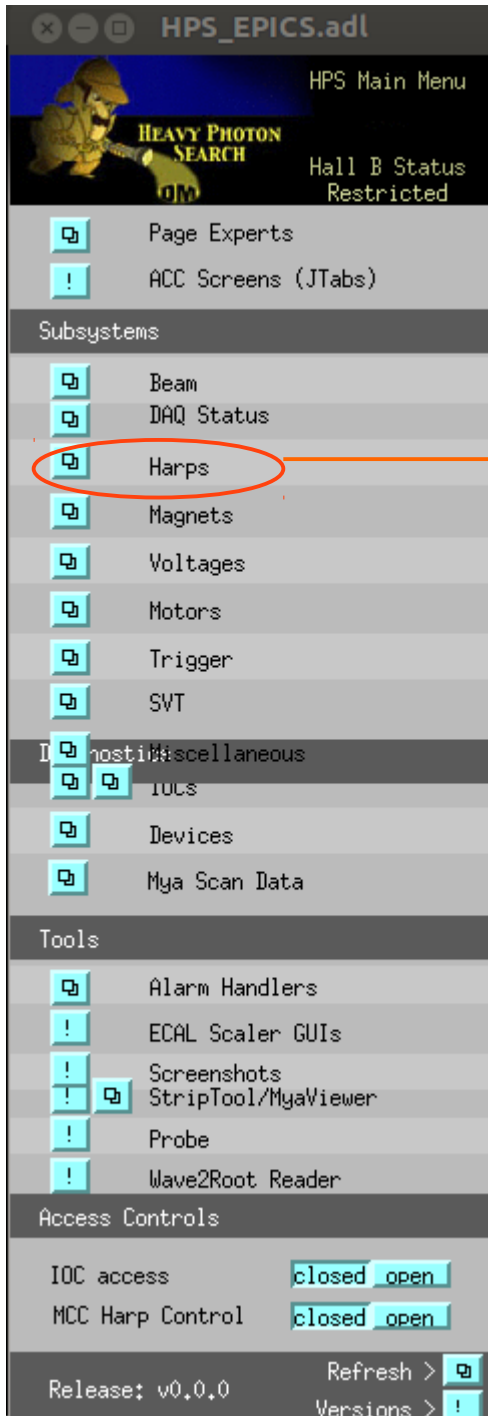
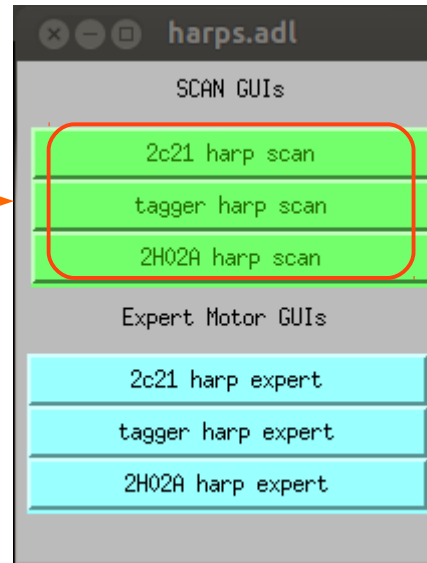


Harp Fitter



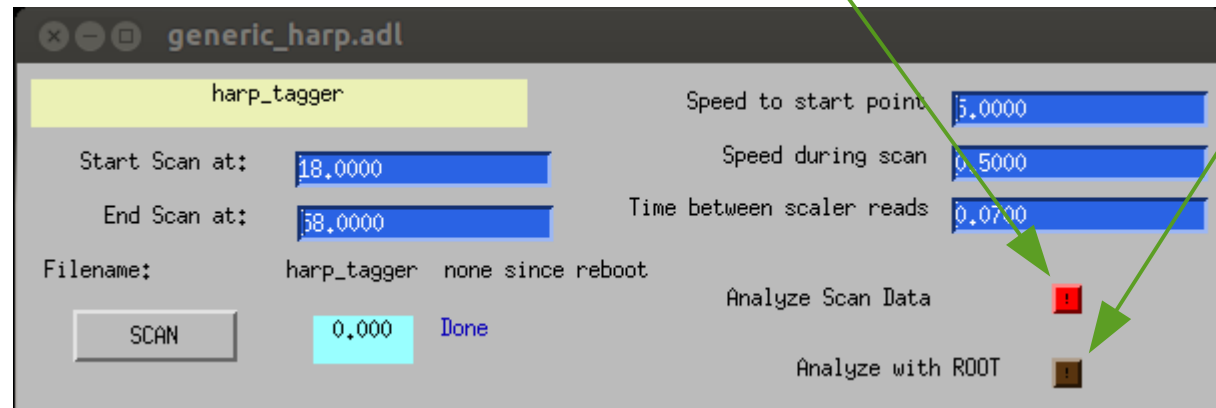
Choose desired harp



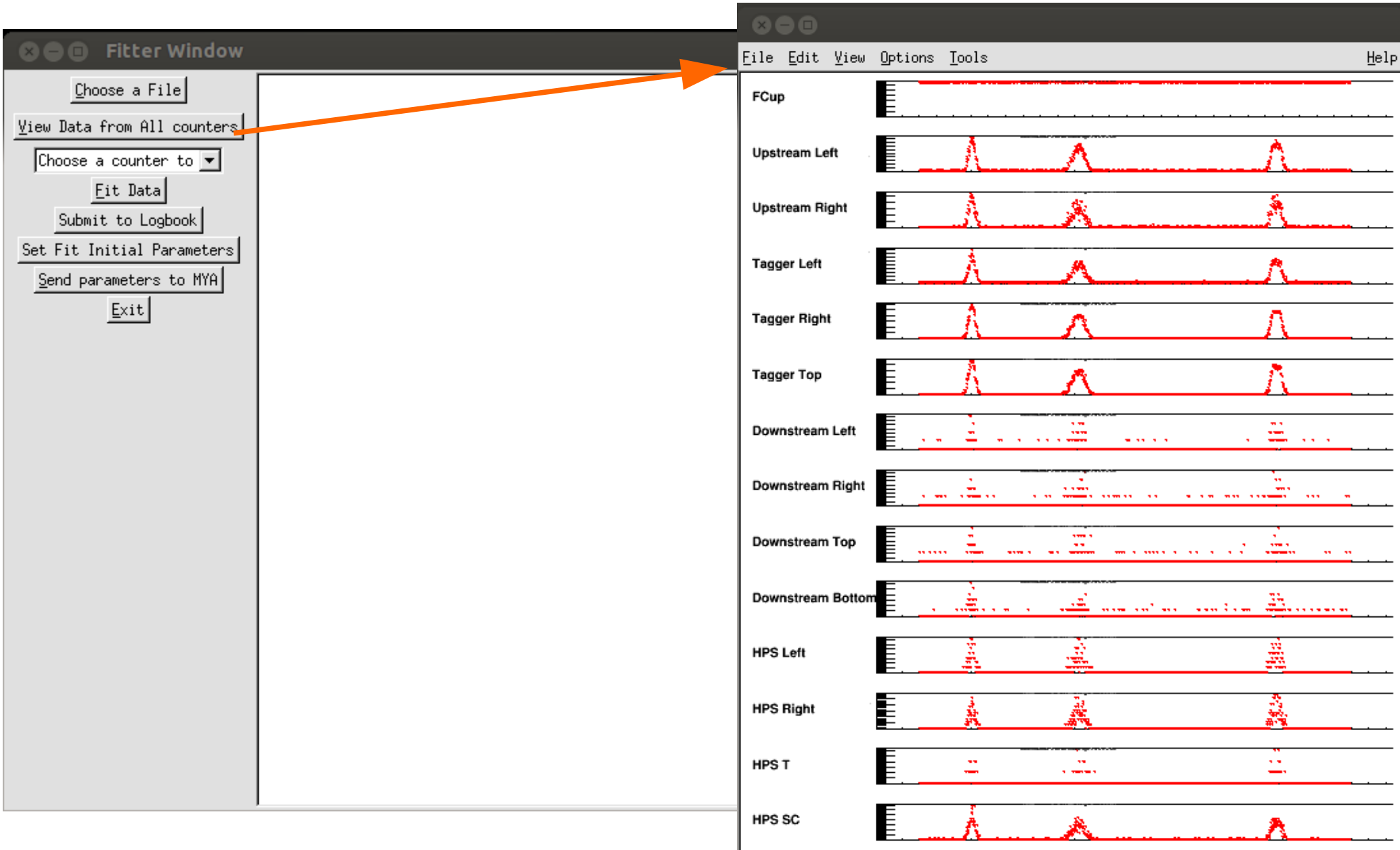
Choose the desired fitter

Java Analyzer

ROOT Analyzer



As in Java Fitter, before the fit you can look all counters, and chose the one that looks best



Choose the desired counter to Fit

Fitter Window

Choose a File

View Data from All counters

Choose a counter to

- Upstream Right
- Tagger Left
- Tagger Right
- Tagger Top
- Downstream Left
- Downstream Right
- Downstream Top

Submit Exit

Fitter Window

Choose a File

View Data from All counters

Tagger Right

Fit Data

Submit to Logbook

Set Fit Initial Parameters

Send parameters to MYA

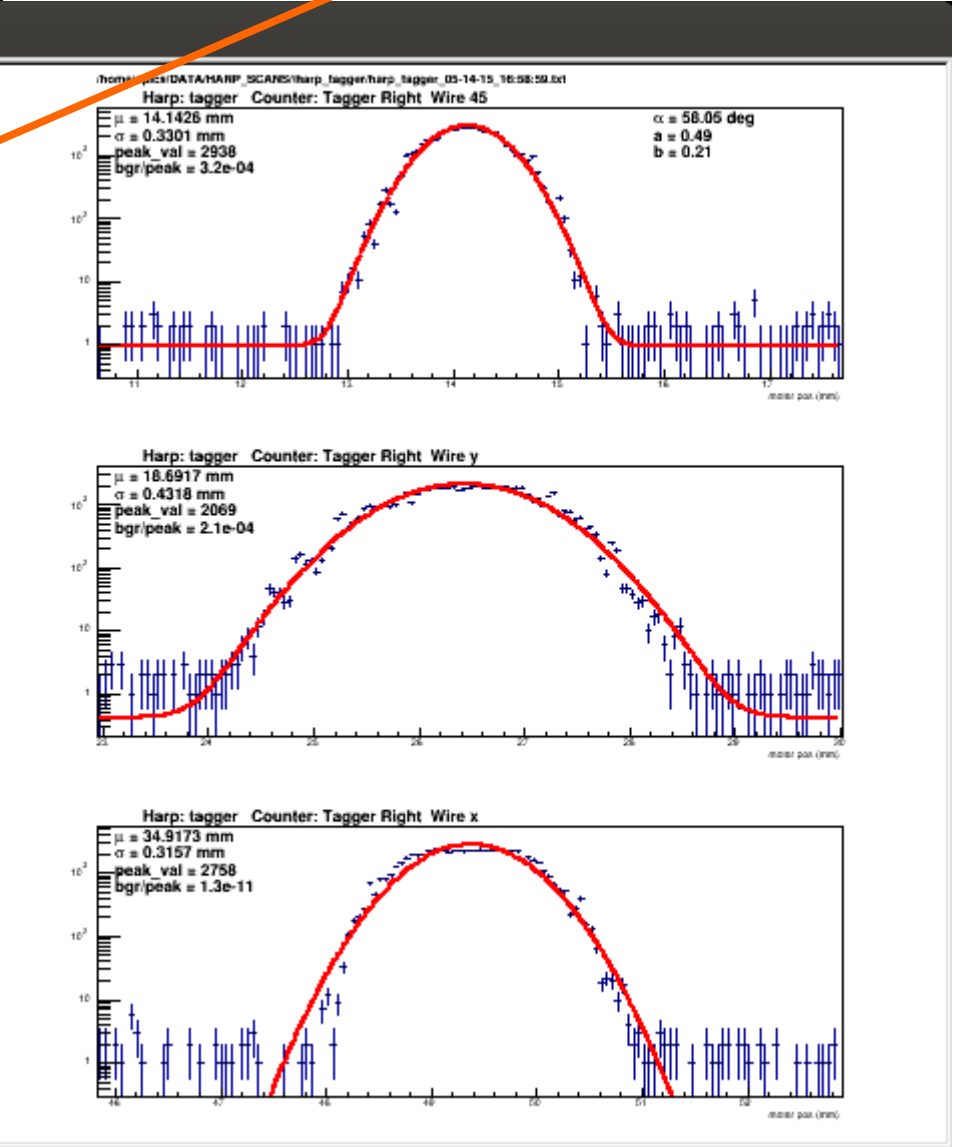
Exit

Submit to Logbook

Comments

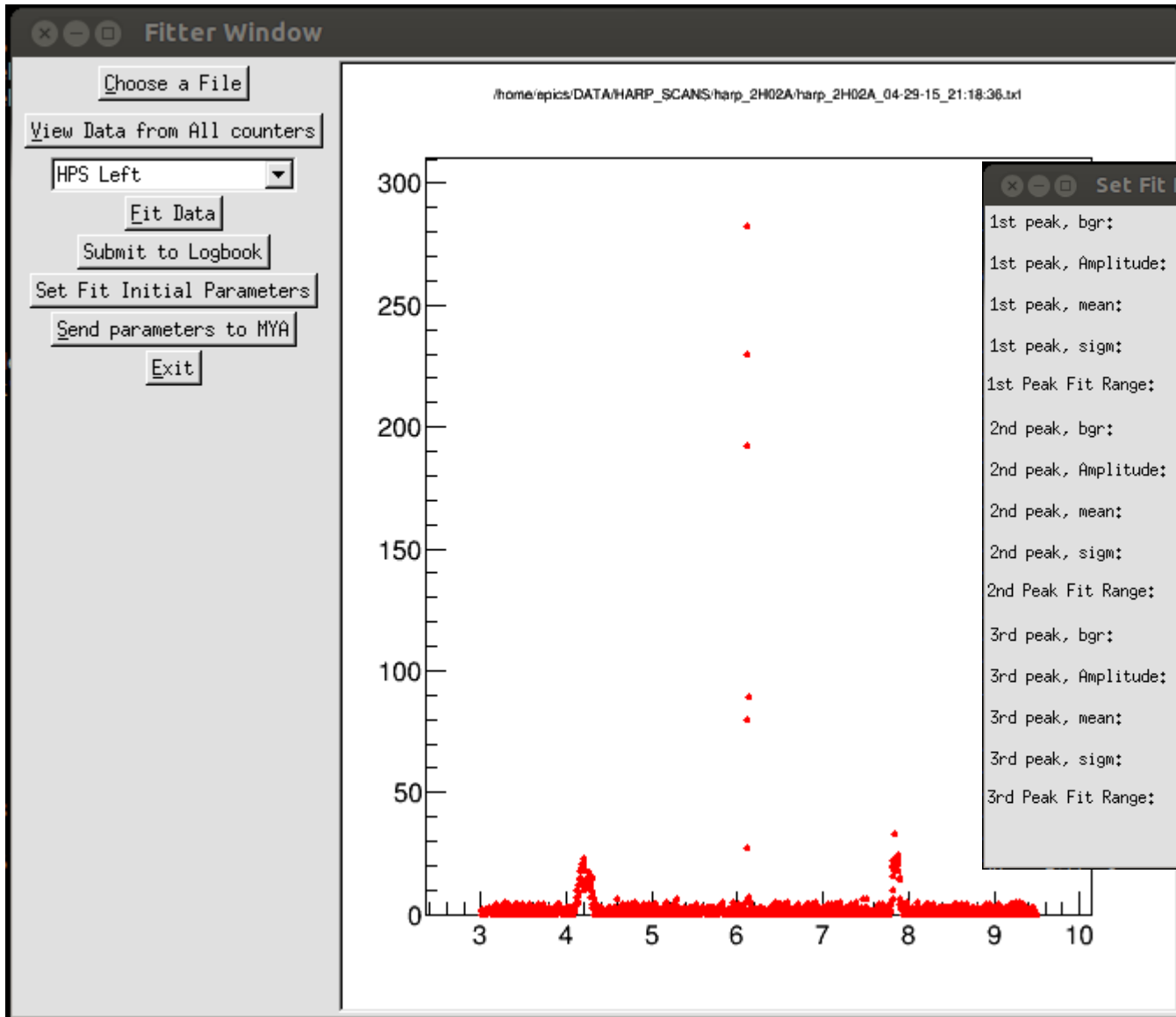
Submit

Press "Fit Data", to Fit



Sometimes fit is failed

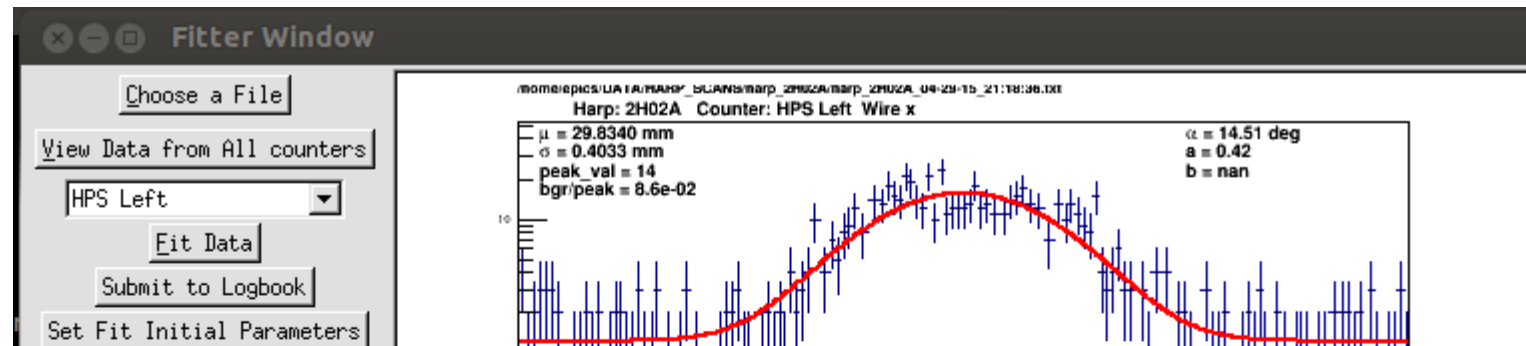
Can Set initial values, and
constrains on parameters.
Also can specify ranges
for each fit



Parameter	value	min	max
1st peak, bgr:	1	0	1e06
1st peak, Amplitude:	1	0	1e06
1st peak, mean:	25	0	60
1st peak, sigm:	0.1	0	1
1st Peak Fit Range:	min: 5, max: 25		
2nd peak, bgr:	1	0	1e06
2nd peak, Amplitude:	1	0	1e06
2nd peak, mean:	45	0	70
2nd peak, sigm:	0.1	0	1
2nd Peak Fit Range:	min: 25, max: 45		
3rd peak, bgr:	1	0	1e06
3rd peak, Amplitude:	1	0	1e06
3rd peak, mean:	65	45	95
3rd peak, sigm:	0.1	0	1
3rd Peak Fit Range:	min: 5, max: 25		

Buttons: Load Parameters from Fit, Preview, Fit

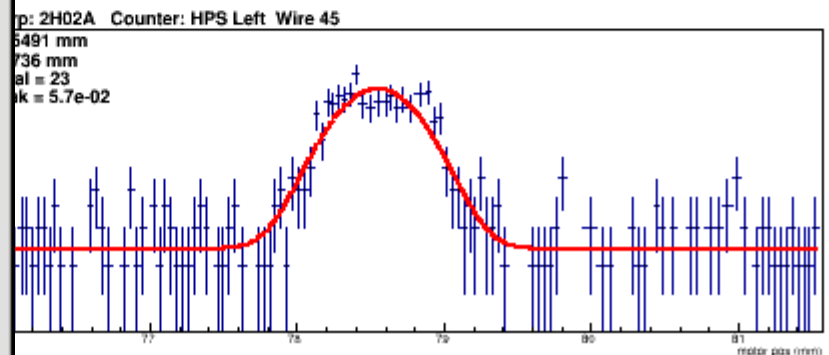
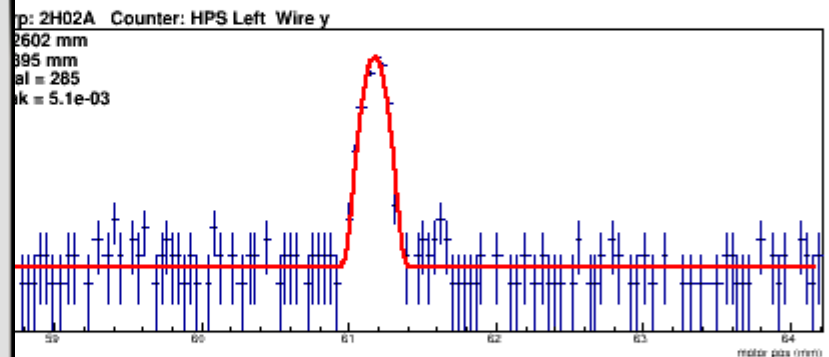
Fitted by setting parameters Manually

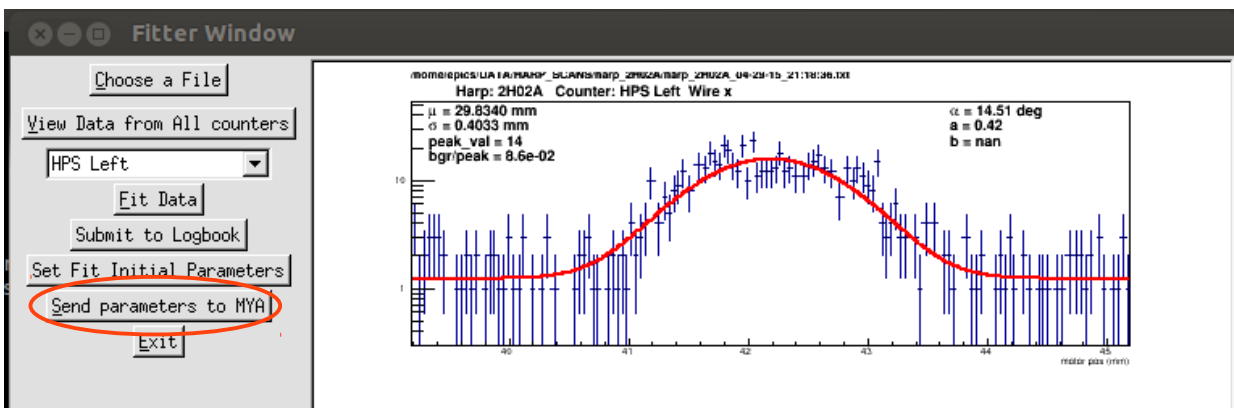


Set Fit Parameters Manually

1st peak, bgr:	value	1.22618	min	0	max	1e06
1st peak, Amplitude:	value	14.337	min	0	max	1e06
1st peak, mean:	value	42.1916	min	0	max	60
1st peak, sigm:	value	0.570423	min	0	max	1
1st Peak Fit Range:	min	39.1916	max	45.1916		
2nd peak, bgr:	value	1.59458	min	0	max	1e06
2nd peak, Amplitude:	value	284.8	min	0	max	1e06
2nd peak, mean:	value	61.1792	min	0	max	70
2nd peak, sigm:	value	0.0561742	min	0	max	1
2nd Peak Fit Range:	min	58.1792	max	64.1792		
3rd peak, bgr:	value	1.42611	min	0	max	1e06
3rd peak, Amplitude:	value	23.4153	min	0	max	1e06
3rd peak, mean:	value	78.5489	min	45	max	95
3rd peak, sigm:	value	0.271636	min	0	max	1
3rd Peak Fit Range:	min	75.5489	max	81.5489		

Load Parameters from Fit Preview Fit





For each wire

- ★ Mean
- ★ Sigma
- ★ Bgr/peak ratio
- ★ Peak value

For 3 wire scans In addition

- ★ Alpha
- ★ A
- ★ B

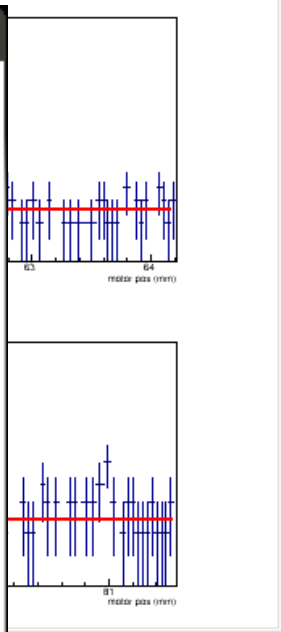
Also

- ★ Counter index (1-14)
- ★ Time stamp of the data file converted to secs since Sep 1 2014 00:00

```

HPS MEDM
Old : HB_BEAM:SCAN:2H02A:mean_x      29.9376
New : HB_BEAM:SCAN:2H02A:mean_x      29.834
Old : HB_BEAM:SCAN:2H02A:sigma_x     0.3309
New : HB_BEAM:SCAN:2H02A:sigma_x     0.40335
Old : HB_BEAM:SCAN:2H02A:bgr_peak_ratio_x 0.0028872
New : HB_BEAM:SCAN:2H02A:bgr_peak_ratio_x 0.0855295
Old : HB_BEAM:SCAN:2H02A:peak_x      20532.4
New : HB_BEAM:SCAN:2H02A:peak_x      14.3369
Old : HB_BEAM:SCAN:2H02A:mean_y      43.4954
New : HB_BEAM:SCAN:2H02A:mean_y      43.2602
Old : HB_BEAM:SCAN:2H02A:sigma_y     0.03366
New : HB_BEAM:SCAN:2H02A:sigma_y     0.03979
Old : HB_BEAM:SCAN:2H02A:bgr_peak_ratio_y 0.0003722
New : HB_BEAM:SCAN:2H02A:bgr_peak_ratio_y 0.0050964
Old : HB_BEAM:SCAN:2H02A:peak_y      221007
New : HB_BEAM:SCAN:2H02A:peak_y      284.7
Old : HB_BEAM:SCAN:2H02A:mean_45     78.8258
New : HB_BEAM:SCAN:2H02A:mean_45     78.5491
Old : HB_BEAM:SCAN:2H02A:sigma_45    0.25413
New : HB_BEAM:SCAN:2H02A:sigma_45    0.27362
Old : HB_BEAM:SCAN:2H02A:bgr_peak_ratio_45 0.0026082
New : HB_BEAM:SCAN:2H02A:bgr_peak_ratio_45 0.0568429
Old : HB_BEAM:SCAN:2H02A:peak_45     26502.7
New : HB_BEAM:SCAN:2H02A:peak_45     23.4688
Old : HB_BEAM:SCAN:2H02A:alpha       11.5041
New : HB_BEAM:SCAN:2H02A:alpha       14.5096
Old : HB_BEAM:SCAN:2H02A:a           0.3379
New : HB_BEAM:SCAN:2H02A:a           0.41743
Old : HB_BEAM:SCAN:2H02A:b           nan
New : HB_BEAM:SCAN:2H02A:b           nan
Old : HB_BEAM:SCAN:2H02A:unix_time   21272469
New : HB_BEAM:SCAN:2H02A:unix_time   20812716
Old : HB_BEAM:SCAN:2H02A:counter_num 13
New : HB_BEAM:SCAN:2H02A:counter_num 10

```



Mya variable names