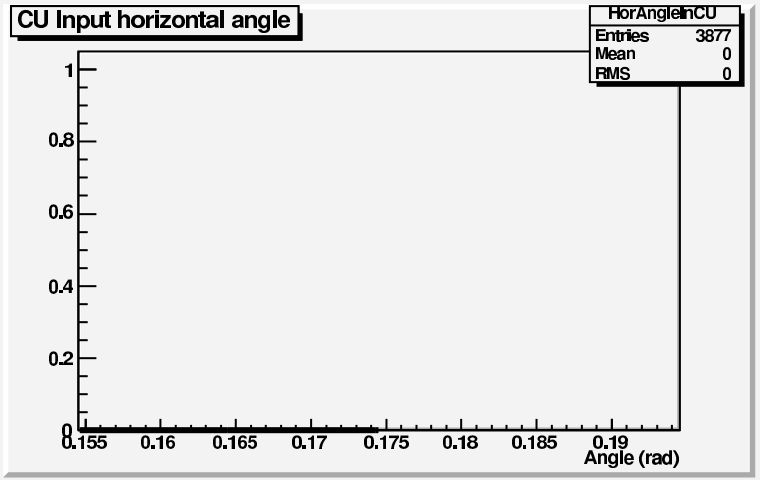

CU Input vertical angle
VertAngleInCU
Entries 4562
Mean 0.005663
RMS 0.001445
Angle (rad)

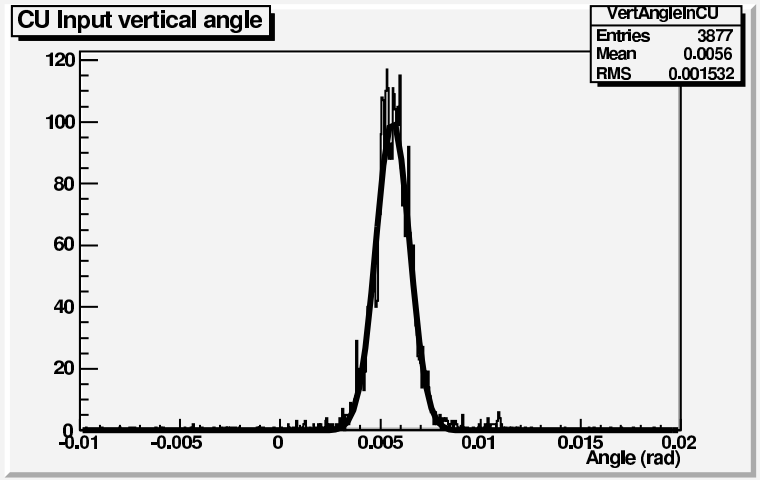

CU Input Beam Spot
SpotCoordInCU
Entries 4562
Mean x 175.6
Mean y 34.31
RMS x 5.624
RMS y 5.767
Vertical Position (mm)
Horizontal Position (mm)

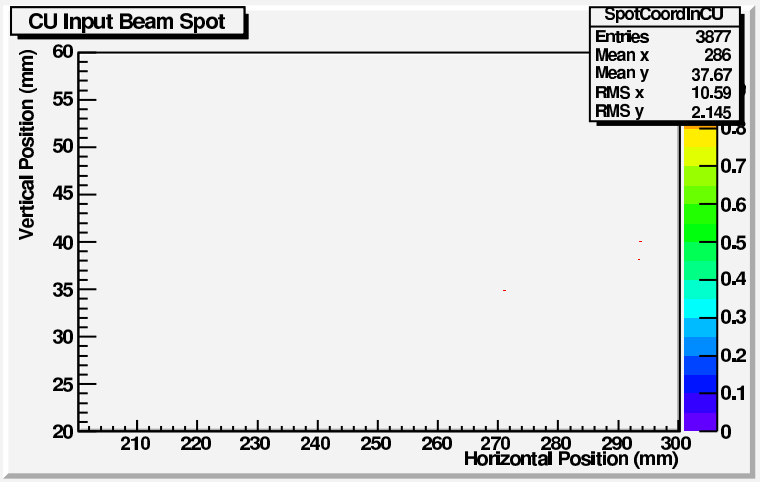

CU Input Beam Spot
SpotAngleInCU
Entries 4562
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

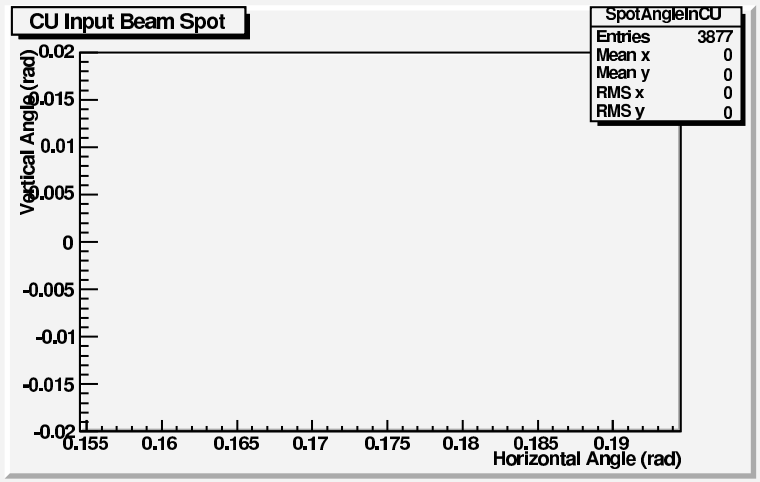

CU Input Horizontal coordinate
HorCoordInCU
Entries 3877
Mean 346.3
RMS 9.913
Position (mm)

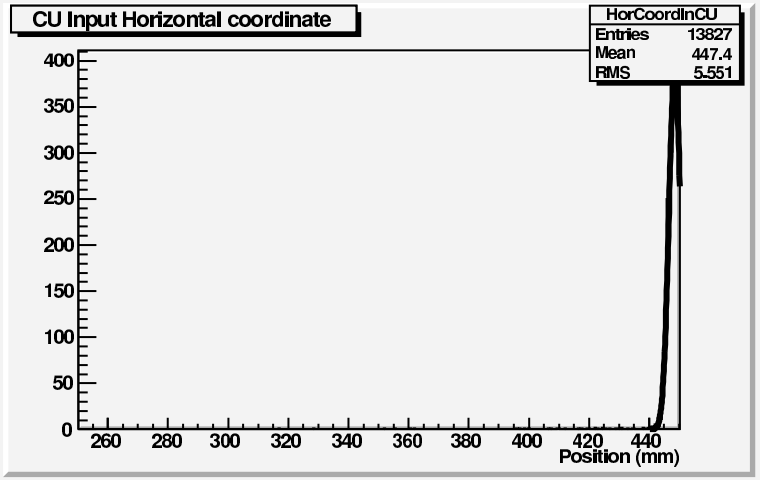

CU Input vertical coordinate
VertCoordInCU
Entries 3877
Mean 31.06
RMS 6.739
Position (mm)

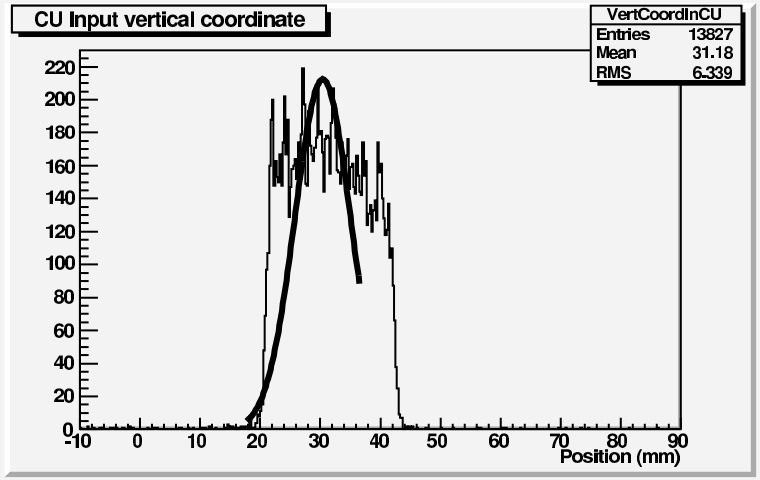

CU Input horizontal angle
HorAngleInCU
Entries 3877
Mean 0
RMS 0
Angle (rad)

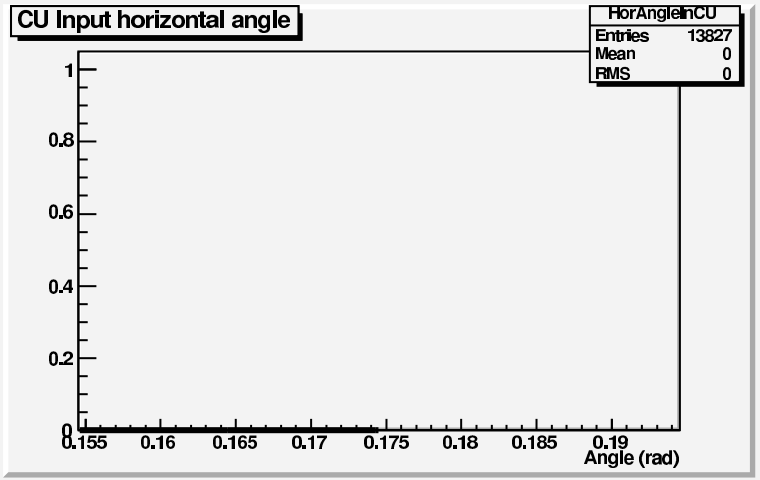

CU Input vertical angle
VertAngleInCU
Entries 3877
Mean 0.0056
RMS 0.001532
Angle (rad)

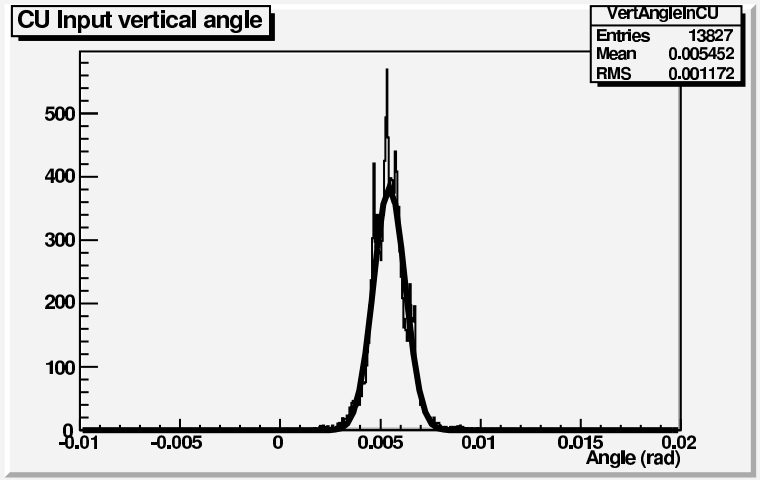

CU Input Beam Spot
SpotCoordInCU
Entries 3877
Mean x 286
Mean y 37.67
RMS x 10.59
RMS y 2.145
Vertical Position (mm)
Horizontal Position (mm)

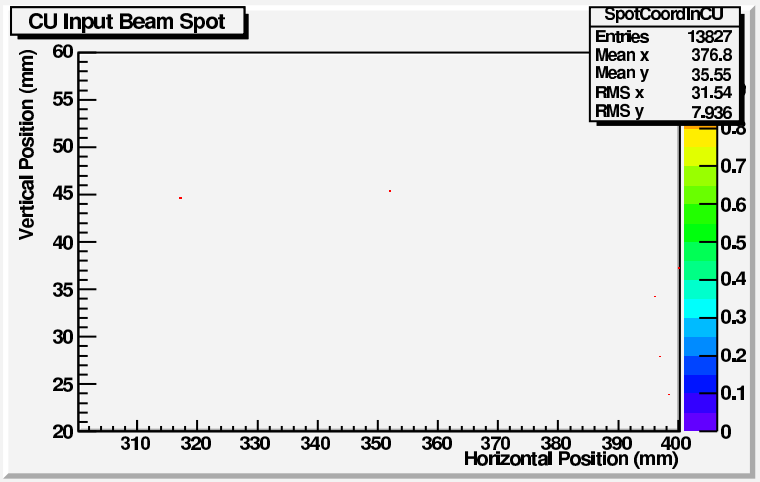

CU Input Beam Spot
SpotAngleInCU
Entries 3877
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

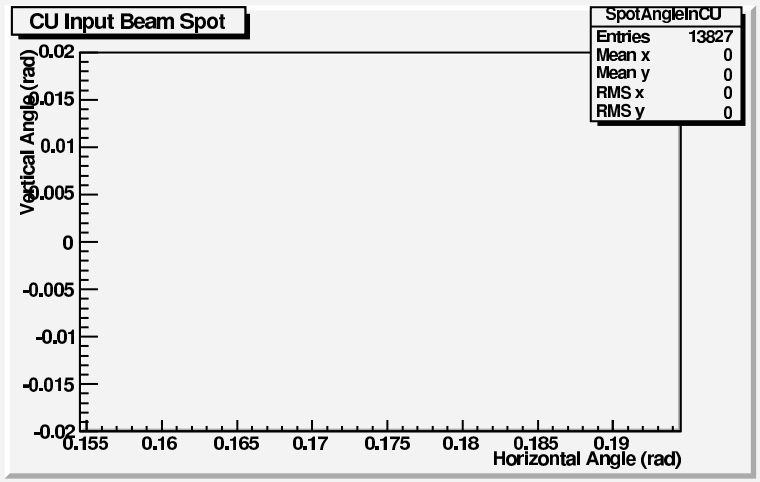

CU Input Horizontal coordinate
HorCoordInCU
Entries 13827
Mean 447.4
RMS 5.551
Position (mm)

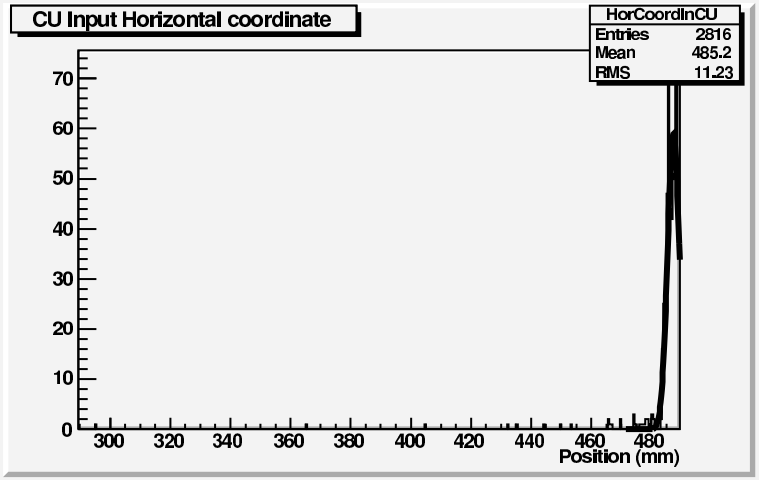

CU Input vertical coordinate
VertCoordInCU
Entries 13827
Mean 31.18
RMS 6.339
Position (mm)

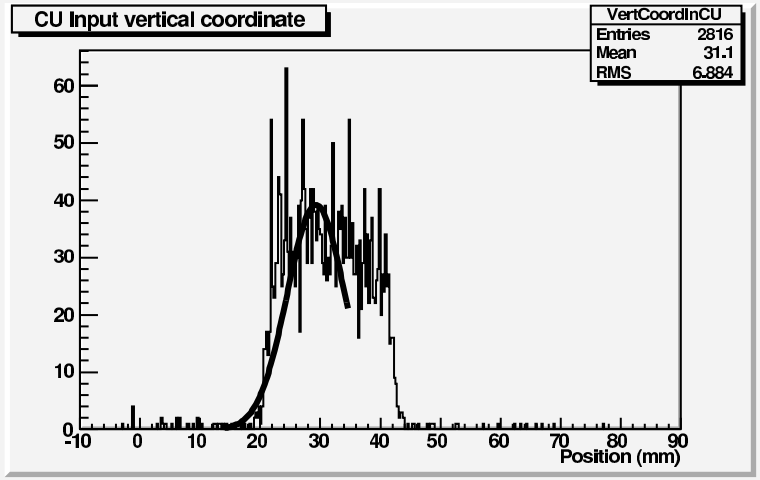

CU Input horizontal angle
HorAngleInCU
Entries 13827
Mean 0
RMS 0
Angle (rad)

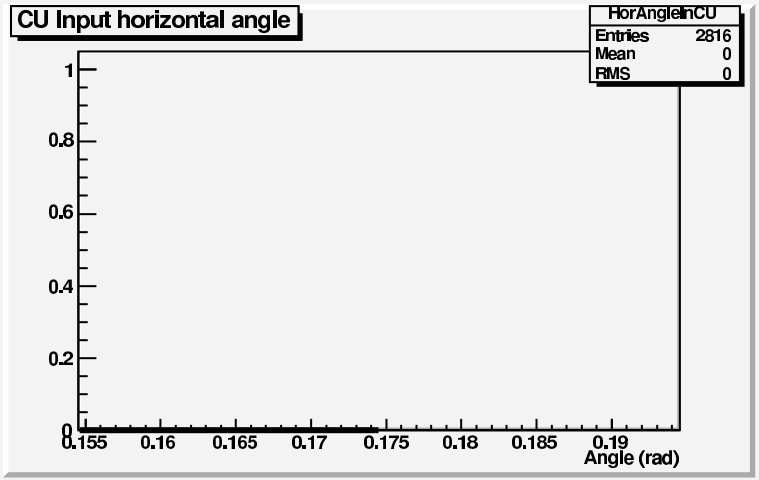

CU Input vertical angle
VertAngleInCU
Entries 13827
Mean 0.005452
RMS 0.001172
Angle (rad)

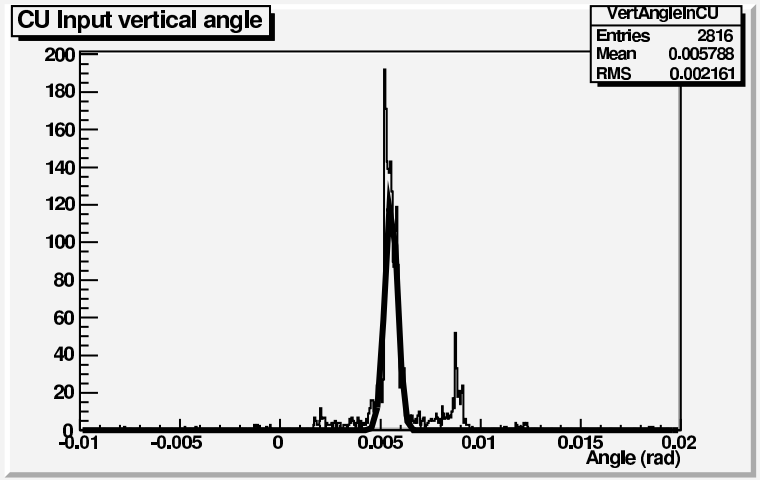

CU Input Beam Spot
SpotCoordInCU
Entries 13827
Mean x 376.8
Mean y 35.55
RMS x 31.54
RMS y 7.936
Vertical Position (mm)
Horizontal Position (mm)

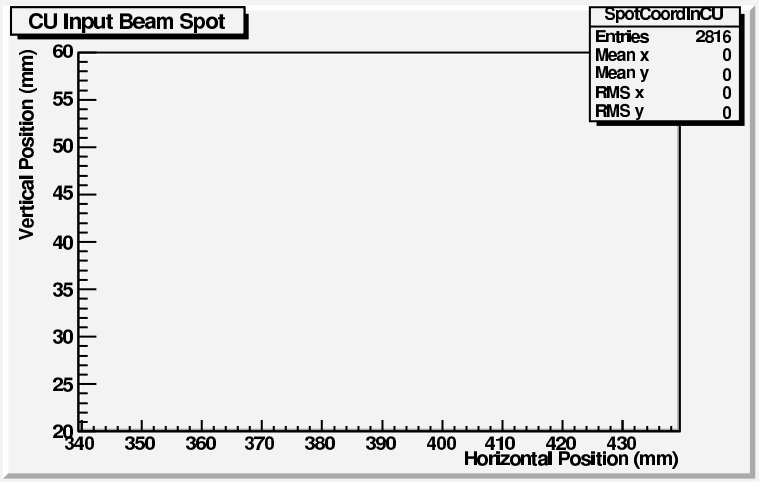

CU Input Beam Spot
SpotAngleInCU
Entries 13827
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

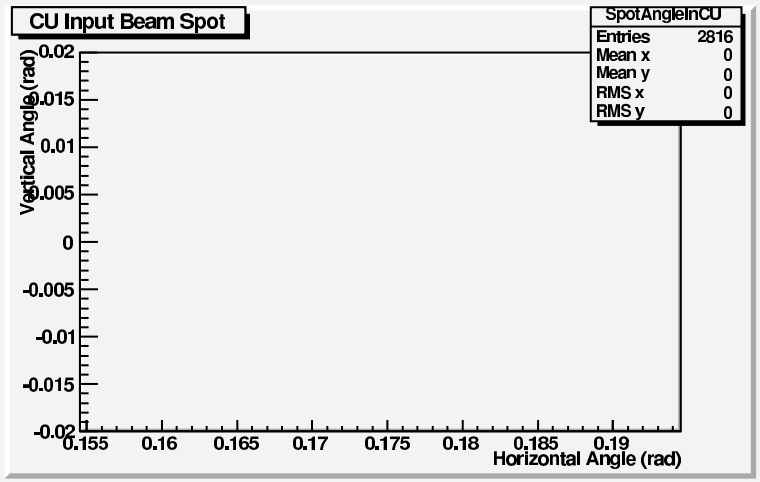

CU Input Horizontal coordinate
HorCoordInCU
Entries 2816
Mean 485.2
RMS 11.23
Position (mm)

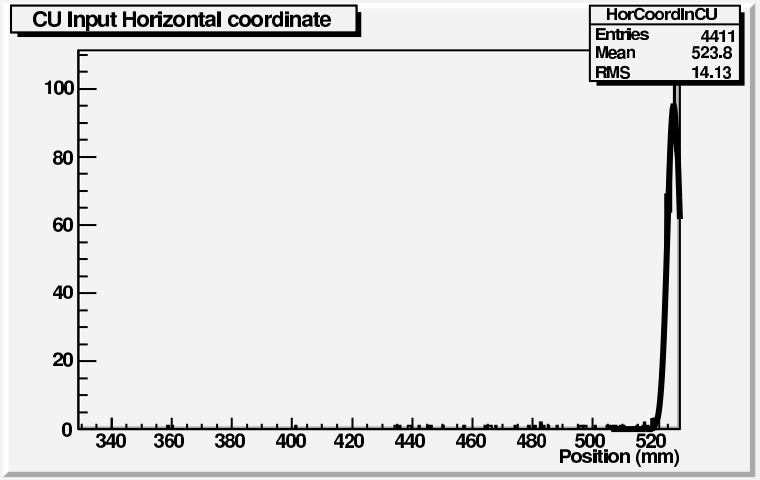

CU Input vertical coordinate
VertCoordInCU
Entries 2816
Mean 31.1
RMS 6.884
Position (mm)

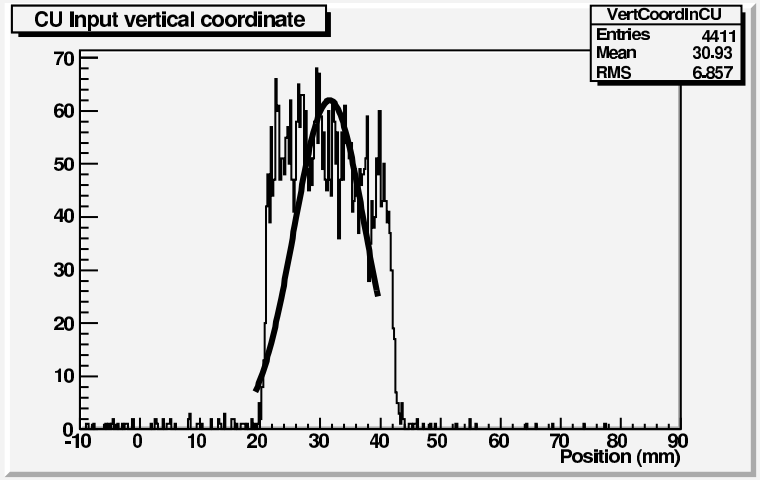

CU Input horizontal angle
HorAngleInCU
Entries 2816
Mean 0
RMS 0
Angle (rad)

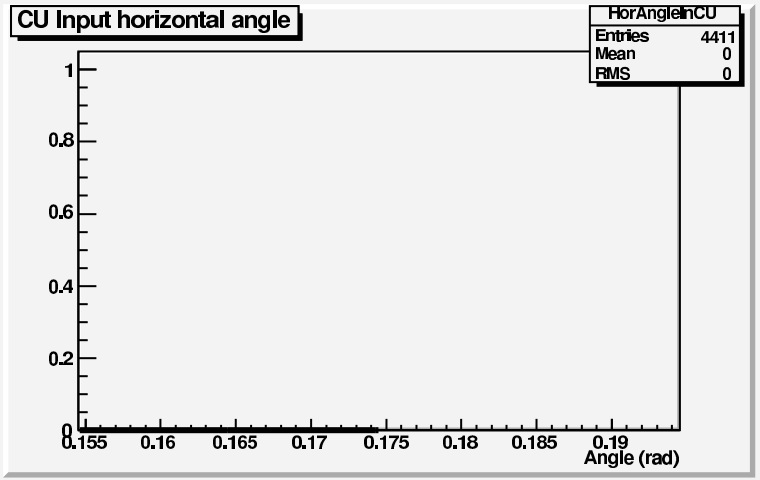

CU Input vertical angle
VertAngleInCU
Entries 2816
Mean 0.005788
RMS 0.002161
Angle (rad)

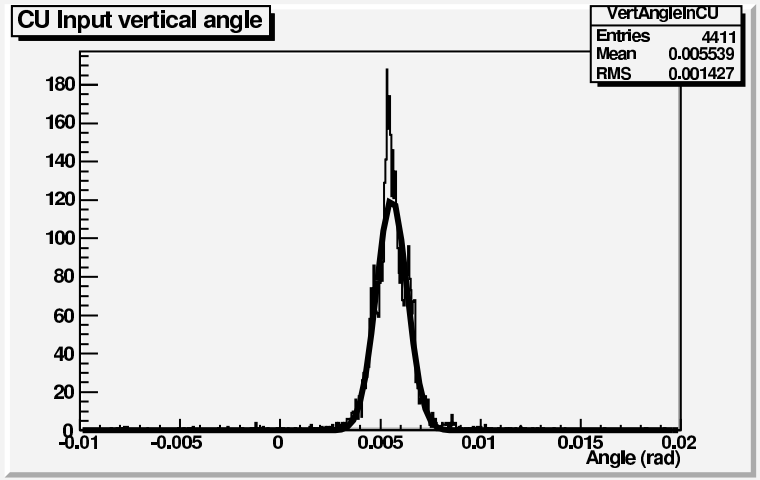

CU Input Beam Spot
SpotCoordInCU
Entries 2816
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Position (mm)
Horizontal Position (mm)

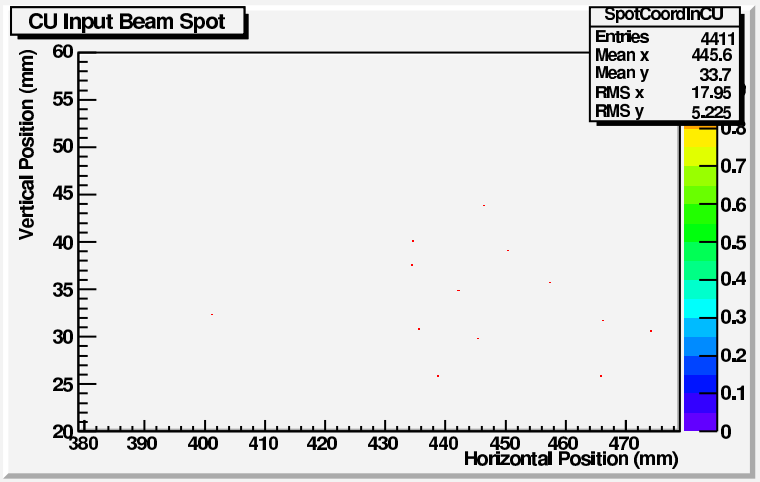

CU Input Beam Spot
SpotAngleInCU
Entries 2816
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

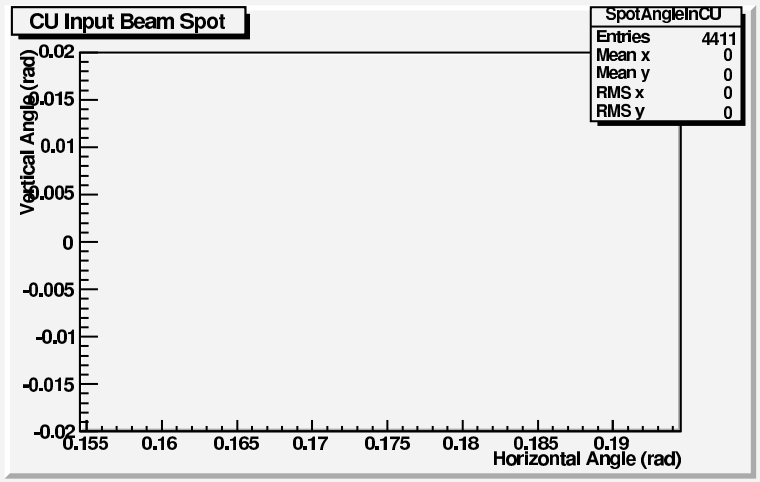

CU Input Horizontal coordinate
HorCoordInCU
Entries 4411
Mean 523.8
RMS 14.13
Position (mm)

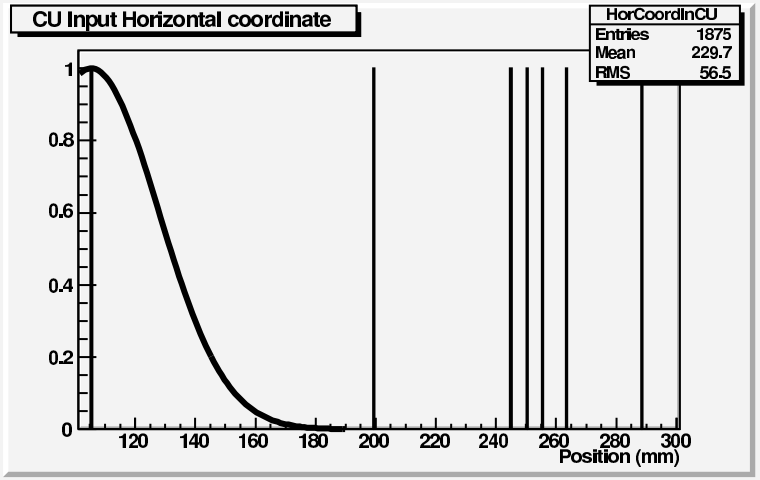

CU Input vertical coordinate
VertCoordInCU
Entries 4411
Mean 30.93
RMS 6.857
Position (mm)

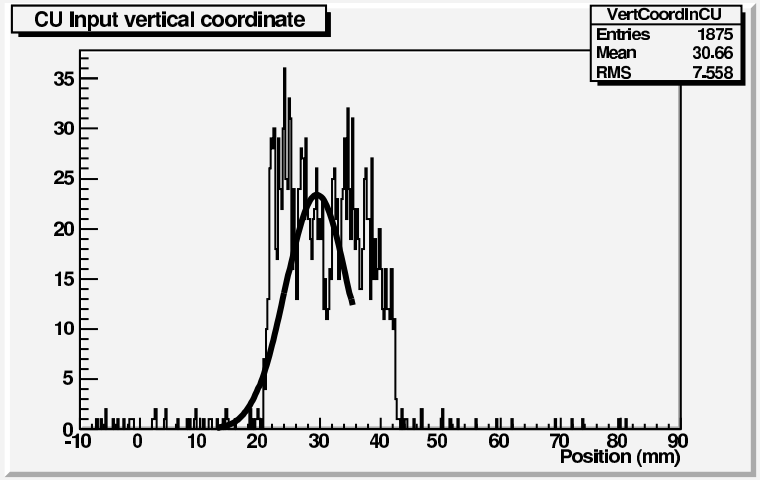

CU Input horizontal angle
HorAngleInCU
Entries 4411
Mean 0
RMS 0
Angle (rad)

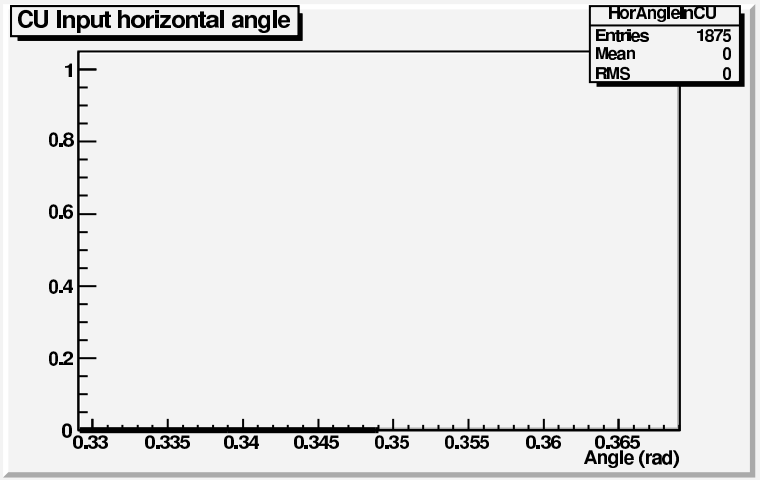

CU Input vertical angle
VertAngleInCU
Entries 4411
Mean 0.005539
RMS 0.001427
Angle (rad)

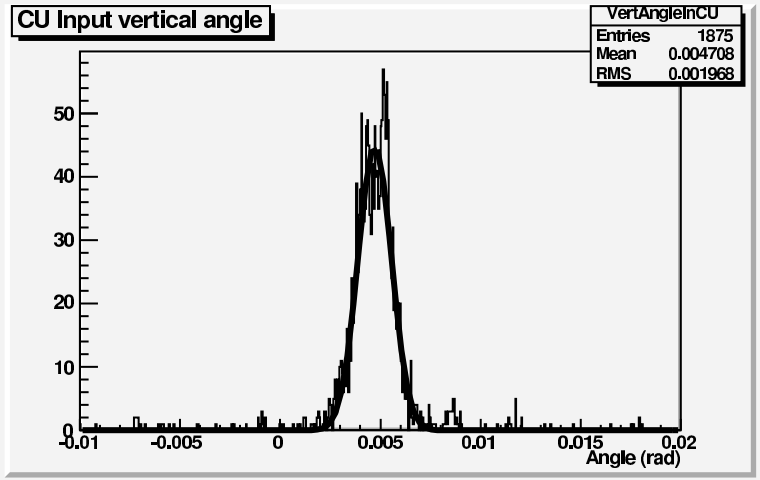

CU Input Beam Spot
SpotCoordInCU
Entries 4411
Mean x 445.6
Mean y 33.7
RMS x 17.95
RMS y 5.225
Vertical Position (mm)
Horizontal Position (mm)

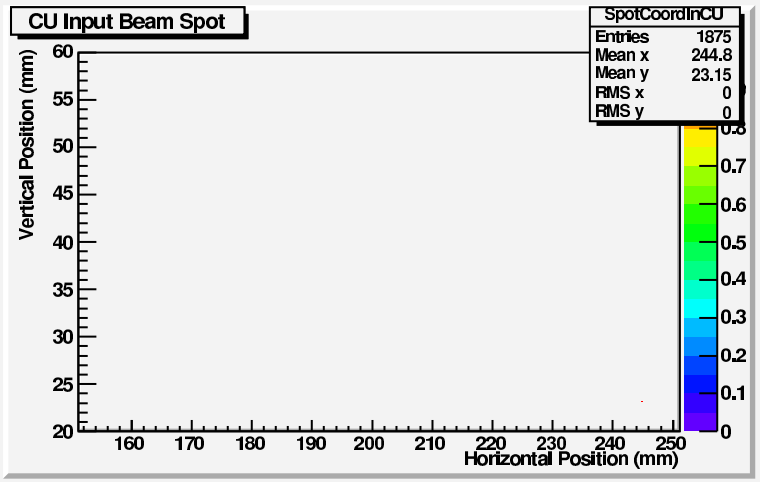

CU Input Beam Spot
SpotAngleInCU
Entries 4411
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

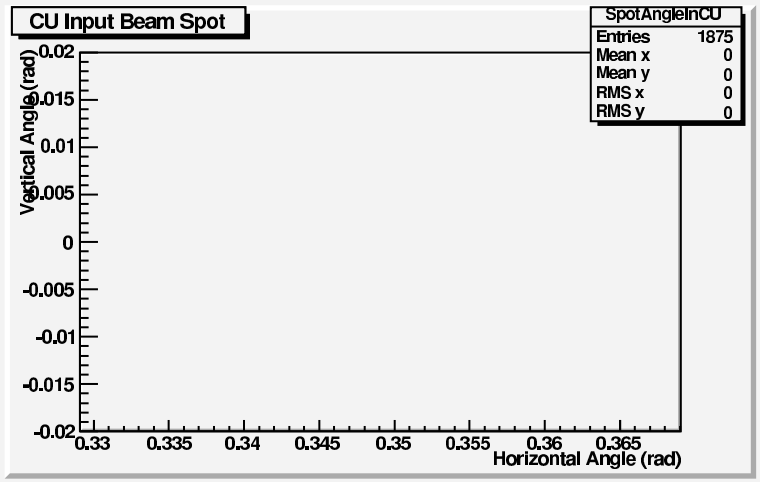

CU Input Horizontal coordinate
HorCoordInCU
Entries 1875
Mean 229.7
RMS 56.5
Position (mm)

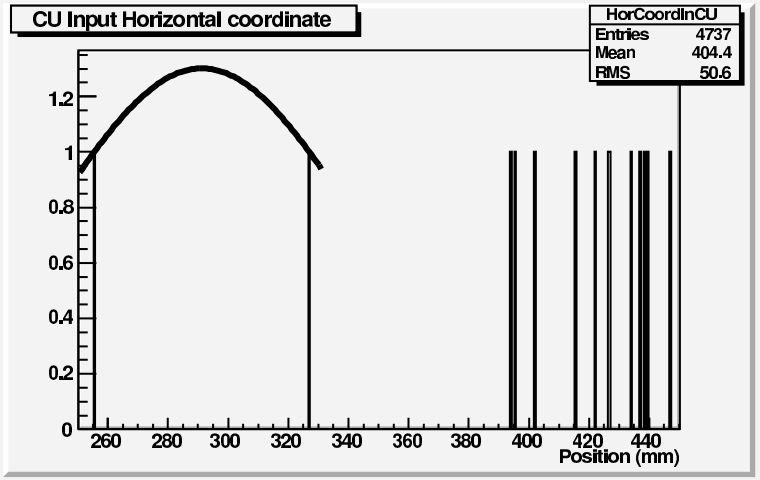

CU Input vertical coordinate
VertCoordInCU
Entries 1875
Mean 30.66
RMS 7.558
Position (mm)

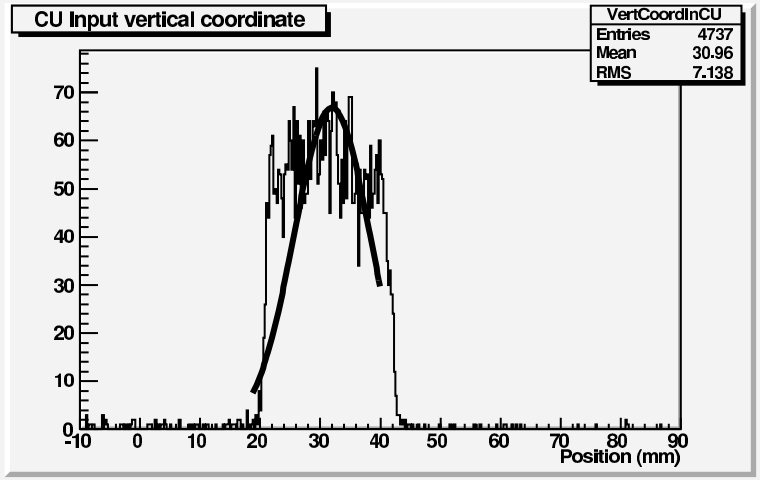

CU Input horizontal angle
HorAngleInCU
Entries 1875
Mean 0
RMS 0
Angle (rad)

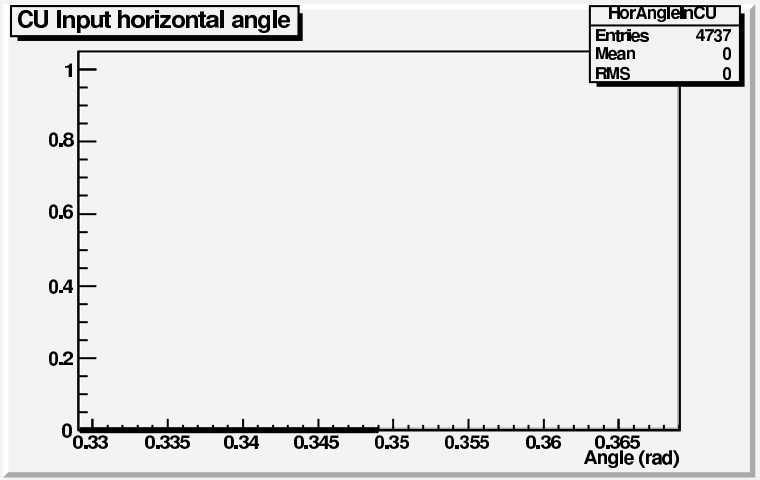

CU Input vertical angle
VertAngleInCU
Entries 1875
Mean 0.004708
RMS 0.001968
Angle (rad)

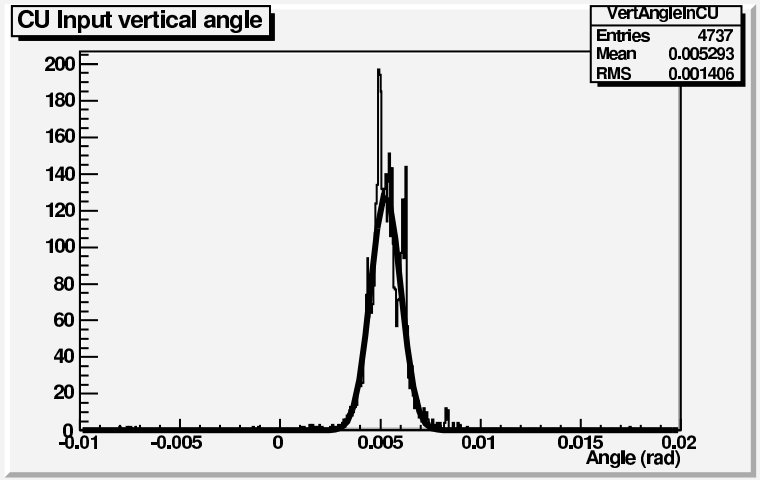

CU Input Beam Spot
SpotCoordInCU
Entries 1875
Mean x 244.8
Mean y 23.15
RMS x 0
RMS y 0
Vertical Position (mm)
Horizontal Position (mm)

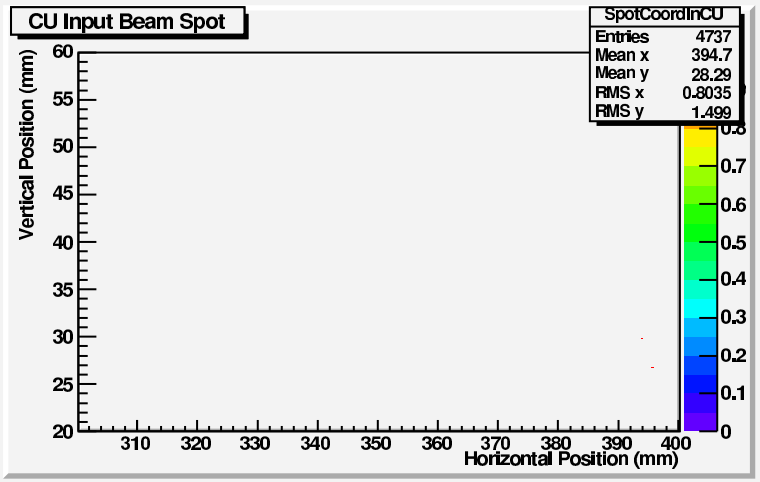

CU Input Beam Spot
SpotAngleInCU
Entries 1875
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

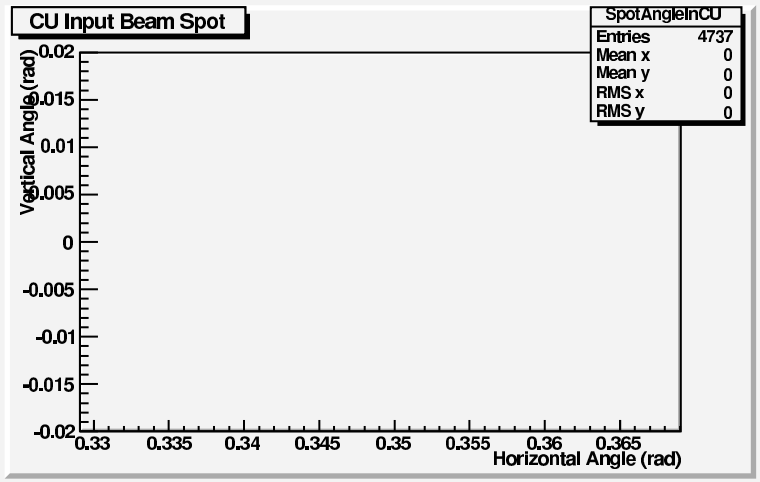

CU Input Horizontal coordinate
HorCoordInCU
Entries 4737
Mean 404.4
RMS 50.6
Position (mm)

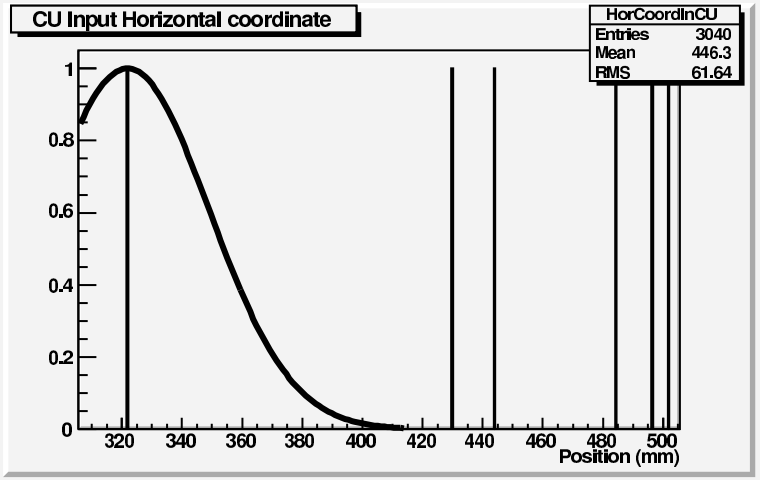

CU Input vertical coordinate
VertCoordInCU
Entries 4737
Mean 30.96
RMS 7.138
Position (mm)

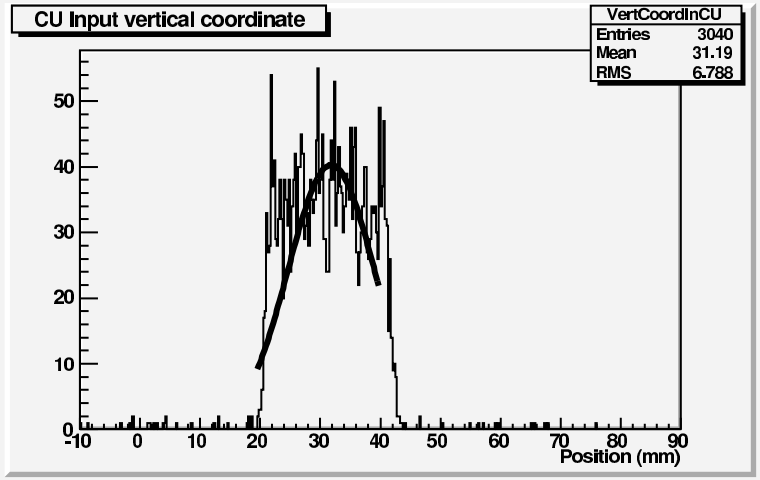

CU Input horizontal angle
HorAngleInCU
Entries 4737
Mean 0
RMS 0
Angle (rad)

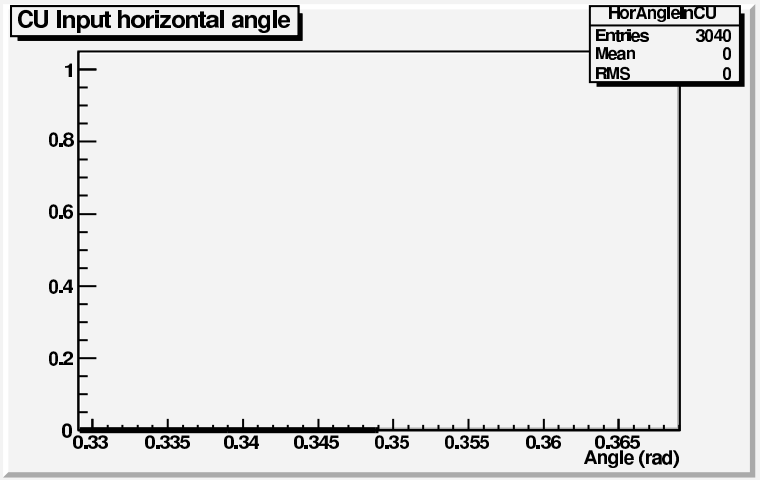

CU Input vertical angle
VertAngleInCU
Entries 4737
Mean 0.005293
RMS 0.001406
Angle (rad)

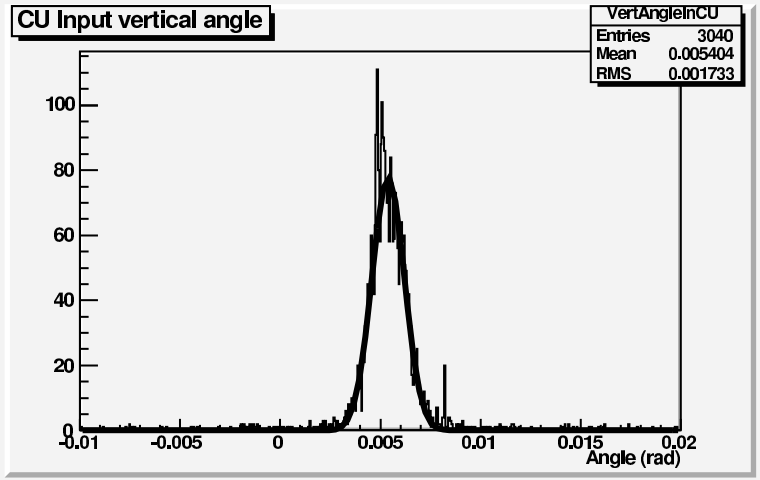

CU Input Beam Spot
SpotCoordInCU
Entries 4737
Mean x 394.7
Mean y 28.29
RMS x 0.8035
RMS y 1.499
Vertical Position (mm)
Horizontal Position (mm)

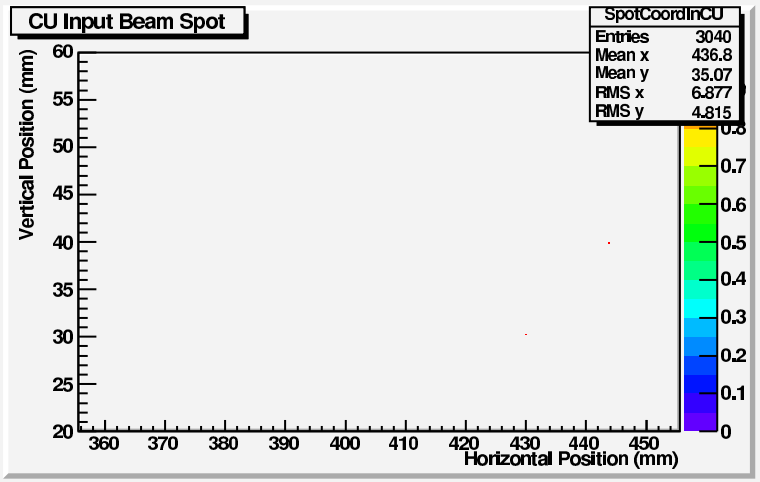

CU Input Beam Spot
SpotAngleInCU
Entries 4737
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

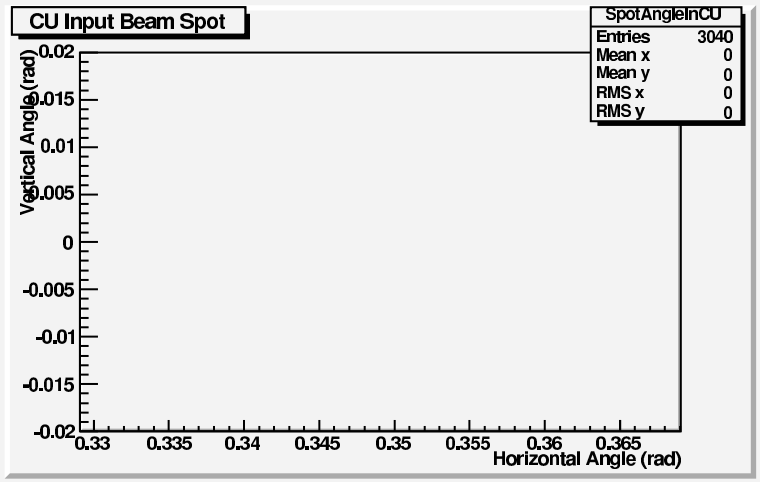

CU Input Horizontal coordinate
HorCoordInCU
Entries 3040
Mean 446.3
RMS 61.64
Position (mm)

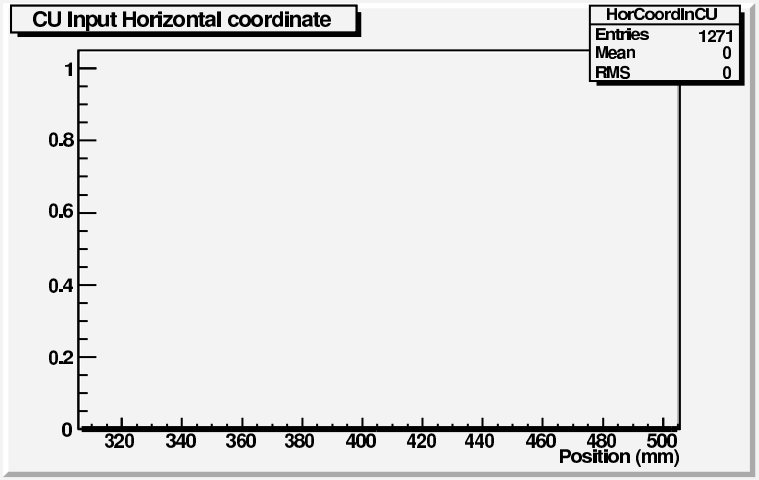

CU Input vertical coordinate
VertCoordInCU
Entries 3040
Mean 31.19
RMS 6.788
Position (mm)

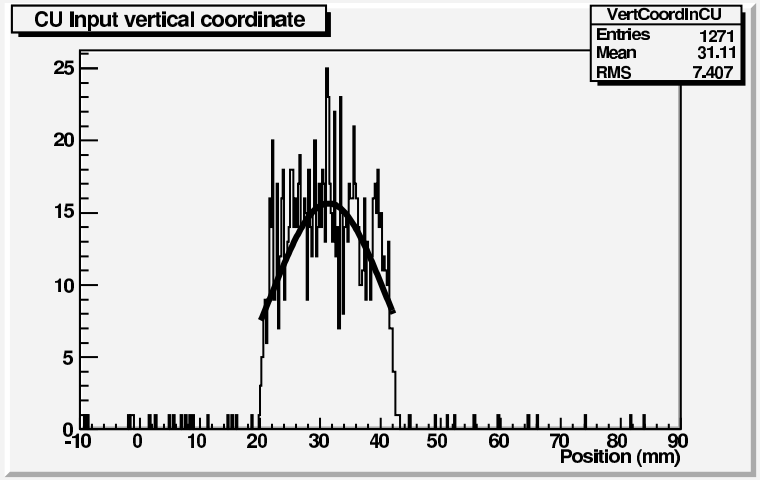

CU Input horizontal angle
HorAngleInCU
Entries 3040
Mean 0
RMS 0
Angle (rad)

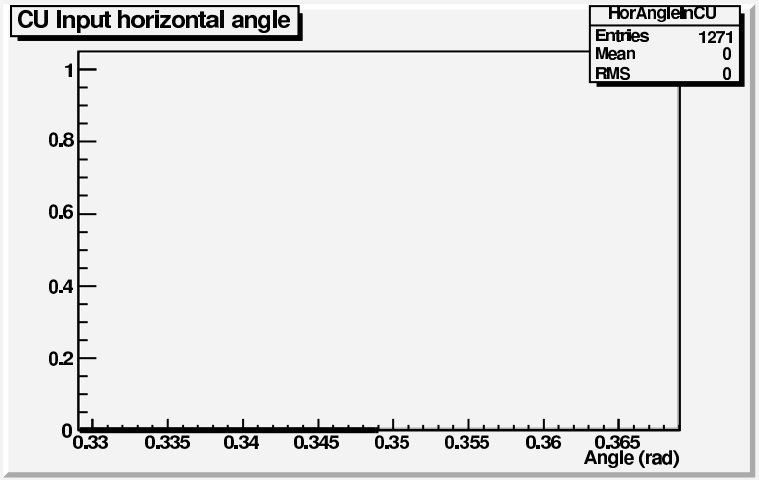

CU Input vertical angle
VertAngleInCU
Entries 3040
Mean 0.005404
RMS 0.001733
Angle (rad)

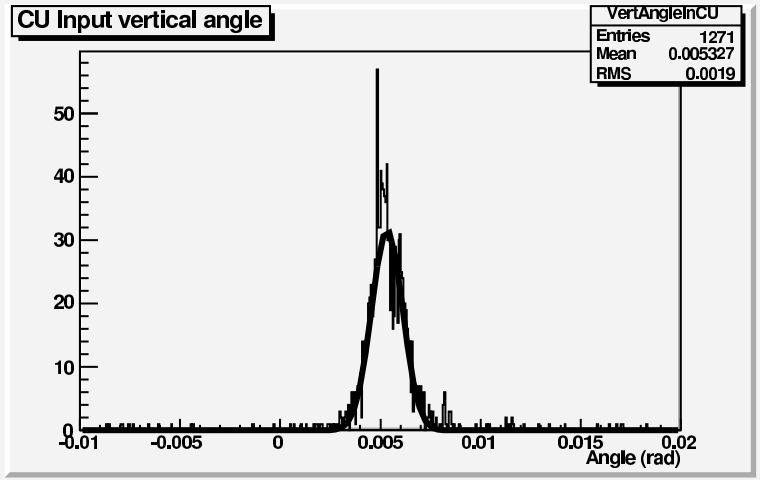

CU Input Beam Spot
SpotCoordInCU
Entries 3040
Mean x 436.8
Mean y 35.07
RMS x 6.877
RMS y 4.815
Vertical Position (mm)
Horizontal Position (mm)

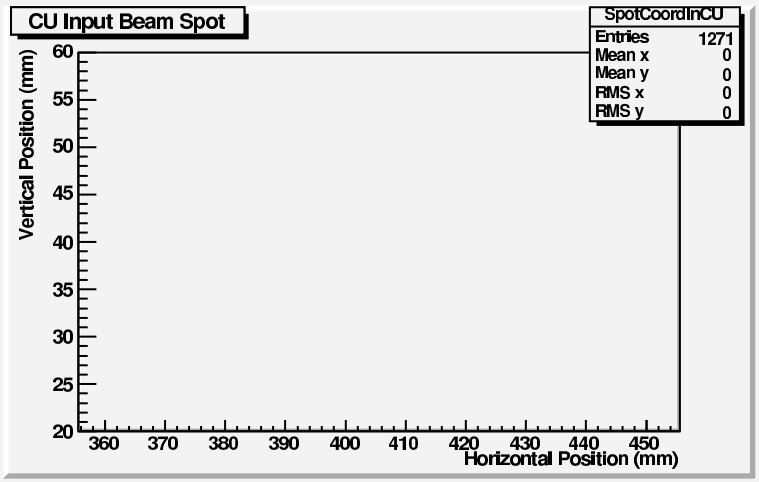

CU Input Beam Spot
SpotAngleInCU
Entries 3040
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

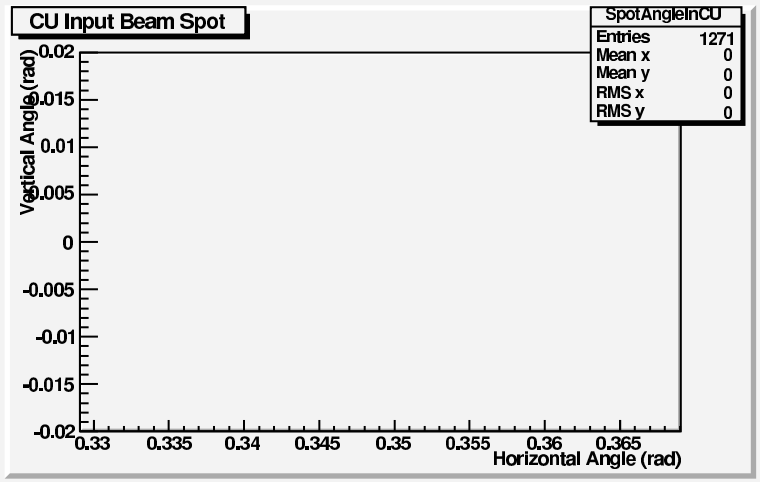

CU Input Horizontal coordinate
HorCoordInCU
Entries 1271
Mean 0
RMS 0
Position (mm)

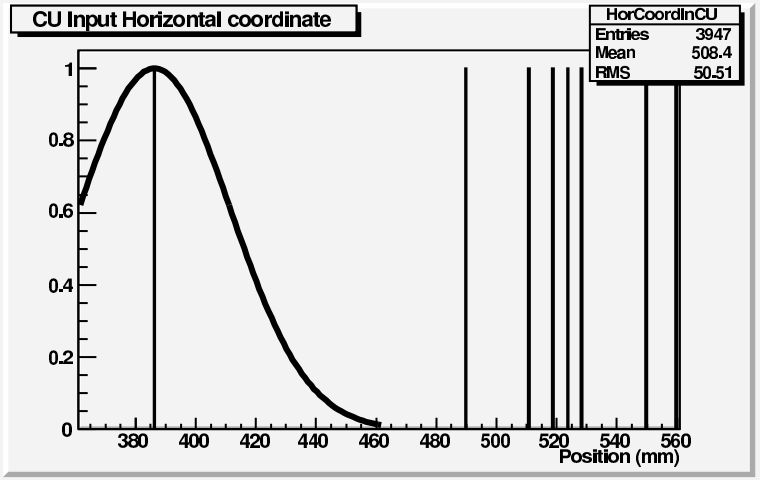

CU Input vertical coordinate
VertCoordInCU
Entries 1271
Mean 31.11
RMS 7.407
Position (mm)

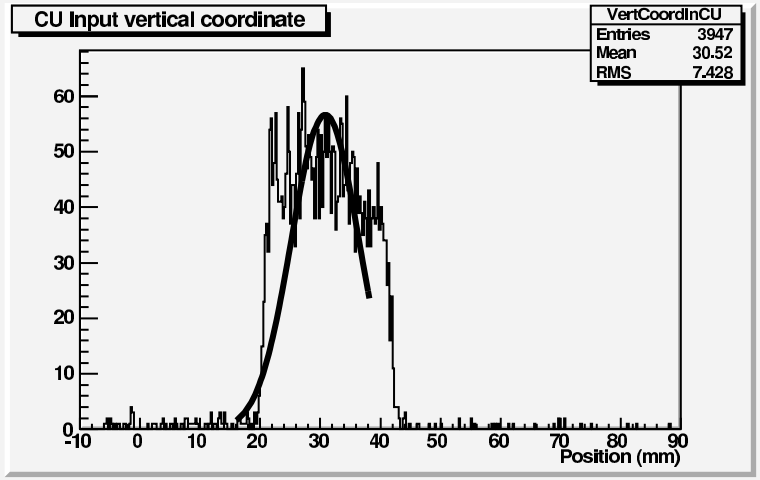

CU Input horizontal angle
HorAngleInCU
Entries 1271
Mean 0
RMS 0
Angle (rad)

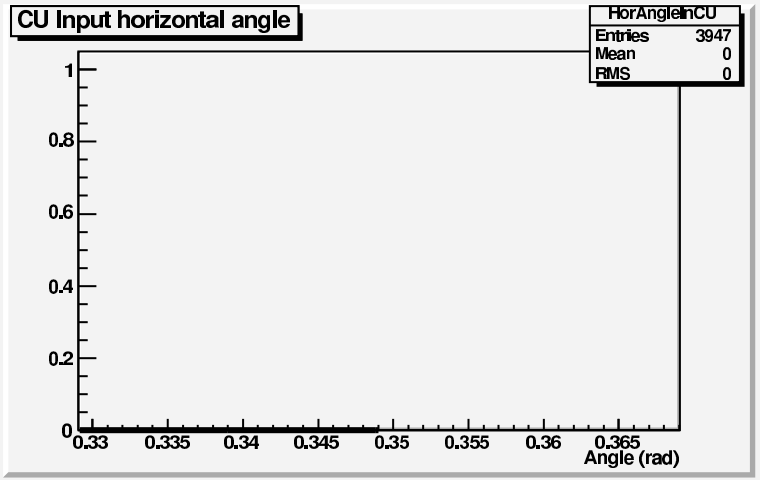

CU Input vertical angle
VertAngleInCU
Entries 1271
Mean 0.005327
RMS 0.0019
Angle (rad)

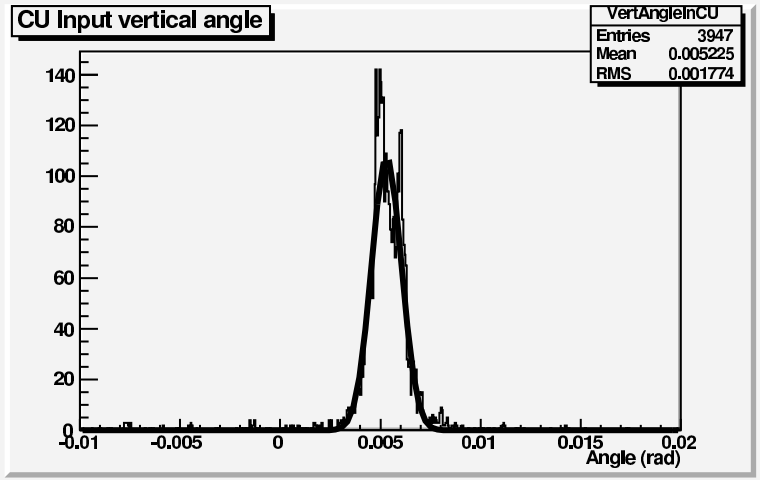

CU Input Beam Spot
SpotCoordInCU
Entries 1271
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Position (mm)
Horizontal Position (mm)

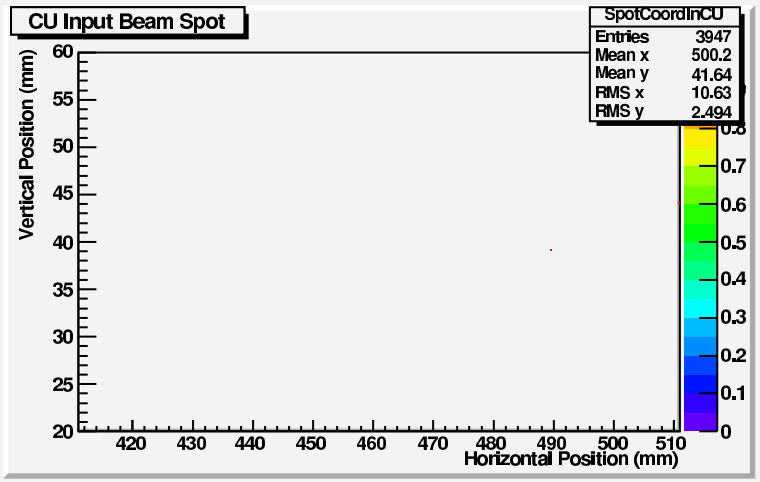

CU Input Beam Spot
SpotAngleInCU
Entries 1271
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

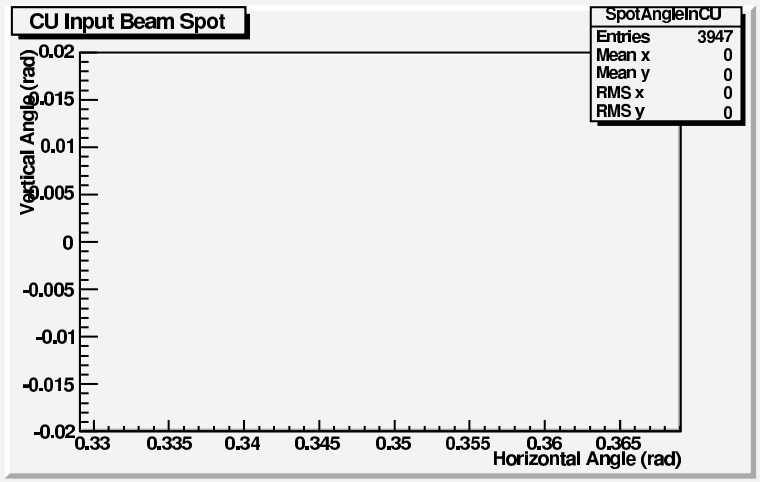

CU Input Horizontal coordinate
HorCoordInCU
Entries 3947
Mean 508.4
RMS 50.51
Position (mm)

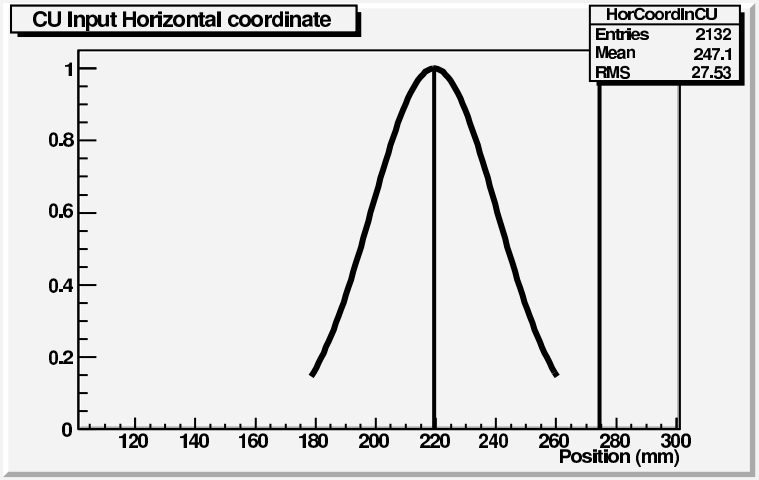

CU Input vertical coordinate
VertCoordInCU
Entries 3947
Mean 30.52
RMS 7.428
Position (mm)

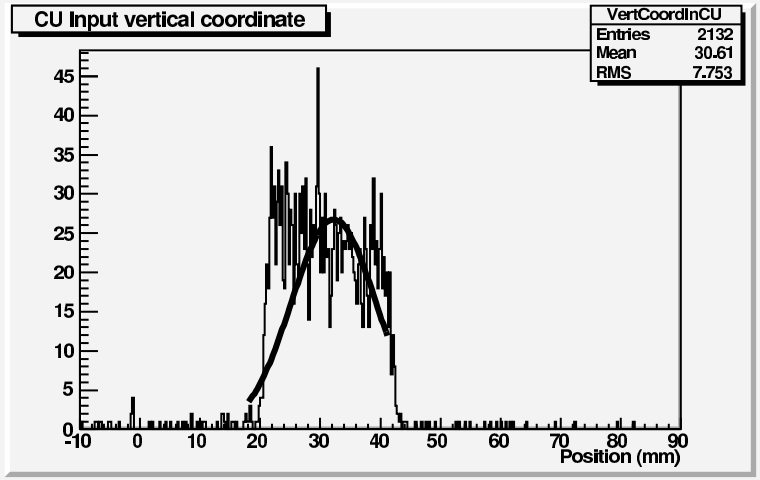

CU Input horizontal angle
HorAngleInCU
Entries 3947
Mean 0
RMS 0
Angle (rad)

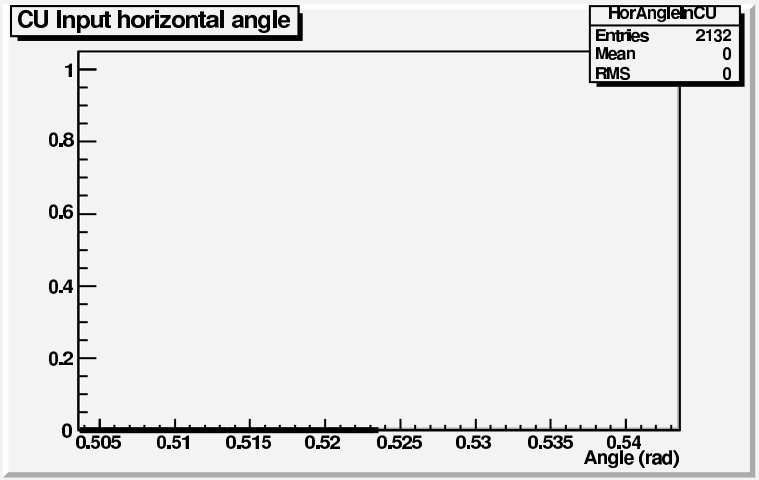

CU Input vertical angle
VertAngleInCU
Entries 3947
Mean 0.005225
RMS 0.001774
Angle (rad)

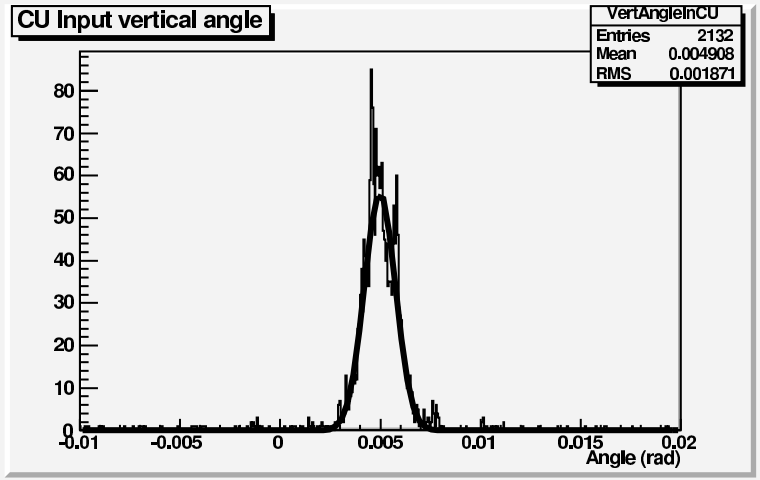

CU Input Beam Spot
SpotCoordInCU
Entries 3947
Mean x 500.2
Mean y 41.64
RMS x 10.63
RMS y 2.494
Vertical Position (mm)
Horizontal Position (mm)

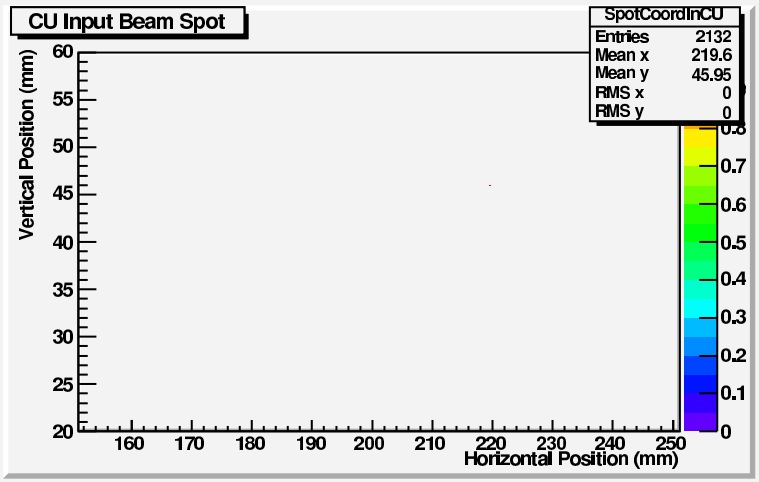

CU Input Beam Spot
SpotAngleInCU
Entries 3947
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

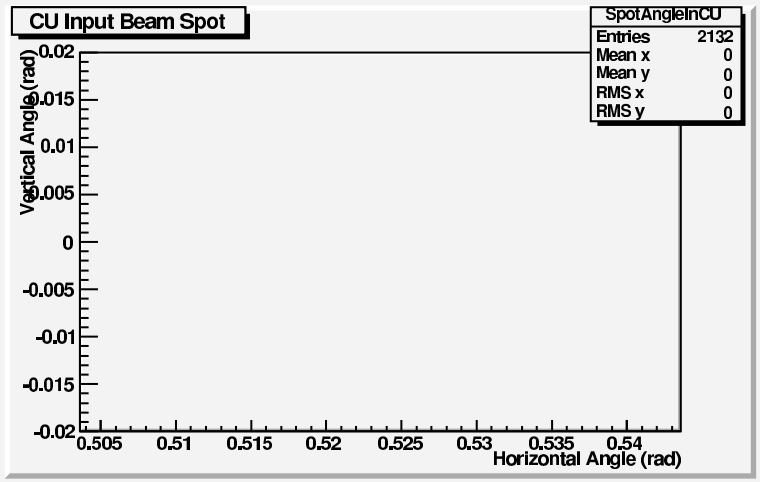

CU Input Horizontal coordinate
HorCoordInCU
Entries 2132
Mean 247.1
RMS 27.53
Position (mm)

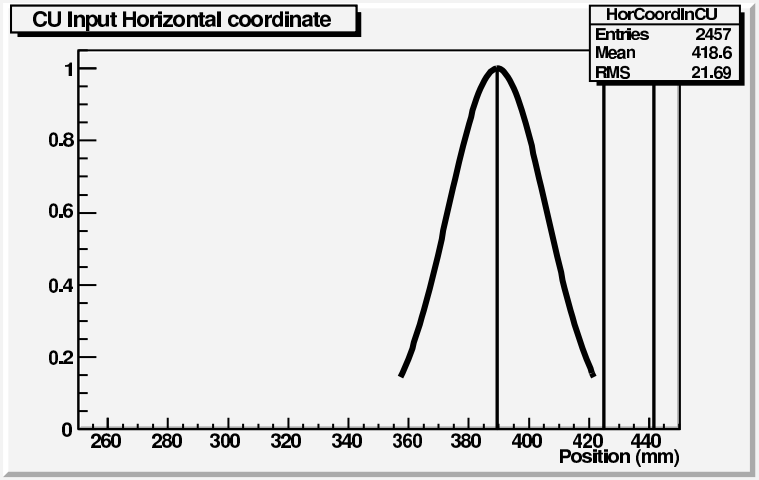

CU Input vertical coordinate
VertCoordInCU
Entries 2132
Mean 30.61
RMS 7.753
Position (mm)

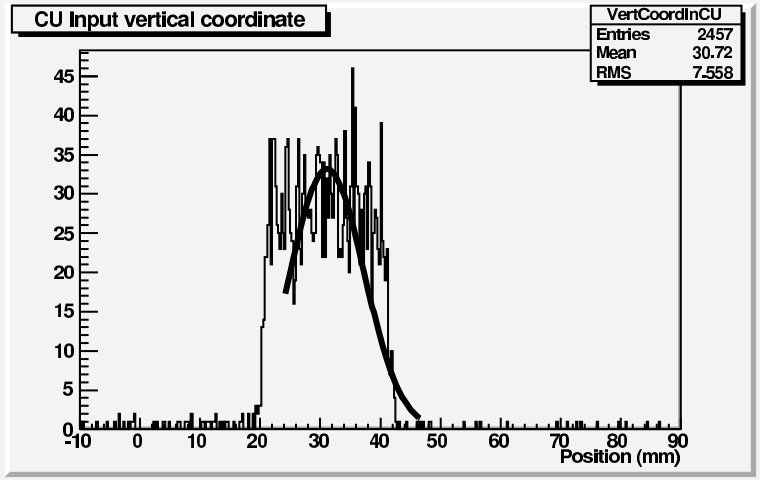

CU Input horizontal angle
HorAngleInCU
Entries 2132
Mean 0
RMS 0
Angle (rad)

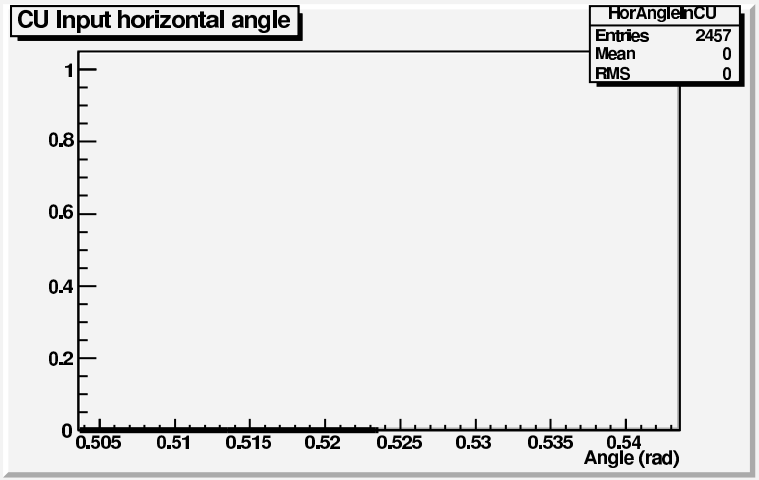

CU Input vertical angle
VertAngleInCU
Entries 2132
Mean 0.004908
RMS 0.001871
Angle (rad)

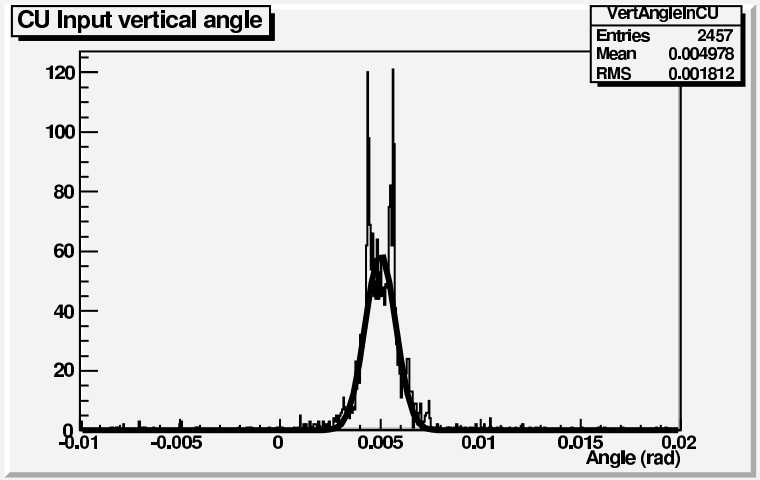

CU Input Beam Spot
SpotCoordInCU
Entries 2132
Mean x 219.6
Mean y 45.95
RMS x 0
RMS y 0
Vertical Position (mm)
Horizontal Position (mm)

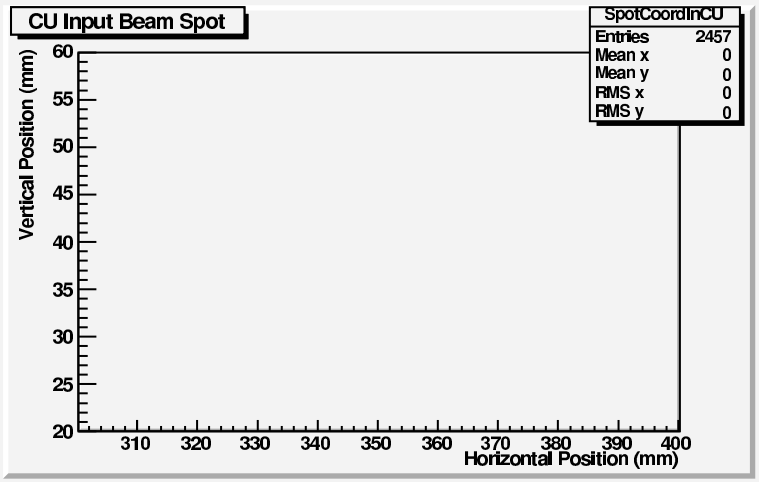

CU Input Beam Spot
SpotAngleInCU
Entries 2132
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

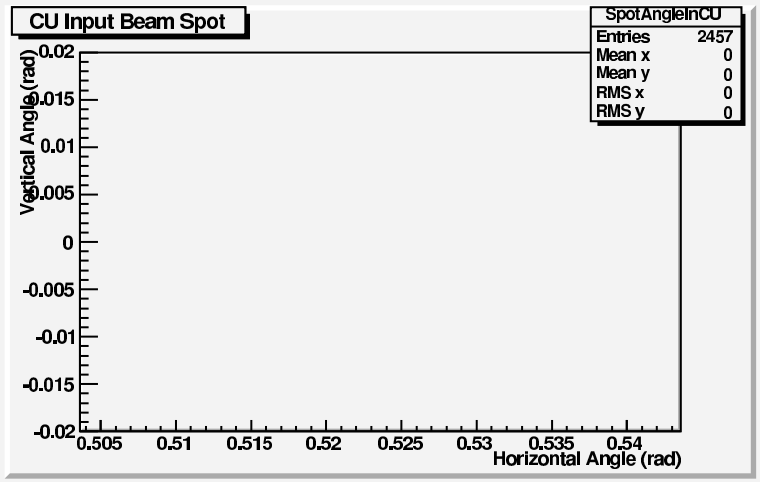

CU Input Horizontal coordinate
HorCoordInCU
Entries 2457
Mean 418.6
RMS 21.69
Position (mm)

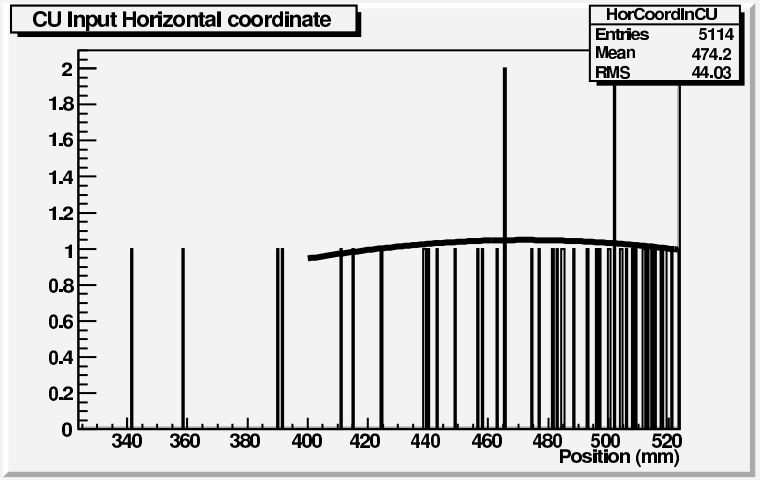

CU Input vertical coordinate
VertCoordInCU
Entries 2457
Mean 30.72
RMS 7.558
Position (mm)

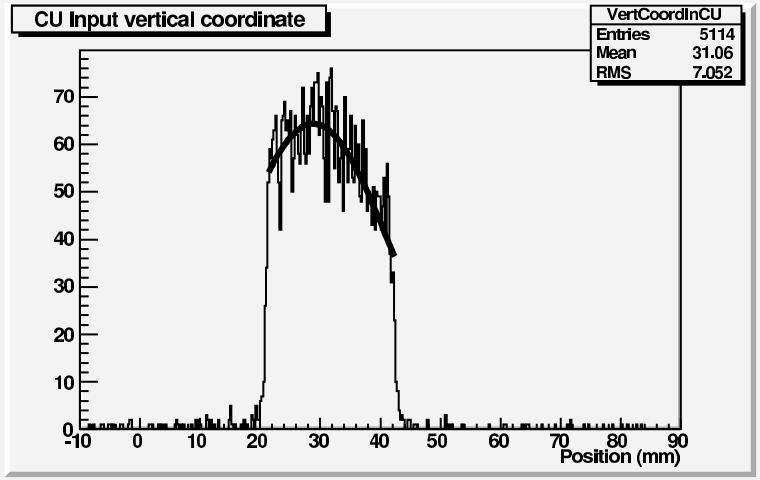

CU Input horizontal angle
HorAngleInCU
Entries 2457
Mean 0
RMS 0
Angle (rad)

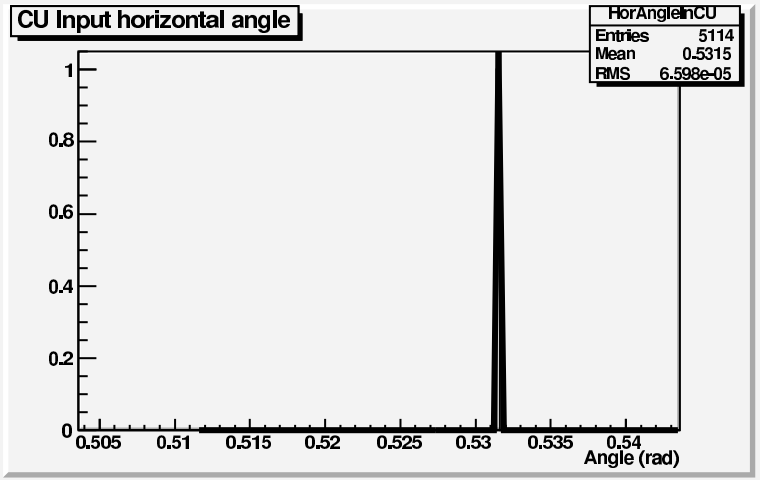

CU Input vertical angle
VertAngleInCU
Entries 2457
Mean 0.004978
RMS 0.001812
Angle (rad)

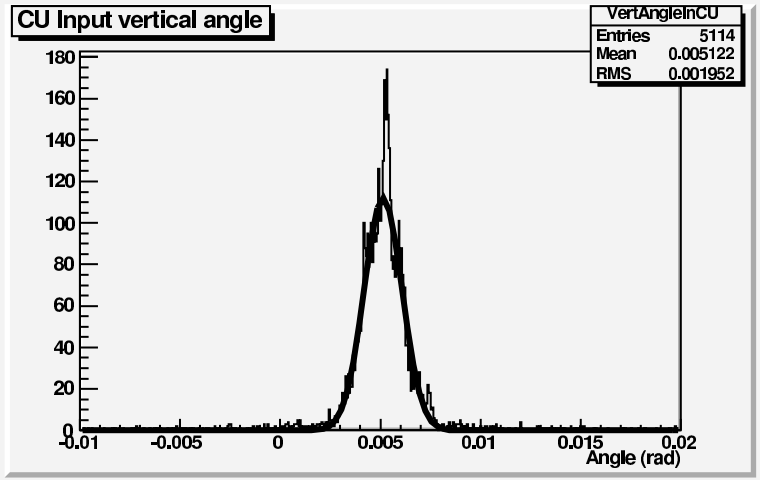

CU Input Beam Spot
SpotCoordInCU
Entries 2457
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Position (mm)
Horizontal Position (mm)

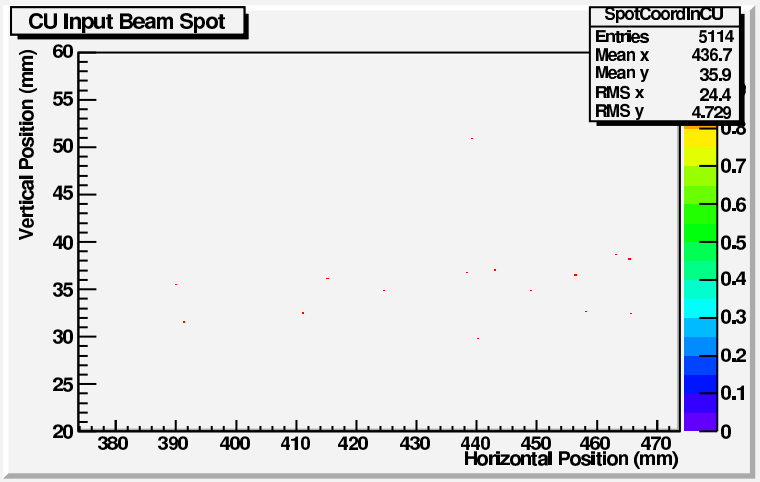

CU Input Beam Spot
SpotAngleInCU
Entries 2457
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

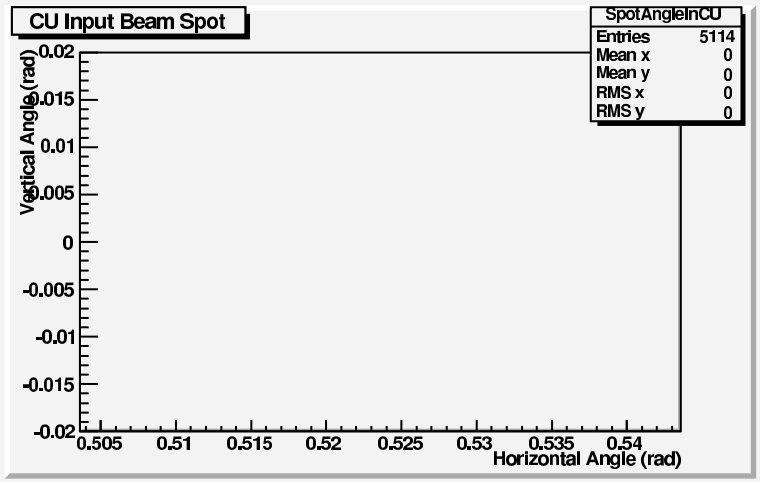

CU Input Horizontal coordinate
HorCoordInCU
Entries 5114
Mean 474.2
RMS 44.03
Position (mm)

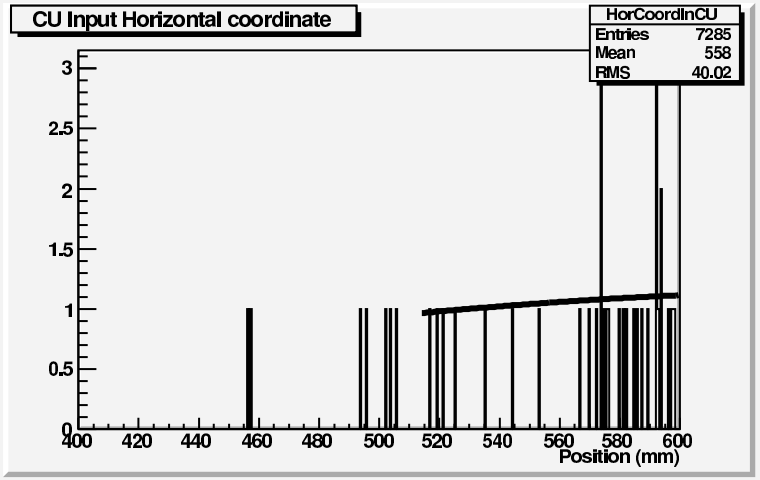

CU Input vertical coordinate
VertCoordInCU
Entries 5114
Mean 31.06
RMS 7.052
Position (mm)

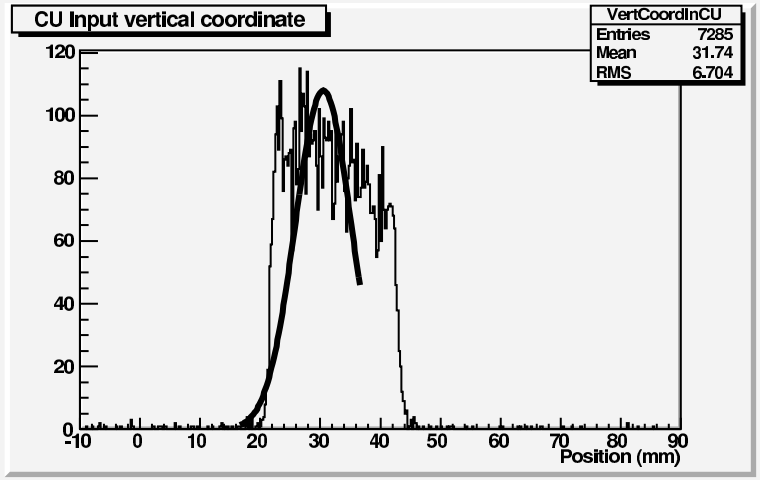

CU Input horizontal angle
HorAngleInCU
Entries 5114
Mean 0.5315
RMS 6.598e-05
Angle (rad)

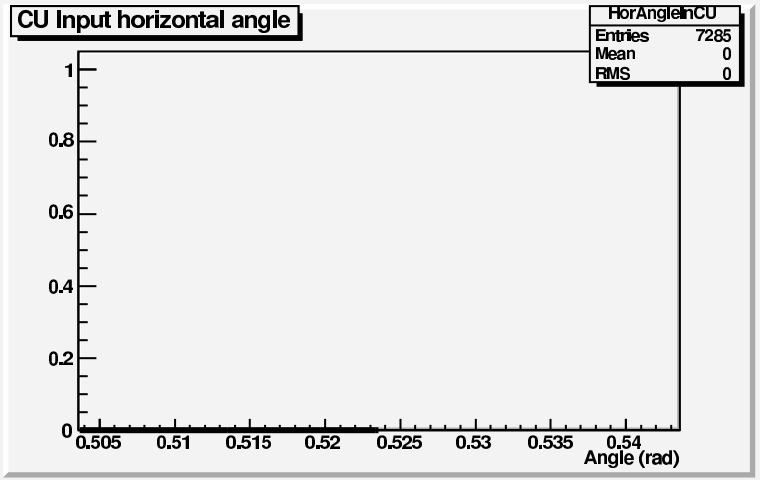

CU Input vertical angle
VertAngleInCU
Entries 5114
Mean 0.005122
RMS 0.001952
Angle (rad)

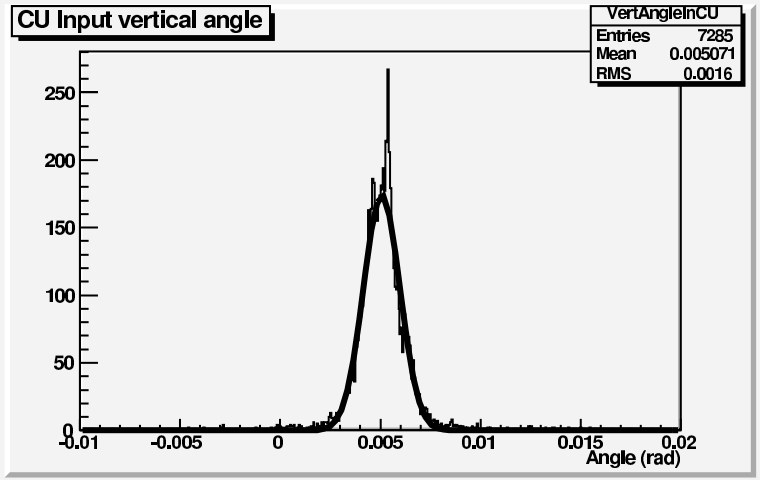

CU Input Beam Spot
SpotCoordInCU
Entries 5114
Mean x 436.7
Mean y 35.9
RMS x 24.4
RMS y 4.729
Vertical Position (mm)
Horizontal Position (mm)

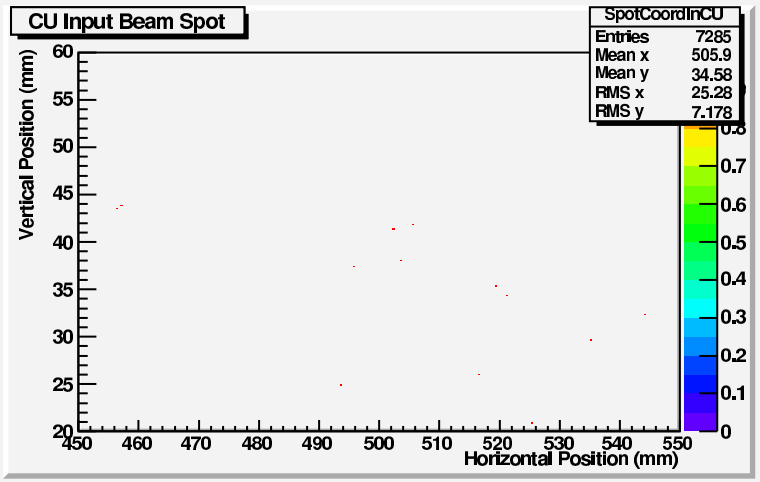

CU Input Beam Spot
SpotAngleInCU
Entries 5114
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

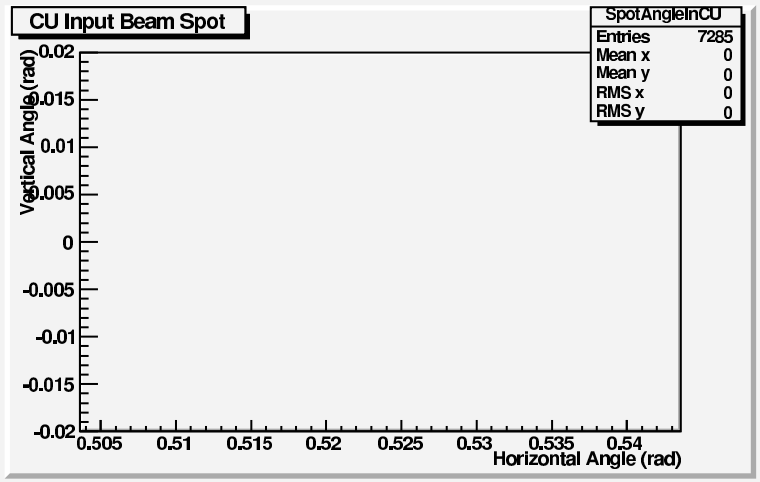

CU Input Horizontal coordinate
HorCoordInCU
Entries 7285
Mean 558
RMS 40.02
Position (mm)

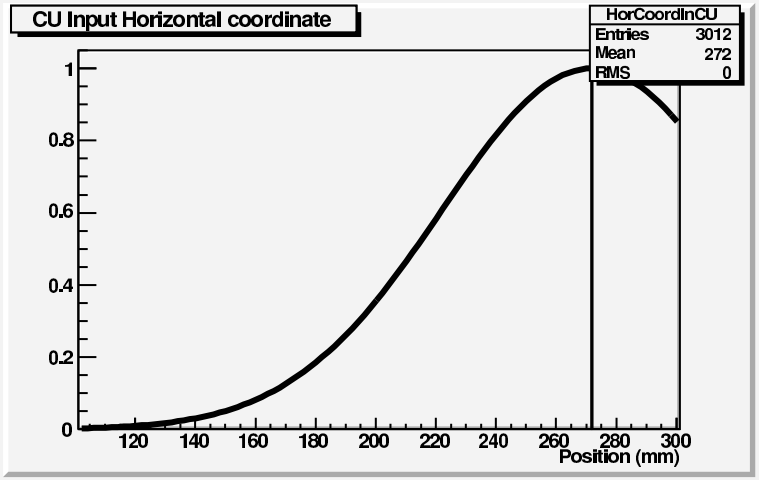

CU Input vertical coordinate
VertCoordInCU
Entries 7285
Mean 31.74
RMS 6.704
Position (mm)

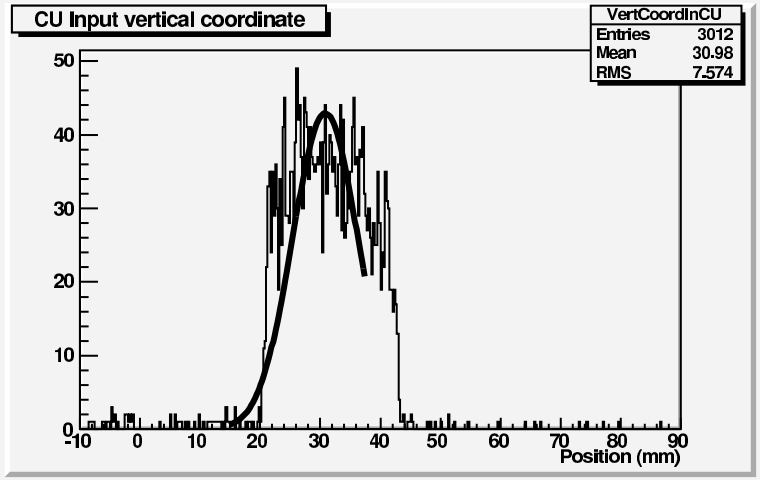

CU Input horizontal angle
HorAngleInCU
Entries 7285
Mean 0
RMS 0
Angle (rad)

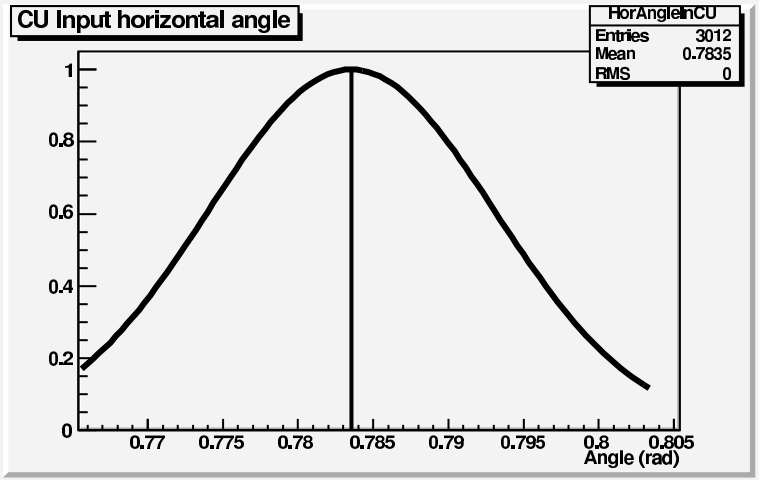

CU Input vertical angle
VertAngleInCU
Entries 7285
Mean 0.005071
RMS 0.0016
Angle (rad)

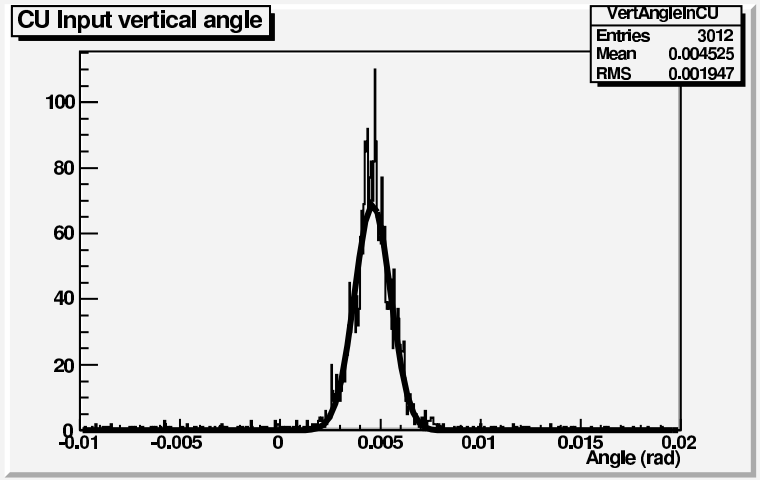

CU Input Beam Spot
SpotCoordInCU
Entries 7285
Mean x 505.9
Mean y 34.58
RMS x 25.28
RMS y 7.178
Vertical Position (mm)
Horizontal Position (mm)

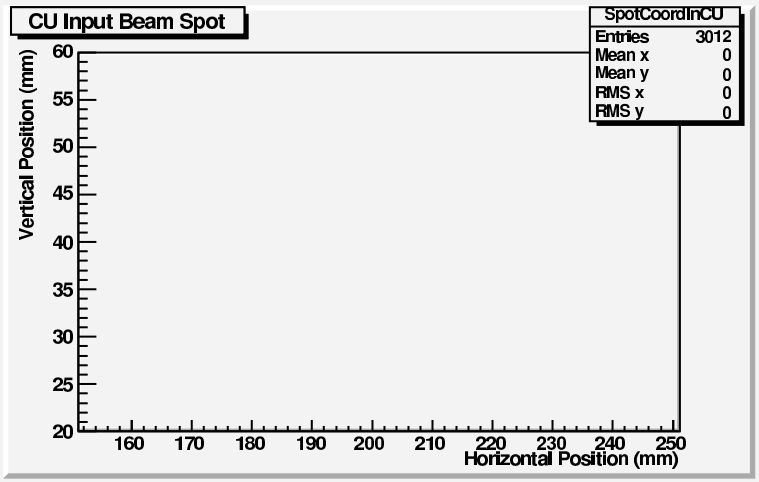

CU Input Beam Spot
SpotAngleInCU
Entries 7285
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

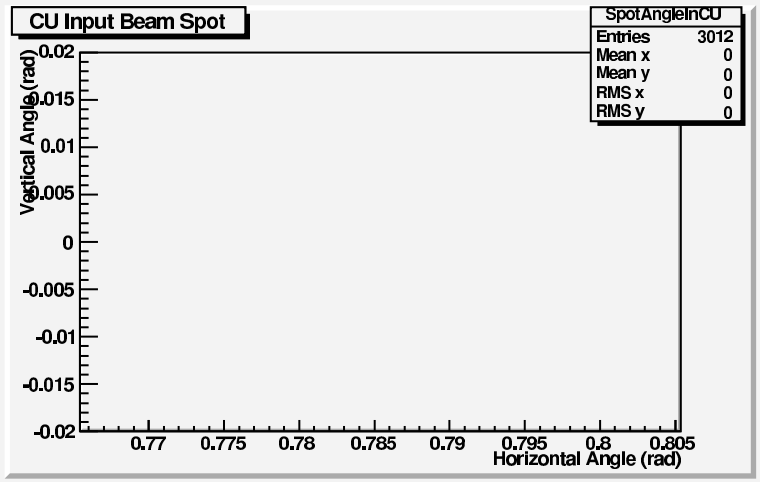

CU Input Horizontal coordinate
HorCoordInCU
Entries 3012
Mean 272
RMS 0
Position (mm)

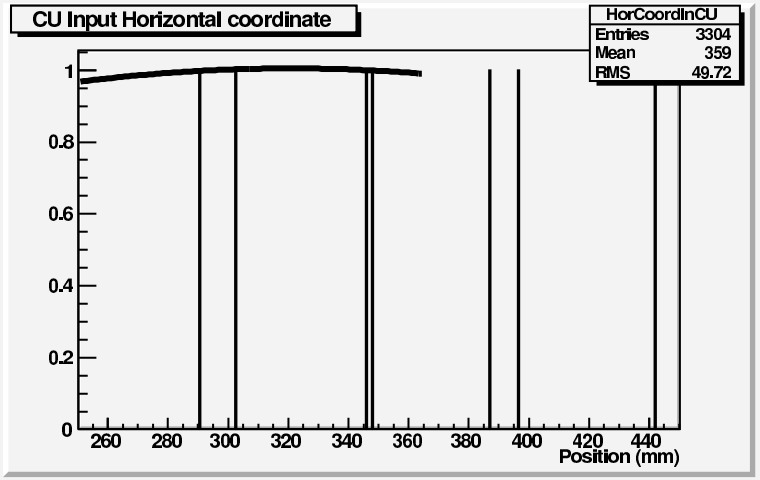

CU Input vertical coordinate
VertCoordInCU
Entries 3012
Mean 30.98
RMS 7.574
Position (mm)

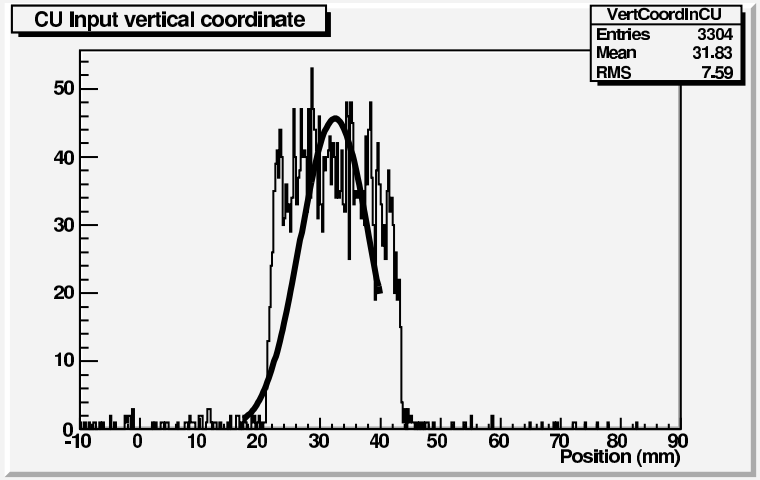

CU Input horizontal angle
HorAngleInCU
Entries 3012
Mean 0.7835
RMS 0
Angle (rad)

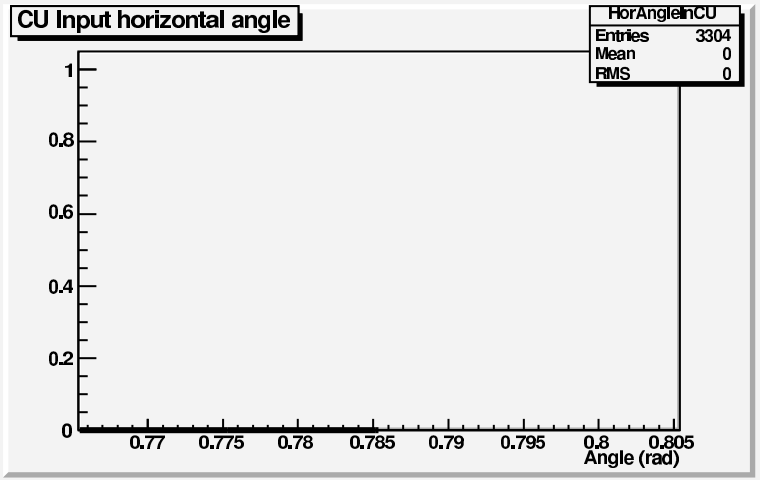

CU Input vertical angle
VertAngleInCU
Entries 3012
Mean 0.004525
RMS 0.001947
Angle (rad)

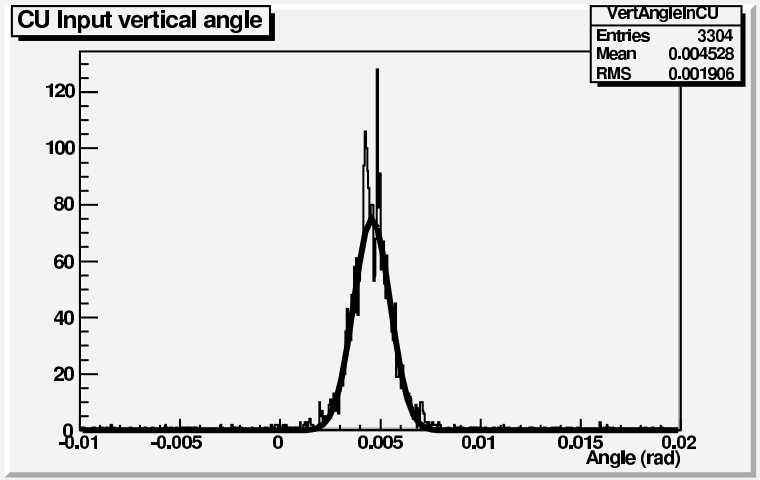

CU Input Beam Spot
SpotCoordInCU
Entries 3012
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Position (mm)
Horizontal Position (mm)

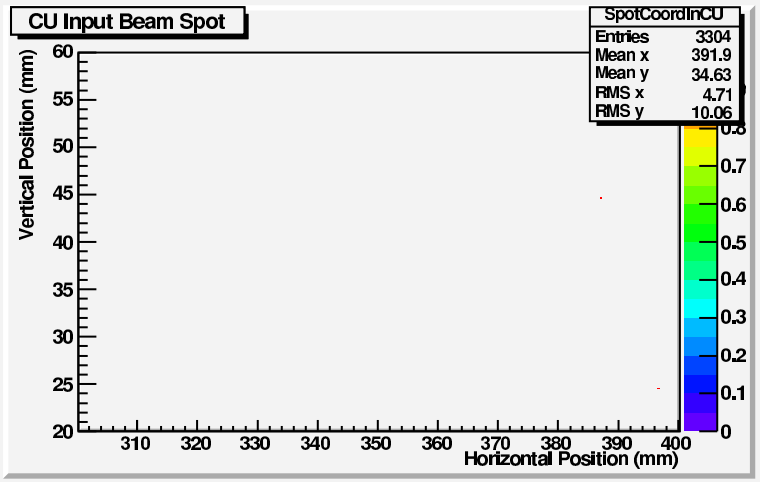

CU Input Beam Spot
SpotAngleInCU
Entries 3012
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

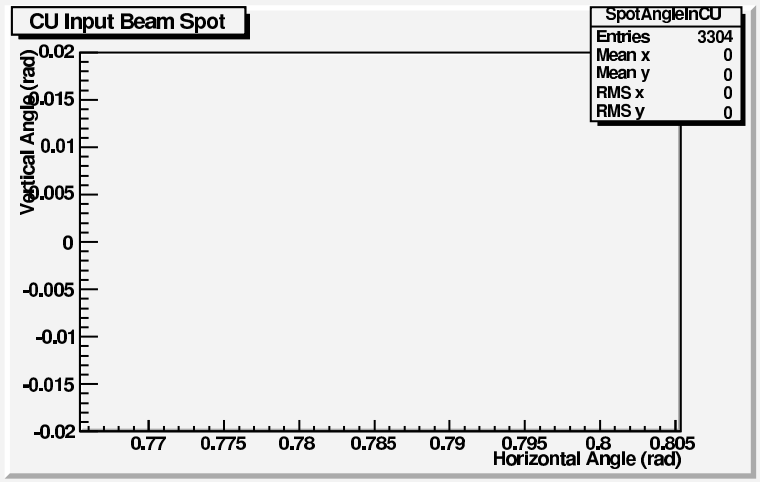

CU Input Horizontal coordinate
HorCoordInCU
Entries 3304
Mean 359
RMS 49.72
Position (mm)

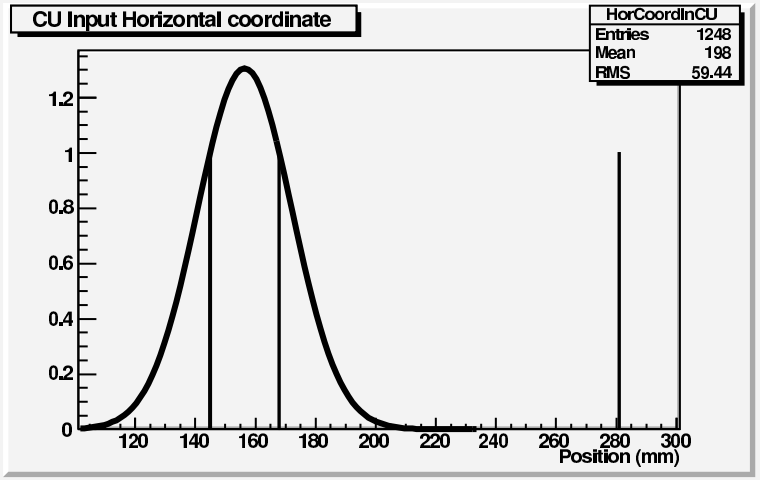

CU Input vertical coordinate
VertCoordInCU
Entries 3304
Mean 31.83
RMS 7.59
Position (mm)

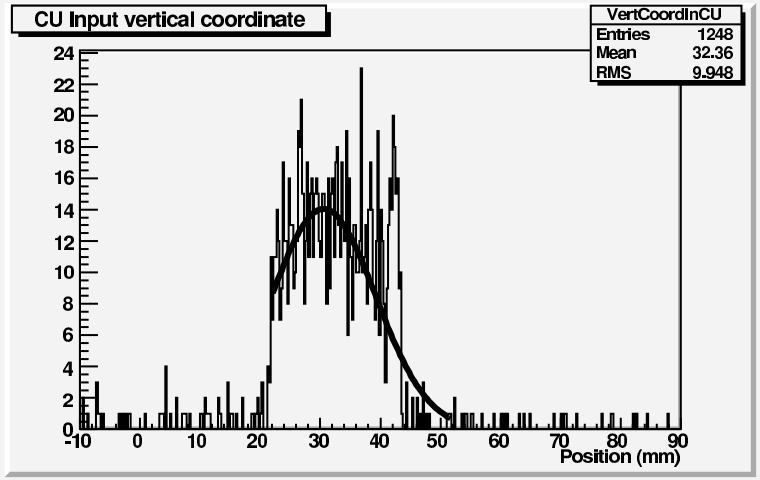

CU Input horizontal angle
HorAngleInCU
Entries 3304
Mean 0
RMS 0
Angle (rad)

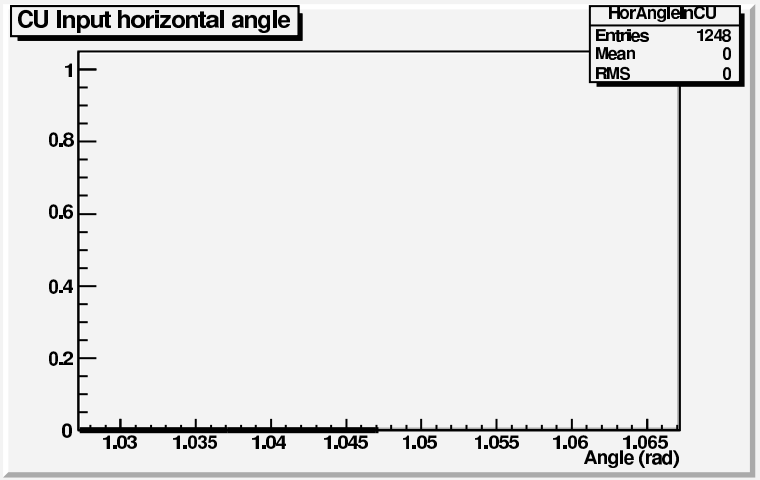

CU Input vertical angle
VertAngleInCU
Entries 3304
Mean 0.004528
RMS 0.001906
Angle (rad)

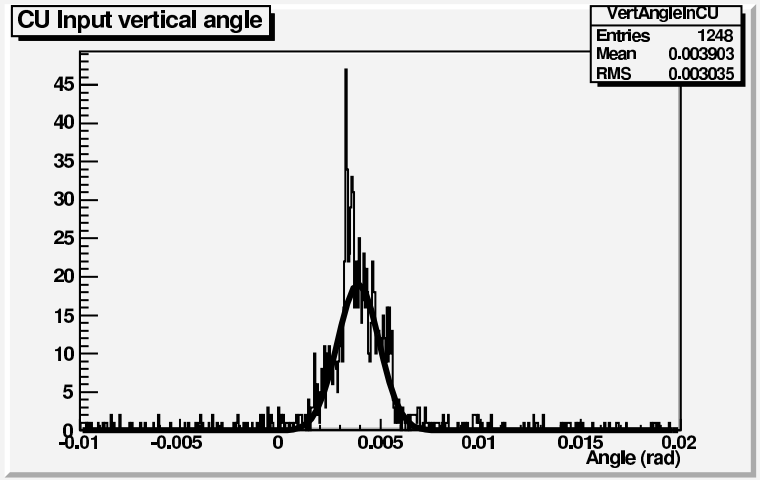

CU Input Beam Spot
SpotCoordInCU
Entries 3304
Mean x 391.9
Mean y 34.63
RMS x 4.71
RMS y 10.06
Vertical Position (mm)
Horizontal Position (mm)

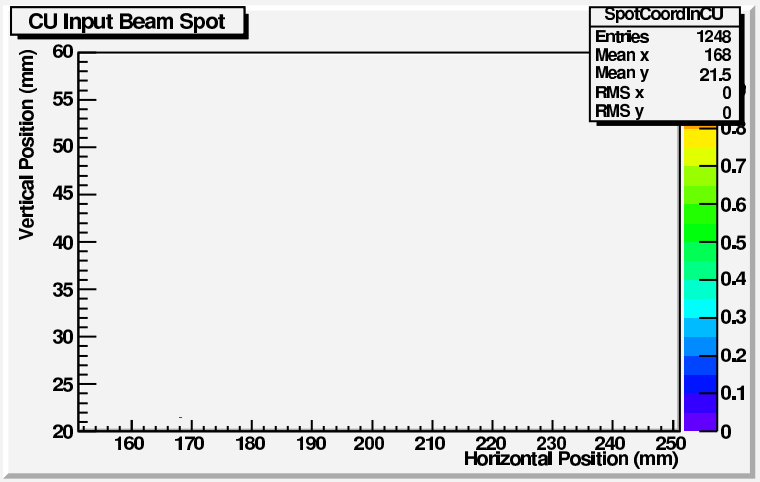

CU Input Beam Spot
SpotAngleInCU
Entries 3304
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

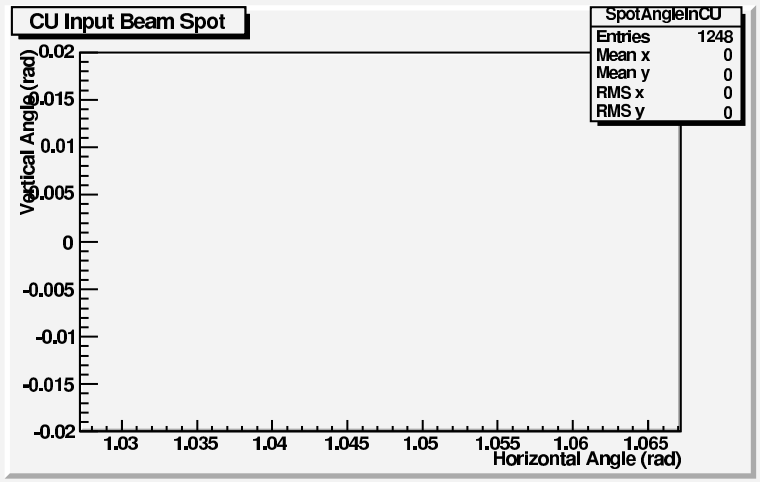

CU Input Horizontal coordinate
HorCoordInCU
Entries 1248
Mean 198
RMS 59.44
Position (mm)

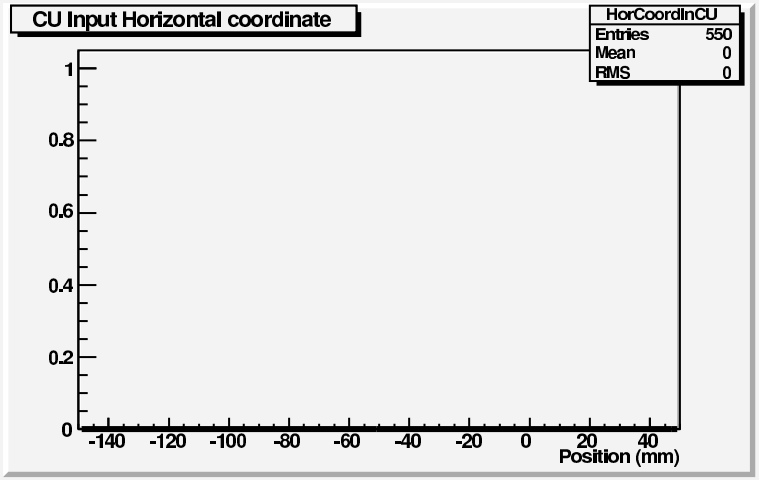

CU Input vertical coordinate
VertCoordInCU
Entries 1248
Mean 32.36
RMS 9.948
Position (mm)

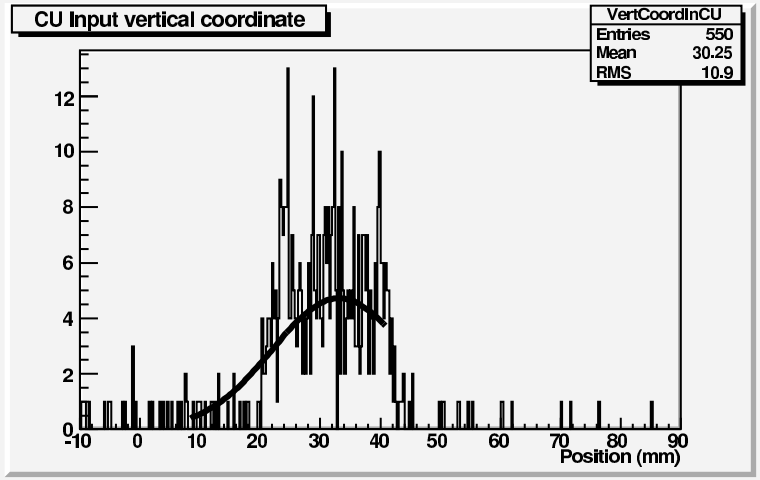

CU Input horizontal angle
HorAngleInCU
Entries 1248
Mean 0
RMS 0
Angle (rad)

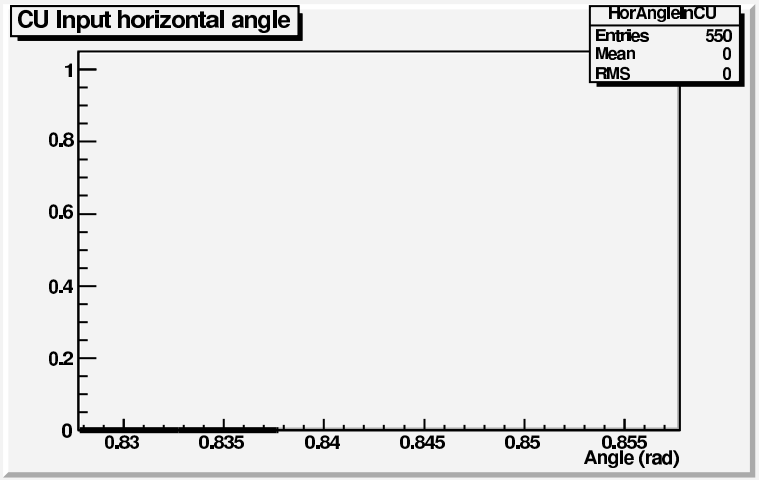

CU Input vertical angle
VertAngleInCU
Entries 1248
Mean 0.003903
RMS 0.003035
Angle (rad)

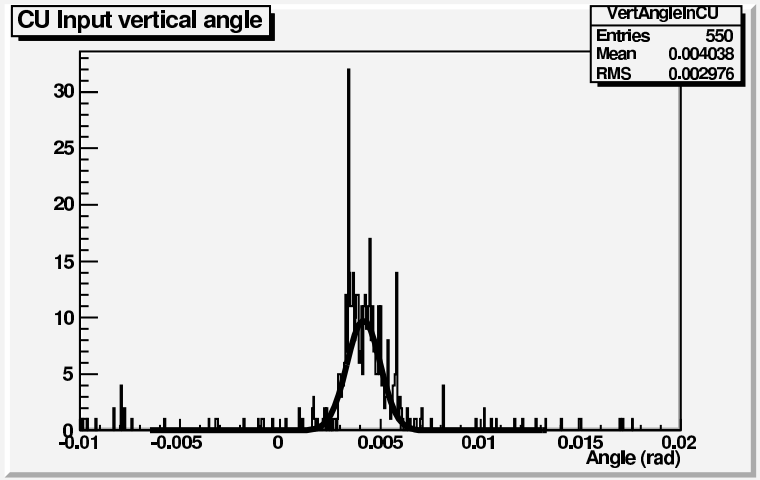

CU Input Beam Spot
SpotCoordInCU
Entries 1248
Mean x 168
Mean y 21.5
RMS x 0
RMS y 0
Vertical Position (mm)
Horizontal Position (mm)

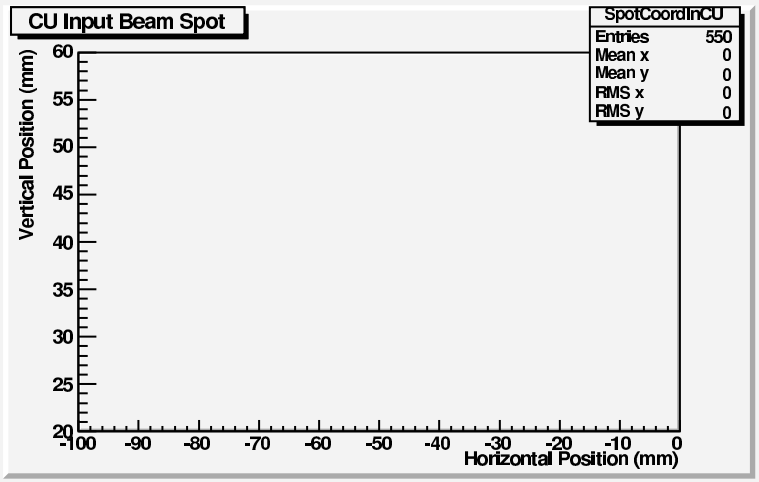

CU Input Beam Spot
SpotAngleInCU
Entries 1248
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

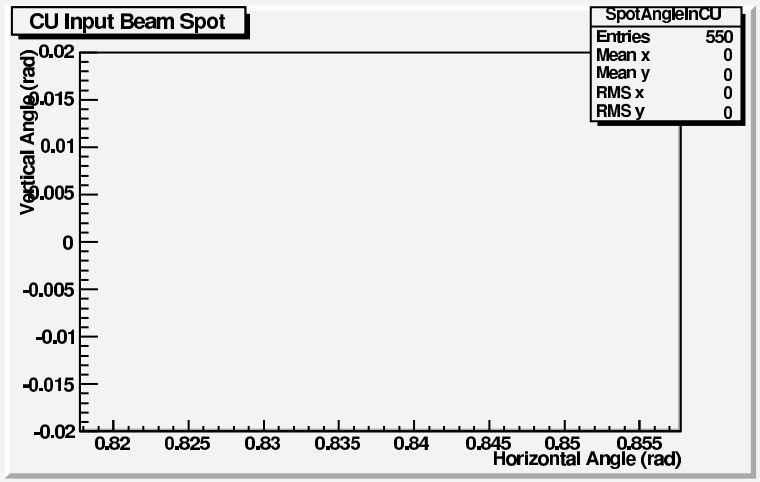

CU Input Horizontal coordinate
HorCoordInCU
Entries 550
Mean 0
RMS 0
Position (mm)

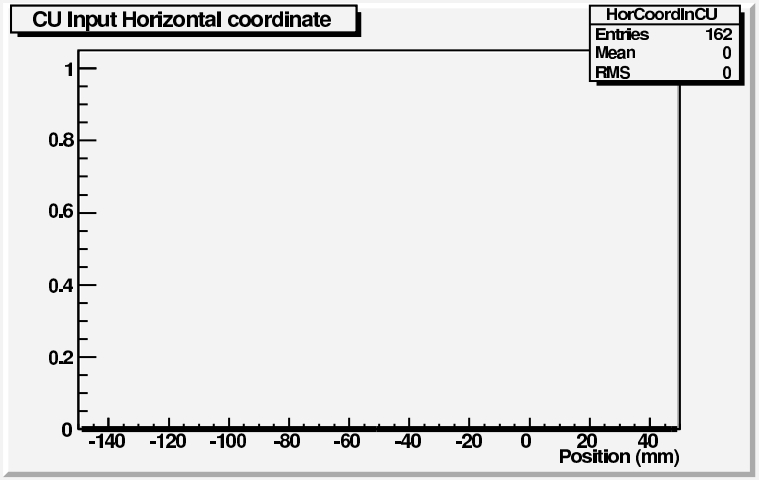

CU Input vertical coordinate
VertCoordInCU
Entries 550
Mean 30.25
RMS 10.9
Position (mm)

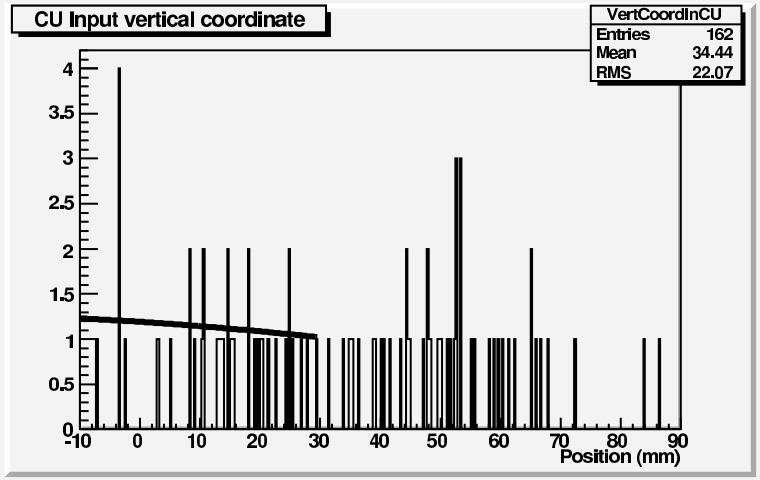

CU Input horizontal angle
HorAngleInCU
Entries 550
Mean 0
RMS 0
Angle (rad)

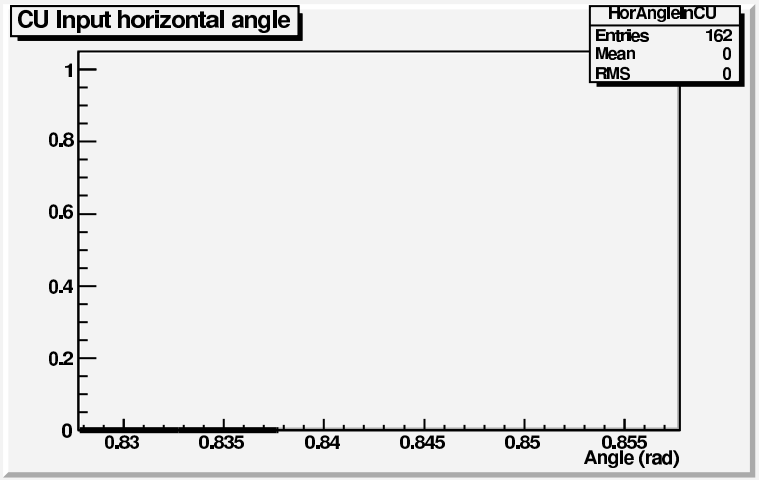

CU Input vertical angle
VertAngleInCU
Entries 550
Mean 0.004038
RMS 0.002976
Angle (rad)

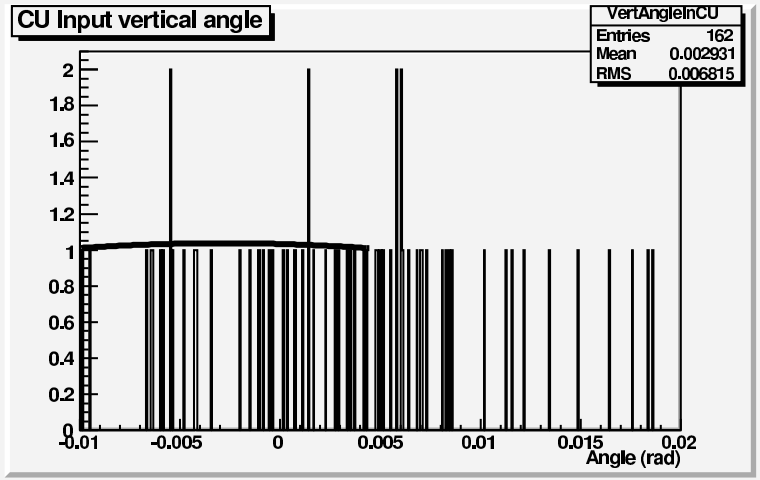

CU Input Beam Spot
SpotCoordInCU
Entries 550
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Position (mm)
Horizontal Position (mm)

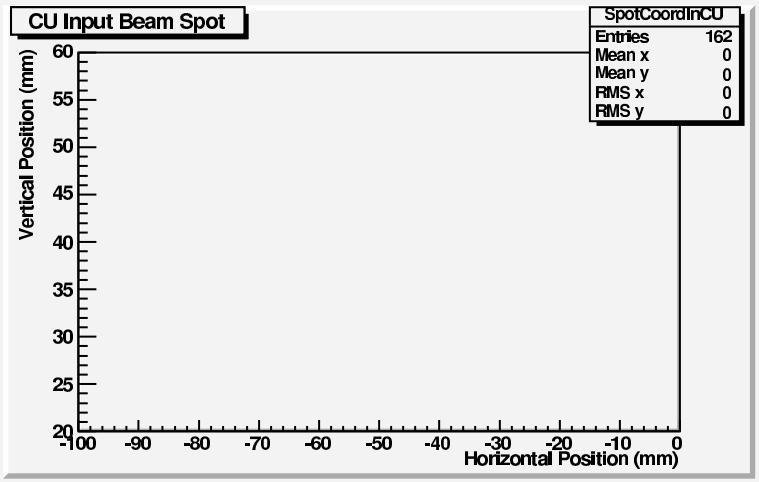

CU Input Beam Spot
SpotAngleInCU
Entries 550
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)

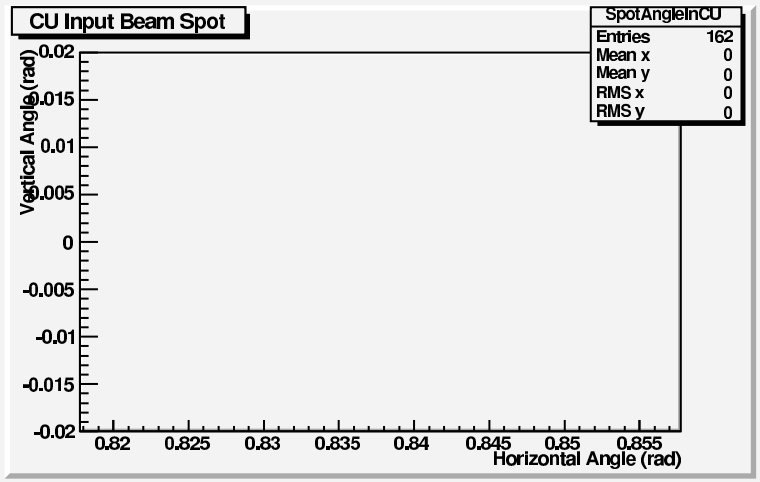

CU Input Horizontal coordinate
HorCoordInCU
Entries 162
Mean 0
RMS 0
Position (mm)


CU Input vertical coordinate
VertCoordInCU
Entries 162
Mean 34.44
RMS 22.07
Position (mm)


CU Input horizontal angle
HorAngleInCU
Entries 162
Mean 0
RMS 0
Angle (rad)


CU Input vertical angle
VertAngleInCU
Entries 162
Mean 0.002931
RMS 0.006815
Angle (rad)


CU Input Beam Spot
SpotCoordInCU
Entries 162
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Position (mm)
Horizontal Position (mm)


CU Input Beam Spot
SpotAngleInCU
Entries 162
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Vertical Angle (rad)
Horizontal Angle (rad)