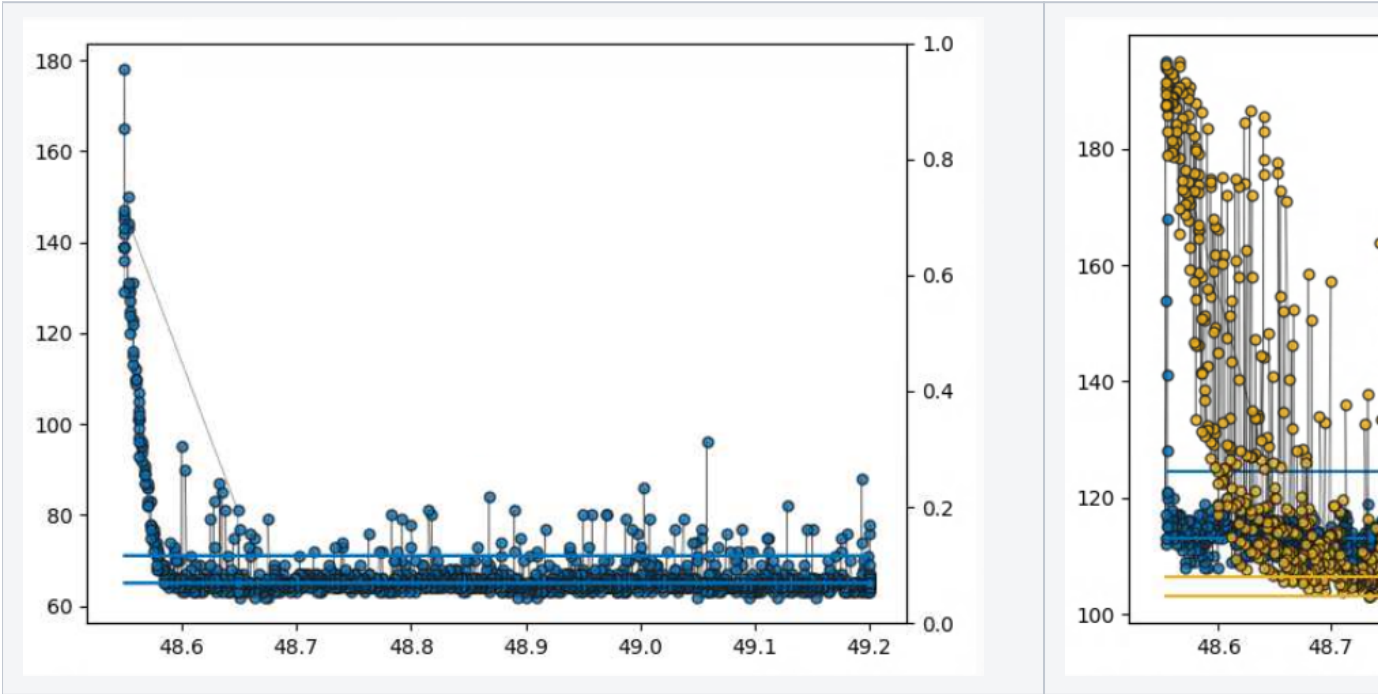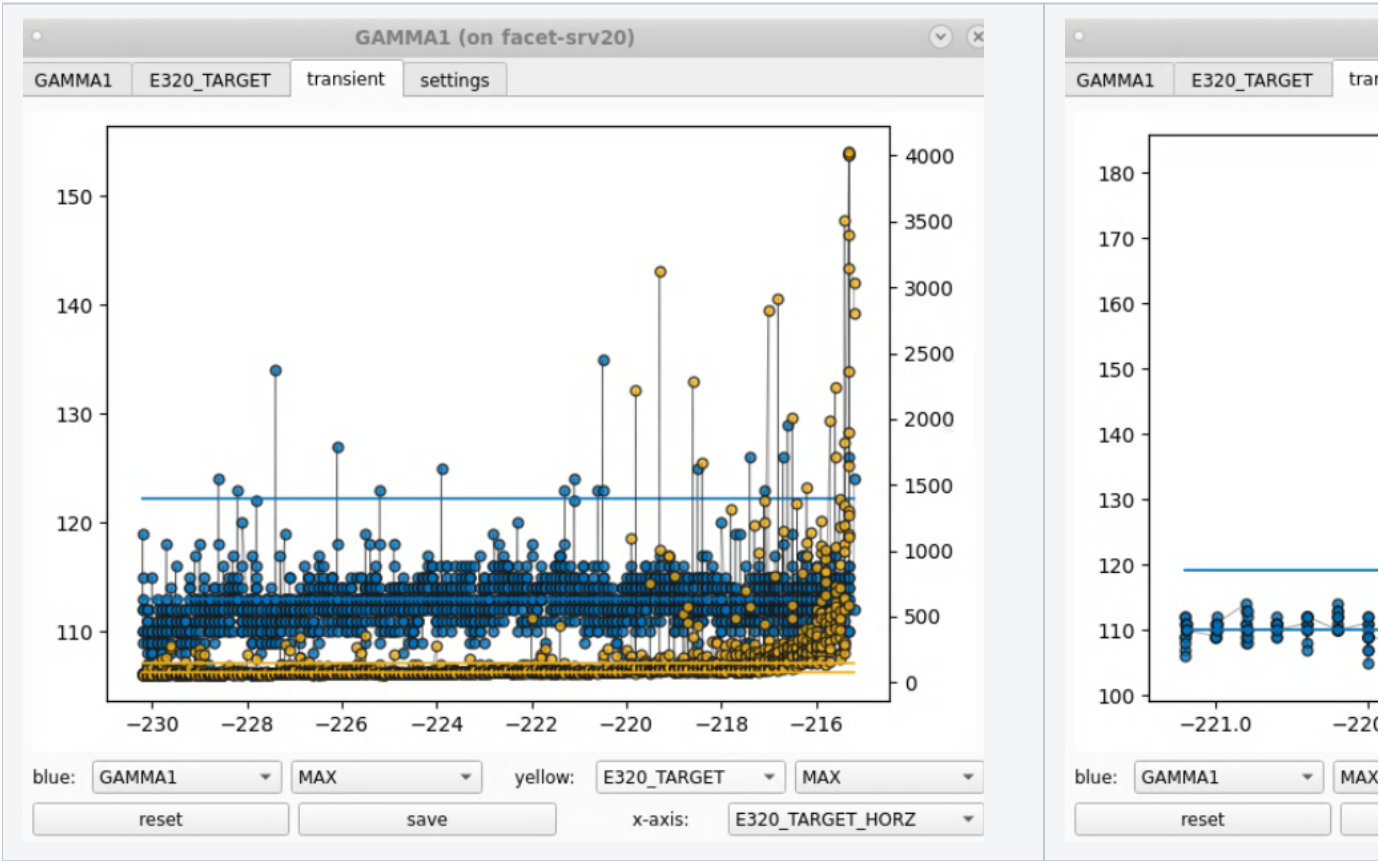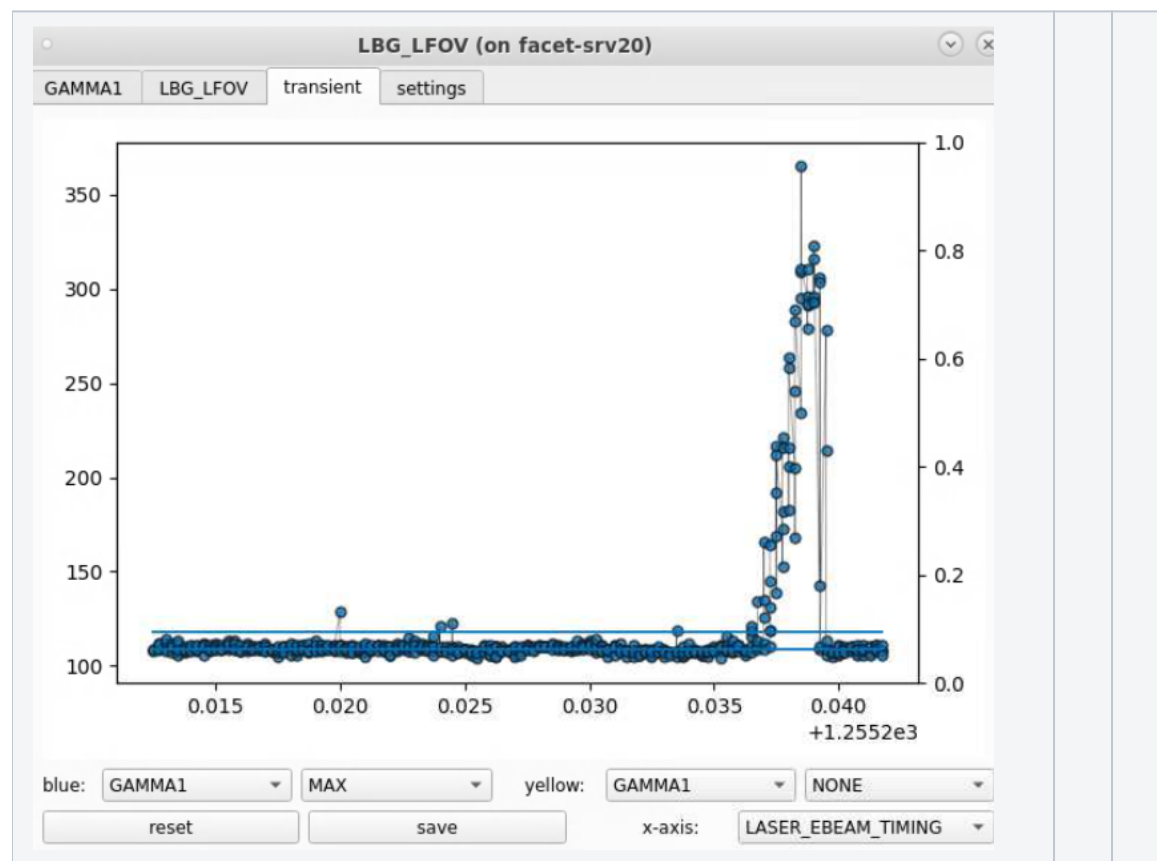# 2024, May 1st

Vertical spacial overlap

Found beam at: 48.5475 mm / (2nd scan: motor: 48.550)   blue is GAMMA1; yellow is E320_TARGET (YAG scintillation light)

Horizontal spacial overlap

Found beam at -218.7 (lost gamma1, moved several times back and forth difference between 1st and 2nd plot in position due to picomotor nonreproducibility)

Finding collisions

Tasks:

1. LBG_LFOV calibration
2. Finding edges in datasets

Key datasets:

07503, 07506-07509

Links to other analyses:

Link to focal scan:

Table of all scans:

04/29/2024 15:32 E320 — E320_07430 DAQ

```
Jitter DAQ
DTOTR2,
FACET DAQ 07430 for E320.
1000 shots per step and 0 steps.
Simple DAQ
Path: /nas/nas-li20-pm00/E320/2024/20240429/E320_07430
```

NAME	SAVE	REQ	MATCH
DTOTR2	1000	1000	999

04/29/2024 21:43 E320 — E320_07440 DAQ

```
focus scan before beam shaper
MO_MAG,
FACET DAQ 07440 for E320.
20 shots per step and 21 steps.
Scan of E320_MO_focal_scan (PV MOTR:LI20:MC08:S6:CH3:MOTOR) from -13.00 to -18.00 in 21 steps.
Path: /nas/nas-li20-pm00/E320/2024/20240429/E320_07440
```

NAME	SAVE	REQ	MATCH
MO_MAG	420	420	243

04/29/2024 22:18 E320 — E320_07442 DAQ

```
focus scan after beam shaper
MO_MAG,
FACET DAQ 07442 for E320.
20 shots per step and 21 steps.
Scan of E320_MO_focal_scan (PV MOTR:LI20:MC08:S6:CH3:MOTOR) from -13.00 to -18.00 in 21 steps.
Path: /nas/nas-li20-pm00/E320/2024/20240429/E320_07442
```

NAME	SAVE	REQ	MATCH
MO_MAG	420	420	269

04/30/2024 00:15 E320 — E320_07443 DAQ

```
focus scan after alignment to e-beam
MO_MAG,
FACET DAQ 07443 for E320.
20 shots per step and 21 steps.
Scan of E320_MO_focal_scan (PV MOTR:LI20:MC08:S6:CH3:MOTOR) from -13.00 to -18.00 in 21 steps.
Path: /nas/nas-li20-pm00/E320/2024/20240430/E320_07443
```

NAME	SAVE	REQ	MATCH
MO_MAG	420	420	340

04/30/2024 00:31 E320 — E320_07445 DAQ

```
focus scan after alignment to e-beam
MO_MAG,
FACET DAQ 07445 for E320.
20 shots per step and 21 steps.
Scan of E320_MO_focal_scan (PV MOTR:LI20:MC08:S6:CH3:MOTOR) from -13.00 to -18.00 in 21 steps.
Path: /nas/nas-li20-pm00/E320/2024/20240430/E320_07445
```

NAME	SAVE	REQ	MATCH
MO_MAG	420	420	352

04/30/2024 00:38 E320   **E320_07446 DAQ**

```
focus scan after alignment to e-beam
MO_MAG,
FACET DAQ 07446 for E320.
10 shots per step and 11 steps.
Scan of E320_MO_focal_scan (PV MOTR:LI20:MC08:S6:CH3:MOTOR) from -15.00 to -18.00 in 11 steps.
Path: /nas/nas-li20-pm00/E320/2024/20240430/E320_07446
```

NAME	SAVE	REQ	MATCH
MO_MAG	110	110	98

04/30/2024 01:01 E320   **E320_07447 DAQ**

```
EOS simple DAQ
EOS2,
FACET DAQ 07447 for E320.
400 shots per step and 0 steps.
Simple DAQ
Path: /nas/nas-li20-pm00/E320/2024/20240430/E320_07447
```

NAME	SAVE	REQ	MATCH
EOS2	400	400	377

04/30/2024 01:07 TEST   **TEST_07448 DAQ**

```
EOS simple DAQ
EOS2,
FACET DAQ 07448 for TEST.
40 shots per step and 0 steps.
Simple DAQ
Path: /nas/nas-li20-pm00/TEST/2024/20240430/TEST_07448
```

NAME	SAVE	REQ	MATCH
EOS2	40	40	38

04/30/2024 01:11 TEST   **TEST_07449 DAQ**

```
EOS simple DAQ
EOS2,
FACET DAQ 07449 for TEST.
40 shots per step and 0 steps.
Simple DAQ
Path: /nas/nas-li20-pm00/TEST/2024/20240430/TEST_07449
```

NAME	SAVE	REQ	MATCH
EOS2	40	40	36

04/30/2024 02:23 E320   **E320_07450 DAQ**

```
Test out 9+1 Goose Trigger
EOS2,
FACET DAQ 07450 for E320.
100 shots per step and 0 steps.
Simple DAQ
Path: /nas/nas-li20-pm00/E320/2024/20240430/E320_07450
```

NAME	SAVE	REQ	MATCH
EOS2	100	100	100

04/30/2024 02:58 TEST   **TEST_07451 DAQ**

```
Long collision dataset
EOS2, GAMMA1, LBG_LFOV,
FACET DAQ 07451 for TEST.
10 shots per step and 0 steps.
Simple DAQ
Path: /nas/nas-li20-pm00/TEST/2024/20240430/TEST_07451
```

NAME	SAVE	REQ	MATCH
EOS2	10	10	0
GAMMA1	0	10	0
LBG_LFOV	10	10	0

04/30/2024 02:58 TEST   **TEST_07452 DAQ**

```
Long collision dataset
EOS2, GAMMA1, LBG_LFOV,
FACET DAQ 07452 for TEST.
10 shots per step and 0 steps.
Simple DAQ
Path: /nas/nas-li20-pm00/TEST/2024/20240430/TEST_07452
```

NAME	SAVE	REQ	MATCH
EOS2	10	10	9
GAMMA1	10	10	9
LBG_LFOV	10	10	9

04/30/2024 02:59 TEST   **TEST_07453 DAQ**

```
Long collision dataset
EOS2, GAMMA1, LBG_LFOV,
FACET DAQ 07453 for TEST.
10 shots per step and 0 steps.
Simple DAQ
Path: /nas/nas-li20-pm00/TEST/2024/20240430/TEST_07453
```

NAME	SAVE	REQ	MATCH
EOS2	10	10	5
GAMMA1	10	10	5
LBG_LFOV	10	10	5

04/30/2024 03:06 E320   **E320_07454 DAQ**

```
Long collision dataset goose trigger OFF
EOS2, GAMMA1, LBG_LFOV,
FACET DAQ 07454 for E320.
1000 shots per step and 0 steps.
Simple DAQ
Path: /nas/nas-li20-pm00/E320/2024/20240430/E320_07454
```

NAME	SAVE	REQ	MATCH
EOS2	1000	1000	989
GAMMA1	1000	1000	989
LBG_LFOV	1000	1000	989

04/30/2024 03:13 E320   **E320_07455 DAQ goose trigger on**

```
Long collision dataset goose trigger ON
EOS2, GAMMA1, LBG_LFOV,
FACET DAQ 07455 for E320.
1000 shots per step and 0 steps.
Simple DAQ
Path: /nas/nas-li20-pm00/E320/2024/20240430/E320_07455
```

NAME	SAVE	REQ	MATCH
EOS2	1000	1000	991
GAMMA1	1000	1000	991
LBG_LFOV	1000	1000	991

04/30/2024 03:22 E320   **E320_07456 DAQ**

```
Laser timing scan on LBG_LFOV
EOS2, GAMMA1, LBG_LFOV,
FACET DAQ 07456 for E320.
10 shots per step and 41 steps.
Scan of LASER_TIME_Scan (PV OSC:LA20:10:FS_TGT_TIME) from 1255.26 to 1255.28 in 41 steps.
Path: /nas/nas-li20-pm00/E320/2024/20240430/E320_07456
```

NAME	SAVE	REQ	MATCH
EOS2	410	410	399
GAMMA1	410	410	399
LBG_LFOV	410	410	399

04/30/2024 03:52 E320   **E320_07458 DAQ**

```
Quad focus scan on LBG_LFOV
EOS2, GAMMA1, LBG_LFOV,
FACET DAQ 07458 for E320.
20 shots per step and 9 steps.
Scan of Spec_Quad_E (PV SIOC:SYS1:ML00:CALCOUT051) from 4.00 to 8.00 in 9 steps.
Path: /nas/nas-li20-pm00/E320/2024/20240430/E320_07458
```

NAME	SAVE	REQ	MATCH
EOS2	180	180	178
GAMMA1	180	180	178
LBG_LFOV	180	180	178

04/30/2024 04:13 E320   **E320_07459 DAQ**

```
DAQ FAILED/ABORTED
Laser intensity scan on LBG_LFOV, EOS2
EOS2, GAMMA1, LBG_LFOV,
FACET DAQ 07459 for E320.
10 shots per step and 46 steps.
Scan of S20Laser_EnergyWP (PV XPS:LA20:LS24:M1) from 74.00 to 119.00 in 46 steps.
Path: /nas/nas-li20-pm00/E320/2024/20240430/E320_07459
```

NAME	SAVE	REQ	MATCH
EOS2	320	460	0
GAMMA1	320	0	0
LBG_LFOV	320	0	0

04/30/2024 04:17 E320   **E320_07460 DAQ**

```
Laser intensity scan on LBG_LFOV, EOS2
EOS2, GAMMA1, LBG_LFOV,
FACET DAQ 07460 for E320.
10 shots per step and 46 steps.
Scan of S20Laser_EnergyWP (PV XPS:LA20:LS24:M1) from 74.00 to 119.00 in 46 steps.
Path: /nas/nas-li20-pm00/E320/2024/20240430/E320_07460
```

NAME	SAVE	REQ	MATCH
EOS2	460	460	457
GAMMA1	460	460	457
LBG_LFOV	460	460	457

04/30/2024 04:42 E320   **E320_07462 DAQ**

```
2D timing and x scan on LBG_LFOV, EOS2
EOS2, GAMMA1, LBG_LFOV,
FACET DAQ 07462 for E320.
10 shots per step and 121 steps.
Scan of E320_OAPAssembly_horizontal (PV XPS:LI20:MC10:M3) from 113.44 to 113.54 in 11 steps.
Scan of LASER_TIME_Scan (PV OSC:LA20:10:FS_TGT_TIME) from 1255.27 to 1255.28 in 11 steps.
Path: /nas/nas-li20-pm00/E320/2024/20240430/E320_07462
```

NAME	SAVE	REQ	MATCH
EOS2	1210	1210	1195
GAMMA1	1210	1210	1195
LBG_LFOV	1210	1210	1195

04/30/2024 05:49 **E320**   **E320_07463 DAQ**

```
DAQ FAILED/ABORTED
Refined x-t scan
EOS2, GAMMA1, LBG_LFOV,
FACET DAQ 07463 for E320.
10 shots per step and 208 steps.
Scan of E320_OAPAssembly_horizontal (PV XPS:LI20:MC10:M3) from 113.44 to 113.59 in 16 steps.
Scan of LASER_TIME_Scan (PV OSC:LA20:10:FS_TGT_TIME) from 1255.27 to 1255.28 in 13 steps.
Path: /nas/nas-li20-pm00/E320/2024/20240430/E320_07463
```

NAME	SAVE	REQ	MATCH
EOS2	540	2080	522
GAMMA1	538	2080	522
LBG_LFOV	540	2080	522

04/30/2024 06:10 **E320**   **E320_07464 DAQ**

```
Refined x-t scan
EOS2, GAMMA1, LBG_LFOV,
FACET DAQ 07464 for E320.
10 shots per step and 208 steps.
Scan of E320_OAPAssembly_horizontal (PV XPS:LI20:MC10:M3) from 113.44 to 113.59 in 16 steps.
Scan of LASER_TIME_Scan (PV OSC:LA20:10:FS_TGT_TIME) from 1255.27 to 1255.28 in 13 steps.
Path: /nas/nas-li20-pm00/E320/2024/20240430/E320_07464
```

NAME	SAVE	REQ	MATCH
EOS2	2080	2080	2059
GAMMA1	2080	2080	2059
LBG_LFOV	2080	2080	2059

04/30/2024 11:05 **TEST**   **TEST_07465 DAQ**

```
Beware: L2 went down mid-DAQ
Testing TCAV toggler. This is a dummy scan but XTCAV setting is being changed externally. Amplitude
 = 14.5. offTime = 2.0
SYAG, DTOTR2,
FACET DAQ 07465 for TEST.
1000 shots per step and 0 steps.
Simple DAQ
Path: /nas/nas-li20-pm00/TEST/2024/20240430/TEST_07465
```

NAME	SAVE	REQ	MATCH
SYAG	1000	1000	999
DTOTR2	1000	1000	999

04/30/2024 11:18 **TEST**   **TEST_07466 DAQ**

```
Testing TCAV toggler. This is a dummy scan but XTCAV setting is being changed externally. Amplitude
 = 14.5. offTime = 2.0
SYAG, DTOTR2,
FACET DAQ 07466 for TEST.
1000 shots per step and 0 steps.
Simple DAQ
Path: /nas/nas-li20-pm00/TEST/2024/20240430/TEST_07466
```

NAME	SAVE	REQ	MATCH
SYAG	1000	1000	1000
DTOTR2	1000	1000	1000

04/30/2024 14:20 TEST   TEST_07467 DAQ

more HDF5 testing

FACET DAQ 07467 for TEST.
20 shots per step and 0 steps.
Simple DAQ
Path: /nas/nas-li20-pm00/TEST/2024/20240430/TEST_07467

NAME	SAVE	REQ	MATCH
SYAG	20	20	20

04/30/2024 14:22 TEST   TEST_07468 DAQ

more HDF5 testing

FACET DAQ 07468 for TEST.
20 shots per step and 5 steps.
Scan of Dummy_Scan (PV SIOC:SYS1:ML02:AO399) from 1.00 to 5.00 in 5 steps.
Path: /nas/nas-li20-pm00/TEST/2024/20240430/TEST_07468

NAME	SAVE	REQ	MATCH
SYAG	100	100	100

04/30/2024 17:42 E320   E320_07470 DAQ

Looking for remaining low-energy tail. Dipole at 8 GeV, imaging pic_cent to LFOV, spectrometer quad
 energy scan.
LBG_LFOV,
FACET DAQ 07470 for E320.
10 shots per step and 9 steps.
Scan of Spec_Quad_E (PV SIOC:SYS1:ML00:CALCOUT051) from 2.00 to 10.00 in 9 steps.
Path: /nas/nas-li20-pm00/E320/2024/20240430/E320_07470

NAME	SAVE	REQ	MATCH
LBG_LFOV	90	90	90

04/30/2024 17:56 E320   E320_07471 DAQ

Looking for remaining low-energy tail. Dipole at 8 GeV, imaging pic_cent to LFOV, spectrometer quad
 energy scan.
LBG_LFOV,
FACET DAQ 07471 for E320.
10 shots per step and 9 steps.
Scan of Spec_Quad_E (PV SIOC:SYS1:ML00:CALCOUT051) from 2.00 to 10.00 in 9 steps.
Path: /nas/nas-li20-pm00/E320/2024/20240430/E320_07471

NAME	SAVE	REQ	MATCH
LBG_LFOV	90	90	88

E320_07472 DAQ

04/30/2024 17:55 E320

Looking for remaining low-energy tail. Dipole at 8 GeV, imaging pic_cent to LFOV, spectrometer quad
 energy scan.
LBG_LFOV,
FACET DAQ 07472 for E320.
10 shots per step and 9 steps.
Scan of Spec_Quad_E (PV SIOC:SYS1:ML00:CALCOUT051) from 2.00 to 10.00 in 9 steps.
Path: /nas/nas-li20-pm00/E320/2024/20240430/E320_07472

NAME	SAVE	REQ	MATCH
LBG_LFOV	90	90	90

E320_07474 DAQ

04/30/2024 18:13 E320

Jitter DAQ imaging pic_cent onto DTOTR
DTOTR2,
FACET DAQ 07474 for E320.
1000 shots per step and 0 steps.
Simple DAQ
Path: /nas/nas-li20-pm00/E320/2024/20240430/E320_07474

NAME	SAVE	REQ	MATCH
DTOTR2	1000	1000	1000

E320_07491 DAQ

04/30/2024 21:33 E320

Focal scan after alignment before beam shaping
MO_MAG,
FACET DAQ 07491 for E320.
10 shots per step and 21 steps.
Scan of E320_MO_focal_scan (PV MOTR:LI20:MC08:S6:CH3:MOTOR) from -18.50 to -15.00 in 21 steps.
Path: /nas/nas-li20-pm00/E320/2024/20240430/E320_07491

NAME	SAVE	REQ	MATCH
MO_MAG	210	210	201

E320_07492 DAQ

04/30/2024 21:25 E320

Focal scan after alignment before beam shaping
MO_MAG,
FACET DAQ 07492 for E320.
10 shots per step and 21 steps.
Scan of E320_MO_focal_scan (PV MOTR:LI20:MC08:S6:CH3:MOTOR) from -18.50 to -15.00 in 21 steps.
Path: /nas/nas-li20-pm00/E320/2024/20240430/E320_07492

NAME	SAVE	REQ	MATCH
MO_MAG	210	210	209

Alex:

The text was kept like that by accident and isn't c

This is the last dataset before taking data and a r

actual intensity distribution.

In contrary to the description, there was very sligl

Data analysis here

04/30/2024 22:40 E320 — E320_07497 DAQ

```
fine timing scan to optimize collisions, goose trigger ON
EOS2, GAMMA1, LBG_LFOV,
FACET DAQ 07497 for E320.
20 shots per step and 19 steps.
Scan of LASER_TIME_Scan (PV OSC:LA20:10:FS_TGT_TIME) from 1255.23 to 1255.24 in 19 steps.
Path: /nas/nas-li20-pm00/E320/2024/20240430/E320_07497
```

NAME	SAVE	REQ	MATCH
EOS2	380	380	379
GAMMA1	380	380	379
LBG_LFOV	380	380	379

04/30/2024 23:39 E320 — E320_07499 DAQ

```
2D timing and horizontal laser scan for GAMMA1, LBG_LFOV, EOS2 with goose trigger on
dipole at 9 GeV, quads focused at 6.5 GeV
EOS2, GAMMA1, LBG_LFOV,
FACET DAQ 07499 for E320.
10 shots per step and 363 steps.
Scan of LASER_TIME_Scan (PV OSC:LA20:10:FS_TGT_TIME) from 1255.24 to 1255.24 in 33 steps.
Scan of E320_OAPAssembly_horizontal (PV XPS:LI20:MC10:M3) from 112.90 to 113.00 in 11 steps.
Path: /nas/nas-li20-pm00/E320/2024/20240430/E320_07499
```

NAME	SAVE	REQ	MATCH
EOS2	3630	3630	3599
GAMMA1	3630	3630	3599
LBG_LFOV	3630	3630	3599

04/30/2024 23:57 E320 — E320_07500 DAQ

```
vertical alignment scan for GAMMA1, LBG_LFOV, EOS2 with goose trigger on, dipole at 9 GeV, quads
 focused at 6 GeV
EOS2, GAMMA1, LBG_LFOV,
FACET DAQ 07500 for E320.
10 shots per step and 21 steps.
Scan of E320_OAP1_vertical (PV MOTR:LI20:MC08:S7:CH1:MOTOR) from -26.00 to -27.00 in 21 steps.
Path: /nas/nas-li20-pm00/E320/2024/20240430/E320_07500
```

NAME	SAVE	REQ	MATCH
EOS2	210	210	209
GAMMA1	210	210	209
LBG_LFOV	210	210	209

05/01/2024 00:35 E320 — E320_07501 DAQ

```
2d timing and horizontal position for GAMMA1, LBG_LFOV, EOS2 with goose trigger on, dipole at 9
 GeV, quads focused at 6 GeV
EOS2, GAMMA1, LBG_LFOV,
FACET DAQ 07501 for E320.
10 shots per step and 187 steps.
Scan of LASER_TIME_Scan (PV OSC:LA20:10:FS_TGT_TIME) from 1255.24 to 1255.24 in 17 steps.
Scan of E320_OAPAssembly_horizontal (PV XPS:LI20:MC10:M3) from 112.90 to 113.00 in 11 steps.
Path: /nas/nas-li20-pm00/E320/2024/20240501/E320_07501
```

NAME	SAVE	REQ	MATCH
EOS2	1870	1870	1854
GAMMA1	1870	1870	1854
LBG_LFOV	1870	1870	1854

05/01/2024 01:21 E320   **E320_07502 DAQ**

2D grating and timing scan for GAMMA1, LBG_LFOV, EOS2 with goose trigger on, dipole at 9 GeV, quads
 focused at 6 GeV
EOS2, GAMMA1, LBG_LFOV,
FACET DAQ 07502 for E320.
10 shots per step and 357 steps.
Scan of S20Grating_Translation (PV XPS:LI20:MC03:M6) from 26.50 to 26.70 in 21 steps.
Scan of LASER_TIME_Scan (PV OSC:LA20:10:FS_TGT_TIME) from 1255.24 to 1255.24 in 17 steps.
Path: /nas/nas-li20-pm00/E320/2024/20240501/E320_07502

NAME	SAVE	REQ	MATCH
EOS2	3570	3570	3553
GAMMA1	3570	3570	3553
LBG_LFOV	3570	3570	3553

05/01/2024 02:46 E320   **E320_07503 DAQ**

Quad energy scan. Laser 100EOS2, GAMMA1, LBG_LFOV,
FACET DAQ 07503 for E320.
100 shots per step and 17 steps.
Scan of Spec_Quad_E (PV SIOC:SYS1:ML00:CALCOUT051) from 4.00 to 8.00 in 17 steps.
Path: /nas/nas-li20-pm00/E320/2024/20240501/E320_07503

NAME	SAVE	REQ	MATCH
EOS2	1700	1700	1680
GAMMA1	1700	1700	1680
LBG_LFOV	1700	1700	1680

05/01/2024 03:03 E320   **E320_07504 DAQ**

laser emergy scan. Laser 100EOS2, GAMMA1, LBG_LFOV,
FACET DAQ 07504 for E320.
100 shots per step and 16 steps.
Scan of S20Laser_EnergyWP (PV XPS:LA20:LS24:M1) from 74.00 to 119.00 in 16 steps.
Path: /nas/nas-li20-pm00/E320/2024/20240501/E320_07504

NAME	SAVE	REQ	MATCH
EOS2	1600	1600	1586
GAMMA1	1600	1600	1586
LBG_LFOV	1600	1600	1586

05/01/2024 03:27 E320   **E320_07505 DAQ**

laser emergy scan. Laser 100EOS2, GAMMA1, LBG_LFOV,
FACET DAQ 07505 for E320.
100 shots per step and 16 steps.
Scan of S20Laser_EnergyWP (PV XPS:LA20:LS24:M1) from 74.00 to 119.00 in 16 steps.
Path: /nas/nas-li20-pm00/E320/2024/20240501/E320_07505

NAME	SAVE	REQ	MATCH
EOS2	1600	1600	1588
GAMMA1	1600	1600	1588
LBG_LFOV	1600	1600	1588

05/01/2024 04:02 E320   **E320_07506 DAQ**

```
laser emergy scan 10EOS2, GAMMA1, LBG_LFOV,
FACET DAQ 07506 for E320.
100 shots per step and 16 steps.
Scan of S20Laser_EnergyWP (PV XPS:LA20:LS24:M1) from 84.00 to 114.00 in 16 steps.
Path: /nas/nas-li20-pm00/E320/2024/20240501/E320_07506
```

NAME	SAVE	REQ	MATCH
EOS2	1600	1600	1582
GAMMA1	1600	1600	1582
LBG_LFOV	1600	1600	1582

05/01/2024 04:18 E320   **E320_07507 DAQ**

```
laser emergy scan 10EOS2, GAMMA1, LBG_LFOV,
FACET DAQ 07507 for E320.
100 shots per step and 16 steps.
Scan of S20Laser_EnergyWP (PV XPS:LA20:LS24:M1) from 84.00 to 114.00 in 16 steps.
Path: /nas/nas-li20-pm00/E320/2024/20240501/E320_07507
```

NAME	SAVE	REQ	MATCH
EOS2	1600	1600	1589
GAMMA1	1600	1600	1589
LBG_LFOV	1600	1600	1589

05/01/2024 04:42 E320   **E320_07508 DAQ**

```
laser energy scan 10EOS2, GAMMA1, LBG_LFOV,
FACET DAQ 07508 for E320.
100 shots per step and 16 steps.
Scan of S20Laser_EnergyWP (PV XPS:LA20:LS24:M1) from 84.00 to 114.00 in 16 steps.
Path: /nas/nas-li20-pm00/E320/2024/20240501/E320_07508
```

NAME	SAVE	REQ	MATCH
EOS2	1600	1600	1599
GAMMA1	1600	1600	1599
LBG_LFOV	1600	1600	1599

05/01/2024 05:18 E320   **E320_07509 DAQ**

```
laser energy scan 10EOS2, GAMMA1, LBG_LFOV,
FACET DAQ 07509 for E320.
100 shots per step and 16 steps.
Scan of S20Laser_EnergyWP (PV XPS:LA20:LS24:M1) from 84.00 to 114.00 in 16 steps.
Path: /nas/nas-li20-pm00/E320/2024/20240501/E320_07509
```

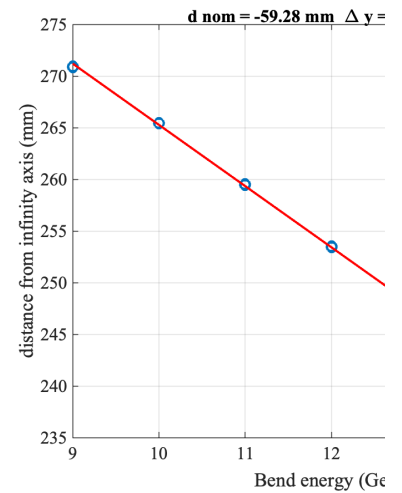| NAME	SAVE	REQ	MATCH
EOS2	1600	1600	1599
GAMMA1	1600	1600	1599
LBG_LFOV	1600	1600	1599

```
LBG_LFOV energy calibration
LBG_LFOV,
FACET DAQ 07513 for E320.
5 shots per step and 7 steps.
Scan of BNDS_LI20_3330 (PV BNDS:LI20:3330) from 9.00 to 15.00 in 7 steps.
Path: /nas/nas-li20-pm00/E320/2024/20240501/E320_07513
```

NAME	SAVE	REQ	MATCH
LBG_LFOV	35	35	35

Function that gives energy calibration:

LBG_LFOV_EnergyAxis_0501.m

```
LBG_LFOV energy calibration
LBG_LFOV,
FACET DAQ 07514 for E320.
5 shots per step and 5 steps.
Scan of BNDS_LI20_3330 (PV BNDS:LI20:3330) from 9.00 to 20.00 in 5 steps.
Path: /nas/nas-li20-pm00/E320/2024/20240501/E320_07514
```

NAME	SAVE	REQ	MATCH
LBG_LFOV	25	25	25

```
ND out image 6.8 GeV, goose on, timing feedback on
EOS2, GAMMA1, LBG_LFOV,
FACET DAQ 07515 for E320.
100 shots per step and 16 steps.
Scan of S20Laser_EnergyWP (PV XPS:LA20:LS24:M1) from 84.00 to 114.00 in 16 steps.
Path: /nas/nas-li20-pm00/E320/2024/20240501/E320_07515
```

NAME	SAVE	REQ	MATCH
EOS2	1600	1600	1598
GAMMA1	1600	1600	1598
LBG_LFOV	1600	1600	1598

05/01/2024 06:25 E320   **E320_07516 DAQ**

```
ND In image 8.2 GeV, goose on, timing feedback on
EOS2, GAMMA1, LBG_LFOV,
FACET DAQ 07516 for E320.
100 shots per step and 16 steps.
Scan of S20Laser_EnergyWP (PV XPS:LA20:LS24:M1) from 84.00 to 114.00 in 16 steps.
Path: /nas/nas-li20-pm00/E320/2024/20240501/E320_07516
```

NAME	SAVE	REQ	MATCH
EOS2	1600	1600	1599
GAMMA1	1600	1600	1599
LBG_LFOV	1600	1600	1599

05/01/2024 06:37 E320   **E320_07517 DAQ**

```
ND out, laser 100 EOS2, GAMMA1, LBG_LFOV,
FACET DAQ 07517 for E320.
100 shots per step and 11 steps.
Scan of Spec_Quad_E (PV SIOC:SYS1:ML00:CALCOUT051) from 5.00 to 7.00 in 11 steps.
Path: /nas/nas-li20-pm00/E320/2024/20240501/E320_07517
```

NAME	SAVE	REQ	MATCH
EOS2	1100	1100	1099
GAMMA1	1100	1100	1099
LBG_LFOV	1100	1100	1099

05/01/2024 06:52 E320   **E320_07518 DAQ**

```
ND IN, laser 100 EOS2, GAMMA1, LBG_LFOV,
FACET DAQ 07518 for E320.
100 shots per step and 16 steps.
Scan of Spec_Quad_E (PV SIOC:SYS1:ML00:CALCOUT051) from 7.00 to 10.00 in 16 steps.
Path: /nas/nas-li20-pm00/E320/2024/20240501/E320_07518
```

NAME	SAVE	REQ	MATCH
EOS2	1600	1600	1599
GAMMA1	1600	1600	1599
LBG_LFOV	1600	1600	1599

05/01/2024 07:12 E320   **E320_07520 DAQ**

```
ND OUT, laser 10 EOS2, GAMMA1, LBG_LFOV,
FACET DAQ 07520 for E320.
100 shots per step and 11 steps.
Scan of Spec_Quad_E (PV SIOC:SYS1:ML00:CALCOUT051) from 5.00 to 7.00 in 11 steps
Path: /nas/nas-li20-pm00/E320/2024/20240501/E320_07520
```

NAME	SAVE	REQ	MATCH
EOS2	1100	1100	1099
GAMMA1	1100	1100	1099
LBG_LFOV	1100	1100	1099