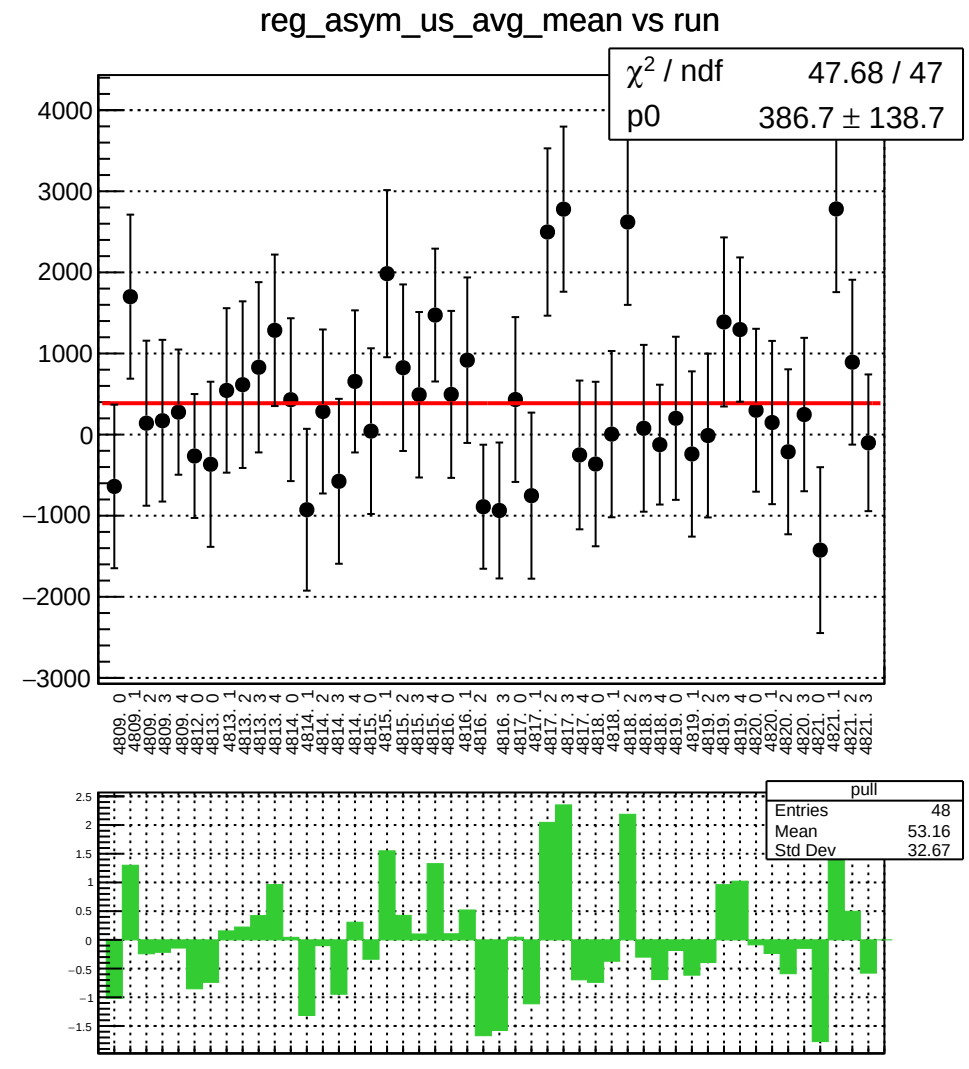
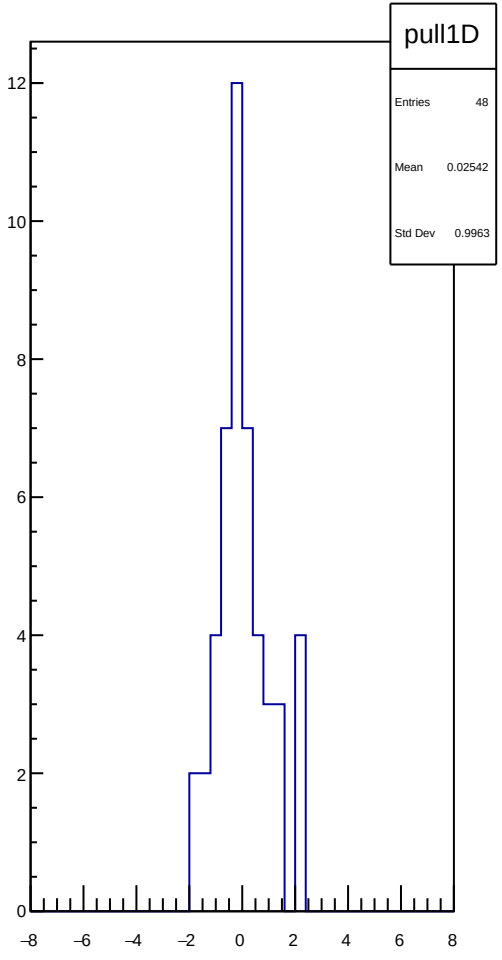
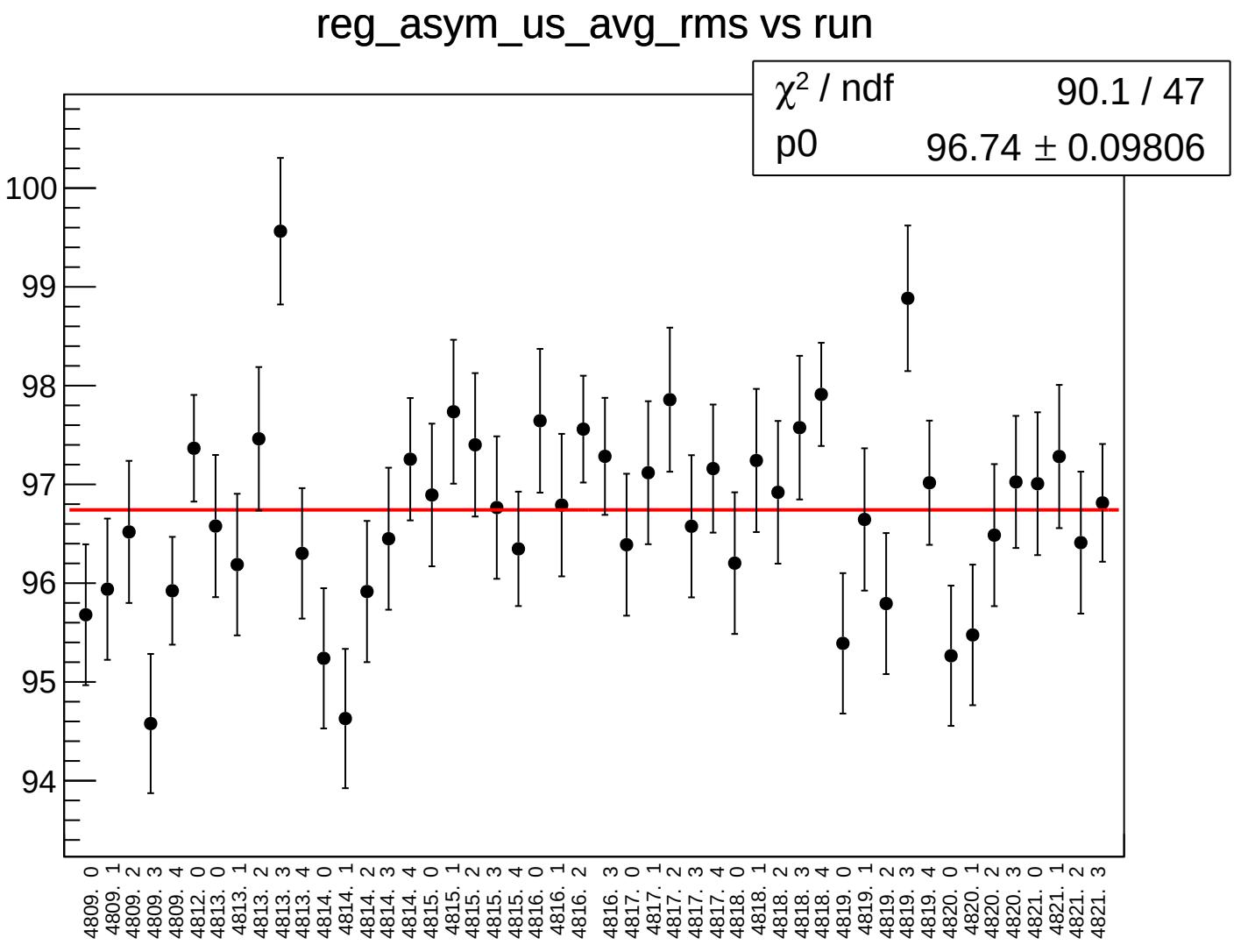
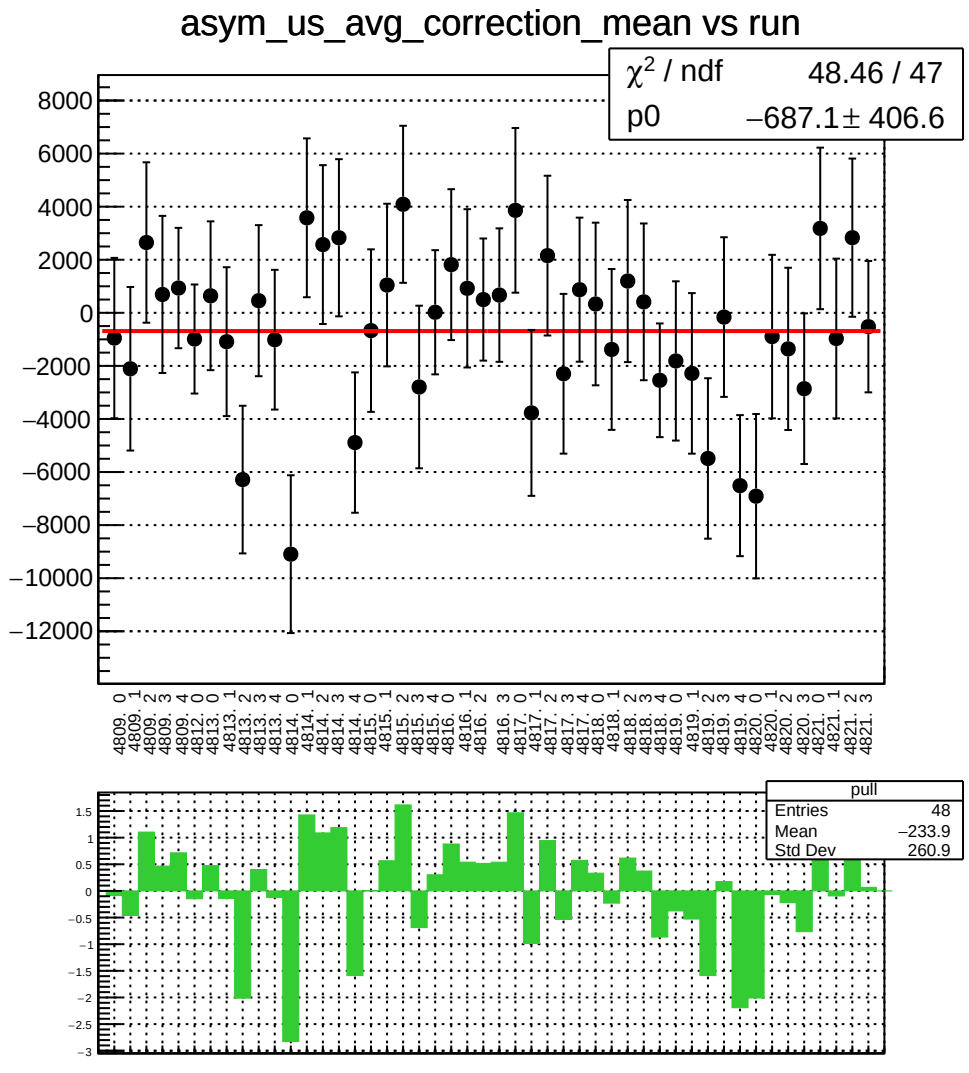
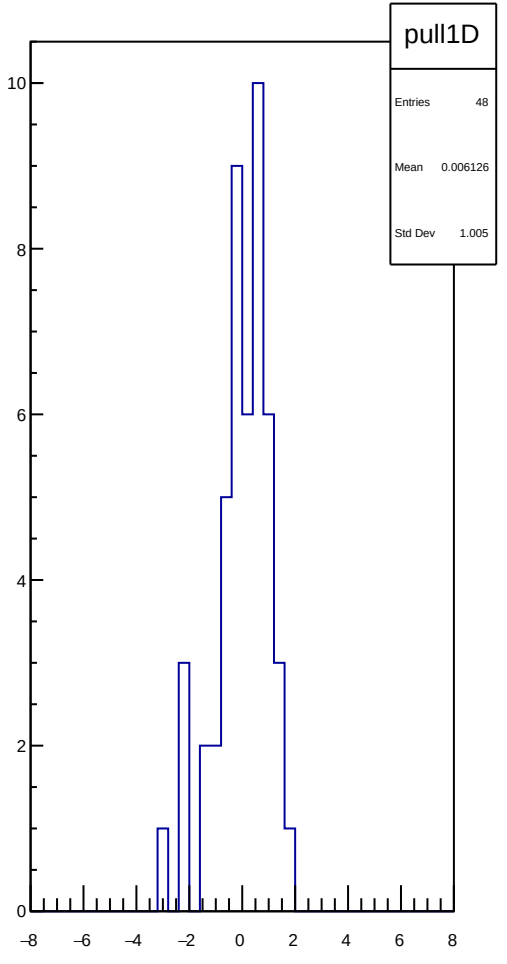
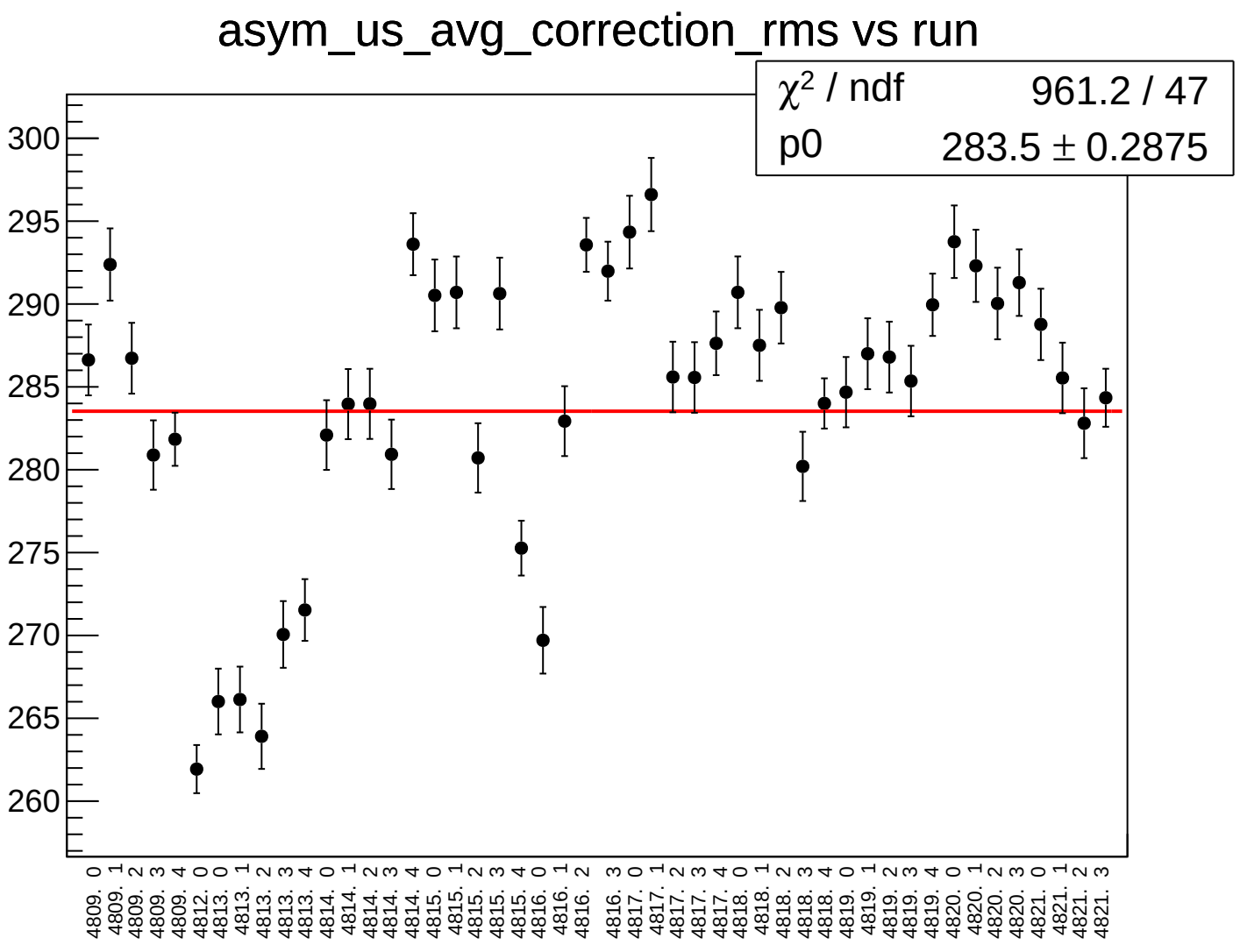

reg_asym_us_avg_mean vs run
χ² / ndf 47.68 / 47
p0 386.7 ± 138.7
pull
Entries 48
Mean 53.16
Std Dev 32.67

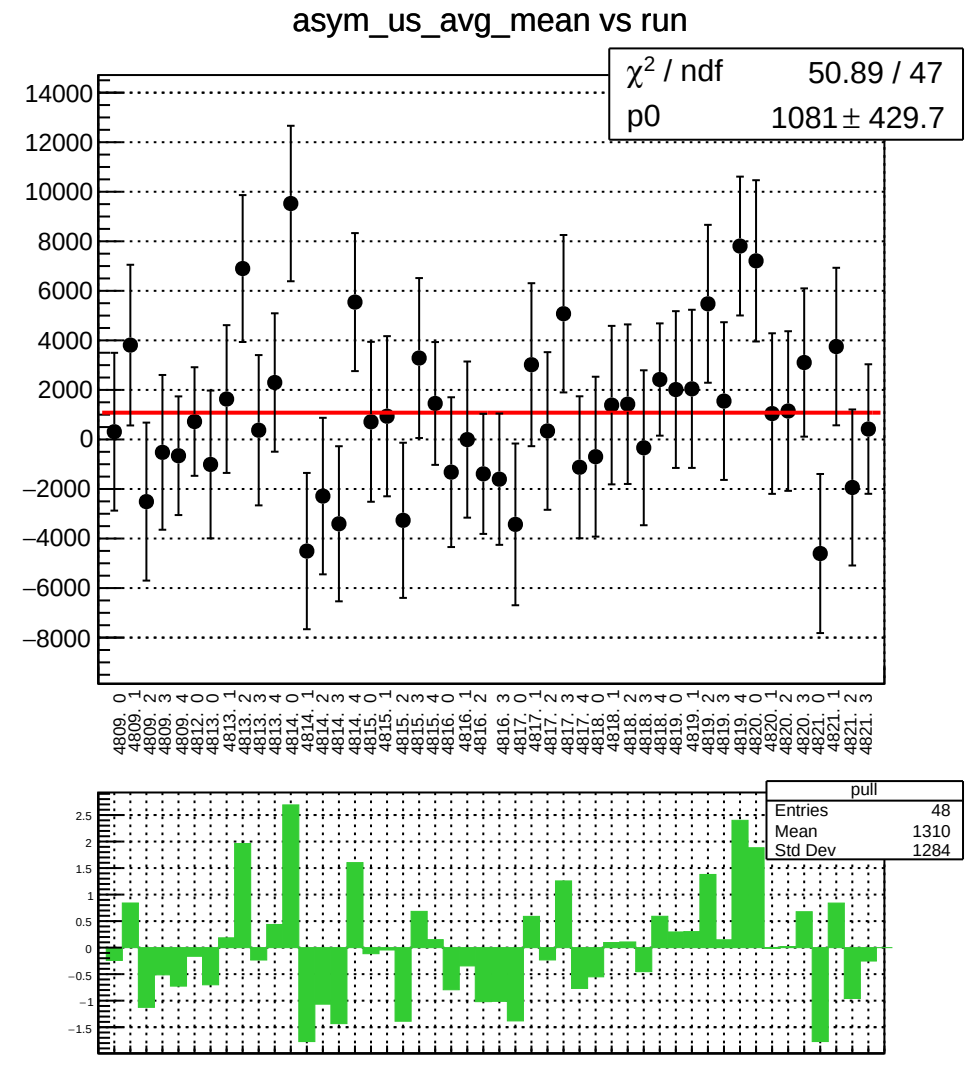

pull1D
Entries 48
Mean 0.02542
Std Dev 0.9963

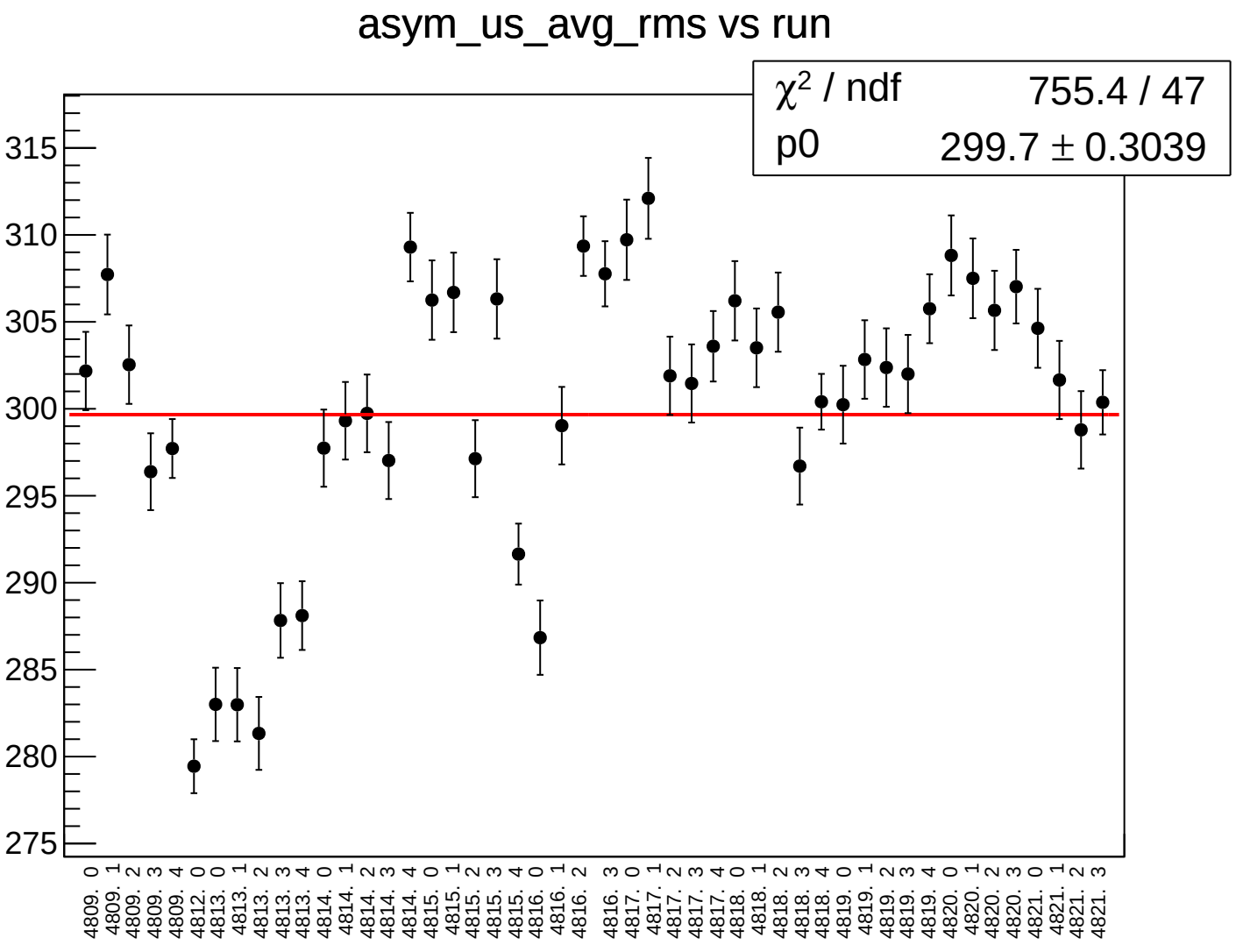

reg_asym_us_avg_rms vs run
χ² / ndf 90.1 / 47
p0 96.74 ± 0.09806
100
99
98
97
96
95
94
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

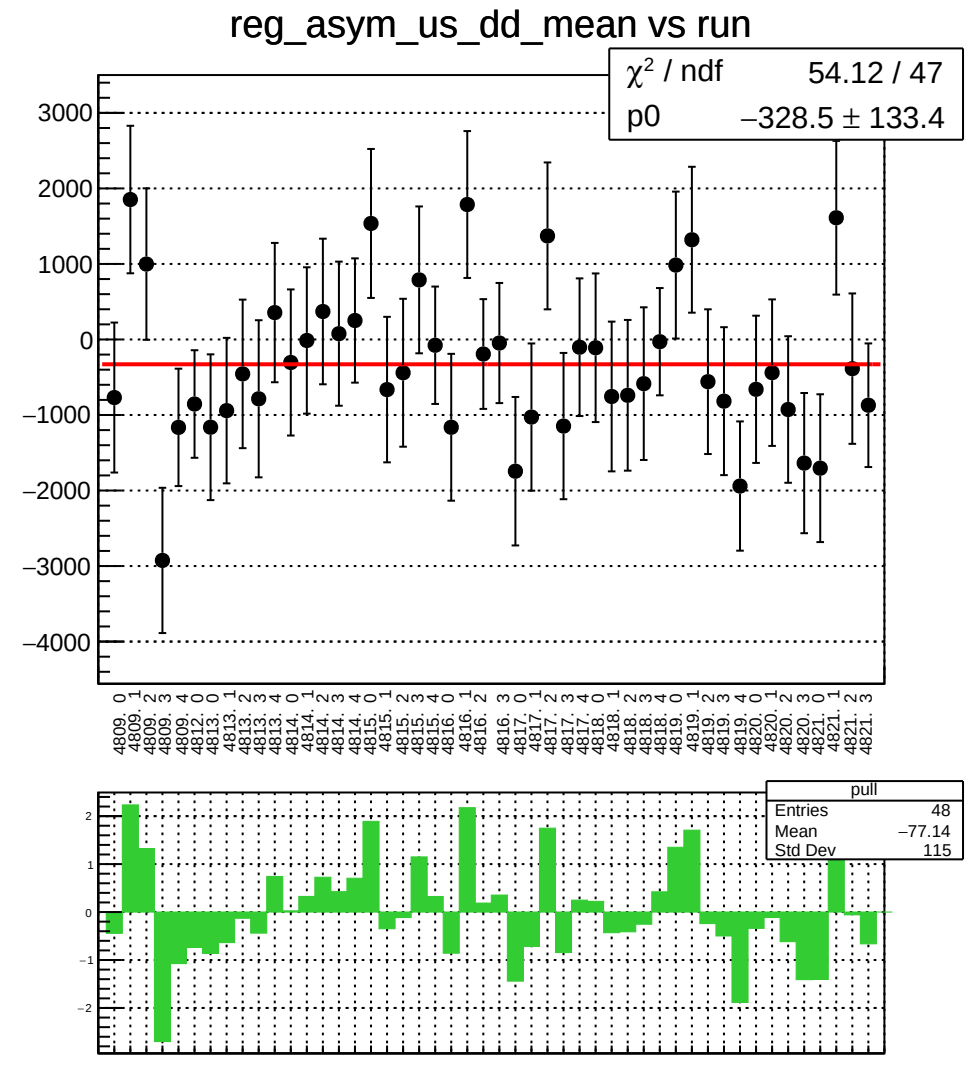

asym_us_avg_correction_mean vs run
χ² / ndf 48.46 / 47
p0 −687.1± 406.6
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean −233.9
Std Dev 260.9
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

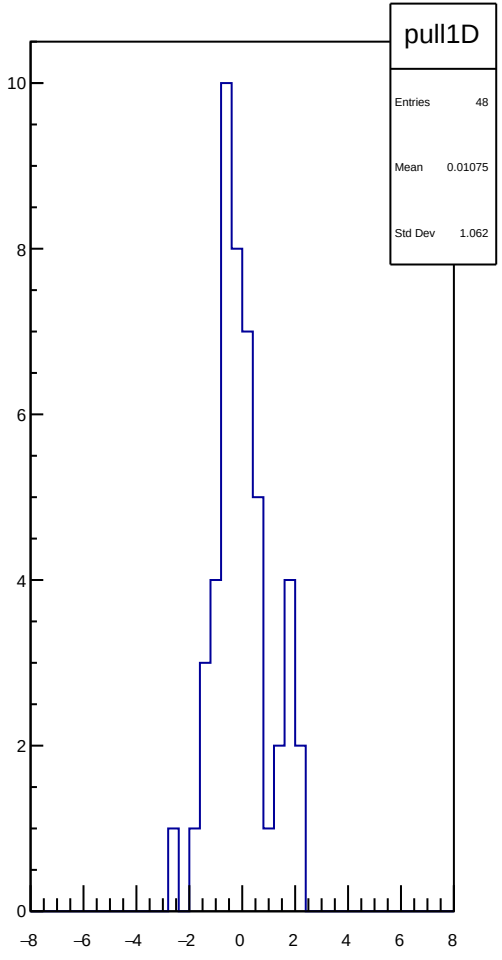

pull1D
Entries 48
Mean 0.006126
Std Dev 1.005
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

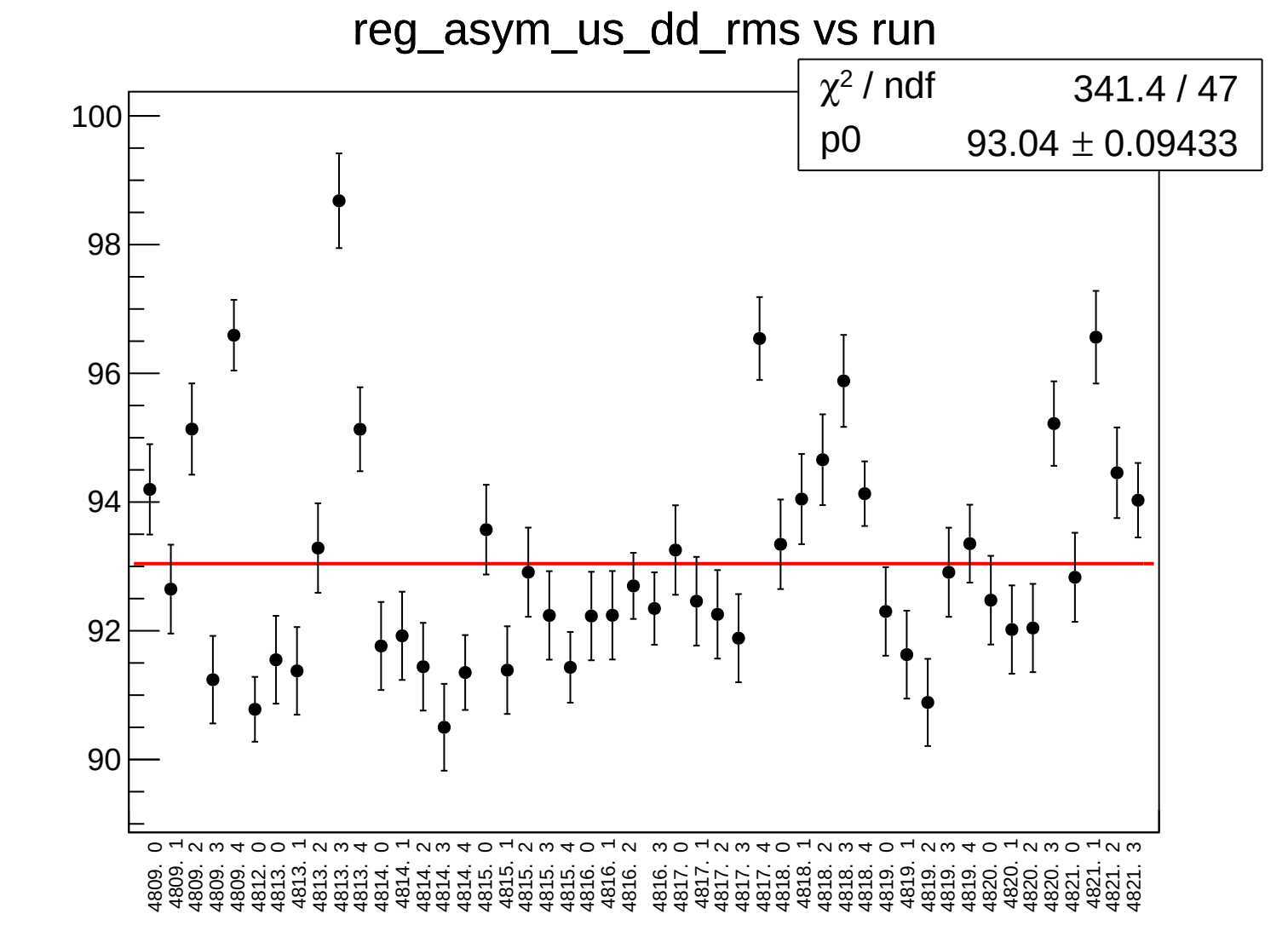

asym_us_avg_correction_rms vs run
χ² / ndf 961.2 / 47
p0 283.5 ± 0.2875
300
295
290
285
280
275
270
265
260
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

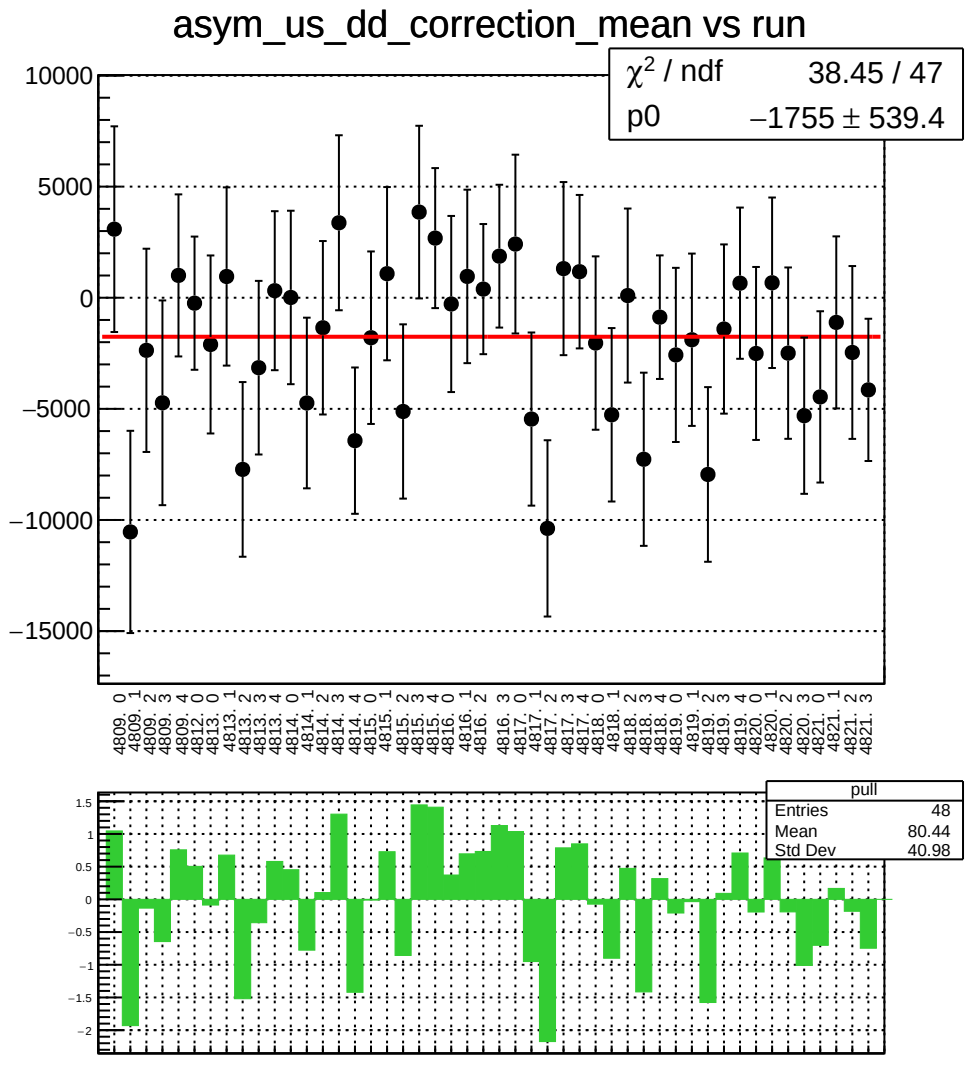

asym_us_avg_mean vs run
χ² / ndf 50.89 / 47
p0 1081 ± 429.7
14000
12000
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 1310
Std Dev 1284
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 48
Mean 0.001365
Std Dev 1.03
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

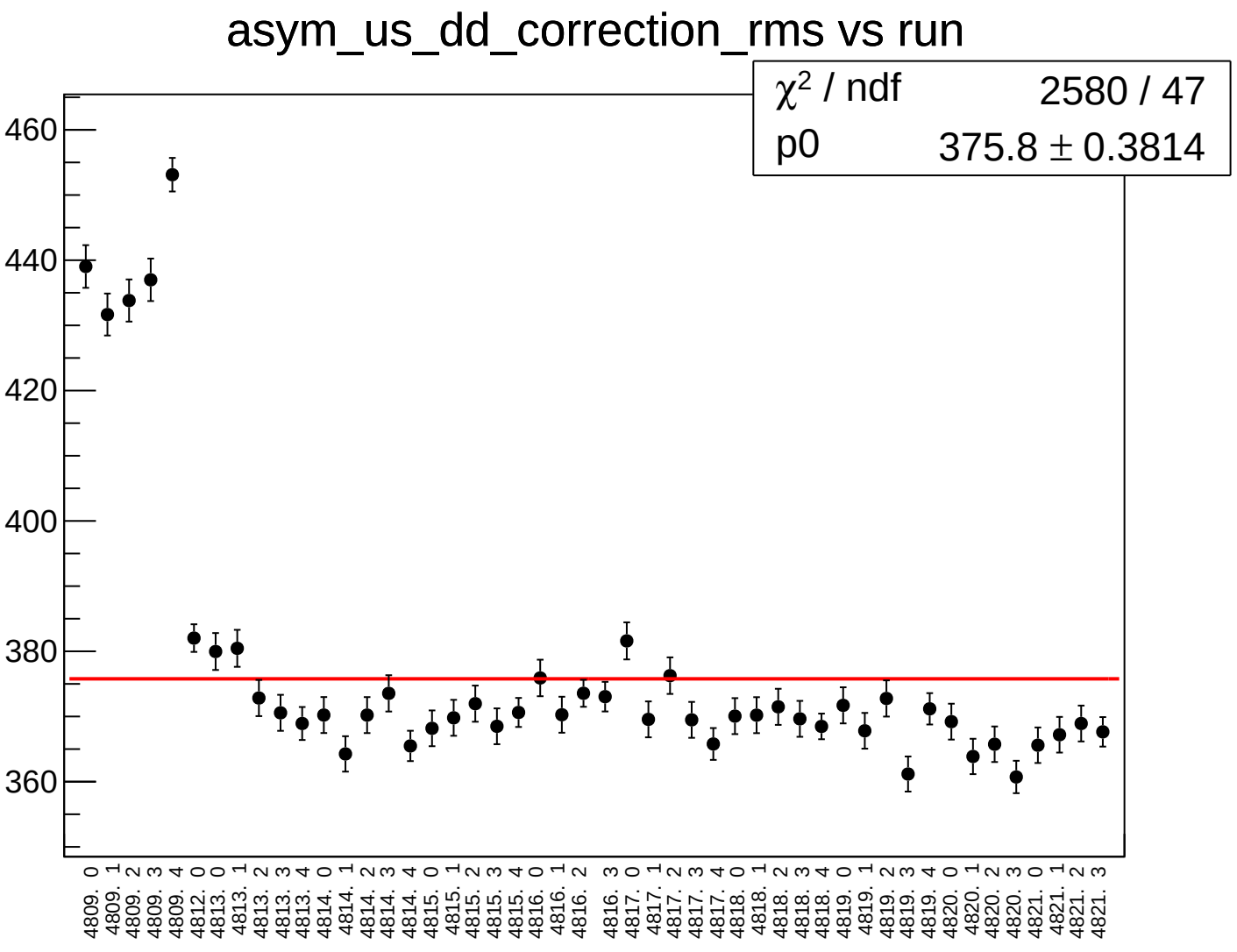

asym_us_avg_rms vs run
χ² / ndf 755.4 / 47
p0 299.7 ± 0.3039
315
310
305
300
295
290
285
280
275
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

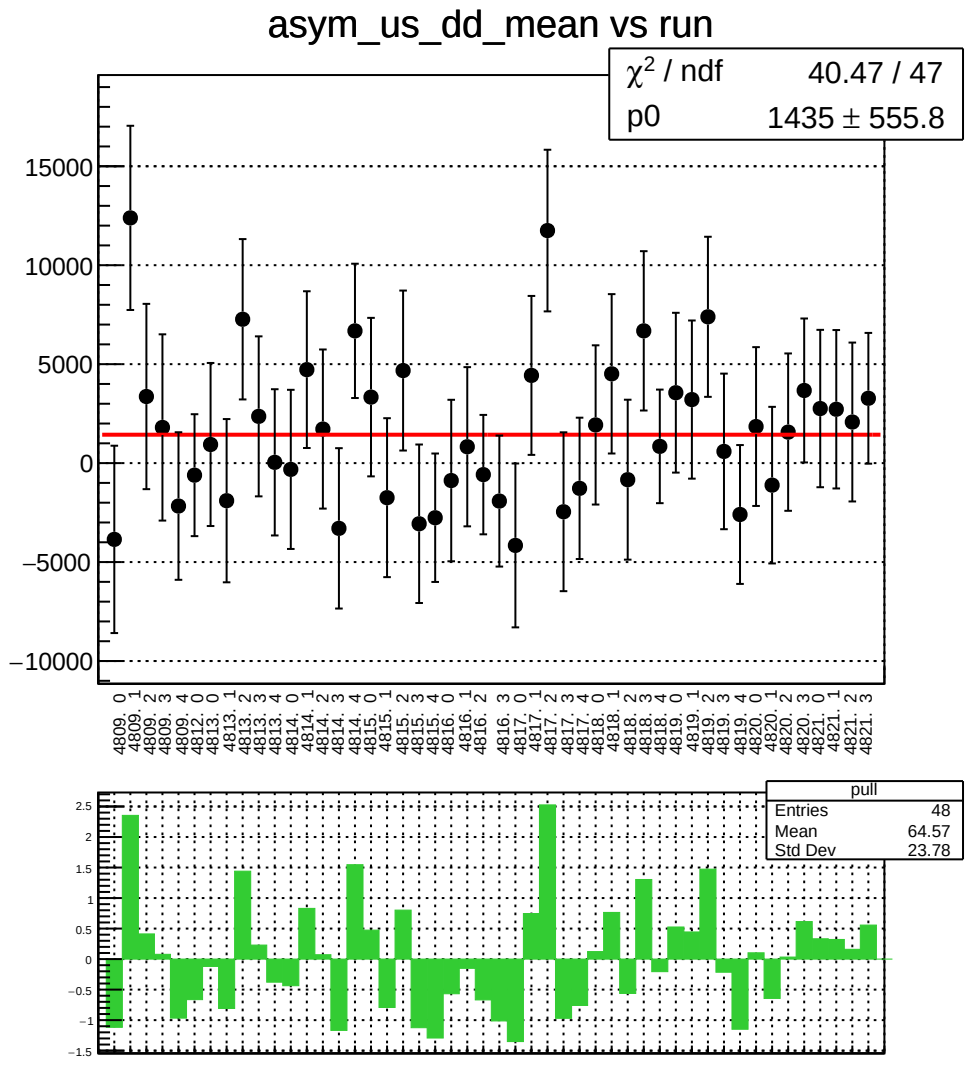

reg_asym_us_dd_mean vs run
χ² / ndf 54.12 / 47
p0 −328.5 ± 133.4
pull
Entries 48
Mean −77.14
Std Dev 115

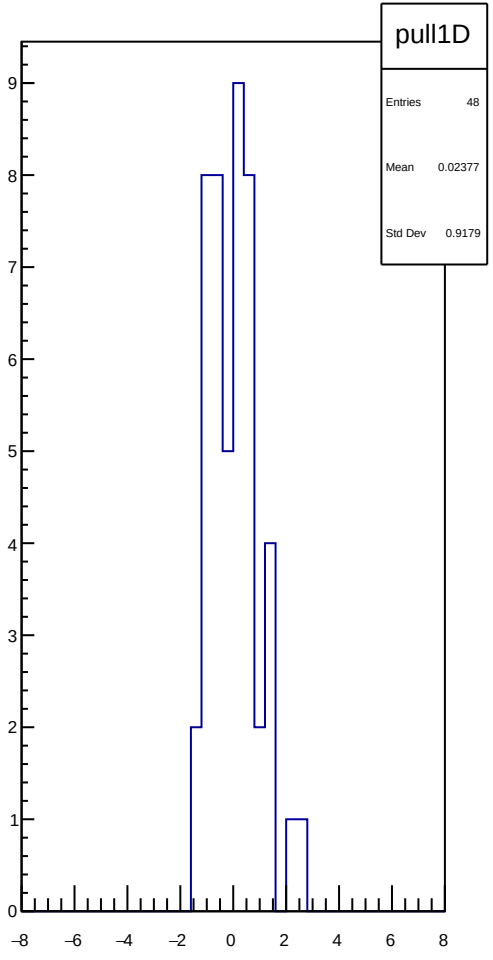

pull1D
Entries 48
Mean 0.01075
Std Dev 1.062

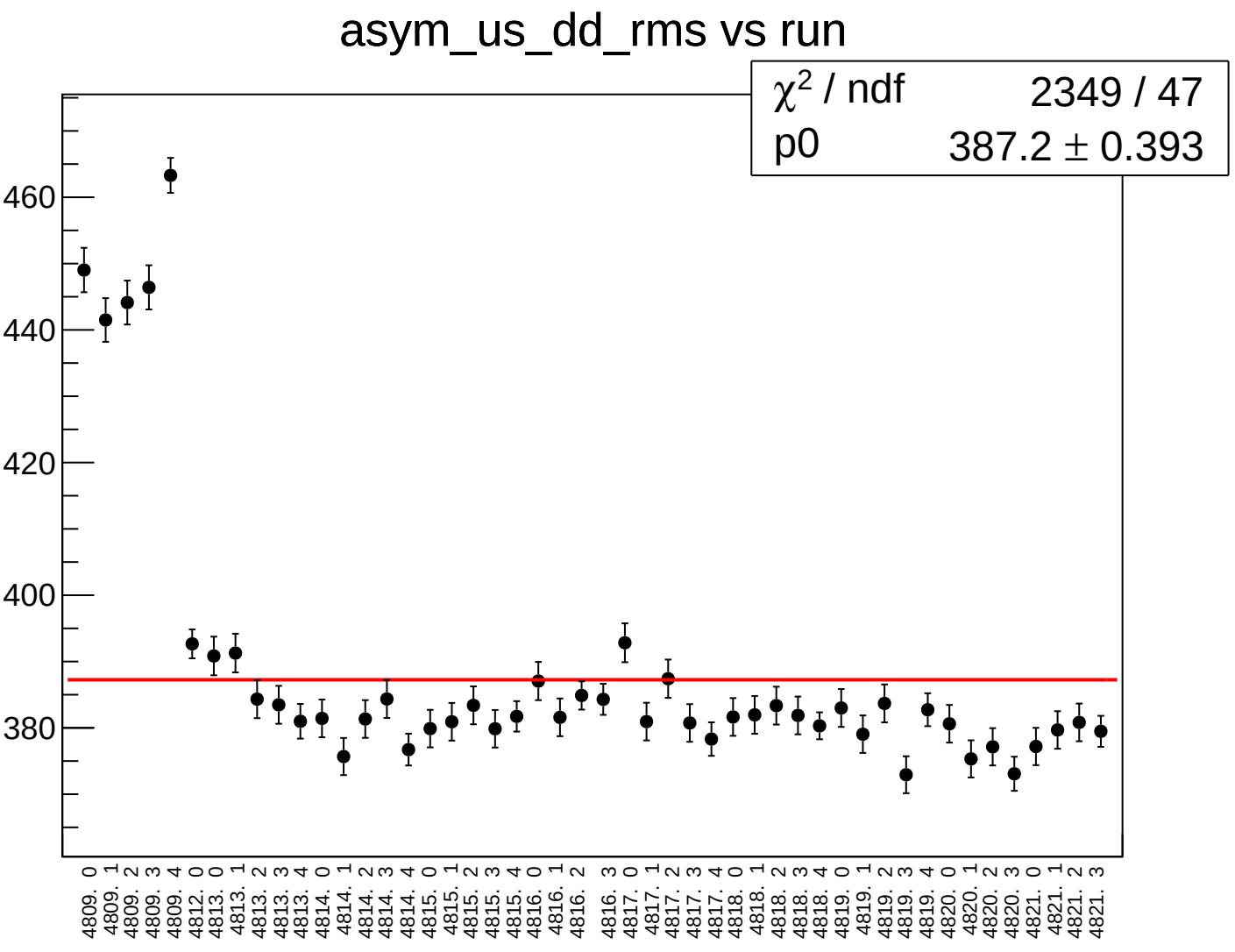

reg_asym_us_dd_rms vs run
χ² / ndf 341.4 / 47
p0 93.04 ± 0.09433
100
98
96
94
92
90
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

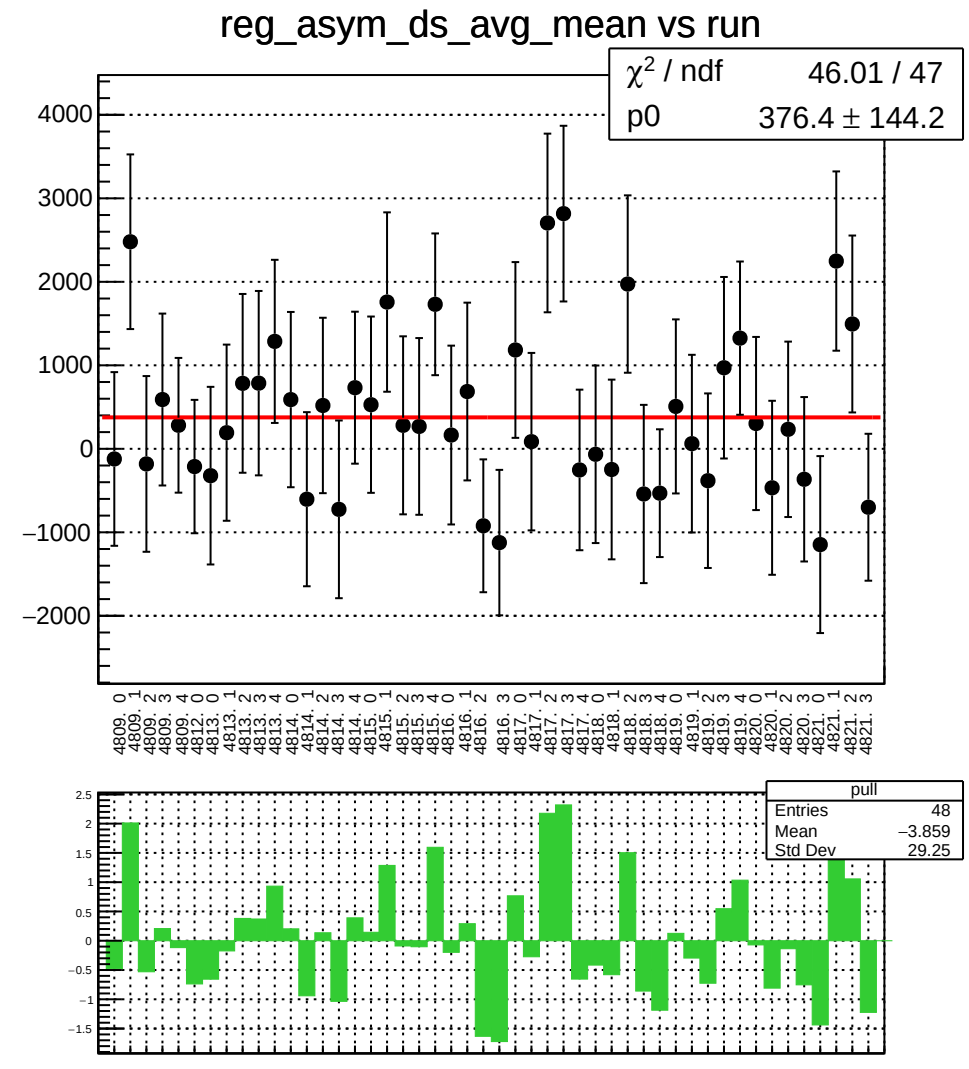

asym_us_dd_correction_mean vs run
χ² / ndf 38.45 / 47
p0 −1755 ± 539.4
10000
5000
0
−5000
−10000
−15000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 80.44
Std Dev 40.98
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 48
Mean −0.02299
Std Dev 0.8947
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

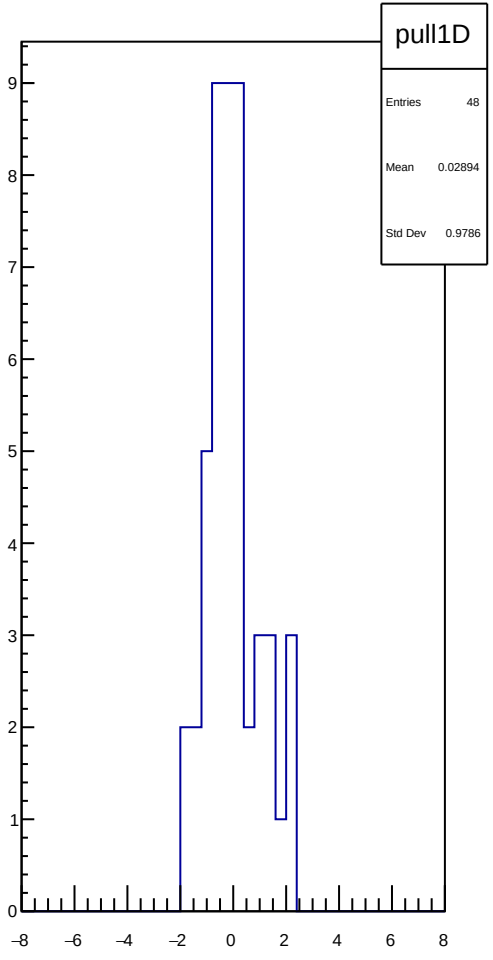

asym_us_dd_correction_rms vs run
χ² / ndf 2580 / 47
p0 375.8 ± 0.3814
460
440
420
400
380
360
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

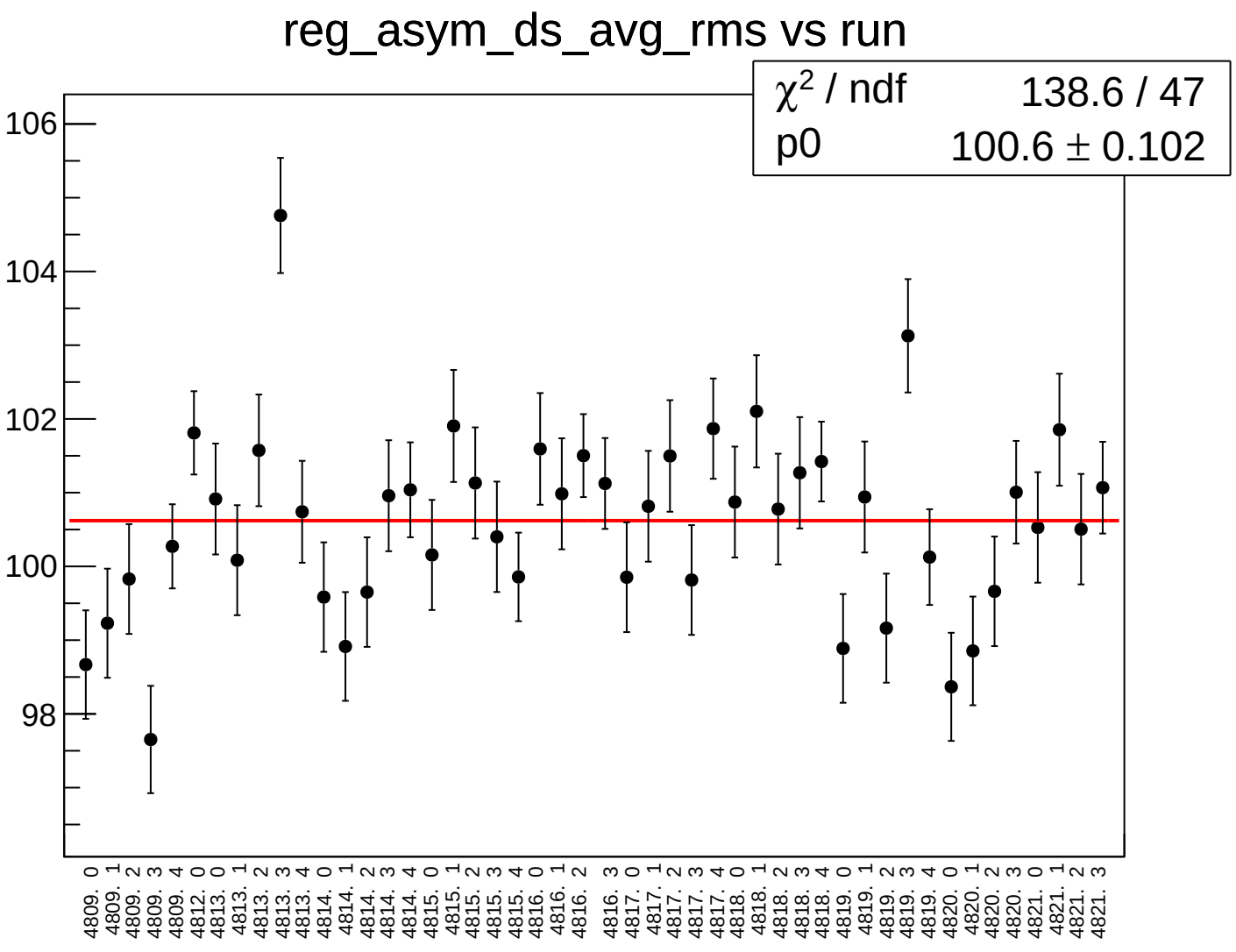

asym_us_dd_mean vs run
χ^2 / ndf 40.47 / 47
p0 1435 ± 555.8
15000
10000
5000
0
−5000
−10000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 64.57
Std Dev 23.78
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

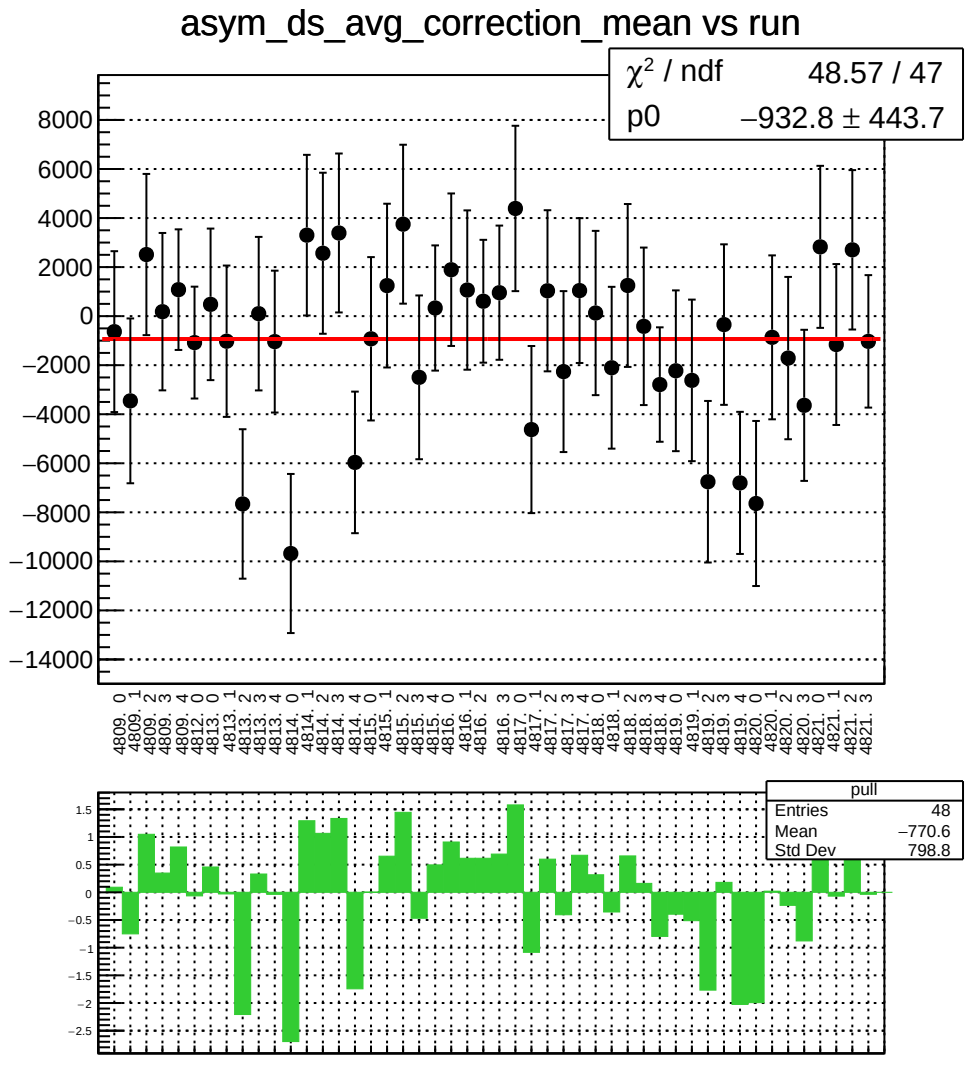

pull1D
Entries 48
Mean 0.02377
Std Dev 0.9179
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

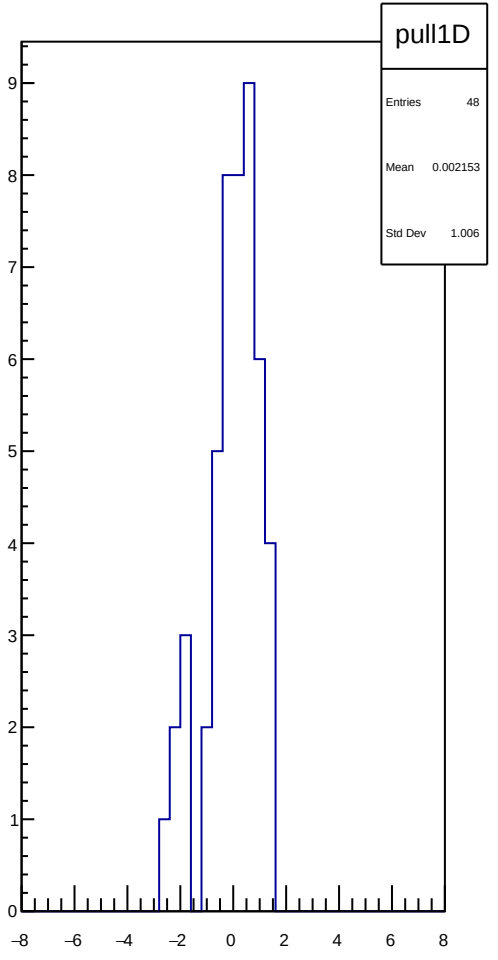

asym_us_dd_rms vs run
χ² / ndf 2349 / 47
p0 387.2 ± 0.393
460
440
420
400
380
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

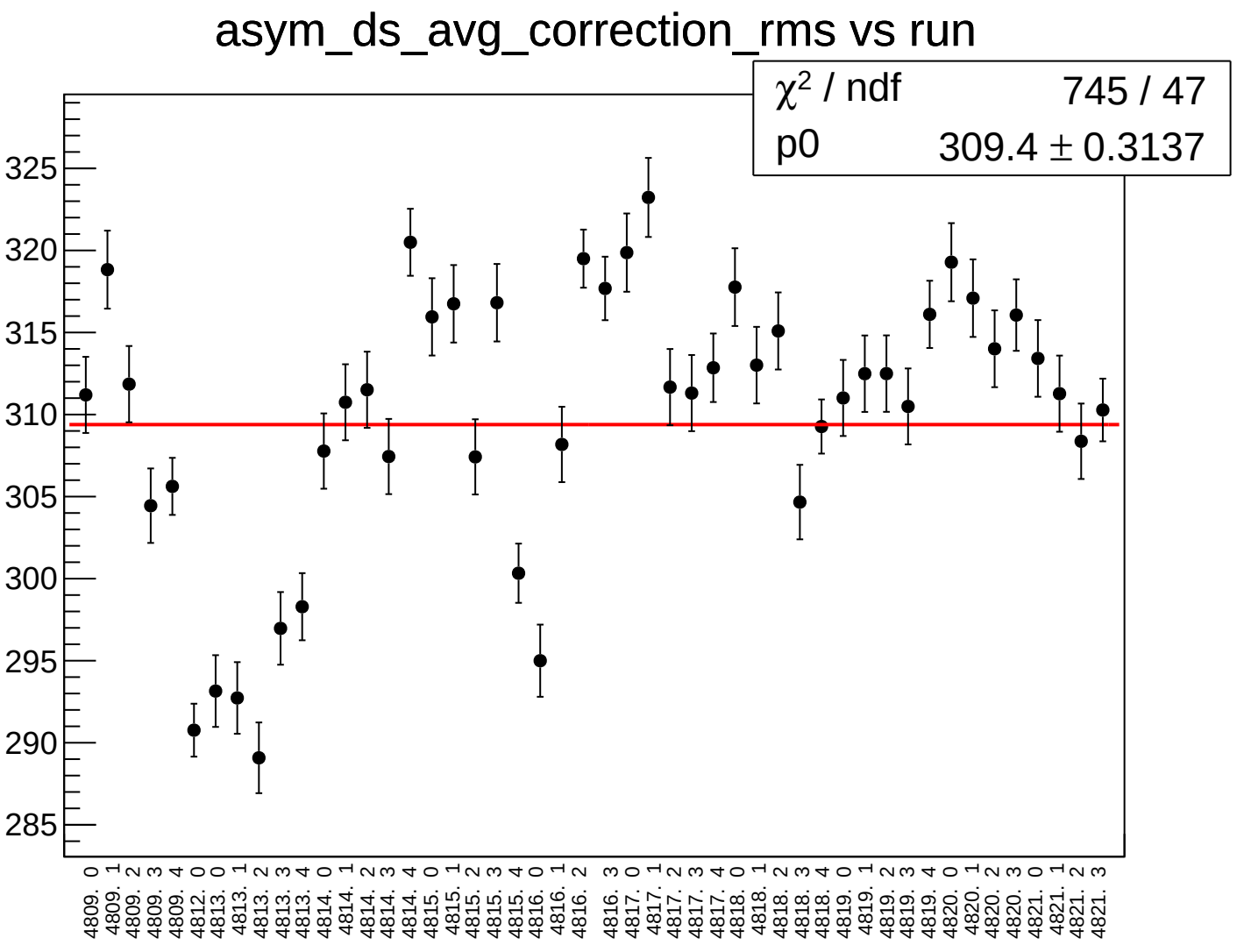

reg_asym_ds_avg_mean vs run
χ² / ndf 46.01 / 47
p0 376.4 ± 144.2
4000
3000
2000
1000
0
−1000
−2000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean −3.859
Std Dev 29.25
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

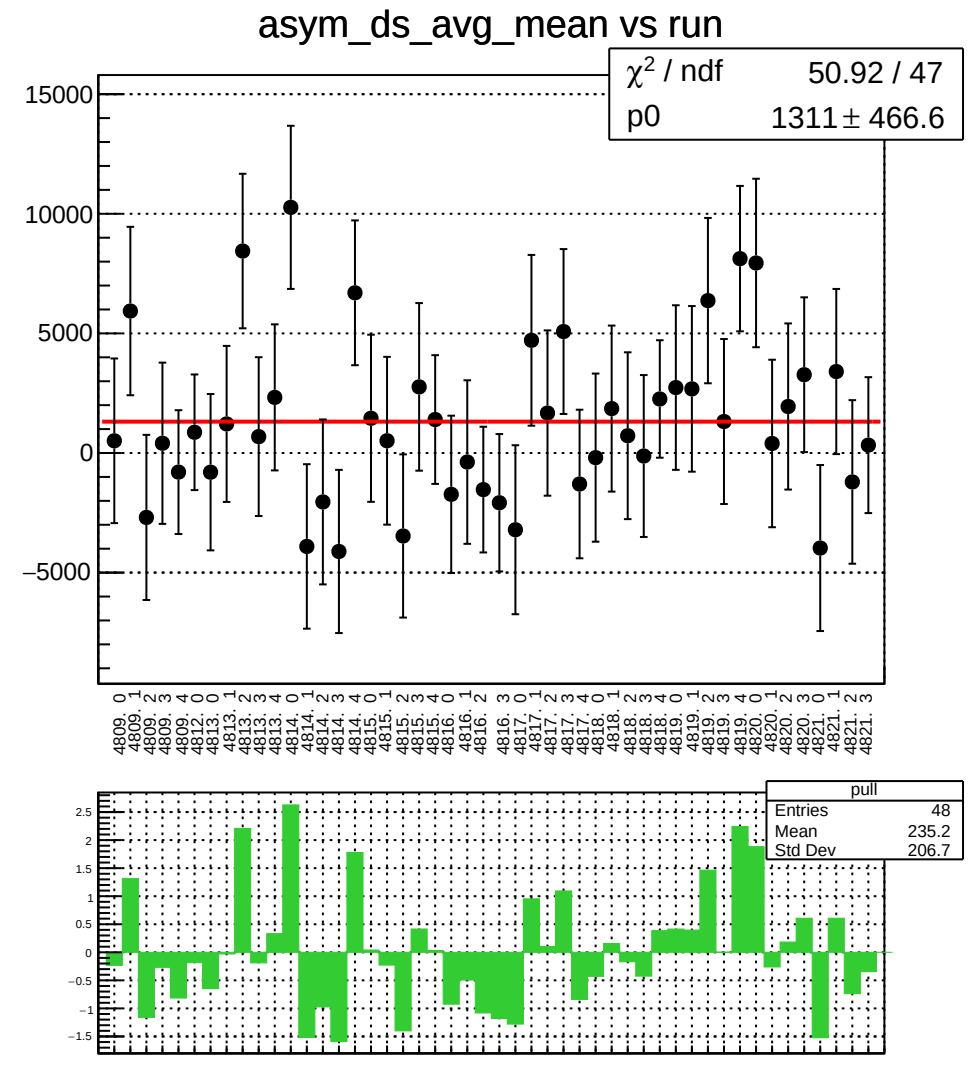

pull1D
Entries 48
Mean 0.02894
Std Dev 0.9786
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

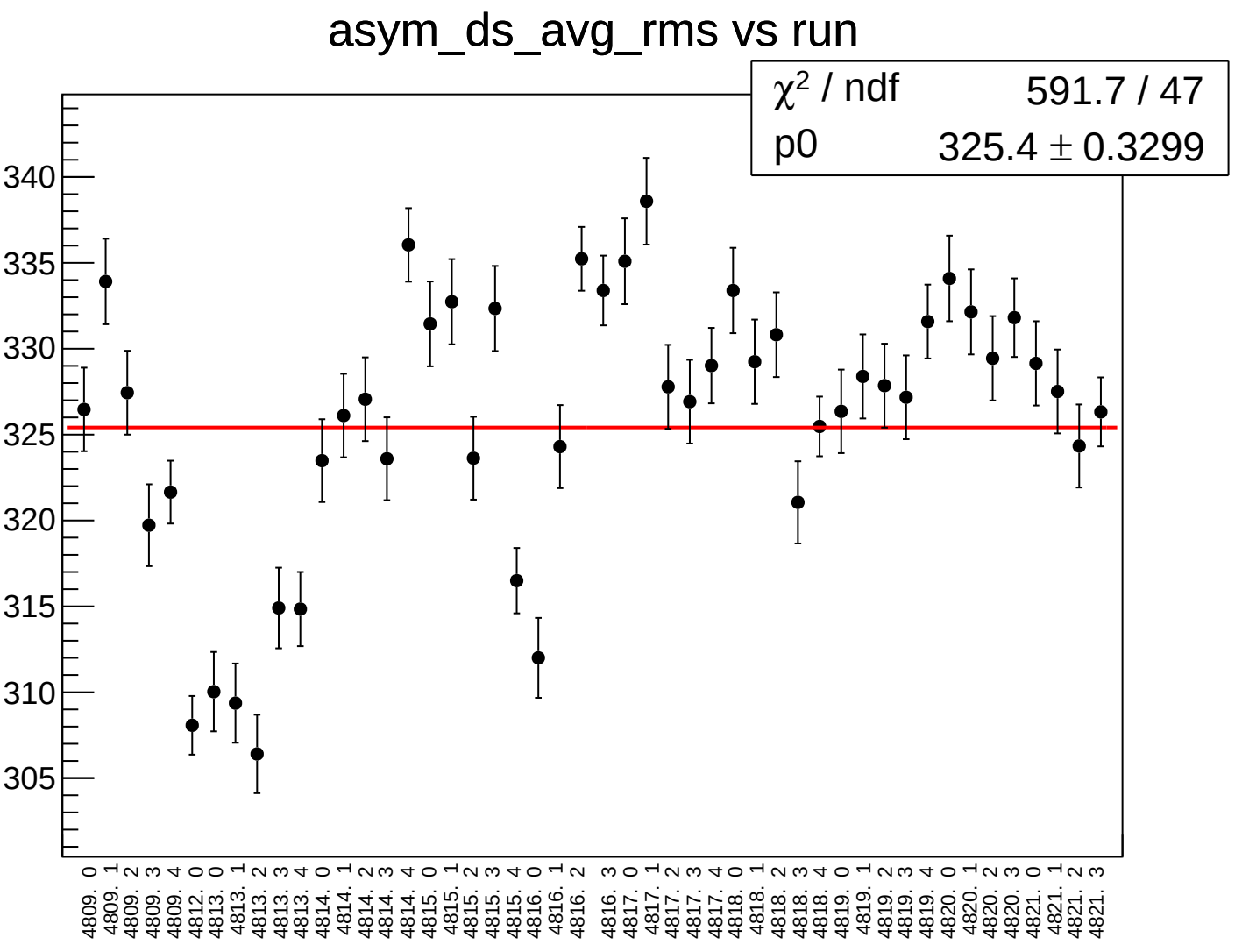

reg_asym_ds_avg_rms vs run
χ² / ndf 138.6 / 47
p0 100.6 ± 0.102
106
104
102
100
98
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

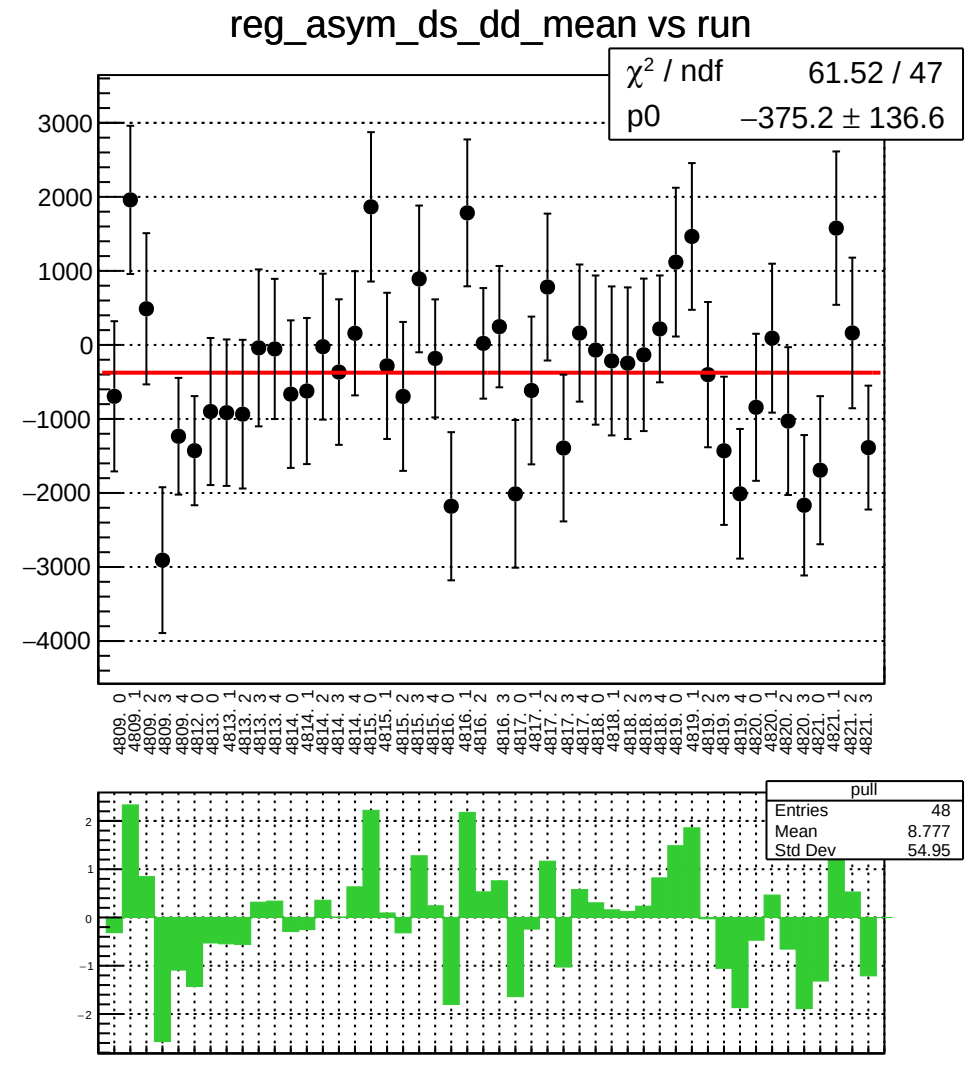

asym_ds_avg_correction_mean vs run
χ² / ndf 48.57 / 47
p0 −932.8 ± 443.7
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
−14000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean −770.6
Std Dev 798.8
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

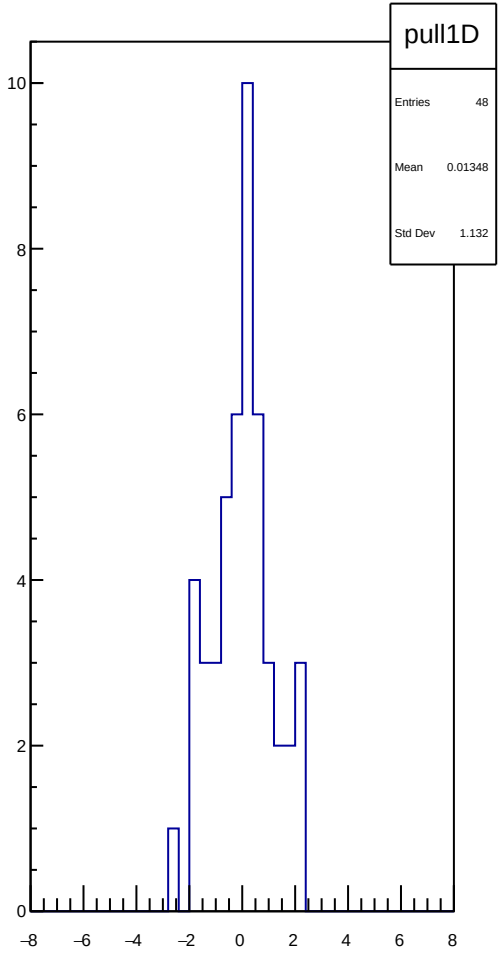

pull1D
Entries 48
Mean 0.002153
Std Dev 1.006
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

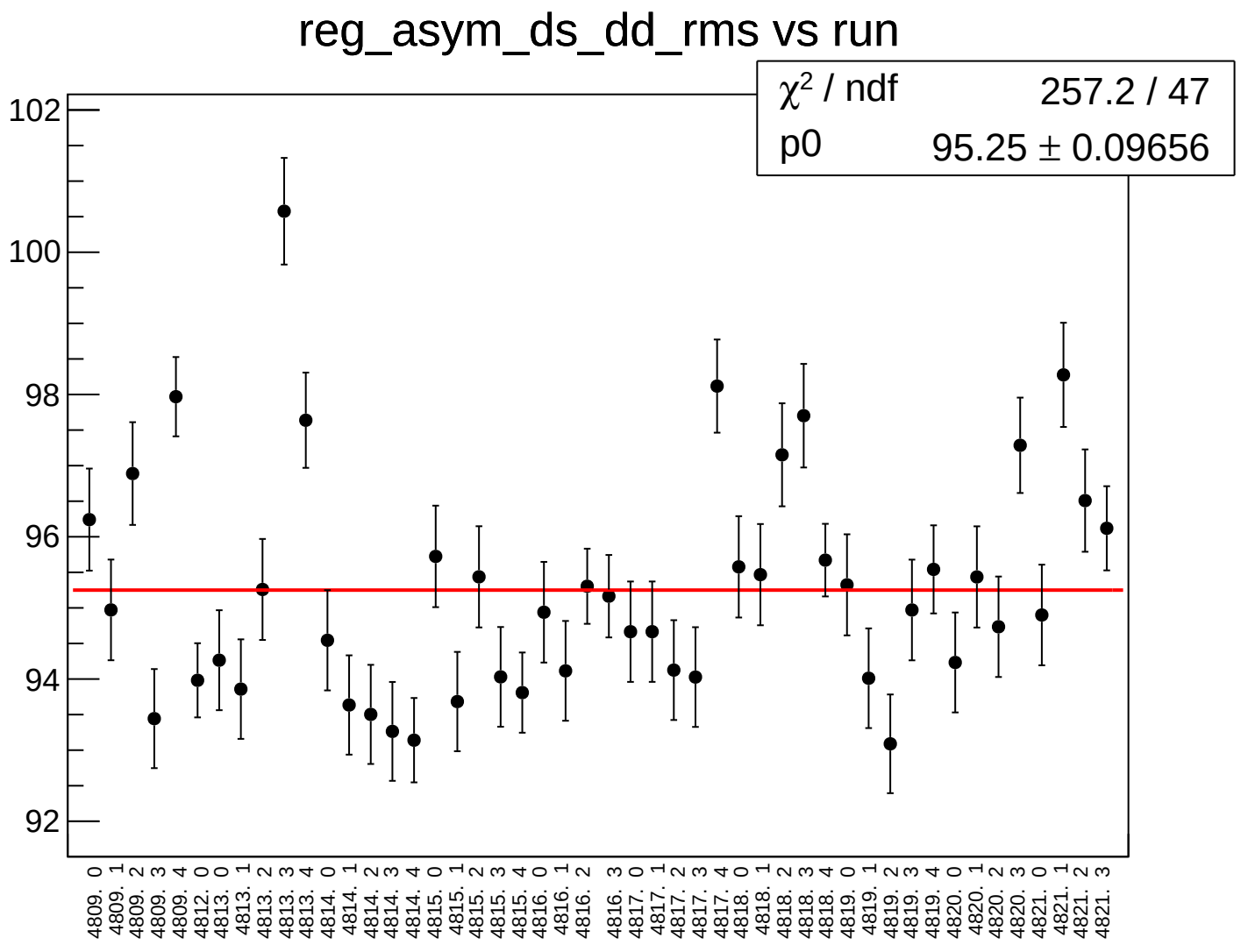

asym_ds_avg_correction_rms vs run
χ² / ndf 745 / 47
p0 309.4 ± 0.3137
325
320
315
310
305
300
295
290
285
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

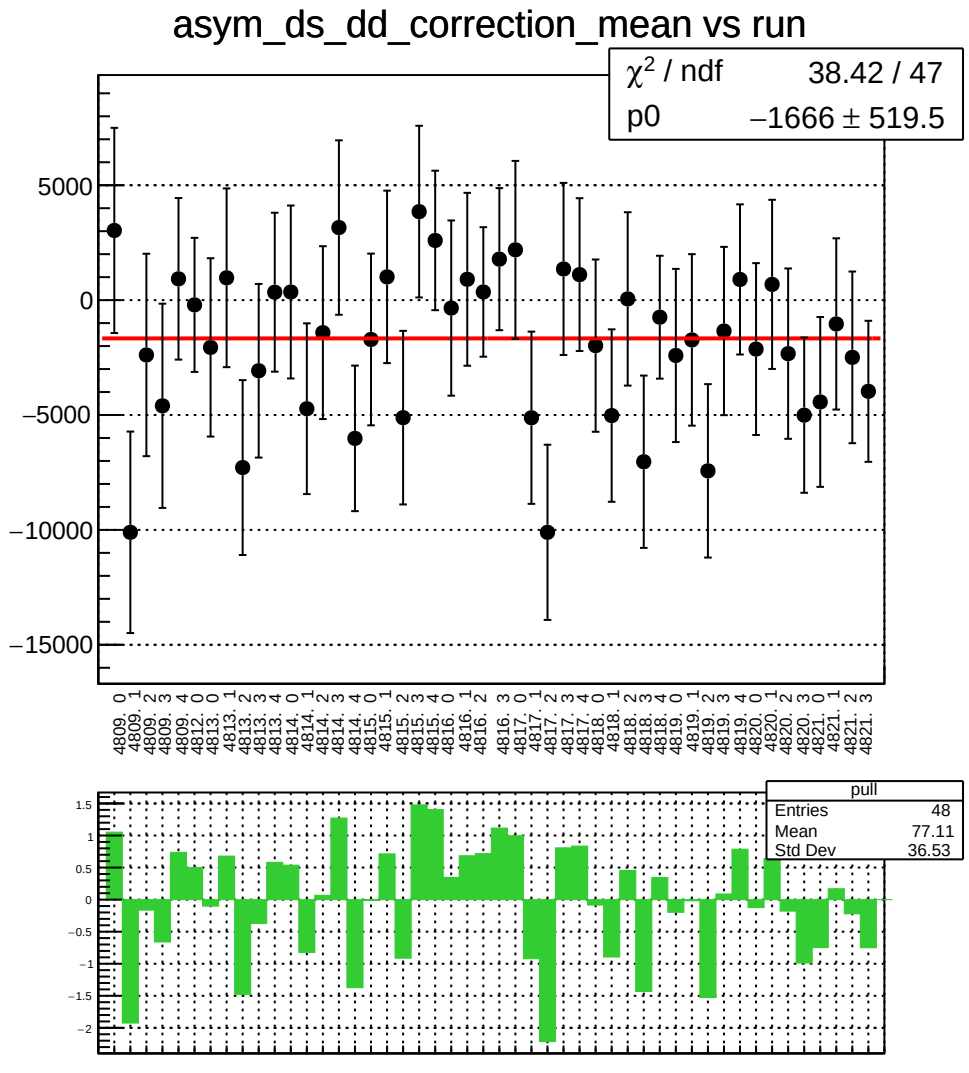

asym_ds_avg_mean vs run
χ² / ndf 50.92 / 47
p0 1311 ± 466.6
15000
10000
5000
0
−5000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 235.2
Std Dev 206.7
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 48
Mean 0.006646
Std Dev 1.03
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

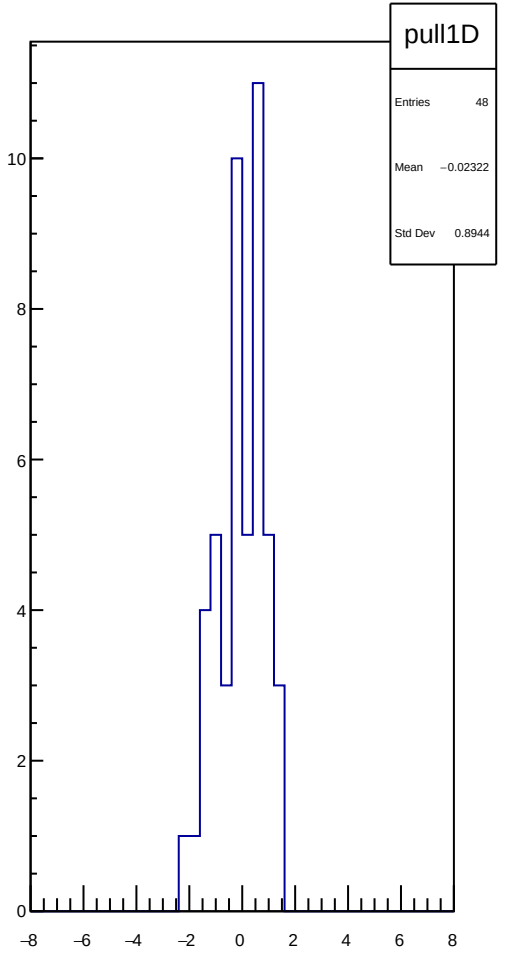

asym_ds_avg_rms vs run
χ² / ndf 591.7 / 47
p0 325.4 ± 0.3299
340
335
330
325
320
315
310
305
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

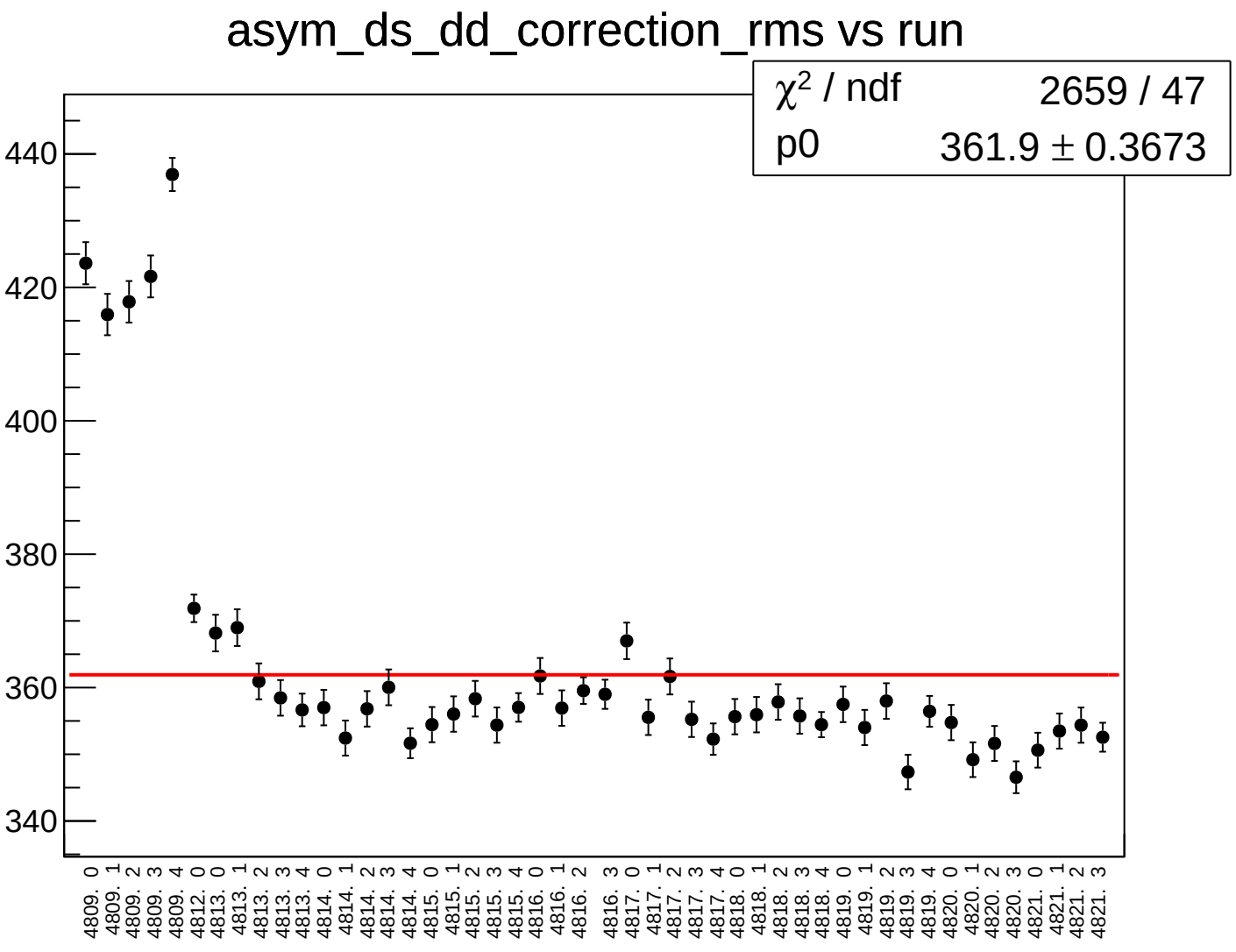

reg_asym_ds_dd_mean vs run
χ² / ndf 61.52 / 47
p0 −375.2 ± 136.6
pull
Entries 48
Mean 8.777
Std Dev 54.95

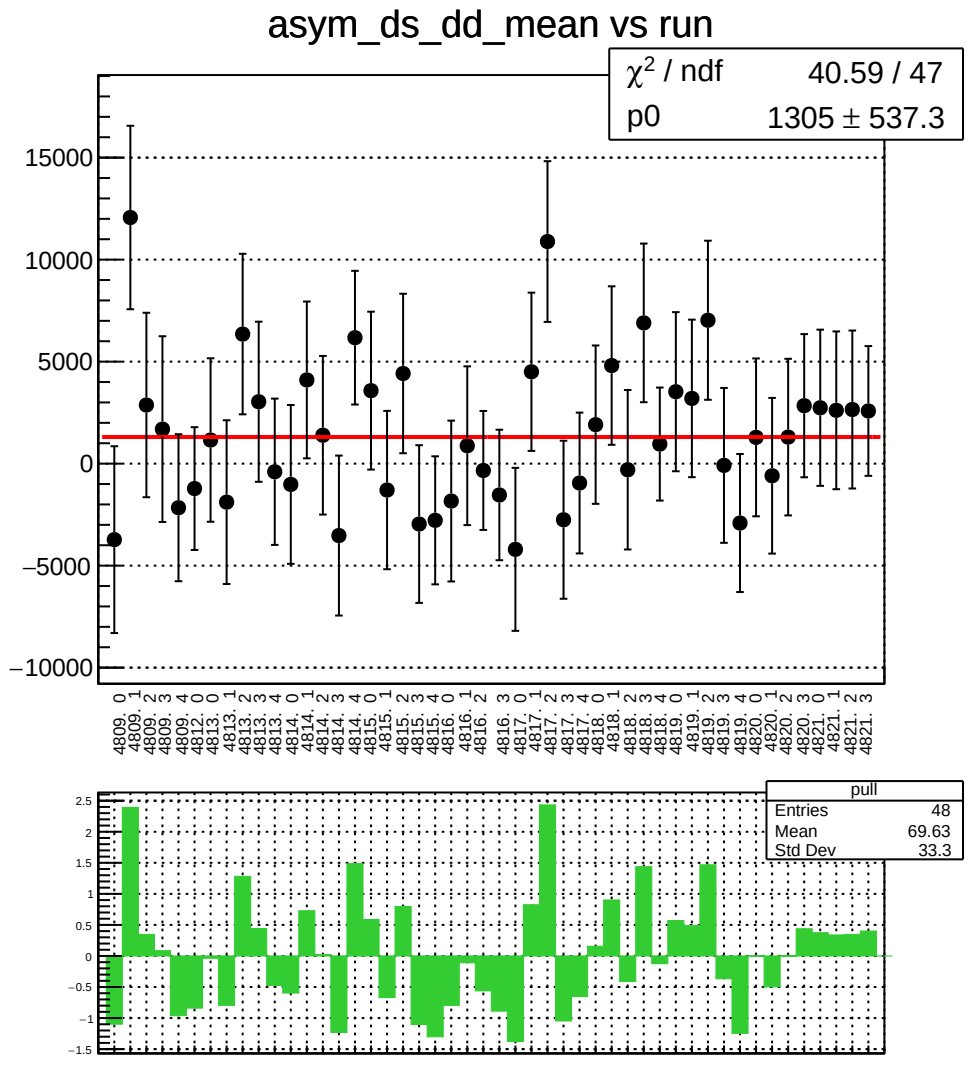

pull1D
Entries 48
Mean 0.01348
Std Dev 1.132


reg_asym_ds_dd_rms vs run
χ² / ndf 257.2 / 47
p0 95.25 ± 0.09656
102
100
98
96
94
92
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3


asym_ds_dd_correction_mean vs run
χ² / ndf 38.42 / 47
p0 −1666 ± 519.5
5000
0
−5000
−10000
−15000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 77.11
Std Dev 36.53
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 48
Mean −0.02322
Std Dev 0.8944
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_ds_dd_correction_rms vs run
χ² / ndf 2659 / 47
p0 361.9 ± 0.3673
440
420
400
380
360
340
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3


asym_ds_dd_mean vs run
χ² / ndf 40.59 / 47
p0 1305 ± 537.3
15000
10000
5000
0
−5000
−10000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
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4815. 2
4815. 3
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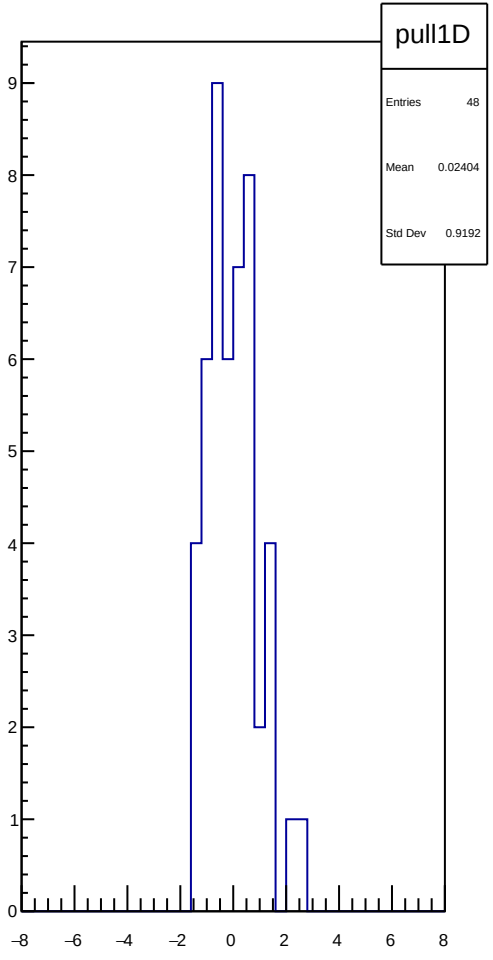
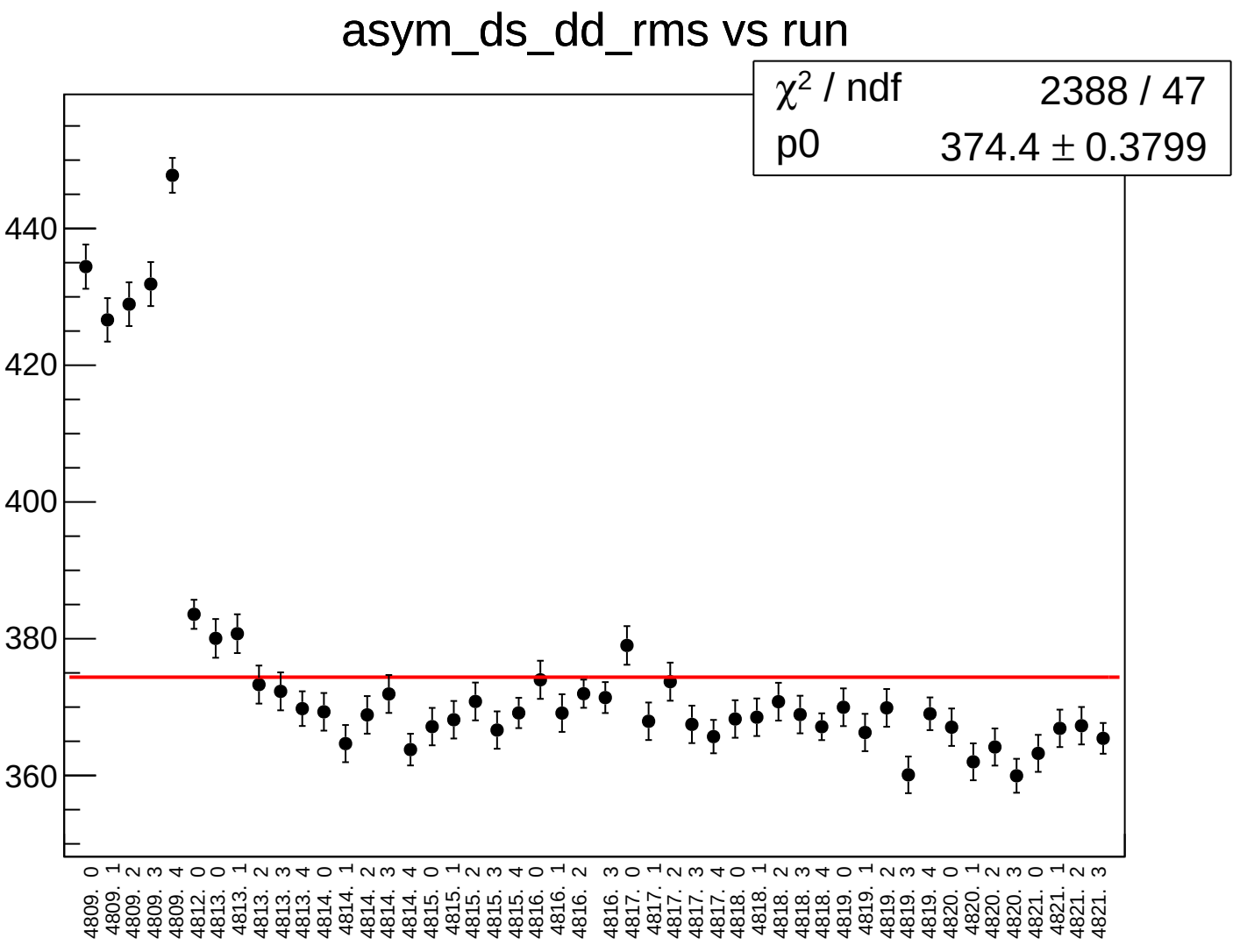
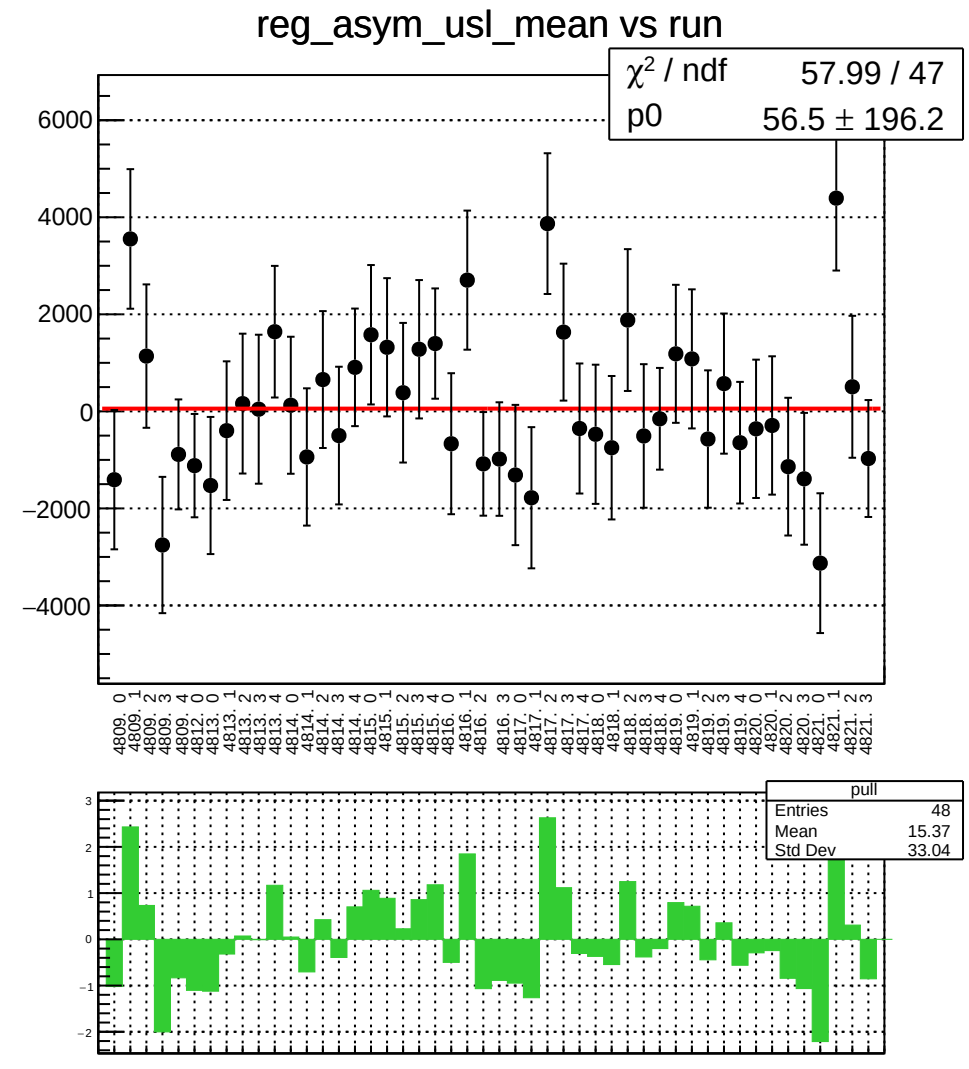
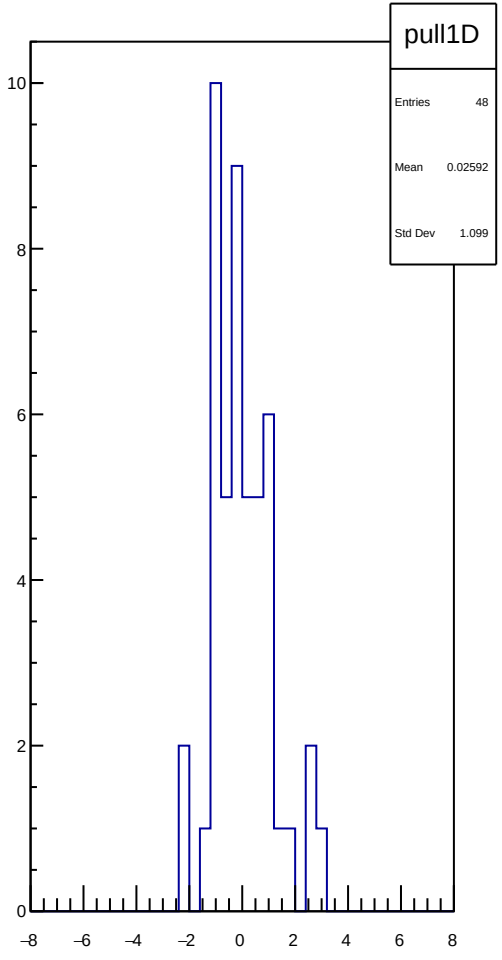
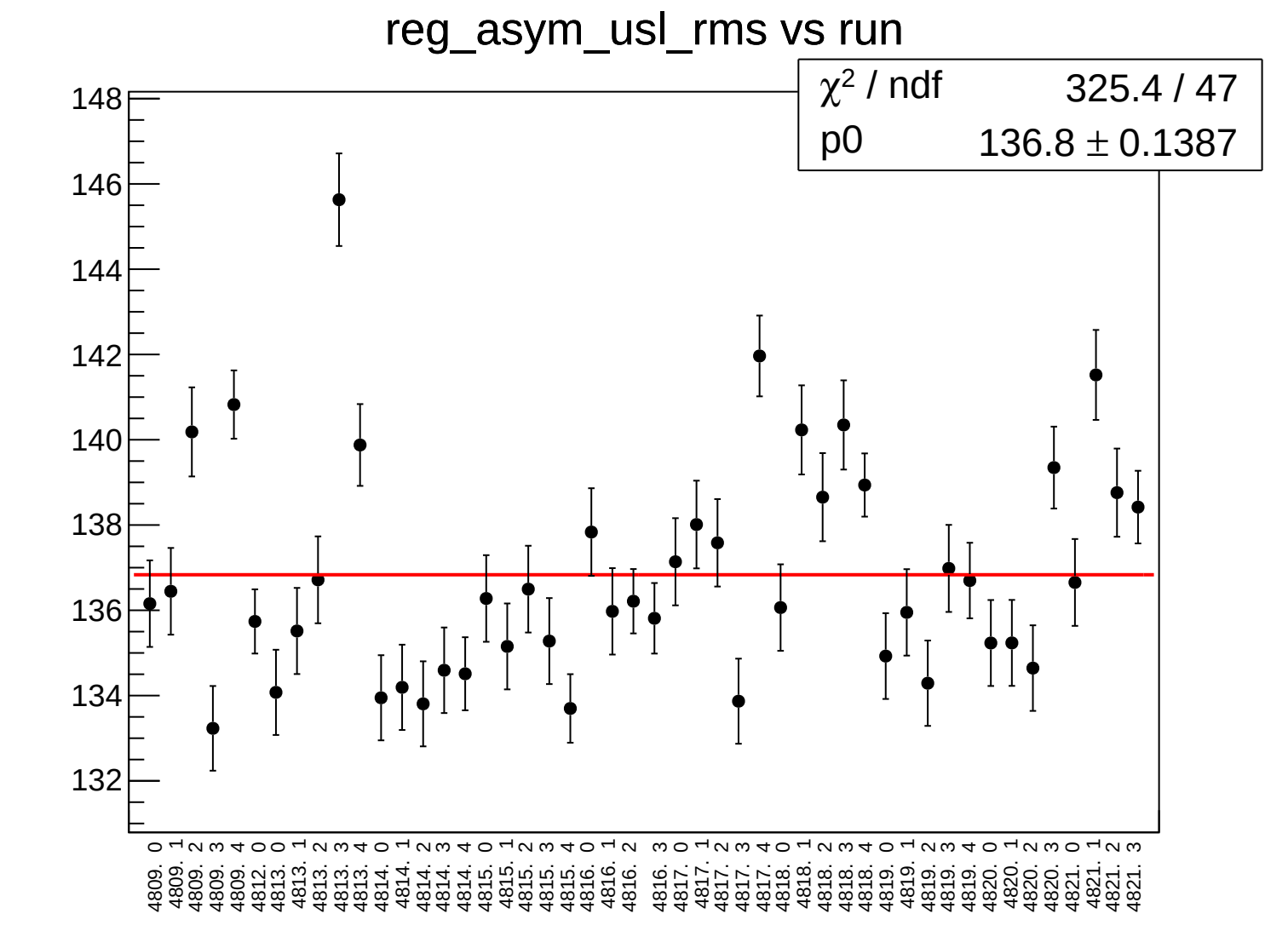
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 69.63
Std Dev 33.3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 48
Mean 0.02404
Std Dev 0.9192
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_ds_dd_rms vs run
χ² / ndf 2388 / 47
p0 374.4 ± 0.3799
440
420
400
380
360
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3


reg_asym_usl_mean vs run
χ² / ndf 57.99 / 47
p0 56.5 ± 196.2
6000
4000
2000
0
−2000
−4000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 15.37
Std Dev 33.04
3
2
1
0
−1
−2


pull1D
Entries 48
Mean 0.02592
Std Dev 1.099
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_usl_rms vs run
χ² / ndf 325.4 / 47
p0 136.8 ± 0.1387
148
146
144
142
140
138
136
134
132
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
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4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
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4816. 2
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4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
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4820. 0
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4820. 2
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4821. 0
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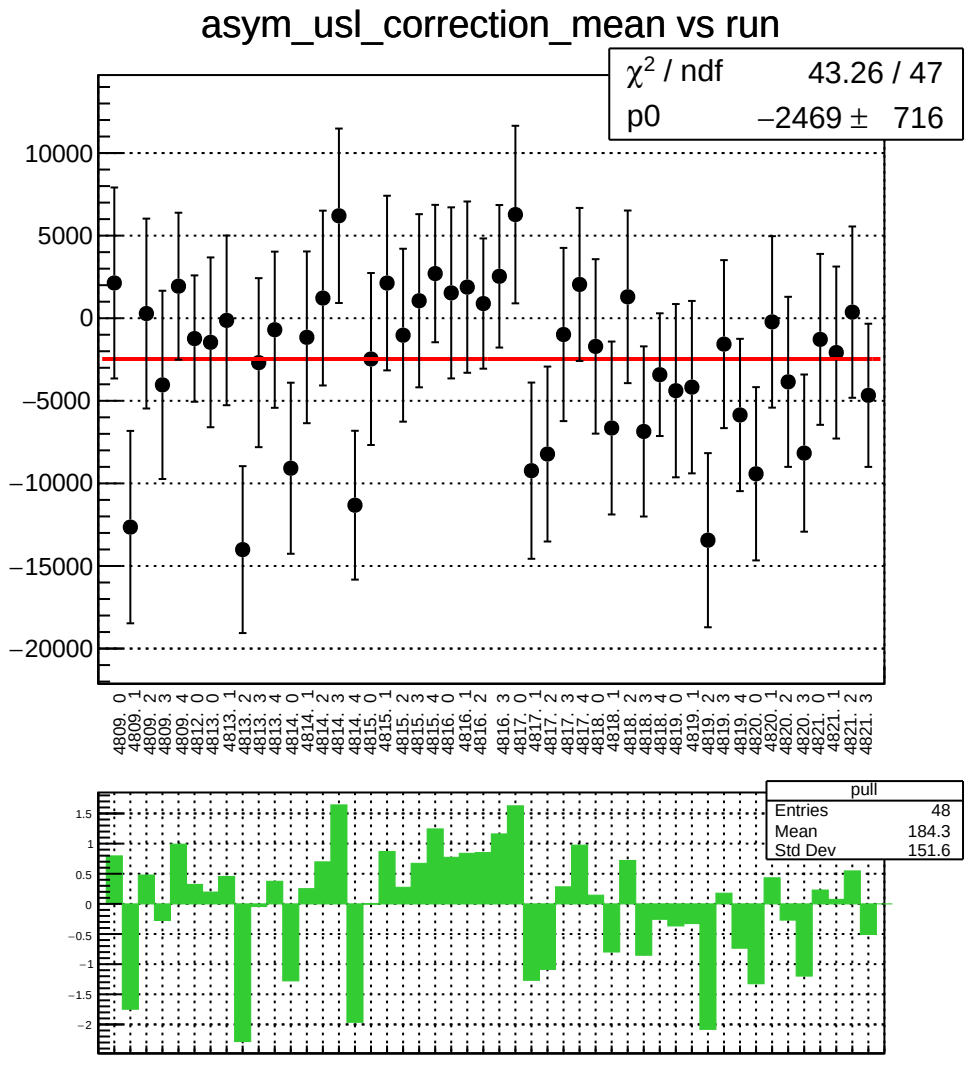
4821. 2
4821. 3


asym_usl_correction_mean vs run
χ² / ndf 43.26 / 47
p0 −2469 ± 716
10000
5000
0
−5000
−10000
−15000
−20000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
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4813. 2
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4814. 0
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4814. 3
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4815. 0
4815. 1
4815. 2
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4816. 3
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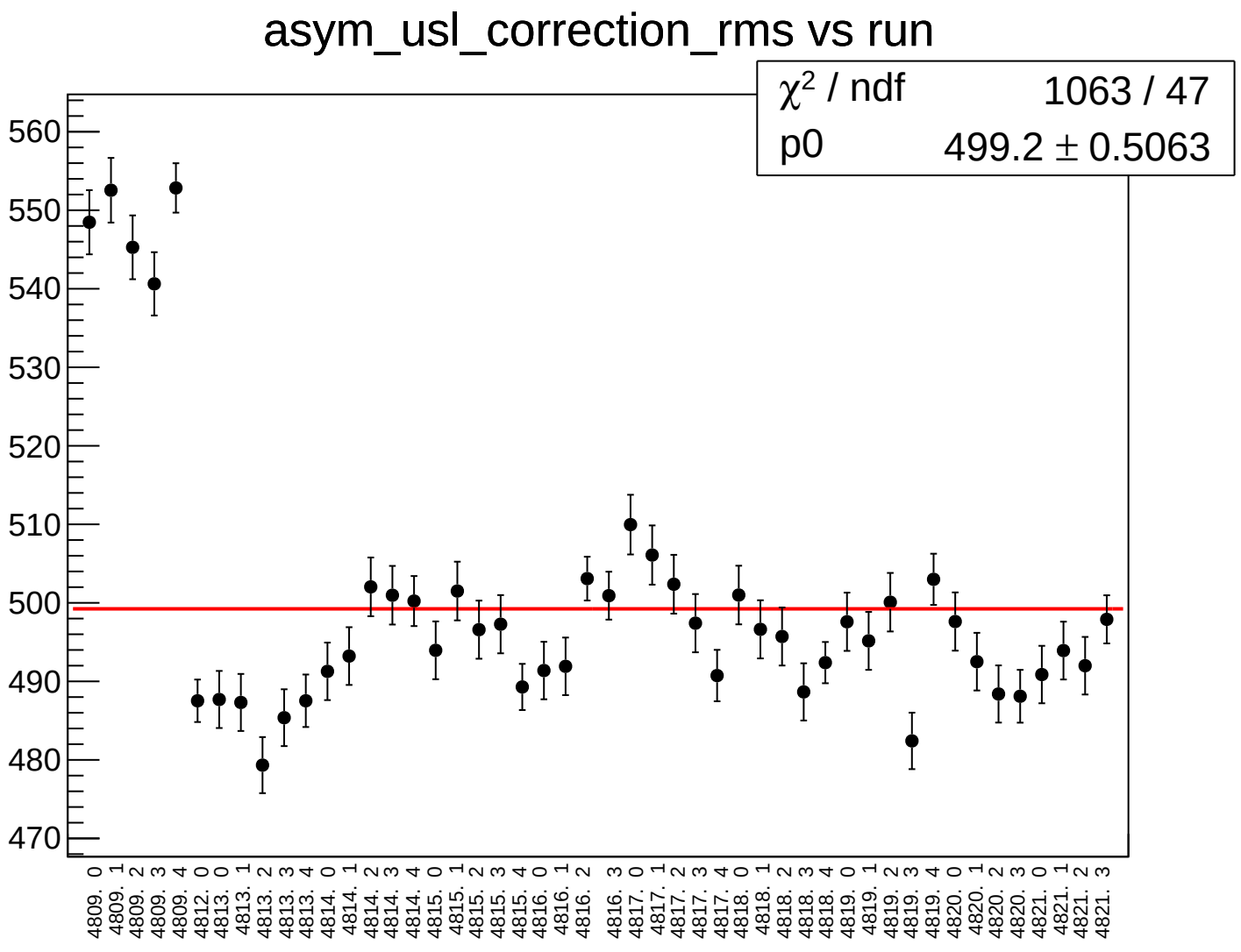
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 184.3
Std Dev 151.6
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 48
Mean −0.01154
Std Dev 0.9493
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_correction_rms vs run
χ² / ndf 1063 / 47
p0 499.2 ± 0.5063
560
550
540
530
520
510
500
490
480
470
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
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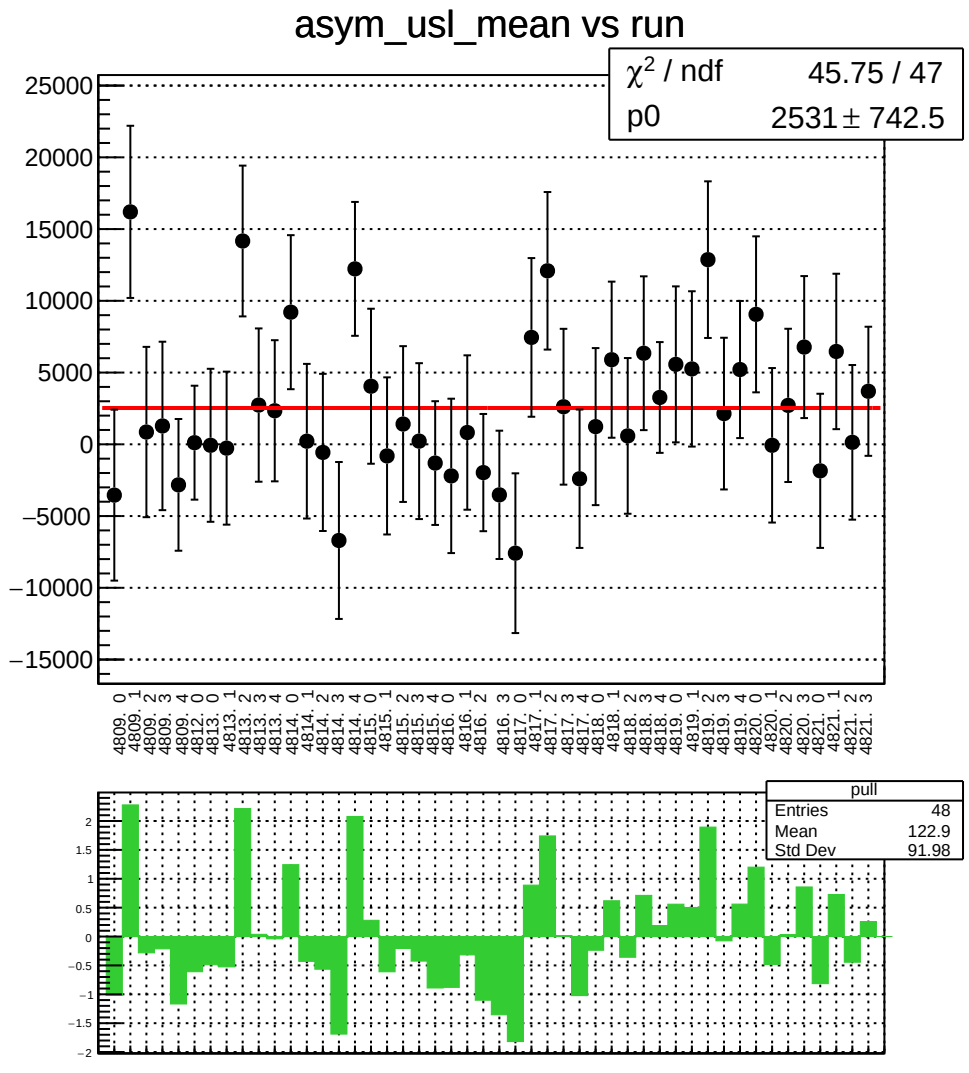
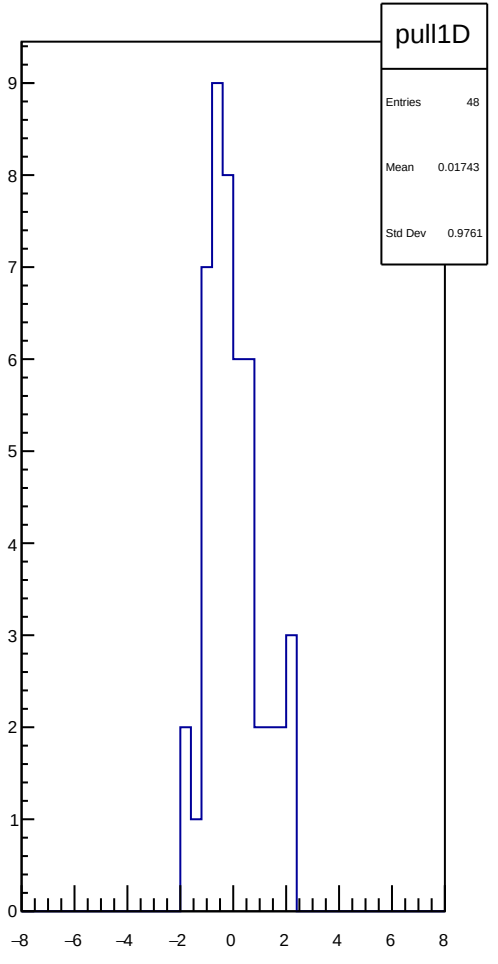
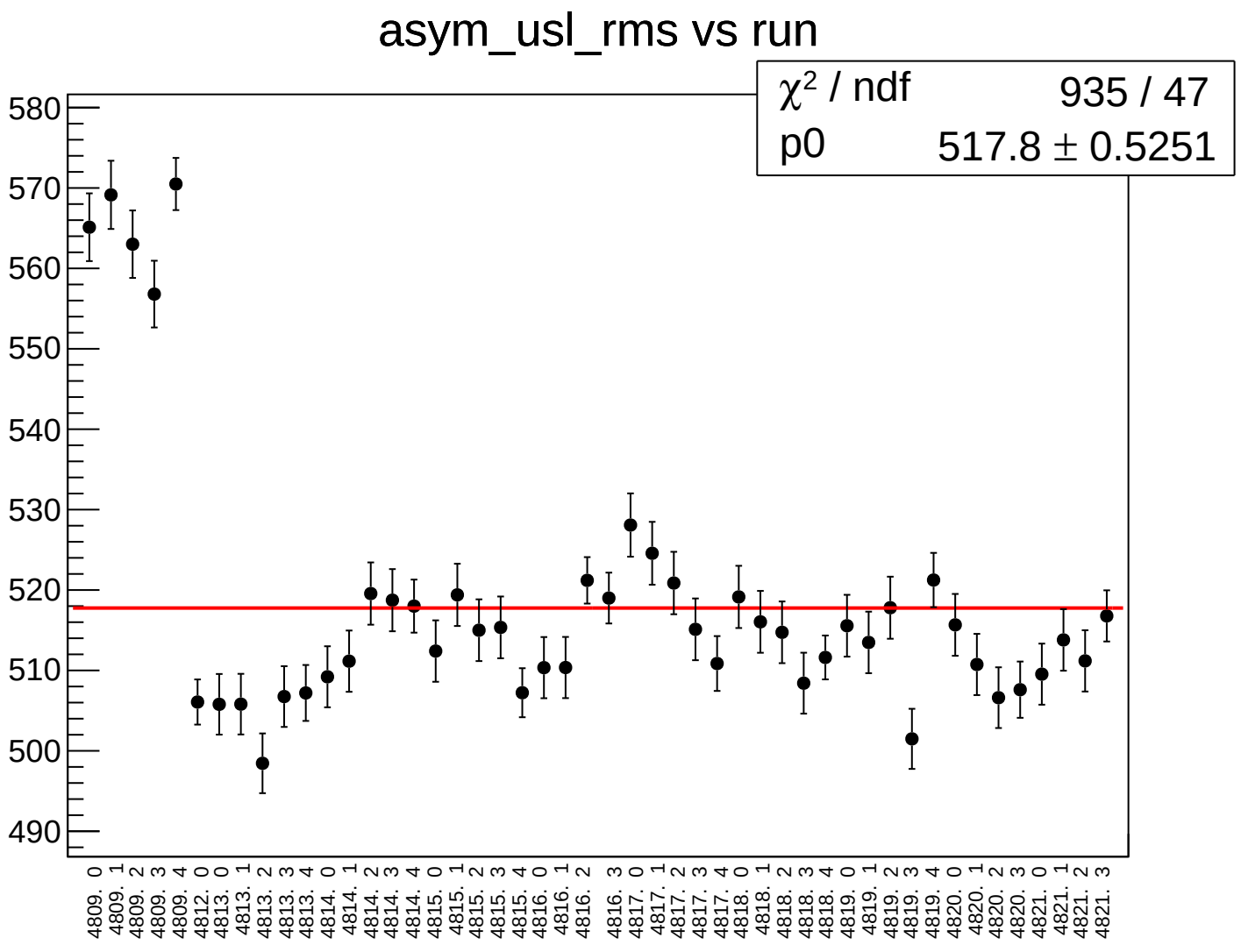
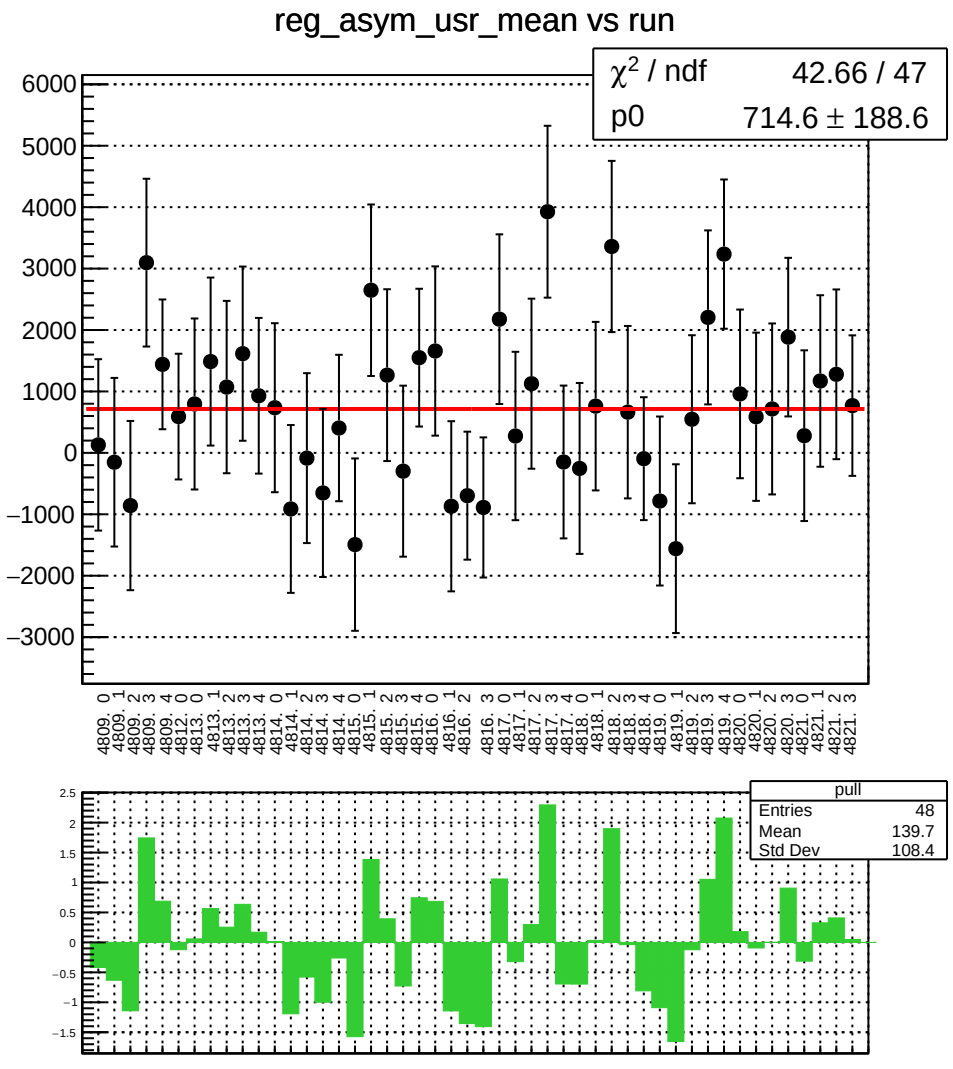
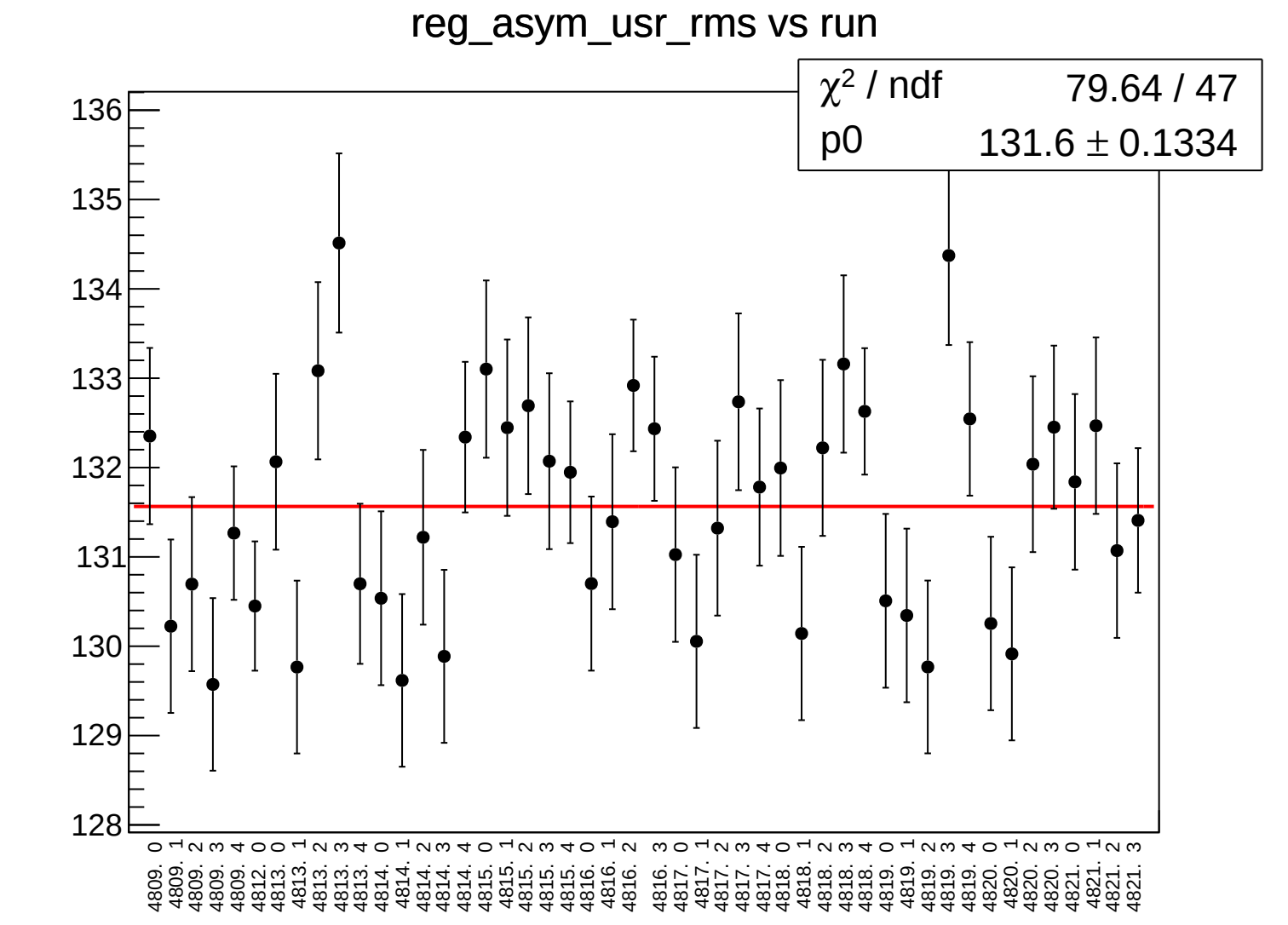
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

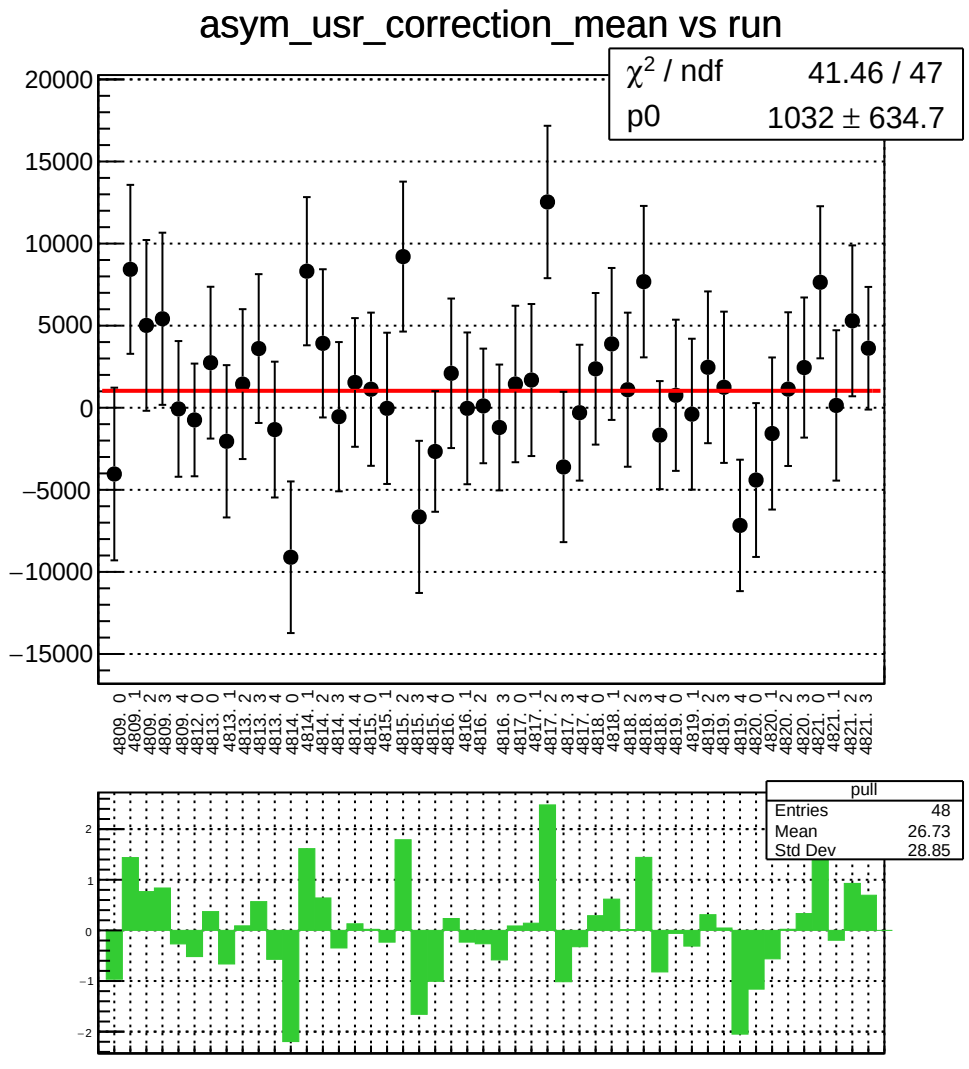

asym_usl_mean vs run
χ² / ndf 45.75 / 47
p0 2531 ± 742.5
pull
Entries 48
Mean 122.9
Std Dev 91.98

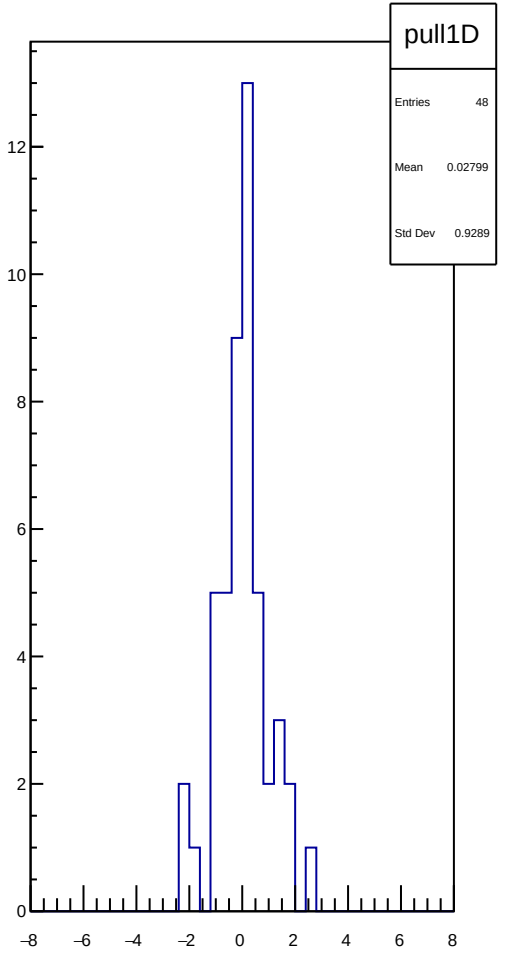

pull1D
Entries 48
Mean 0.01743
Std Dev 0.9761

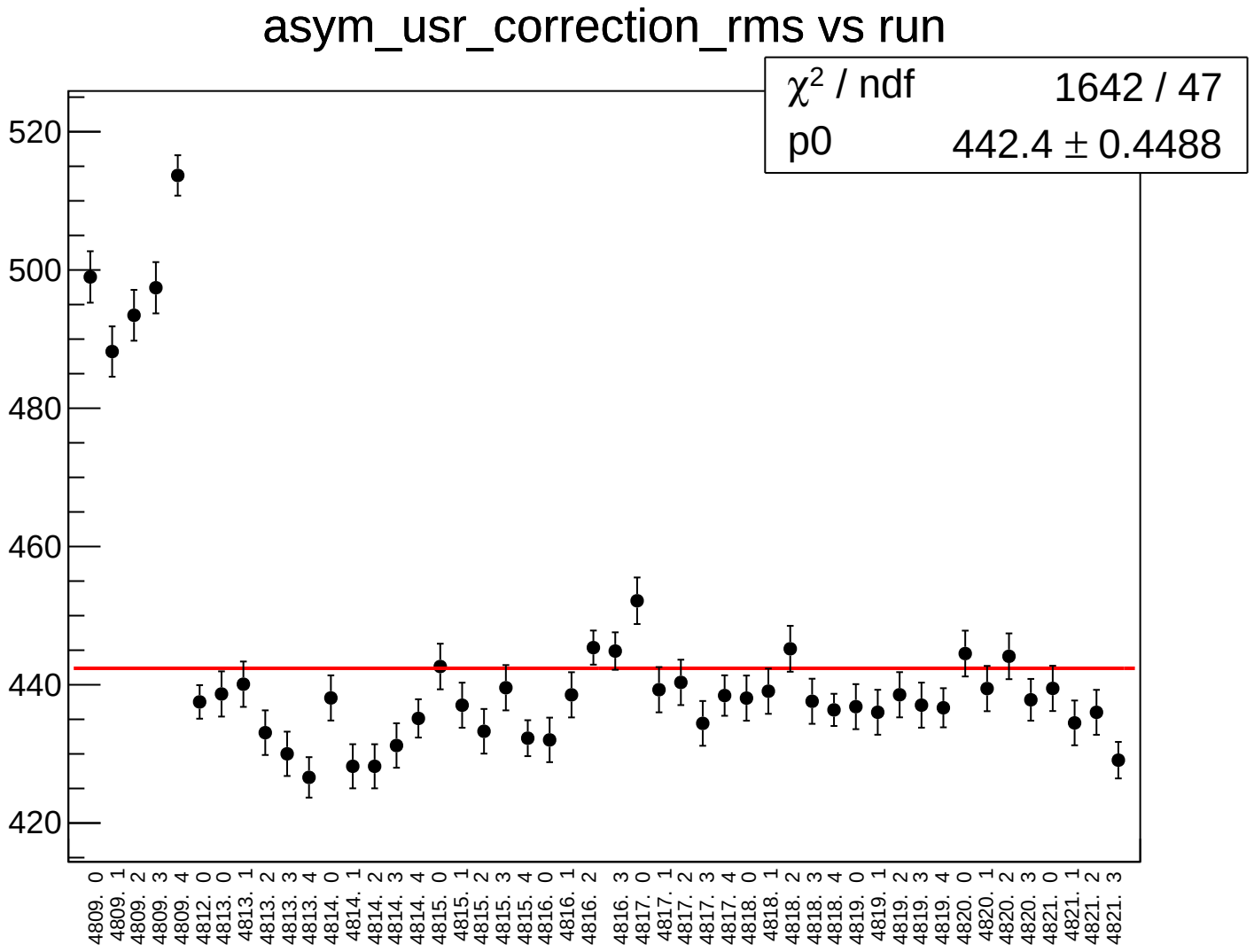

asym_usl_rms vs run
χ² / ndf 935 / 47
p0 517.8 ± 0.5251
580
570
560
550
540
530
520
510
500
490
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

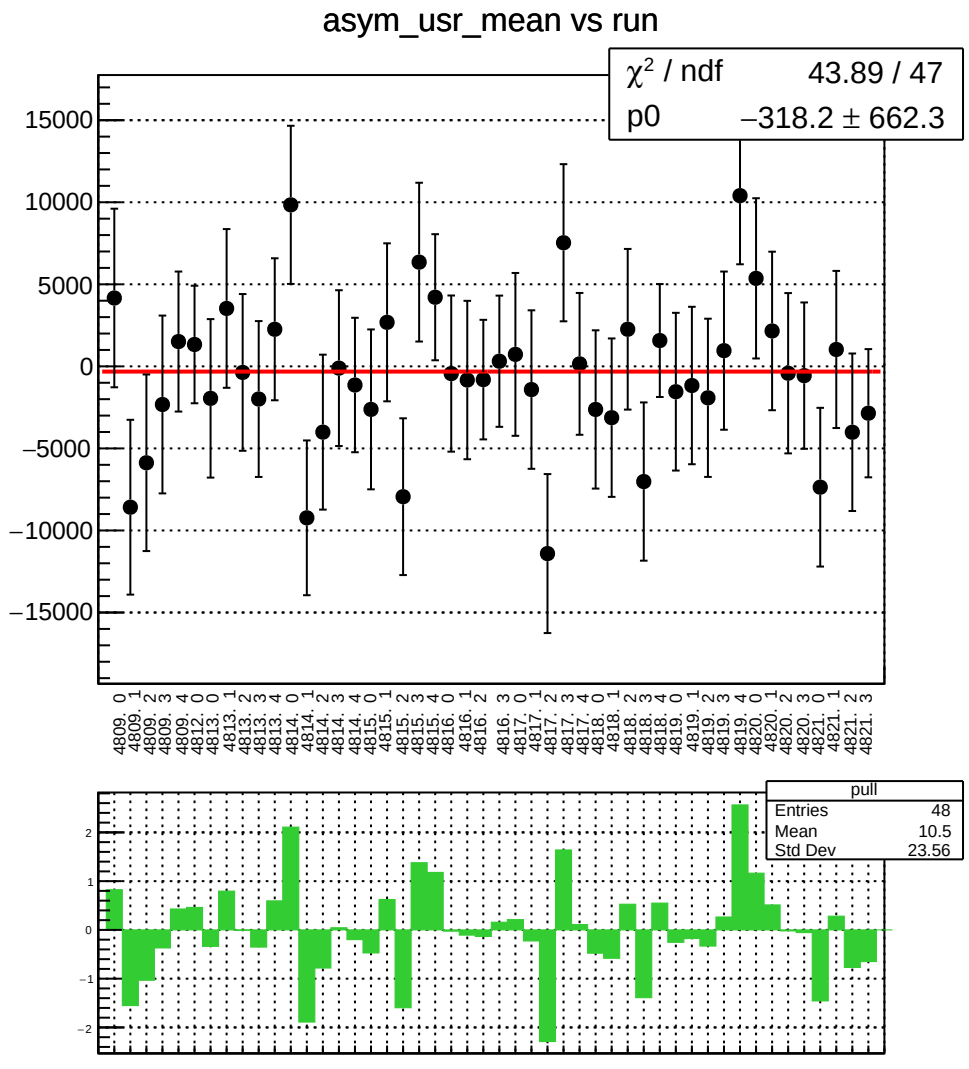

reg_asym_usr_mean vs run
χ² / ndf 42.66 / 47
p0 714.6 ± 188.6
6000
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 139.7
Std Dev 108.4
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 48
Mean 0.01122
Std Dev 0.9427
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

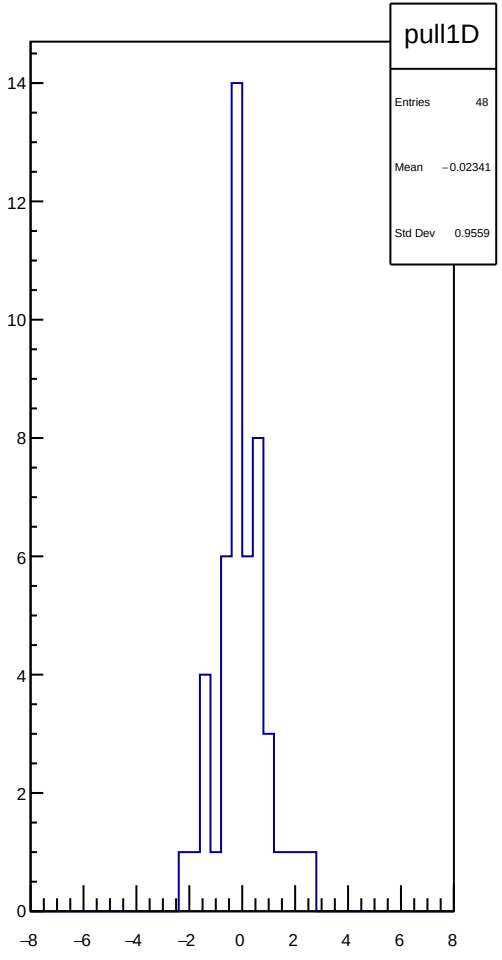

reg_asym_usr_rms vs run
χ² / ndf 79.64 / 47
p0 131.6 ± 0.1334
136
135
134
133
132
131
130
129
128
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

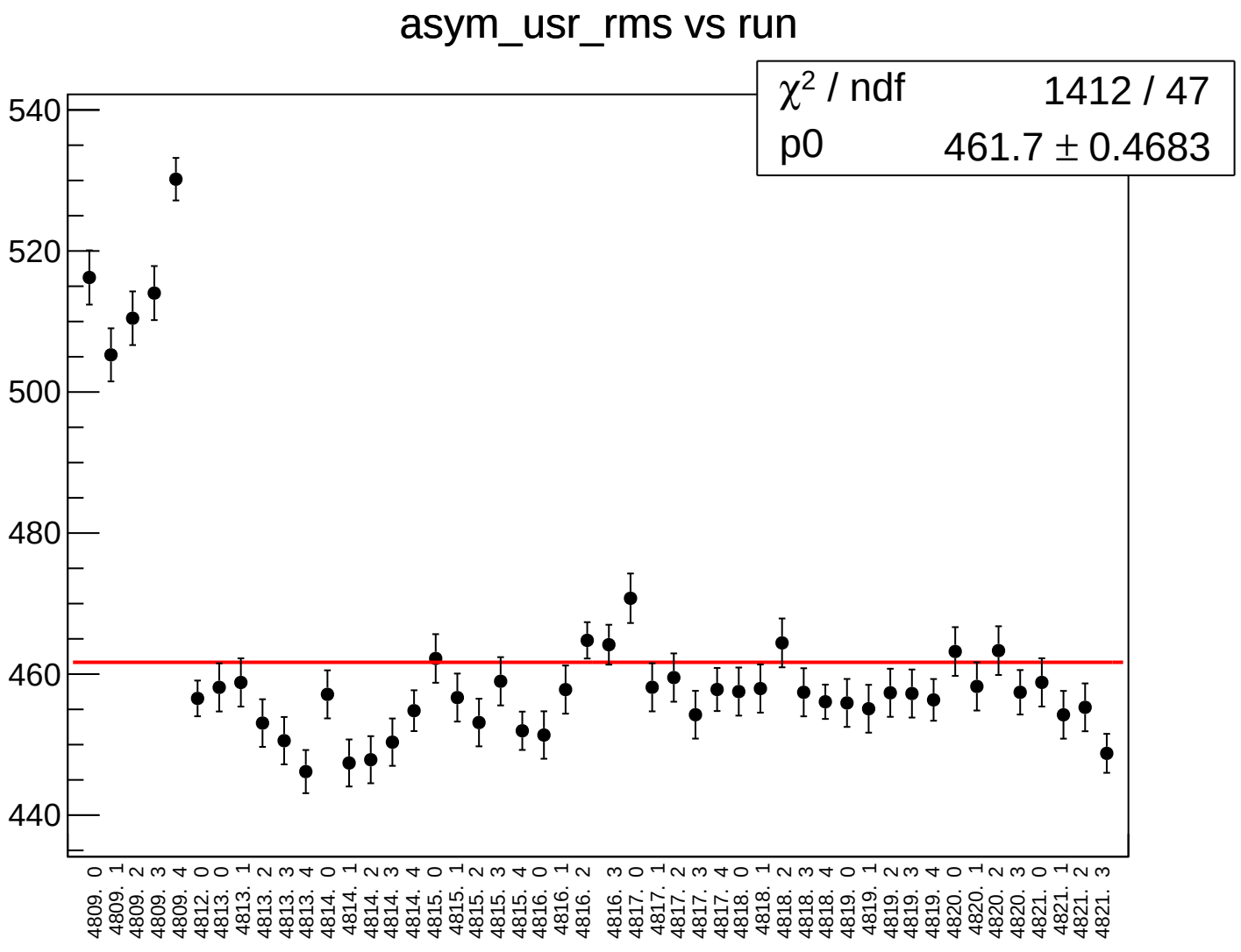

asym_usr_correction_mean vs run
χ² / ndf 41.46 / 47
p0 1032 ± 634.7
20000
15000
10000
5000
0
−5000
−10000
−15000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 26.73
Std Dev 28.85
2
1
0
−1
−2

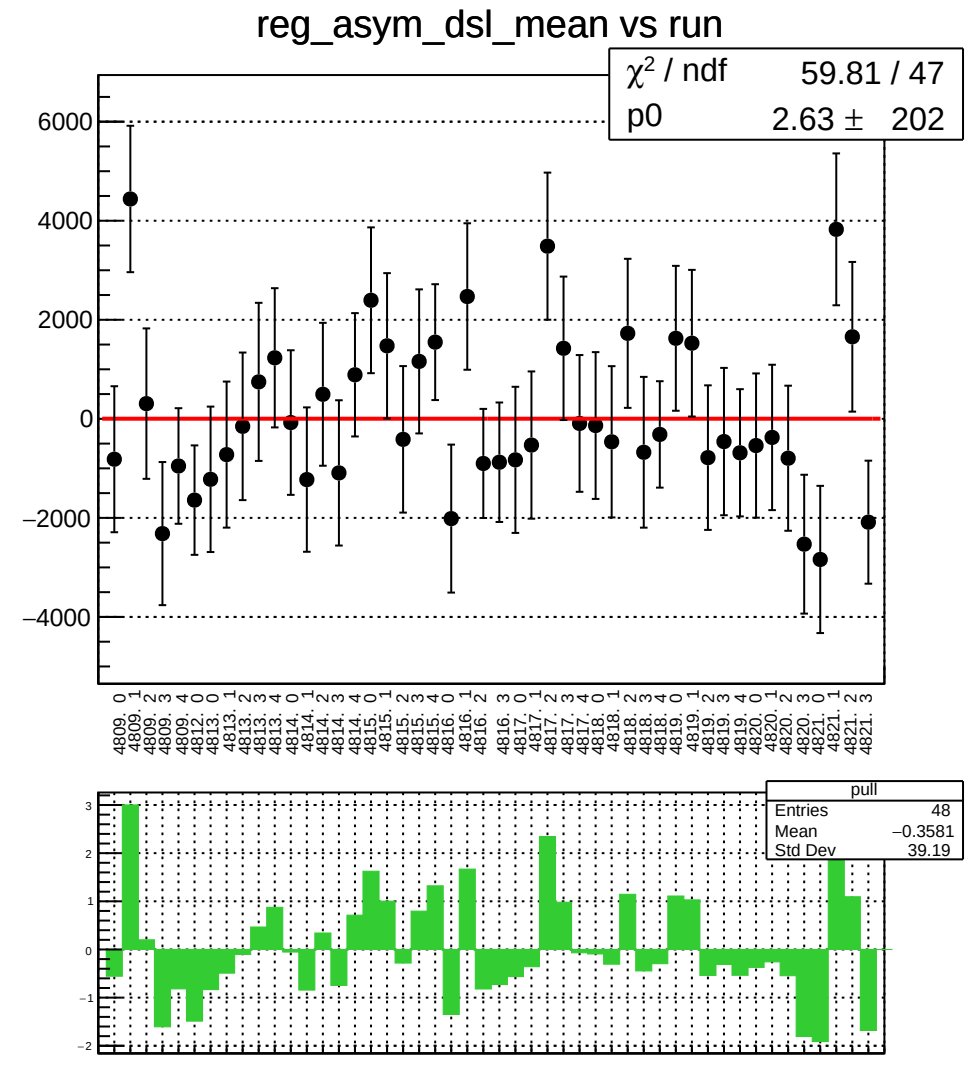

pull1D
Entries 48
Mean 0.02799
Std Dev 0.9289
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

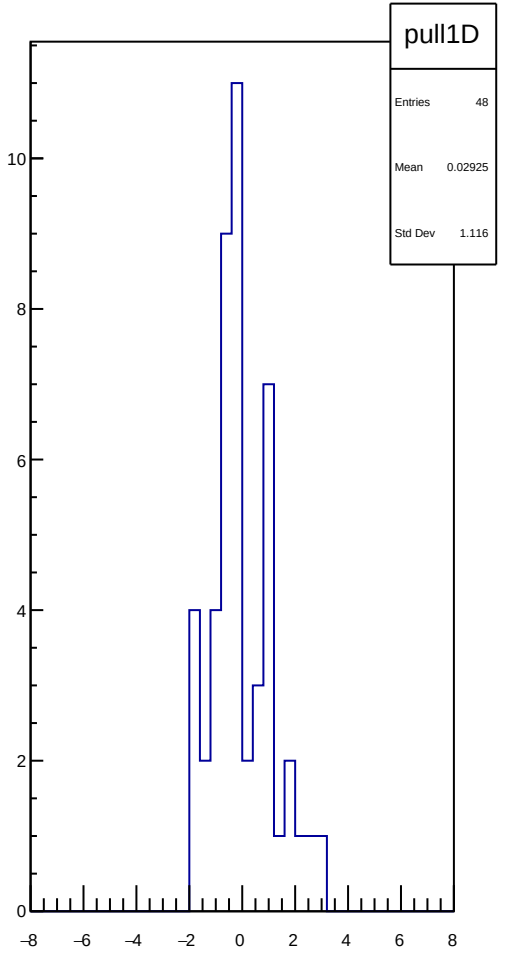

asym_usr_correction_rms vs run
χ² / ndf 1642 / 47
p0 442.4 ± 0.4488
520
500
480
460
440
420
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

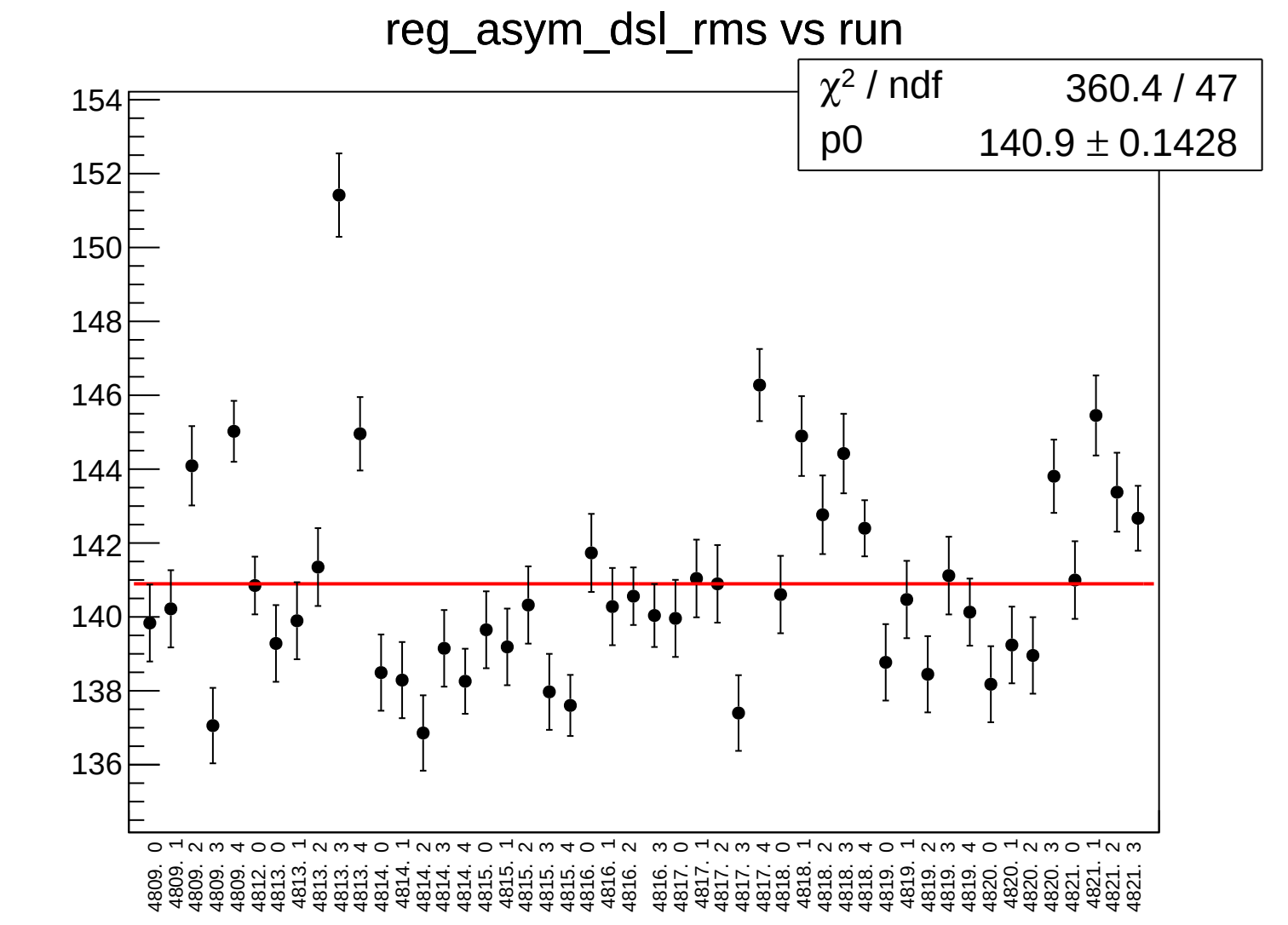

asym_usr_mean vs run
χ² / ndf 43.89 / 47
p0 −318.2 ± 662.3
15000
10000
5000
0
−5000
−10000
−15000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 10.5
Std Dev 23.56
2
1
0
−1
−2

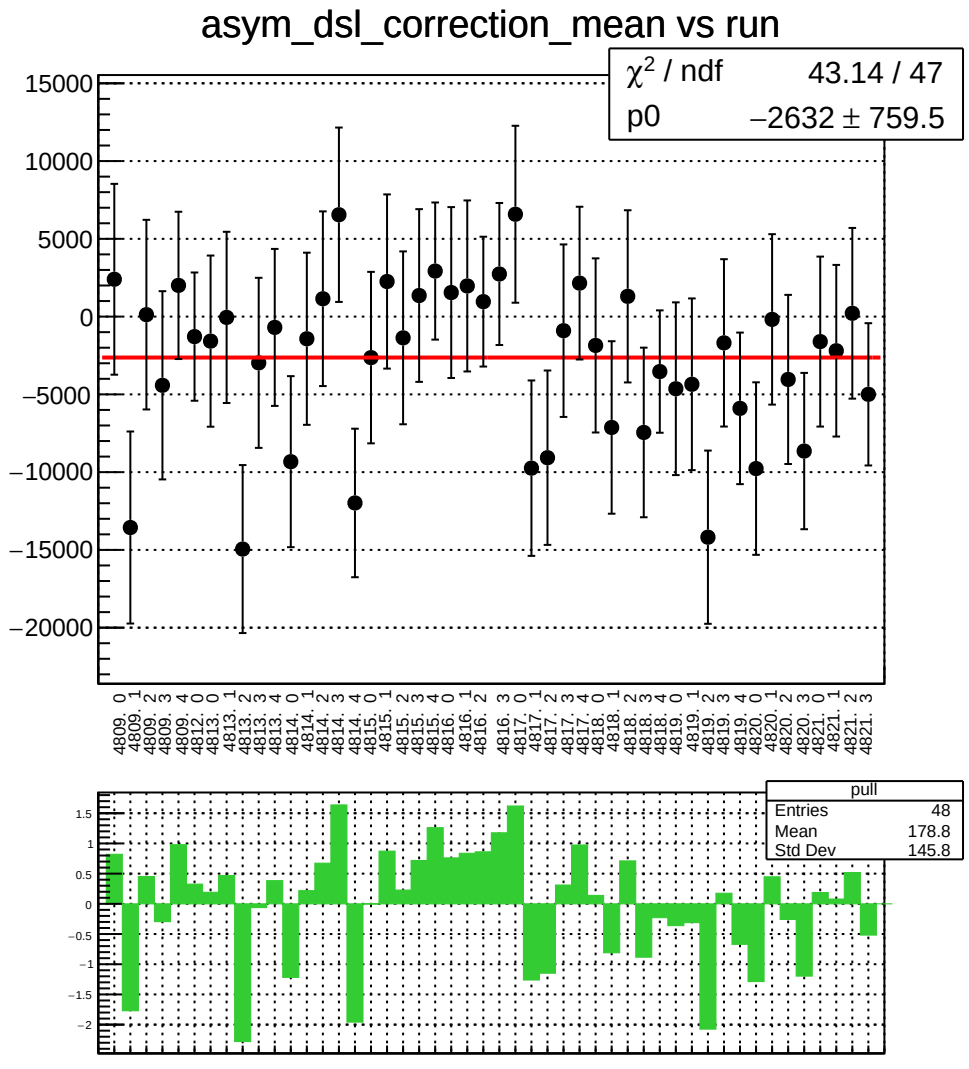

pull1D
Entries 48
Mean −0.02341
Std Dev 0.9559
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

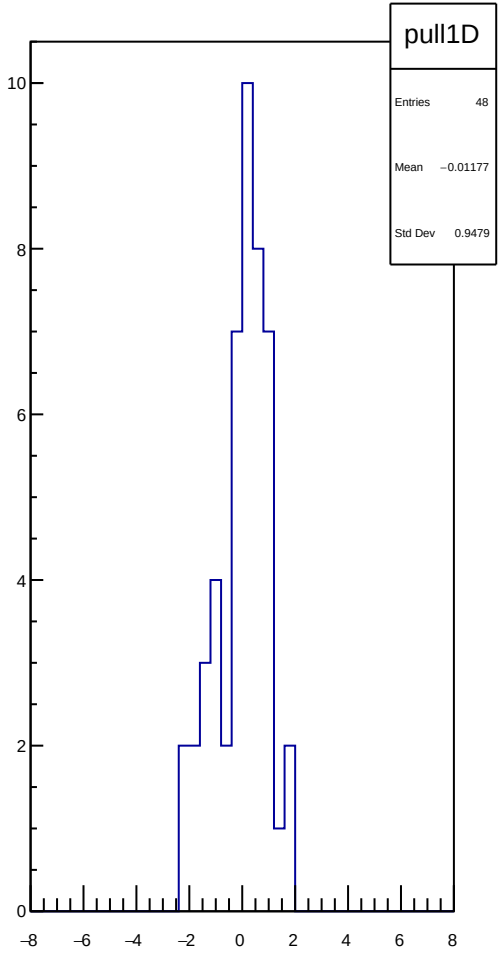

asym_usr_rms vs run
χ² / ndf 1412 / 47
p0 461.7 ± 0.4683
540
520
500
480
460
440
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

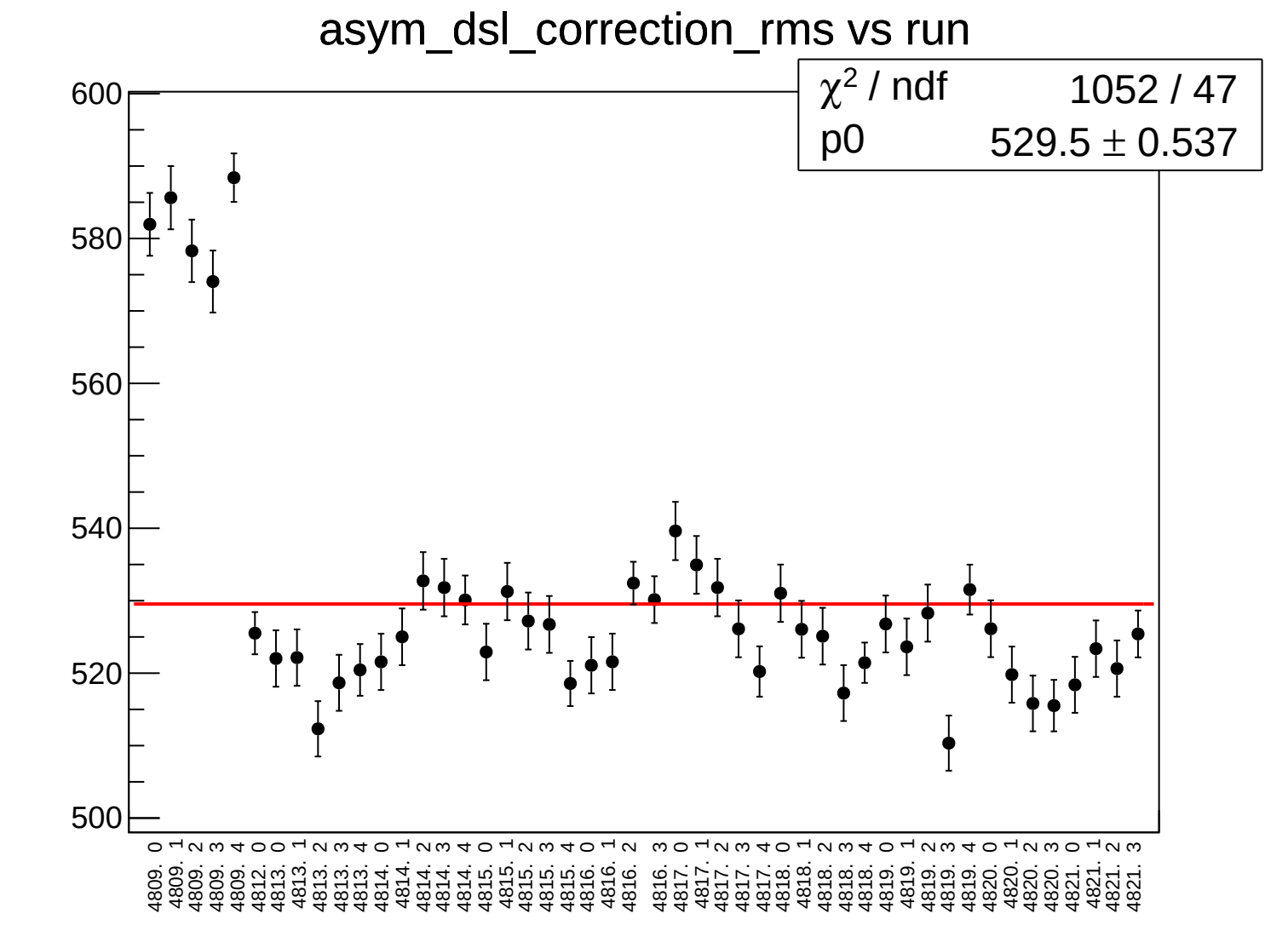

reg_asym_dsl_mean vs run
χ² / ndf 59.81 / 47
p0 2.63 ± 202
6000
4000
2000
0
−2000
−4000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean −0.3581
Std Dev 39.19
3
2
1
0
−1
−2


pull1D
Entries 48
Mean 0.02925
Std Dev 1.116
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_dsl_rms vs run
χ² / ndf 360.4 / 47
p0 140.9 ± 0.1428
154
152
150
148
146
144
142
140
138
136
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3


asym_dsl_correction_mean vs run
χ² / ndf 43.14 / 47
p0 −2632 ± 759.5
pull
Entries 48
Mean 178.8
Std Dev 145.8


pull1D
Entries 48
Mean −0.01177
Std Dev 0.9479


asym_dsl_correction_rms vs run
χ^2 / ndf 1052 / 47
p0 529.5 ± 0.537
600
580
560
540
520
500
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
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4815. 2
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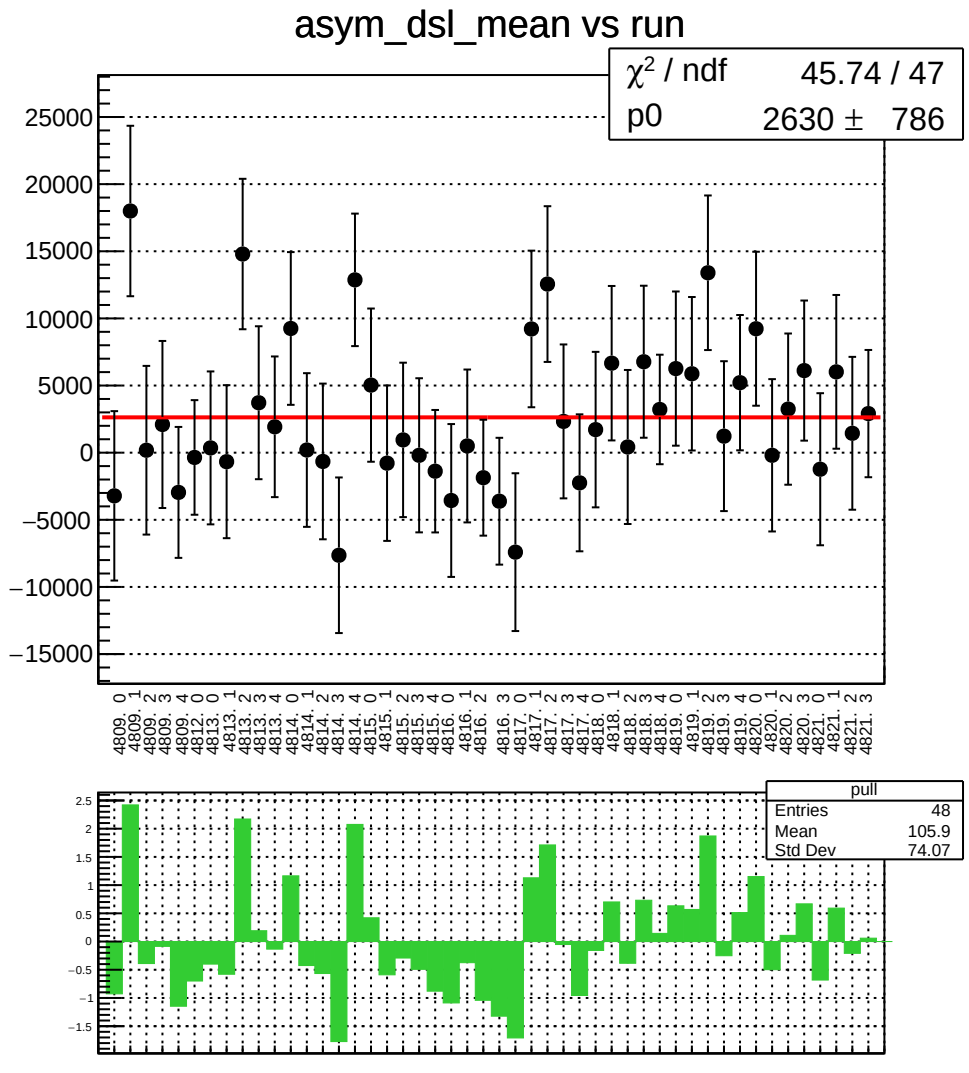
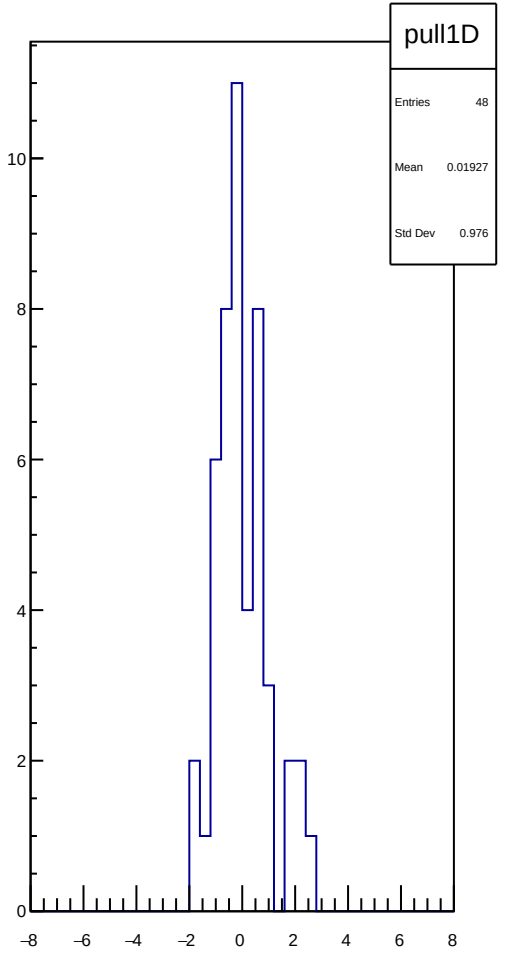
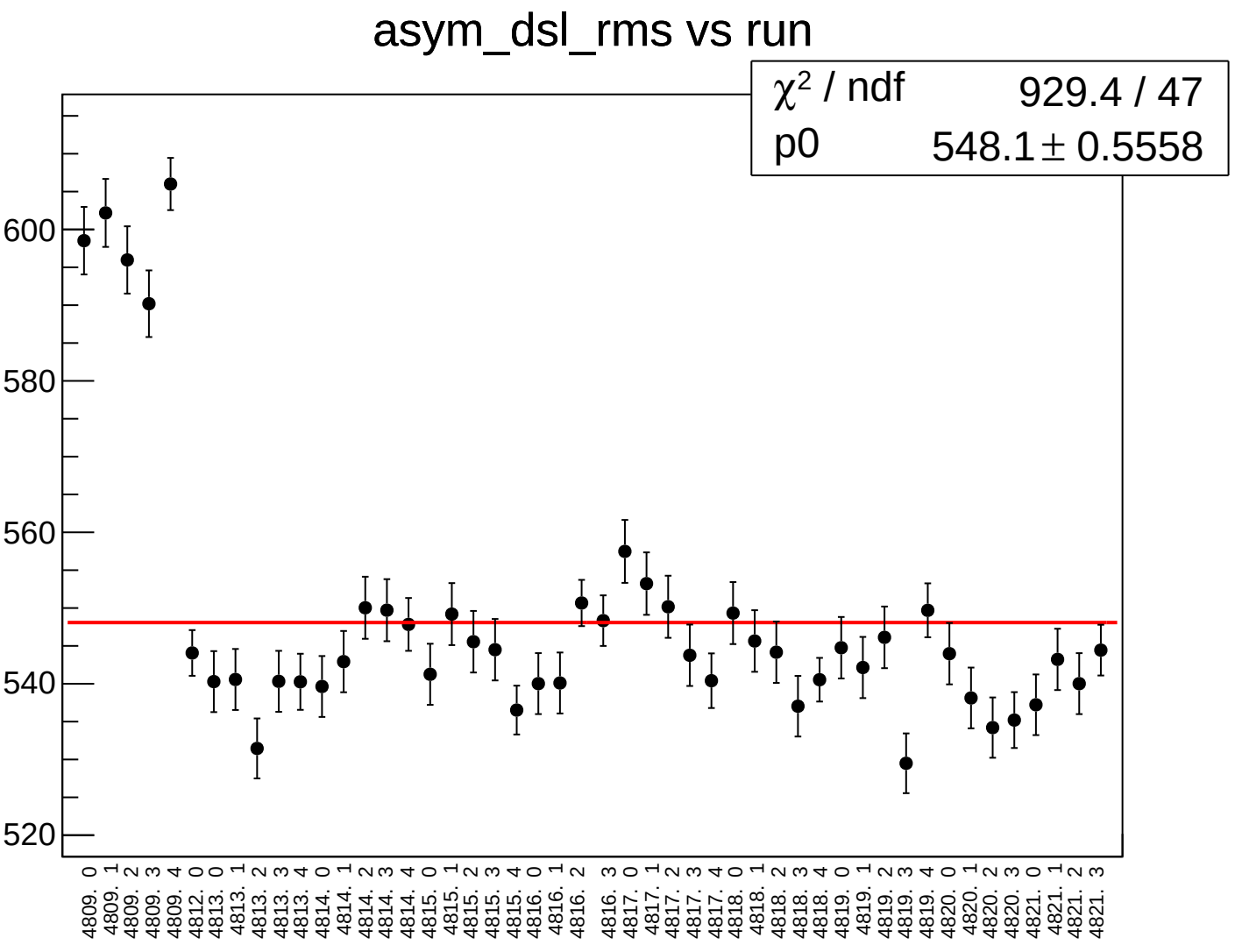
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3


asym_dsl_mean vs run
χ² / ndf 45.74 / 47
p0 2630 ± 786
pull
Entries 48
Mean 105.9
Std Dev 74.07


pull1D
Entries 48
Mean 0.01927
Std Dev 0.976


asym_dsl_rms vs run
χ² / ndf 929.4 / 47
p0 548.1 ± 0.5558
600
580
560
540
520
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
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4814. 3
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4817. 2
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4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
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4820. 1
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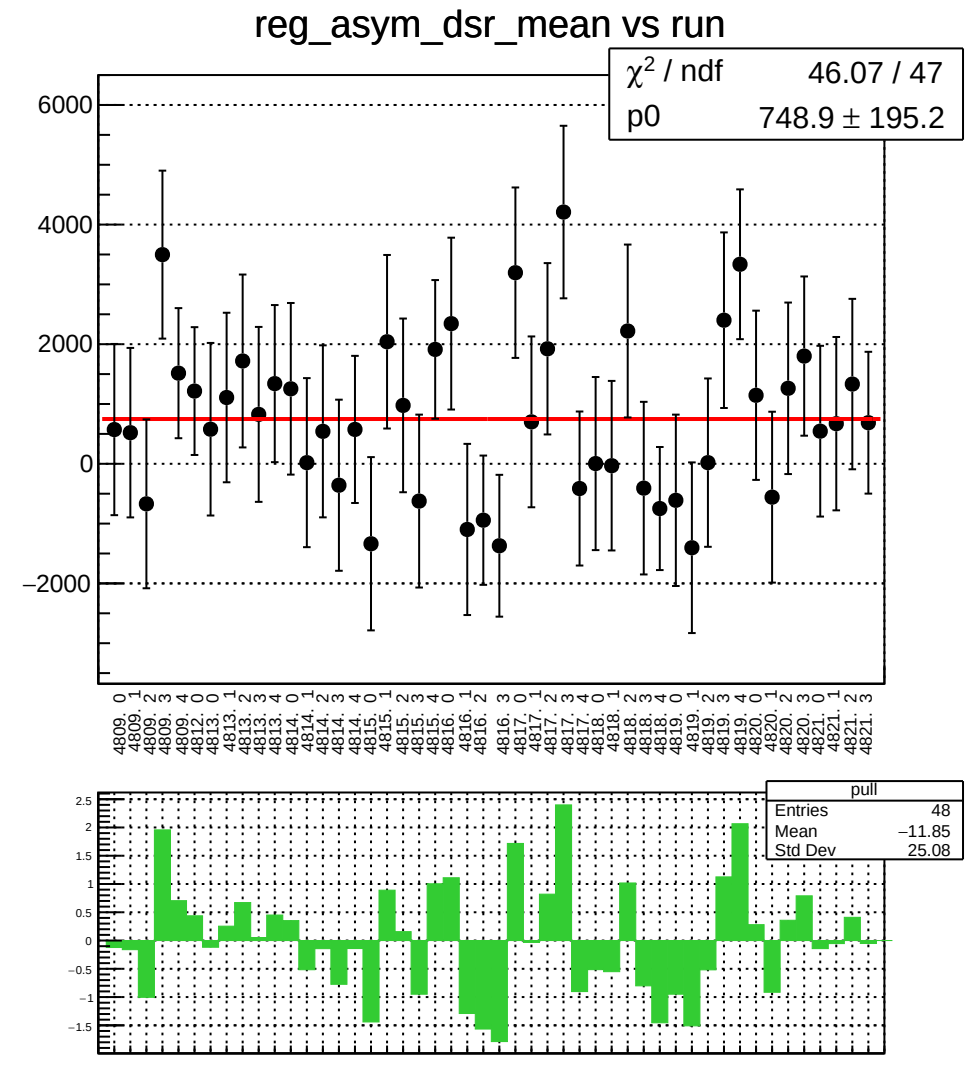
4821. 2
4821. 3


reg_asym_dsr_mean vs run
χ² / ndf 46.07 / 47
p0 748.9 ± 195.2
6000
4000
2000
0
−2000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
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4817. 3
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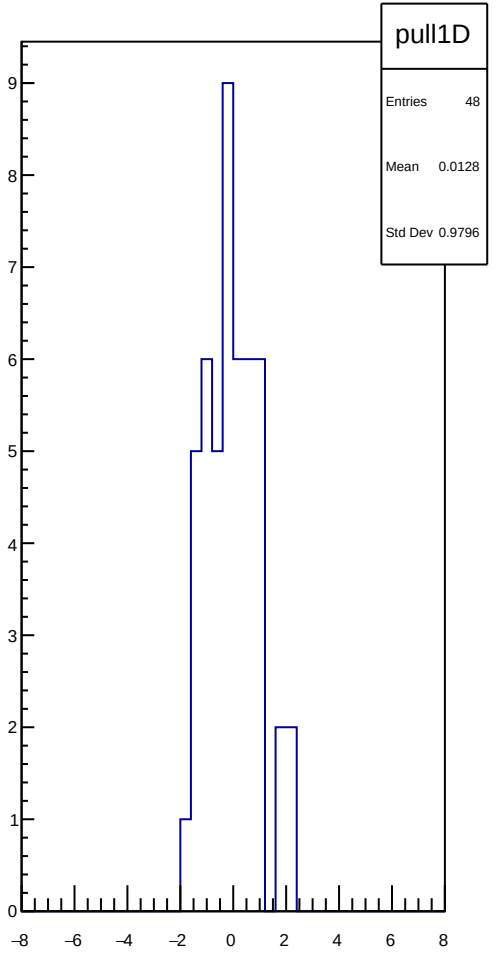
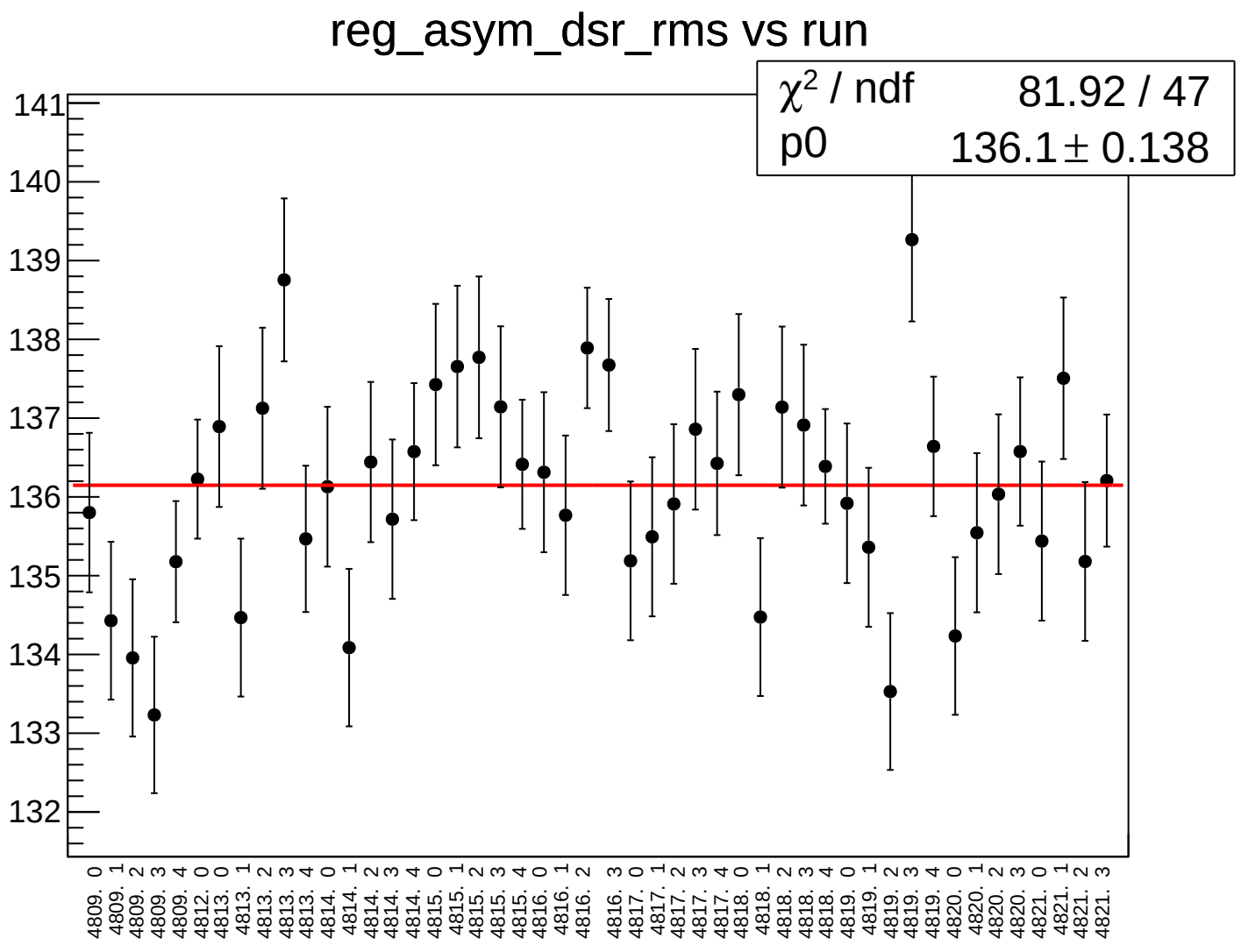
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean −11.85
Std Dev 25.08
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 48
Mean 0.0128
Std Dev 0.9796
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_dsr_rms vs run
χ² / ndf 81.92 / 47
p0 136.1 ± 0.138
141
140
139
138
137
136
135
134
133
132
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
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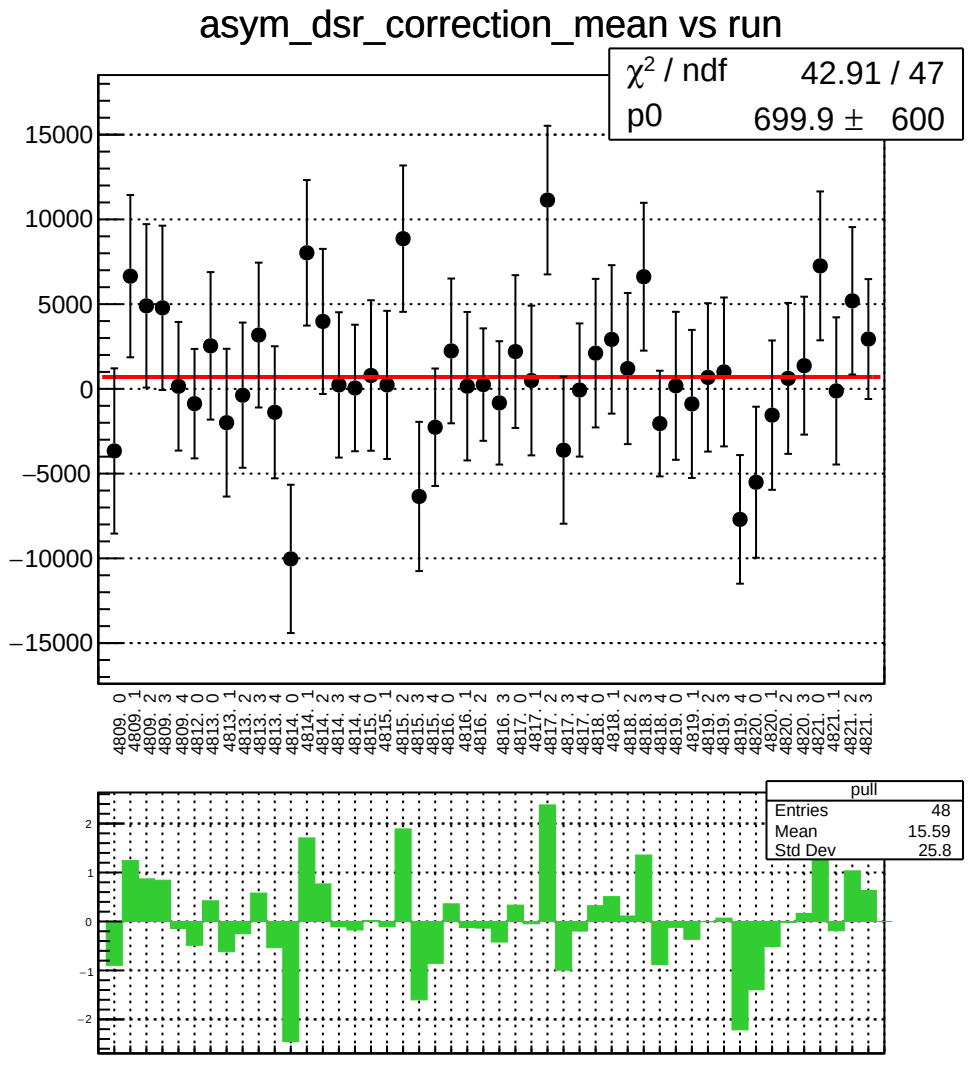
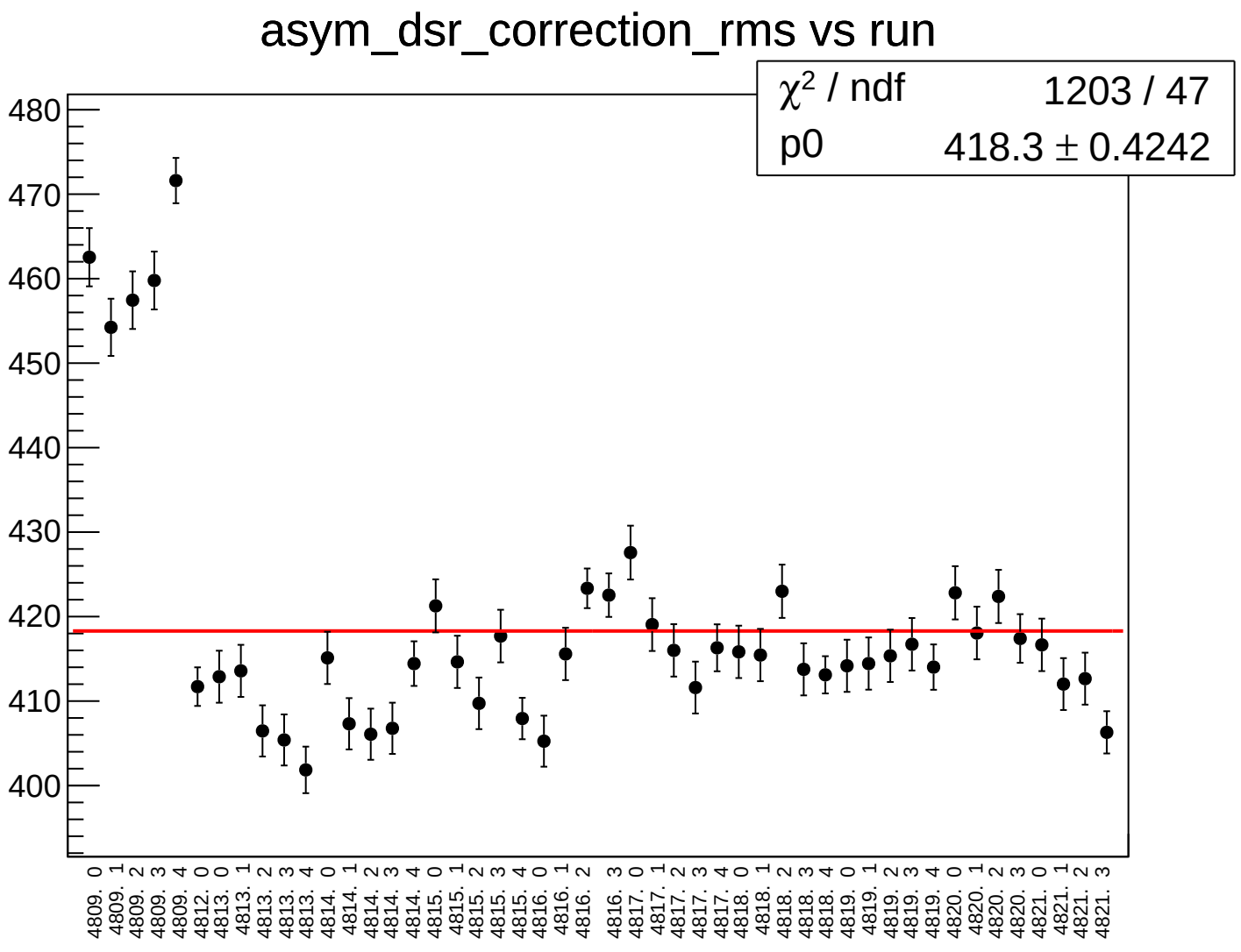
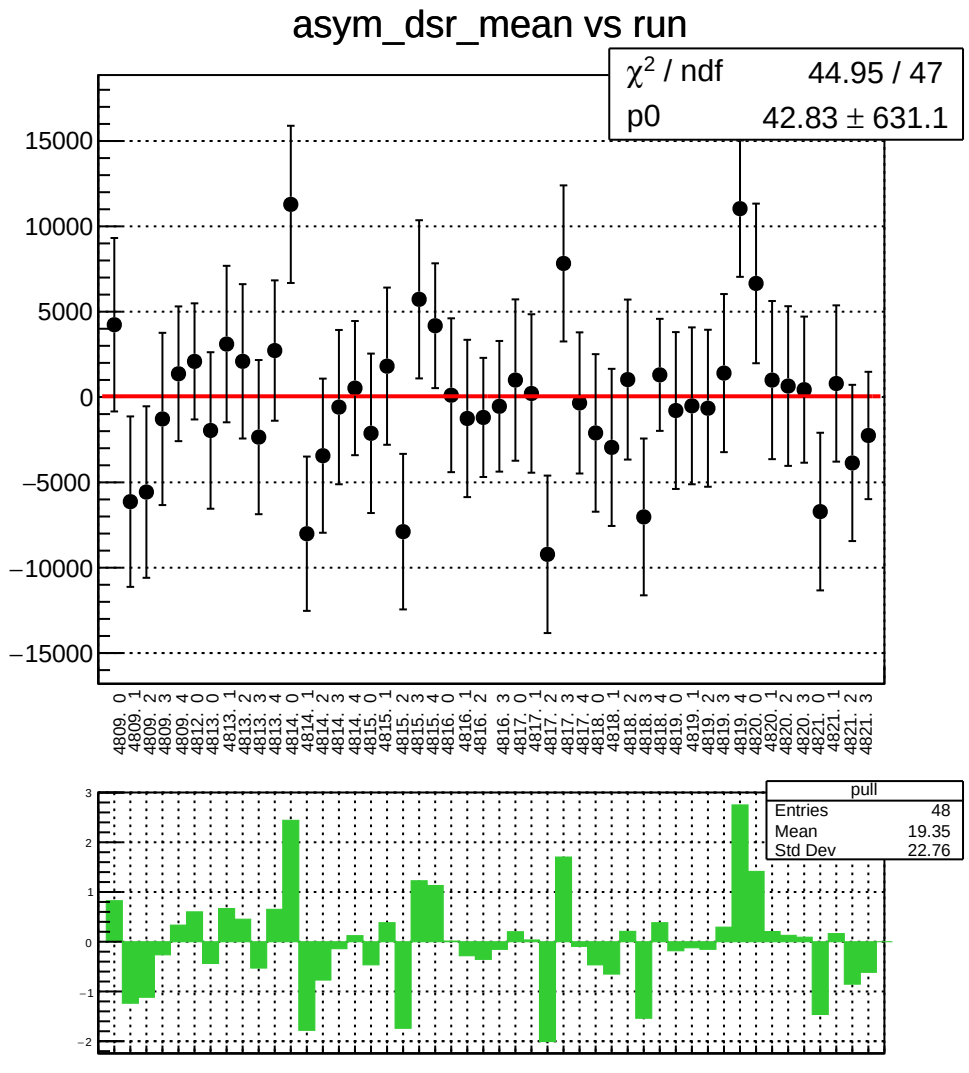
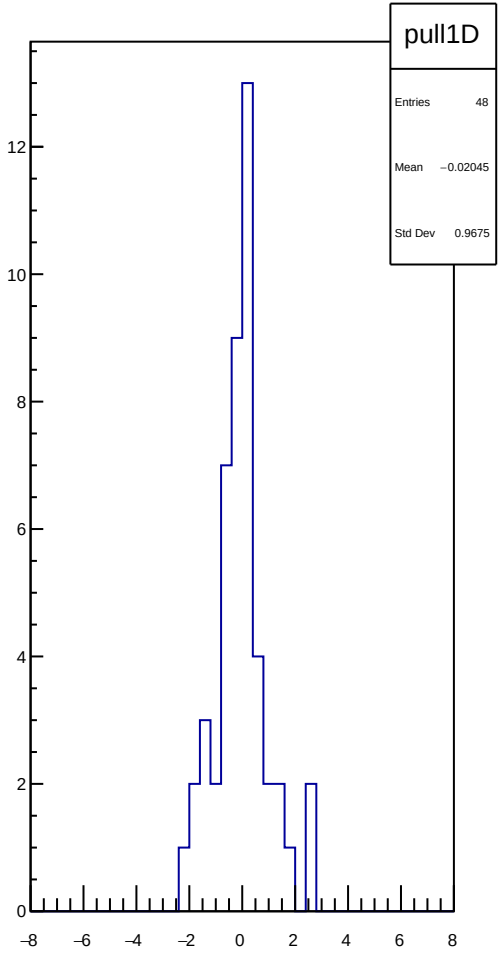
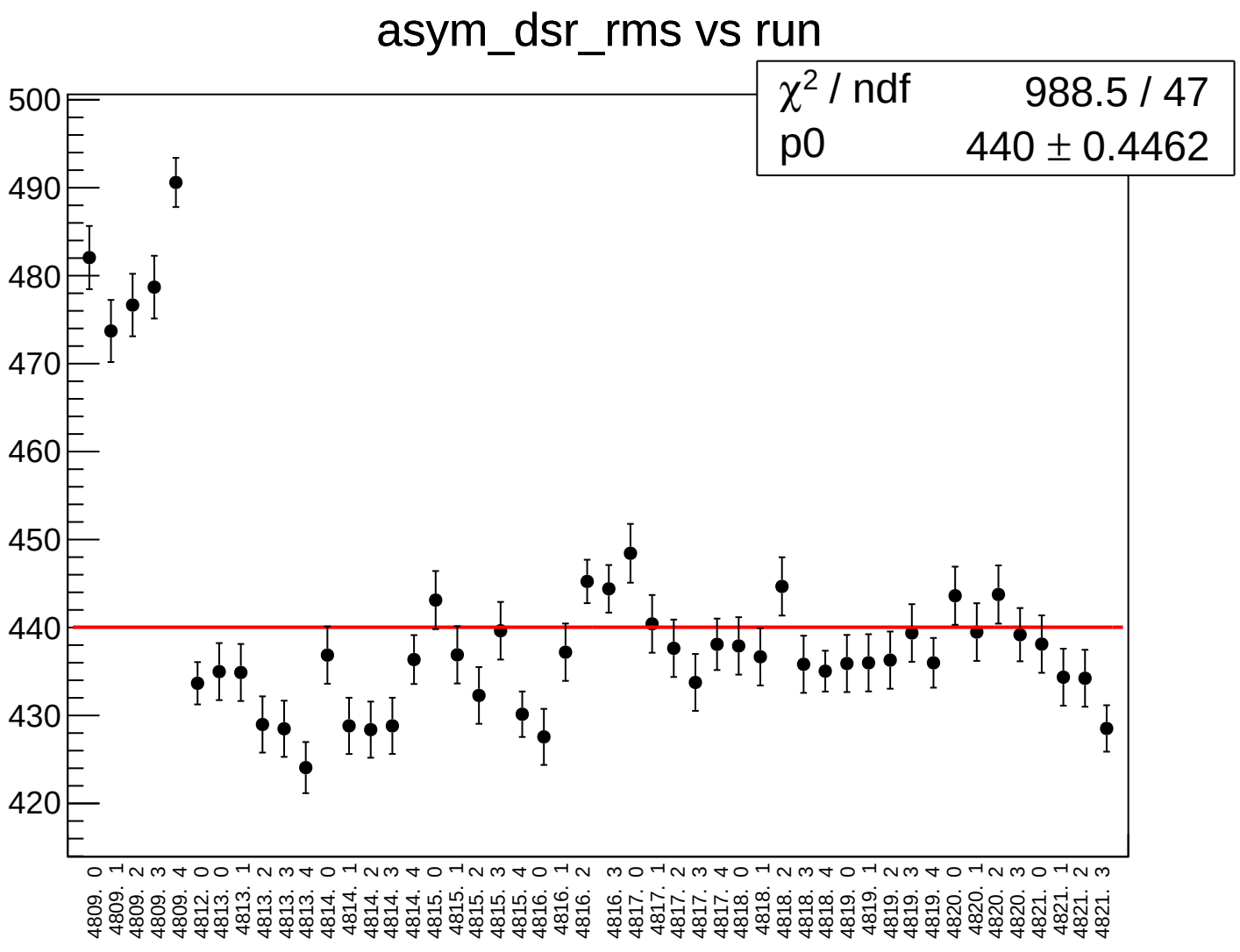
4821. 2
4821. 3

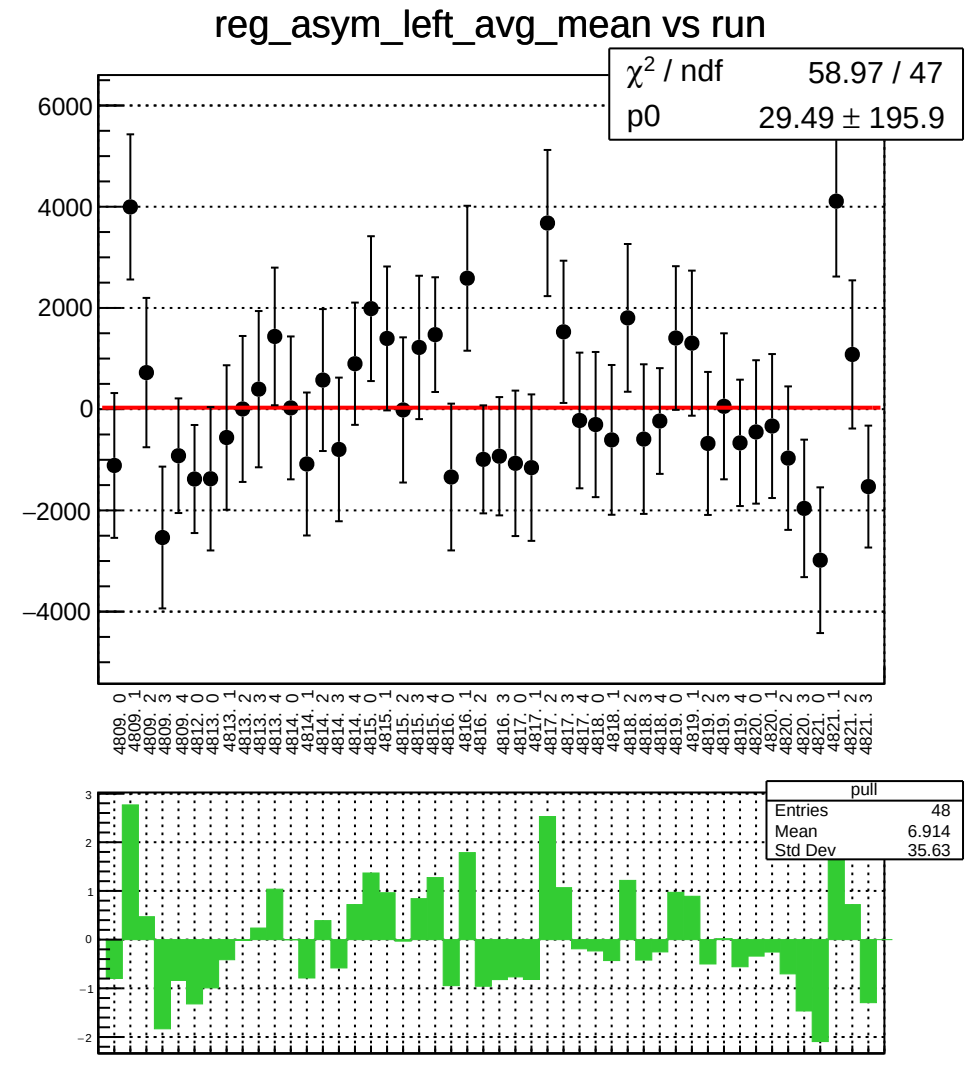

asym_dsr_correction_mean vs run
χ² / ndf 42.91 / 47
p0 699.9 ± 600
15000
10000
5000
0
−5000
−10000
−15000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 15.59
Std Dev 25.8
2
1
0
−1
−2
pull1D
Entries 48
Mean 0.02643
Std Dev 0.9451
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

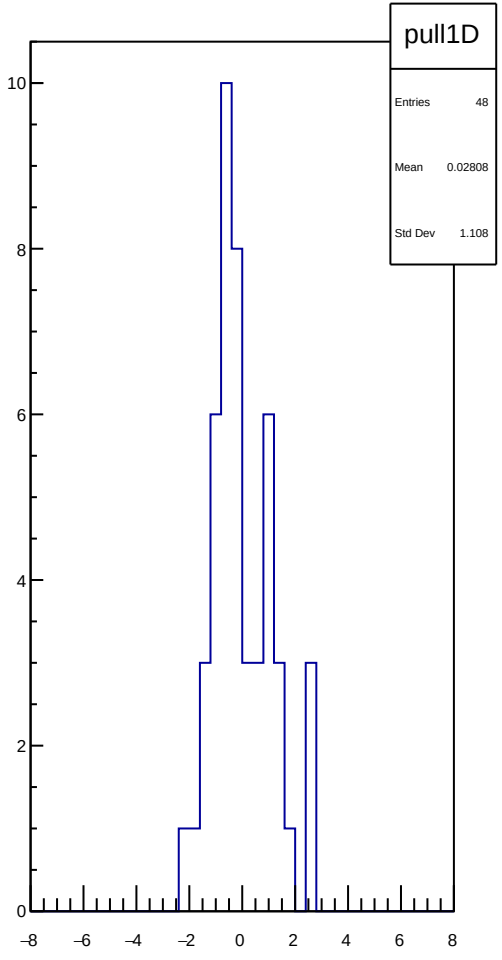

asym_dsr_correction_rms vs run
χ² / ndf 1203 / 47
p0 418.3 ± 0.4242
480
470
460
450
440
430
420
410
400
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

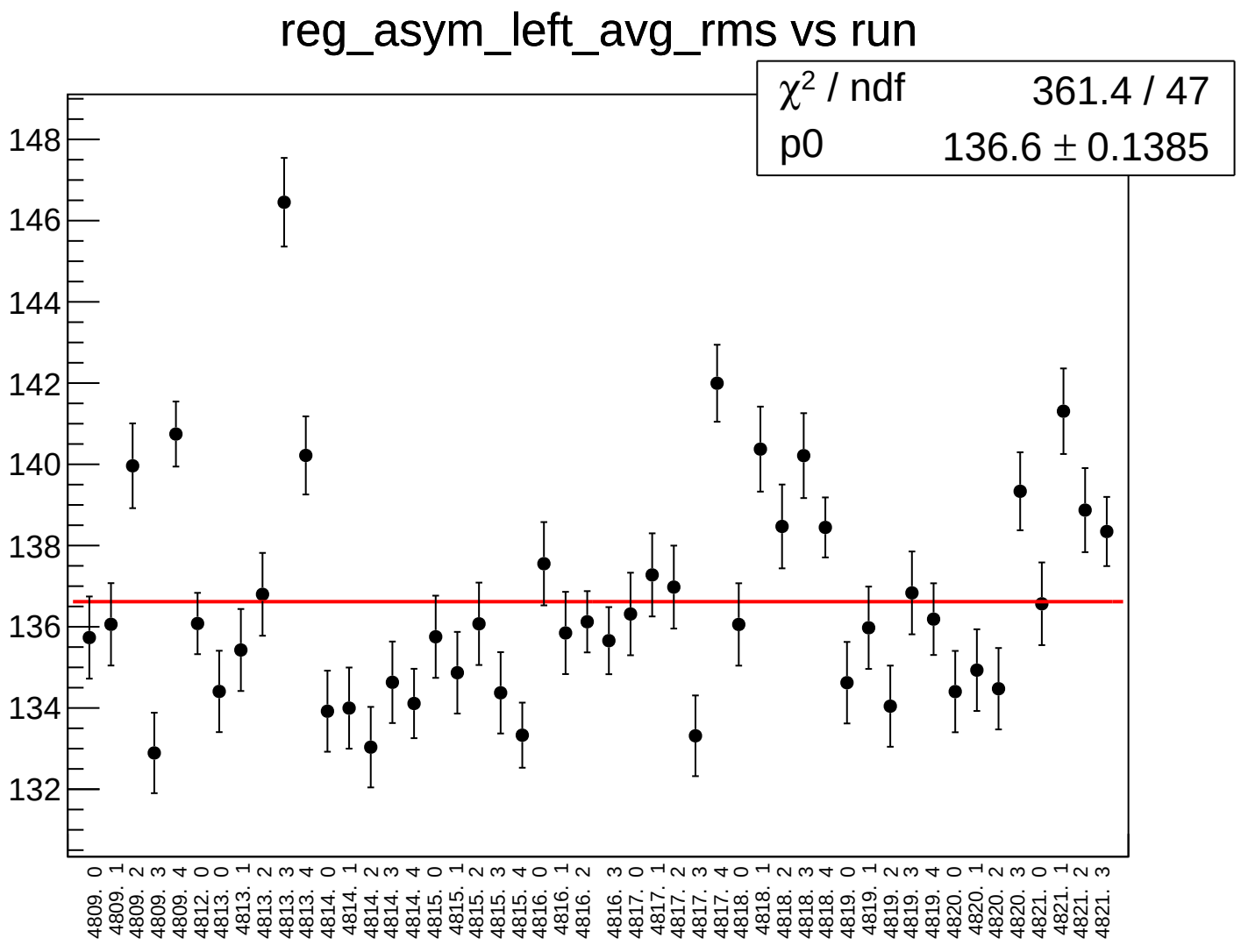

asym_dsr_mean vs run
χ² / ndf 44.95 / 47
p0 42.83 ± 631.1
15000
10000
5000
0
−5000
−10000
−15000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 19.35
Std Dev 22.76
3
2
1
0
−1
−2

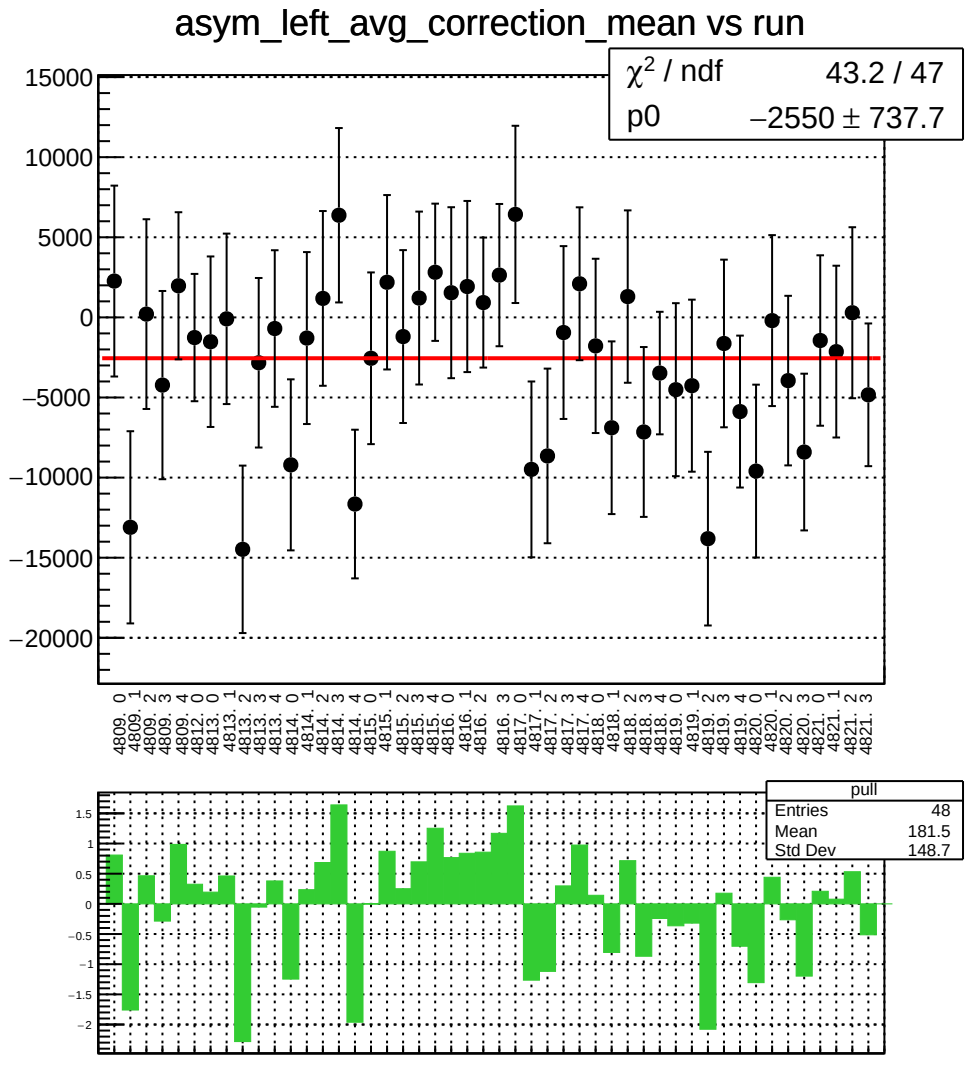

pull1D
Entries 48
Mean −0.02045
Std Dev 0.9675
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

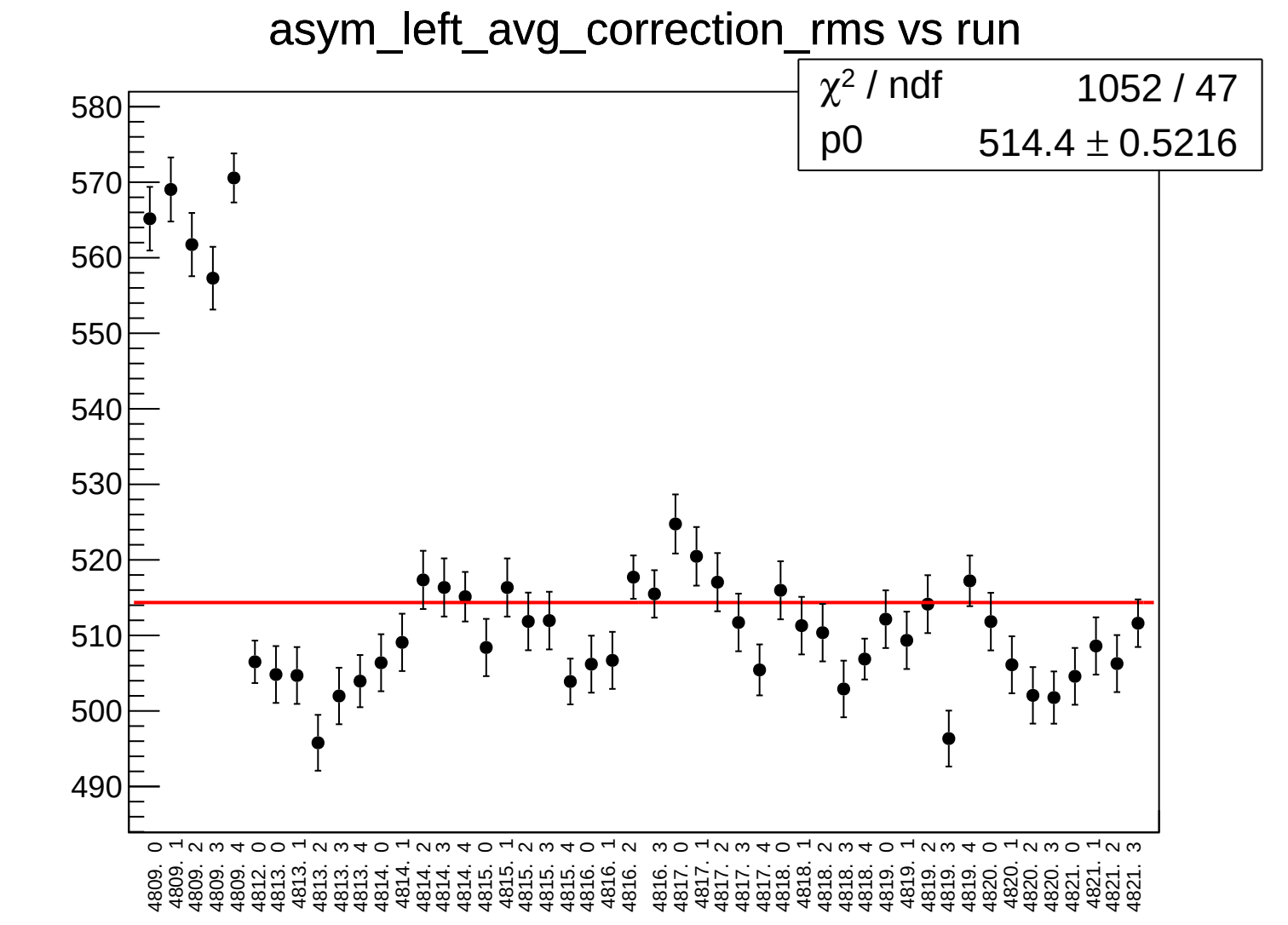

asym_dsr_rms vs run
χ^2 / ndf 988.5 / 47
p0 440 ± 0.4462
500
490
480
470
460
450
440
430
420
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

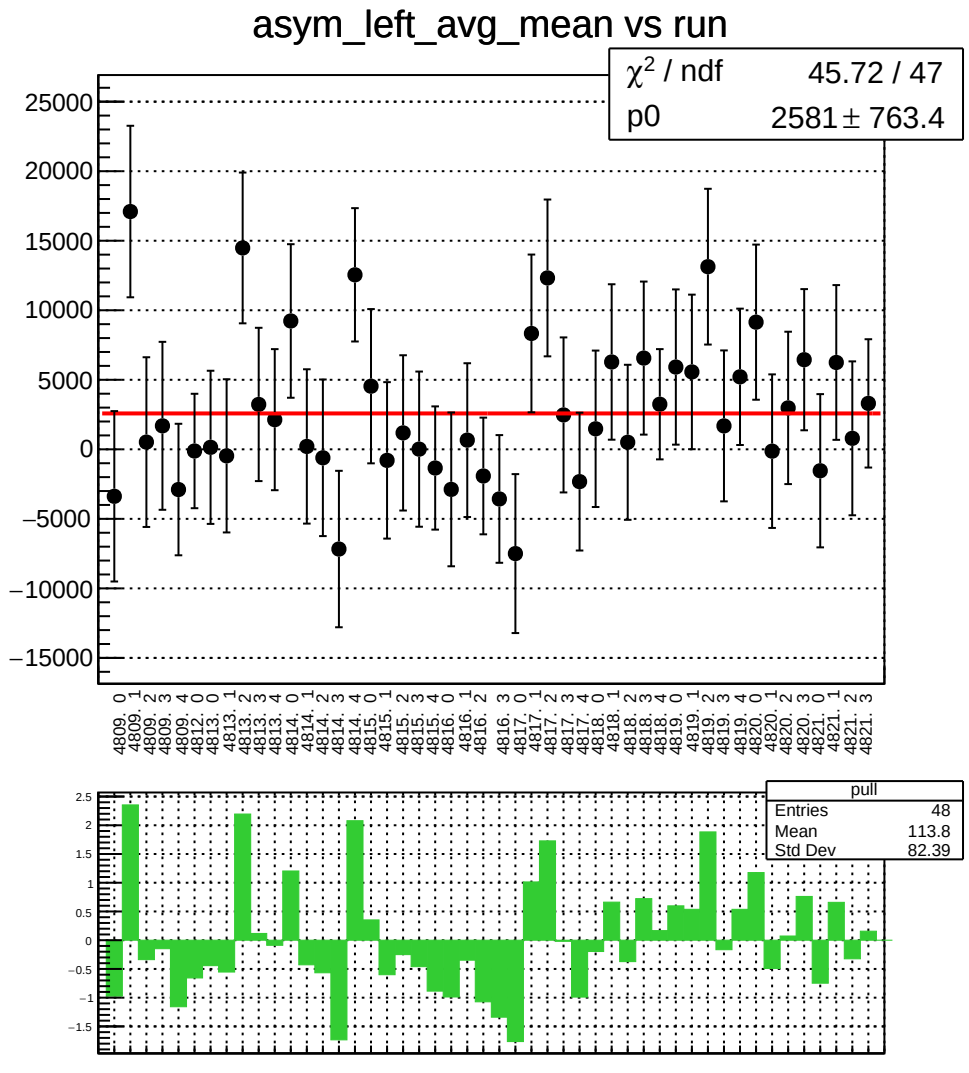

reg_asym_left_avg_mean vs run
χ² / ndf 58.97 / 47
p0 29.49 ± 195.9
6000
4000
2000
0
−2000
−4000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 6.914
Std Dev 35.63
3
2
1
0
−1
−2

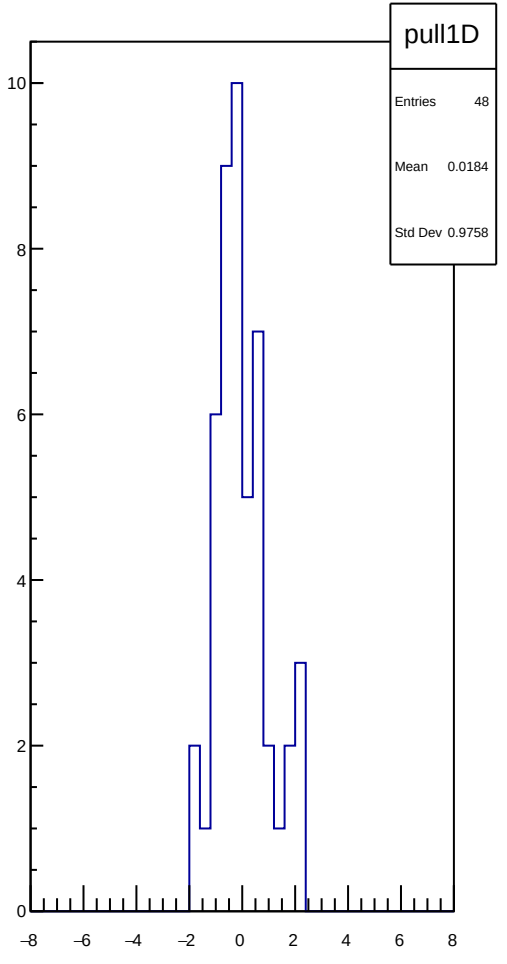

pull1D
Entries 48
Mean 0.02808
Std Dev 1.108
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

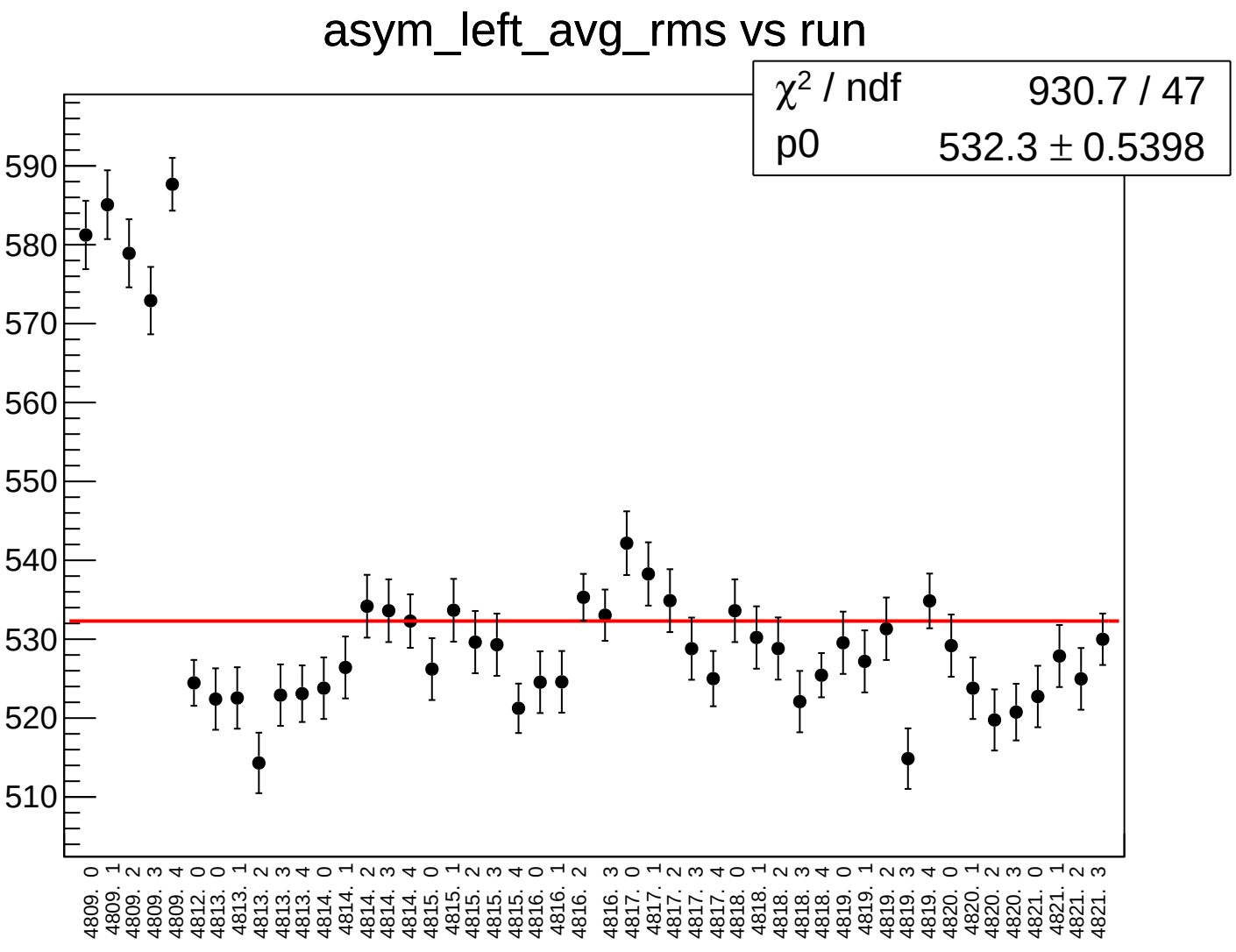

reg_asym_left_avg_rms vs run
χ² / ndf 361.4 / 47
p0 136.6 ± 0.1385
148
146
144
142
140
138
136
134
132
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

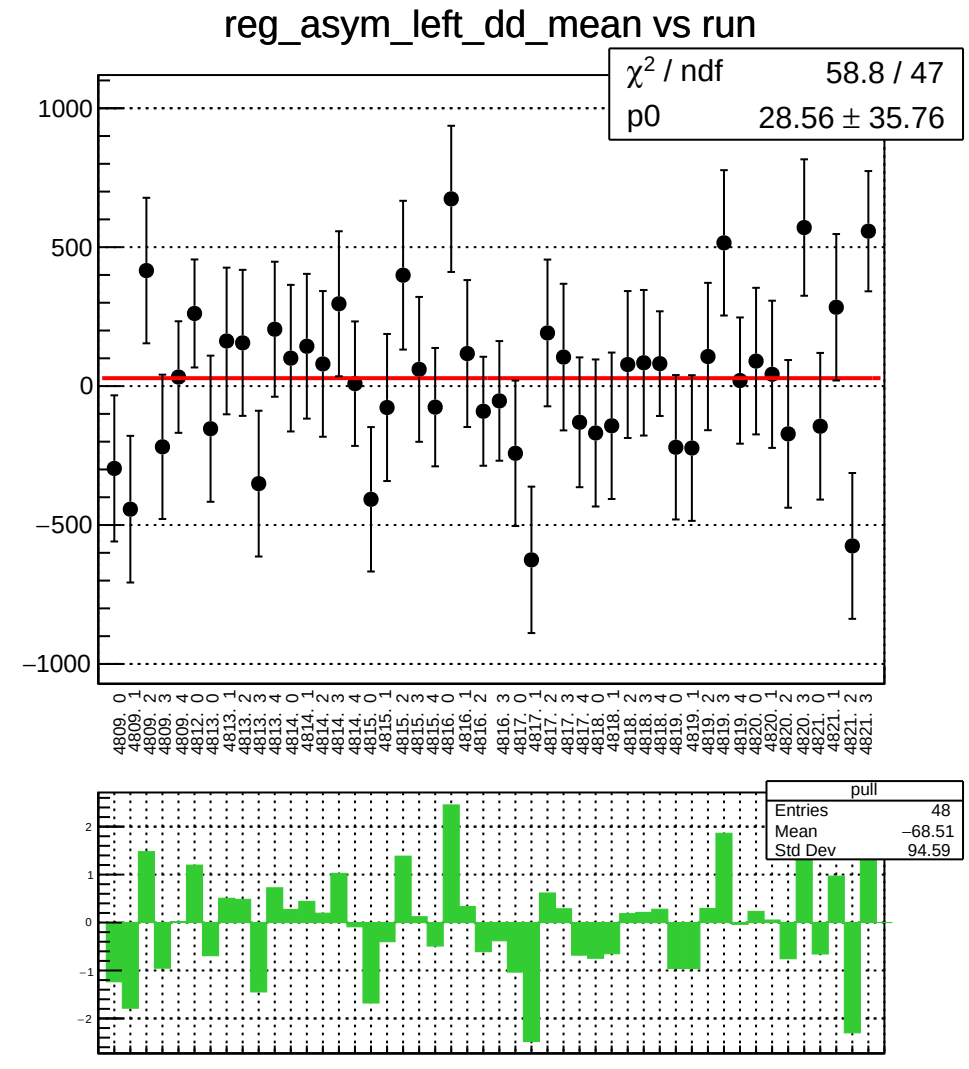

asym_left_avg_correction_mean vs run
χ² / ndf 43.2 / 47
p0 −2550 ± 737.7
15000
10000
5000
0
−5000
−10000
−15000
−20000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 181.5
Std Dev 148.7
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 48
Mean −0.01165
Std Dev 0.9486
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

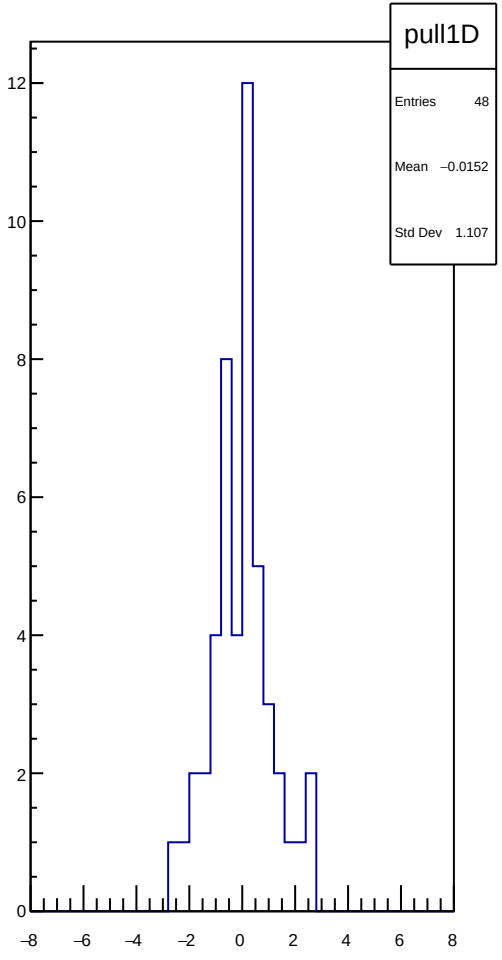

asym_left_avg_correction_rms vs run
χ² / ndf 1052 / 47
p0 514.4 ± 0.5216
580
570
560
550
540
530
520
510
500
490
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

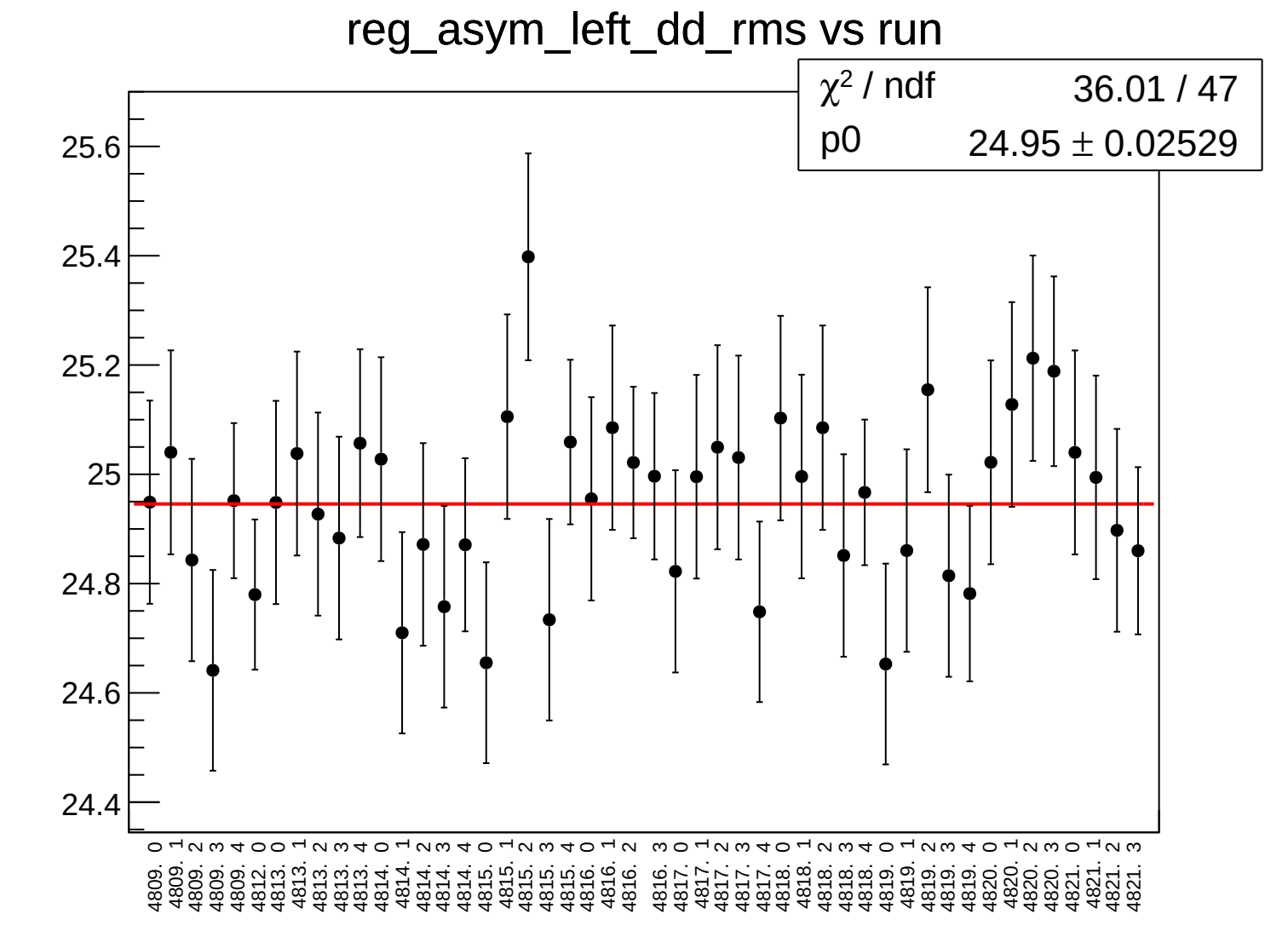

asym_left_avg_mean vs run
χ² / ndf 45.72 / 47
p0 2581 ± 763.4
pull
Entries 48
Mean 113.8
Std Dev 82.39

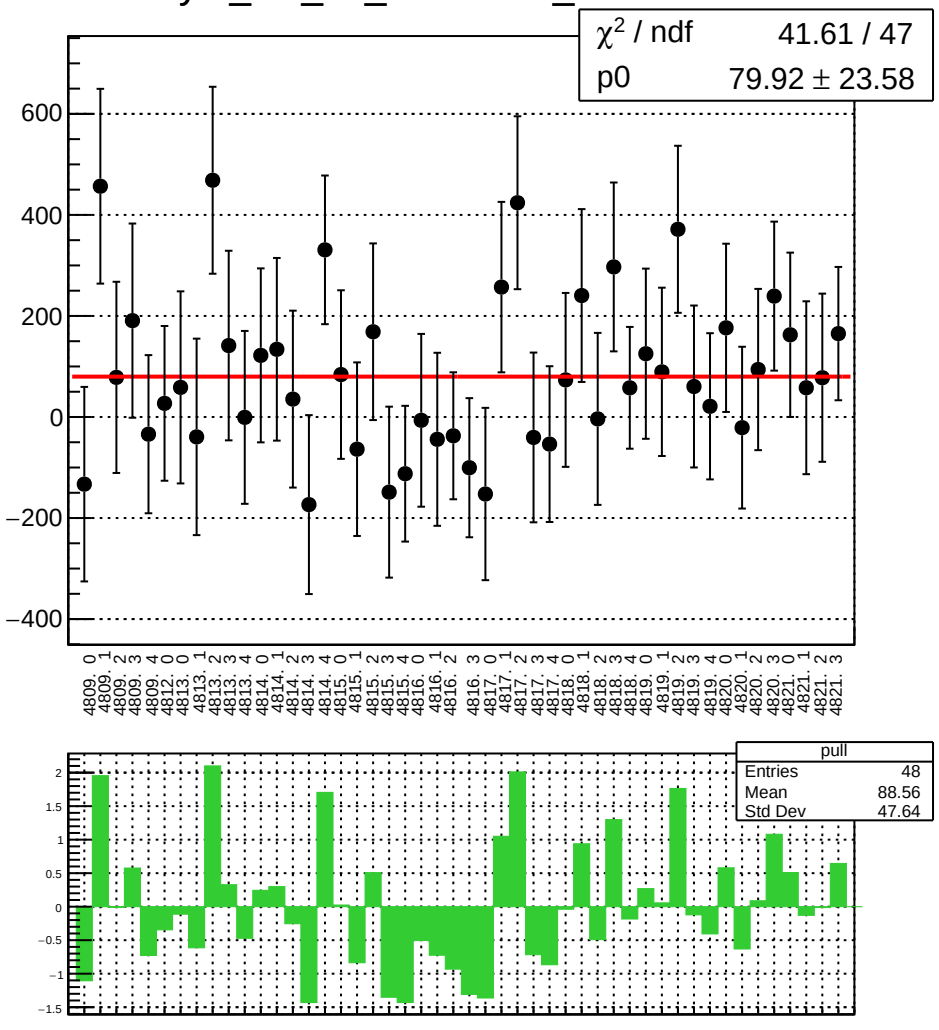

pull1D
Entries 48
Mean 0.0184
Std Dev 0.9758

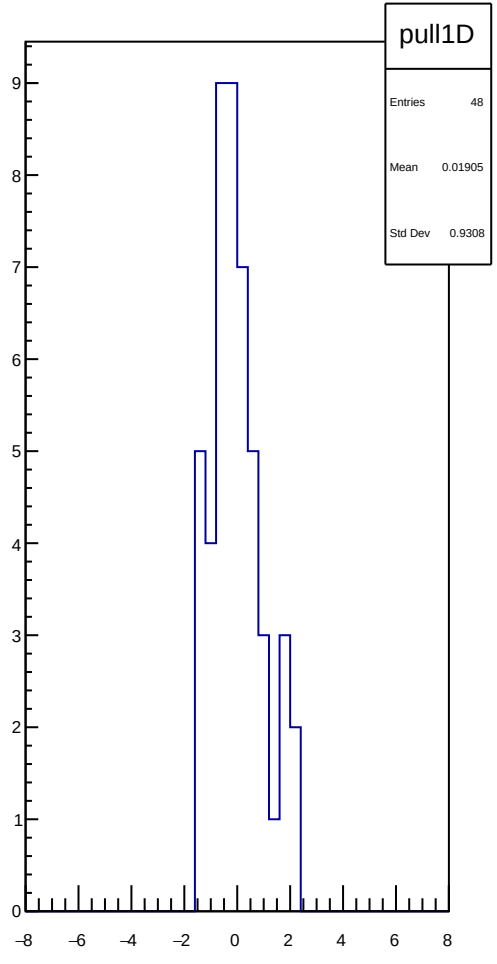

asym_left_avg_rms vs run
χ² / ndf 930.7 / 47
p0 532.3 ± 0.5398
590
580
570
560
550
540
530
520
510
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

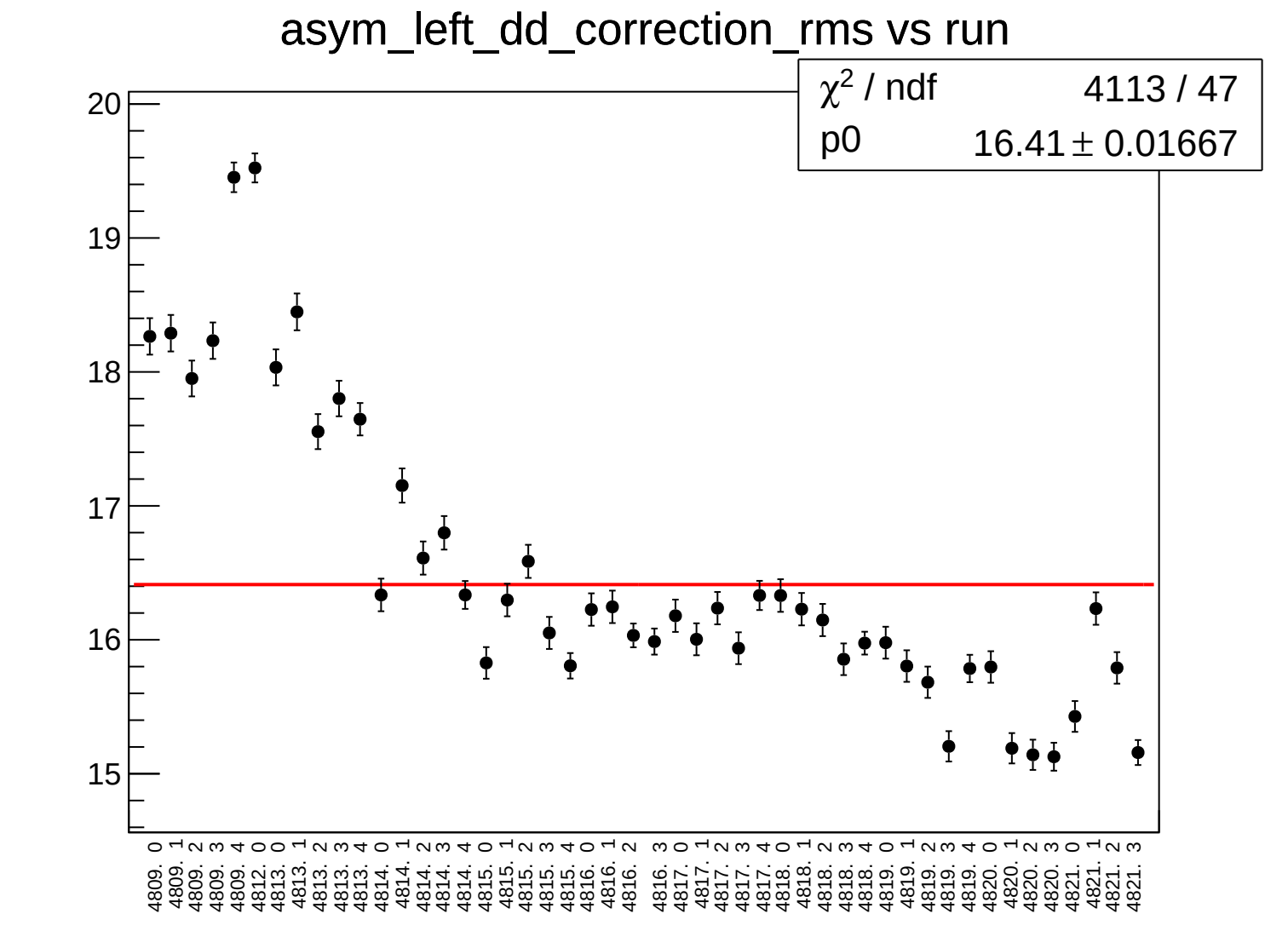

reg_asym_left_dd_mean vs run
χ² / ndf 58.8 / 47
p0 28.56 ± 35.76
1000
500
0
−500
−1000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean −68.51
Std Dev 94.59
2
1
0
−1
−2

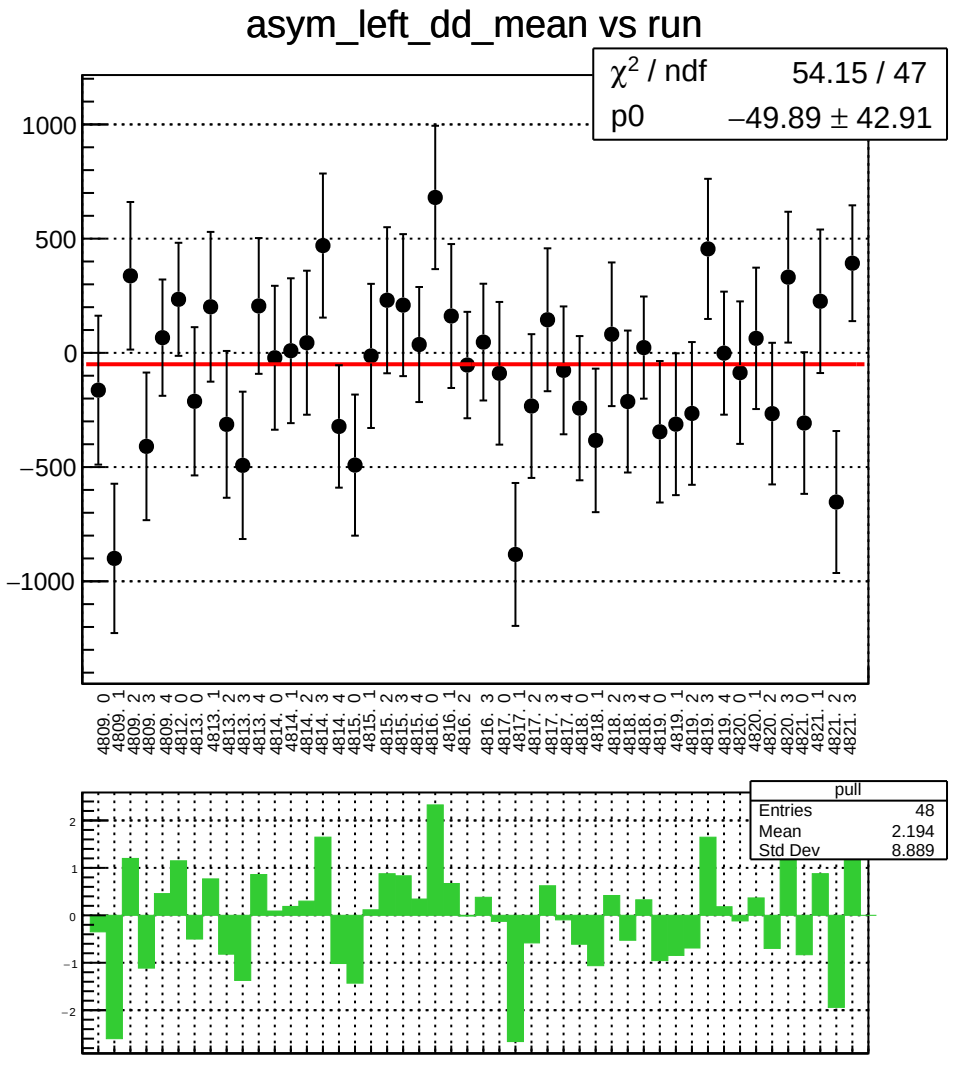

pull1D
Entries 48
Mean −0.0152
Std Dev 1.107
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

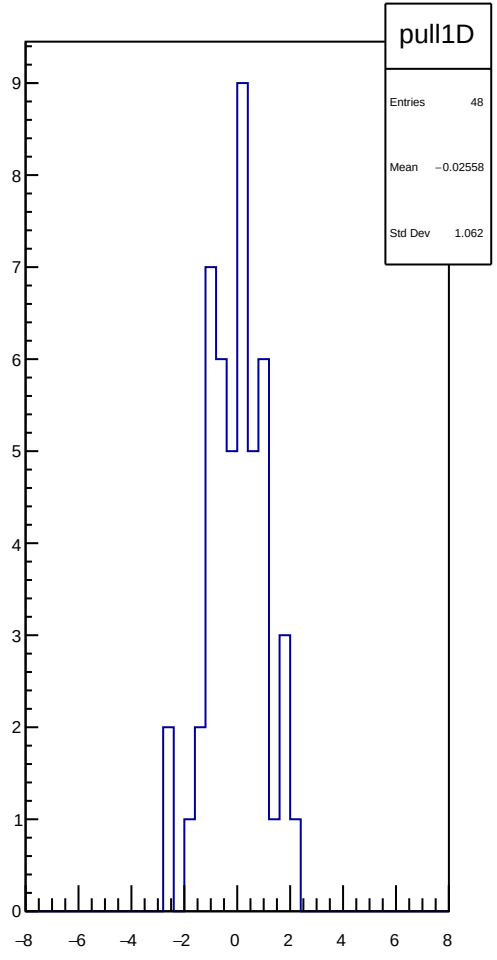

reg_asym_left_dd_rms vs run
χ² / ndf 36.01 / 47
p0 24.95 ± 0.02529
25.6
25.4
25.2
25
24.8
24.6
24.4
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

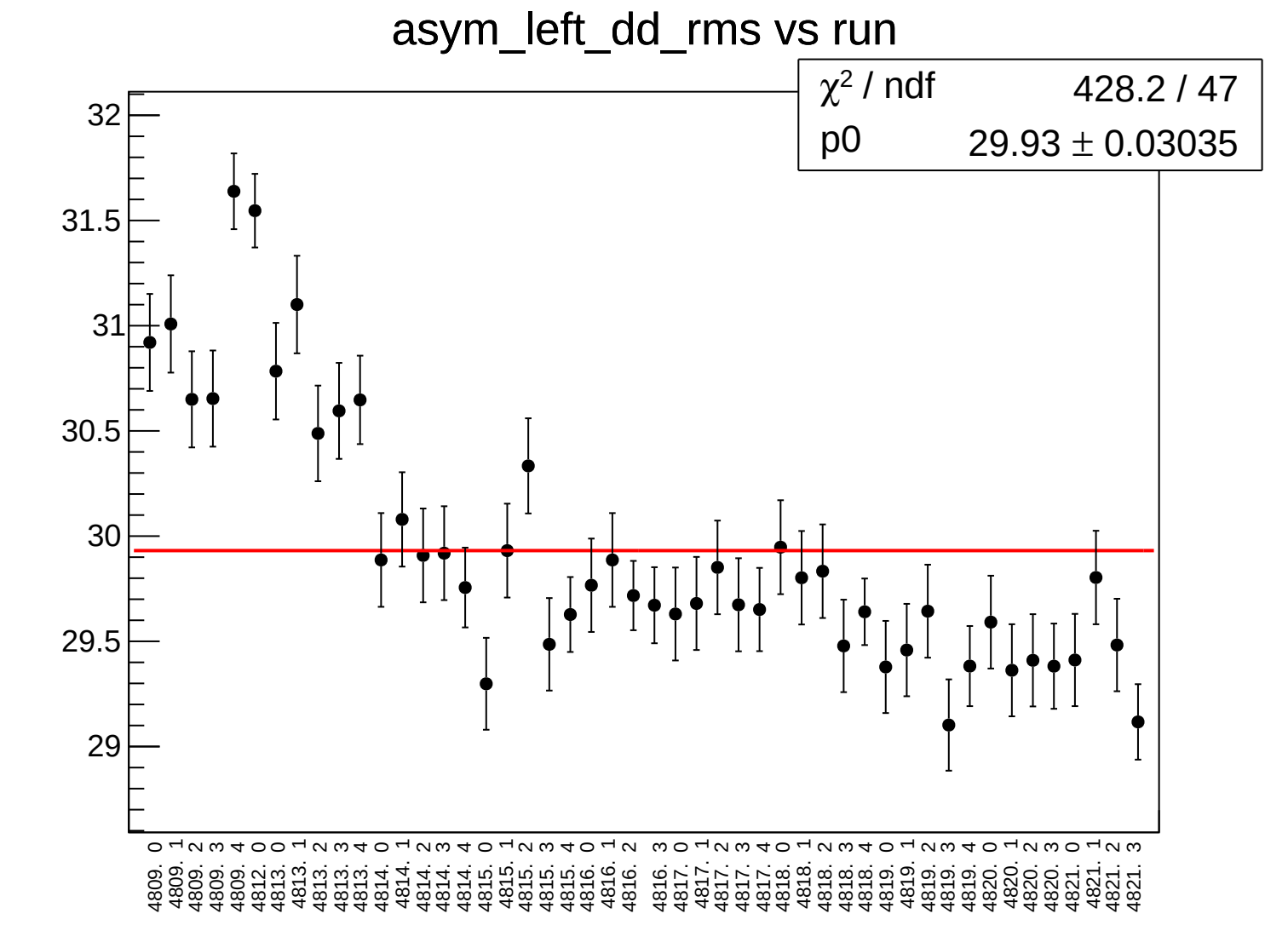

asym_left_dd_correction_mean vs run
χ^2 / ndf 41.61 / 47
p0 79.92 ± 23.58
pull
Entries 48
Mean 88.56
Std Dev 47.64

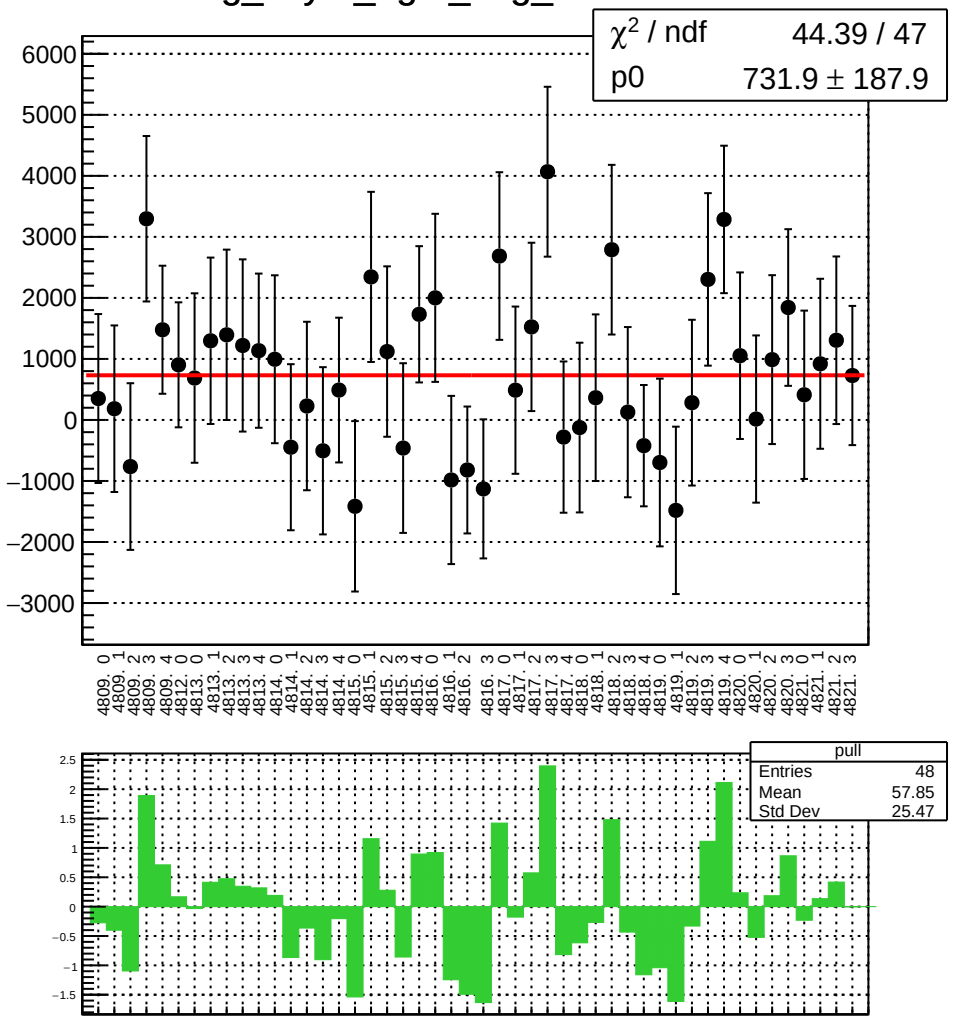

pull1D
Entries 48
Mean 0.01905
Std Dev 0.9308

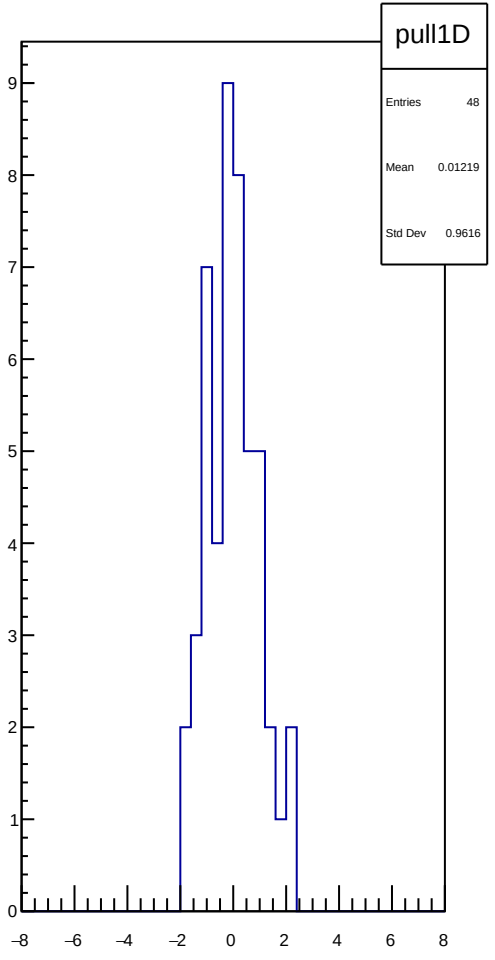

asym_left_dd_correction_rms vs run
χ² / ndf 4113 / 47
p0 16.41 ± 0.01667
20
19
18
17
16
15
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

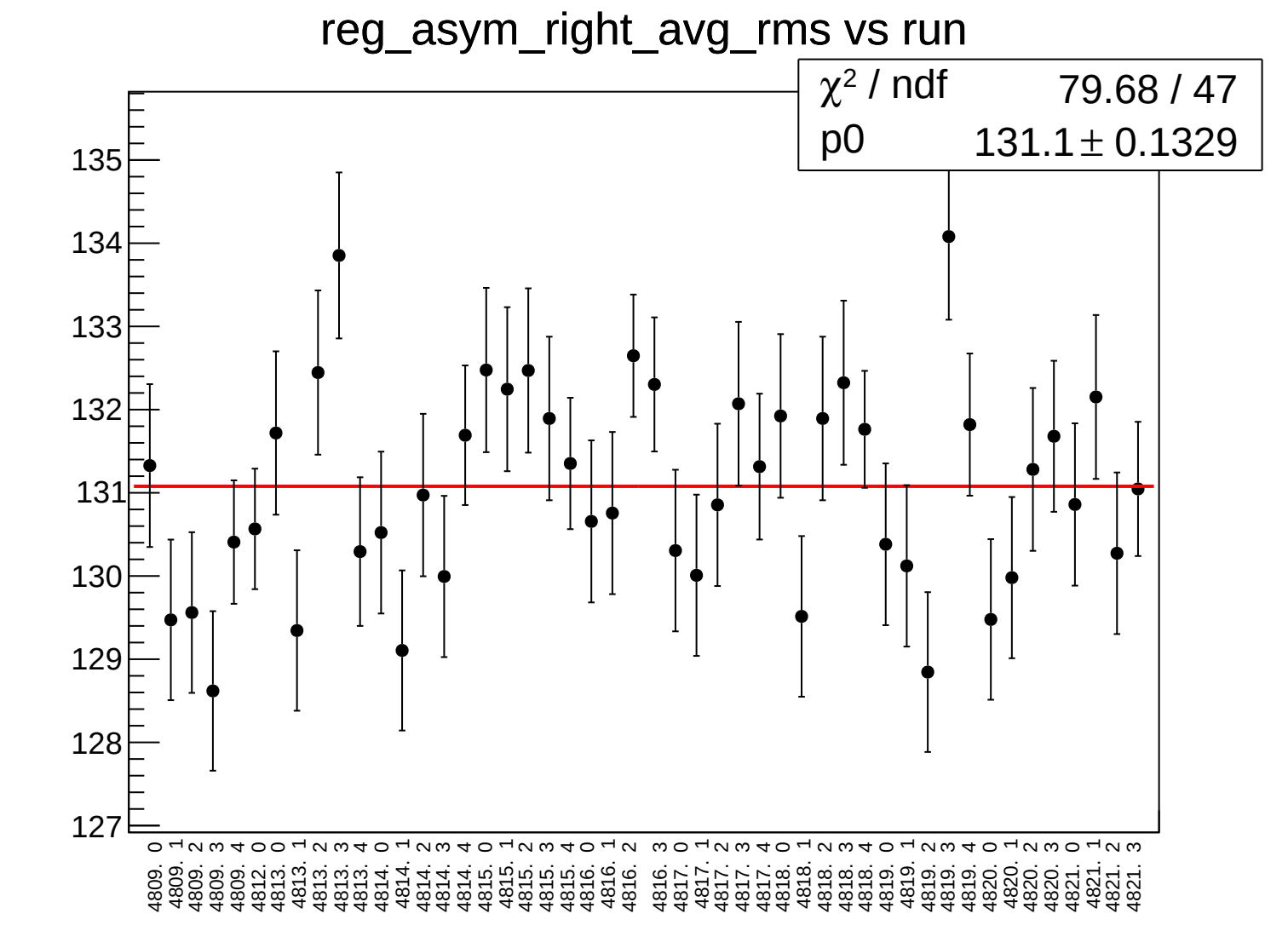

asym_left_dd_mean vs run
χ² / ndf 54.15 / 47
p0 −49.89 ± 42.91
1000
500
0
−500
−1000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 2.194
Std Dev 8.889
2
1
0
−1
−2

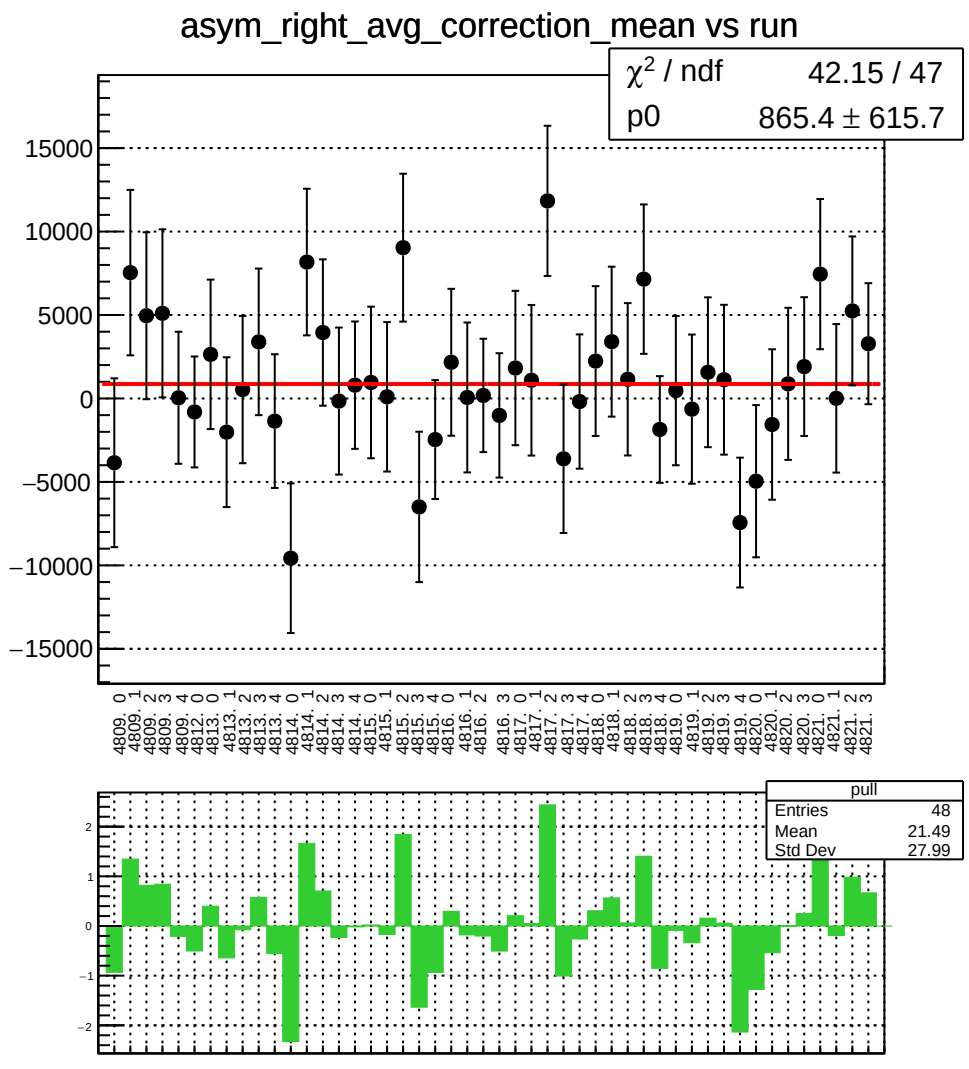

pull1D
Entries 48
Mean −0.02558
Std Dev 1.062
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

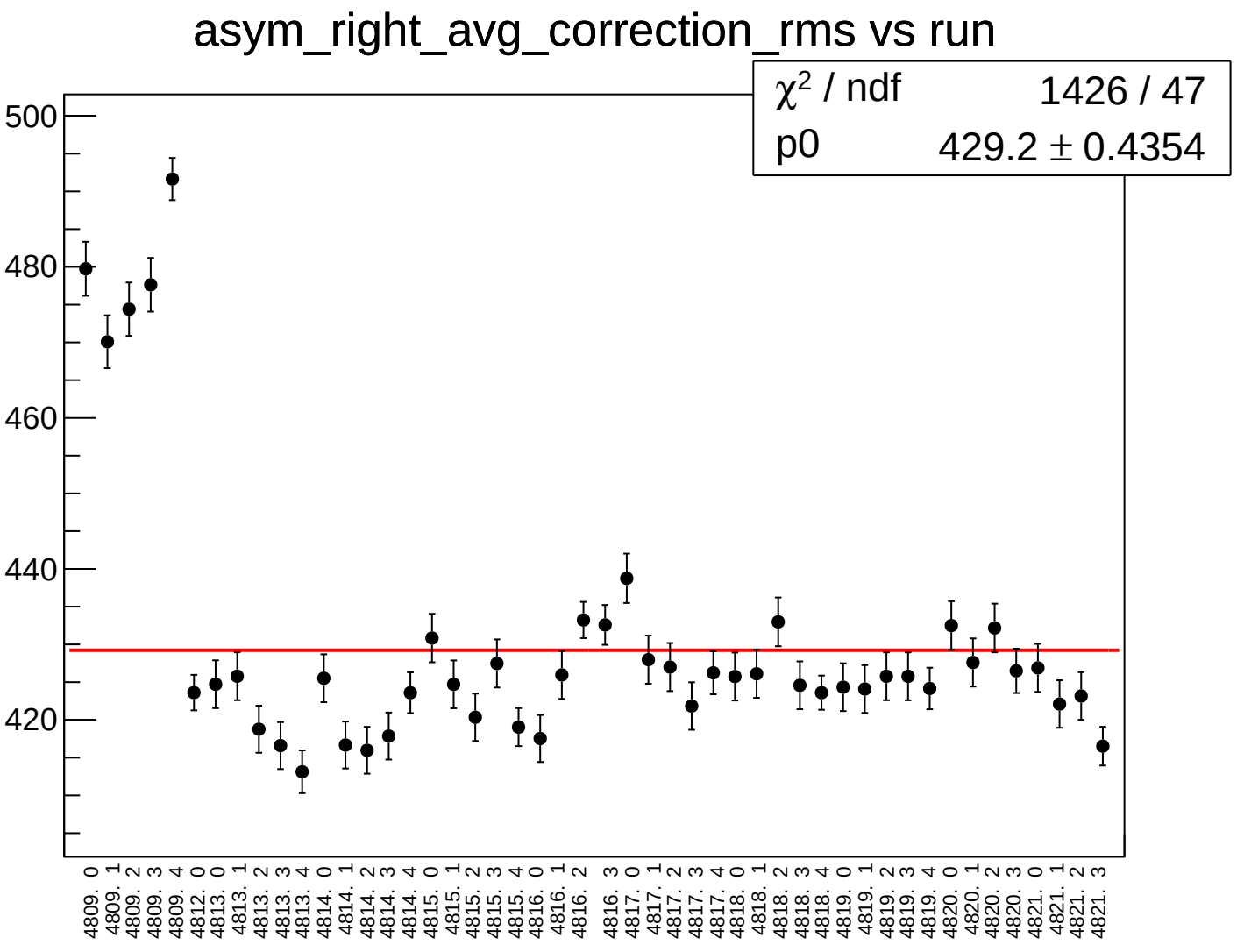

asym_left_dd_rms vs run
χ² / ndf 428.2 / 47
p0 29.93 ± 0.03035
32
31.5
31
30.5
30
29.5
29
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

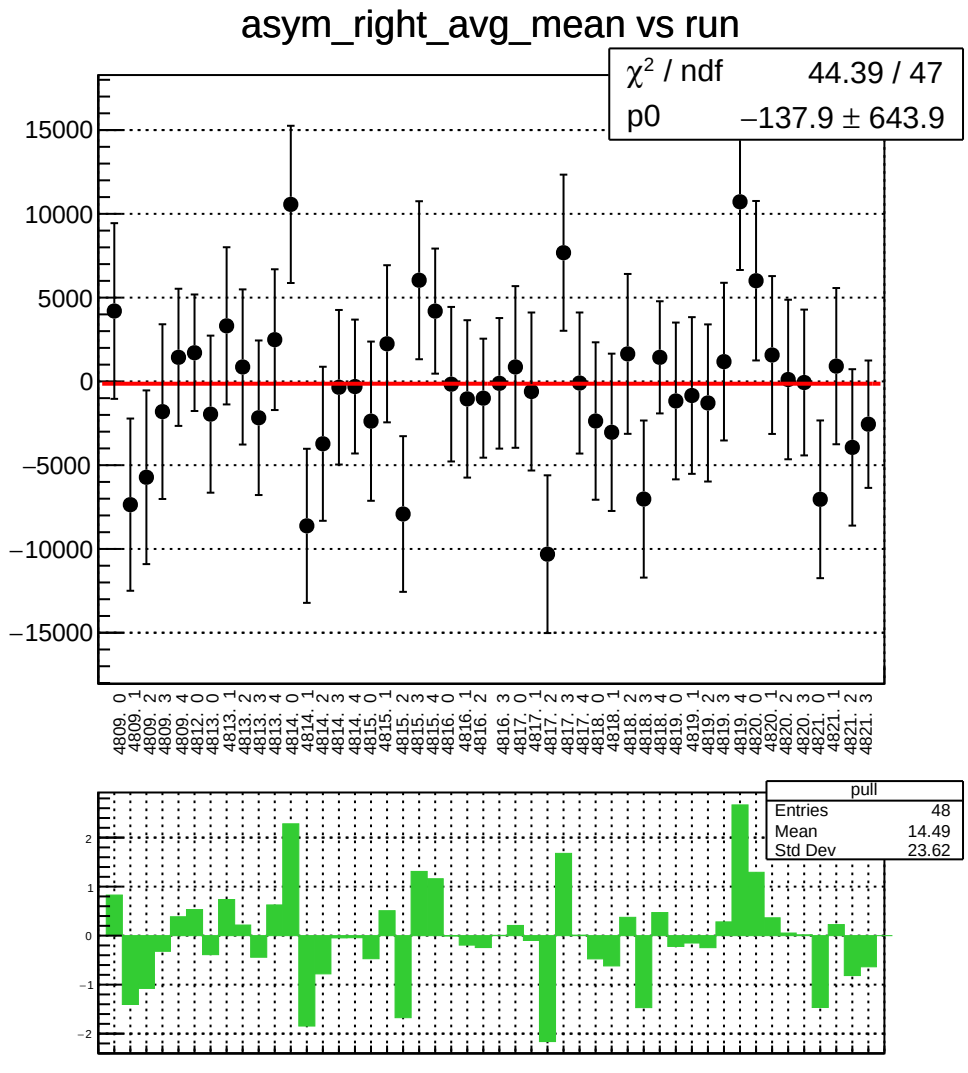

reg_asym_right_avg_mean vs run
χ² / ndf 44.39 / 47
p0 731.9 ± 187.9
pull
Entries 48
Mean 57.85
Std Dev 25.47

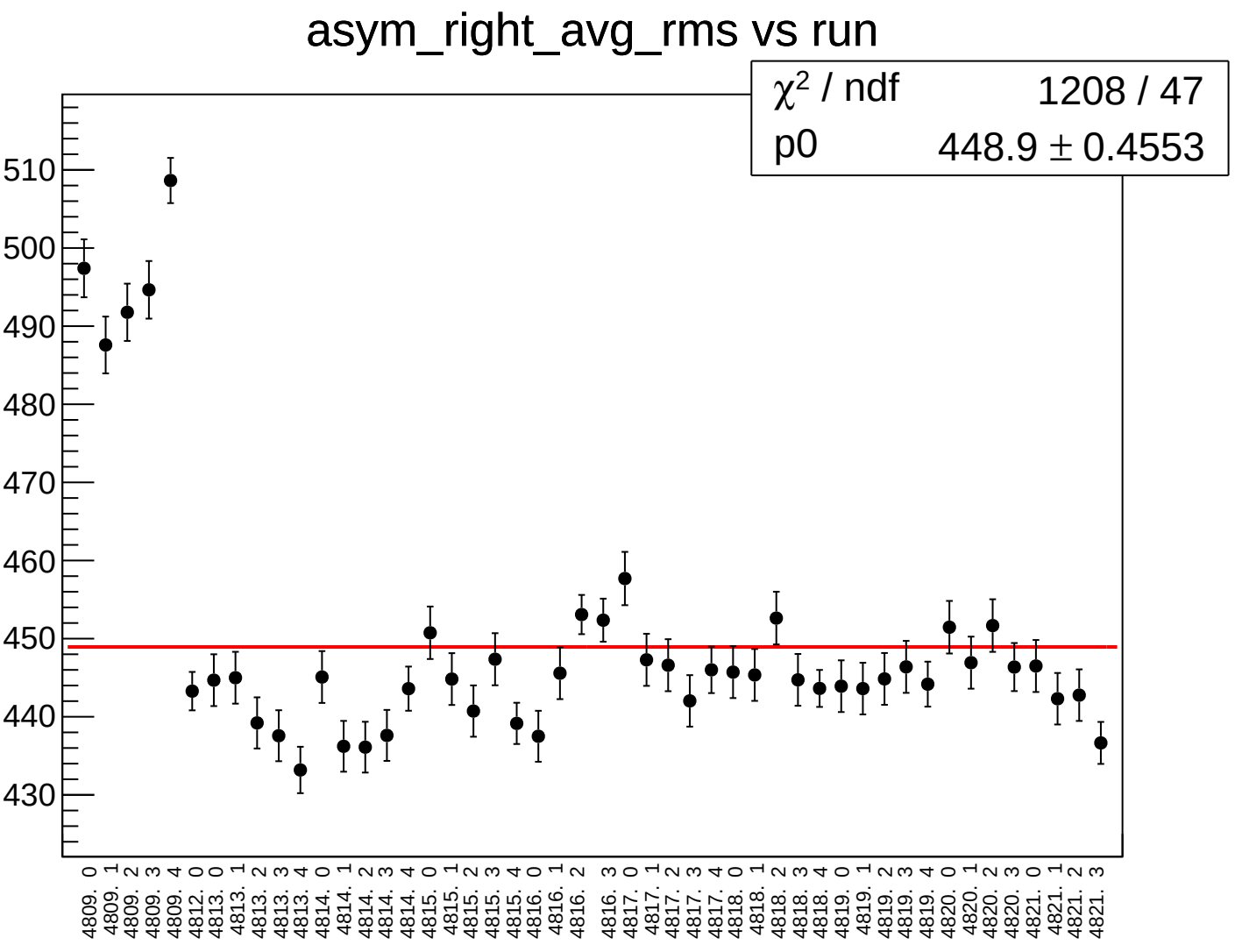

pull1D
Entries 48
Mean 0.01219
Std Dev 0.9616

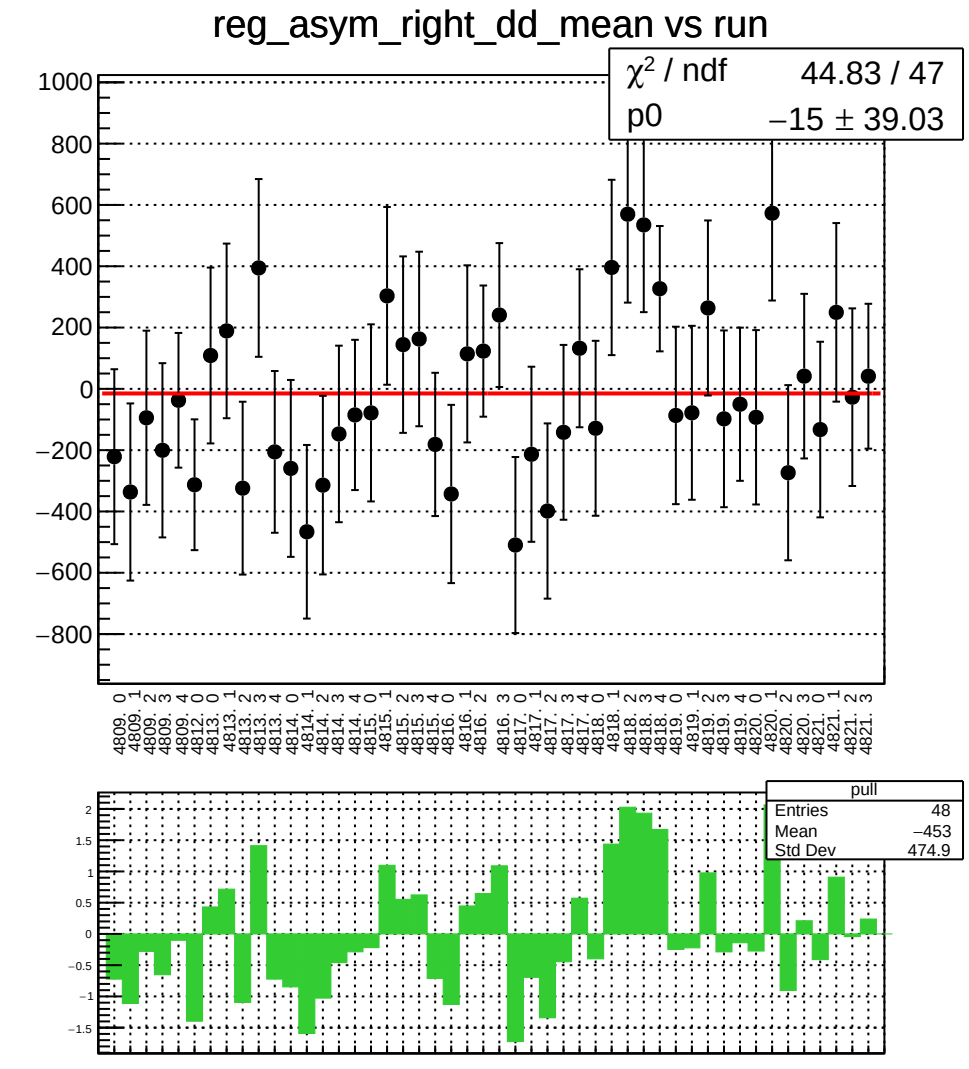

reg_asym_right_avg_rms vs run
χ² / ndf 79.68 / 47
p0 131.1 ± 0.1329
135
134
133
132
131
130
129
128
127
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

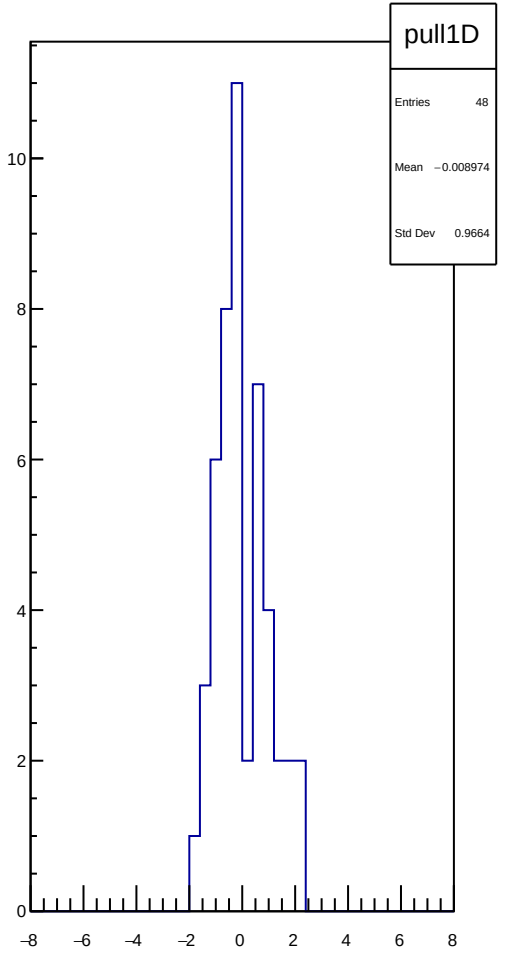

asym_right_avg_correction_mean vs run
χ² / ndf 42.15 / 47
p0 865.4 ± 615.7
15000
10000
5000
0
−5000
−10000
−15000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 21.49
Std Dev 27.99
2
1
0
−1
−2
pull1D
Entries 48
Mean 0.02734
Std Dev 0.9367
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

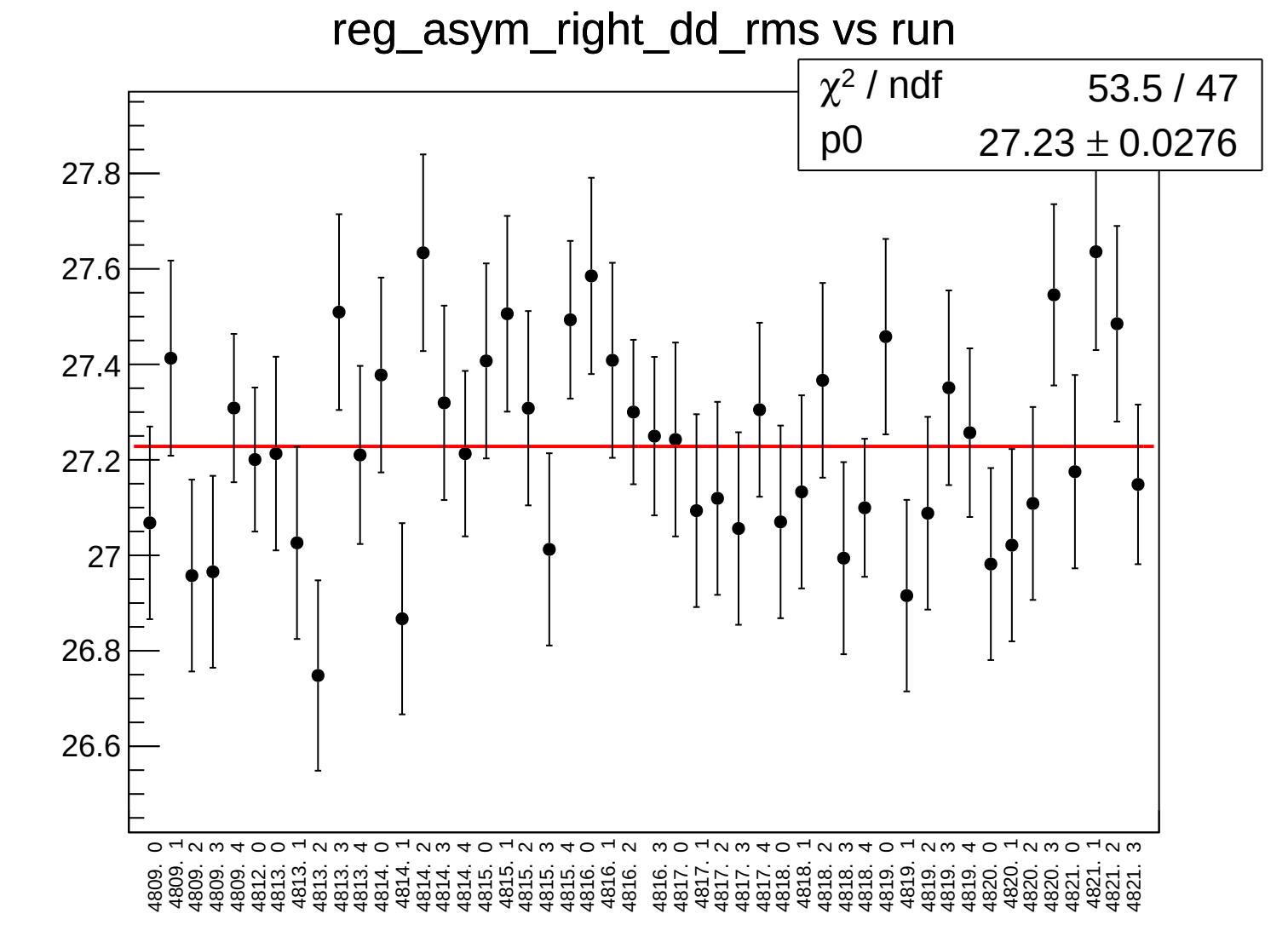

asym_right_avg_correction_rms vs run
χ² / ndf 1426 / 47
p0 429.2 ± 0.4354
500
480
460
440
420
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

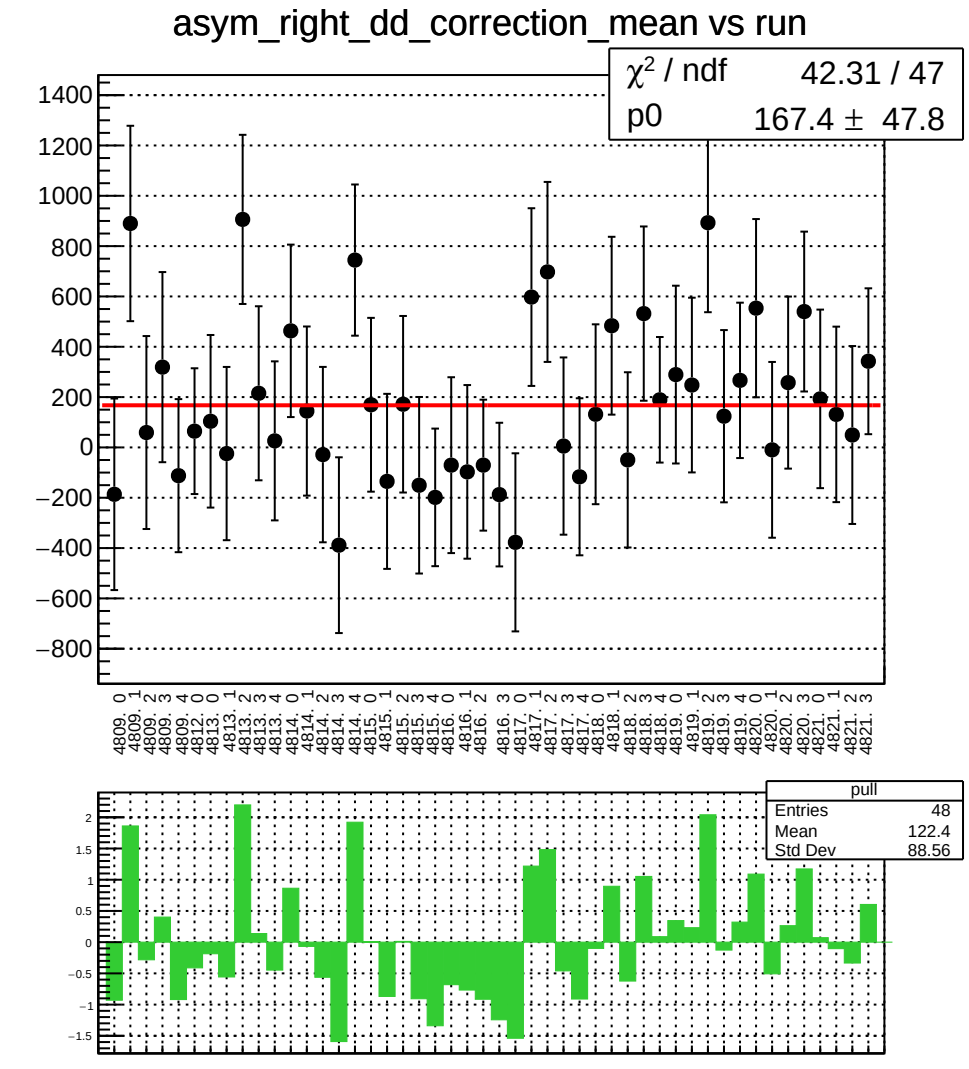

asym_right_avg_mean vs run
χ² / ndf 44.39 / 47
p0 −137.9 ± 643.9
15000
10000
5000
0
−5000
−10000
−15000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 14.49
Std Dev 23.62
2
1
0
−1
−2
pull1D
Entries 48
Mean −0.02204
Std Dev 0.9614
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

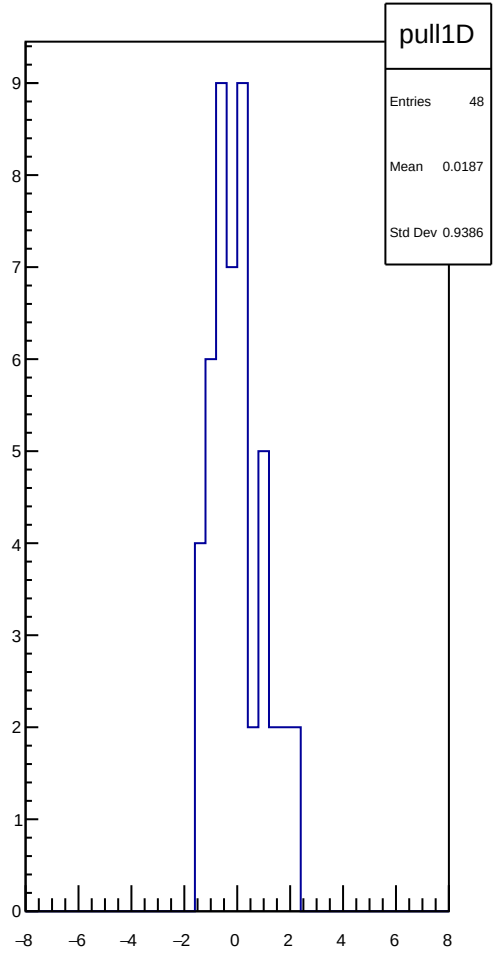

asym_right_avg_rms vs run
χ² / ndf 1208 / 47
p0 448.9 ± 0.4553
510
500
490
480
470
460
450
440
430
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

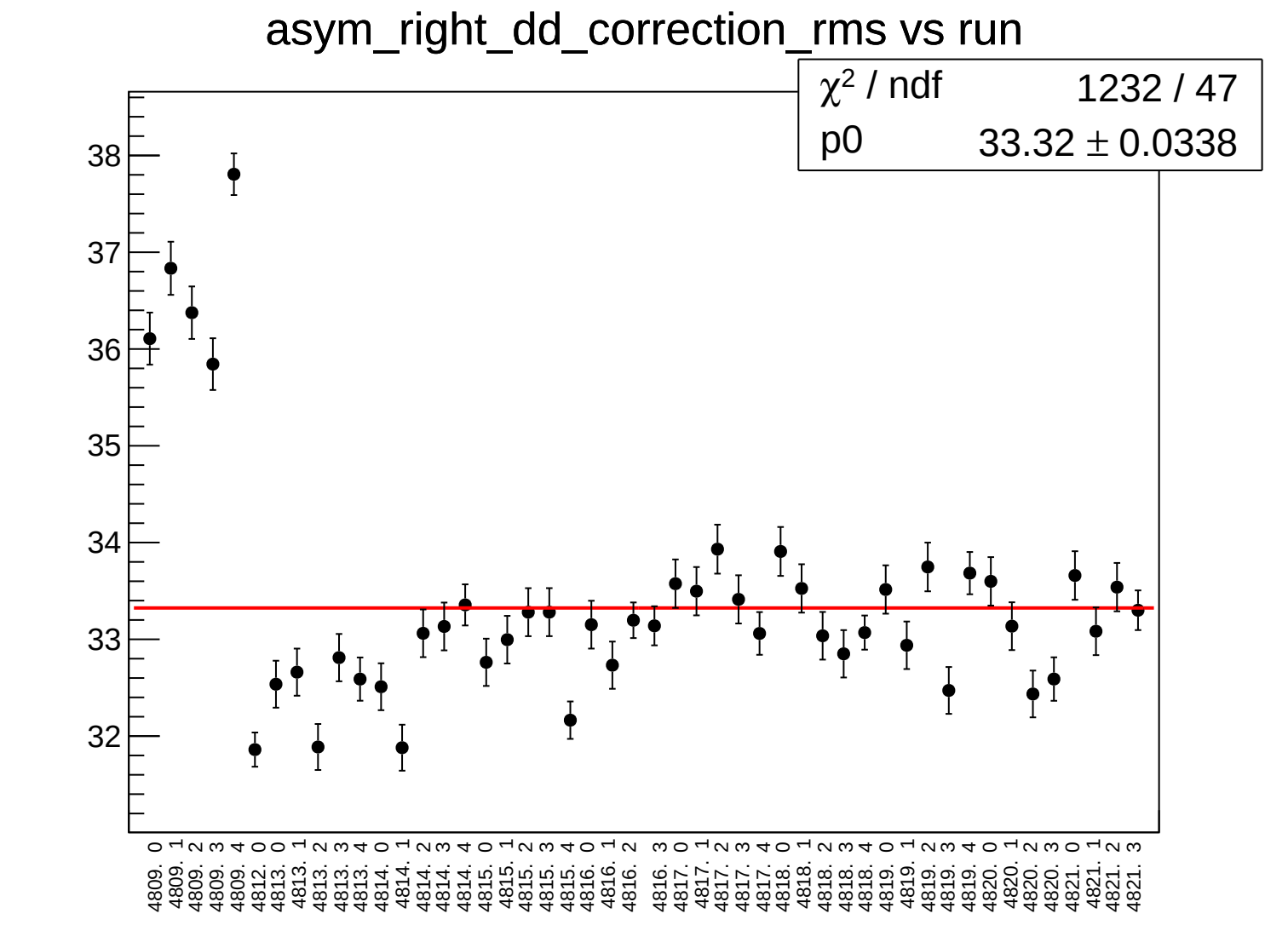

reg_asym_right_dd_mean vs run
χ² / ndf 44.83 / 47
p0 −15 ± 39.03
pull
Entries 48
Mean −453
Std Dev 474.9

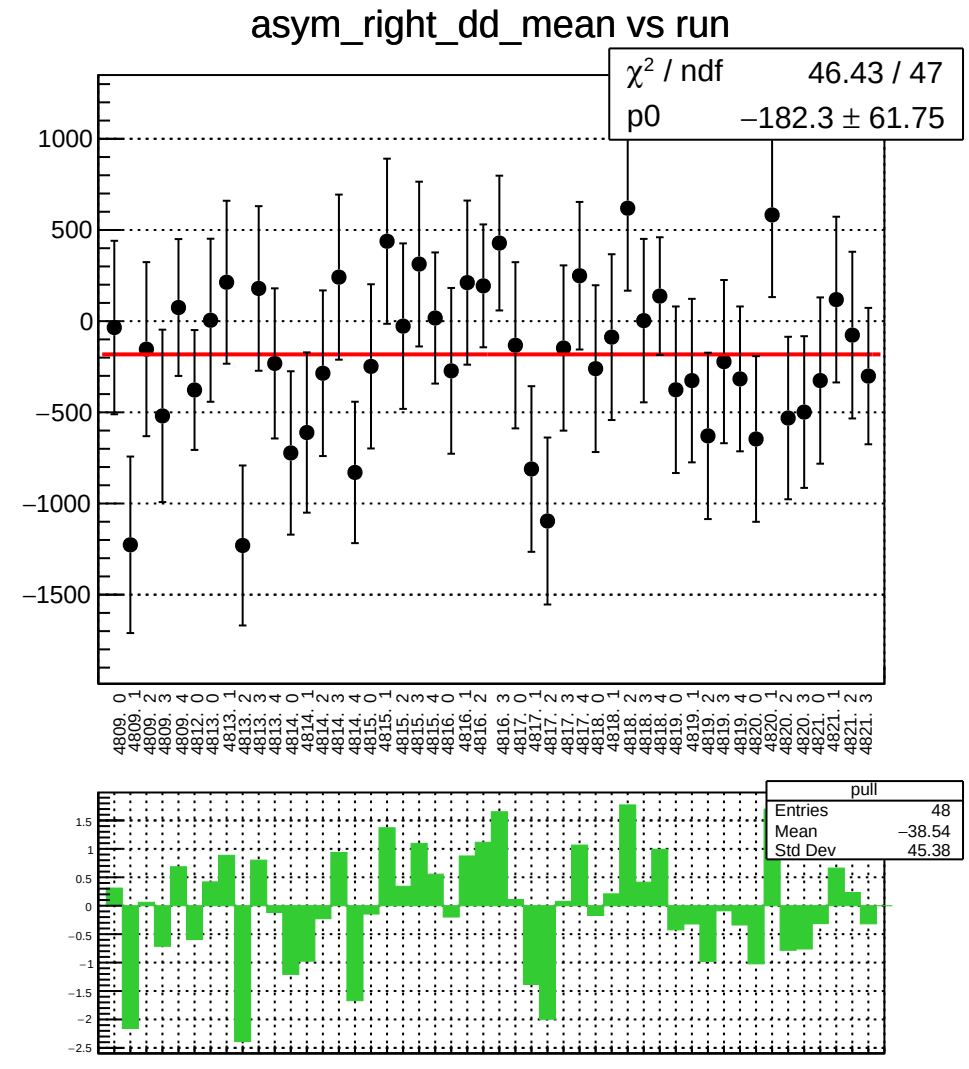

pull1D
Entries 48
Mean −0.008974
Std Dev 0.9664

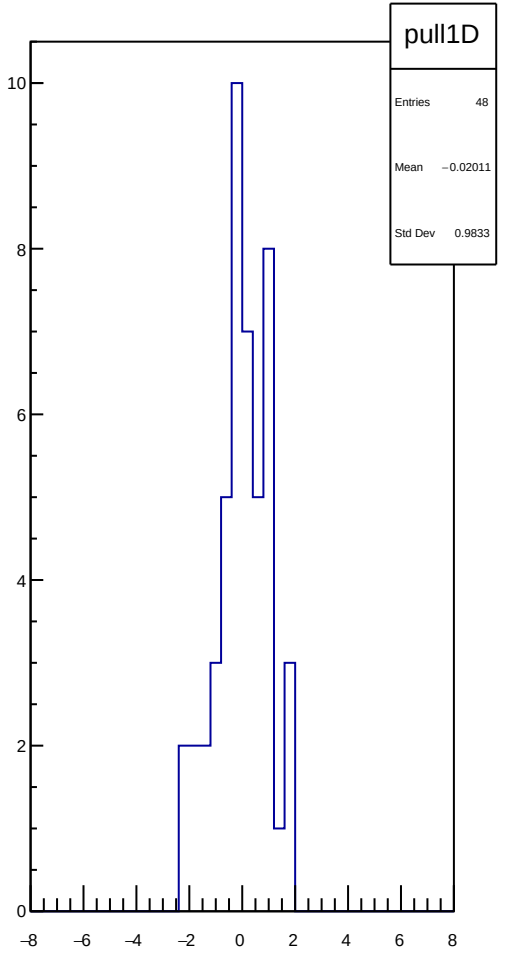

reg_asym_right_dd_rms vs run
χ² / ndf 53.5 / 47
p0 27.23 ± 0.0276
27.8
27.6
27.4
27.2
27
26.8
26.6
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

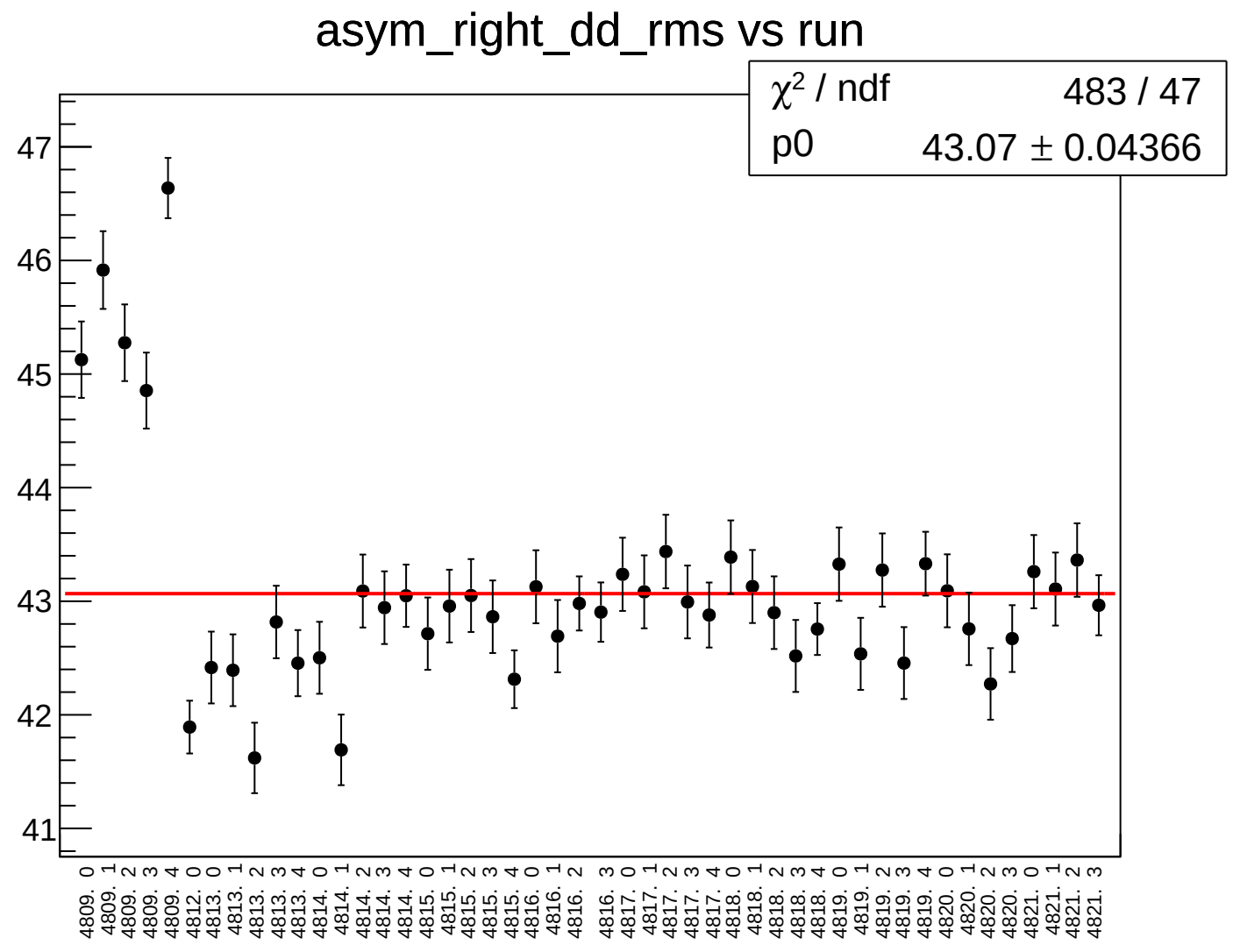

asym_right_dd_correction_mean vs run
χ² / ndf 42.31 / 47
p0 167.4 ± 47.8
pull
Entries 48
Mean 122.4
Std Dev 88.56

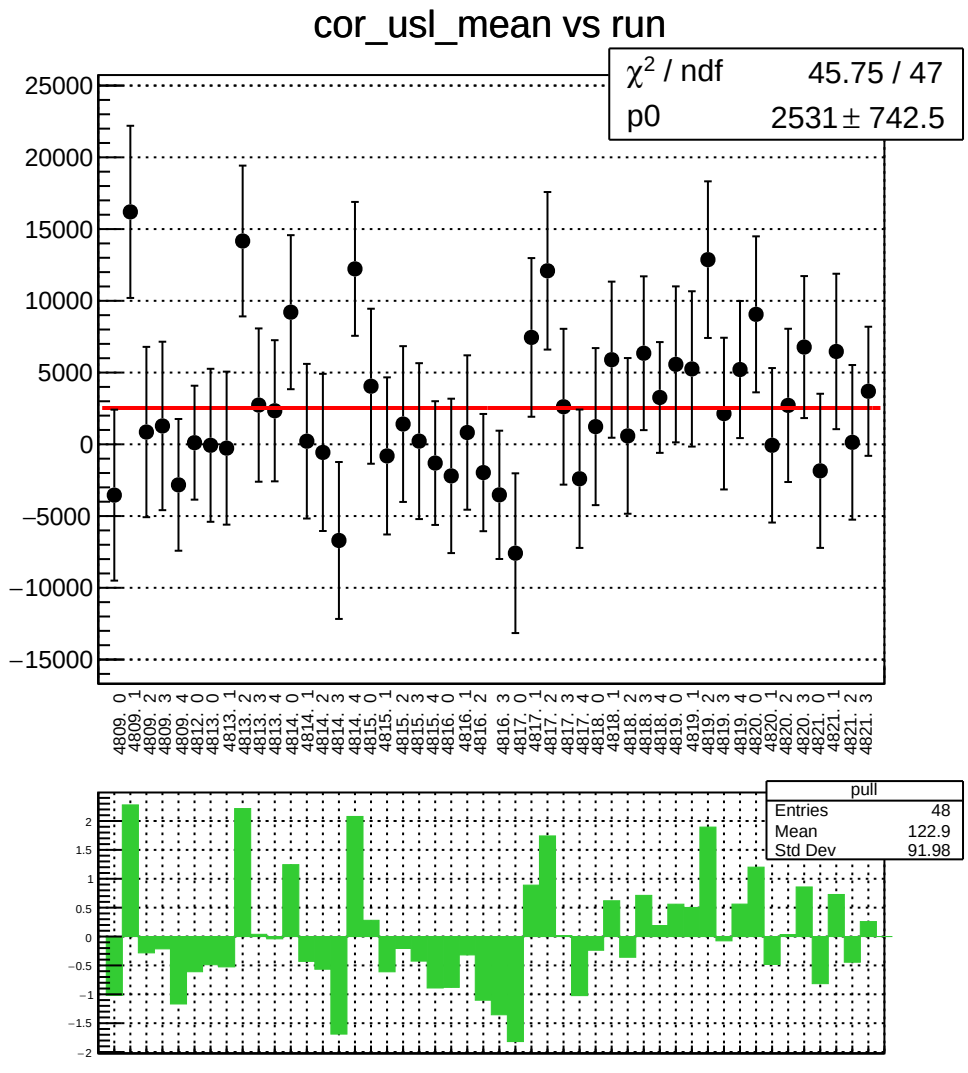

pull1D
Entries 48
Mean 0.0187
Std Dev 0.9386

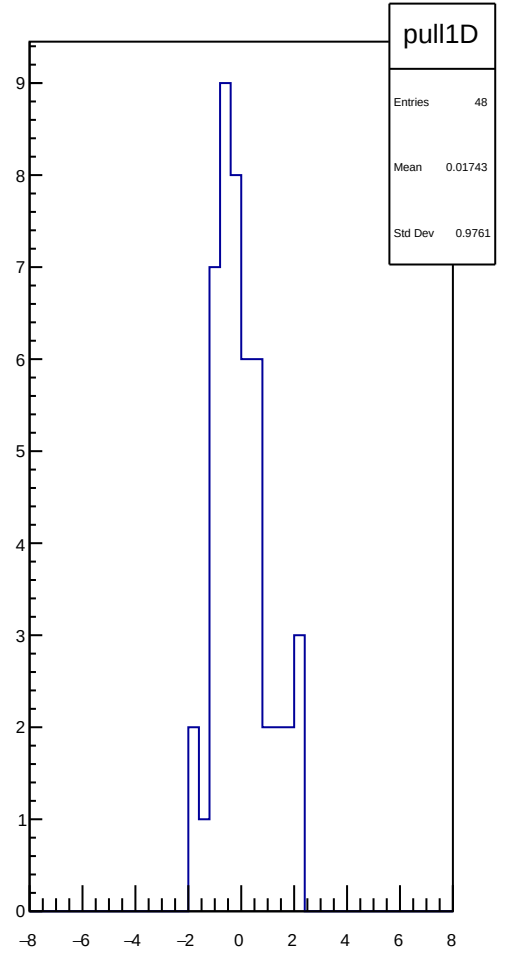

asym_right_dd_correction_rms vs run
χ² / ndf 1232 / 47
p0 33.32 ± 0.0338
38
37
36
35
34
33
32
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

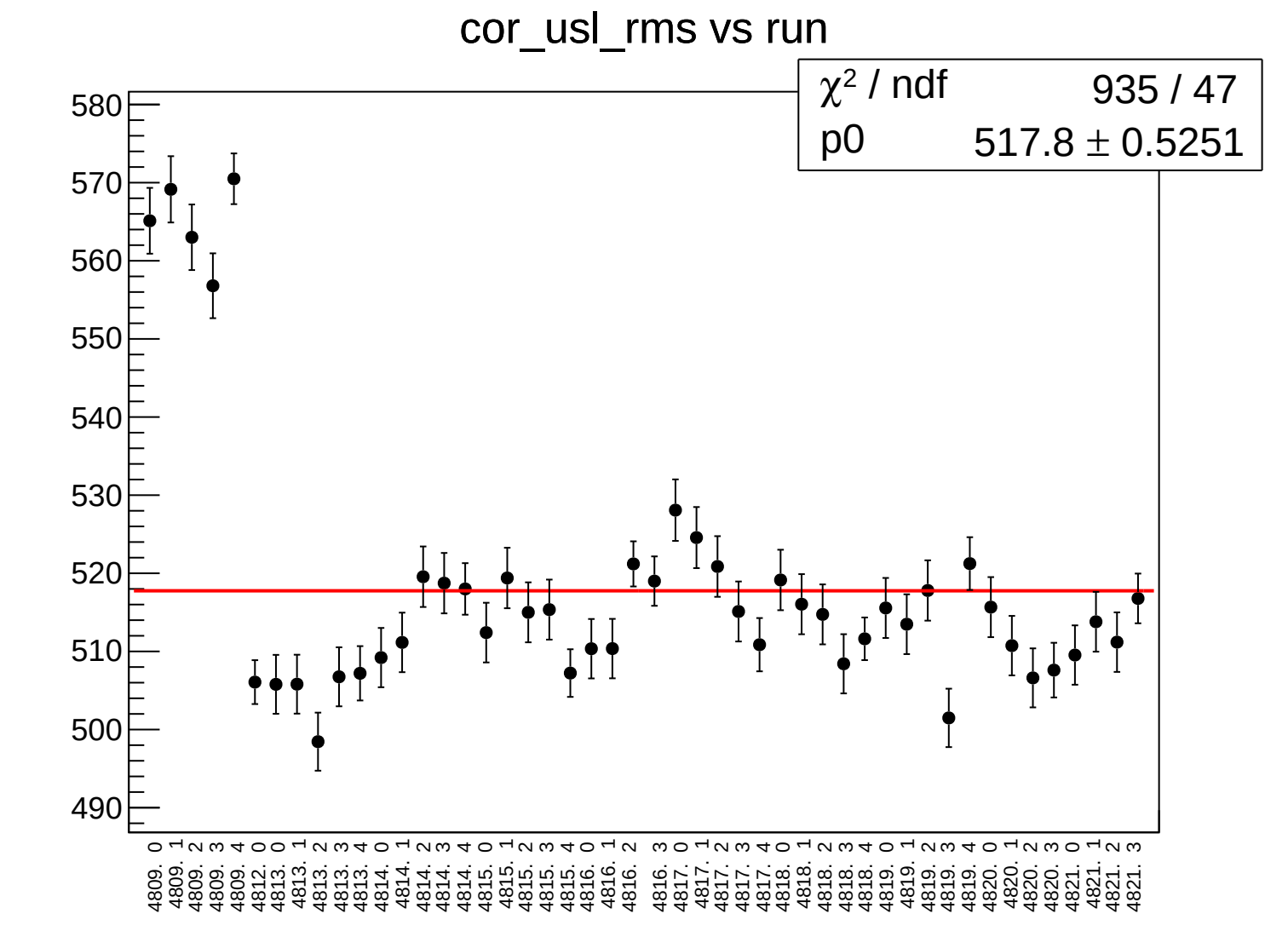

asym_right_dd_mean vs run
χ² / ndf 46.43 / 47
p0 −182.3 ± 61.75
1000
500
0
−500
−1000
−1500
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean −38.54
Std Dev 45.38
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

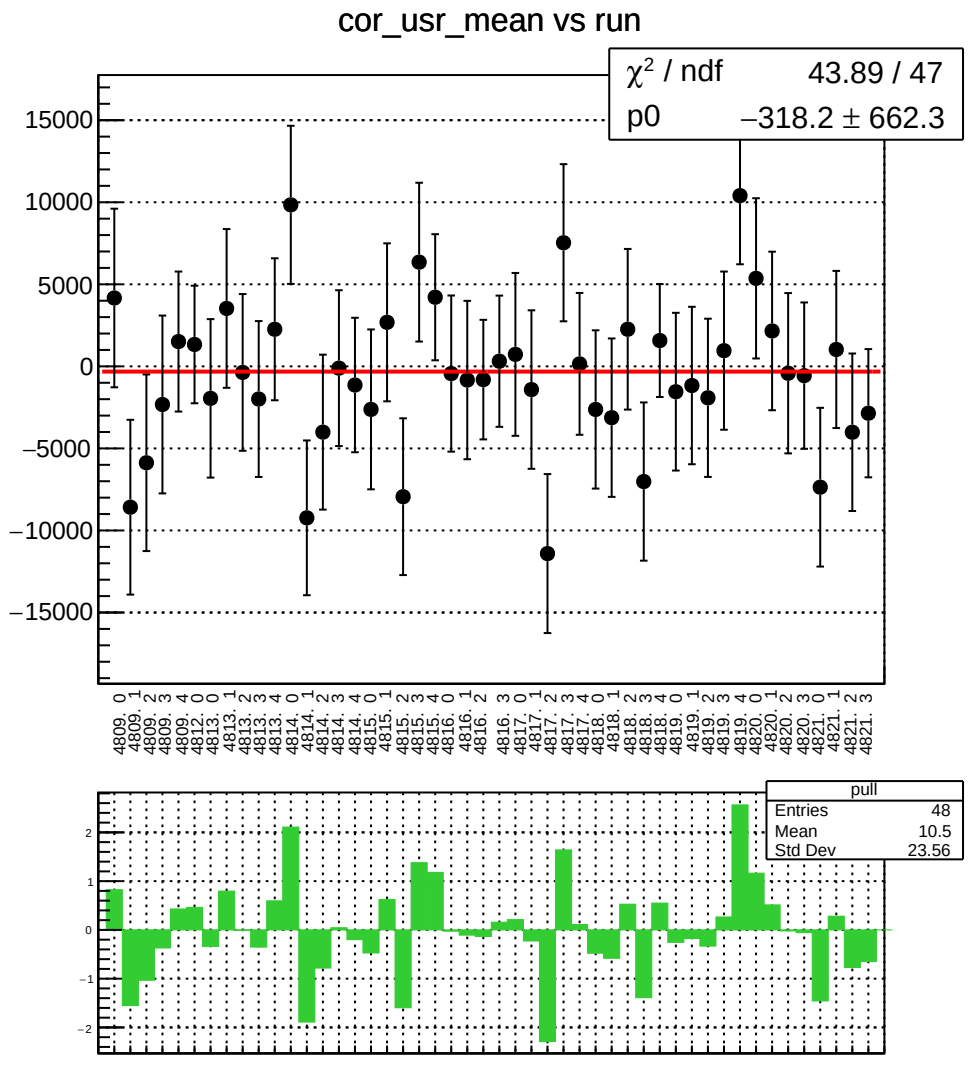

pull1D
Entries 48
Mean −0.02011
Std Dev 0.9833
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

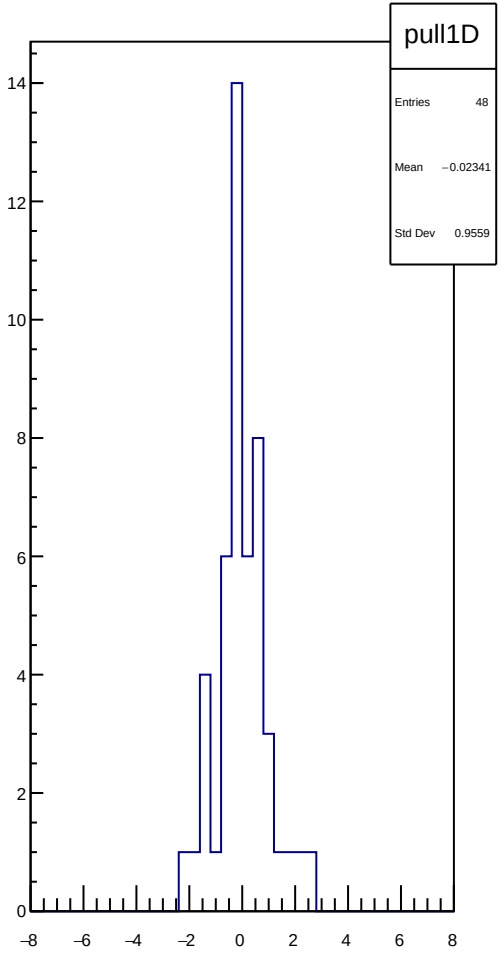

asym_right_dd_rms vs run
χ^2 / ndf 483 / 47
p0 43.07 ± 0.04366
47
46
45
44
43
42
41
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

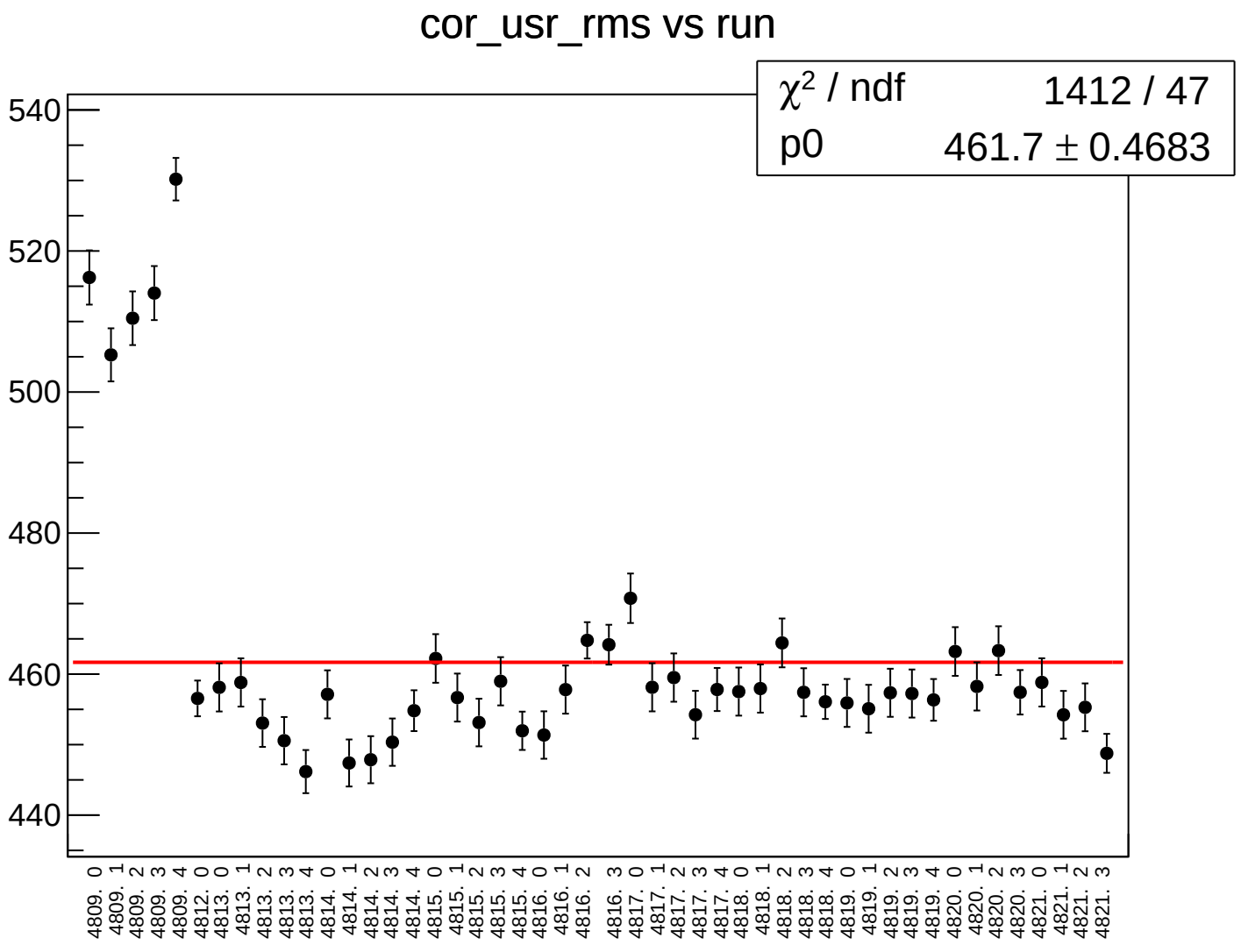

cor_usl_mean vs run
χ² / ndf 45.75 / 47
p0 2531 ± 742.5
pull
Entries 48
Mean 122.9
Std Dev 91.98

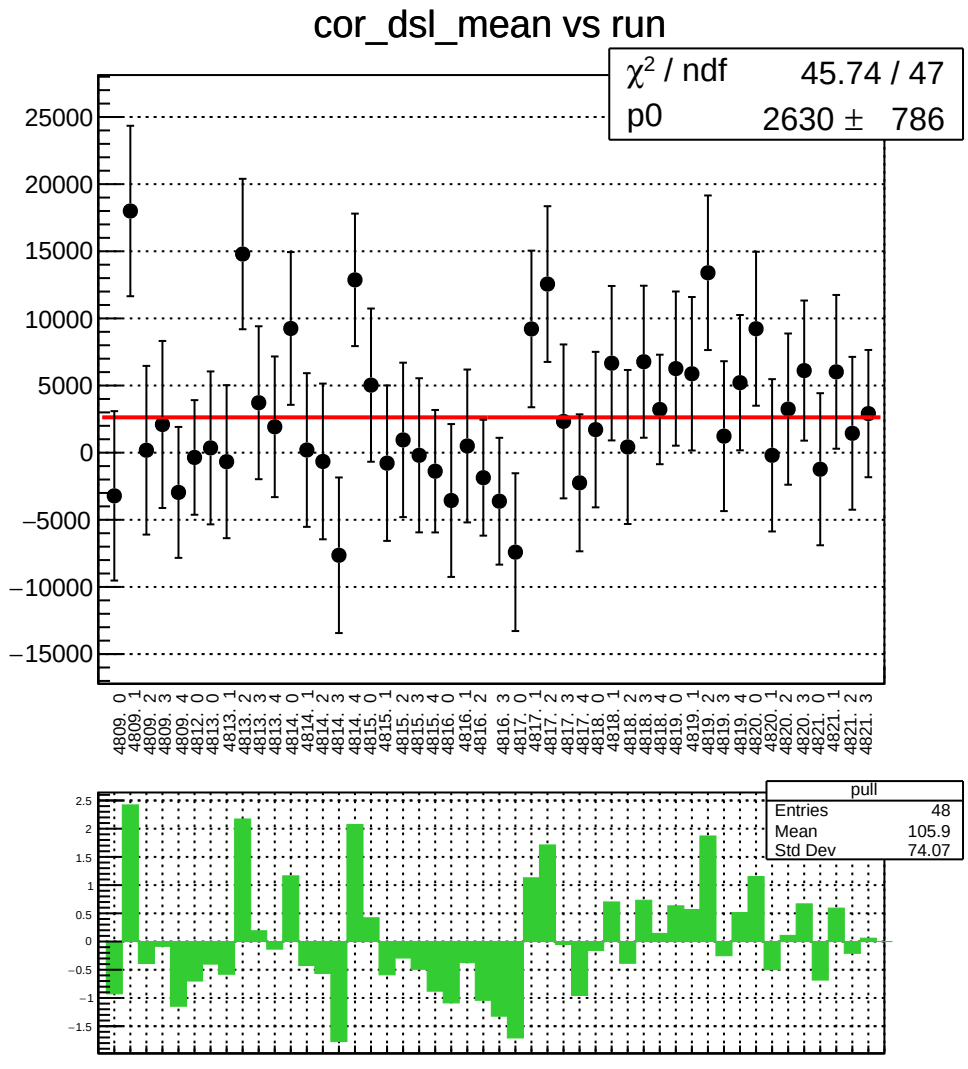

pull1D
Entries 48
Mean 0.01743
Std Dev 0.9761

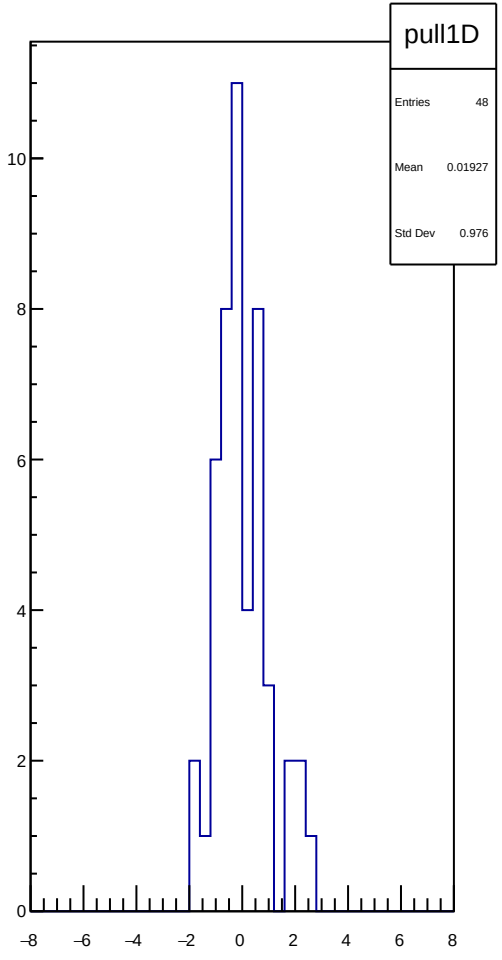

cor_usl_rms vs run
χ² / ndf 935 / 47
p0 517.8 ± 0.5251
580
570
560
550
540
530
520
510
500
490
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

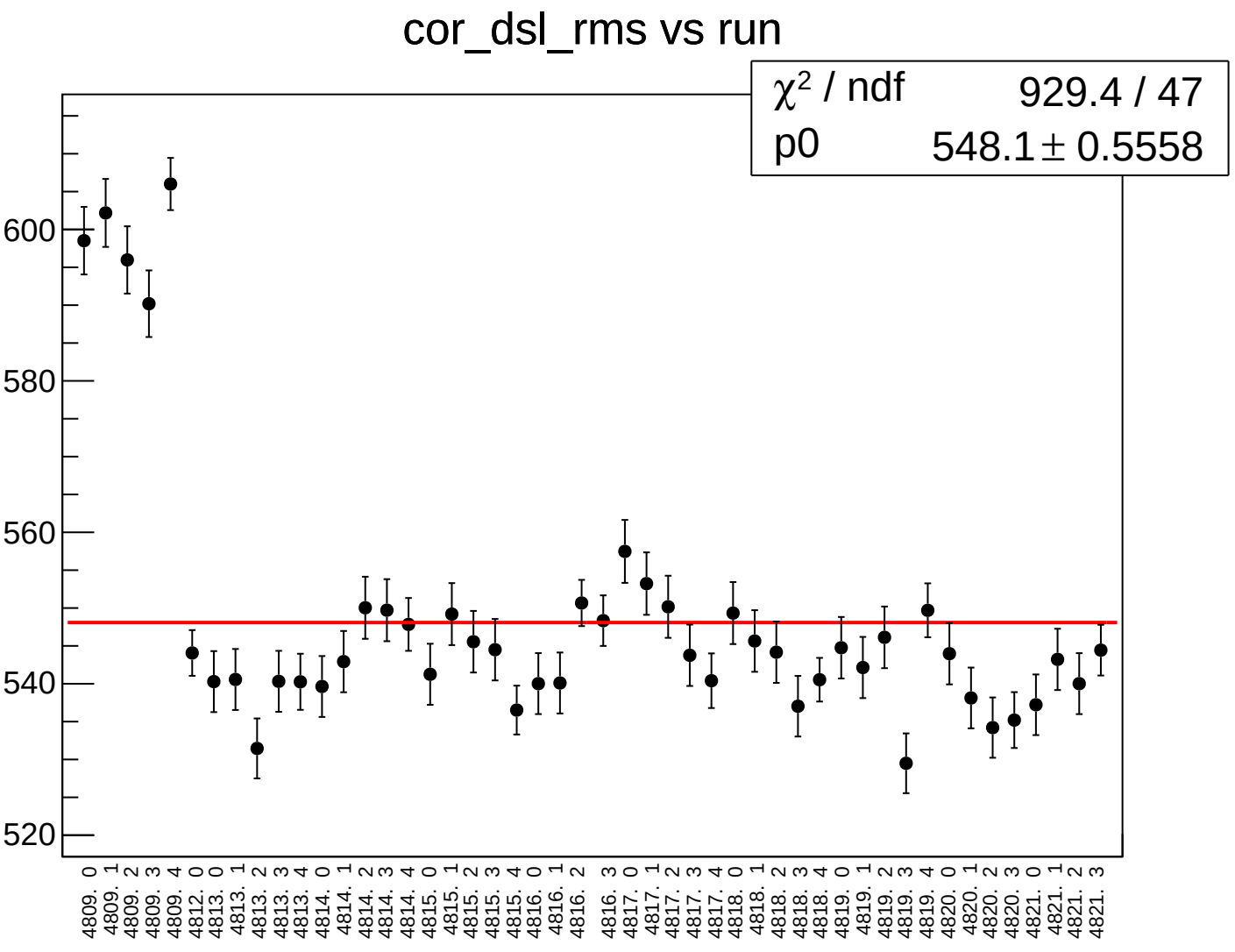

cor_usr_mean vs run
χ² / ndf 43.89 / 47
p0 −318.2 ± 662.3
15000
10000
5000
0
−5000
−10000
−15000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 10.5
Std Dev 23.56
2
1
0
−1
−2

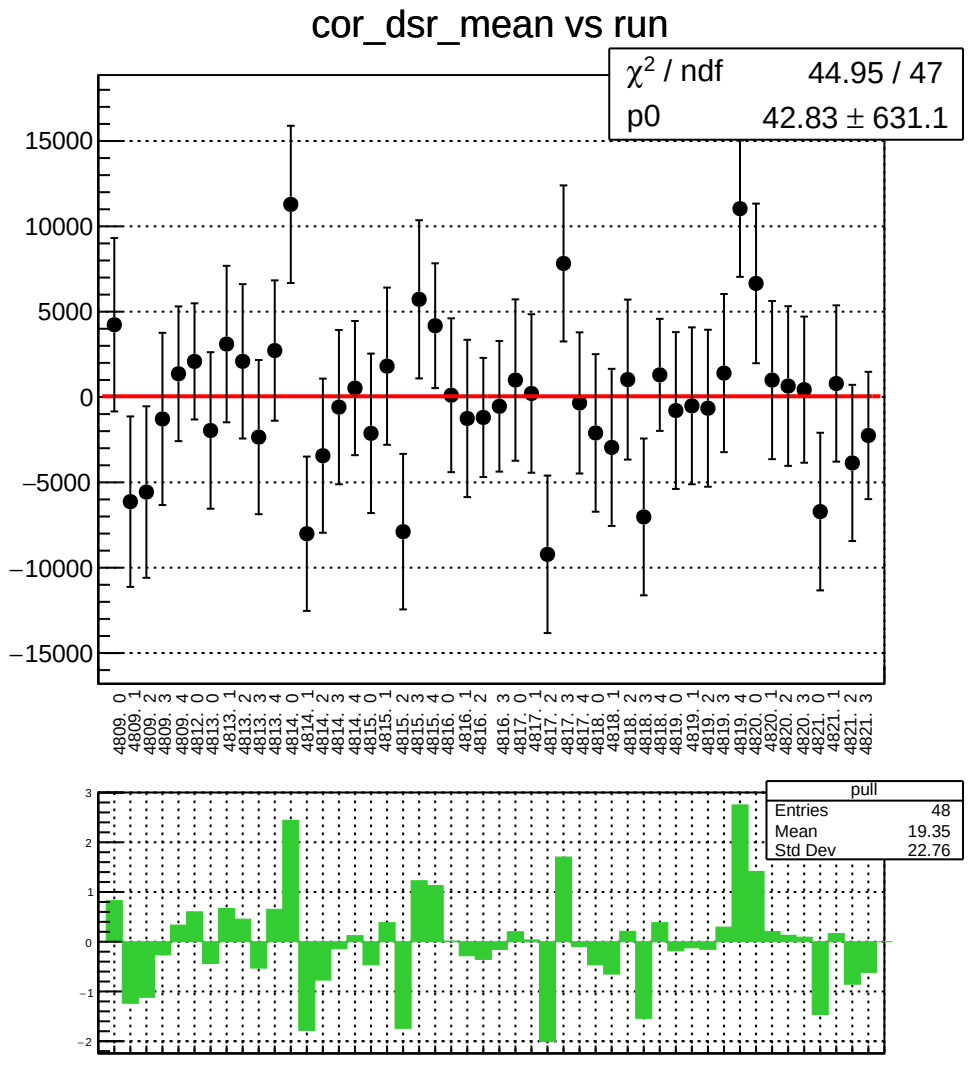

pull1D
Entries 48
Mean −0.02341
Std Dev 0.9559
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

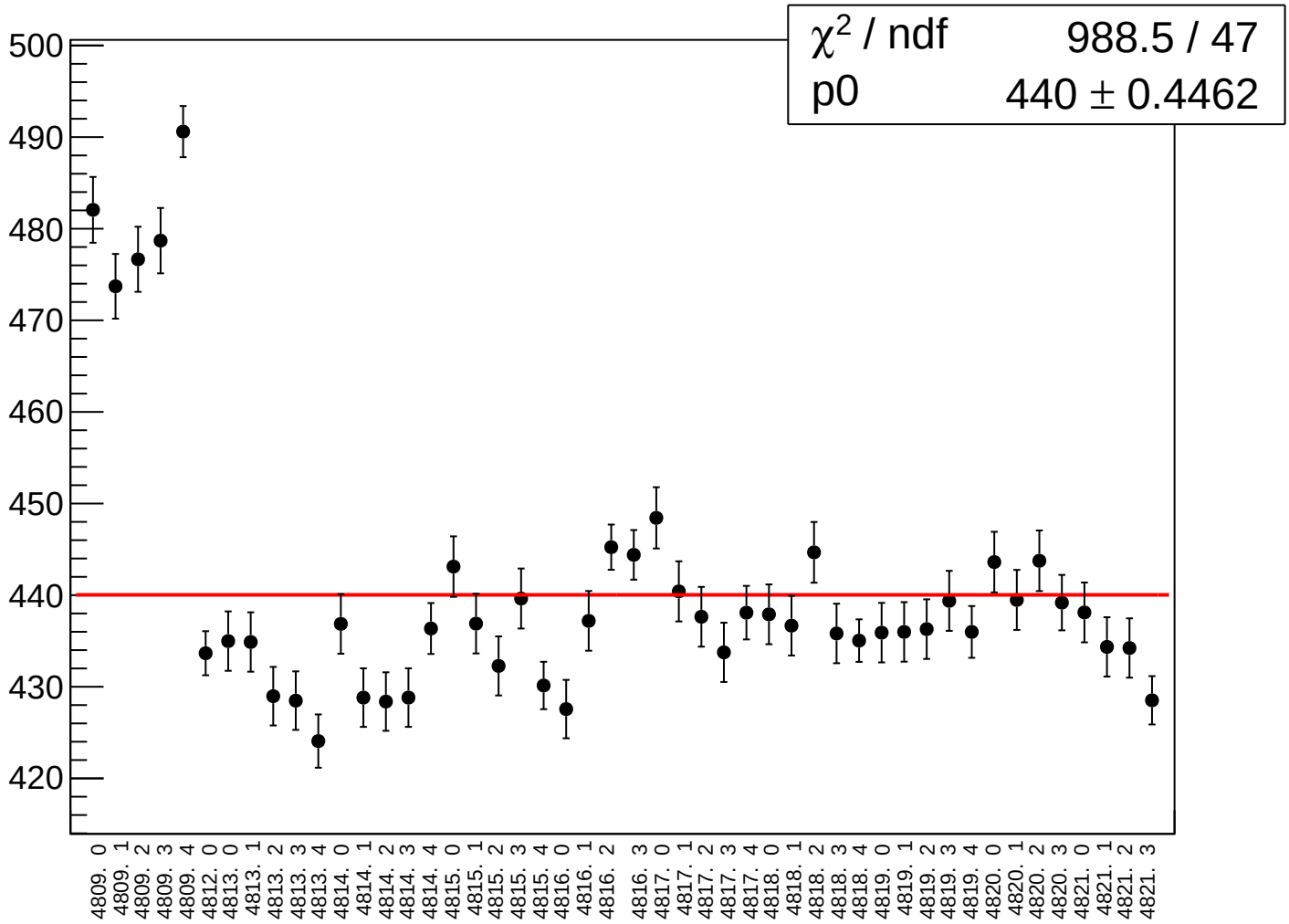

cor_usr_rms vs run
χ² / ndf 1412 / 47
p0 461.7 ± 0.4683
540
520
500
480
460
440
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3


cor_dsl_mean vs run
χ² / ndf 45.74 / 47
p0 2630 ± 786
pull
Entries 48
Mean 105.9
Std Dev 74.07


pull1D
Entries 48
Mean 0.01927
Std Dev 0.976


cor_dsl_rms vs run
χ² / ndf 929.4 / 47
p0 548.1 ± 0.5558
600
580
560
540
520
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3


cor_dsr_mean vs run
χ² / ndf 44.95 / 47
p0 42.83 ± 631.1
15000
10000
5000
0
−5000
−10000
−15000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 19.35
Std Dev 22.76
3
2
1
0
−1
−2
pull1D
Entries 48
Mean −0.02045
Std Dev 0.9675
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_dsr_rms vs run
χ² / ndf 988.5 / 47
p0 440 ± 0.4462
500
490
480
470
460
450
440
430
420
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
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4820. 0
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4821. 0
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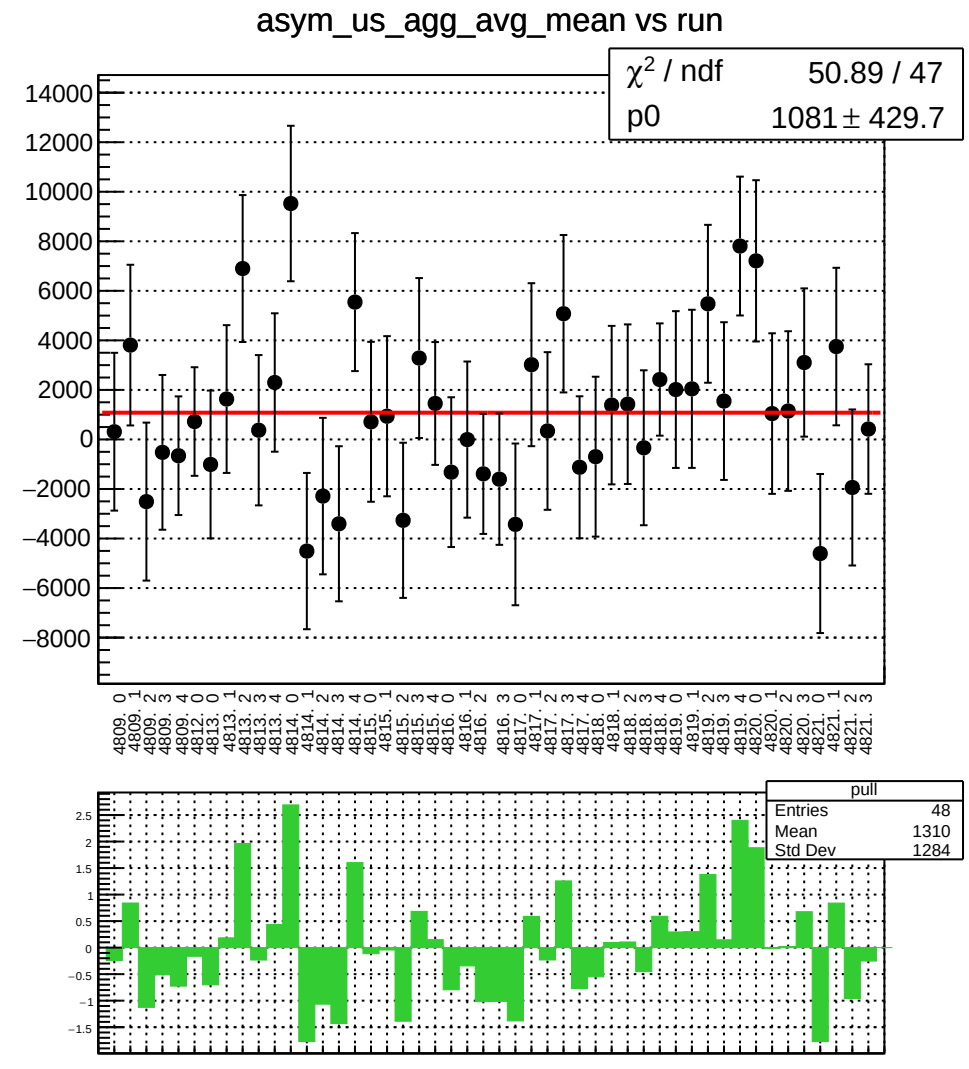
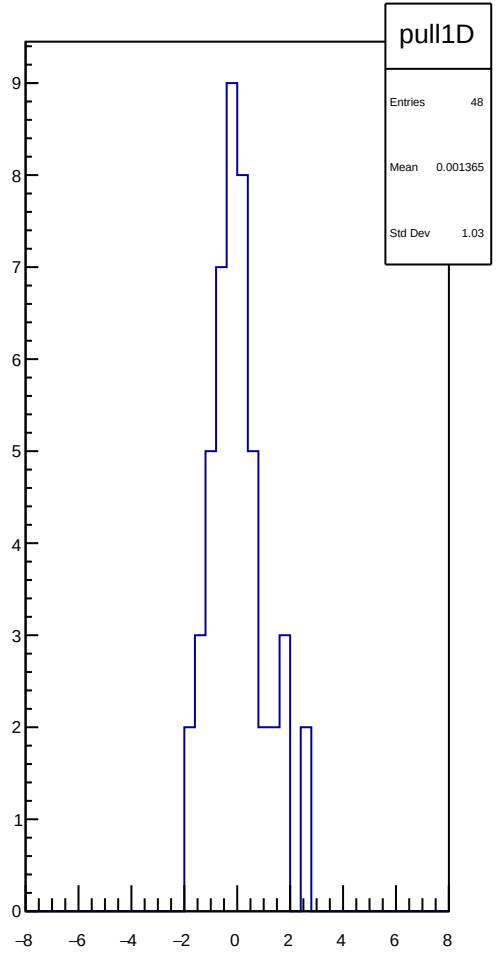
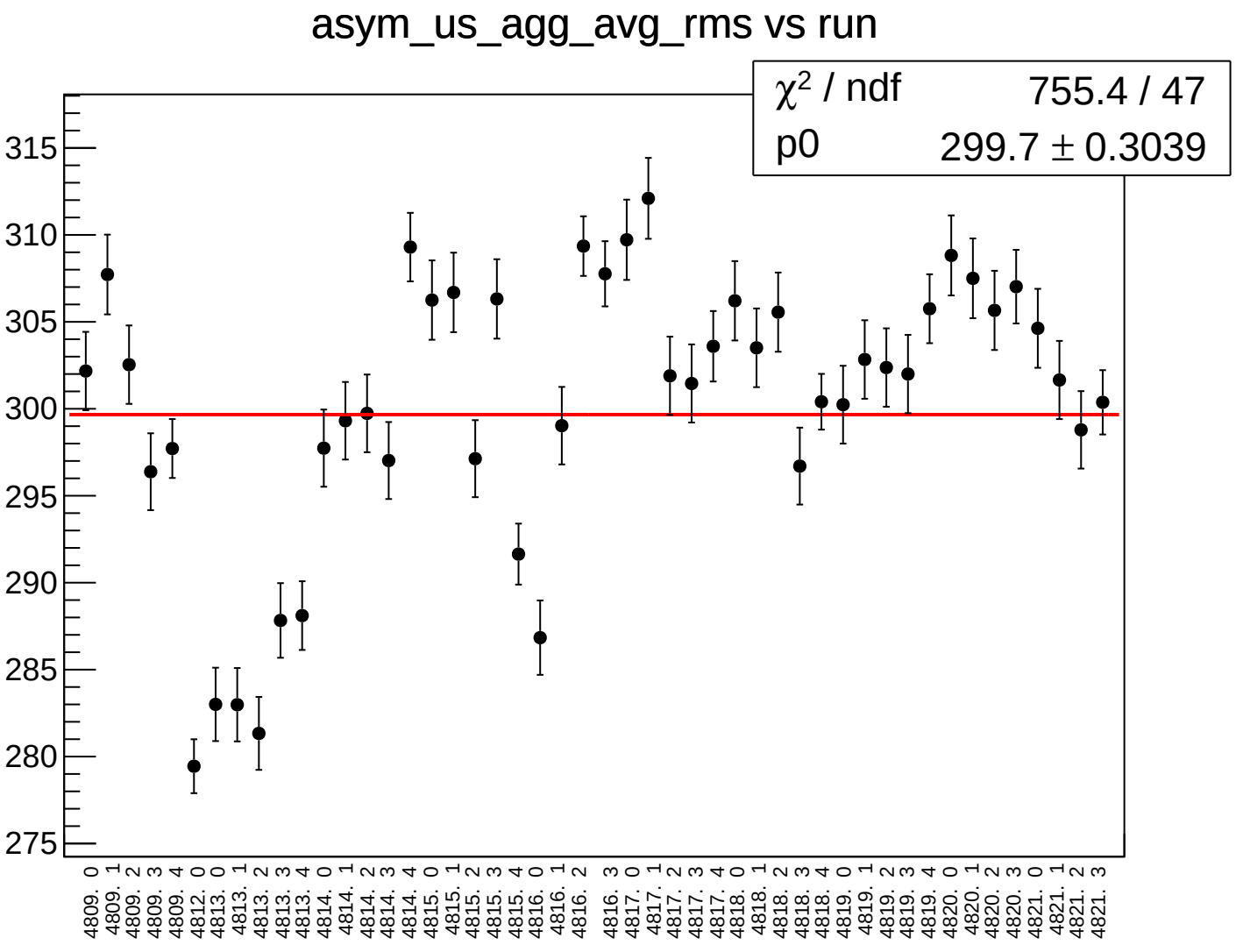
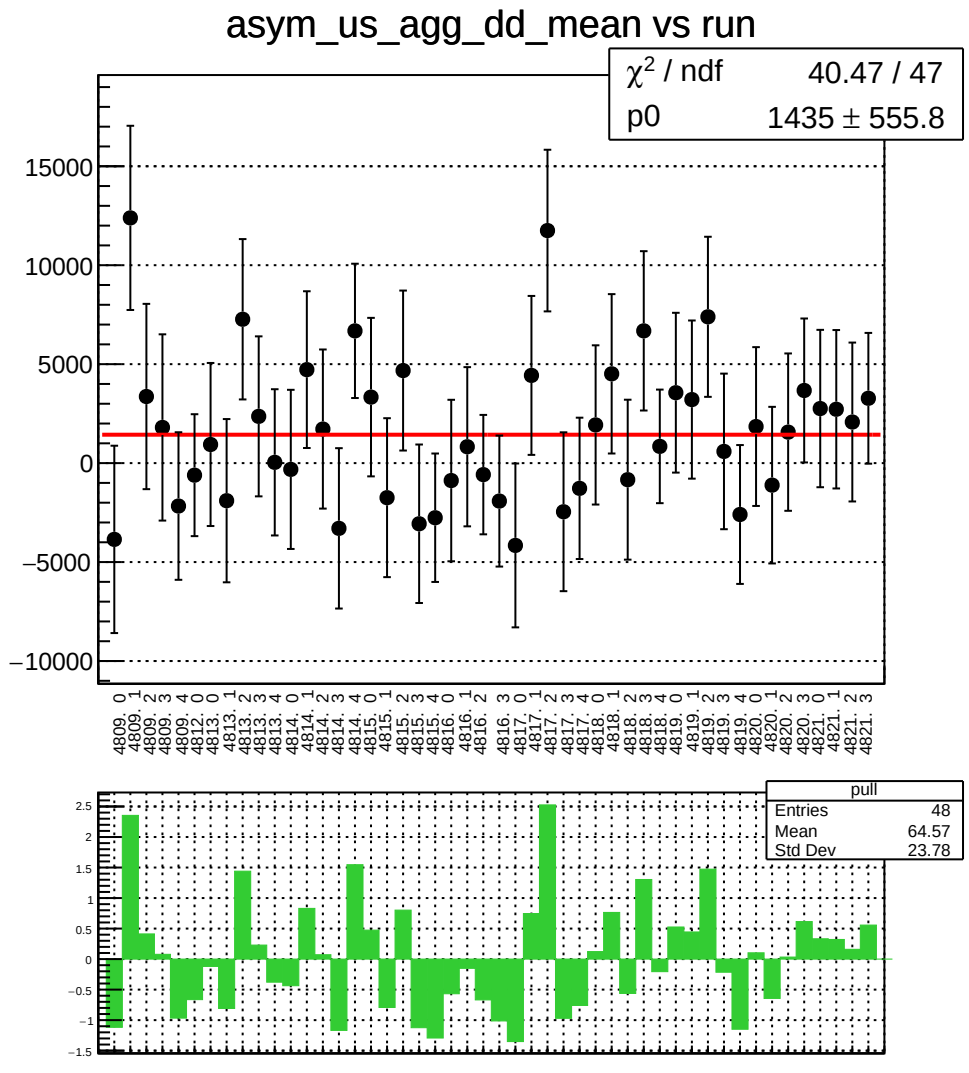
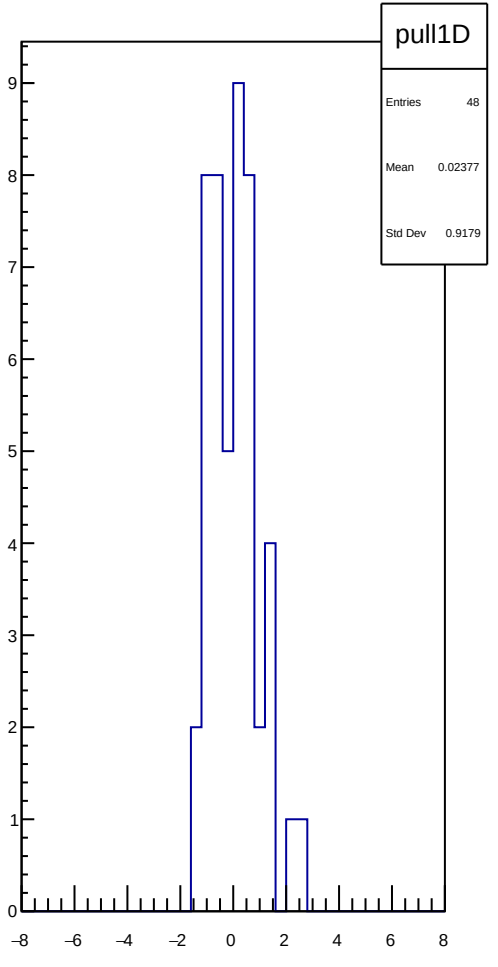
4821. 2
4821. 3

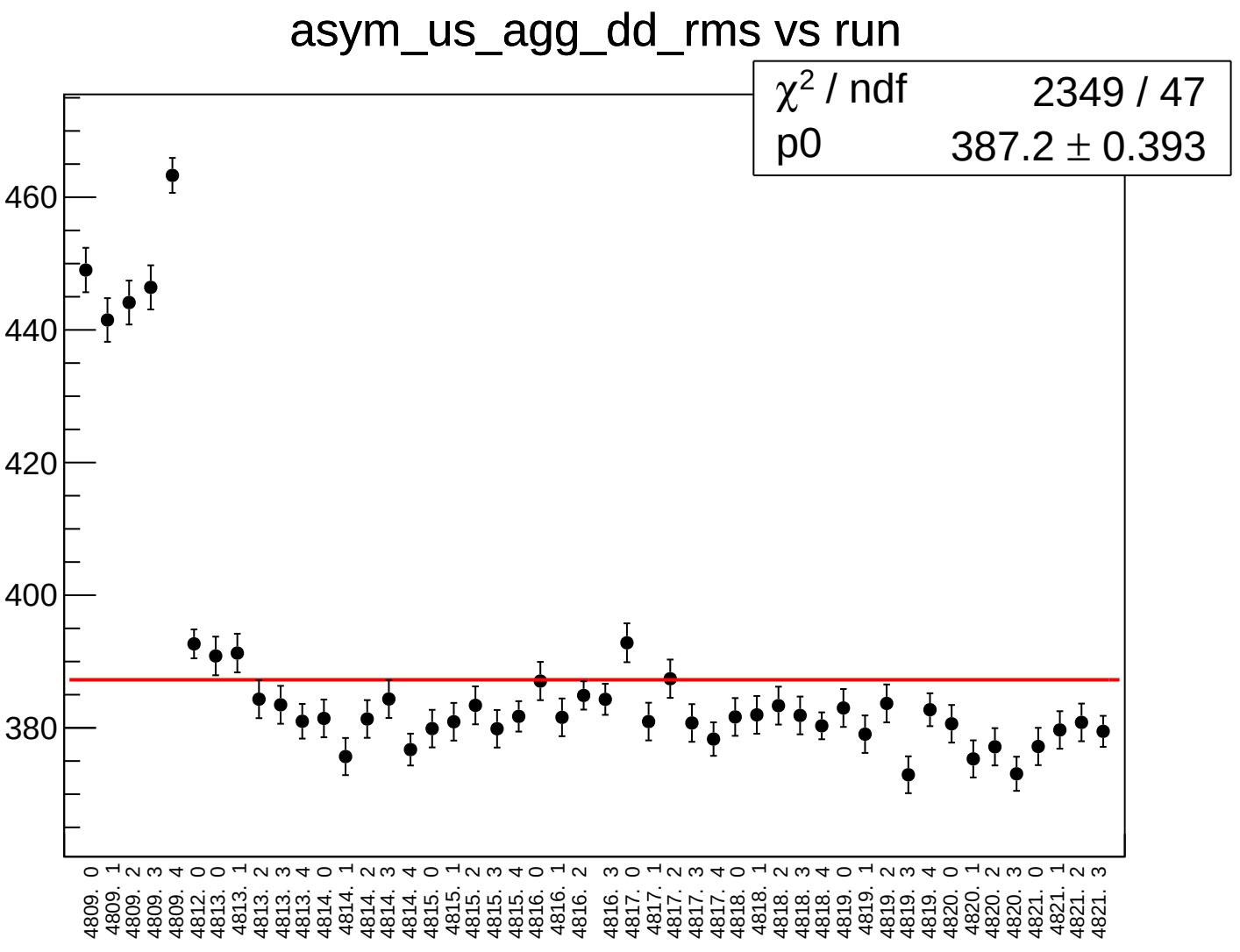

asym_us_agg_avg_mean vs run
χ^2 / ndf 50.89 / 47
p0 1081 ± 429.7
14000
12000
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 1310
Std Dev 1284
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

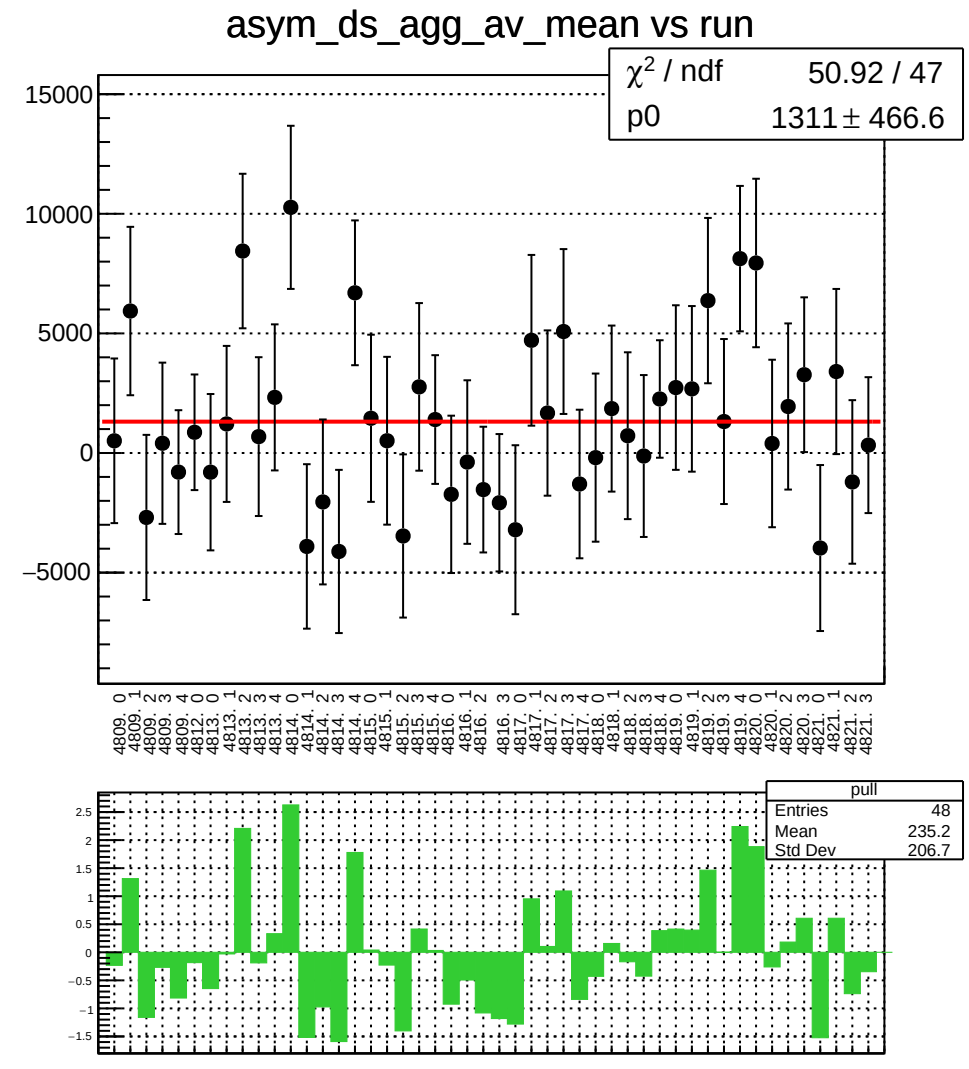

pull1D
Entries 48
Mean 0.001365
Std Dev 1.03
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

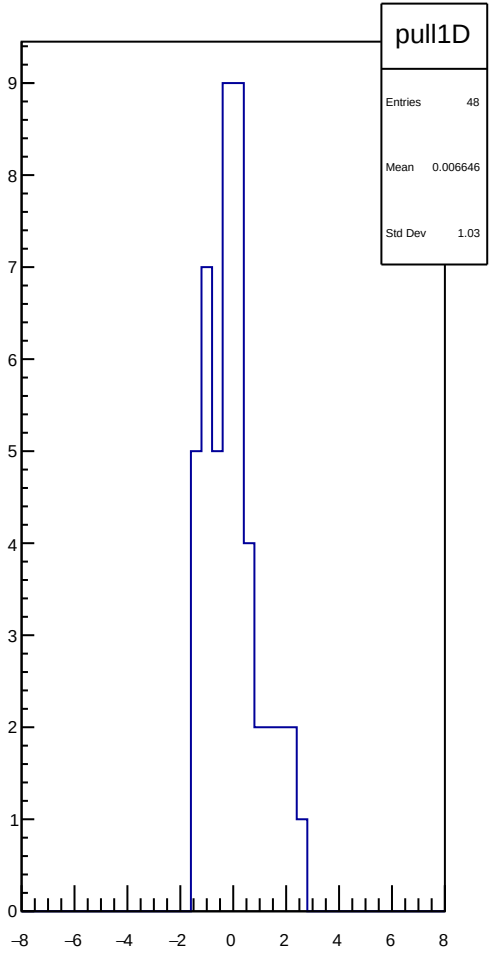

asym_us_agg_avg_rms vs run
χ² / ndf 755.4 / 47
p0 299.7 ± 0.3039
315
310
305
300
295
290
285
280
275
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

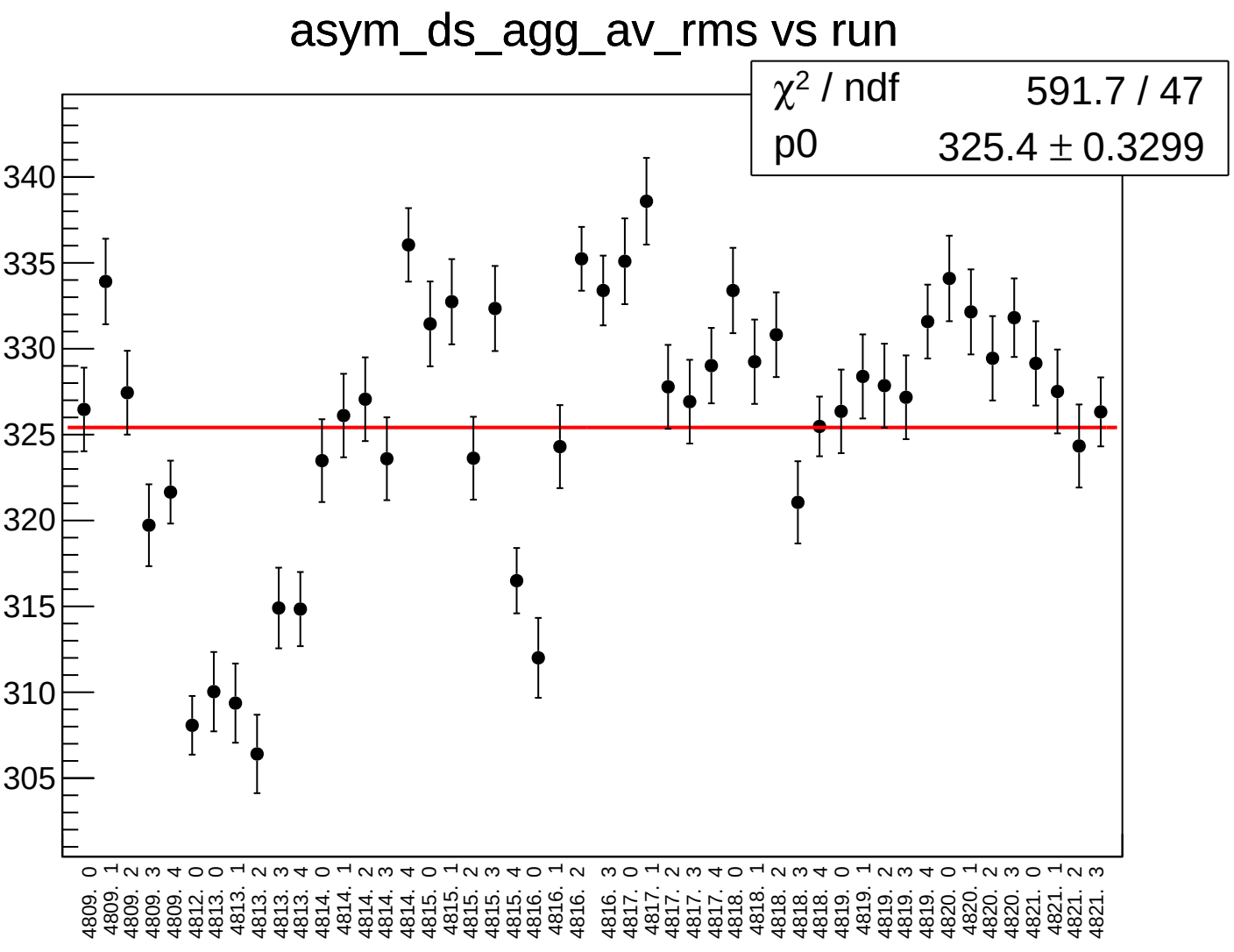

asym_us_agg_dd_mean vs run
χ² / ndf 40.47 / 47
p0 1435 ± 555.8
15000
10000
5000
0
−5000
−10000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 64.57
Std Dev 23.78
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

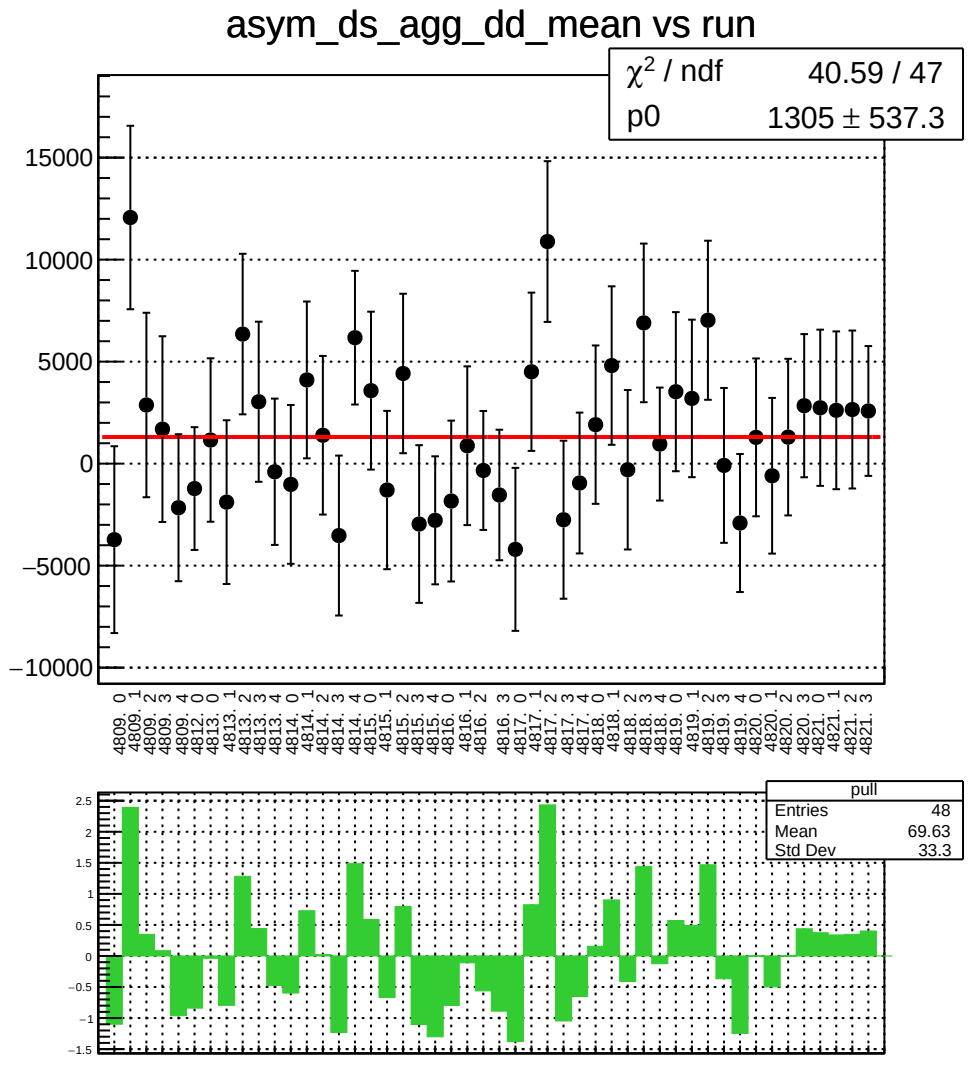

pull1D
Entries 48
Mean 0.02377
Std Dev 0.9179
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

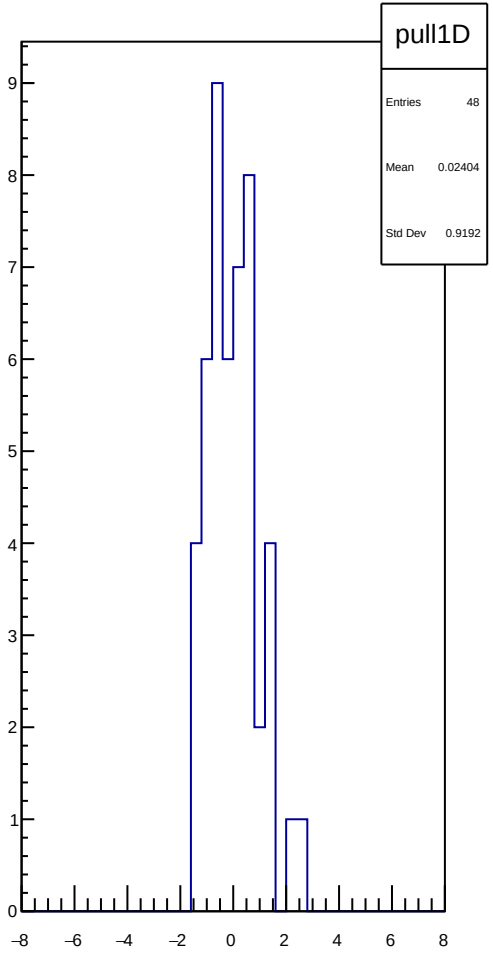

asym_us_agg_dd_rms vs run
χ² / ndf 2349 / 47
p0 387.2 ± 0.393
460
440
420
400
380
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

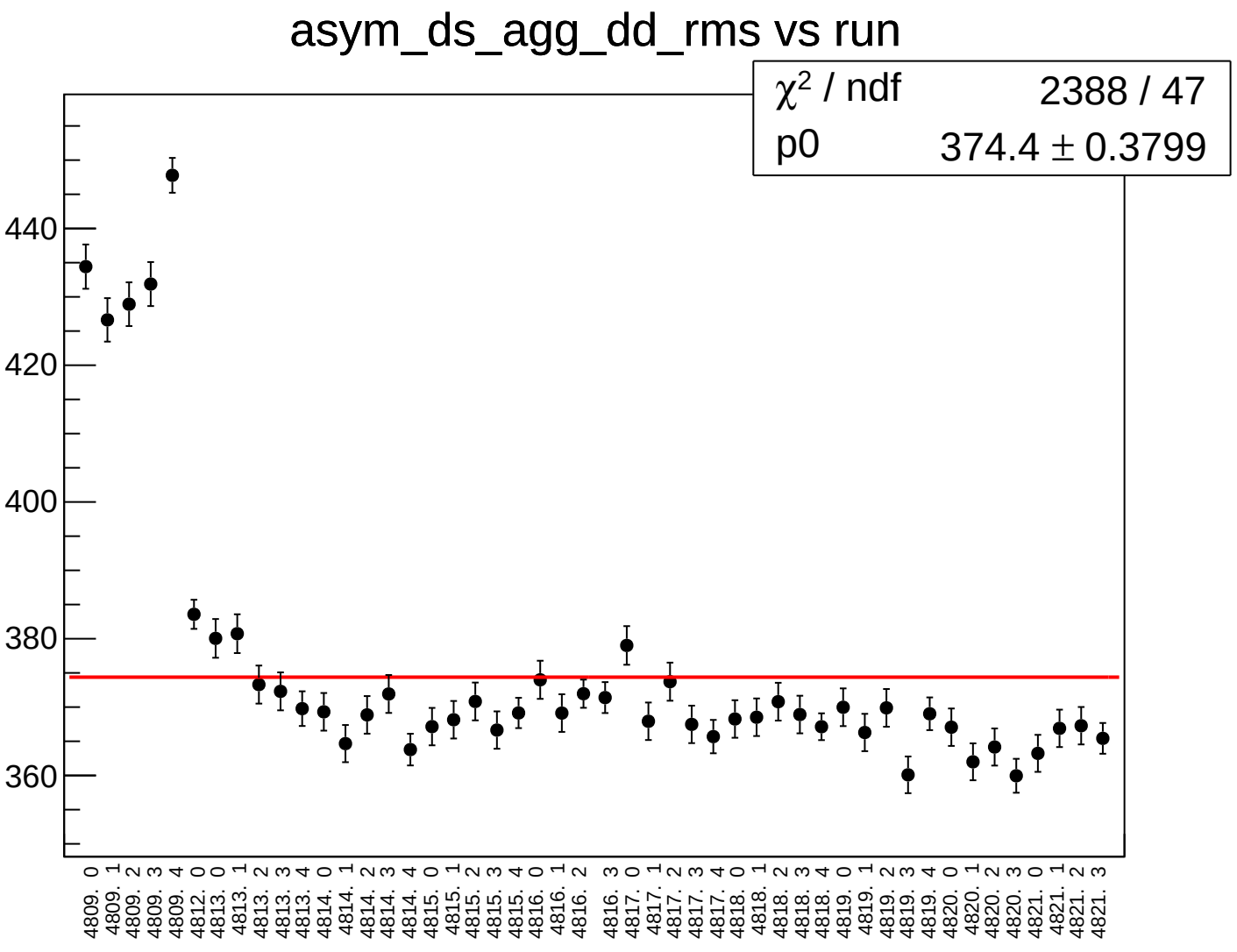

asym_ds_agg_av_mean vs run
χ² / ndf 50.92 / 47
p0 1311 ± 466.6
15000
10000
5000
0
−5000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 235.2
Std Dev 206.7
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

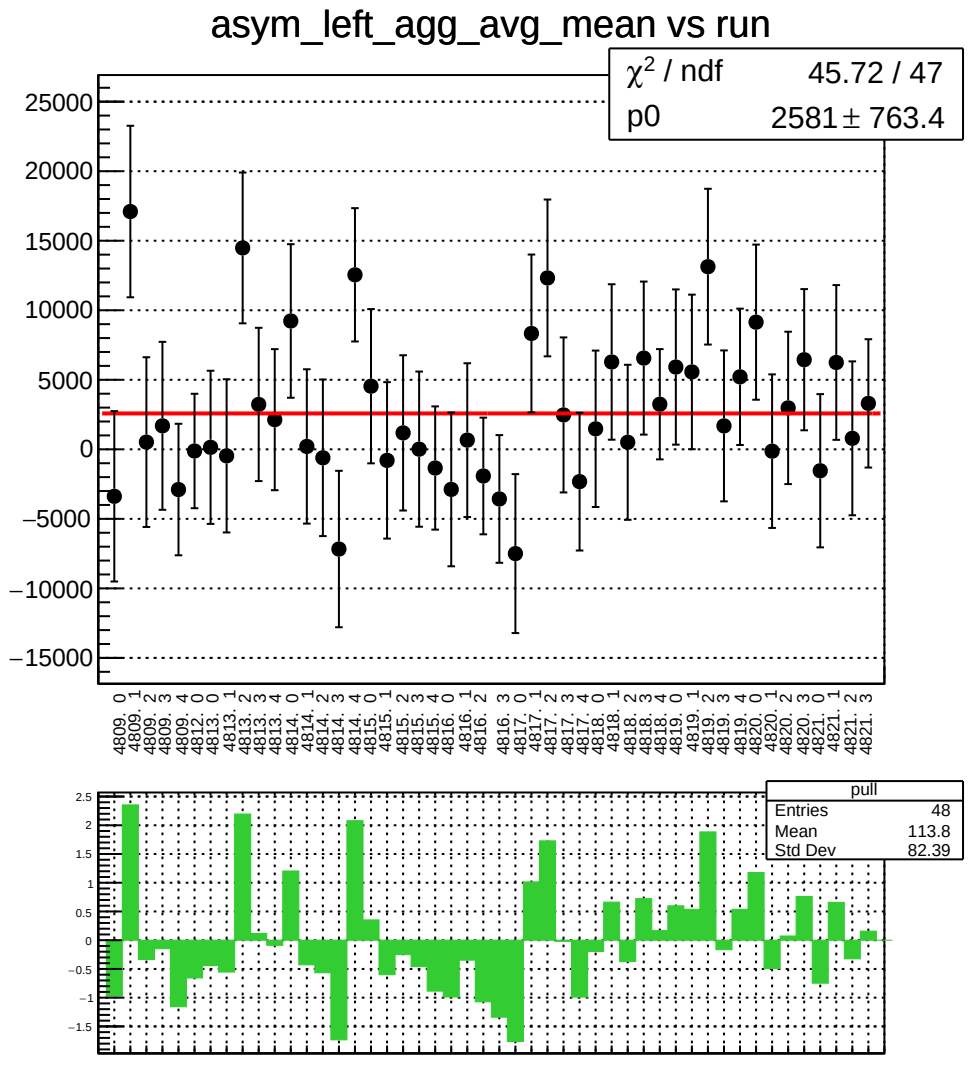

pull1D
Entries 48
Mean 0.006646
Std Dev 1.03
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

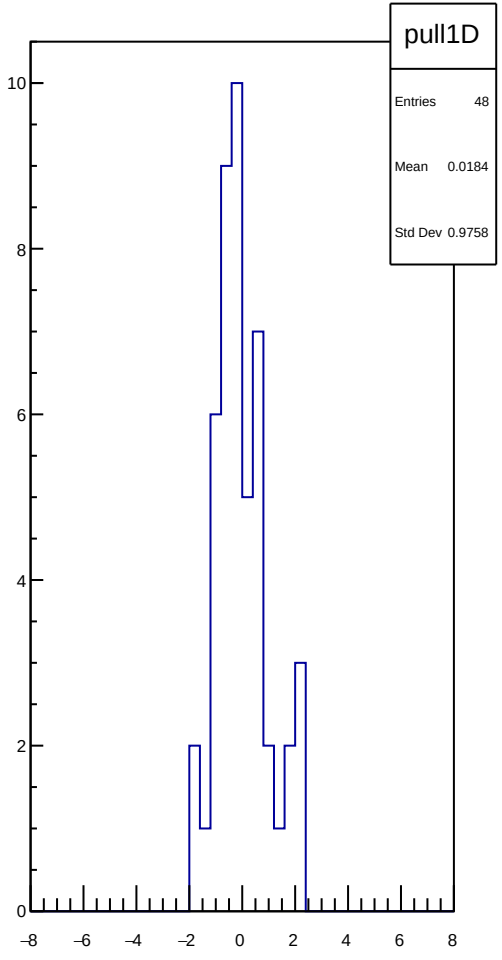

asym_ds_agg_av_rms vs run
χ² / ndf 591.7 / 47
p0 325.4 ± 0.3299
340
335
330
325
320
315
310
305
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

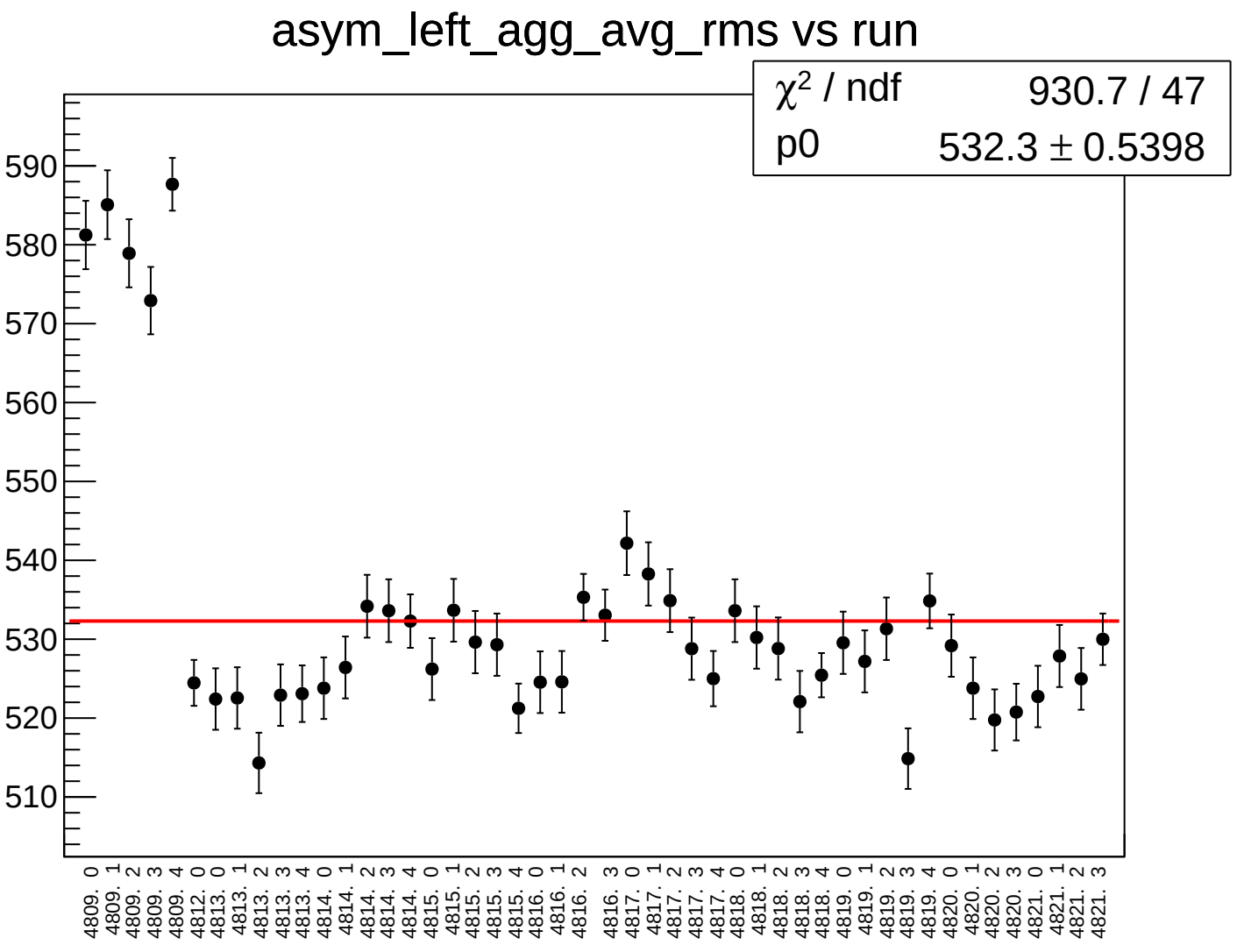

asym_ds_agg_dd_mean vs run
χ² / ndf 40.59 / 47
p0 1305 ± 537.3
15000
10000
5000
0
−5000
−10000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 69.63
Std Dev 33.3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

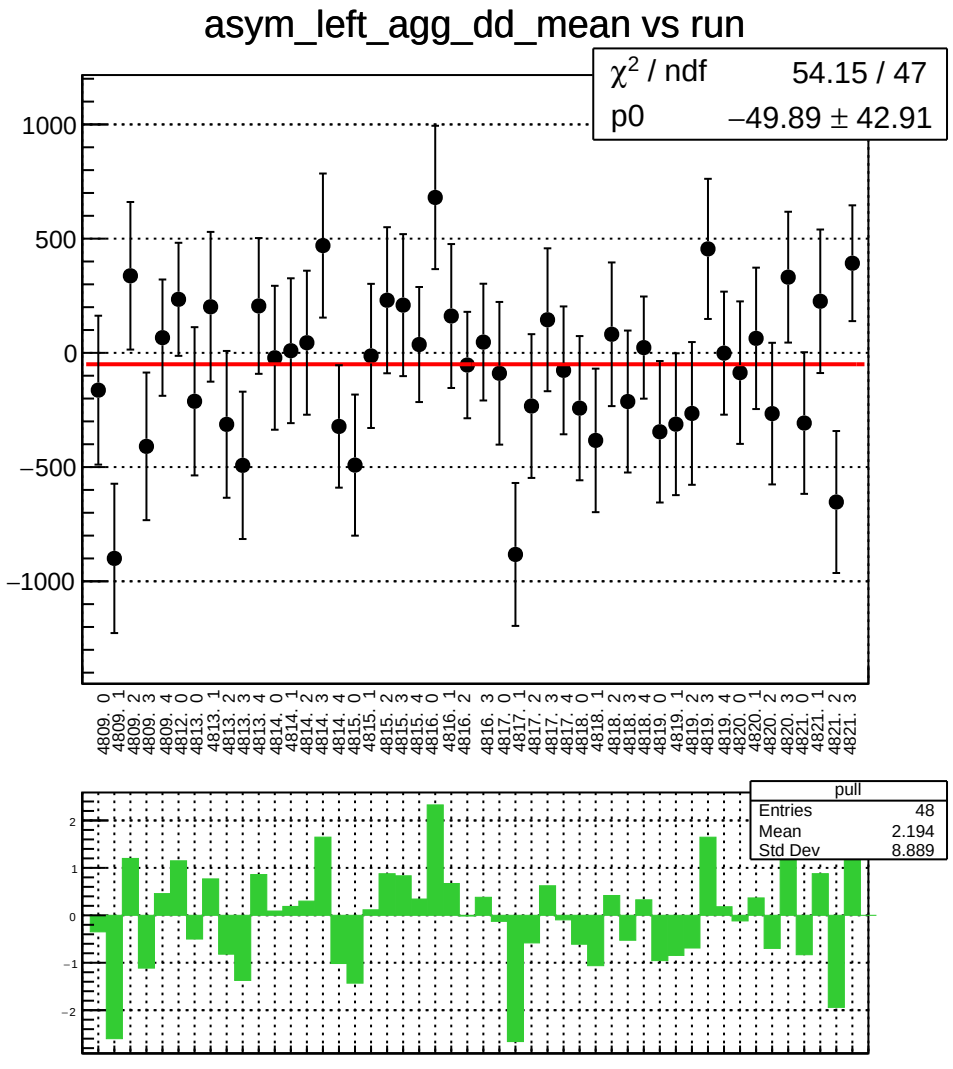

pull1D
Entries 48
Mean 0.02404
Std Dev 0.9192
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

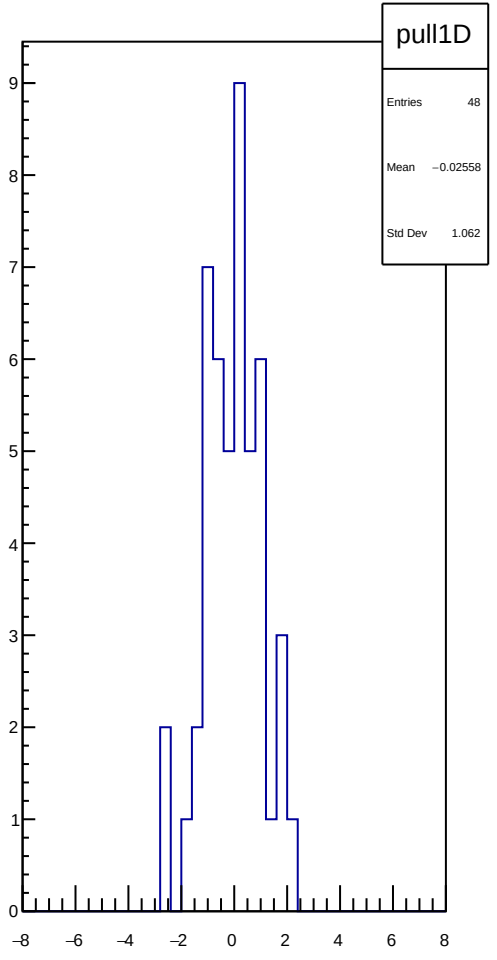

asym_ds_agg_dd_rms vs run
χ² / ndf 2388 / 47
p0 374.4 ± 0.3799
440
420
400
380
360
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

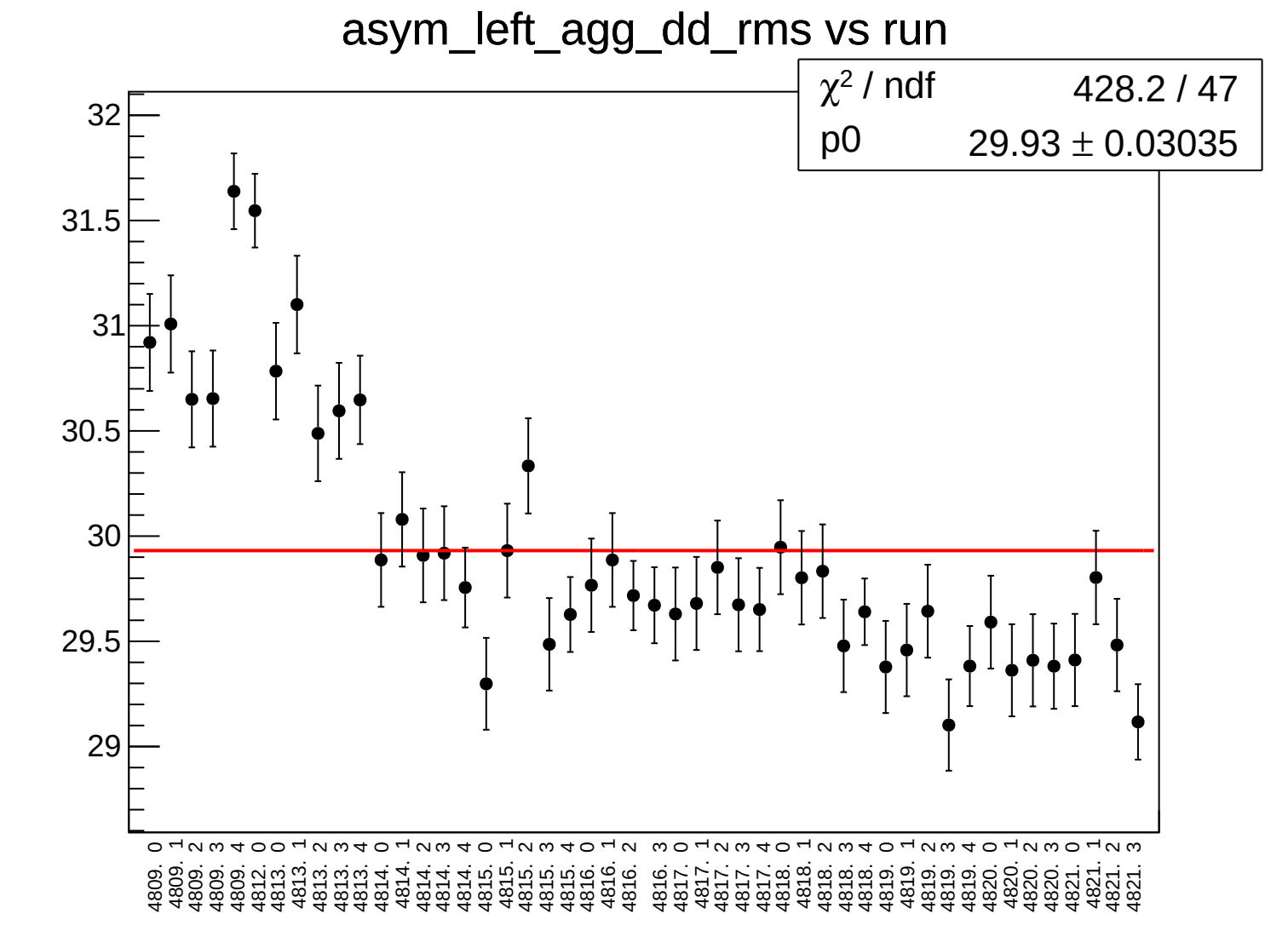

asym_left_agg_avg_mean vs run
χ² / ndf 45.72 / 47
p0 2581 ± 763.4
pull
Entries 48
Mean 113.8
Std Dev 82.39

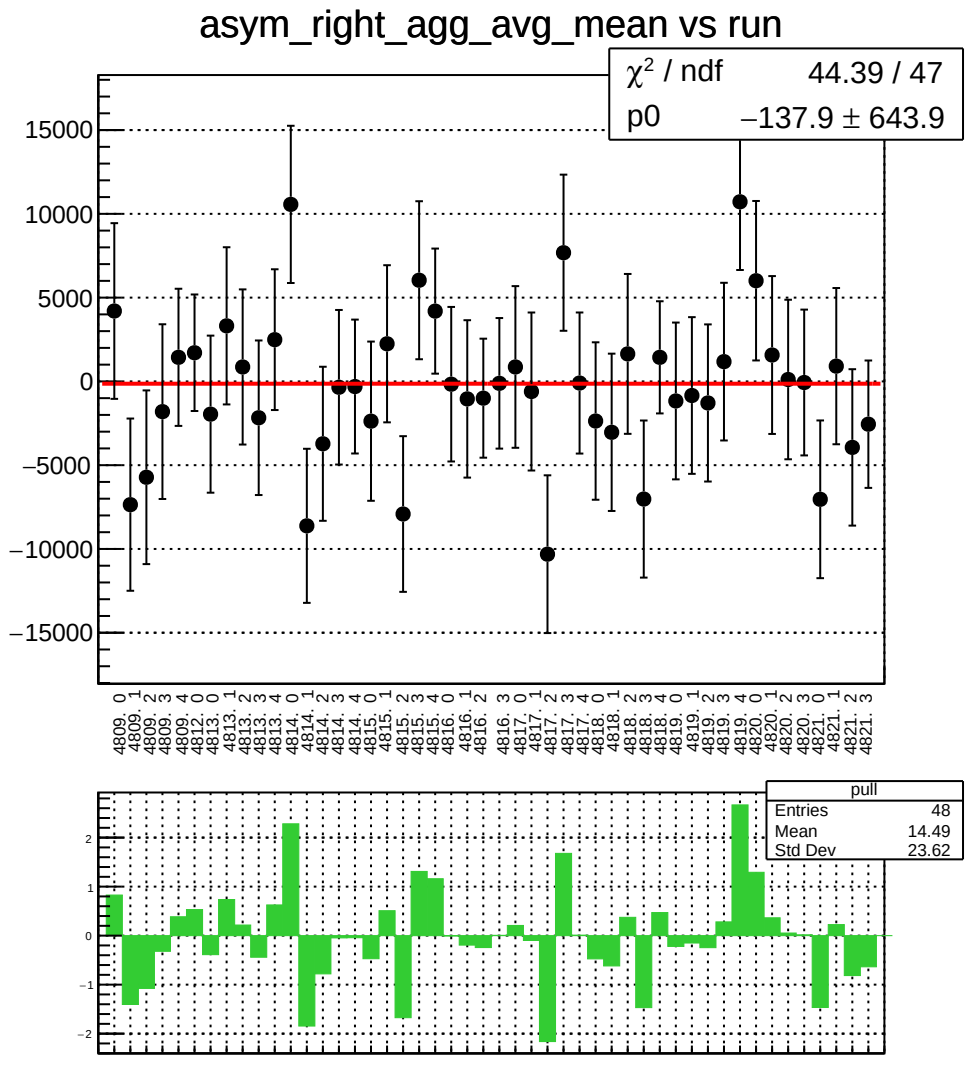

pull1D
Entries 48
Mean 0.0184
Std Dev 0.9758

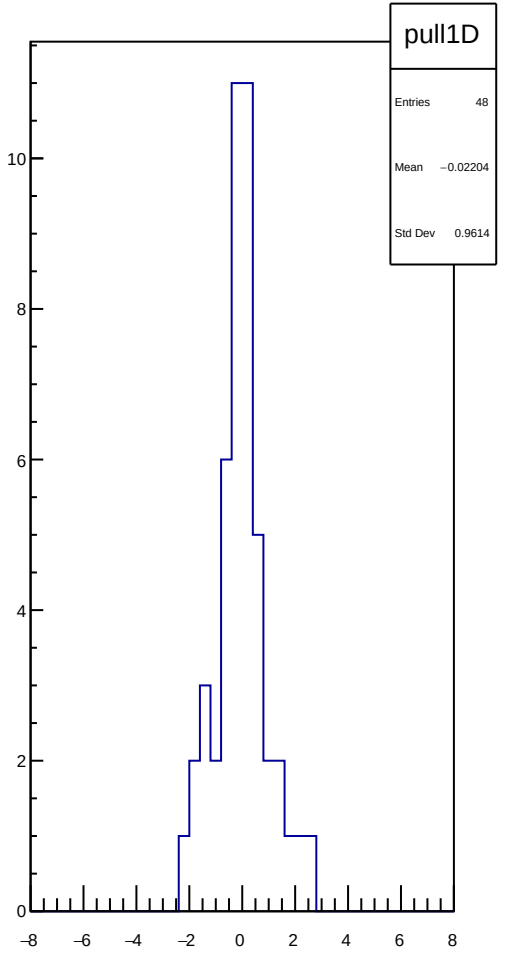

asym_left_agg_avg_rms vs run
χ² / ndf 930.7 / 47
p0 532.3 ± 0.5398
590
580
570
560
550
540
530
520
510
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

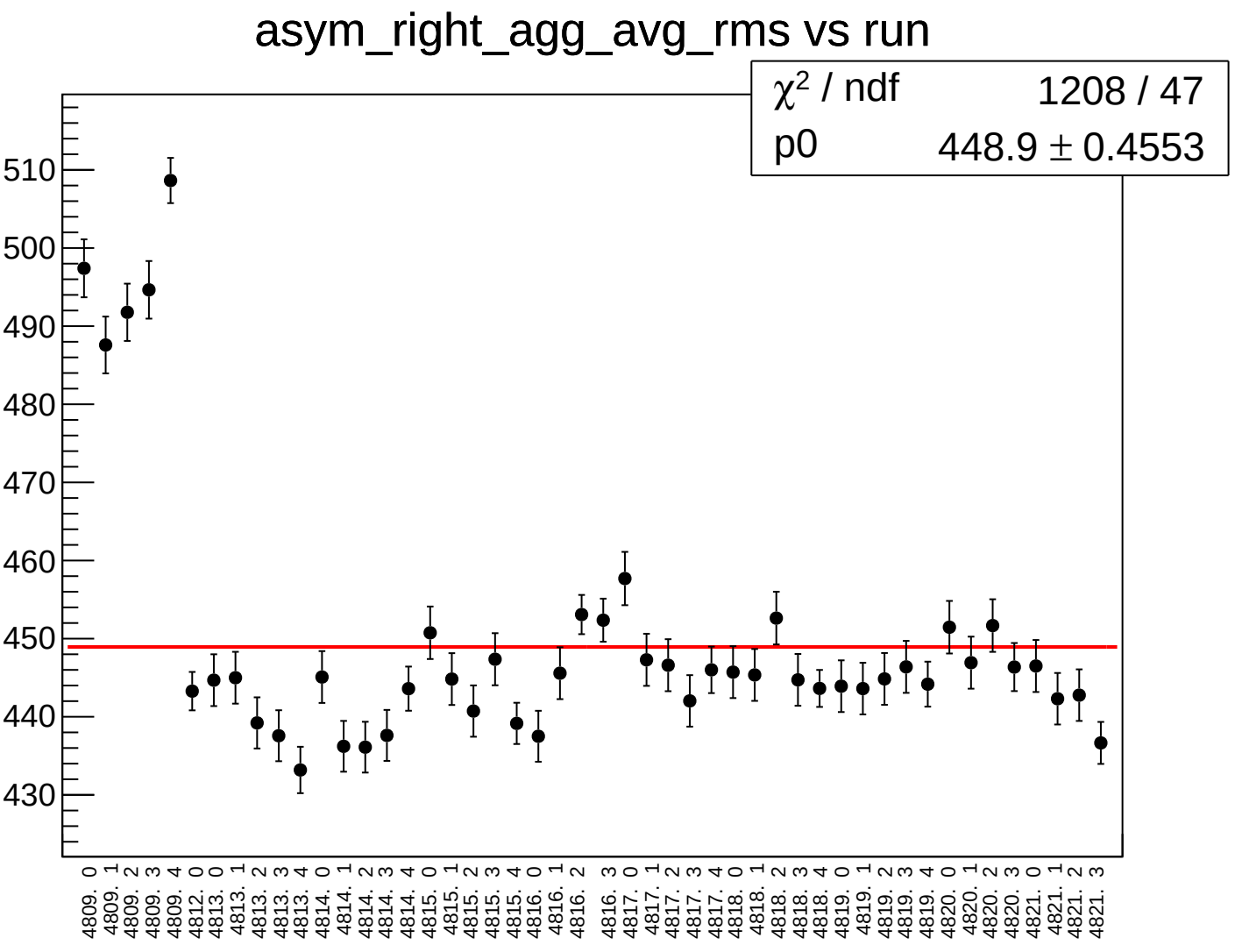

asym_left_agg_dd_mean vs run
χ² / ndf 54.15 / 47
p0 −49.89 ± 42.91
1000
500
0
−500
−1000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 2.194
Std Dev 8.889
2
1
0
−1
−2

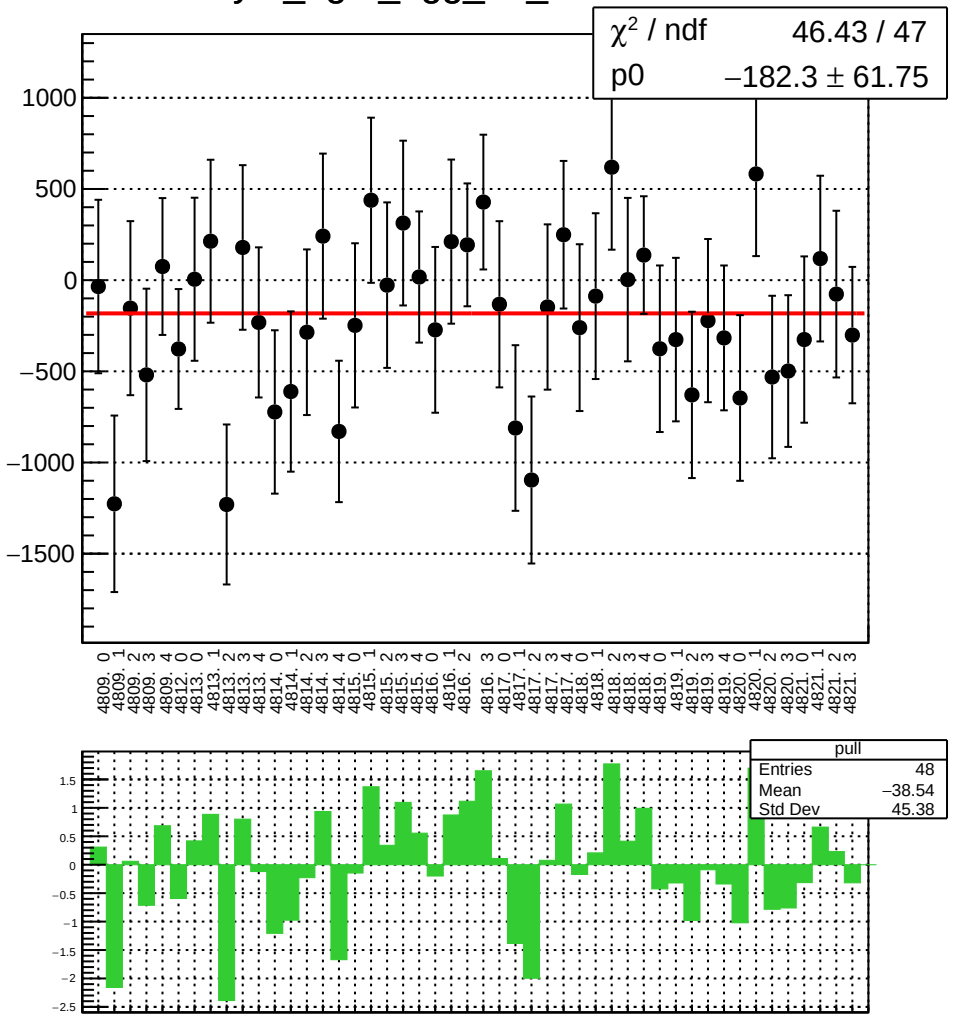

pull1D
Entries 48
Mean −0.02558
Std Dev 1.062
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

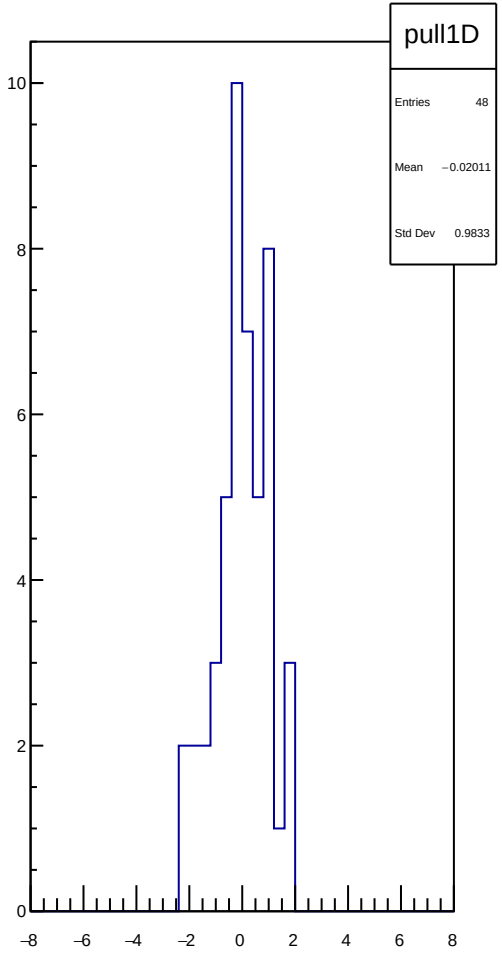

asym_left_agg_dd_rms vs run
χ² / ndf 428.2 / 47
p0 29.93 ± 0.03035
32
31.5
31
30.5
30
29.5
29
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

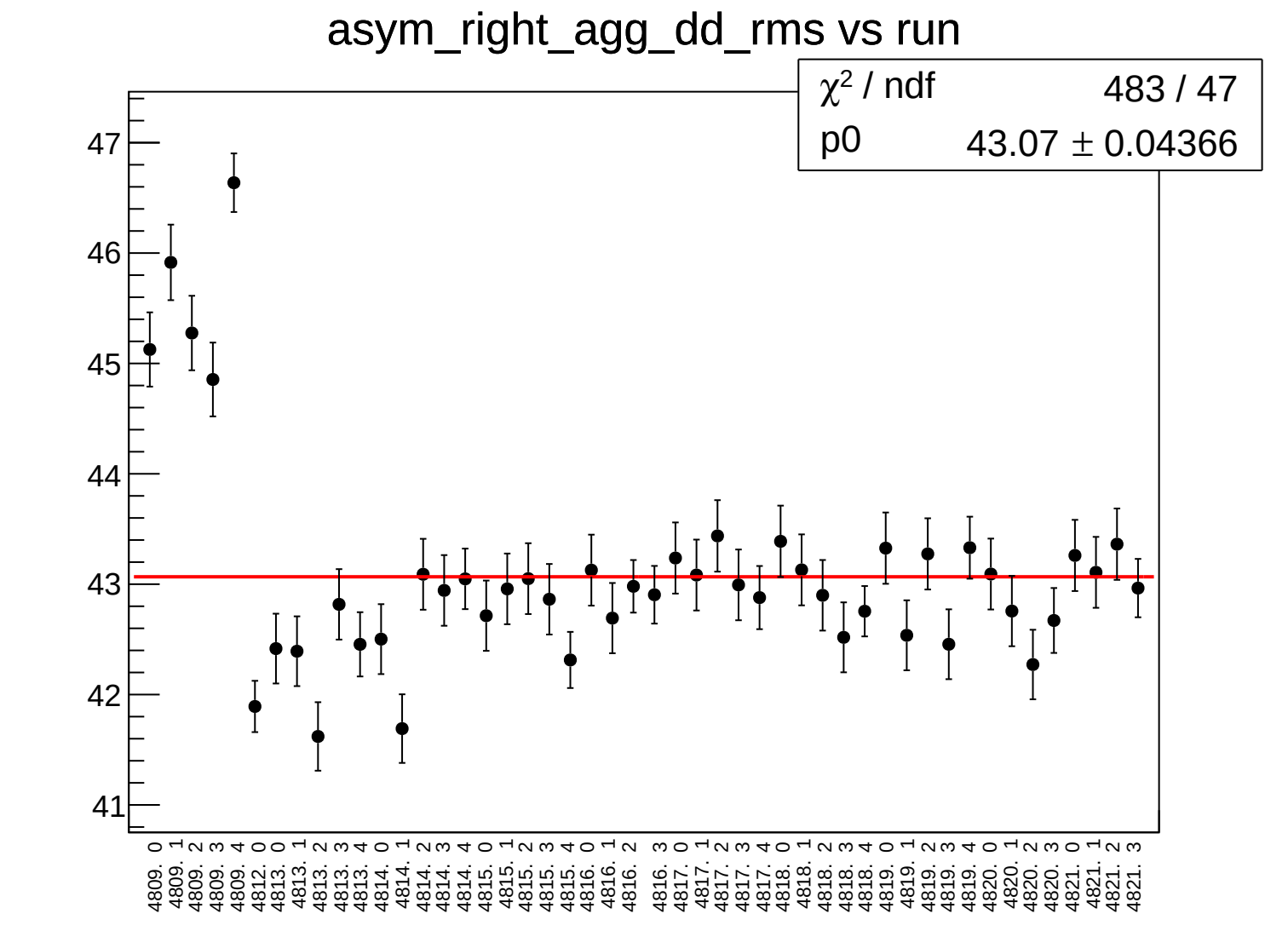

asym_right_agg_avg_mean vs run
χ² / ndf 44.39 / 47
p0 −137.9 ± 643.9
15000
10000
5000
0
−5000
−10000
−15000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 14.49
Std Dev 23.62
2
1
0
−1
−2


pull1D
Entries 48
Mean −0.02204
Std Dev 0.9614
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_right_agg_avg_rms vs run
χ² / ndf 1208 / 47
p0 448.9 ± 0.4553
510
500
490
480
470
460
450
440
430
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3


asym_right_agg_dd_mean vs run
χ² / ndf 46.43 / 47
p0 −182.3 ± 61.75
1000
500
0
−500
−1000
−1500
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean −38.54
Std Dev 45.38
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 48
Mean −0.02011
Std Dev 0.9833
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_right_agg_dd_rms vs run
χ² / ndf 483 / 47
p0 43.07 ± 0.04366
47
46
45
44
43
42
41
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
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4820. 0
4820. 1
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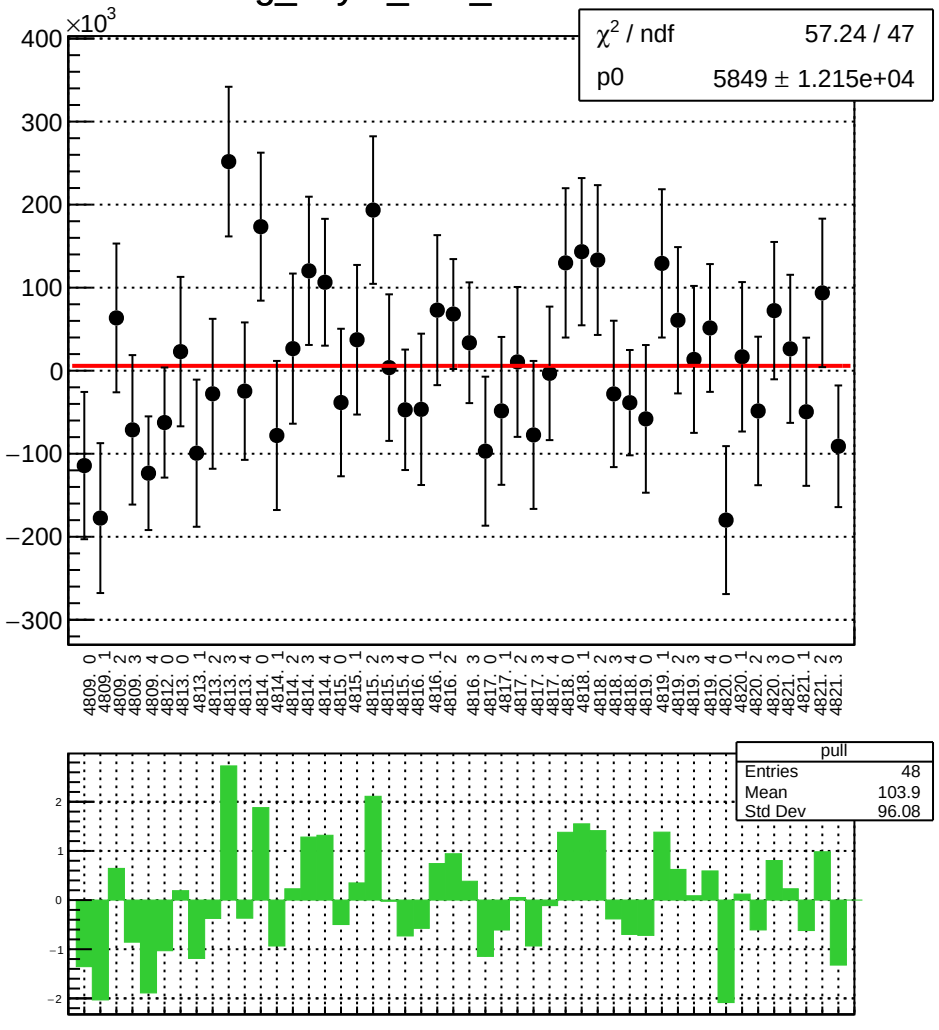
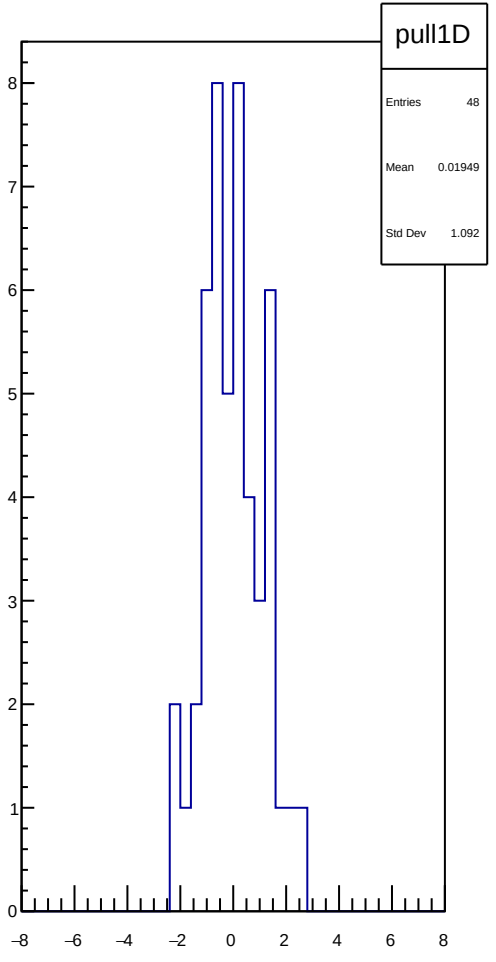
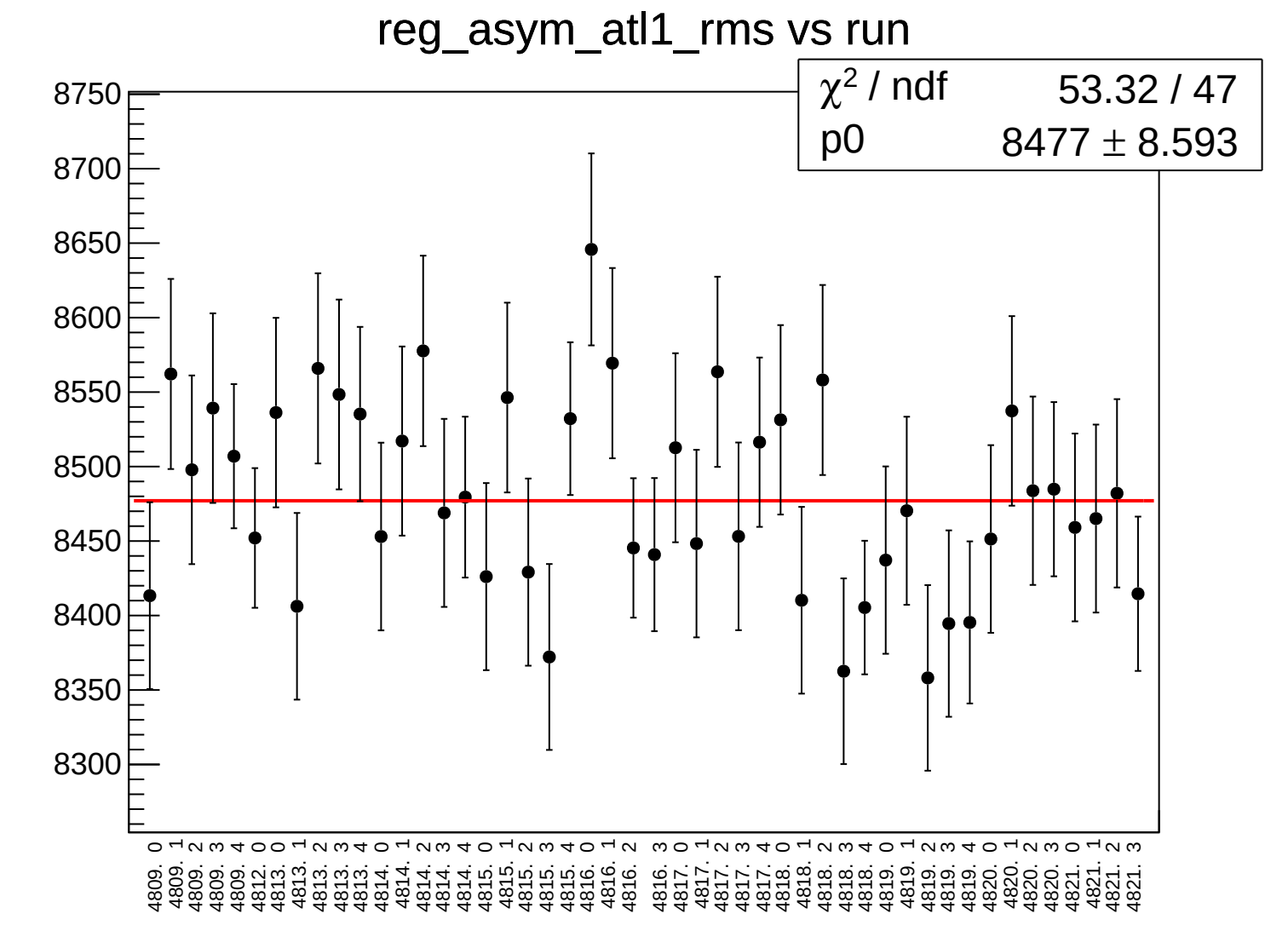
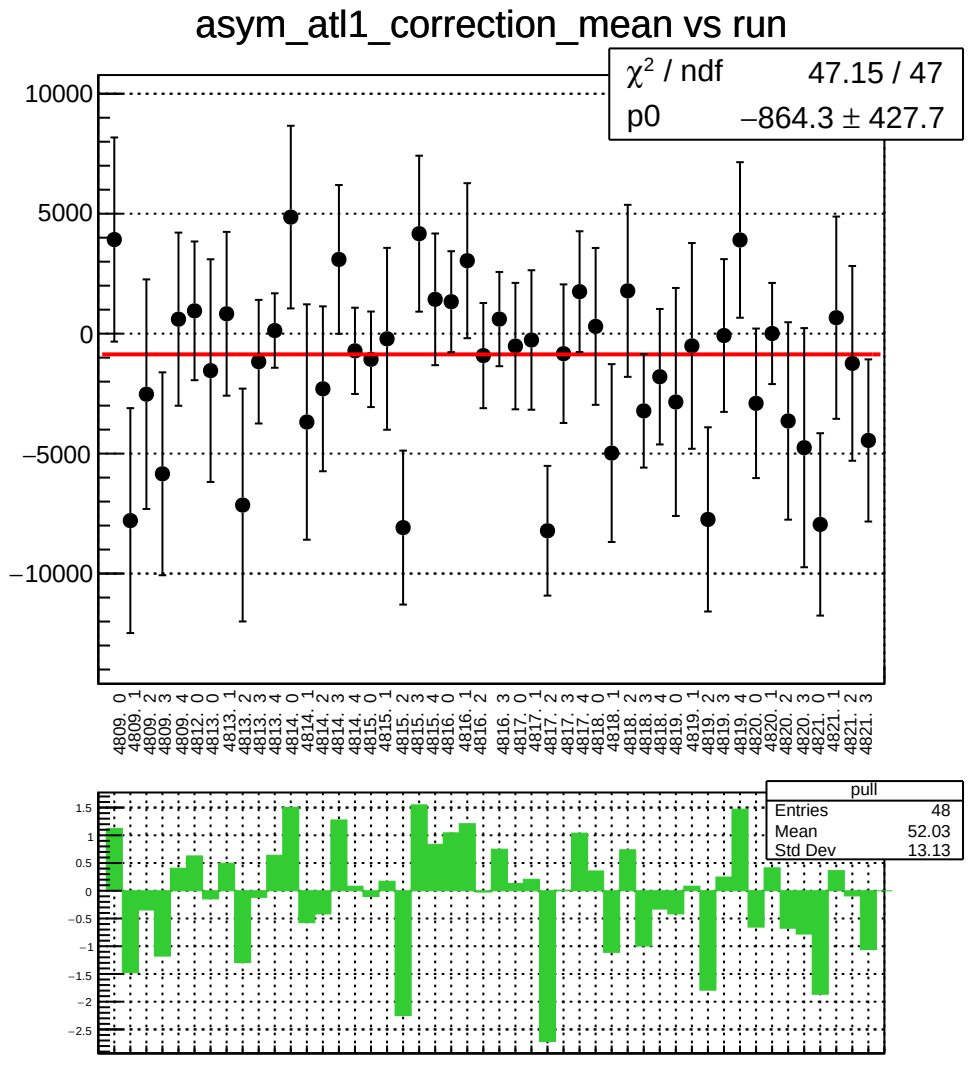
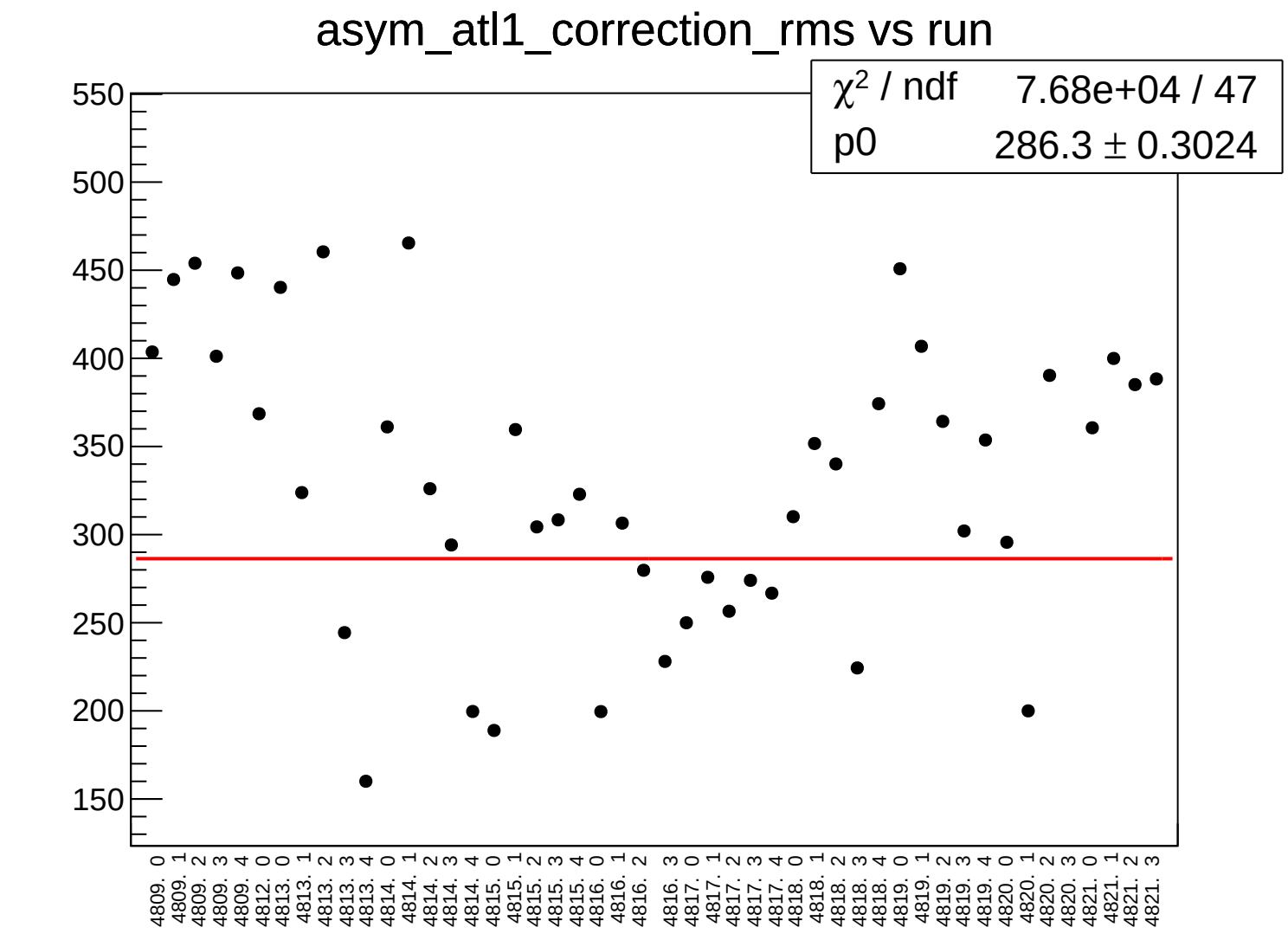
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

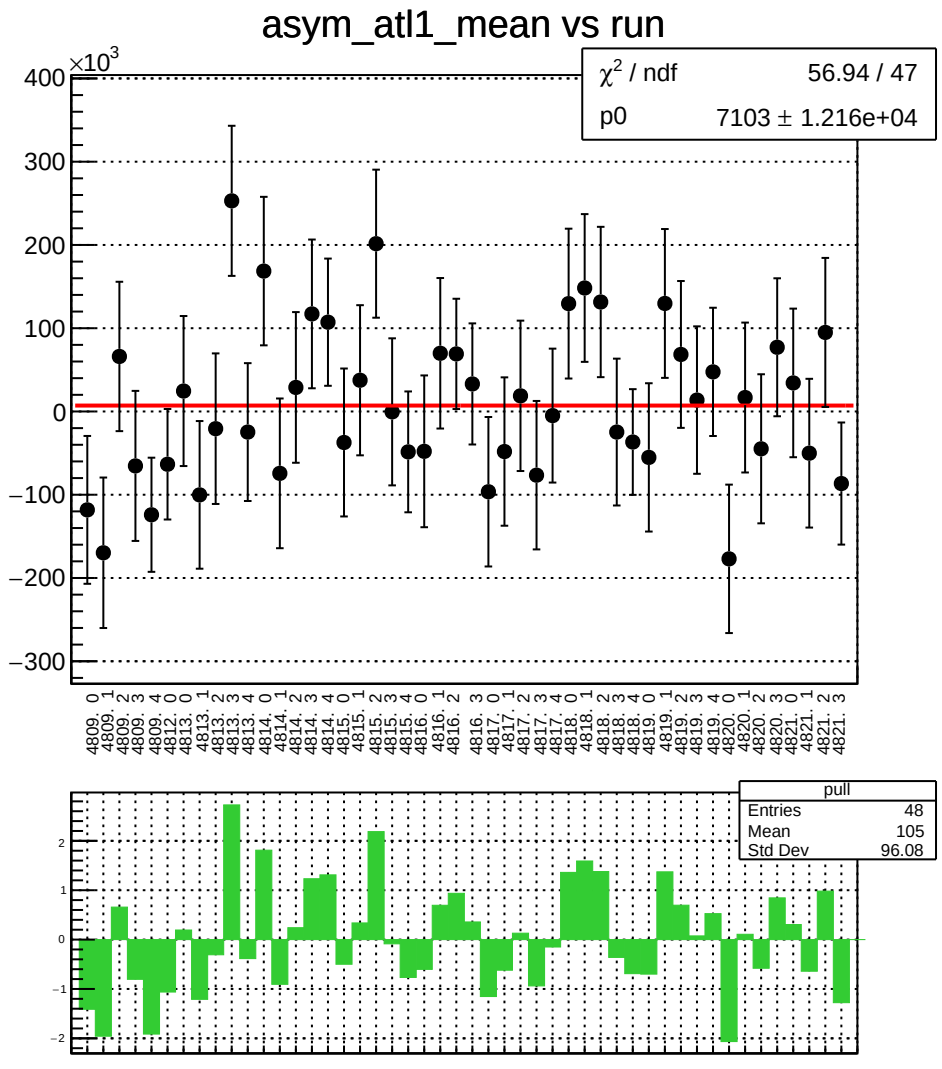

reg_asym_atl1_mean vs run
×10^3
χ² / ndf 57.24 / 47
p0 5849 ± 1.215e+04
pull
Entries 48
Mean 103.9
Std Dev 96.08

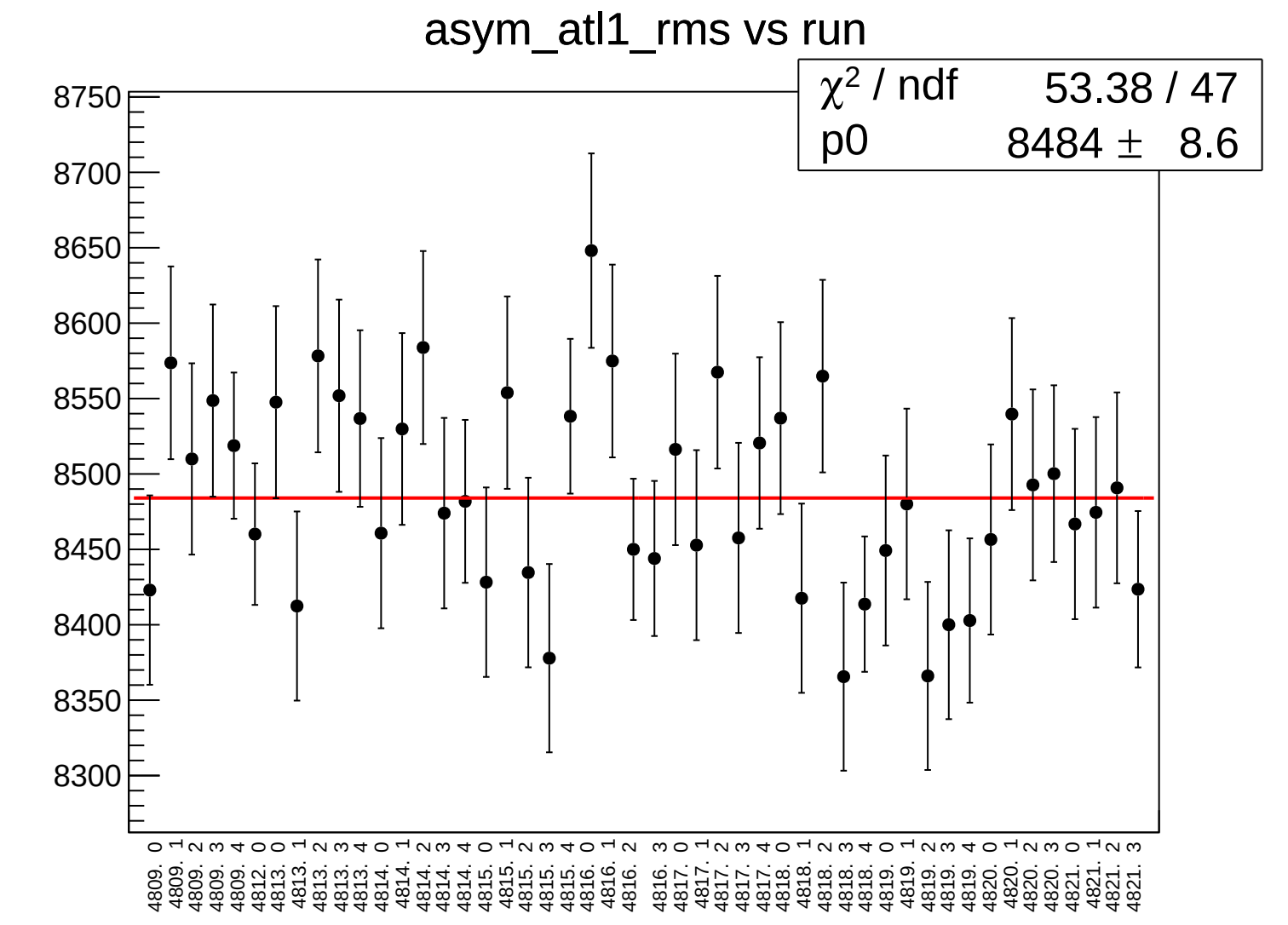

pull1D
Entries 48
Mean 0.01949
Std Dev 1.092

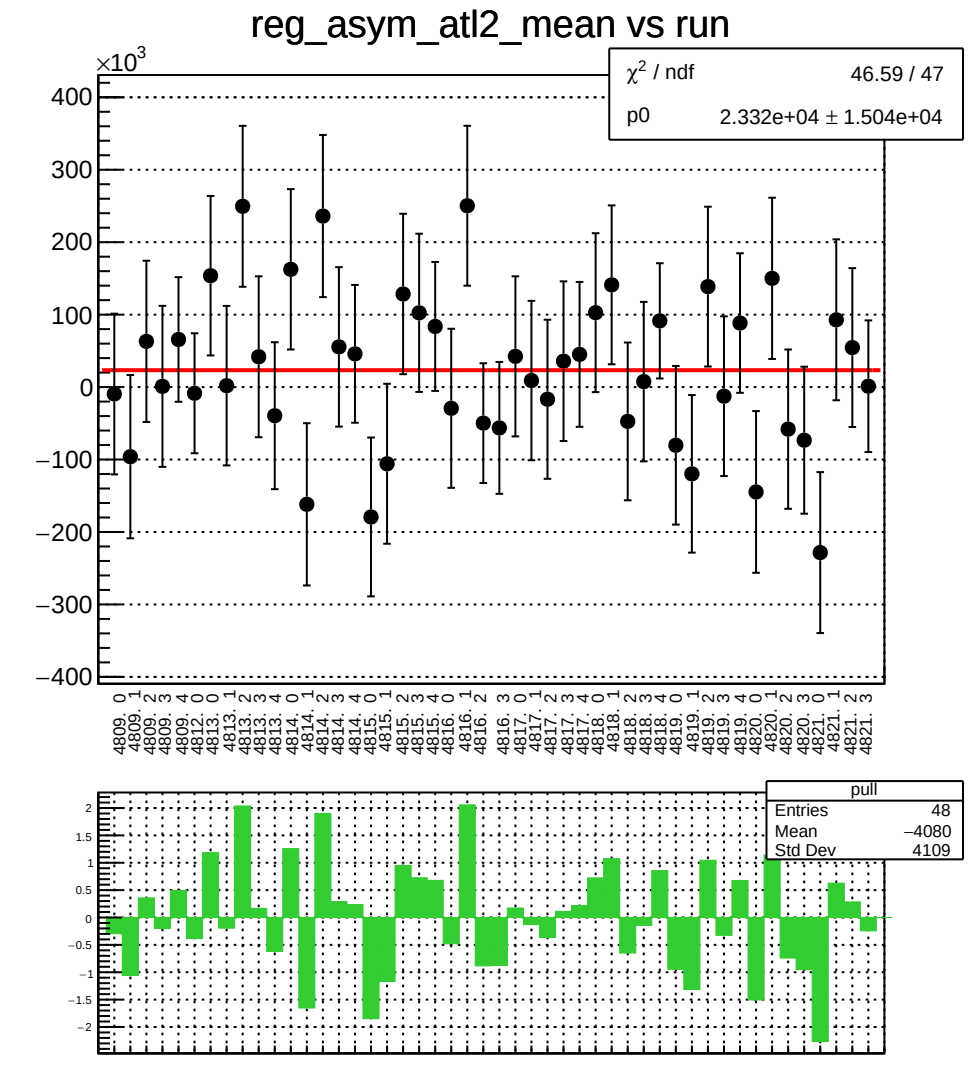

reg_asym_atl1_rms vs run
χ² / ndf 53.32 / 47
p0 8477 ± 8.593
8750
8700
8650
8600
8550
8500
8450
8400
8350
8300
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

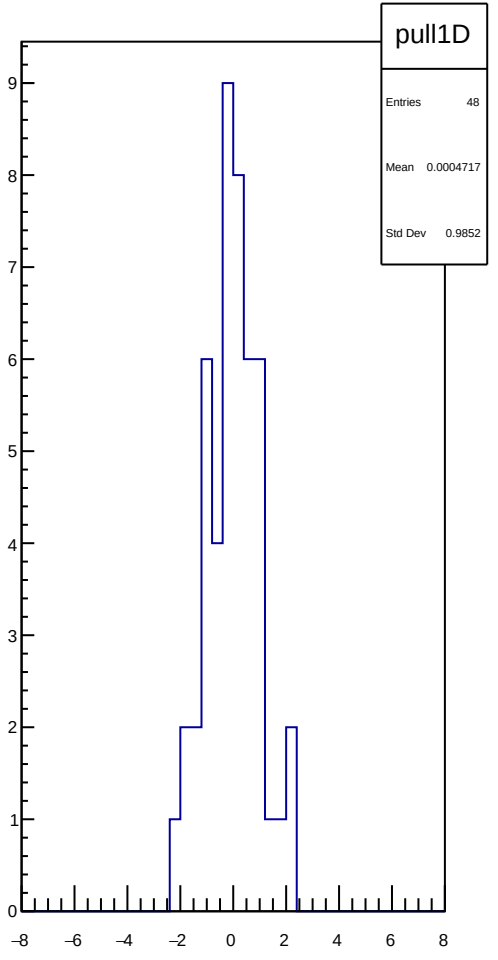

asym_atl1_correction_mean vs run
χ² / ndf 47.15 / 47
p0 −864.3 ± 427.7
10000
5000
0
−5000
−10000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 52.03
Std Dev 13.13
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 48
Mean −0.07593
Std Dev 0.9882
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

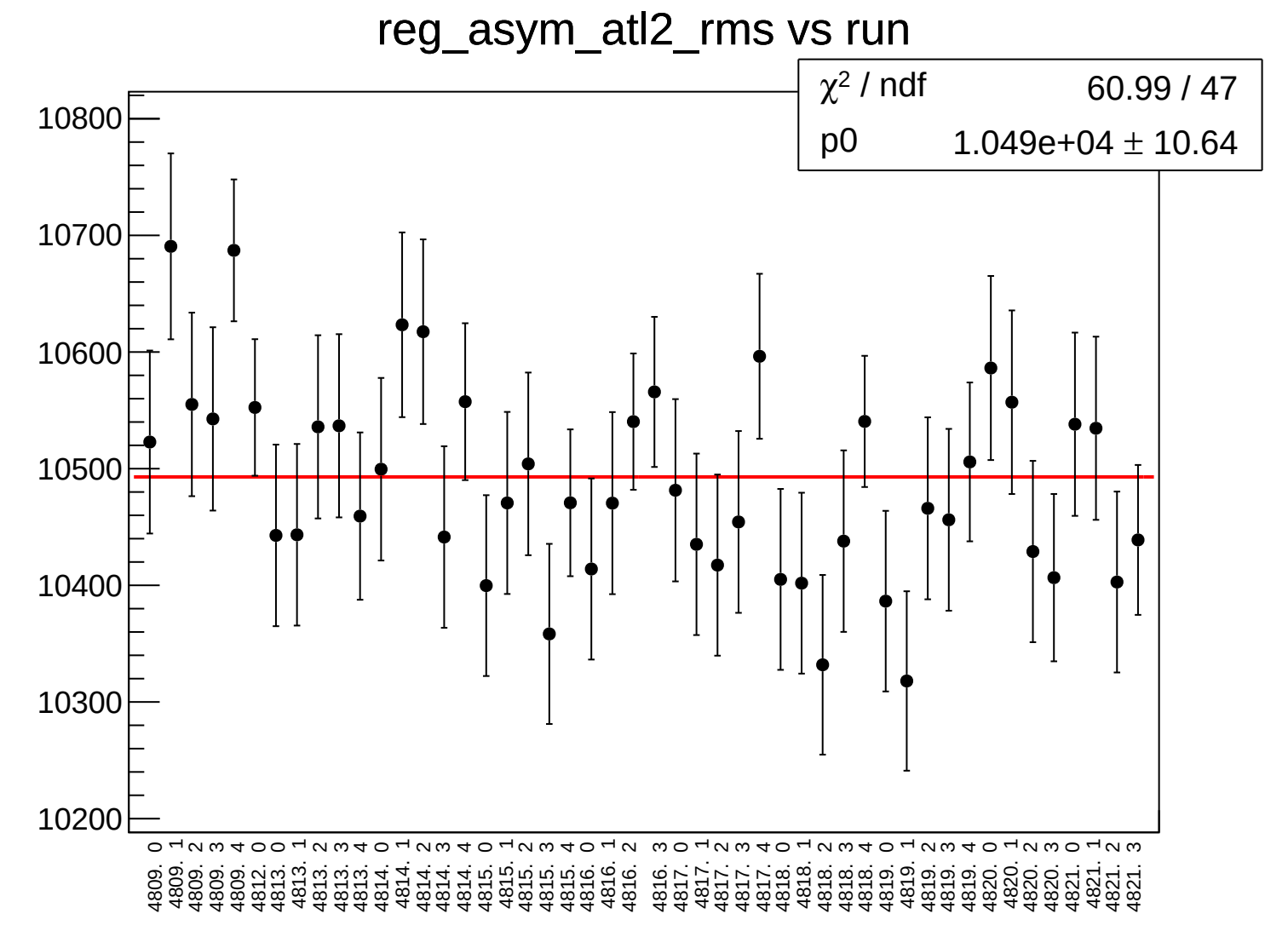

asym_atl1_correction_rms vs run
χ^2 / ndf 7.68e+04 / 47
p0 286.3 ± 0.3024
550
500
450
400
350
300
250
200
150
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

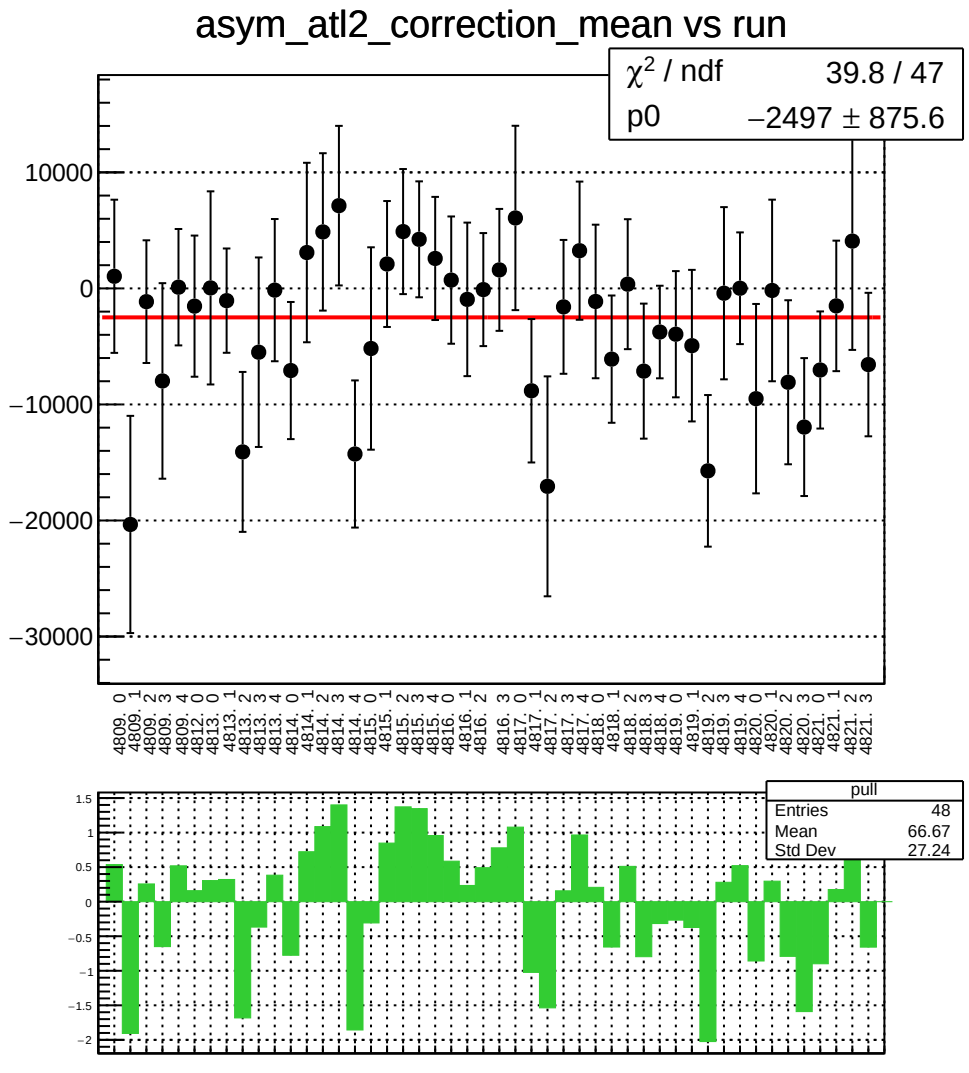

asym_atl1_mean vs run
×10^3
400
300
200
100
0
−100
−200
−300
χ² / ndf 56.94 / 47
p0 7103 ± 1.216e+04
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 105
Std Dev 96.08
2
1
0
−1
−2
pull1D
Entries 48
Mean 0.02016
Std Dev 1.089
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

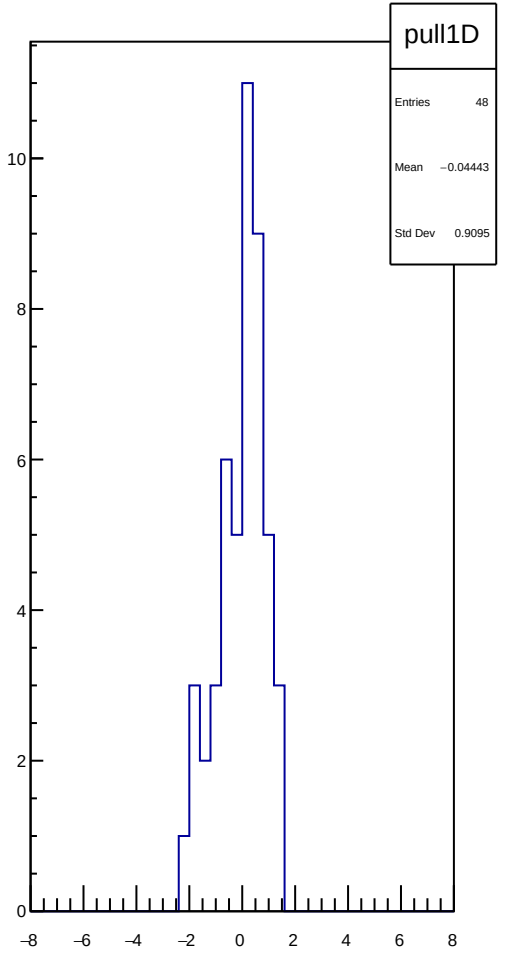

asym_atl1_rms vs run
χ² / ndf 53.38 / 47
p0 8484 ± 8.6
8750
8700
8650
8600
8550
8500
8450
8400
8350
8300
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

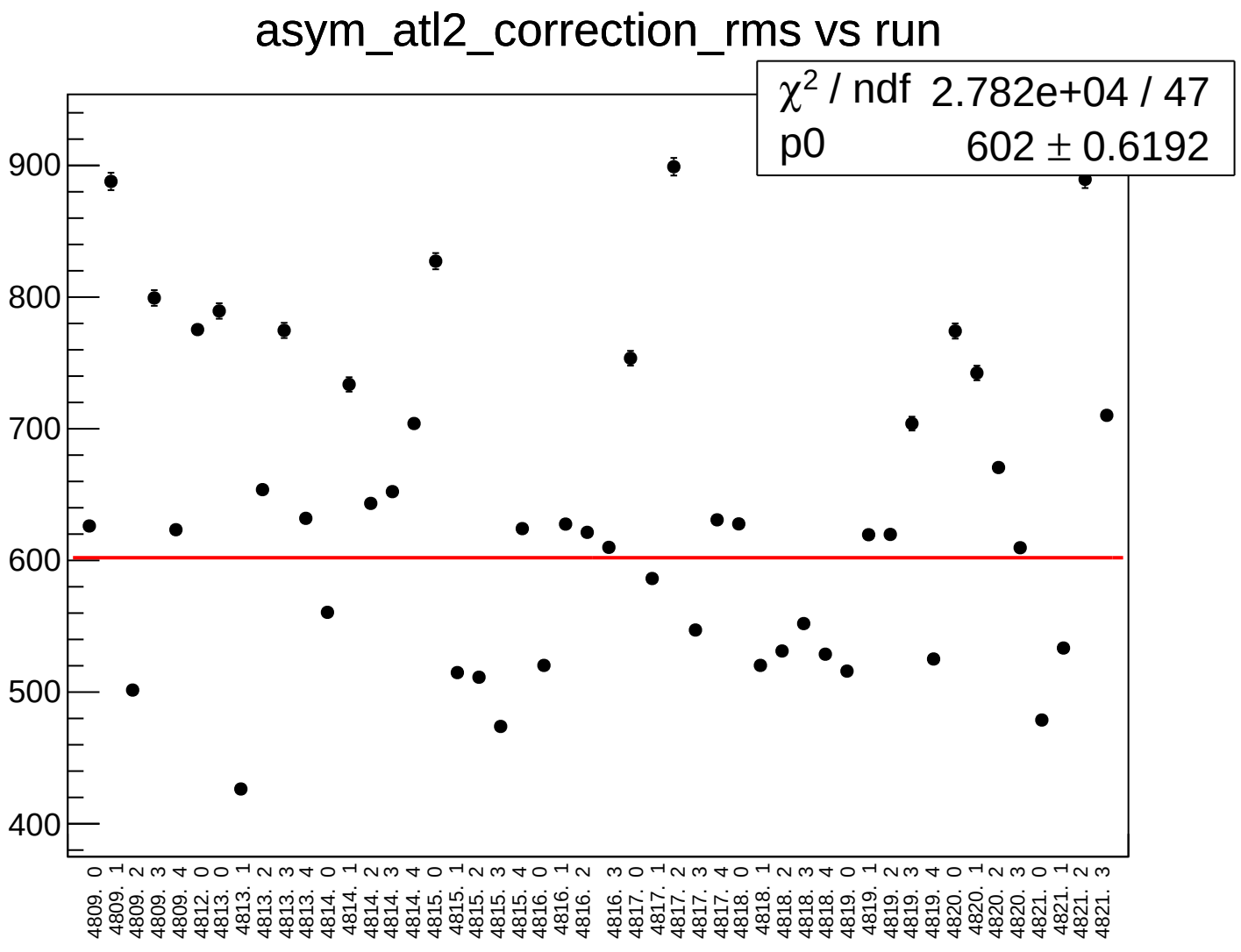

reg_asym_atl2_mean vs run
×10^3
χ² / ndf 46.59 / 47
p0 2.332e+04 ± 1.504e+04
400
300
200
100
0
−100
−200
−300
−400
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean −4080
Std Dev 4109
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

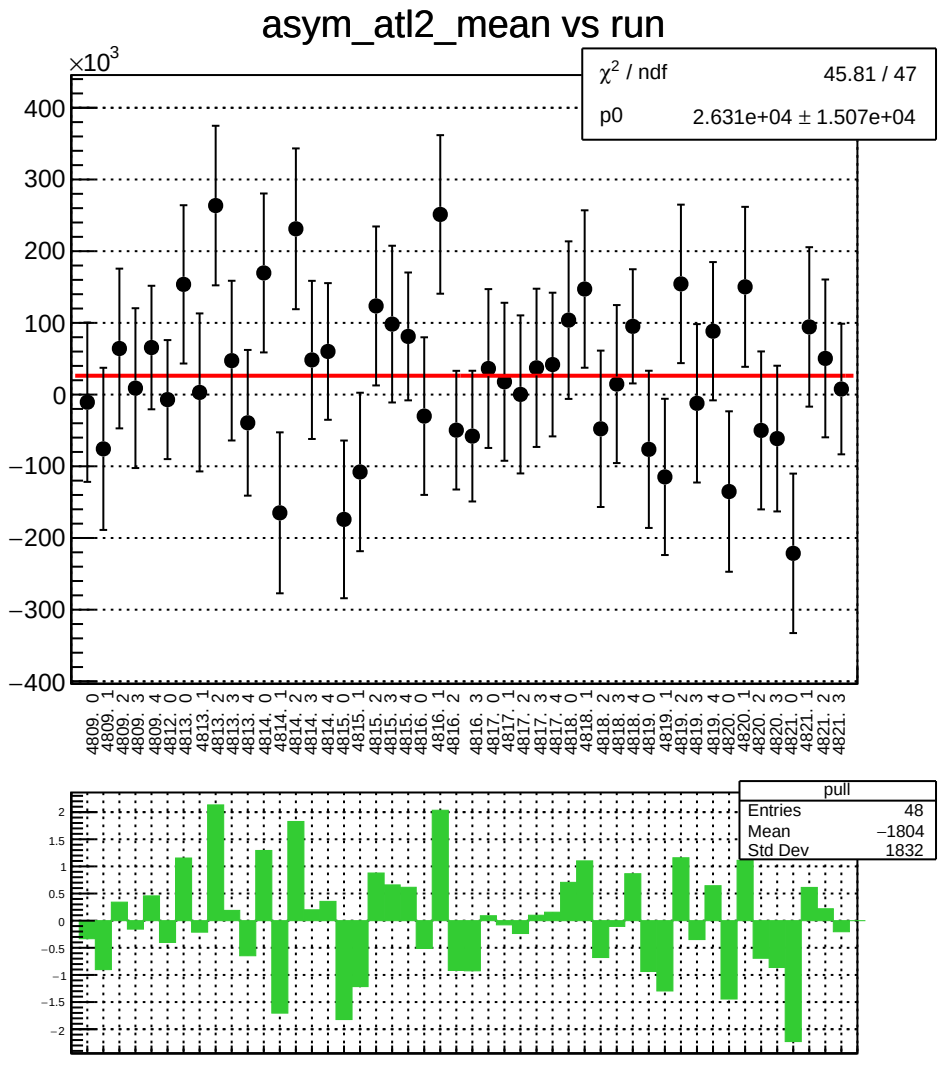

pull1D
Entries 48
Mean 0.0004717
Std Dev 0.9852
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

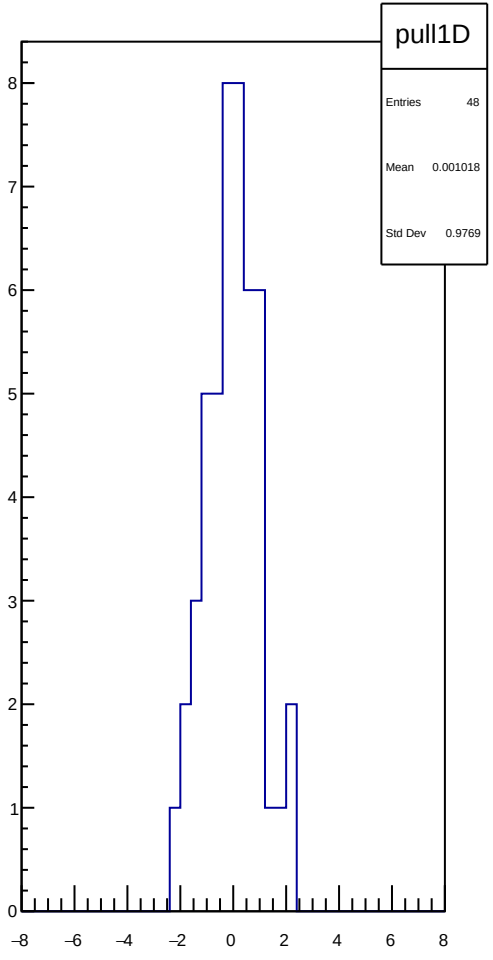

reg_asym_atl2_rms vs run
χ² / ndf 60.99 / 47
p0 1.049e+04 ± 10.64
10800
10700
10600
10500
10400
10300
10200
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

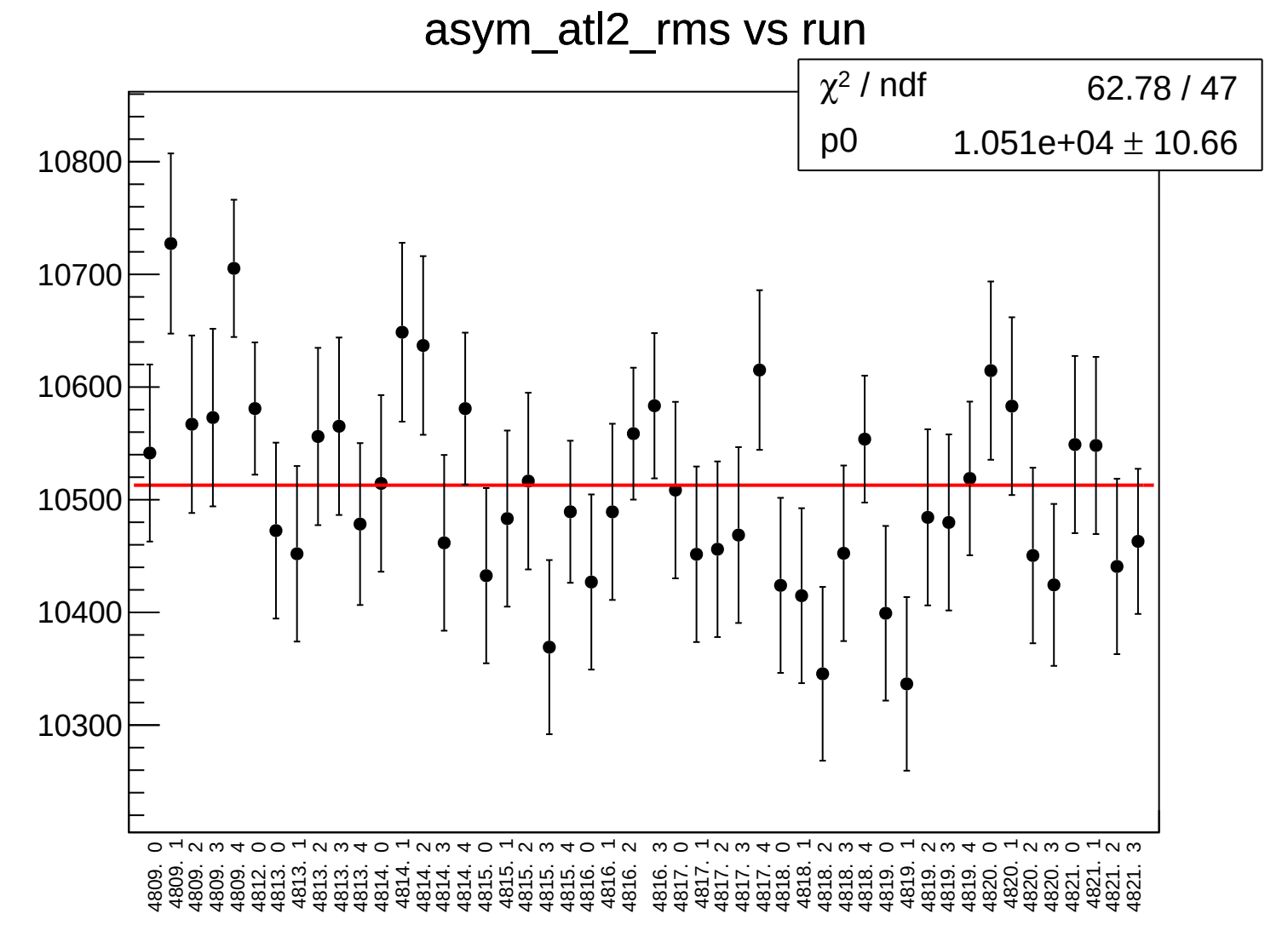

asym_atl2_correction_mean vs run
χ² / ndf 39.8 / 47
p0 −2497 ± 875.6
10000
0
−10000
−20000
−30000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 66.67
Std Dev 27.24
1.5
1
0.5
0
−0.5
−1
−1.5
−2

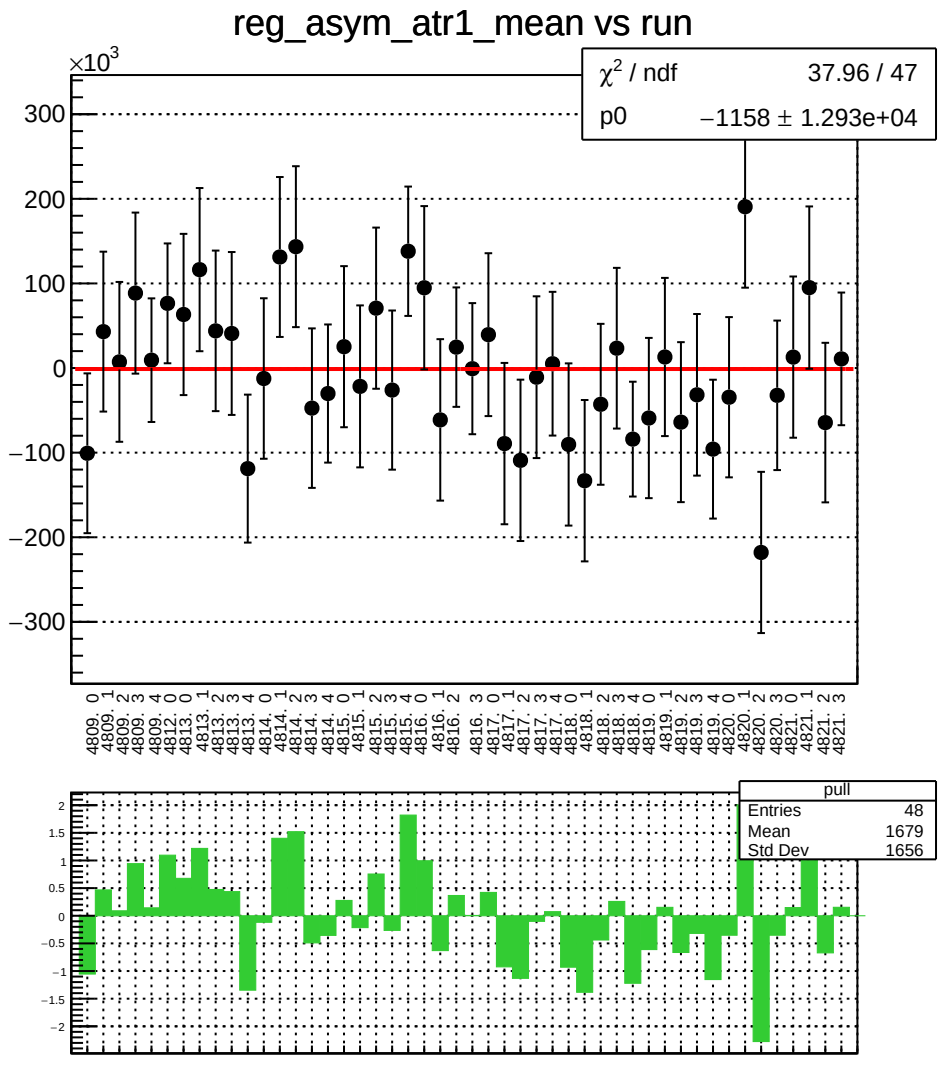

pull1D
Entries 48
Mean −0.04443
Std Dev 0.9095
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

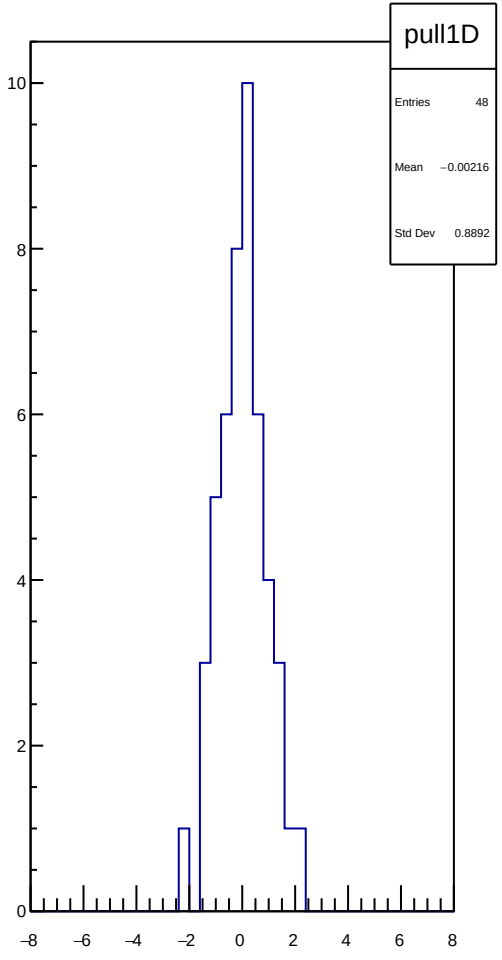

asym_atl2_correction_rms vs run
χ² / ndf 2.782e+04 / 47
p0 602 ± 0.6192
900
800
700
600
500
400
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

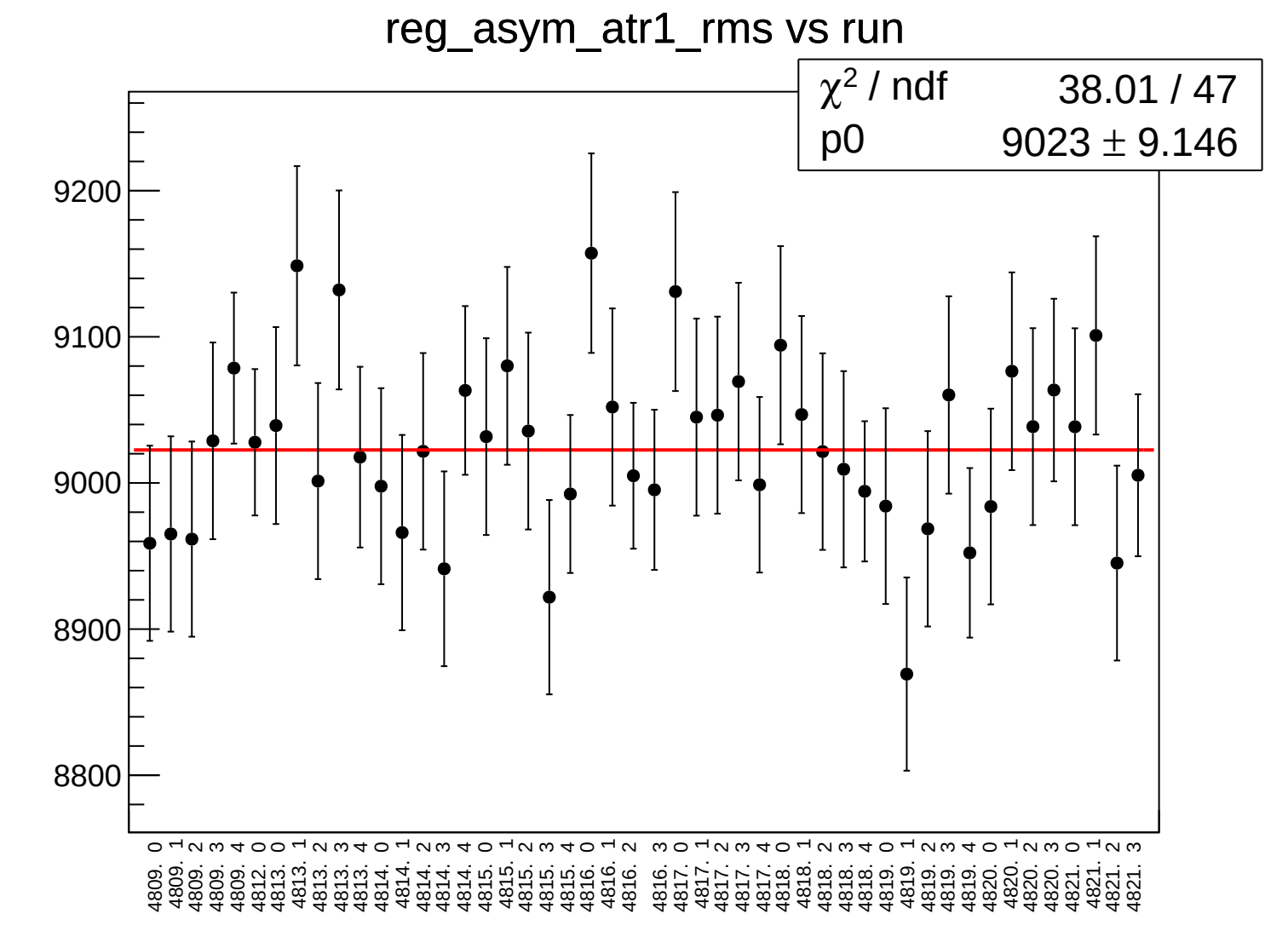

asym_atl2_mean vs run
×10^3
χ² / ndf 45.81 / 47
p0 2.631e+04 ± 1.507e+04
400
300
200
100
0
−100
−200
−300
−400
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean −1804
Std Dev 1832
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

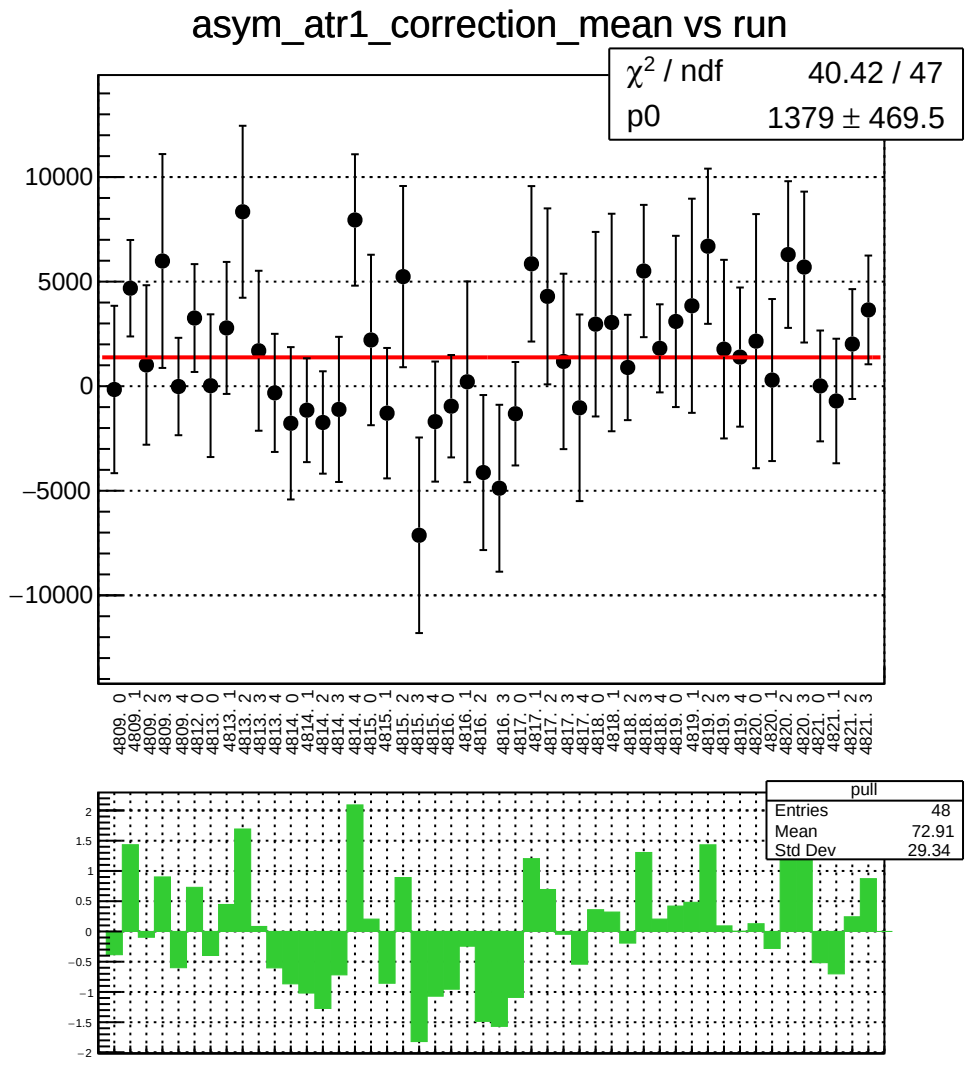

pull1D
Entries 48
Mean 0.001018
Std Dev 0.9769
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

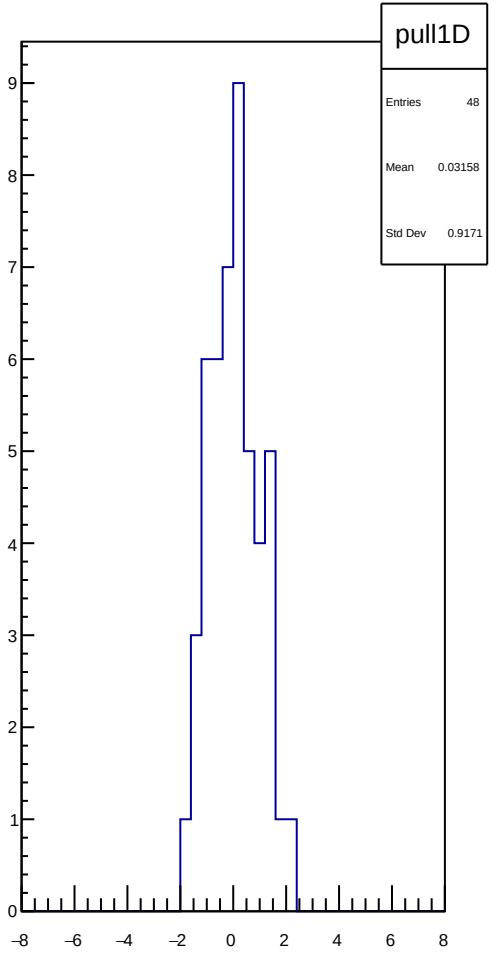

asym_atl2_rms vs run
χ² / ndf 62.78 / 47
p0 1.051e+04 ± 10.66
10800
10700
10600
10500
10400
10300
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

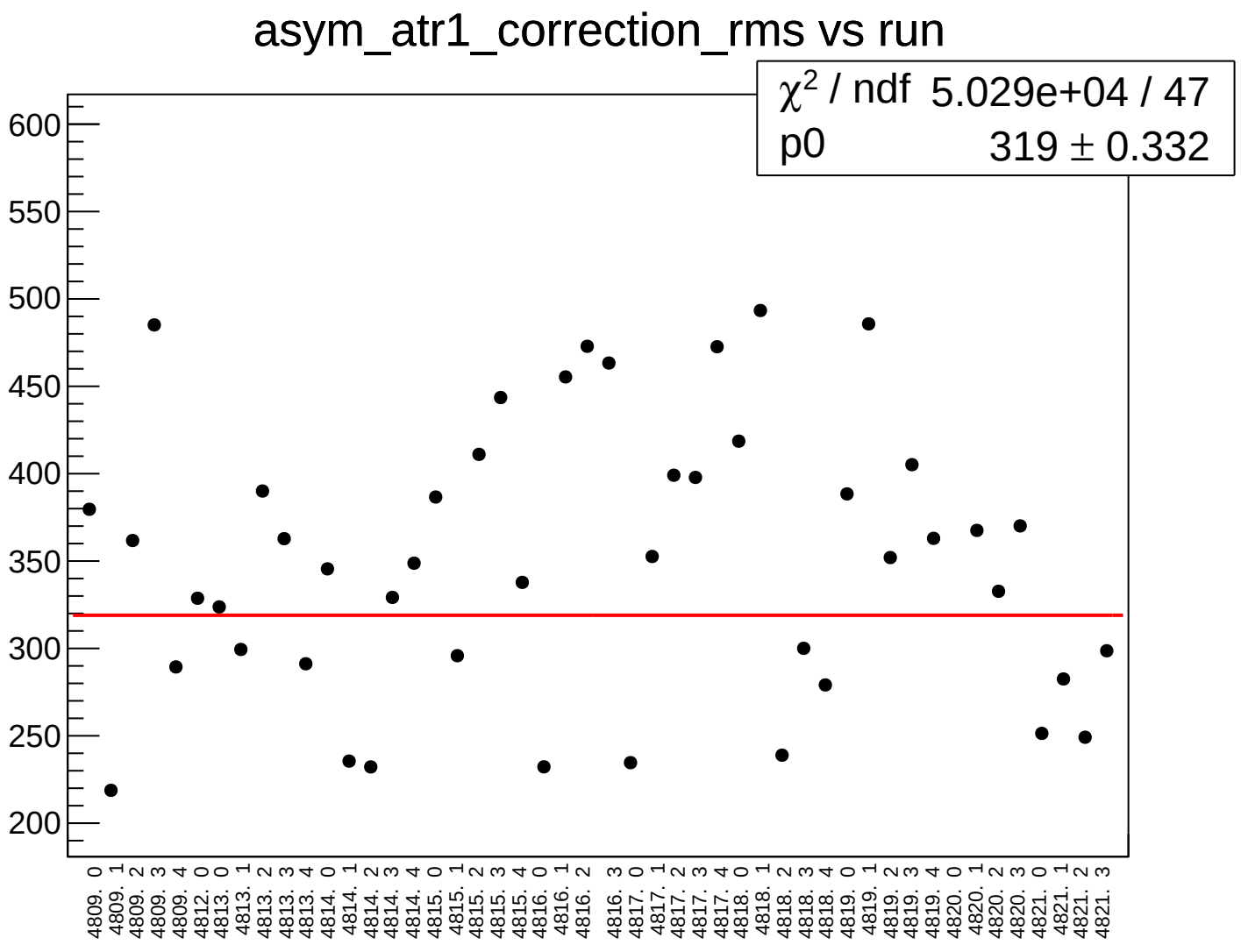

reg_asym_atr1_mean vs run
×10^3
χ² / ndf 37.96 / 47
p0 −1158 ± 1.293e+04
300
200
100
0
−100
−200
−300
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 1679
Std Dev 1656
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

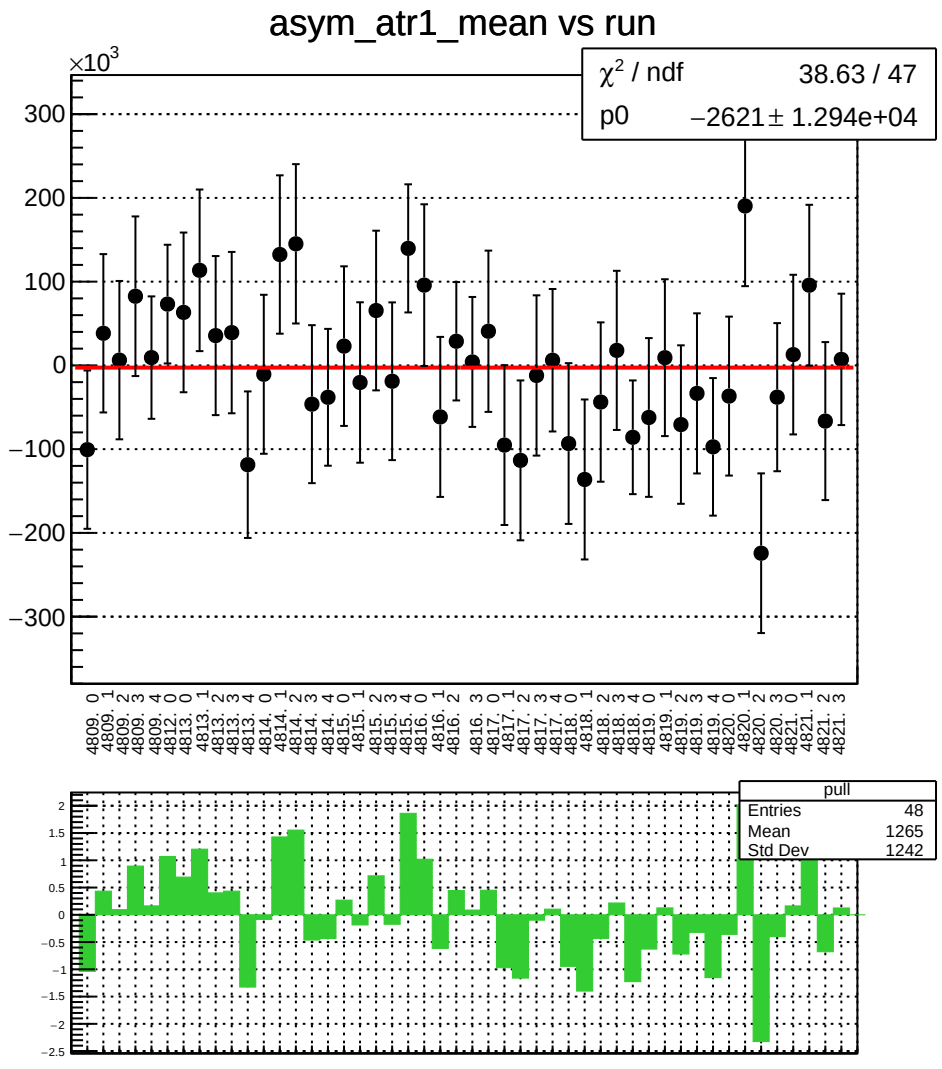

pull1D
Entries 48
Mean −0.00216
Std Dev 0.8892
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

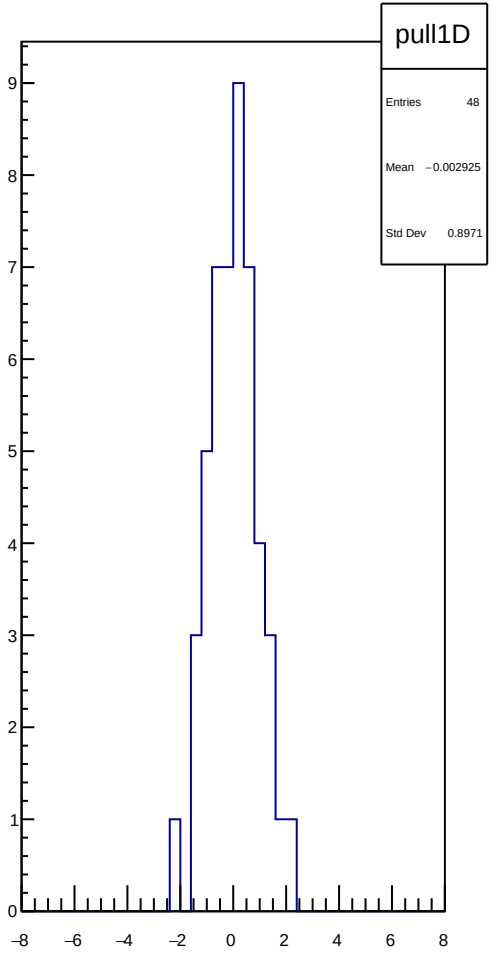

reg_asym_atr1_rms vs run
χ² / ndf 38.01 / 47
p0 9023 ± 9.146
9200
9100
9000
8900
8800
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

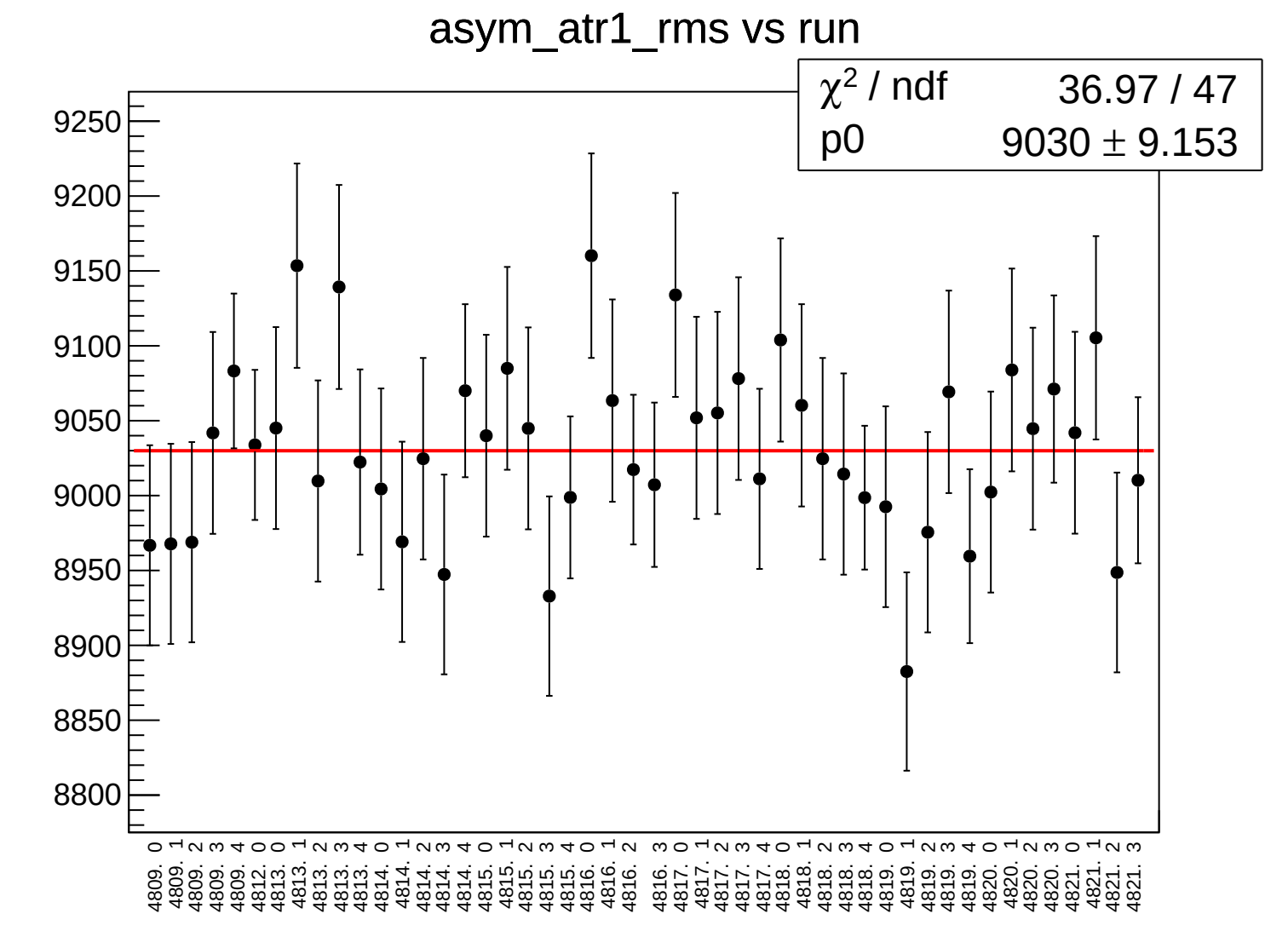

asym_atr1_correction_mean vs run
χ² / ndf 40.42 / 47
p0 1379 ± 469.5
10000
5000
0
−5000
−10000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 72.91
Std Dev 29.34
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

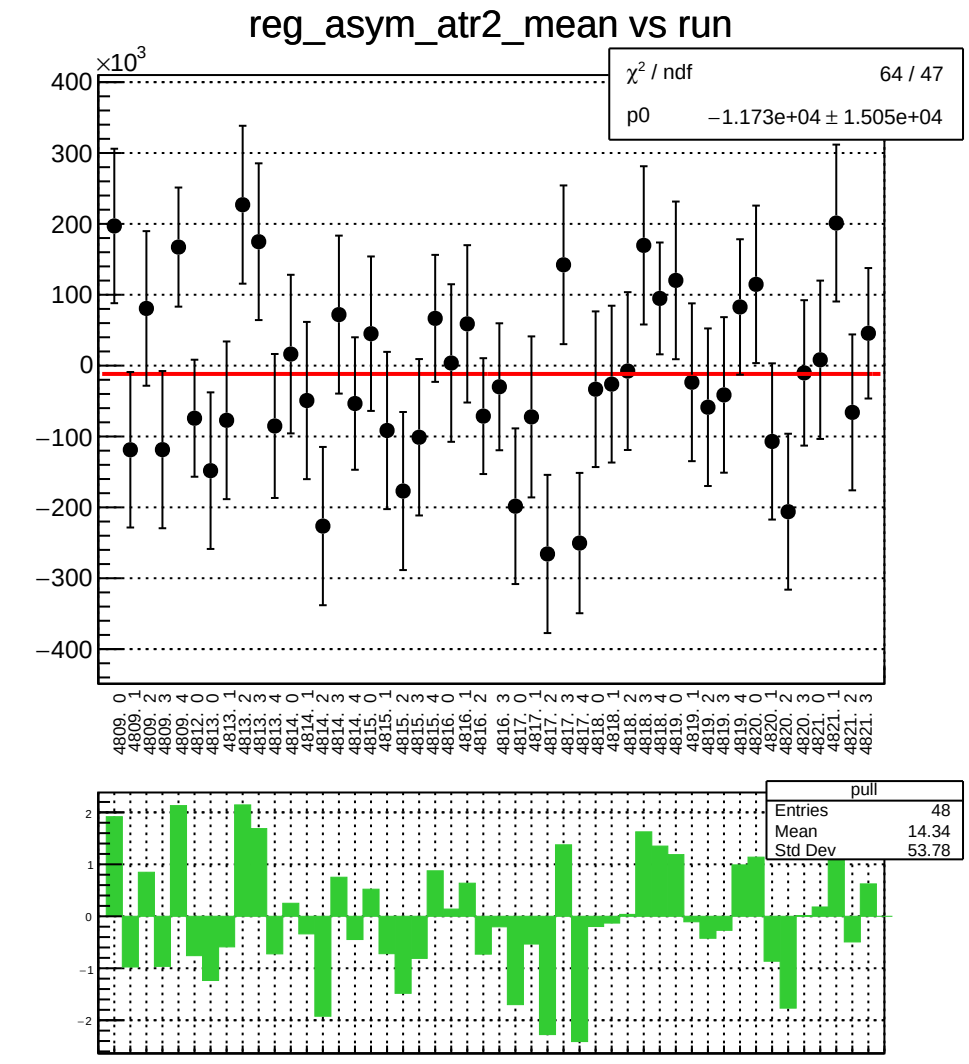

pull1D
Entries 48
Mean 0.03158
Std Dev 0.9171
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

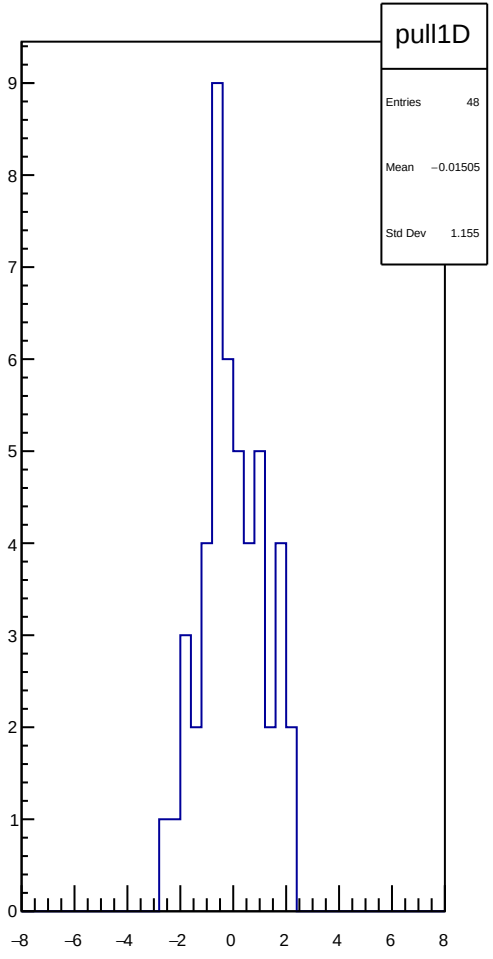

asym_atr1_correction_rms vs run
χ² / ndf 5.029e+04 / 47
p0 319 ± 0.332
600
550
500
450
400
350
300
250
200
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

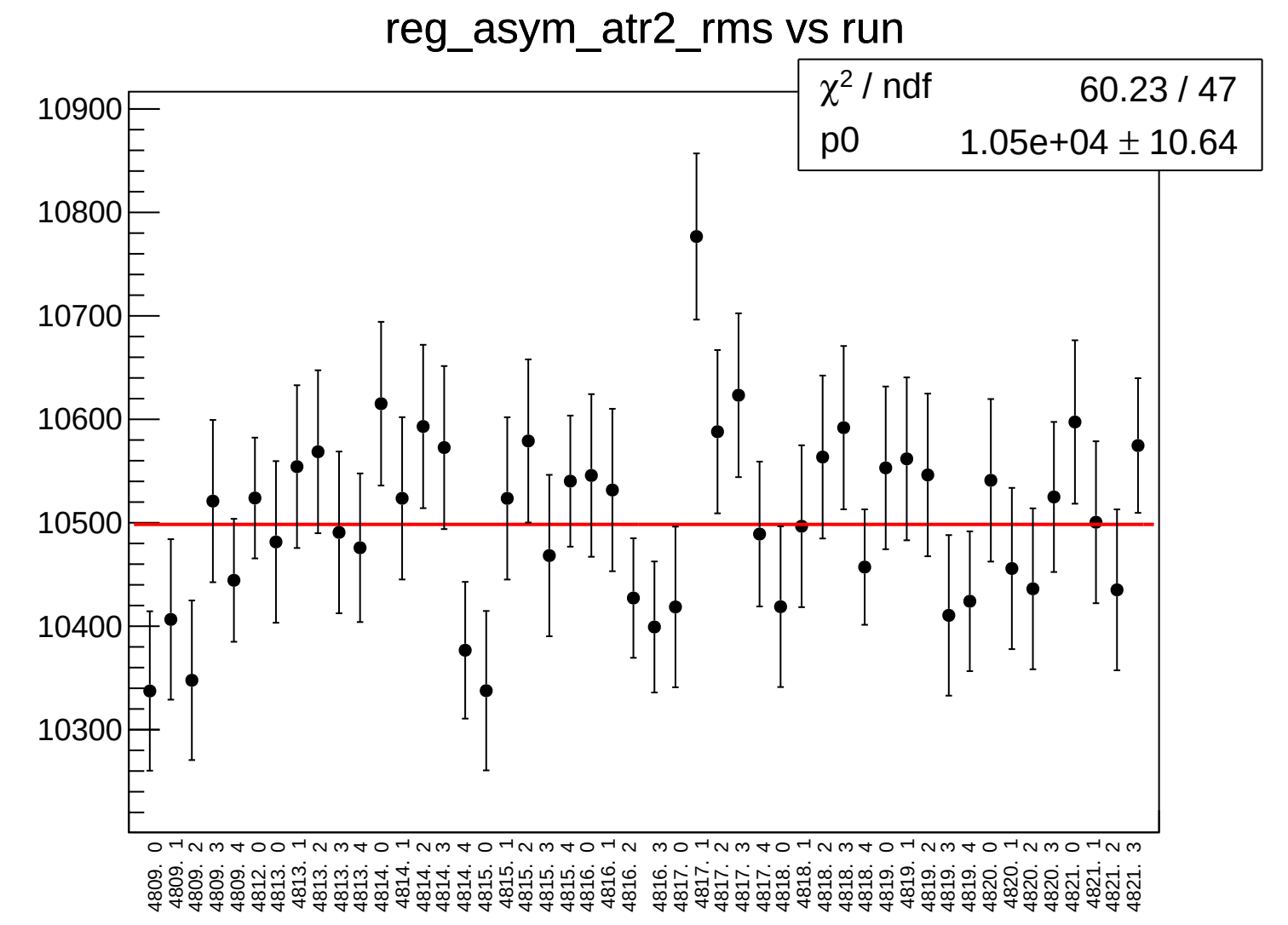

asym_atr1_mean vs run
×10^3
χ² / ndf 38.63 / 47
p0 −2621 ± 1.294e+04
300
200
100
0
−100
−200
−300
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 1265
Std Dev 1242
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

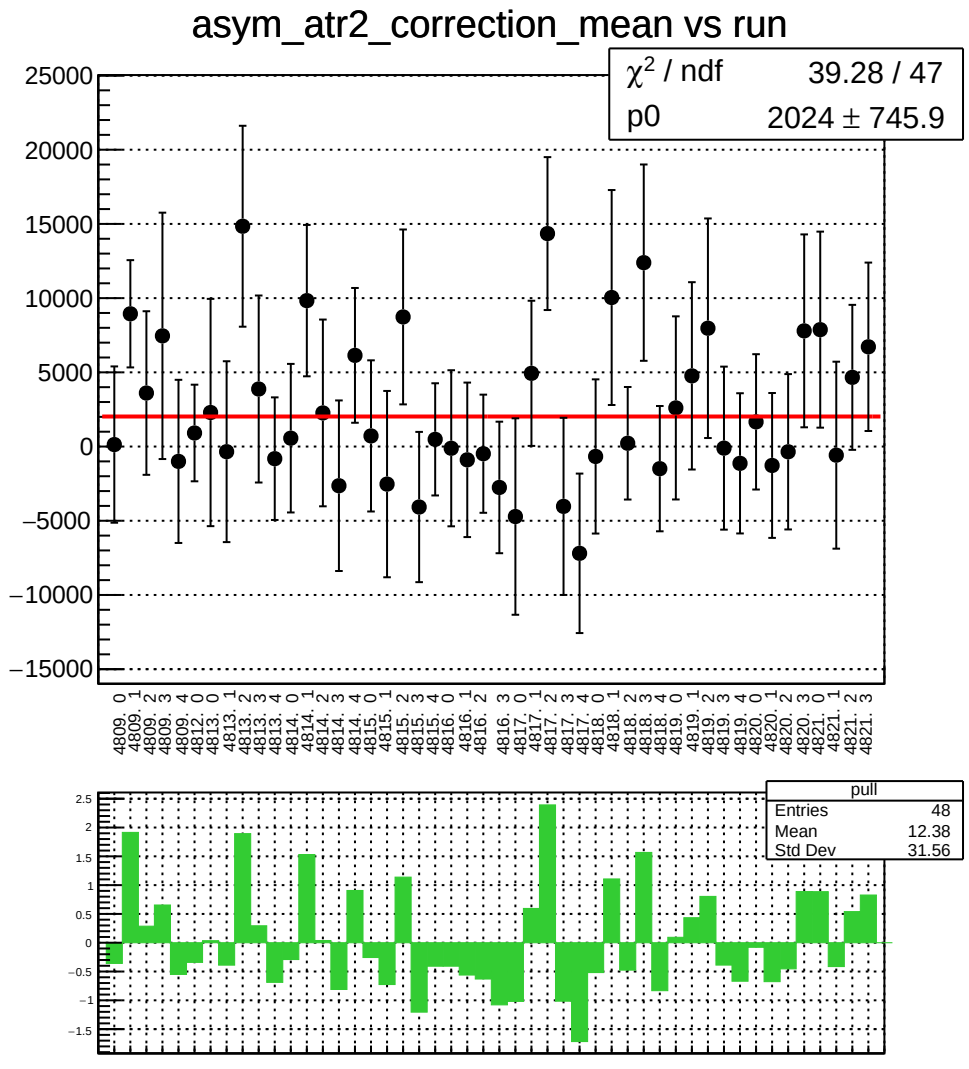

pull1D
Entries 48
Mean −0.002925
Std Dev 0.8971
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

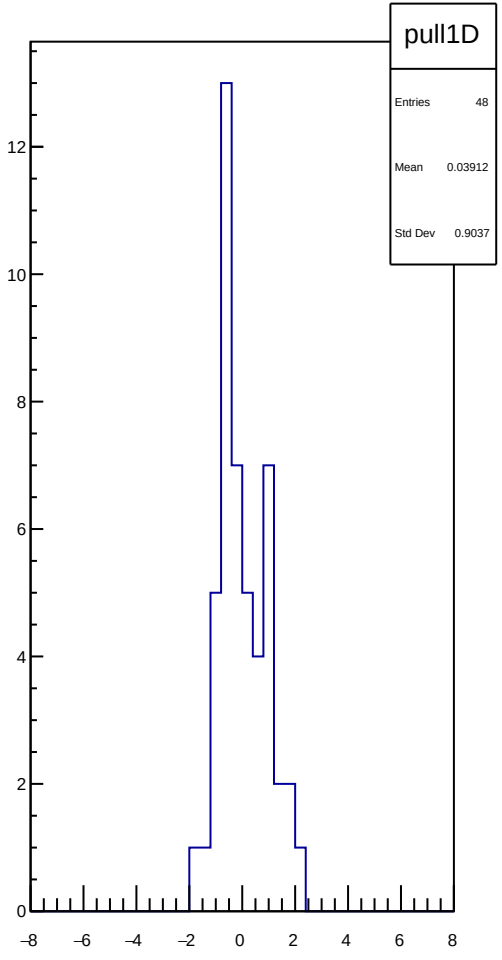

asym_atr1_rms vs run
χ² / ndf 36.97 / 47
p0 9030 ± 9.153
9250
9200
9150
9100
9050
9000
8950
8900
8850
8800
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

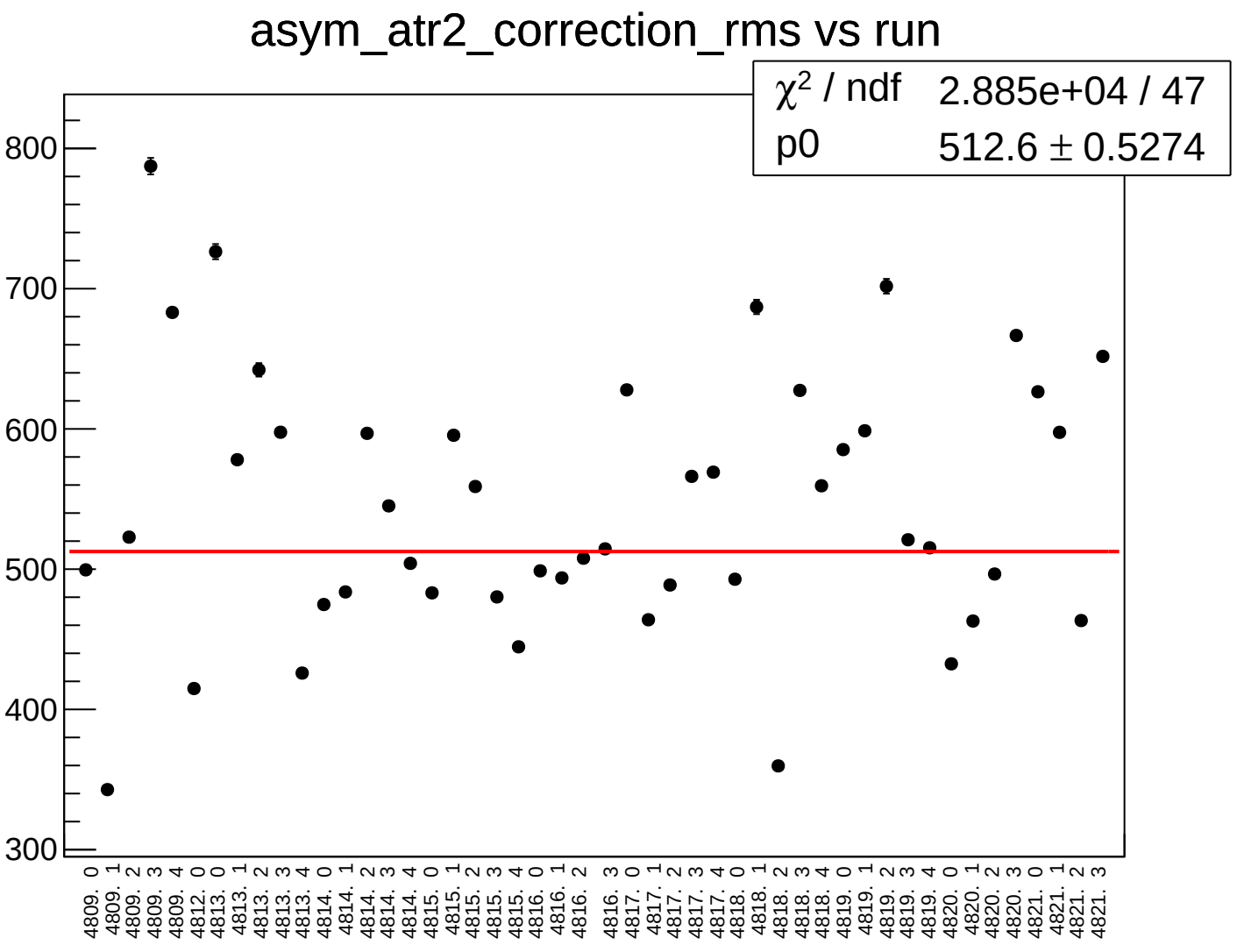

reg_asym_atr2_mean vs run
×10^3
χ² / ndf 64 / 47
p0 −1.173e+04 ± 1.505e+04
pull
Entries 48
Mean 14.34
Std Dev 53.78

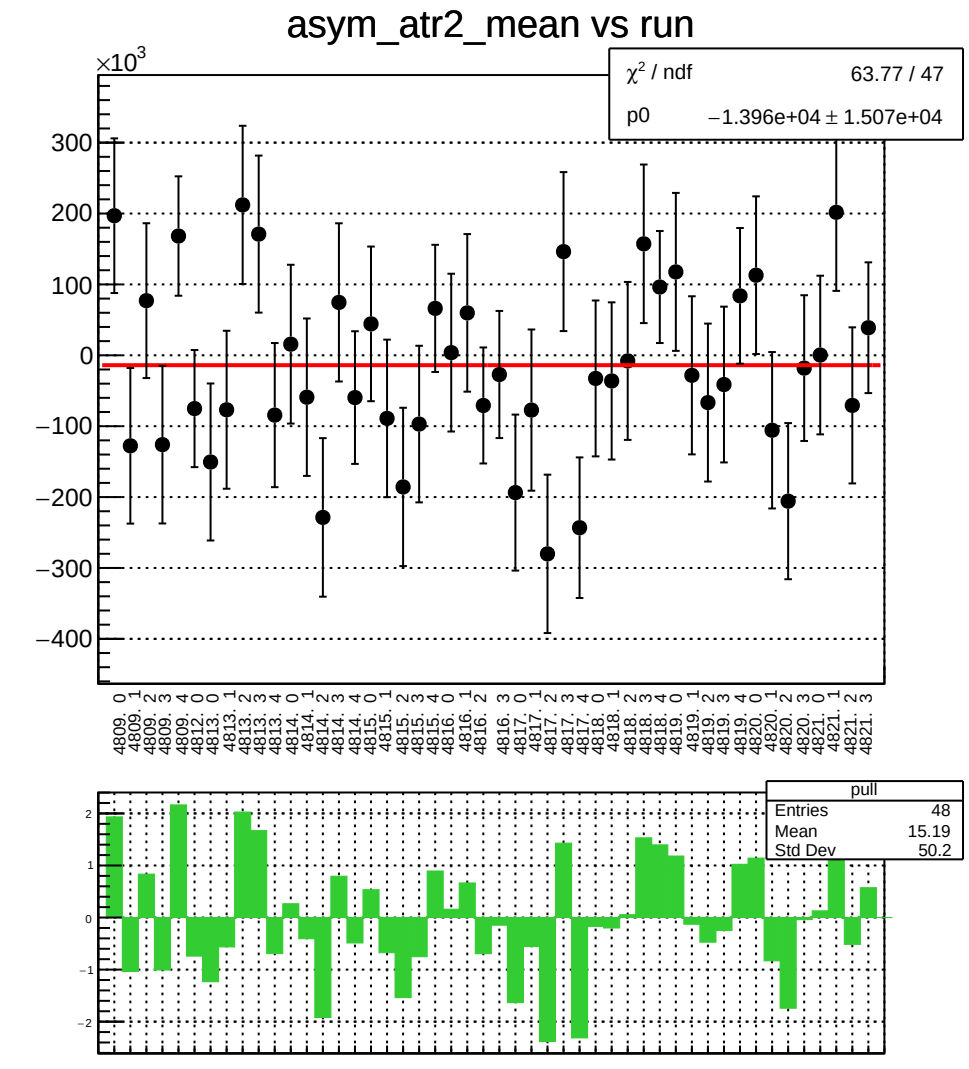

pull1D
Entries 48
Mean −0.01505
Std Dev 1.155

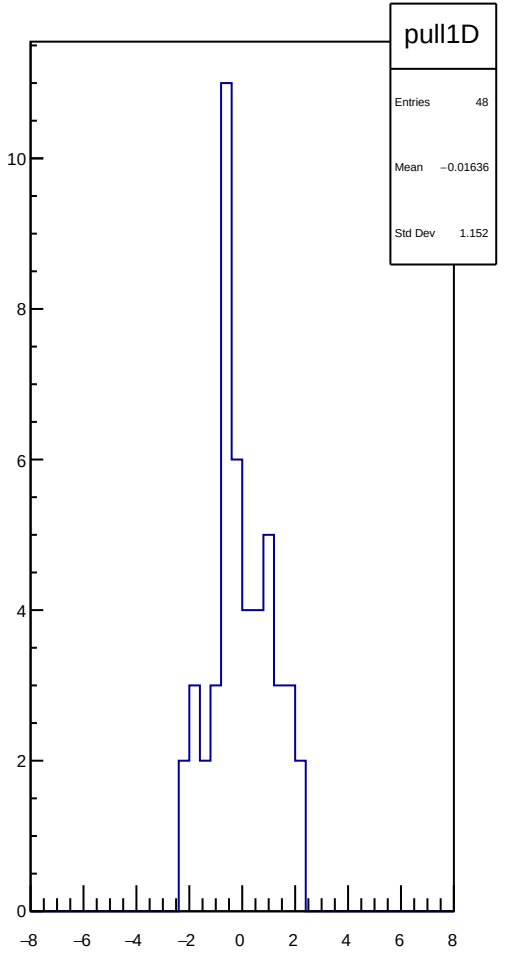

reg_asym_atr2_rms vs run
χ² / ndf 60.23 / 47
p0 1.05e+04 ± 10.64
10900
10800
10700
10600
10500
10400
10300
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

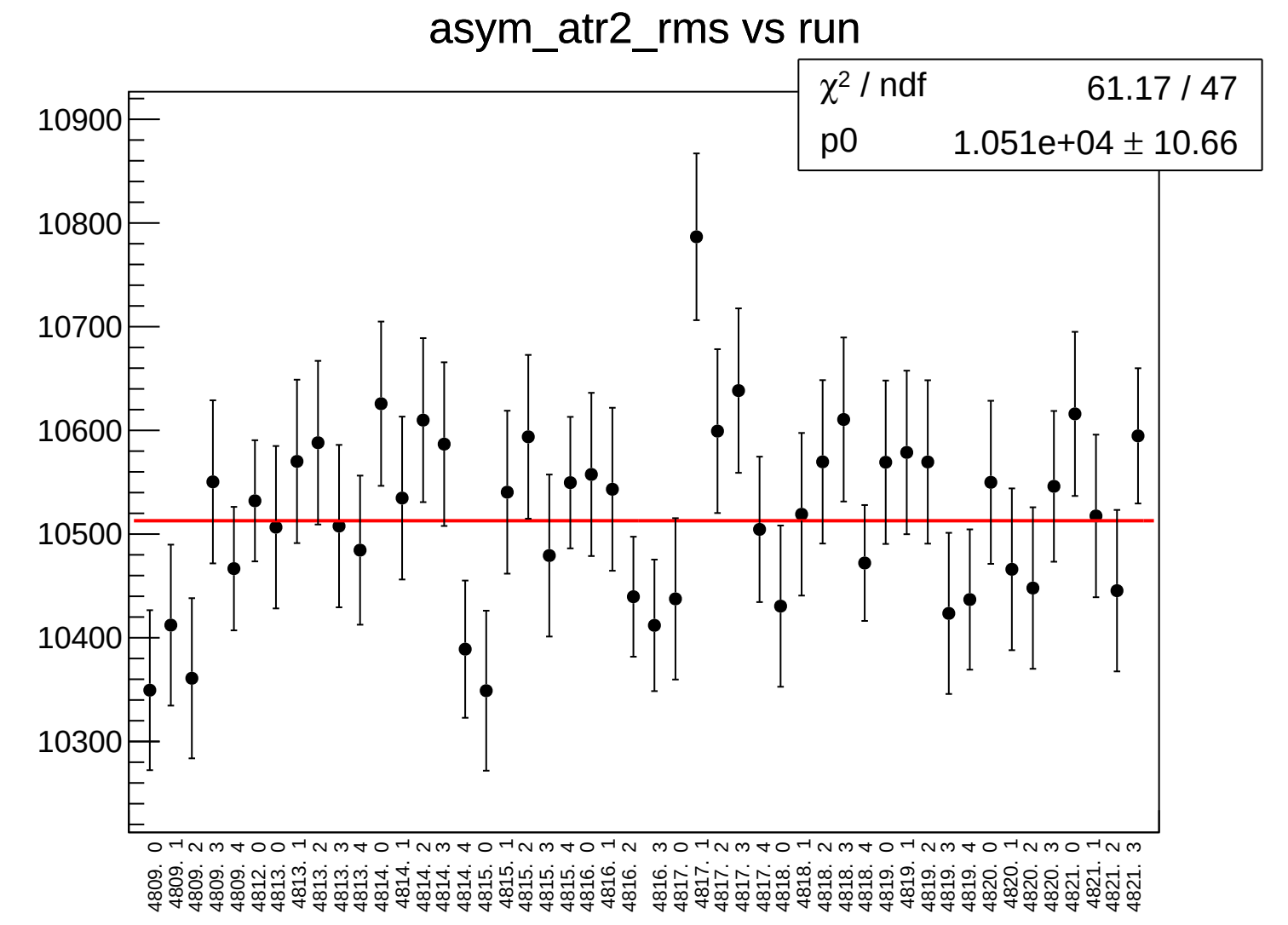

asym_atr2_correction_mean vs run
χ² / ndf 39.28 / 47
p0 2024 ± 745.9
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 12.38
Std Dev 31.56
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

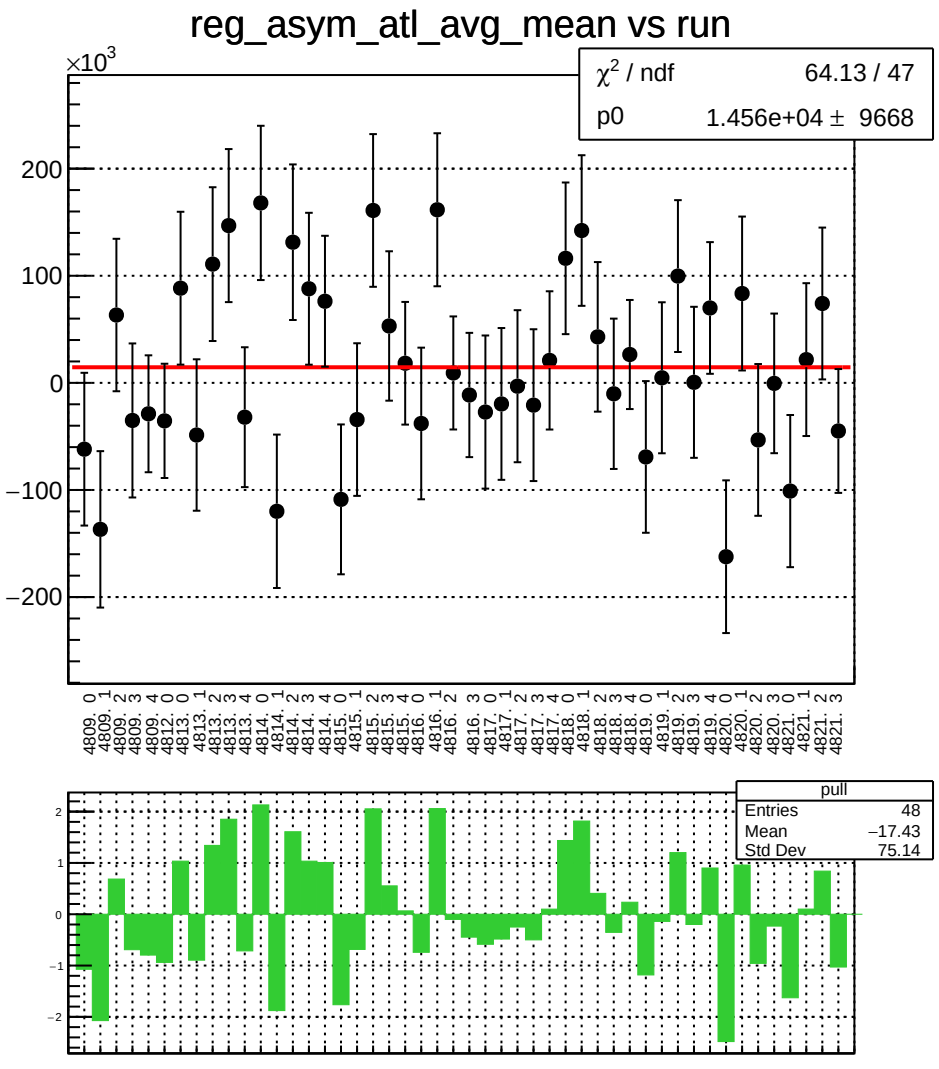

pull1D
Entries 48
Mean 0.03912
Std Dev 0.9037
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

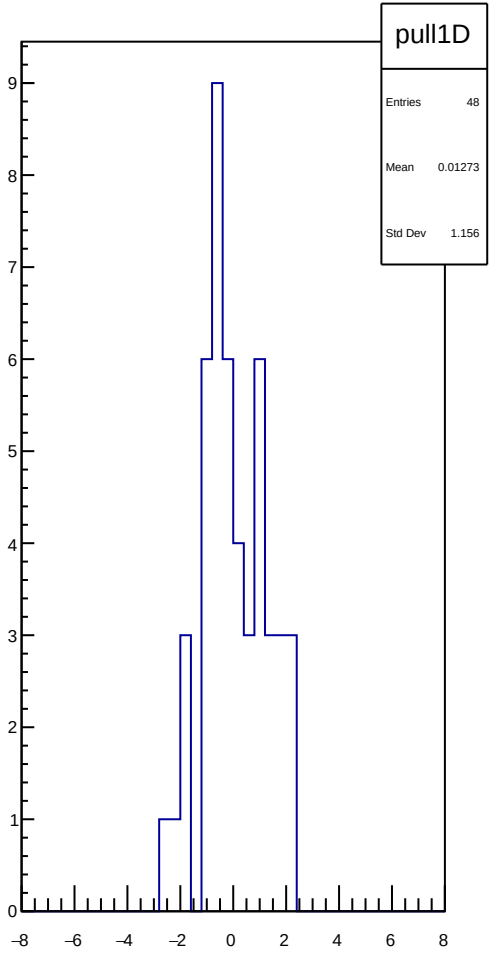

asym_atr2_correction_rms vs run
χ² / ndf 2.885e+04 / 47
p0 512.6 ± 0.5274
800
700
600
500
400
300
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

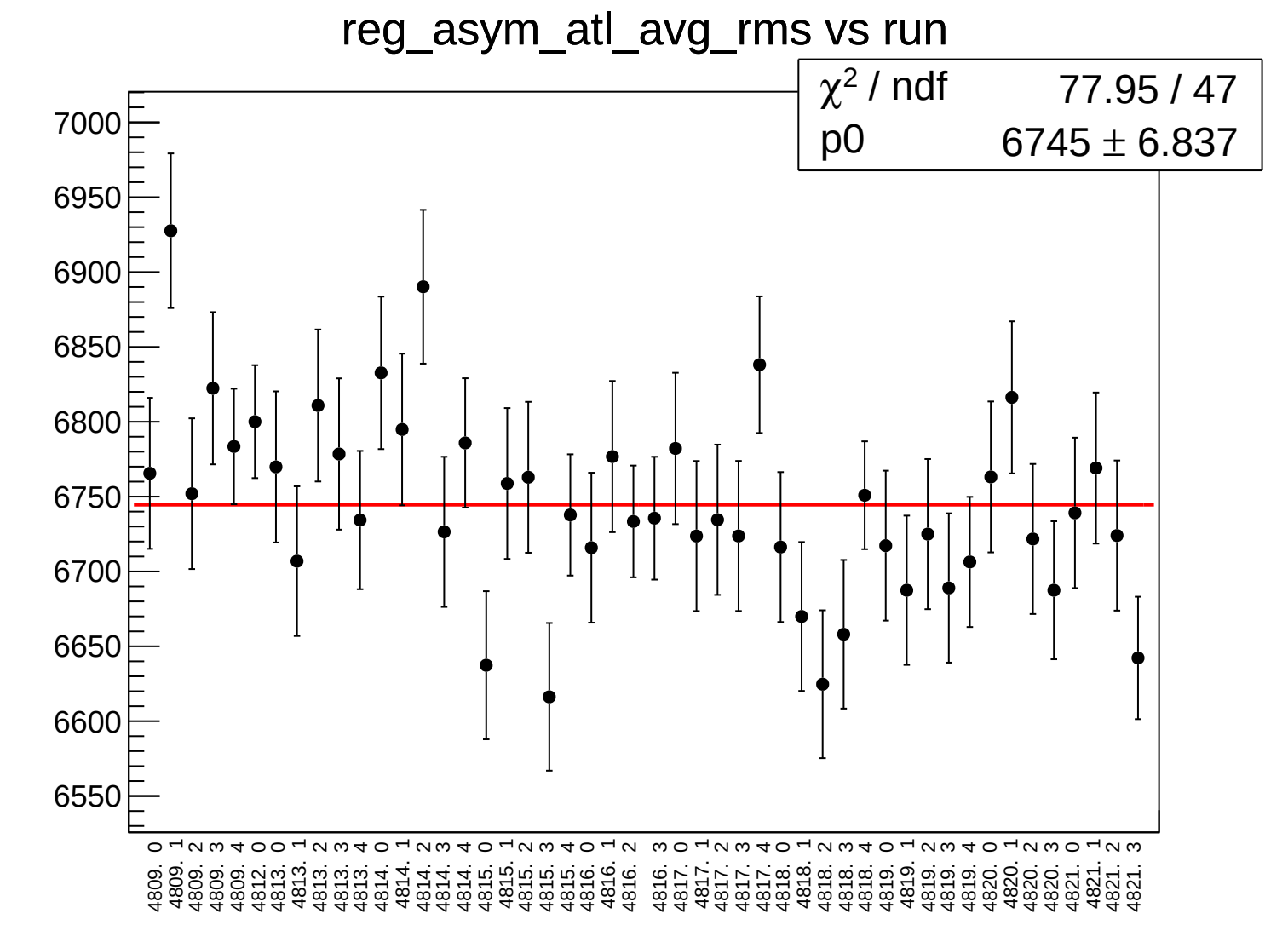

asym_atr2_mean vs run
×10^3
χ² / ndf 63.77 / 47
p0 −1.396e+04 ± 1.507e+04
300
200
100
0
−100
−200
−300
−400
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 15.19
Std Dev 50.2
2
1
0
−1
−2

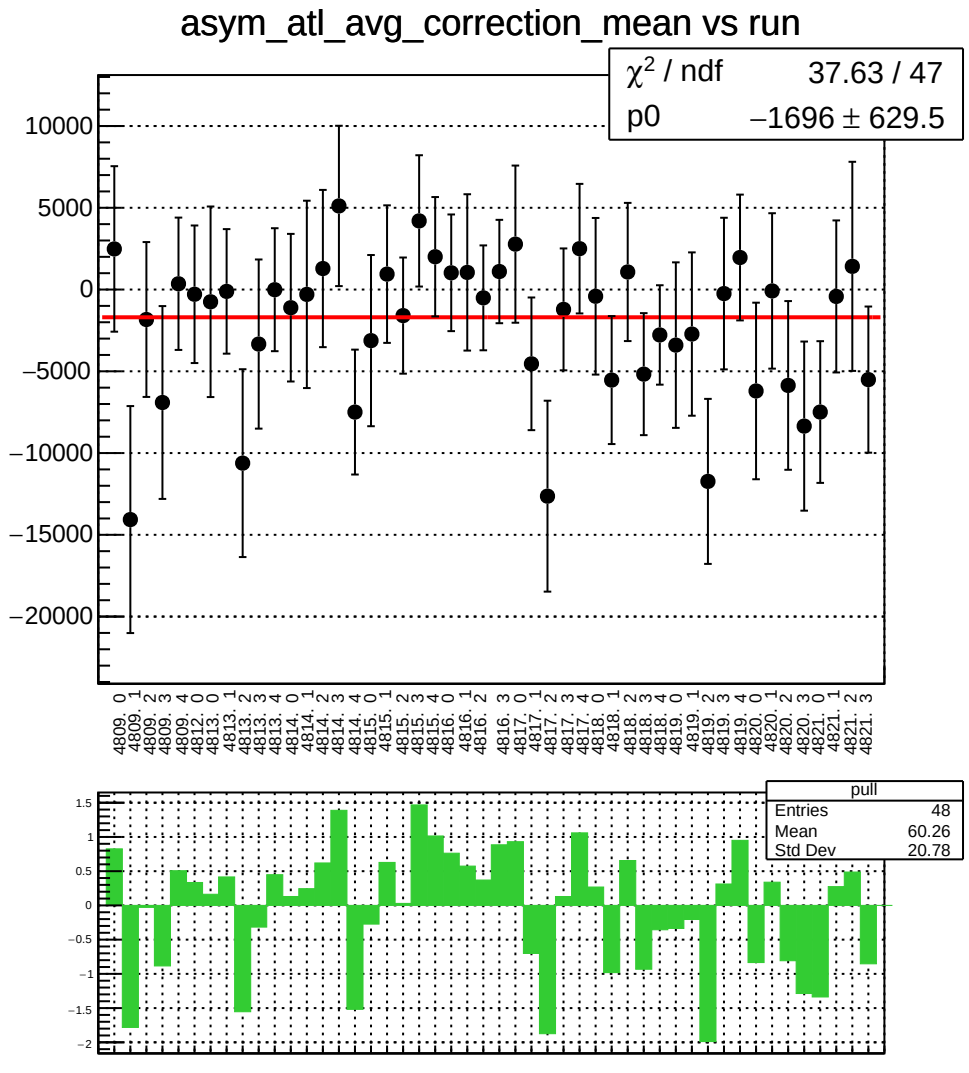

pull1D
Entries 48
Mean −0.01636
Std Dev 1.152
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

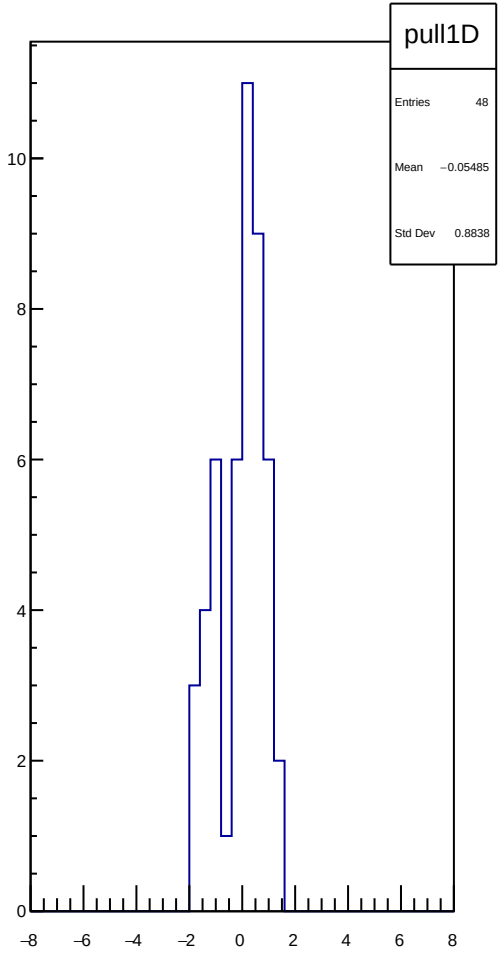

asym_atr2_rms vs run
χ² / ndf 61.17 / 47
p0 1.051e+04 ± 10.66
10900
10800
10700
10600
10500
10400
10300
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

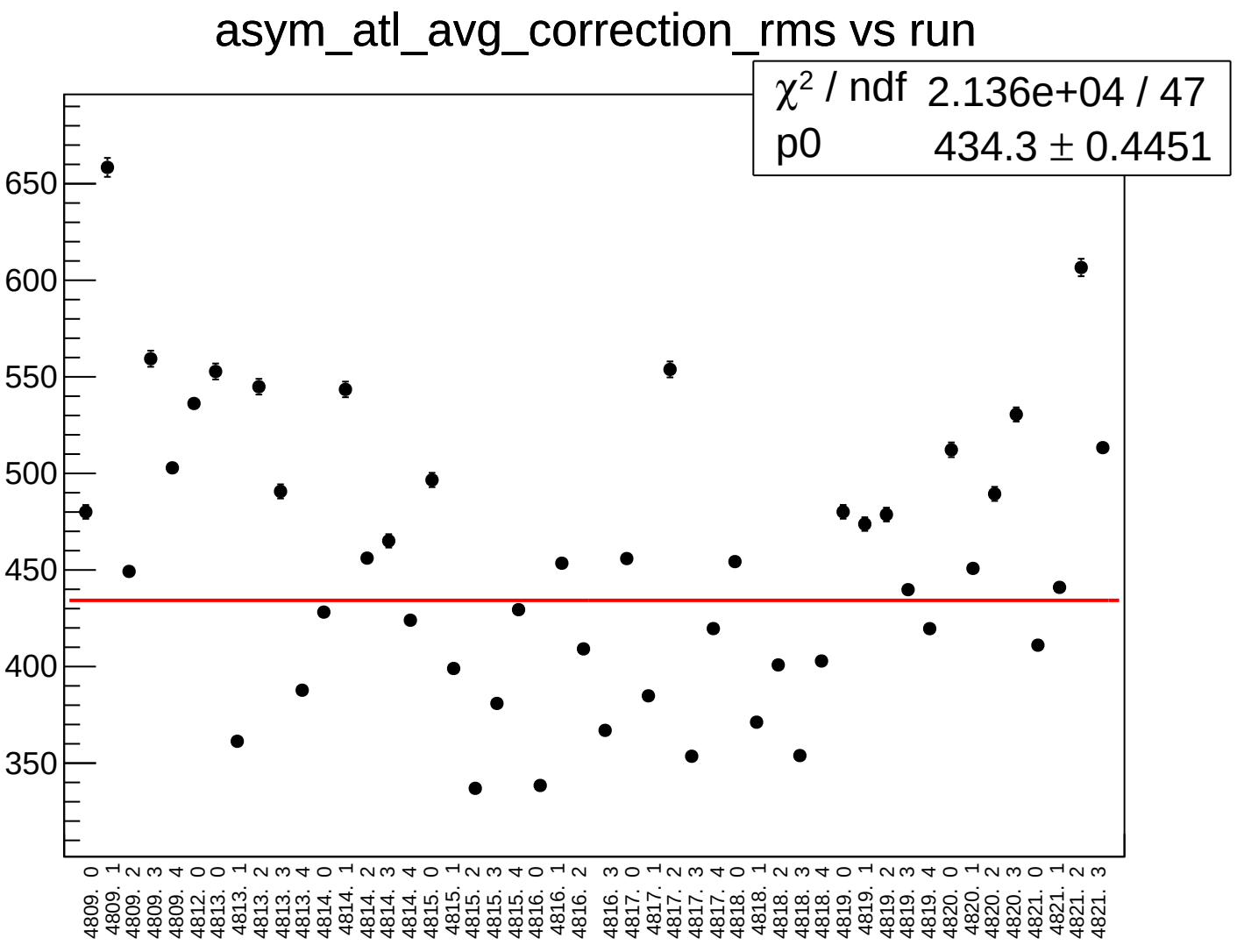

reg_asym_atl_avg_mean vs run
×10^3
χ² / ndf 64.13 / 47
p0 1.456e+04 ± 9668
200
100
0
−100
−200
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean −17.43
Std Dev 75.14
2
1
0
−1
−2

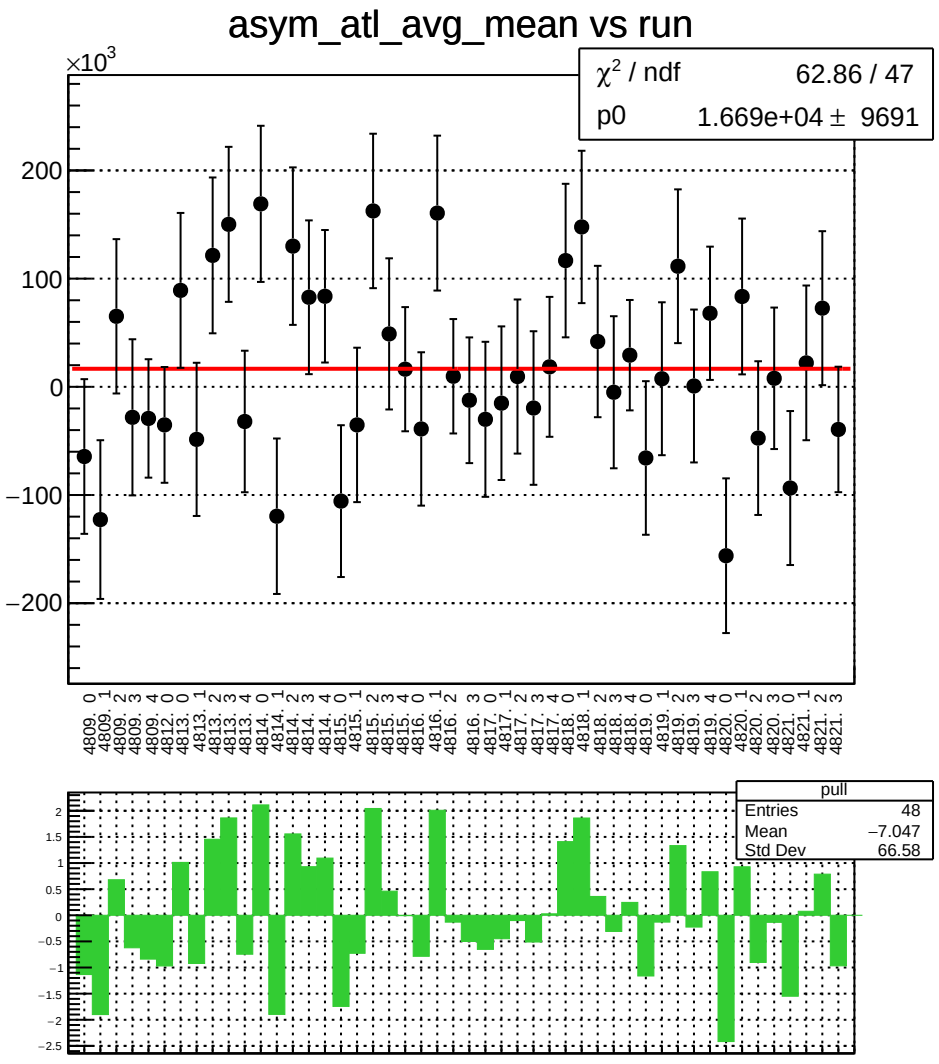

pull1D
Entries 48
Mean 0.01273
Std Dev 1.156
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

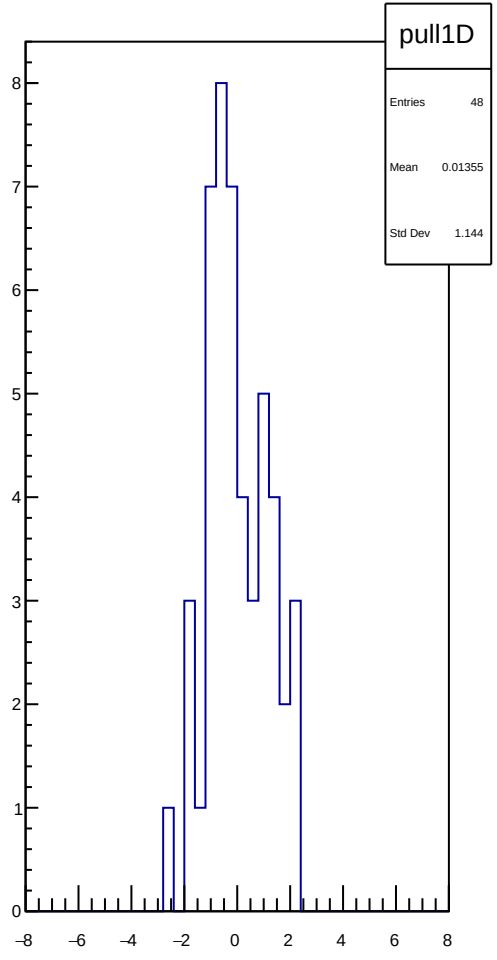

reg_asym_atl_avg_rms vs run
χ² / ndf 77.95 / 47
p0 6745 ± 6.837
7000
6950
6900
6850
6800
6750
6700
6650
6600
6550
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

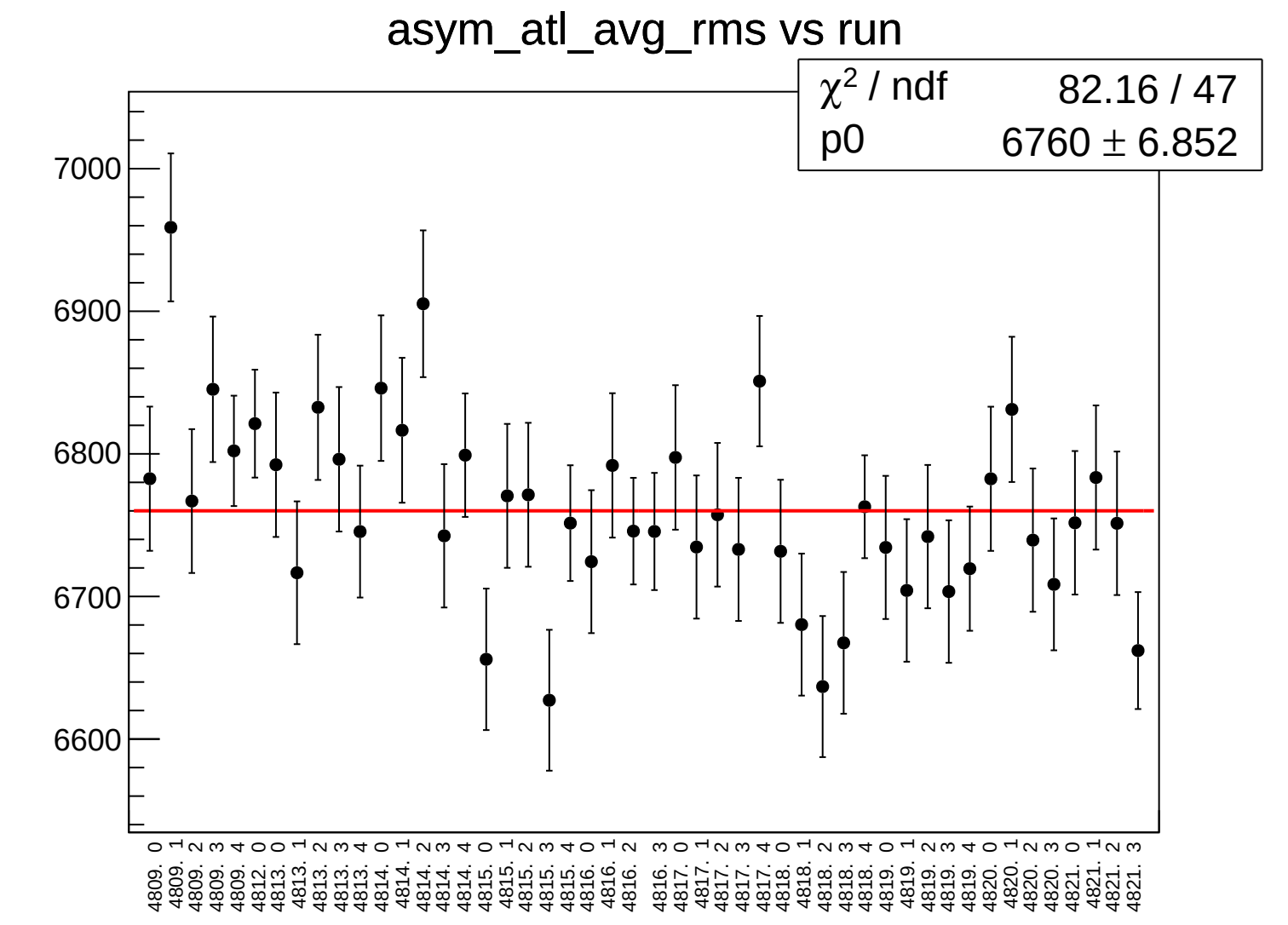

asym_atl_avg_correction_mean vs run
χ² / ndf 37.63 / 47
p0 −1696 ± 629.5
10000
5000
0
−5000
−10000
−15000
−20000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 60.26
Std Dev 20.78
1.5
1
0.5
0
−0.5
−1
−1.5
−2

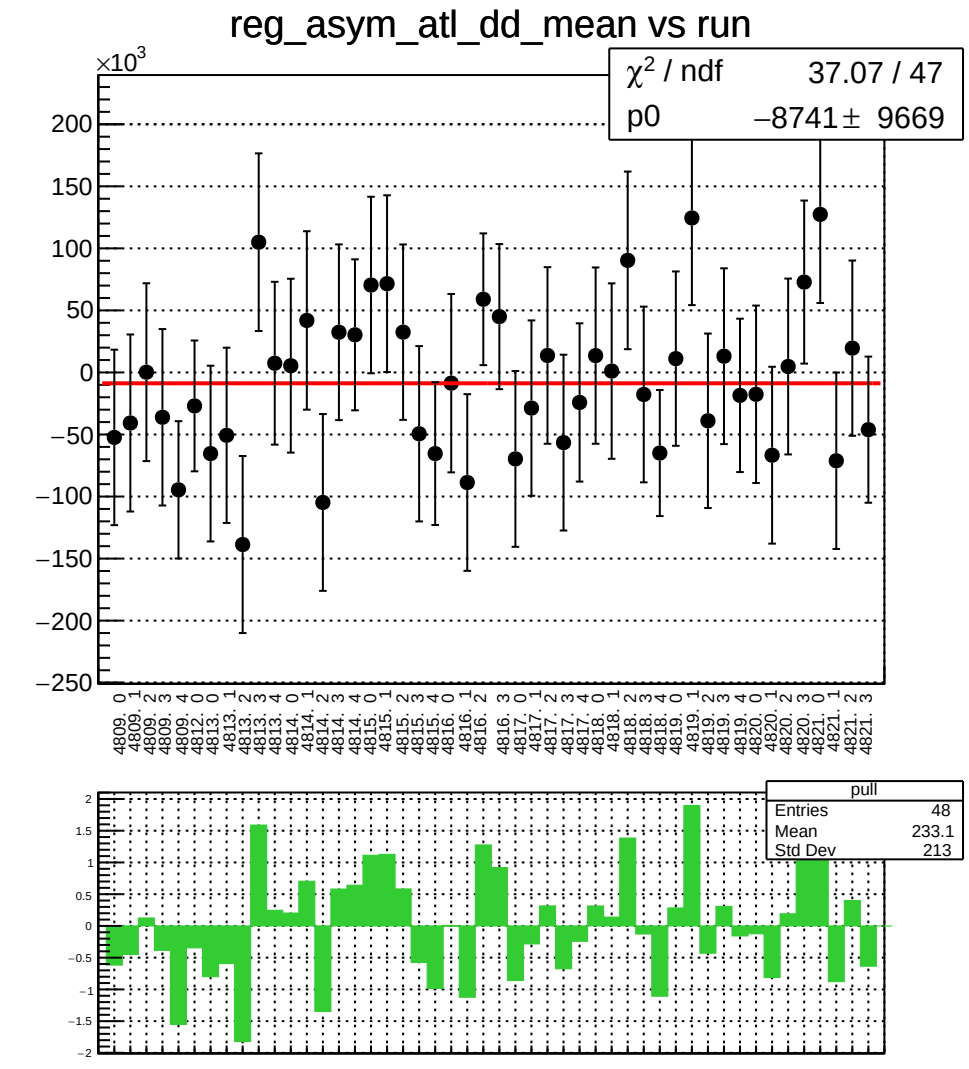

pull1D
Entries 48
Mean −0.05485
Std Dev 0.8838
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

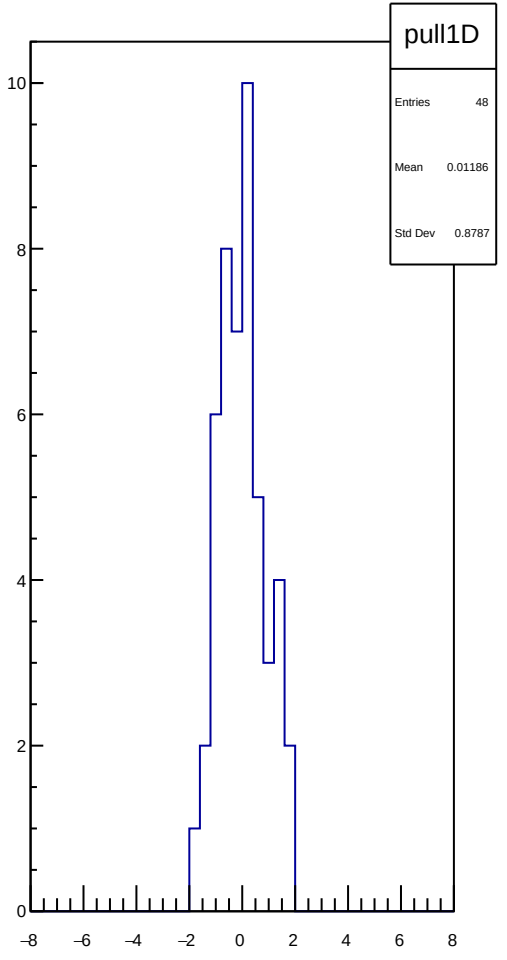

asym_atl_avg_correction_rms vs run
χ² / ndf 2.136e+04 / 47
p0 434.3 ± 0.4451
650
600
550
500
450
400
350
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

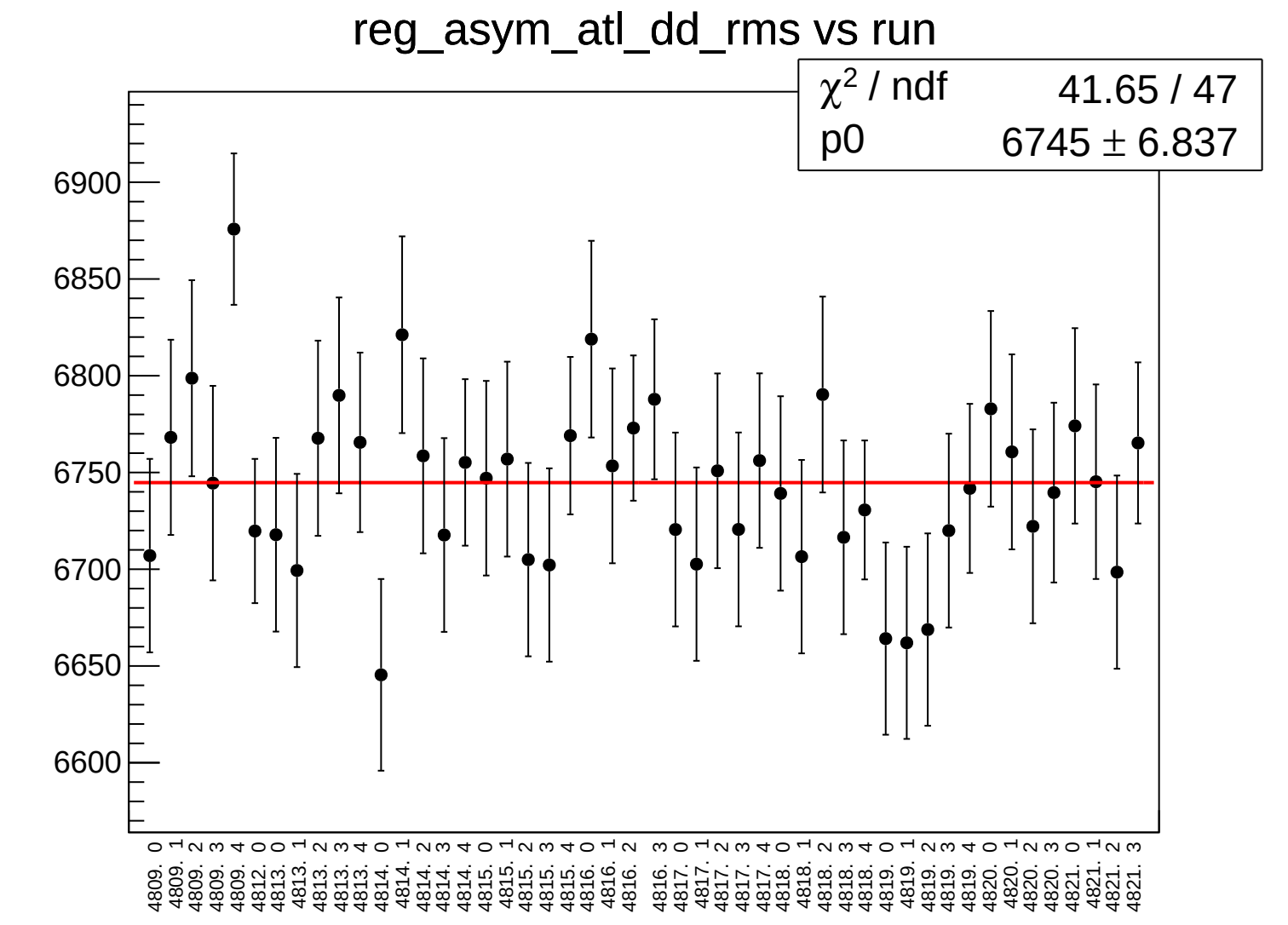

asym_atl_avg_mean vs run
×10^3
χ² / ndf 62.86 / 47
p0 1.669e+04 ± 9691
200
100
0
−100
−200
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean −7.047
Std Dev 66.58
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

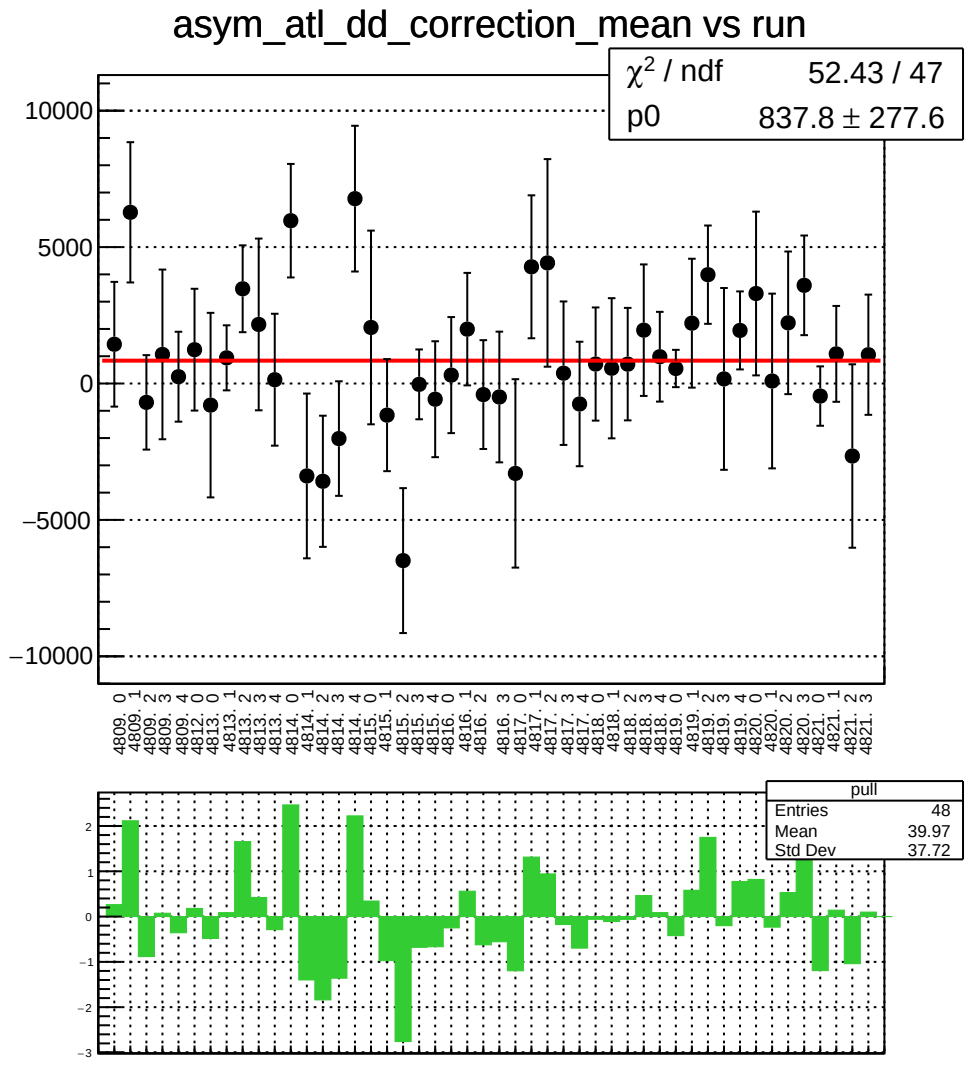

pull1D
Entries 48
Mean 0.01355
Std Dev 1.144
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

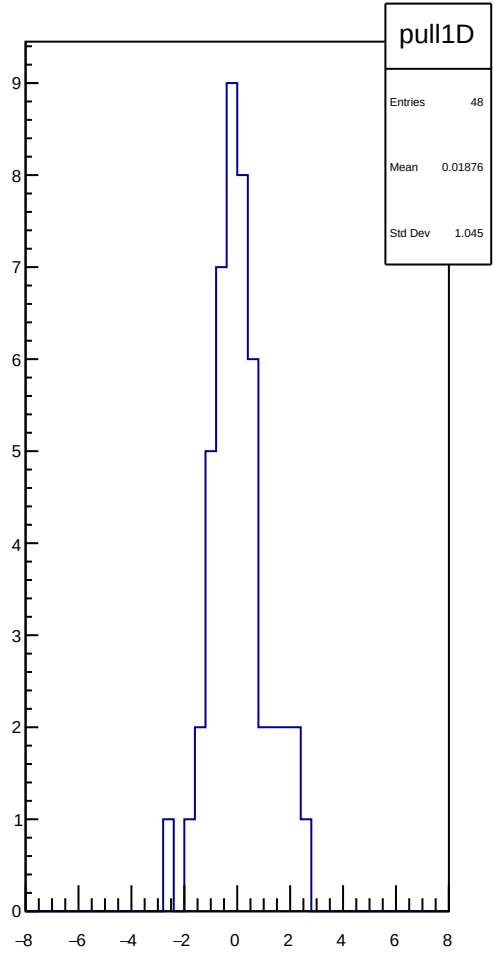

asym_atl_avg_rms vs run
χ^2 / ndf 82.16 / 47
p0 6760 ± 6.852
7000
6900
6800
6700
6600
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

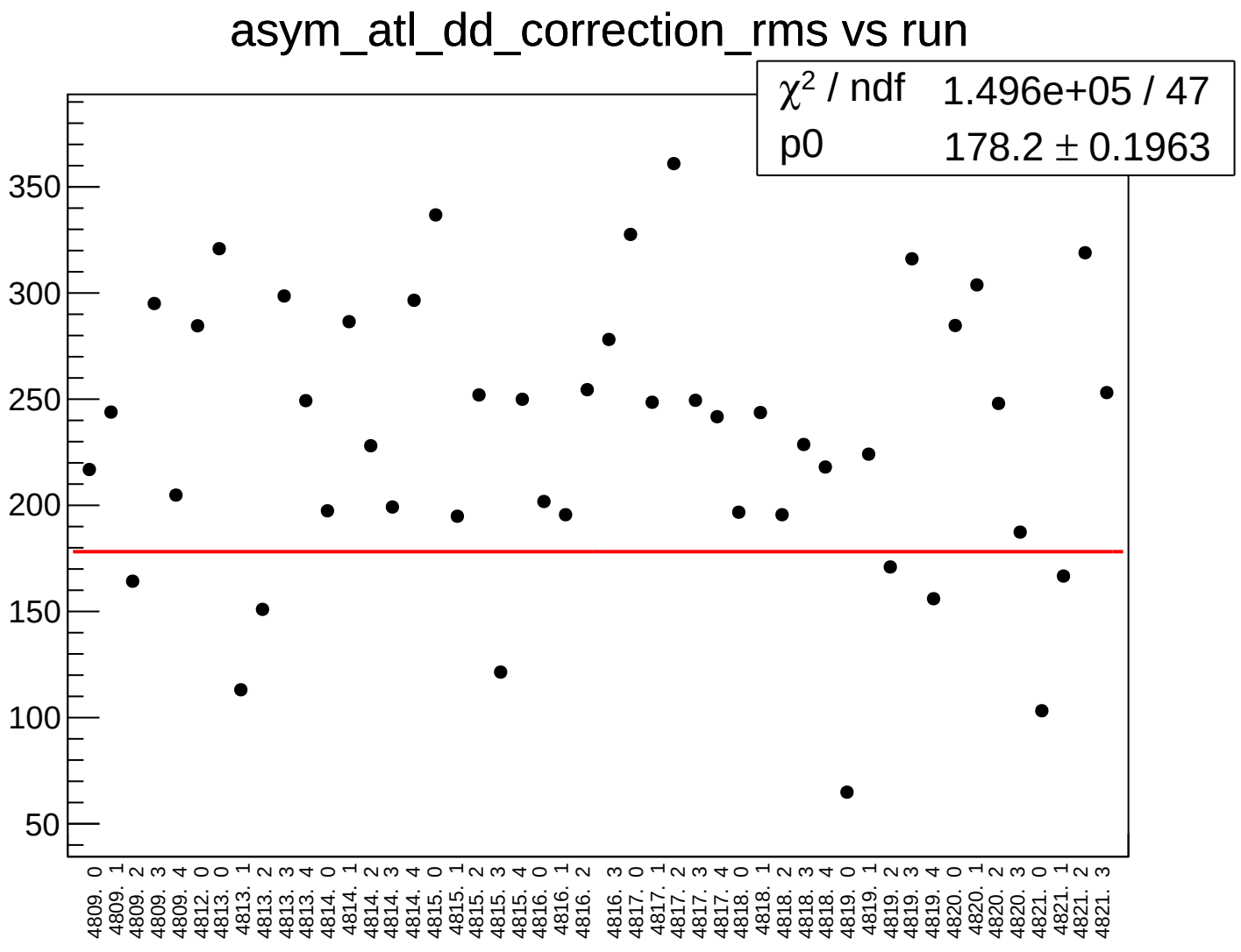

reg_asym_atl_dd_mean vs run
×10^3
χ^2 / ndf 37.07 / 47
p0 −8741 ± 9669
200
150
100
50
0
−50
−100
−150
−200
−250
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 233.1
Std Dev 213
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

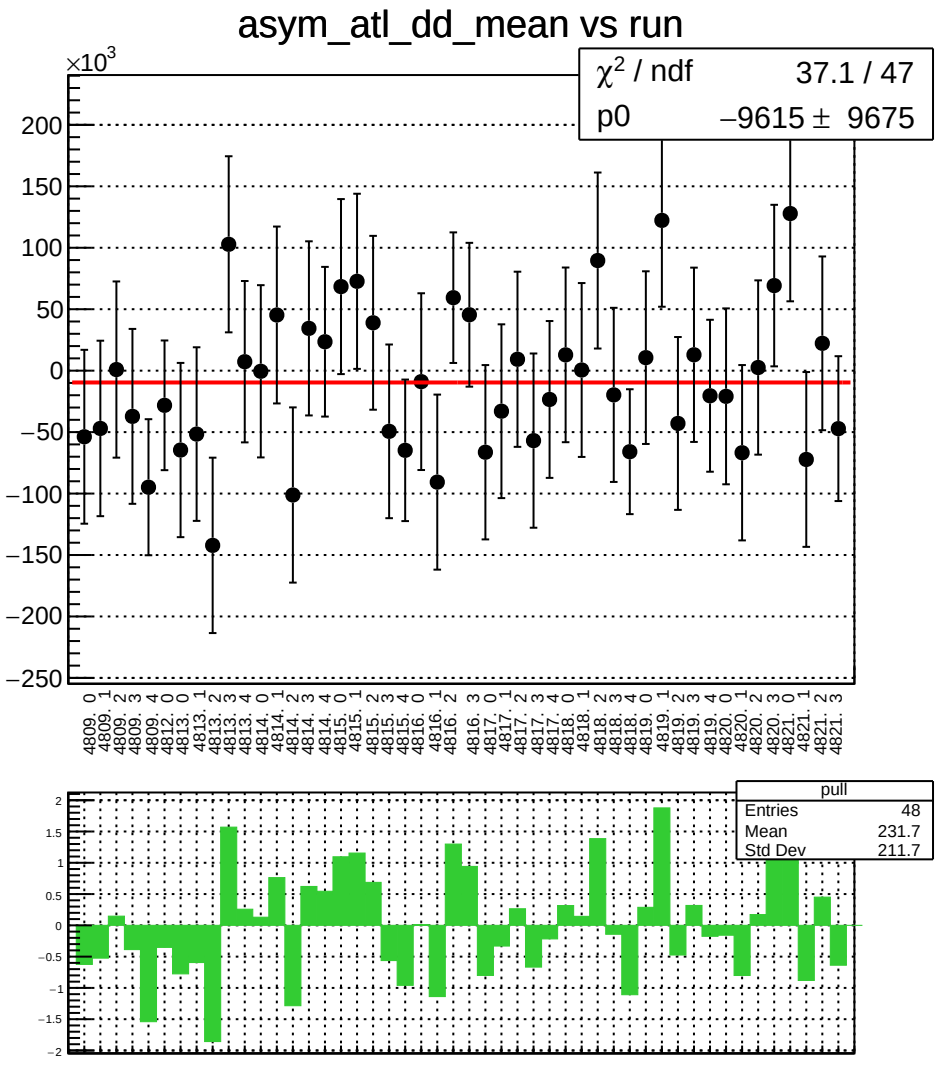

pull1D
Entries 48
Mean 0.01186
Std Dev 0.8787
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

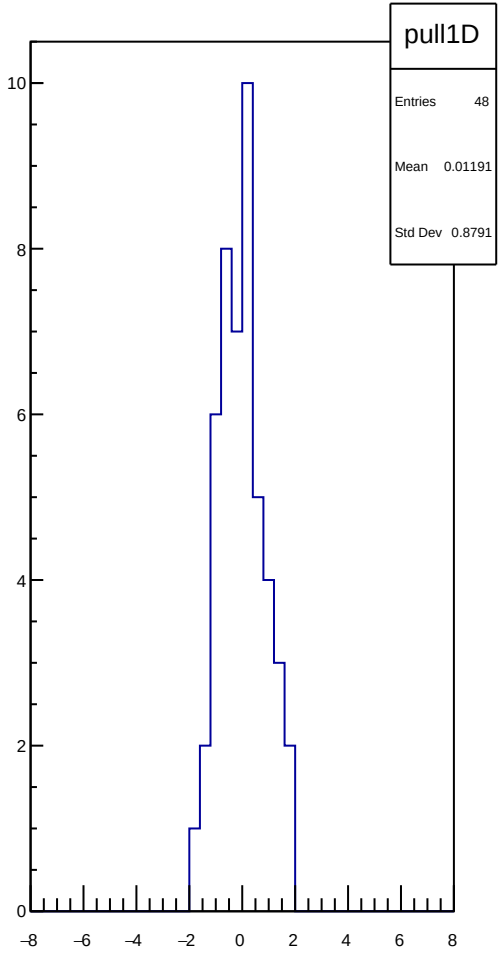

reg_asym_atl_dd_rms vs run
χ² / ndf 41.65 / 47
p0 6745 ± 6.837
6900
6850
6800
6750
6700
6650
6600
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

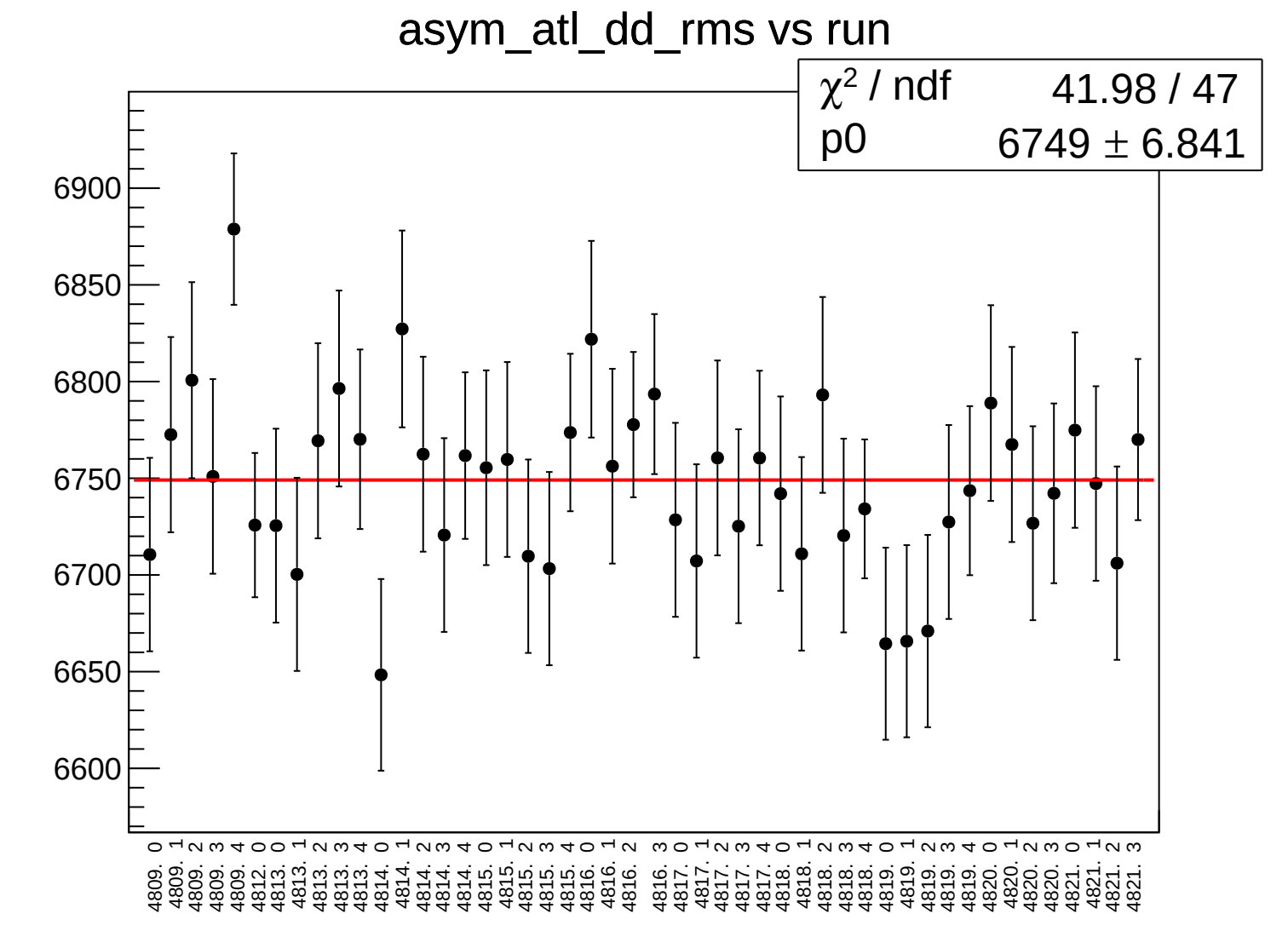

asym_atl_dd_correction_mean vs run
χ² / ndf 52.43 / 47
p0 837.8 ± 277.6
10000
5000
0
−5000
−10000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 39.97
Std Dev 37.72
2
1
0
−1
−2
−3

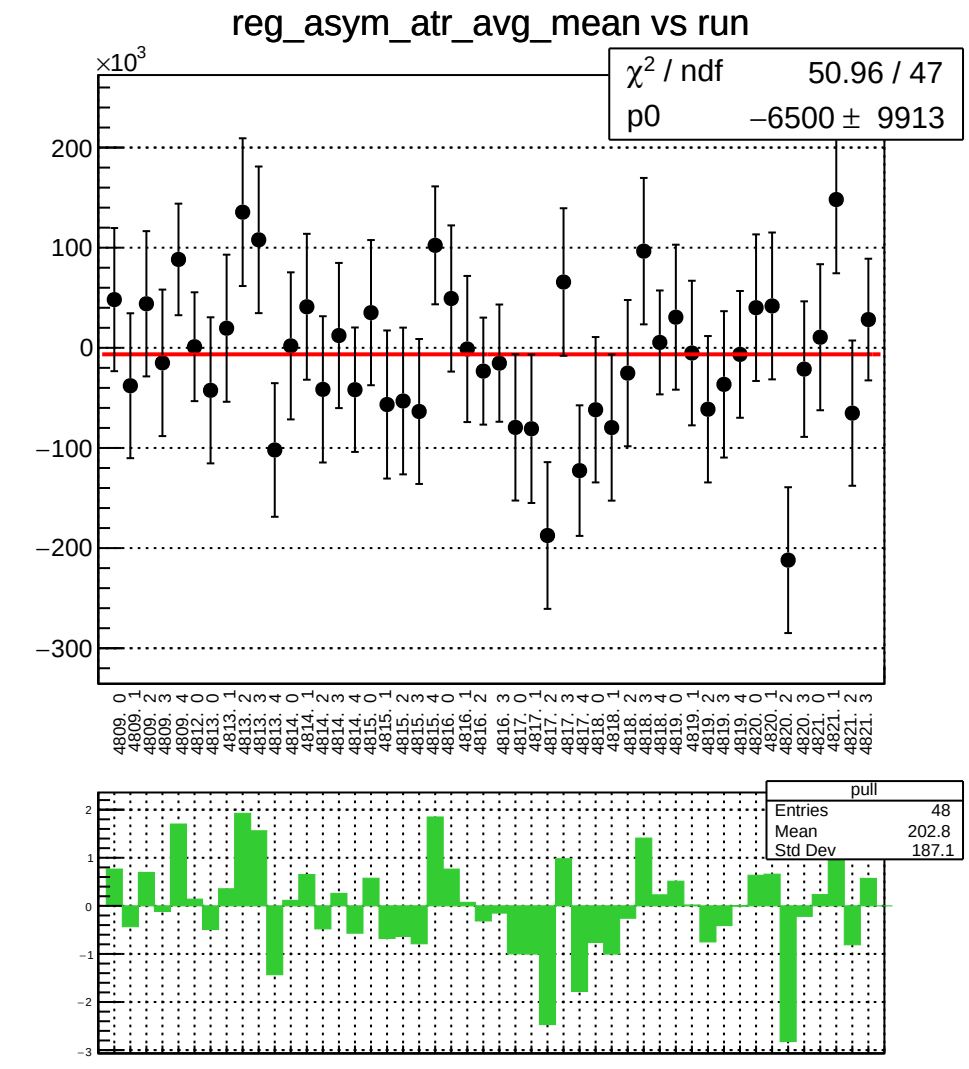

pull1D
Entries 48
Mean 0.01876
Std Dev 1.045
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

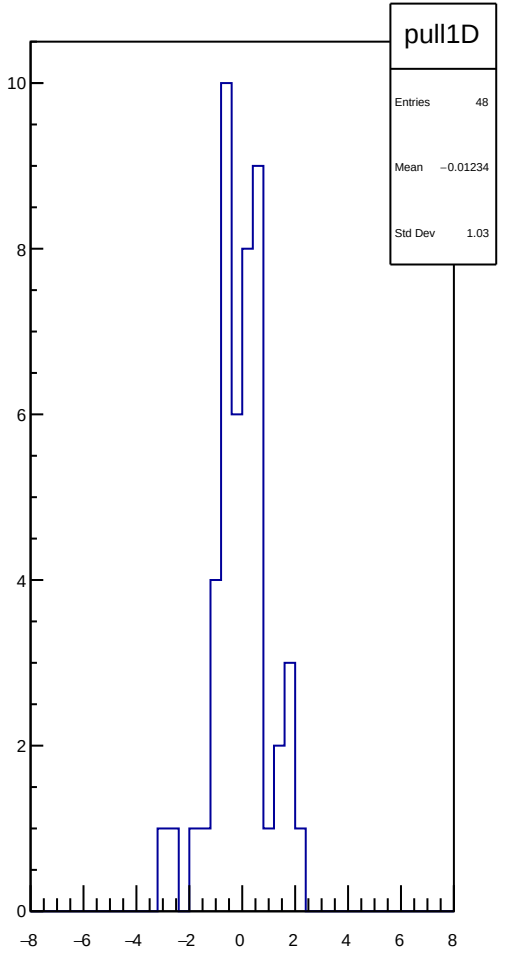

asym_atl_dd_correction_rms vs run
χ² / ndf 1.496e+05 / 47
p0 178.2 ± 0.1963
350
300
250
200
150
100
50
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

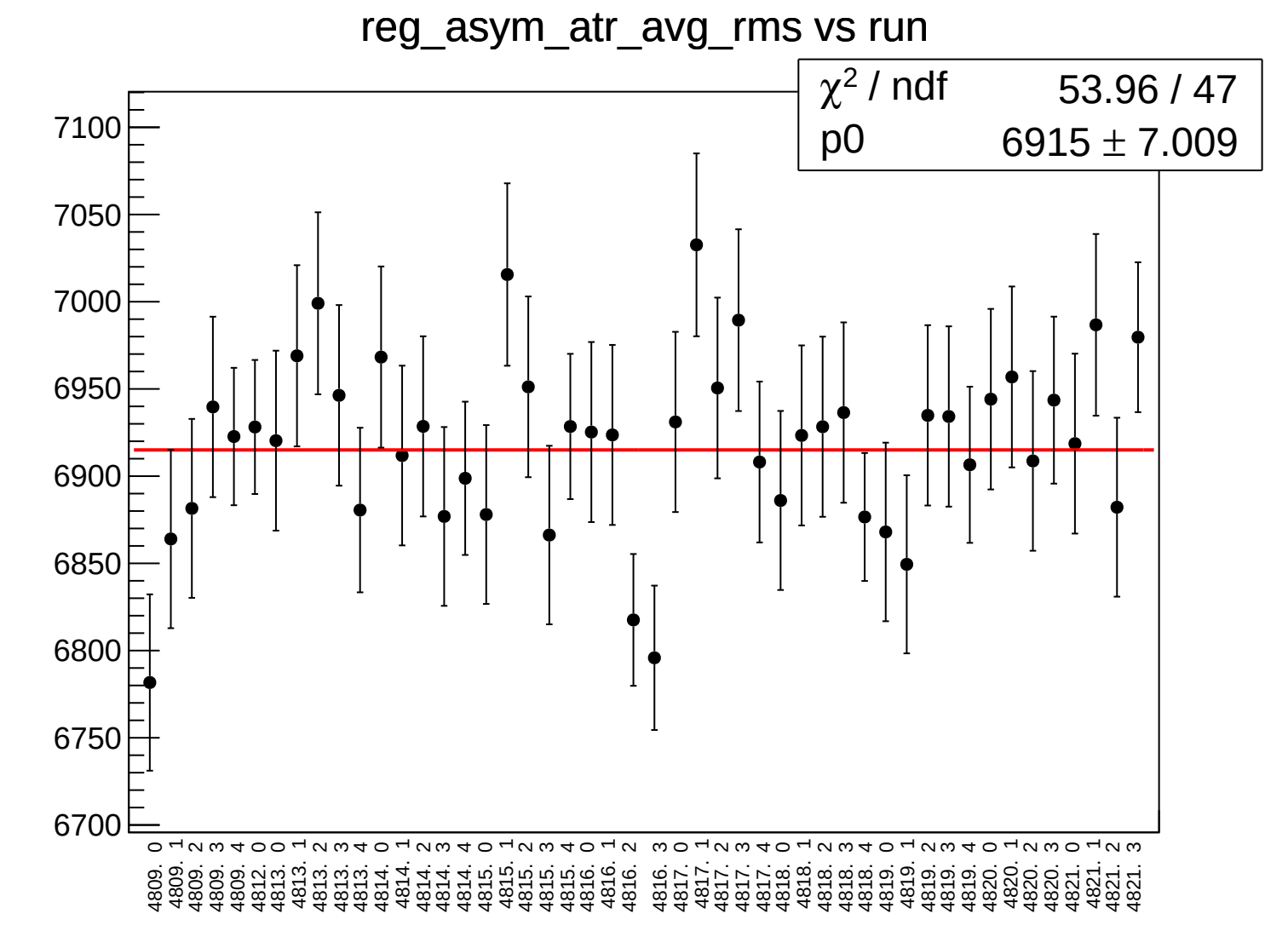

asym_atl_dd_mean vs run
×10^3
χ² / ndf 37.1 / 47
p0 −9615 ± 9675
200
150
100
50
0
−50
−100
−150
−200
−250
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 231.7
Std Dev 211.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

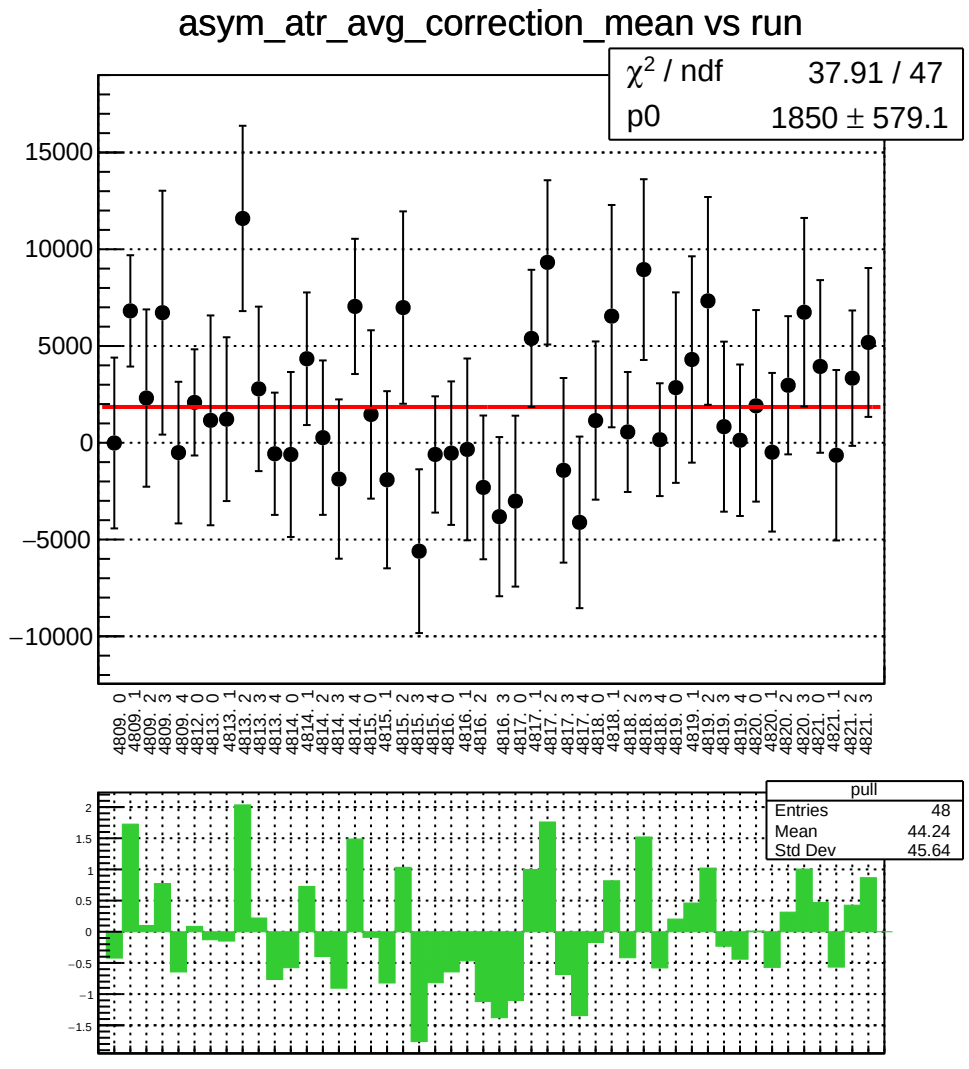

pull1D
Entries 48
Mean 0.01191
Std Dev 0.8791
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

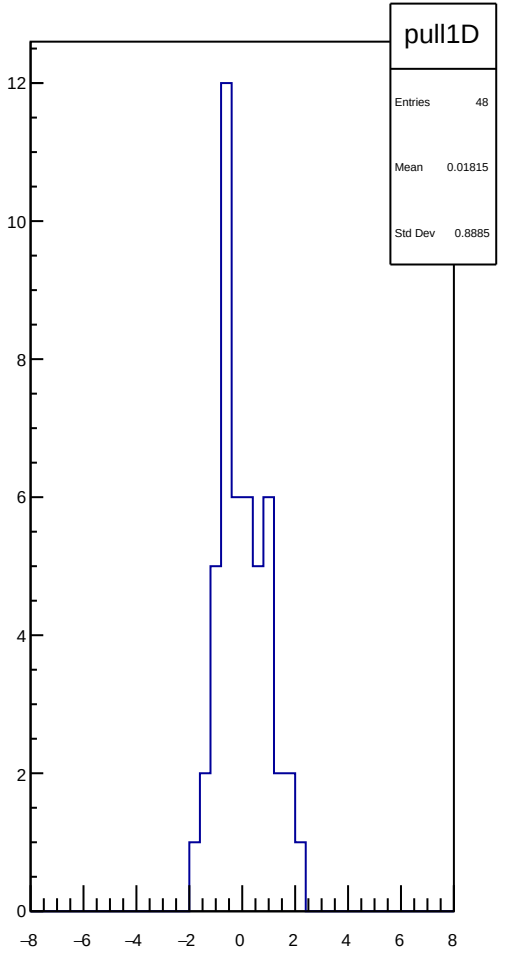

asym_atl_dd_rms vs run
χ² / ndf 41.98 / 47
p0 6749 ± 6.841
6900
6850
6800
6750
6700
6650
6600
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

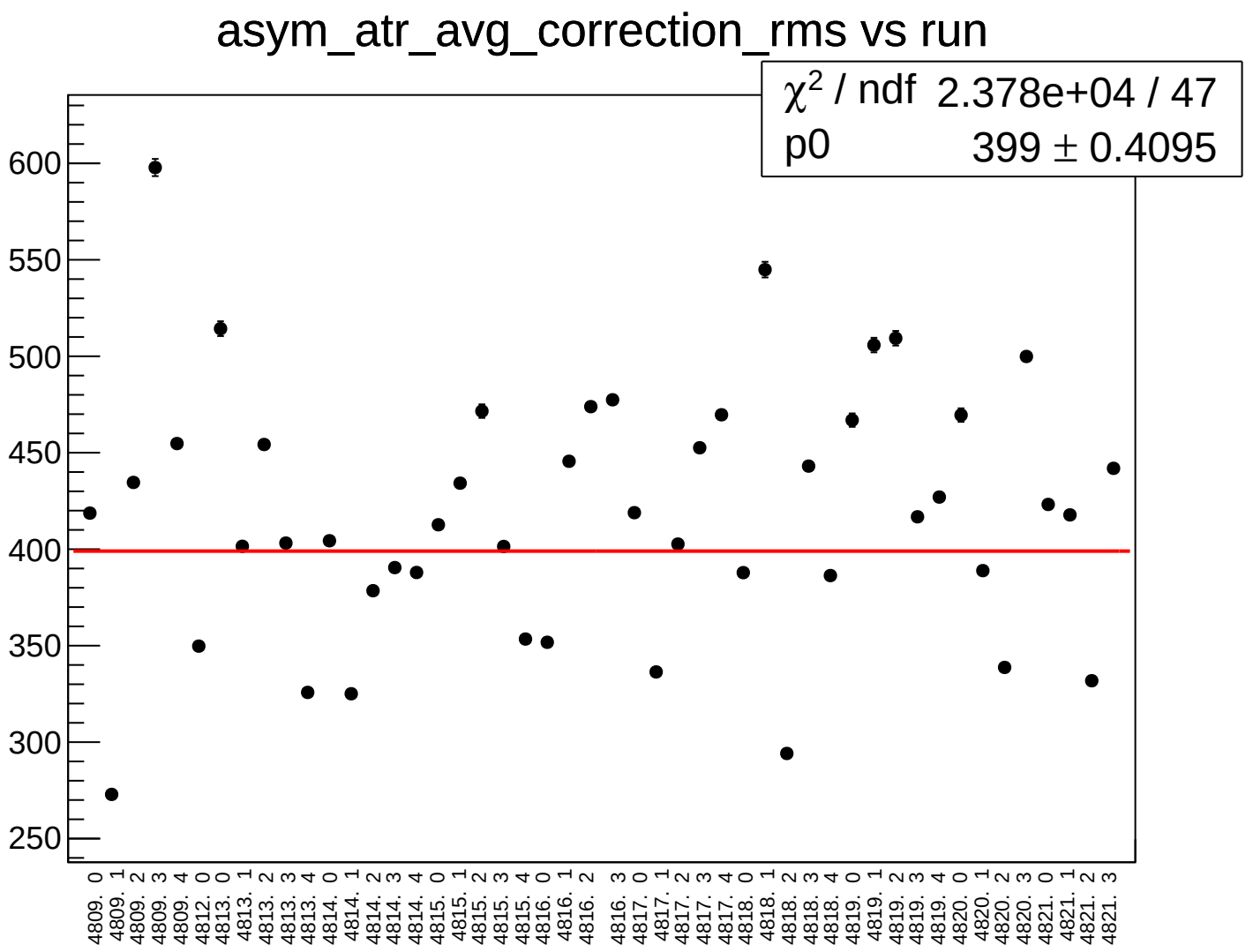

reg_asym_atr_avg_mean vs run
×10^3
χ^2 / ndf 50.96 / 47
p0 −6500 ± 9913
200
100
0
−100
−200
−300
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 202.8
Std Dev 187.1
2
1
0
−1
−2
−3

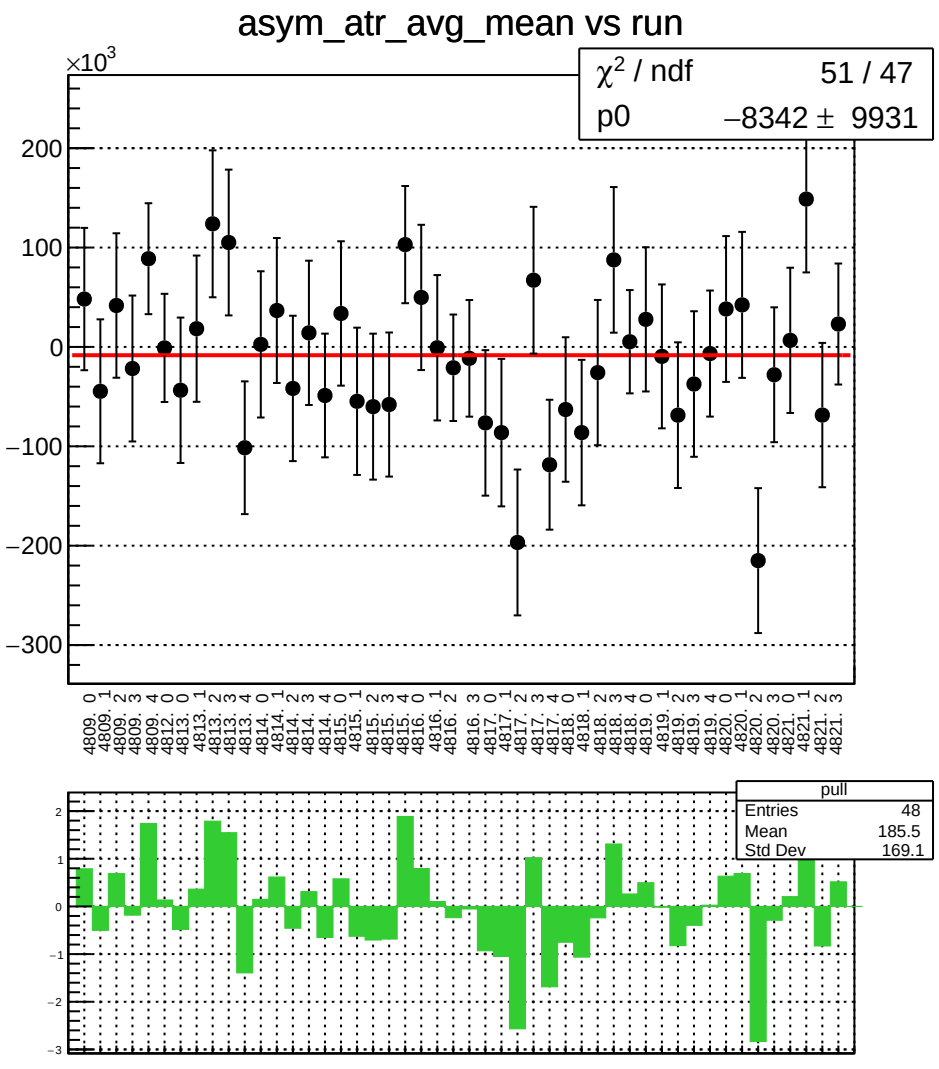

pull1D
Entries 48
Mean −0.01234
Std Dev 1.03
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

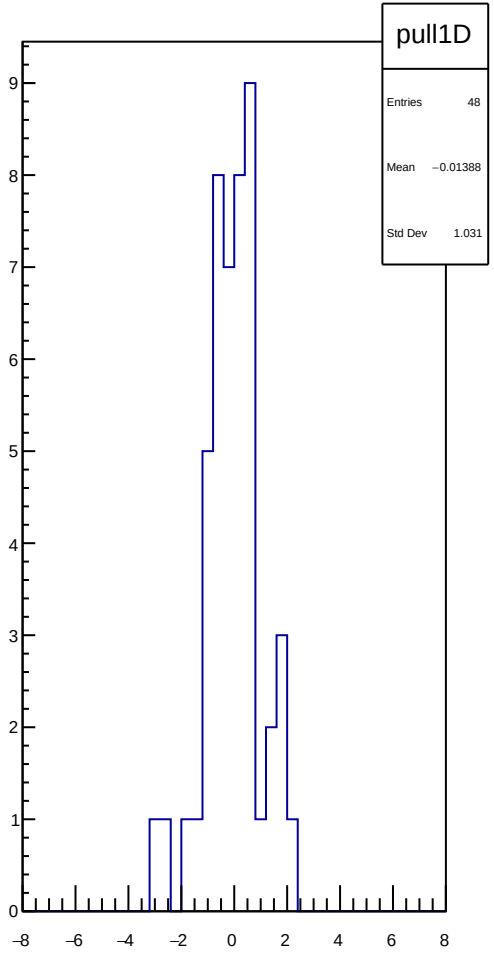

reg_asym_atr_avg_rms vs run
χ² / ndf 53.96 / 47
p0 6915 ± 7.009
7100
7050
7000
6950
6900
6850
6800
6750
6700
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

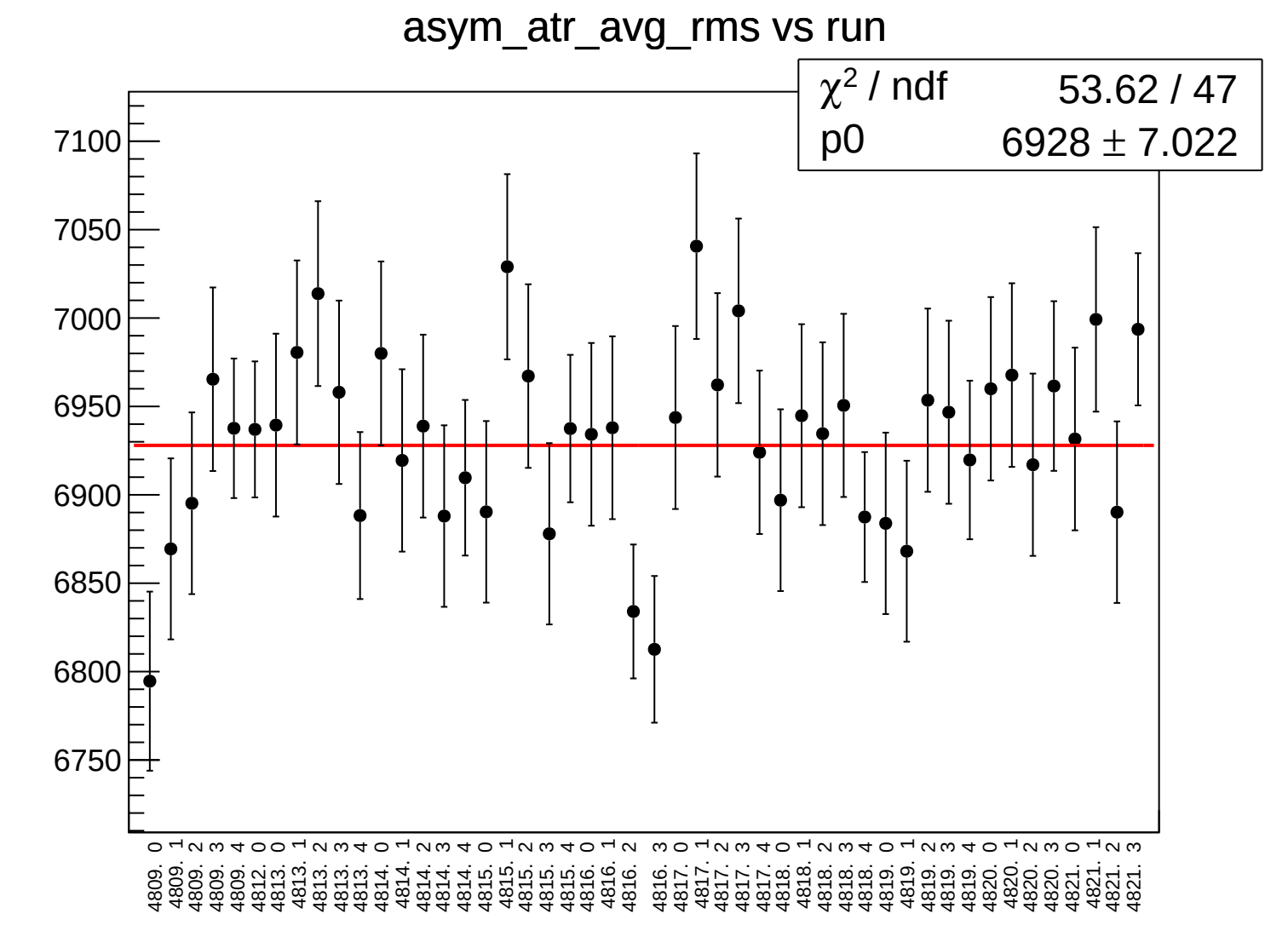

asym_atr_avg_correction_mean vs run
χ² / ndf 37.91 / 47
p0 1850 ± 579.1
15000
10000
5000
0
−5000
−10000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 44.24
Std Dev 45.64
2
1.5
1
0.5
0
−0.5
−1
−1.5

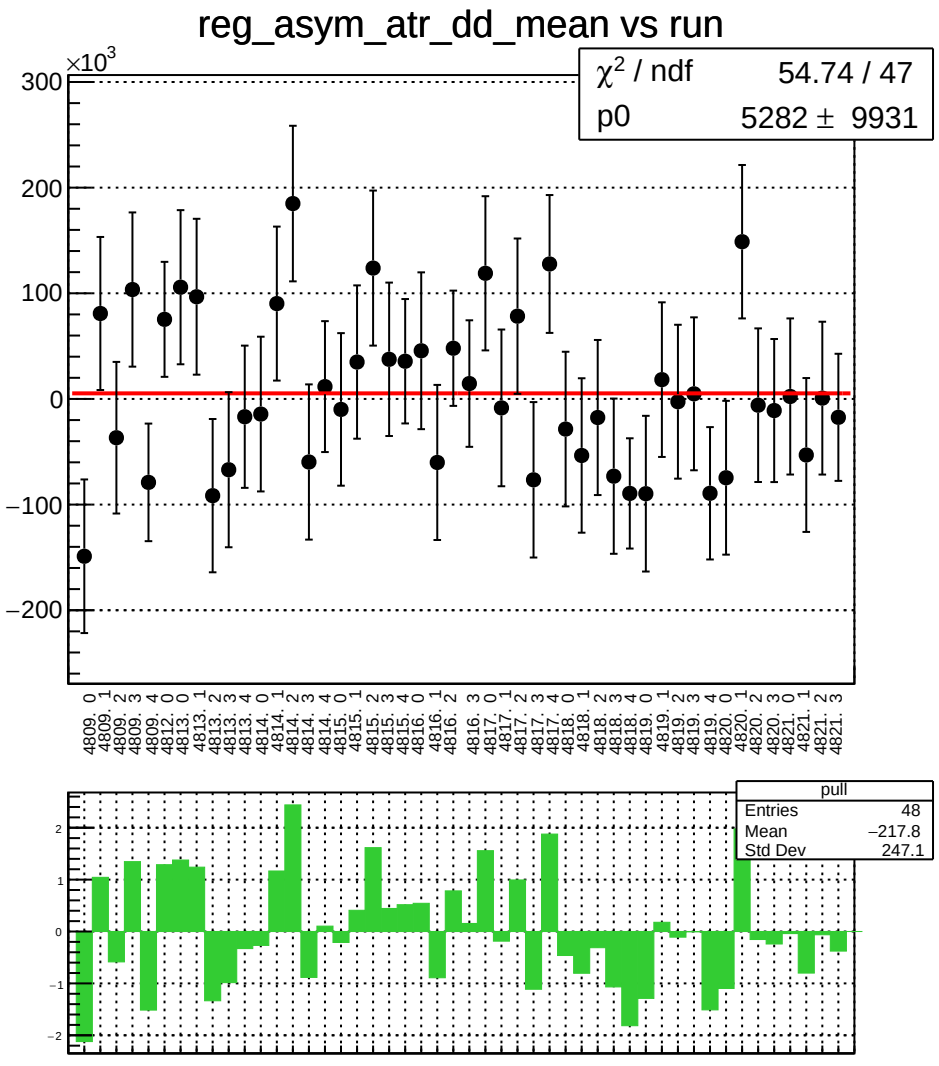

pull1D
Entries 48
Mean 0.01815
Std Dev 0.8885
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

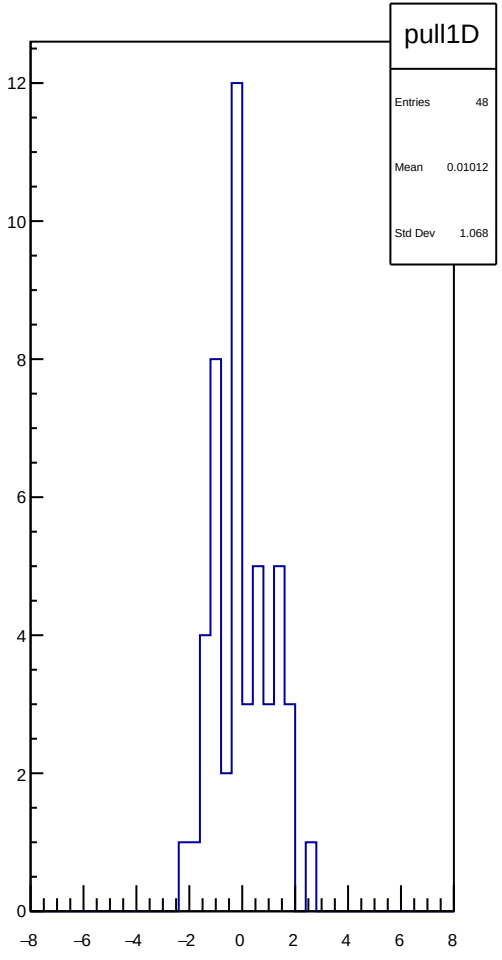

asym_atr_avg_correction_rms vs run
χ^2 / ndf 2.378e+04 / 47
p0 399 ± 0.4095
600
550
500
450
400
350
300
250
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

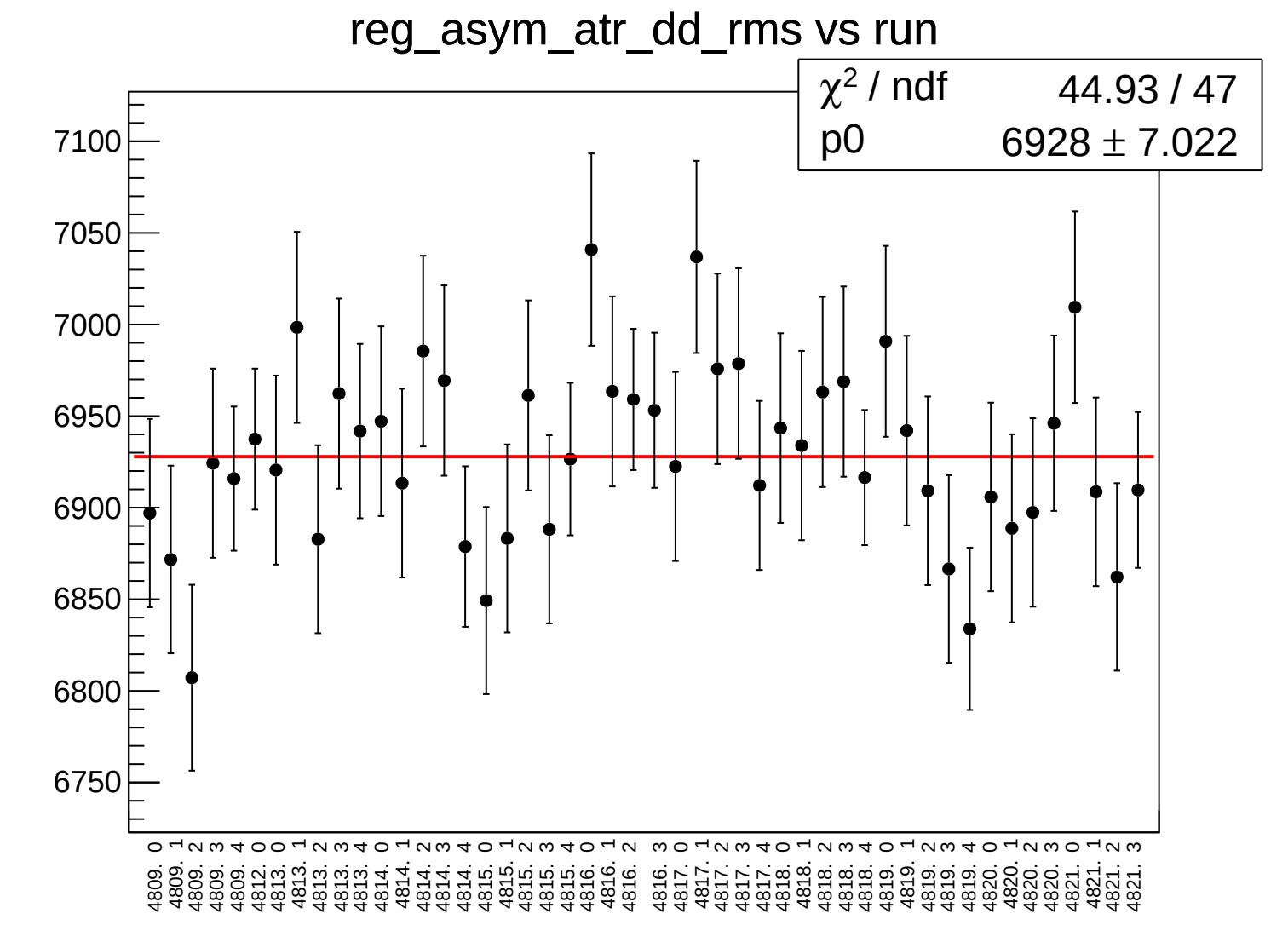

asym_atr_avg_mean vs run
×10^3
χ² / ndf 51 / 47
p0 −8342 ± 9931
200
100
0
−100
−200
−300
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 185.5
Std Dev 169.1
2
1
0
−1
−2
−3

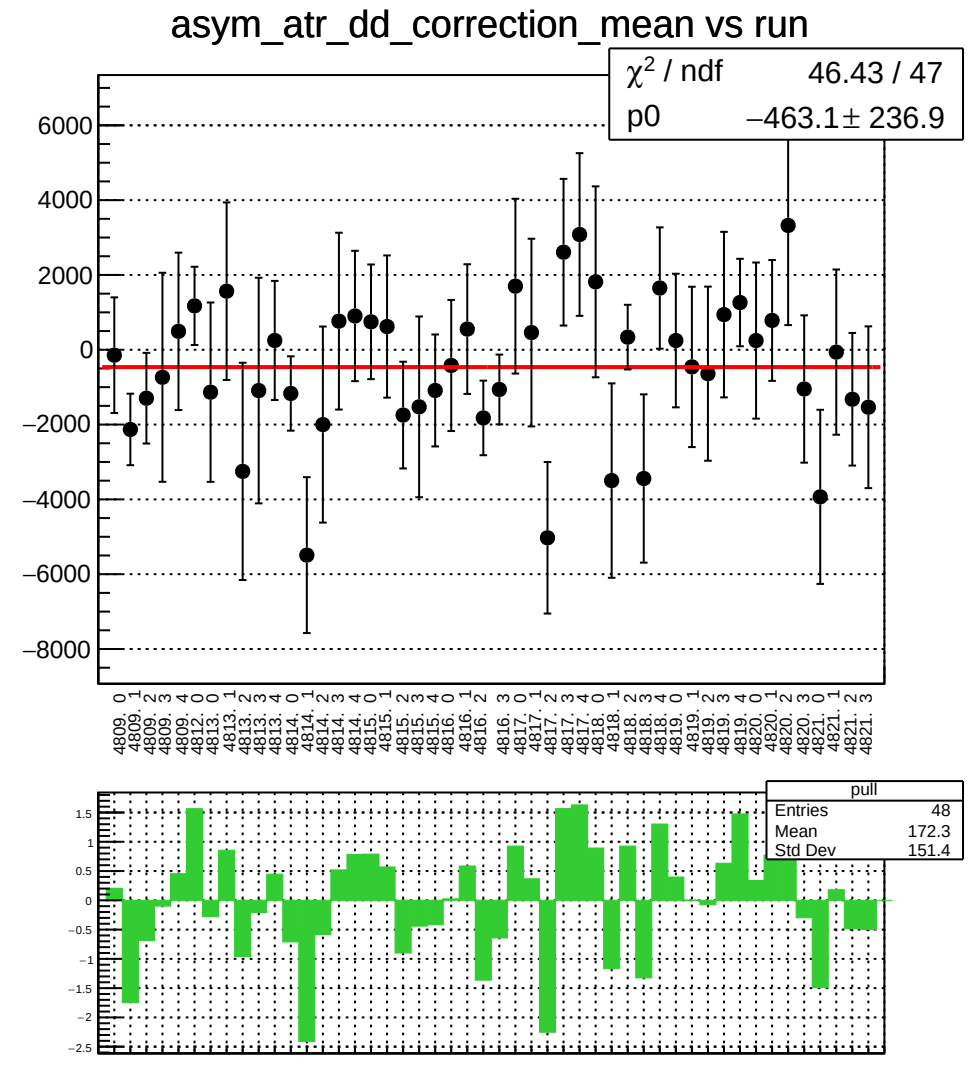

pull1D
Entries 48
Mean −0.01388
Std Dev 1.031
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

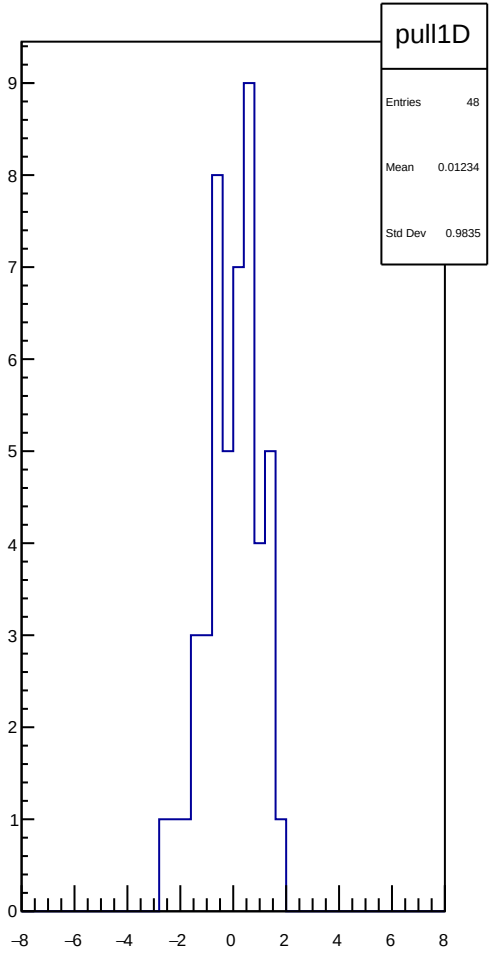

asym_atr_avg_rms vs run
χ² / ndf 53.62 / 47
p0 6928 ± 7.022
7100
7050
7000
6950
6900
6850
6800
6750
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

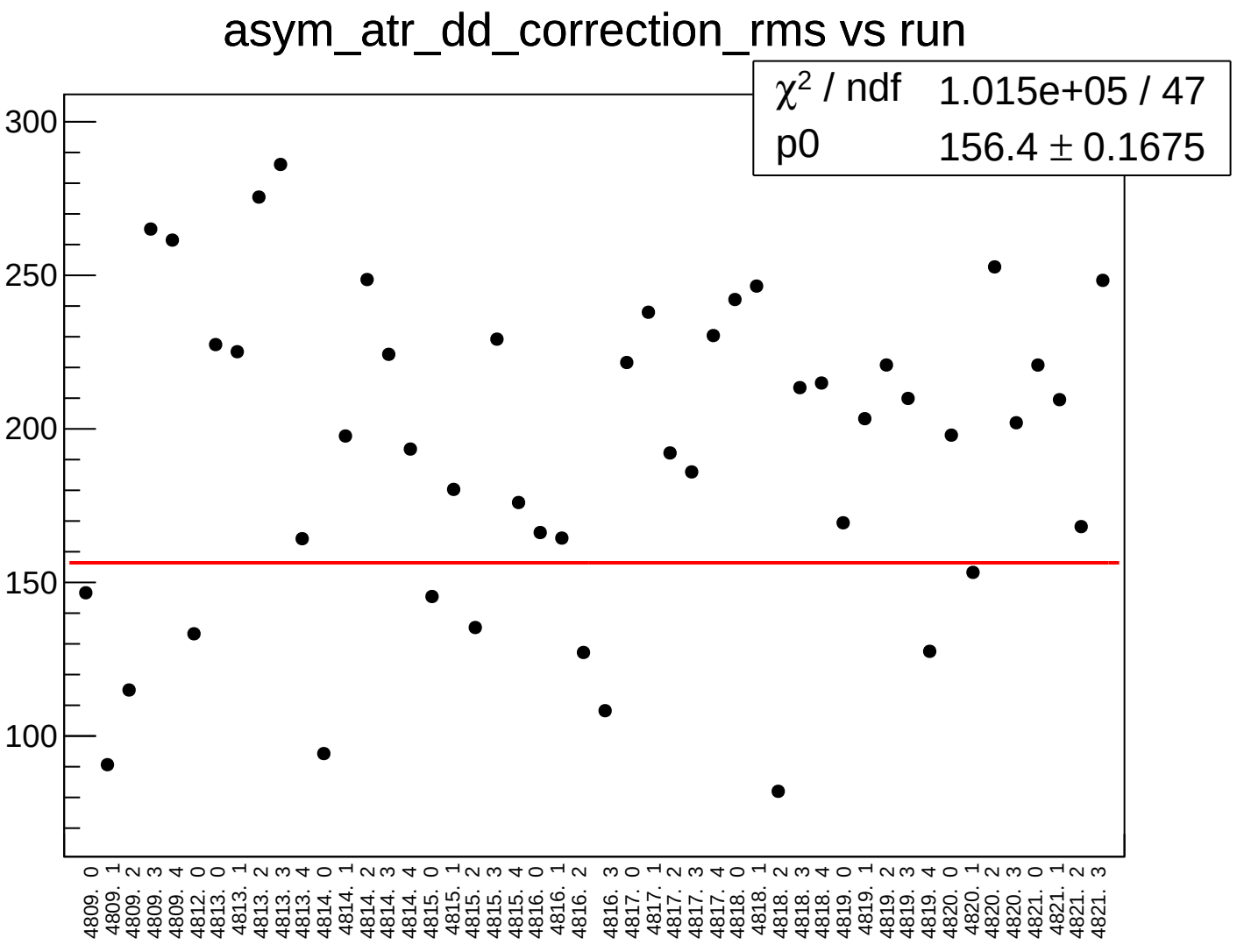

reg_asym_atr_dd_mean vs run
×10^3
χ^2 / ndf 54.74 / 47
p0 5282 ± 9931
300
200
100
0
−100
−200
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean −217.8
Std Dev 247.1
2
1
0
−1
−2


pull1D
Entries 48
Mean 0.01012
Std Dev 1.068
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atr_dd_rms vs run
χ² / ndf 44.93 / 47
p0 6928 ± 7.022
7100
7050
7000
6950
6900
6850
6800
6750
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3


asym_atr_dd_correction_mean vs run
χ² / ndf 46.43 / 47
p0 −463.1 ± 236.9
6000
4000
2000
0
−2000
−4000
−6000
−8000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 172.3
Std Dev 151.4
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 48
Mean 0.01234
Std Dev 0.9835
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr_dd_correction_rms vs run
χ² / ndf 1.015e+05 / 47
p0 156.4 ± 0.1675
300
250
200
150
100
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
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4816. 2
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4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
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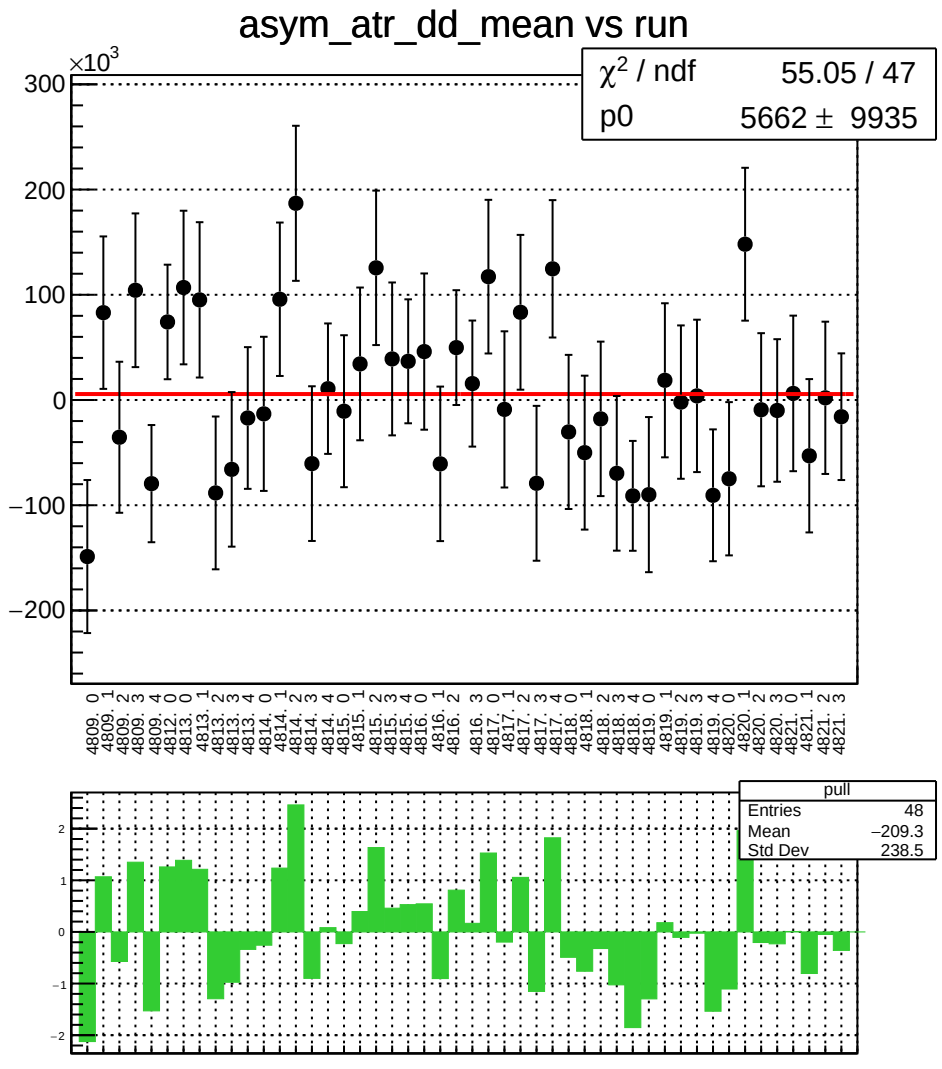
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3


asym_atr_dd_mean vs run
×10^3
χ² / ndf 55.05 / 47
p0 5662 ± 9935
300
200
100
0
−100
−200
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
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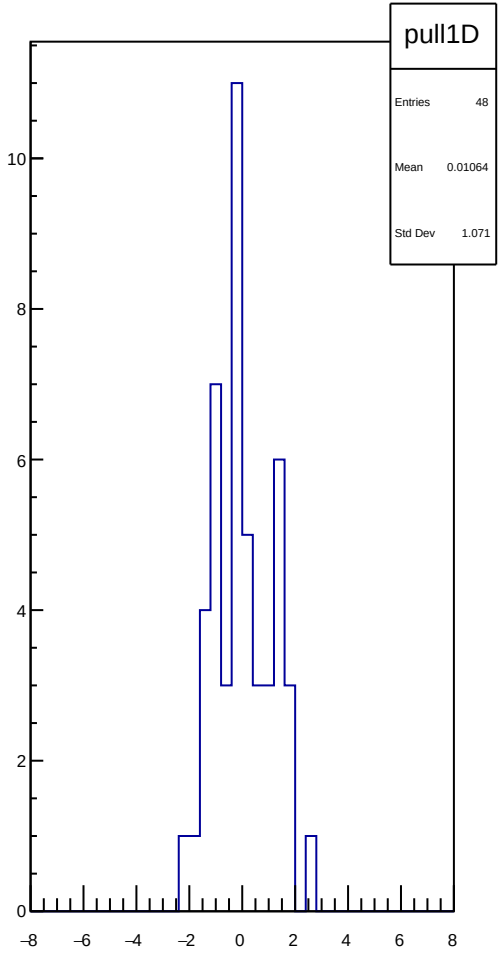
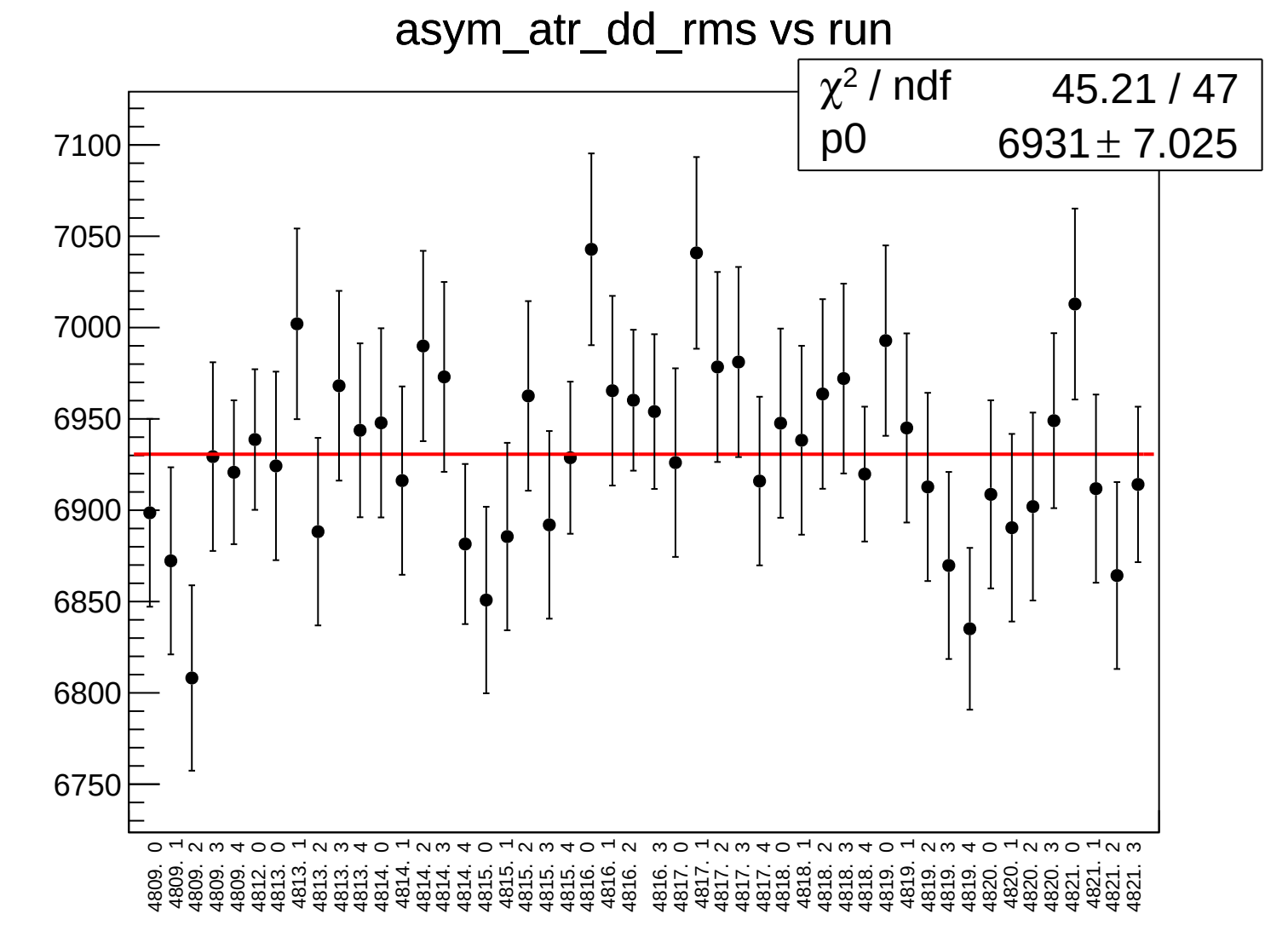
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean −209.3
Std Dev 238.5
2
1
0
−1
−2


pull1D
Entries 48
Mean 0.01064
Std Dev 1.071
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr_dd_rms vs run
χ² / ndf 45.21 / 47
p0 6931 ± 7.025
7100
7050
7000
6950
6900
6850
6800
6750
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
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4815. 2
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4819. 4
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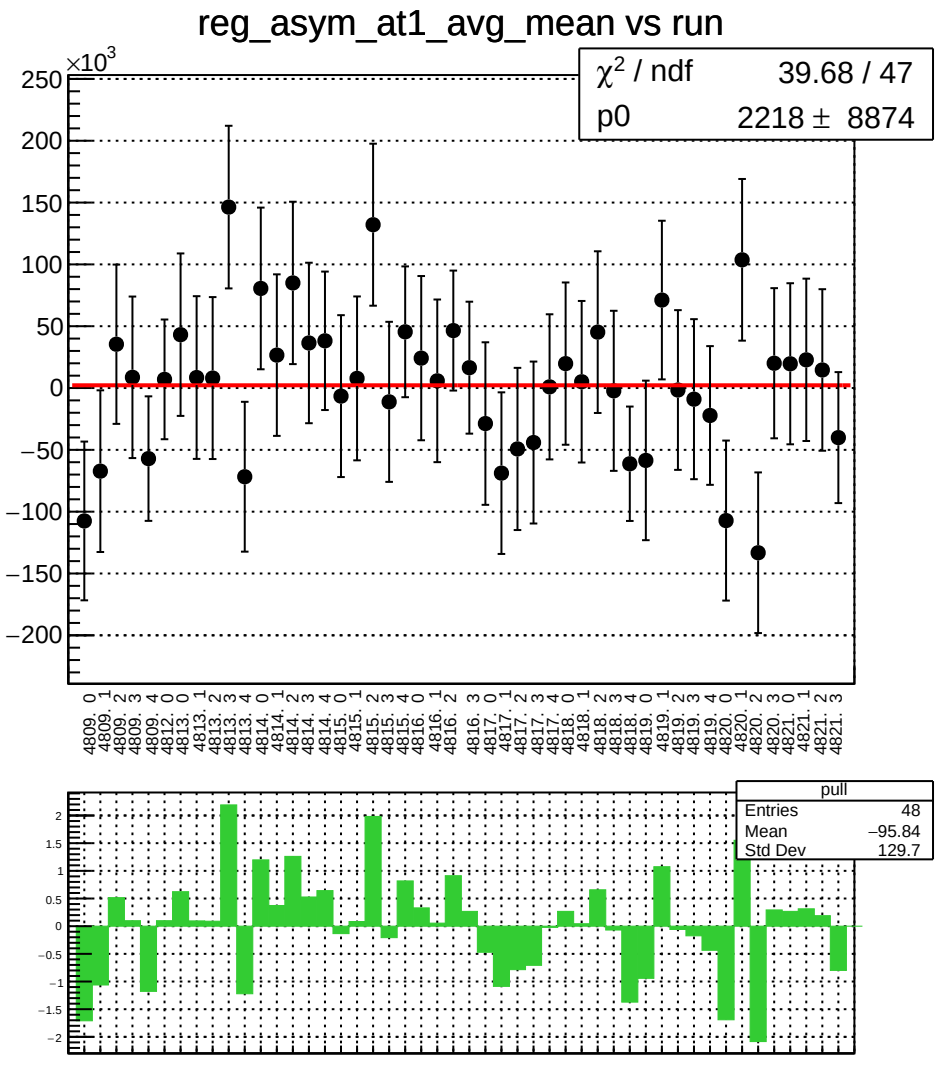
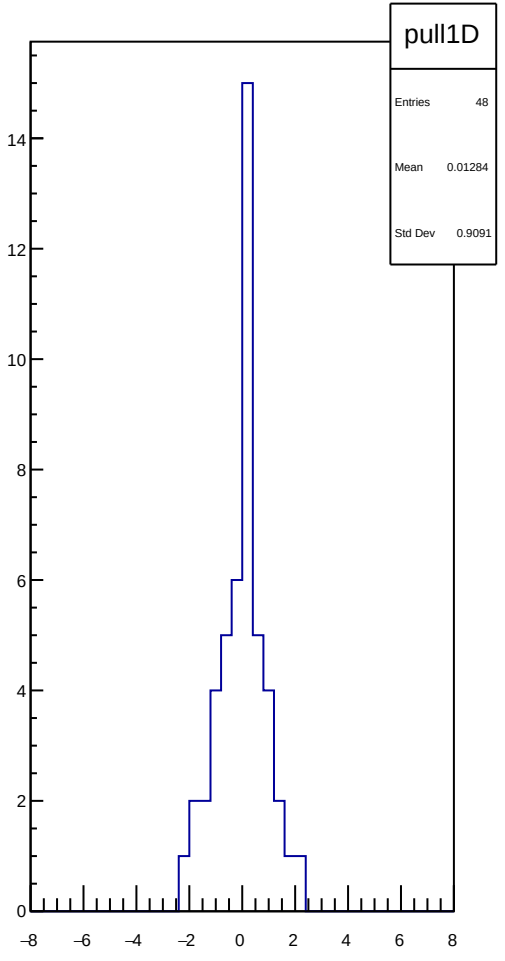
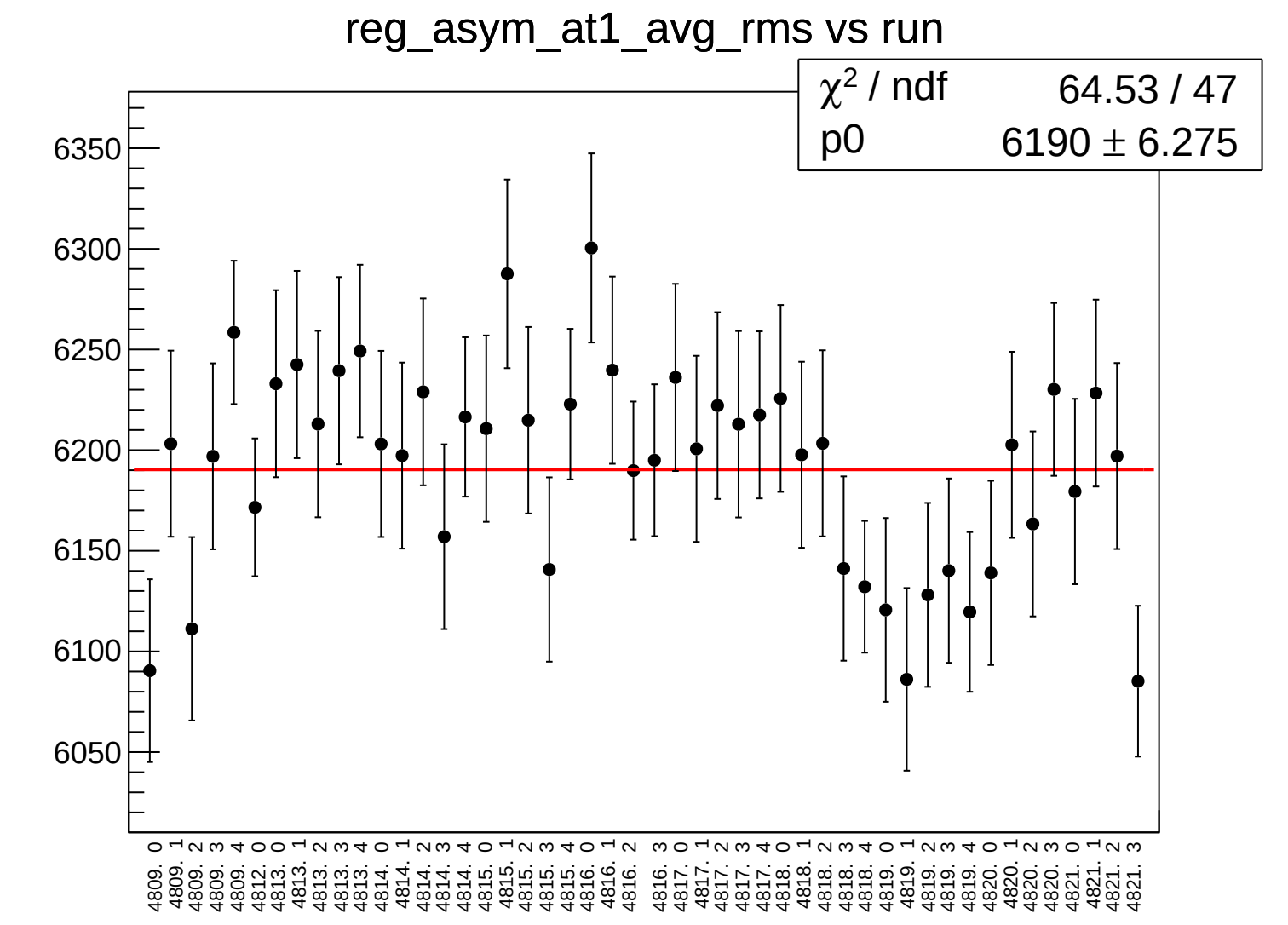
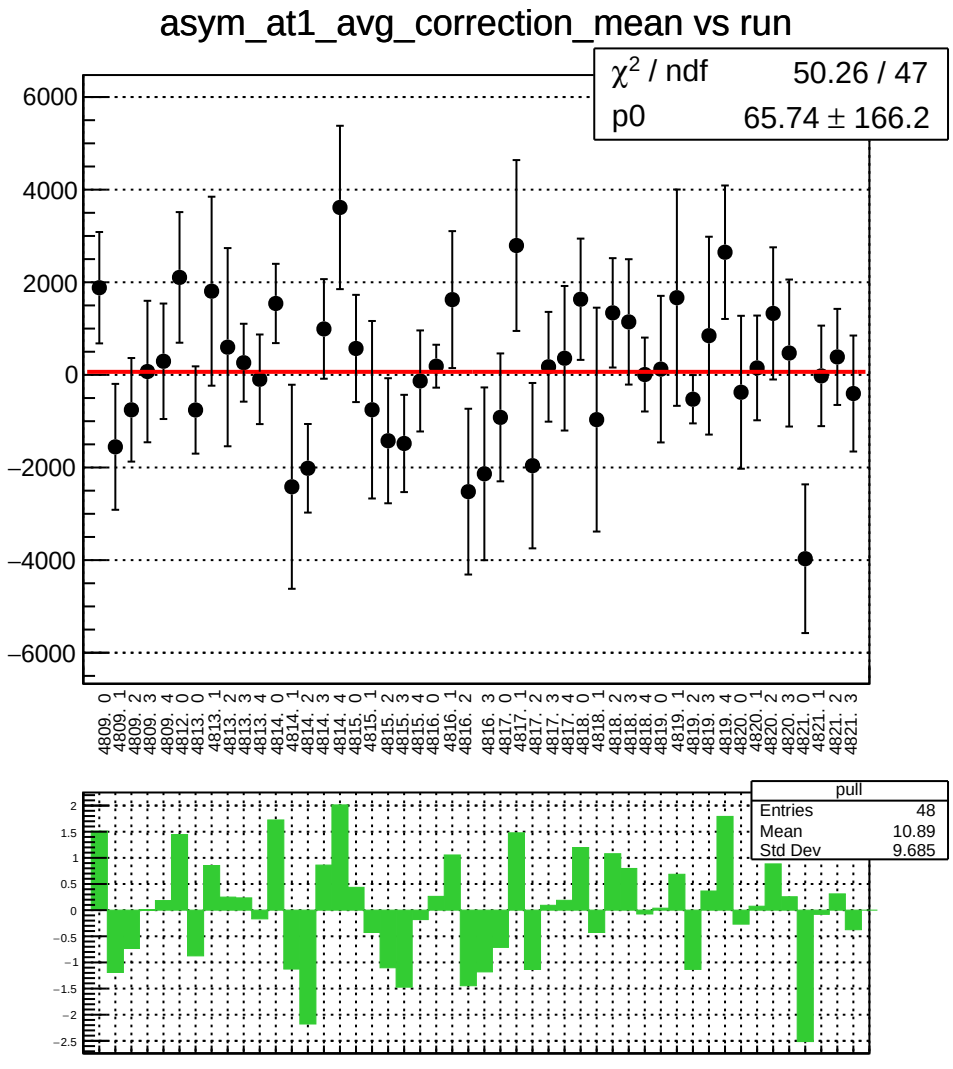
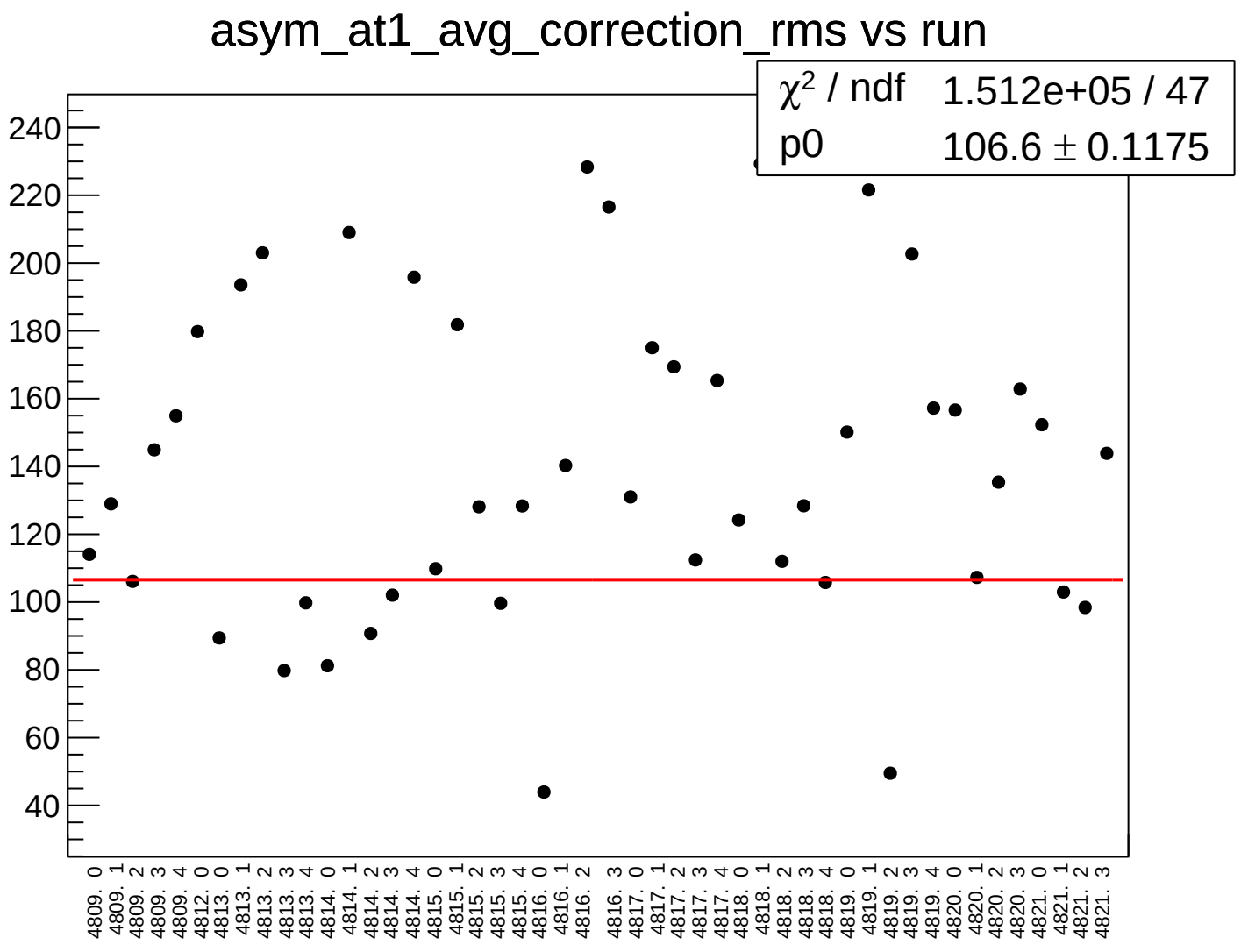
4821. 1
4821. 2
4821. 3

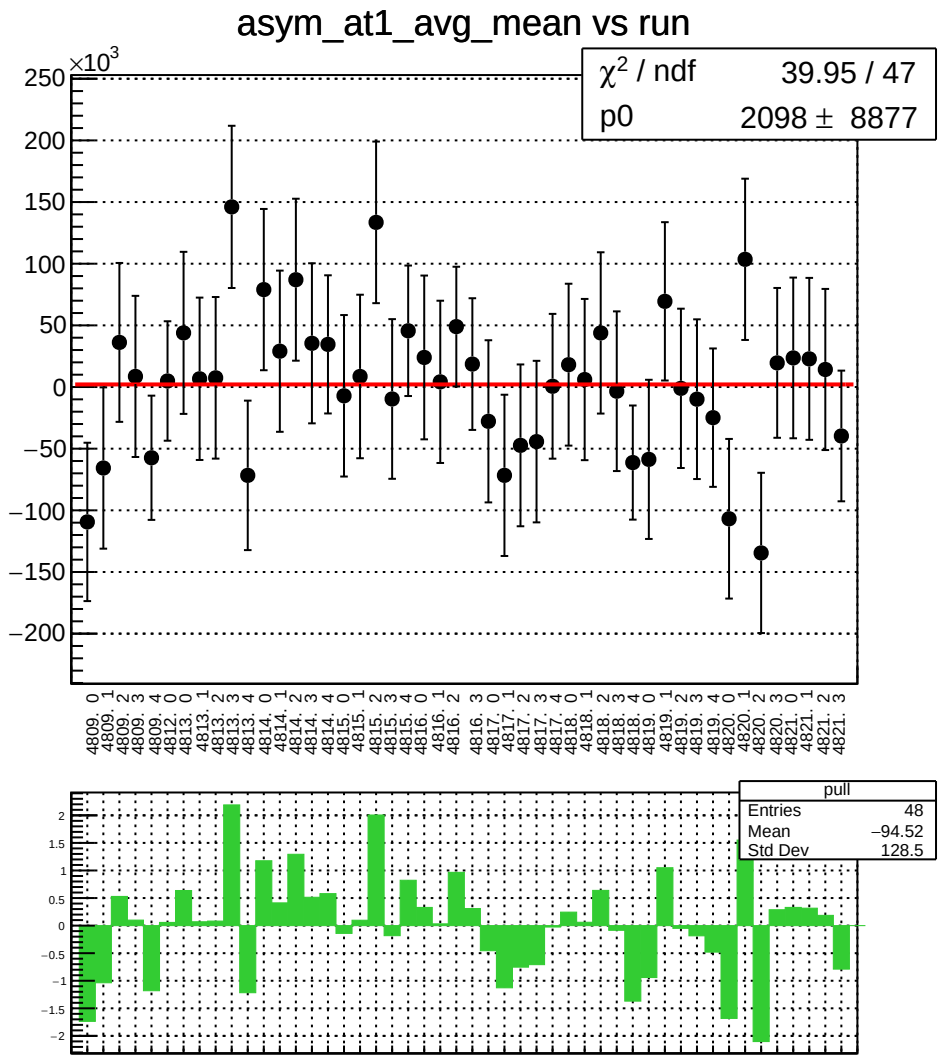

reg_asym_at1_avg_mean vs run
×10^3
χ^2 / ndf 39.68 / 47
p0 2218 ± 8874
pull
Entries 48
Mean −95.84
Std Dev 129.7

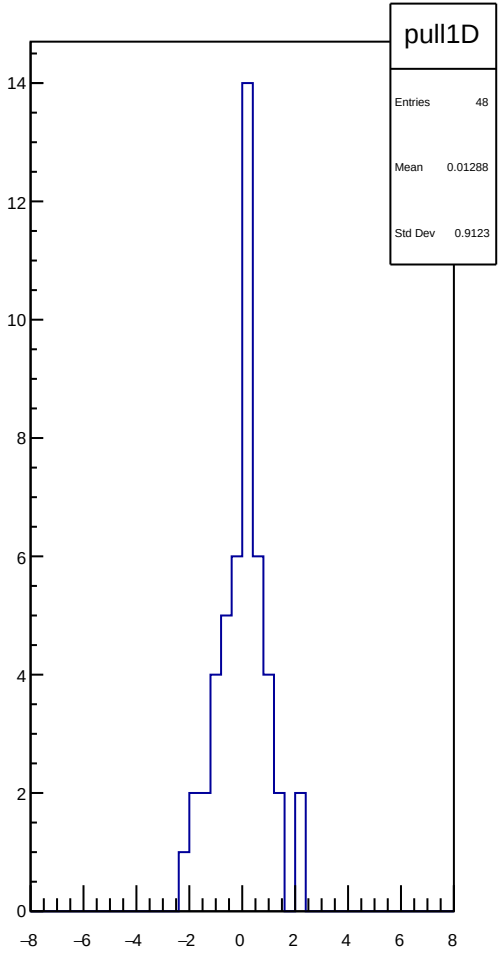

pull1D
Entries 48
Mean 0.01284
Std Dev 0.9091

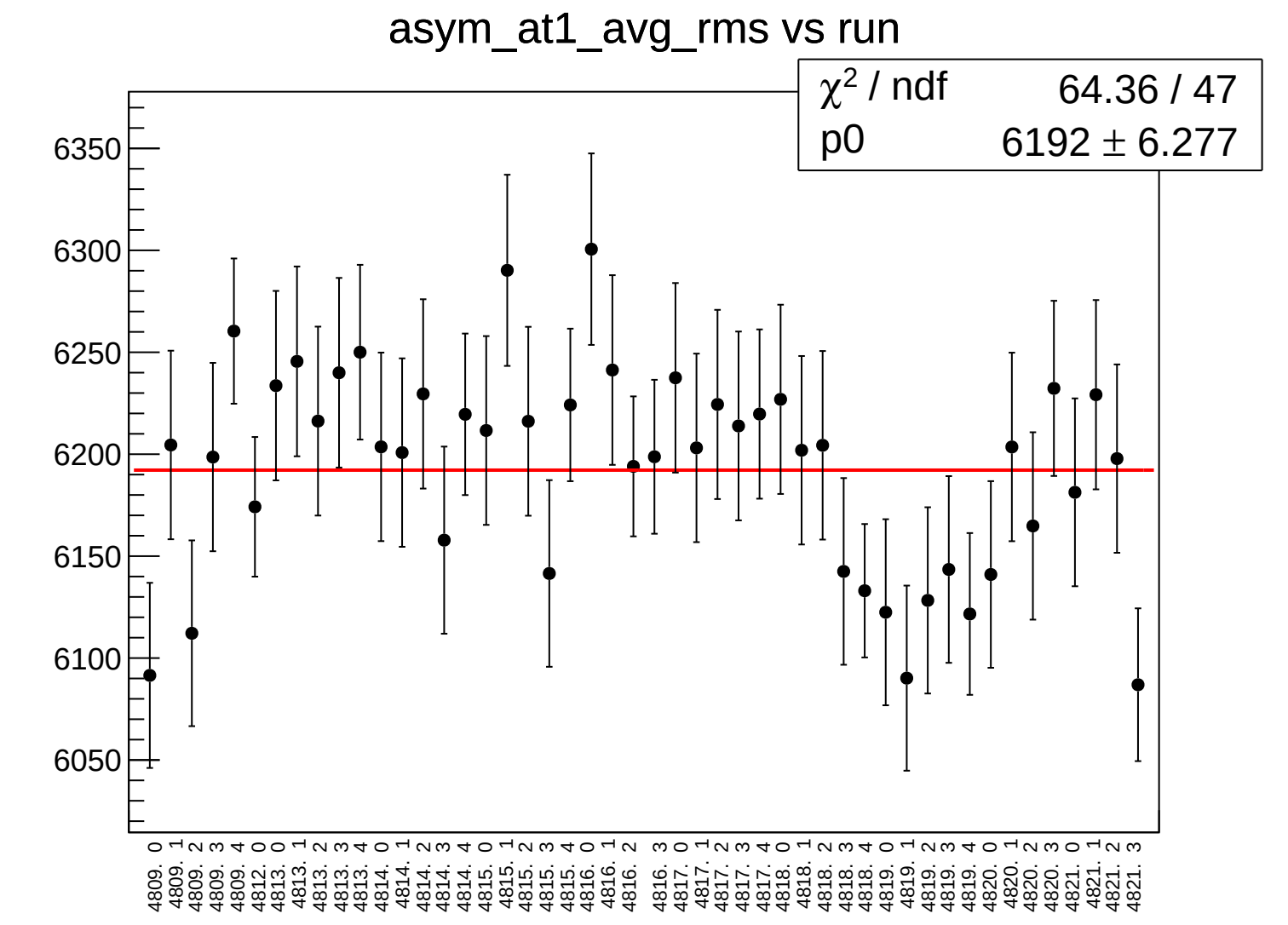

reg_asym_at1_avg_rms vs run
χ² / ndf 64.53 / 47
p0 6190 ± 6.275
6350
6300
6250
6200
6150
6100
6050
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

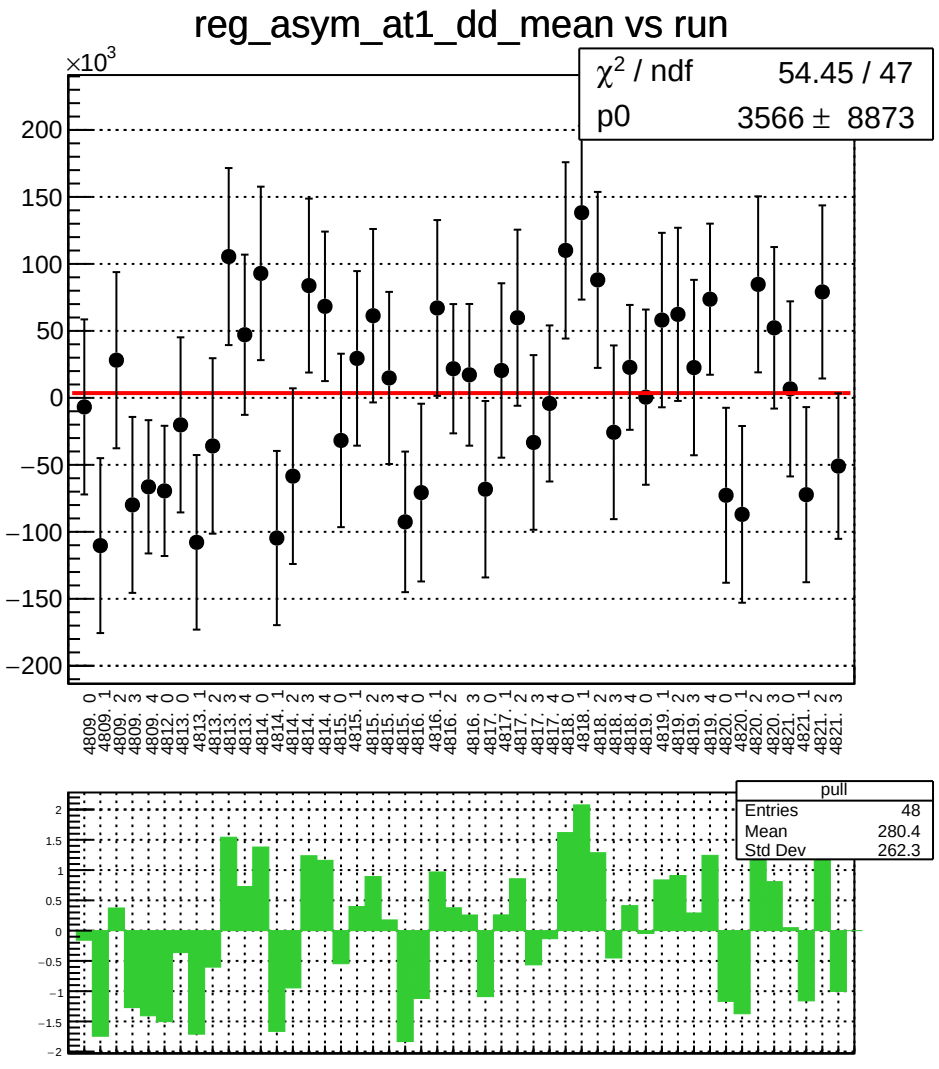

asym_at1_avg_correction_mean vs run
χ² / ndf 50.26 / 47
p0 65.74 ± 166.2
6000
4000
2000
0
−2000
−4000
−6000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 10.89
Std Dev 9.685
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 48
Mean 0.02673
Std Dev 1.023
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

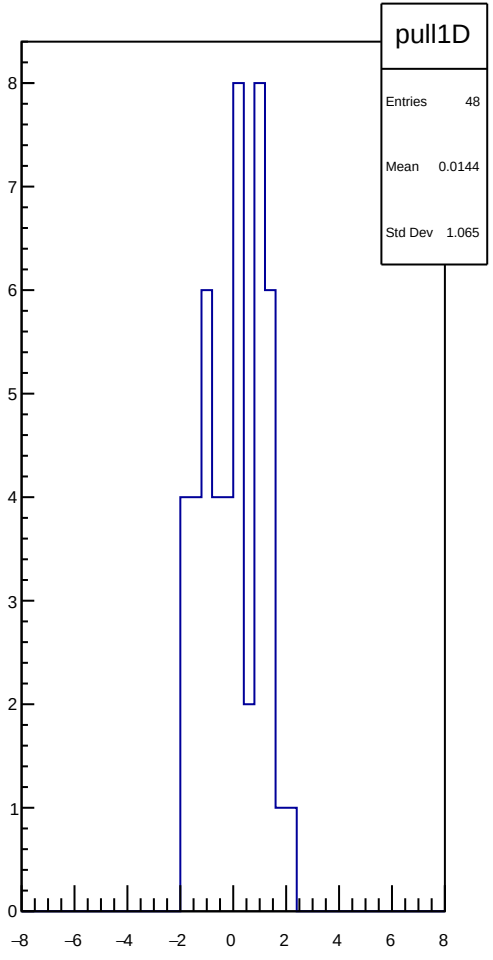

asym_at1_avg_correction_rms vs run
χ² / ndf 1.512e+05 / 47
p0 106.6 ± 0.1175
240
220
200
180
160
140
120
100
80
60
40
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

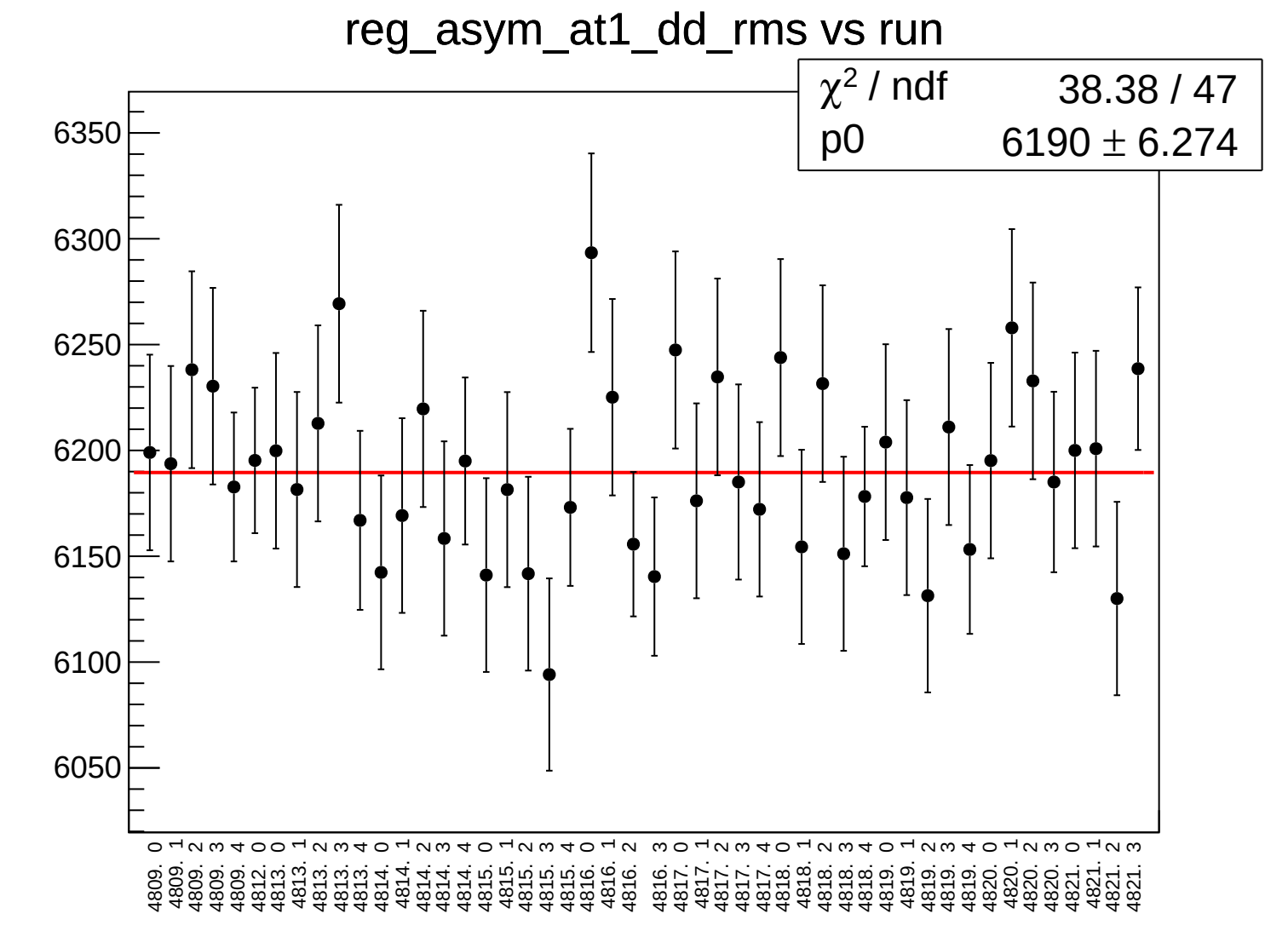

asym_at1_avg_mean vs run
×10^3
χ² / ndf 39.95 / 47
p0 2098 ± 8877
pull
Entries 48
Mean −94.52
Std Dev 128.5

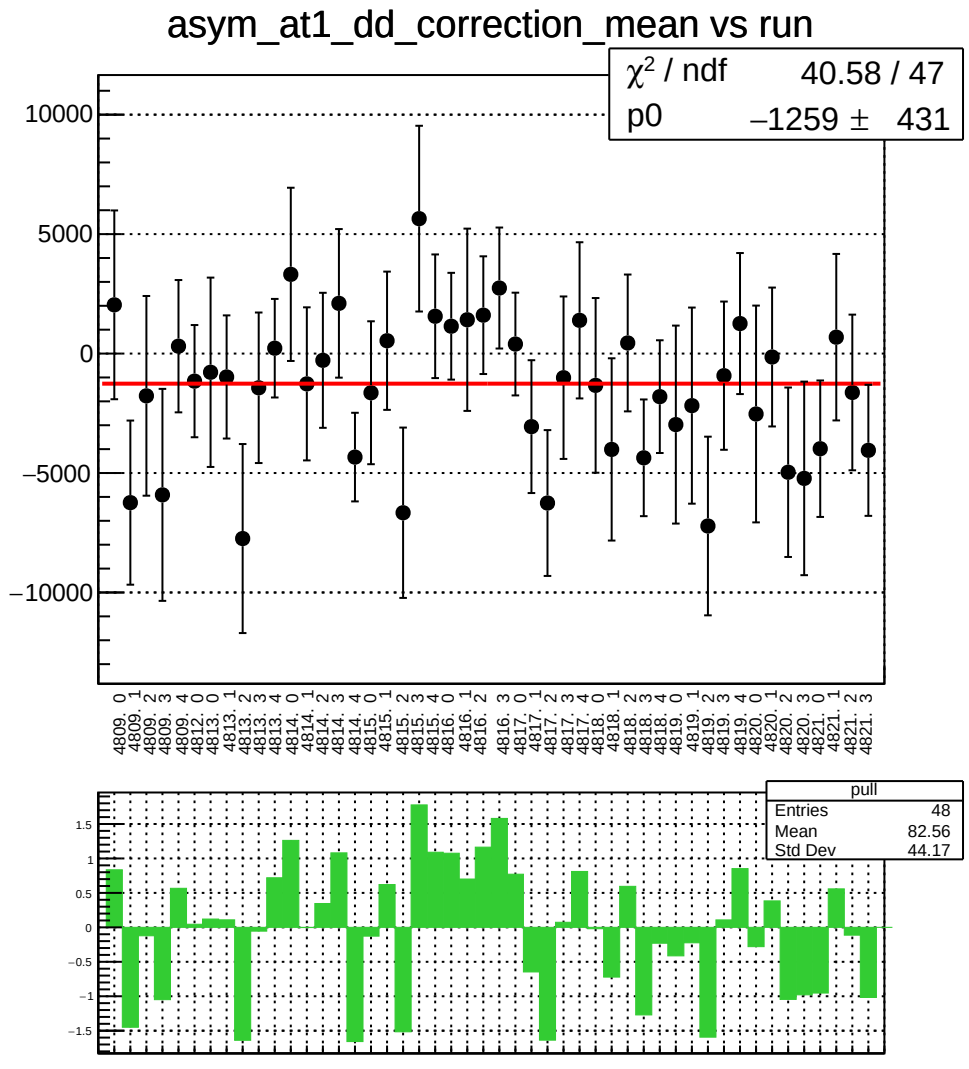

pull1D
Entries 48
Mean 0.01288
Std Dev 0.9123

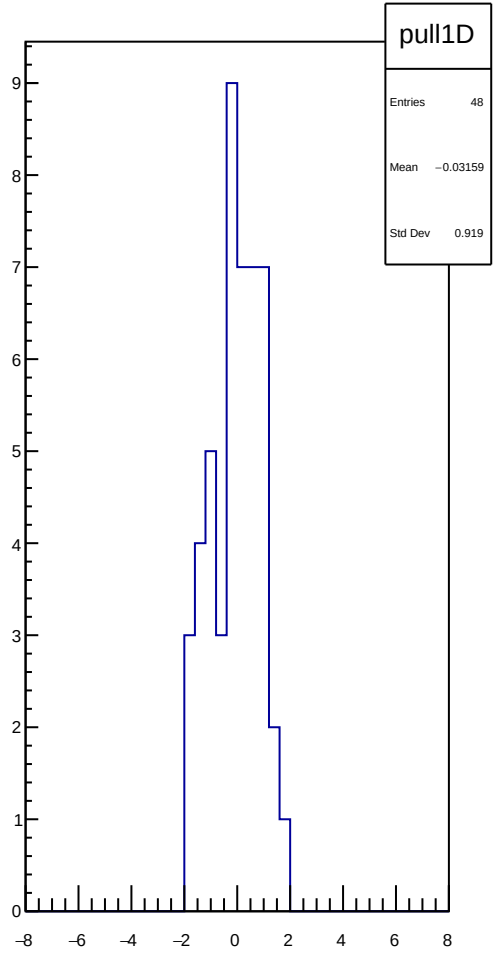

asym_at1_avg_rms vs run
χ² / ndf 64.36 / 47
p0 6192 ± 6.277
6350
6300
6250
6200
6150
6100
6050
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

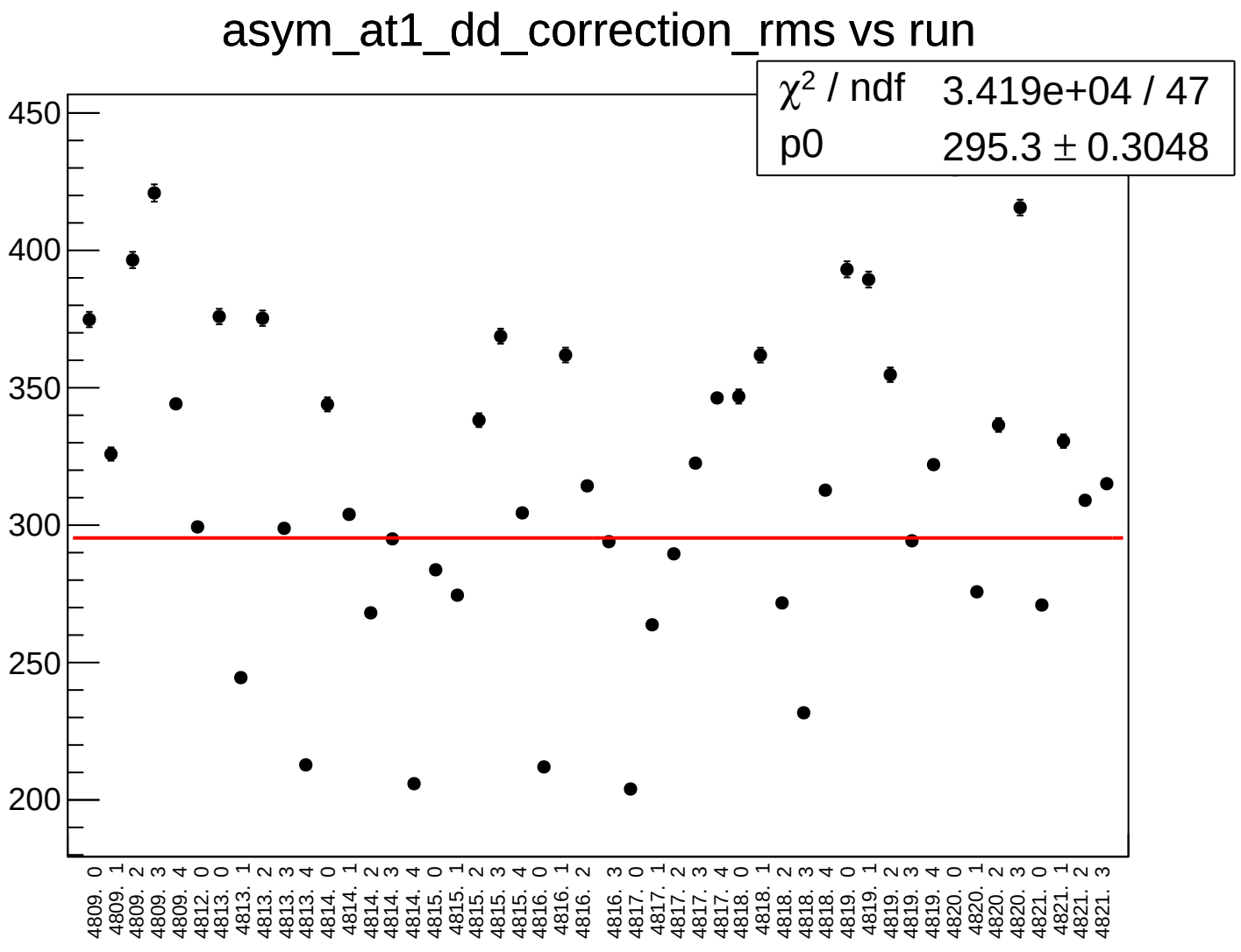

reg_asym_at1_dd_mean vs run
×10^3
χ² / ndf 54.45 / 47
p0 3566 ± 8873
200
150
100
50
0
−50
−100
−150
−200
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 280.4
Std Dev 262.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

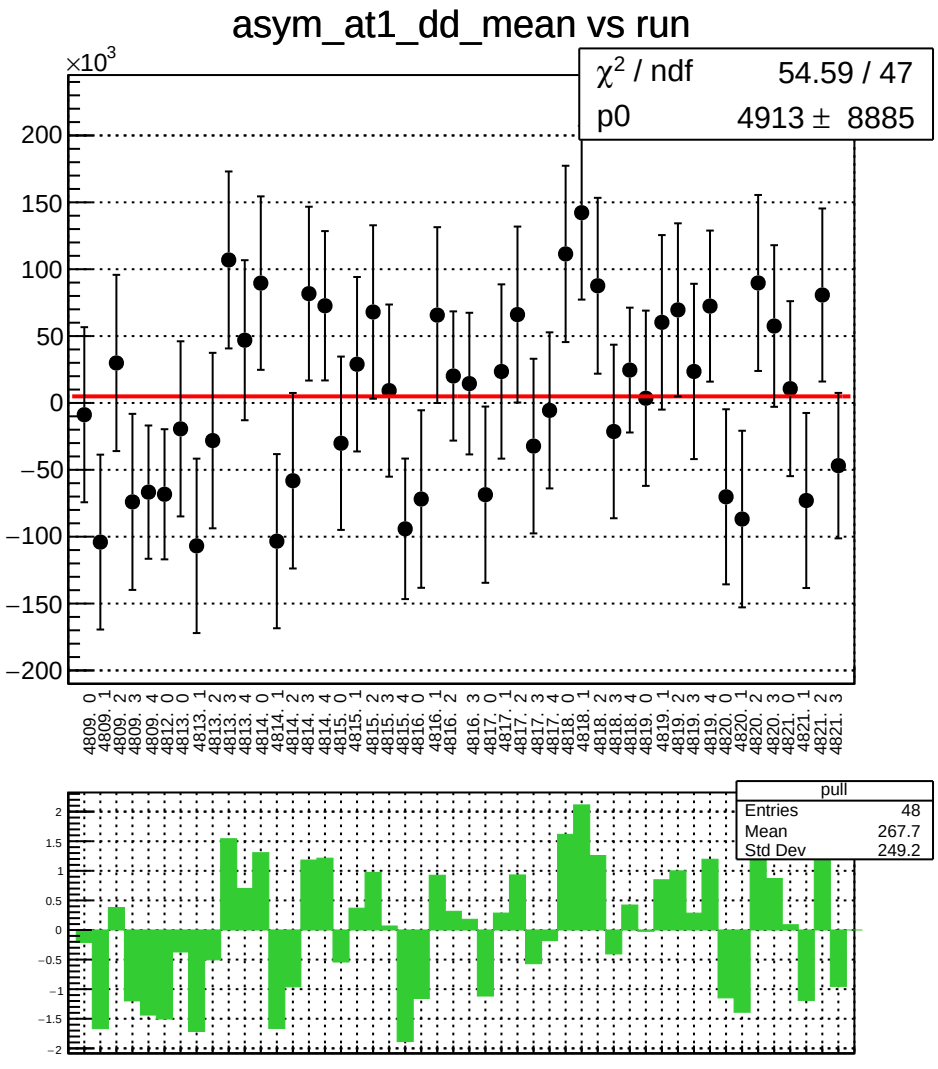

pull1D
Entries 48
Mean 0.0144
Std Dev 1.065
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

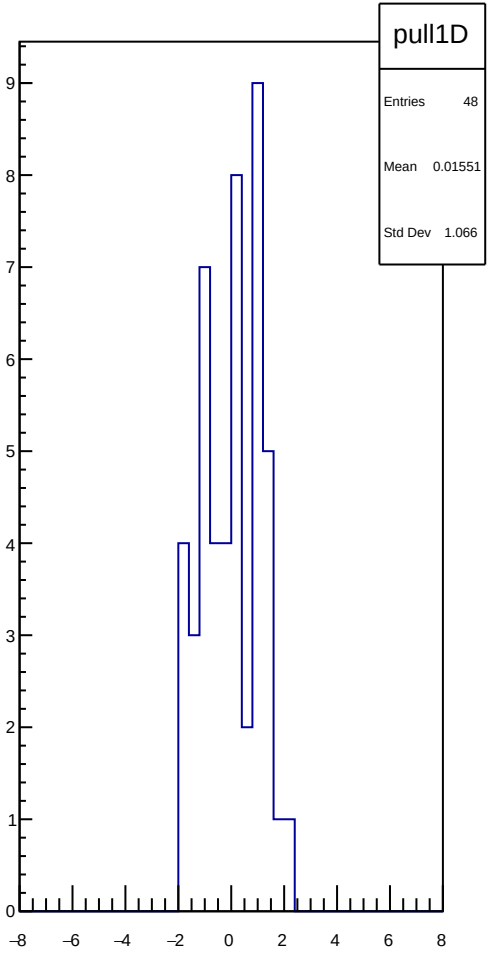

reg_asym_at1_dd_rms vs run
χ² / ndf 38.38 / 47
p0 6190 ± 6.274
6350
6300
6250
6200
6150
6100
6050
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

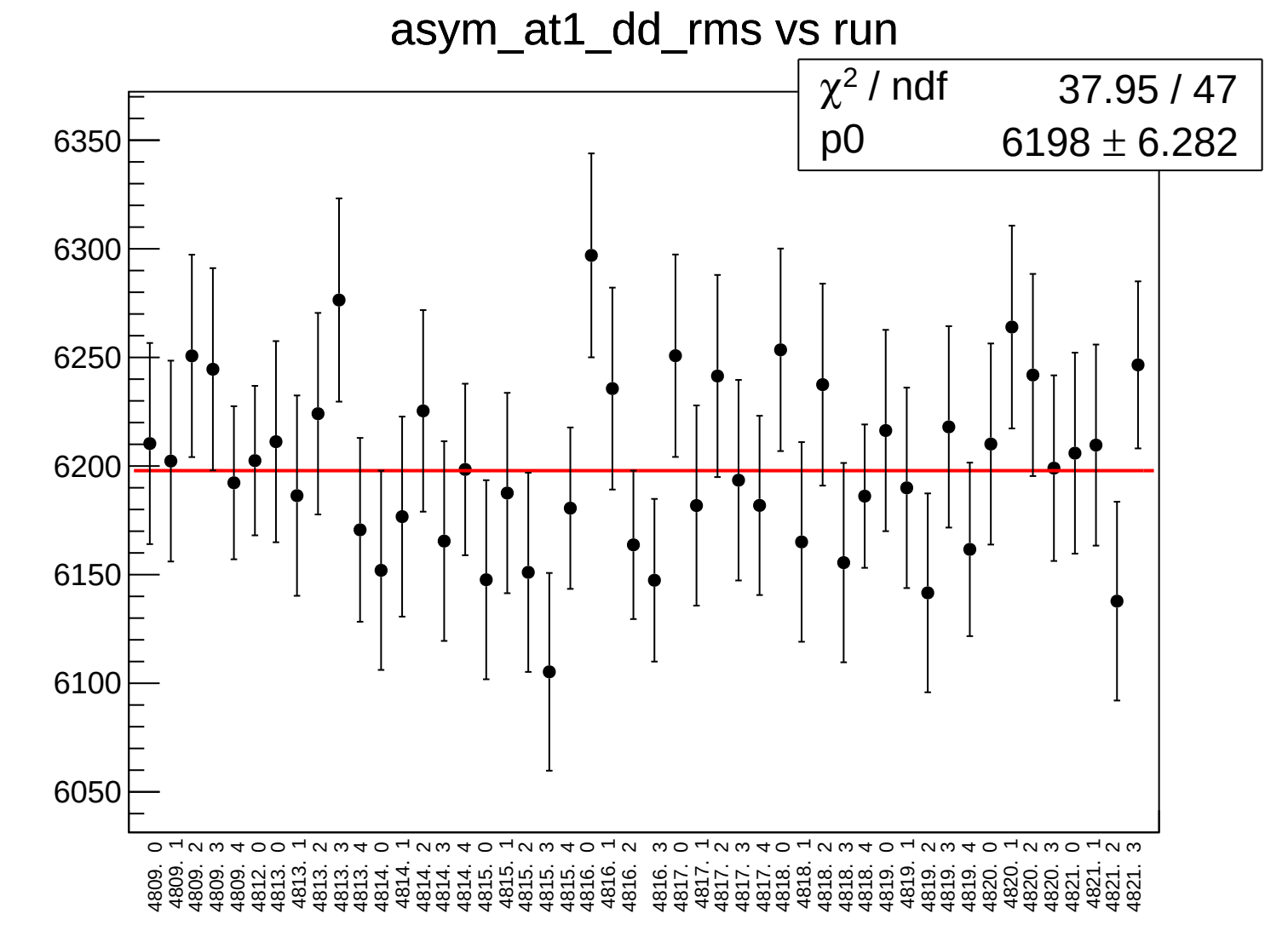

asym_at1_dd_correction_mean vs run
χ² / ndf 40.58 / 47
p0 −1259 ± 431
10000
5000
0
−5000
−10000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 82.56
Std Dev 44.17
1.5
1
0.5
0
−0.5
−1
−1.5

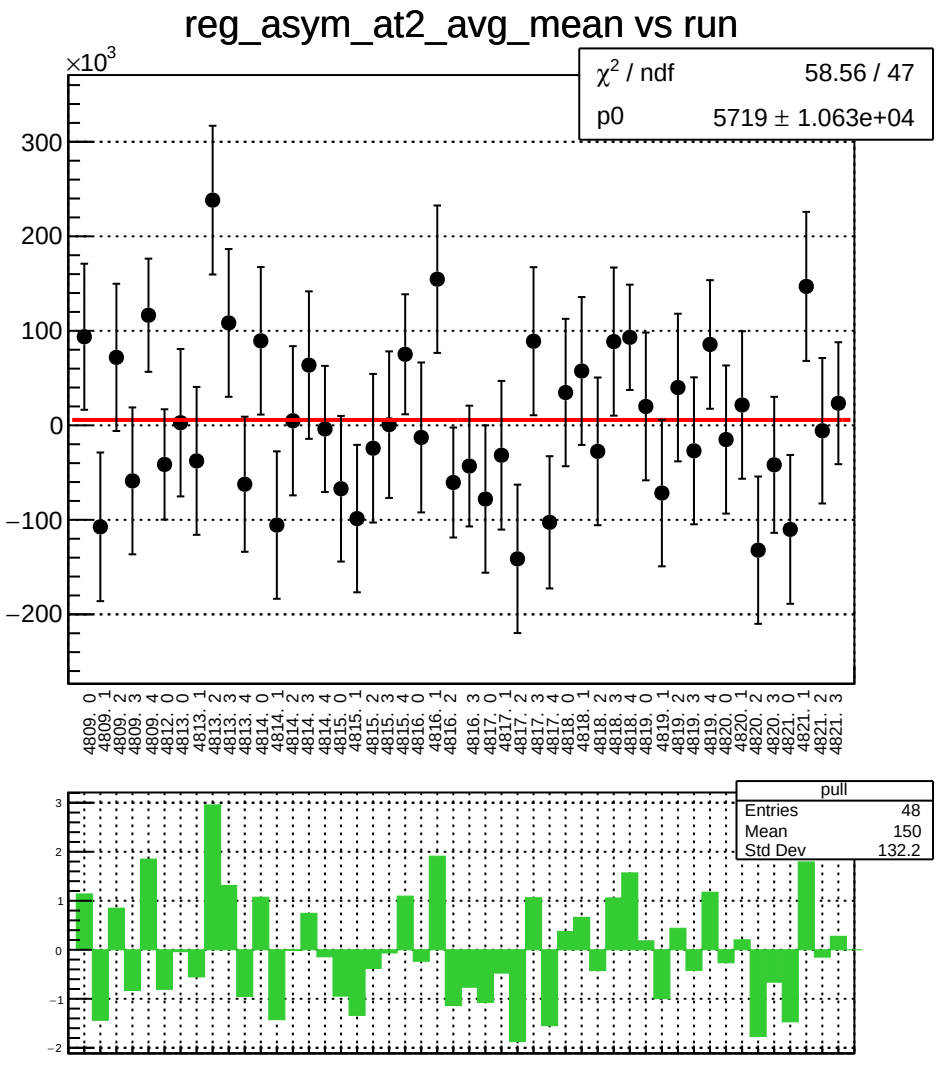

pull1D
Entries 48
Mean −0.03159
Std Dev 0.919
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

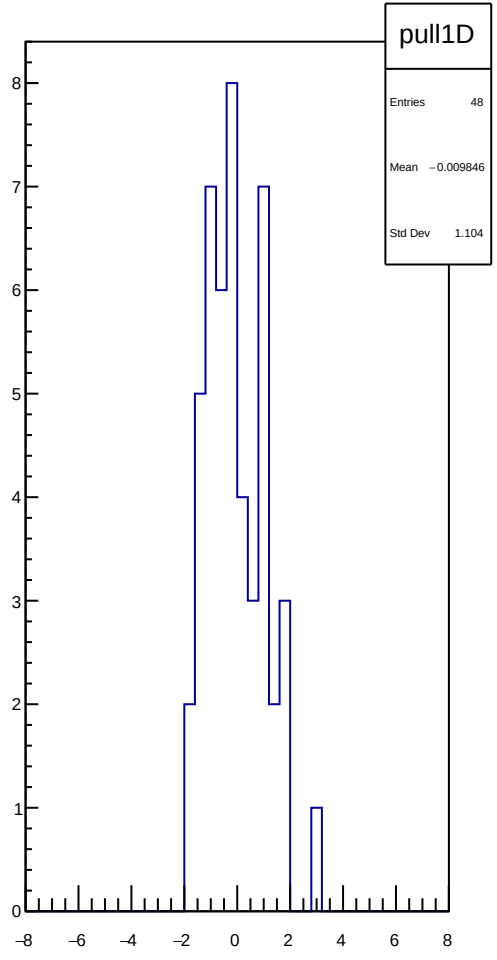

asym_at1_dd_correction_rms vs run
χ² / ndf 3.419e+04 / 47
p0 295.3 ± 0.3048
450
400
350
300
250
200
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

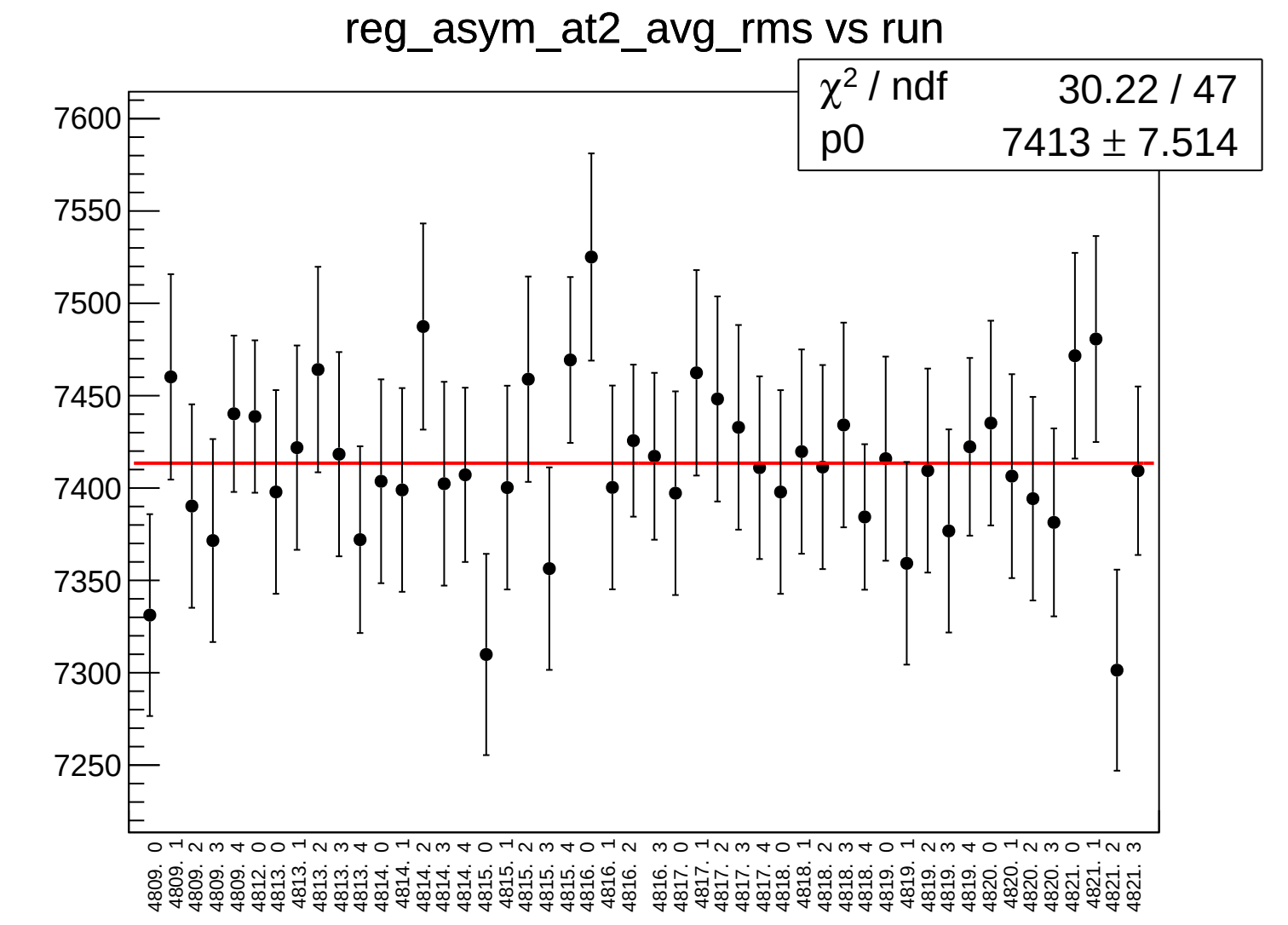

asym_at1_dd_mean vs run
×10^3
χ² / ndf 54.59 / 47
p0 4913 ± 8885
200
150
100
50
0
−50
−100
−150
−200
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 267.7
Std Dev 249.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

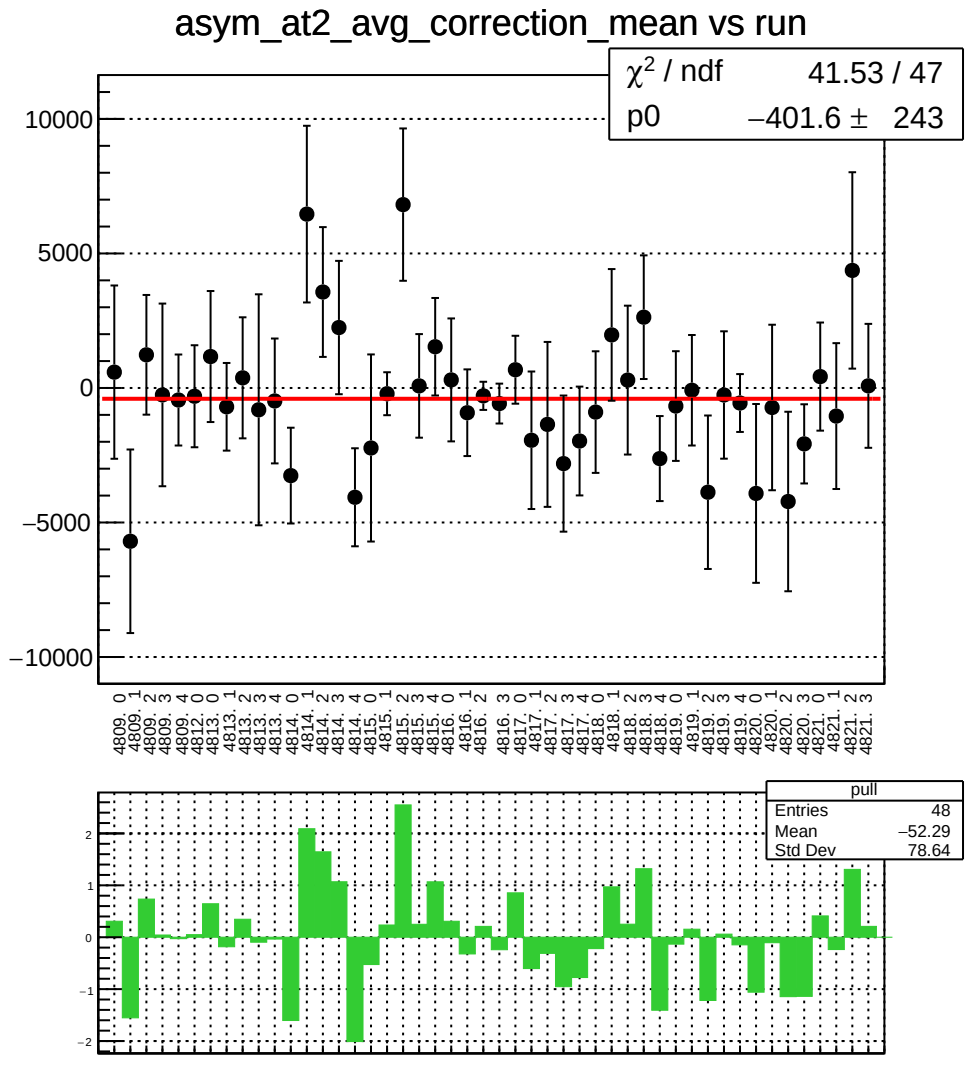

pull1D
Entries 48
Mean 0.01551
Std Dev 1.066
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

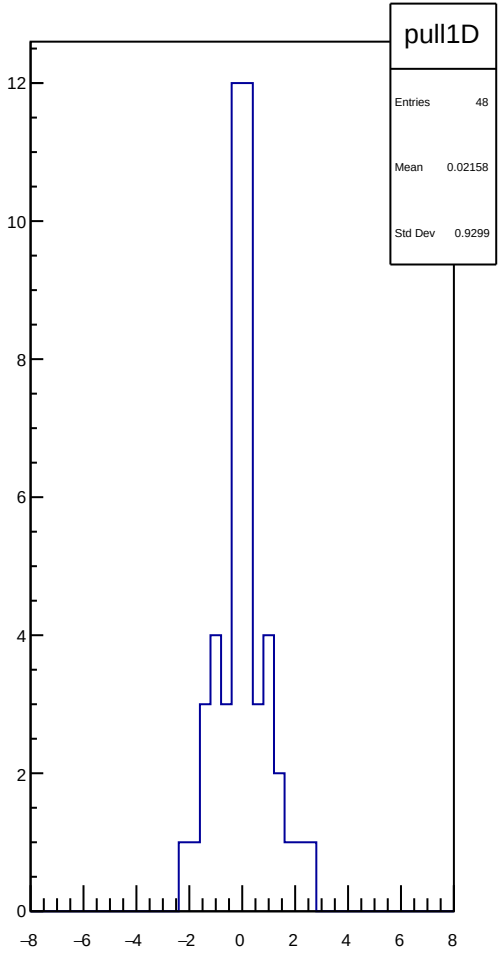

asym_at1_dd_rms vs run
χ² / ndf 37.95 / 47
p0 6198 ± 6.282
6350
6300
6250
6200
6150
6100
6050
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

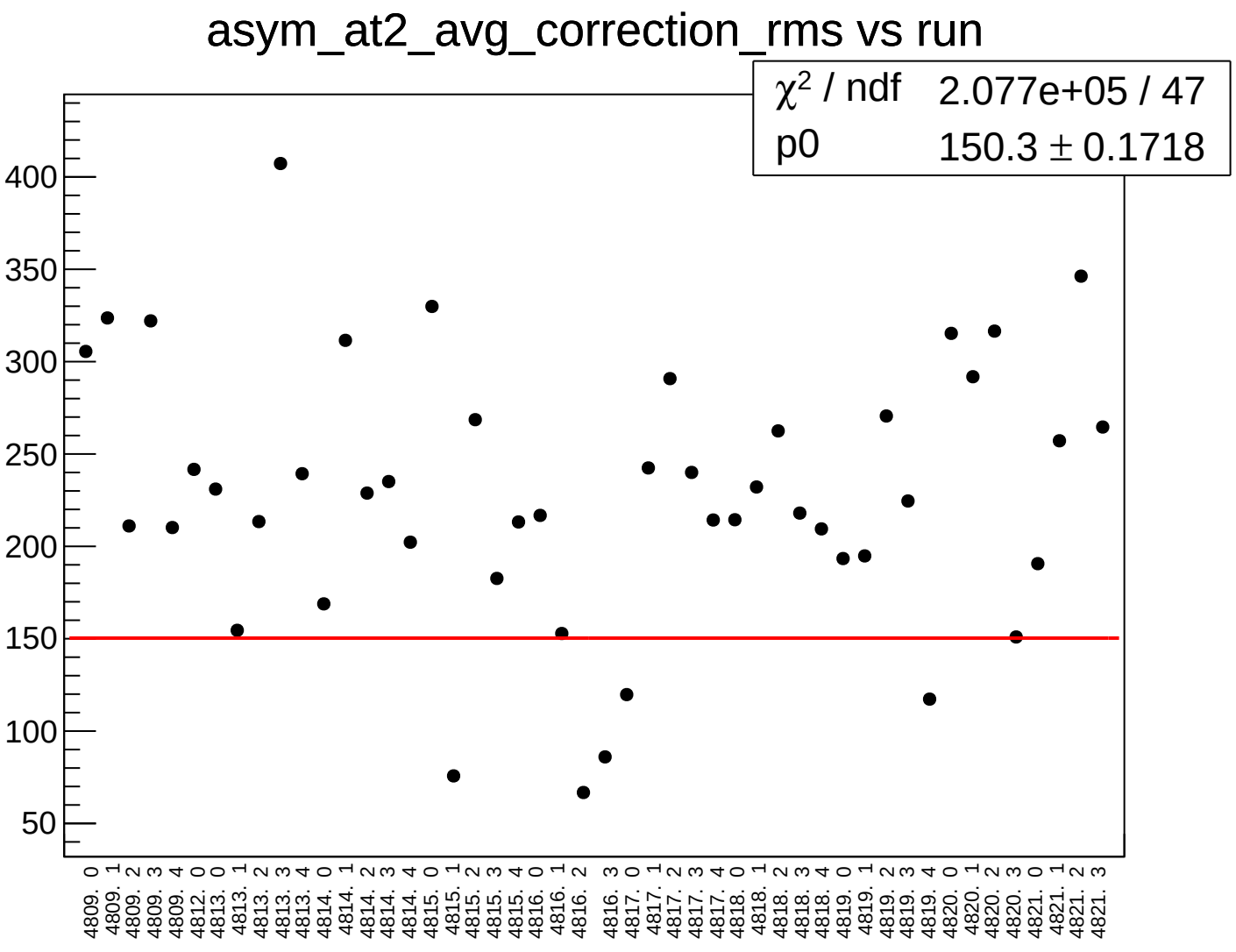

reg_asym_at2_avg_mean vs run
×10^3
χ² / ndf 58.56 / 47
p0 5719 ± 1.063e+04
300
200
100
0
−100
−200
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 150
Std Dev 132.2
3
2
1
0
−1
−2

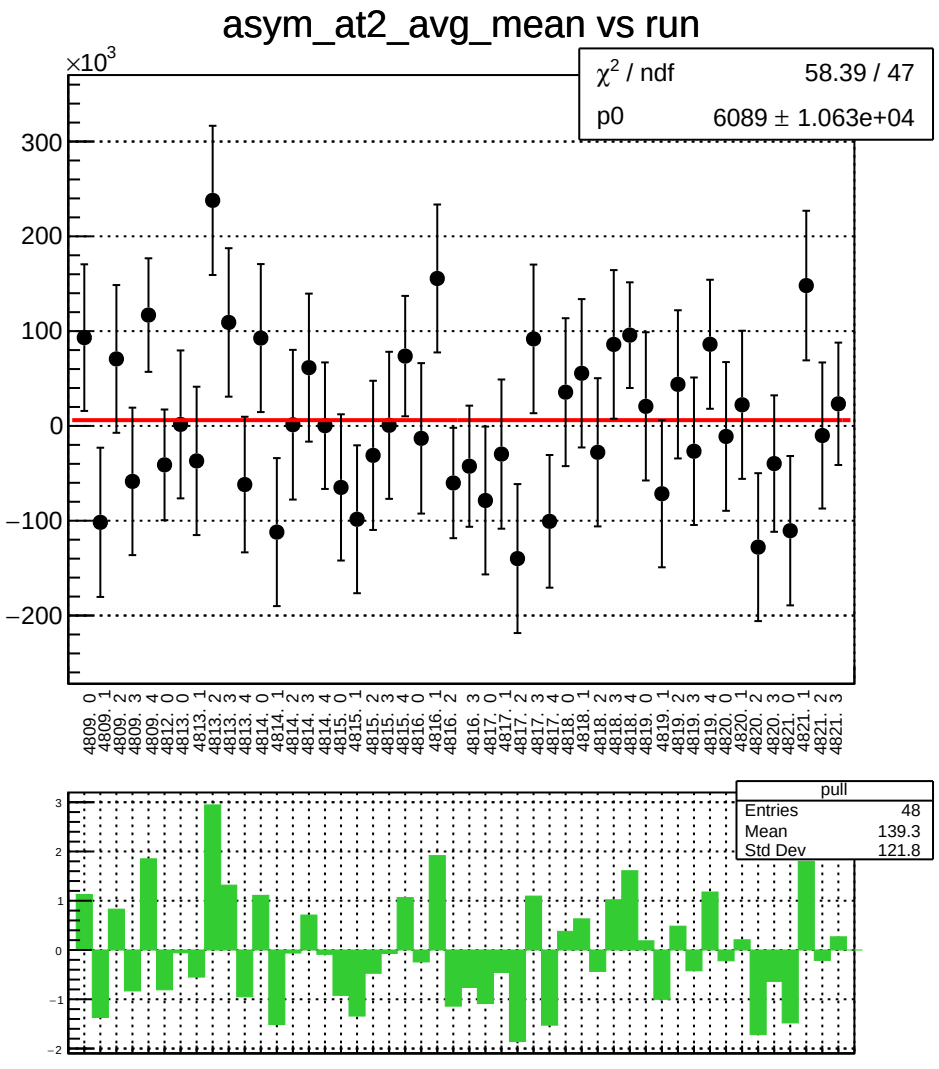

pull1D
Entries 48
Mean −0.009846
Std Dev 1.104
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

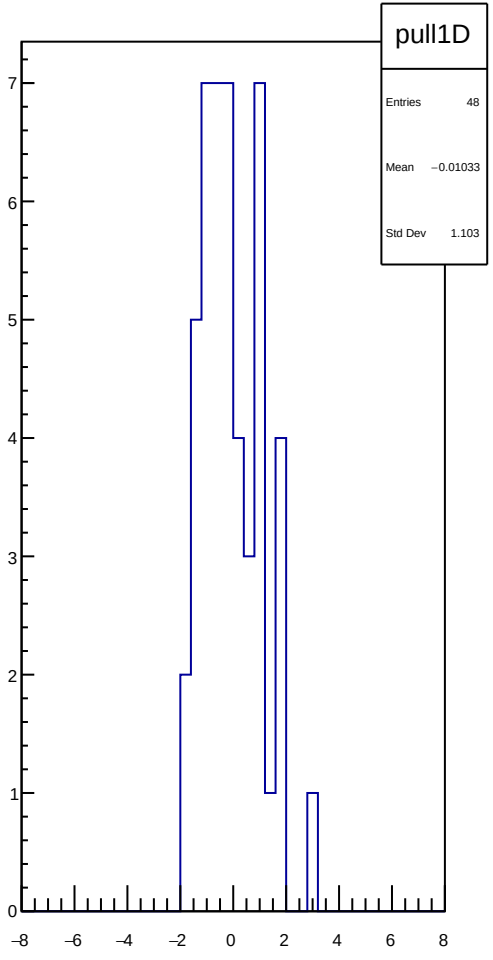

reg_asym_at2_avg_rms vs run
χ² / ndf 30.22 / 47
p0 7413 ± 7.514
7600
7550
7500
7450
7400
7350
7300
7250
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

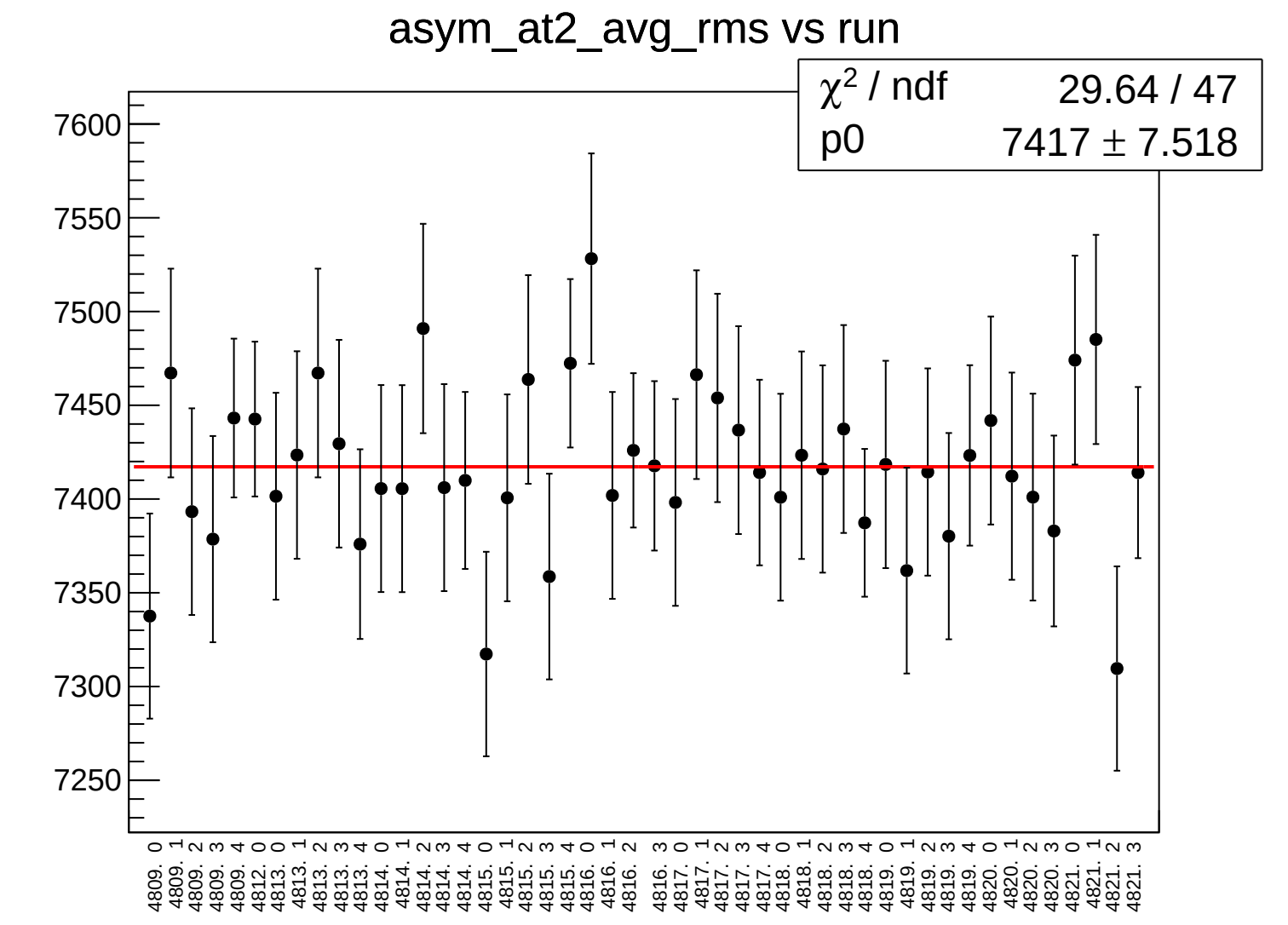

asym_at2_avg_correction_mean vs run
χ² / ndf 41.53 / 47
p0 −401.6 ± 243
10000
5000
0
−5000
−10000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean −52.29
Std Dev 78.64
2
1
0
−1
−2

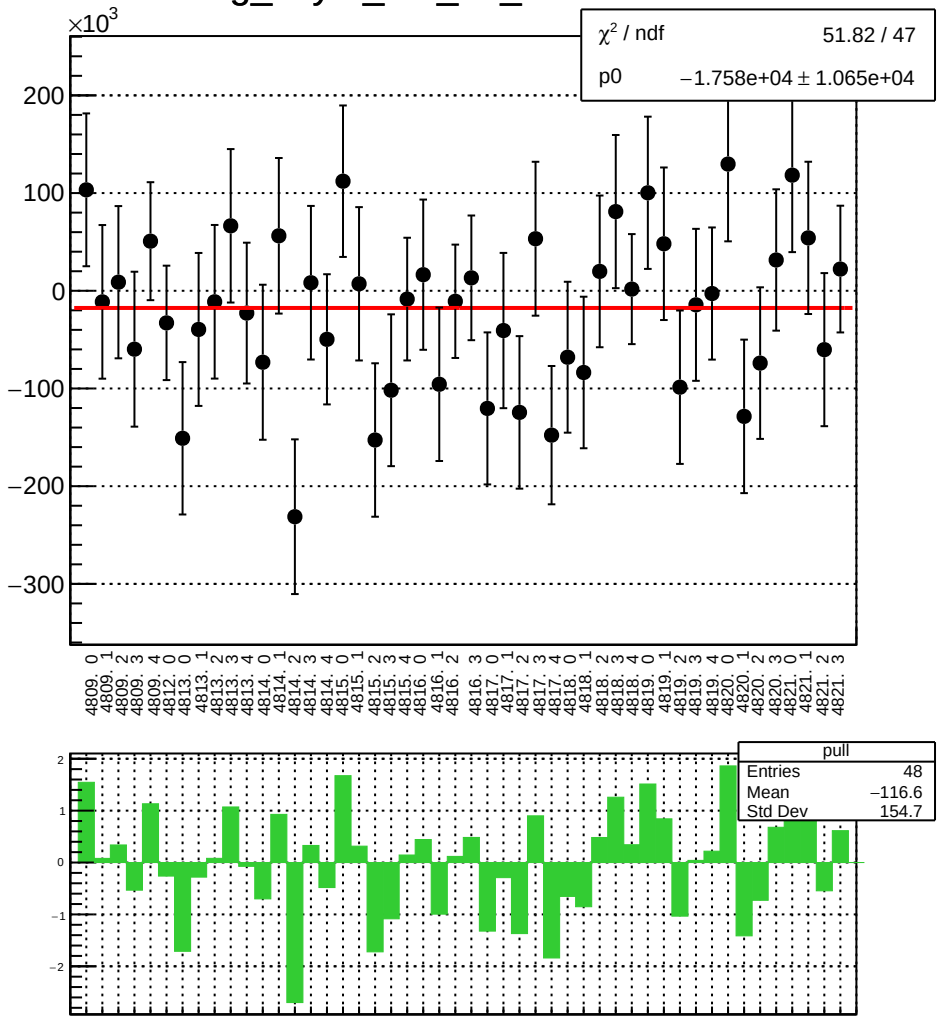

pull1D
Entries 48
Mean 0.02158
Std Dev 0.9299
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

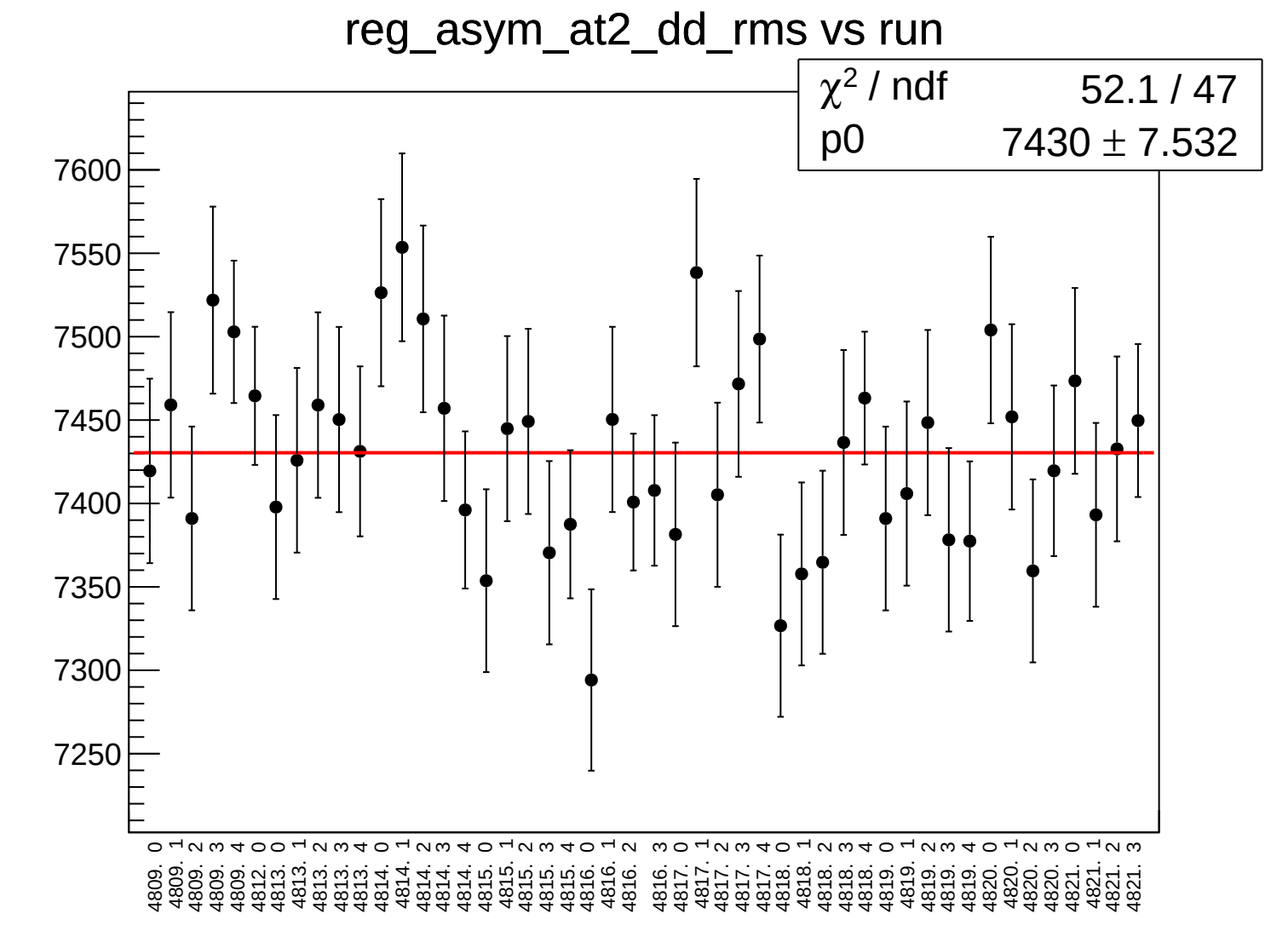

asym_at2_avg_correction_rms vs run
χ² / ndf 2.077e+05 / 47
p0 150.3 ± 0.1718
400
350
300
250
200
150
100
50
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

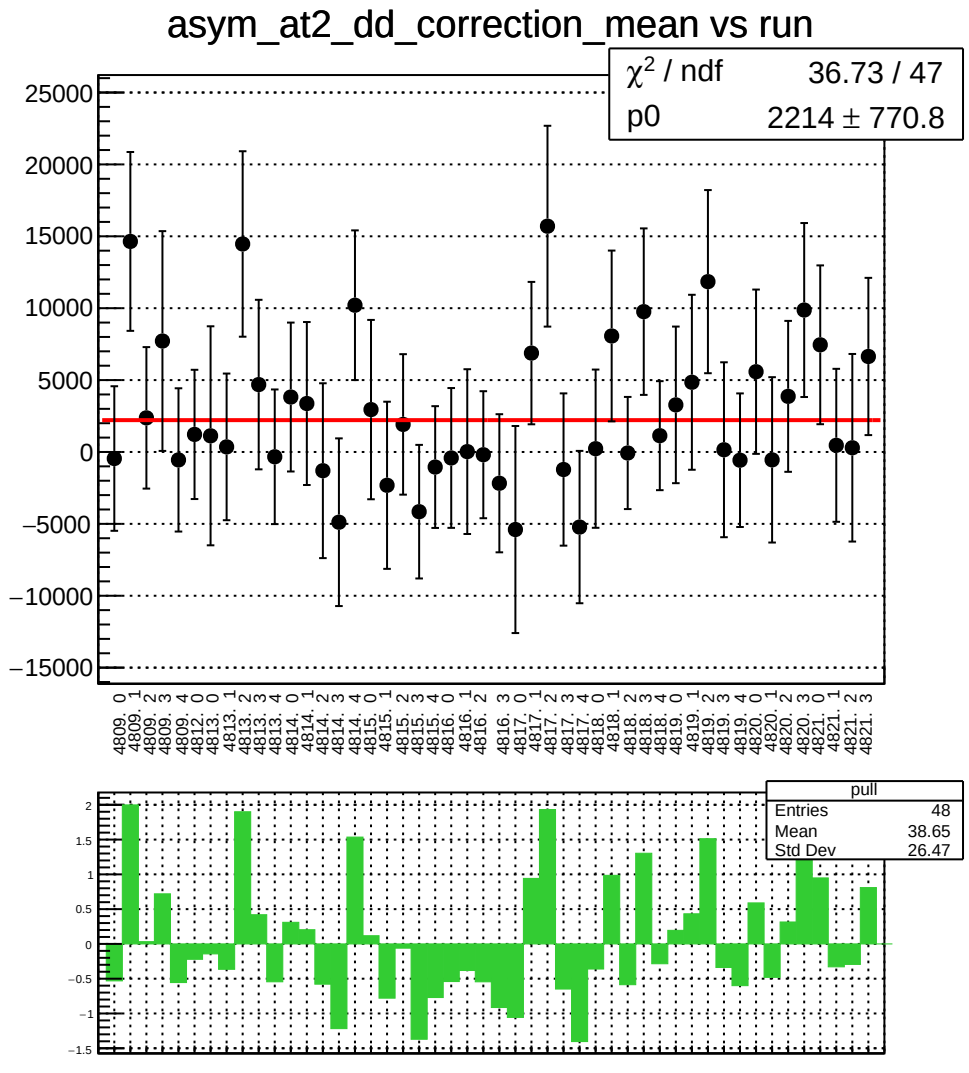

asym_at2_avg_mean vs run
×10^3
χ² / ndf 58.39 / 47
p0 6089 ± 1.063e+04
300
200
100
0
−100
−200
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 139.3
Std Dev 121.8
3
2
1
0
−1
−2

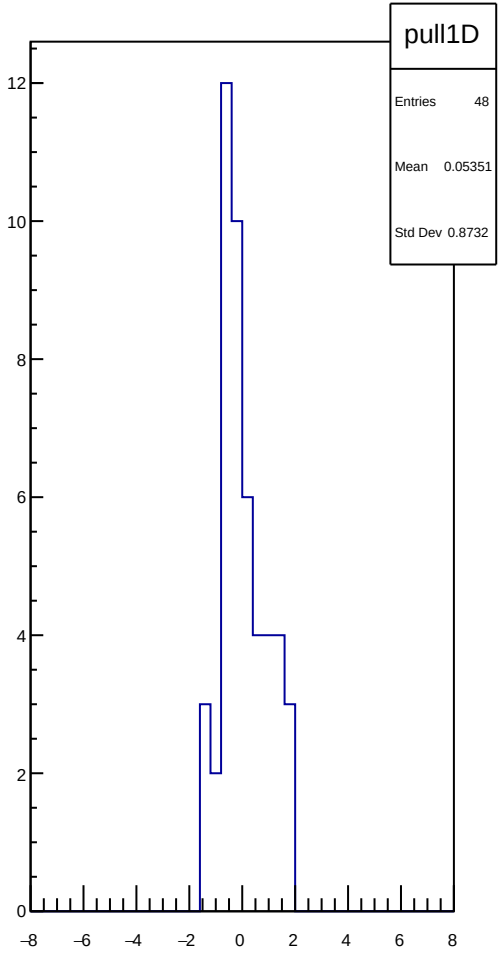

pull1D
Entries 48
Mean −0.01033
Std Dev 1.103
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

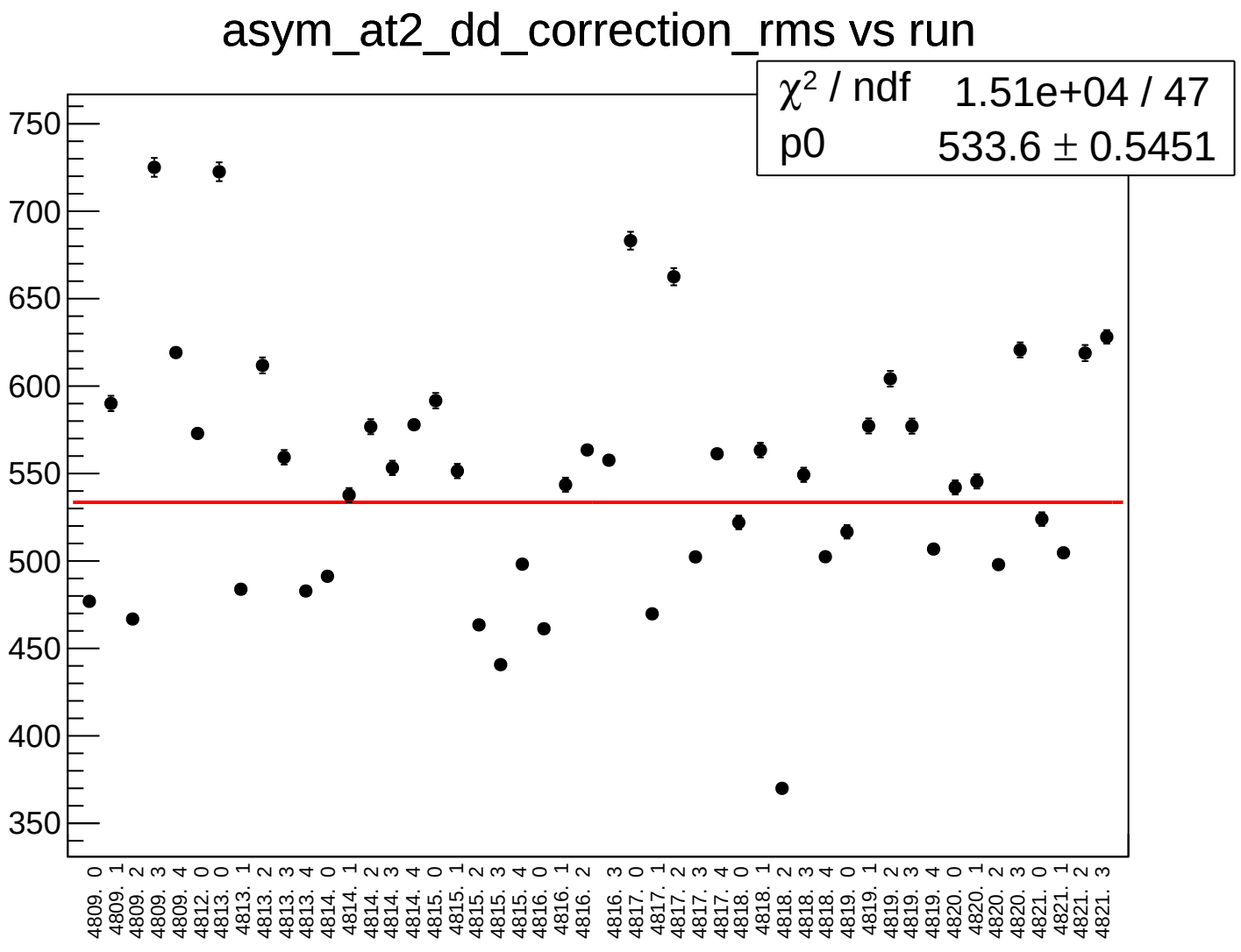

asym_at2_avg_rms vs run
χ² / ndf 29.64 / 47
p0 7417 ± 7.518
7600
7550
7500
7450
7400
7350
7300
7250
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

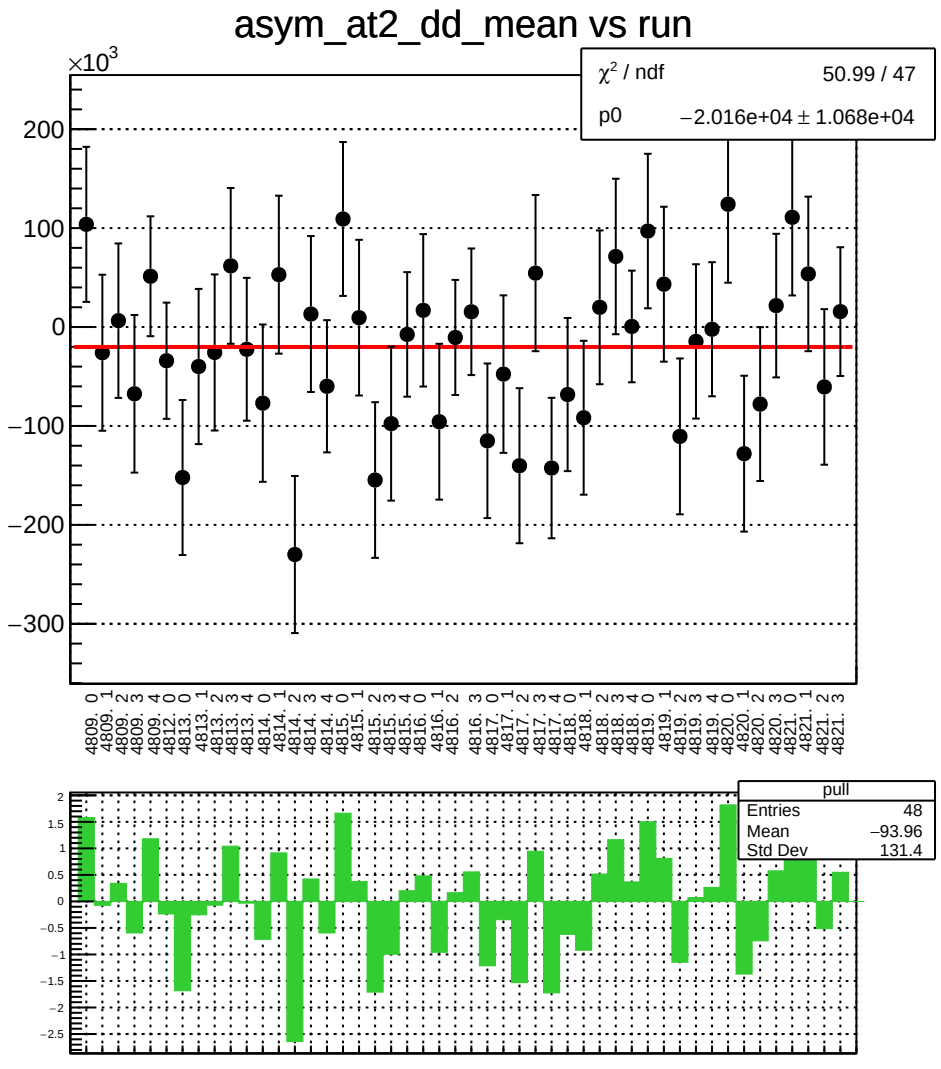

reg_asym_at2_dd_mean vs run
×10^3
χ² / ndf 51.82 / 47
p0 −1.758e+04 ± 1.065e+04
200
100
0
−100
−200
−300
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean −116.6
Std Dev 154.7
2
1
0
−1
−2
pull1D
Entries 48
Mean −0.01049
Std Dev 1.039
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

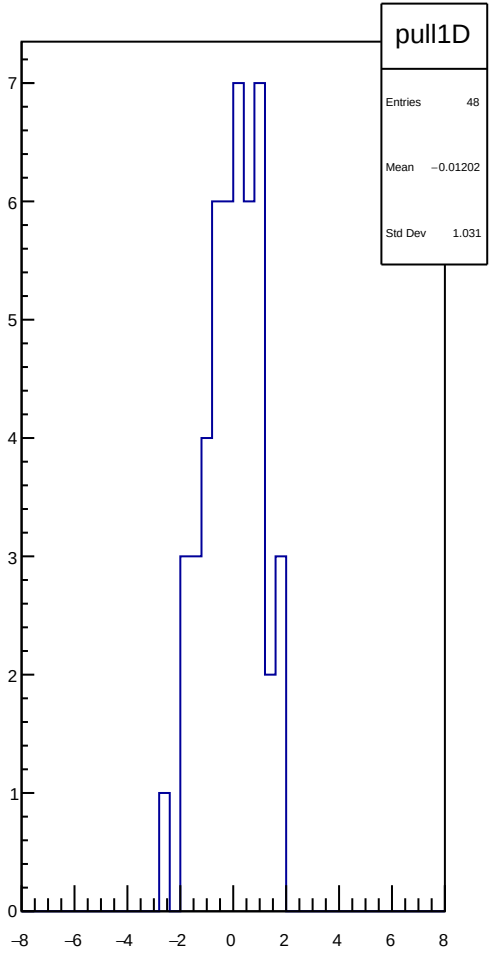

reg_asym_at2_dd_rms vs run
χ² / ndf 52.1 / 47
p0 7430 ± 7.532
7600
7550
7500
7450
7400
7350
7300
7250
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

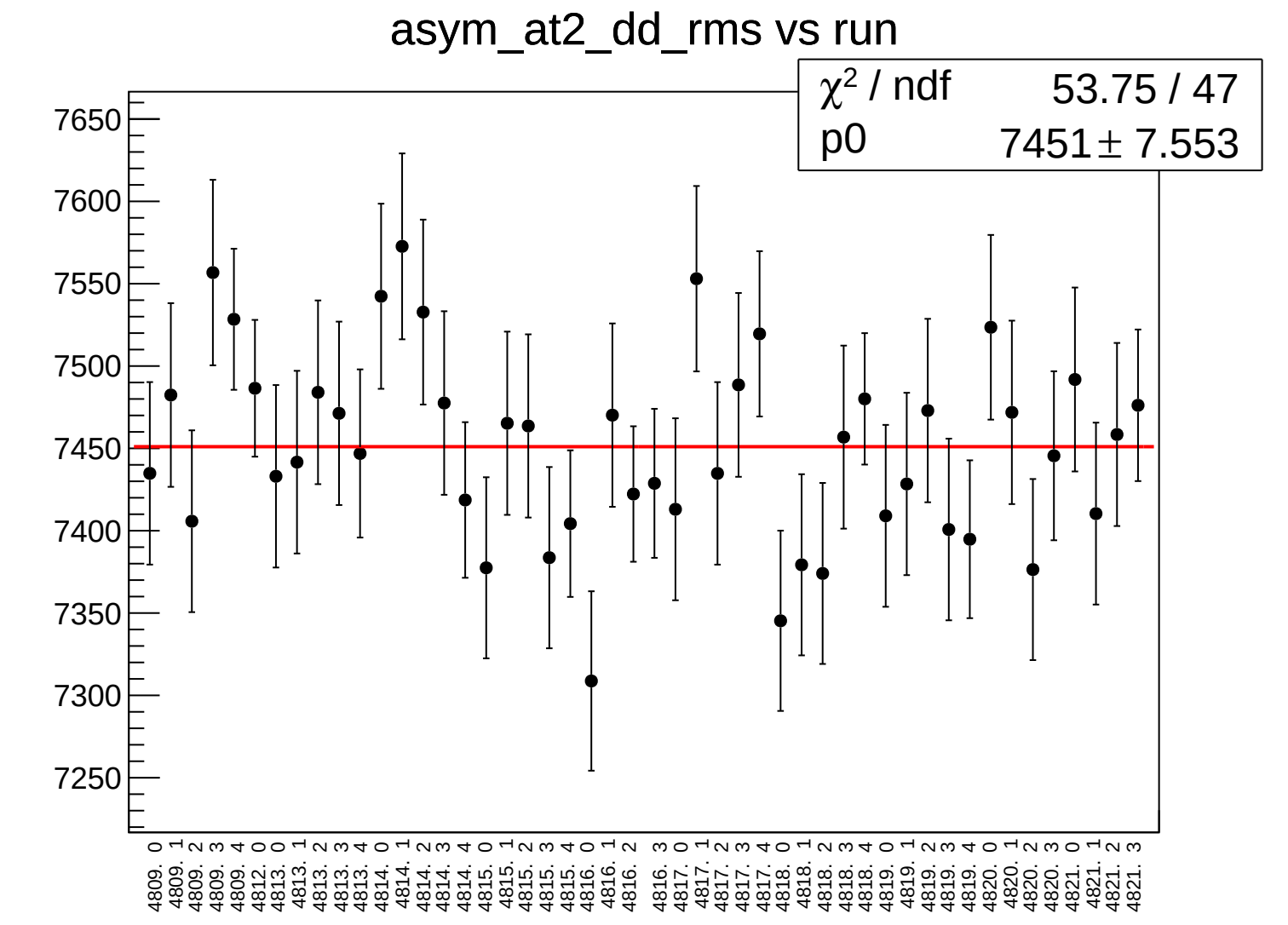

asym_at2_dd_correction_mean vs run
χ² / ndf 36.73 / 47
p0 2214 ± 770.8
pull
Entries 48
Mean 38.65
Std Dev 26.47

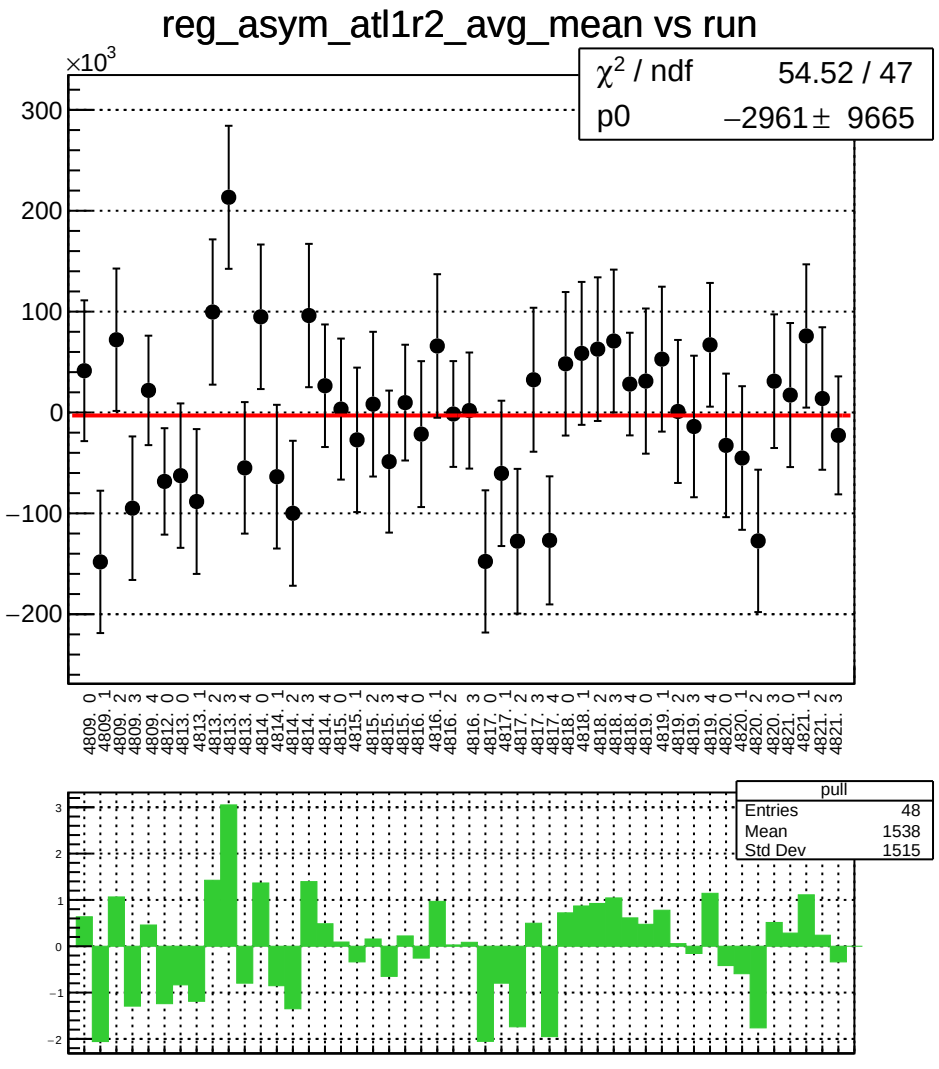

pull1D
Entries 48
Mean 0.05351
Std Dev 0.8732

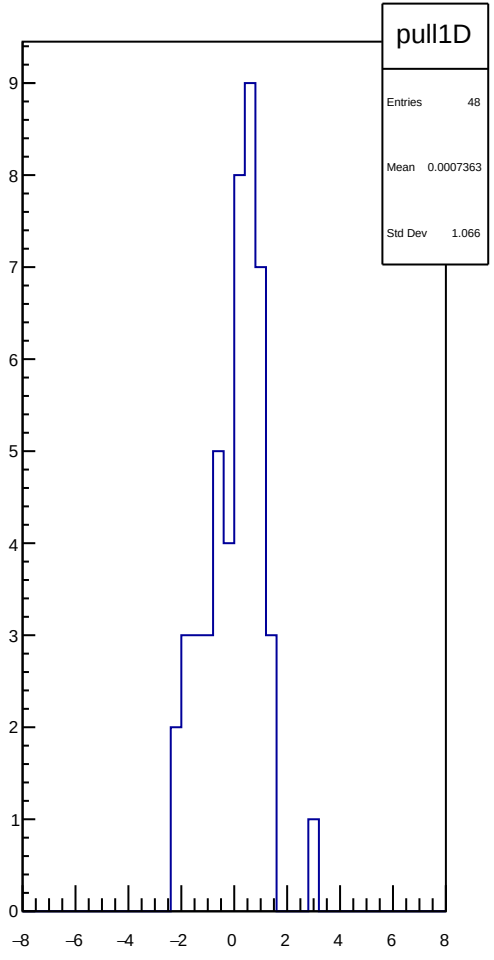

asym_at2_dd_correction_rms vs run
χ² / ndf 1.51e+04 / 47
p0 533.6 ± 0.5451
750
700
650
600
550
500
450
400
350
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

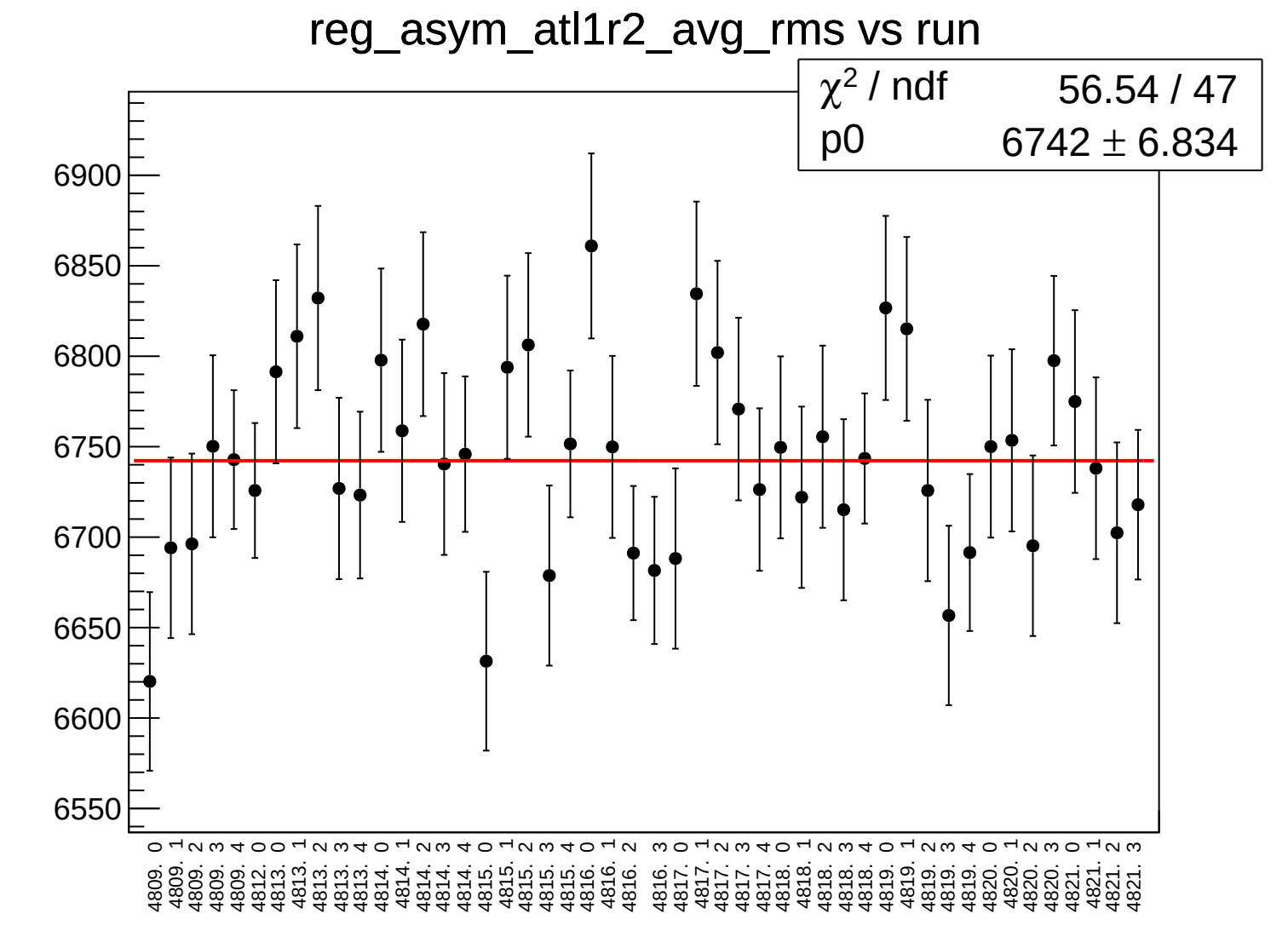

asym_at2_dd_mean vs run
×10^3
χ² / ndf 50.99 / 47
p0 −2.016e+04 ± 1.068e+04
200
100
0
−100
−200
−300
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean −93.96
Std Dev 131.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 48
Mean −0.01202
Std Dev 1.031
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_at2_dd_rms vs run
χ² / ndf 53.75 / 47
p0 7451 ± 7.553
7650
7600
7550
7500
7450
7400
7350
7300
7250
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3


reg_asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 54.52 / 47
p0 −2961 ± 9665
300
200
100
0
−100
−200
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 1538
Std Dev 1515
3
2
1
0
−1
−2


pull1D
Entries 48
Mean 0.0007363
Std Dev 1.066
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl1r2_avg_rms vs run
χ² / ndf 56.54 / 47
p0 6742 ± 6.834
6900
6850
6800
6750
6700
6650
6600
6550
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
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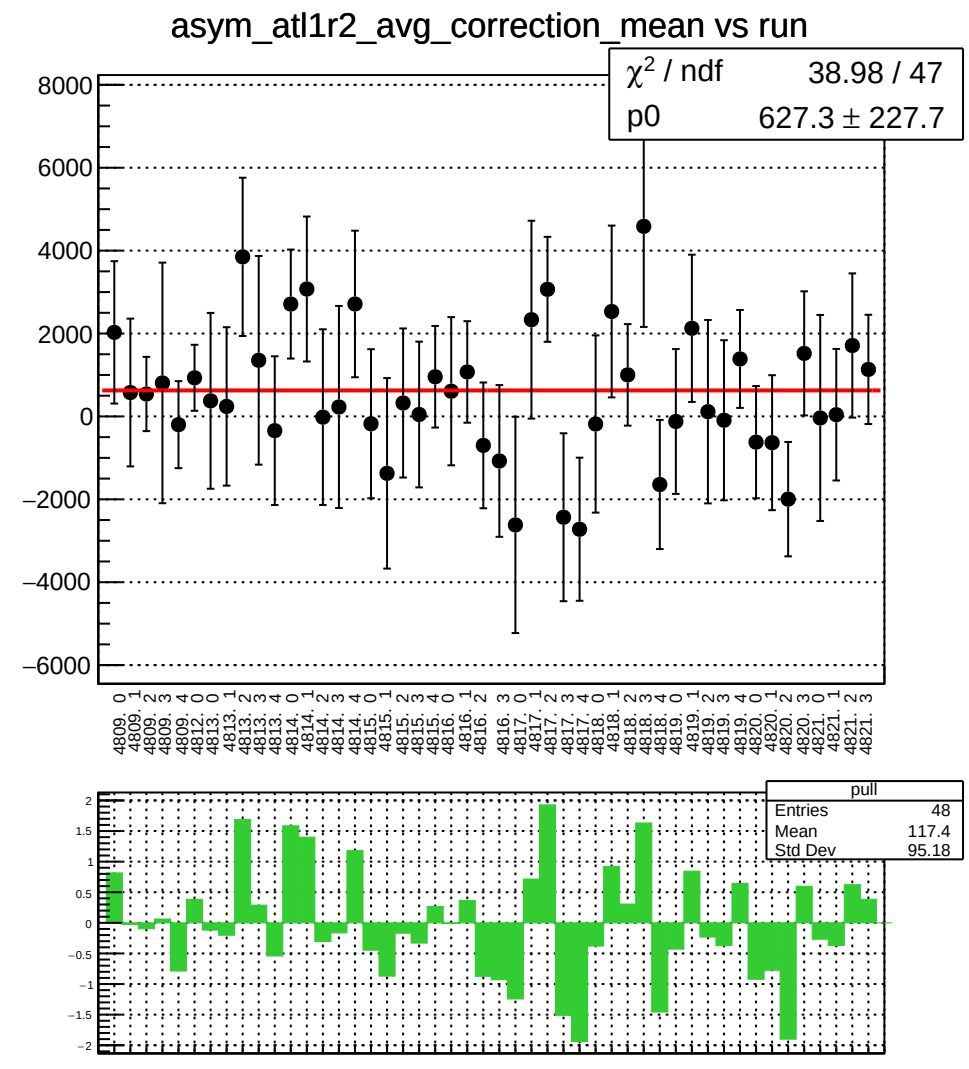
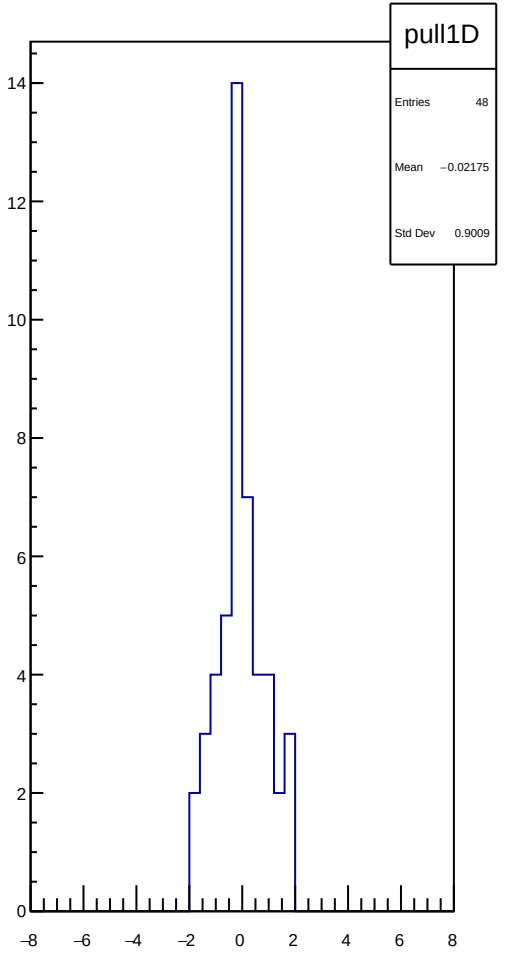
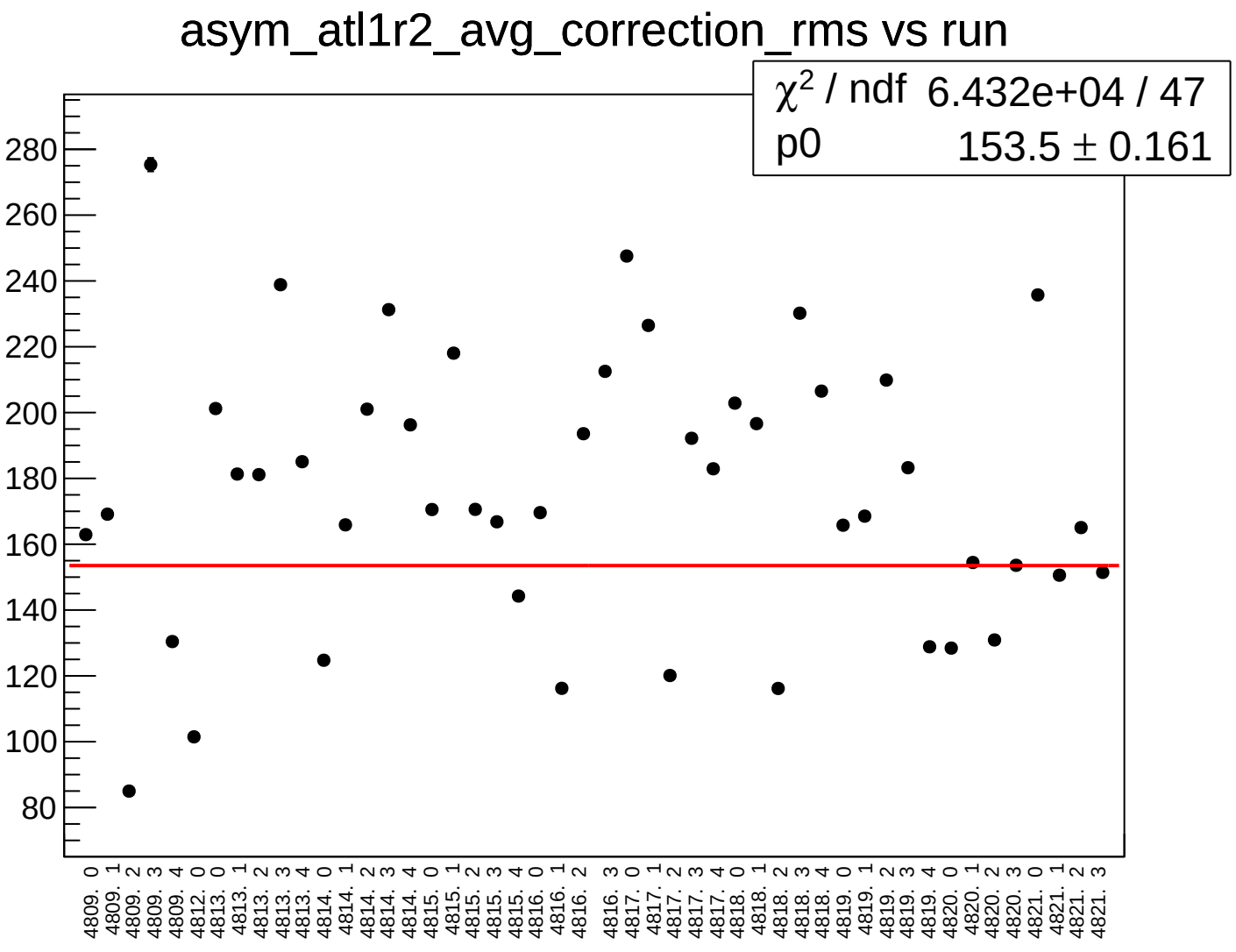
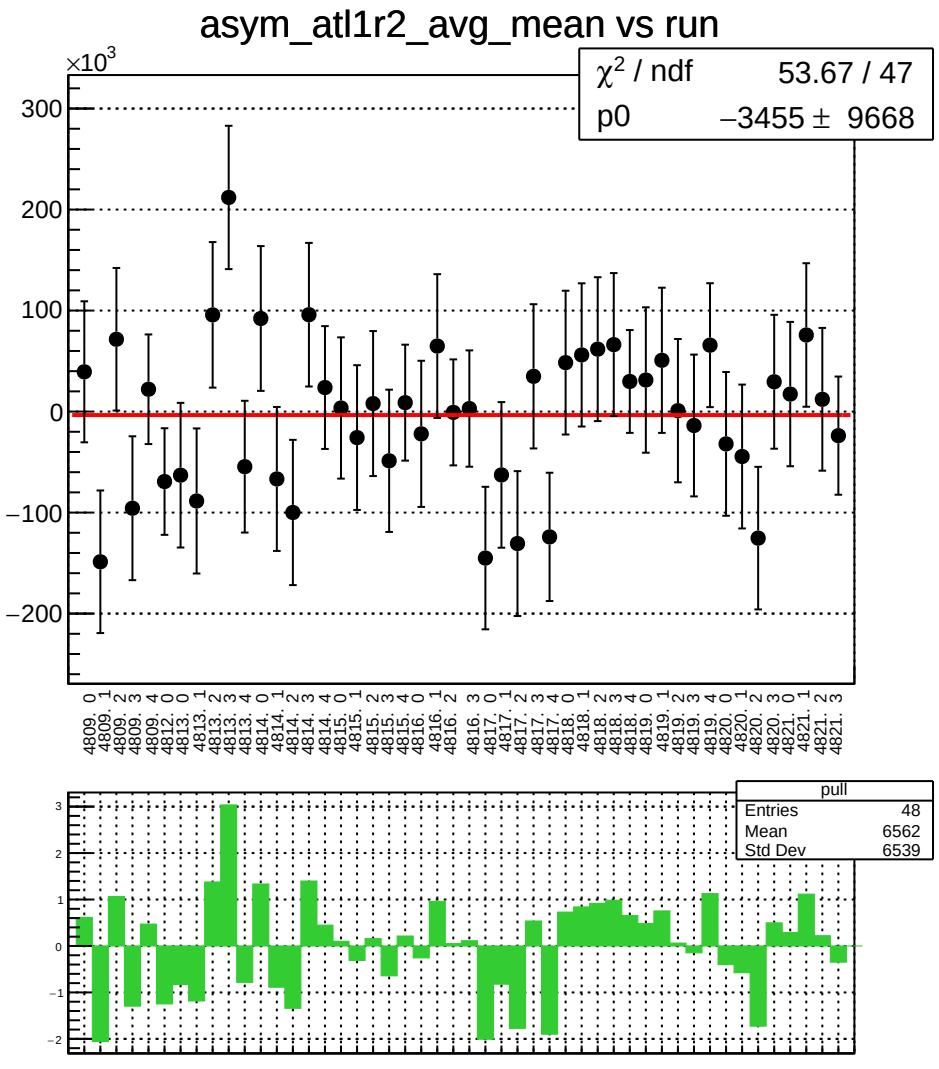
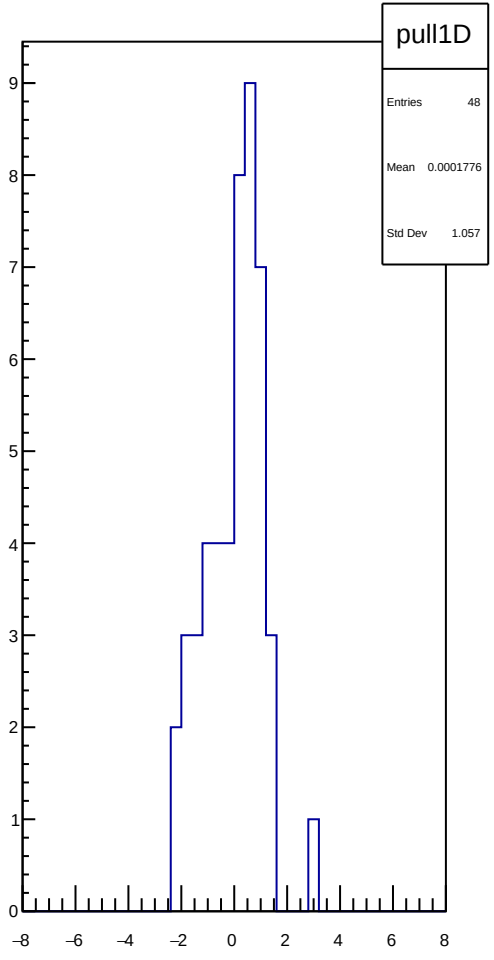
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

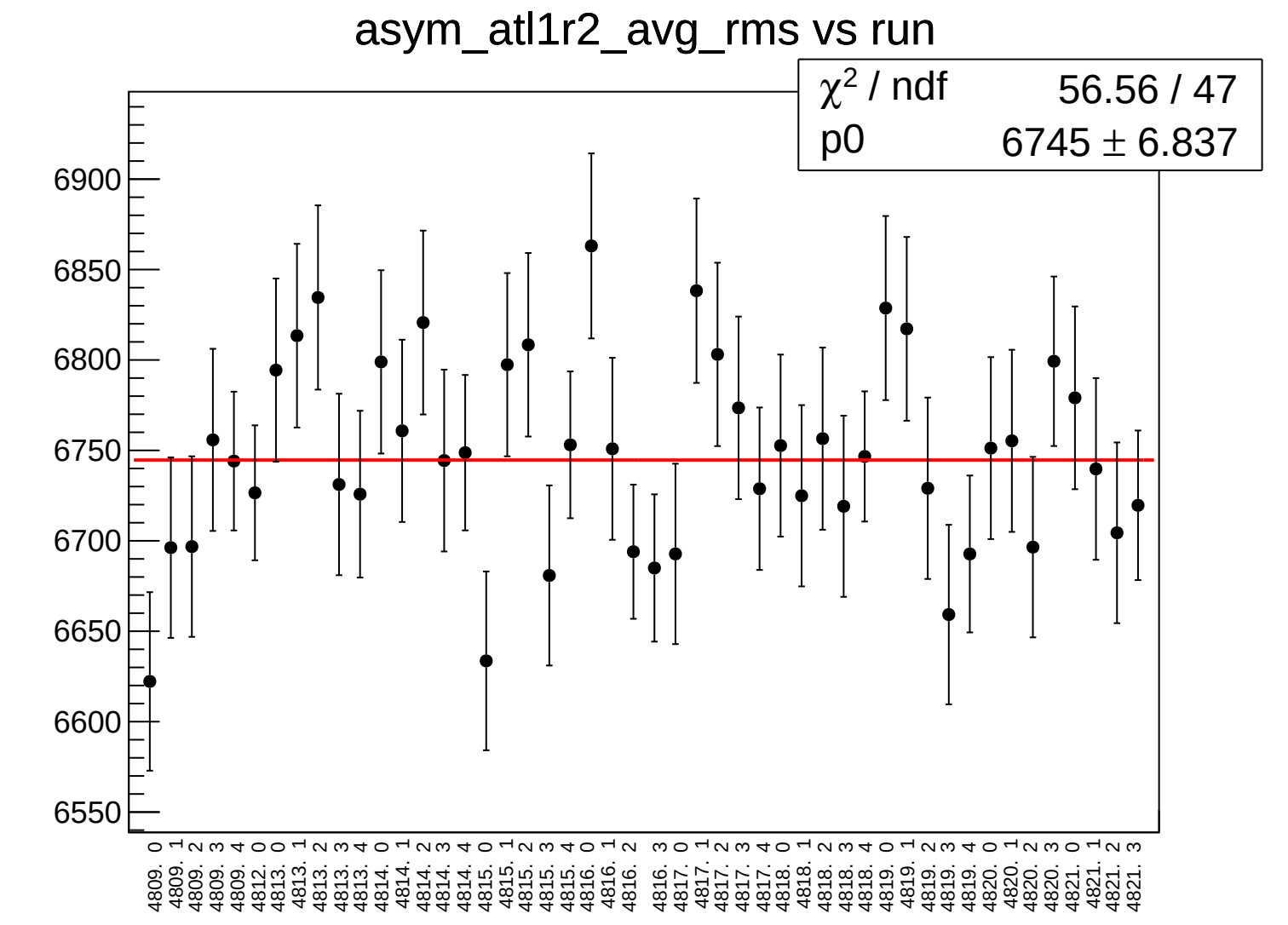

asym_atl1r2_avg_correction_mean vs run
χ² / ndf 38.98 / 47
p0 627.3 ± 227.7
pull
Entries 48
Mean 117.4
Std Dev 95.18

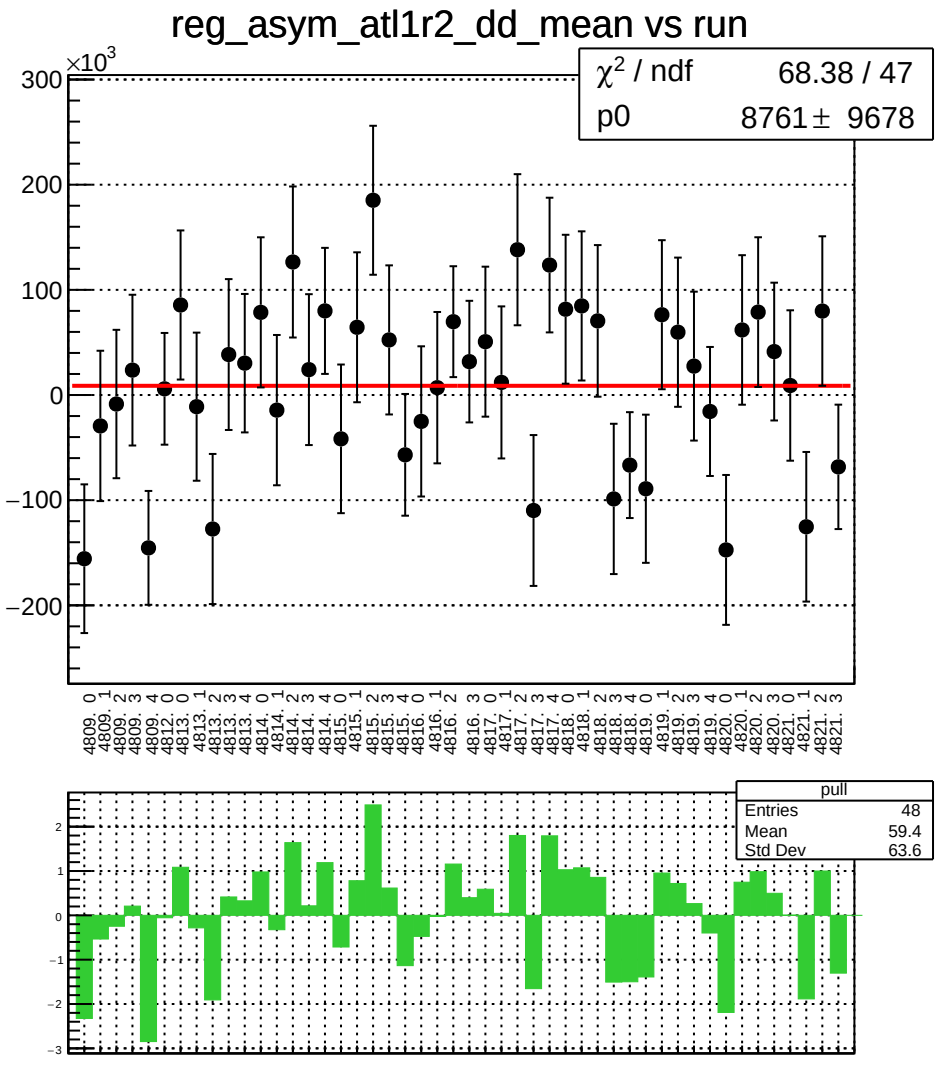

pull1D
Entries 48
Mean −0.02175
Std Dev 0.9009

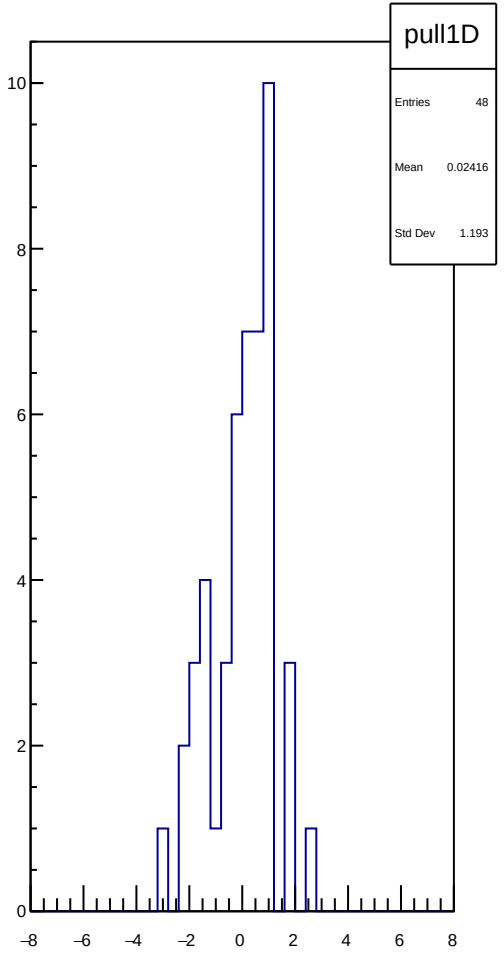

asym_atl1r2_avg_correction_rms vs run
χ² / ndf 6.432e+04 / 47
p0 153.5 ± 0.161
280
260
240
220
200
180
160
140
120
100
80
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

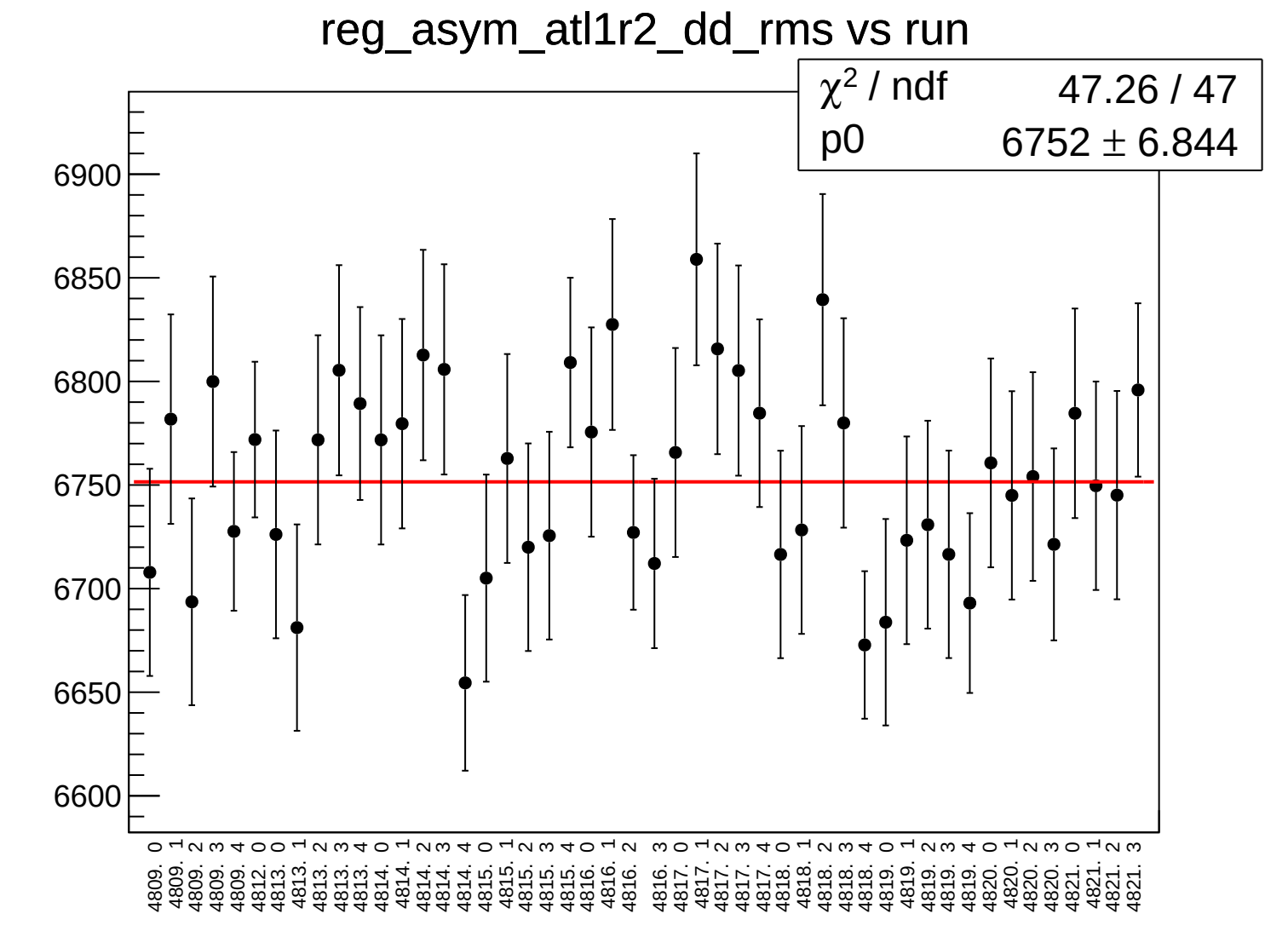

asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 53.67 / 47
p0 −3455 ± 9668
300
200
100
0
−100
−200
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 6562
Std Dev 6539
3
2
1
0
−1
−2

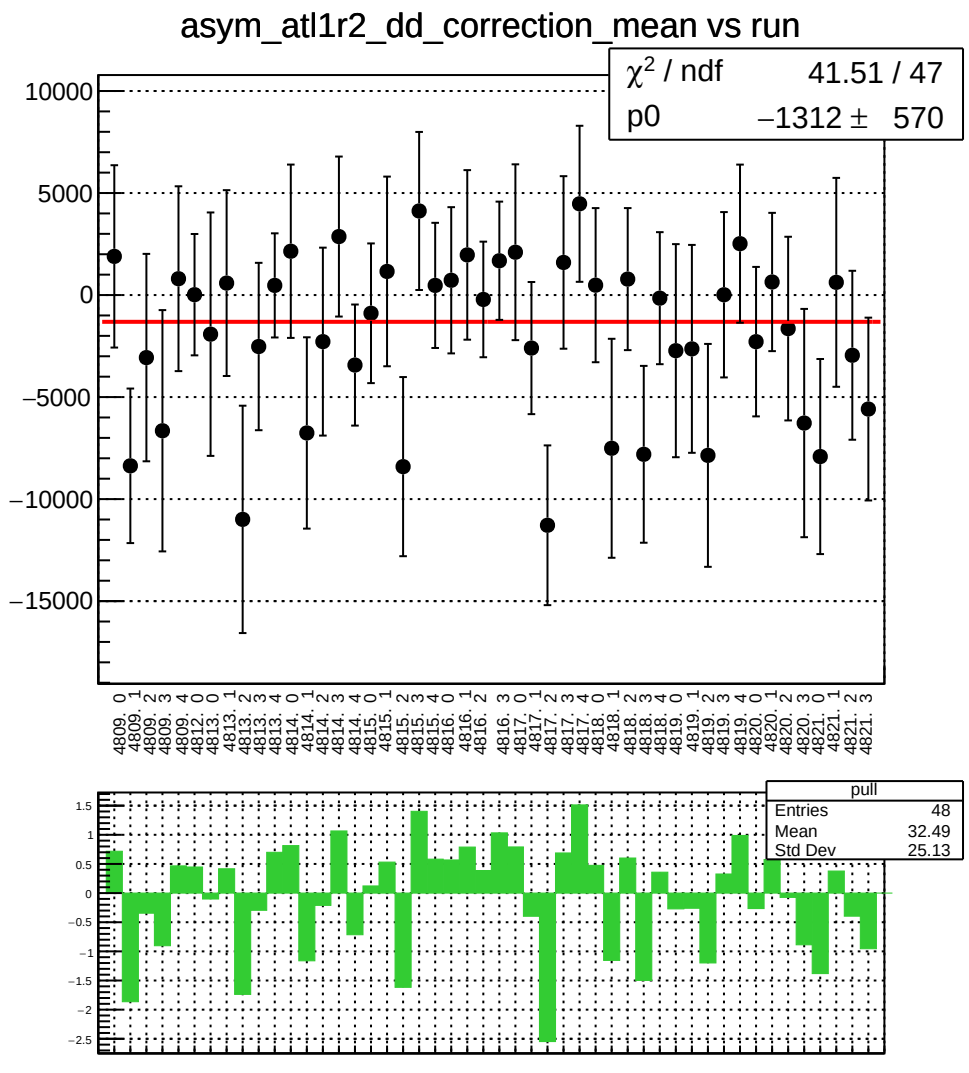

pull1D
Entries 48
Mean 0.0001776
Std Dev 1.057
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

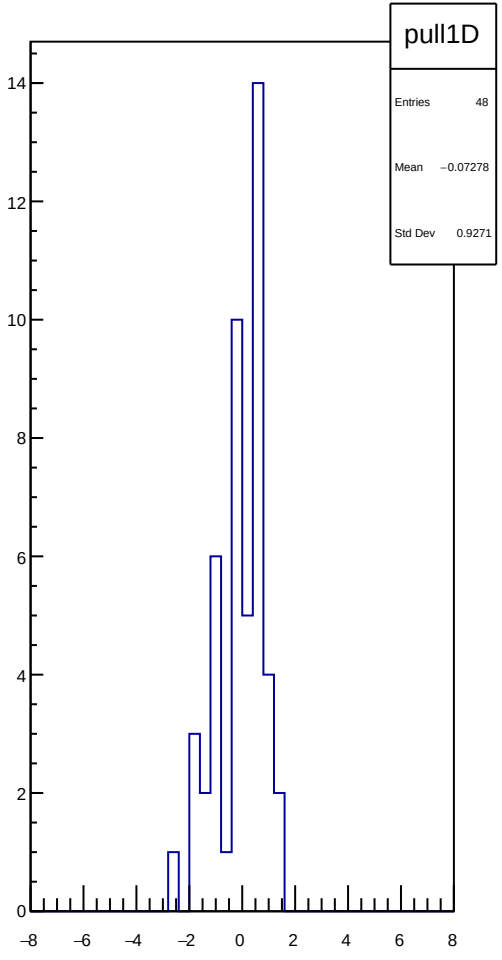

asym_atl1r2_avg_rms vs run
χ² / ndf 56.56 / 47
p0 6745 ± 6.837
6900
6850
6800
6750
6700
6650
6600
6550
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

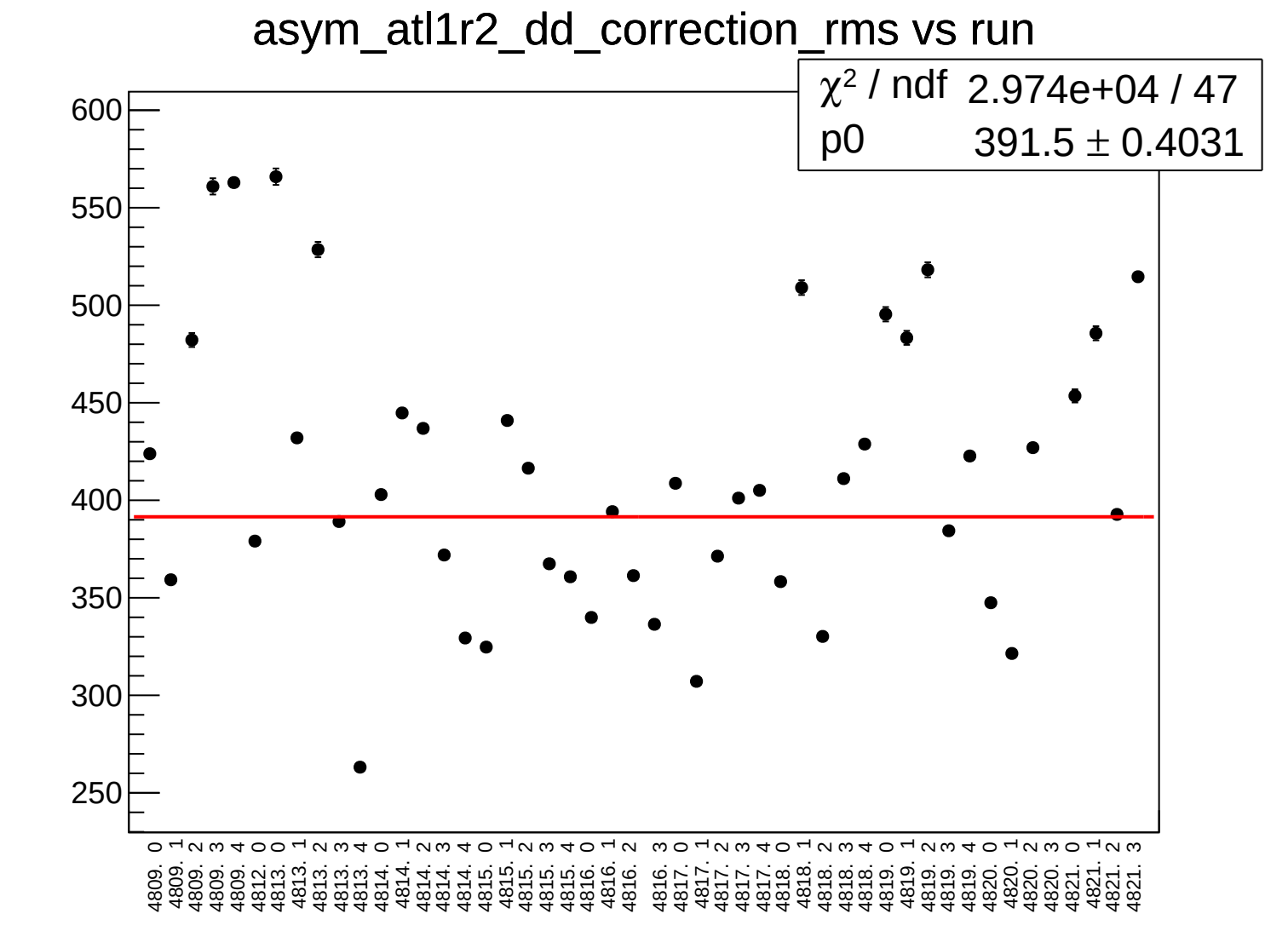

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 68.38 / 47
p0 8761 ± 9678
×10³
300
200
100
0
−100
−200
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 59.4
Std Dev 63.6
2
1
0
−1
−2
−3

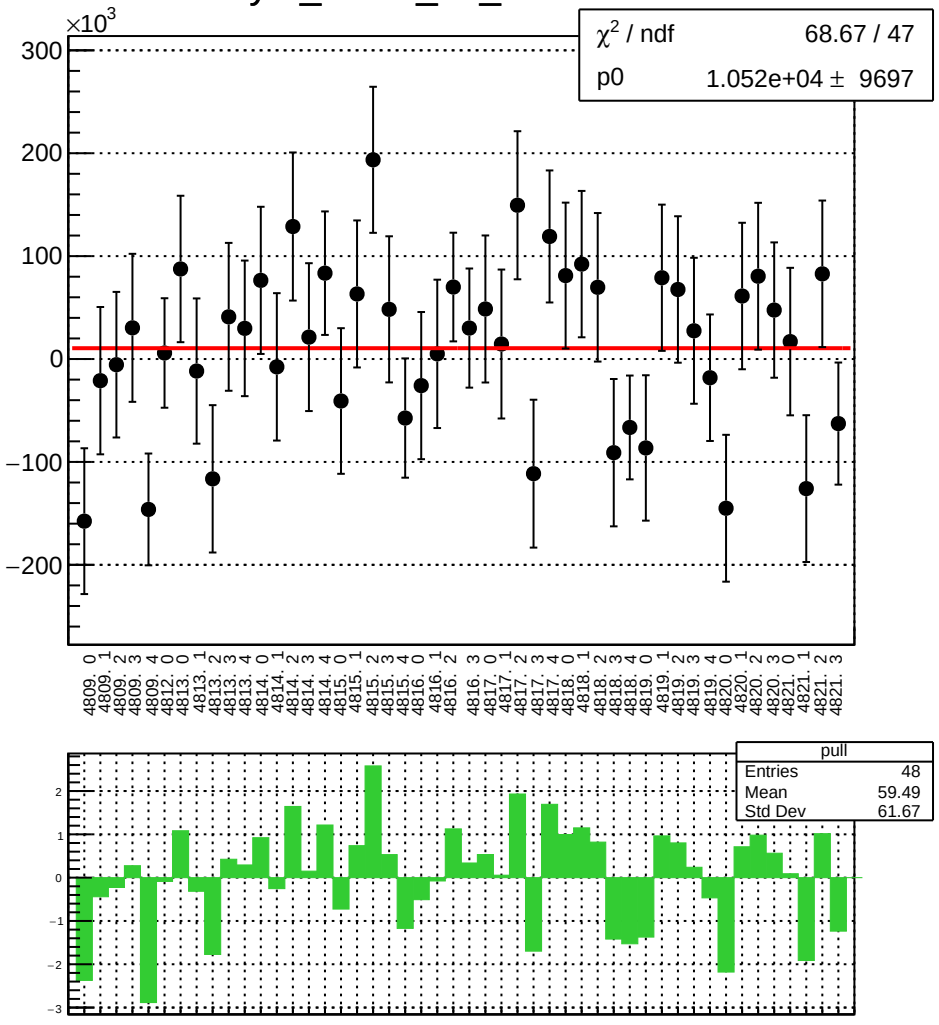

pull1D
Entries 48
Mean 0.02416
Std Dev 1.193
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

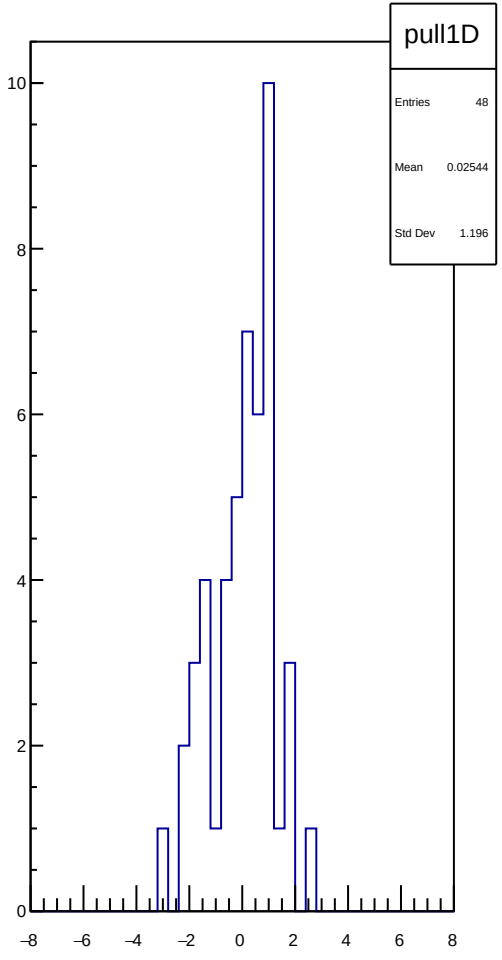

reg_asym_atl1r2_dd_rms vs run
χ² / ndf 47.26 / 47
p0 6752 ± 6.844
6900
6850
6800
6750
6700
6650
6600
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

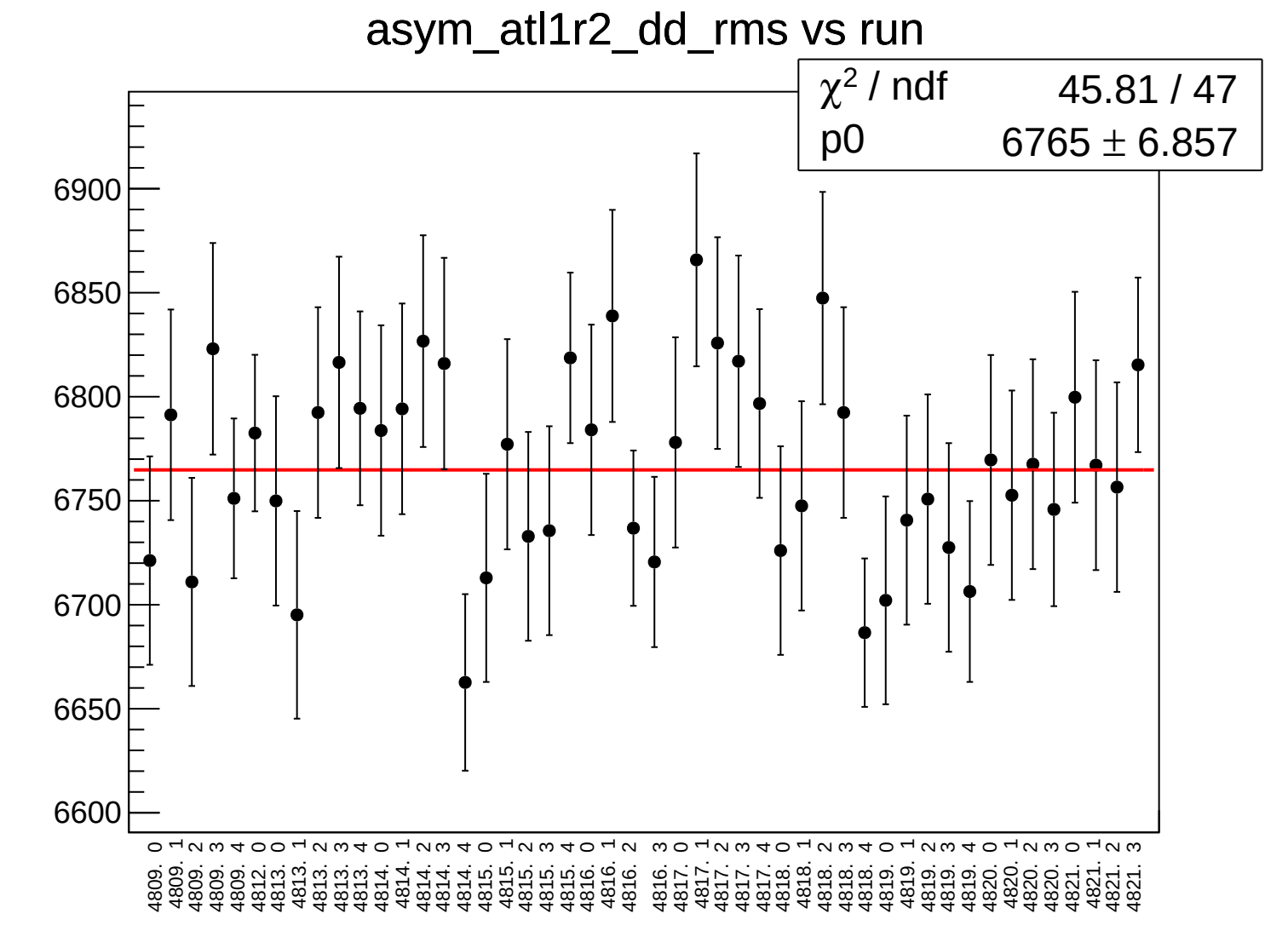

asym_atl1r2_dd_correction_mean vs run
χ² / ndf 41.51 / 47
p0 −1312 ± 570
10000
5000
0
−5000
−10000
−15000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 32.49
Std Dev 25.13
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

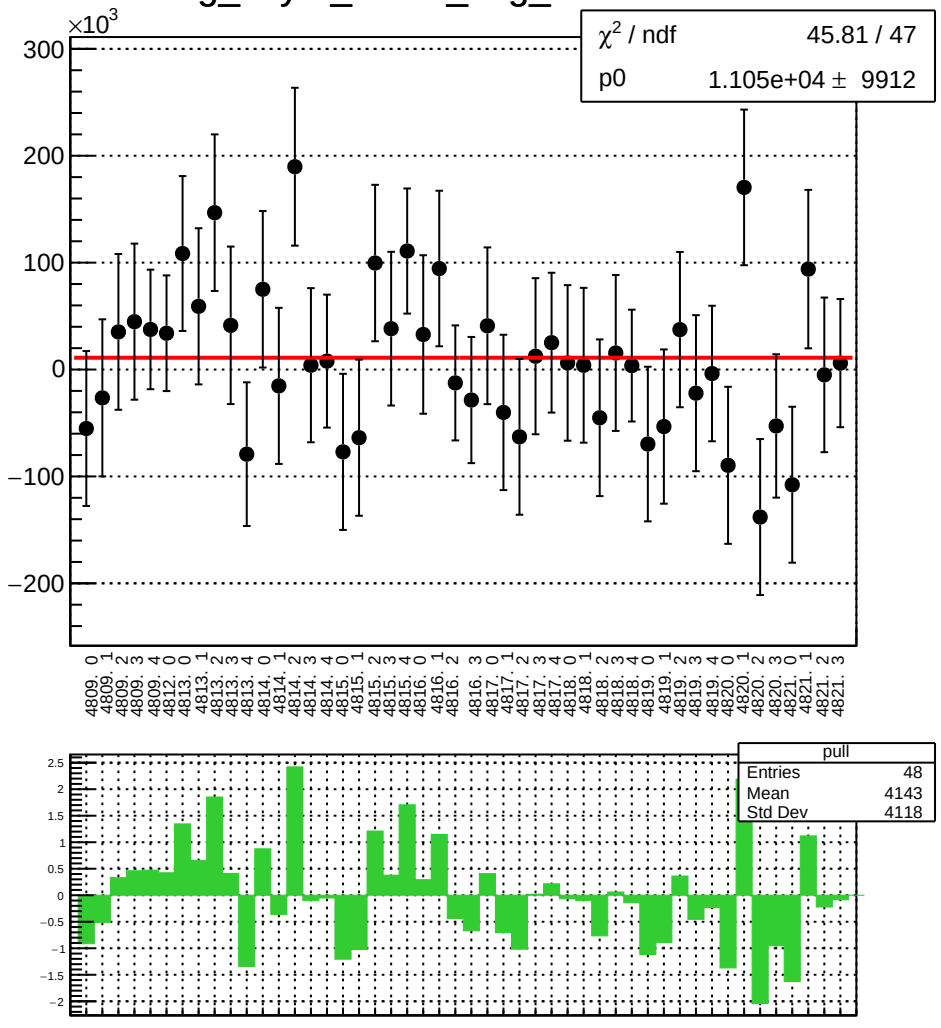

pull1D
Entries 48
Mean −0.07278
Std Dev 0.9271
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

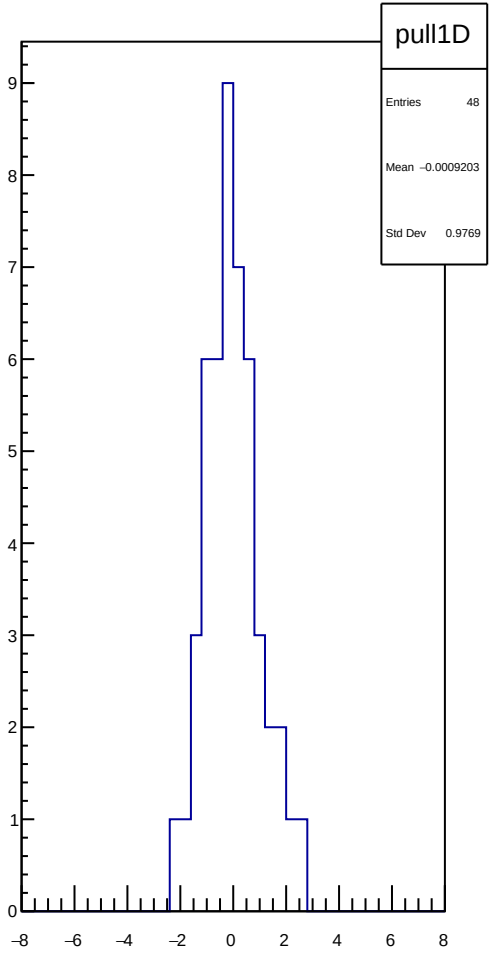

asym_atl1r2_dd_correction_rms vs run
χ² / ndf 2.974e+04 / 47
p0 391.5 ± 0.4031
600
550
500
450
400
350
300
250
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

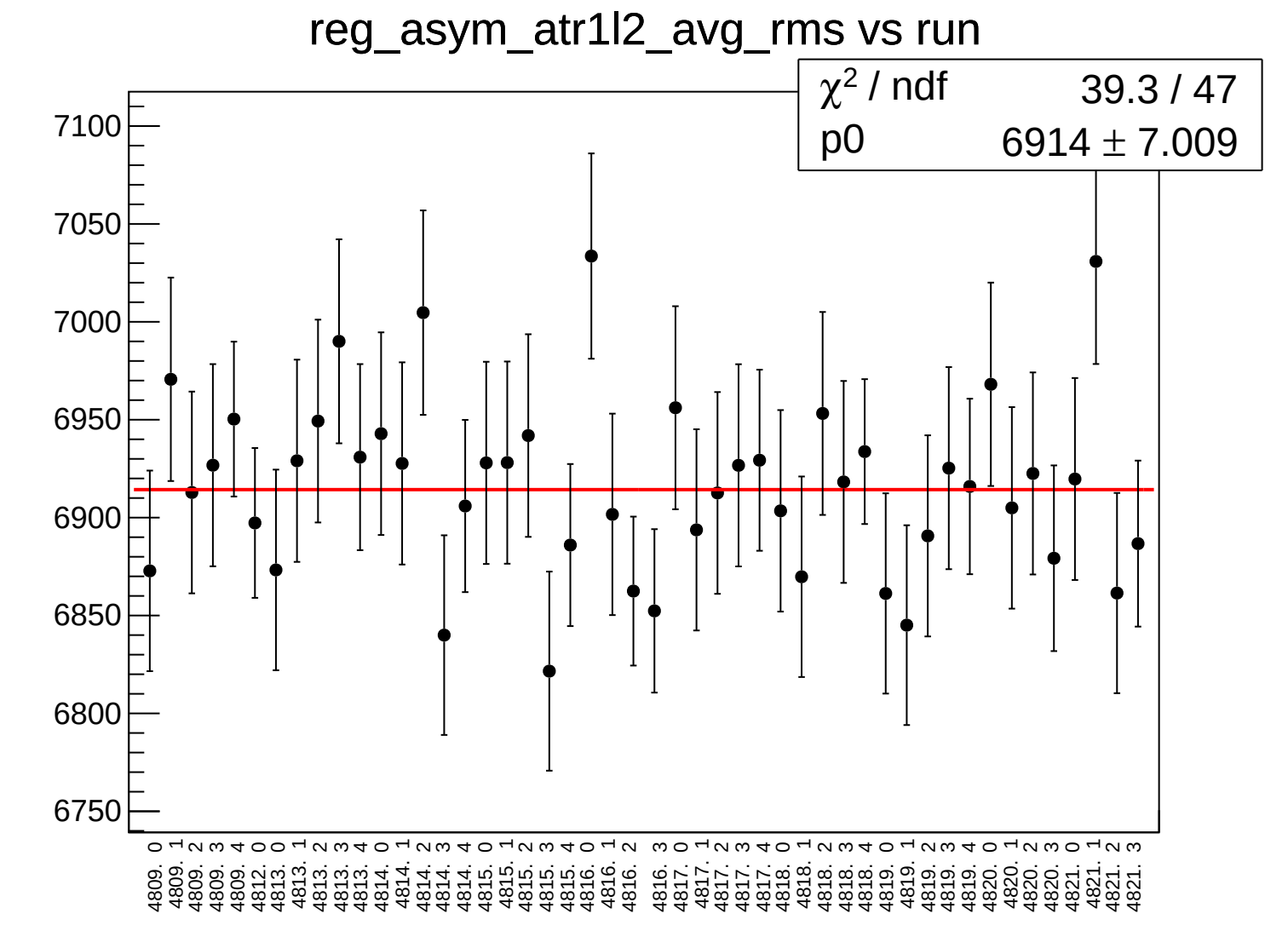

asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 68.67 / 47
p0 1.052e+04 ± 9697
300
200
100
0
−100
−200
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 59.49
Std Dev 61.67
2
1
0
−1
−2
−3

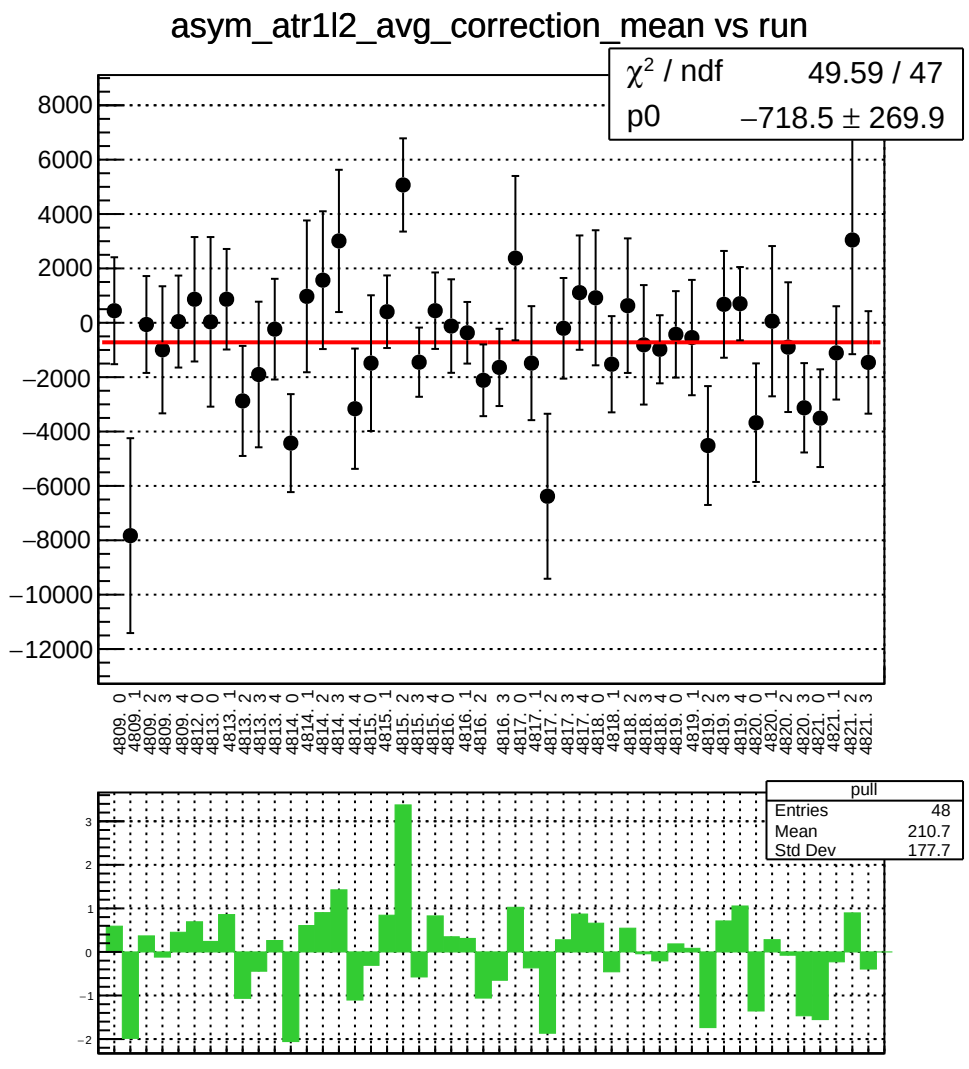

pull1D
Entries 48
Mean 0.02544
Std Dev 1.196
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

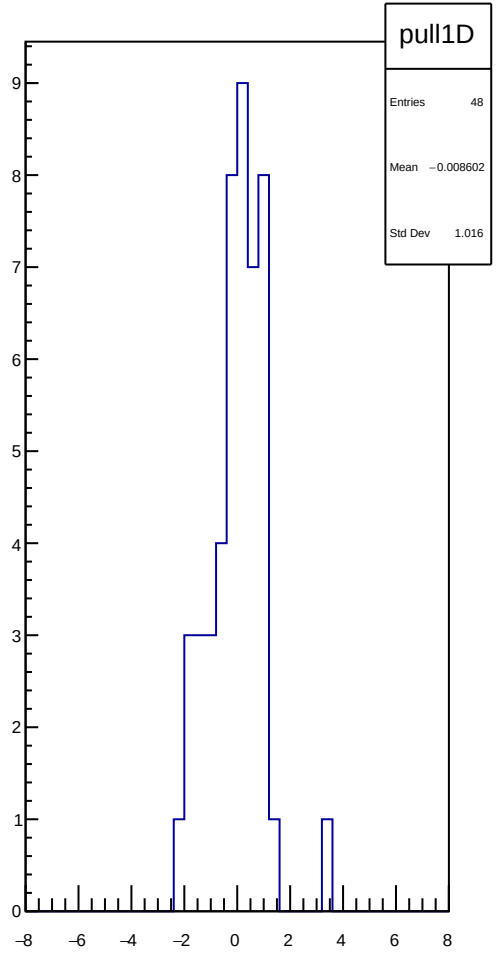

asym_atl1r2_dd_rms vs run
χ² / ndf 45.81 / 47
p0 6765 ± 6.857
6900
6850
6800
6750
6700
6650
6600
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

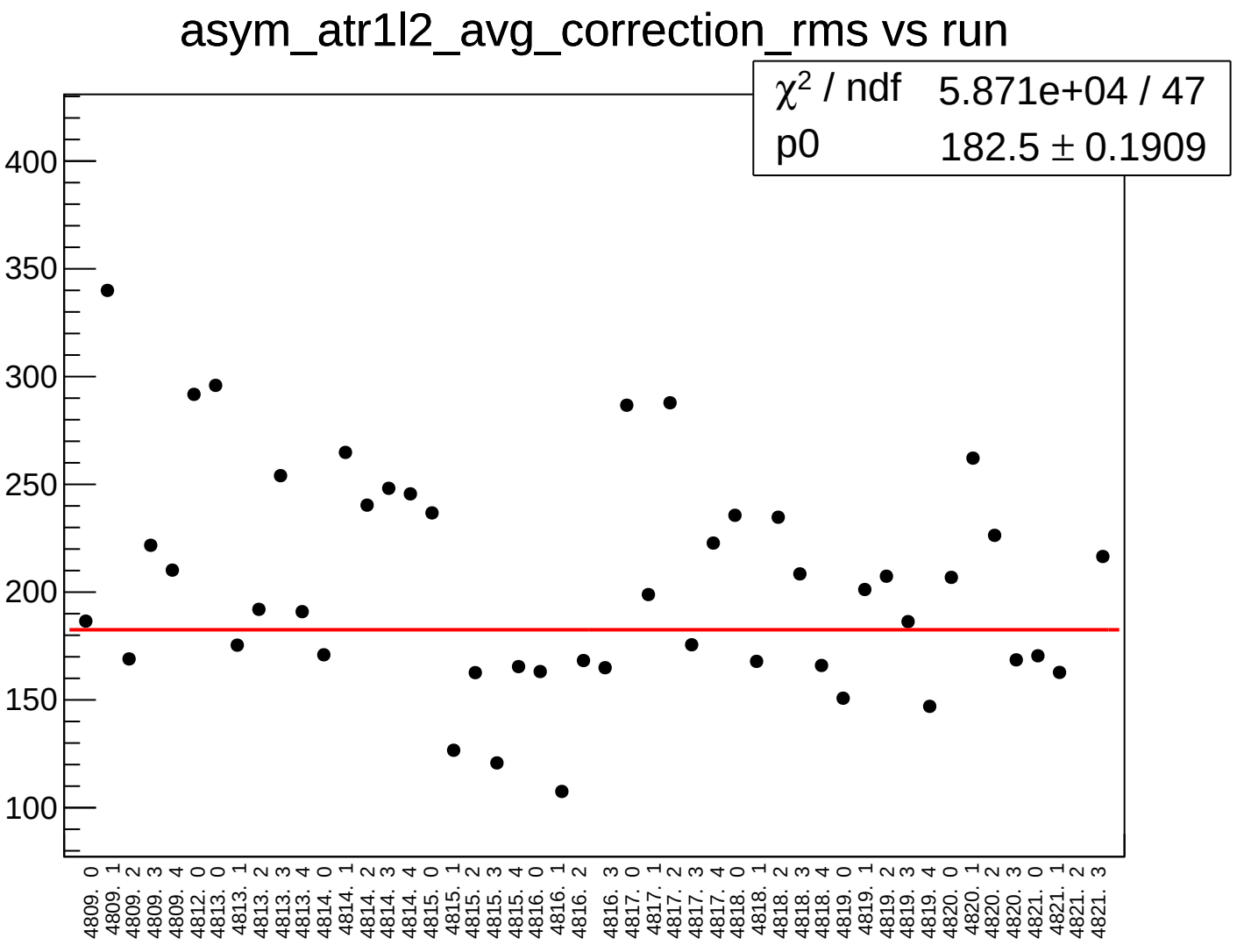

reg_asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 45.81 / 47
p0 1.105e+04 ± 9912
pull
Entries 48
Mean 4143
Std Dev 4118

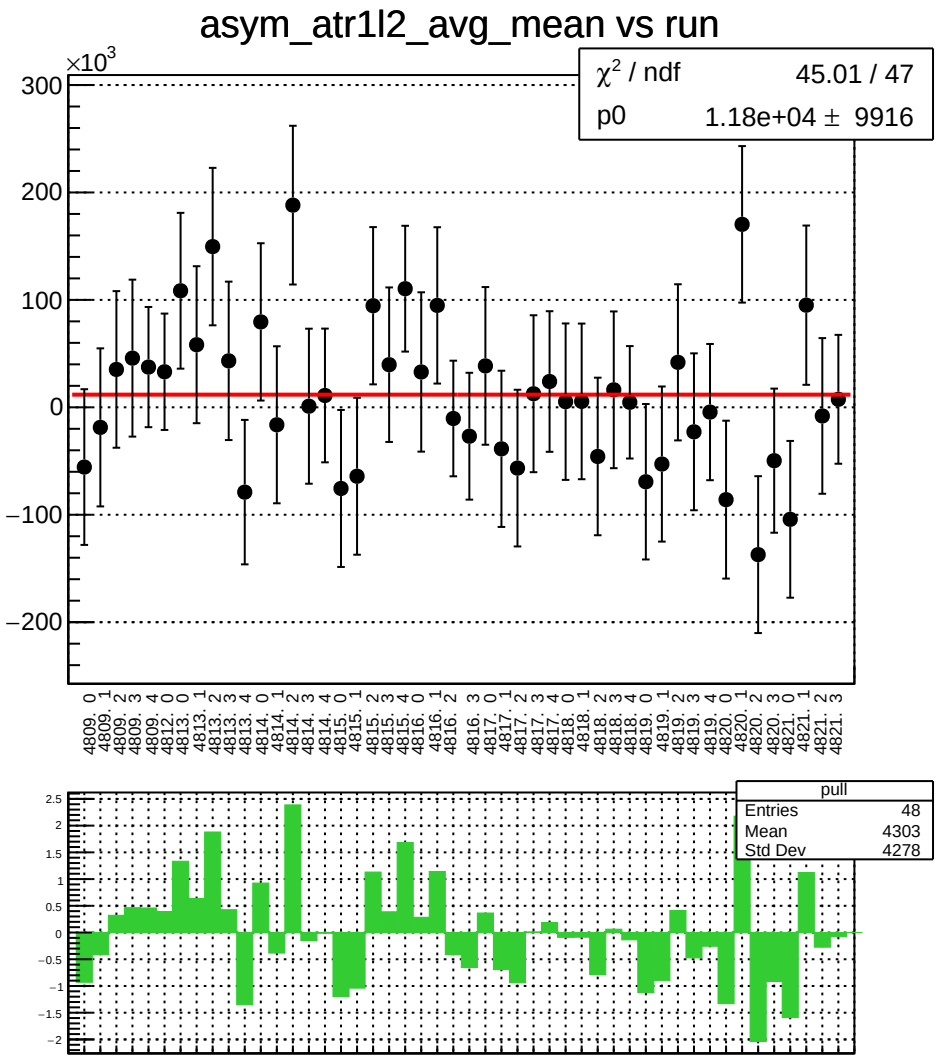

pull1D
Entries 48
Mean −0.0009203
Std Dev 0.9769

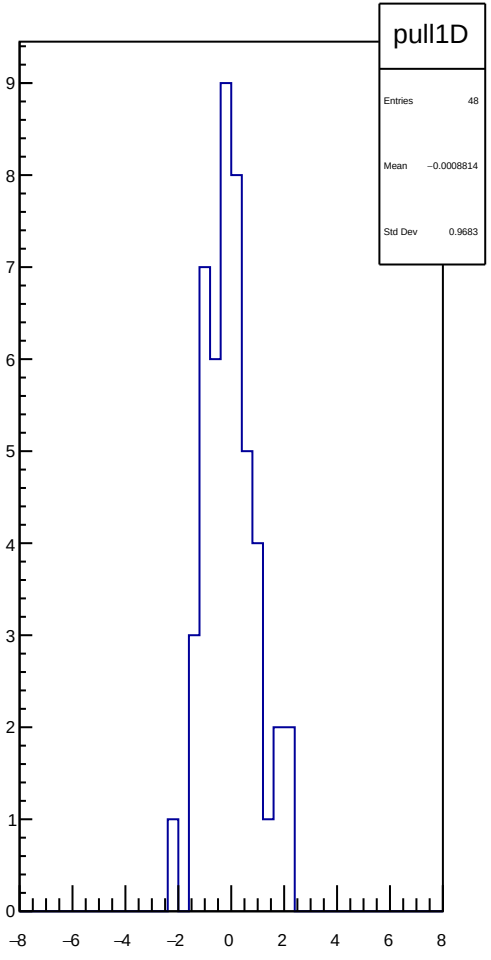

reg_asym_atr1l2_avg_rms vs run
χ² / ndf 39.3 / 47
p0 6914 ± 7.009
7100
7050
7000
6950
6900
6850
6800
6750
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

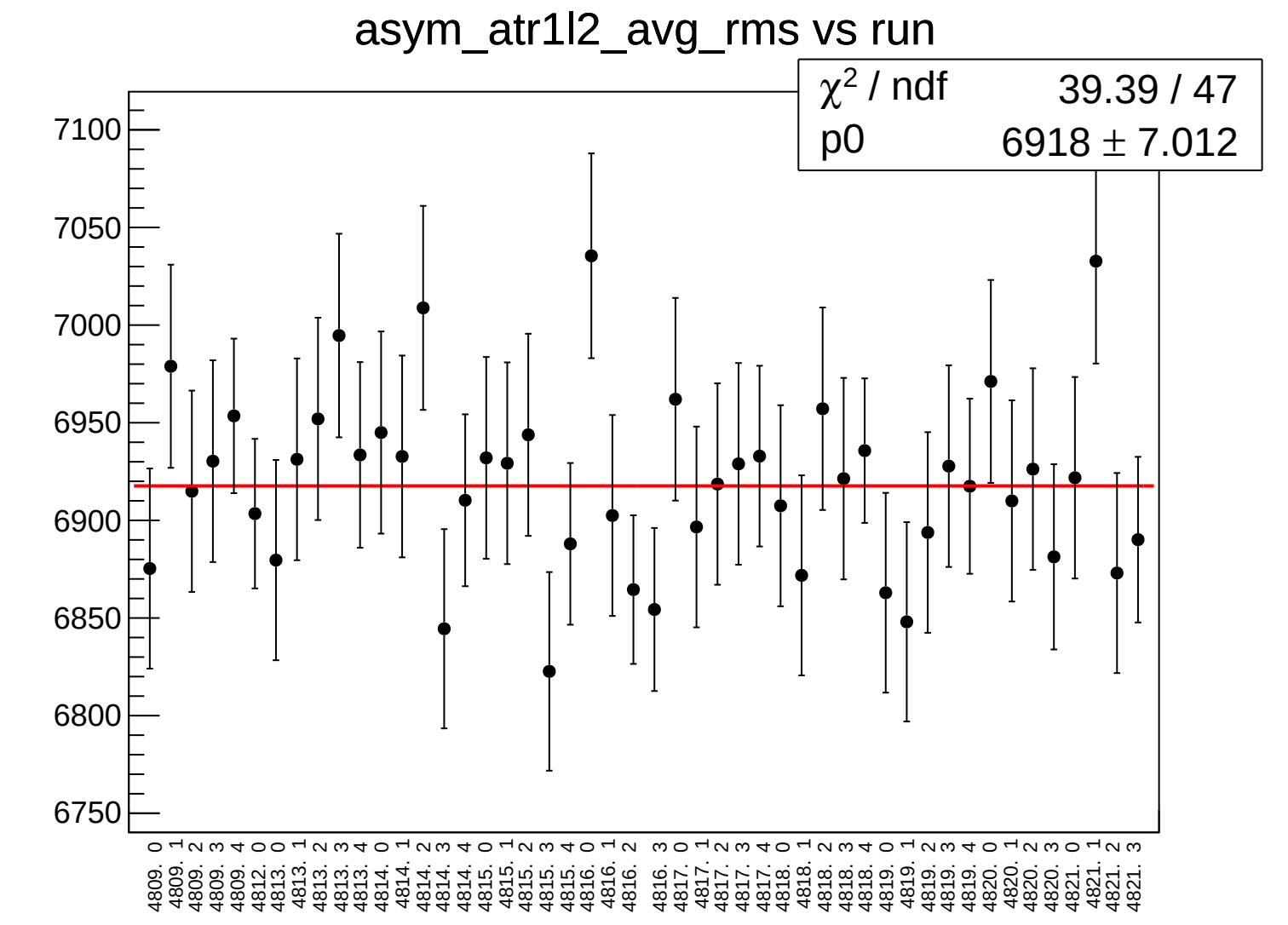

asym_atr1l2_avg_correction_mean vs run
χ² / ndf 49.59 / 47
p0 −718.5 ± 269.9
pull
Entries 48
Mean 210.7
Std Dev 177.7

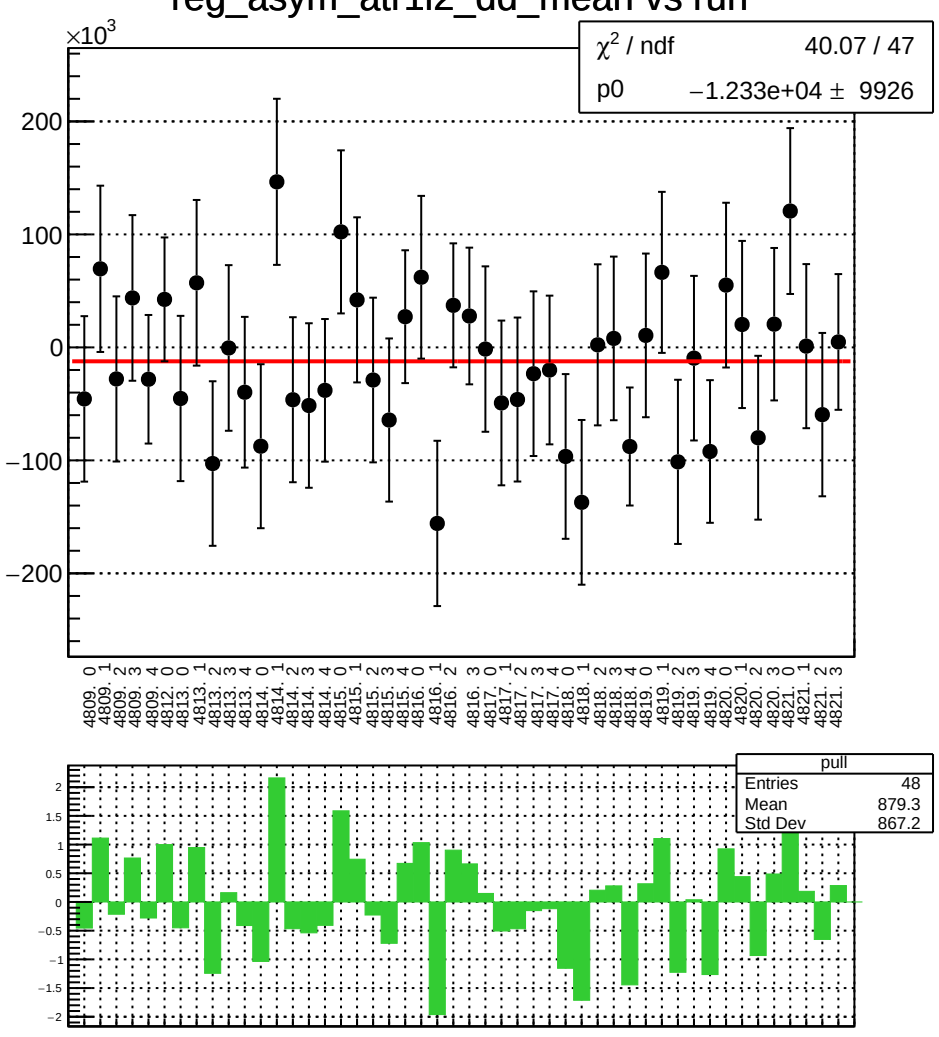

pull1D
Entries 48
Mean −0.008602
Std Dev 1.016


asym_atr1l2_avg_correction_rms vs run
χ² / ndf 5.871e+04 / 47
p0 182.5 ± 0.1909
400
350
300
250
200
150
100
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3


asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 45.01 / 47
p0 1.18e+04 ± 9916
pull
Entries 48
Mean 4303
Std Dev 4278


pull1D
Entries 48
Mean −0.0008814
Std Dev 0.9683


asym_atr1l2_avg_rms vs run
χ² / ndf 39.39 / 47
p0 6918 ± 7.012
7100
7050
7000
6950
6900
6850
6800
6750
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3


reg_asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 40.07 / 47
p0 −1.233e+04 ± 9926
200
100
0
−100
−200
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
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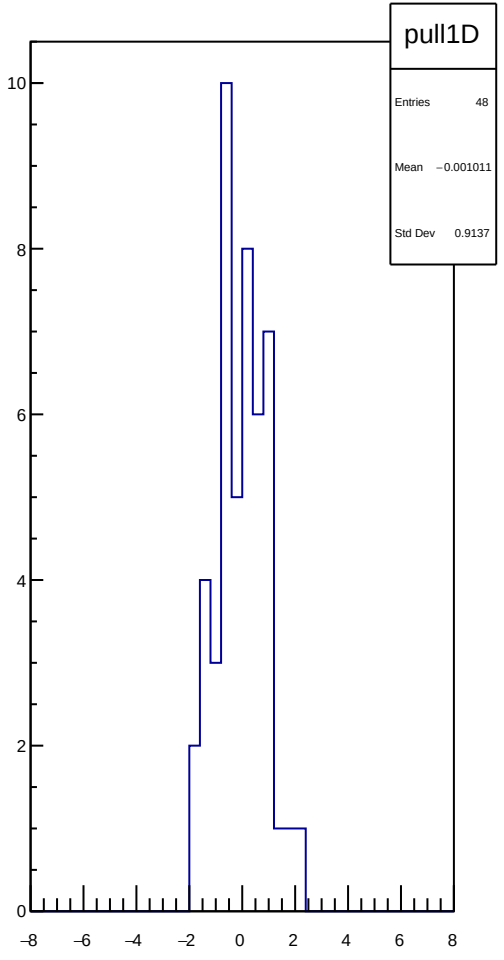
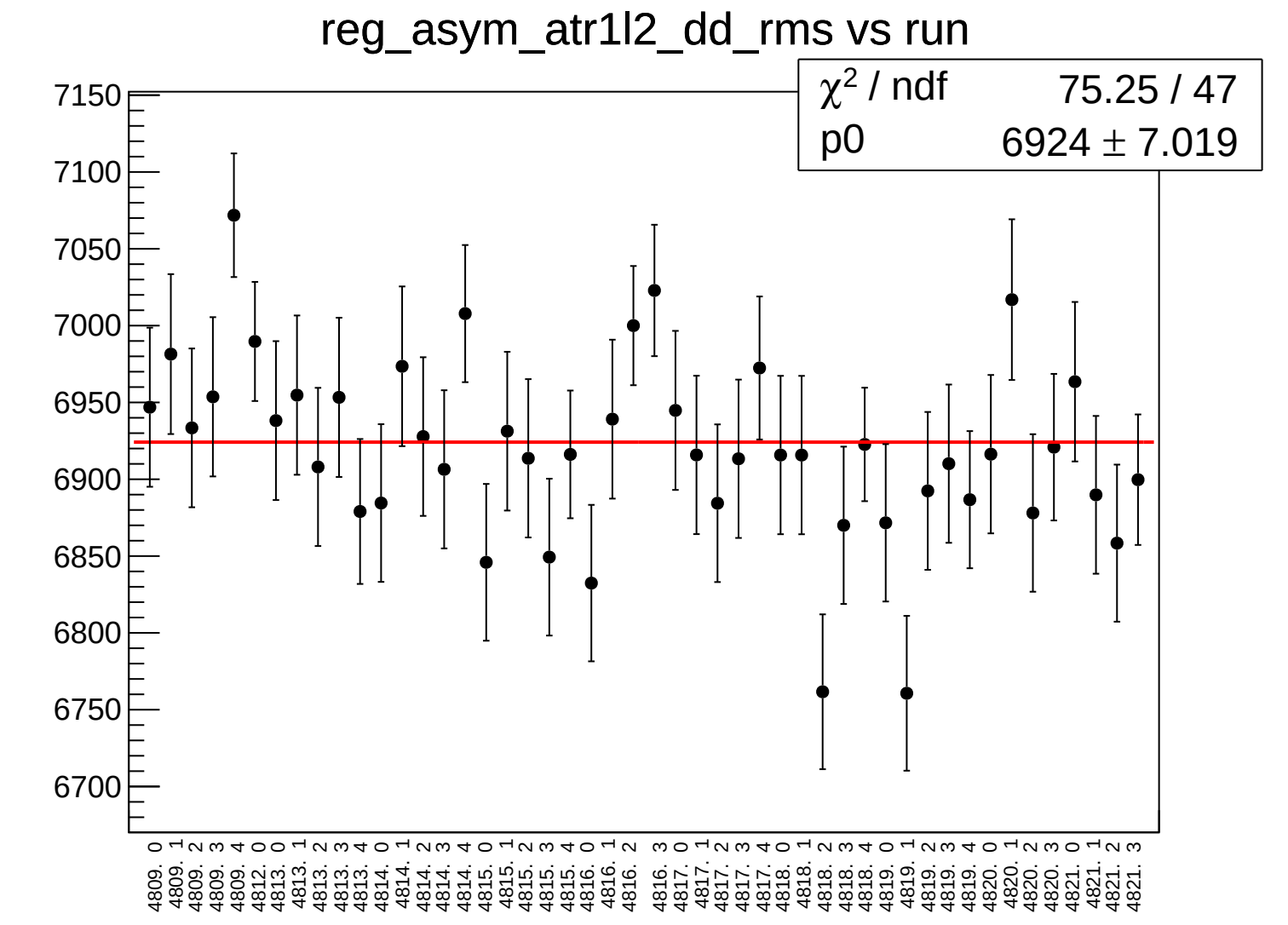
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 879.3
Std Dev 867.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 48
Mean −0.001011
Std Dev 0.9137
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atr1l2_dd_rms vs run
χ² / ndf 75.25 / 47
p0 6924 ± 7.019
7150
7100
7050
7000
6950
6900
6850
6800
6750
6700
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
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4815. 2
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4816. 0
4816. 1
4816. 2
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4817. 4
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4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
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4820. 1
4820. 2
4820. 3
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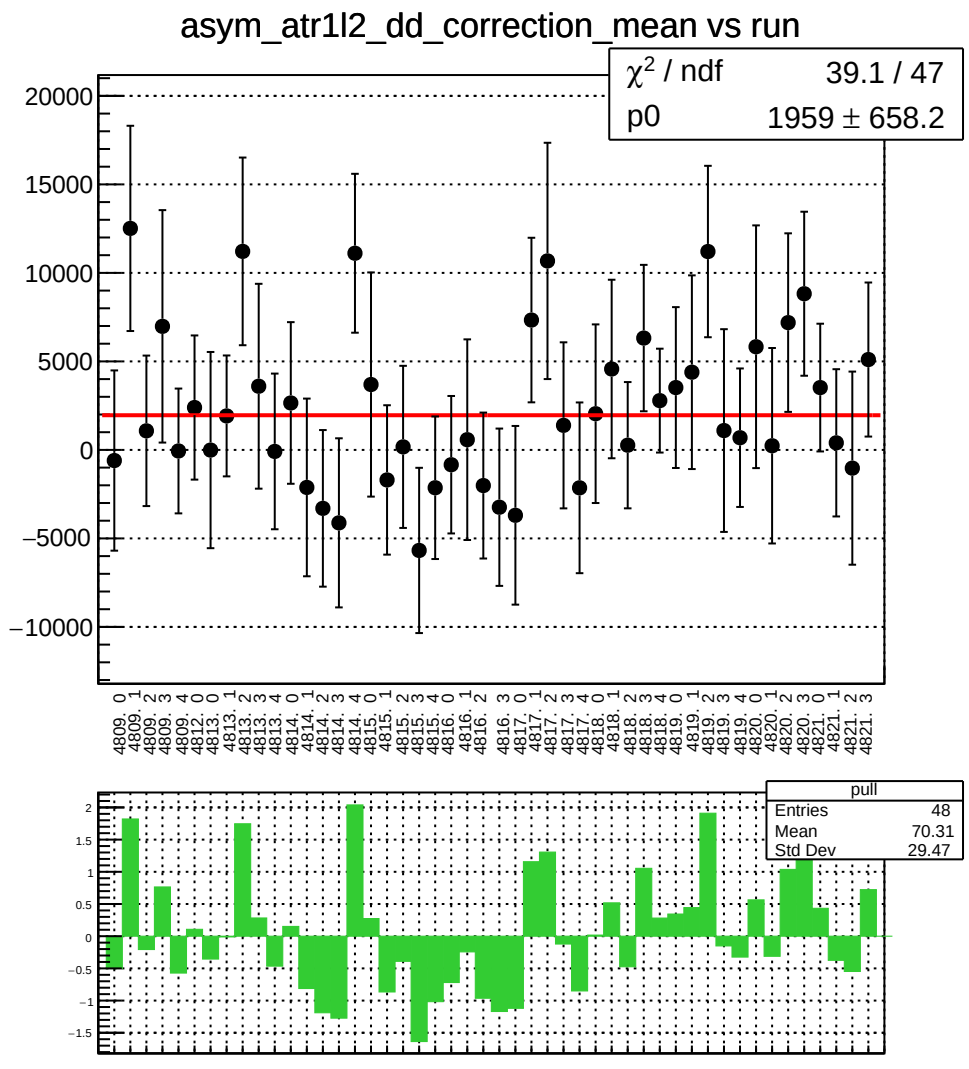
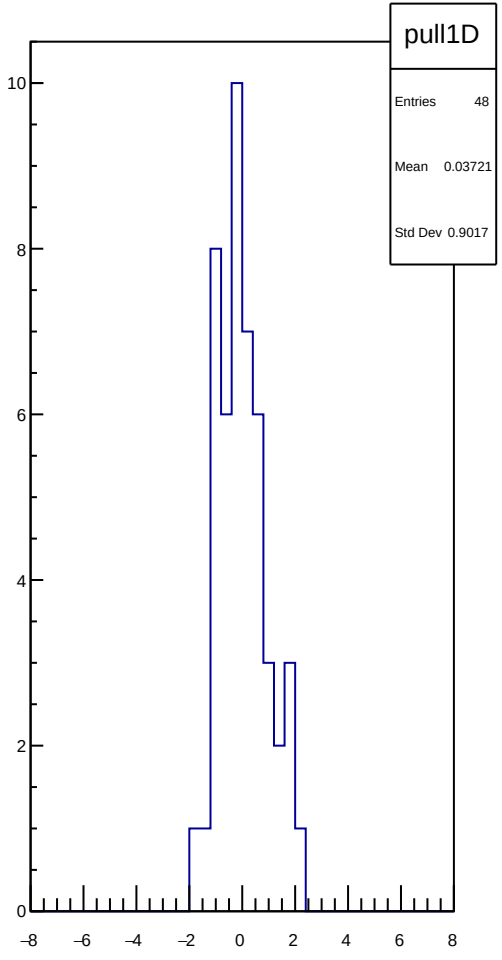
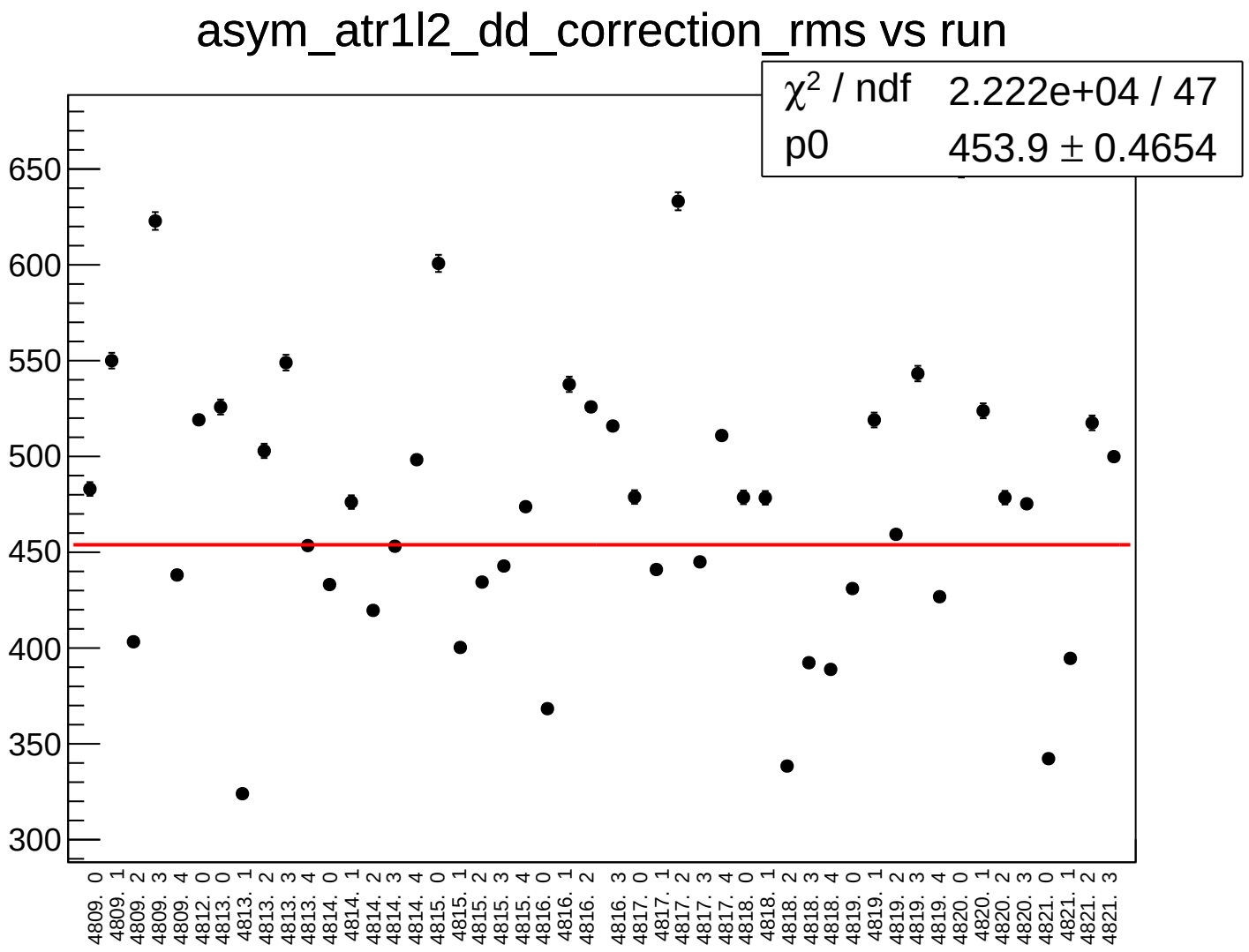
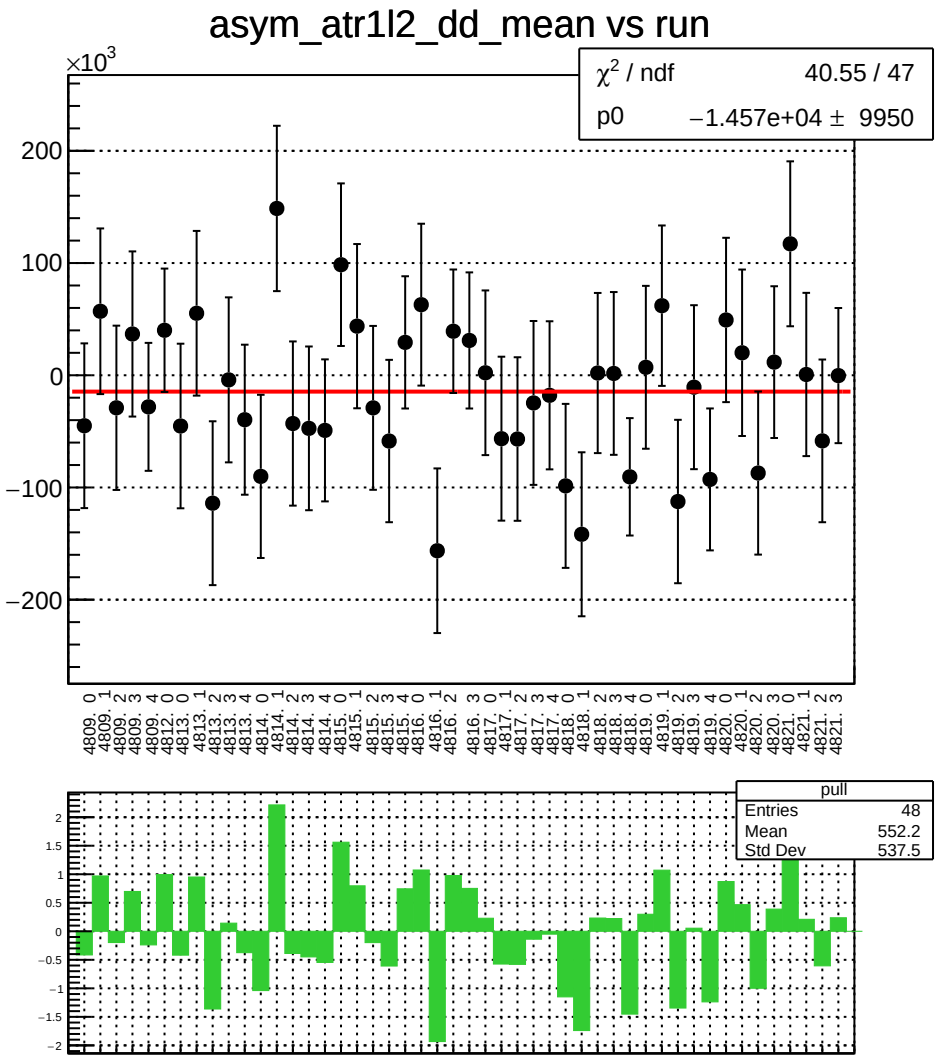
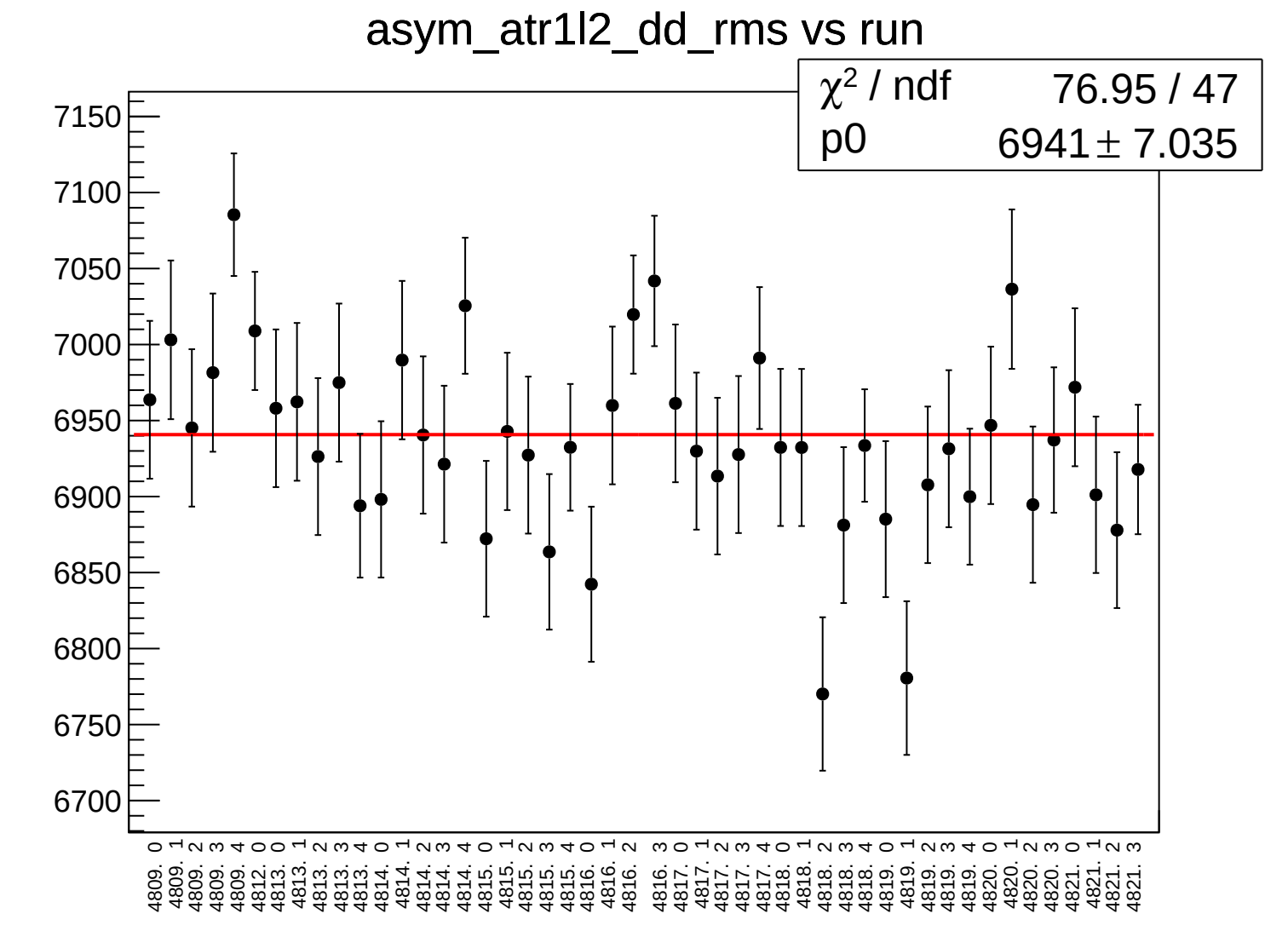
4821. 1
4821. 2
4821. 3

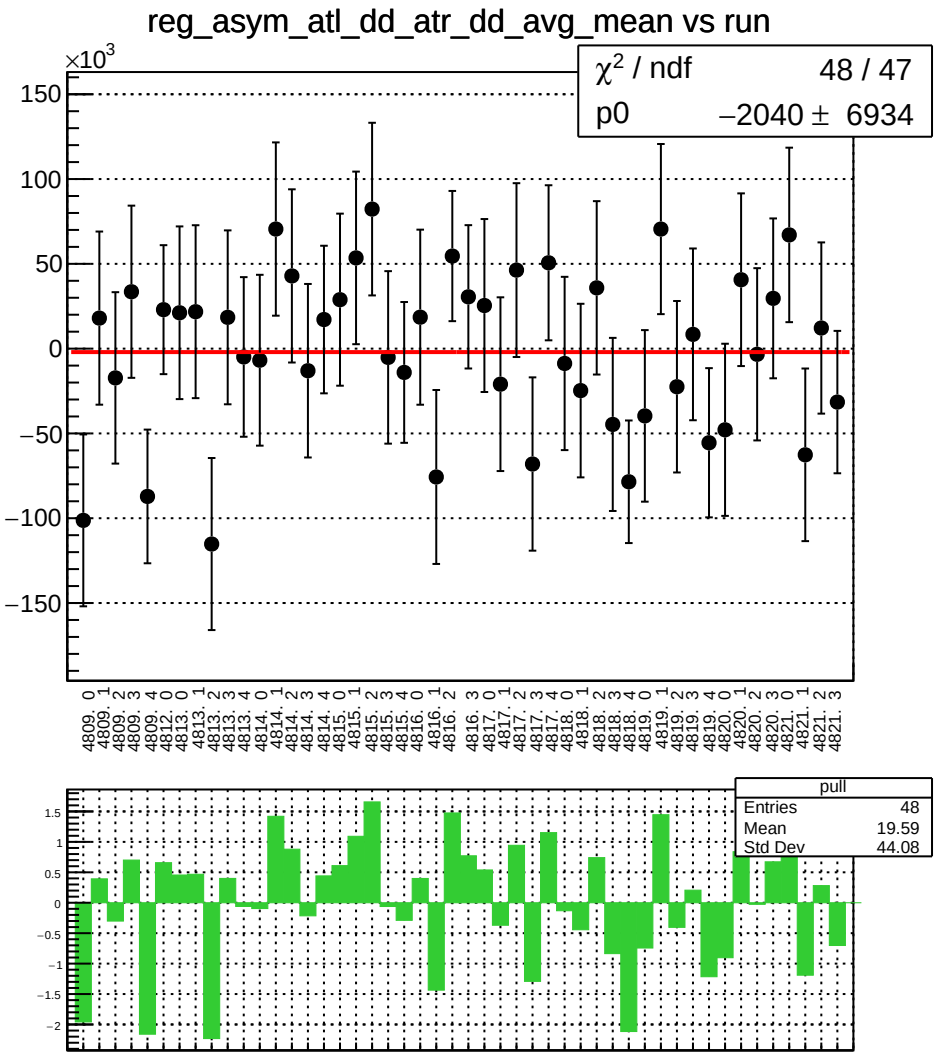

asym_atr1l2_dd_correction_mean vs run
χ² / ndf 39.1 / 47
p0 1959 ± 658.2
pull
Entries 48
Mean 70.31
Std Dev 29.47

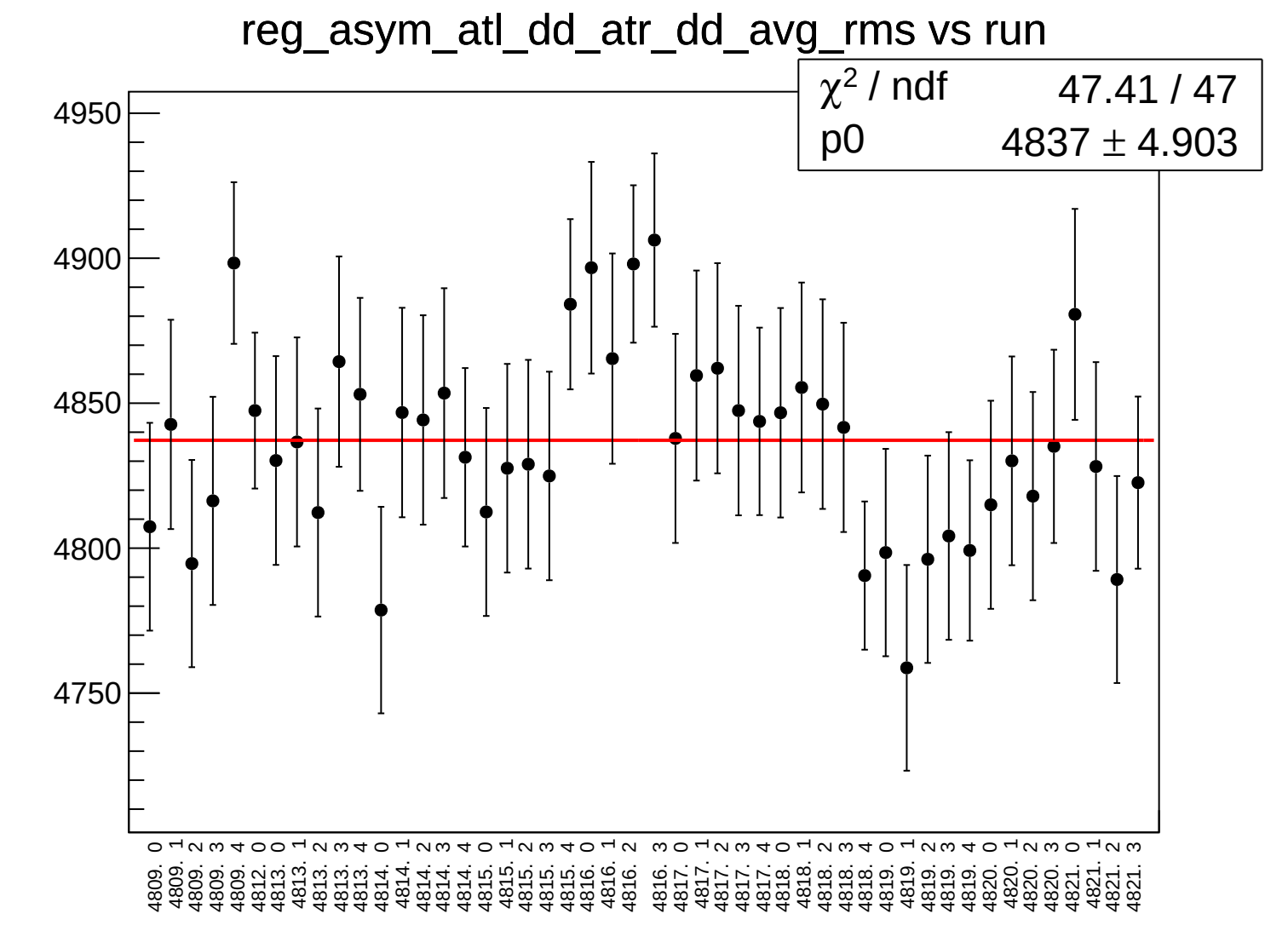

pull1D
Entries 48
Mean 0.03721
Std Dev 0.9017


asym_atr1l2_dd_correction_rms vs run
χ² / ndf 2.222e+04 / 47
p0 453.9 ± 0.4654
650
600
550
500
450
400
350
300
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3


asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 40.55 / 47
p0 −1.457e+04 ± 9950
200
100
0
−100
−200
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 552.2
Std Dev 537.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 48
Mean −0.001807
Std Dev 0.9191
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr1l2_dd_rms vs run
χ² / ndf 76.95 / 47
p0 6941 ± 7.035
7150
7100
7050
7000
6950
6900
6850
6800
6750
6700
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3


reg_asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 48 / 47
p0 −2040 ± 6934
150
100
50
0
−50
−100
−150
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 19.59
Std Dev 44.08
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 48
Mean 0.01674
Std Dev 0.9999
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 47.41 / 47
p0 4837 ± 4.903
4950
4900
4850
4800
4750
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
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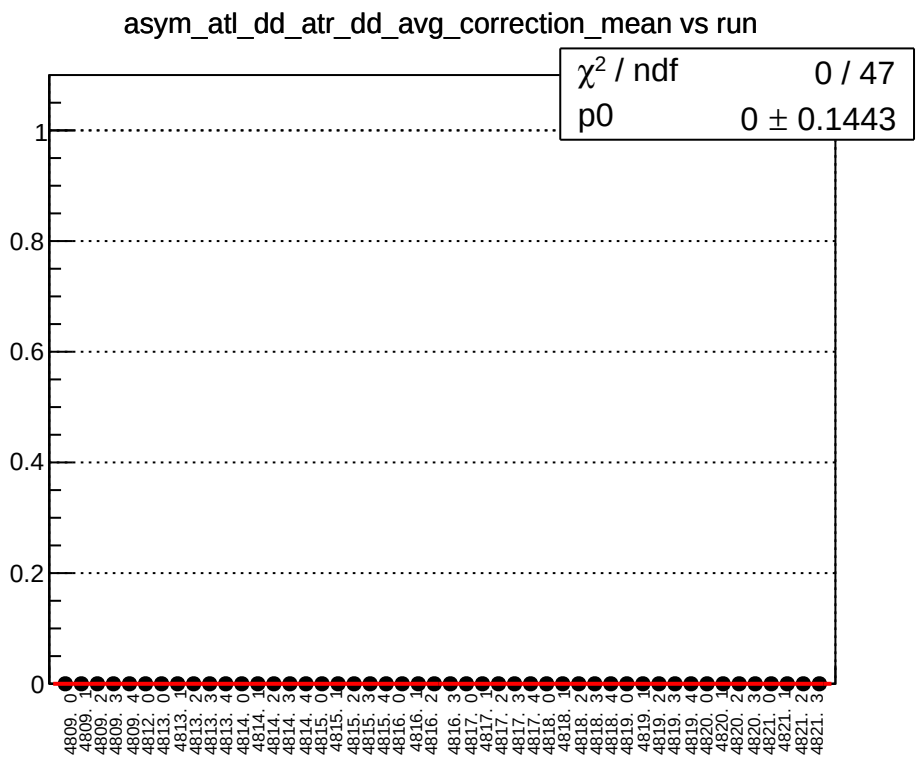
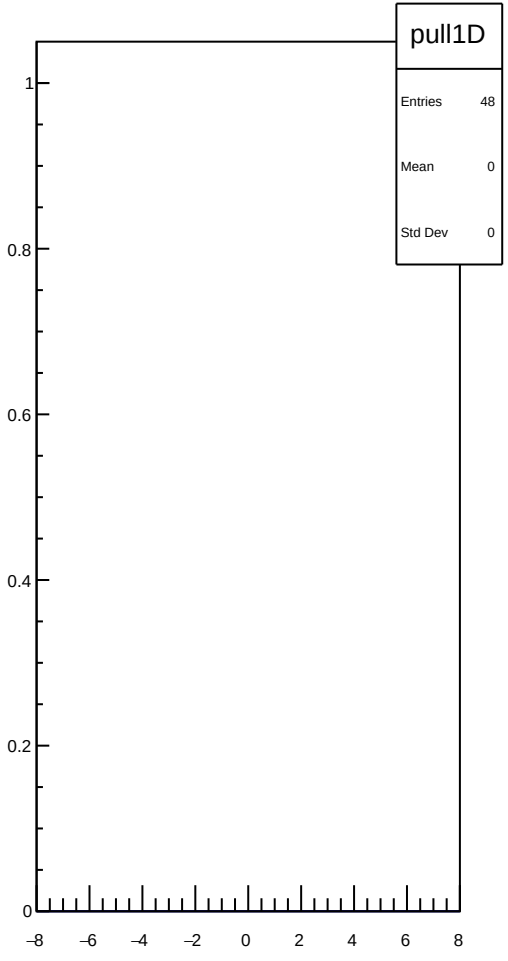
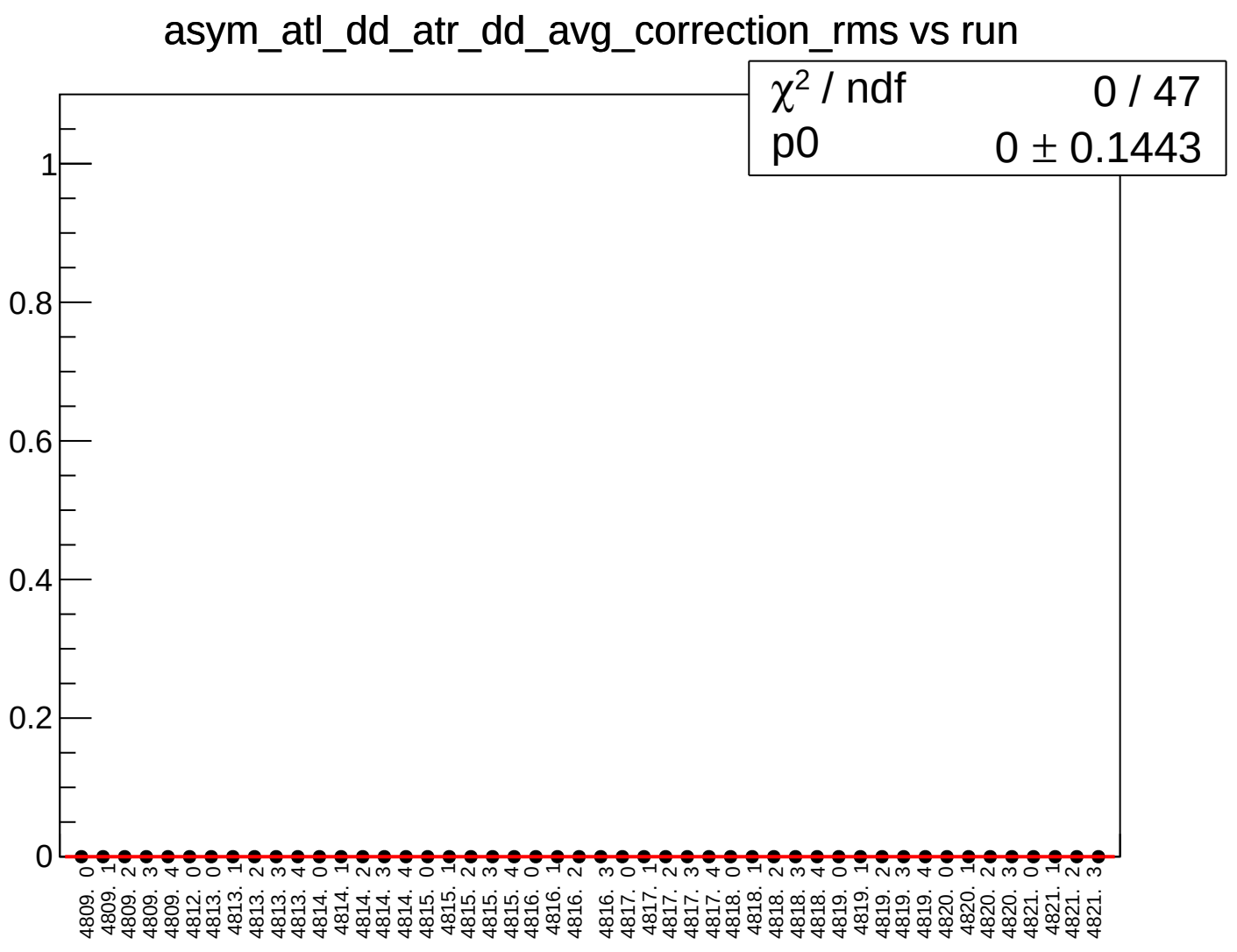
4821. 0
4821. 1
4821. 2
4821. 3


asym_atl_dd_atr_dd_avg_correction_mean vs run
χ² / ndf 0 / 47
p0 0 ± 0.1443
1
0.8
0.6
0.4
0.2
0
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3


pull1D
Entries 48
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8


asym_atl_dd_atr_dd_avg_correction_rms vs run
χ² / ndf 0 / 47
p0 0 ± 0.1443
1
0.8
0.6
0.4
0.2
0
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
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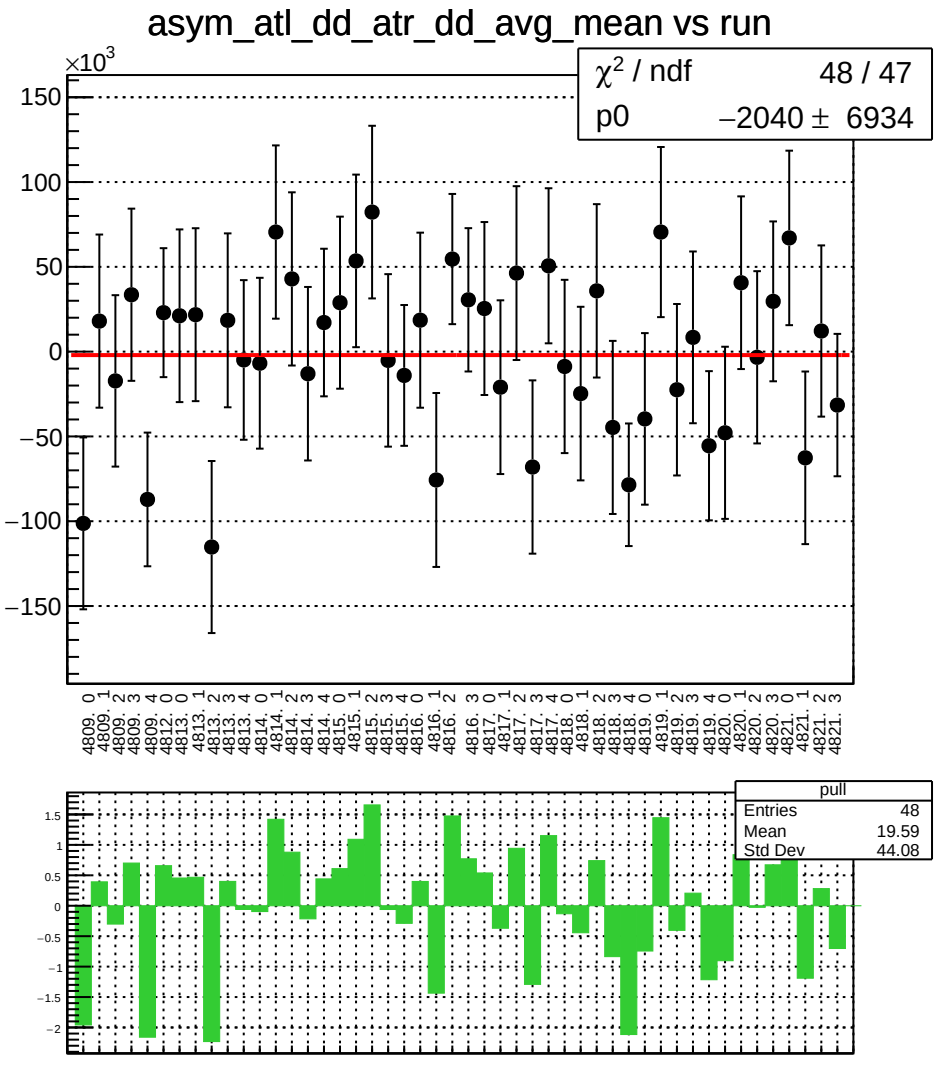
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3


asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 48 / 47
p0 −2040 ± 6934
150
100
50
0
−50
−100
−150
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
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4816. 1
4816. 2
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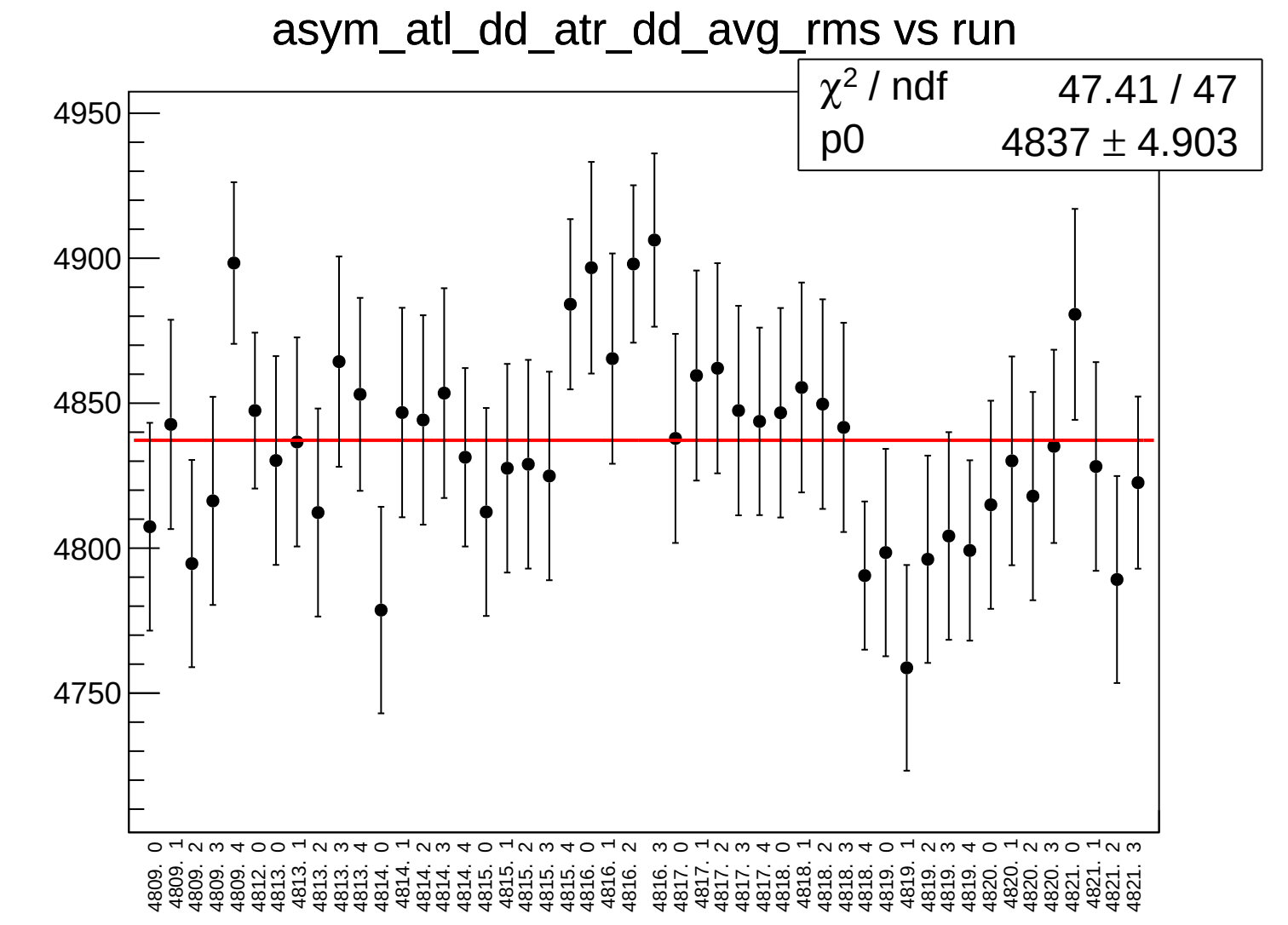
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 19.59
Std Dev 44.08
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 48
Mean 0.01674
Std Dev 0.9999
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 47.41 / 47
p0 4837 ± 4.903
4950
4900
4850
4800
4750
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
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4814. 2
4814. 3
4814. 4
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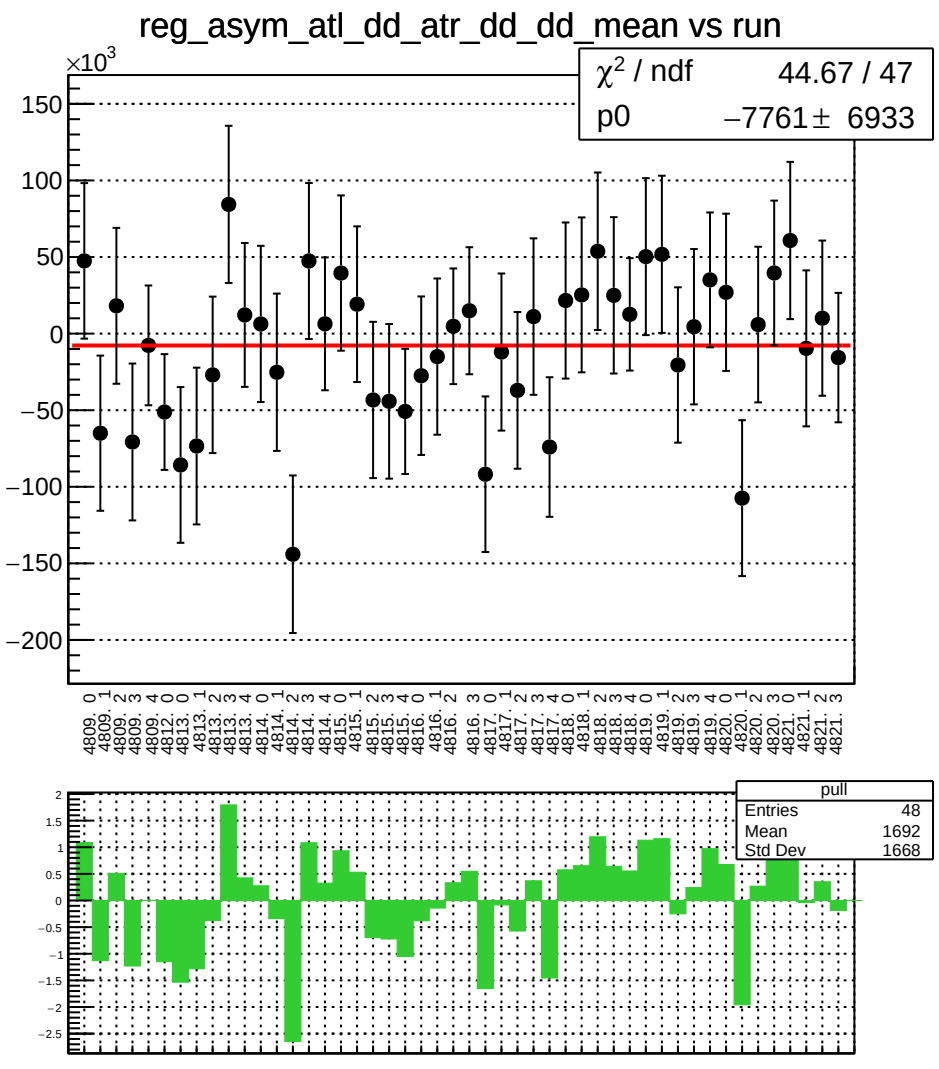
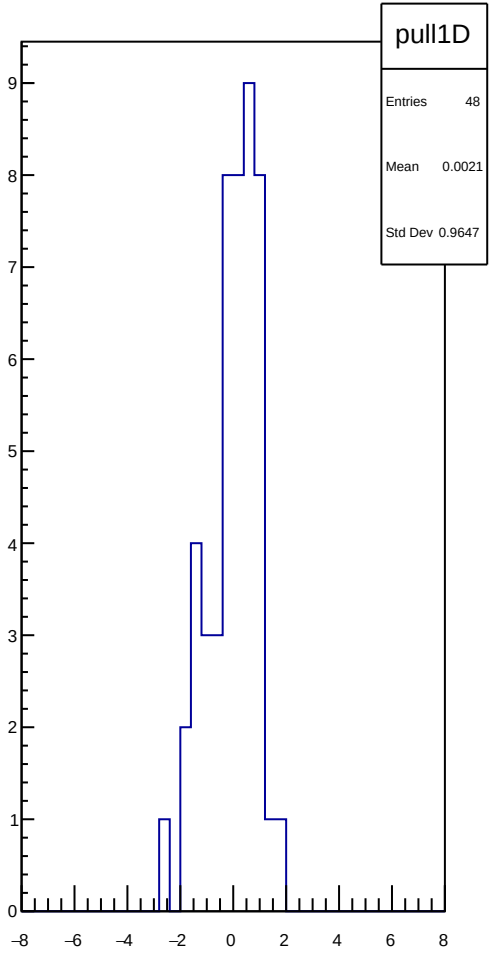
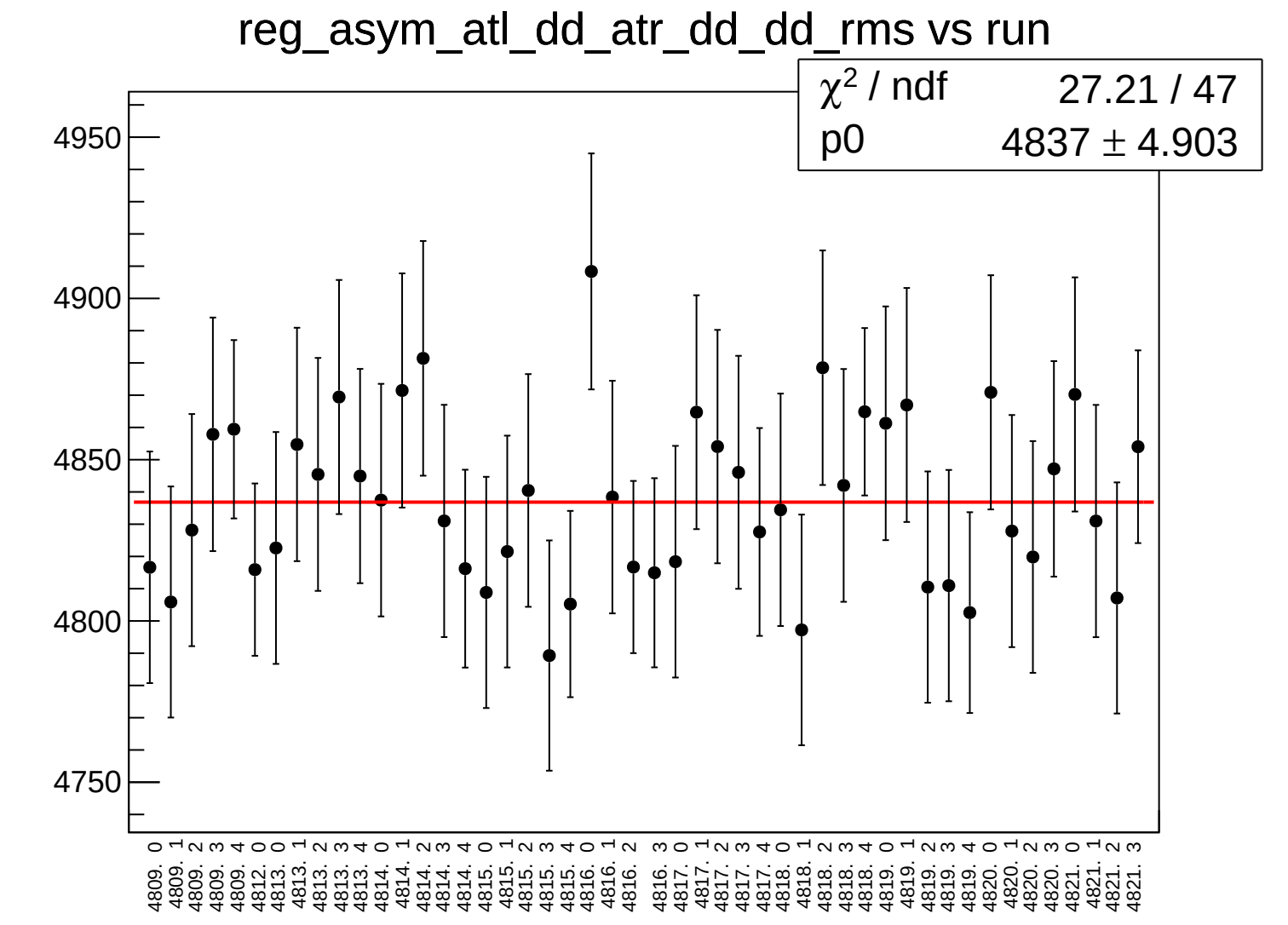
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3


reg_asym_atl_dd_atr_dd_dd_mean vs run
×10^3
χ^2 / ndf 44.67 / 47
p0 −7761 ± 6933
150
100
50
0
−50
−100
−150
−200
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 1692
Std Dev 1668
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 48
Mean 0.0021
Std Dev 0.9647
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 27.21 / 47
p0 4837 ± 4.903
4950
4900
4850
4800
4750
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
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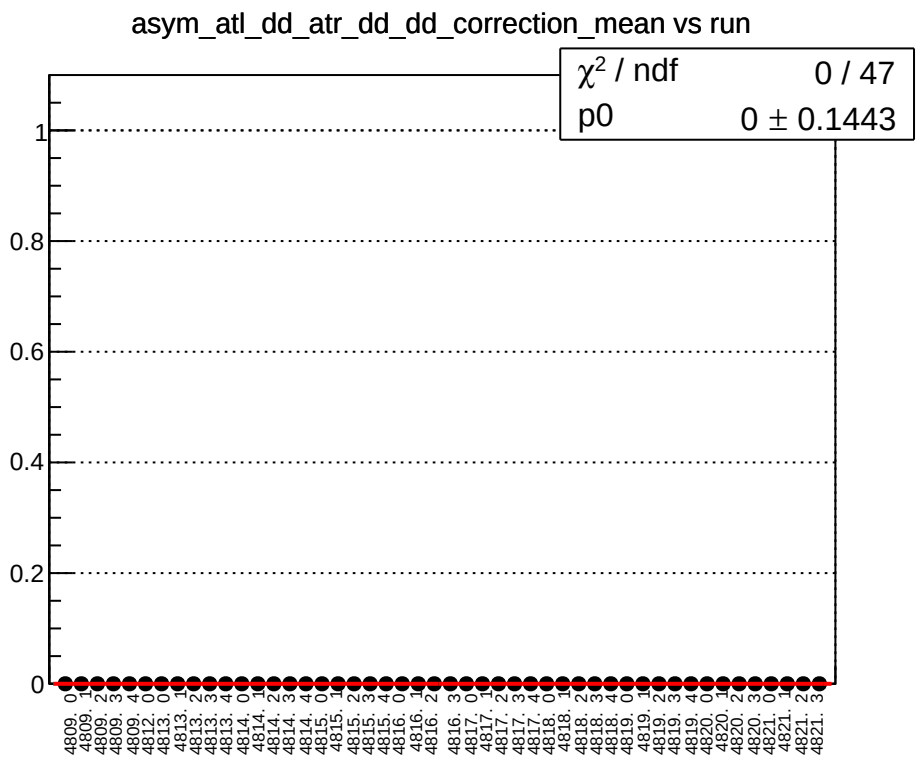
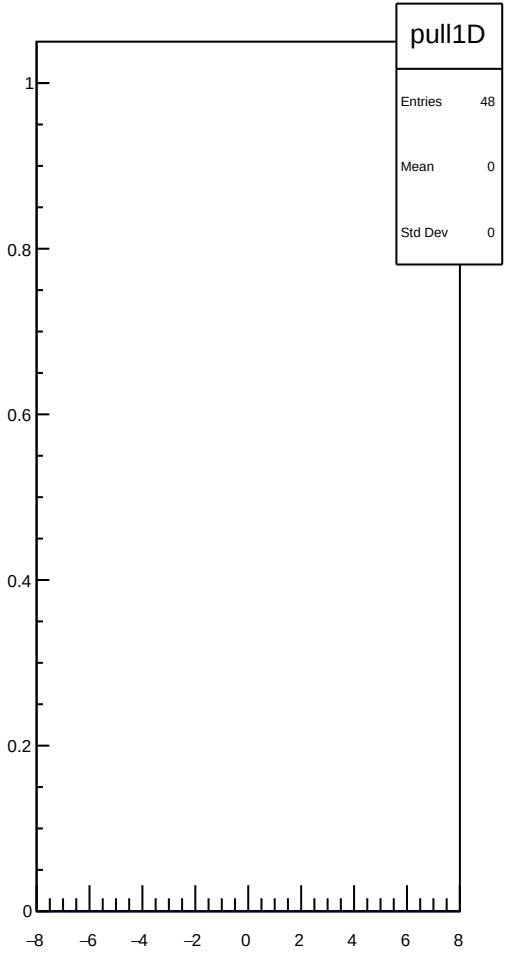
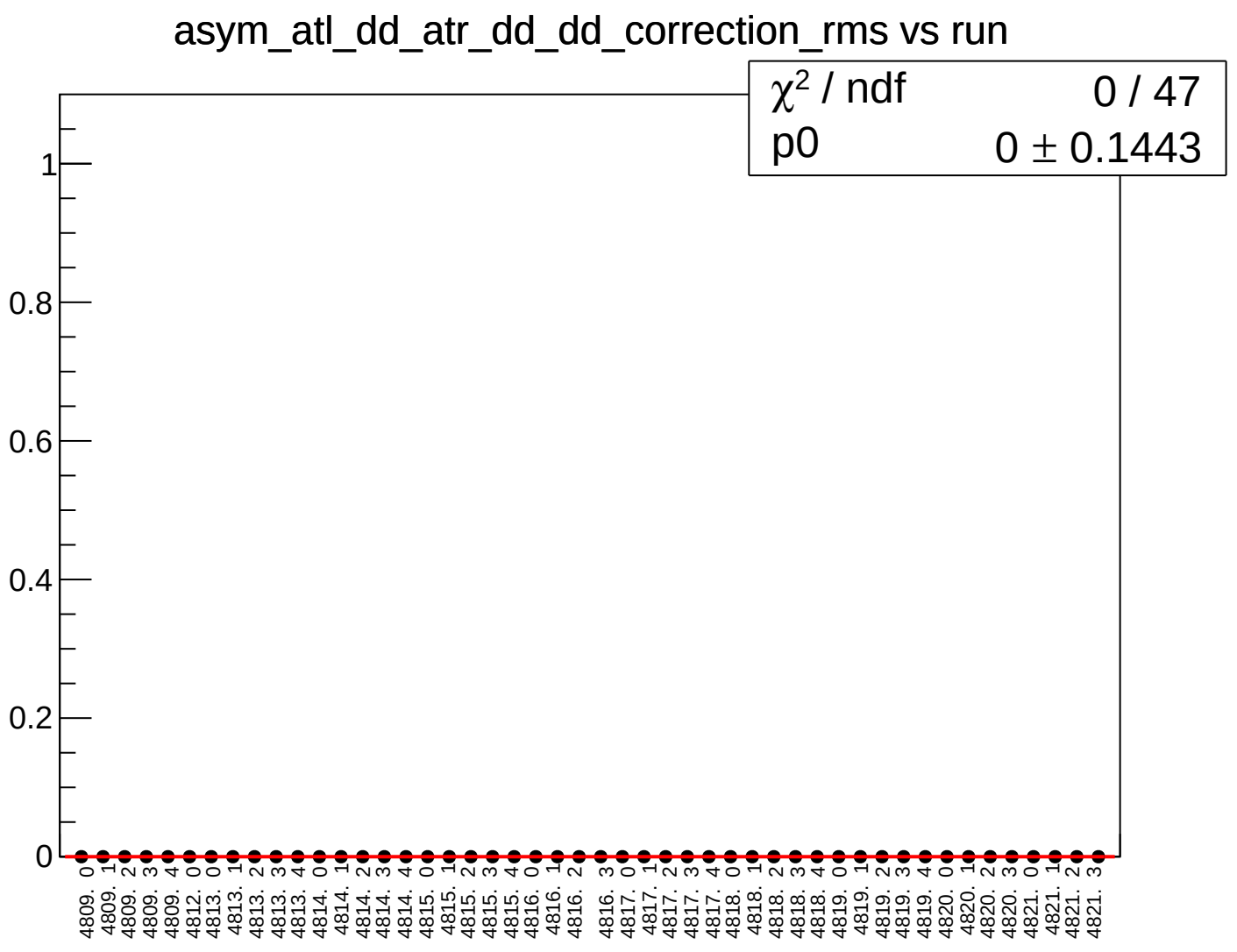
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3


asym_atl_dd_atr_dd_dd_correction_mean vs run
χ² / ndf 0 / 47
p0 0 ± 0.1443
1
0.8
0.6
0.4
0.2
0
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3


pull1D
Entries 48
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8


asym_atl_dd_atr_dd_dd_correction_rms vs run
χ² / ndf 0 / 47
p0 0 ± 0.1443
1
0.8
0.6
0.4
0.2
0
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
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4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
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4815. 3
4815. 4
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4816. 1
4816. 2
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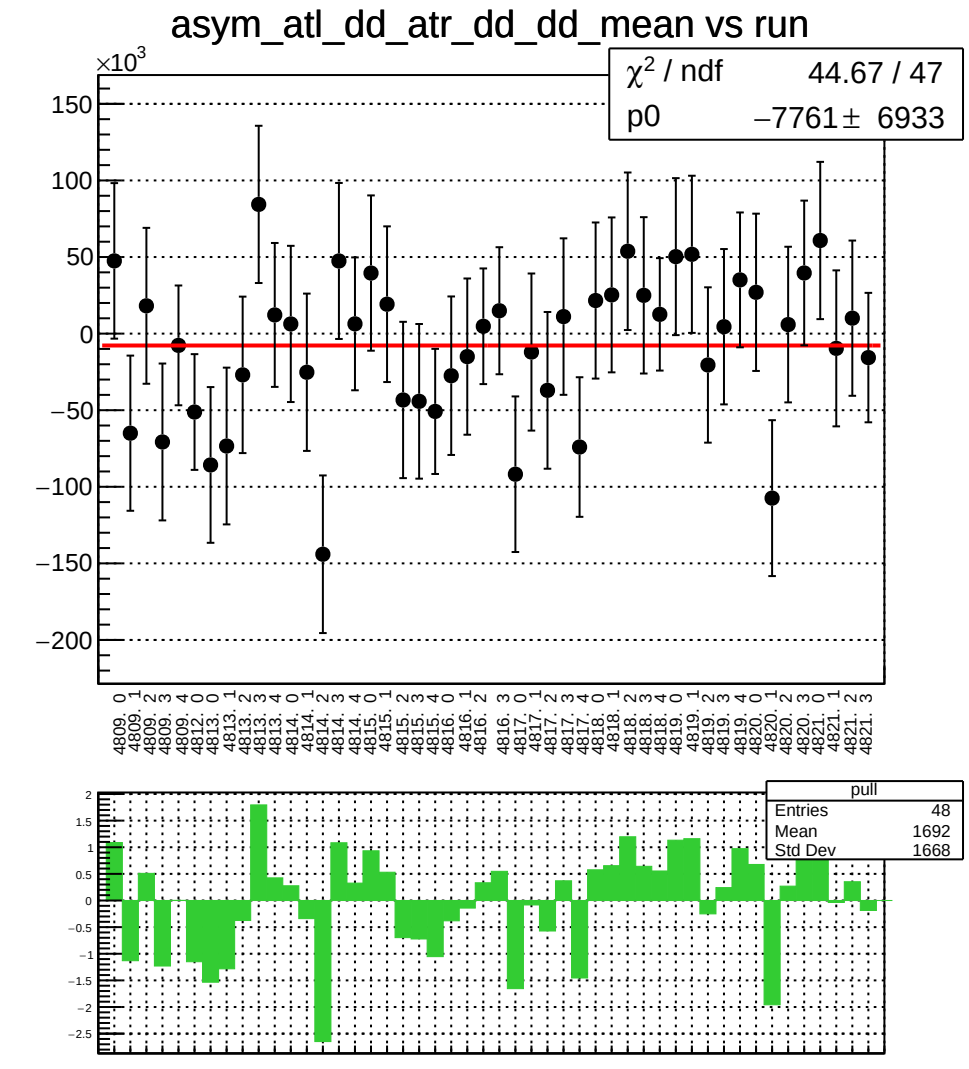
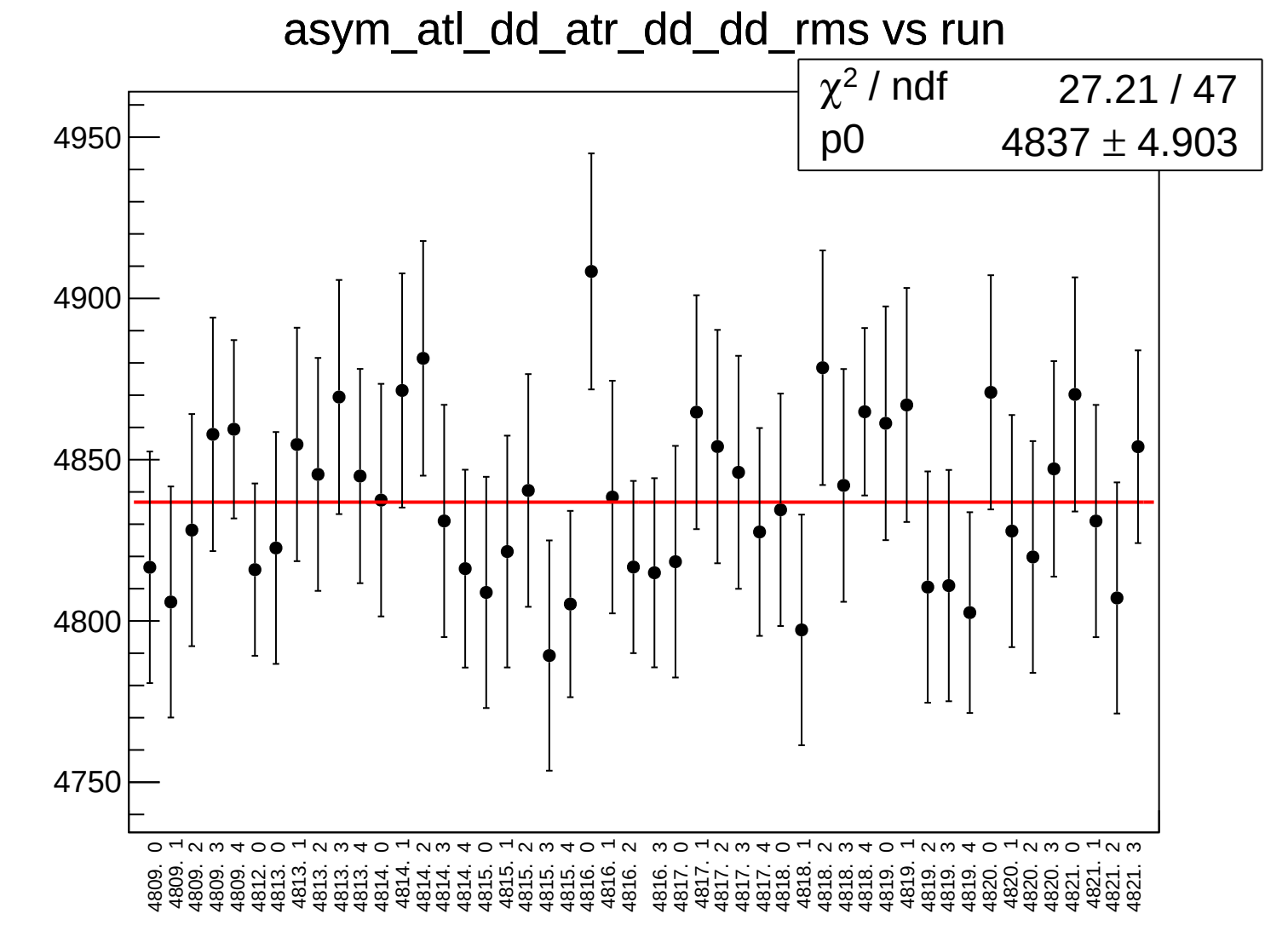
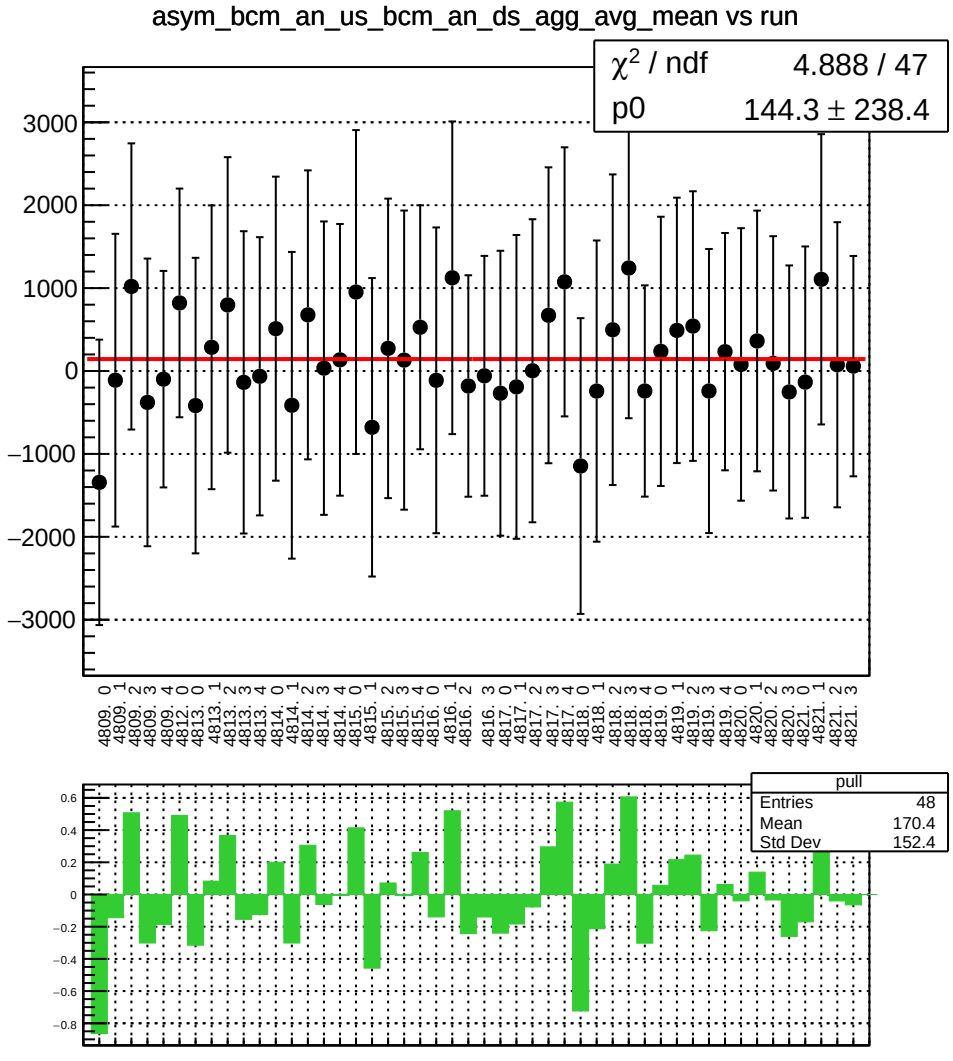
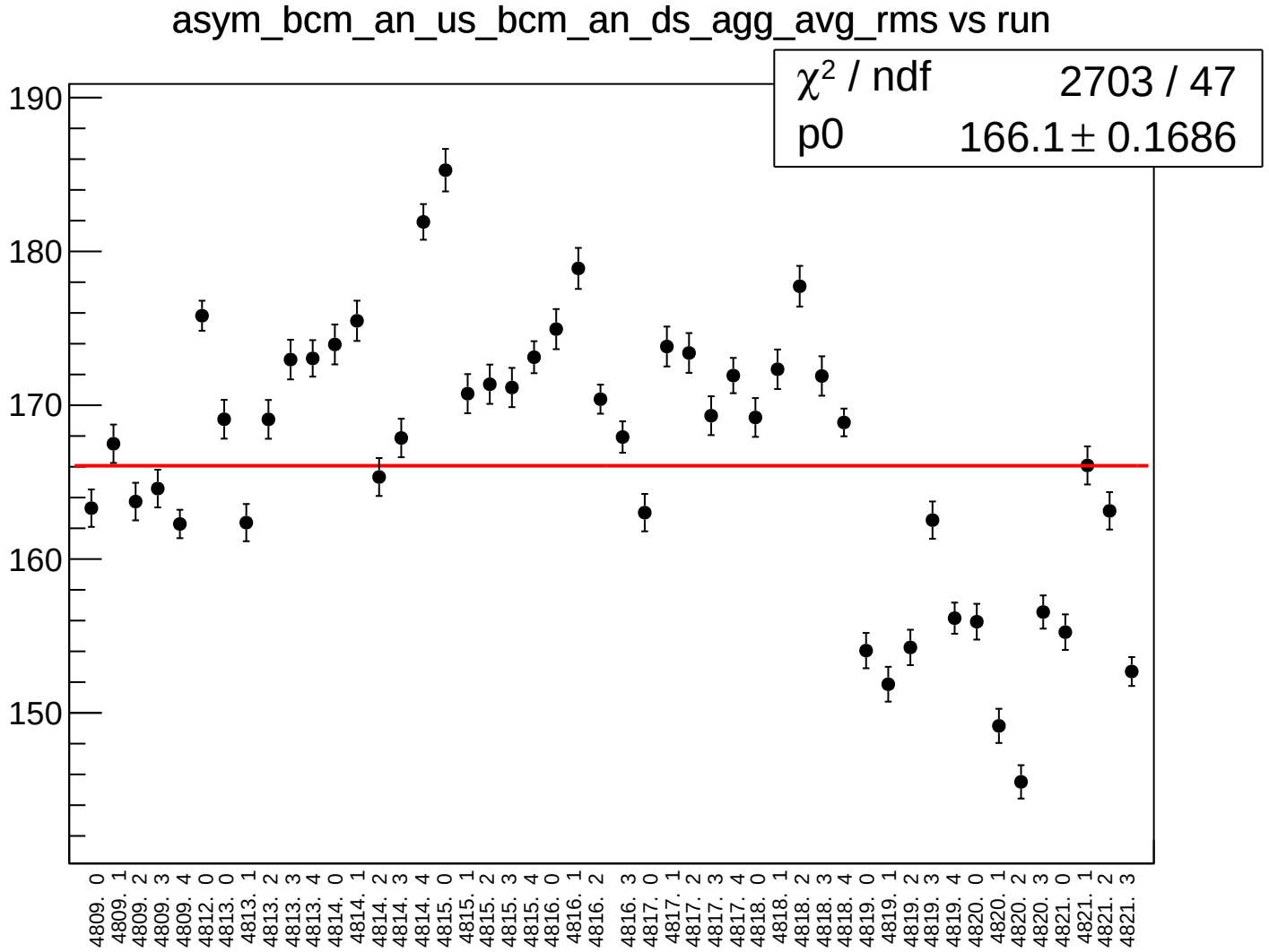
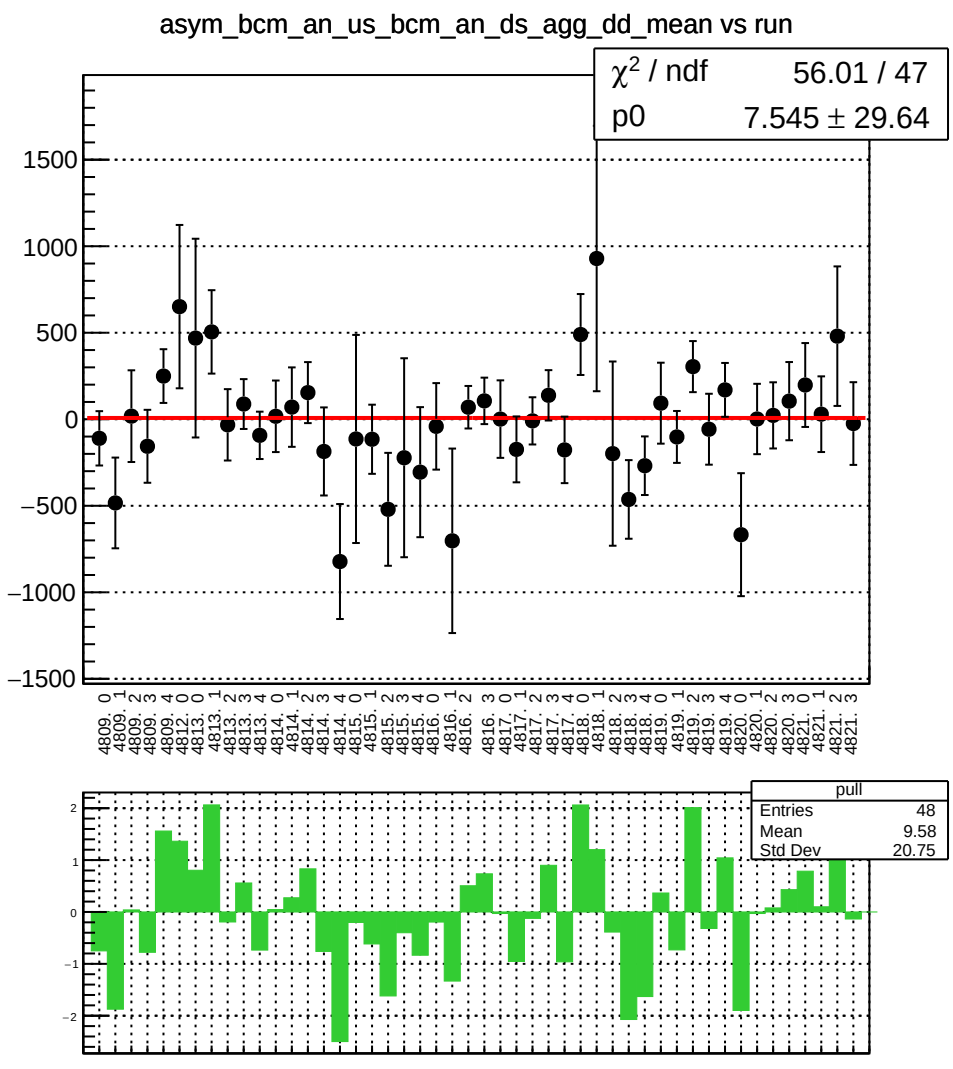
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

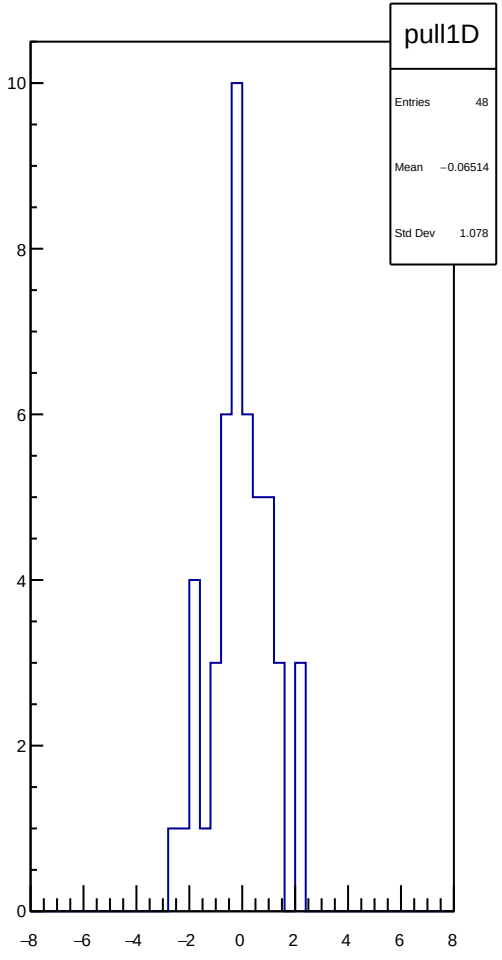

asym_atl_dd_atr_dd_dd_mean vs run
×10^3
χ² / ndf 44.67 / 47
p0 −7761 ± 6933
150
100
50
0
−50
−100
−150
−200
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 1692
Std Dev 1668
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 48
Mean 0.0021
Std Dev 0.9647
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

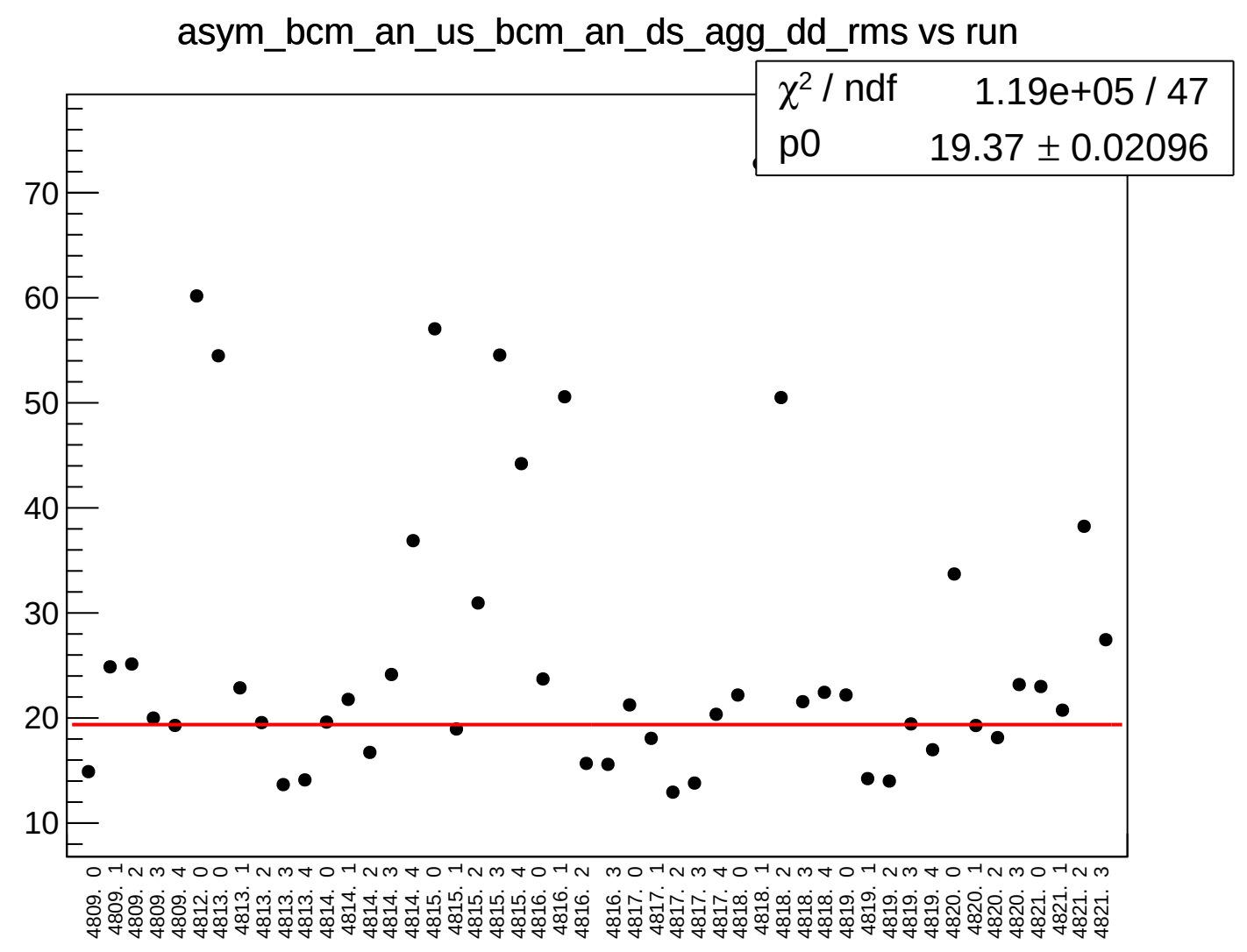

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 27.21 / 47
p0 4837 ± 4.903
4950
4900
4850
4800
4750
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

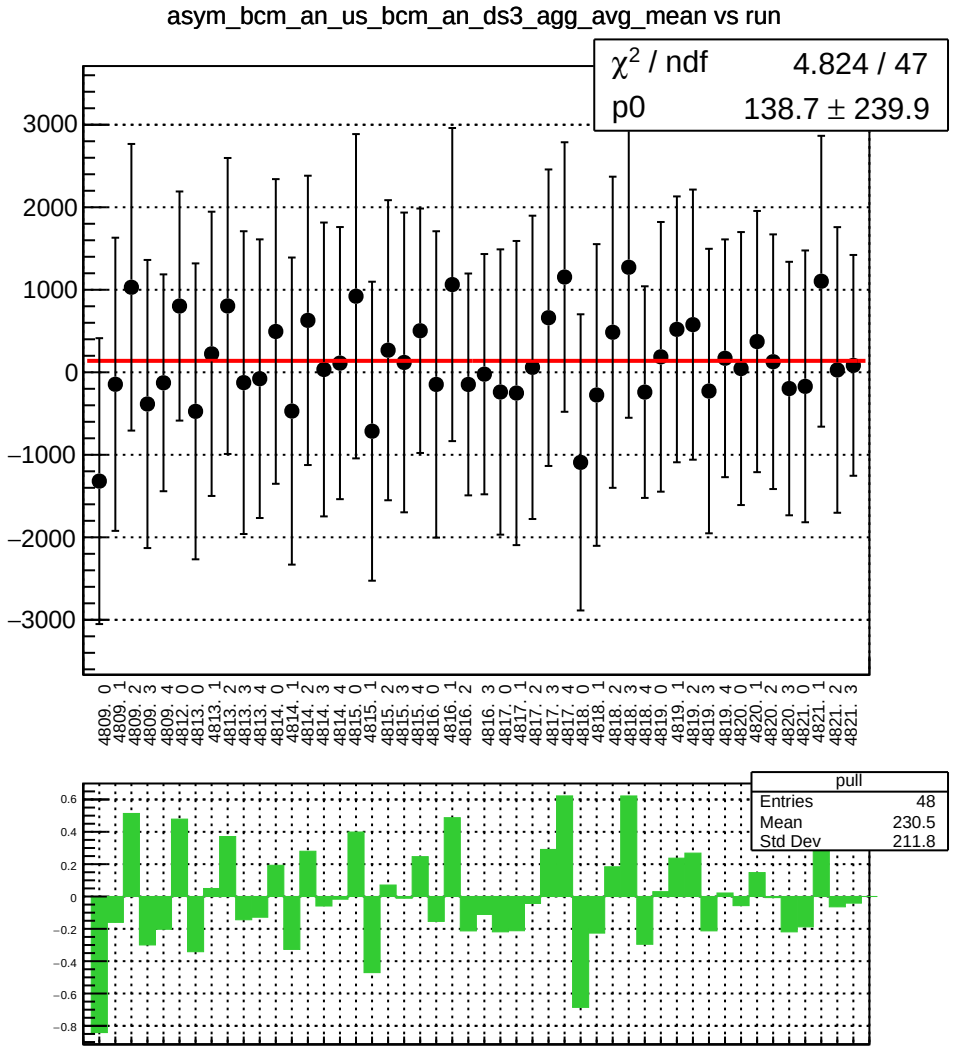

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 4.888 / 47
p0 144.3 ± 238.4
3000
2000
1000
0
−1000
−2000
−3000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 170.4
Std Dev 152.4
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 48
Mean 0.002844
Std Dev 0.3191
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

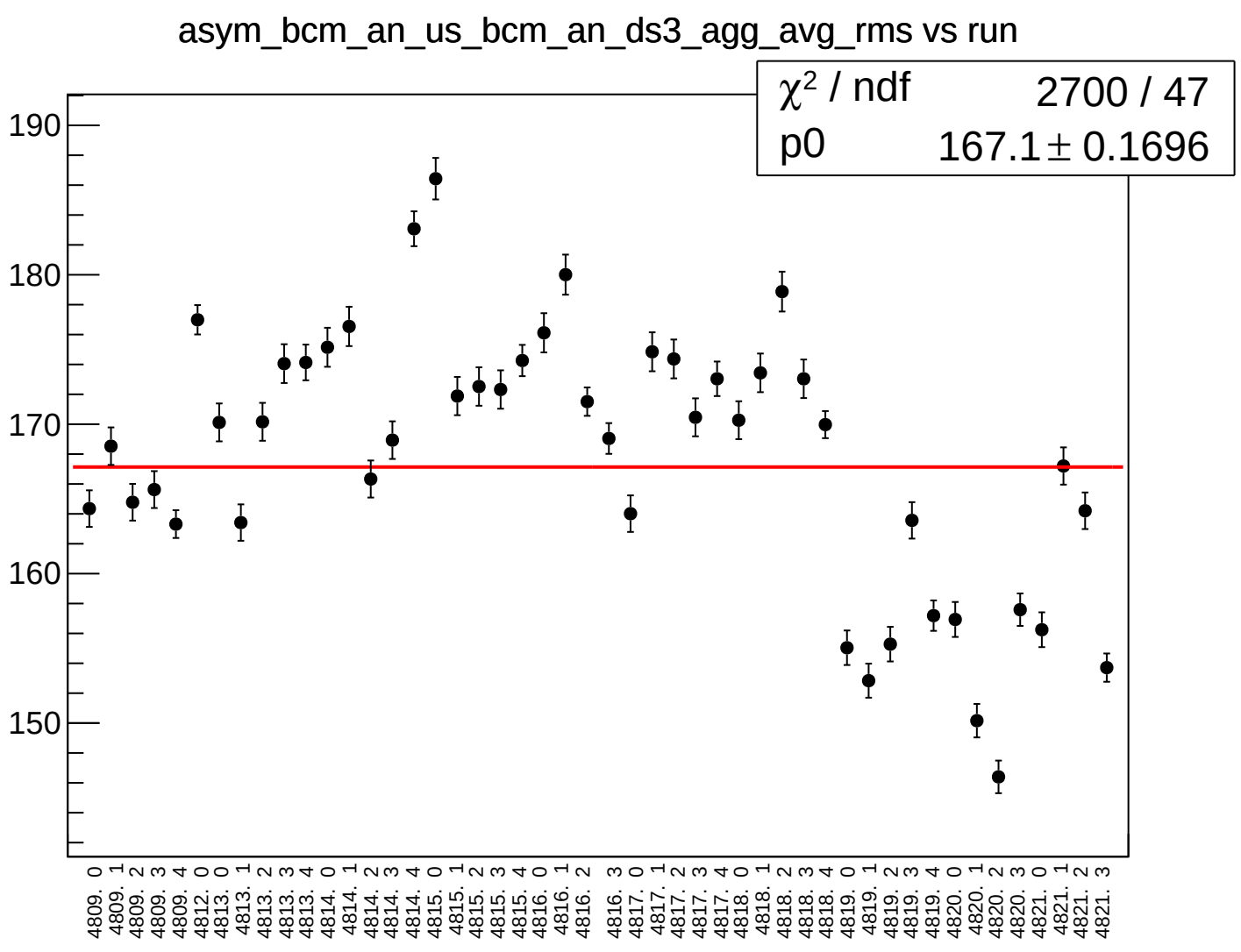

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2703 / 47
p0 166.1 ± 0.1686
190
180
170
160
150
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

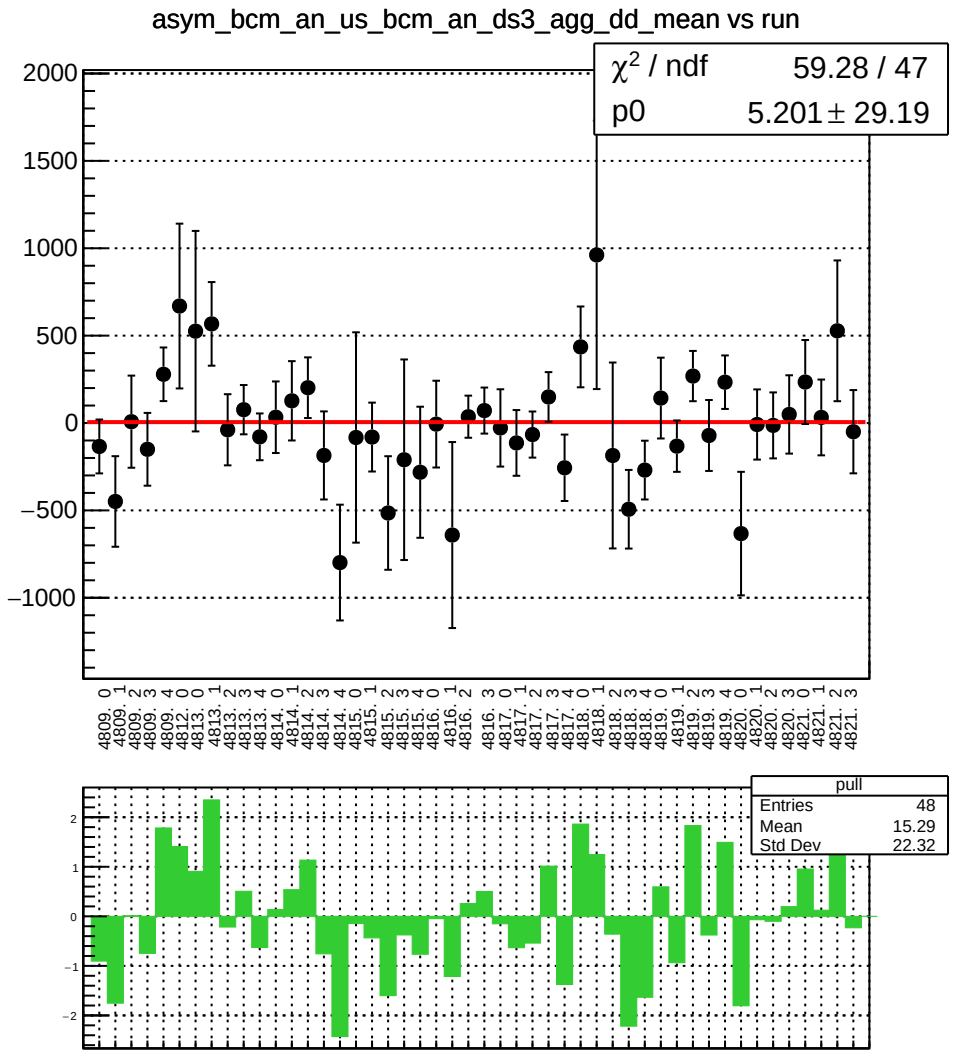

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 56.01 / 47
p0 7.545 ± 29.64
1500
1000
500
0
−500
−1000
−1500
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 9.58
Std Dev 20.75
2
1
0
−1
−2

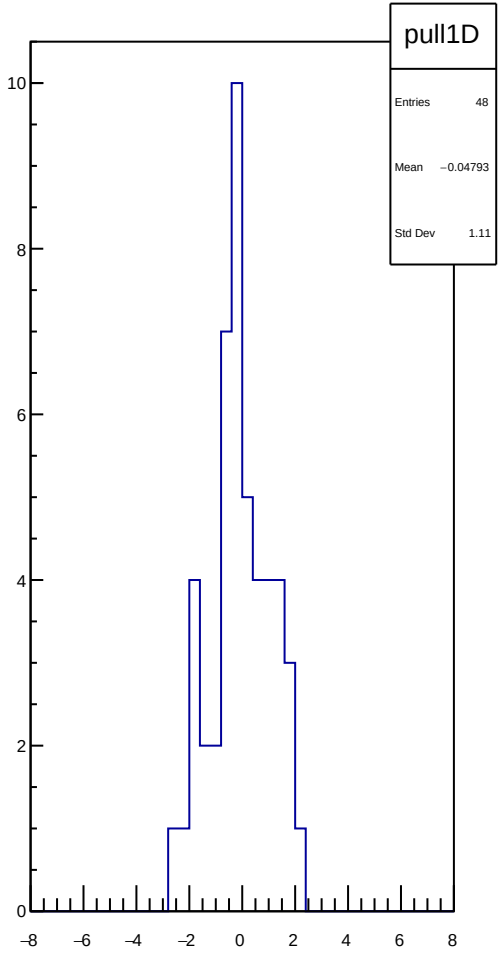

pull1D
Entries 48
Mean −0.06514
Std Dev 1.078
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

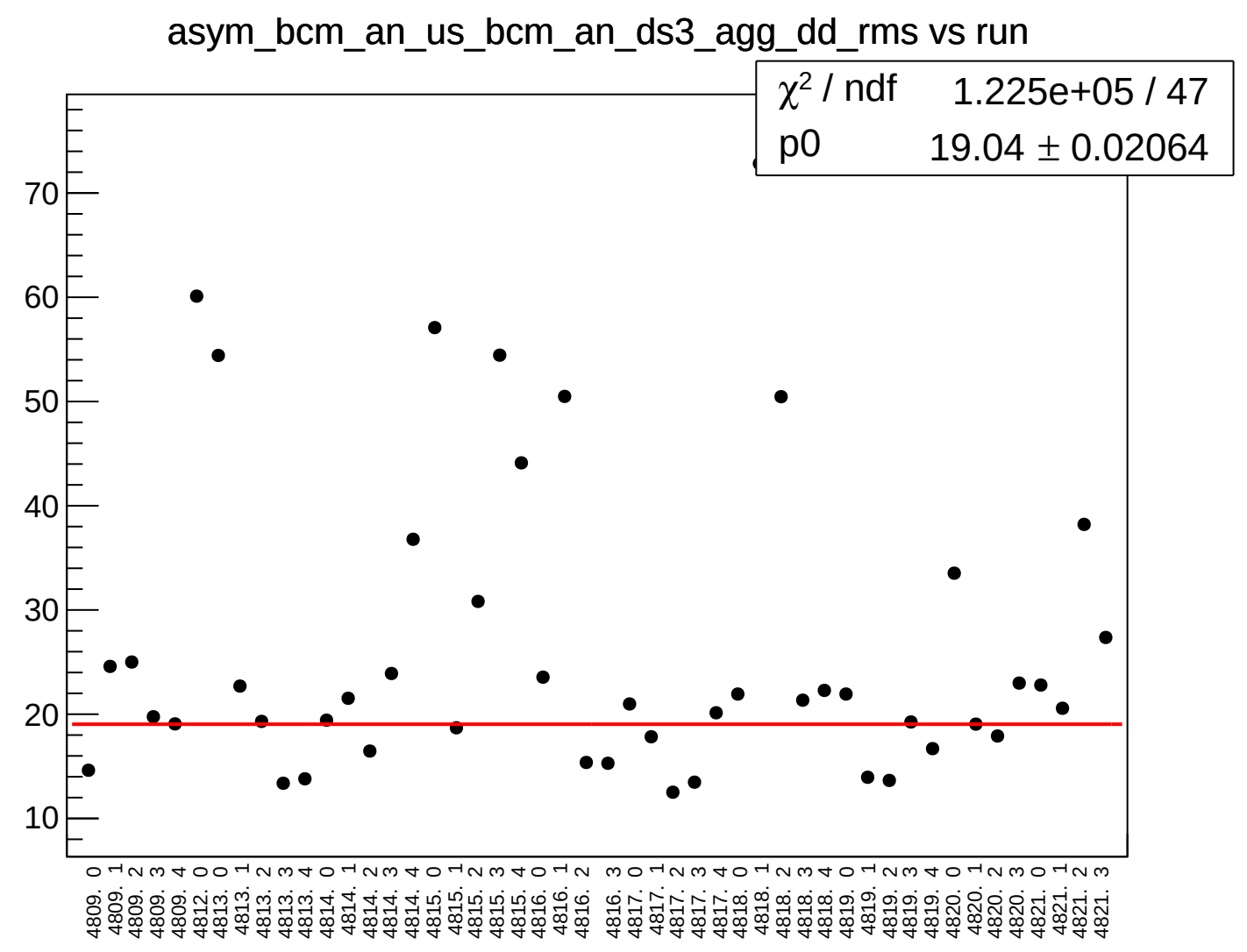

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1.19e+05 / 47
p0 19.37 ± 0.02096
70
60
50
40
30
20
10
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

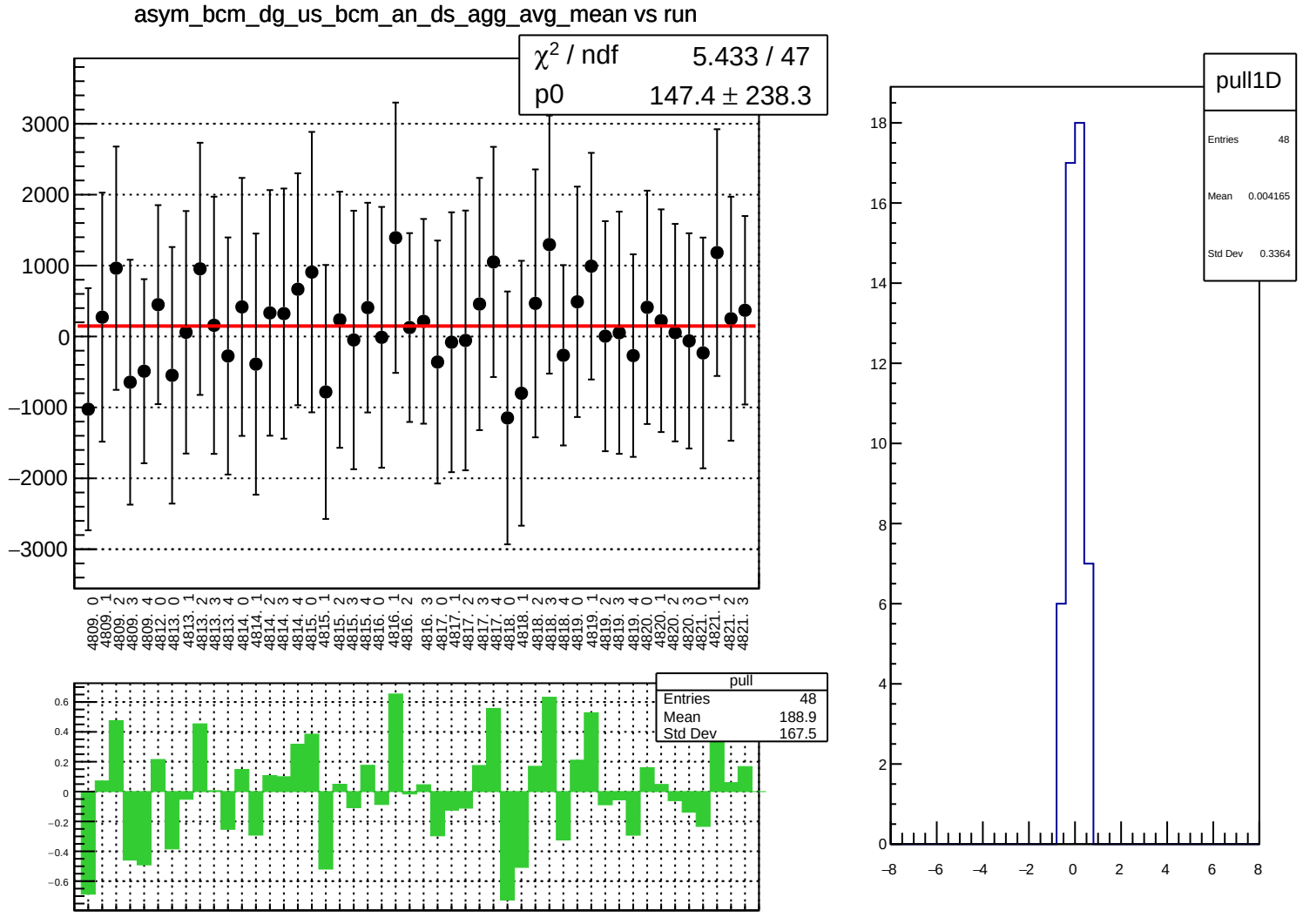

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 4.824 / 47
p0 138.7 ± 239.9
3000
2000
1000
0
−1000
−2000
−3000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 230.5
Std Dev 211.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 48
Mean 0.002359
Std Dev 0.317
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

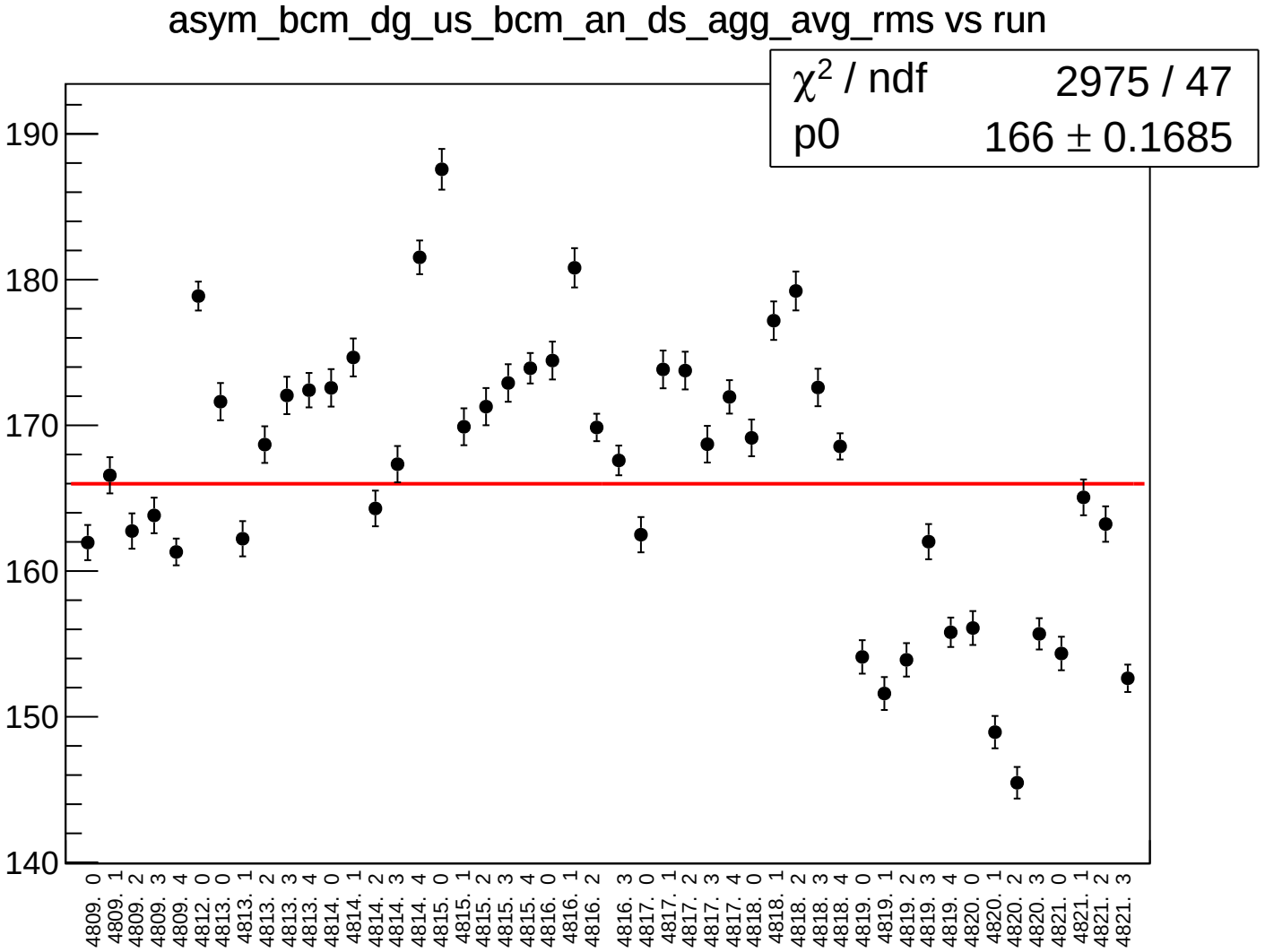

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 2700 / 47
p0 167.1 ± 0.1696
190
180
170
160
150
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3


asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 59.28 / 47
p0 5.201 ± 29.19
pull
Entries 48
Mean 15.29
Std Dev 22.32


pull1D
Entries 48
Mean −0.04793
Std Dev 1.11


asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 1.225e+05 / 47
p0 19.04 ± 0.02064
70
60
50
40
30
20
10
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3


asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 5.433 / 47
p0 147.4 ± 238.3
3000
2000
1000
0
−1000
−2000
−3000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 188.9
Std Dev 167.5
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 48
Mean 0.004165
Std Dev 0.3364
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2975 / 47
p0 166 ± 0.1685
190
180
170
160
150
140
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
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4814. 2
4814. 3
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4816. 3
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4817. 1
4817. 2
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4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
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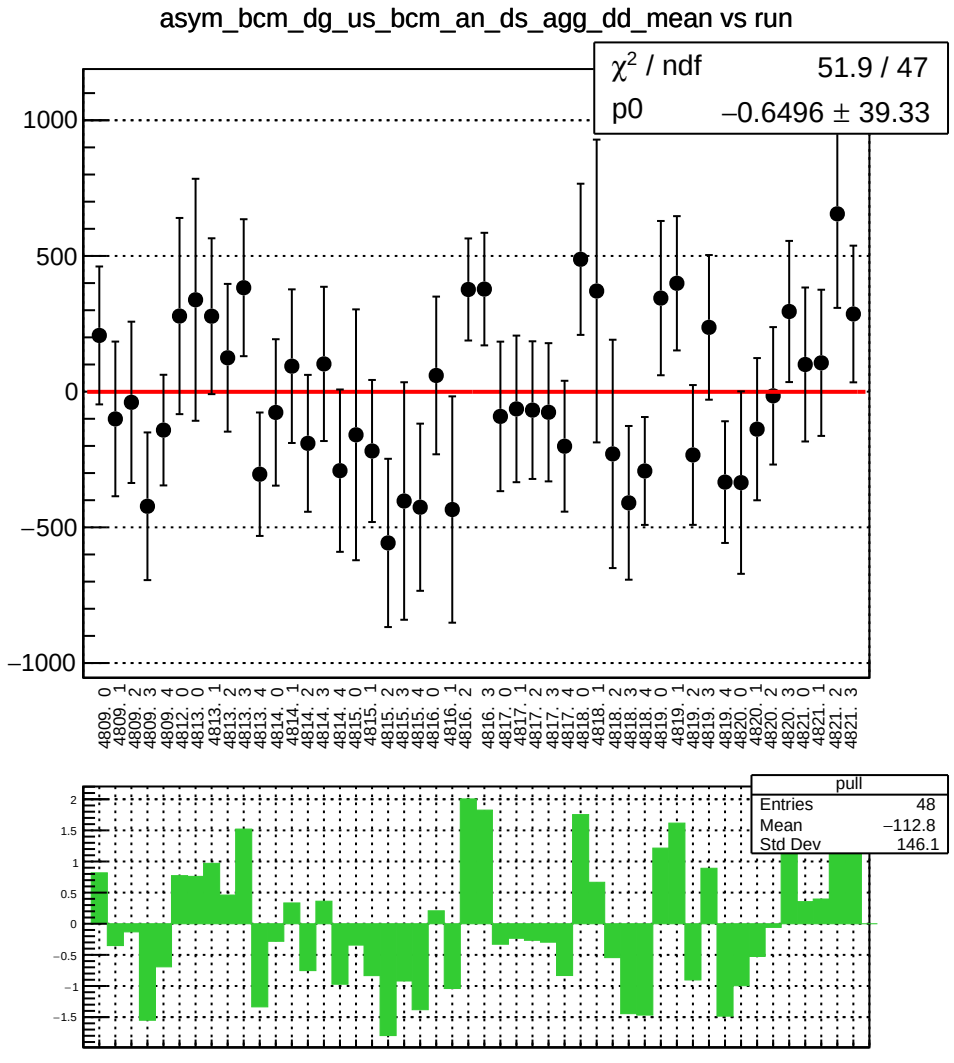
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3


asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 51.9 / 47
p0 −0.6496 ± 39.33
1000
500
0
−500
−1000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
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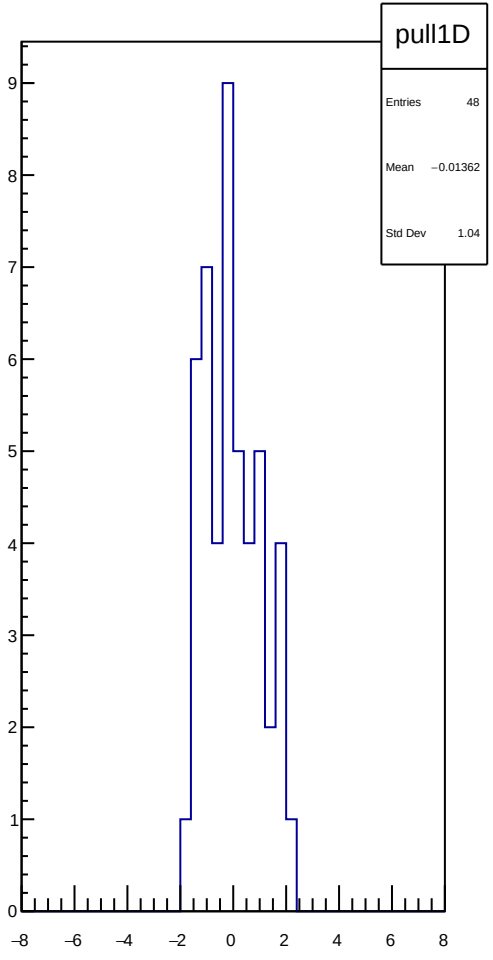
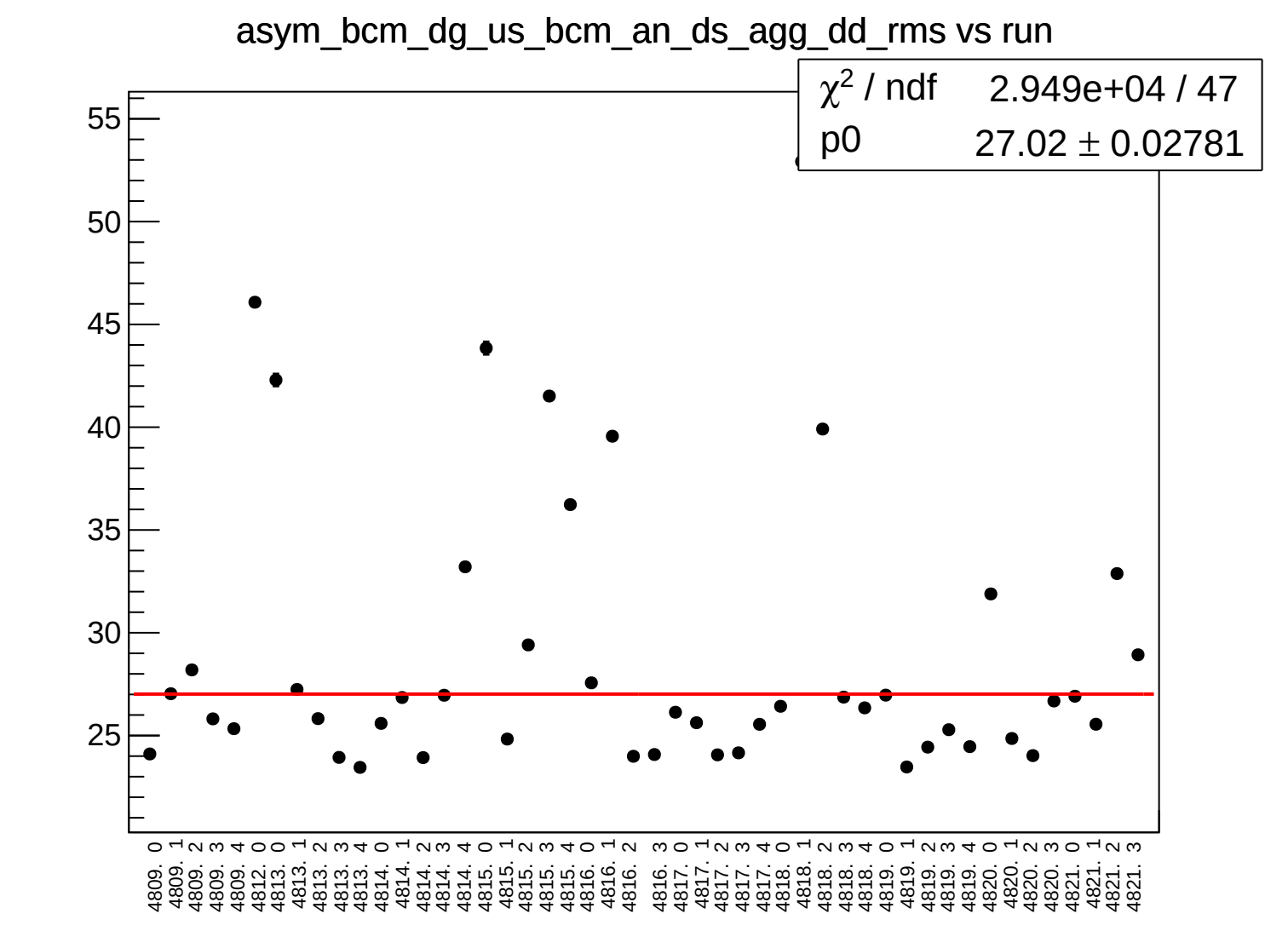
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean −112.8
Std Dev 146.1
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 48
Mean −0.01362
Std Dev 1.04
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2.949e+04 / 47
p0 27.02 ± 0.02781
55
50
45
40
35
30
25
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
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4815. 2
4815. 3
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4816. 0
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4816. 2
4816. 3
4817. 0
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4817. 2
4817. 3
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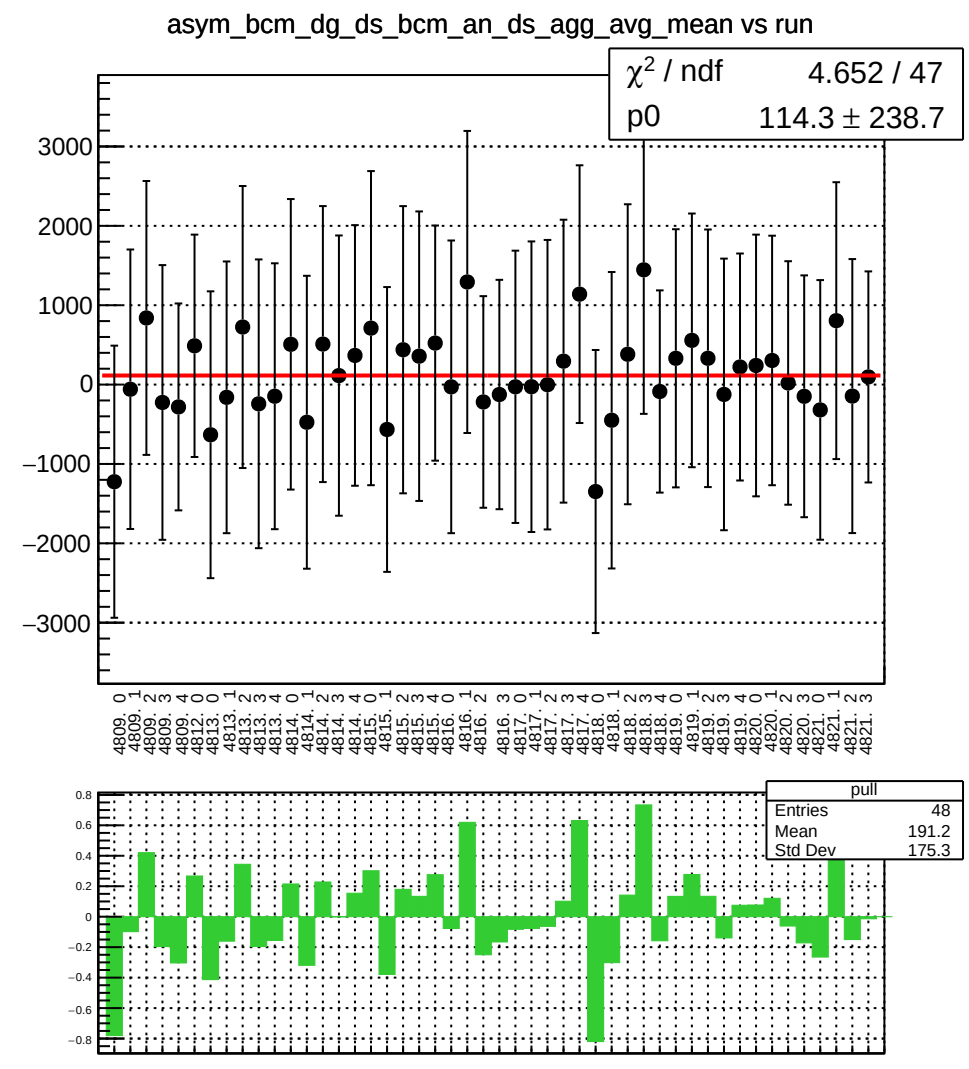
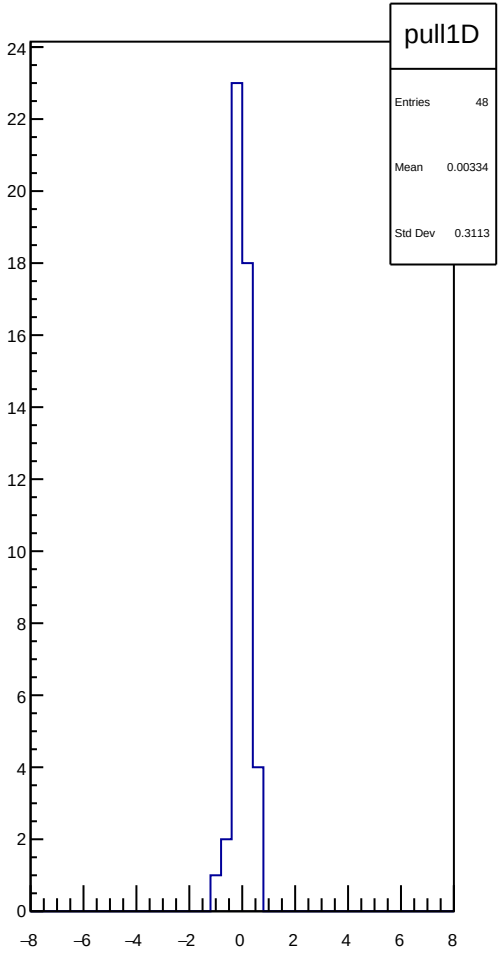
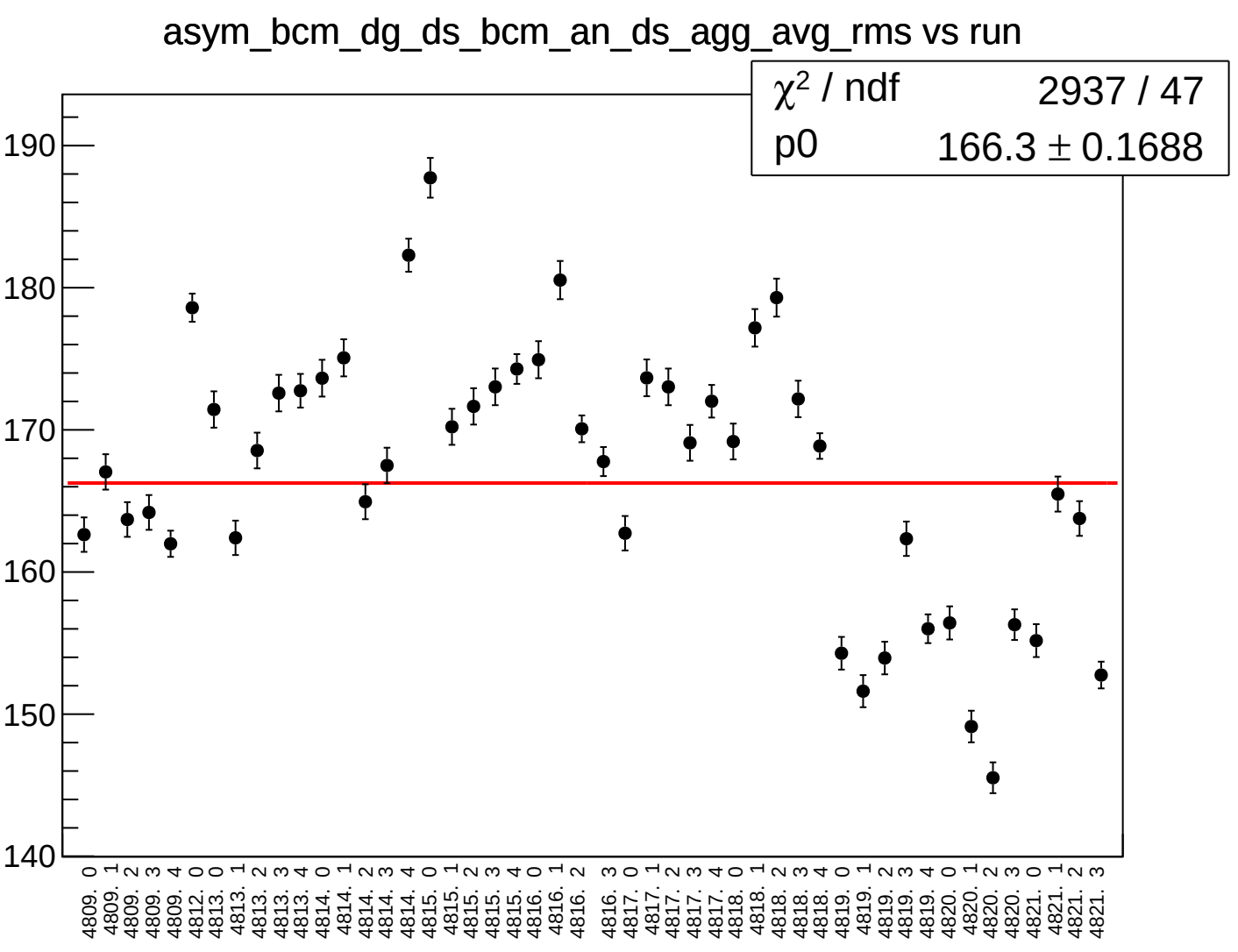
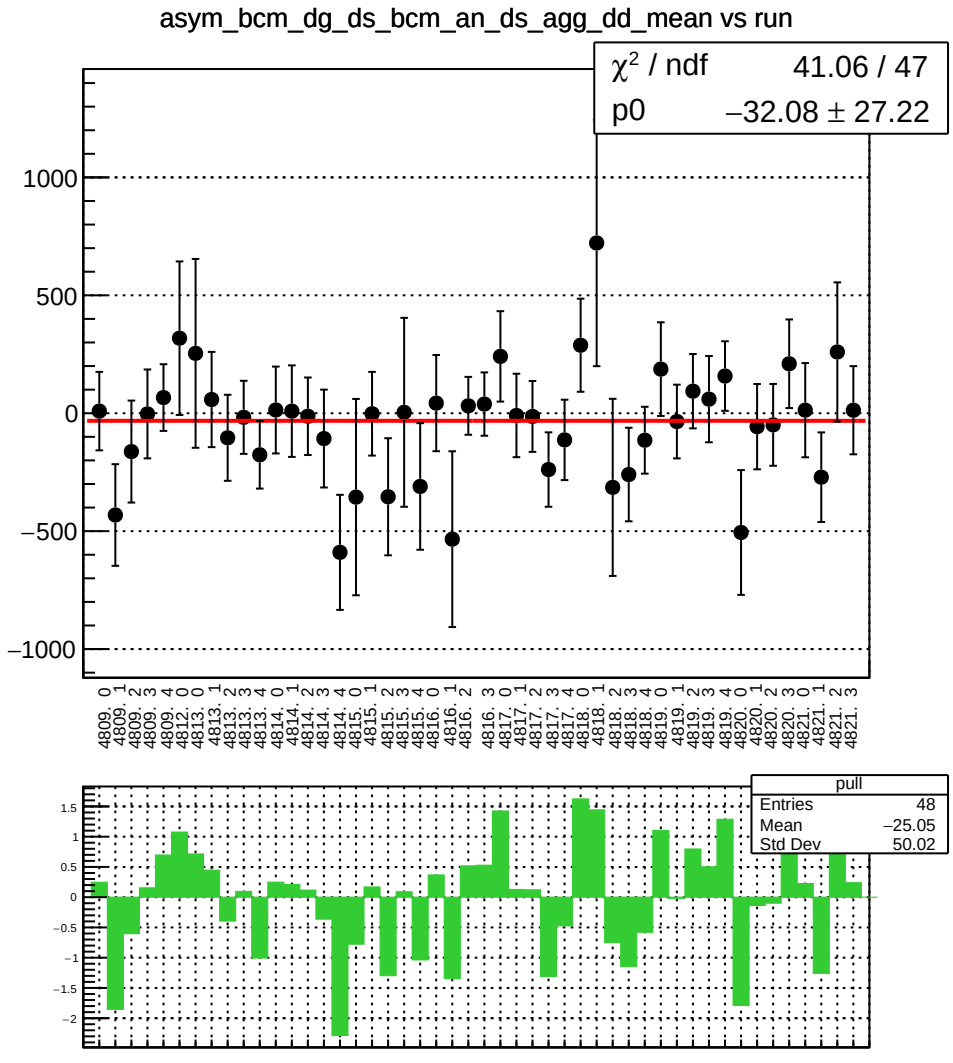
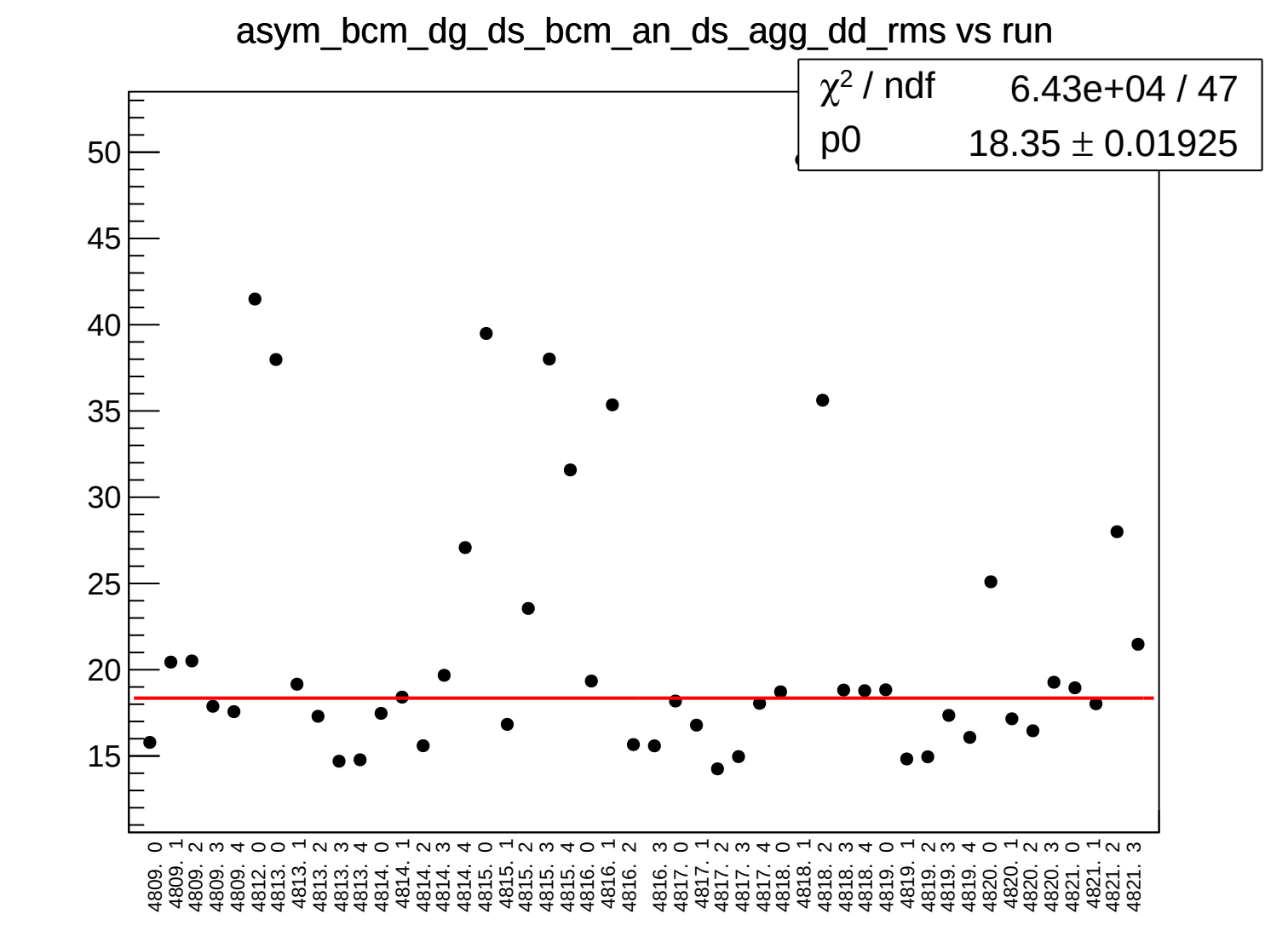
4821. 2
4821. 3

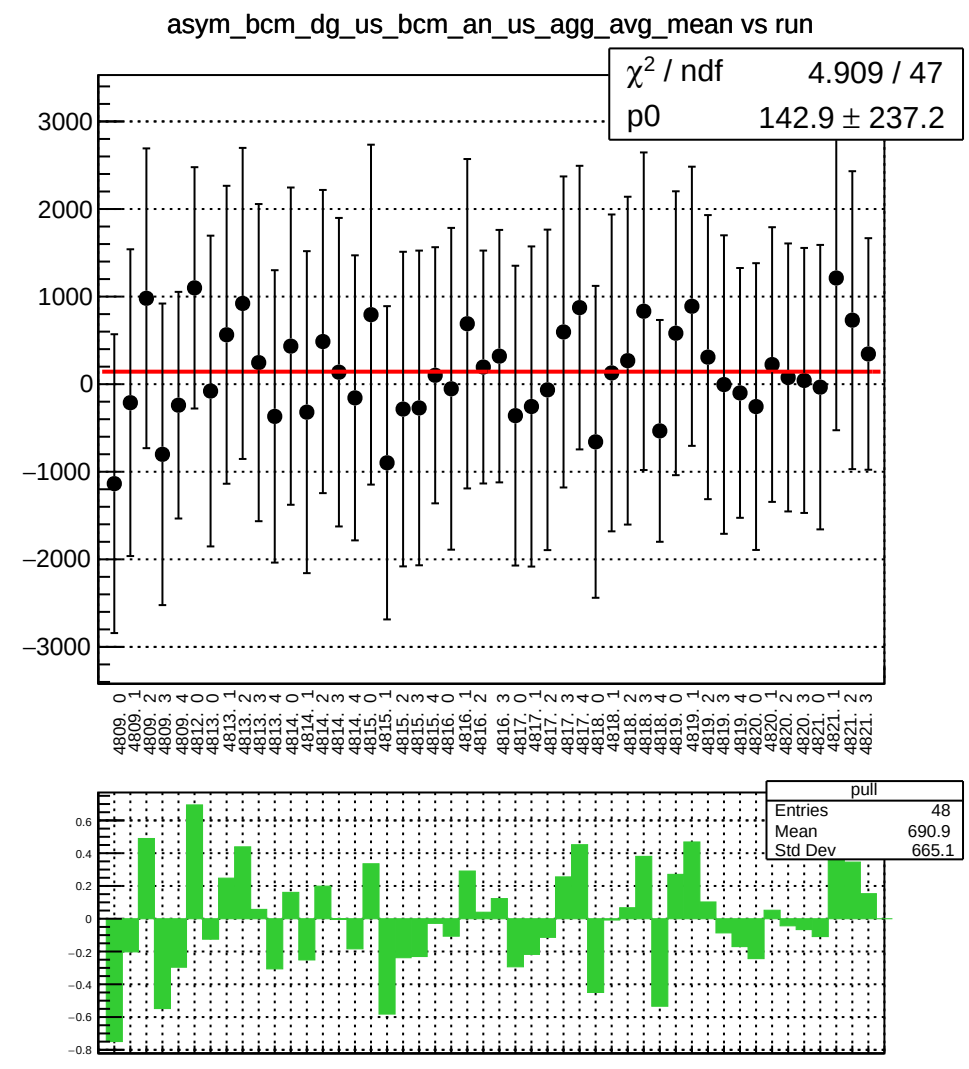

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 4.652 / 47
p0 114.3 ± 238.7
pull
Entries 48
Mean 191.2
Std Dev 175.3

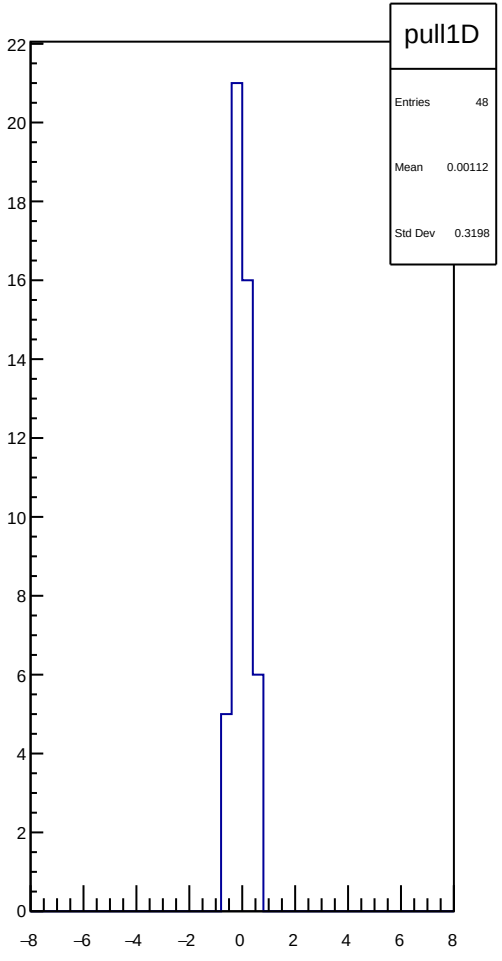

pull1D
Entries 48
Mean 0.00334
Std Dev 0.3113

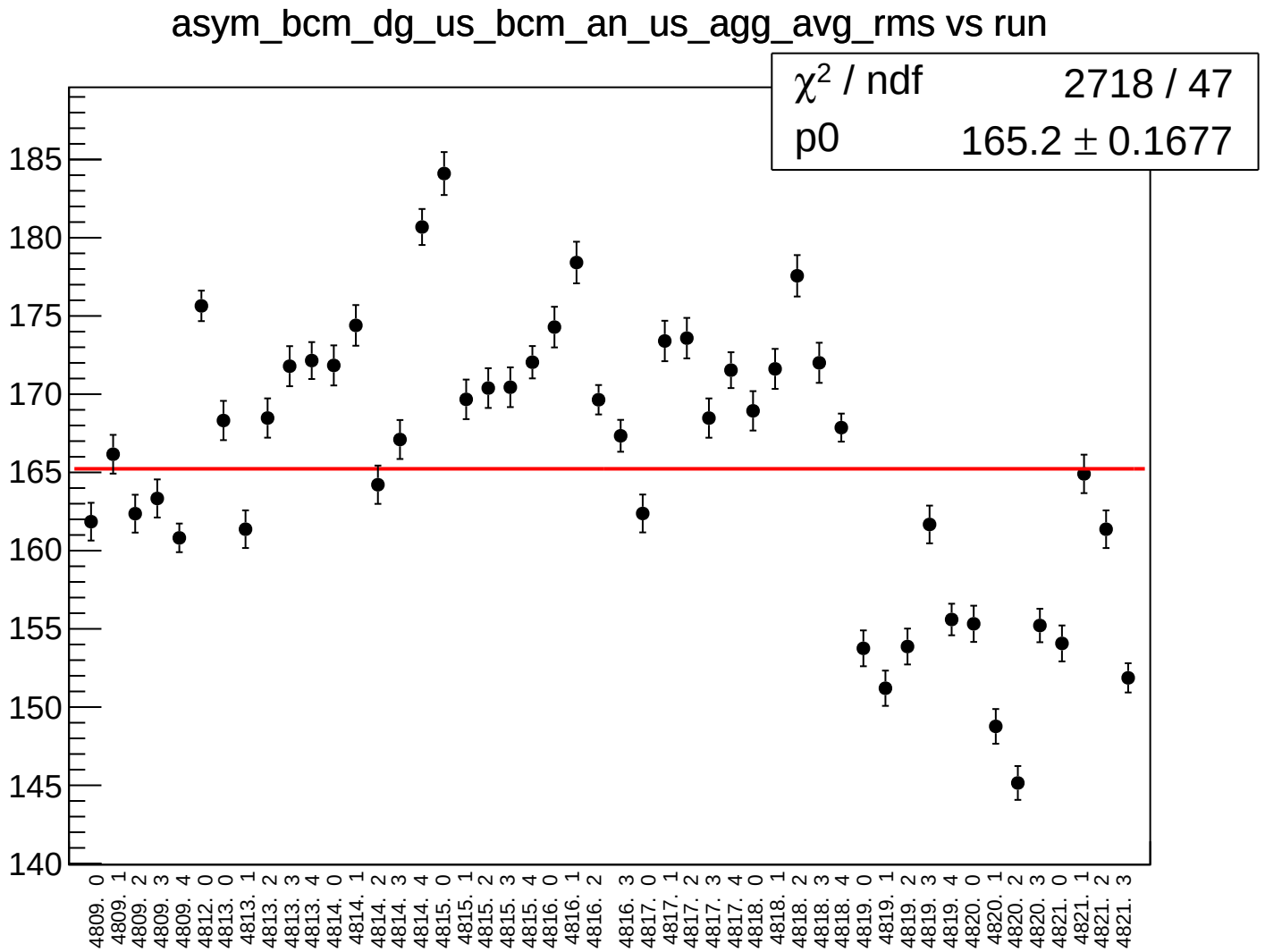

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2937 / 47
p0 166.3 ± 0.1688
190
180
170
160
150
140
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

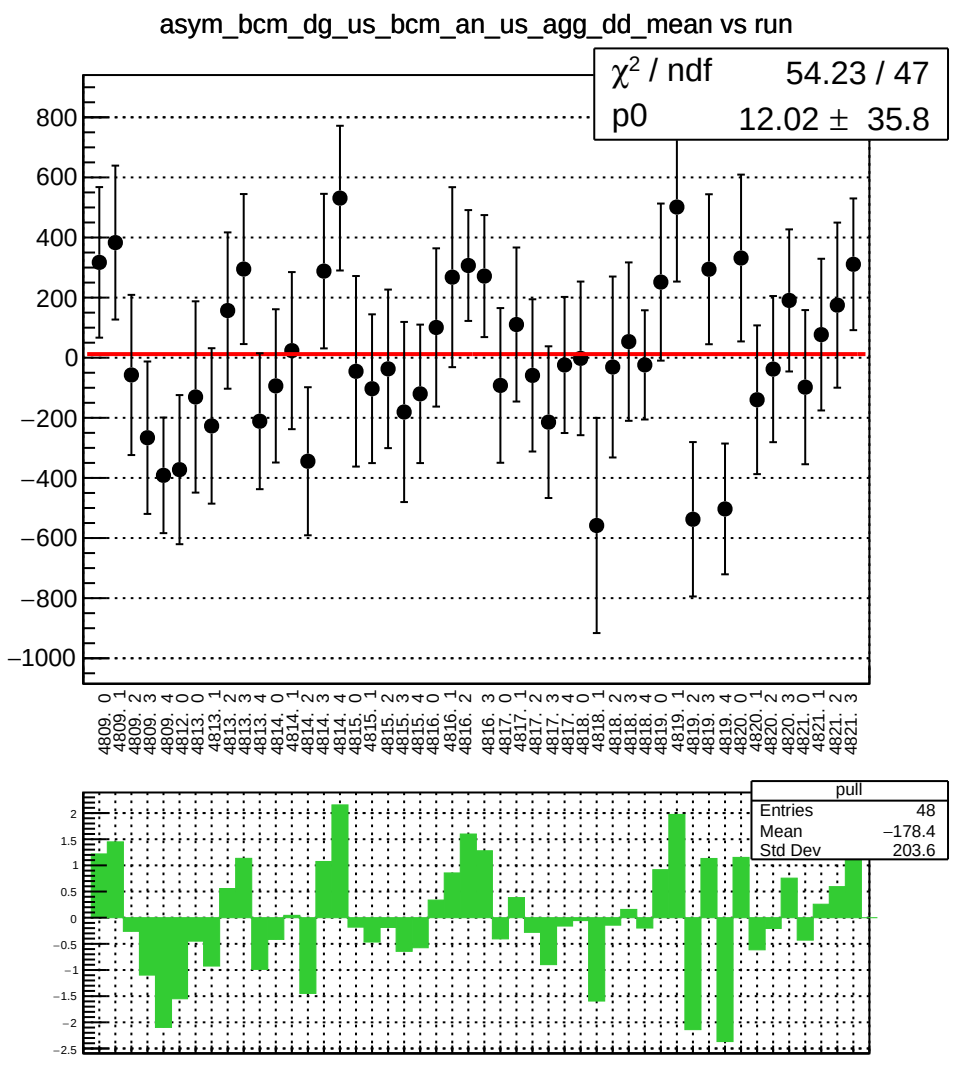

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 41.06 / 47
p0 −32.08 ± 27.22
1000
500
0
−500
−1000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean −25.05
Std Dev 50.02
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 48
Mean −0.03507
Std Dev 0.9243
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

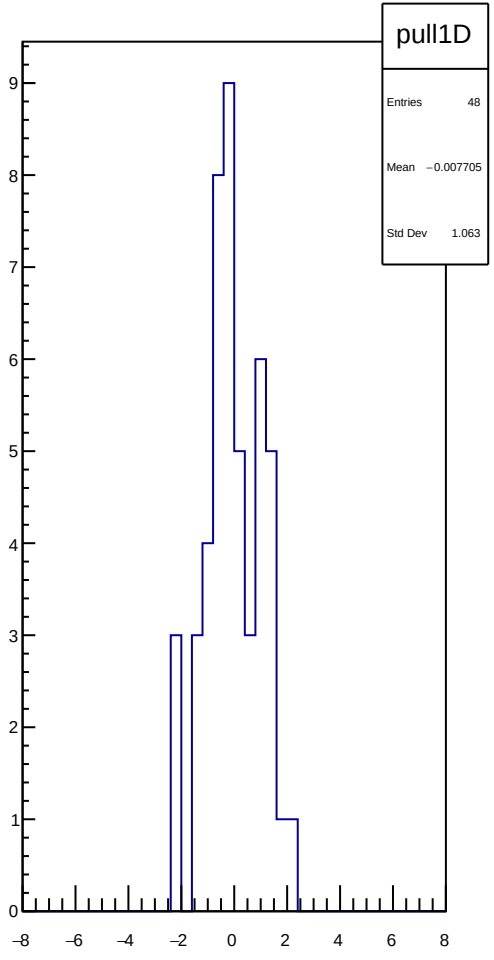

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 6.43e+04 / 47
p0 18.35 ± 0.01925
50
45
40
35
30
25
20
15
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

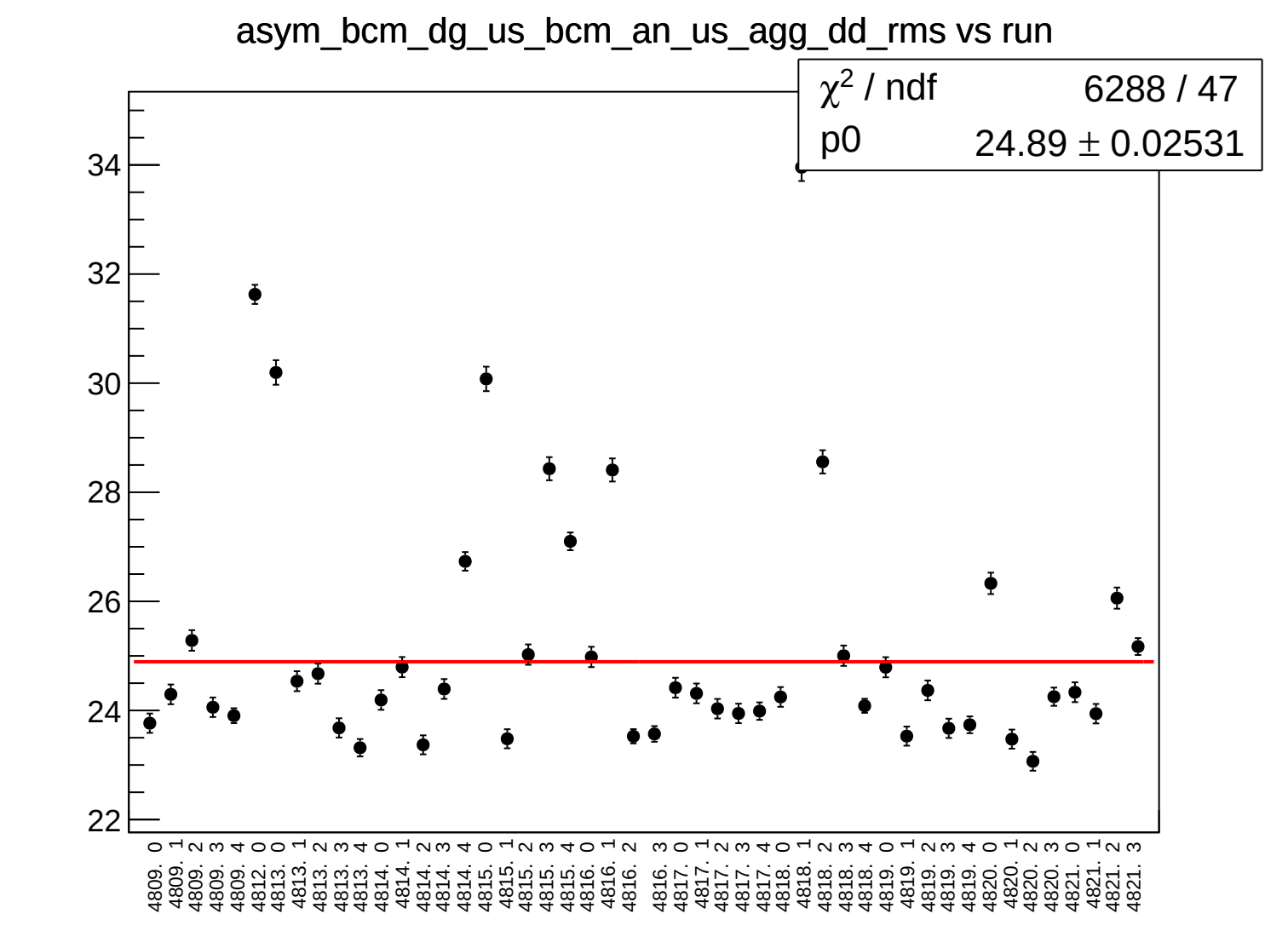

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 4.909 / 47
p0 142.9 ± 237.2
pull
Entries 48
Mean 690.9
Std Dev 665.1

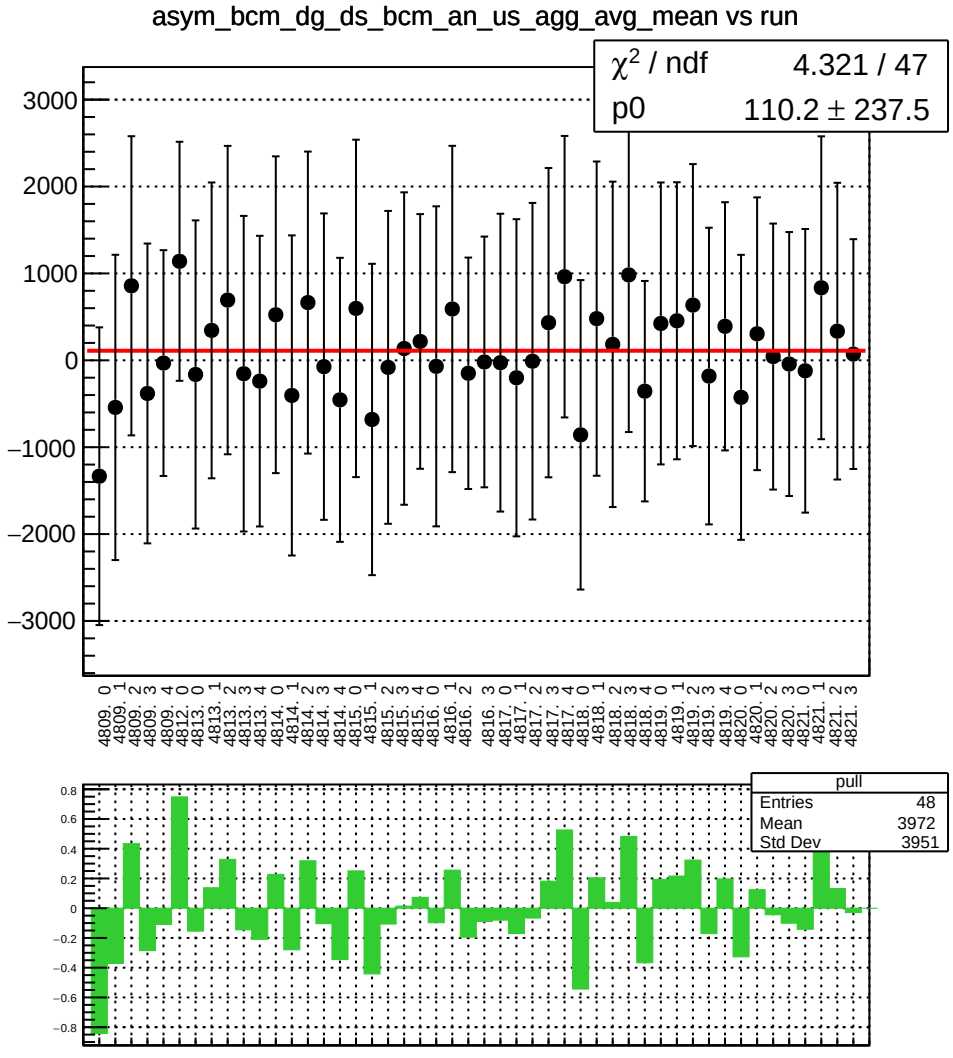

pull1D
Entries 48
Mean 0.00112
Std Dev 0.3198

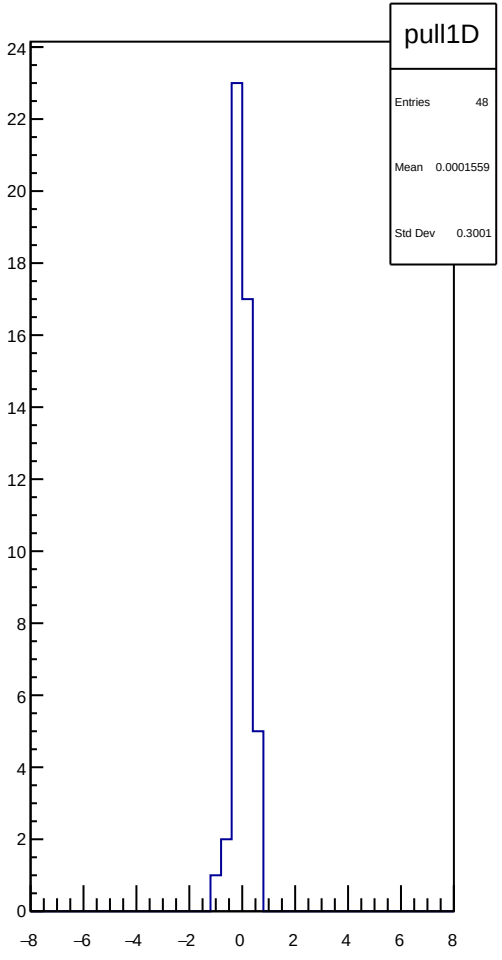

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 2718 / 47
p0 165.2 ± 0.1677
185
180
175
170
165
160
155
150
145
140
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

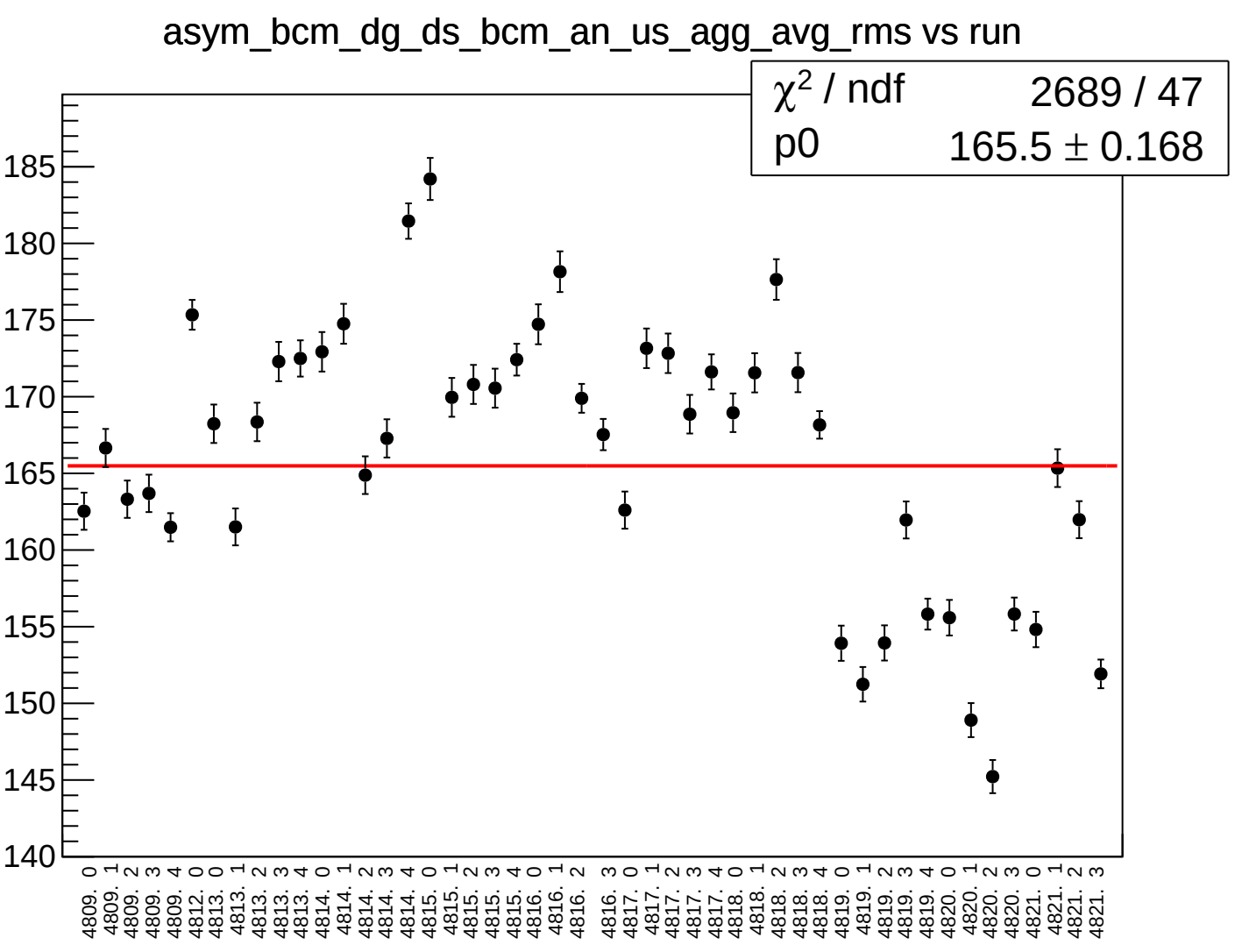

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 54.23 / 47
p0 12.02 ± 35.8
pull
Entries 48
Mean −178.4
Std Dev 203.6

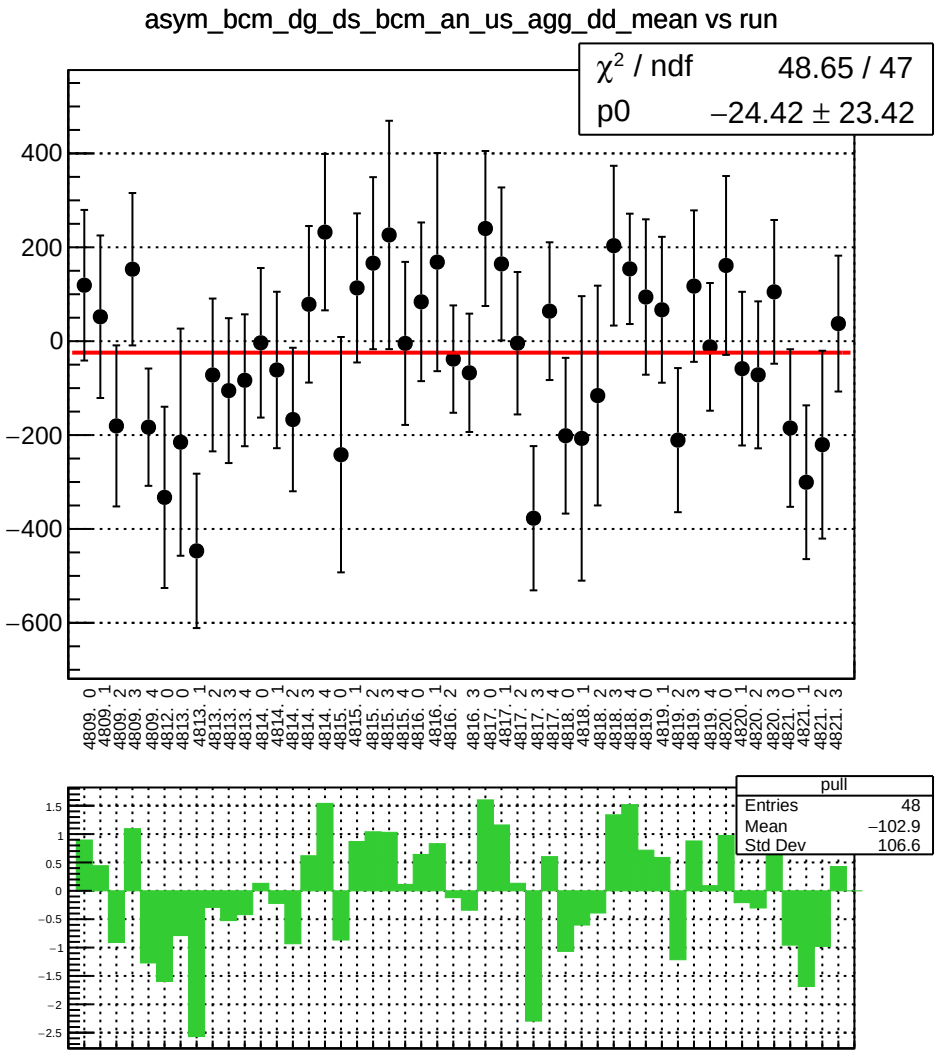

pull1D
Entries 48
Mean −0.007705
Std Dev 1.063

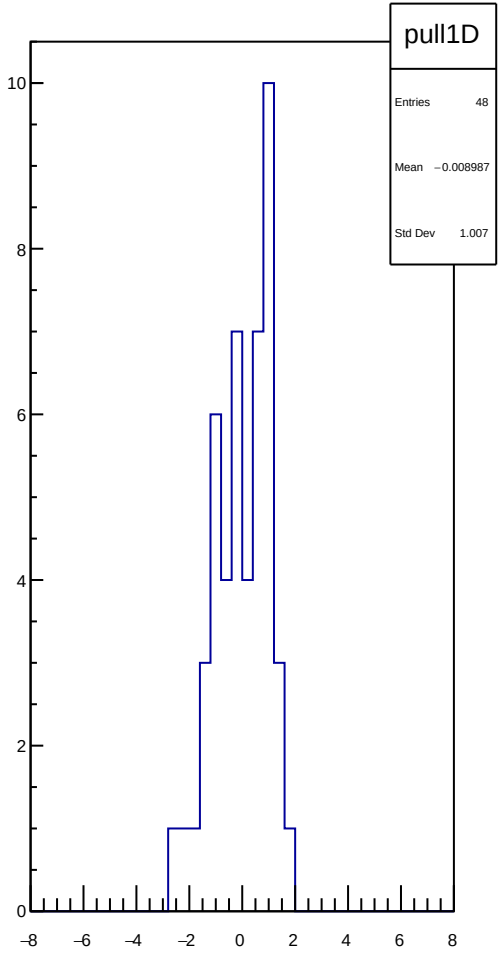

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 6288 / 47
p0 24.89 ± 0.02531
34
32
30
28
26
24
22
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

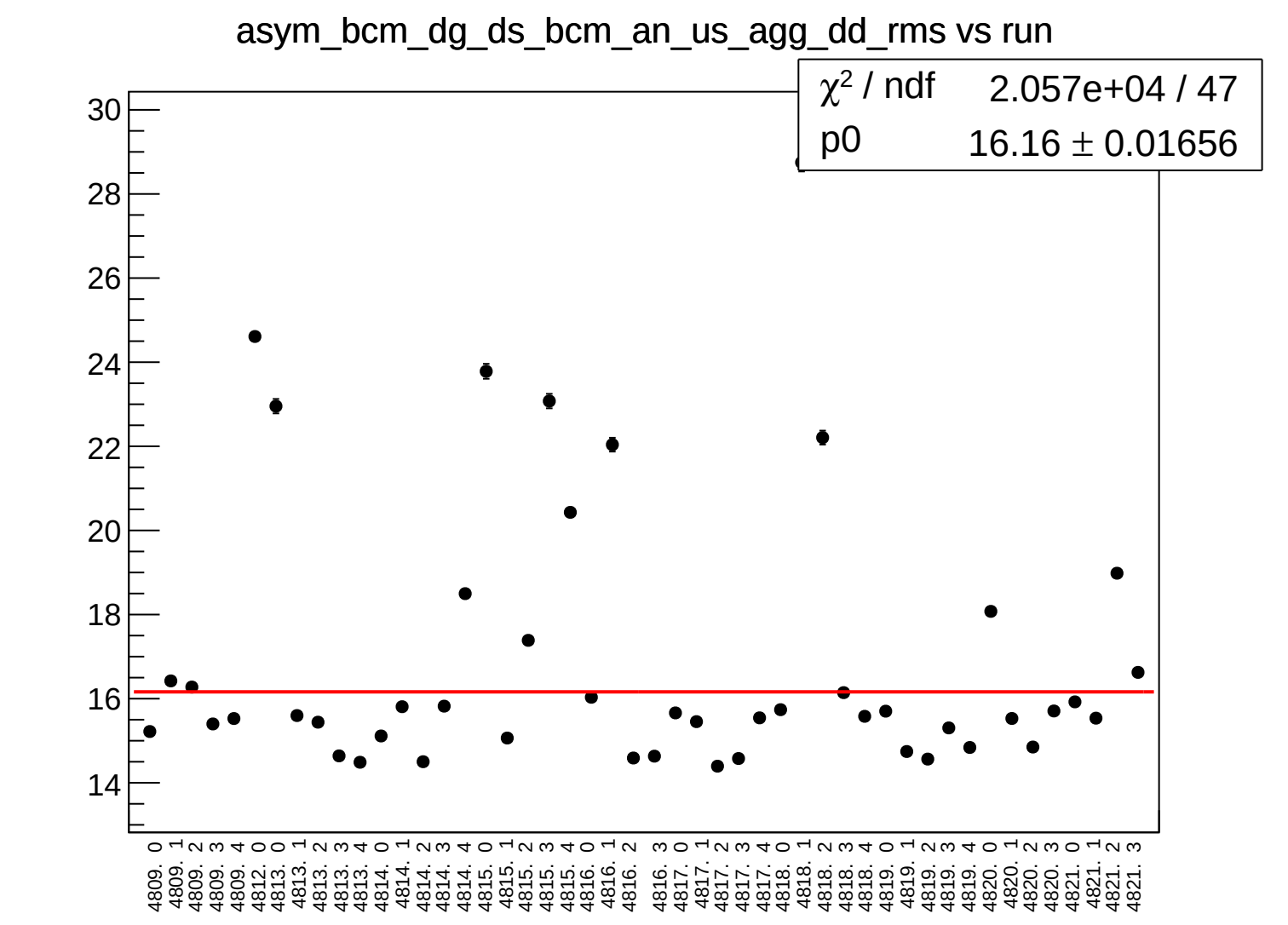

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 4.321 / 47
p0 110.2 ± 237.5
3000
2000
1000
0
−1000
−2000
−3000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 3972
Std Dev 3951
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

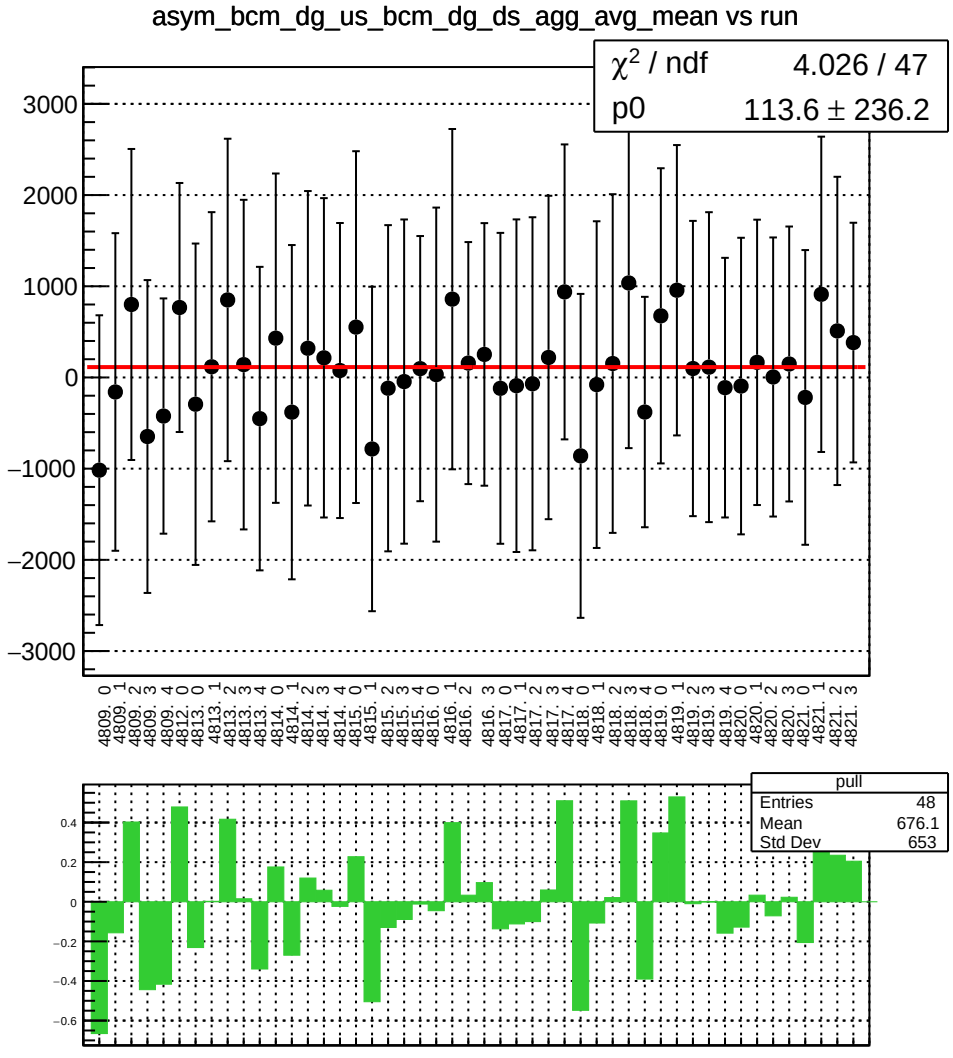

pull1D
Entries 48
Mean 0.0001559
Std Dev 0.3001
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

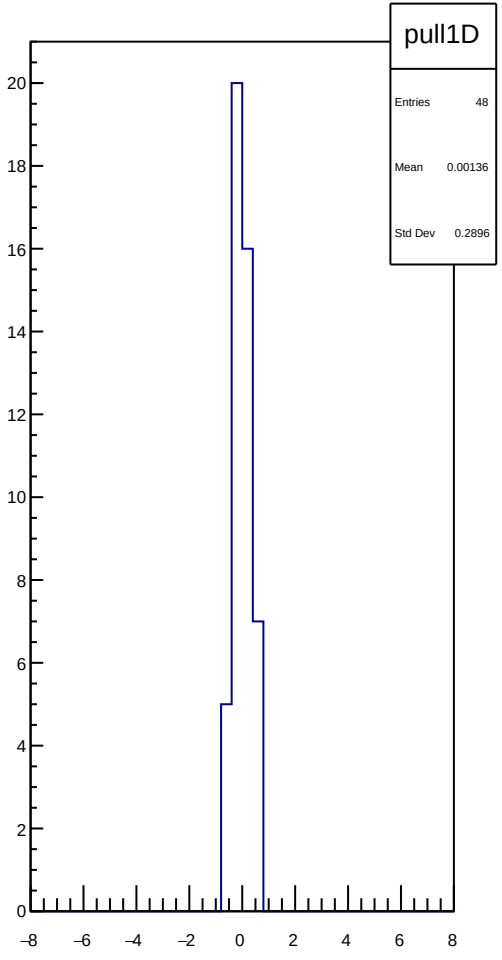

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 2689 / 47
p0 165.5 ± 0.168
185
180
175
170
165
160
155
150
145
140
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

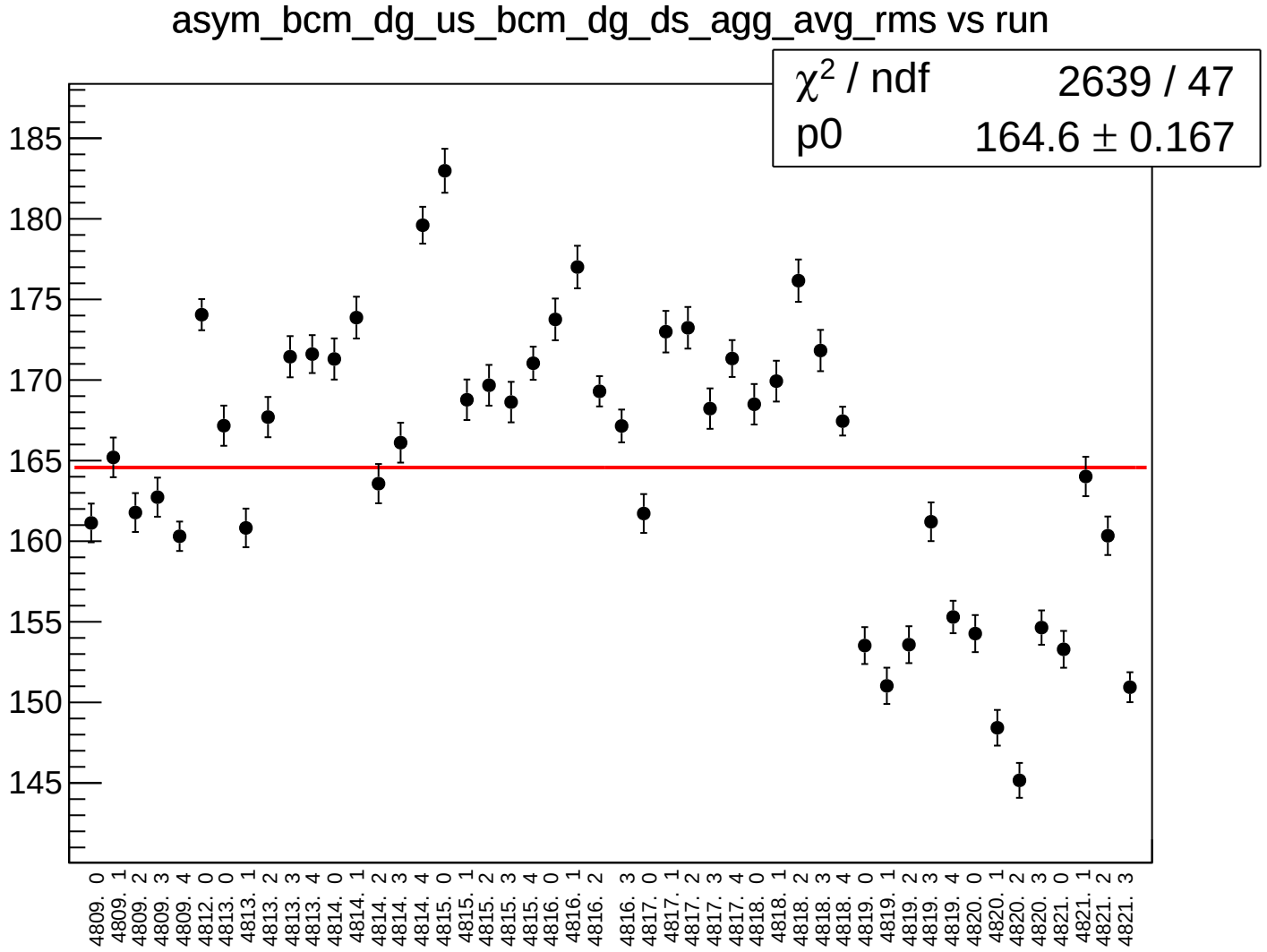

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 48.65 / 47
p0 −24.42 ± 23.42
400
200
0
−200
−400
−600
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean −102.9
Std Dev 106.6
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 48
Mean −0.008987
Std Dev 1.007
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 2.057e+04 / 47
p0 16.16 ± 0.01656
30
28
26
24
22
20
18
16
14
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3


asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 4.026 / 47
p0 113.6 ± 236.2
pull
Entries 48
Mean 676.1
Std Dev 653


pull1D
Entries 48
Mean 0.00136
Std Dev 0.2896


asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 2639 / 47
p0 164.6 ± 0.167
185
180
175
170
165
160
155
150
145
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
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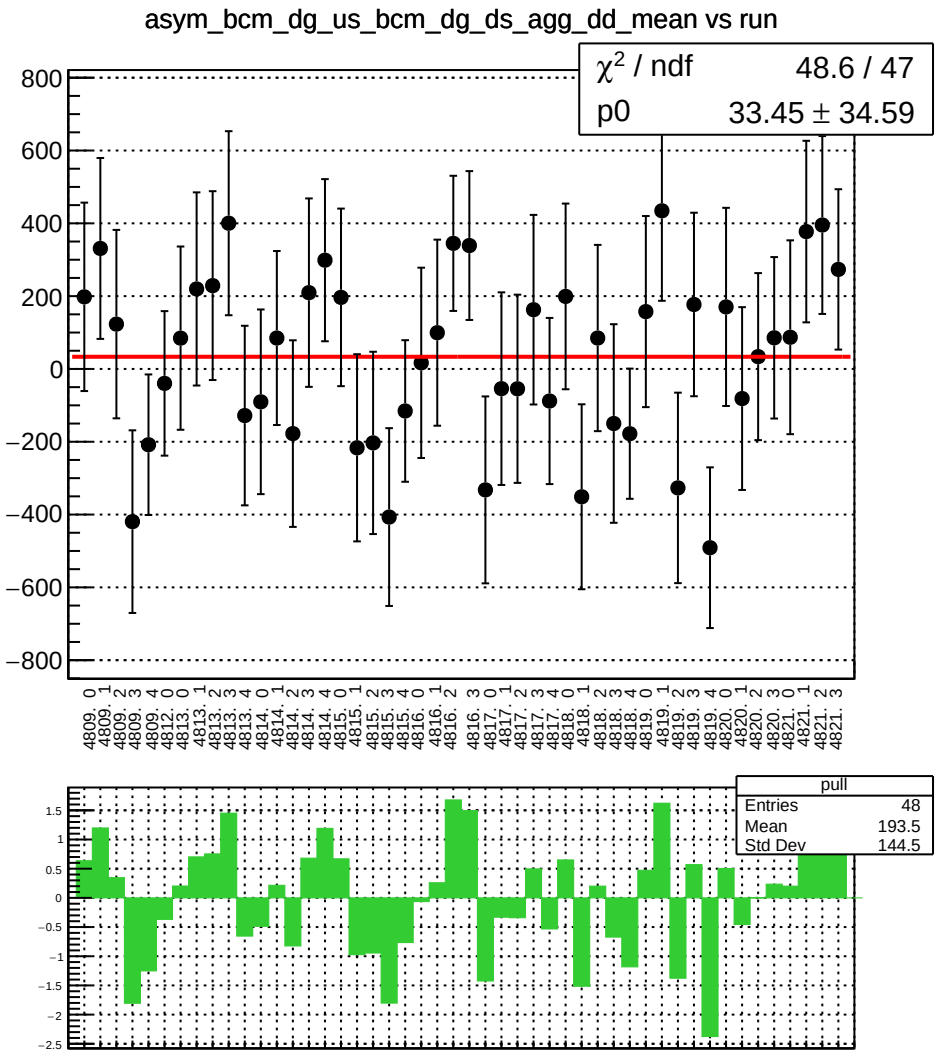
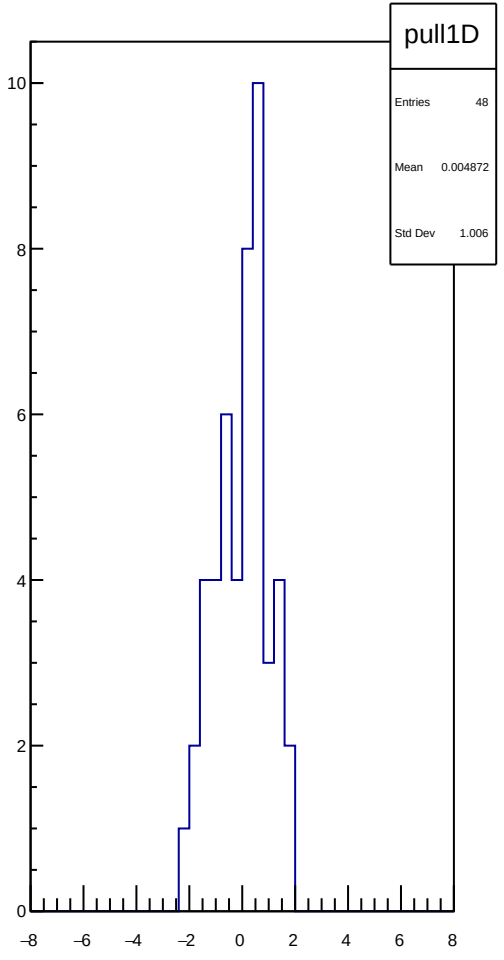
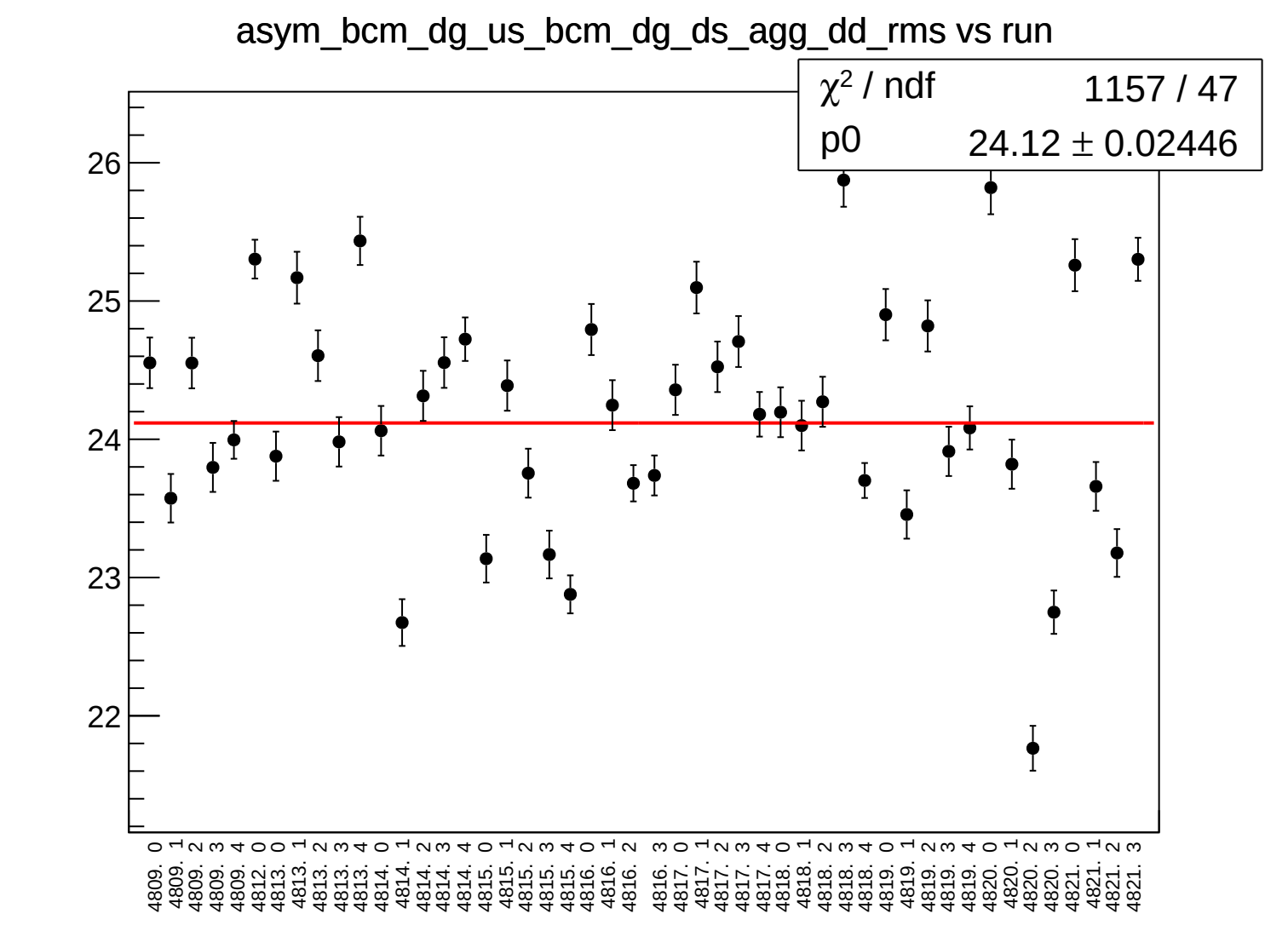
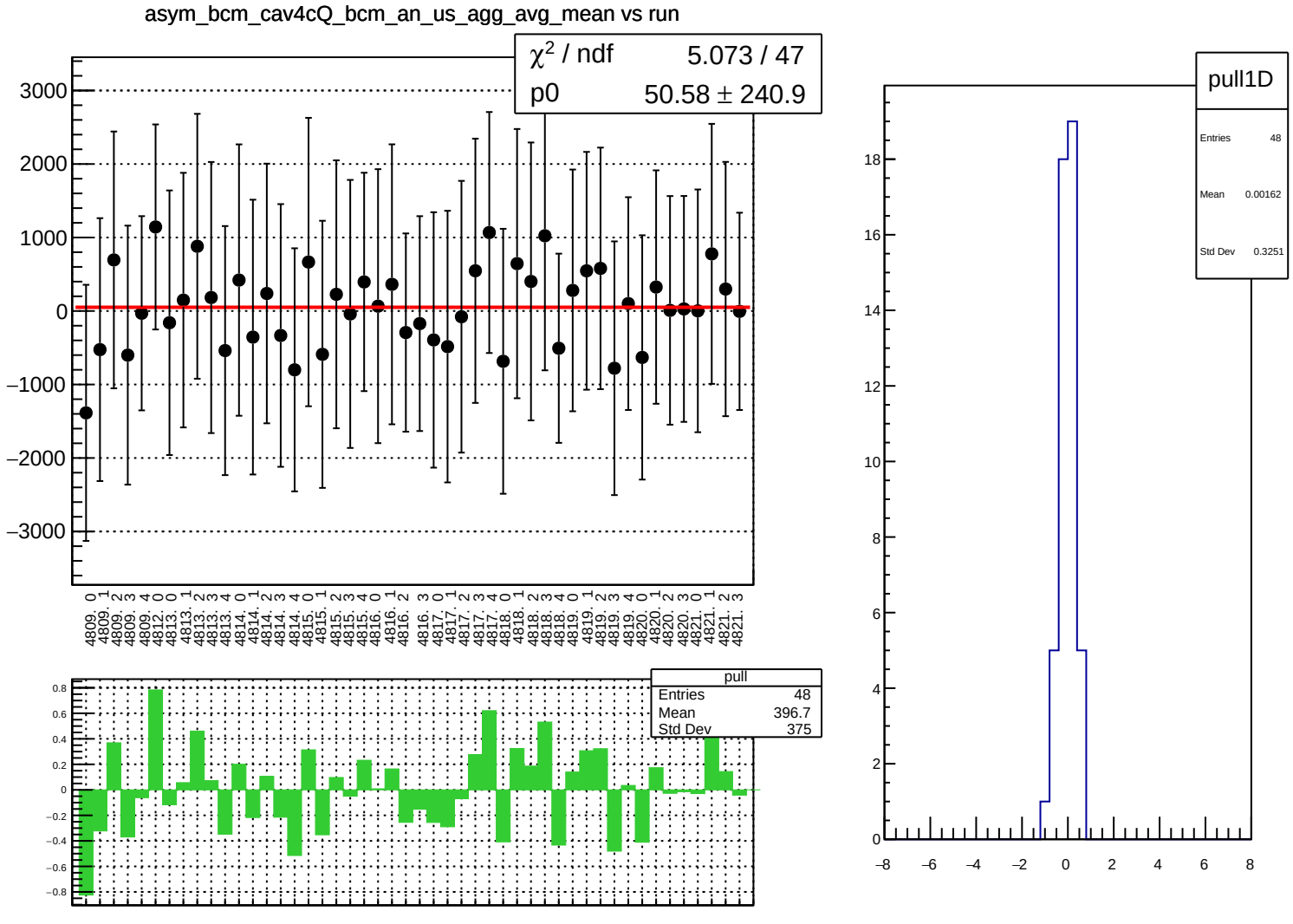
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3


asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 48.6 / 47
p0 33.45 ± 34.59
pull
Entries 48
Mean 193.5
Std Dev 144.5


pull1D
Entries 48
Mean 0.004872
Std Dev 1.006


asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1157 / 47
p0 24.12 ± 0.02446
26
25
24
23
22
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3


asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 5.073 / 47
p0 50.58 ± 240.9
3000
2000
1000
0
−1000
−2000
−3000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
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4815. 2
4815. 3
4815. 4
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4816. 1
4816. 2
4816. 3
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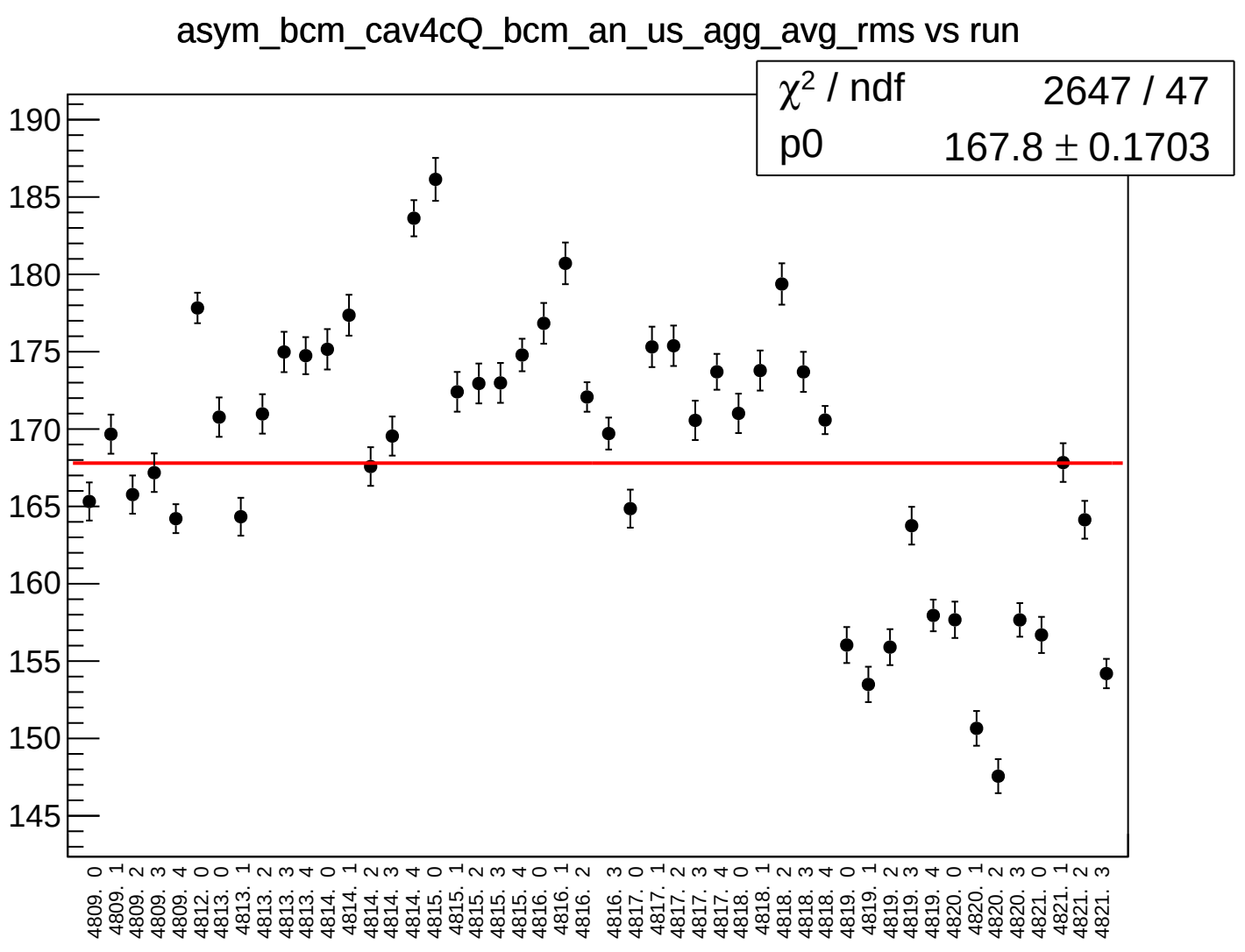
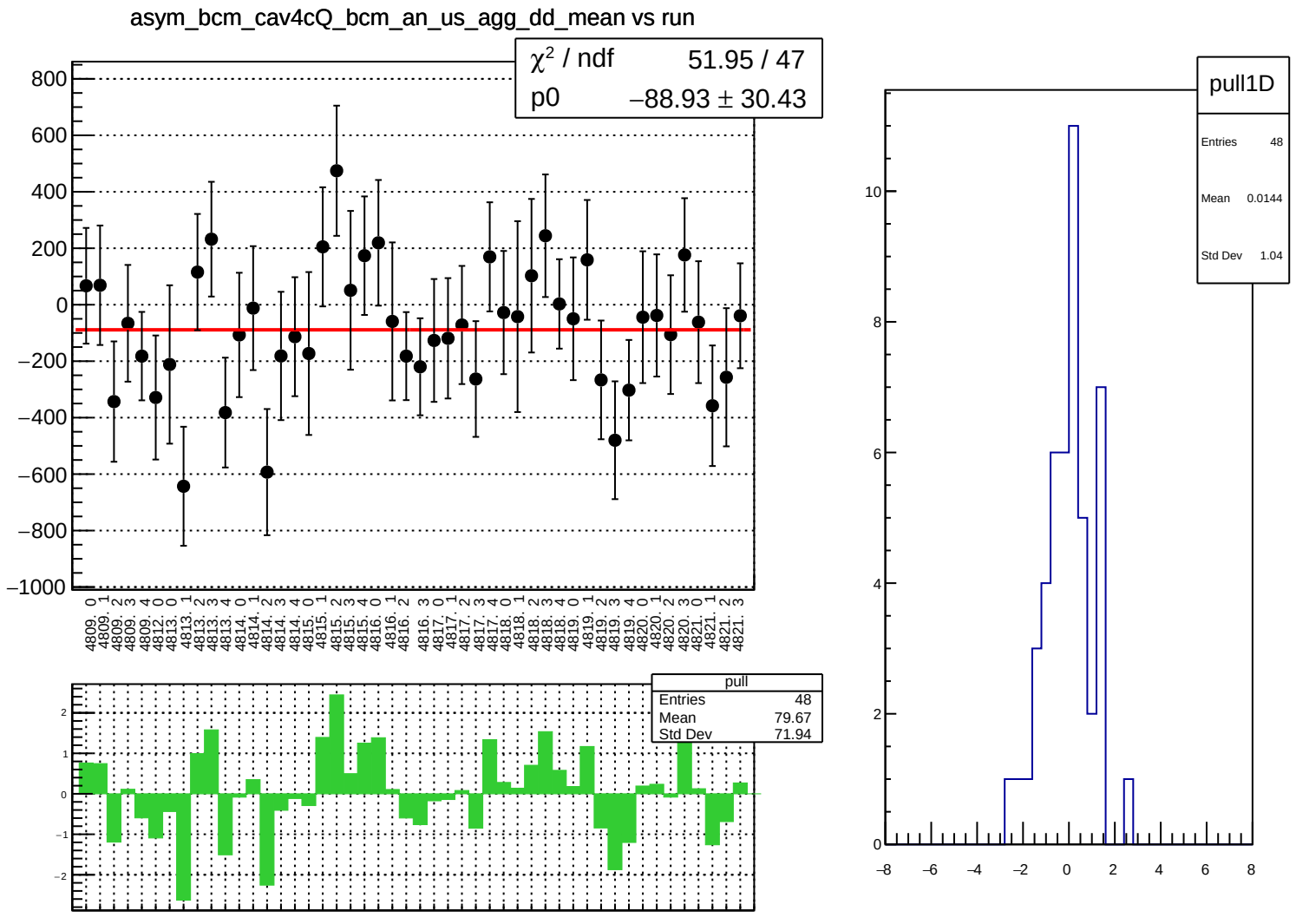
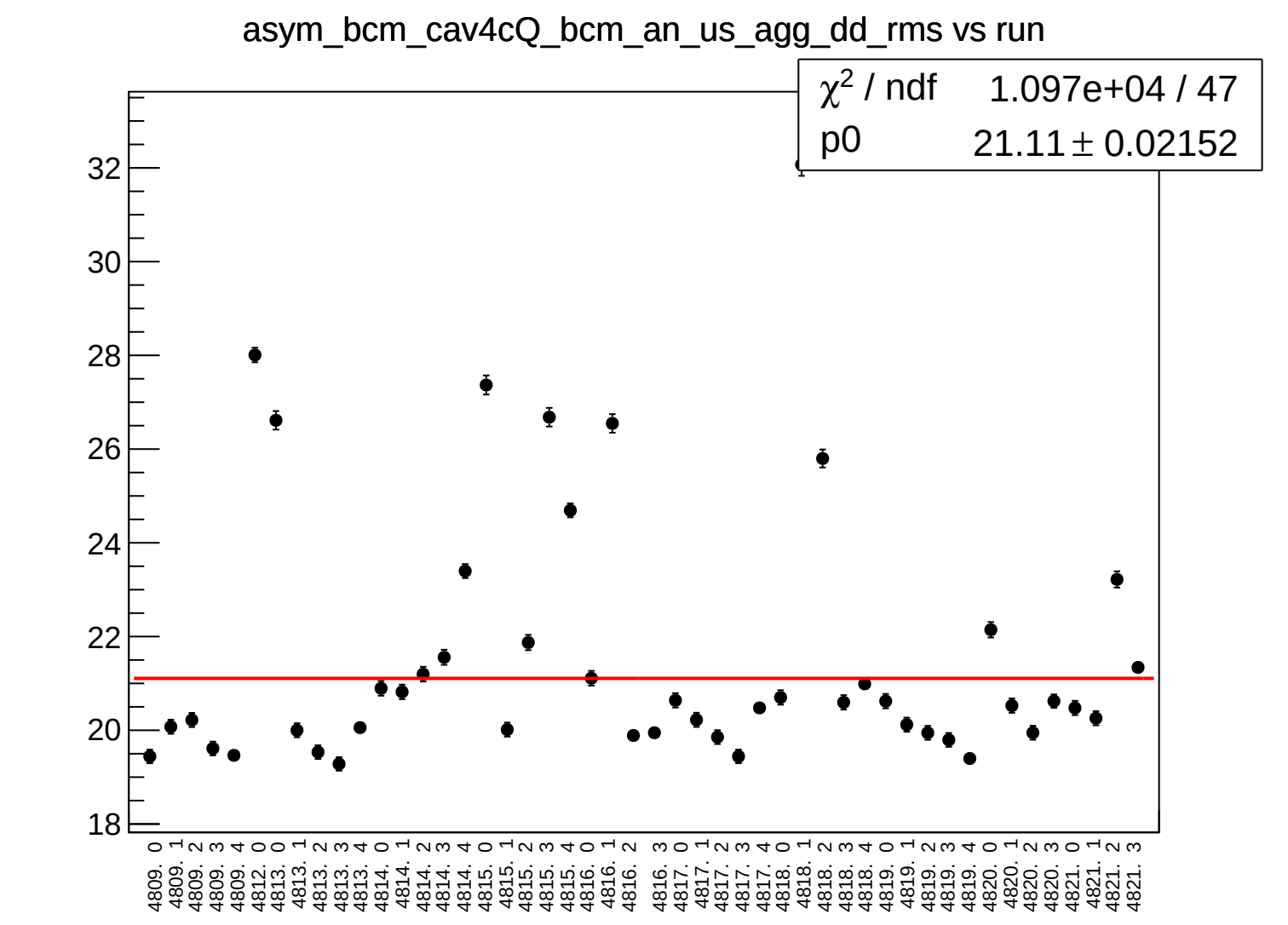
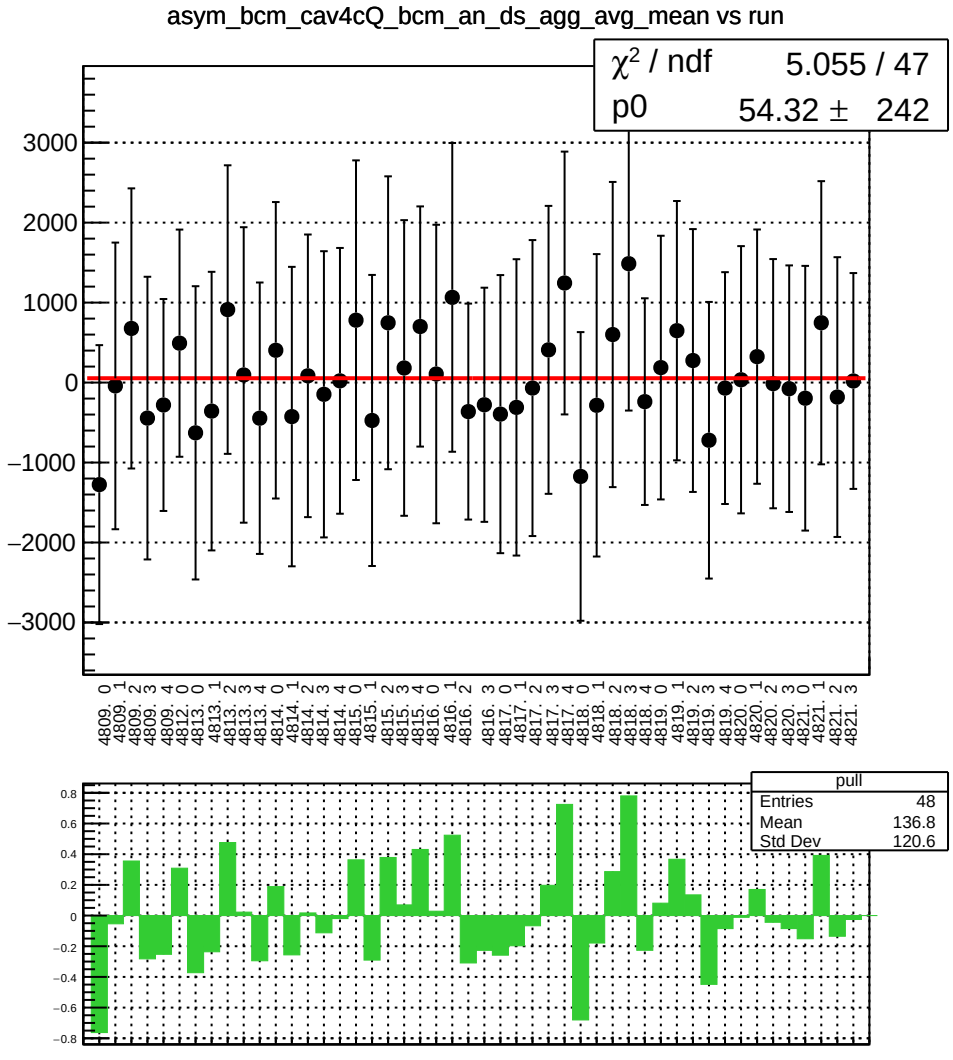
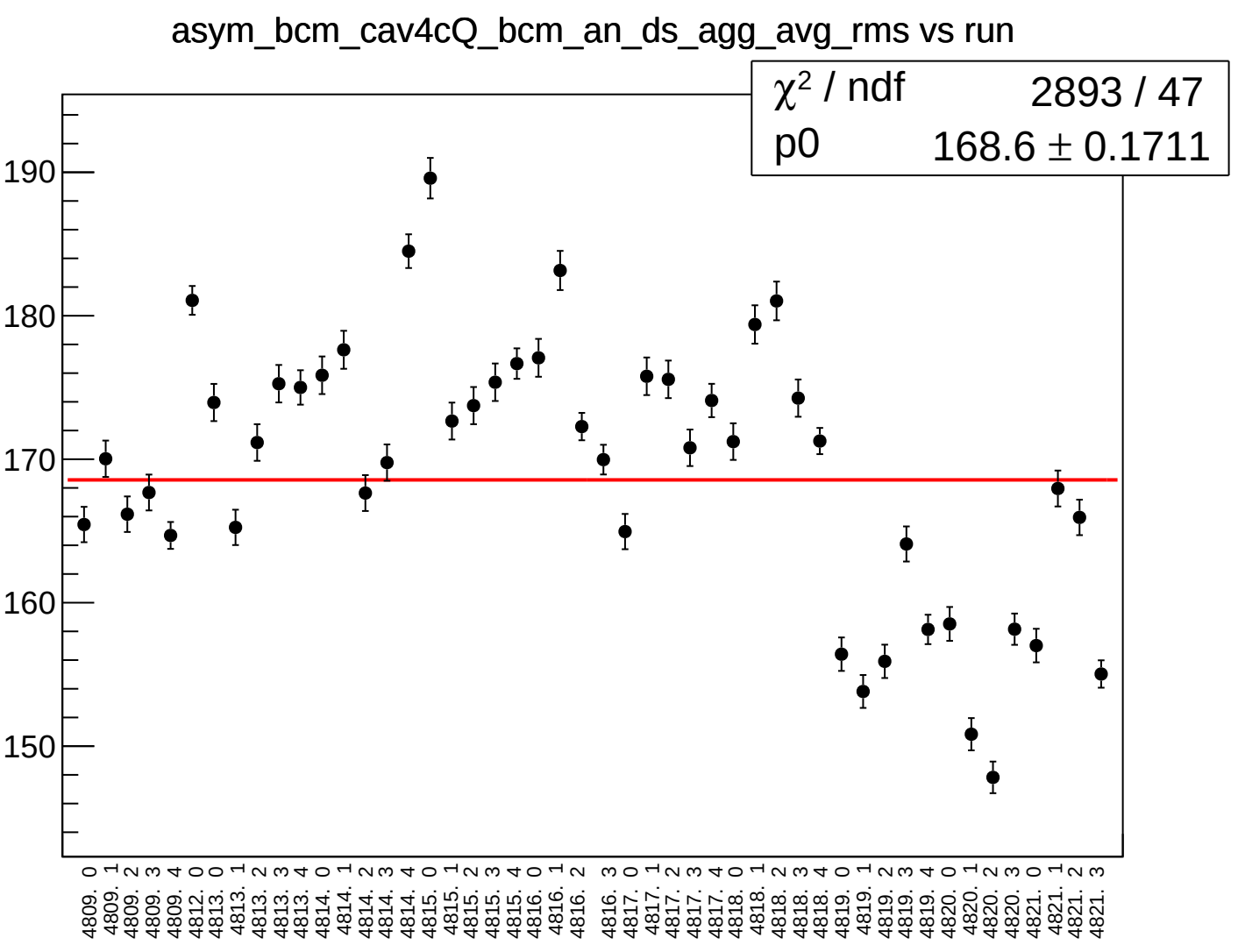
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 396.7
Std Dev 375
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 48
Mean 0.00162
Std Dev 0.3251
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 2647 / 47
p0 167.8 ± 0.1703
190
185
180
175
170
165
160
155
150
145
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3


asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 51.95 / 47
p0 −88.93 ± 30.43
pull
Entries 48
Mean 79.67
Std Dev 71.94
pull1D
Entries 48
Mean 0.0144
Std Dev 1.04


asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1.097e+04 / 47
p0 21.11 ± 0.02152
32
30
28
26
24
22
20
18
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3


asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 5.055 / 47
p0 54.32 ± 242
3000
2000
1000
0
−1000
−2000
−3000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 136.8
Std Dev 120.6
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 48
Mean 0.004852
Std Dev 0.3245
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2893 / 47
p0 168.6 ± 0.1711
190
180
170
160
150
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
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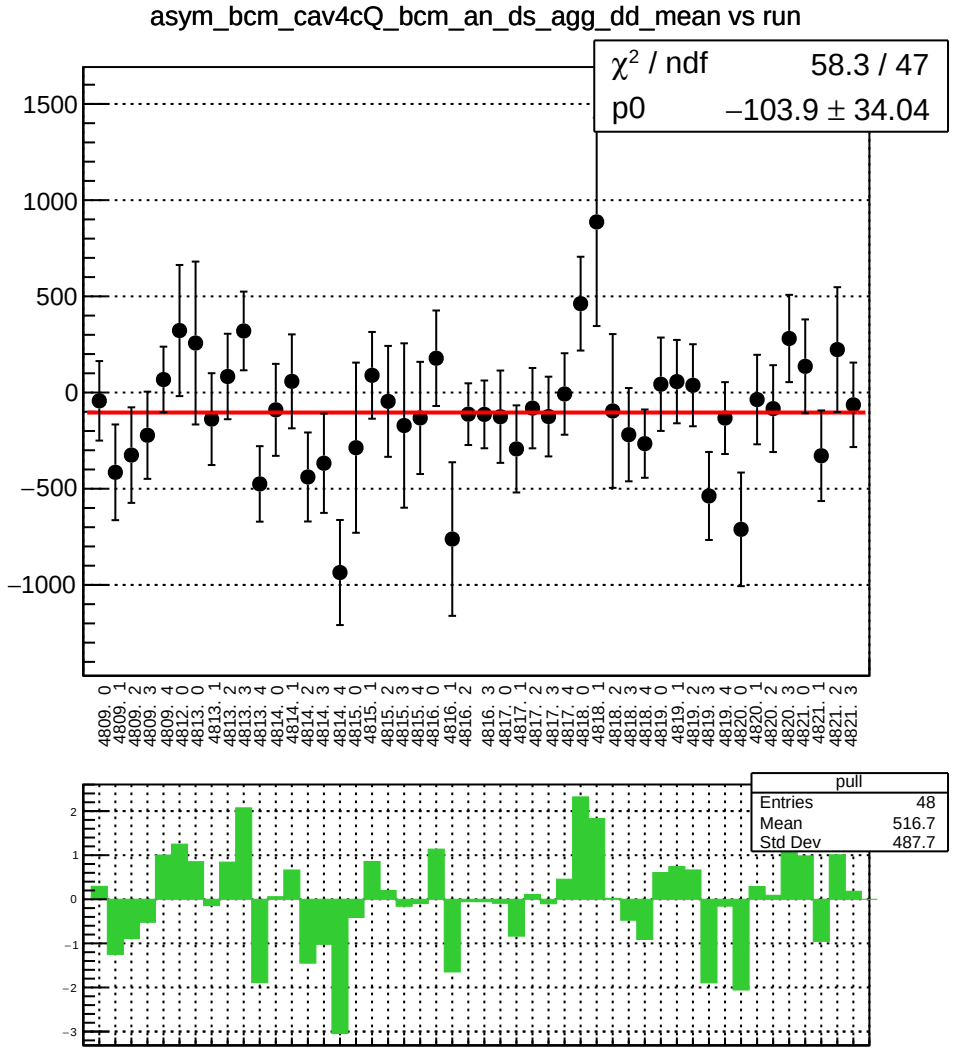
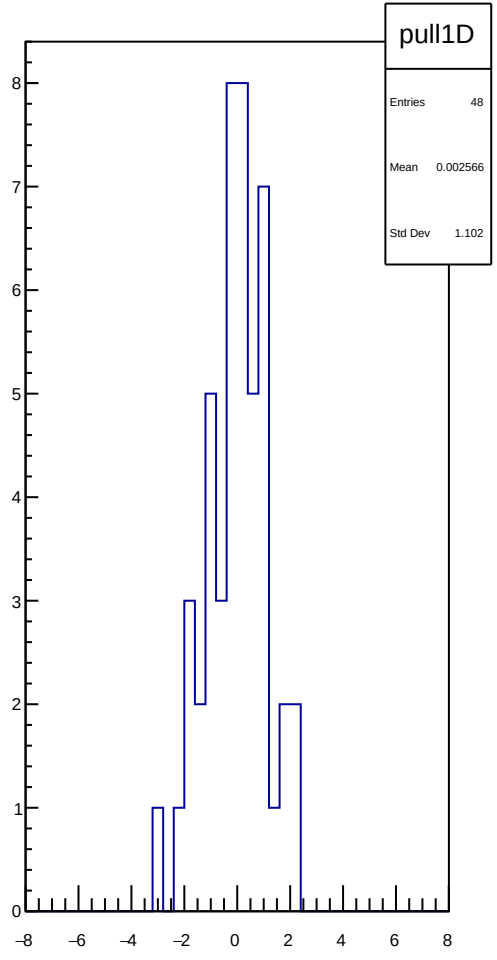
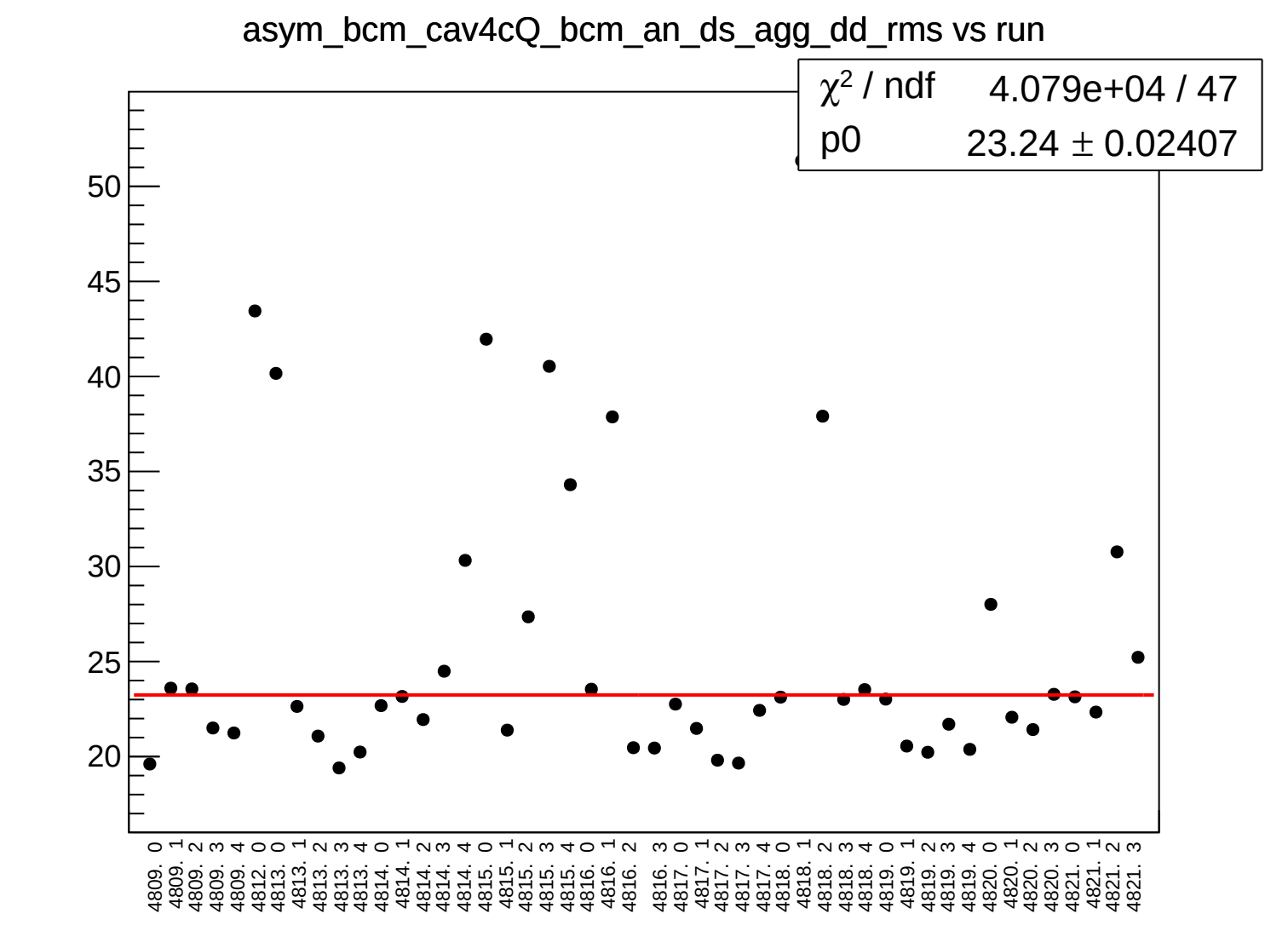
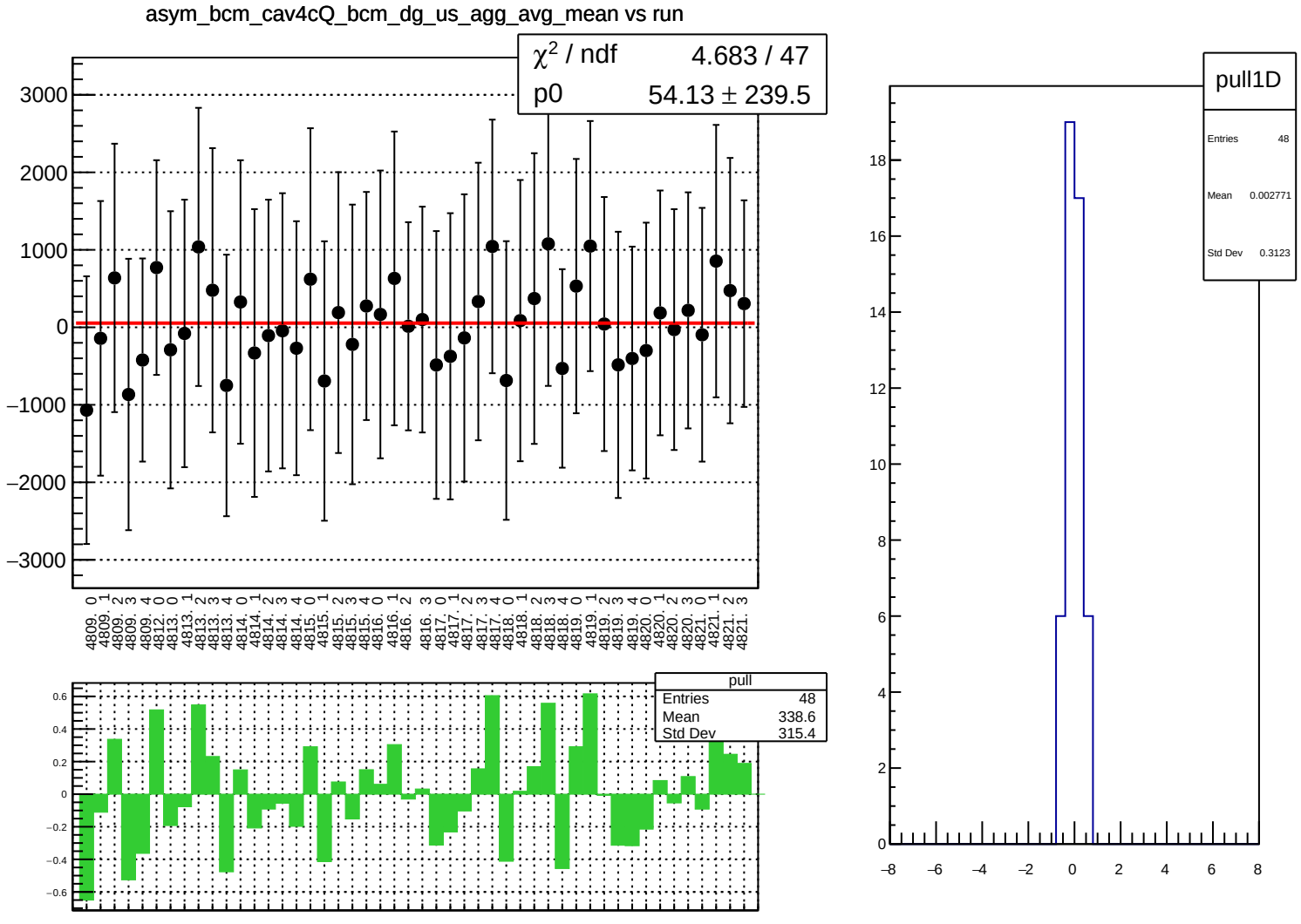
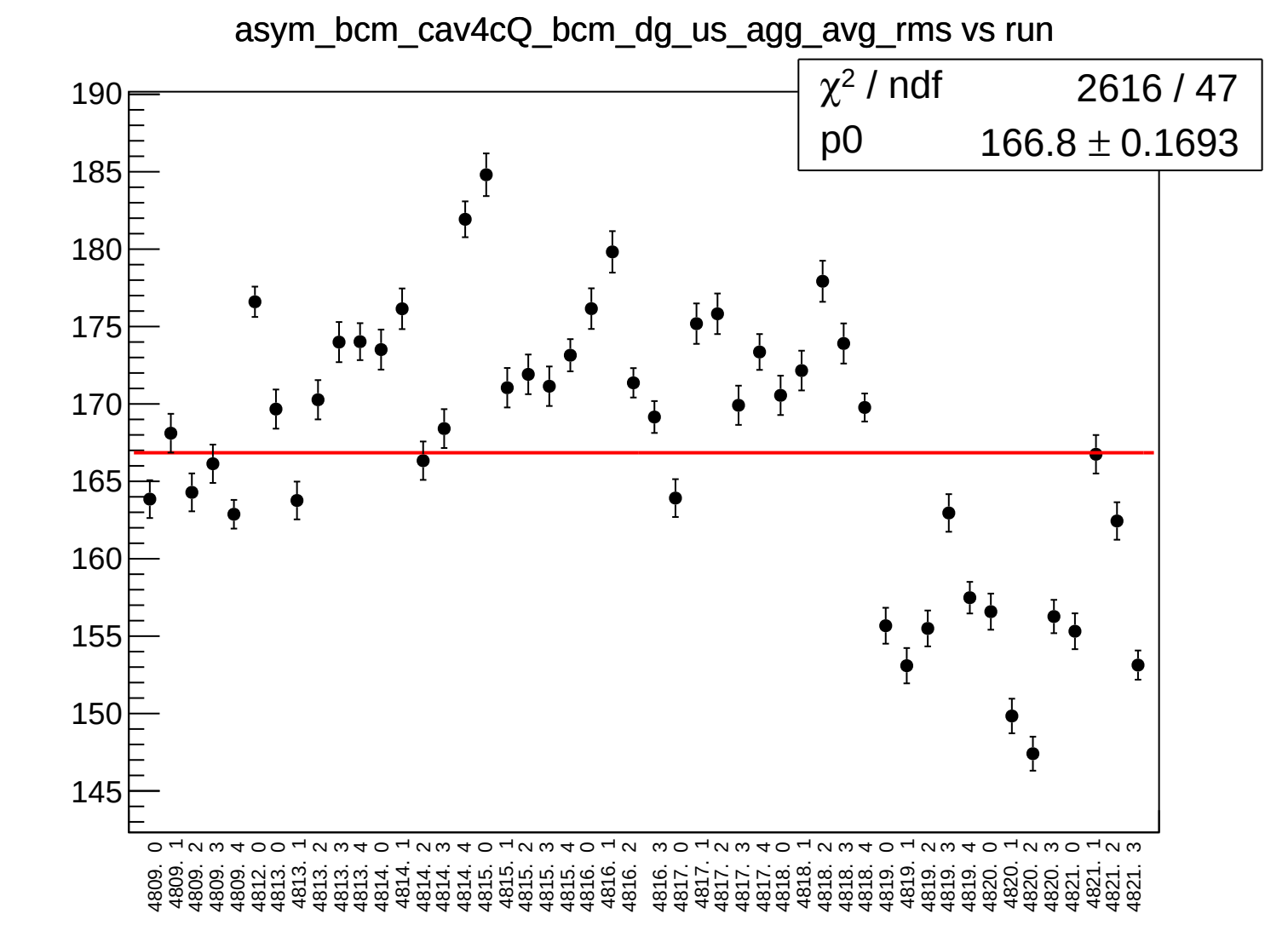
4821. 2
4821. 3

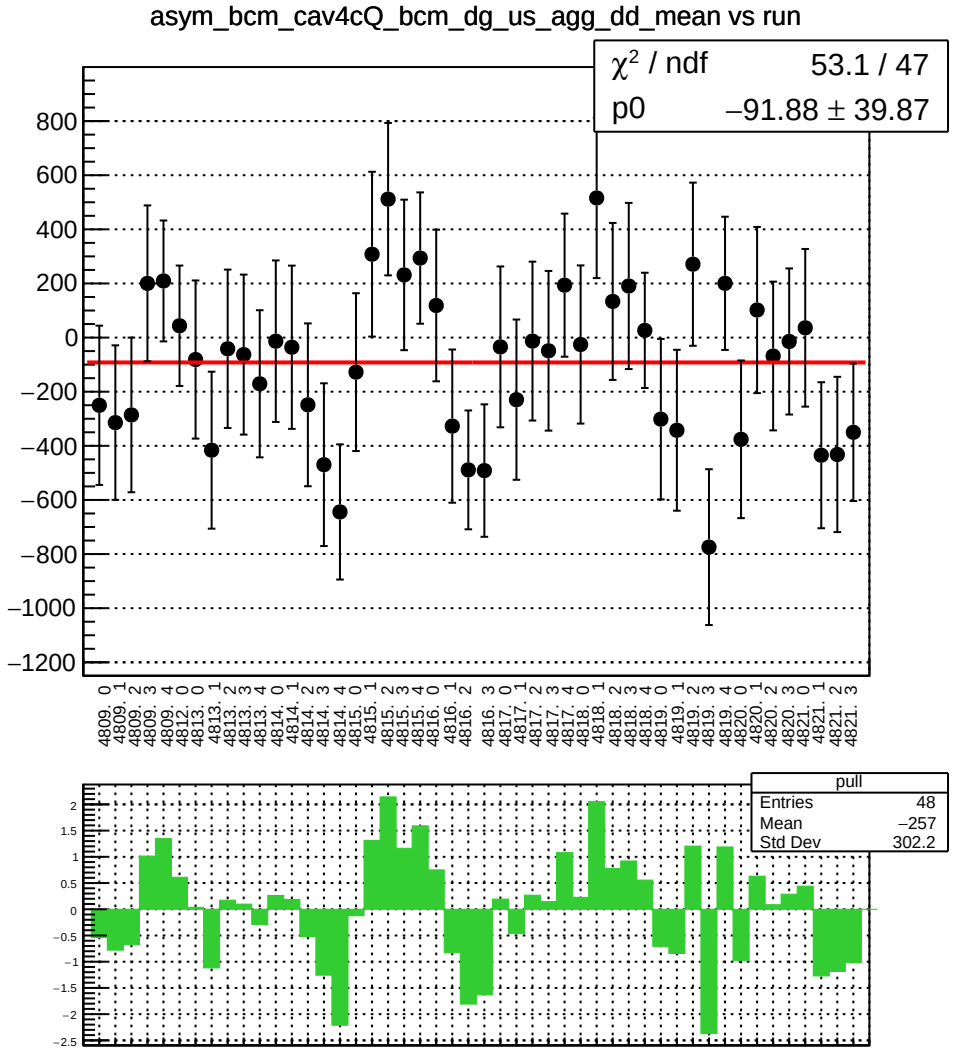

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 58.3 / 47
p0 −103.9 ± 34.04
1500
1000
500
0
−500
−1000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 516.7
Std Dev 487.7
2
1
0
−1
−2
−3

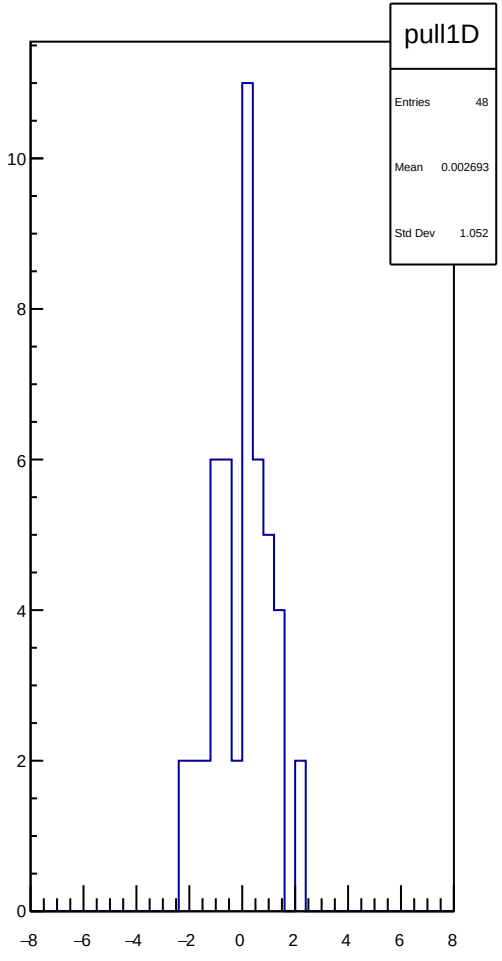

pull1D
Entries 48
Mean 0.002566
Std Dev 1.102
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

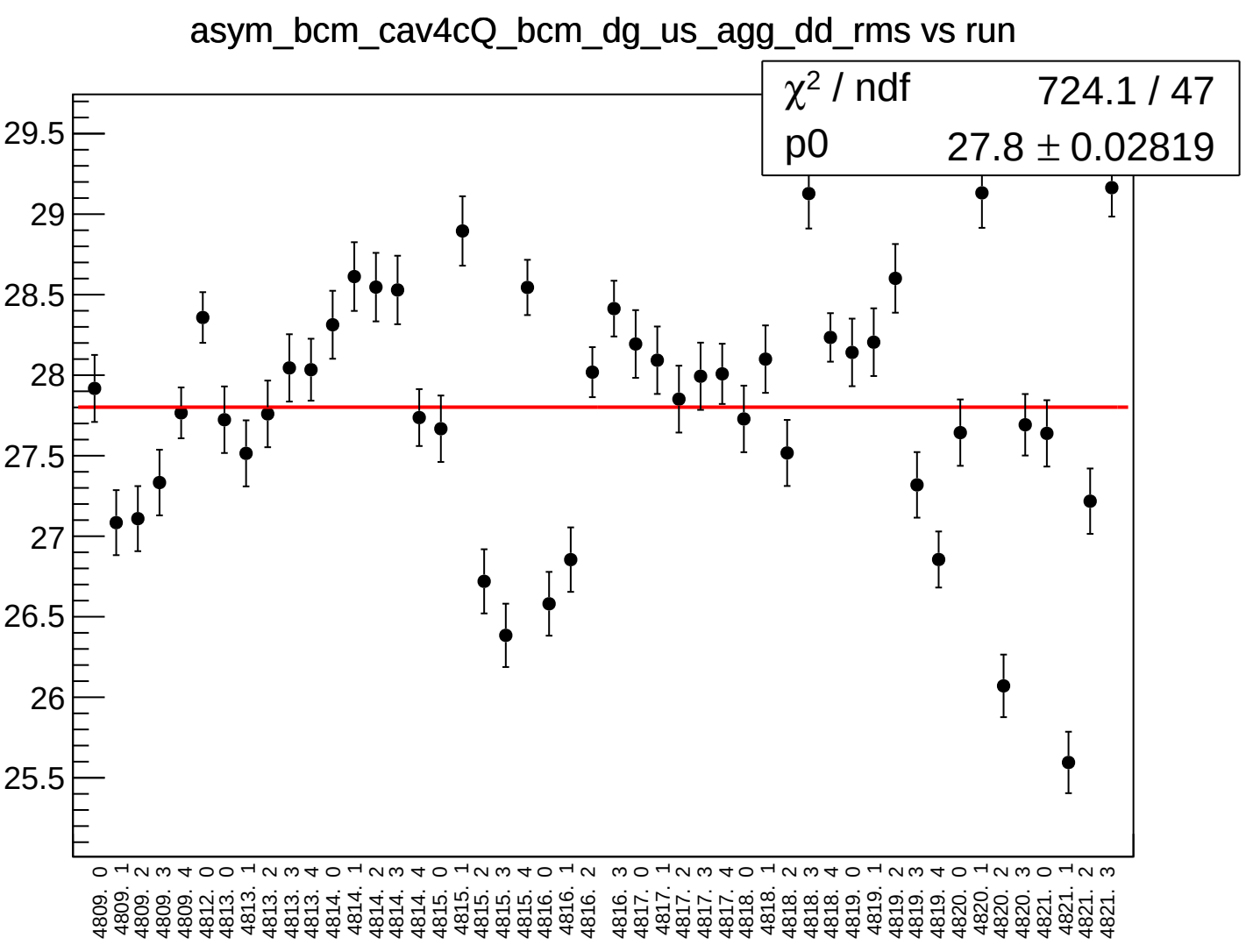

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 4.079e+04 / 47
p0 23.24 ± 0.02407
50
45
40
35
30
25
20
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

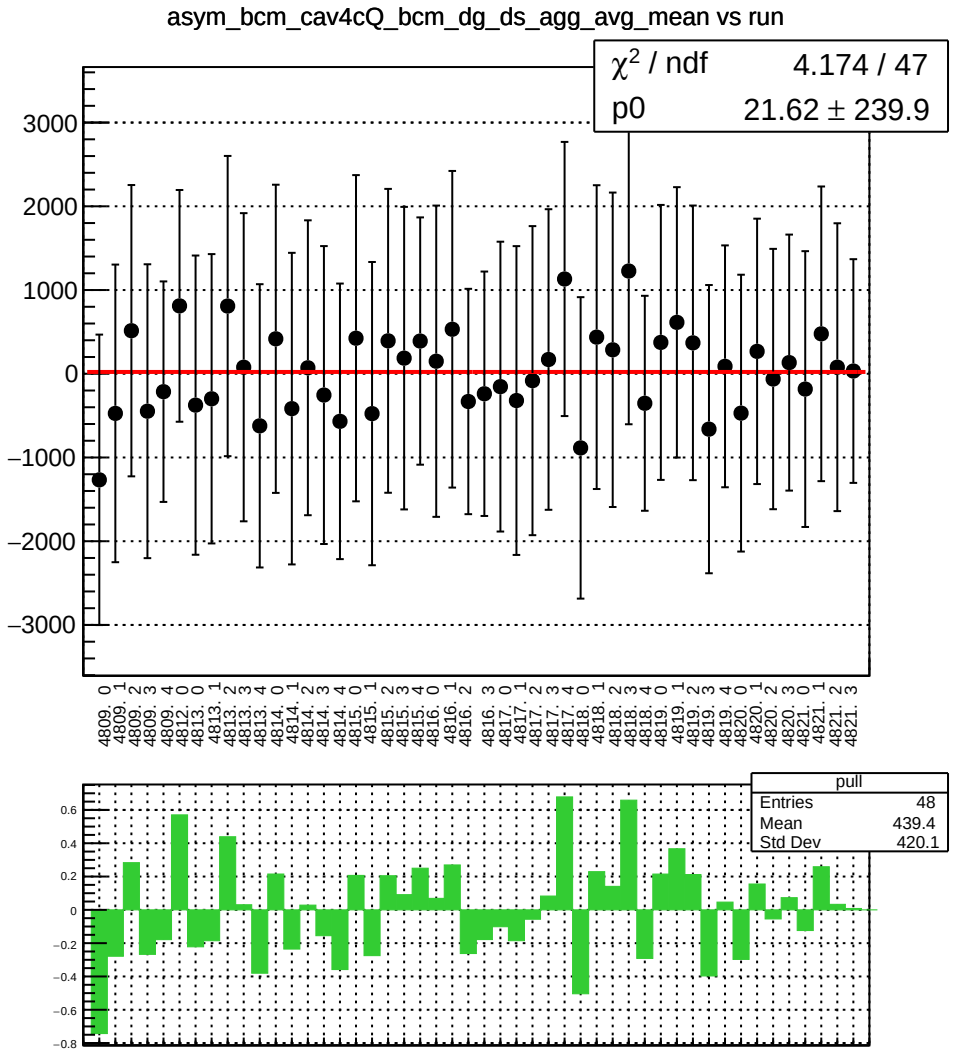

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 4.683 / 47
p0 54.13 ± 239.5
3000
2000
1000
0
−1000
−2000
−3000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 338.6
Std Dev 315.4
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 48
Mean 0.002771
Std Dev 0.3123
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

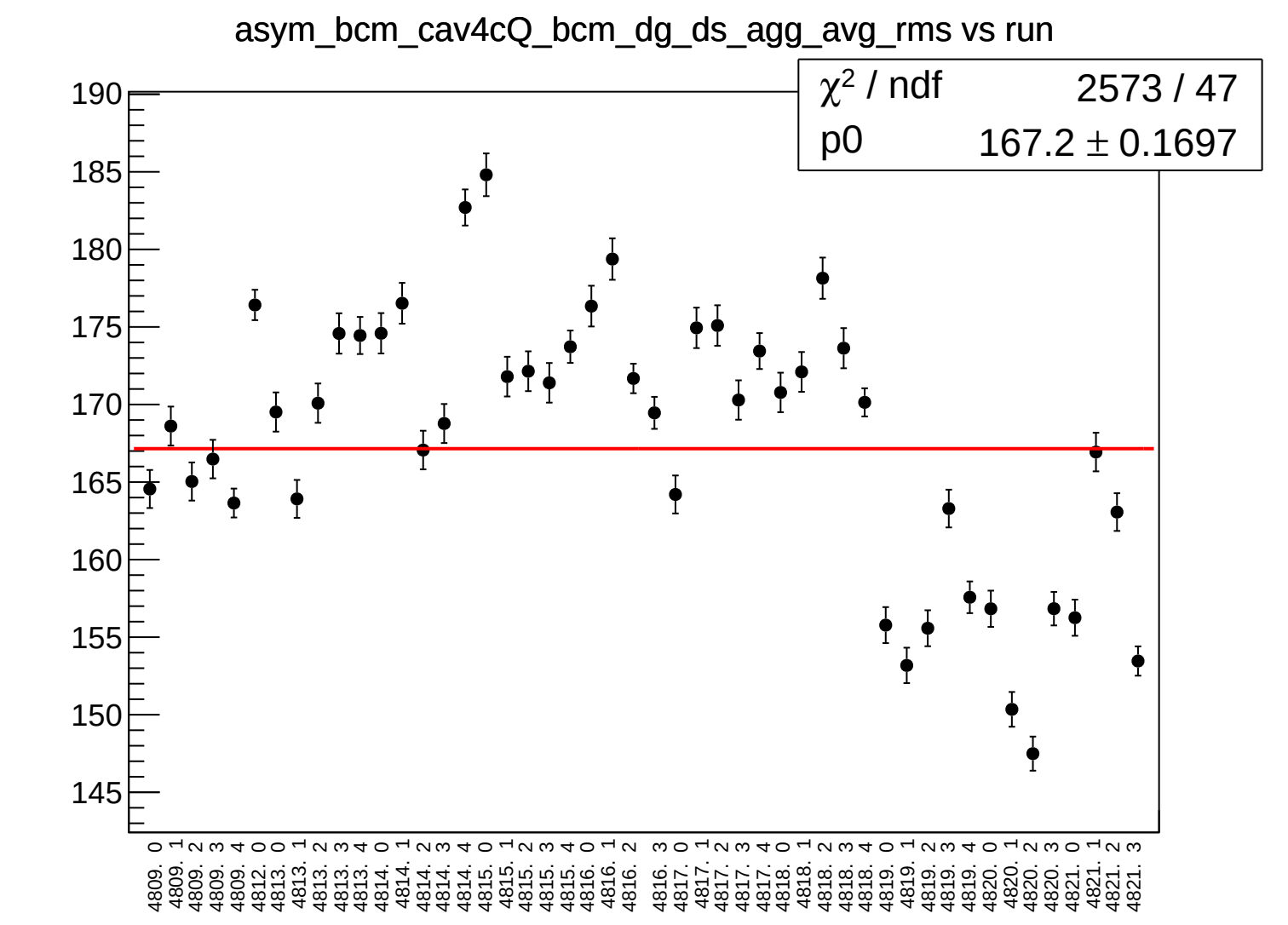

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 2616 / 47
p0 166.8 ± 0.1693
190
185
180
175
170
165
160
155
150
145
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3


asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 53.1 / 47
p0 −91.88 ± 39.87
pull
Entries 48
Mean −257
Std Dev 302.2


pull1D
Entries 48
Mean 0.002693
Std Dev 1.052


asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 724.1 / 47
p0 27.8 ± 0.02819
29.5
29
28.5
28
27.5
27
26.5
26
25.5
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3


asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 4.174 / 47
p0 21.62 ± 239.9
3000
2000
1000
0
−1000
−2000
−3000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 439.4
Std Dev 420.1
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 48
Mean 0.001785
Std Dev 0.2949
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 2573 / 47
p0 167.2 ± 0.1697
190
185
180
175
170
165
160
155
150
145
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
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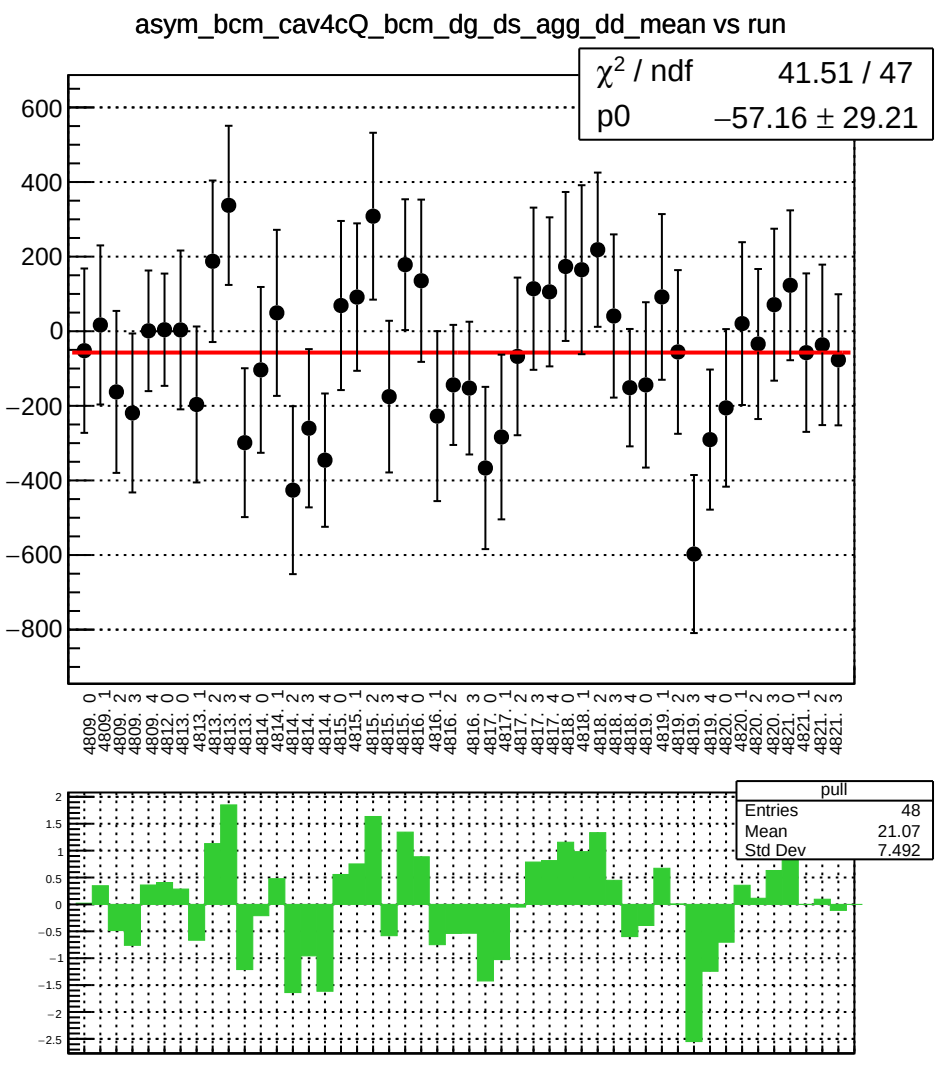
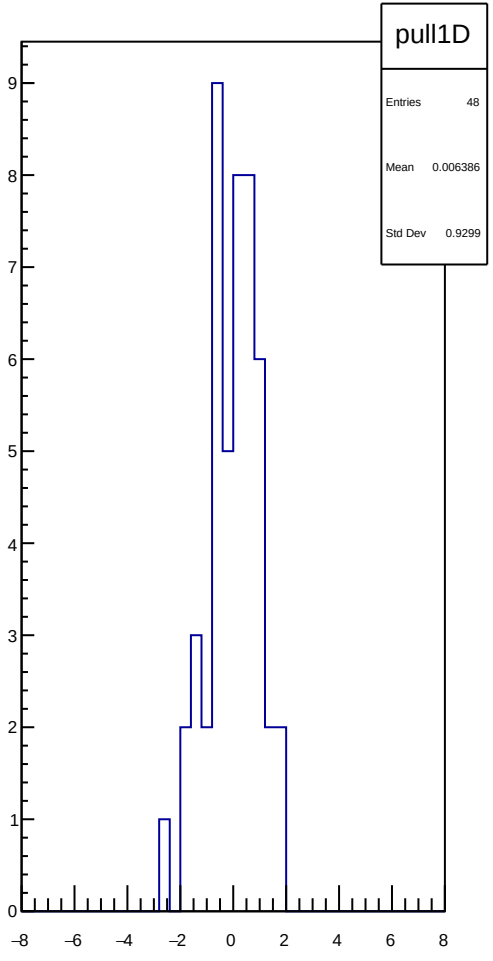
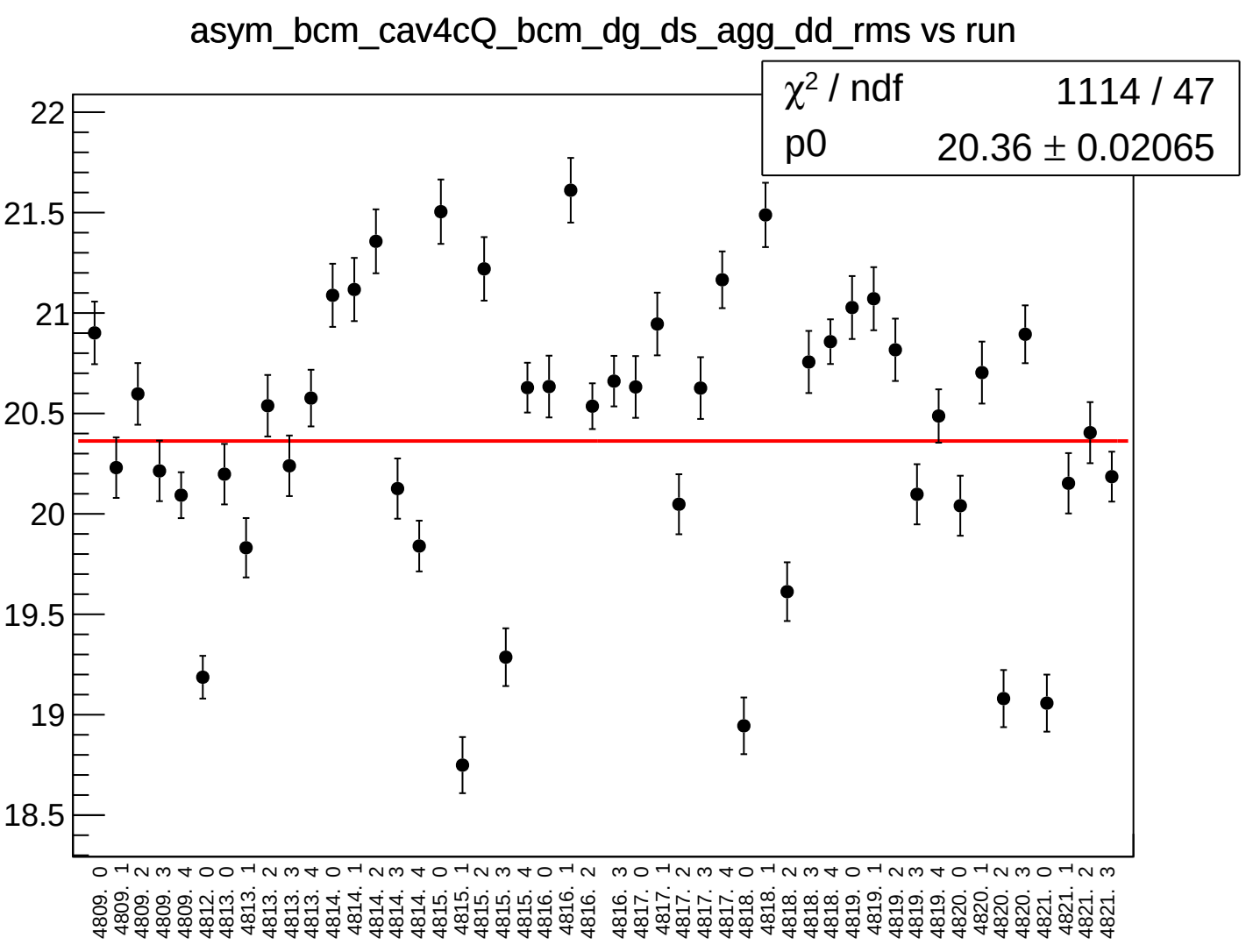
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3


asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 41.51 / 47
p0 −57.16 ± 29.21
pull
Entries 48
Mean 21.07
Std Dev 7.492


pull1D
Entries 48
Mean 0.006386
Std Dev 0.9299


asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1114 / 47
p0 20.36 ± 0.02065
22
21.5
21
20.5
20
19.5
19
18.5
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
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4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
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4819. 1
4819. 2
4819. 3
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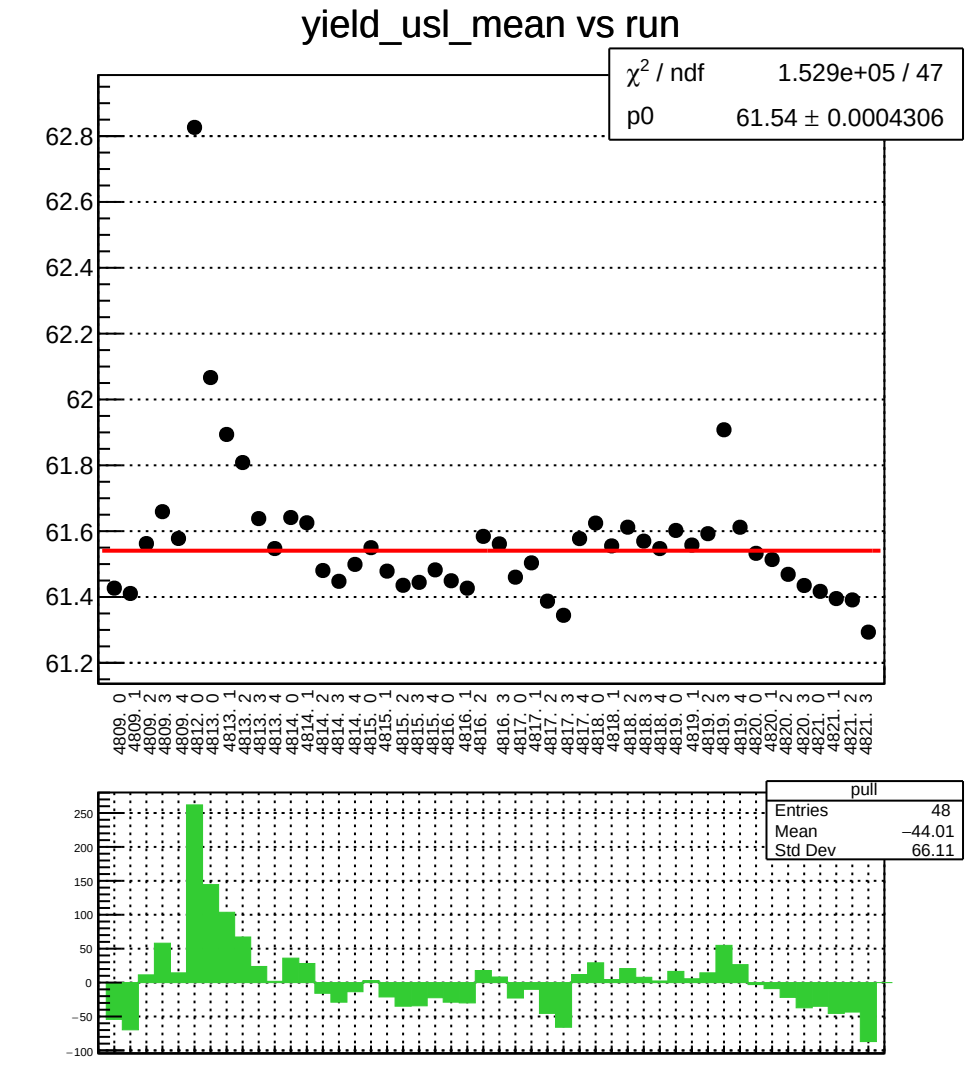
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3


yield_usl_mean vs run
χ² / ndf 1.529e+05 / 47
p0 61.54 ± 0.0004306
62.8
62.6
62.4
62.2
62
61.8
61.6
61.4
61.2
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
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4813. 1
4813. 2
4813. 3
4813. 4
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4815. 0
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4819. 2
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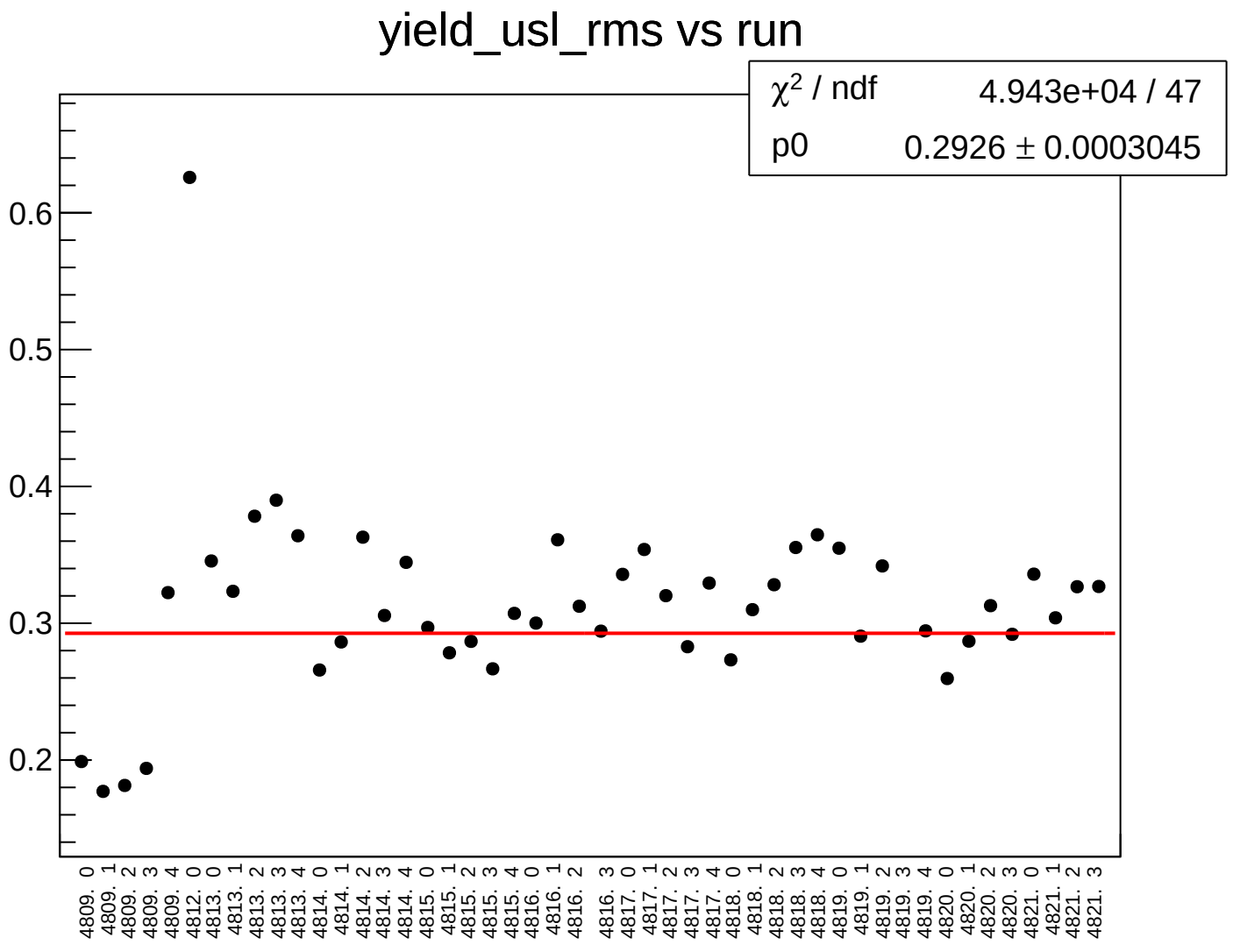
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean −44.01
Std Dev 66.11
250
200
150
100
50
0
−50
−100
pull1D
Entries 48
Mean 3.153
Std Dev 3.12
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_usl_rms vs run
χ² / ndf 4.943e+04 / 47
p0 0.2926 ± 0.0003045
0.6
0.5
0.4
0.3
0.2
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
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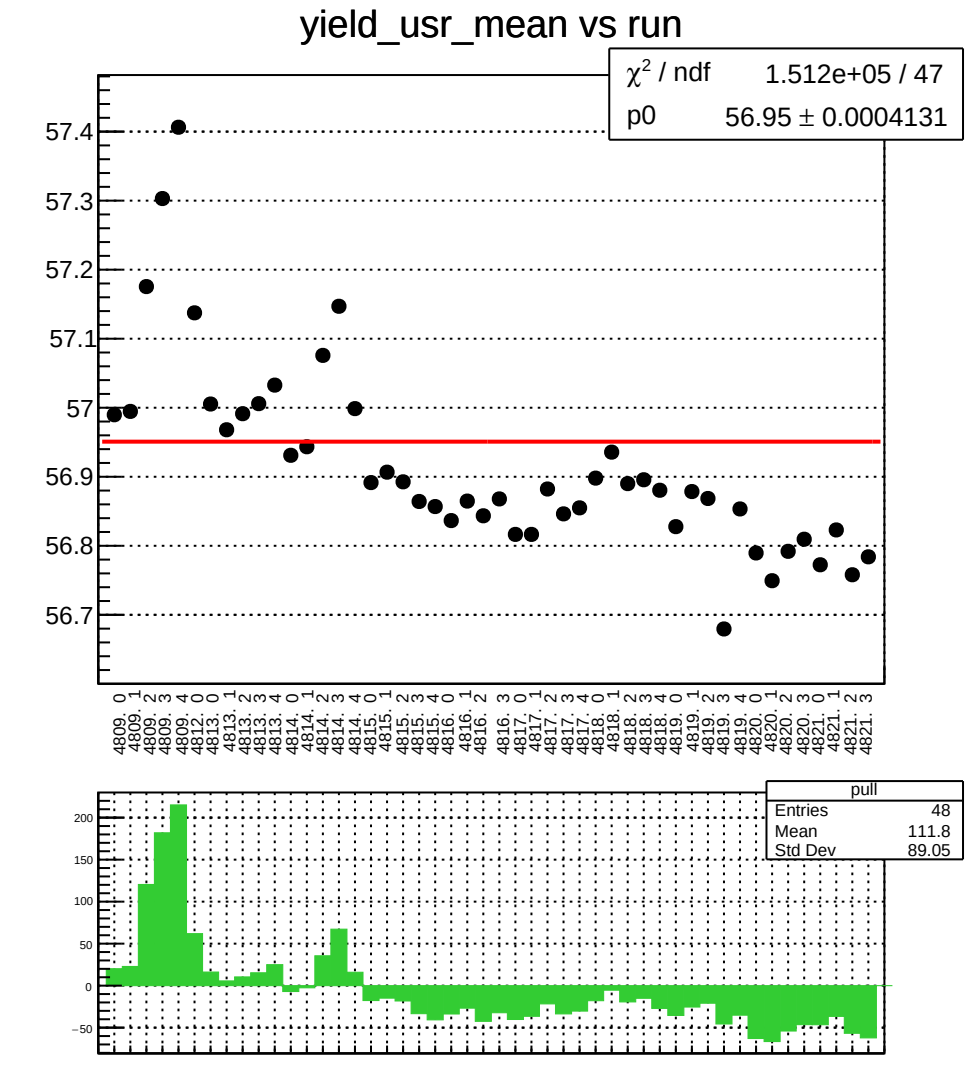
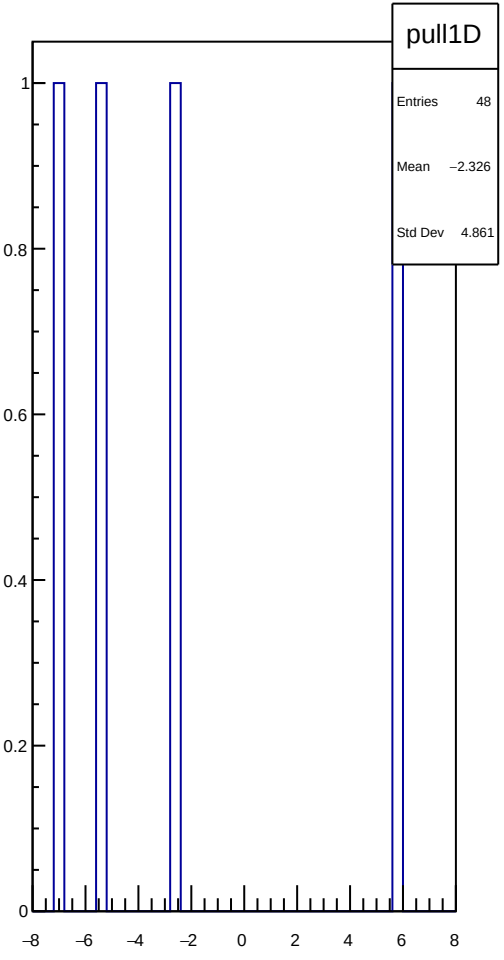
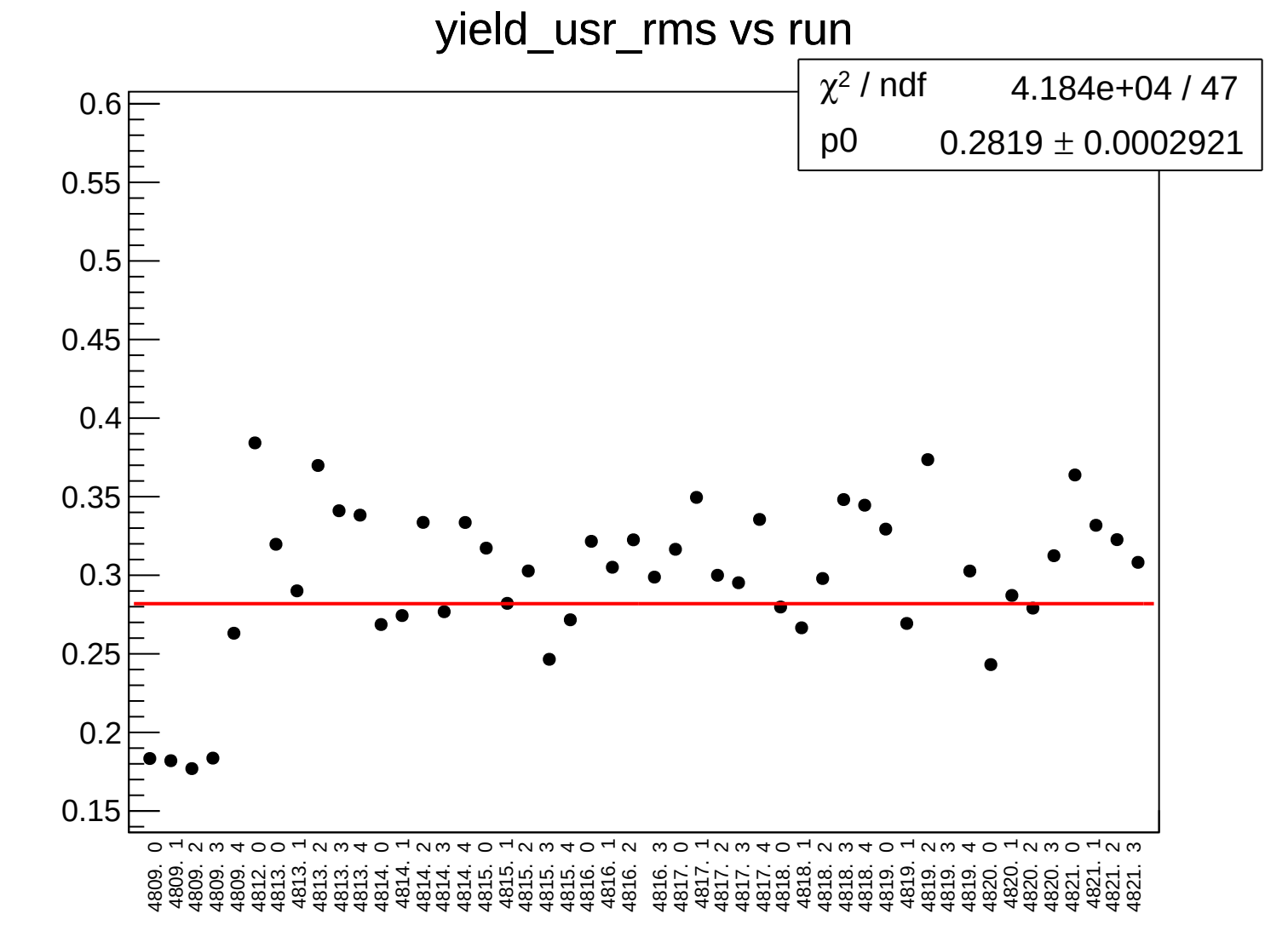
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3


yield_usr_mean vs run
χ² / ndf 1.512e+05 / 47
p0 56.95 ± 0.0004131
57.4
57.3
57.2
57.1
57
56.9
56.8
56.7
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 111.8
Std Dev 89.05
200
150
100
50
0
−50


pull1D
Entries 48
Mean −2.326
Std Dev 4.861
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_usr_rms vs run
χ² / ndf 4.184e+04 / 47
p0 0.2819 ± 0.0002921
0.6
0.55
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
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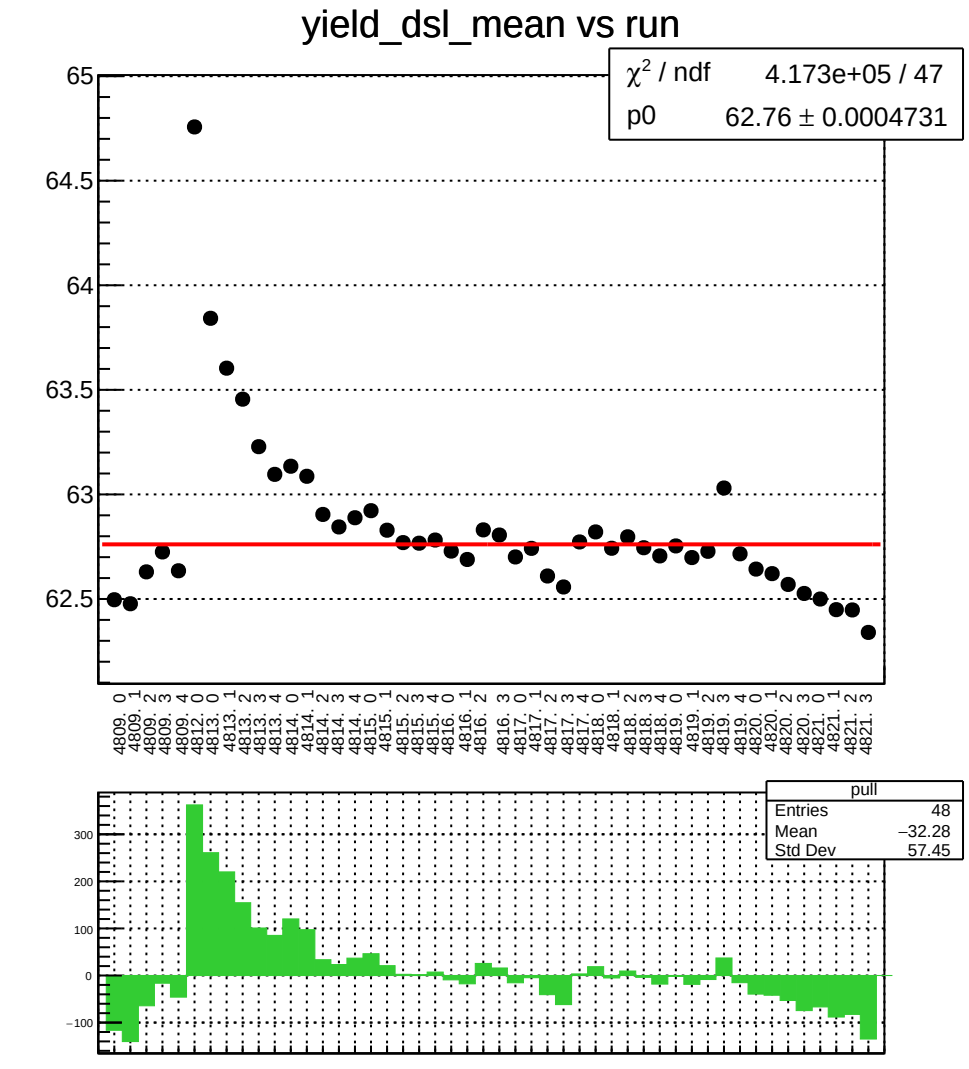
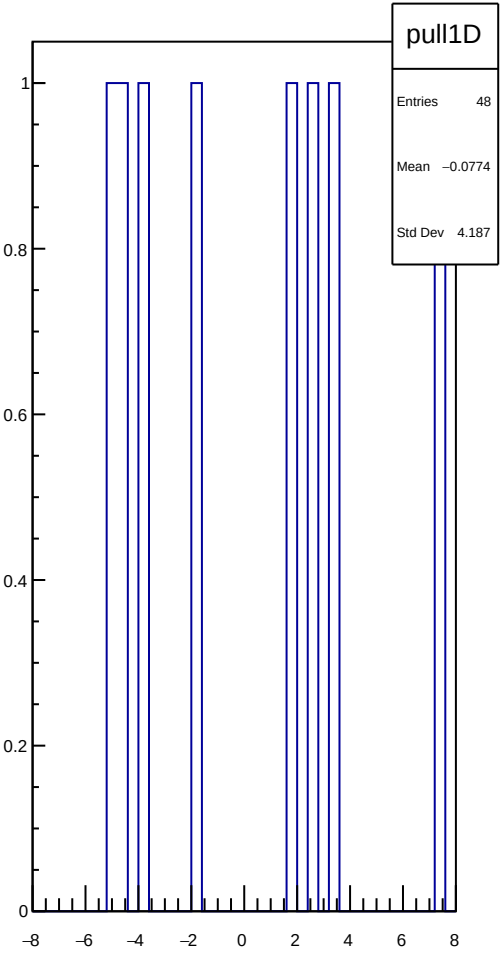
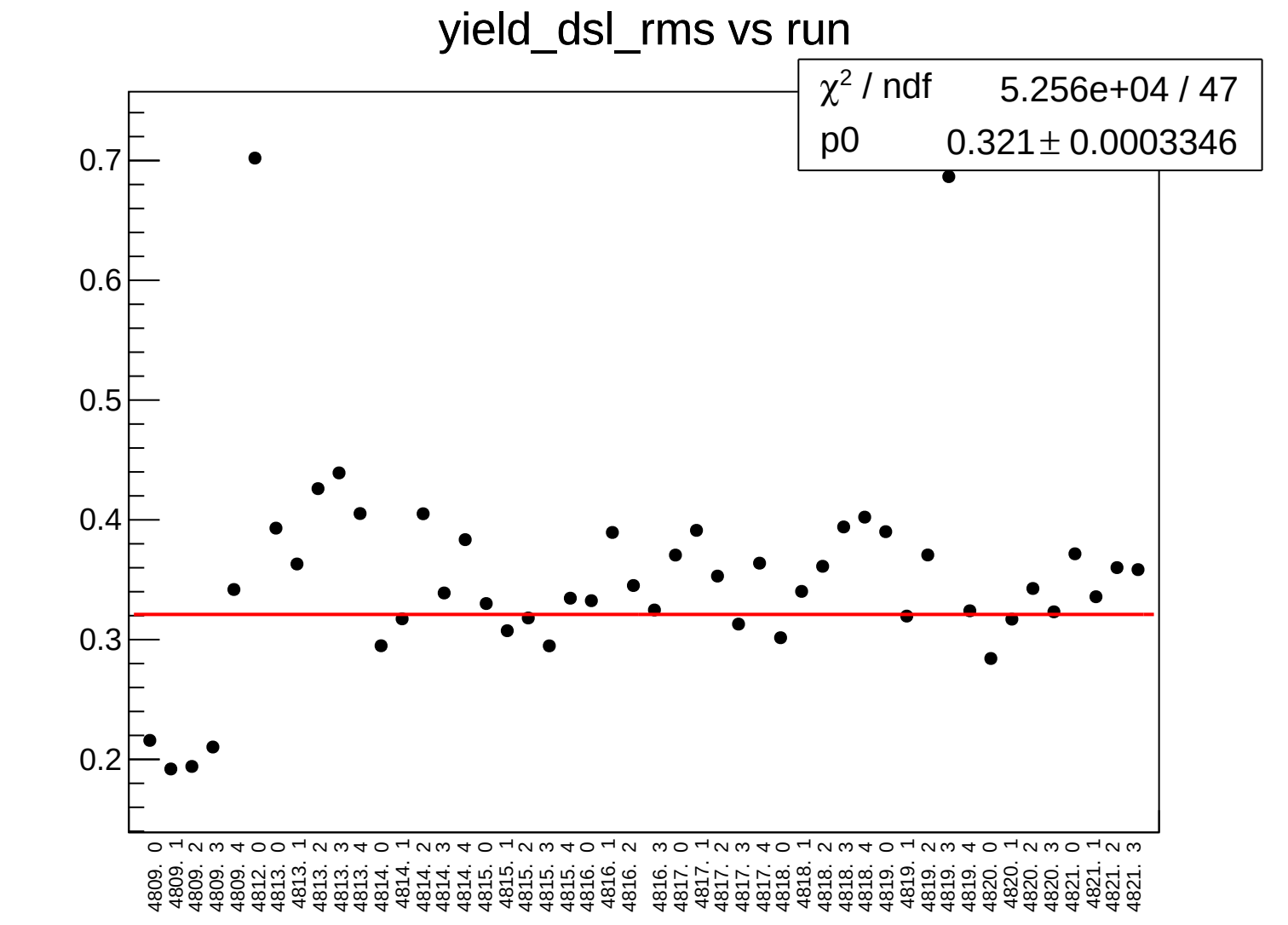
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3


yield_dsl_mean vs run
χ² / ndf 4.173e+05 / 47
p0 62.76 ± 0.0004731
65
64.5
64
63.5
63
62.5
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean −32.28
Std Dev 57.45
300
200
100
0
−100


pull1D
Entries 48
Mean −0.0774
Std Dev 4.187
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_dsl_rms vs run
χ^2 / ndf 5.256e+04 / 47
p0 0.321 ± 0.0003346
0.7
0.6
0.5
0.4
0.3
0.2
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
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4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
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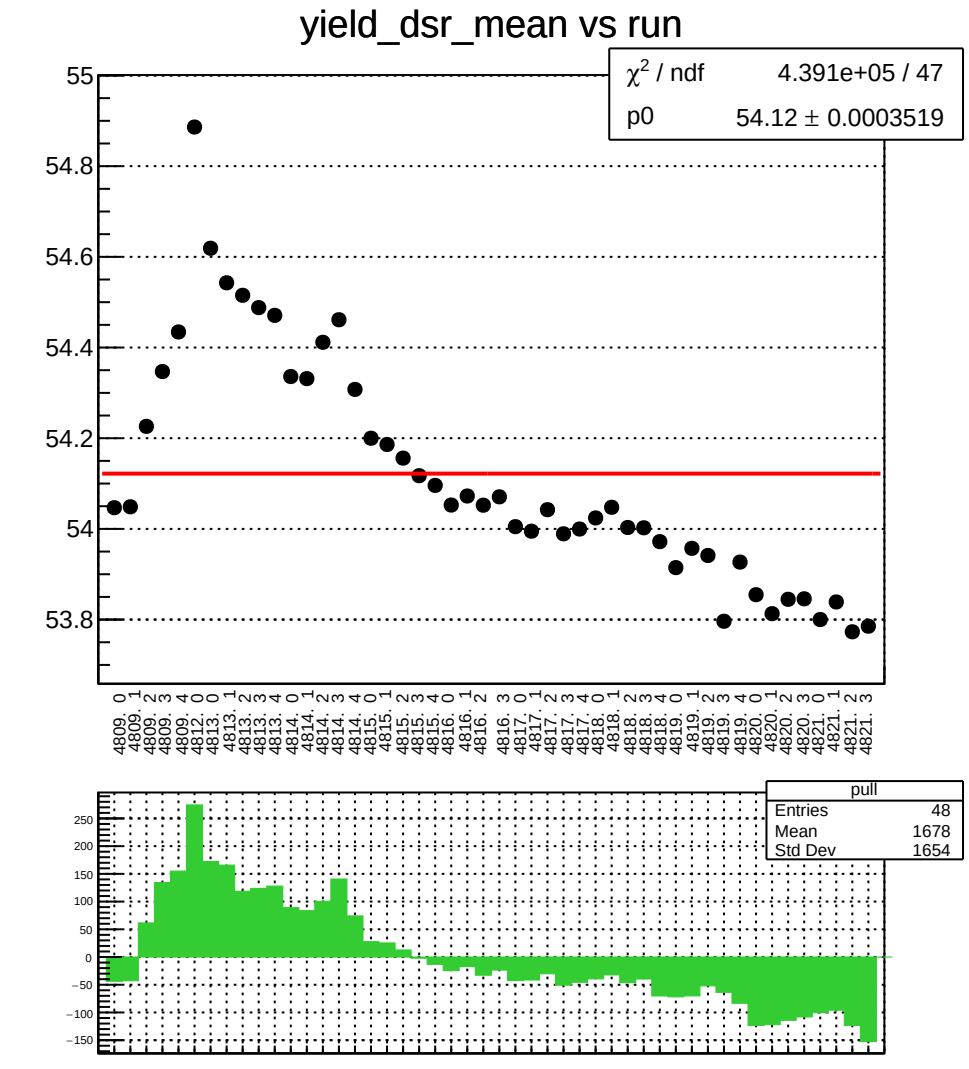
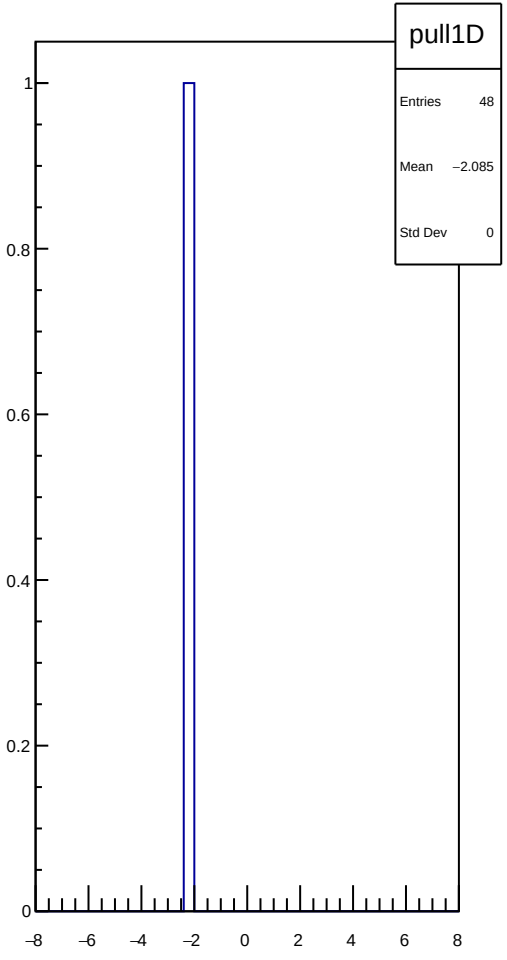
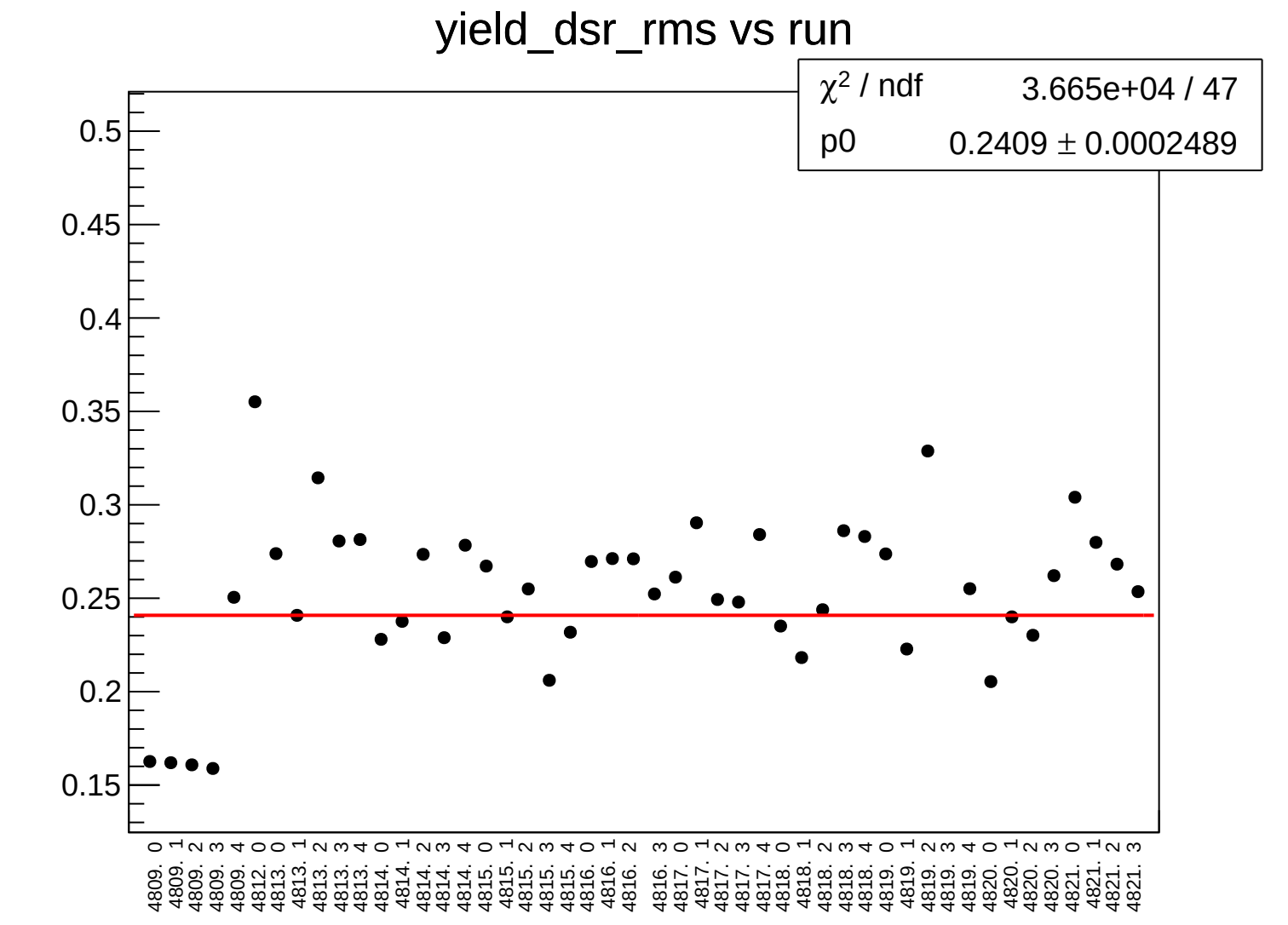
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3


yield_dsr_mean vs run
χ² / ndf 4.391e+05 / 47
p0 54.12 ± 0.0003519
55
54.8
54.6
54.4
54.2
54
53.8
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 1678
Std Dev 1654
250
200
150
100
50
0
−50
−100
−150


pull1D
Entries 48
Mean −2.085
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_dsr_rms vs run
χ² / ndf 3.665e+04 / 47
p0 0.2409 ± 0.0002489
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
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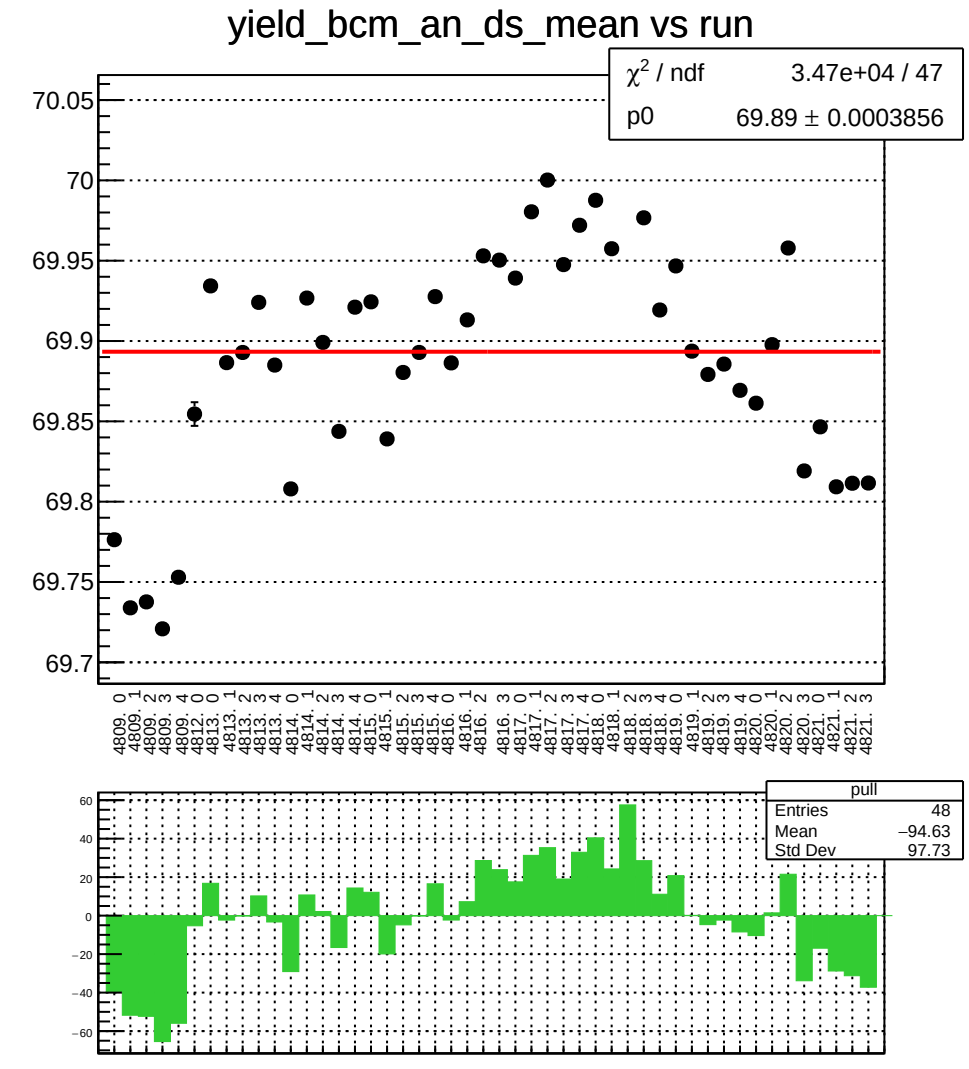
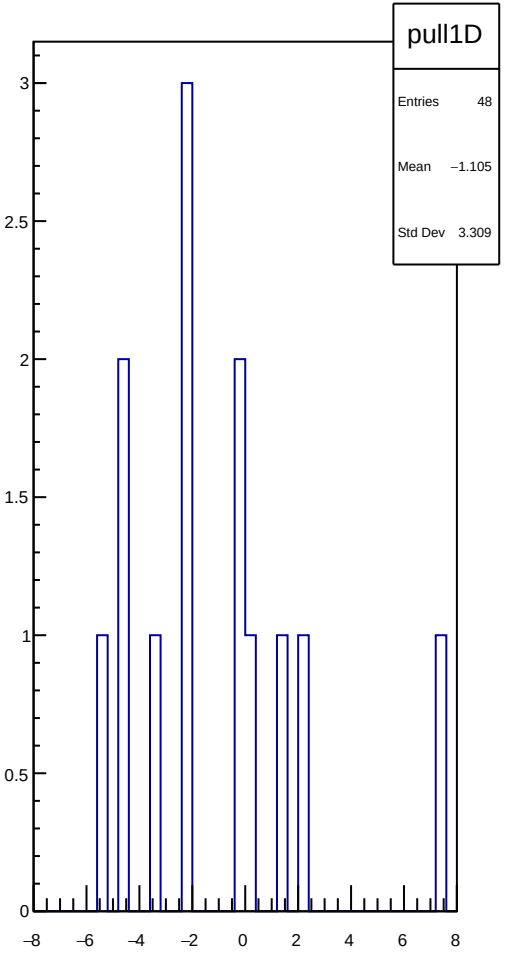
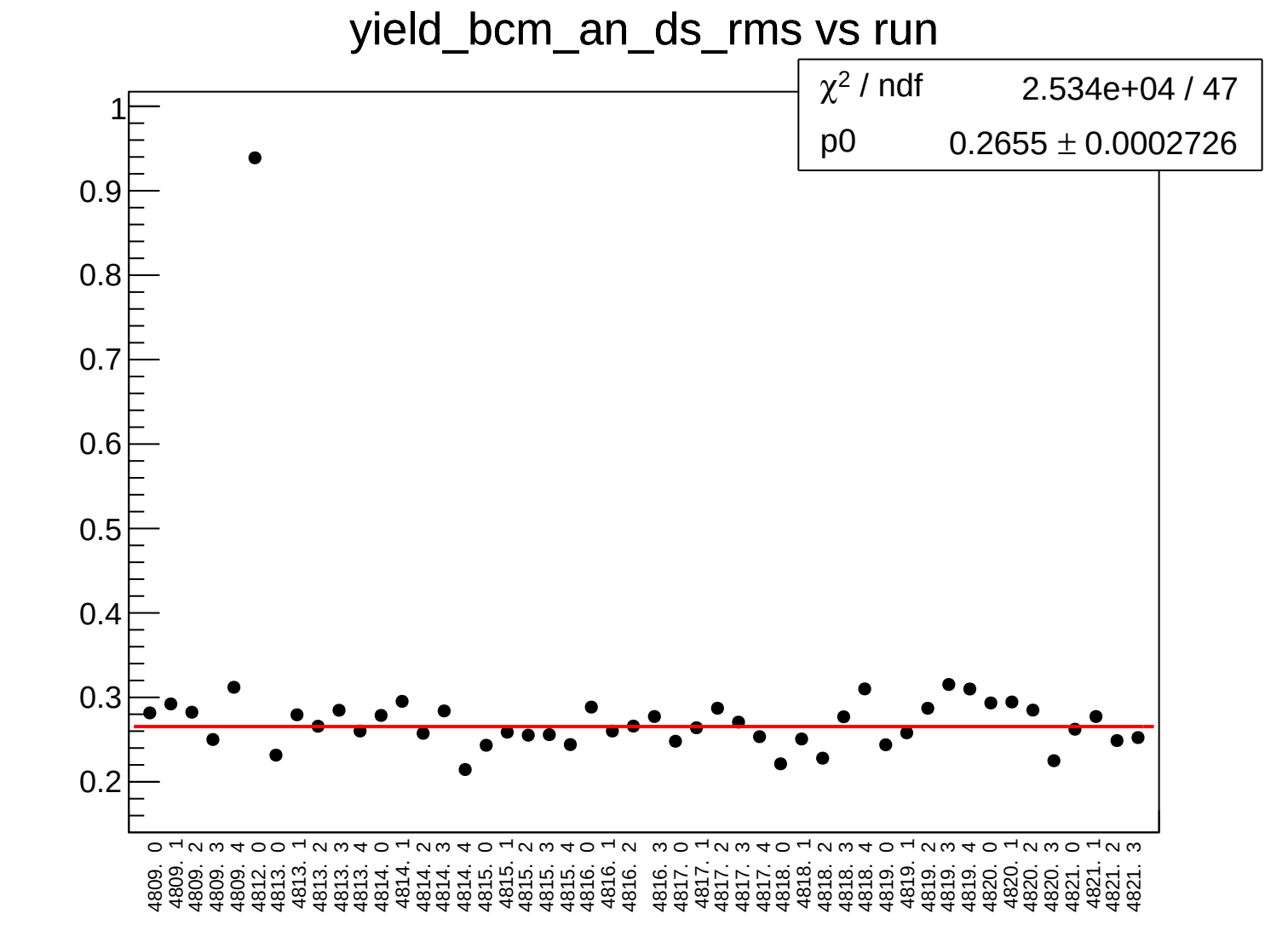
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3


yield_bcm_an_ds_mean vs run
χ² / ndf 3.47e+04 / 47
p0 69.89 ± 0.0003856
70.05
70
69.95
69.9
69.85
69.8
69.75
69.7
pull
Entries 48
Mean −94.63
Std Dev 97.73
60
40
20
0
−20
−40
−60


pull1D
Entries 48
Mean −1.105
Std Dev 3.309
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


yield_bcm_an_ds_rms vs run
χ² / ndf 2.534e+04 / 47
p0 0.2655 ± 0.0002726
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
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4819. 4
4820. 0
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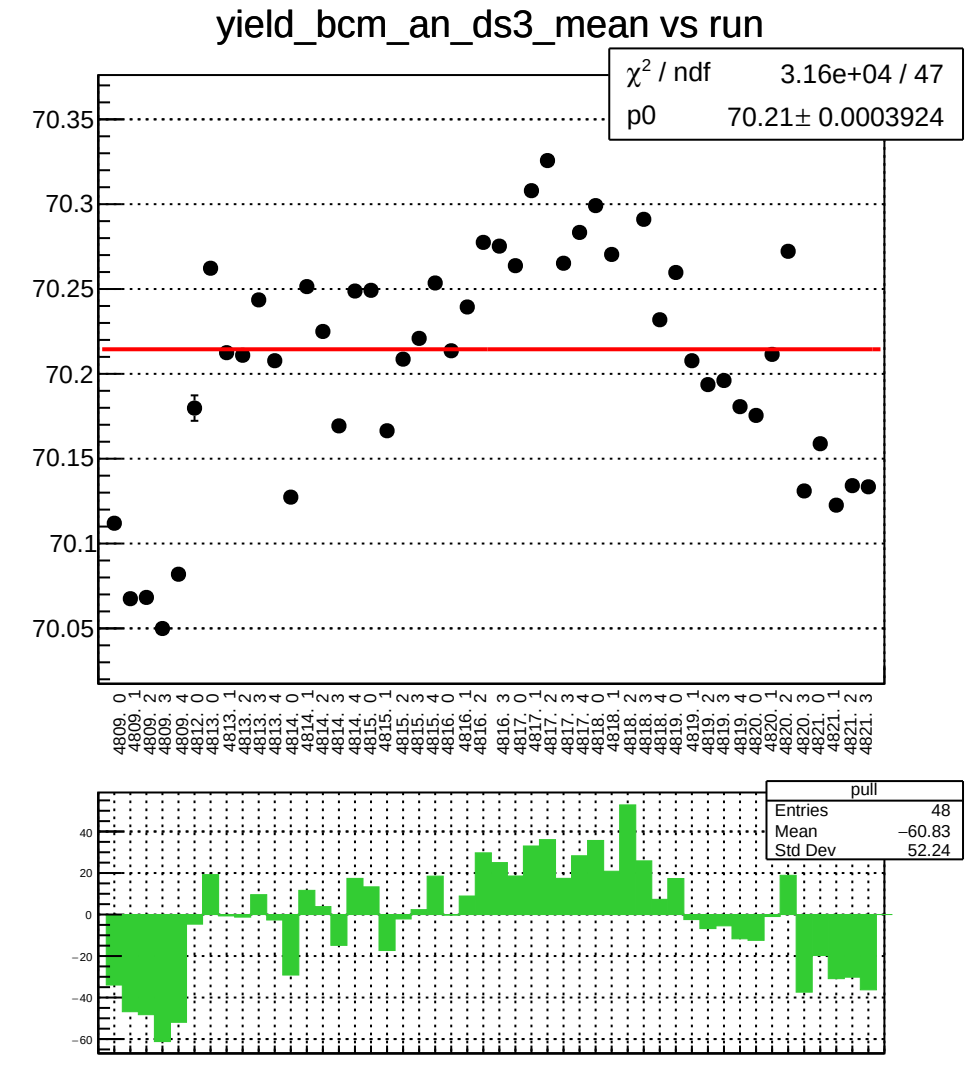
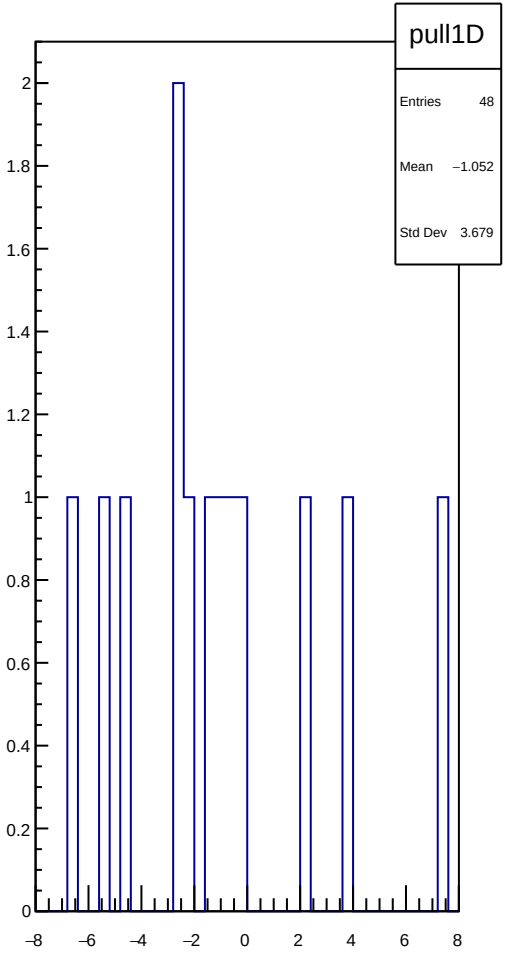
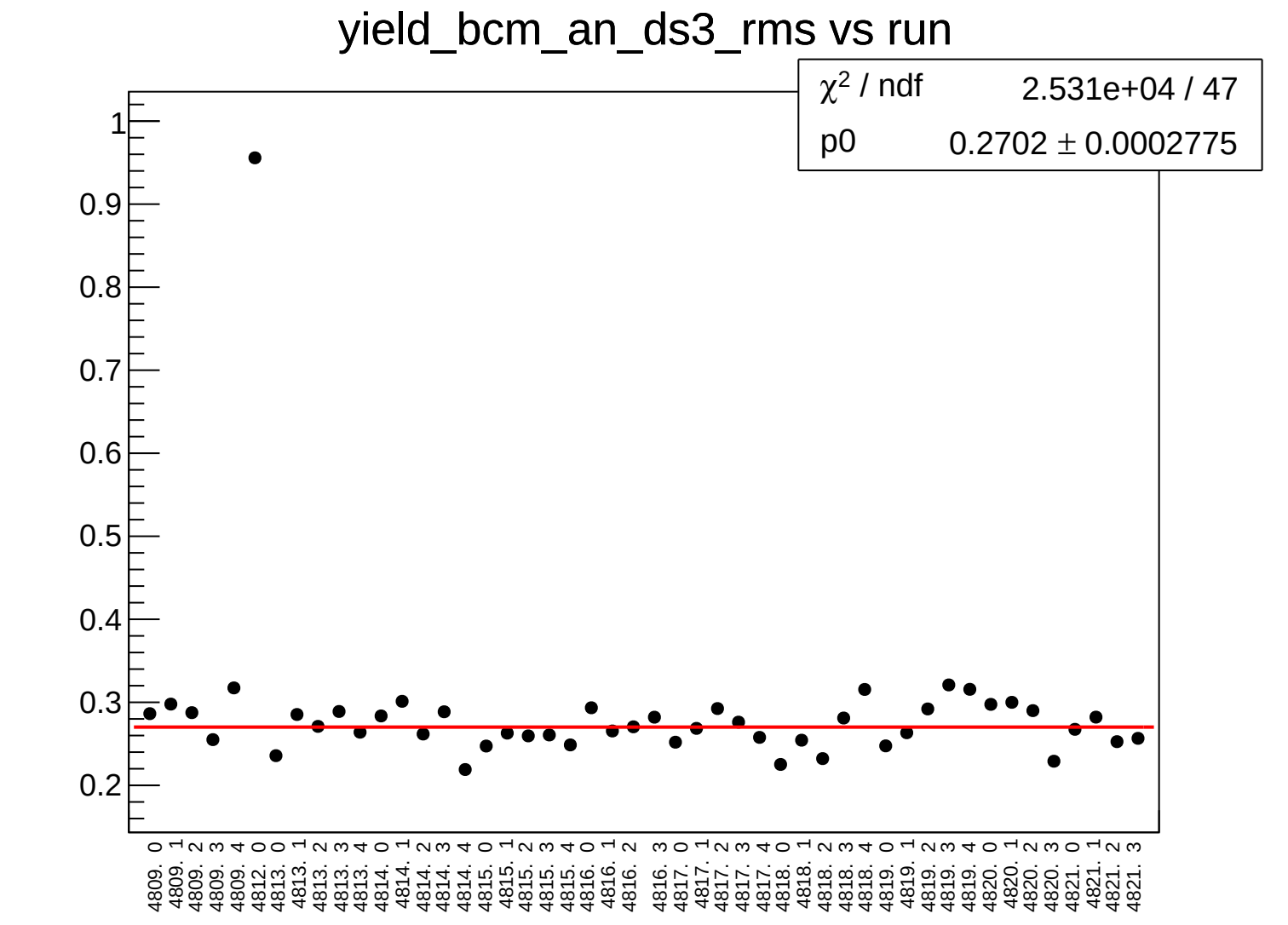
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3


yield_bcm_an_ds3_mean vs run
χ² / ndf 3.16e+04 / 47
p0 70.21± 0.0003924
70.35
70.3
70.25
70.2
70.15
70.1
70.05
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean −60.83
Std Dev 52.24
40
20
0
−20
−40
−60


pull1D
Entries 48
Mean −1.052
Std Dev 3.679
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bcm_an_ds3_rms vs run
χ² / ndf 2.531e+04 / 47
p0 0.2702 ± 0.0002775
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
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4819. 2
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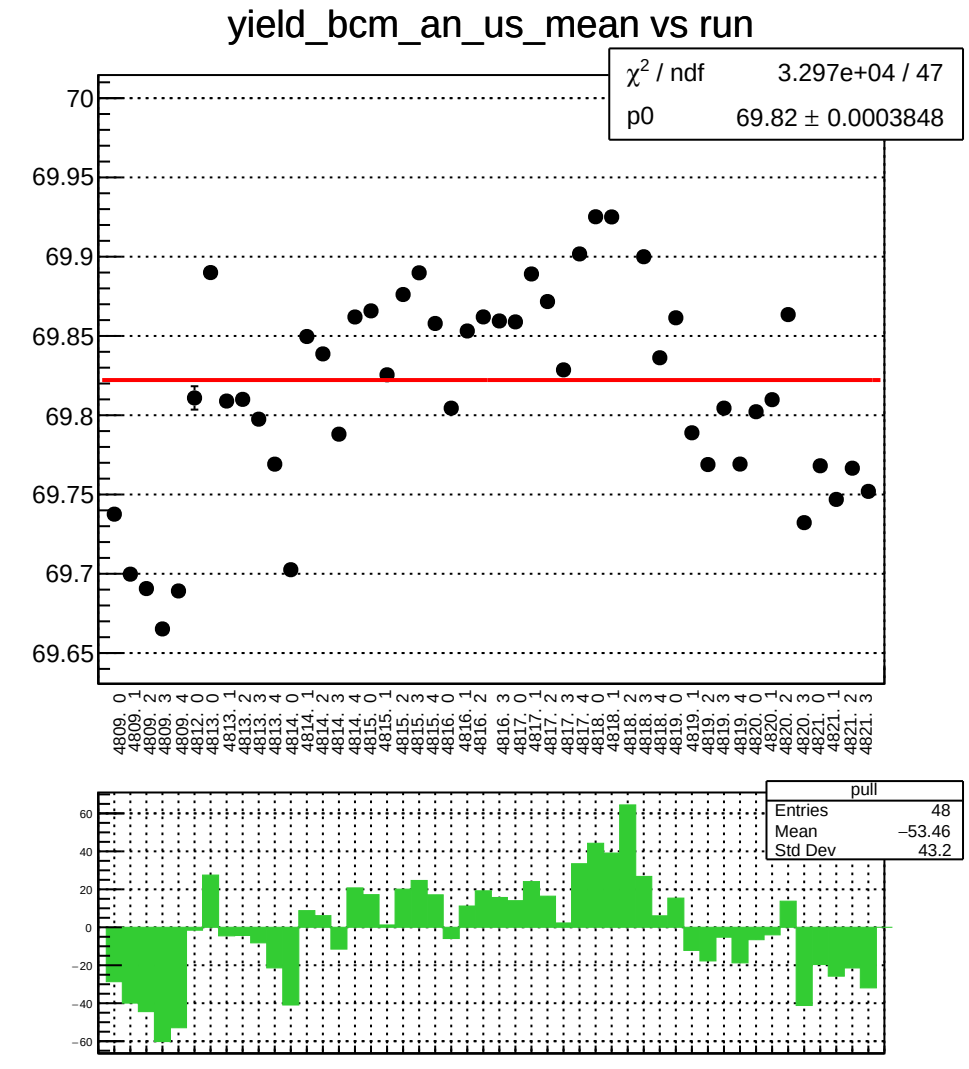
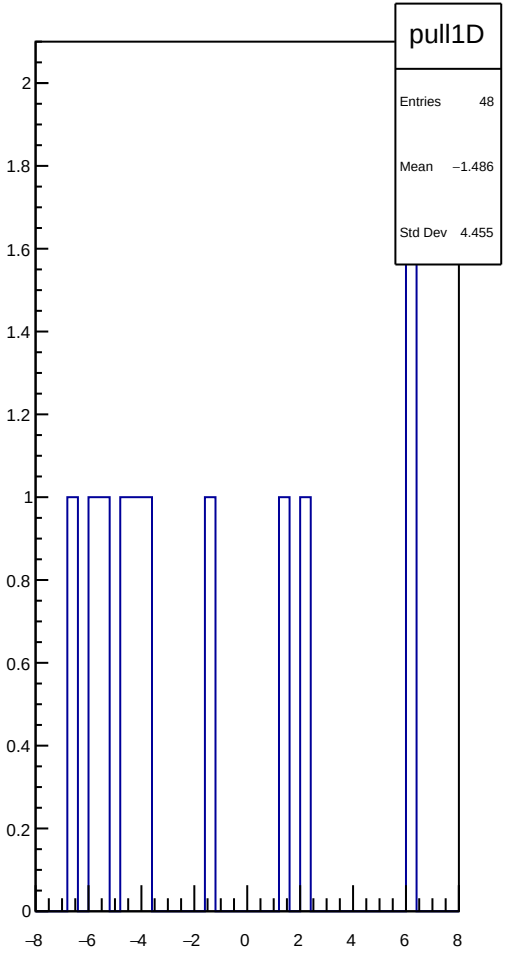
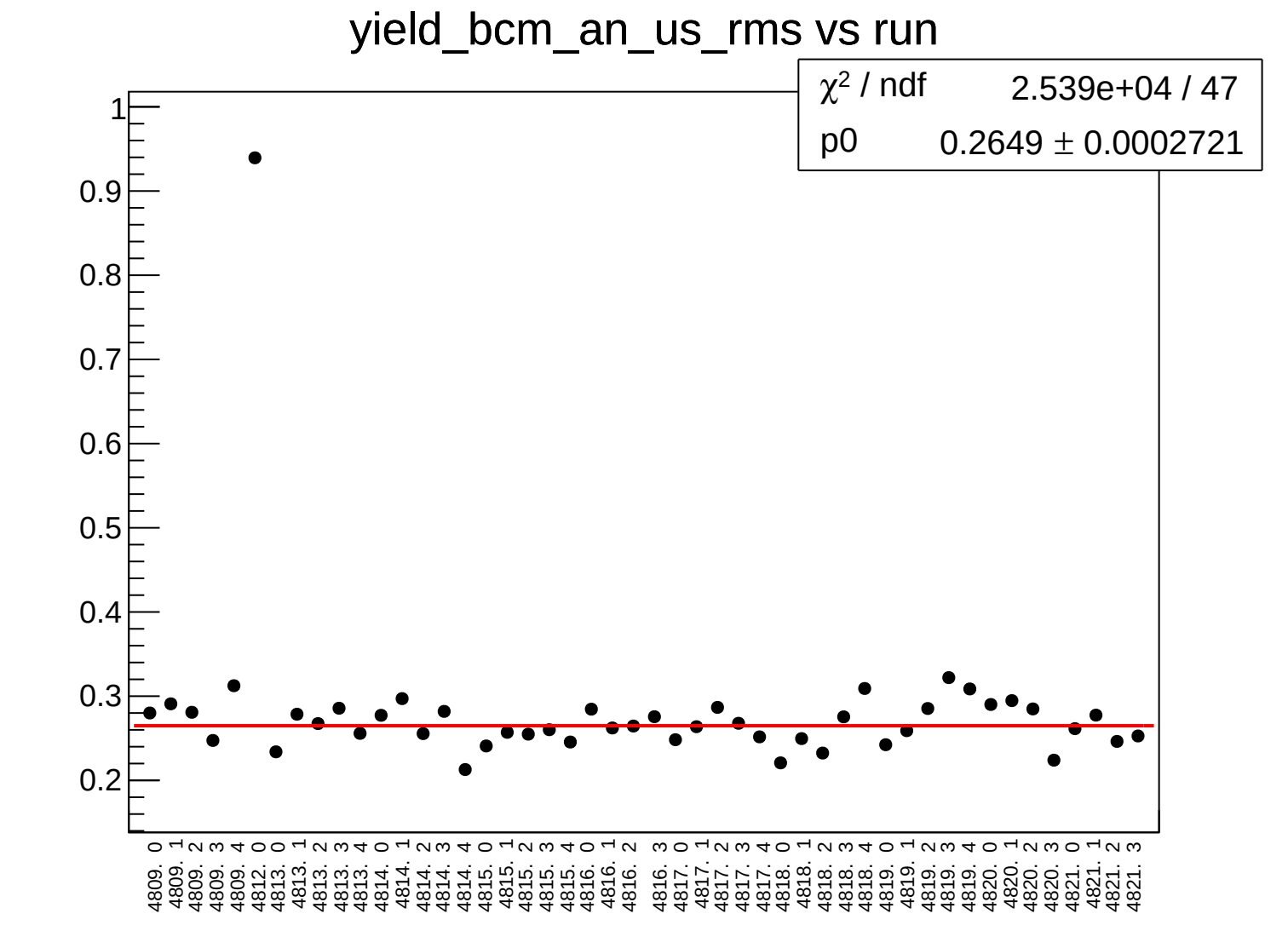
4821. 2
4821. 3


yield_bcm_an_us_mean vs run
χ² / ndf 3.297e+04 / 47
p0 69.82 ± 0.0003848
70
69.95
69.9
69.85
69.8
69.75
69.7
69.65
pull
Entries 48
Mean −53.46
Std Dev 43.2
60
40
20
0
−20
−40
−60


pull1D
Entries 48
Mean −1.486
Std Dev 4.455
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bcm_an_us_rms vs run
χ² / ndf 2.539e+04 / 47
p0 0.2649 ± 0.0002721
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
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4813. 1
4813. 2
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4813. 4
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4818. 4
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4819. 1
4819. 2
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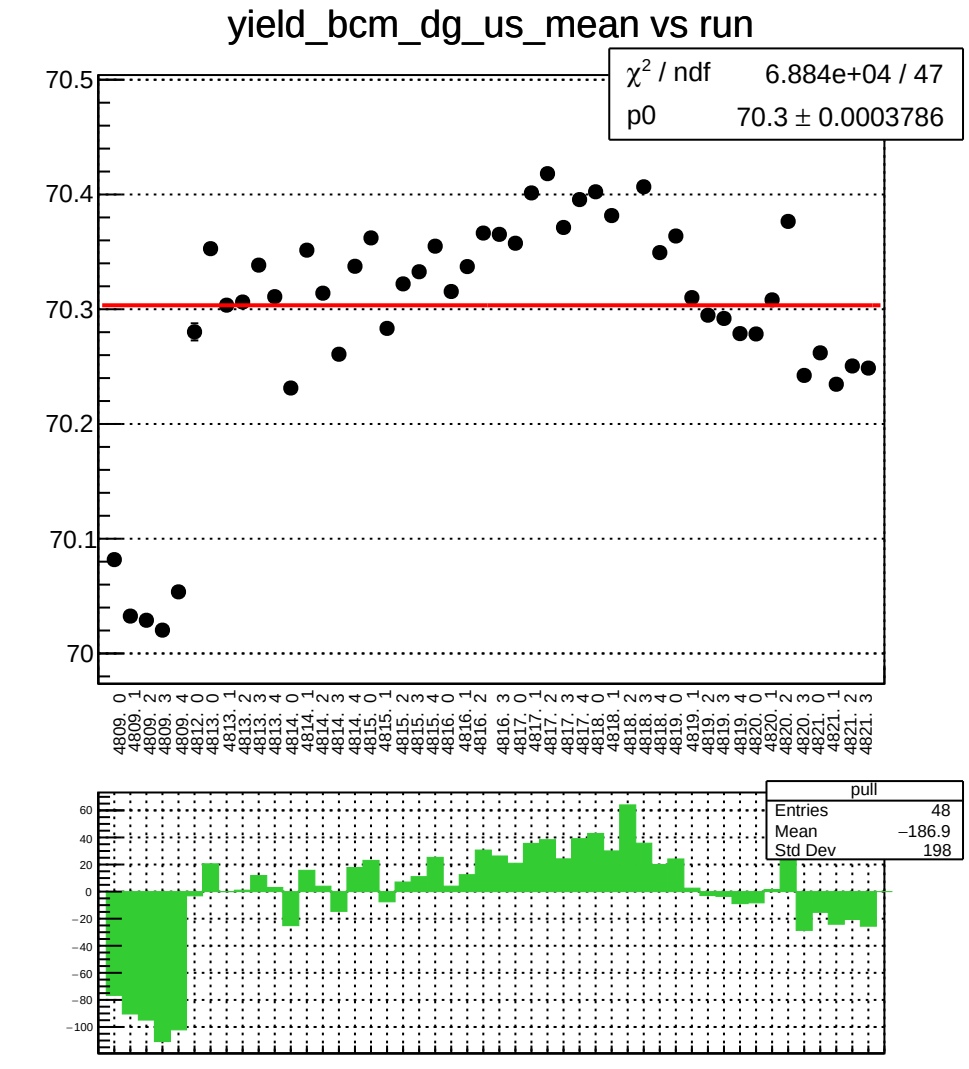
yield_bcm_dg_us_mean vs run
χ² / ndf 6.884e+04 / 47
p0 70.3 ± 0.0003786
70.5
70.4
70.3
70.2
70.1
70
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
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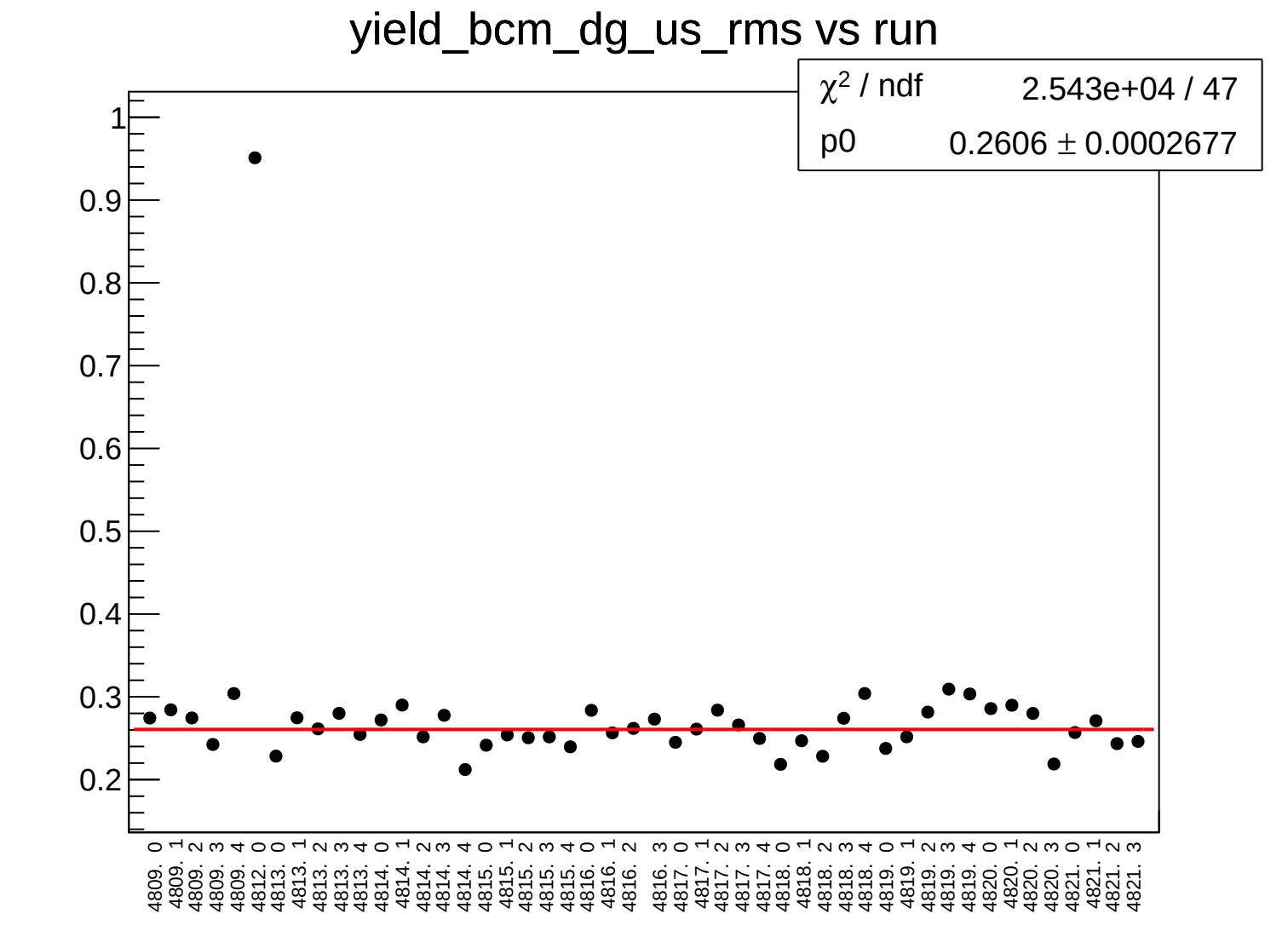
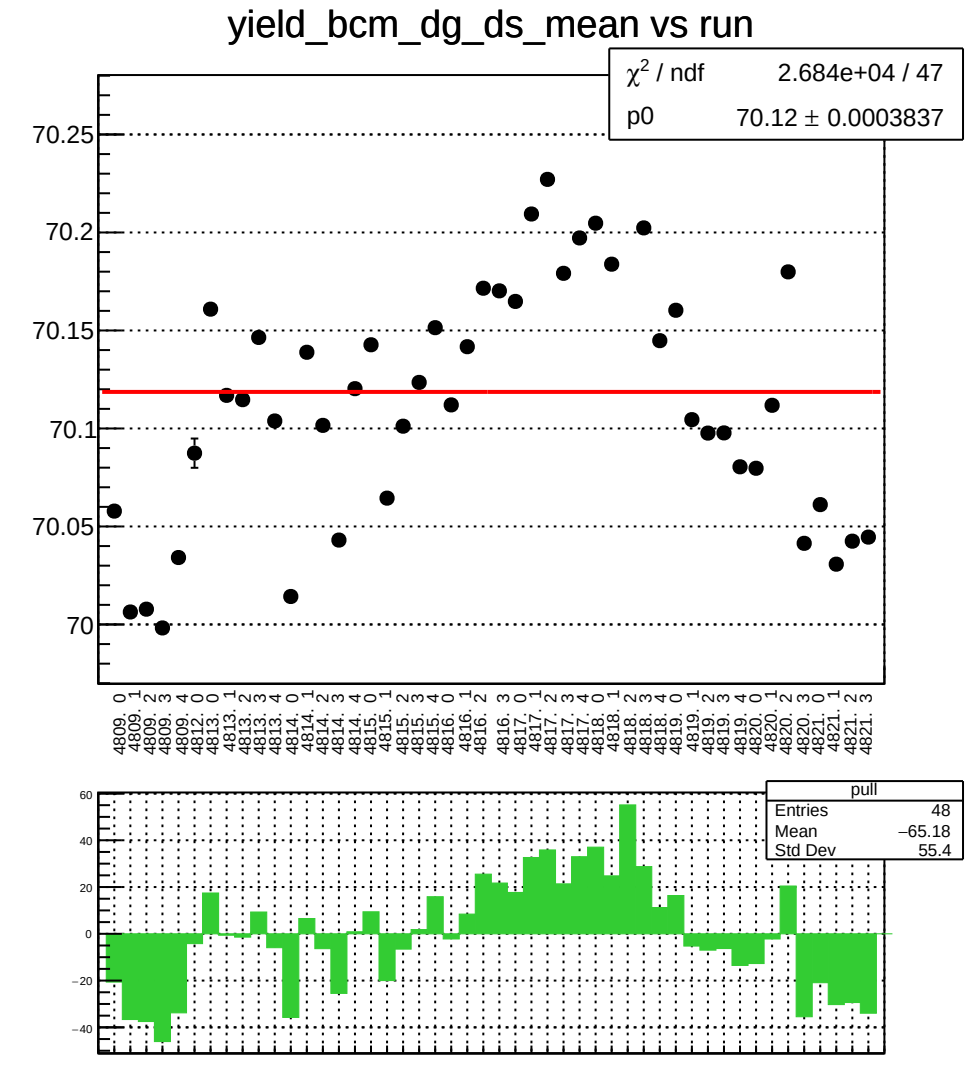
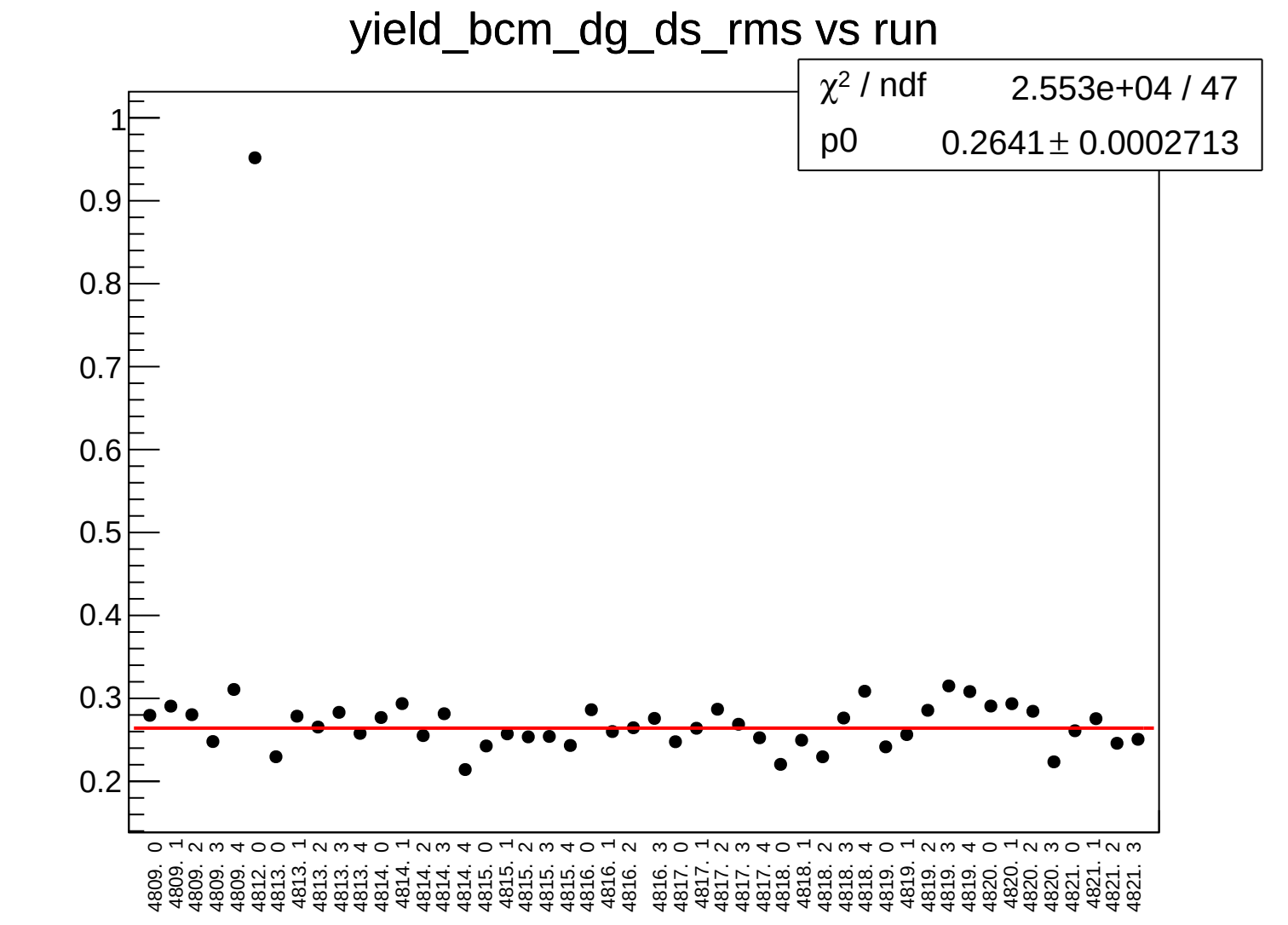
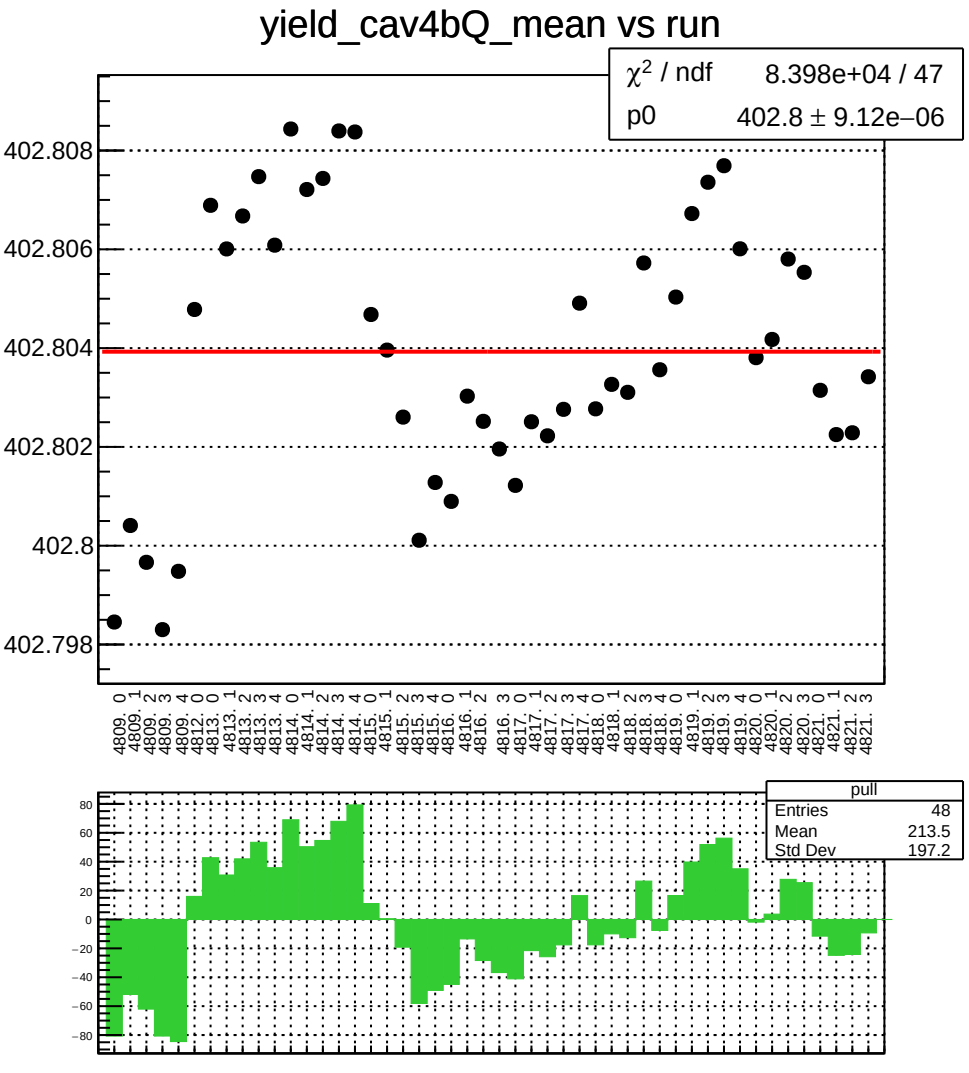
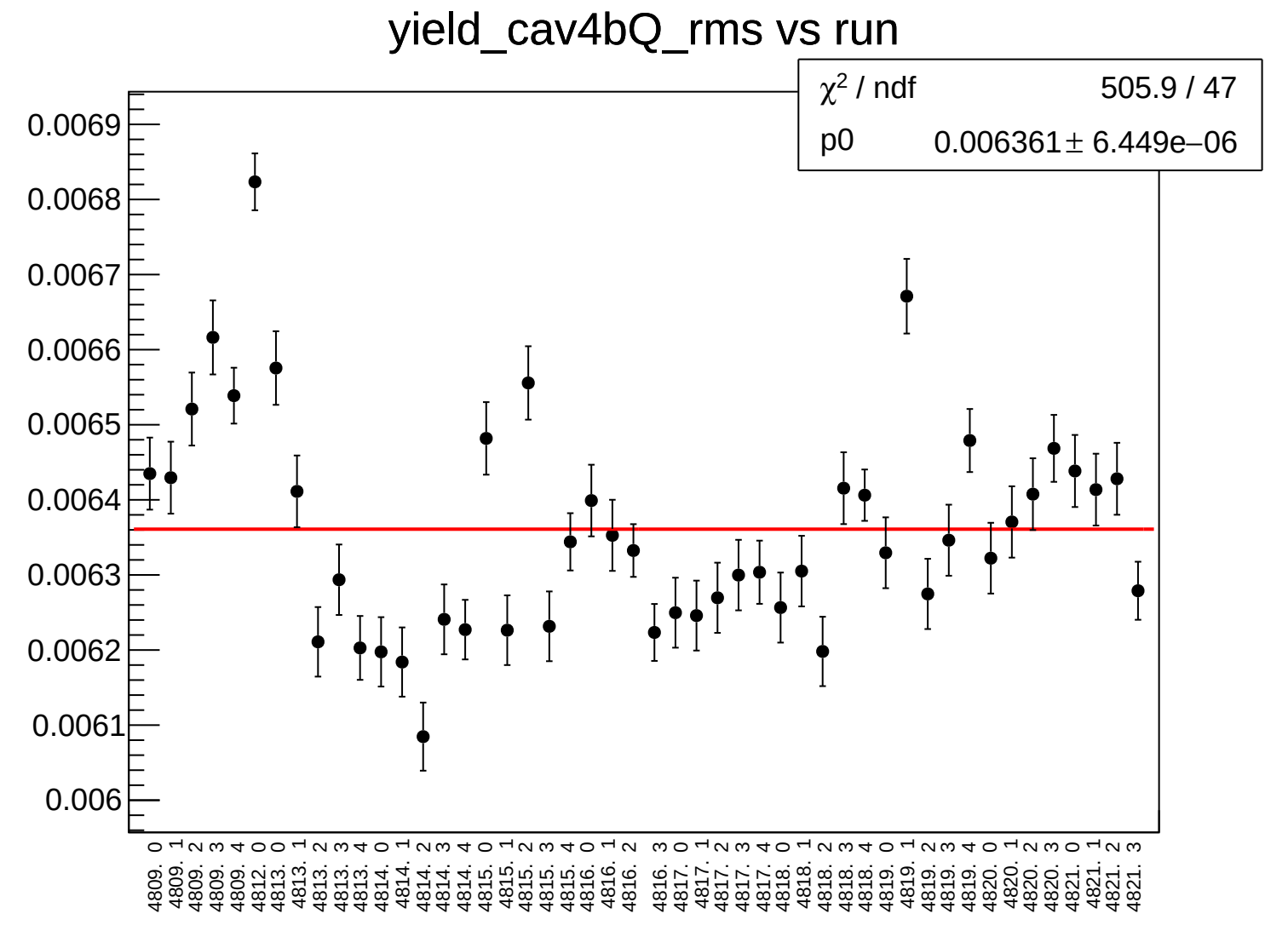
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean −186.9
Std Dev 198
60
40
20
0
−20
−40
−60
−80
−100
pull1D
Entries 48
Mean 0.5188
Std Dev 3.925
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

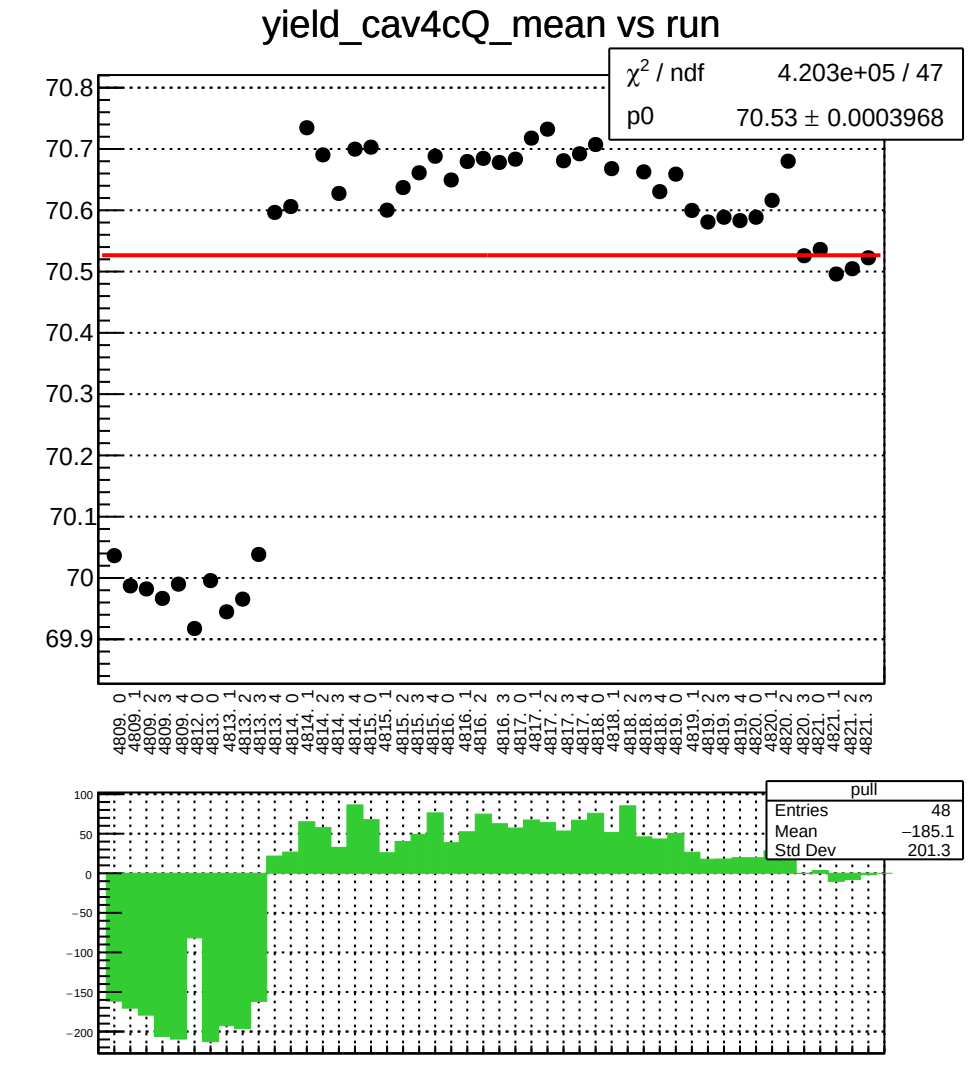

yield_bcm_dg_us_rms vs run
χ² / ndf 2.543e+04 / 47
p0 0.2606 ± 0.0002677
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

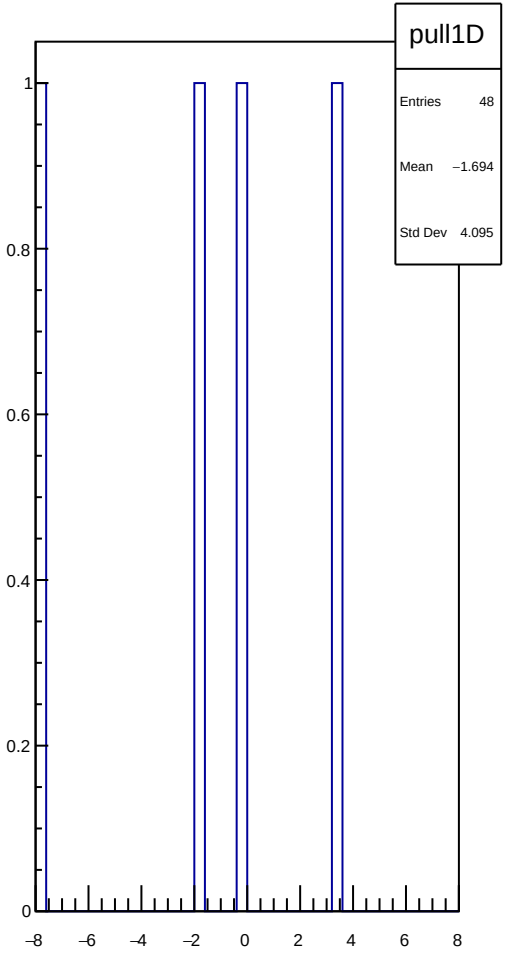

yield_bcm_dg_ds_mean vs run
χ² / ndf 2.684e+04 / 47
p0 70.12 ± 0.0003837
70.25
70.2
70.15
70.1
70.05
70
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean −65.18
Std Dev 55.4
60
40
20
0
−20
−40
pull1D
Entries 48
Mean −2.767
Std Dev 3.809
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

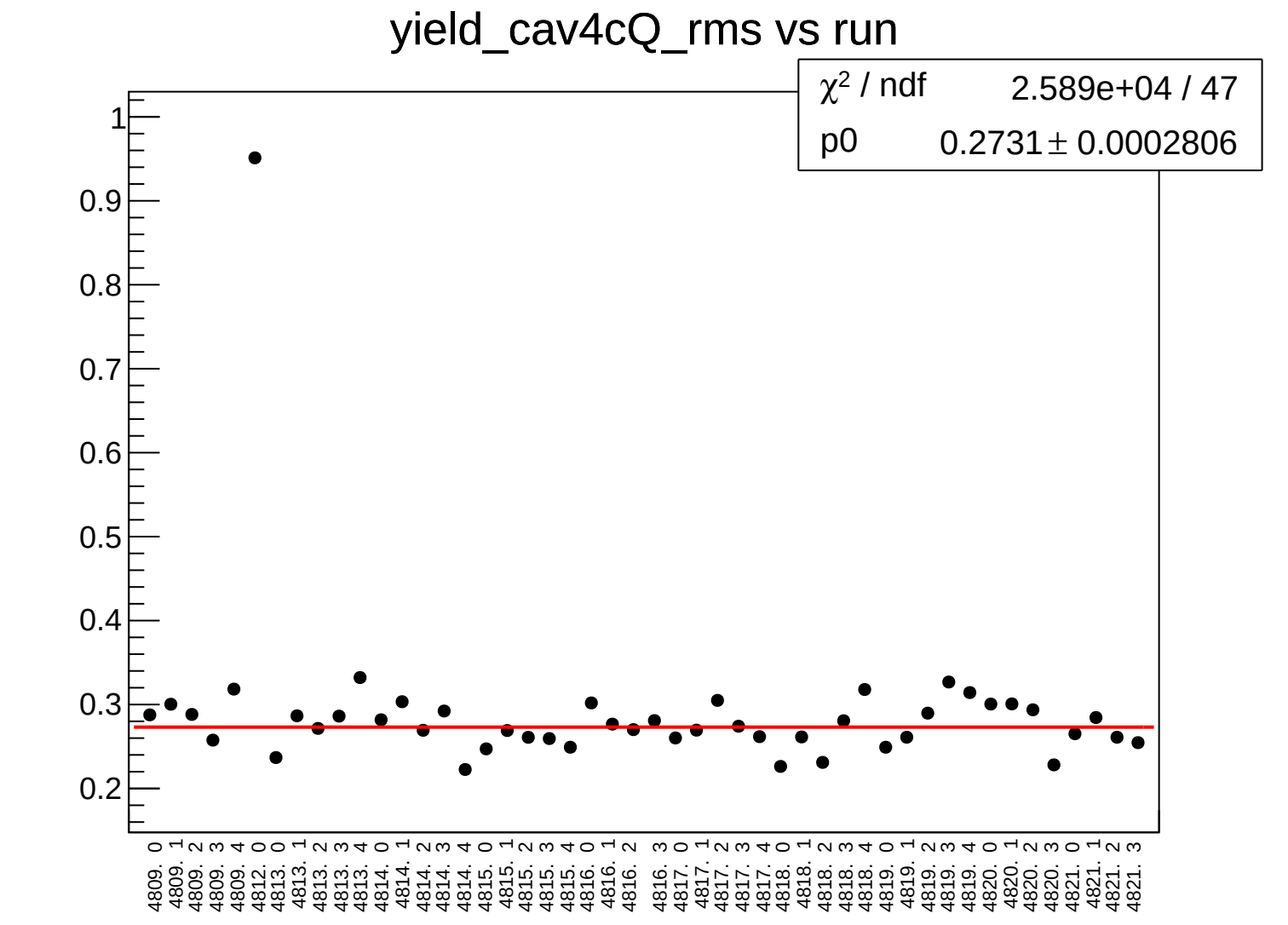

yield_bcm_dg_ds_rms vs run
χ² / ndf 2.553e+04 / 47
p0 0.2641 ± 0.0002713
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

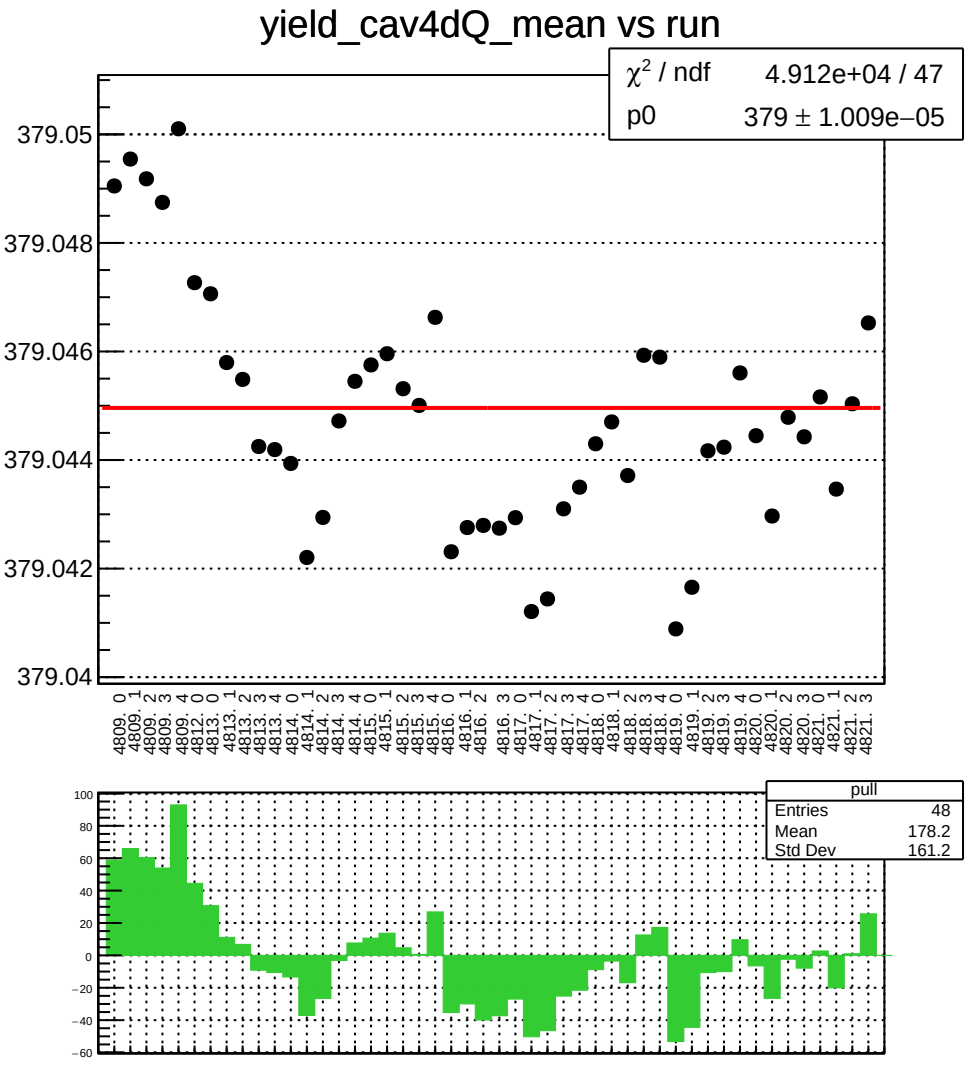

yield_cav4bQ_mean vs run
χ² / ndf 8.398e+04 / 47
p0 402.8 ± 9.12e−06
402.808
402.806
402.804
402.802
402.8
402.798
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 213.5
Std Dev 197.2
80
60
40
20
0
−20
−40
−60
−80
pull1D
Entries 48
Mean −1.299
Std Dev 4.111
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

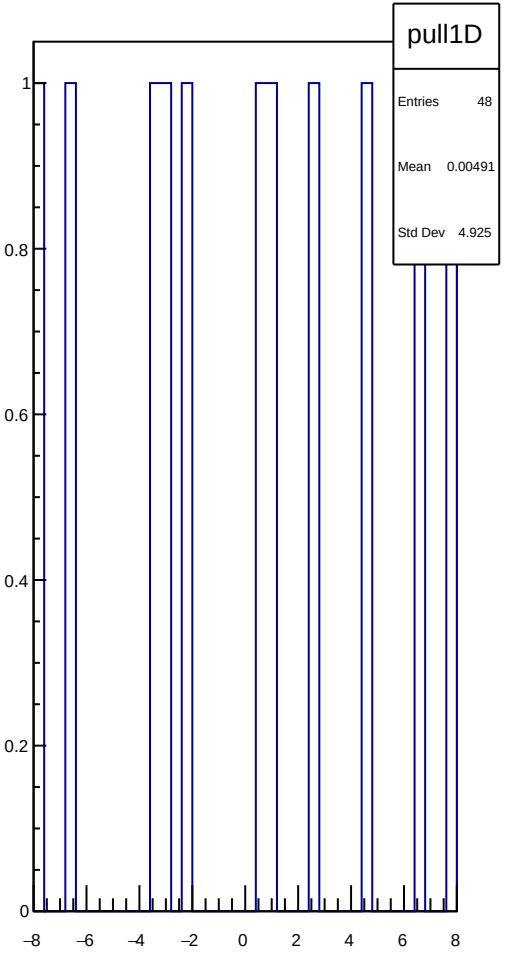

yield_cav4bQ_rms vs run
χ² / ndf 505.9 / 47
p0 0.006361 ± 6.449e−06
0.0069
0.0068
0.0067
0.0066
0.0065
0.0064
0.0063
0.0062
0.0061
0.006
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

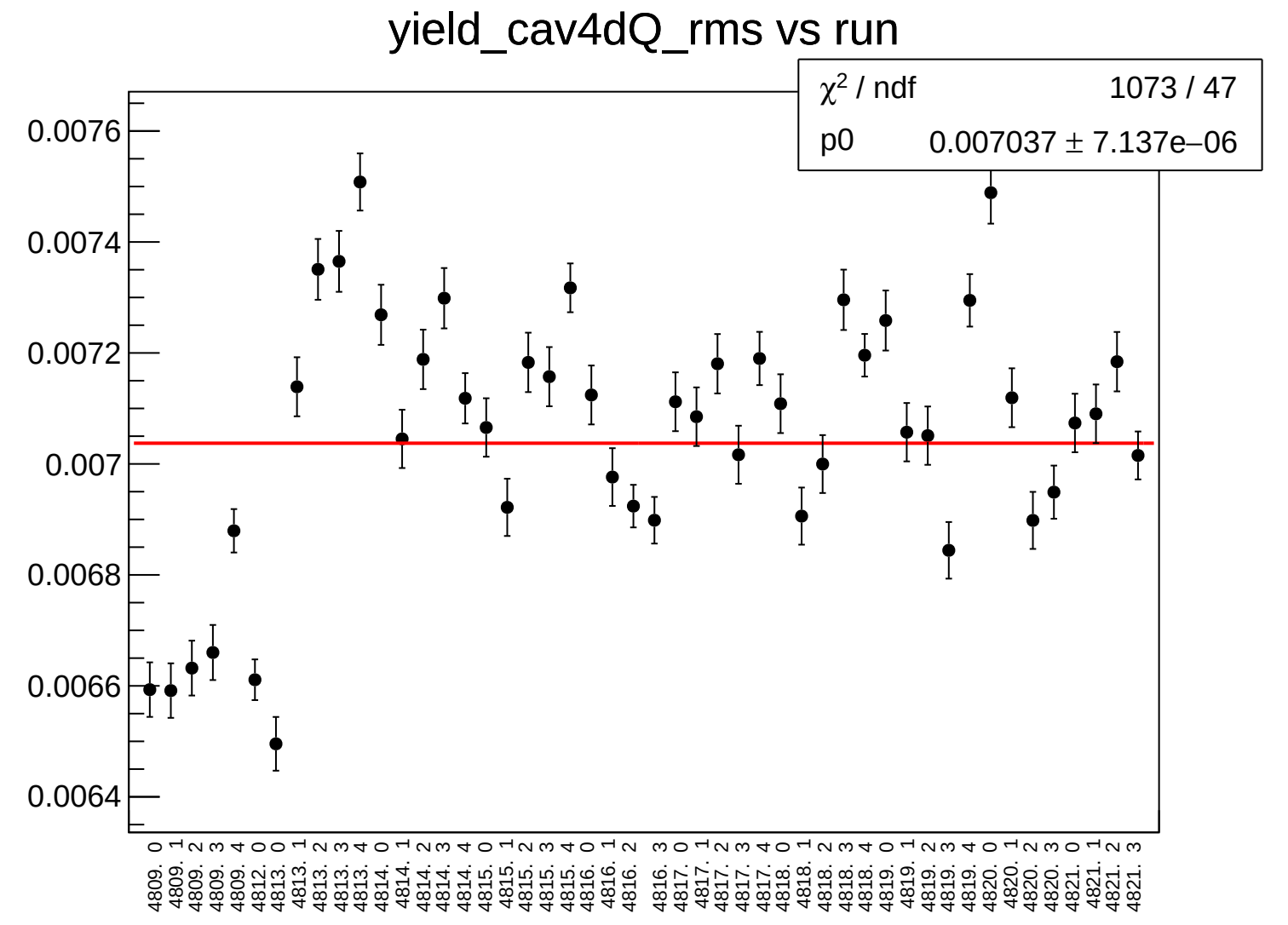

yield_cav4cQ_mean vs run
χ² / ndf 4.203e+05 / 47
p0 70.53 ± 0.0003968
70.8
70.7
70.6
70.5
70.4
70.3
70.2
70.1
70
69.9
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean −185.1
Std Dev 201.3
100
50
0
−50
−100
−150
−200

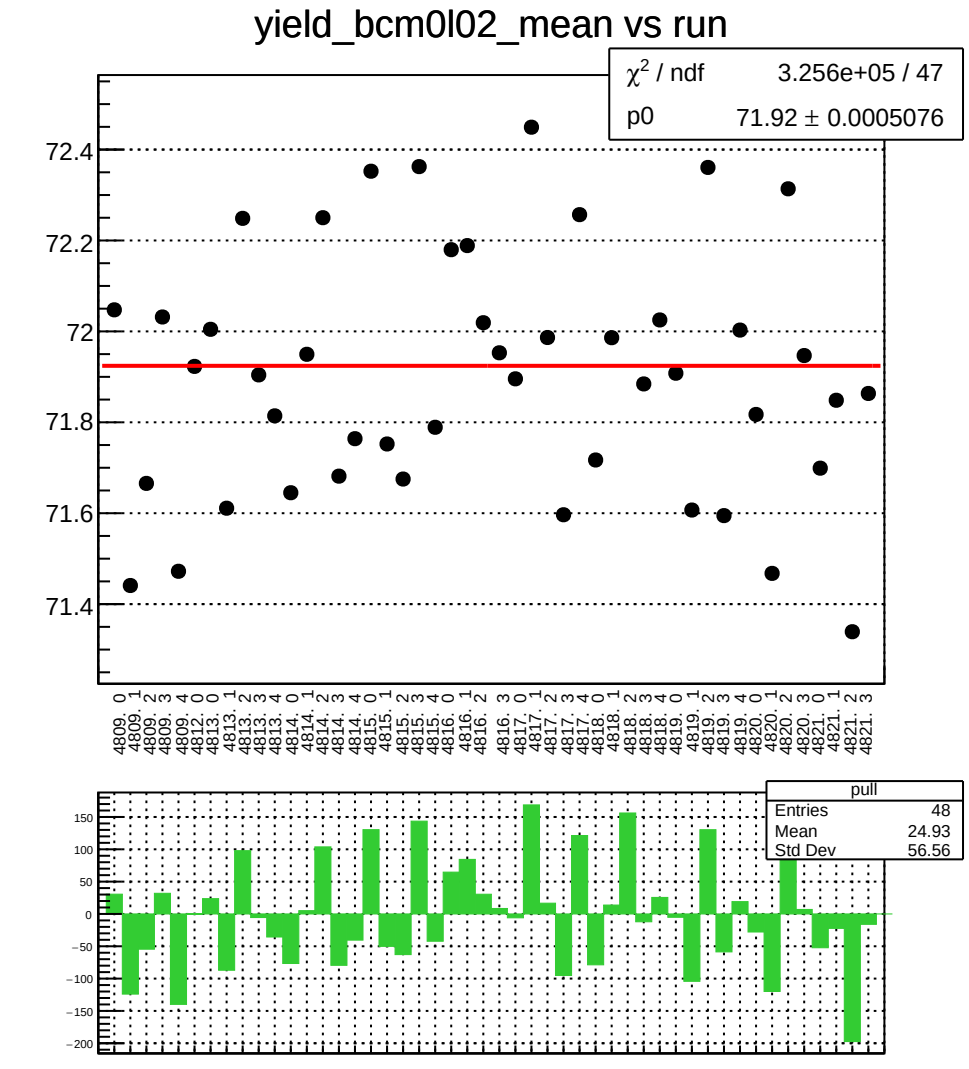

pull1D
Entries 48
Mean −1.694
Std Dev 4.095
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

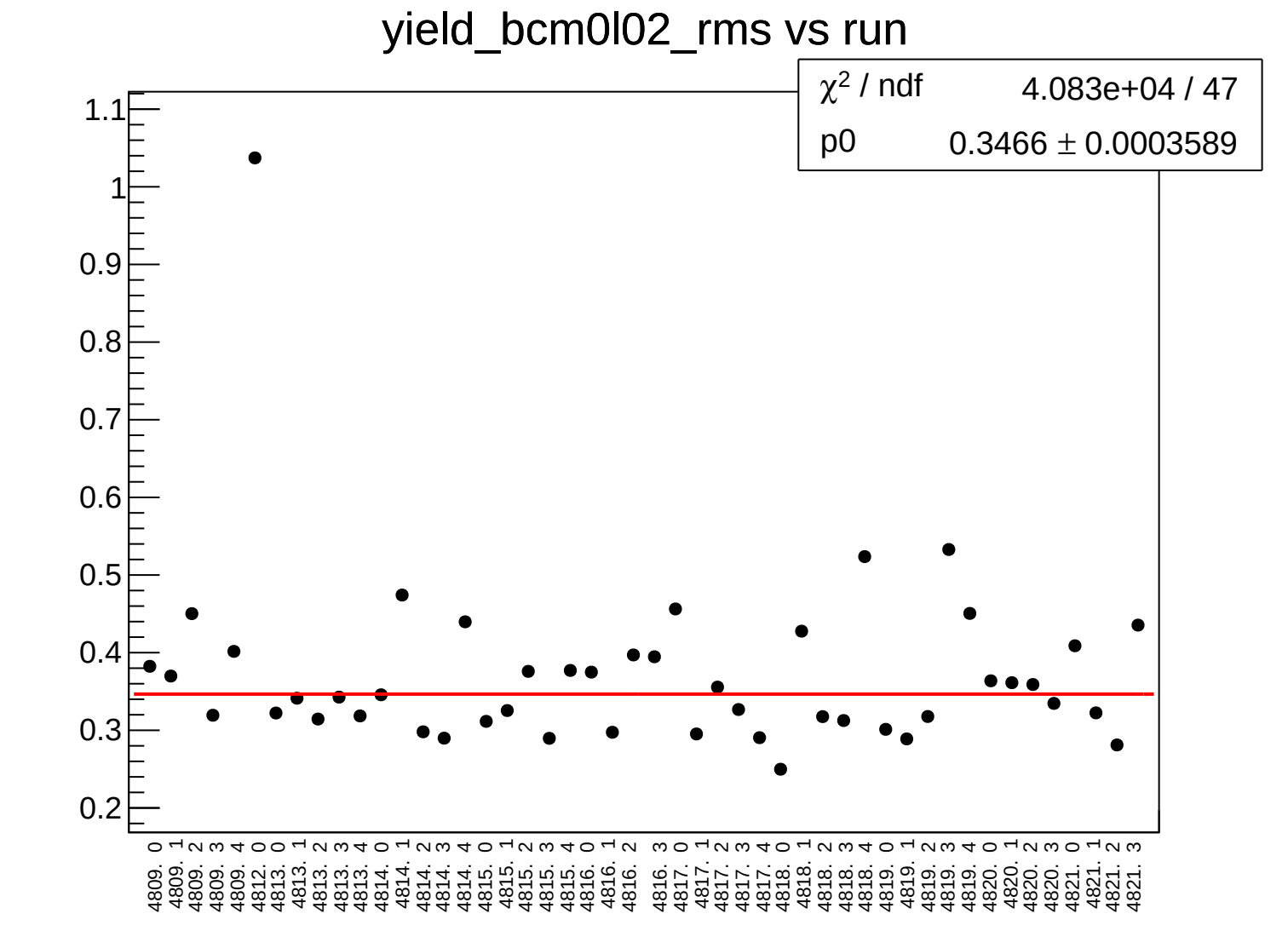

yield_cav4cQ_rms vs run
χ² / ndf 2.589e+04 / 47
p0 0.2731 ± 0.0002806
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

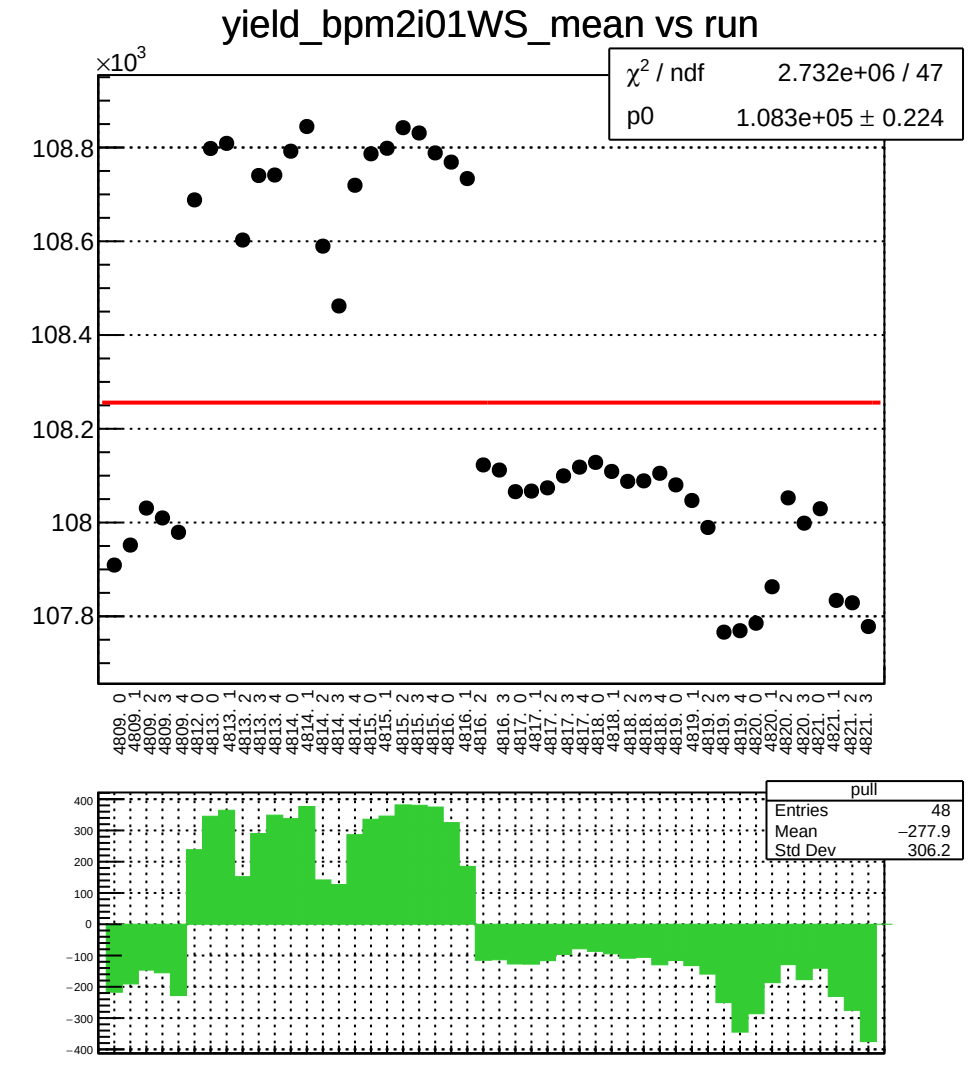

yield_cav4dQ_mean vs run
χ² / ndf 4.912e+04 / 47
p0 379 ± 1.009e−05
379.05
379.048
379.046
379.044
379.042
379.04
pull
Entries 48
Mean 178.2
Std Dev 161.2
100
80
60
40
20
0
−20
−40
−60

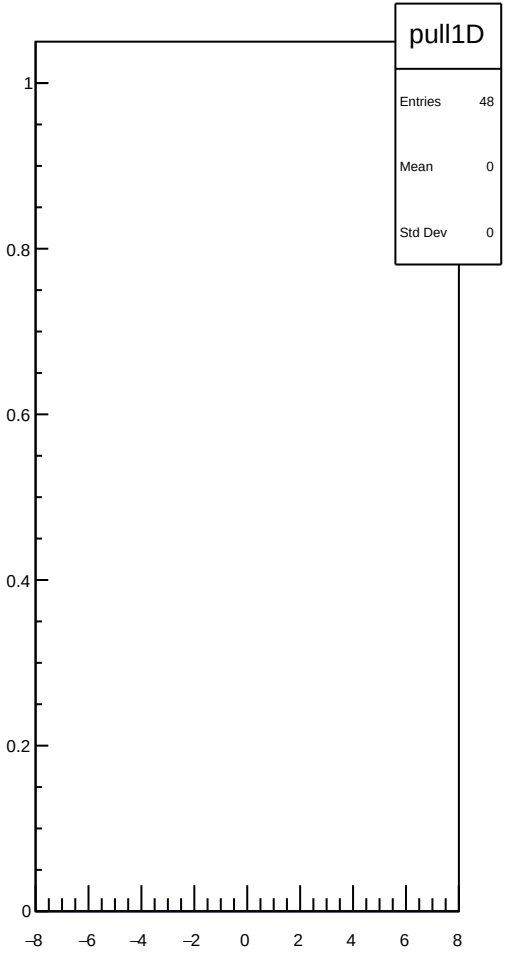

pull1D
Entries 48
Mean 0.00491
Std Dev 4.925
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

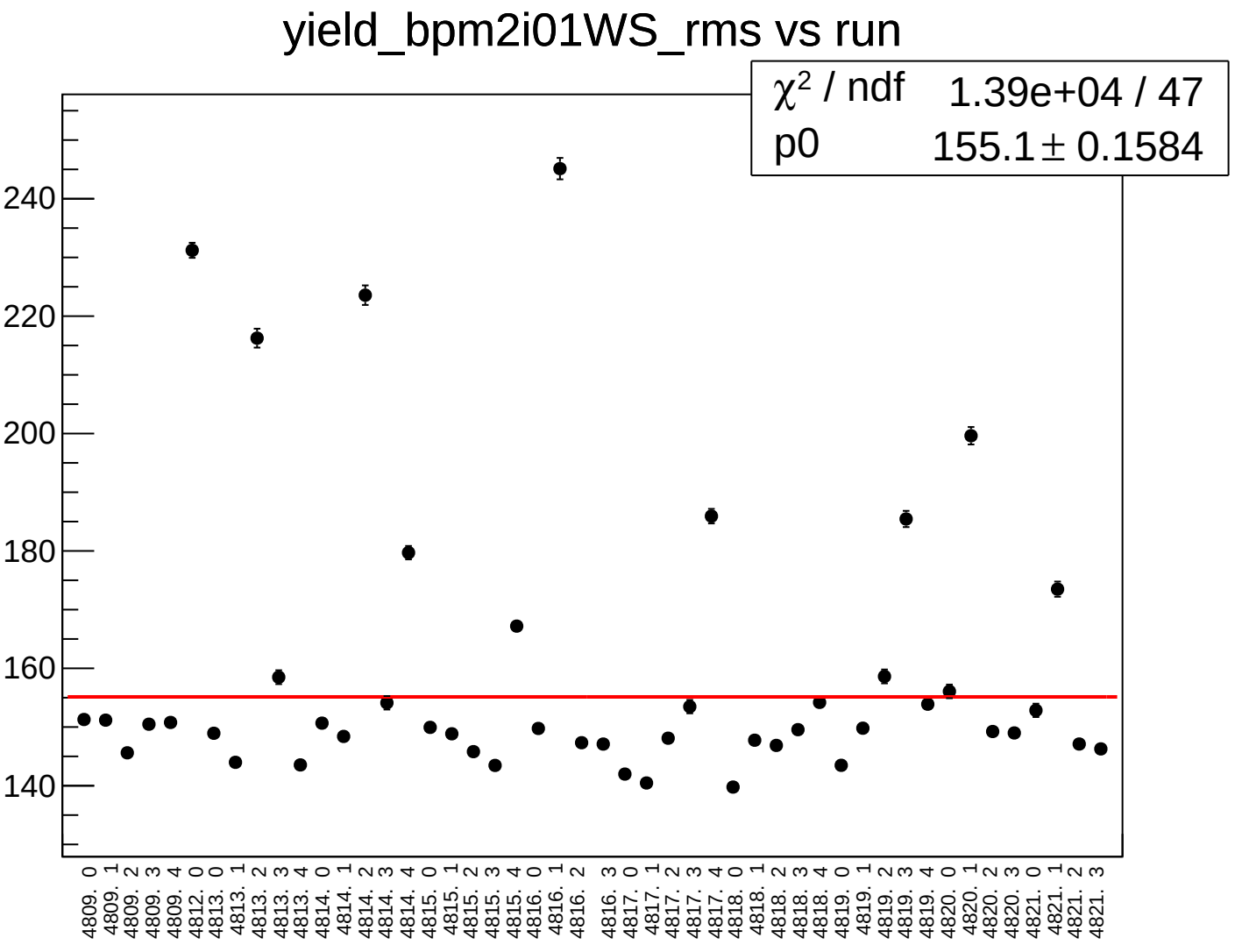

yield_cav4dQ_rms vs run
χ² / ndf 1073 / 47
p0 0.007037 ± 7.137e−06
0.0076
0.0074
0.0072
0.007
0.0068
0.0066
0.0064
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3


yield_bcm0l02_mean vs run
χ² / ndf 3.256e+05 / 47
p0 71.92 ± 0.0005076
72.4
72.2
72
71.8
71.6
71.4
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 24.93
Std Dev 56.56
150
100
50
0
−50
−100
−150
−200
pull1D
Entries 48
Mean −0.7971
Std Dev 5.204
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bcm0l02_rms vs run
χ² / ndf 4.083e+04 / 47
p0 0.3466 ± 0.0003589
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3


yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 2.732e+06 / 47
p0 1.083e+05 ± 0.224
108.8
108.6
108.4
108.2
108
107.8
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean −277.9
Std Dev 306.2
400
300
200
100
0
−100
−200
−300
−400


pull1D
Entries 48
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm2i01WS_rms vs run
χ² / ndf 1.39e+04 / 47
p0 155.1 ± 0.1584
240
220
200
180
160
140
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
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4818. 4
4819. 0
4819. 1
4819. 2
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4820. 0
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4821. 0
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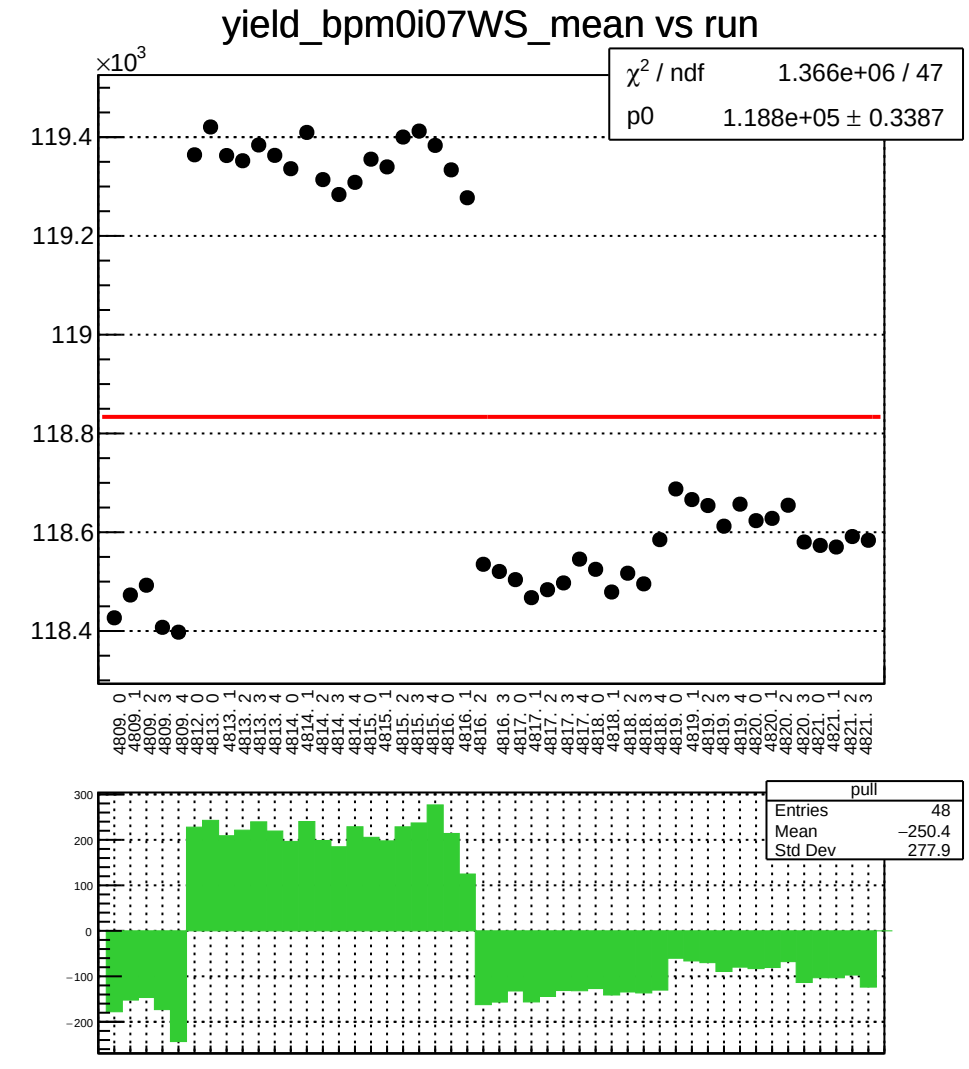
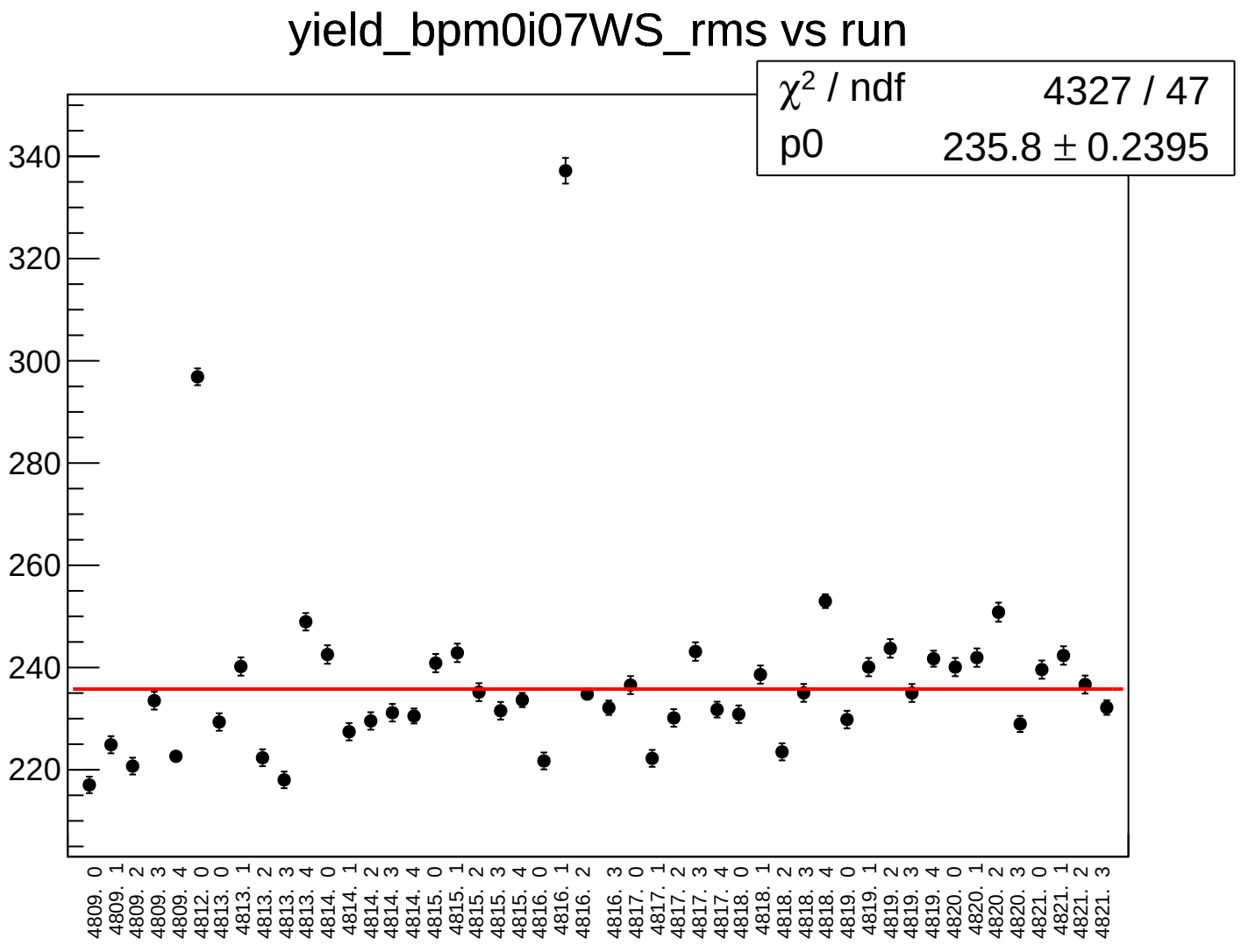
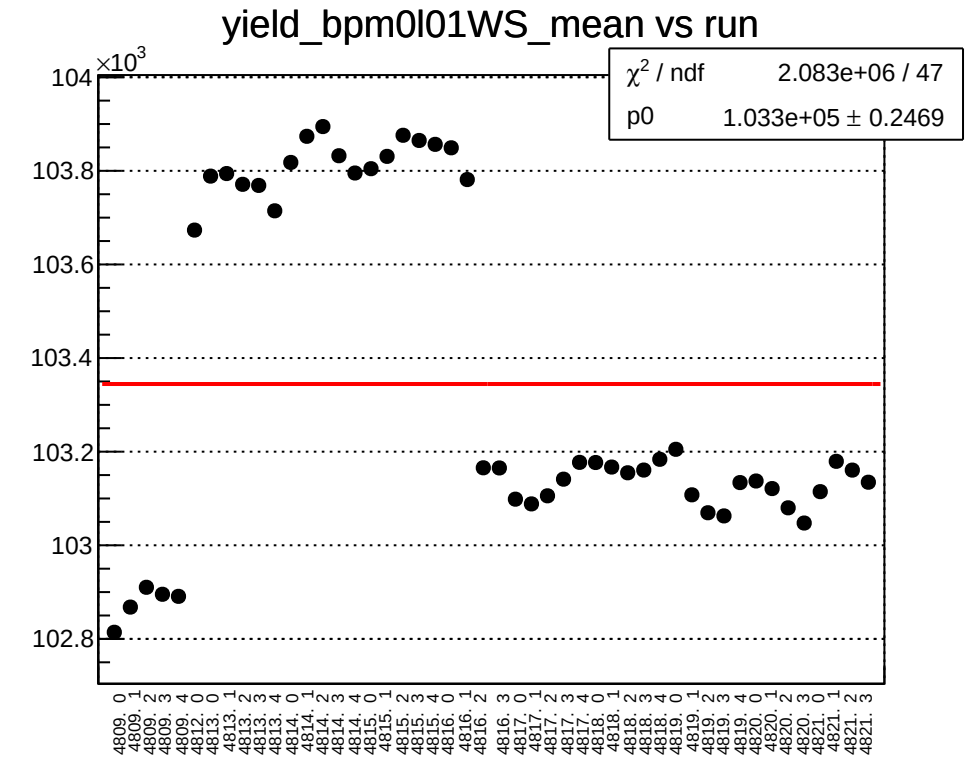
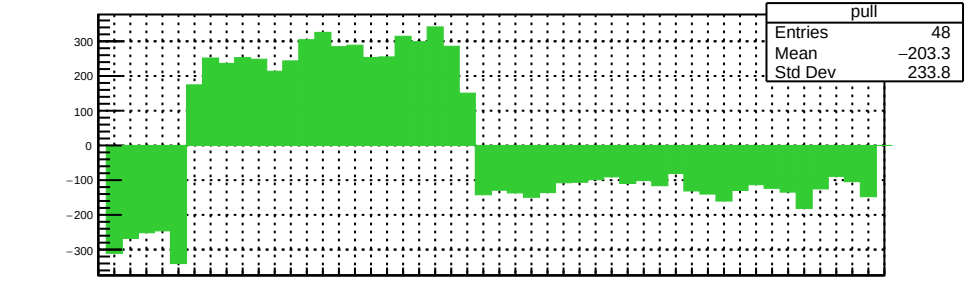
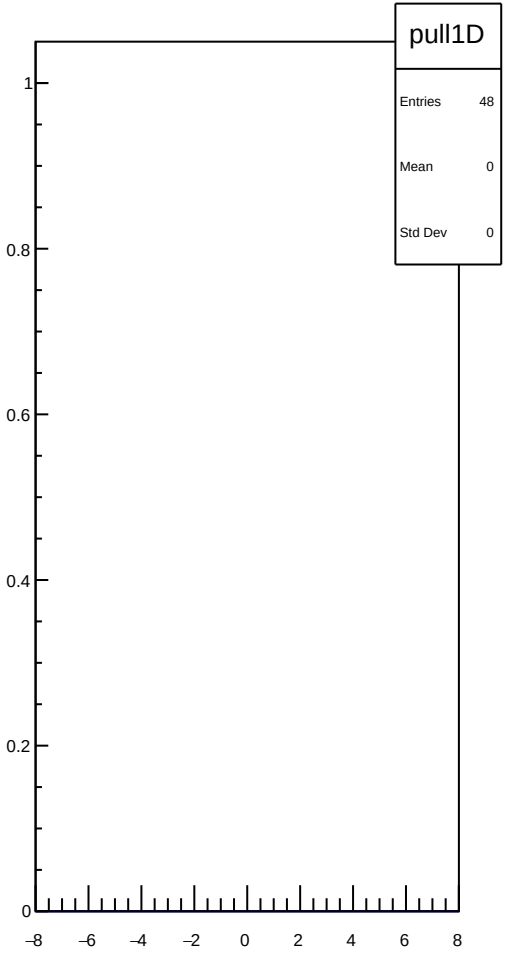
4821. 3

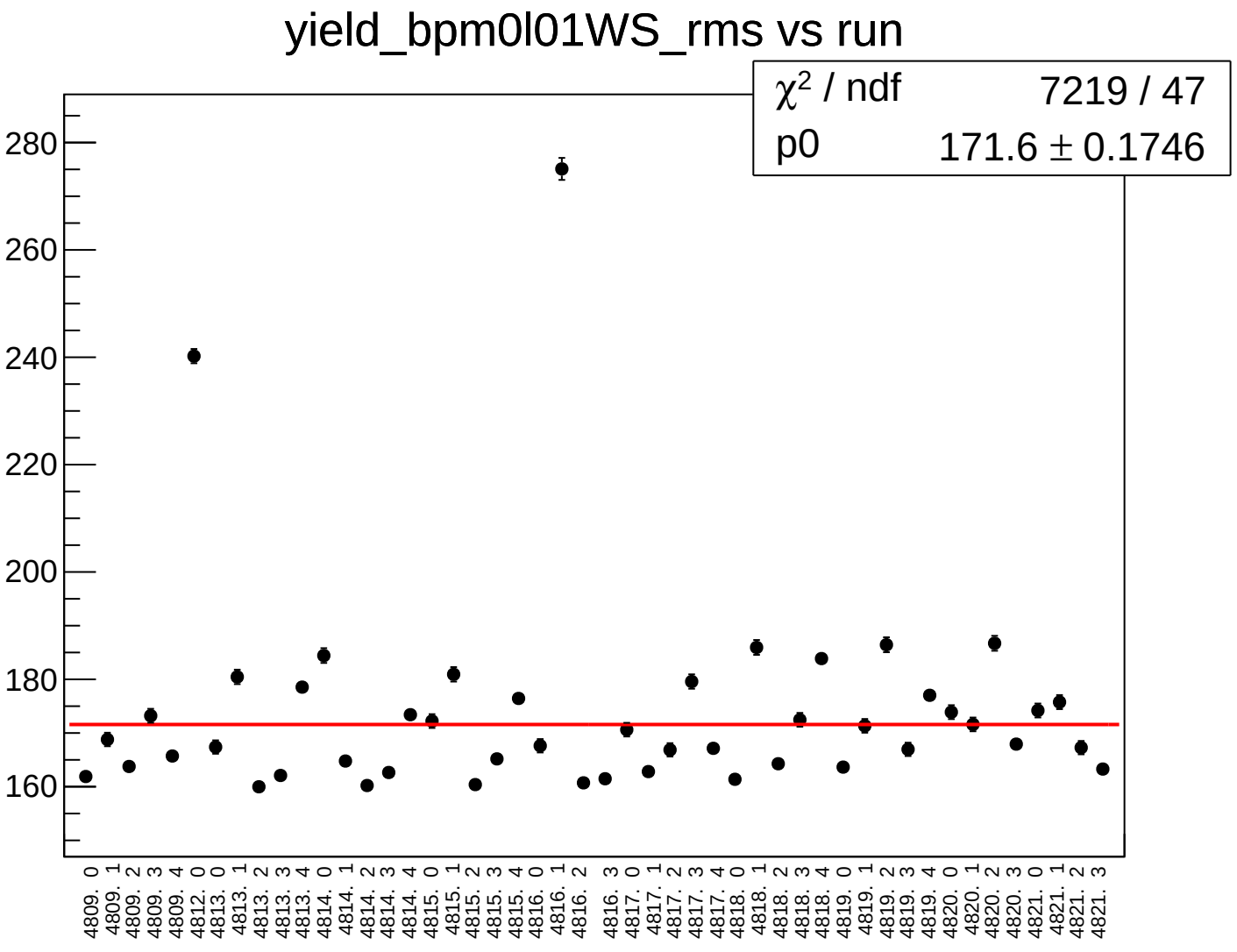

yield_bpm0i07WS_mean vs run
×10^3
χ^2 / ndf 1.366e+06 / 47
p0 1.188e+05 ± 0.3387
119.4
119.2
119
118.8
118.6
118.4
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean −250.4
Std Dev 277.9
300
200
100
0
−100
−200
pull1D
Entries 48
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

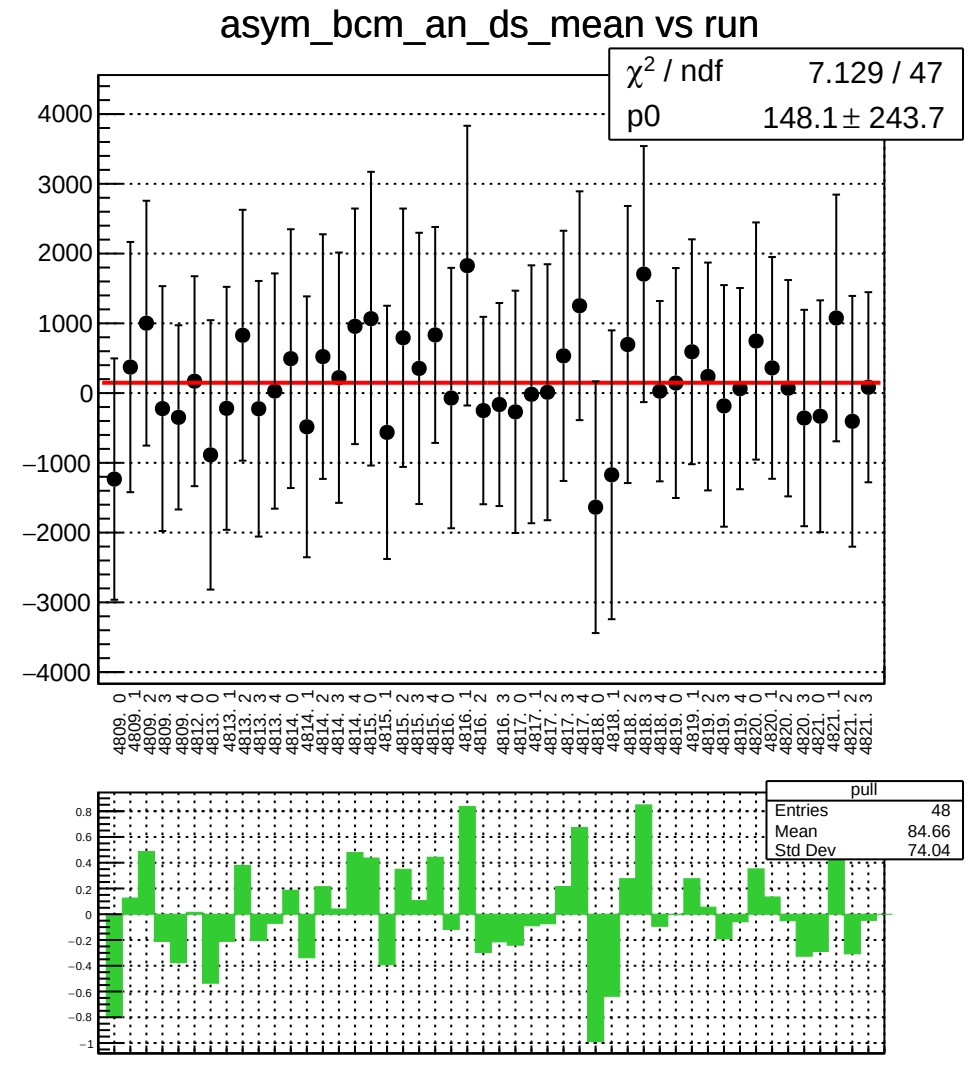

yield_bpm0i07WS_rms vs run
χ² / ndf 4327 / 47
p0 235.8 ± 0.2395
340
320
300
280
260
240
220
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

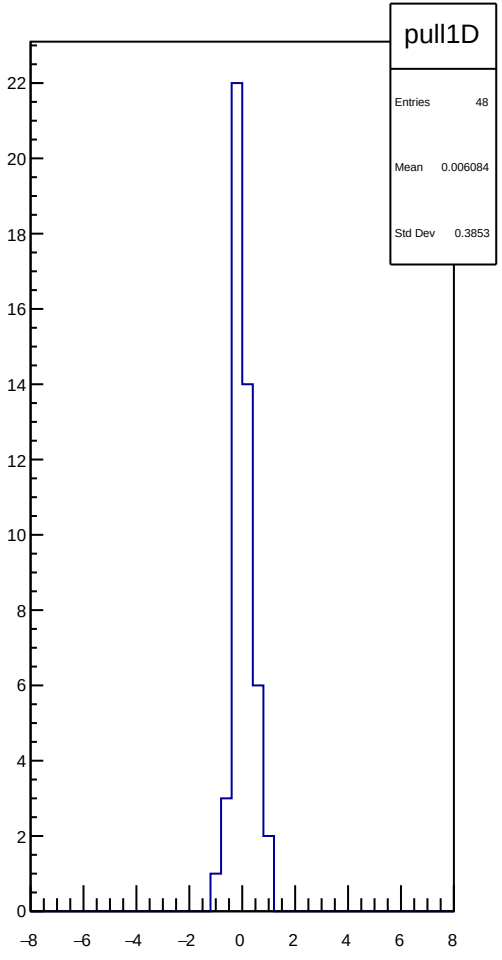

yield_bpm0l01WS_mean vs run
×10^3
104
103.8
103.6
103.4
103.2
103
102.8
χ² / ndf 2.083e+06 / 47
p0 1.033e+05 ± 0.2469
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

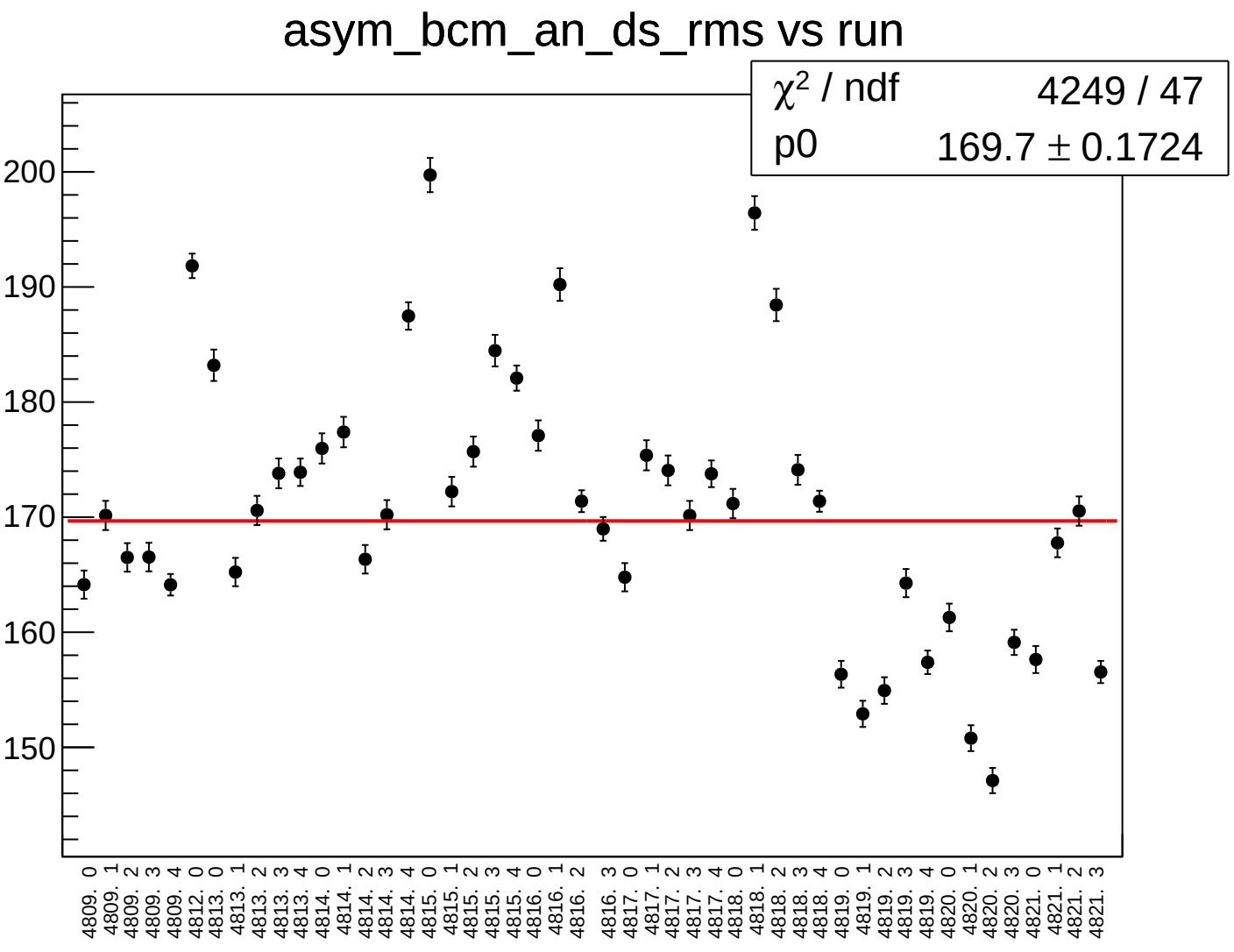

pull
Entries 48
Mean −203.3
Std Dev 233.8
300
200
100
0
−100
−200
−300

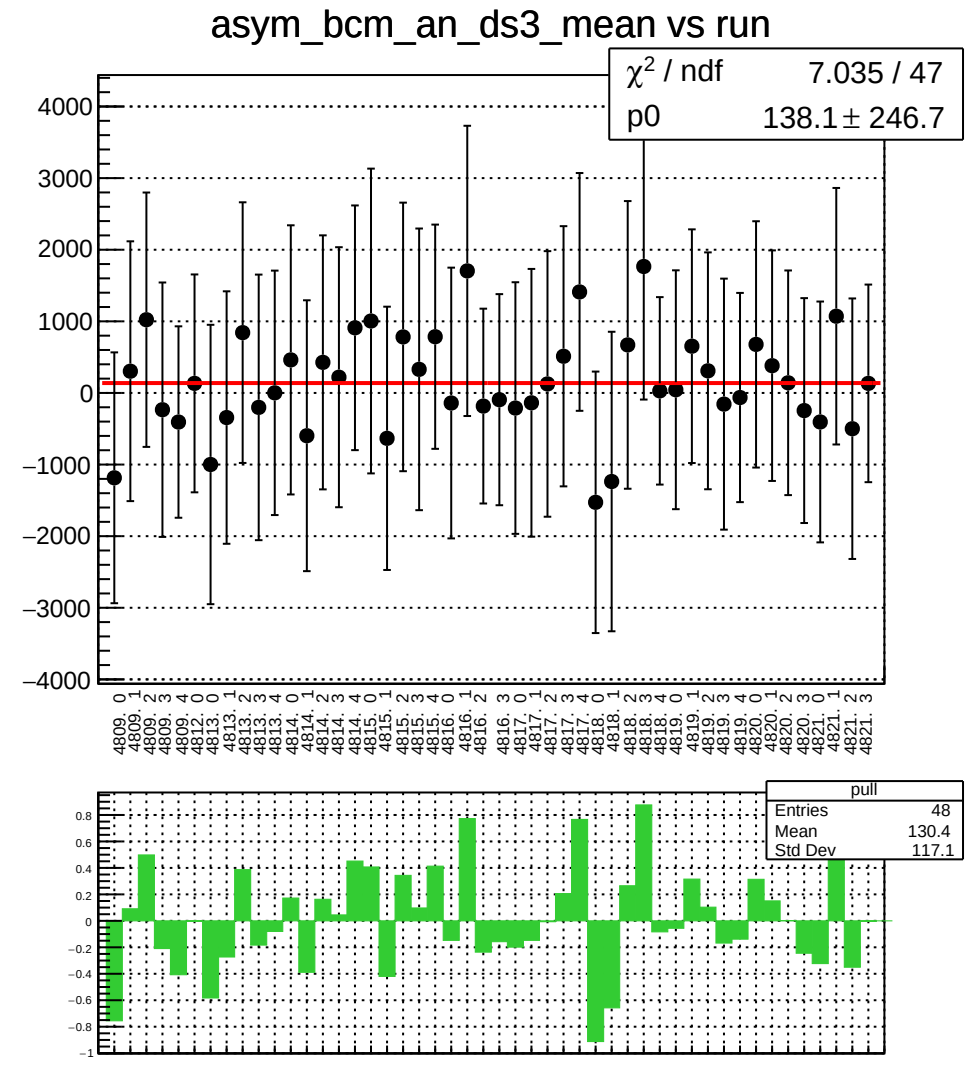

pull1D
Entries 48
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

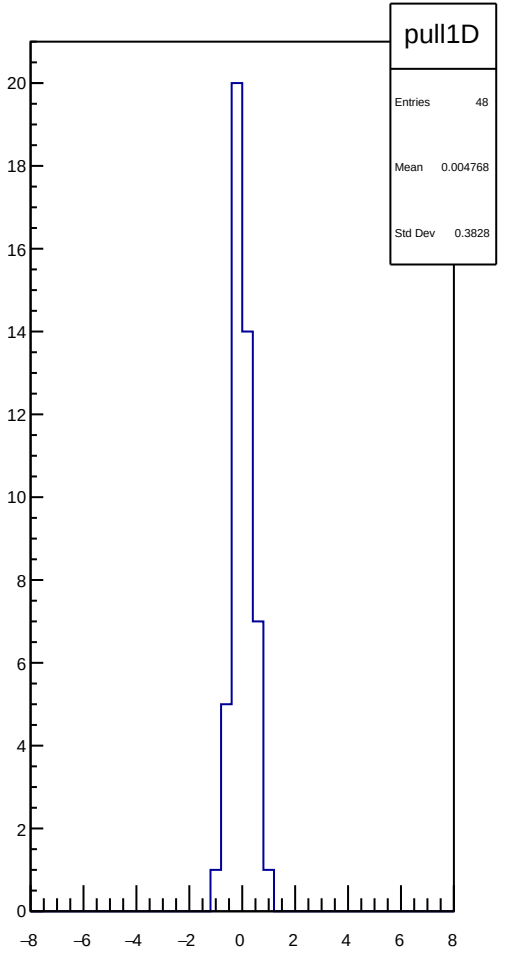

yield_bpm0l01WS_rms vs run
χ² / ndf 7219 / 47
p0 171.6 ± 0.1746
280
260
240
220
200
180
160
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

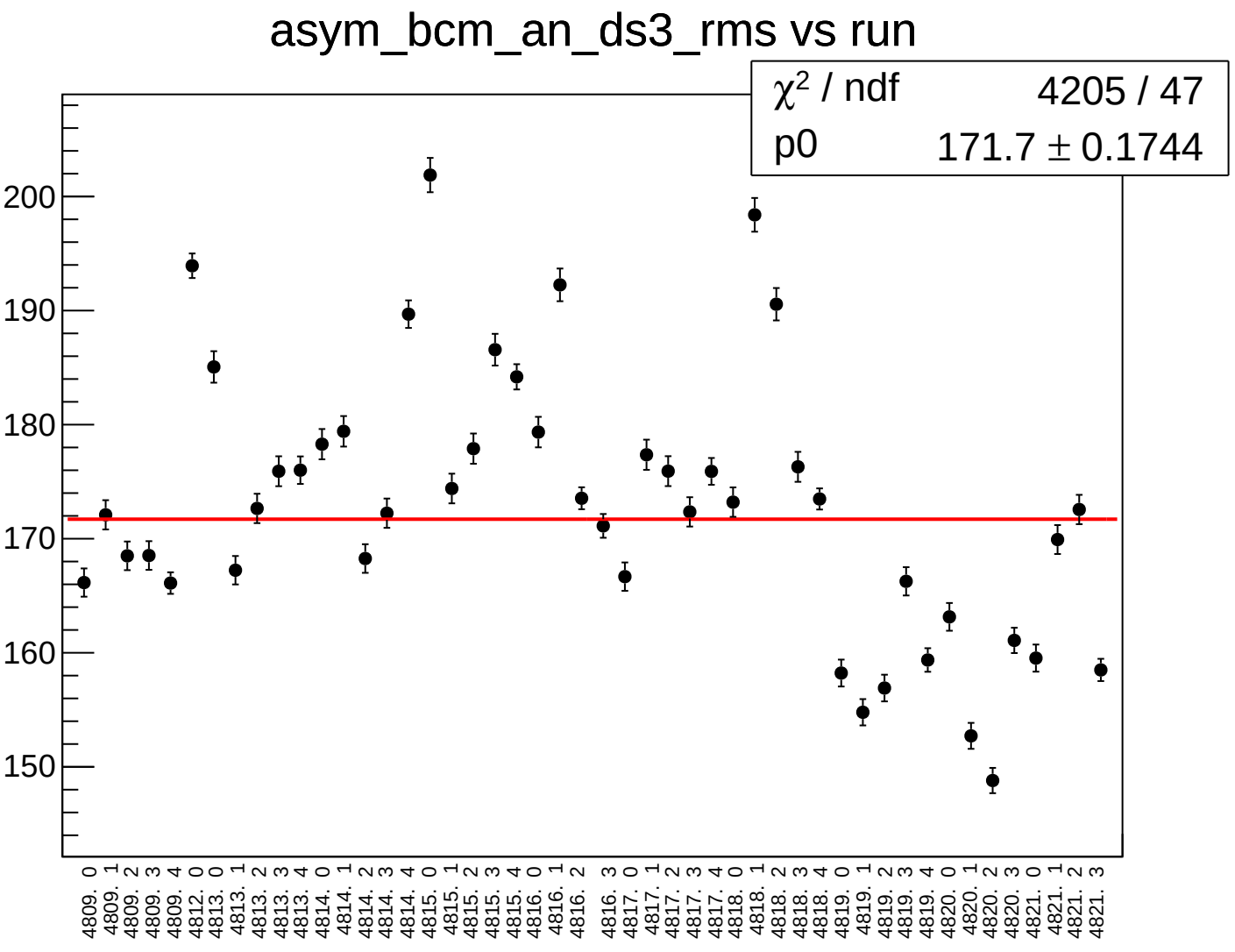

asym_bcm_an_ds_mean vs run
χ² / ndf 7.129 / 47
p0 148.1 ± 243.7
pull
Entries 48
Mean 84.66
Std Dev 74.04

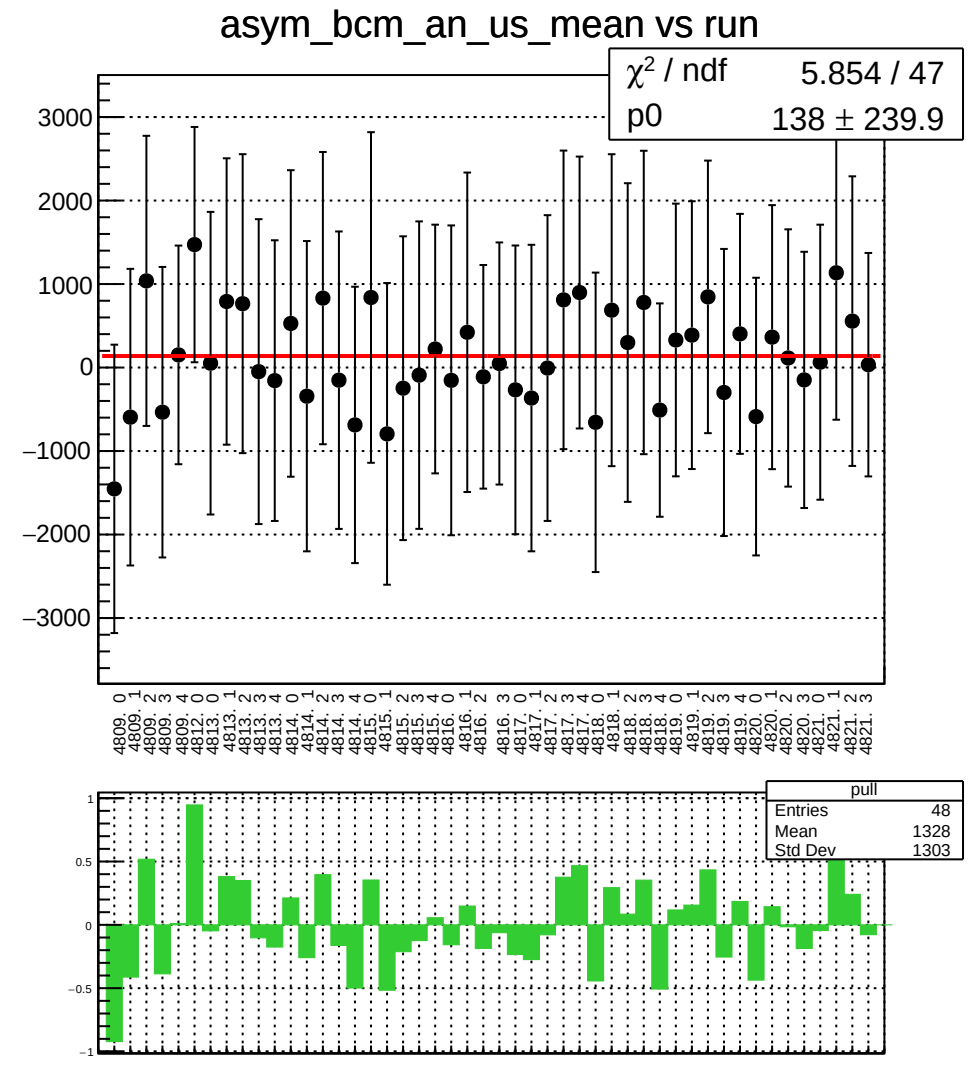

pull1D
Entries 48
Mean 0.006084
Std Dev 0.3853

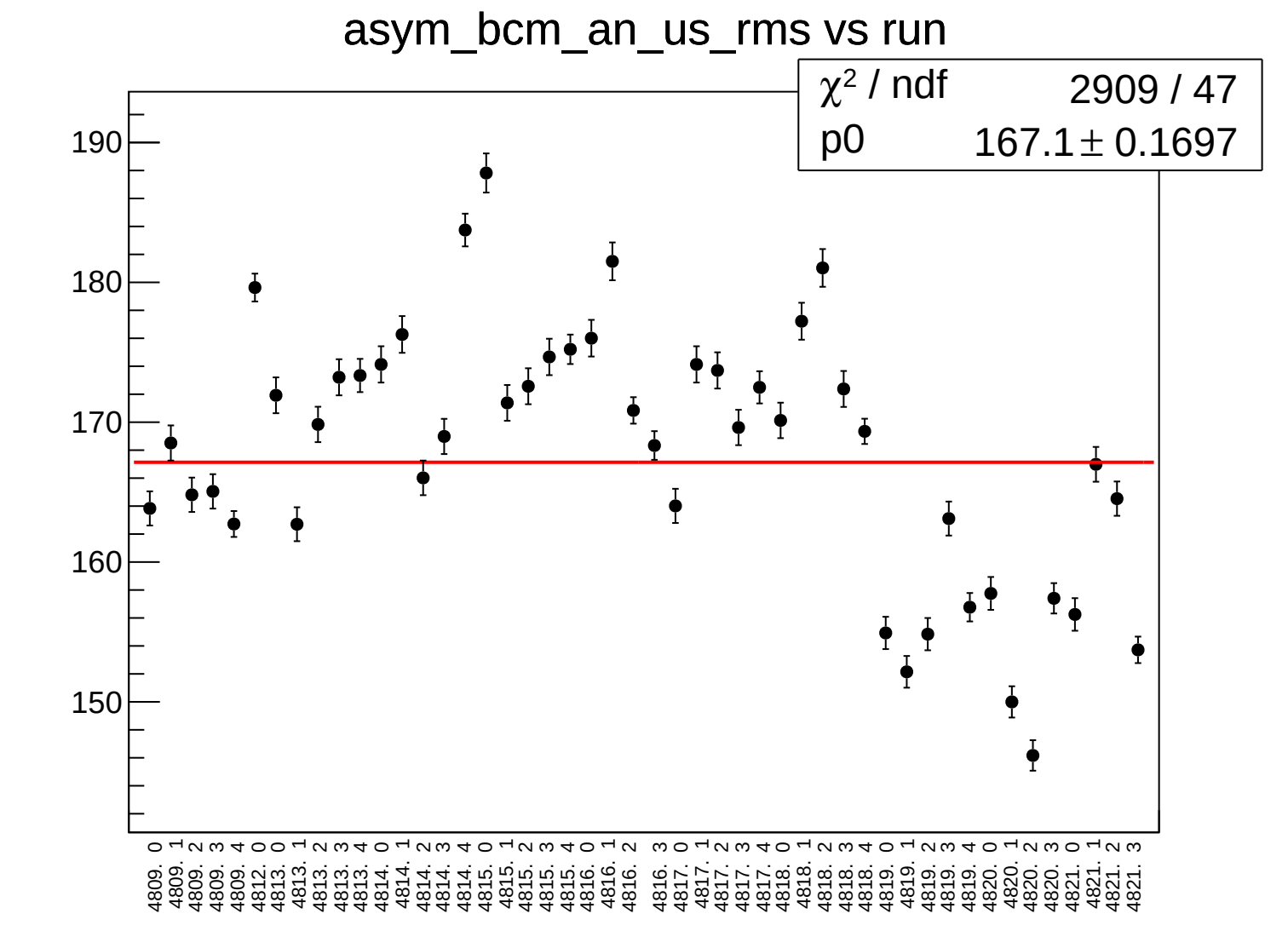

asym_bcm_an_ds_rms vs run
χ² / ndf 4249 / 47
p0 169.7 ± 0.1724
200
190
180
170
160
150
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

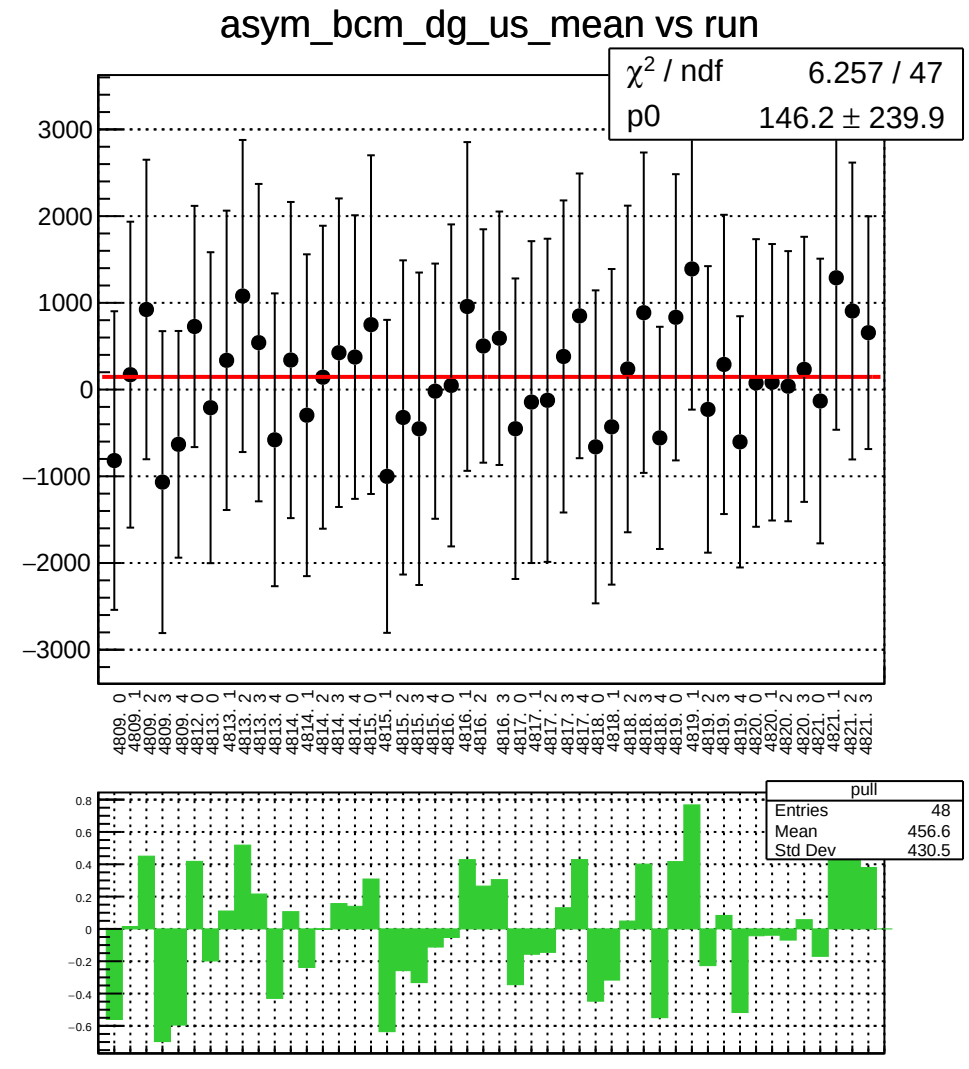

asym_bcm_an_ds3_mean vs run
χ² / ndf 7.035 / 47
p0 138.1 ± 246.7
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 130.4
Std Dev 117.1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

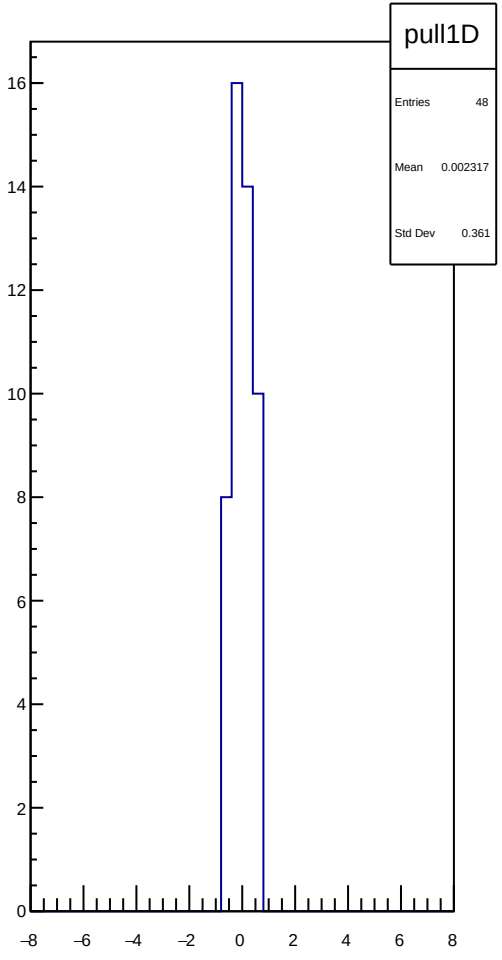

pull1D
Entries 48
Mean 0.004768
Std Dev 0.3828
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

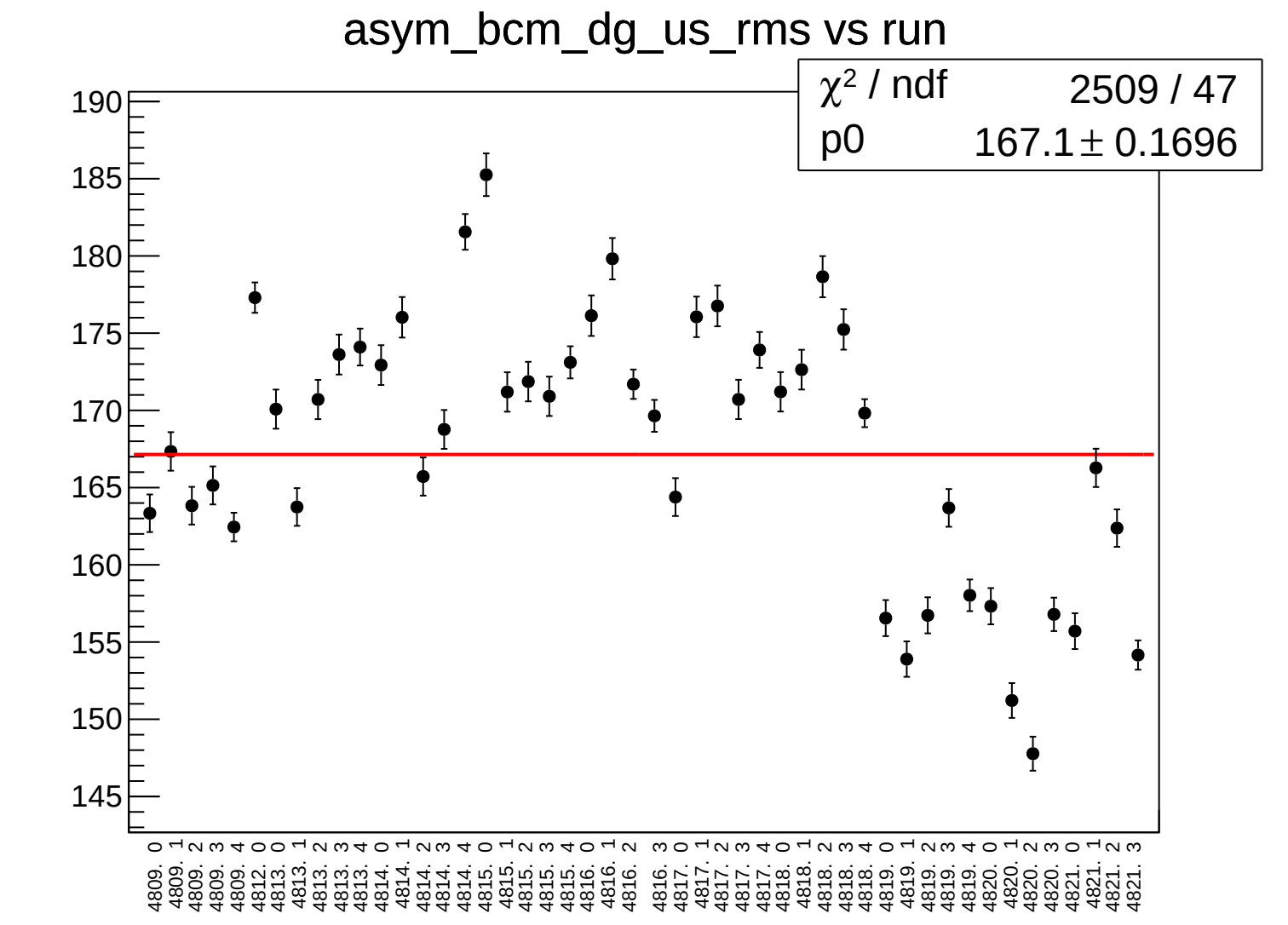

asym_bcm_an_ds3_rms vs run
χ² / ndf 4205 / 47
p0 171.7 ± 0.1744
200
190
180
170
160
150
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3


asym_bcm_an_us_mean vs run
χ² / ndf 5.854 / 47
p0 138 ± 239.9
3000
2000
1000
0
−1000
−2000
−3000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 1328
Std Dev 1303
1
0.5
0
−0.5
−1
pull1D
Entries 48
Mean 0.000367
Std Dev 0.3492
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_an_us_rms vs run
χ² / ndf 2909 / 47
p0 167.1 ± 0.1697
190
180
170
160
150
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3


asym_bcm_dg_us_mean vs run
χ² / ndf 6.257 / 47
p0 146.2 ± 239.9
3000
2000
1000
0
−1000
−2000
−3000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 456.6
Std Dev 430.5
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6


pull1D
Entries 48
Mean 0.002317
Std Dev 0.361
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_dg_us_rms vs run
χ² / ndf 2509 / 47
p0 167.1 ± 0.1696
190
185
180
175
170
165
160
155
150
145
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
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4815. 2
4815. 3
4815. 4
4816. 0
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4816. 2
4816. 3
4817. 0
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4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
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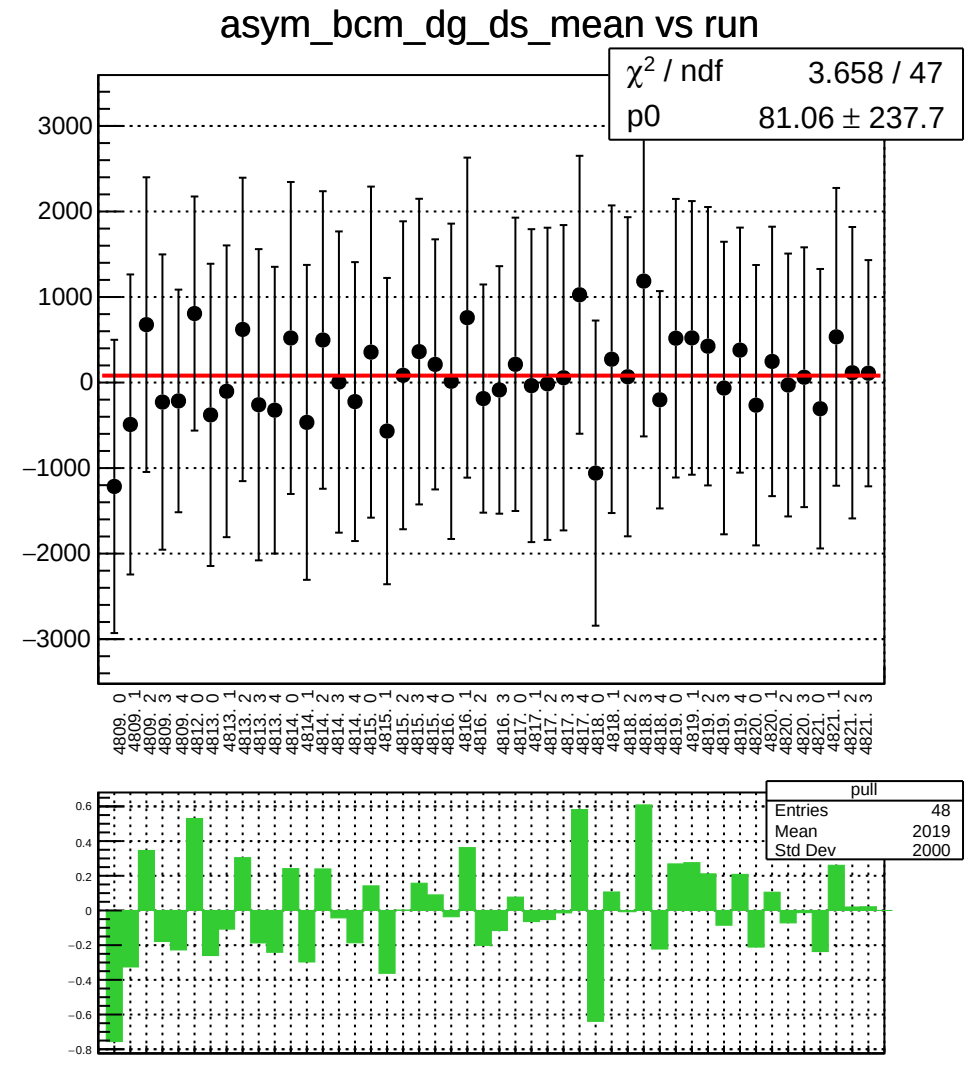
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3


asym_bcm_dg_ds_mean vs run
χ² / ndf 3.658 / 47
p0 81.06 ± 237.7
3000
2000
1000
0
−1000
−2000
−3000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
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4815. 2
4815. 3
4815. 4
4816. 0
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4816. 2
4816. 3
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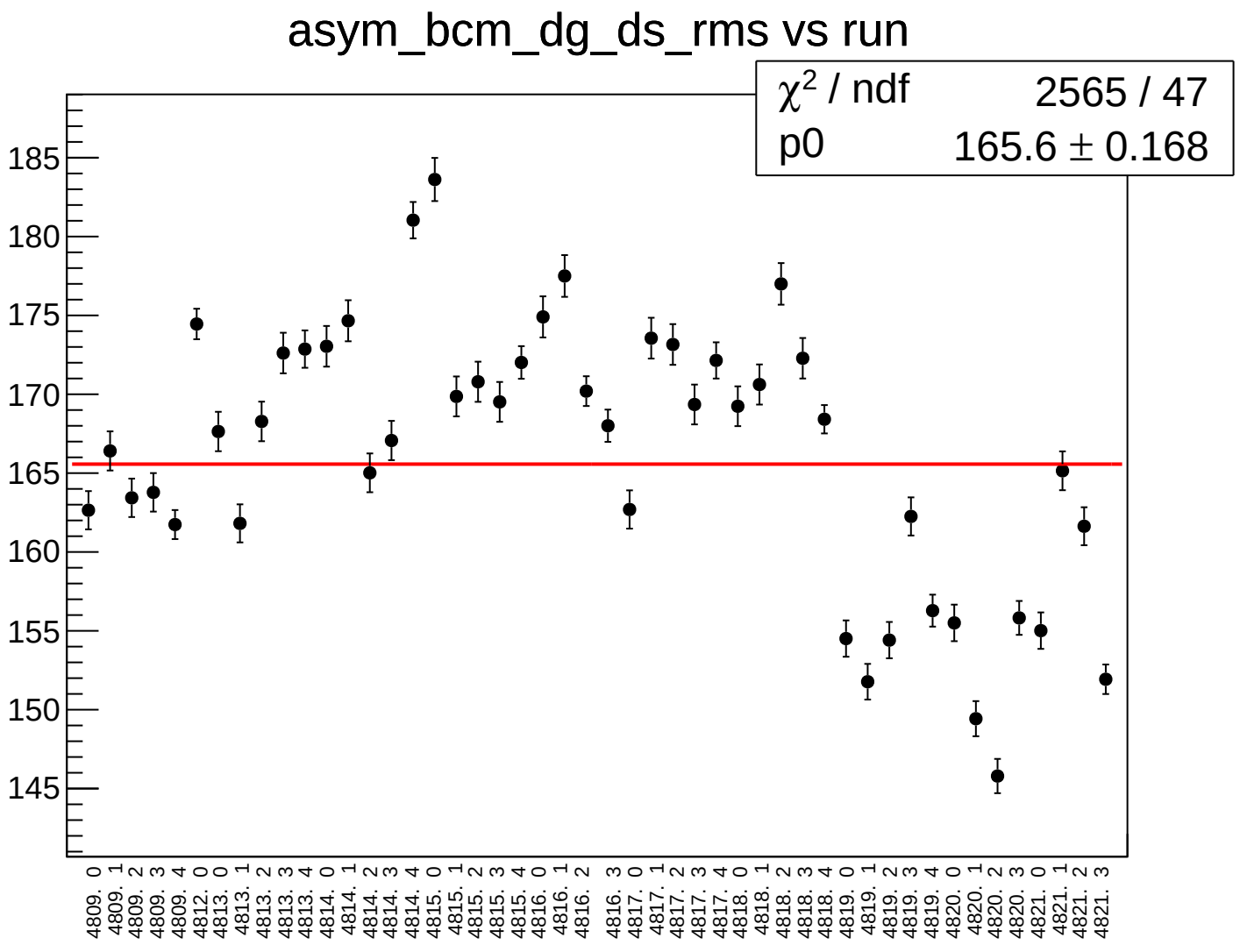
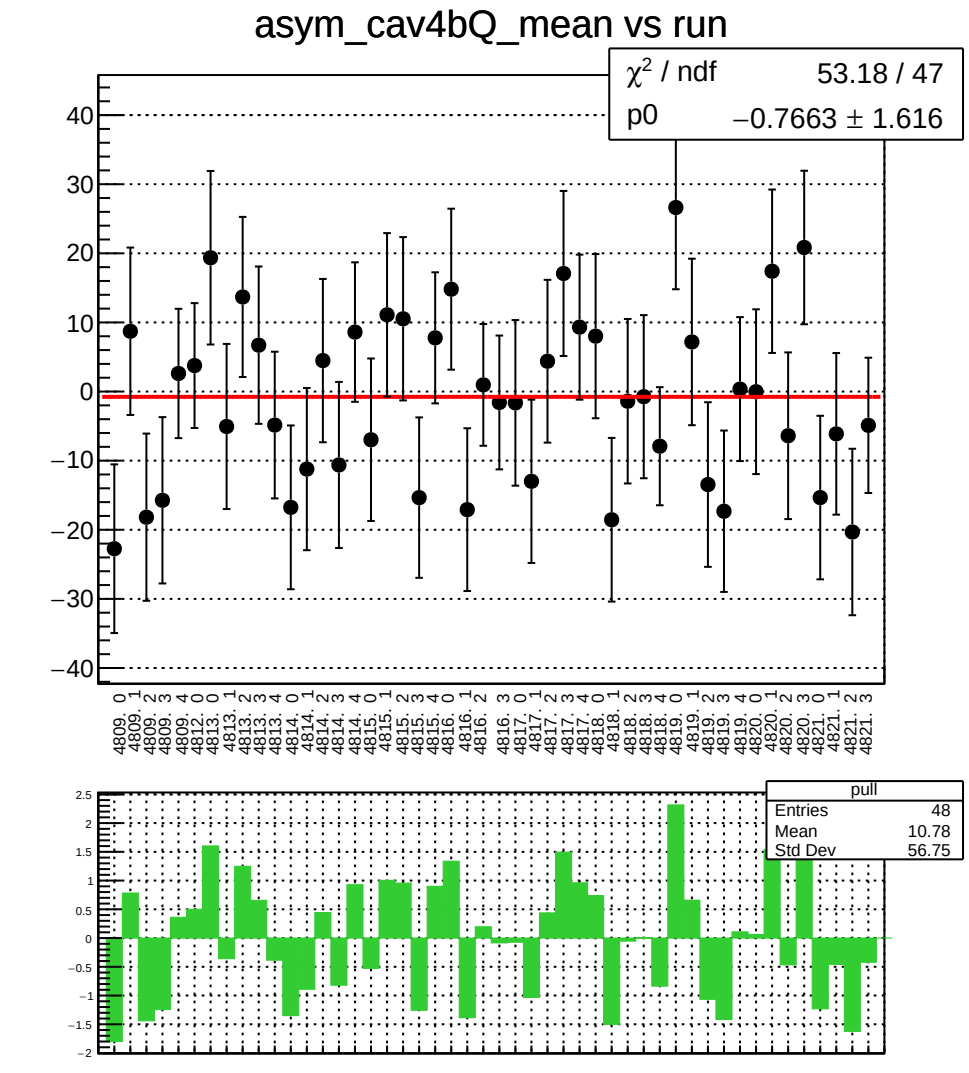
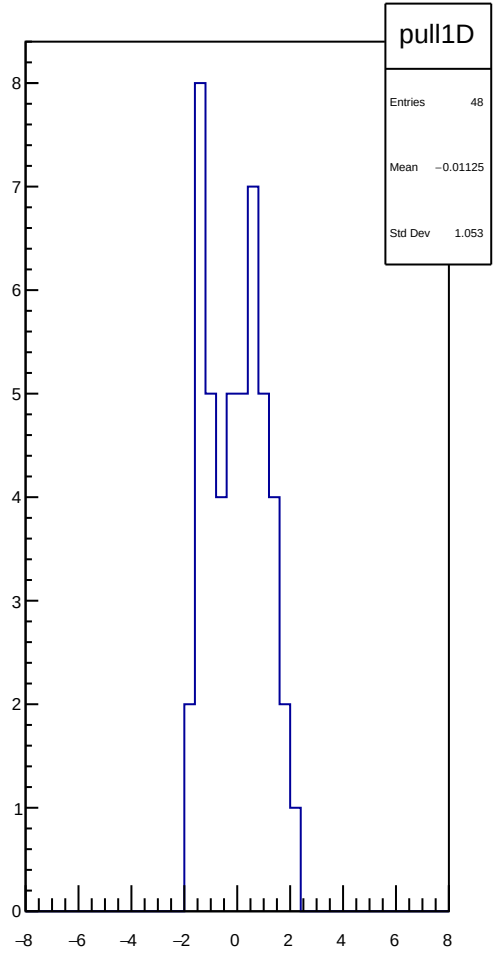
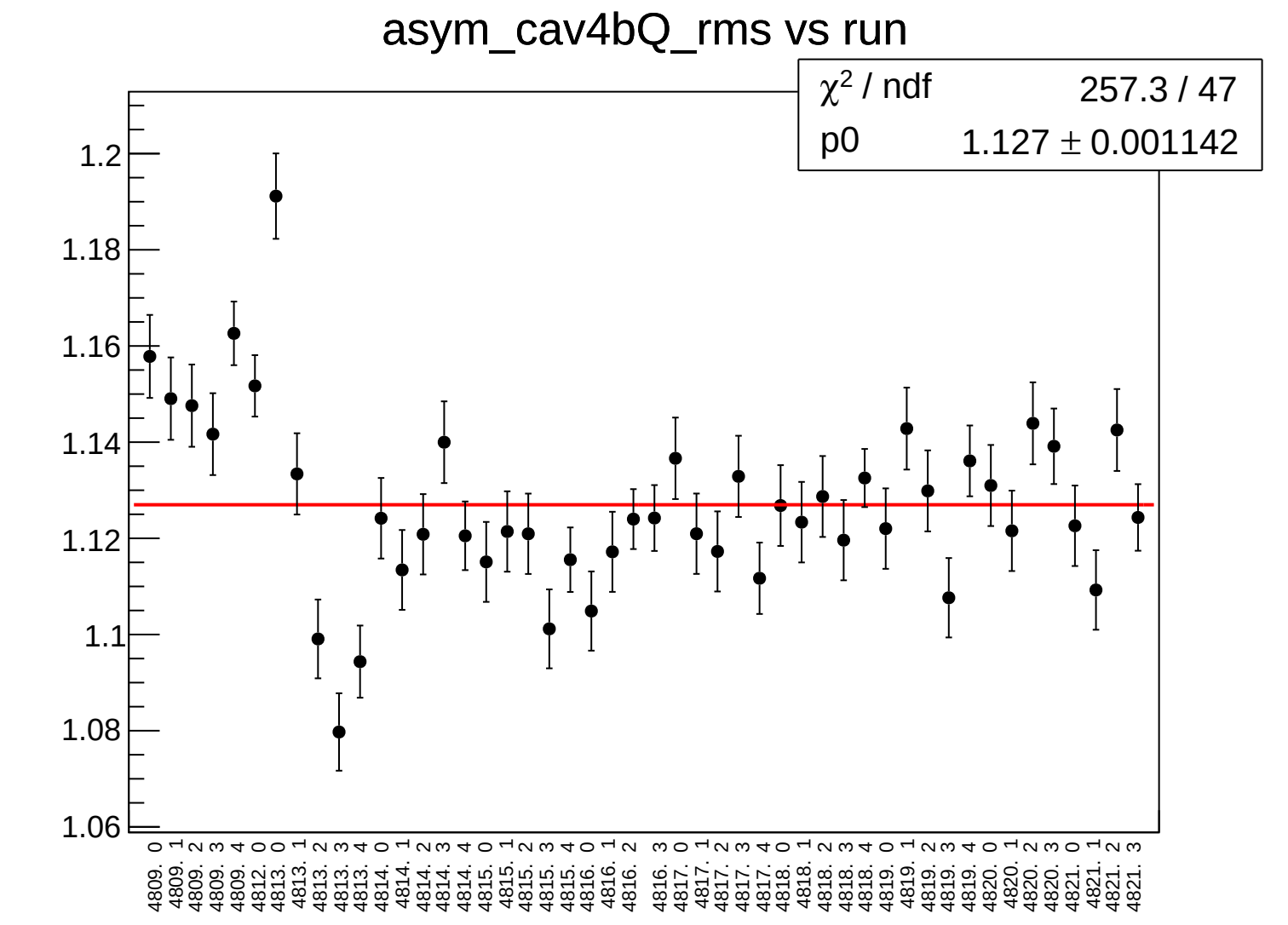
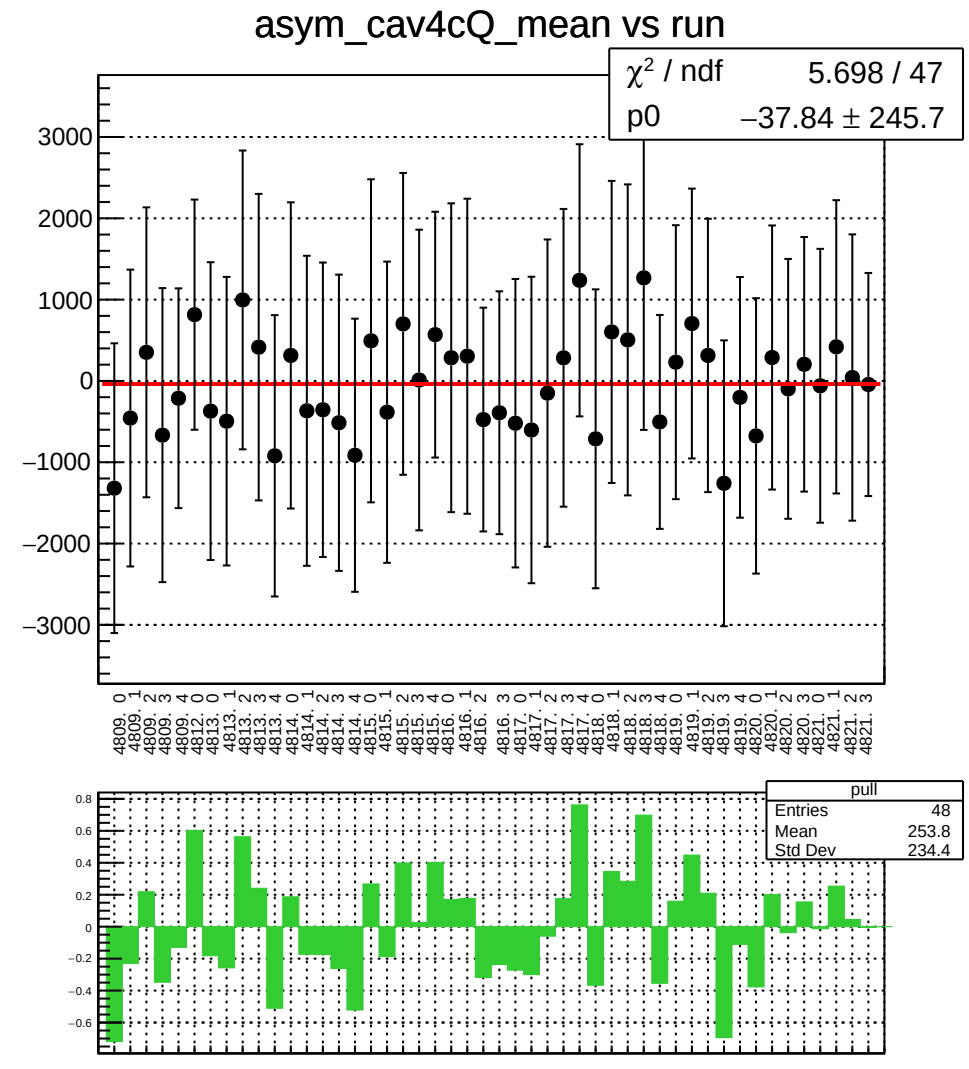
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 2019
Std Dev 2000
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 48
Mean 0.0003765
Std Dev 0.276
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

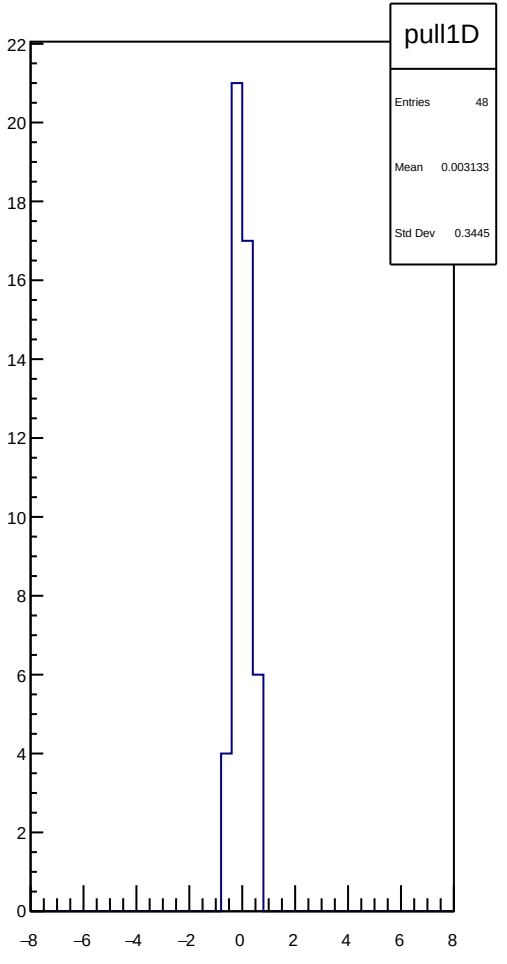

asym_bcm_dg_ds_rms vs run
χ² / ndf 2565 / 47
p0 165.6 ± 0.168
185
180
175
170
165
160
155
150
145
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

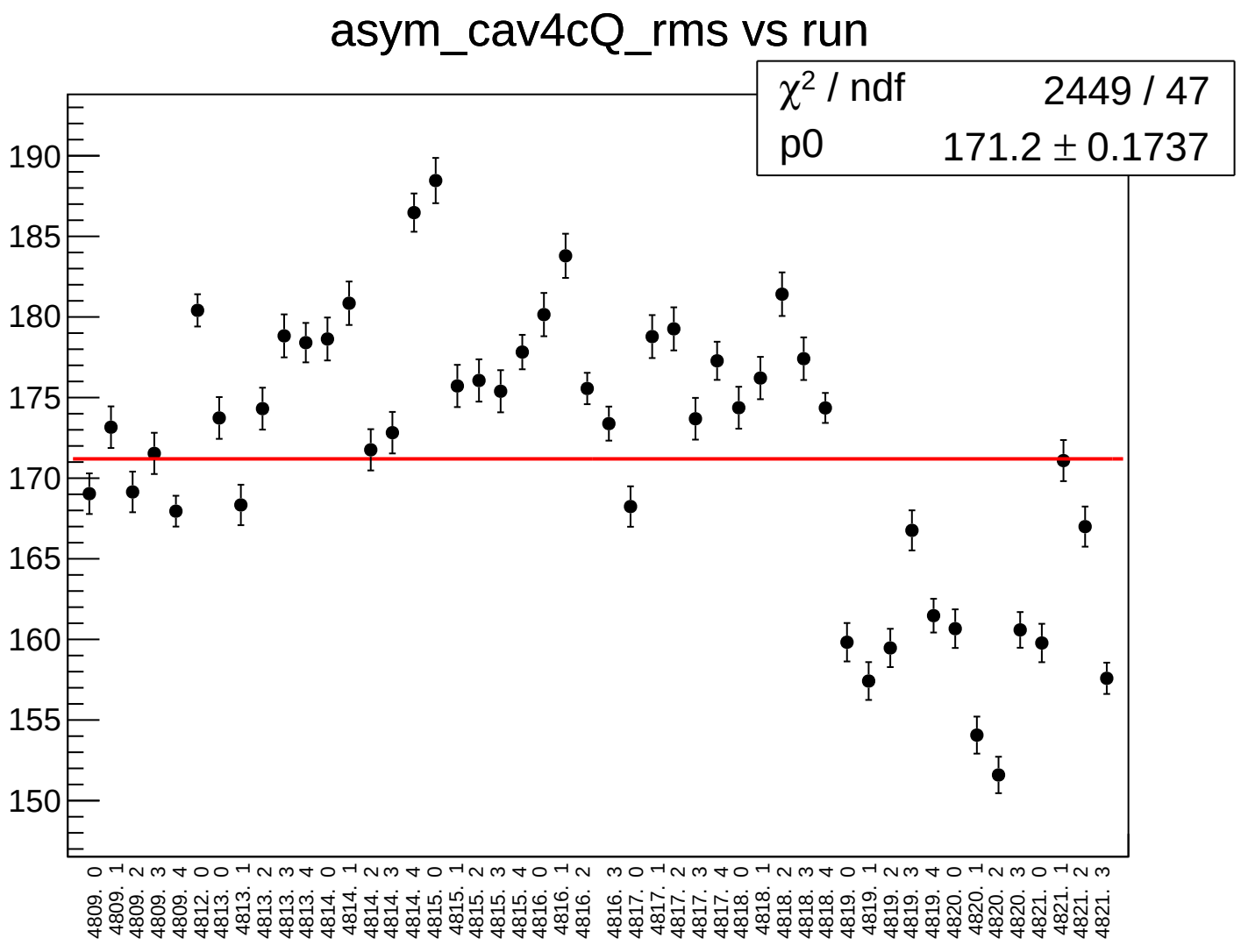

asym_cav4bQ_mean vs run
χ² / ndf 53.18 / 47
p0 −0.7663 ± 1.616
pull
Entries 48
Mean 10.78
Std Dev 56.75

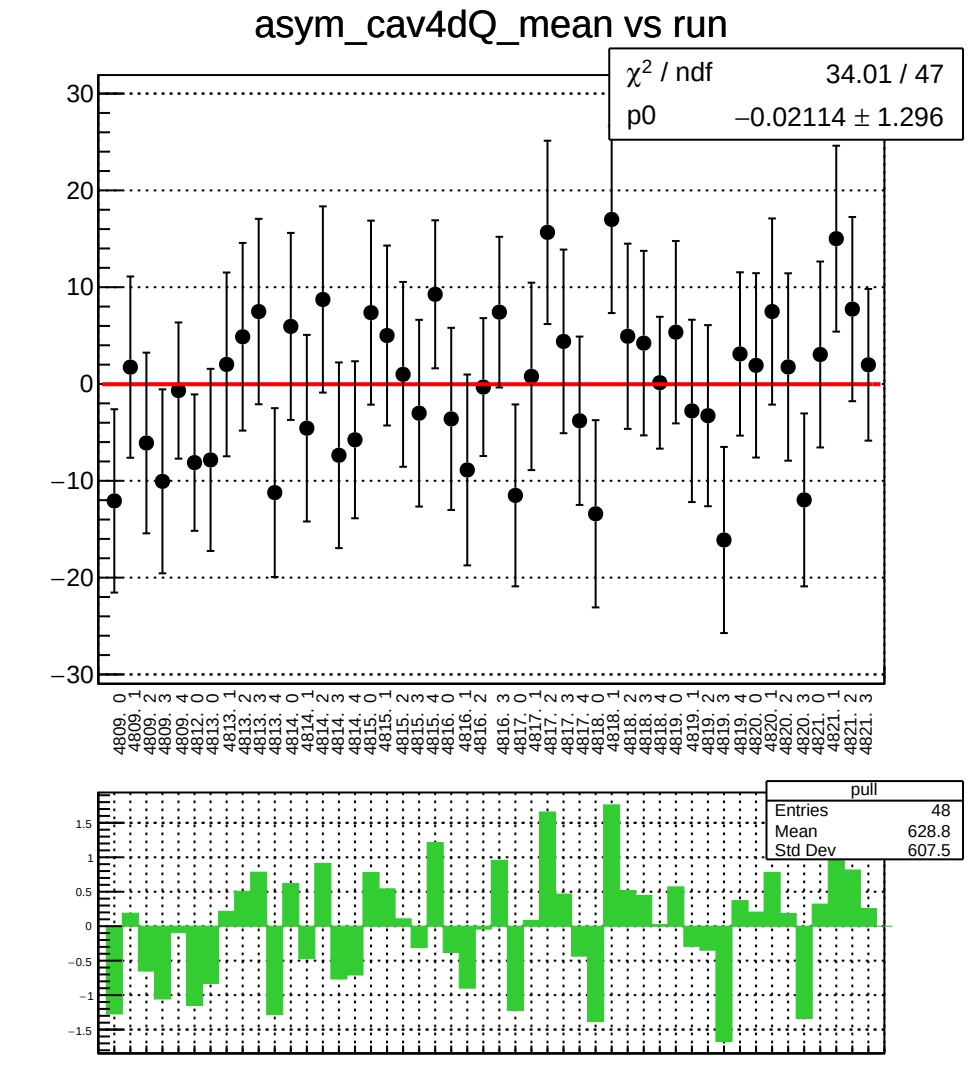

pull1D
Entries 48
Mean −0.01125
Std Dev 1.053

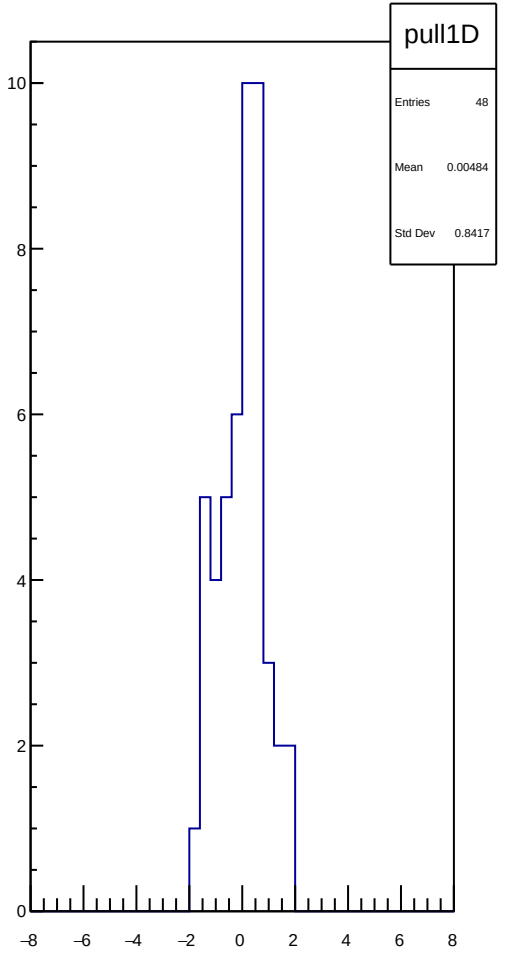

asym_cav4bQ_rms vs run
χ² / ndf 257.3 / 47
p0 1.127 ± 0.001142
1.2
1.18
1.16
1.14
1.12
1.1
1.08
1.06
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

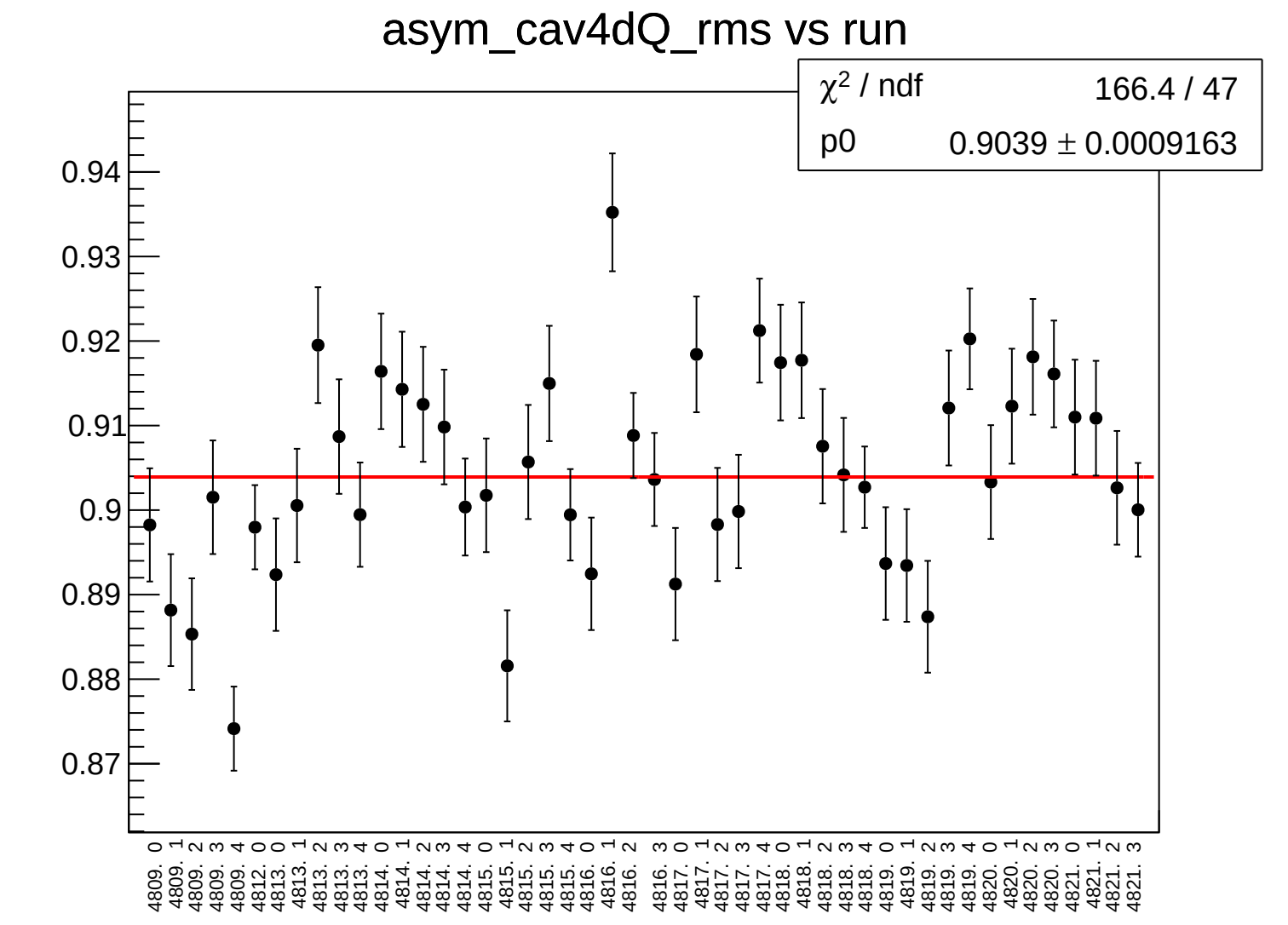

asym_cav4cQ_mean vs run
χ² / ndf 5.698 / 47
p0 −37.84 ± 245.7
3000
2000
1000
0
−1000
−2000
−3000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 253.8
Std Dev 234.4
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

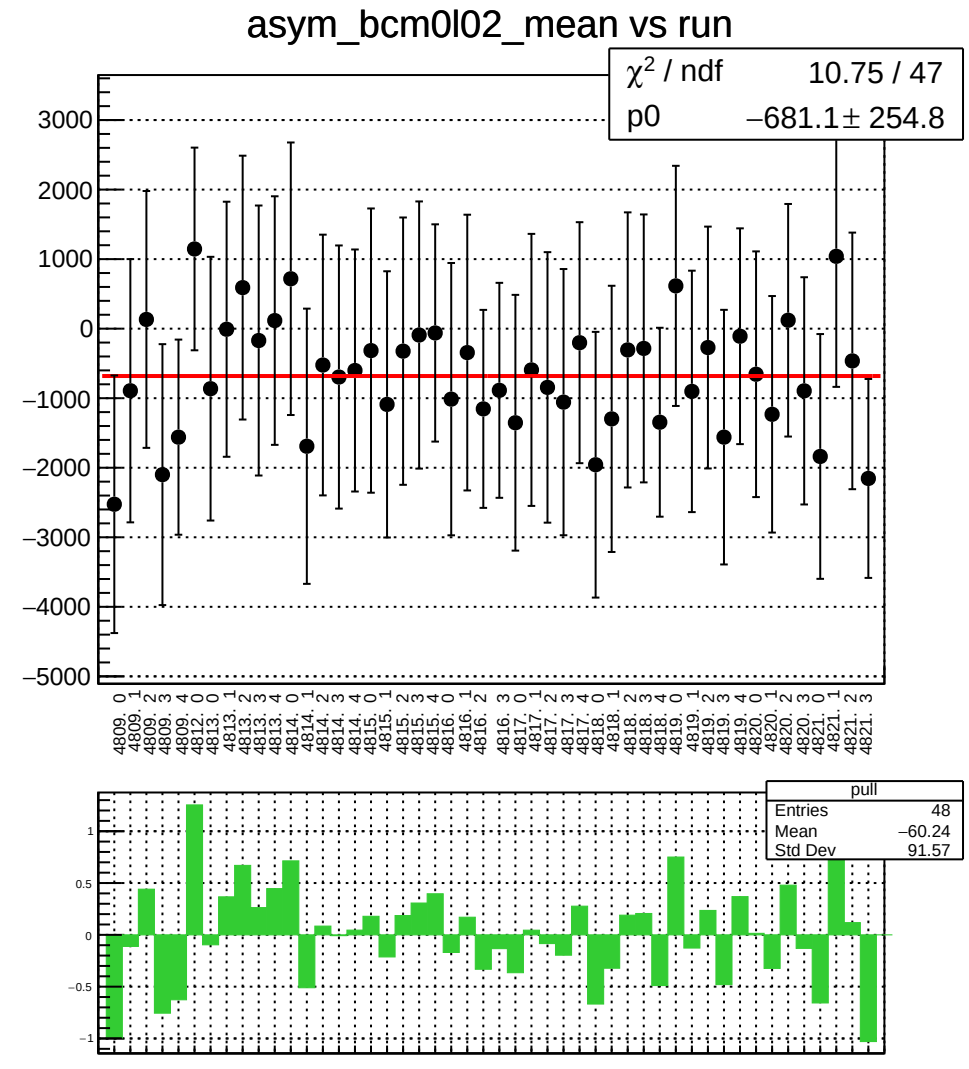

pull1D
Entries 48
Mean 0.003133
Std Dev 0.3445
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

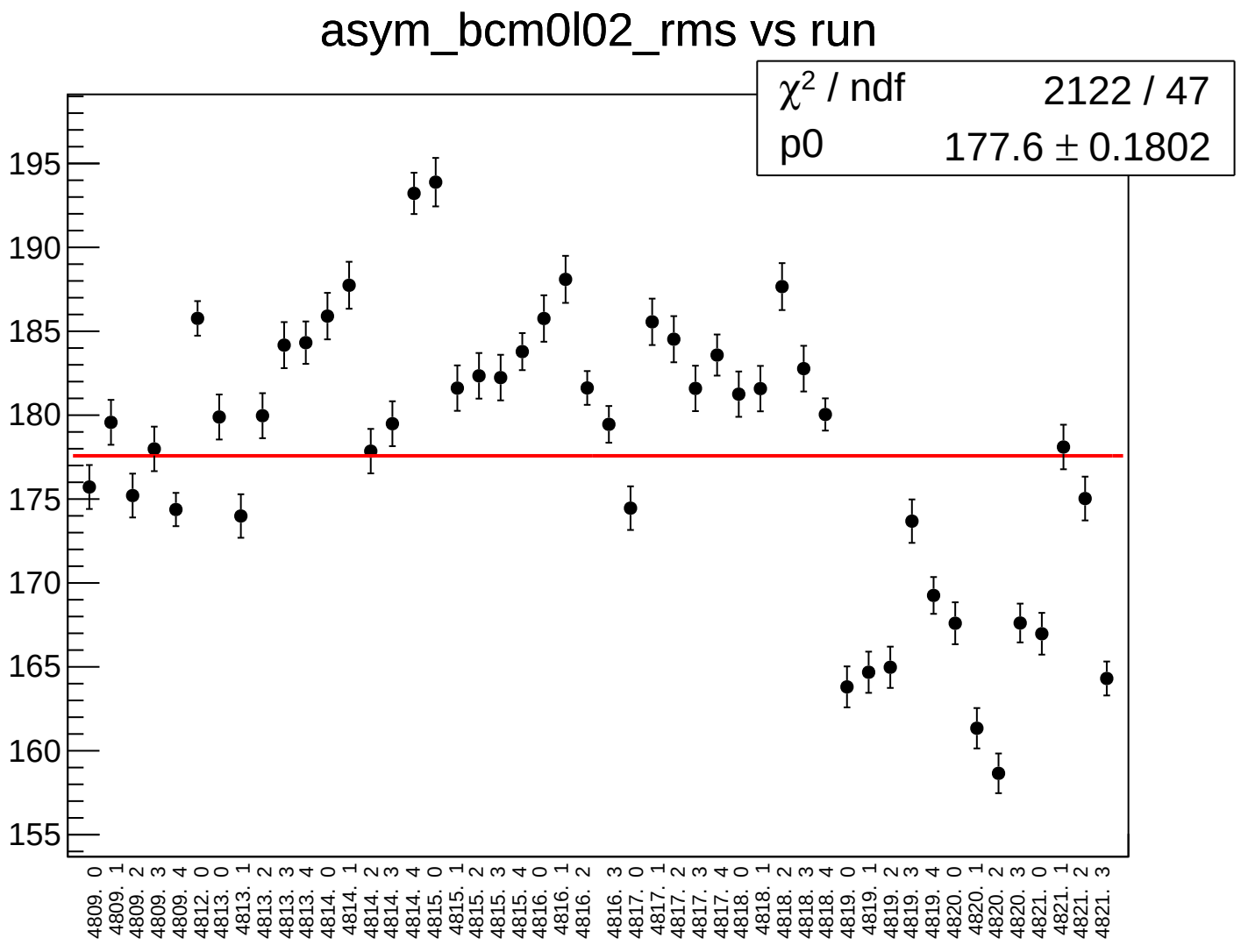

asym_cav4cQ_rms vs run
χ² / ndf 2449 / 47
p0 171.2 ± 0.1737
190
185
180
175
170
165
160
155
150
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

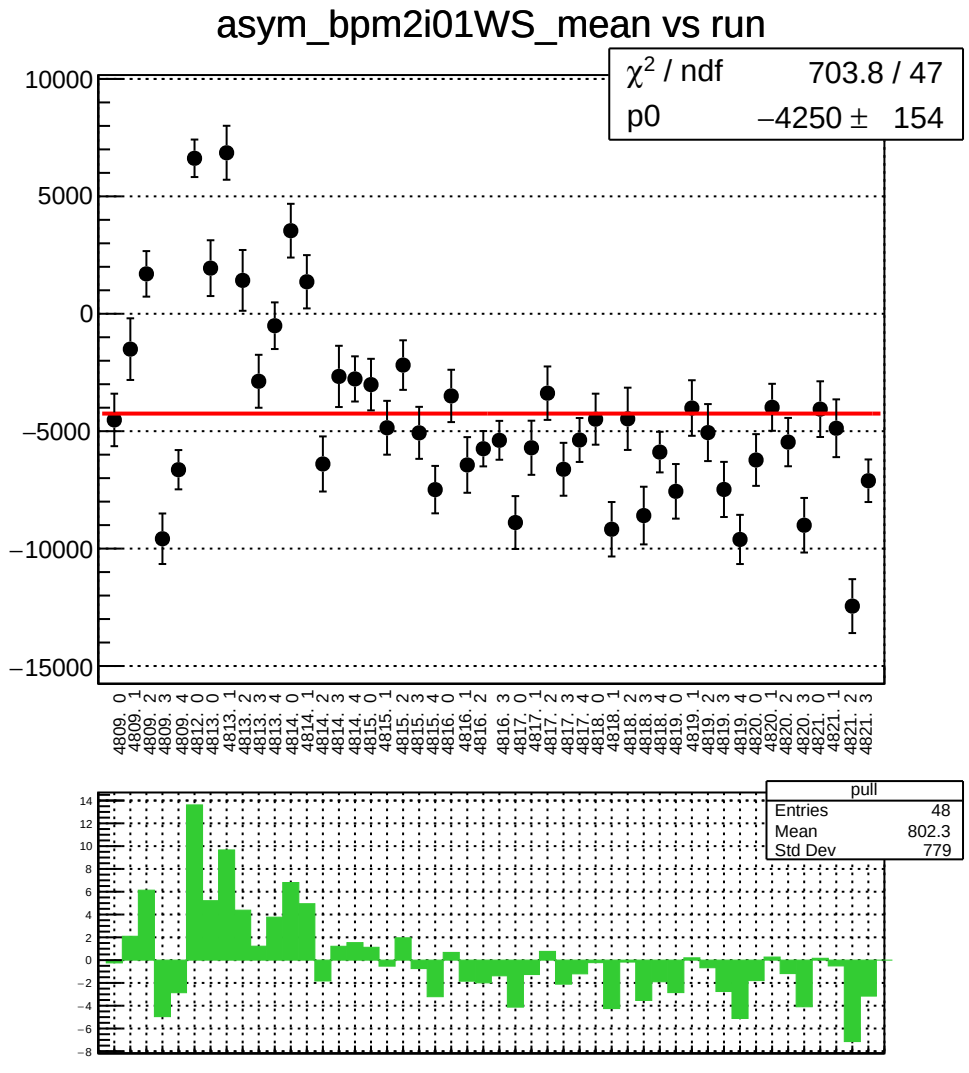

asym_cav4dQ_mean vs run
χ² / ndf 34.01 / 47
p0 −0.02114 ± 1.296
pull
Entries 48
Mean 628.8
Std Dev 607.5

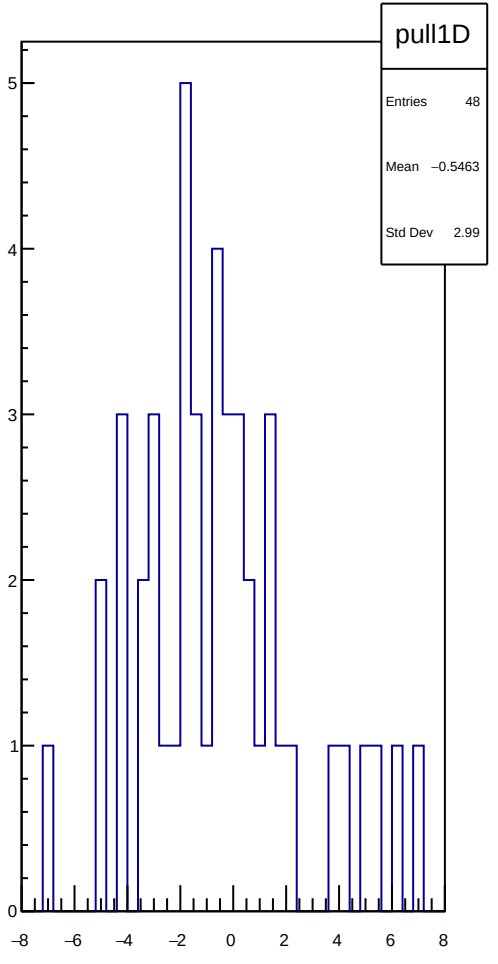

pull1D
Entries 48
Mean 0.00484
Std Dev 0.8417

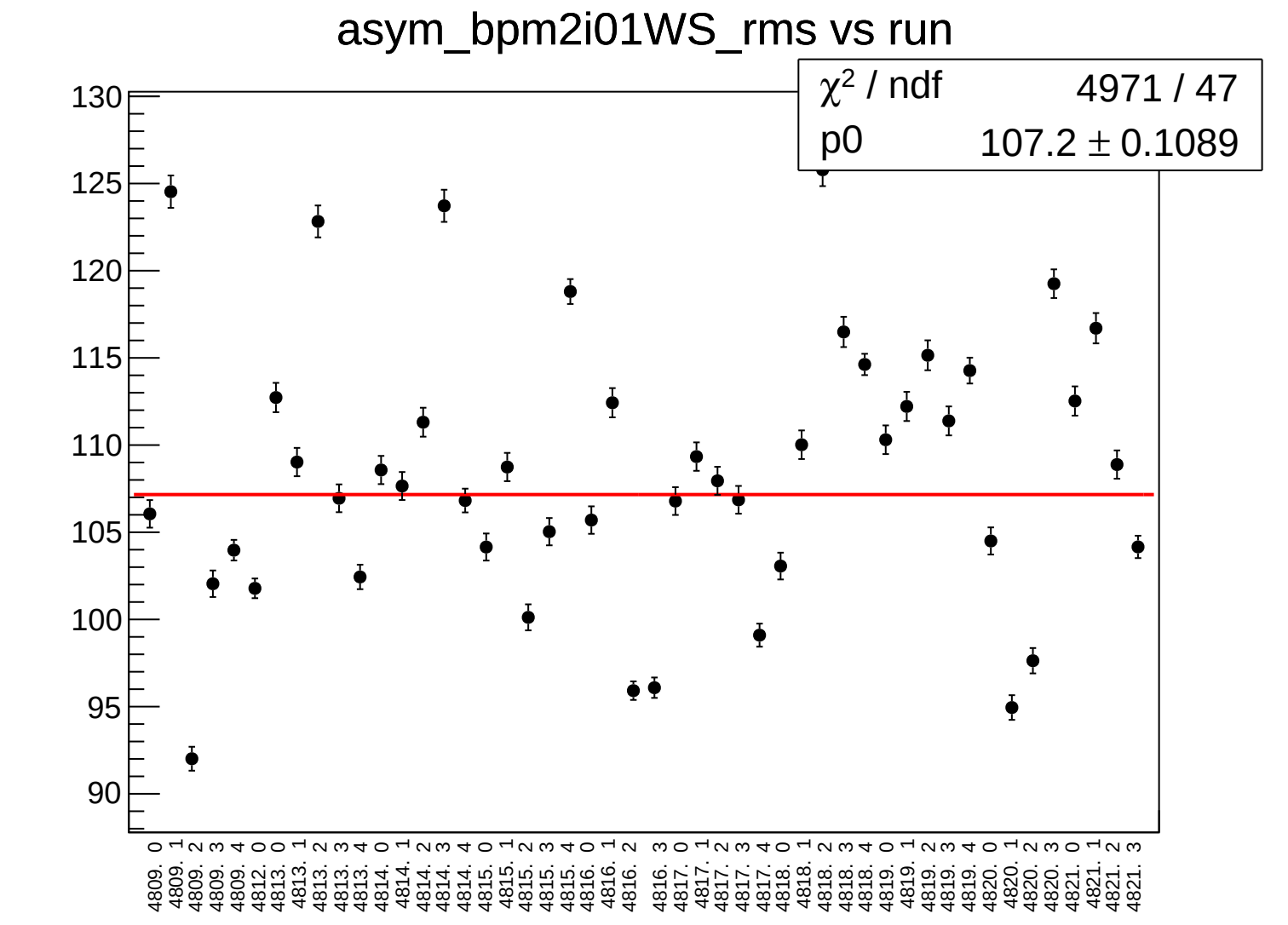

asym_cav4dQ_rms vs run
χ² / ndf 166.4 / 47
p0 0.9039 ± 0.0009163
0.94
0.93
0.92
0.91
0.9
0.89
0.88
0.87
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

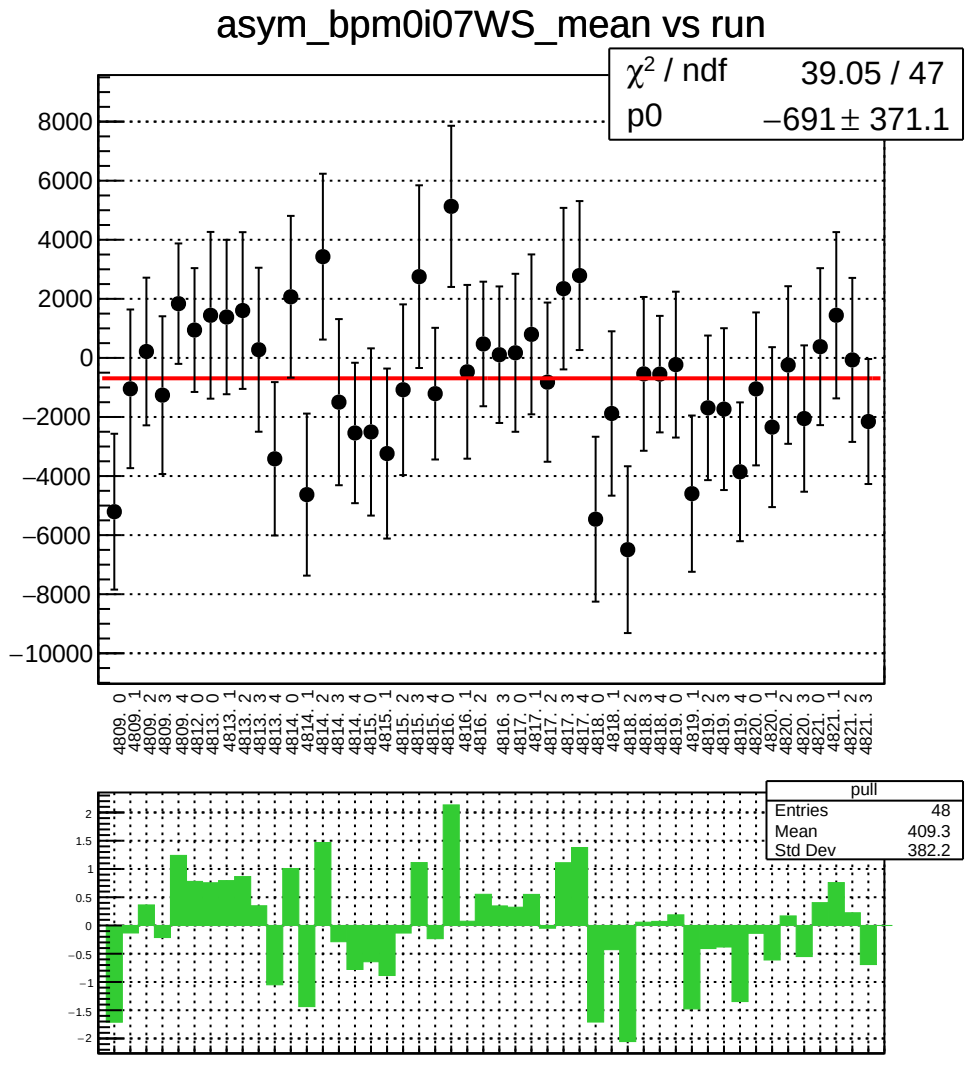

asym_bcm0l02_mean vs run
χ^2 / ndf 10.75 / 47
p0 −681.1± 254.8
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean −60.24
Std Dev 91.57
1
0.5
0
−0.5
−1
pull1D
Entries 48
Mean 0.006237
Std Dev 0.4732
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

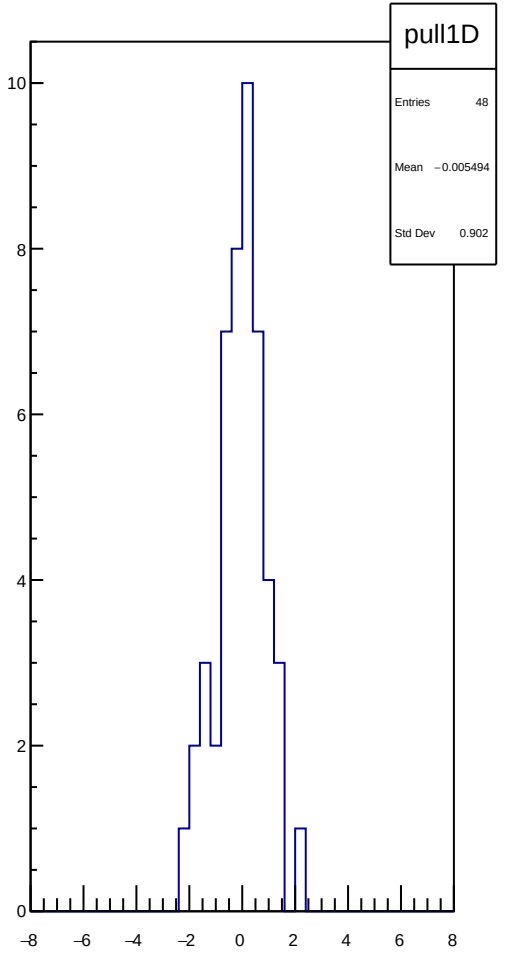

asym_bcm0l02_rms vs run
χ² / ndf 2122 / 47
p0 177.6 ± 0.1802
195
190
185
180
175
170
165
160
155
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

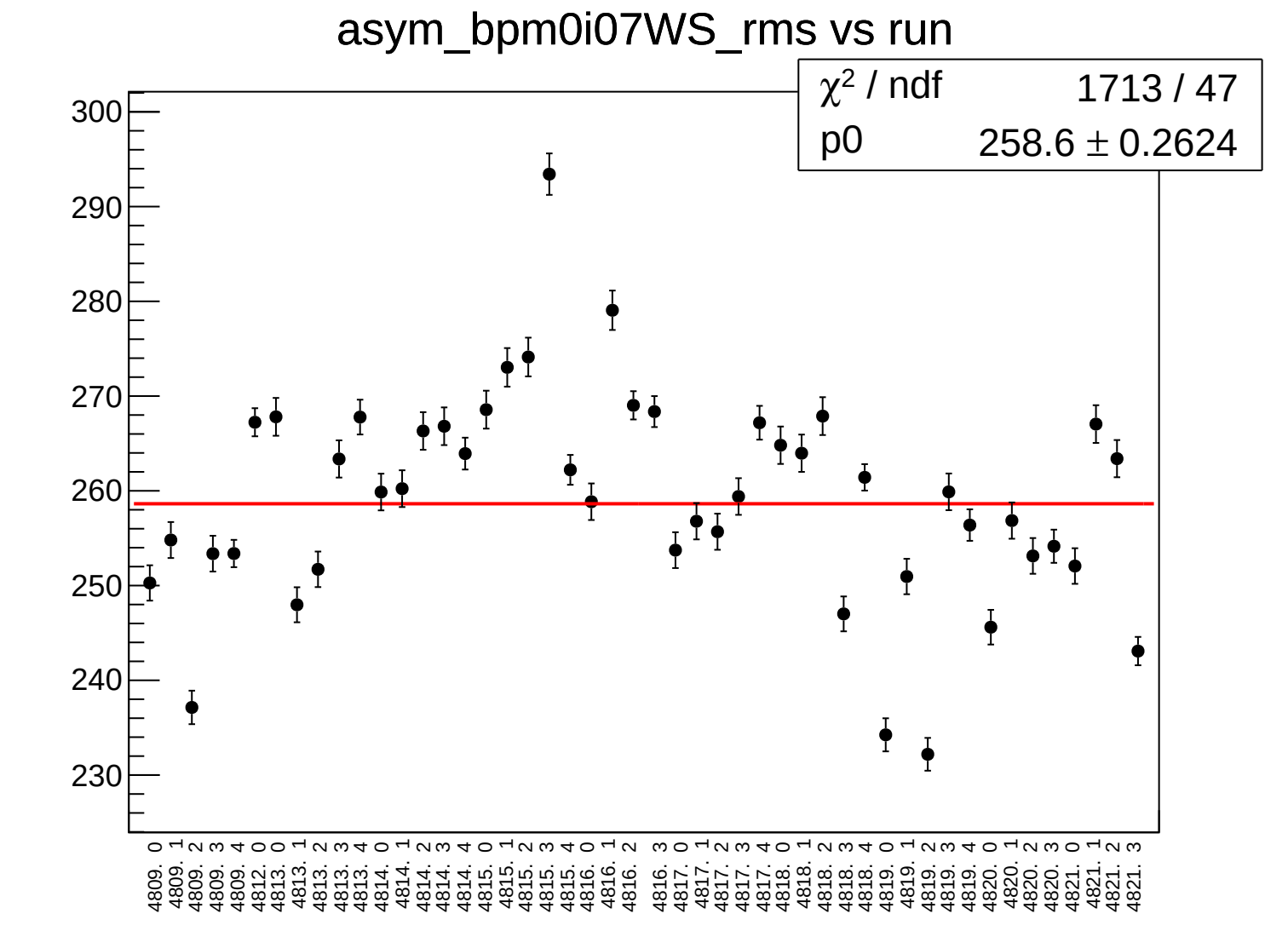

asym_bpm2i01WS_mean vs run
χ² / ndf 703.8 / 47
p0 −4250 ± 154
10000
5000
0
−5000
−10000
−15000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 802.3
Std Dev 779
14
12
10
8
6
4
2
0
−2
−4
−6
−8

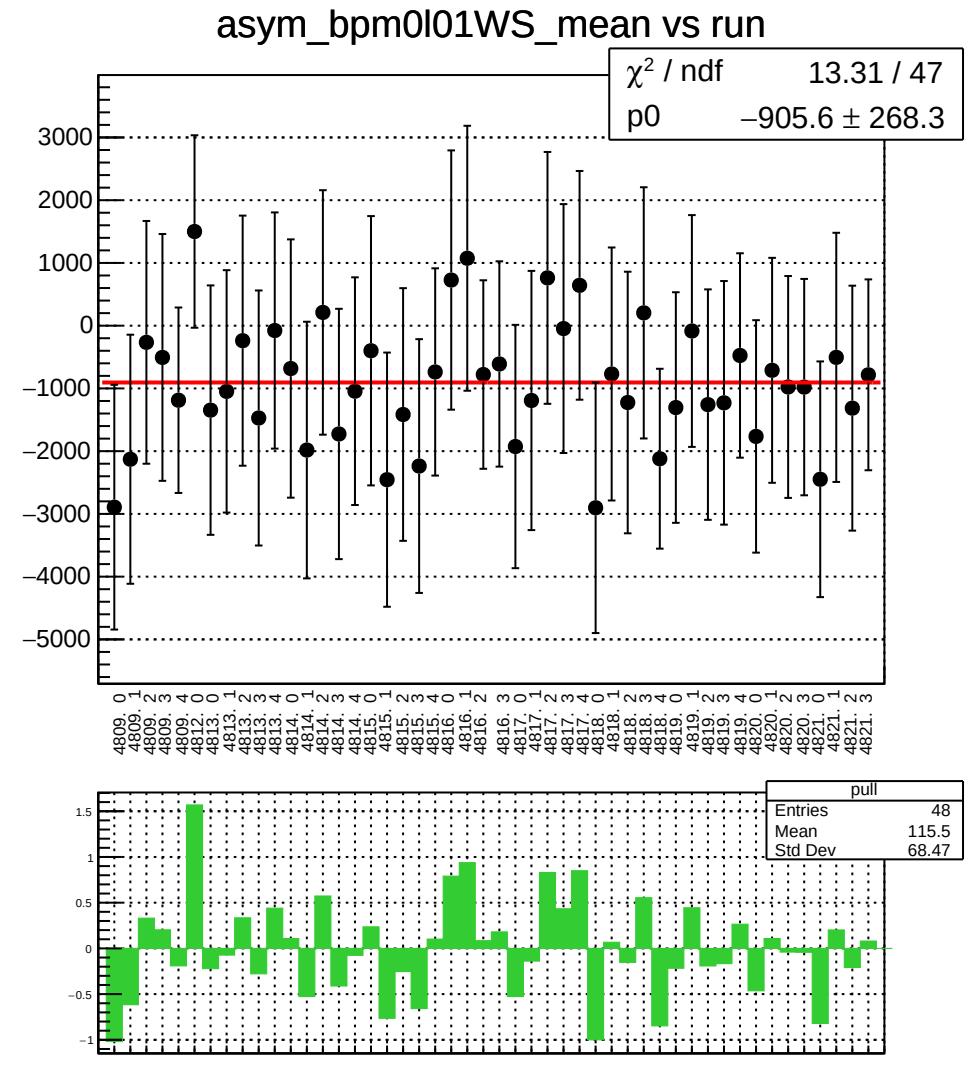

pull1D
Entries 48
Mean −0.5463
Std Dev 2.99
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

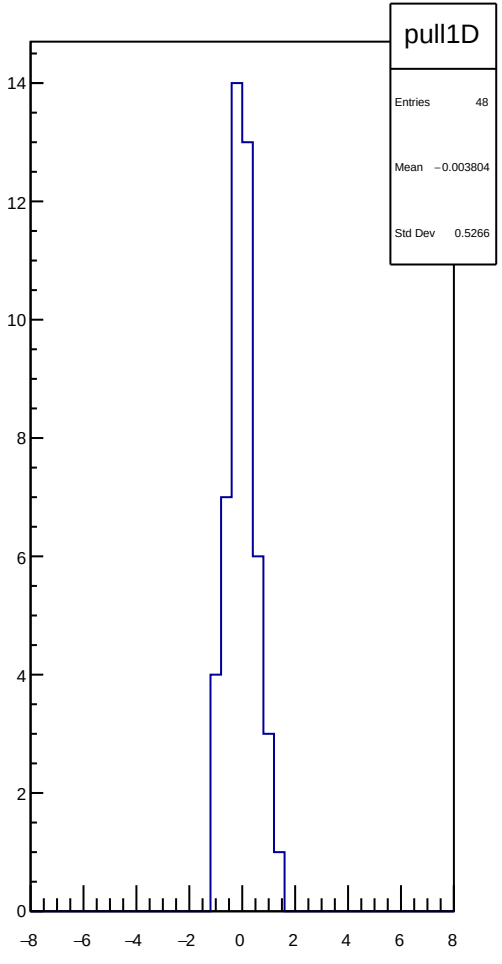

asym_bpm2i01WS_rms vs run
χ² / ndf 4971 / 47
p0 107.2 ± 0.1089
130
125
120
115
110
105
100
95
90
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

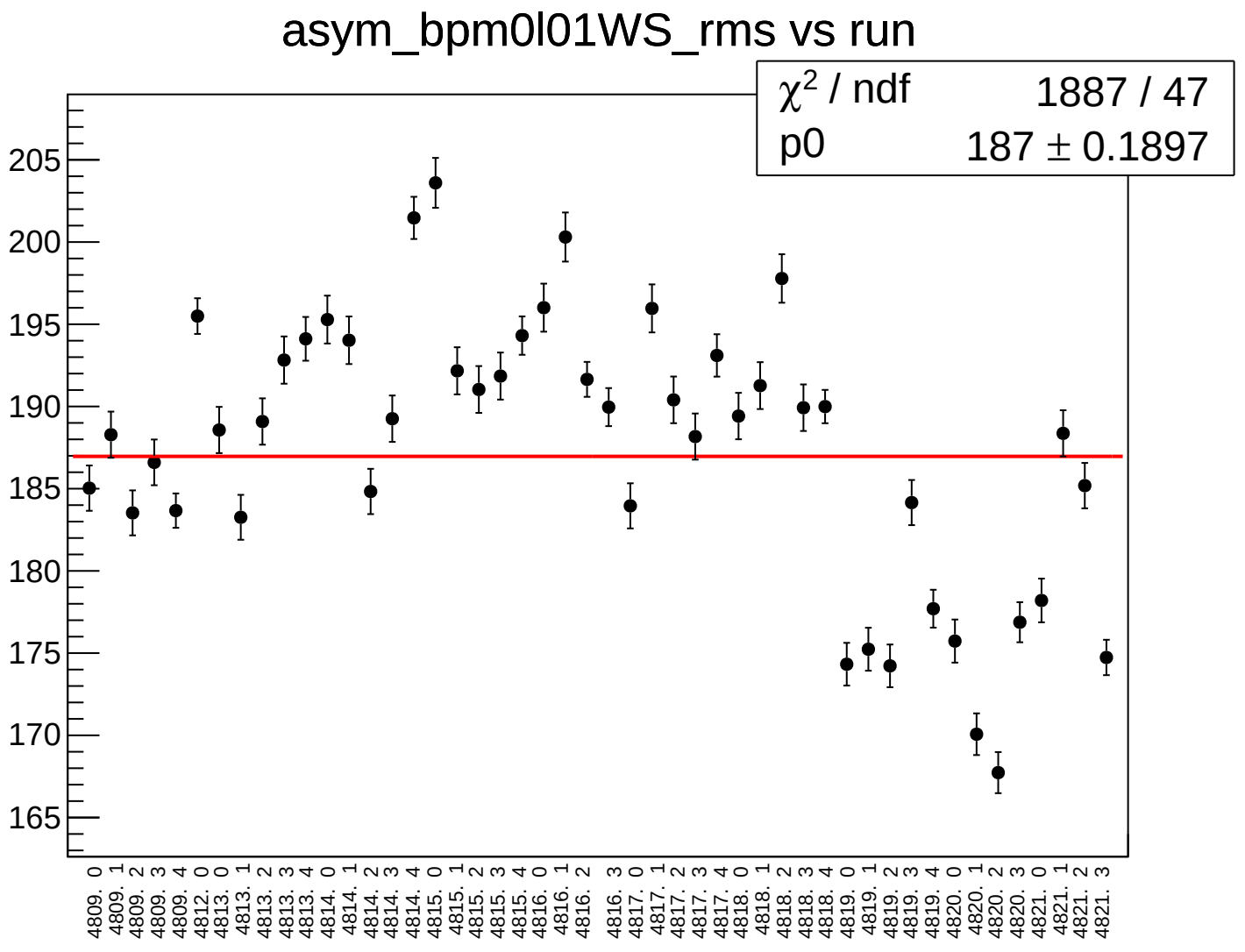

asym_bpm0i07WS_mean vs run
χ² / ndf 39.05 / 47
p0 −691 ± 371.1
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 409.3
Std Dev 382.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

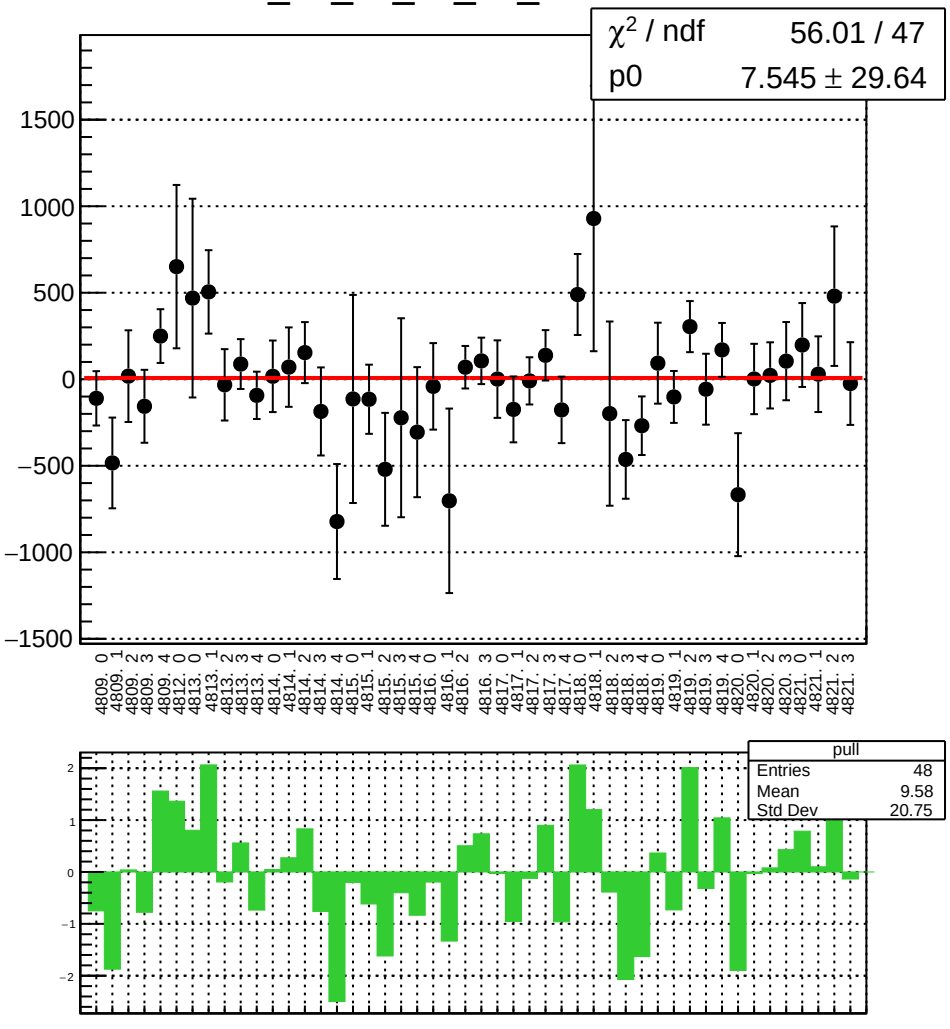

pull1D
Entries 48
Mean −0.005494
Std Dev 0.902
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

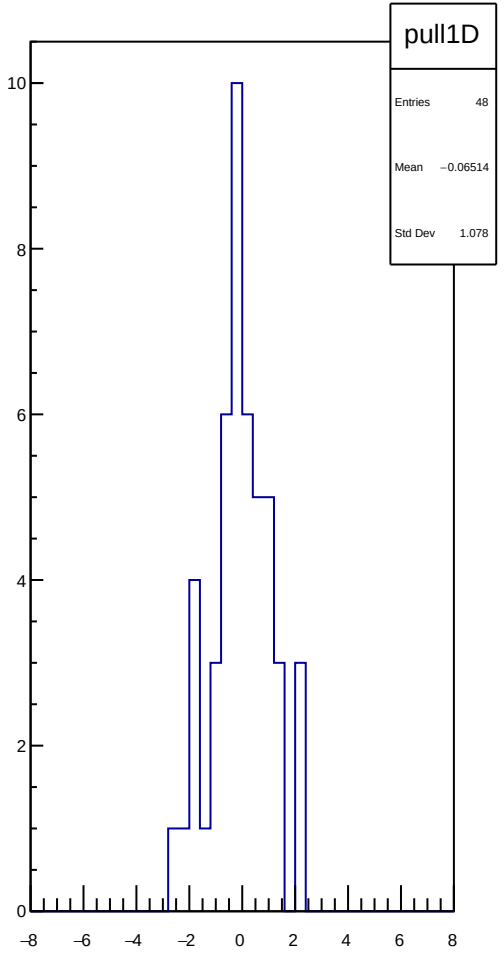

asym_bpm0i07WS_rms vs run
χ² / ndf 1713 / 47
p0 258.6 ± 0.2624
300
290
280
270
260
250
240
230
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

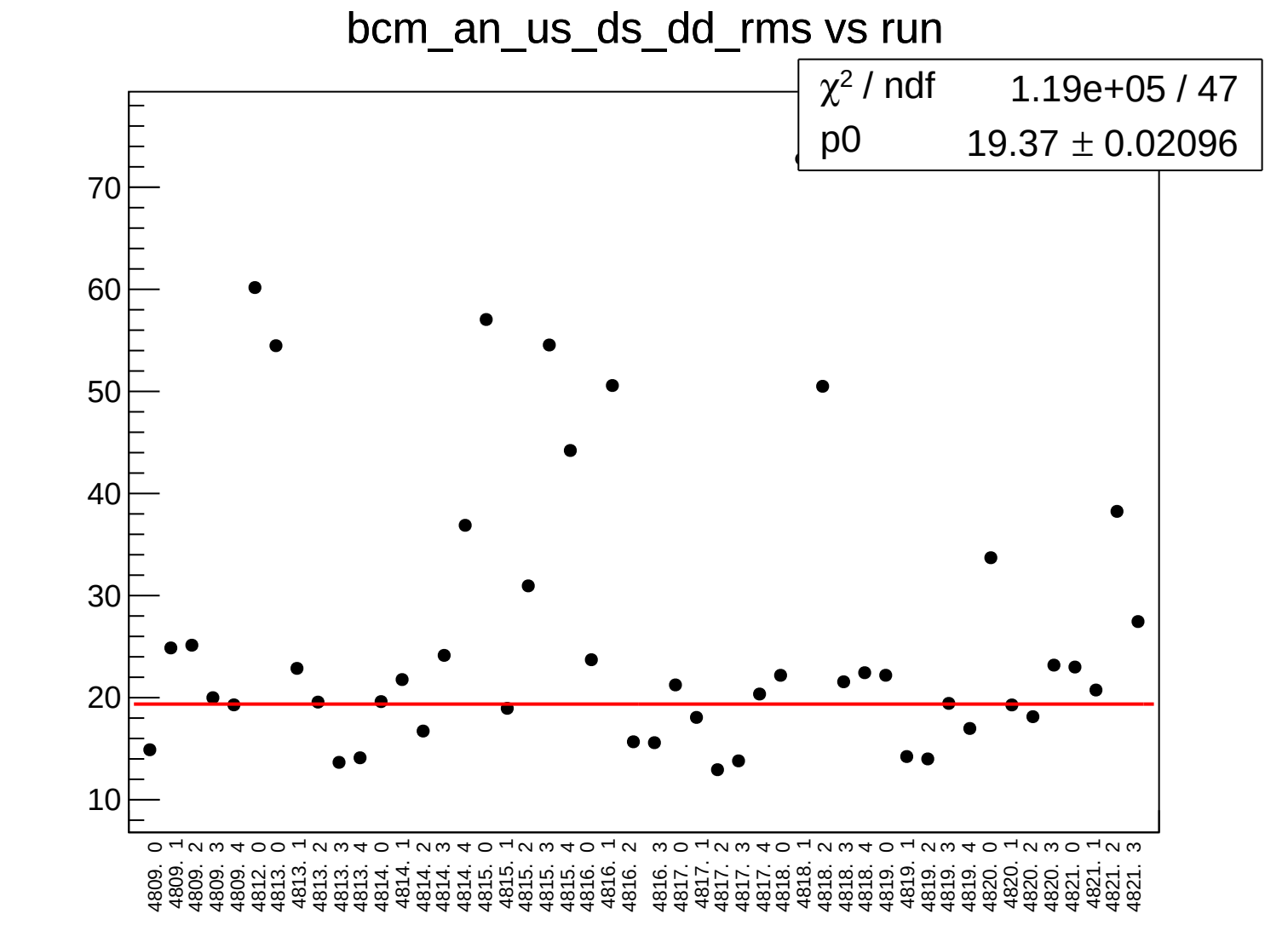

asym_bpm0l01WS_mean vs run
χ² / ndf 13.31 / 47
p0 −905.6 ± 268.3
pull
Entries 48
Mean 115.5
Std Dev 68.47


pull1D
Entries 48
Mean −0.003804
Std Dev 0.5266


asym_bpm0l01WS_rms vs run
χ² / ndf 1887 / 47
p0 187 ± 0.1897
205
200
195
190
185
180
175
170
165
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3


bcm_an_us_ds_dd_mean vs run
χ² / ndf 56.01 / 47
p0 7.545 ± 29.64
pull
Entries 48
Mean 9.58
Std Dev 20.75


pull1D
Entries 48
Mean −0.06514
Std Dev 1.078


bcm_an_us_ds_dd_rms vs run
χ² / ndf 1.19e+05 / 47
p0 19.37 ± 0.02096
70
60
50
40
30
20
10
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
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4820. 0
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4821. 0
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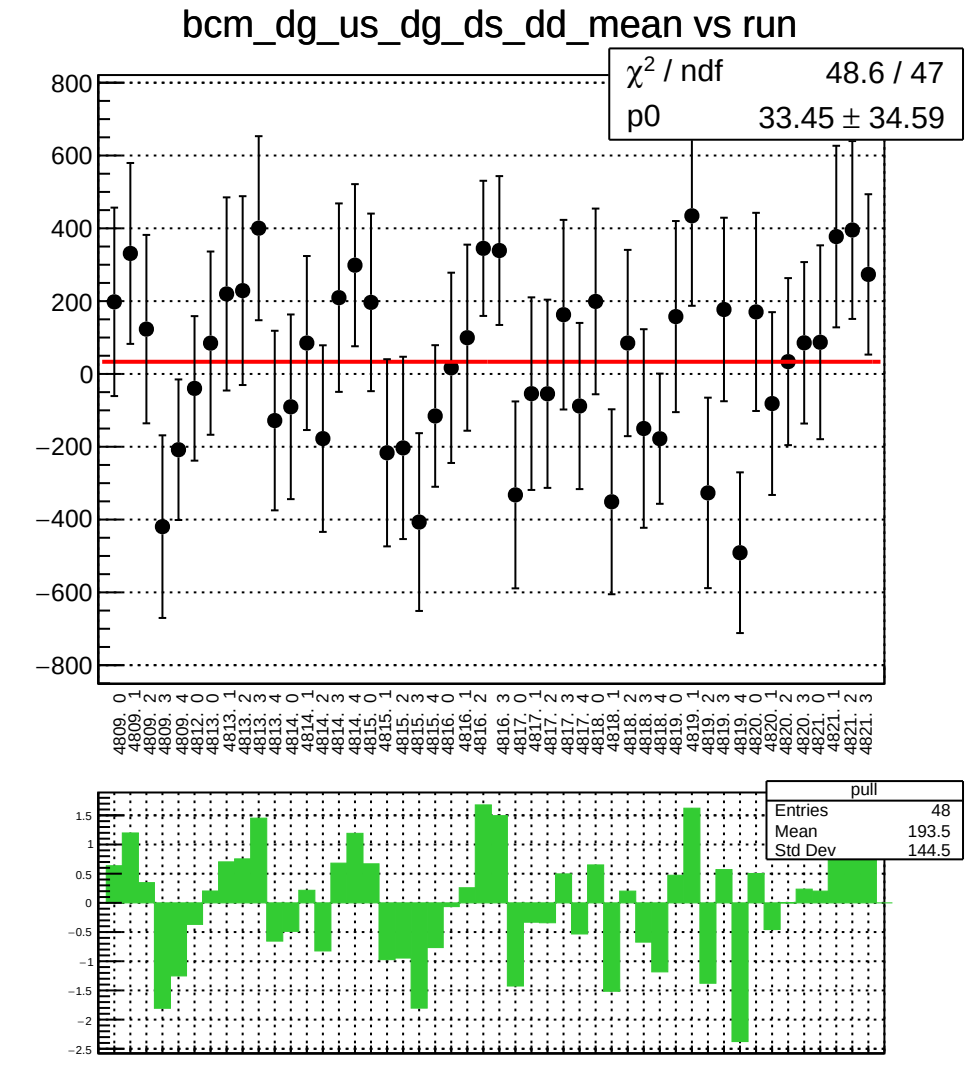
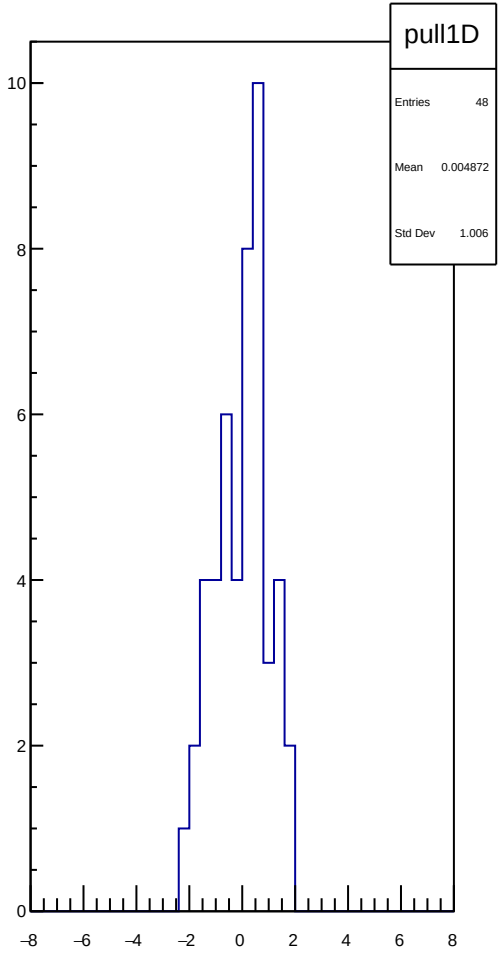
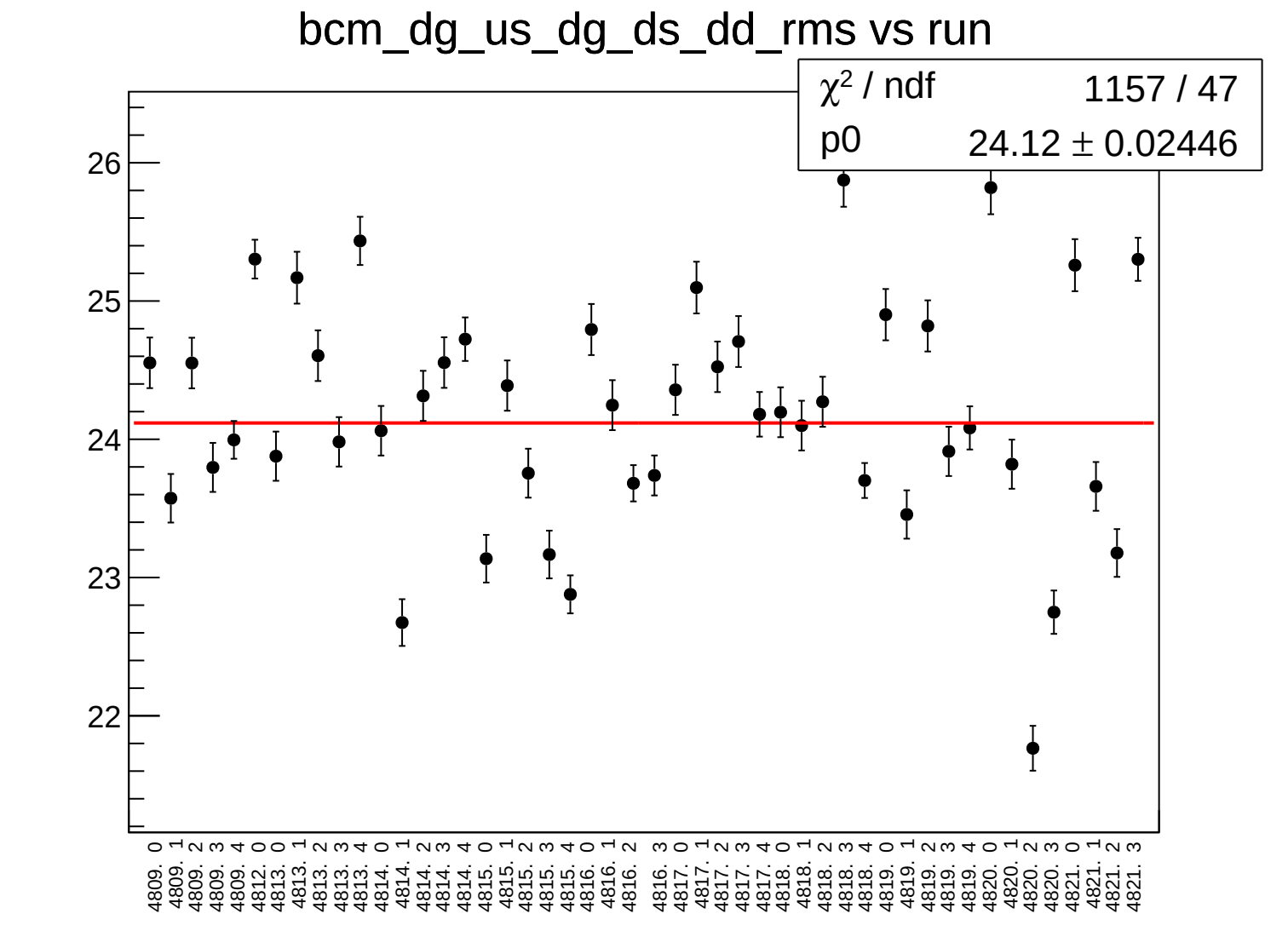
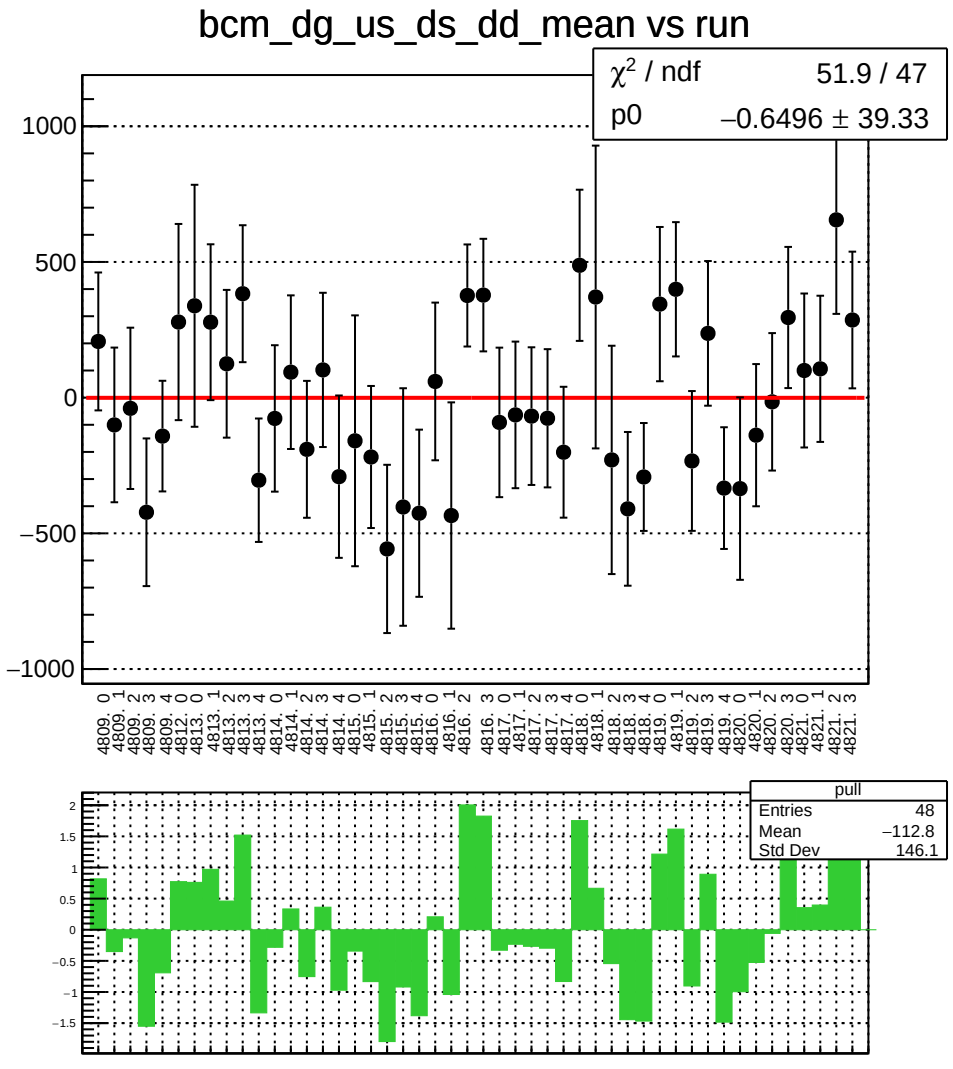
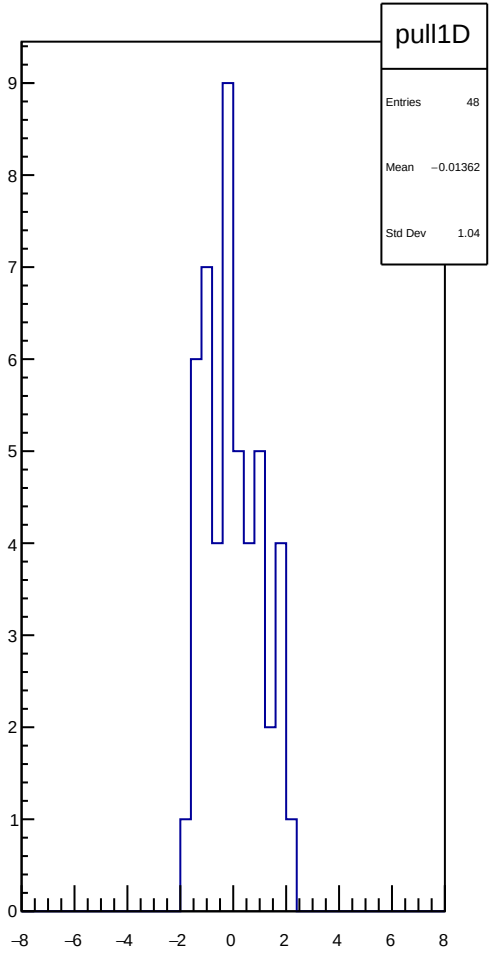
4821. 2
4821. 3

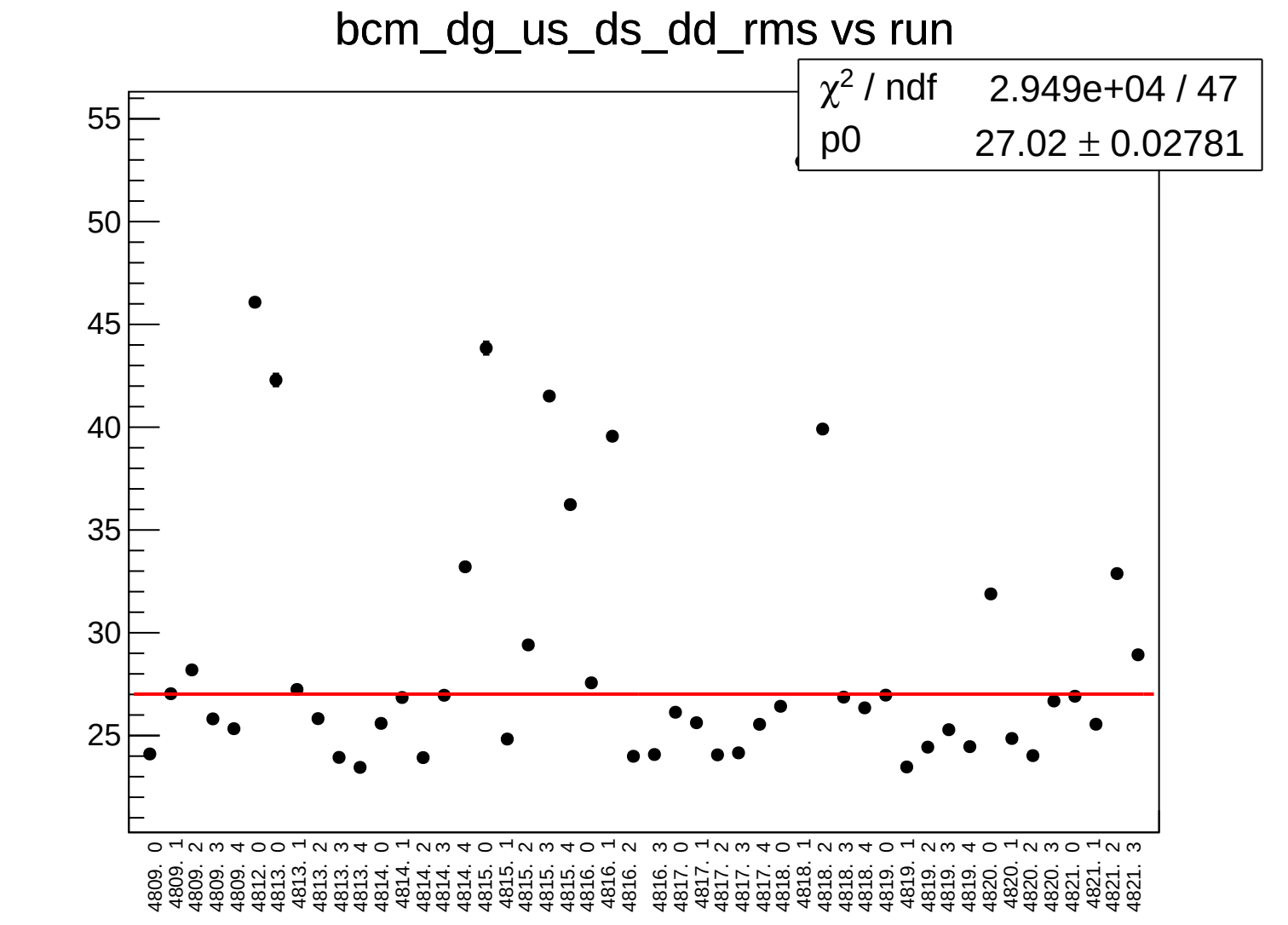

bcm_dg_us_dg_ds_dd_mean vs run
χ² / ndf 48.6 / 47
p0 33.45 ± 34.59
pull
Entries 48
Mean 193.5
Std Dev 144.5

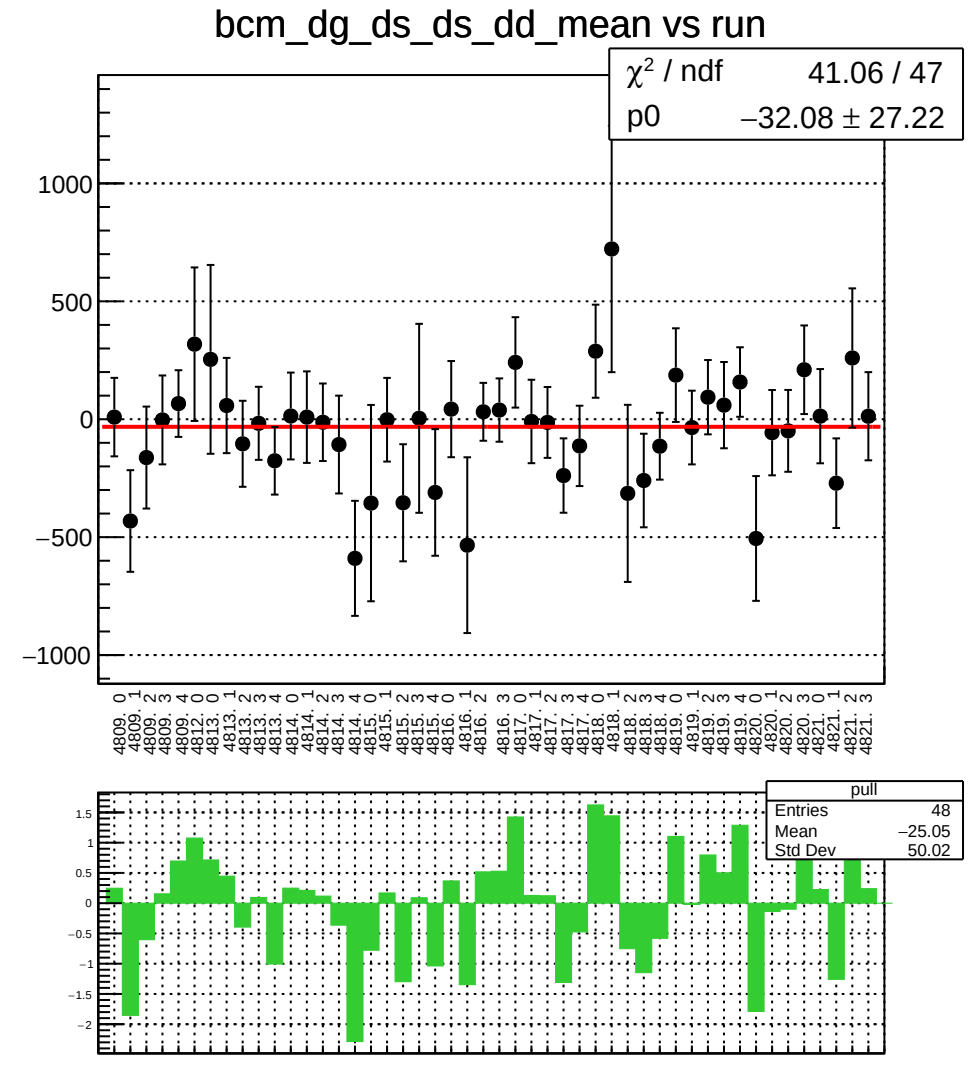

pull1D
Entries 48
Mean 0.004872
Std Dev 1.006

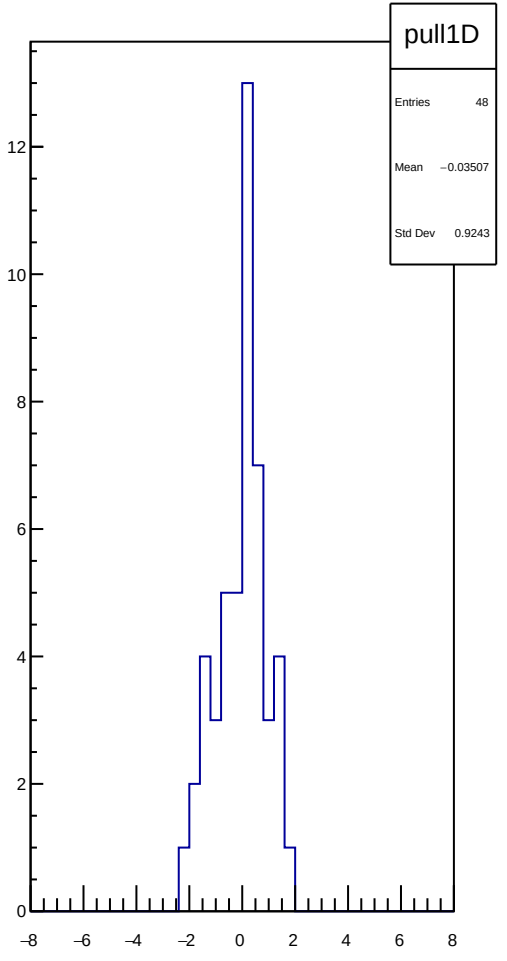

bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 1157 / 47
p0 24.12 ± 0.02446
26
25
24
23
22
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

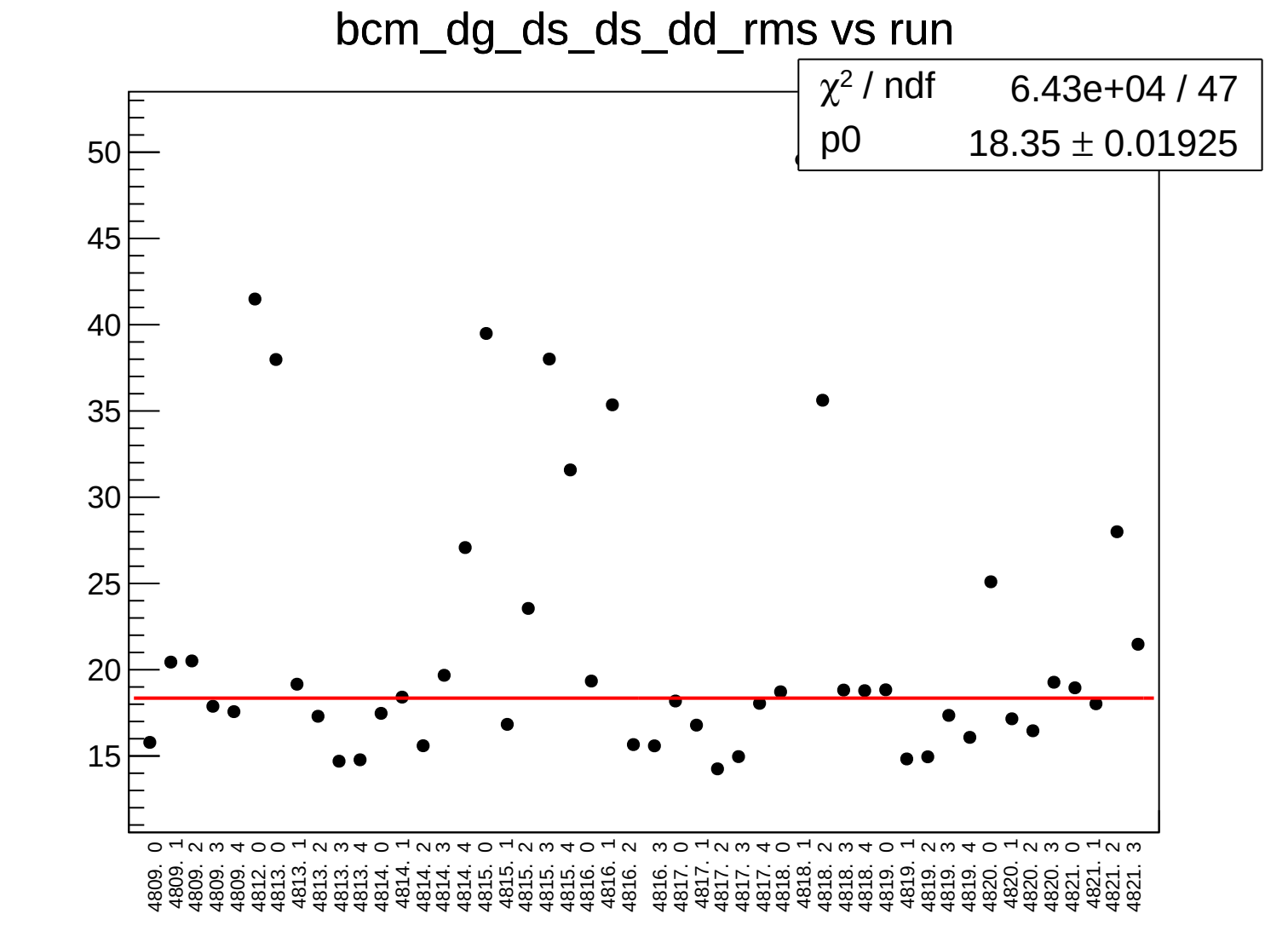

bcm_dg_us_ds_dd_mean vs run
χ² / ndf 51.9 / 47
p0 −0.6496 ± 39.33
1000
500
0
−500
−1000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean −112.8
Std Dev 146.1
2
1.5
1
0.5
0
−0.5
−1
−1.5

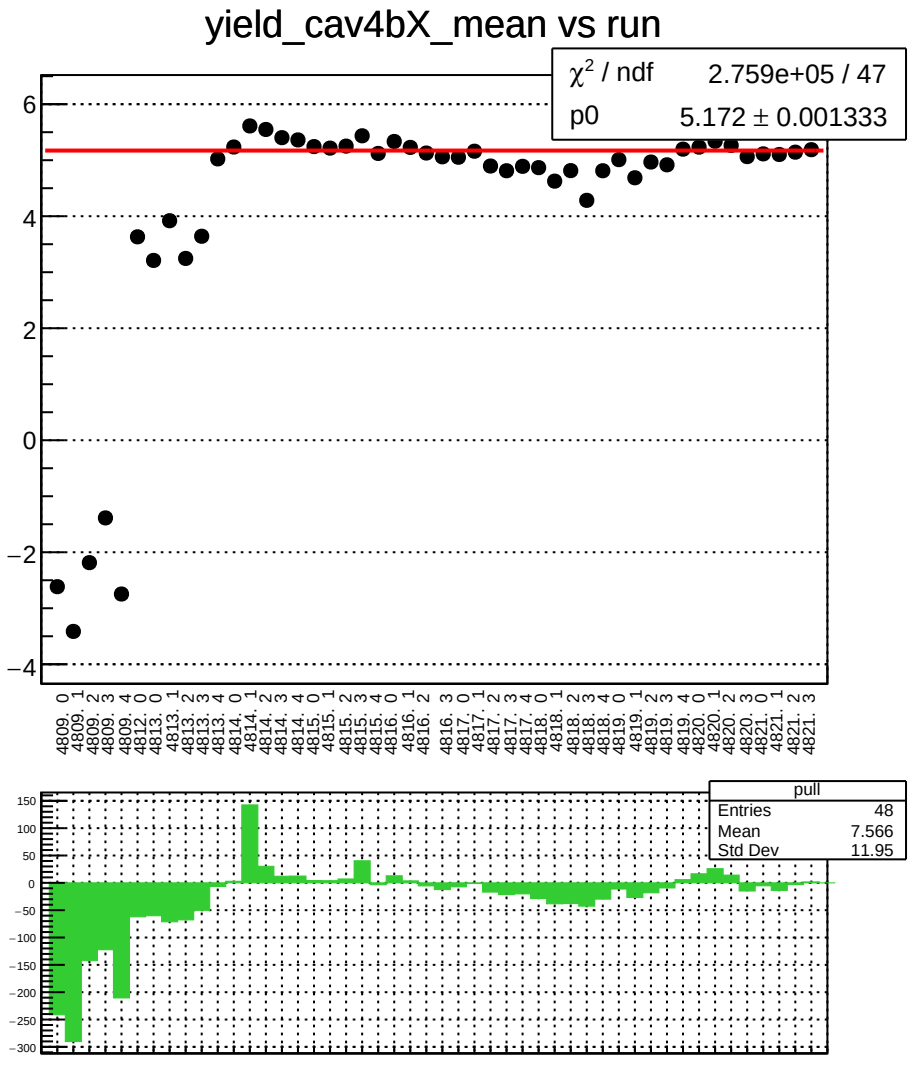

pull1D
Entries 48
Mean −0.01362
Std Dev 1.04
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

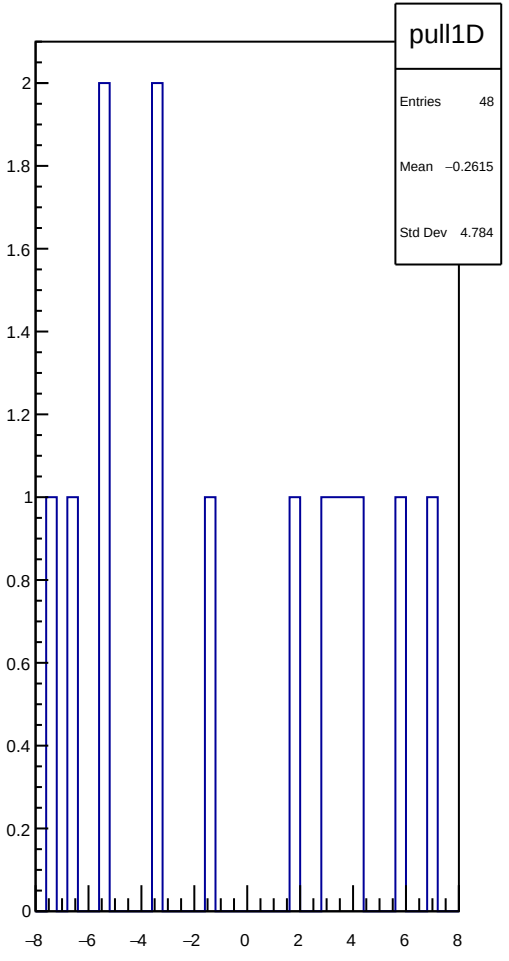

bcm_dg_us_ds_dd_rms vs run
χ² / ndf 2.949e+04 / 47
p0 27.02 ± 0.02781
55
50
45
40
35
30
25
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

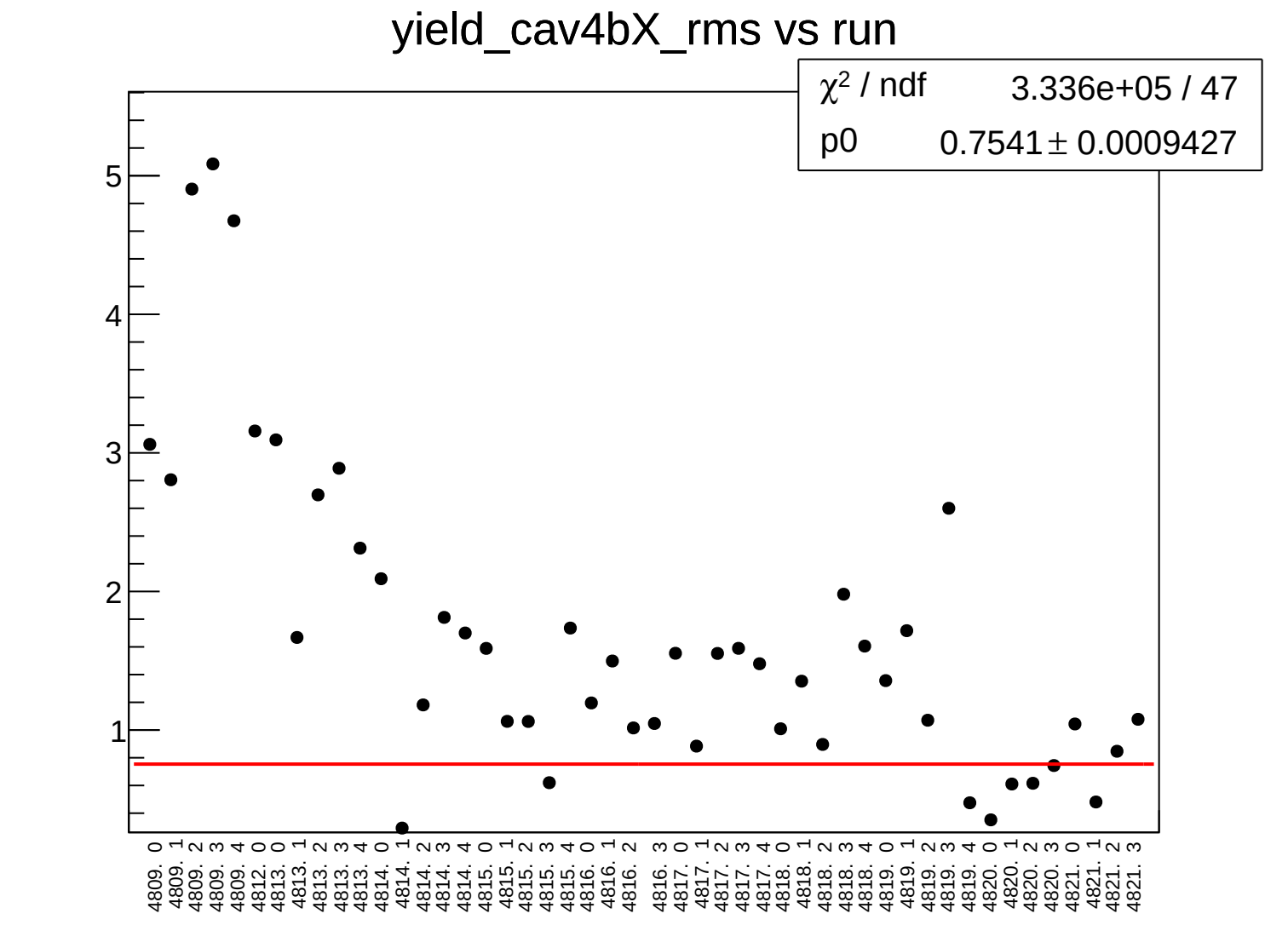

bcm_dg_ds_ds_dd_mean vs run
χ² / ndf 41.06 / 47
p0 −32.08 ± 27.22
1000
500
0
−500
−1000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean −25.05
Std Dev 50.02
1.5
1
0.5
0
−0.5
−1
−1.5
−2

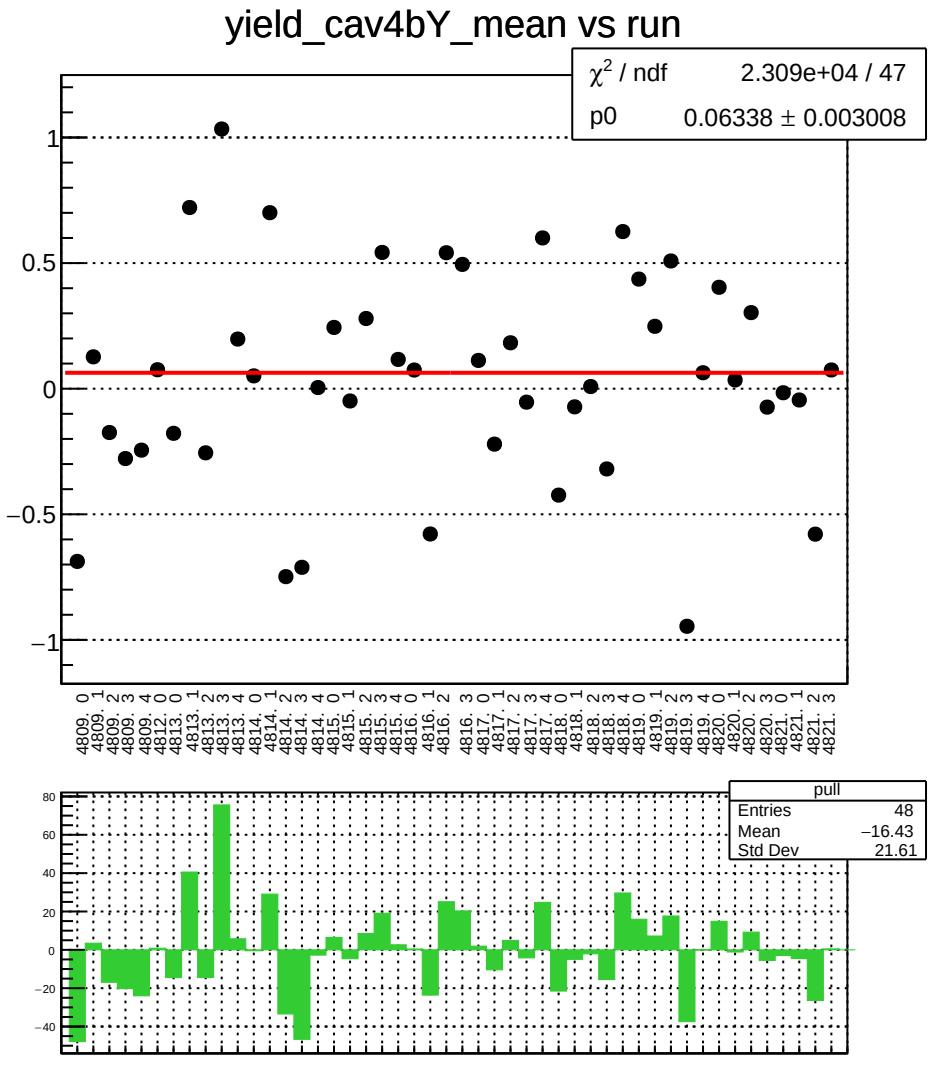

pull1D
Entries 48
Mean −0.03507
Std Dev 0.9243
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

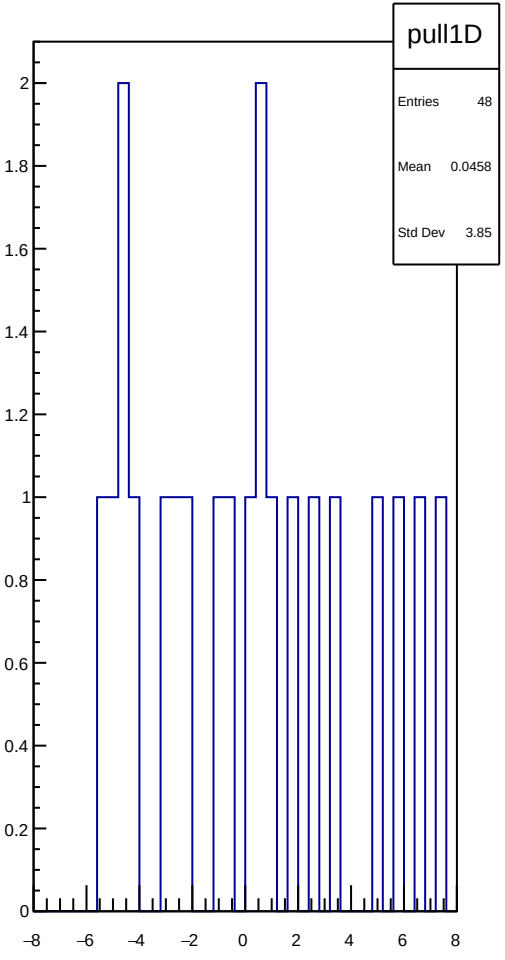

bcm_dg_ds_ds_dd_rms vs run
χ² / ndf 6.43e+04 / 47
p0 18.35 ± 0.01925
50
45
40
35
30
25
20
15
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

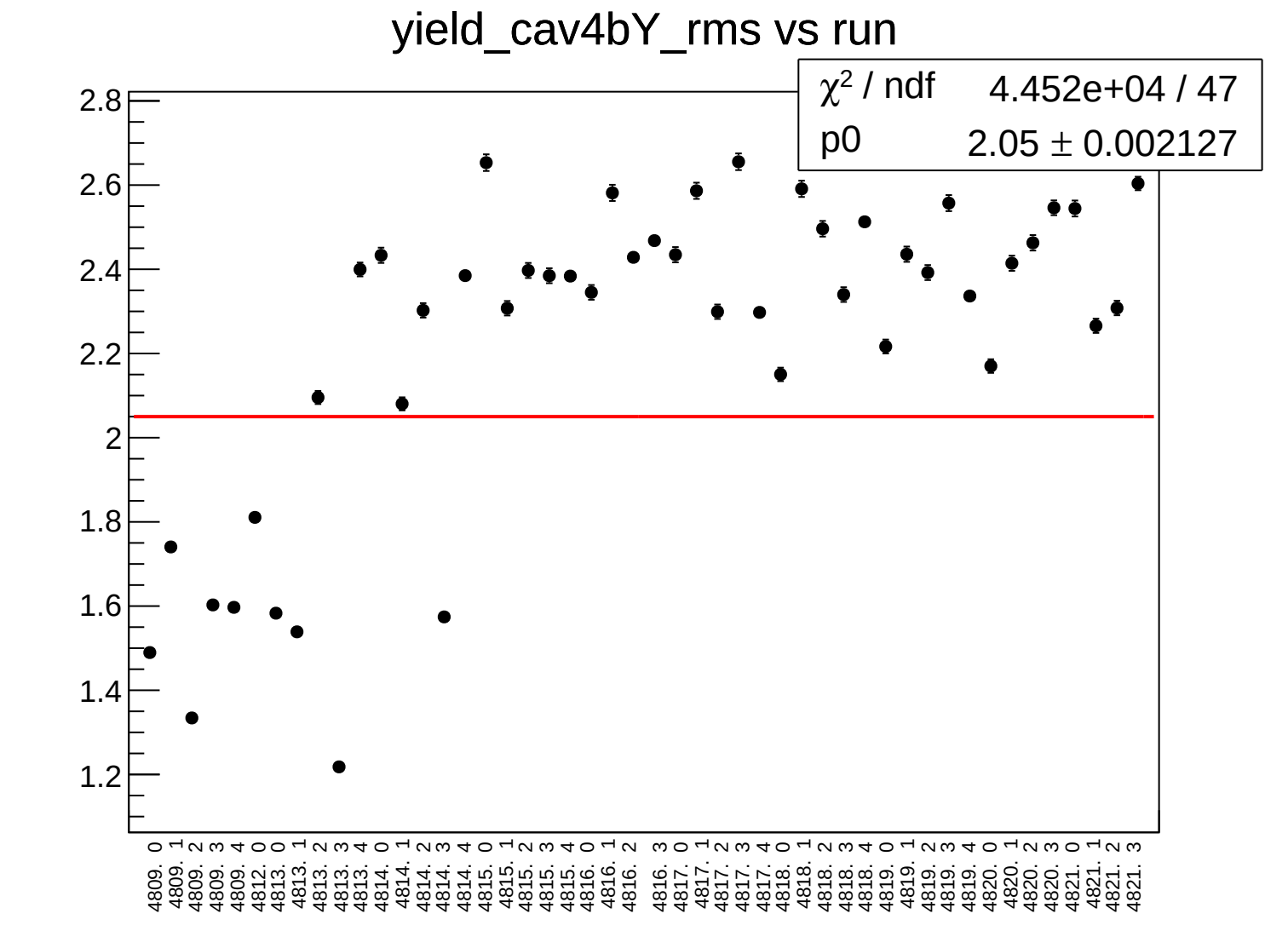

yield_cav4bX_mean vs run
χ² / ndf 2.759e+05 / 47
p0 5.172 ± 0.001333
pull
Entries 48
Mean 7.566
Std Dev 11.95

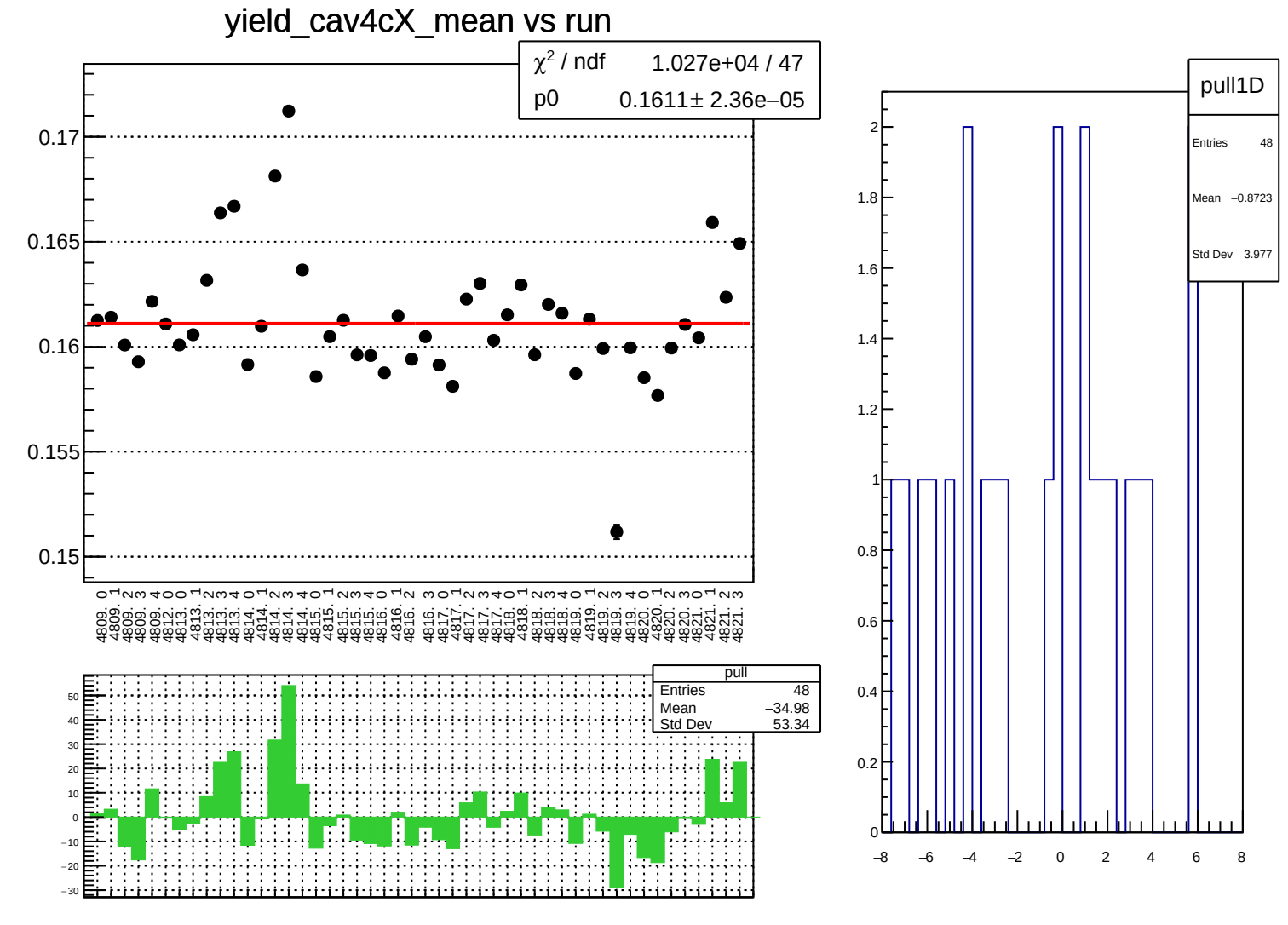

pull1D
Entries 48
Mean −0.2615
Std Dev 4.784

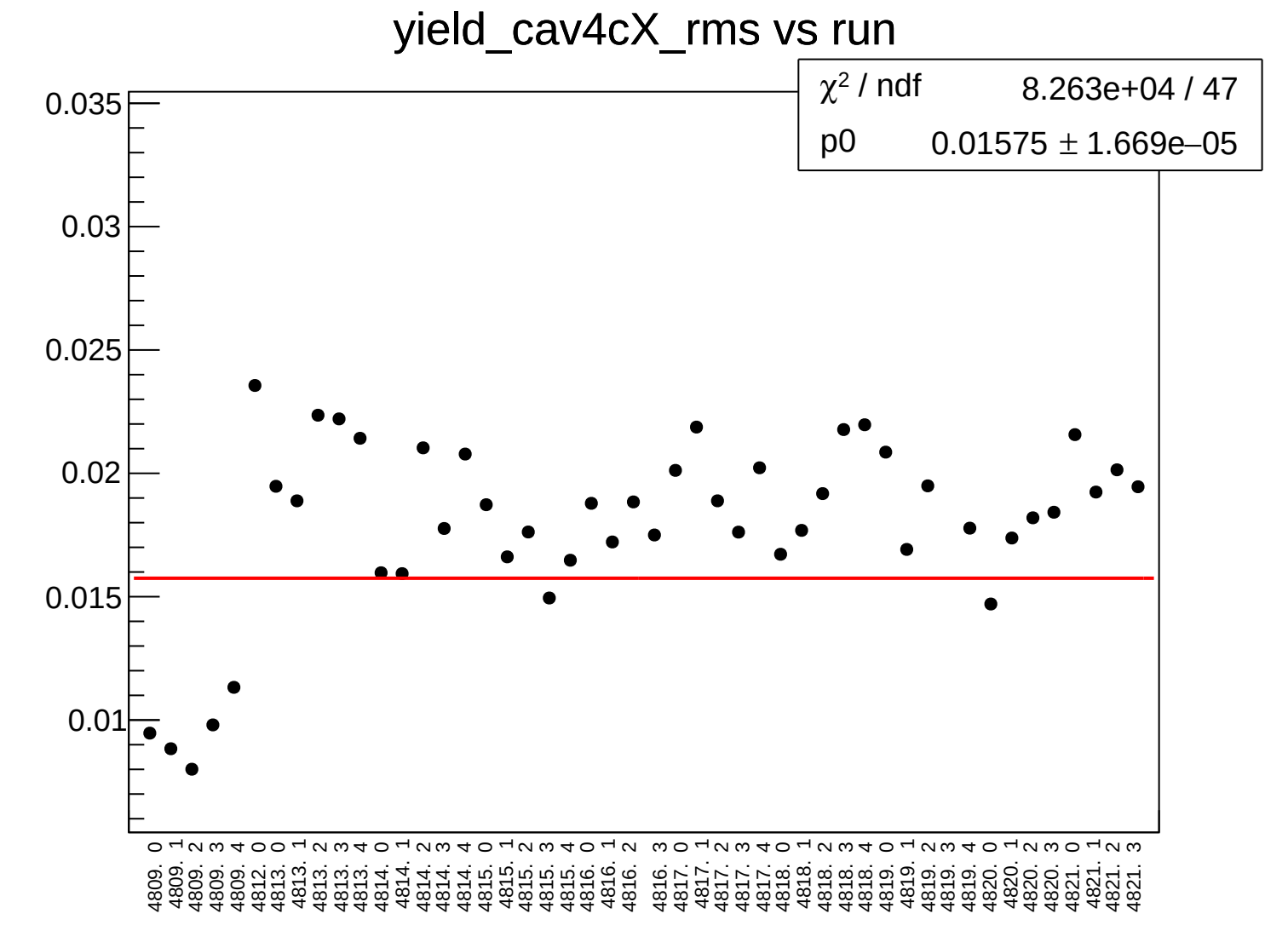

yield_cav4bX_rms vs run
χ² / ndf 3.336e+05 / 47
p0 0.7541 ± 0.0009427
5
4
3
2
1
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

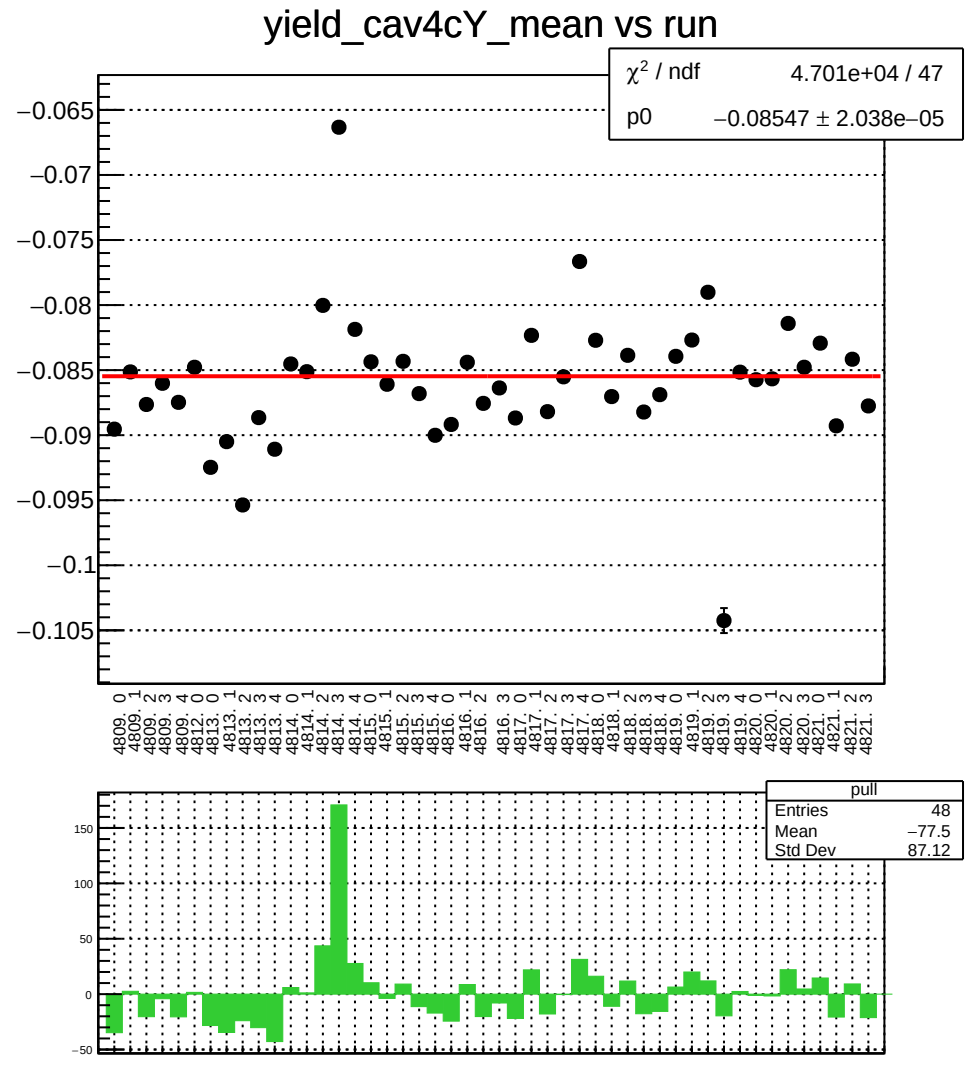

yield_cav4bY_mean vs run
χ² / ndf 2.309e+04 / 47
p0 0.06338 ± 0.003008
pull
Entries 48
Mean −16.43
Std Dev 21.61

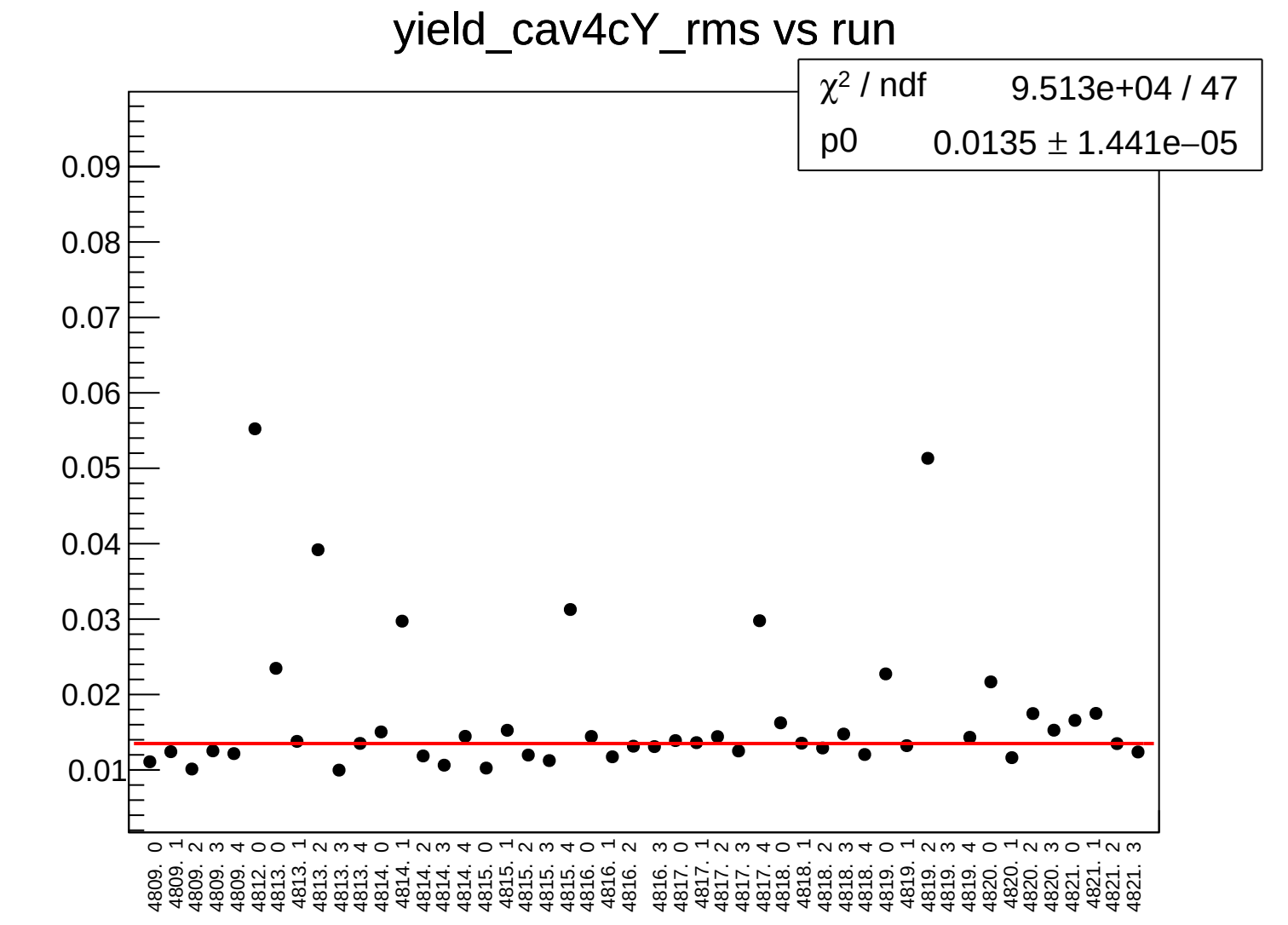

pull1D
Entries 48
Mean 0.0458
Std Dev 3.85

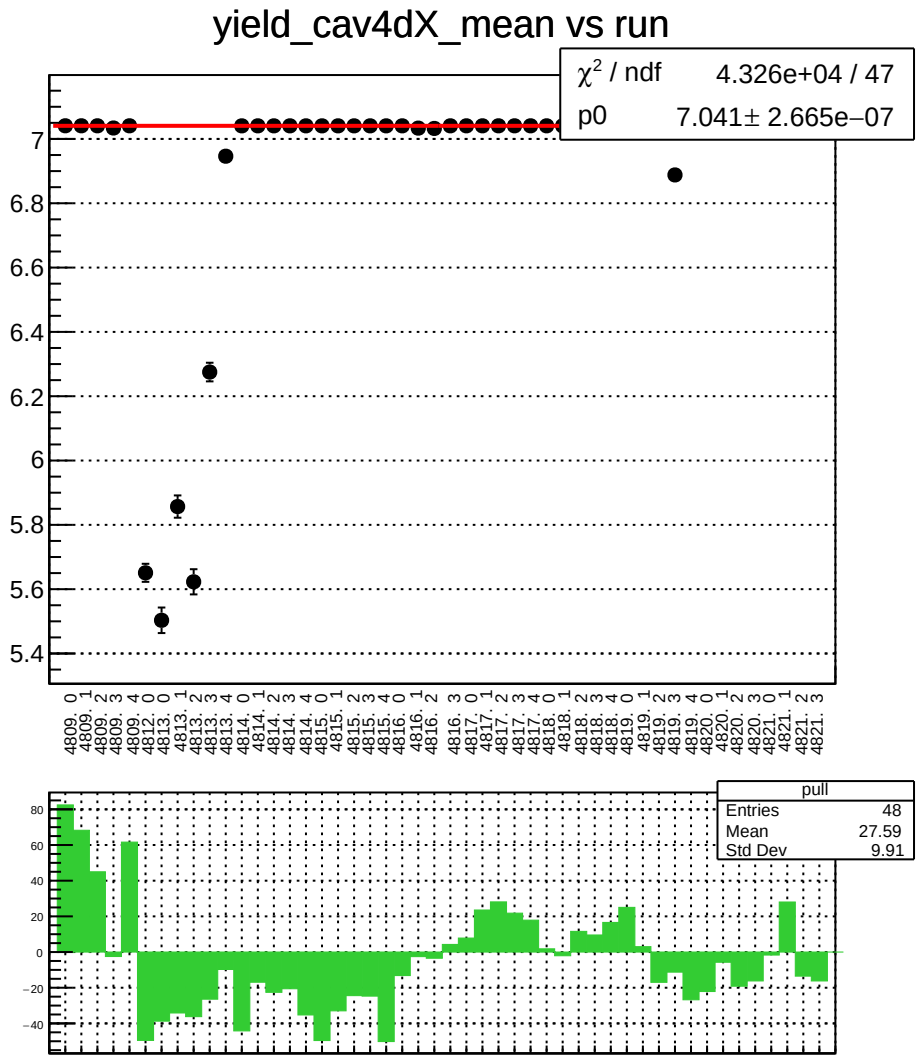

yield_cav4bY_rms vs run
χ² / ndf 4.452e+04 / 47
p0 2.05 ± 0.002127
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

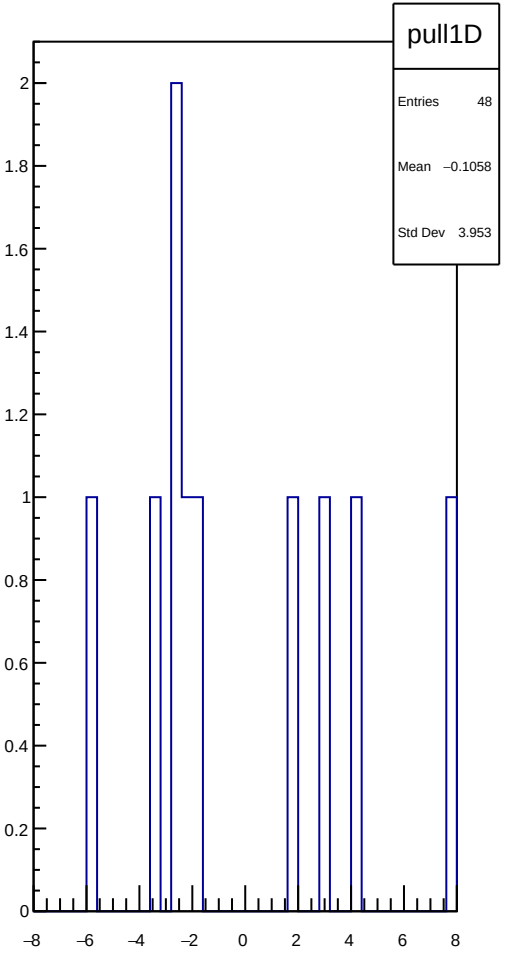

yield_cav4cX_mean vs run
χ² / ndf 1.027e+04 / 47
p0 0.1611± 2.36e−05
0.17
0.165
0.16
0.155
0.15
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean −34.98
Std Dev 53.34
50
40
30
20
10
0
−10
−20
−30
pull1D
Entries 48
Mean −0.8723
Std Dev 3.977
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

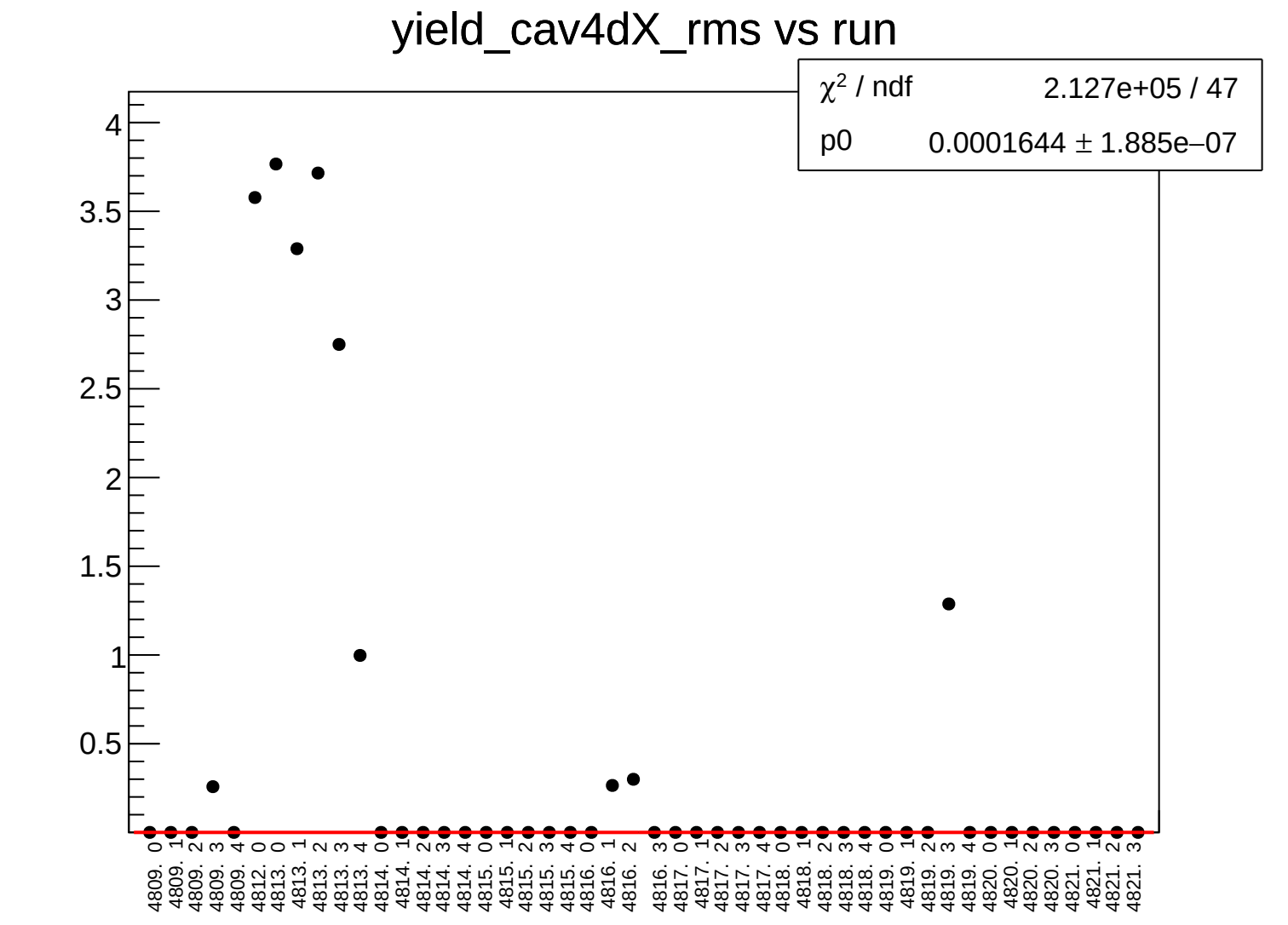

yield_cav4cX_rms vs run
χ² / ndf 8.263e+04 / 47
p0 0.01575 ± 1.669e–05
0.035
0.03
0.025
0.02
0.015
0.01
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

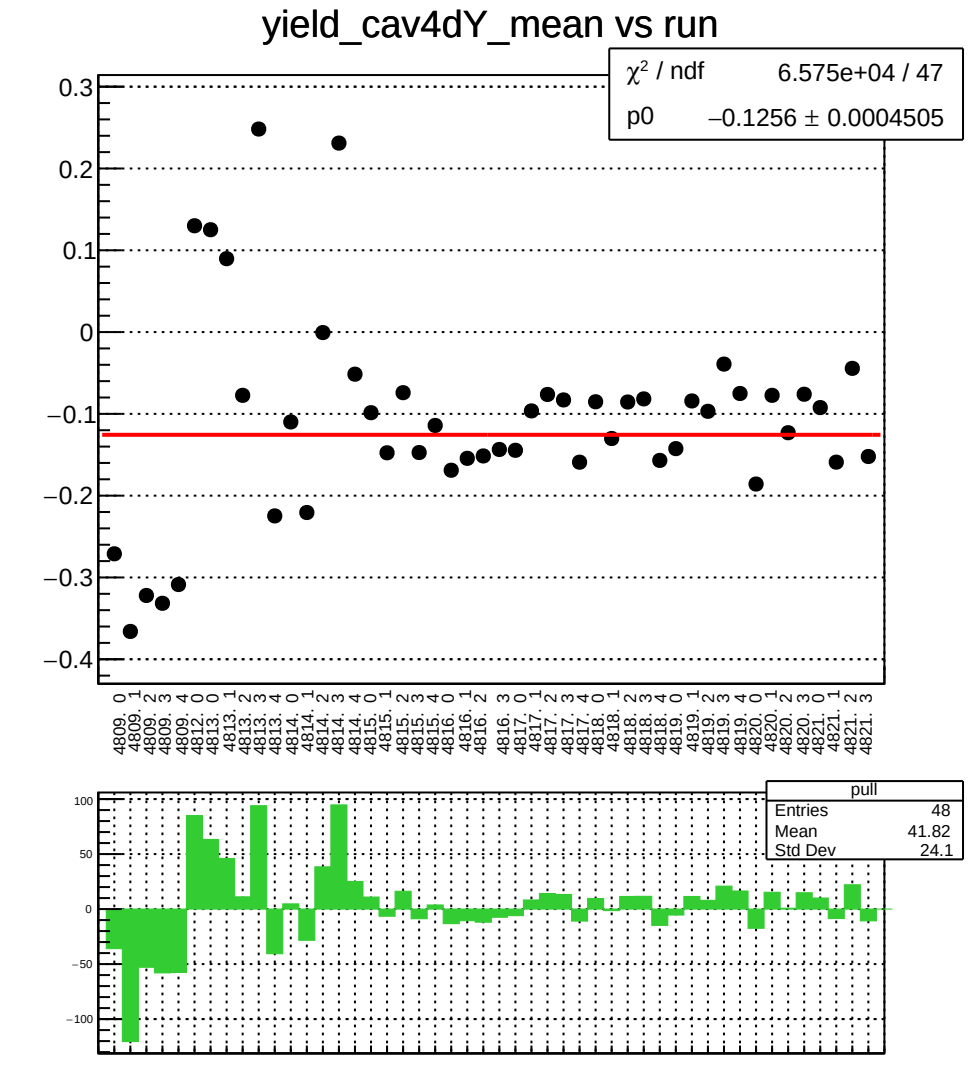

yield_cav4cY_mean vs run
χ² / ndf 4.701e+04 / 47
p0 −0.08547 ± 2.038e−05
−0.065
−0.07
−0.075
−0.08
−0.085
−0.09
−0.095
−0.1
−0.105
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean −77.5
Std Dev 87.12
150
100
50
0
−50
pull1D
Entries 48
Mean 0.4326
Std Dev 4.024
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

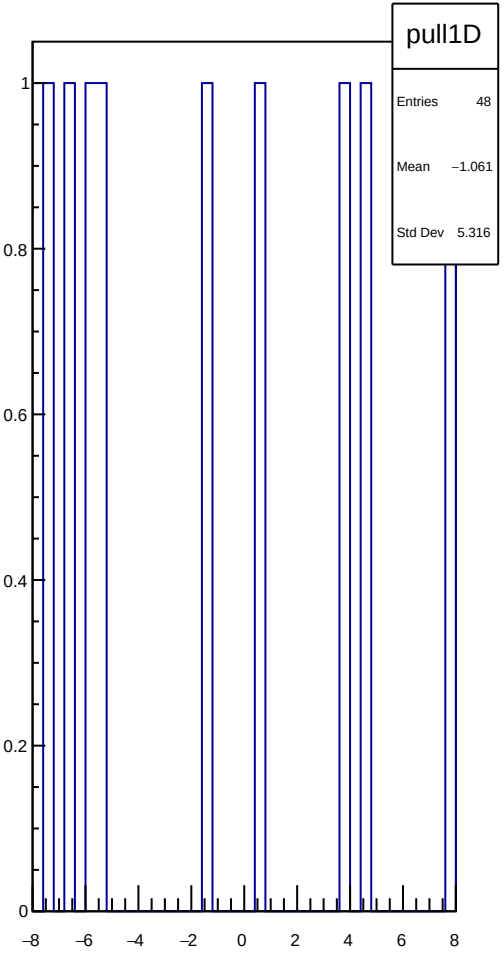

yield_cav4cY_rms vs run
χ² / ndf 9.513e+04 / 47
p0 0.0135 ± 1.441e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

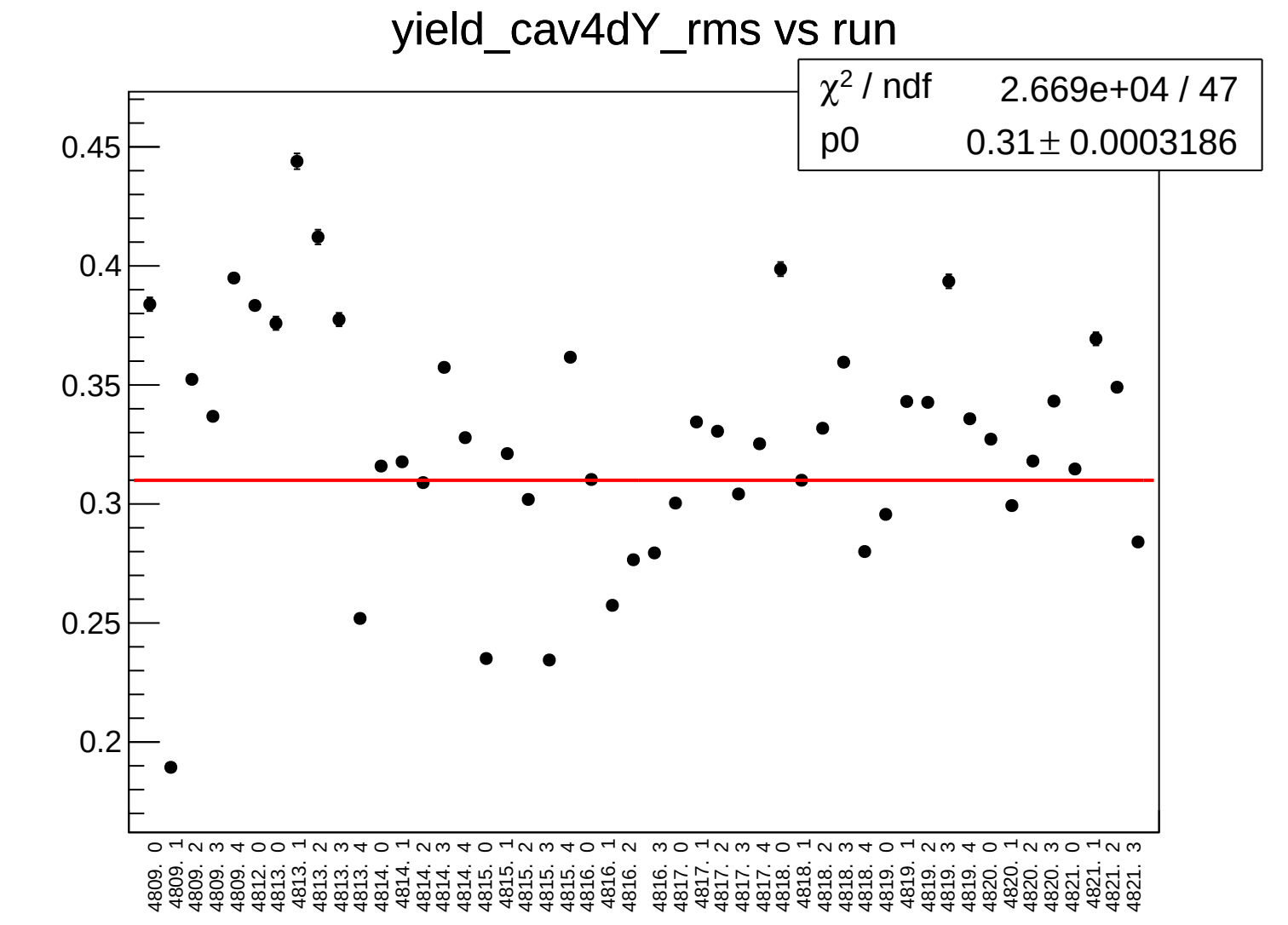

yield_cav4dX_mean vs run
χ² / ndf 4.326e+04 / 47
p0 7.041± 2.665e−07
pull
Entries 48
Mean 27.59
Std Dev 9.91

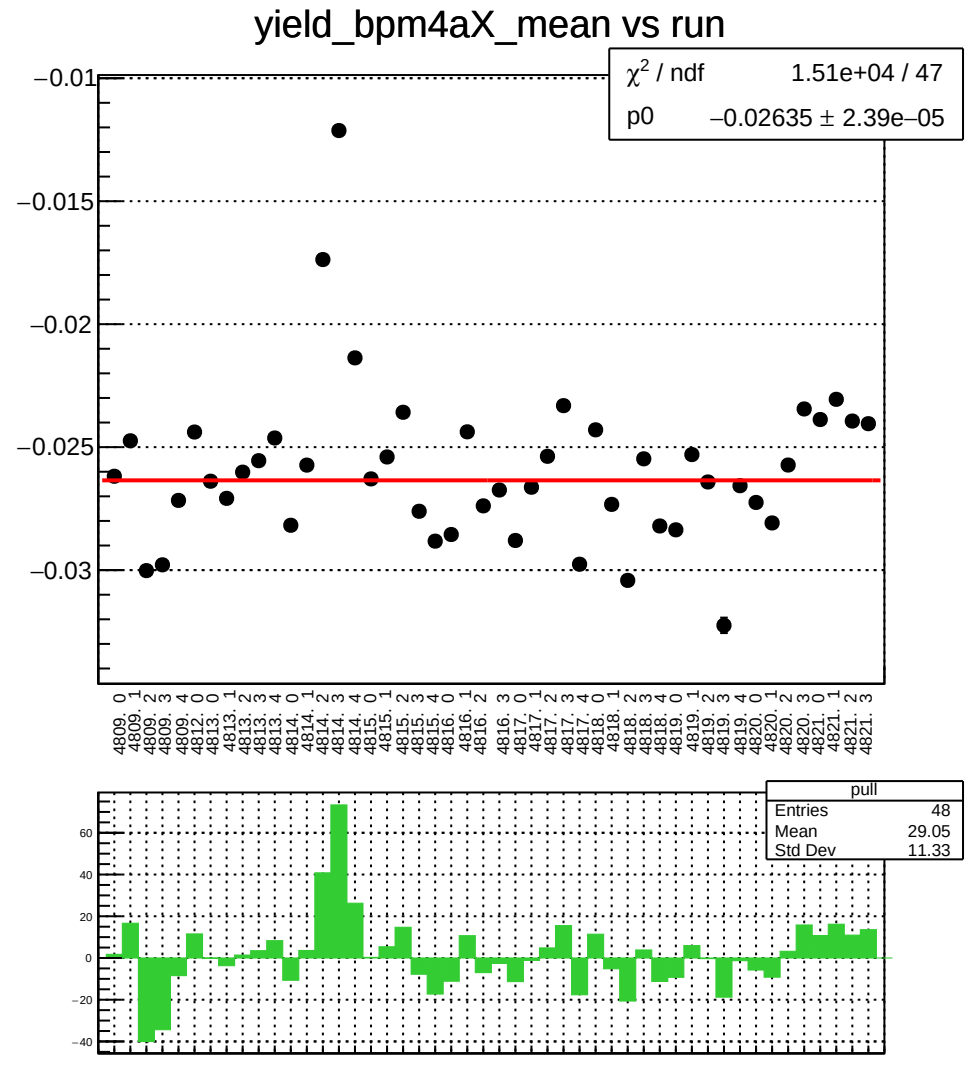

pull1D
Entries 48
Mean −0.1058
Std Dev 3.953

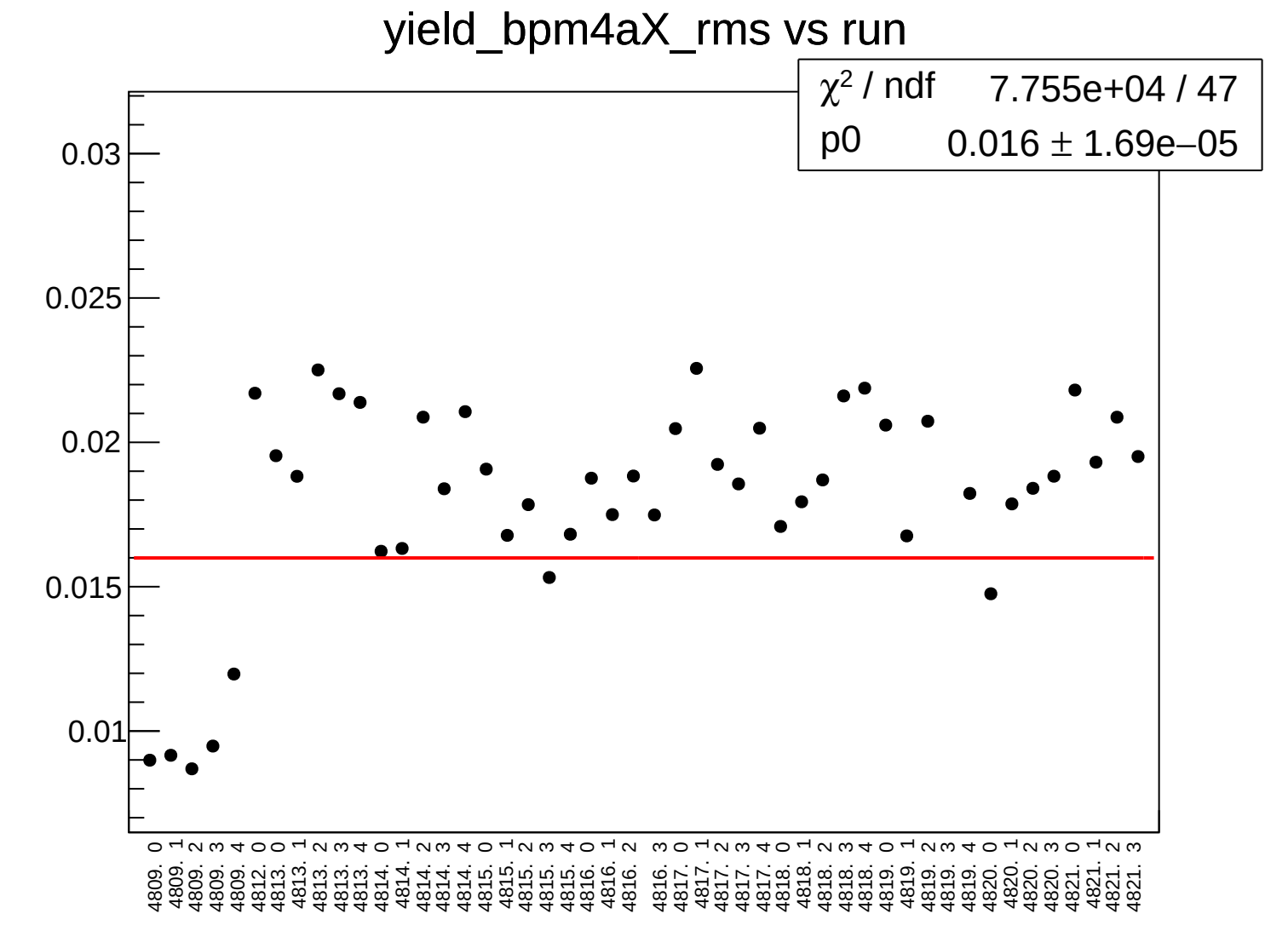

yield_cav4dX_rms vs run
χ² / ndf 2.127e+05 / 47
p0 0.0001644 ± 1.885e−07
4
3.5
3
2.5
2
1.5
1
0.5
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

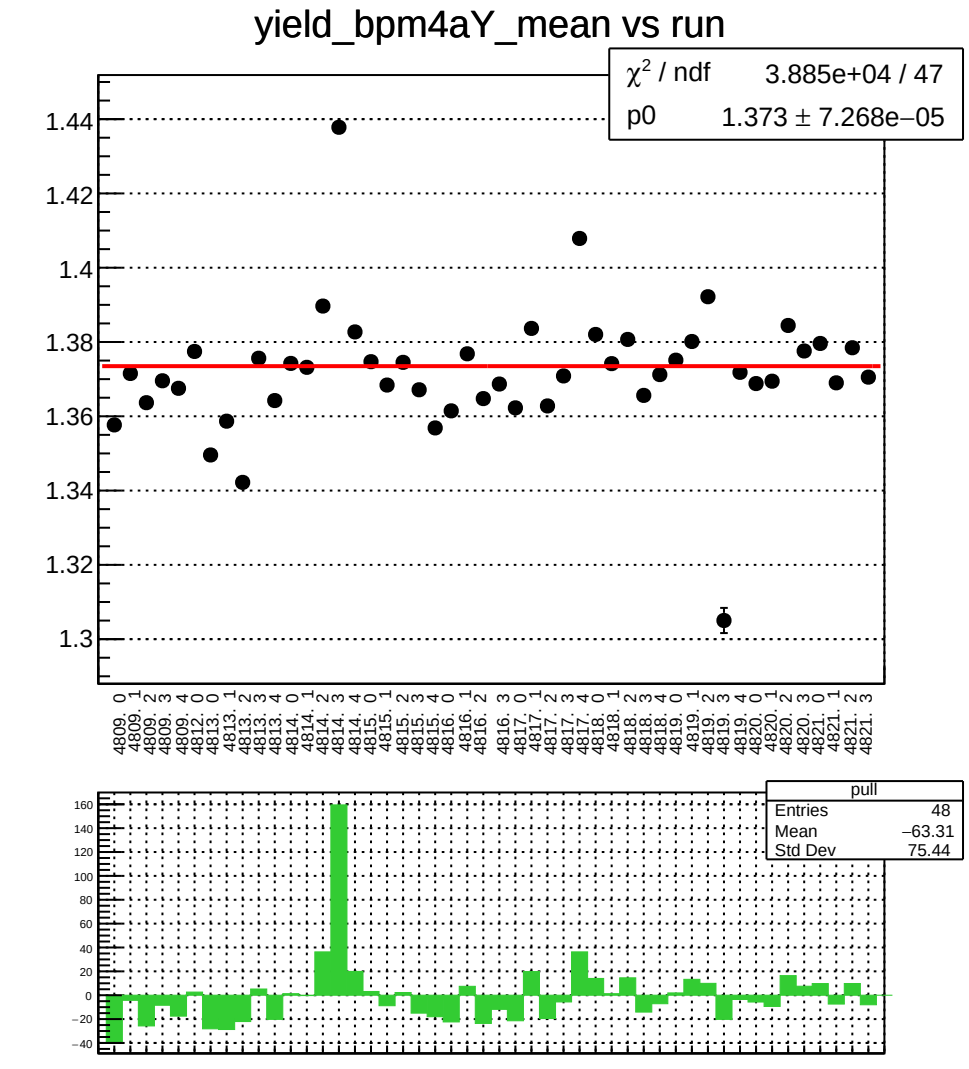

yield_cav4dY_mean vs run
χ² / ndf 6.575e+04 / 47
p0 −0.1256 ± 0.0004505
pull
Entries 48
Mean 41.82
Std Dev 24.1

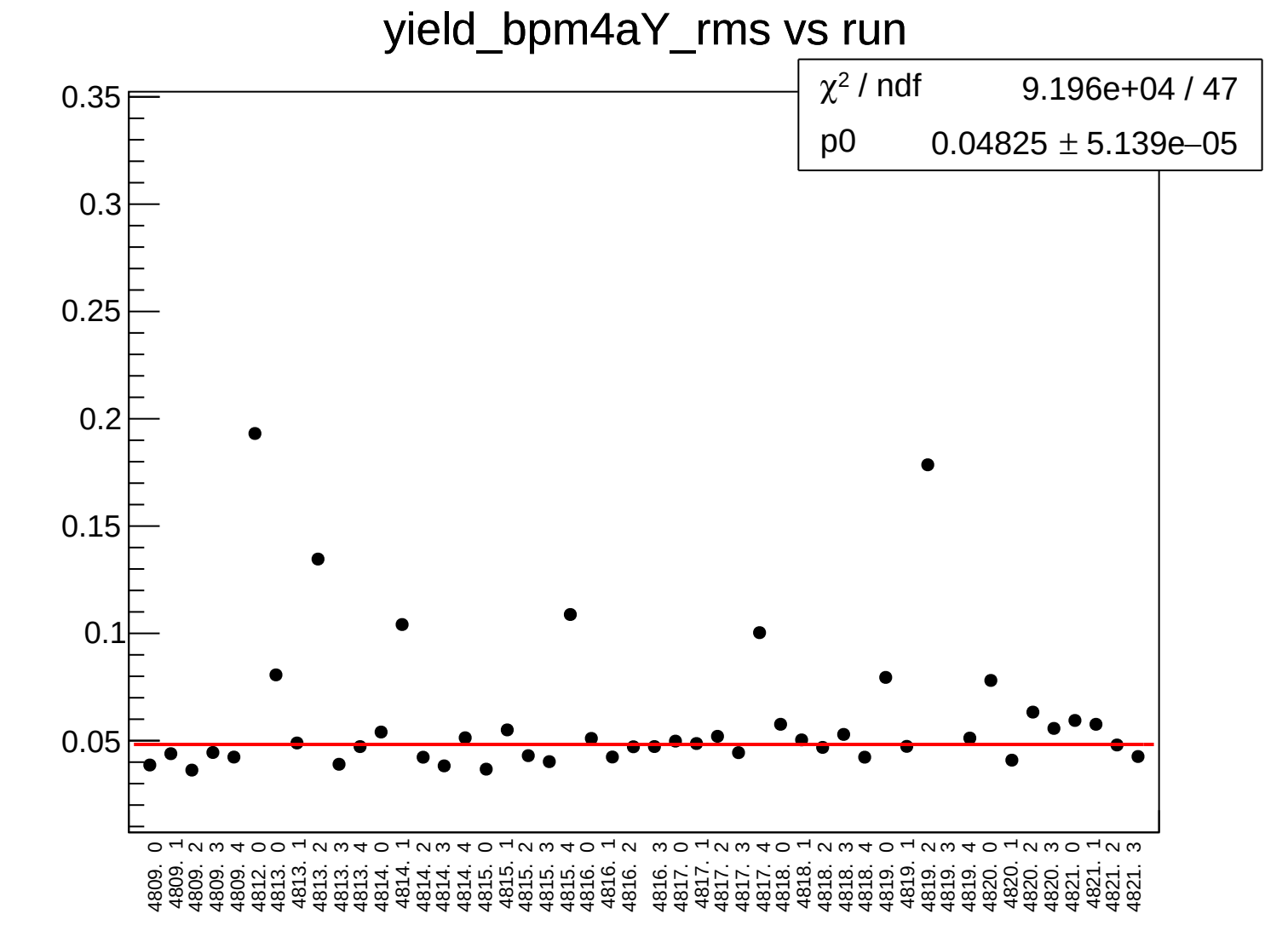

pull1D
Entries 48
Mean −1.061
Std Dev 5.316


yield_cav4dY_rms vs run
χ² / ndf 2.669e+04 / 47
p0 0.31 ± 0.0003186
0.45
0.4
0.35
0.3
0.25
0.2
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3


yield_bpm4aX_mean vs run
χ² / ndf 1.51e+04 / 47
p0 −0.02635 ± 2.39e−05
−0.01
−0.015
−0.02
−0.025
−0.03
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 29.05
Std Dev 11.33
60
40
20
0
−20
−40
pull1D
Entries 48
Mean −0.06106
Std Dev 4.101
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm4aX_rms vs run
χ² / ndf 7.755e+04 / 47
p0 0.016 ± 1.69e−05
0.03
0.025
0.02
0.015
0.01
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3


yield_bpm4aY_mean vs run
χ² / ndf 3.885e+04 / 47
p0 1.373 ± 7.268e−05
1.44
1.42
1.4
1.38
1.36
1.34
1.32
1.3
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean −63.31
Std Dev 75.44
160
140
120
100
80
60
40
20
0
−20
−40
pull1D
Entries 48
Mean −0.5429
Std Dev 5.007
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm4aY_rms vs run
χ² / ndf 9.196e+04 / 47
p0 0.04825 ± 5.139e–05
0.35
0.3
0.25
0.2
0.15
0.1
0.05
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
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4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
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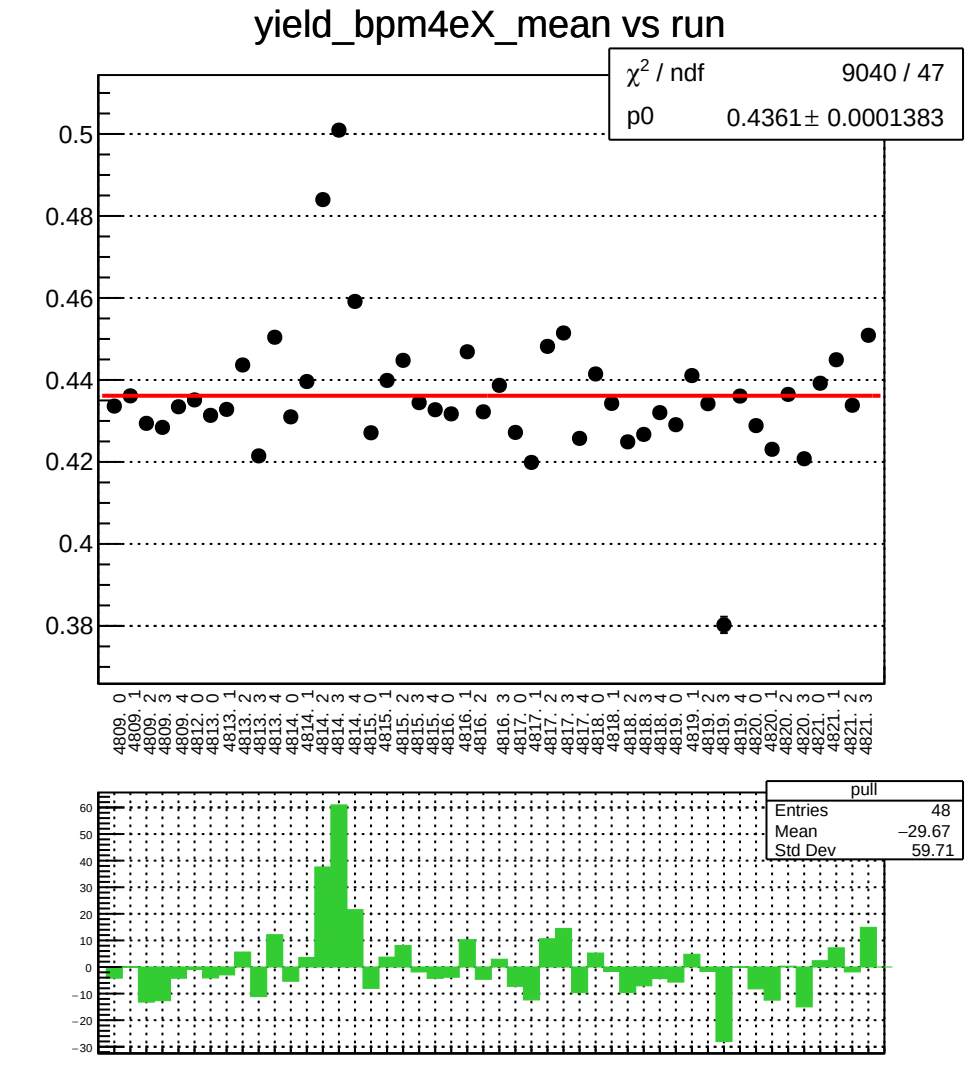
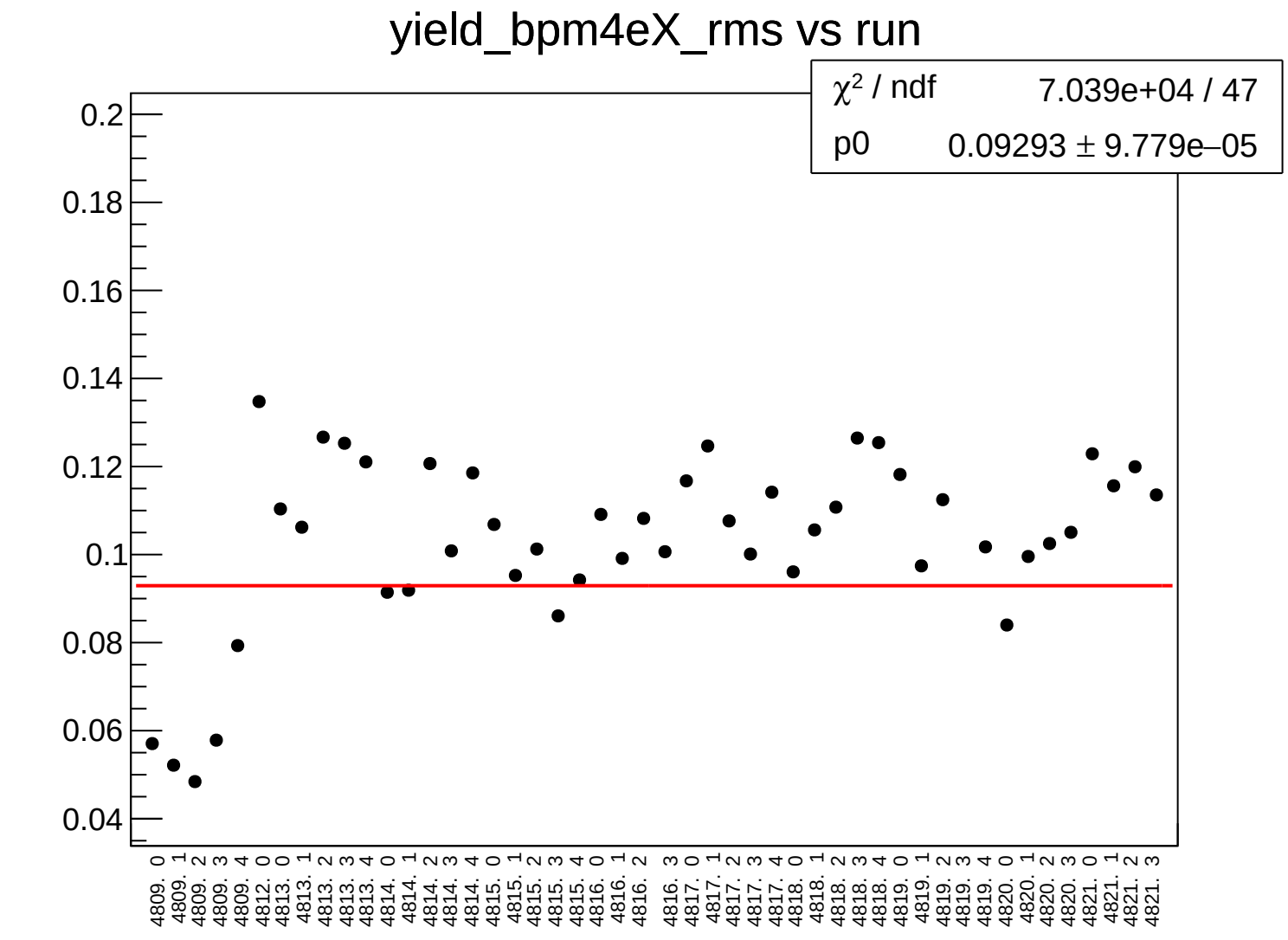
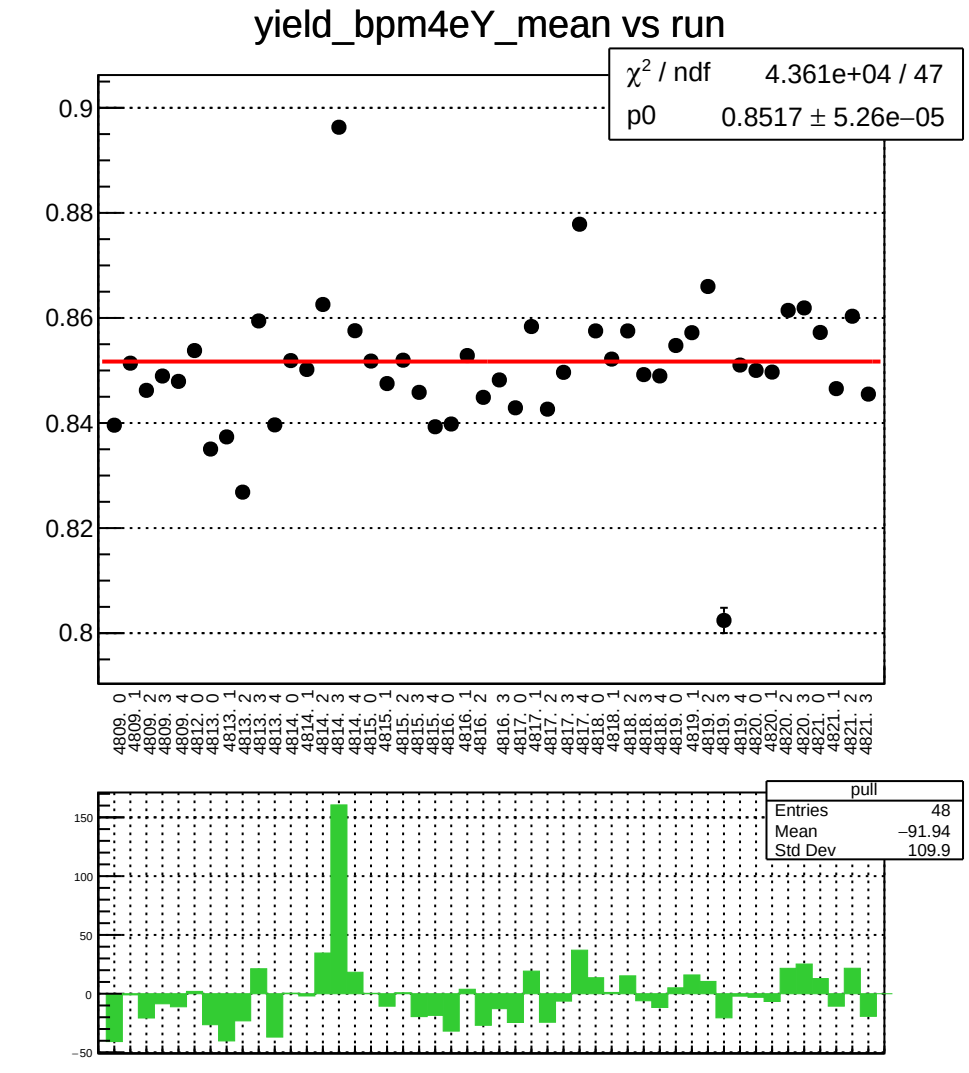
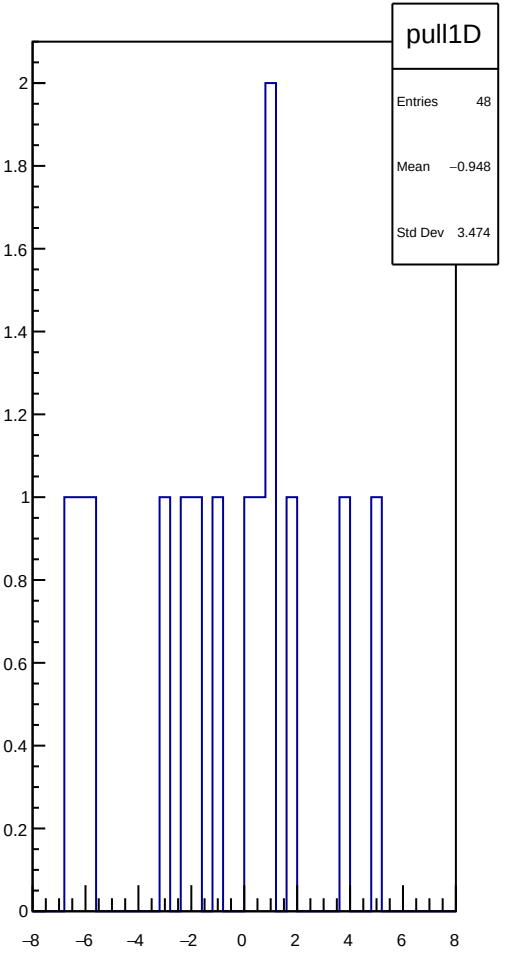
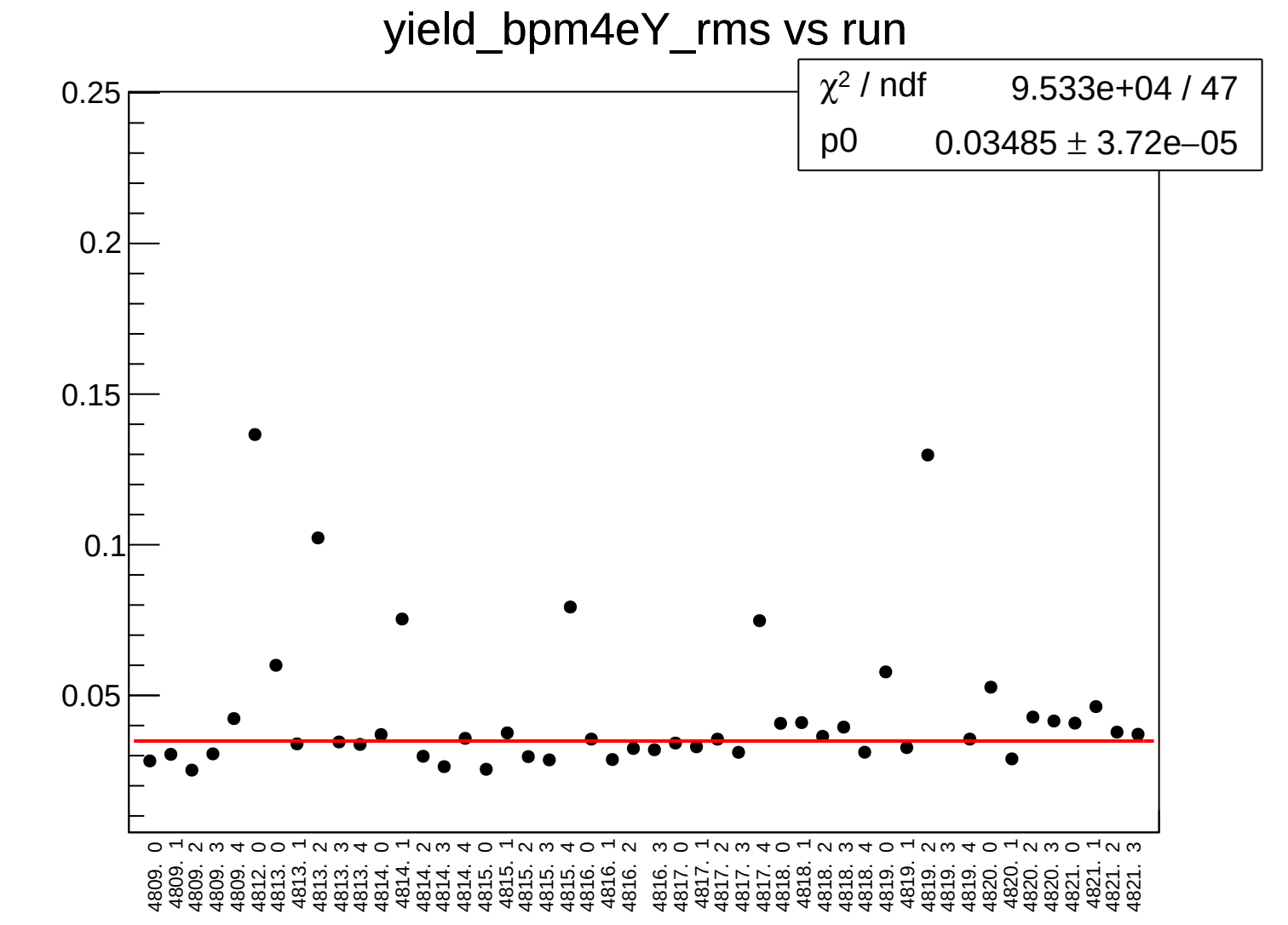
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

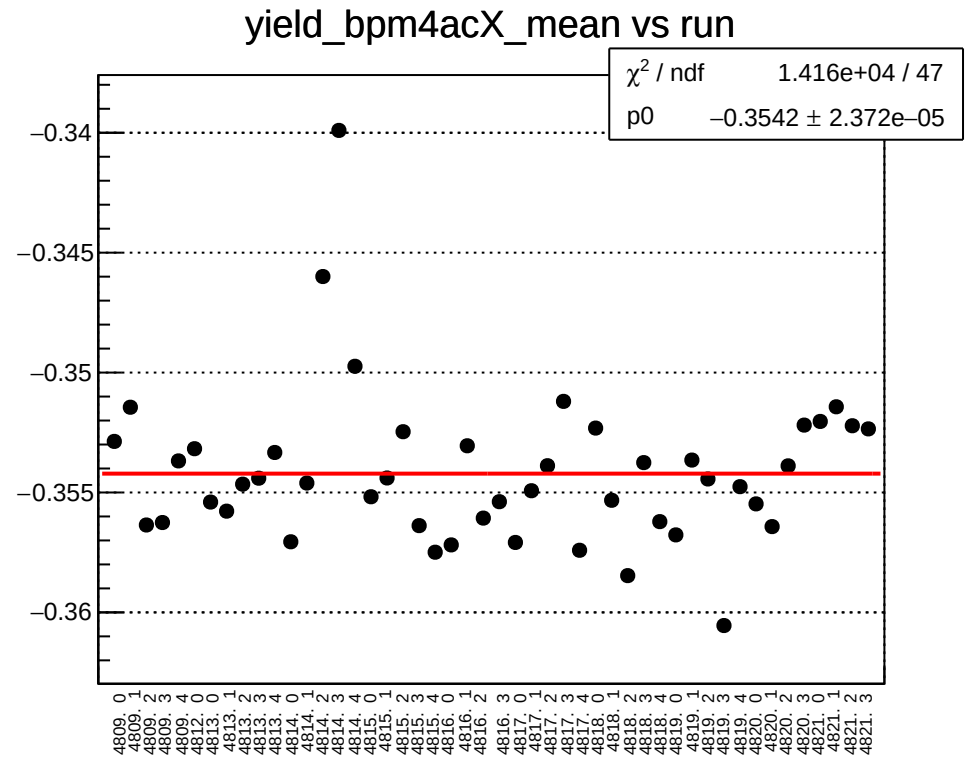

yield_bpm4eX_mean vs run
χ² / ndf 9040 / 47
p0 0.4361 ± 0.0001383
0.5
0.48
0.46
0.44
0.42
0.4
0.38
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean −29.67
Std Dev 59.71
60
50
40
30
20
10
0
−10
−20
−30
pull1D
Entries 48
Mean −1.082
Std Dev 4.024
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

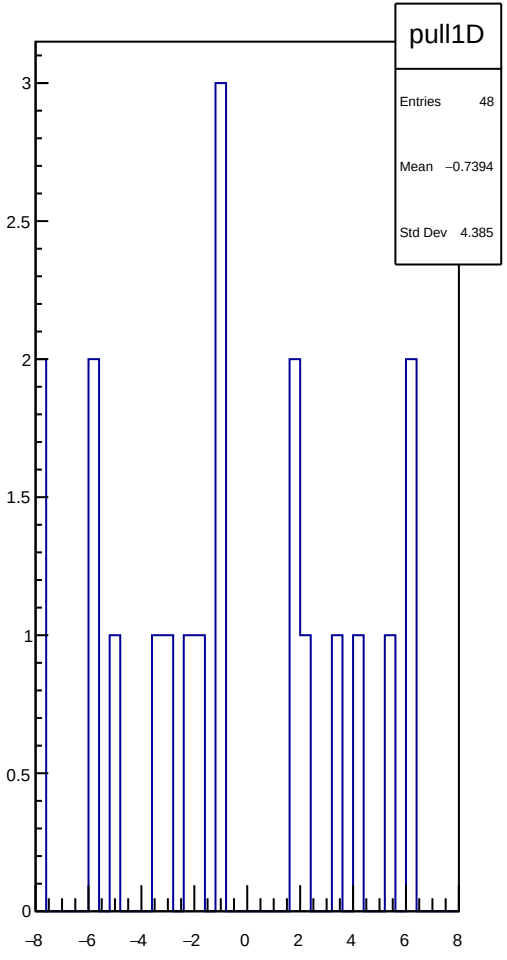

yield_bpm4eX_rms vs run
χ² / ndf 7.039e+04 / 47
p0 0.09293 ± 9.779e–05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

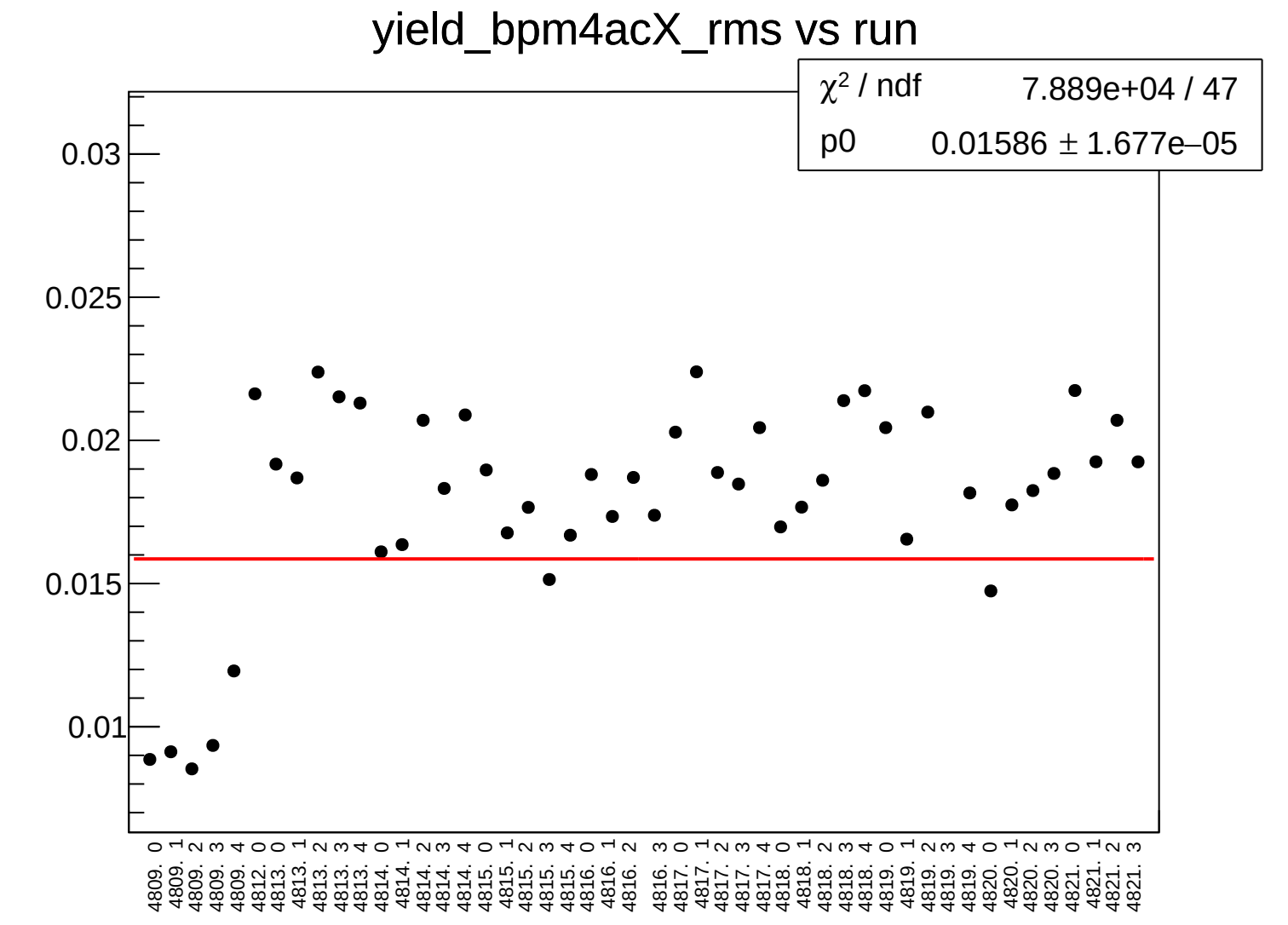

yield_bpm4eY_mean vs run
χ² / ndf 4.361e+04 / 47
p0 0.8517 ± 5.26e−05
0.9
0.88
0.86
0.84
0.82
0.8
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean −91.94
Std Dev 109.9
150
100
50
0
−50

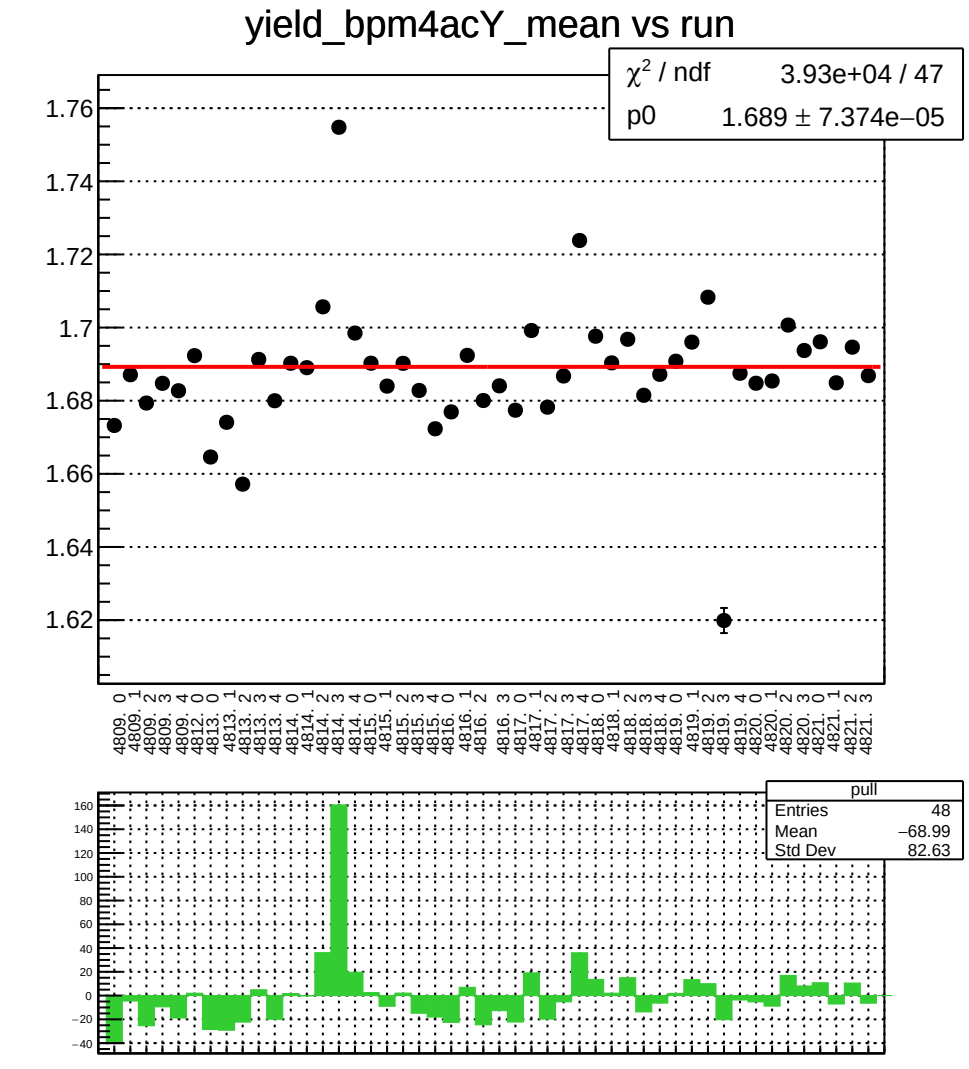

pull1D
Entries 48
Mean −0.948
Std Dev 3.474
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

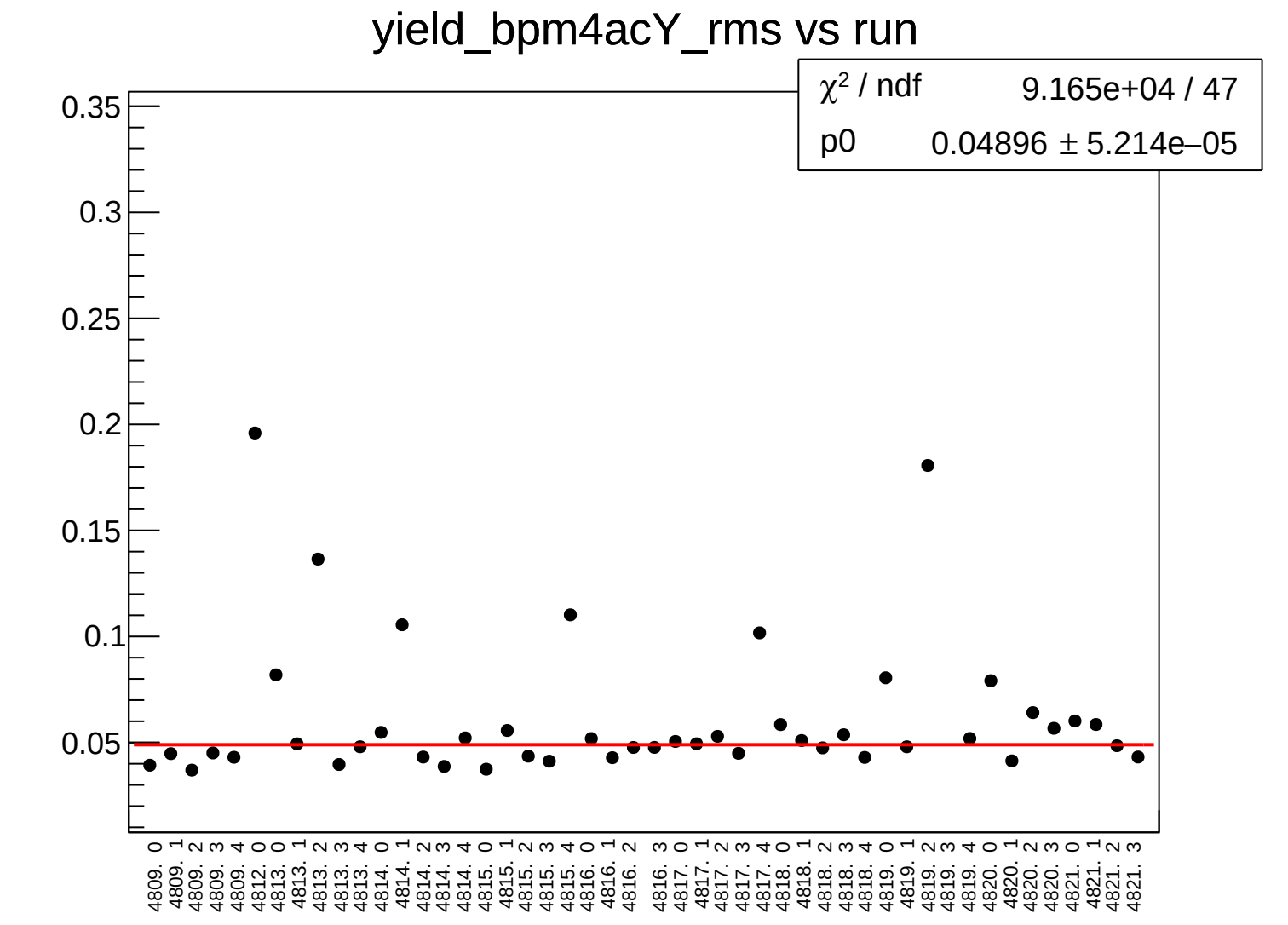

yield_bpm4eY_rms vs run
χ² / ndf 9.533e+04 / 47
p0 0.03485 ± 3.72e−05
0.25
0.2
0.15
0.1
0.05
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3


yield_bpm4acX_mean vs run
χ² / ndf 1.416e+04 / 47
p0 −0.3542 ± 2.372e−05
−0.34
−0.345
−0.35
−0.355
−0.36
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean −44.08
Std Dev 52.9
60
40
20
0
−20


pull1D
Entries 48
Mean −0.7394
Std Dev 4.385
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm4acX_rms vs run
χ² / ndf 7.889e+04 / 47
p0 0.01586 ± 1.677e–05
0.03
0.025
0.02
0.015
0.01
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3


yield_bpm4acY_mean vs run
χ² / ndf 3.93e+04 / 47
p0 1.689 ± 7.374e−05
1.76
1.74
1.72
1.7
1.68
1.66
1.64
1.62
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean −68.99
Std Dev 82.63
160
140
120
100
80
60
40
20
0
−20
−40
pull1D
Entries 48
Mean −0.9326
Std Dev 4.366
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm4acY_rms vs run
χ² / ndf 9.165e+04 / 47
p0 0.04896 ± 5.214e–05
0.35
0.3
0.25
0.2
0.15
0.1
0.05
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
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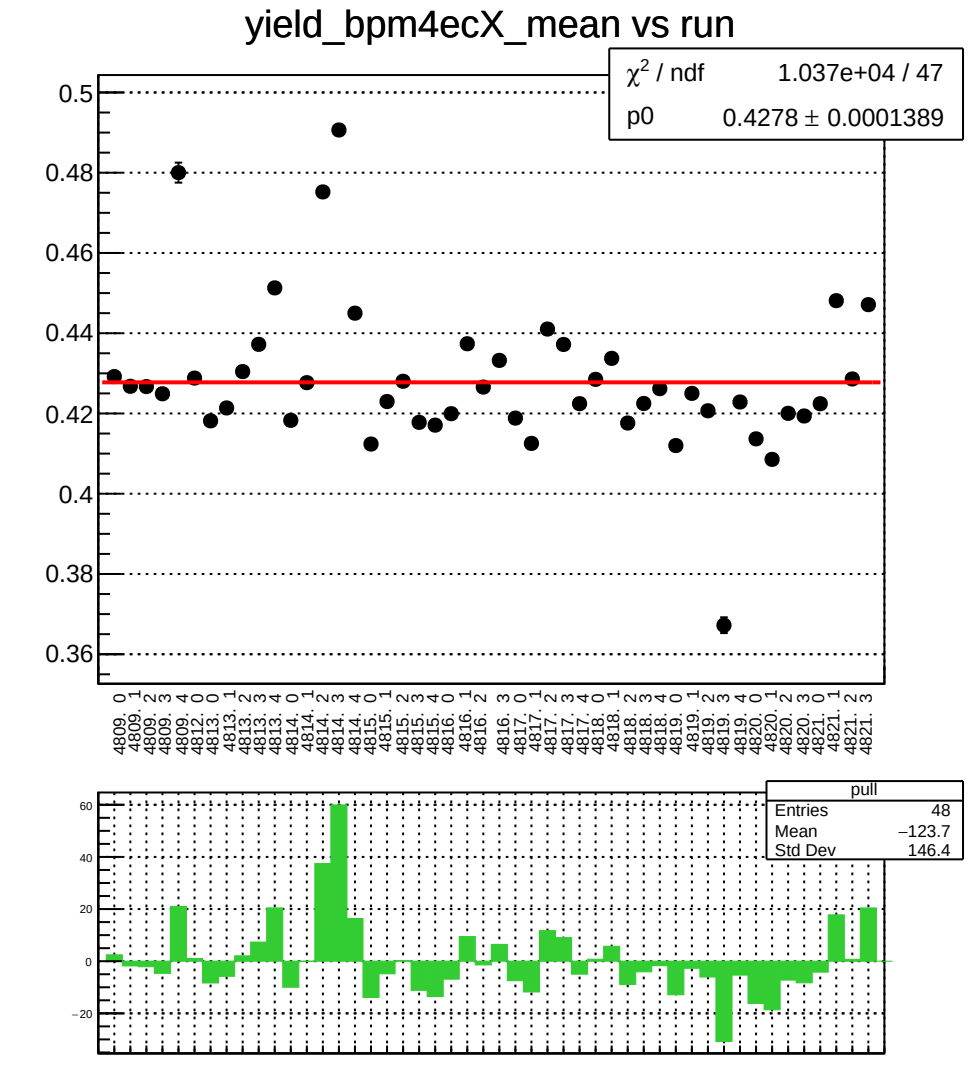
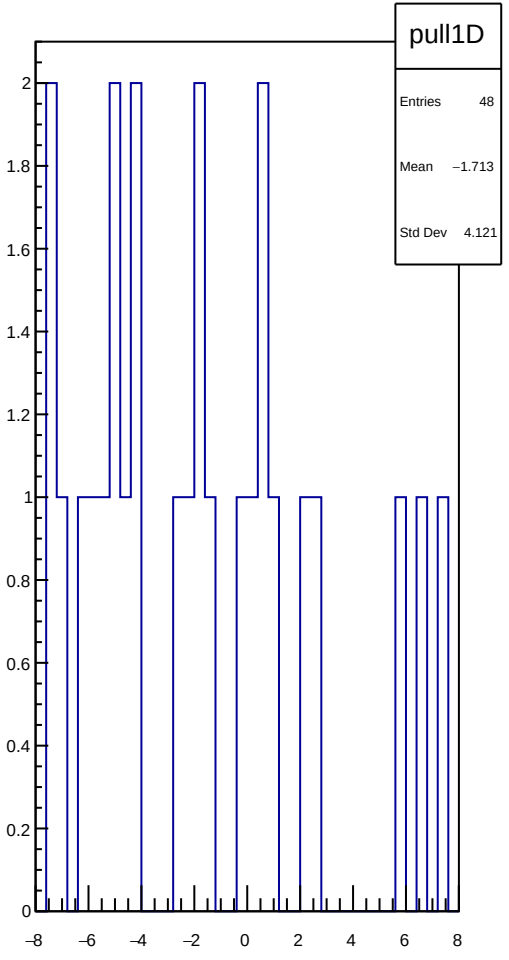
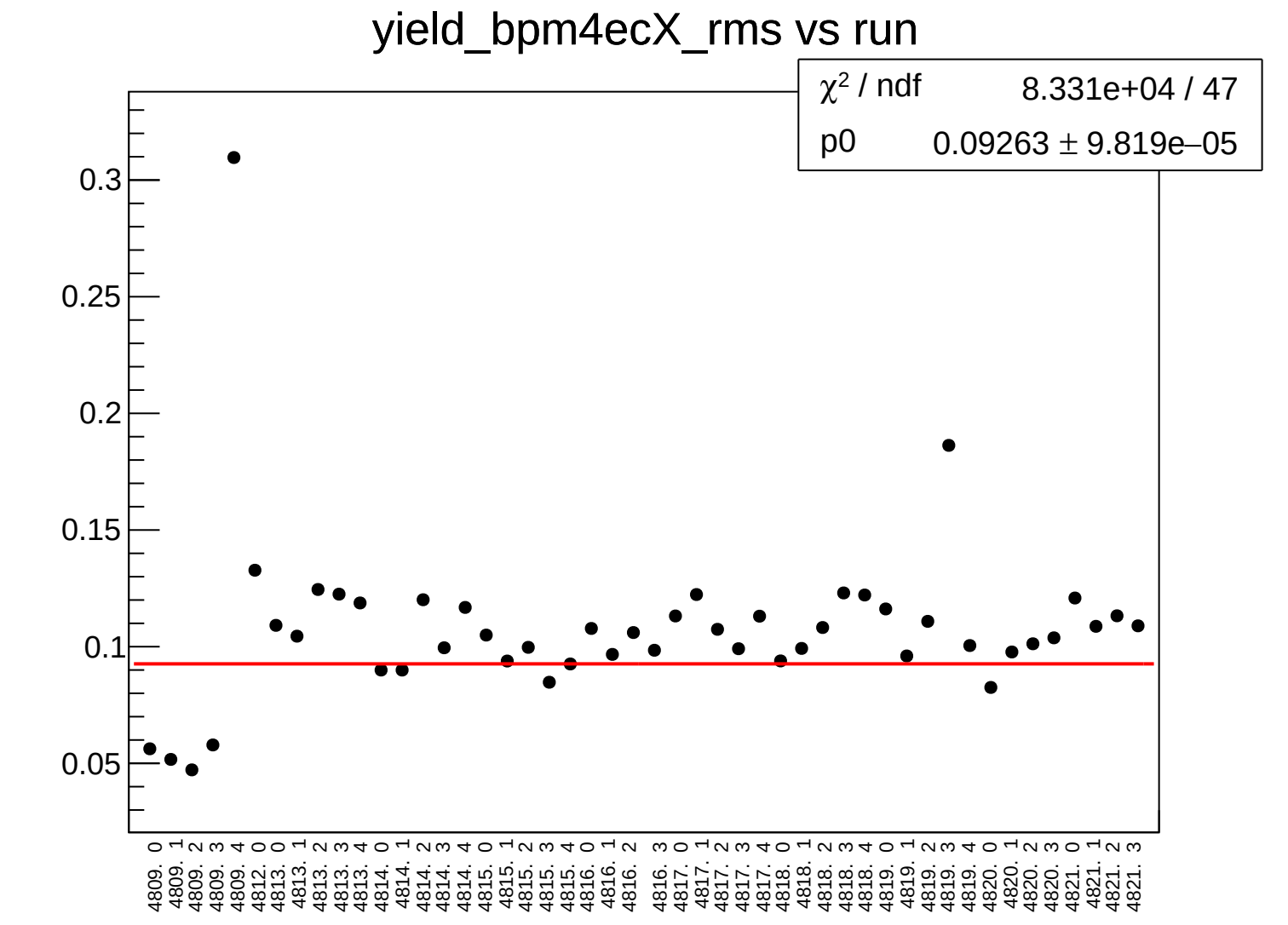
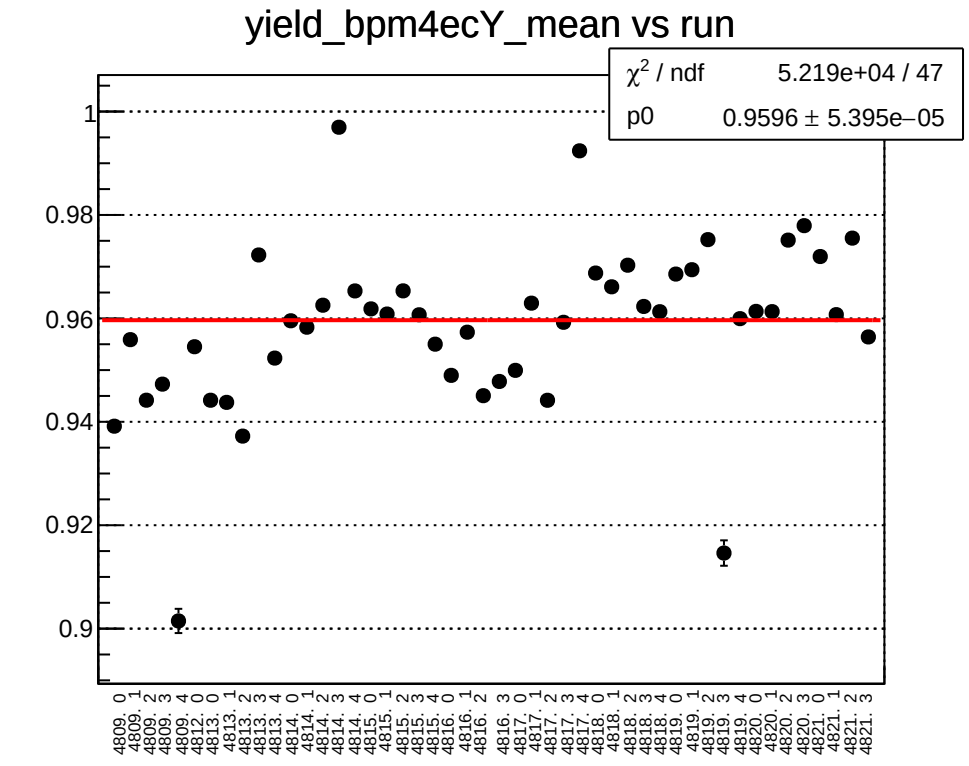
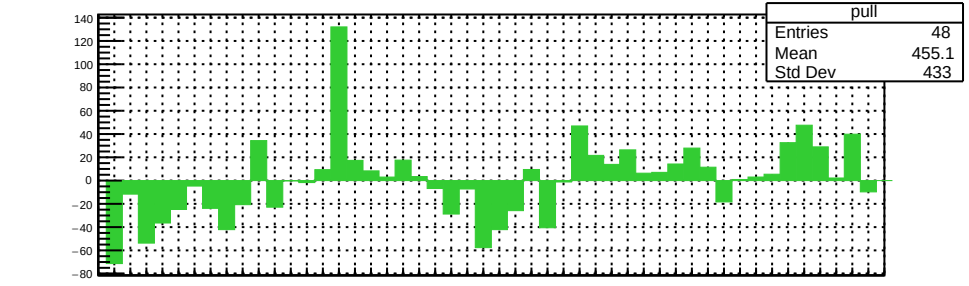
4821. 2
4821. 3

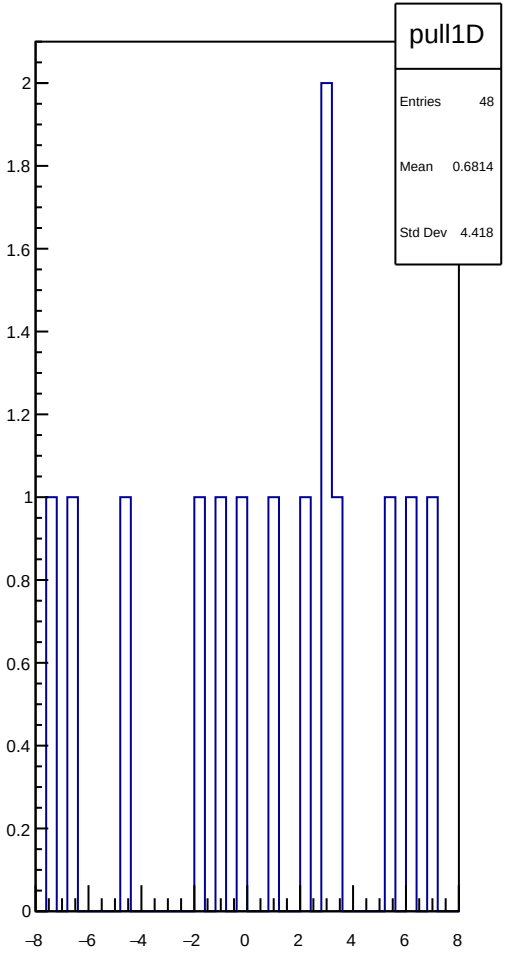

yield_bpm4ecX_mean vs run
χ^2 / ndf 1.037e+04 / 47
p0 0.4278 ± 0.0001389
0.5
0.48
0.46
0.44
0.42
0.4
0.38
0.36
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean −123.7
Std Dev 146.4
60
40
20
0
−20

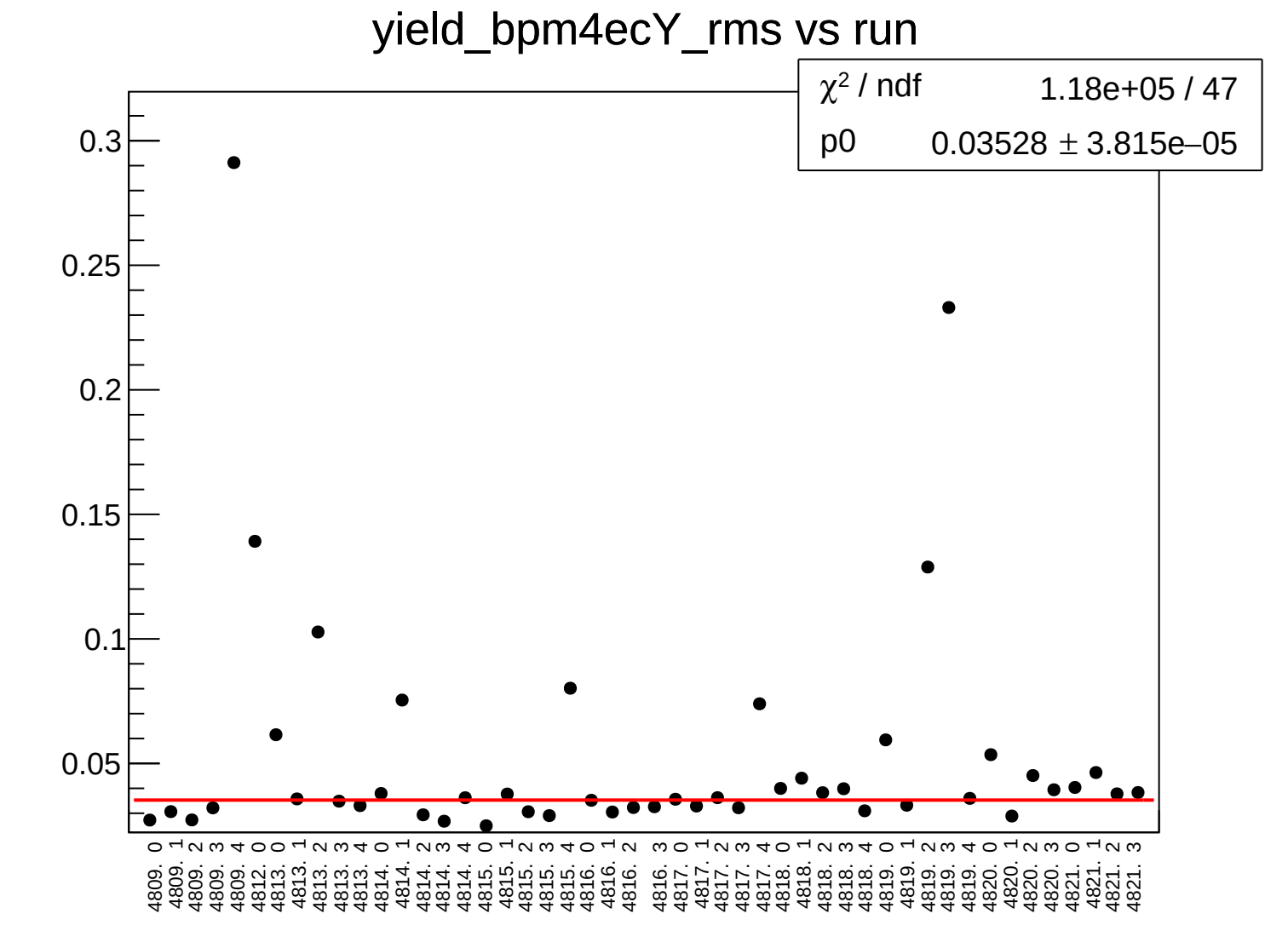

pull1D
Entries 48
Mean −1.713
Std Dev 4.121
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

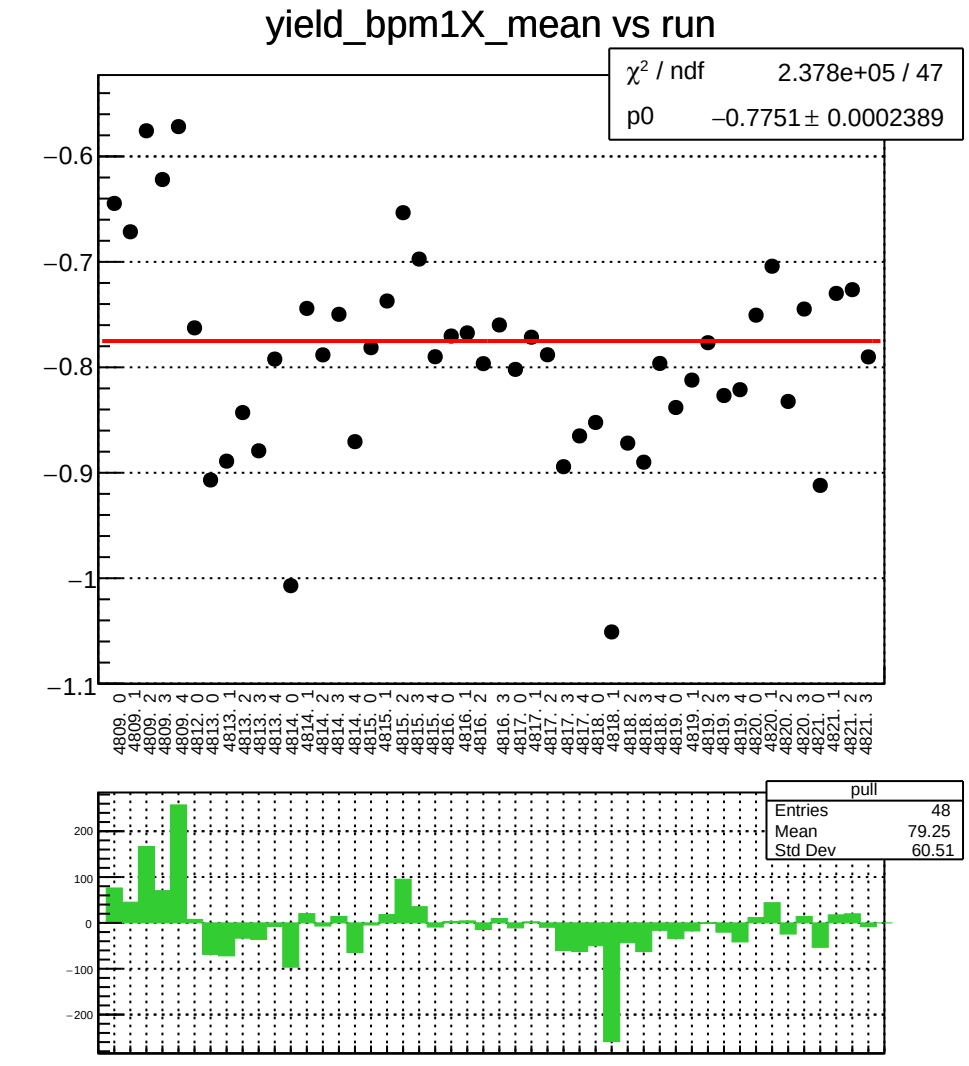

yield_bpm4ecX_rms vs run
χ² / ndf 8.331e+04 / 47
p0 0.09263 ± 9.819e–05
0.3
0.25
0.2
0.15
0.1
0.05
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

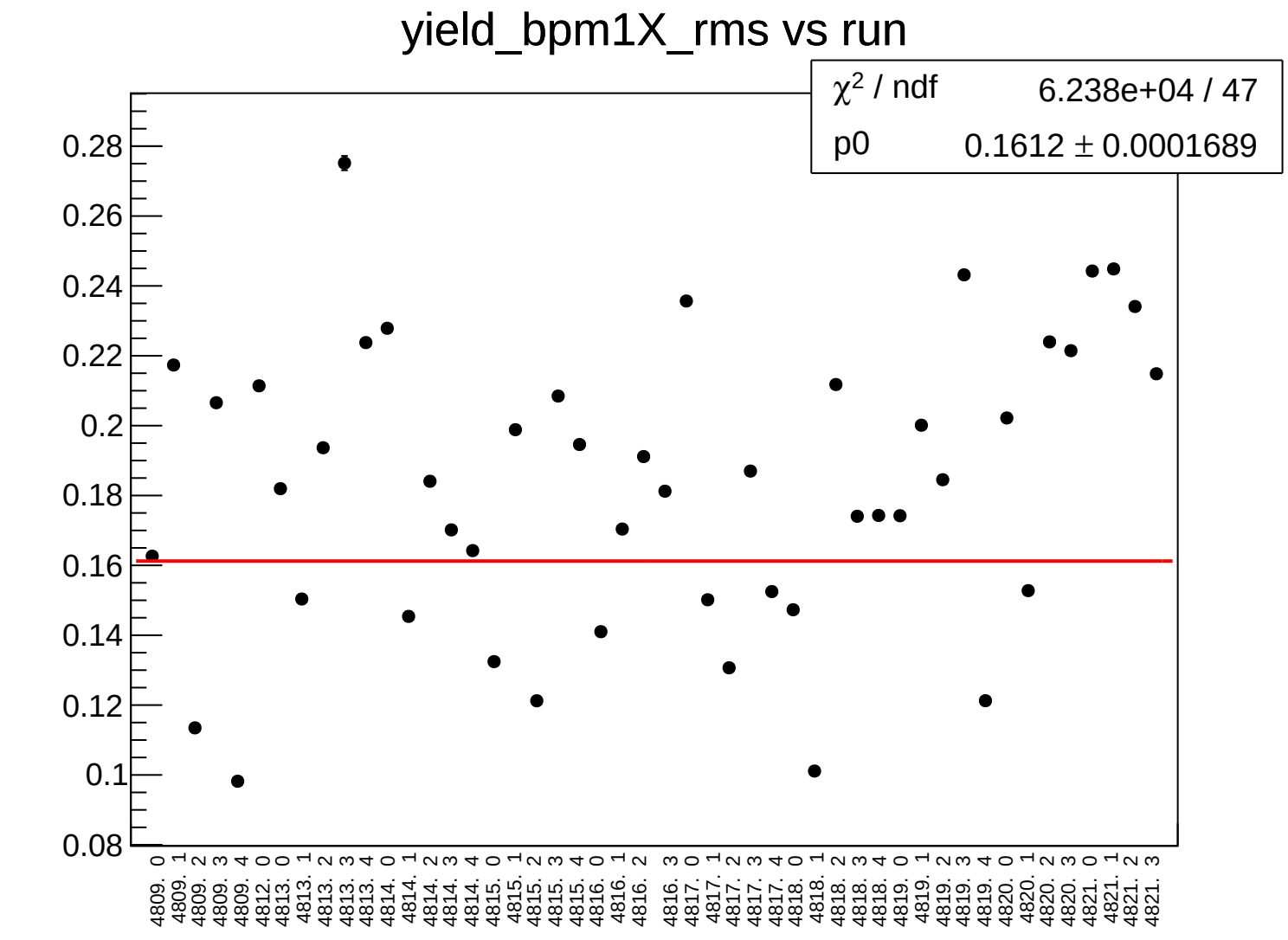

yield_bpm4ecY_mean vs run
χ² / ndf 5.219e+04 / 47
p0 0.9596 ± 5.395e−05
1
0.98
0.96
0.94
0.92
0.9
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

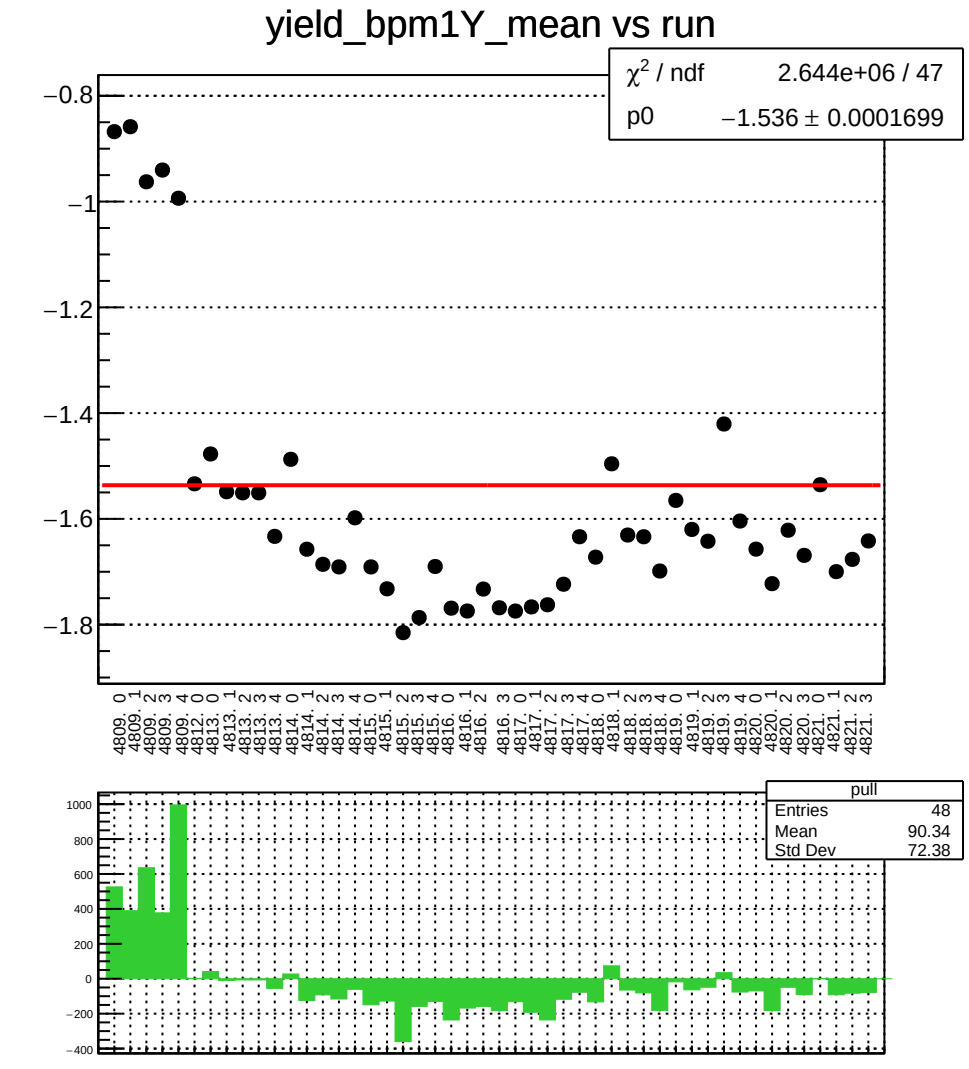

pull
Entries 48
Mean 455.1
Std Dev 433
140
120
100
80
60
40
20
0
−20
−40
−60
−80

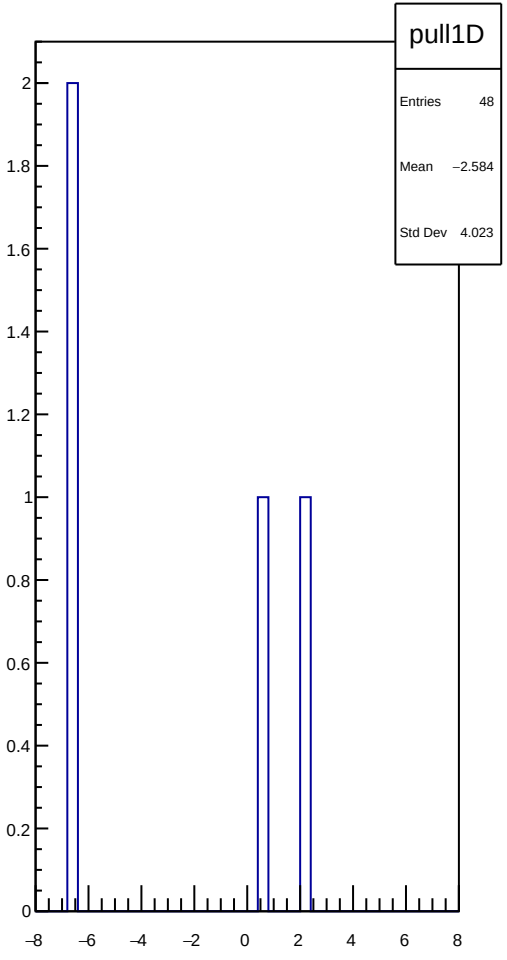

pull1D
Entries 48
Mean 0.6814
Std Dev 4.418
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

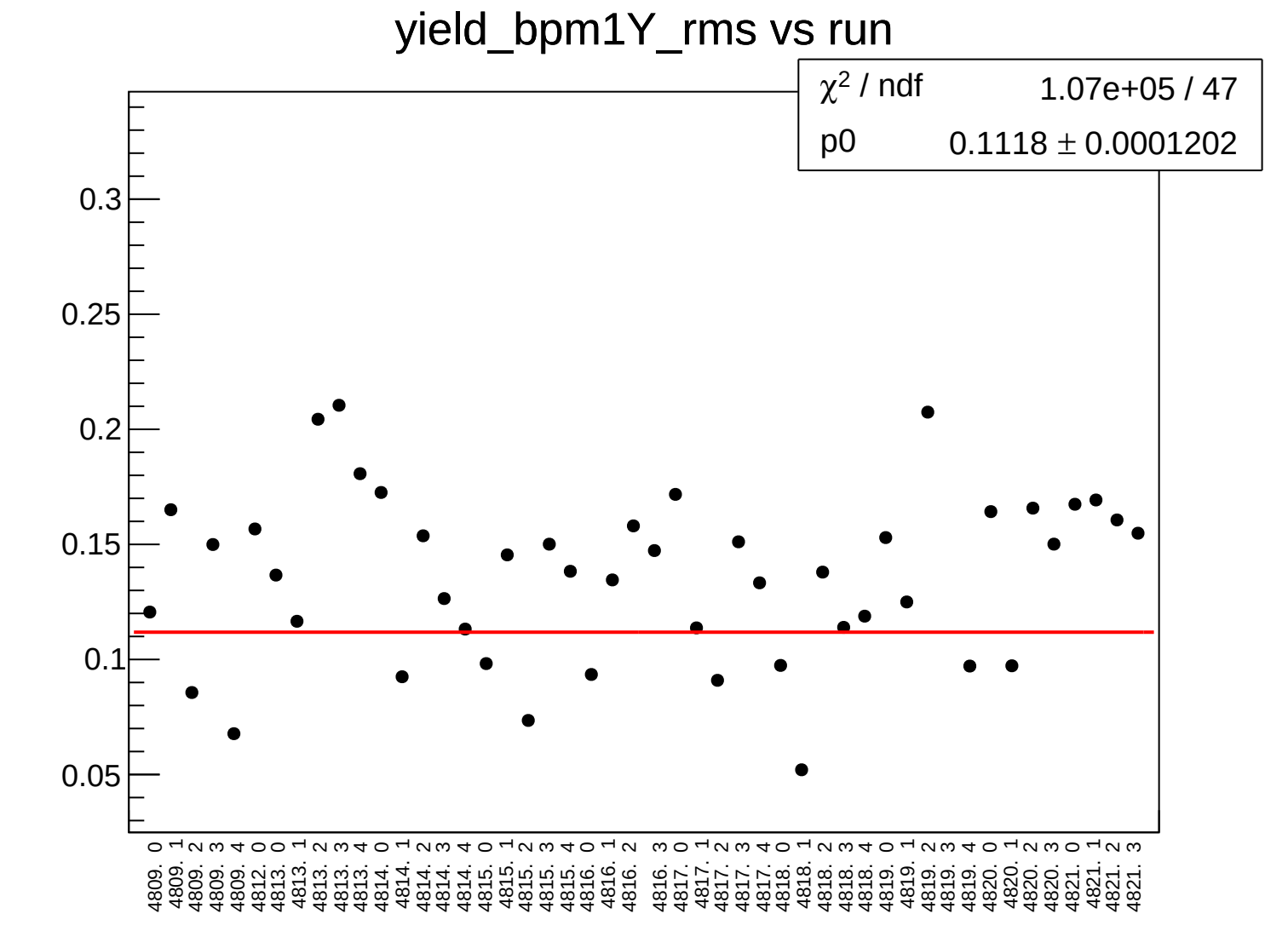

yield_bpm4ecY_rms vs run
χ² / ndf 1.18e+05 / 47
p0 0.03528 ± 3.815e–05
0.3
0.25
0.2
0.15
0.1
0.05
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

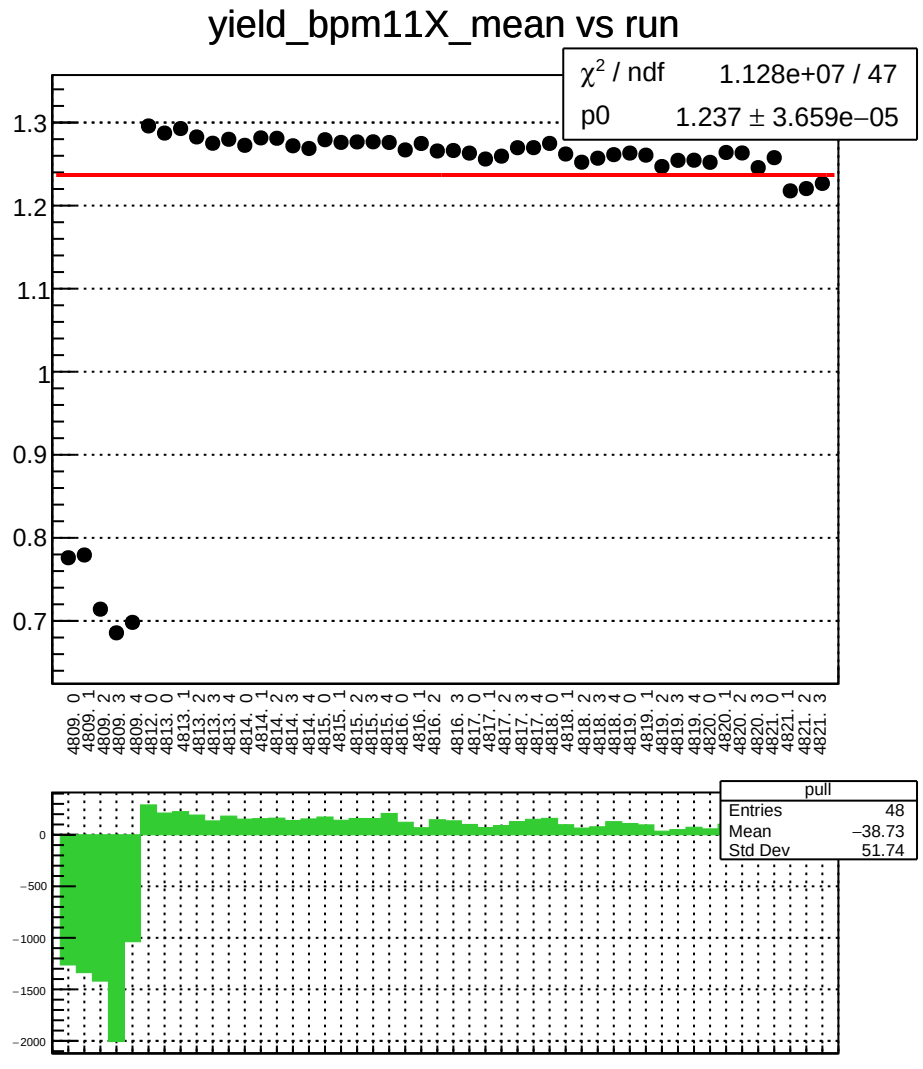

yield_bpm1X_mean vs run
χ² / ndf 2.378e+05 / 47
p0 −0.7751 ± 0.0002389
−0.6
−0.7
−0.8
−0.9
−1
−1.1
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 79.25
Std Dev 60.51
200
100
0
−100
−200
pull1D
Entries 48
Mean −0.3234
Std Dev 5.231
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

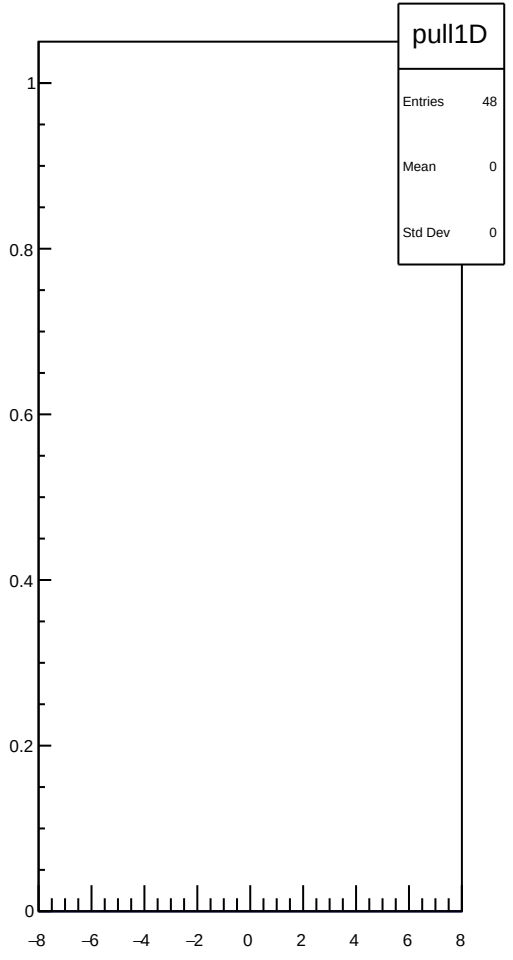

yield_bpm1X_rms vs run
χ² / ndf 6.238e+04 / 47
p0 0.1612 ± 0.0001689
0.28
0.26
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

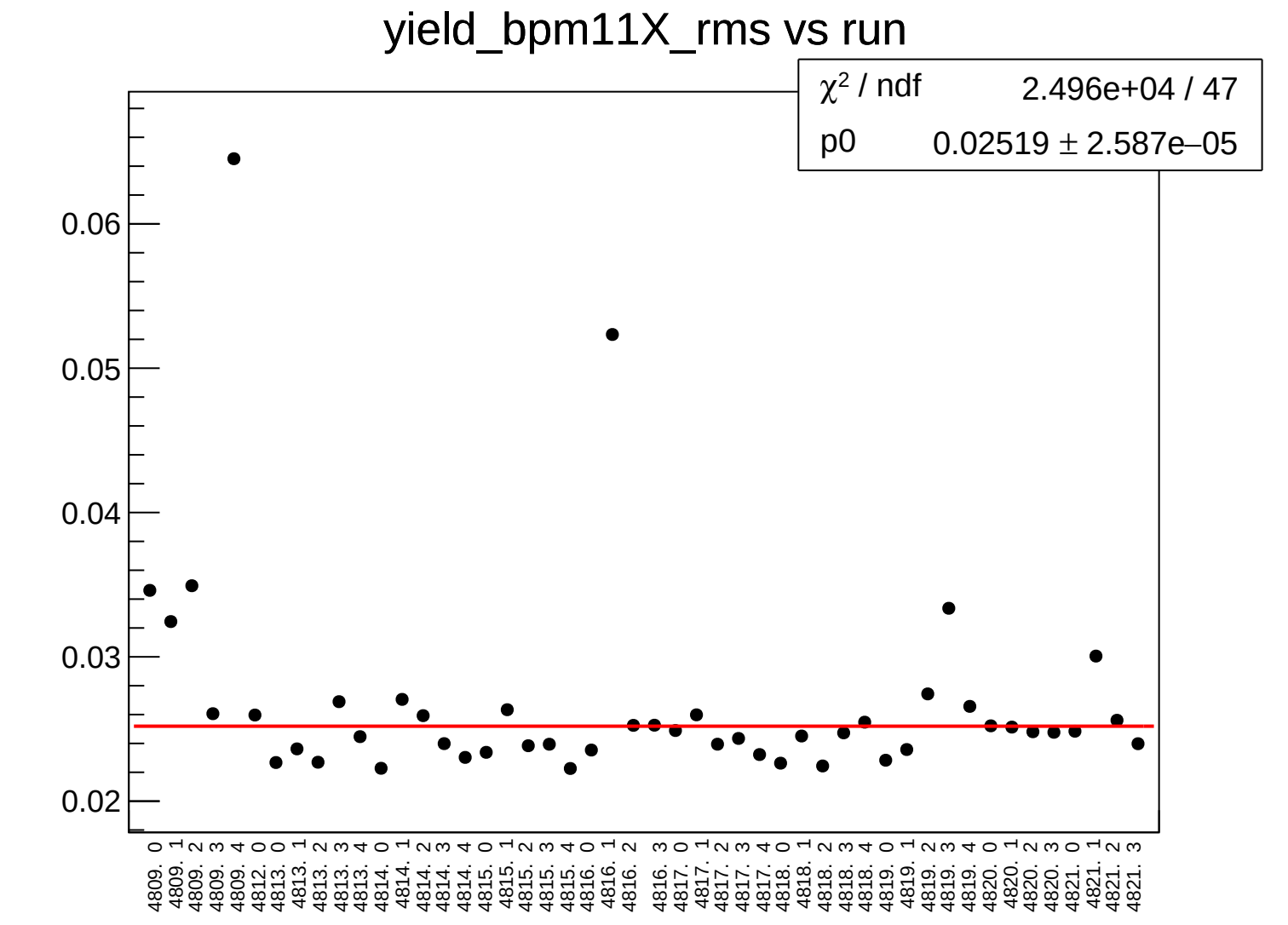

yield_bpm1Y_mean vs run
χ² / ndf 2.644e+06 / 47
p0 −1.536 ± 0.0001699
−0.8
−1
−1.2
−1.4
−1.6
−1.8
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 90.34
Std Dev 72.38
1000
800
600
400
200
0
−200
−400

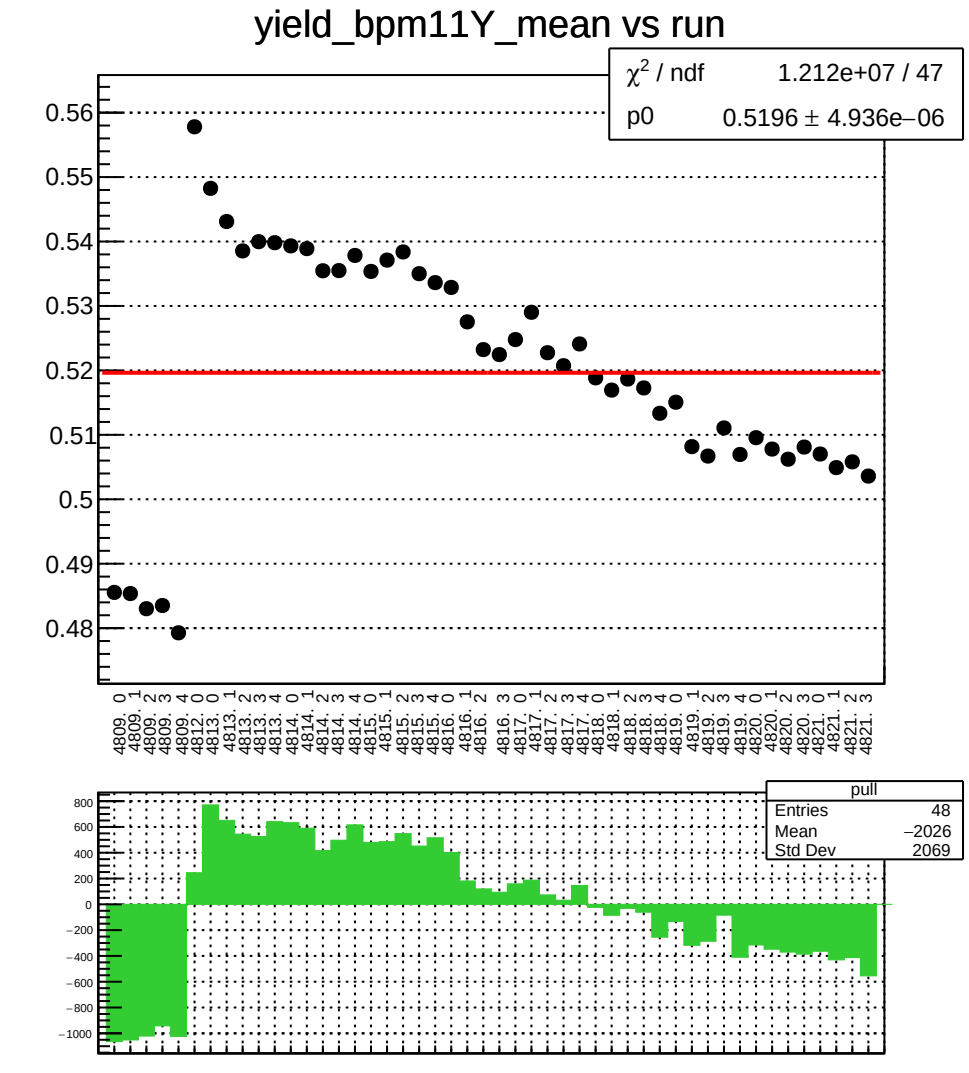

pull1D
Entries 48
Mean −2.584
Std Dev 4.023
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

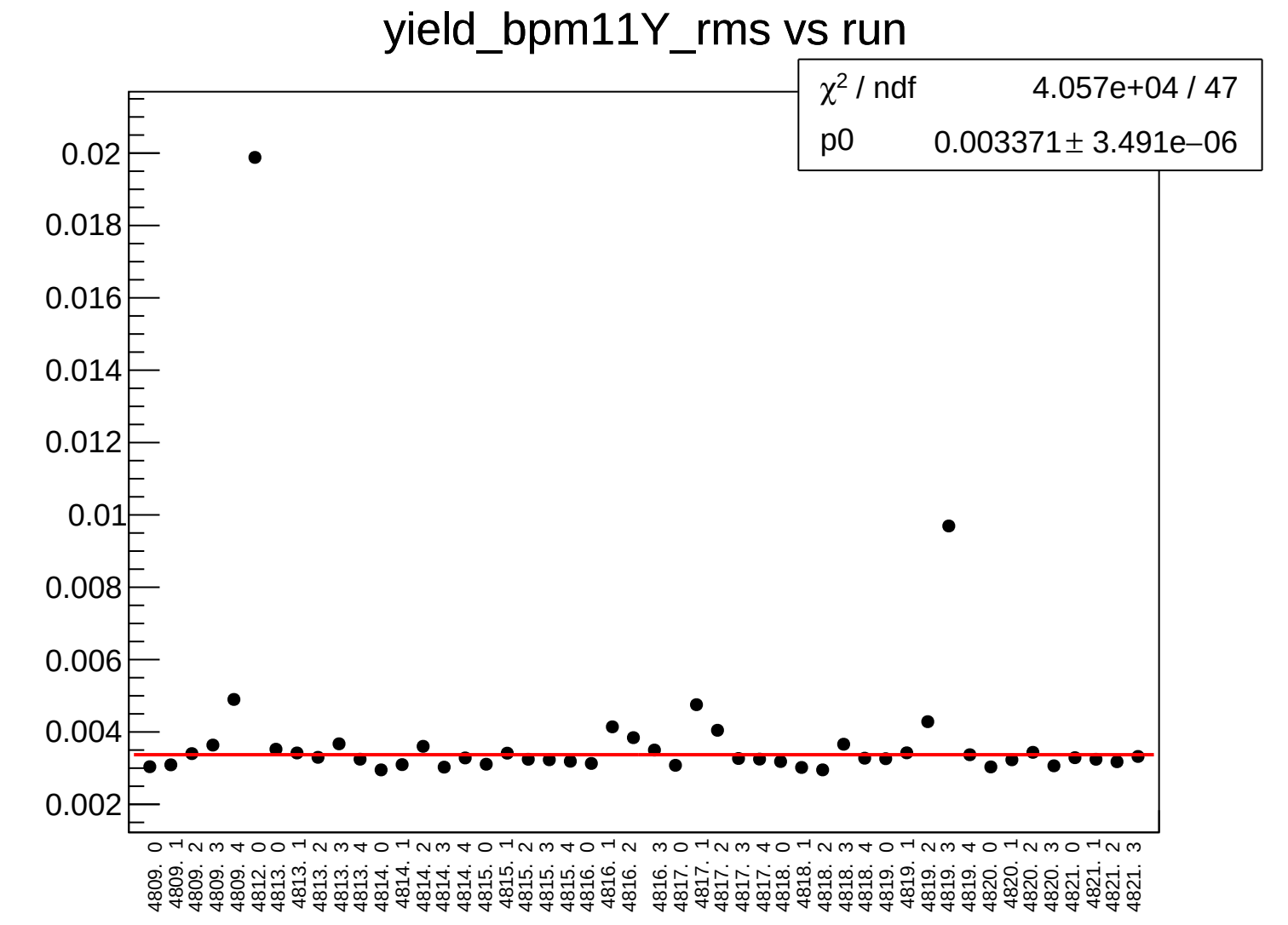

yield_bpm1Y_rms vs run
χ² / ndf 1.07e+05 / 47
p0 0.1118 ± 0.0001202
0.3
0.25
0.2
0.15
0.1
0.05
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3


yield_bpm11X_mean vs run
χ² / ndf 1.128e+07 / 47
p0 1.237 ± 3.659e−05
pull
Entries 48
Mean −38.73
Std Dev 51.74


pull1D
Entries 48
Mean 0
Std Dev 0


yield_bpm11X_rms vs run
χ² / ndf 2.496e+04 / 47
p0 0.02519 ± 2.587e–05
0.06
0.05
0.04
0.03
0.02
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3


yield_bpm11Y_mean vs run
χ² / ndf 1.212e+07 / 47
p0 0.5196 ± 4.936e−06
0.56
0.55
0.54
0.53
0.52
0.51
0.5
0.49
0.48
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean −2026
Std Dev 2069
800
600
400
200
0
−200
−400
−600
−800
−1000
pull1D
Entries 48
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm11Y_rms vs run
χ² / ndf 4.057e+04 / 47
p0 0.003371 ± 3.491e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
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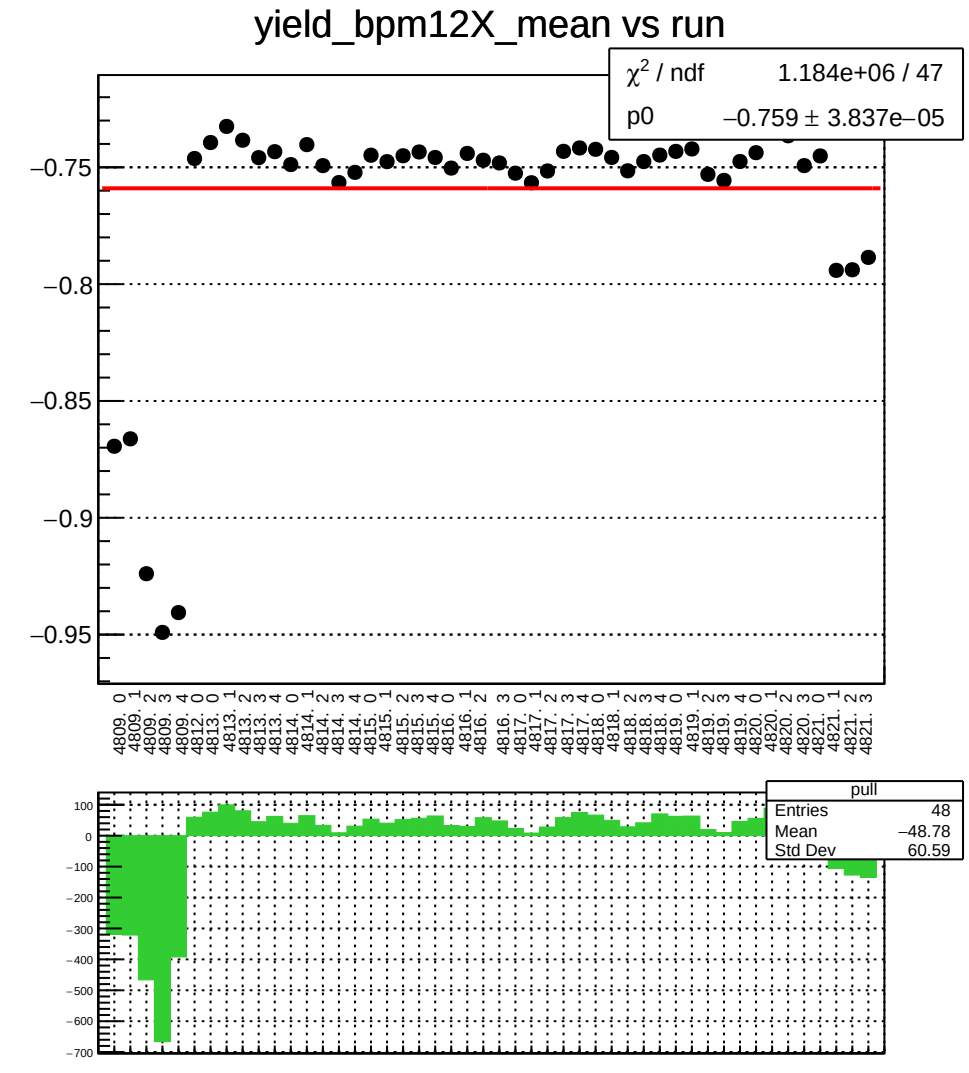
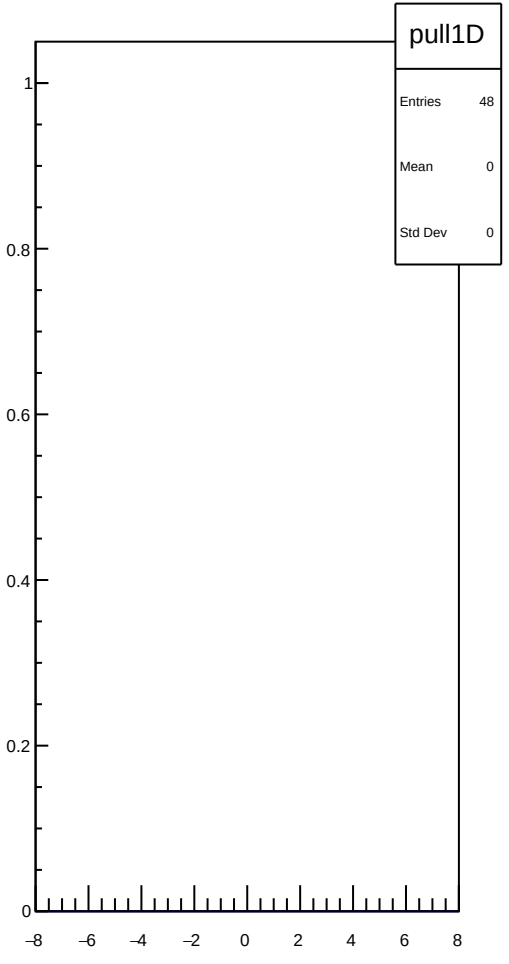
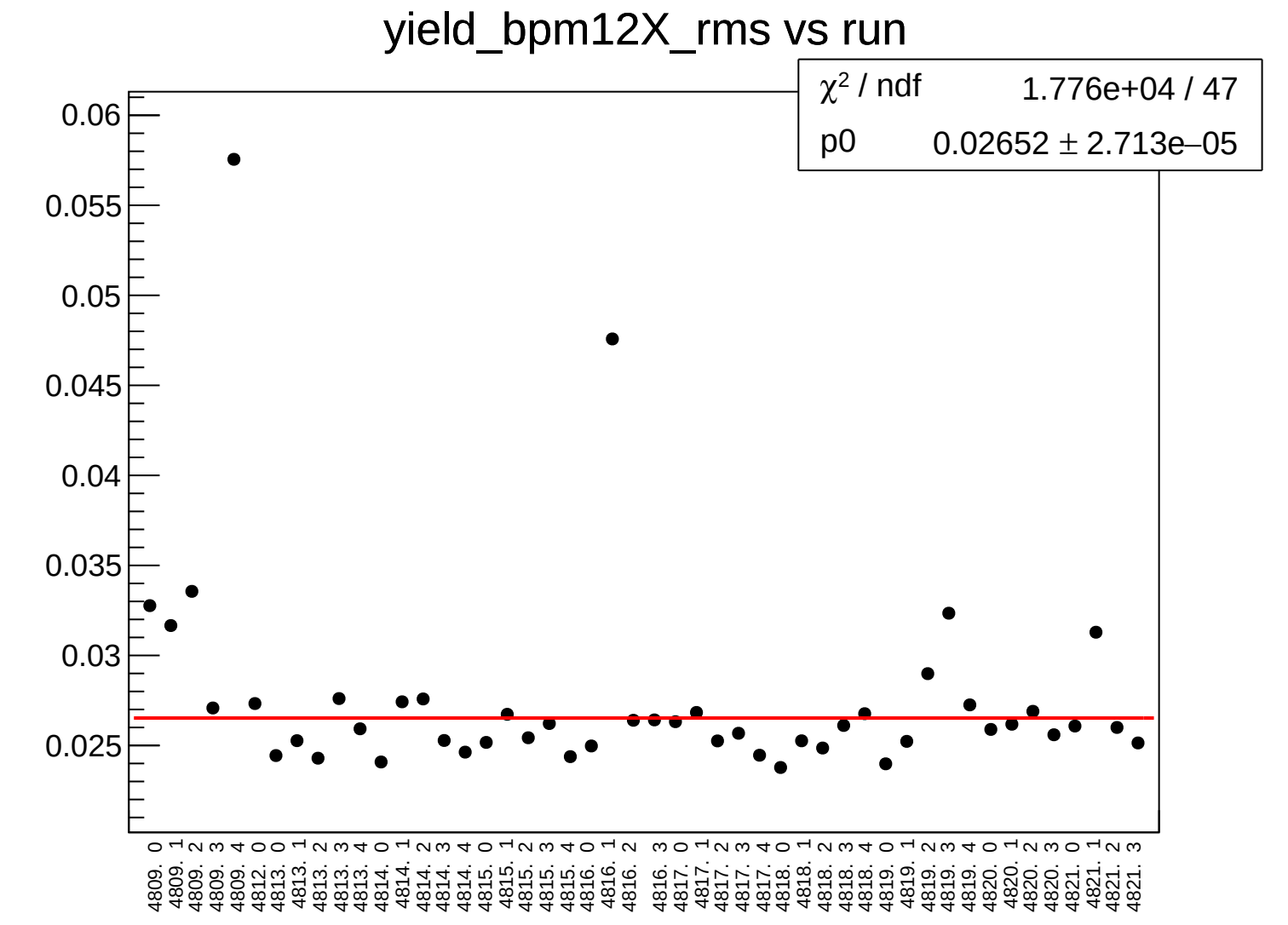
4821. 2
4821. 3


yield_bpm12X_mean vs run
χ² / ndf 1.184e+06 / 47
p0 −0.759 ± 3.837e−05
−0.75
−0.8
−0.85
−0.9
−0.95
pull
Entries 48
Mean −48.78
Std Dev 60.59
100
0
−100
−200
−300
−400
−500
−600
−700


pull1D
Entries 48
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm12X_rms vs run
χ² / ndf 1.776e+04 / 47
p0 0.02652 ± 2.713e–05
0.06
0.055
0.05
0.045
0.04
0.035
0.03
0.025
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
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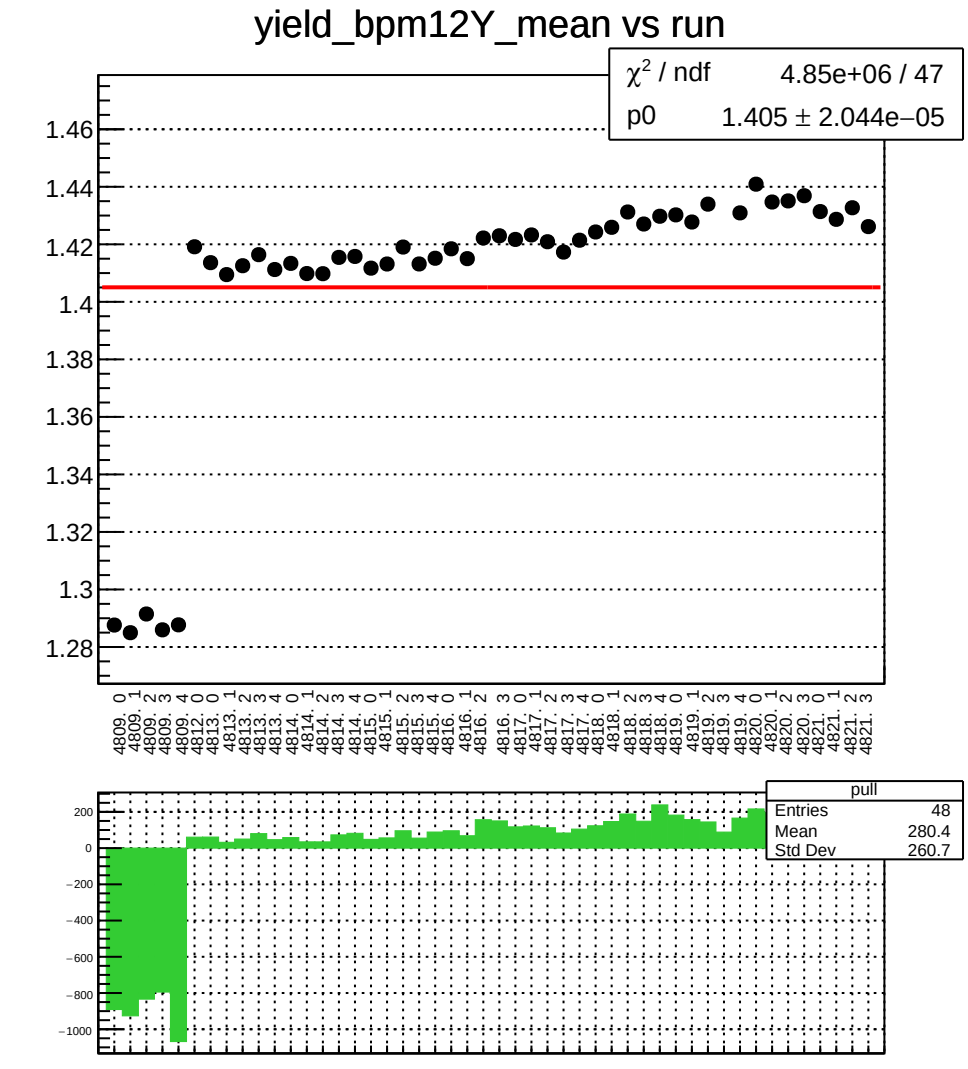
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3


yield_bpm12Y_mean vs run
χ² / ndf 4.85e+06 / 47
p0 1.405 ± 2.044e−05
1.46
1.44
1.42
1.4
1.38
1.36
1.34
1.32
1.3
1.28
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
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4817. 2
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4817. 4
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4818. 1
4818. 2
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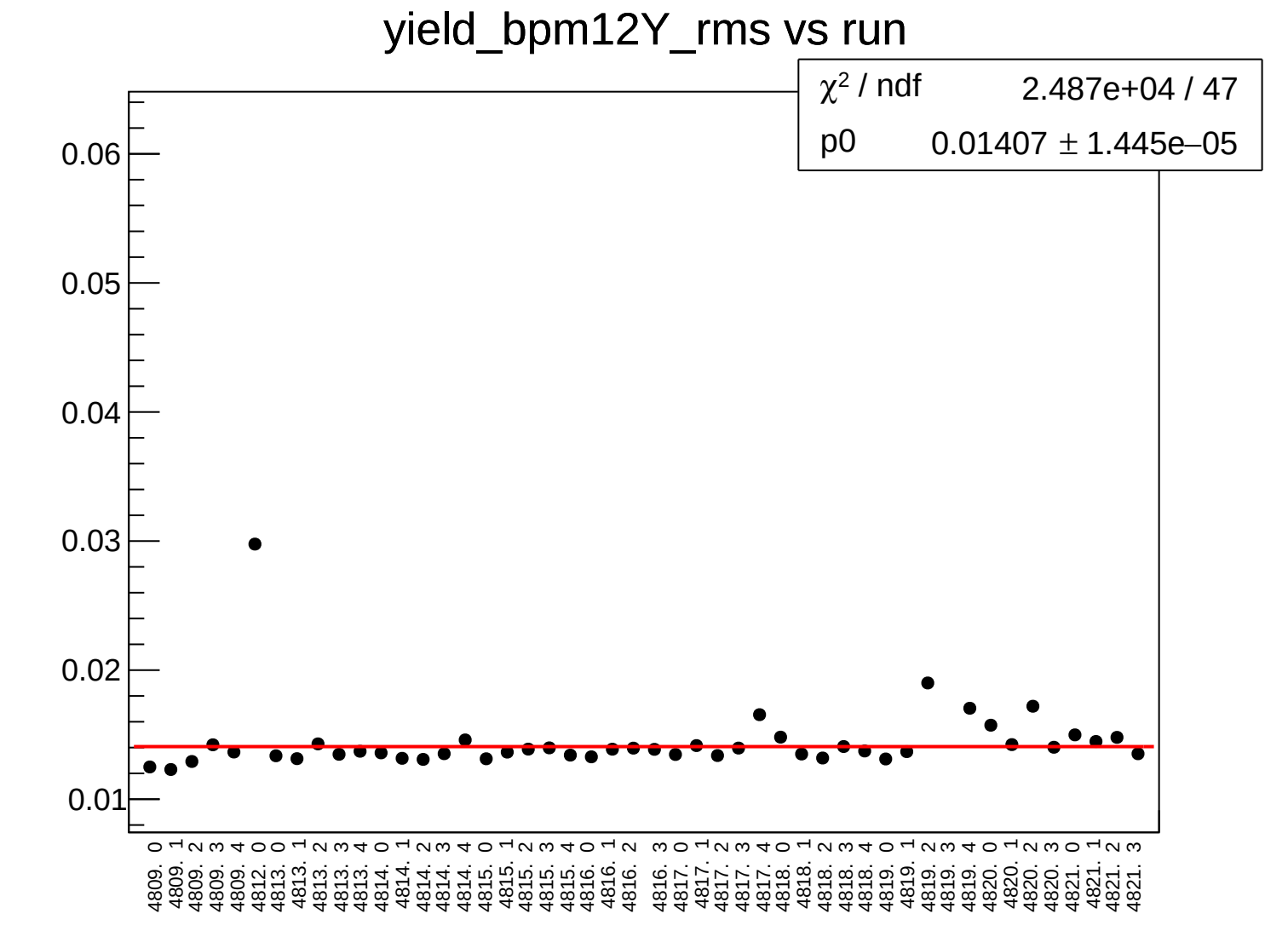
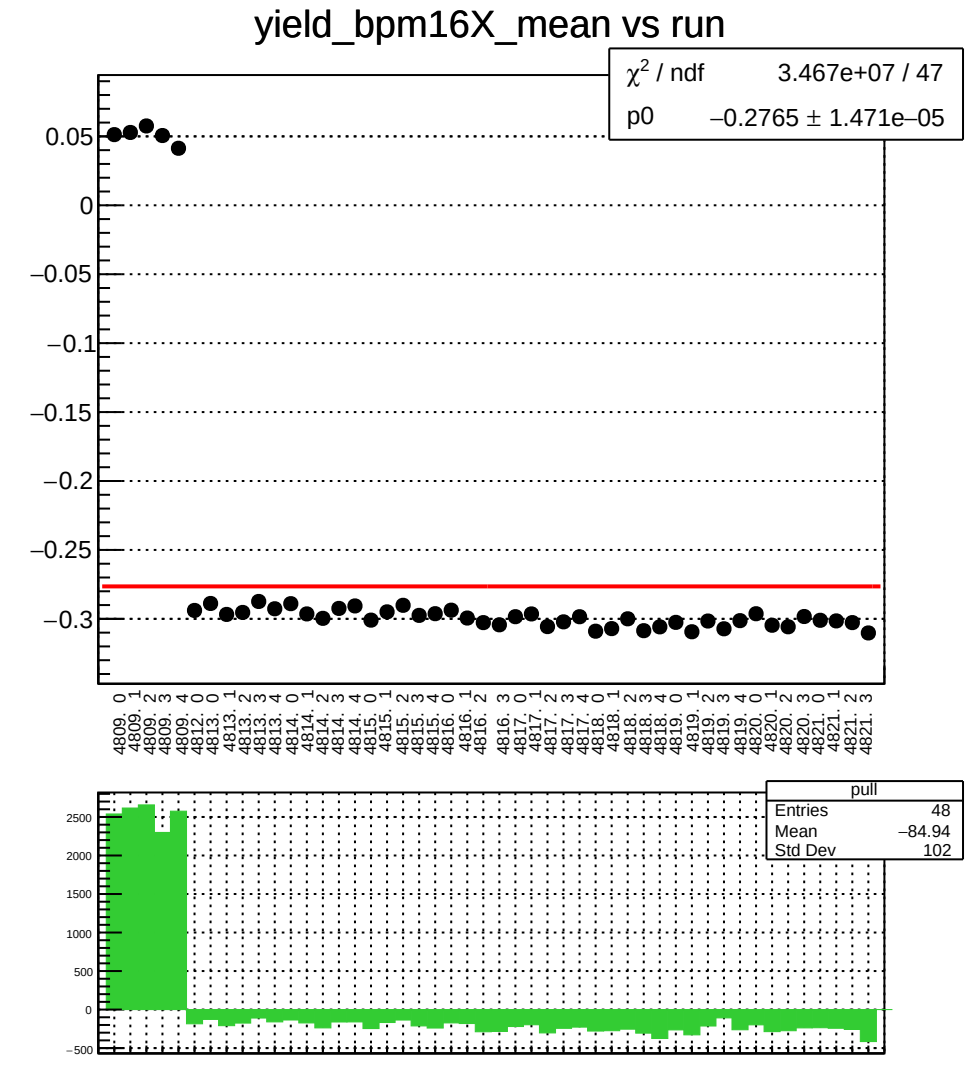
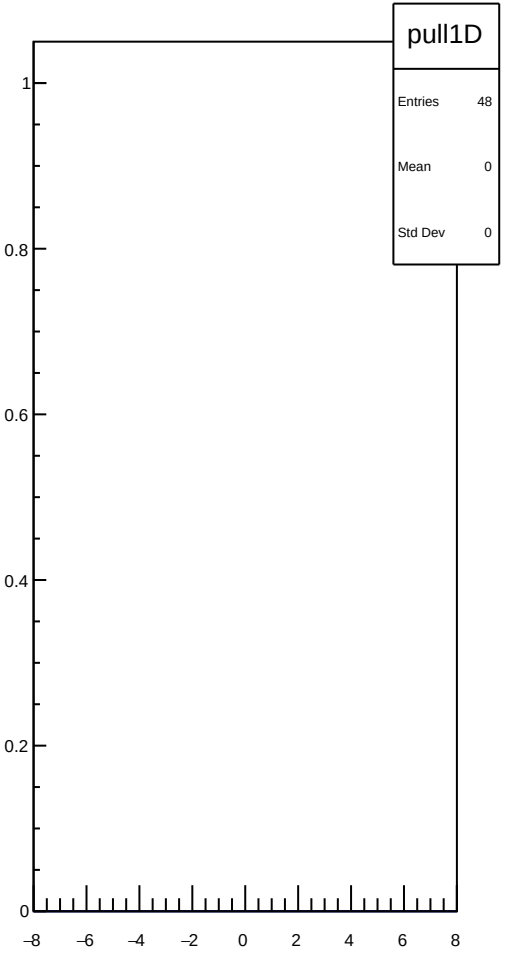
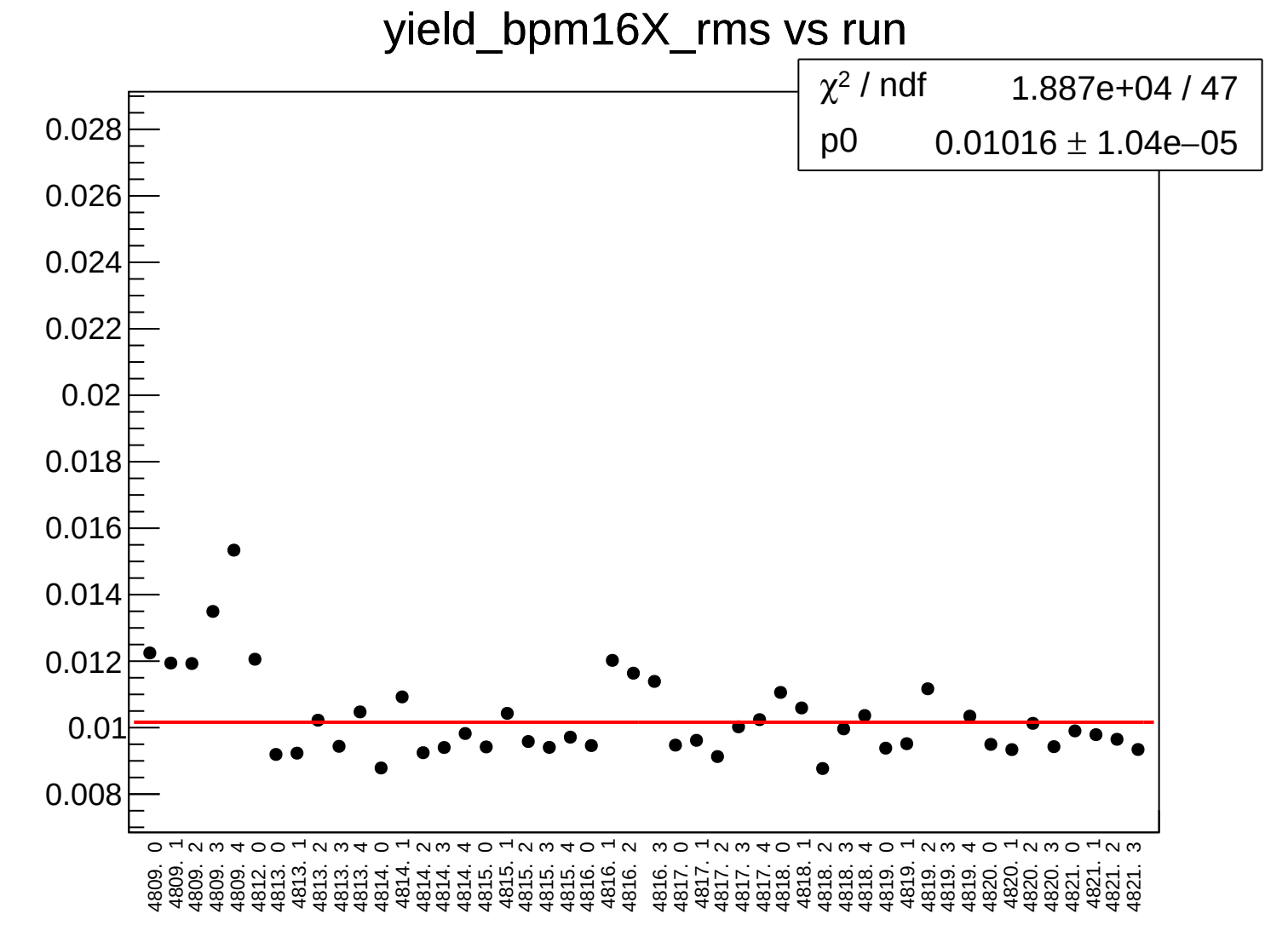
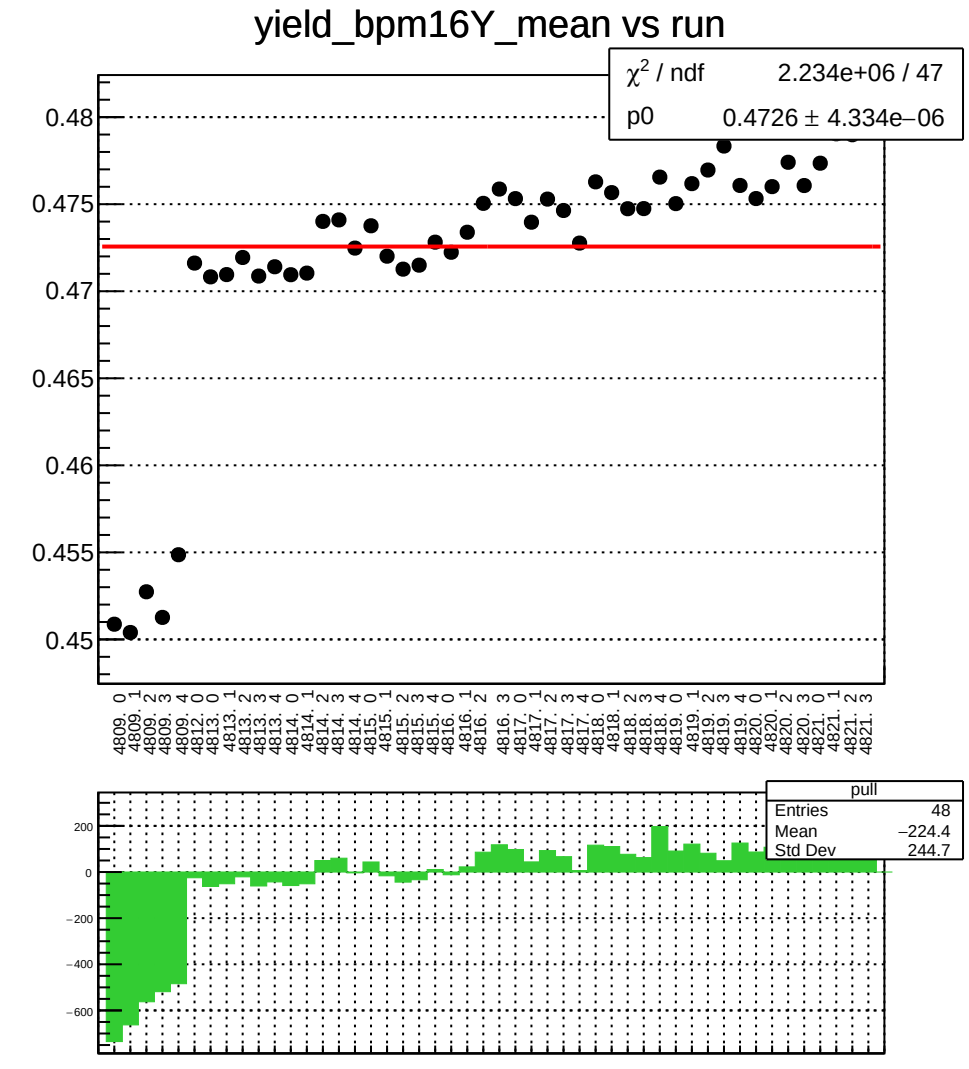
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 280.4
Std Dev 260.7
200
0
−200
−400
−600
−800
−1000
pull1D
Entries 48
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

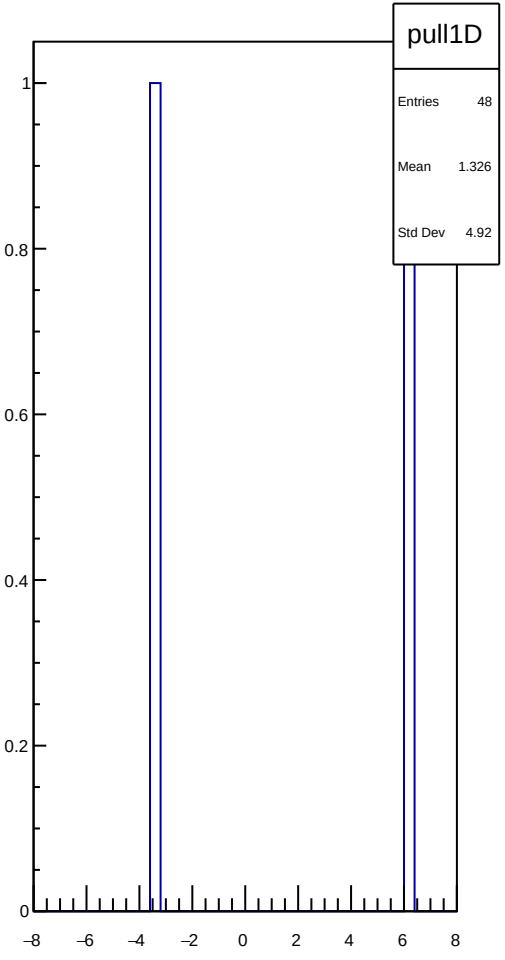

yield_bpm12Y_rms vs run
χ² / ndf 2.487e+04 / 47
p0 0.01407 ± 1.445e–05
0.06
0.05
0.04
0.03
0.02
0.01
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

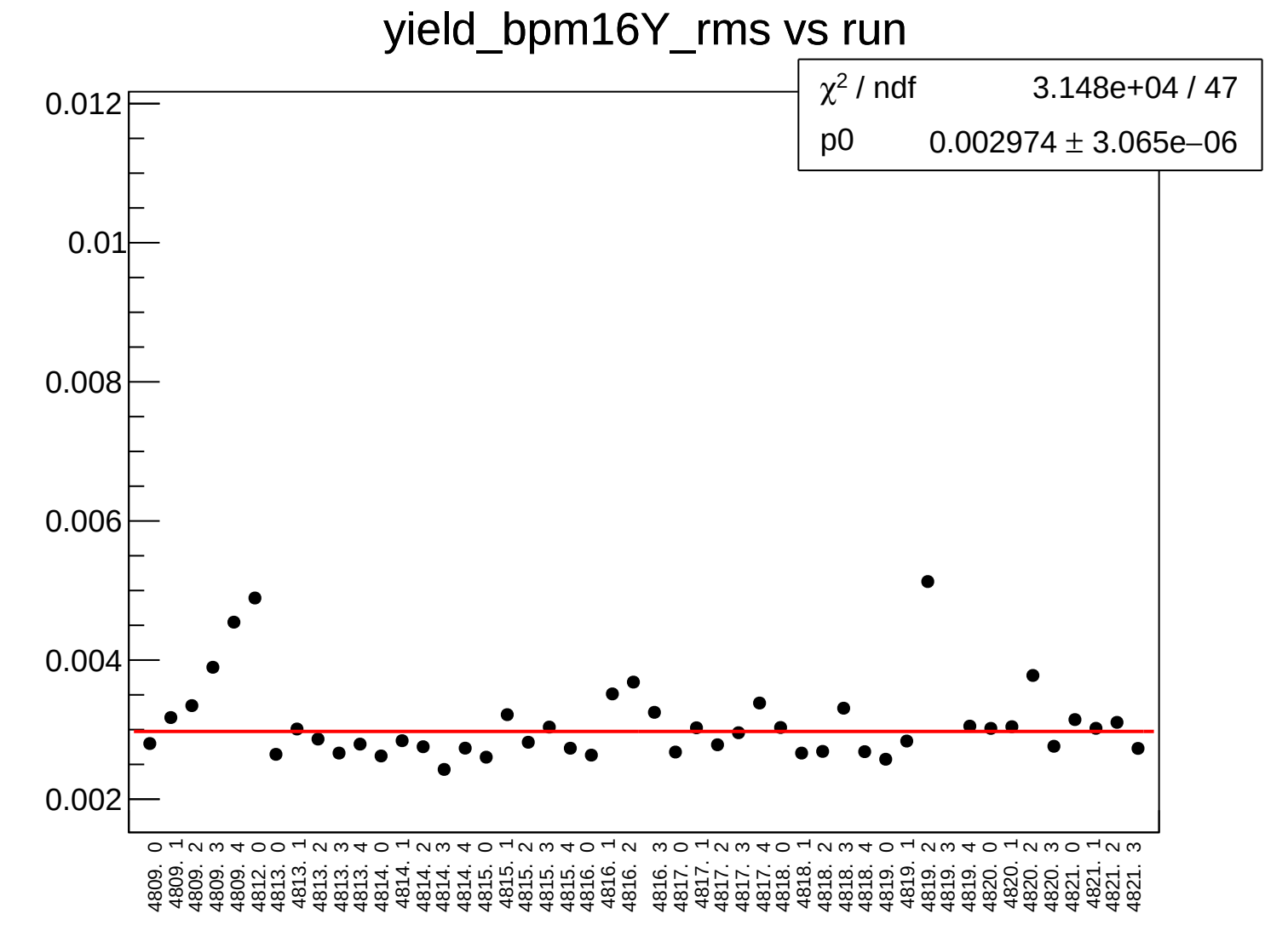

yield_bpm16X_mean vs run
χ² / ndf 3.467e+07 / 47
p0 −0.2765 ± 1.471e−05
0.05
0
−0.05
−0.1
−0.15
−0.2
−0.25
−0.3
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean −84.94
Std Dev 102
2500
2000
1500
1000
500
0
−500

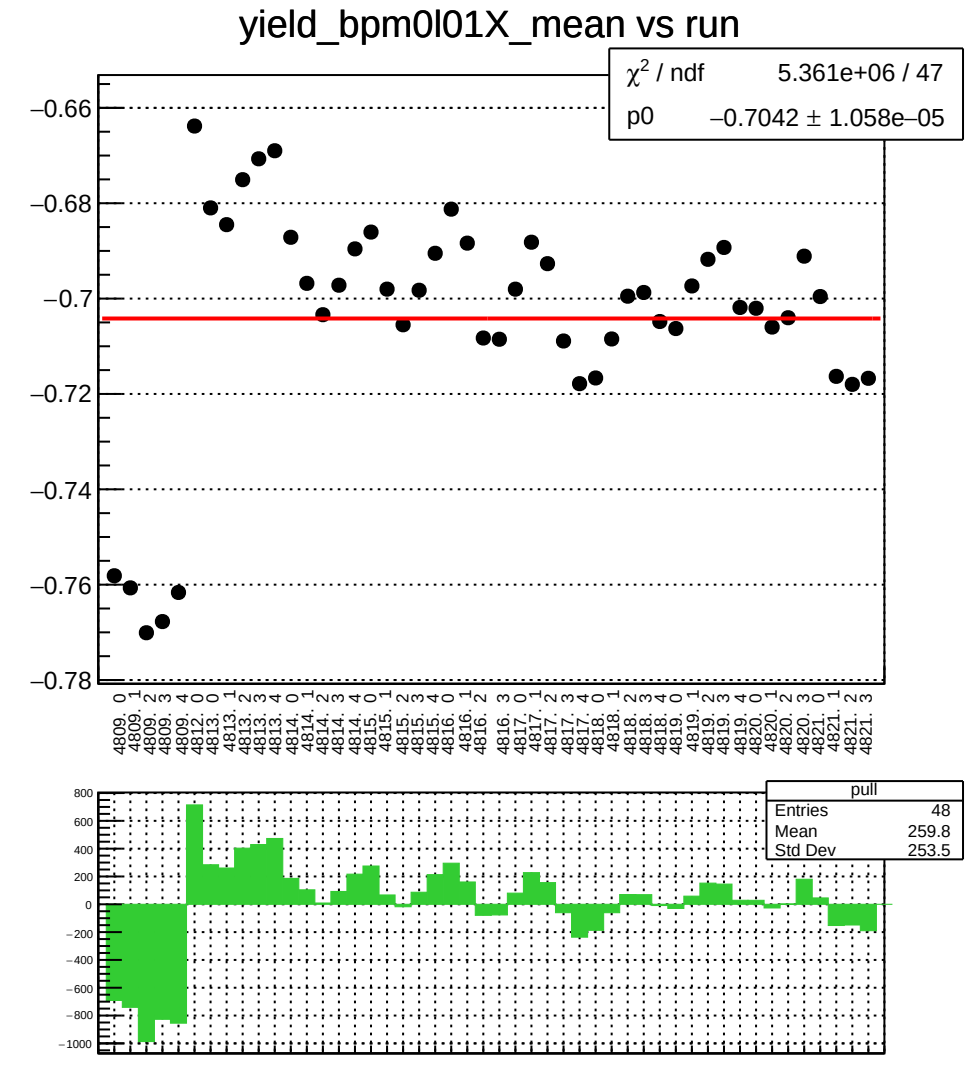

pull1D
Entries 48
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

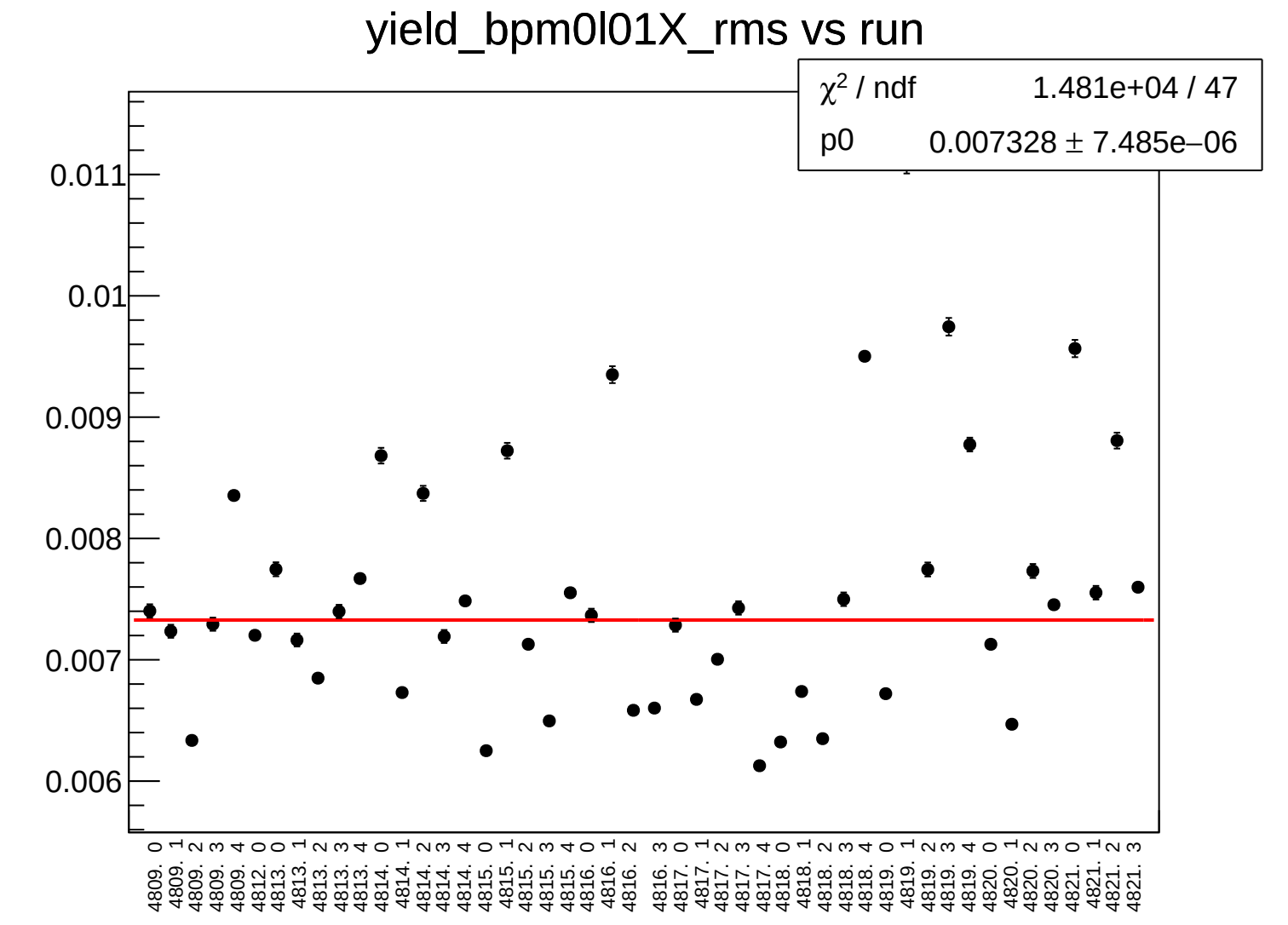

yield_bpm16X_rms vs run
χ² / ndf 1.887e+04 / 47
p0 0.01016 ± 1.04e−05
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

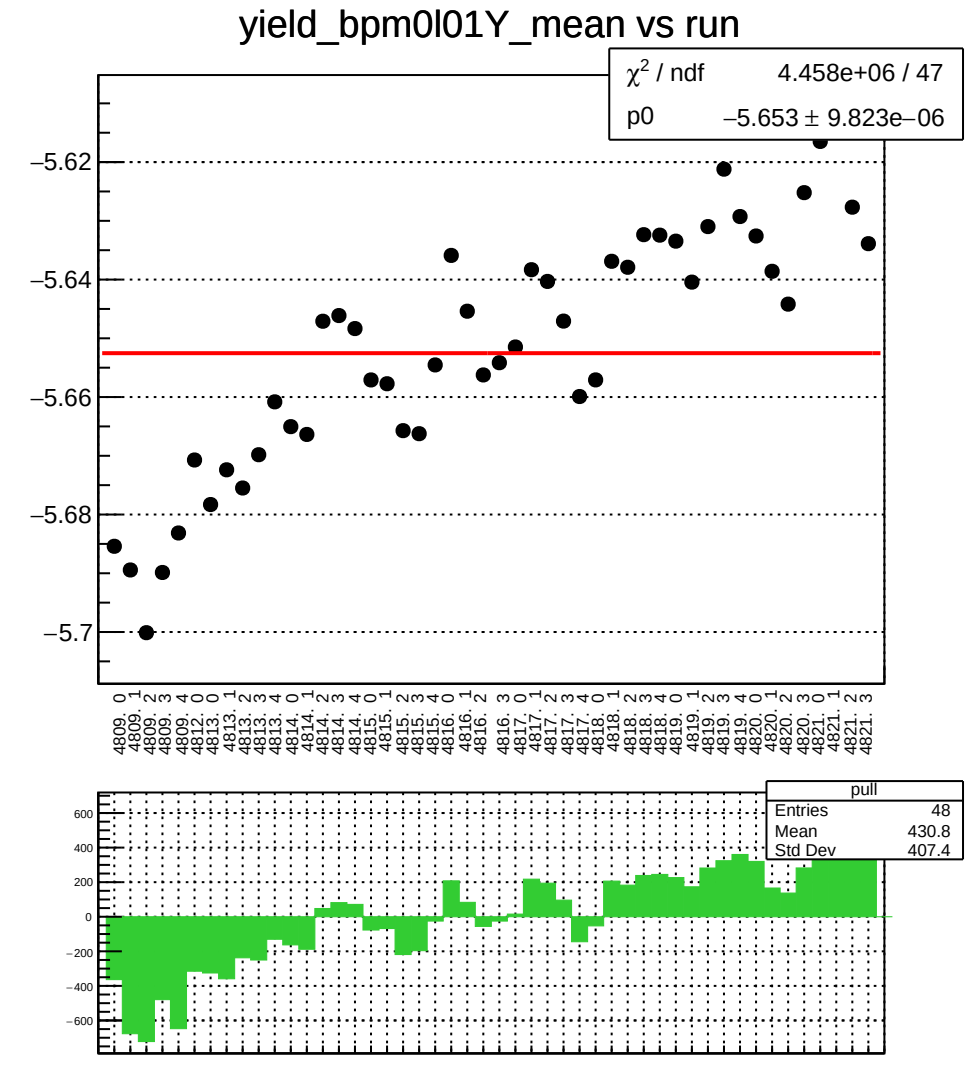

yield_bpm16Y_mean vs run
χ² / ndf 2.234e+06 / 47
p0 0.4726 ± 4.334e−06
0.48
0.475
0.47
0.465
0.46
0.455
0.45
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean −224.4
Std Dev 244.7
200
0
−200
−400
−600

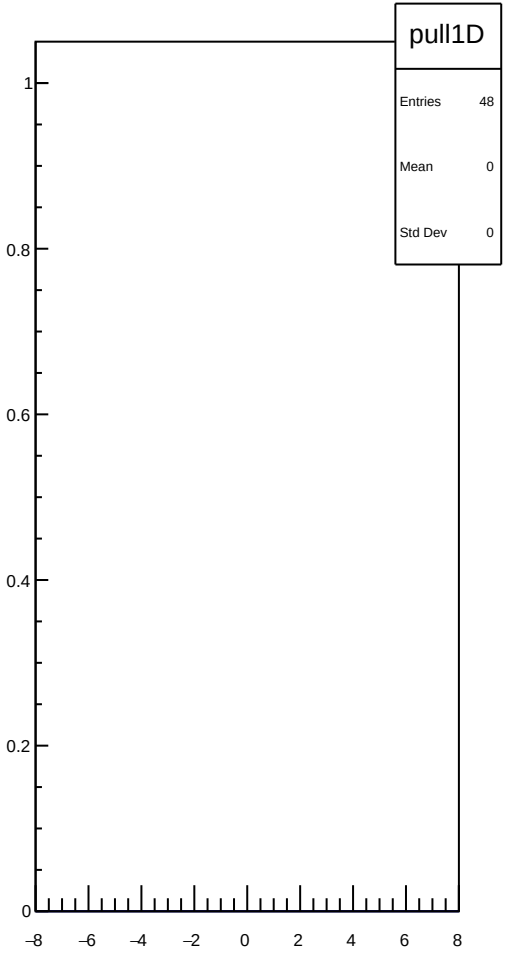

pull1D
Entries 48
Mean 1.326
Std Dev 4.92
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

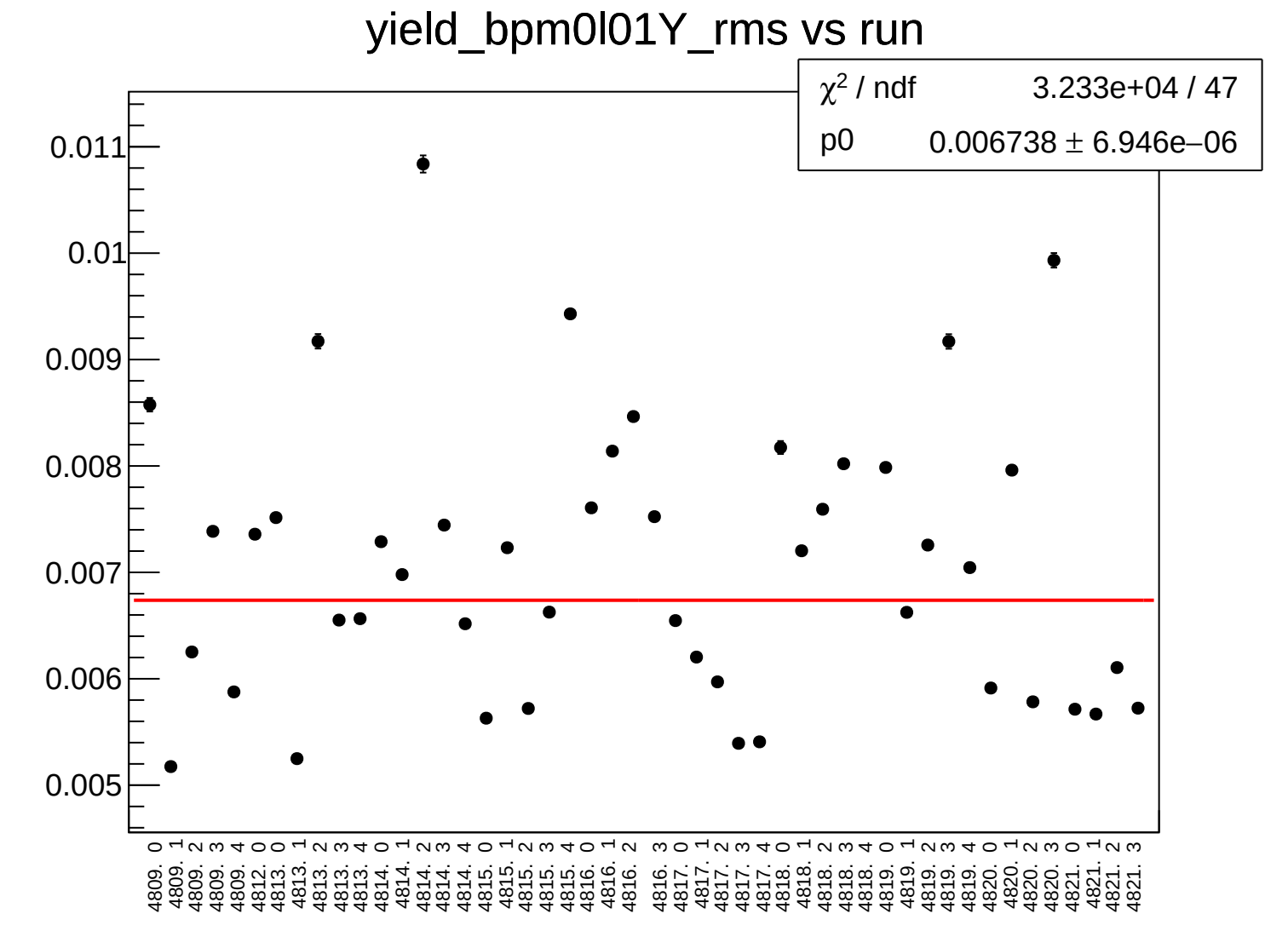

yield_bpm16Y_rms vs run
χ² / ndf 3.148e+04 / 47
p0 0.002974 ± 3.065e−06
0.012
0.01
0.008
0.006
0.004
0.002
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

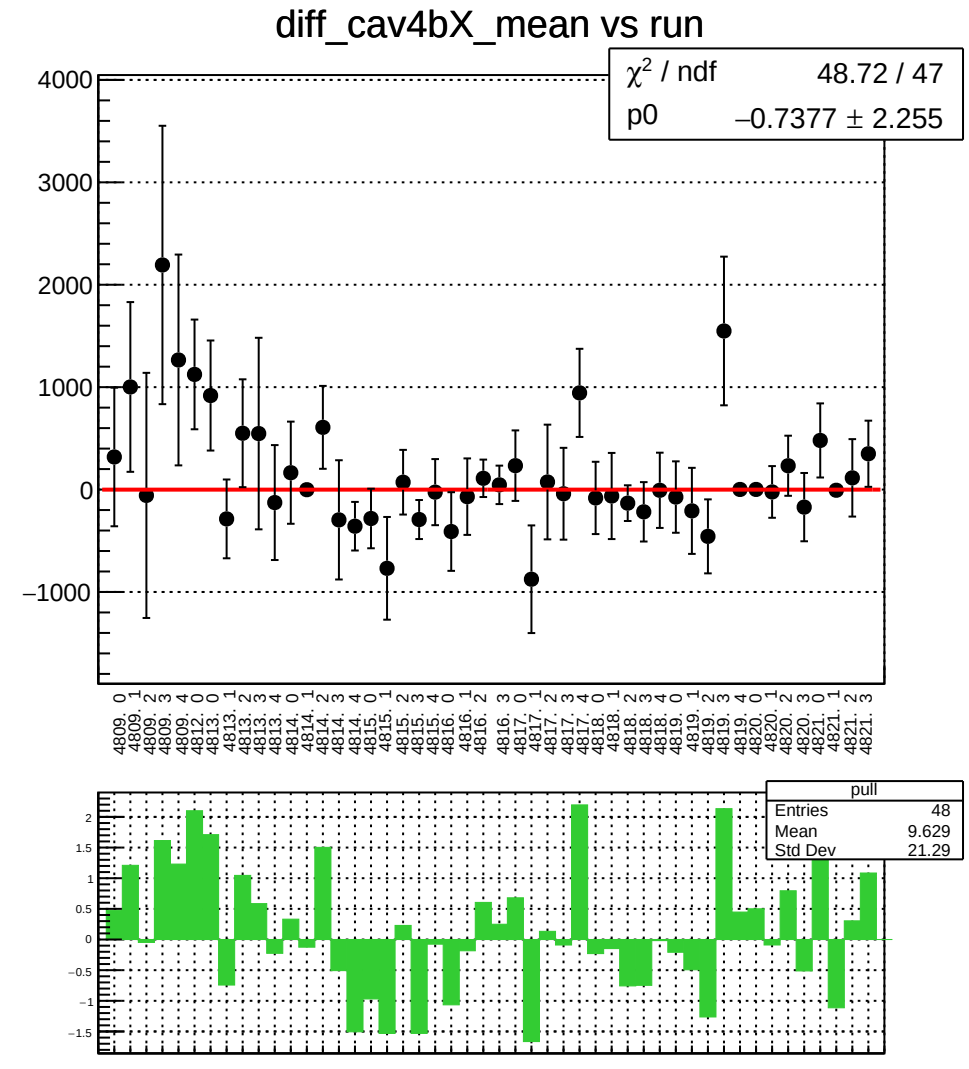

yield_bpm0l01X_mean vs run
χ² / ndf 5.361e+06 / 47
p0 −0.7042 ± 1.058e−05
−0.66
−0.68
−0.7
−0.72
−0.74
−0.76
−0.78
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 259.8
Std Dev 253.5
800
600
400
200
0
−200
−400
−600
−800
−1000
pull1D
Entries 48
Mean 2.009
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

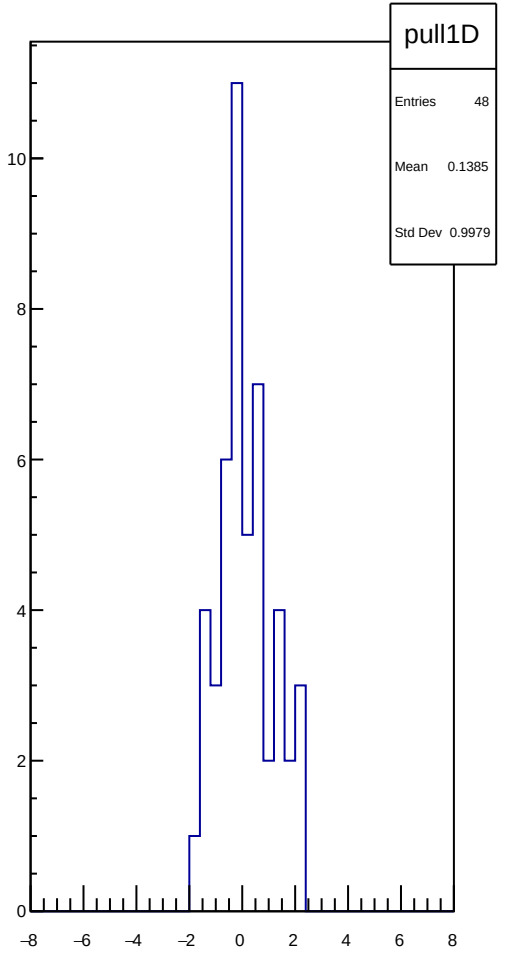

yield_bpm0l01X_rms vs run
χ² / ndf 1.481e+04 / 47
p0 0.007328 ± 7.485e−06
0.011
0.01
0.009
0.008
0.007
0.006
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

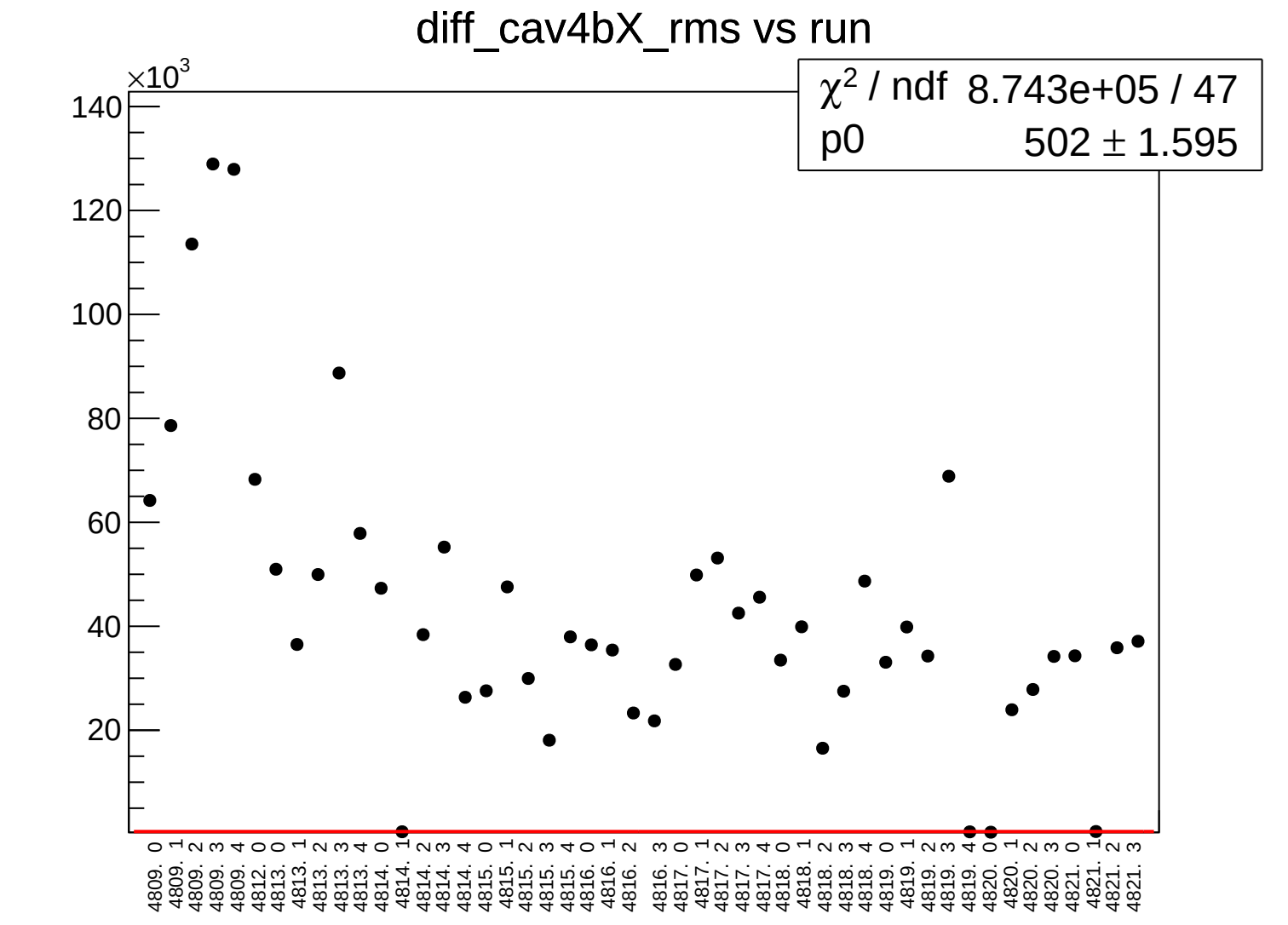

yield_bpm0l01Y_mean vs run
χ² / ndf 4.458e+06 / 47
p0 −5.653 ± 9.823e−06
−5.62
−5.64
−5.66
−5.68
−5.7
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 430.8
Std Dev 407.4
600
400
200
0
−200
−400
−600

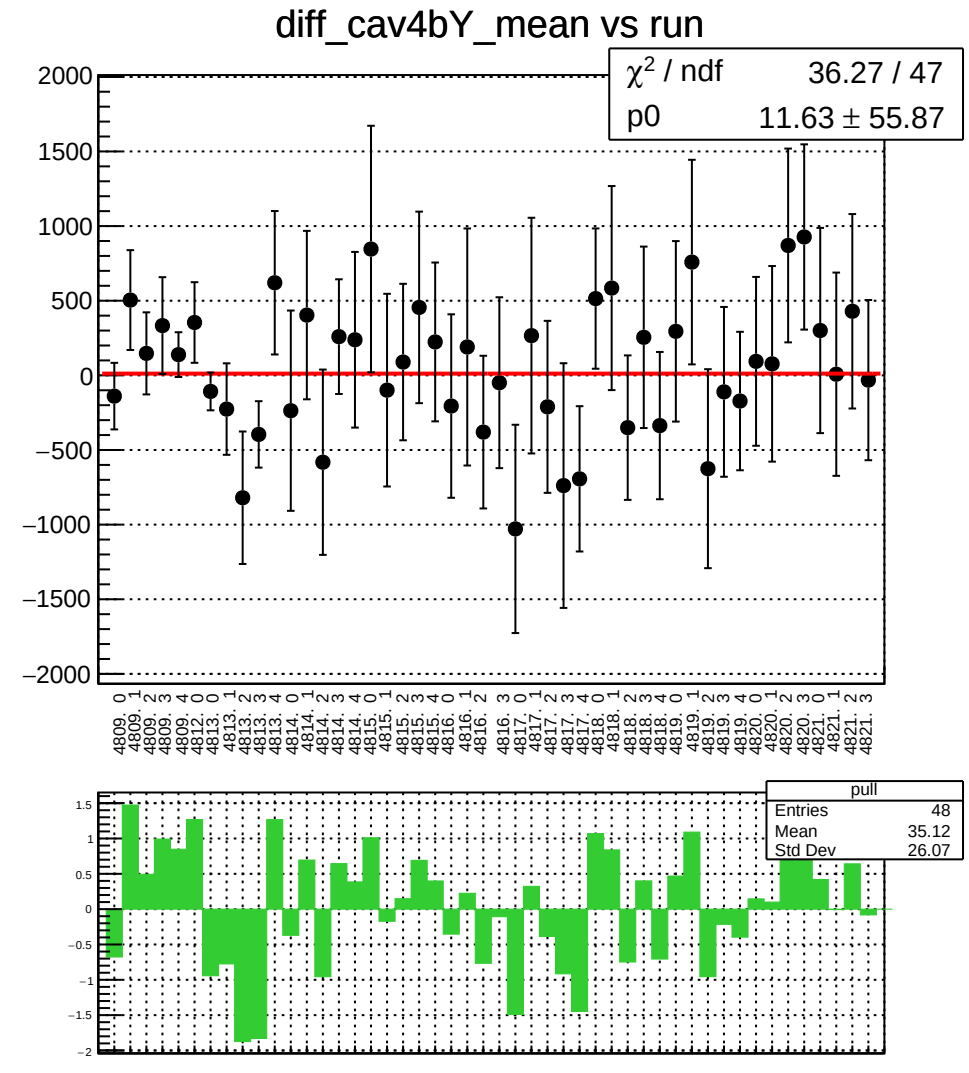

pull1D
Entries 48
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

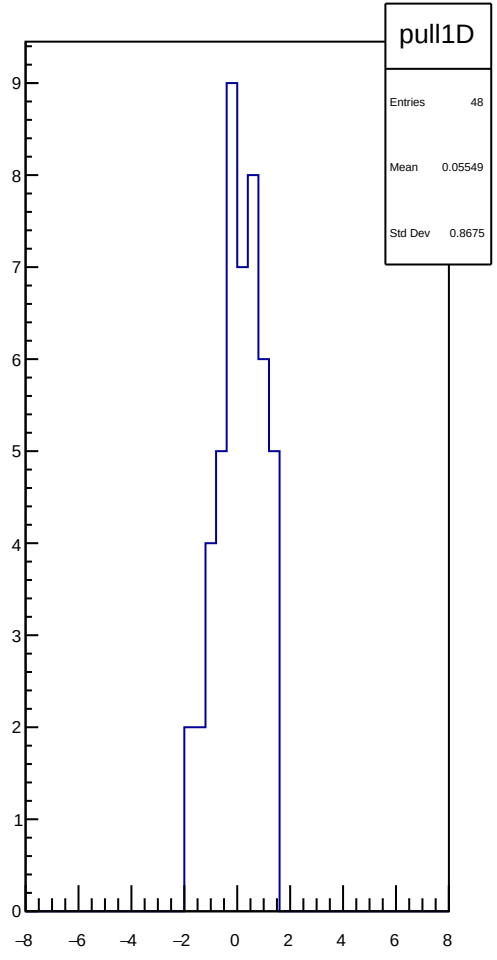

yield_bpm0l01Y_rms vs run
χ² / ndf 3.233e+04 / 47
p0 0.006738 ± 6.946e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

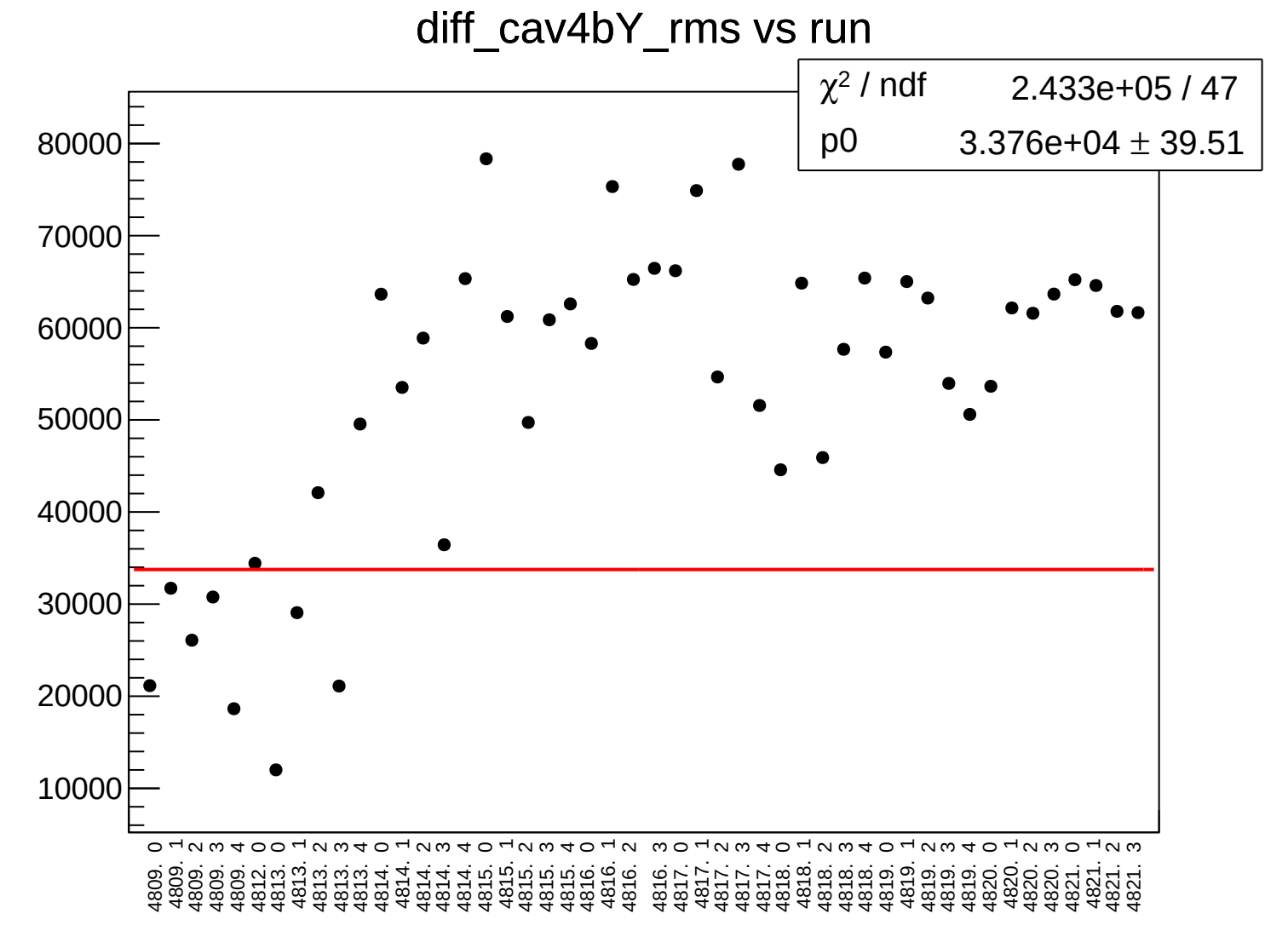

diff_cav4bX_mean vs run
χ² / ndf 48.72 / 47
p0 −0.7377 ± 2.255
4000
3000
2000
1000
0
−1000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 9.629
Std Dev 21.29
2
1.5
1
0.5
0
−0.5
−1
−1.5

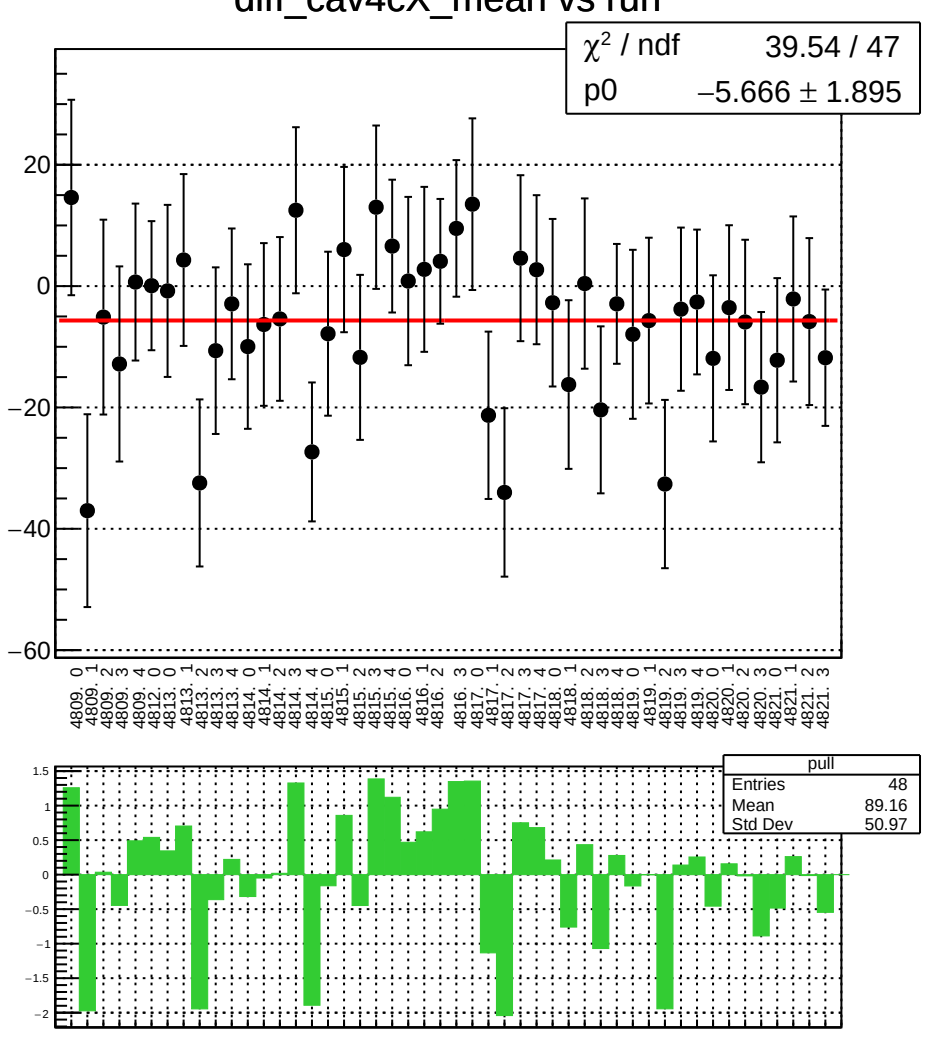

pull1D
Entries 48
Mean 0.1385
Std Dev 0.9979
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

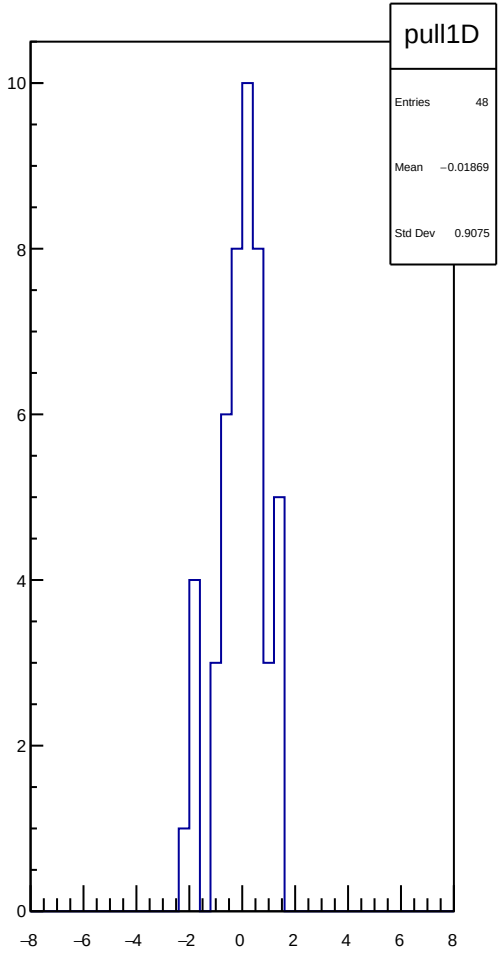

diff_cav4bX_rms vs run
×10^3
χ^2 / ndf 8.743e+05 / 47
p0 502 ± 1.595
140
120
100
80
60
40
20
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

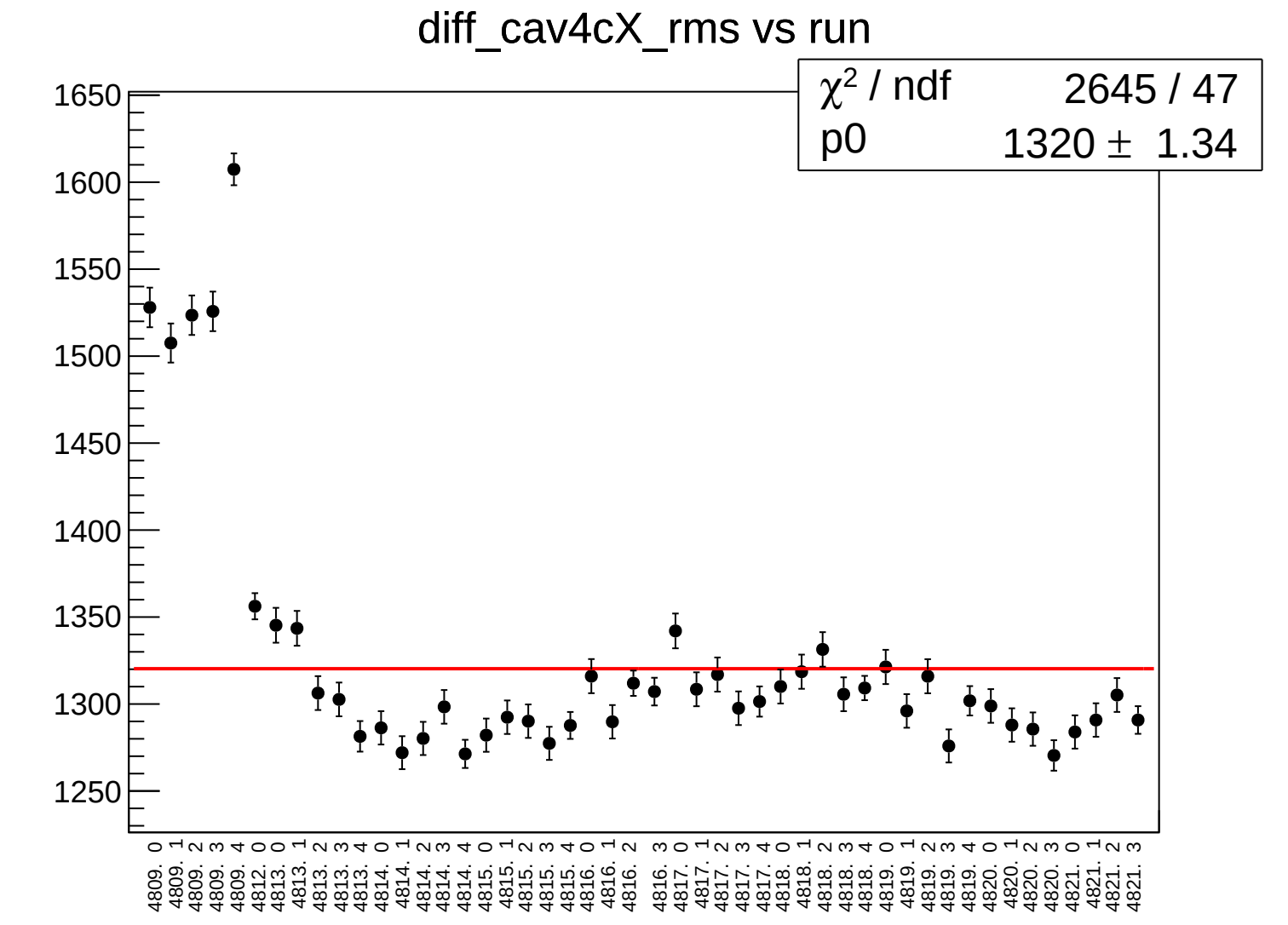

diff_cav4bY_mean vs run
χ^2 / ndf 36.27 / 47
p0 11.63 ± 55.87
pull
Entries 48
Mean 35.12
Std Dev 26.07

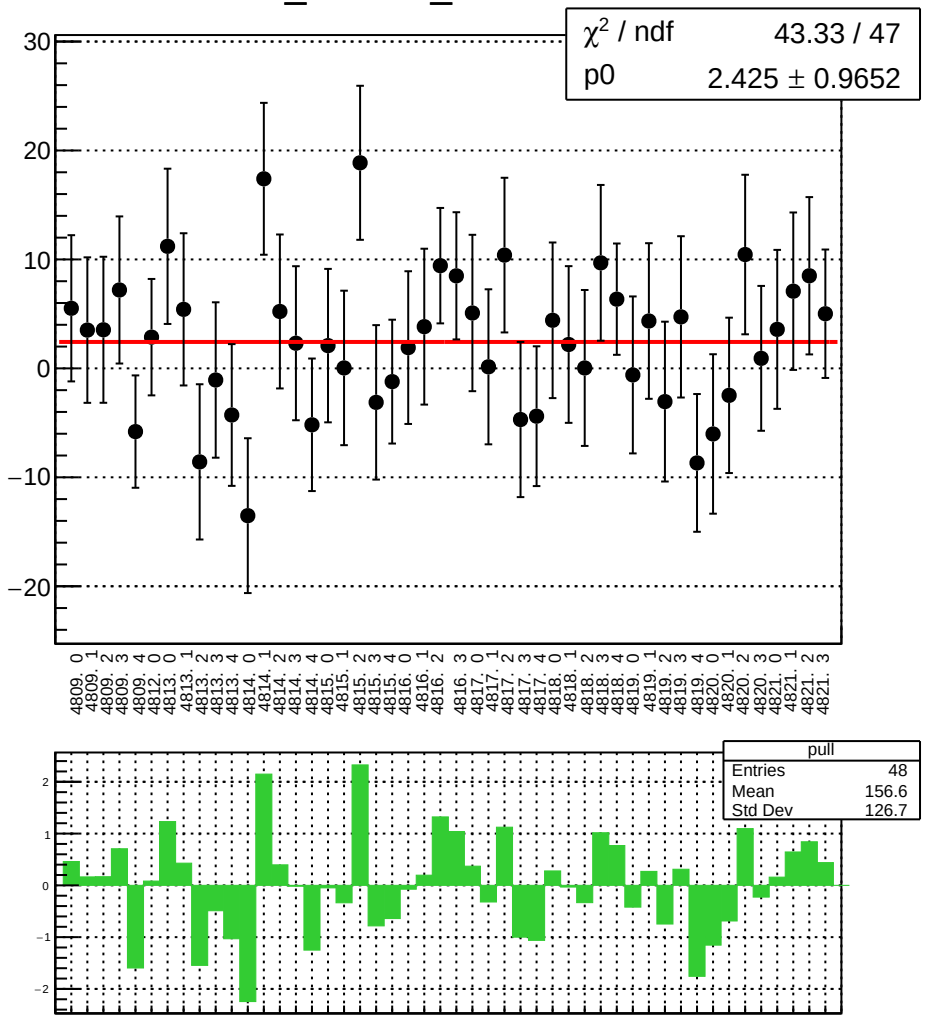

pull1D
Entries 48
Mean 0.05549
Std Dev 0.8675

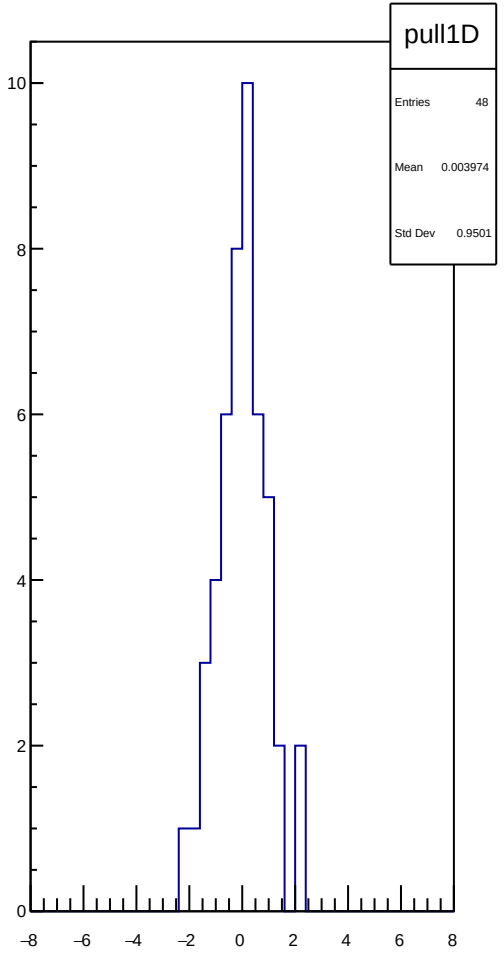

diff_cav4bY_rms vs run
χ² / ndf 2.433e+05 / 47
p0 3.376e+04 ± 39.51
80000
70000
60000
50000
40000
30000
20000
10000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

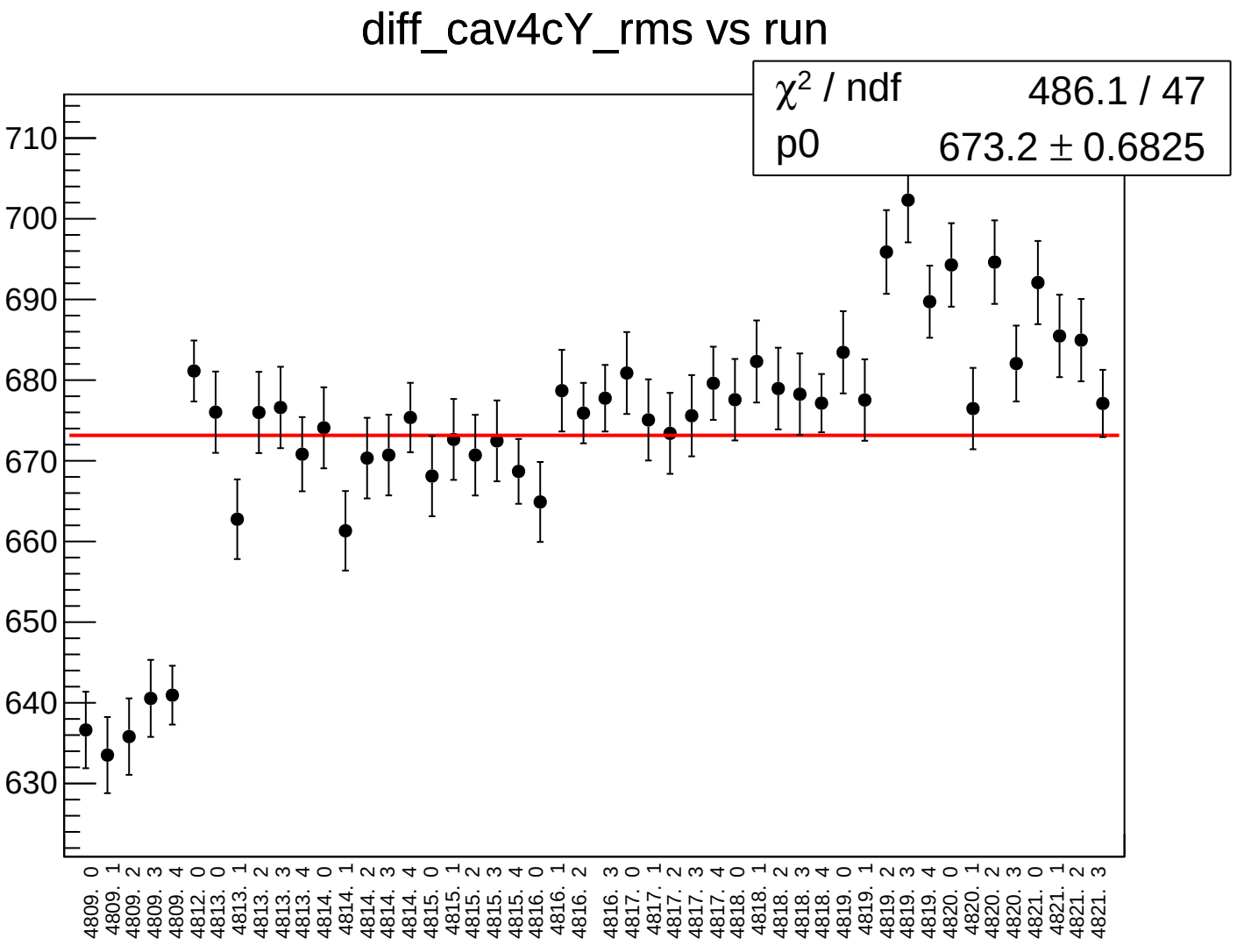

diff_cav4cX_mean vs run
χ² / ndf 39.54 / 47
p0 −5.666 ± 1.895
pull
Entries 48
Mean 89.16
Std Dev 50.97

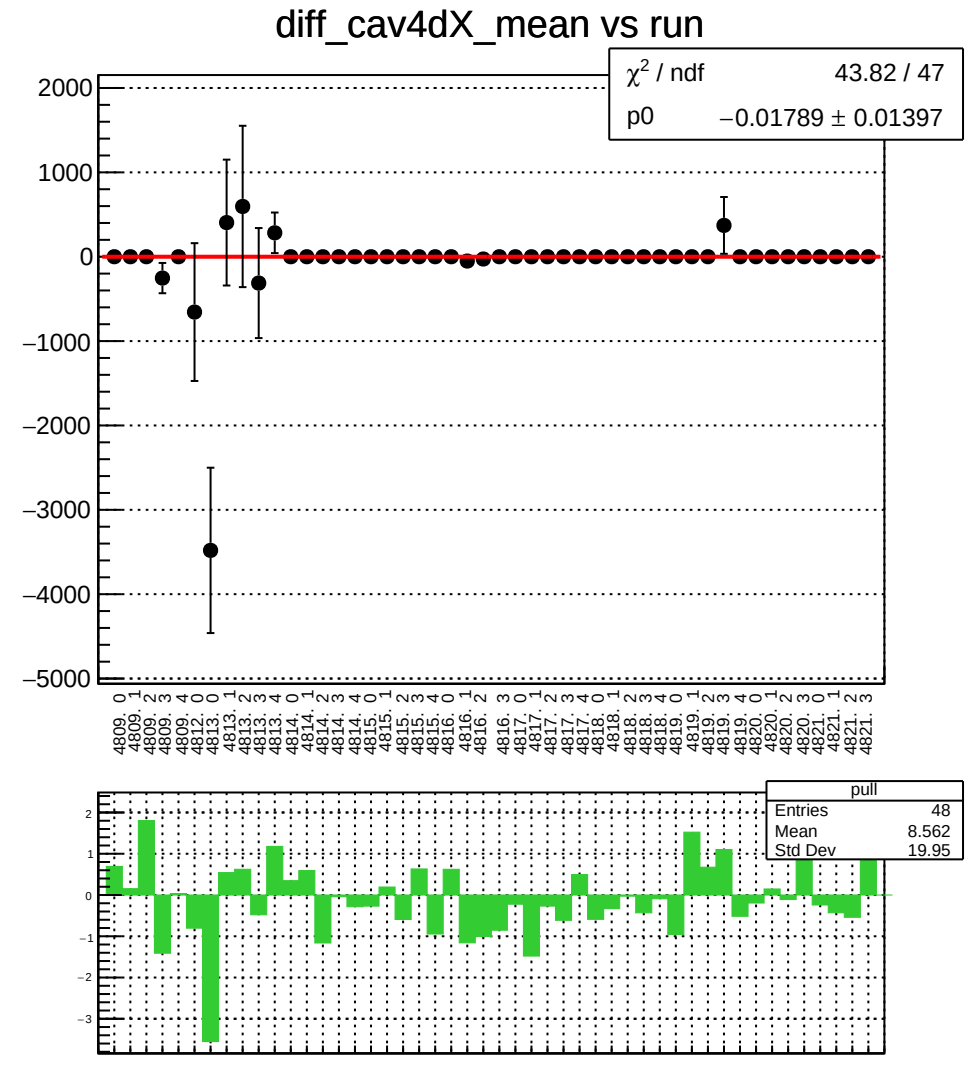

pull1D
Entries 48
Mean −0.01869
Std Dev 0.9075

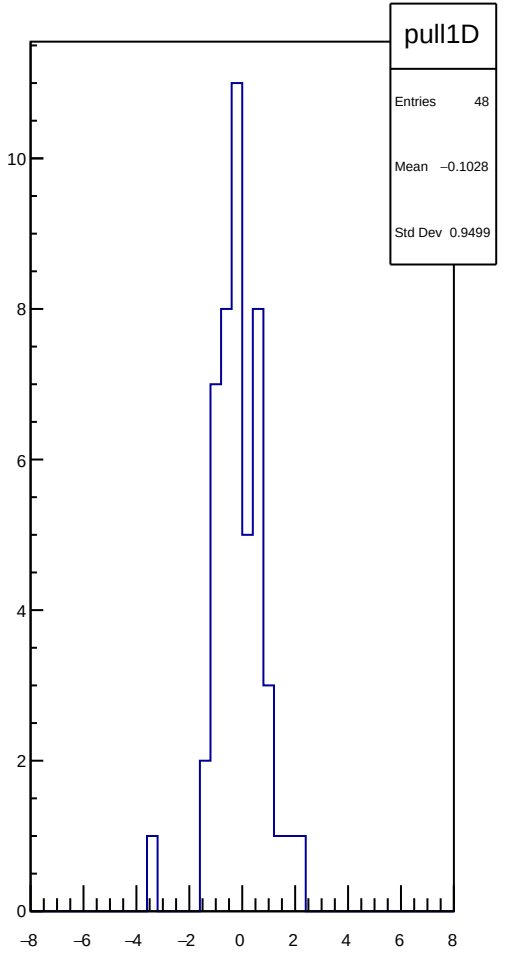

diff_cav4cX_rms vs run
χ² / ndf 2645 / 47
p0 1320 ± 1.34
1650
1600
1550
1500
1450
1400
1350
1300
1250
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

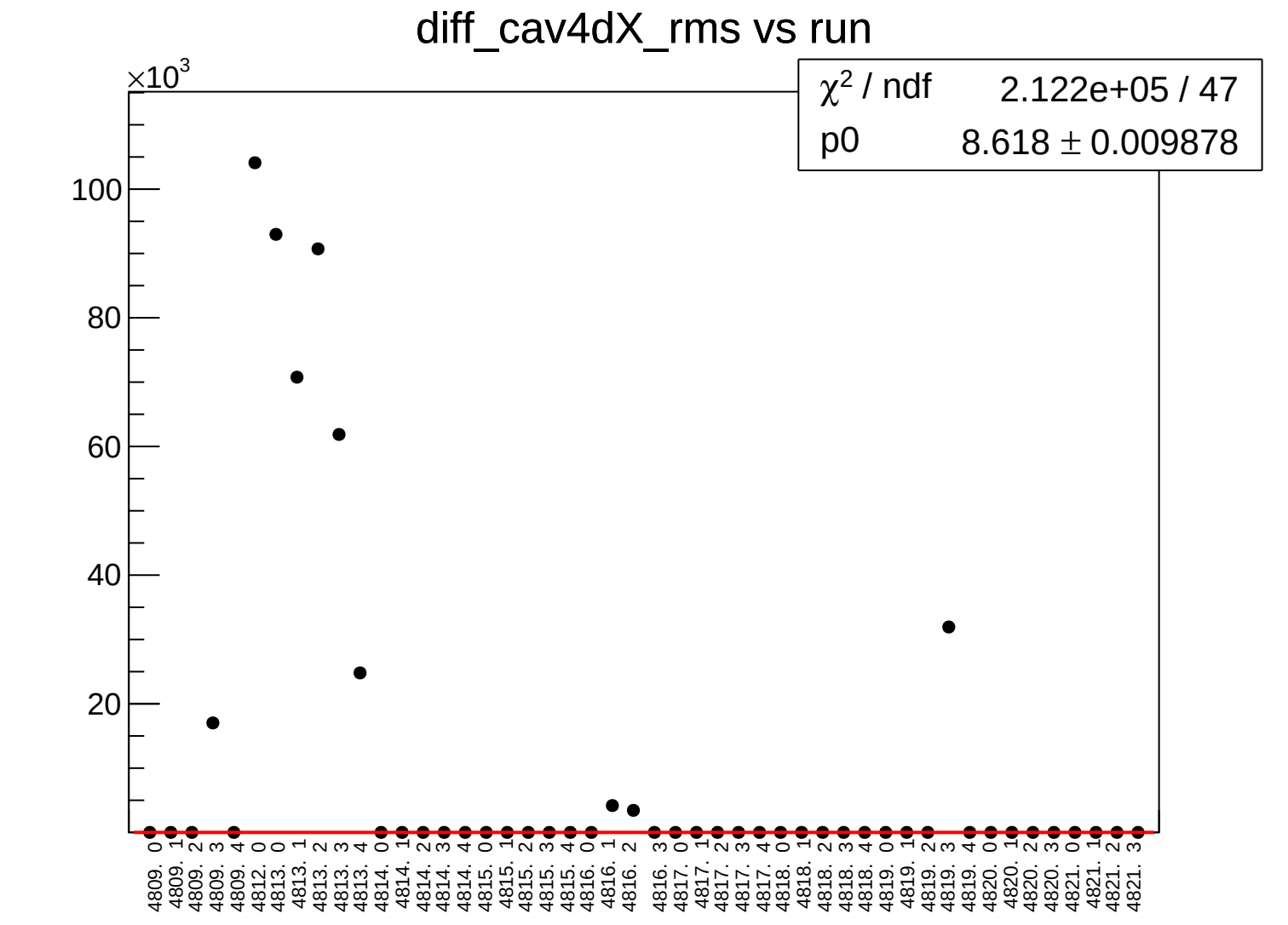

diff_cav4cY_mean vs run
χ^2 / ndf 43.33 / 47
p0 2.425 ± 0.9652
pull
Entries 48
Mean 156.6
Std Dev 126.7

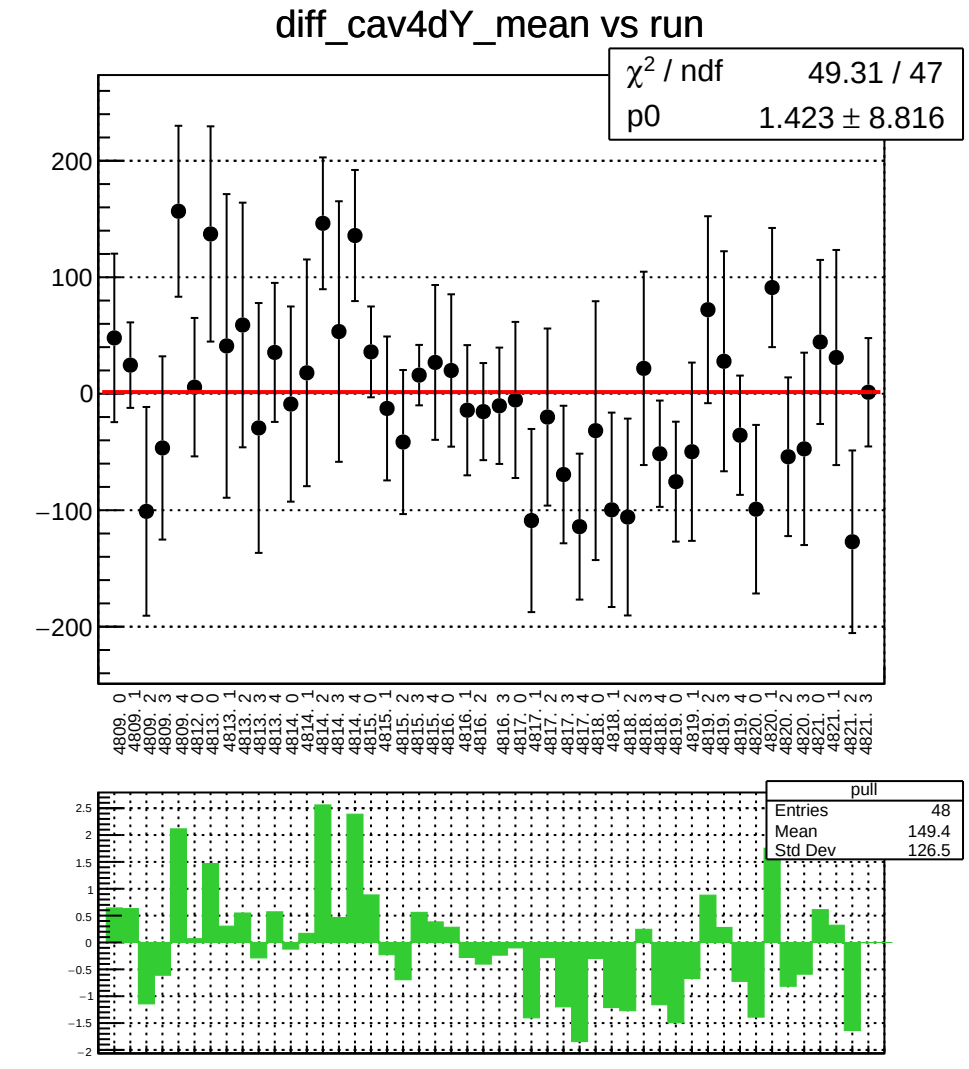

pull1D
Entries 48
Mean 0.003974
Std Dev 0.9501

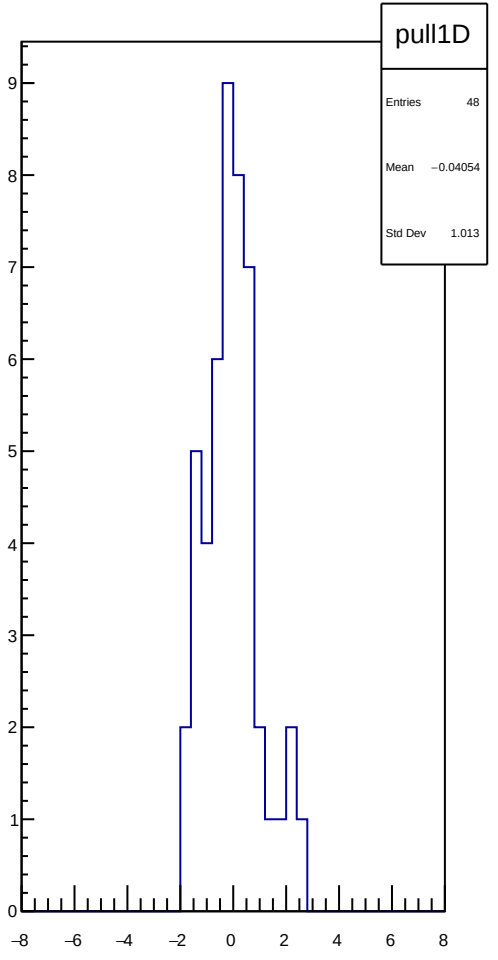

diff_cav4cY_rms vs run
χ² / ndf 486.1 / 47
p0 673.2 ± 0.6825
710
700
690
680
670
660
650
640
630
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

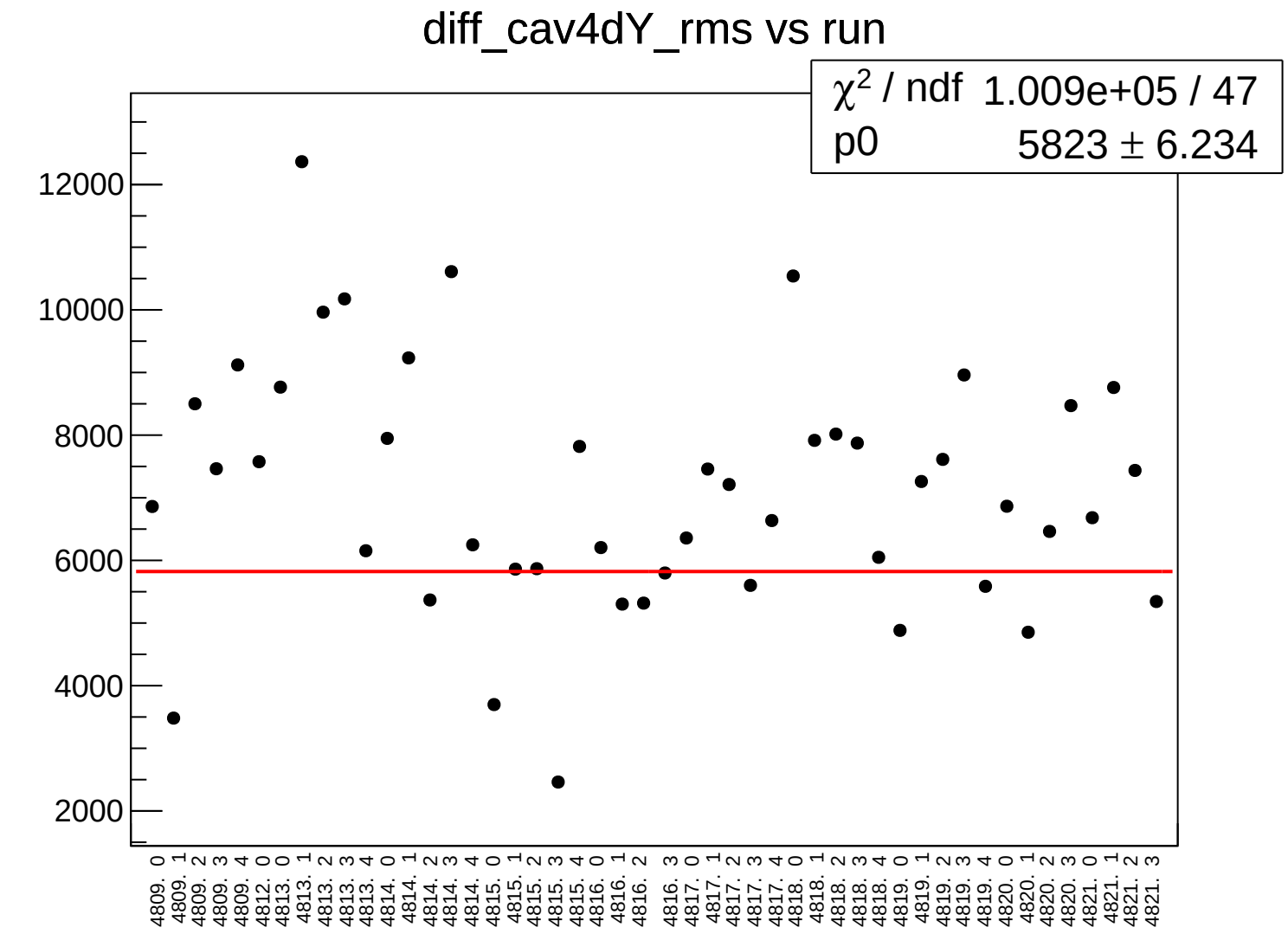

diff_cav4dX_mean vs run
χ² / ndf 43.82 / 47
p0 −0.01789 ± 0.01397
2000
1000
0
−1000
−2000
−3000
−4000
−5000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4820. 4
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 8.562
Std Dev 19.95
2
1
0
−1
−2
−3

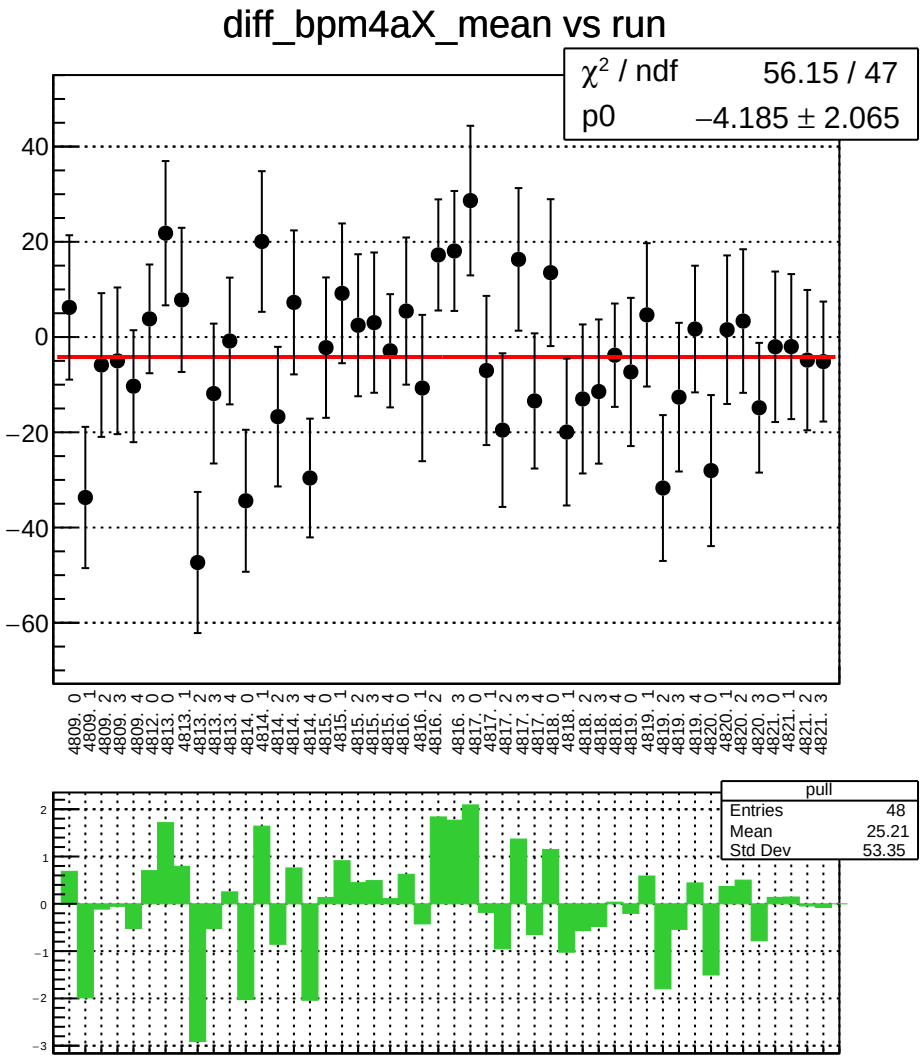

pull1D
Entries 48
Mean −0.1028
Std Dev 0.9499
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

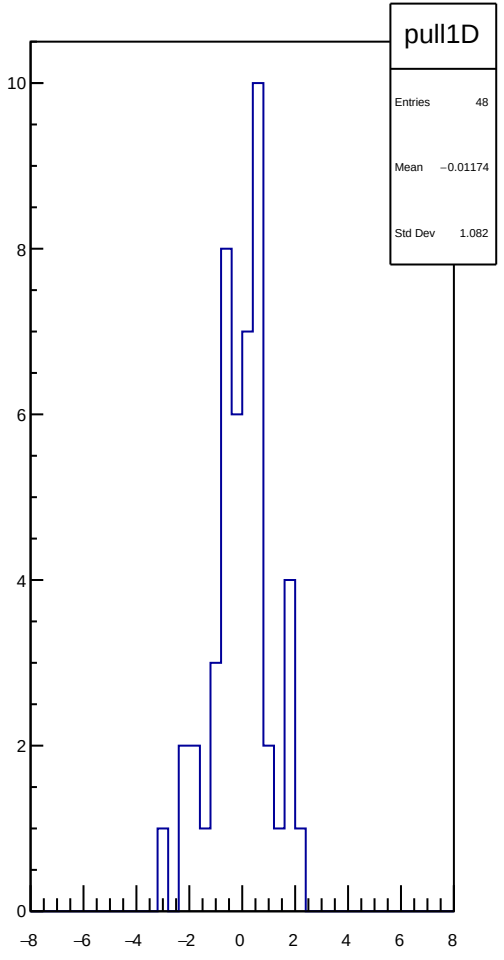

diff_cav4dX_rms vs run
×10^3
χ^2 / ndf 2.122e+05 / 47
p0 8.618 ± 0.009878
100
80
60
40
20
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

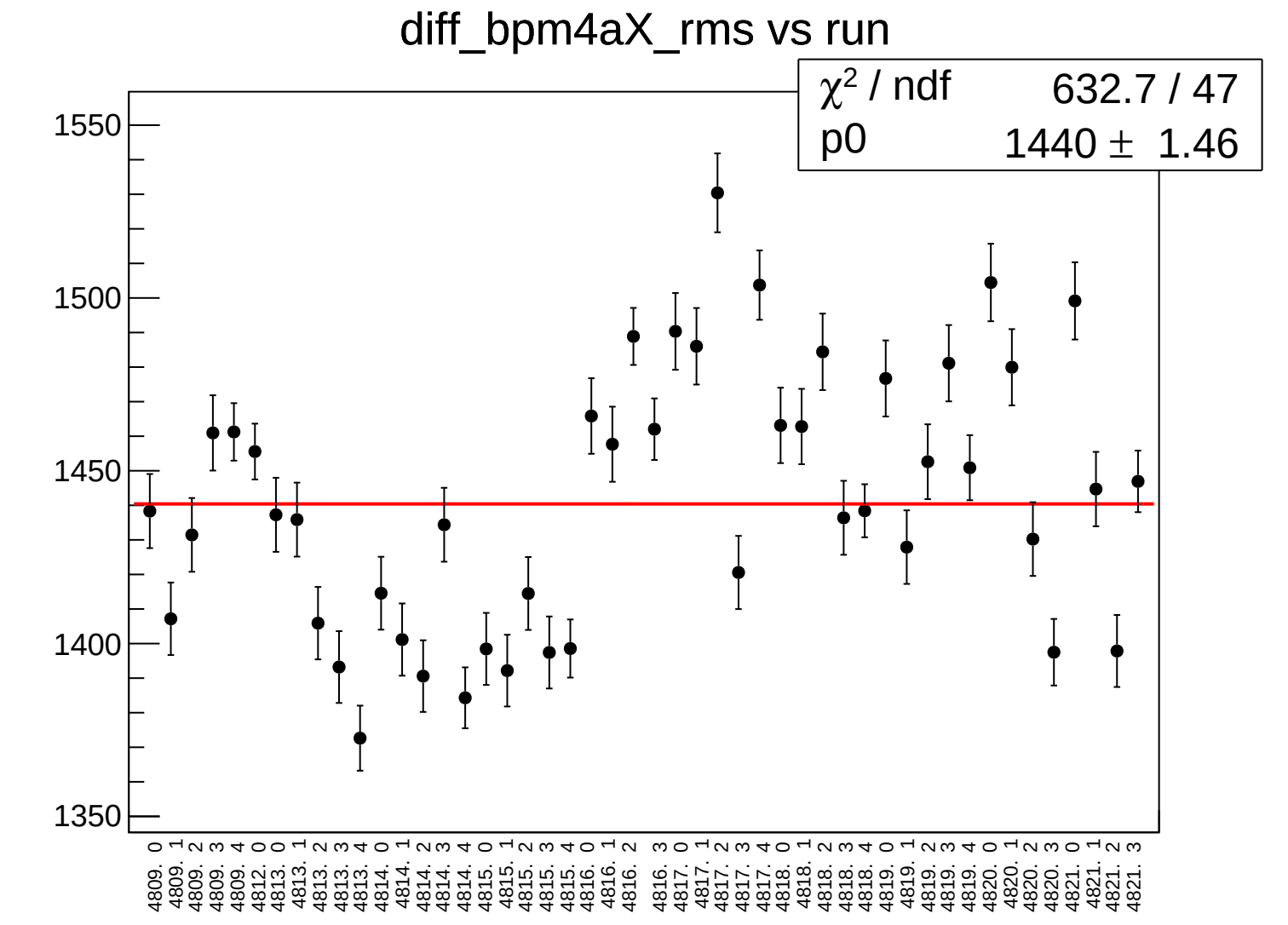

diff_cav4dY_mean vs run
χ² / ndf 49.31 / 47
p0 1.423 ± 8.816
200
100
0
−100
−200
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 149.4
Std Dev 126.5
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

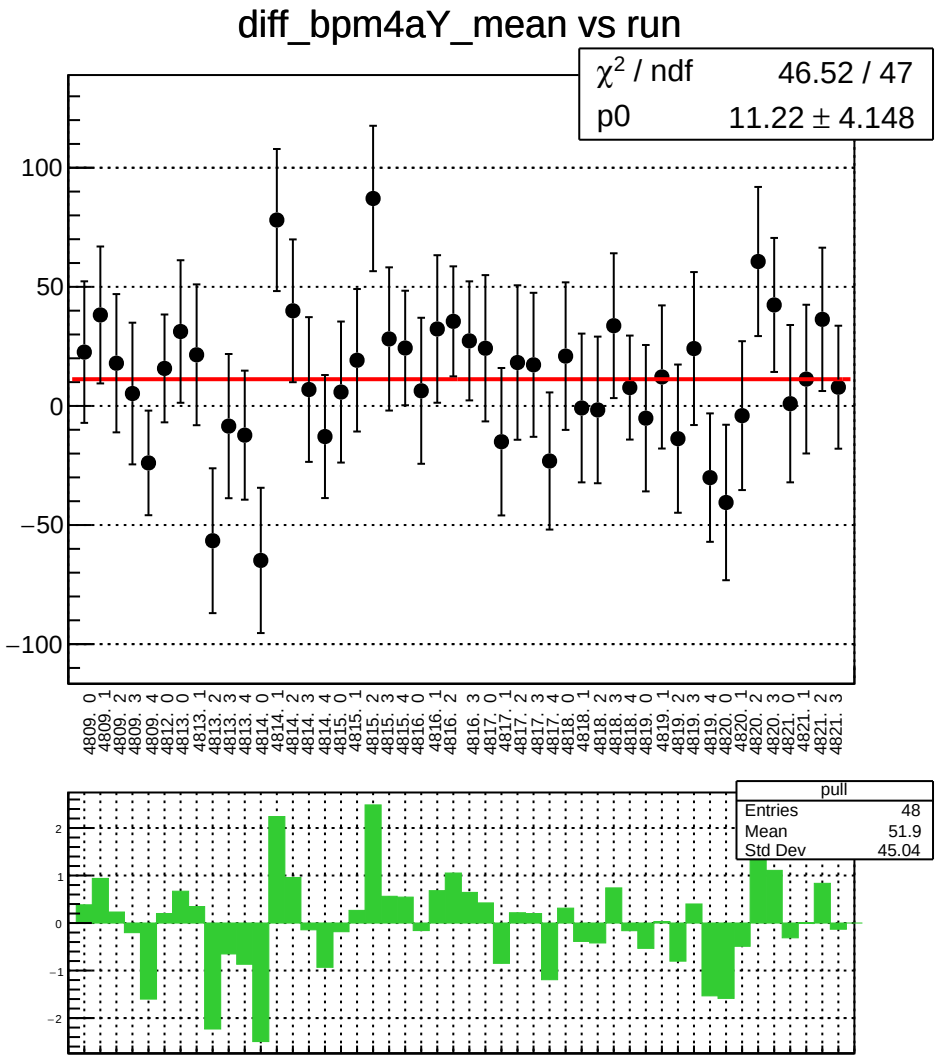

pull1D
Entries 48
Mean −0.04054
Std Dev 1.013
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

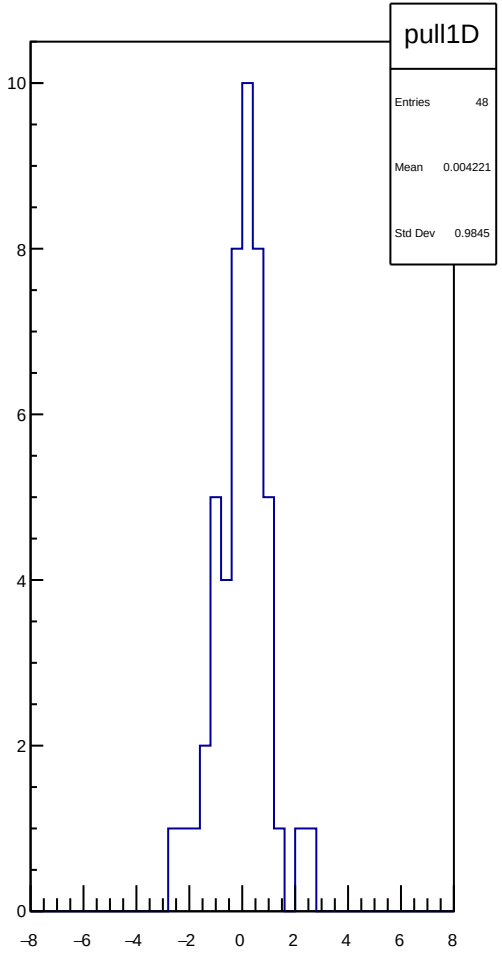

diff_cav4dY_rms vs run
χ² / ndf 1.009e+05 / 47
p0 5823 ± 6.234
12000
10000
8000
6000
4000
2000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

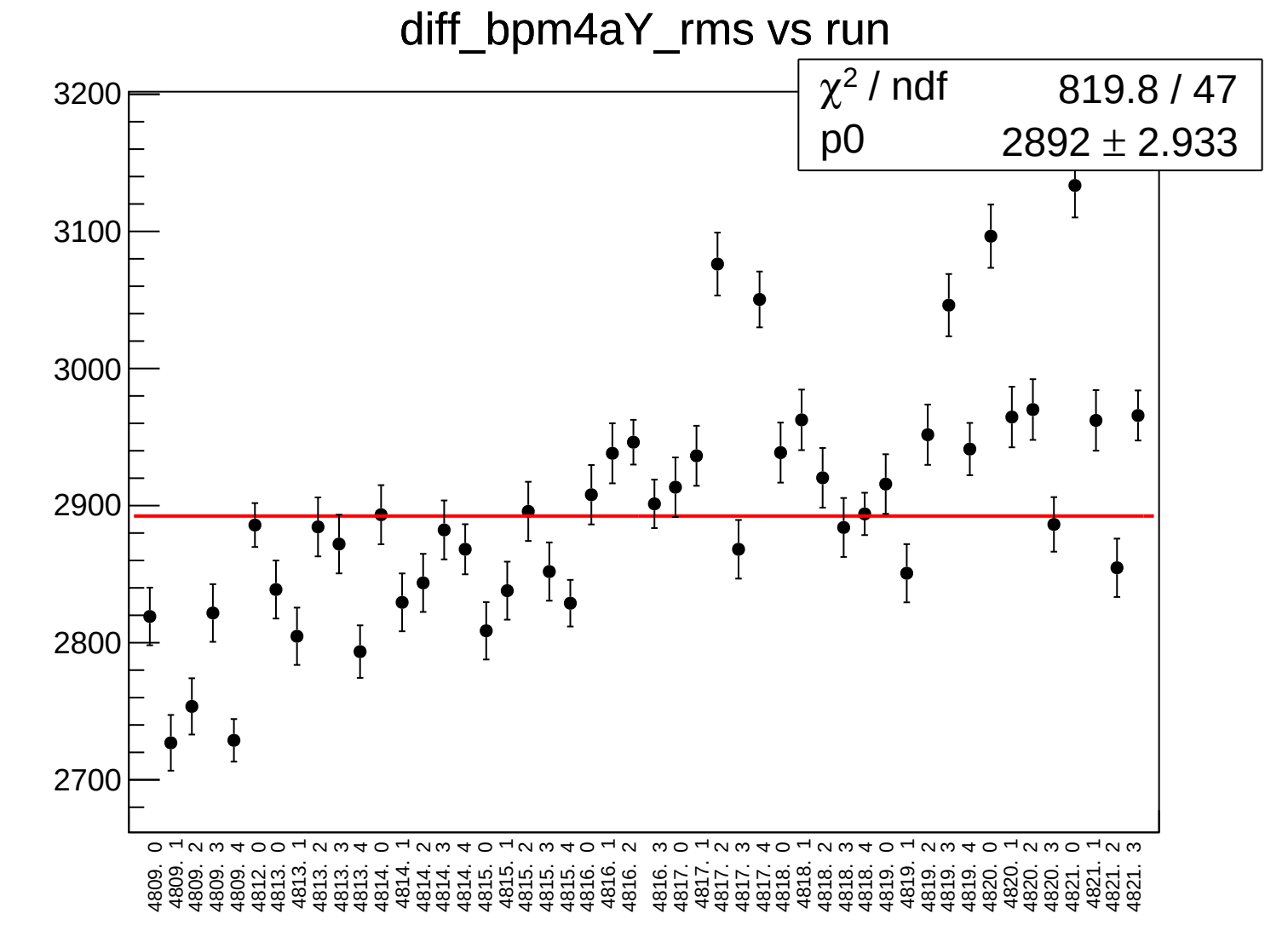

diff_bpm4aX_mean vs run
χ² / ndf 56.15 / 47
p0 −4.185 ± 2.065
pull
Entries 48
Mean 25.21
Std Dev 53.35

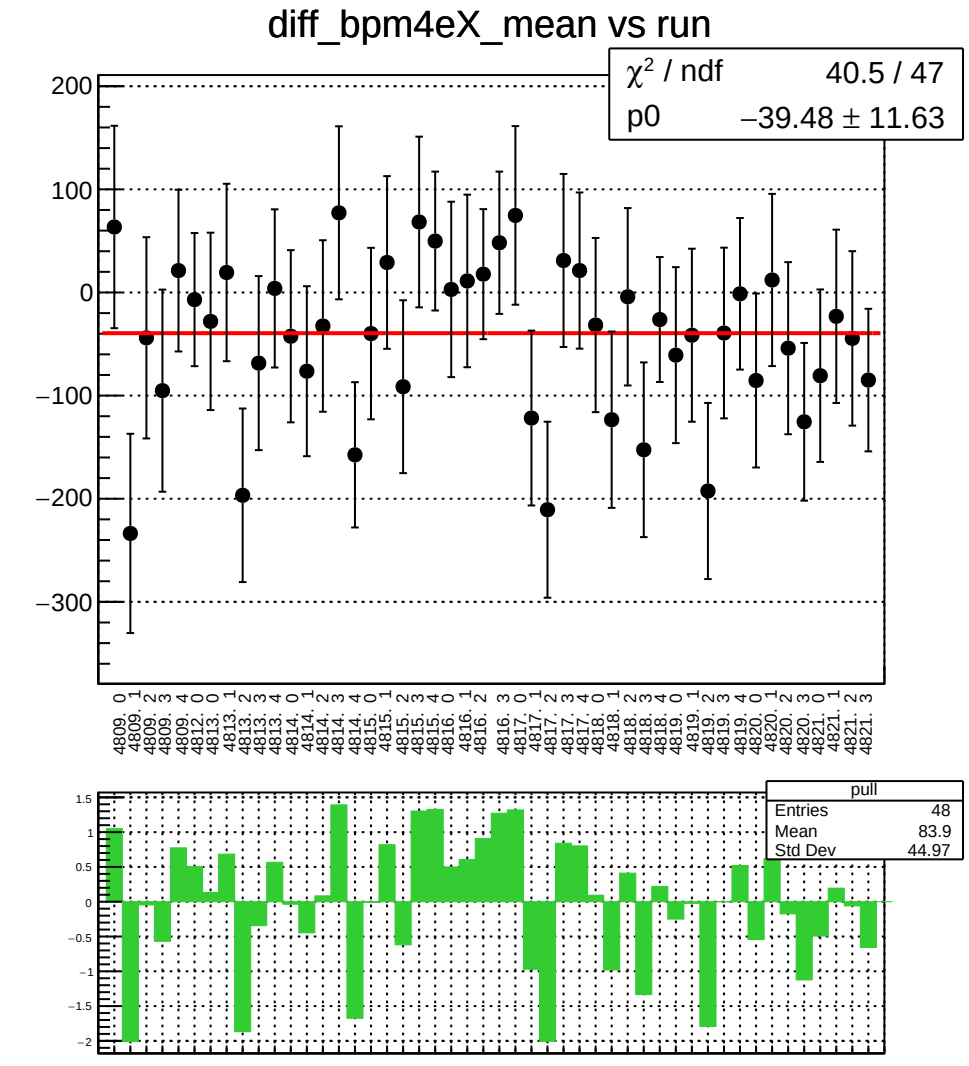

pull1D
Entries 48
Mean −0.01174
Std Dev 1.082

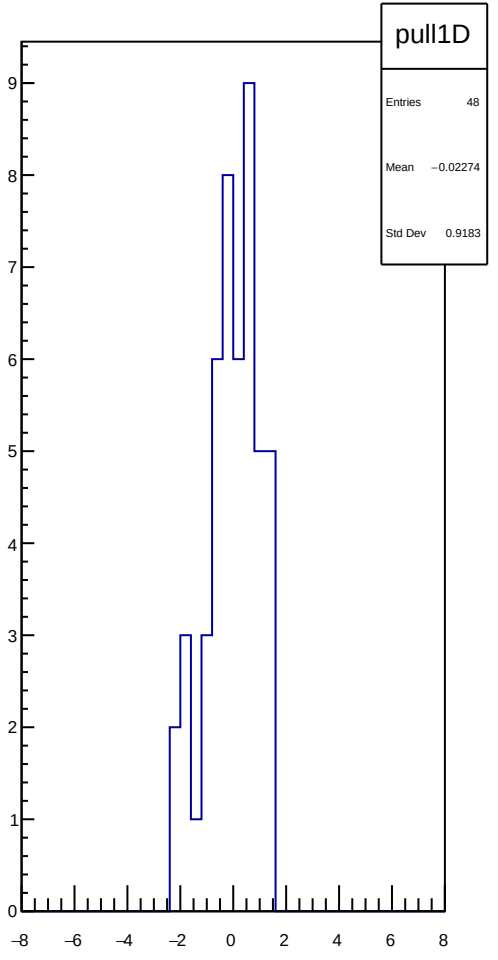

diff_bpm4aX_rms vs run
χ² / ndf 632.7 / 47
p0 1440 ± 1.46
1550
1500
1450
1400
1350
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

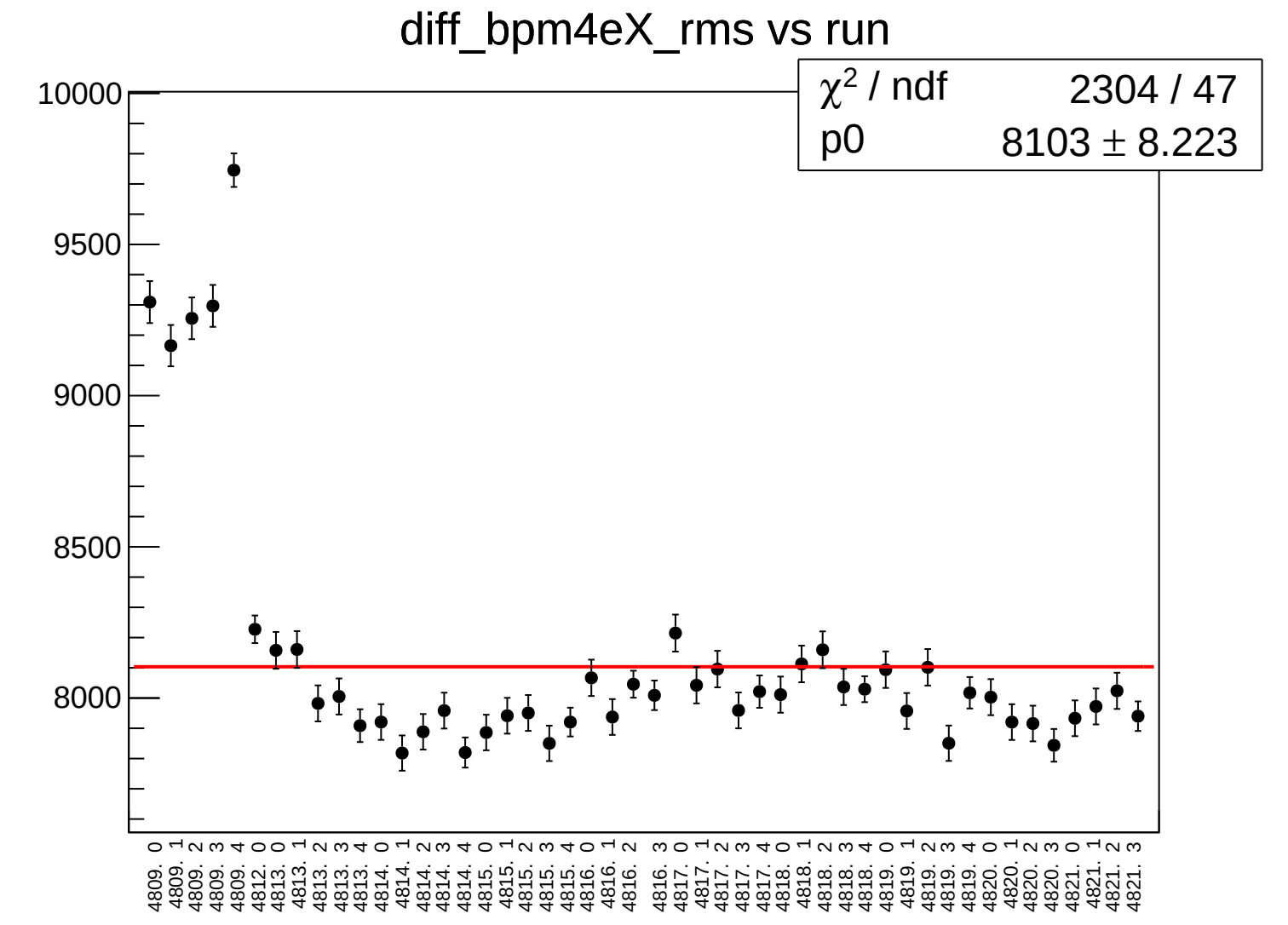

diff_bpm4aY_mean vs run
χ² / ndf 46.52 / 47
p0 11.22 ± 4.148
100
50
0
−50
−100
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 51.9
Std Dev 45.04
2
1
0
−1
−2

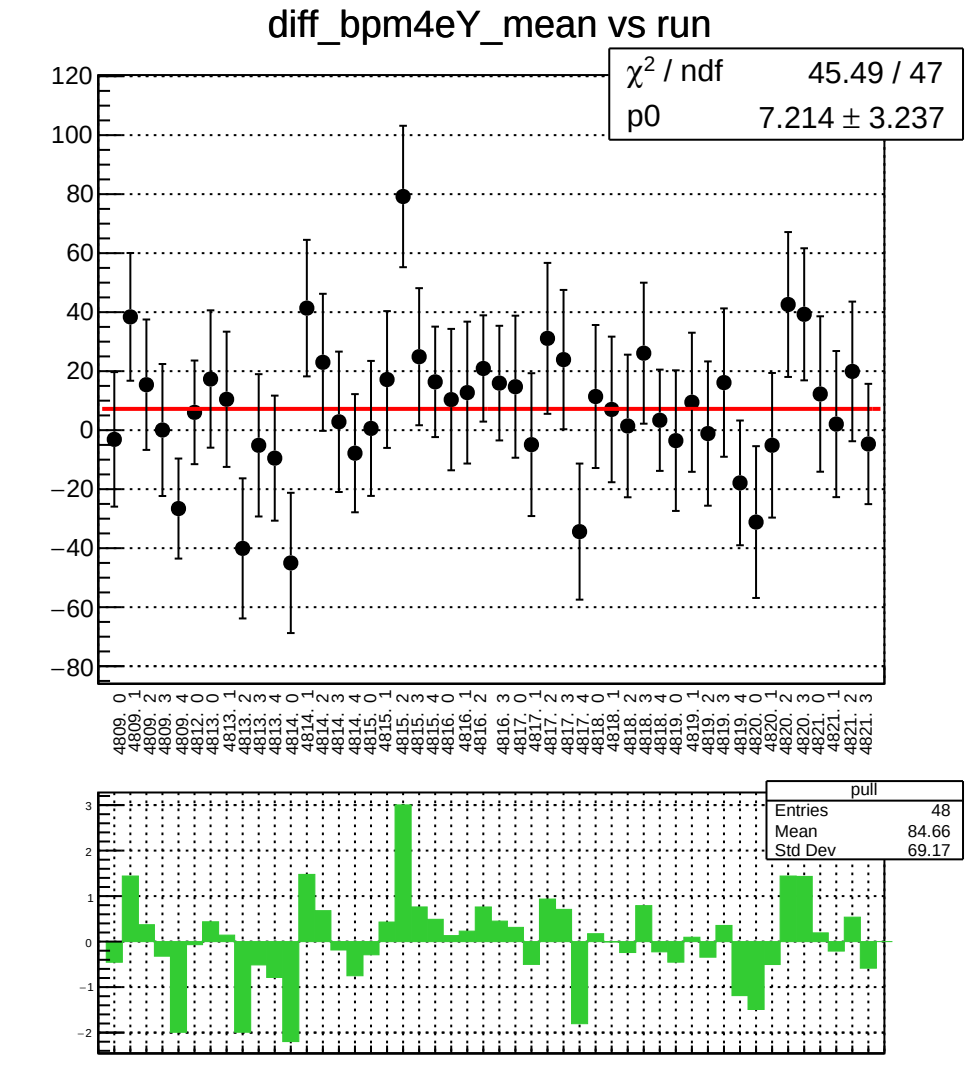

pull1D
Entries 48
Mean 0.004221
Std Dev 0.9845
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

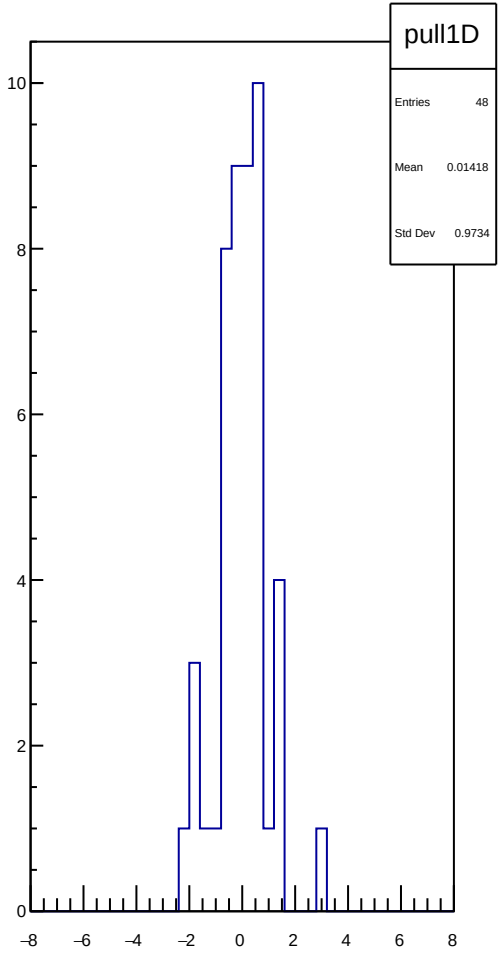

diff_bpm4aY_rms vs run
χ² / ndf 819.8 / 47
p0 2892 ± 2.933
3200
3100
3000
2900
2800
2700
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

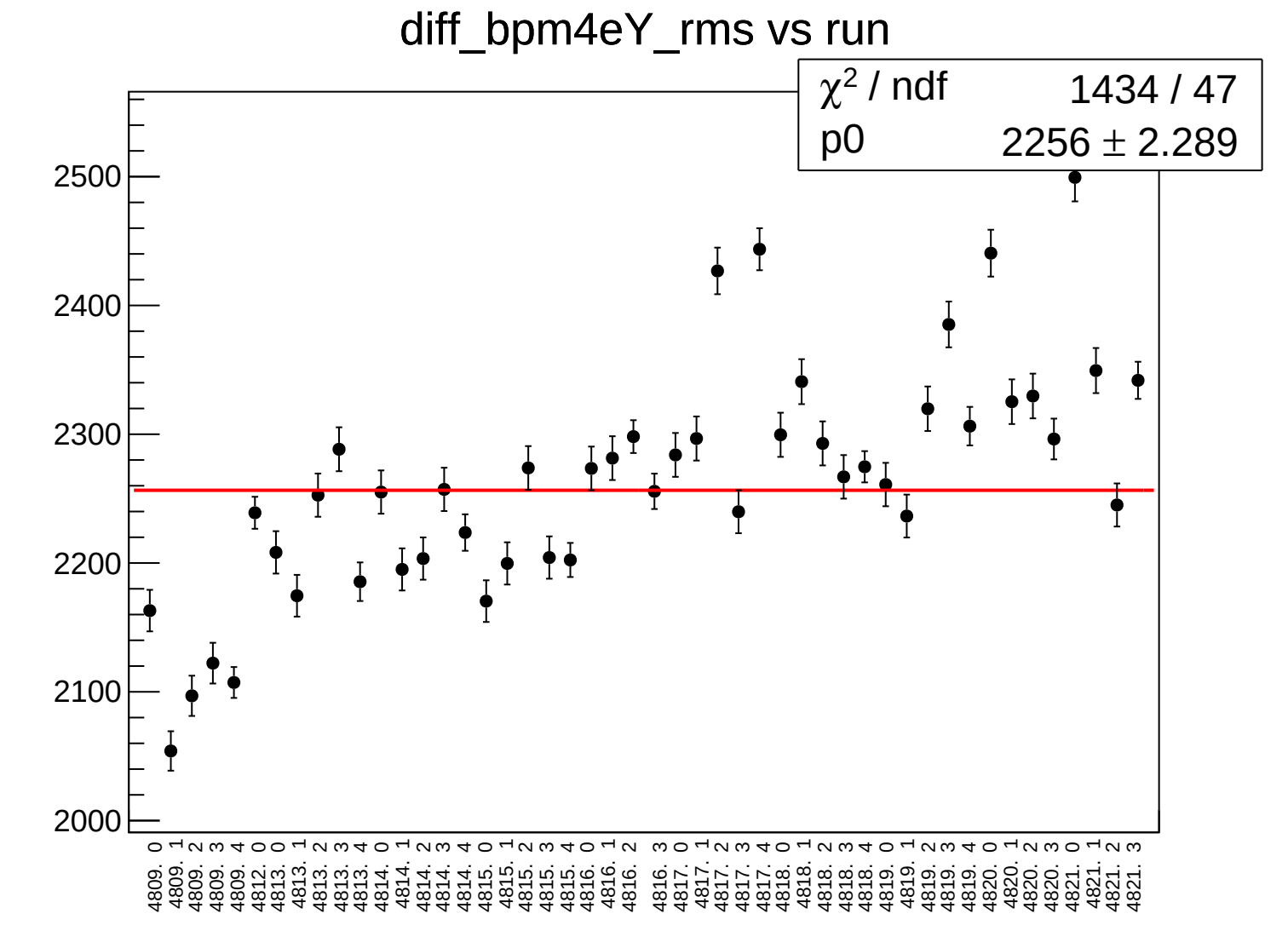

diff_bpm4eX_mean vs run
χ² / ndf 40.5 / 47
p0 −39.48 ± 11.63
200
100
0
−100
−200
−300
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 83.9
Std Dev 44.97
1.5
1
0.5
0
−0.5
−1
−1.5
−2

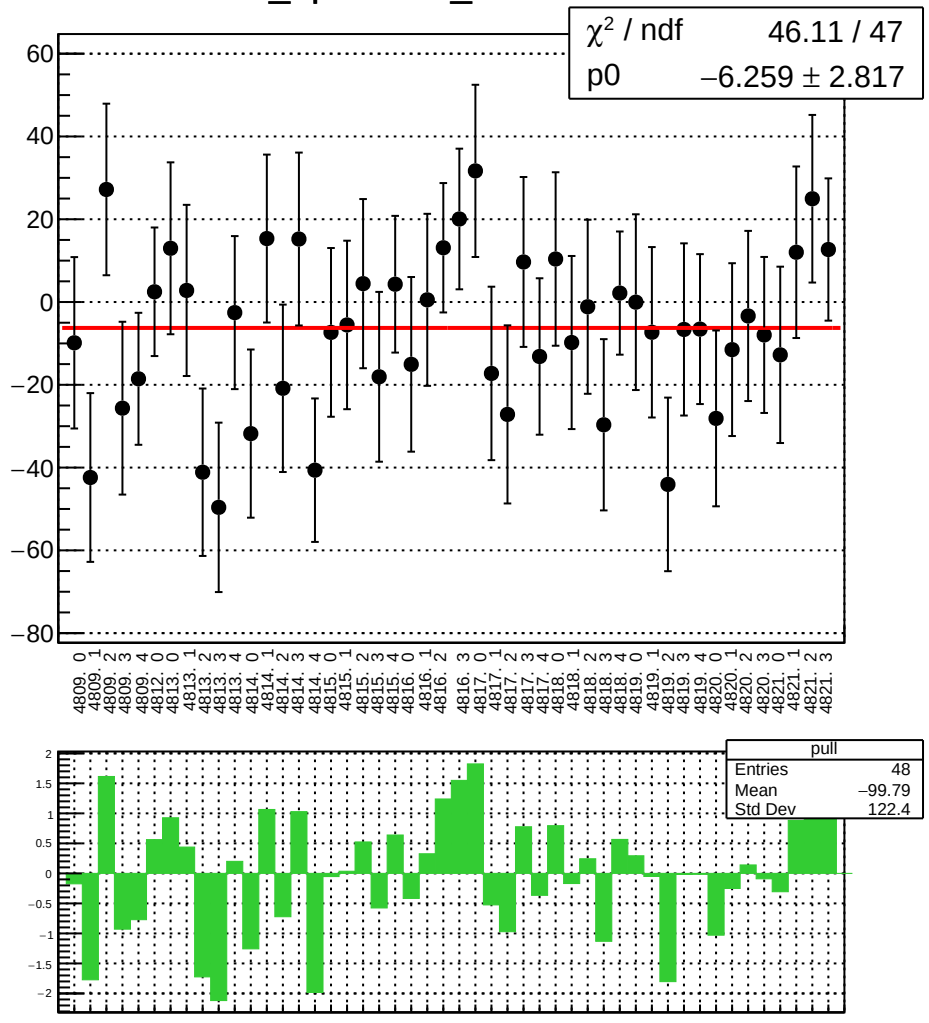

pull1D
Entries 48
Mean −0.02274
Std Dev 0.9183
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

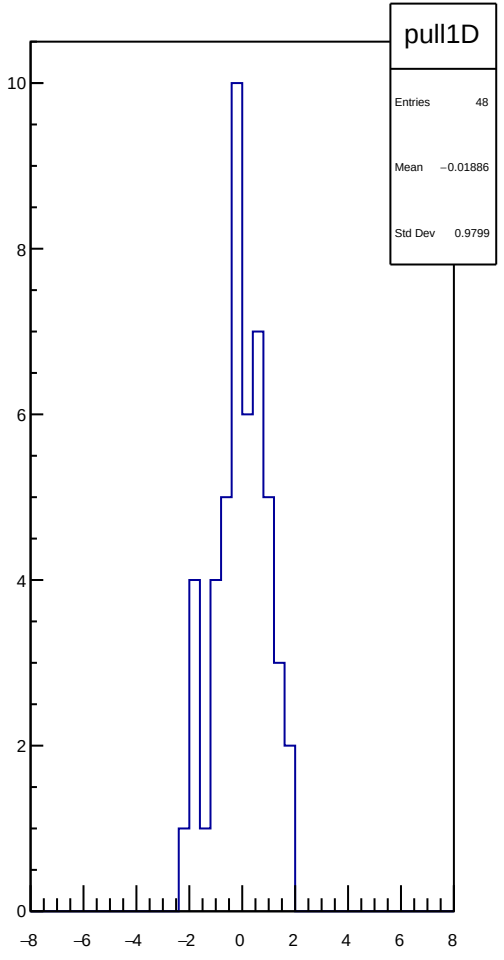

diff_bpm4eX_rms vs run
χ² / ndf 2304 / 47
p0 8103 ± 8.223
10000
9500
9000
8500
8000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

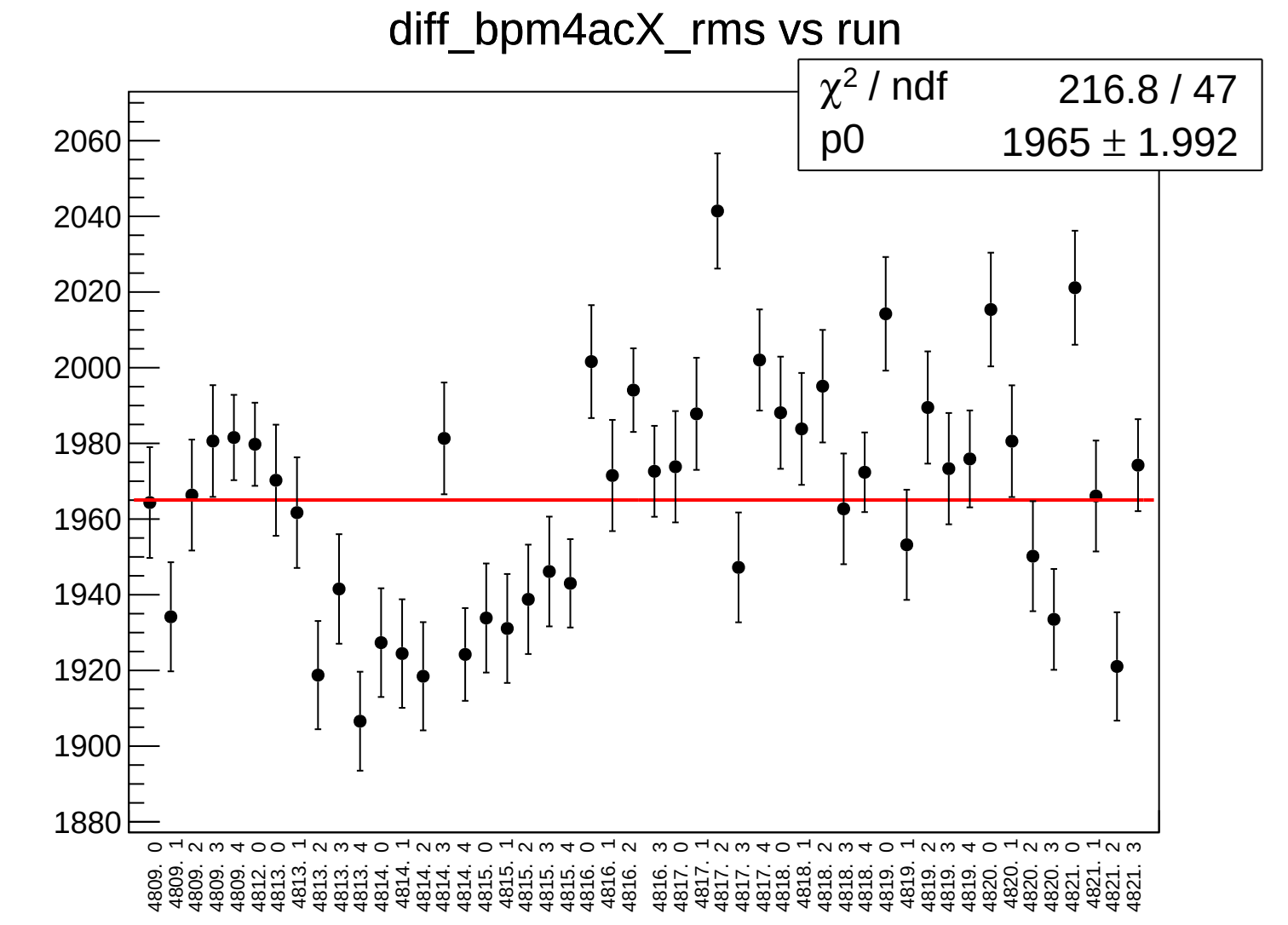

diff_bpm4eY_mean vs run
χ² / ndf 45.49 / 47
p0 7.214 ± 3.237
pull
Entries 48
Mean 84.66
Std Dev 69.17

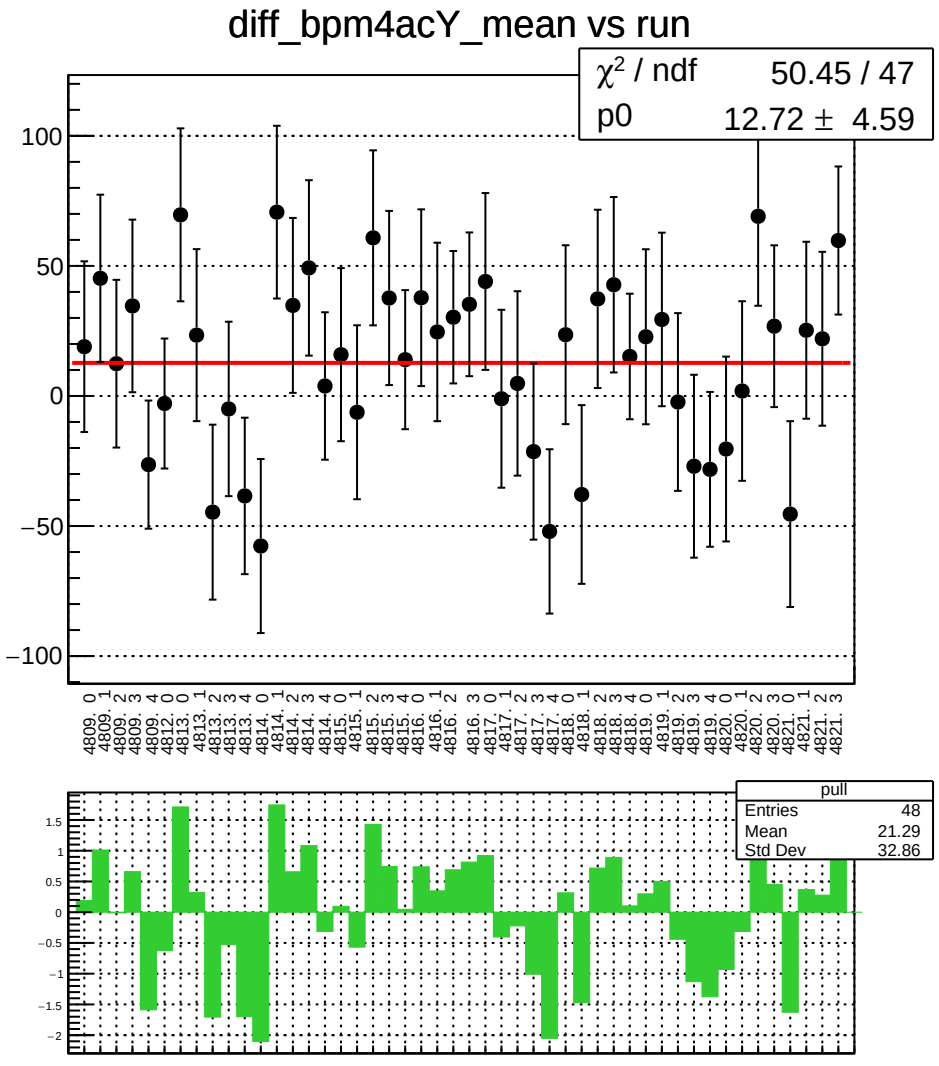

pull1D
Entries 48
Mean 0.01418
Std Dev 0.9734

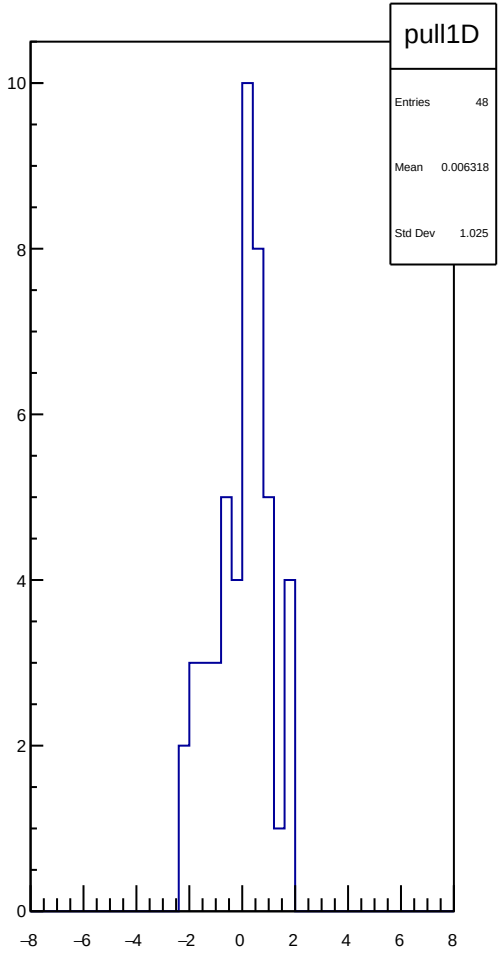

diff_bpm4eY_rms vs run
χ² / ndf 1434 / 47
p0 2256 ± 2.289
2500
2400
2300
2200
2100
2000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

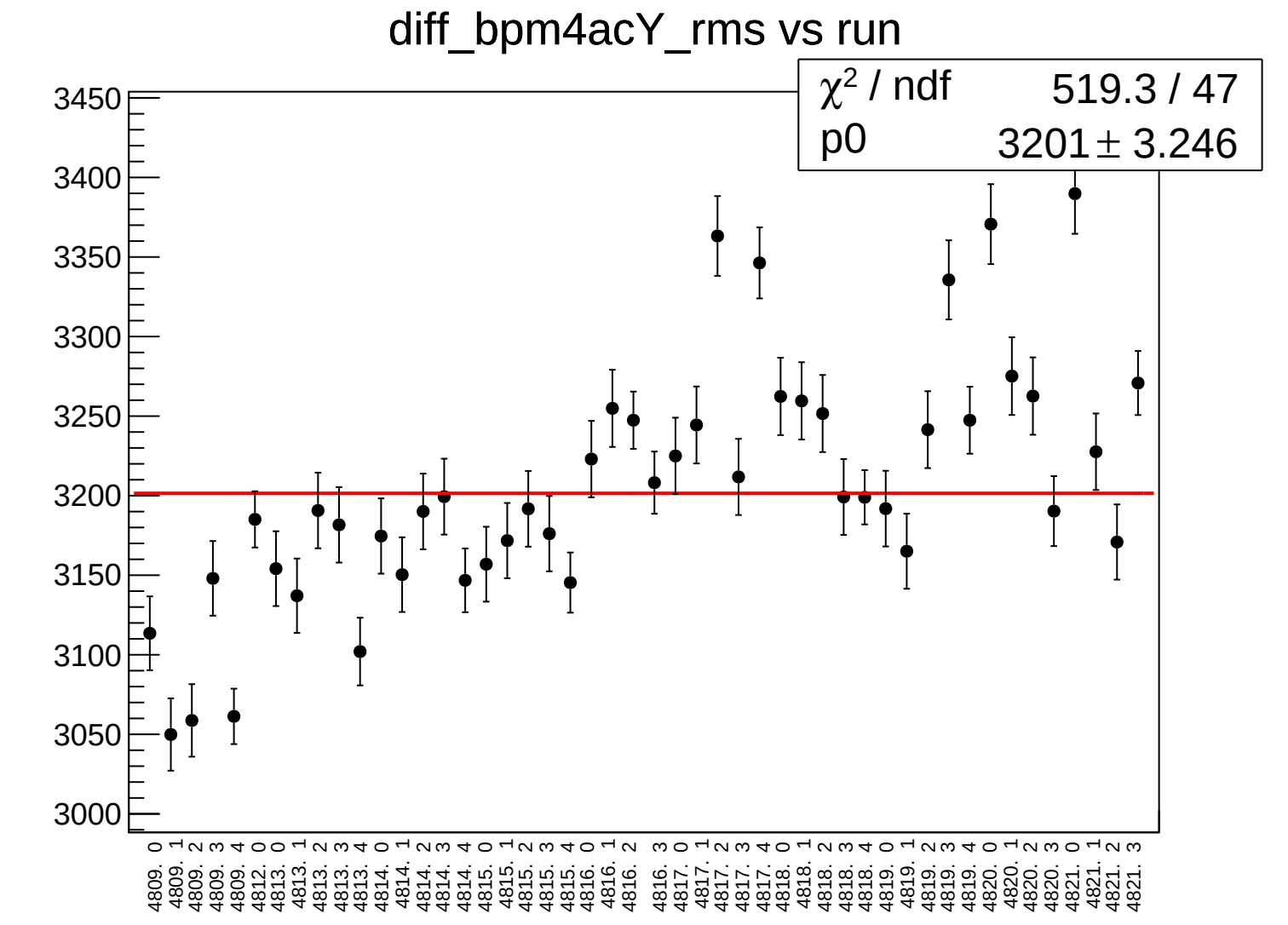

diff_bpm4acX_mean vs run
χ² / ndf 46.11 / 47
p0 −6.259 ± 2.817
pull
Entries 48
Mean −99.79
Std Dev 122.4

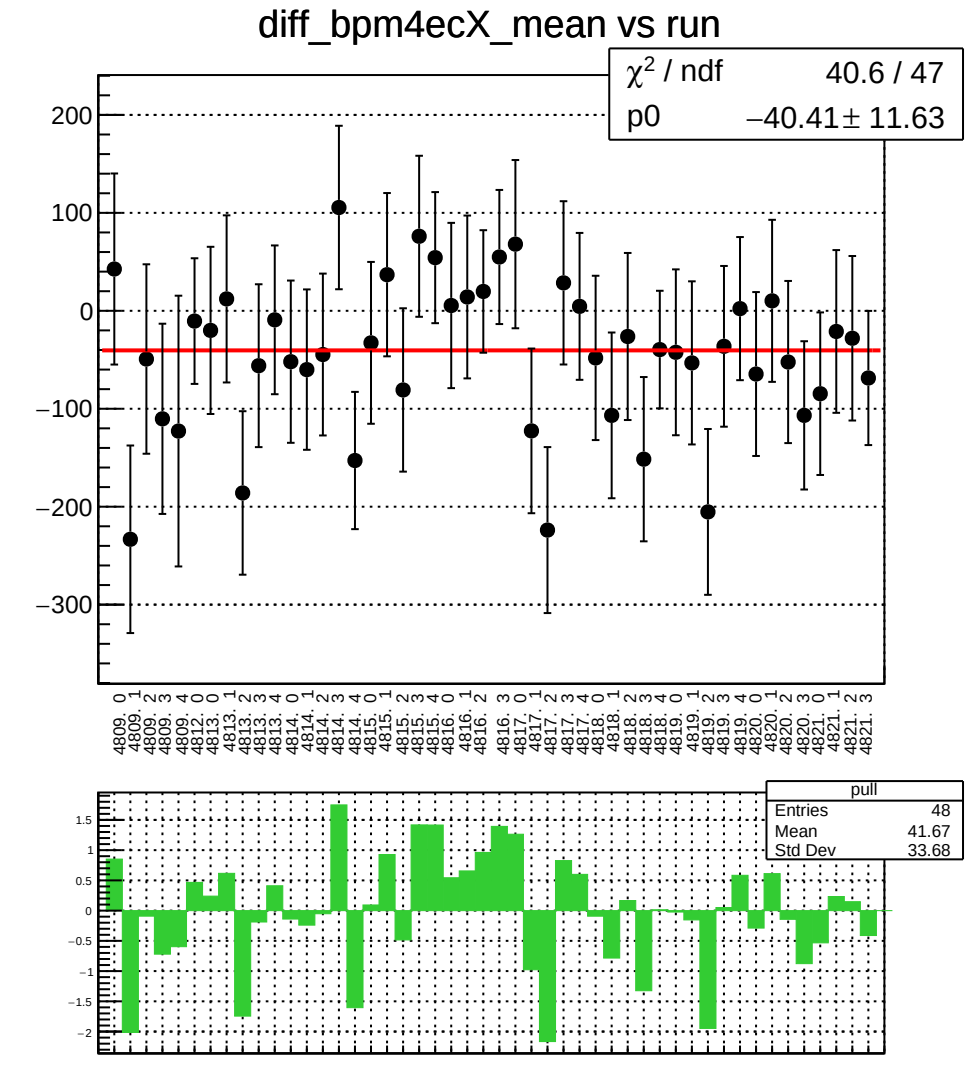

pull1D
Entries 48
Mean −0.01886
Std Dev 0.9799

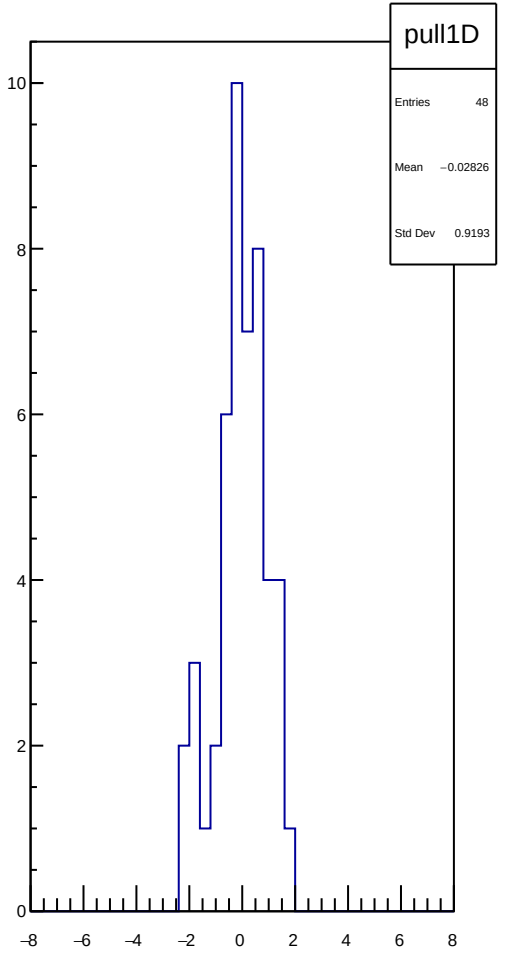

diff_bpm4acX_rms vs run
χ² / ndf 216.8 / 47
p0 1965 ± 1.992
2060
2040
2020
2000
1980
1960
1940
1920
1900
1880
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

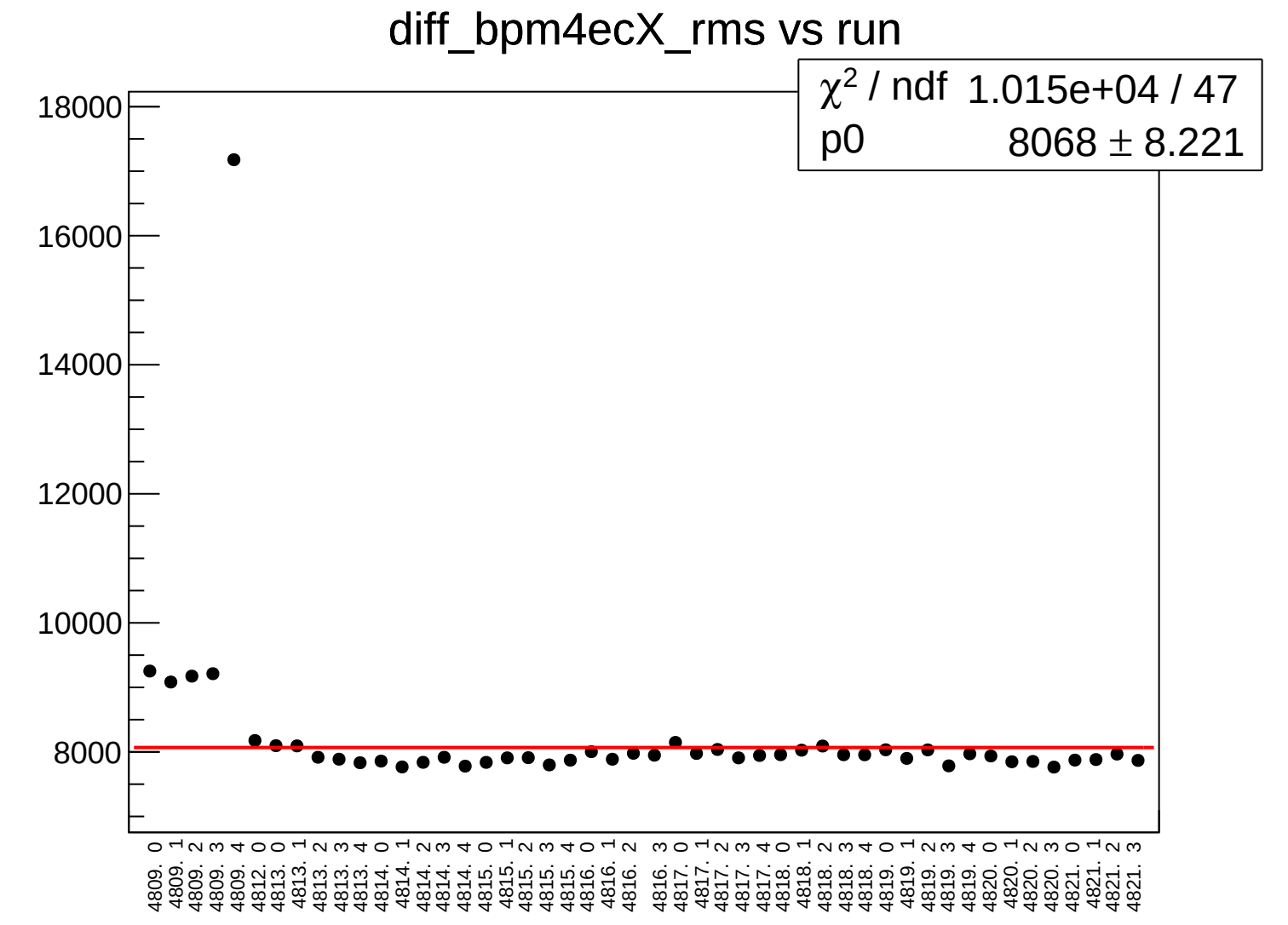

diff_bpm4acY_mean vs run
χ² / ndf 50.45 / 47
p0 12.72 ± 4.59
100
50
0
−50
−100
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 21.29
Std Dev 32.86
1.5
1
0.5
0
−0.5
−1
−1.5
−2

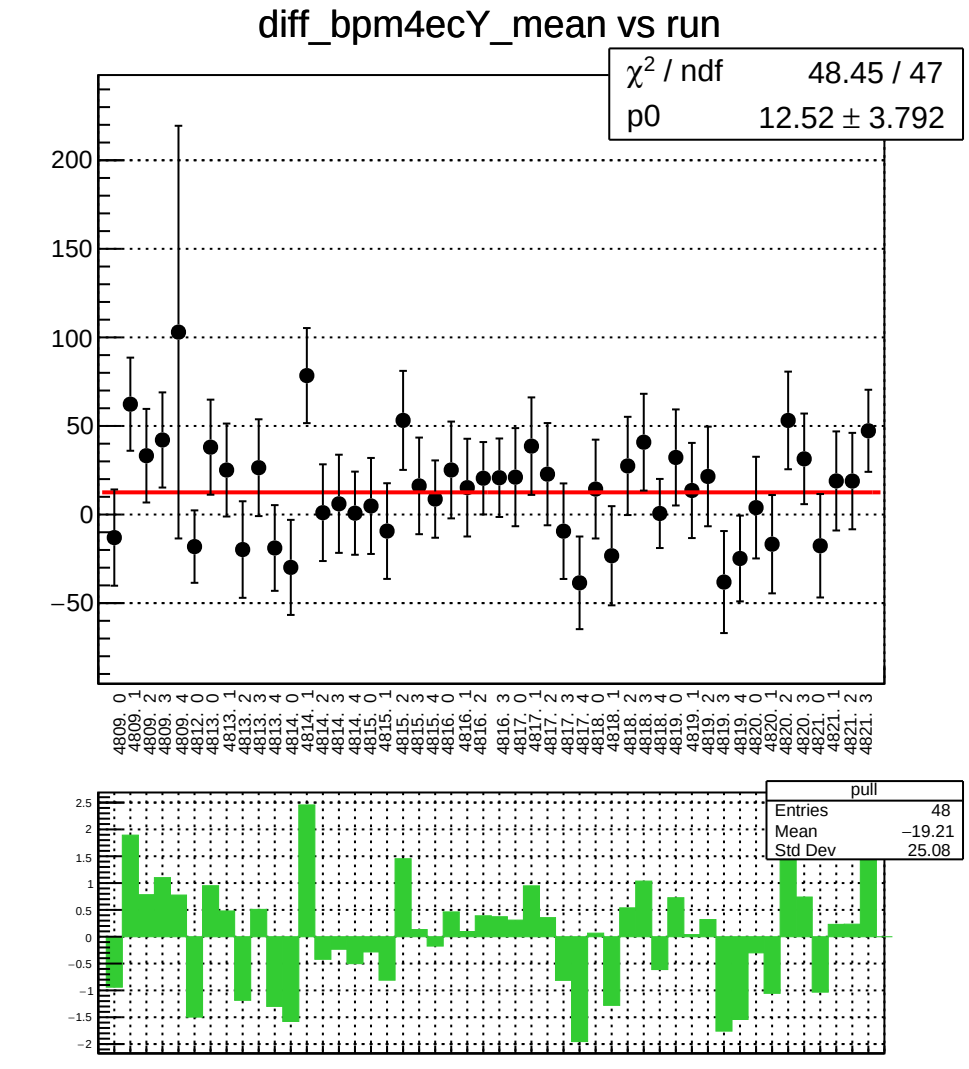

pull1D
Entries 48
Mean 0.006318
Std Dev 1.025
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

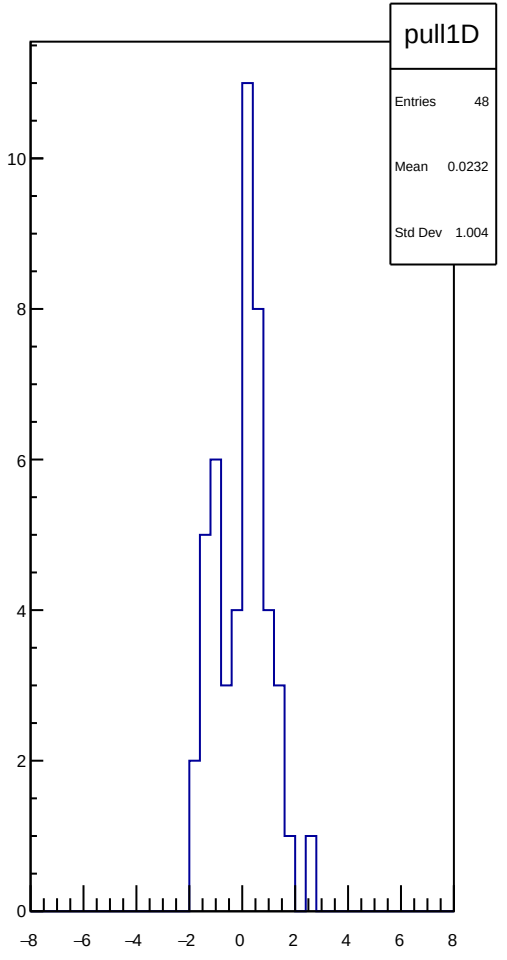

diff_bpm4acY_rms vs run
χ² / ndf 519.3 / 47
p0 3201 ± 3.246
3450
3400
3350
3300
3250
3200
3150
3100
3050
3000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

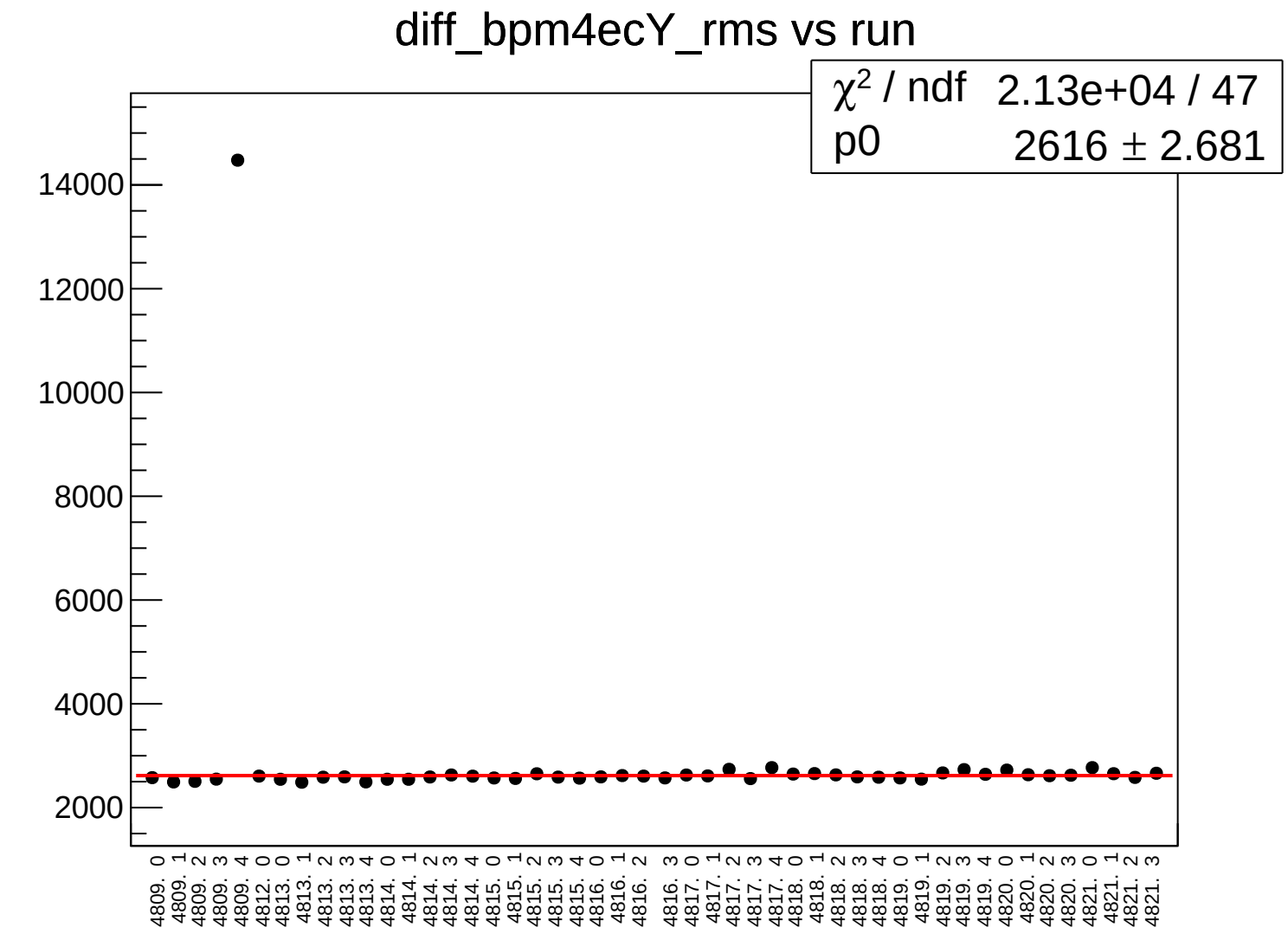

diff_bpm4ecX_mean vs run
χ^2 / ndf 40.6 / 47
p0 −40.41± 11.63
200
100
0
−100
−200
−300
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 41.67
Std Dev 33.68
1.5
1
0.5
0
−0.5
−1
−1.5
−2

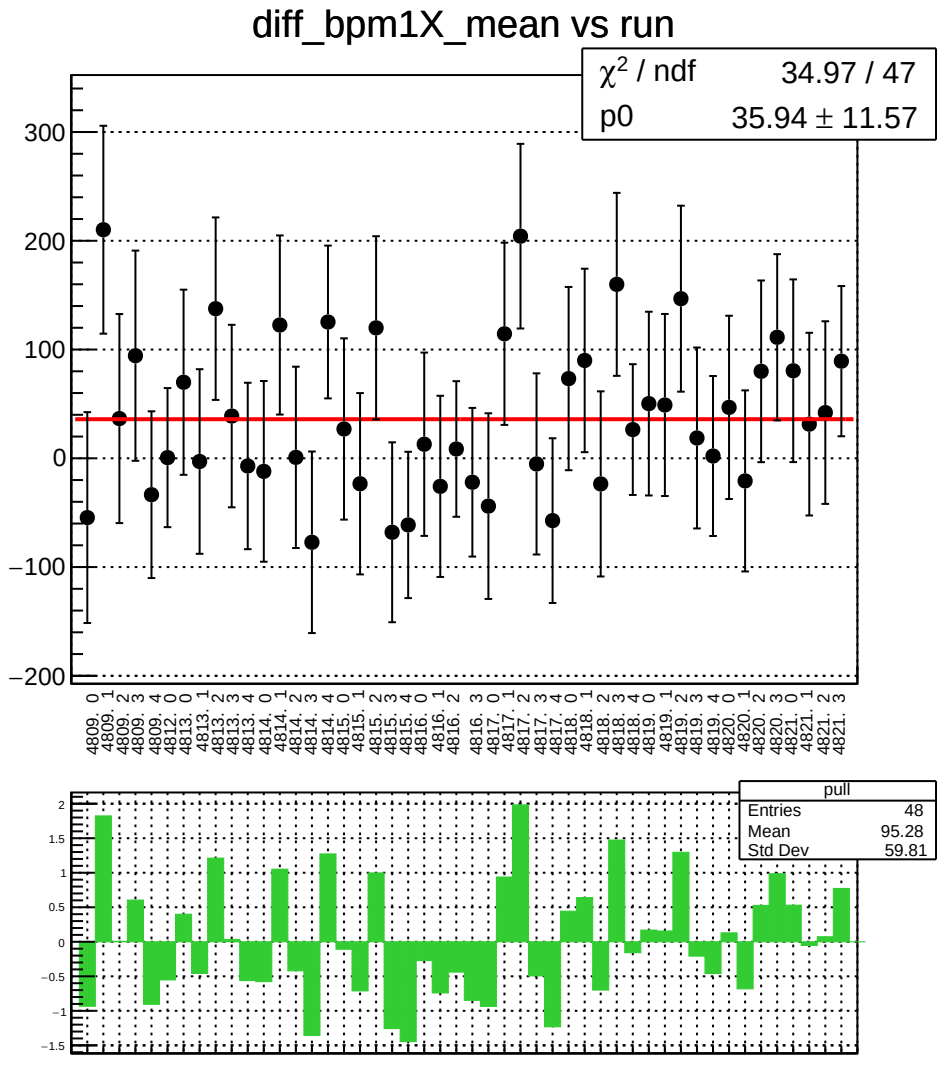

pull1D
Entries 48
Mean −0.02826
Std Dev 0.9193
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

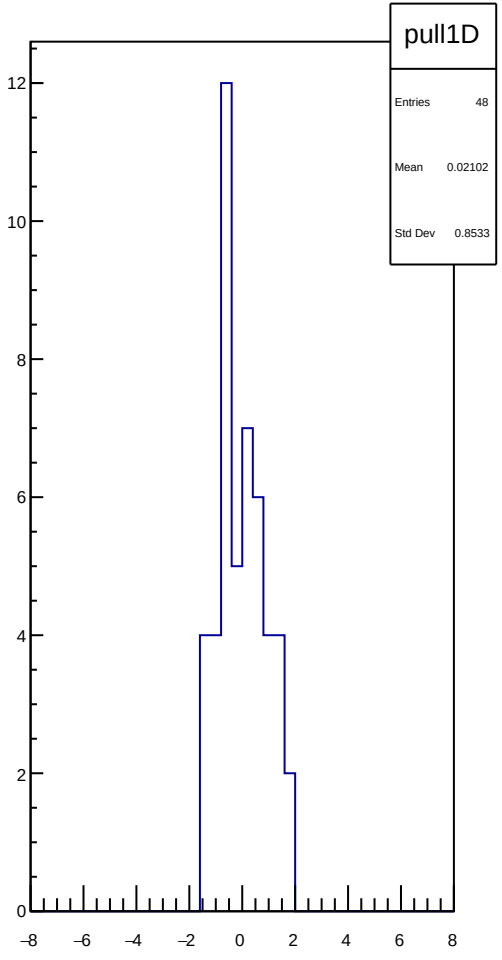

diff_bpm4ecX_rms vs run
χ² / ndf 1.015e+04 / 47
p0 8068 ± 8.221
18000
16000
14000
12000
10000
8000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

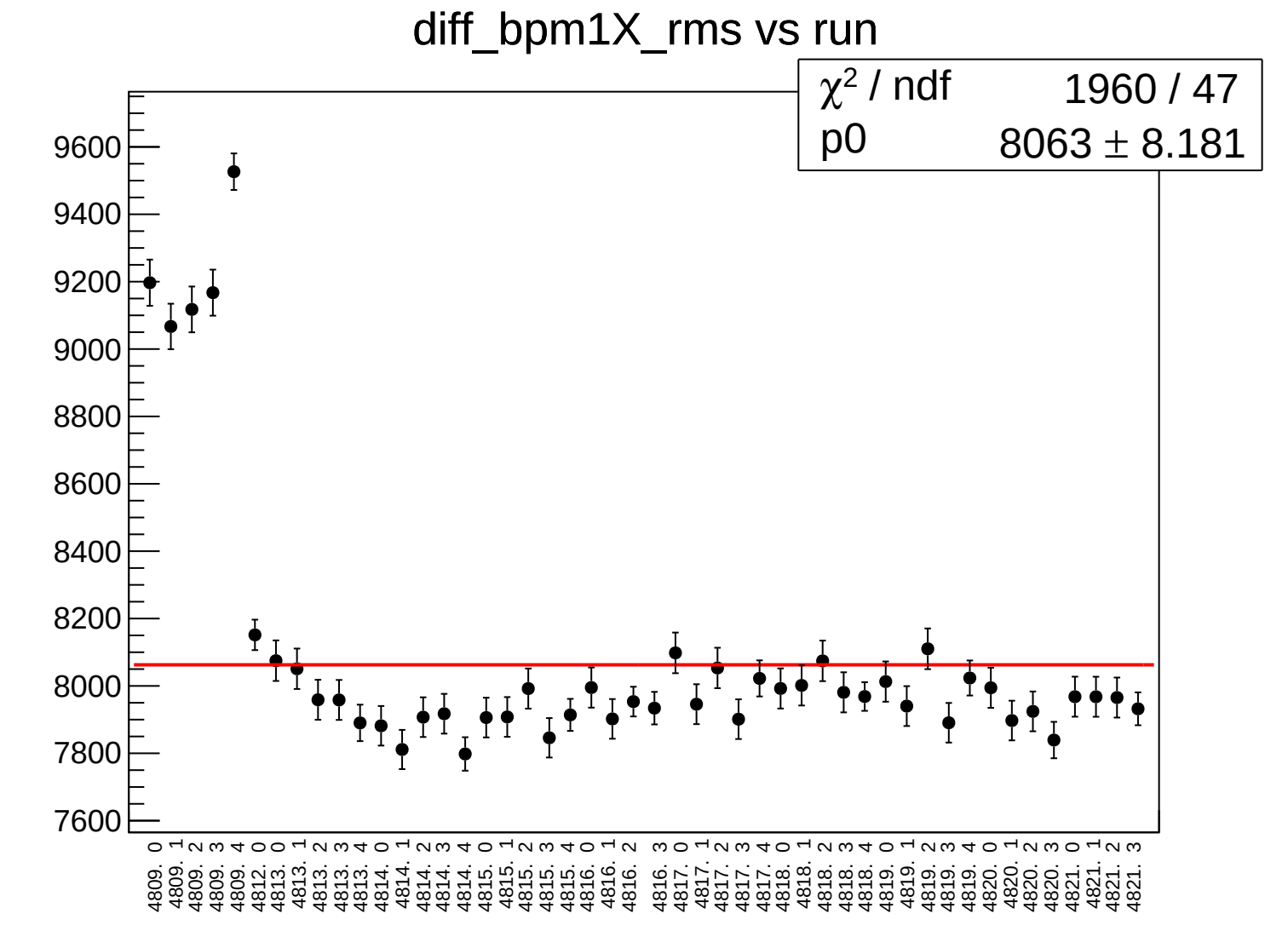

diff_bpm4ecY_mean vs run
χ² / ndf 48.45 / 47
p0 12.52 ± 3.792
200
150
100
50
0
−50
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean −19.21
Std Dev 25.08
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

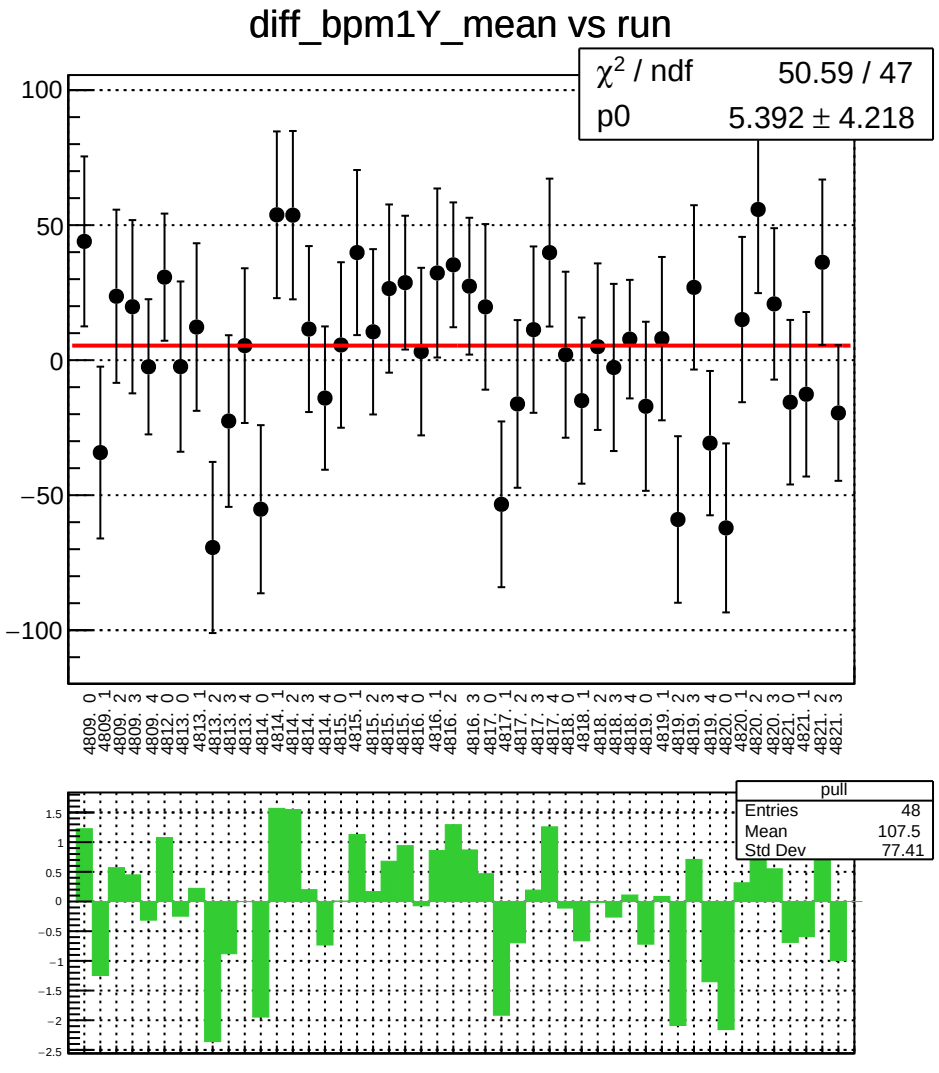

pull1D
Entries 48
Mean 0.0232
Std Dev 1.004
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

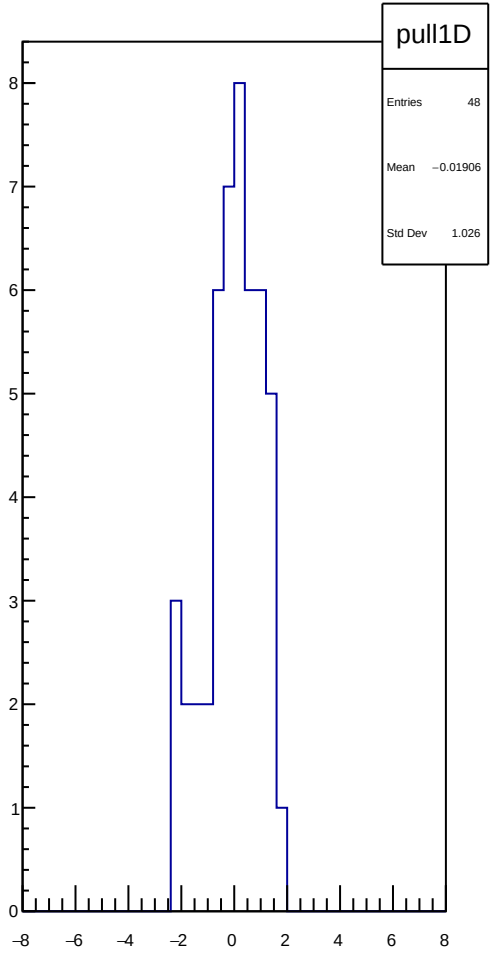

diff_bpm4ecY_rms vs run
χ² / ndf 2.13e+04 / 47
p0 2616 ± 2.681
14000
12000
10000
8000
6000
4000
2000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

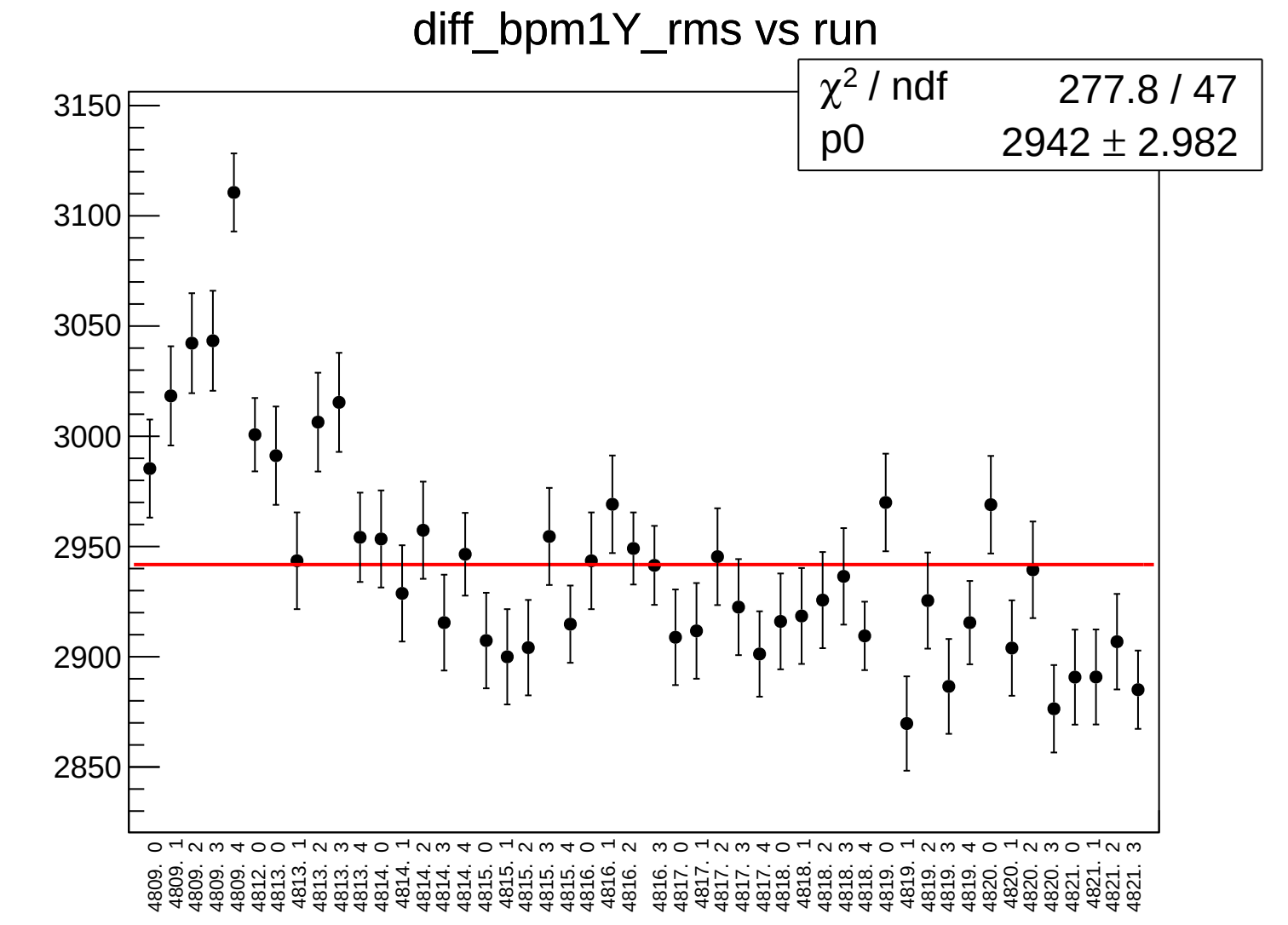

diff_bpm1X_mean vs run
χ^2 / ndf 34.97 / 47
p0 35.94 ± 11.57
300
200
100
0
−100
−200
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 95.28
Std Dev 59.81
2
1.5
1
0.5
0
−0.5
−1
−1.5

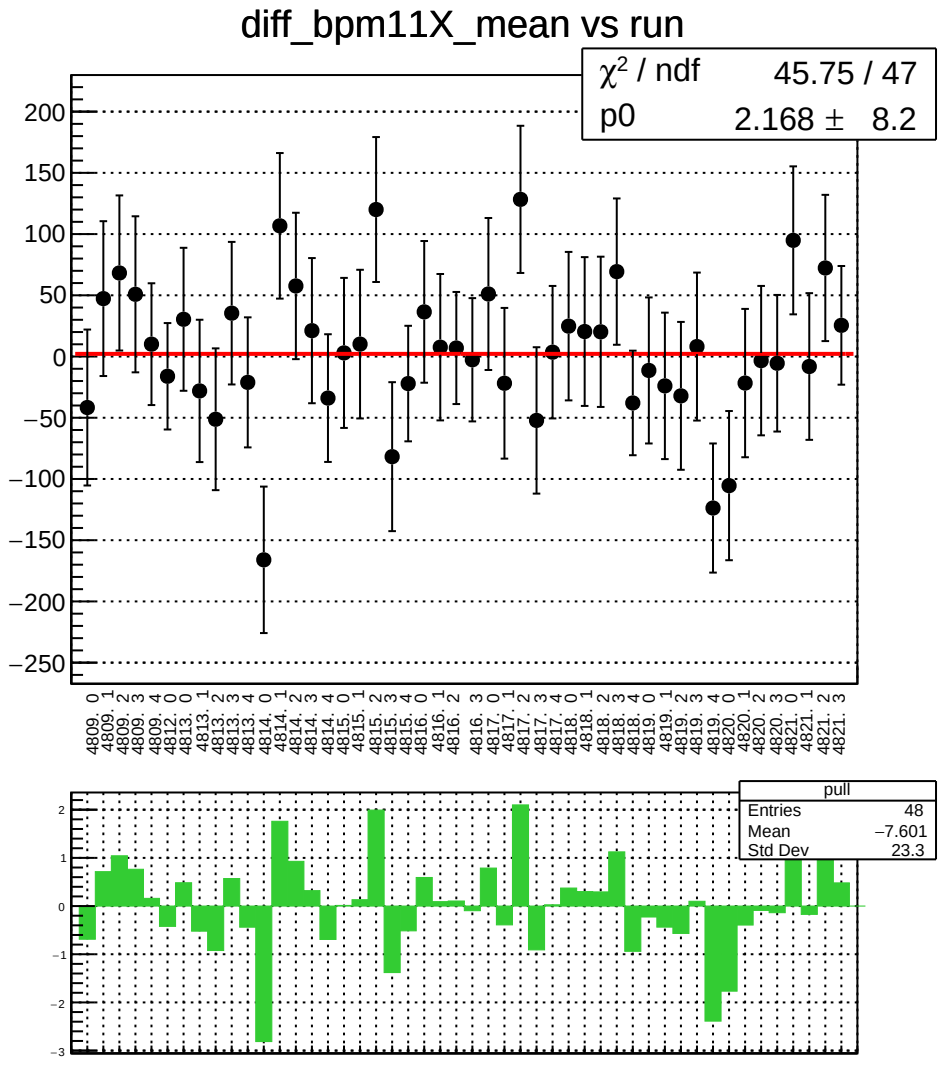

pull1D
Entries 48
Mean 0.02102
Std Dev 0.8533
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

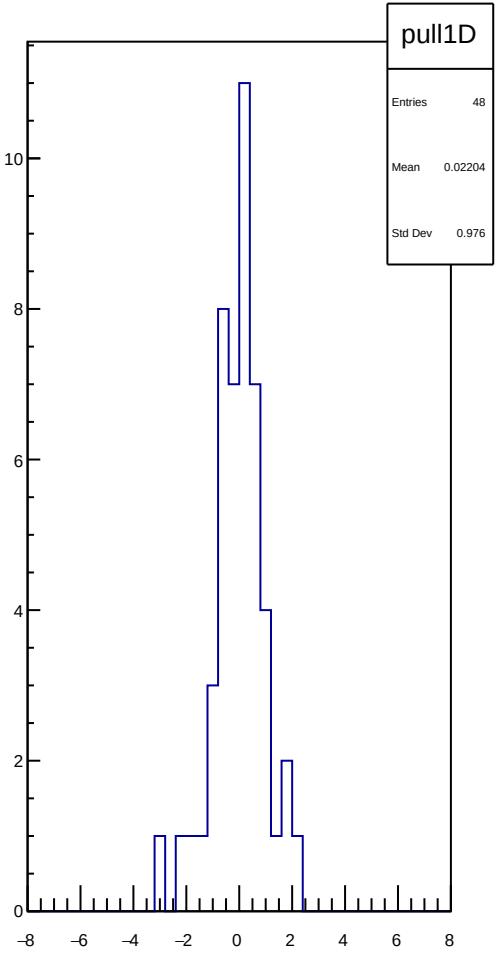

diff_bpm1X_rms vs run
χ² / ndf 1960 / 47
p0 8063 ± 8.181
9600
9400
9200
9000
8800
8600
8400
8200
8000
7800
7600
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

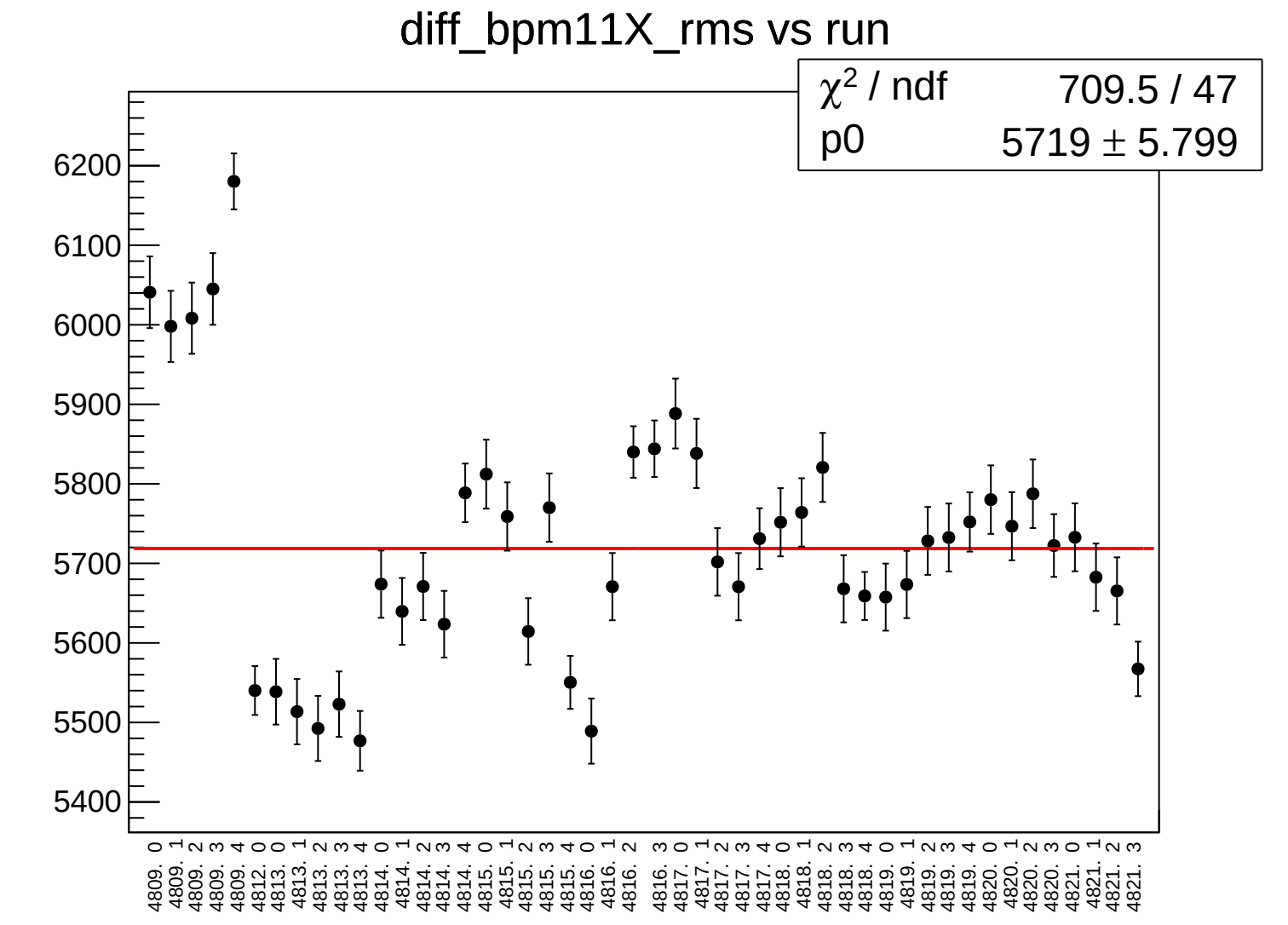

diff_bpm1Y_mean vs run
χ² / ndf 50.59 / 47
p0 5.392 ± 4.218
100
50
0
−50
−100
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 107.5
Std Dev 77.41
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

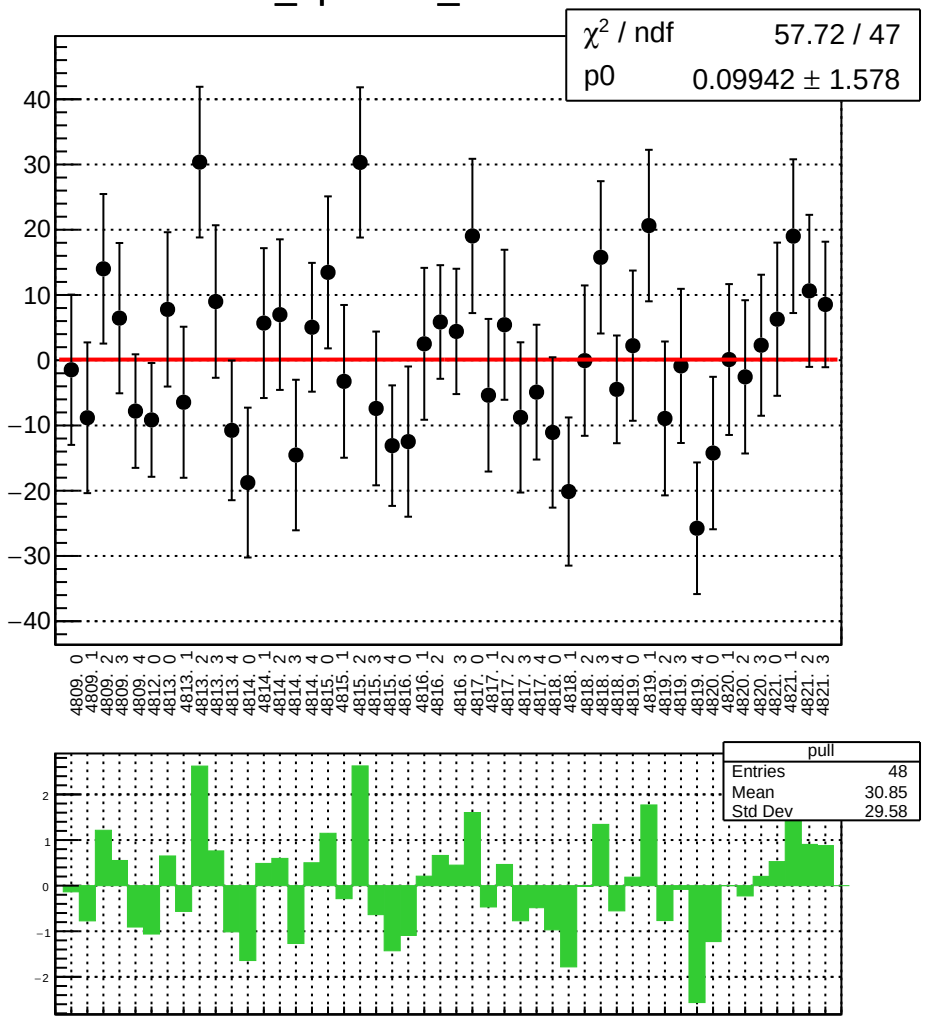

pull1D
Entries 48
Mean −0.01906
Std Dev 1.026
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

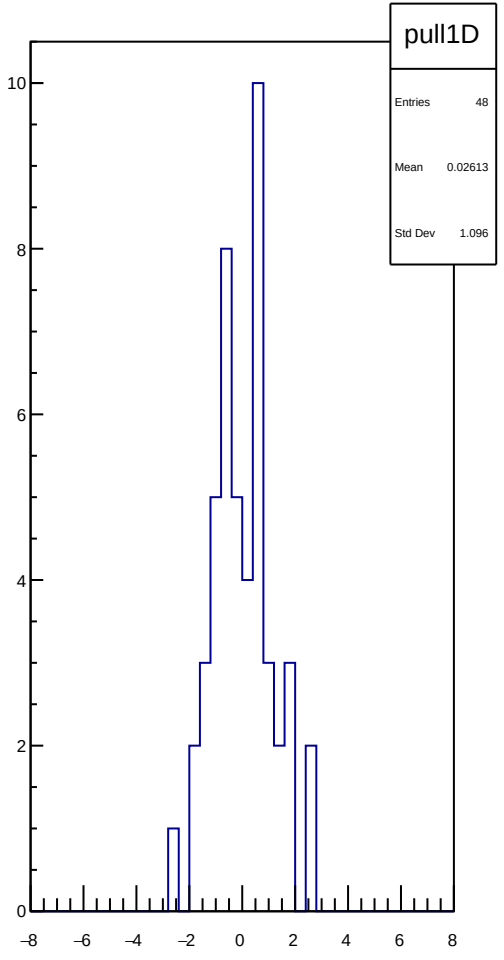

diff_bpm1Y_rms vs run
χ² / ndf 277.8 / 47
p0 2942 ± 2.982
3150
3100
3050
3000
2950
2900
2850
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

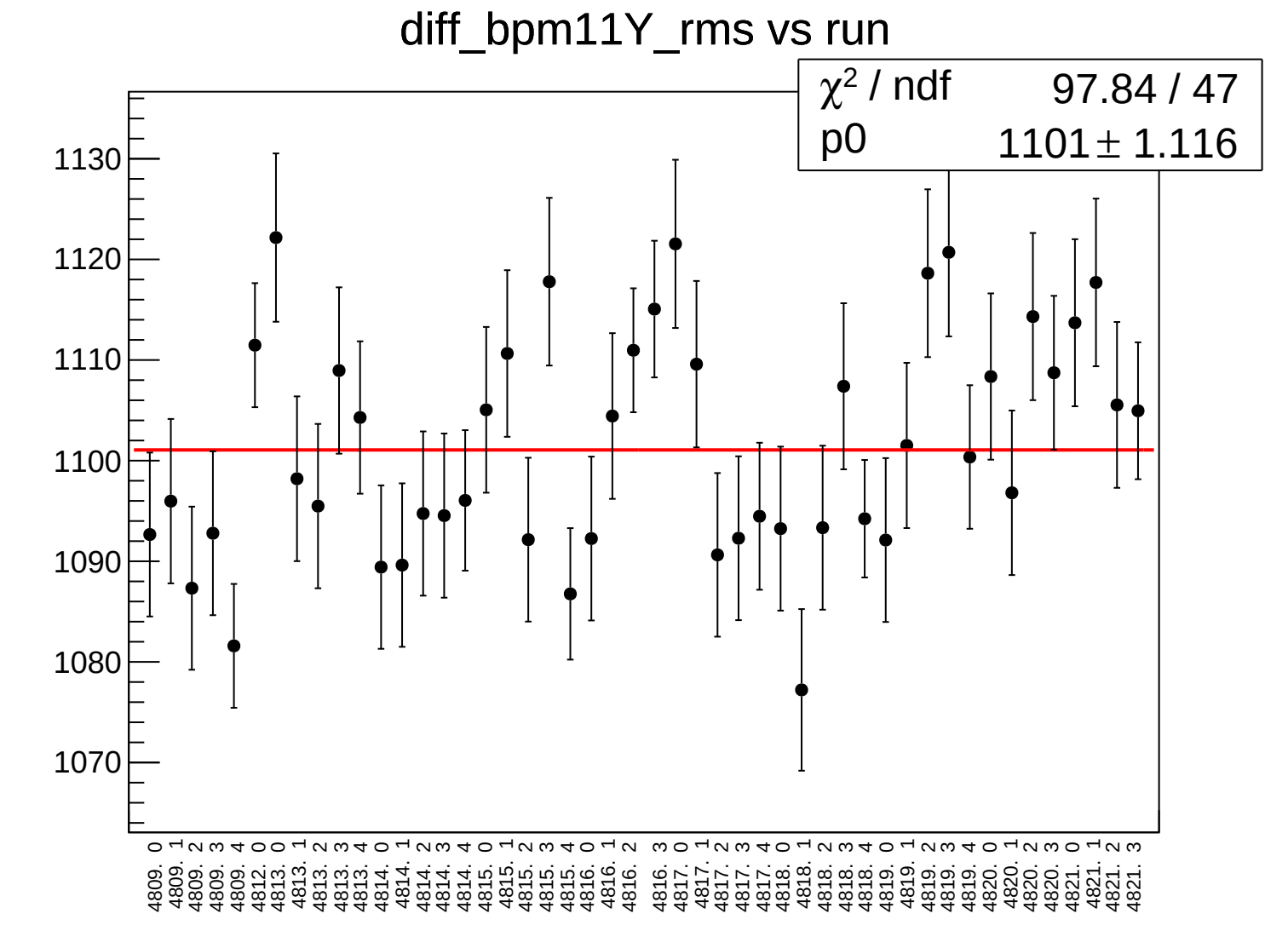

diff_bpm11X_mean vs run
χ² / ndf 45.75 / 47
p0 2.168 ± 8.2
pull
Entries 48
Mean −7.601
Std Dev 23.3

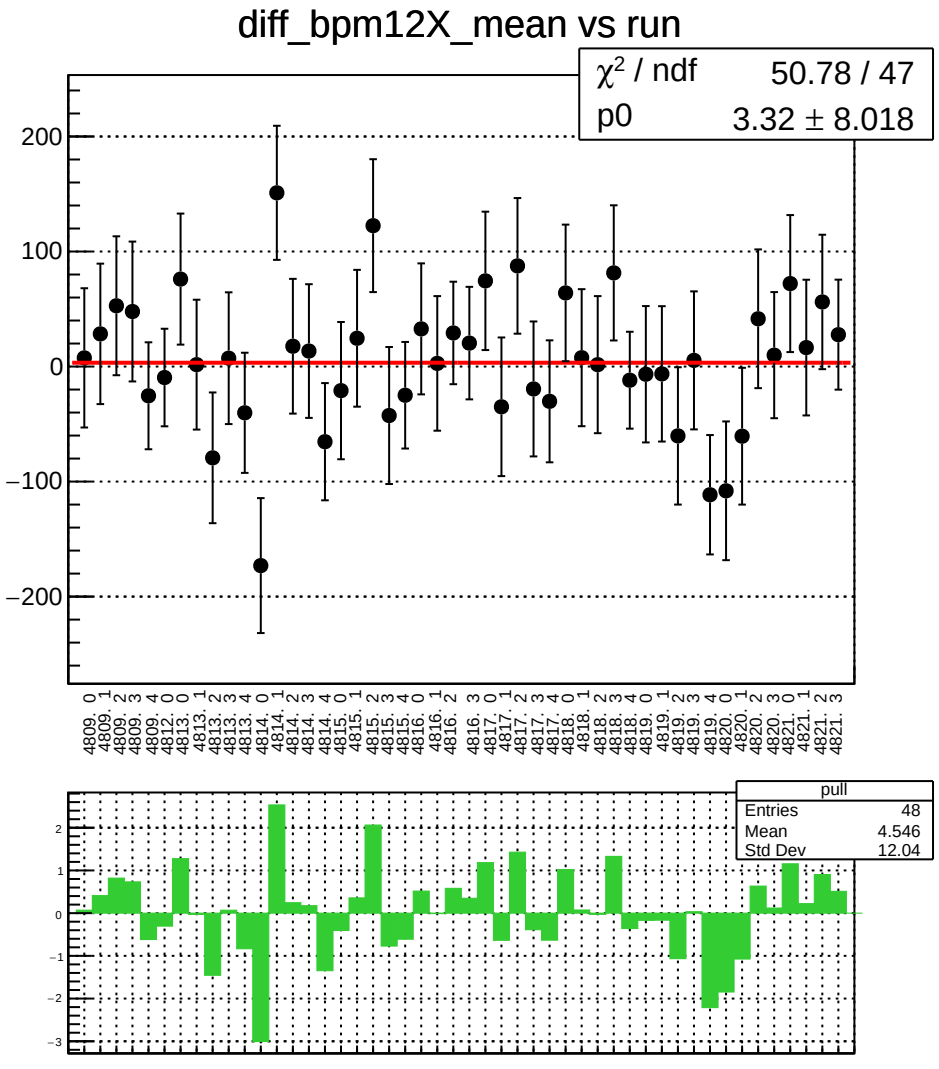

pull1D
Entries 48
Mean 0.02204
Std Dev 0.976

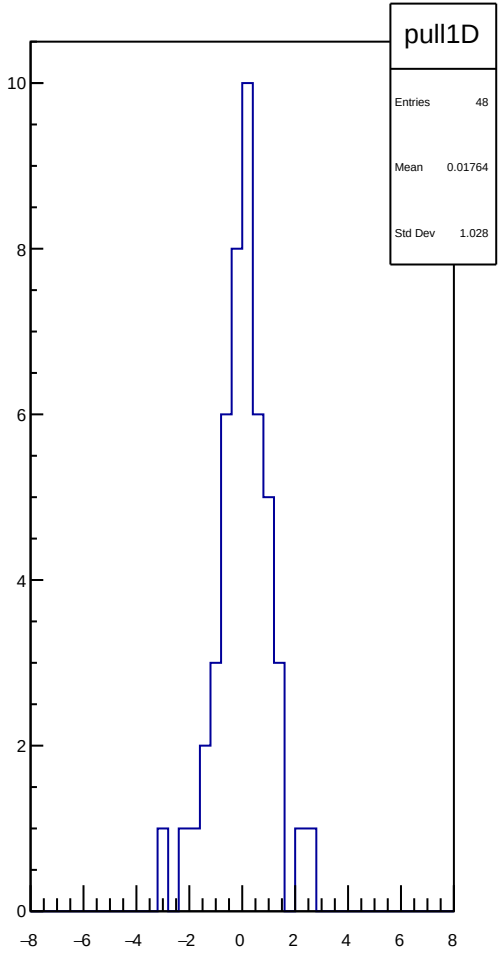

diff_bpm11X_rms vs run
χ² / ndf 709.5 / 47
p0 5719 ± 5.799
6200
6100
6000
5900
5800
5700
5600
5500
5400
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

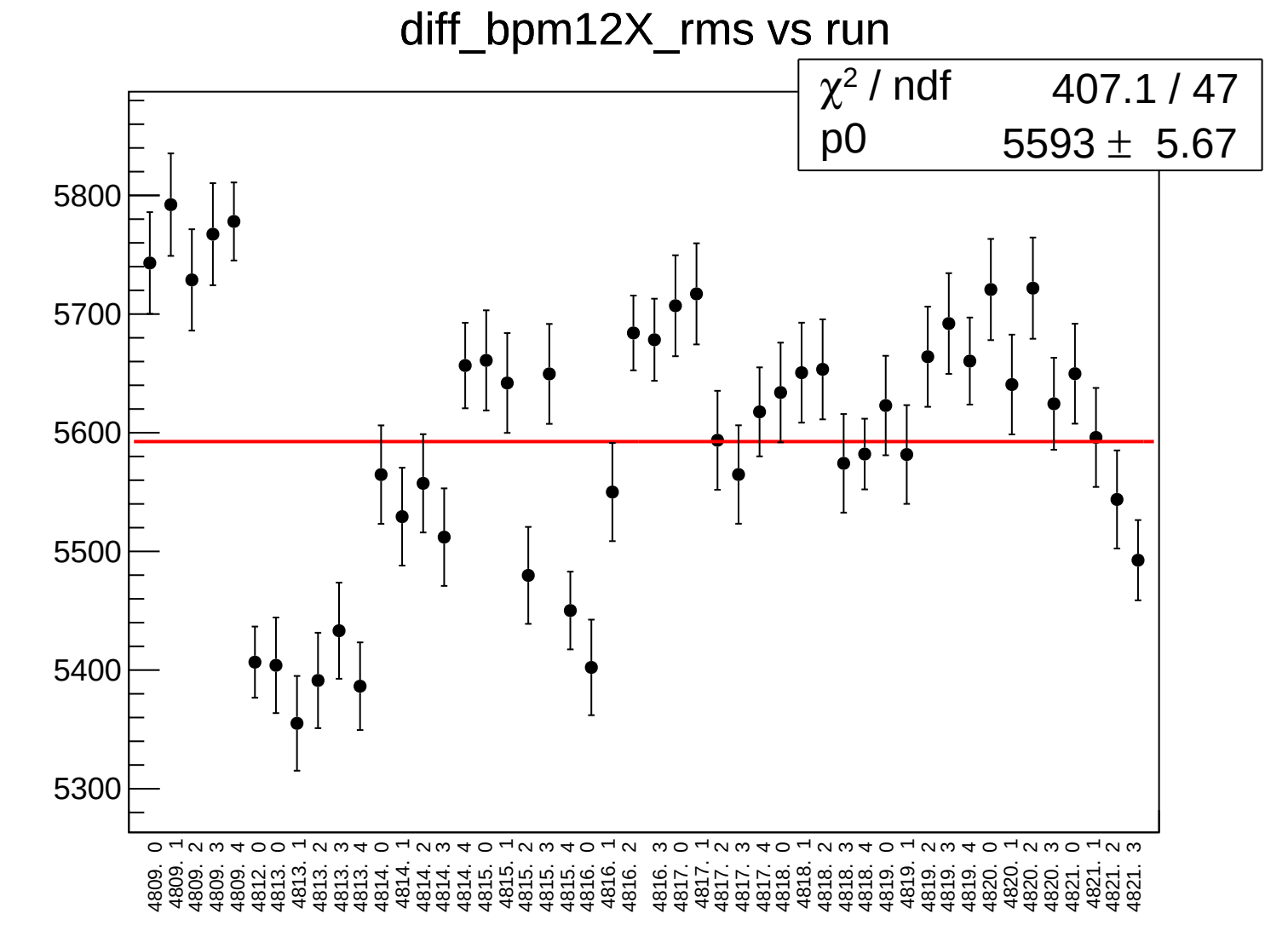

diff_bpm11Y_mean vs run
χ² / ndf 57.72 / 47
p0 0.09942 ± 1.578
pull
Entries 48
Mean 30.85
Std Dev 29.58

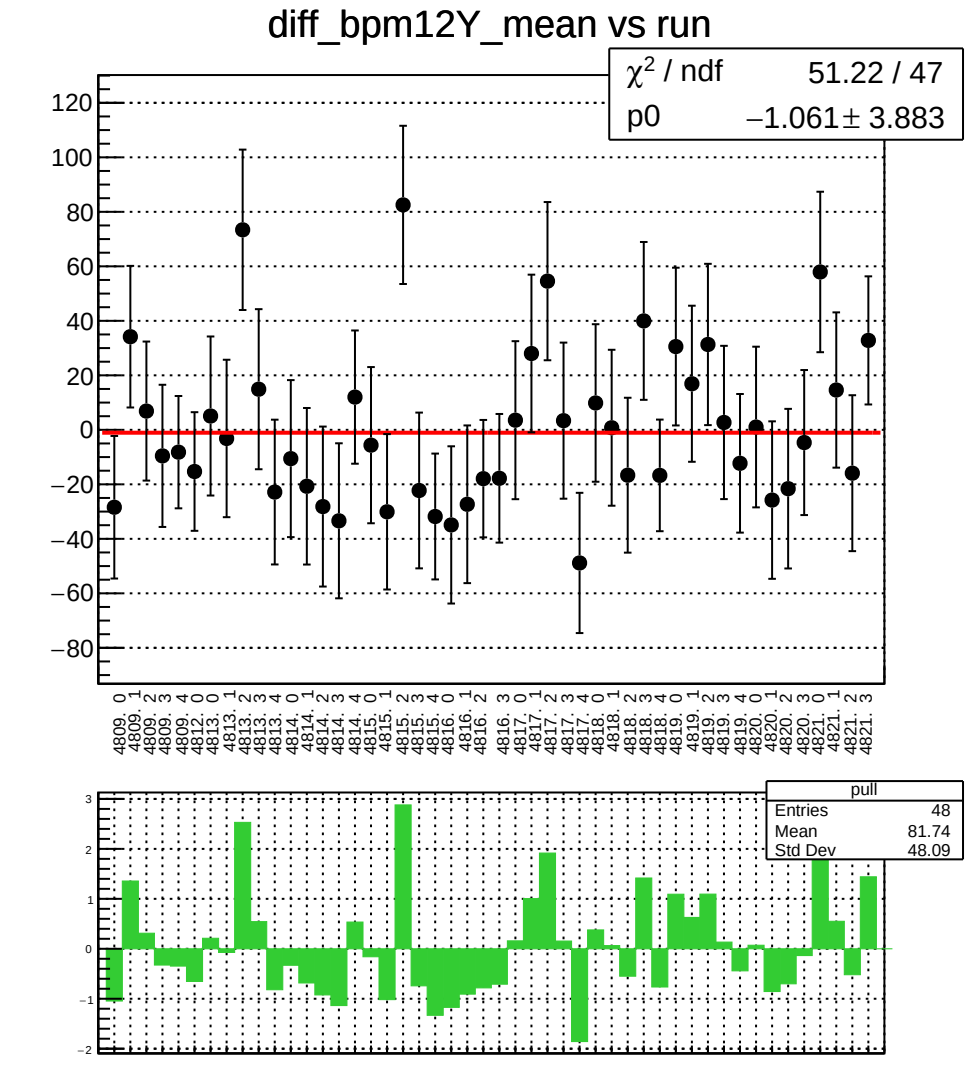

pull1D
Entries 48
Mean 0.02613
Std Dev 1.096

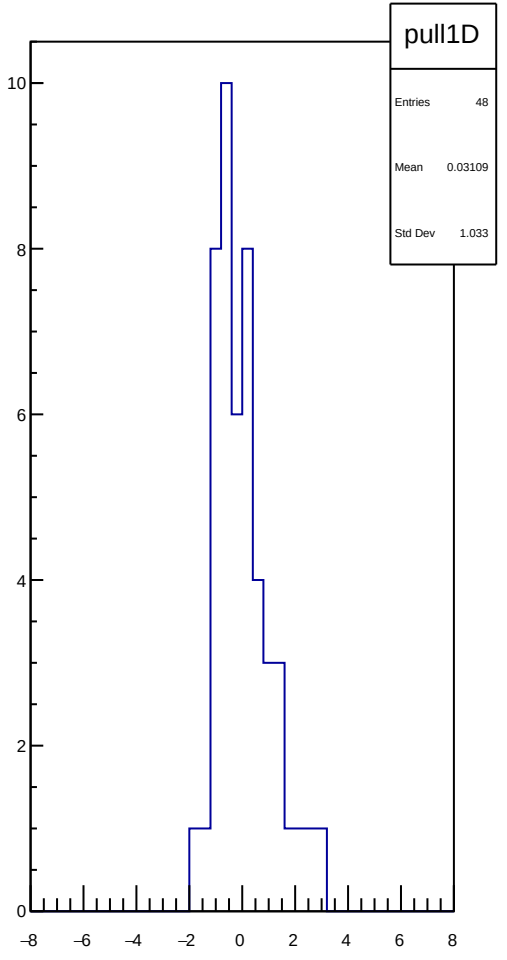

diff_bpm11Y_rms vs run
χ² / ndf 97.84 / 47
p0 1101 ± 1.116
1130
1120
1110
1100
1090
1080
1070
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

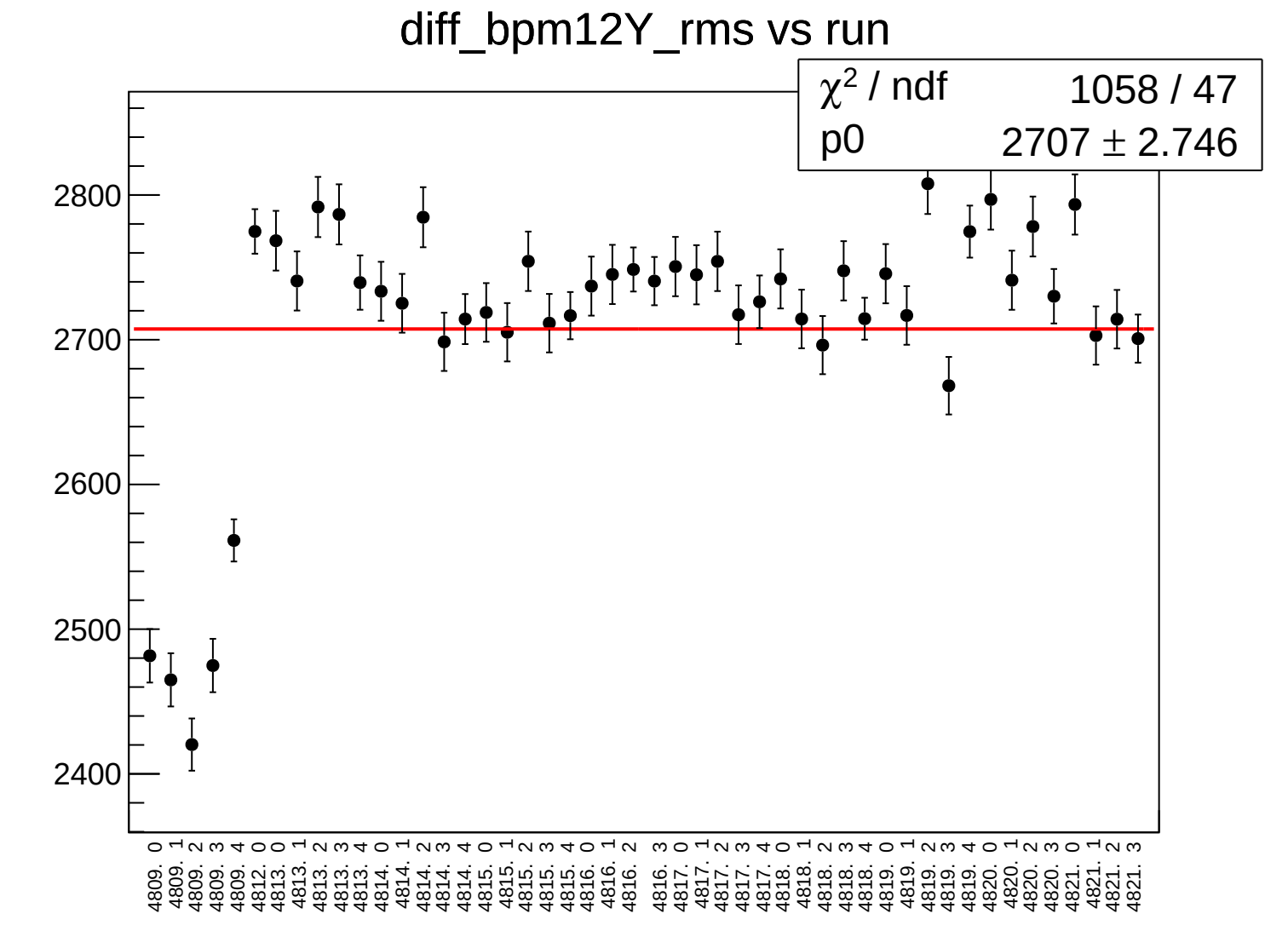

diff_bpm12X_mean vs run
χ² / ndf 50.78 / 47
p0 3.32 ± 8.018
200
100
0
−100
−200
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 4.546
Std Dev 12.04
2
1
0
−1
−2
−3

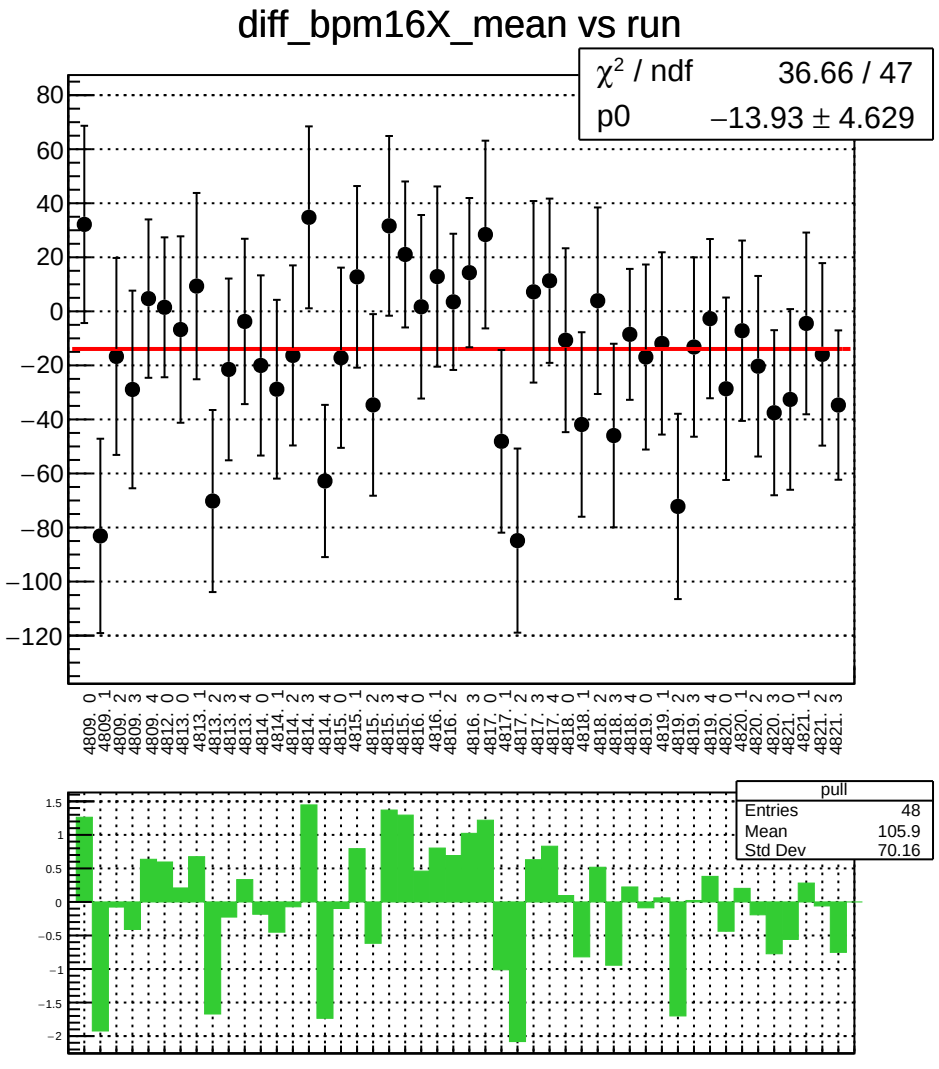

pull1D
Entries 48
Mean 0.01764
Std Dev 1.028
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

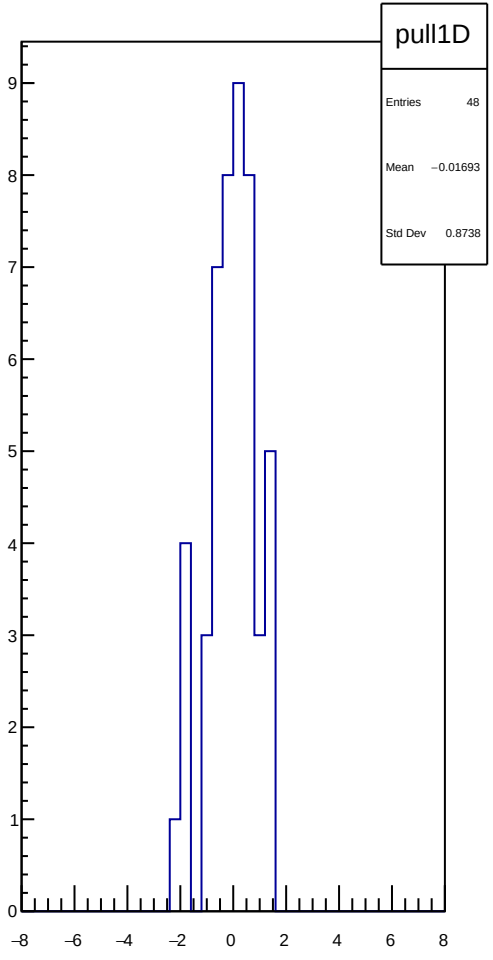

diff_bpm12X_rms vs run
χ² / ndf 407.1 / 47
p0 5593 ± 5.67
5800
5700
5600
5500
5400
5300
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

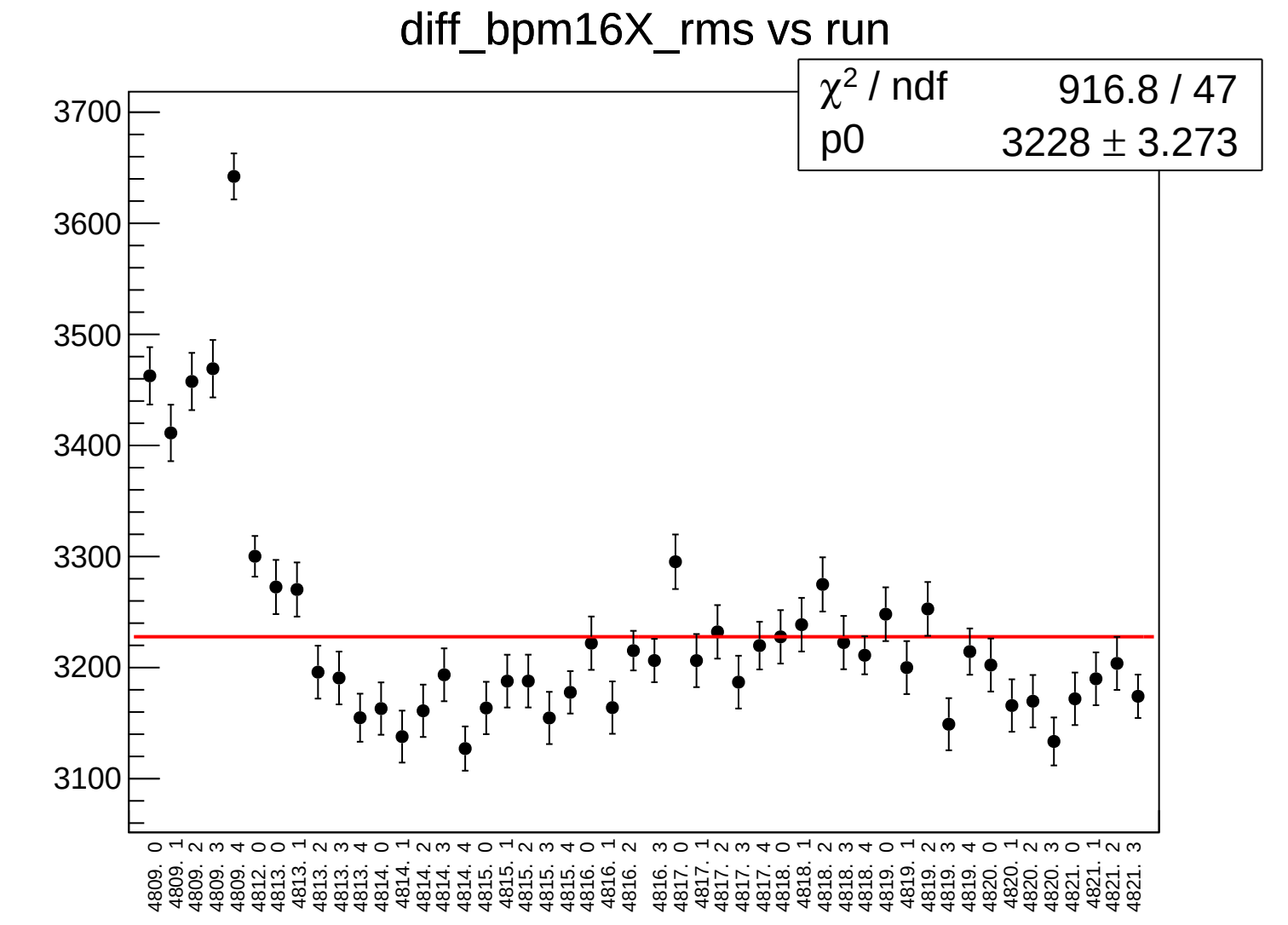

diff_bpm12Y_mean vs run
χ² / ndf 51.22 / 47
p0 −1.061± 3.883
pull
Entries 48
Mean 81.74
Std Dev 48.09

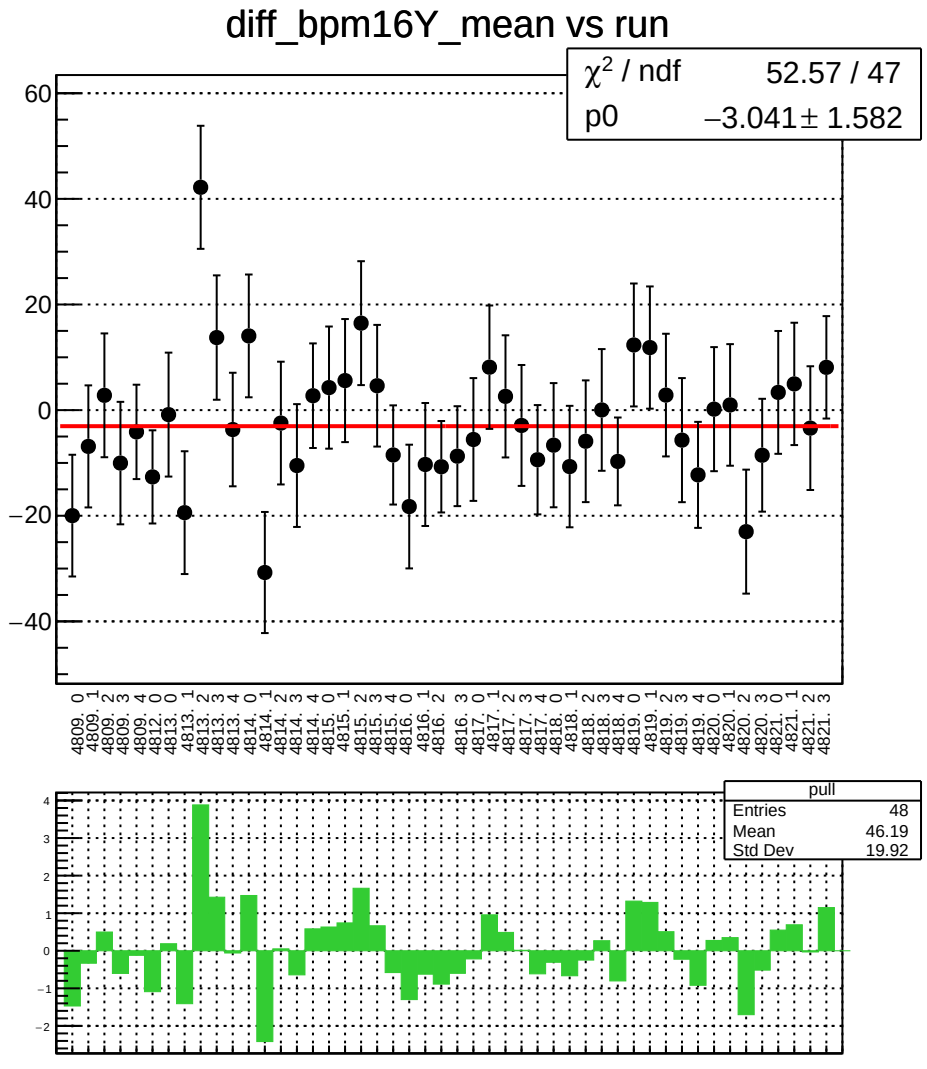

pull1D
Entries 48
Mean 0.03109
Std Dev 1.033

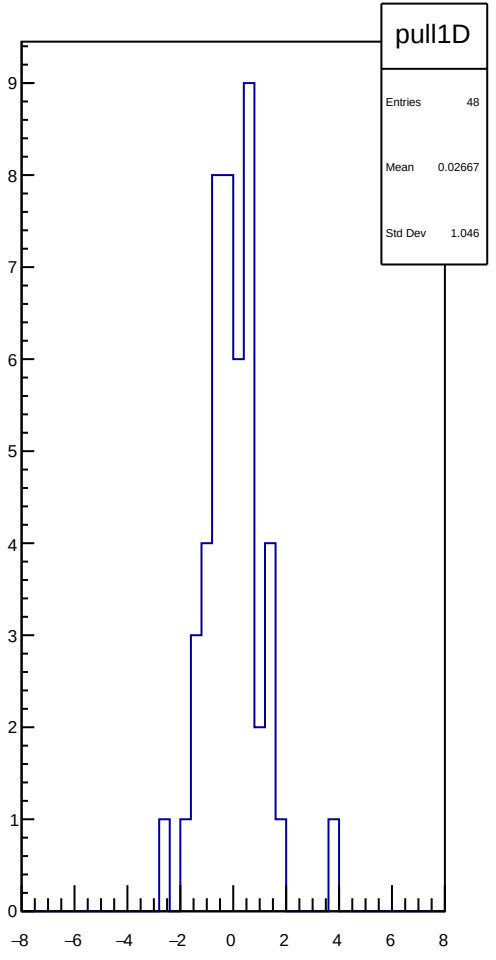

diff_bpm12Y_rms vs run
χ² / ndf 1058 / 47
p0 2707 ± 2.746
2800
2700
2600
2500
2400
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

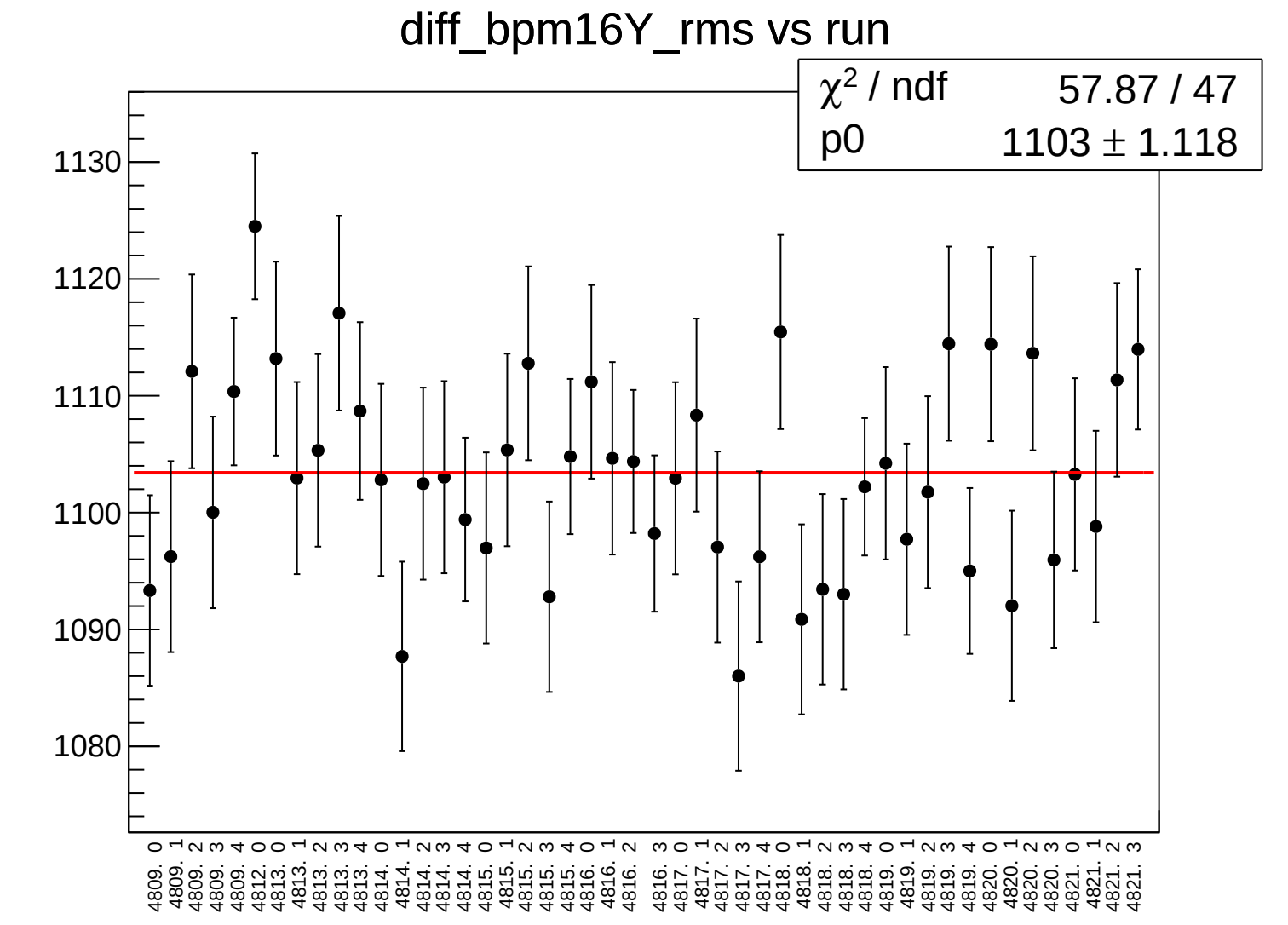

diff_bpm16X_mean vs run
χ² / ndf 36.66 / 47
p0 −13.93 ± 4.629
pull
Entries 48
Mean 105.9
Std Dev 70.16

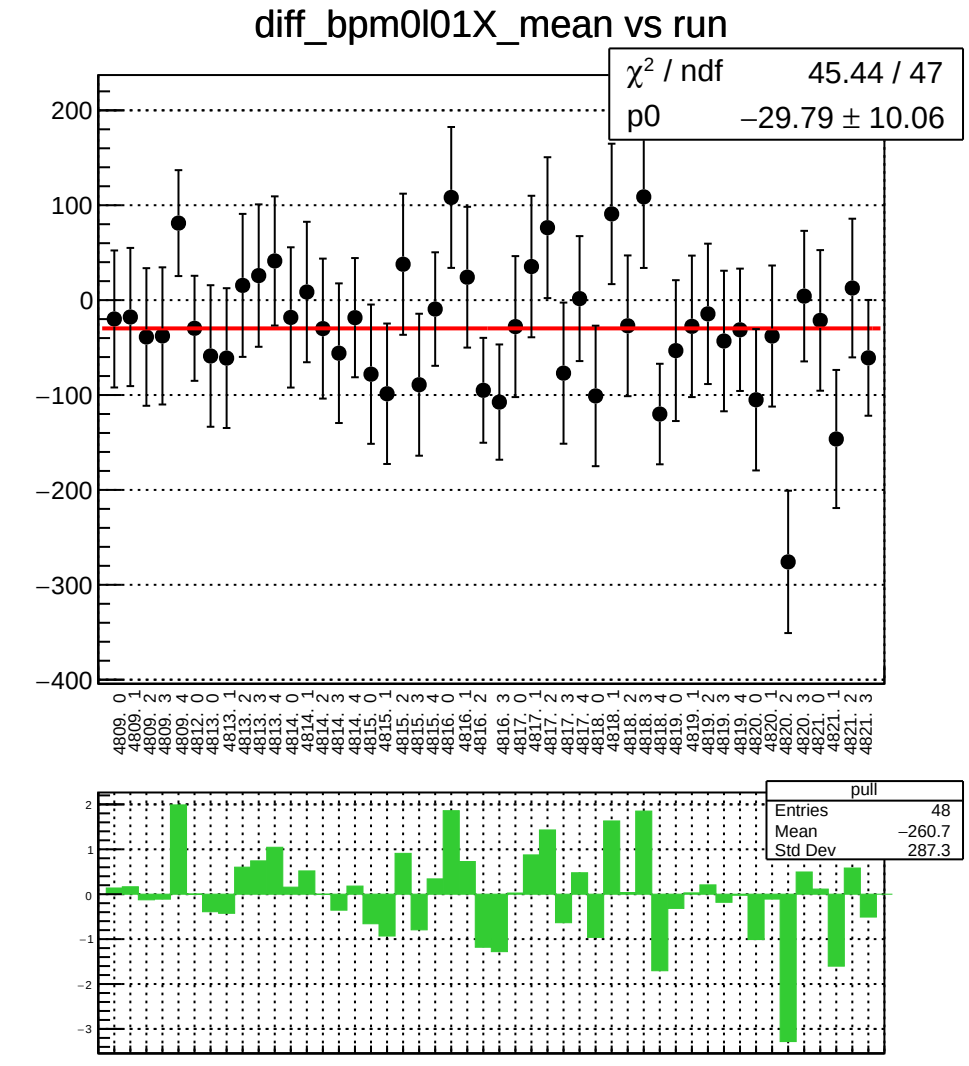

pull1D
Entries 48
Mean −0.01693
Std Dev 0.8738

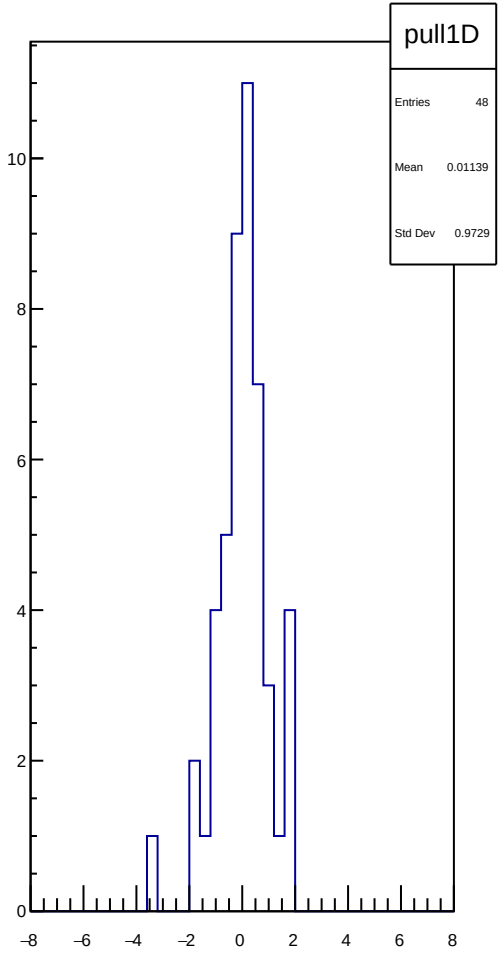

diff_bpm16X_rms vs run
χ² / ndf 916.8 / 47
p0 3228 ± 3.273
3700
3600
3500
3400
3300
3200
3100
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

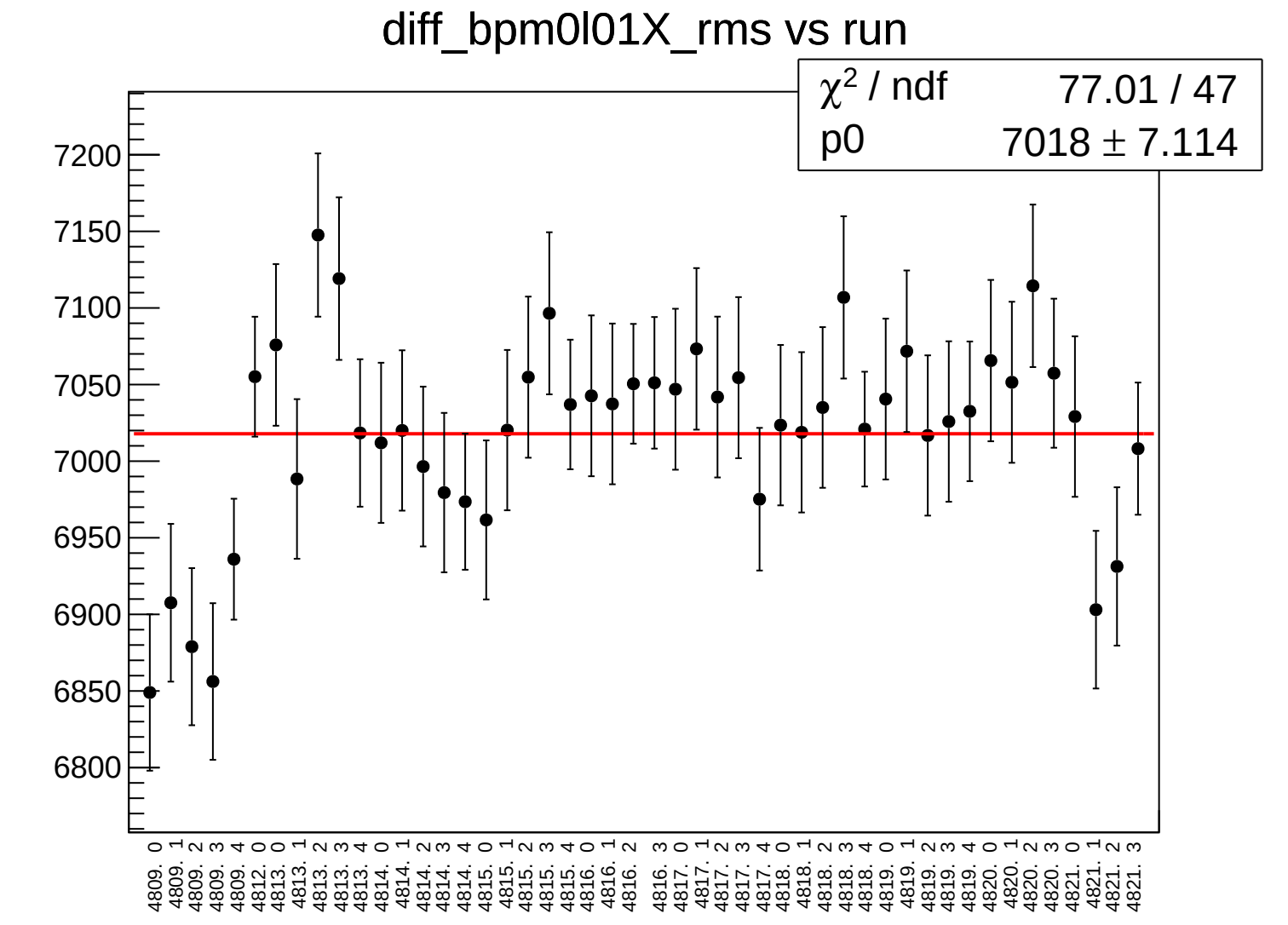

diff_bpm16Y_mean vs run
χ² / ndf 52.57 / 47
p0 −3.041± 1.582
pull
Entries 48
Mean 46.19
Std Dev 19.92

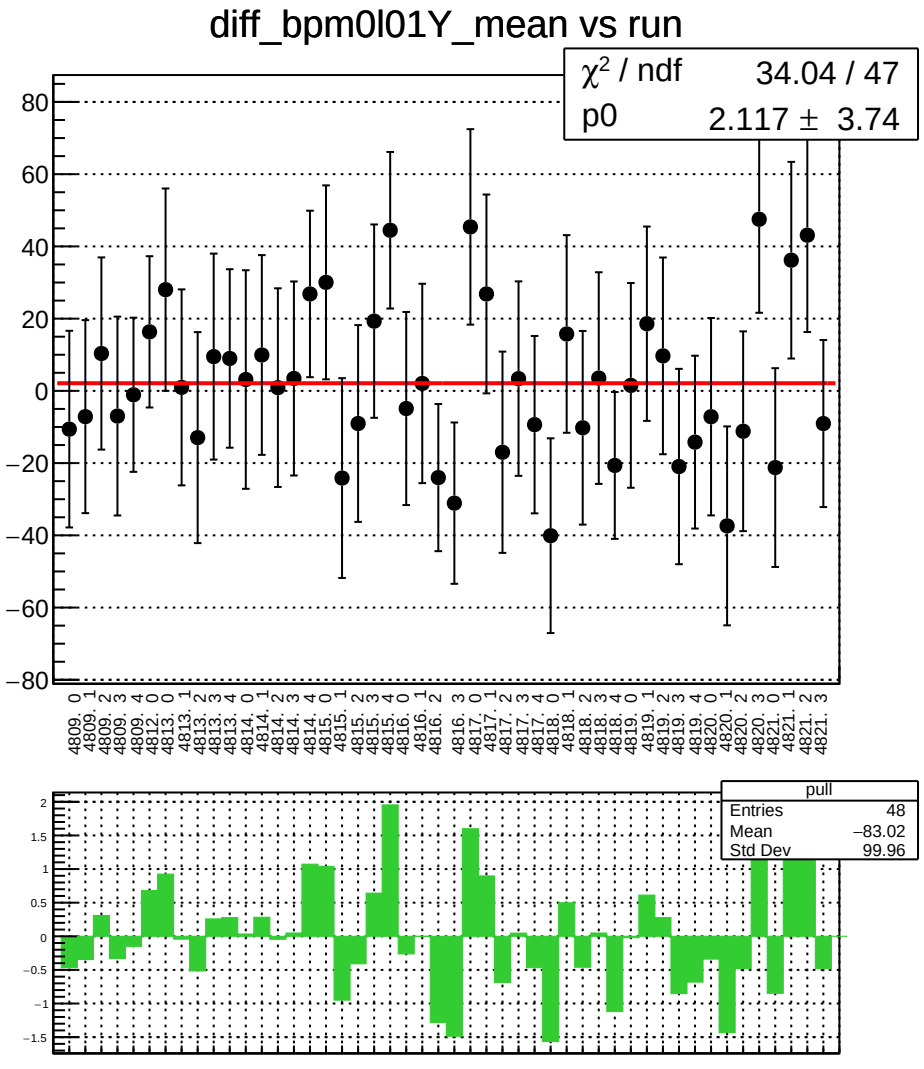

pull1D
Entries 48
Mean 0.02667
Std Dev 1.046

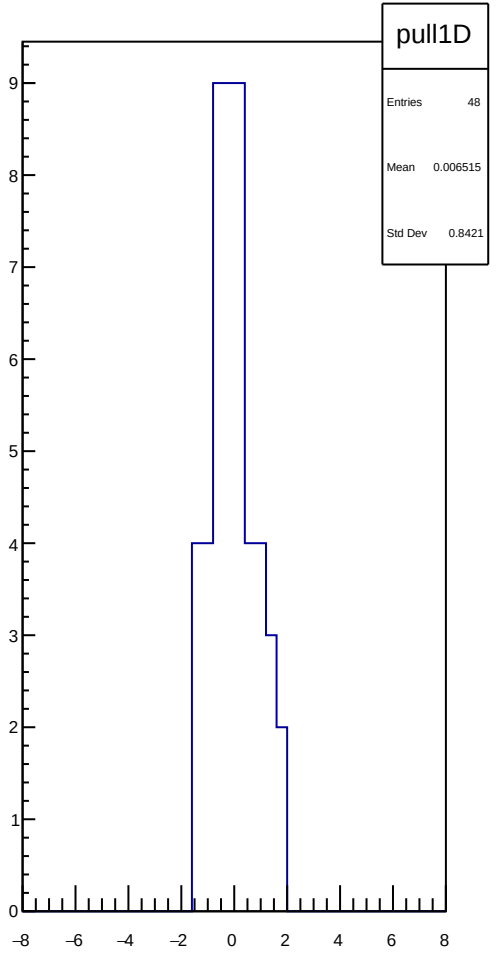

diff_bpm16Y_rms vs run
χ² / ndf 57.87 / 47
p0 1103 ± 1.118
1130
1120
1110
1100
1090
1080
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

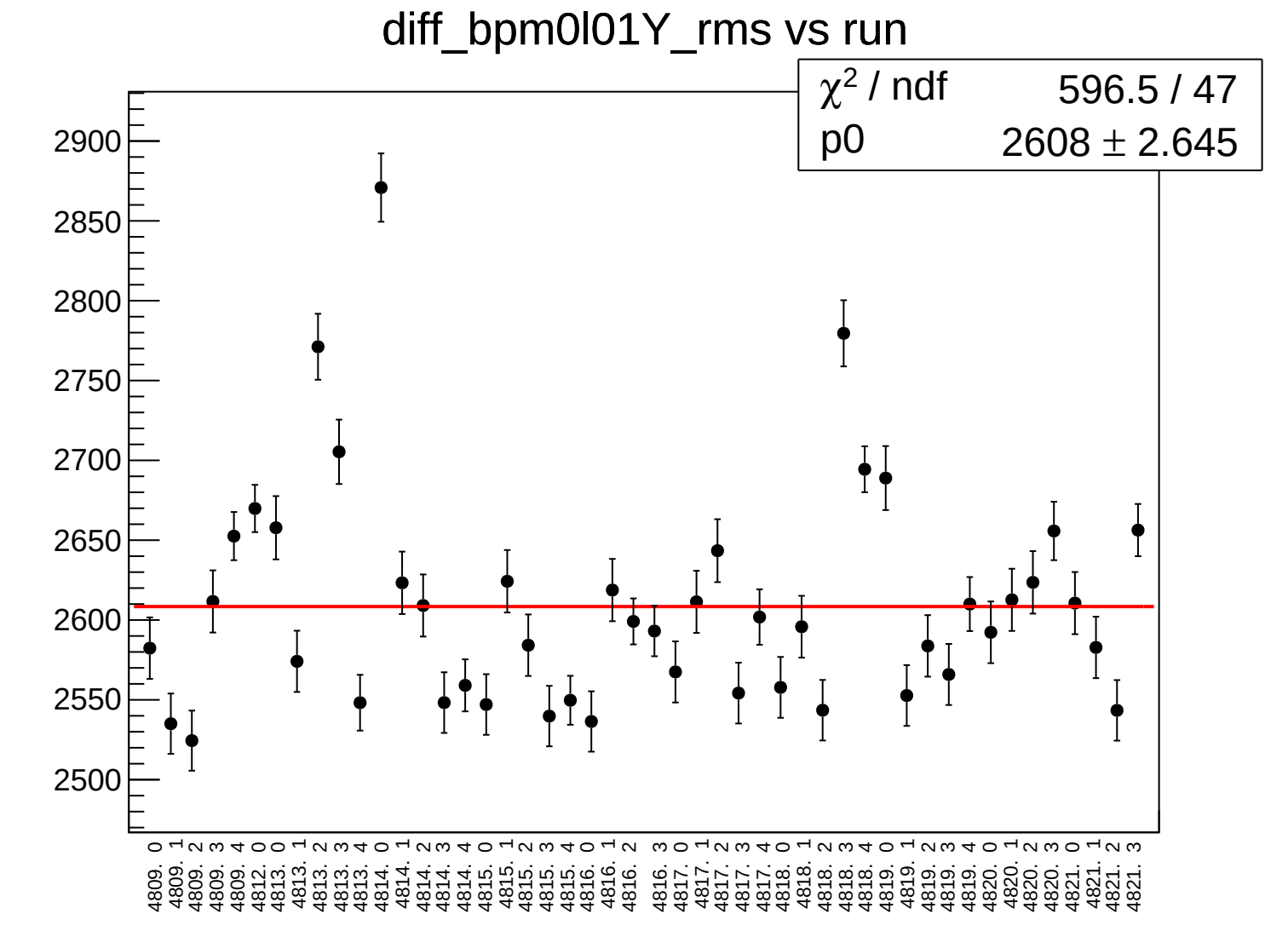

diff_bpm0l01X_mean vs run
χ² / ndf 45.44 / 47
p0 −29.79 ± 10.06
pull
Entries 48
Mean −260.7
Std Dev 287.3

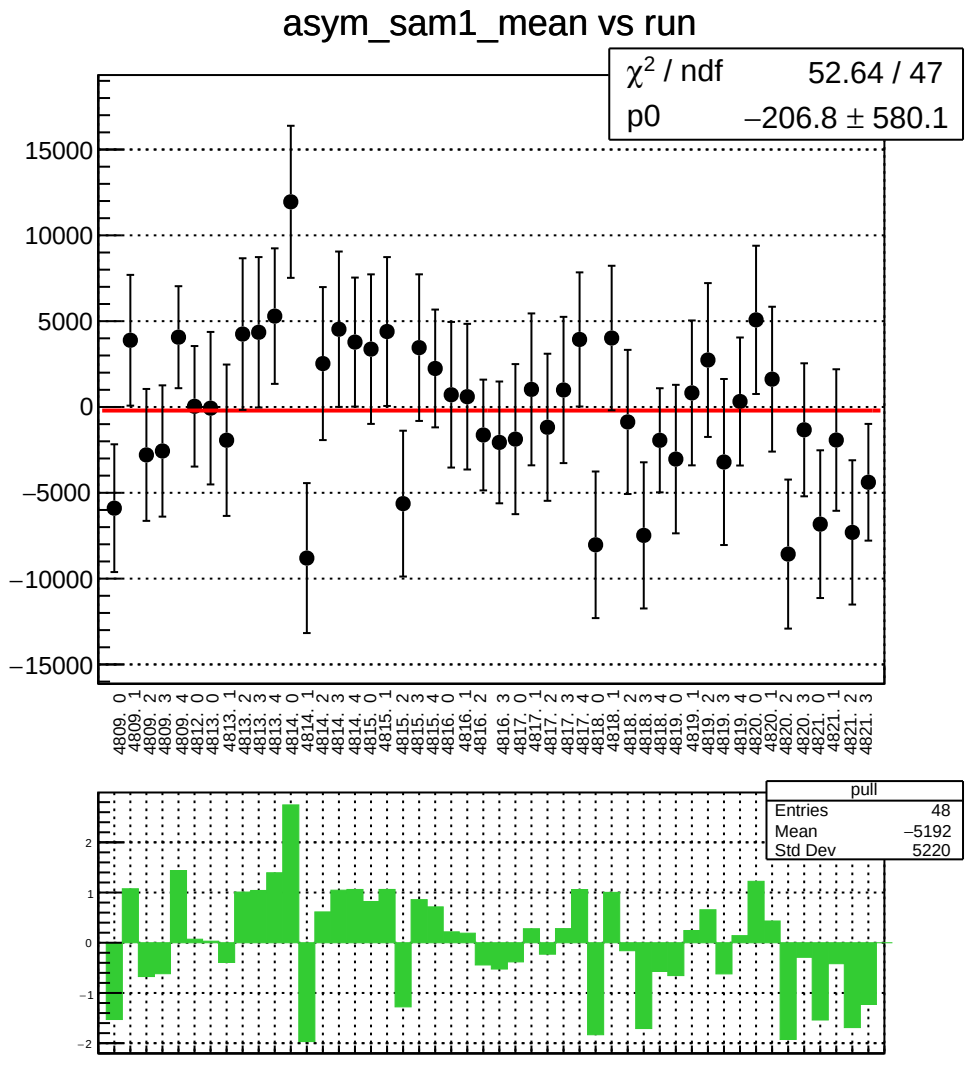

pull1D
Entries 48
Mean 0.01139
Std Dev 0.9729

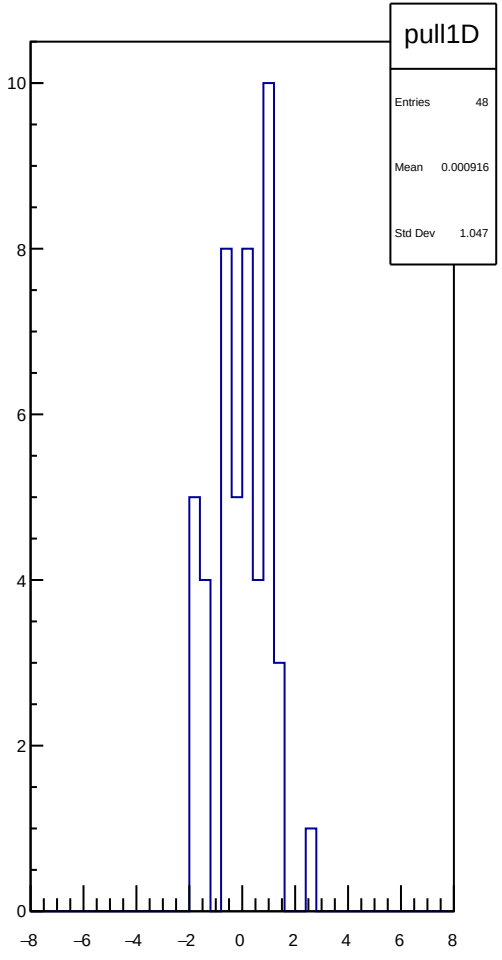

diff_bpm0l01X_rms vs run
χ² / ndf 77.01 / 47
p0 7018 ± 7.114
7200
7150
7100
7050
7000
6950
6900
6850
6800
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

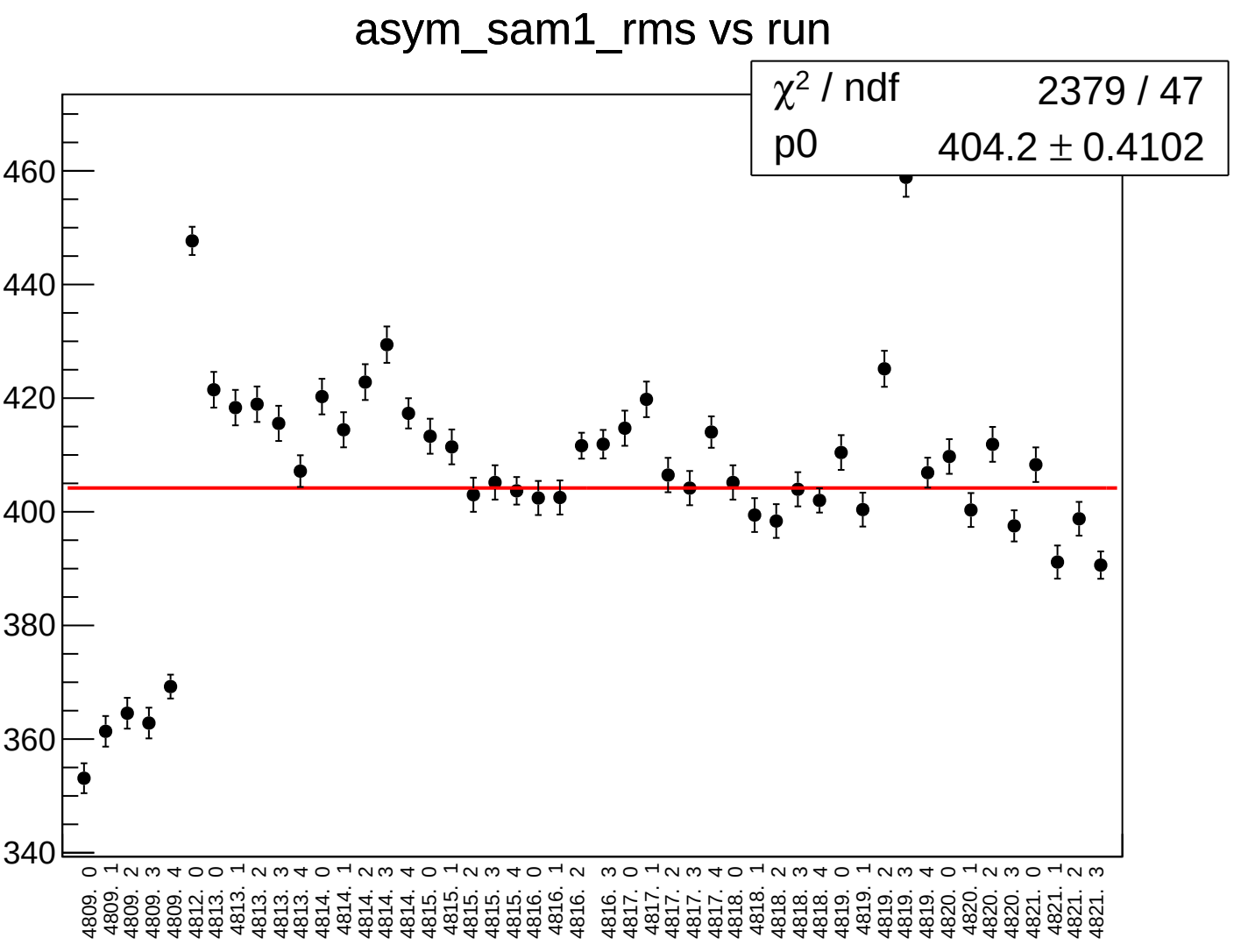

diff_bpm0l01Y_mean vs run
χ² / ndf 34.04 / 47
p0 2.117 ± 3.74
pull
Entries 48
Mean −83.02
Std Dev 99.96

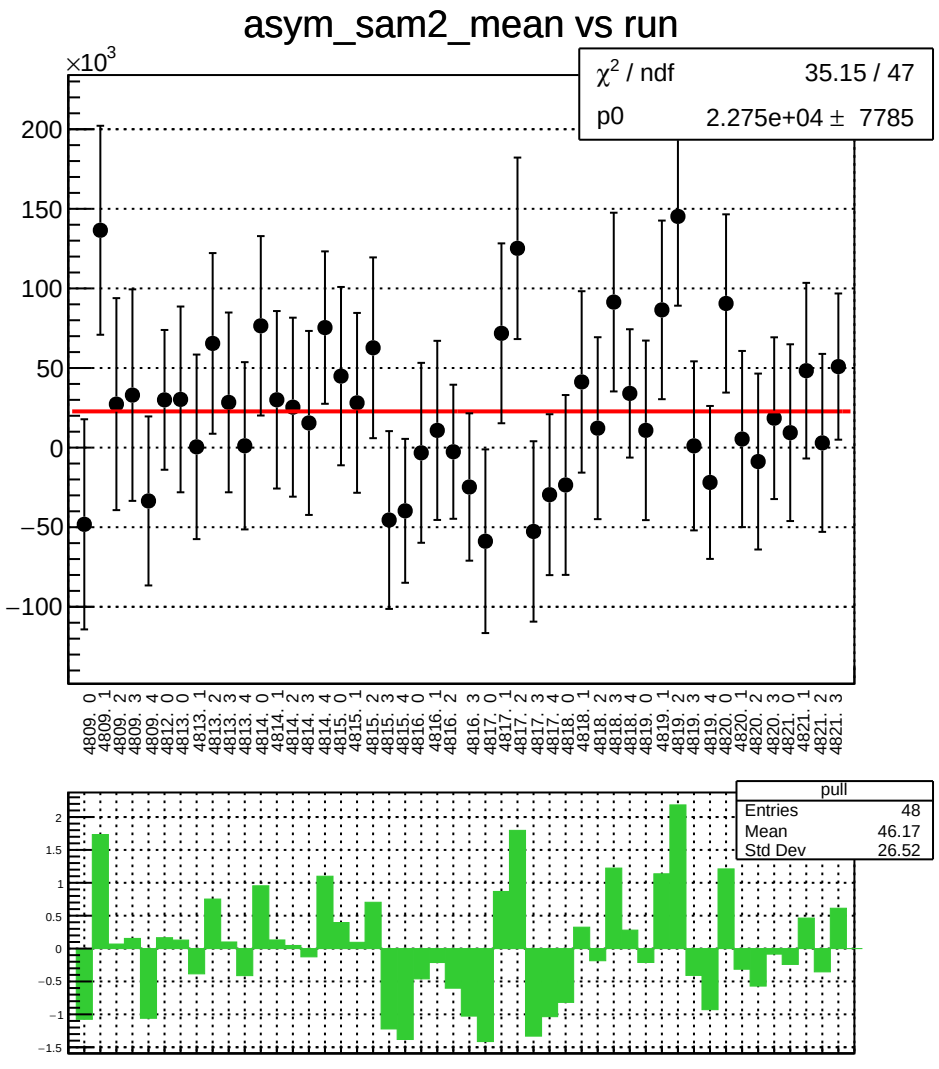

pull1D
Entries 48
Mean 0.006515
Std Dev 0.8421

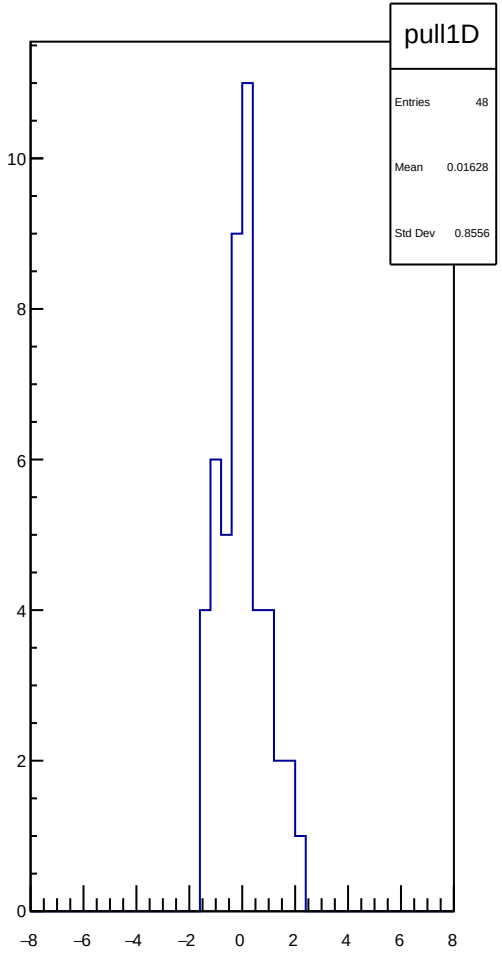

diff_bpm0l01Y_rms vs run
χ² / ndf 596.5 / 47
p0 2608 ± 2.645
2900
2850
2800
2750
2700
2650
2600
2550
2500
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

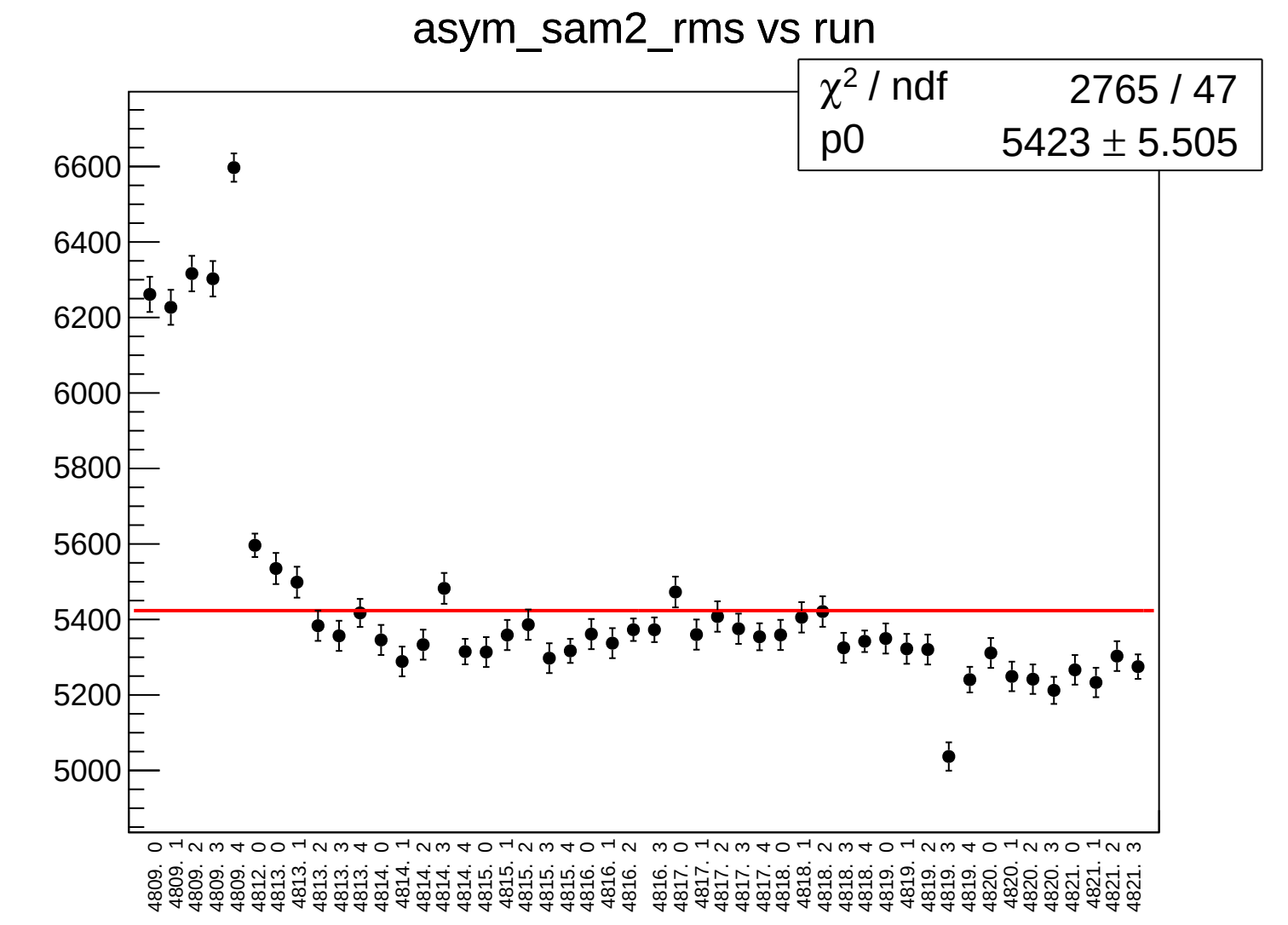

asym_sam1_mean vs run
χ² / ndf 52.64 / 47
p0 −206.8 ± 580.1
15000
10000
5000
0
−5000
−10000
−15000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean −5192
Std Dev 5220
2
1
0
−1
−2

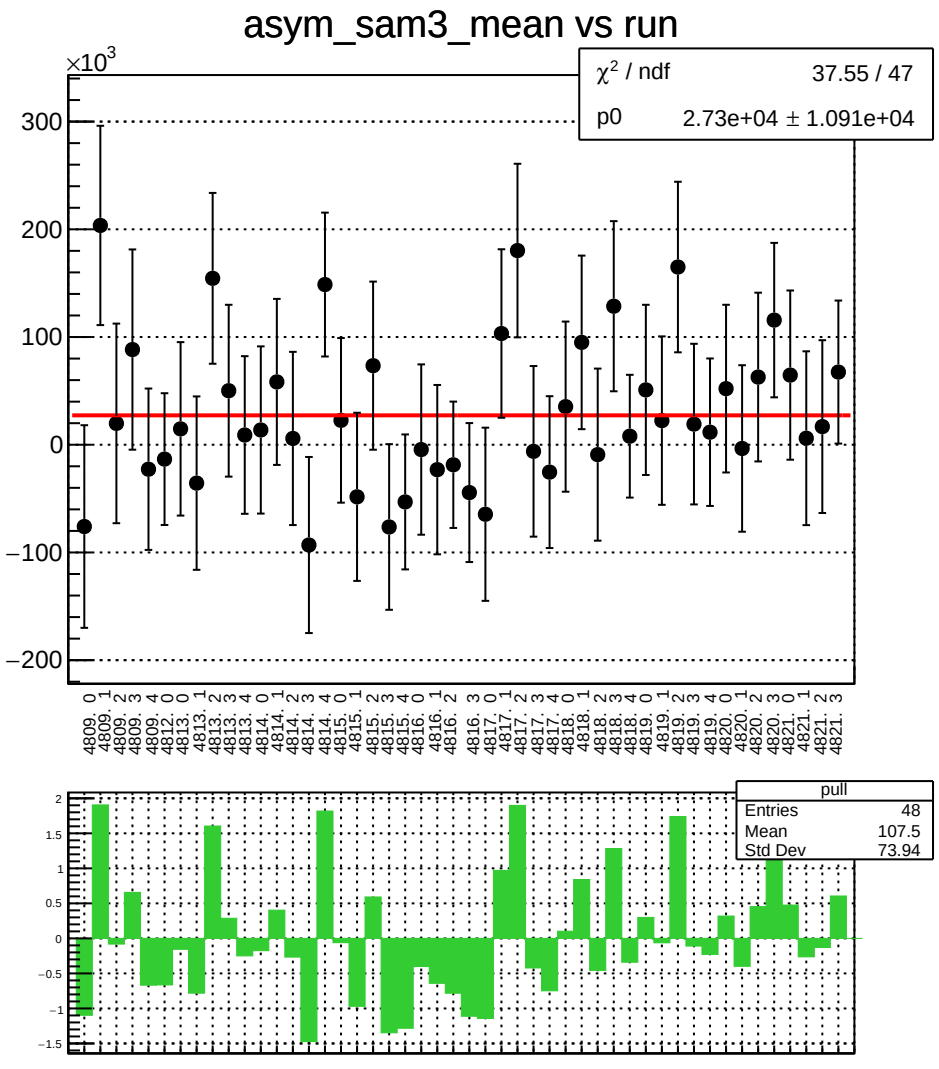

pull1D
Entries 48
Mean 0.000916
Std Dev 1.047
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

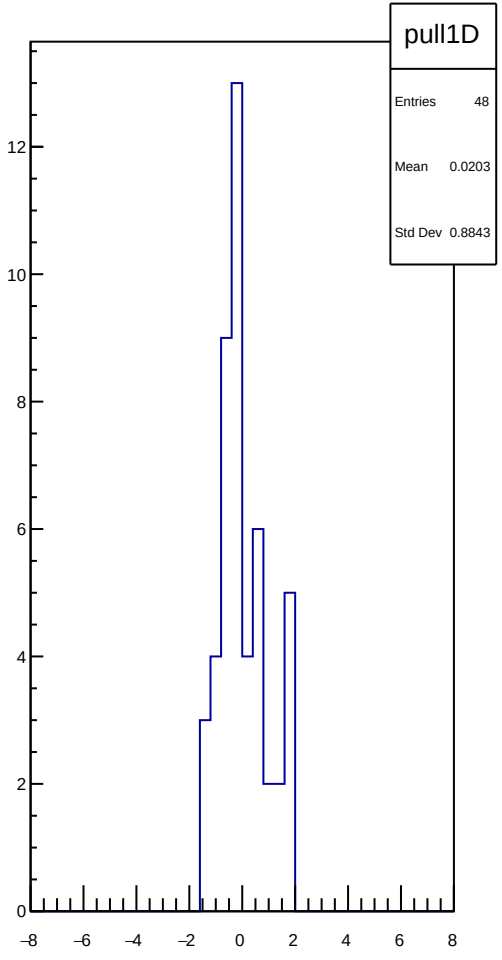

asym_sam1_rms vs run
χ² / ndf 2379 / 47
p0 404.2 ± 0.4102
460
440
420
400
380
360
340
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

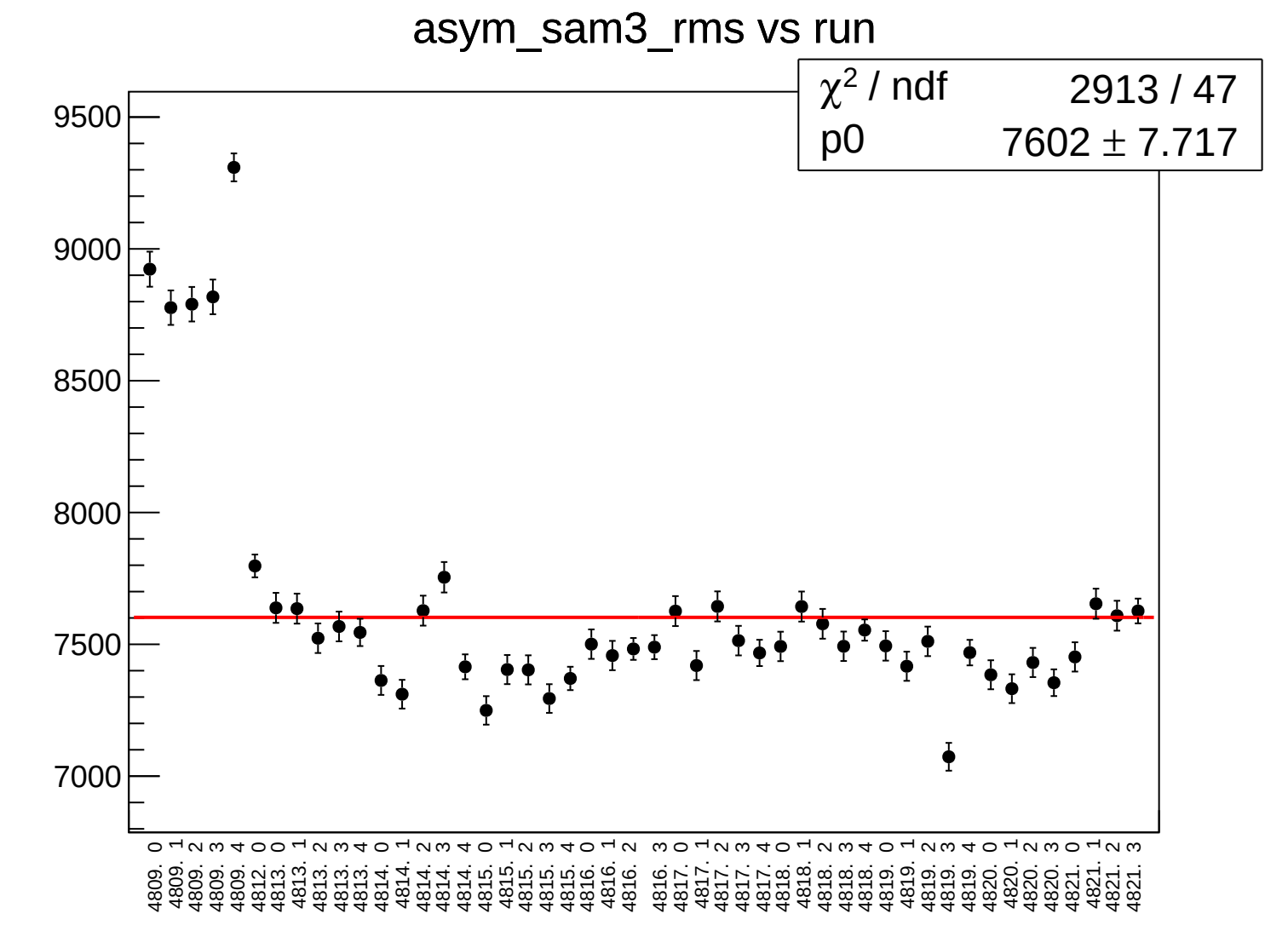

asym_sam2_mean vs run
×10^3
χ² / ndf 35.15 / 47
p0 2.275e+04 ± 7785
200
150
100
50
0
−50
−100
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 46.17
Std Dev 26.52
2
1.5
1
0.5
0
−0.5
−1
−1.5

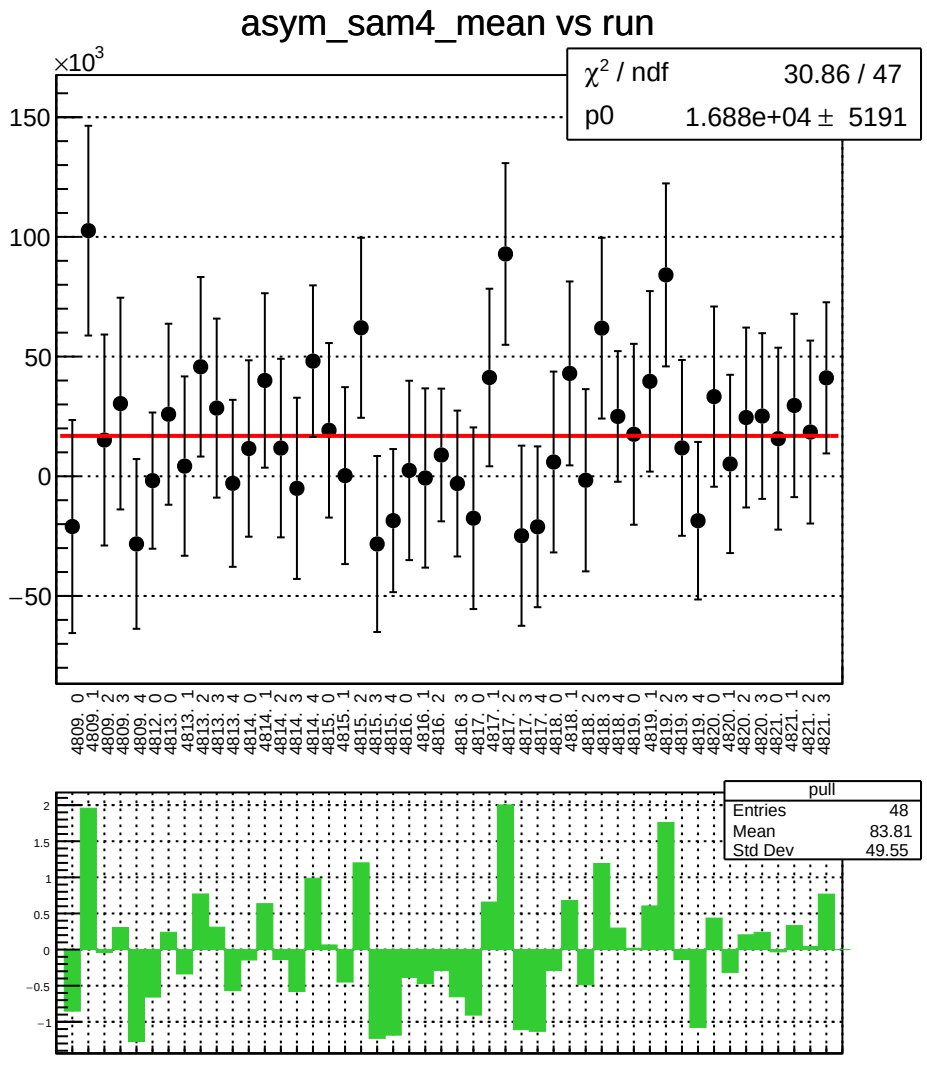

pull1D
Entries 48
Mean 0.01628
Std Dev 0.8556
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

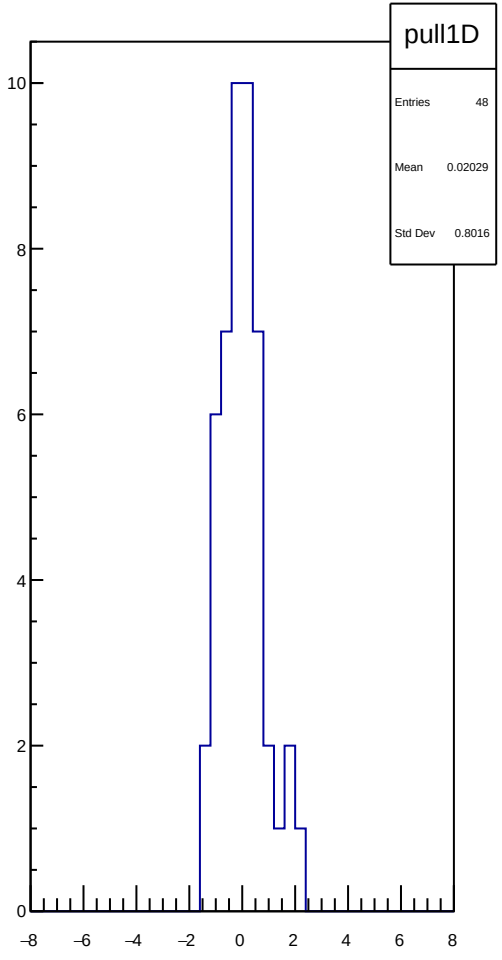

asym_sam2_rms vs run
χ² / ndf 2765 / 47
p0 5423 ± 5.505
6600
6400
6200
6000
5800
5600
5400
5200
5000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

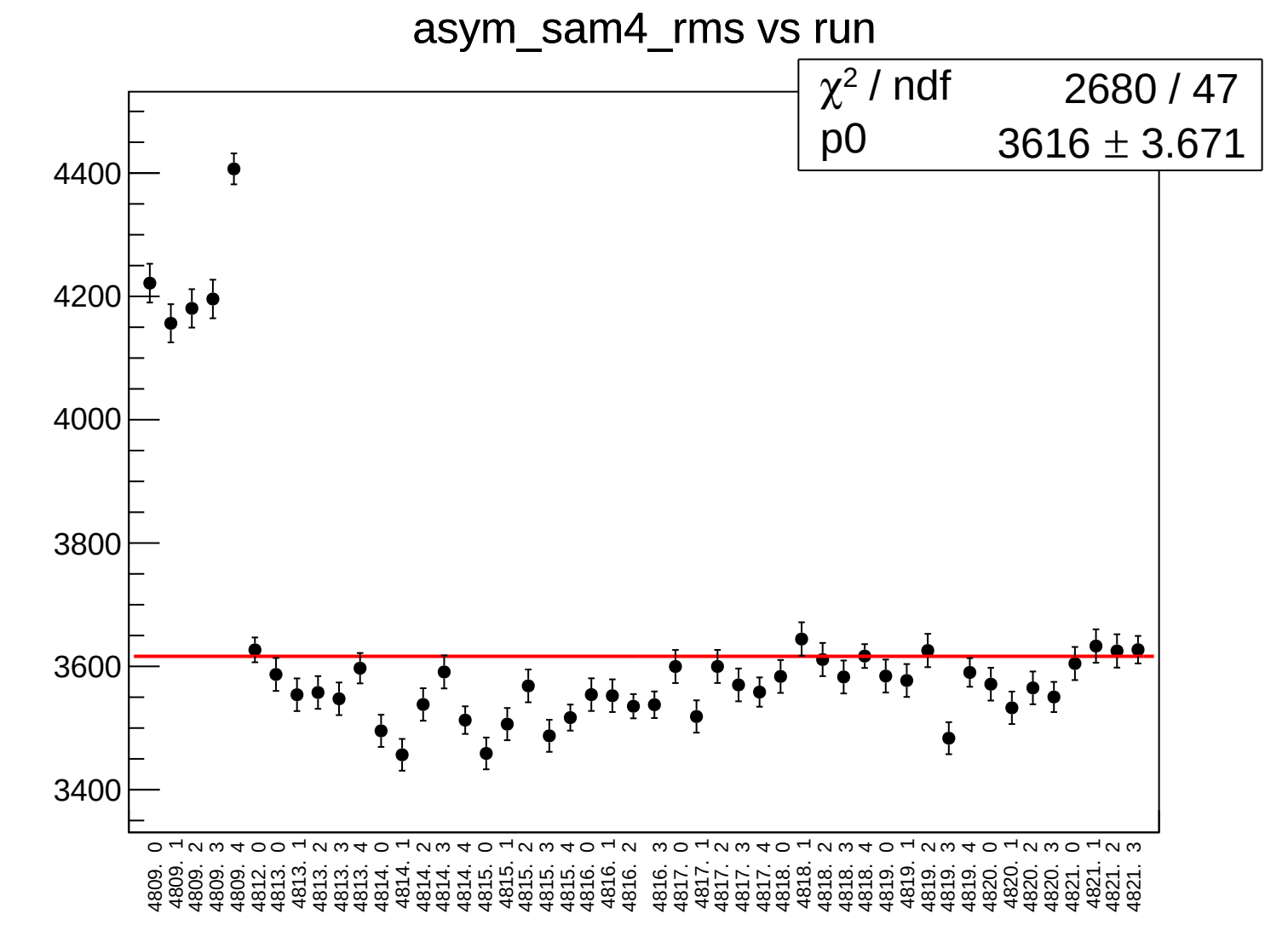

asym_sam3_mean vs run
×10^3
χ² / ndf 37.55 / 47
p0 2.73e+04 ± 1.091e+04
300
200
100
0
−100
−200
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 107.5
Std Dev 73.94
2
1.5
1
0.5
0
−0.5
−1
−1.5

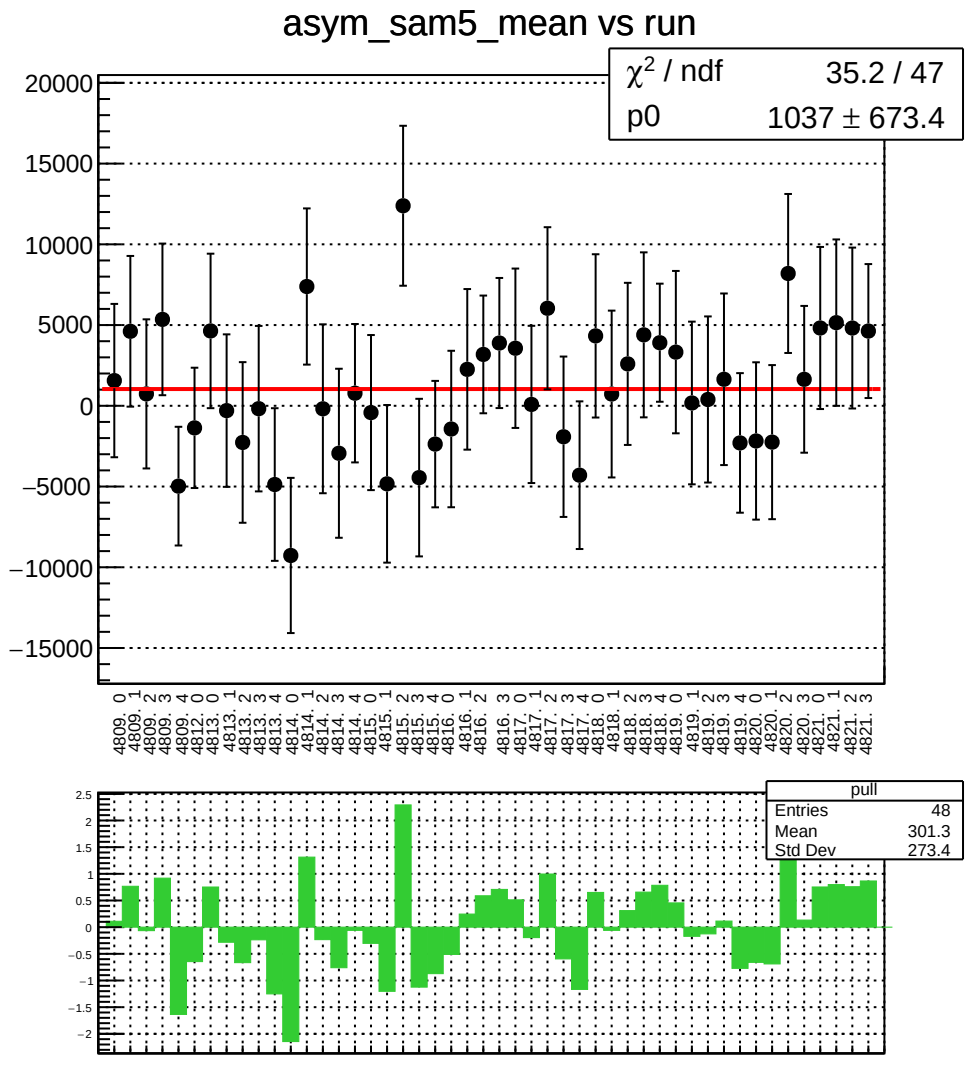

pull1D
Entries 48
Mean 0.0203
Std Dev 0.8843
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

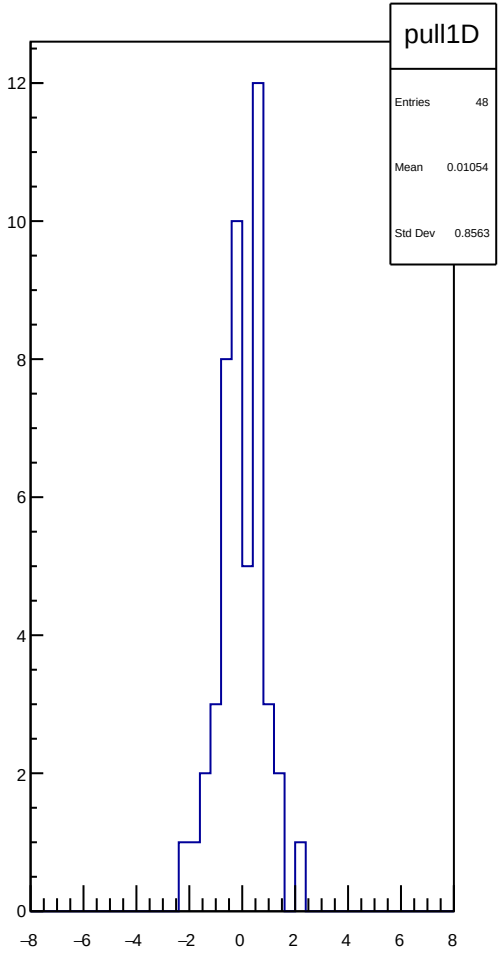

asym_sam3_rms vs run
χ² / ndf 2913 / 47
p0 7602 ± 7.717
9500
9000
8500
8000
7500
7000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

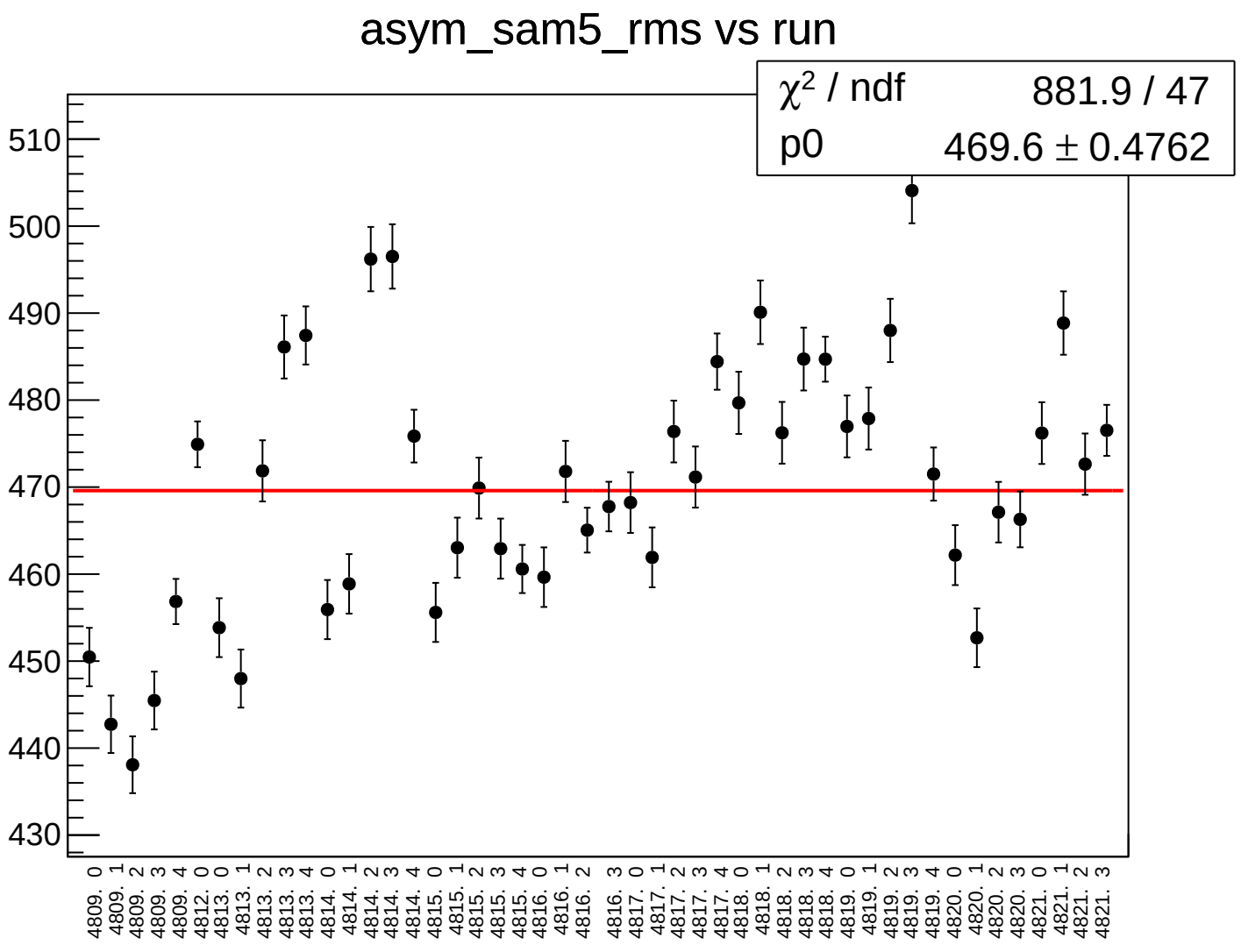

asym_sam4_mean vs run
×10^3
χ² / ndf 30.86 / 47
p0 1.688e+04 ± 5191
150
100
50
0
−50
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 83.81
Std Dev 49.55
2
1.5
1
0.5
0
−0.5
−1

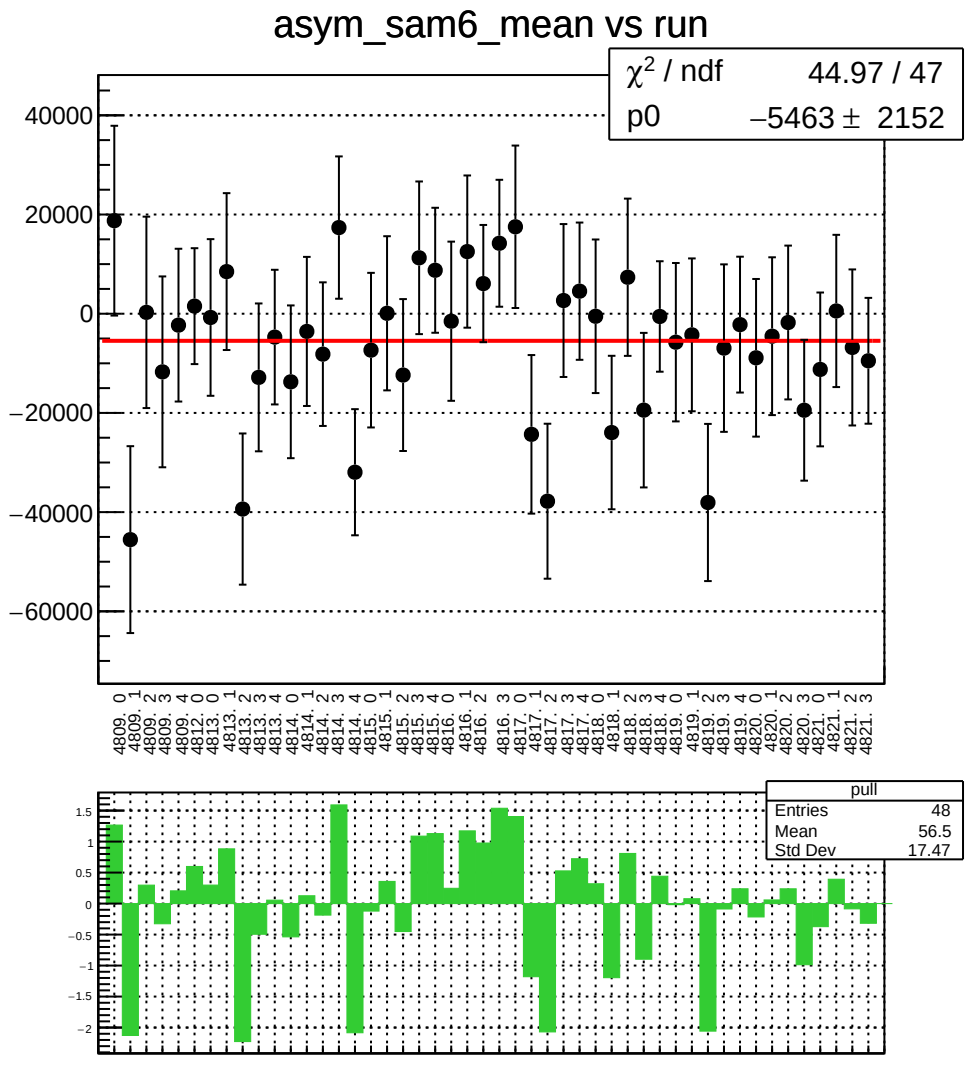

pull1D
Entries 48
Mean 0.02029
Std Dev 0.8016
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

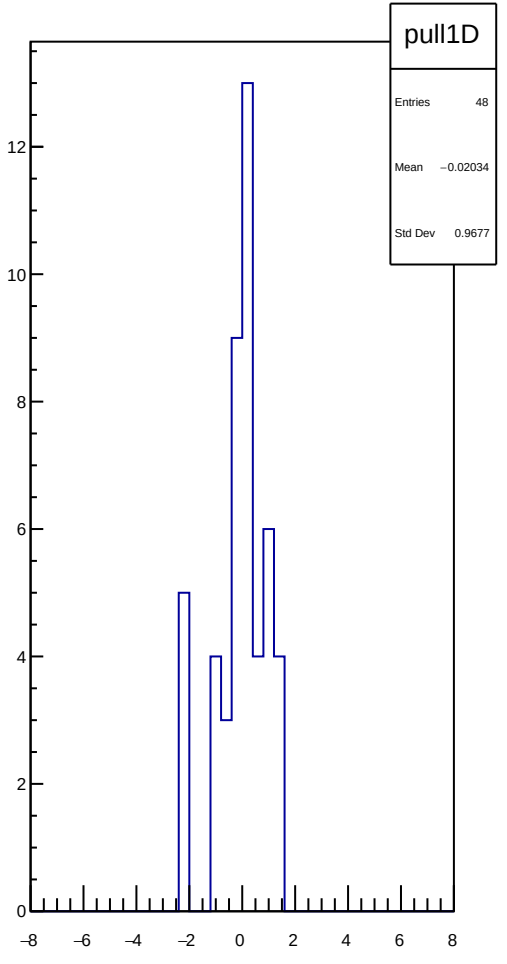

asym_sam4_rms vs run
χ² / ndf 2680 / 47
p0 3616 ± 3.671
4400
4200
4000
3800
3600
3400
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

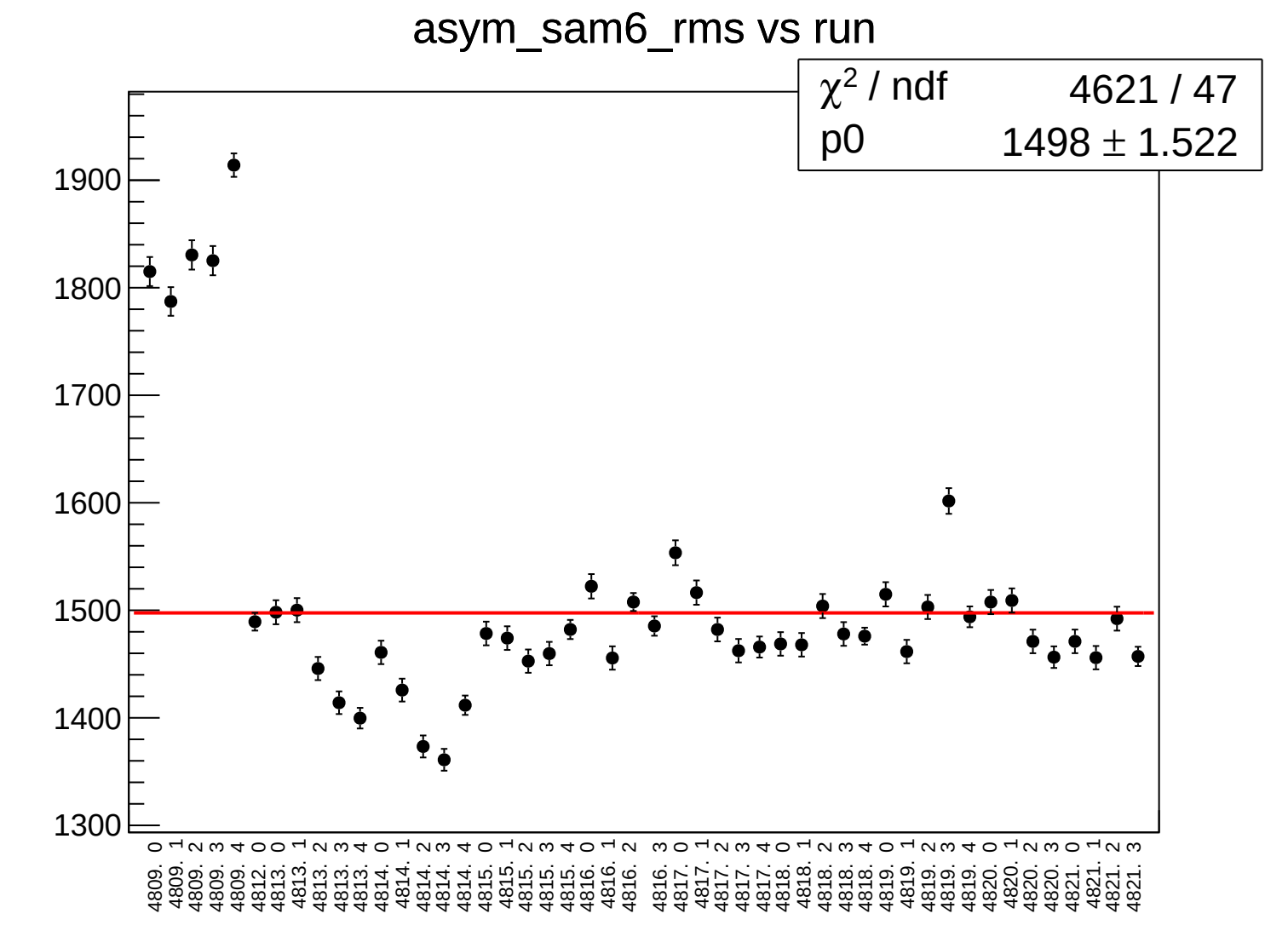

asym_sam5_mean vs run
χ² / ndf 35.2 / 47
p0 1037 ± 673.4
pull
Entries 48
Mean 301.3
Std Dev 273.4

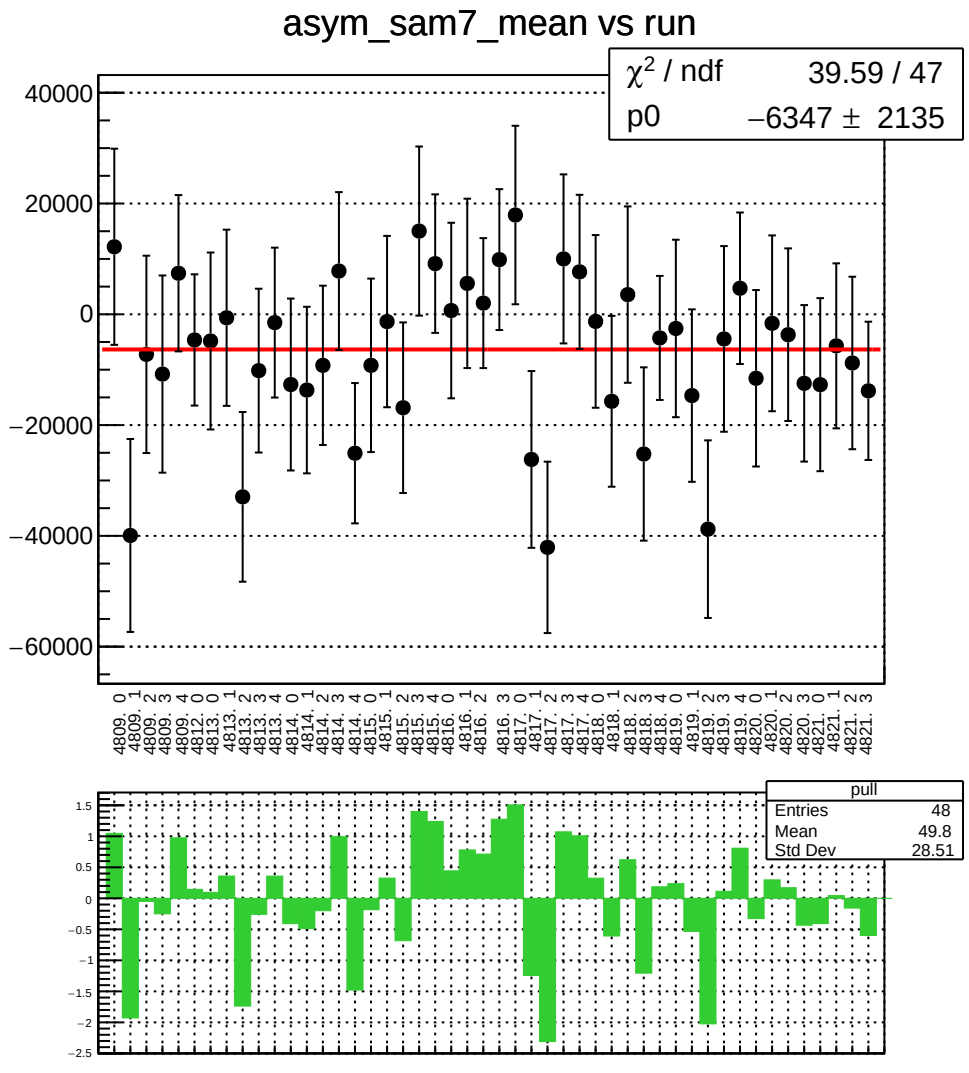

pull1D
Entries 48
Mean 0.01054
Std Dev 0.8563

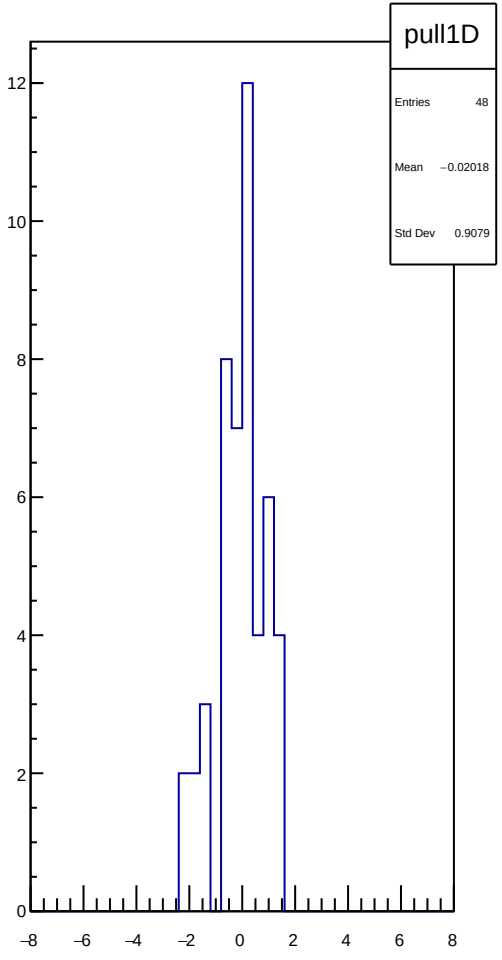

asym_sam5_rms vs run
χ² / ndf 881.9 / 47
p0 469.6 ± 0.4762
510
500
490
480
470
460
450
440
430
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

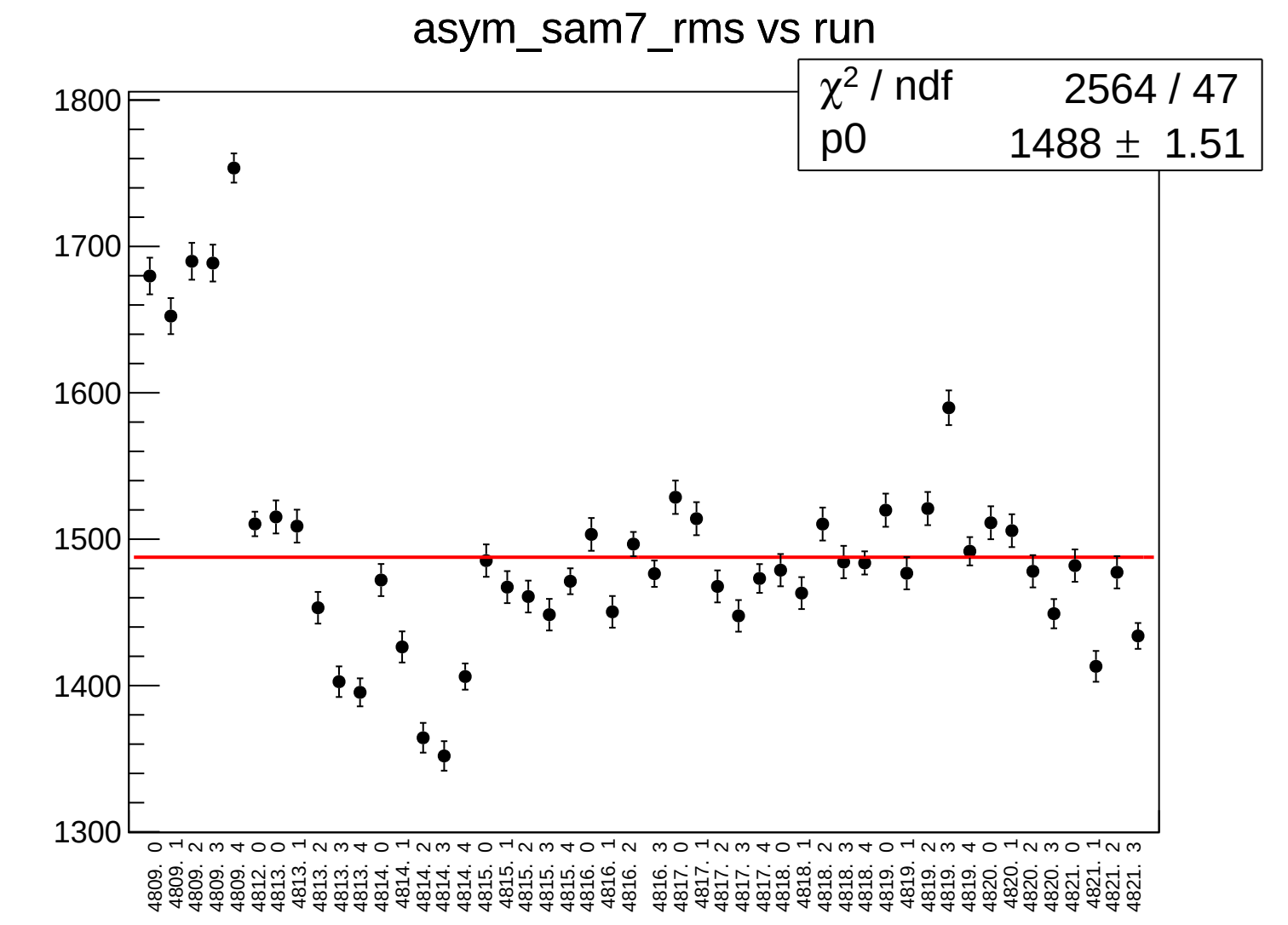

asym_sam6_mean vs run
χ² / ndf 44.97 / 47
p0 −5463 ± 2152
40000
20000
0
−20000
−40000
−60000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 56.5
Std Dev 17.47
1.5
1
0.5
0
−0.5
−1
−1.5
−2

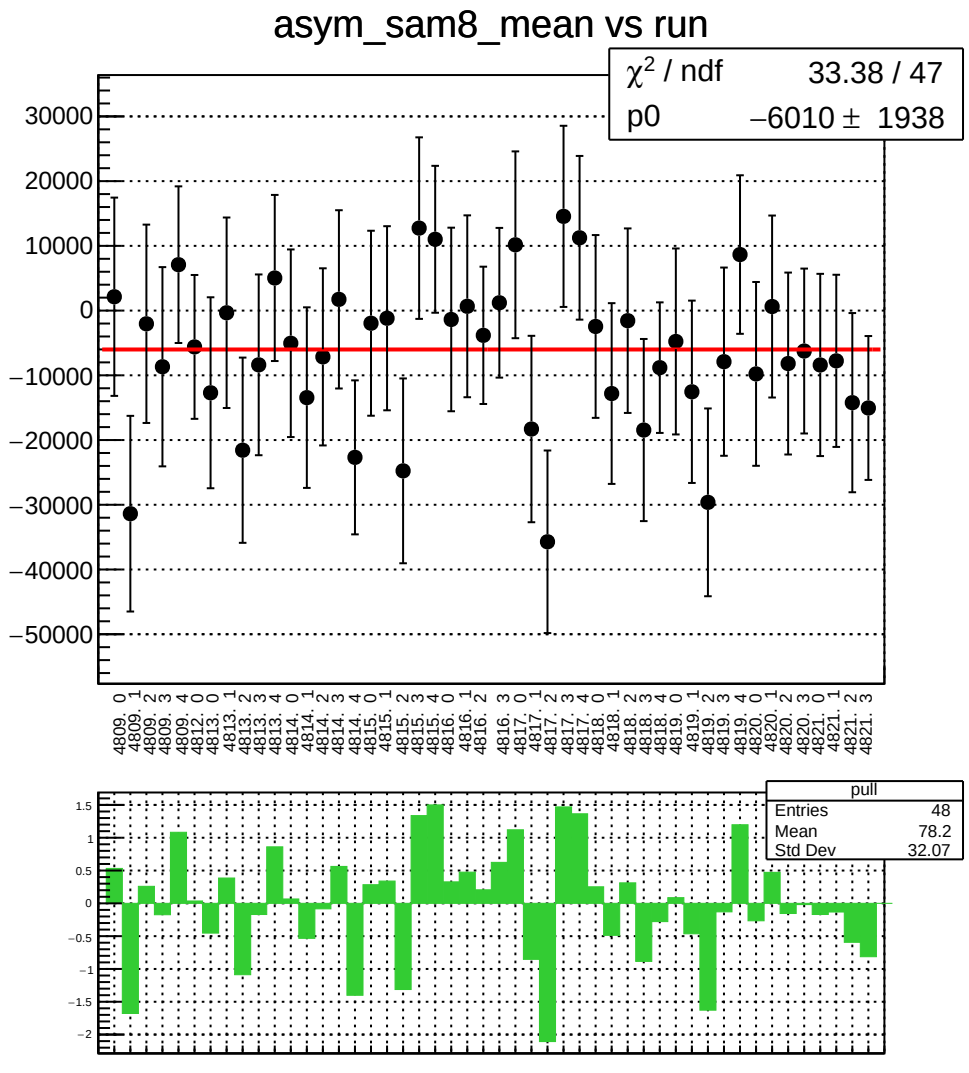

pull1D
Entries 48
Mean −0.02034
Std Dev 0.9677
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

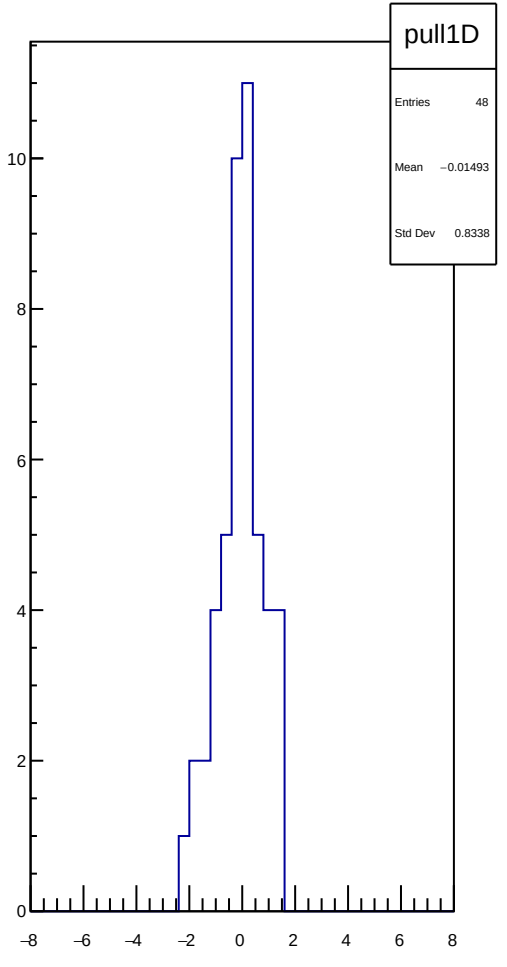

asym_sam6_rms vs run
χ² / ndf 4621 / 47
p0 1498 ± 1.522
1900
1800
1700
1600
1500
1400
1300
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

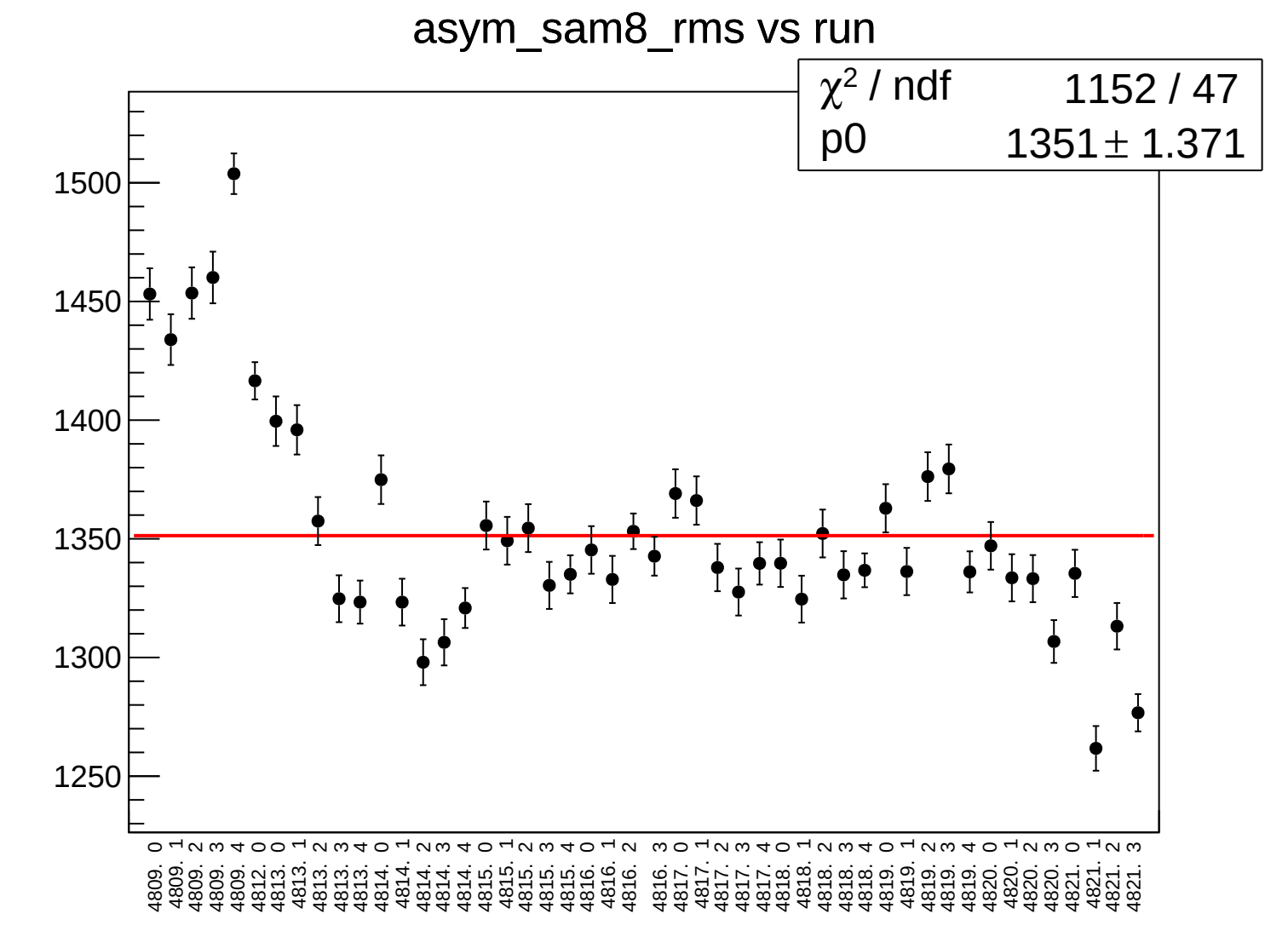

asym_sam7_mean vs run
χ² / ndf 39.59 / 47
p0 −6347 ± 2135
40000
20000
0
−20000
−40000
−60000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 49.8
Std Dev 28.51
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

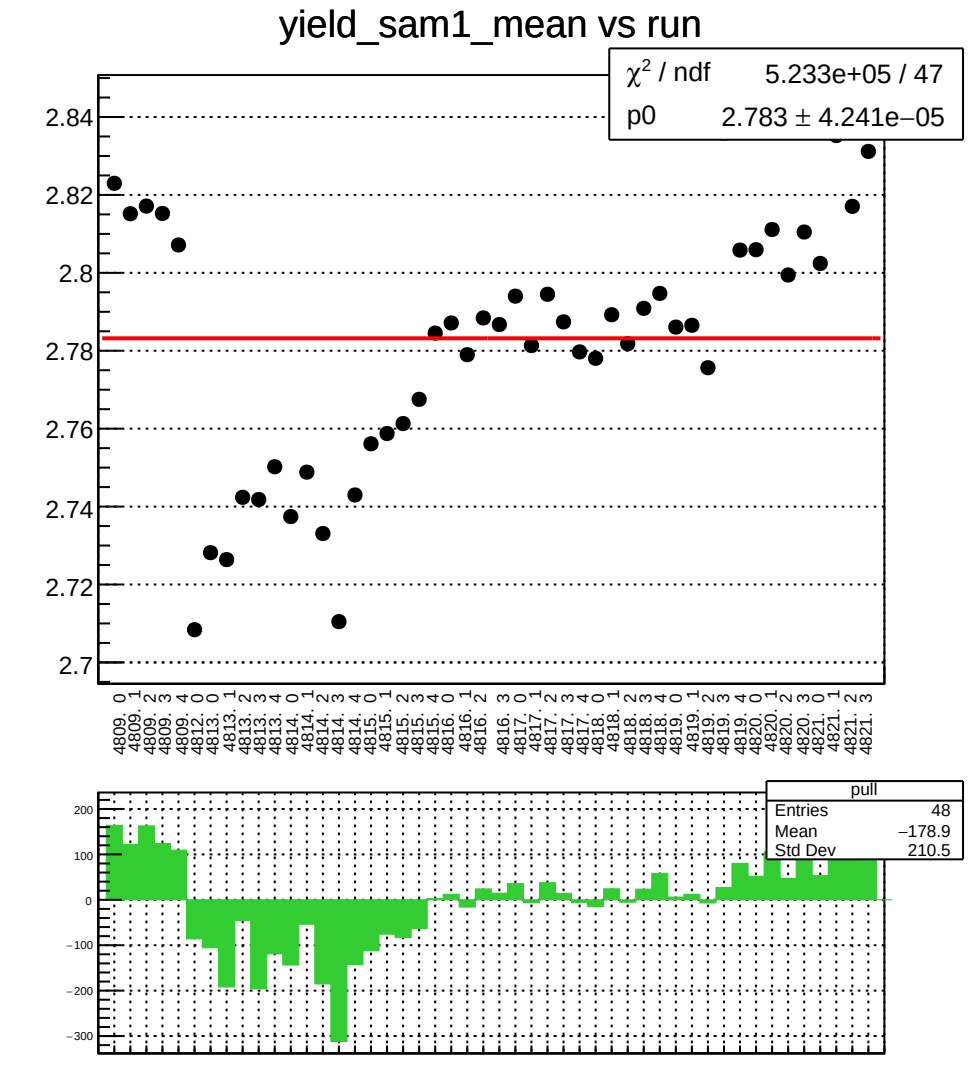

pull1D
Entries 48
Mean −0.02018
Std Dev 0.9079
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

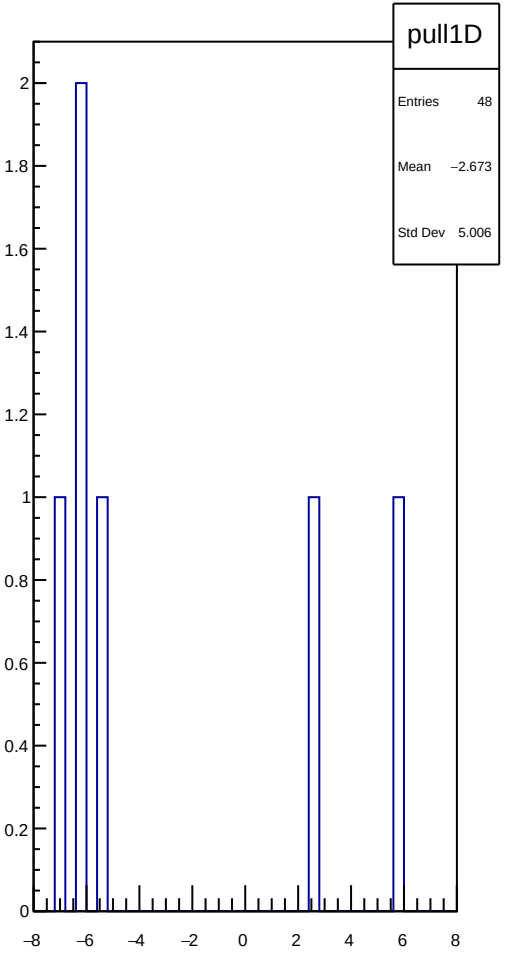

asym_sam7_rms vs run
χ² / ndf 2564 / 47
p0 1488 ± 1.51
1800
1700
1600
1500
1400
1300
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

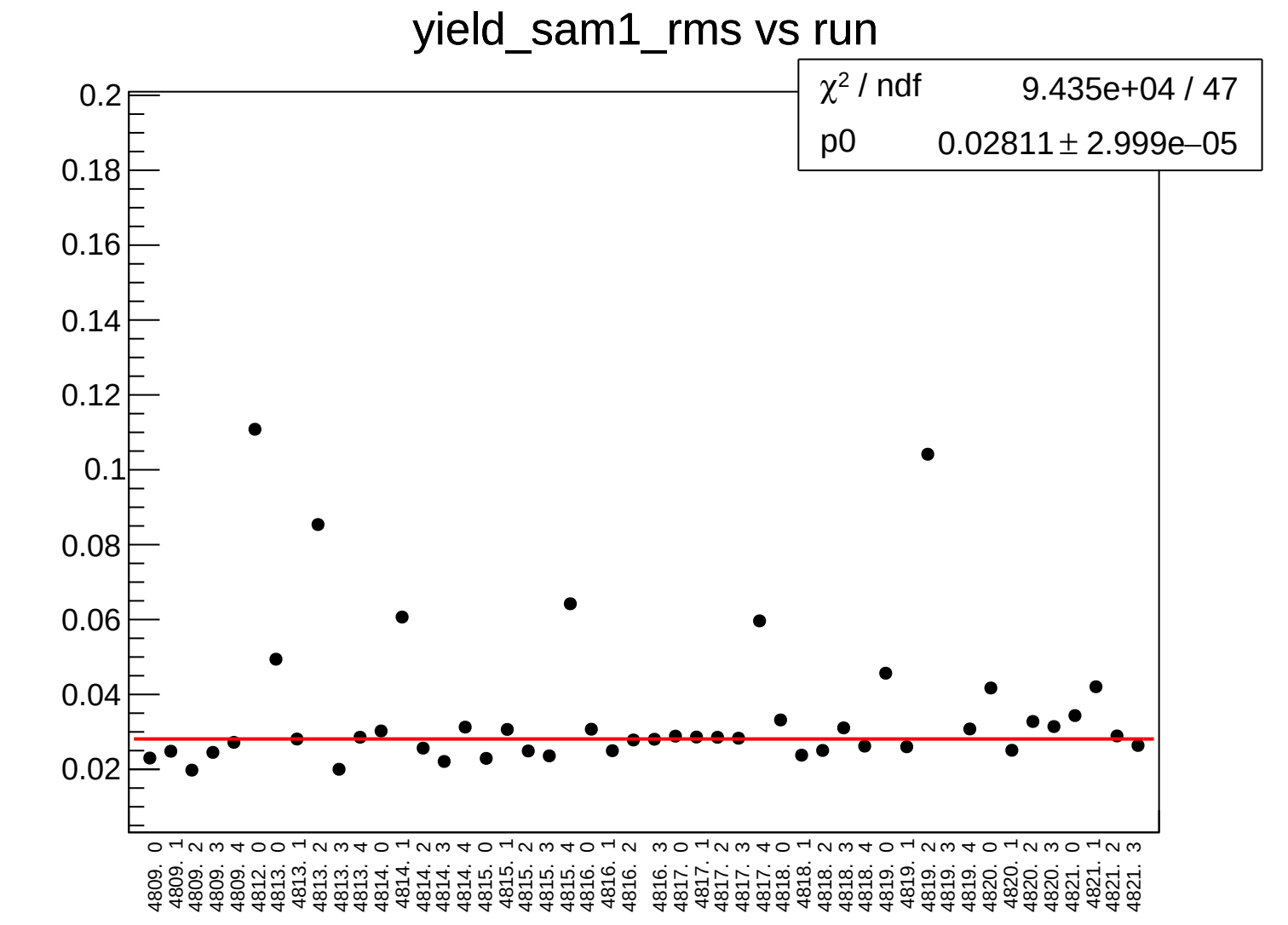

asym_sam8_mean vs run
χ² / ndf 33.38 / 47
p0 −6010 ± 1938
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 78.2
Std Dev 32.07
1.5
1
0.5
0
−0.5
−1
−1.5
−2

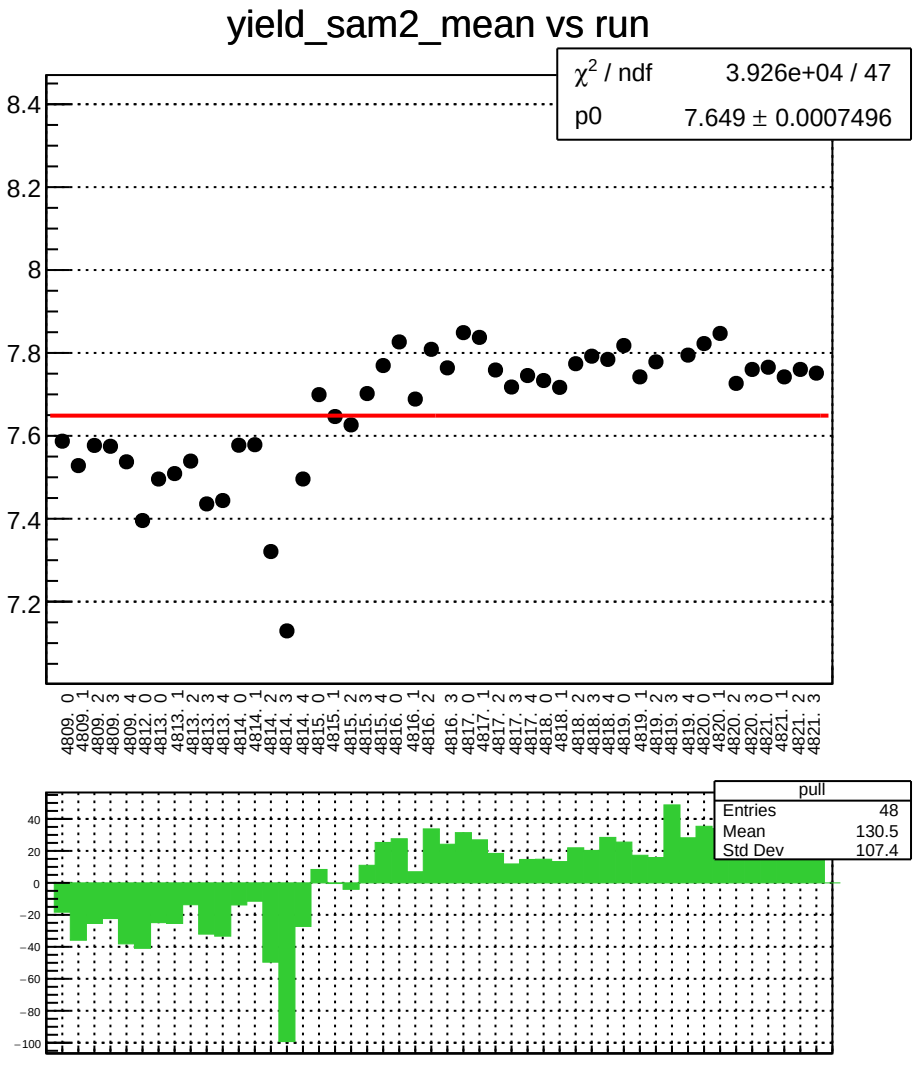

pull1D
Entries 48
Mean −0.01493
Std Dev 0.8338
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

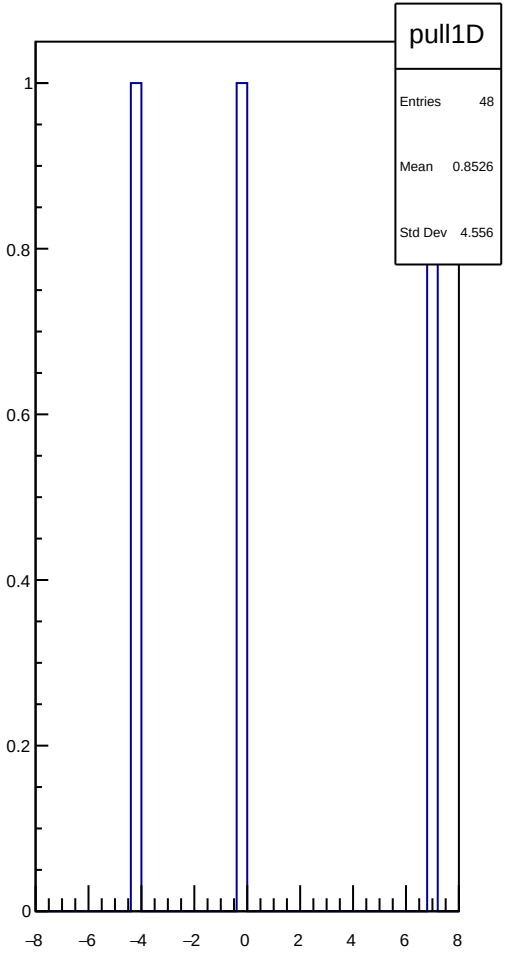

asym_sam8_rms vs run
χ² / ndf 1152 / 47
p0 1351 ± 1.371
1500
1450
1400
1350
1300
1250
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

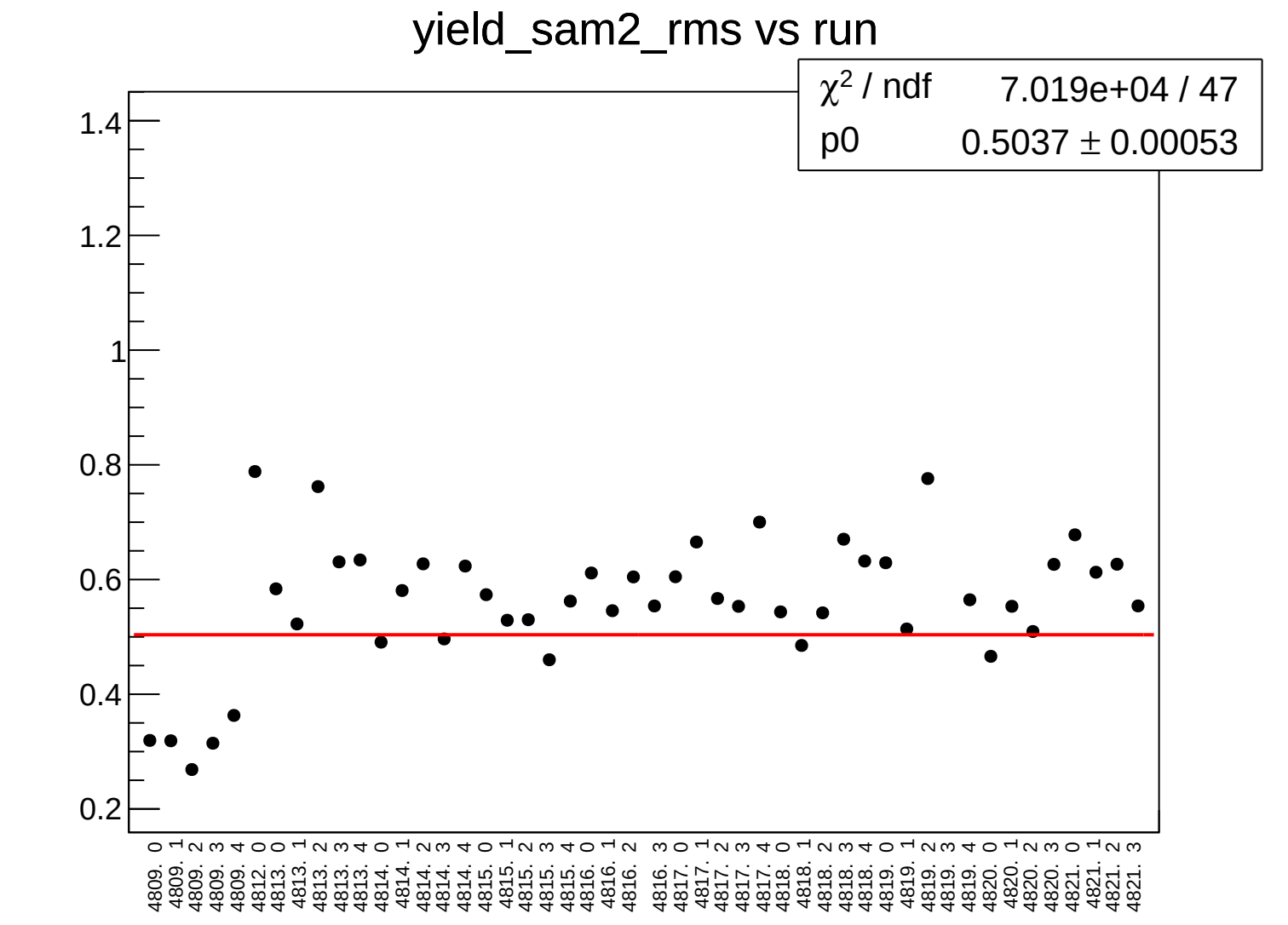

yield_sam1_mean vs run
χ² / ndf 5.233e+05 / 47
p0 2.783 ± 4.241e−05
2.84
2.82
2.8
2.78
2.76
2.74
2.72
2.7
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean −178.9
Std Dev 210.5
200
100
0
−100
−200
−300

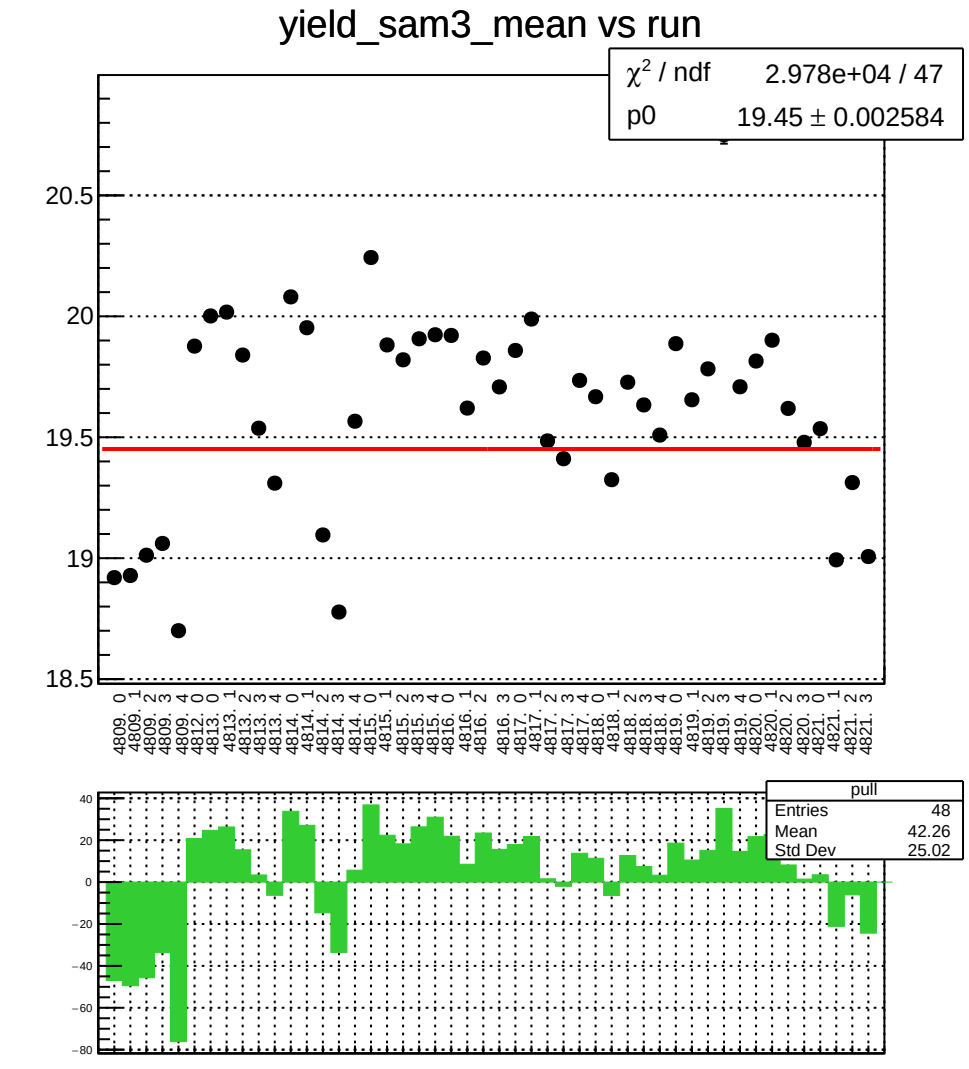

pull1D
Entries 48
Mean −2.673
Std Dev 5.006
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

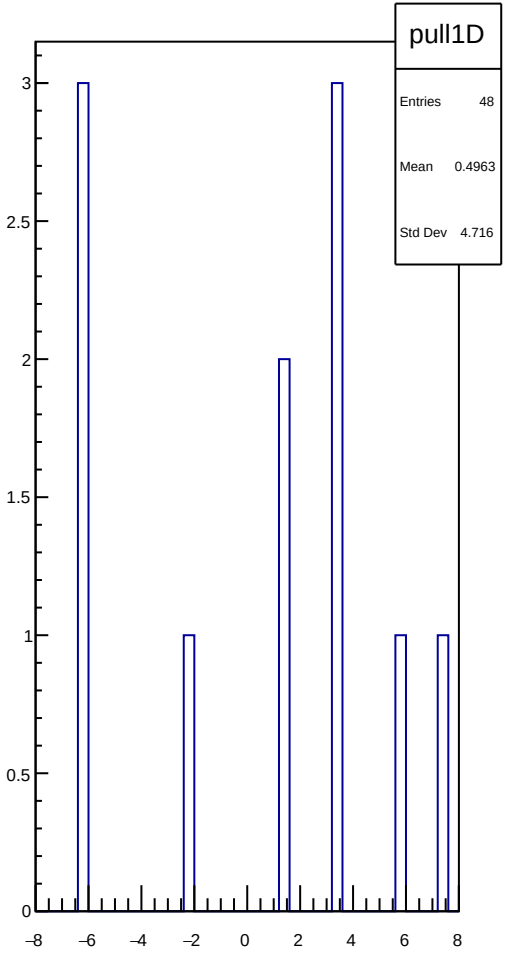

yield_sam1_rms vs run
χ² / ndf 9.435e+04 / 47
p0 0.02811 ± 2.999e–05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

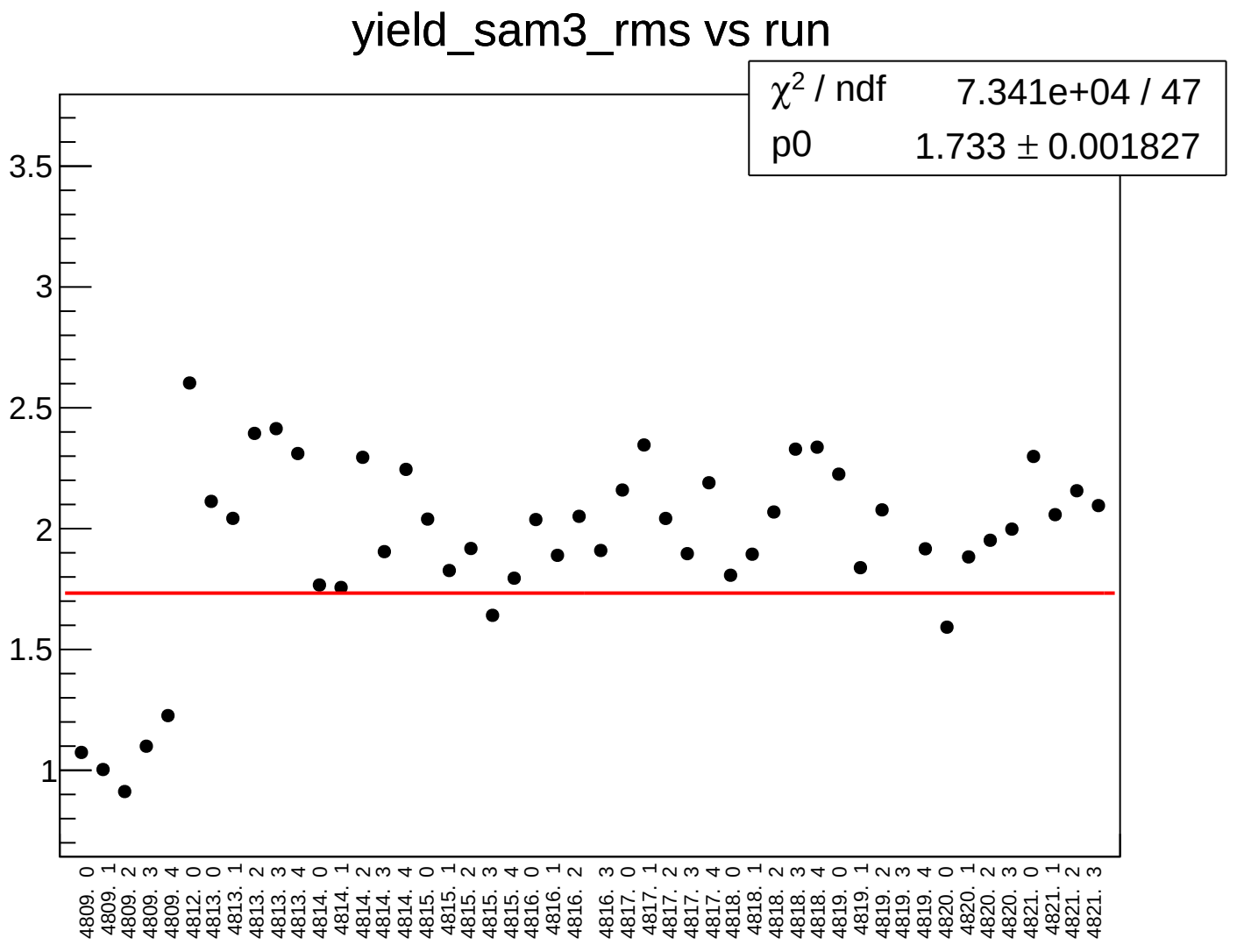

yield_sam2_mean vs run
χ² / ndf 3.926e+04 / 47
p0 7.649 ± 0.0007496
pull
Entries 48
Mean 130.5
Std Dev 107.4

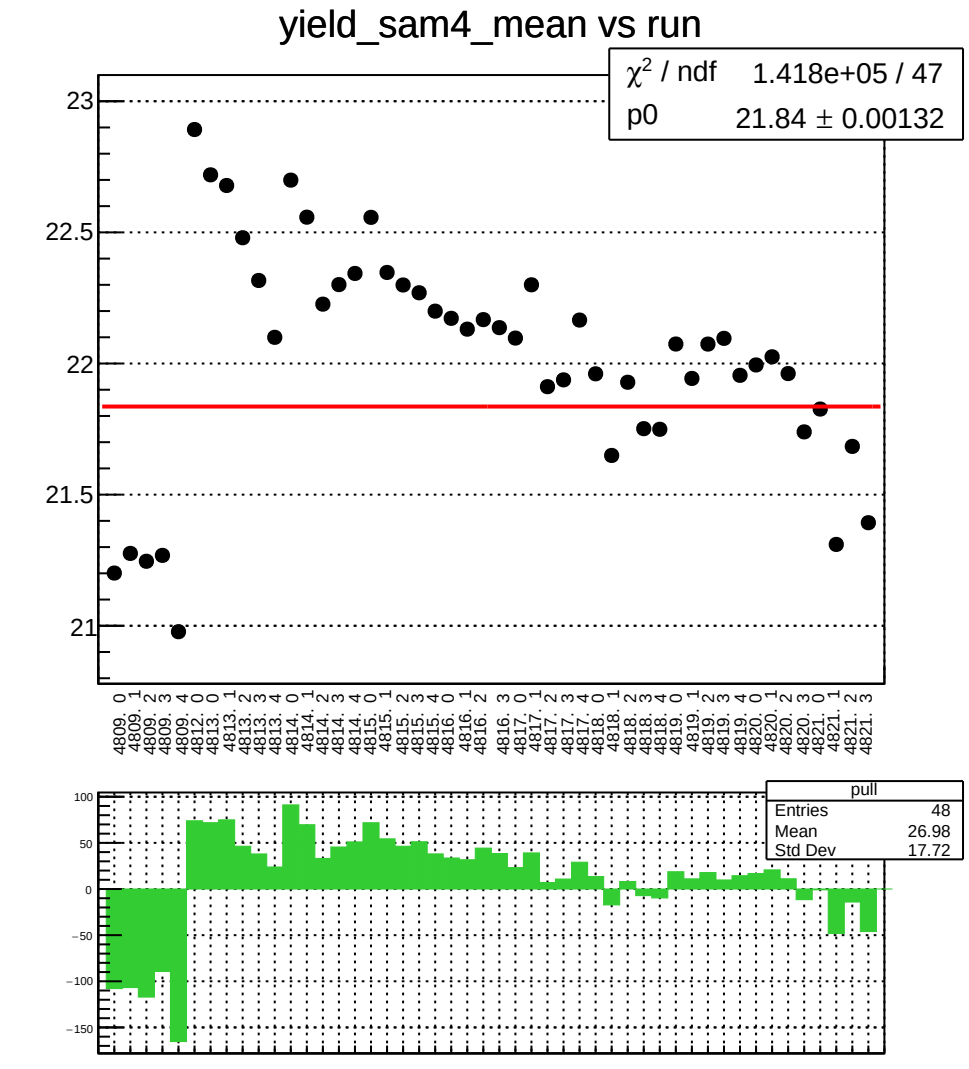

pull1D
Entries 48
Mean 0.8526
Std Dev 4.556

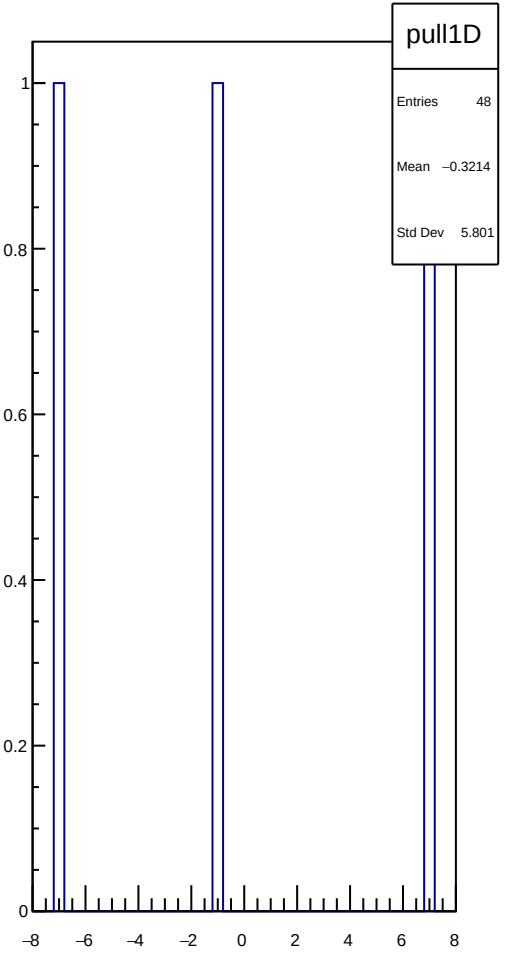

yield_sam2_rms vs run
χ² / ndf 7.019e+04 / 47
p0 0.5037 ± 0.00053
1.4
1.2
1
0.8
0.6
0.4
0.2
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

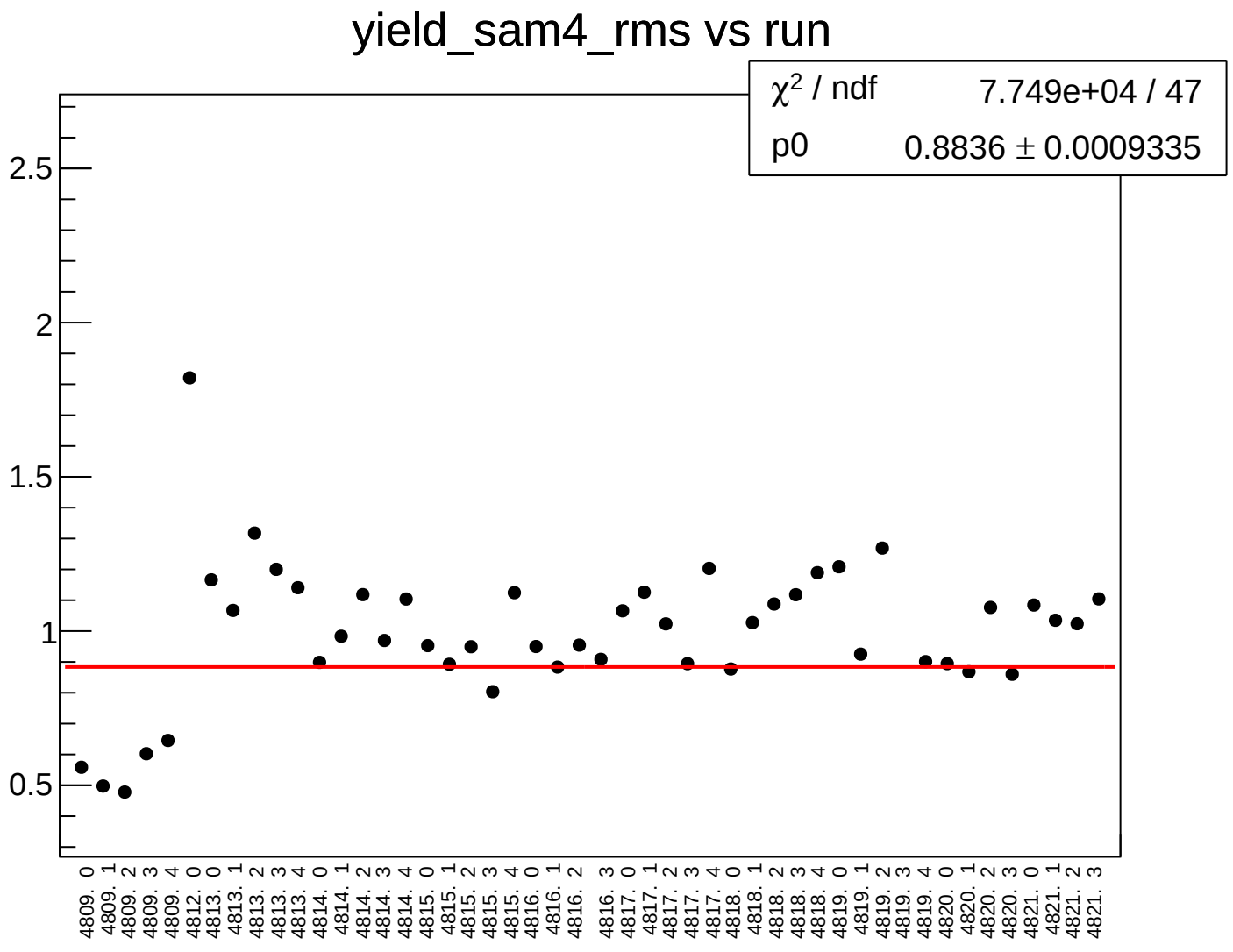

yield_sam3_mean vs run
χ² / ndf 2.978e+04 / 47
p0 19.45 ± 0.002584
20.5
20
19.5
19
18.5
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 42.26
Std Dev 25.02
40
20
0
−20
−40
−60
−80

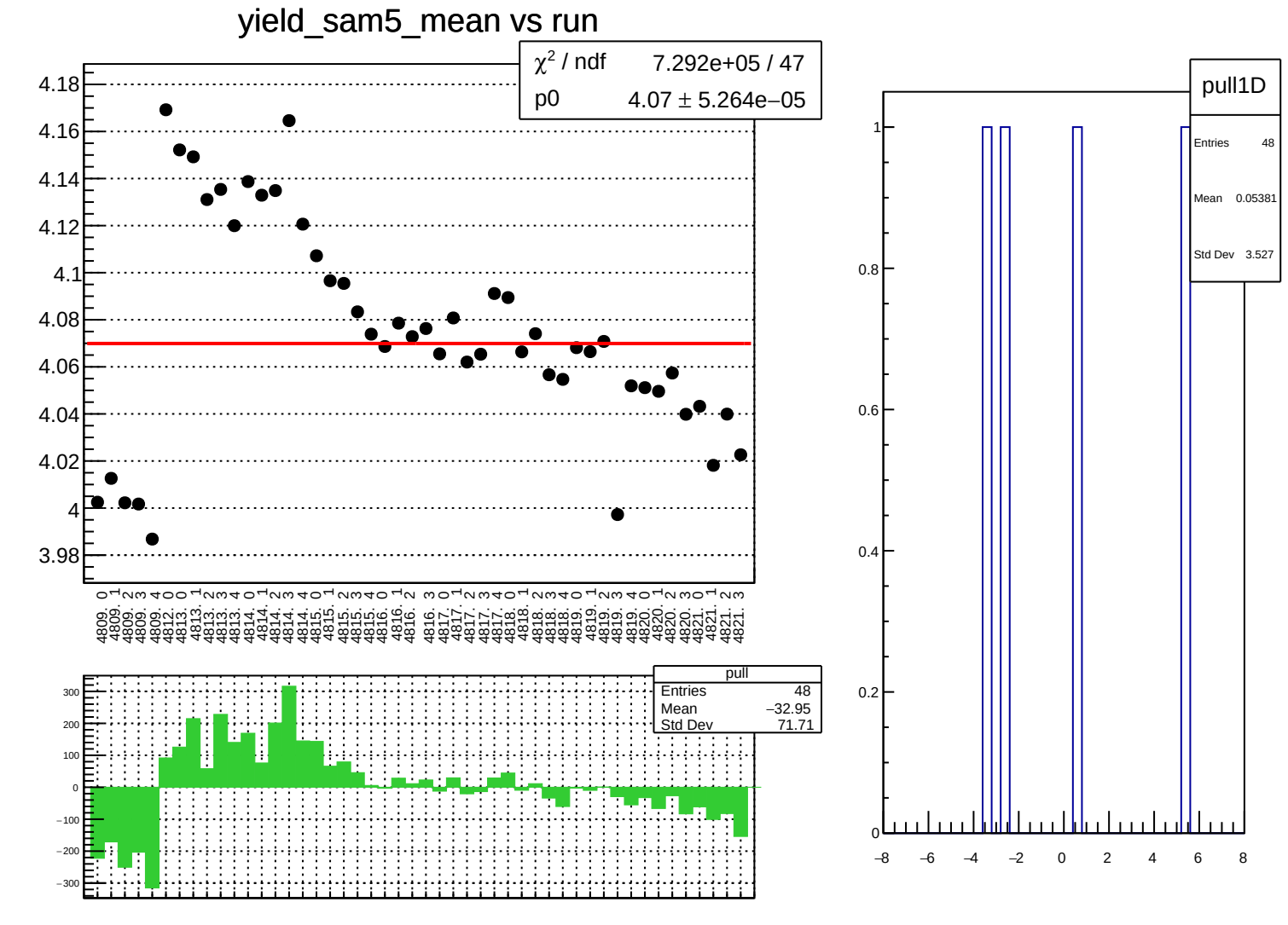

pull1D
Entries 48
Mean 0.4963
Std Dev 4.716
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

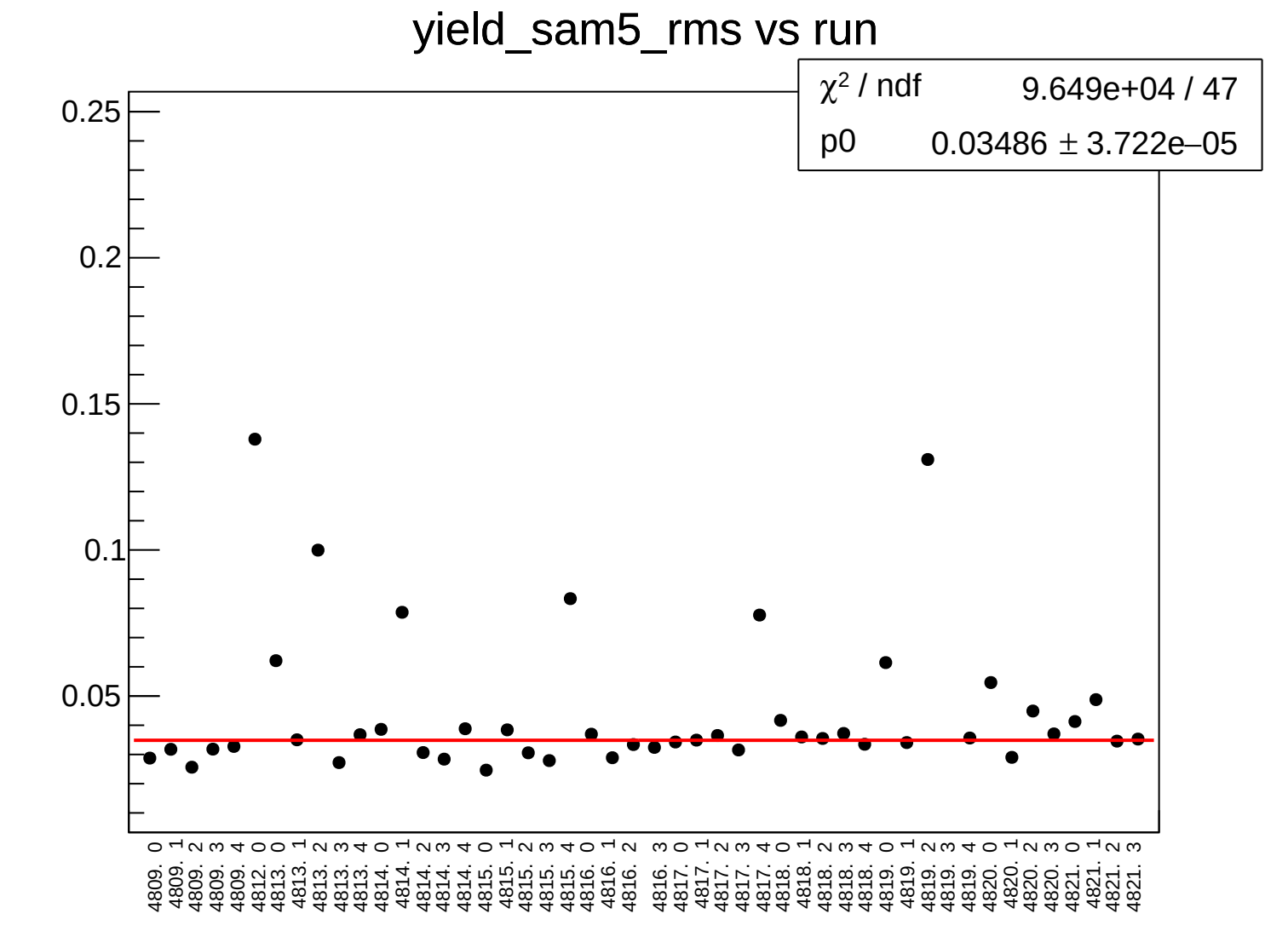

yield_sam3_rms vs run
χ² / ndf 7.341e+04 / 47
p0 1.733 ± 0.001827
3.5
3
2.5
2
1.5
1
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

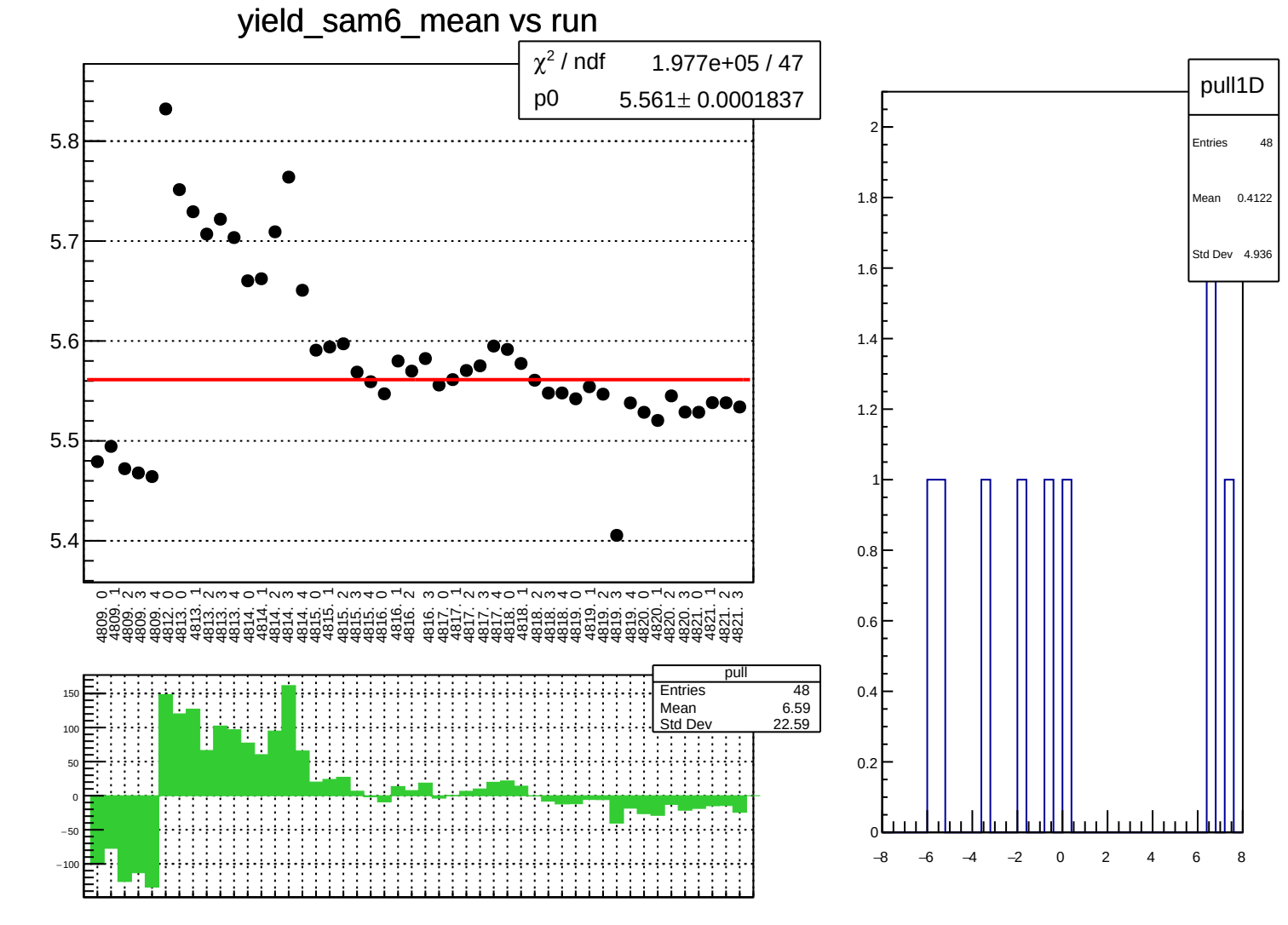

yield_sam4_mean vs run
χ² / ndf 1.418e+05 / 47
p0 21.84 ± 0.00132
23
22.5
22
21.5
21
pull
Entries 48
Mean 26.98
Std Dev 17.72
100
50
0
−50
−100
−150

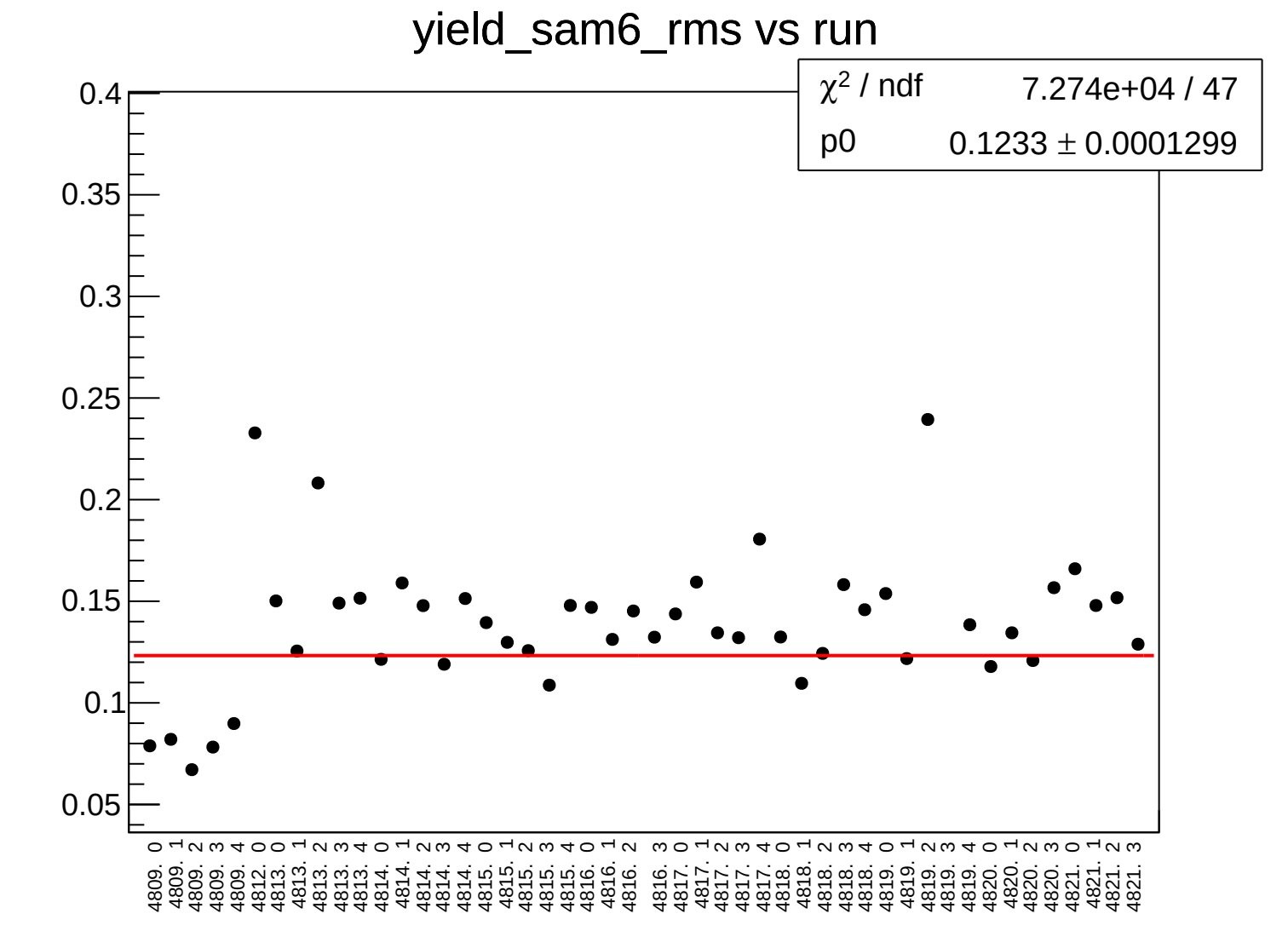

pull1D
Entries 48
Mean −0.3214
Std Dev 5.801
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

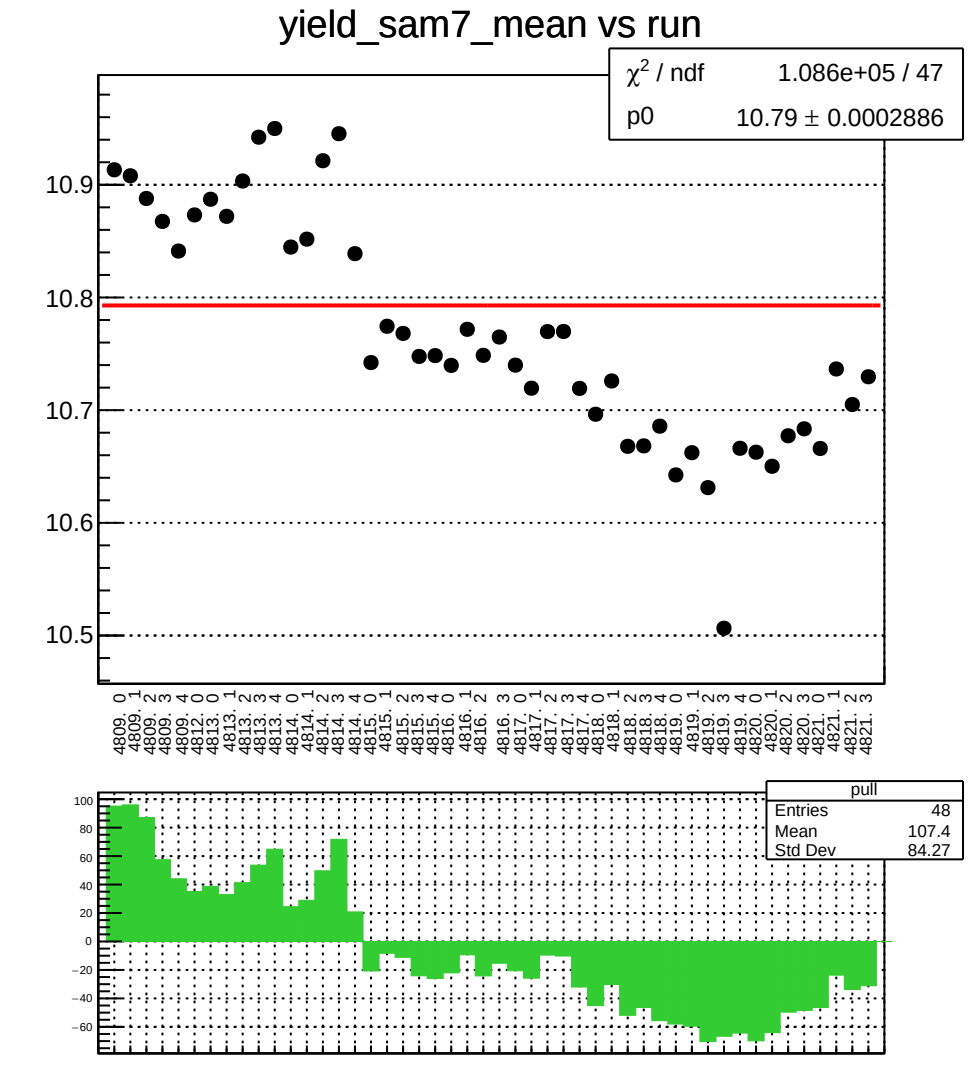

yield_sam4_rms vs run
χ² / ndf 7.749e+04 / 47
p0 0.8836 ± 0.0009335
2.5
2
1.5
1
0.5
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

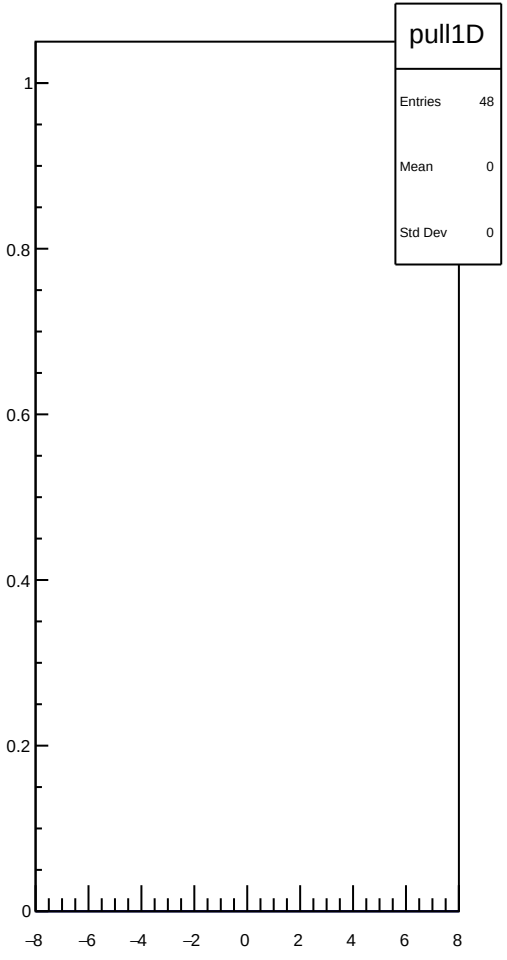

yield_sam5_mean vs run
χ² / ndf 7.292e+05 / 47
p0 4.07 ± 5.264e−05
pull
Entries 48
Mean −32.95
Std Dev 71.71
pull1D
Entries 48
Mean 0.05381
Std Dev 3.527

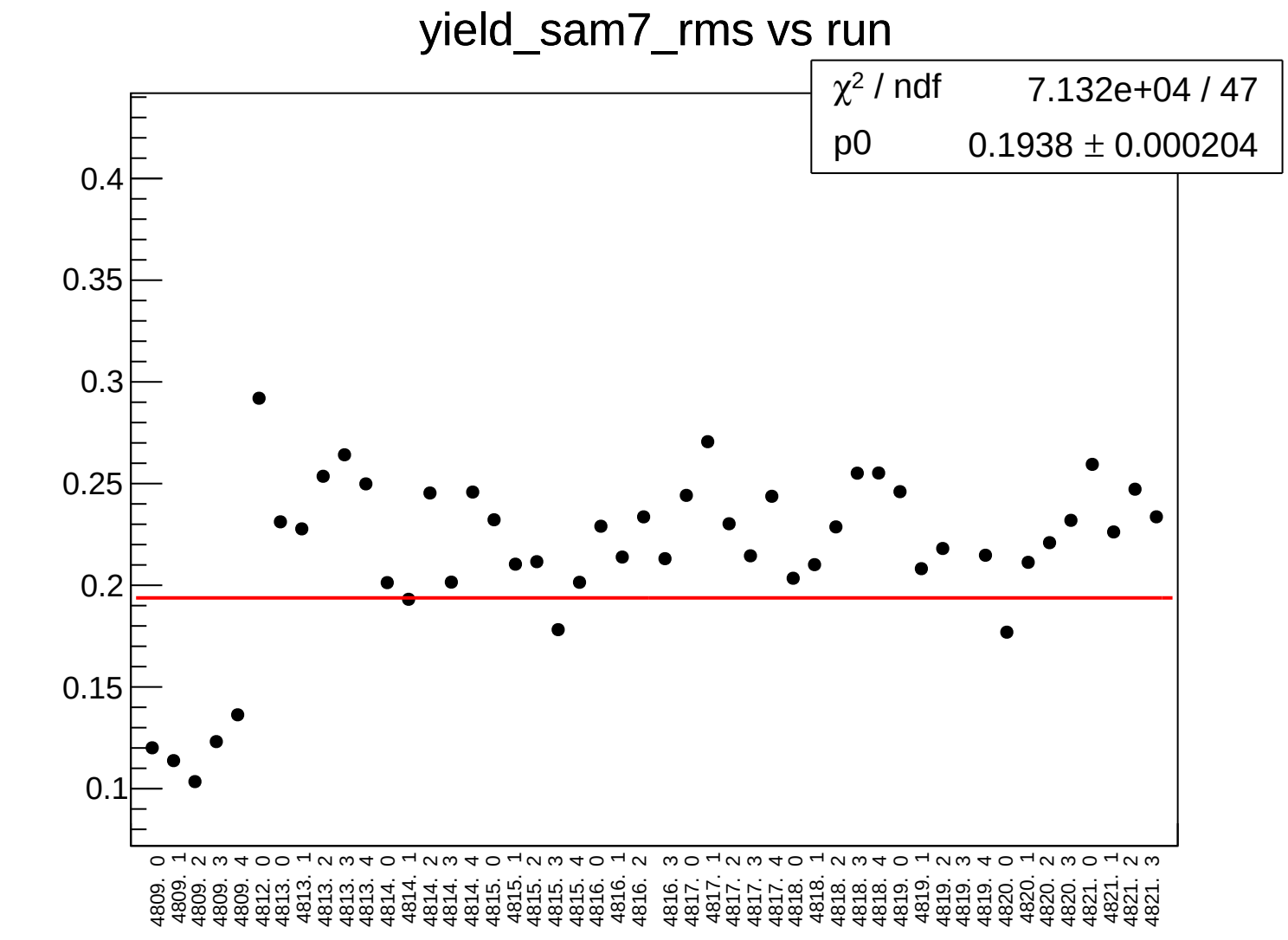

yield_sam5_rms vs run
χ² / ndf 9.649e+04 / 47
p0 0.03486 ± 3.722e–05
0.25
0.2
0.15
0.1
0.05
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

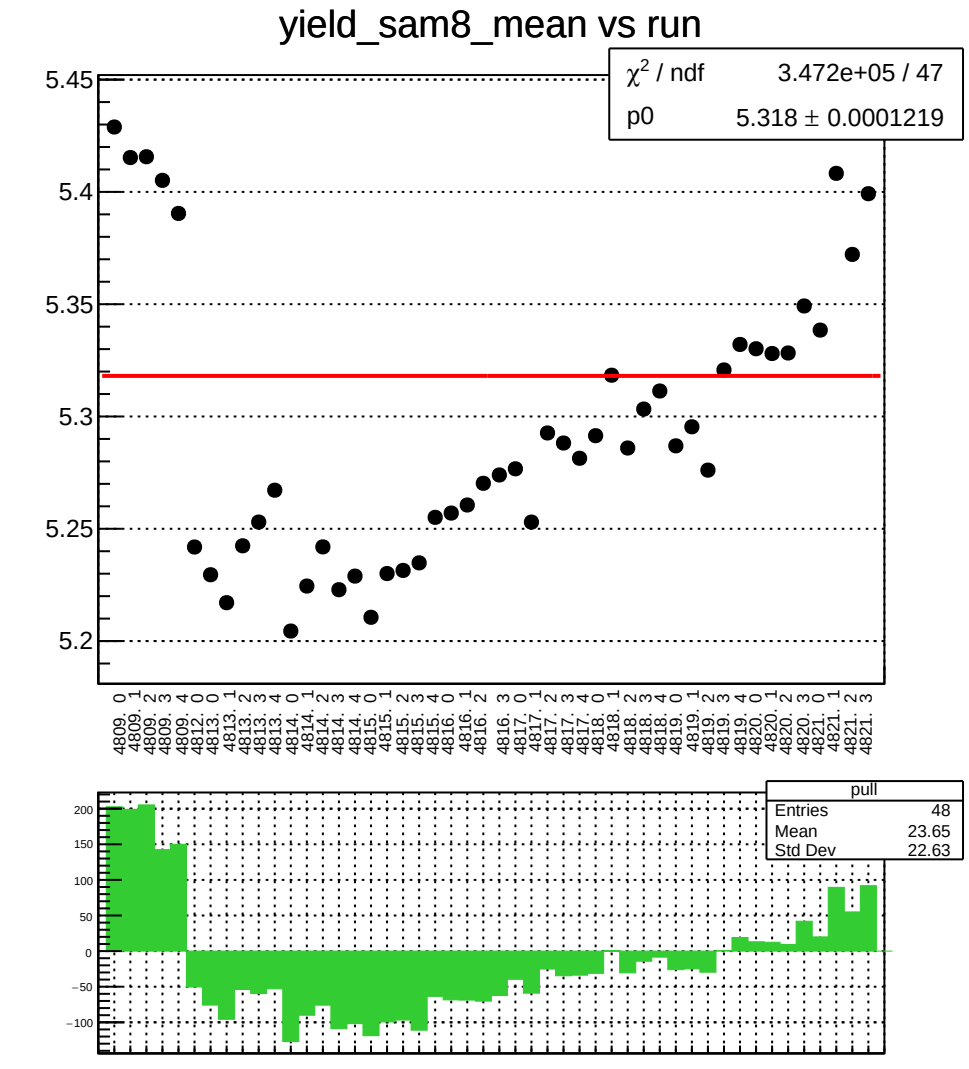

yield_sam6_mean vs run
χ² / ndf 1.977e+05 / 47
p0 5.561± 0.0001837
5.8
5.7
5.6
5.5
5.4
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 6.59
Std Dev 22.59
150
100
50
0
−50
−100
pull1D
Entries 48
Mean 0.4122
Std Dev 4.936
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

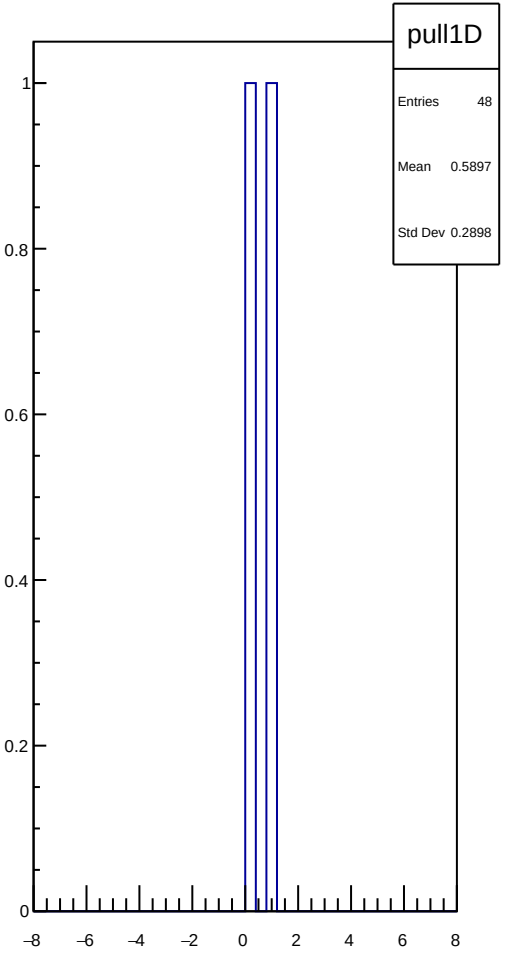

yield_sam6_rms vs run
χ² / ndf 7.274e+04 / 47
p0 0.1233 ± 0.0001299
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

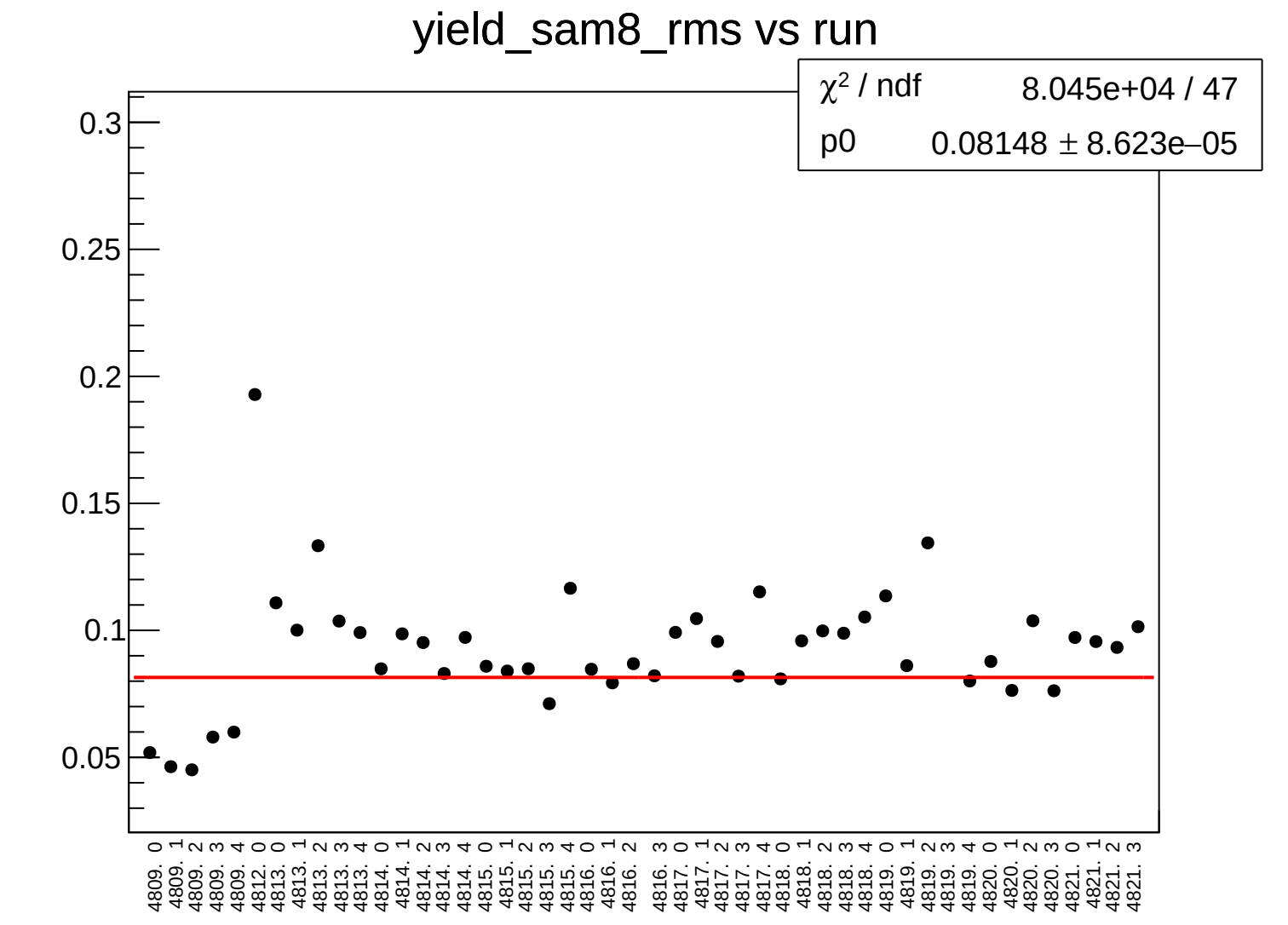

yield_sam7_mean vs run
χ² / ndf 1.086e+05 / 47
p0 10.79 ± 0.0002886
10.9
10.8
10.7
10.6
10.5
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 107.4
Std Dev 84.27
100
80
60
40
20
0
−20
−40
−60

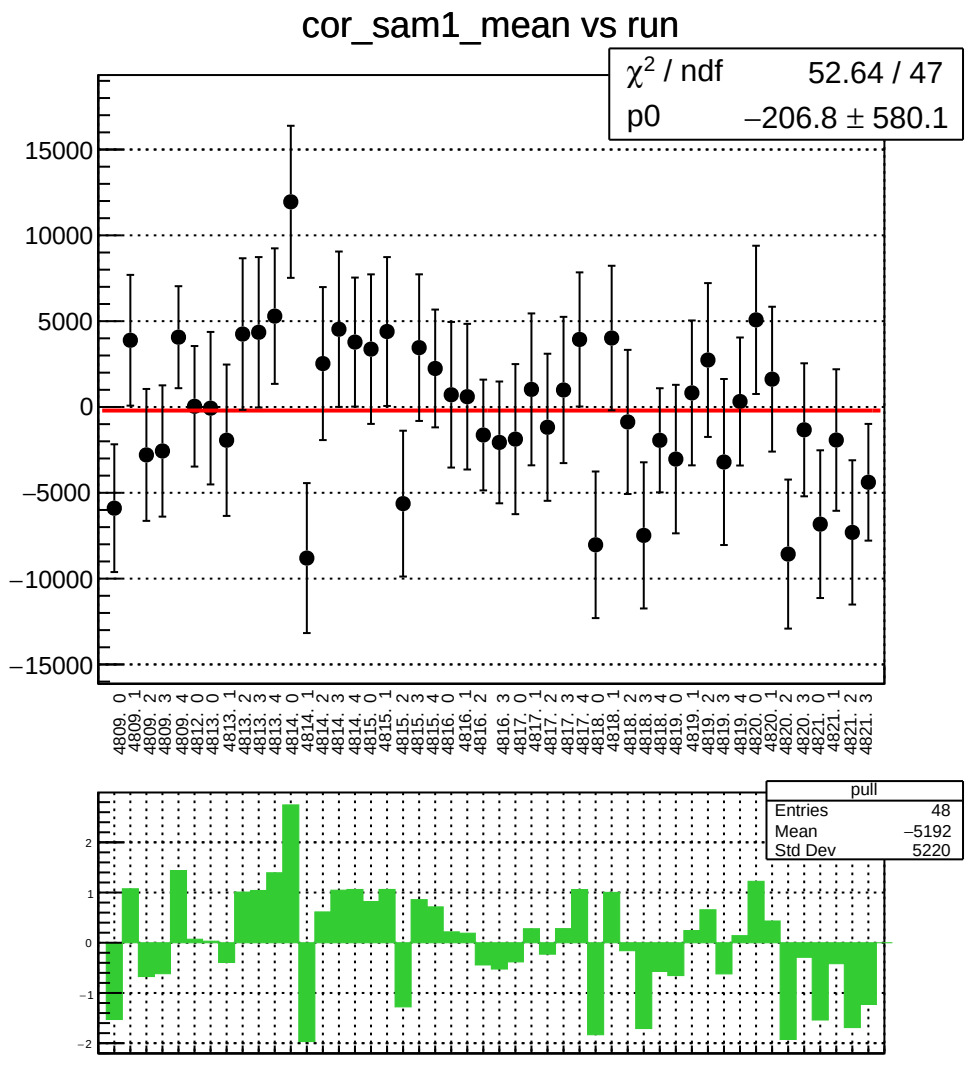

pull1D
Entries 48
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

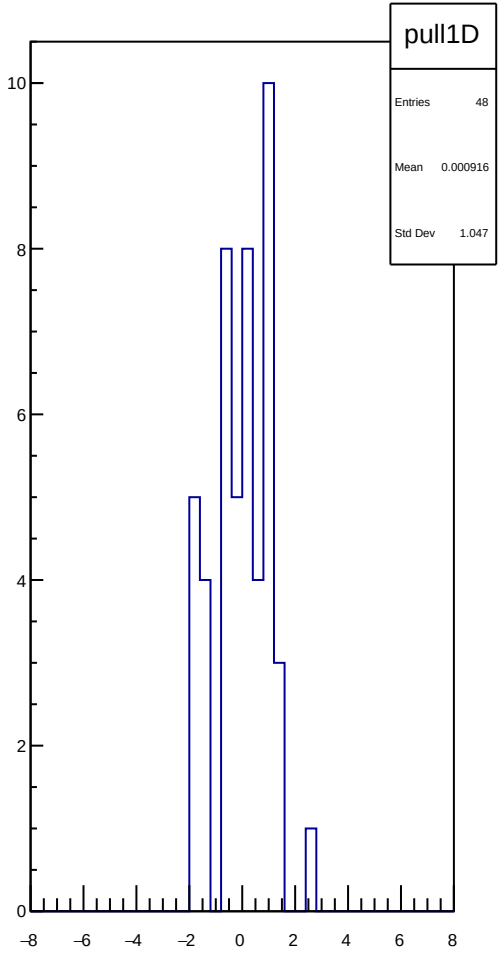

yield_sam7_rms vs run
χ² / ndf 7.132e+04 / 47
p0 0.1938 ± 0.000204
0.4
0.35
0.3
0.25
0.2
0.15
0.1
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

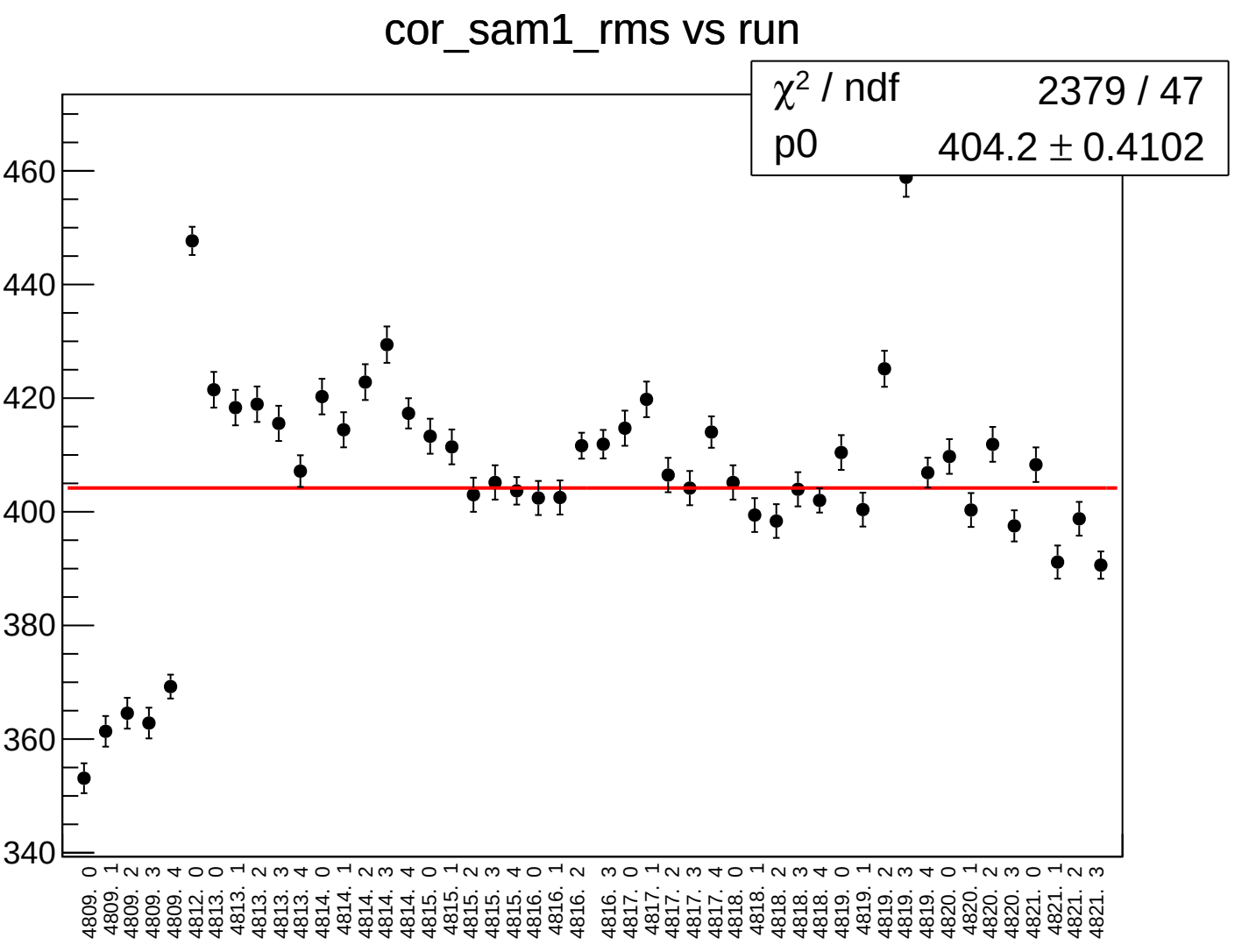

yield_sam8_mean vs run
χ² / ndf 3.472e+05 / 47
p0 5.318 ± 0.0001219
5.45
5.4
5.35
5.3
5.25
5.2
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 23.65
Std Dev 22.63
200
150
100
50
0
−50
−100

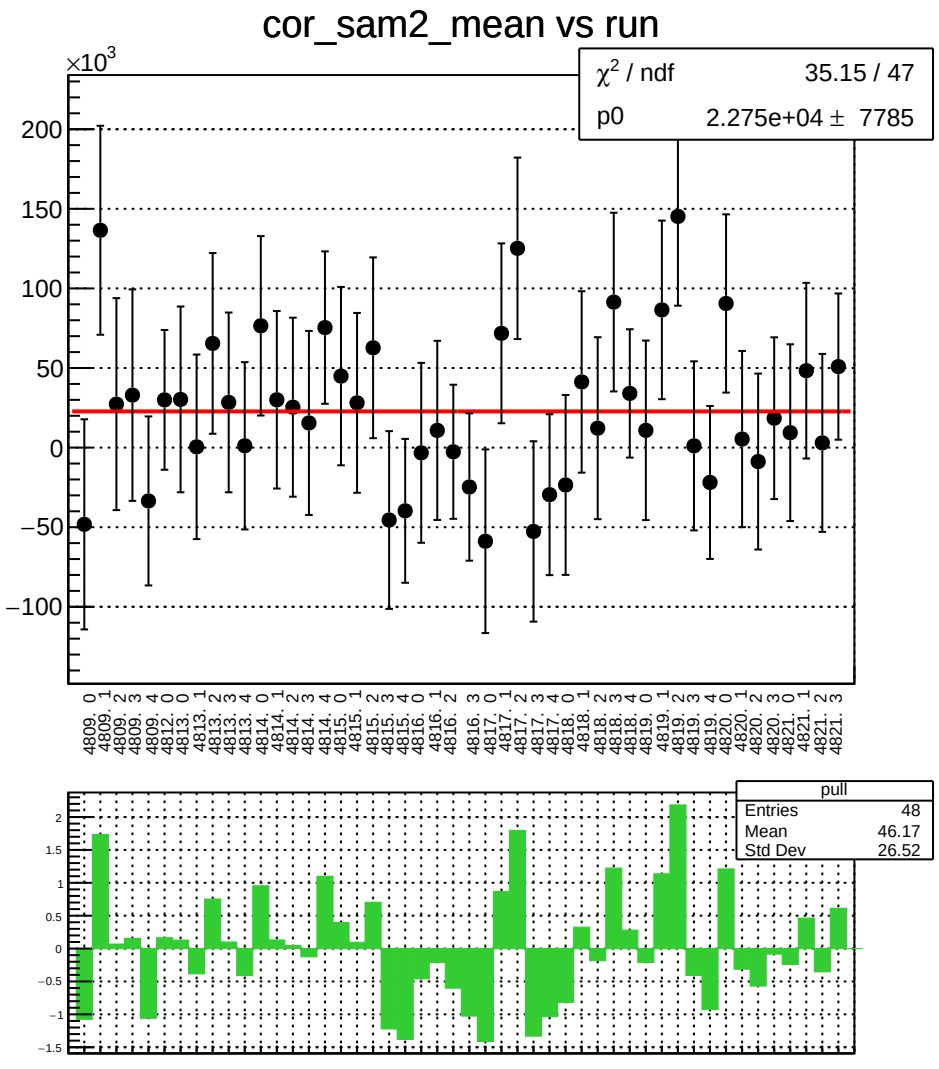

pull1D
Entries 48
Mean 0.5897
Std Dev 0.2898
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

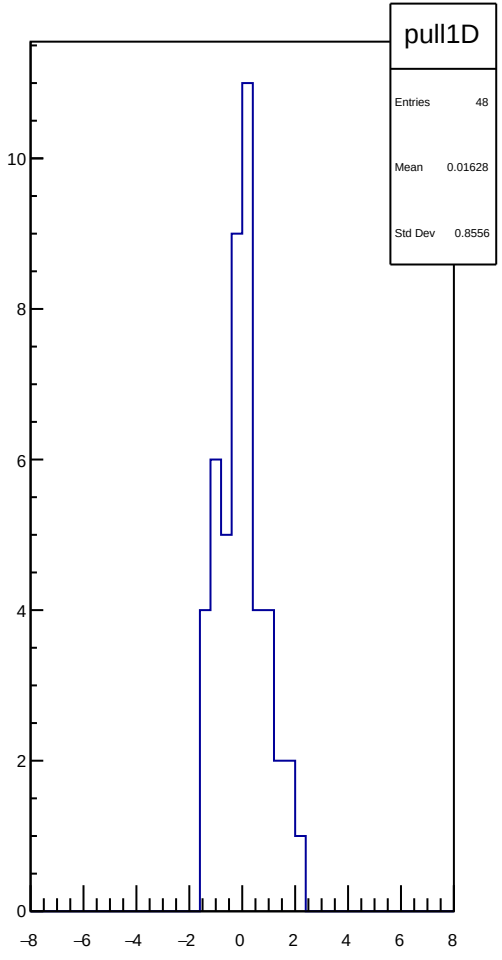

yield_sam8_rms vs run
χ² / ndf 8.045e+04 / 47
p0 0.08148 ± 8.623e–05
0.3
0.25
0.2
0.15
0.1
0.05
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

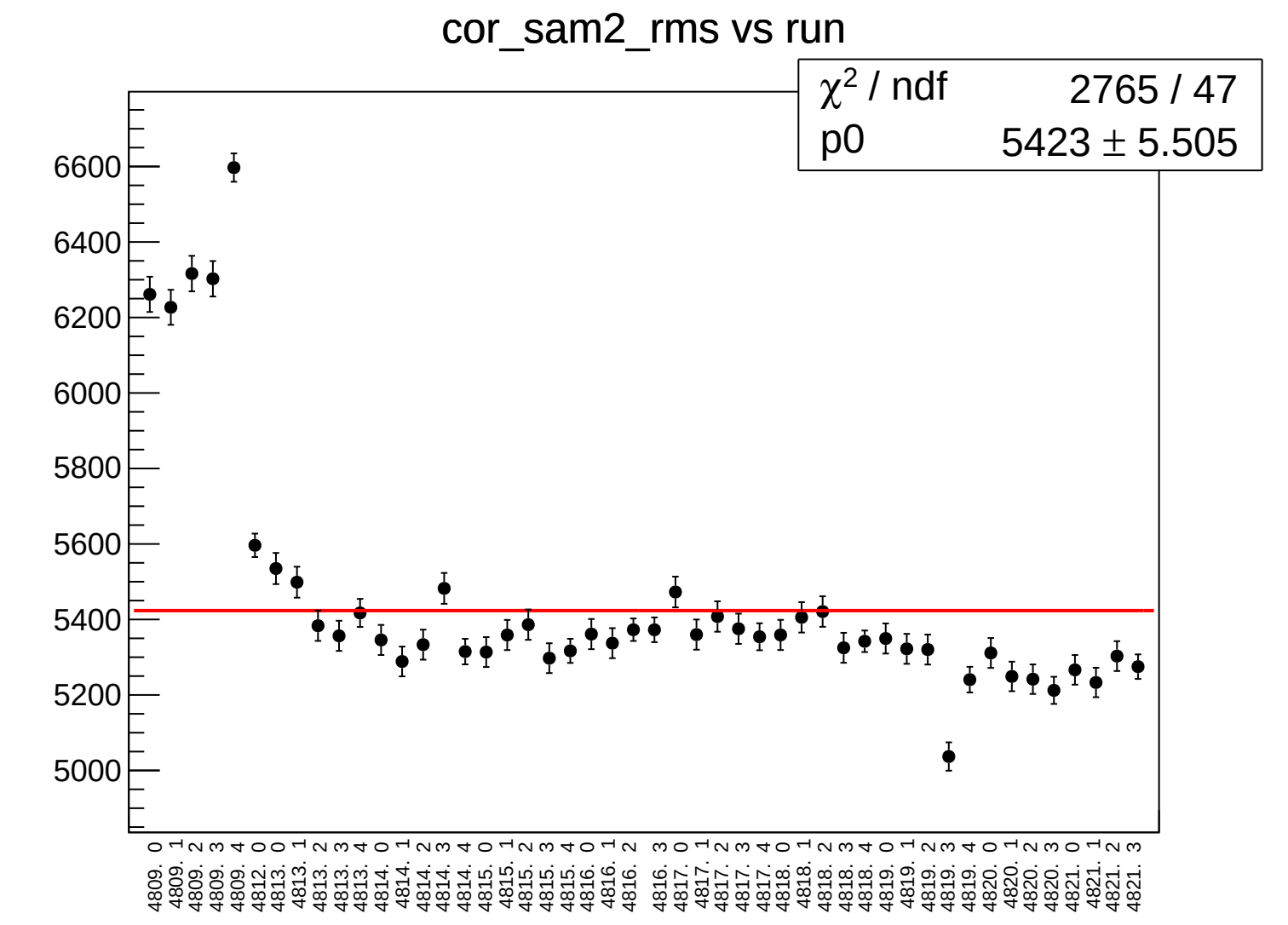

cor_sam1_mean vs run
χ² / ndf 52.64 / 47
p0 −206.8 ± 580.1
15000
10000
5000
0
−5000
−10000
−15000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean −5192
Std Dev 5220
2
1
0
−1
−2

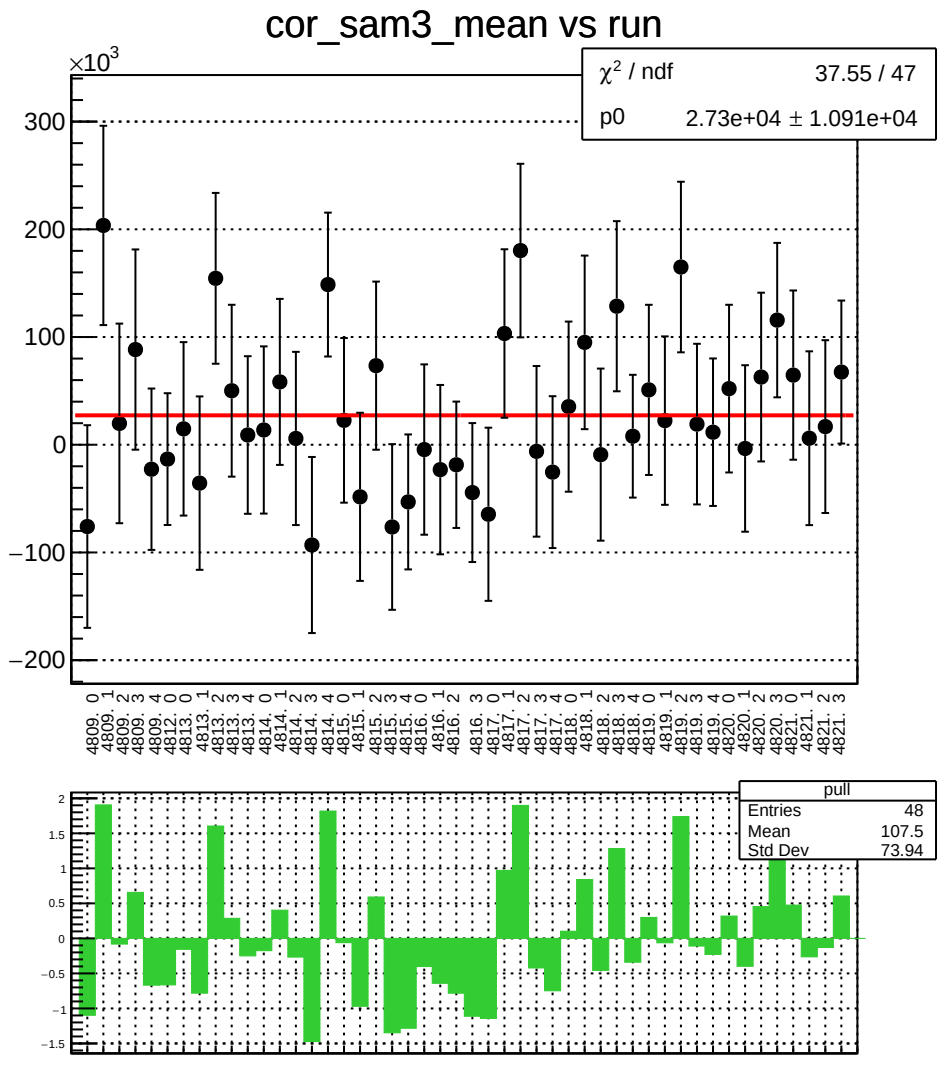

pull1D
Entries 48
Mean 0.000916
Std Dev 1.047
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

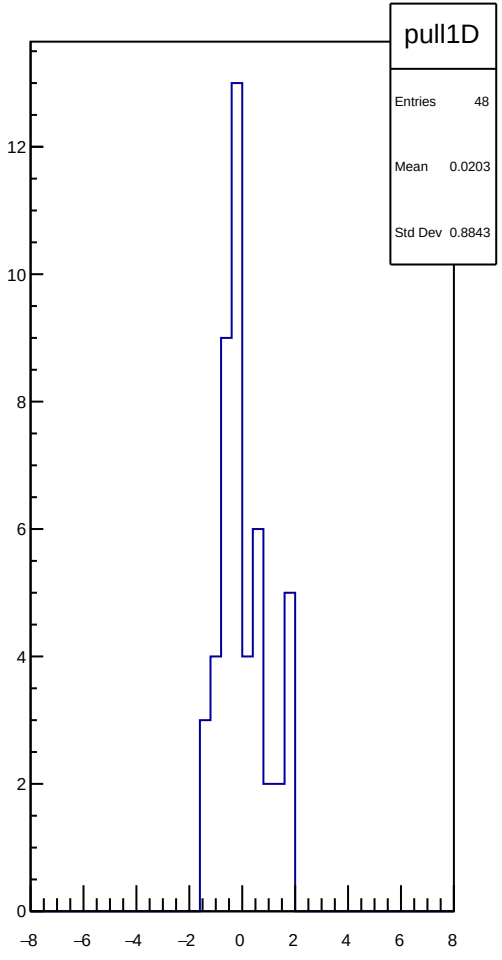

cor_sam1_rms vs run
χ² / ndf 2379 / 47
p0 404.2 ± 0.4102
460
440
420
400
380
360
340
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

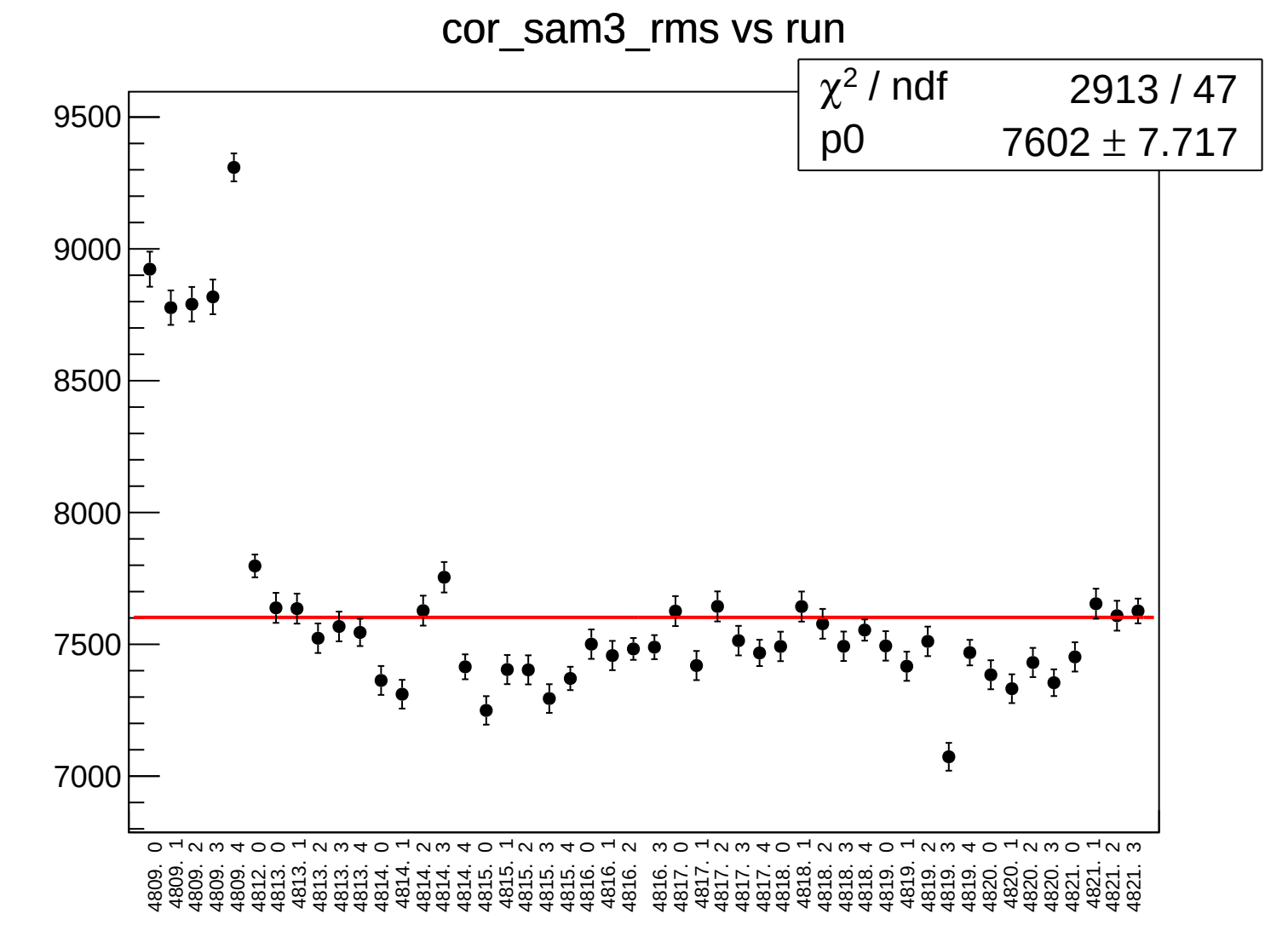

cor_sam2_mean vs run
×10^3
χ² / ndf 35.15 / 47
p0 2.275e+04 ± 7785
200
150
100
50
0
−50
−100
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 46.17
Std Dev 26.52
2
1.5
1
0.5
0
−0.5
−1
−1.5

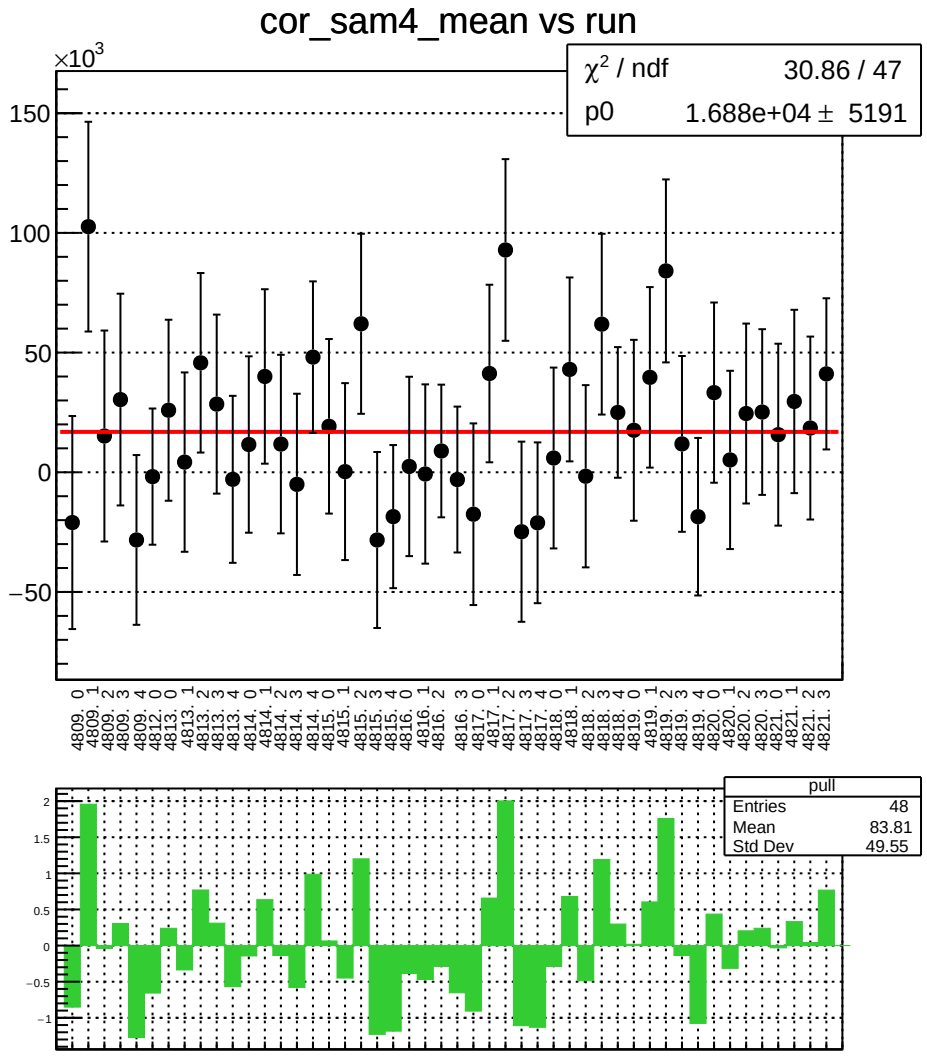

pull1D
Entries 48
Mean 0.01628
Std Dev 0.8556
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

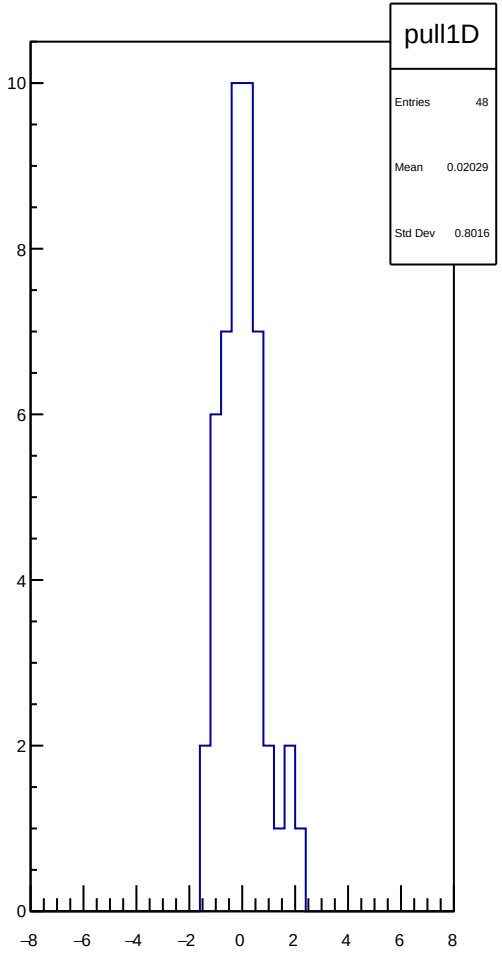

cor_sam2_rms vs run
χ² / ndf 2765 / 47
p0 5423 ± 5.505
6600
6400
6200
6000
5800
5600
5400
5200
5000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

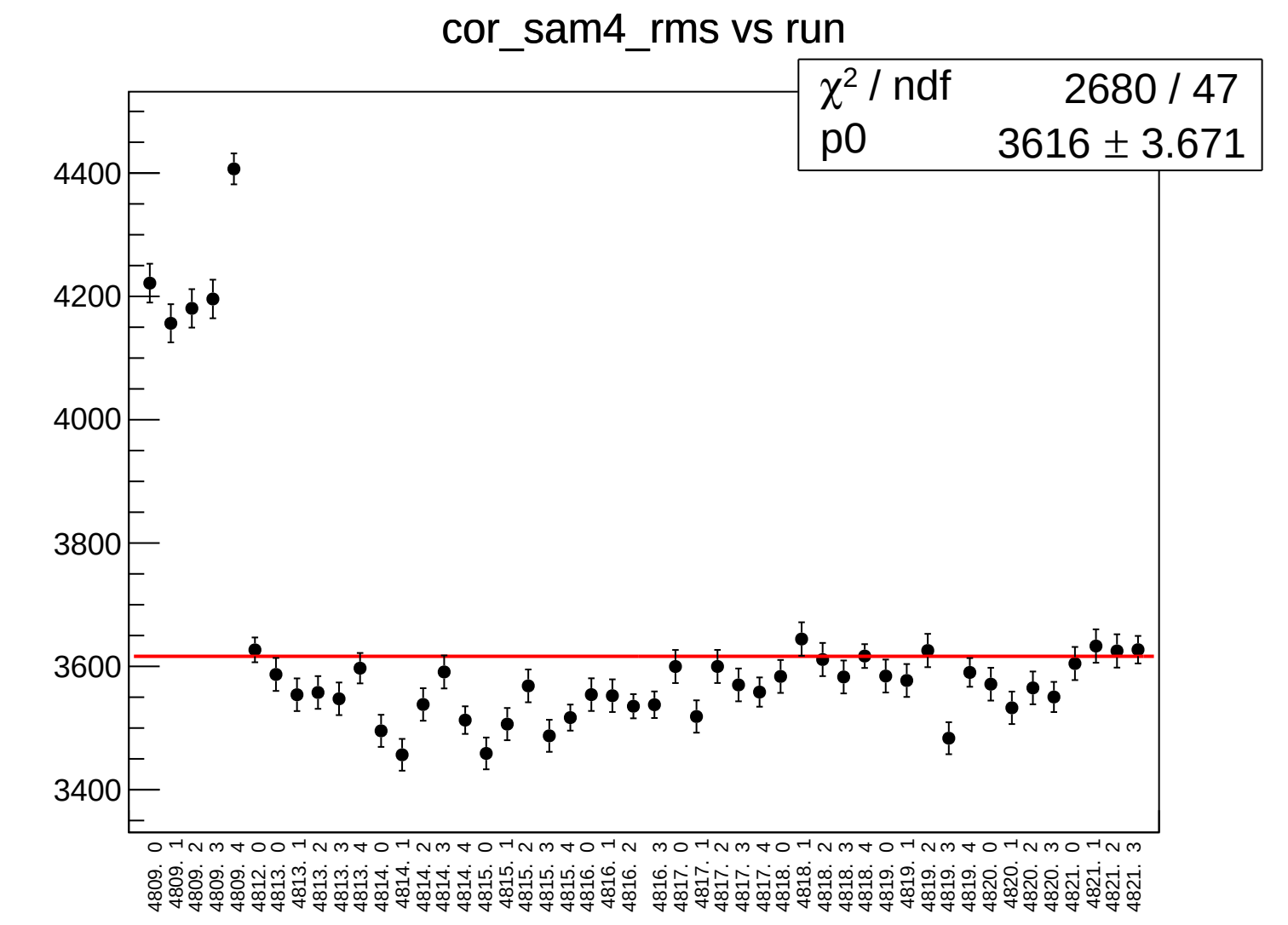

cor_sam3_mean vs run
×10^3
χ² / ndf 37.55 / 47
p0 2.73e+04 ± 1.091e+04
300
200
100
0
−100
−200
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 107.5
Std Dev 73.94
2
1.5
1
0.5
0
−0.5
−1
−1.5

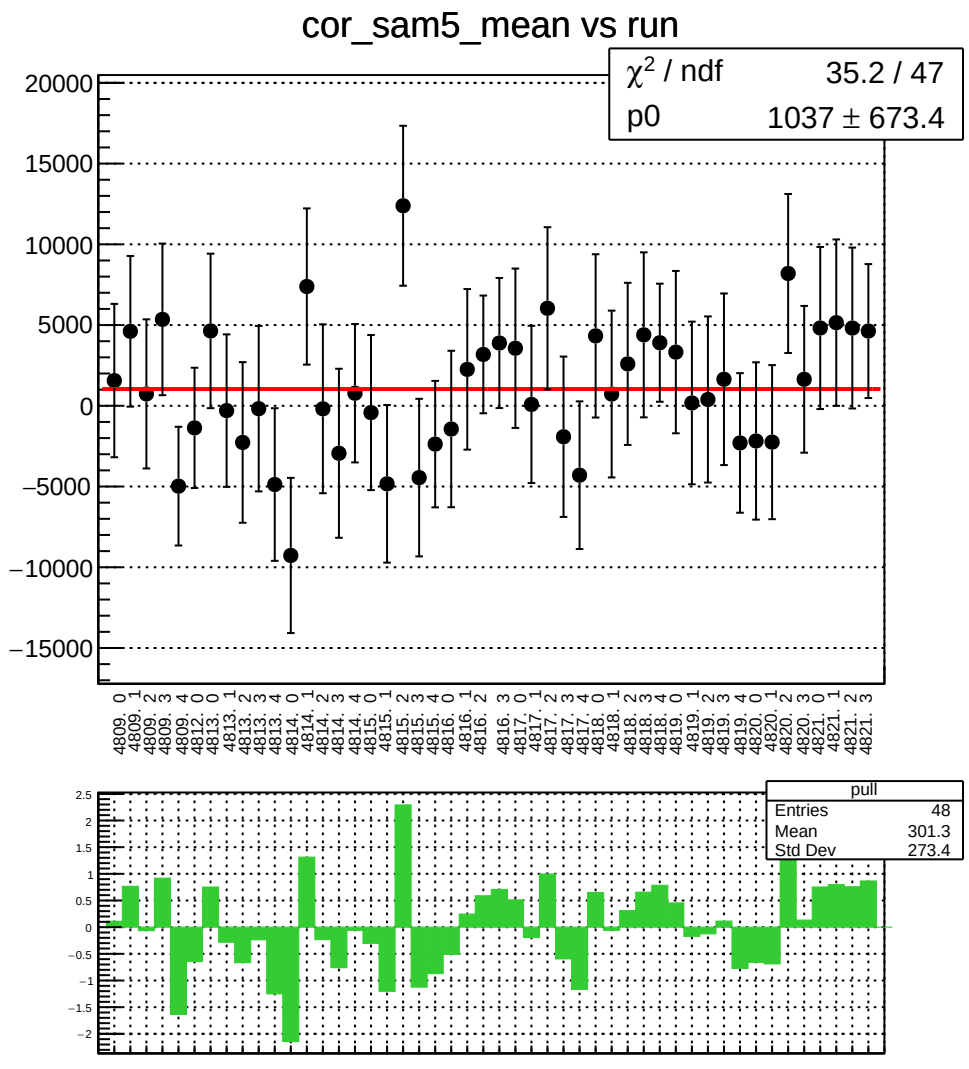

pull1D
Entries 48
Mean 0.0203
Std Dev 0.8843
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

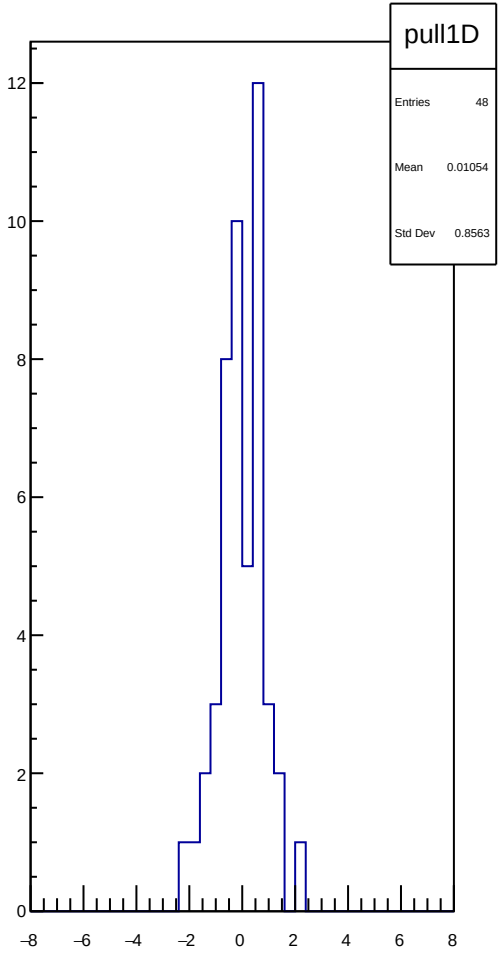

cor_sam3_rms vs run
χ² / ndf 2913 / 47
p0 7602 ± 7.717
9500
9000
8500
8000
7500
7000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

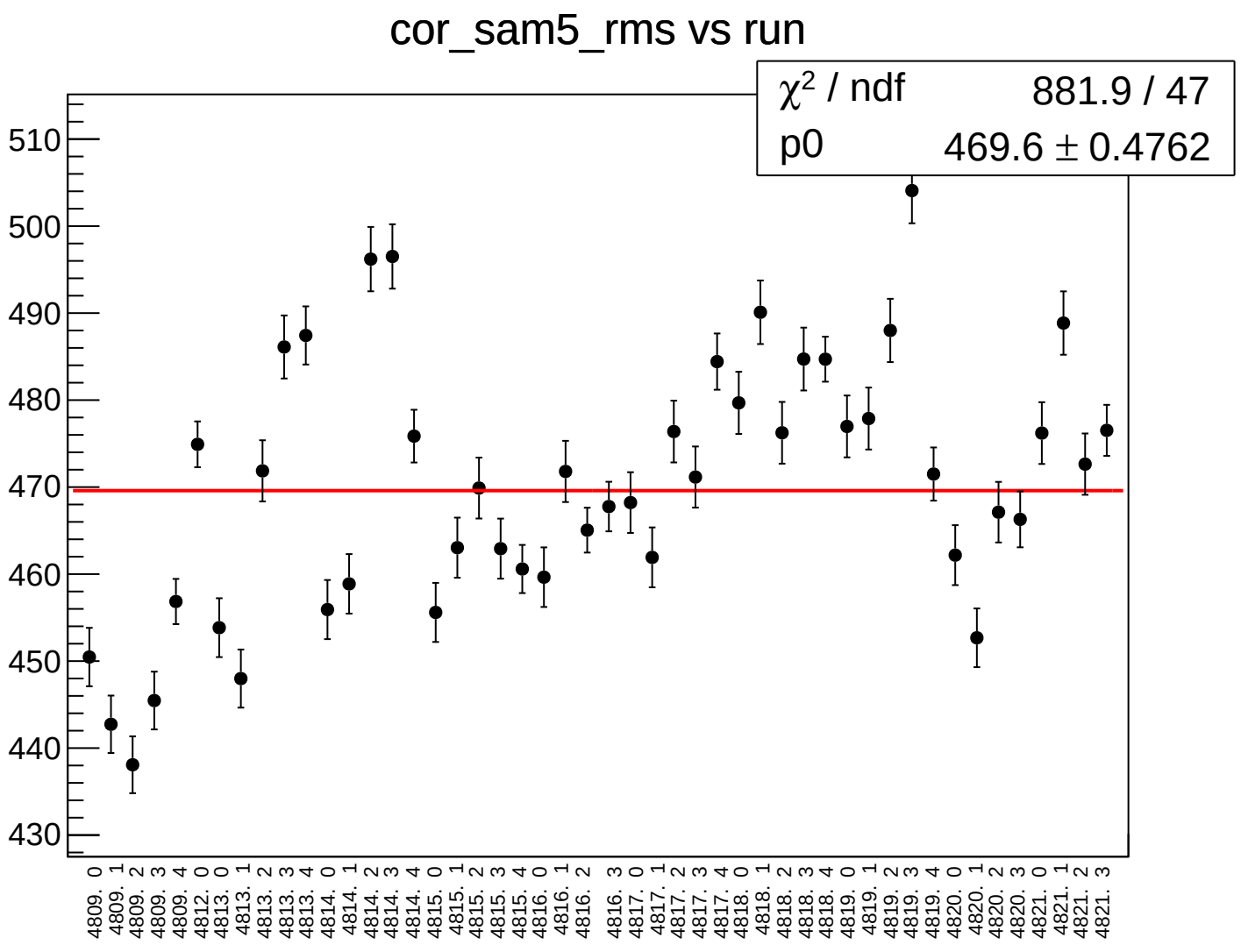

cor_sam4_mean vs run
×10^3
χ² / ndf 30.86 / 47
p0 1.688e+04 ± 5191
150
100
50
0
−50
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 83.81
Std Dev 49.55
2
1.5
1
0.5
0
−0.5
−1

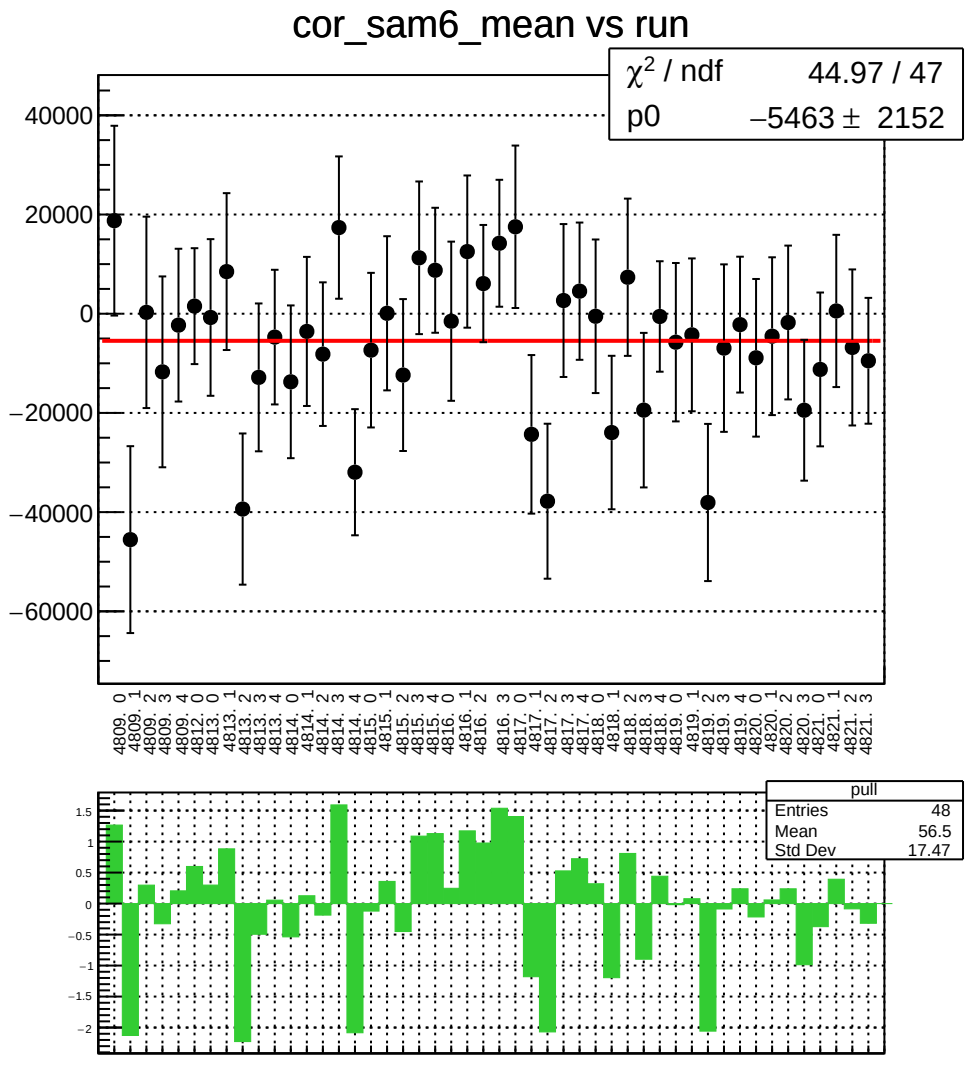

pull1D
Entries 48
Mean 0.02029
Std Dev 0.8016
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

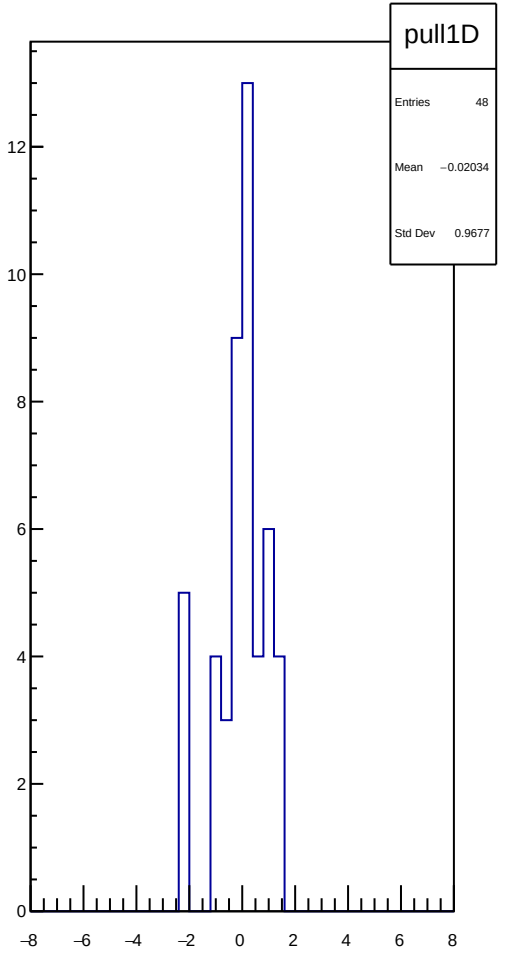

cor_sam4_rms vs run
χ² / ndf 2680 / 47
p0 3616 ± 3.671
4400
4200
4000
3800
3600
3400
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

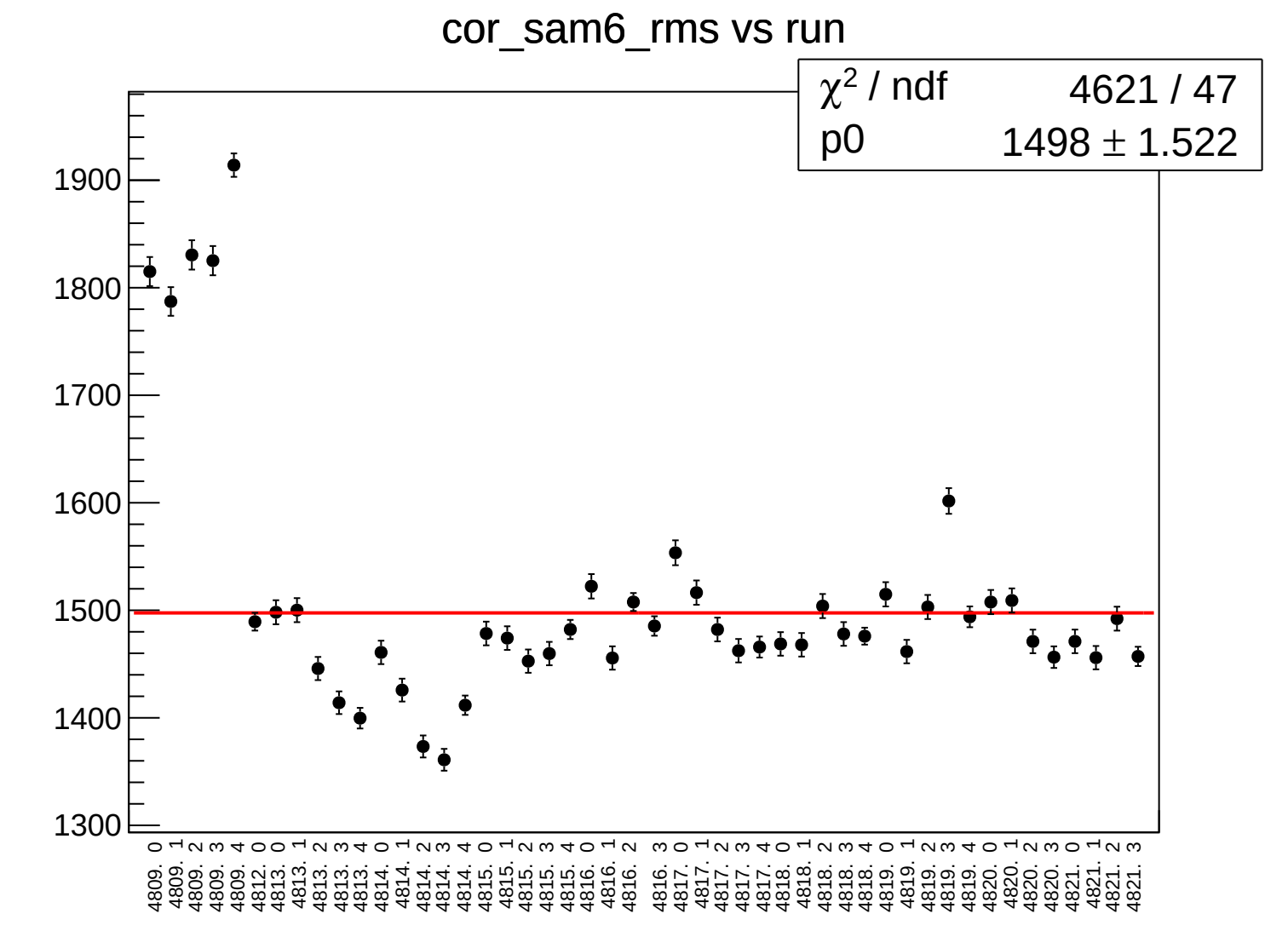

cor_sam5_mean vs run
χ² / ndf 35.2 / 47
p0 1037 ± 673.4
20000
15000
10000
5000
0
−5000
−10000
−15000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 301.3
Std Dev 273.4
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

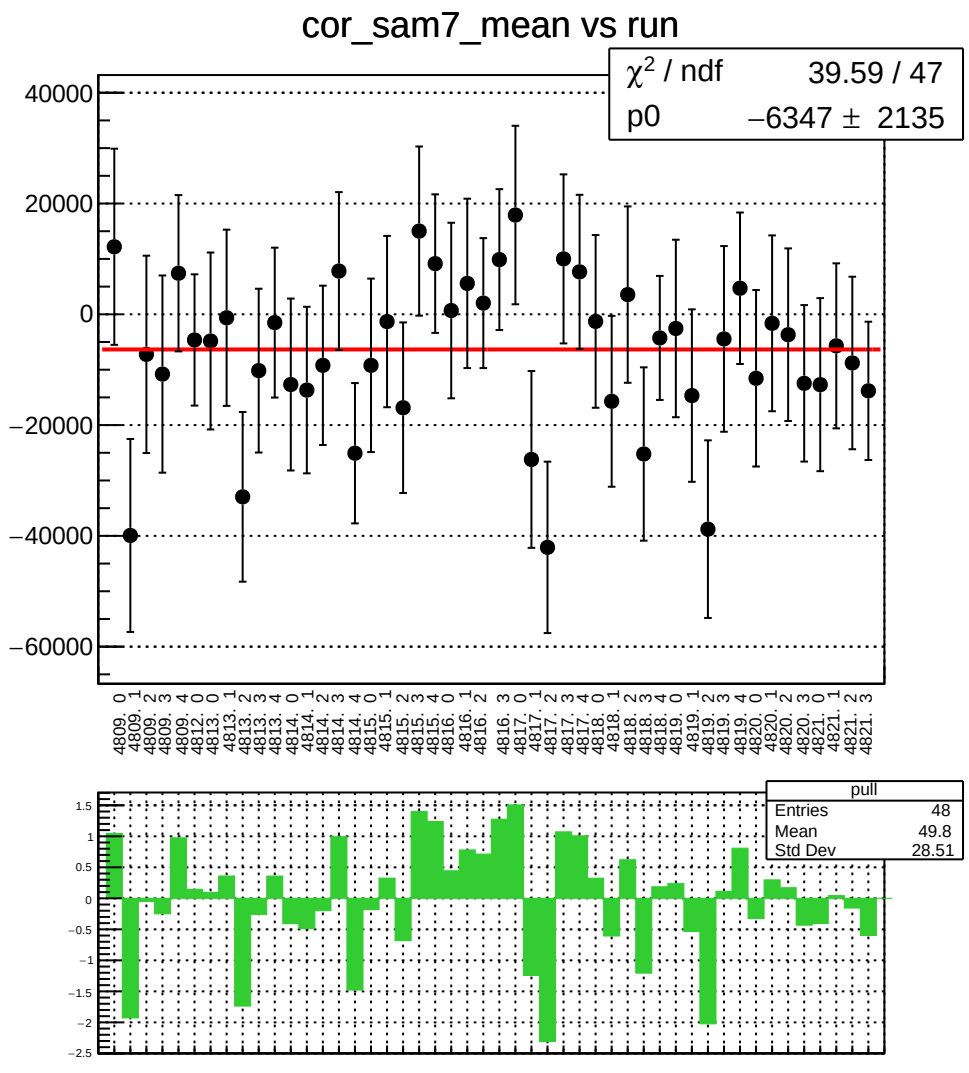

pull1D
Entries 48
Mean 0.01054
Std Dev 0.8563
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

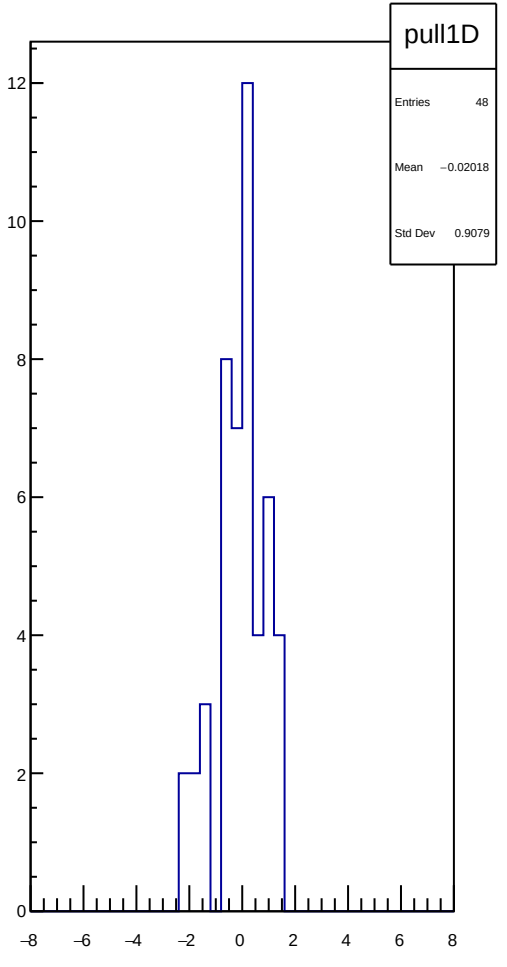

cor_sam5_rms vs run
χ² / ndf 881.9 / 47
p0 469.6 ± 0.4762
510
500
490
480
470
460
450
440
430
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

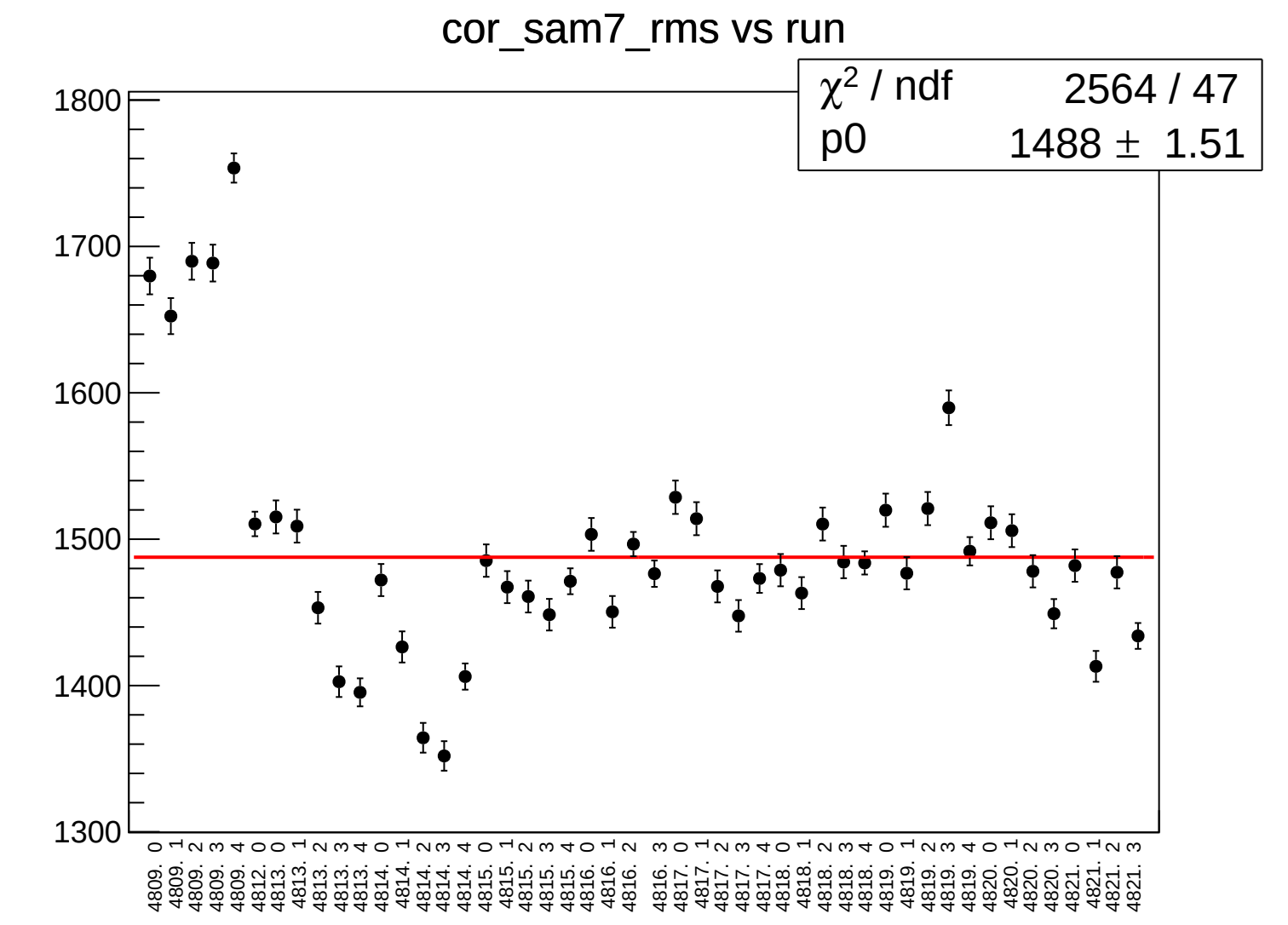

cor_sam6_mean vs run
χ² / ndf 44.97 / 47
p0 −5463 ± 2152
40000
20000
0
−20000
−40000
−60000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 56.5
Std Dev 17.47
1.5
1
0.5
0
−0.5
−1
−1.5
−2

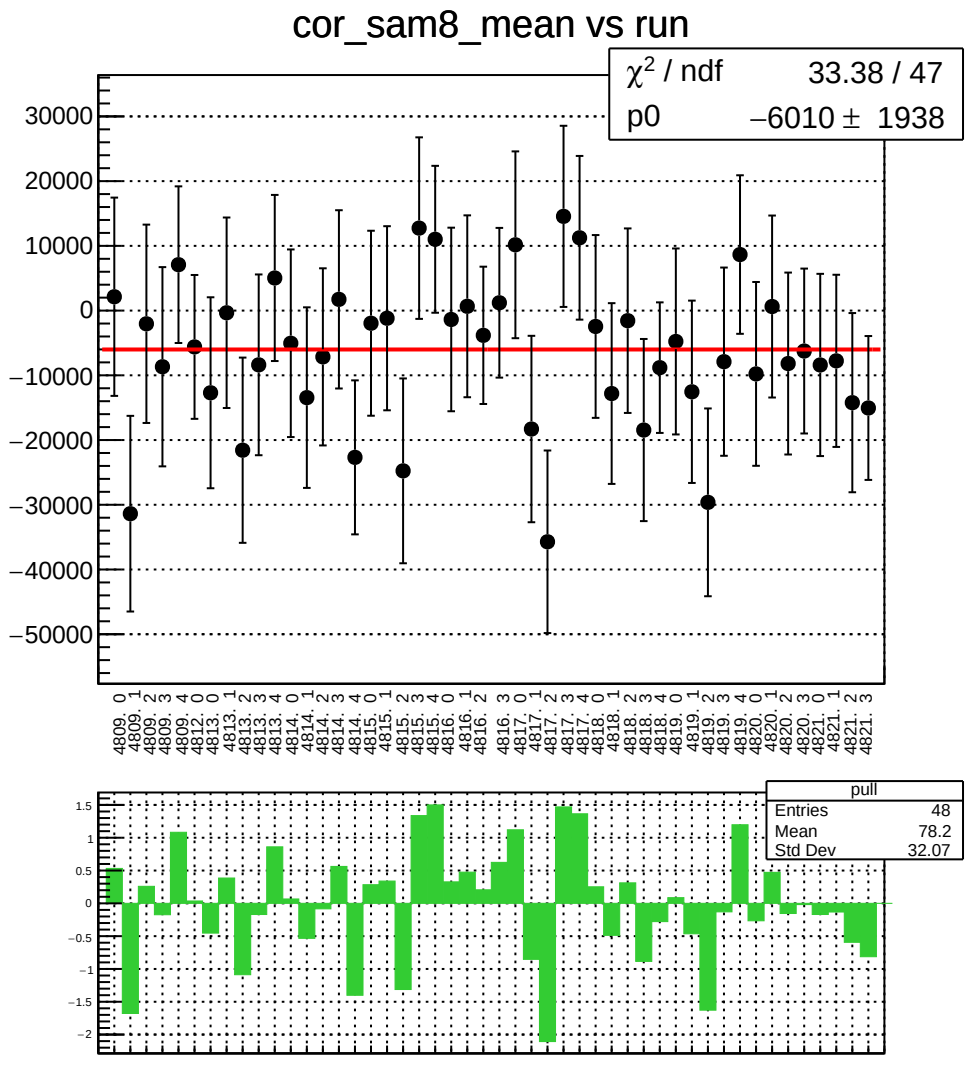

pull1D
Entries 48
Mean −0.02034
Std Dev 0.9677
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

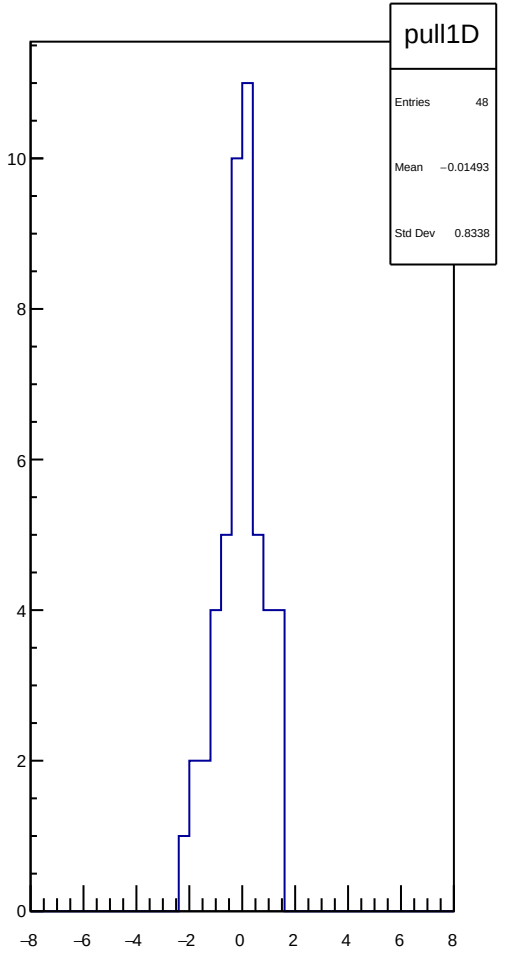

cor_sam6_rms vs run
χ² / ndf 4621 / 47
p0 1498 ± 1.522
1900
1800
1700
1600
1500
1400
1300
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

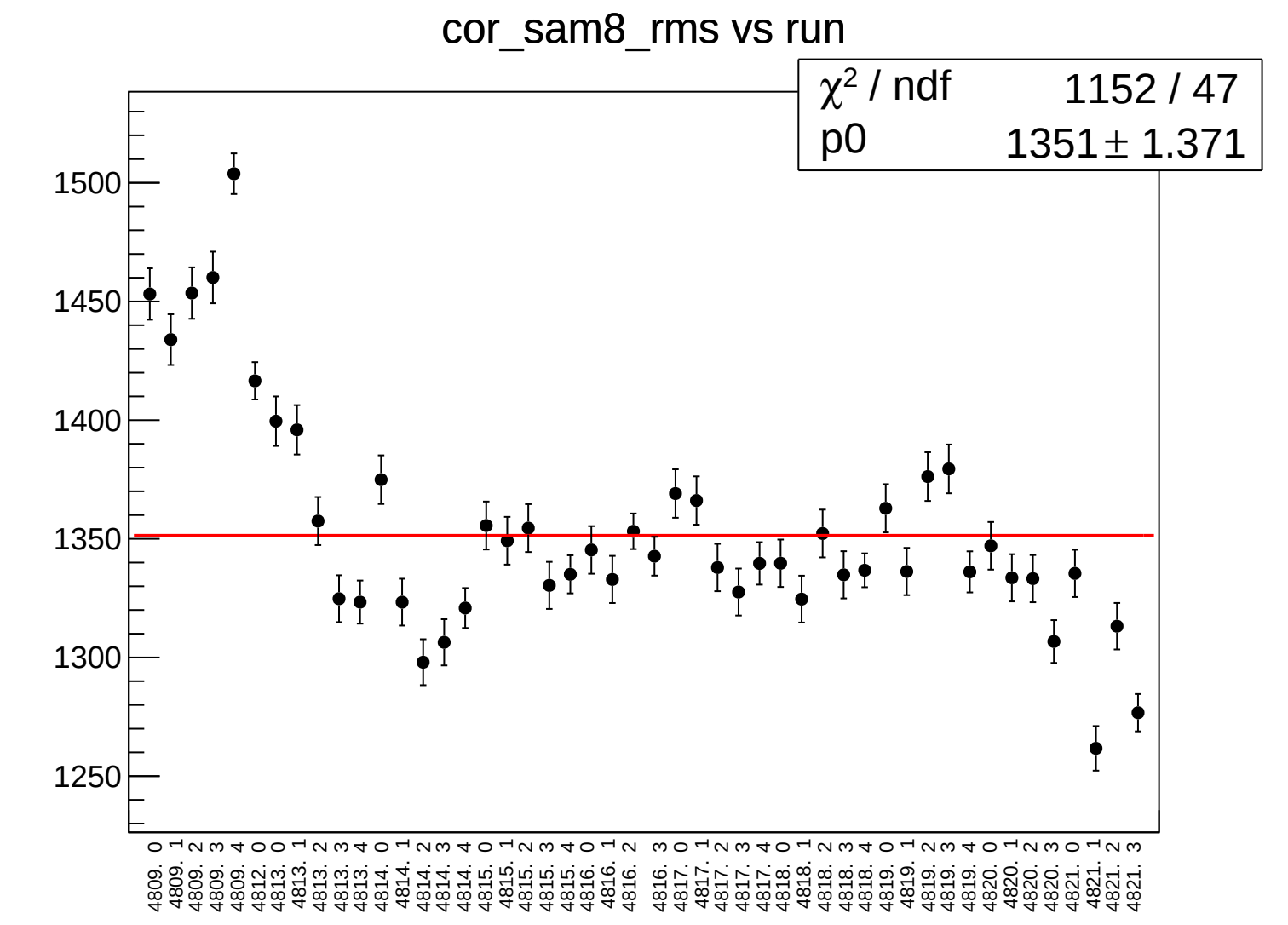

cor_sam7_mean vs run
χ² / ndf 39.59 / 47
p0 −6347 ± 2135
40000
20000
0
−20000
−40000
−60000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 49.8
Std Dev 28.51
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

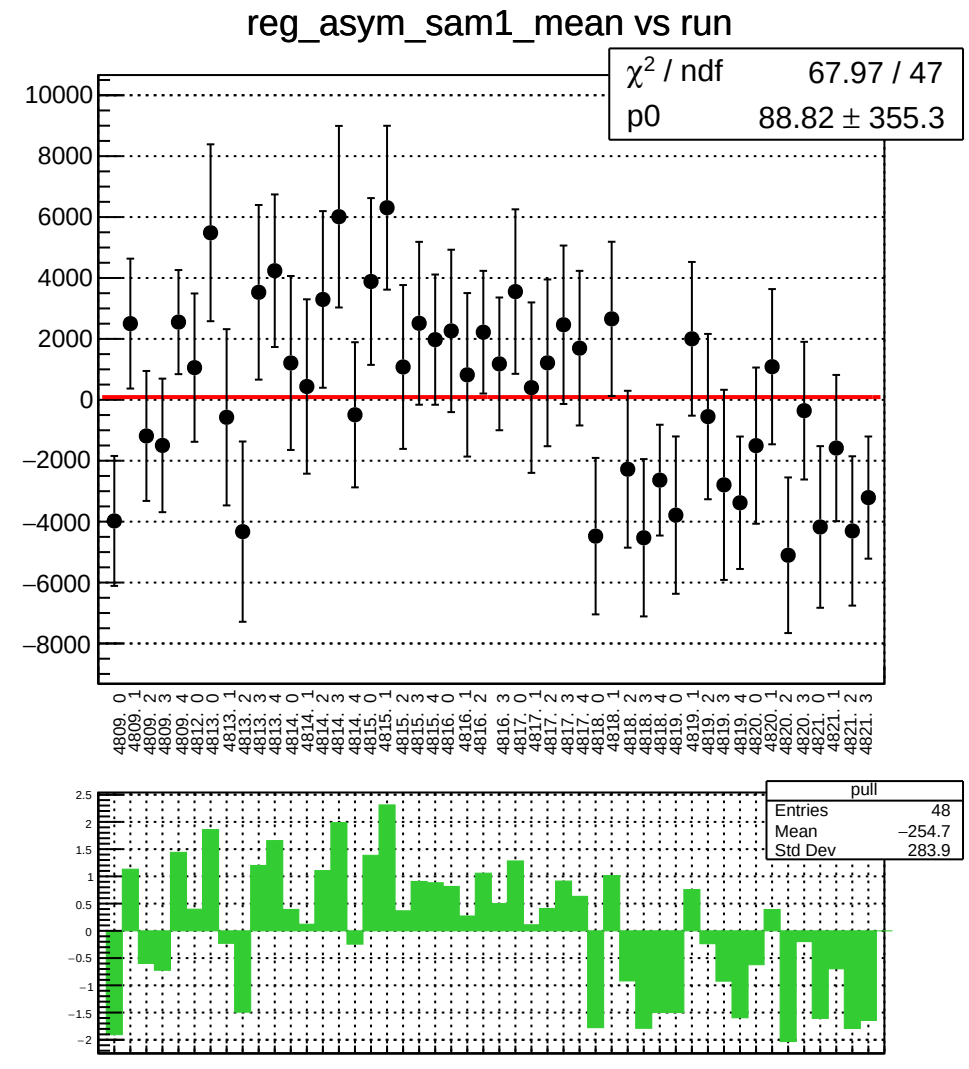

pull1D
Entries 48
Mean −0.02018
Std Dev 0.9079
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

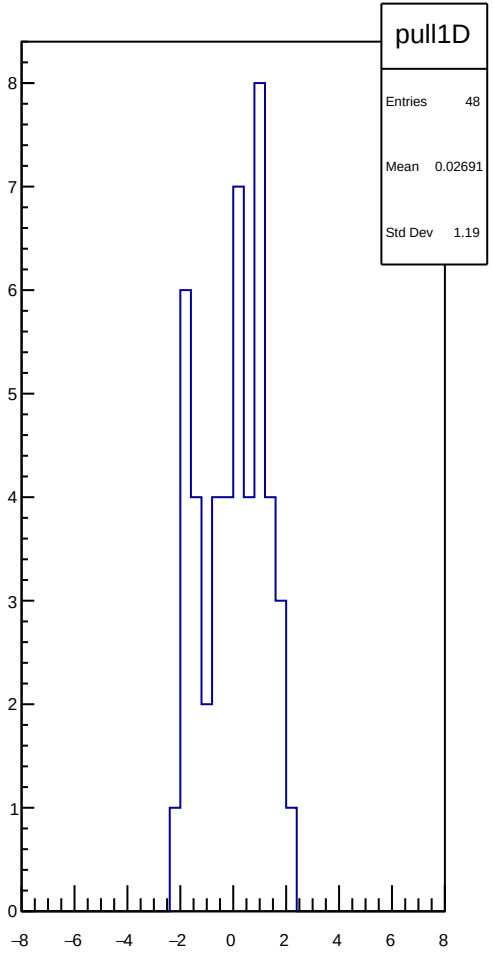

cor_sam7_rms vs run
χ² / ndf 2564 / 47
p0 1488 ± 1.51
1800
1700
1600
1500
1400
1300
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

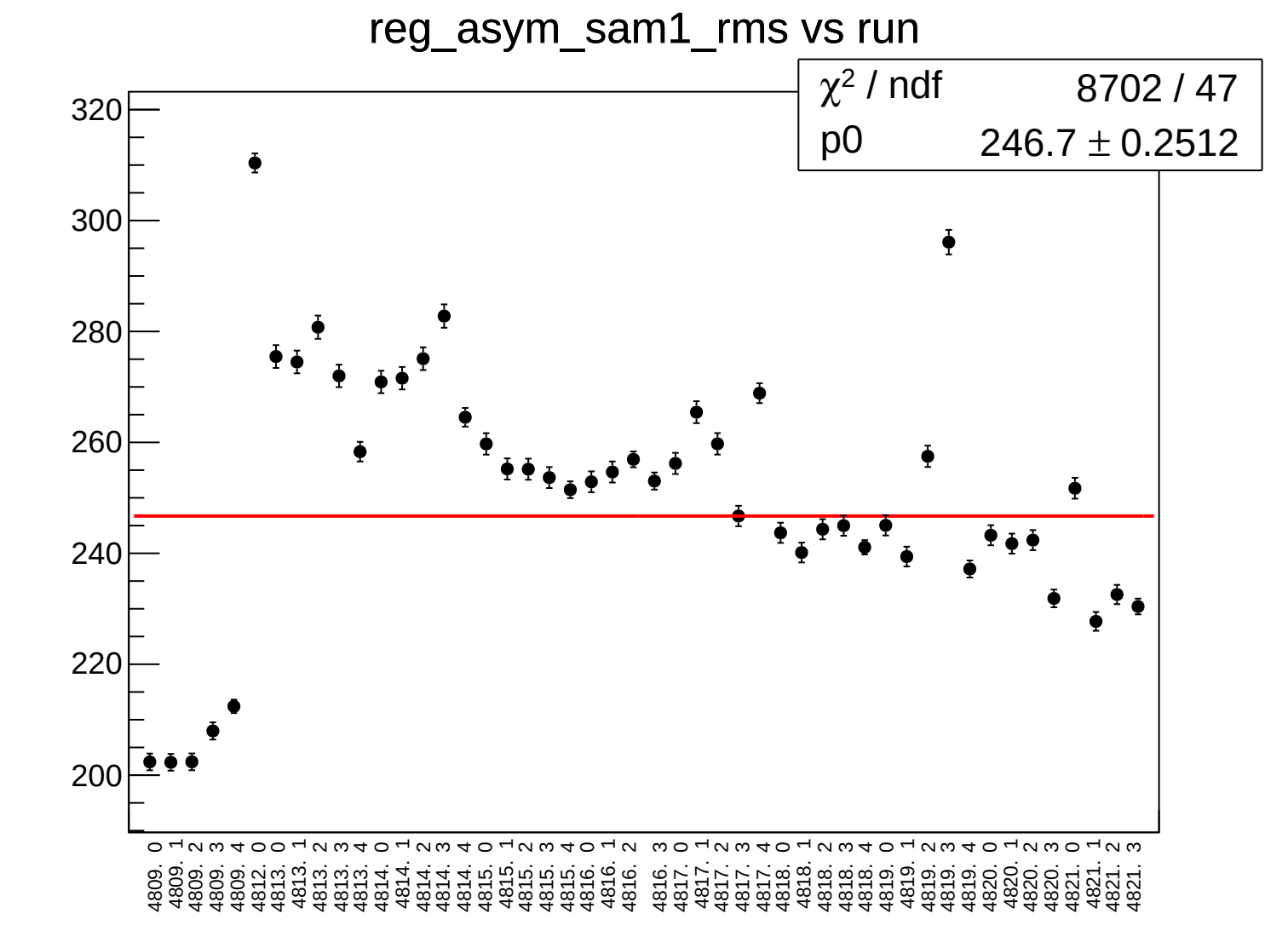

cor_sam8_mean vs run
χ² / ndf 33.38 / 47
p0 −6010 ± 1938
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 78.2
Std Dev 32.07
1.5
1
0.5
0
−0.5
−1
−1.5
−2

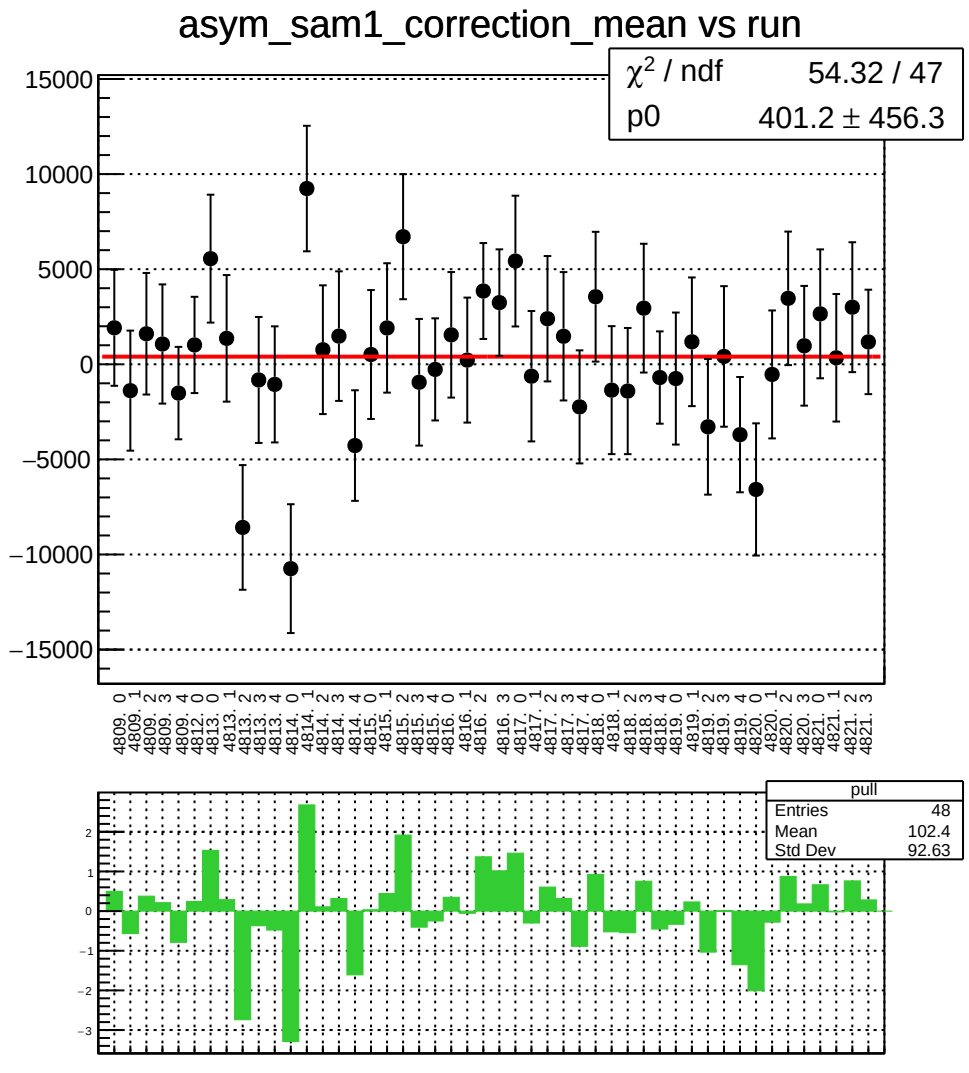

pull1D
Entries 48
Mean −0.01493
Std Dev 0.8338
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

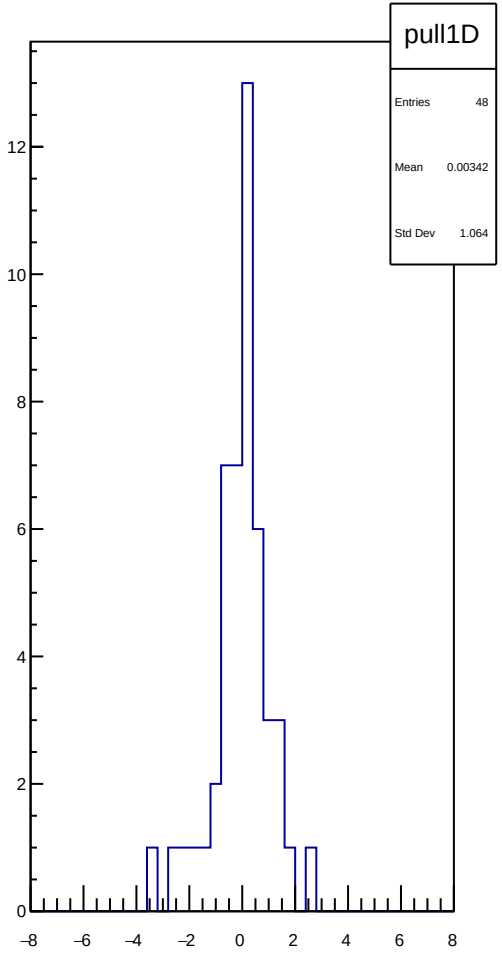

cor_sam8_rms vs run
χ² / ndf 1152 / 47
p0 1351 ± 1.371
1500
1450
1400
1350
1300
1250
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

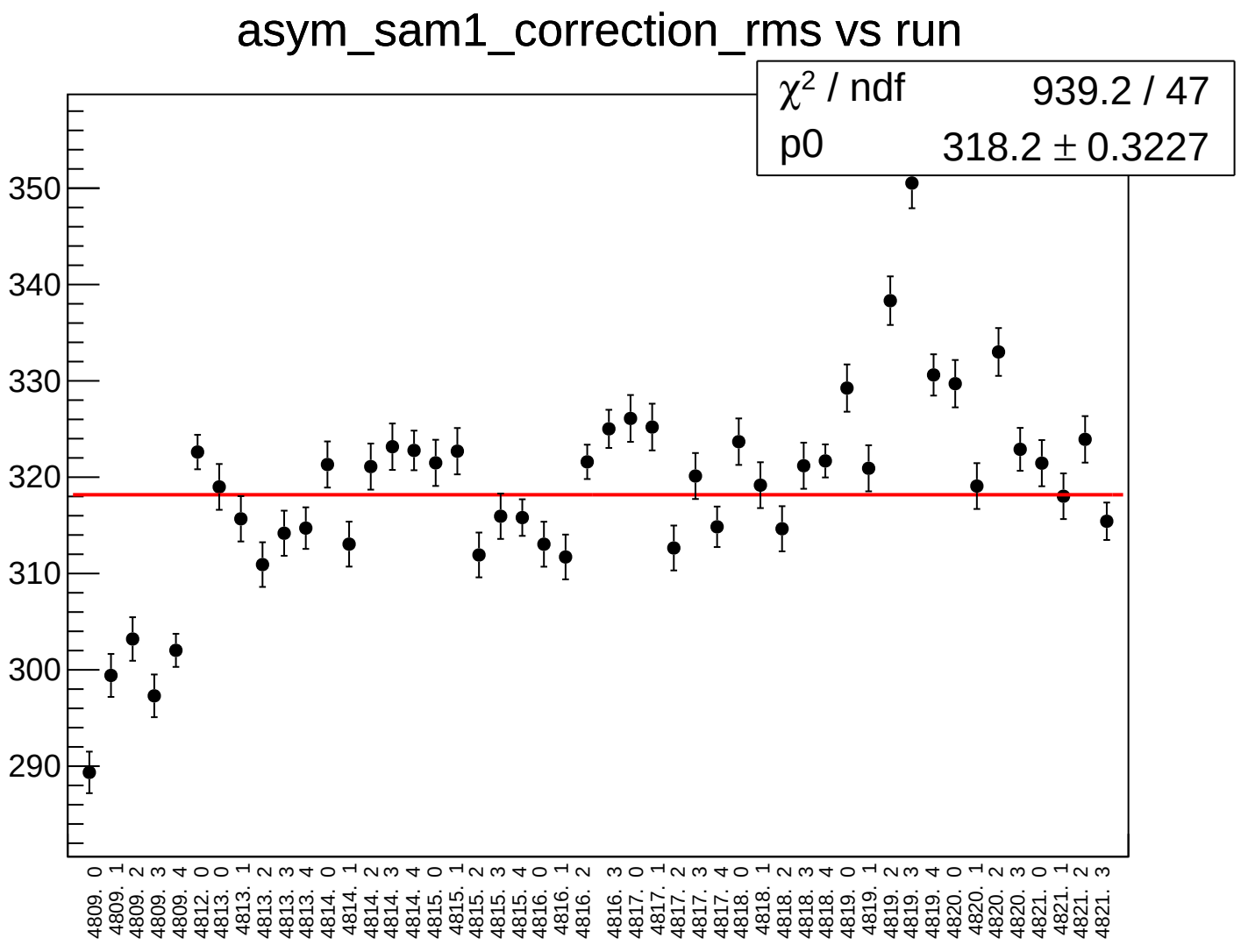

reg_asym_sam1_mean vs run
χ² / ndf 67.97 / 47
p0 88.82 ± 355.3
pull
Entries 48
Mean −254.7
Std Dev 283.9

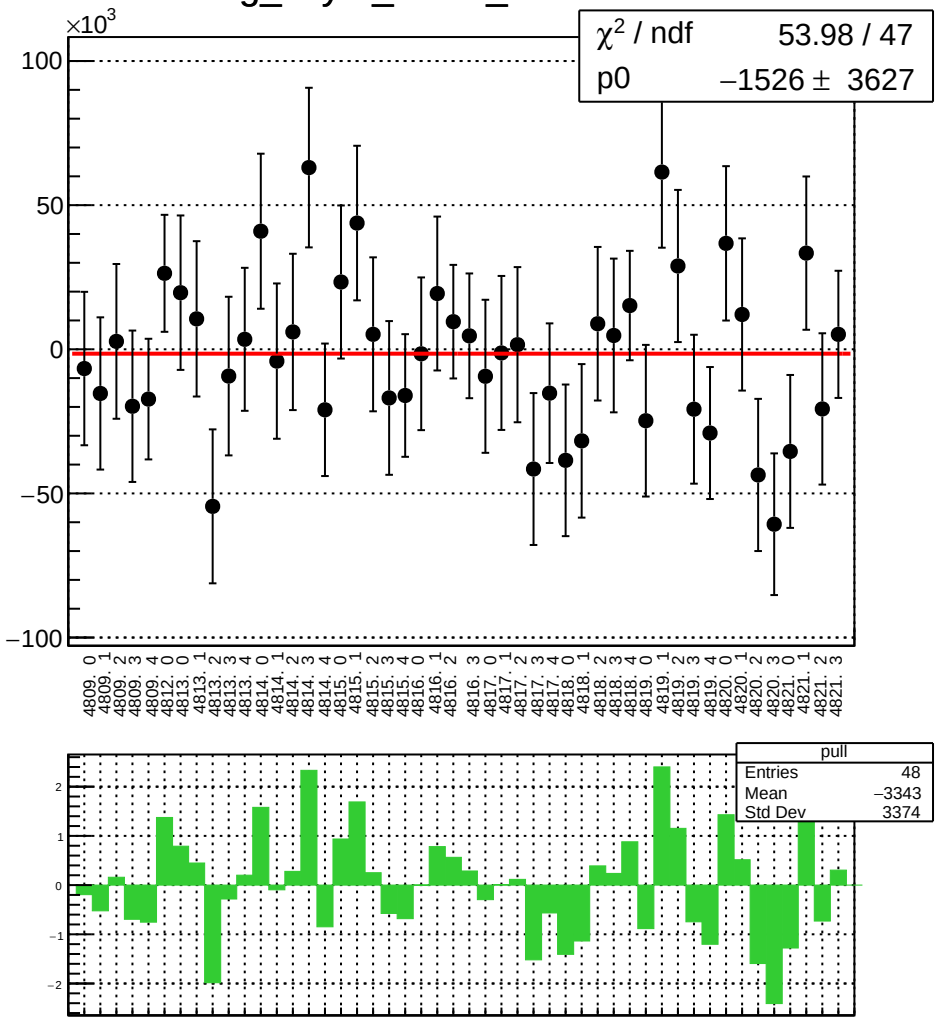

pull1D
Entries 48
Mean 0.02691
Std Dev 1.19

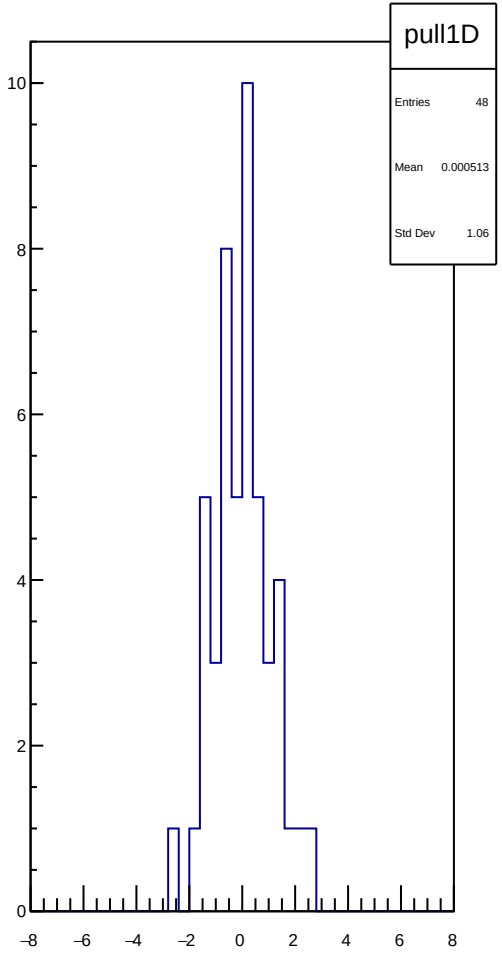

reg_asym_sam1_rms vs run
χ² / ndf 8702 / 47
p0 246.7 ± 0.2512
320
300
280
260
240
220
200
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

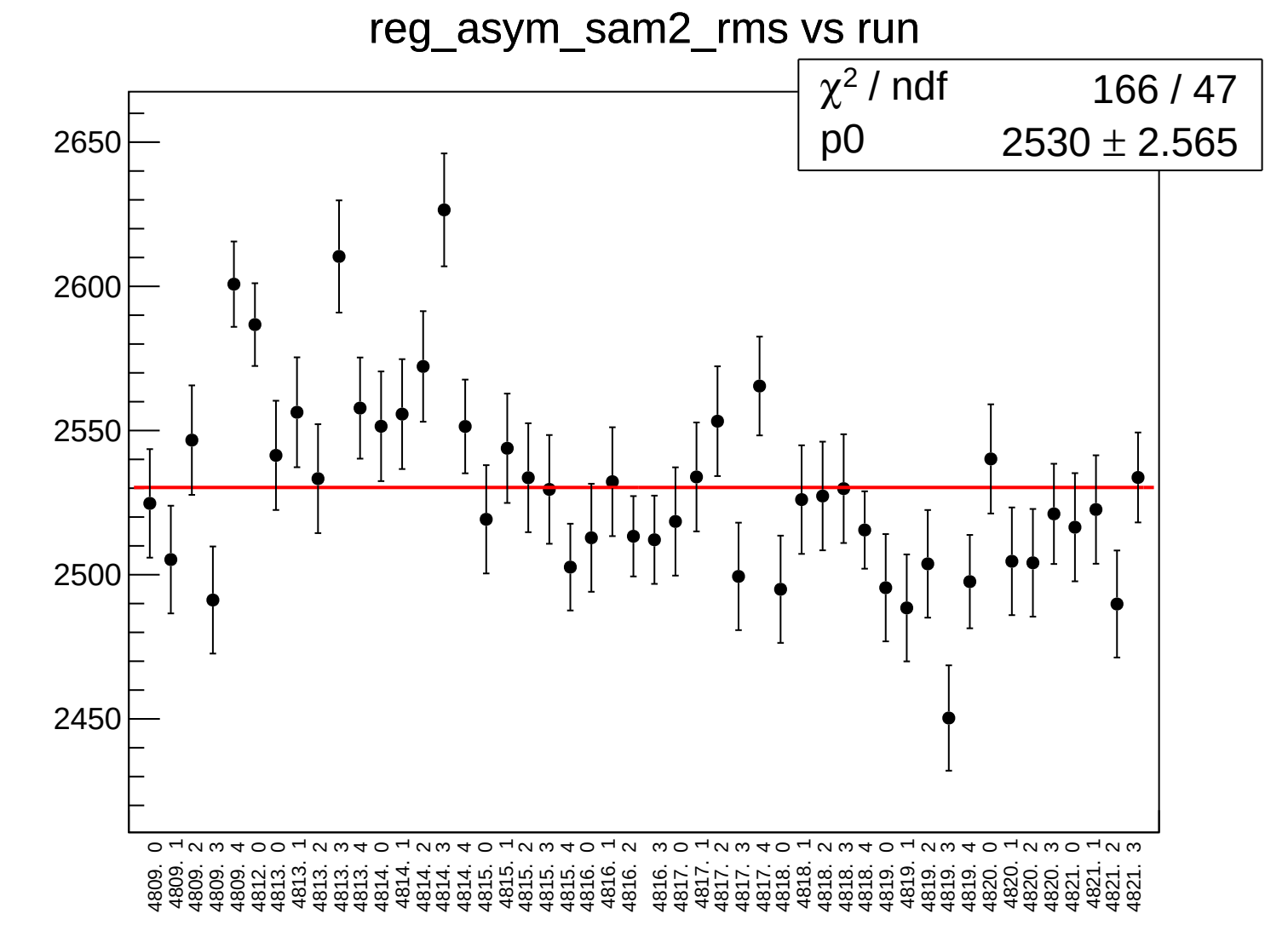

asym_sam1_correction_mean vs run
χ² / ndf 54.32 / 47
p0 401.2 ± 456.3
15000
10000
5000
0
−5000
−10000
−15000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 102.4
Std Dev 92.63
2
1
0
−1
−2
−3

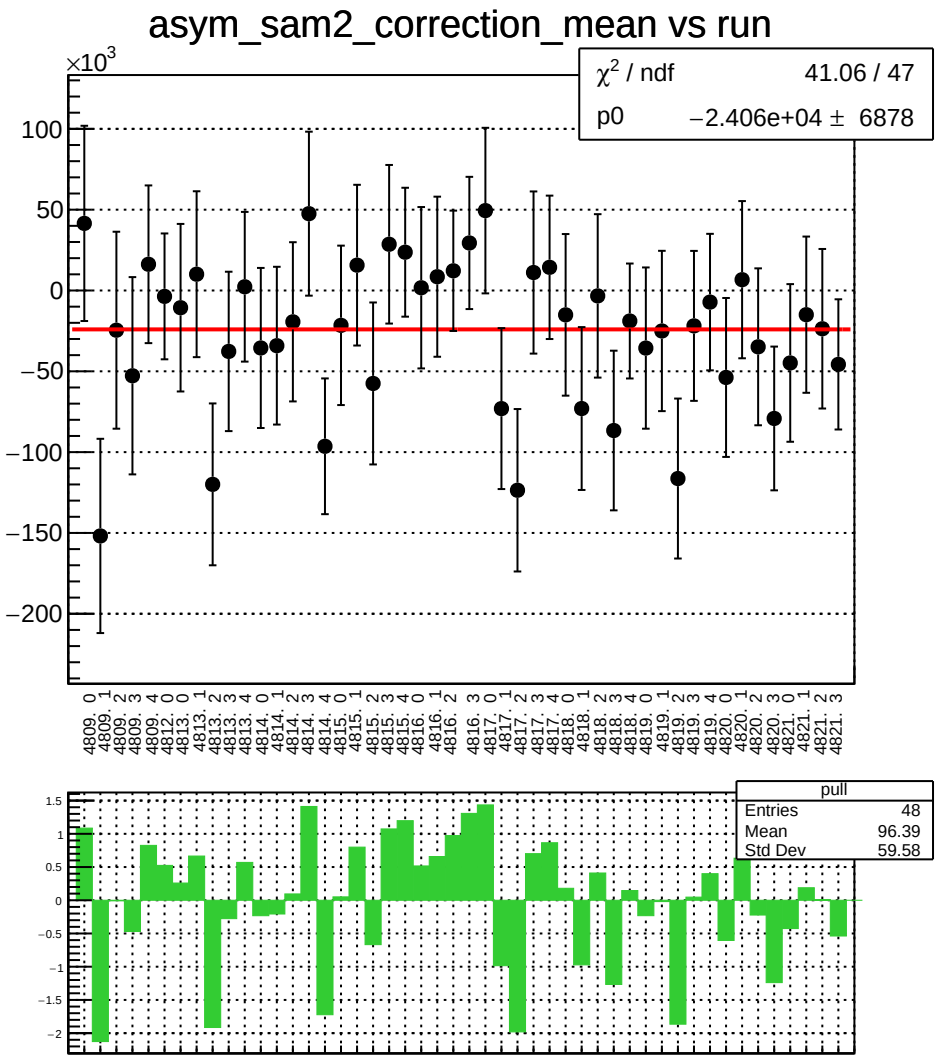

pull1D
Entries 48
Mean 0.00342
Std Dev 1.064
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

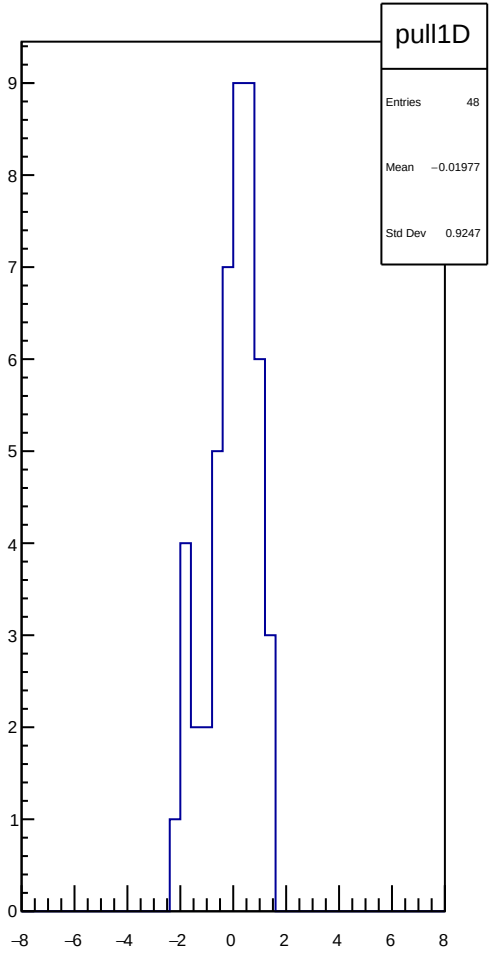

asym_sam1_correction_rms vs run
χ² / ndf 939.2 / 47
p0 318.2 ± 0.3227
350
340
330
320
310
300
290
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

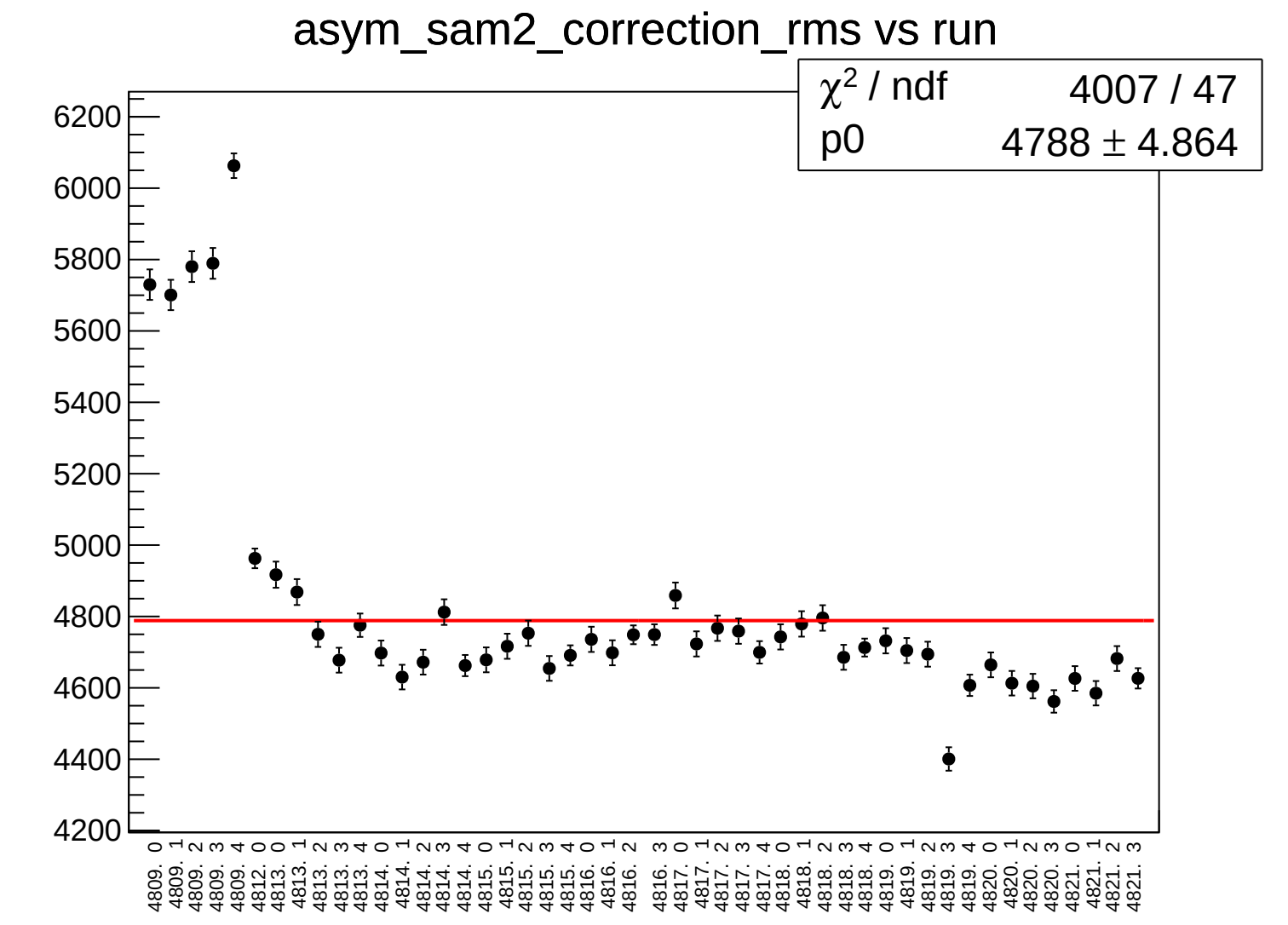

reg_asym_sam2_mean vs run
×10^3
χ² / ndf 53.98 / 47
p0 −1526 ± 3627
100
50
0
−50
−100
pull
Entries 48
Mean −3343
Std Dev 3374
2
1
0
−1
−2

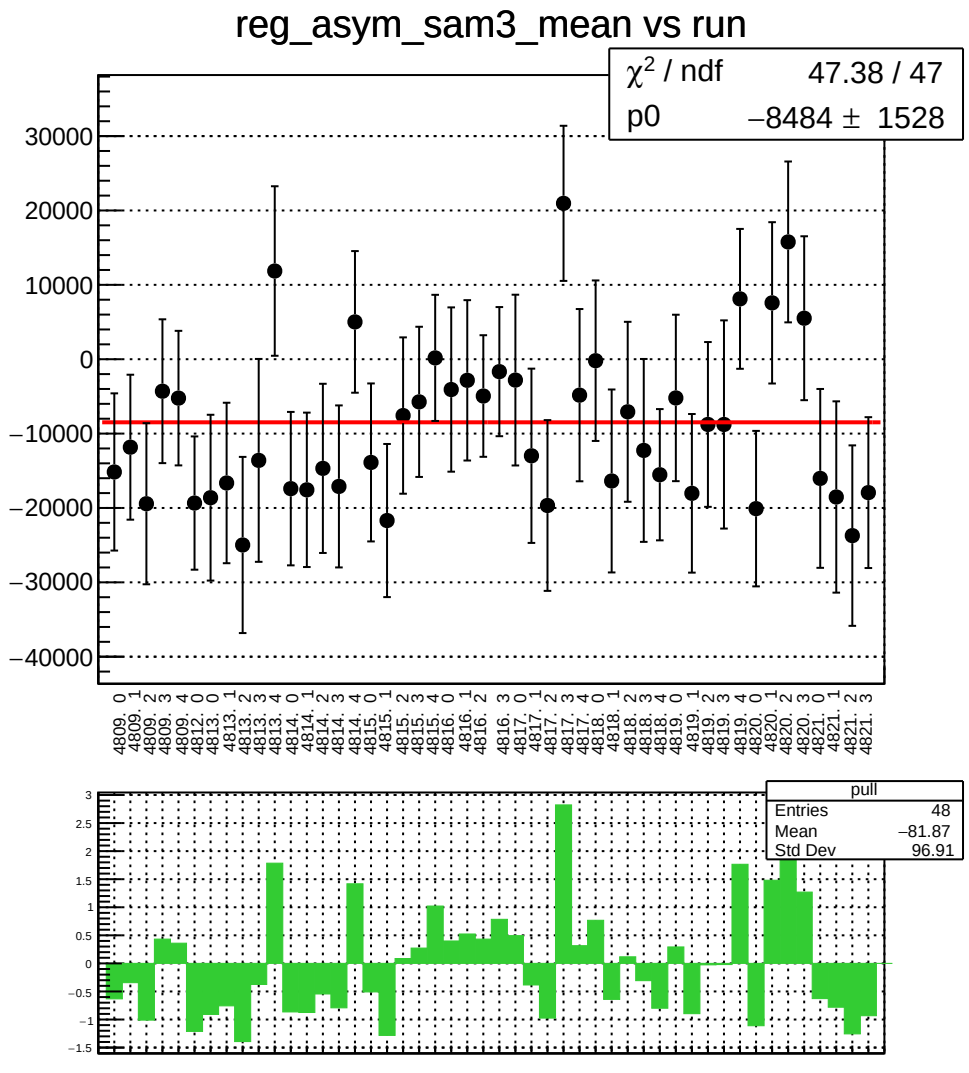

pull1D
Entries 48
Mean 0.000513
Std Dev 1.06
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

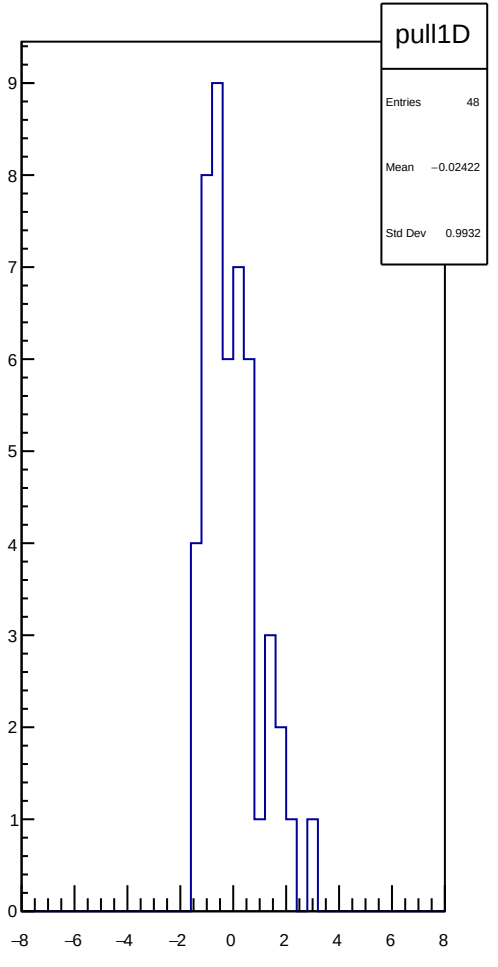

reg_asym_sam2_rms vs run
χ² / ndf 166 / 47
p0 2530 ± 2.565
2650
2600
2550
2500
2450
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

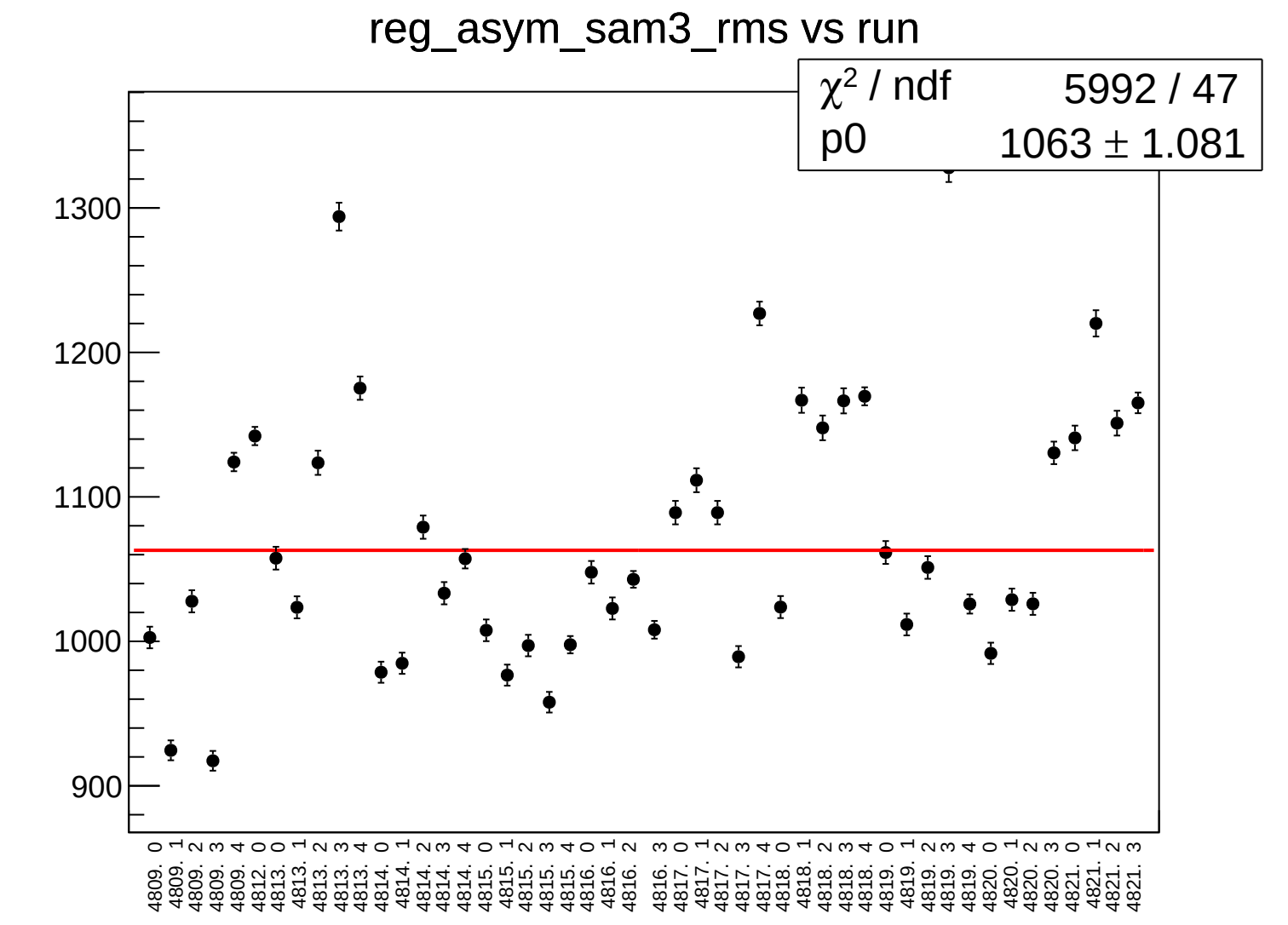

asym_sam2_correction_mean vs run
×10^3
χ² / ndf 41.06 / 47
p0 −2.406e+04 ± 6878
100
50
0
−50
−100
−150
−200
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 96.39
Std Dev 59.58
1.5
1
0.5
0
−0.5
−1
−1.5
−2

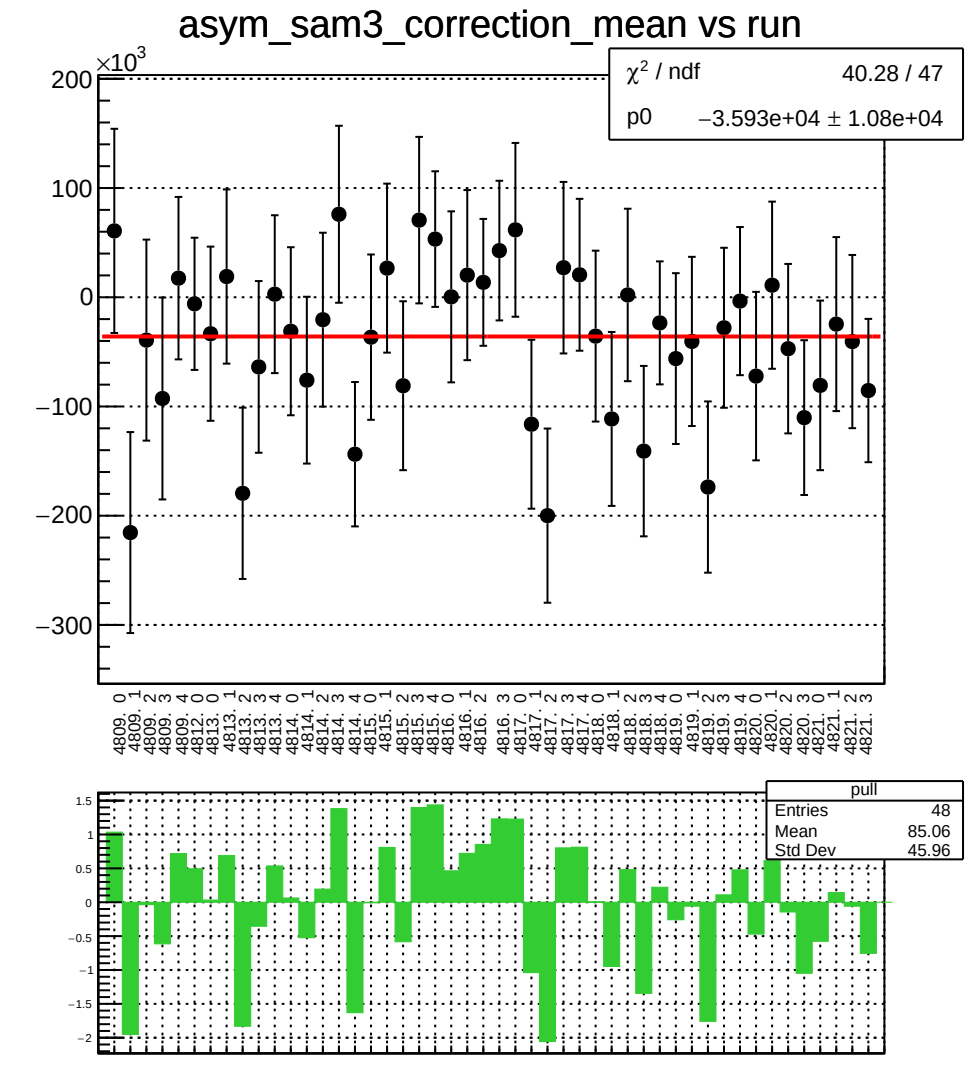

pull1D
Entries 48
Mean −0.01977
Std Dev 0.9247
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

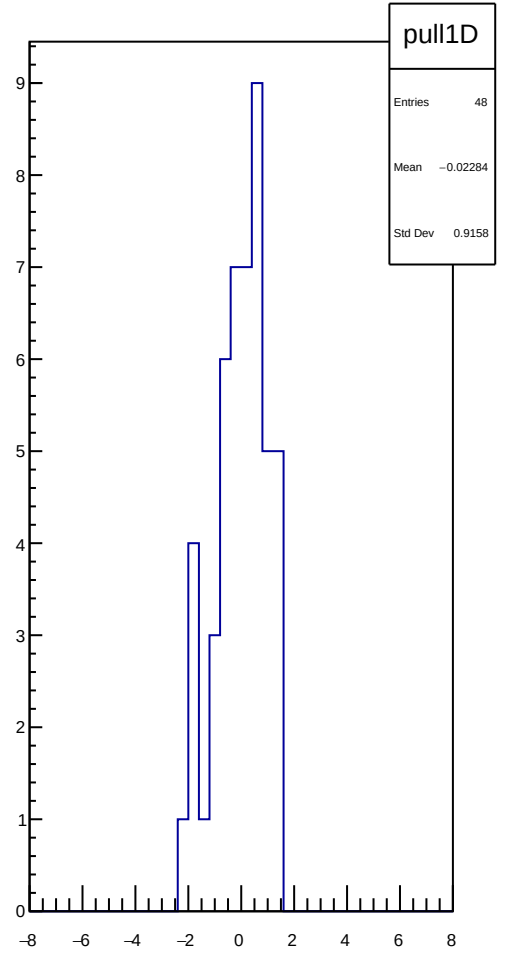

asym_sam2_correction_rms vs run
χ² / ndf 4007 / 47
p0 4788 ± 4.864
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400
4200
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

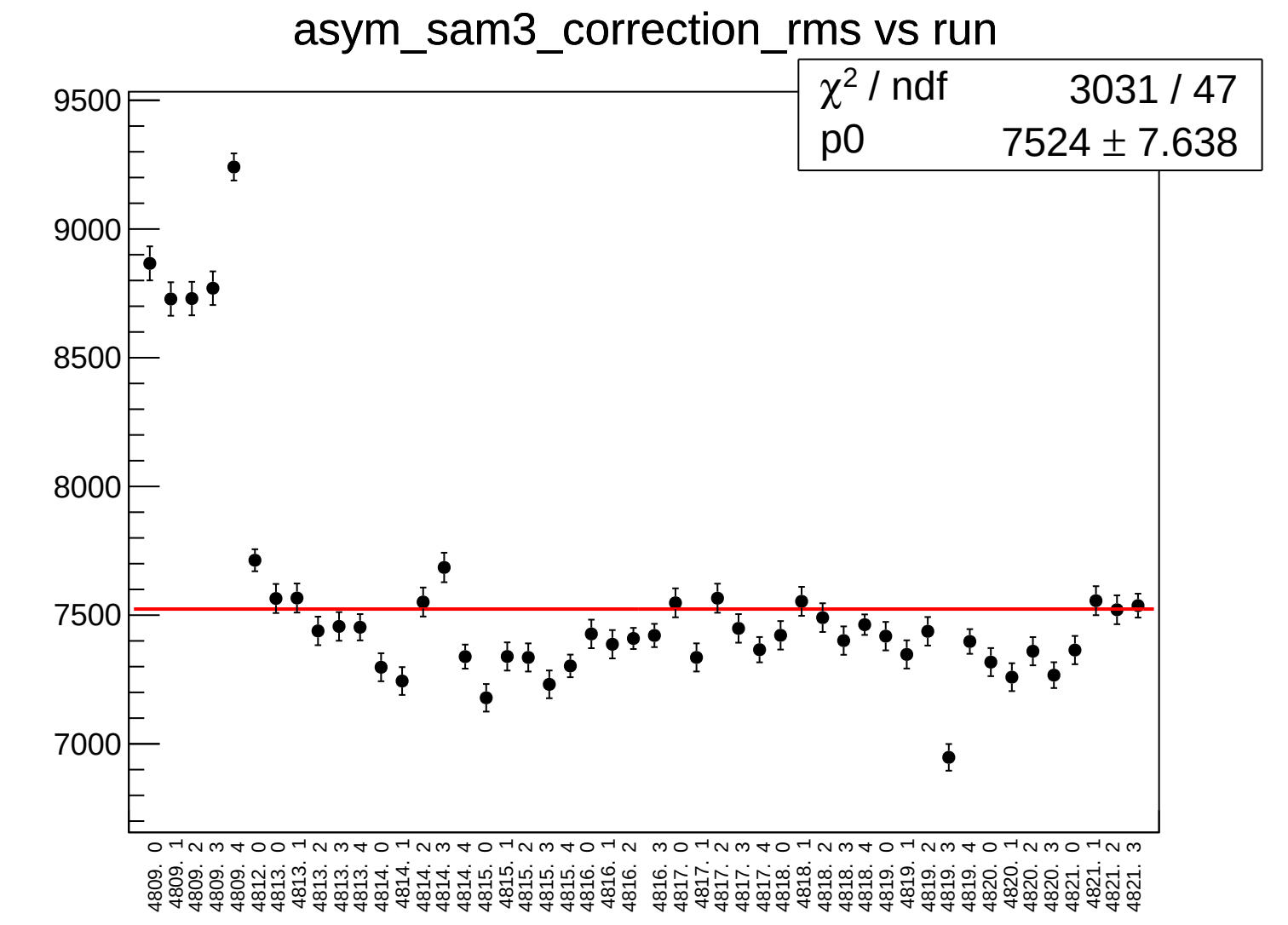

reg_asym_sam3_mean vs run
χ² / ndf 47.38 / 47
p0 −8484 ± 1528
30000
20000
10000
0
−10000
−20000
−30000
−40000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean −81.87
Std Dev 96.91
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 48
Mean −0.02422
Std Dev 0.9932
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam3_rms vs run
χ² / ndf 5992 / 47
p0 1063 ± 1.081
1300
1200
1100
1000
900
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3


asym_sam3_correction_mean vs run
×10^3
χ² / ndf 40.28 / 47
p0 −3.593e+04 ± 1.08e+04
pull
Entries 48
Mean 85.06
Std Dev 45.96


pull1D
Entries 48
Mean −0.02284
Std Dev 0.9158


asym_sam3_correction_rms vs run
χ² / ndf 3031 / 47
p0 7524 ± 7.638
9500
9000
8500
8000
7500
7000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
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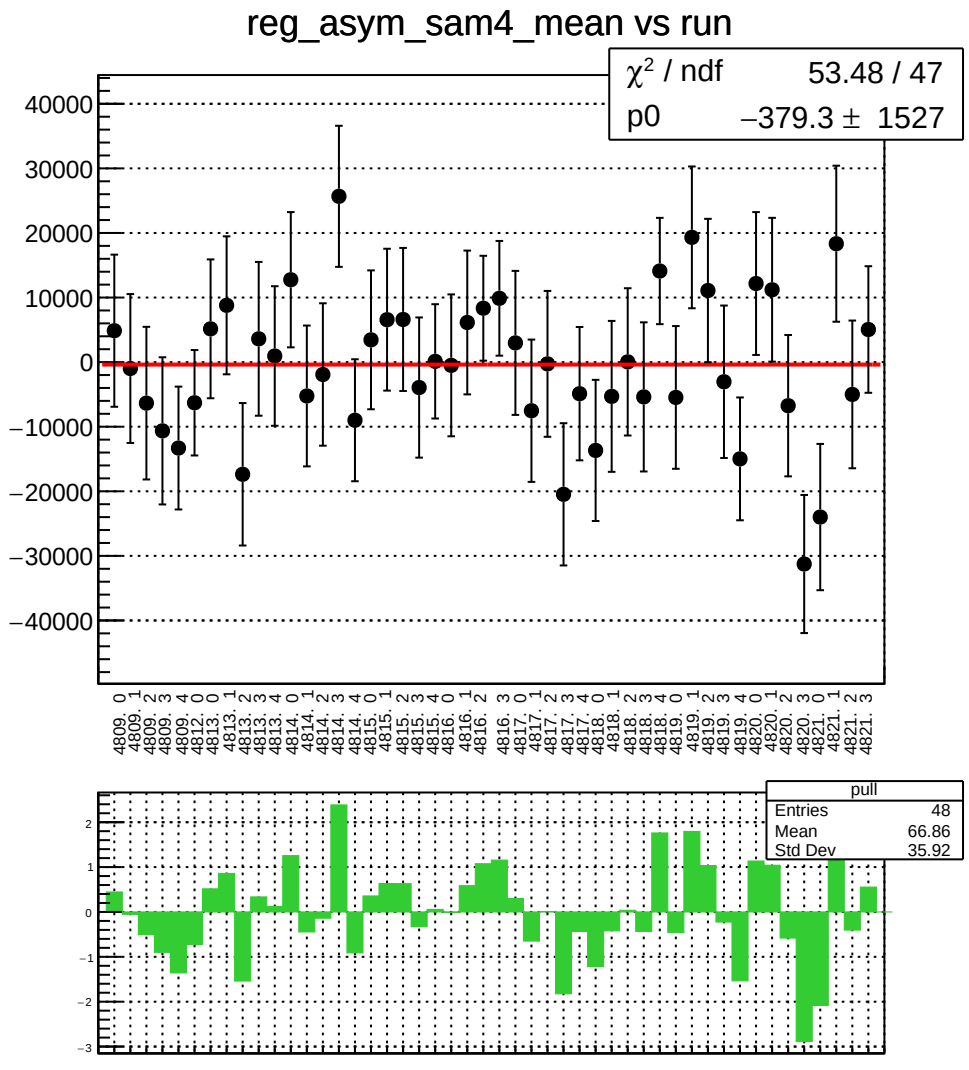
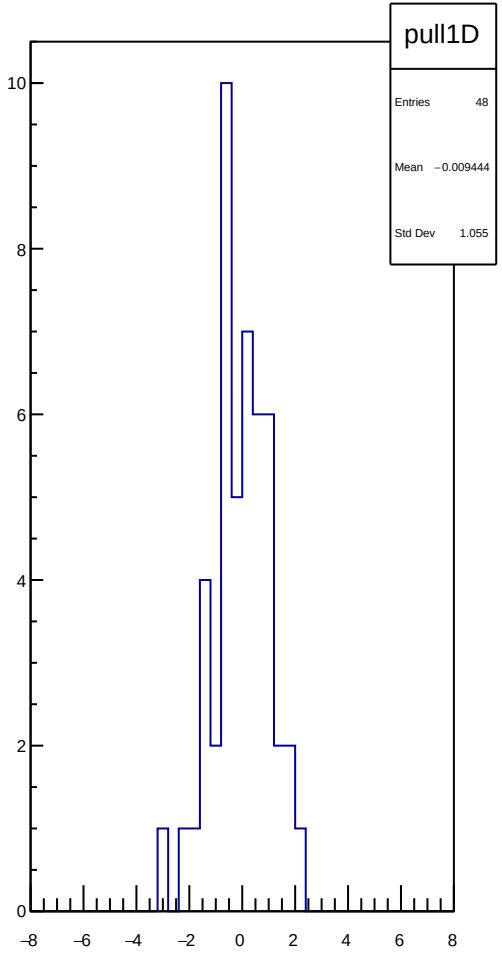
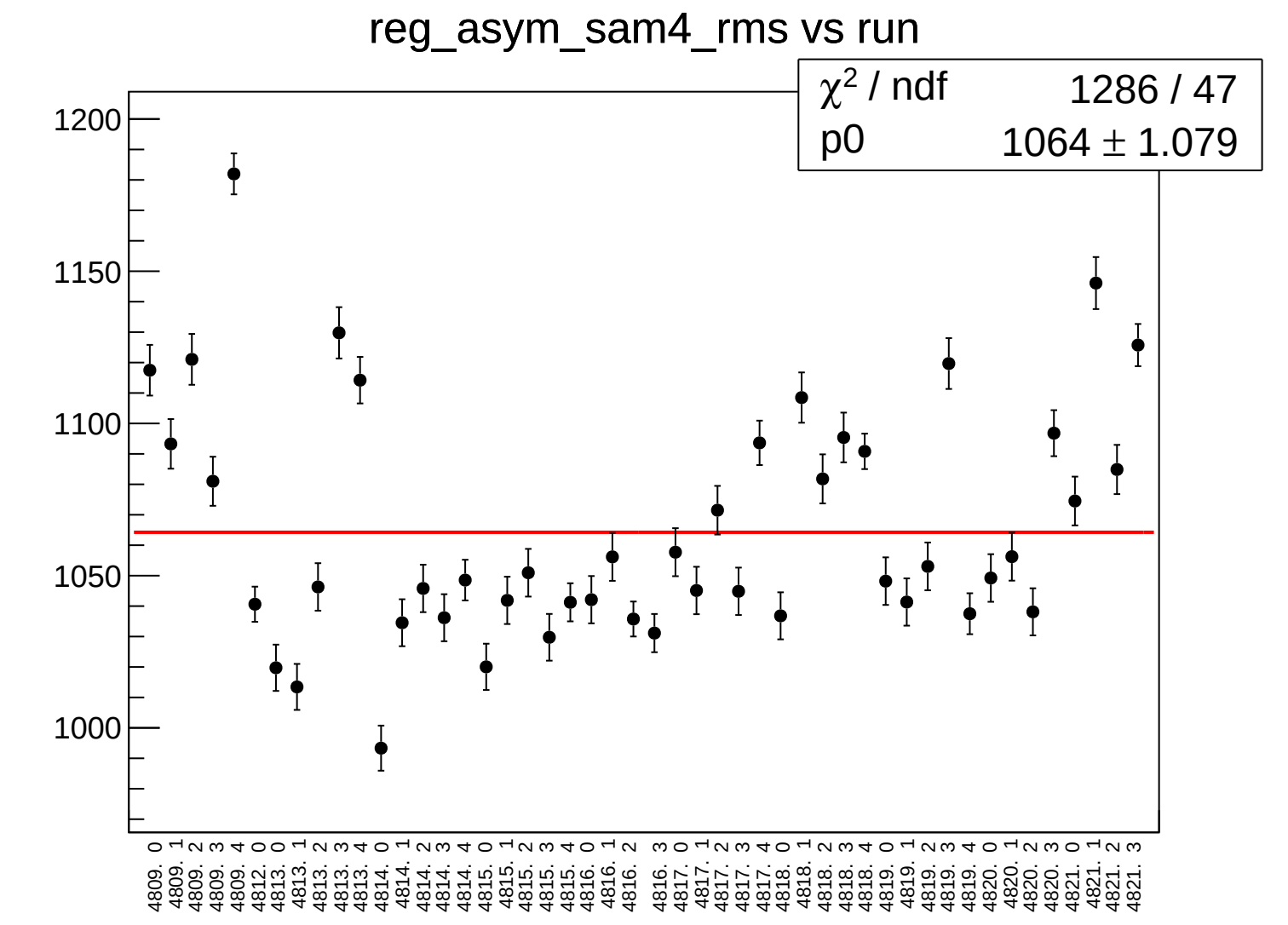
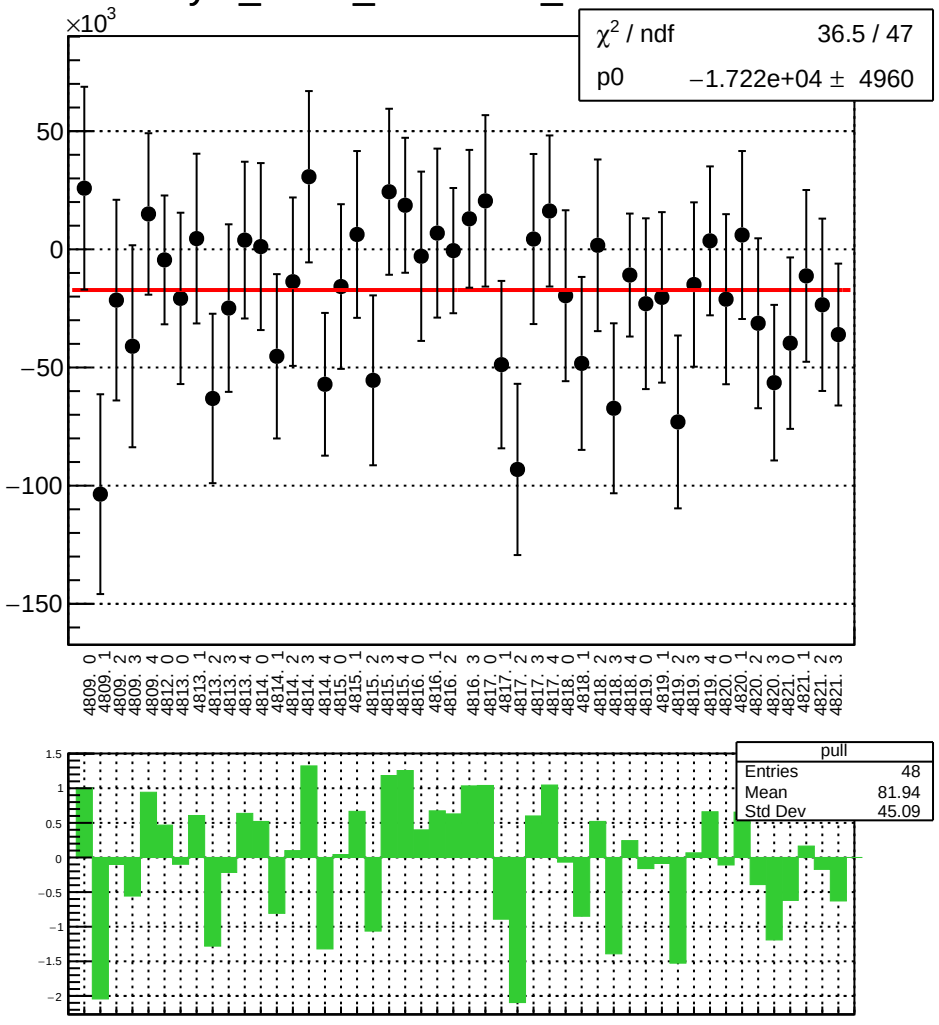
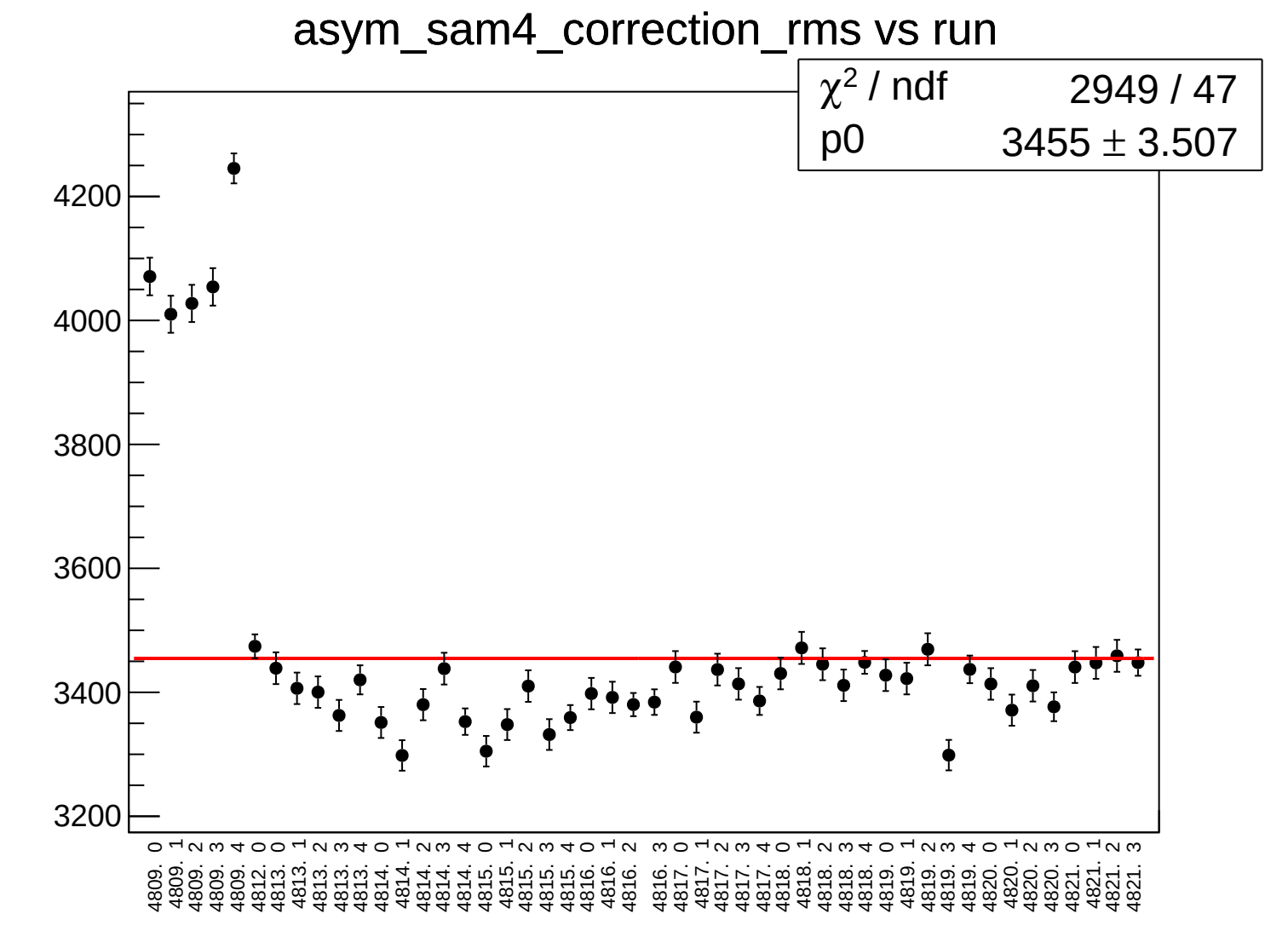
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

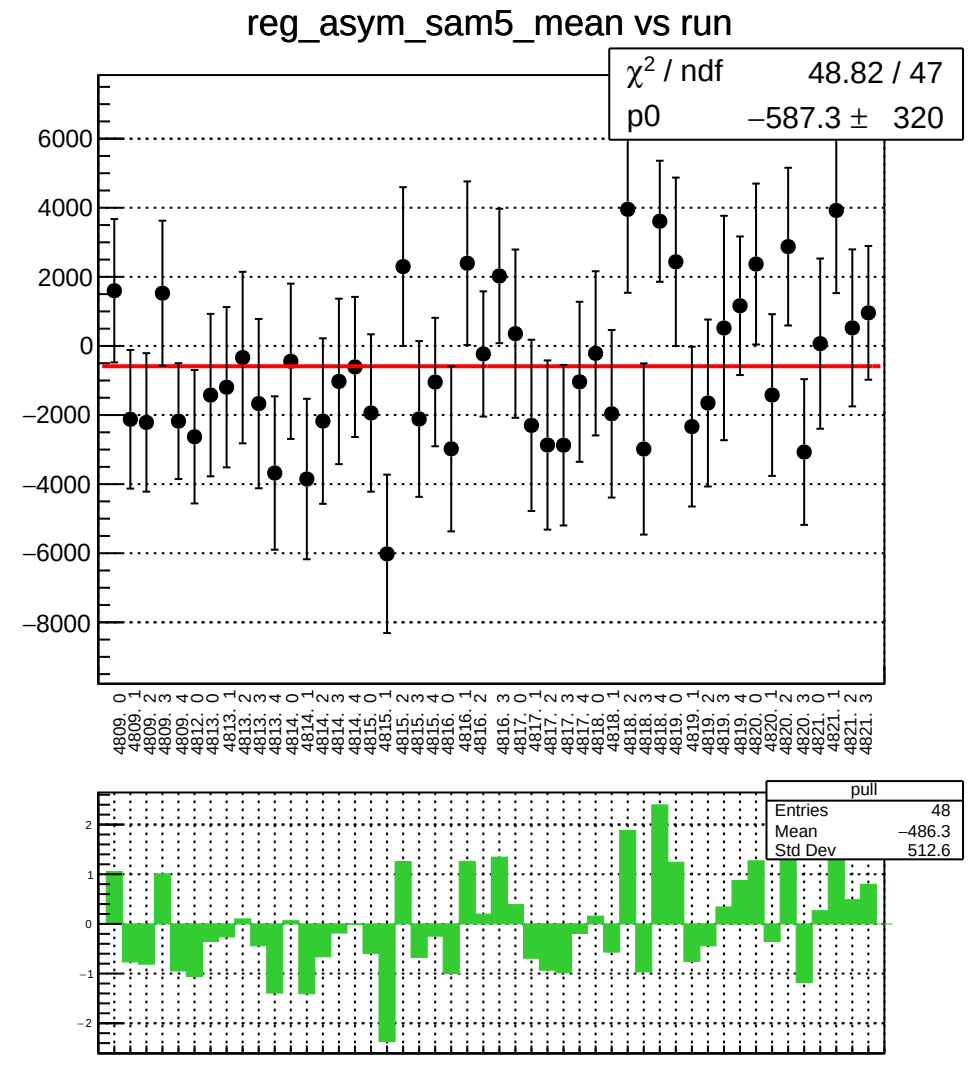

reg_asym_sam4_mean vs run
χ² / ndf 53.48 / 47
p0 −379.3 ± 1527
pull
Entries 48
Mean 66.86
Std Dev 35.92

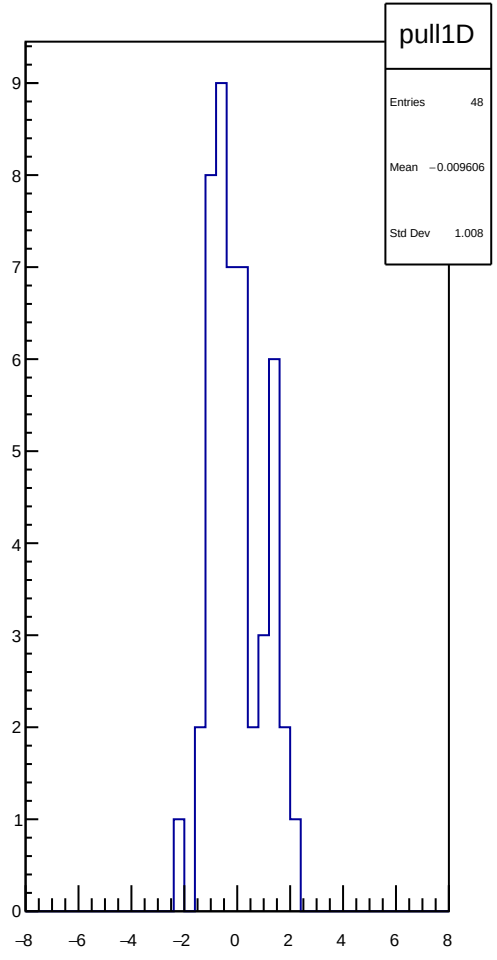

pull1D
Entries 48
Mean −0.009444
Std Dev 1.055

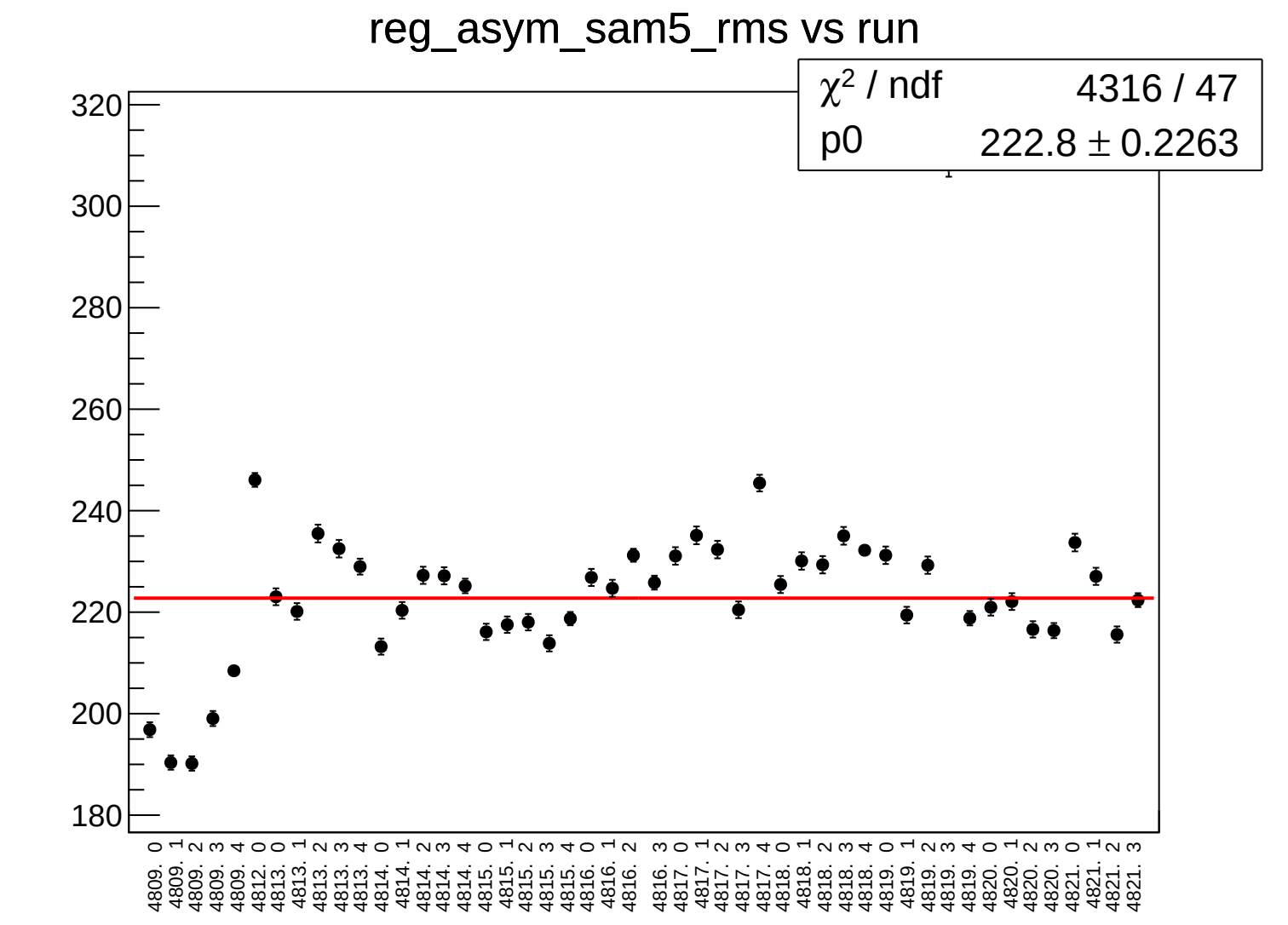

reg_asym_sam4_rms vs run
χ² / ndf 1286 / 47
p0 1064 ± 1.079
1200
1150
1100
1050
1000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

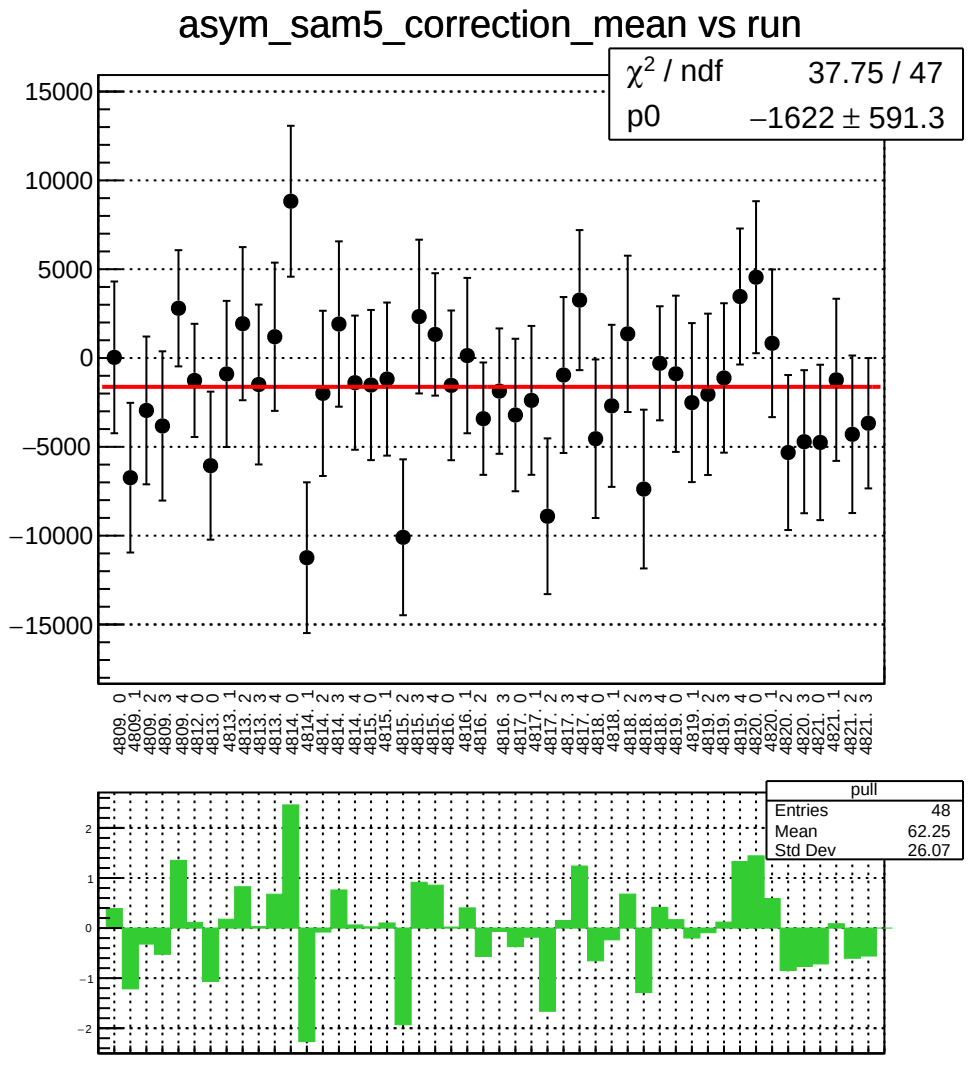

asym_sam4_correction_mean vs run
×10^3
χ² / ndf 36.5 / 47
p0 −1.722e+04 ± 4960
50
0
−50
−100
−150
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 81.94
Std Dev 45.09
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 48
Mean −0.02459
Std Dev 0.8717
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

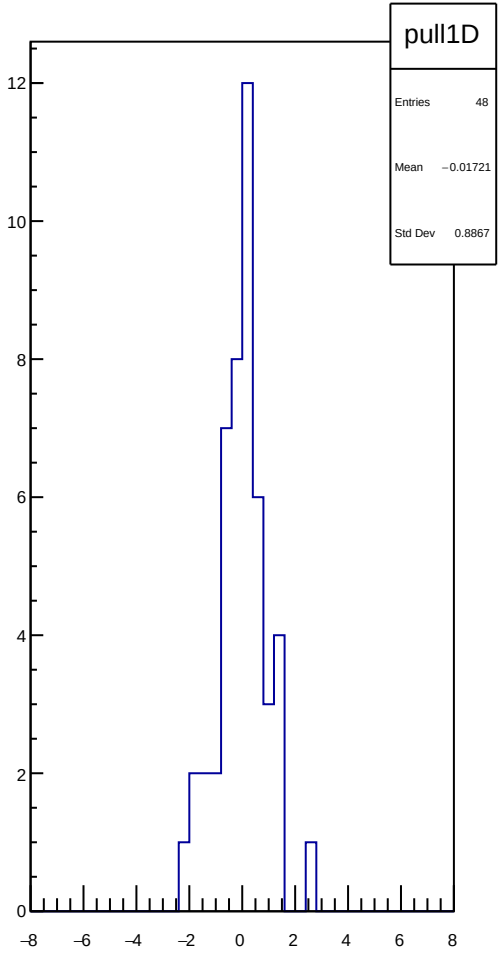

asym_sam4_correction_rms vs run
χ² / ndf 2949 / 47
p0 3455 ± 3.507
4200
4000
3800
3600
3400
3200
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

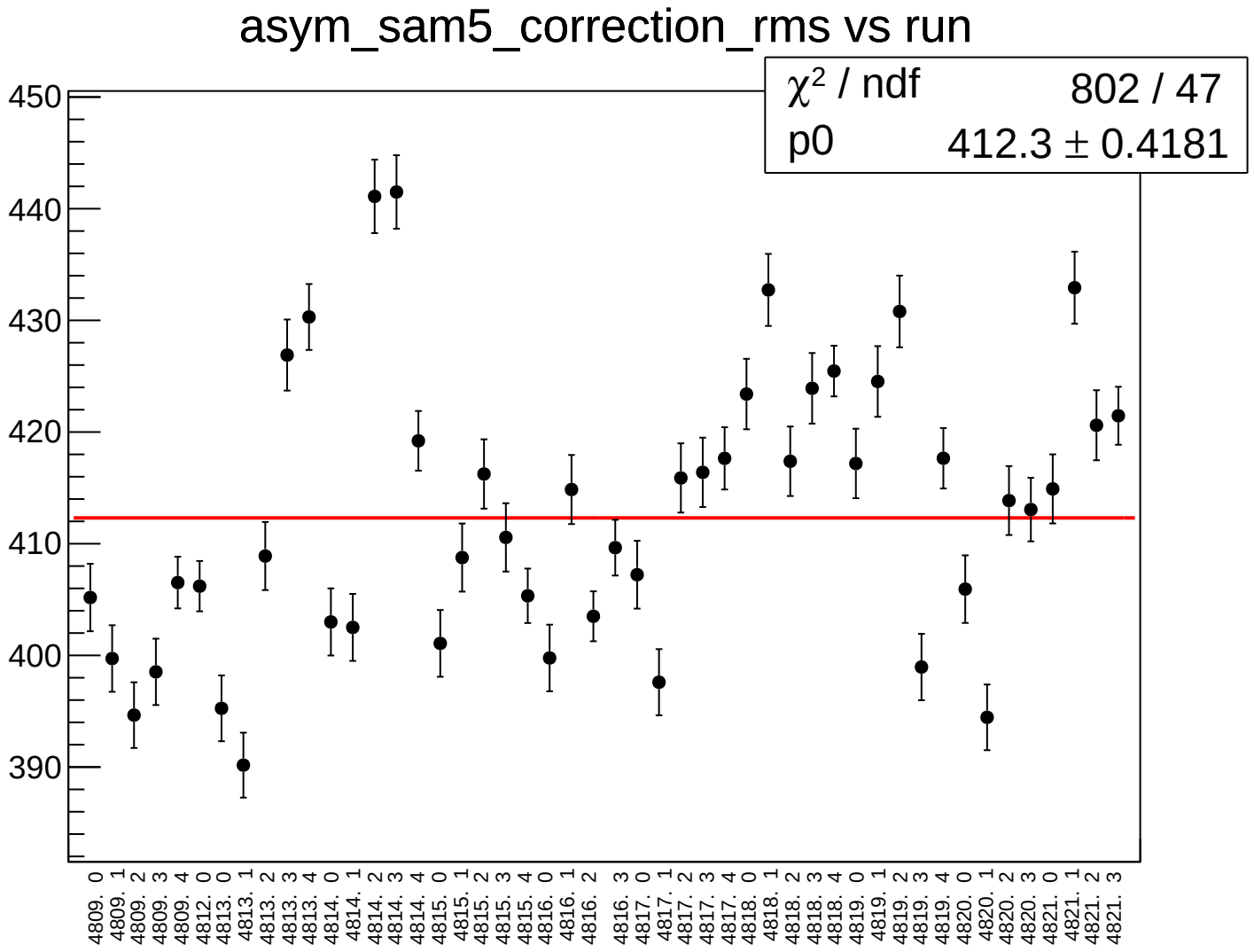

reg_asym_sam5_mean vs run
χ² / ndf 48.82 / 47
p0 −587.3 ± 320
6000
4000
2000
0
−2000
−4000
−6000
−8000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean −486.3
Std Dev 512.6
2
1
0
−1
−2

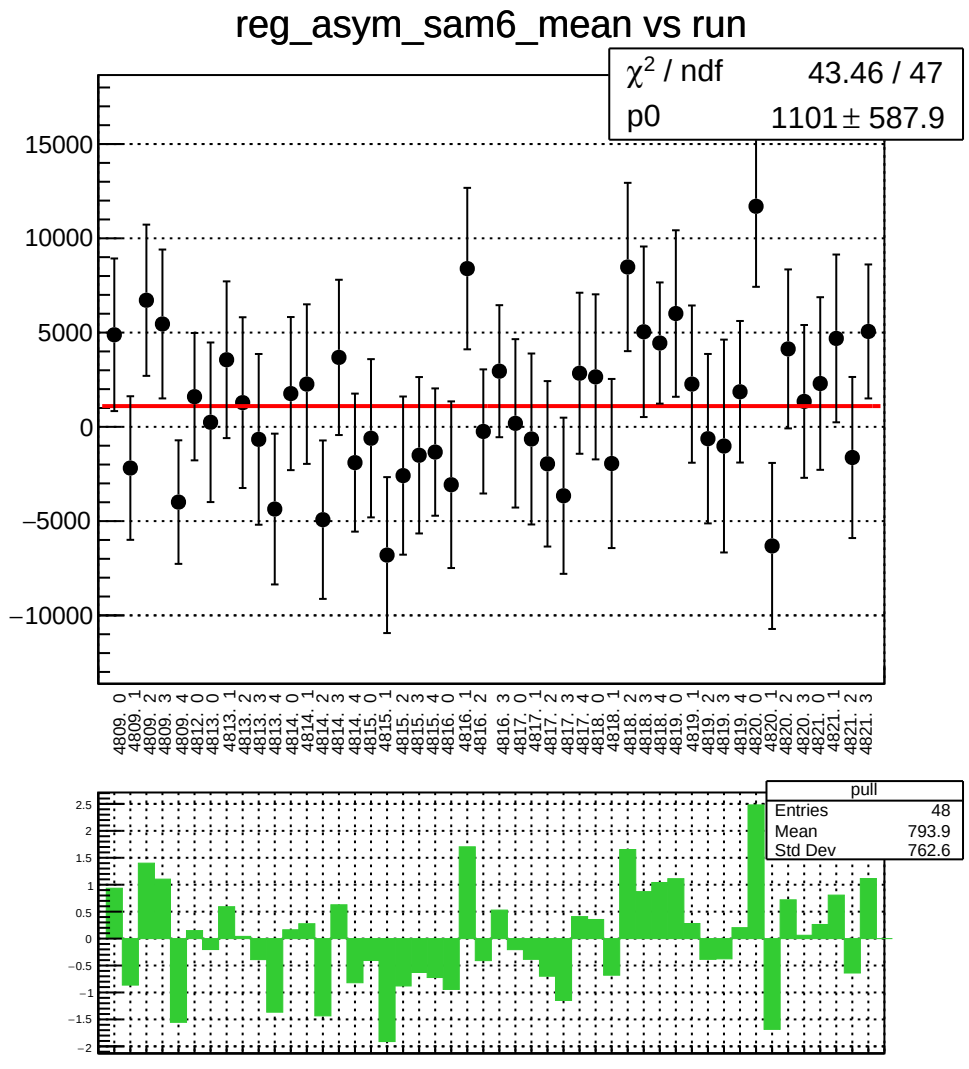

pull1D
Entries 48
Mean −0.009606
Std Dev 1.008
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

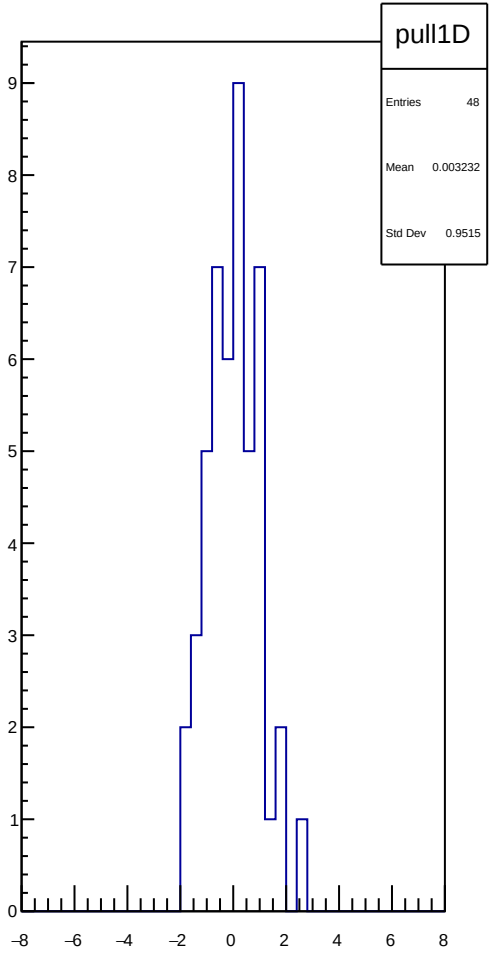

reg_asym_sam5_rms vs run
χ² / ndf 4316 / 47
p0 222.8 ± 0.2263
320
300
280
260
240
220
200
180
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

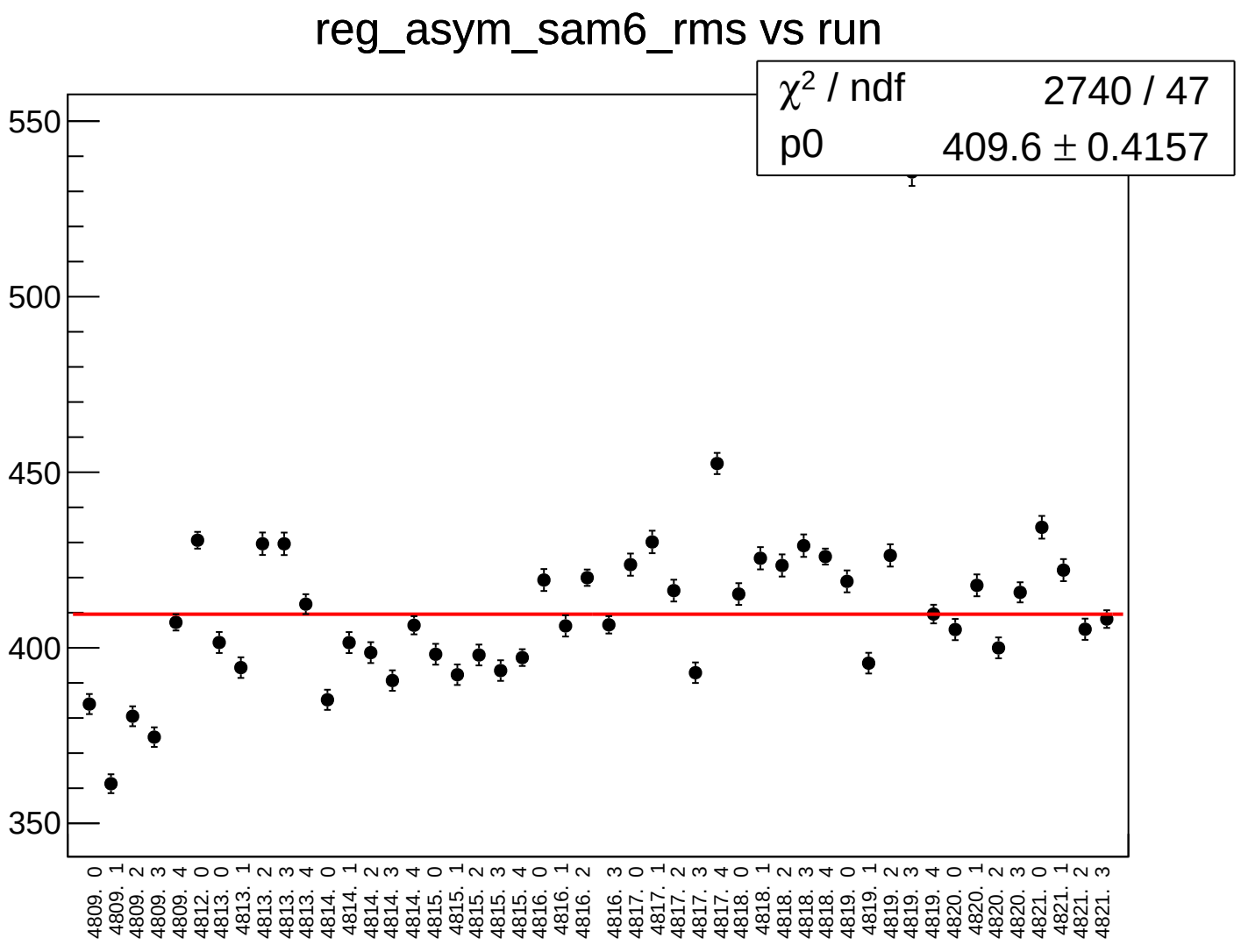

asym_sam5_correction_mean vs run
χ² / ndf 37.75 / 47
p0 −1622 ± 591.3
15000
10000
5000
0
−5000
−10000
−15000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 62.25
Std Dev 26.07
2
1
0
−1
−2

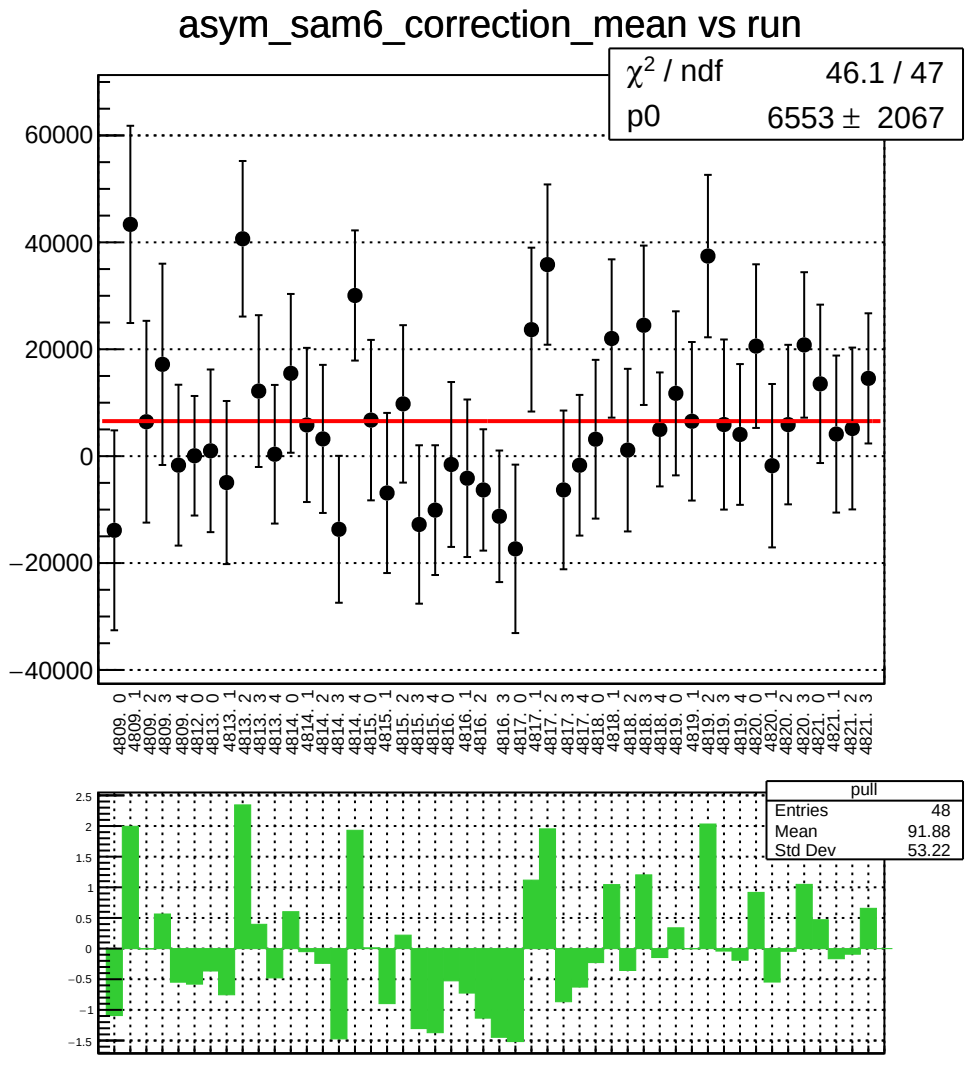

pull1D
Entries 48
Mean −0.01721
Std Dev 0.8867
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

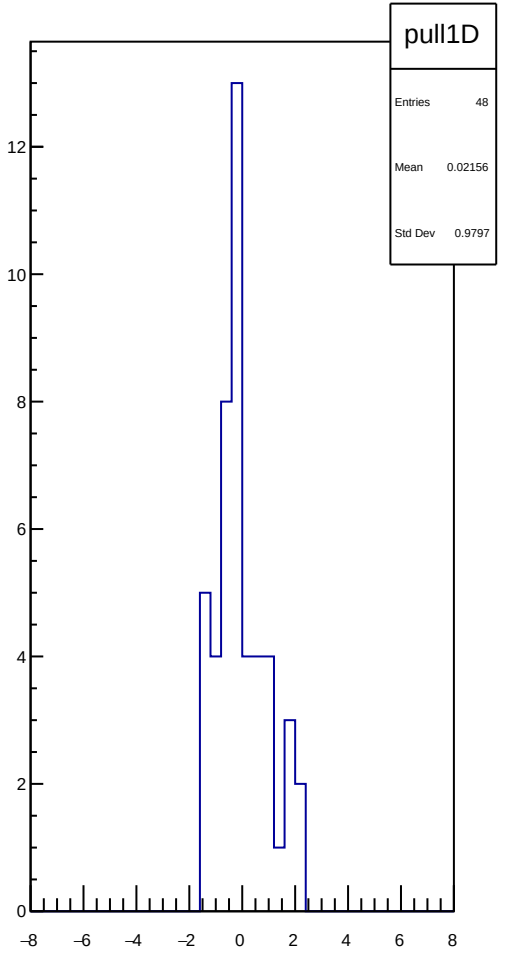

asym_sam5_correction_rms vs run
χ² / ndf 802 / 47
p0 412.3 ± 0.4181
450
440
430
420
410
400
390
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

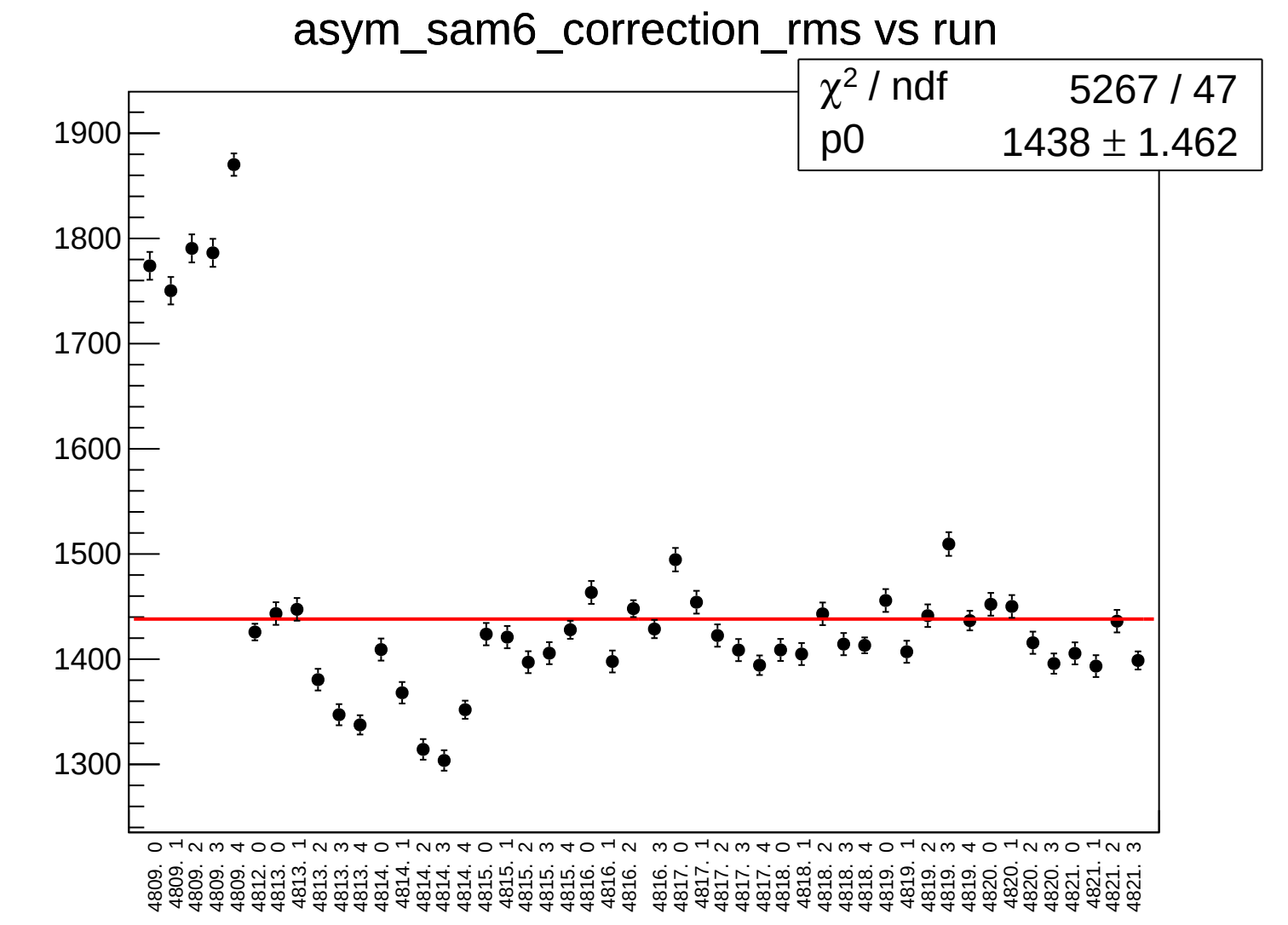

reg_asym_sam6_mean vs run
χ² / ndf 43.46 / 47
p0 1101 ± 587.9
15000
10000
5000
0
−5000
−10000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 793.9
Std Dev 762.6
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

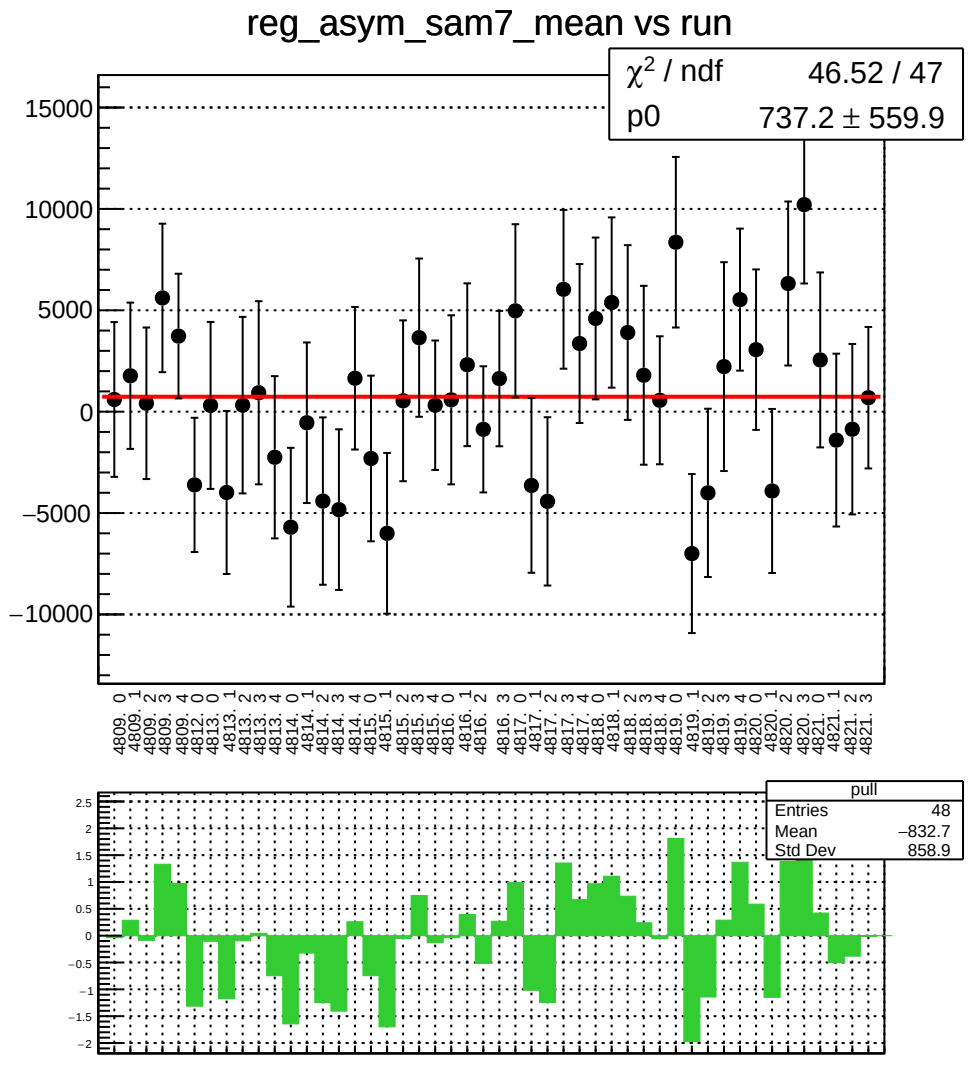

pull1D
Entries 48
Mean 0.003232
Std Dev 0.9515
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

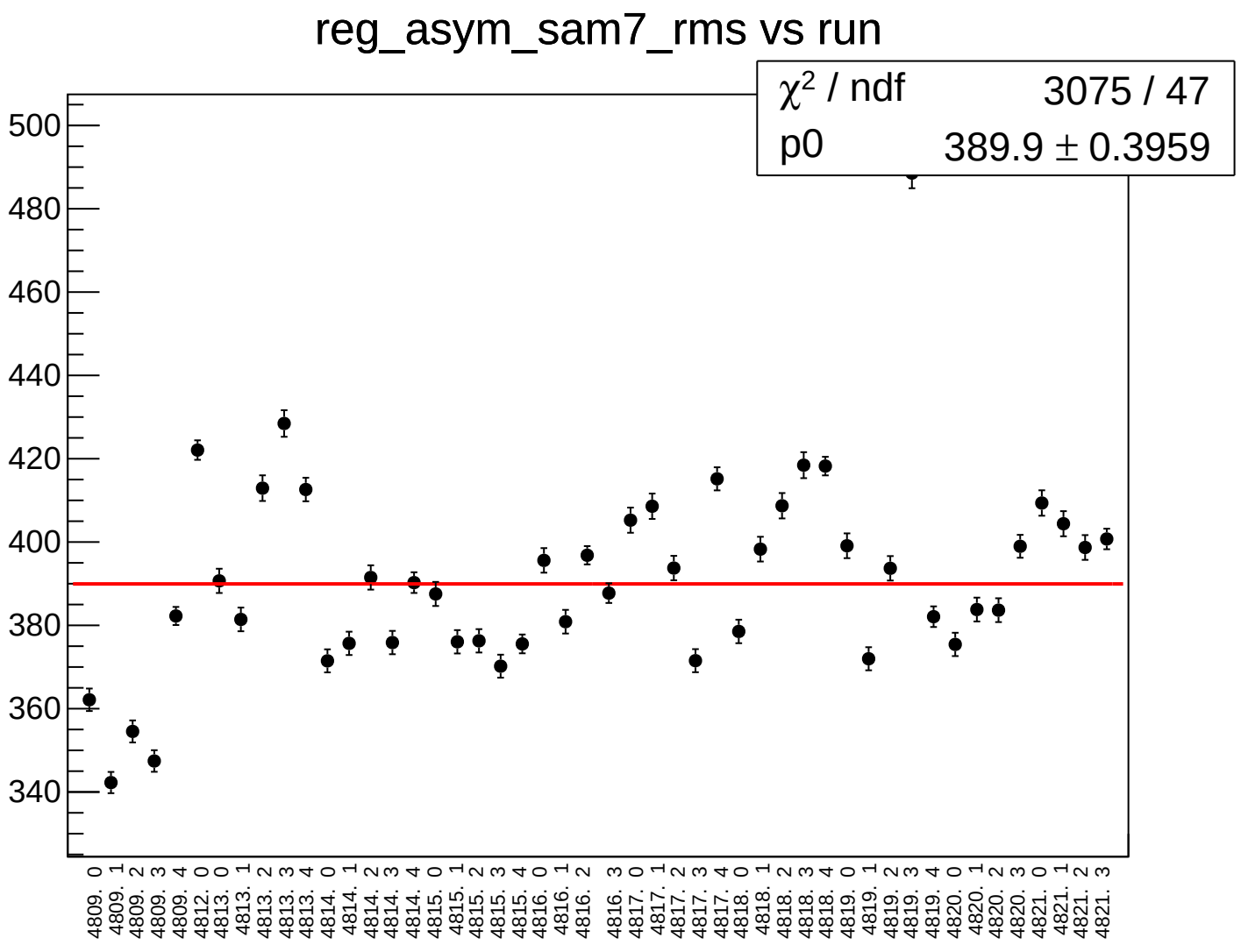

reg_asym_sam6_rms vs run
χ² / ndf 2740 / 47
p0 409.6 ± 0.4157
550
500
450
400
350
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

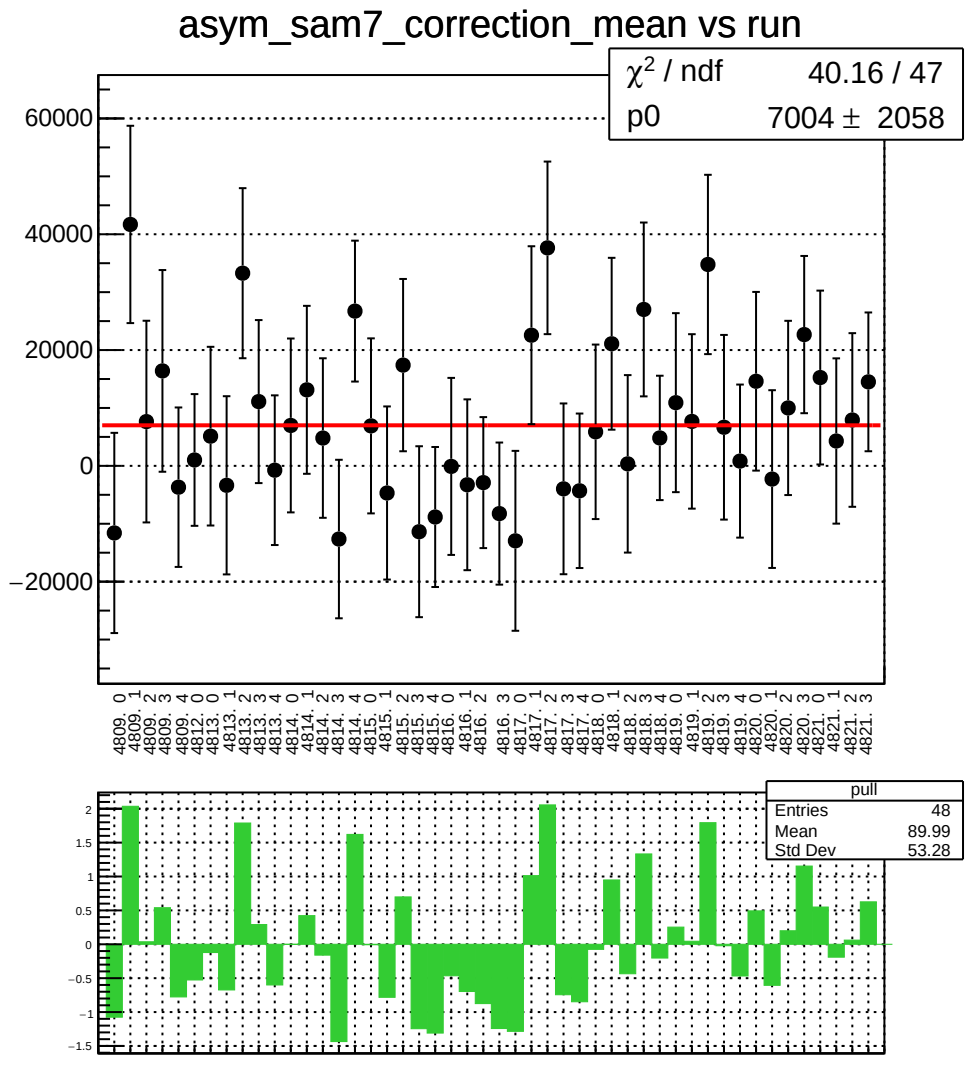

asym_sam6_correction_mean vs run
χ² / ndf 46.1 / 47
p0 6553 ± 2067
60000
40000
20000
0
−20000
−40000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 91.88
Std Dev 53.22
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 48
Mean 0.02156
Std Dev 0.9797
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam6_correction_rms vs run
χ² / ndf 5267 / 47
p0 1438 ± 1.462
1900
1800
1700
1600
1500
1400
1300
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3


reg_asym_sam7_mean vs run
χ² / ndf 46.52 / 47
p0 737.2 ± 559.9
15000
10000
5000
0
−5000
−10000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean −832.7
Std Dev 858.9
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 48
Mean −0.003731
Std Dev 0.9845
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam7_rms vs run
χ² / ndf 3075 / 47
p0 389.9 ± 0.3959
500
480
460
440
420
400
380
360
340
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3


asym_sam7_correction_mean vs run
χ² / ndf 40.16 / 47
p0 7004 ± 2058
60000
40000
20000
0
−20000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
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4814. 2
4814. 3
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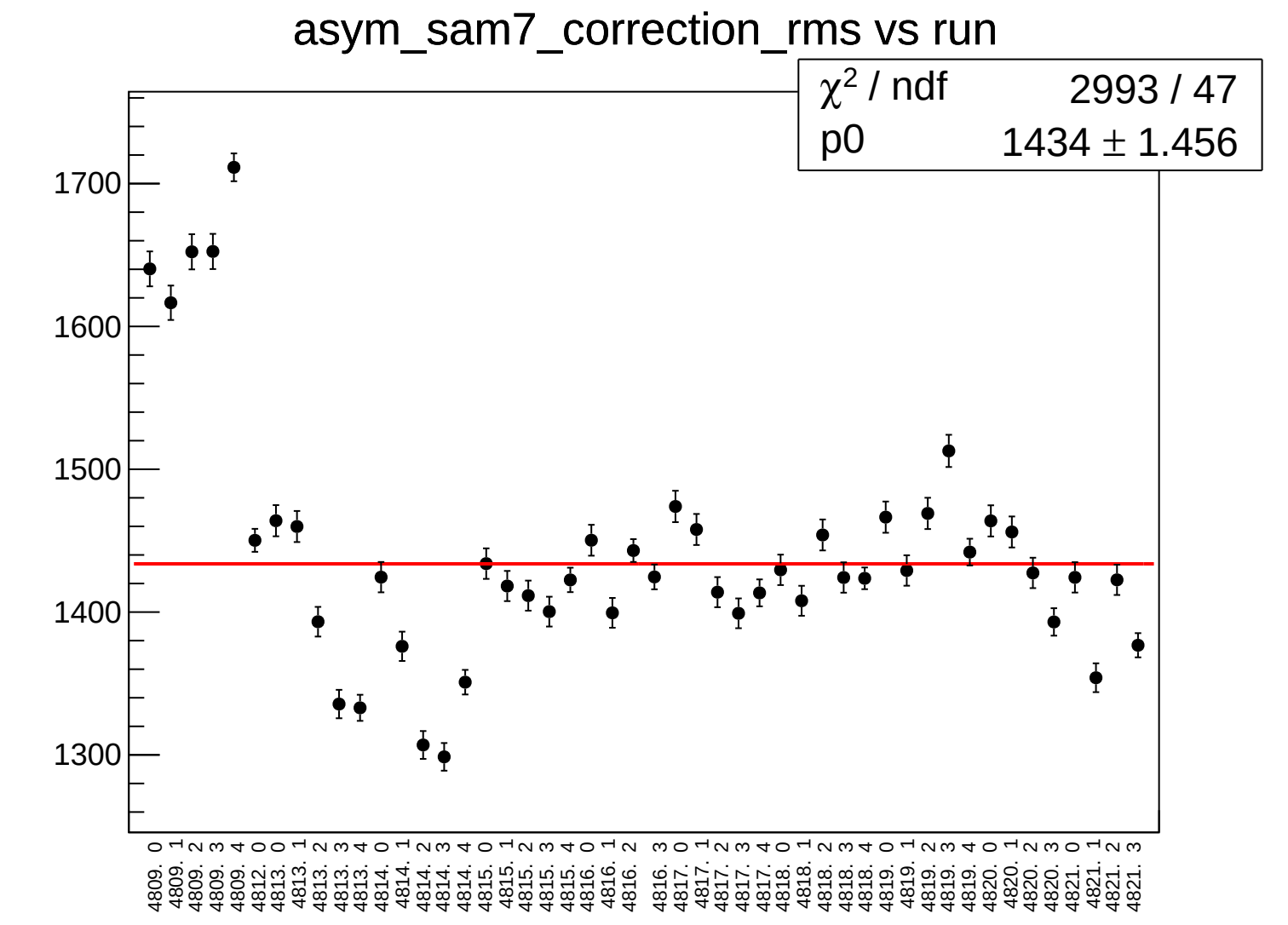
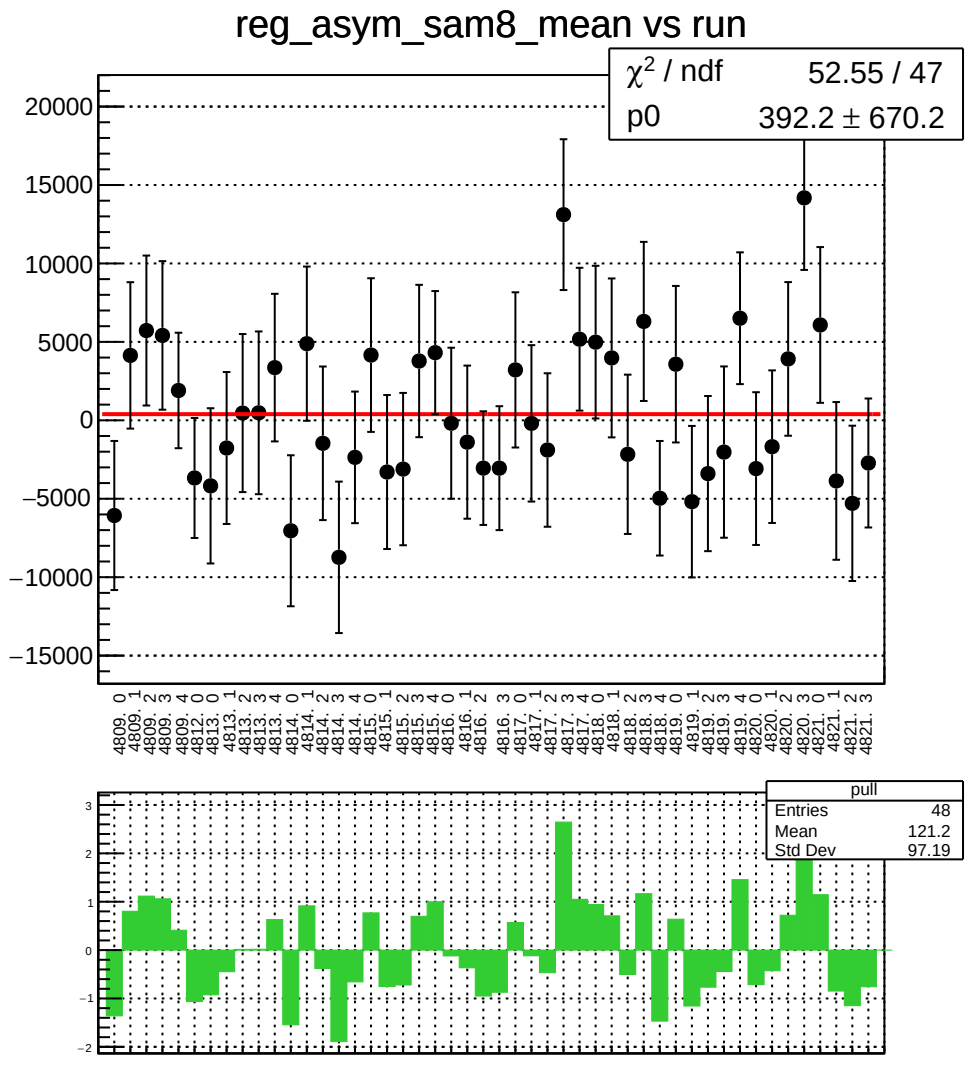
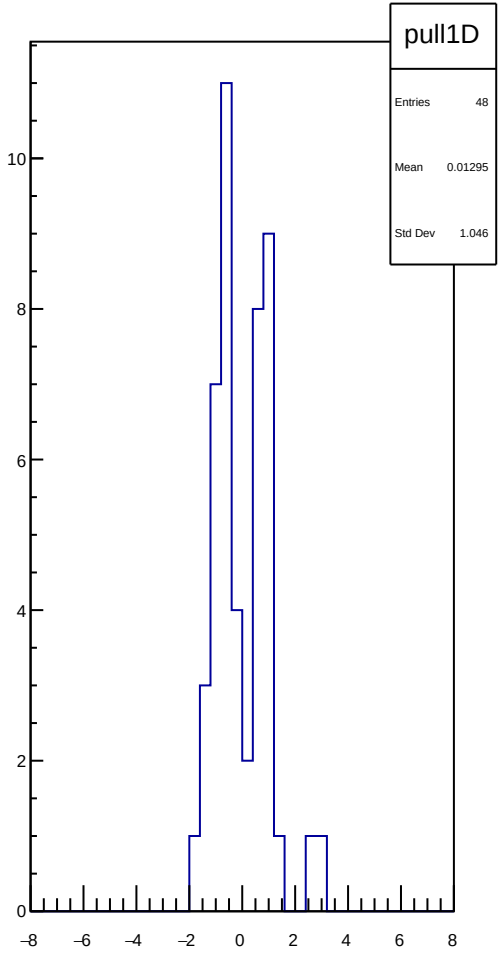
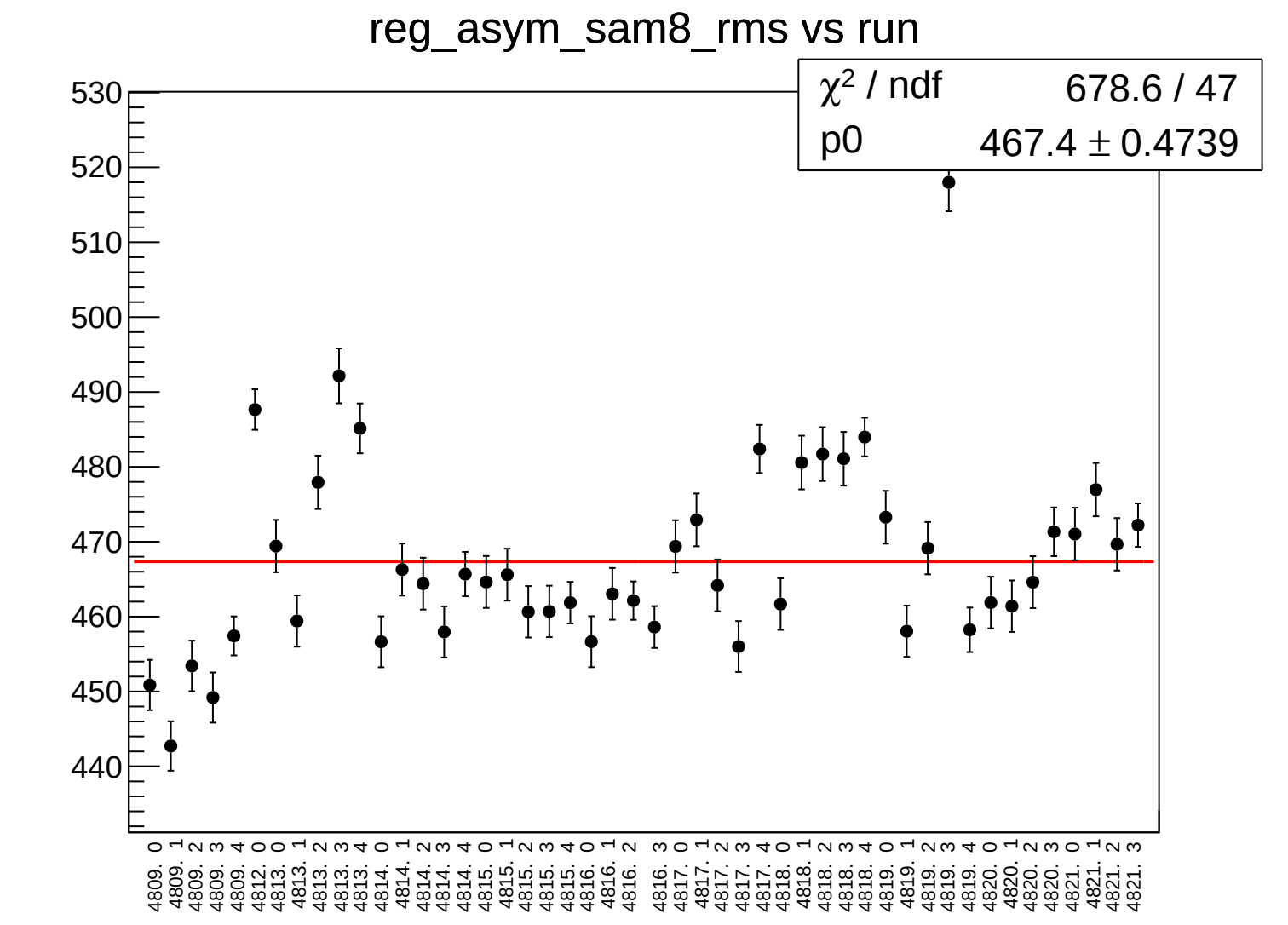
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 89.99
Std Dev 53.28
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 48
Mean 0.02288
Std Dev 0.9144
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam7_correction_rms vs run
χ² / ndf 2993 / 47
p0 1434 ± 1.456
1700
1600
1500
1400
1300
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3


reg_asym_sam8_mean vs run
χ² / ndf 52.55 / 47
p0 392.2 ± 670.2
20000
15000
10000
5000
0
−5000
−10000
−15000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 121.2
Std Dev 97.19
3
2
1
0
−1
−2


pull1D
Entries 48
Mean 0.01295
Std Dev 1.046
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam8_rms vs run
χ² / ndf 678.6 / 47
p0 467.4 ± 0.4739
530
520
510
500
490
480
470
460
450
440
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
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4820. 0
4820. 1
4820. 2
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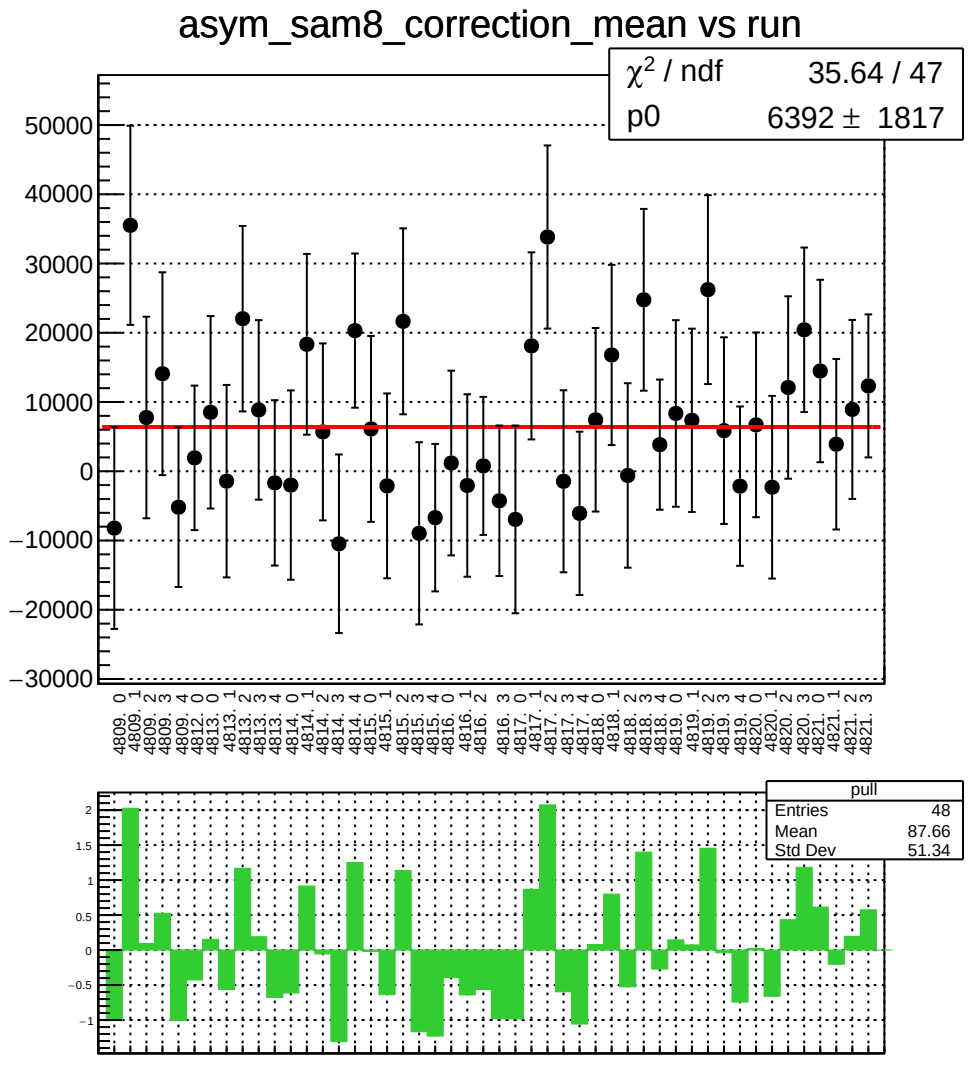
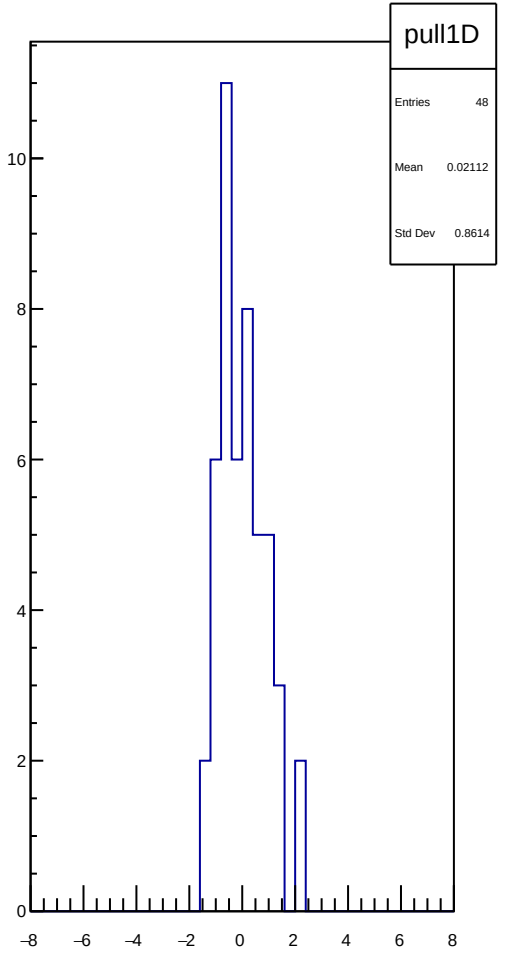
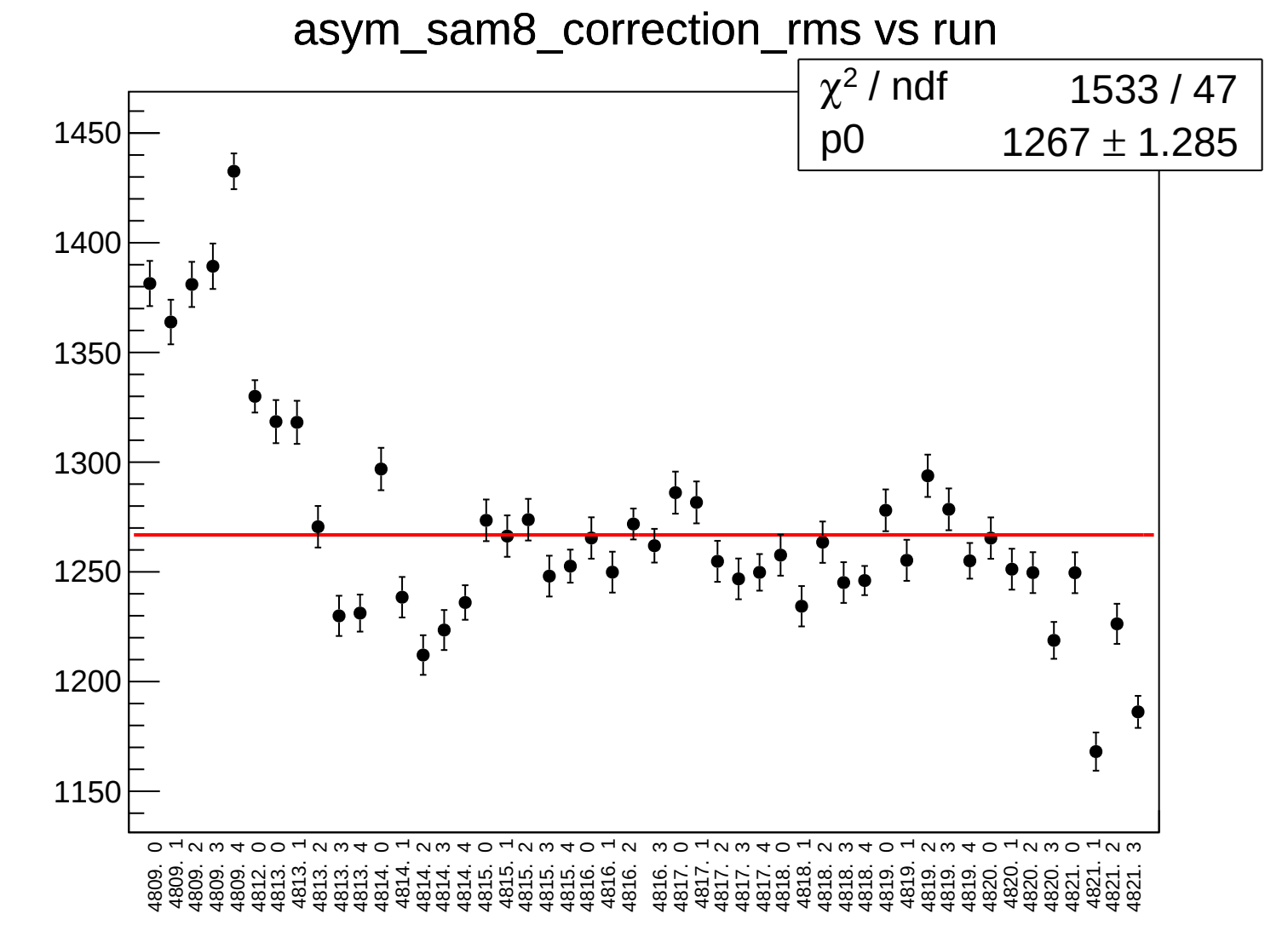
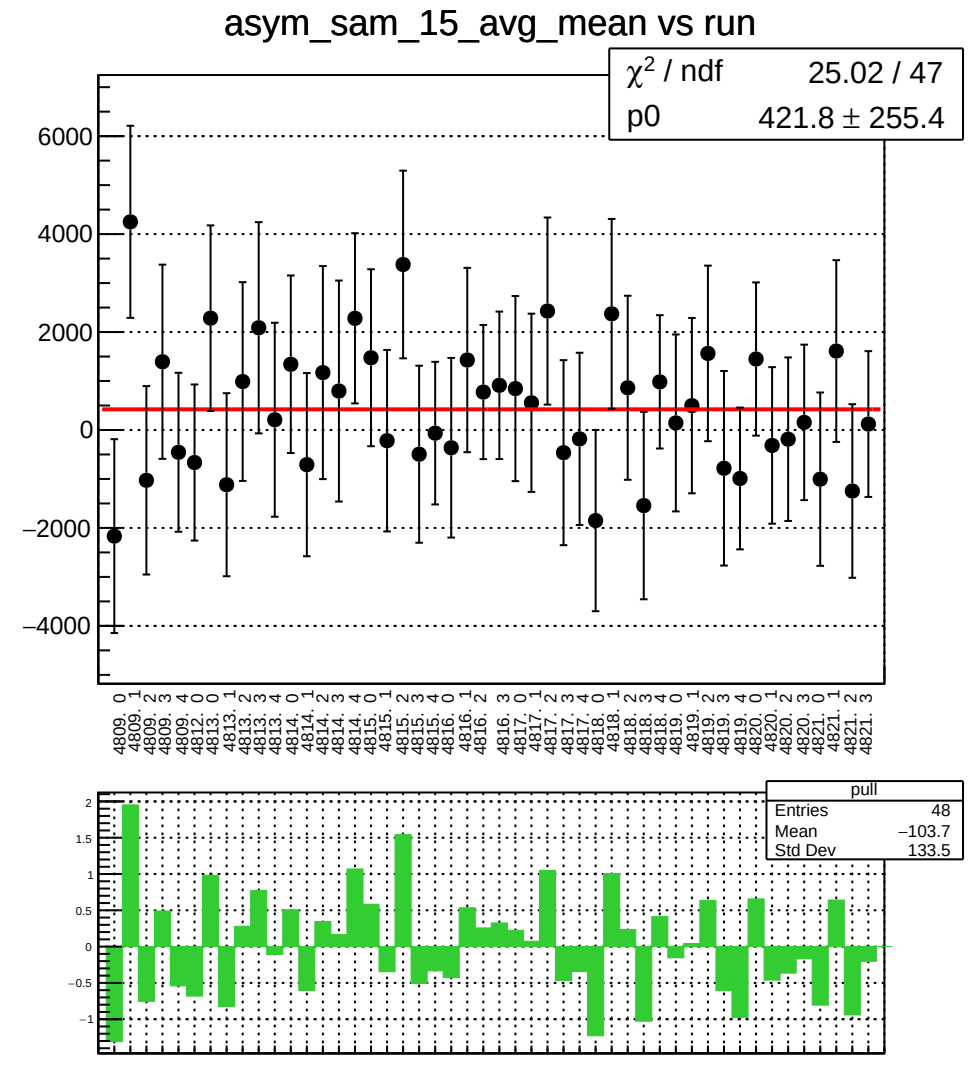
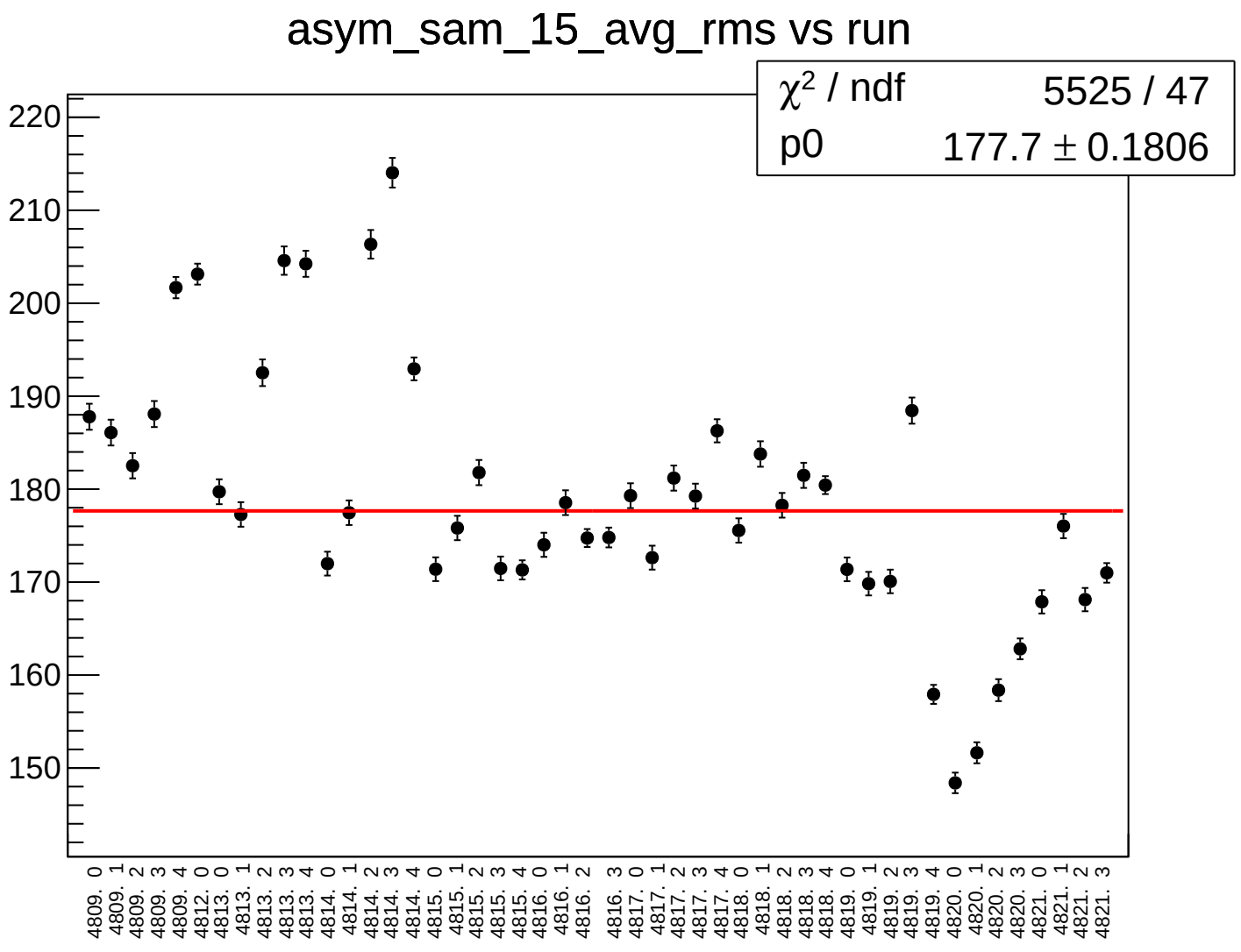
4821. 0
4821. 1
4821. 2
4821. 3

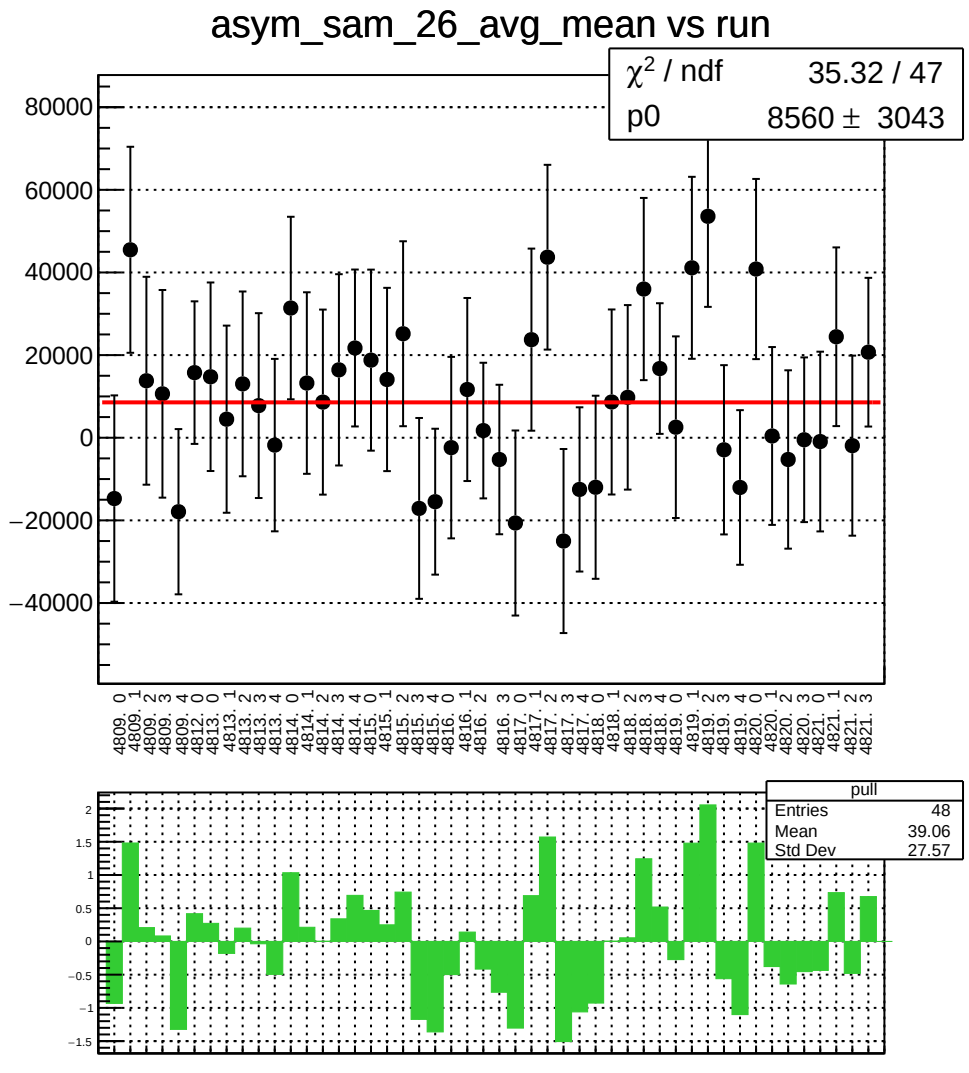

asym_sam8_correction_mean vs run
χ² / ndf 35.64 / 47
p0 6392 ± 1817
pull
Entries 48
Mean 87.66
Std Dev 51.34

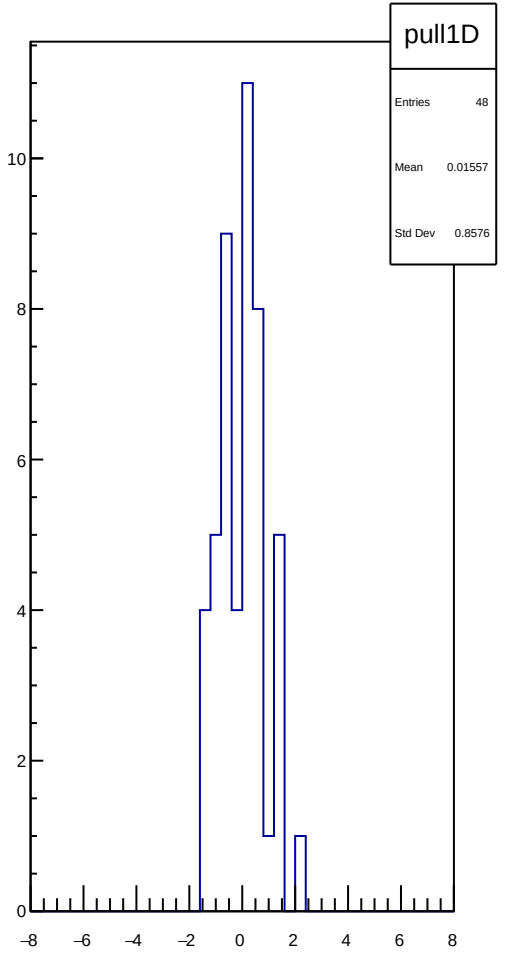

pull1D
Entries 48
Mean 0.02112
Std Dev 0.8614

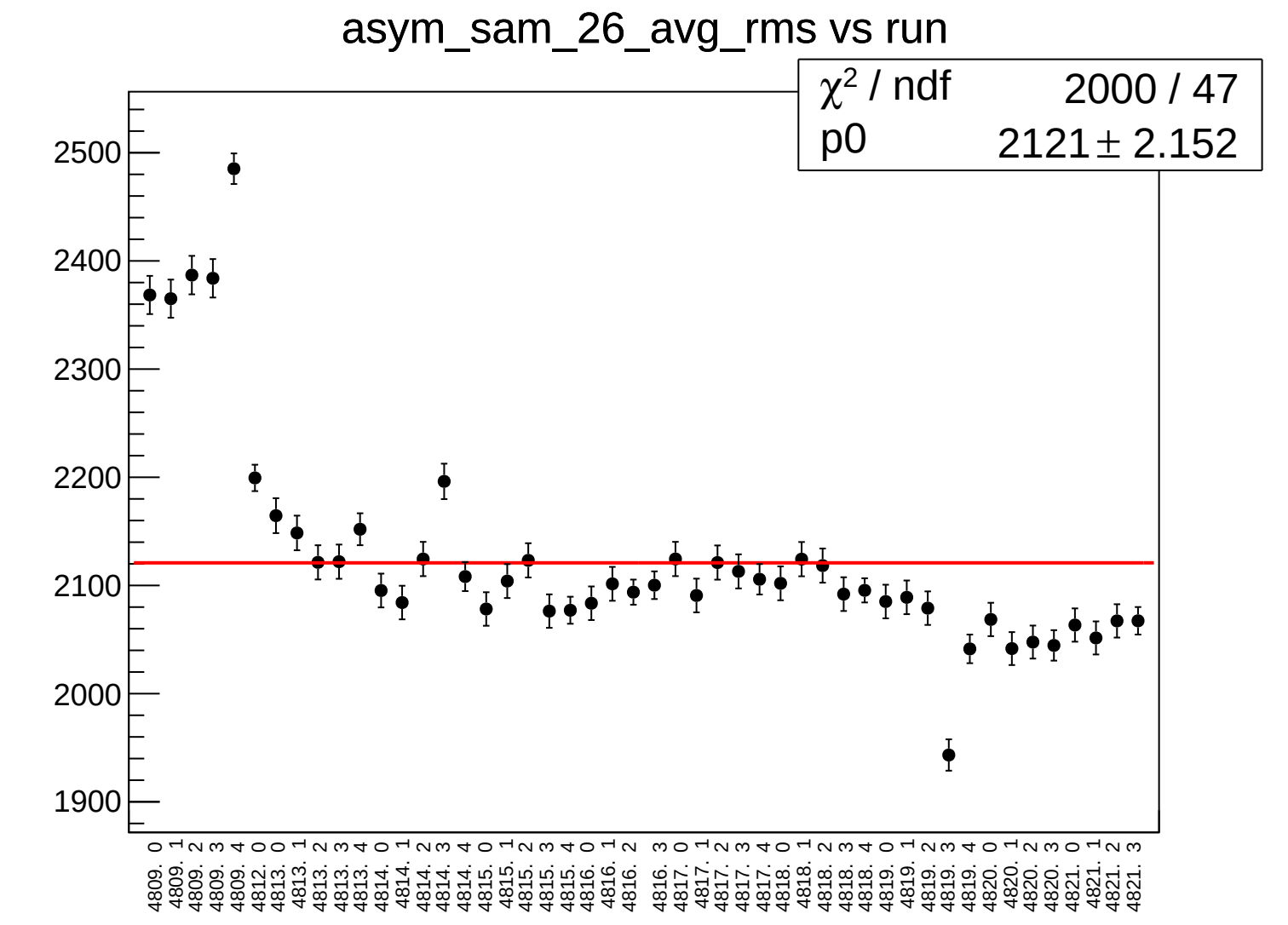

asym_sam8_correction_rms vs run
χ² / ndf 1533 / 47
p0 1267 ± 1.285
1450
1400
1350
1300
1250
1200
1150
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

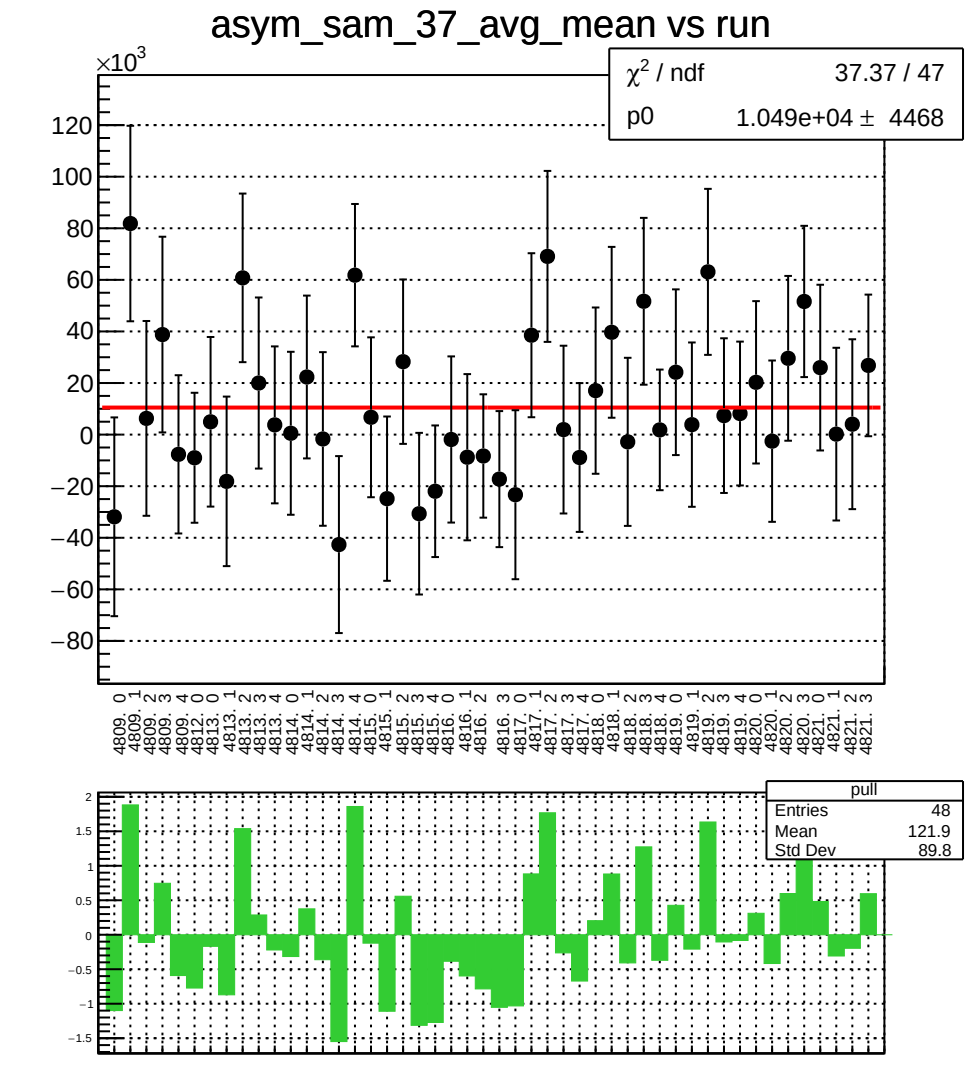

asym_sam_15_avg_mean vs run
χ² / ndf 25.02 / 47
p0 421.8 ± 255.4
6000
4000
2000
0
−2000
−4000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean −103.7
Std Dev 133.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 48
Mean 0.01276
Std Dev 0.7219
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

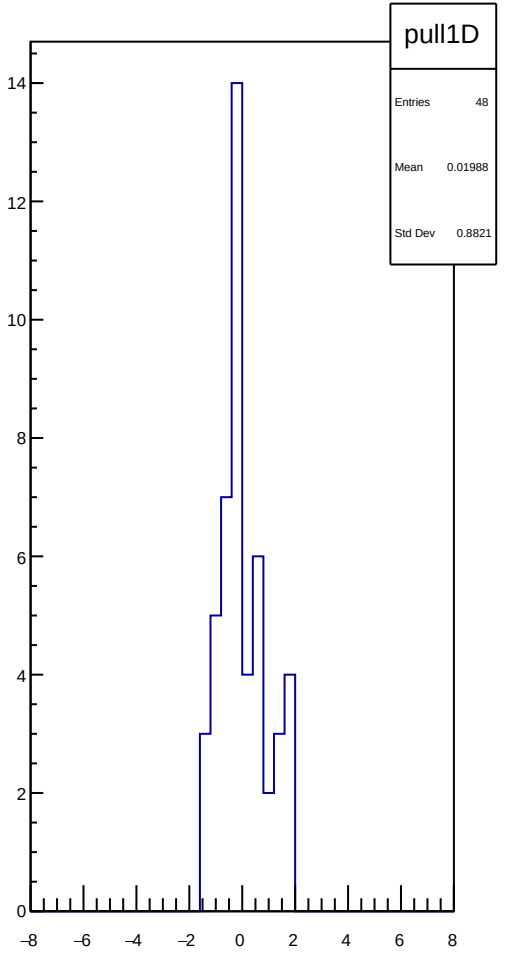

asym_sam_15_avg_rms vs run
χ² / ndf 5525 / 47
p0 177.7 ± 0.1806
220
210
200
190
180
170
160
150
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

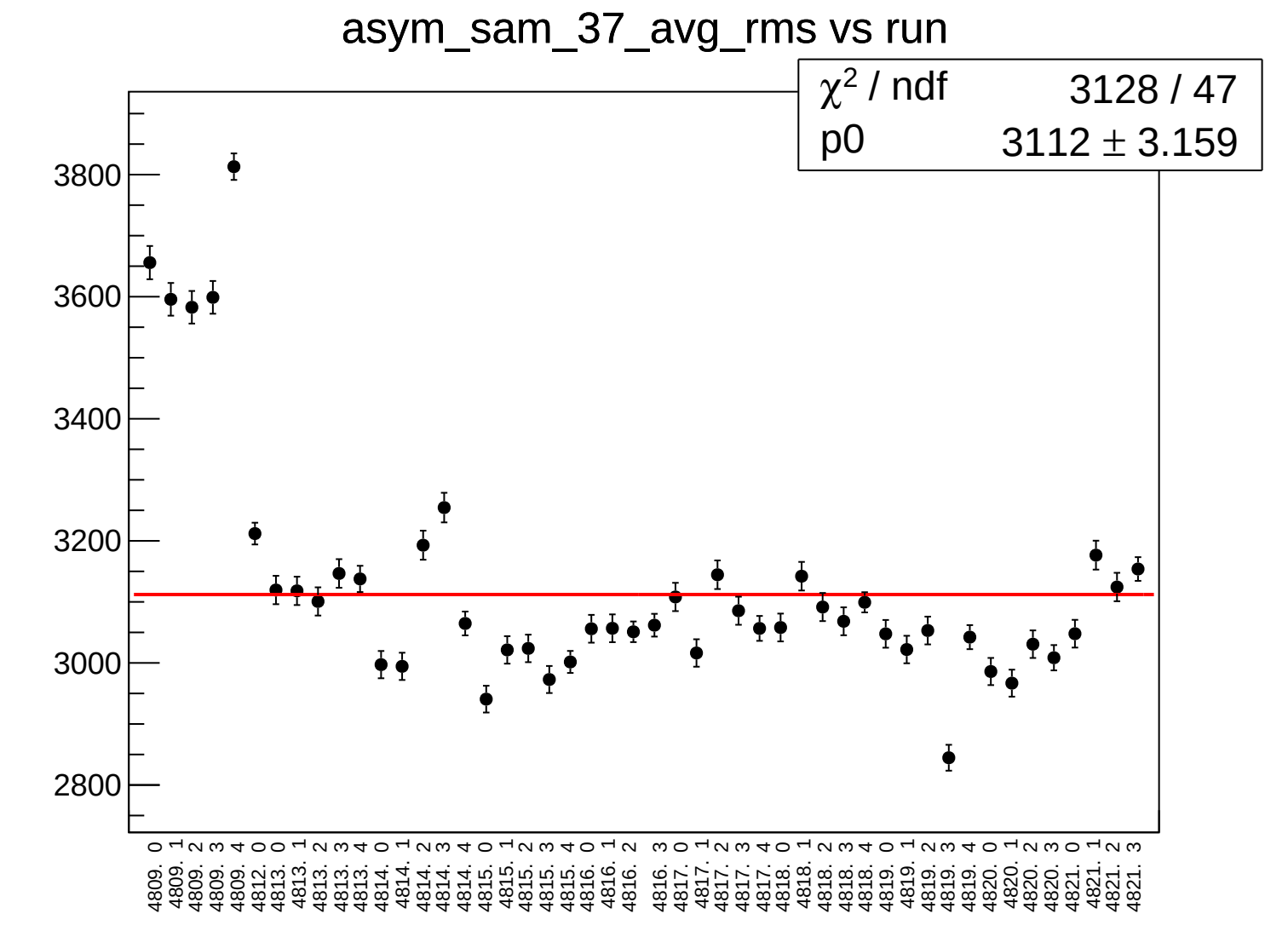

asym_sam_26_avg_mean vs run
χ² / ndf 35.32 / 47
p0 8560 ± 3043
80000
60000
40000
20000
0
−20000
−40000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 39.06
Std Dev 27.57
2
1.5
1
0.5
0
−0.5
−1
−1.5

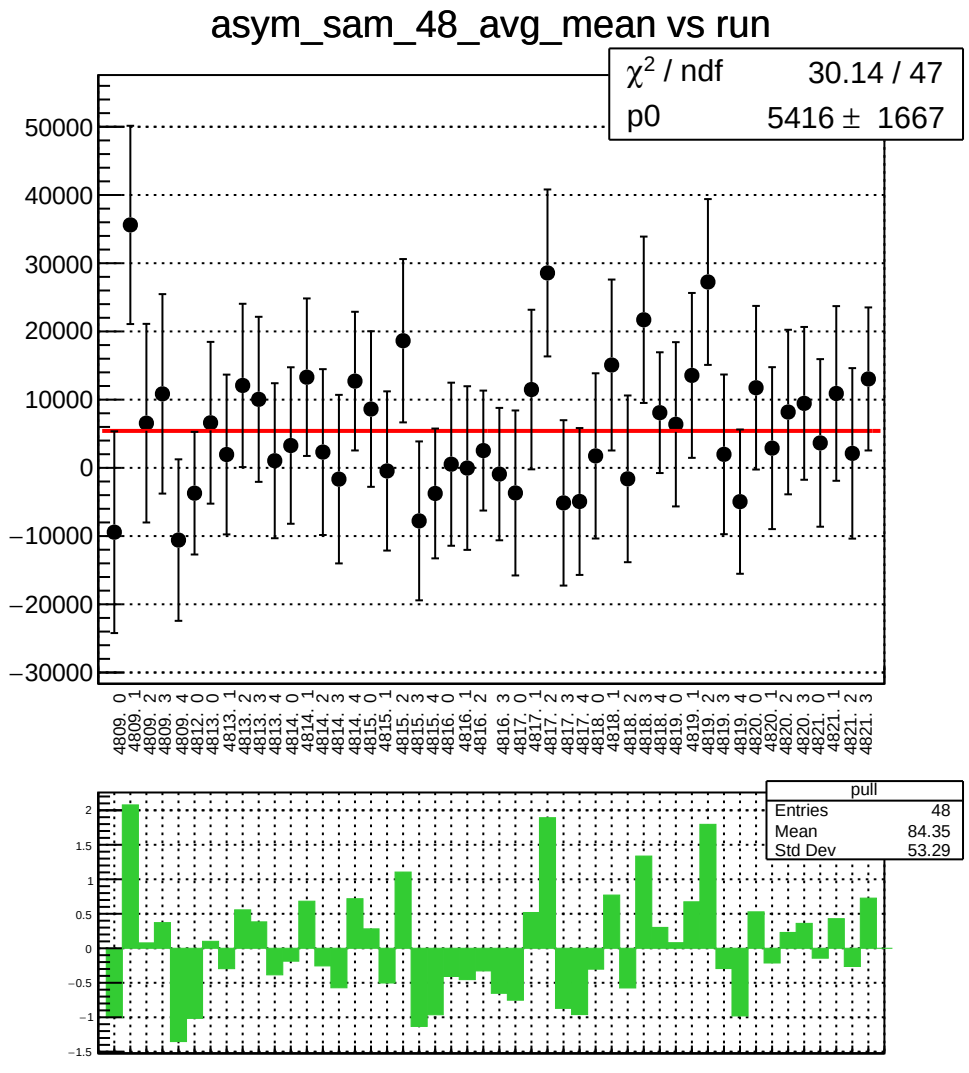

pull1D
Entries 48
Mean 0.01557
Std Dev 0.8576
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

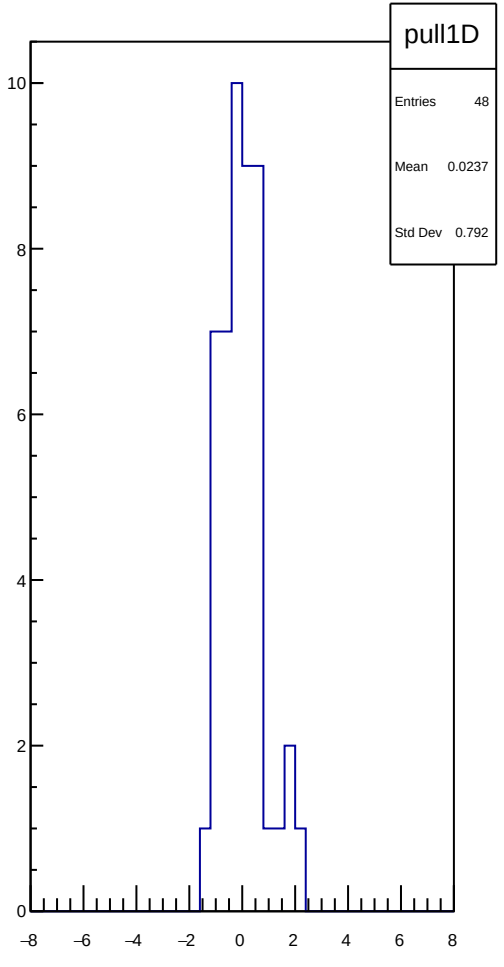

asym_sam_26_avg_rms vs run
χ² / ndf 2000 / 47
p0 2121 ± 2.152
2500
2400
2300
2200
2100
2000
1900
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

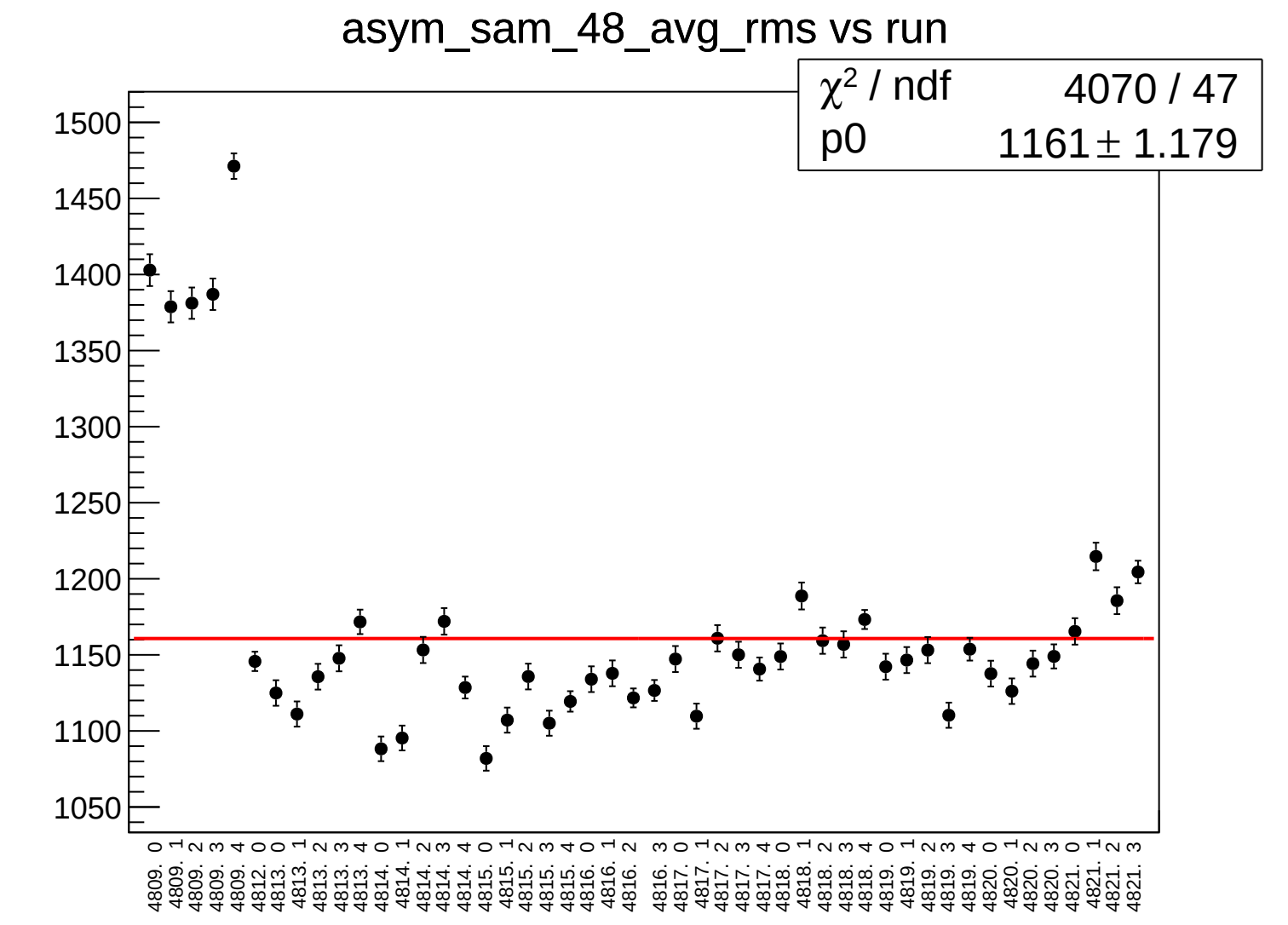

asym_sam_37_avg_mean vs run
×10^3
χ² / ndf 37.37 / 47
p0 1.049e+04 ± 4468
pull
Entries 48
Mean 121.9
Std Dev 89.8

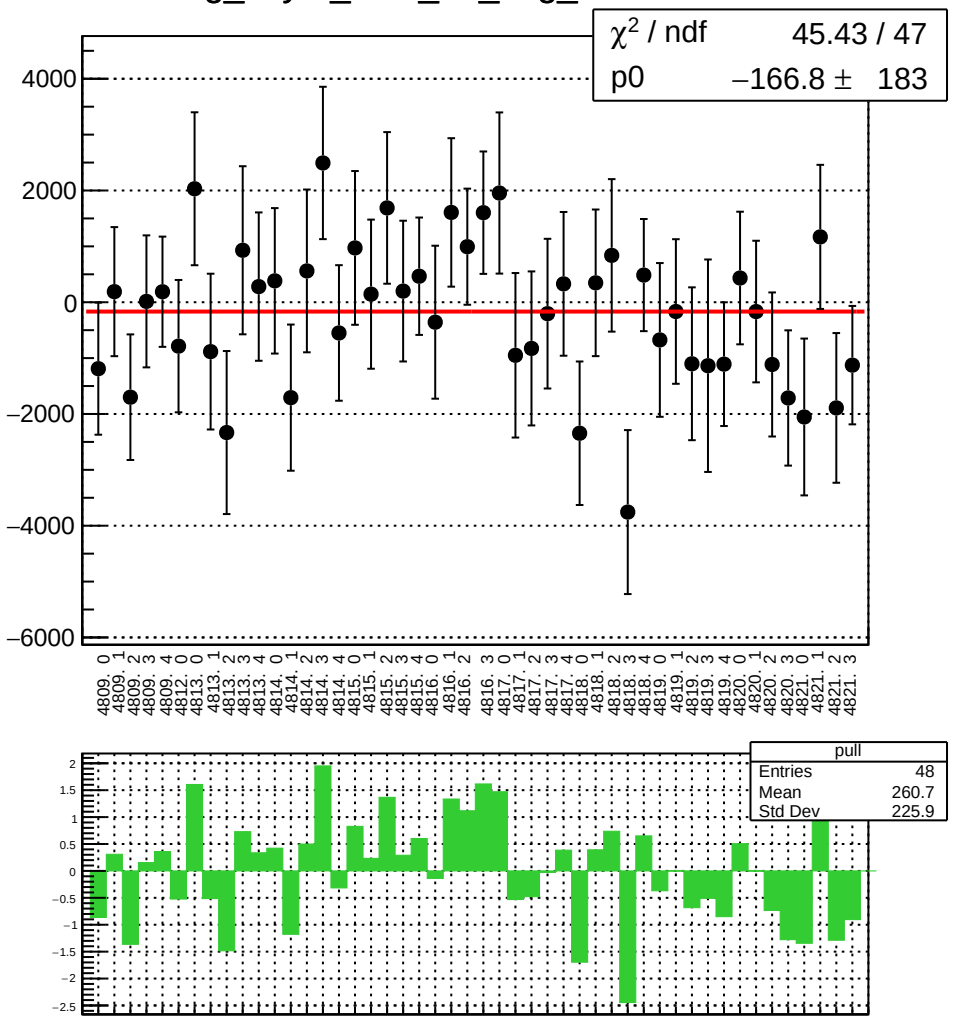

pull1D
Entries 48
Mean 0.01988
Std Dev 0.8821

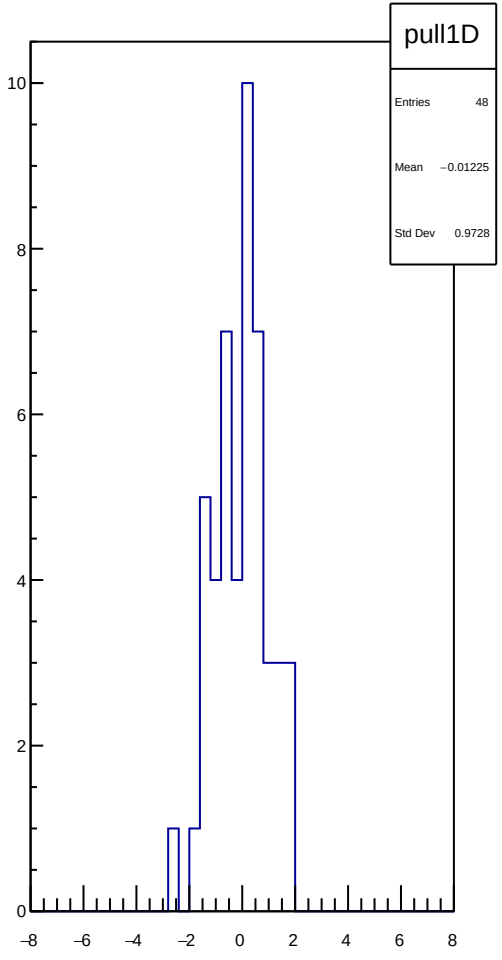

asym_sam_37_avg_rms vs run
χ² / ndf 3128 / 47
p0 3112 ± 3.159
3800
3600
3400
3200
3000
2800
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

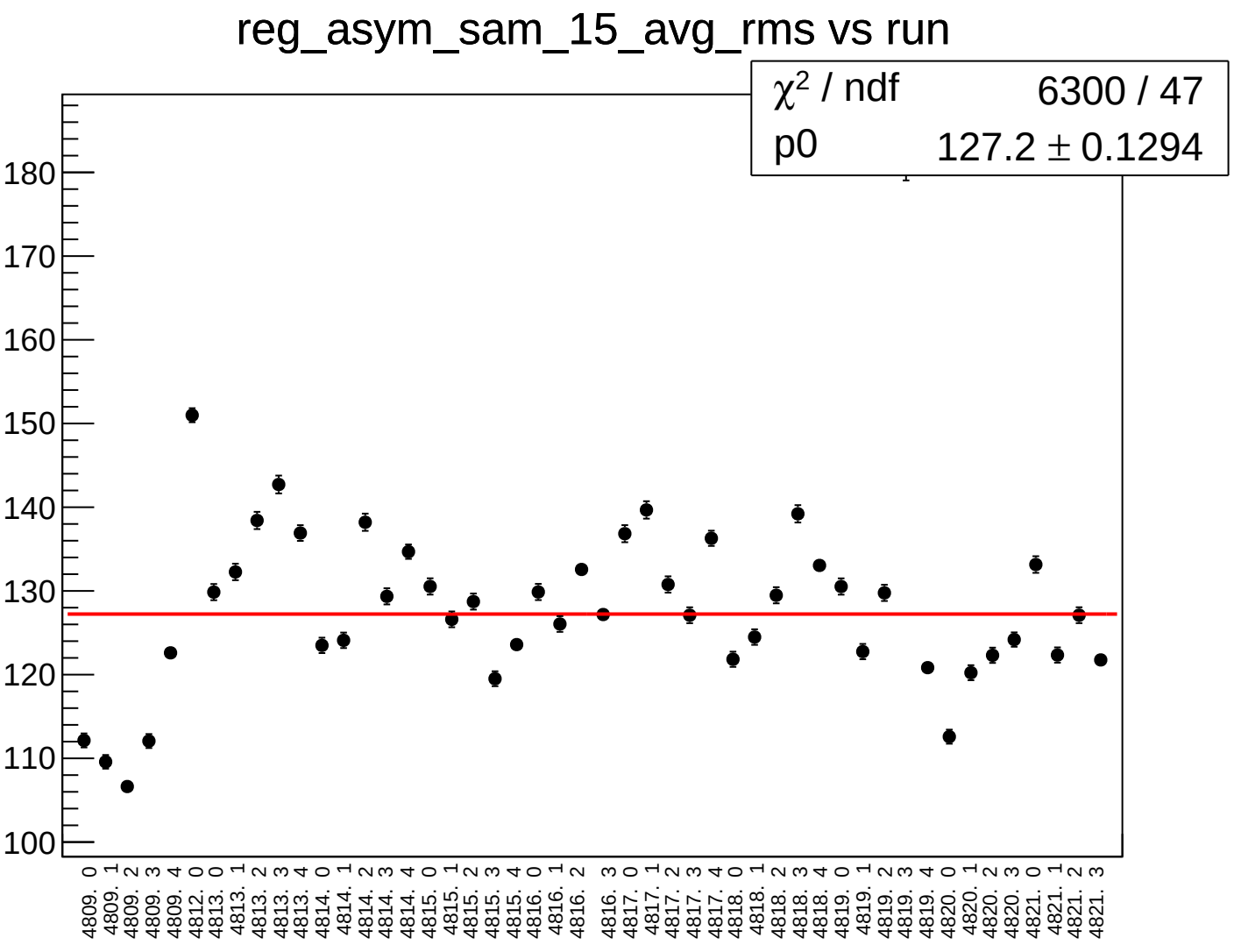

asym_sam_48_avg_mean vs run
χ² / ndf 30.14 / 47
p0 5416 ± 1667
pull
Entries 48
Mean 84.35
Std Dev 53.29


pull1D
Entries 48
Mean 0.0237
Std Dev 0.792


asym_sam_48_avg_rms vs run
χ² / ndf 4070 / 47
p0 1161 ± 1.179
1500
1450
1400
1350
1300
1250
1200
1150
1100
1050
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3


reg_asym_sam_15_avg_mean vs run
χ² / ndf 45.43 / 47
p0 −166.8 ± 183
4000
2000
0
−2000
−4000
−6000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 260.7
Std Dev 225.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 48
Mean −0.01225
Std Dev 0.9728
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_15_avg_rms vs run
χ² / ndf 6300 / 47
p0 127.2 ± 0.1294
180
170
160
150
140
130
120
110
100
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
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4821. 0
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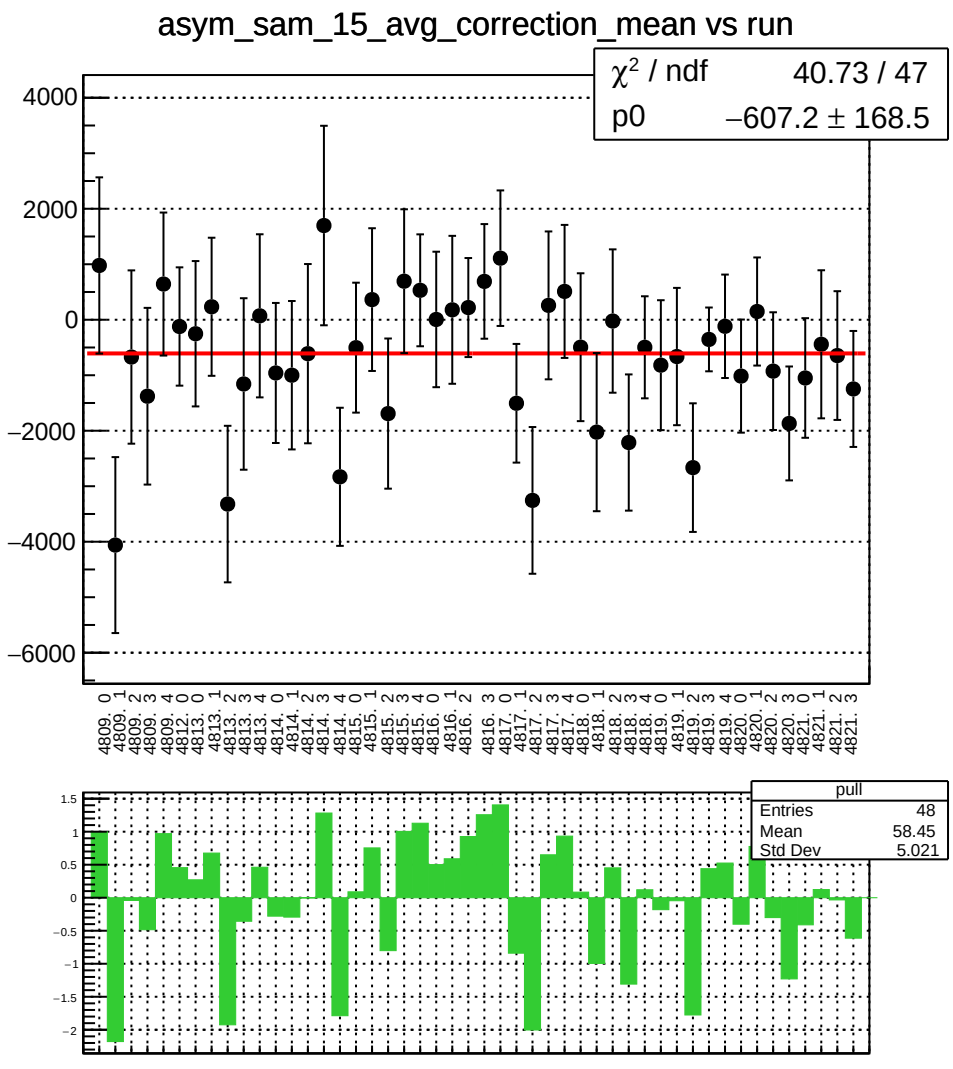
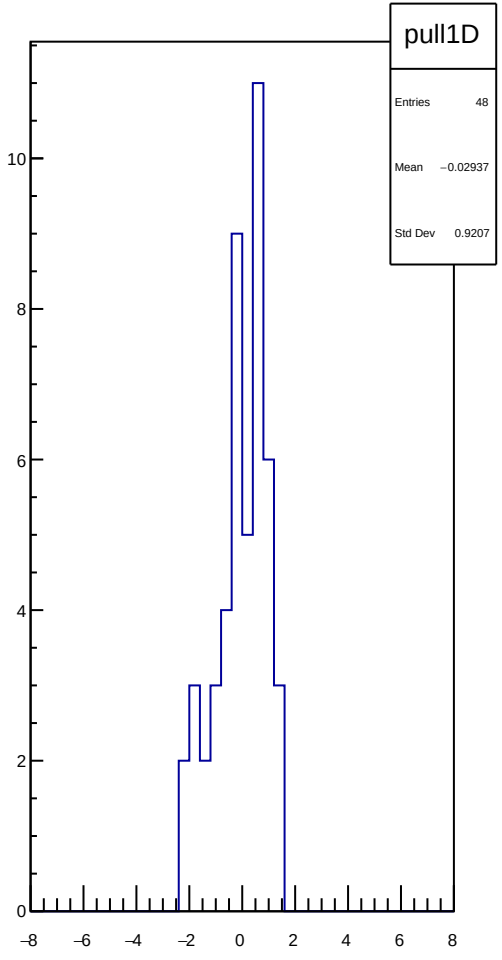
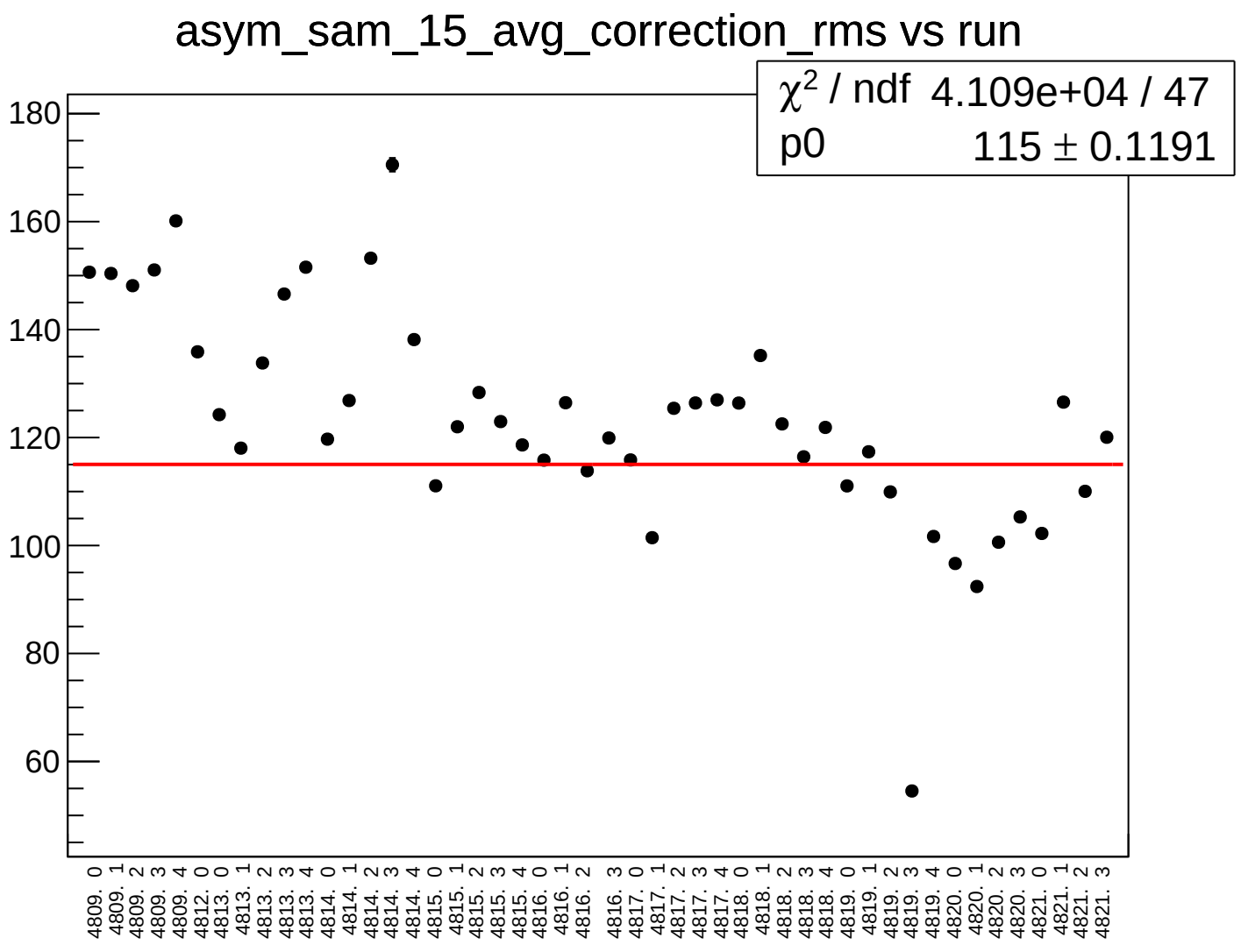
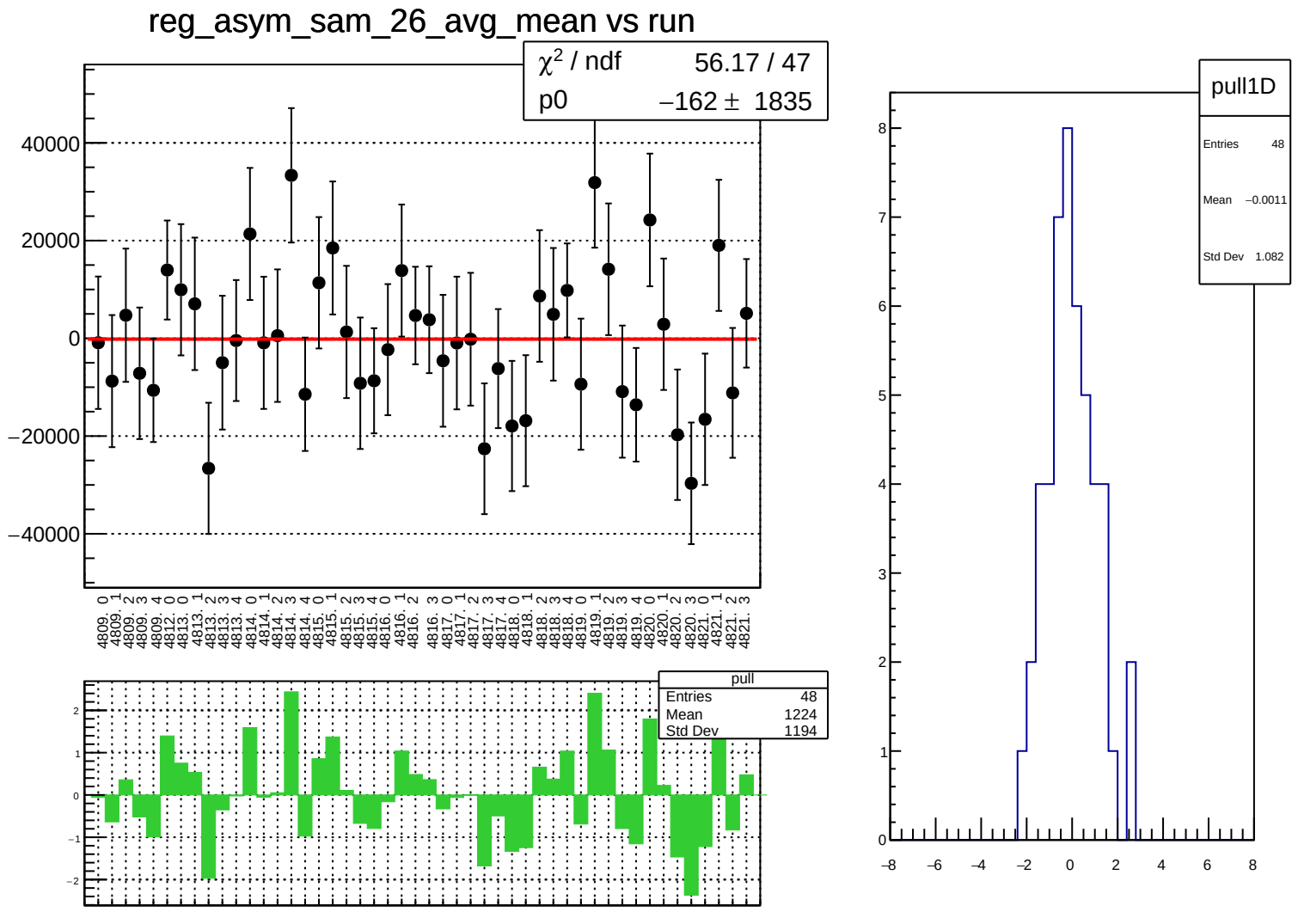
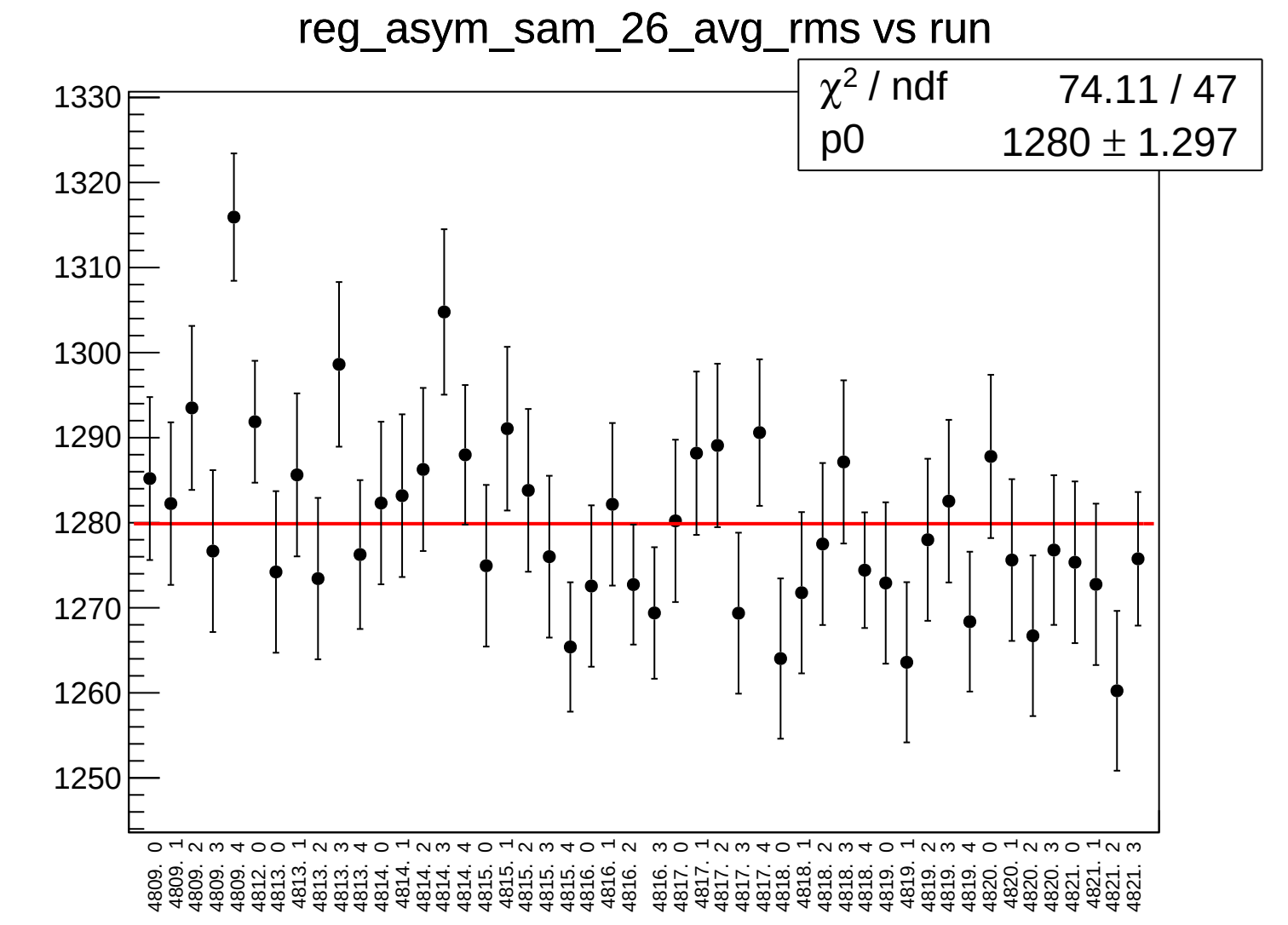
4821. 2
4821. 3

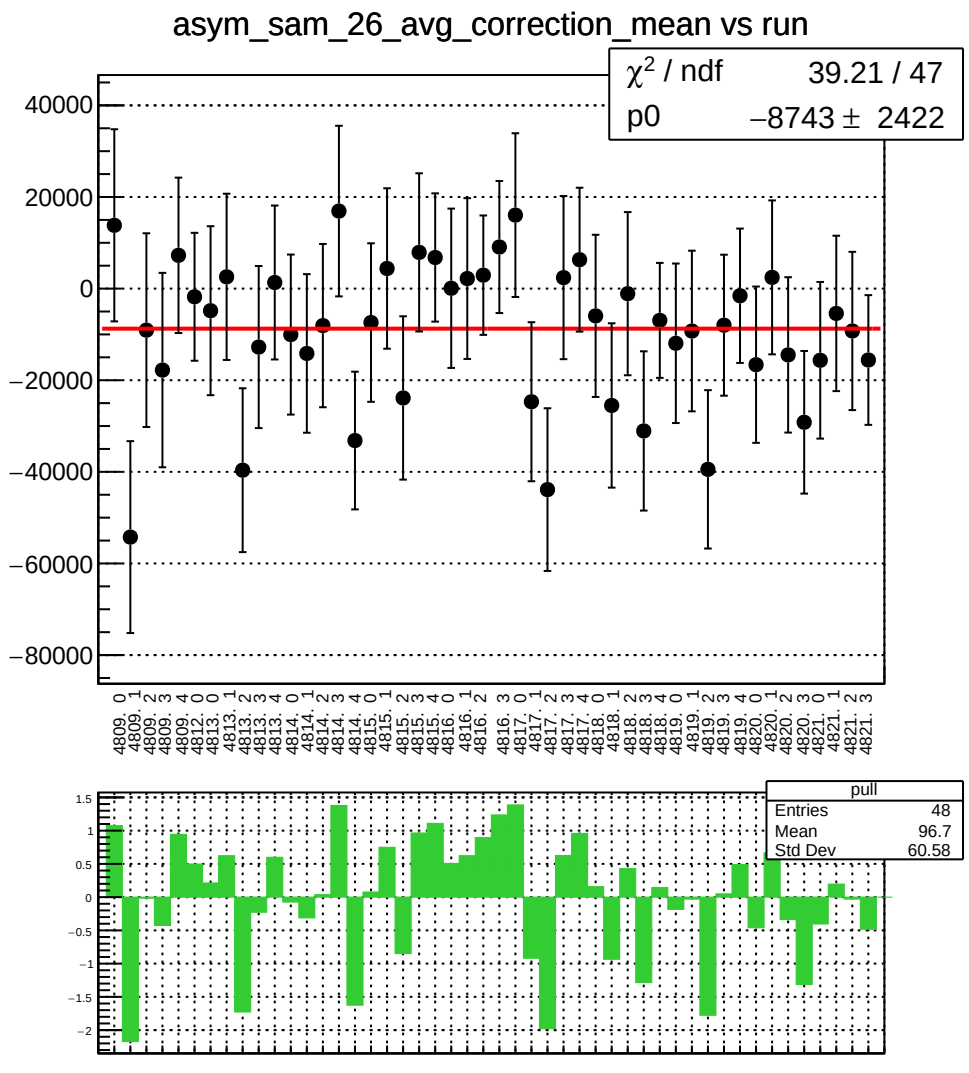

asym_sam_15_avg_correction_mean vs run
χ² / ndf 40.73 / 47
p0 −607.2 ± 168.5
4000
2000
0
−2000
−4000
−6000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 58.45
Std Dev 5.021
1.5
1
0.5
0
−0.5
−1
−1.5
−2

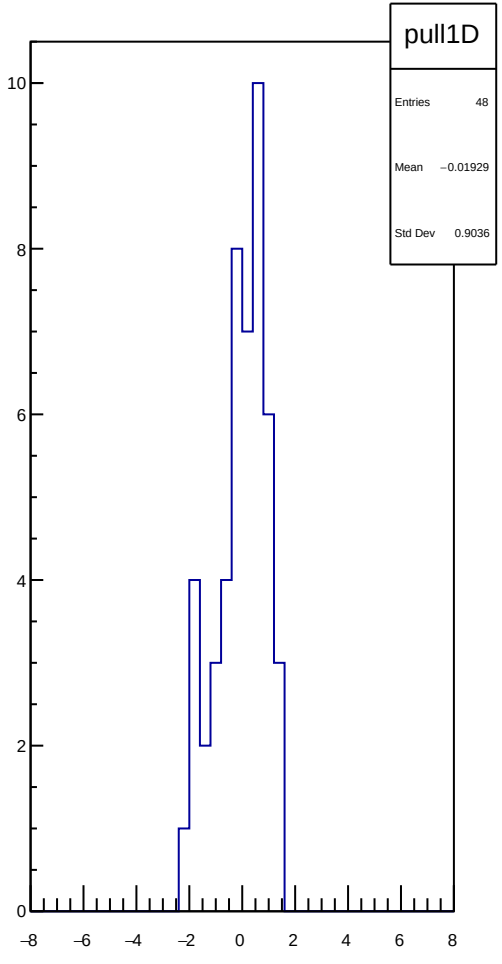

pull1D
Entries 48
Mean −0.02937
Std Dev 0.9207
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

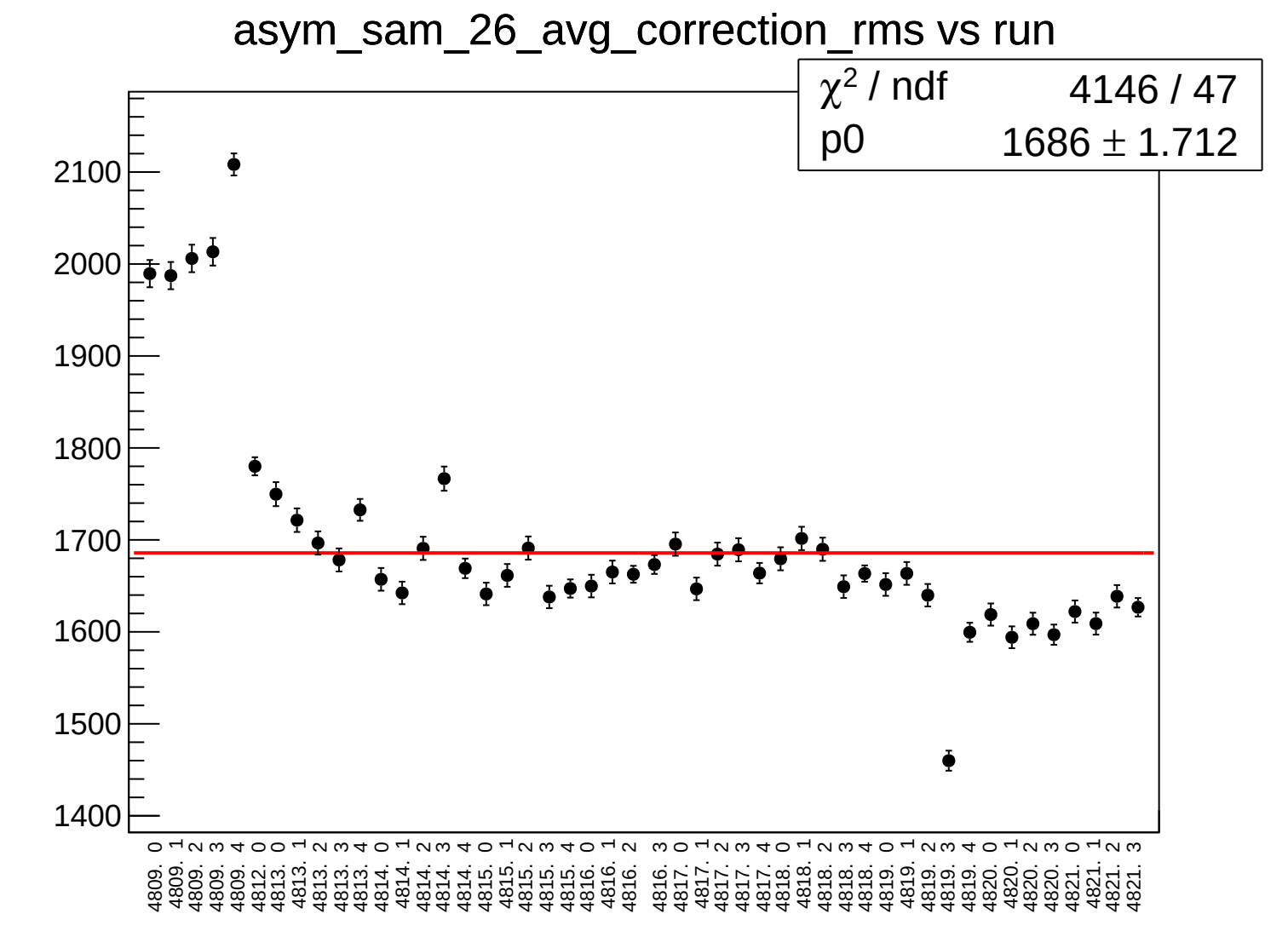

asym_sam_15_avg_correction_rms vs run
χ² / ndf 4.109e+04 / 47
p0 115 ± 0.1191
180
160
140
120
100
80
60
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

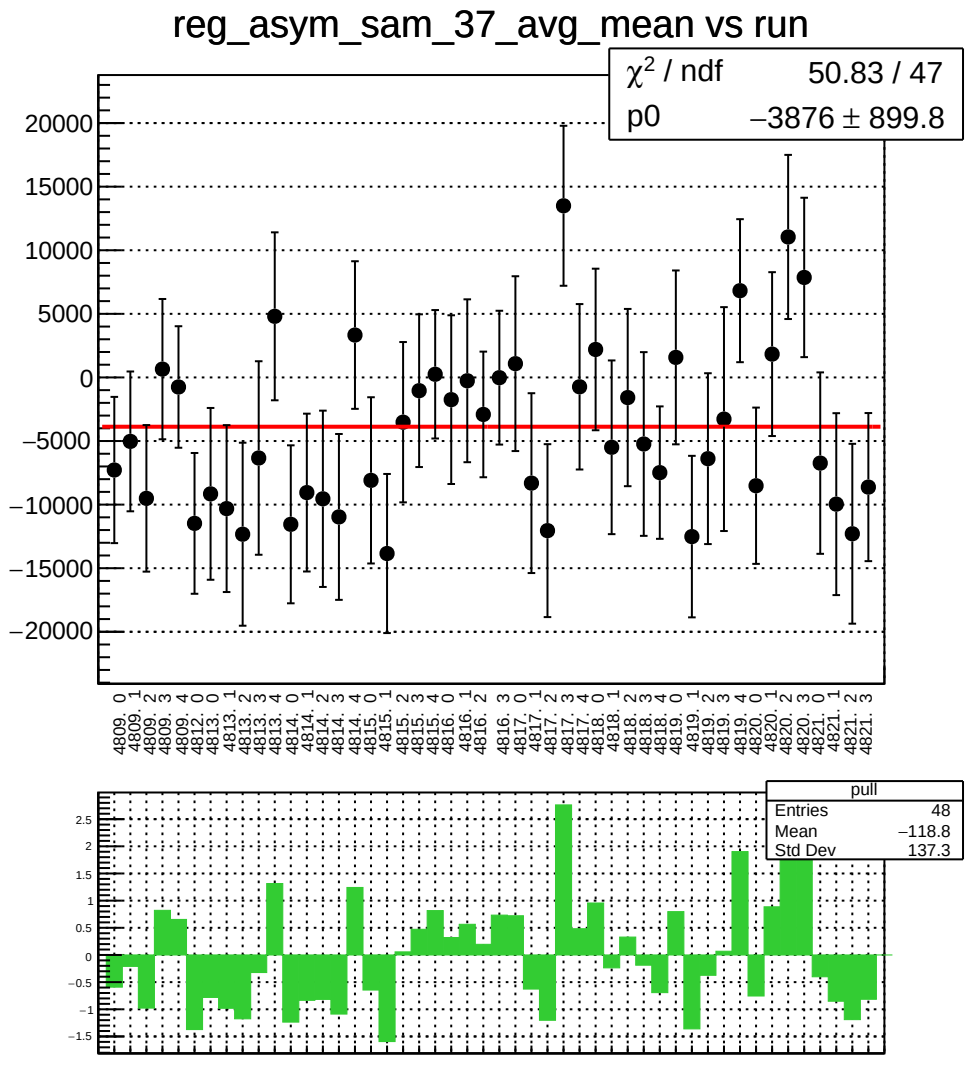

reg_asym_sam_26_avg_mean vs run
χ² / ndf 56.17 / 47
p0 −162 ± 1835
40000
20000
0
−20000
−40000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 1224
Std Dev 1194
2
1
0
−1
−2
pull1D
Entries 48
Mean −0.0011
Std Dev 1.082
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

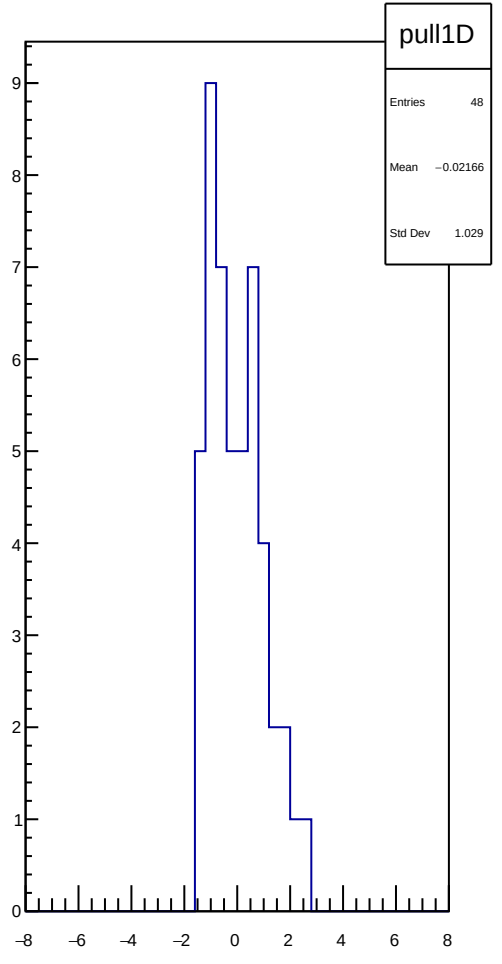

reg_asym_sam_26_avg_rms vs run
χ² / ndf 74.11 / 47
p0 1280 ± 1.297
1330
1320
1310
1300
1290
1280
1270
1260
1250
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

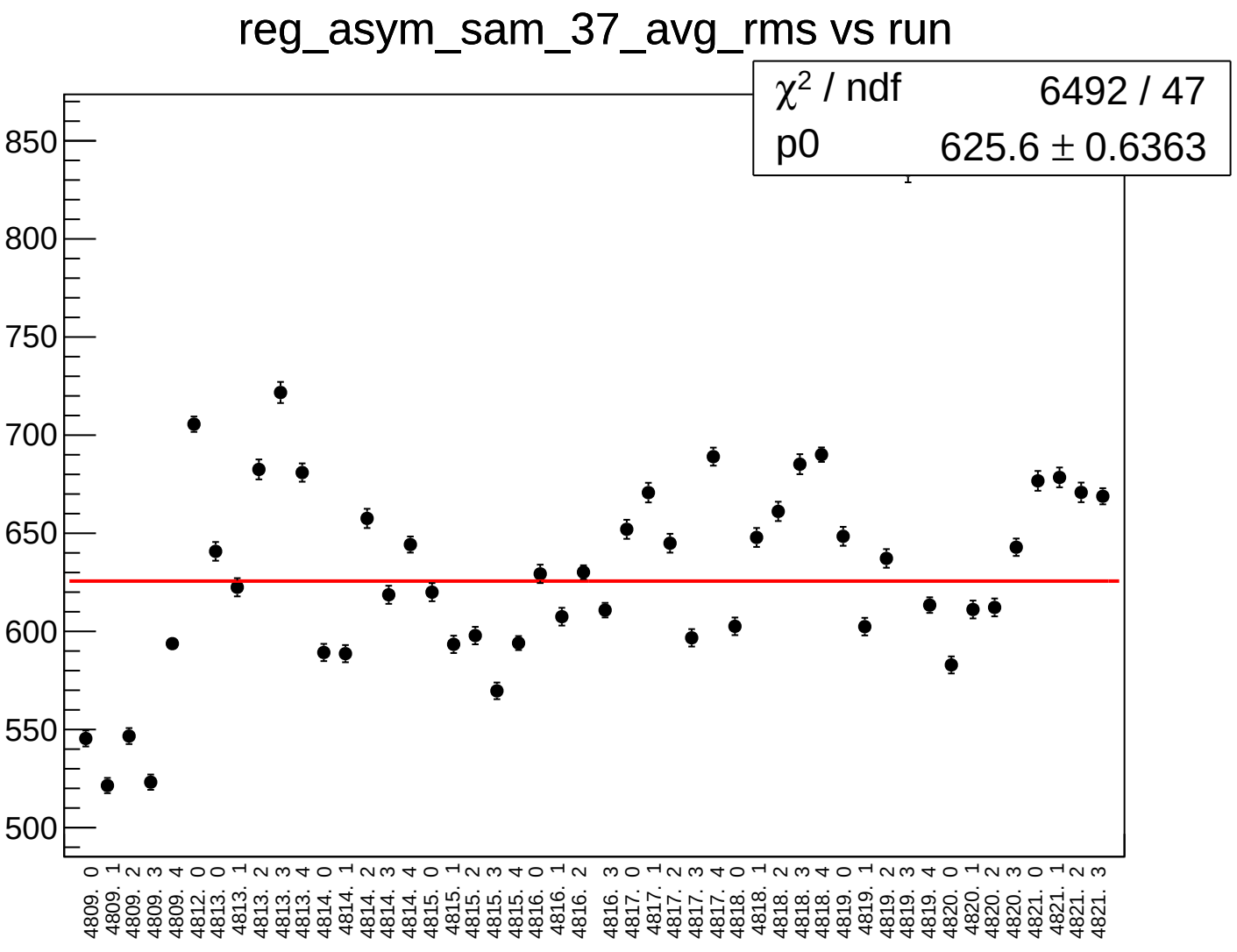

asym_sam_26_avg_correction_mean vs run
χ² / ndf 39.21 / 47
p0 −8743 ± 2422
40000
20000
0
−20000
−40000
−60000
−80000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 96.7
Std Dev 60.58
1.5
1
0.5
0
−0.5
−1
−1.5
−2

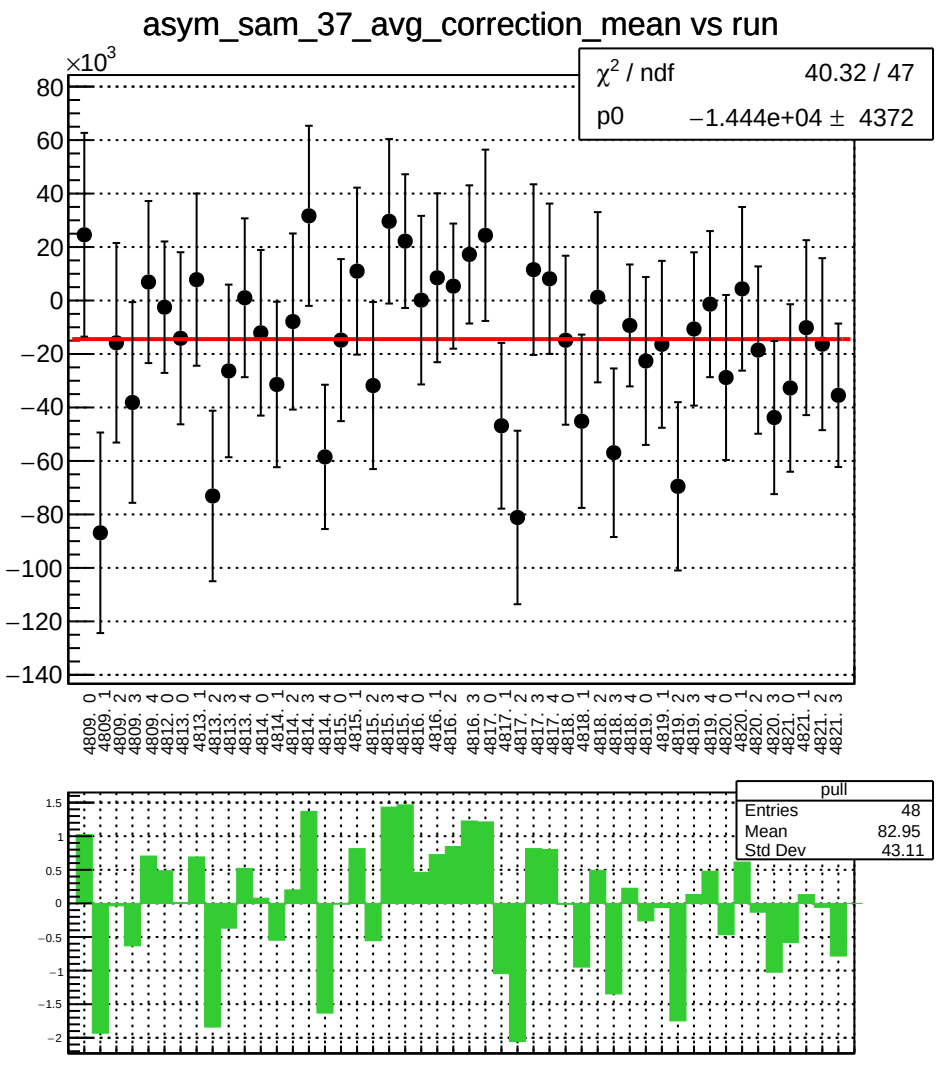

pull1D
Entries 48
Mean −0.01929
Std Dev 0.9036
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

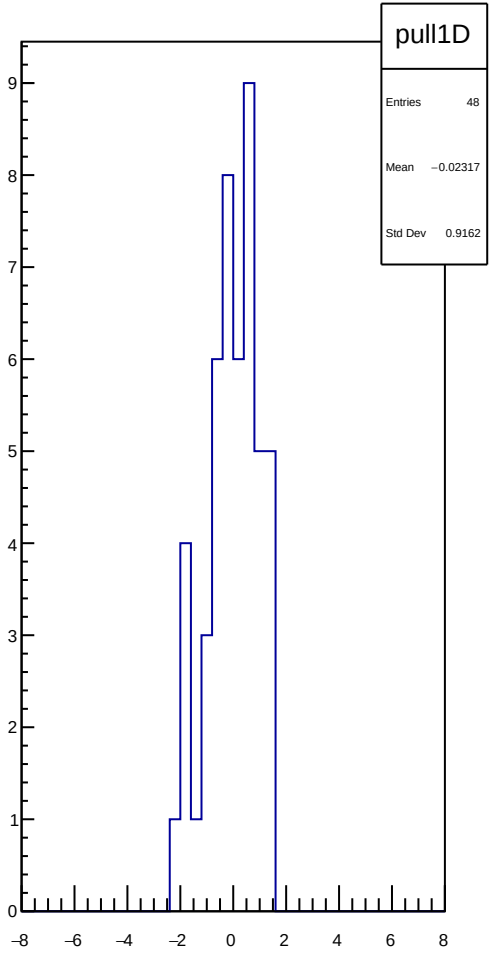

asym_sam_26_avg_correction_rms vs run
χ² / ndf 4146 / 47
p0 1686 ± 1.712
2100
2000
1900
1800
1700
1600
1500
1400
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

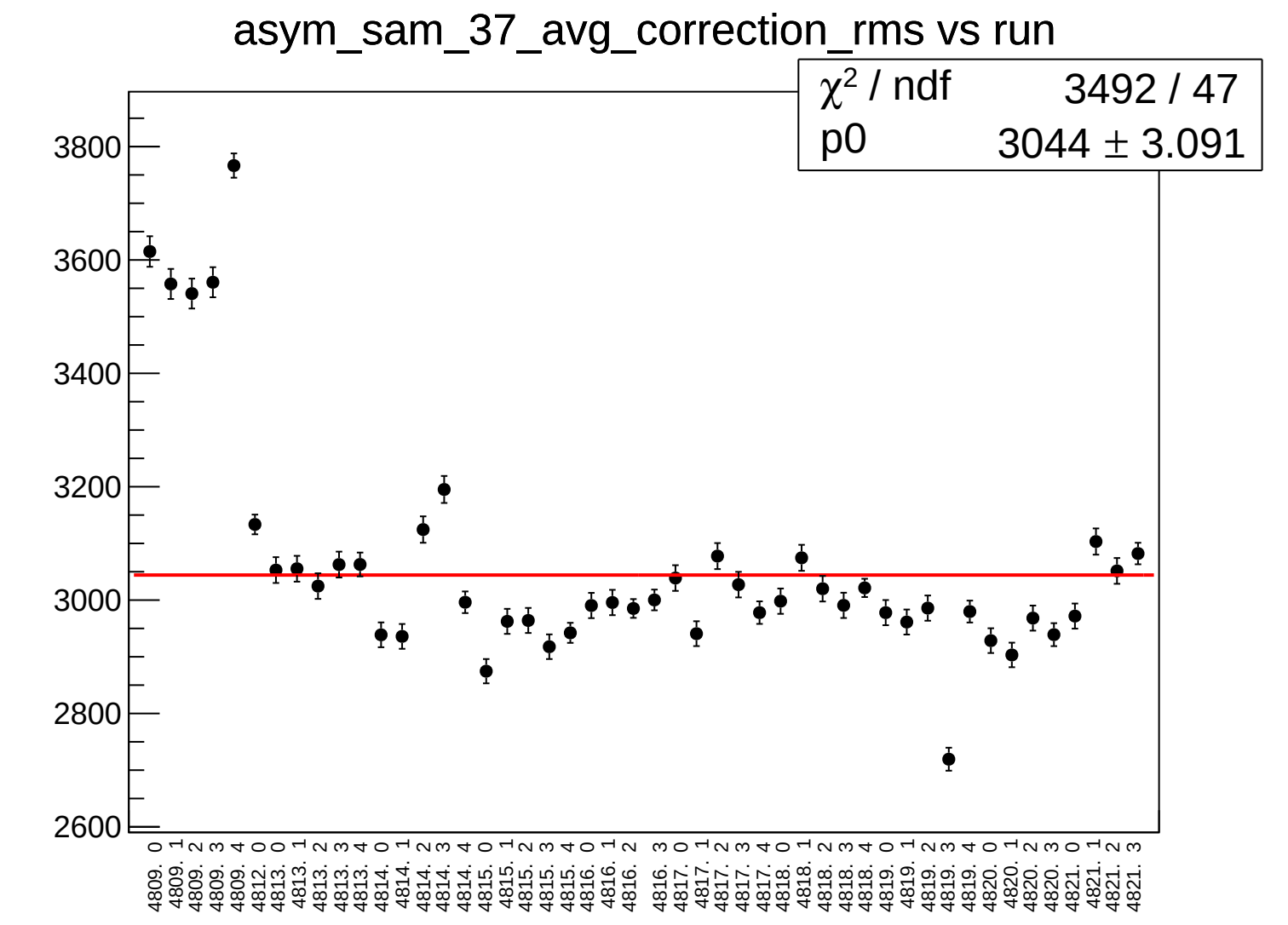

reg_asym_sam_37_avg_mean vs run
χ² / ndf 50.83 / 47
p0 −3876 ± 899.8
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean −118.8
Std Dev 137.3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

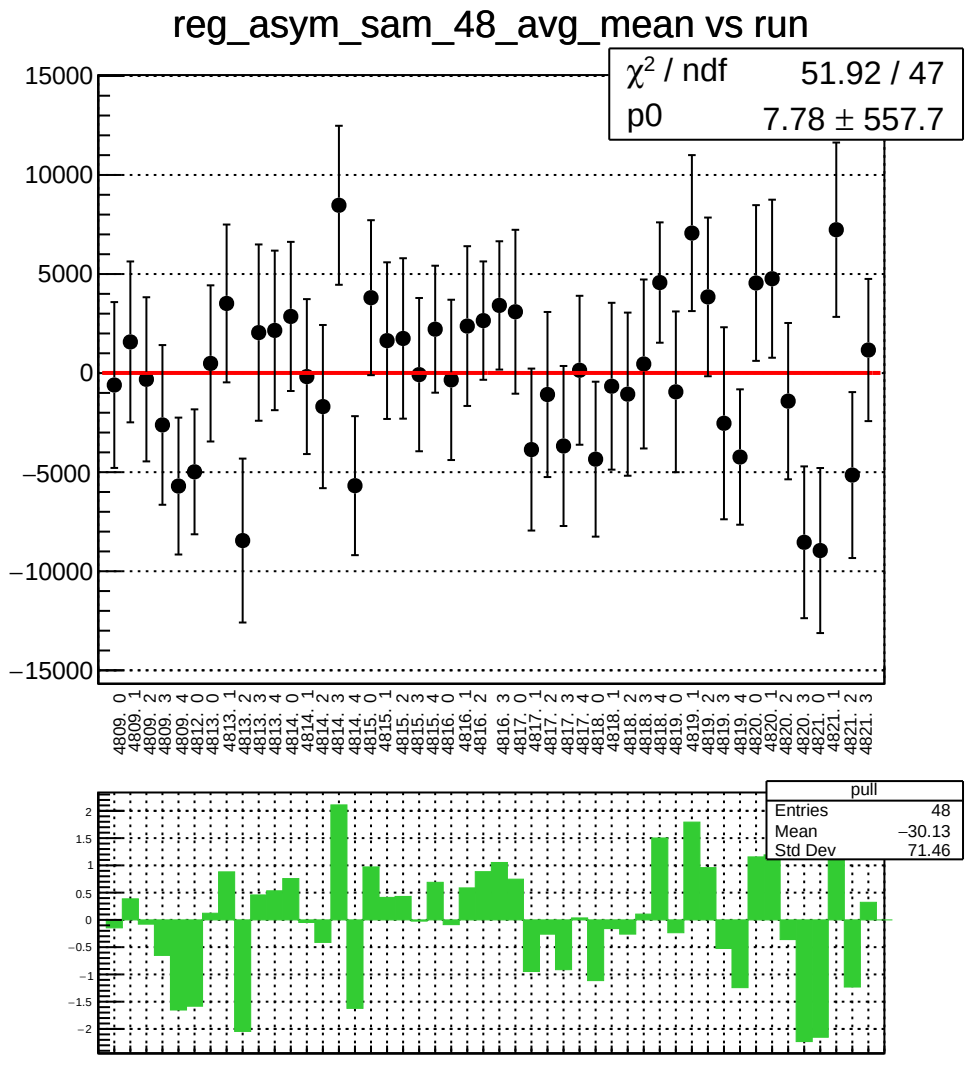

pull1D
Entries 48
Mean −0.02166
Std Dev 1.029
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

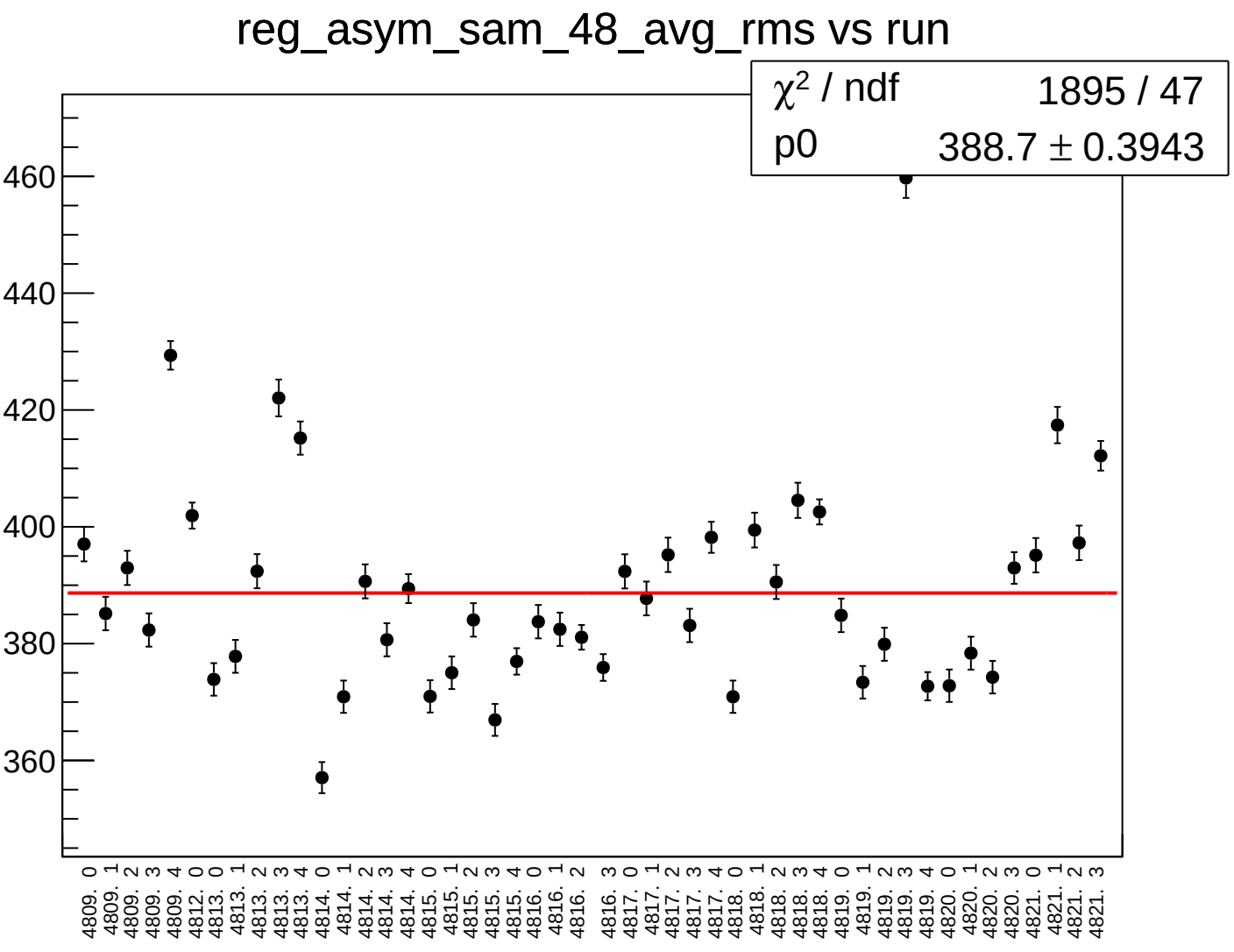

reg_asym_sam_37_avg_rms vs run
χ² / ndf 6492 / 47
p0 625.6 ± 0.6363
850
800
750
700
650
600
550
500
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

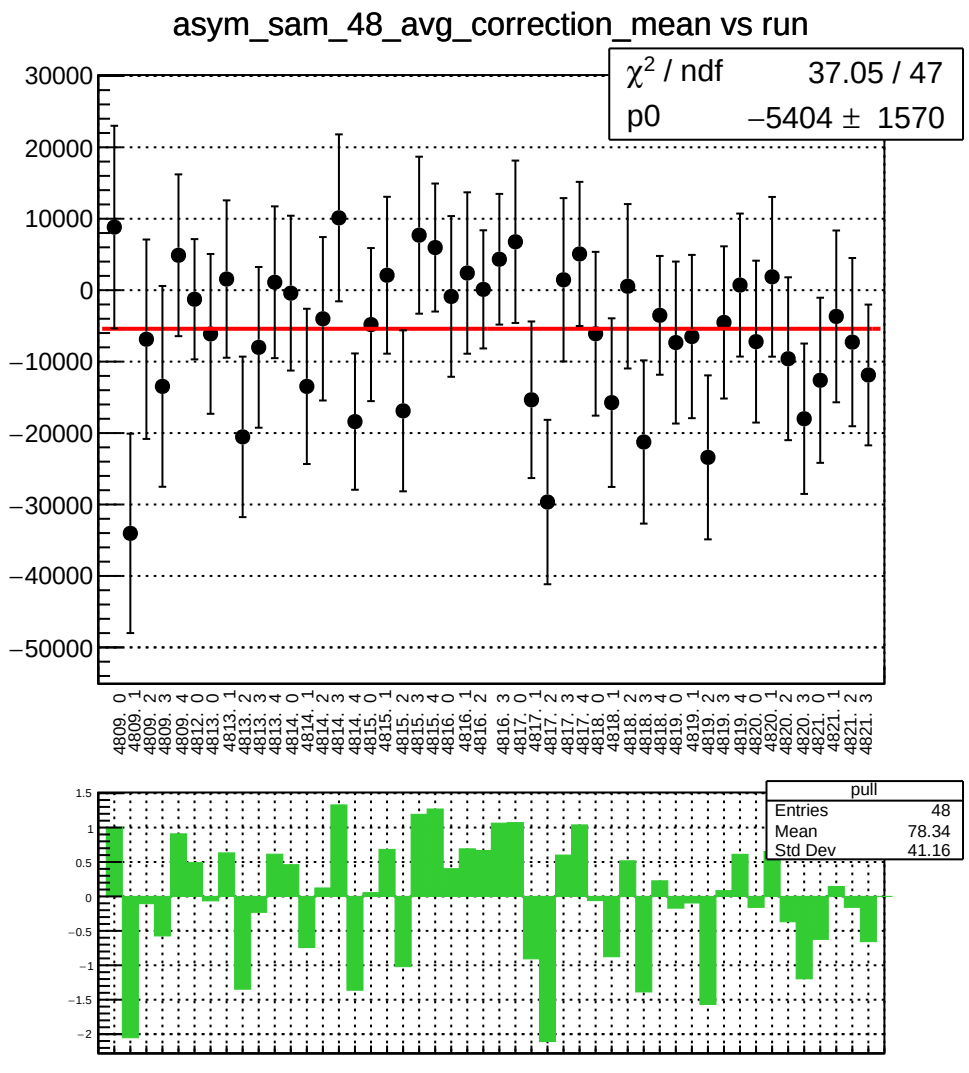

asym_sam_37_avg_correction_mean vs run
×10^3
χ² / ndf 40.32 / 47
p0 −1.444e+04 ± 4372
pull
Entries 48
Mean 82.95
Std Dev 43.11

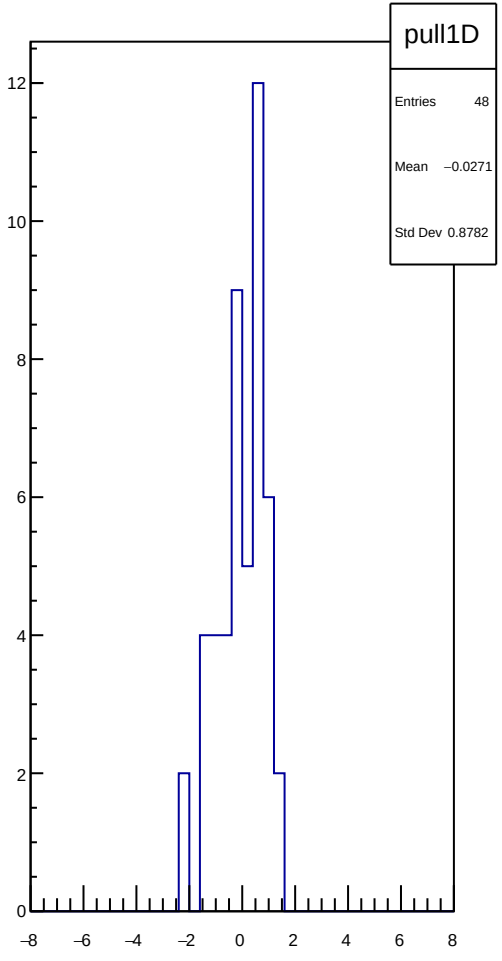

pull1D
Entries 48
Mean −0.02317
Std Dev 0.9162

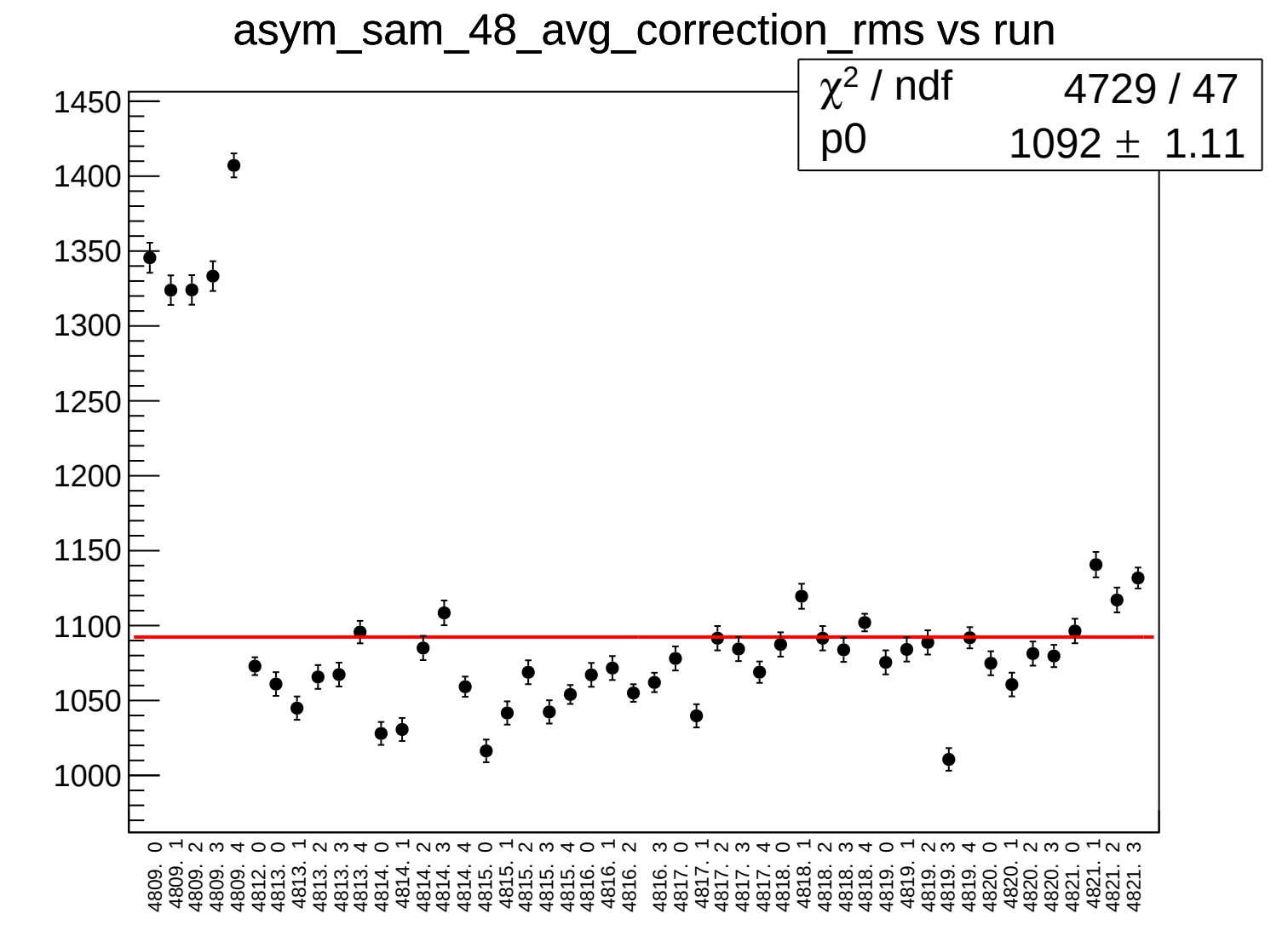

asym_sam_37_avg_correction_rms vs run
χ² / ndf 3492 / 47
p0 3044 ± 3.091
3800
3600
3400
3200
3000
2800
2600
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

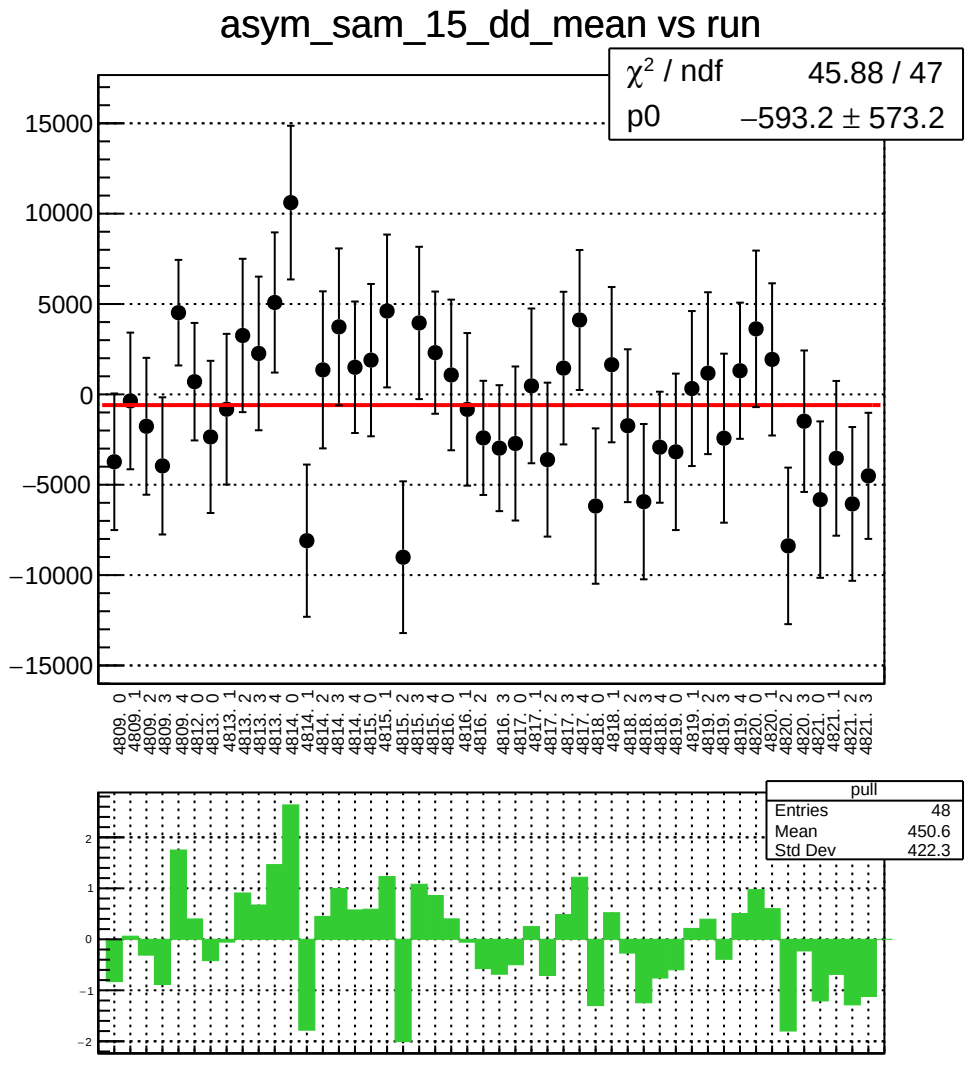

reg_asym_sam_48_avg_mean vs run
χ² / ndf 51.92 / 47
p0 7.78 ± 557.7
15000
10000
5000
0
−5000
−10000
−15000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean −30.13
Std Dev 71.46
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 48
Mean −0.005034
Std Dev 1.04
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

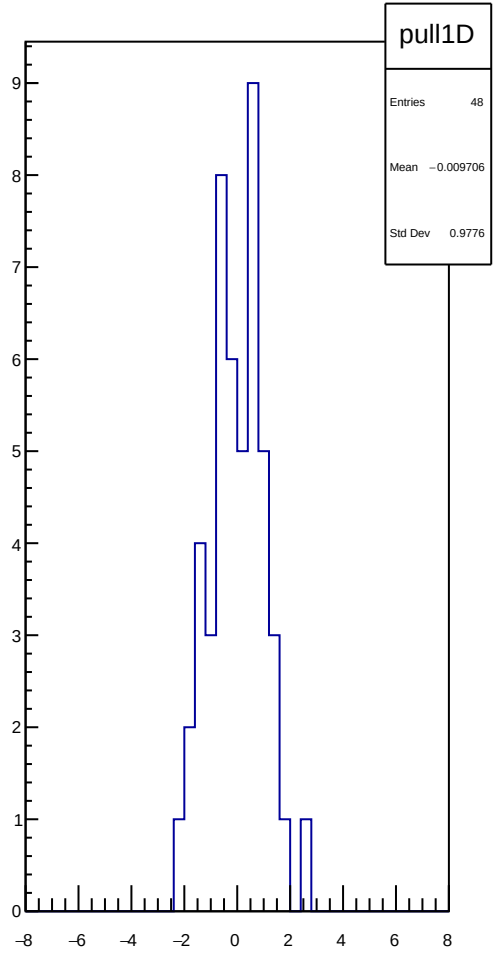

reg_asym_sam_48_avg_rms vs run
χ² / ndf 1895 / 47
p0 388.7 ± 0.3943
460
440
420
400
380
360
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

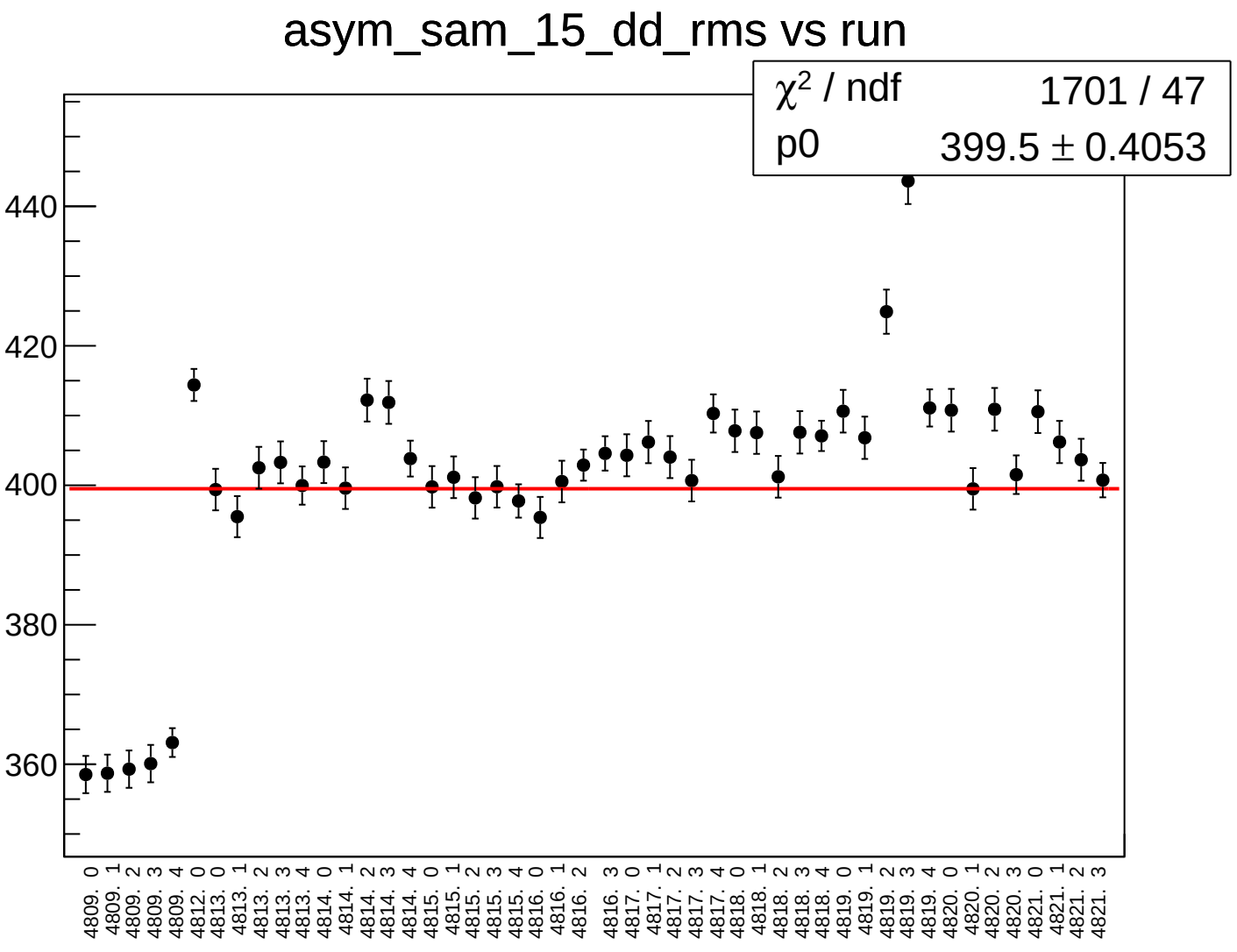

asym_sam_48_avg_correction_mean vs run
χ² / ndf 37.05 / 47
p0 −5404 ± 1570
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 78.34
Std Dev 41.16
1.5
1
0.5
0
−0.5
−1
−1.5
−2

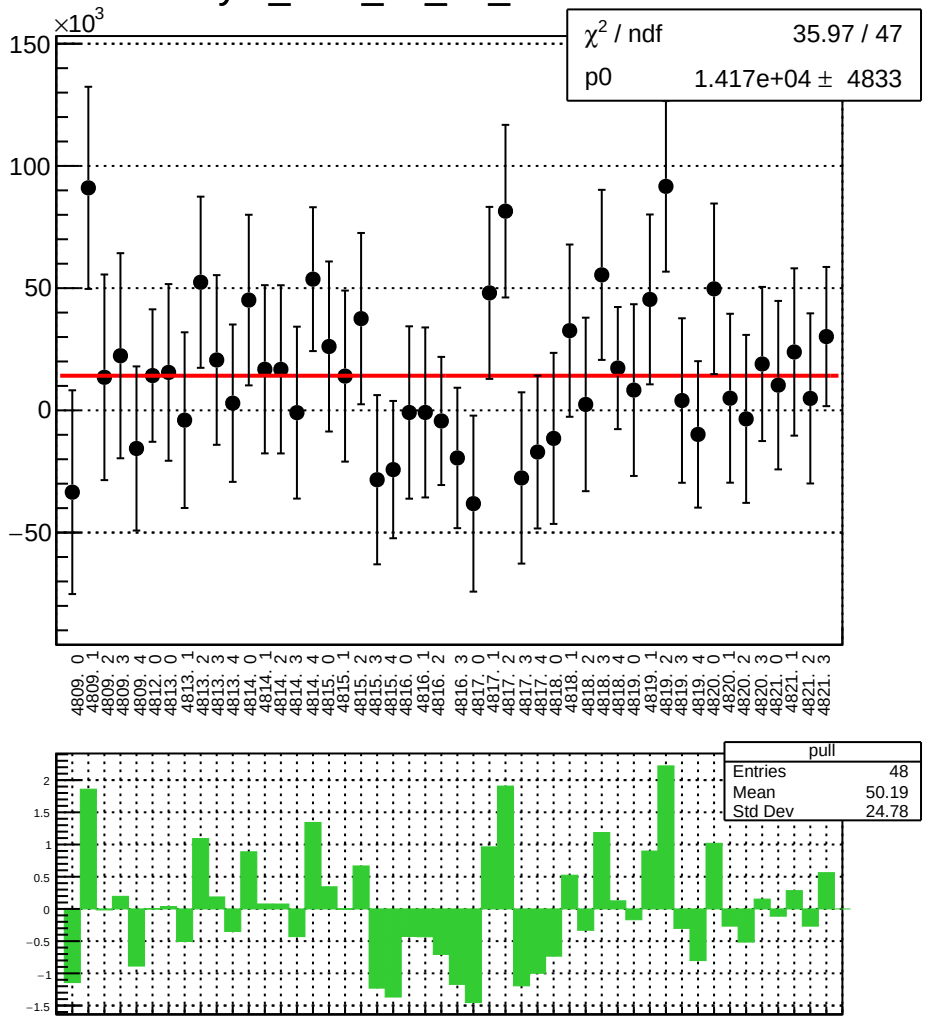

pull1D
Entries 48
Mean −0.0271
Std Dev 0.8782
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

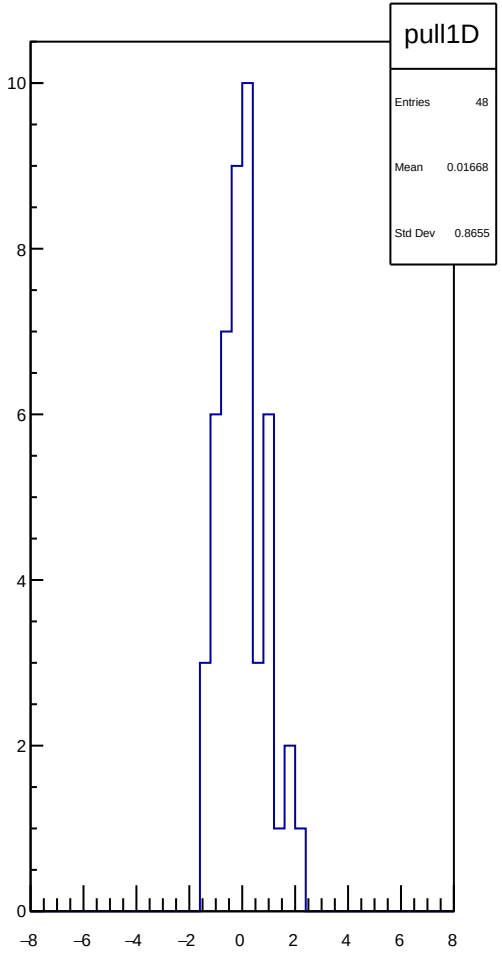

asym_sam_48_avg_correction_rms vs run
χ² / ndf 4729 / 47
p0 1092 ± 1.11
1450
1400
1350
1300
1250
1200
1150
1100
1050
1000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

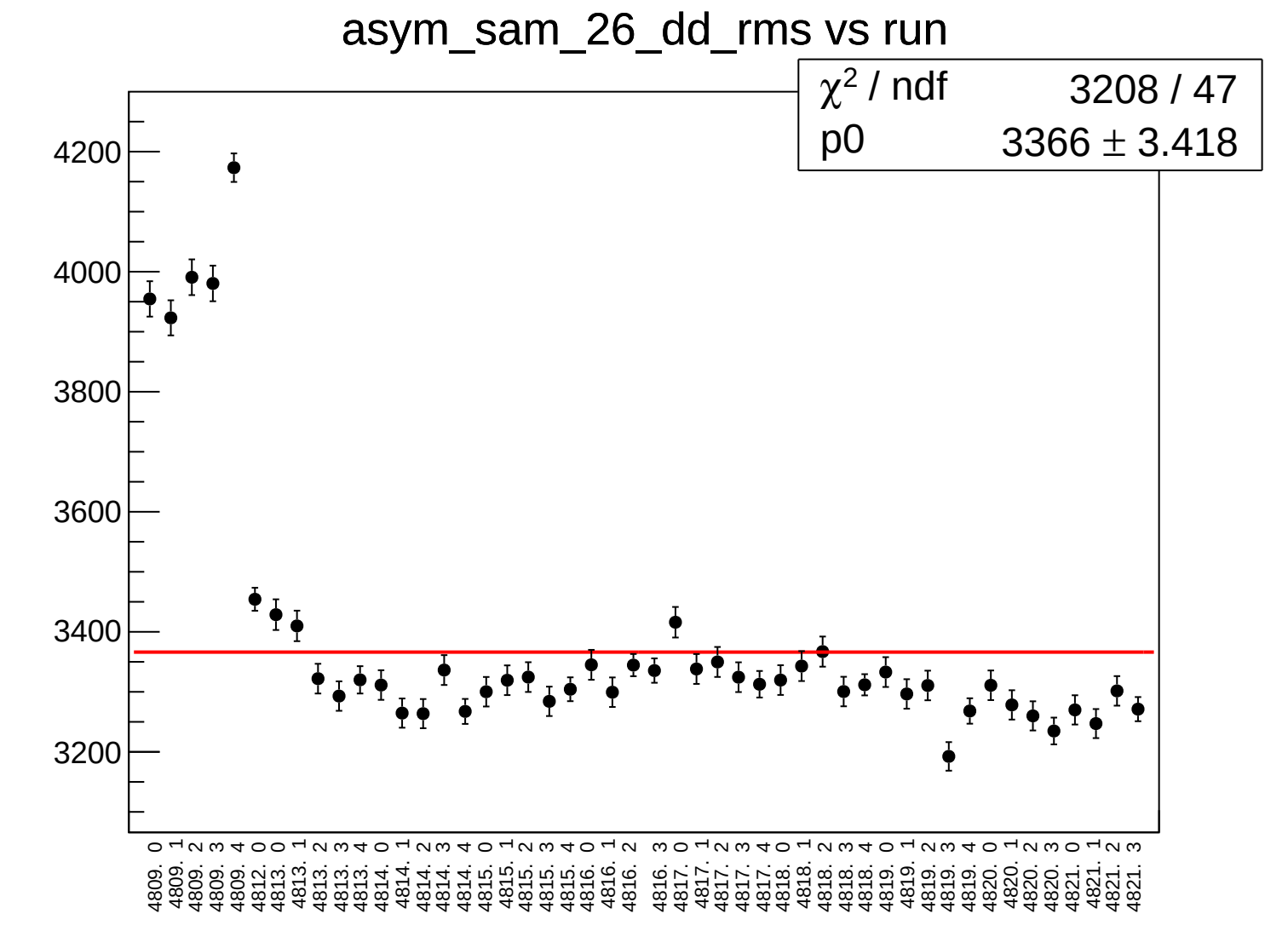

asym_sam_15_dd_mean vs run
χ² / ndf 45.88 / 47
p0 −593.2 ± 573.2
15000
10000
5000
0
−5000
−10000
−15000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 450.6
Std Dev 422.3
2
1
0
−1
−2

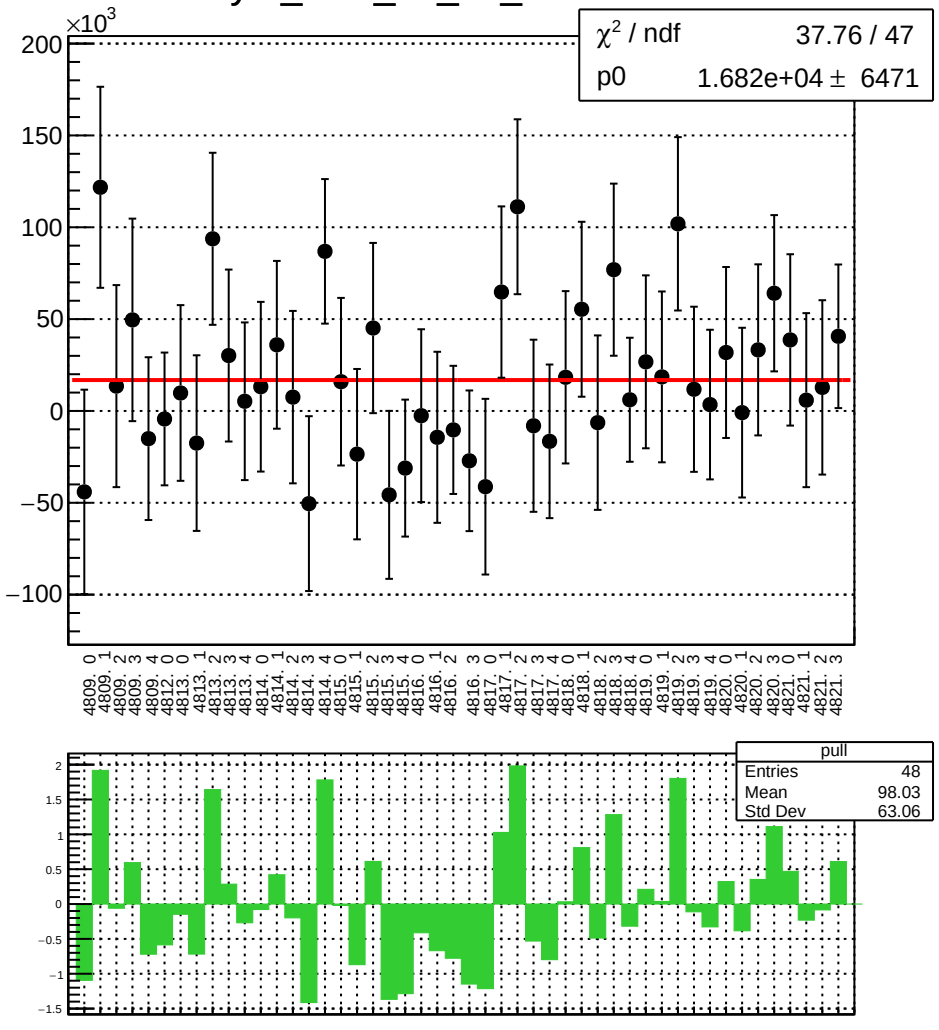

pull1D
Entries 48
Mean −0.009706
Std Dev 0.9776
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

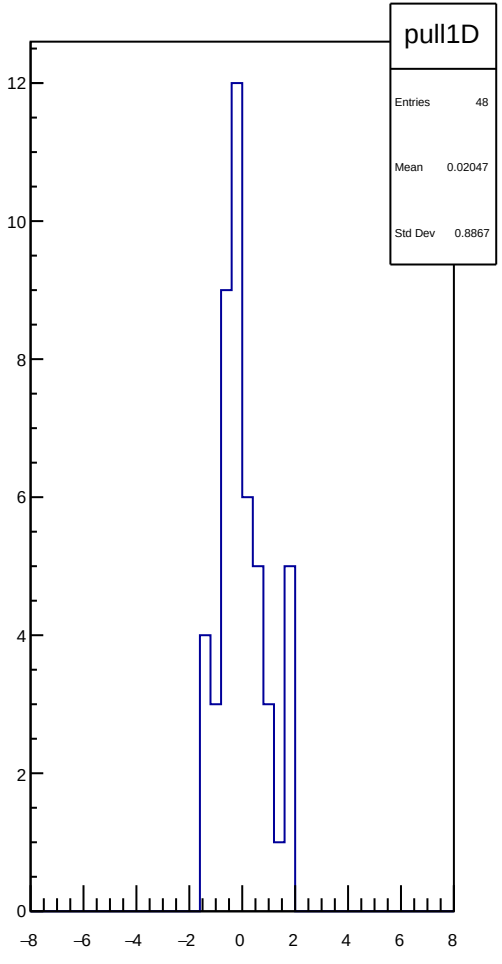

asym_sam_15_dd_rms vs run
χ² / ndf 1701 / 47
p0 399.5 ± 0.4053
440
420
400
380
360
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

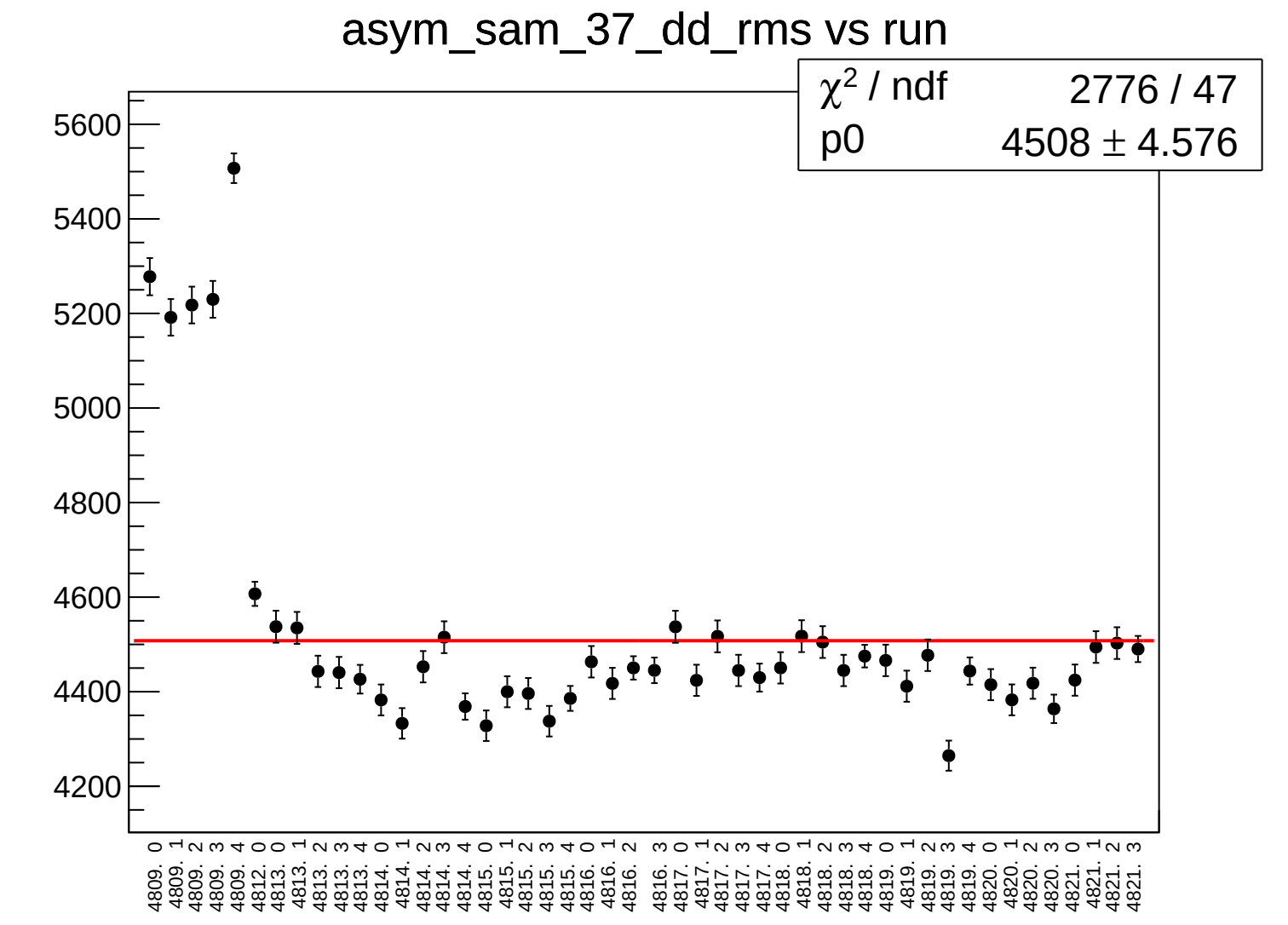

asym_sam_26_dd_mean vs run
×10^3
χ² / ndf 35.97 / 47
p0 1.417e+04 ± 4833
150
100
50
0
−50
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 50.19
Std Dev 24.78
2
1.5
1
0.5
0
−0.5
−1
−1.5

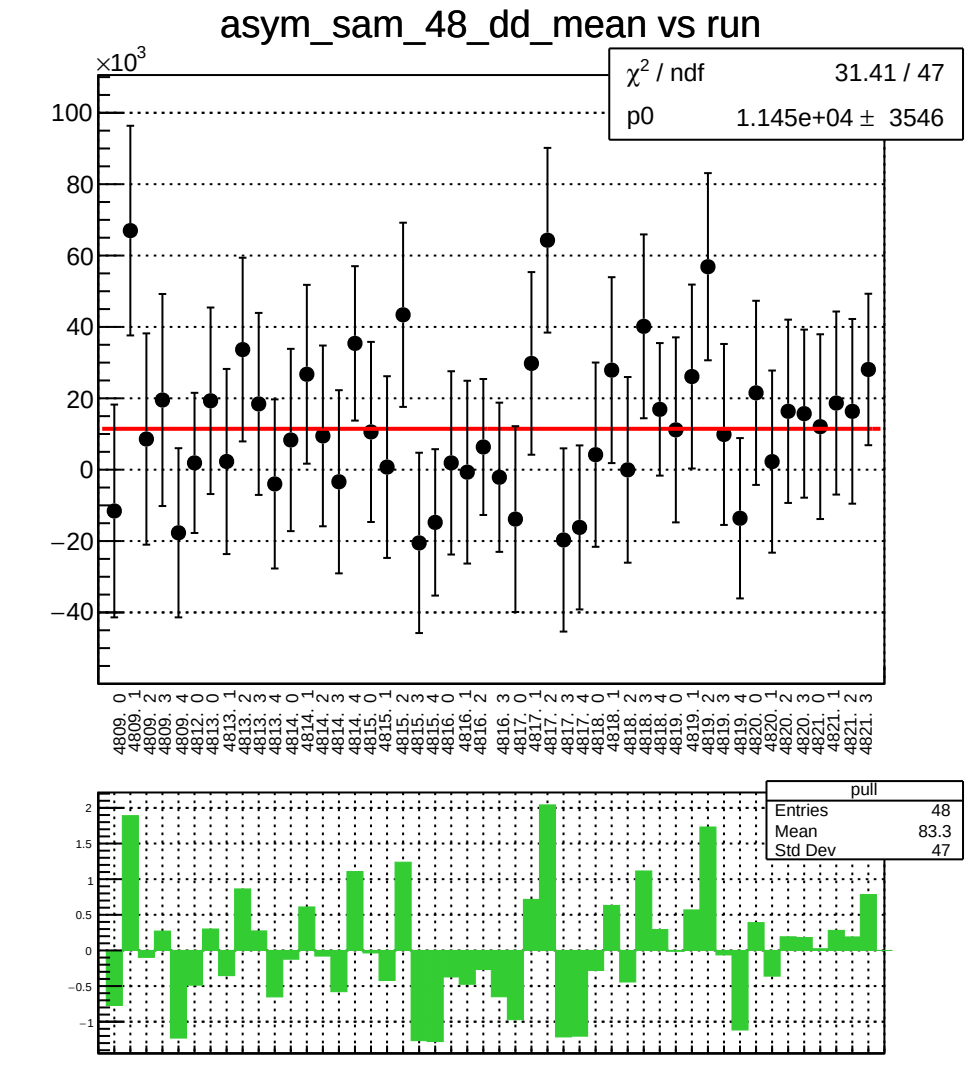

pull1D
Entries 48
Mean 0.01668
Std Dev 0.8655
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

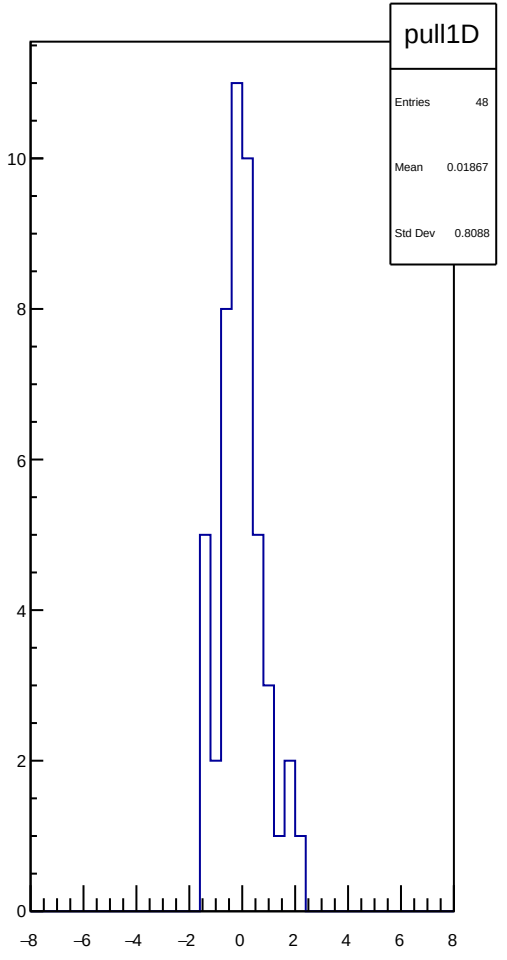

asym_sam_26_dd_rms vs run
χ² / ndf 3208 / 47
p0 3366 ± 3.418
4200
4000
3800
3600
3400
3200
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

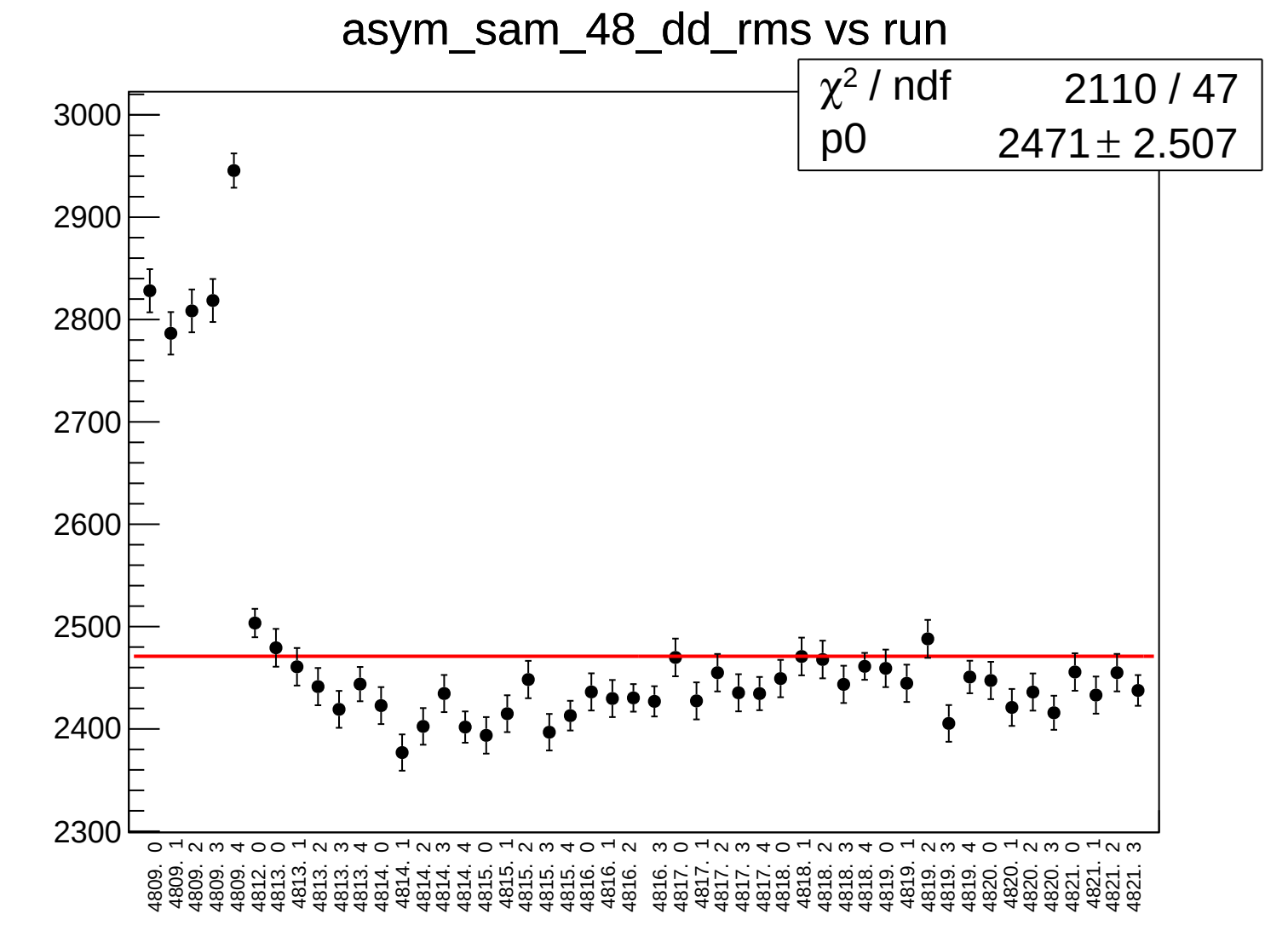

asym_sam_37_dd_mean vs run
×10^3
χ² / ndf 37.76 / 47
p0 1.682e+04 ± 6471
pull
Entries 48
Mean 98.03
Std Dev 63.06

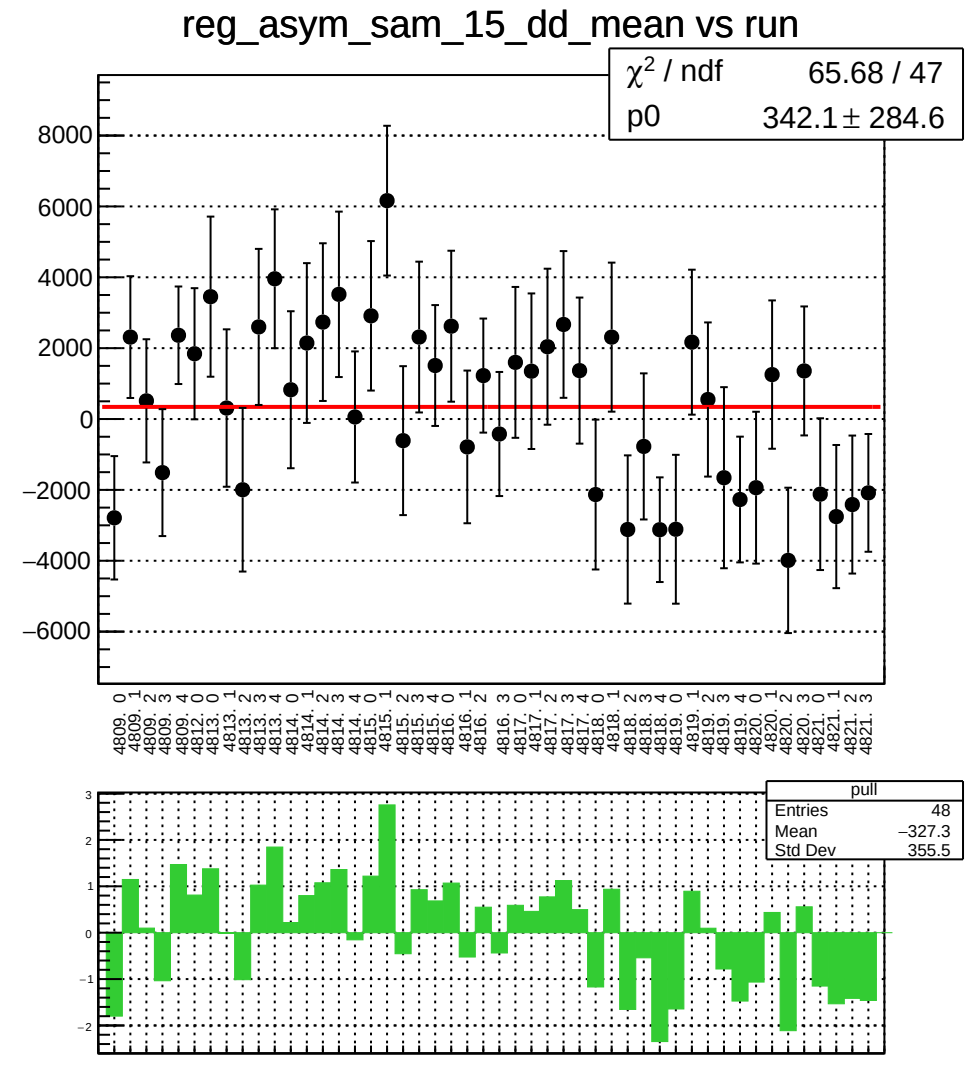

pull1D
Entries 48
Mean 0.02047
Std Dev 0.8867

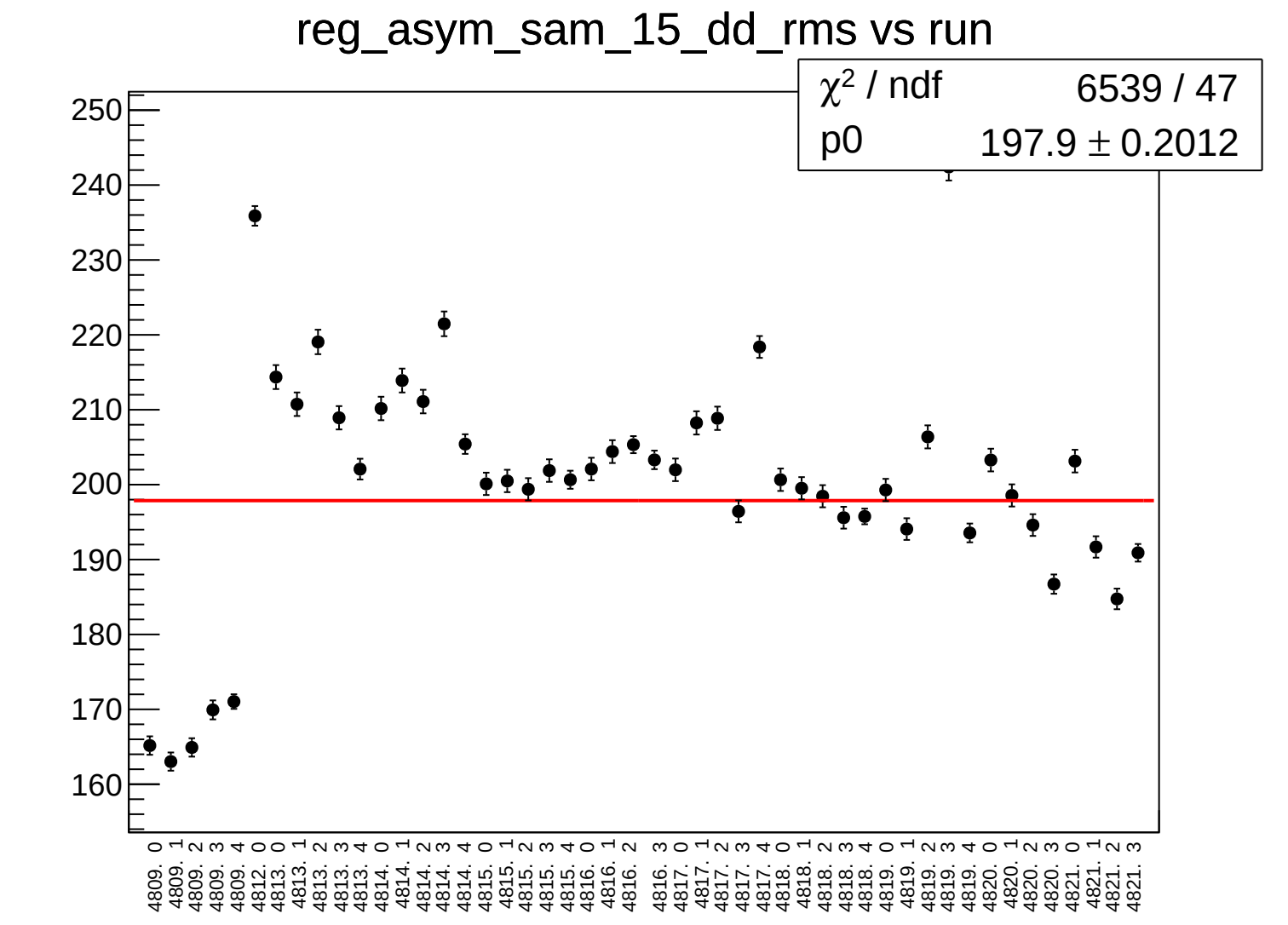

asym_sam_37_dd_rms vs run
χ² / ndf 2776 / 47
p0 4508 ± 4.576
5600
5400
5200
5000
4800
4600
4400
4200
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

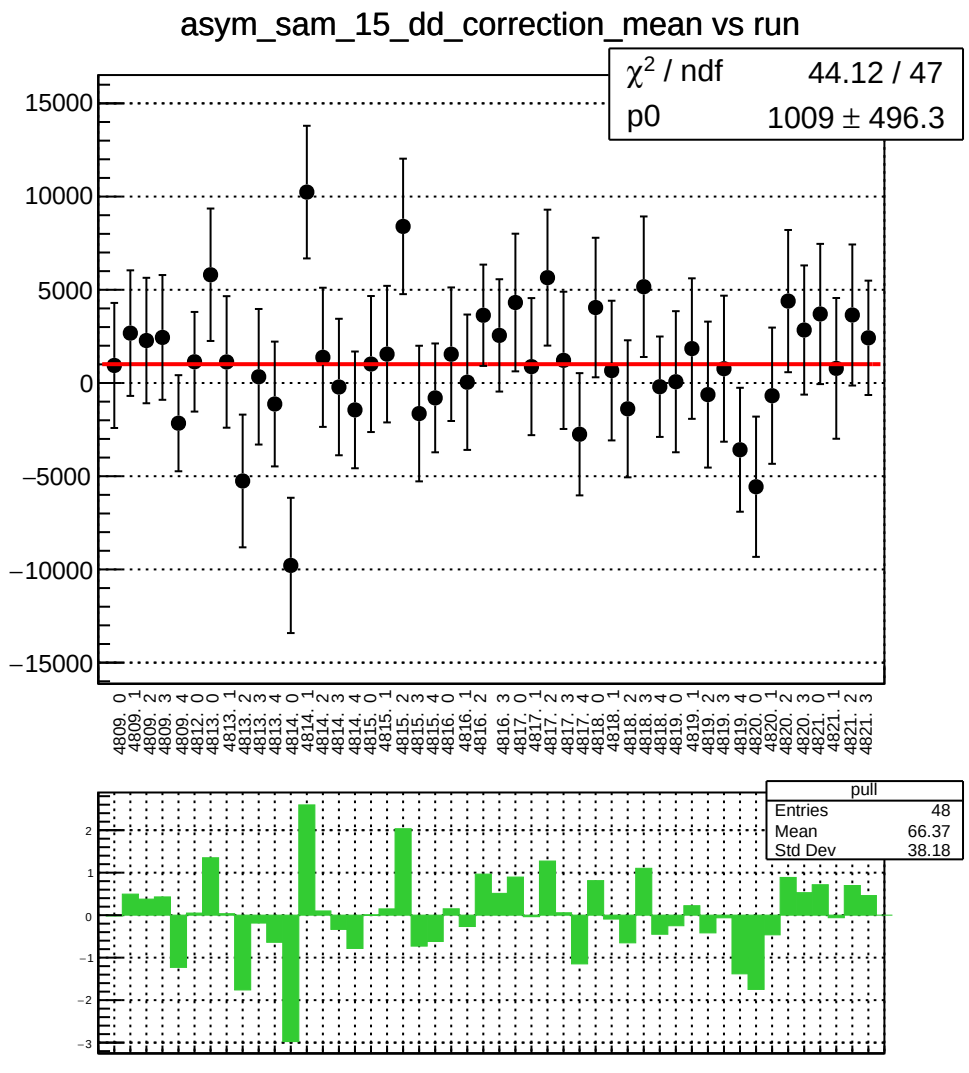

asym_sam_48_dd_mean vs run
×10^3
χ² / ndf 31.41 / 47
p0 1.145e+04 ± 3546
100
80
60
40
20
0
−20
−40
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 83.3
Std Dev 47
2
1.5
1
0.5
0
−0.5
−1

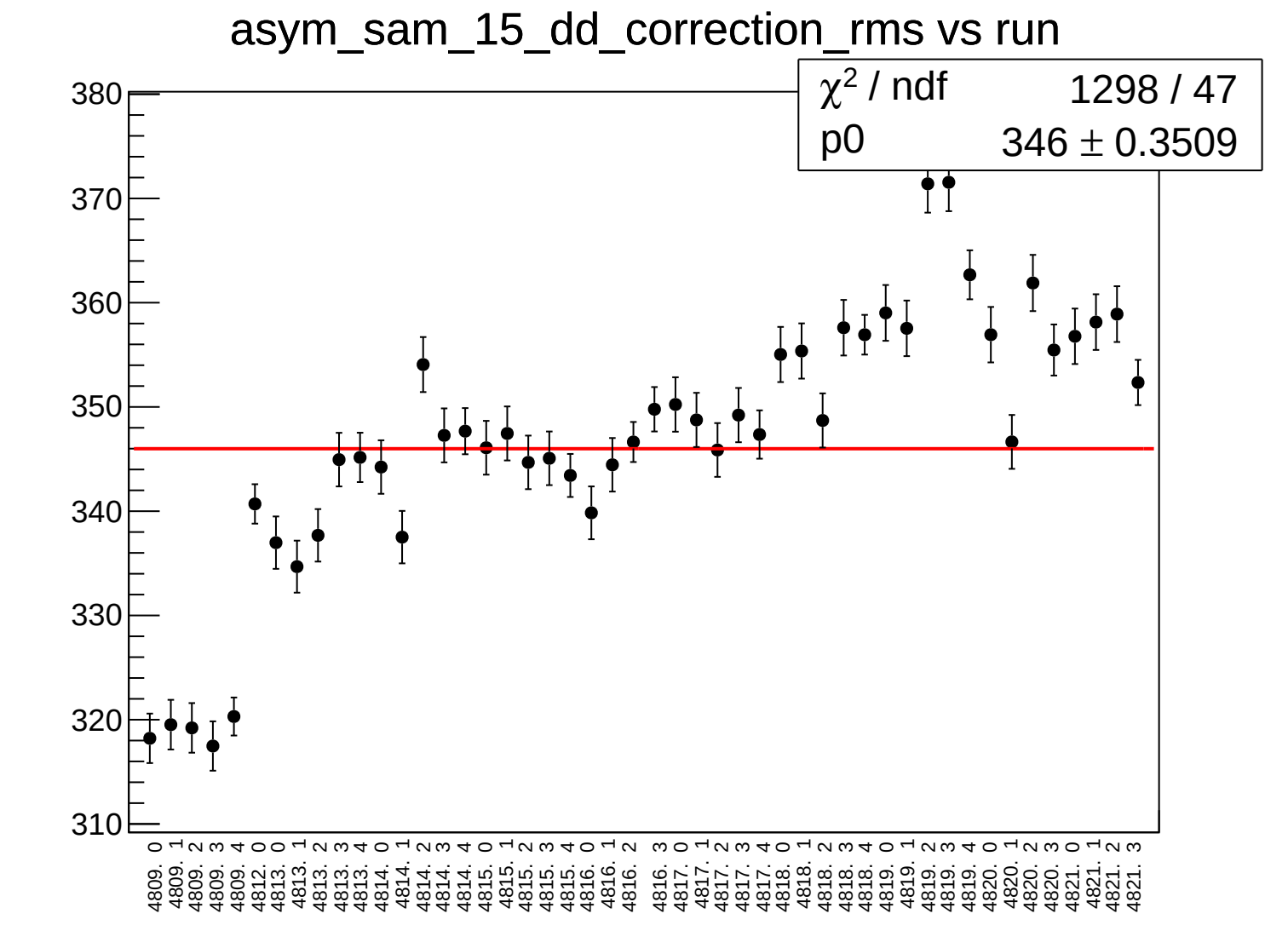

pull1D
Entries 48
Mean 0.01867
Std Dev 0.8088
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

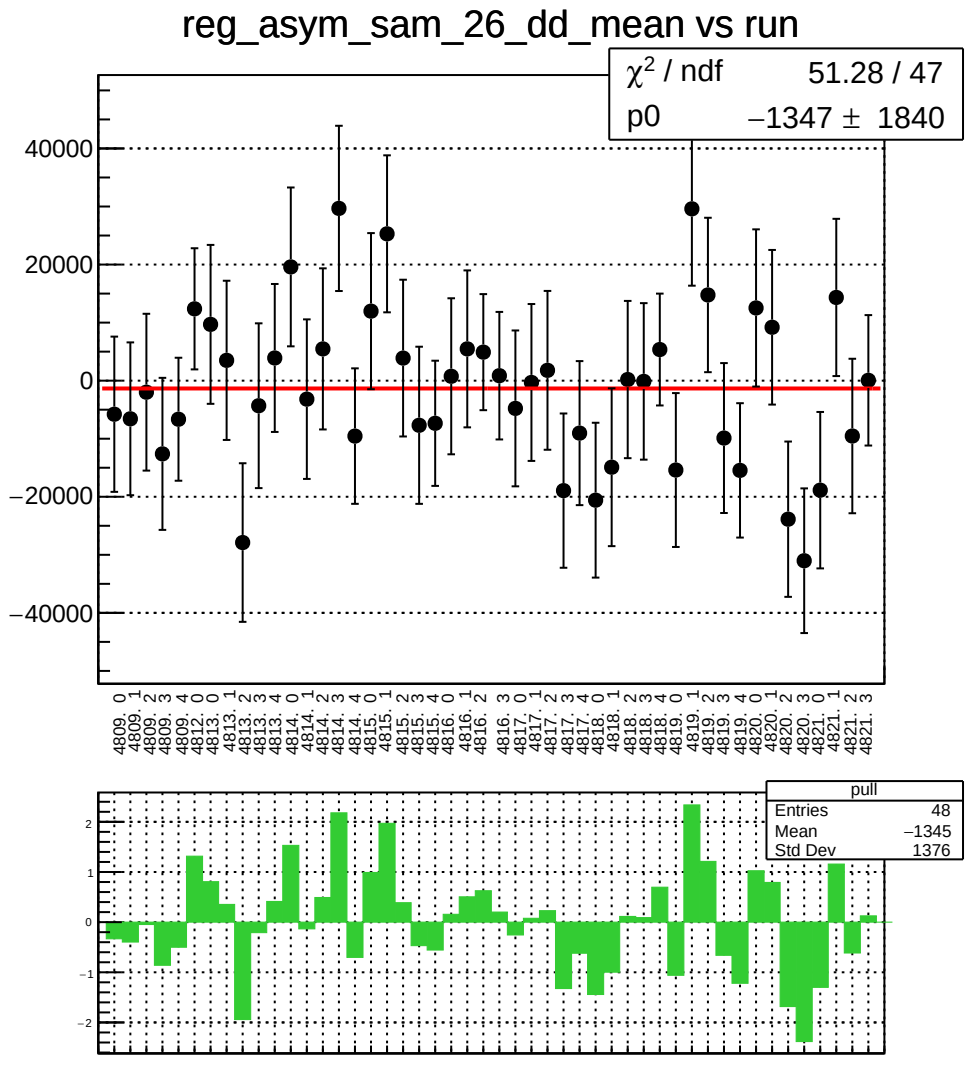

asym_sam_48_dd_rms vs run
χ² / ndf 2110 / 47
p0 2471 ± 2.507
3000
2900
2800
2700
2600
2500
2400
2300
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

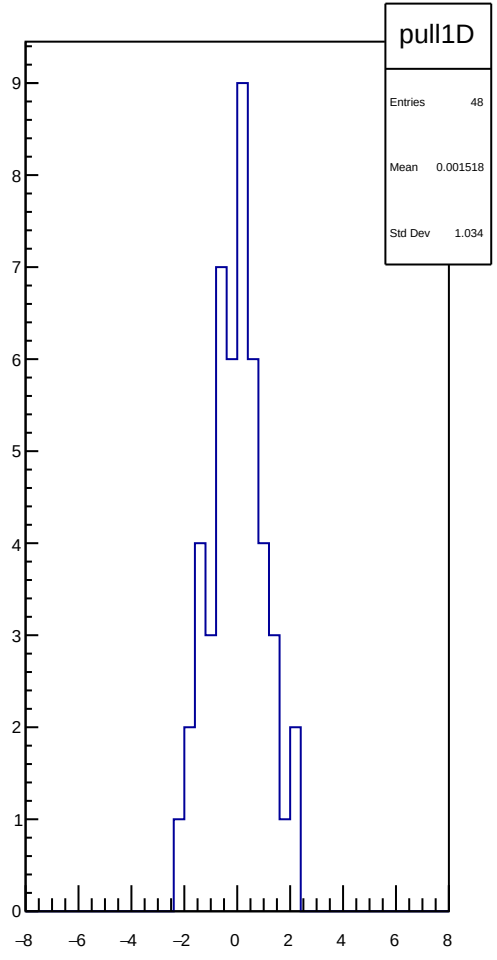

reg_asym_sam_15_dd_mean vs run
χ² / ndf 65.68 / 47
p0 342.1 ± 284.6
8000
6000
4000
2000
0
−2000
−4000
−6000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean −327.3
Std Dev 355.5
3
2
1
0
−1
−2
pull1D
Entries 48
Mean 0.02121
Std Dev 1.17
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

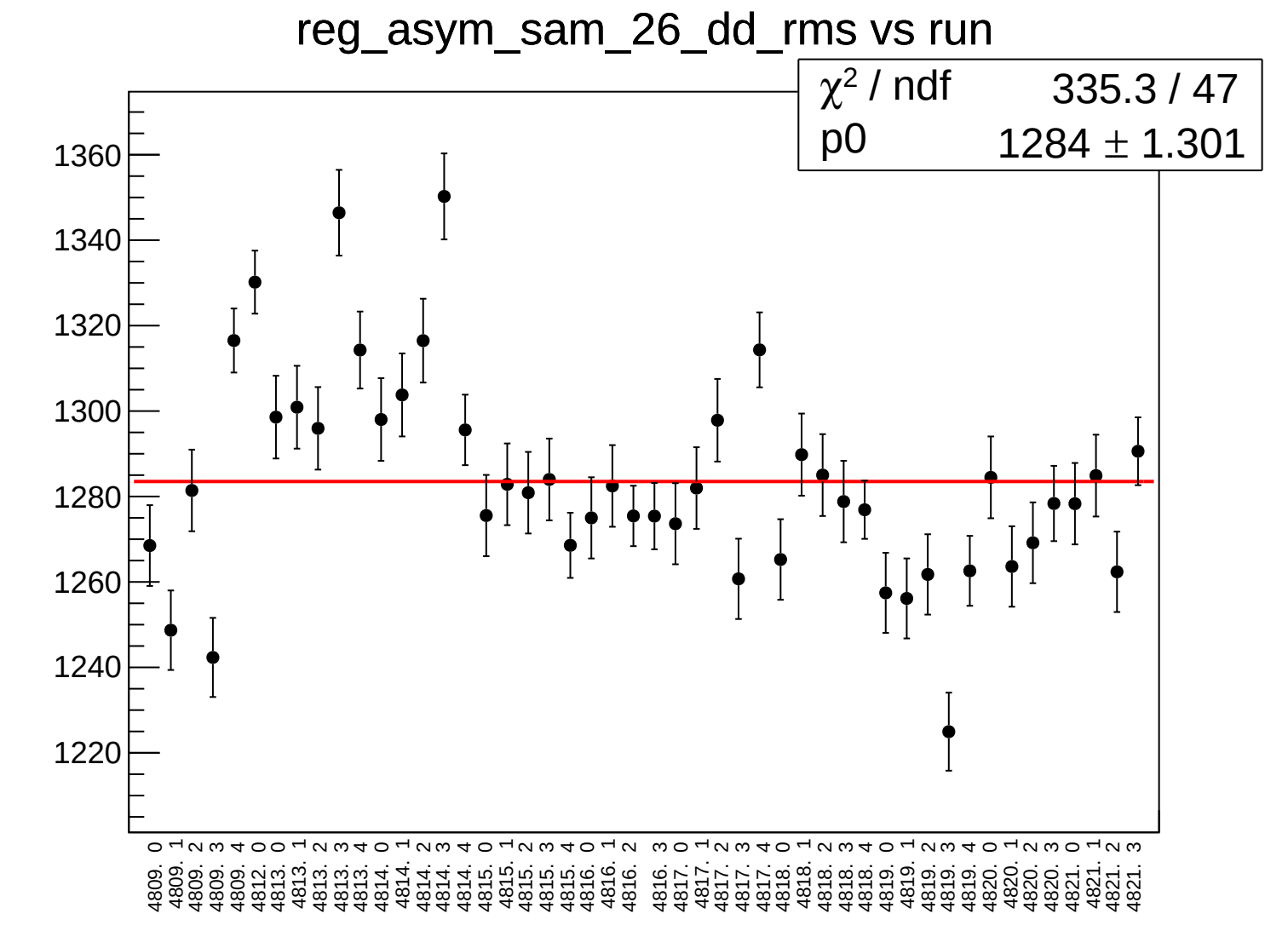

reg_asym_sam_15_dd_rms vs run
χ² / ndf 6539 / 47
p0 197.9 ± 0.2012
250
240
230
220
210
200
190
180
170
160
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

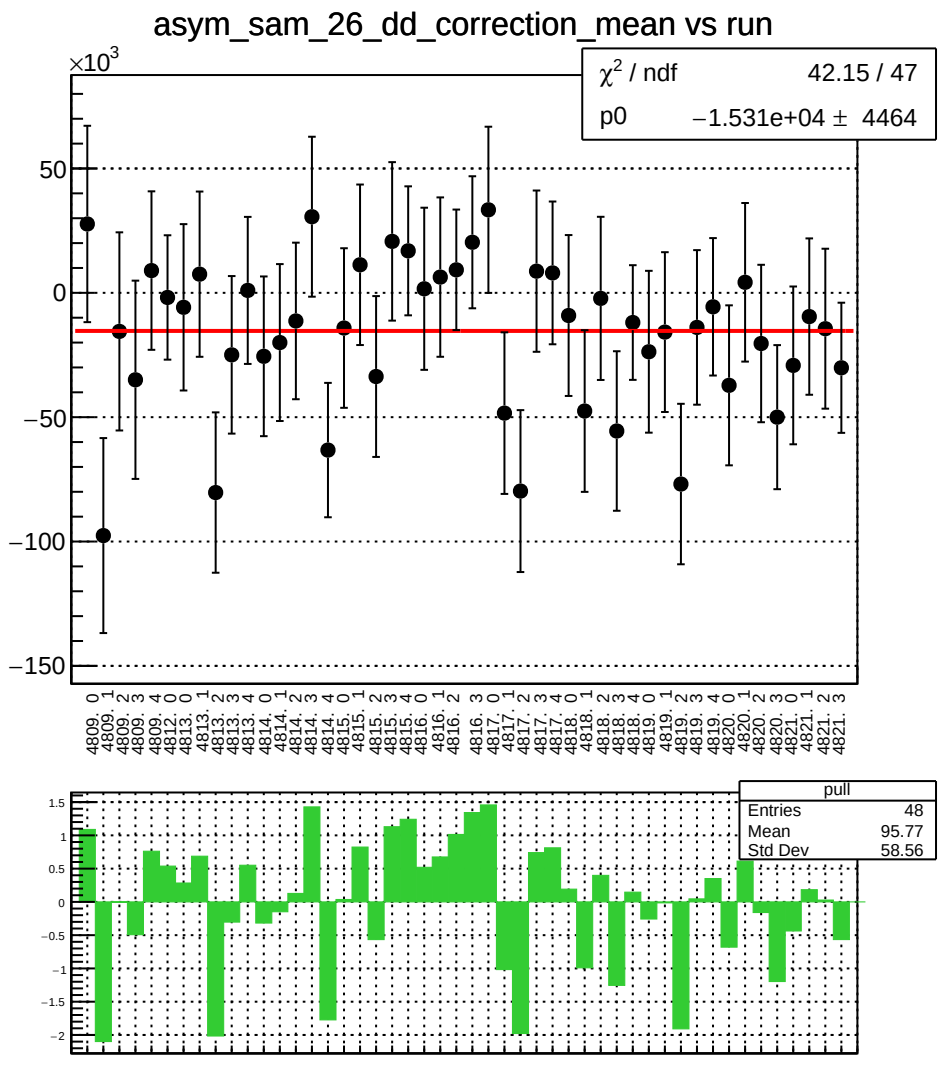

asym_sam_15_dd_correction_mean vs run
χ² / ndf 44.12 / 47
p0 1009 ± 496.3
15000
10000
5000
0
−5000
−10000
−15000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 66.37
Std Dev 38.18
2
1
0
−1
−2
−3
pull1D
Entries 48
Mean 0.01245
Std Dev 0.9587
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

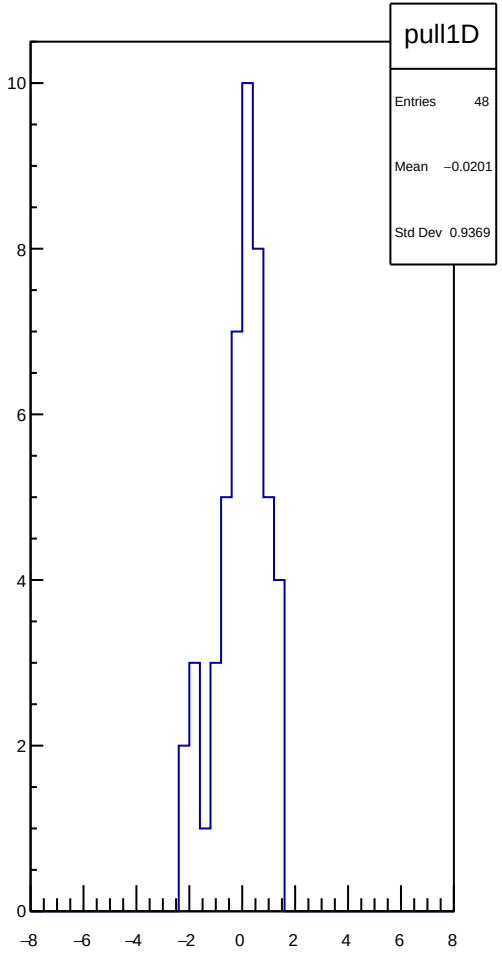

asym_sam_15_dd_correction_rms vs run
χ² / ndf 1298 / 47
p0 346 ± 0.3509
380
370
360
350
340
330
320
310
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

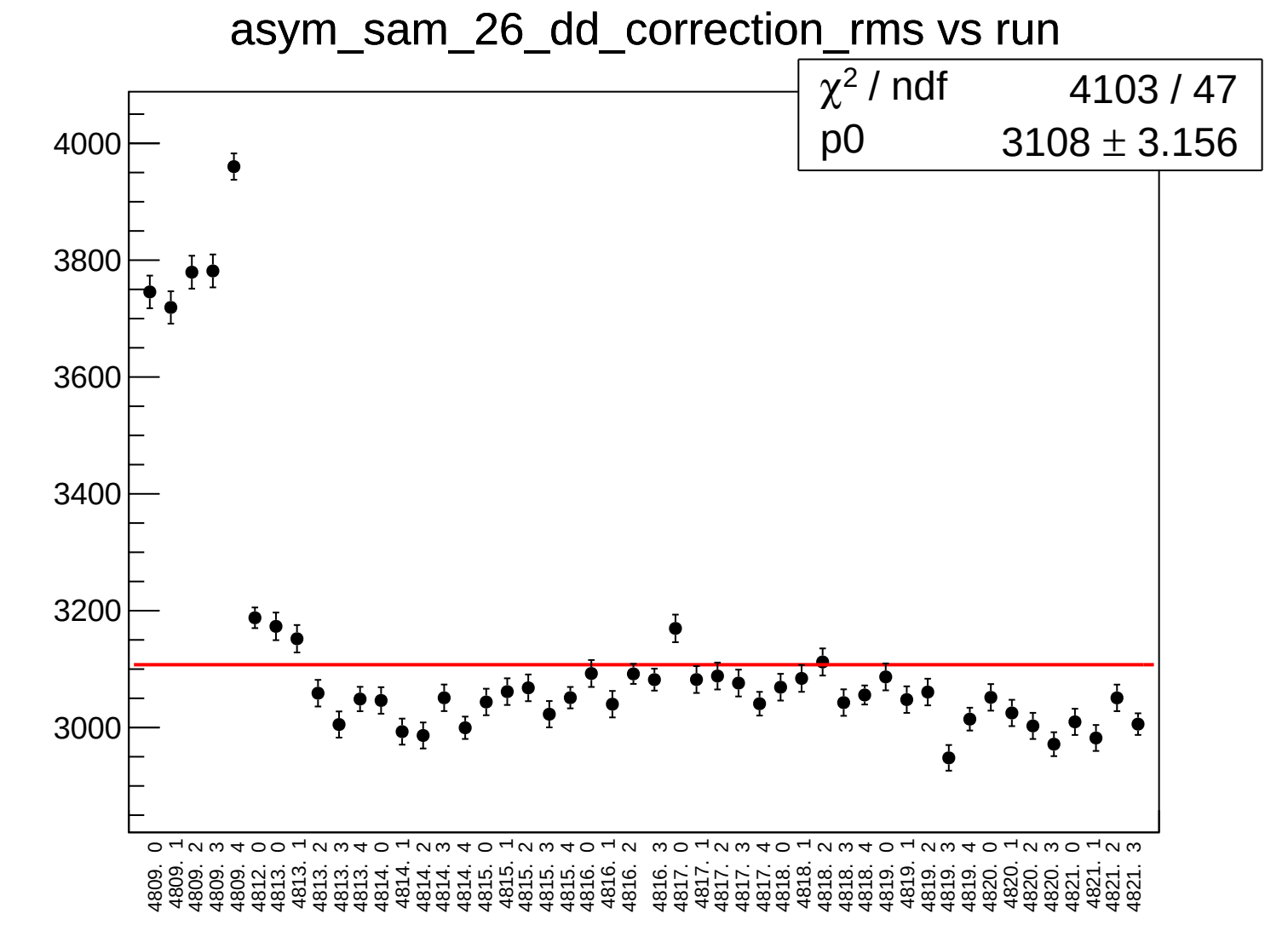

reg_asym_sam_26_dd_mean vs run
χ² / ndf 51.28 / 47
p0 −1347 ± 1840
40000
20000
0
−20000
−40000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean −1345
Std Dev 1376
2
1
0
−1
−2

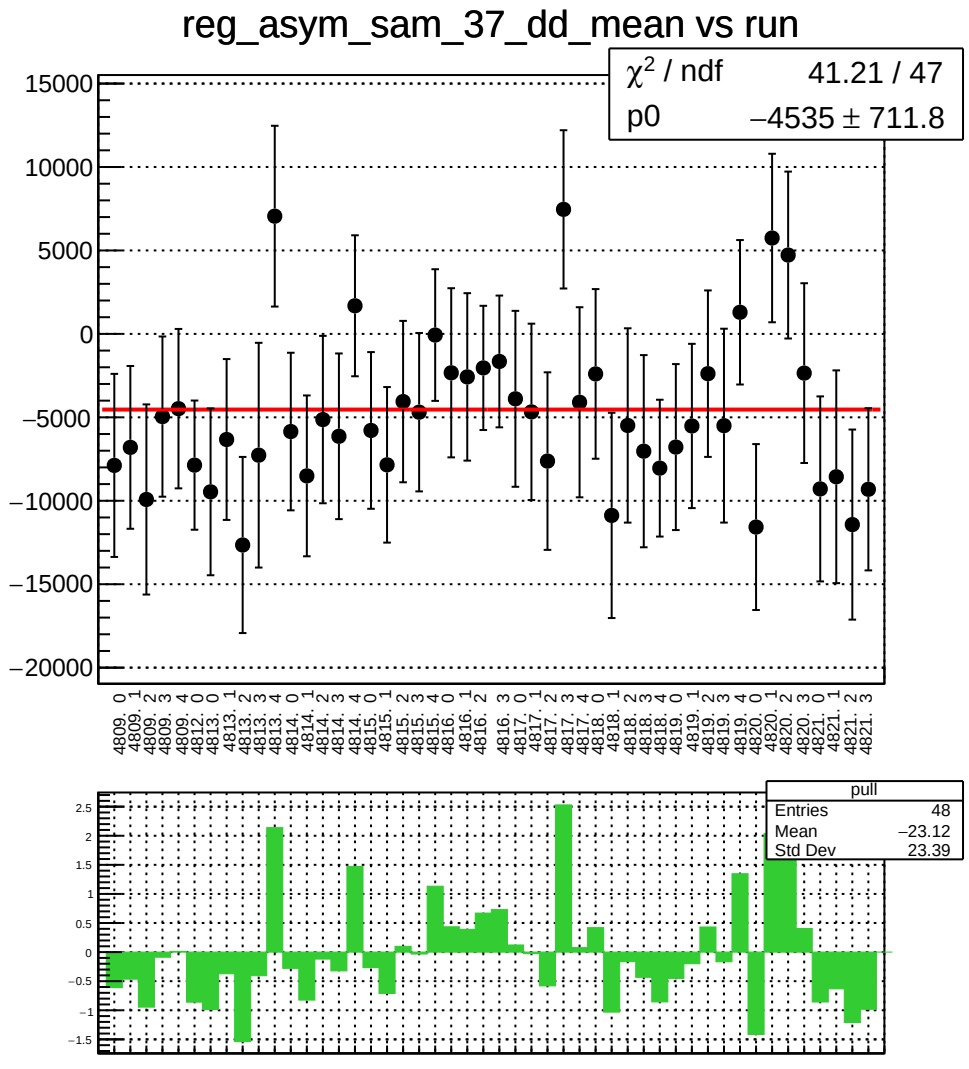

pull1D
Entries 48
Mean 0.001518
Std Dev 1.034
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

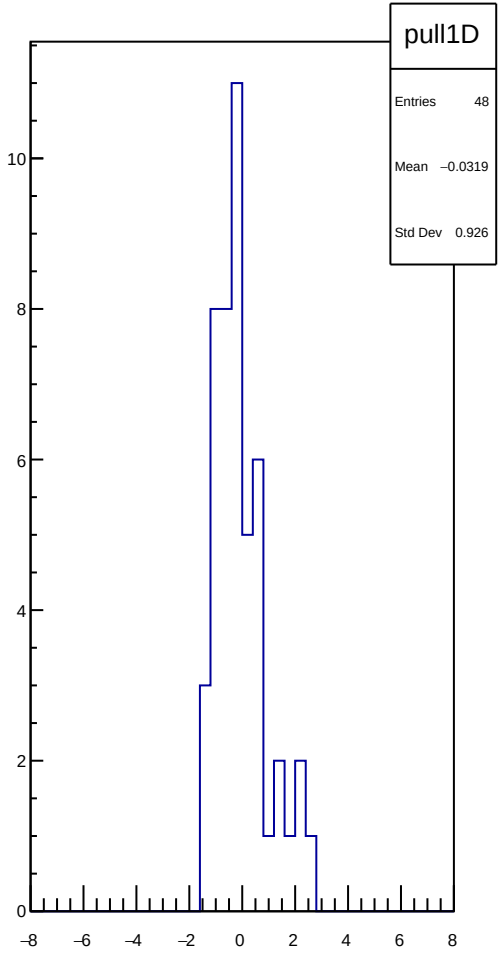

reg_asym_sam_26_dd_rms vs run
χ² / ndf 335.3 / 47
p0 1284 ± 1.301
1360
1340
1320
1300
1280
1260
1240
1220
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

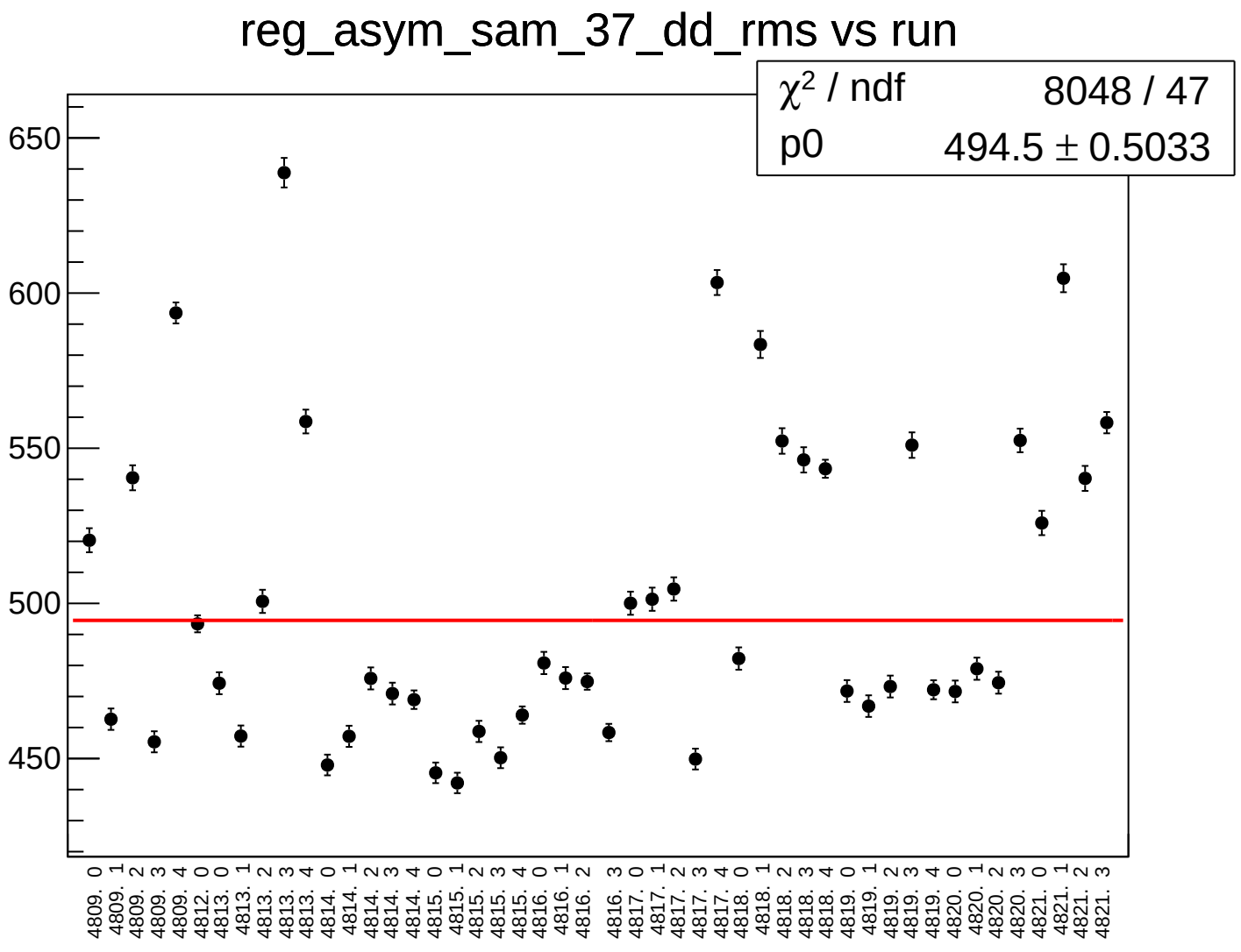

asym_sam_26_dd_correction_mean vs run
×10^3
χ² / ndf 42.15 / 47
p0 −1.531e+04 ± 4464
50
0
−50
−100
−150
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 95.77
Std Dev 58.56
1.5
1
0.5
0
−0.5
−1
−1.5
−2

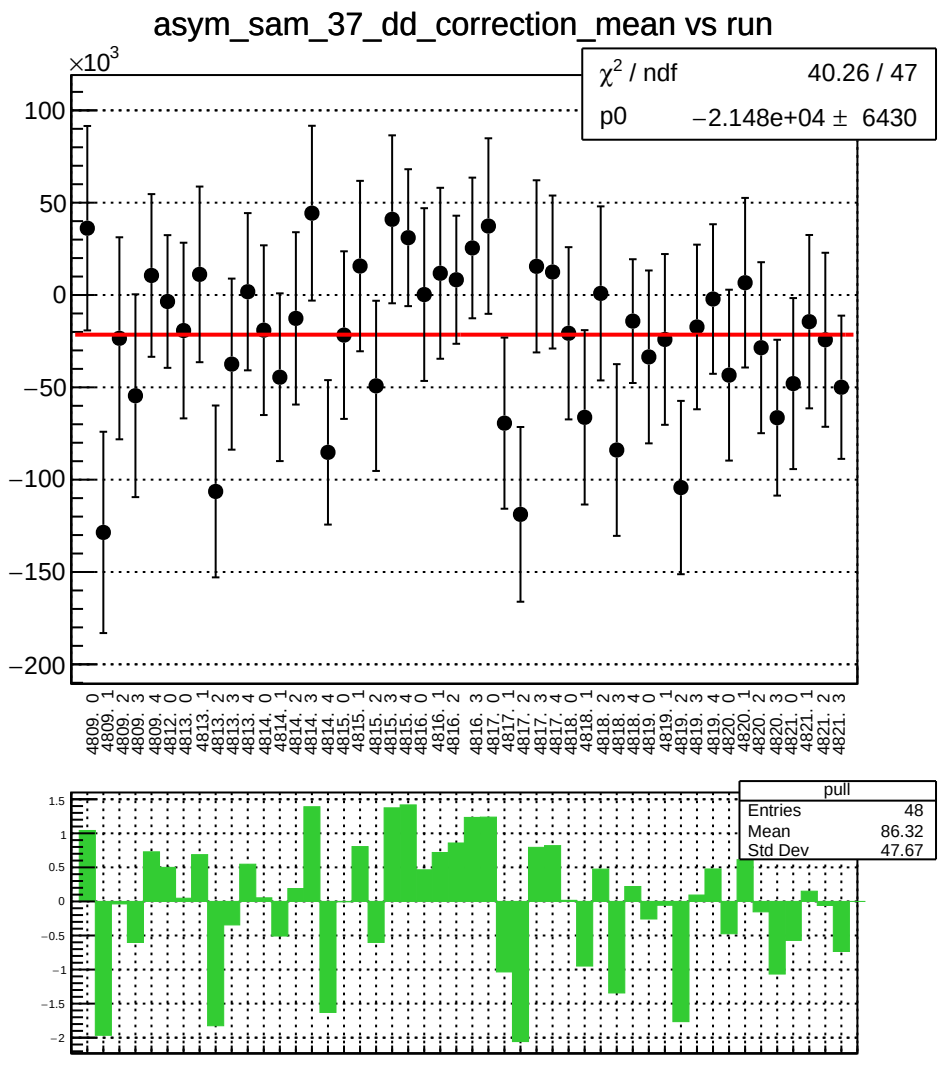

pull1D
Entries 48
Mean −0.0201
Std Dev 0.9369
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

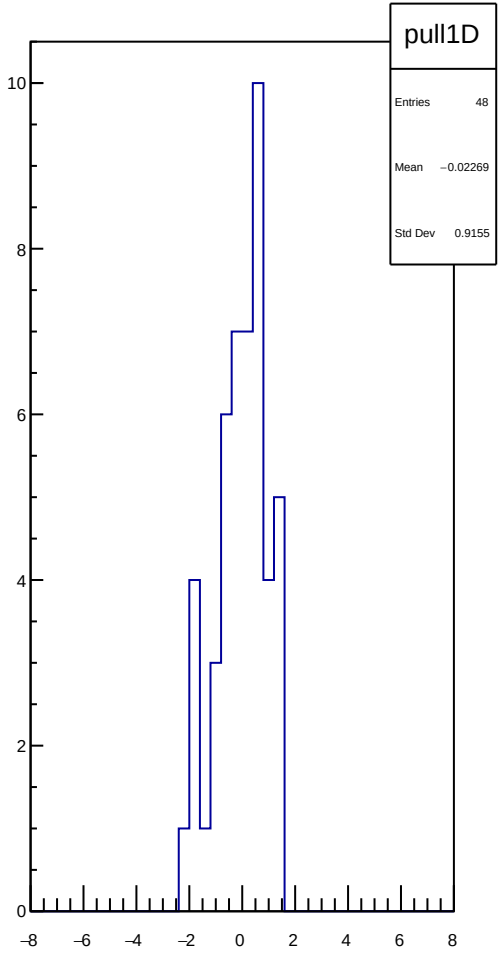

asym_sam_26_dd_correction_rms vs run
χ² / ndf 4103 / 47
p0 3108 ± 3.156
4000
3800
3600
3400
3200
3000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

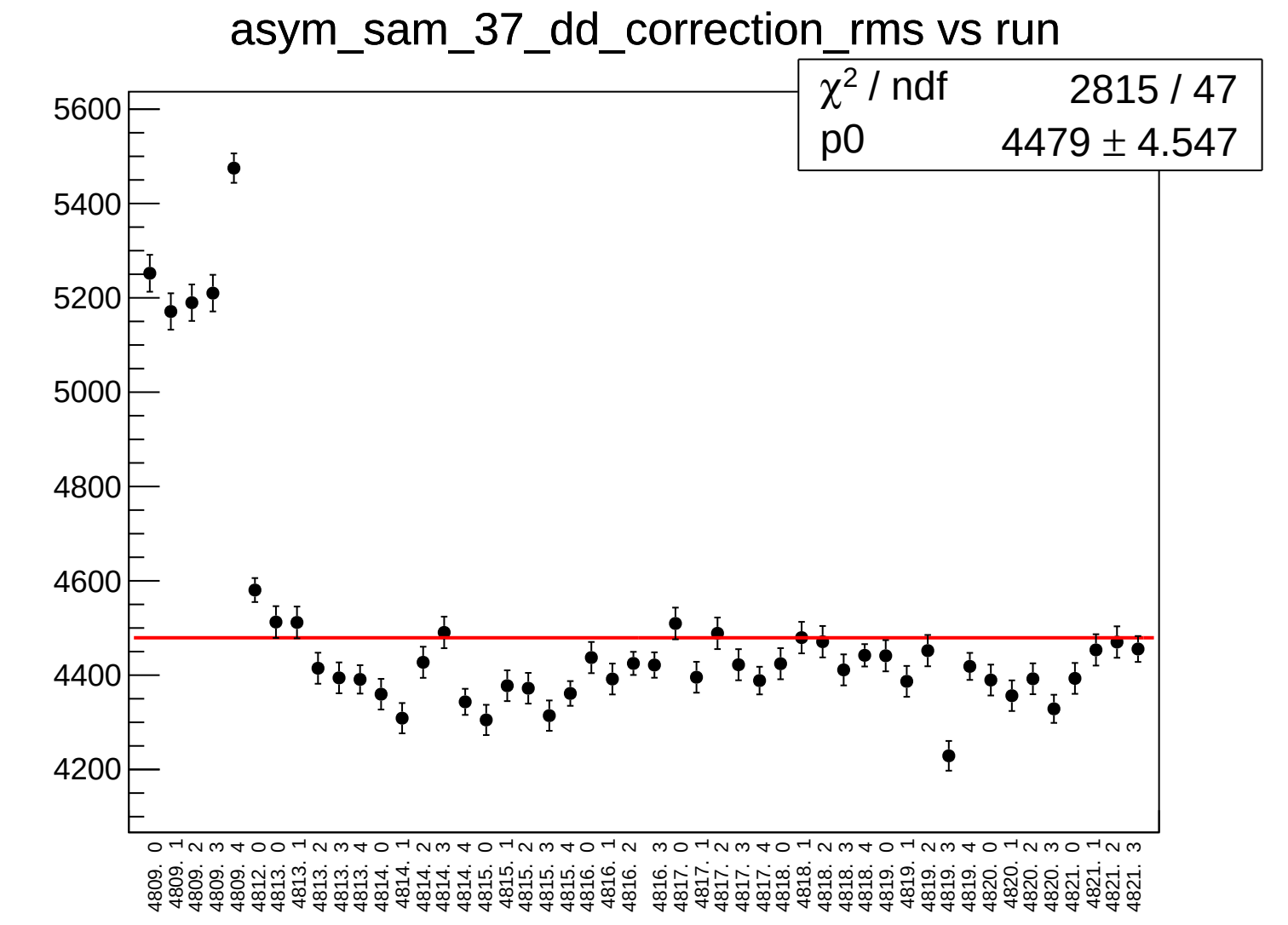

reg_asym_sam_37_dd_mean vs run
χ² / ndf 41.21 / 47
p0 −4535 ± 711.8
15000
10000
5000
0
−5000
−10000
−15000
−20000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean −23.12
Std Dev 23.39
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

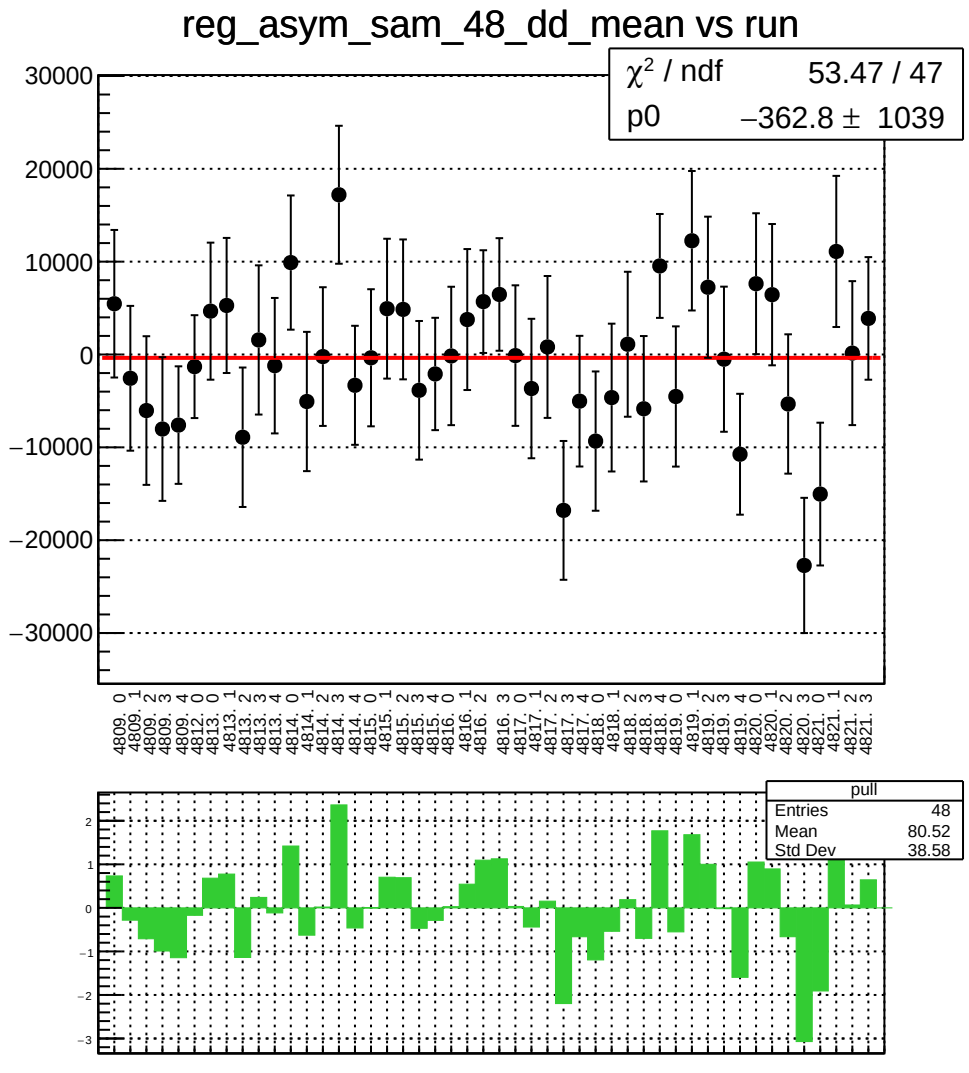

pull1D
Entries 48
Mean −0.0319
Std Dev 0.926
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

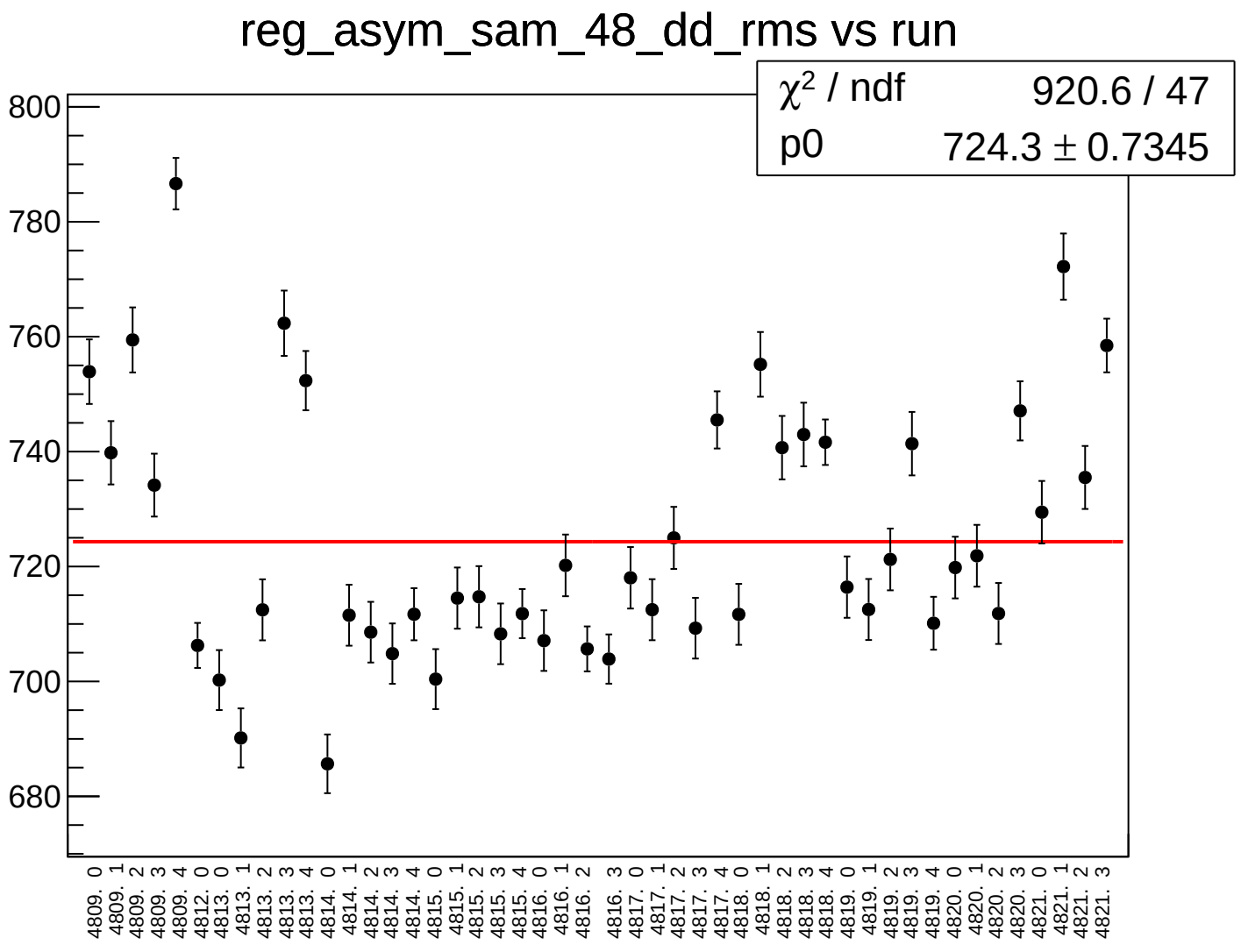

reg_asym_sam_37_dd_rms vs run
χ² / ndf 8048 / 47
p0 494.5 ± 0.5033
650
600
550
500
450
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

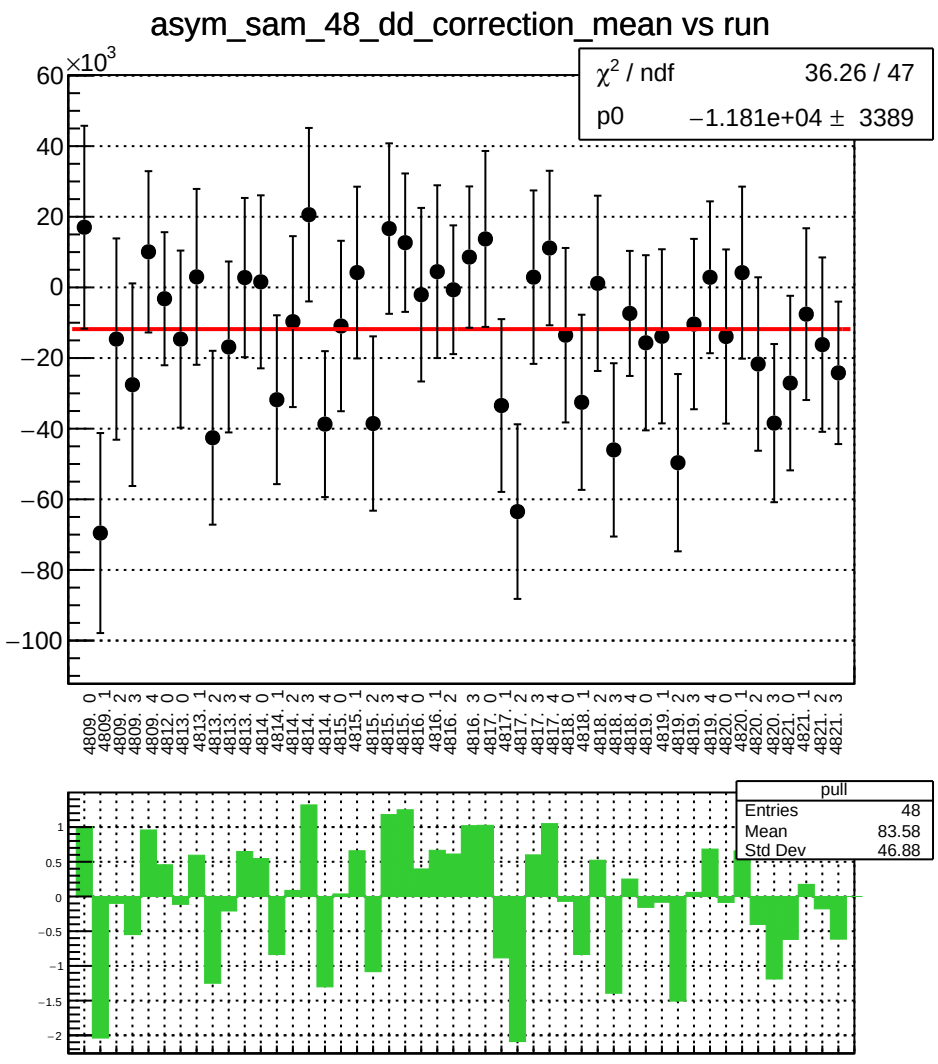

asym_sam_37_dd_correction_mean vs run
×10^3
χ² / ndf 40.26 / 47
p0 −2.148e+04 ± 6430
100
50
0
−50
−100
−150
−200
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 86.32
Std Dev 47.67
1.5
1
0.5
0
−0.5
−1
−1.5
−2

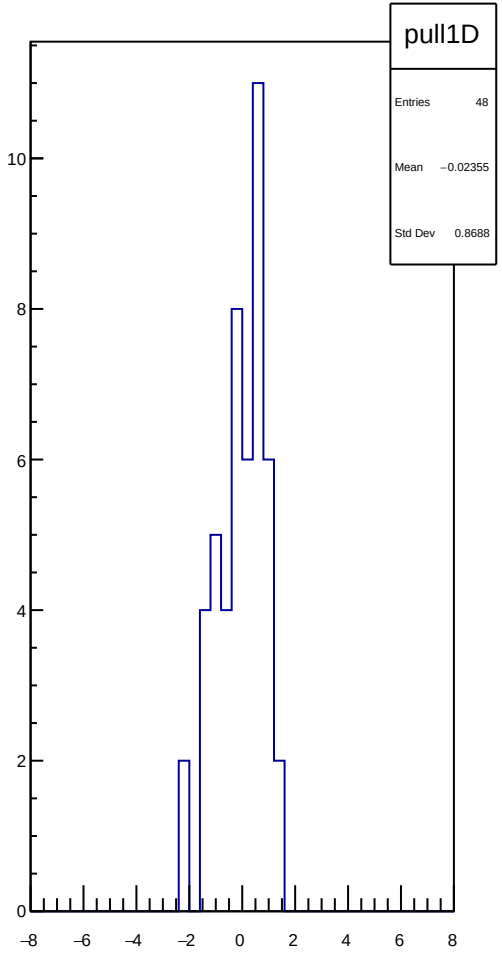

pull1D
Entries 48
Mean −0.02269
Std Dev 0.9155
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

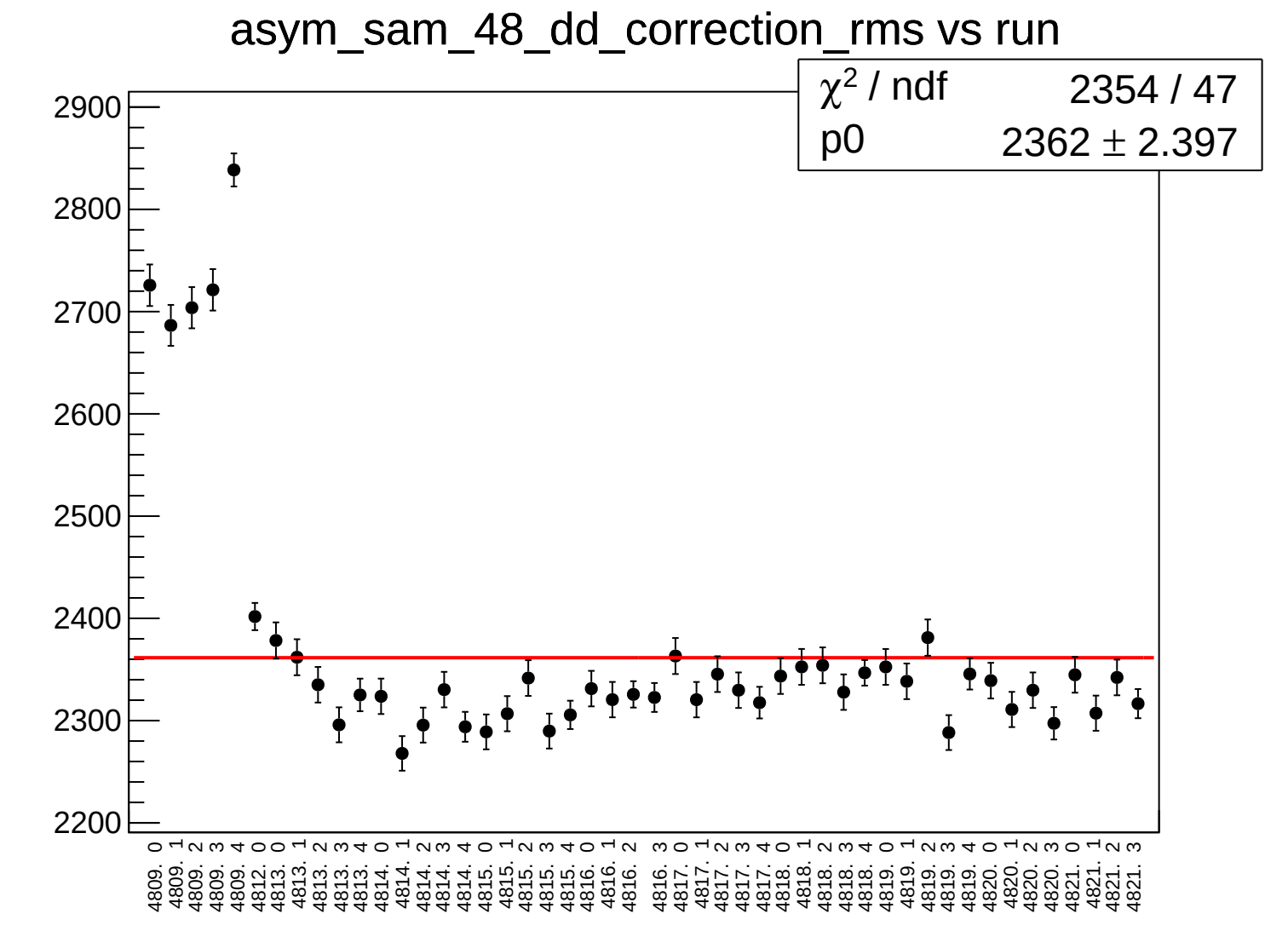

asym_sam_37_dd_correction_rms vs run
χ² / ndf 2815 / 47
p0 4479 ± 4.547
5600
5400
5200
5000
4800
4600
4400
4200
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

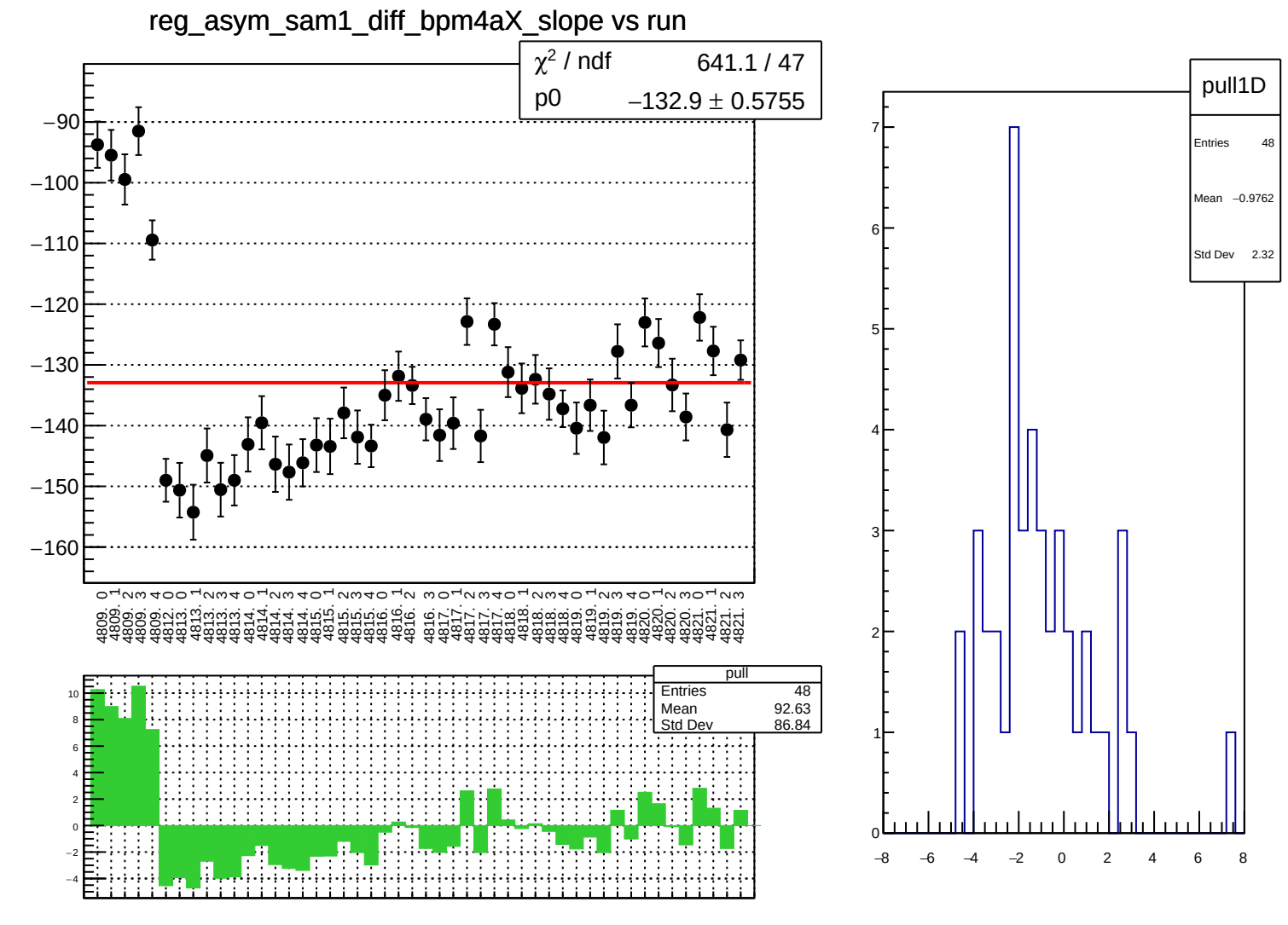

reg_asym_sam_48_dd_mean vs run
χ² / ndf 53.47 / 47
p0 −362.8 ± 1039
30000
20000
10000
0
−10000
−20000
−30000
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 80.52
Std Dev 38.58
2
1
0
−1
−2
−3
pull1D
Entries 48
Mean −0.01282
Std Dev 1.055
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

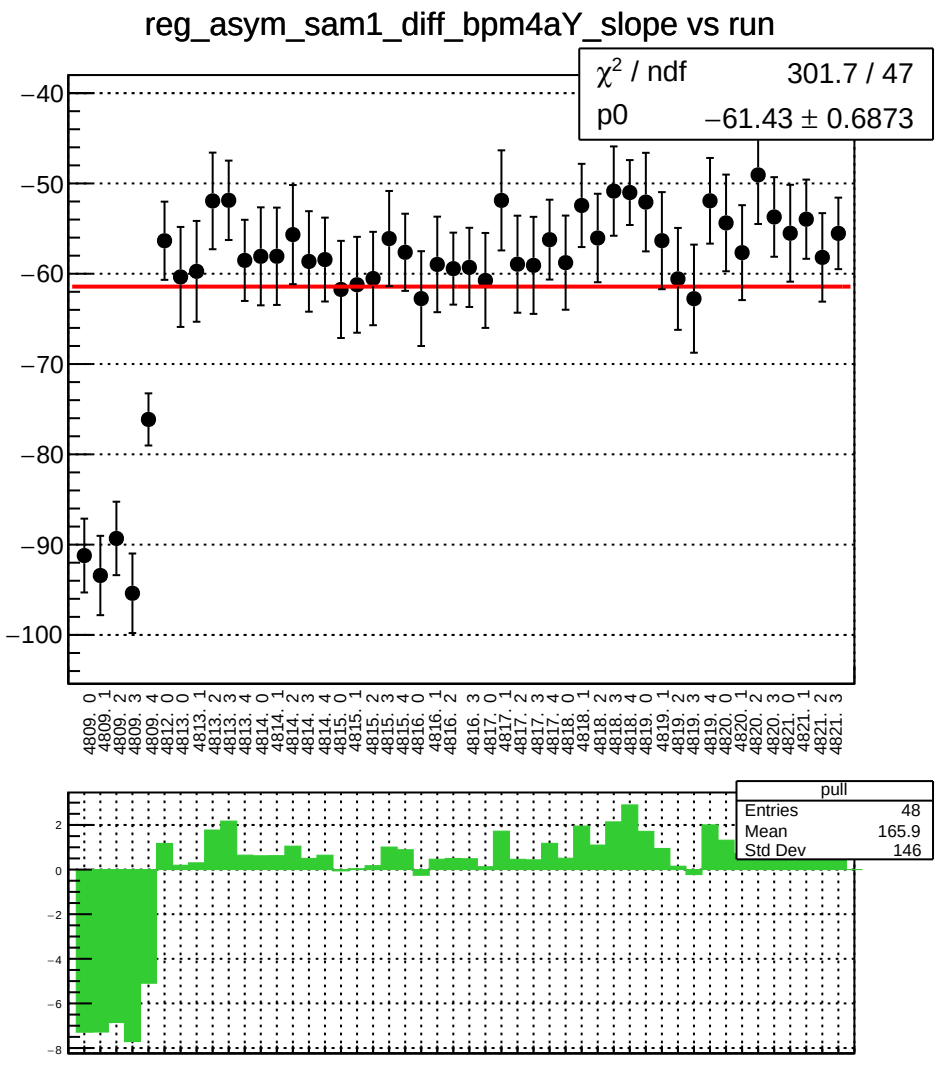

reg_asym_sam_48_dd_rms vs run
χ² / ndf 920.6 / 47
p0 724.3 ± 0.7345
800
780
760
740
720
700
680
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

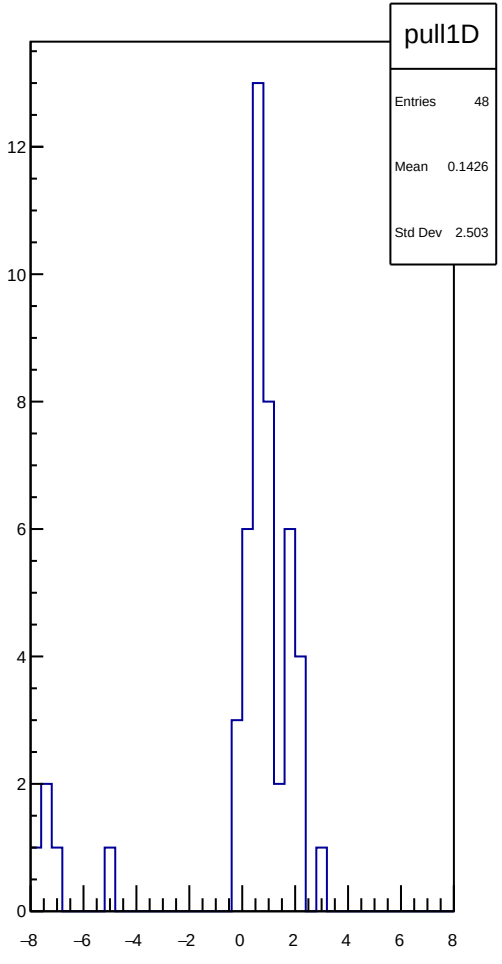

asym_sam_48_dd_correction_mean vs run
χ² / ndf 36.26 / 47
p0 −1.181e+04 ± 3389
×10³
pull
Entries 48
Mean 83.58
Std Dev 46.88

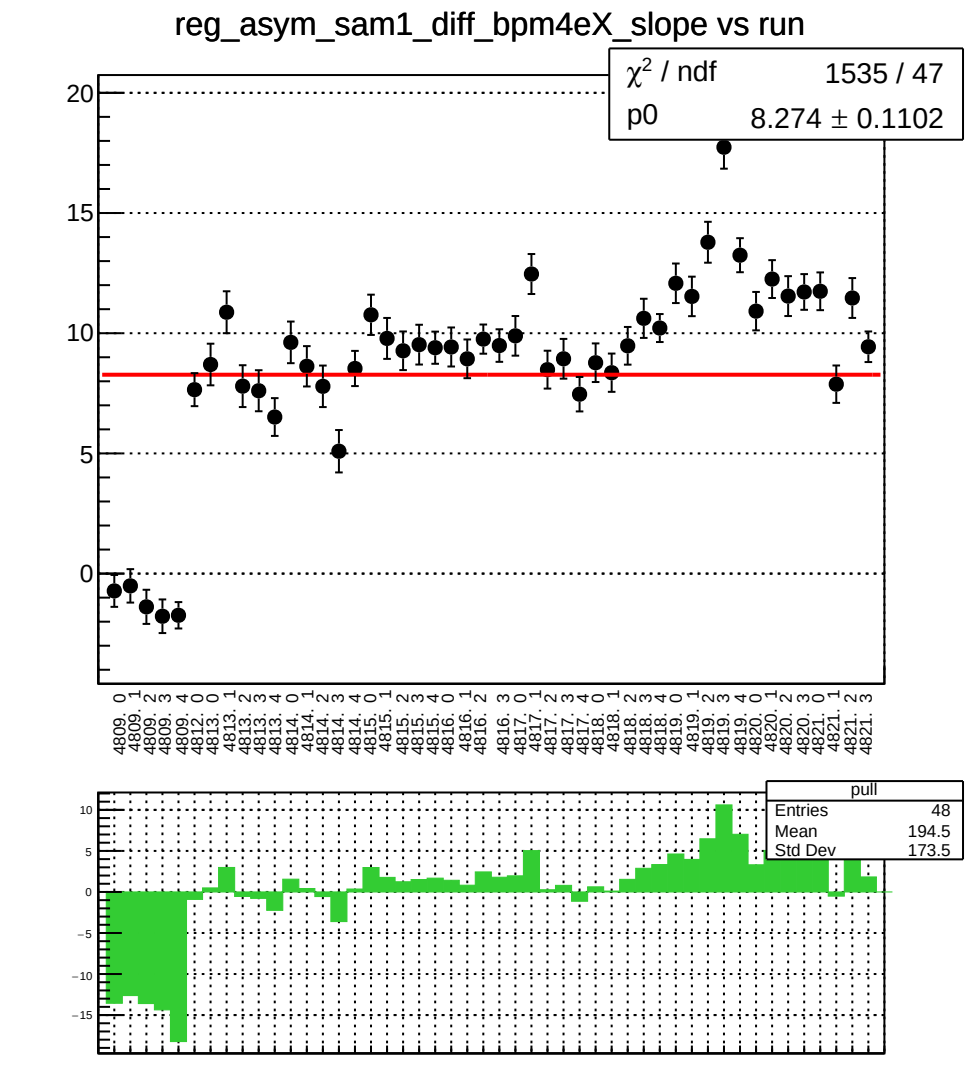

pull1D
Entries 48
Mean −0.02355
Std Dev 0.8688

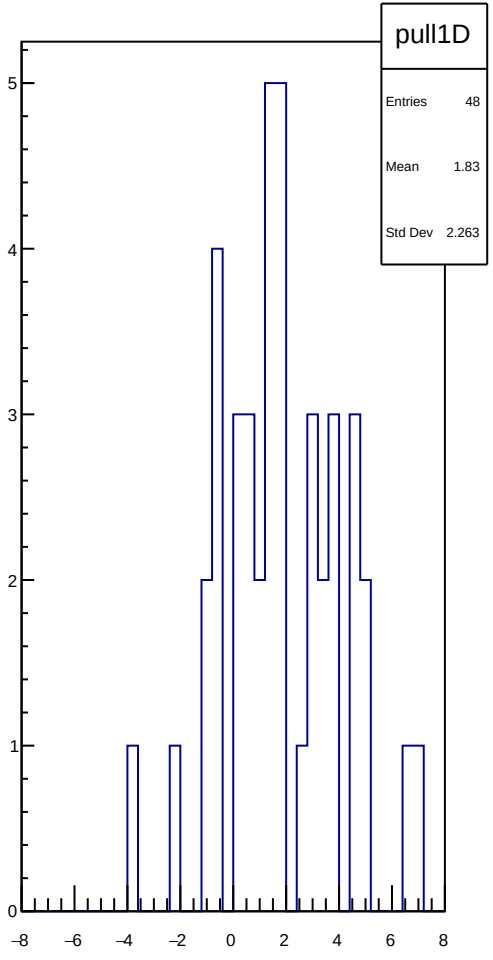

asym_sam_48_dd_correction_rms vs run
χ² / ndf 2354 / 47
p0 2362 ± 2.397
2900
2800
2700
2600
2500
2400
2300
2200
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3

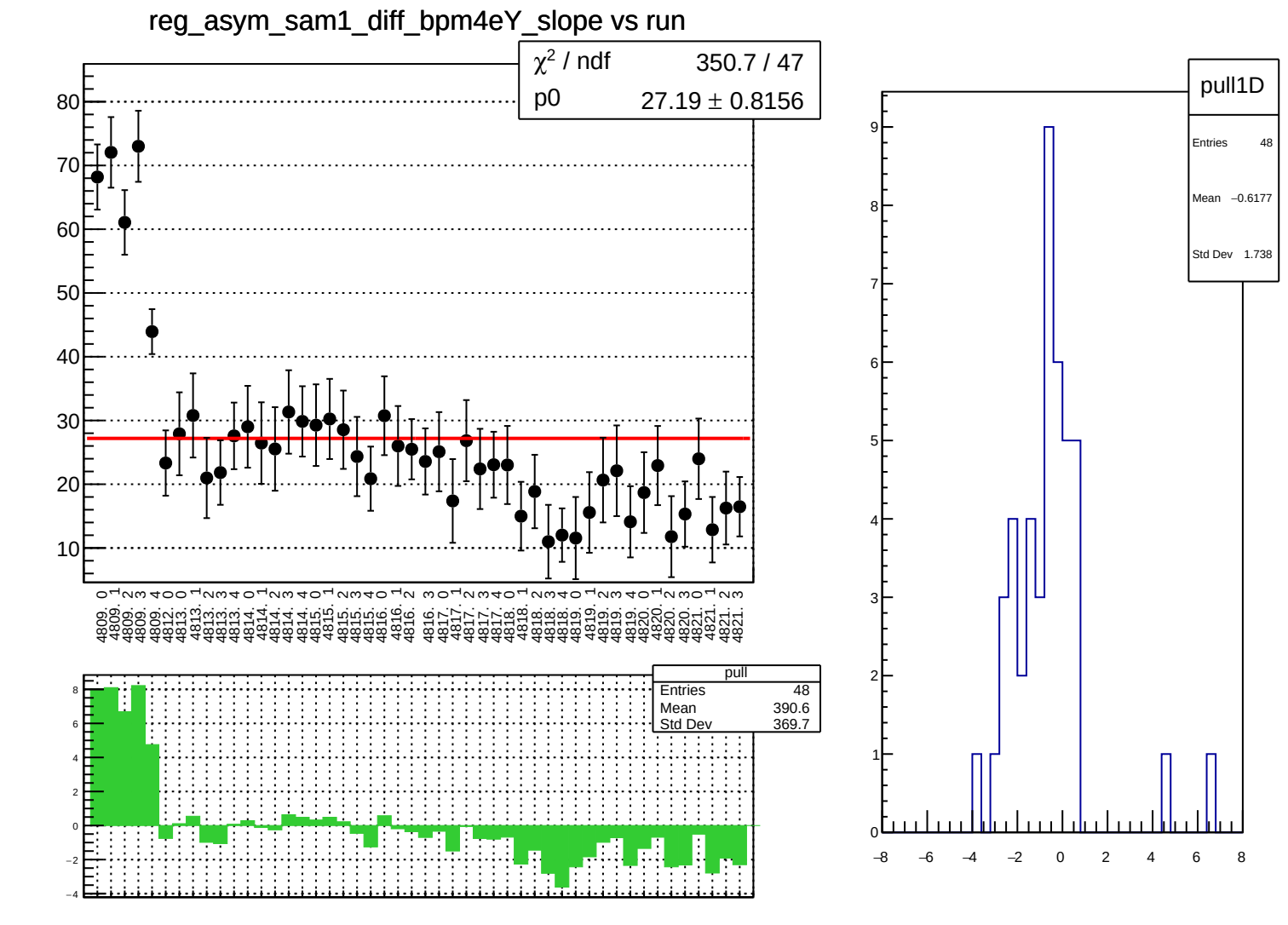

reg_asym_sam1_diff_bpm4aX_slope vs run
χ² / ndf 641.1 / 47
p0 −132.9 ± 0.5755
pull
Entries 48
Mean 92.63
Std Dev 86.84
pull1D
Entries 48
Mean −0.9762
Std Dev 2.32

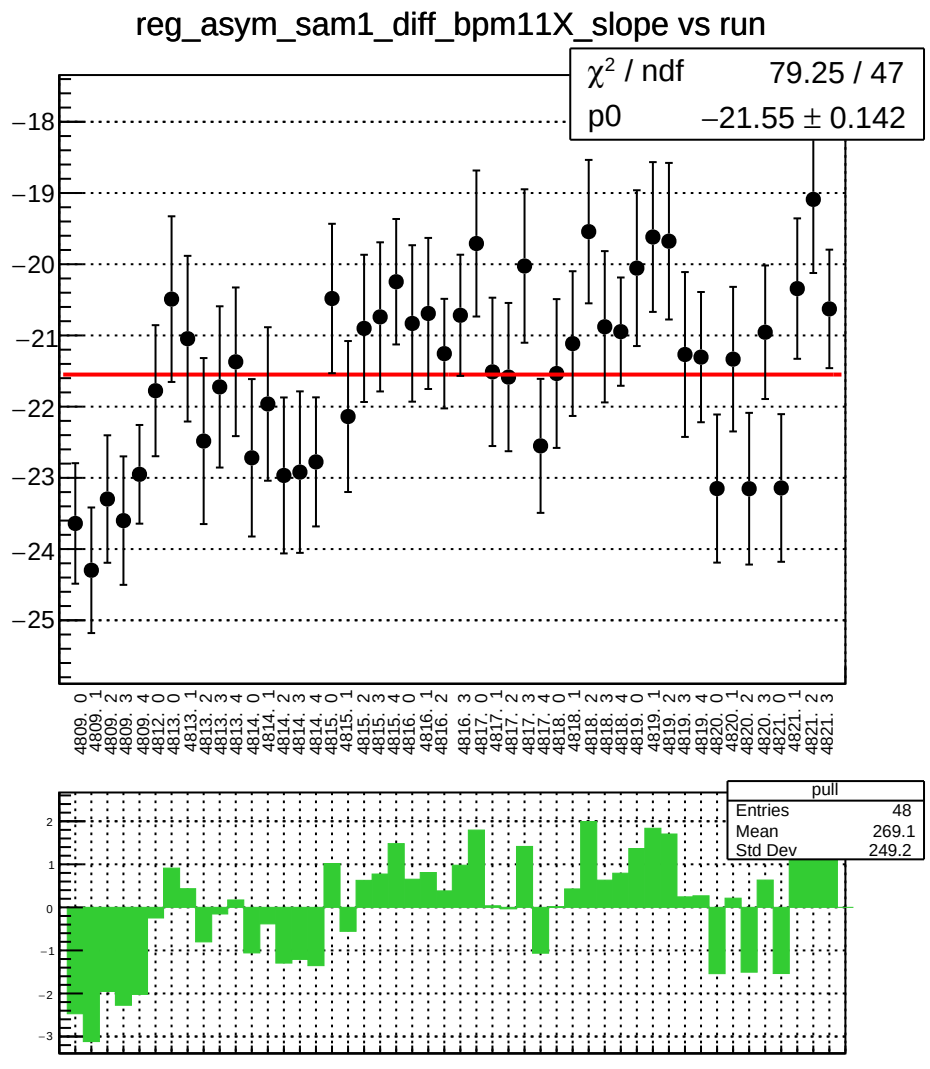

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 301.7 / 47
p0 −61.43 ± 0.6873
pull
Entries 48
Mean 165.9
Std Dev 146

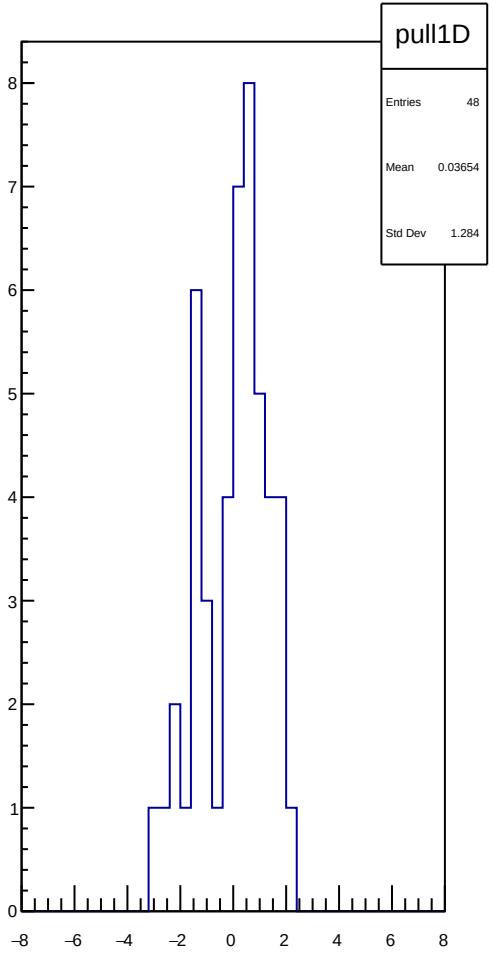

pull1D
Entries 48
Mean 0.1426
Std Dev 2.503

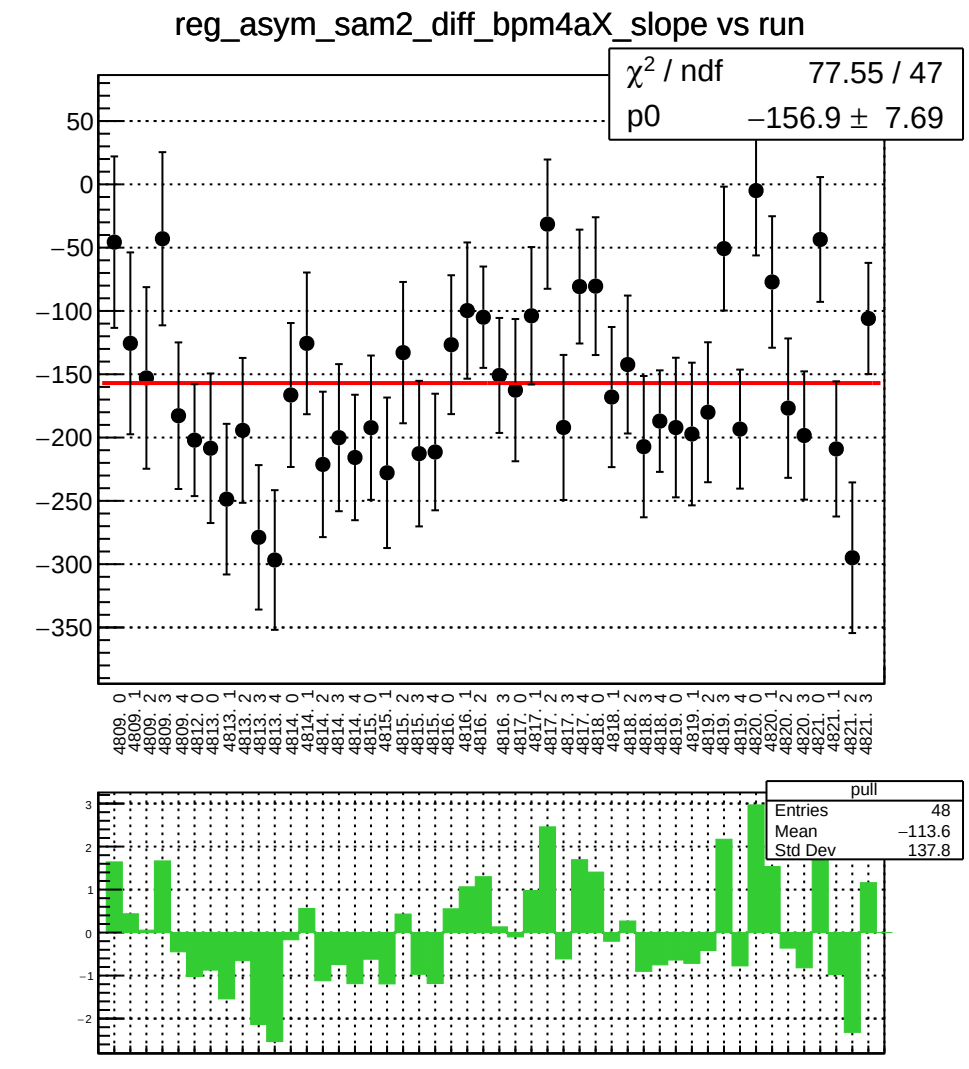

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 1535 / 47
p0 8.274 ± 0.1102
pull
Entries 48
Mean 194.5
Std Dev 173.5

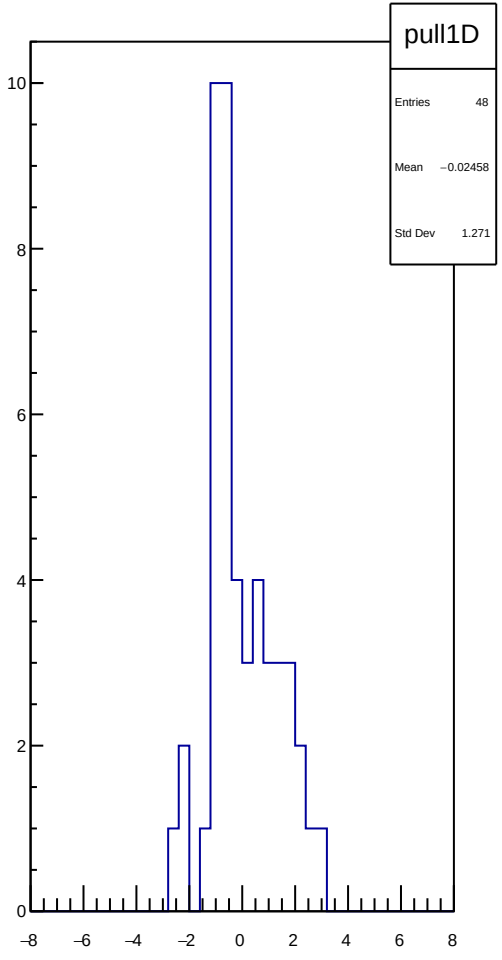

pull1D
Entries 48
Mean 1.83
Std Dev 2.263

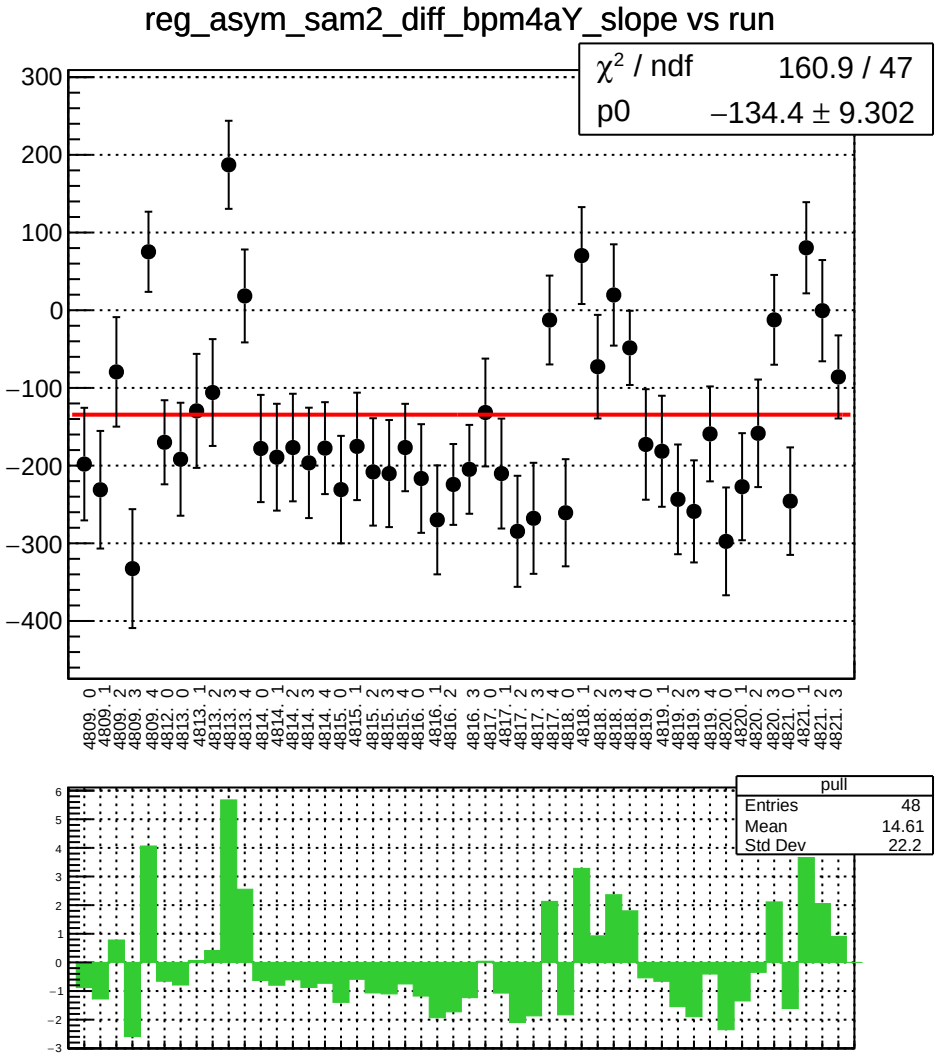

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 350.7 / 47
p0 27.19 ± 0.8156
pull
Entries 48
Mean 390.6
Std Dev 369.7
pull1D
Entries 48
Mean −0.6177
Std Dev 1.738

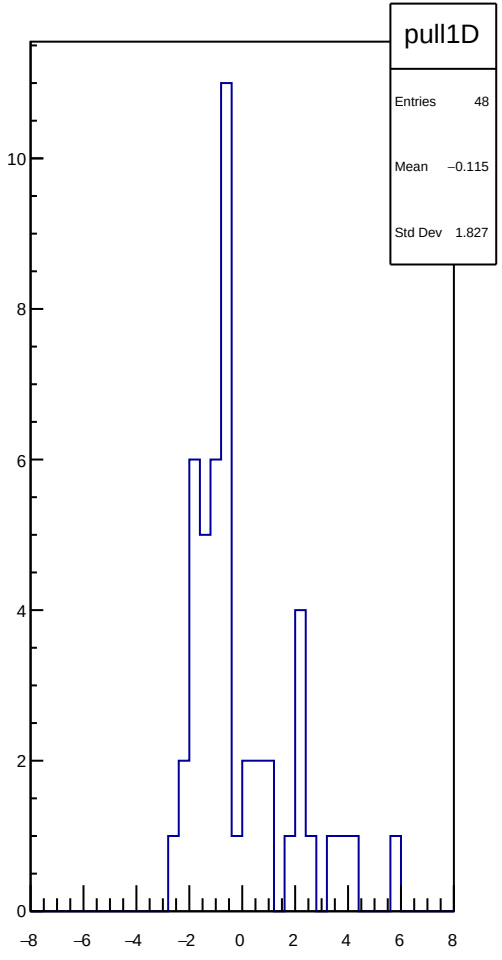

reg_asym_sam1_diff_bpm11X_slope vs run
χ² / ndf 79.25 / 47
p0 −21.55 ± 0.142
pull
Entries 48
Mean 269.1
Std Dev 249.2

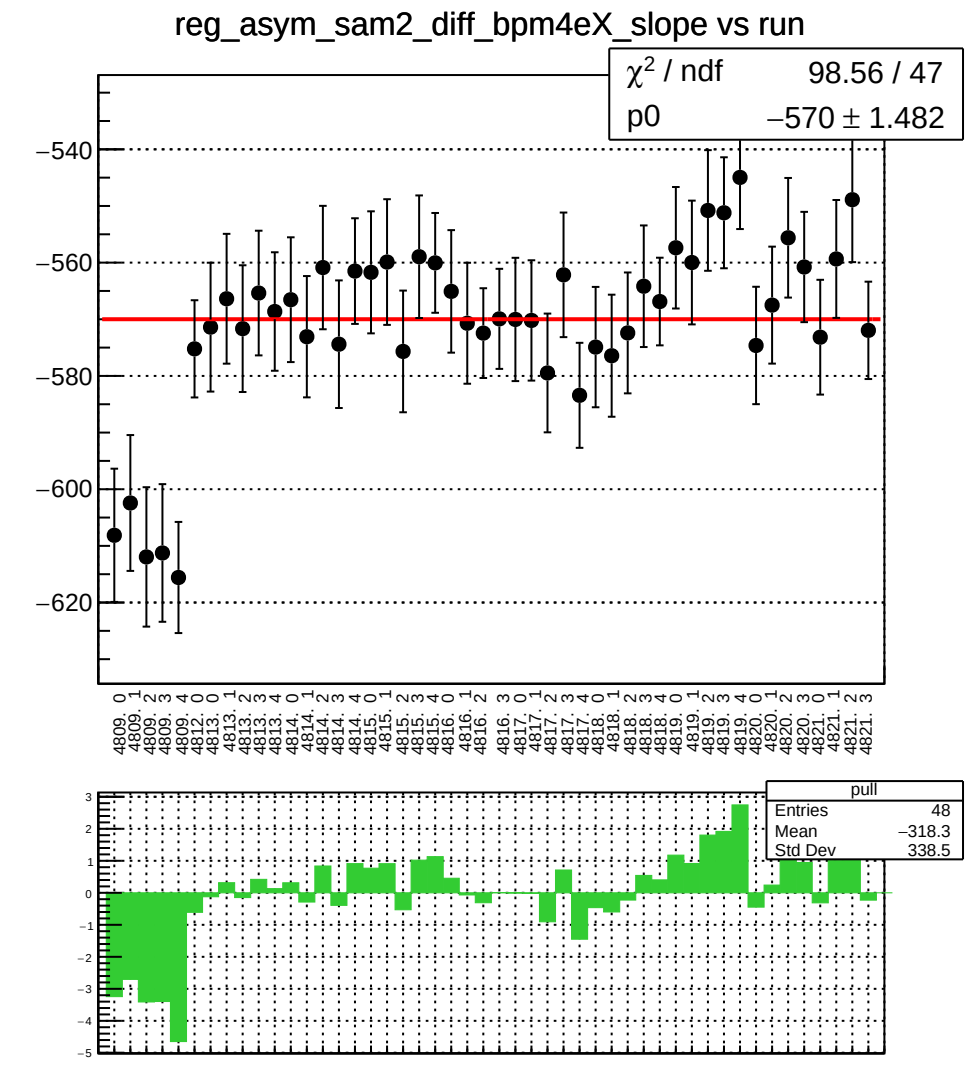

pull1D
Entries 48
Mean 0.03654
Std Dev 1.284

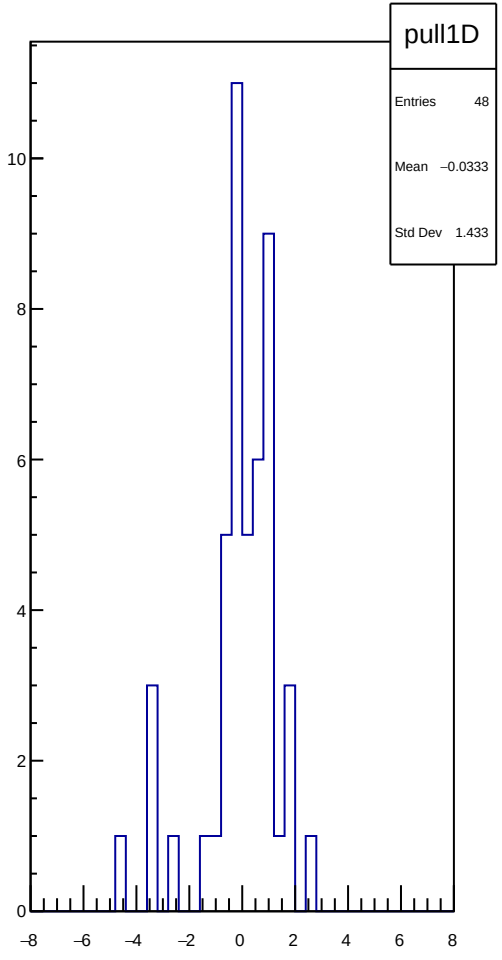

reg_asym_sam2_diff_bpm4aX_slope vs run
χ² / ndf 77.55 / 47
p0 −156.9 ± 7.69
pull
Entries 48
Mean −113.6
Std Dev 137.8

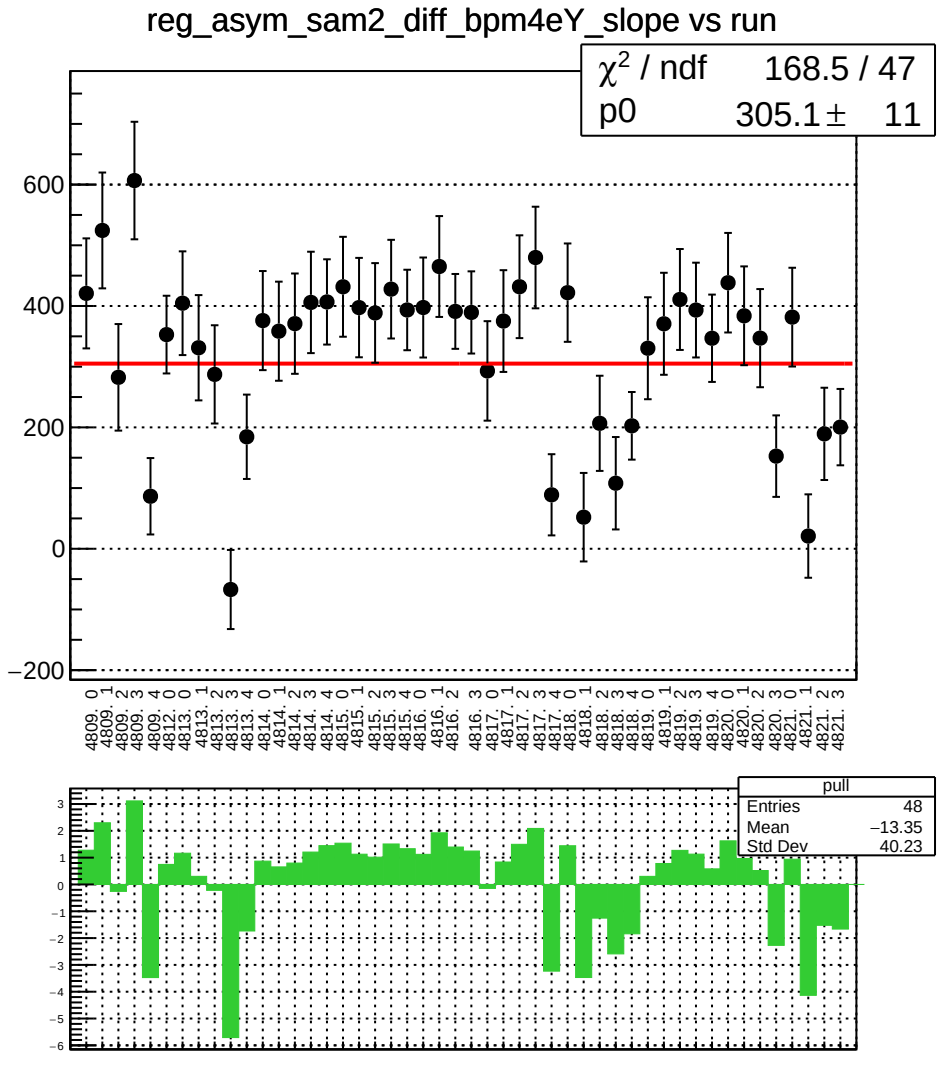

pull1D
Entries 48
Mean −0.02458
Std Dev 1.271

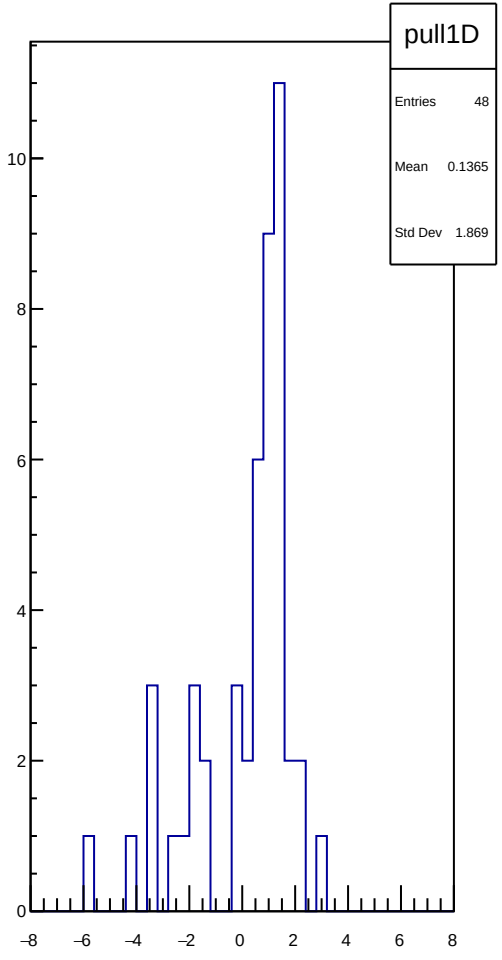

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 160.9 / 47
p0 −134.4 ± 9.302
pull
Entries 48
Mean 14.61
Std Dev 22.2

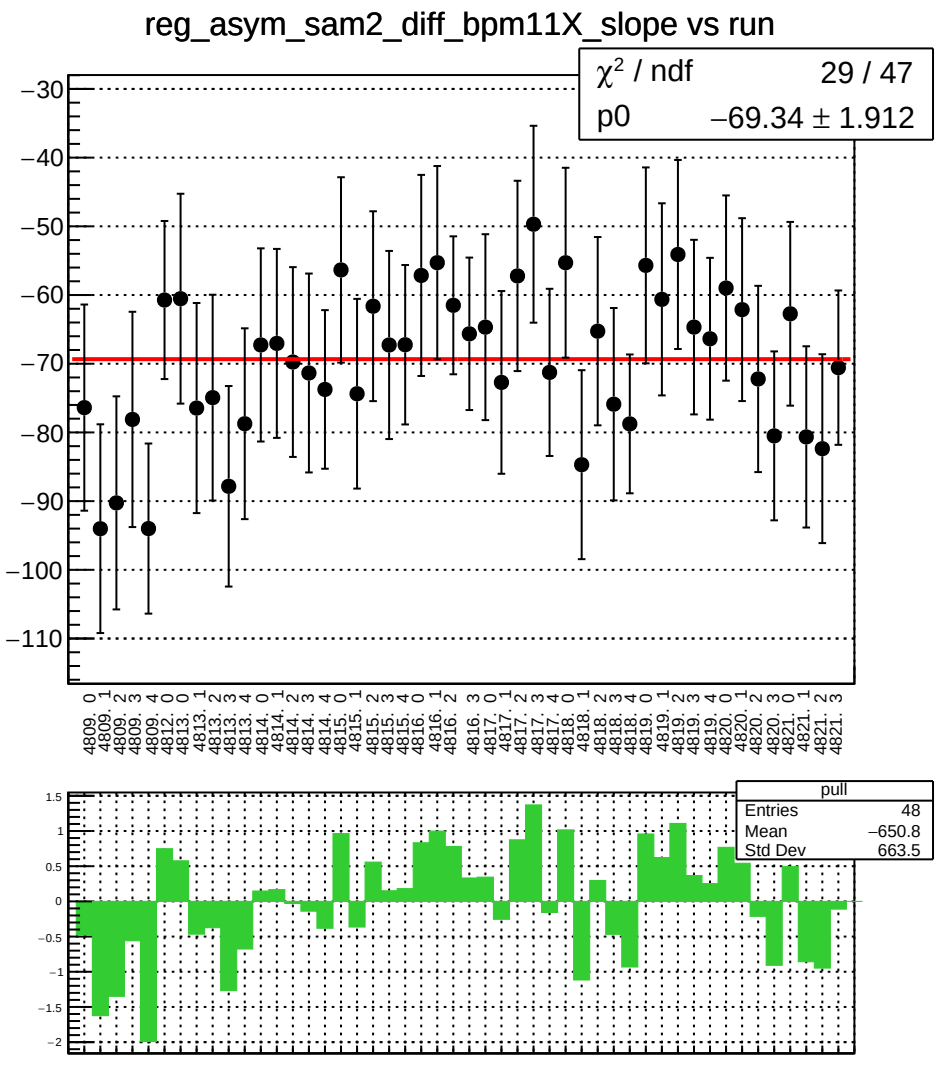

pull1D
Entries 48
Mean −0.115
Std Dev 1.827

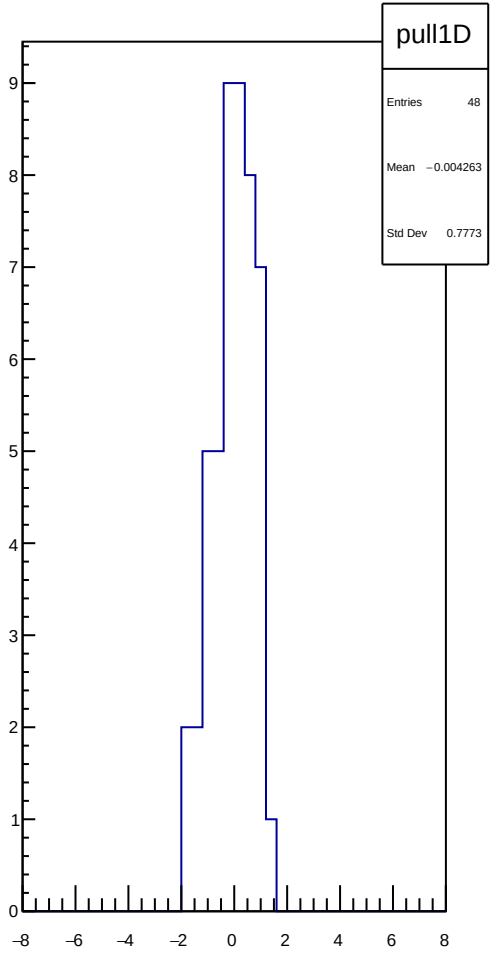

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 98.56 / 47
p0 −570 ± 1.482
−540
−560
−580
−600
−620
pull
Entries 48
Mean −318.3
Std Dev 338.5
3
2
1
0
−1
−2
−3
−4
−5

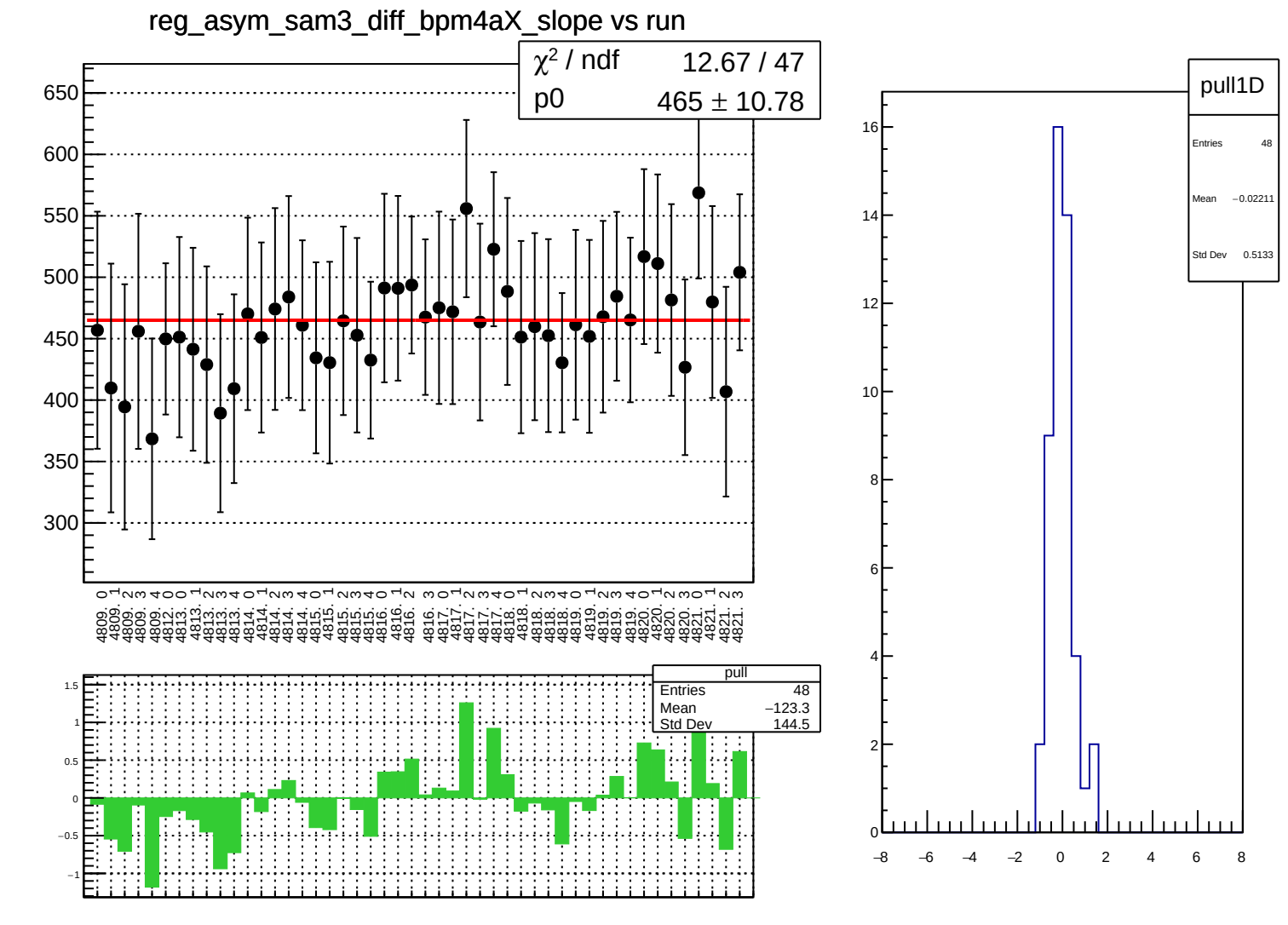

pull1D
Entries 48
Mean −0.0333
Std Dev 1.433
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

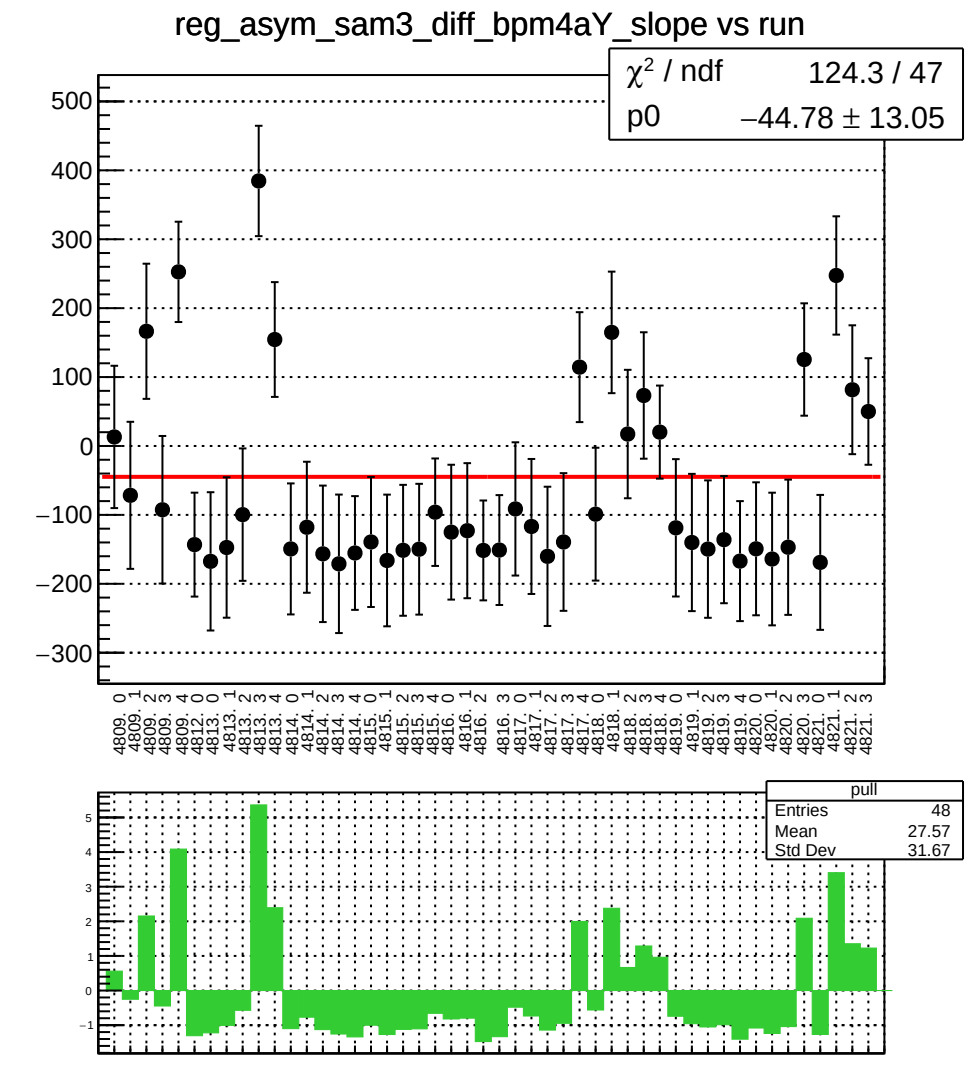

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 168.5 / 47
p0 305.1 ± 11
600
400
200
0
−200
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean −13.35
Std Dev 40.23
3
2
1
0
−1
−2
−3
−4
−5
−6

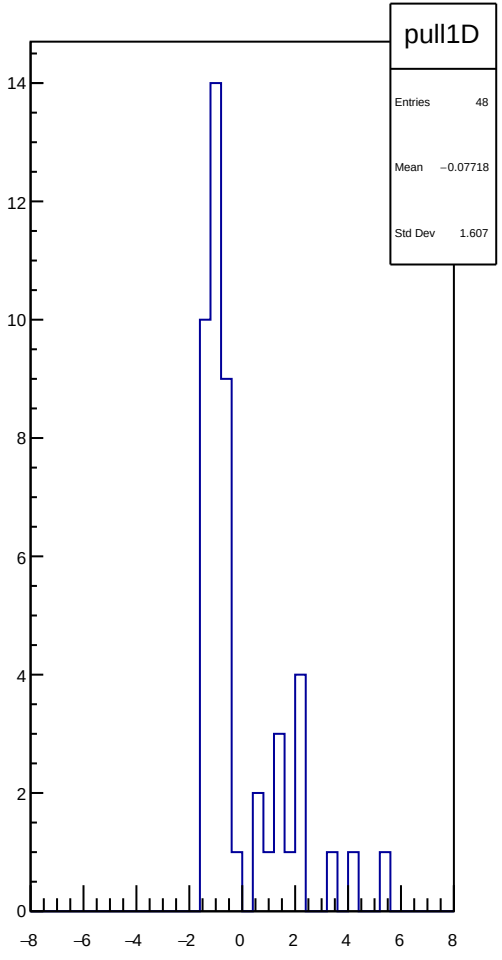

pull1D
Entries 48
Mean 0.1365
Std Dev 1.869
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

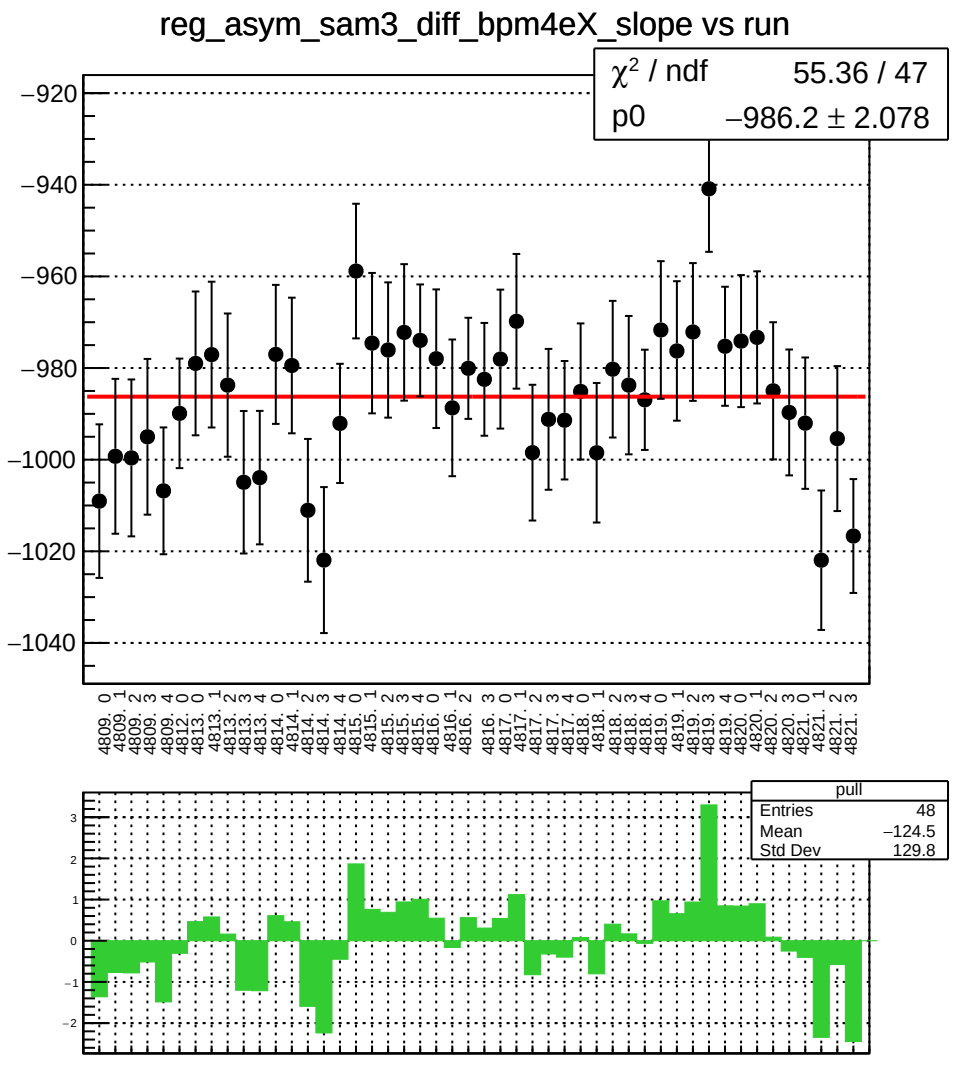

reg_asym_sam2_diff_bpm11X_slope vs run
χ² / ndf 29 / 47
p0 −69.34 ± 1.912
pull
Entries 48
Mean −650.8
Std Dev 663.5

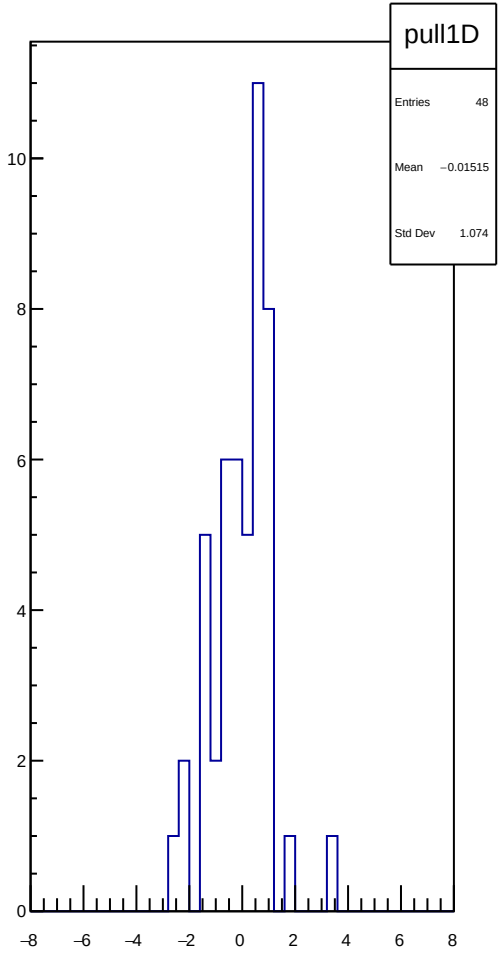

pull1D
Entries 48
Mean −0.004263
Std Dev 0.7773

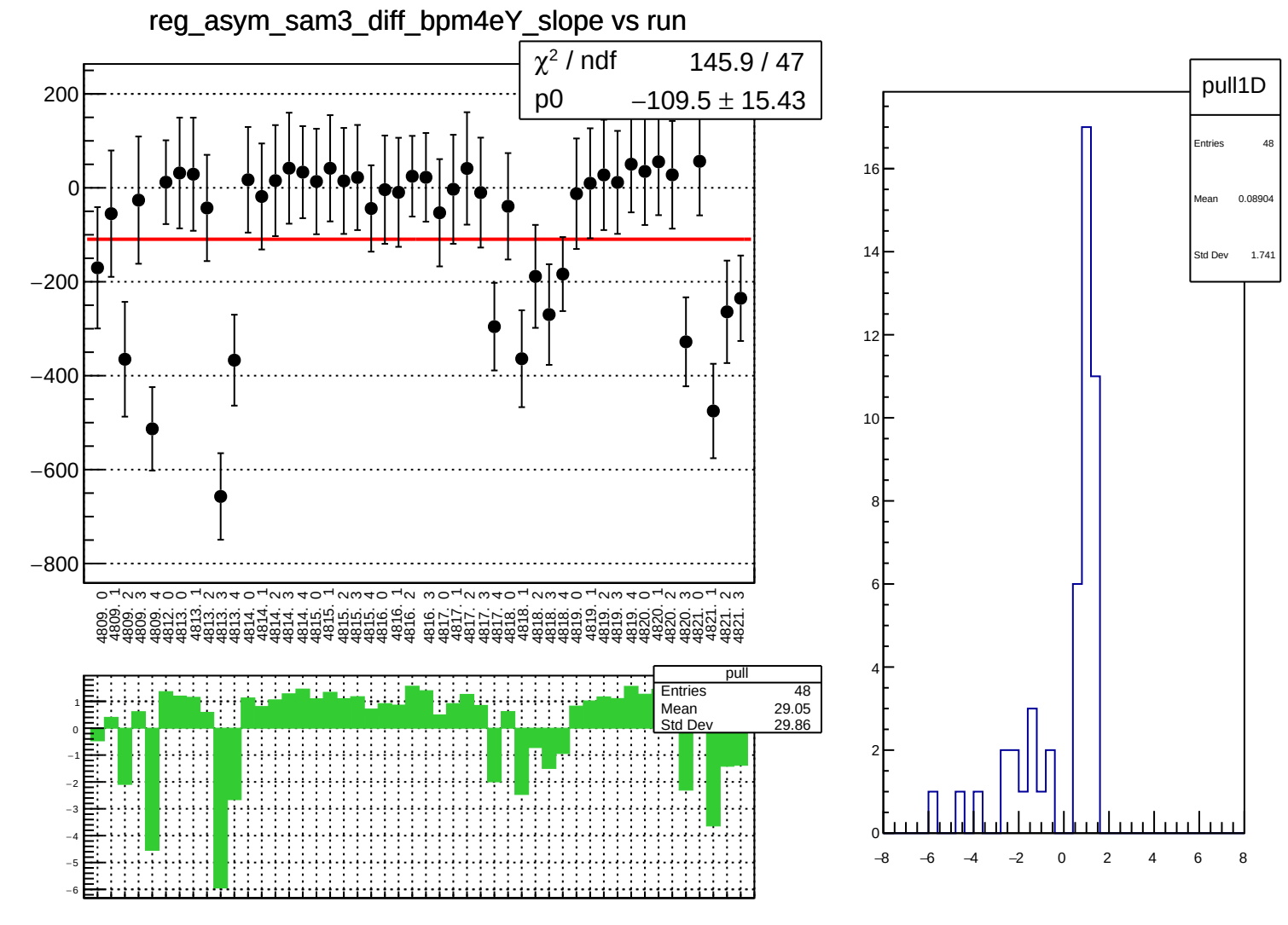

reg_asym_sam3_diff_bpm4aX_slope vs run
χ² / ndf 12.67 / 47
p0 465 ± 10.78
pull
Entries 48
Mean −123.3
Std Dev 144.5
pull1D
Entries 48
Mean −0.02211
Std Dev 0.5133

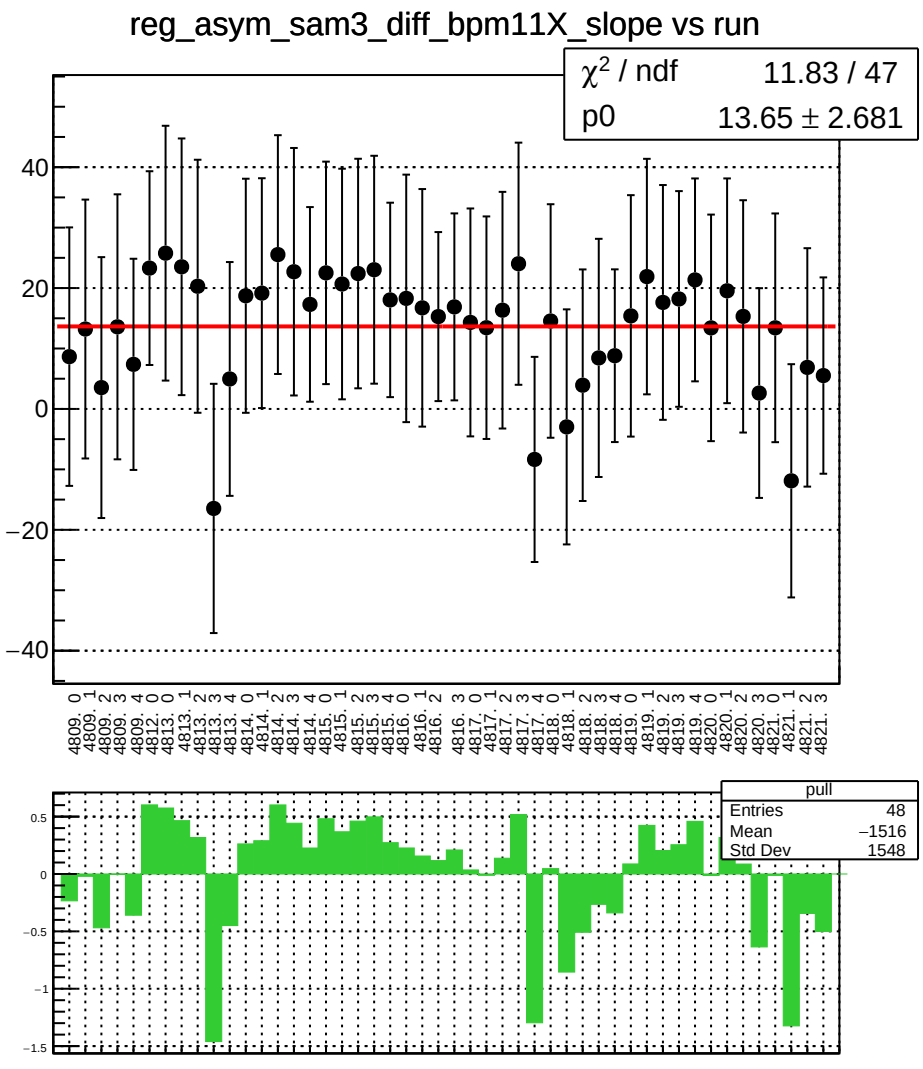

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 124.3 / 47
p0 −44.78 ± 13.05
pull
Entries 48
Mean 27.57
Std Dev 31.67

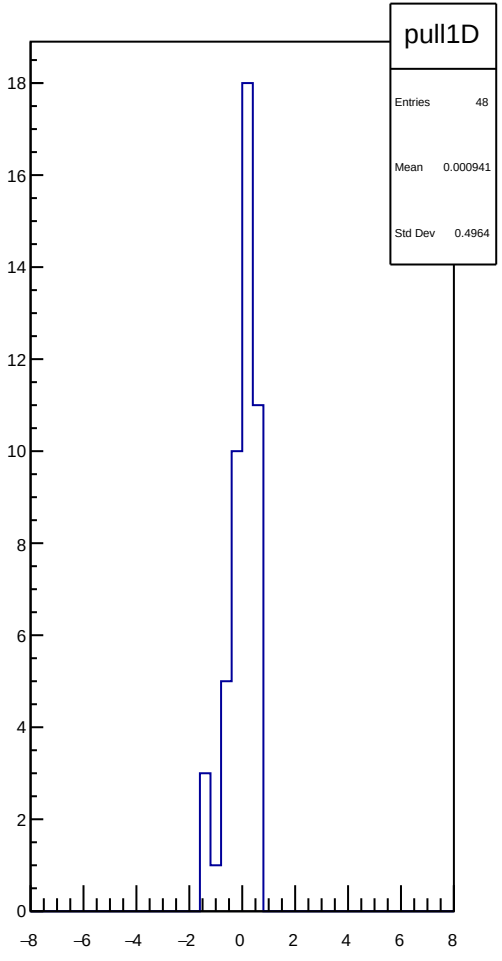

pull1D
Entries 48
Mean −0.07718
Std Dev 1.607

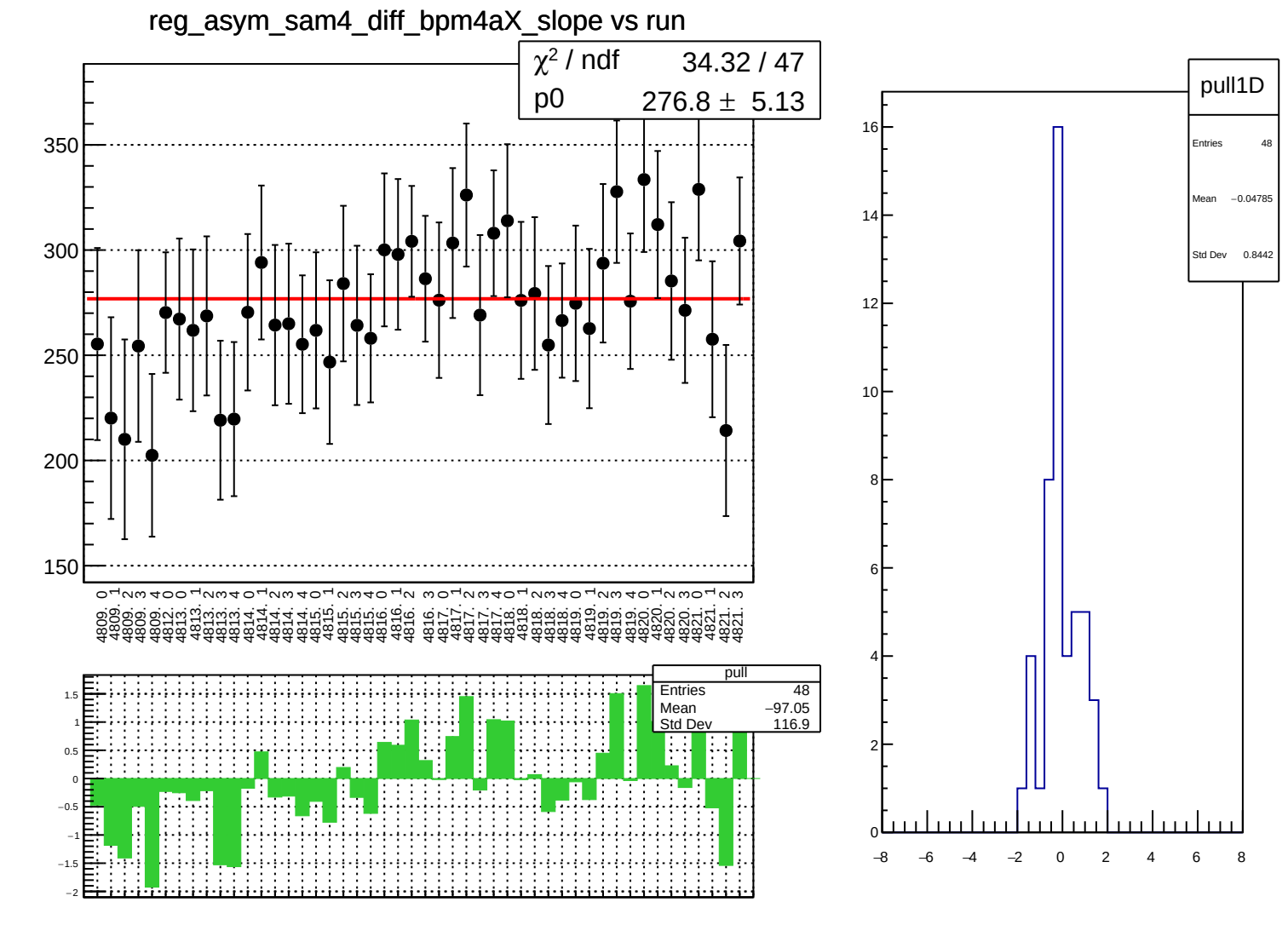

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 55.36 / 47
p0 −986.2 ± 2.078
−920
−940
−960
−980
−1000
−1020
−1040
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean −124.5
Std Dev 129.8
3
2
1
0
−1
−2

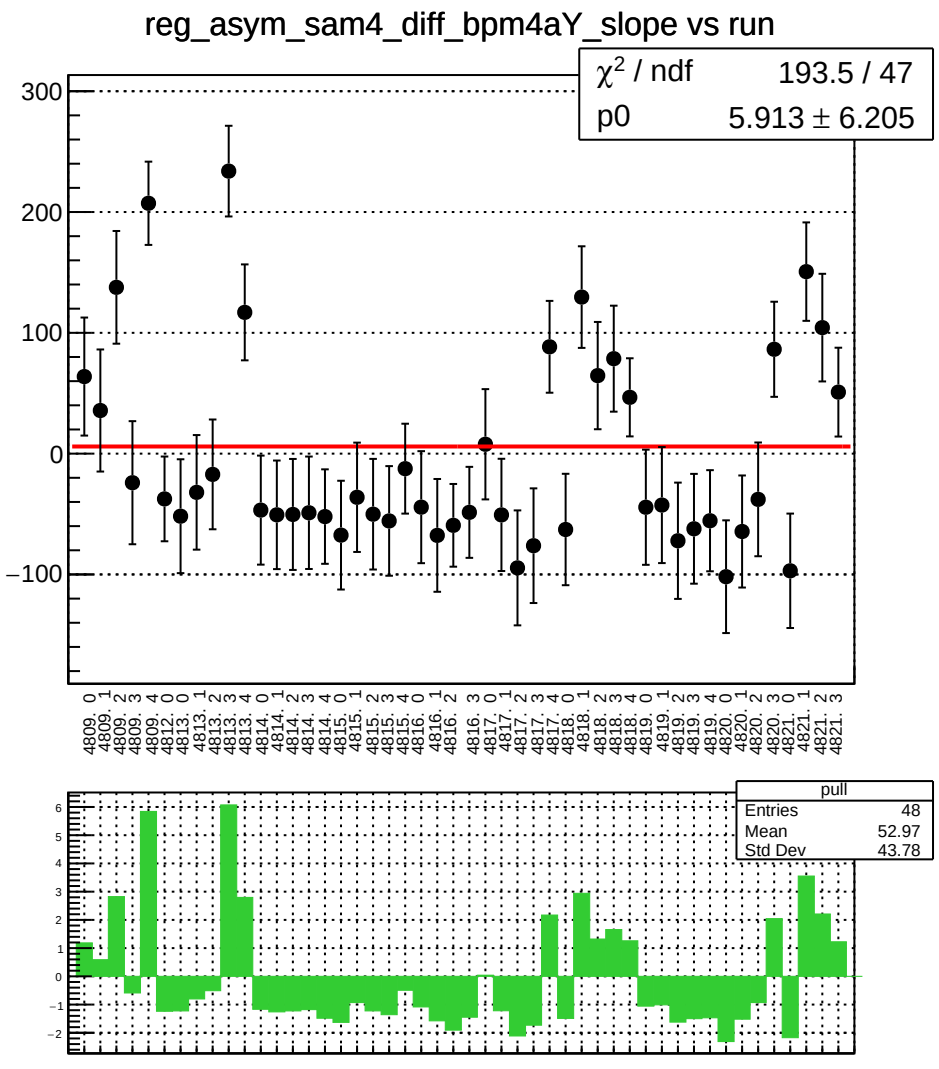

pull1D
Entries 48
Mean −0.01515
Std Dev 1.074
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

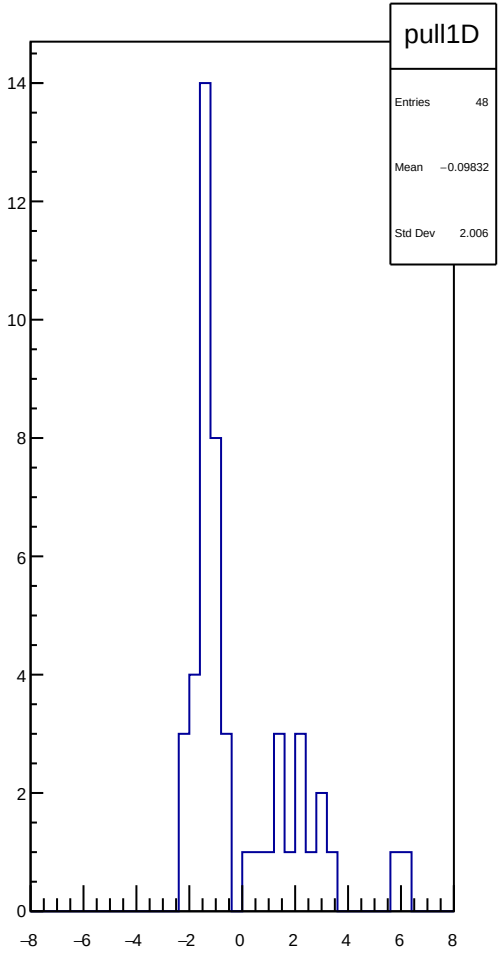

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 145.9 / 47
p0 −109.5 ± 15.43
200
0
−200
−400
−600
−800
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 29.05
Std Dev 29.86
1
0
−1
−2
−3
−4
−5
−6
pull1D
Entries 48
Mean 0.08904
Std Dev 1.741
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

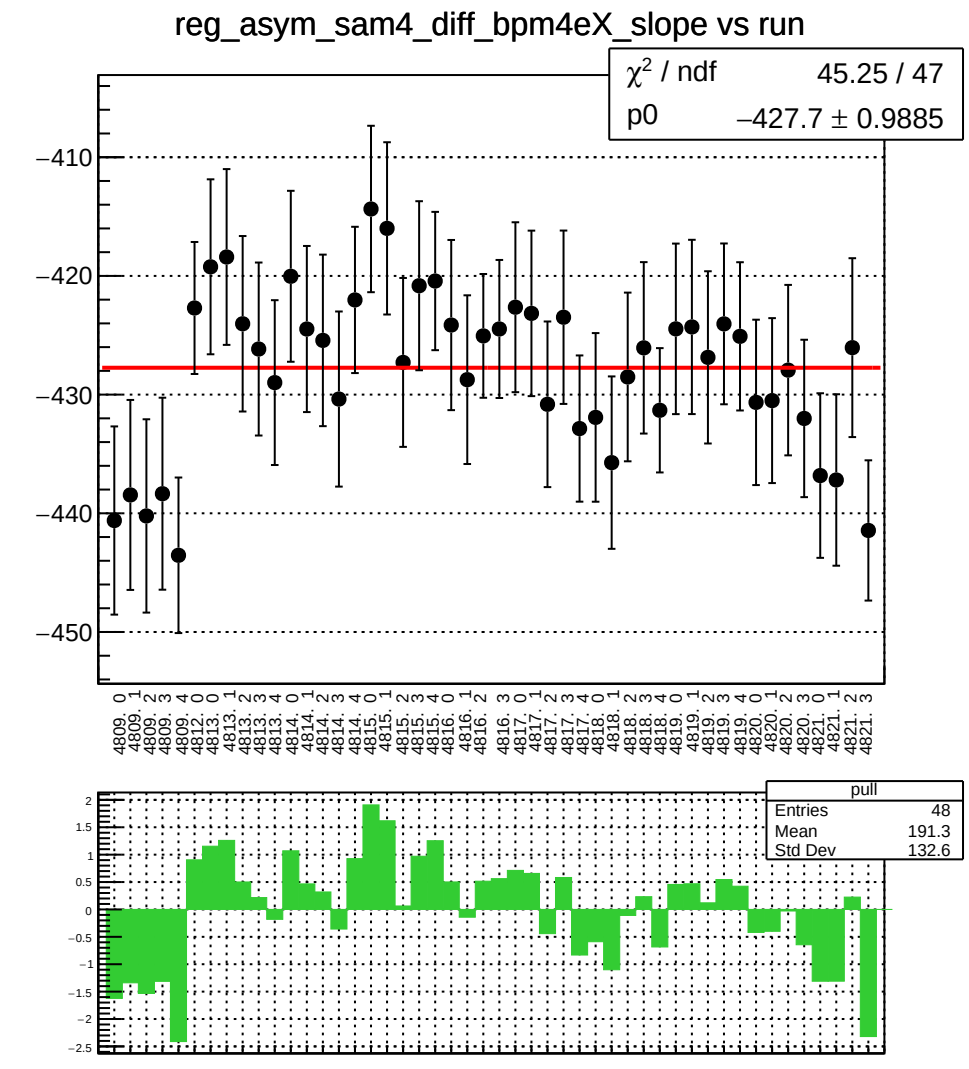

reg_asym_sam3_diff_bpm11X_slope vs run
χ² / ndf 11.83 / 47
p0 13.65 ± 2.681
pull
Entries 48
Mean −1516
Std Dev 1548

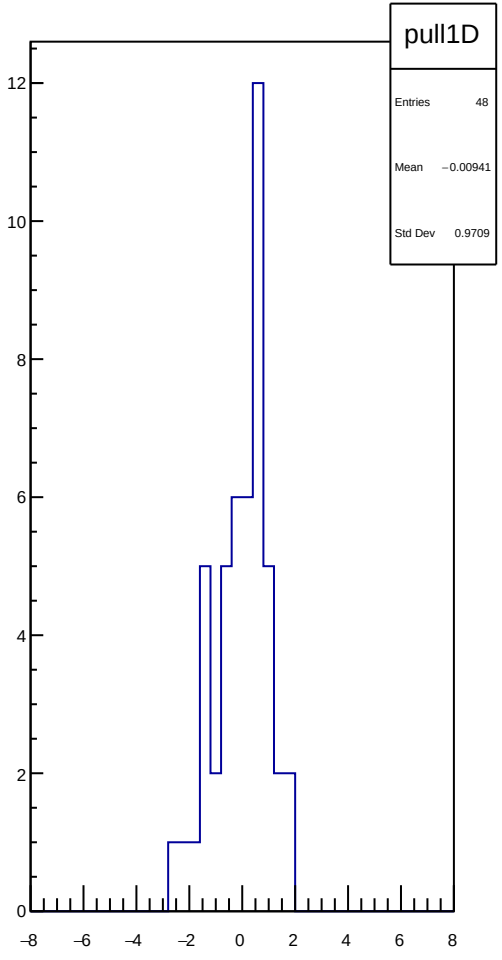

pull1D
Entries 48
Mean 0.000941
Std Dev 0.4964

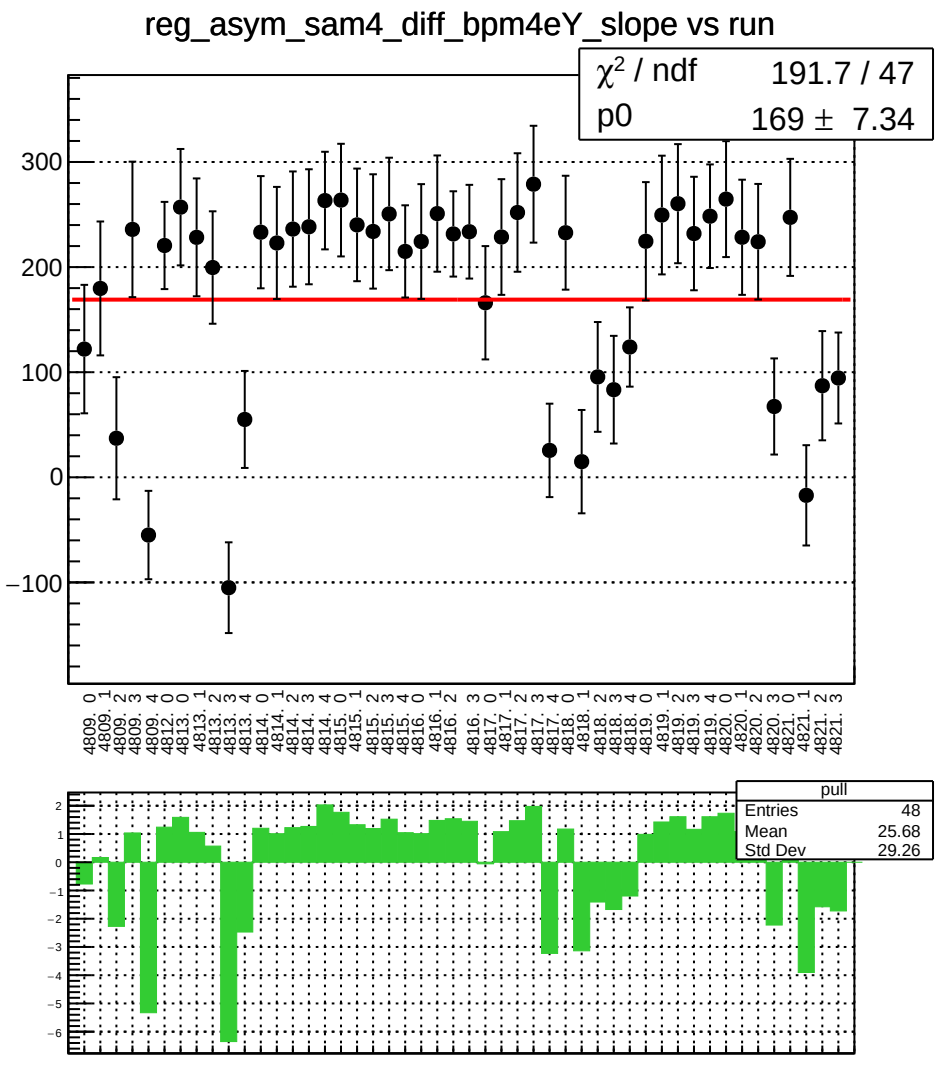

reg_asym_sam4_diff_bpm4aX_slope vs run
χ² / ndf 34.32 / 47
p0 276.8 ± 5.13
350
300
250
200
150
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean −97.05
Std Dev 116.9
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 48
Mean −0.04785
Std Dev 0.8442
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

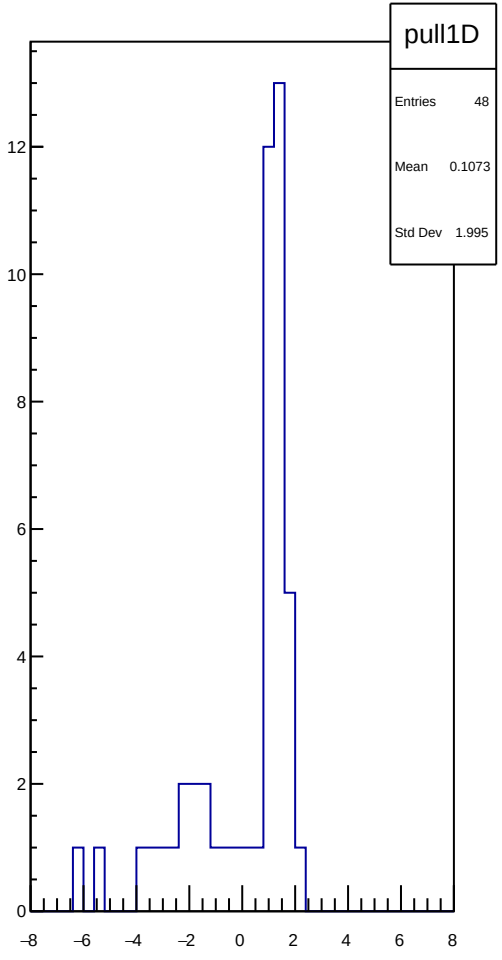

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 193.5 / 47
p0 5.913 ± 6.205
300
200
100
0
−100
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 52.97
Std Dev 43.78
6
5
4
3
2
1
0
−1
−2

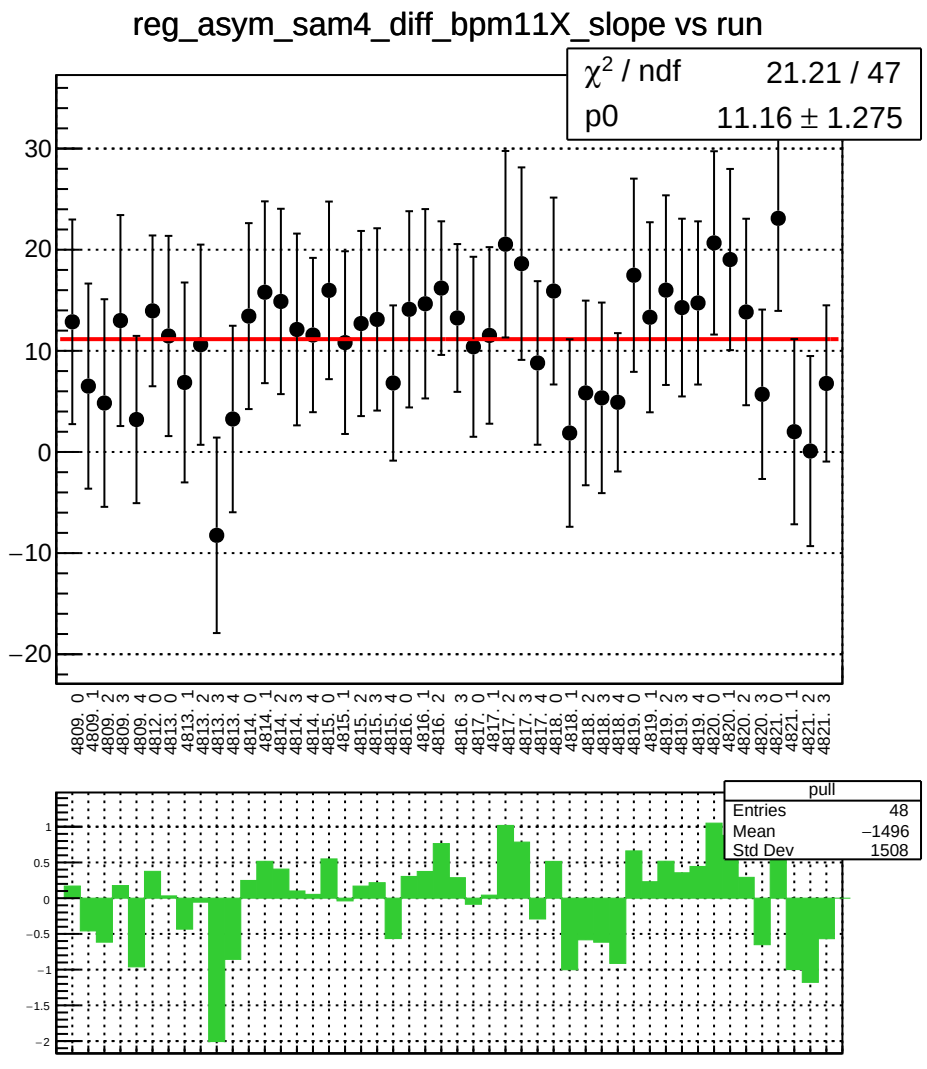

pull1D
Entries 48
Mean −0.09832
Std Dev 2.006
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

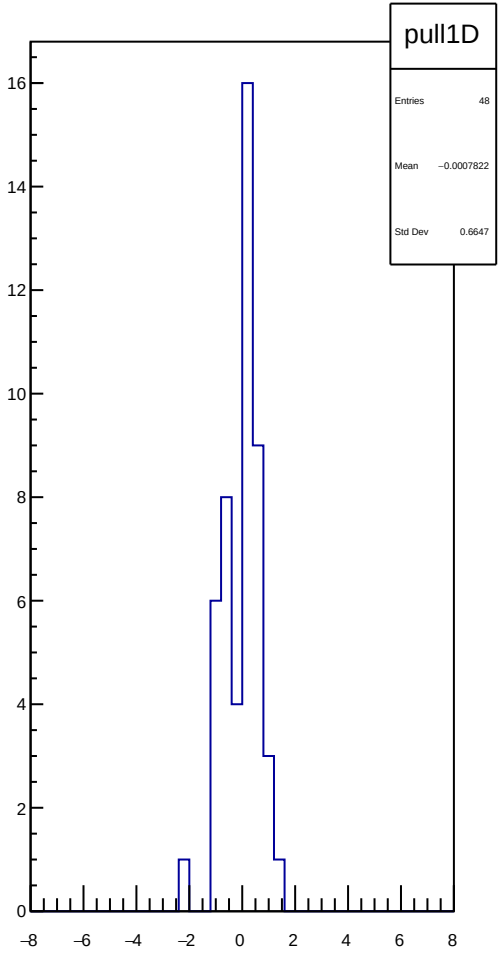

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 45.25 / 47
p0 −427.7 ± 0.9885
pull
Entries 48
Mean 191.3
Std Dev 132.6

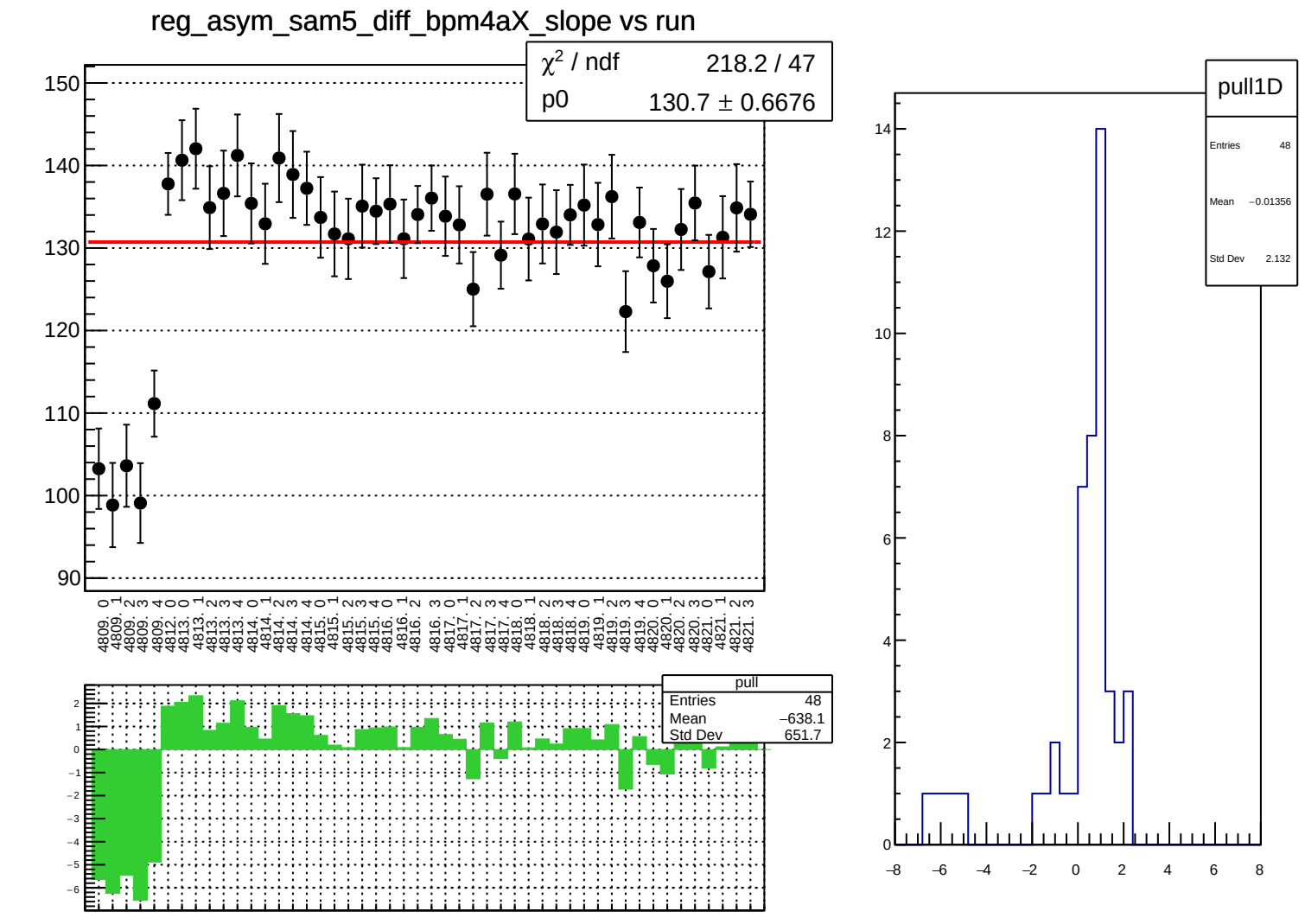

pull1D
Entries 48
Mean −0.00941
Std Dev 0.9709

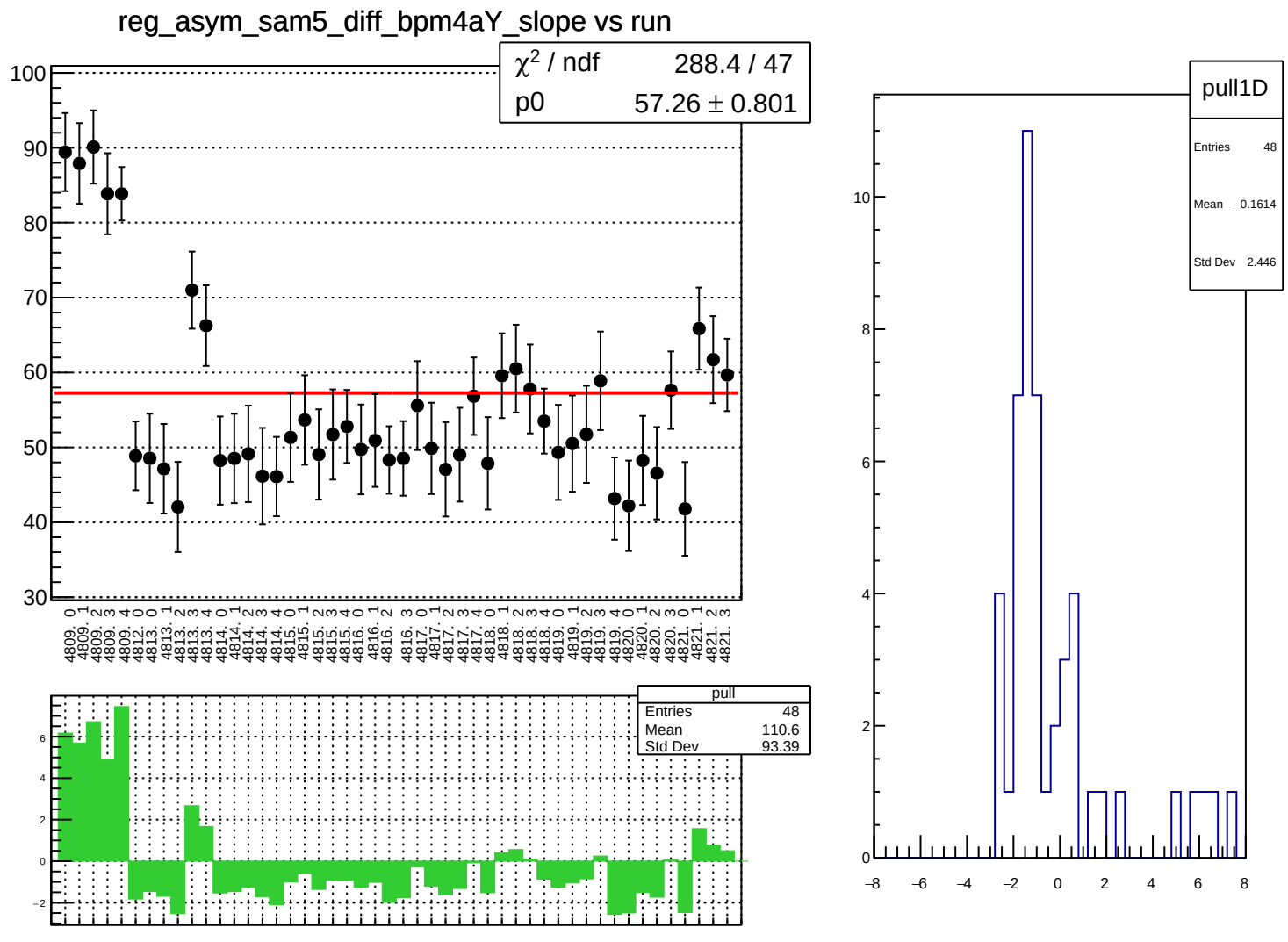

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 191.7 / 47
p0 169 ± 7.34
300
200
100
0
−100
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 25.68
Std Dev 29.26
2
1
0
−1
−2
−3
−4
−5
−6

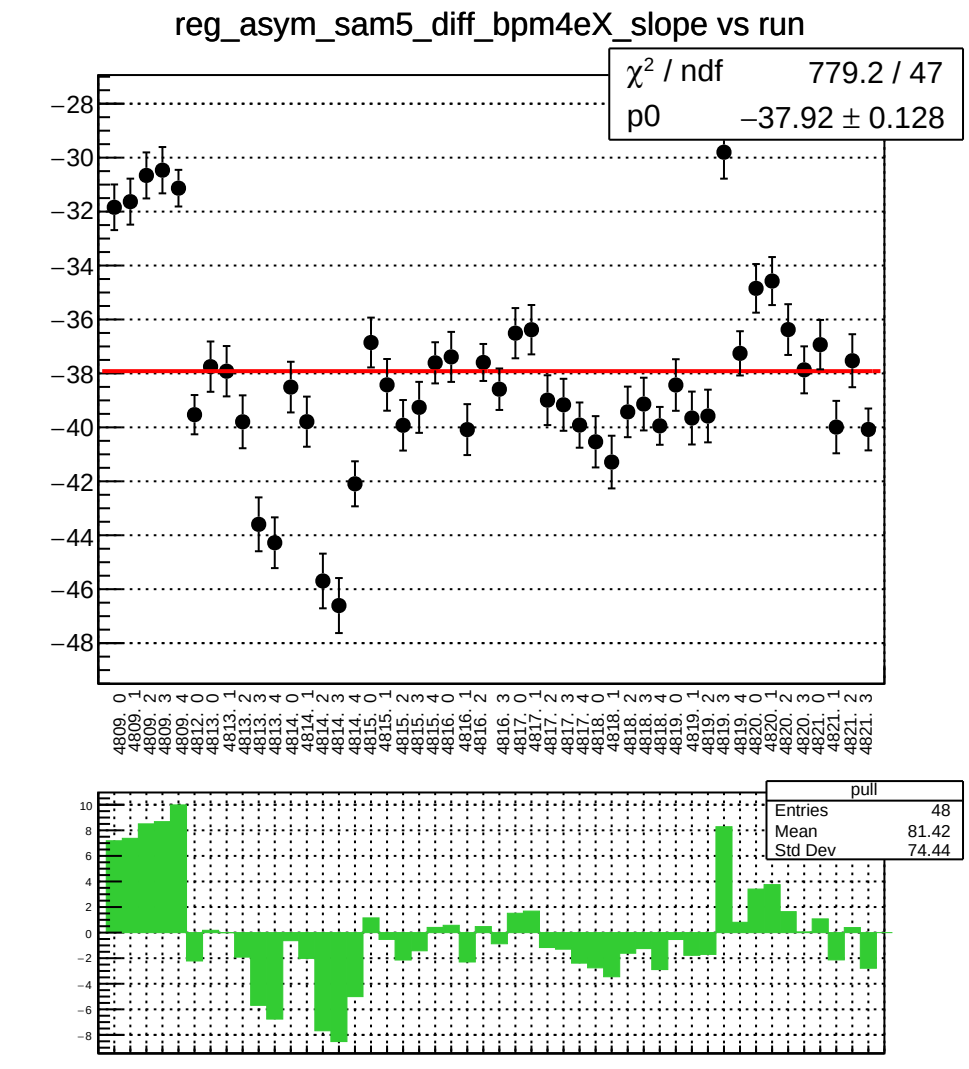

pull1D
Entries 48
Mean 0.1073
Std Dev 1.995
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

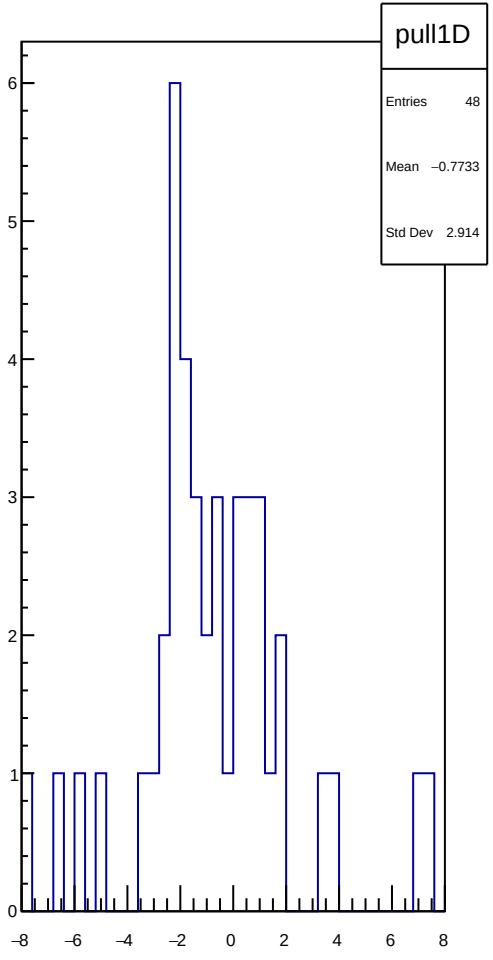

reg_asym_sam4_diff_bpm11X_slope vs run
χ² / ndf 21.21 / 47
p0 11.16 ± 1.275
pull
Entries 48
Mean −1496
Std Dev 1508

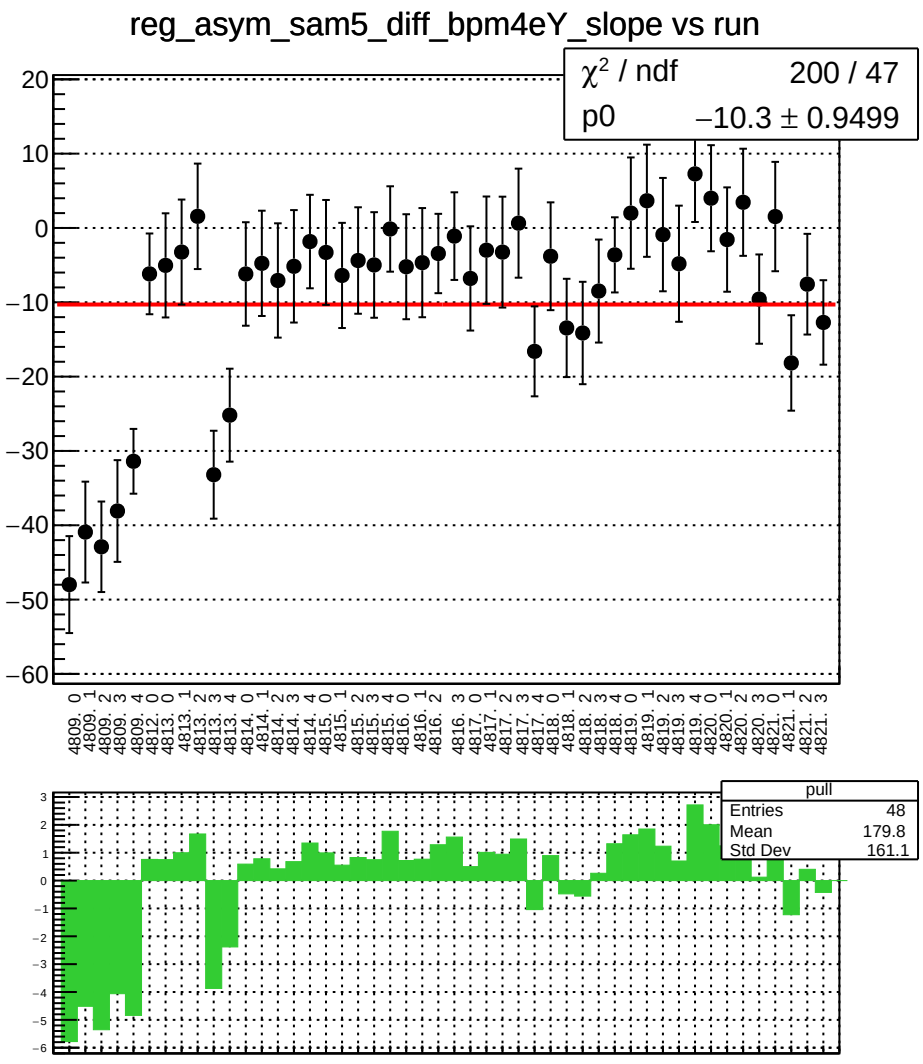

pull1D
Entries 48
Mean −0.0007822
Std Dev 0.6647

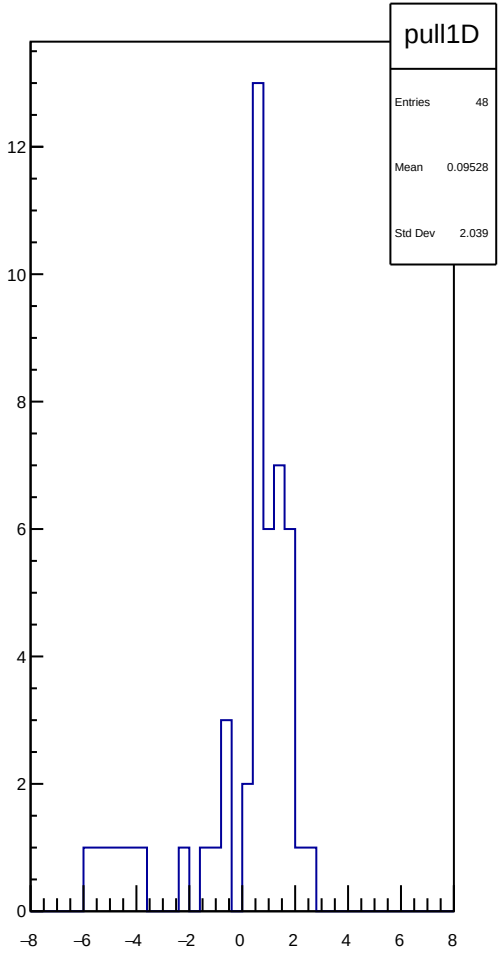

reg_asym_sam5_diff_bpm4aX_slope vs run
χ² / ndf 218.2 / 47
p0 130.7 ± 0.6676
150
140
130
120
110
100
90
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean −638.1
Std Dev 651.7
2
1
0
−1
−2
−3
−4
−5
−6
pull1D
Entries 48
Mean −0.01356
Std Dev 2.132
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

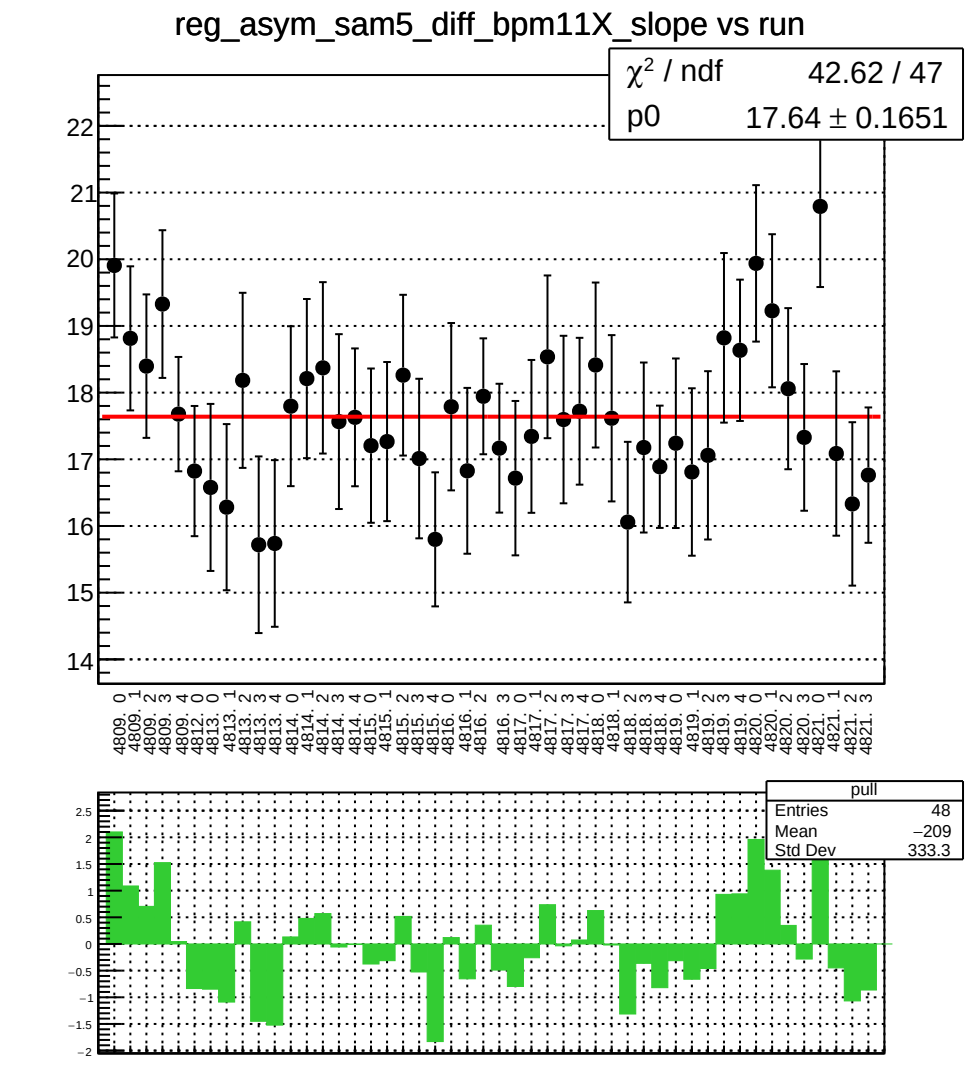

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 288.4 / 47
p0 57.26 ± 0.801
pull
Entries 48
Mean 110.6
Std Dev 93.39
pull1D
Entries 48
Mean −0.1614
Std Dev 2.446

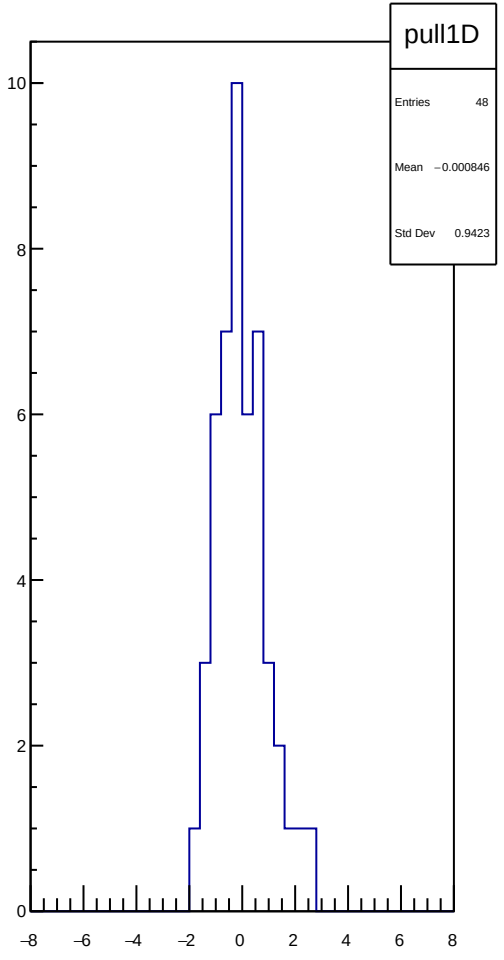

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 779.2 / 47
p0 −37.92 ± 0.128
pull
Entries 48
Mean 81.42
Std Dev 74.44

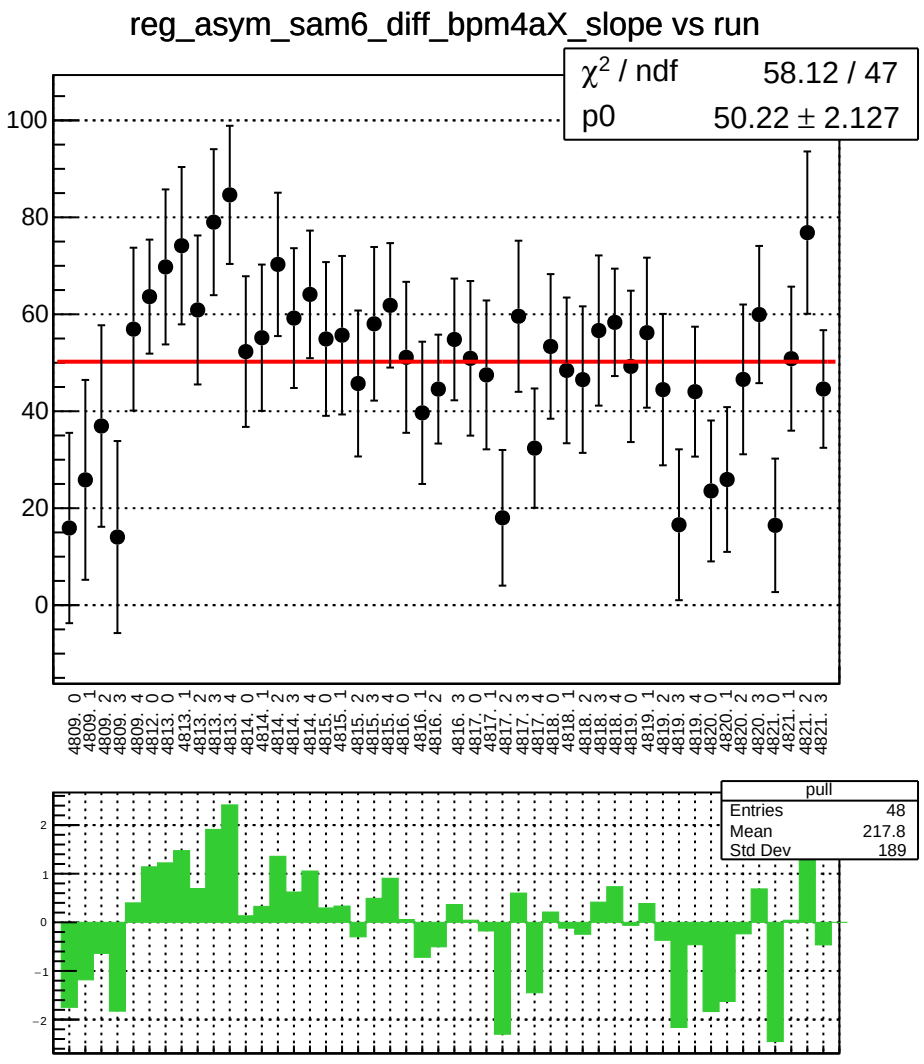

pull1D
Entries 48
Mean −0.7733
Std Dev 2.914

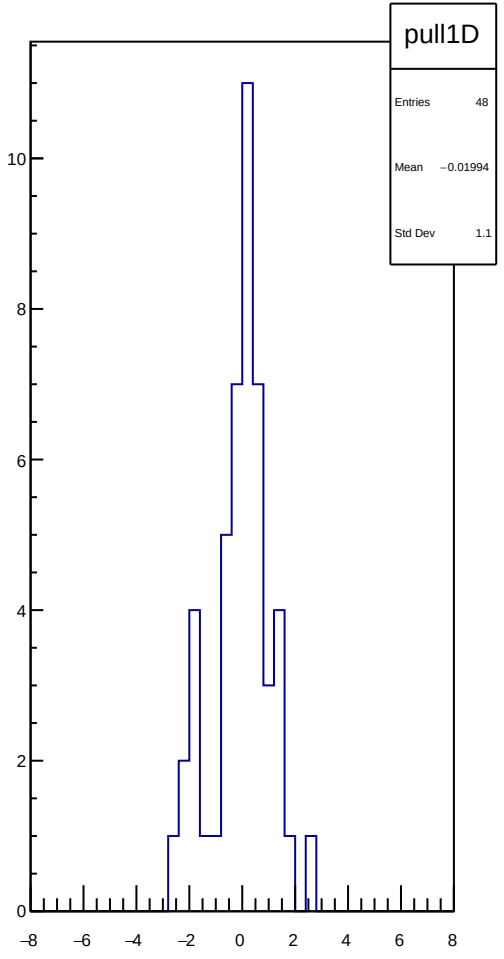

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 200 / 47
p0 −10.3 ± 0.9499
pull
Entries 48
Mean 179.8
Std Dev 161.1

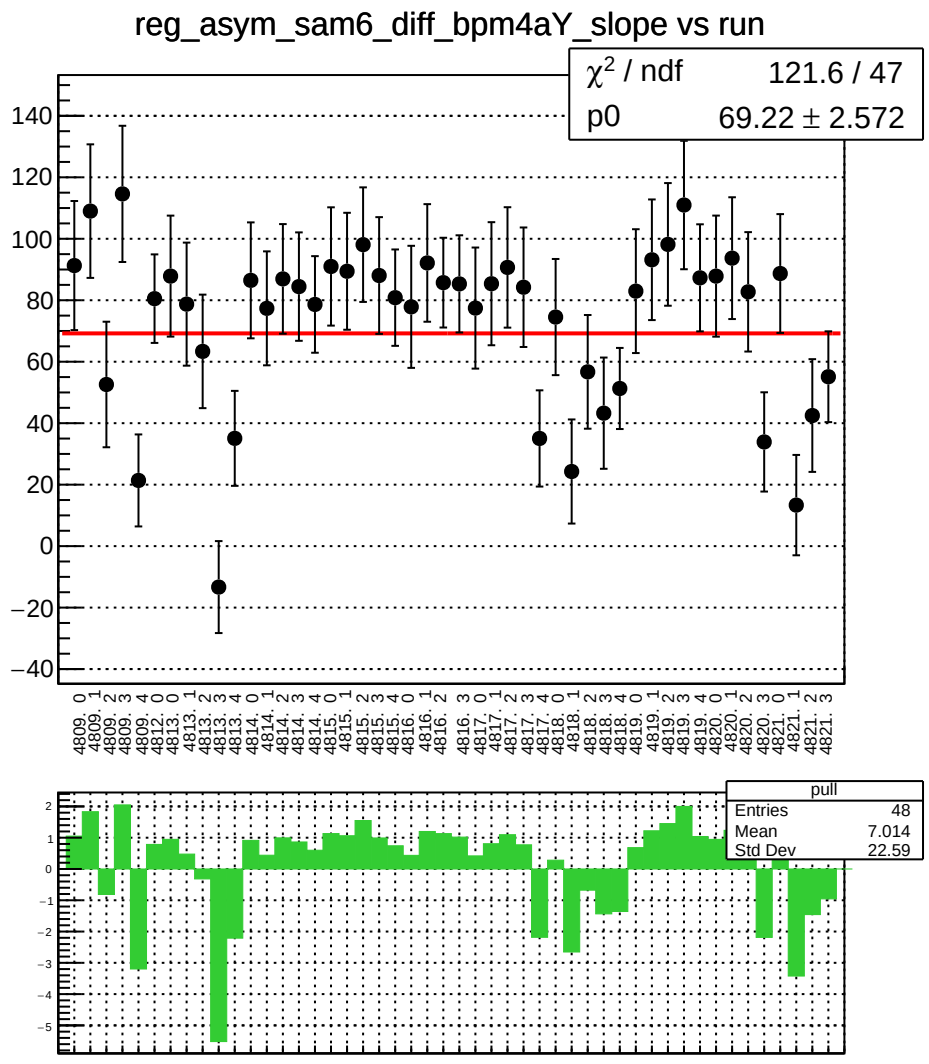

pull1D
Entries 48
Mean 0.09528
Std Dev 2.039

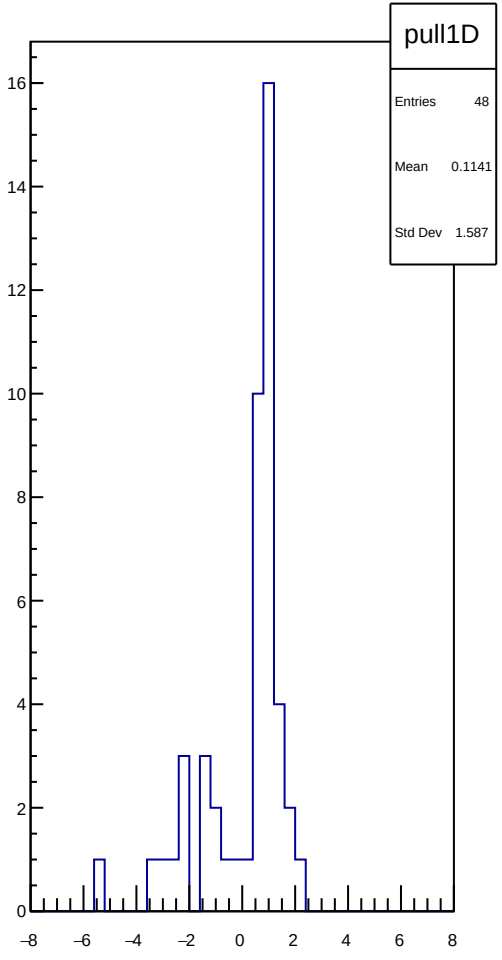

reg_asym_sam5_diff_bpm11X_slope vs run
χ² / ndf 42.62 / 47
p0 17.64 ± 0.1651
pull
Entries 48
Mean −209
Std Dev 333.3

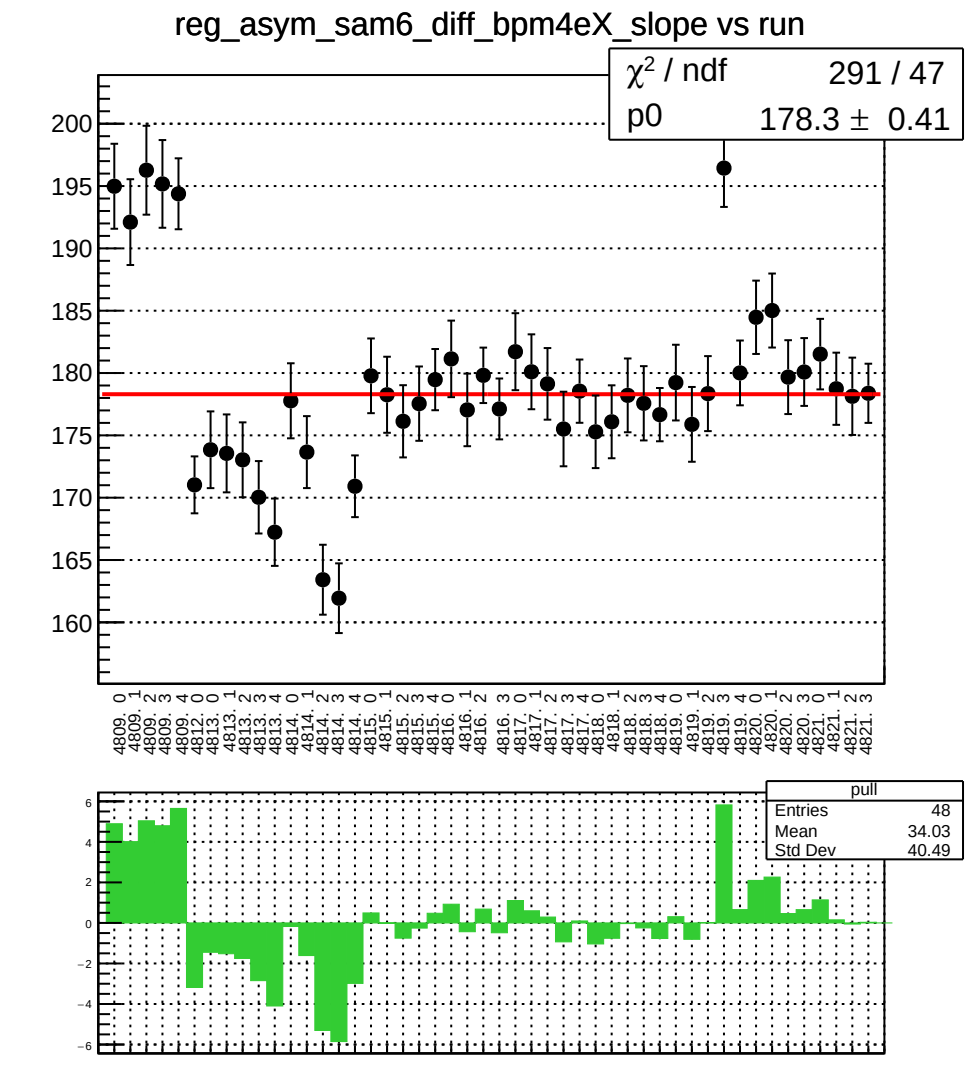

pull1D
Entries 48
Mean −0.000846
Std Dev 0.9423

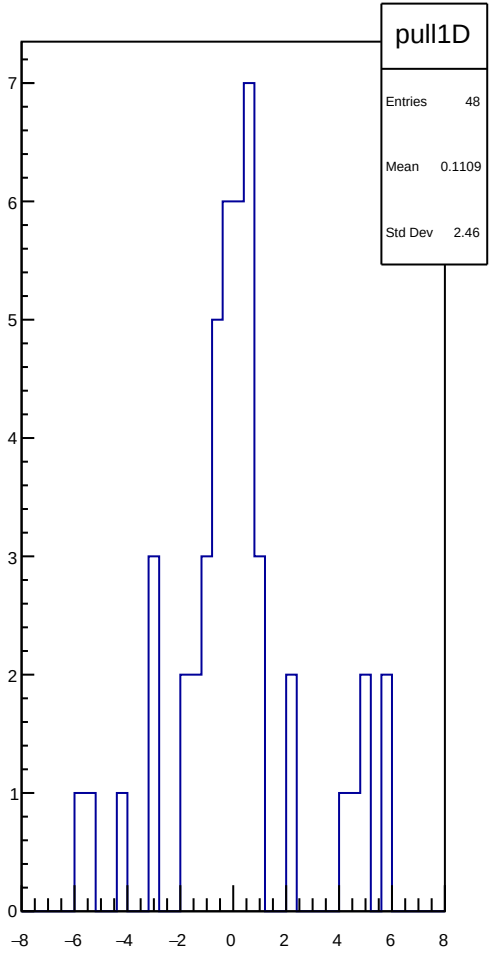

reg_asym_sam6_diff_bpm4aX_slope vs run
χ^2 / ndf 58.12 / 47
p0 50.22 ± 2.127
pull
Entries 48
Mean 217.8
Std Dev 189

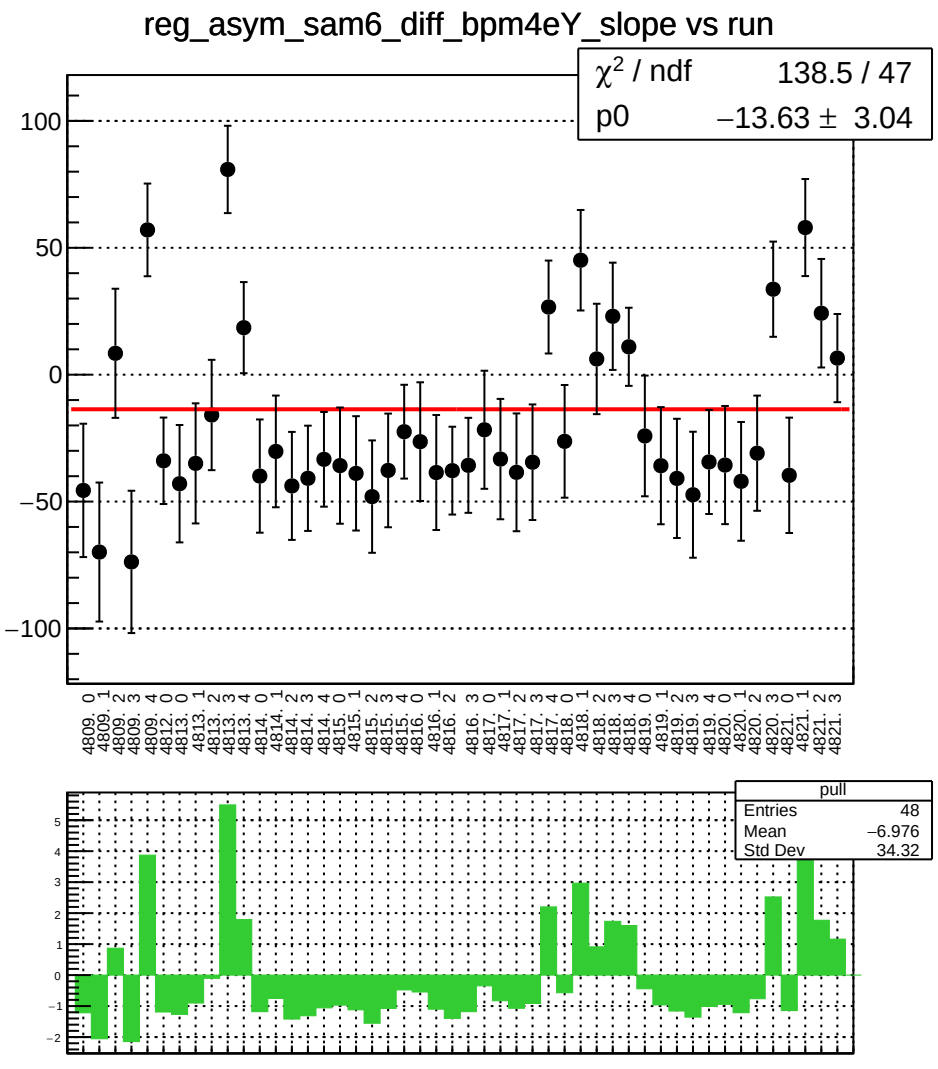

pull1D
Entries 48
Mean −0.01994
Std Dev 1.1

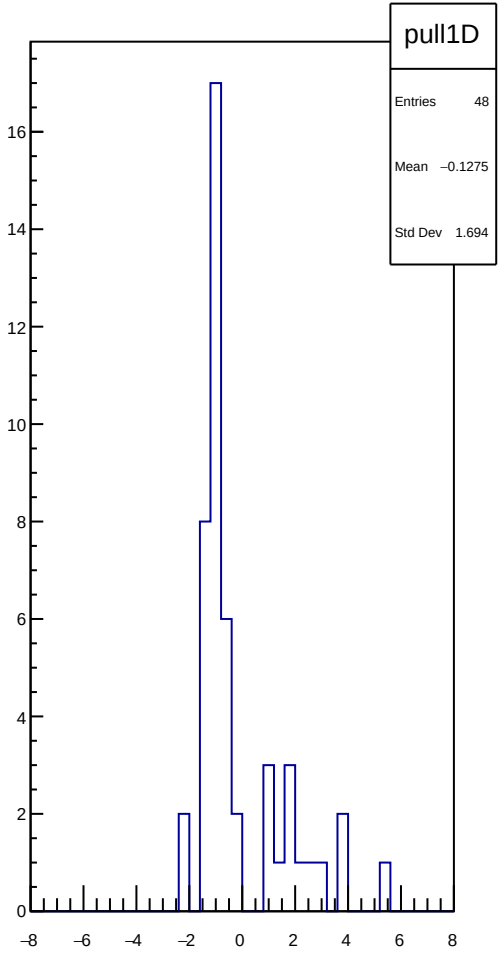

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 121.6 / 47
p0 69.22 ± 2.572
pull
Entries 48
Mean 7.014
Std Dev 22.59

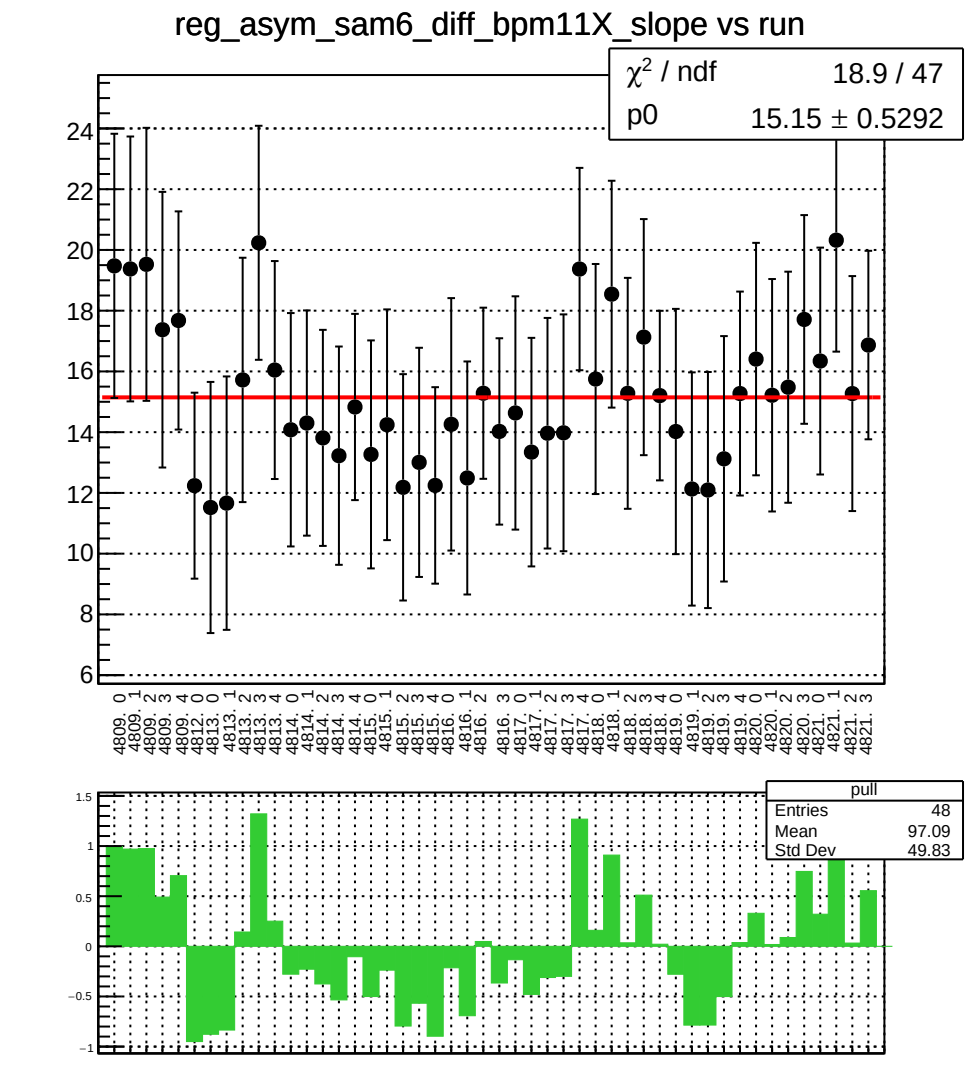

pull1D
Entries 48
Mean 0.1141
Std Dev 1.587

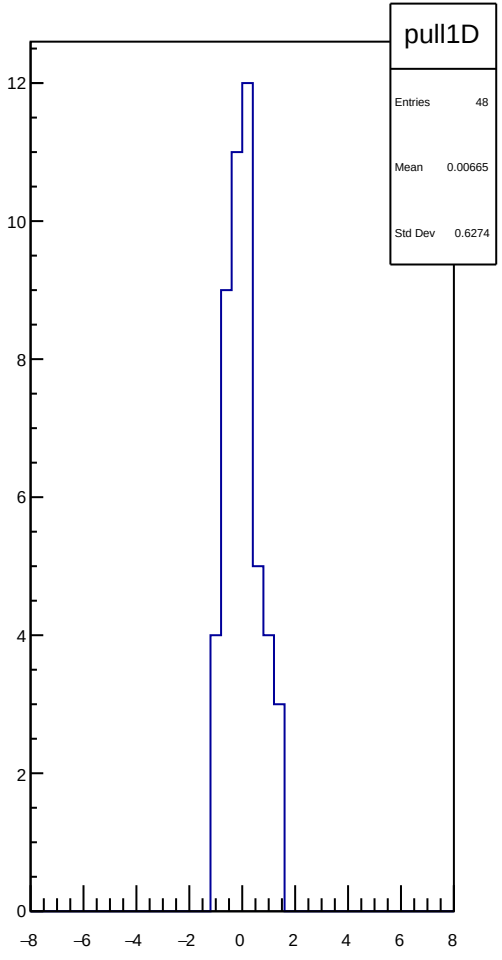

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 291 / 47
p0 178.3 ± 0.41
200
195
190
185
180
175
170
165
160
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 34.03
Std Dev 40.49
6
4
2
0
−2
−4
−6

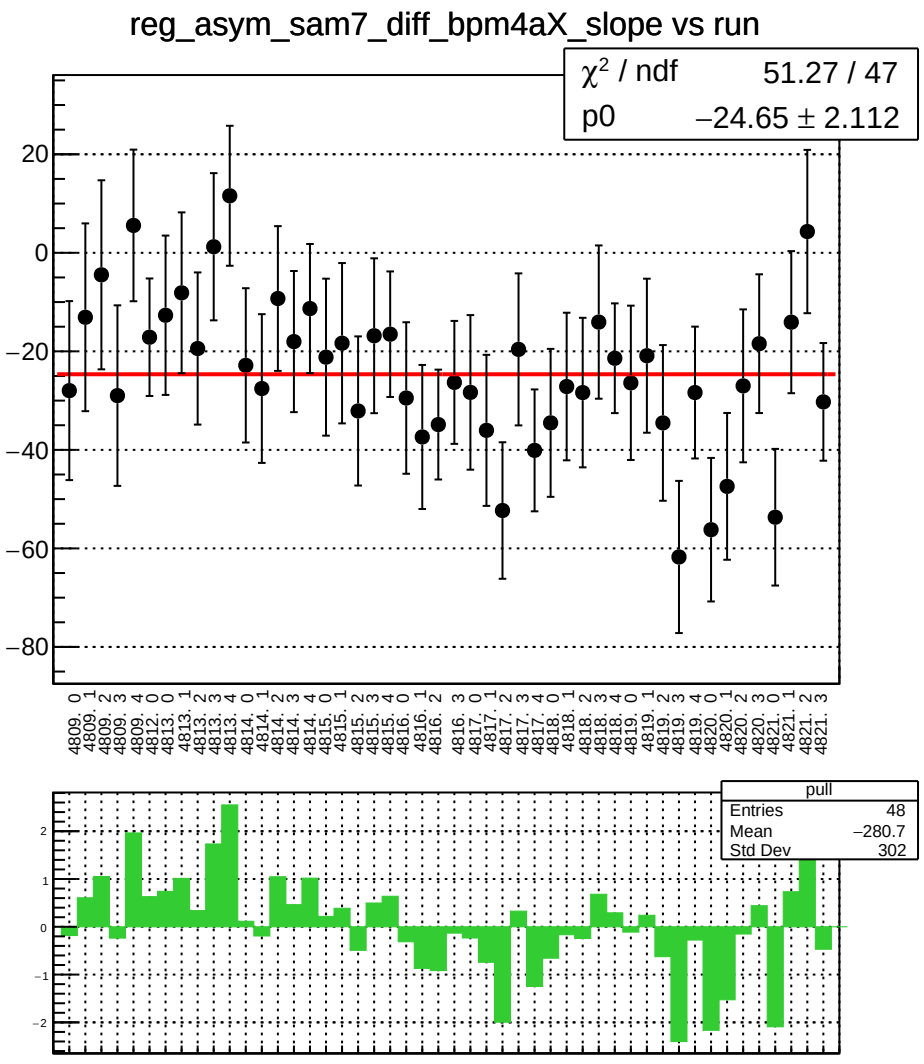

pull1D
Entries 48
Mean 0.1109
Std Dev 2.46
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

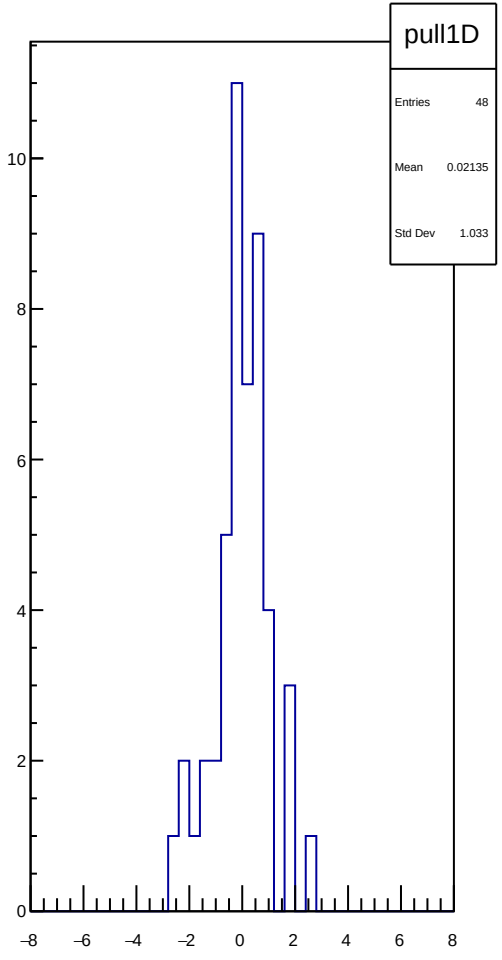

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 138.5 / 47
p0 −13.63 ± 3.04
100
50
0
−50
−100
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean −6.976
Std Dev 34.32
5
4
3
2
1
0
−1
−2

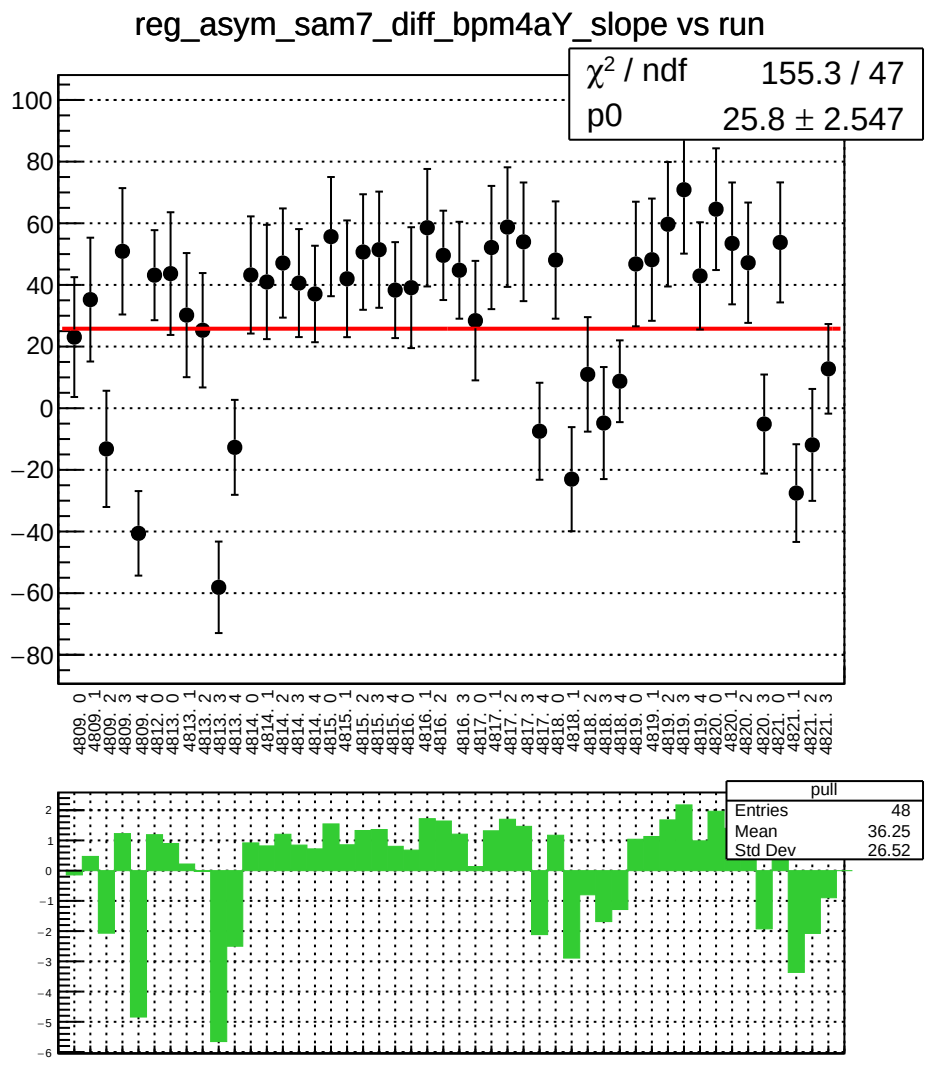

pull1D
Entries 48
Mean −0.1275
Std Dev 1.694
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

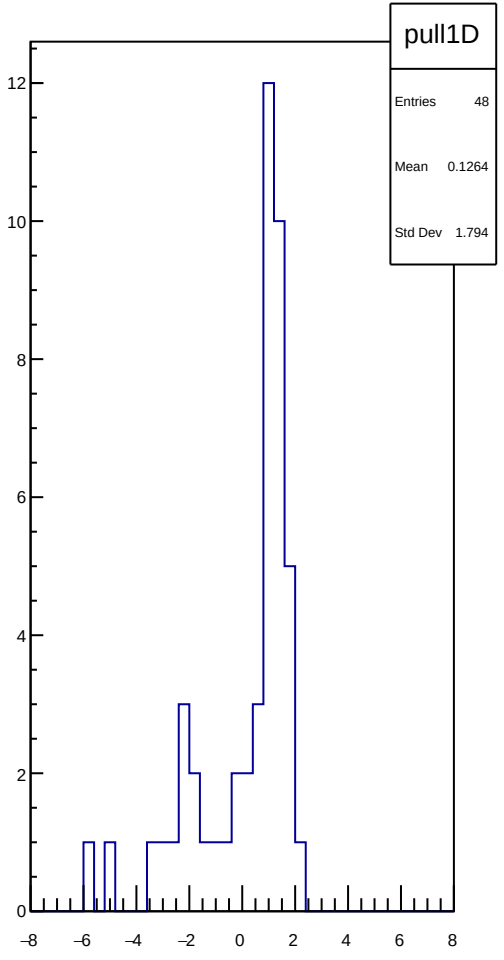

reg_asym_sam6_diff_bpm11X_slope vs run
χ² / ndf 18.9 / 47
p0 15.15 ± 0.5292
pull
Entries 48
Mean 97.09
Std Dev 49.83

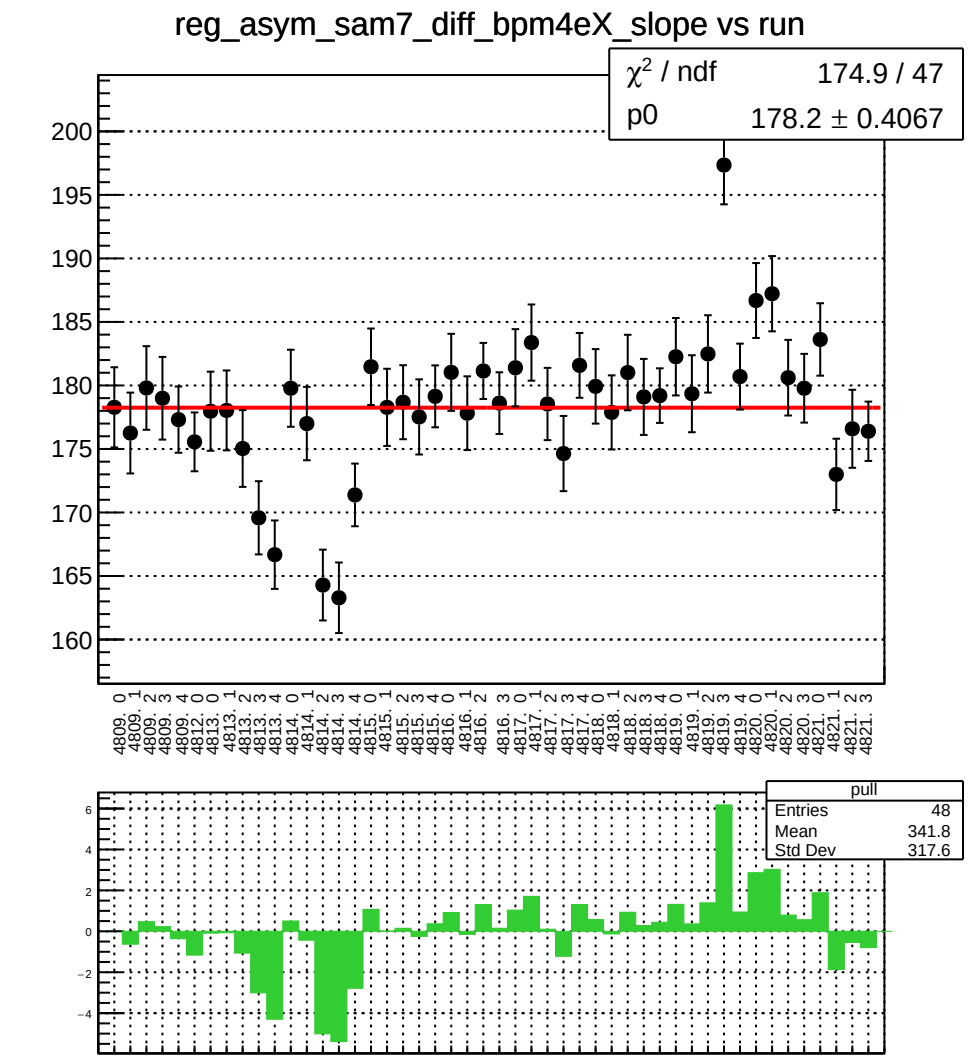

pull1D
Entries 48
Mean 0.00665
Std Dev 0.6274

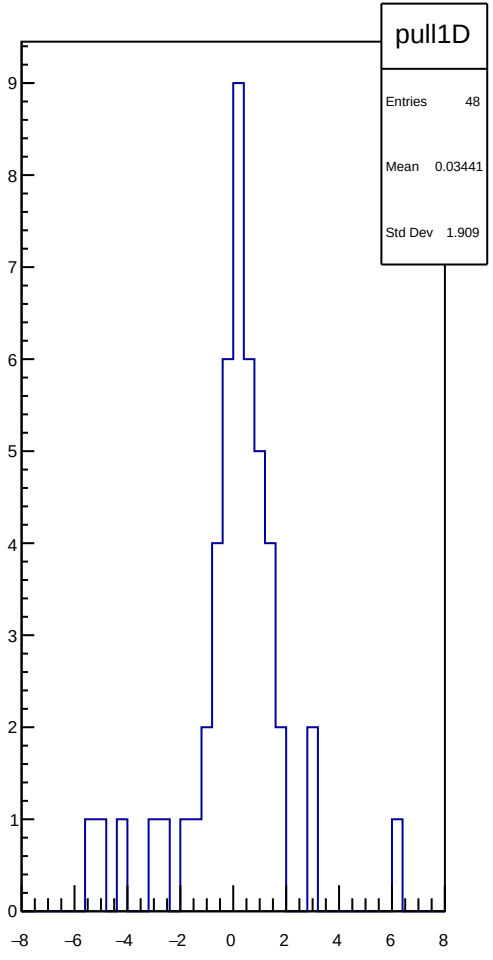

reg_asym_sam7_diff_bpm4aX_slope vs run
χ² / ndf 51.27 / 47
p0 −24.65 ± 2.112
pull
Entries 48
Mean −280.7
Std Dev 302

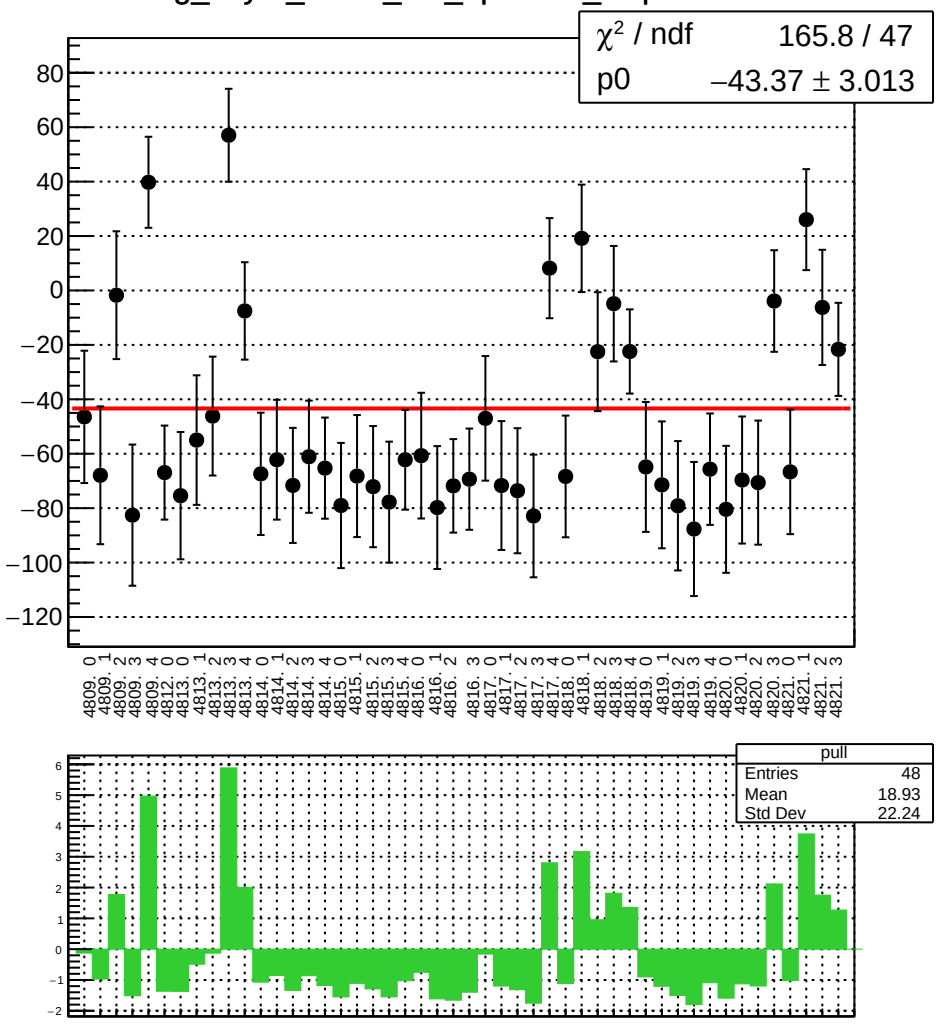

pull1D
Entries 48
Mean 0.02135
Std Dev 1.033

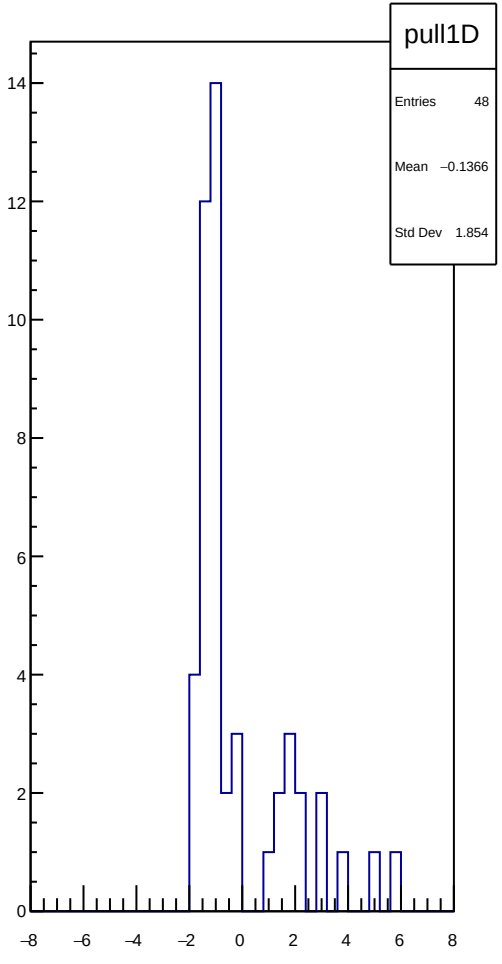

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 155.3 / 47
p0 25.8 ± 2.547
pull
Entries 48
Mean 36.25
Std Dev 26.52

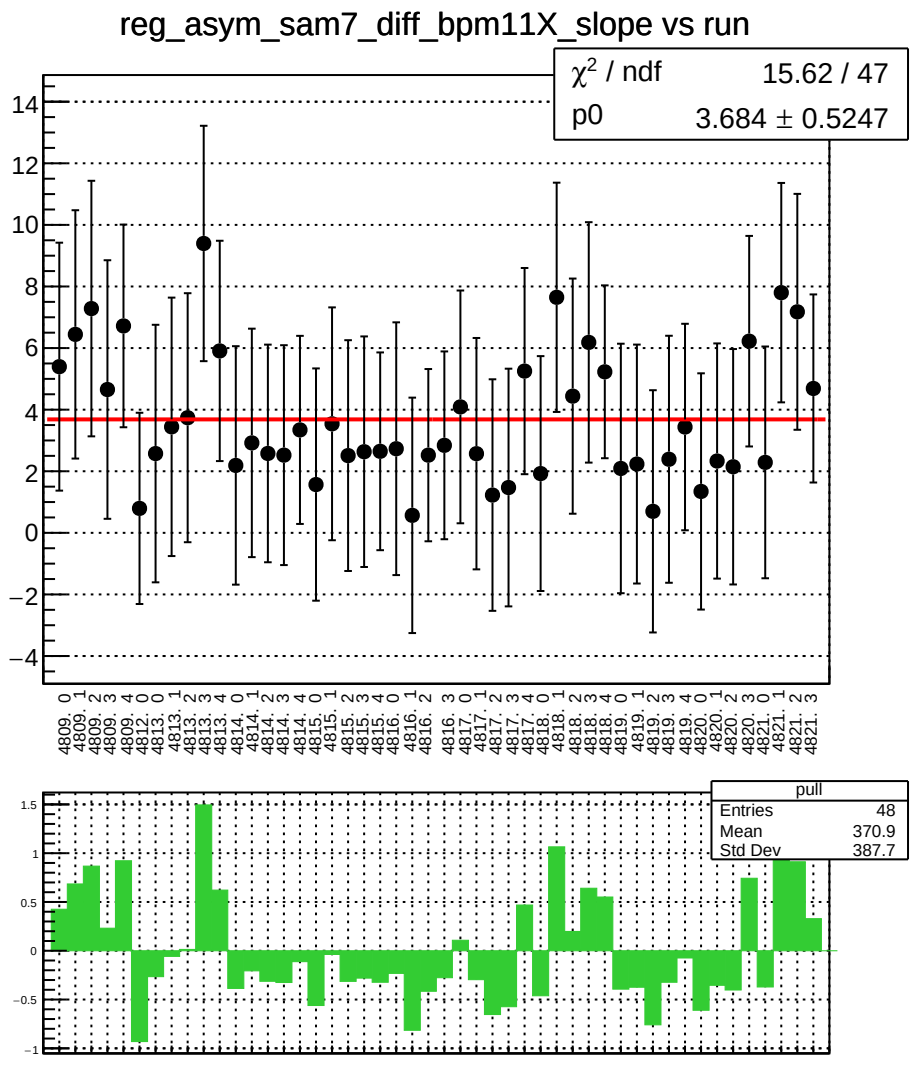

pull1D
Entries 48
Mean 0.1264
Std Dev 1.794

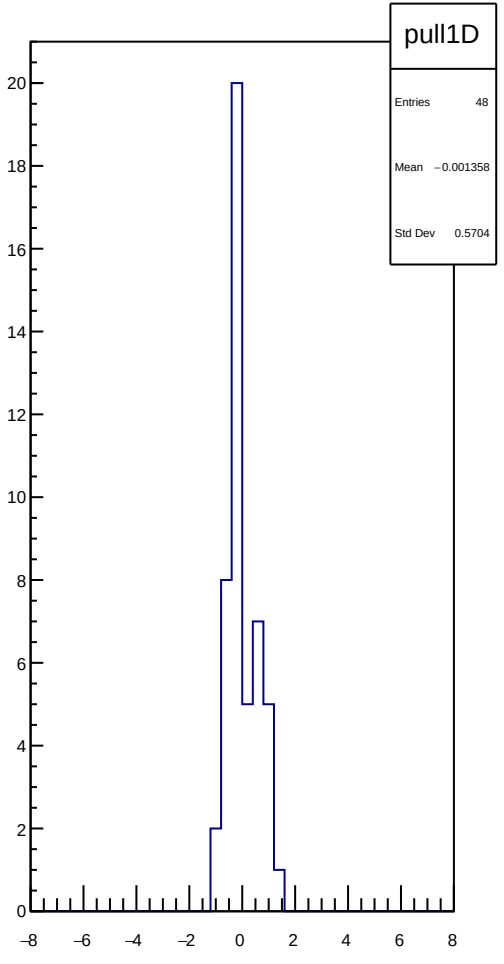

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 174.9 / 47
p0 178.2 ± 0.4067
pull
Entries 48
Mean 341.8
Std Dev 317.6

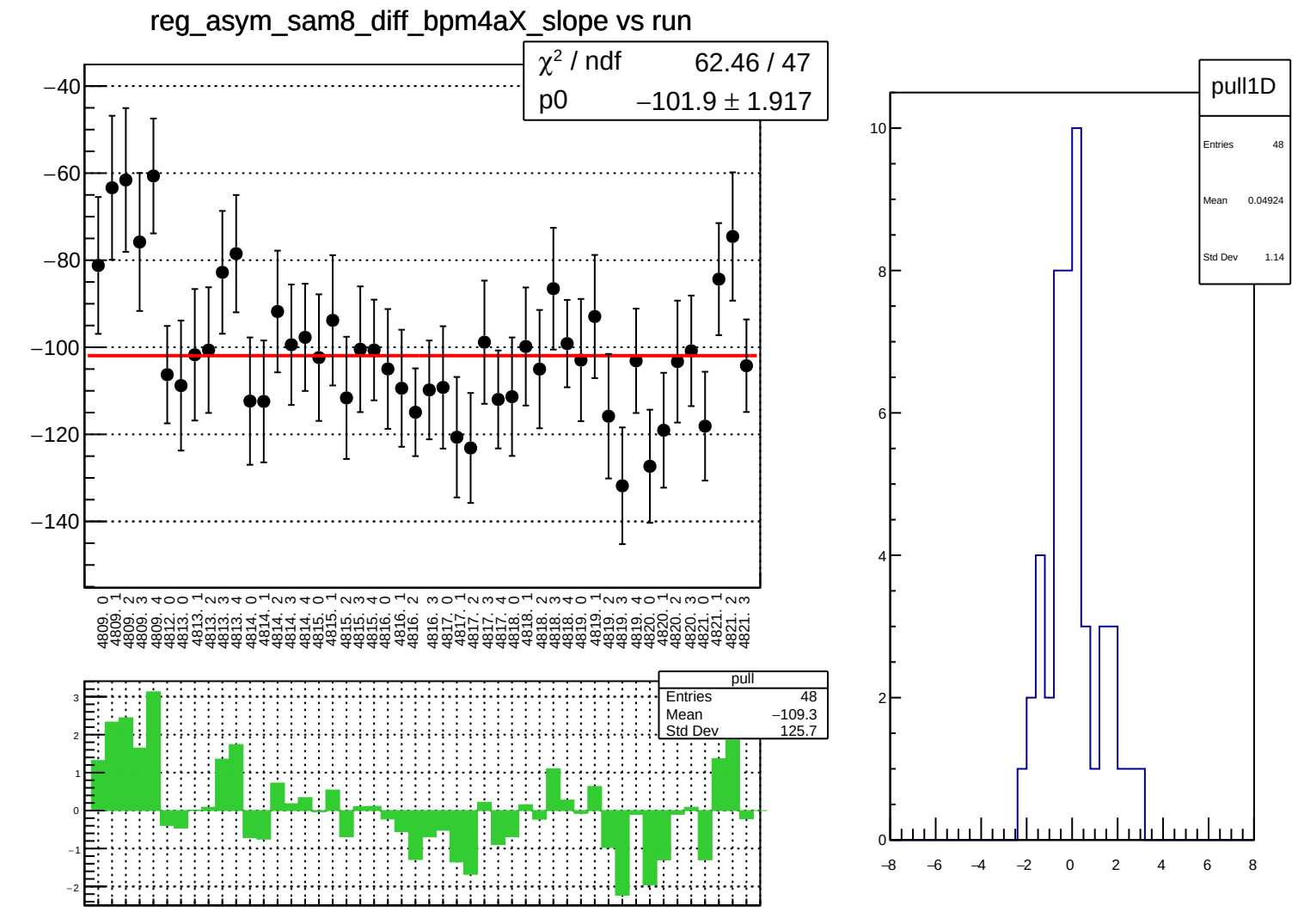

pull1D
Entries 48
Mean 0.03441
Std Dev 1.909

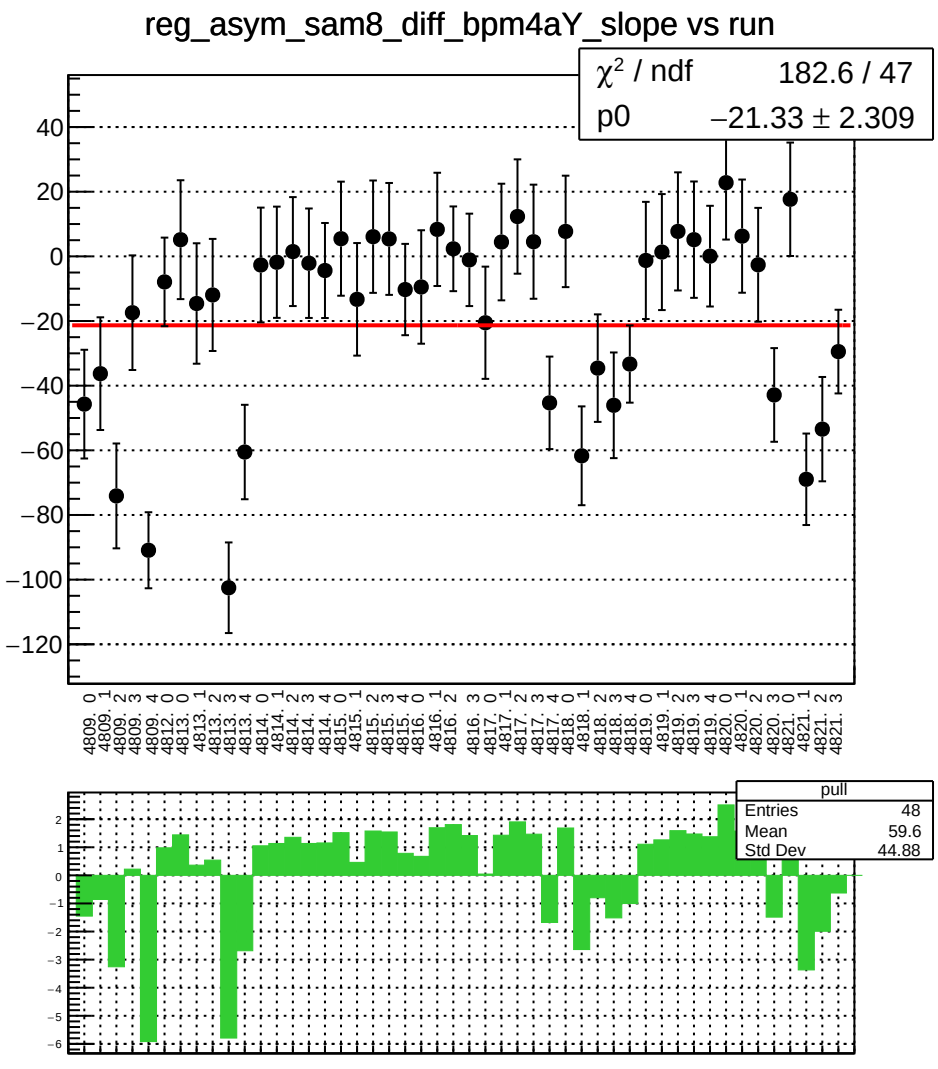

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 165.8 / 47
p0 −43.37 ± 3.013
pull
Entries 48
Mean 18.93
Std Dev 22.24

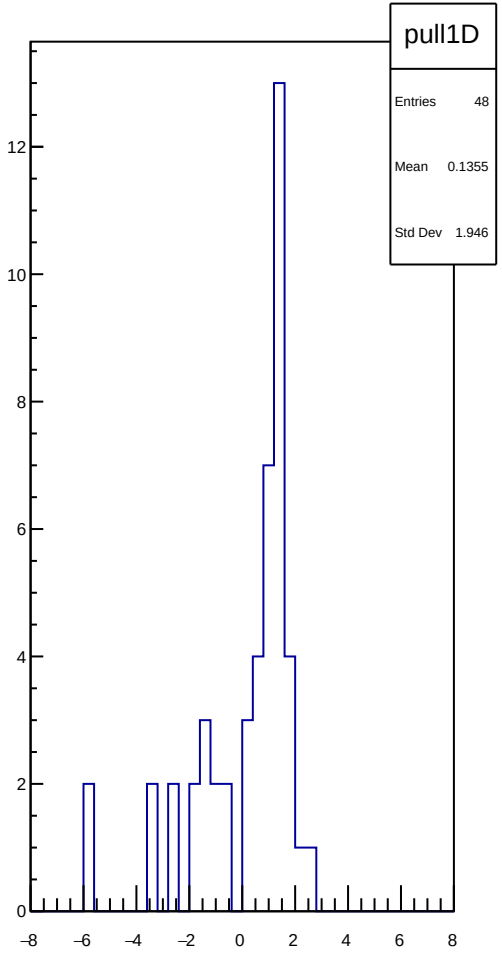

pull1D
Entries 48
Mean −0.1366
Std Dev 1.854

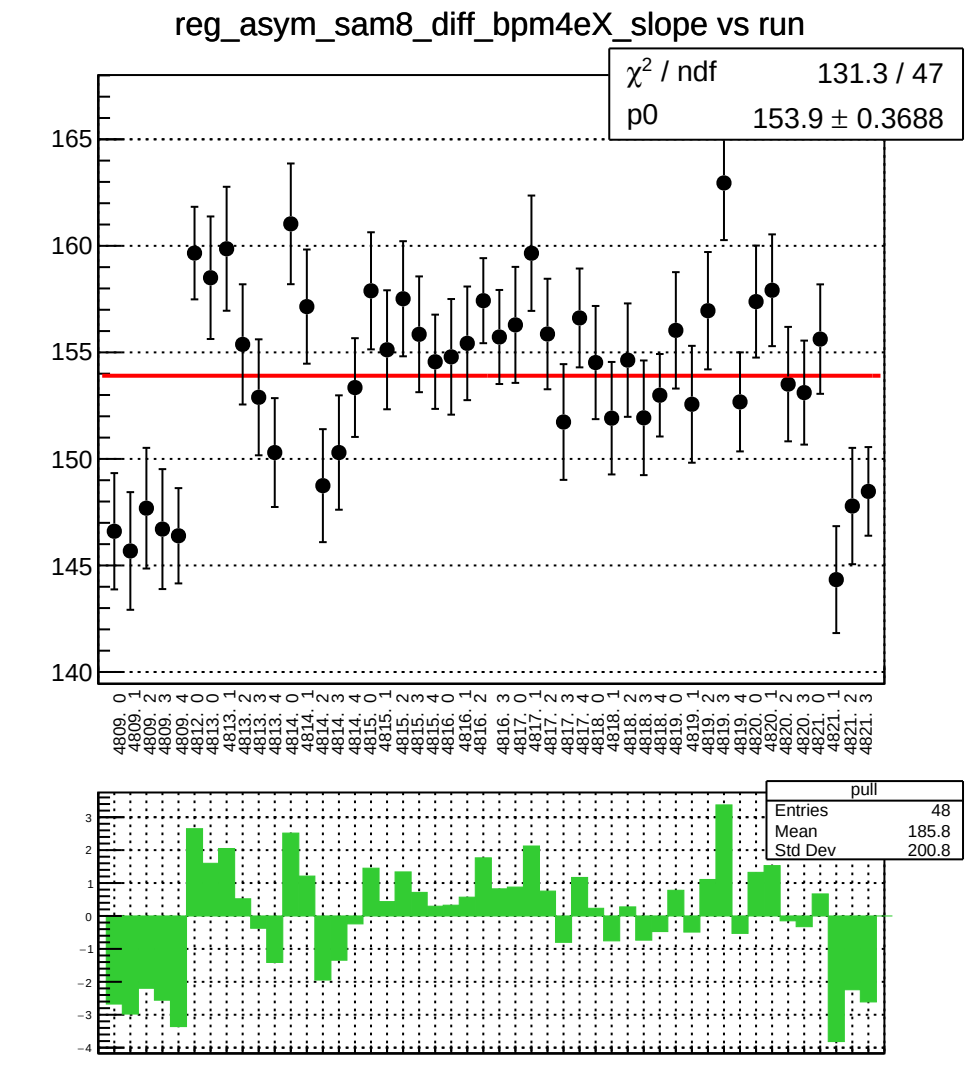

reg_asym_sam7_diff_bpm11X_slope vs run
χ² / ndf 15.62 / 47
p0 3.684 ± 0.5247
pull
Entries 48
Mean 370.9
Std Dev 387.7

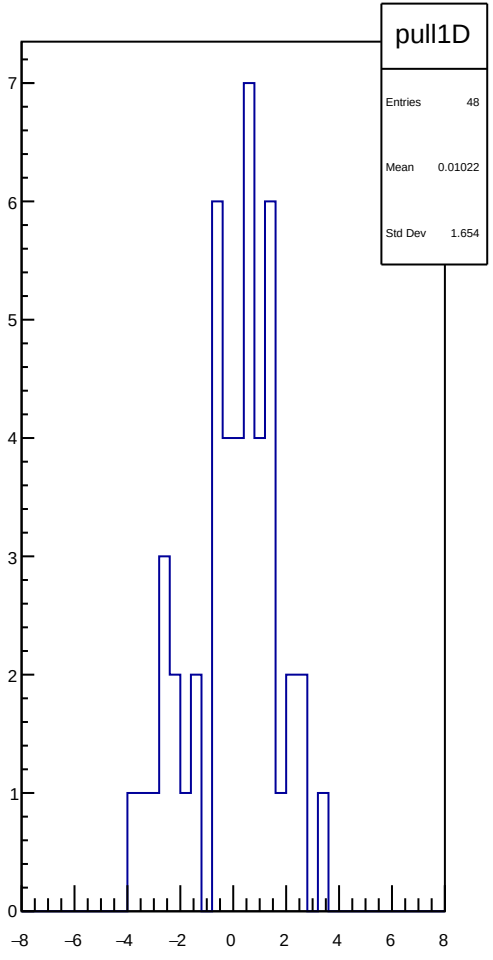

pull1D
Entries 48
Mean −0.001358
Std Dev 0.5704

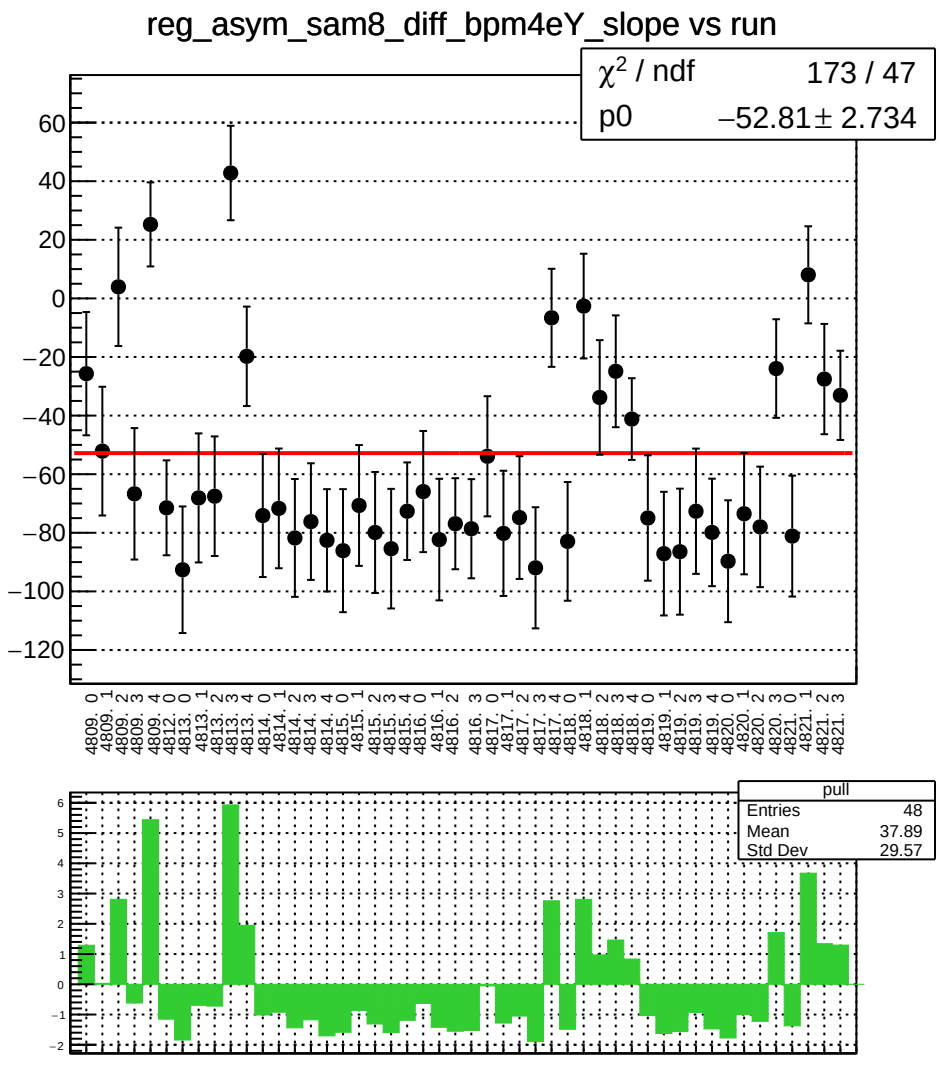

reg_asym_sam8_diff_bpm4aX_slope vs run
χ² / ndf 62.46 / 47
p0 −101.9 ± 1.917
pull
Entries 48
Mean −109.3
Std Dev 125.7
pull1D
Entries 48
Mean 0.04924
Std Dev 1.14

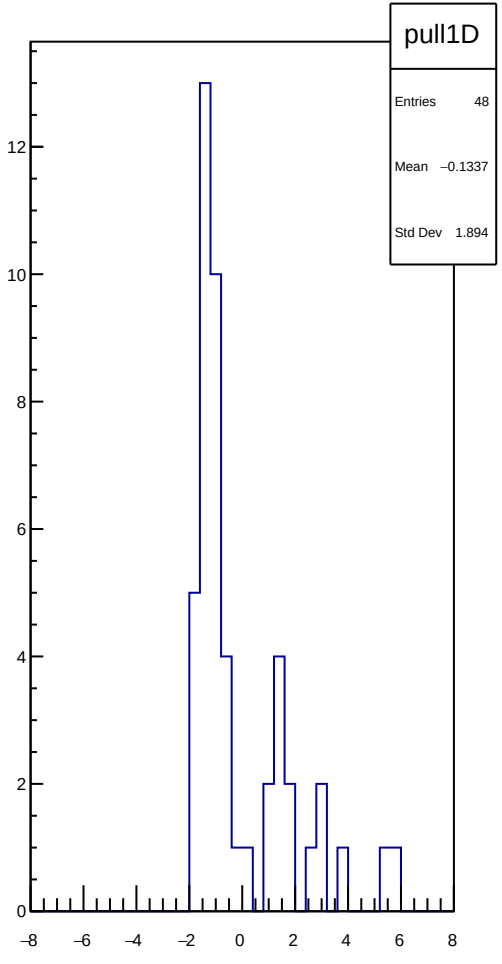

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 182.6 / 47
p0 −21.33 ± 2.309
pull
Entries 48
Mean 59.6
Std Dev 44.88

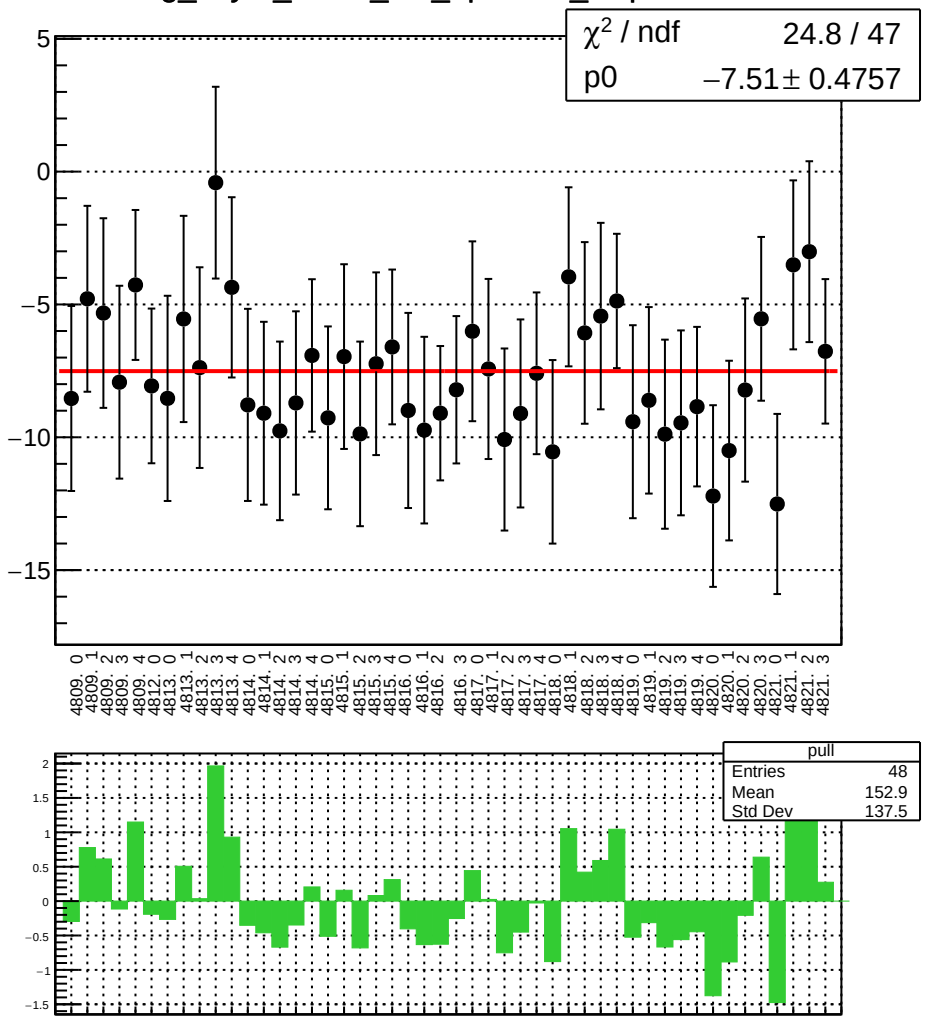

pull1D
Entries 48
Mean 0.1355
Std Dev 1.946

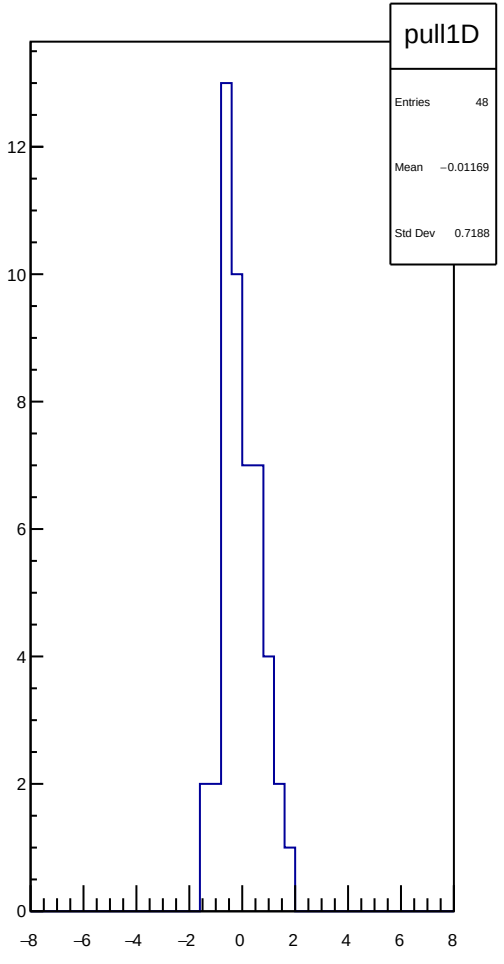

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 131.3 / 47
p0 153.9 ± 0.3688
165
160
155
150
145
140
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 185.8
Std Dev 200.8
3
2
1
0
−1
−2
−3
−4

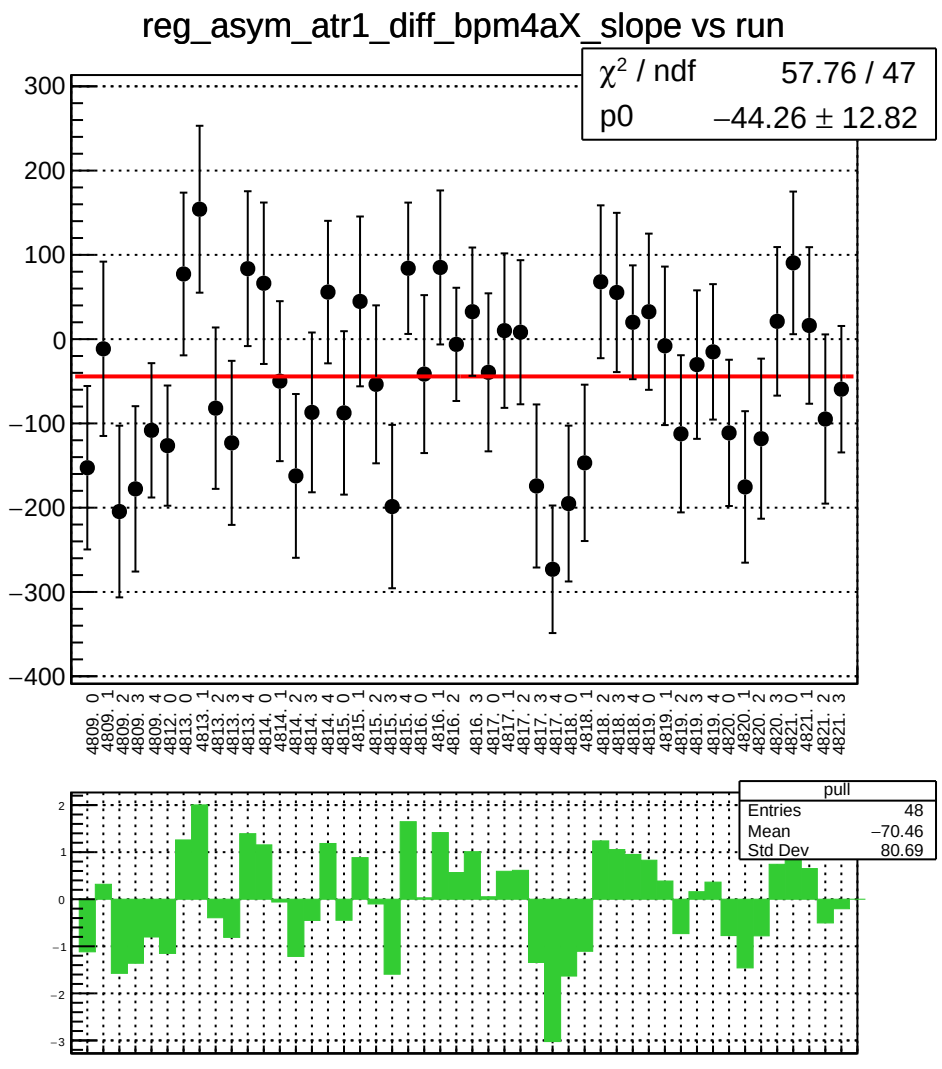

pull1D
Entries 48
Mean 0.01022
Std Dev 1.654
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

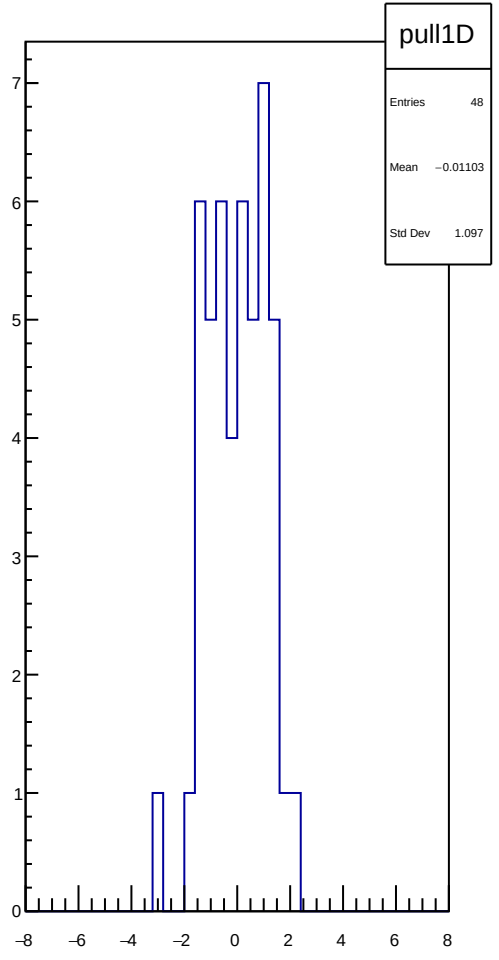

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 173 / 47
p0 −52.81 ± 2.734
pull
Entries 48
Mean 37.89
Std Dev 29.57

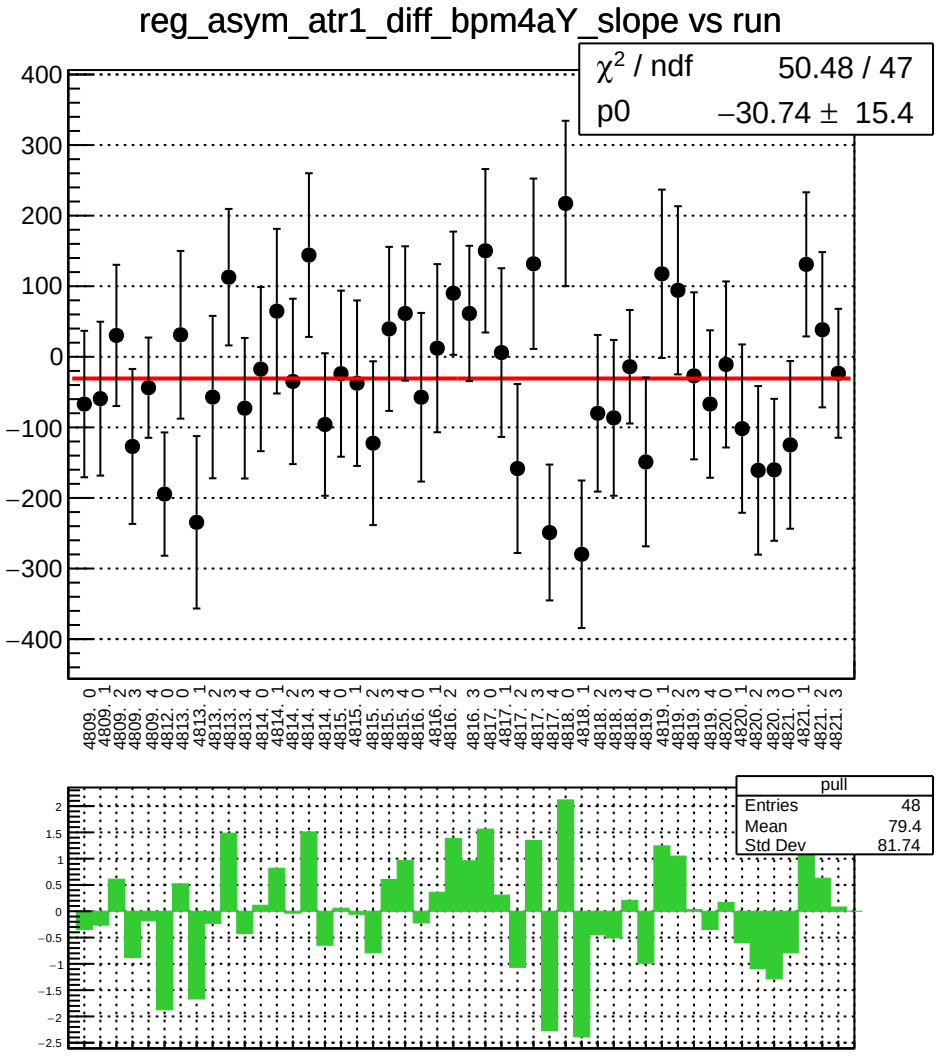

pull1D
Entries 48
Mean −0.1337
Std Dev 1.894

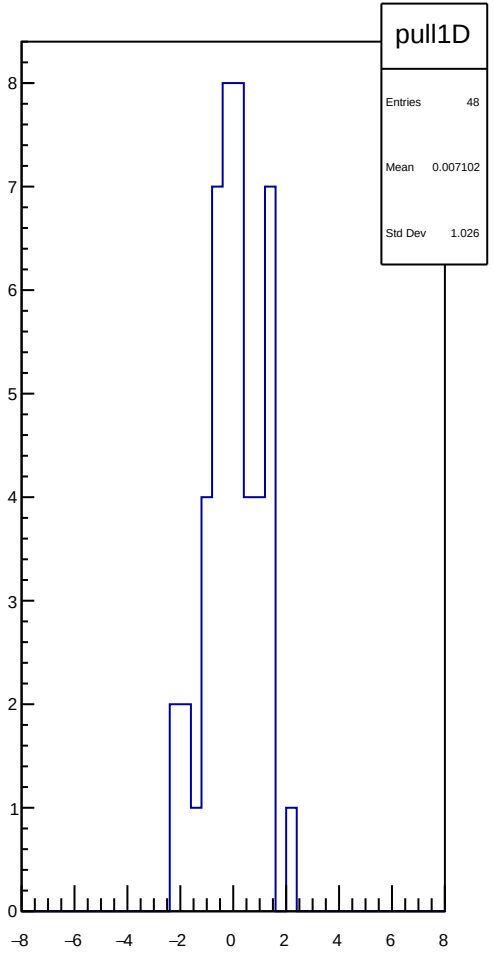

reg_asym_sam8_diff_bpm11X_slope vs run
χ² / ndf 24.8 / 47
p0 −7.51 ± 0.4757
pull
Entries 48
Mean 152.9
Std Dev 137.5

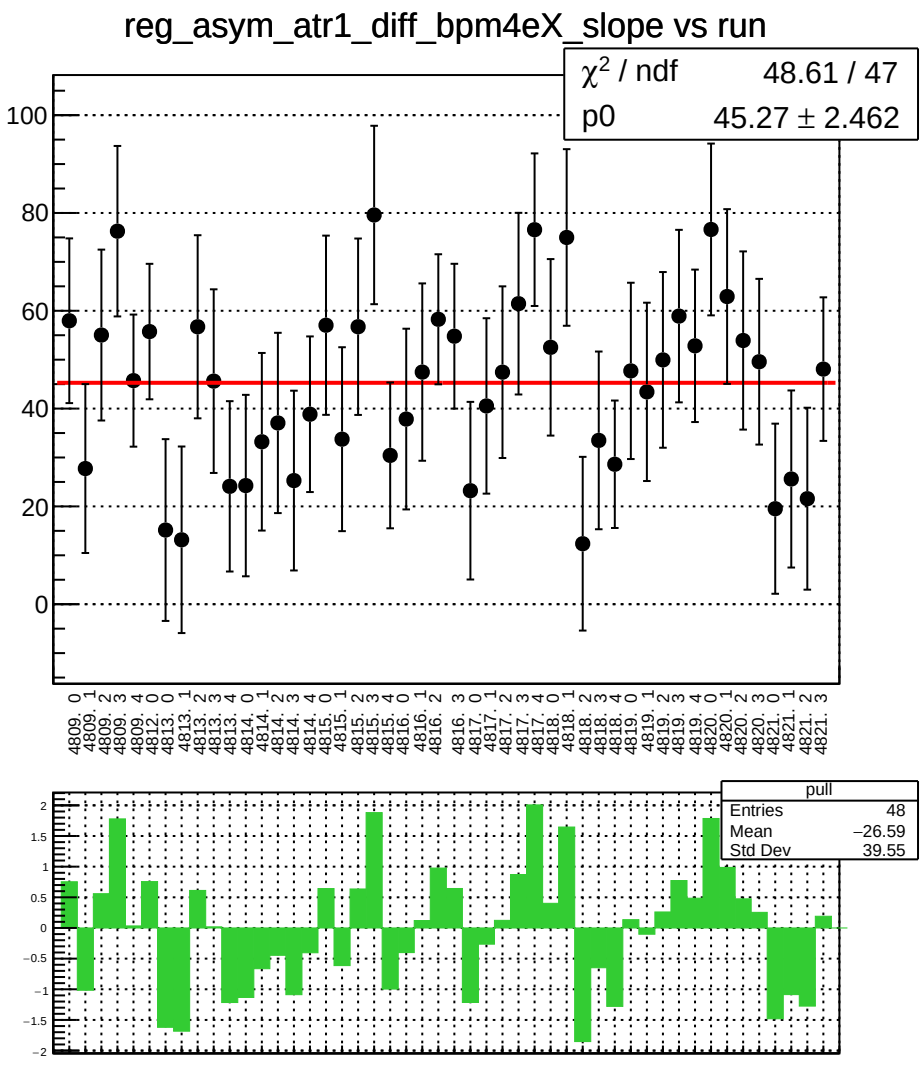

pull1D
Entries 48
Mean −0.01169
Std Dev 0.7188

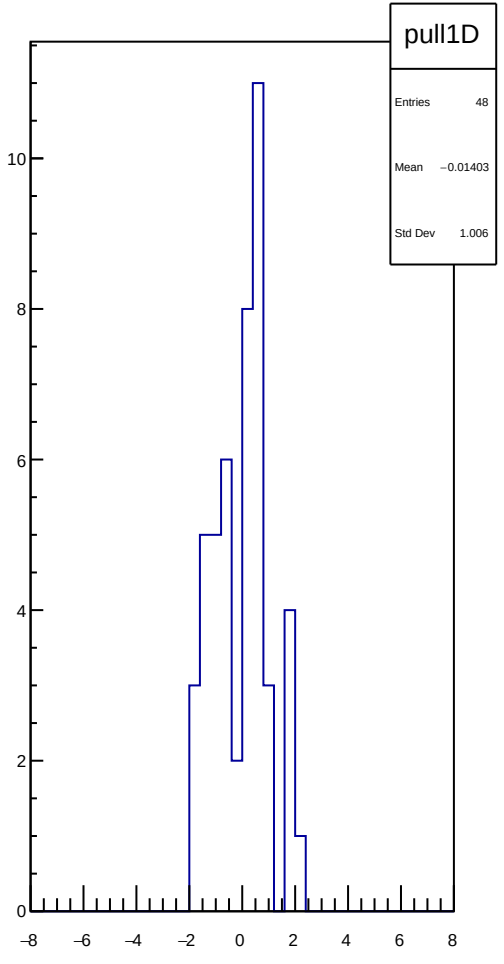

reg_asym_atr1_diff_bpm4aX_slope vs run
χ² / ndf 57.76 / 47
p0 −44.26 ± 12.82
pull
Entries 48
Mean −70.46
Std Dev 80.69

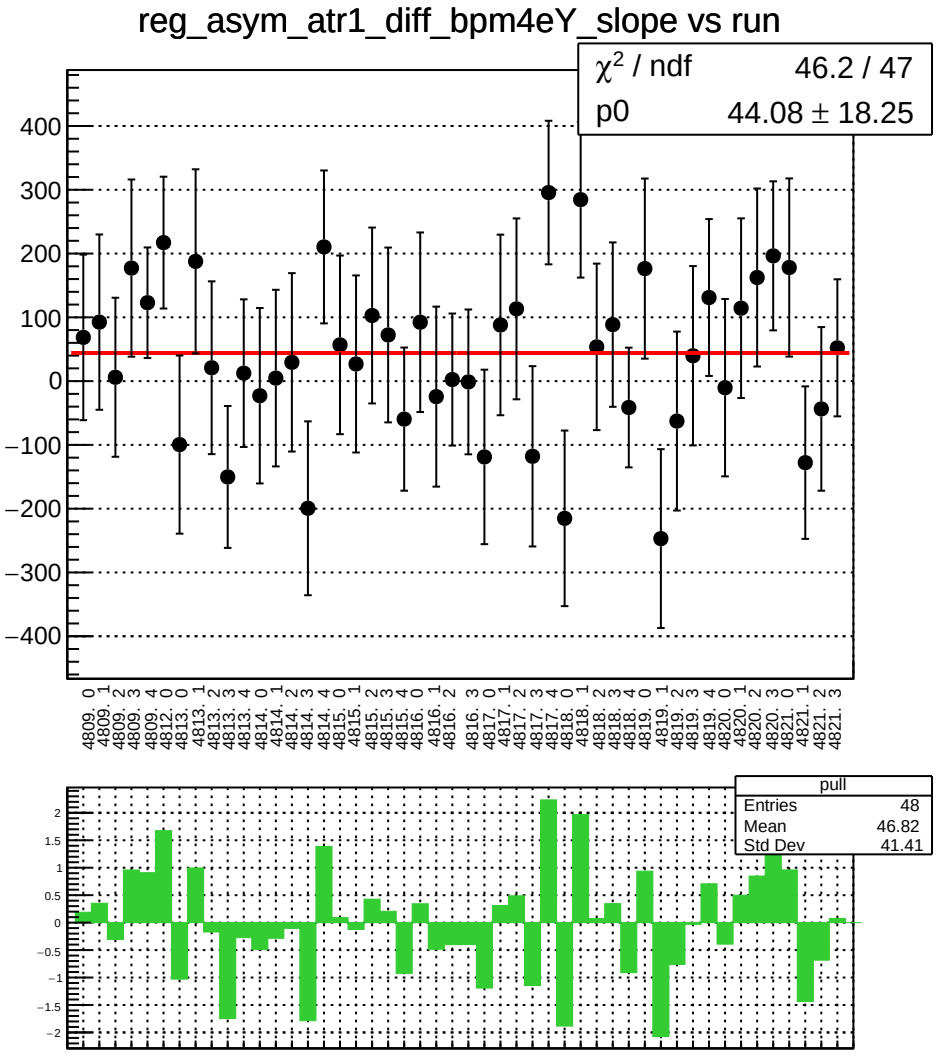

pull1D
Entries 48
Mean −0.01103
Std Dev 1.097

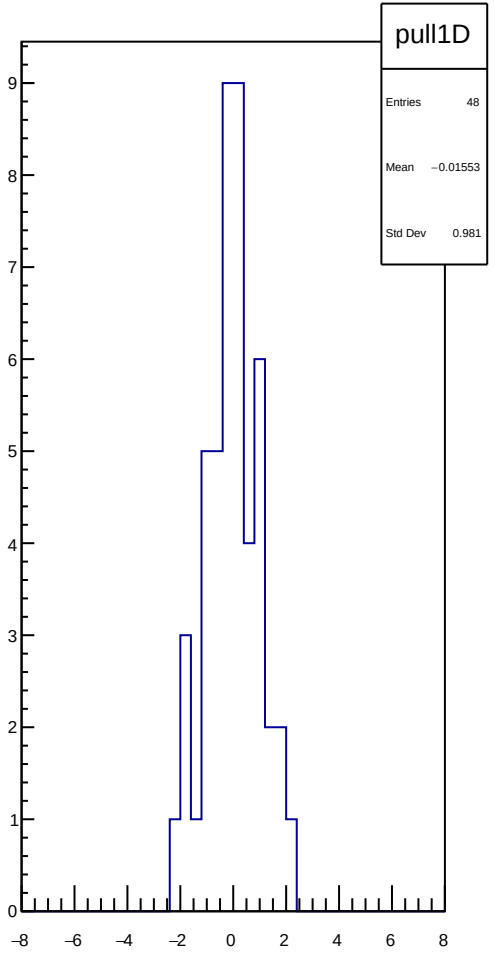

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 50.48 / 47
p0 −30.74 ± 15.4
pull
Entries 48
Mean 79.4
Std Dev 81.74

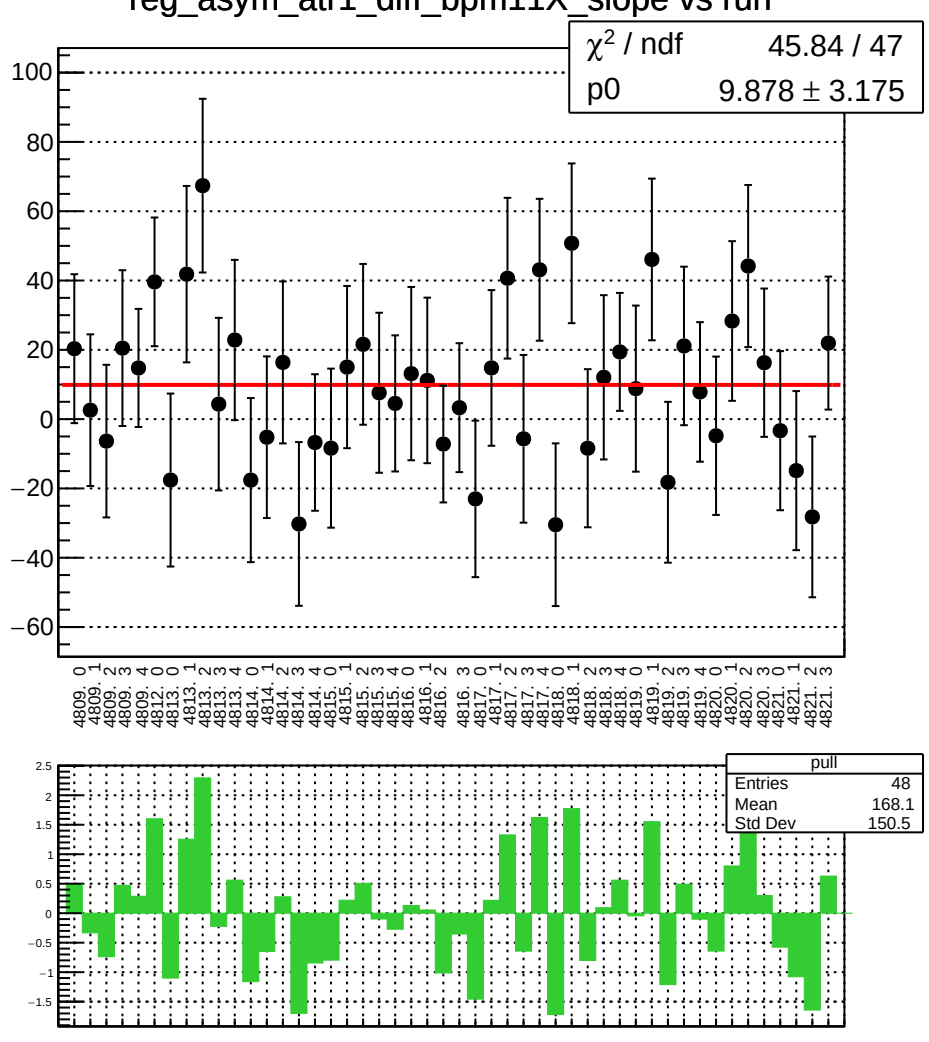

pull1D
Entries 48
Mean 0.007102
Std Dev 1.026

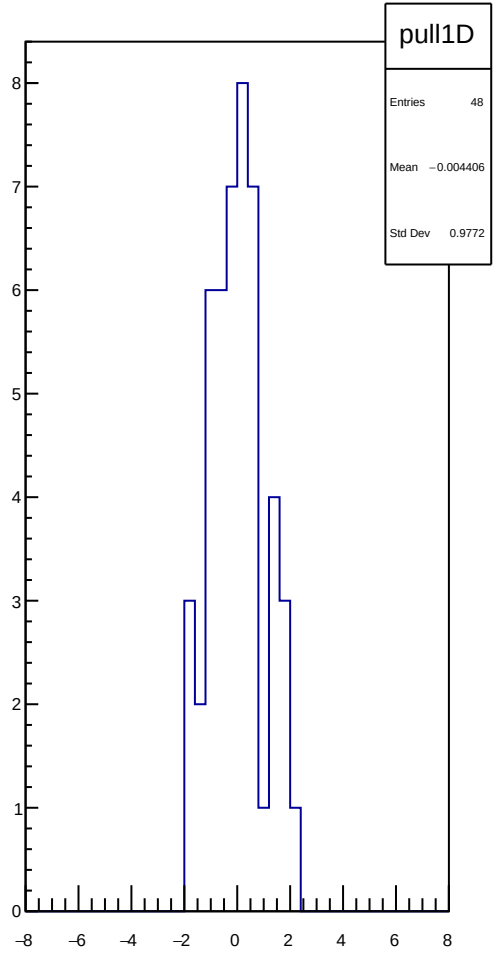

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 48.61 / 47
p0 45.27 ± 2.462
pull
Entries 48
Mean −26.59
Std Dev 39.55

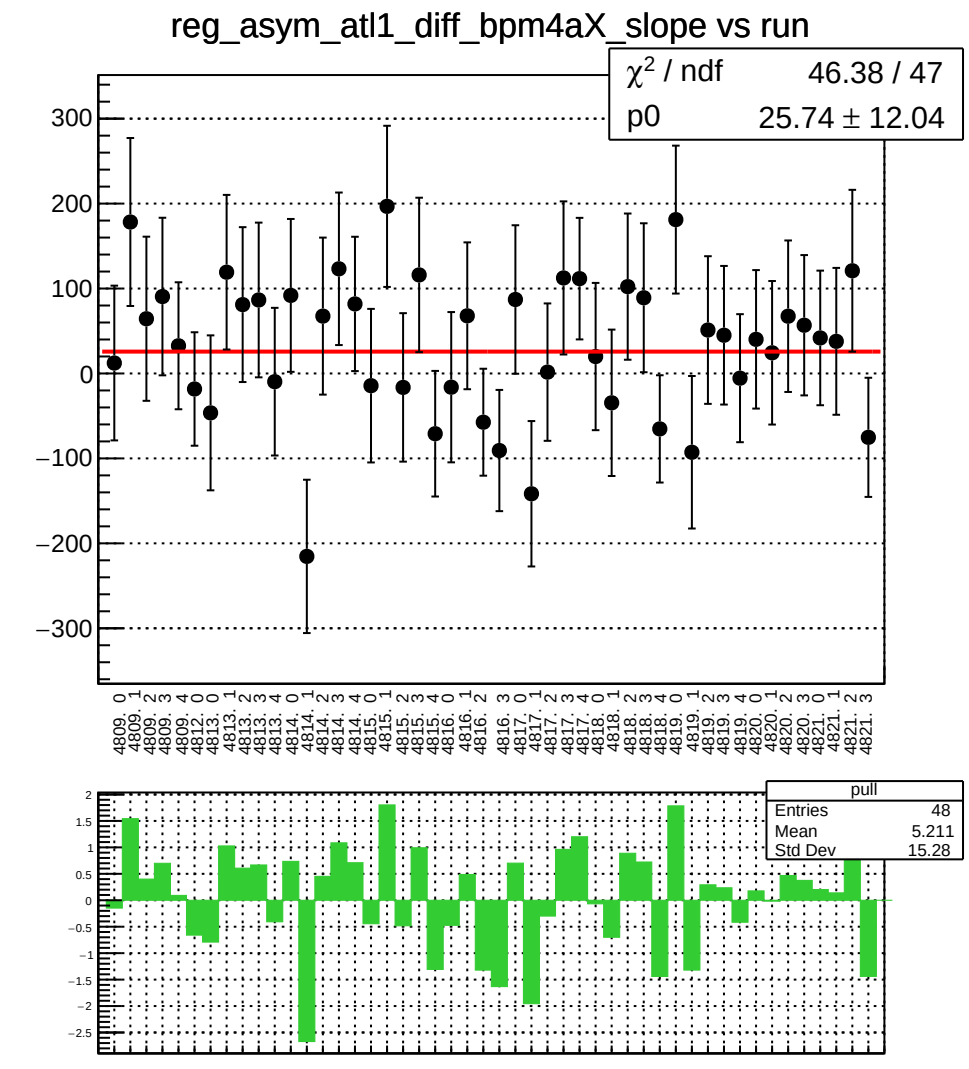

pull1D
Entries 48
Mean −0.01403
Std Dev 1.006

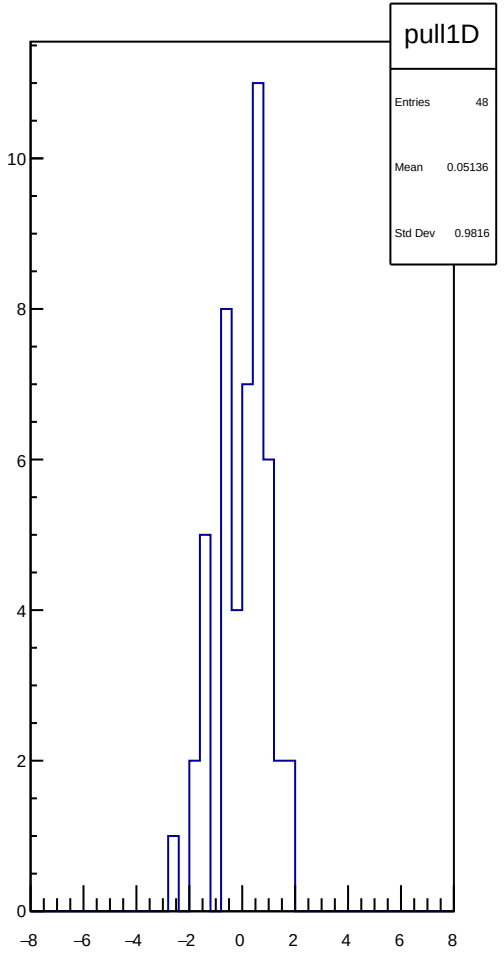

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 46.2 / 47
p0 44.08 ± 18.25
pull
Entries 48
Mean 46.82
Std Dev 41.41

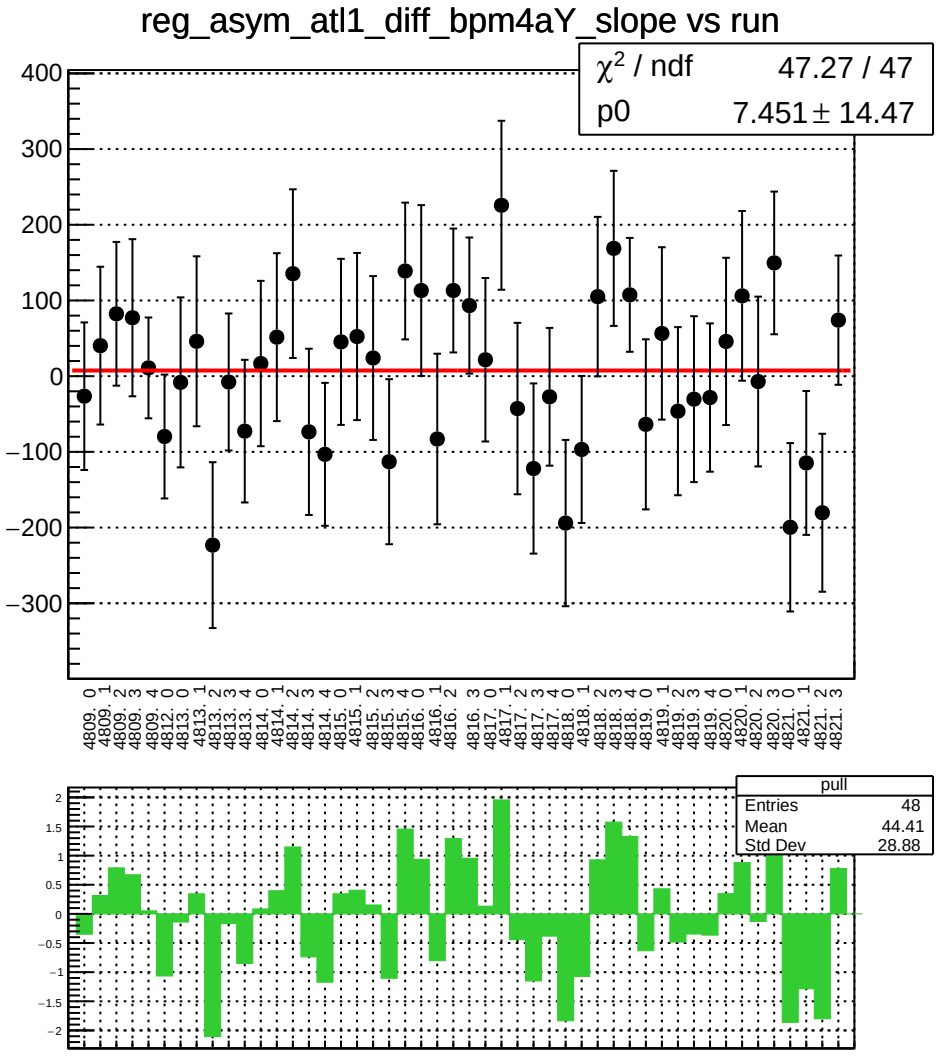

pull1D
Entries 48
Mean −0.01553
Std Dev 0.981

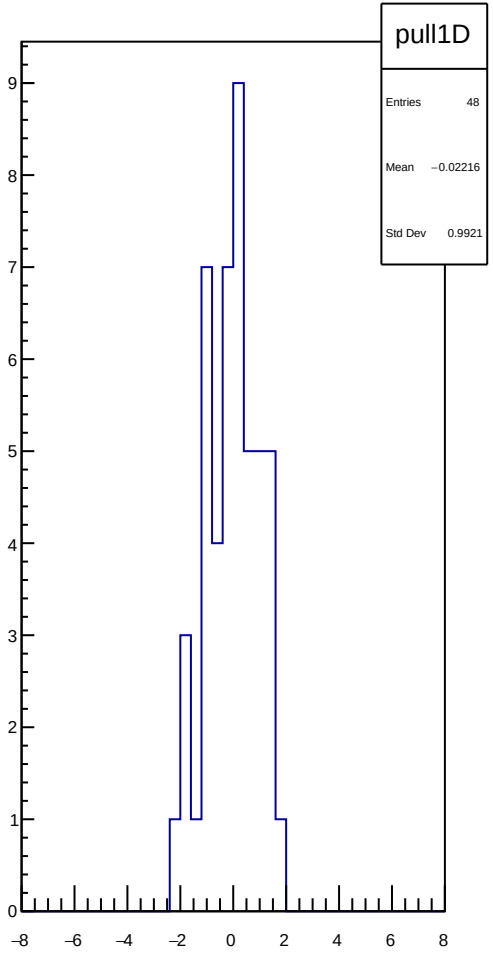

reg_asym_atr1_diff_bpm11X_slope vs run
χ² / ndf 45.84 / 47
p0 9.878 ± 3.175
pull
Entries 48
Mean 168.1
Std Dev 150.5

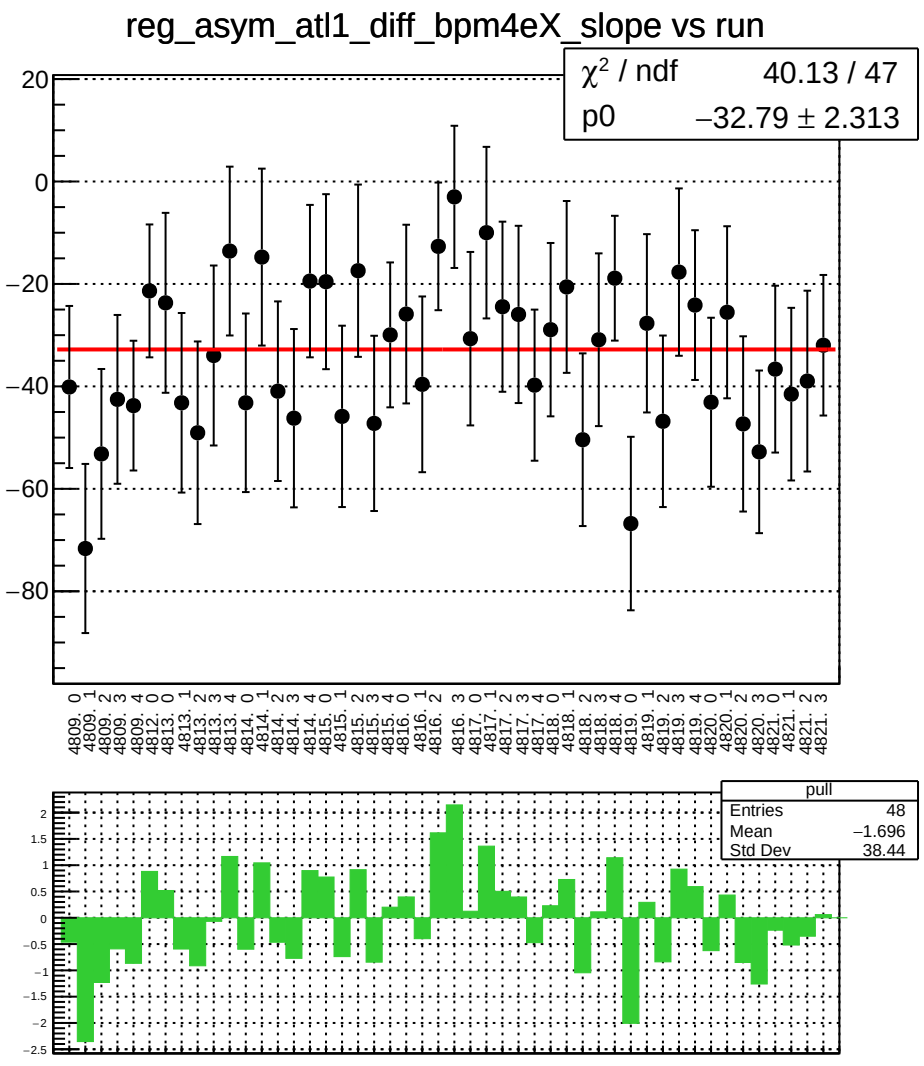

pull1D
Entries 48
Mean −0.004406
Std Dev 0.9772

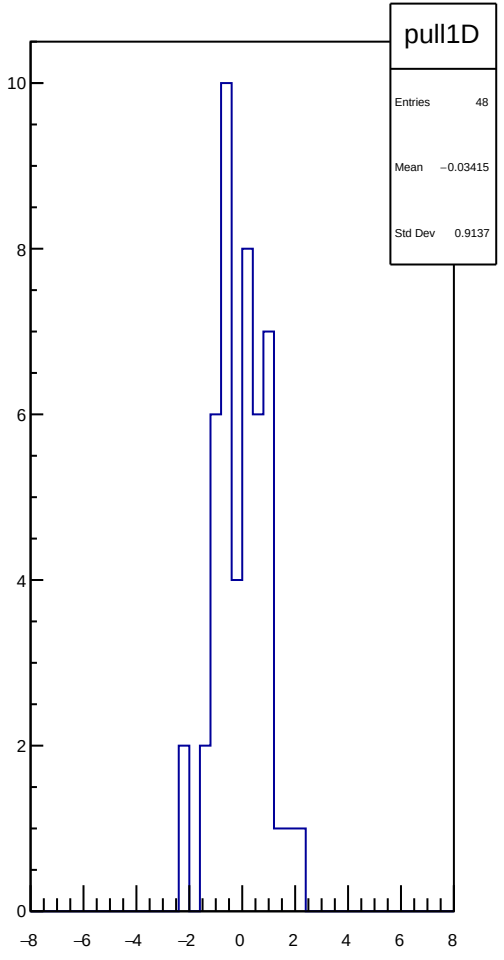

reg_asym_atl1_diff_bpm4aX_slope vs run
χ² / ndf 46.38 / 47
p0 25.74 ± 12.04
pull
Entries 48
Mean 5.211
Std Dev 15.28

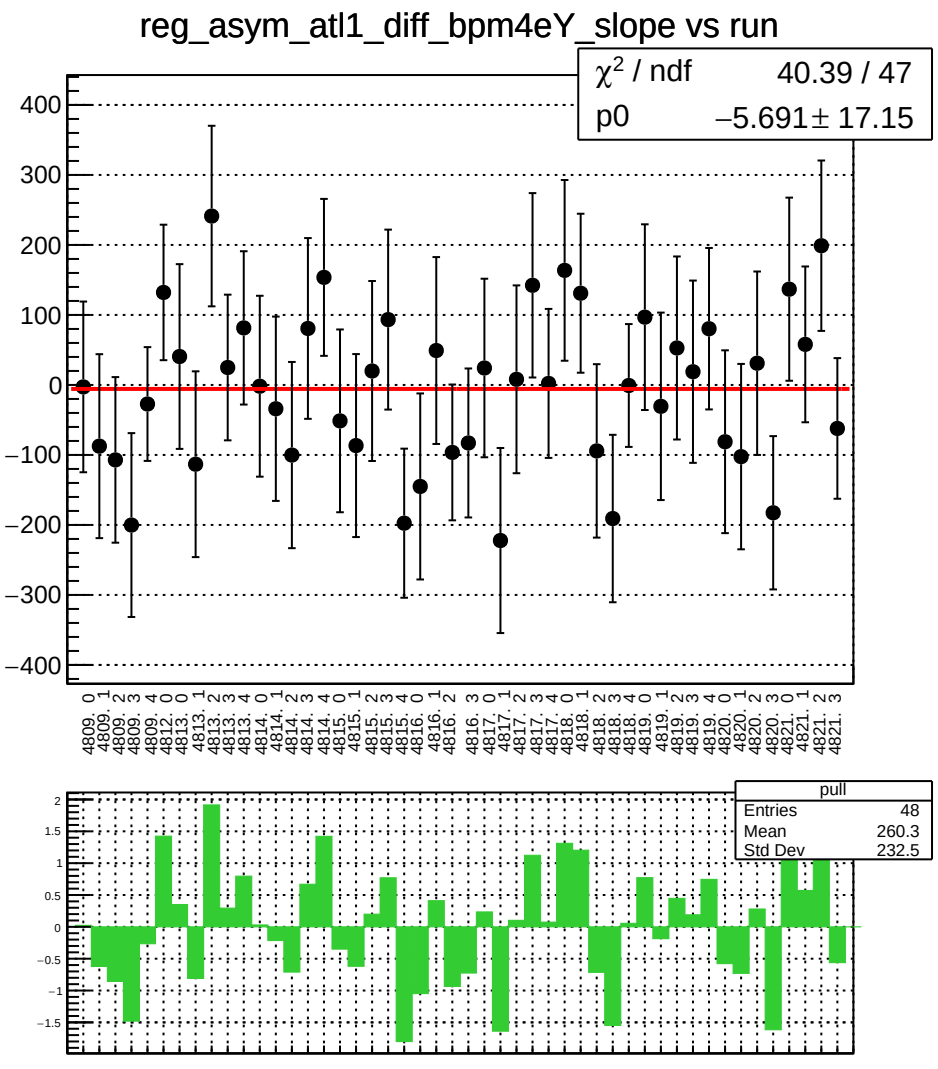

pull1D
Entries 48
Mean 0.05136
Std Dev 0.9816

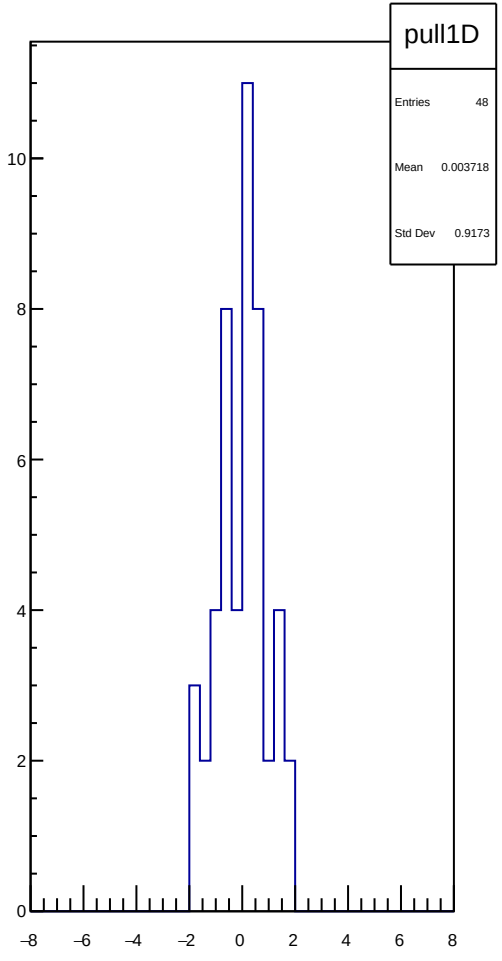

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 47.27 / 47
p0 7.451 ± 14.47
pull
Entries 48
Mean 44.41
Std Dev 28.88

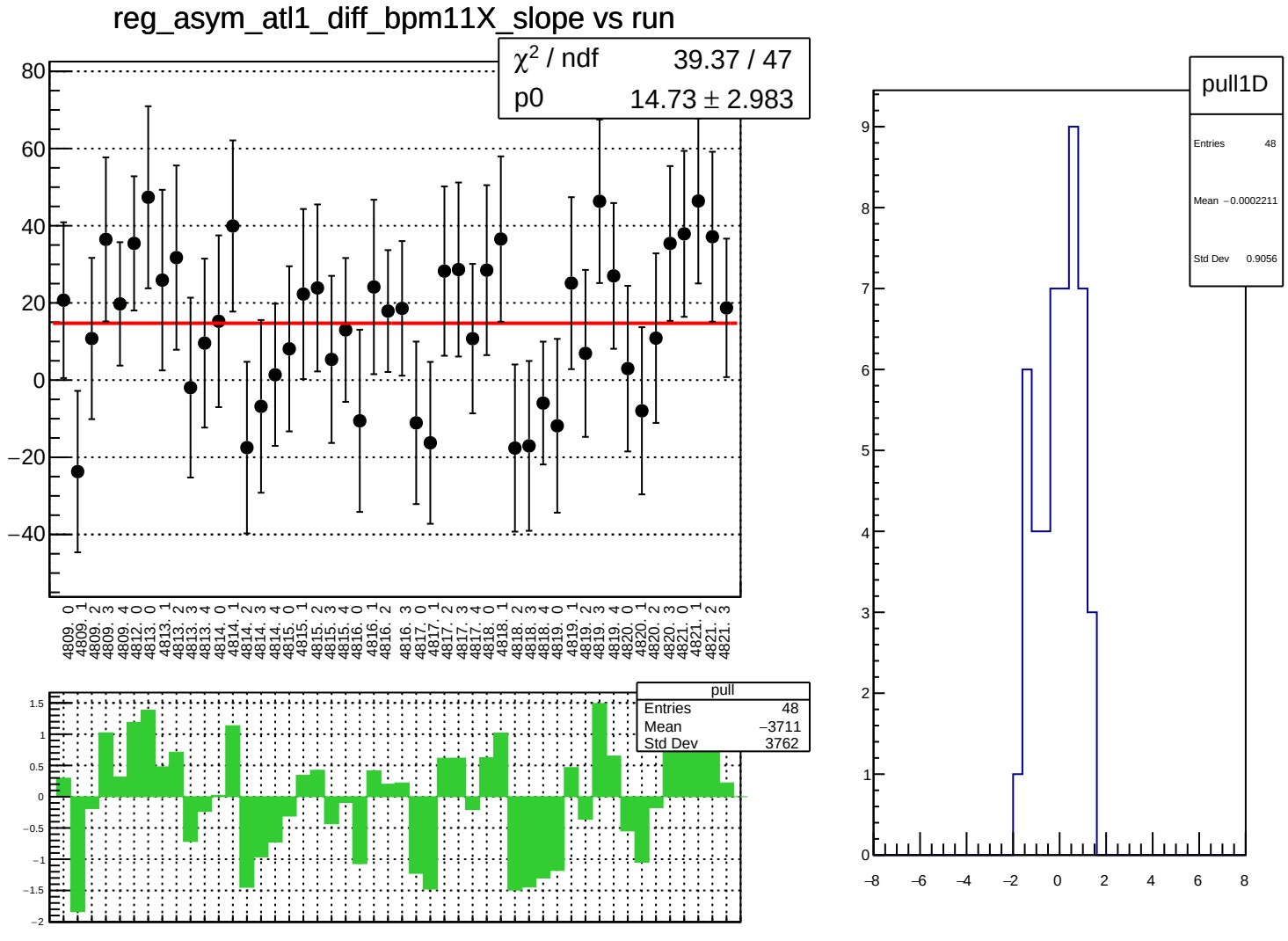

pull1D
Entries 48
Mean −0.02216
Std Dev 0.9921

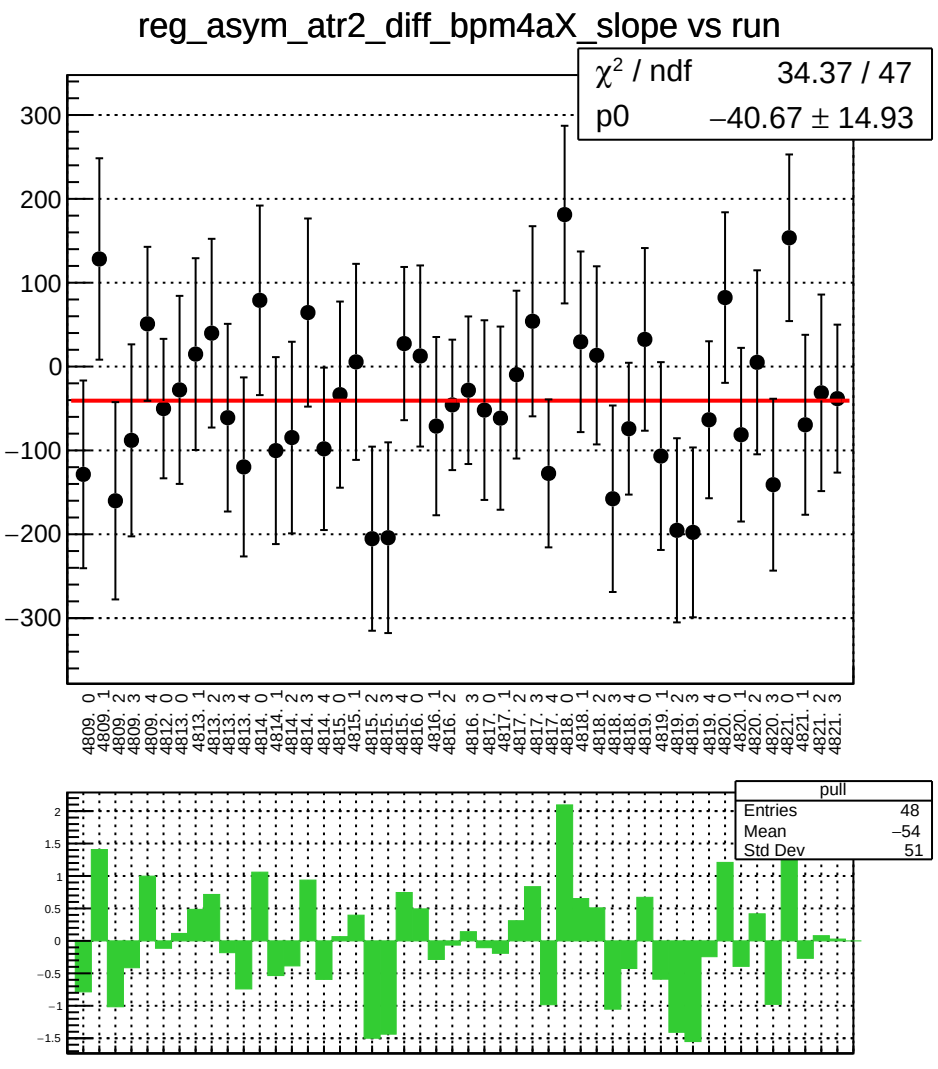

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 40.13 / 47
p0 −32.79 ± 2.313
pull
Entries 48
Mean −1.696
Std Dev 38.44

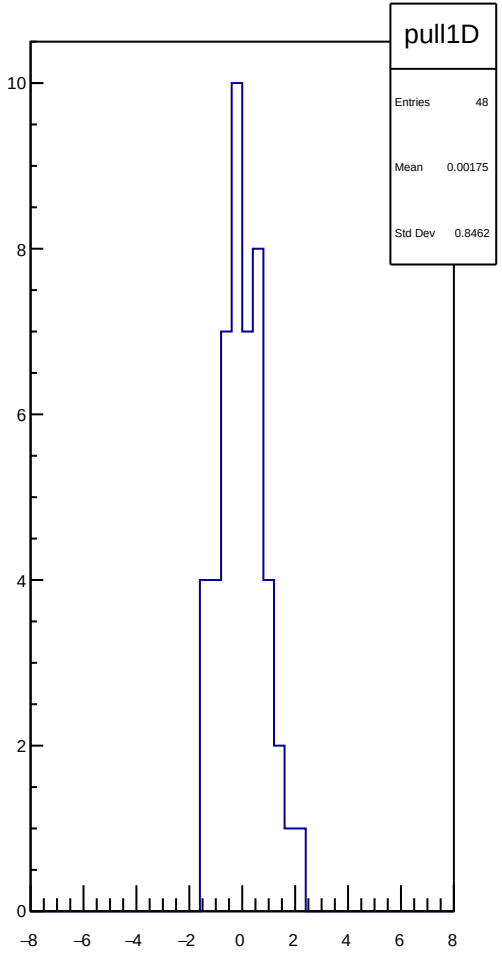

pull1D
Entries 48
Mean −0.03415
Std Dev 0.9137

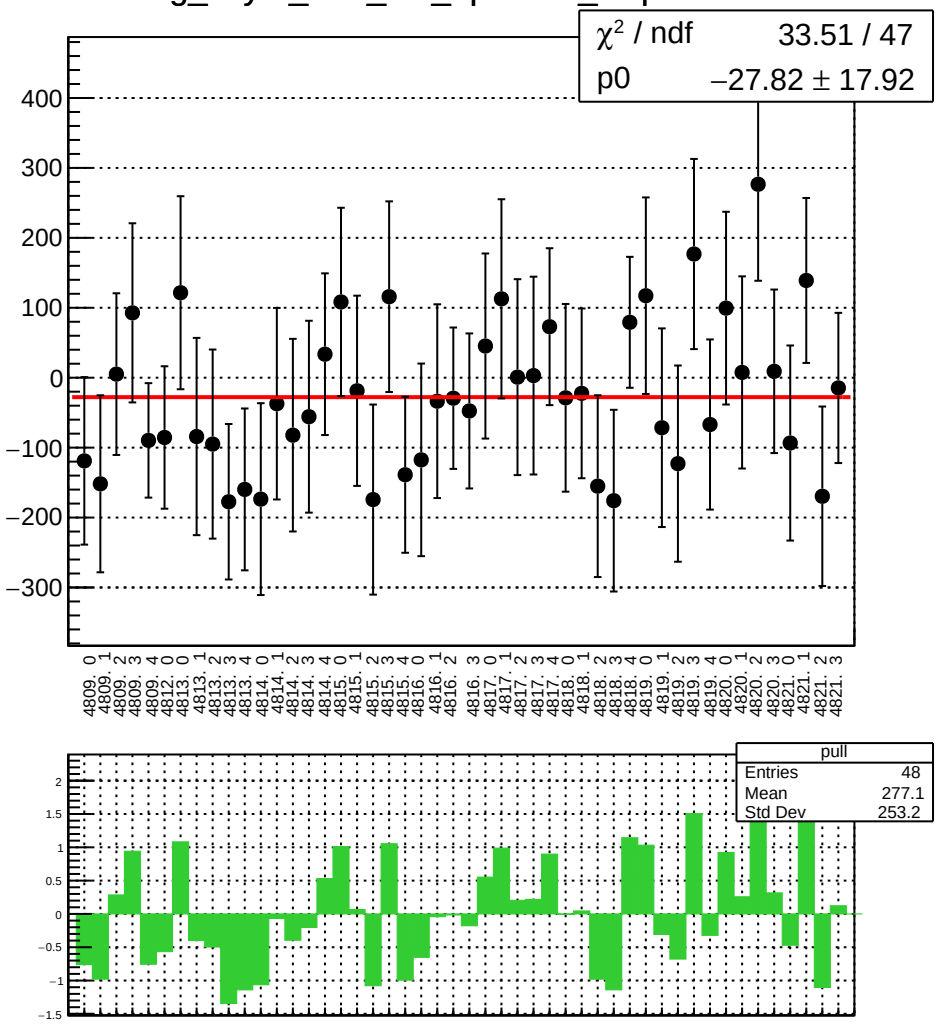

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 40.39 / 47
p0 −5.691 ± 17.15
pull
Entries 48
Mean 260.3
Std Dev 232.5

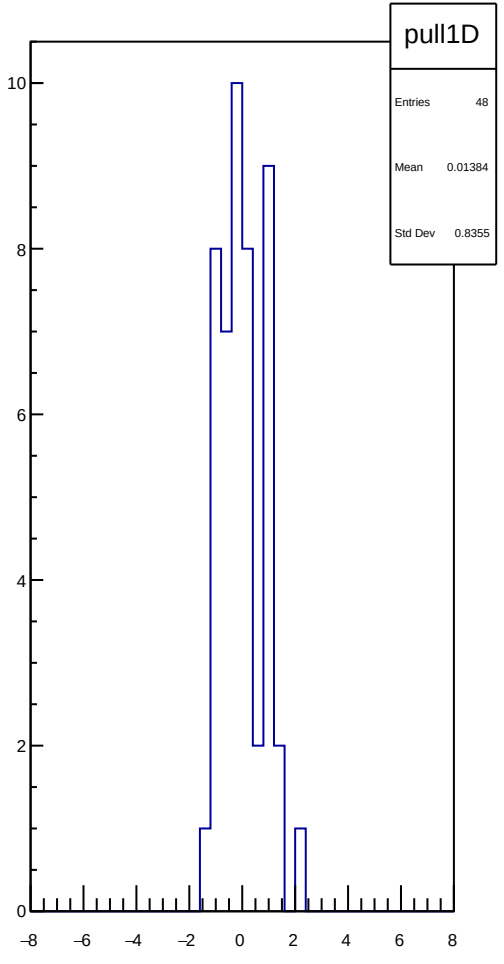

pull1D
Entries 48
Mean 0.003718
Std Dev 0.9173

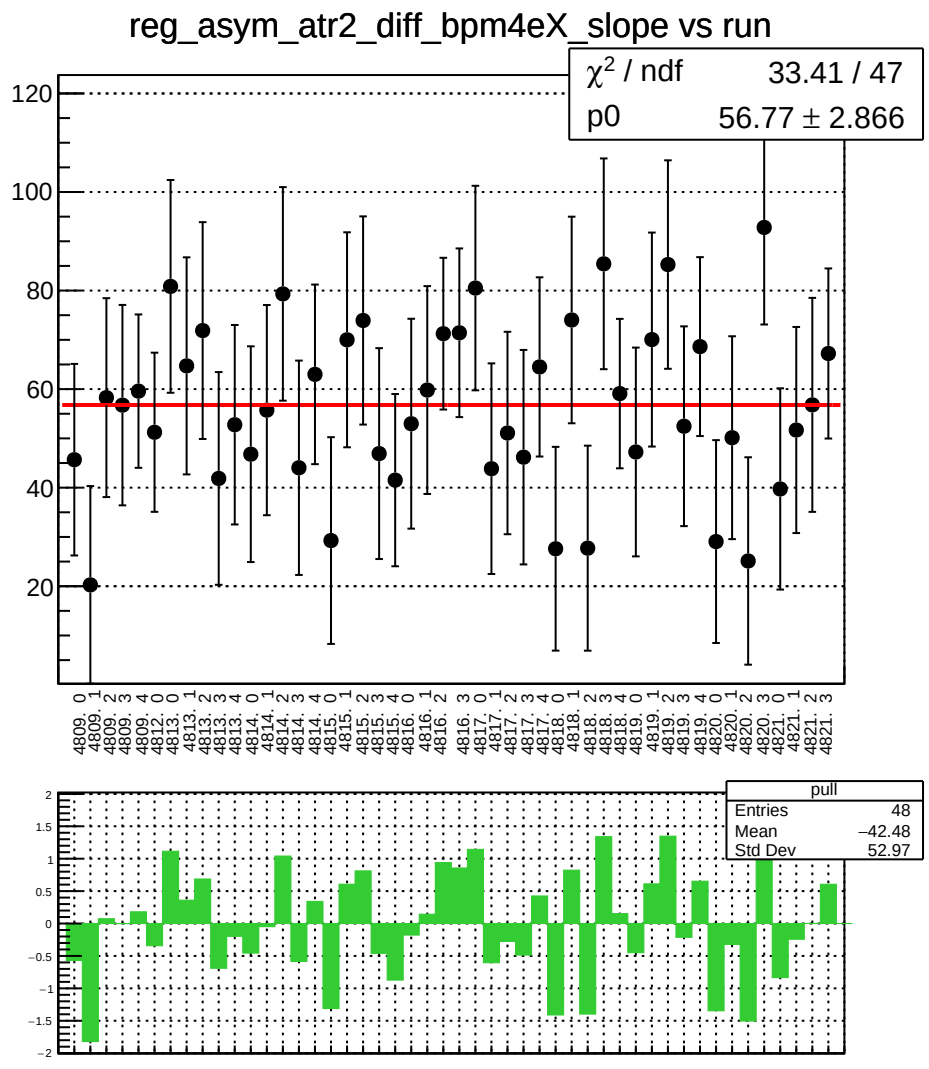

reg_asym_atl1_diff_bpm11X_slope vs run
χ² / ndf 39.37 / 47
p0 14.73 ± 2.983
pull
Entries 48
Mean −3711
Std Dev 3762
pull1D
Entries 48
Mean −0.0002211
Std Dev 0.9056

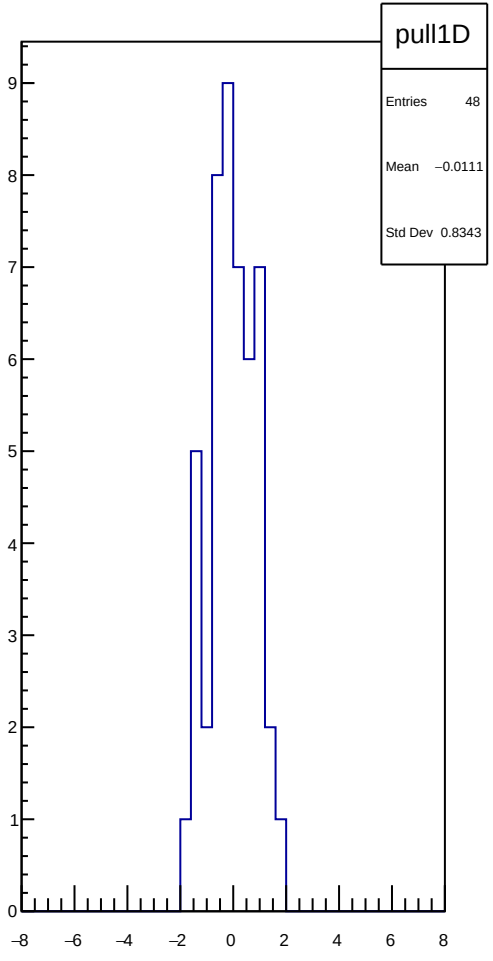

reg_asym_atr2_diff_bpm4aX_slope vs run
χ² / ndf 34.37 / 47
p0 −40.67 ± 14.93
300
200
100
0
−100
−200
−300
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean −54
Std Dev 51
2
1.5
1
0.5
0
−0.5
−1
−1.5

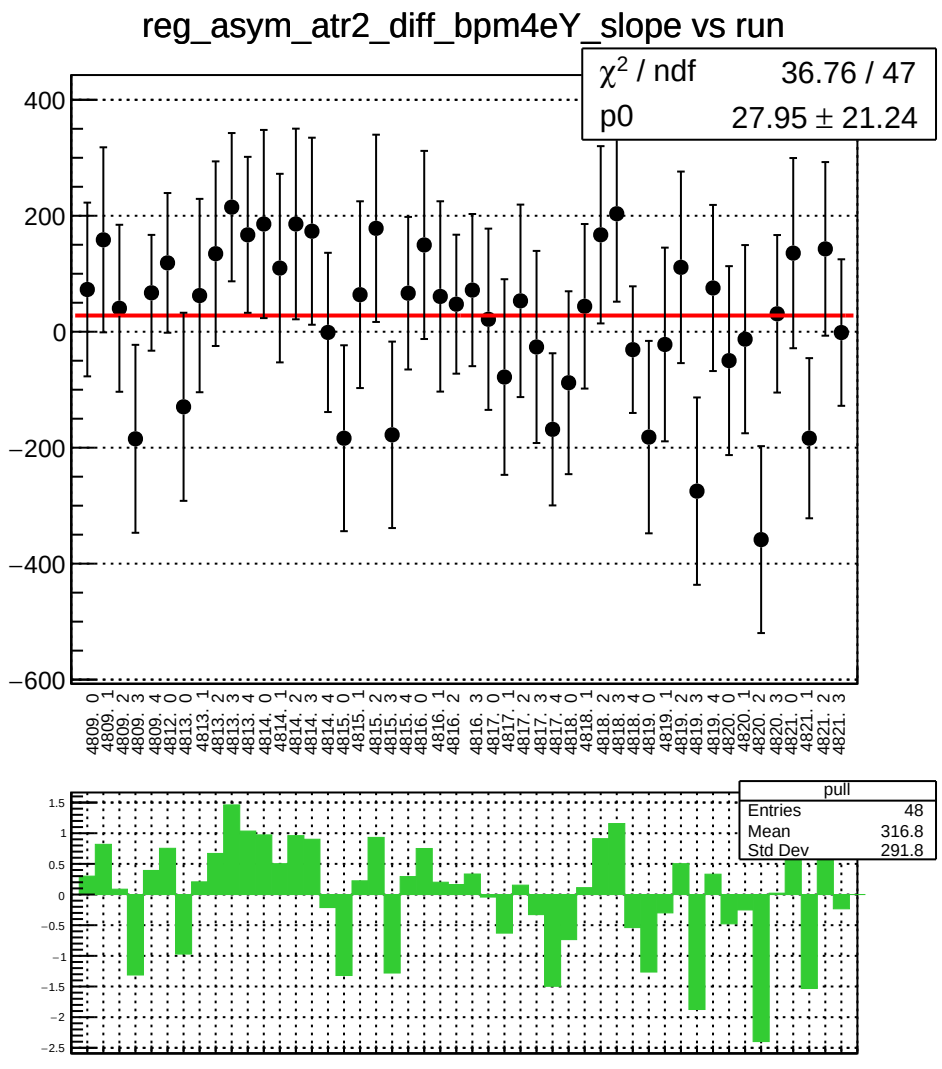

pull1D
Entries 48
Mean 0.00175
Std Dev 0.8462
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

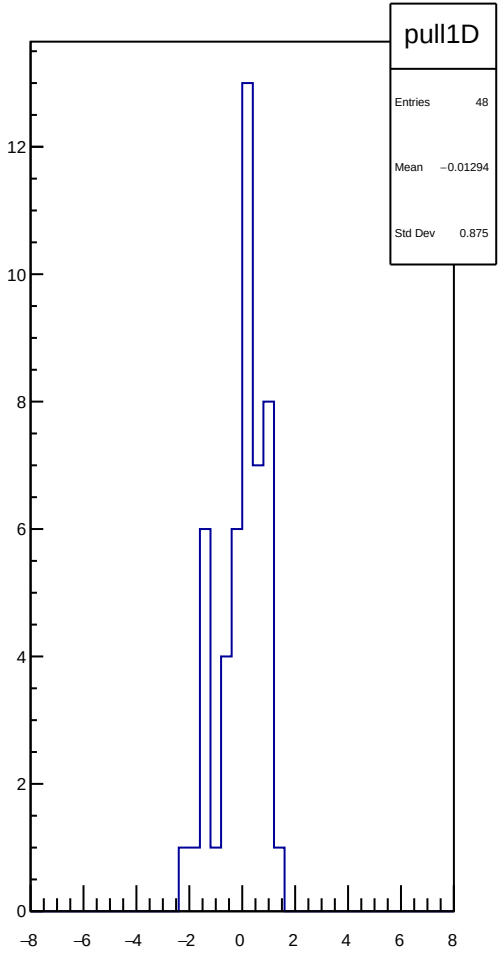

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 33.51 / 47
p0 −27.82 ± 17.92
pull
Entries 48
Mean 277.1
Std Dev 253.2

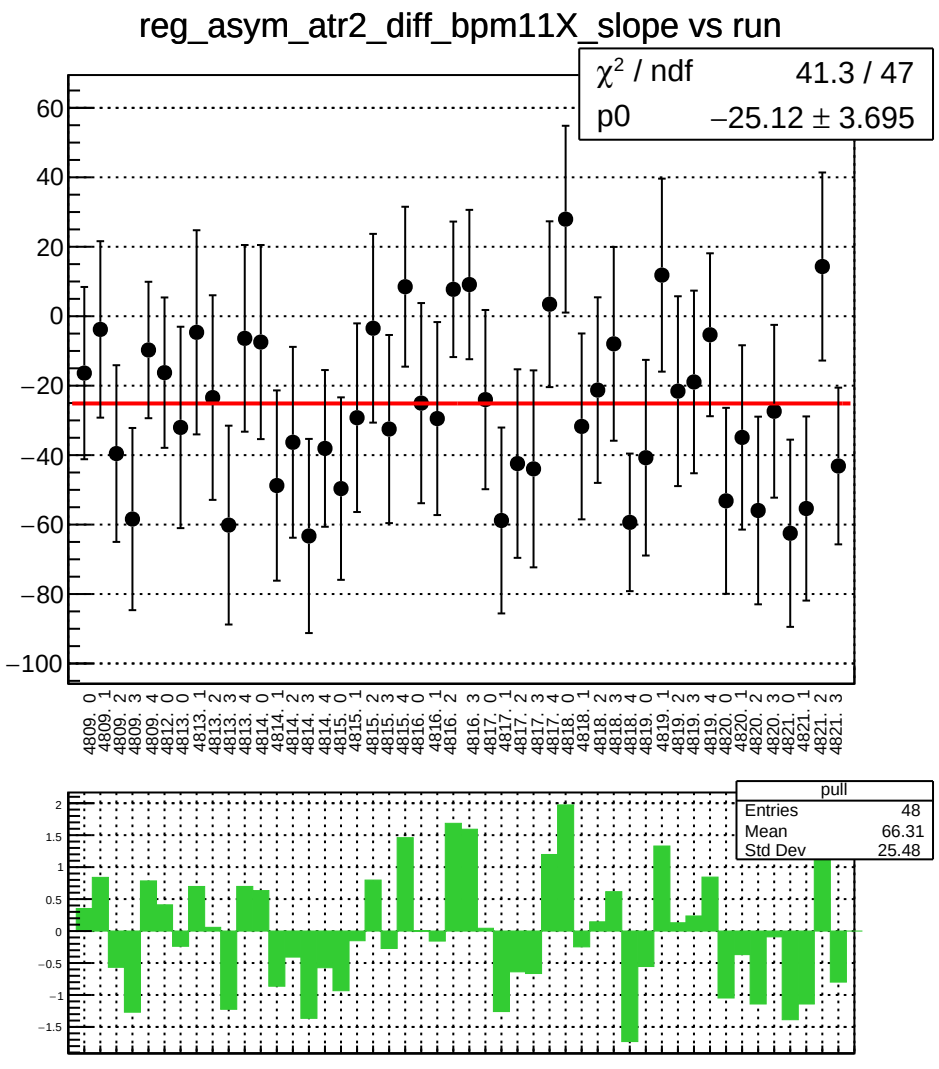

pull1D
Entries 48
Mean 0.01384
Std Dev 0.8355

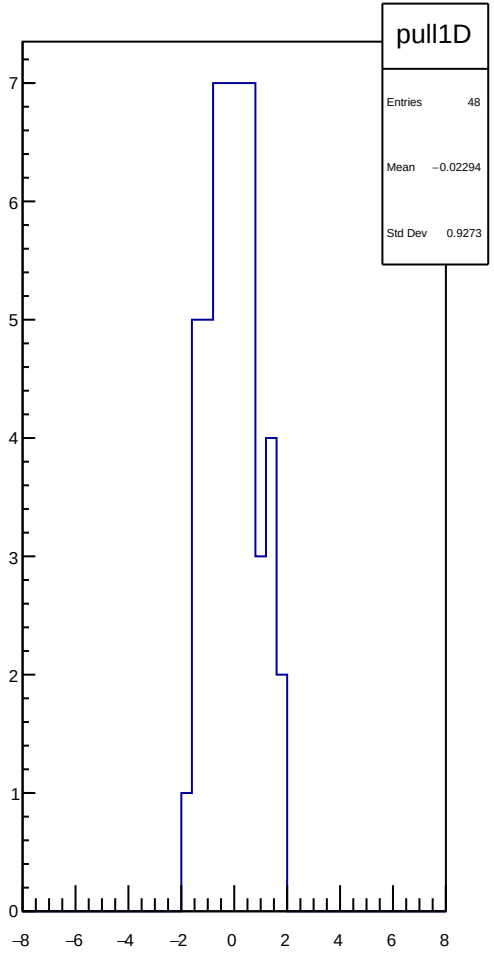

reg_asym_atr2_diff_bpm4eX_slope vs run
χ^2 / ndf 33.41 / 47
p0 56.77 ± 2.866
pull
Entries 48
Mean −42.48
Std Dev 52.97

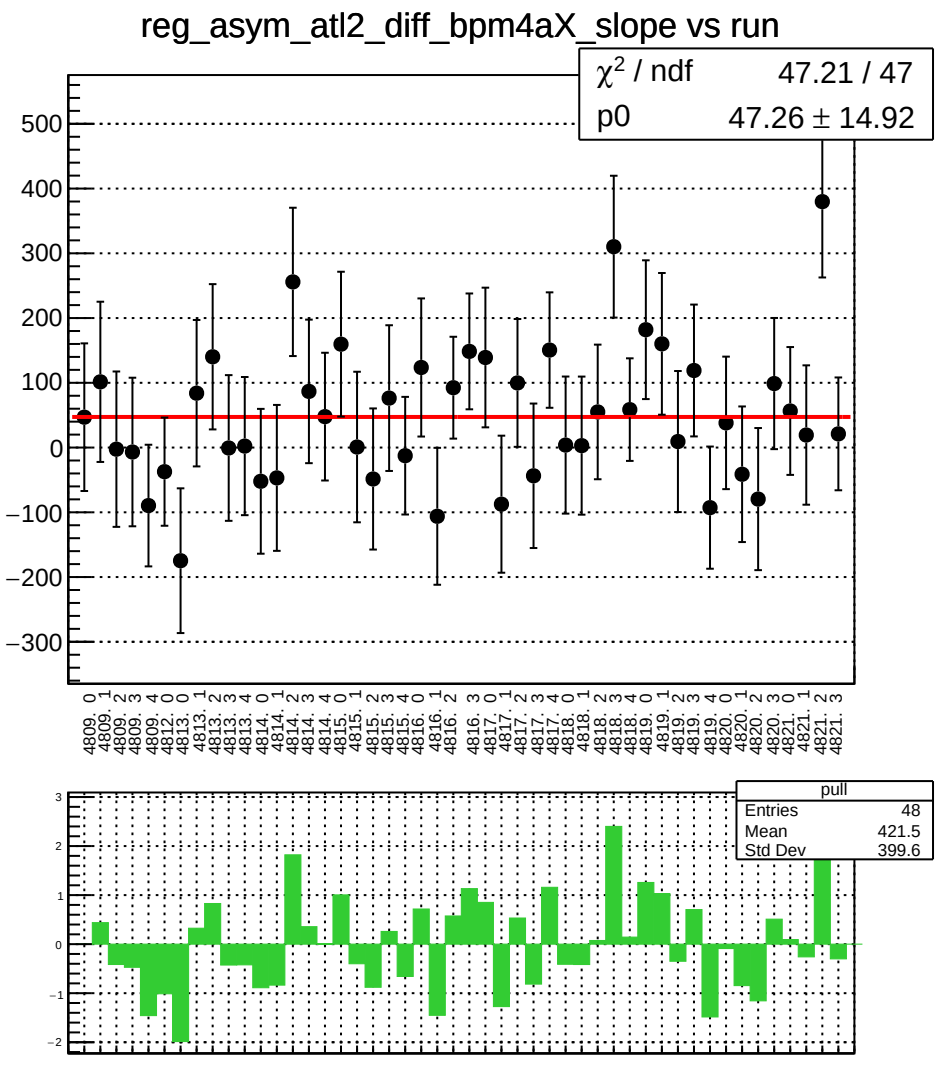

pull1D
Entries 48
Mean −0.0111
Std Dev 0.8343

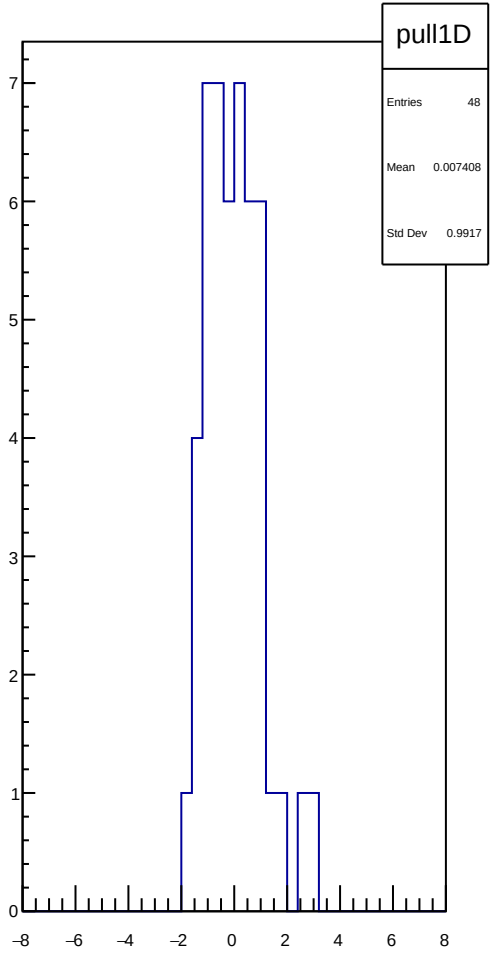

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 36.76 / 47
p0 27.95 ± 21.24
400
200
0
−200
−400
−600
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 316.8
Std Dev 291.8
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

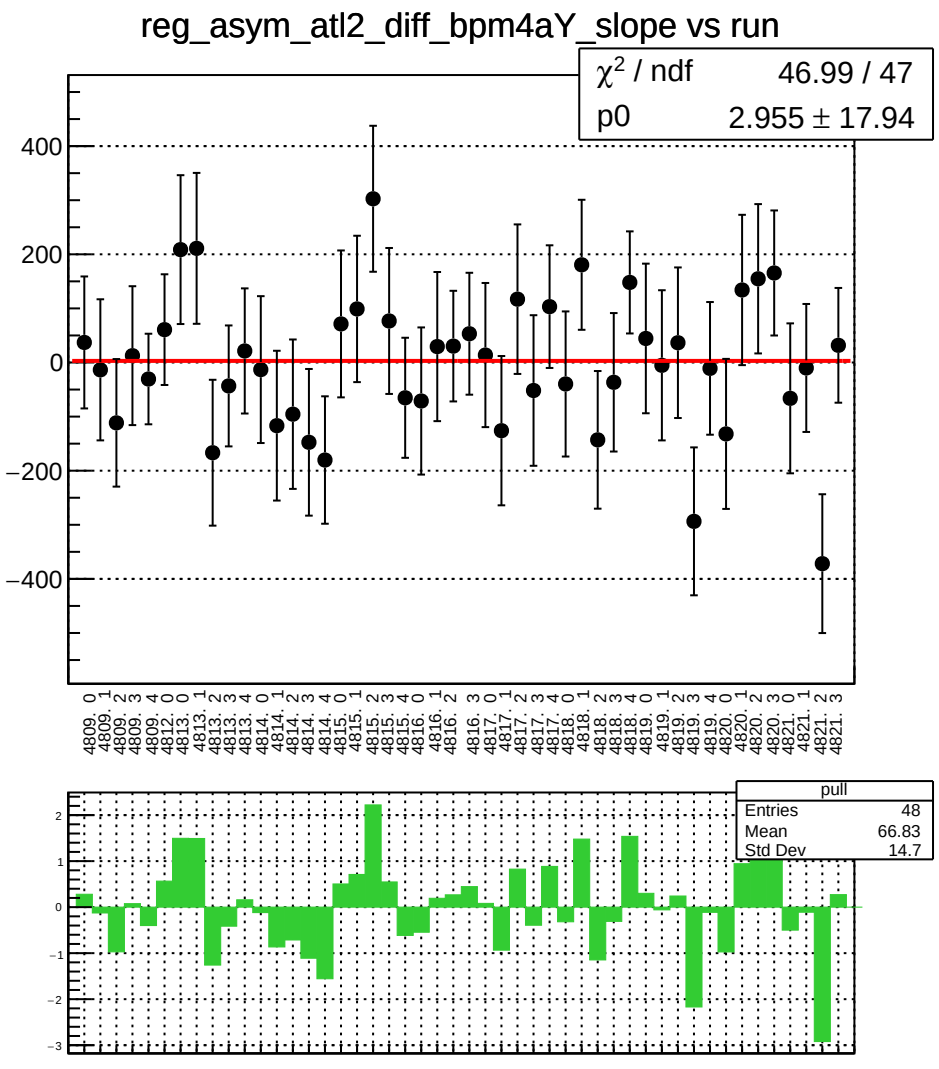

pull1D
Entries 48
Mean −0.01294
Std Dev 0.875
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

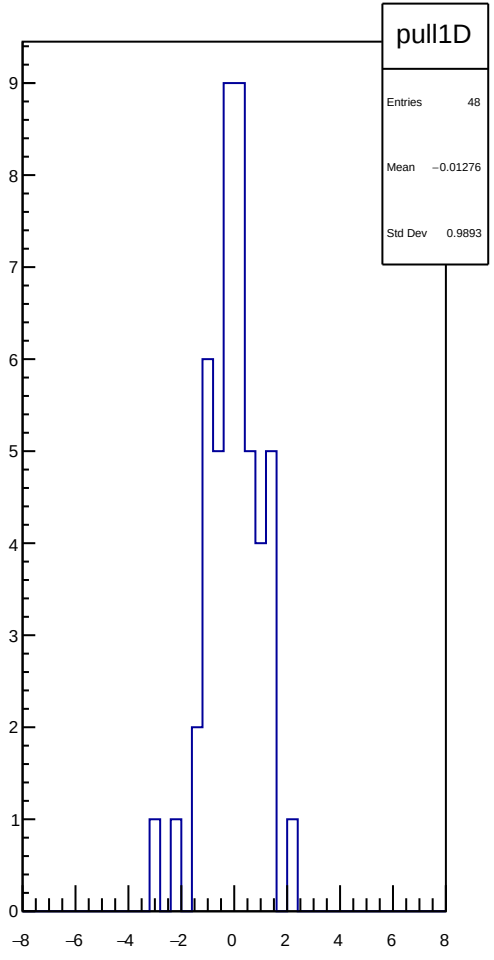

reg_asym_atr2_diff_bpm11X_slope vs run
χ² / ndf 41.3 / 47
p0 −25.12 ± 3.695
pull
Entries 48
Mean 66.31
Std Dev 25.48

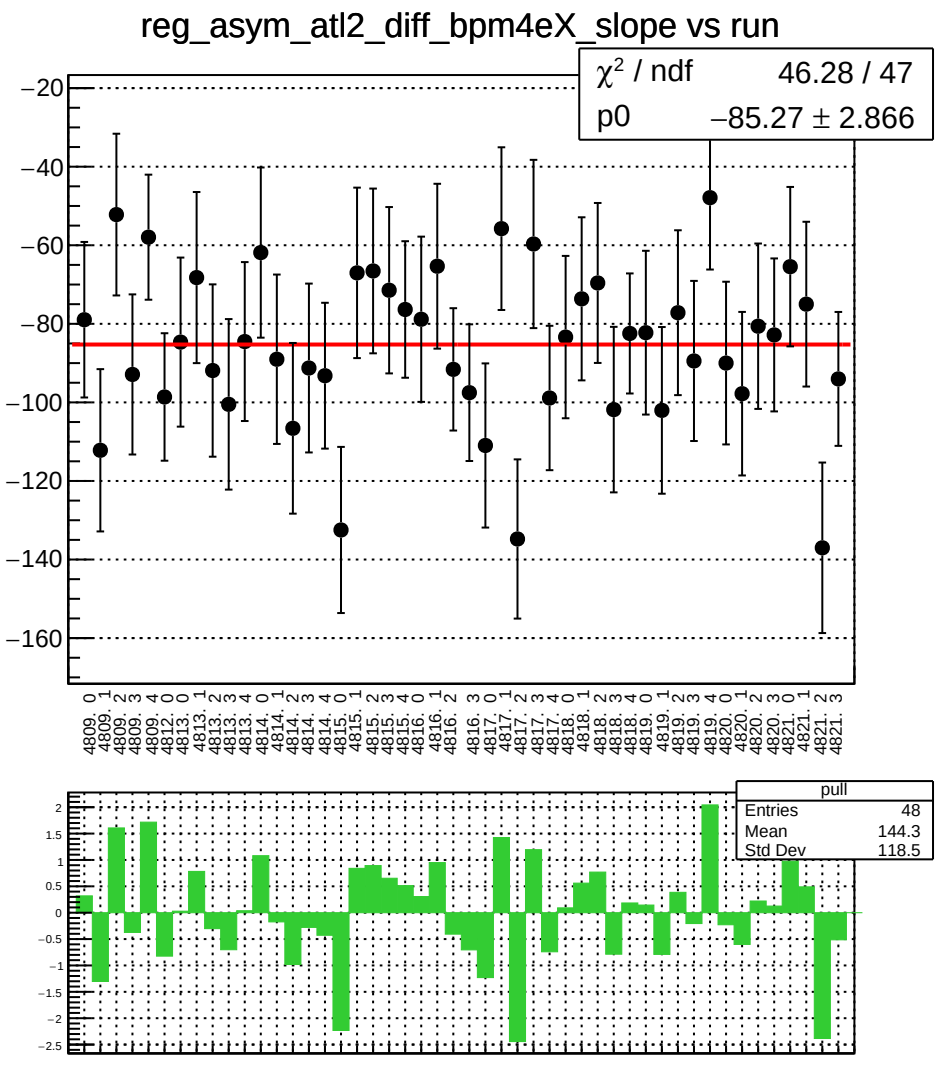

pull1D
Entries 48
Mean −0.02294
Std Dev 0.9273

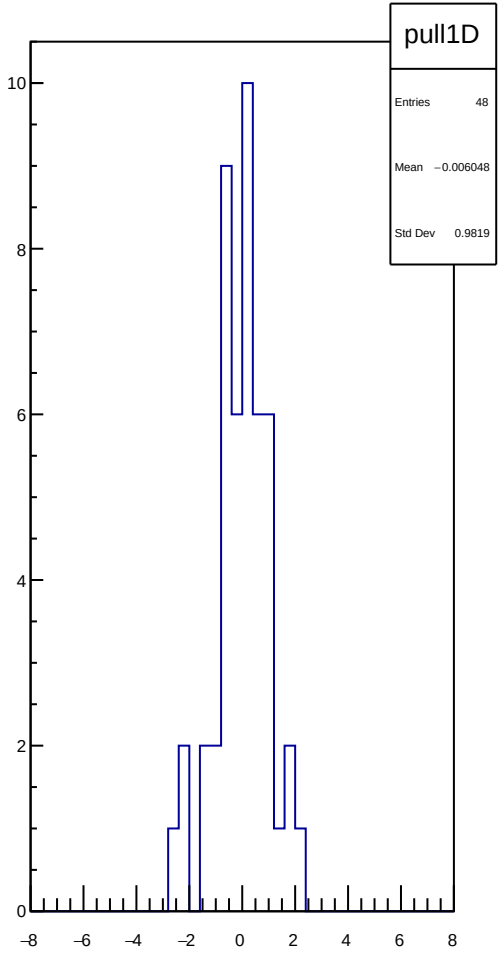

reg_asym_atl2_diff_bpm4aX_slope vs run
χ² / ndf 47.21 / 47
p0 47.26 ± 14.92
pull
Entries 48
Mean 421.5
Std Dev 399.6

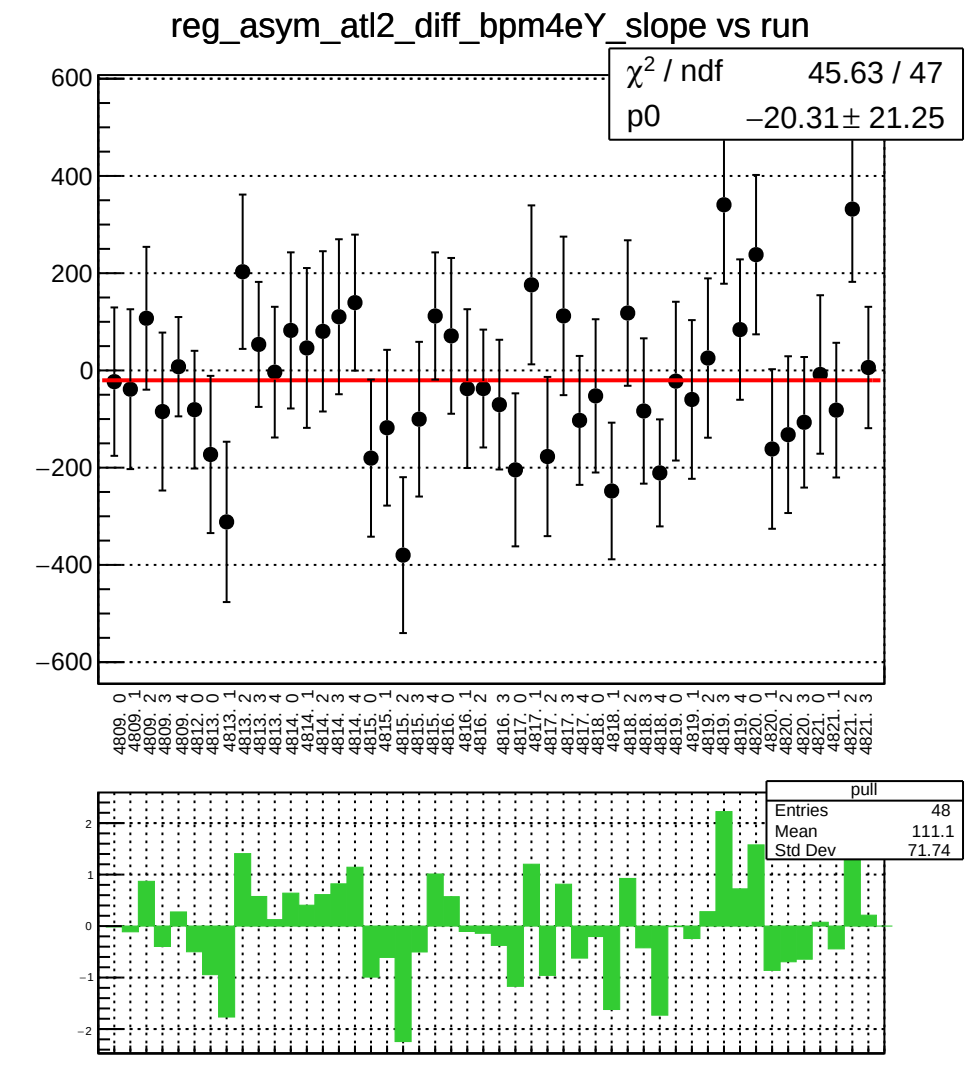

pull1D
Entries 48
Mean 0.007408
Std Dev 0.9917

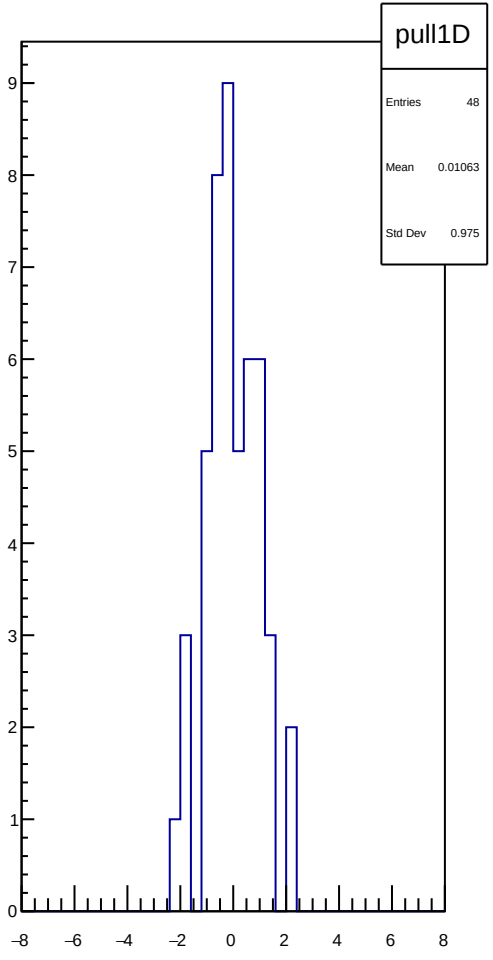

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 46.99 / 47
p0 2.955 ± 17.94
400
200
0
−200
−400
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 66.83
Std Dev 14.7
2
1
0
−1
−2
−3

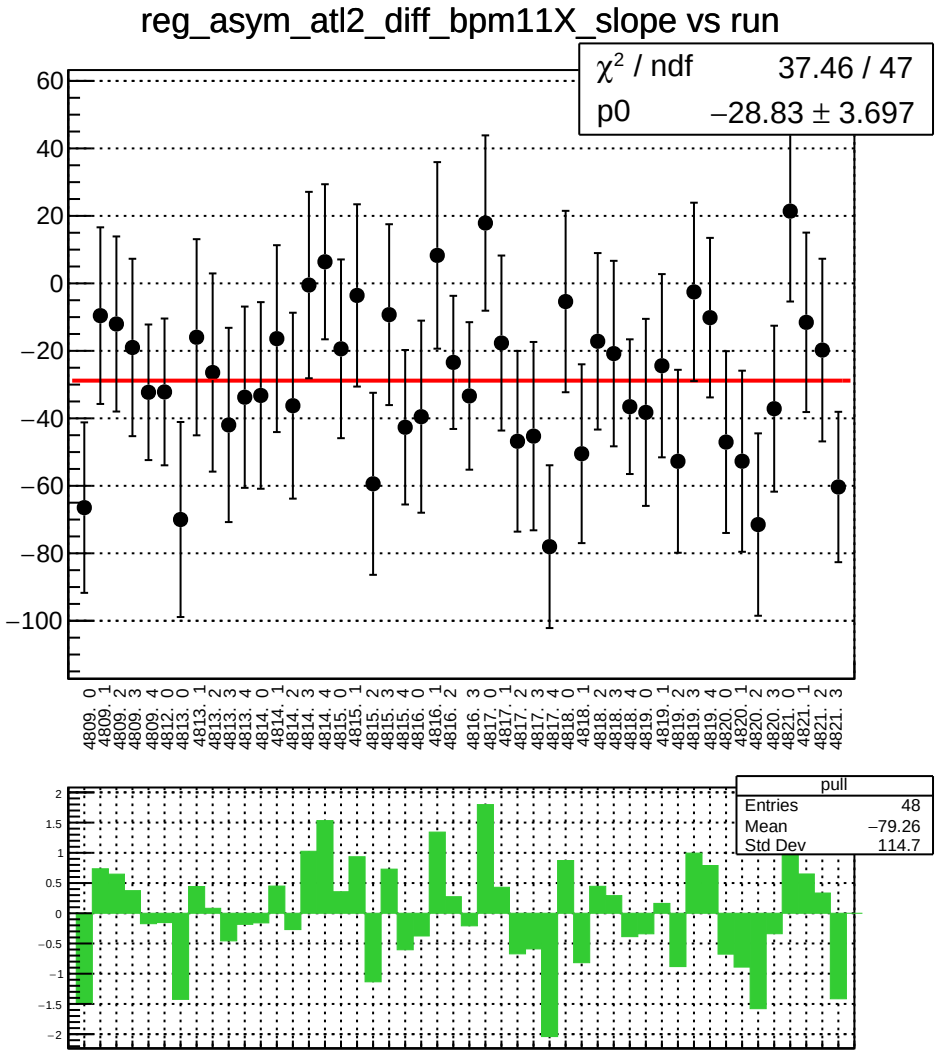

pull1D
Entries 48
Mean −0.01276
Std Dev 0.9893
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

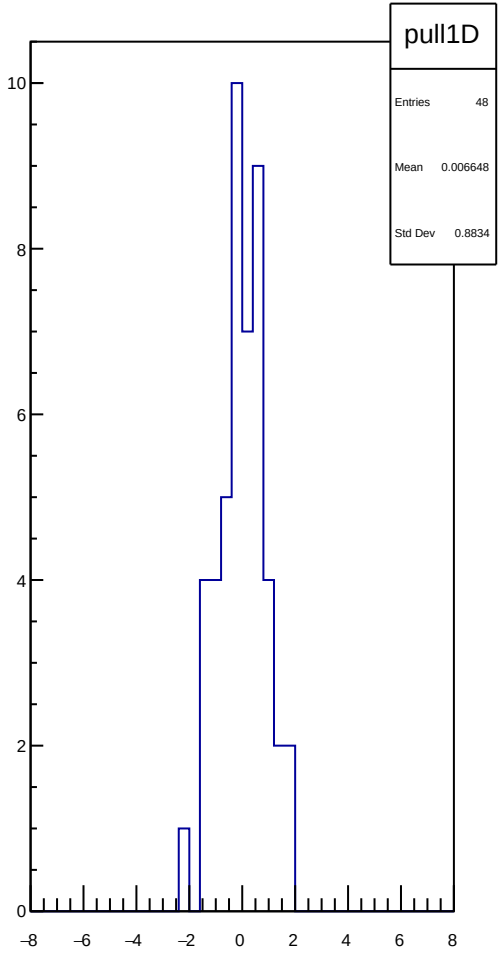

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 46.28 / 47
p0 −85.27 ± 2.866
pull
Entries 48
Mean 144.3
Std Dev 118.5

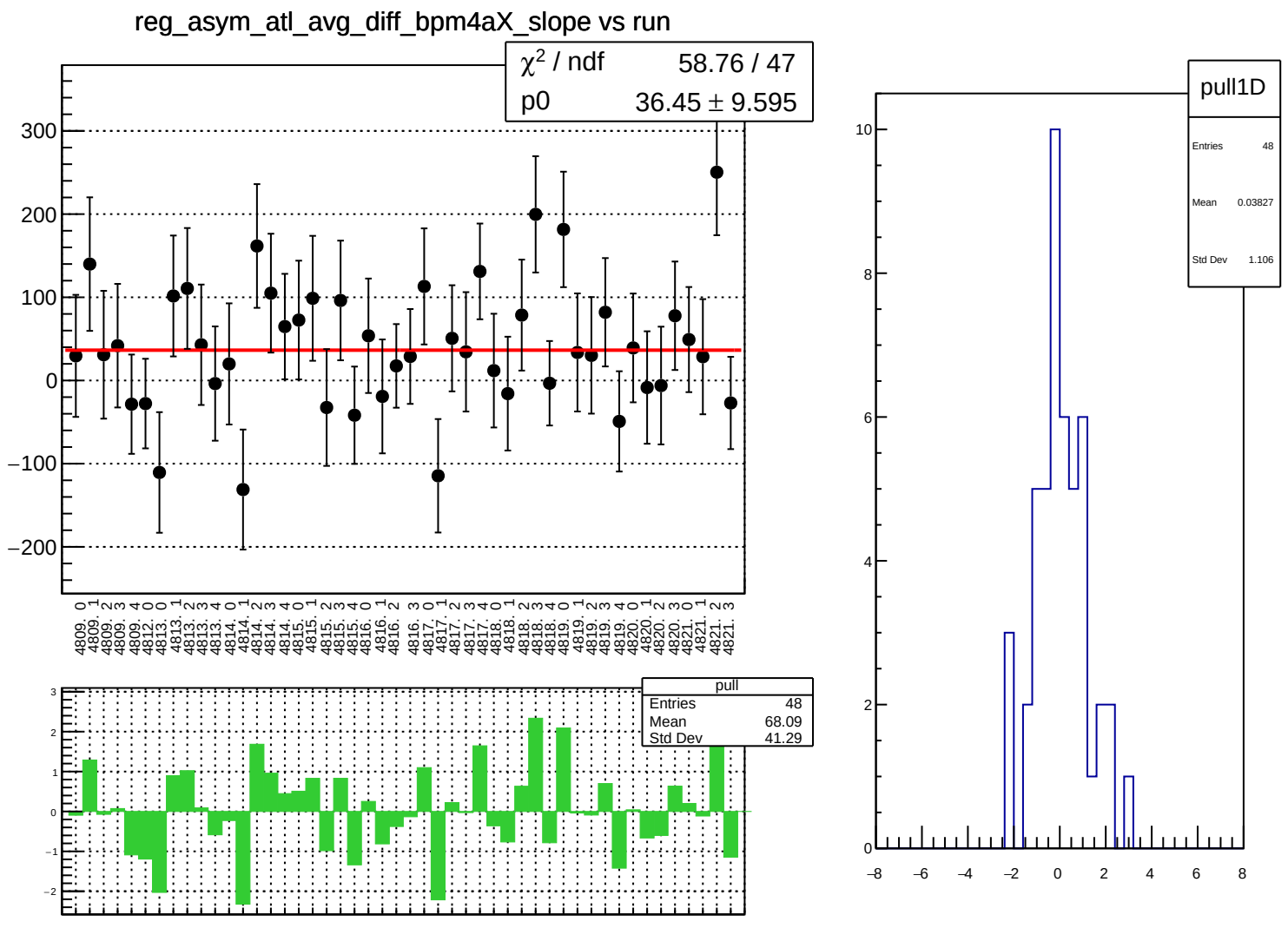

pull1D
Entries 48
Mean −0.006048
Std Dev 0.9819

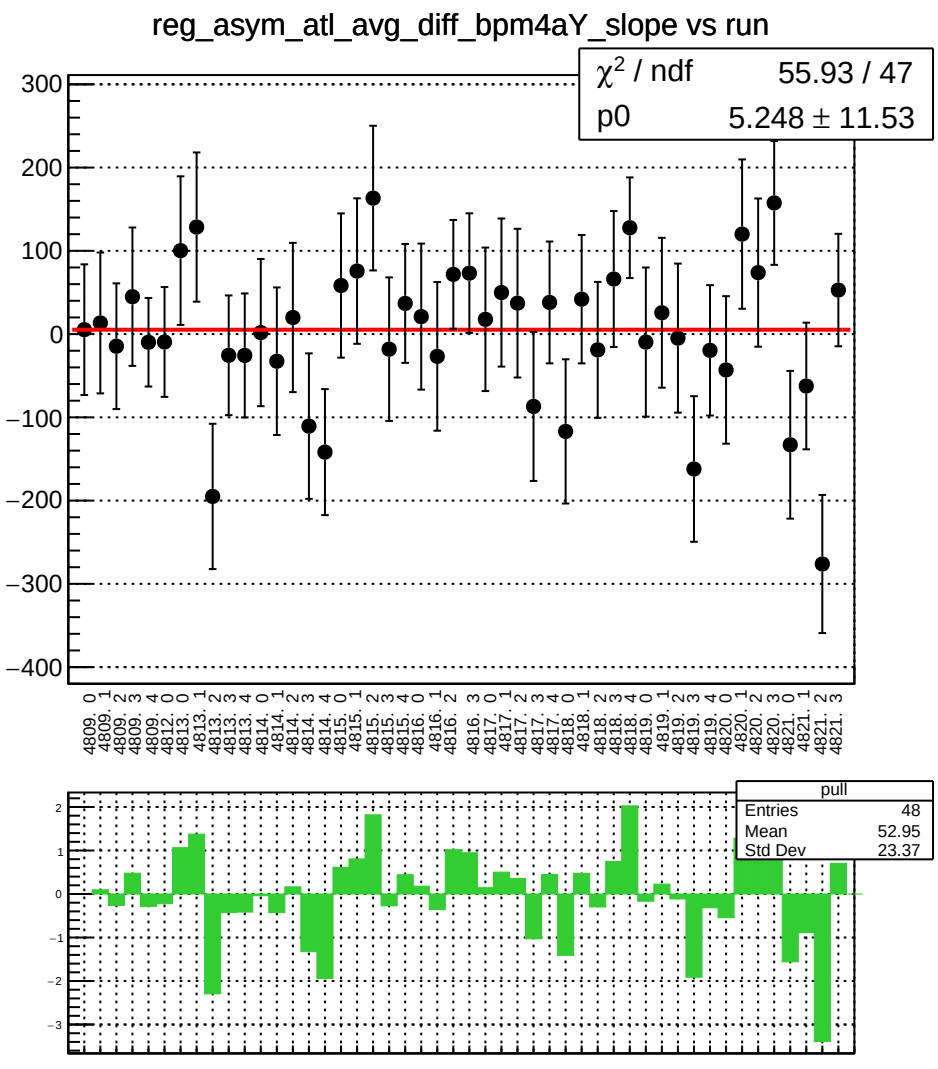

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 45.63 / 47
p0 −20.31 ± 21.25
pull
Entries 48
Mean 111.1
Std Dev 71.74

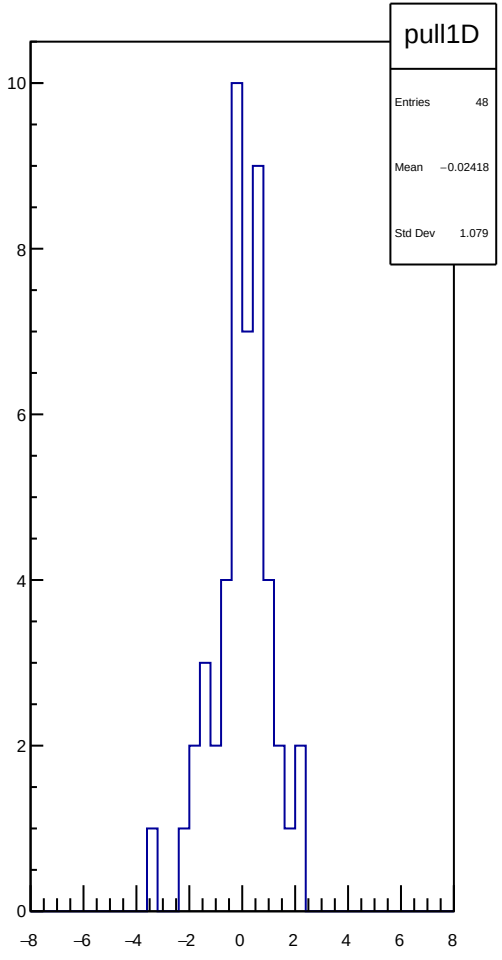

pull1D
Entries 48
Mean 0.01063
Std Dev 0.975

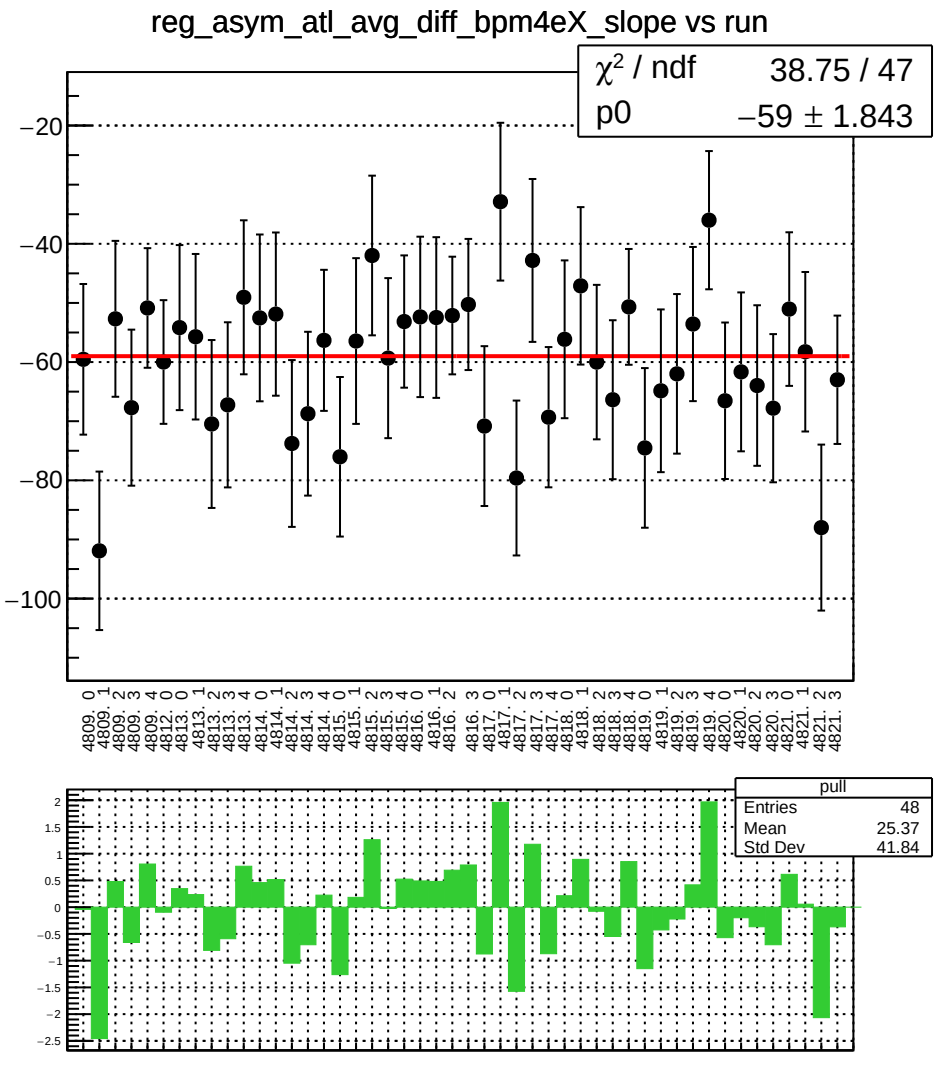

reg_asym_atl2_diff_bpm11X_slope vs run
χ² / ndf 37.46 / 47
p0 −28.83 ± 3.697
pull
Entries 48
Mean −79.26
Std Dev 114.7

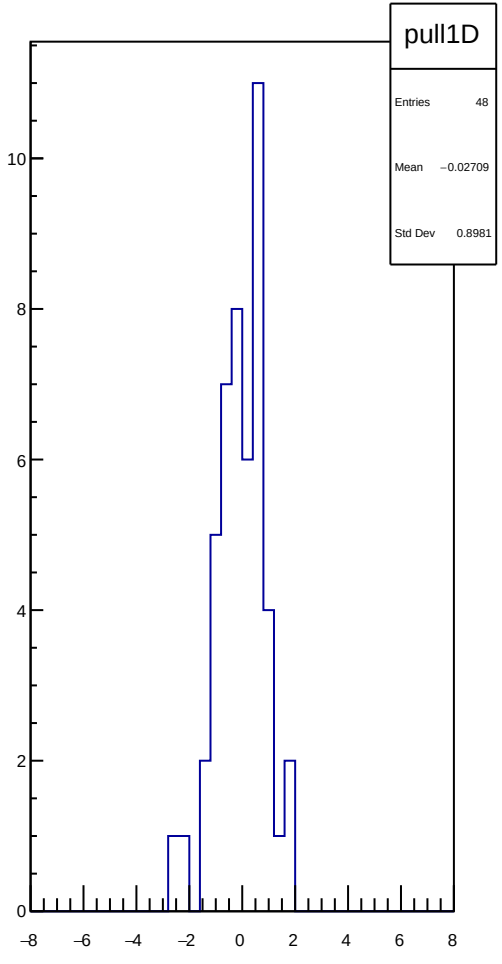

pull1D
Entries 48
Mean 0.006648
Std Dev 0.8834

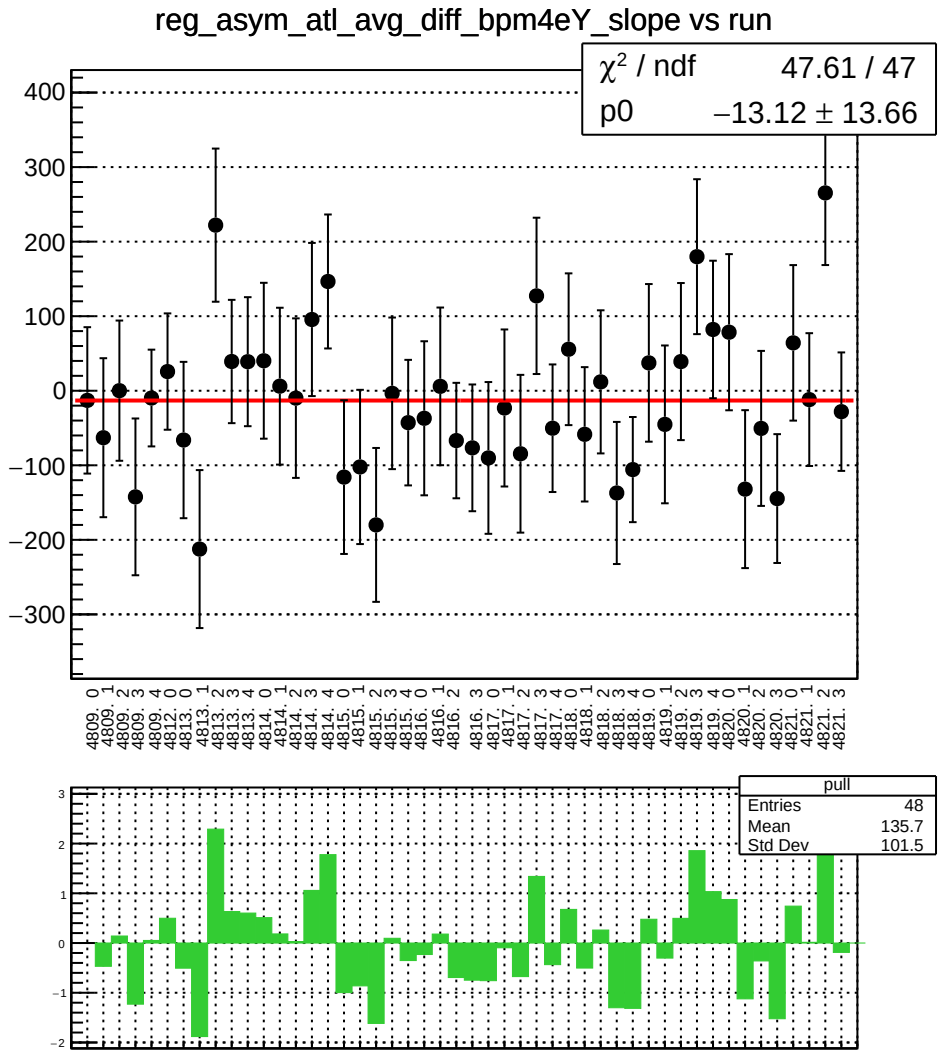

reg_asym_atl_avg_diff_bpm4aX_slope vs run
χ² / ndf 58.76 / 47
p0 36.45 ± 9.595
300
200
100
0
−100
−200
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 68.09
Std Dev 41.29
3
2
1
0
−1
−2
pull1D
Entries 48
Mean 0.03827
Std Dev 1.106
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

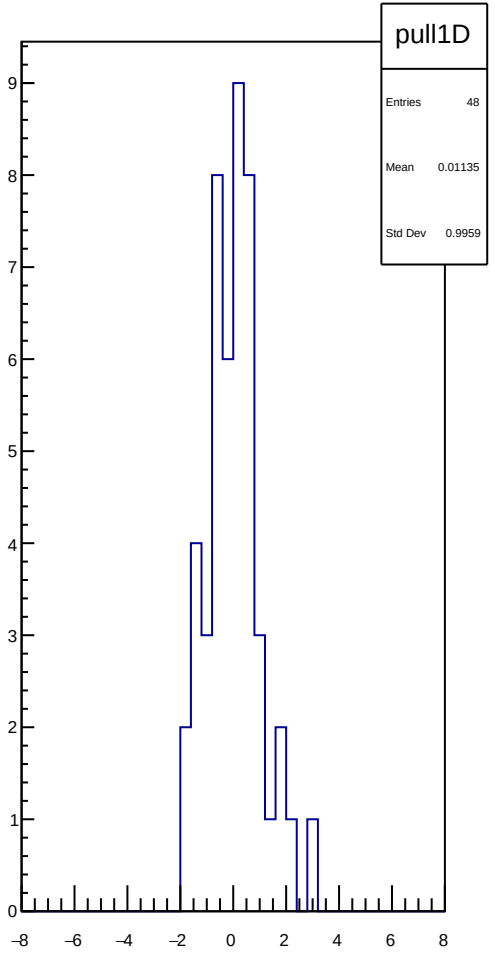

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 55.93 / 47
p0 5.248 ± 11.53
pull
Entries 48
Mean 52.95
Std Dev 23.37

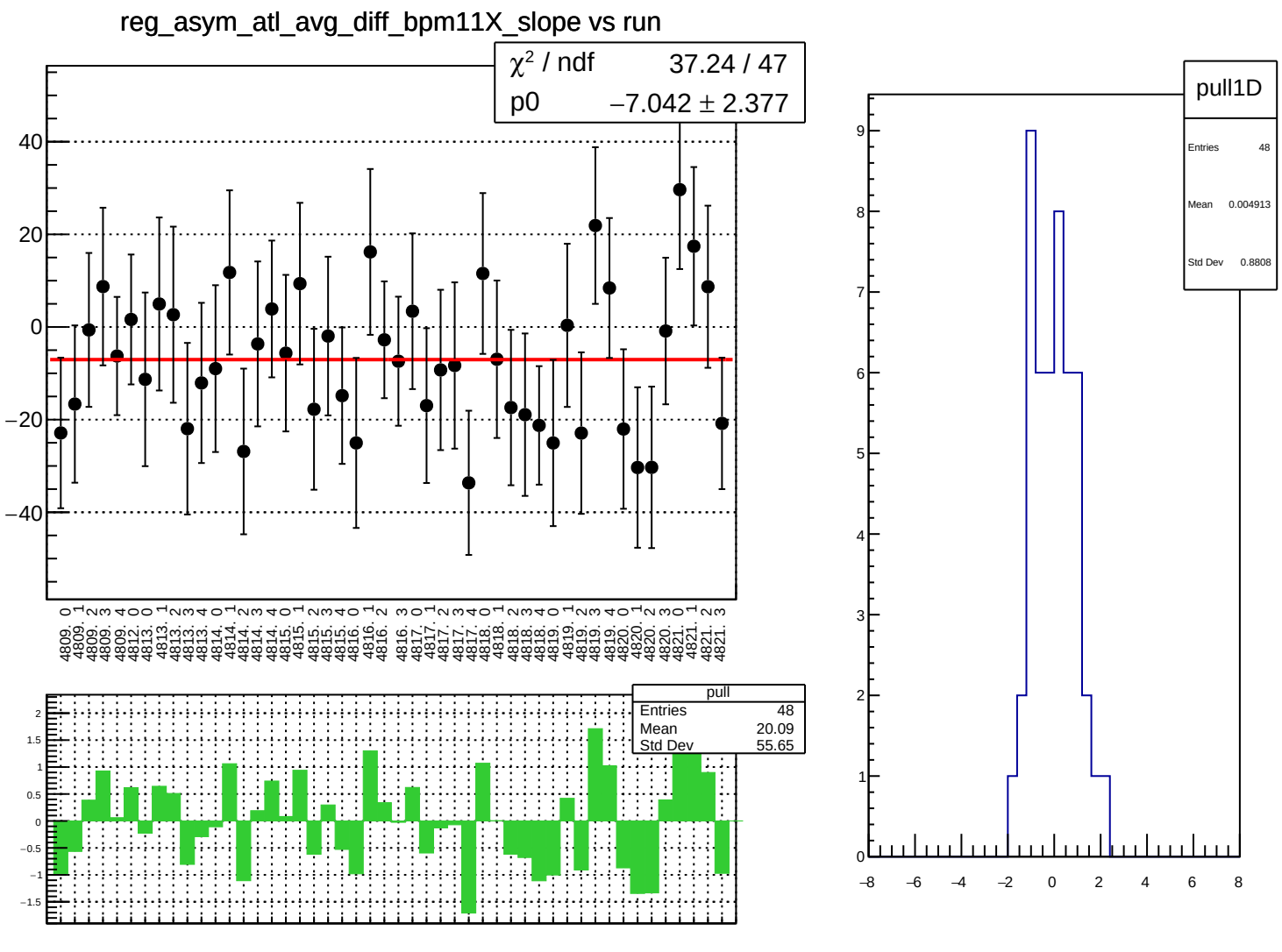

pull1D
Entries 48
Mean −0.02418
Std Dev 1.079

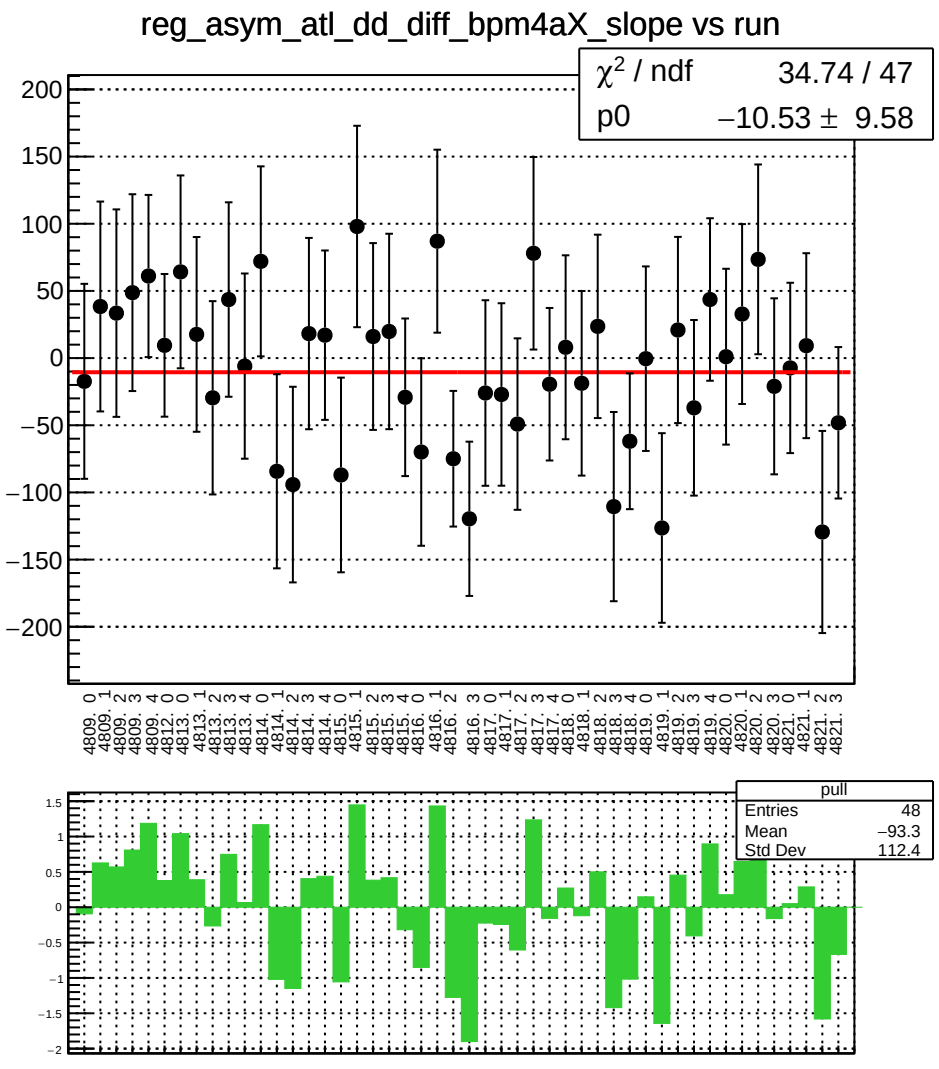

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 38.75 / 47
p0 −59 ± 1.843
pull
Entries 48
Mean 25.37
Std Dev 41.84

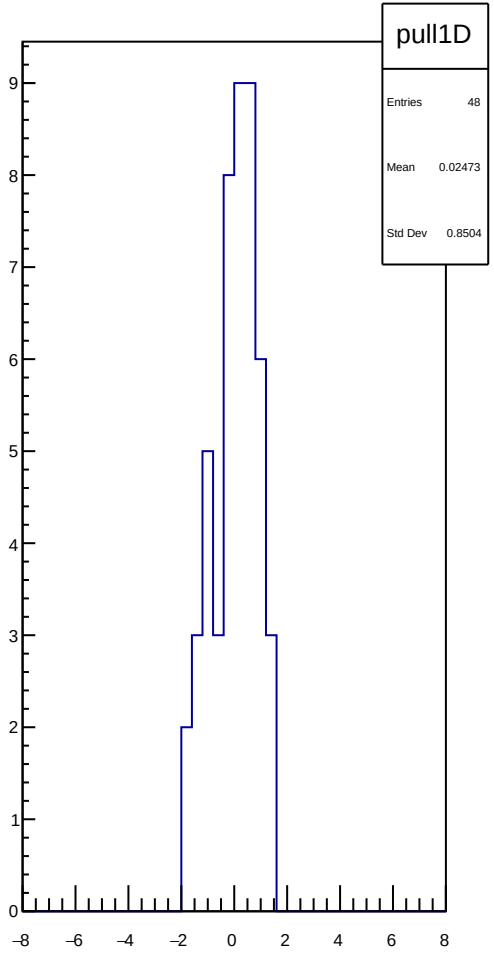

pull1D
Entries 48
Mean −0.02709
Std Dev 0.8981

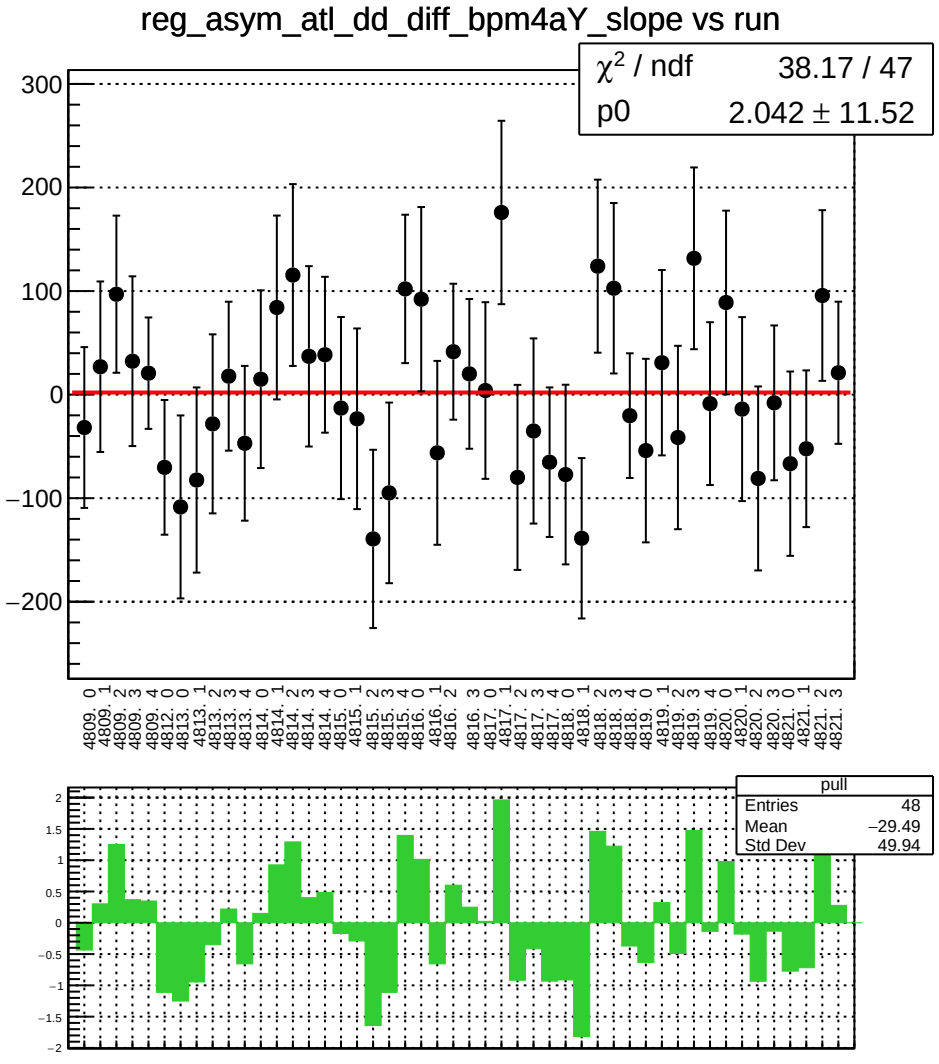

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 47.61 / 47
p0 −13.12 ± 13.66
pull
Entries 48
Mean 135.7
Std Dev 101.5

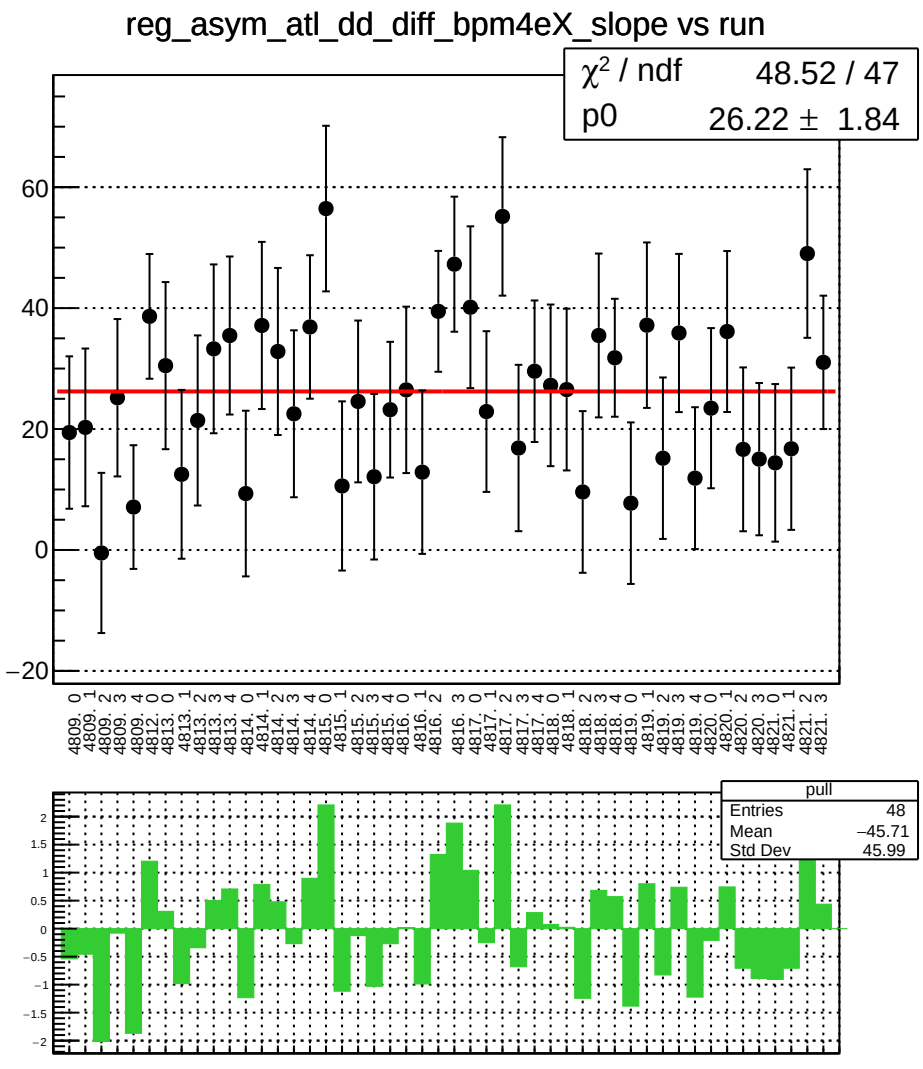

pull1D
Entries 48
Mean 0.01135
Std Dev 0.9959

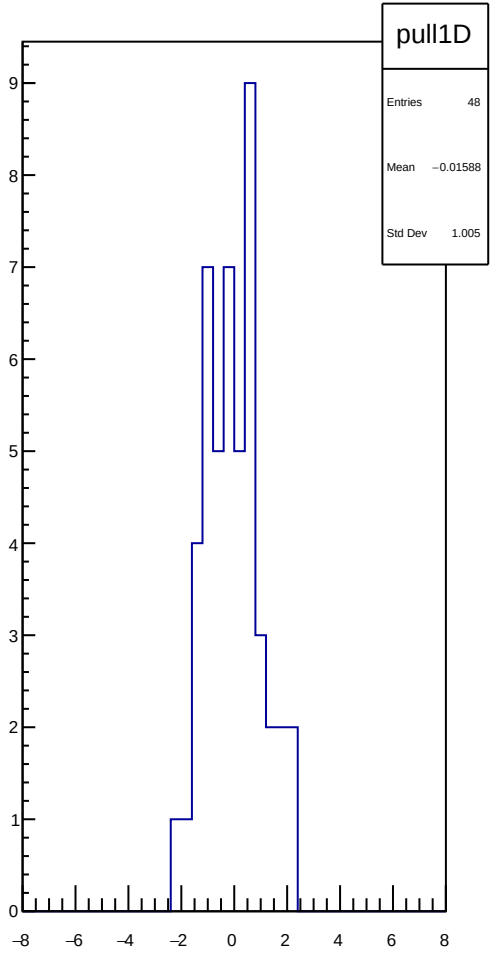

reg_asym_atl_avg_diff_bpm11X_slope vs run
χ² / ndf 37.24 / 47
p0 −7.042 ± 2.377
40
20
0
−20
−40
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 20.09
Std Dev 55.65
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 48
Mean 0.004913
Std Dev 0.8808
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

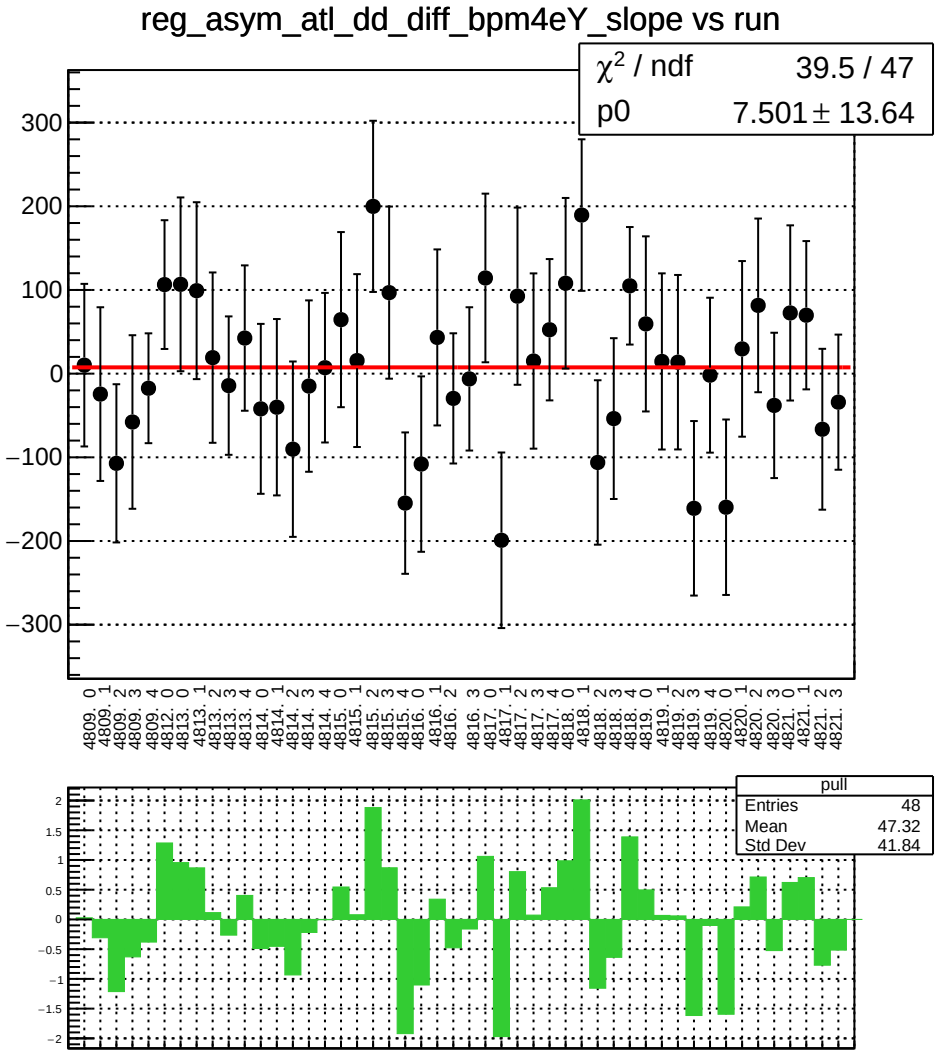

reg_asym_atl_dd_diff_bpm4aX_slope vs run
χ² / ndf 34.74 / 47
p0 −10.53 ± 9.58
pull
Entries 48
Mean −93.3
Std Dev 112.4

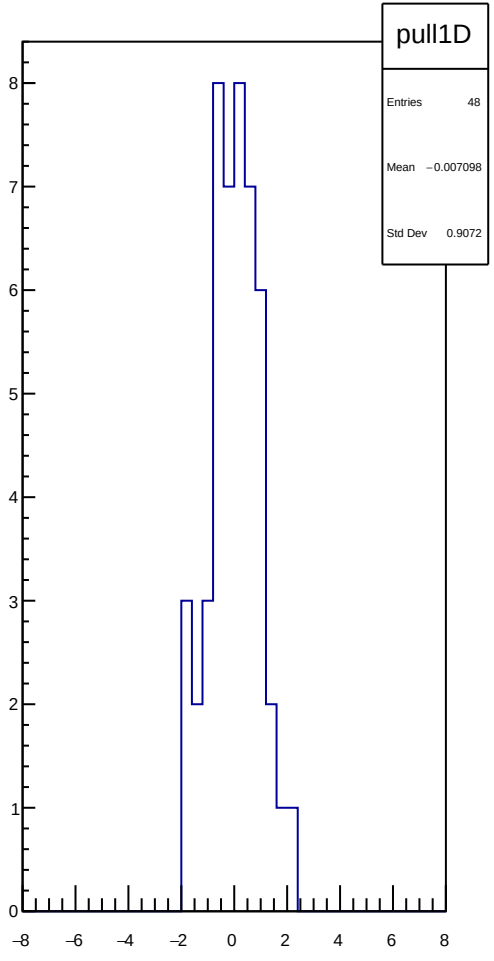

pull1D
Entries 48
Mean 0.02473
Std Dev 0.8504

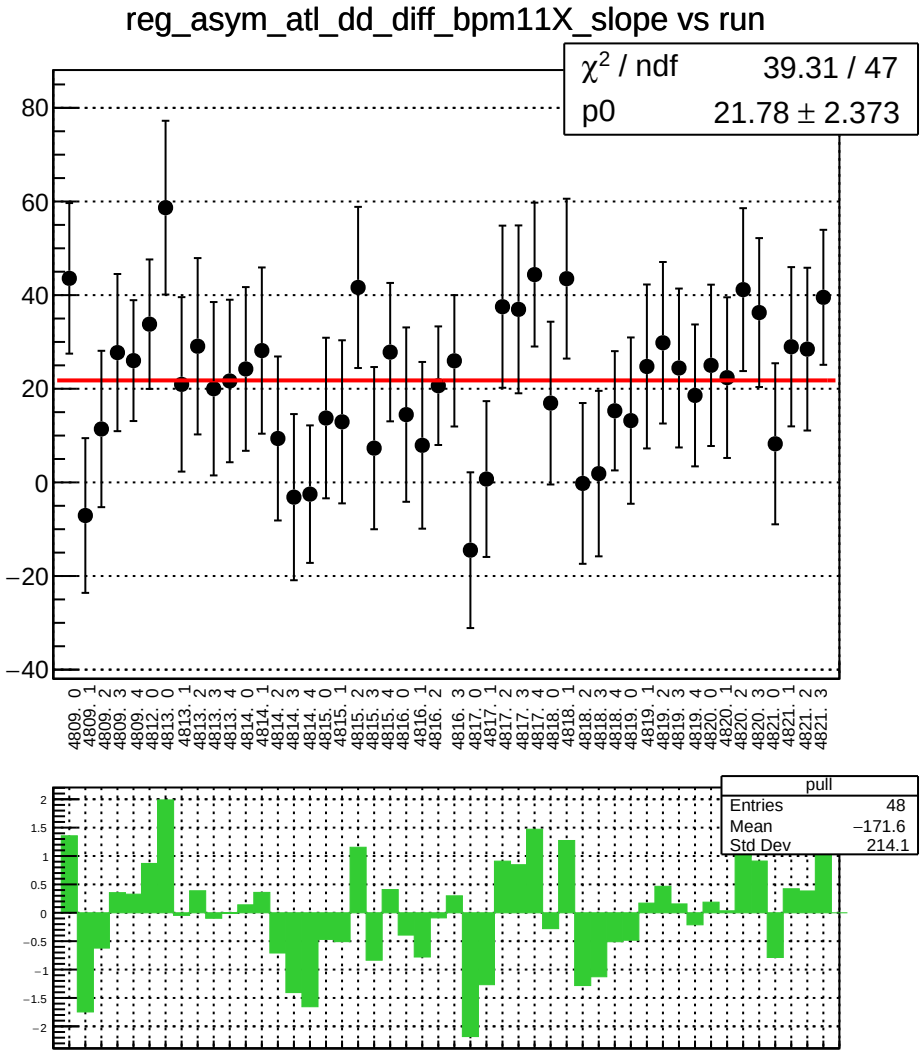

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 38.17 / 47
p0 2.042 ± 11.52
pull
Entries 48
Mean −29.49
Std Dev 49.94
pull1D
Entries 48
Mean −0.002574
Std Dev 0.8917

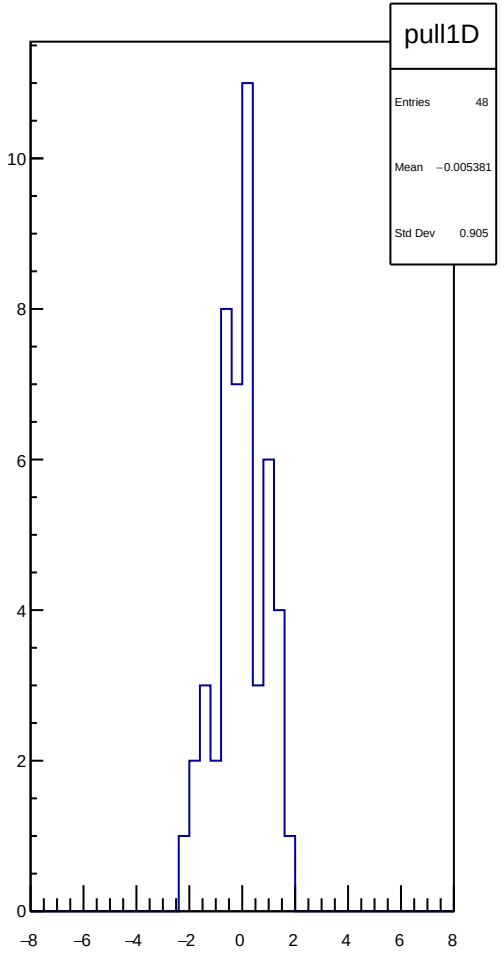

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 48.52 / 47
p0 26.22 ± 1.84
pull
Entries 48
Mean −45.71
Std Dev 45.99

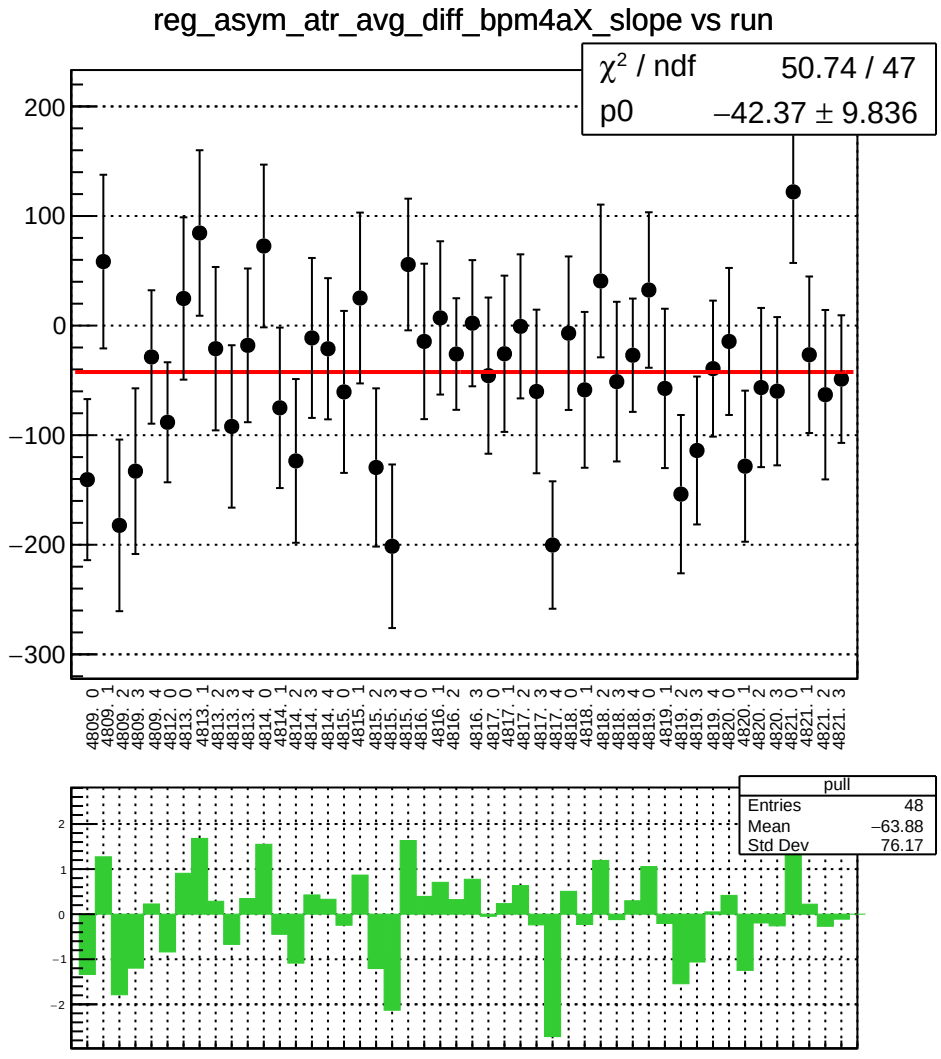

pull1D
Entries 48
Mean −0.01588
Std Dev 1.005

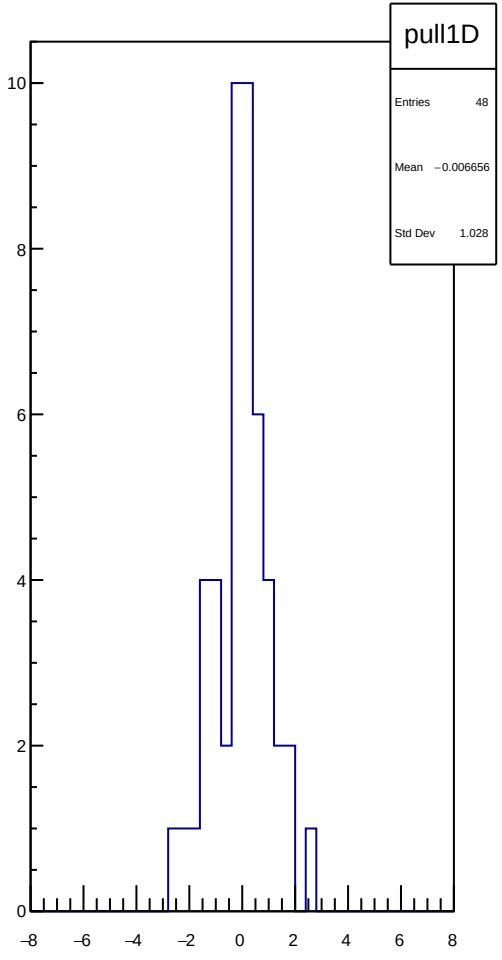

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 39.5 / 47
p0 7.501 ± 13.64
pull
Entries 48
Mean 47.32
Std Dev 41.84

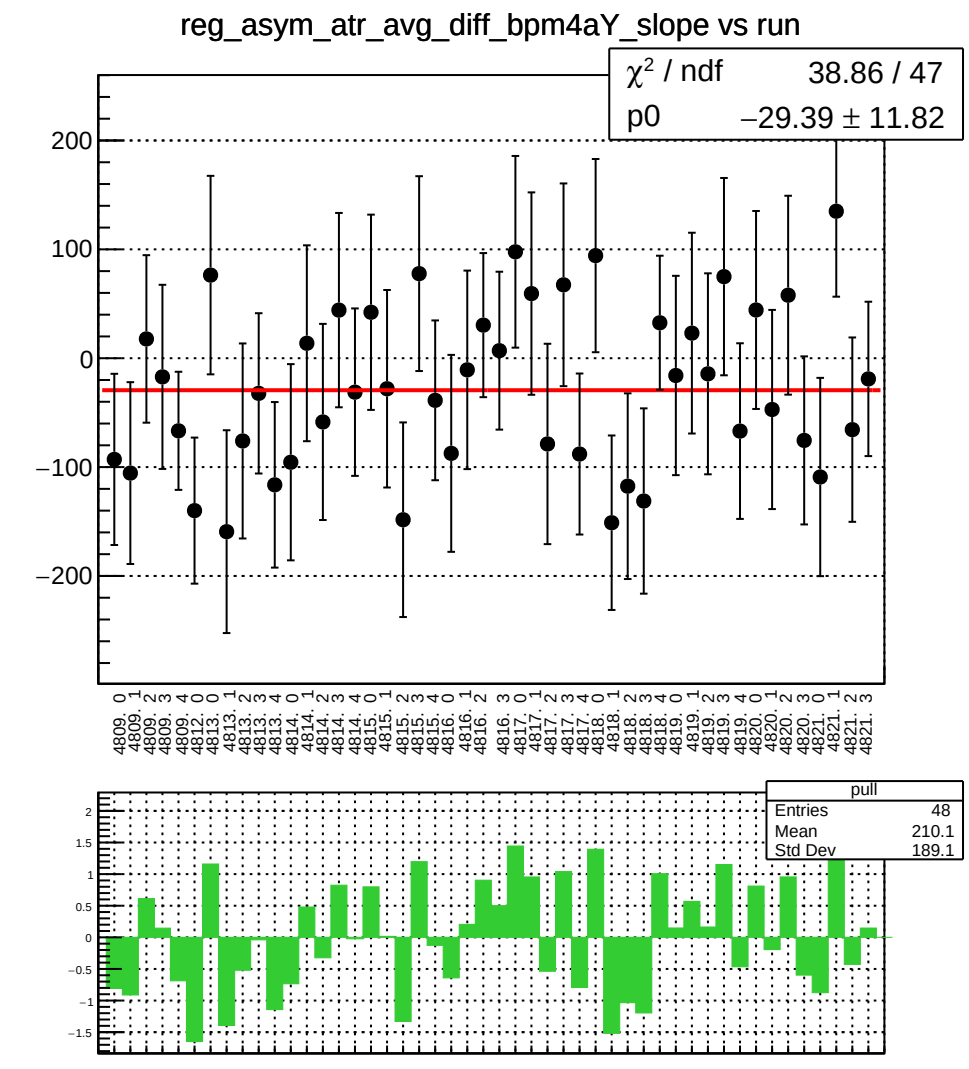

pull1D
Entries 48
Mean −0.007098
Std Dev 0.9072

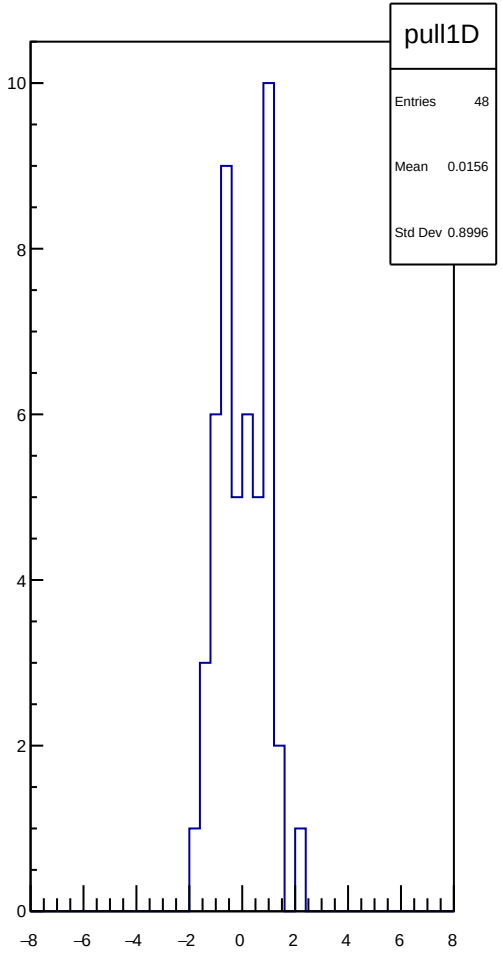

reg_asym_atl_dd_diff_bpm11X_slope vs run
χ² / ndf 39.31 / 47
p0 21.78 ± 2.373
pull
Entries 48
Mean −171.6
Std Dev 214.1

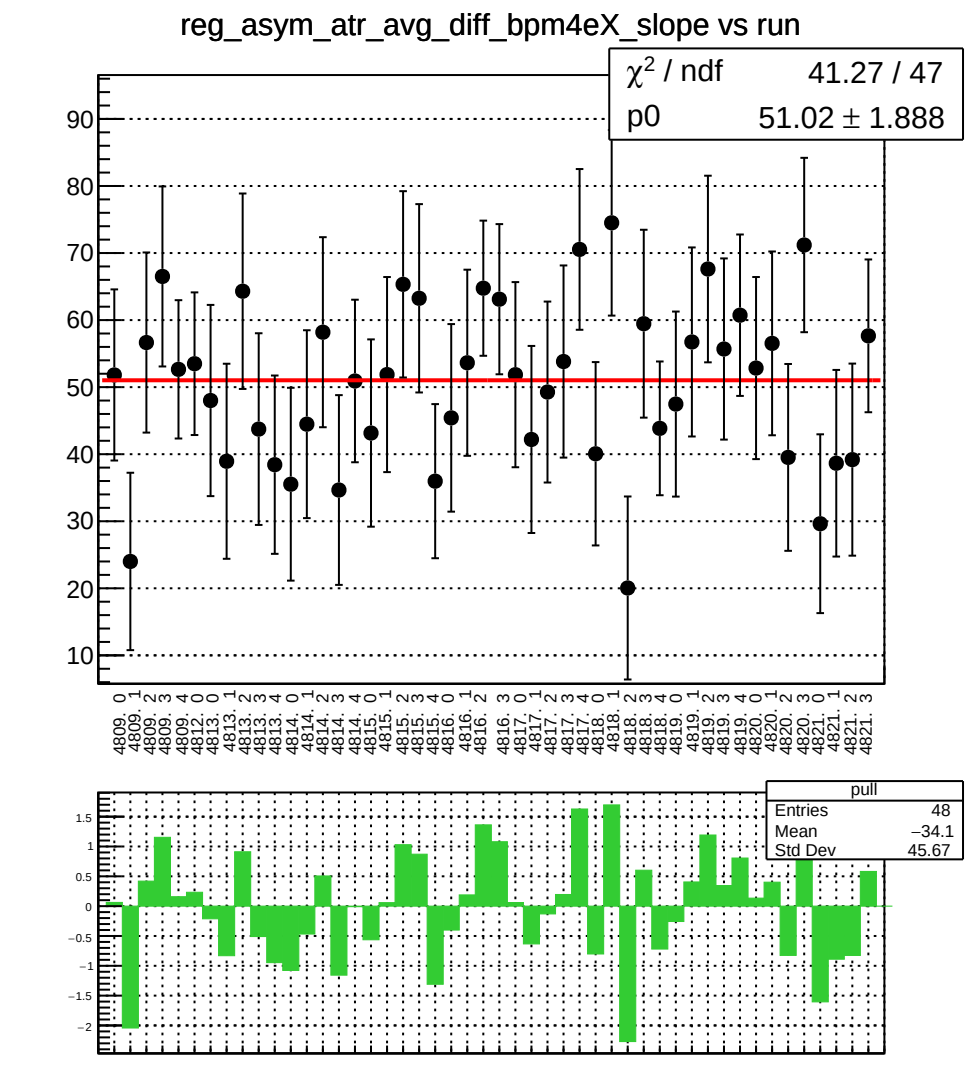

pull1D
Entries 48
Mean −0.005381
Std Dev 0.905

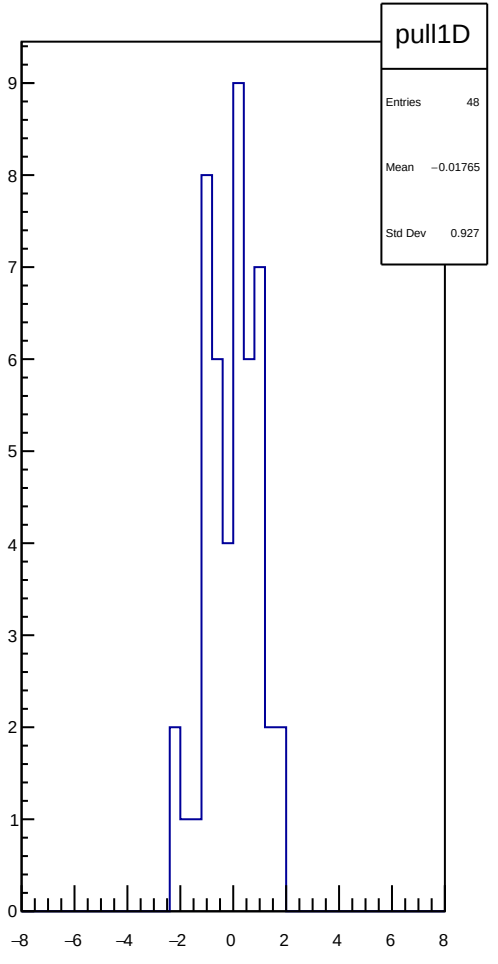

reg_asym_atr_avg_diff_bpm4aX_slope vs run
χ² / ndf 50.74 / 47
p0 −42.37 ± 9.836
pull
Entries 48
Mean −63.88
Std Dev 76.17

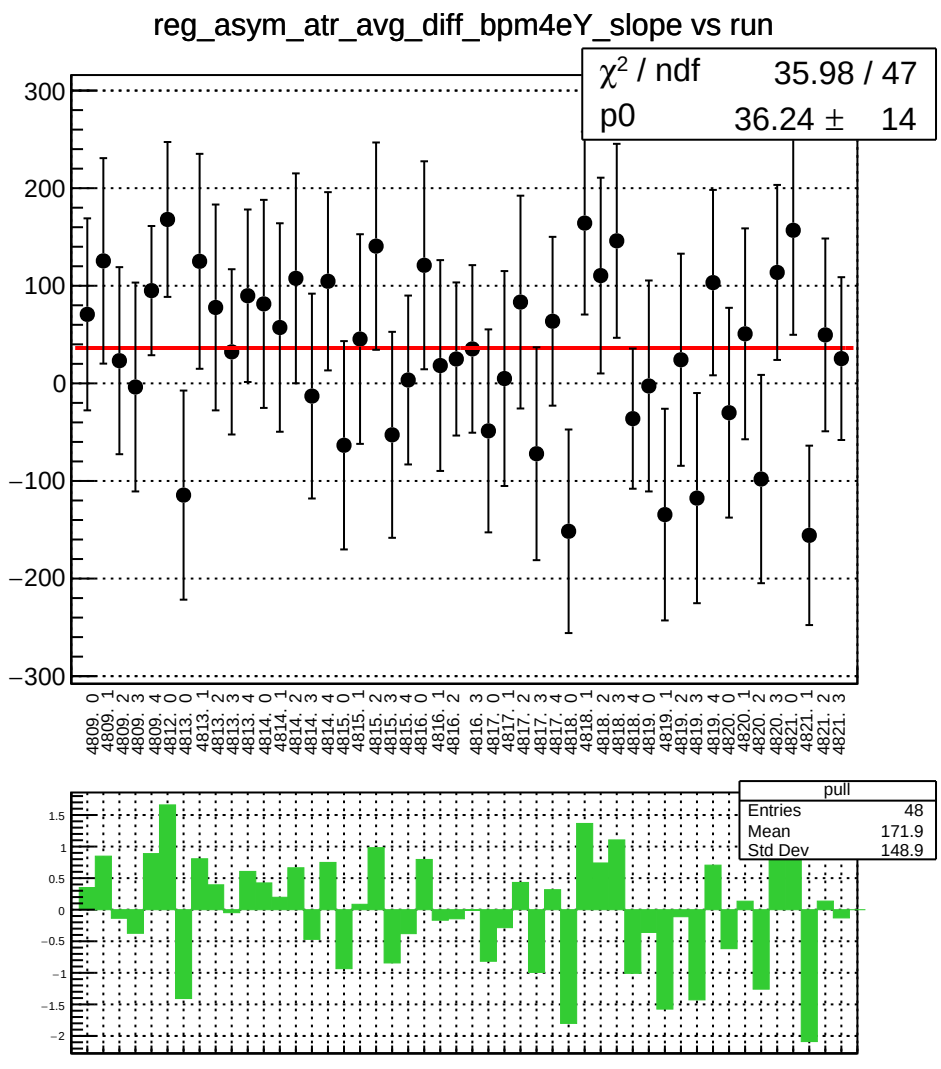

pull1D
Entries 48
Mean −0.006656
Std Dev 1.028

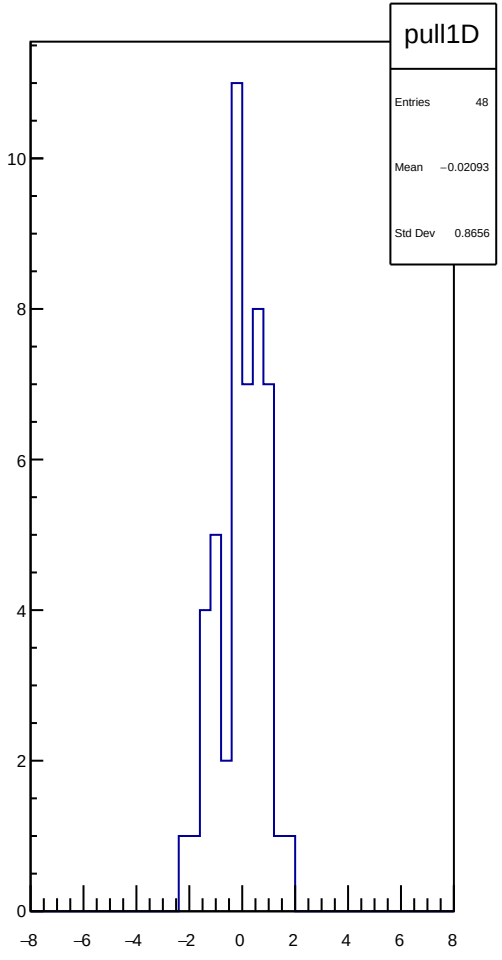

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 38.86 / 47
p0 −29.39 ± 11.82
200
100
0
−100
−200
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 210.1
Std Dev 189.1
2
1.5
1
0.5
0
−0.5
−1
−1.5

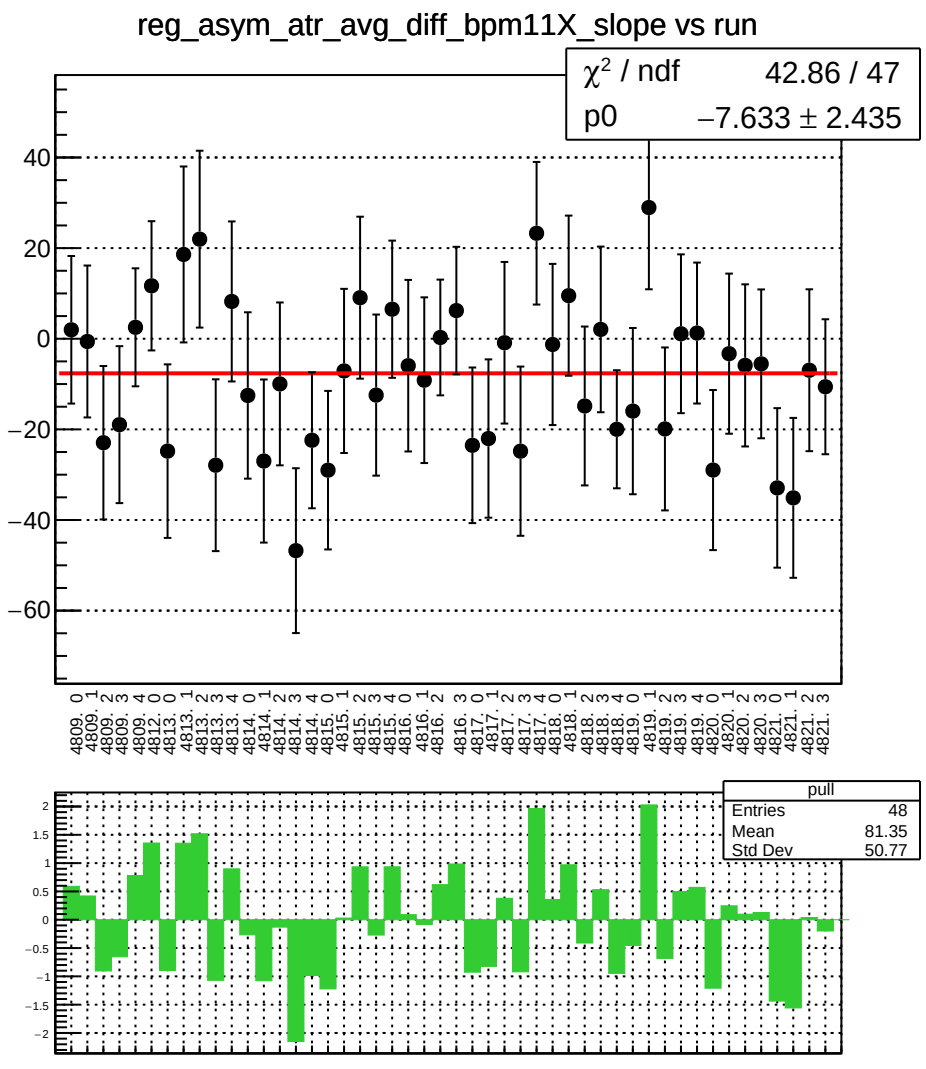

pull1D
Entries 48
Mean 0.0156
Std Dev 0.8996
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

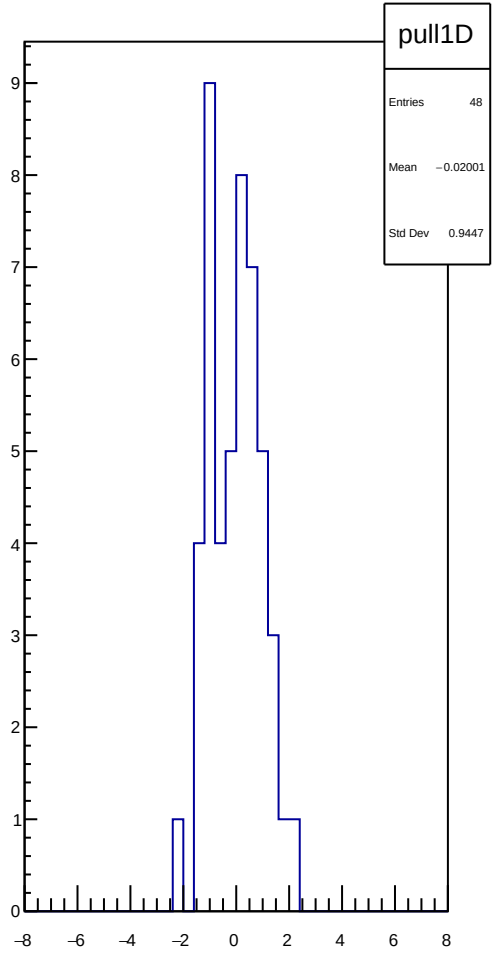

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 41.27 / 47
p0 51.02 ± 1.888
pull
Entries 48
Mean −34.1
Std Dev 45.67

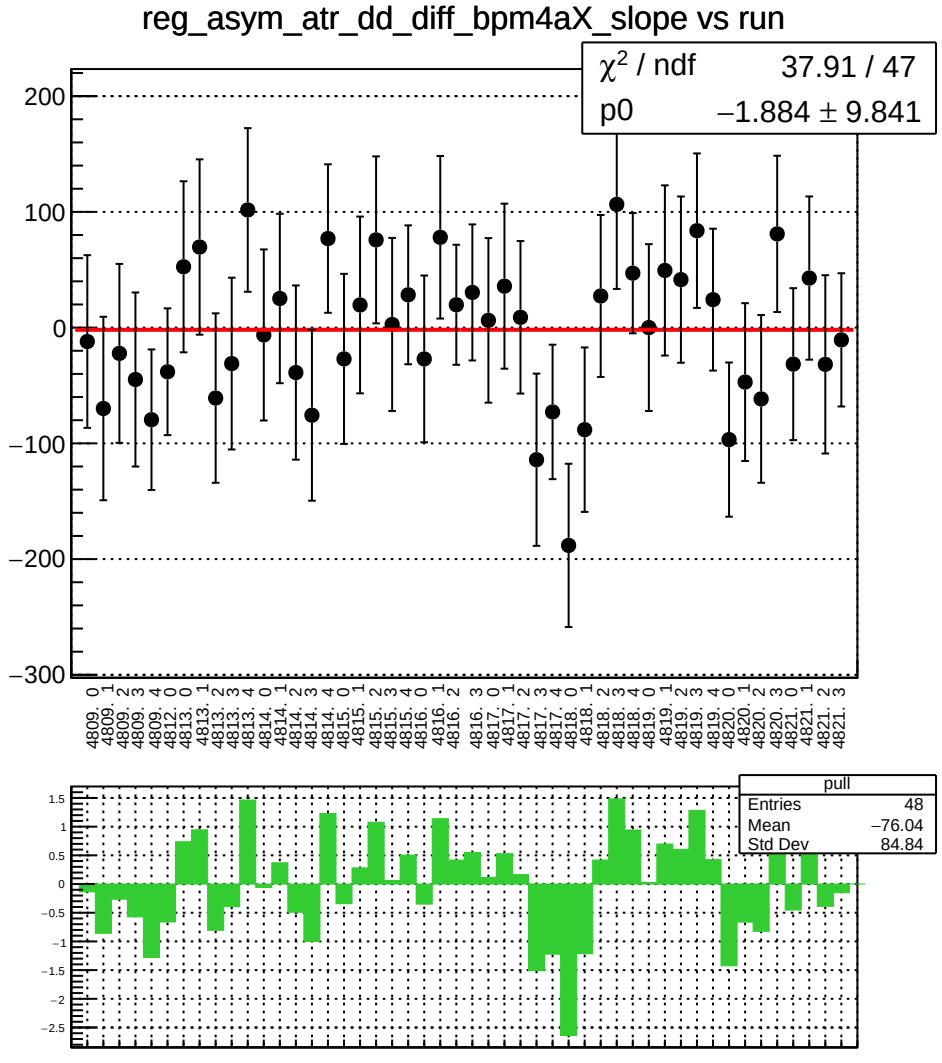

pull1D
Entries 48
Mean −0.01765
Std Dev 0.927

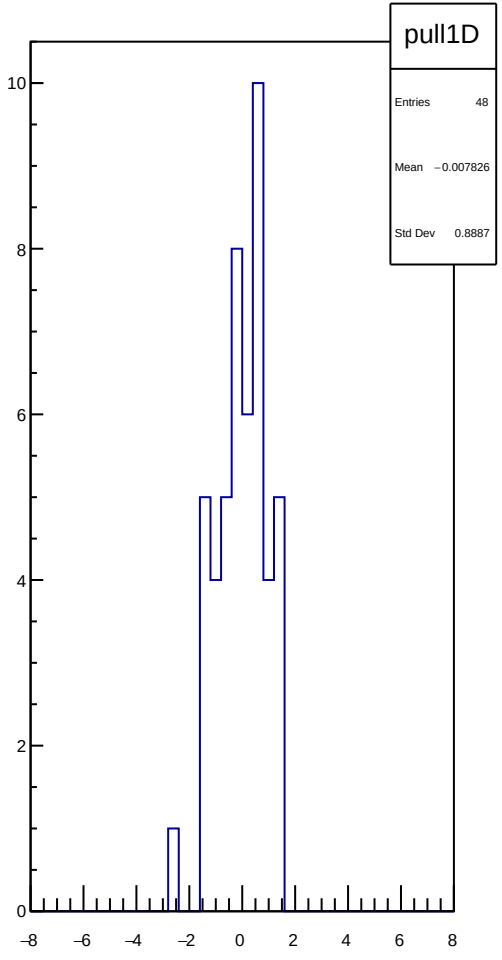

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 35.98 / 47
p0 36.24 ± 14
pull
Entries 48
Mean 171.9
Std Dev 148.9

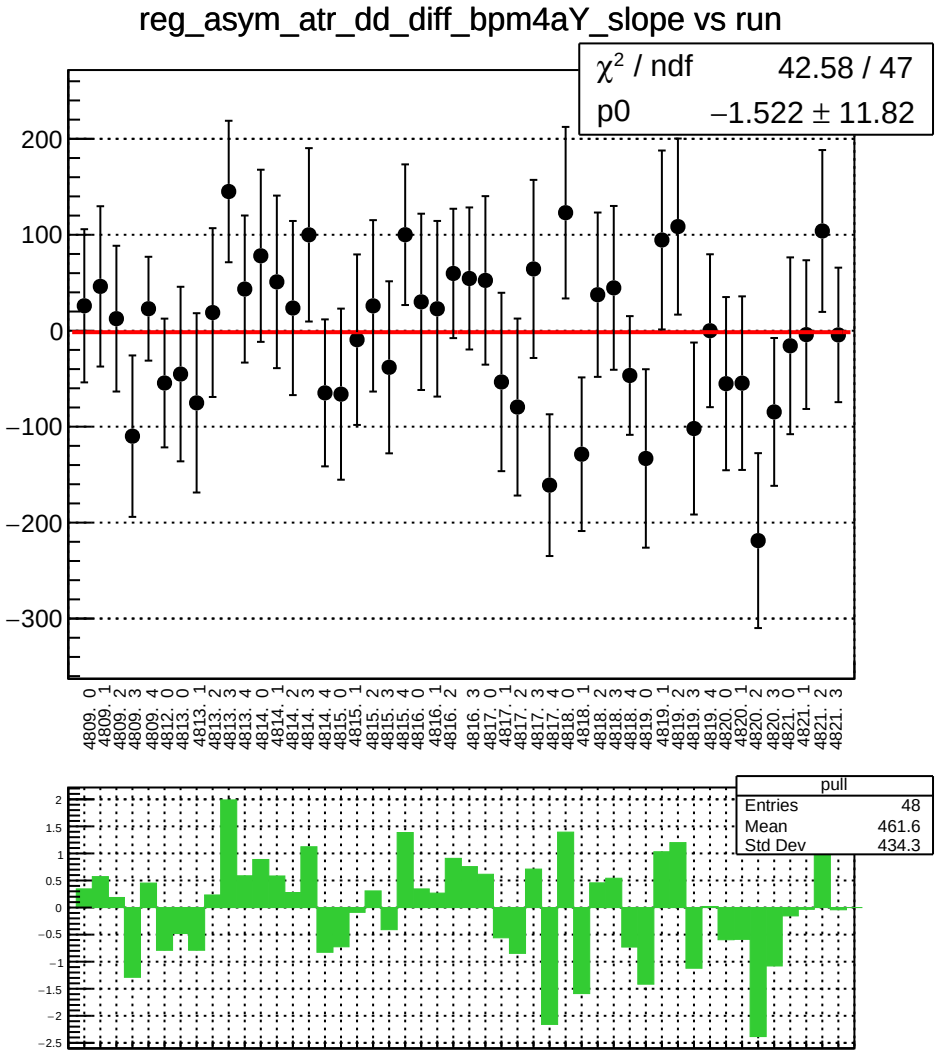

pull1D
Entries 48
Mean −0.02093
Std Dev 0.8656

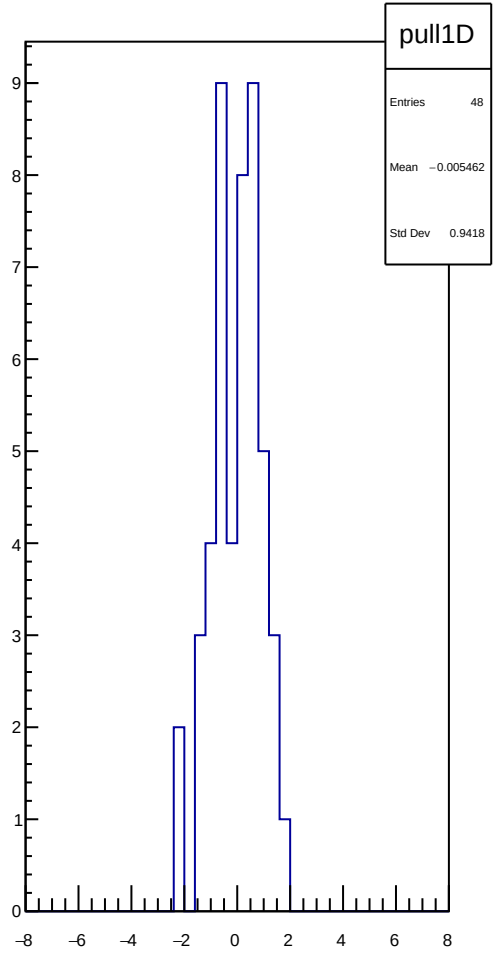

reg_asym_atr_avg_diff_bpm11X_slope vs run
χ² / ndf 42.86 / 47
p0 −7.633 ± 2.435
pull
Entries 48
Mean 81.35
Std Dev 50.77

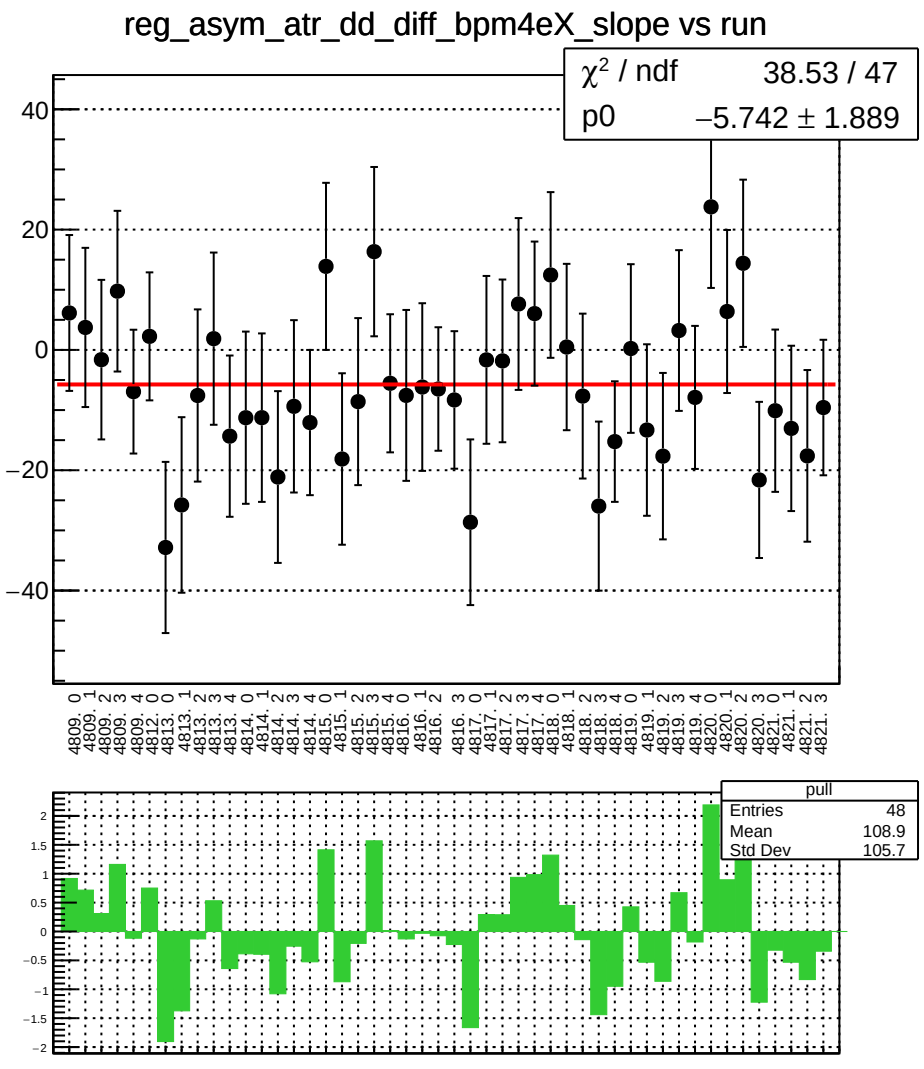

pull1D
Entries 48
Mean −0.02001
Std Dev 0.9447

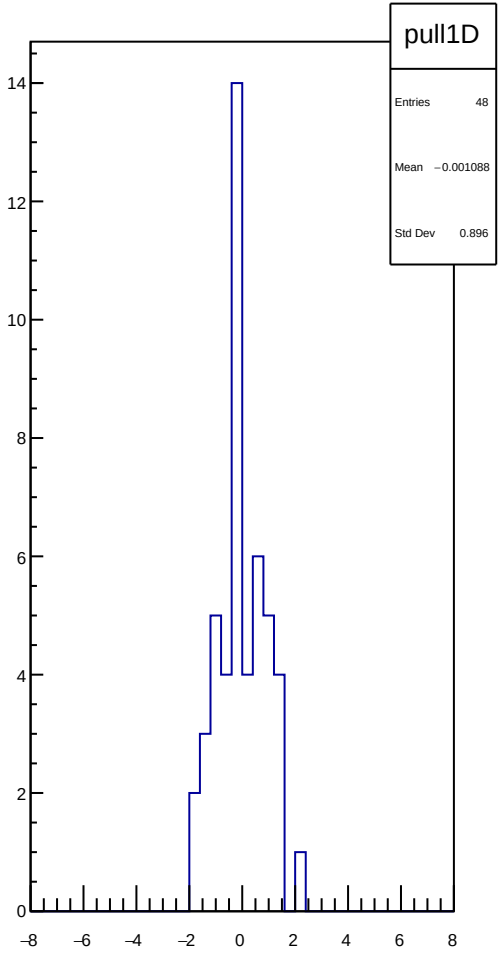

reg_asym_atr_dd_diff_bpm4aX_slope vs run
χ² / ndf 37.91 / 47
p0 −1.884 ± 9.841
200
100
0
−100
−200
−300
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean −76.04
Std Dev 84.84
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

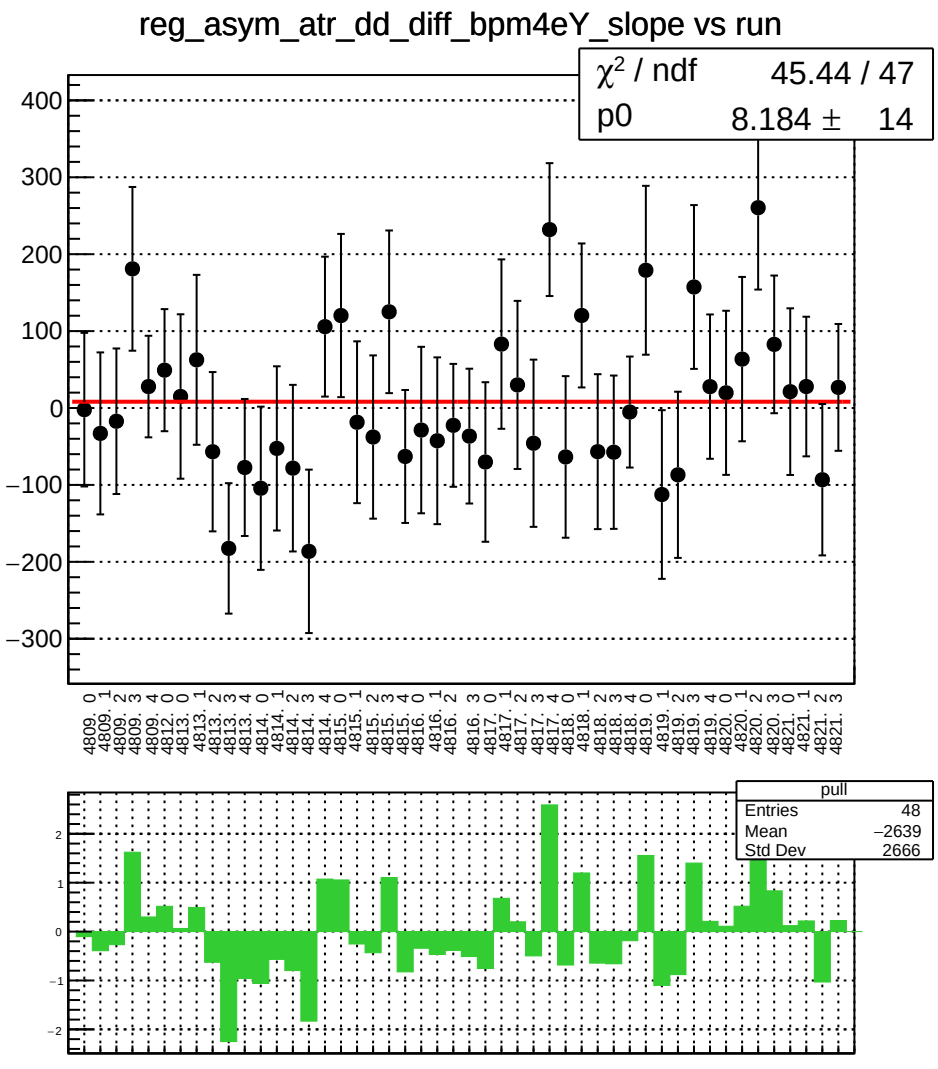

pull1D
Entries 48
Mean −0.007826
Std Dev 0.8887
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

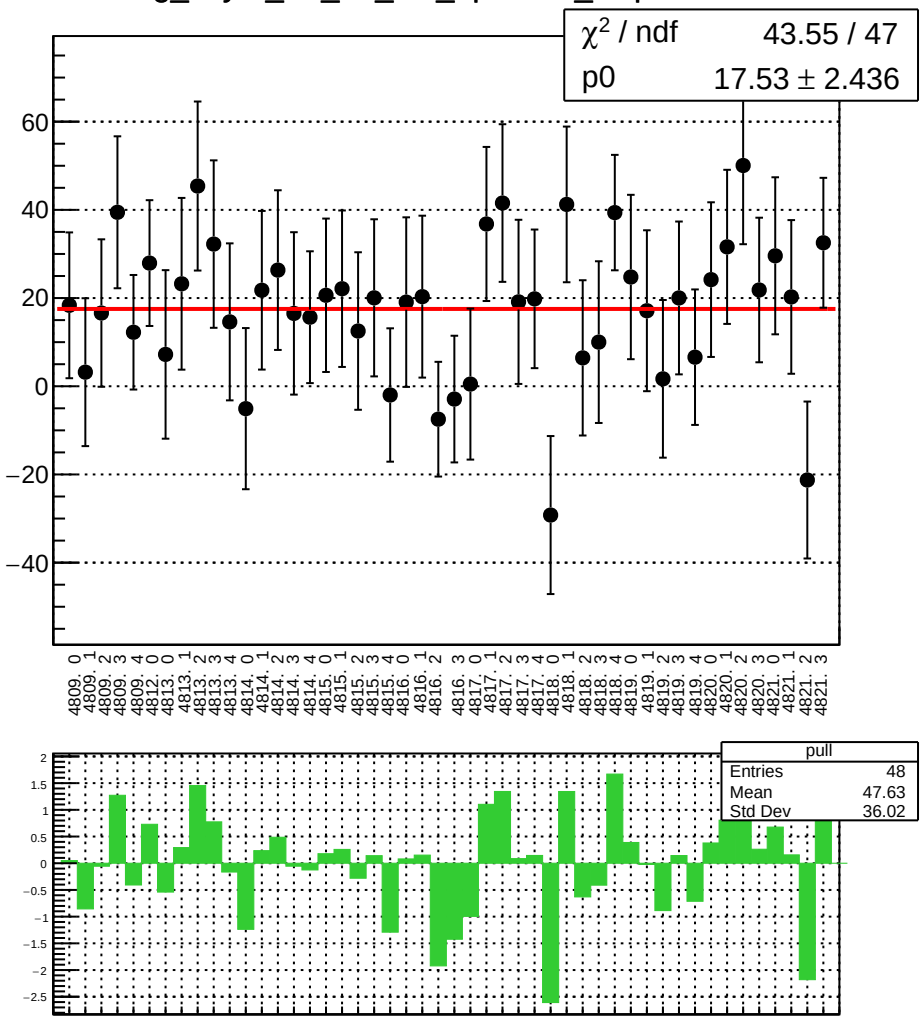

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 42.58 / 47
p0 −1.522 ± 11.82
pull
Entries 48
Mean 461.6
Std Dev 434.3

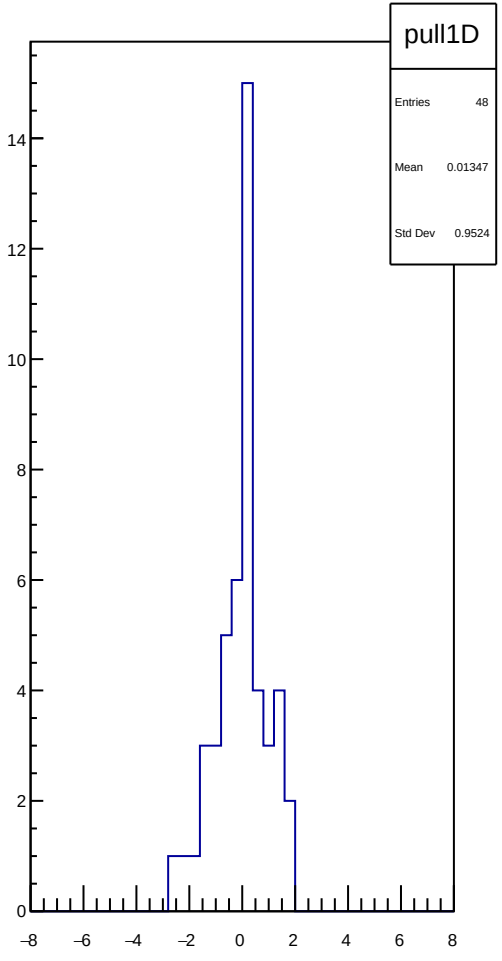

pull1D
Entries 48
Mean −0.005462
Std Dev 0.9418

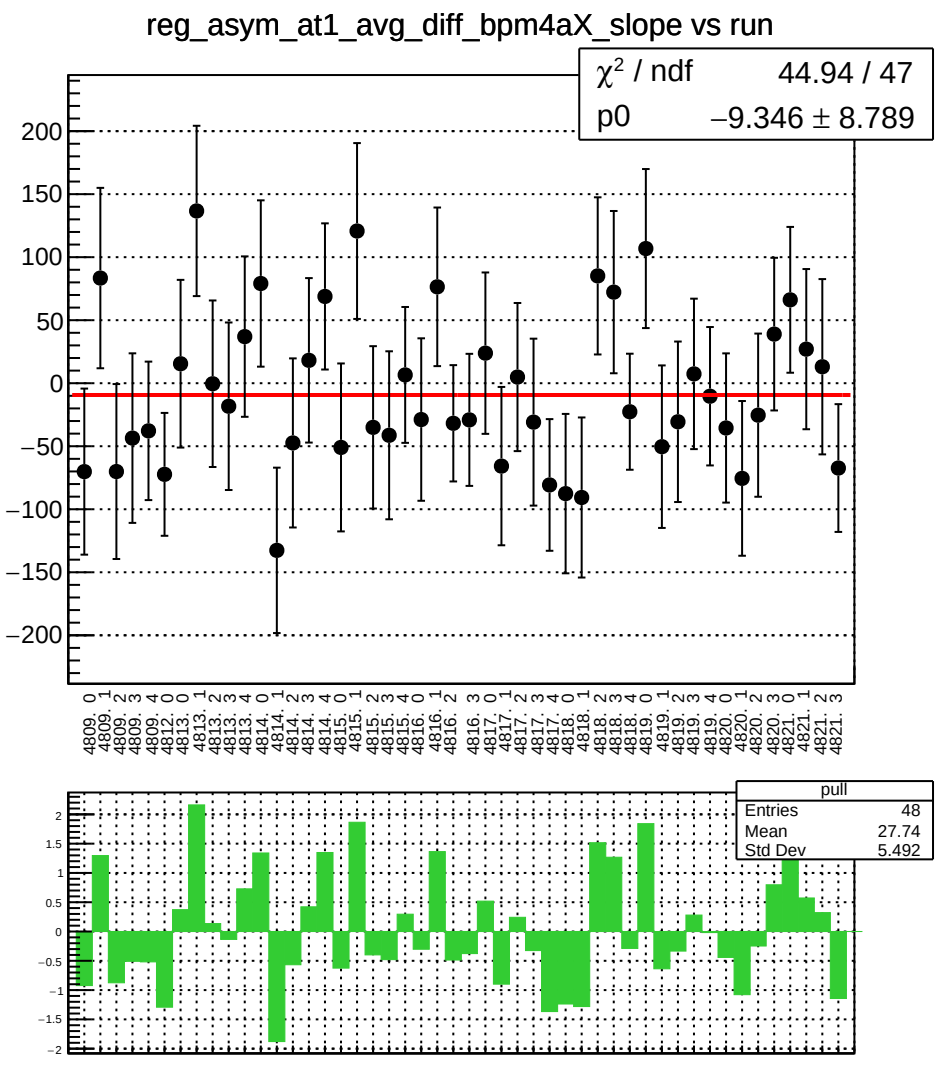

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 38.53 / 47
p0 −5.742 ± 1.889
pull
Entries 48
Mean 108.9
Std Dev 105.7

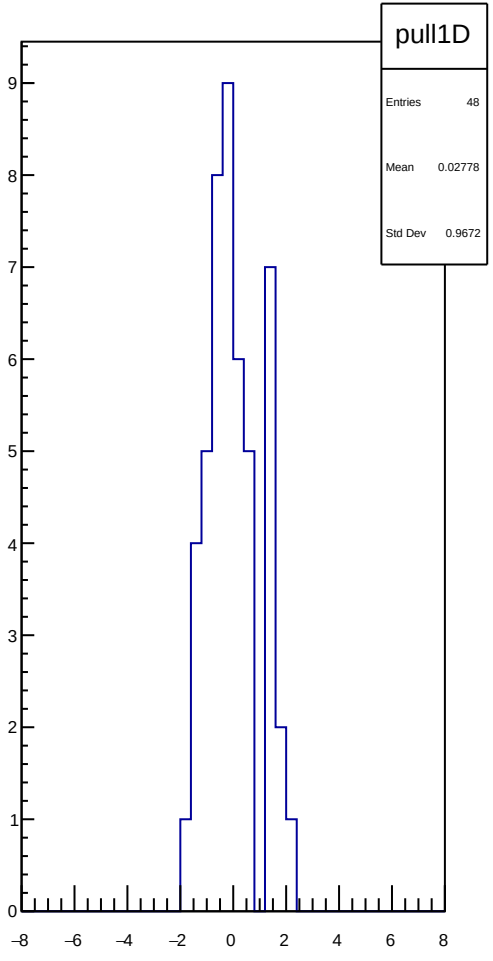

pull1D
Entries 48
Mean −0.001088
Std Dev 0.896

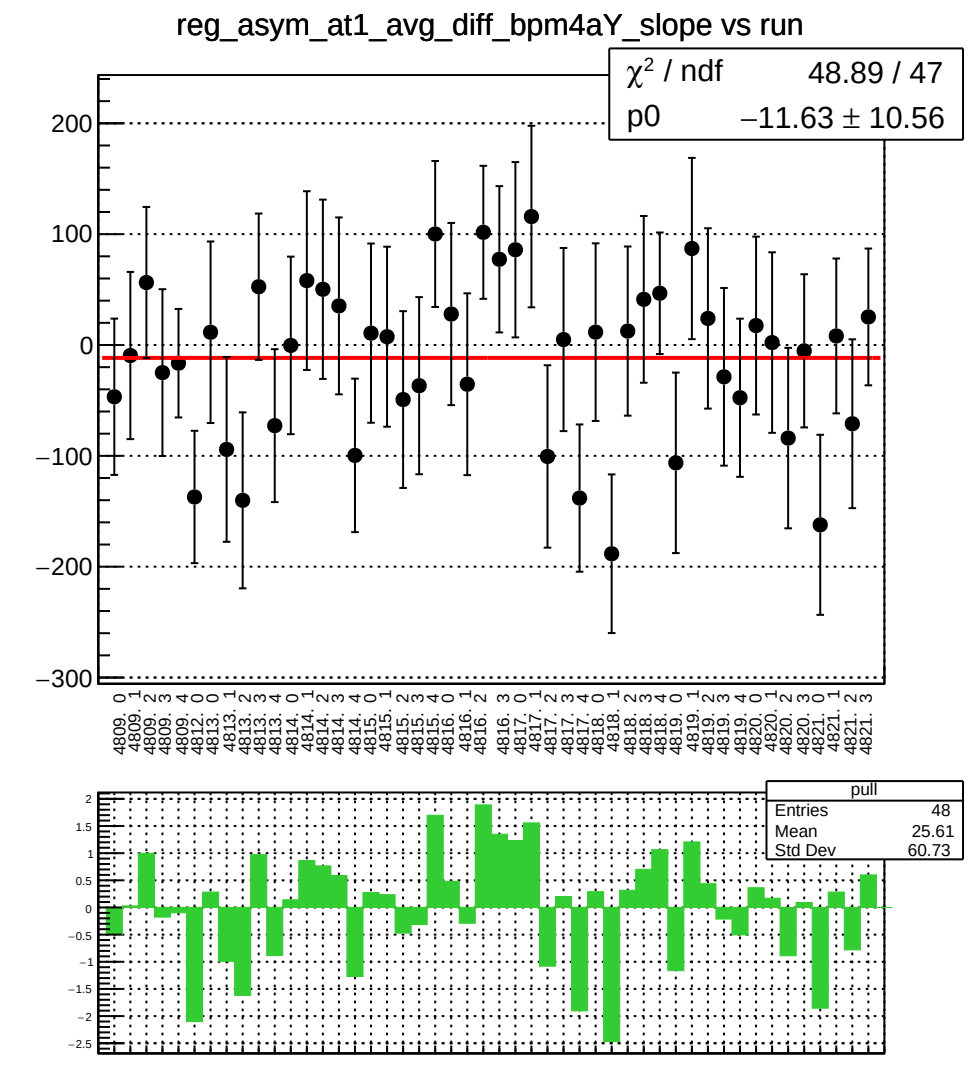

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 45.44 / 47
p0 8.184 ± 14
400
300
200
100
0
−100
−200
−300
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean −2639
Std Dev 2666
2
1
0
−1
−2
pull1D
Entries 48
Mean −0.0009898
Std Dev 0.973
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

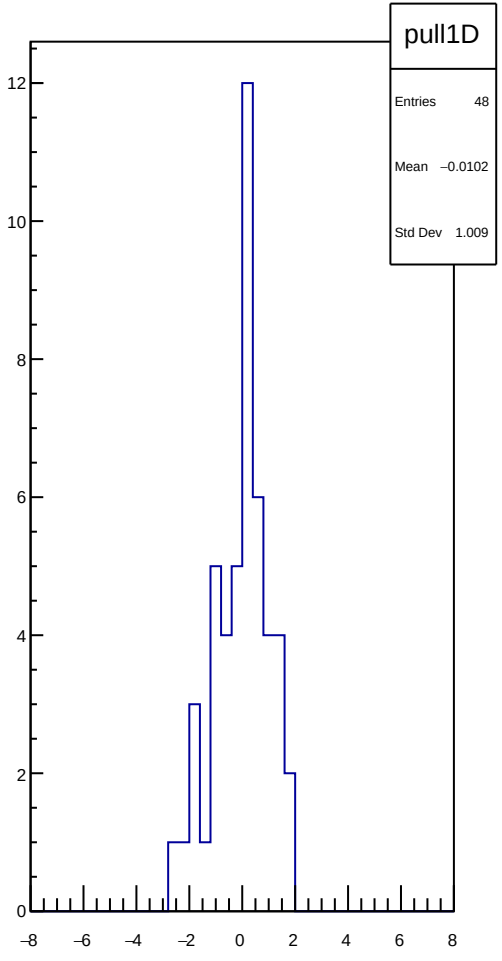

reg_asym_atr_dd_diff_bpm11X_slope vs run
χ^2 / ndf 43.55 / 47
p0 17.53 ± 2.436
pull
Entries 48
Mean 47.63
Std Dev 36.02

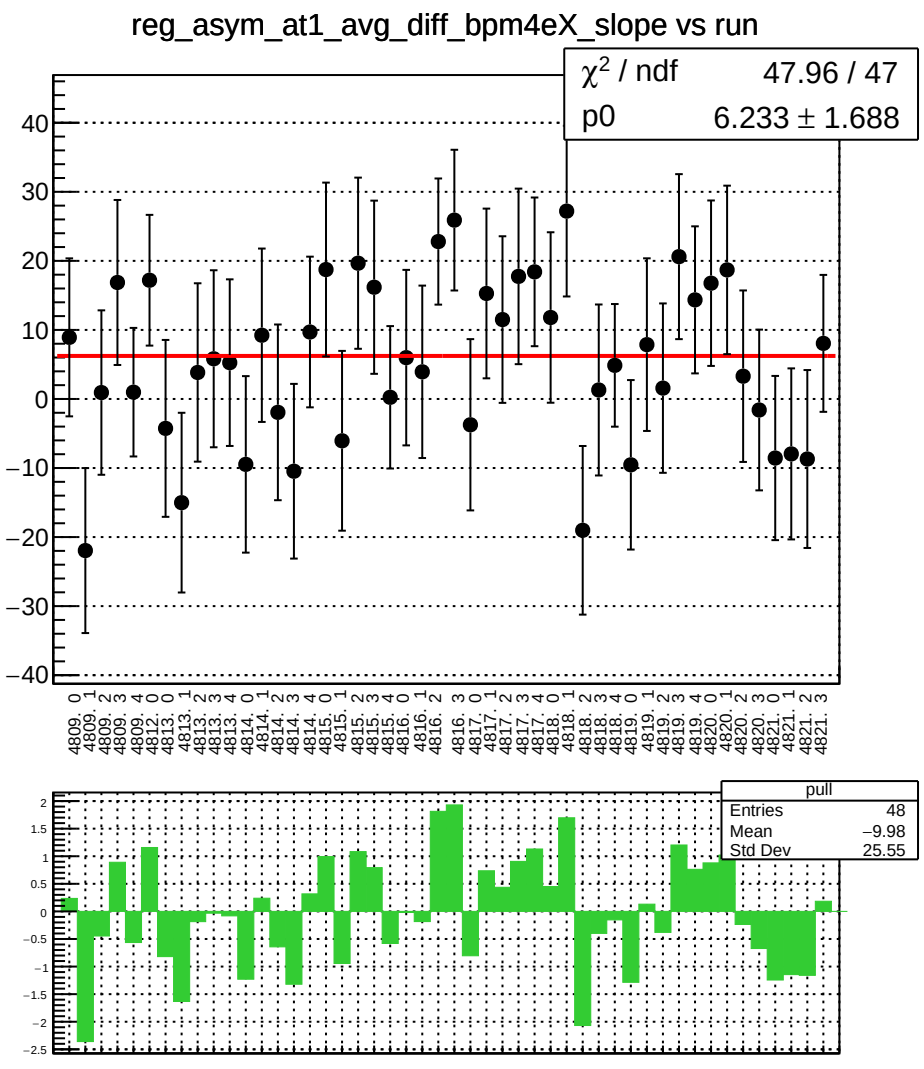

pull1D
Entries 48
Mean 0.01347
Std Dev 0.9524

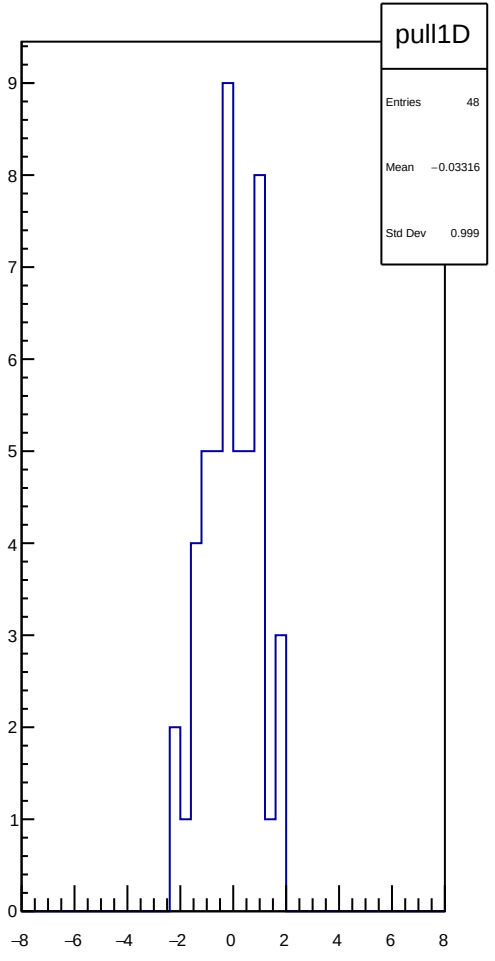

reg_asym_at1_avg_diff_bpm4aX_slope vs run
χ² / ndf 44.94 / 47
p0 −9.346 ± 8.789
pull
Entries 48
Mean 27.74
Std Dev 5.492

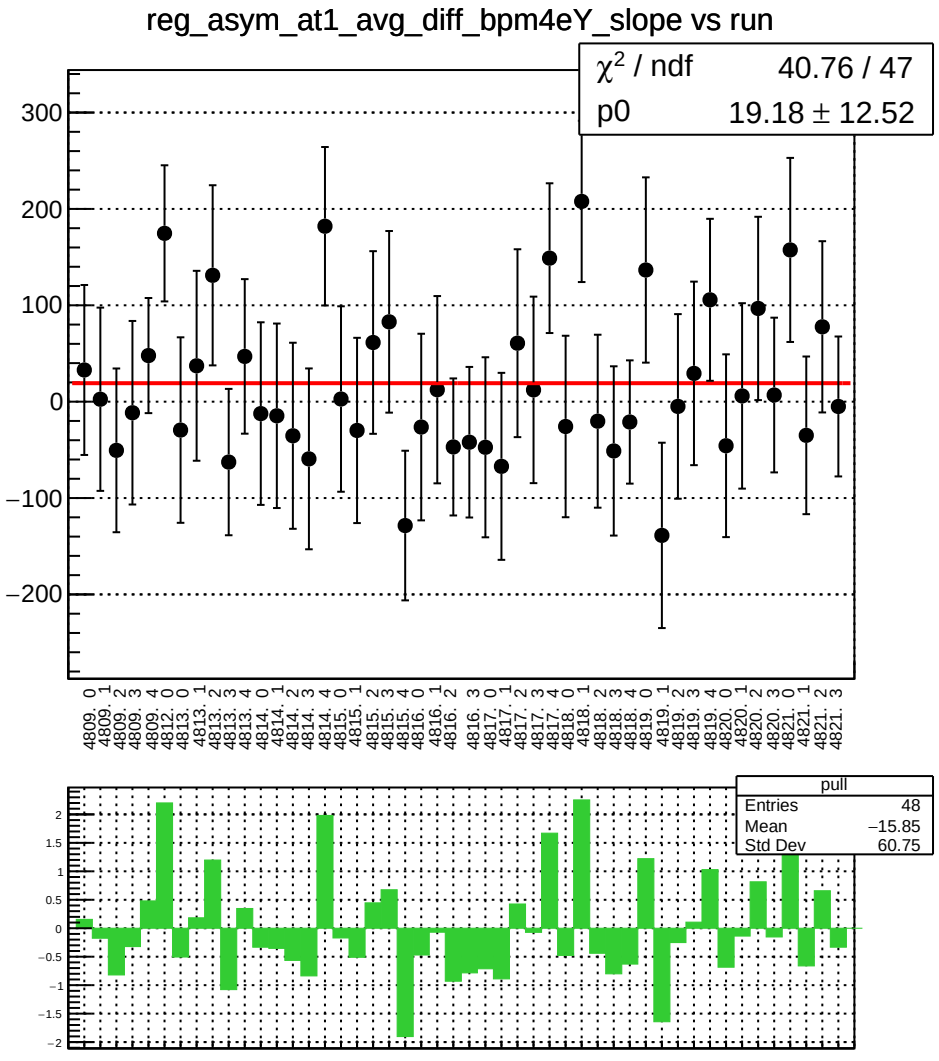

pull1D
Entries 48
Mean 0.02778
Std Dev 0.9672

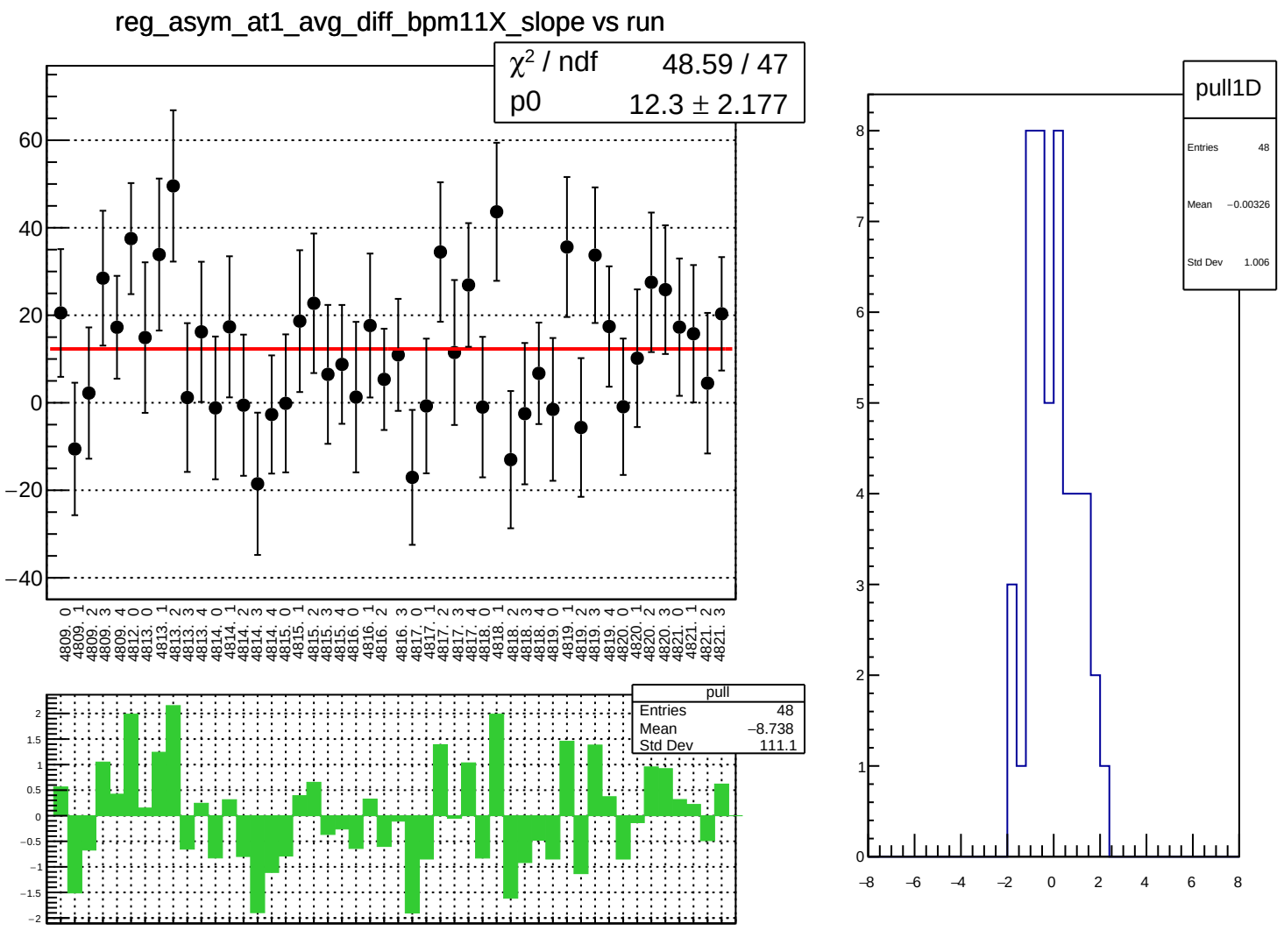

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 48.89 / 47
p0 −11.63 ± 10.56
pull
Entries 48
Mean 25.61
Std Dev 60.73

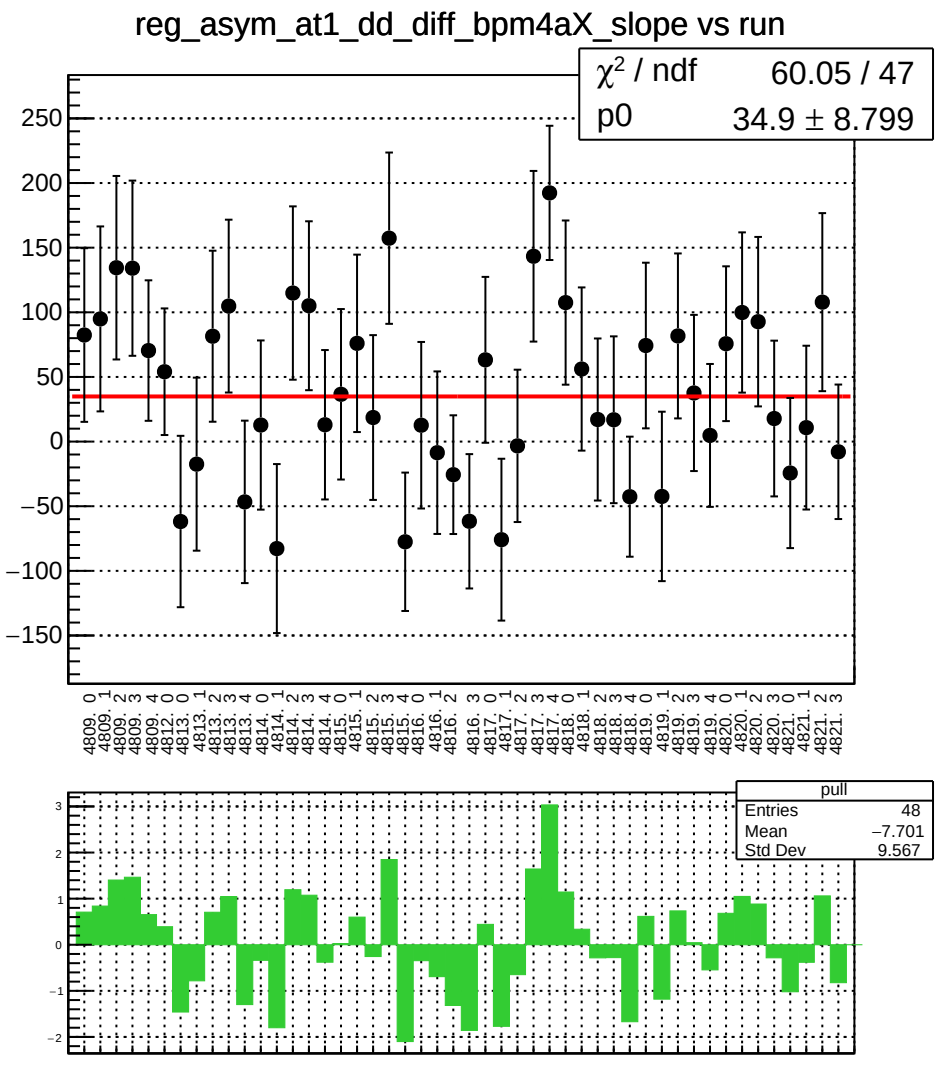

pull1D
Entries 48
Mean −0.0102
Std Dev 1.009

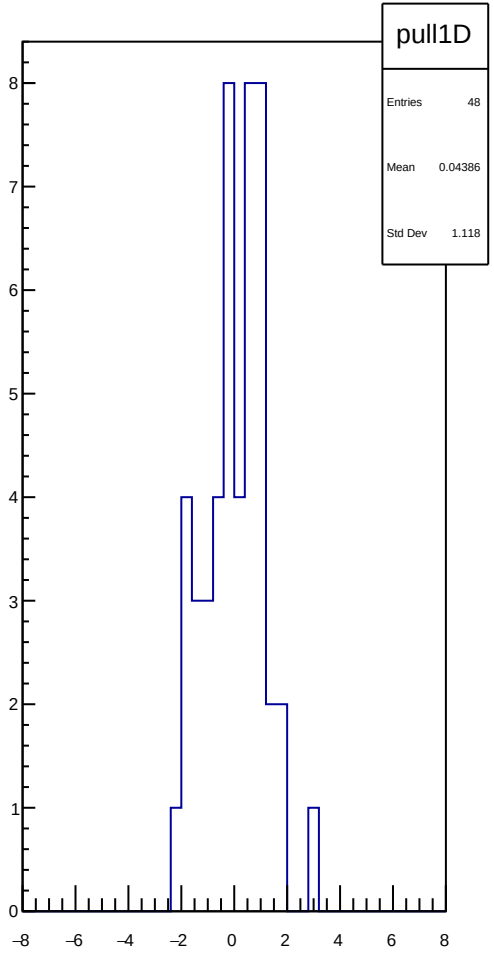

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 47.96 / 47
p0 6.233 ± 1.688
pull
Entries 48
Mean −9.98
Std Dev 25.55

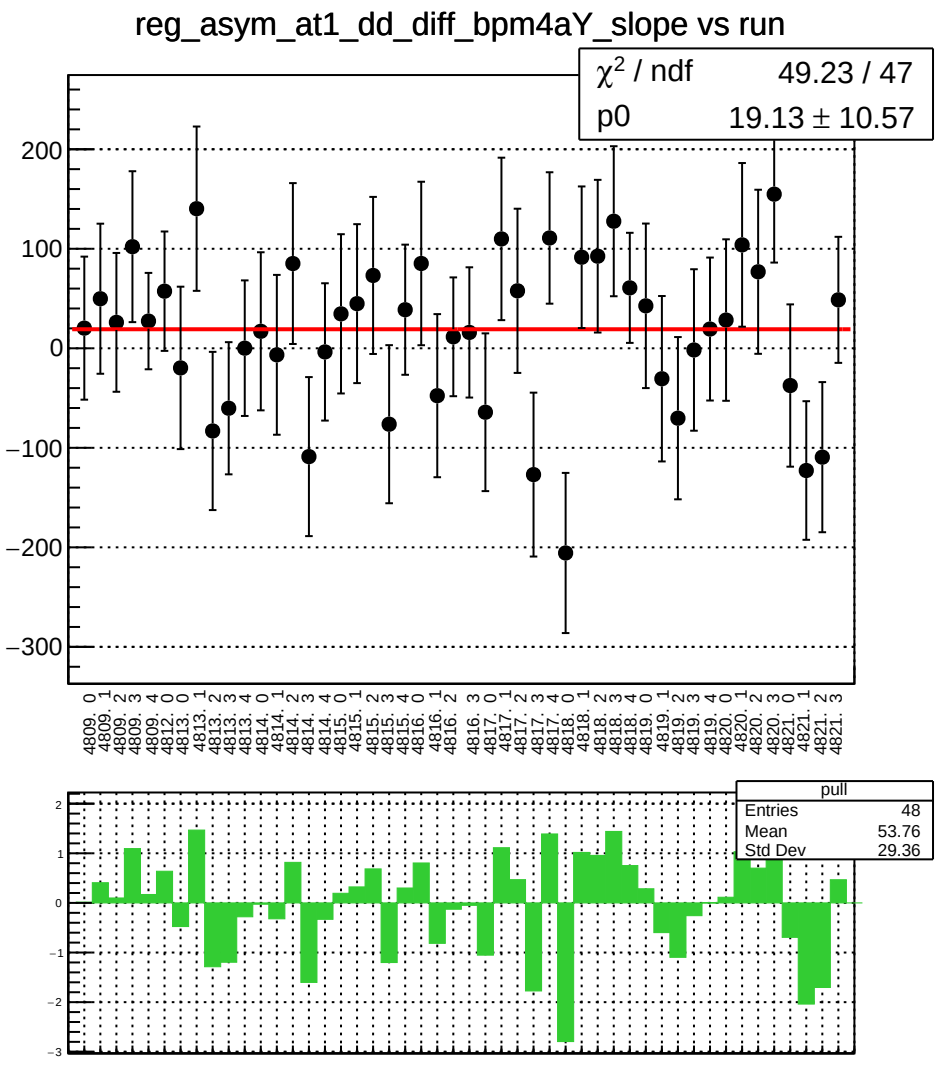

pull1D
Entries 48
Mean −0.03316
Std Dev 0.999

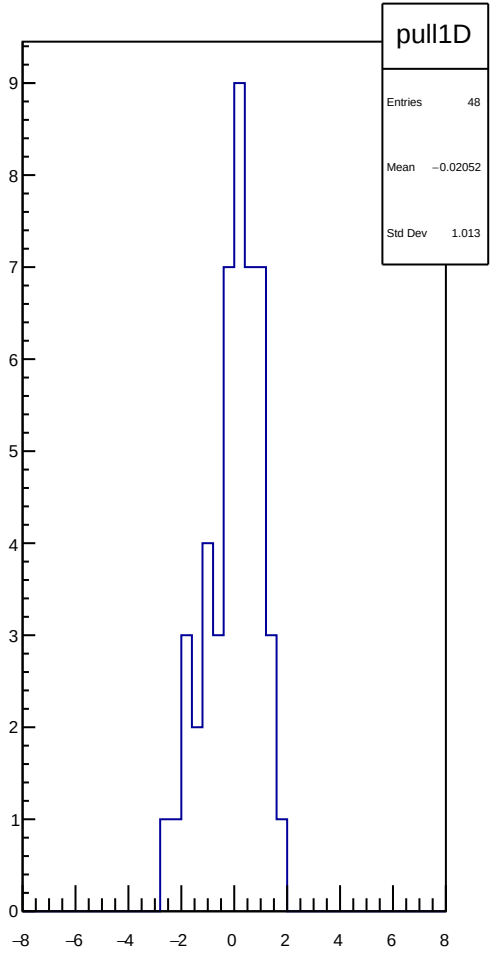

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 40.76 / 47
p0 19.18 ± 12.52
300
200
100
0
−100
−200
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean −15.85
Std Dev 60.75
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 48
Mean −0.008598
Std Dev 0.9214
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

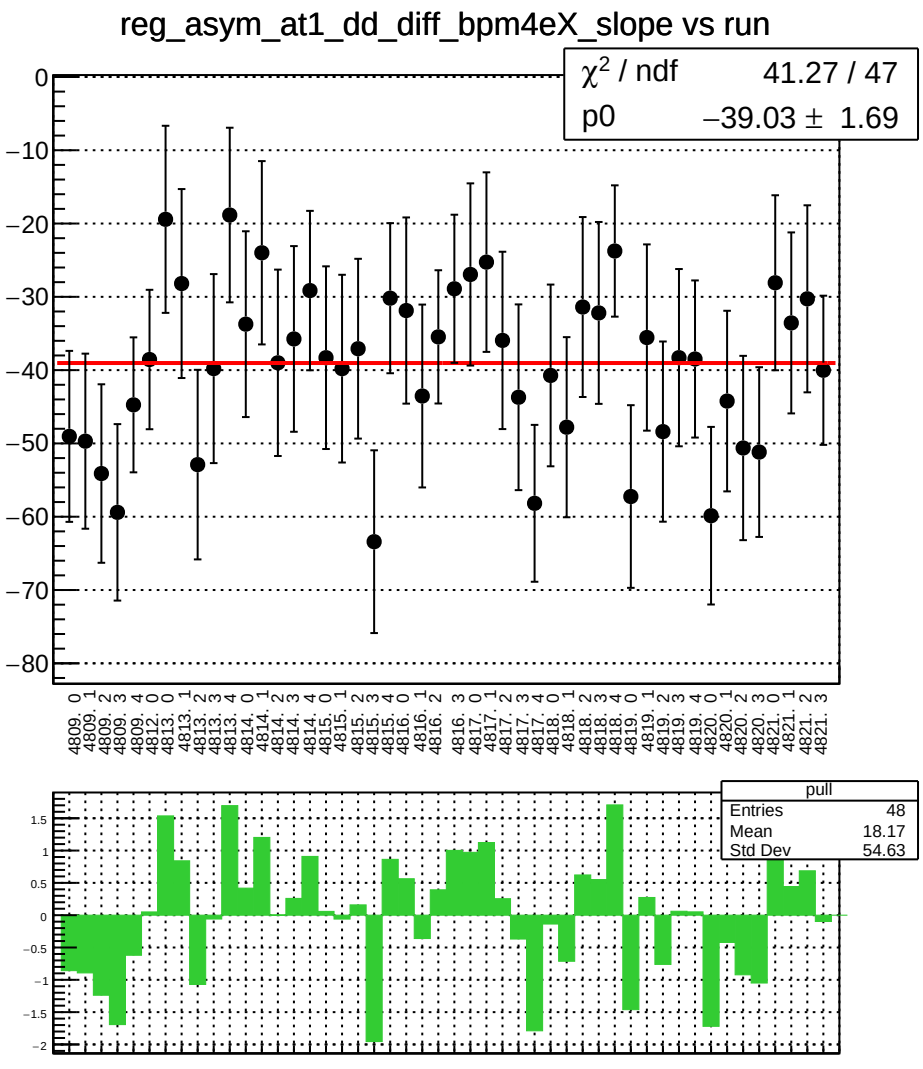

reg_asym_at1_avg_diff_bpm11X_slope vs run
χ² / ndf 48.59 / 47
p0 12.3 ± 2.177
pull
Entries 48
Mean −8.738
Std Dev 111.1
pull1D
Entries 48
Mean −0.00326
Std Dev 1.006

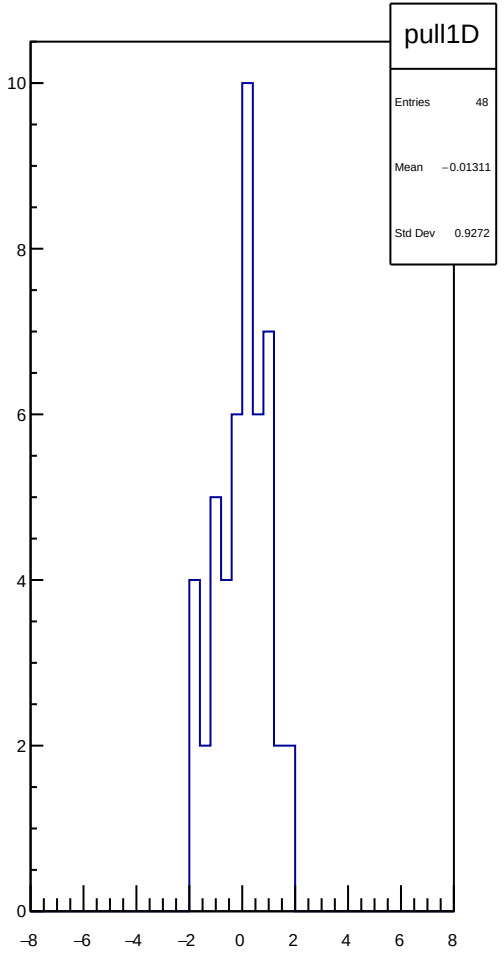

reg_asym_at1_dd_diff_bpm4aX_slope vs run
χ² / ndf 60.05 / 47
p0 34.9 ± 8.799
pull
Entries 48
Mean −7.701
Std Dev 9.567

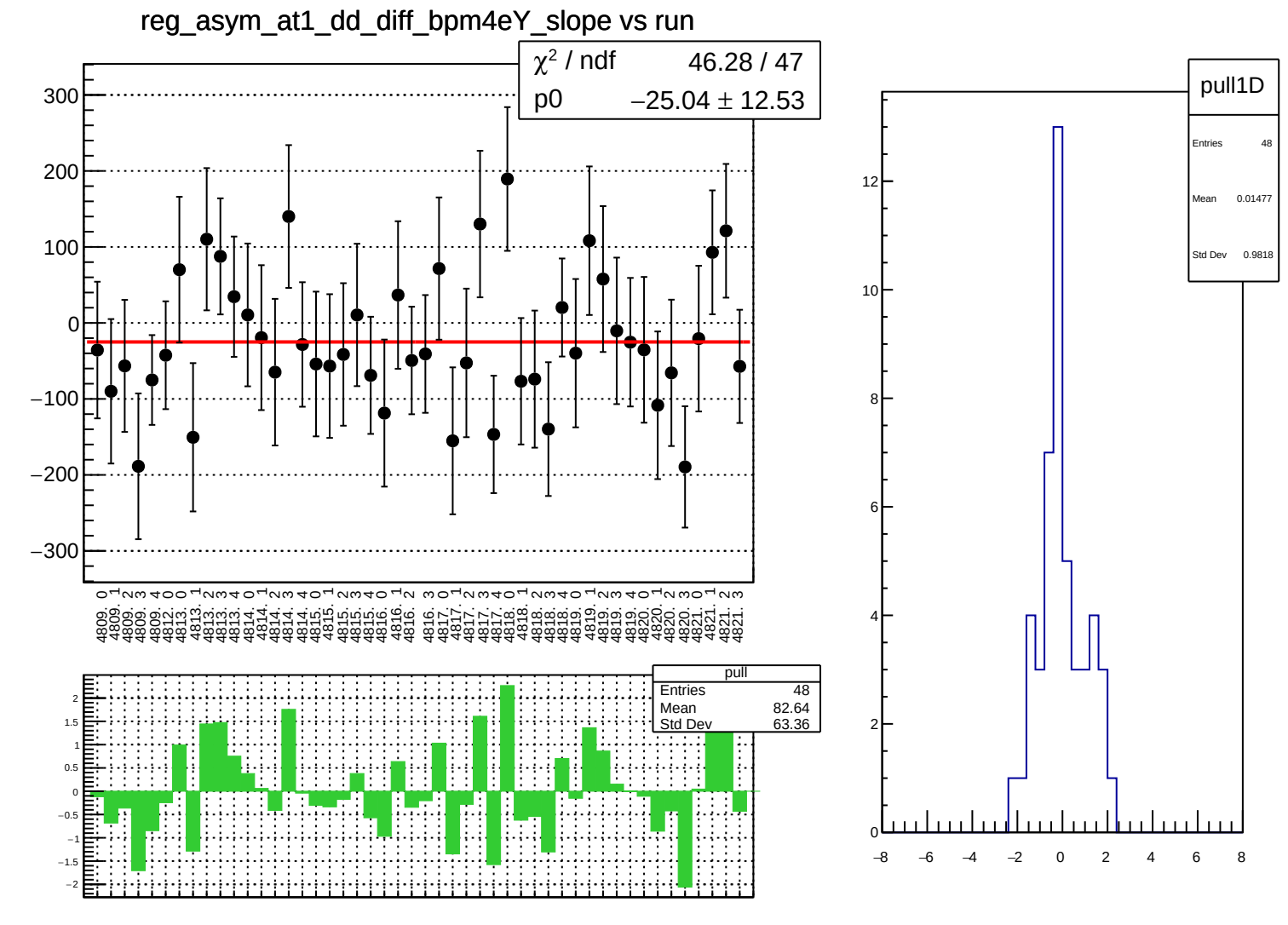

pull1D
Entries 48
Mean 0.04386
Std Dev 1.118

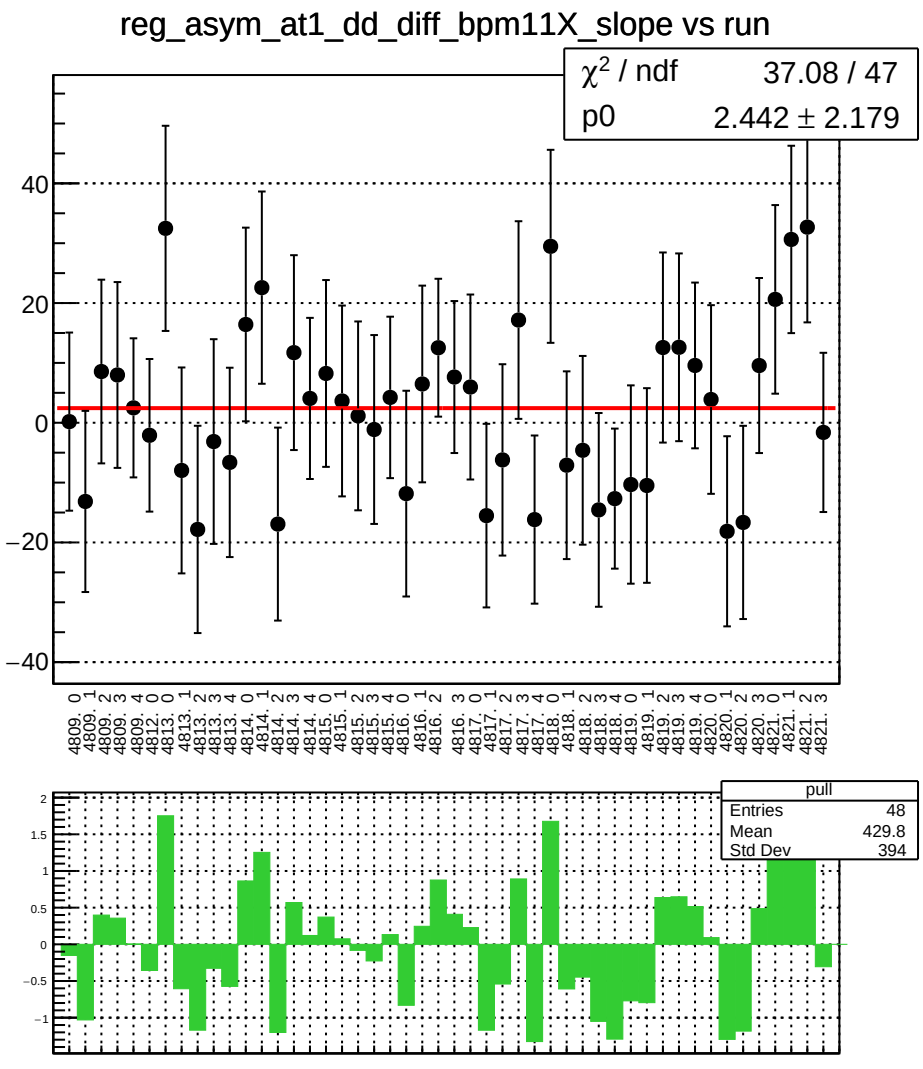

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 49.23 / 47
p0 19.13 ± 10.57
200
100
0
−100
−200
−300
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 53.76
Std Dev 29.36
2
1
0
−1
−2
−3

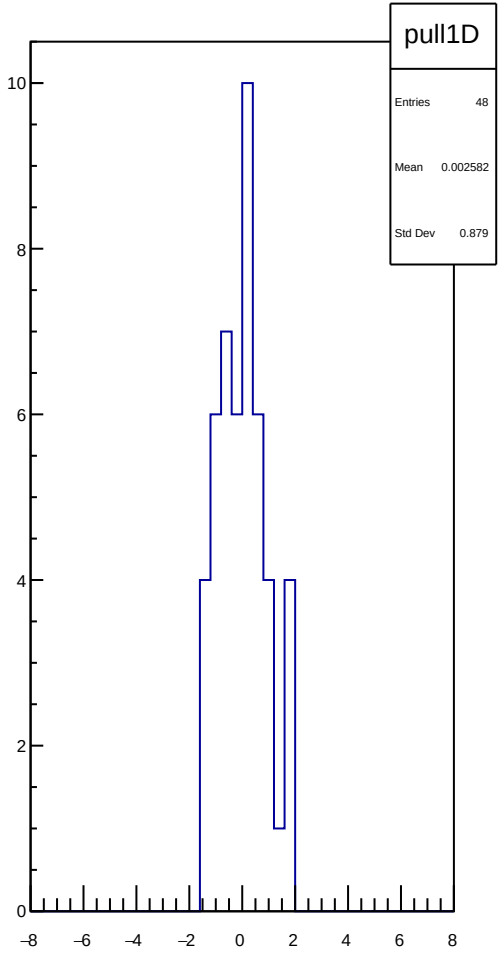

pull1D
Entries 48
Mean −0.02052
Std Dev 1.013
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

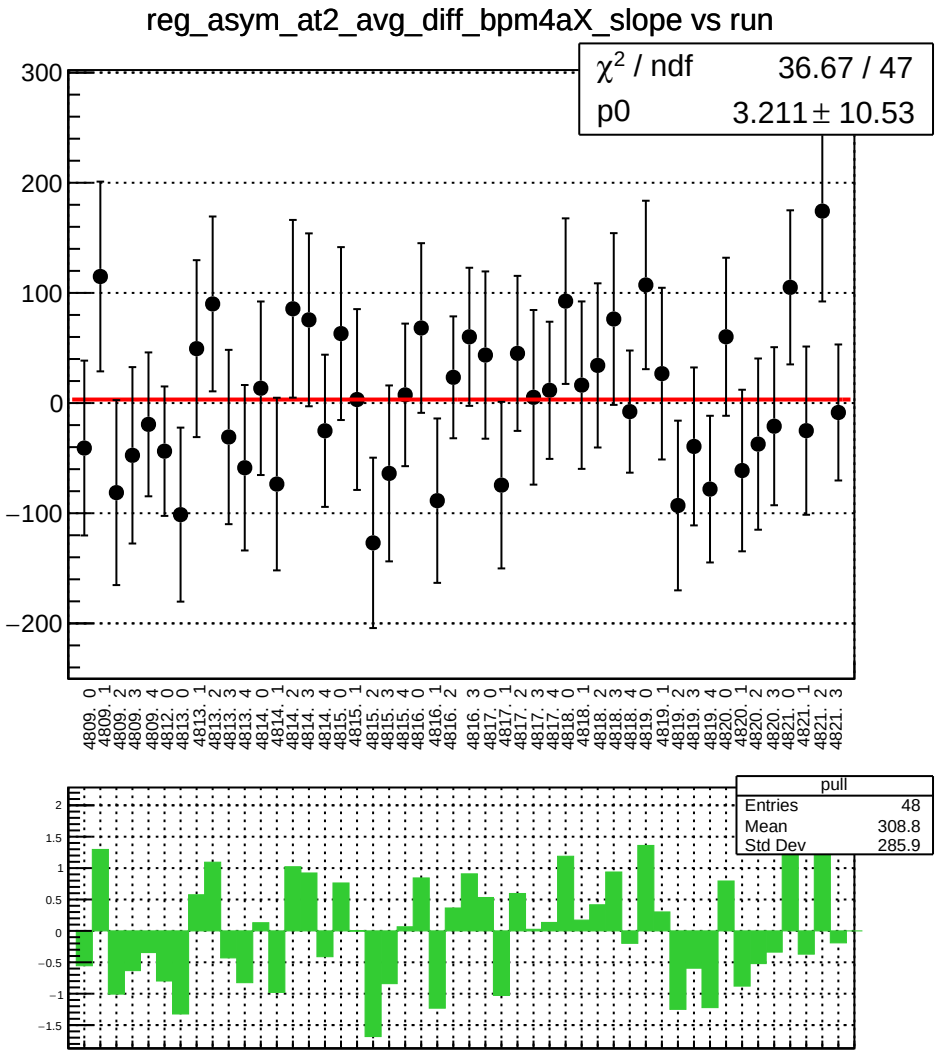

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 41.27 / 47
p0 −39.03 ± 1.69
pull
Entries 48
Mean 18.17
Std Dev 54.63

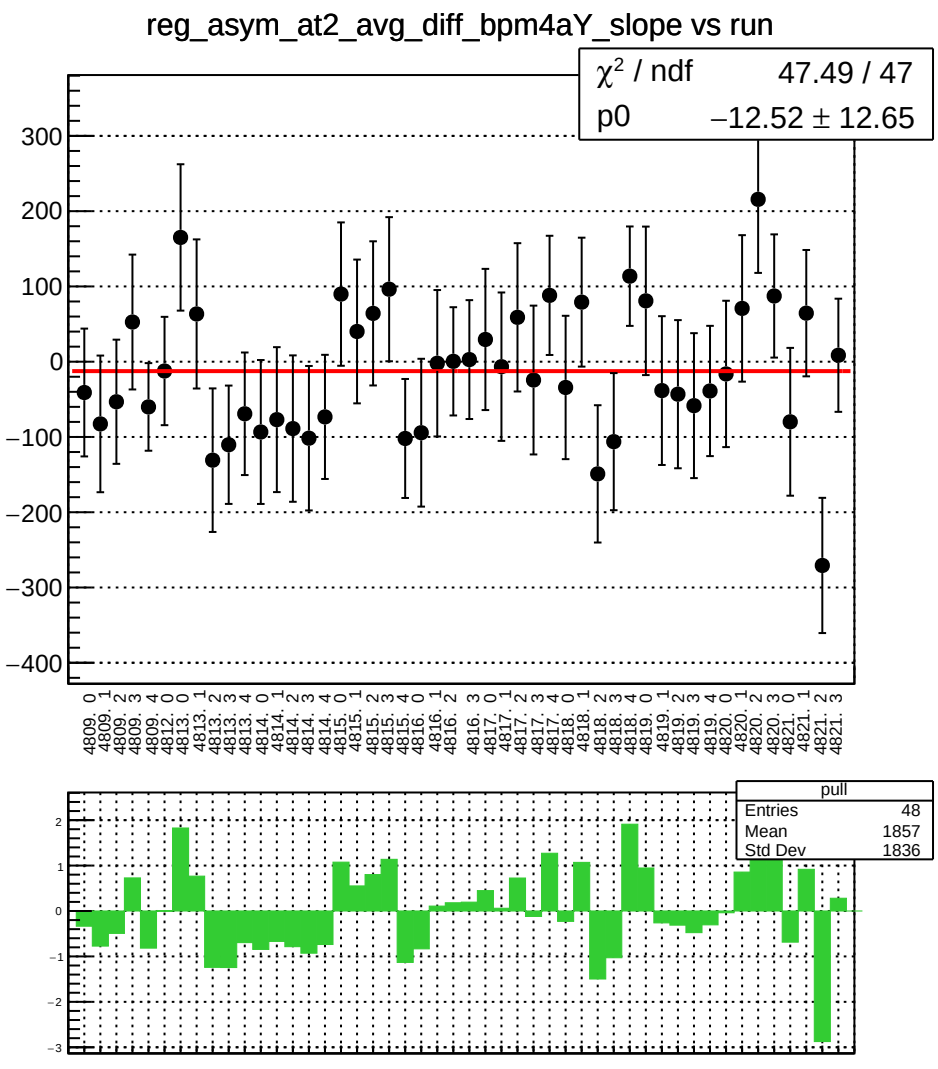

pull1D
Entries 48
Mean −0.01311
Std Dev 0.9272

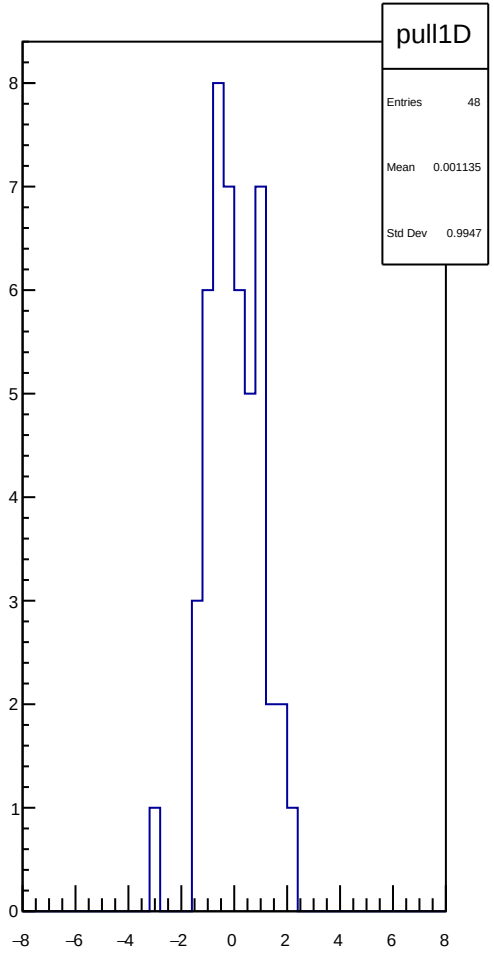

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 46.28 / 47
p0 −25.04 ± 12.53
pull
Entries 48
Mean 82.64
Std Dev 63.36
pull1D
Entries 48
Mean 0.01477
Std Dev 0.9818

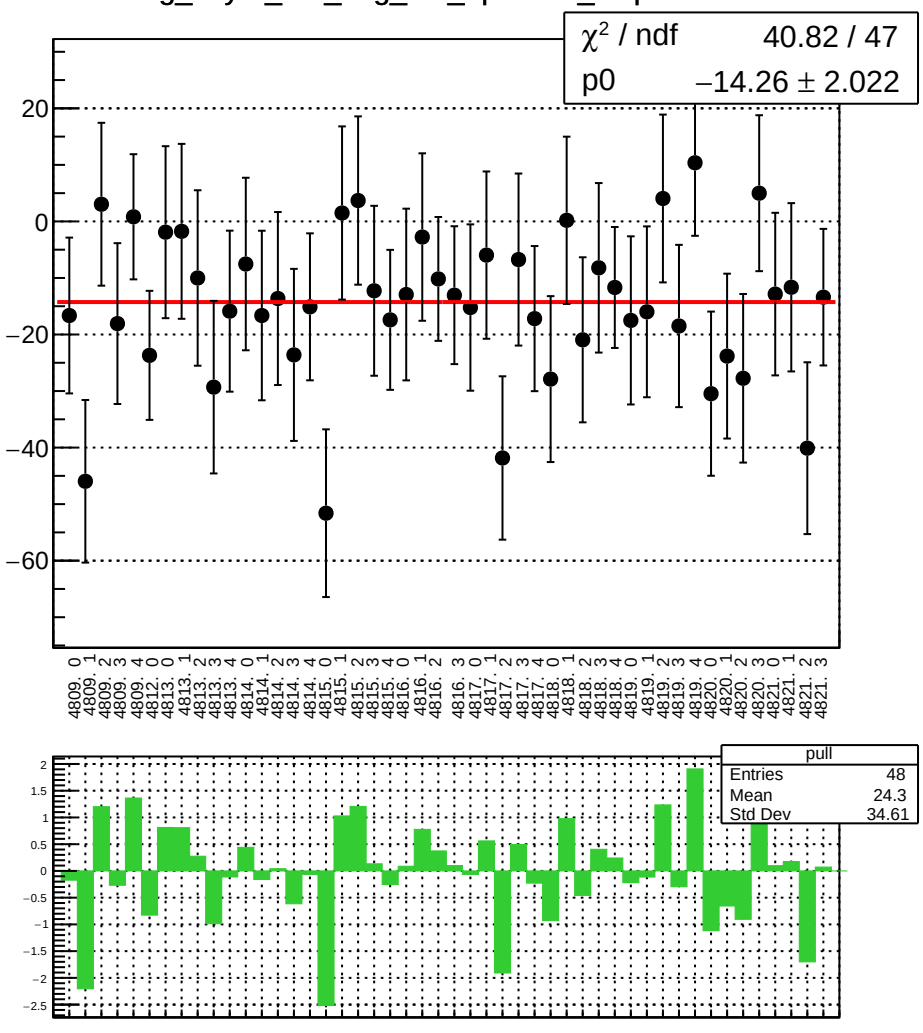

reg_asym_at1_dd_diff_bpm11X_slope vs run
χ² / ndf 37.08 / 47
p0 2.442 ± 2.179
40
20
0
−20
−40
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 429.8
Std Dev 394
2
1.5
1
0.5
0
−0.5
−1

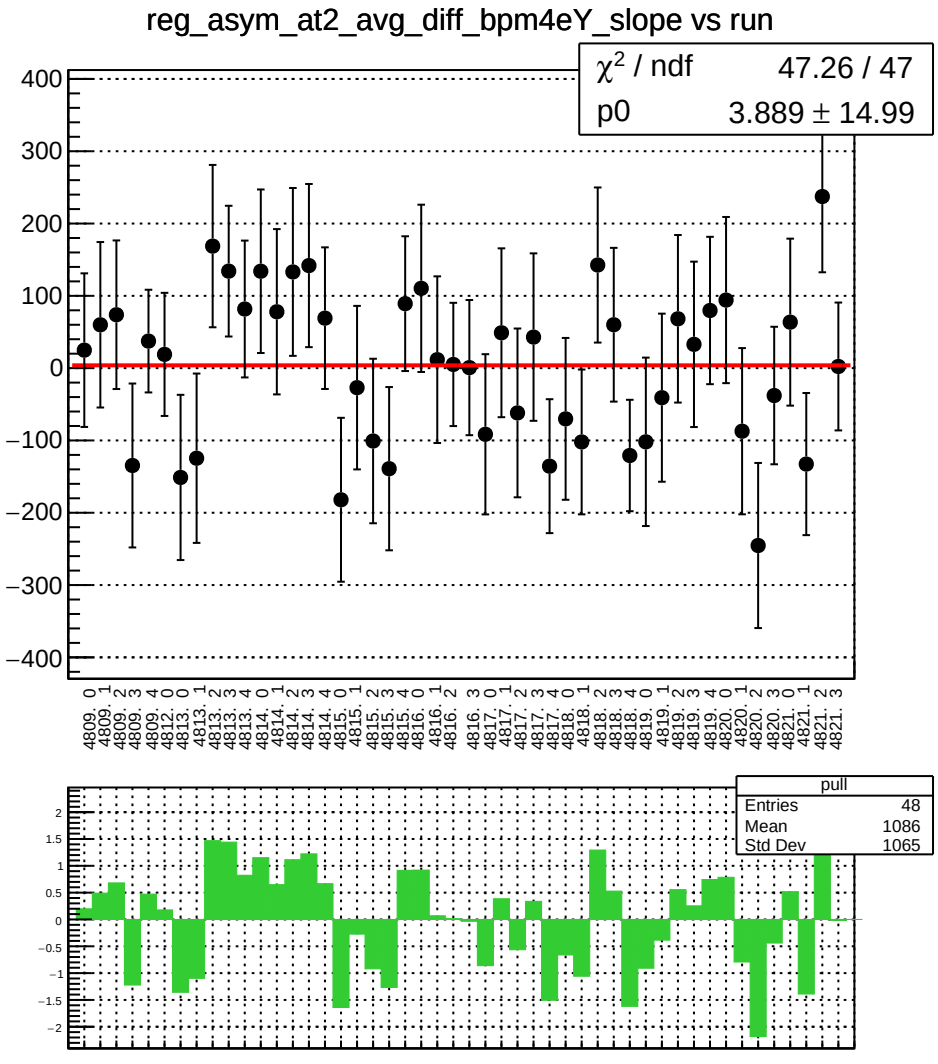

pull1D
Entries 48
Mean 0.002582
Std Dev 0.879
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

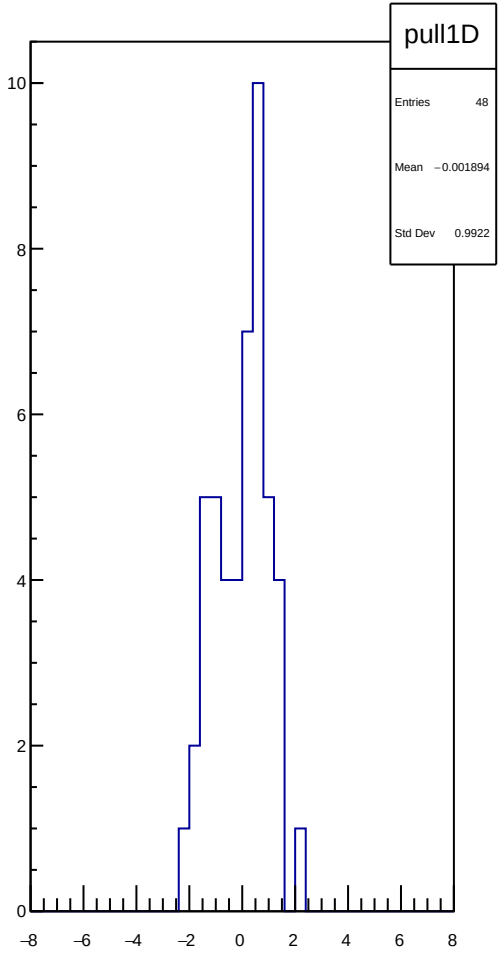

reg_asym_at2_avg_diff_bpm4aX_slope vs run
χ² / ndf 36.67 / 47
p0 3.211 ± 10.53
300
200
100
0
−100
−200
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 308.8
Std Dev 285.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 48
Mean 0.007035
Std Dev 0.874
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

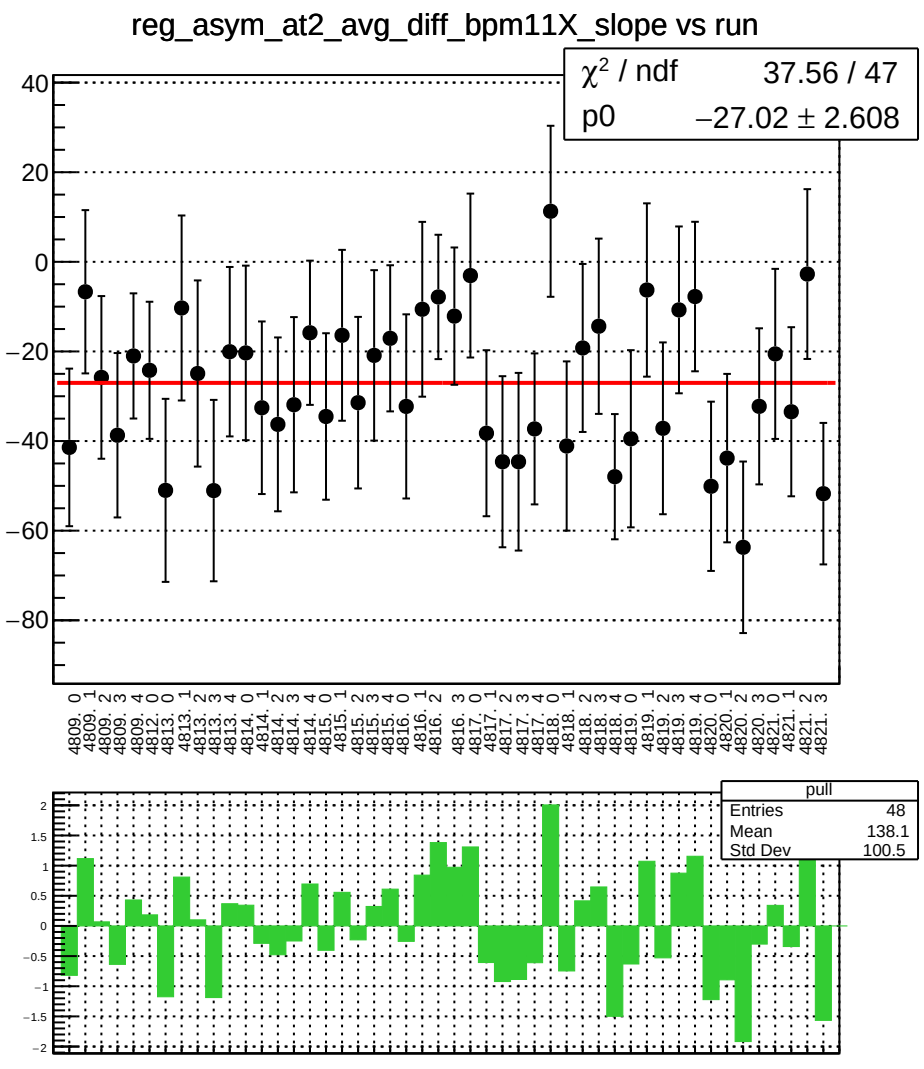

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 47.49 / 47
p0 −12.52 ± 12.65
300
200
100
0
−100
−200
−300
−400
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 1857
Std Dev 1836
2
1
0
−1
−2
−3

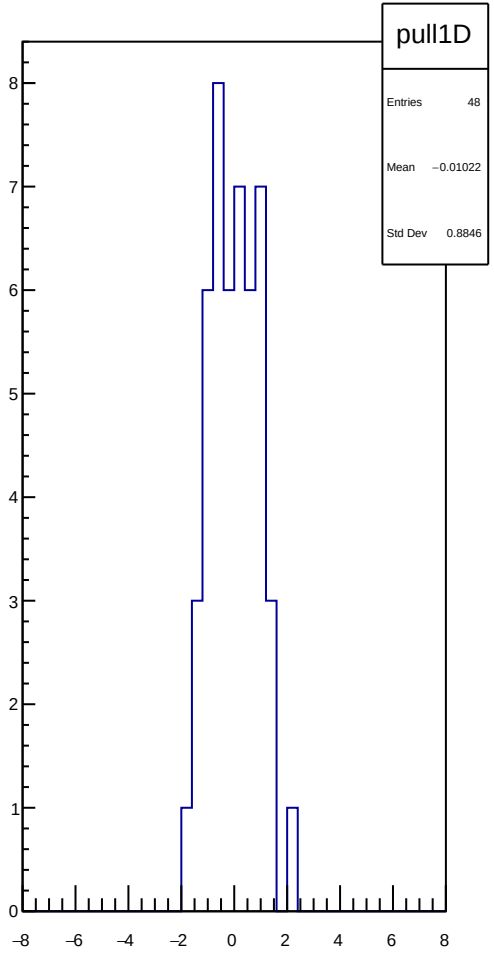

pull1D
Entries 48
Mean 0.001135
Std Dev 0.9947
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

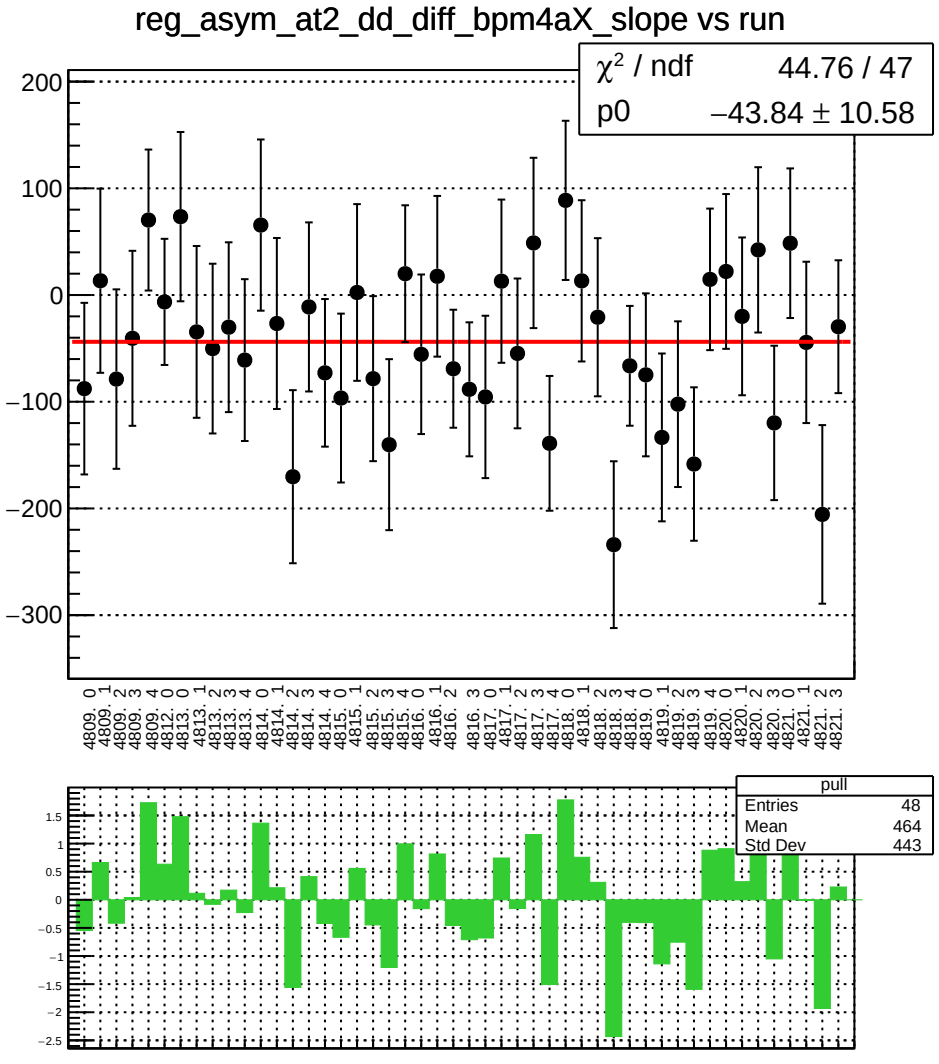

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 40.82 / 47
p0 −14.26 ± 2.022
20
0
−20
−40
−60
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 24.3
Std Dev 34.61
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 48
Mean −0.01168
Std Dev 0.9221
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

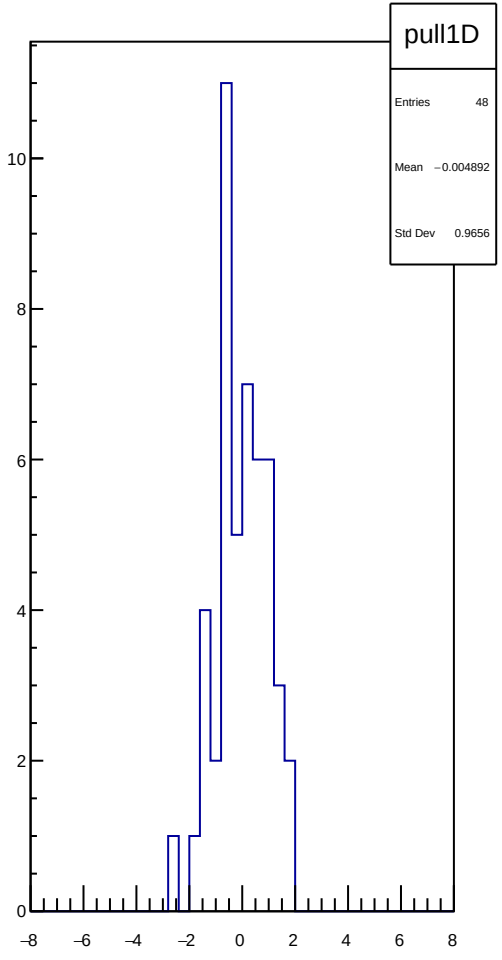

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 47.26 / 47
p0 3.889 ± 14.99
pull
Entries 48
Mean 1086
Std Dev 1065

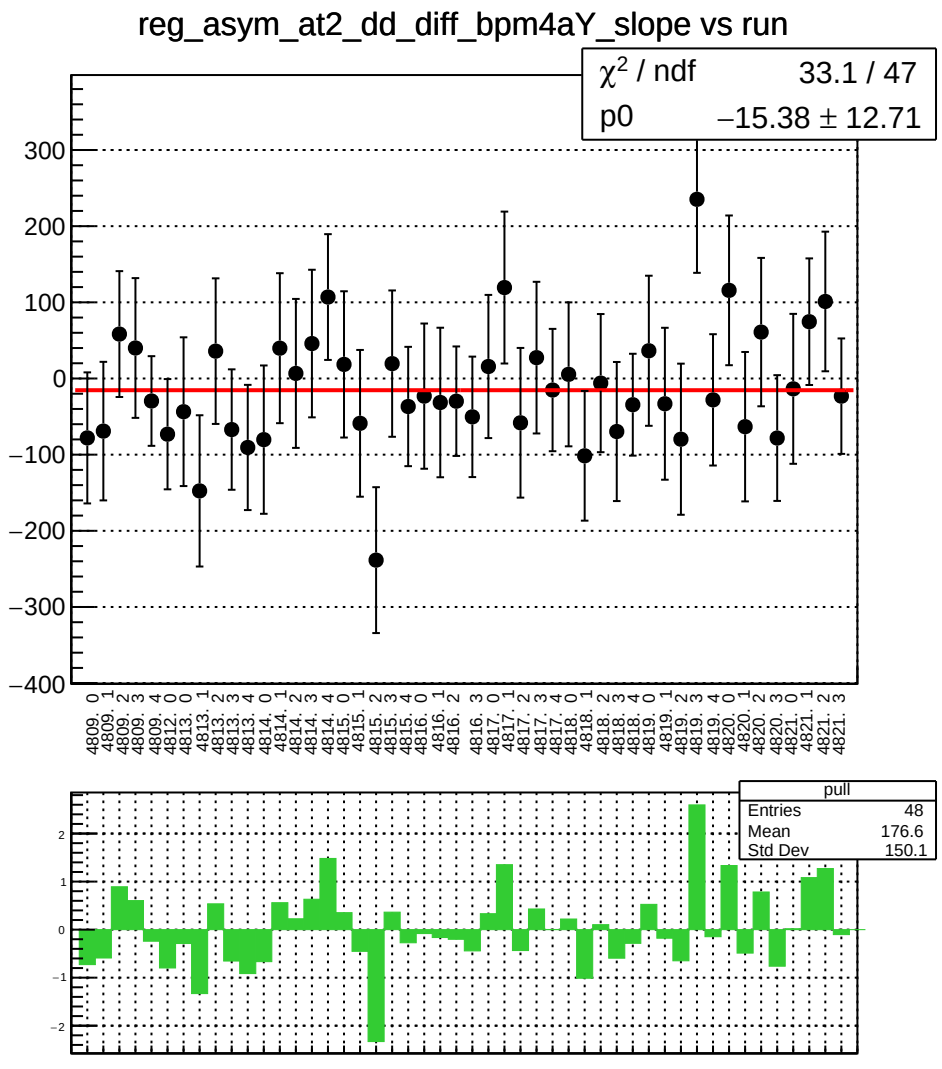

pull1D
Entries 48
Mean −0.001894
Std Dev 0.9922

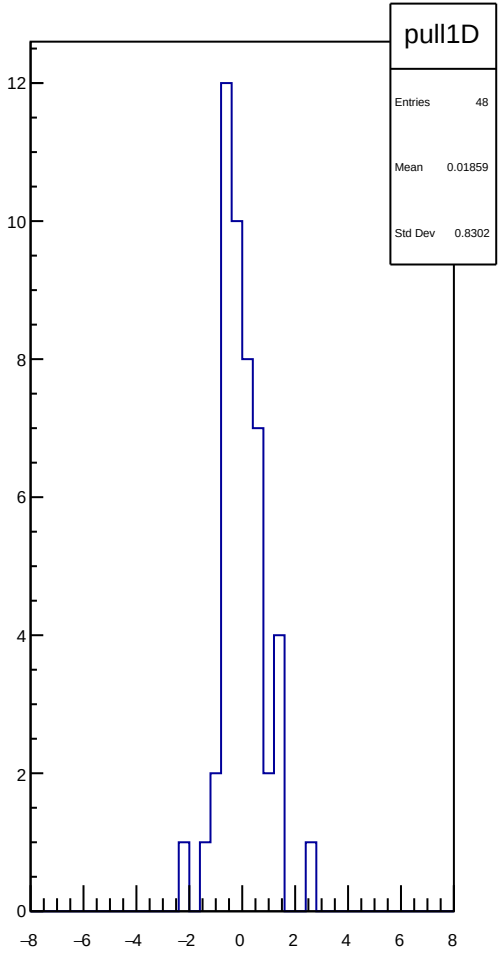

reg_asym_at2_avg_diff_bpm11X_slope vs run
χ² / ndf 37.56 / 47
p0 −27.02 ± 2.608
pull
Entries 48
Mean 138.1
Std Dev 100.5

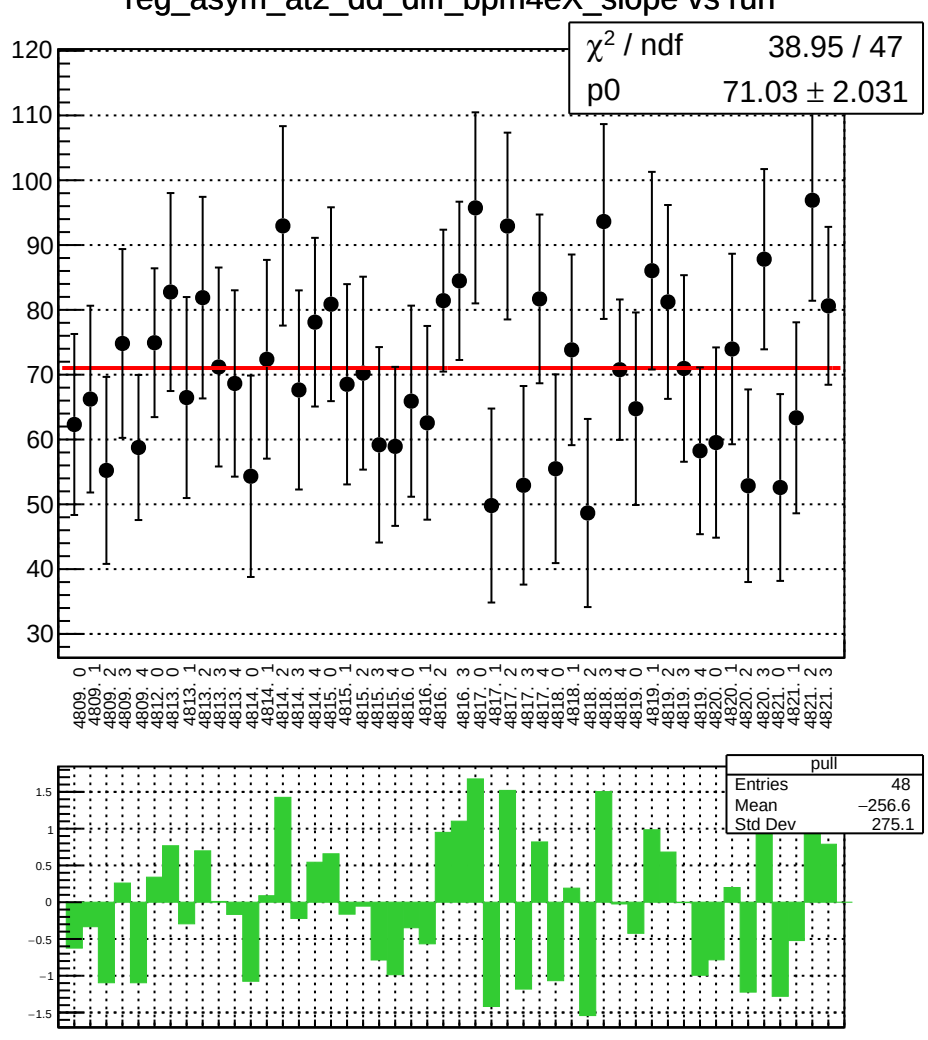

pull1D
Entries 48
Mean −0.01022
Std Dev 0.8846

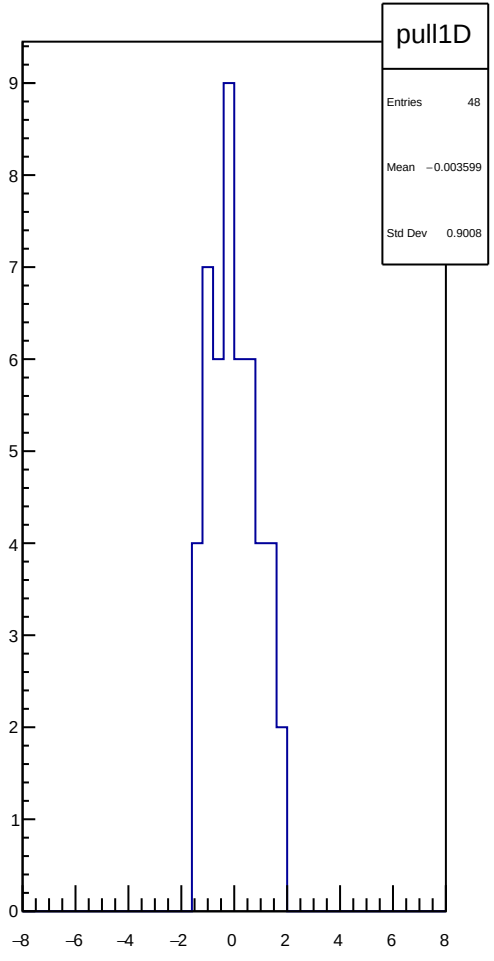

reg_asym_at2_dd_diff_bpm4aX_slope vs run
χ² / ndf 44.76 / 47
p0 −43.84 ± 10.58
200
100
0
−100
−200
−300
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 464
Std Dev 443
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

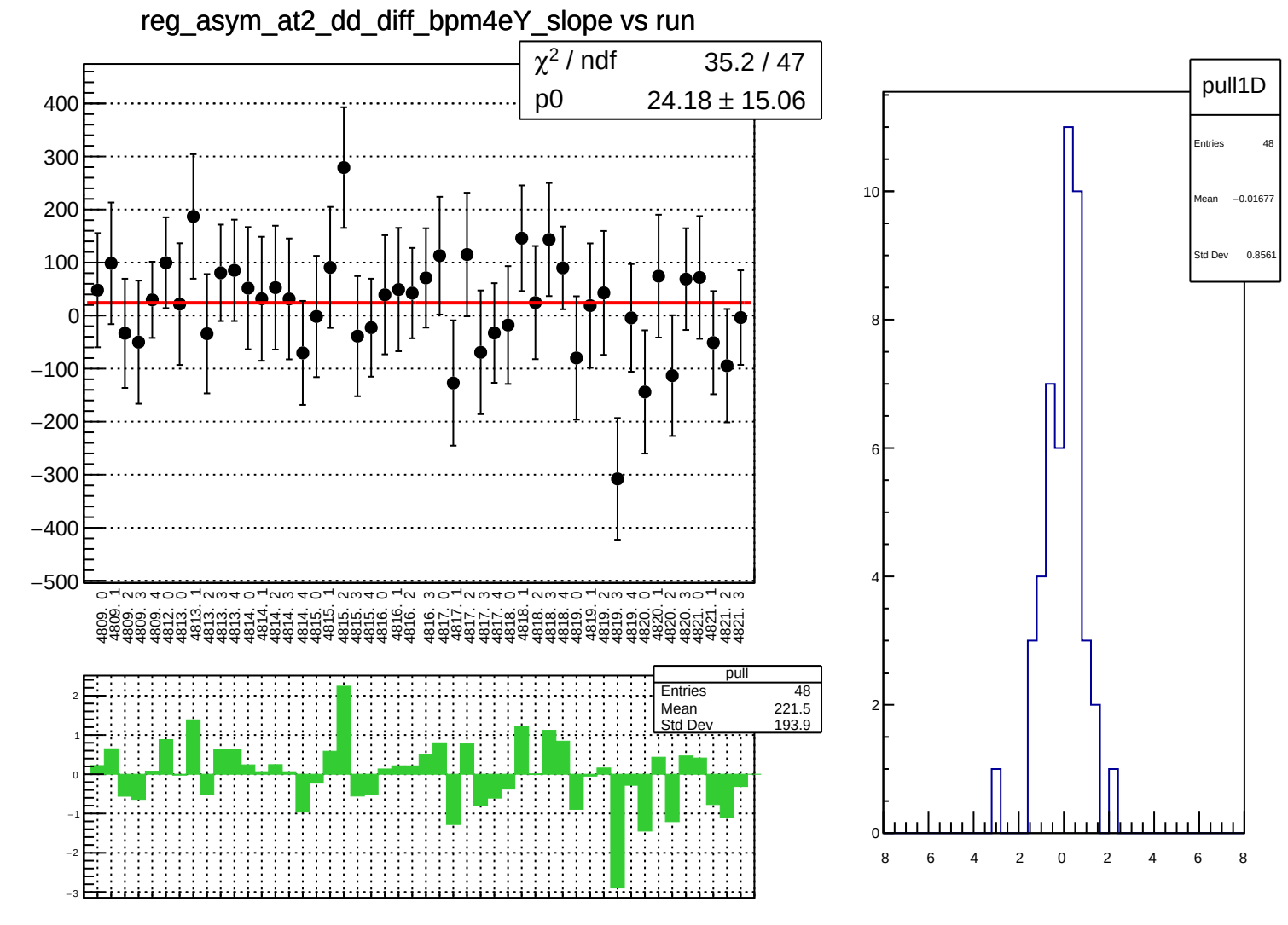

pull1D
Entries 48
Mean −0.004892
Std Dev 0.9656
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

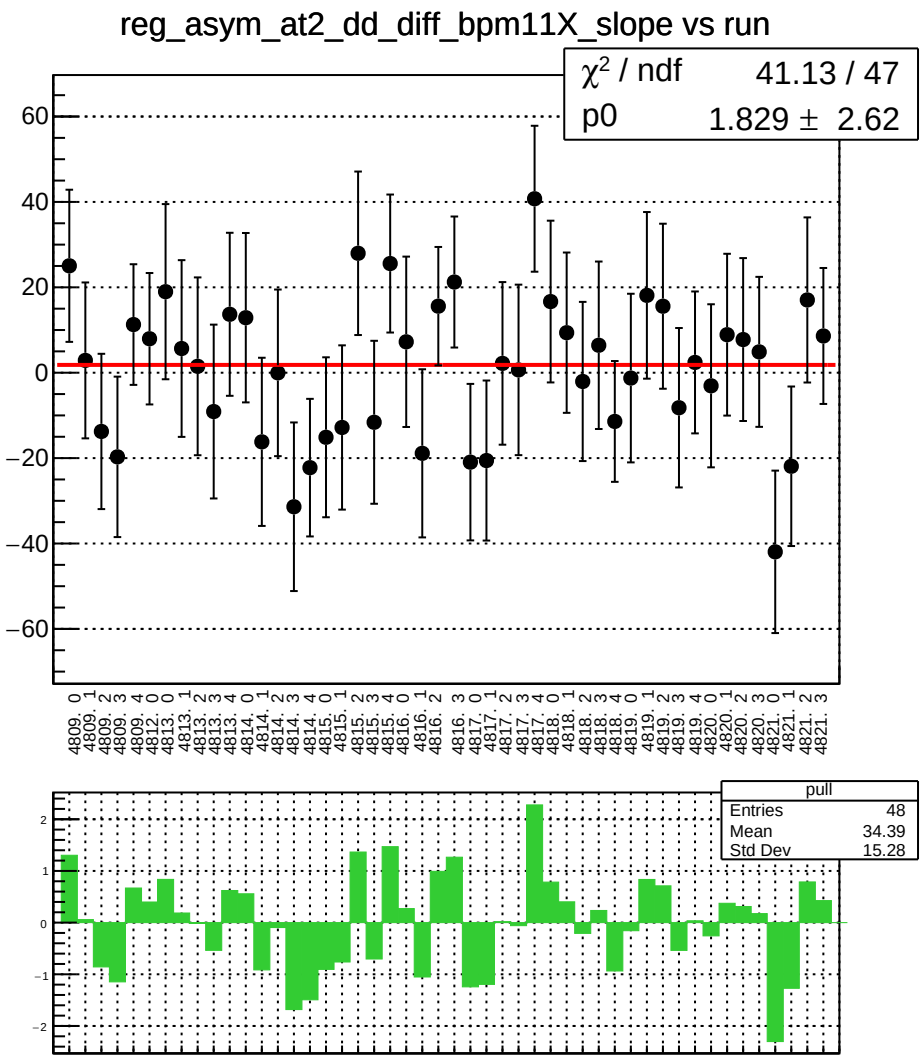

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 33.1 / 47
p0 −15.38 ± 12.71
pull
Entries 48
Mean 176.6
Std Dev 150.1

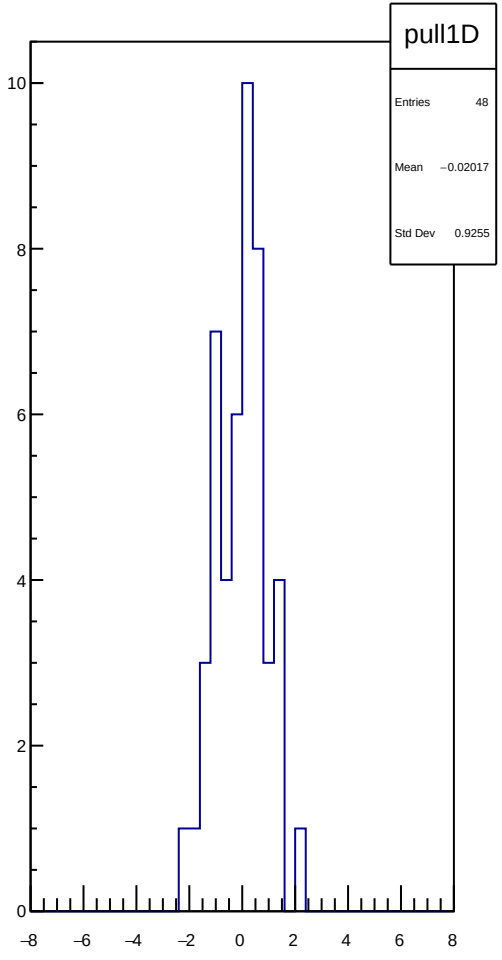

pull1D
Entries 48
Mean 0.01859
Std Dev 0.8302

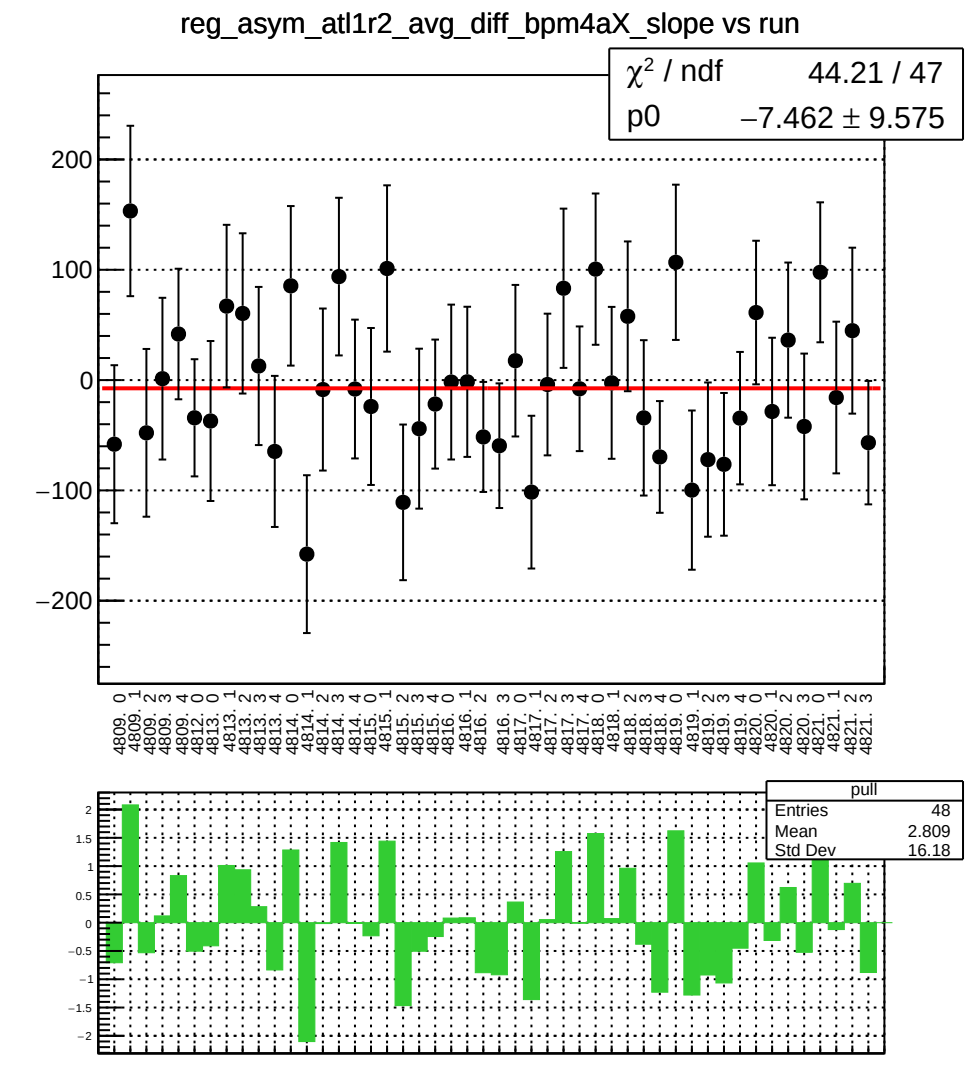

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 38.95 / 47
p0 71.03 ± 2.031
pull
Entries 48
Mean −256.6
Std Dev 275.1

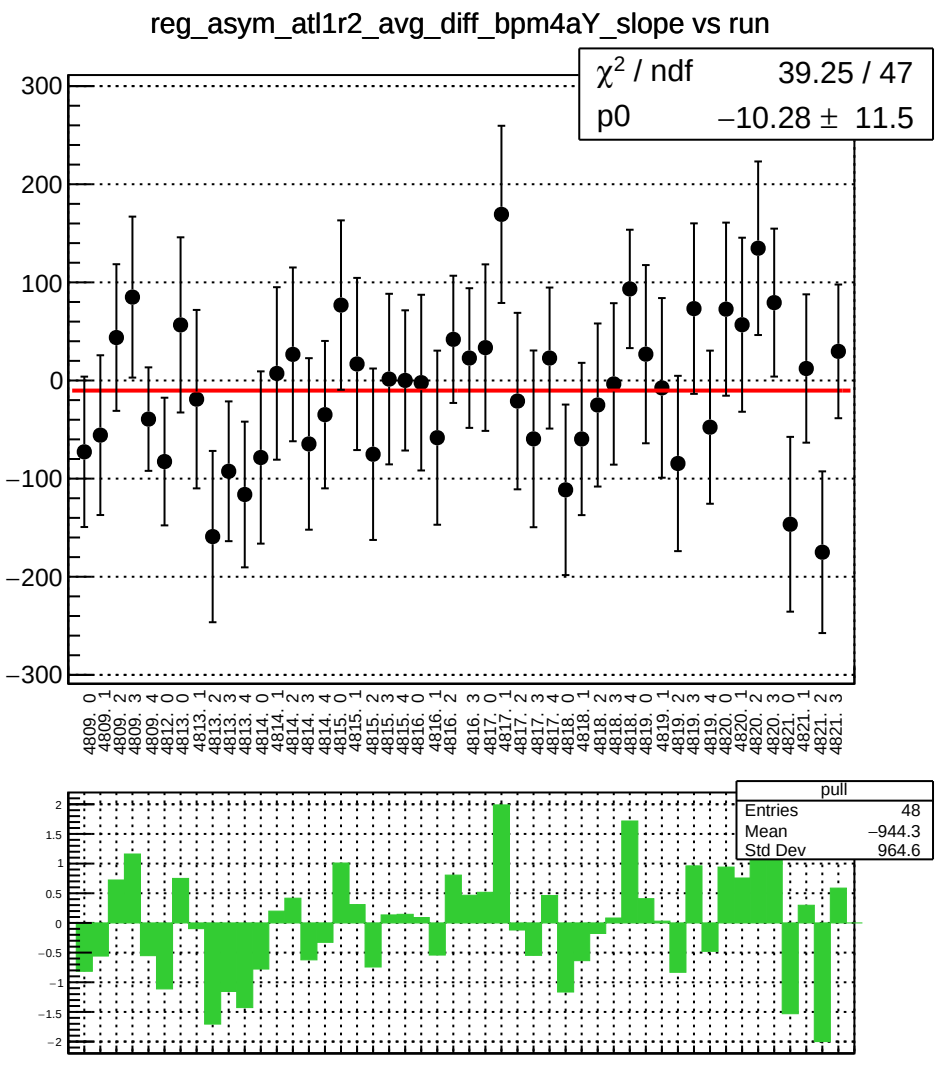

pull1D
Entries 48
Mean −0.003599
Std Dev 0.9008

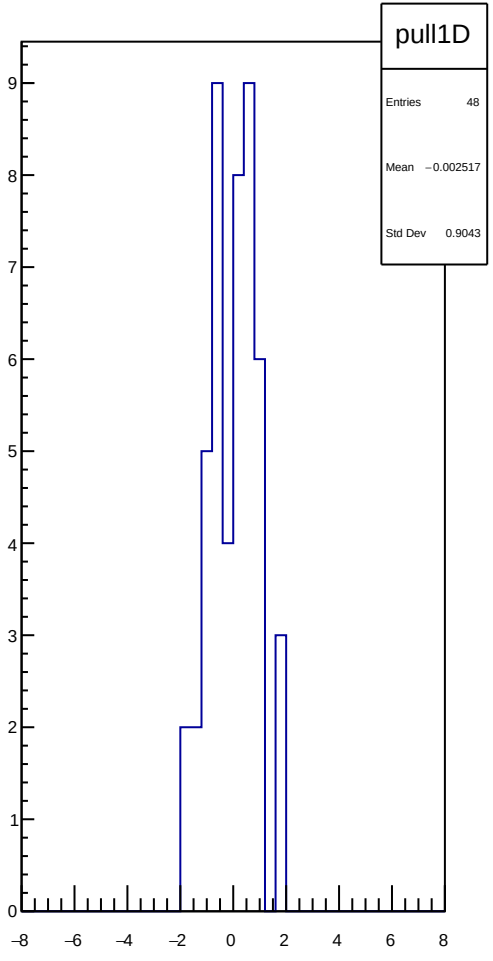

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 35.2 / 47
p0 24.18 ± 15.06
pull
Entries 48
Mean 221.5
Std Dev 193.9
pull1D
Entries 48
Mean −0.01677
Std Dev 0.8561

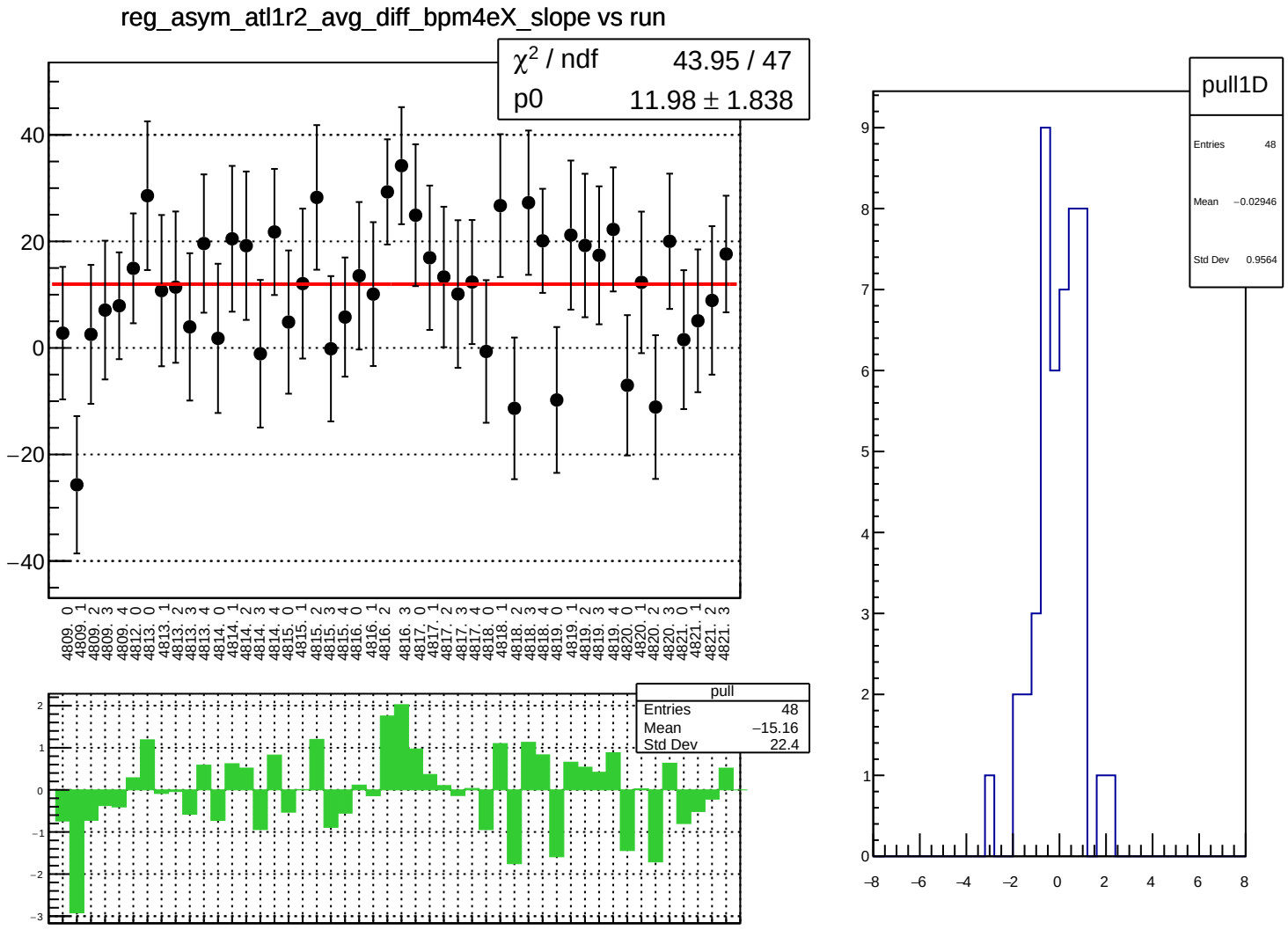

reg_asym_at2_dd_diff_bpm11X_slope vs run
χ² / ndf 41.13 / 47
p0 1.829 ± 2.62
pull
Entries 48
Mean 34.39
Std Dev 15.28

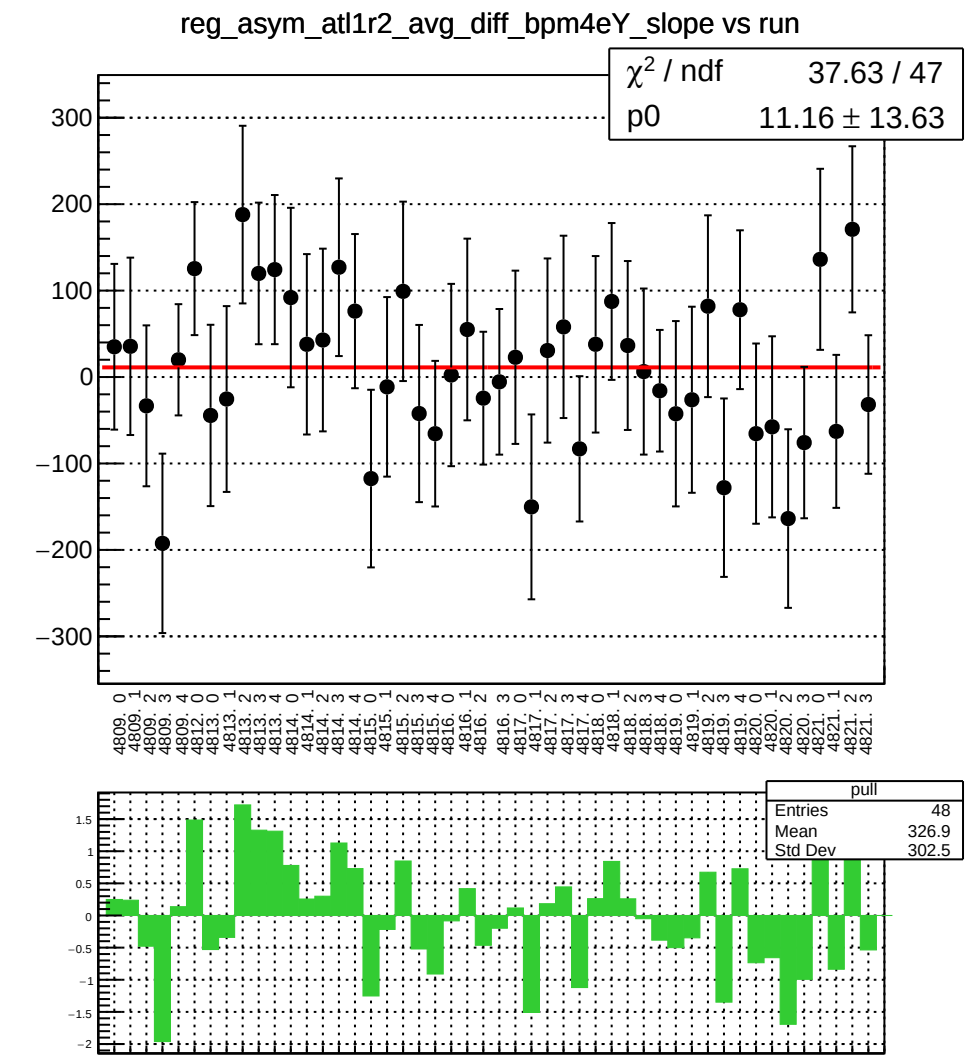

pull1D
Entries 48
Mean −0.02017
Std Dev 0.9255

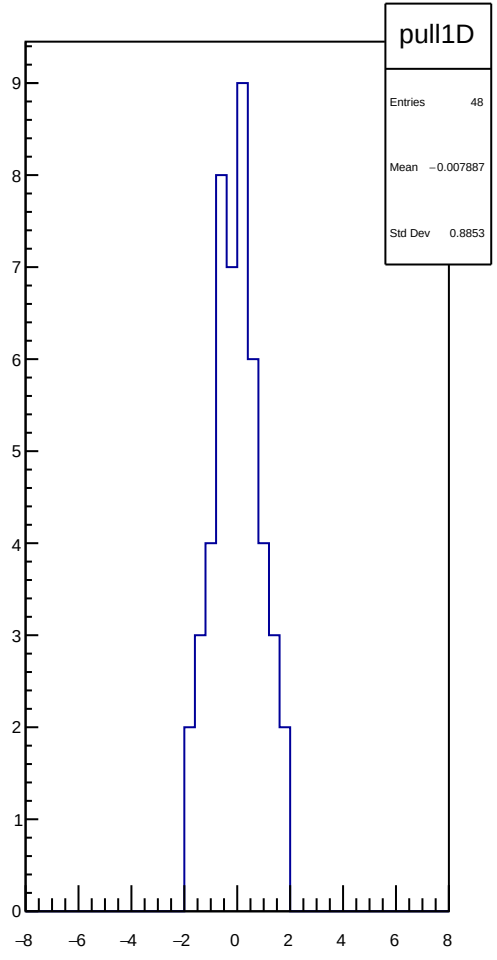

reg_asym_atl1r2_avg_diff_bpm4aX_slope vs run
χ² / ndf 44.21 / 47
p0 −7.462 ± 9.575
200
100
0
−100
−200
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 2.809
Std Dev 16.18
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 48
Mean 0.03361
Std Dev 0.9591
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

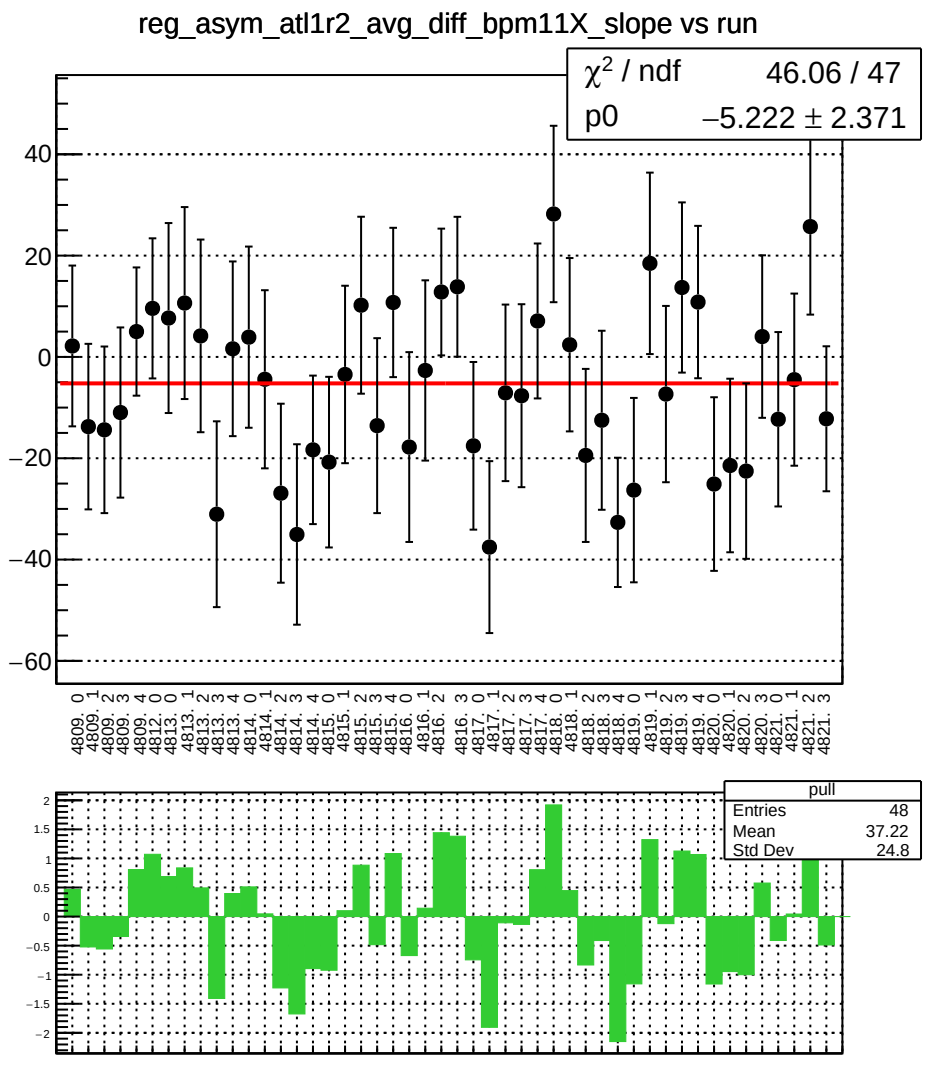

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 39.25 / 47
p0 −10.28 ± 11.5
pull
Entries 48
Mean −944.3
Std Dev 964.6

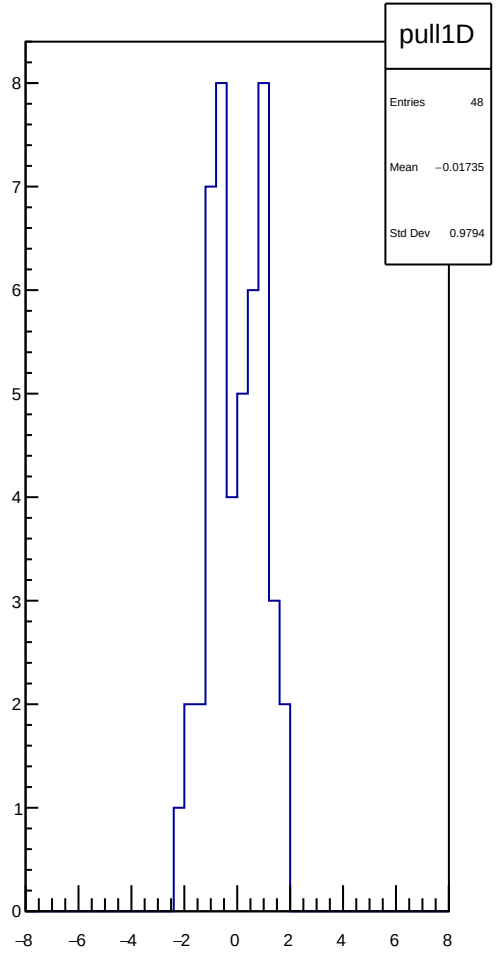

pull1D
Entries 48
Mean −0.002517
Std Dev 0.9043

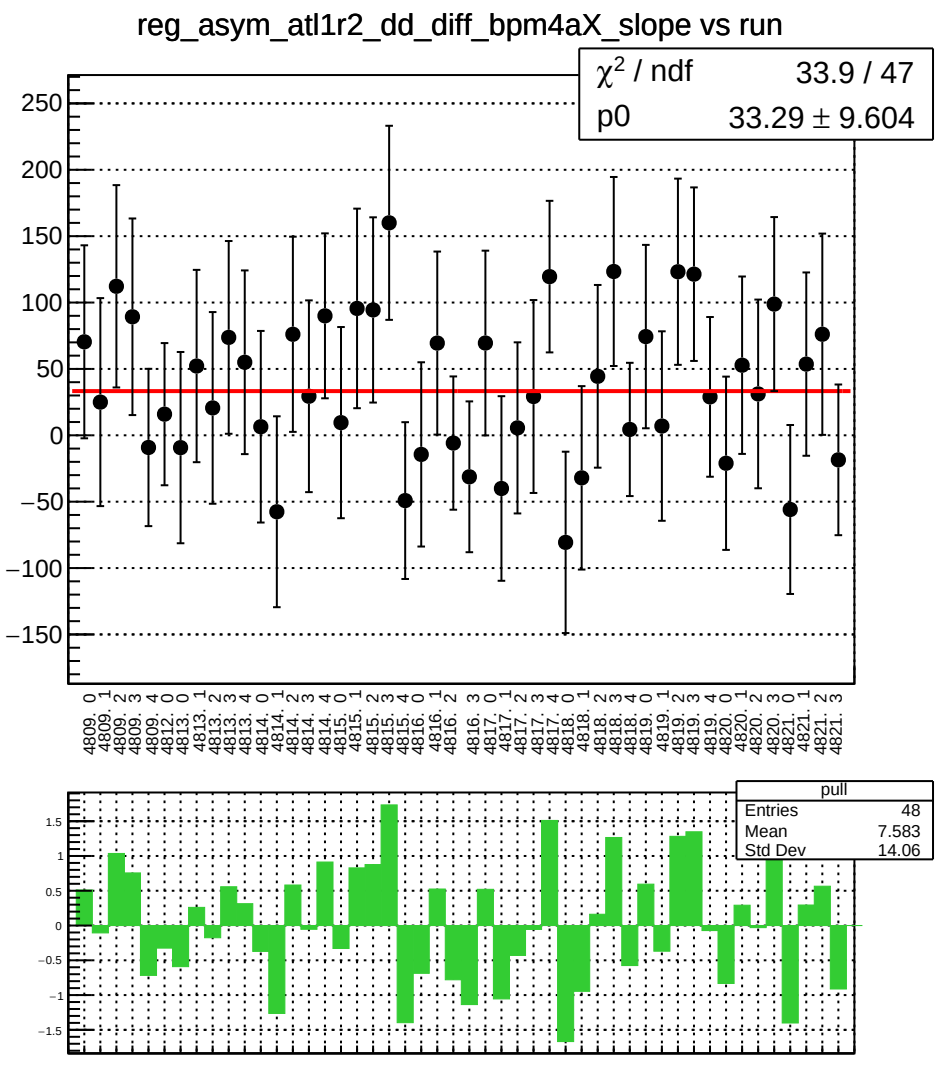

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 43.95 / 47
p0 11.98 ± 1.838
pull
Entries 48
Mean −15.16
Std Dev 22.4
pull1D
Entries 48
Mean −0.02946
Std Dev 0.9564

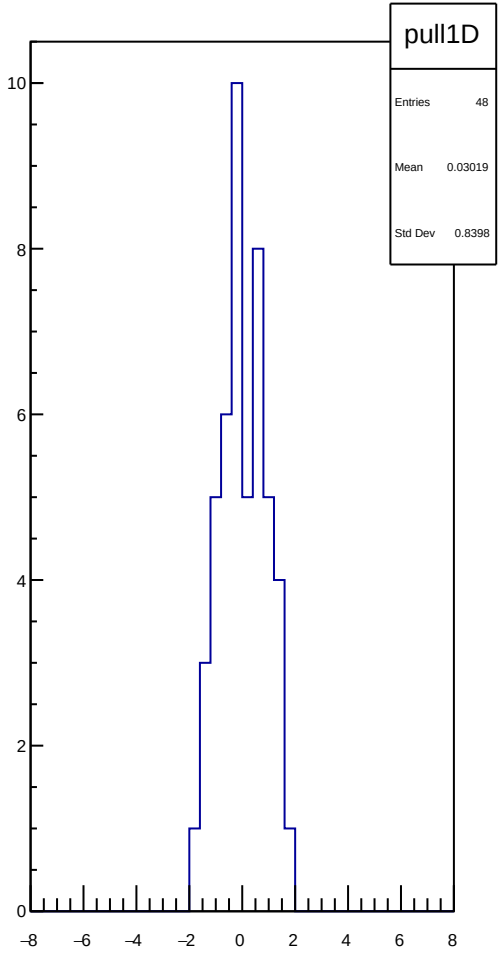

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 37.63 / 47
p0 11.16 ± 13.63
pull
Entries 48
Mean 326.9
Std Dev 302.5

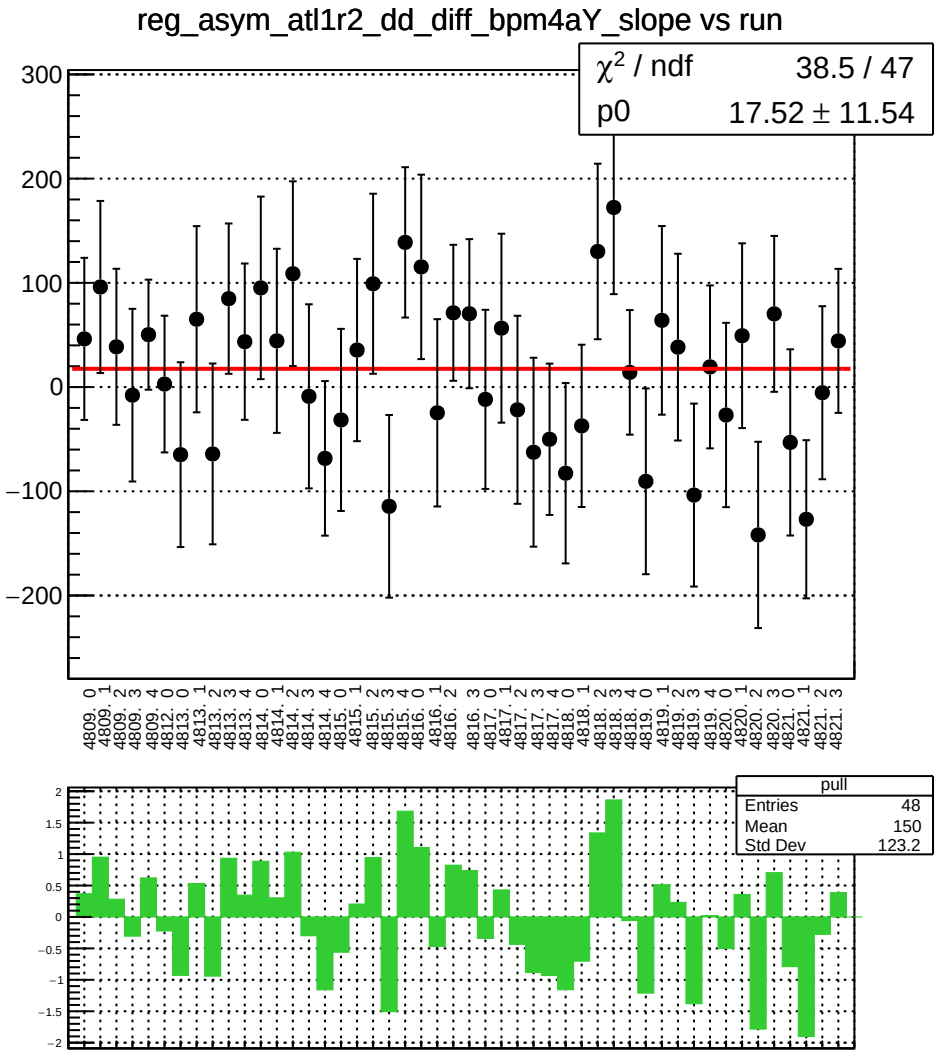

pull1D
Entries 48
Mean −0.007887
Std Dev 0.8853

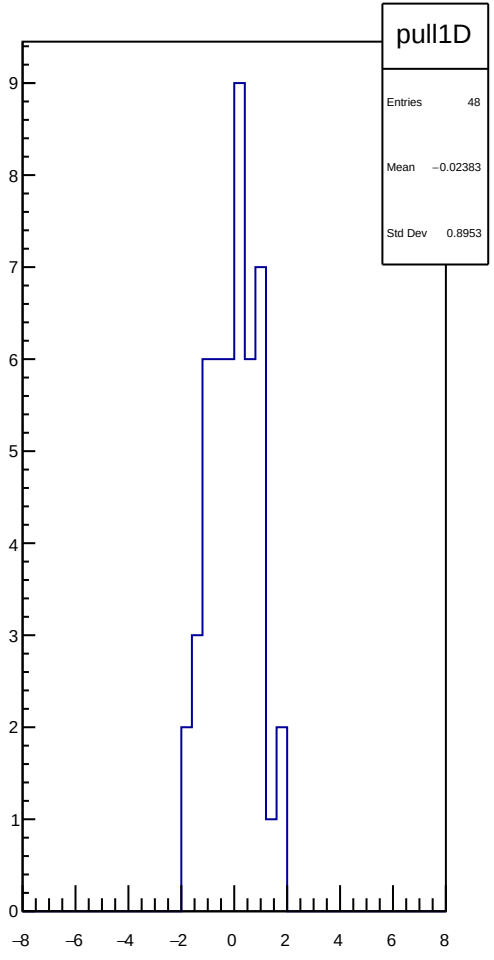

reg_asym_atl1r2_avg_diff_bpm11X_slope vs run
χ² / ndf 46.06 / 47
p0 −5.222 ± 2.371
pull
Entries 48
Mean 37.22
Std Dev 24.8

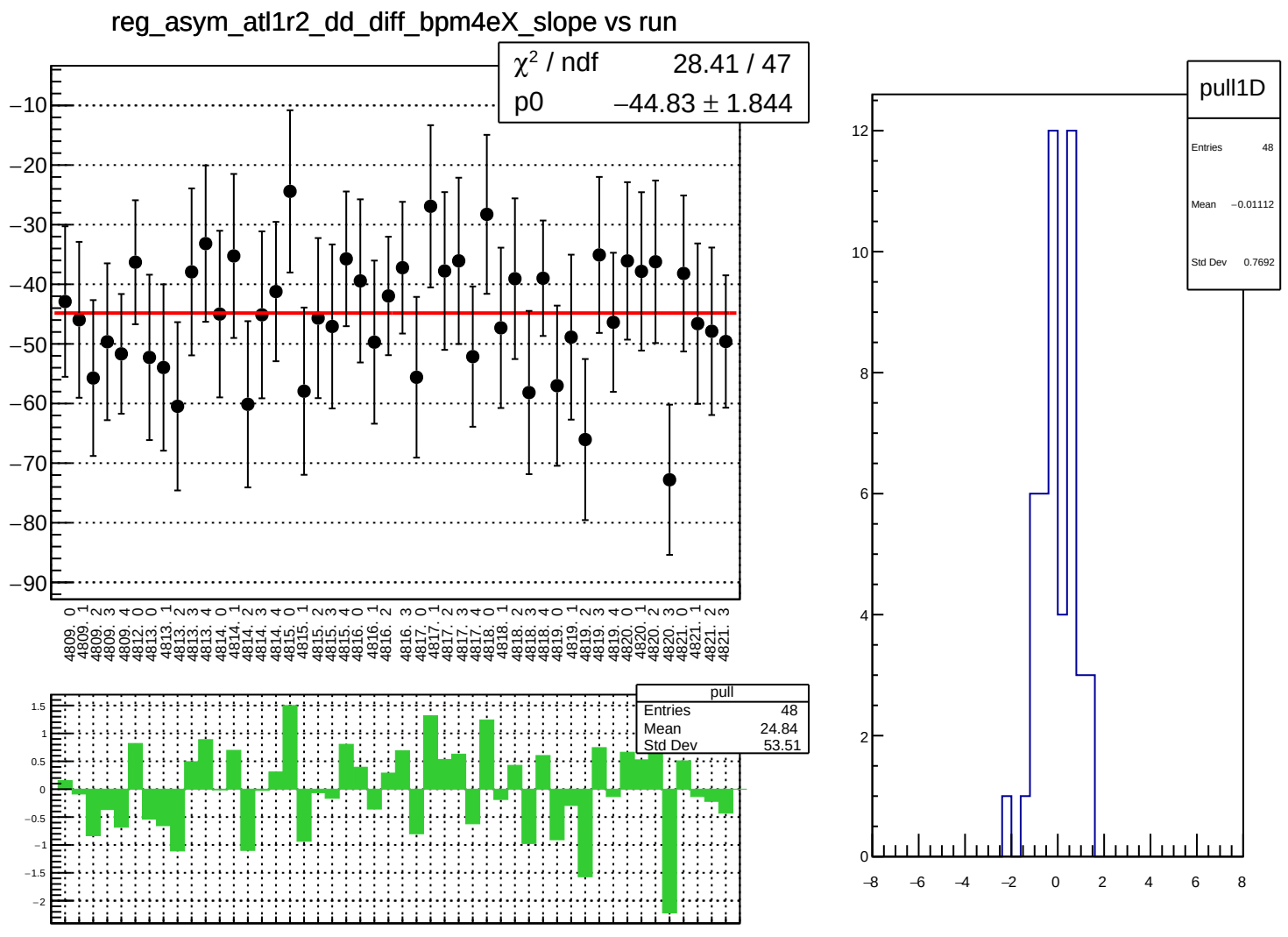

pull1D
Entries 48
Mean −0.01735
Std Dev 0.9794

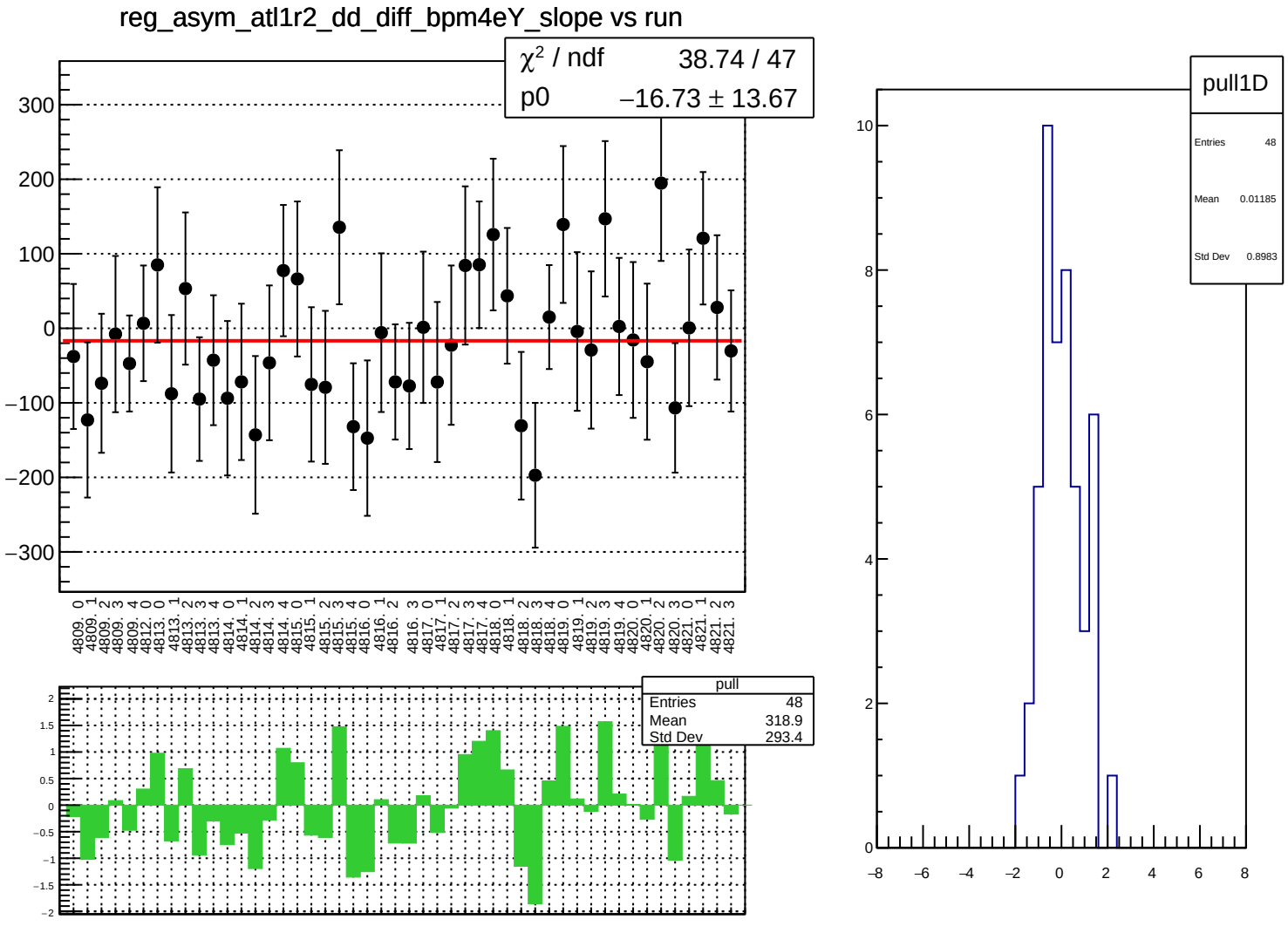

reg_asym_atl1r2_dd_diff_bpm4aX_slope vs run
χ² / ndf 33.9 / 47
p0 33.29 ± 9.604
pull
Entries 48
Mean 7.583
Std Dev 14.06

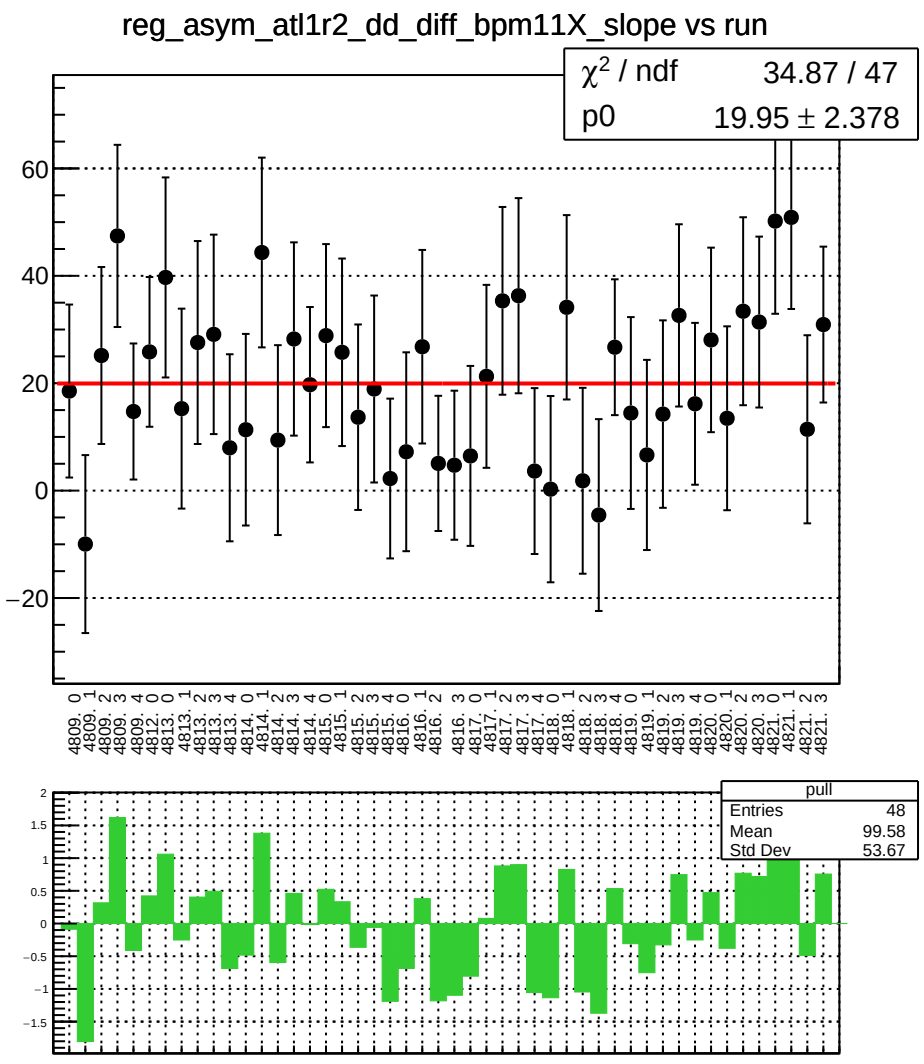

pull1D
Entries 48
Mean 0.03019
Std Dev 0.8398

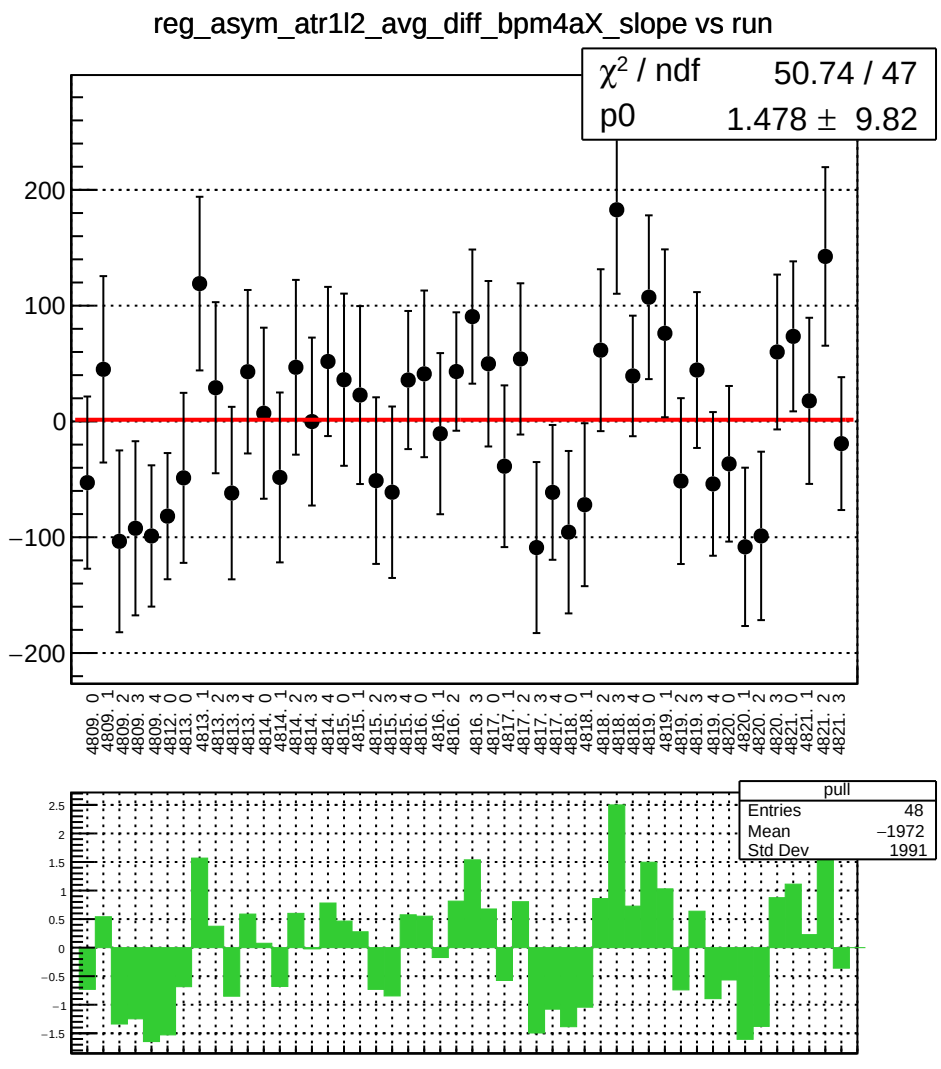

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 38.5 / 47
p0 17.52 ± 11.54
pull
Entries 48
Mean 150
Std Dev 123.2

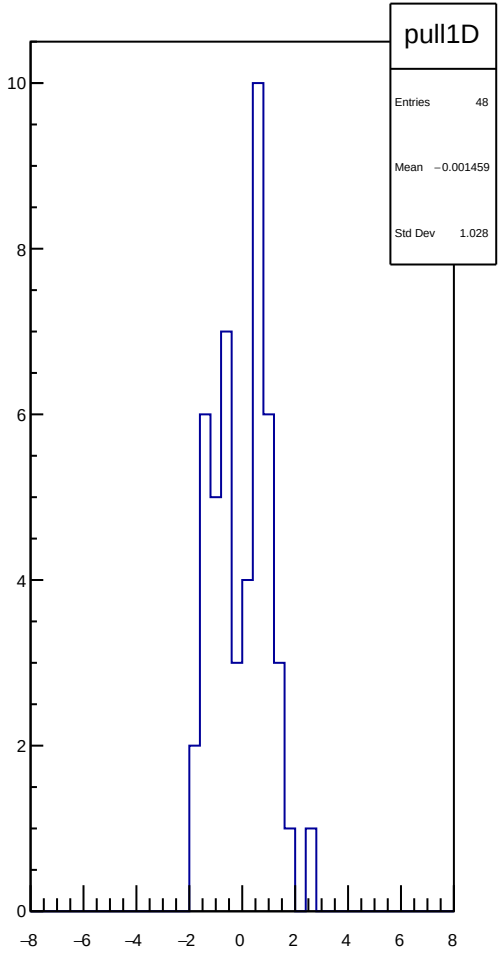

pull1D
Entries 48
Mean −0.02383
Std Dev 0.8953

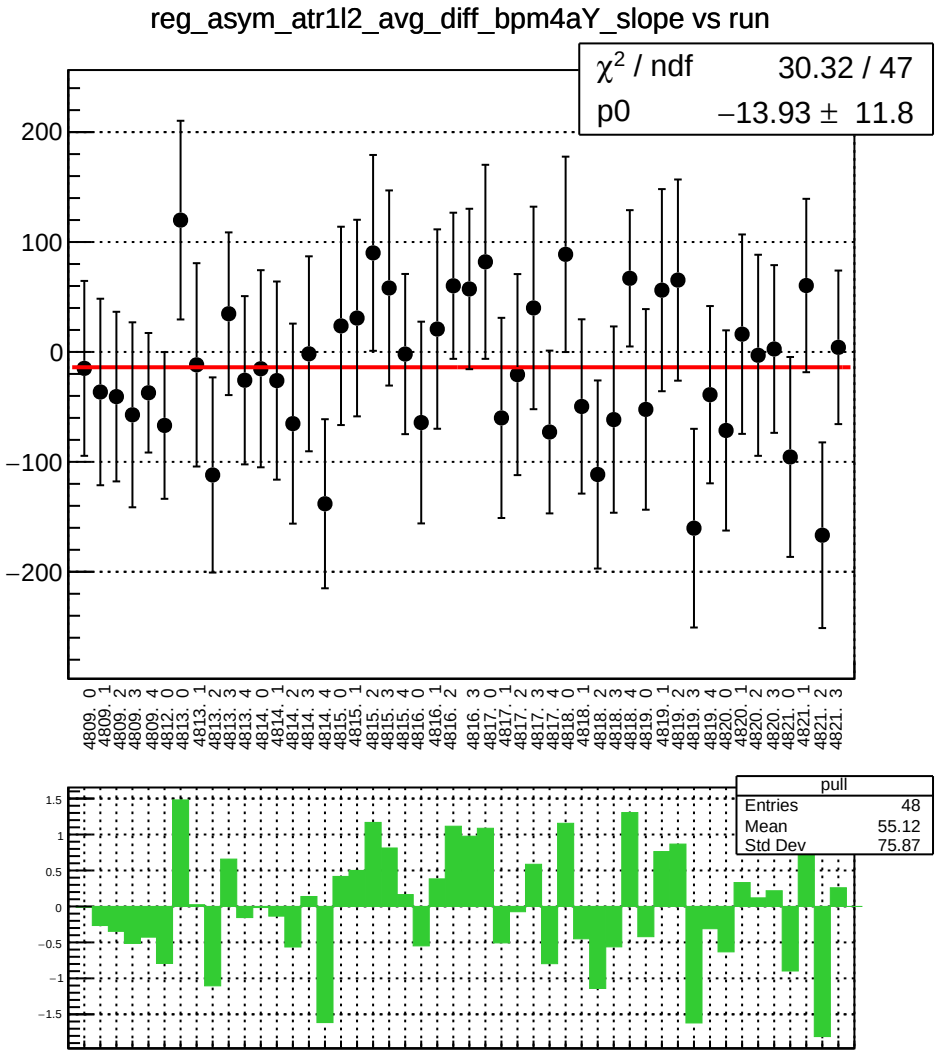

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 28.41 / 47
p0 −44.83 ± 1.844
pull
Entries 48
Mean 24.84
Std Dev 53.51
pull1D
Entries 48
Mean −0.01112
Std Dev 0.7692

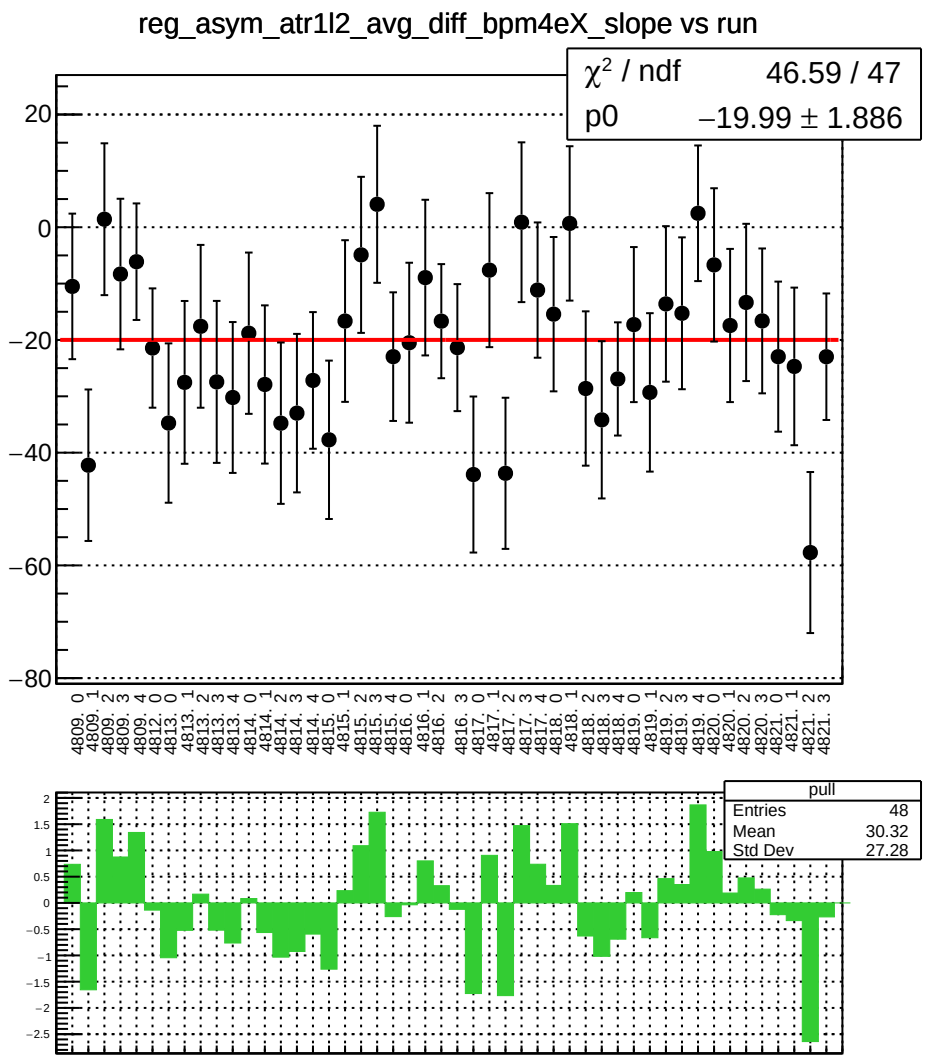

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 38.74 / 47
p0 −16.73 ± 13.67
300
200
100
0
−100
−200
−300
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 318.9
Std Dev 293.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 48
Mean 0.01185
Std Dev 0.8983
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

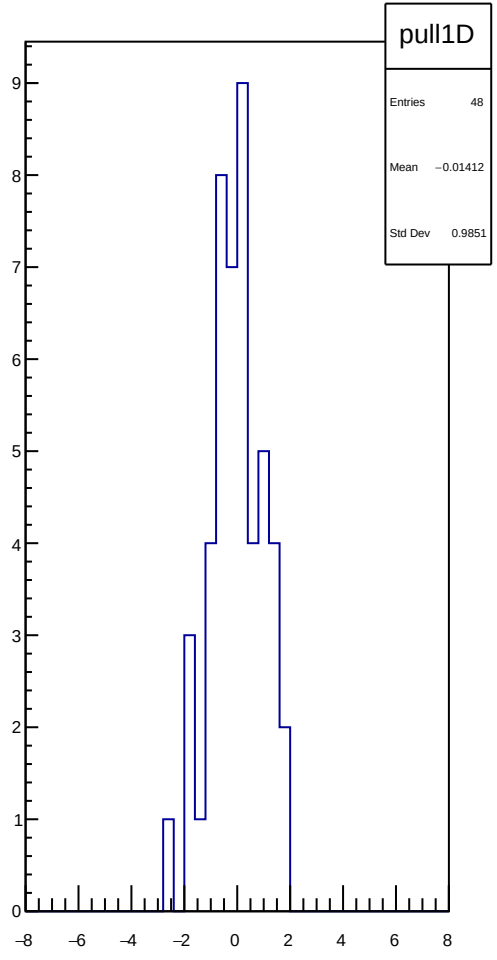

reg_asym_atl1r2_dd_diff_bpm11X_slope vs run
χ² / ndf 34.87 / 47
p0 19.95 ± 2.378
60
40
20
0
−20
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 99.58
Std Dev 53.67
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 48
Mean 0.01698
Std Dev 0.8522
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

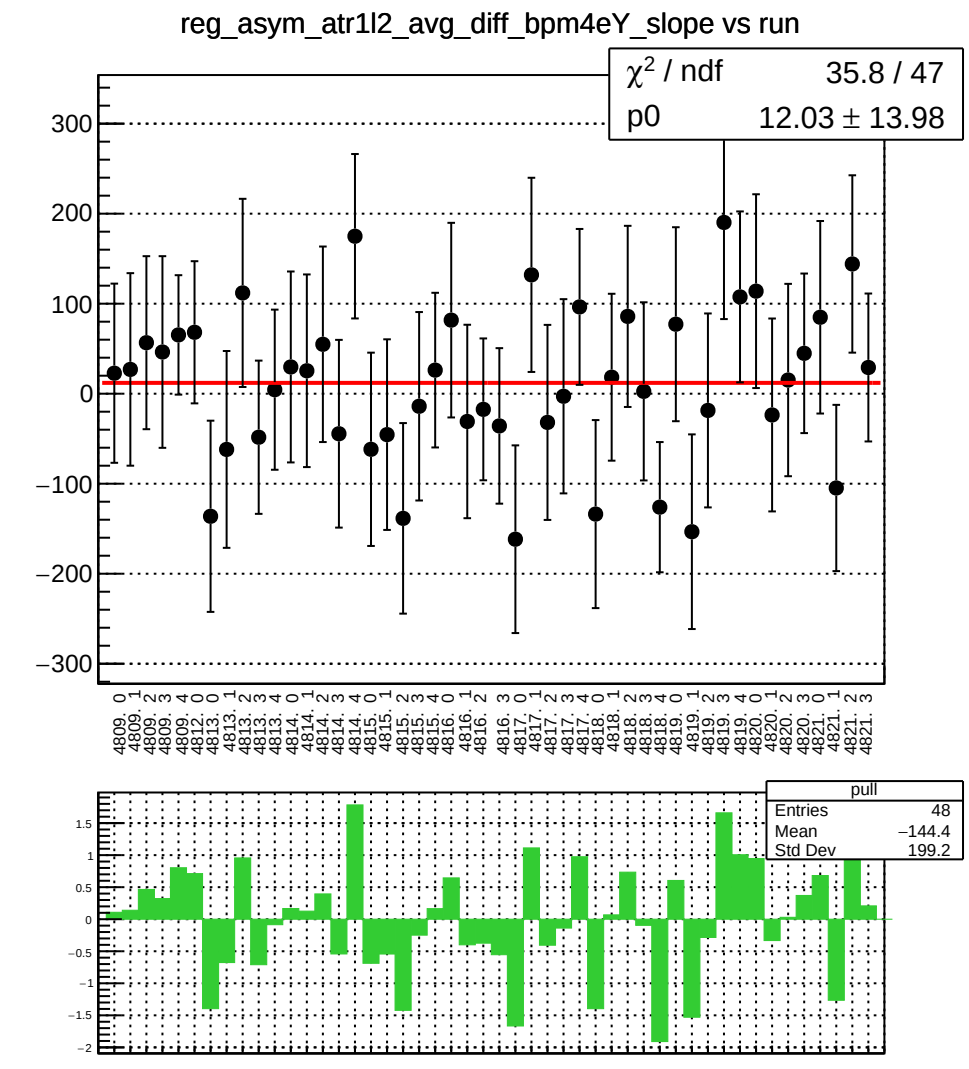

reg_asym_atr1l2_avg_diff_bpm4aX_slope vs run
χ² / ndf 50.74 / 47
p0 1.478 ± 9.82
200
100
0
−100
−200
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean −1972
Std Dev 1991
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

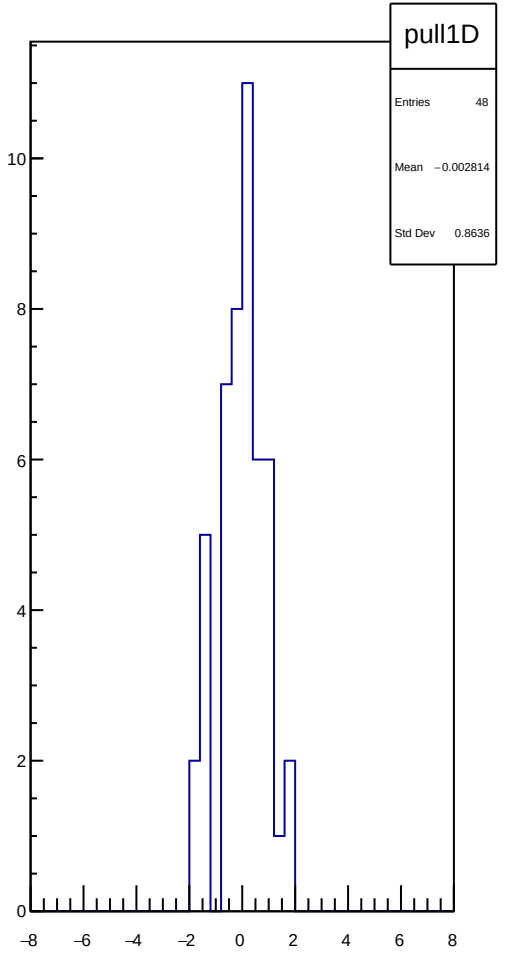

pull1D
Entries 48
Mean −0.001459
Std Dev 1.028
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

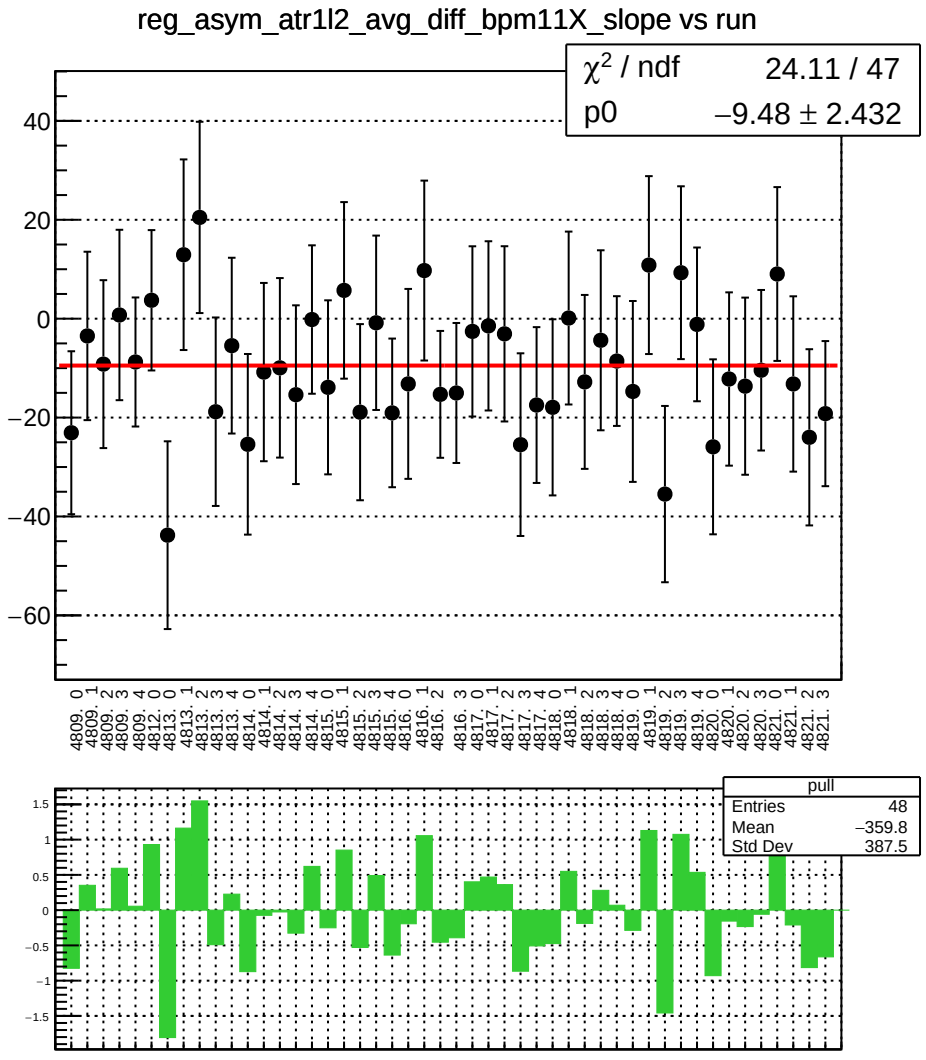

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 30.32 / 47
p0 −13.93 ± 11.8
200
100
0
−100
−200
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 55.12
Std Dev 75.87
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 48
Mean −0.004861
Std Dev 0.7948
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

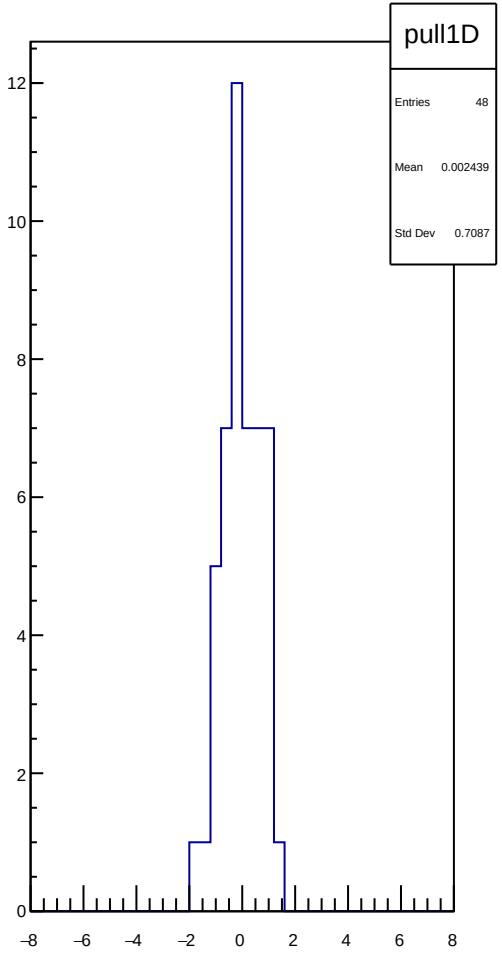

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 46.59 / 47
p0 −19.99 ± 1.886
pull
Entries 48
Mean 30.32
Std Dev 27.28

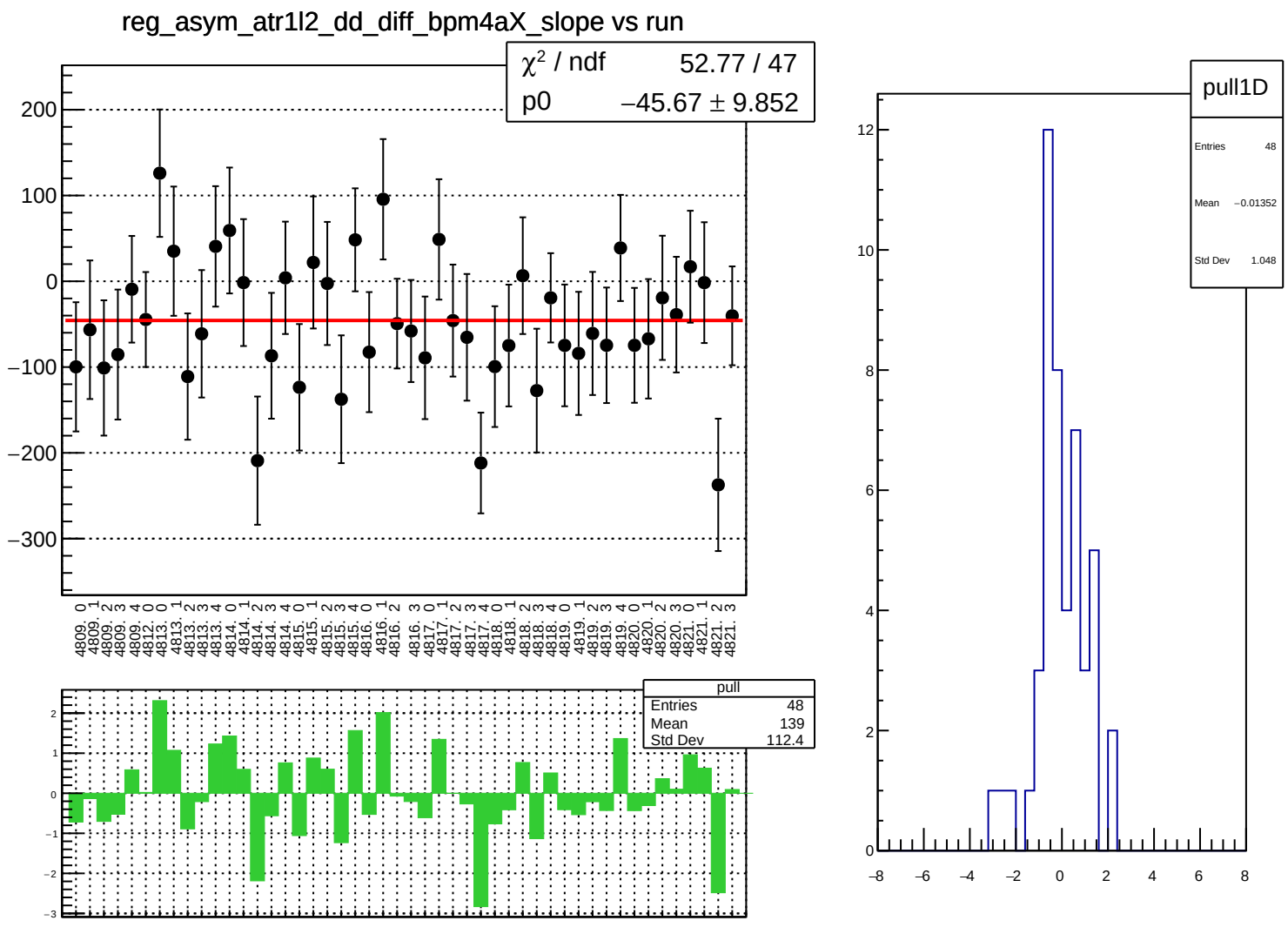

pull1D
Entries 48
Mean −0.01412
Std Dev 0.9851

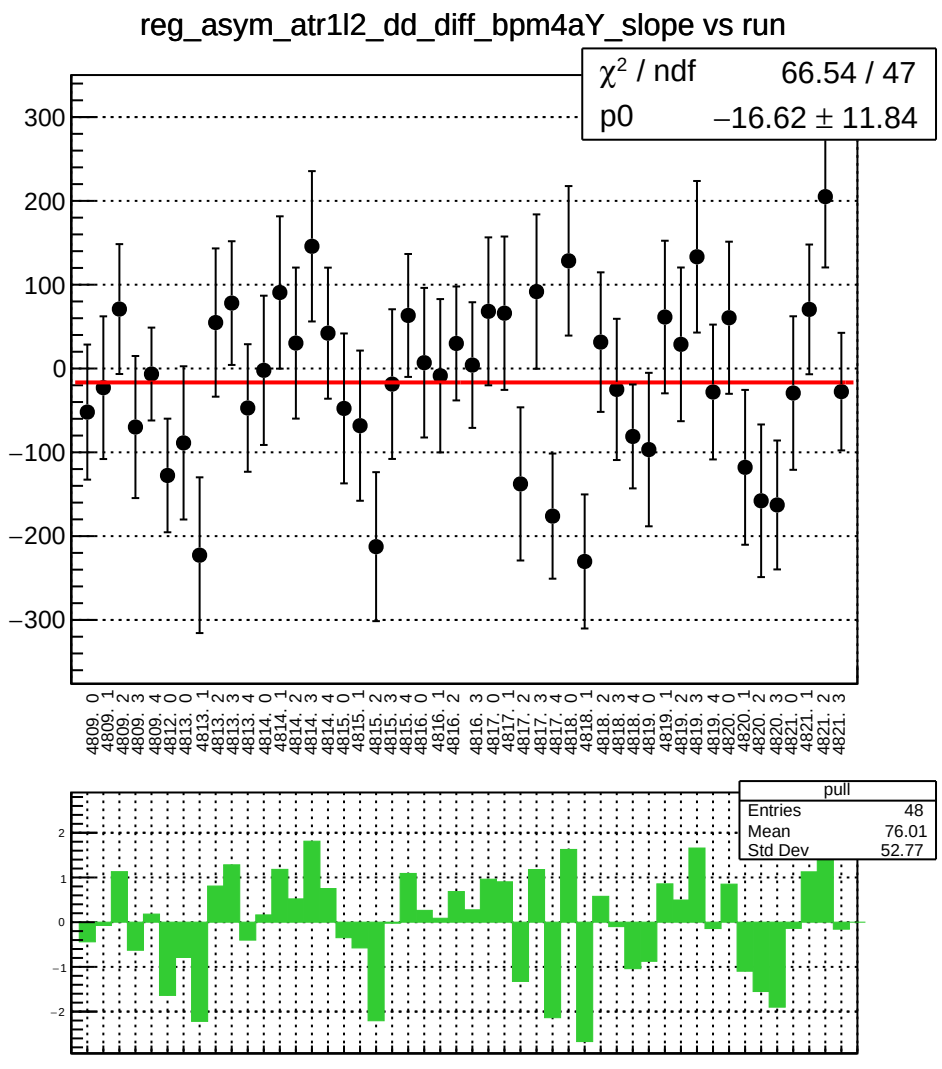

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 35.8 / 47
p0 12.03 ± 13.98
300
200
100
0
−100
−200
−300
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean −144.4
Std Dev 199.2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

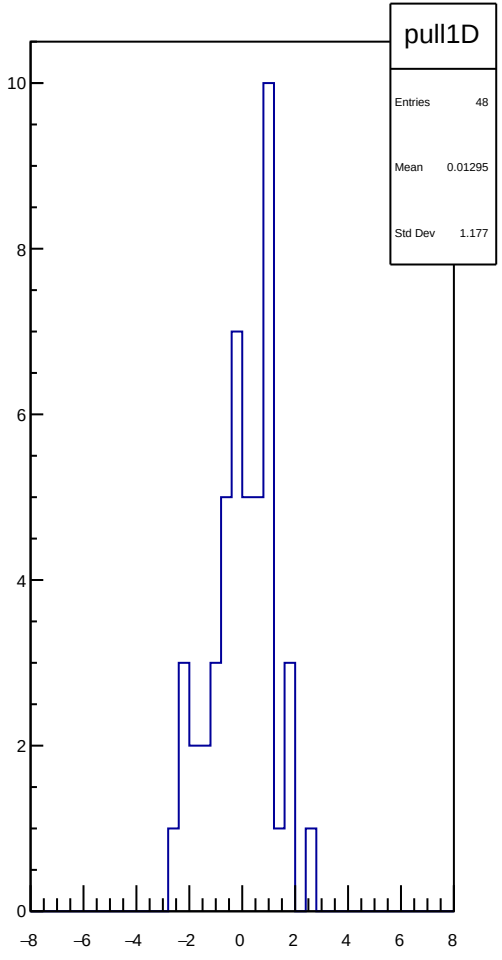

pull1D
Entries 48
Mean −0.002814
Std Dev 0.8636
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

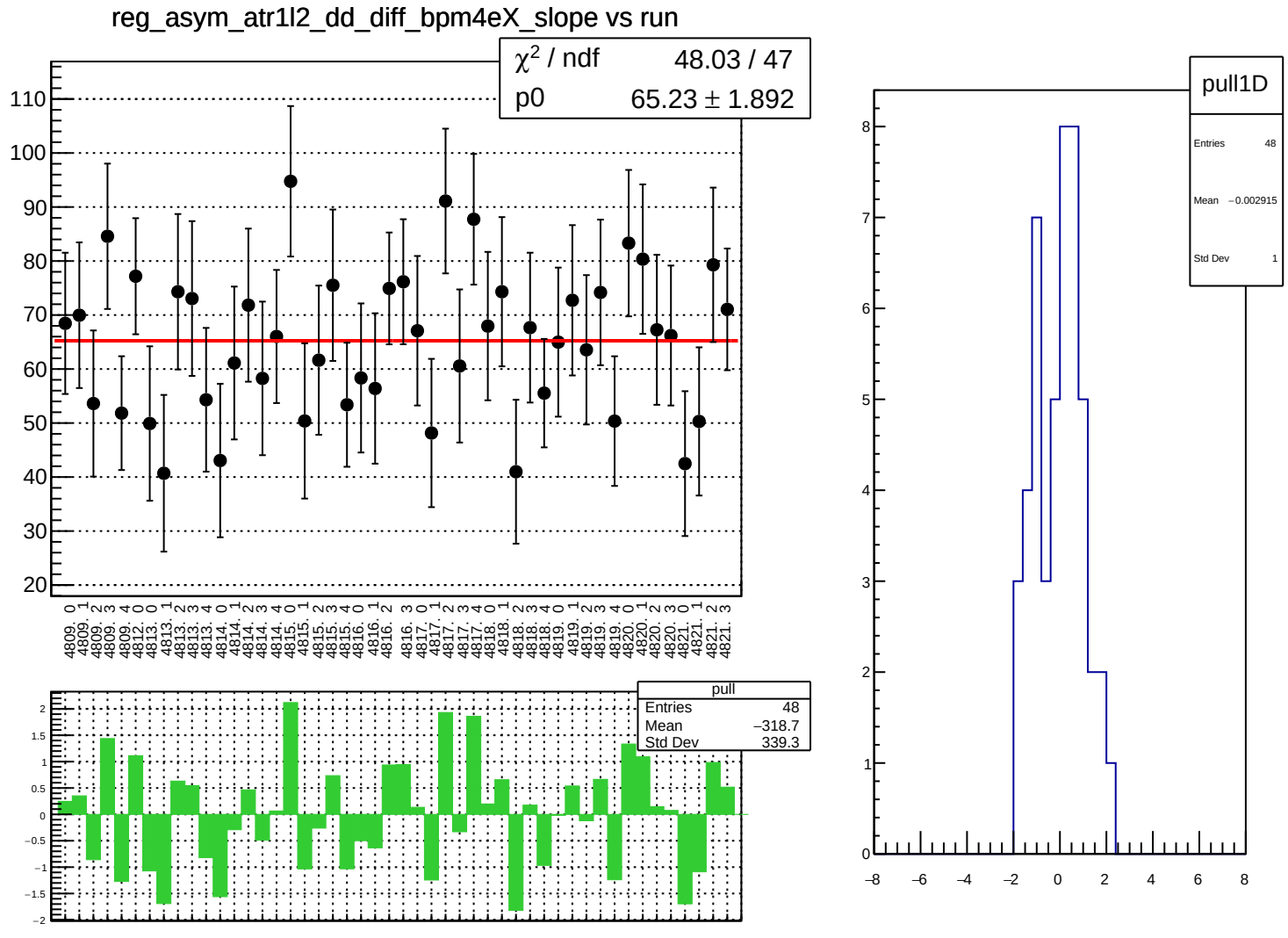

reg_asym_atr1l2_avg_diff_bpm11X_slope vs run
χ² / ndf 24.11 / 47
p0 −9.48 ± 2.432
pull
Entries 48
Mean −359.8
Std Dev 387.5

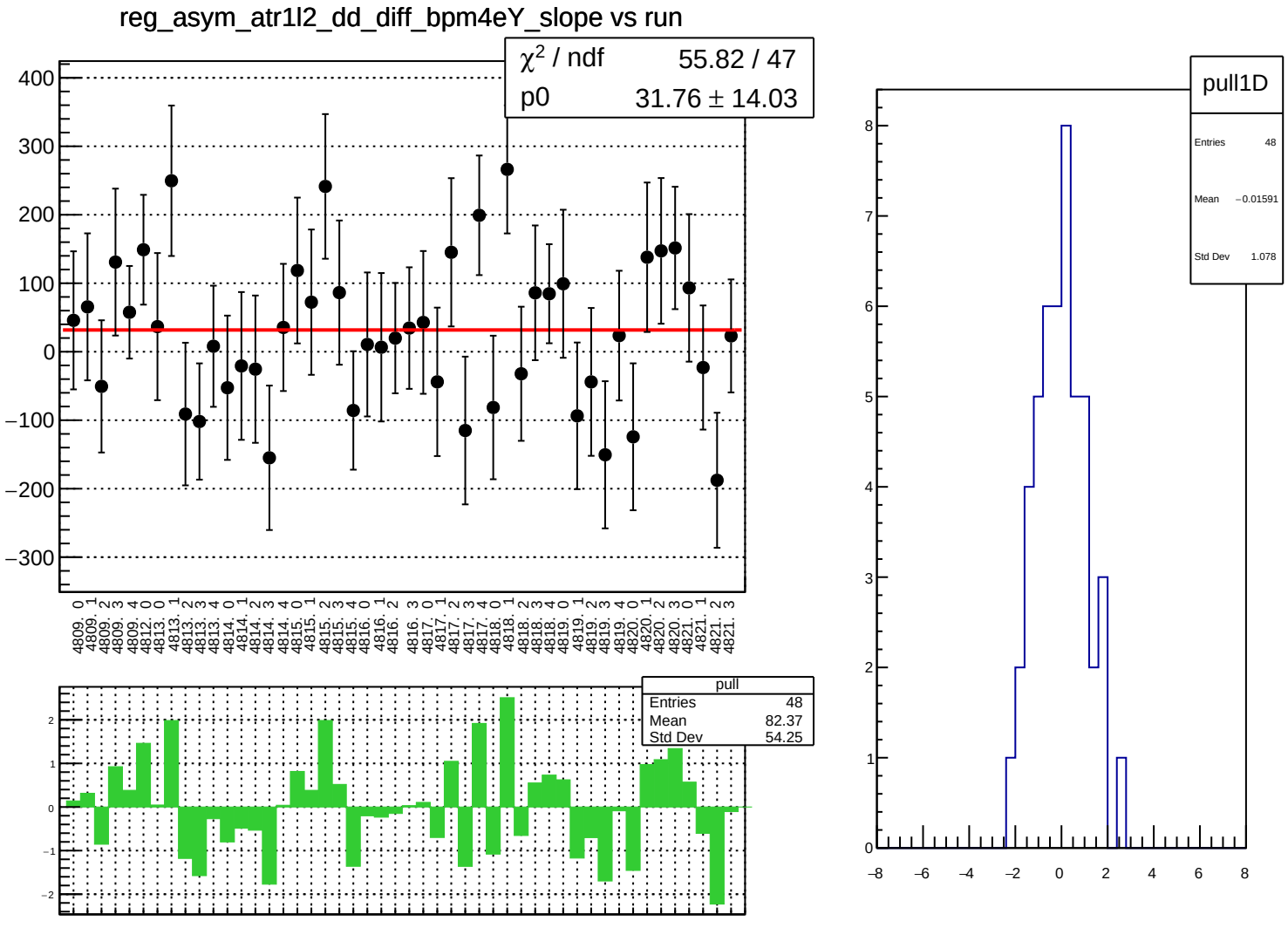

pull1D
Entries 48
Mean 0.002439
Std Dev 0.7087

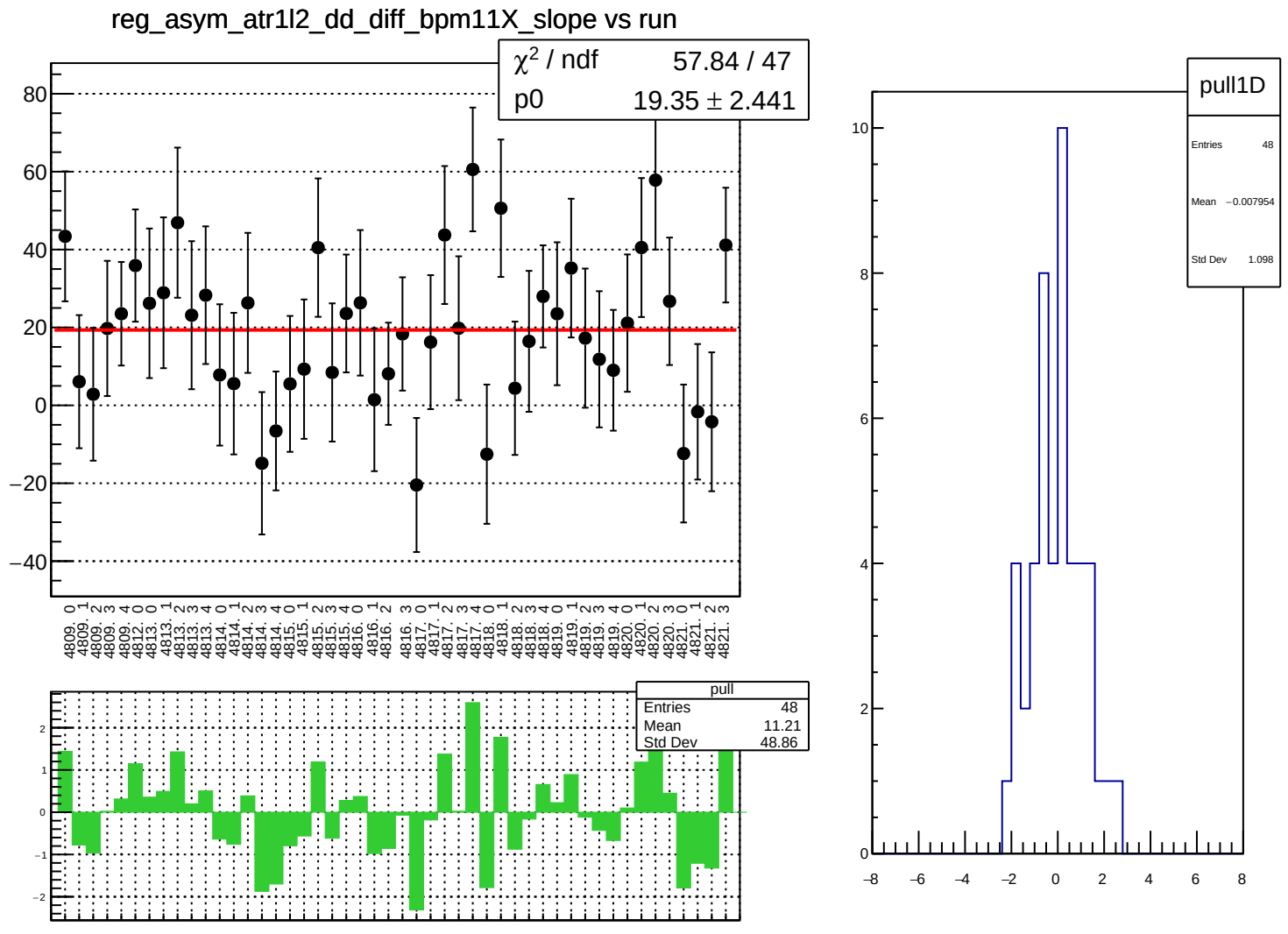

reg_asym_atr1l2_dd_diff_bpm4aX_slope vs run
χ² / ndf 52.77 / 47
p0 −45.67 ± 9.852
200
100
0
−100
−200
−300
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 139
Std Dev 112.4
2
1
0
−1
−2
−3
pull1D
Entries 48
Mean −0.01352
Std Dev 1.048
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

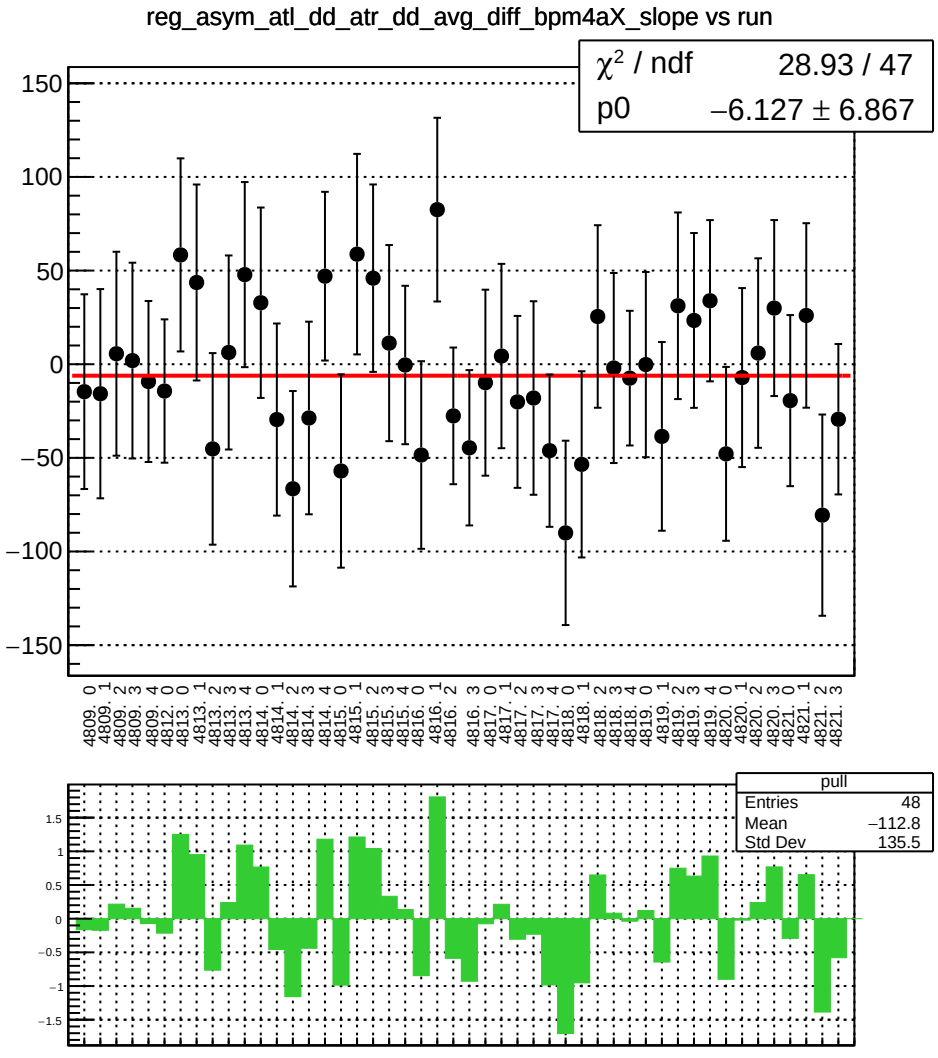

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 66.54 / 47
p0 −16.62 ± 11.84
300
200
100
0
−100
−200
−300
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 76.01
Std Dev 52.77
2
1
0
−1
−2

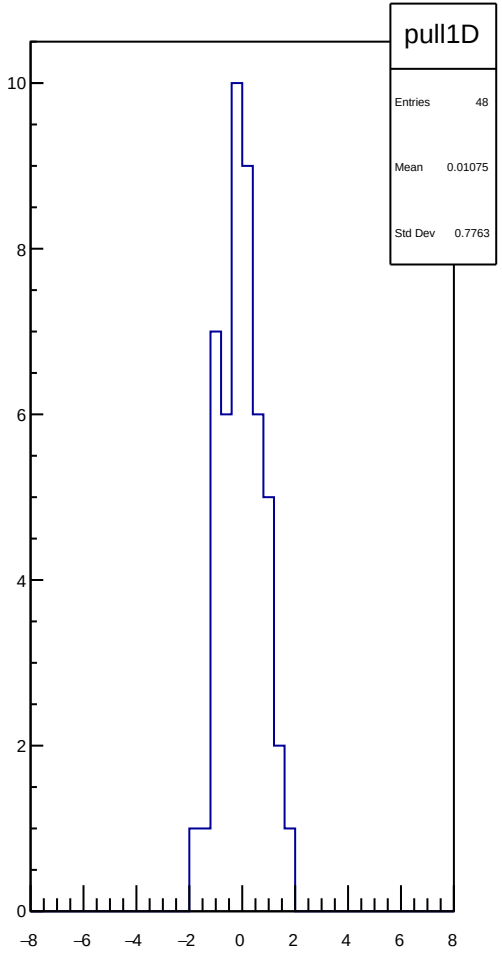

pull1D
Entries 48
Mean 0.01295
Std Dev 1.177
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

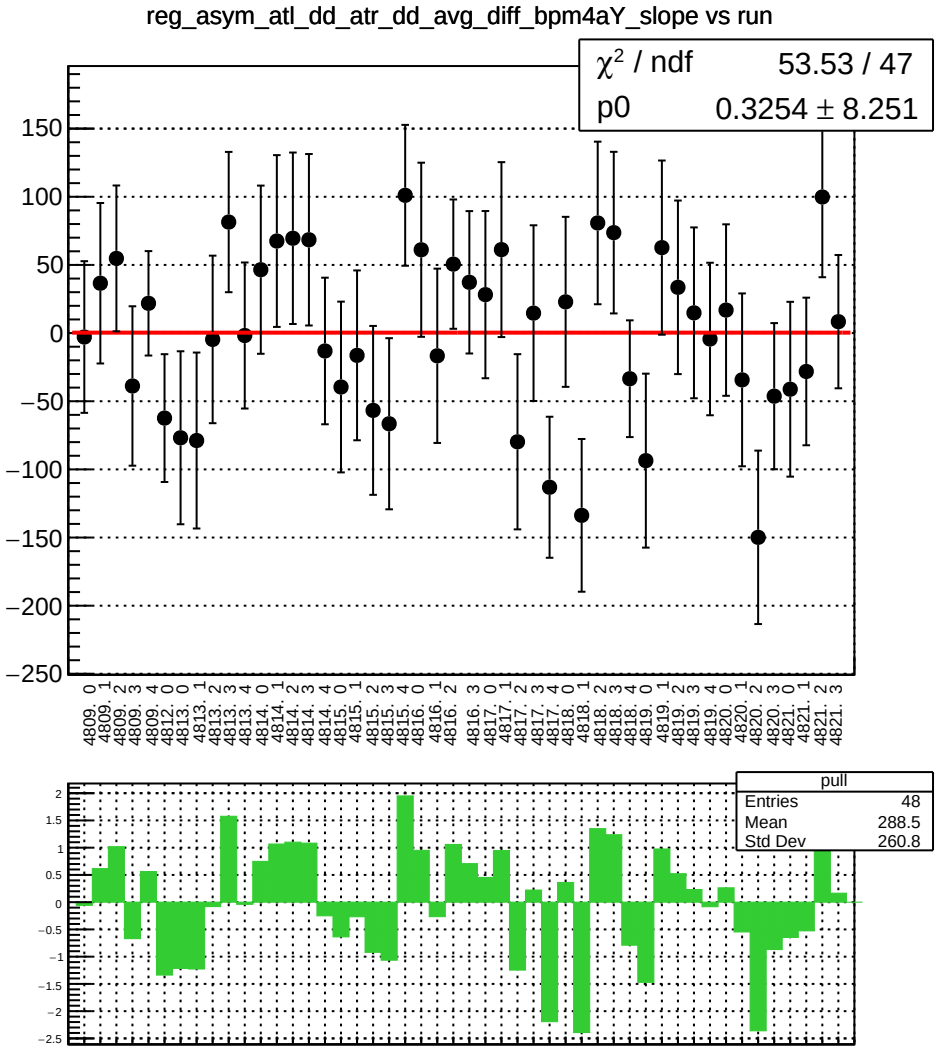

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 48.03 / 47
p0 65.23 ± 1.892
pull
Entries 48
Mean −318.7
Std Dev 339.3
pull1D
Entries 48
Mean −0.002915
Std Dev 1

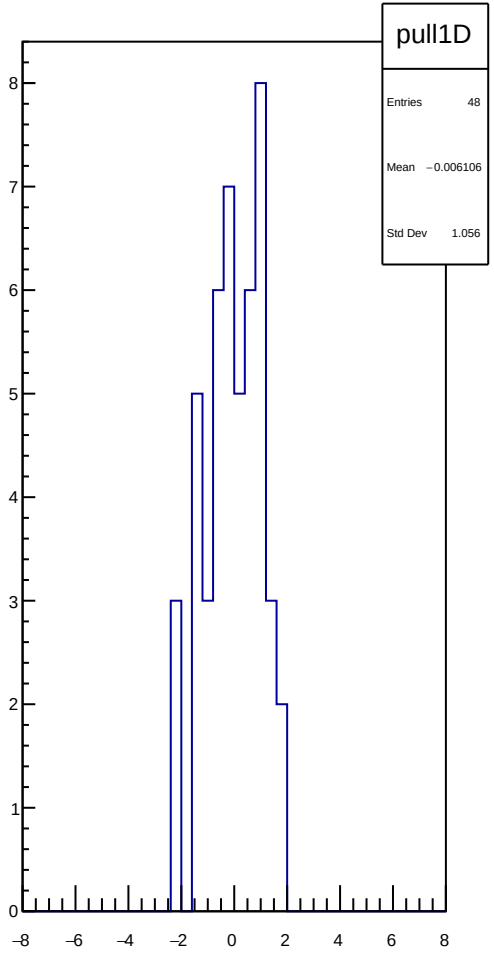

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 55.82 / 47
p0 31.76 ± 14.03
pull
Entries 48
Mean 82.37
Std Dev 54.25
pull1D
Entries 48
Mean −0.01591
Std Dev 1.078

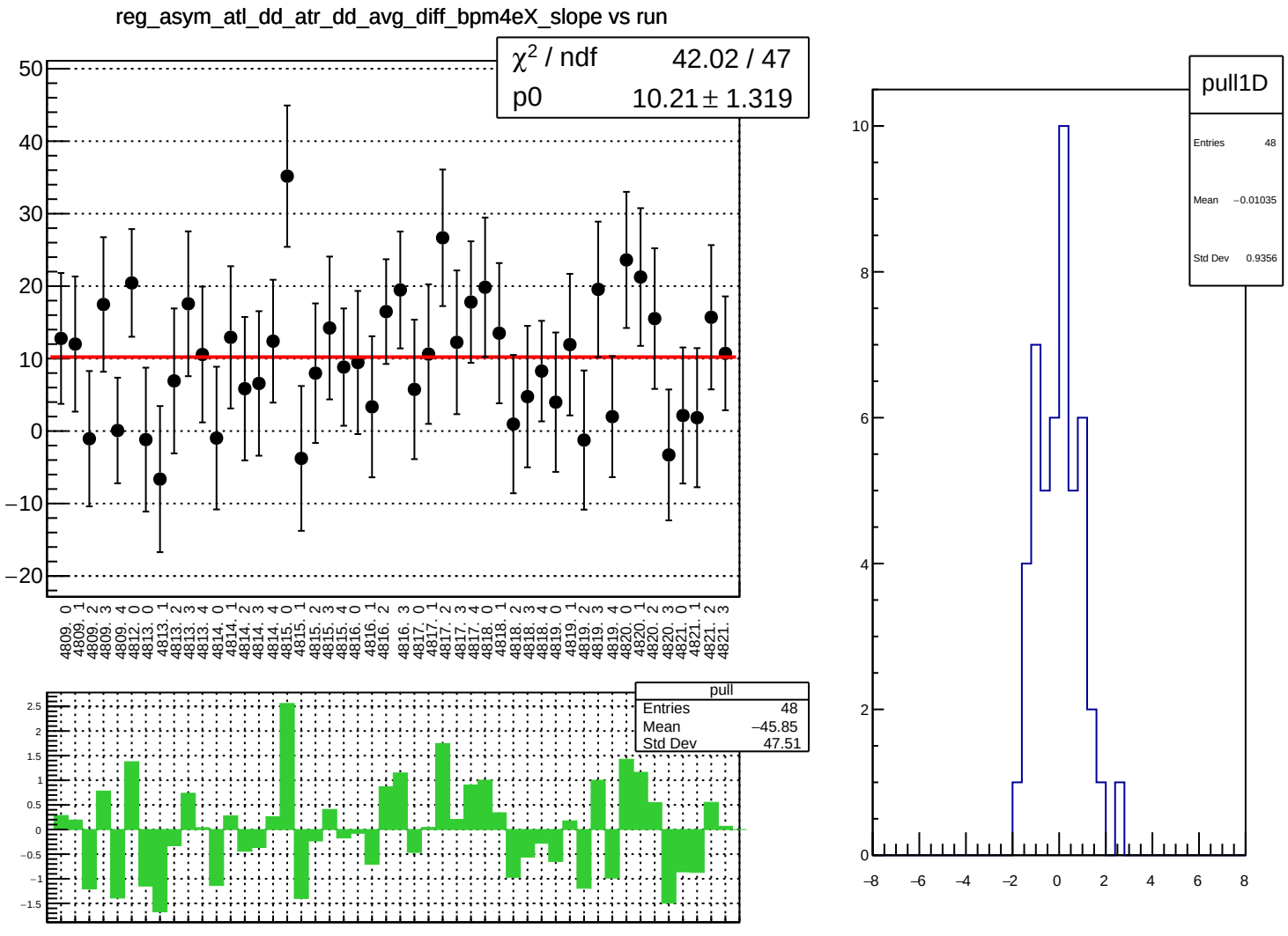

reg_asym_atr1l2_dd_diff_bpm11X_slope vs run
χ² / ndf 57.84 / 47
p0 19.35 ± 2.441
pull
Entries 48
Mean 11.21
Std Dev 48.86
pull1D
Entries 48
Mean −0.007954
Std Dev 1.098

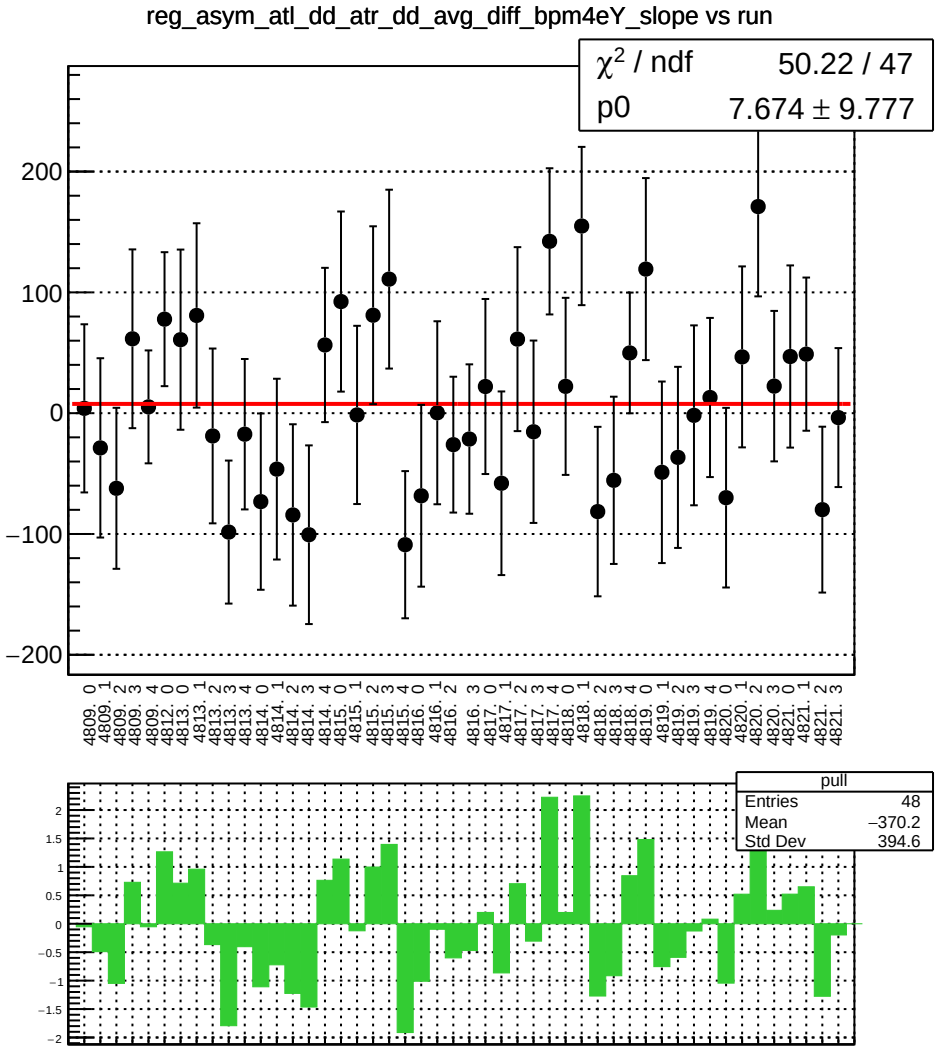

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aX_slope vs run
χ² / ndf 28.93 / 47
p0 −6.127 ± 6.867
150
100
50
0
−50
−100
−150
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean −112.8
Std Dev 135.5
1.5
1
0.5
0
−0.5
−1
−1.5

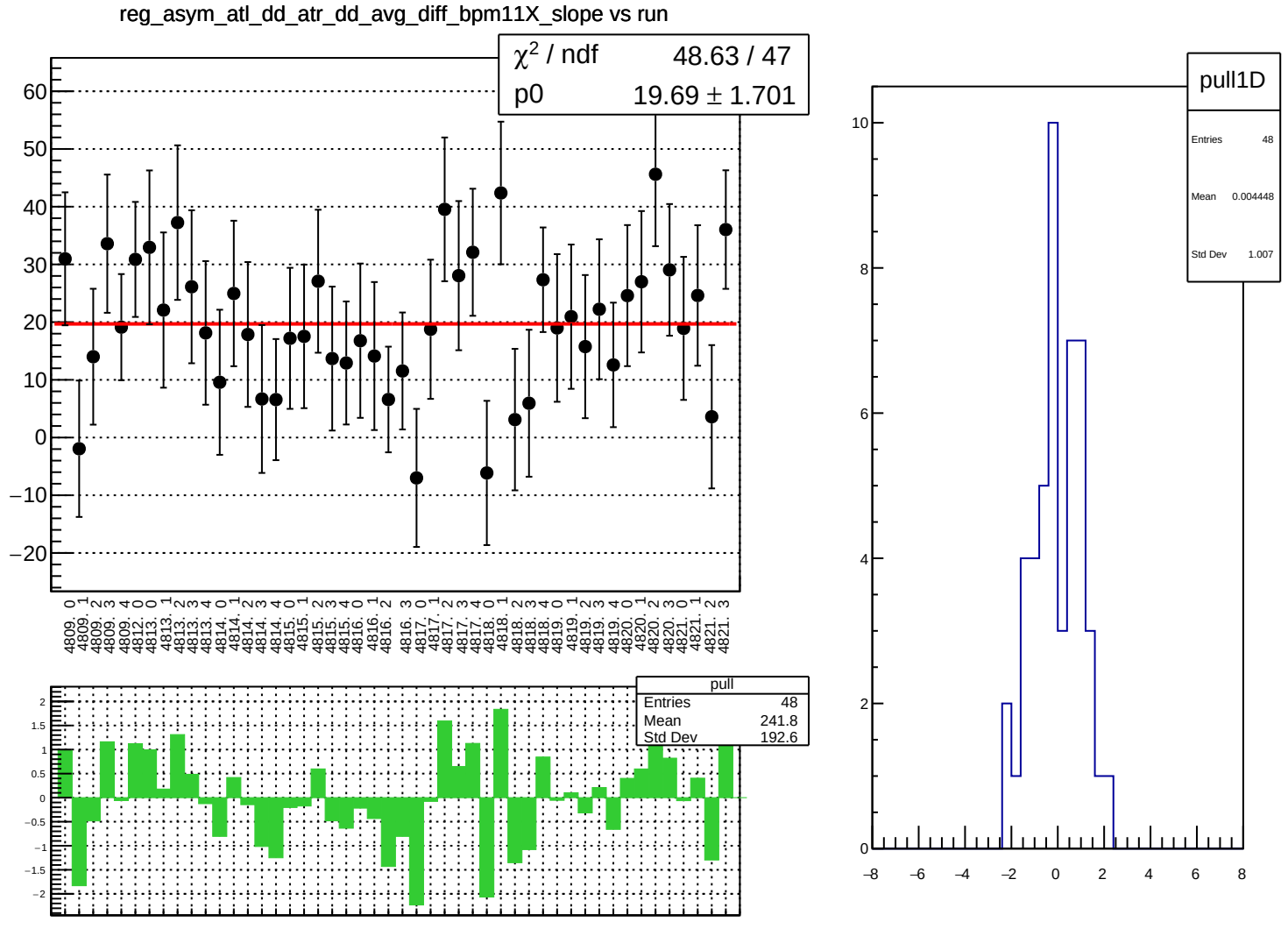

pull1D
Entries 48
Mean 0.01075
Std Dev 0.7763
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

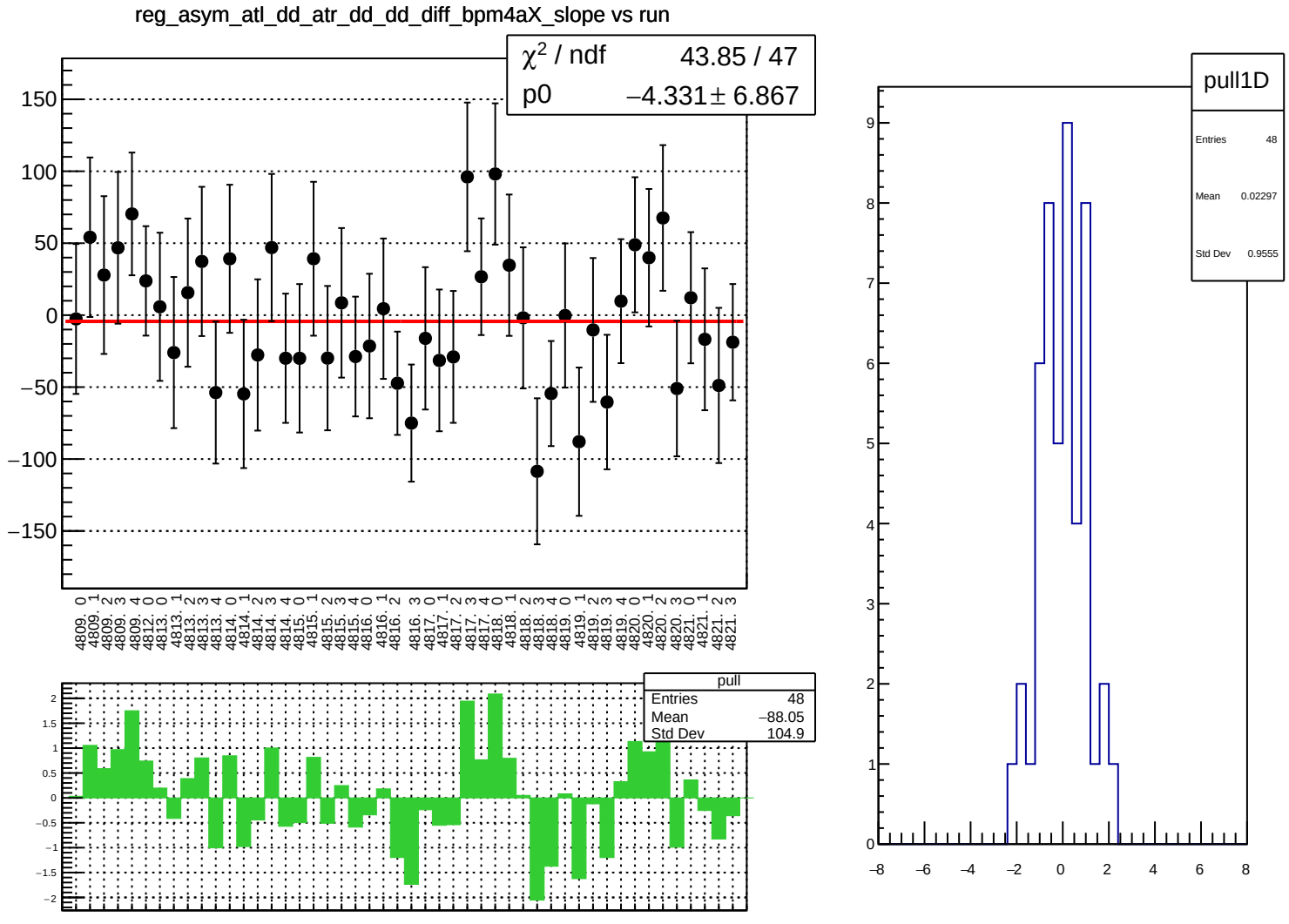

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 53.53 / 47
p0 0.3254 ± 8.251
150
100
50
0
−50
−100
−150
−200
−250
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 288.5
Std Dev 260.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

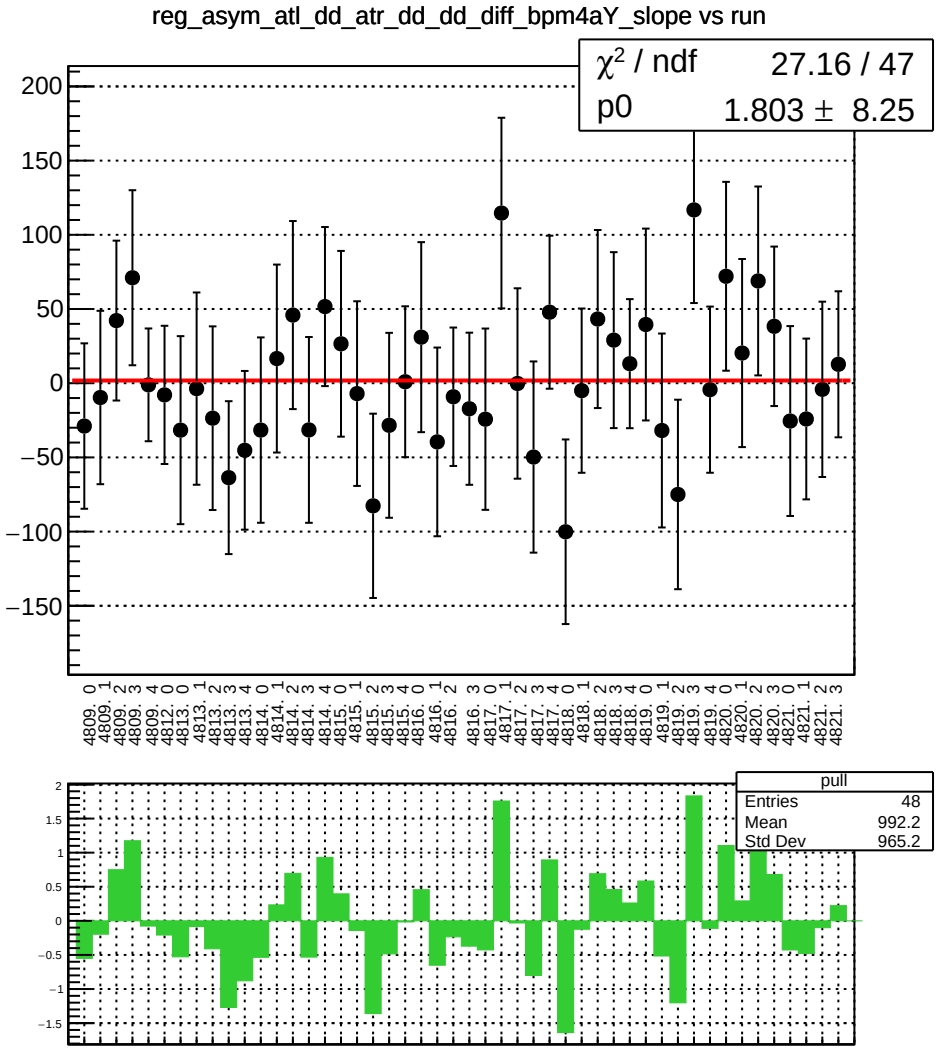

pull1D
Entries 48
Mean −0.006106
Std Dev 1.056
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

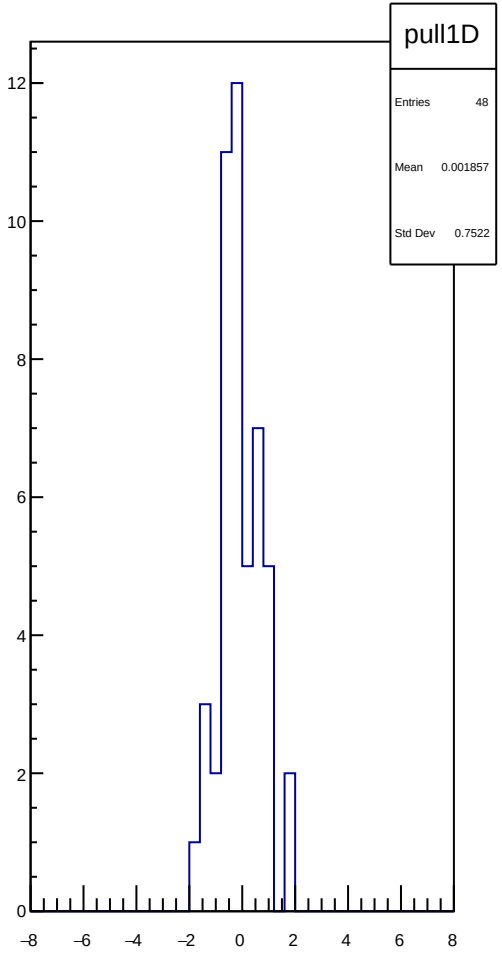

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 42.02 / 47
p0 10.21 ± 1.319
pull
Entries 48
Mean −45.85
Std Dev 47.51
pull1D
Entries 48
Mean −0.01035
Std Dev 0.9356

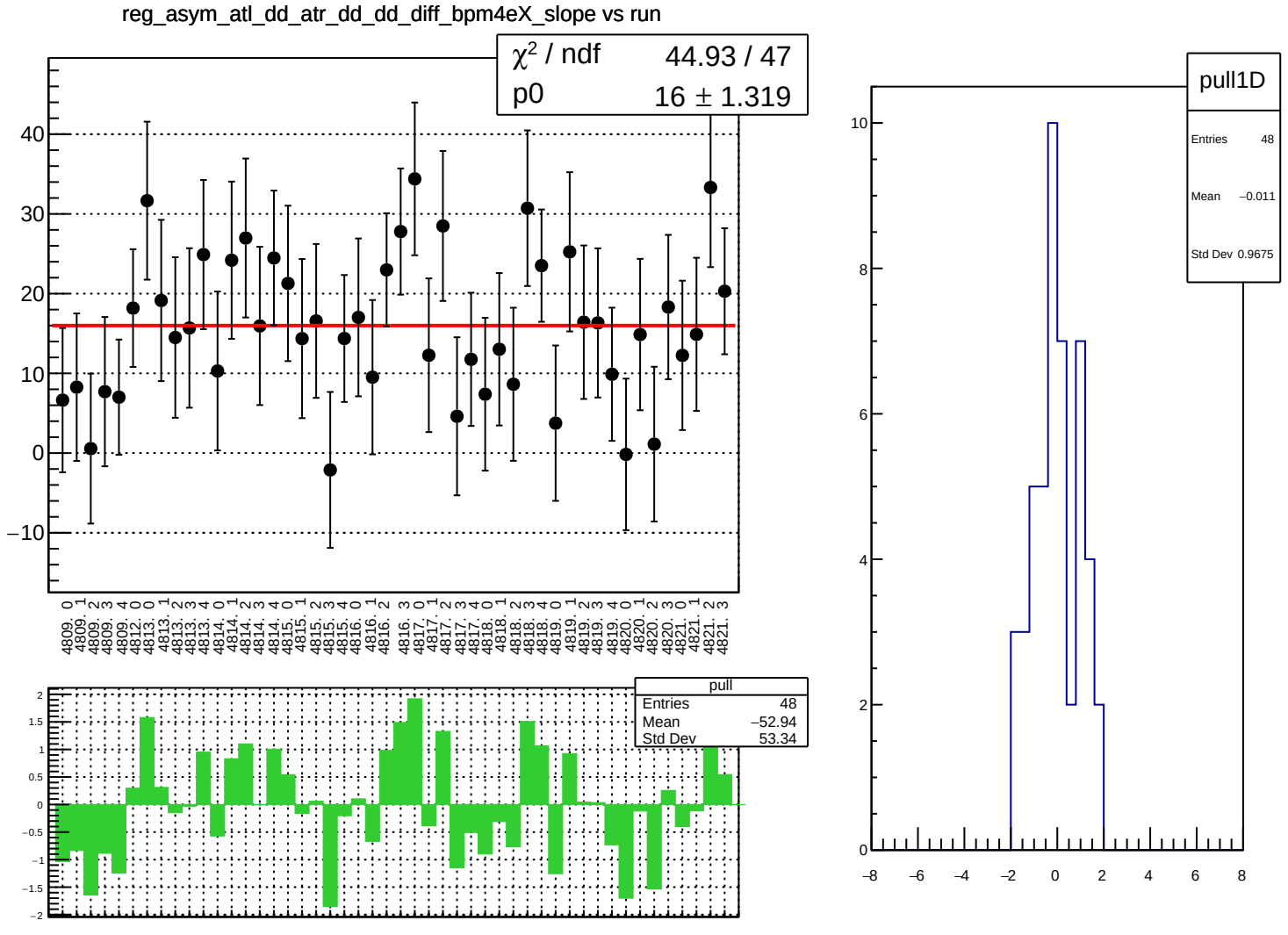

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 50.22 / 47
p0 7.674 ± 9.777
200
100
0
−100
−200
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean −370.2
Std Dev 394.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 48
Mean −0.004501
Std Dev 1.023
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

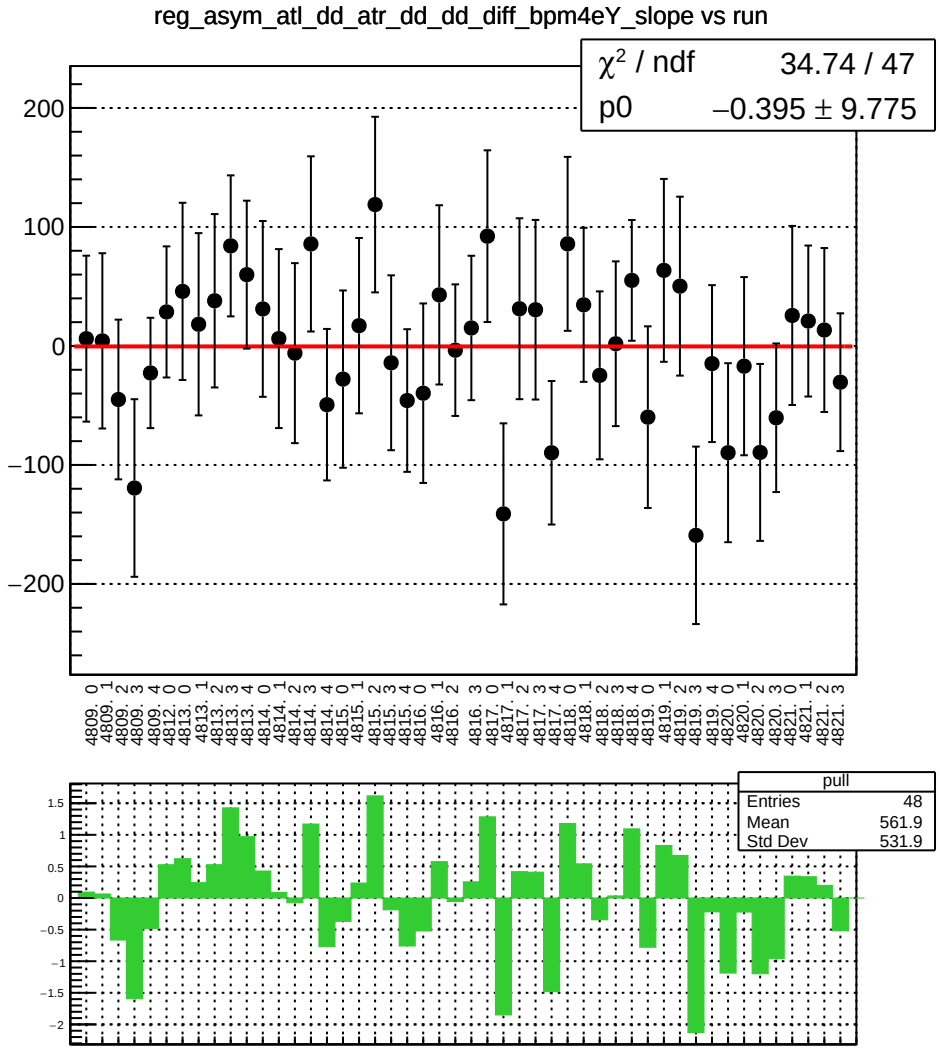

reg_asym_atl_dd_atr_dd_avg_diff_bpm11X_slope vs run
χ² / ndf 48.63 / 47
p0 19.69 ± 1.701
pull
Entries 48
Mean 241.8
Std Dev 192.6
pull1D
Entries 48
Mean 0.004448
Std Dev 1.007

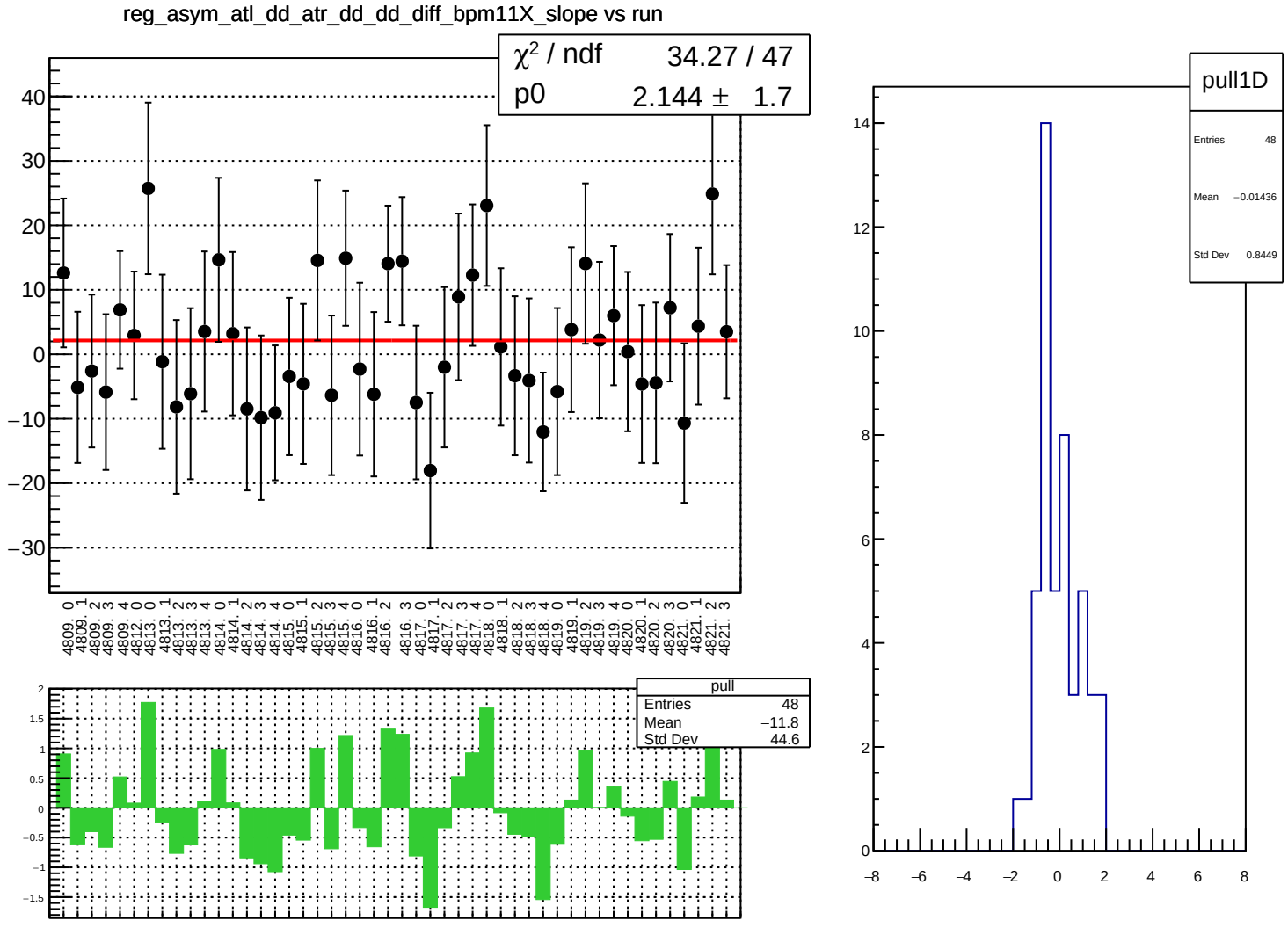

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aX_slope vs run
χ² / ndf 43.85 / 47
p0 −4.331 ± 6.867
150
100
50
0
−50
−100
−150
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean −88.05
Std Dev 104.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 48
Mean 0.02297
Std Dev 0.9555
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

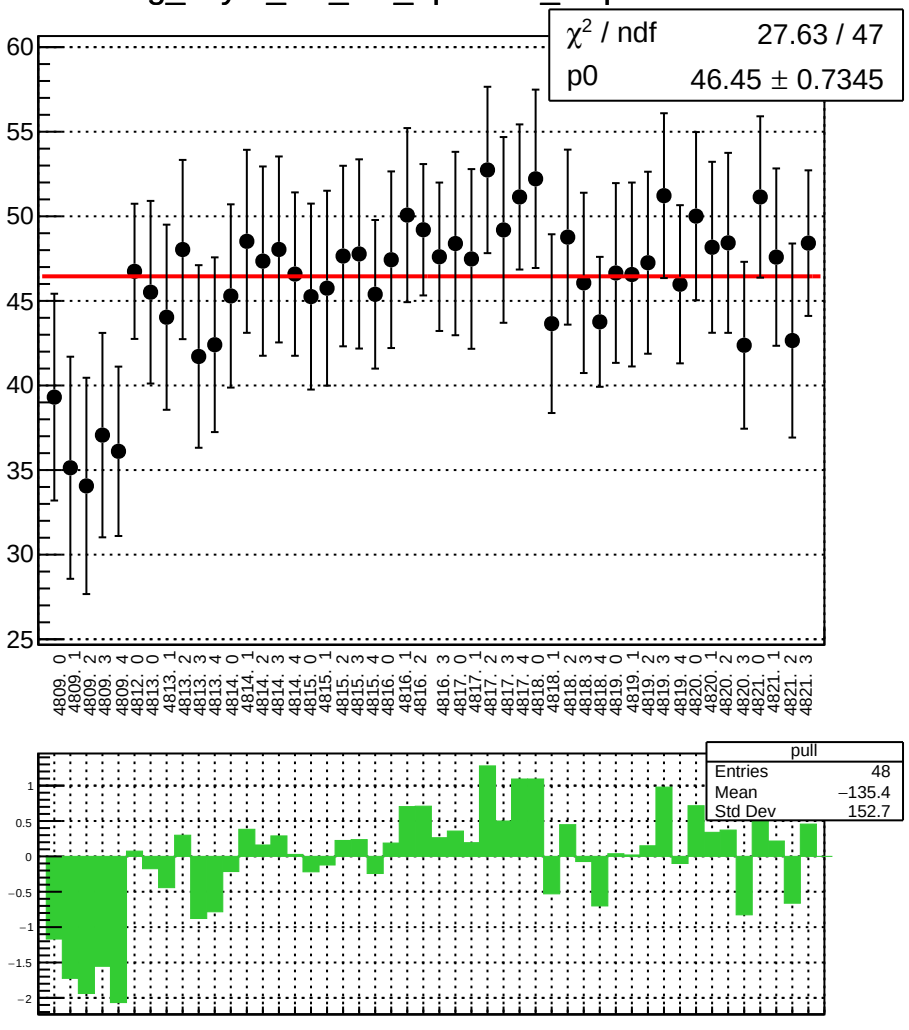

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 27.16 / 47
p0 1.803 ± 8.25
pull
Entries 48
Mean 992.2
Std Dev 965.2

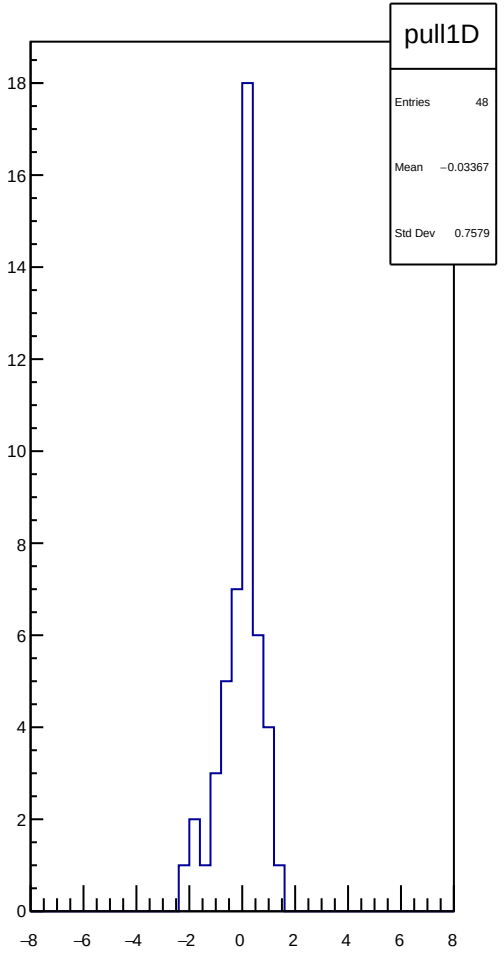

pull1D
Entries 48
Mean 0.001857
Std Dev 0.7522

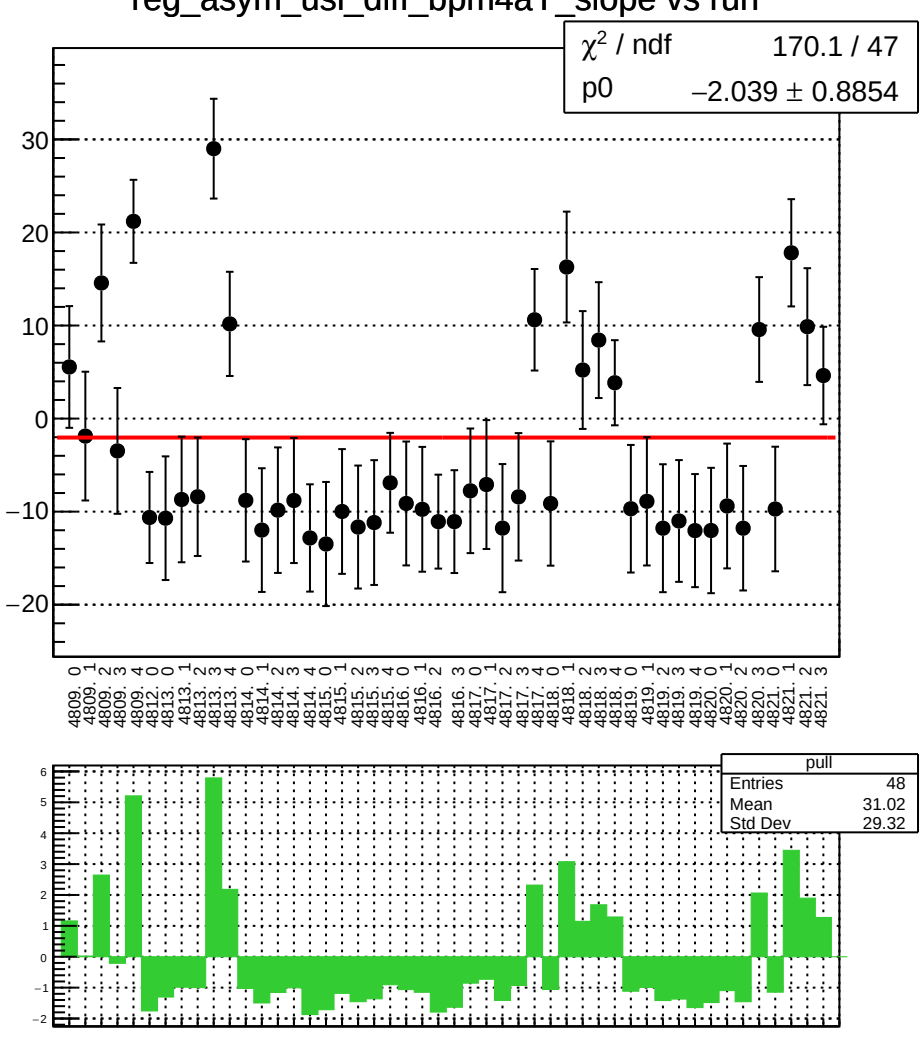

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 44.93 / 47
p0 16 ± 1.319
pull
Entries 48
Mean −52.94
Std Dev 53.34
pull1D
Entries 48
Mean −0.011
Std Dev 0.9675

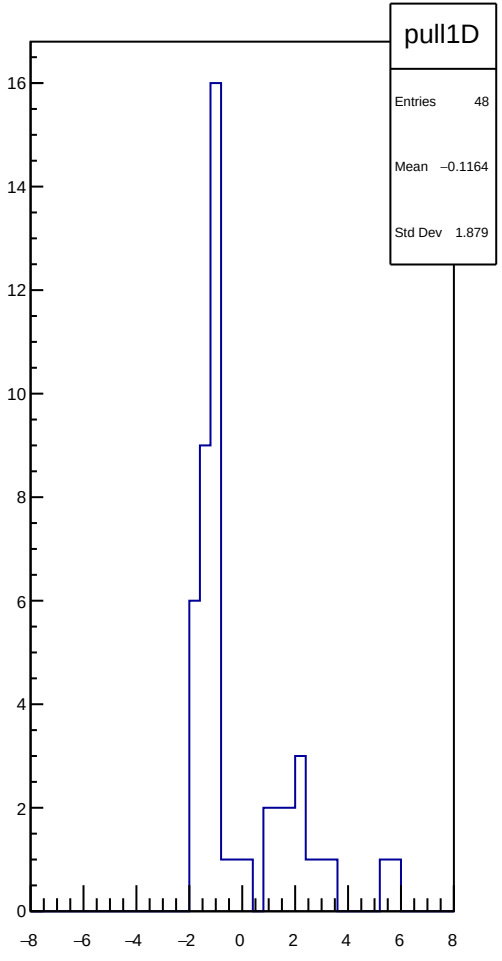

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 34.74 / 47
p0 −0.395 ± 9.775
200
100
0
−100
−200
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 561.9
Std Dev 531.9
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 48
Mean −0.003717
Std Dev 0.8507
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

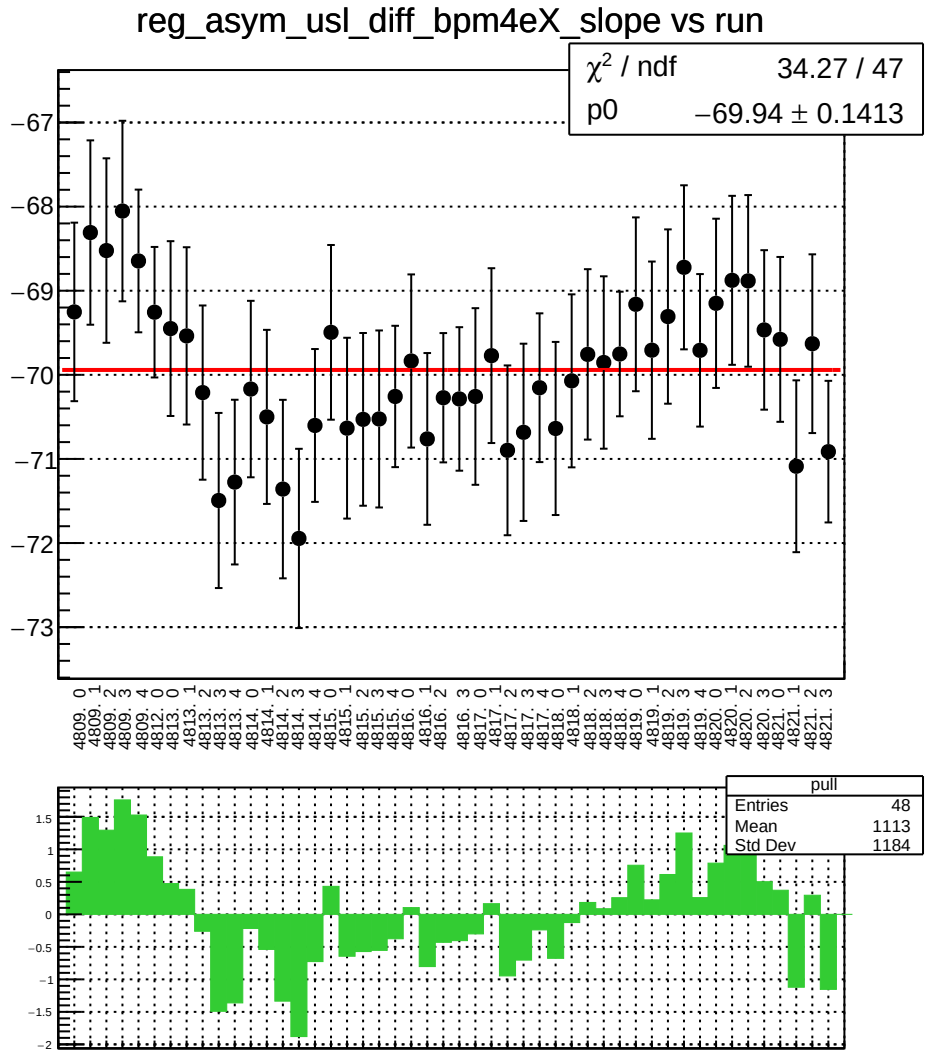

reg_asym_atl_dd_atr_dd_dd_diff_bpm11X_slope vs run
χ² / ndf 34.27 / 47
p0 2.144 ± 1.7
pull
Entries 48
Mean −11.8
Std Dev 44.6
pull1D
Entries 48
Mean −0.01436
Std Dev 0.8449

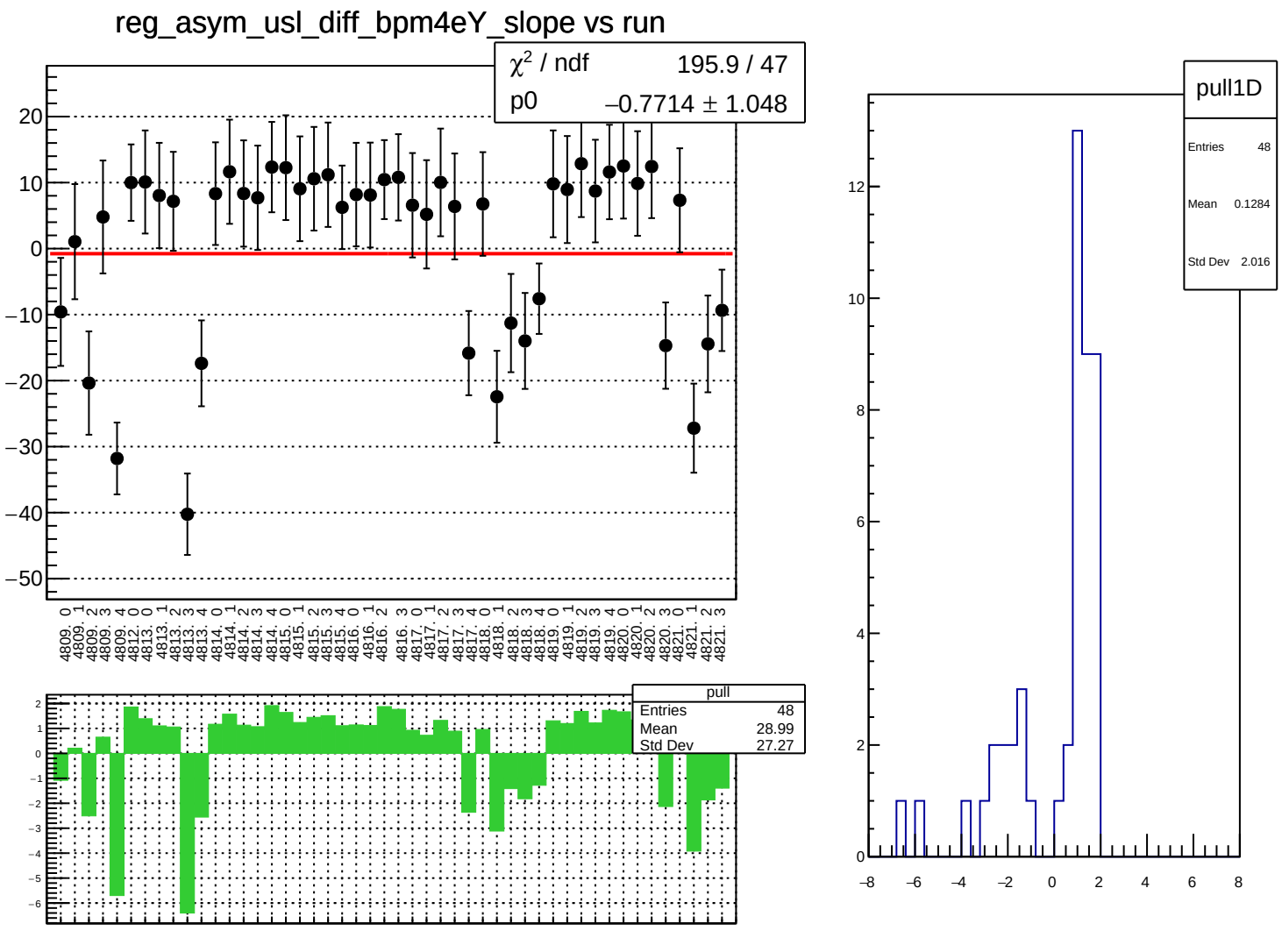

reg_asym_usl_diff_bpm4aX_slope vs run
χ² / ndf 27.63 / 47
p0 46.45 ± 0.7345
pull
Entries 48
Mean −135.4
Std Dev 152.7

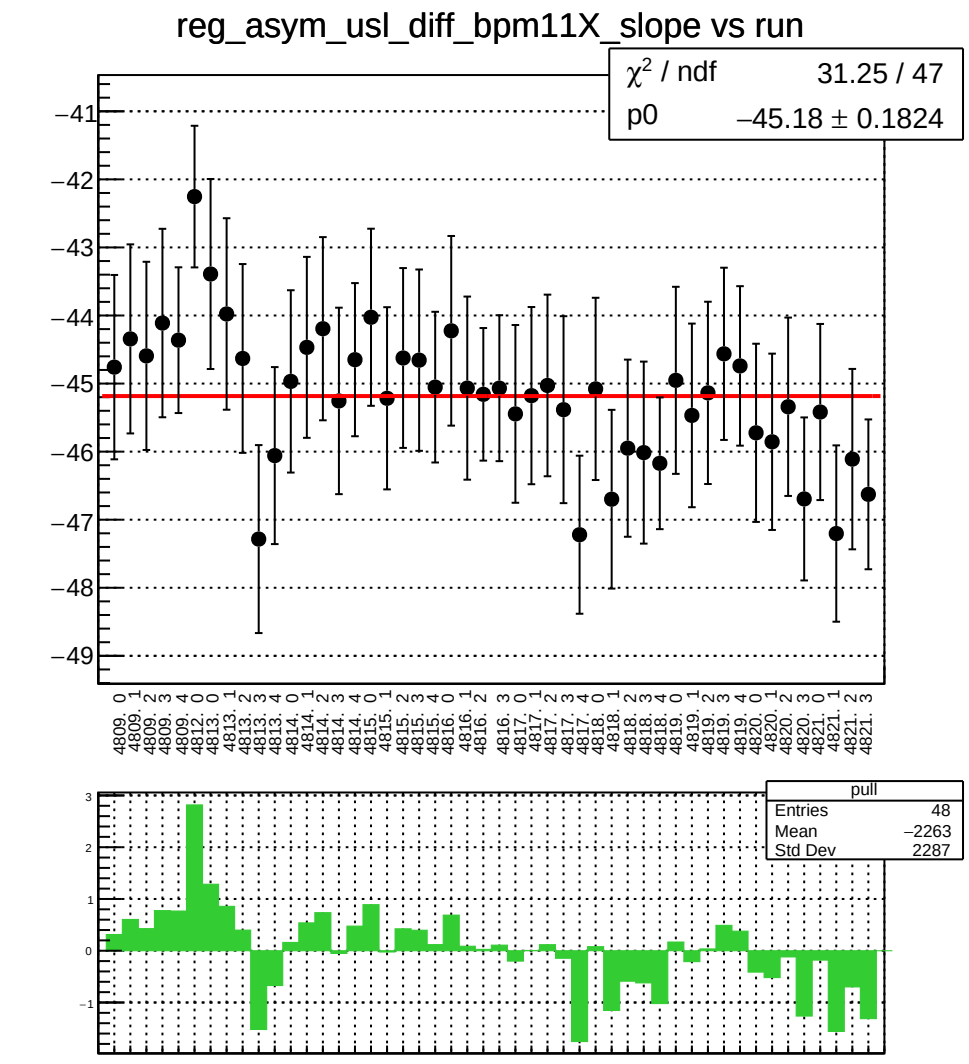

pull1D
Entries 48
Mean −0.03367
Std Dev 0.7579

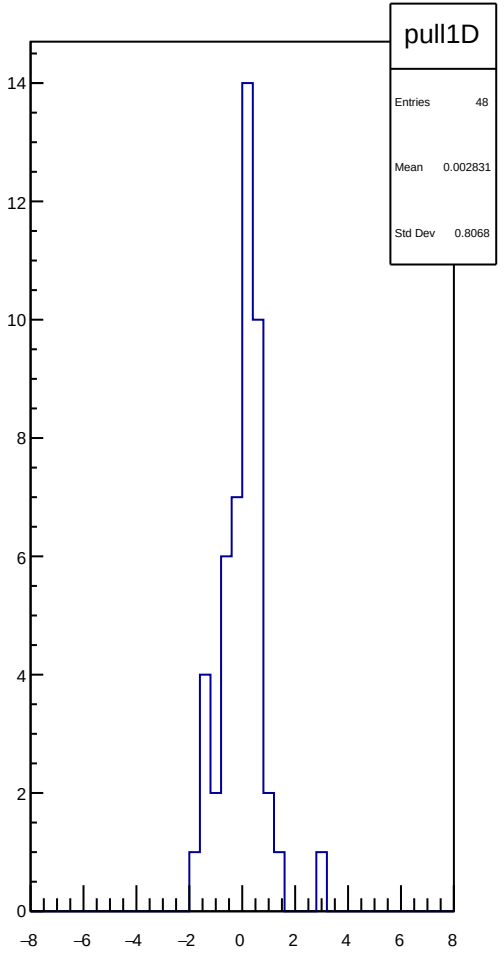

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 170.1 / 47
p0 −2.039 ± 0.8854
pull
Entries 48
Mean 31.02
Std Dev 29.32

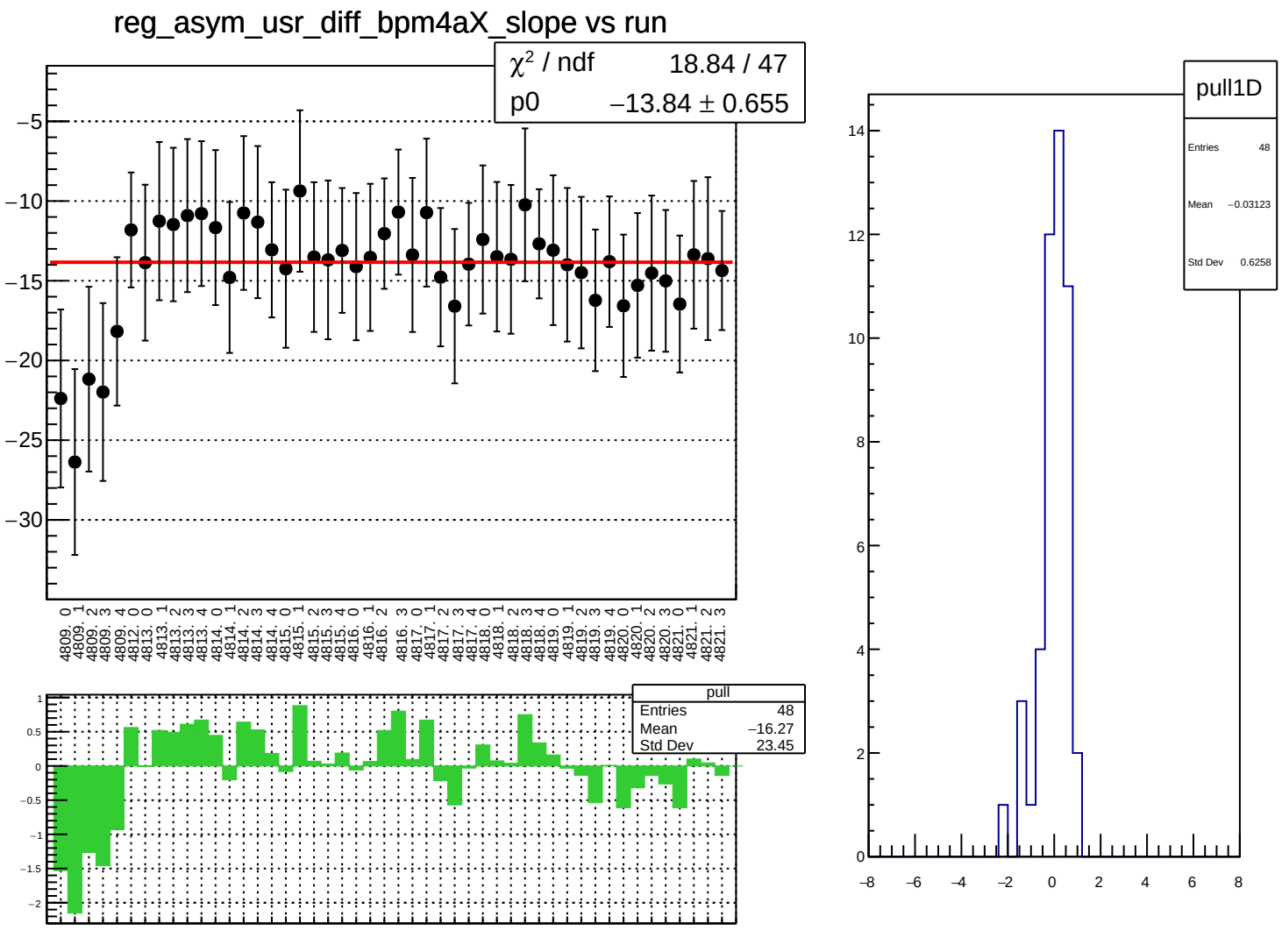

pull1D
Entries 48
Mean −0.1164
Std Dev 1.879

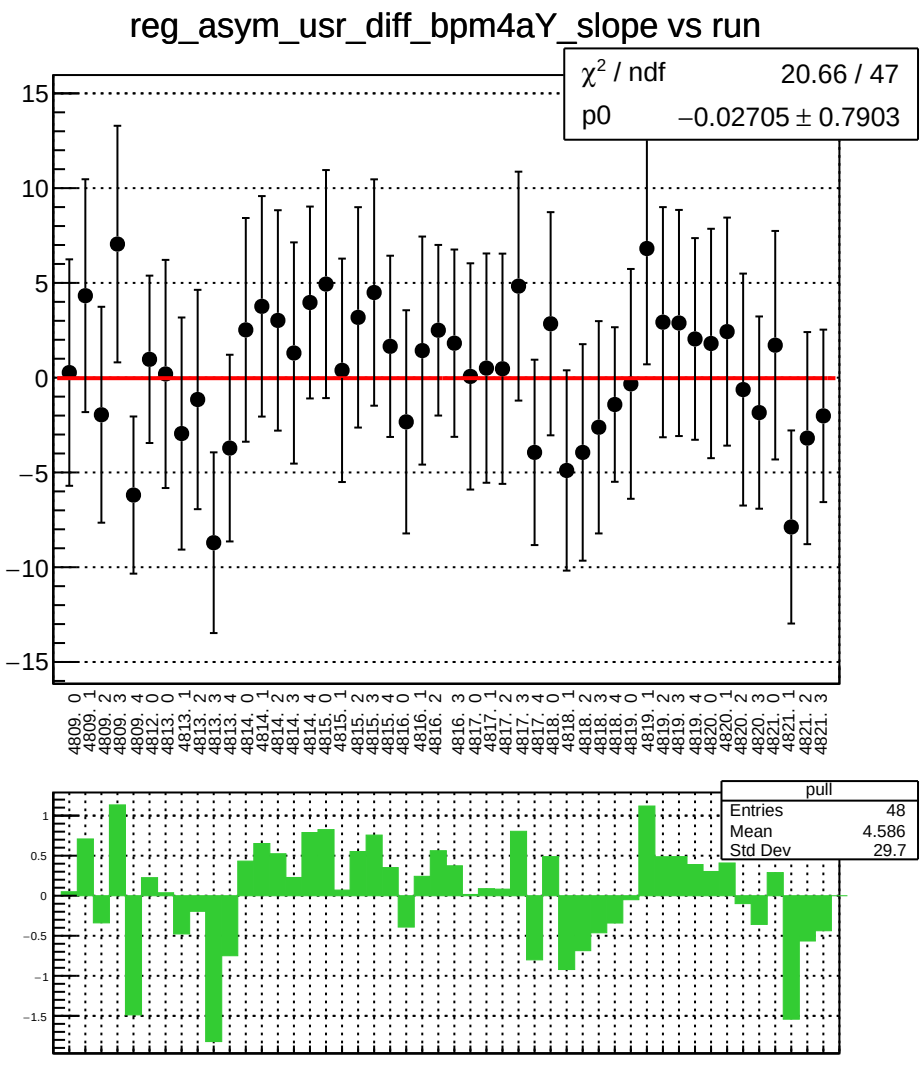

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 34.27 / 47
p0 −69.94 ± 0.1413
pull
Entries 48
Mean 1113
Std Dev 1184
pull1D
Entries 48
Mean −0.000313
Std Dev 0.8449

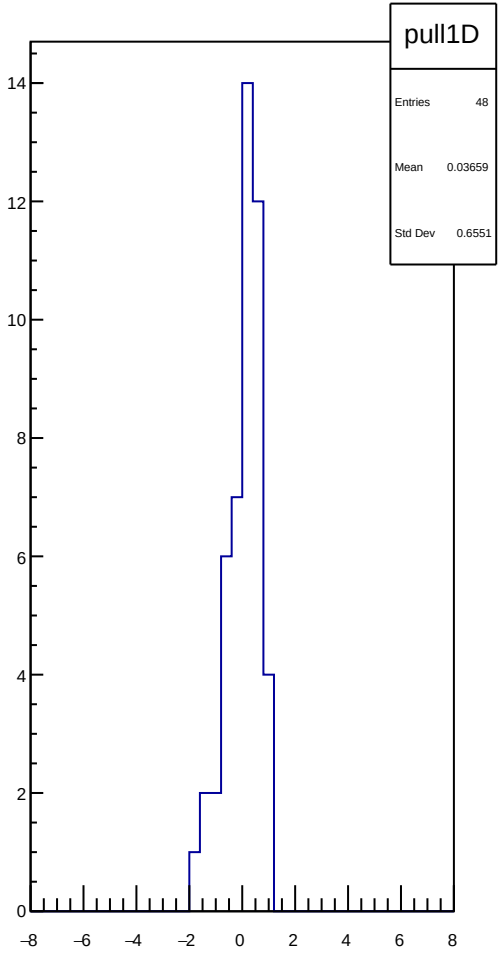

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 195.9 / 47
p0 −0.7714 ± 1.048
pull
Entries 48
Mean 28.99
Std Dev 27.27
pull1D
Entries 48
Mean 0.1284
Std Dev 2.016

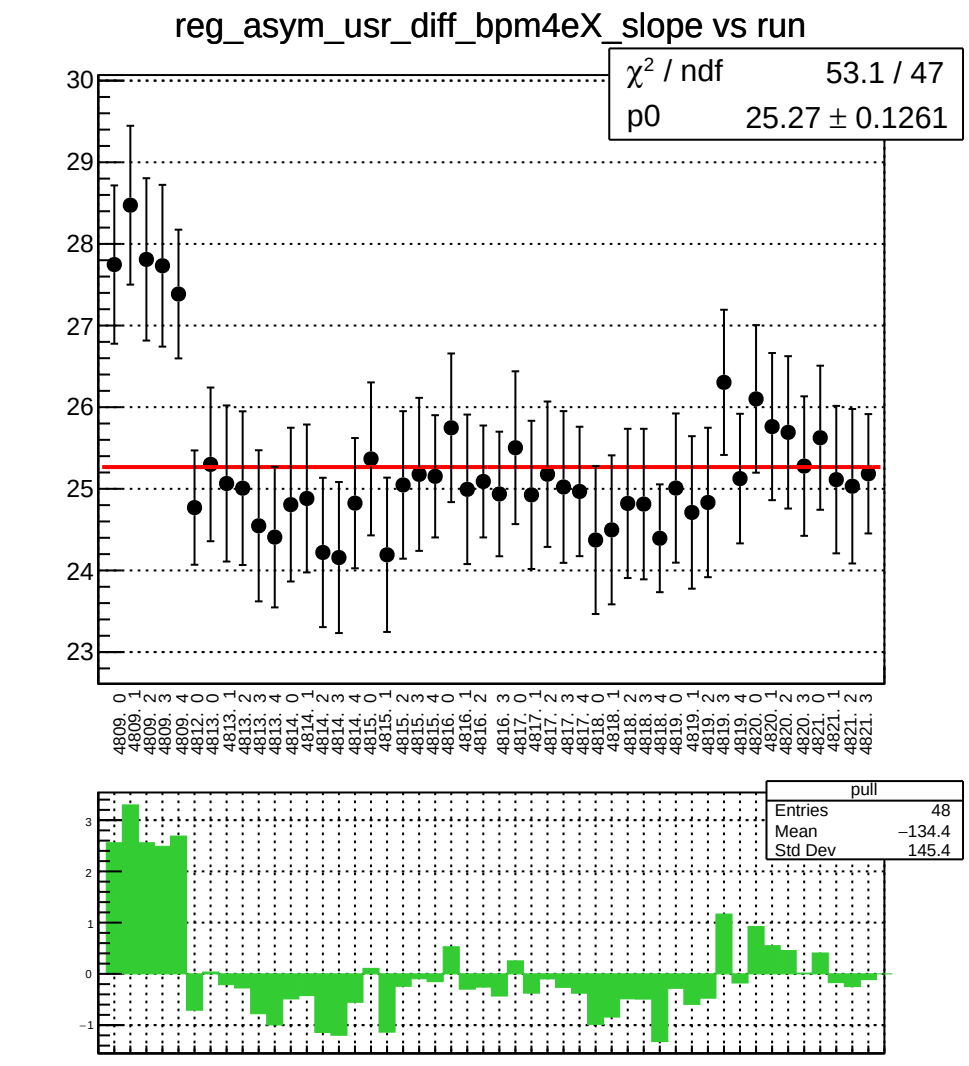

reg_asym_usl_diff_bpm11X_slope vs run
χ² / ndf 31.25 / 47
p0 −45.18 ± 0.1824
pull
Entries 48
Mean −2263
Std Dev 2287

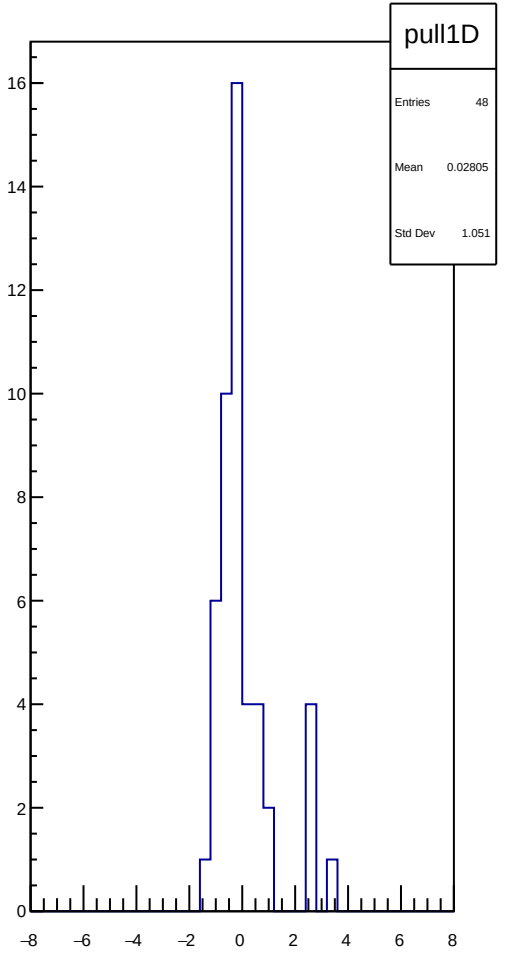

pull1D
Entries 48
Mean 0.002831
Std Dev 0.8068

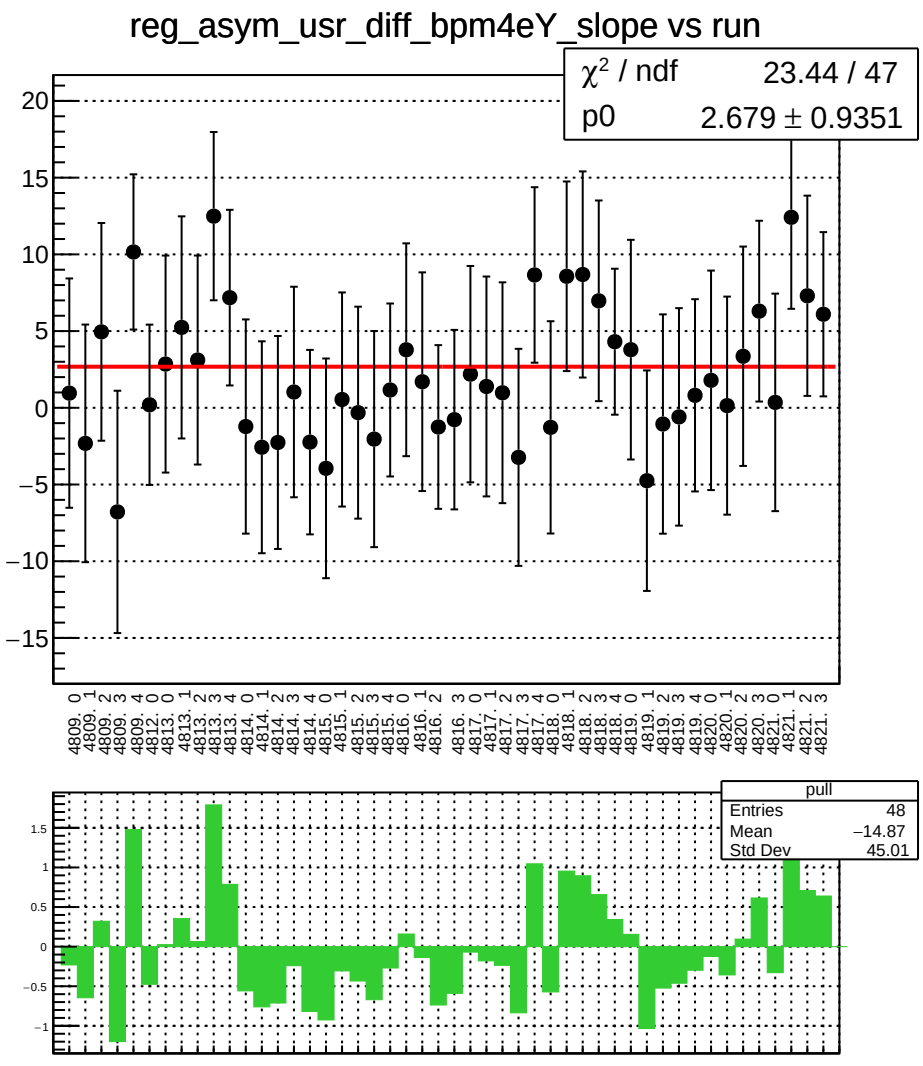

reg_asym_usr_diff_bpm4aX_slope vs run
χ² / ndf 18.84 / 47
p0 −13.84 ± 0.655
pull
Entries 48
Mean −16.27
Std Dev 23.45
pull1D
Entries 48
Mean −0.03123
Std Dev 0.6258

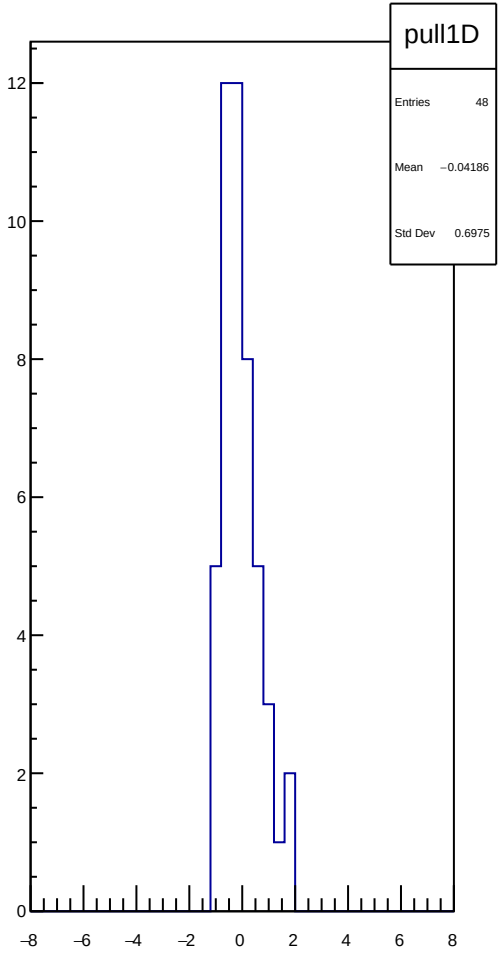

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 20.66 / 47
p0 −0.02705 ± 0.7903
pull
Entries 48
Mean 4.586
Std Dev 29.7

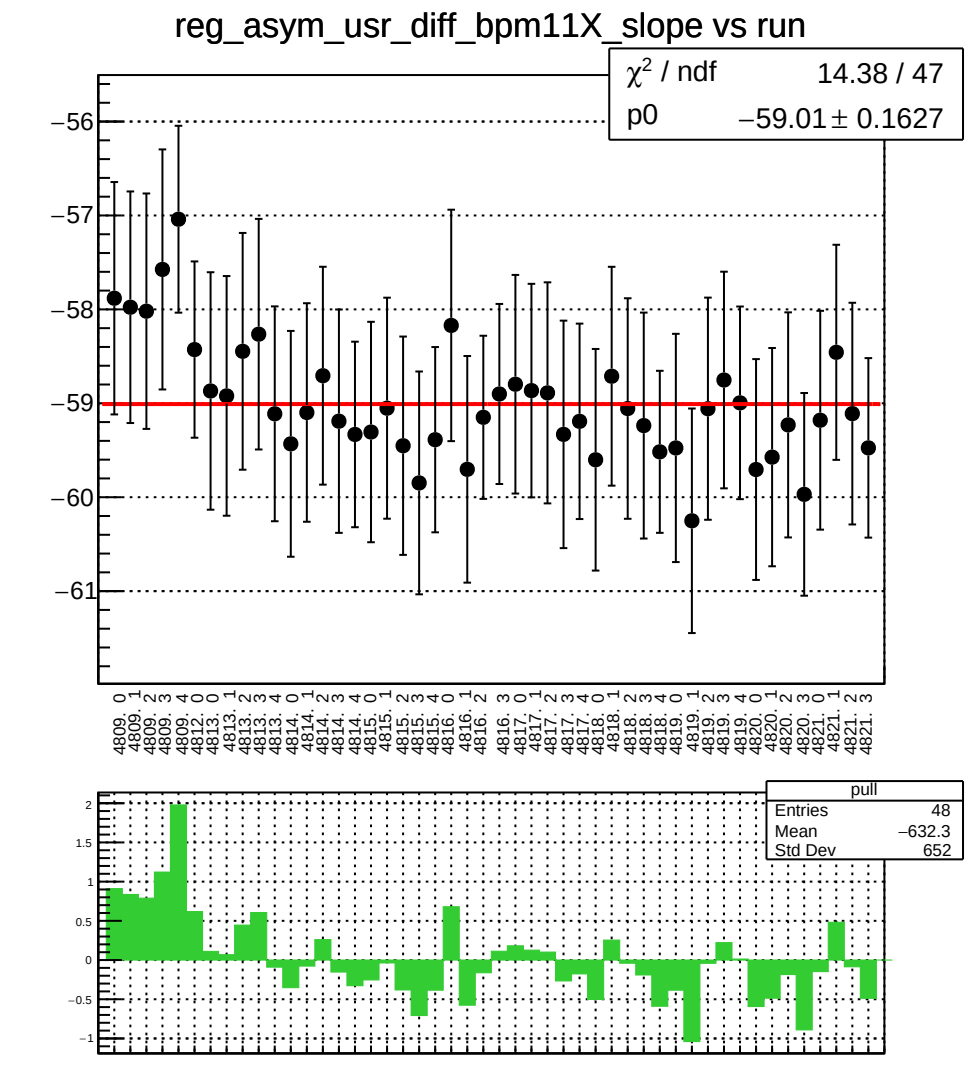

pull1D
Entries 48
Mean 0.03659
Std Dev 0.6551

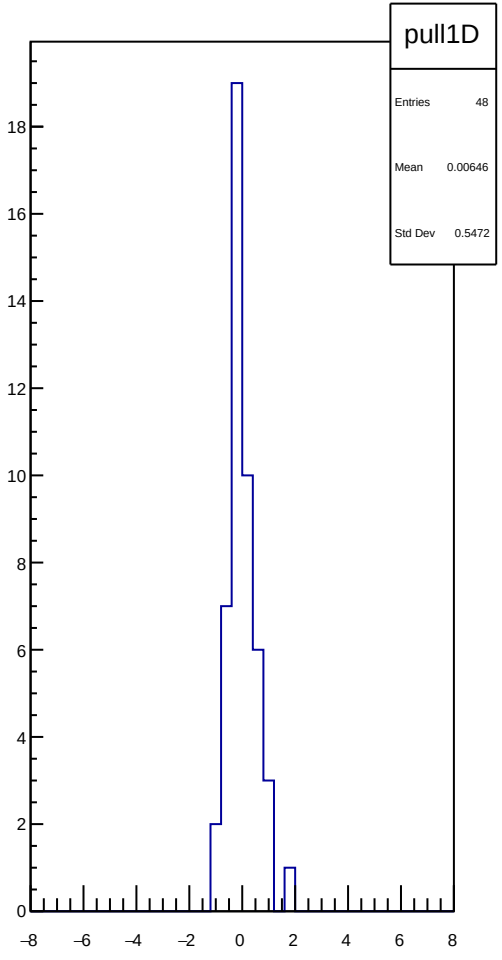

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 53.1 / 47
p0 25.27 ± 0.1261
pull
Entries 48
Mean −134.4
Std Dev 145.4

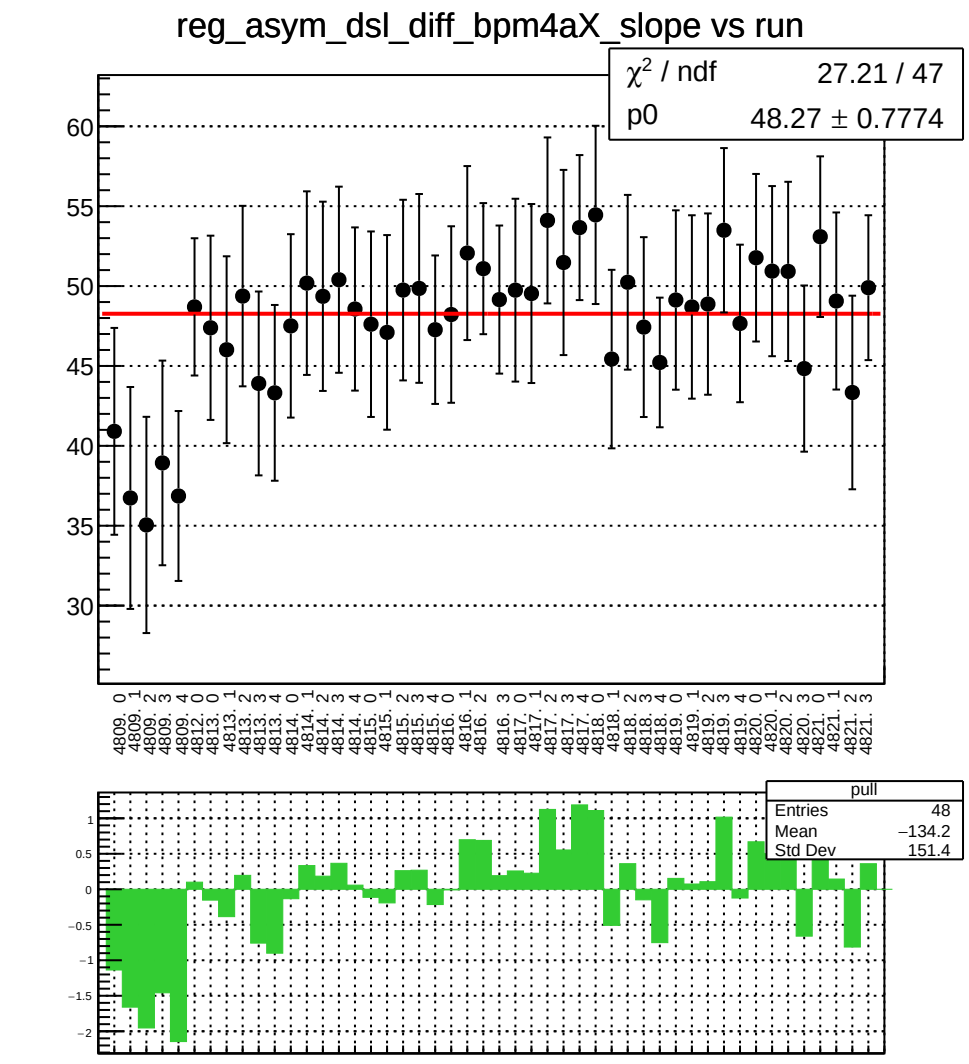

pull1D
Entries 48
Mean 0.02805
Std Dev 1.051

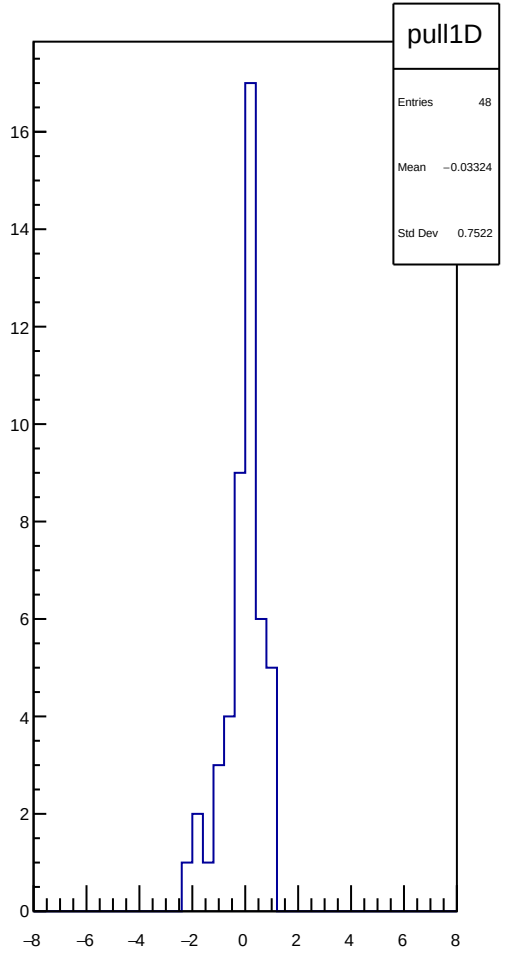

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 23.44 / 47
p0 2.679 ± 0.9351
pull
Entries 48
Mean −14.87
Std Dev 45.01

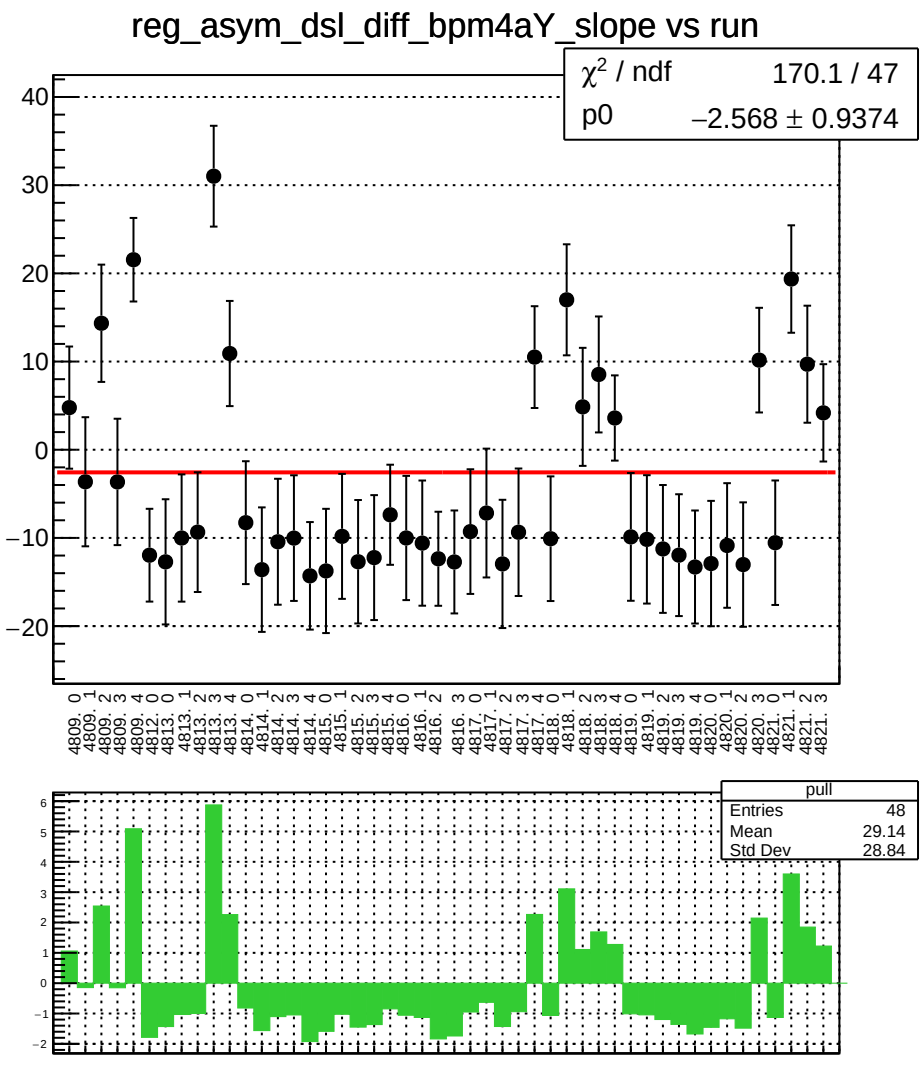

pull1D
Entries 48
Mean −0.04186
Std Dev 0.6975

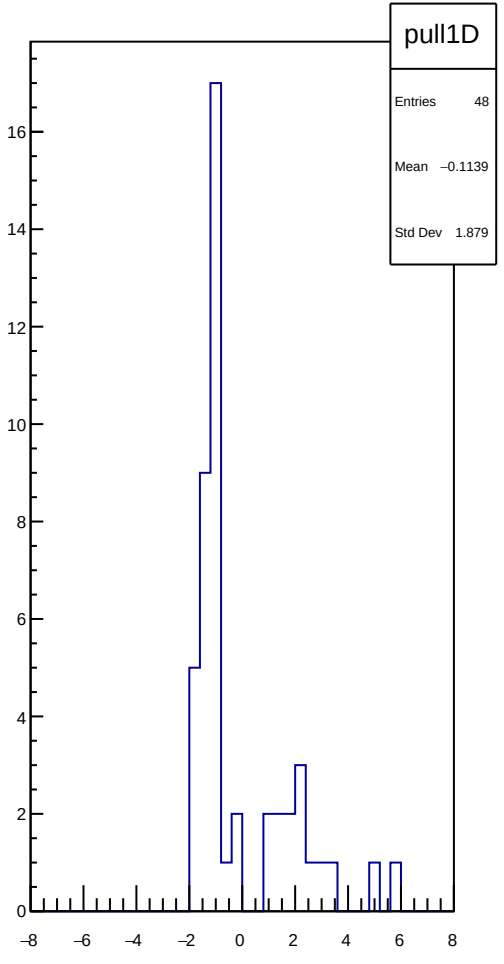

reg_asym_usr_diff_bpm11X_slope vs run
χ² / ndf 14.38 / 47
p0 −59.01 ± 0.1627
−56
−57
−58
−59
−60
−61
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean −632.3
Std Dev 652
2
1.5
1
0.5
0
−0.5
−1

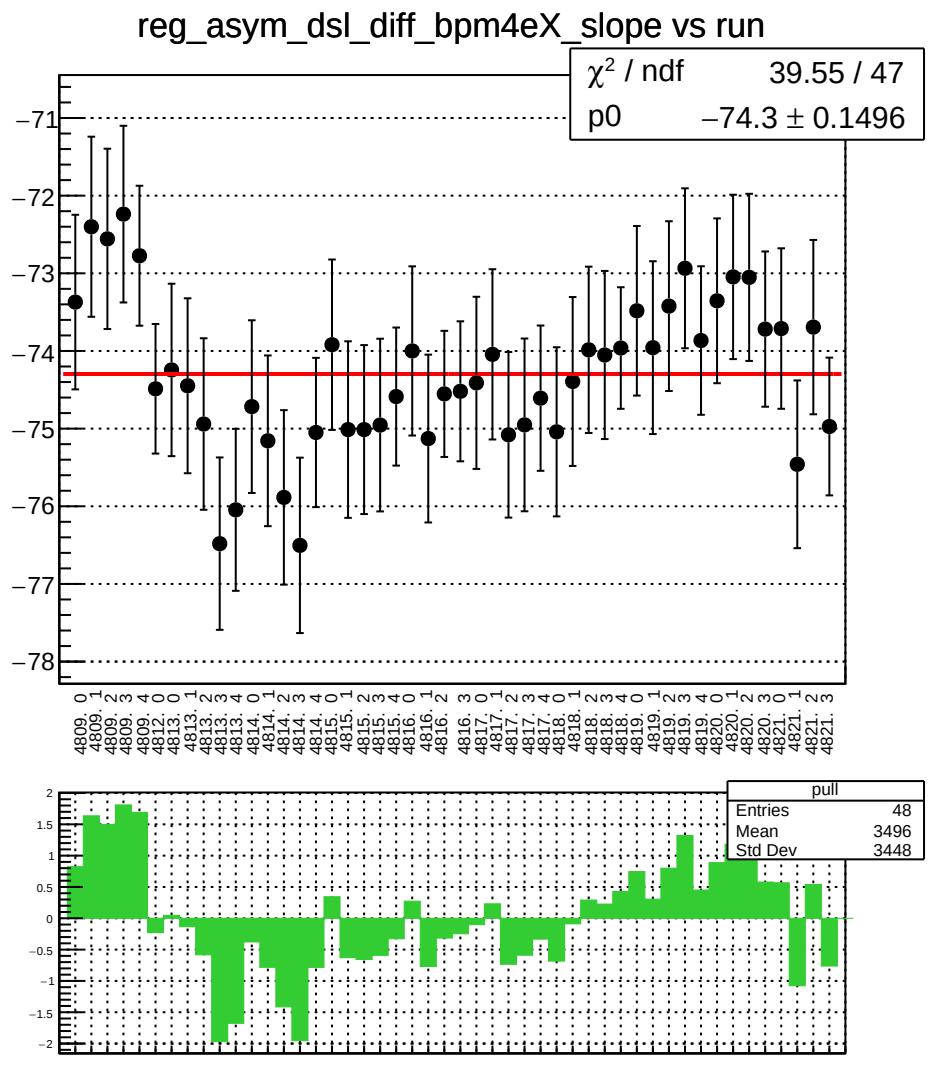

pull1D
Entries 48
Mean 0.00646
Std Dev 0.5472
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

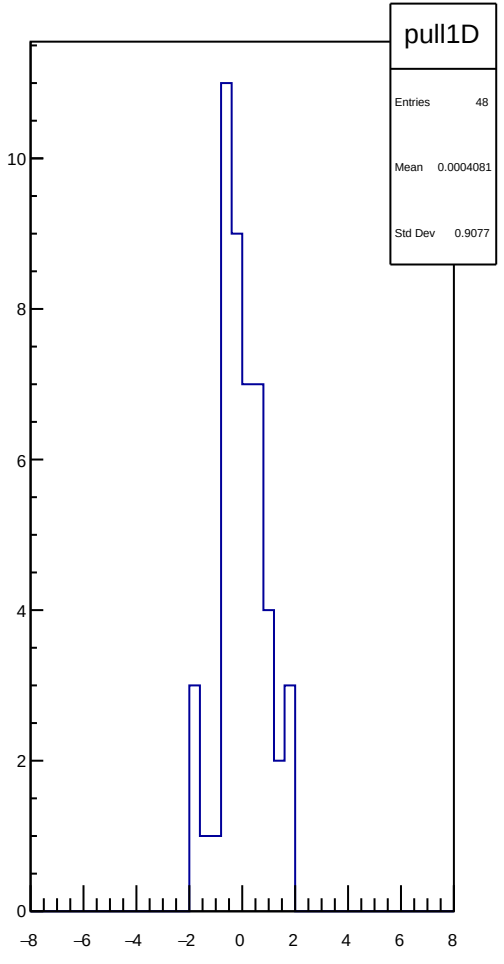

reg_asym_dsl_diff_bpm4aX_slope vs run
χ² / ndf 27.21 / 47
p0 48.27 ± 0.7774
pull
Entries 48
Mean −134.2
Std Dev 151.4

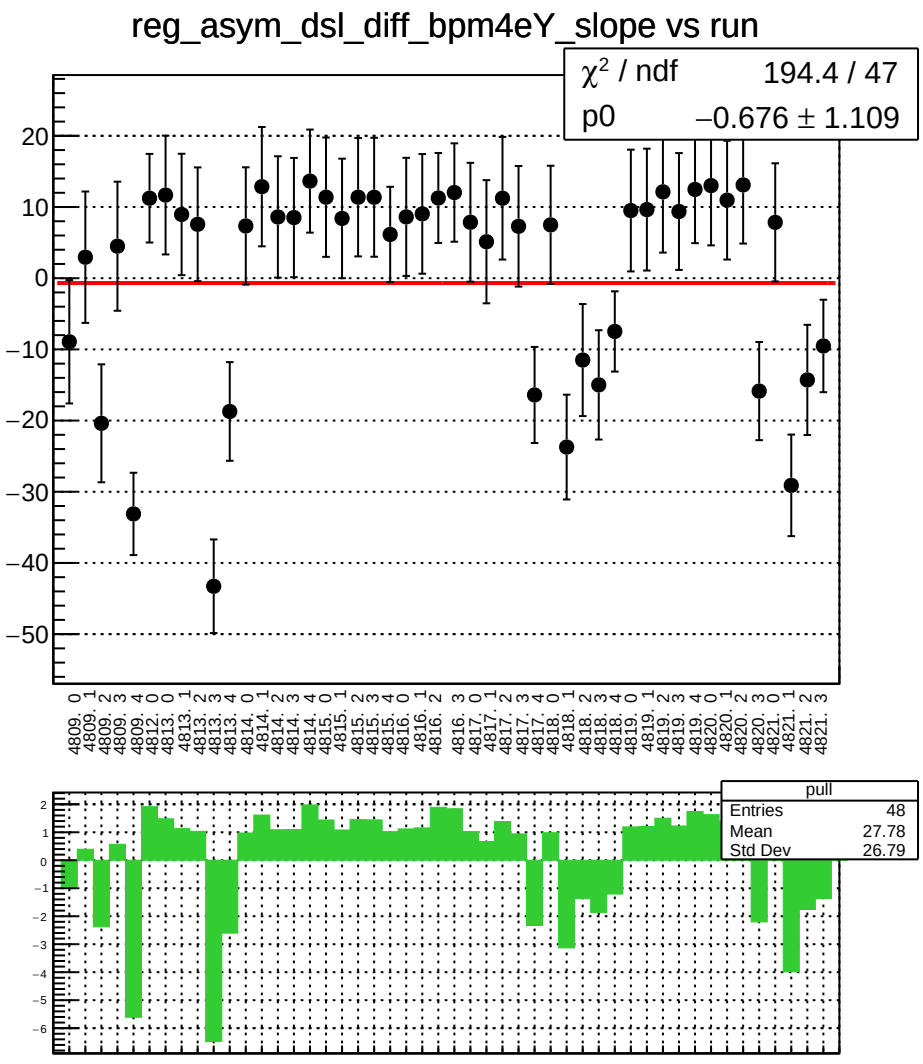

pull1D
Entries 48
Mean −0.03324
Std Dev 0.7522

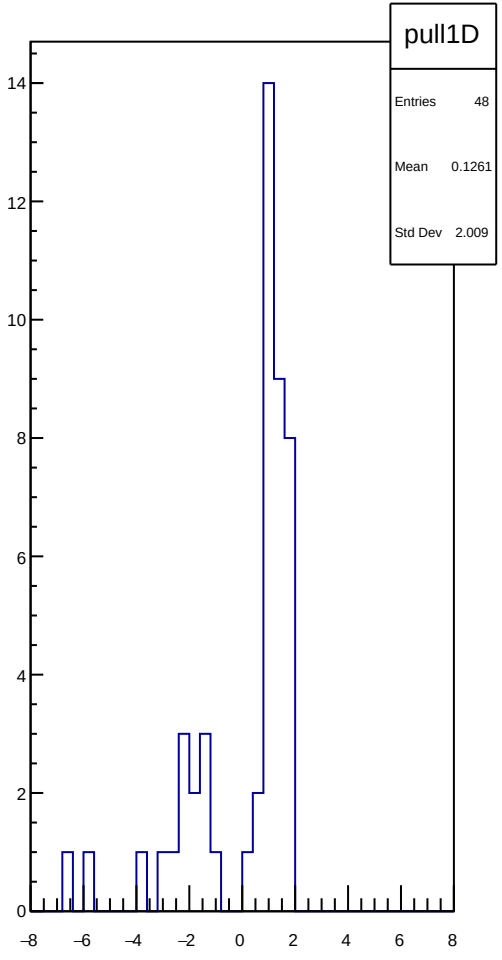

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 170.1 / 47
p0 −2.568 ± 0.9374
pull
Entries 48
Mean 29.14
Std Dev 28.84

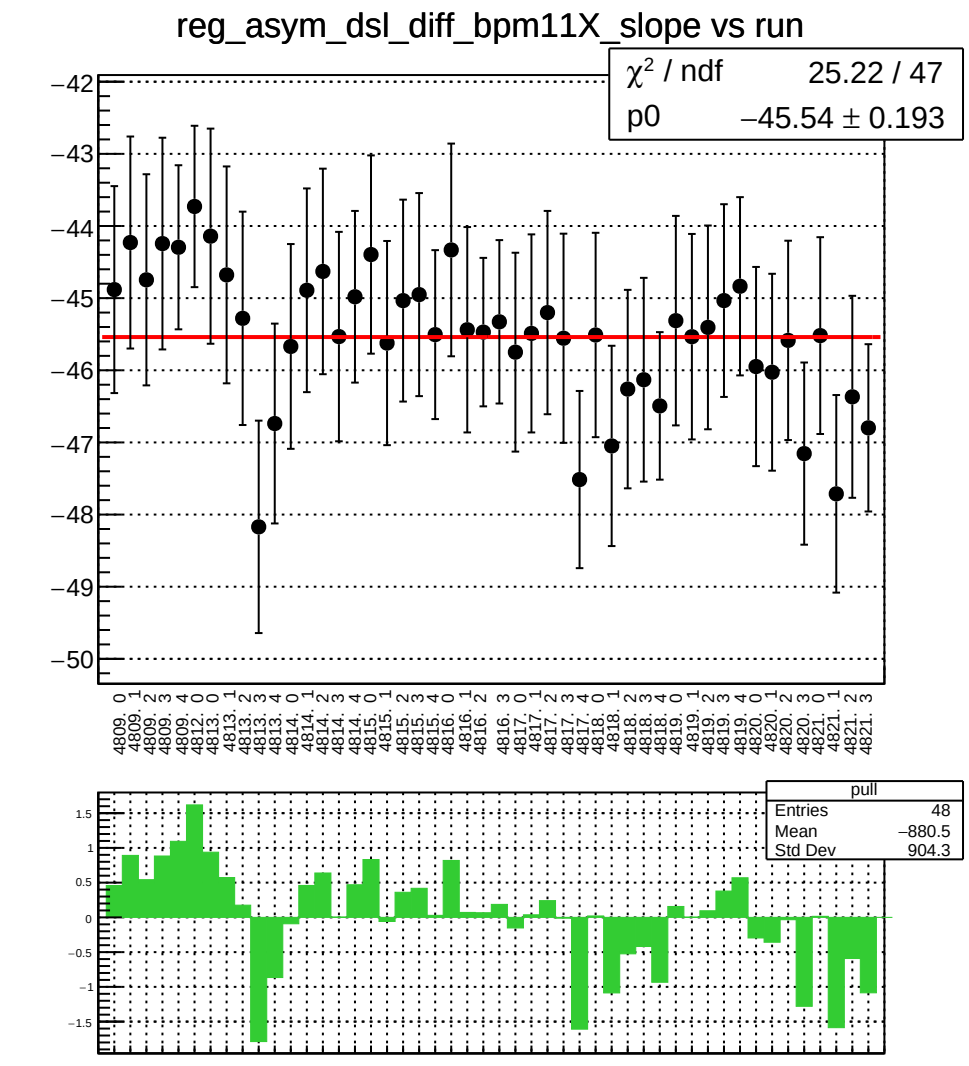

pull1D
Entries 48
Mean −0.1139
Std Dev 1.879

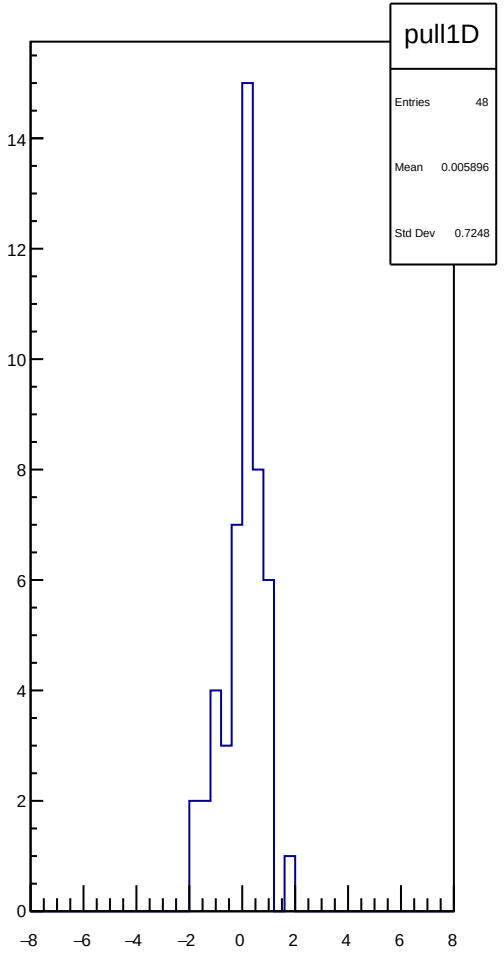

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 39.55 / 47
p0 −74.3 ± 0.1496
pull
Entries 48
Mean 3496
Std Dev 3448

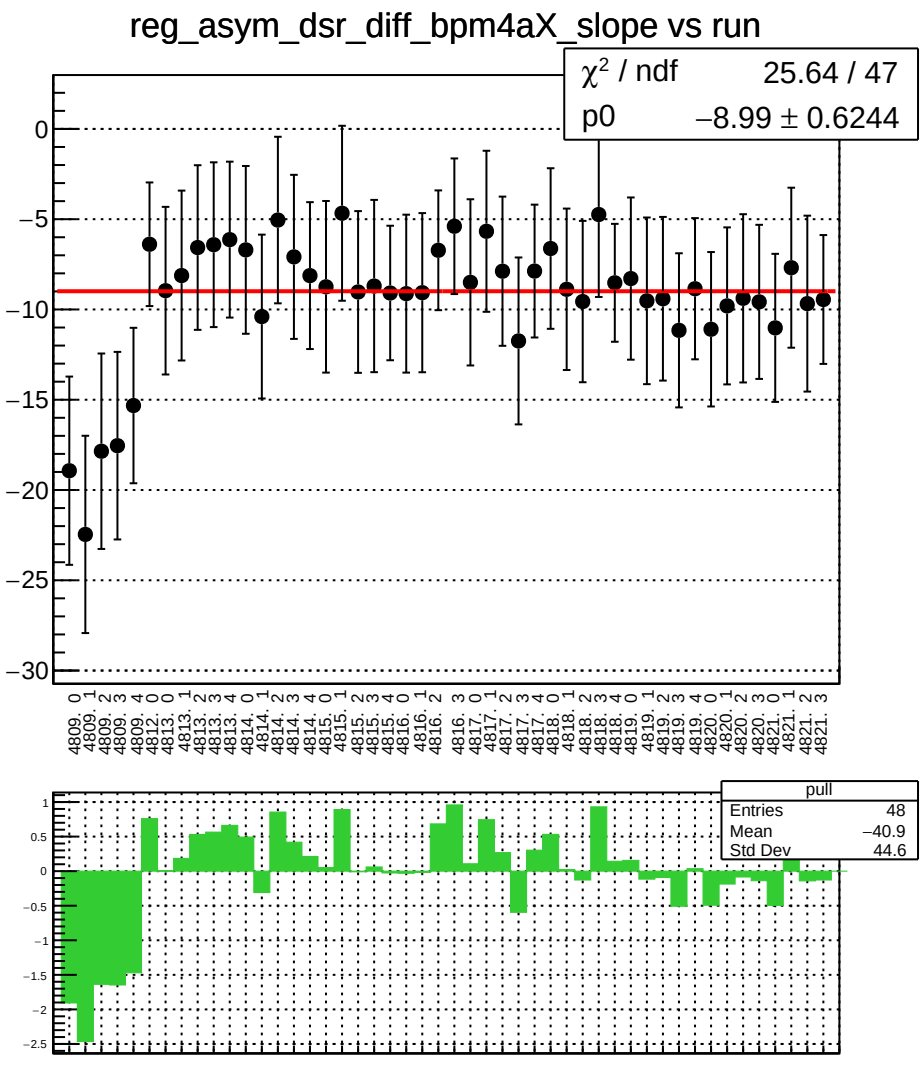

pull1D
Entries 48
Mean 0.0004081
Std Dev 0.9077

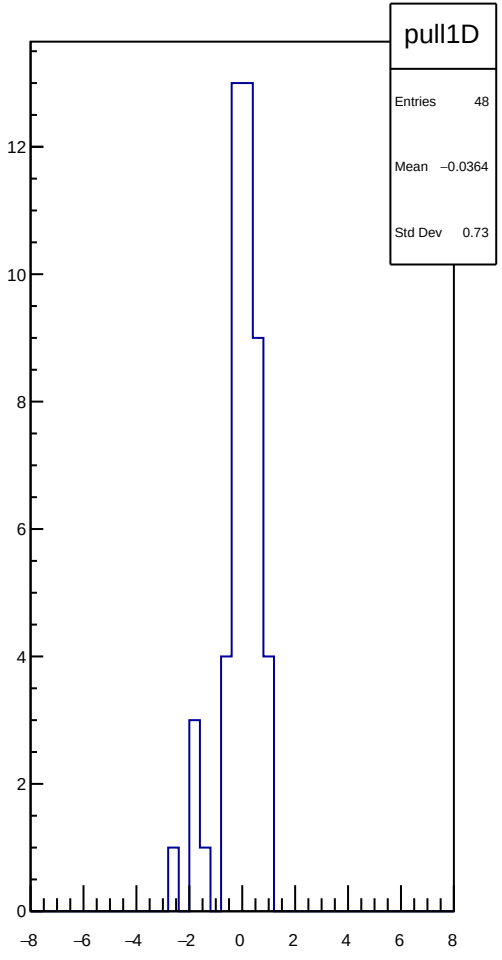

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 194.4 / 47
p0 −0.676 ± 1.109
pull
Entries 48
Mean 27.78
Std Dev 26.79

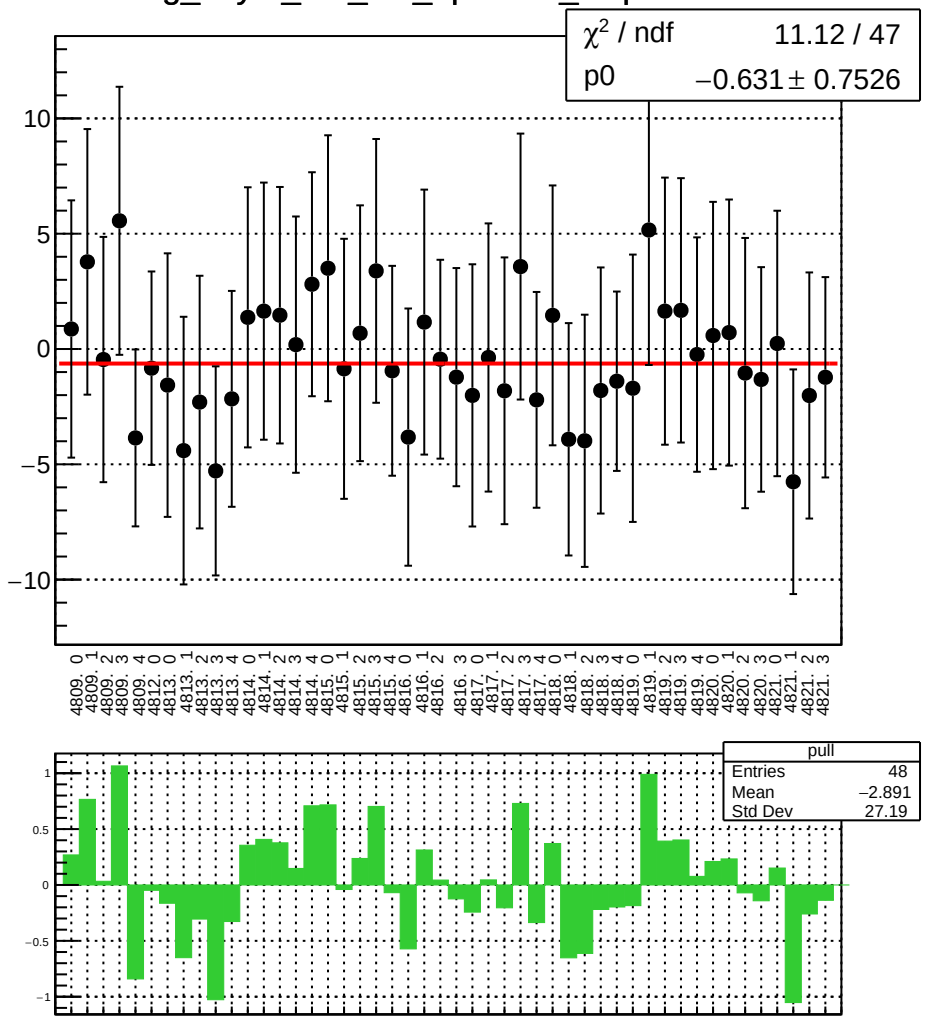

pull1D
Entries 48
Mean 0.1261
Std Dev 2.009

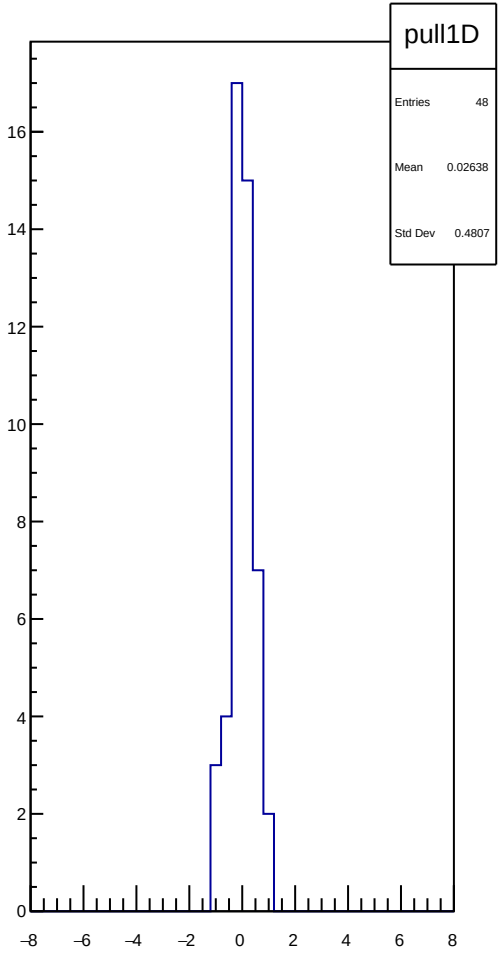

reg_asym_dsl_diff_bpm11X_slope vs run
χ² / ndf 25.22 / 47
p0 −45.54 ± 0.193
pull
Entries 48
Mean −880.5
Std Dev 904.3

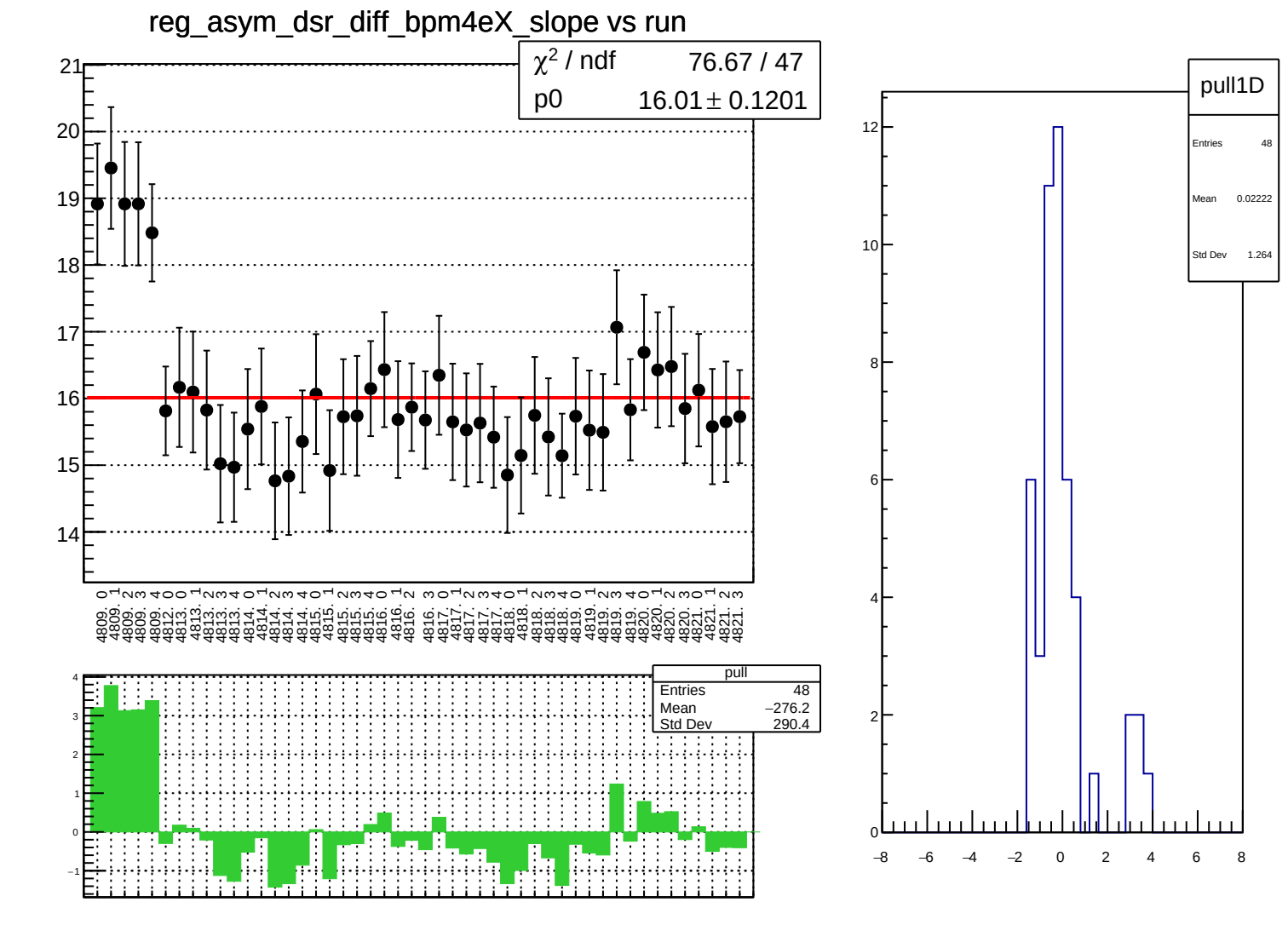

pull1D
Entries 48
Mean 0.005896
Std Dev 0.7248

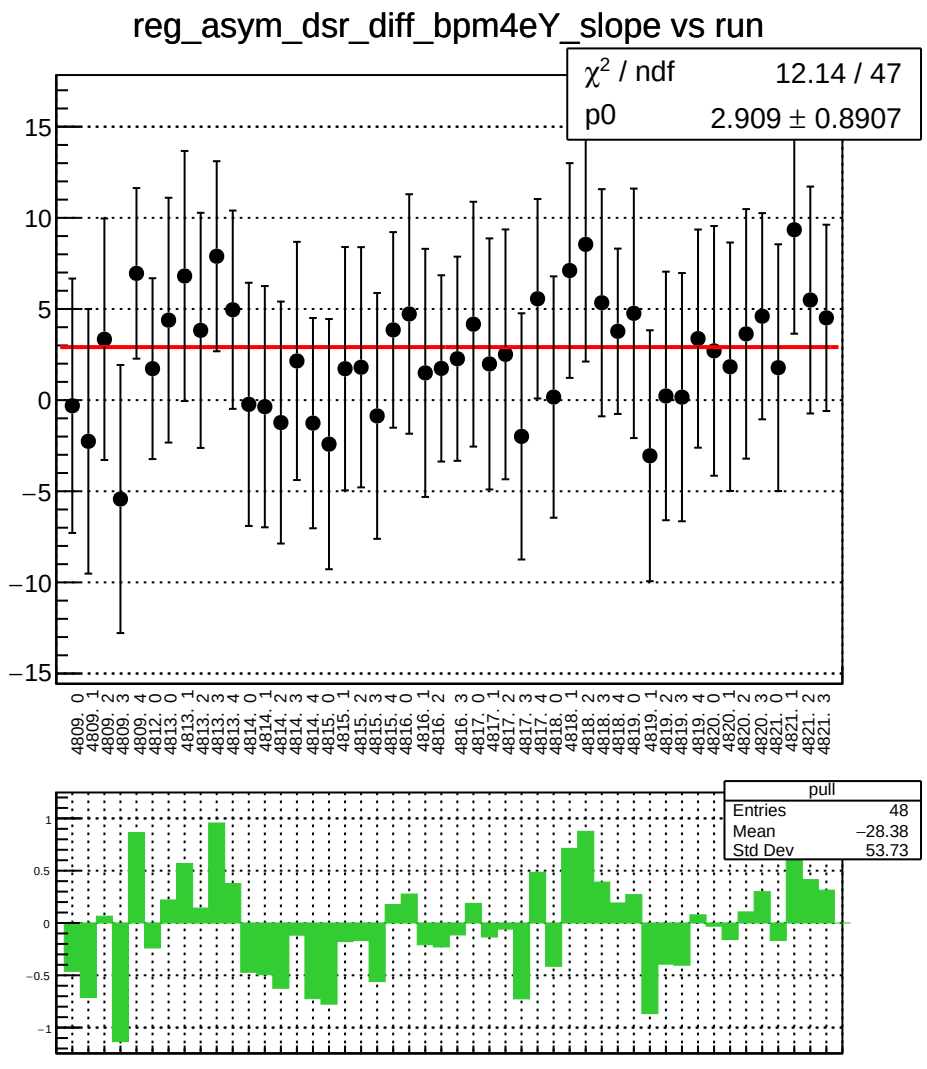

reg_asym_dsr_diff_bpm4aX_slope vs run
χ² / ndf 25.64 / 47
p0 −8.99 ± 0.6244
pull
Entries 48
Mean −40.9
Std Dev 44.6

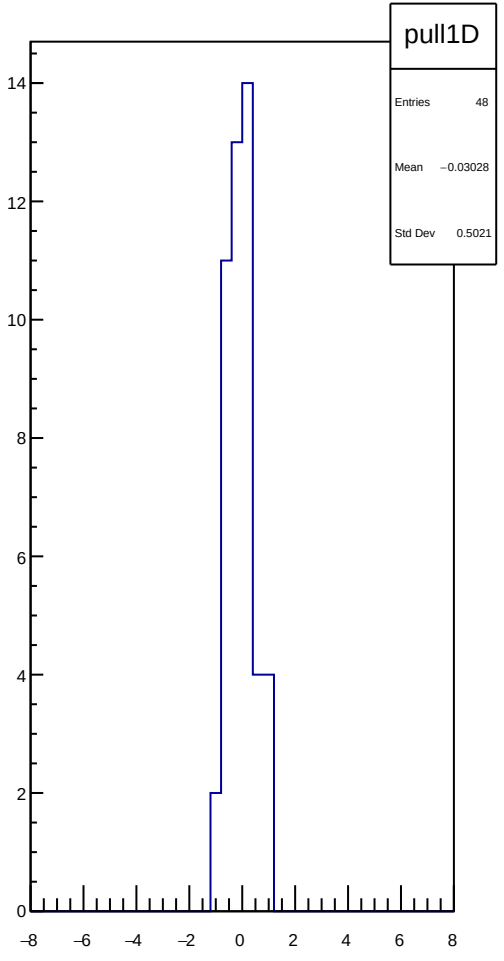

pull1D
Entries 48
Mean −0.0364
Std Dev 0.73

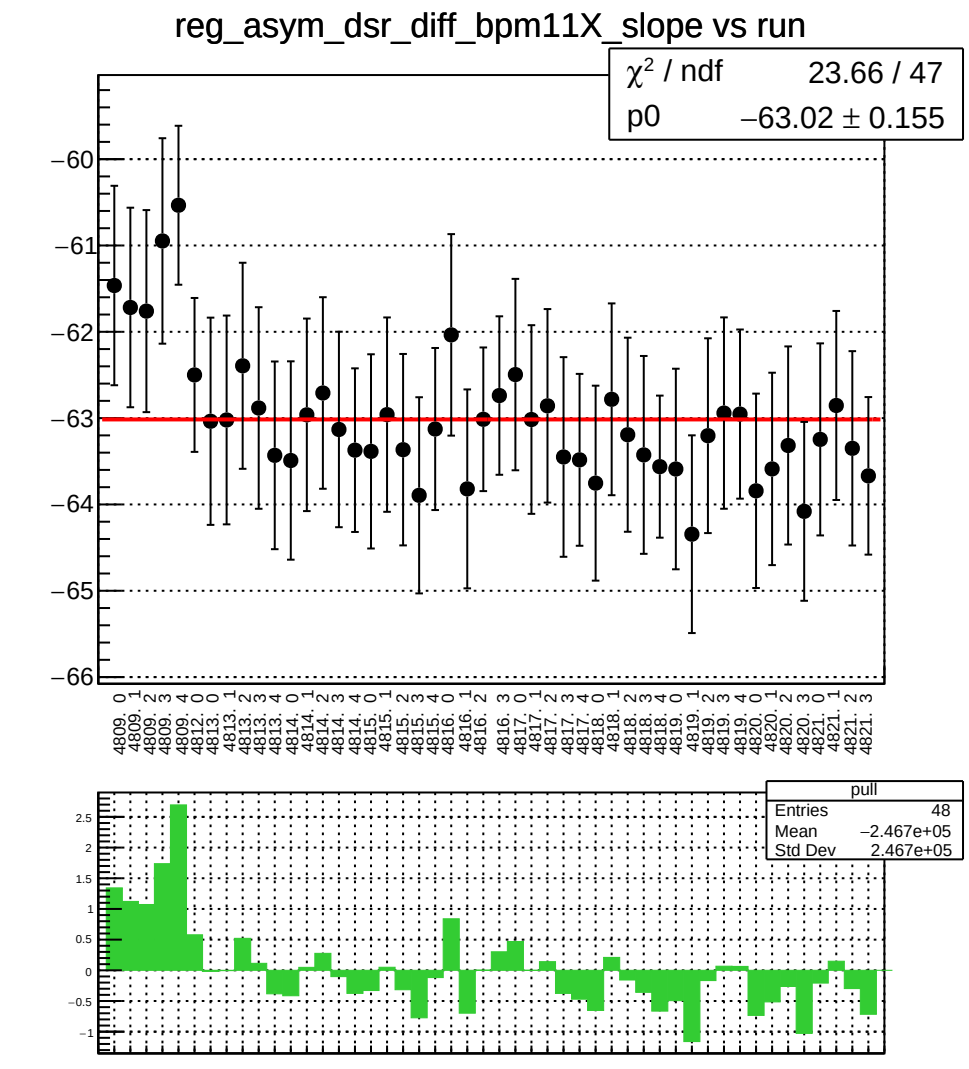

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 11.12 / 47
p0 −0.631 ± 0.7526
pull
Entries 48
Mean −2.891
Std Dev 27.19

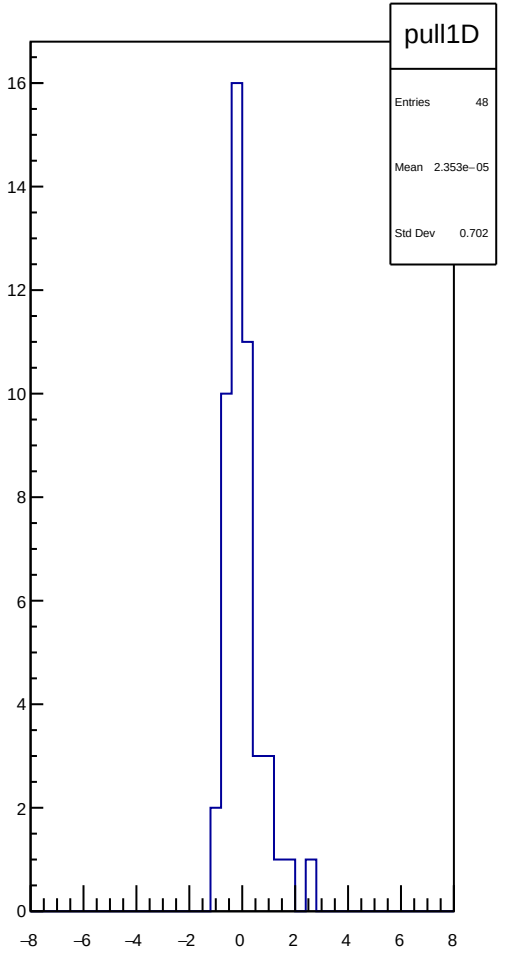

pull1D
Entries 48
Mean 0.02638
Std Dev 0.4807

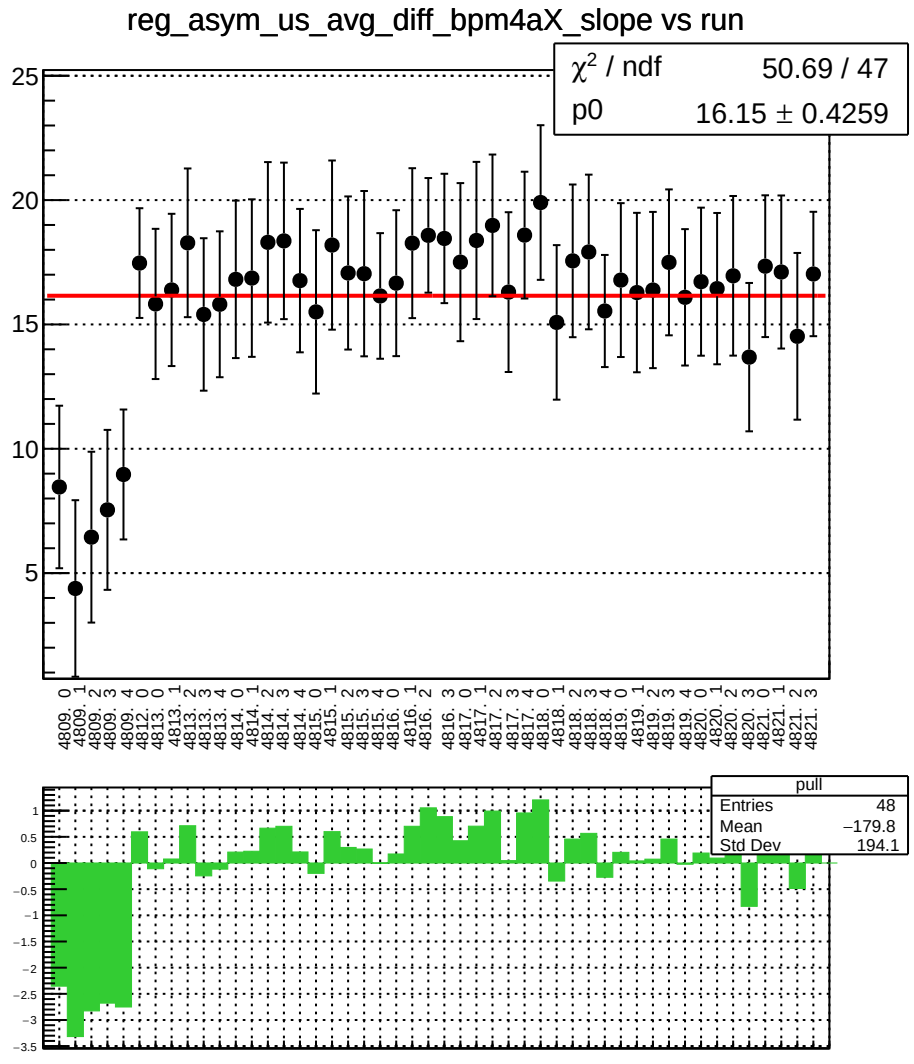

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 76.67 / 47
p0 16.01 ± 0.1201
pull
Entries 48
Mean −276.2
Std Dev 290.4
pull1D
Entries 48
Mean 0.02222
Std Dev 1.264

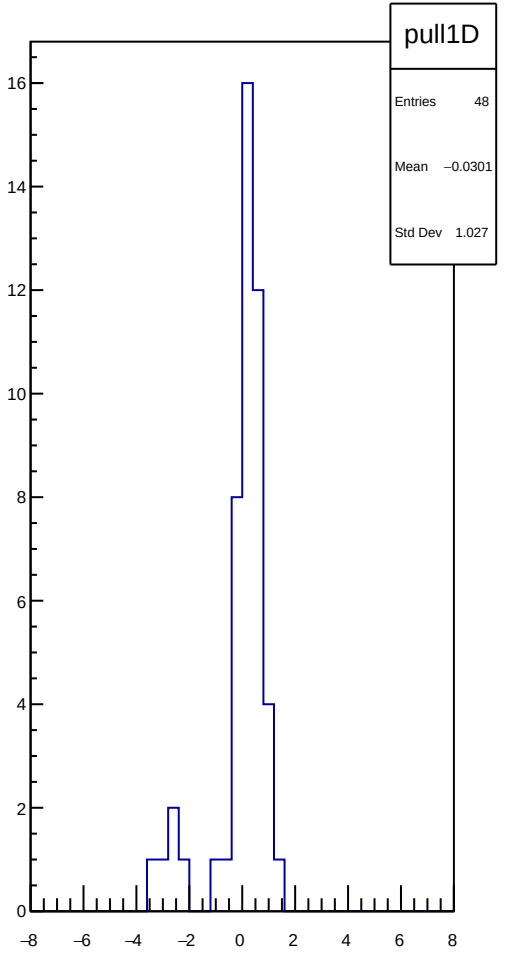

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 12.14 / 47
p0 2.909 ± 0.8907
pull
Entries 48
Mean −28.38
Std Dev 53.73

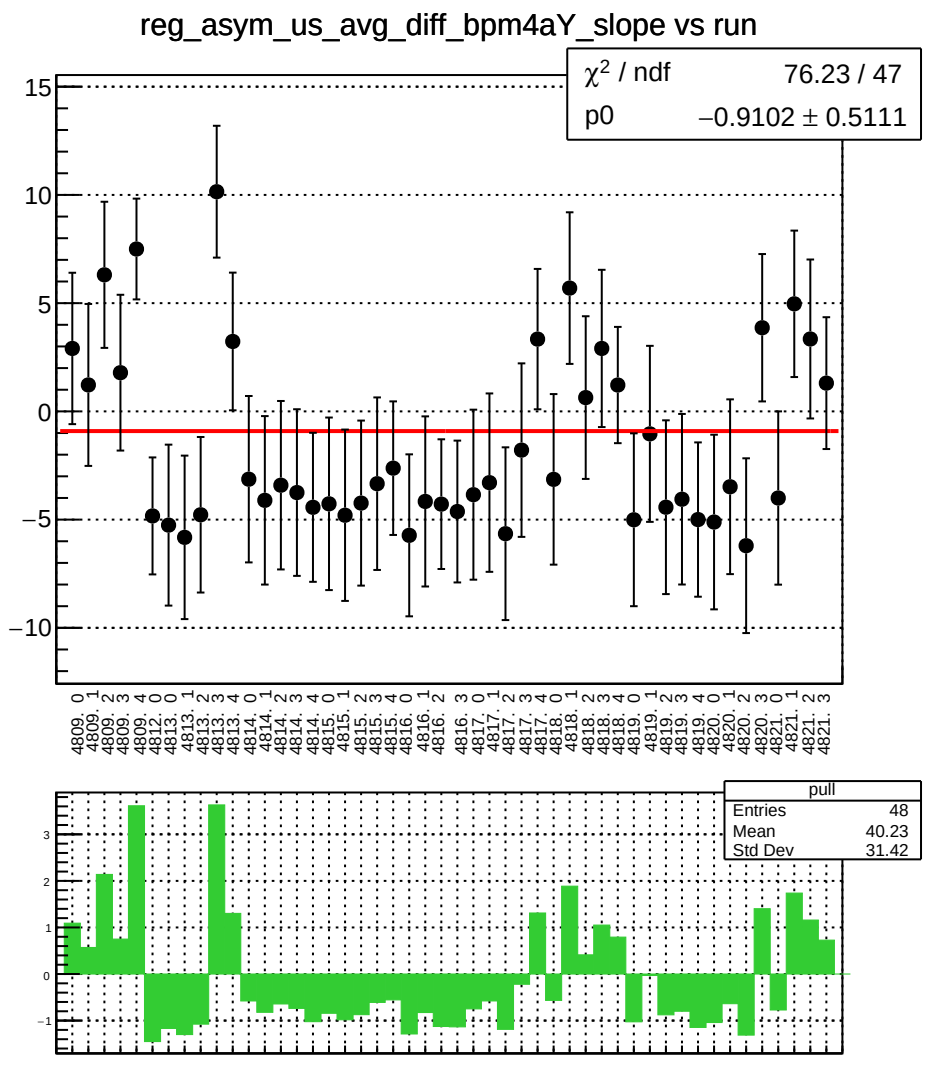

pull1D
Entries 48
Mean −0.03028
Std Dev 0.5021

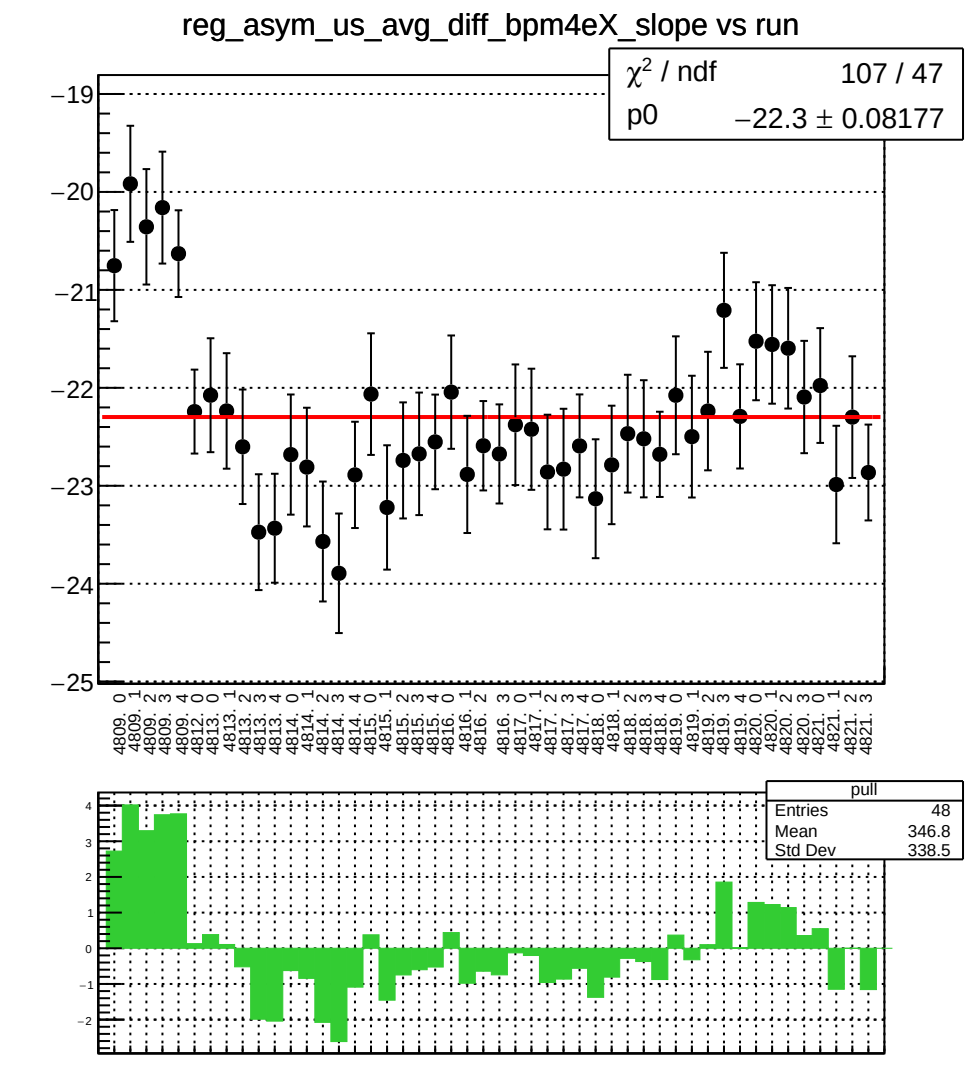

reg_asym_dsr_diff_bpm11X_slope vs run
χ² / ndf 23.66 / 47
p0 −63.02 ± 0.155
pull
Entries 48
Mean −2.467e+05
Std Dev 2.467e+05

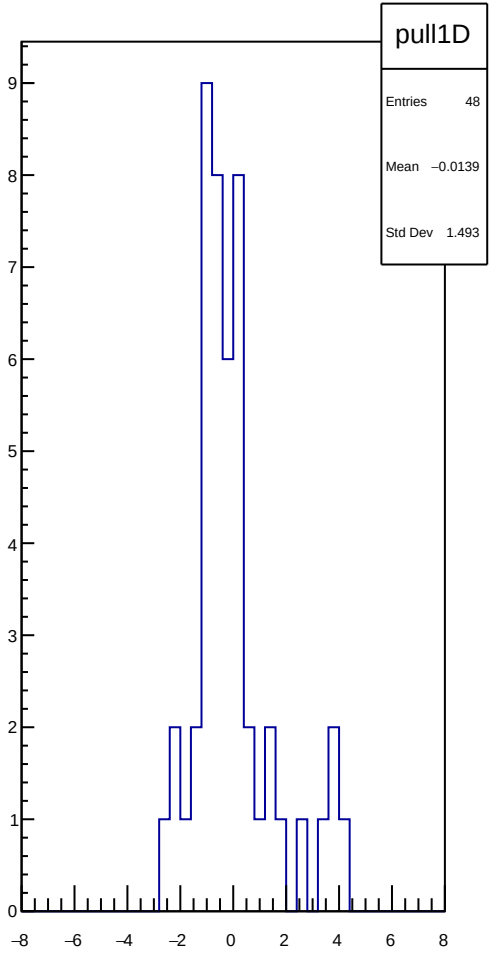

pull1D
Entries 48
Mean 2.353e−05
Std Dev 0.702

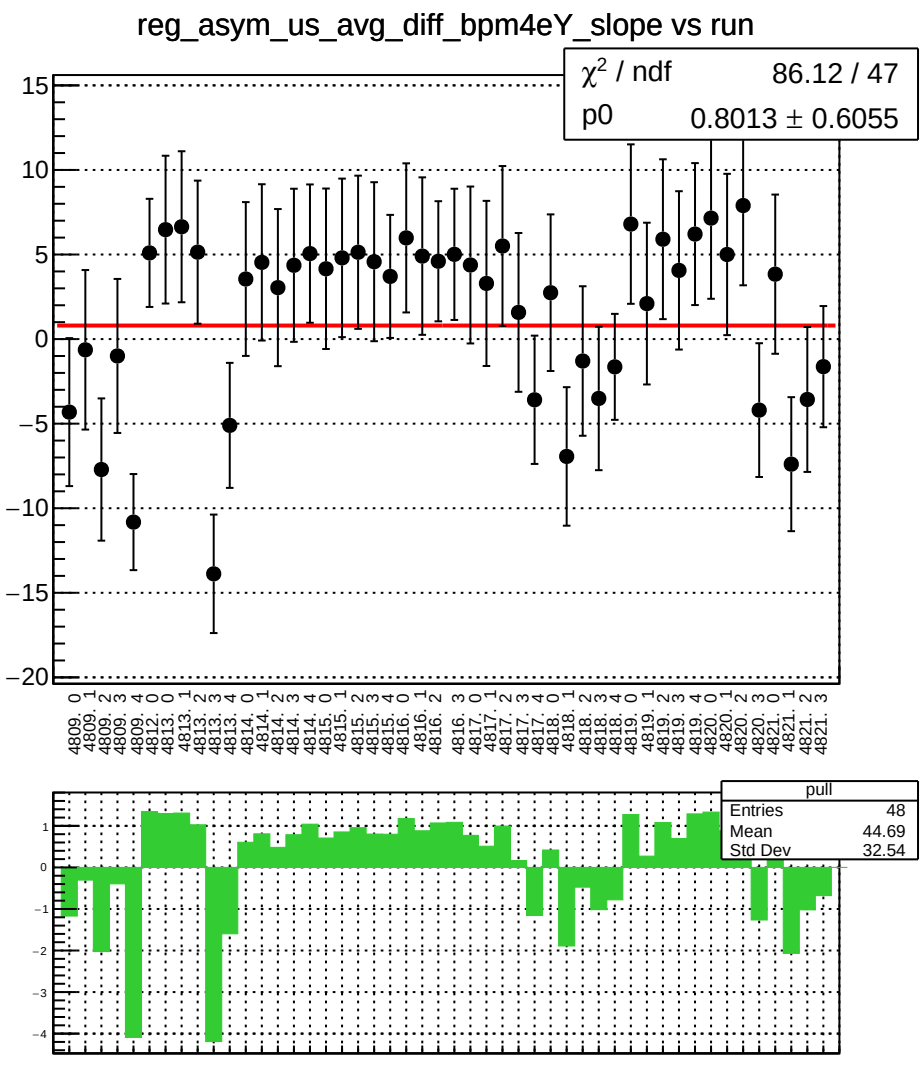

reg_asym_us_avg_diff_bpm4aX_slope vs run
χ² / ndf 50.69 / 47
p0 16.15 ± 0.4259
pull
Entries 48
Mean −179.8
Std Dev 194.1

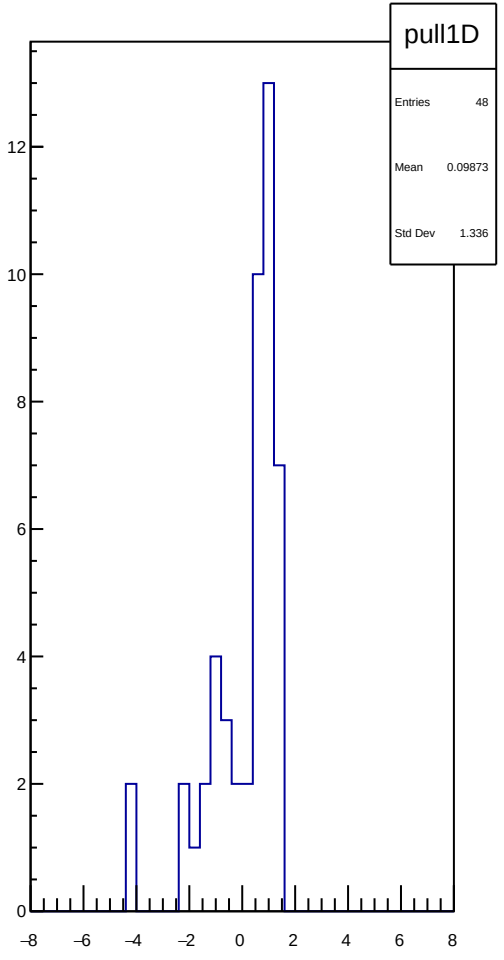

pull1D
Entries 48
Mean −0.0301
Std Dev 1.027

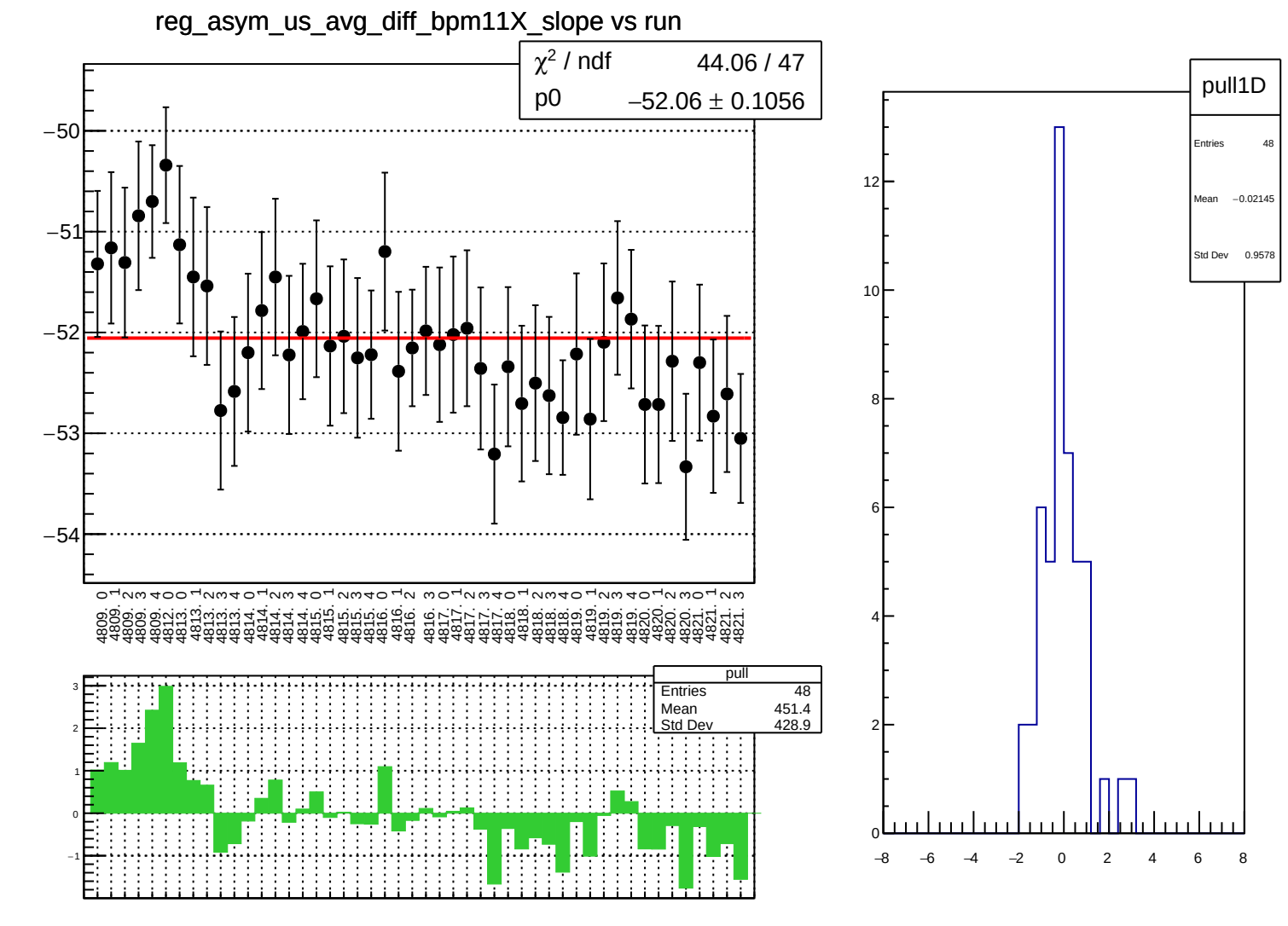

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 76.23 / 47
p0 −0.9102 ± 0.5111
15
10
5
0
−5
−10
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 40.23
Std Dev 31.42
3
2
1
0
−1
pull1D
Entries 48
Mean −0.09174
Std Dev 1.257
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

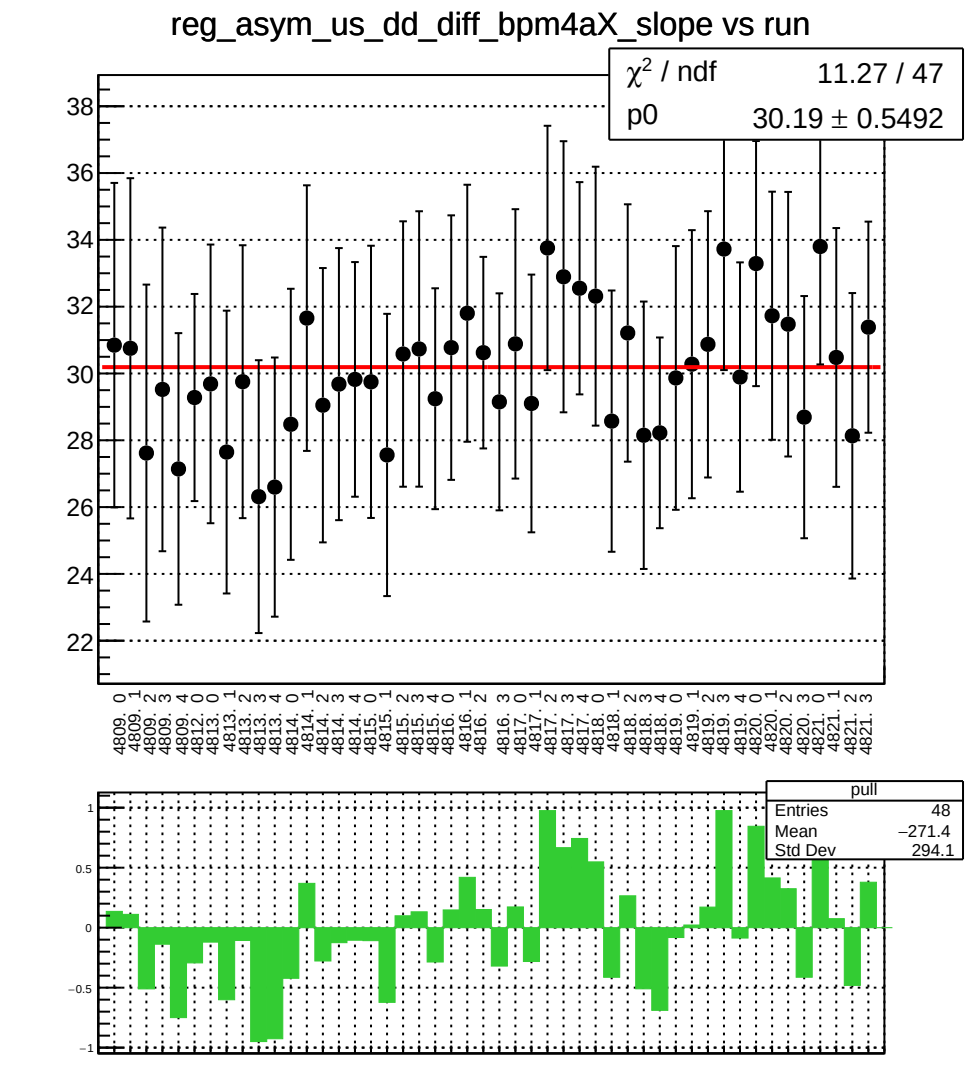

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 107 / 47
p0 −22.3 ± 0.08177
pull
Entries 48
Mean 346.8
Std Dev 338.5

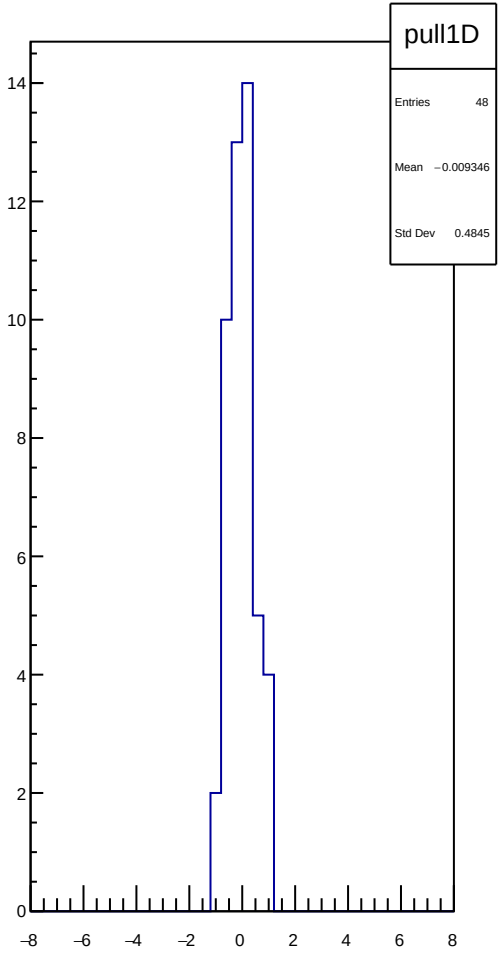

pull1D
Entries 48
Mean −0.0139
Std Dev 1.493

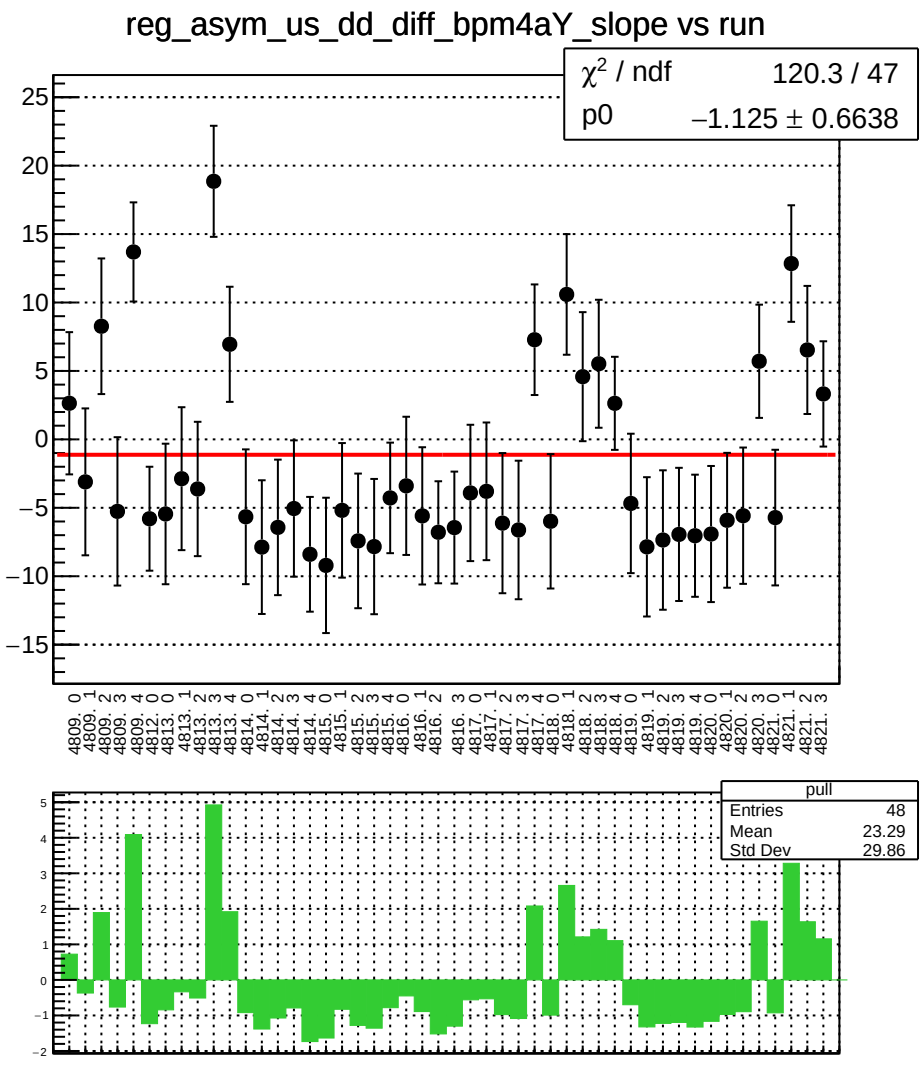

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 86.12 / 47
p0 0.8013 ± 0.6055
pull
Entries 48
Mean 44.69
Std Dev 32.54

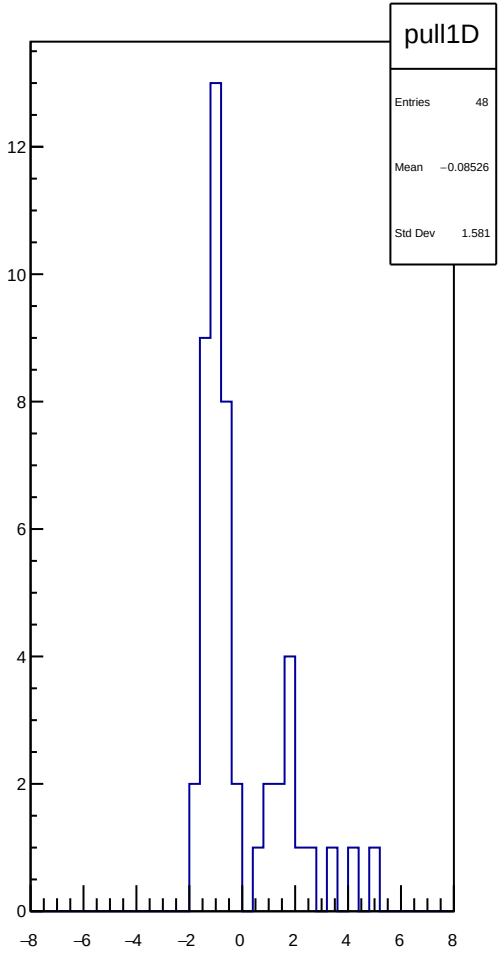

pull1D
Entries 48
Mean 0.09873
Std Dev 1.336

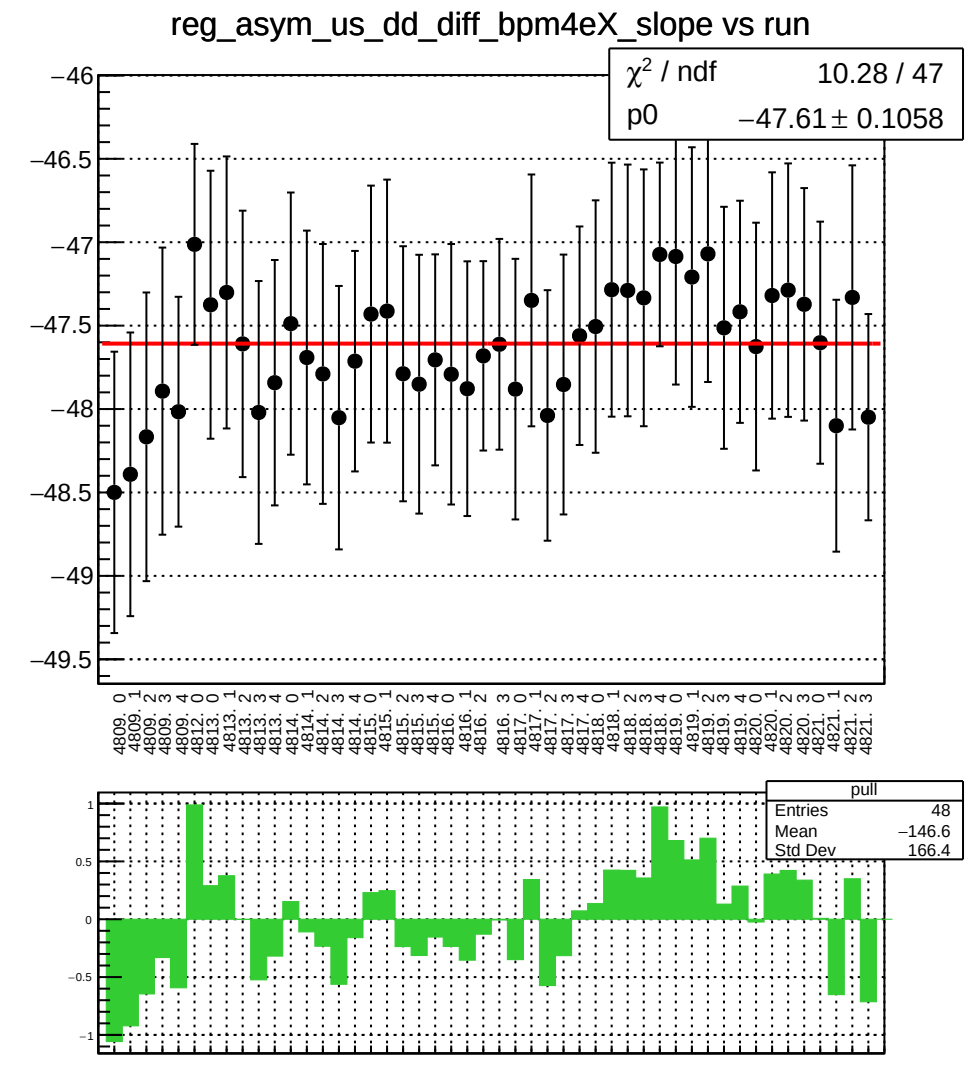

reg_asym_us_avg_diff_bpm11X_slope vs run
χ² / ndf 44.06 / 47
p0 −52.06 ± 0.1056
−50
−51
−52
−53
−54
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 451.4
Std Dev 428.9
3
2
1
0
−1
pull1D
Entries 48
Mean −0.02145
Std Dev 0.9578
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

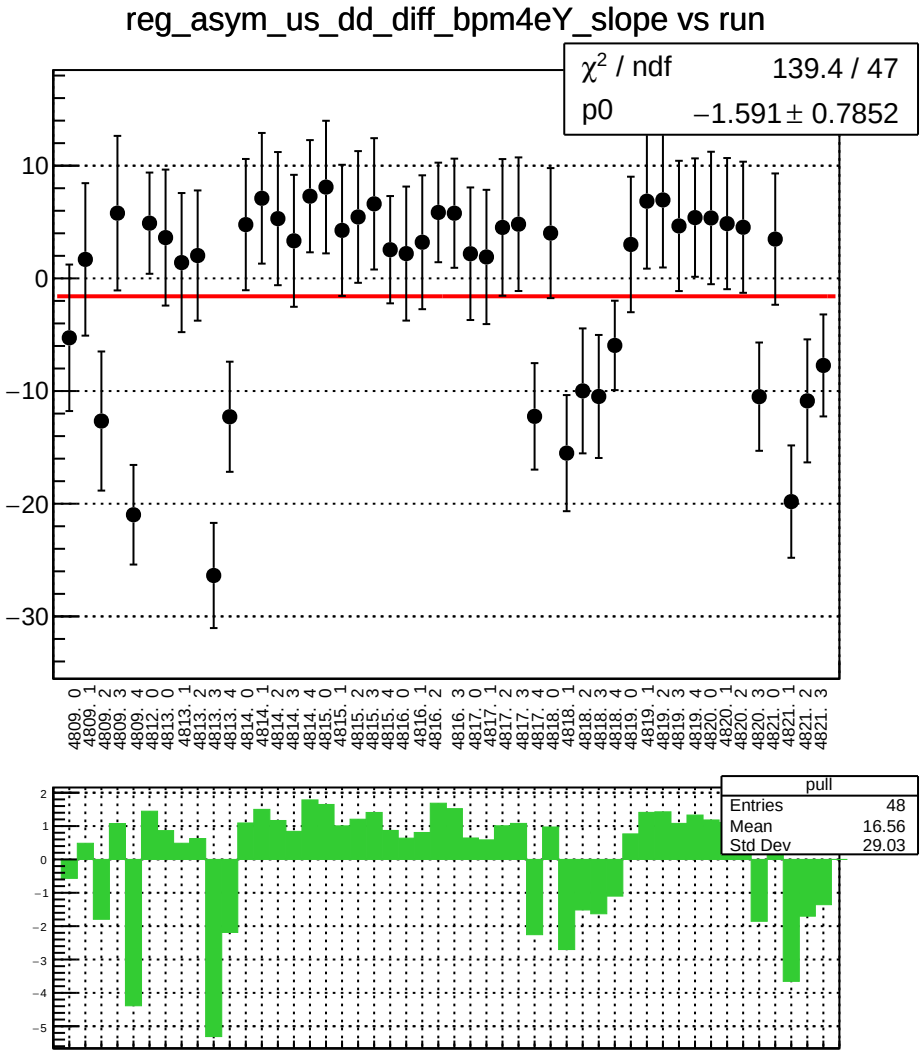

reg_asym_us_dd_diff_bpm4aX_slope vs run
χ² / ndf 11.27 / 47
p0 30.19 ± 0.5492
pull
Entries 48
Mean −271.4
Std Dev 294.1

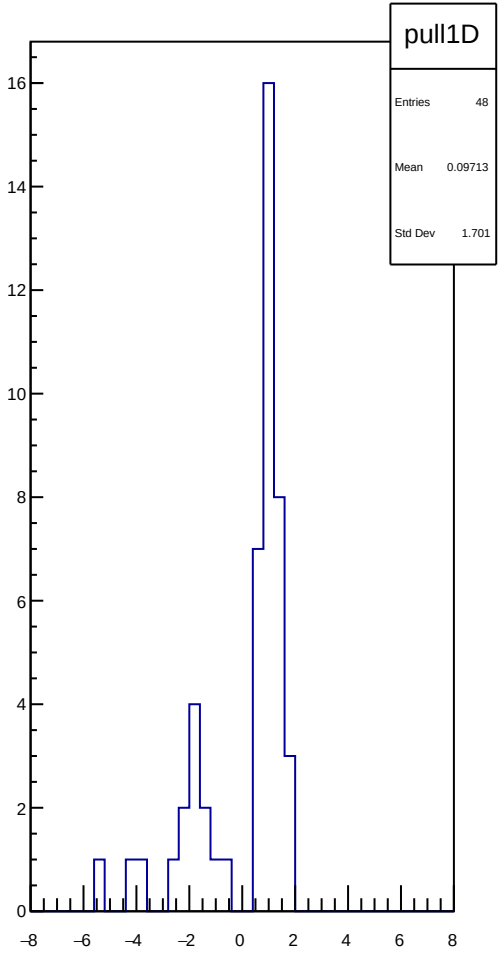

pull1D
Entries 48
Mean −0.009346
Std Dev 0.4845

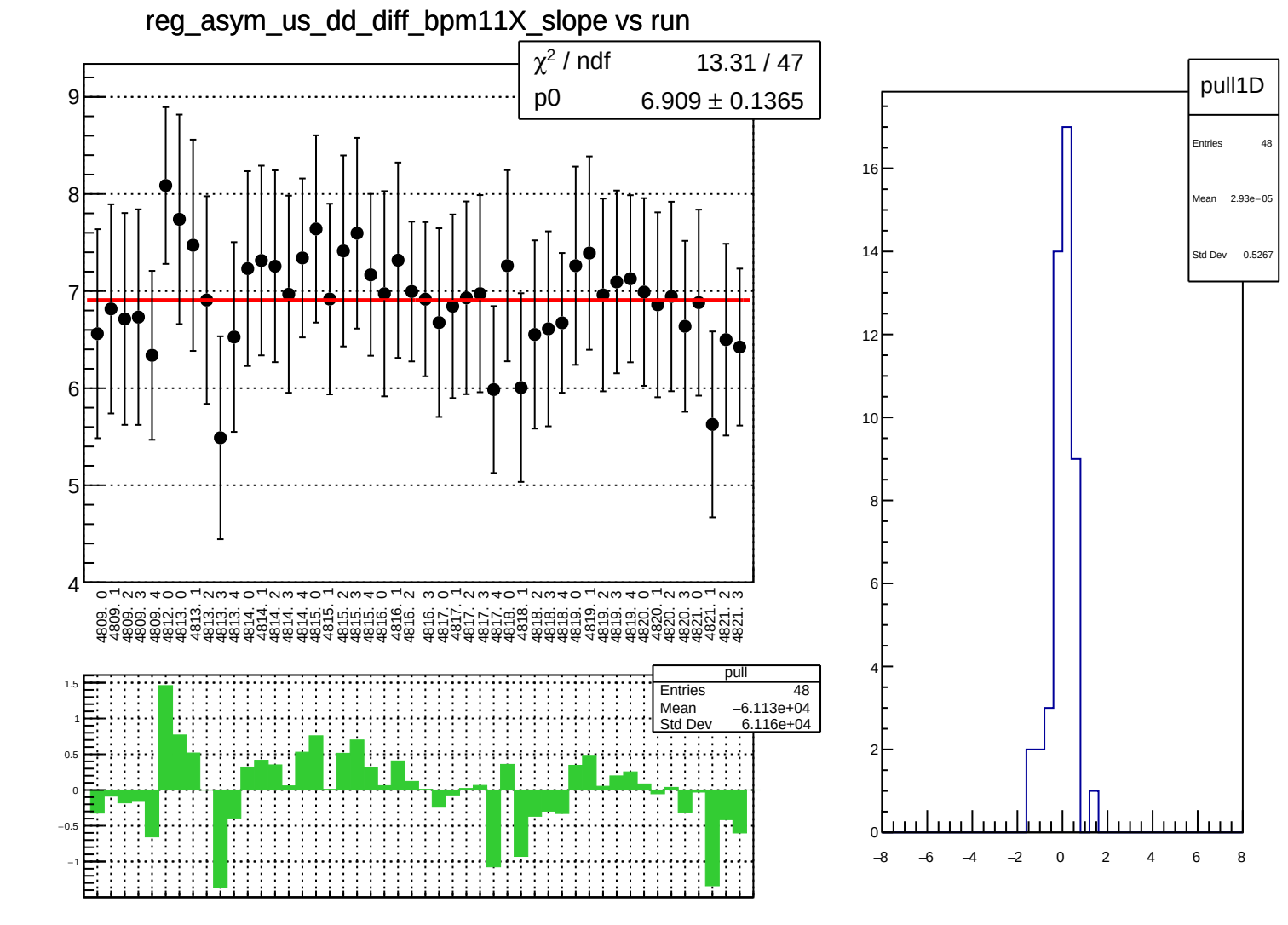

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 120.3 / 47
p0 −1.125 ± 0.6638
pull
Entries 48
Mean 23.29
Std Dev 29.86

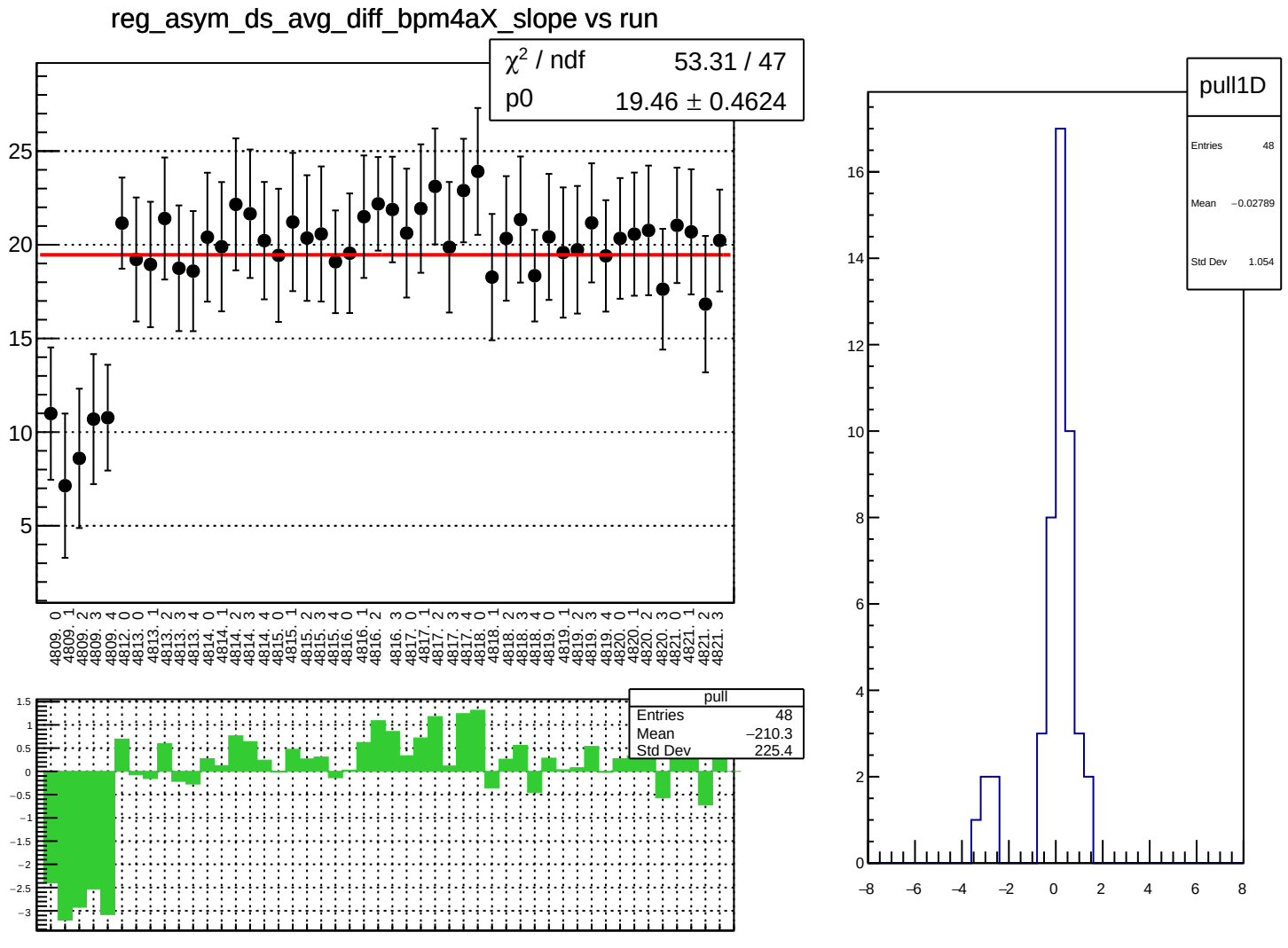

pull1D
Entries 48
Mean −0.08526
Std Dev 1.581

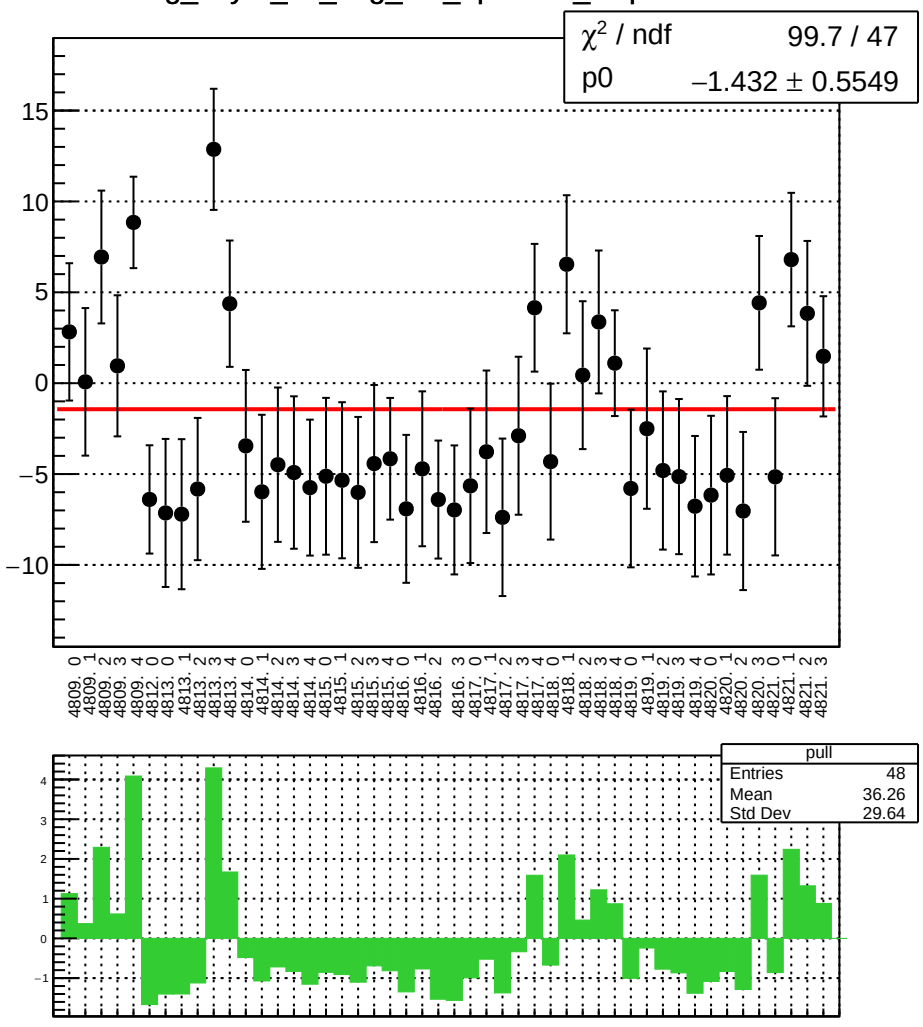

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 10.28 / 47
p0 −47.61 ± 0.1058
−46
−46.5
−47
−47.5
−48
−48.5
−49
−49.5
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean −146.6
Std Dev 166.4
1
0.5
0
−0.5
−1
pull1D
Entries 48
Mean −0.01421
Std Dev 0.4626
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

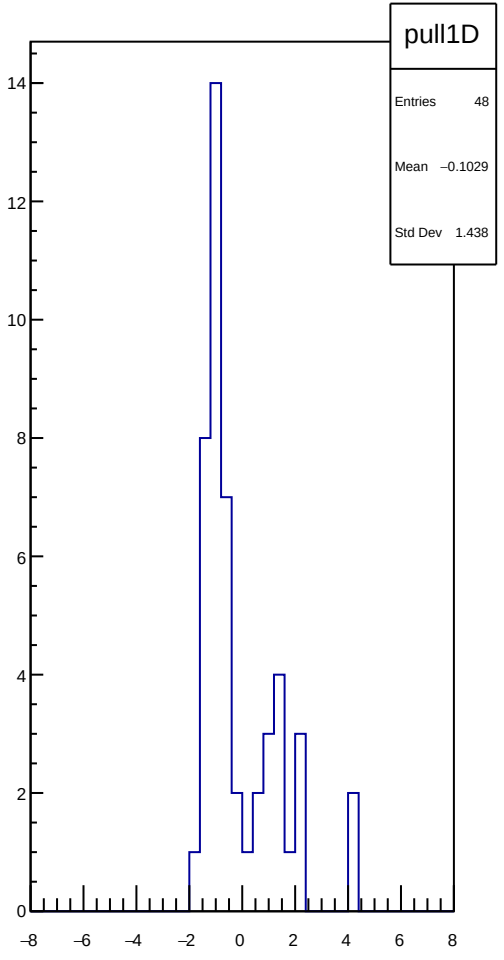

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 139.4 / 47
p0 −1.591 ± 0.7852
10
0
−10
−20
−30
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 16.56
Std Dev 29.03
2
1
0
−1
−2
−3
−4
−5

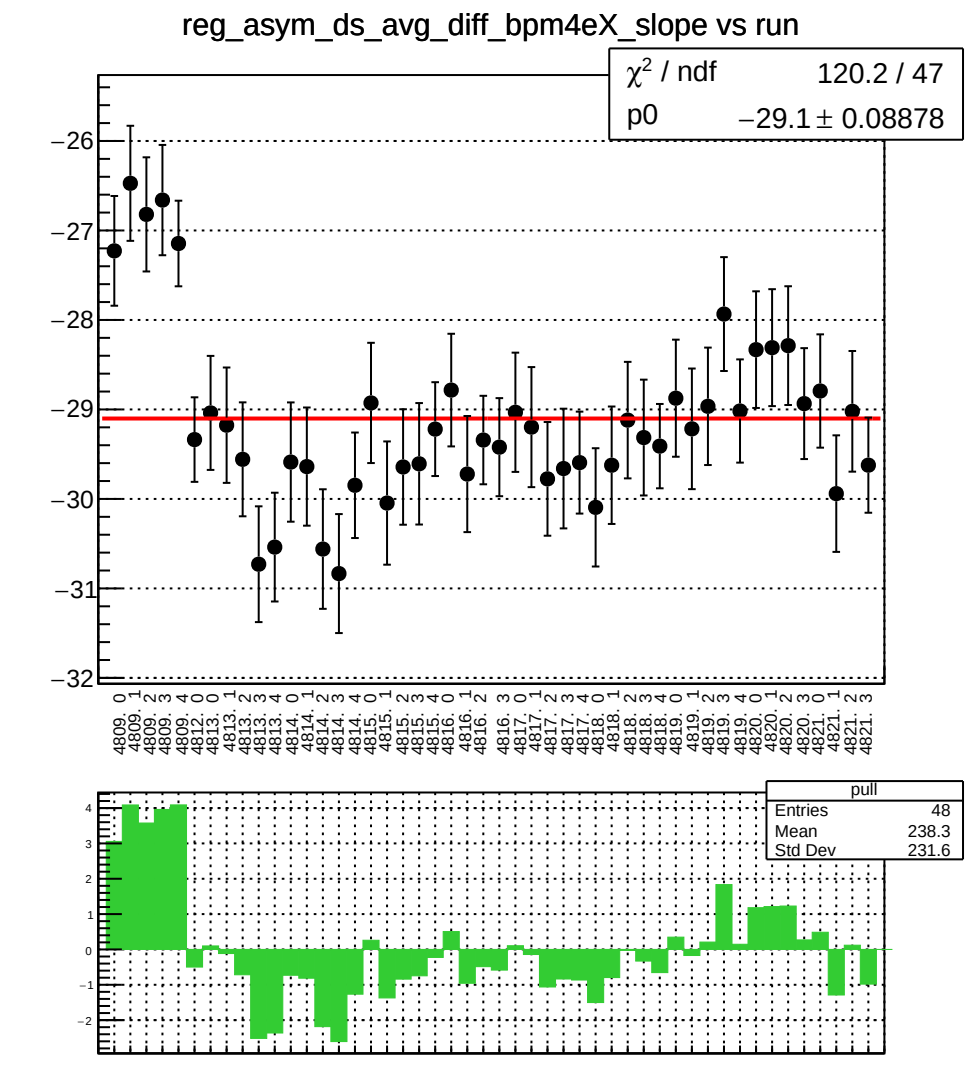

pull1D
Entries 48
Mean 0.09713
Std Dev 1.701
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

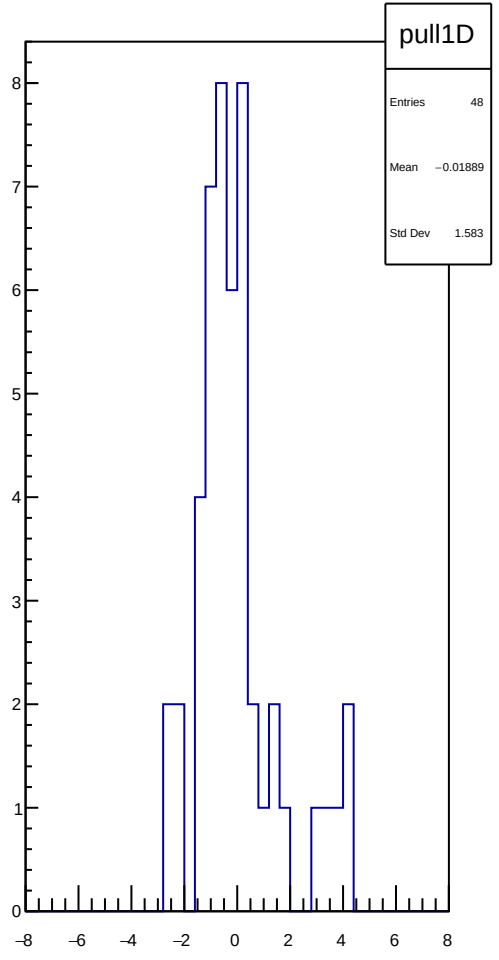

reg_asym_us_dd_diff_bpm11X_slope vs run
χ² / ndf 13.31 / 47
p0 6.909 ± 0.1365
pull
Entries 48
Mean −6.113e+04
Std Dev 6.116e+04
pull1D
Entries 48
Mean 2.93e−05
Std Dev 0.5267

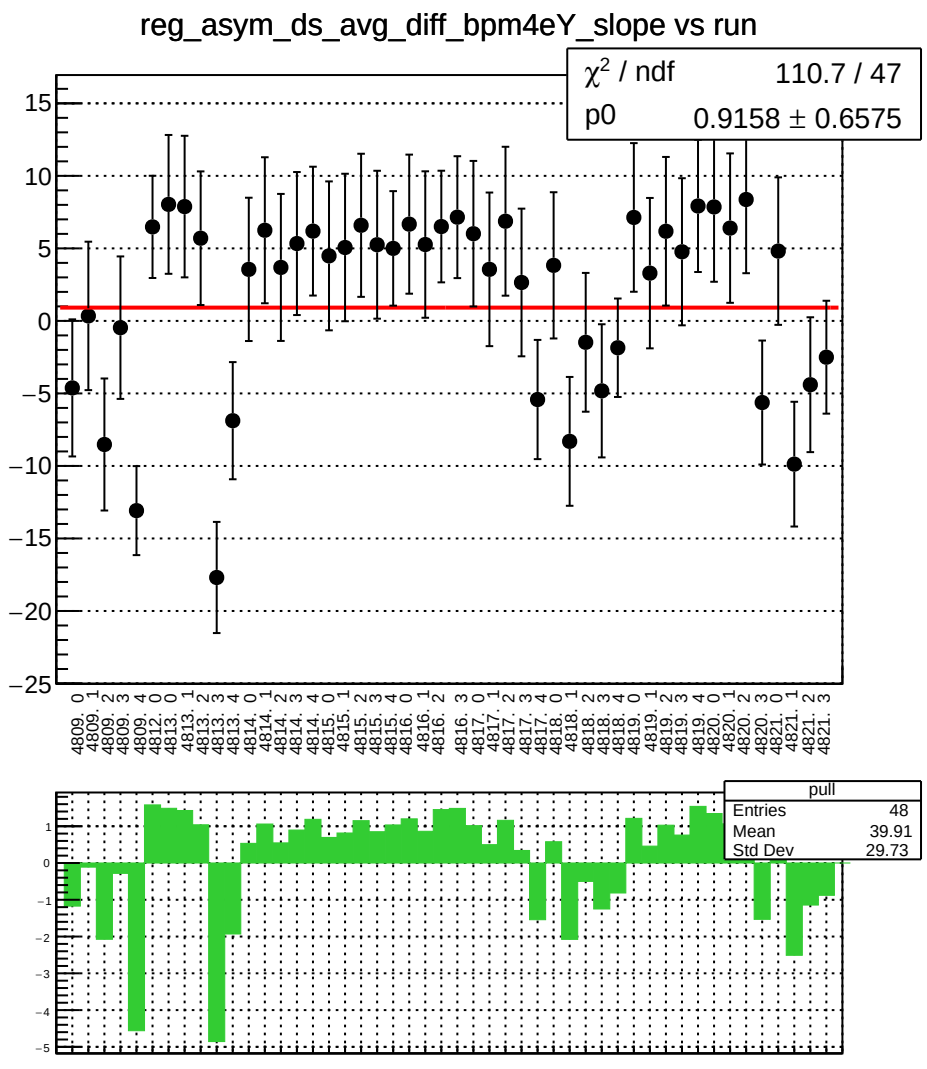

reg_asym_ds_avg_diff_bpm4aX_slope vs run
χ² / ndf 53.31 / 47
p0 19.46 ± 0.4624
pull
Entries 48
Mean −210.3
Std Dev 225.4
pull1D
Entries 48
Mean −0.02789
Std Dev 1.054

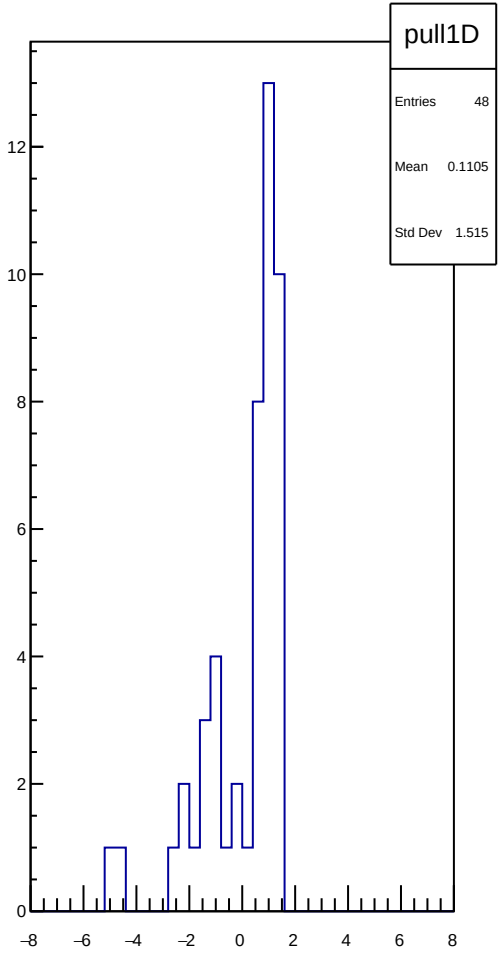

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 99.7 / 47
p0 −1.432 ± 0.5549
pull
Entries 48
Mean 36.26
Std Dev 29.64

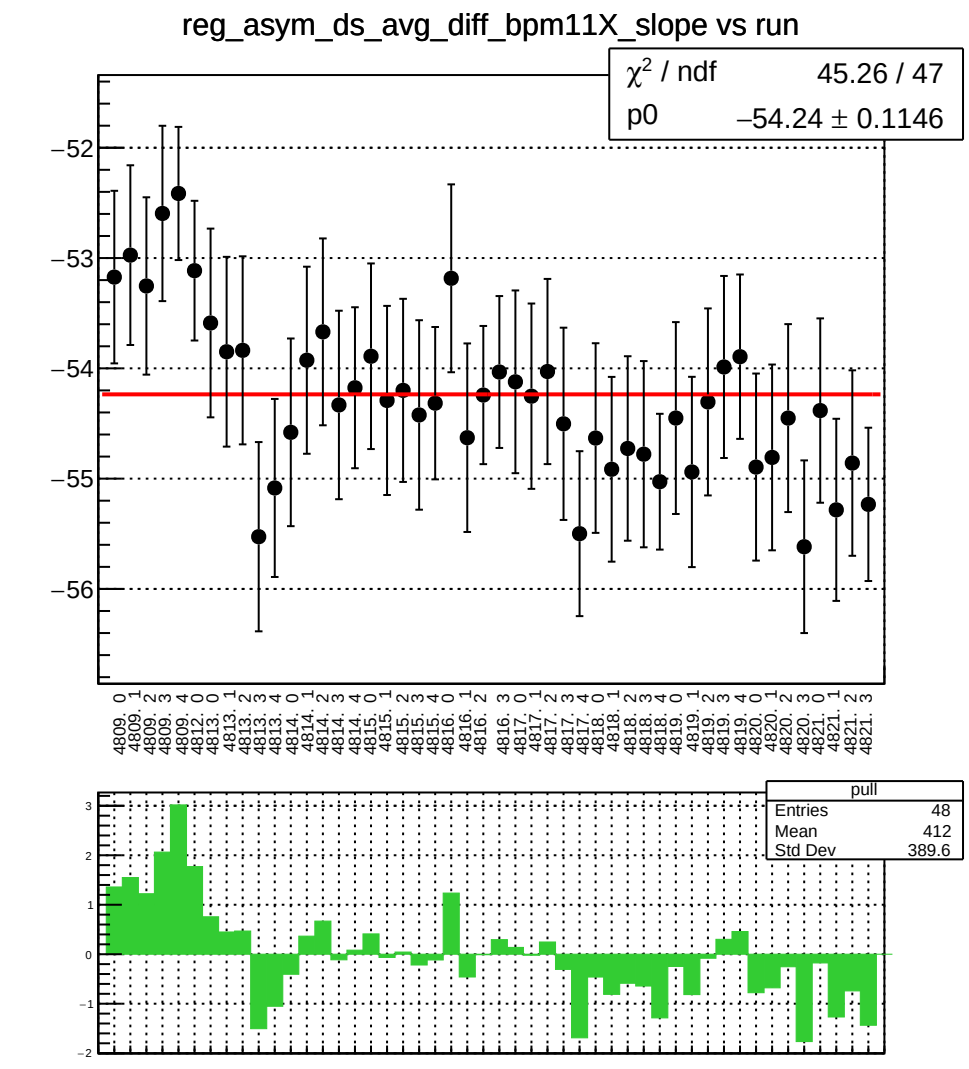

pull1D
Entries 48
Mean −0.1029
Std Dev 1.438

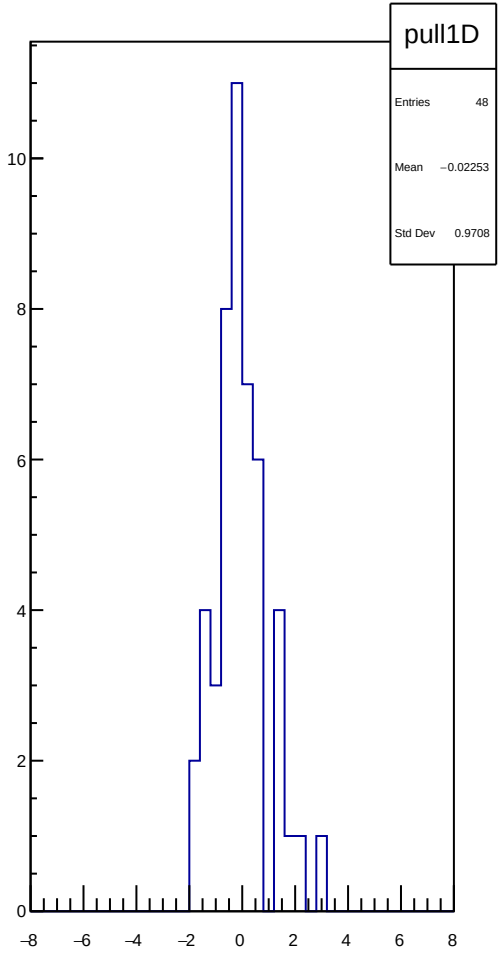

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 120.2 / 47
p0 −29.1 ± 0.08878
pull
Entries 48
Mean 238.3
Std Dev 231.6

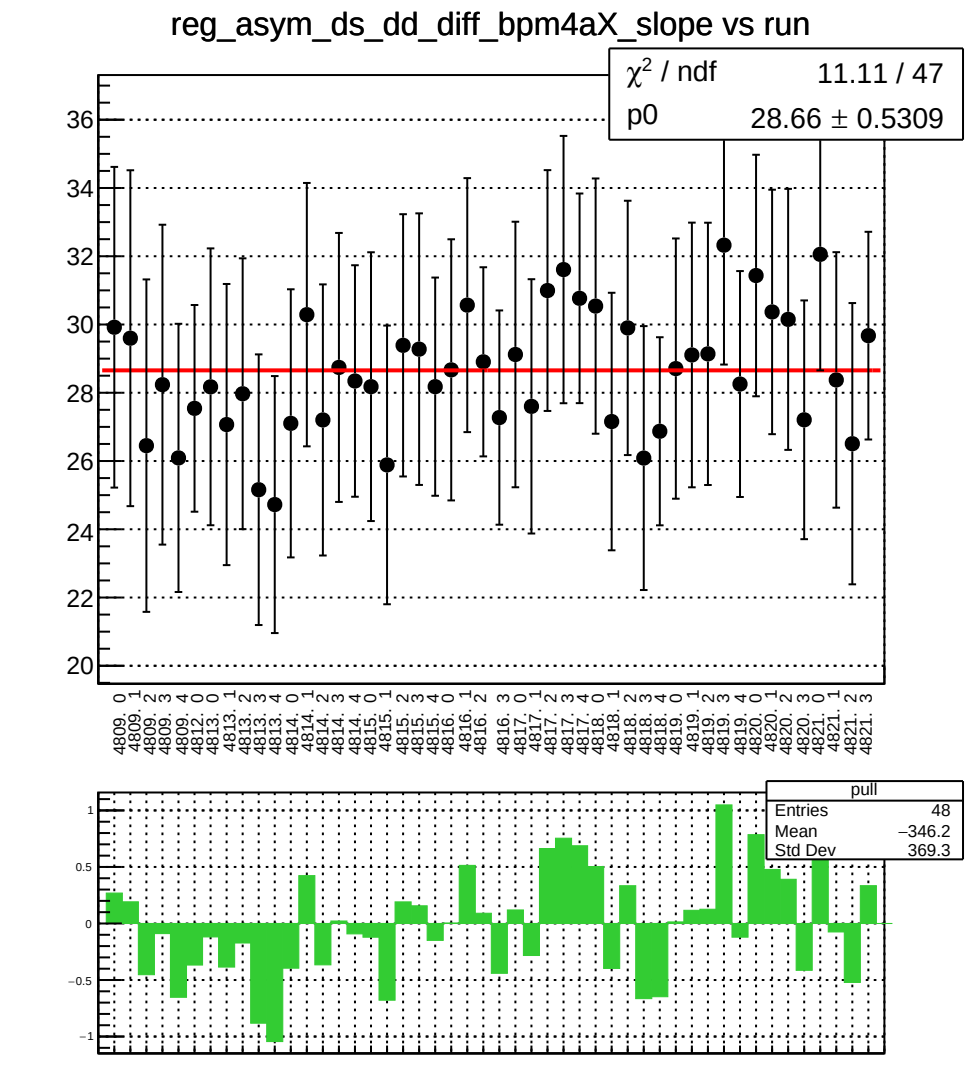

pull1D
Entries 48
Mean −0.01889
Std Dev 1.583

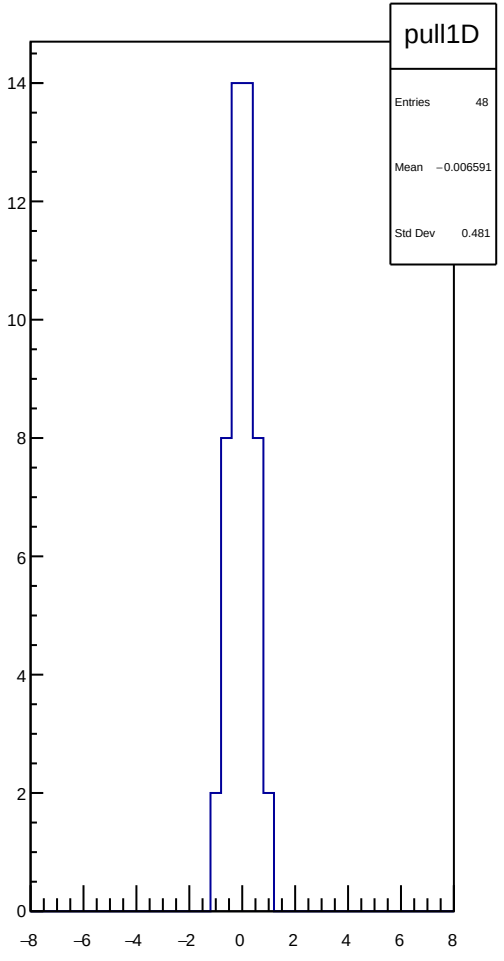

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 110.7 / 47
p0 0.9158 ± 0.6575
pull
Entries 48
Mean 39.91
Std Dev 29.73

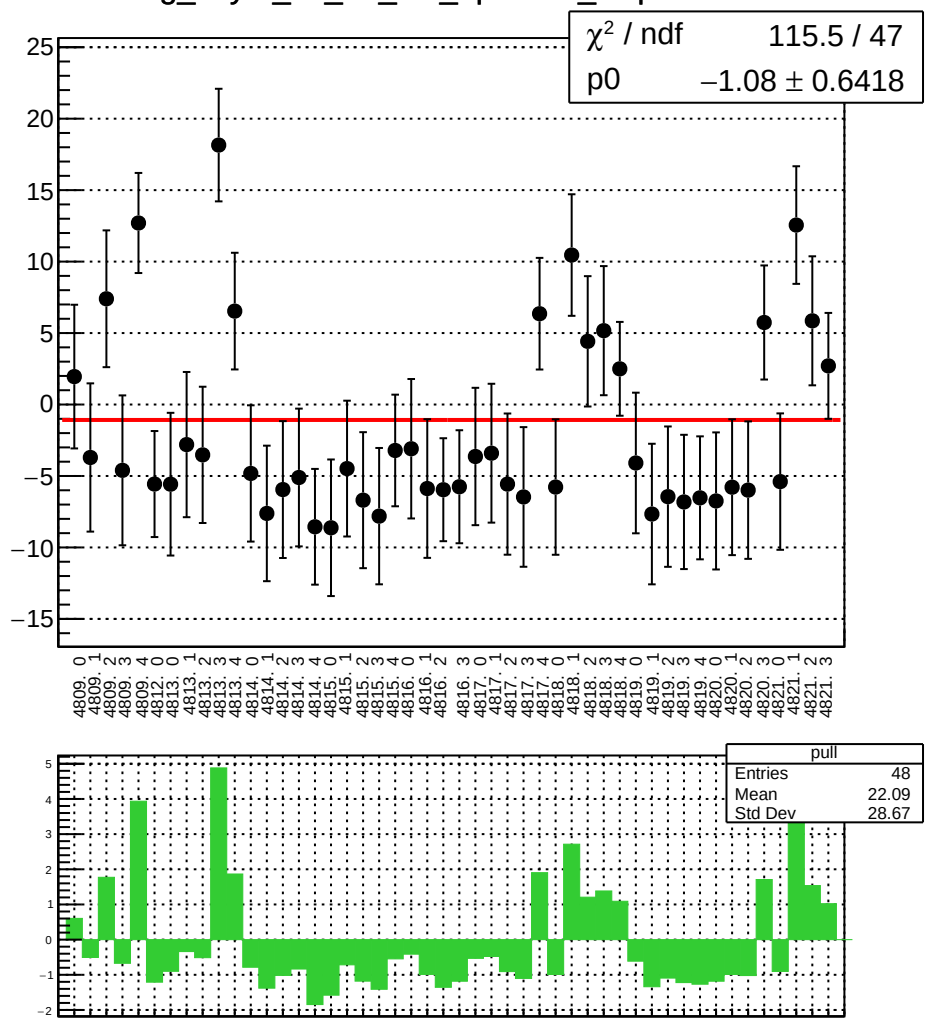

pull1D
Entries 48
Mean 0.1105
Std Dev 1.515

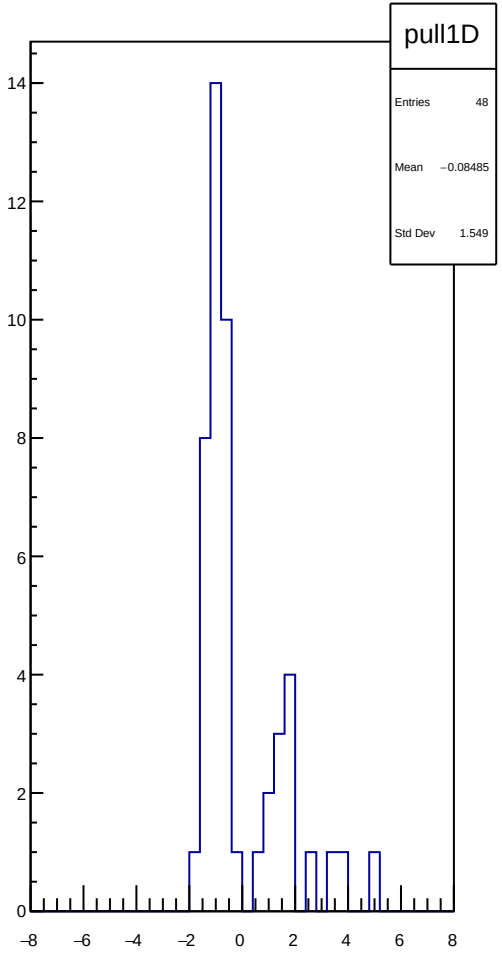

reg_asym_ds_avg_diff_bpm11X_slope vs run
χ² / ndf 45.26 / 47
p0 −54.24 ± 0.1146
pull
Entries 48
Mean 412
Std Dev 389.6

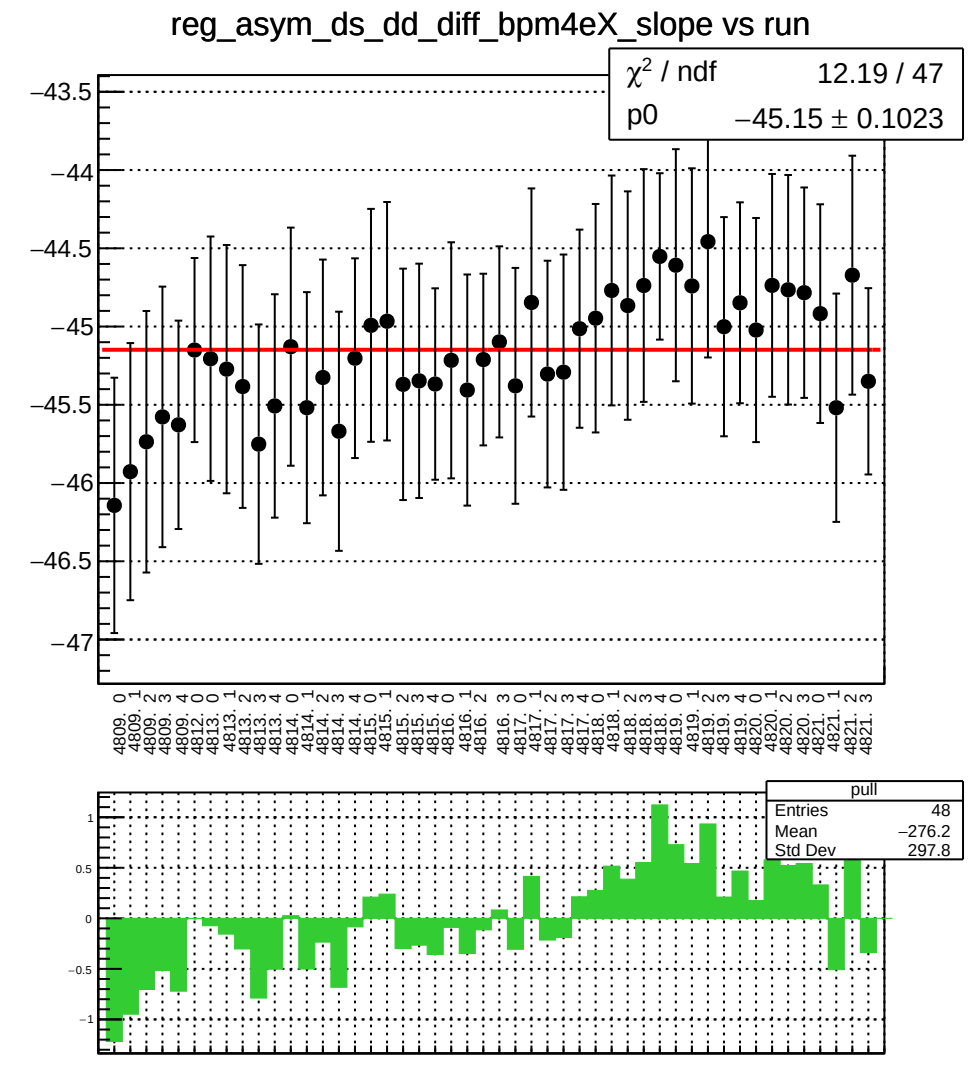

pull1D
Entries 48
Mean −0.02253
Std Dev 0.9708

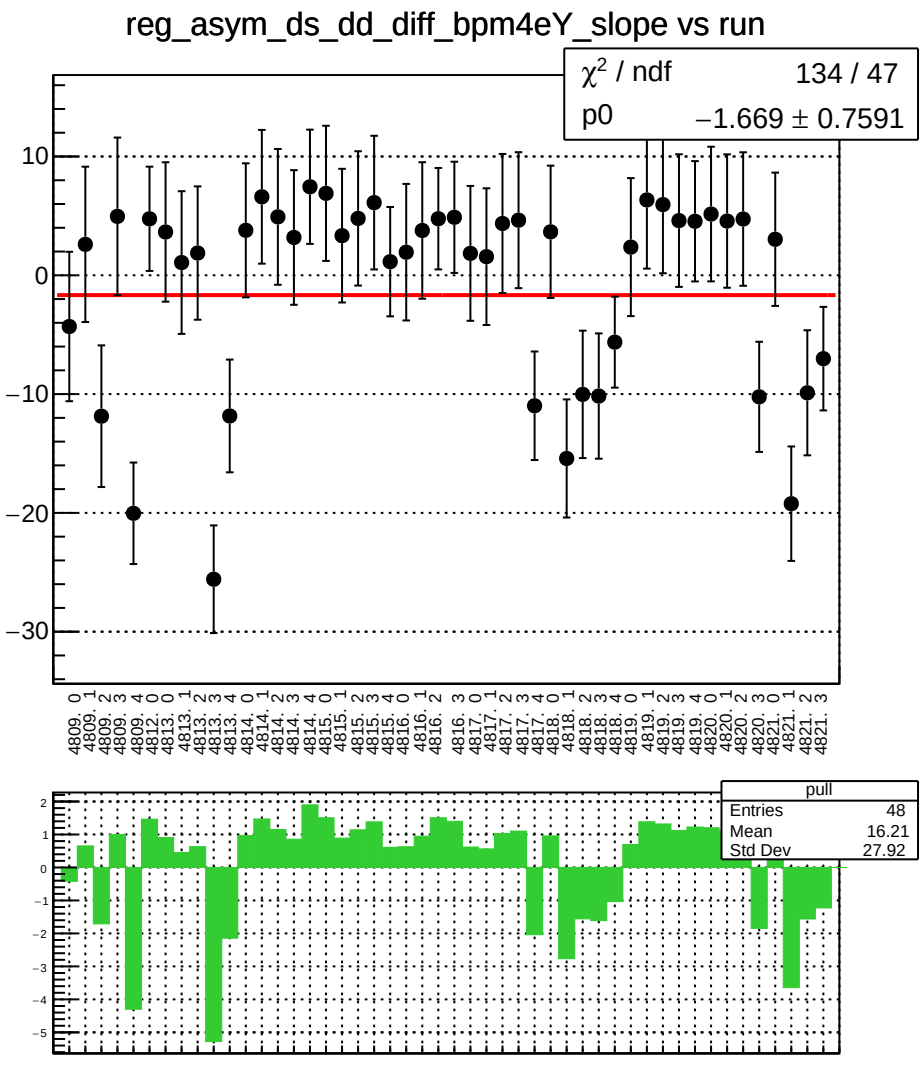

reg_asym_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 11.11 / 47
p0 28.66 ± 0.5309
pull
Entries 48
Mean −346.2
Std Dev 369.3

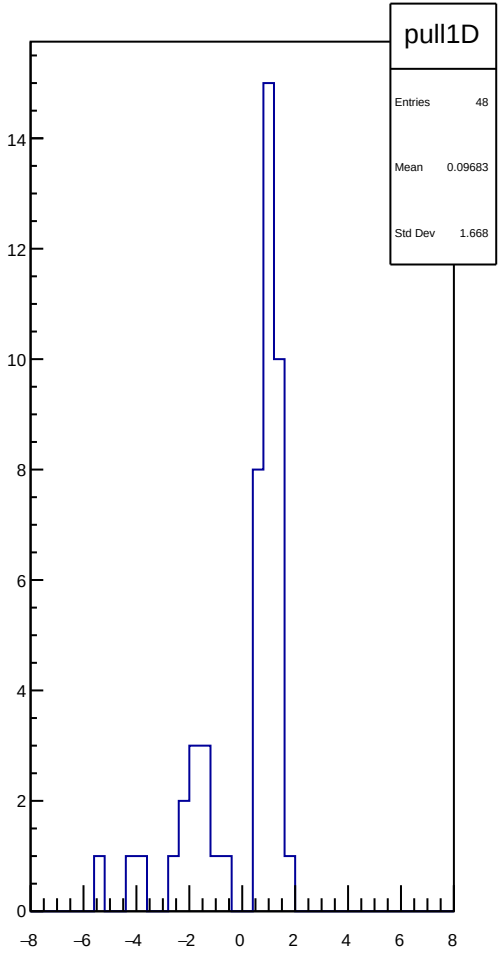

pull1D
Entries 48
Mean −0.006591
Std Dev 0.481

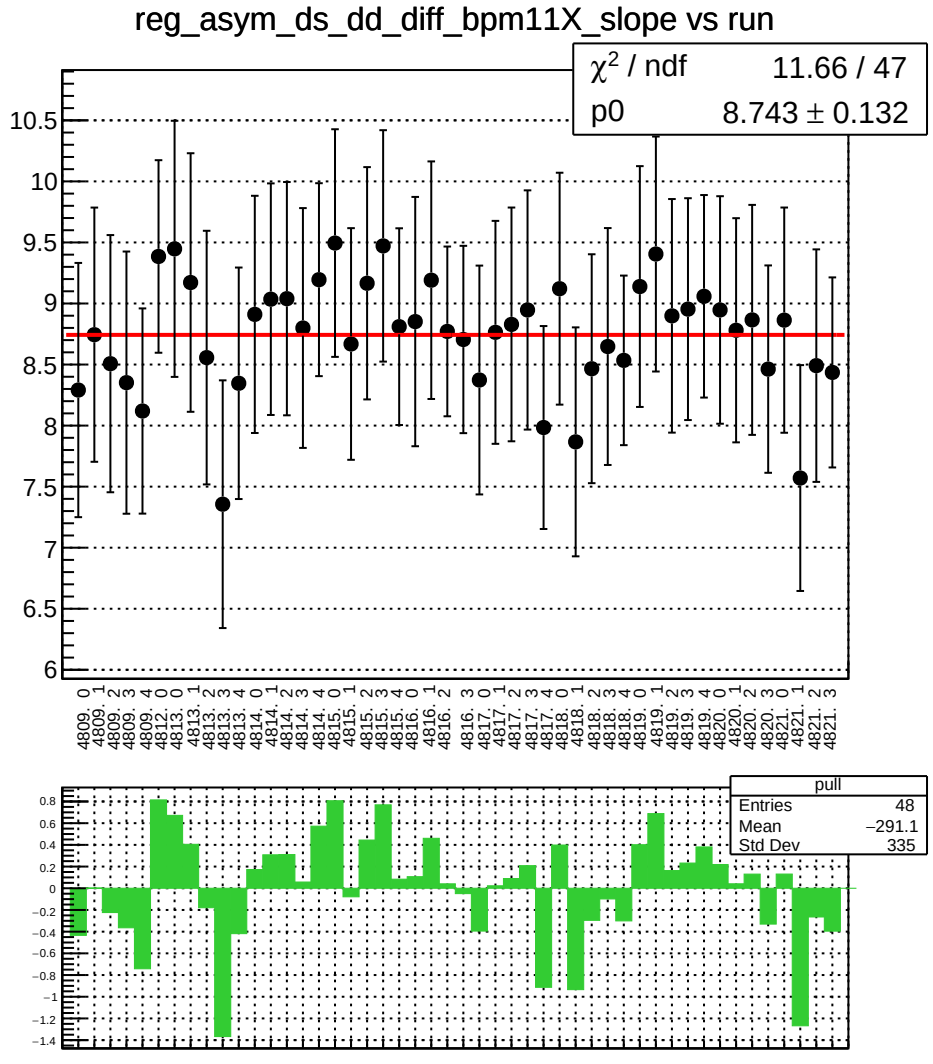

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 115.5 / 47
p0 −1.08 ± 0.6418
pull
Entries 48
Mean 22.09
Std Dev 28.67

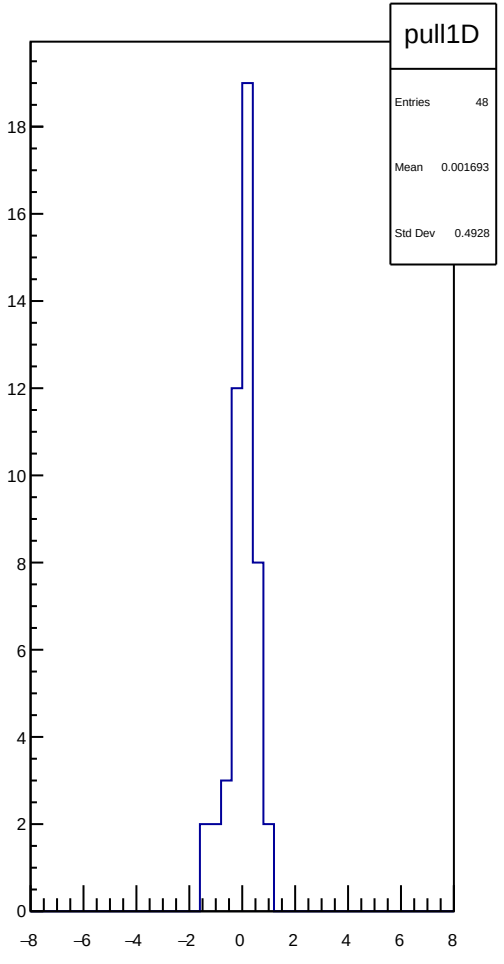

pull1D
Entries 48
Mean −0.08485
Std Dev 1.549

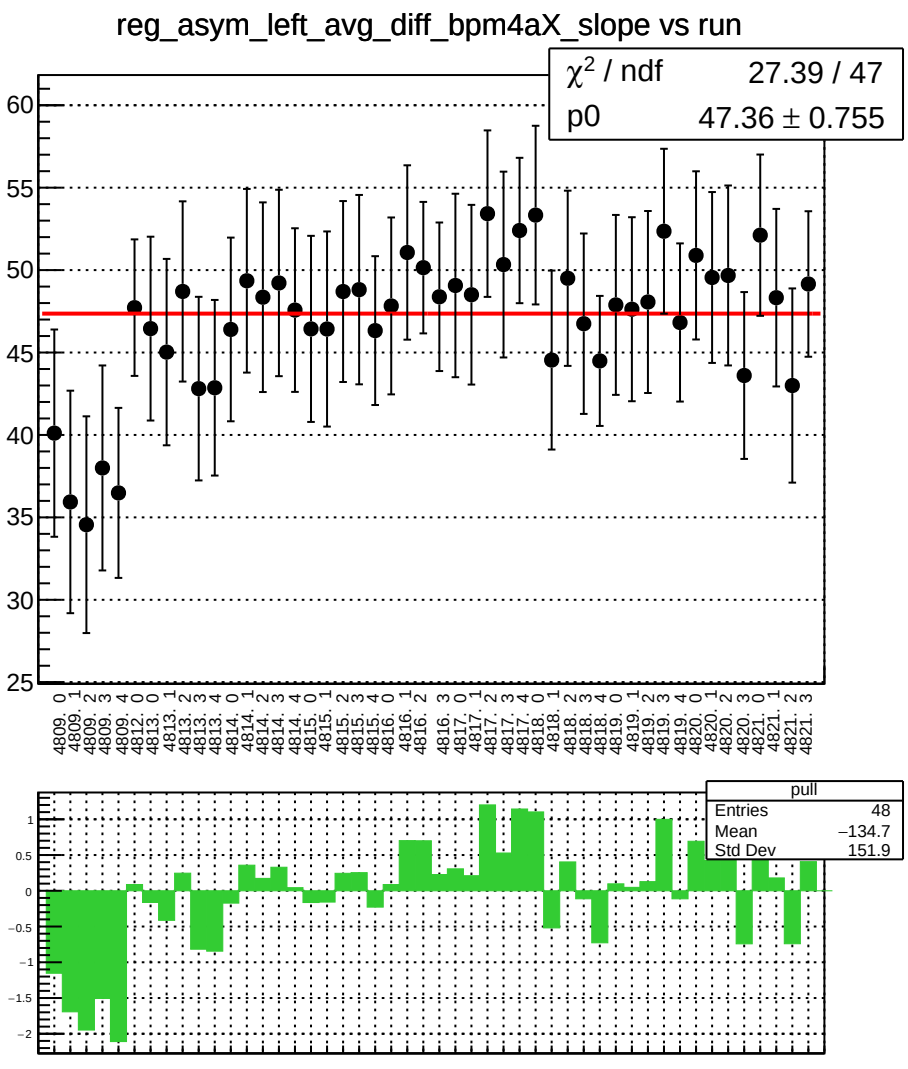

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 12.19 / 47
p0 −45.15 ± 0.1023
−43.5
−44
−44.5
−45
−45.5
−46
−46.5
−47
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean −276.2
Std Dev 297.8
1
0.5
0
−0.5
−1
pull1D
Entries 48
Mean −0.01616
Std Dev 0.5037
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

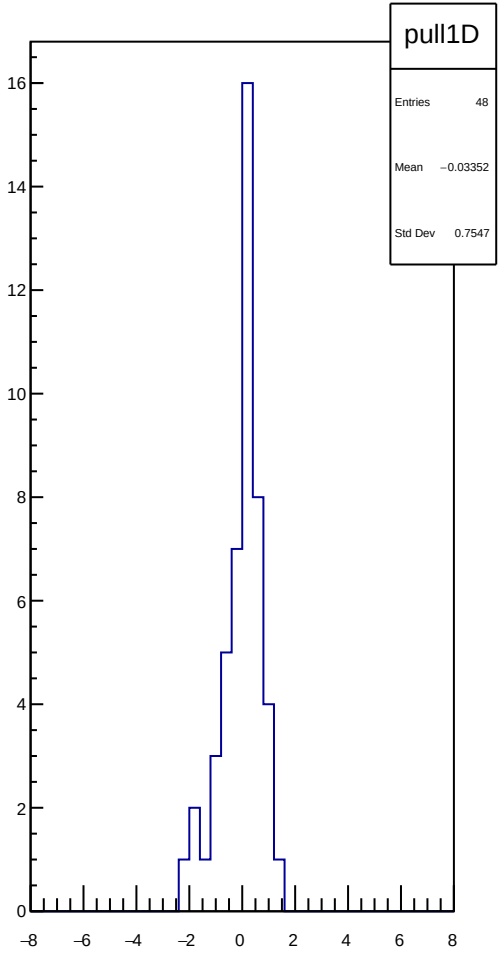

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 134 / 47
p0 −1.669 ± 0.7591
10
0
−10
−20
−30
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 16.21
Std Dev 27.92
2
1
0
−1
−2
−3
−4
−5

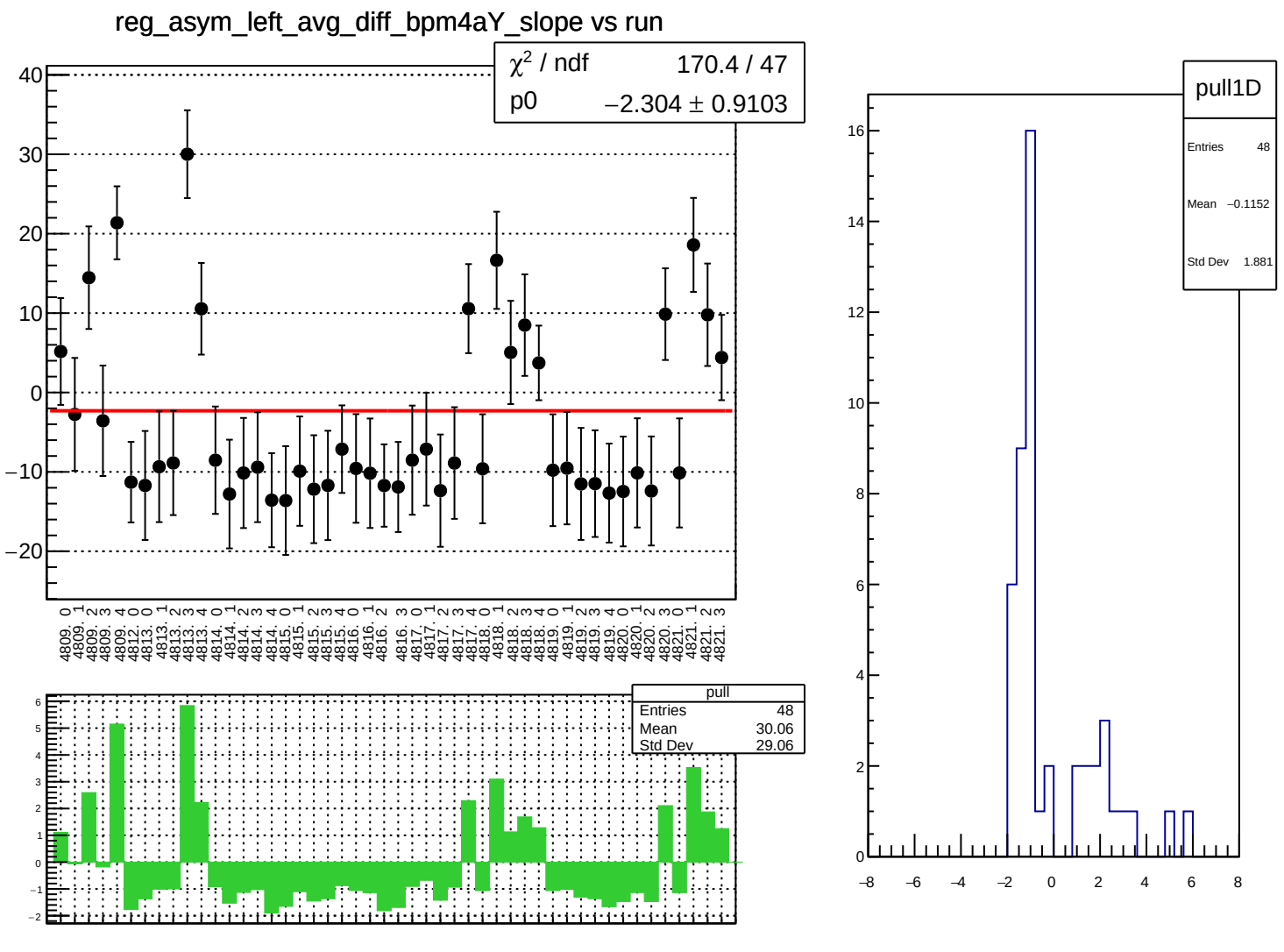

pull1D
Entries 48
Mean 0.09683
Std Dev 1.668
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

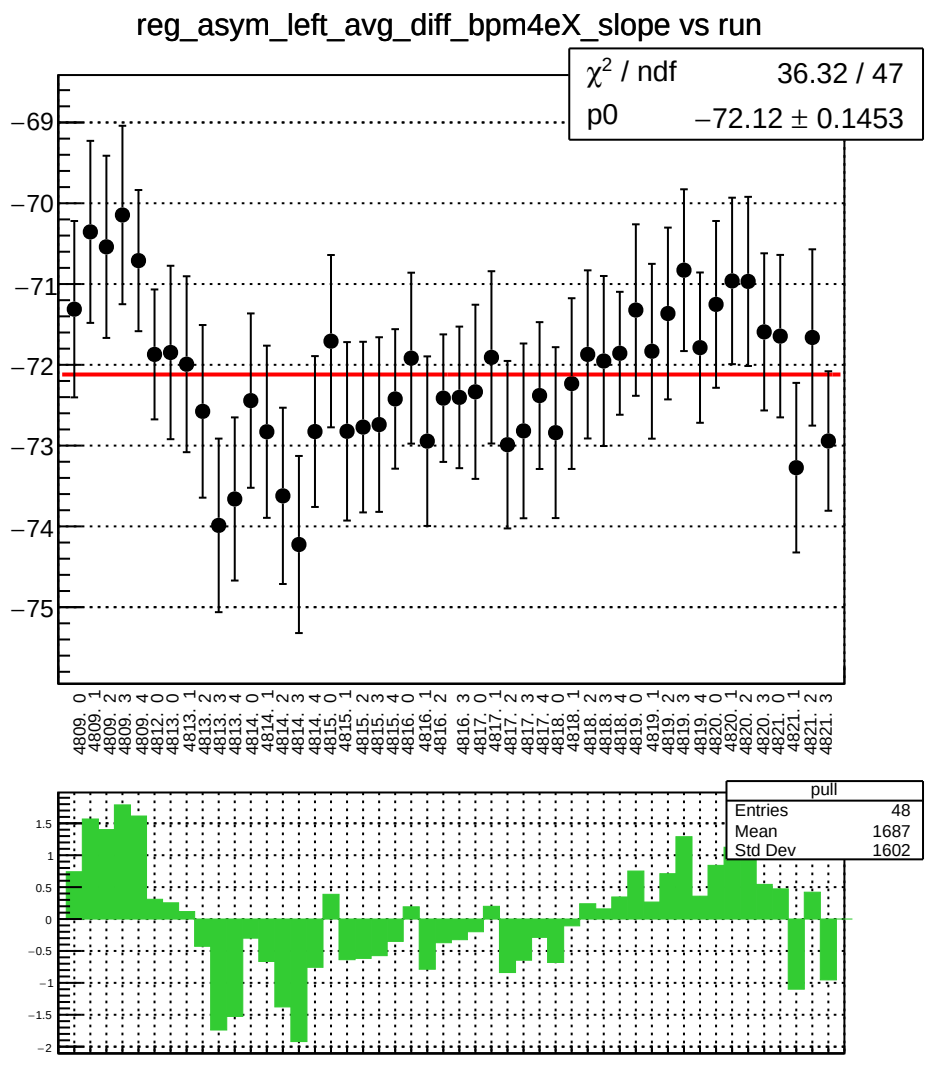

reg_asym_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 11.66 / 47
p0 8.743 ± 0.132
pull
Entries 48
Mean −291.1
Std Dev 335

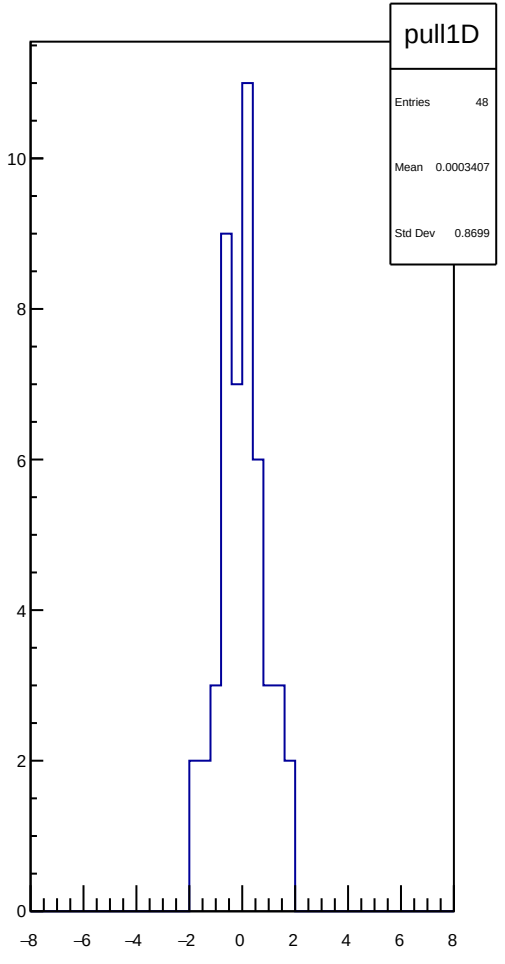

pull1D
Entries 48
Mean 0.001693
Std Dev 0.4928

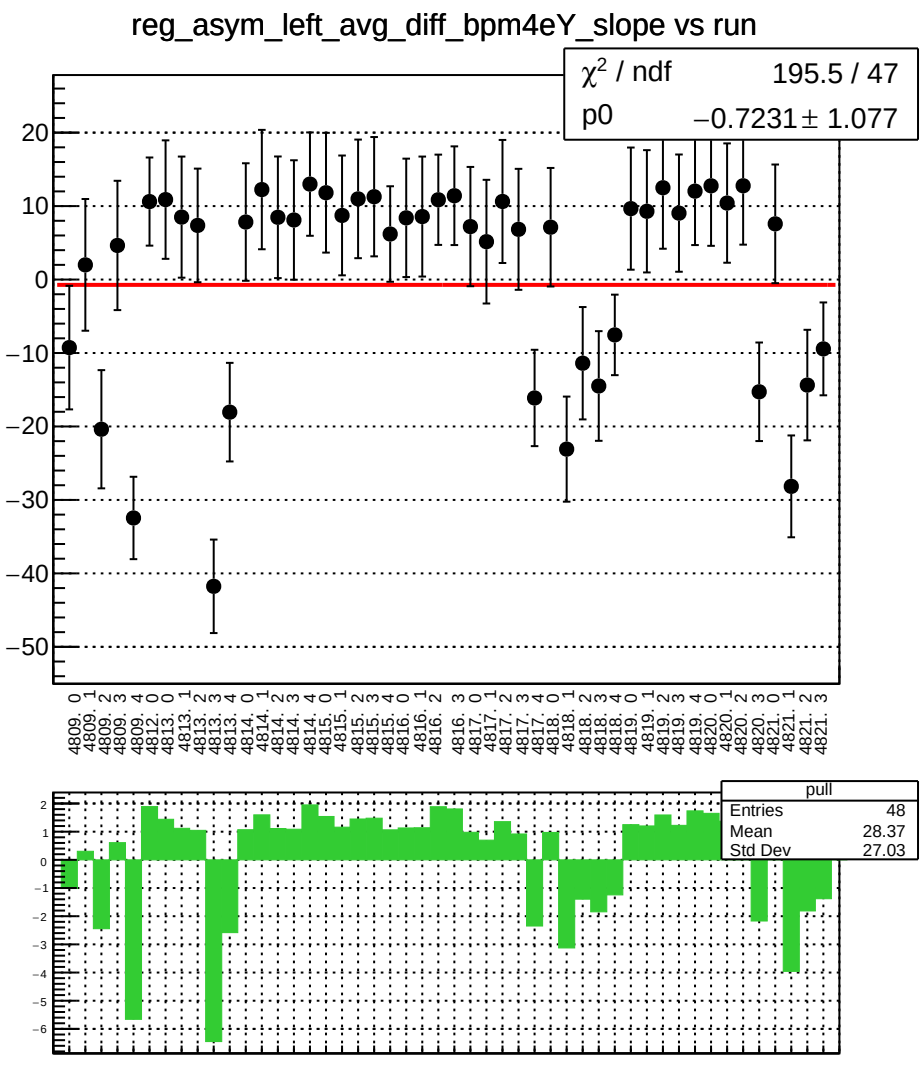

reg_asym_left_avg_diff_bpm4aX_slope vs run
χ² / ndf 27.39 / 47
p0 47.36 ± 0.755
pull
Entries 48
Mean −134.7
Std Dev 151.9

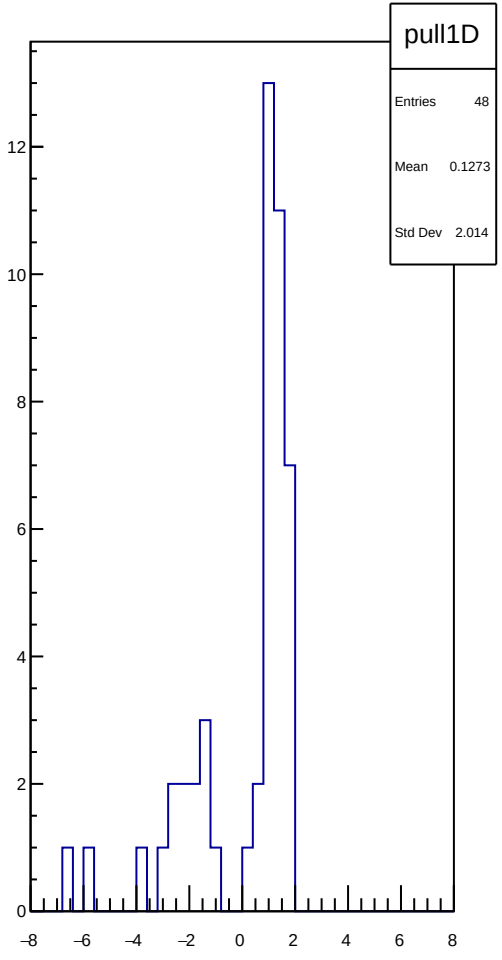

pull1D
Entries 48
Mean −0.03352
Std Dev 0.7547

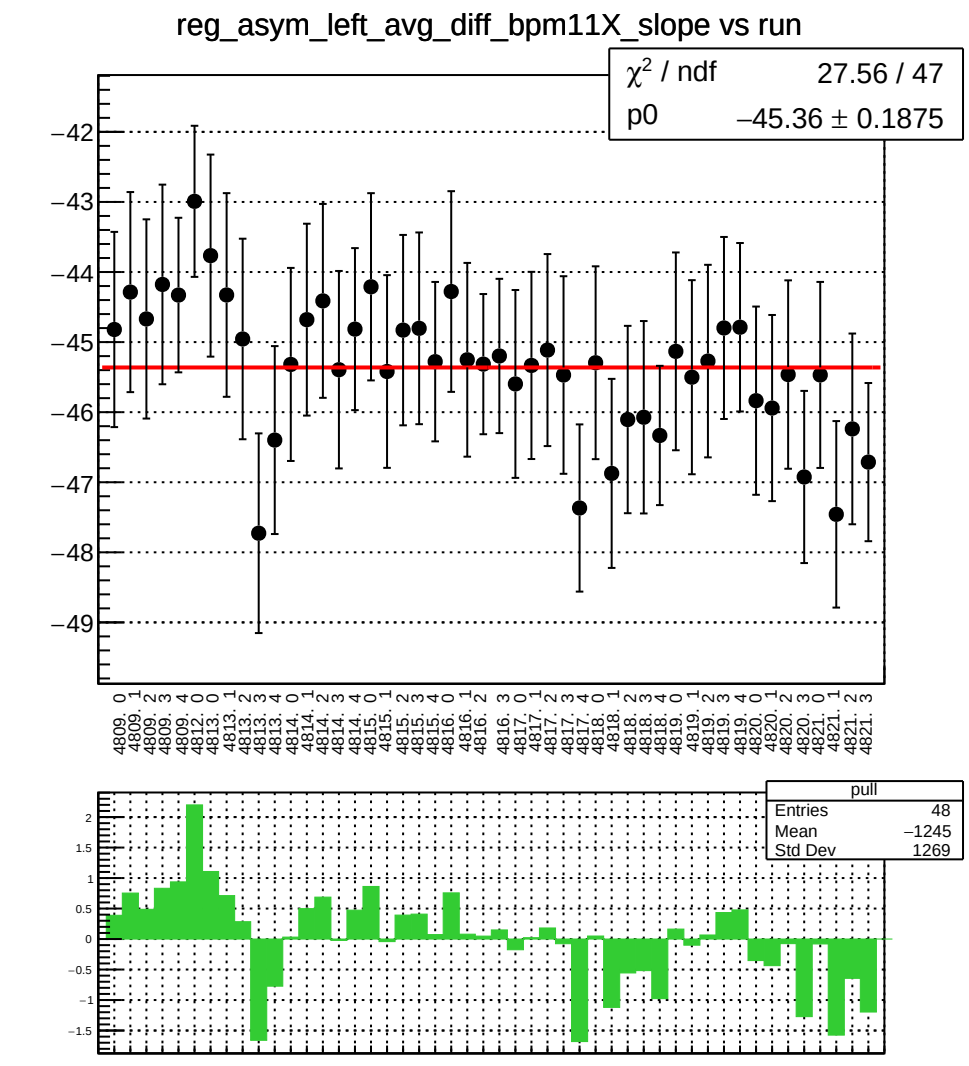

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 170.4 / 47
p0 −2.304 ± 0.9103
pull
Entries 48
Mean 30.06
Std Dev 29.06
pull1D
Entries 48
Mean −0.1152
Std Dev 1.881

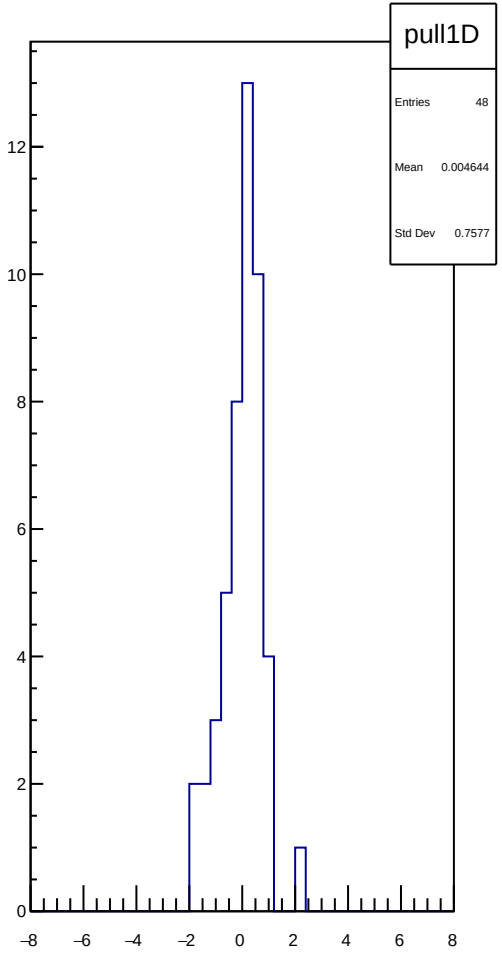

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 36.32 / 47
p0 −72.12 ± 0.1453
pull
Entries 48
Mean 1687
Std Dev 1602

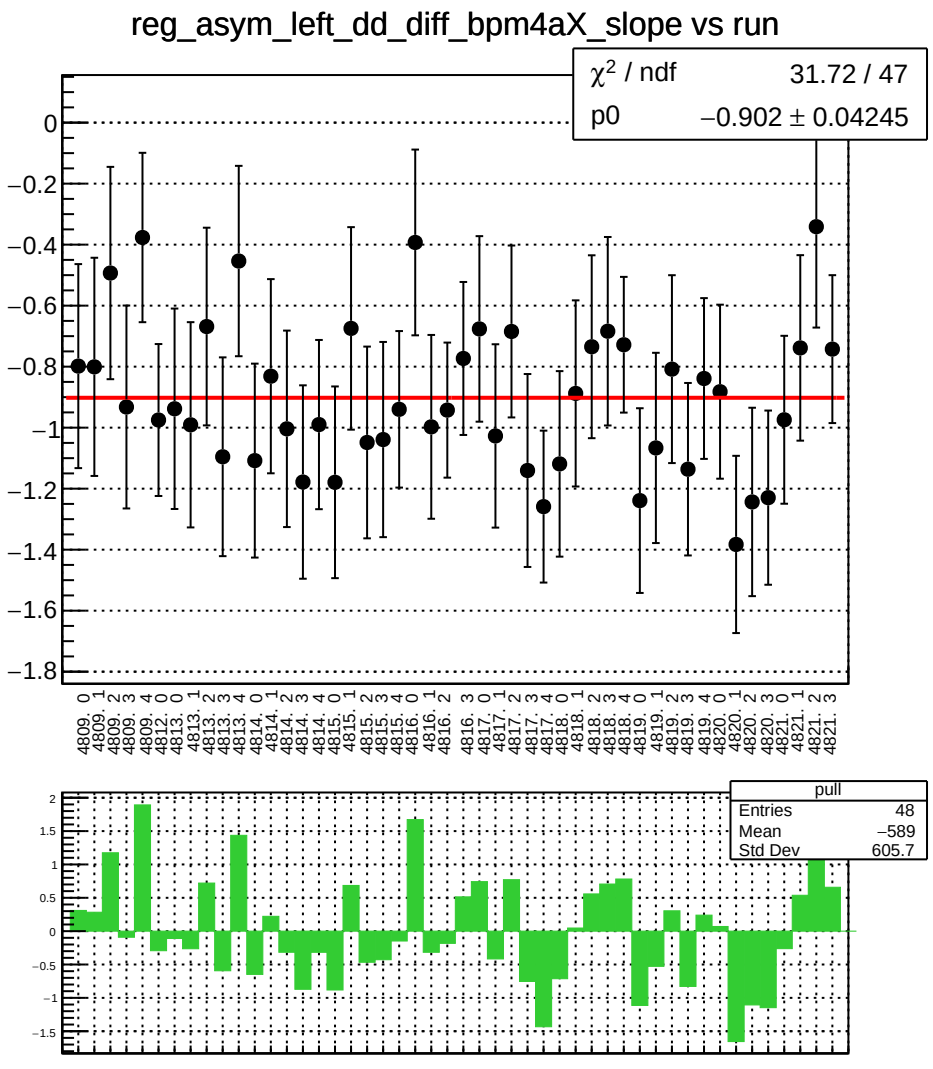

pull1D
Entries 48
Mean 0.0003407
Std Dev 0.8699

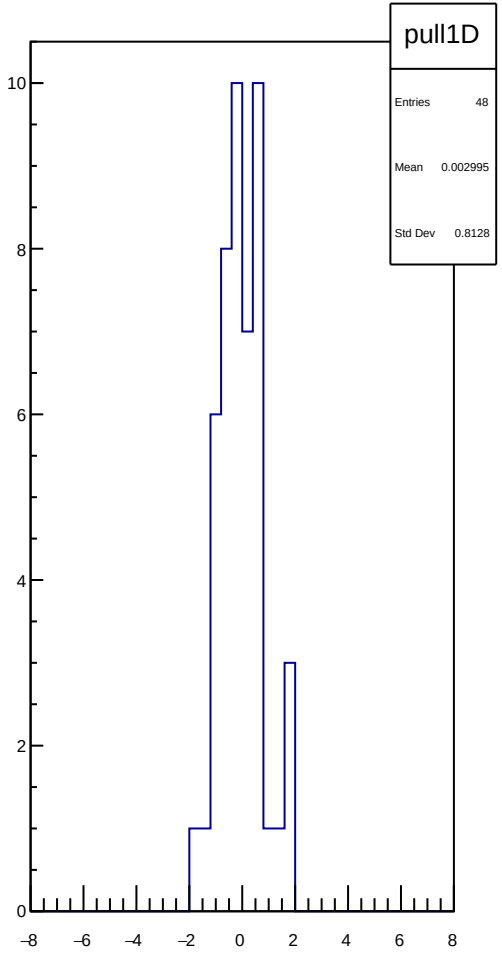

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 195.5 / 47
p0 −0.7231 ± 1.077
pull
Entries 48
Mean 28.37
Std Dev 27.03

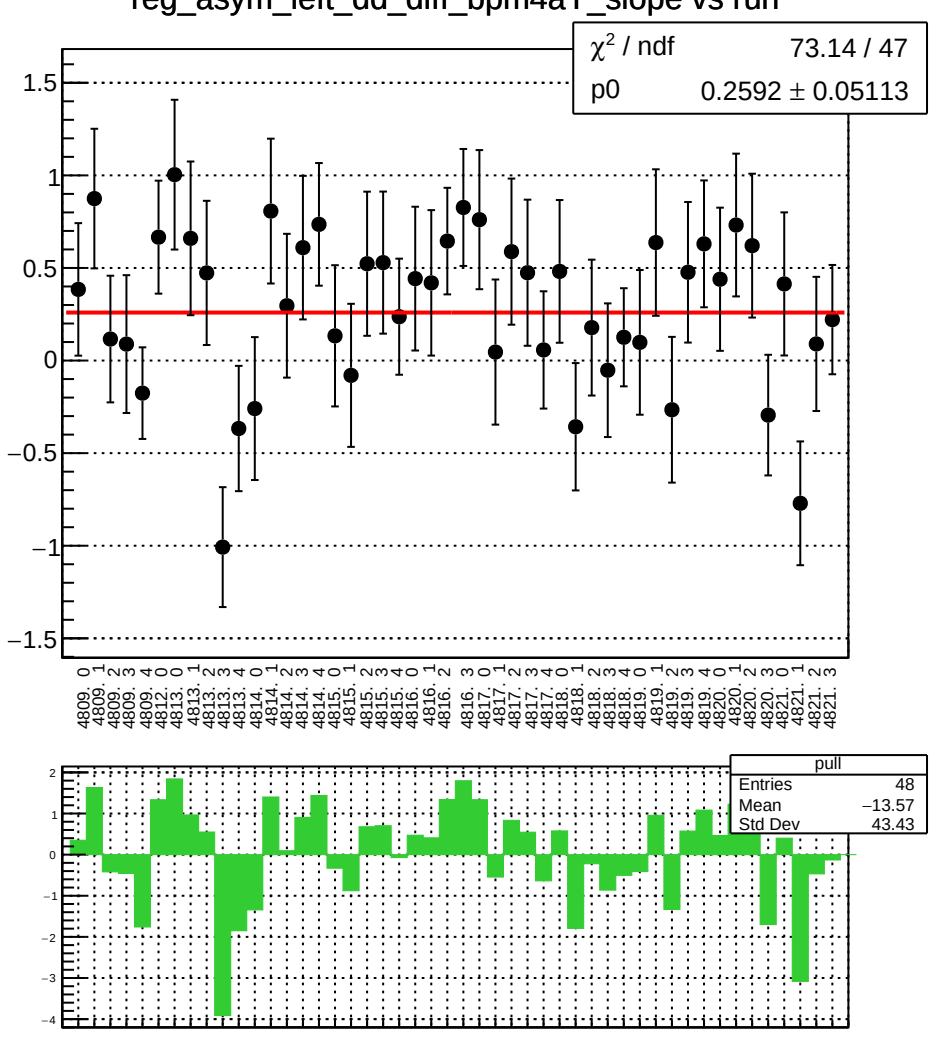

pull1D
Entries 48
Mean 0.1273
Std Dev 2.014

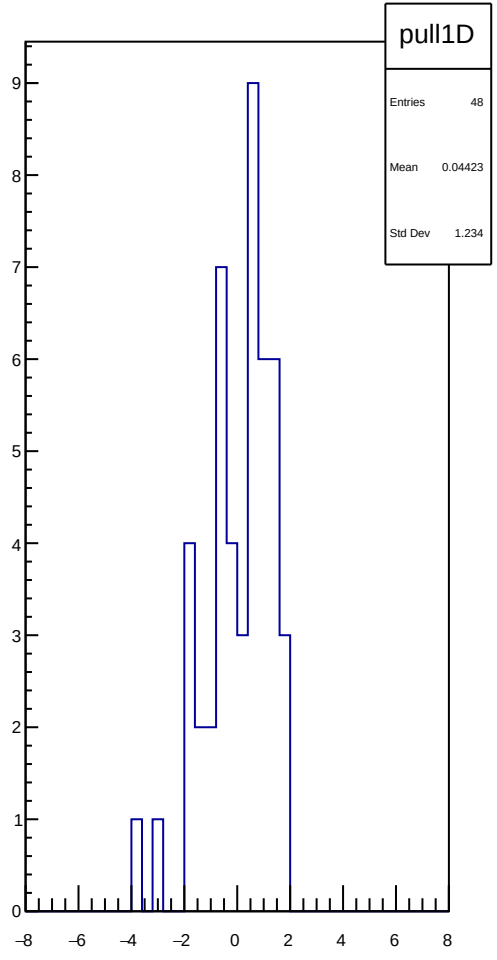

reg_asym_left_avg_diff_bpm11X_slope vs run
χ² / ndf 27.56 / 47
p0 −45.36 ± 0.1875
pull
Entries 48
Mean −1245
Std Dev 1269

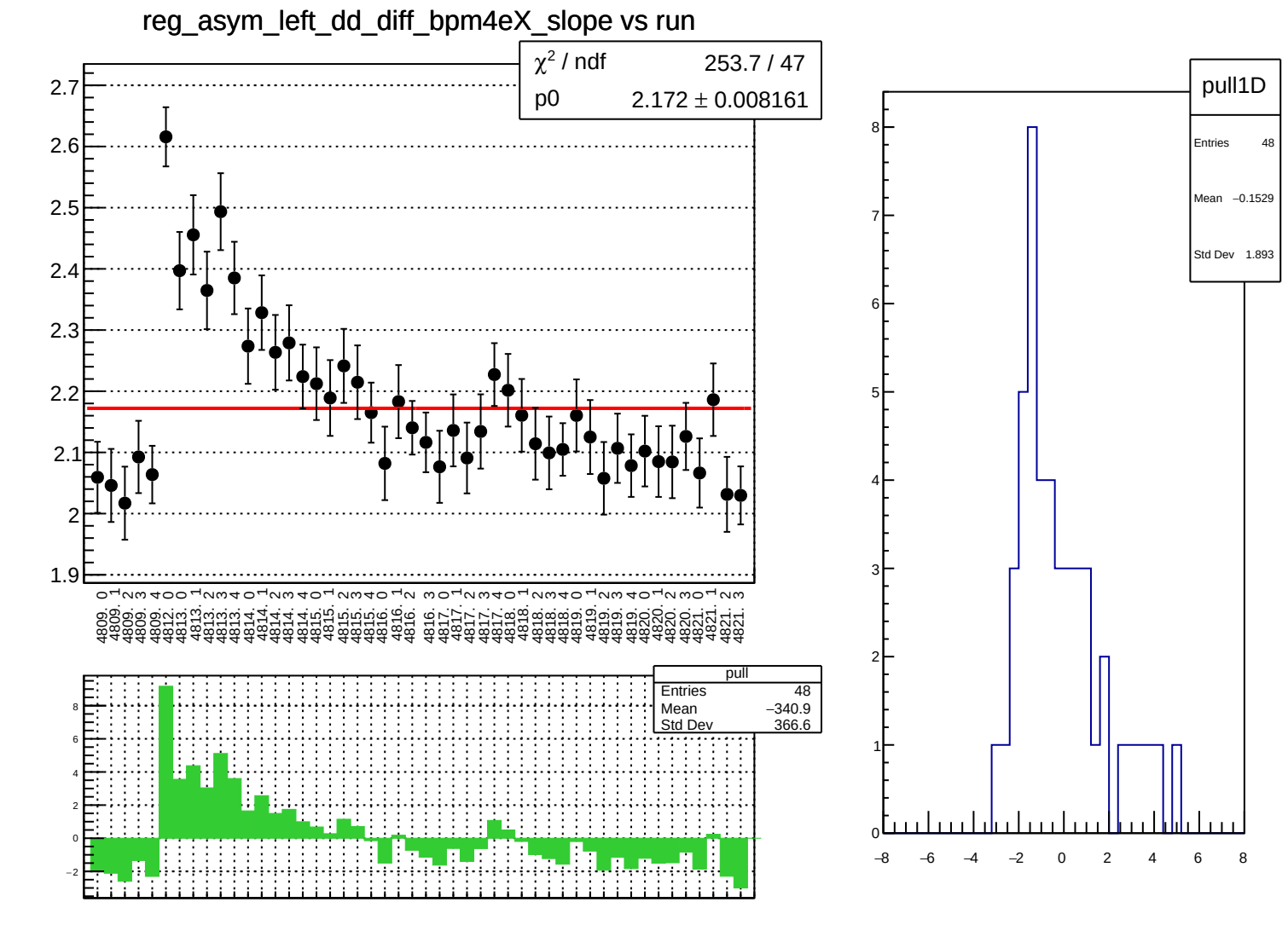

pull1D
Entries 48
Mean 0.004644
Std Dev 0.7577

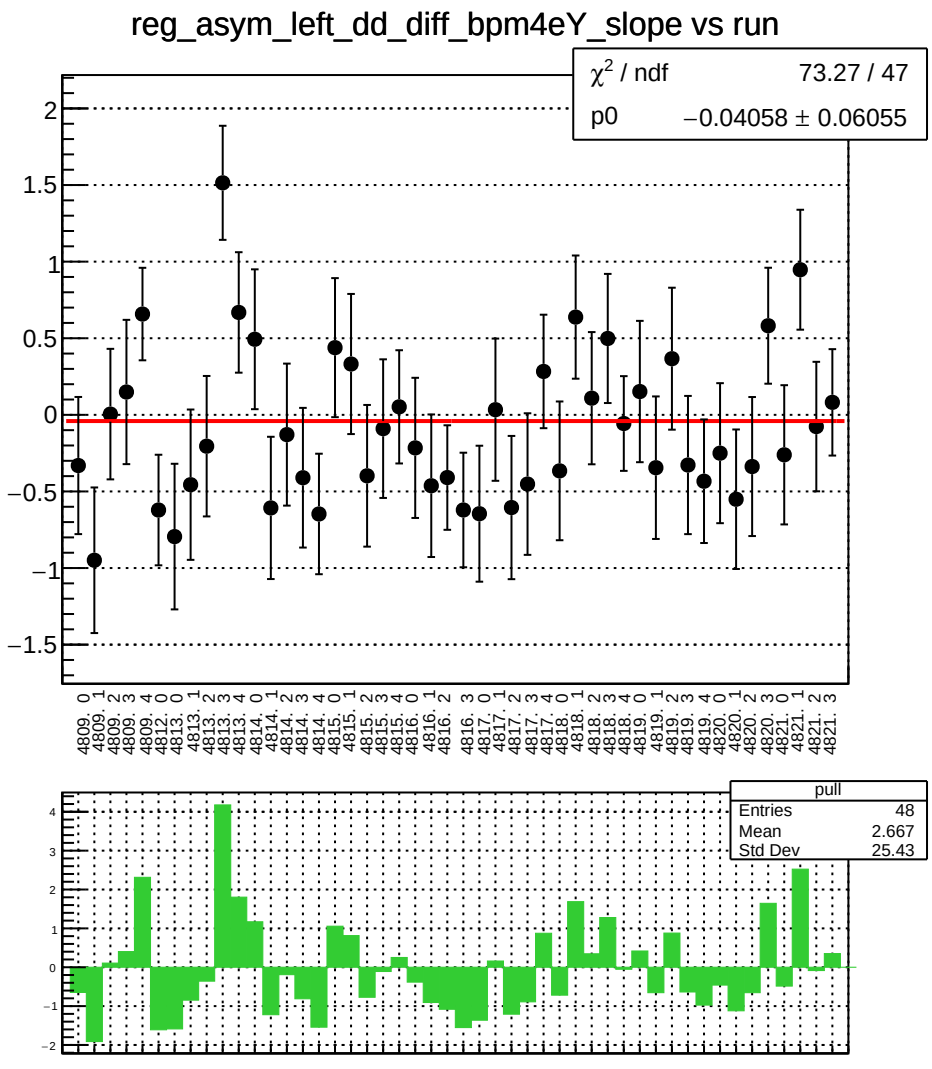

reg_asym_left_dd_diff_bpm4aX_slope vs run
χ² / ndf 31.72 / 47
p0 −0.902 ± 0.04245
pull
Entries 48
Mean −589
Std Dev 605.7

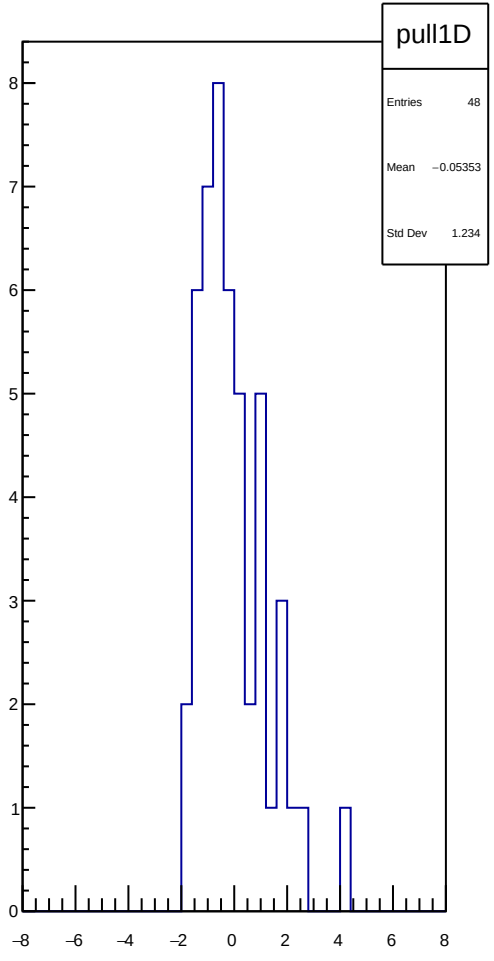

pull1D
Entries 48
Mean 0.002995
Std Dev 0.8128

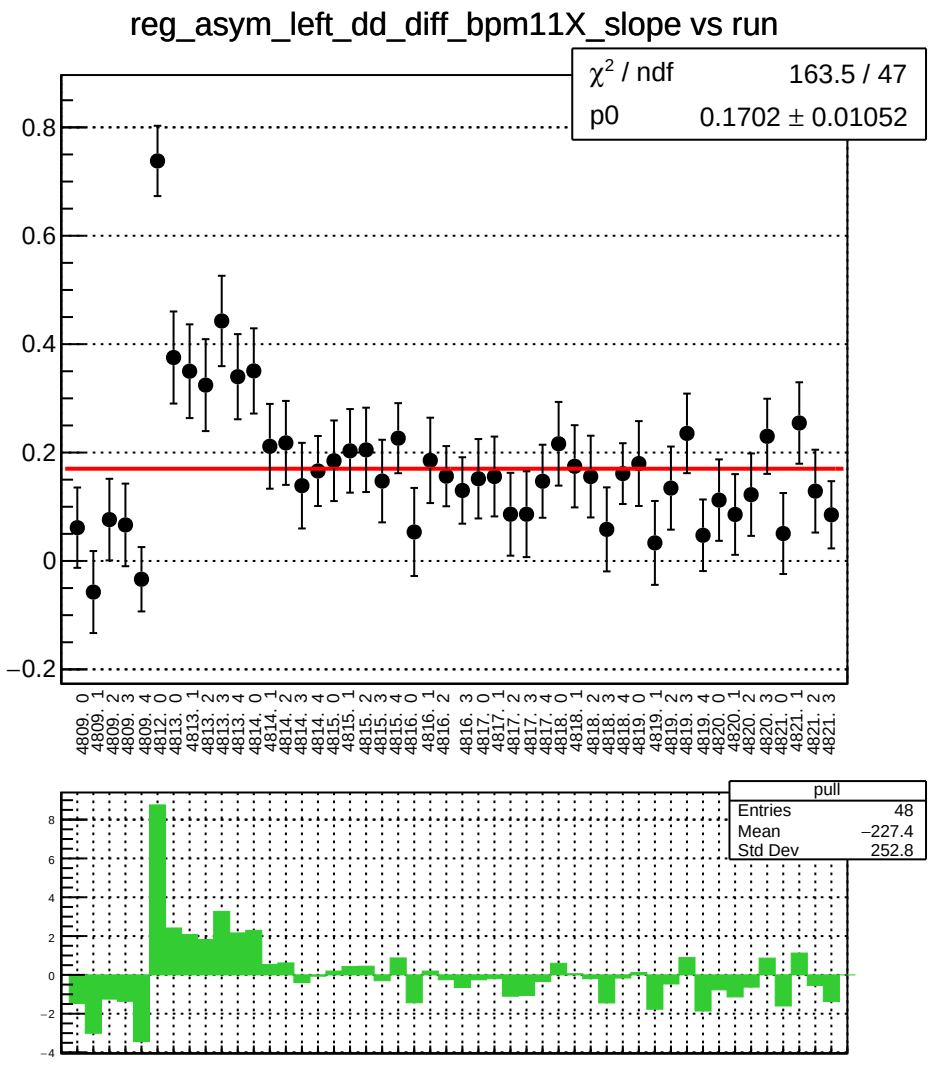

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 73.14 / 47
p0 0.2592 ± 0.05113
pull
Entries 48
Mean −13.57
Std Dev 43.43

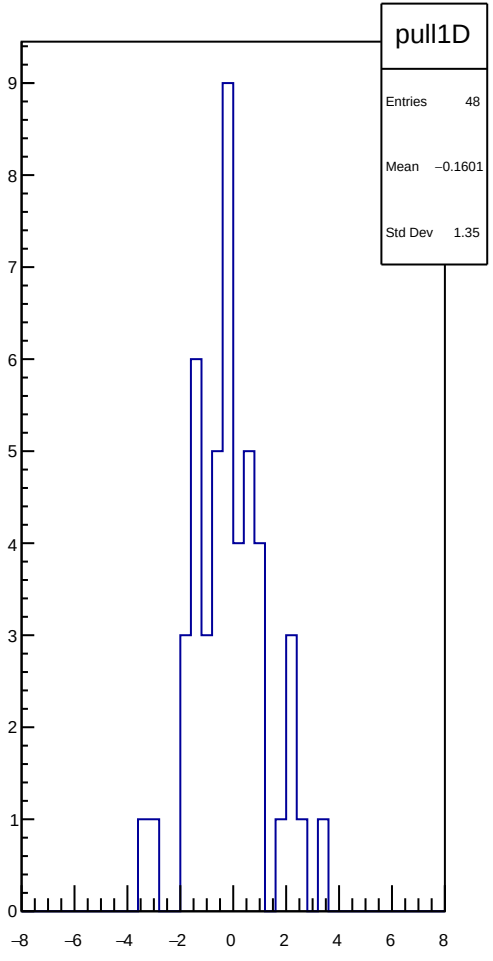

pull1D
Entries 48
Mean 0.04423
Std Dev 1.234

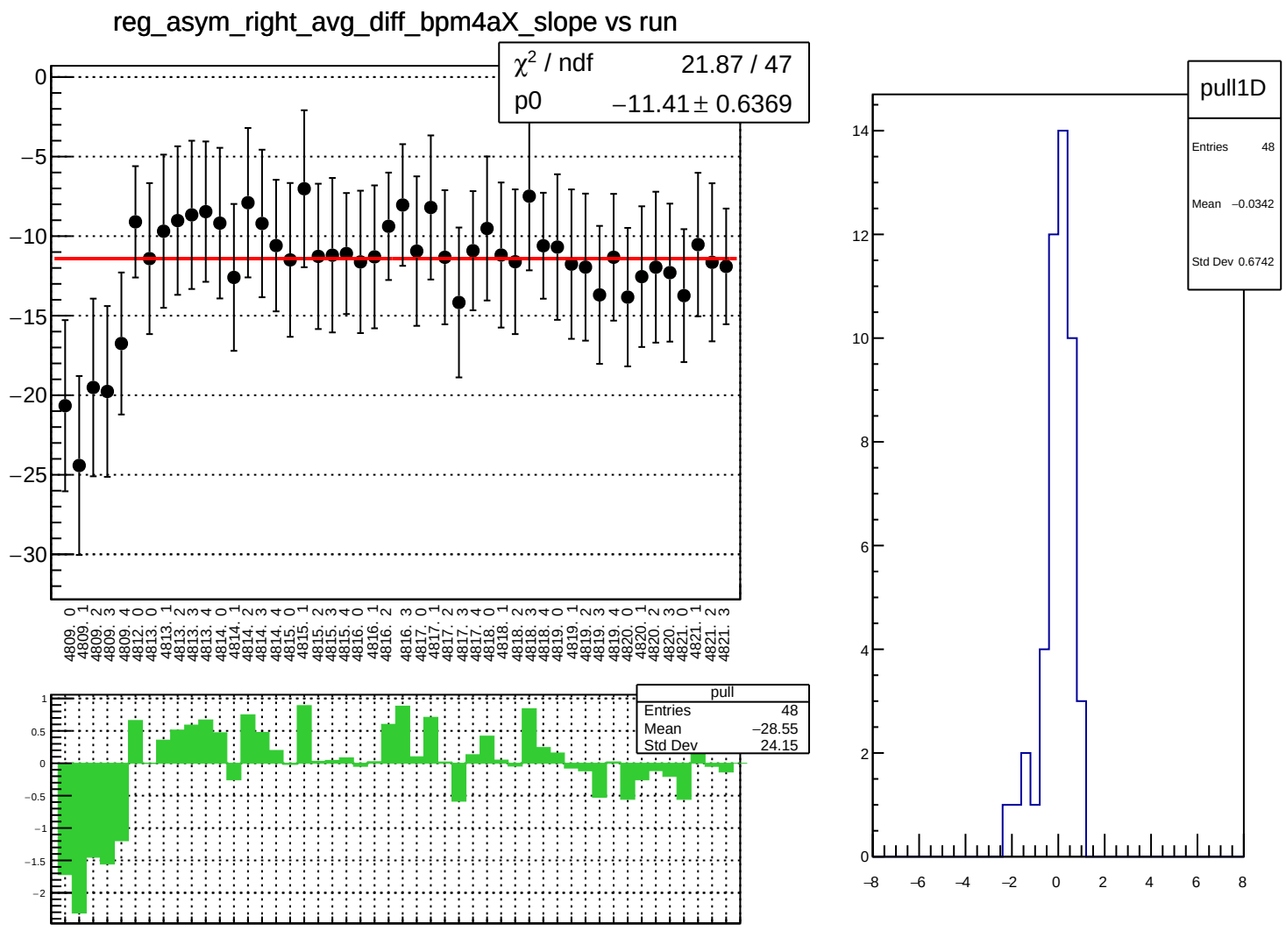

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 253.7 / 47
p0 2.172 ± 0.008161
pull
Entries 48
Mean −340.9
Std Dev 366.6
pull1D
Entries 48
Mean −0.1529
Std Dev 1.893

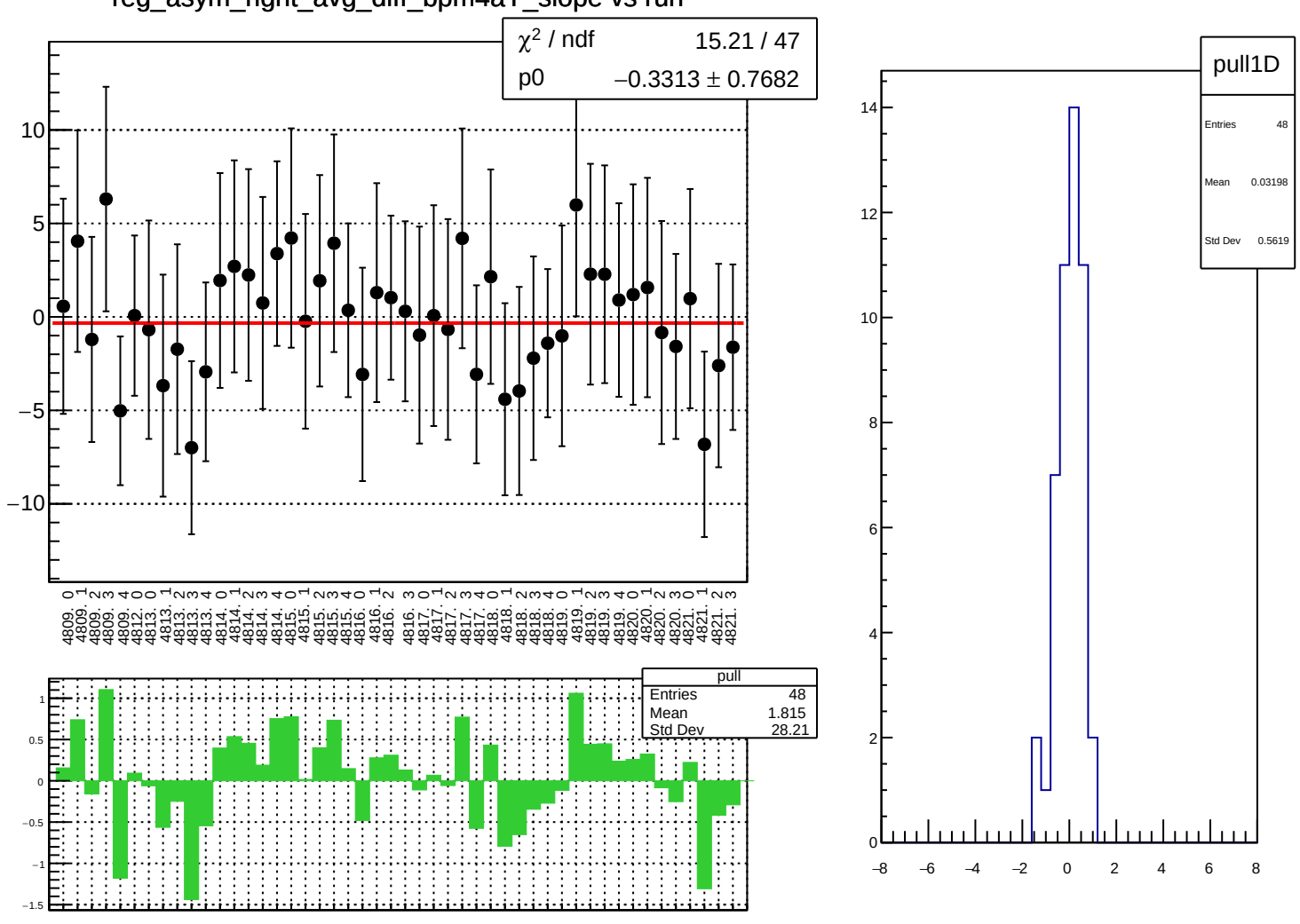

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 73.27 / 47
p0 −0.04058 ± 0.06055
pull
Entries 48
Mean 2.667
Std Dev 25.43

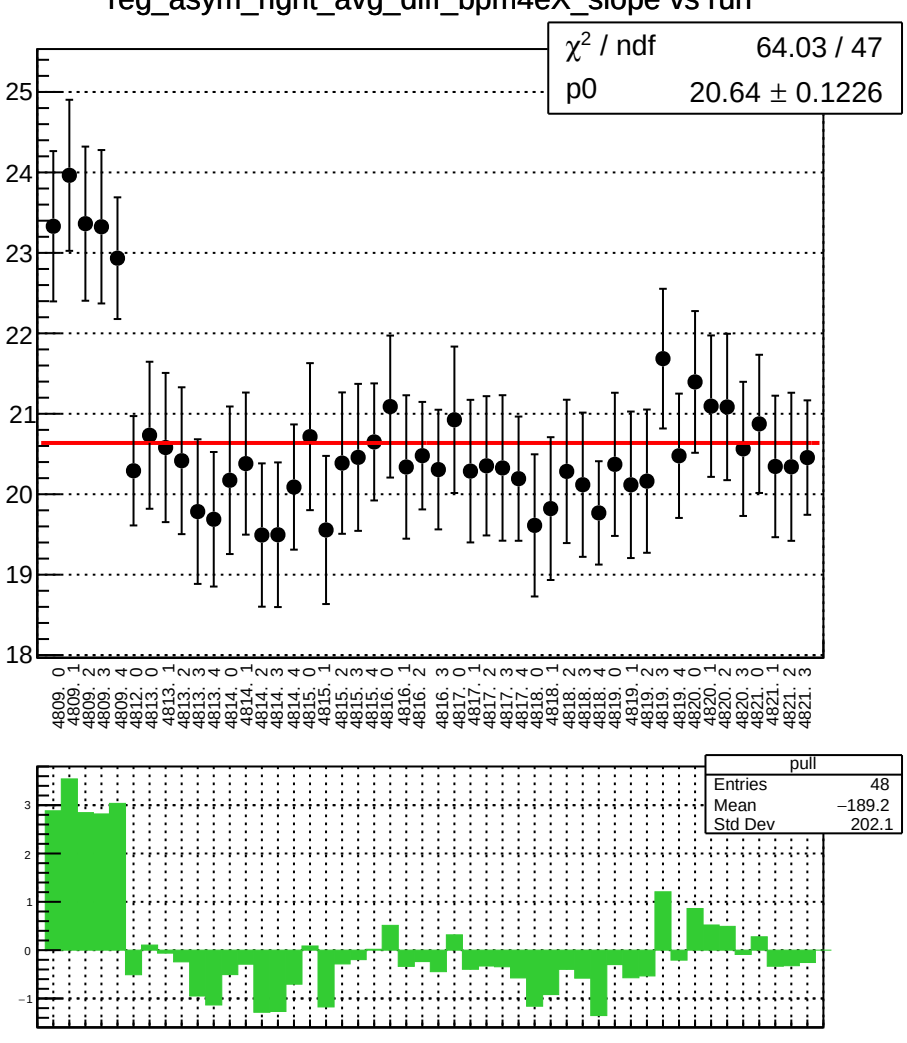

pull1D
Entries 48
Mean −0.05353
Std Dev 1.234

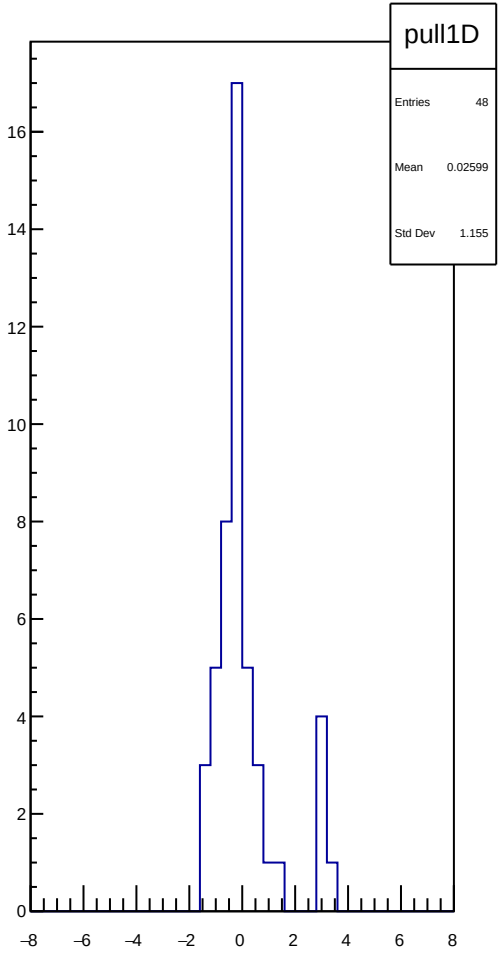

reg_asym_left_dd_diff_bpm11X_slope vs run
χ² / ndf 163.5 / 47
p0 0.1702 ± 0.01052
pull
Entries 48
Mean −227.4
Std Dev 252.8

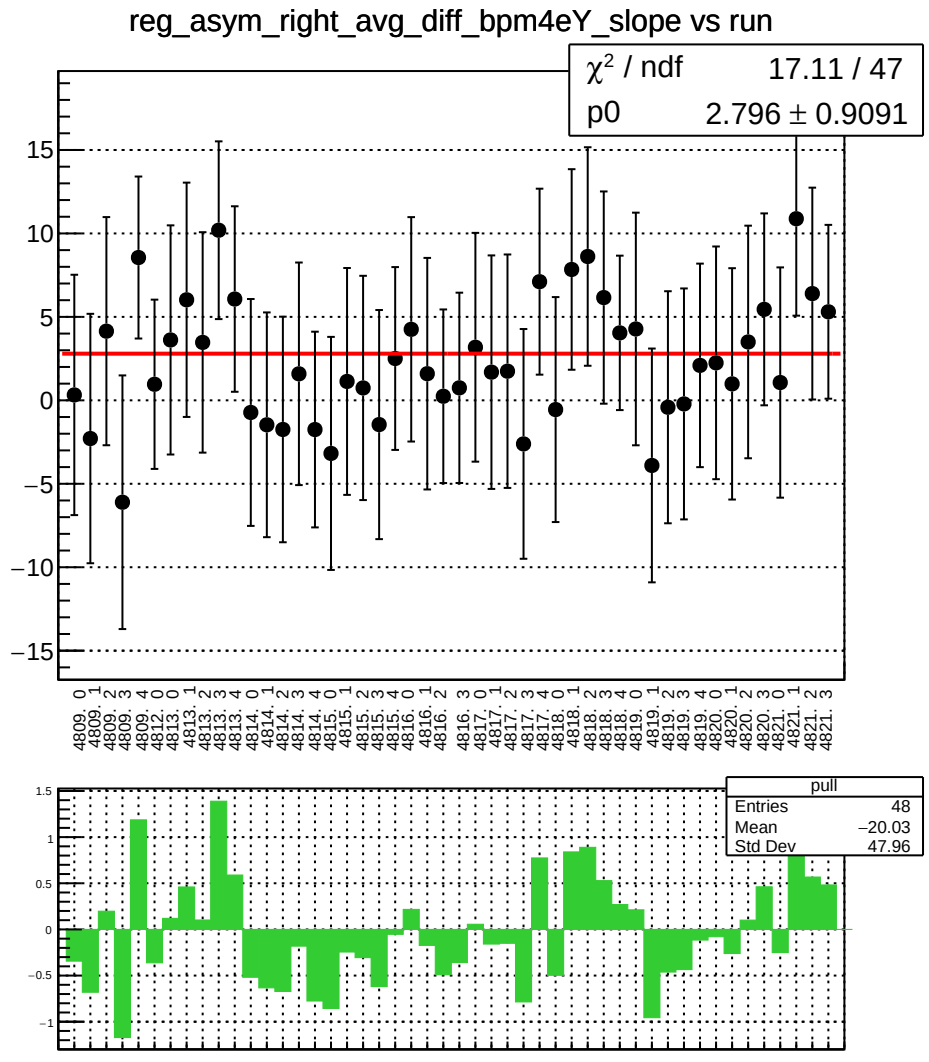

pull1D
Entries 48
Mean −0.1601
Std Dev 1.35

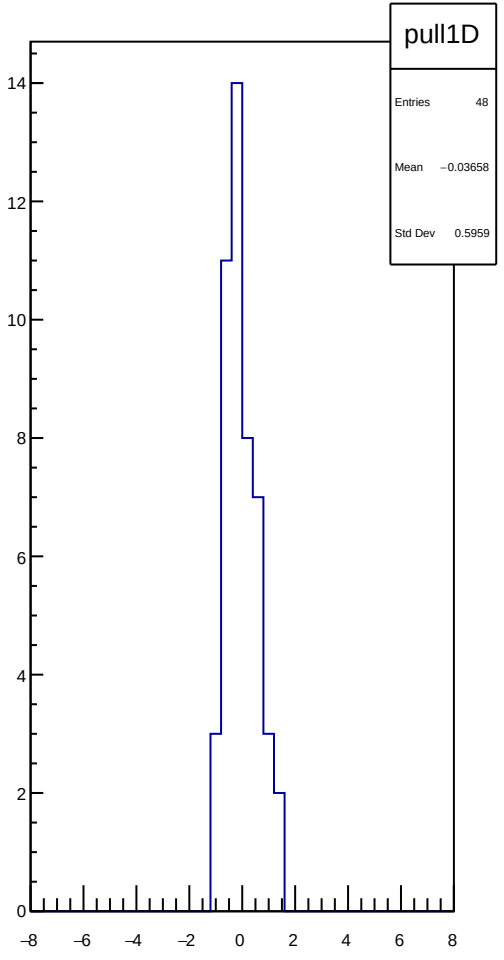

reg_asym_right_avg_diff_bpm4aX_slope vs run
χ² / ndf 21.87 / 47
p0 −11.41 ± 0.6369
pull
Entries 48
Mean −28.55
Std Dev 24.15
pull1D
Entries 48
Mean −0.0342
Std Dev 0.6742

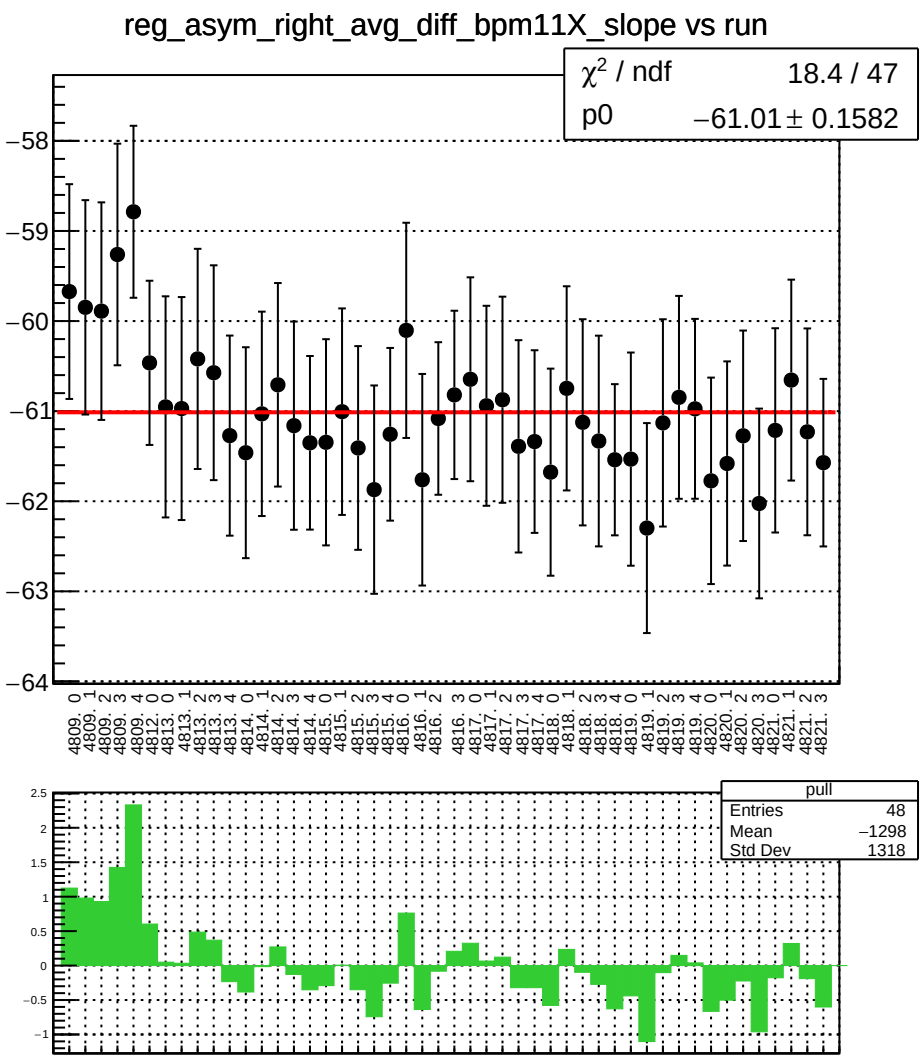

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 15.21 / 47
p0 −0.3313 ± 0.7682
10
5
0
−5
−10
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 1.815
Std Dev 28.21
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 48
Mean 0.03198
Std Dev 0.5619
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

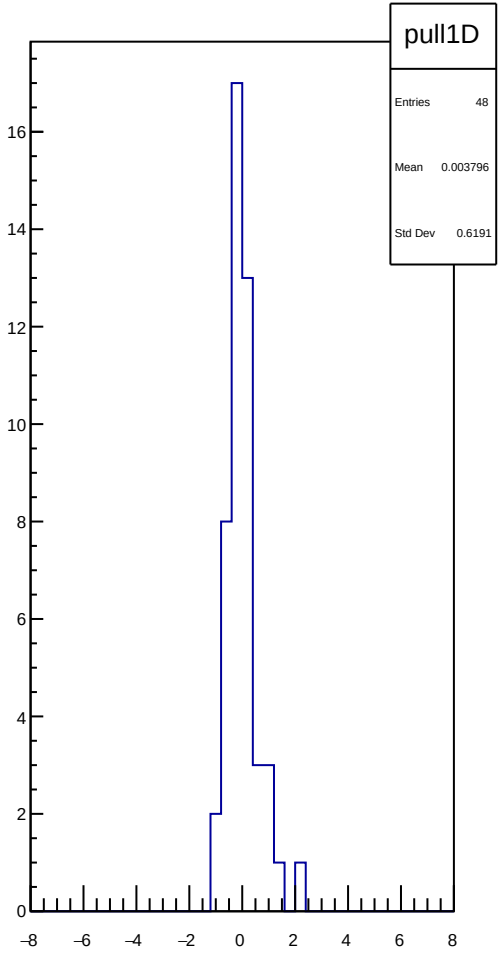

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 64.03 / 47
p0 20.64 ± 0.1226
pull
Entries 48
Mean −189.2
Std Dev 202.1

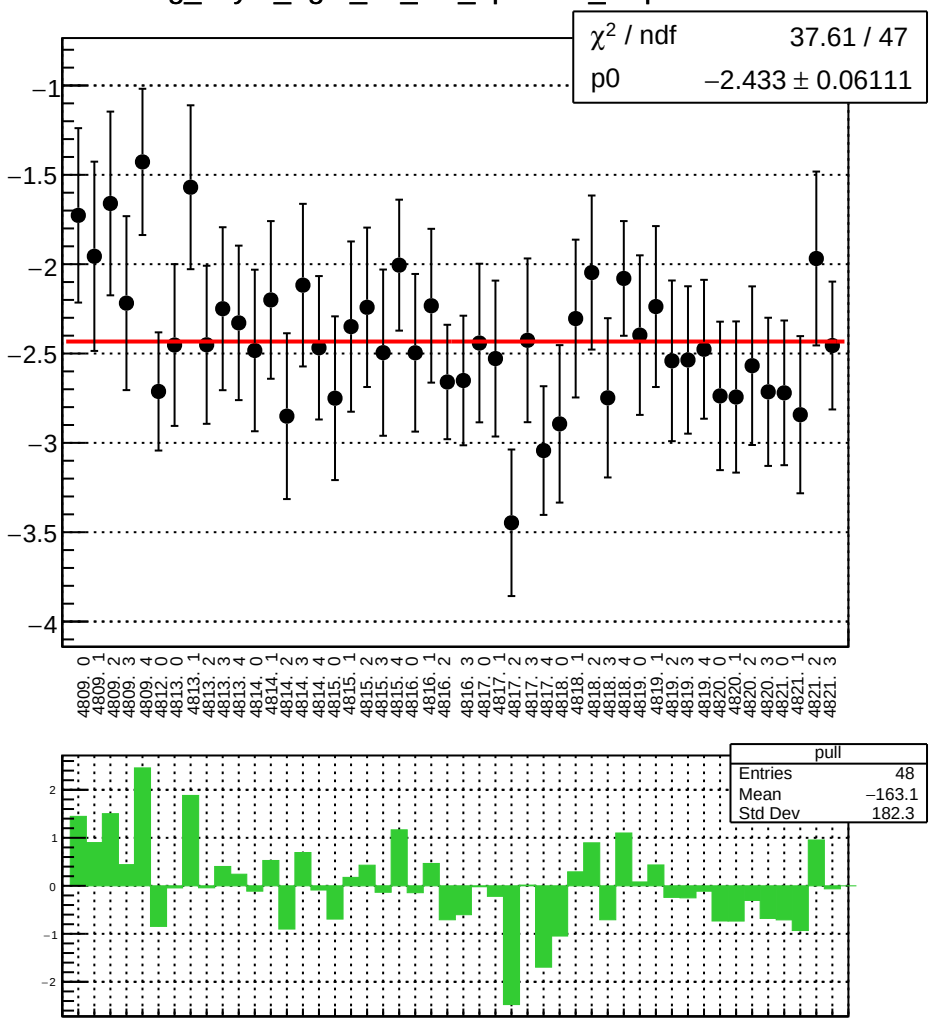

pull1D
Entries 48
Mean 0.02599
Std Dev 1.155

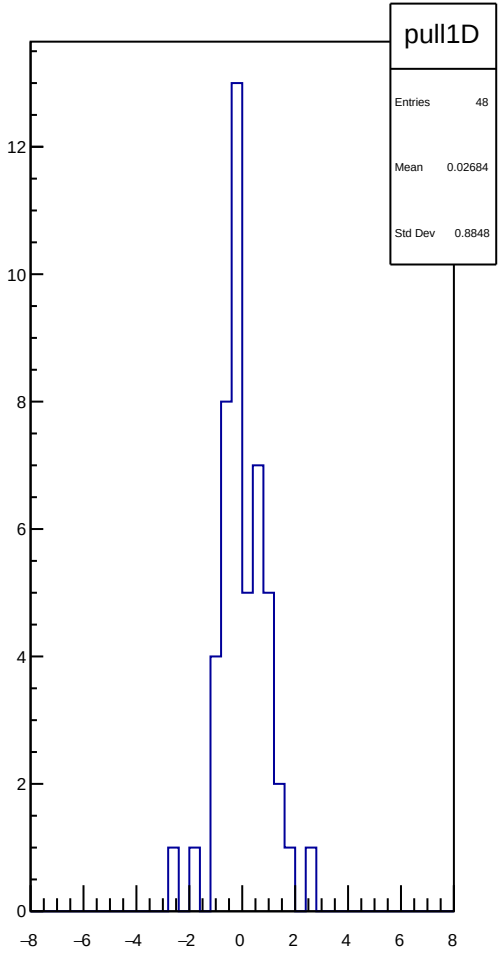

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 17.11 / 47
p0 2.796 ± 0.9091
pull
Entries 48
Mean −20.03
Std Dev 47.96

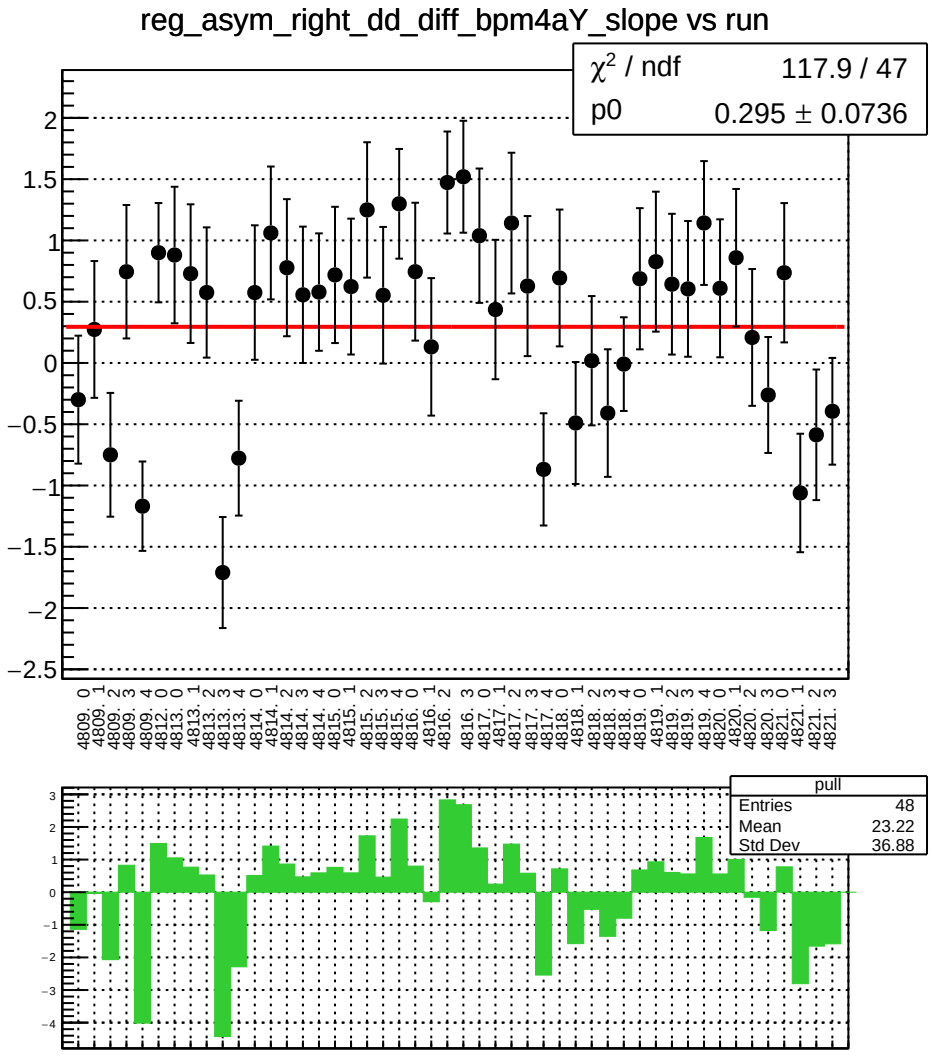

pull1D
Entries 48
Mean −0.03658
Std Dev 0.5959

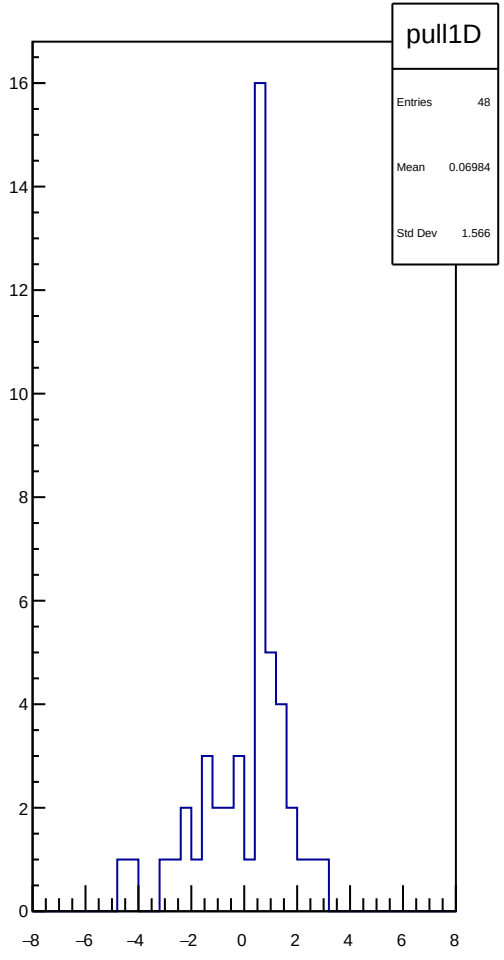

reg_asym_right_avg_diff_bpm11X_slope vs run
χ² / ndf 18.4 / 47
p0 −61.01 ± 0.1582
pull
Entries 48
Mean −1298
Std Dev 1318

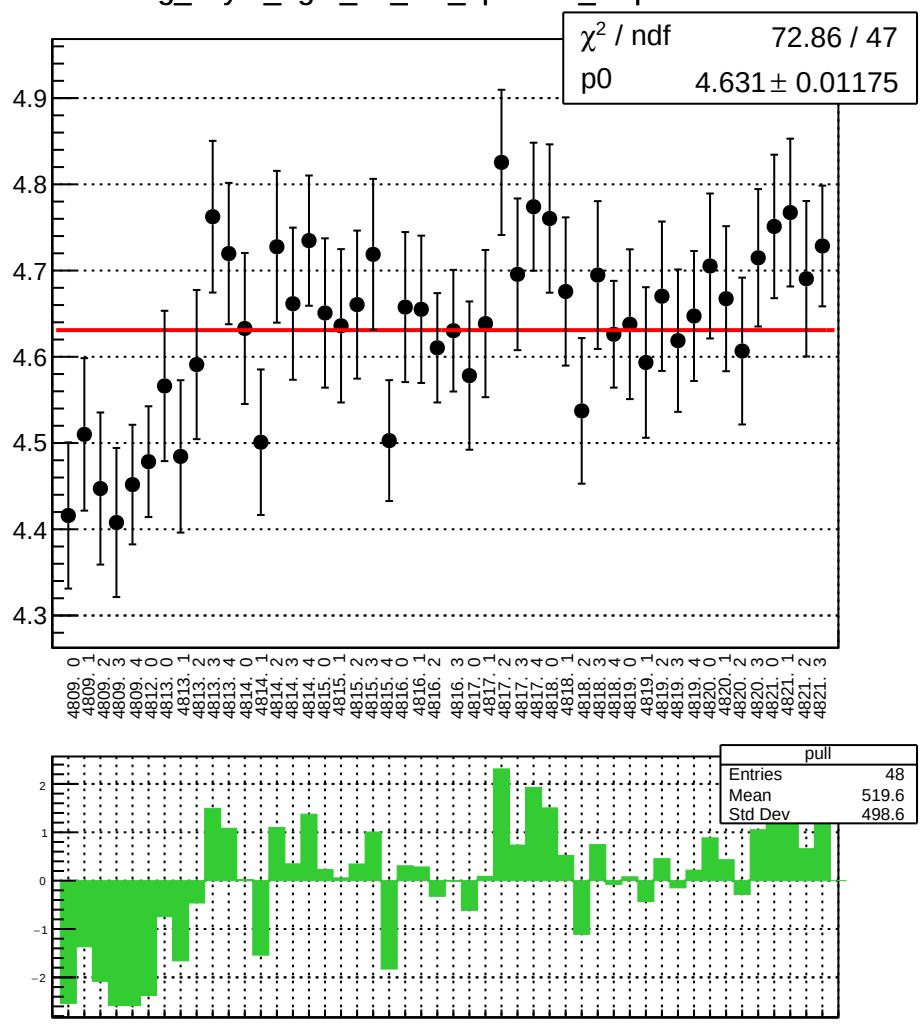

pull1D
Entries 48
Mean 0.003796
Std Dev 0.6191

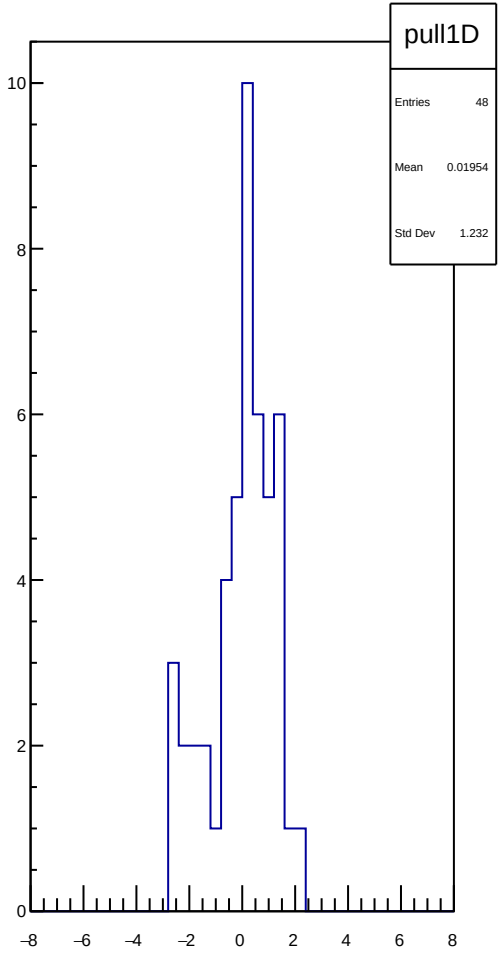

reg_asym_right_dd_diff_bpm4aX_slope vs run
χ² / ndf 37.61 / 47
p0 −2.433 ± 0.06111
pull
Entries 48
Mean −163.1
Std Dev 182.3

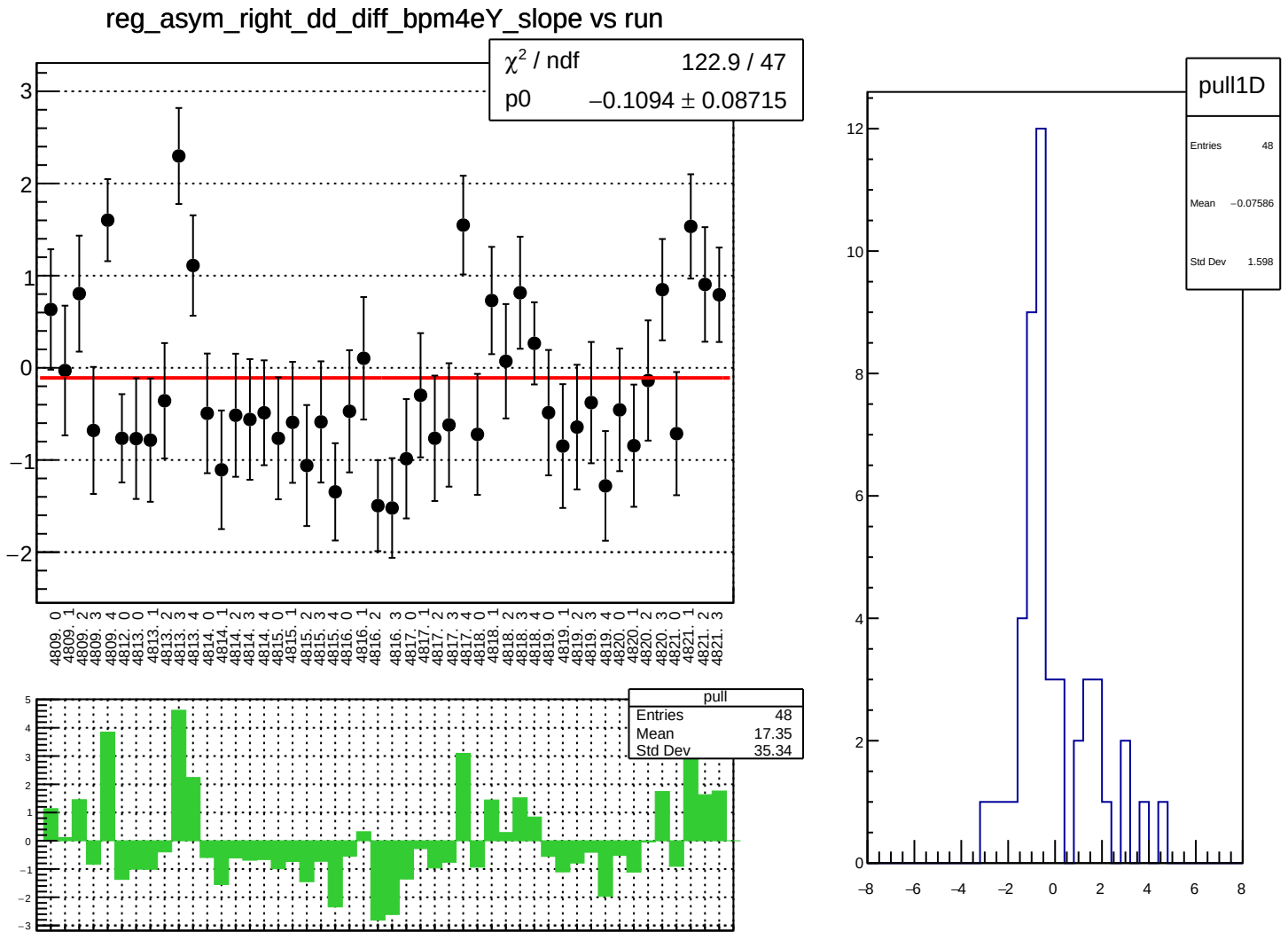

pull1D
Entries 48
Mean 0.02684
Std Dev 0.8848

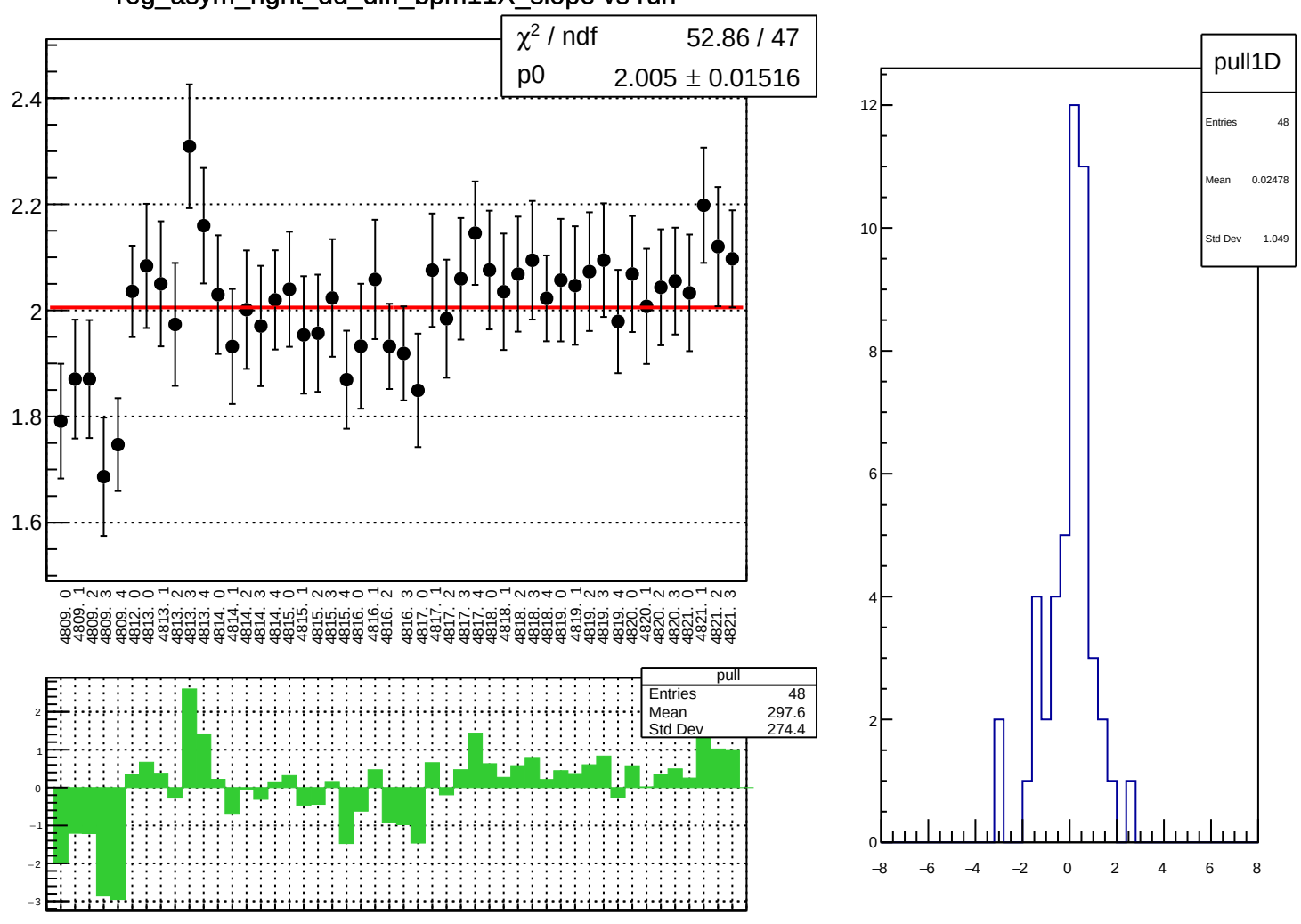

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 117.9 / 47
p0 0.295 ± 0.0736
pull
Entries 48
Mean 23.22
Std Dev 36.88

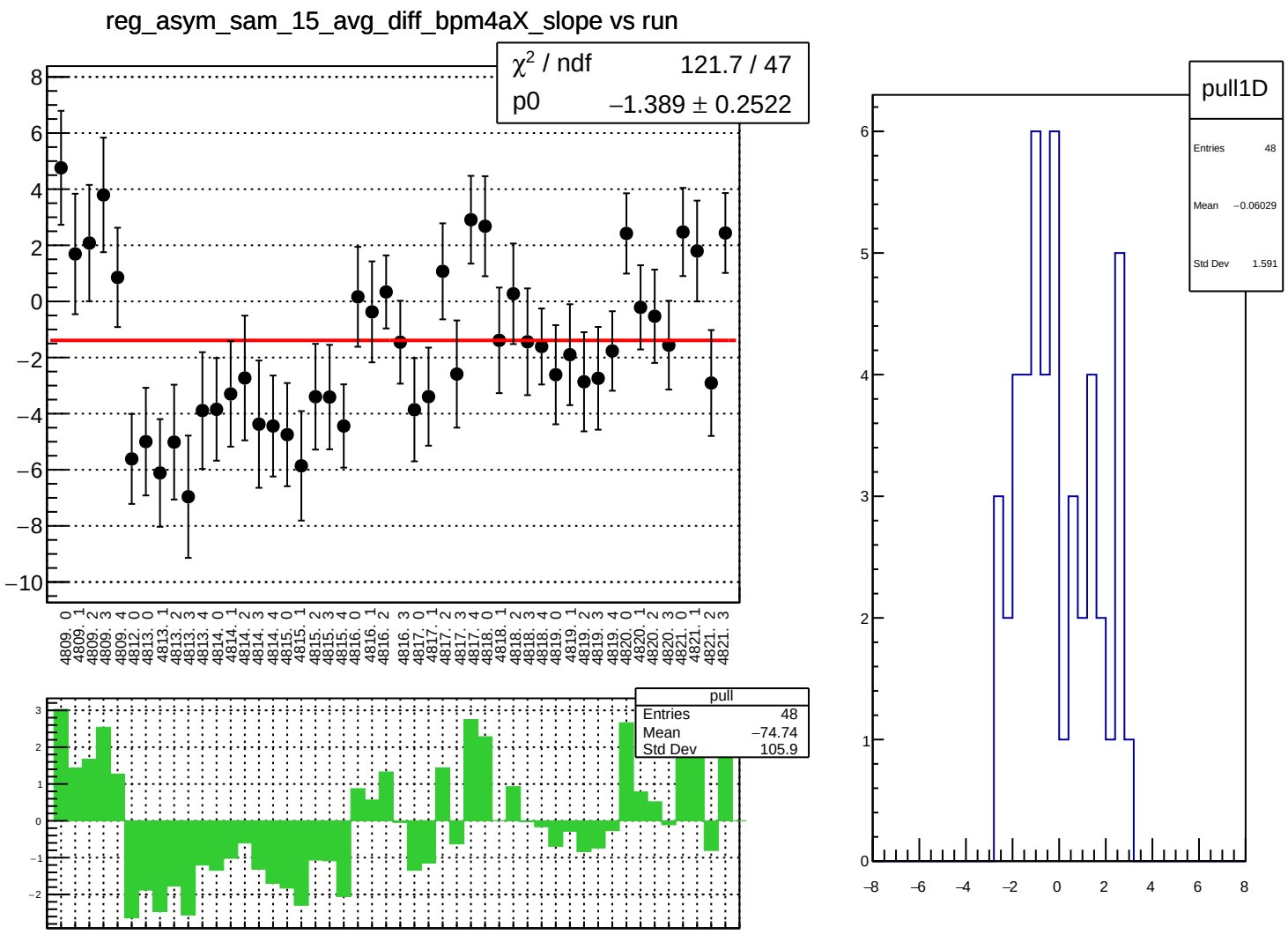

pull1D
Entries 48
Mean 0.06984
Std Dev 1.566

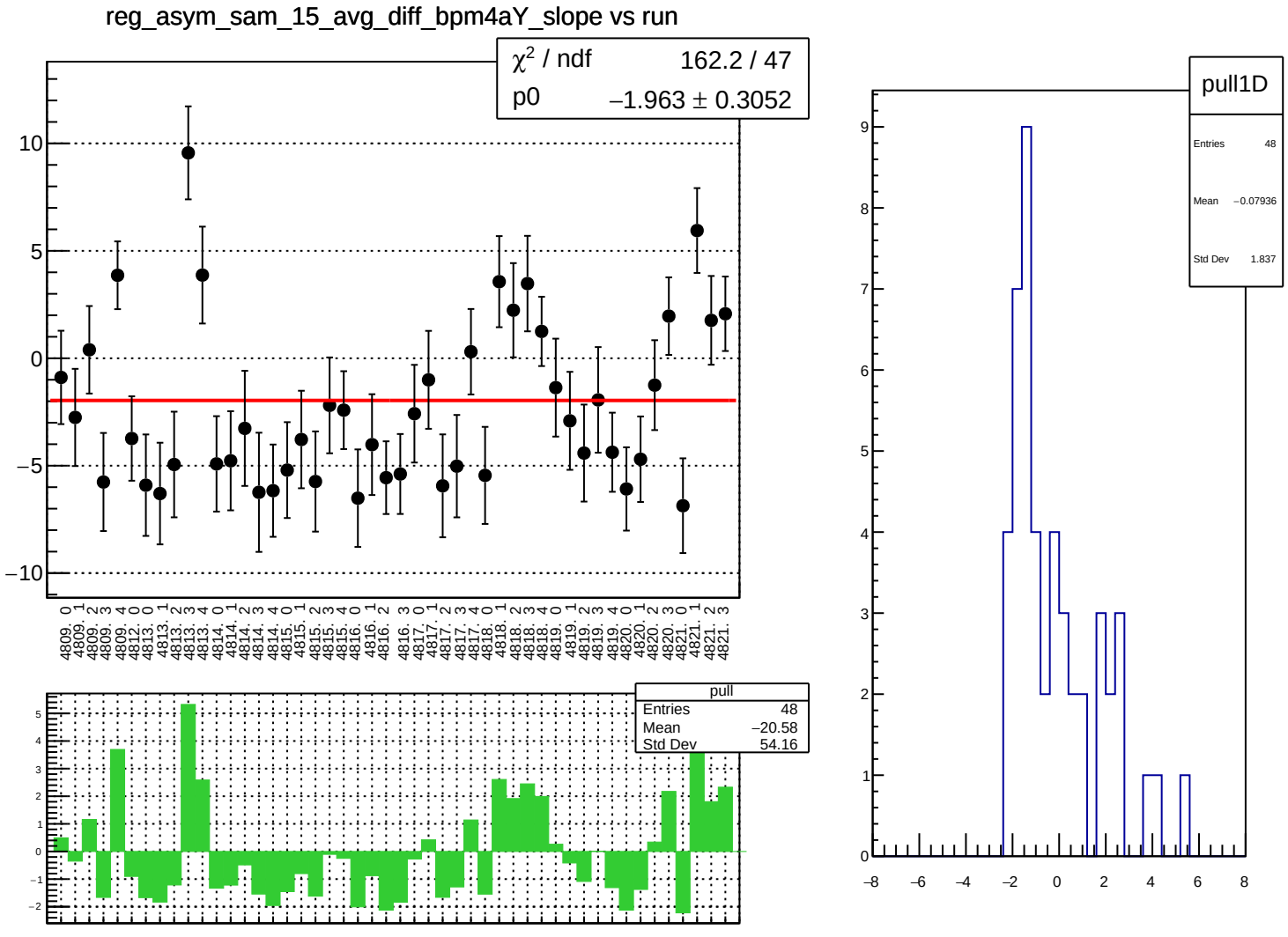

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 72.86 / 47
p0 4.631 ± 0.01175
4.9
4.8
4.7
4.6
4.5
4.4
4.3
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 519.6
Std Dev 498.6
2
1
0
−1
−2

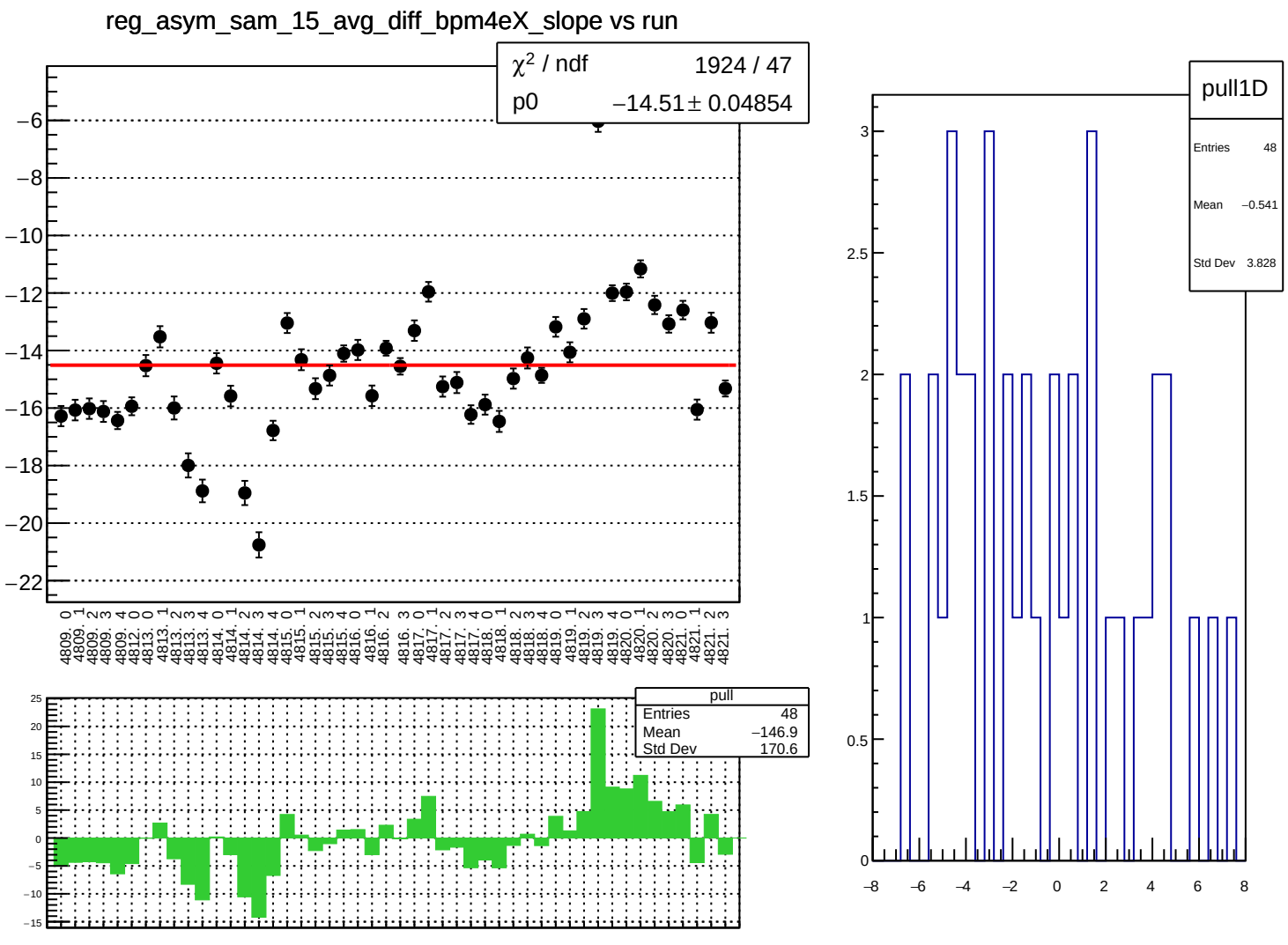

pull1D
Entries 48
Mean 0.01954
Std Dev 1.232
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

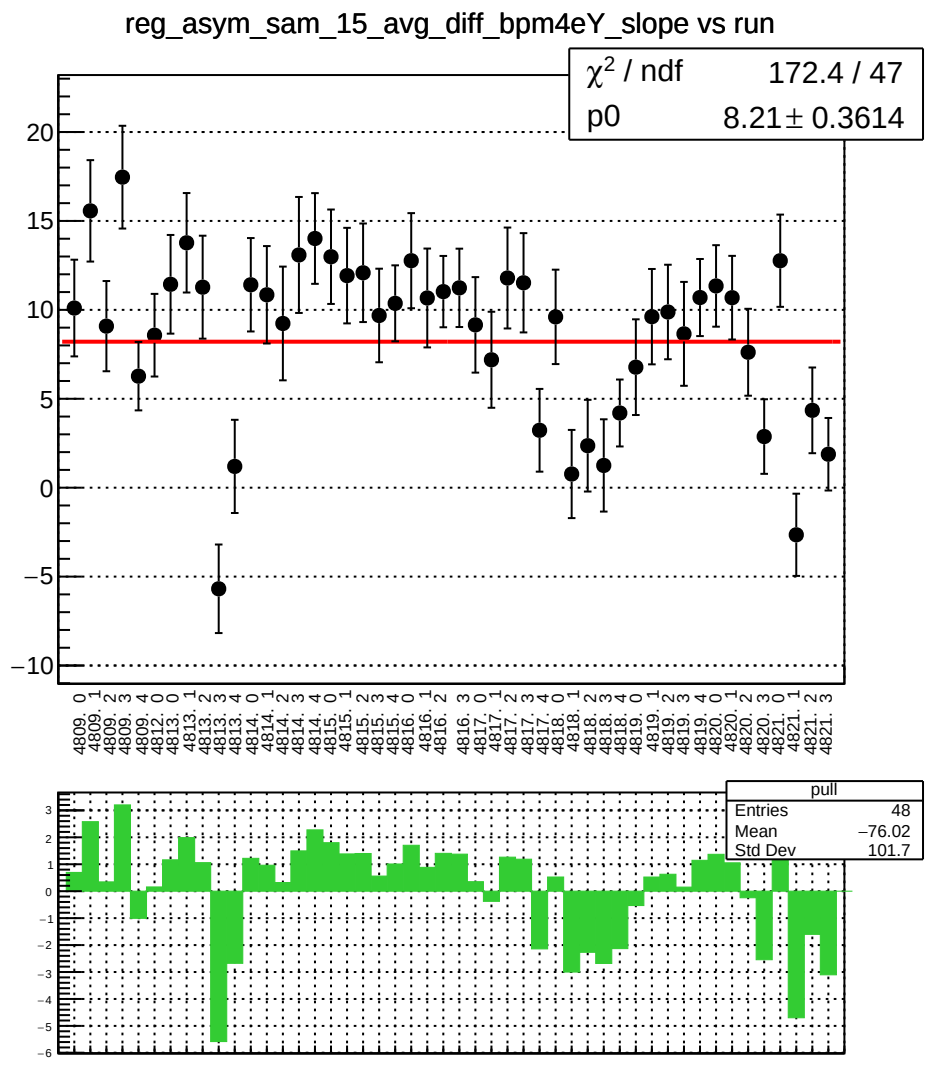

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 122.9 / 47
p0 −0.1094 ± 0.08715
pull
Entries 48
Mean 17.35
Std Dev 35.34
pull1D
Entries 48
Mean −0.07586
Std Dev 1.598

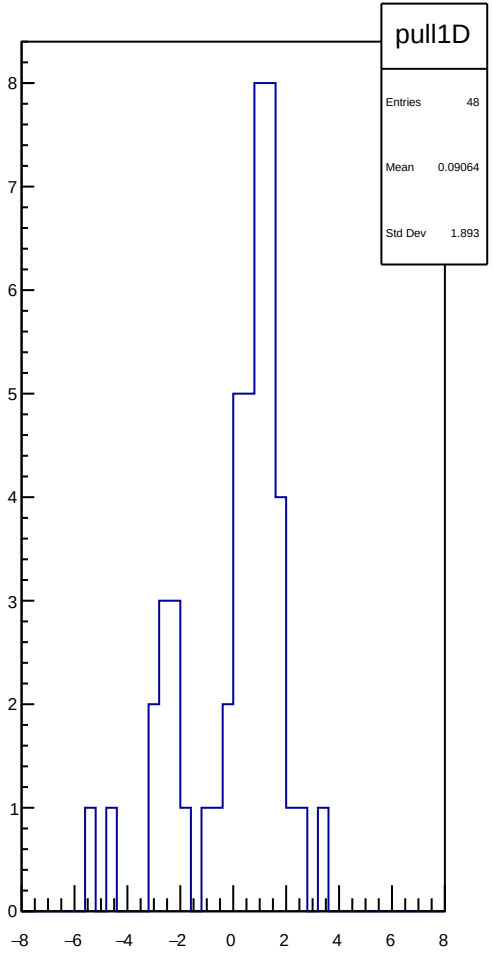

reg_asym_right_dd_diff_bpm11X_slope vs run
χ² / ndf 52.86 / 47
p0 2.005 ± 0.01516
2.4
2.2
2
1.8
1.6
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 297.6
Std Dev 274.4
2
1
0
−1
−2
−3
pull1D
Entries 48
Mean 0.02478
Std Dev 1.049
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

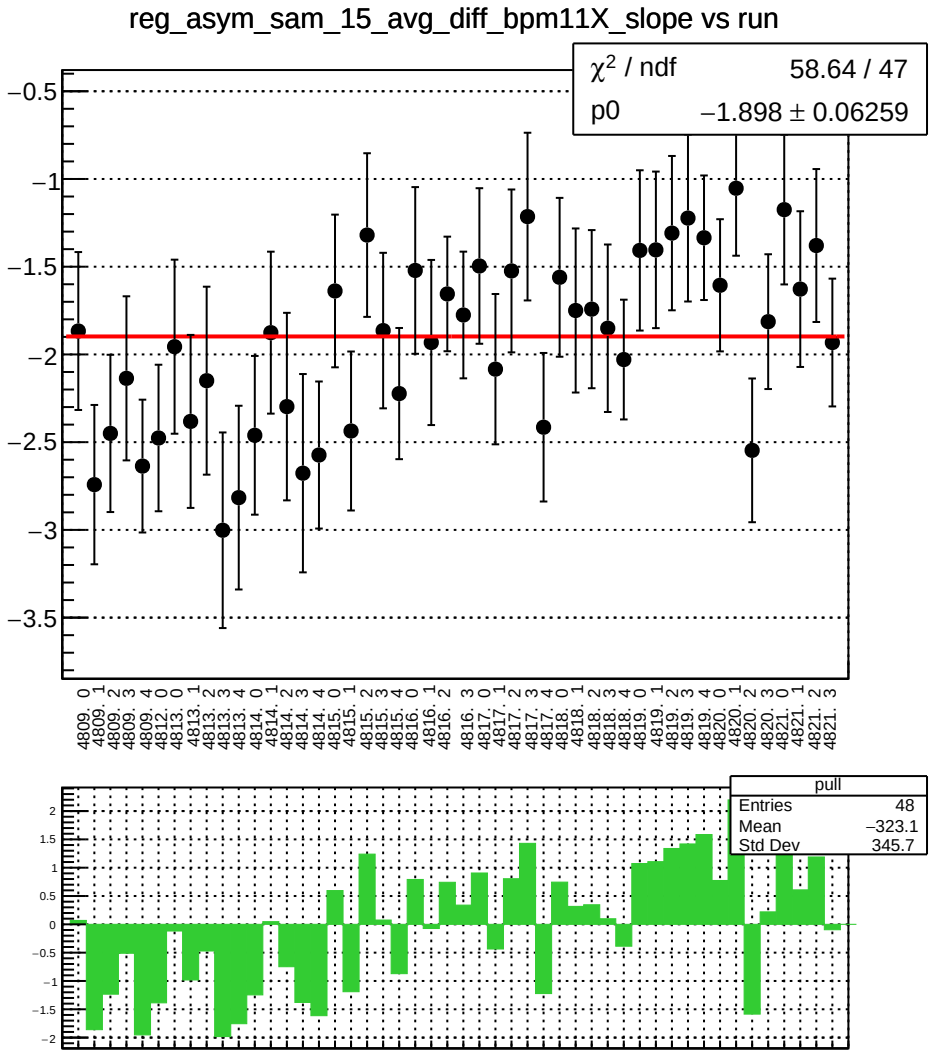

reg_asym_sam_15_avg_diff_bpm4aX_slope vs run
χ² / ndf 121.7 / 47
p0 −1.389 ± 0.2522
pull
Entries 48
Mean −74.74
Std Dev 105.9
pull1D
Entries 48
Mean −0.06029
Std Dev 1.591

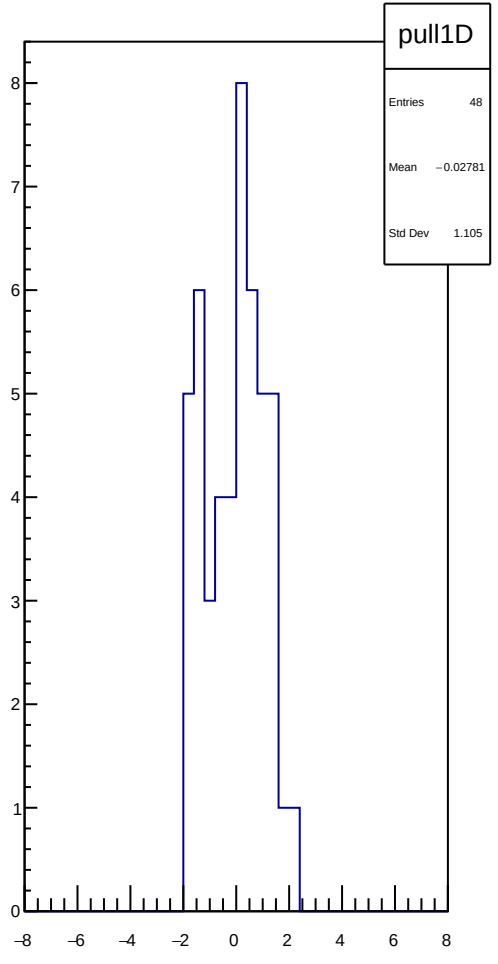

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 162.2 / 47
p0 −1.963 ± 0.3052
pull
Entries 48
Mean −20.58
Std Dev 54.16
pull1D
Entries 48
Mean −0.07936
Std Dev 1.837

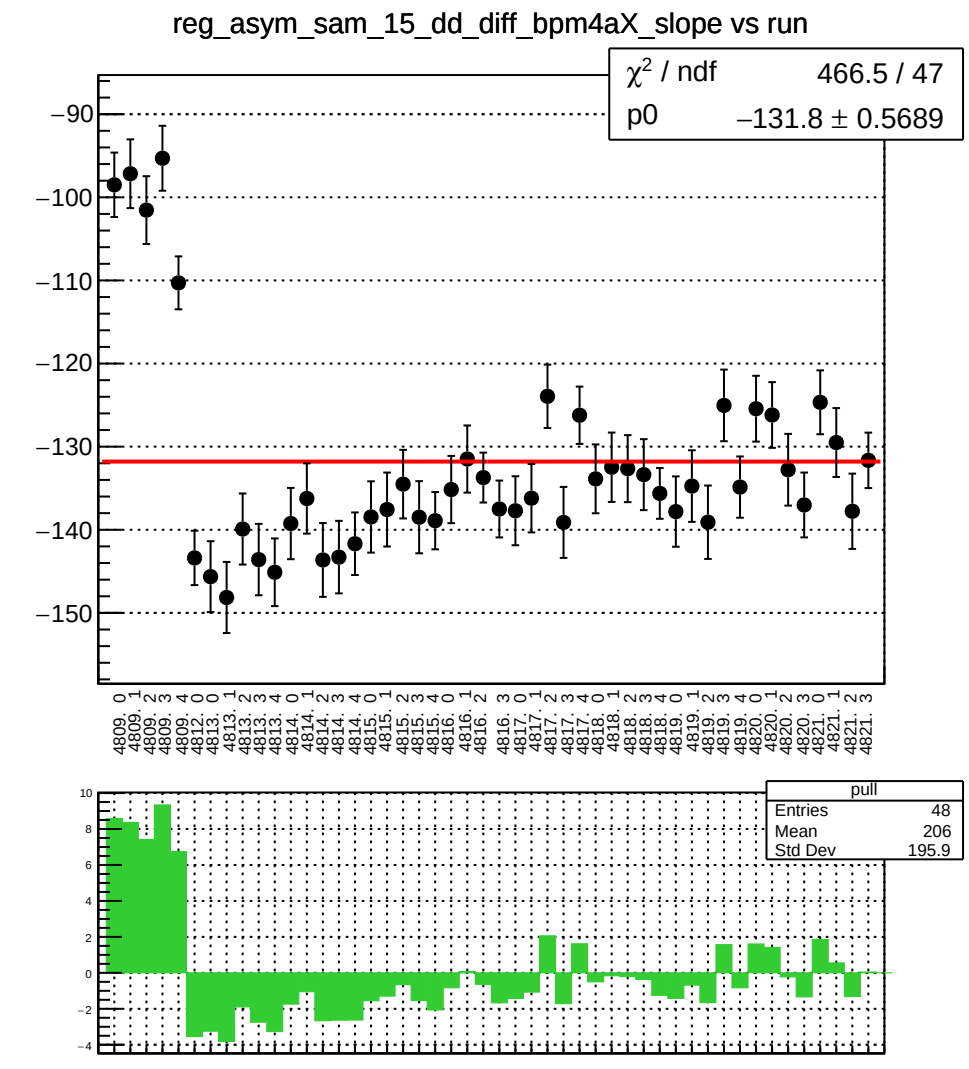

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 1924 / 47
p0 −14.51 ± 0.04854
pull
Entries 48
Mean −146.9
Std Dev 170.6
pull1D
Entries 48
Mean −0.541
Std Dev 3.828

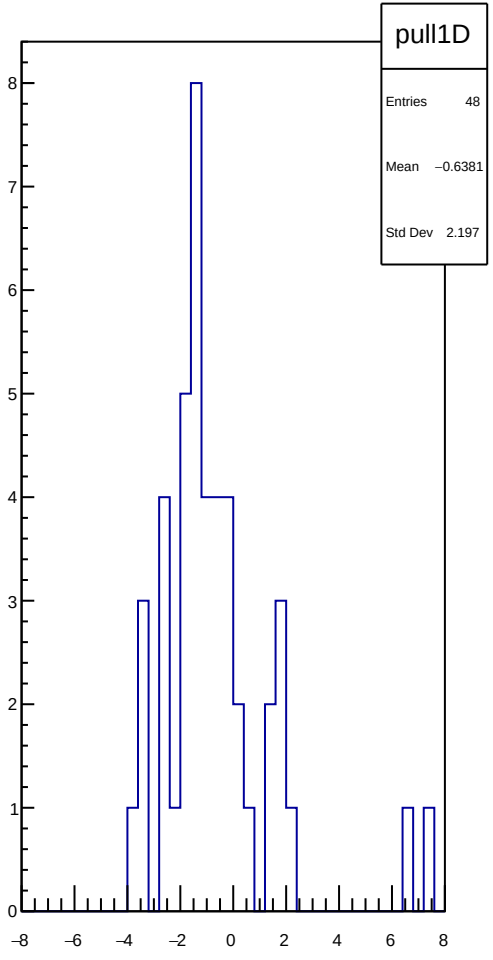

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 172.4 / 47
p0 8.21 ± 0.3614
pull
Entries 48
Mean −76.02
Std Dev 101.7

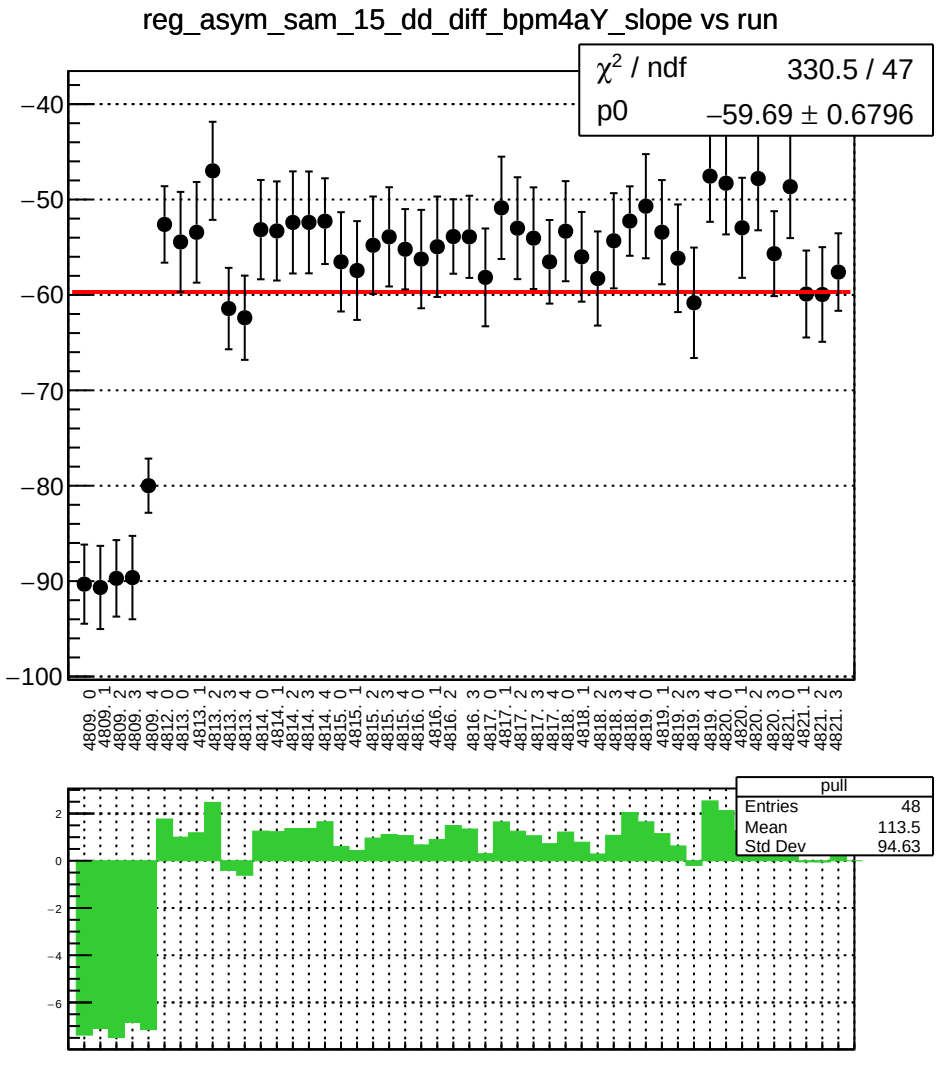

pull1D
Entries 48
Mean 0.09064
Std Dev 1.893

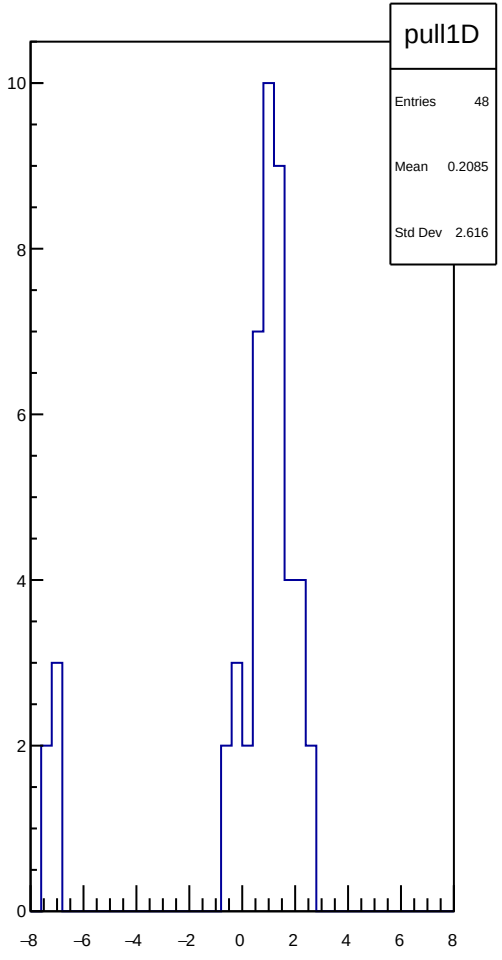

reg_asym_sam_15_avg_diff_bpm11X_slope vs run
χ² / ndf 58.64 / 47
p0 −1.898 ± 0.06259
pull
Entries 48
Mean −323.1
Std Dev 345.7

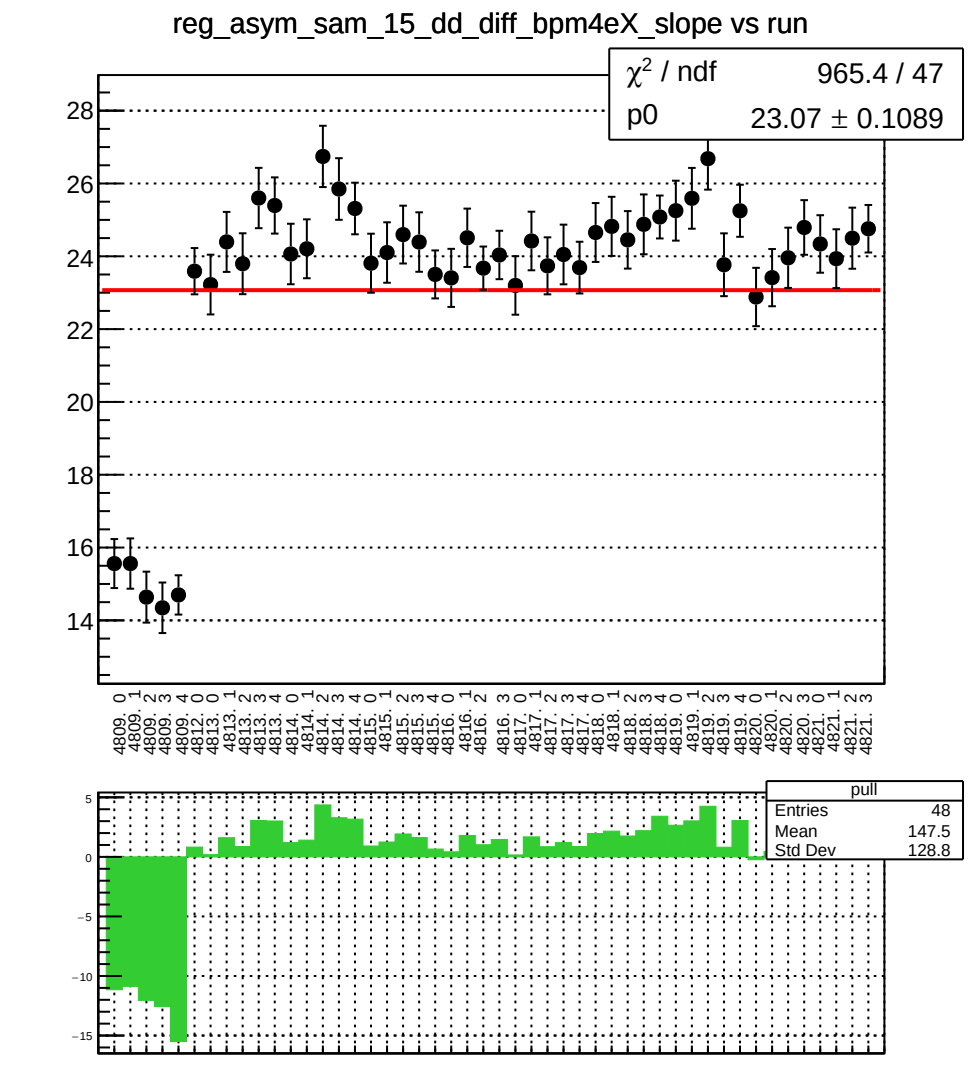

pull1D
Entries 48
Mean −0.02781
Std Dev 1.105

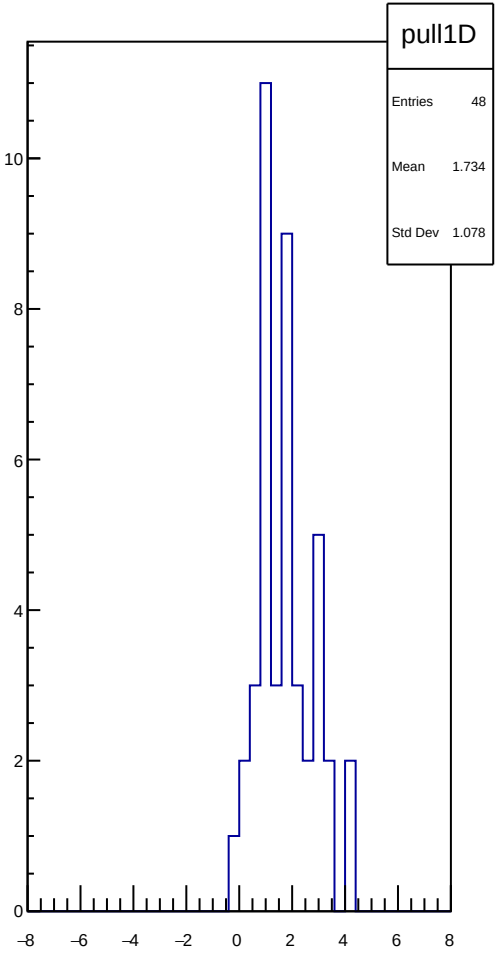

reg_asym_sam_15_dd_diff_bpm4aX_slope vs run
χ² / ndf 466.5 / 47
p0 −131.8 ± 0.5689
pull
Entries 48
Mean 206
Std Dev 195.9

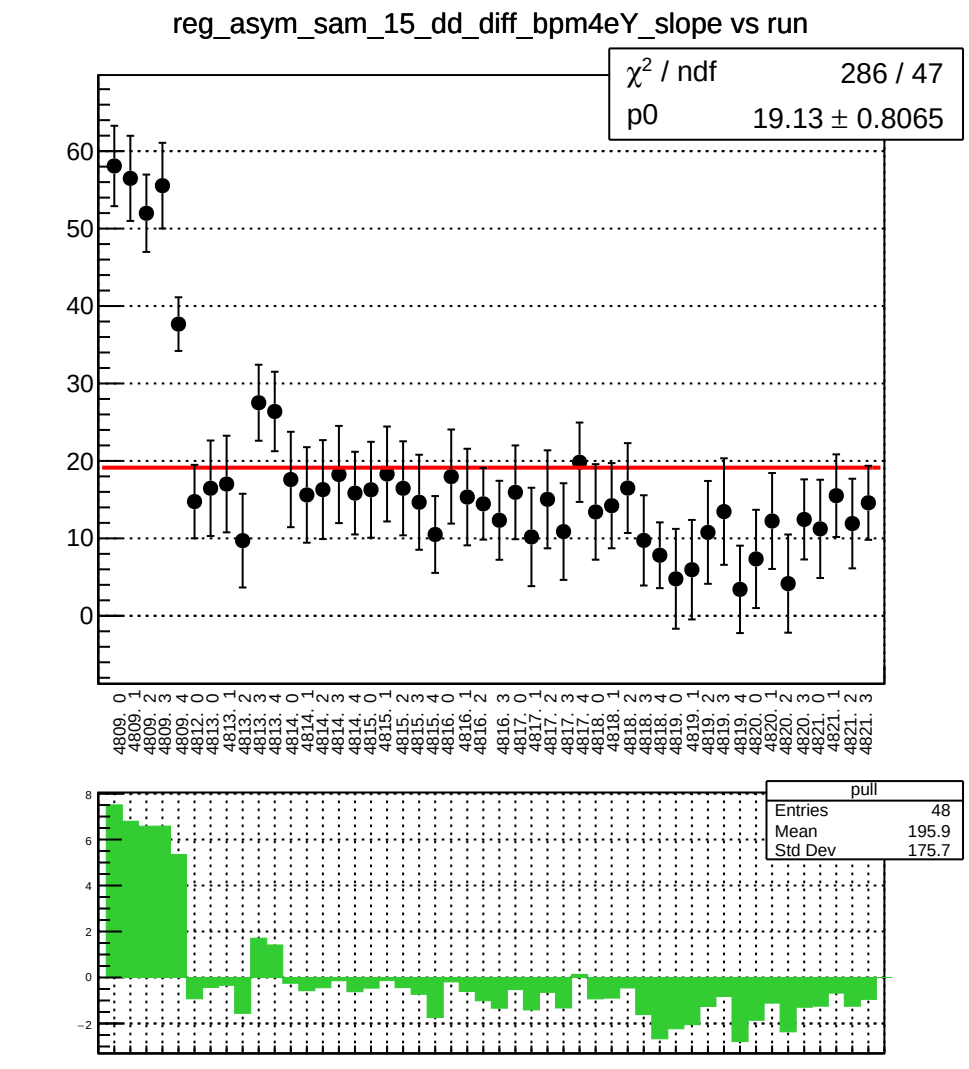

pull1D
Entries 48
Mean −0.6381
Std Dev 2.197

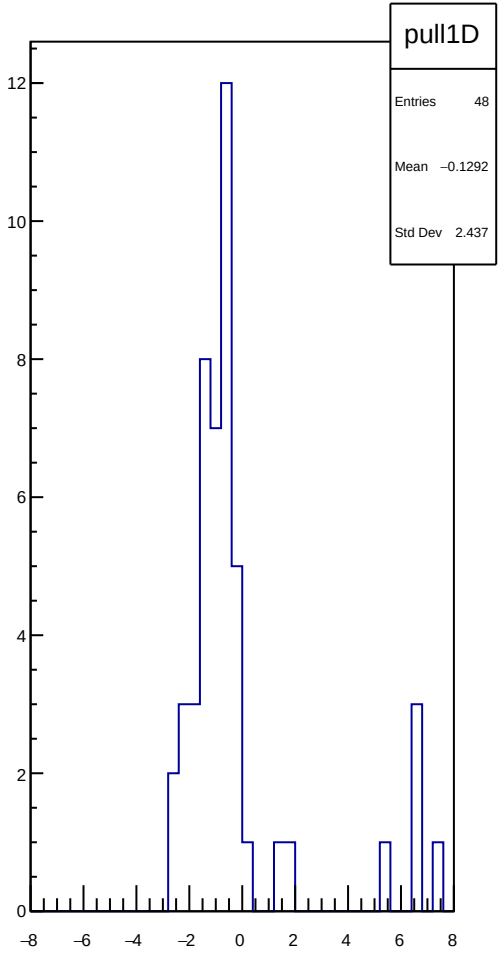

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 330.5 / 47
p0 −59.69 ± 0.6796
pull
Entries 48
Mean 113.5
Std Dev 94.63

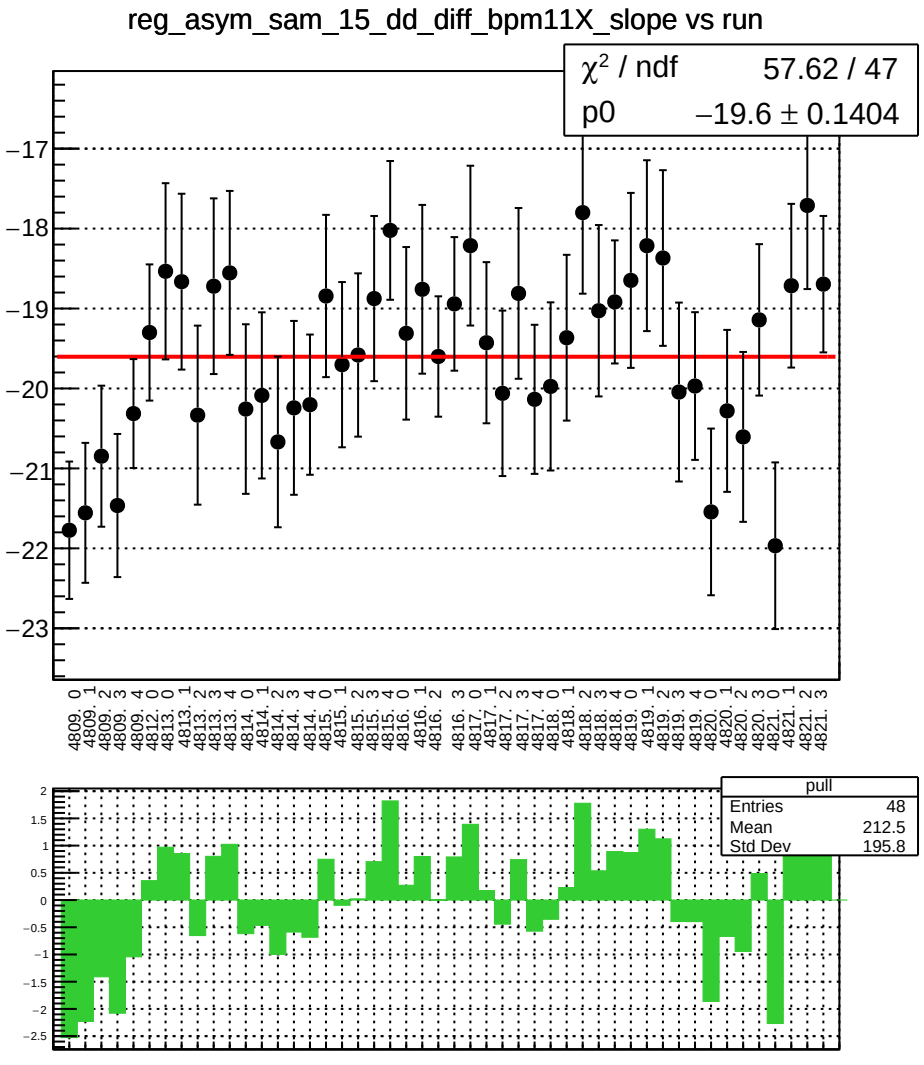

pull1D
Entries 48
Mean 0.2085
Std Dev 2.616

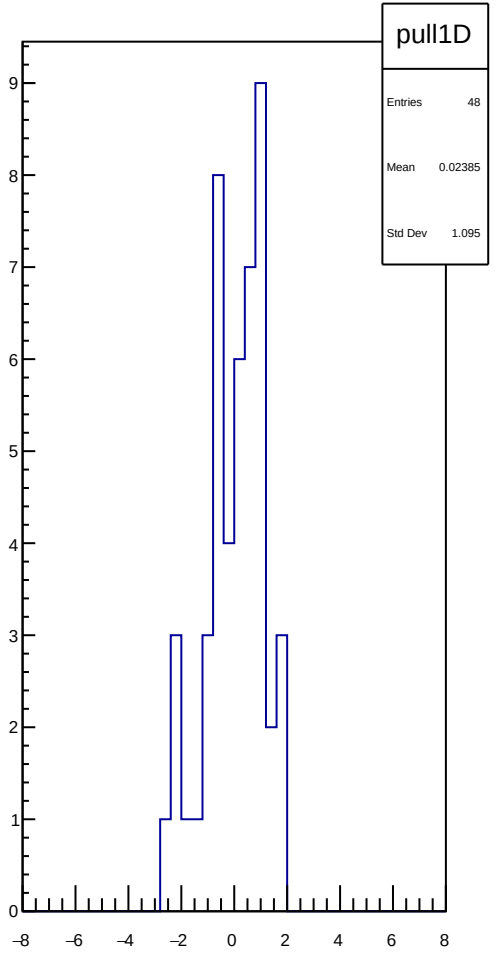

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 965.4 / 47
p0 23.07 ± 0.1089
pull
Entries 48
Mean 147.5
Std Dev 128.8

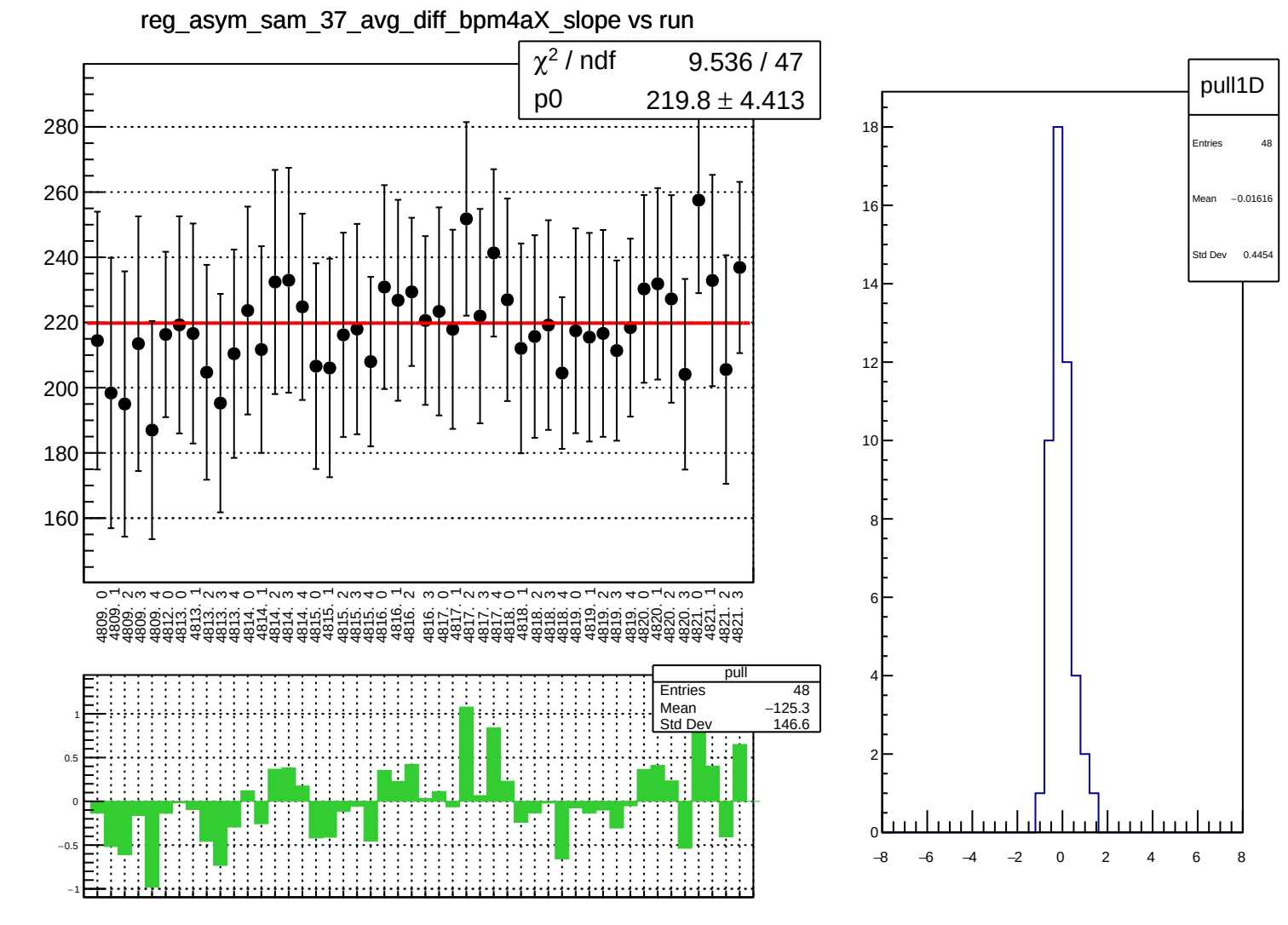

pull1D
Entries 48
Mean 1.734
Std Dev 1.078

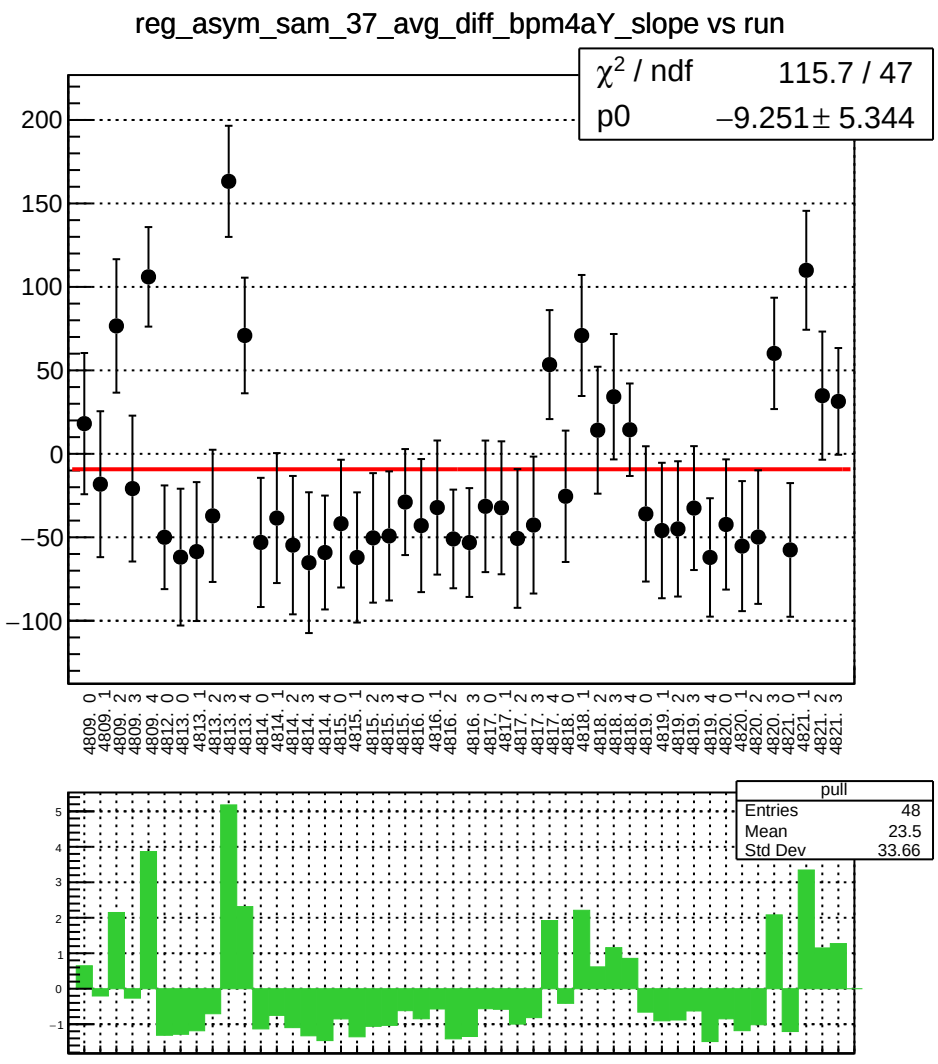

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 286 / 47
p0 19.13 ± 0.8065
pull
Entries 48
Mean 195.9
Std Dev 175.7

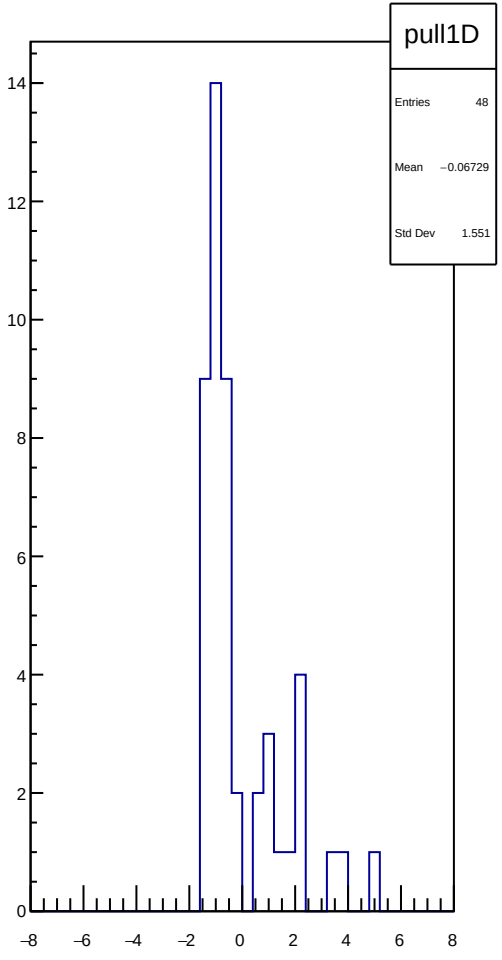

pull1D
Entries 48
Mean −0.1292
Std Dev 2.437

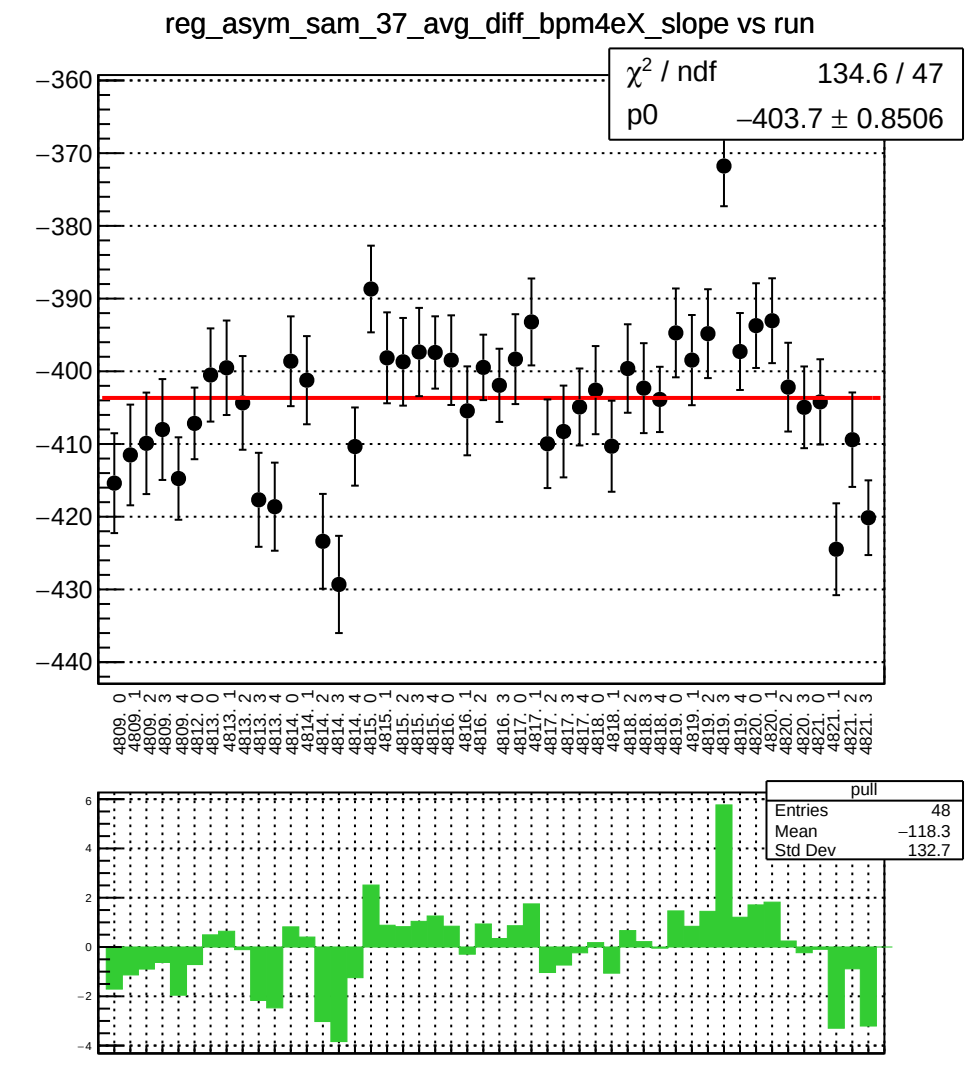

reg_asym_sam_15_dd_diff_bpm11X_slope vs run
χ² / ndf 57.62 / 47
p0 −19.6 ± 0.1404
pull
Entries 48
Mean 212.5
Std Dev 195.8

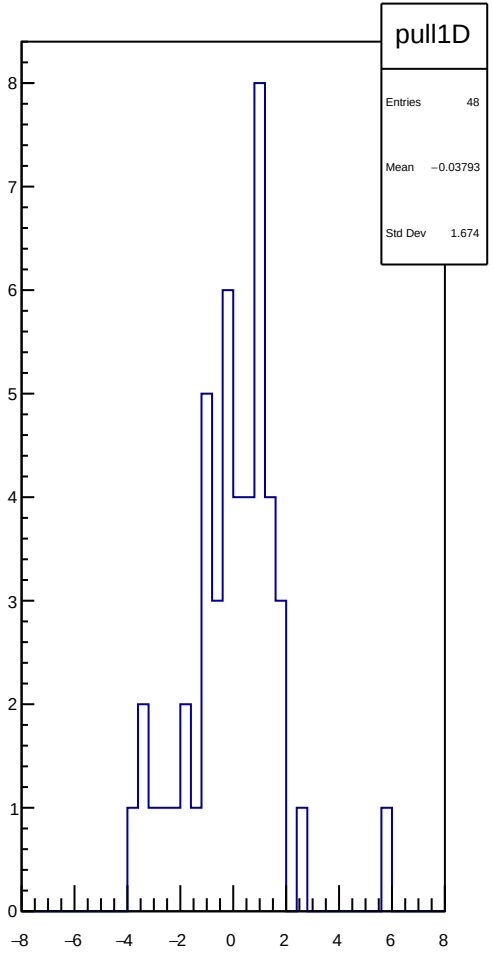

pull1D
Entries 48
Mean 0.02385
Std Dev 1.095

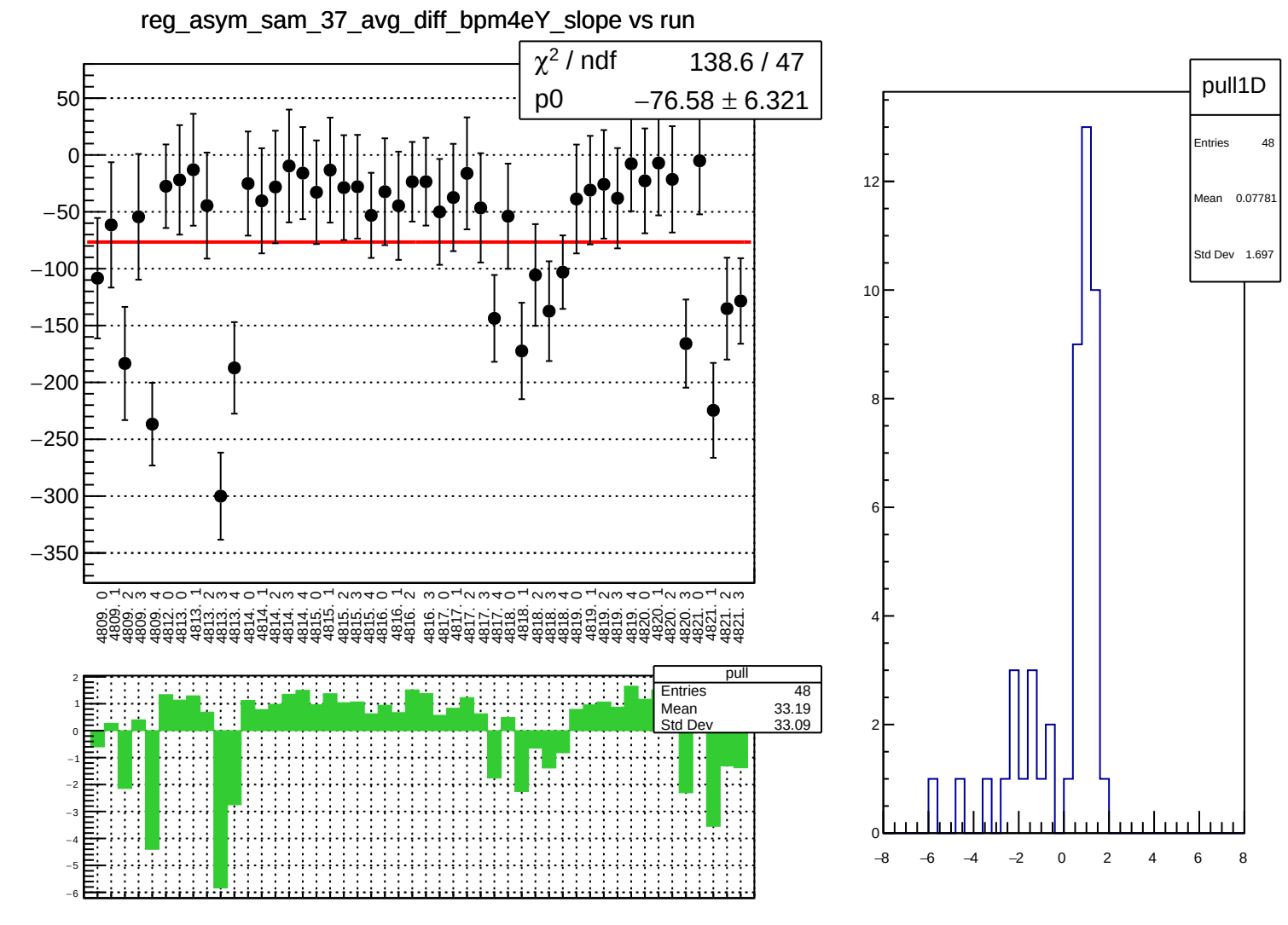

reg_asym_sam_37_avg_diff_bpm4aX_slope vs run
χ² / ndf 9.536 / 47
p0 219.8 ± 4.413
280
260
240
220
200
180
160
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean −125.3
Std Dev 146.6
1
0.5
0
−0.5
−1
pull1D
Entries 48
Mean −0.01616
Std Dev 0.4454
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

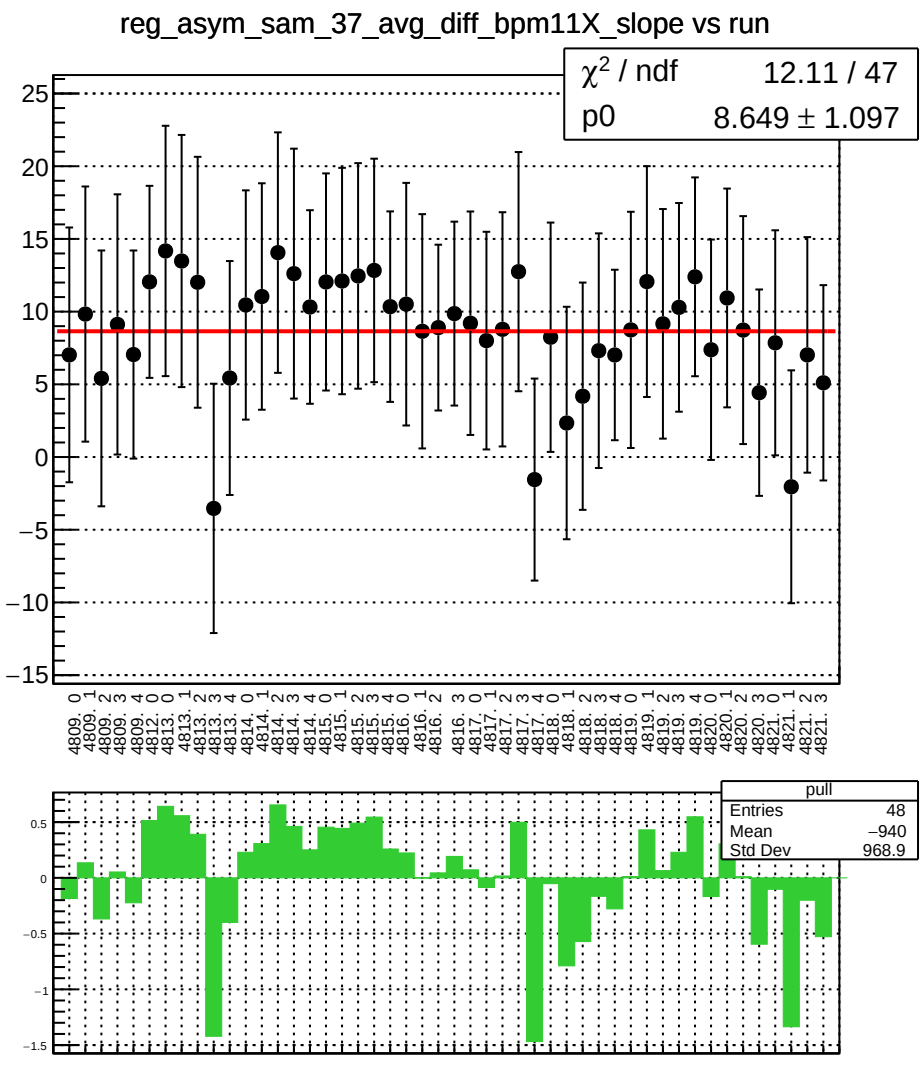

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 115.7 / 47
p0 −9.251 ± 5.344
pull
Entries 48
Mean 23.5
Std Dev 33.66

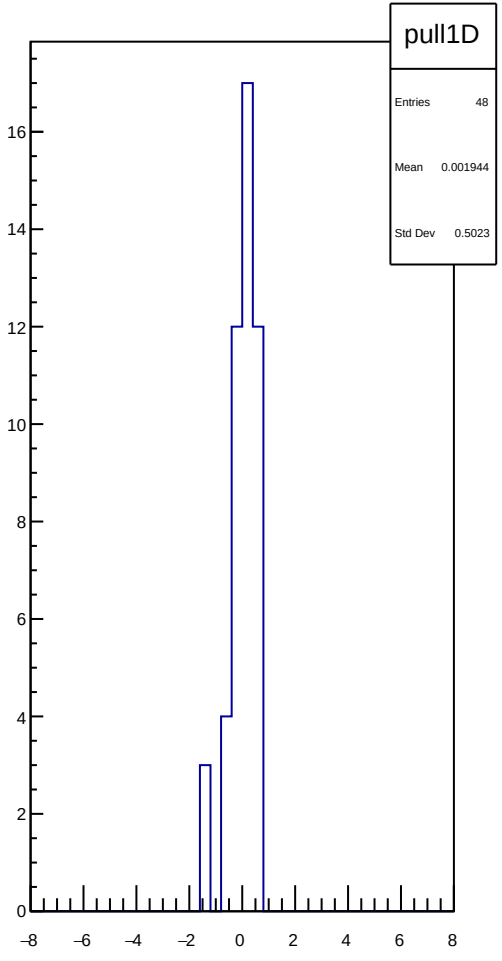

pull1D
Entries 48
Mean −0.06729
Std Dev 1.551

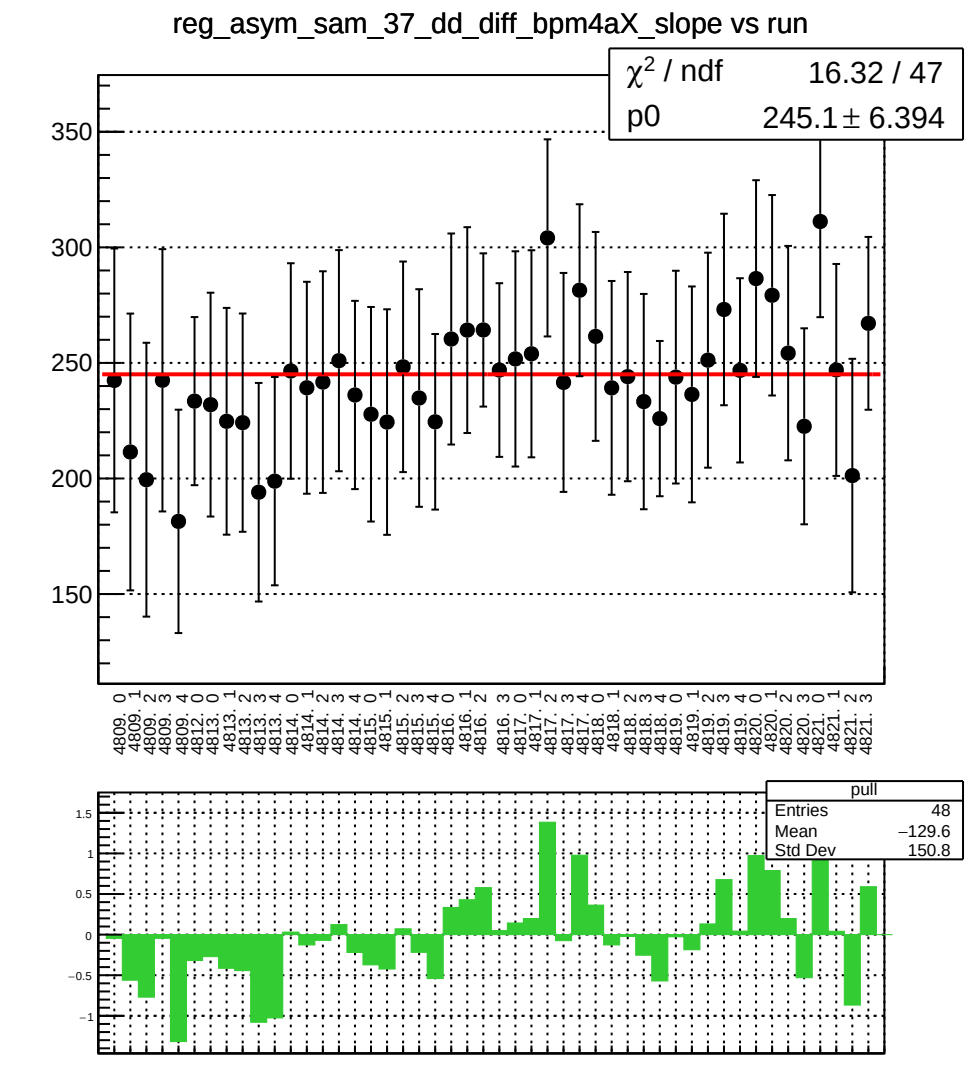

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 134.6 / 47
p0 −403.7 ± 0.8506
pull
Entries 48
Mean −118.3
Std Dev 132.7

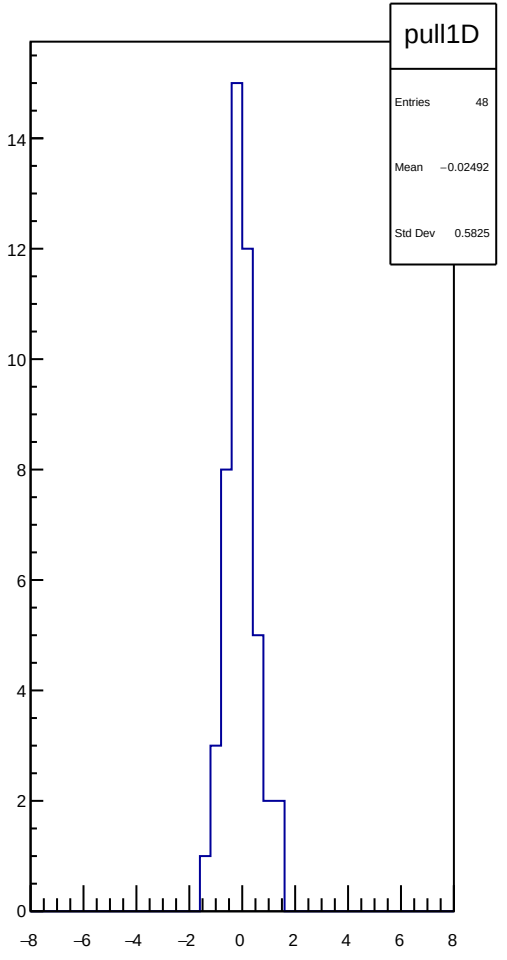

pull1D
Entries 48
Mean −0.03793
Std Dev 1.674

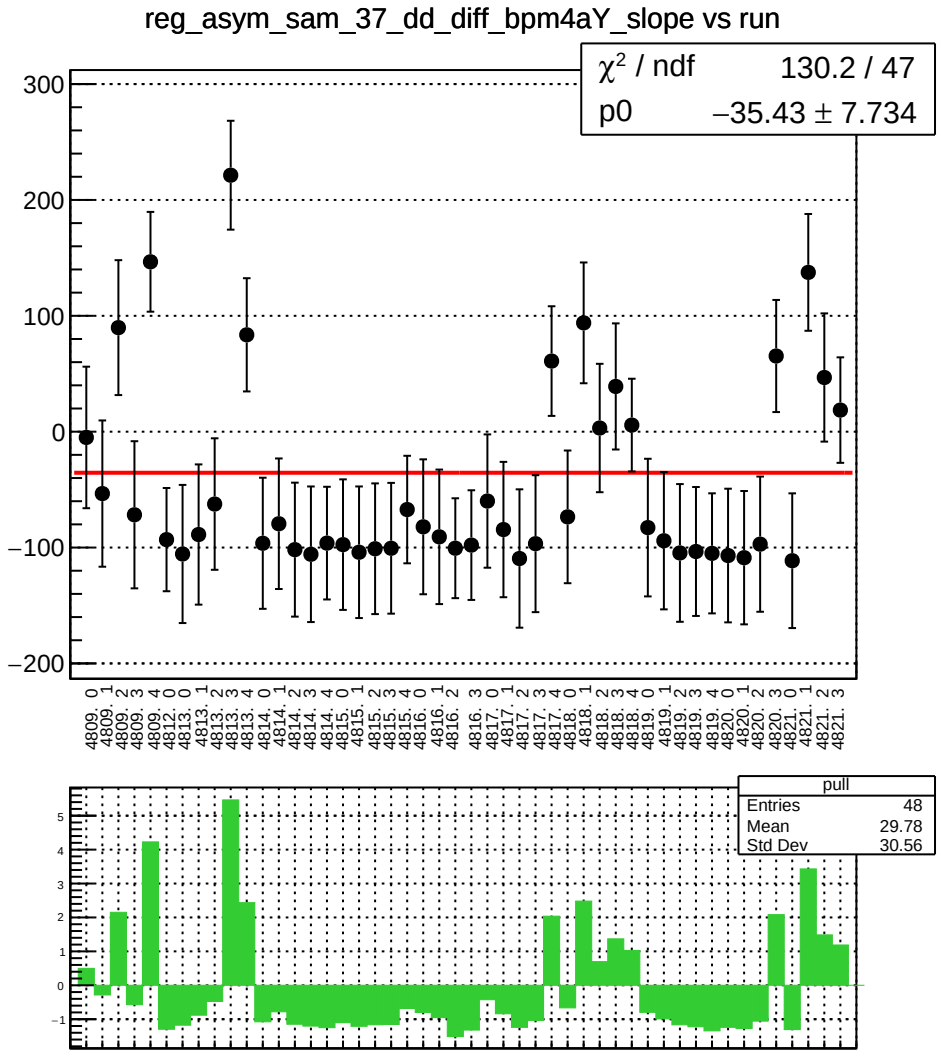

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 138.6 / 47
p0 −76.58 ± 6.321
pull
Entries 48
Mean 33.19
Std Dev 33.09
pull1D
Entries 48
Mean 0.07781
Std Dev 1.697

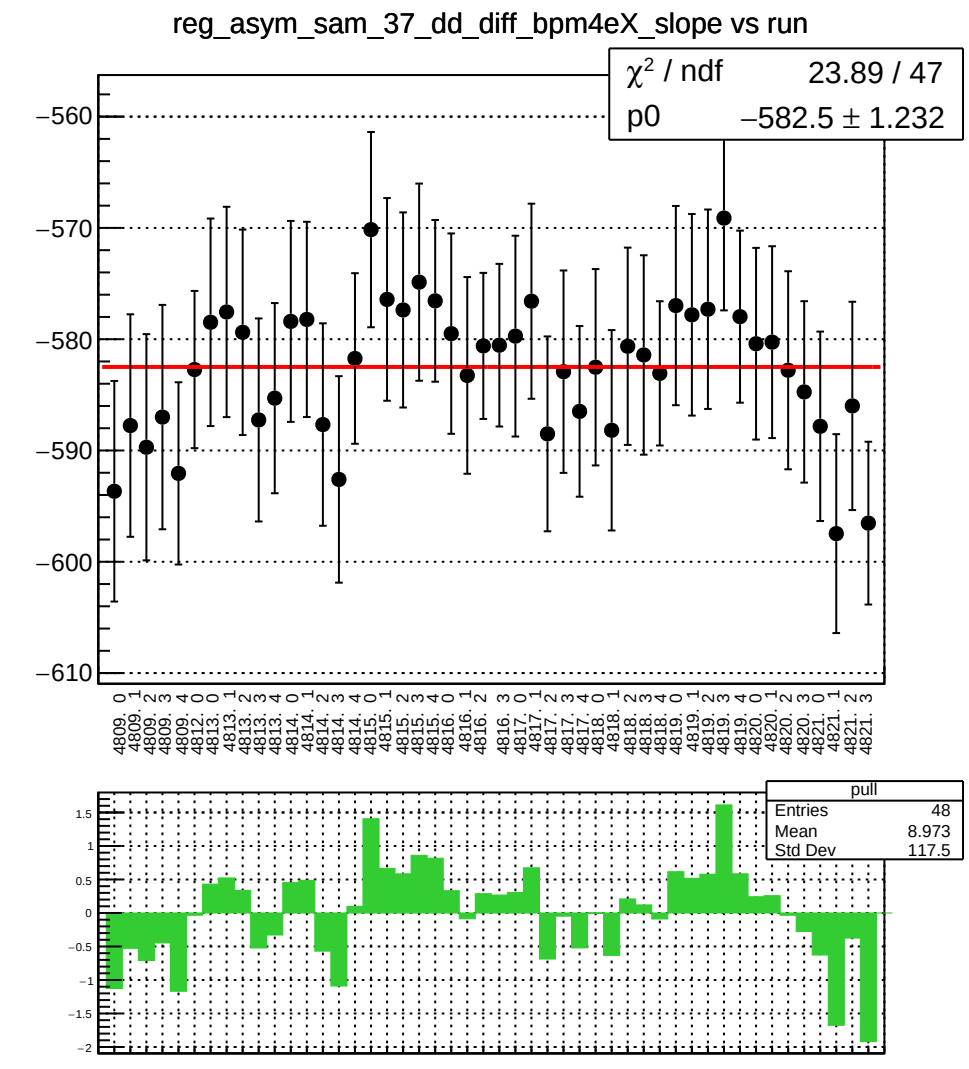

reg_asym_sam_37_avg_diff_bpm11X_slope vs run
χ² / ndf 12.11 / 47
p0 8.649 ± 1.097
pull
Entries 48
Mean −940
Std Dev 968.9

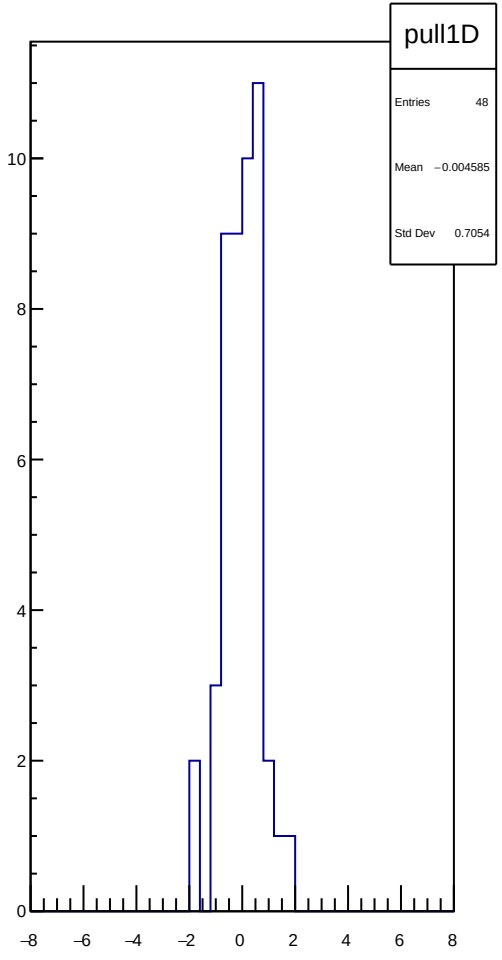

pull1D
Entries 48
Mean 0.001944
Std Dev 0.5023

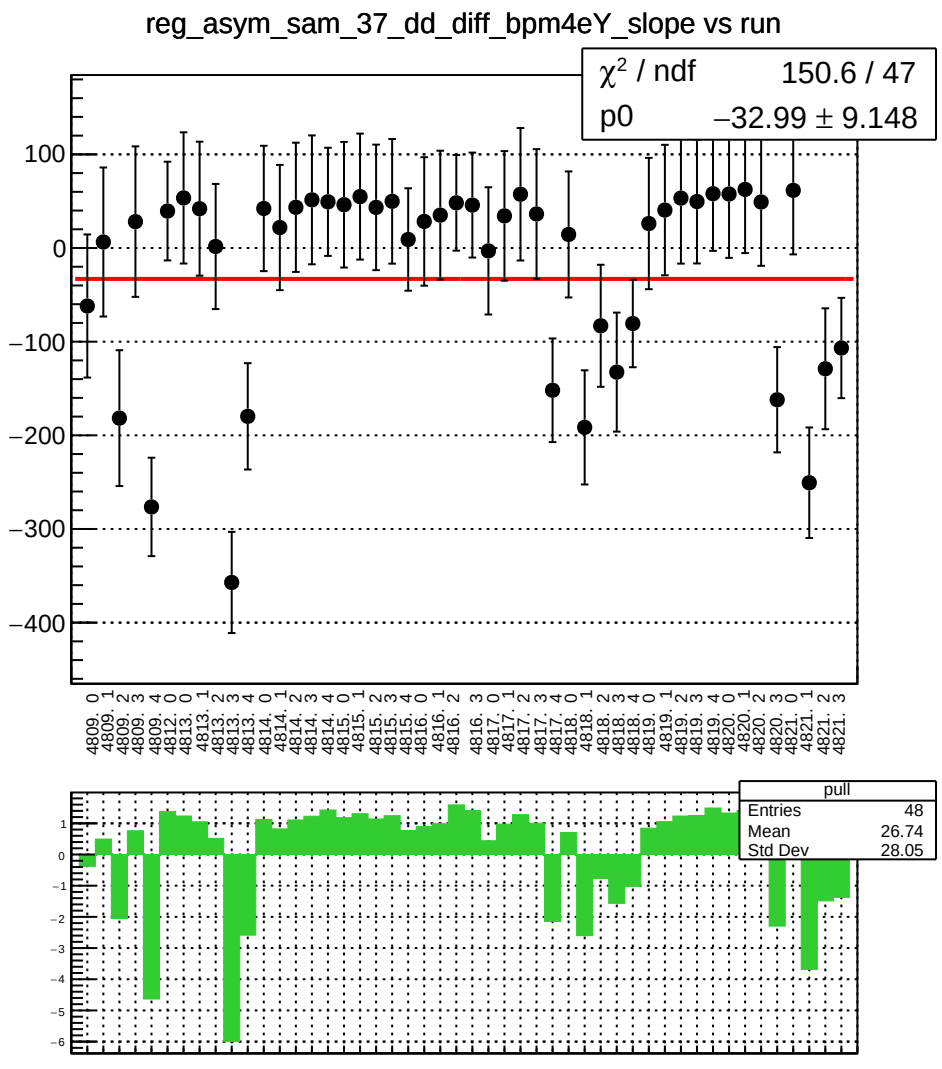

reg_asym_sam_37_dd_diff_bpm4aX_slope vs run
χ² / ndf 16.32 / 47
p0 245.1 ± 6.394
350
300
250
200
150
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean −129.6
Std Dev 150.8
1.5
1
0.5
0
−0.5
−1

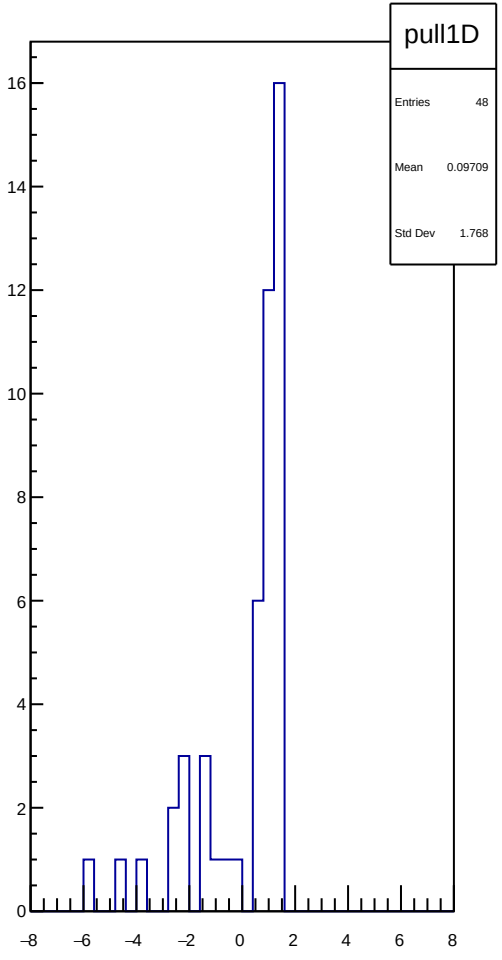

pull1D
Entries 48
Mean −0.02492
Std Dev 0.5825
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

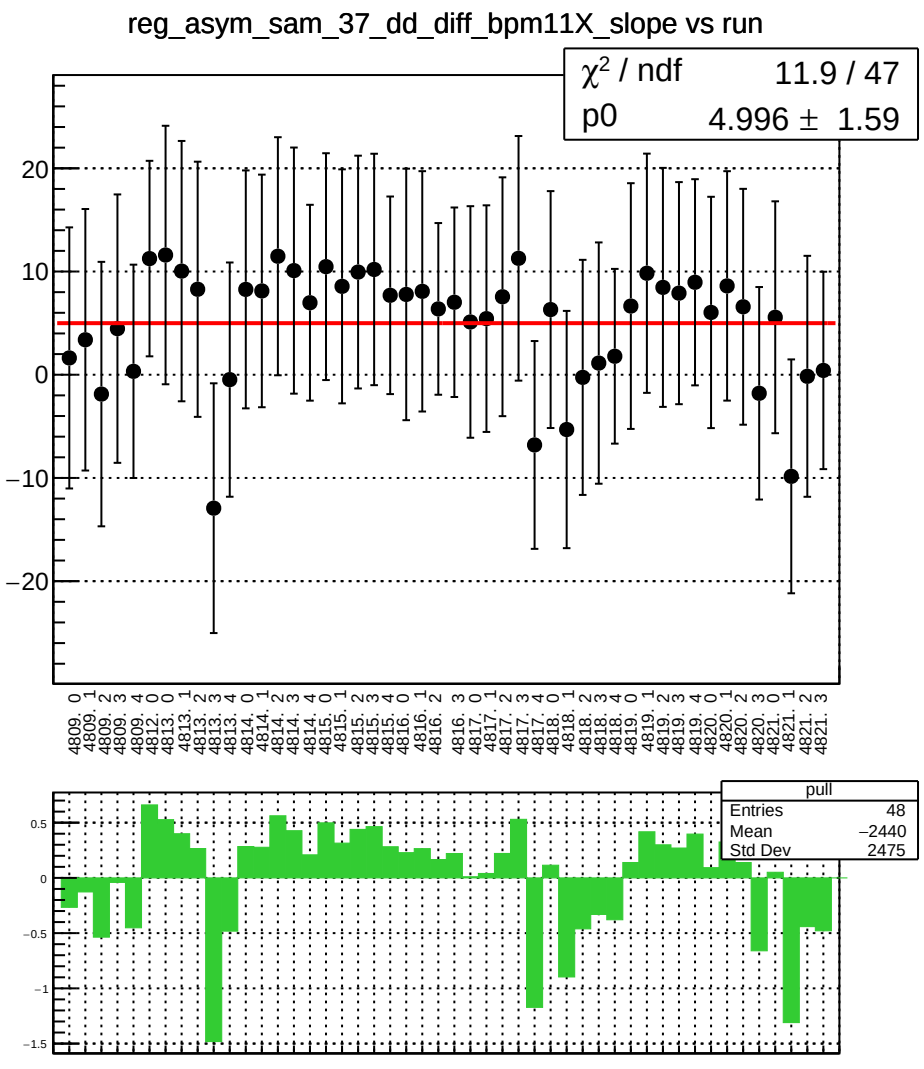

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 130.2 / 47
p0 −35.43 ± 7.734
300
200
100
0
−100
−200
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 29.78
Std Dev 30.56
5
4
3
2
1
0
−1
pull1D
Entries 48
Mean −0.08462
Std Dev 1.645
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

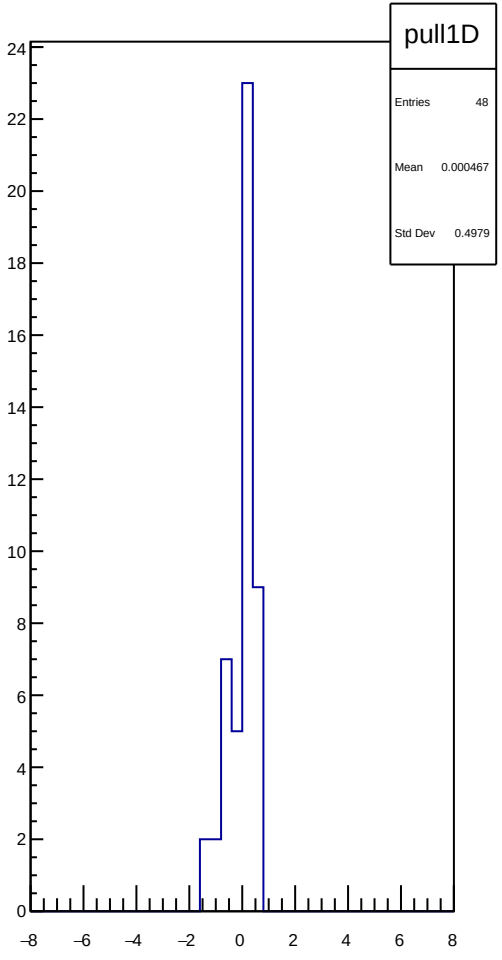

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 23.89 / 47
p0 −582.5 ± 1.232
pull
Entries 48
Mean 8.973
Std Dev 117.5

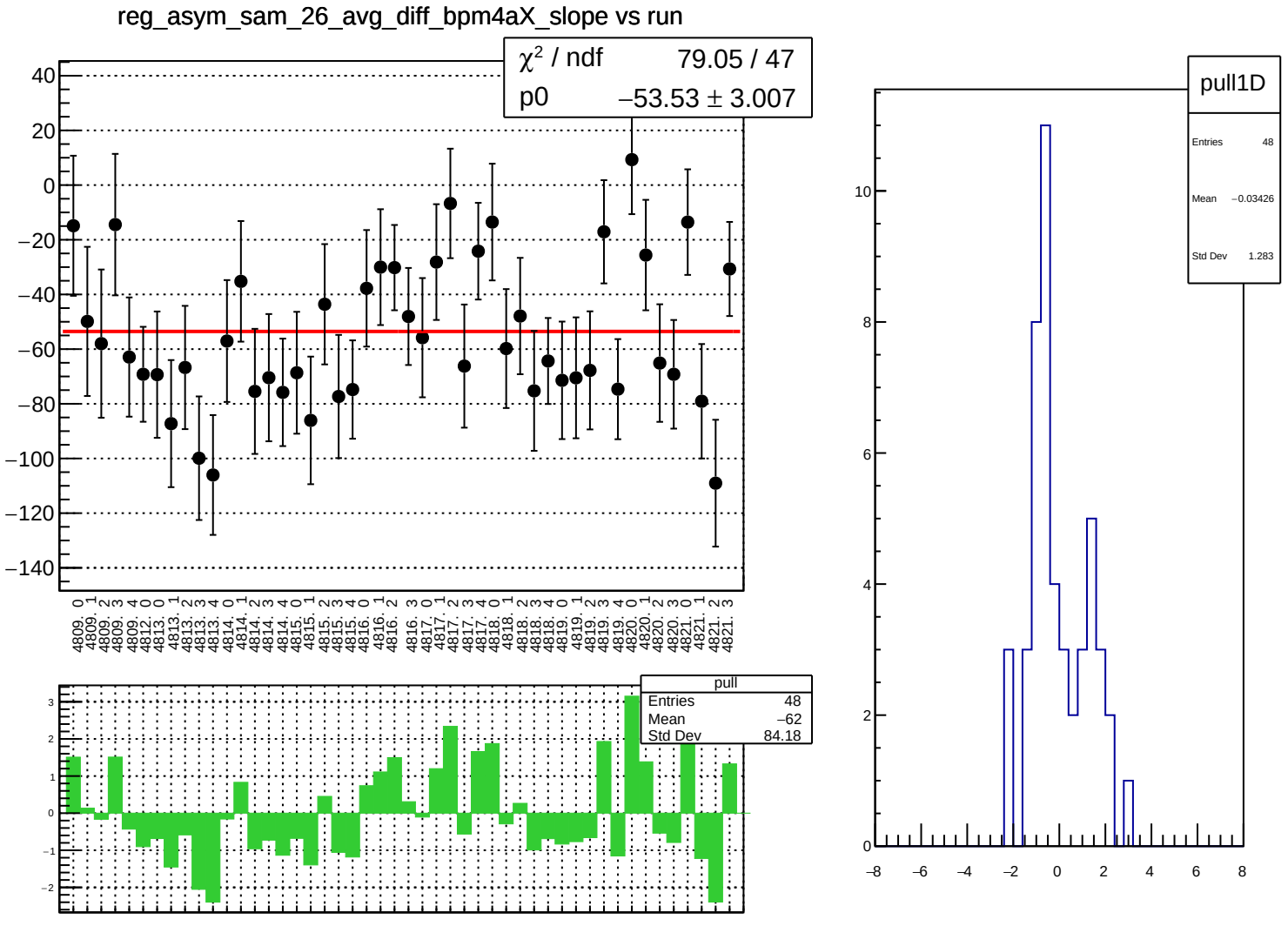

pull1D
Entries 48
Mean −0.004585
Std Dev 0.7054

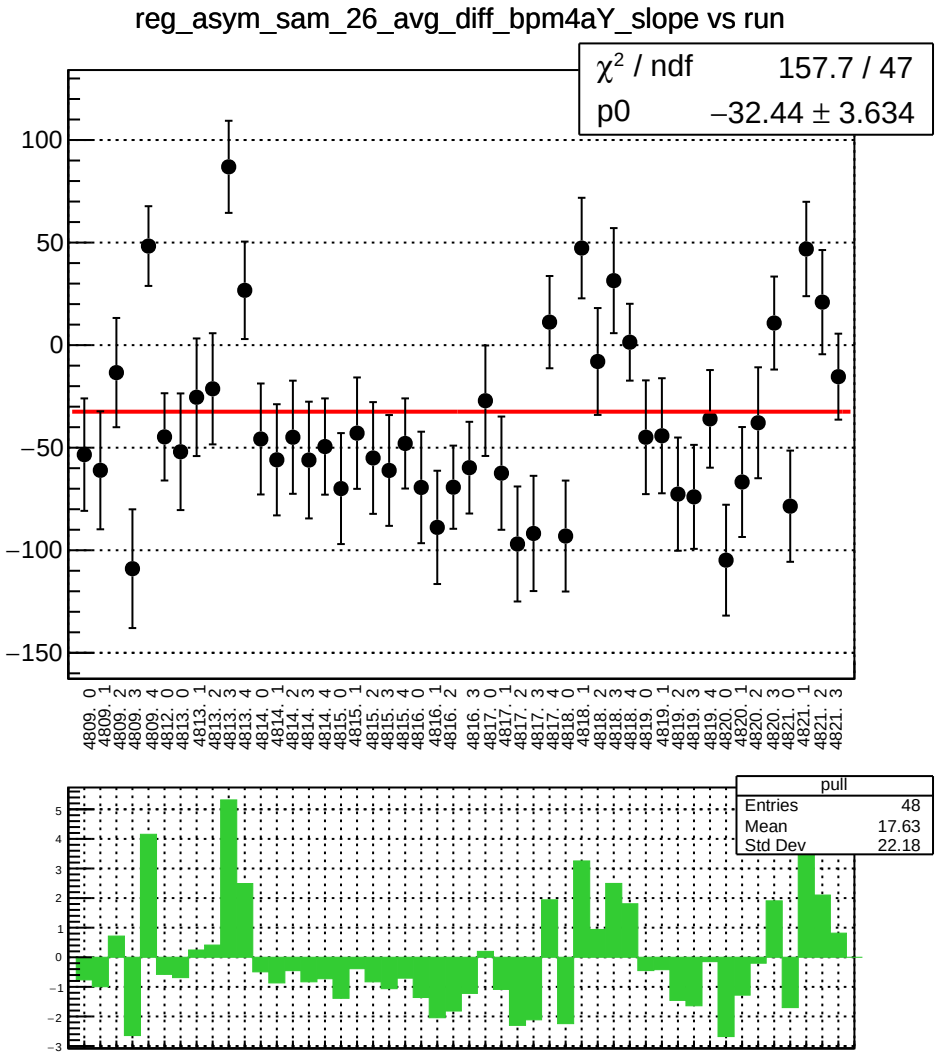

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 150.6 / 47
p0 −32.99 ± 9.148
100
0
−100
−200
−300
−400
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 26.74
Std Dev 28.05
1
0
−1
−2
−3
−4
−5
−6

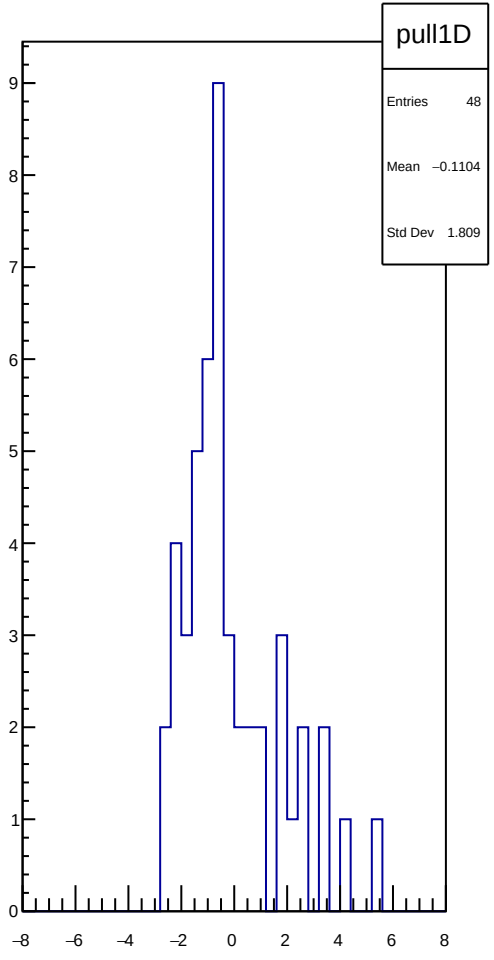

pull1D
Entries 48
Mean 0.09709
Std Dev 1.768
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

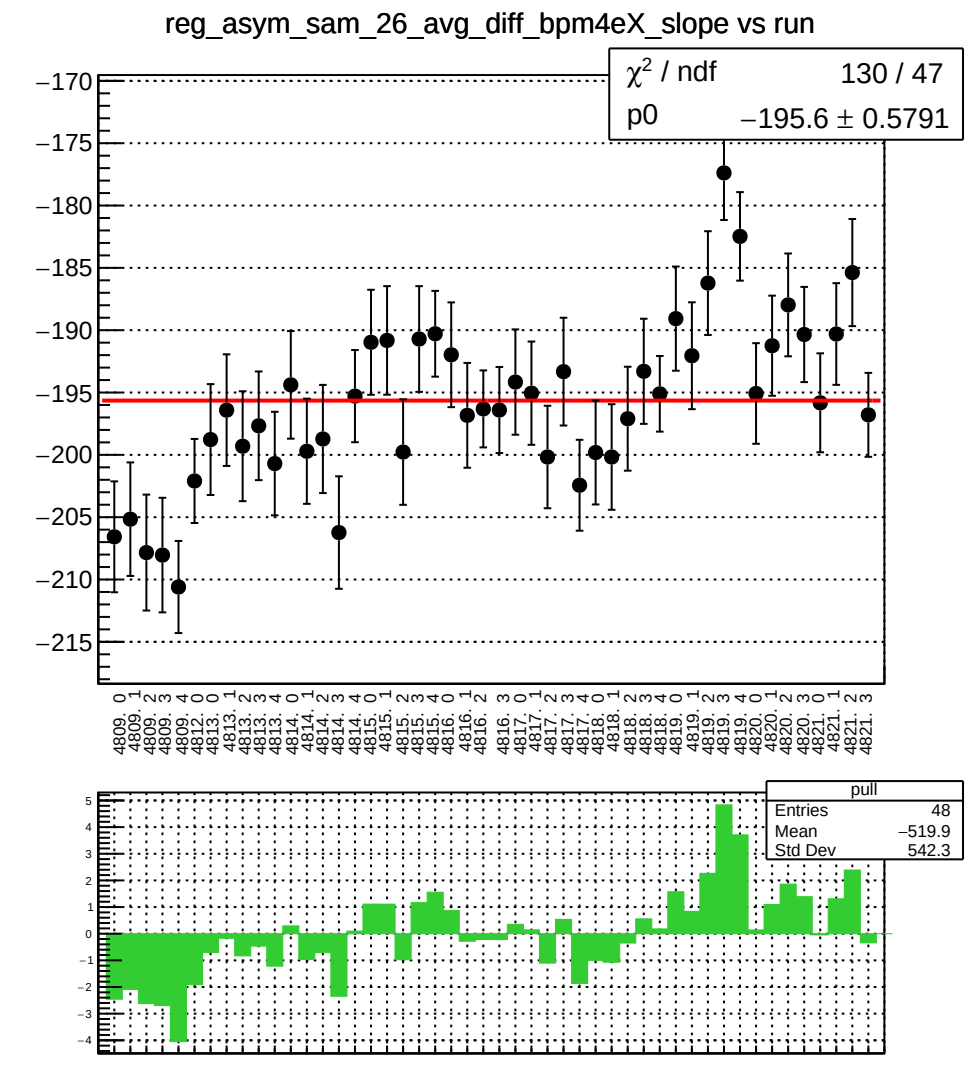

reg_asym_sam_37_dd_diff_bpm11X_slope vs run
χ² / ndf 11.9 / 47
p0 4.996 ± 1.59
20
10
0
−10
−20
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean −2440
Std Dev 2475
0.5
0
−0.5
−1
−1.5

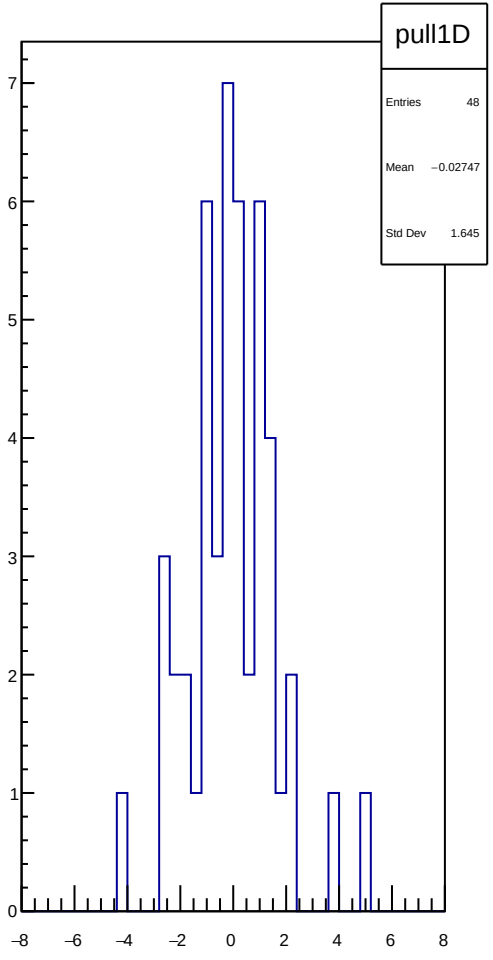

pull1D
Entries 48
Mean 0.000467
Std Dev 0.4979
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

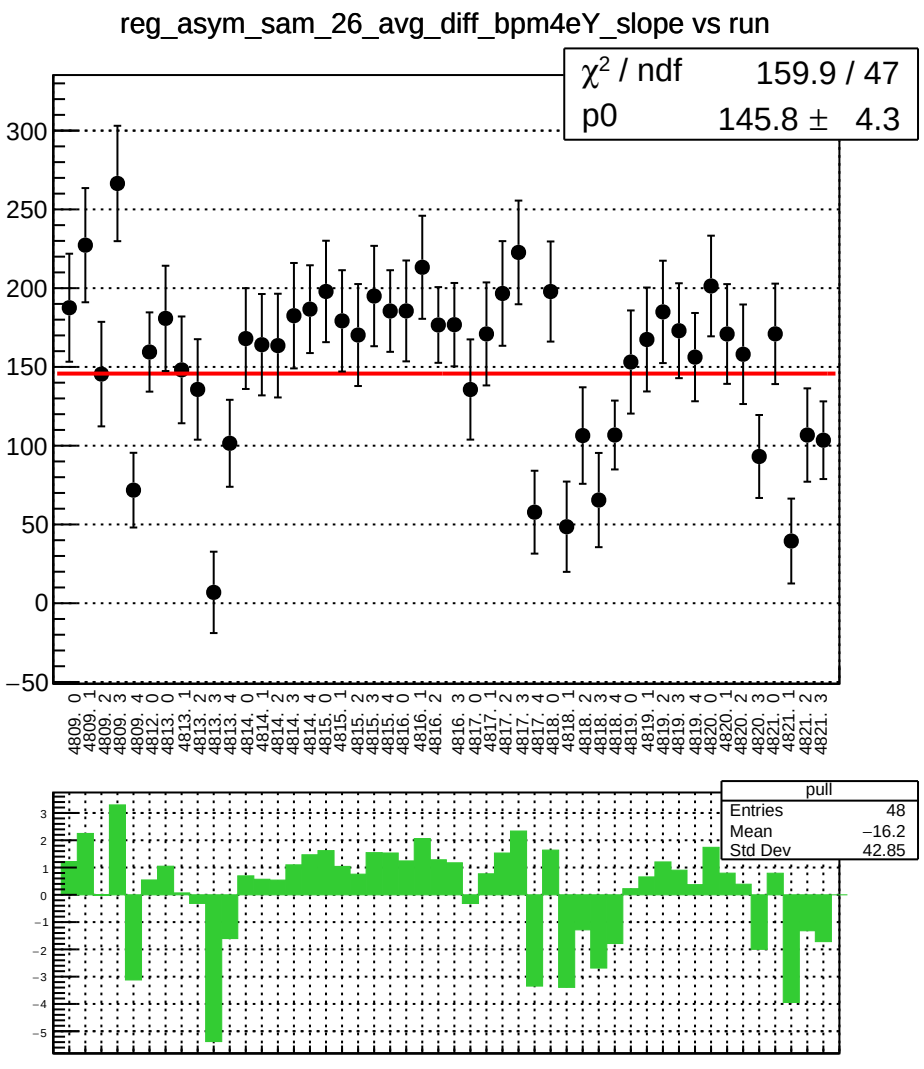

reg_asym_sam_26_avg_diff_bpm4aX_slope vs run
χ² / ndf 79.05 / 47
p0 −53.53 ± 3.007
pull
Entries 48
Mean −62
Std Dev 84.18
pull1D
Entries 48
Mean −0.03426
Std Dev 1.283

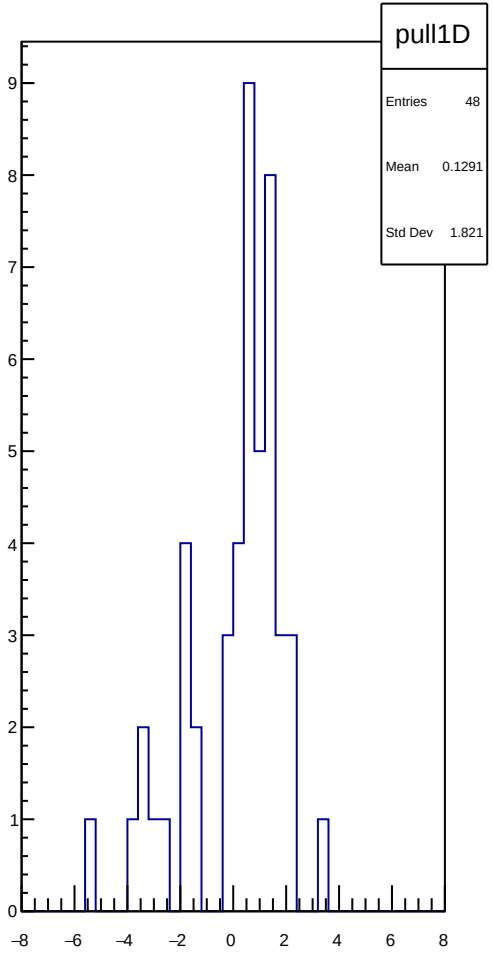

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 157.7 / 47
p0 −32.44 ± 3.634
pull
Entries 48
Mean 17.63
Std Dev 22.18

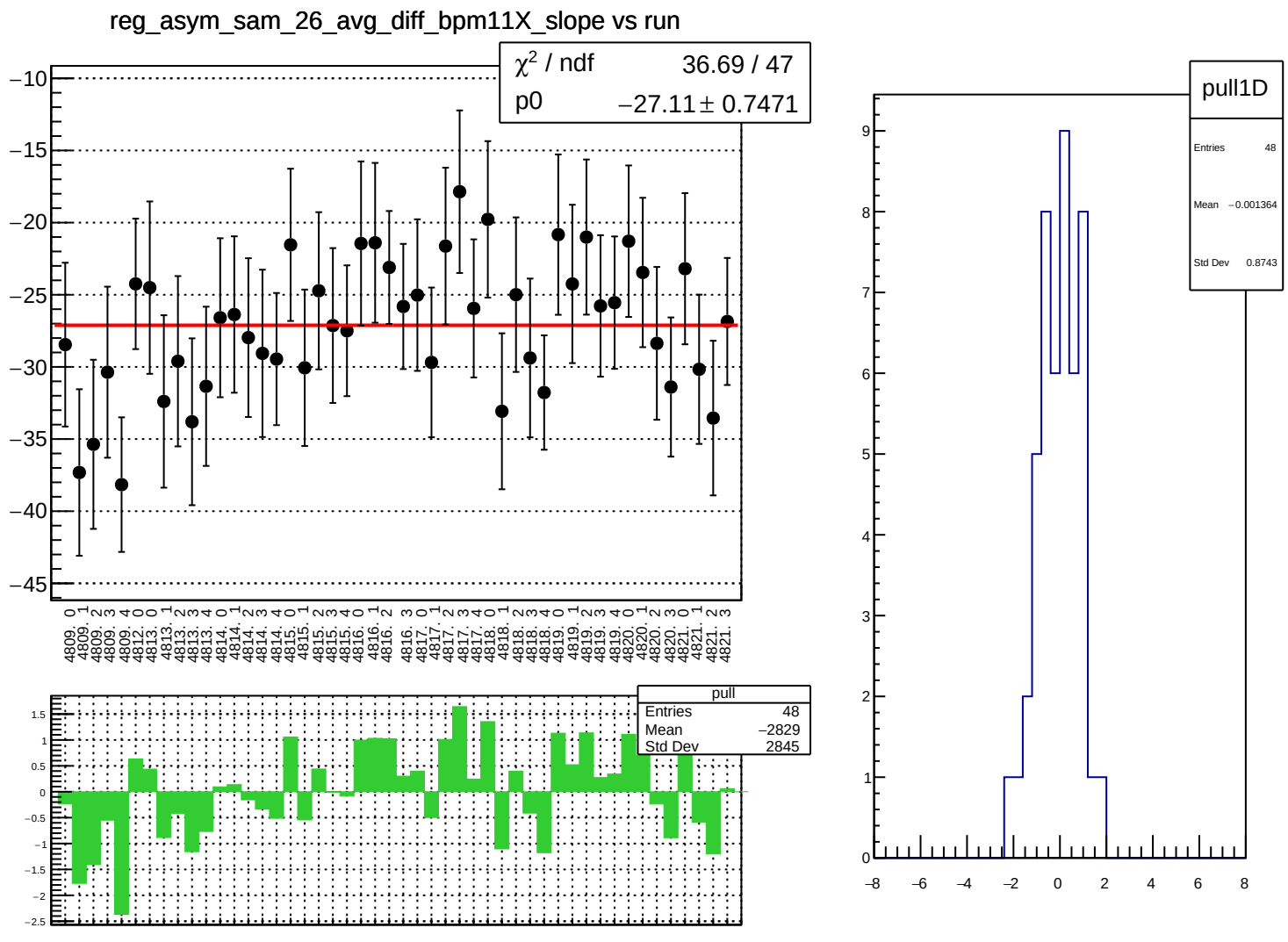

pull1D
Entries 48
Mean −0.1104
Std Dev 1.809

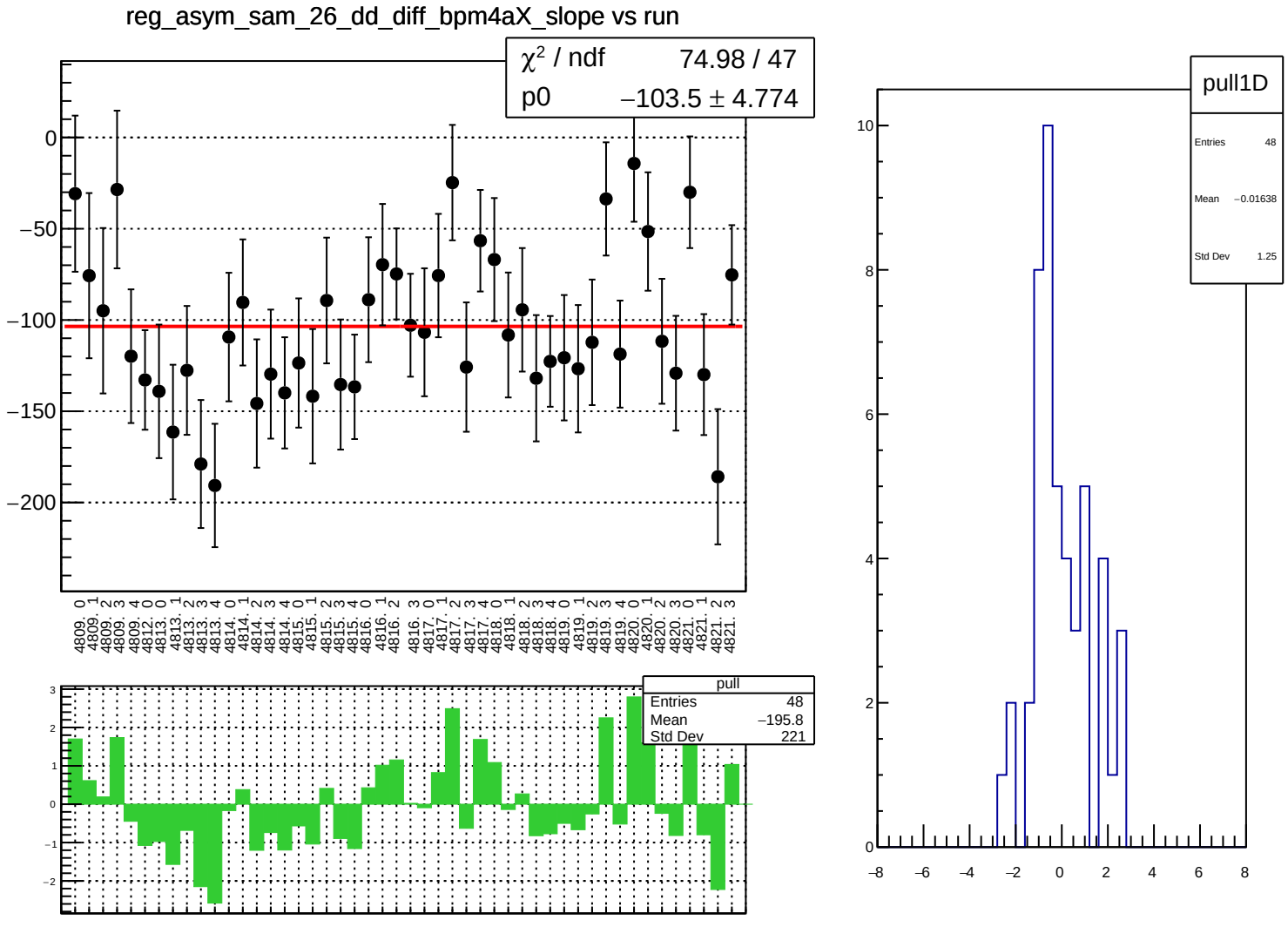

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 130 / 47
p0 −195.6 ± 0.5791
pull
Entries 48
Mean −519.9
Std Dev 542.3

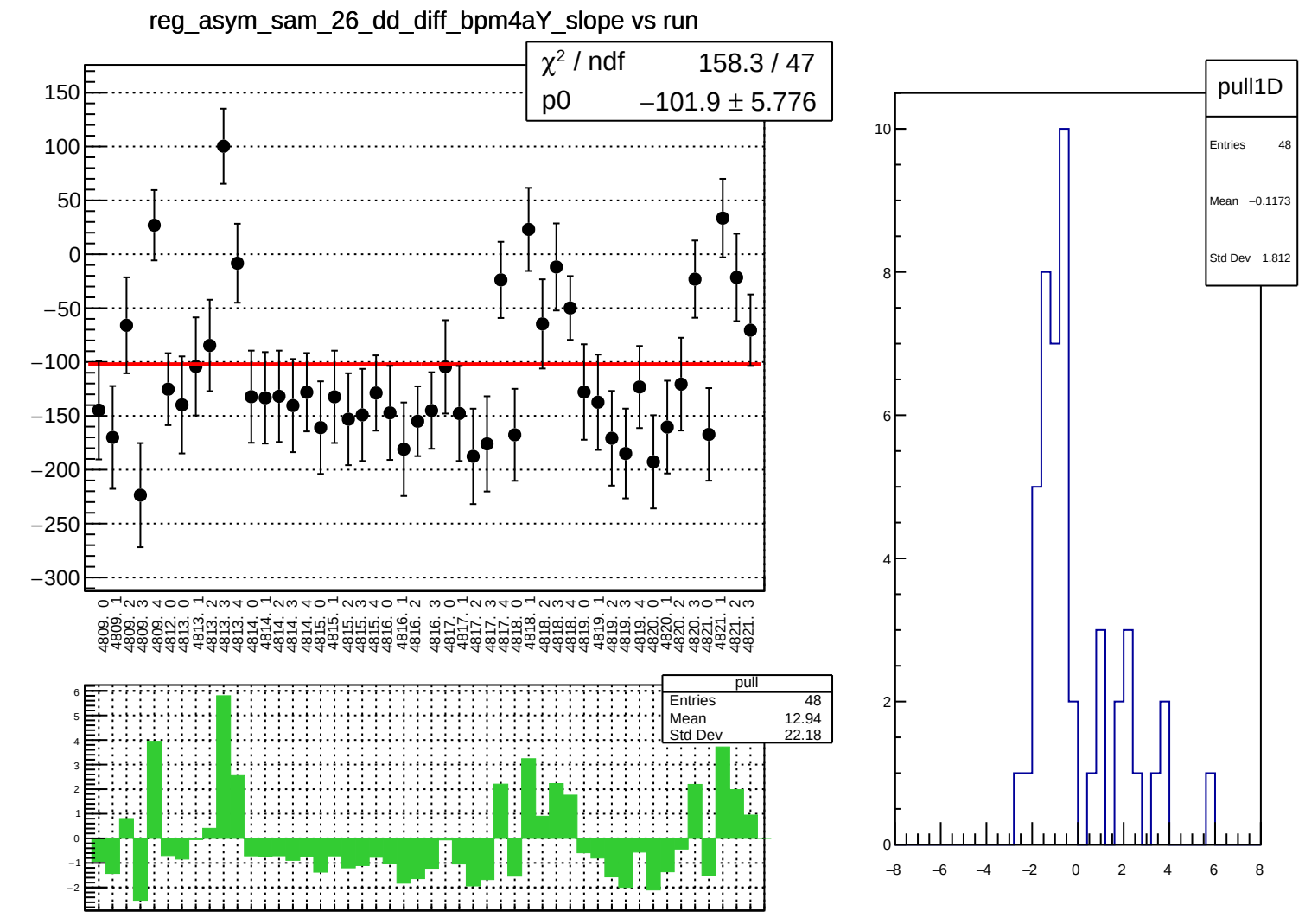

pull1D
Entries 48
Mean −0.02747
Std Dev 1.645

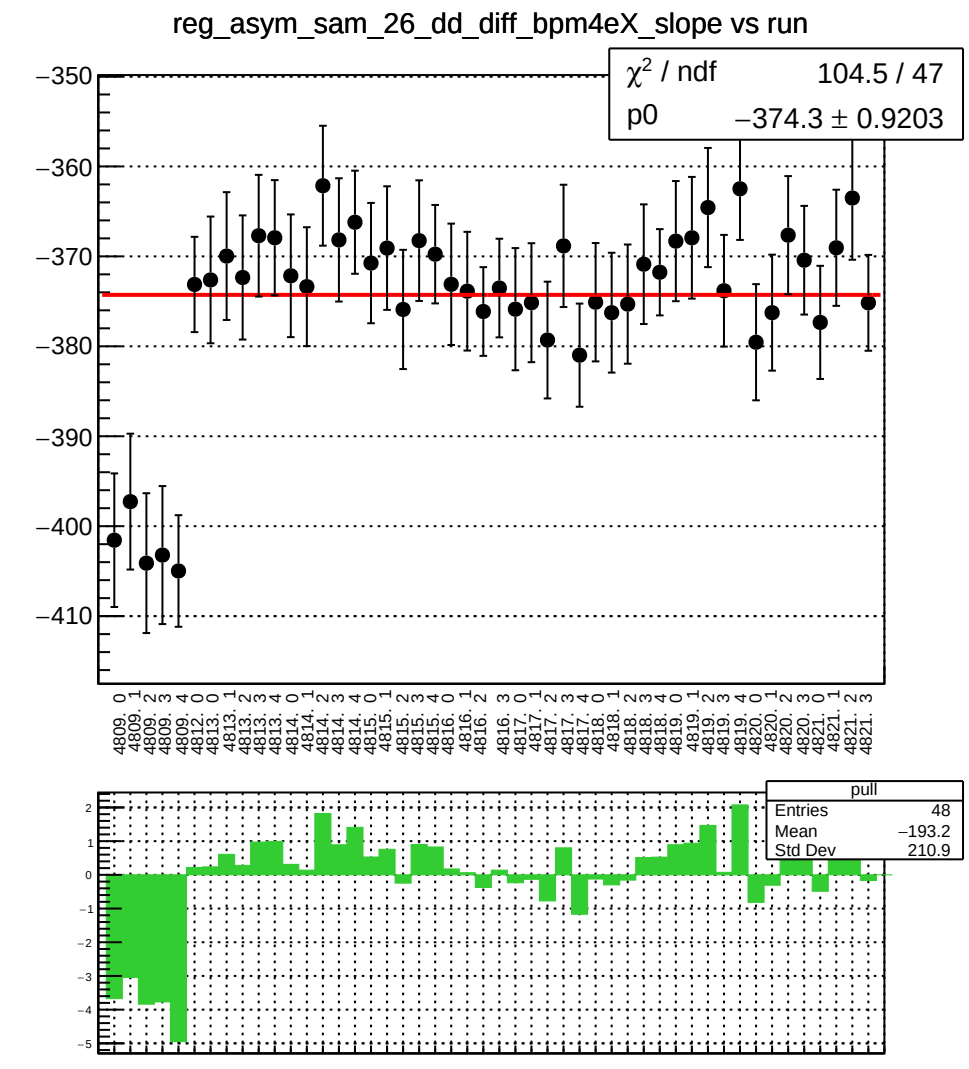

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 159.9 / 47
p0 145.8 ± 4.3
300
250
200
150
100
50
0
−50
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean −16.2
Std Dev 42.85
3
2
1
0
−1
−2
−3
−4
−5

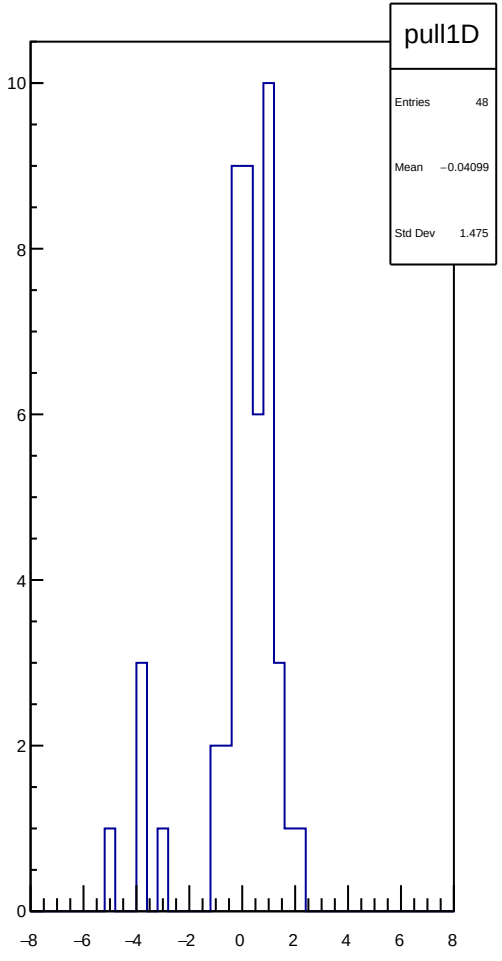

pull1D
Entries 48
Mean 0.1291
Std Dev 1.821
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

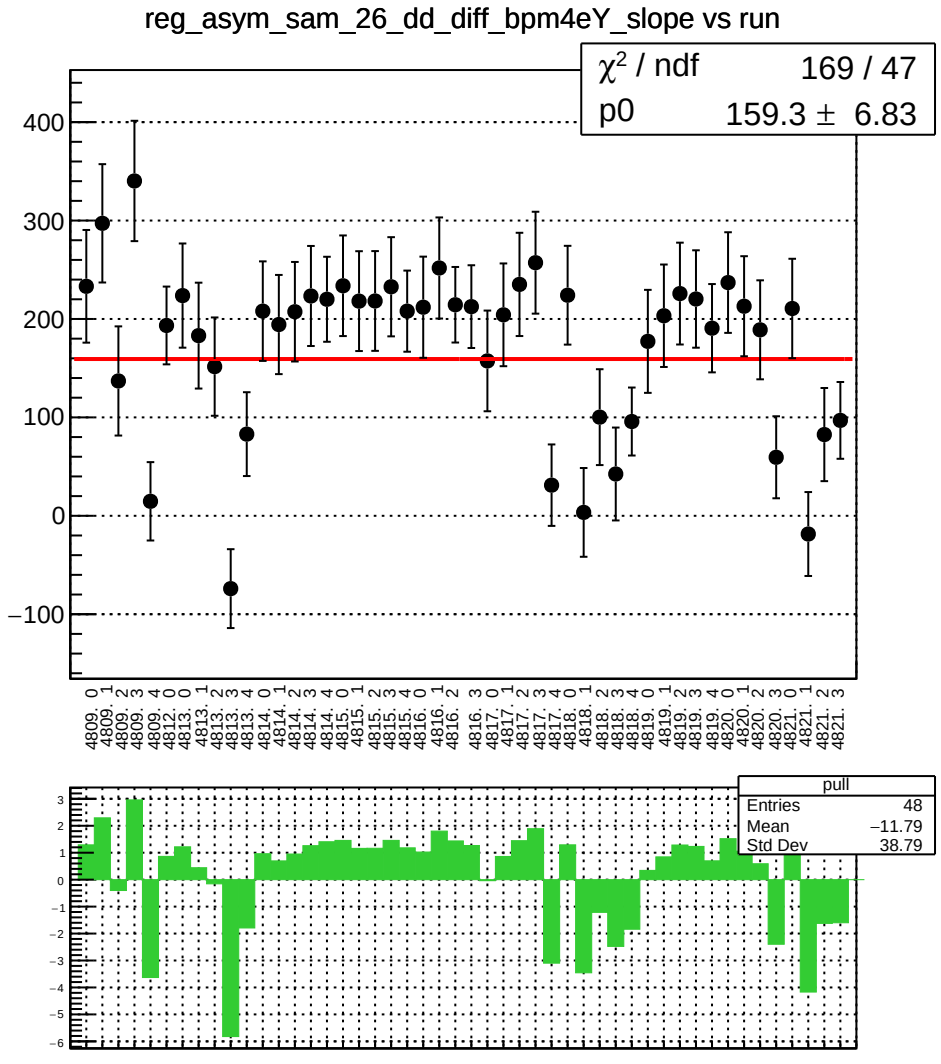

reg_asym_sam_26_avg_diff_bpm11X_slope vs run
χ² / ndf 36.69 / 47
p0 −27.11 ± 0.7471
pull
Entries 48
Mean −2829
Std Dev 2845
pull1D
Entries 48
Mean −0.001364
Std Dev 0.8743

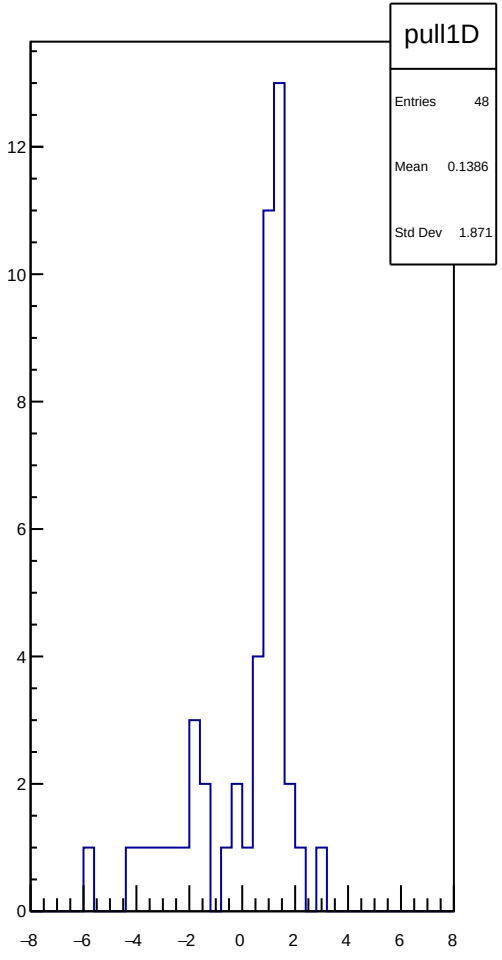

reg_asym_sam_26_dd_diff_bpm4aX_slope vs run
χ² / ndf 74.98 / 47
p0 −103.5 ± 4.774
0
−50
−100
−150
−200
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean −195.8
Std Dev 221
3
2
1
0
−1
−2
pull1D
Entries 48
Mean −0.01638
Std Dev 1.25
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

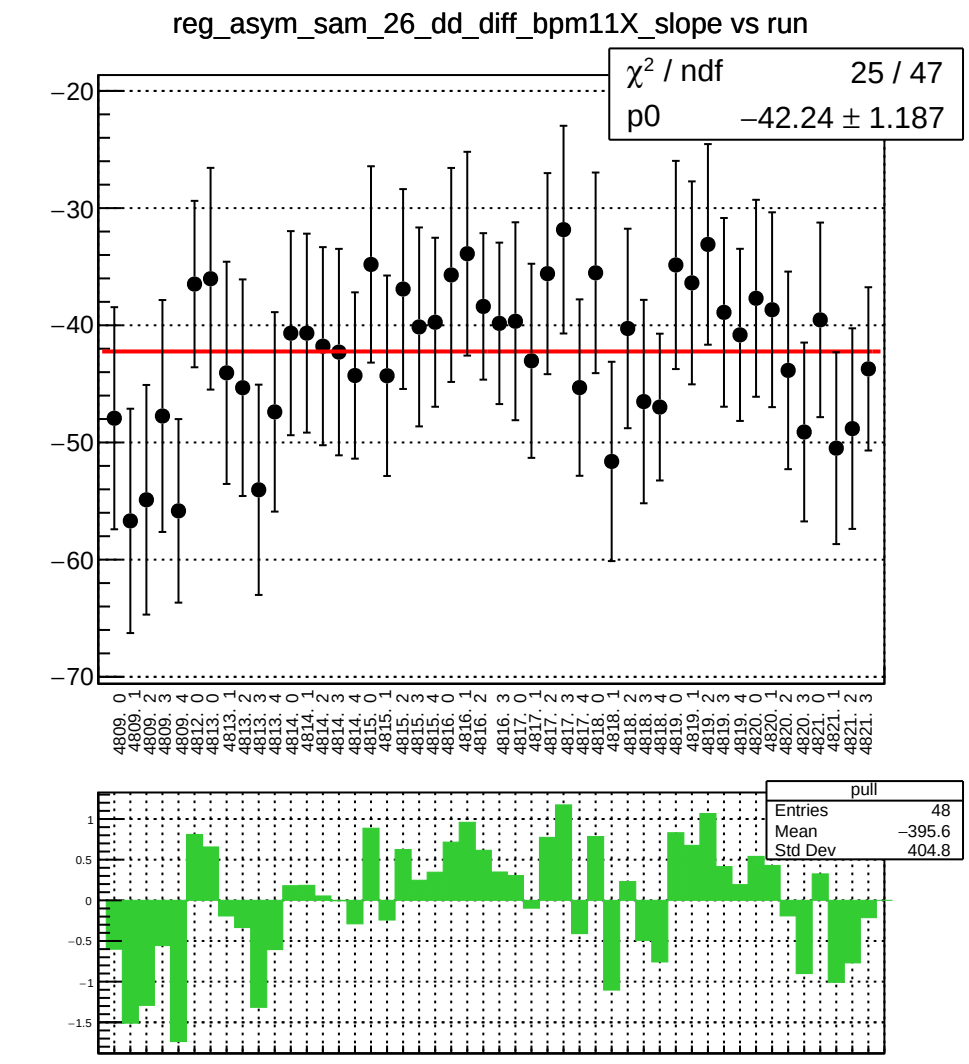

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 158.3 / 47
p0 −101.9 ± 5.776
pull
Entries 48
Mean 12.94
Std Dev 22.18
pull1D
Entries 48
Mean −0.1173
Std Dev 1.812

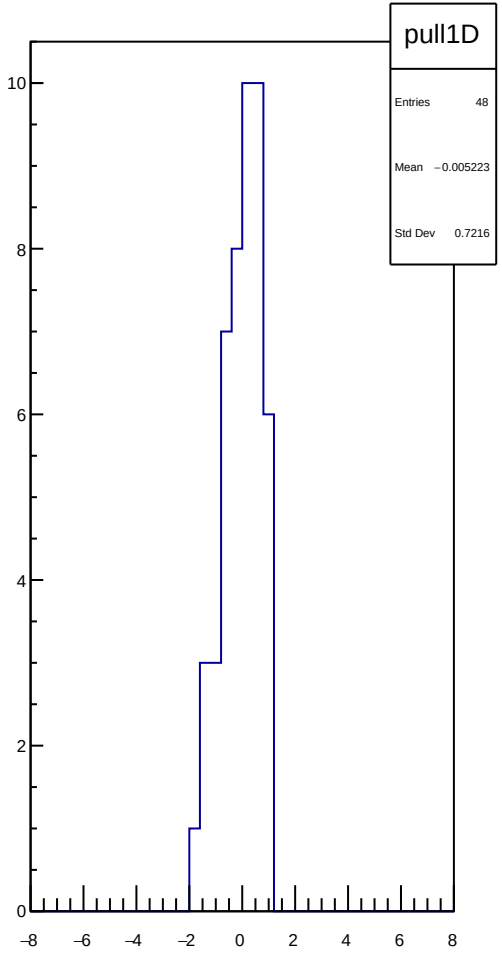

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 104.5 / 47
p0 −374.3 ± 0.9203
pull
Entries 48
Mean −193.2
Std Dev 210.9

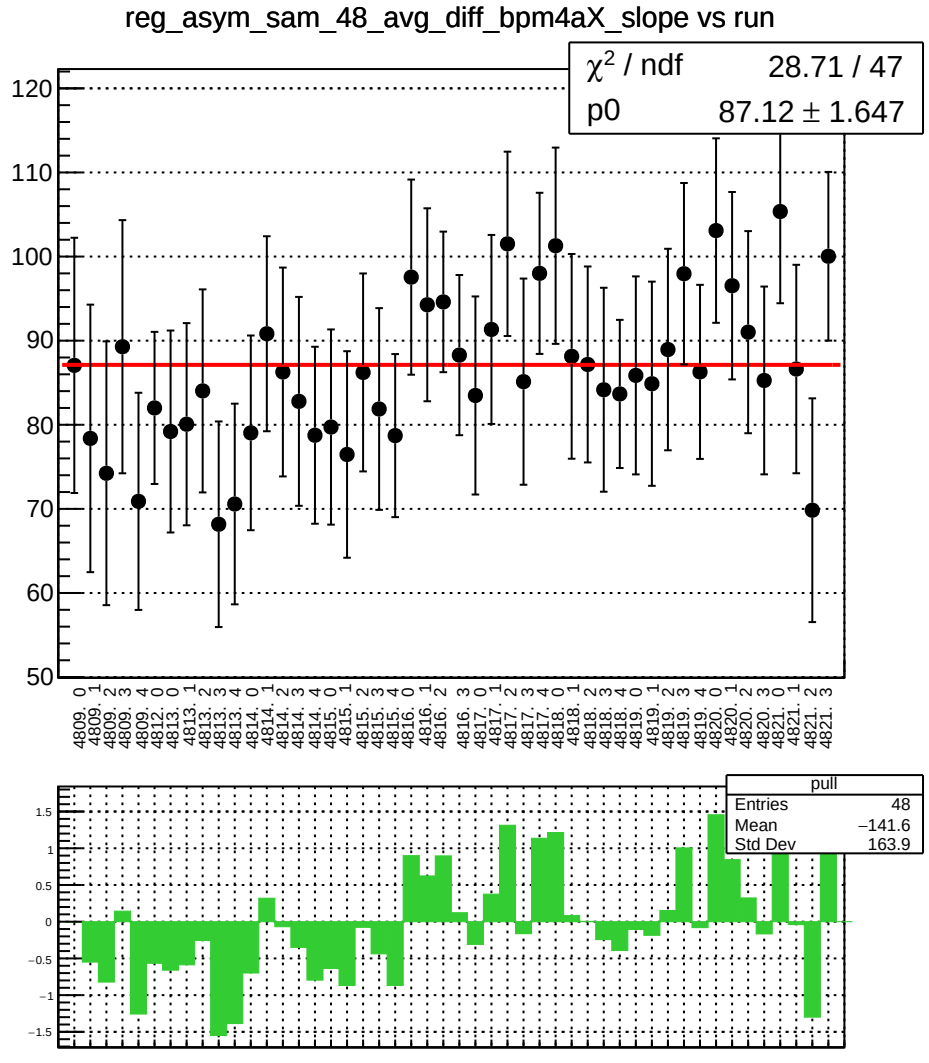

pull1D
Entries 48
Mean −0.04099
Std Dev 1.475

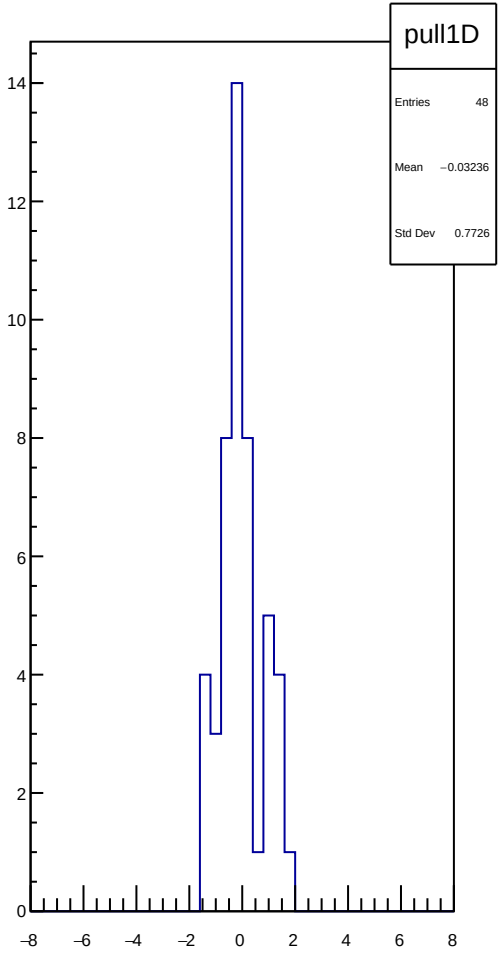

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 169 / 47
p0 159.3 ± 6.83
400
300
200
100
0
−100
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean −11.79
Std Dev 38.79
3
2
1
0
−1
−2
−3
−4
−5
−6

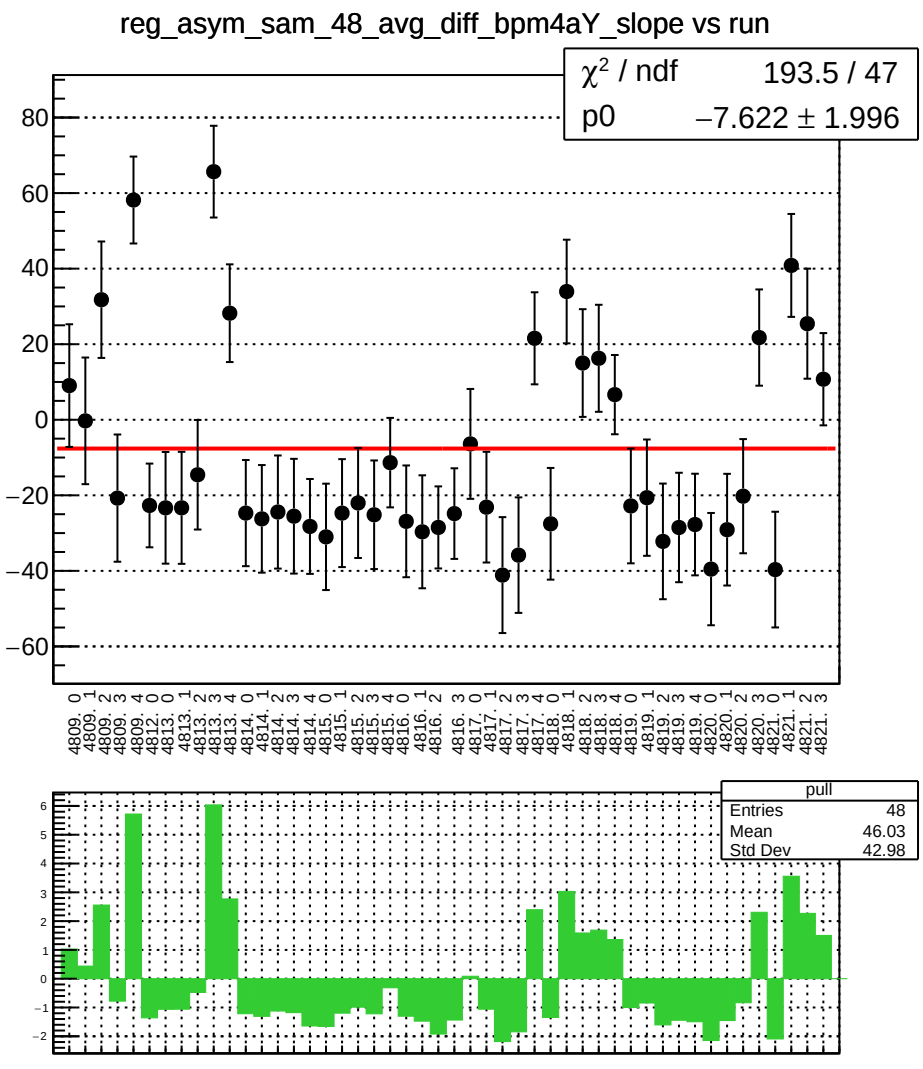

pull1D
Entries 48
Mean 0.1386
Std Dev 1.871
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

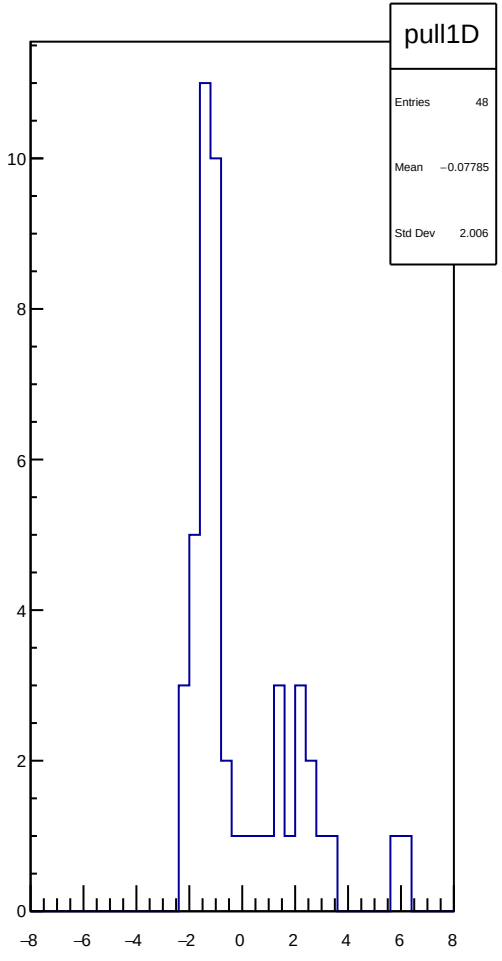

reg_asym_sam_26_dd_diff_bpm11X_slope vs run
χ² / ndf 25 / 47
p0 −42.24 ± 1.187
pull
Entries 48
Mean −395.6
Std Dev 404.8

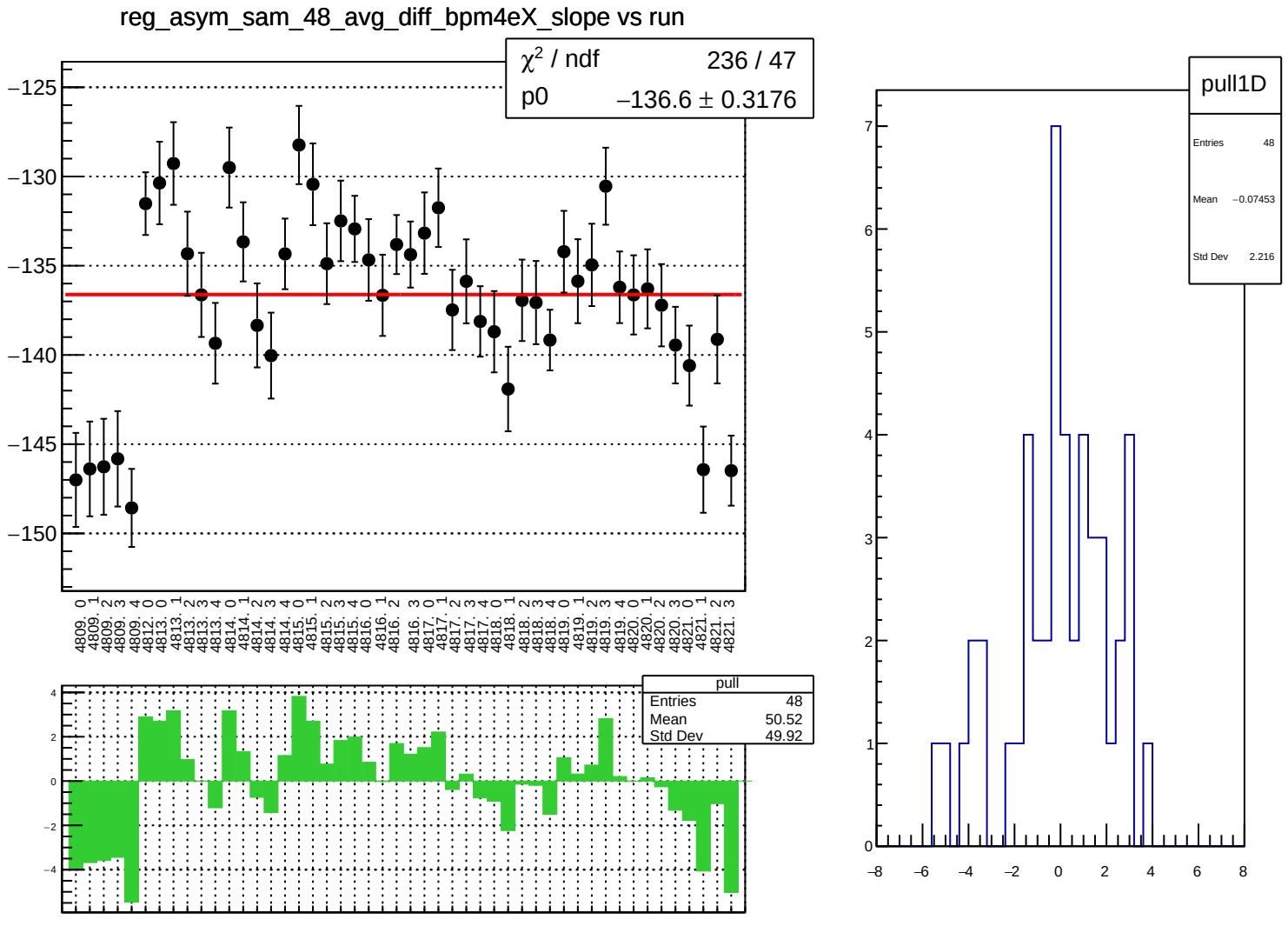

pull1D
Entries 48
Mean −0.005223
Std Dev 0.7216

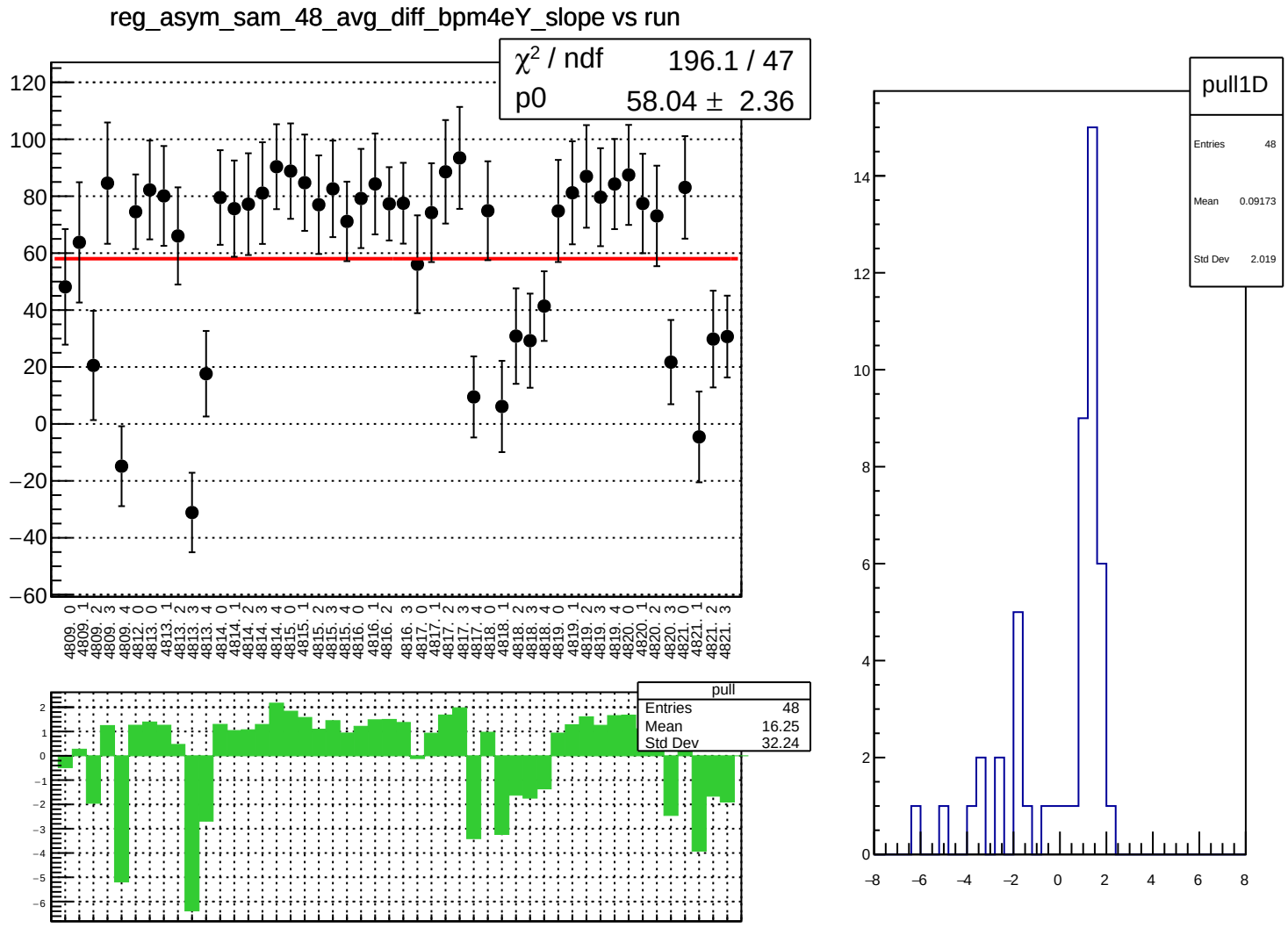

reg_asym_sam_48_avg_diff_bpm4aX_slope vs run
χ² / ndf 28.71 / 47
p0 87.12 ± 1.647
pull
Entries 48
Mean −141.6
Std Dev 163.9

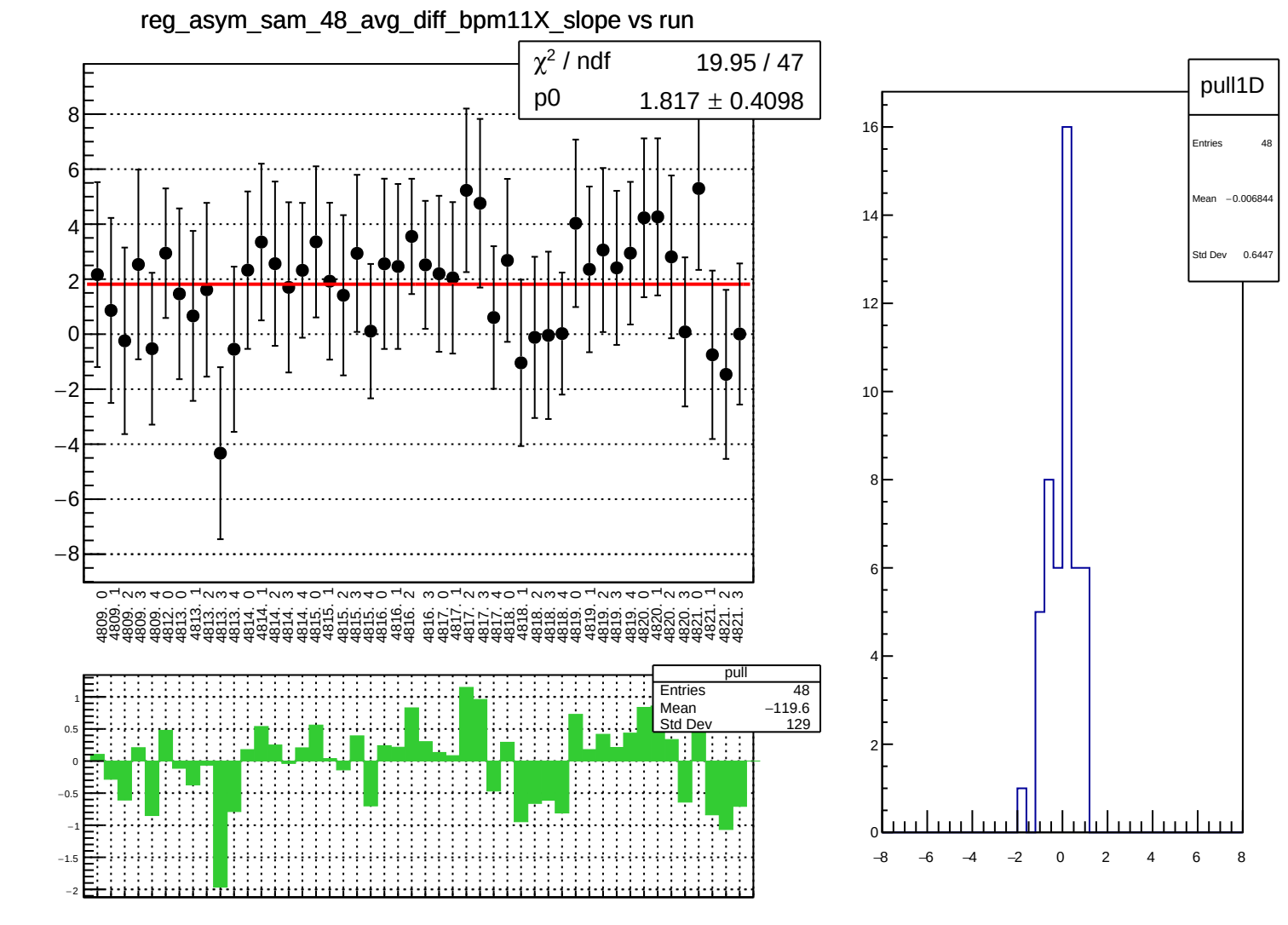

pull1D
Entries 48
Mean −0.03236
Std Dev 0.7726

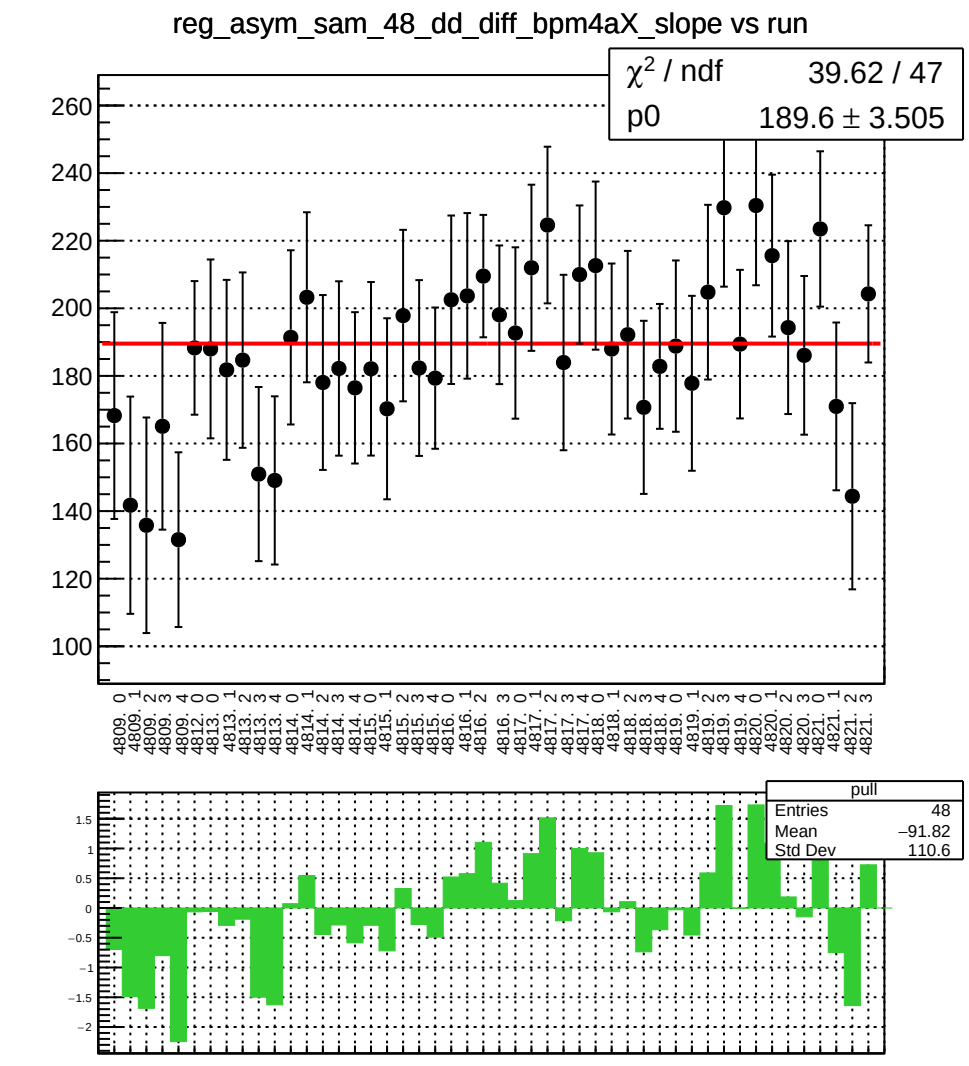

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 193.5 / 47
p0 −7.622 ± 1.996
pull
Entries 48
Mean 46.03
Std Dev 42.98

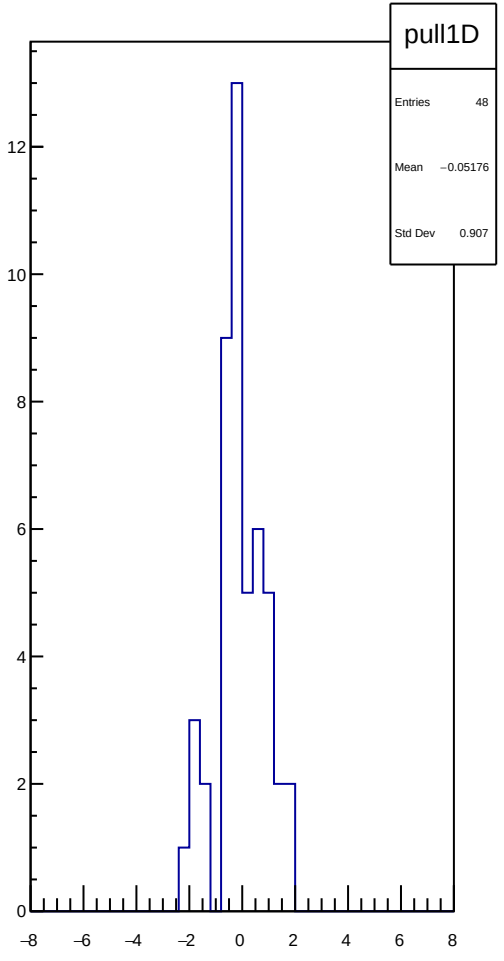

pull1D
Entries 48
Mean −0.07785
Std Dev 2.006

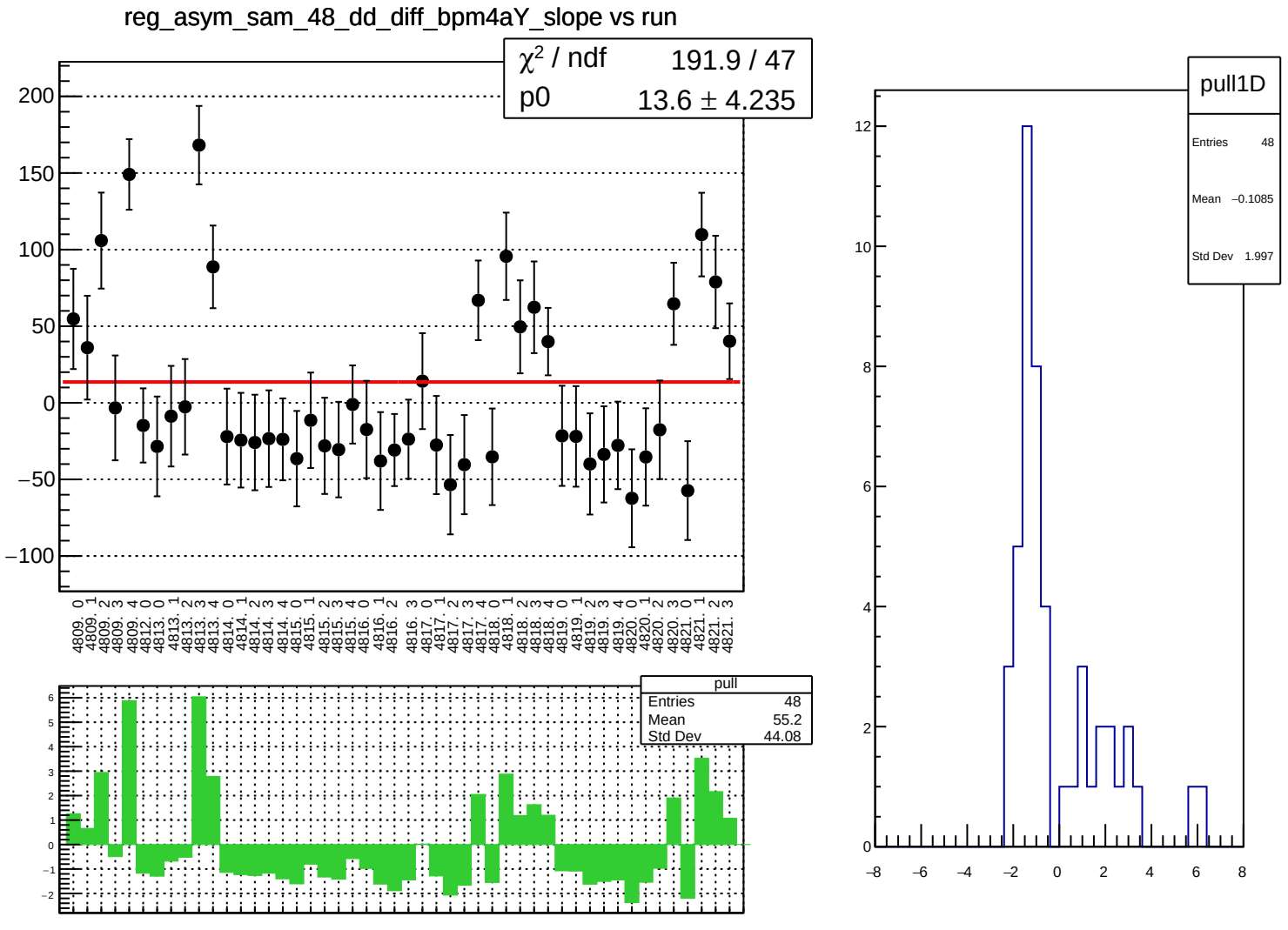

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 236 / 47
p0 −136.6 ± 0.3176
−125
−130
−135
−140
−145
−150
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 50.52
Std Dev 49.92
4
2
0
−2
−4
pull1D
Entries 48
Mean −0.07453
Std Dev 2.216
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

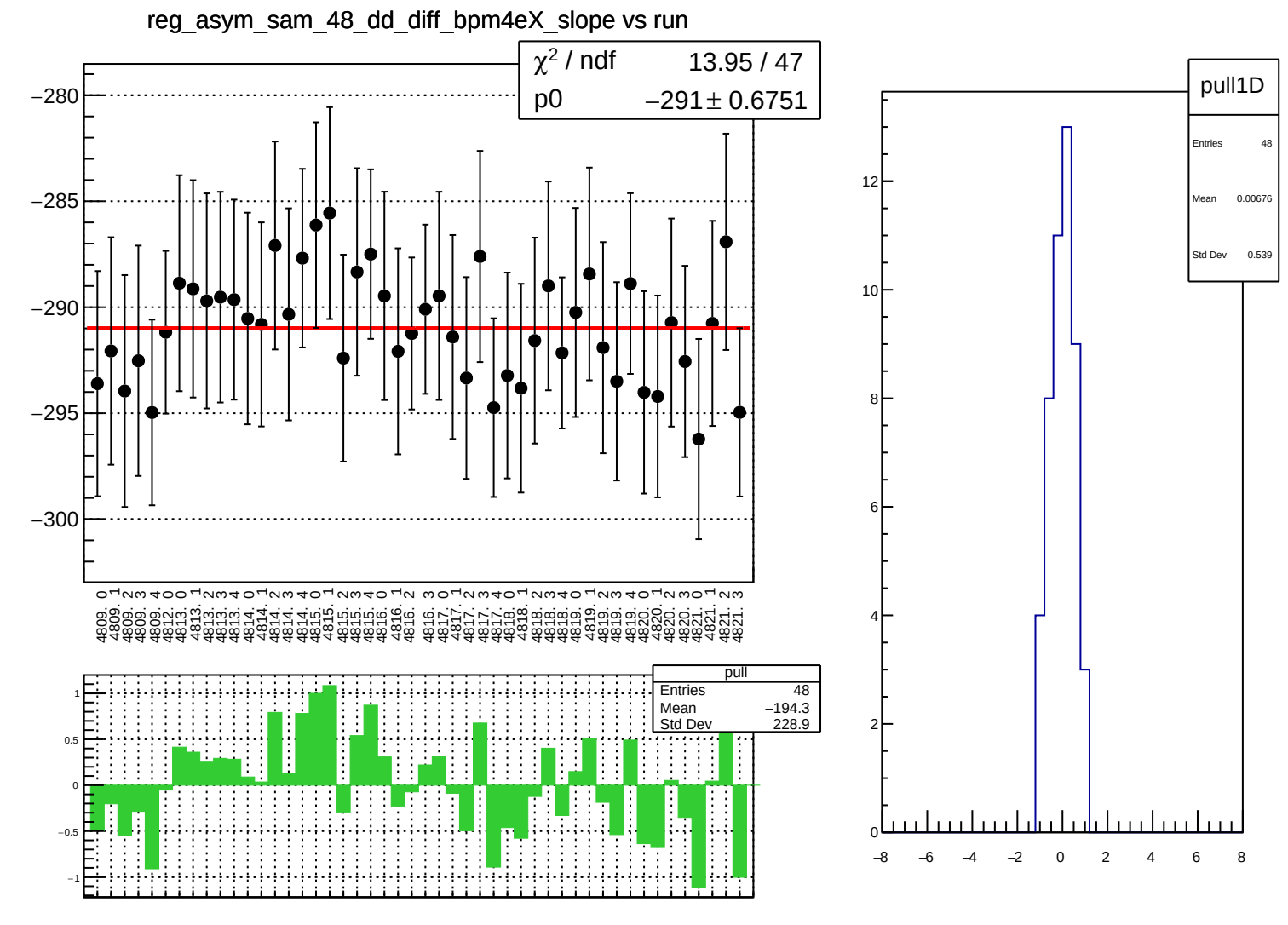

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 196.1 / 47
p0 58.04 ± 2.36
pull
Entries 48
Mean 16.25
Std Dev 32.24
pull1D
Entries 48
Mean 0.09173
Std Dev 2.019

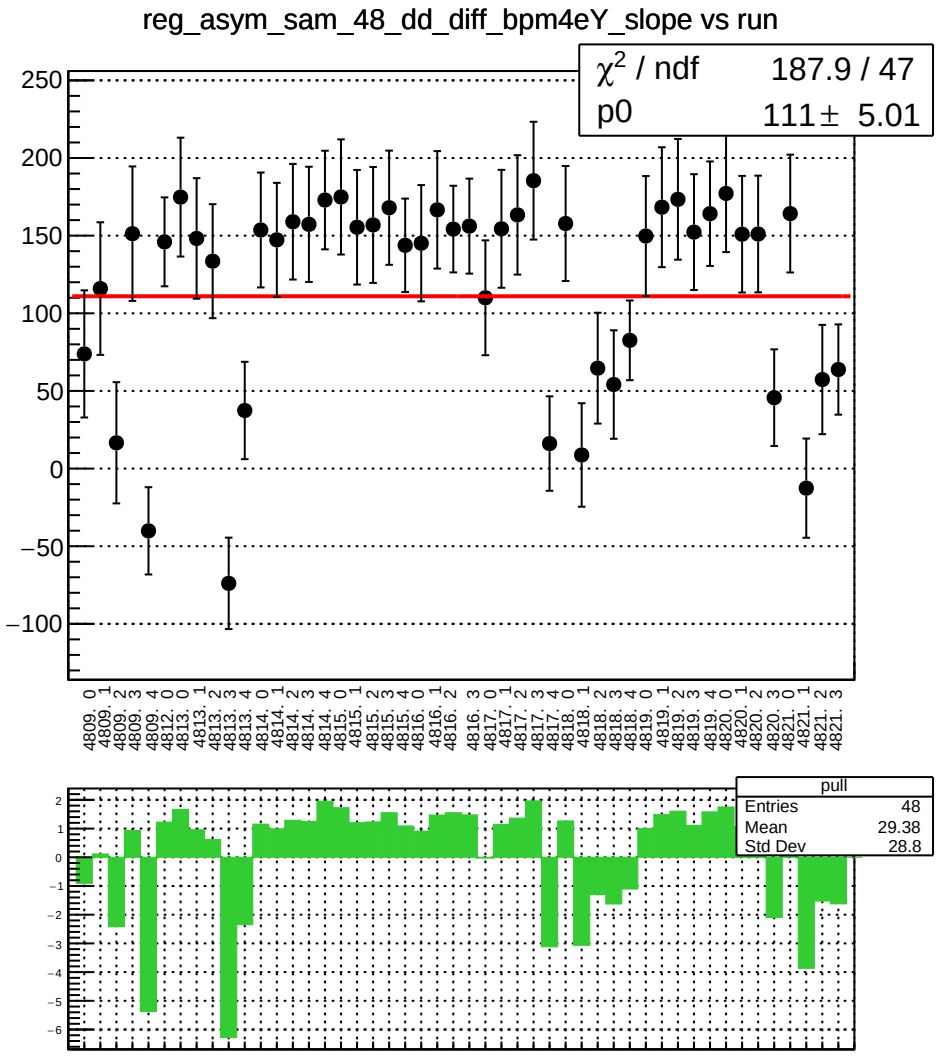

reg_asym_sam_48_avg_diff_bpm11X_slope vs run
χ² / ndf 19.95 / 47
p0 1.817 ± 0.4098
pull
Entries 48
Mean −119.6
Std Dev 129
pull1D
Entries 48
Mean −0.006844
Std Dev 0.6447

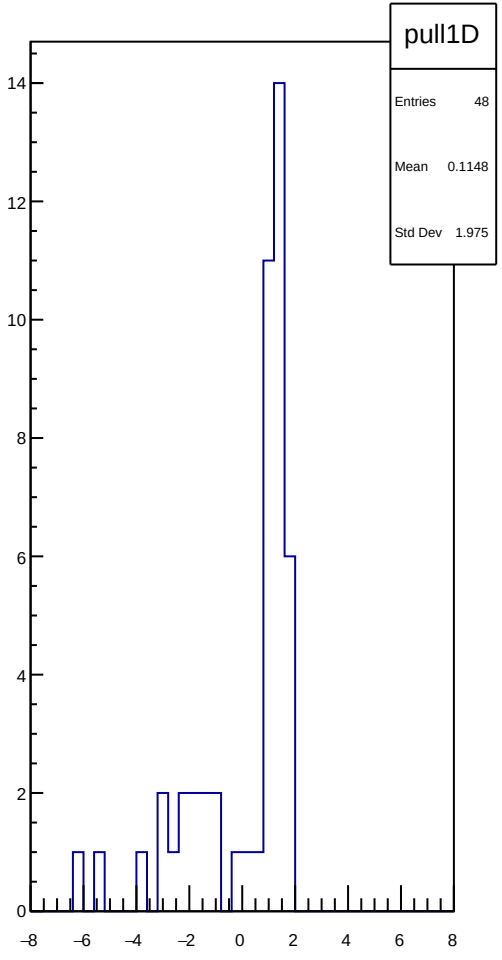

reg_asym_sam_48_dd_diff_bpm4aX_slope vs run
χ² / ndf 39.62 / 47
p0 189.6 ± 3.505
pull
Entries 48
Mean −91.82
Std Dev 110.6

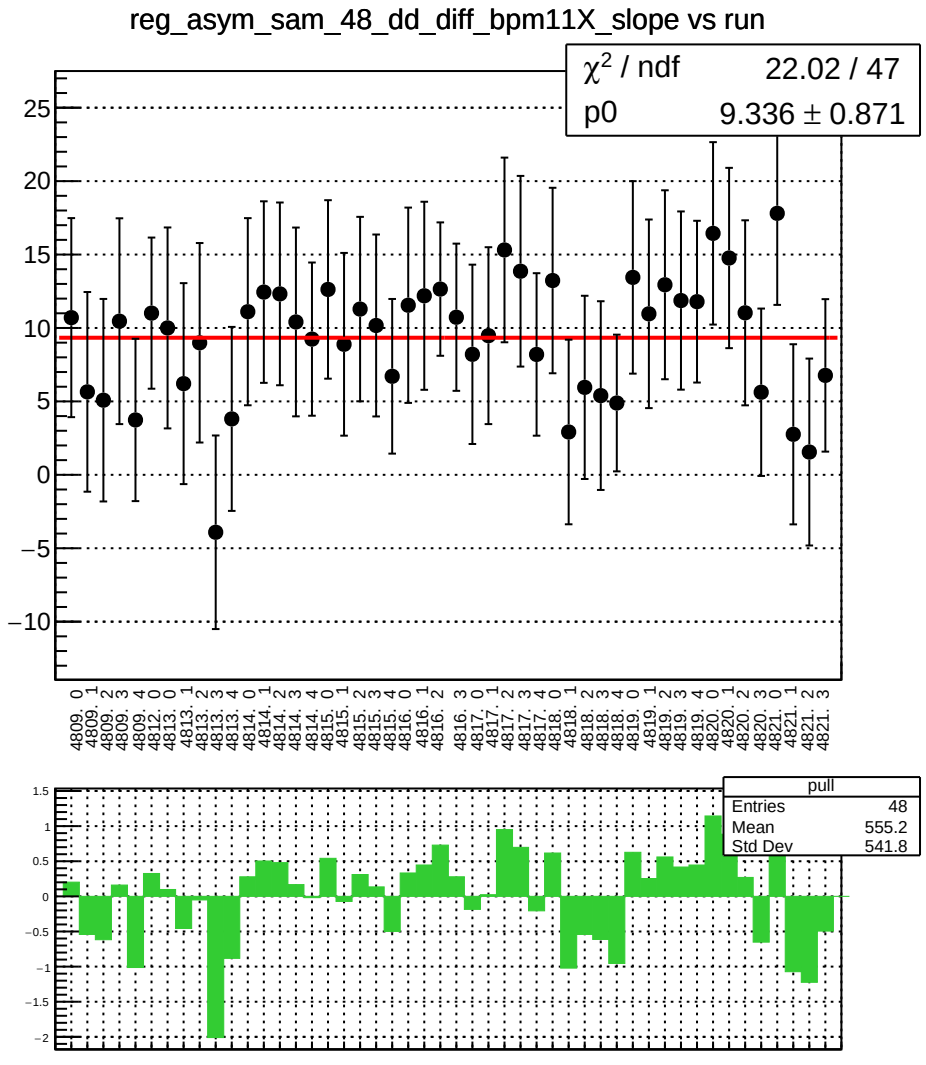

pull1D
Entries 48
Mean −0.05176
Std Dev 0.907

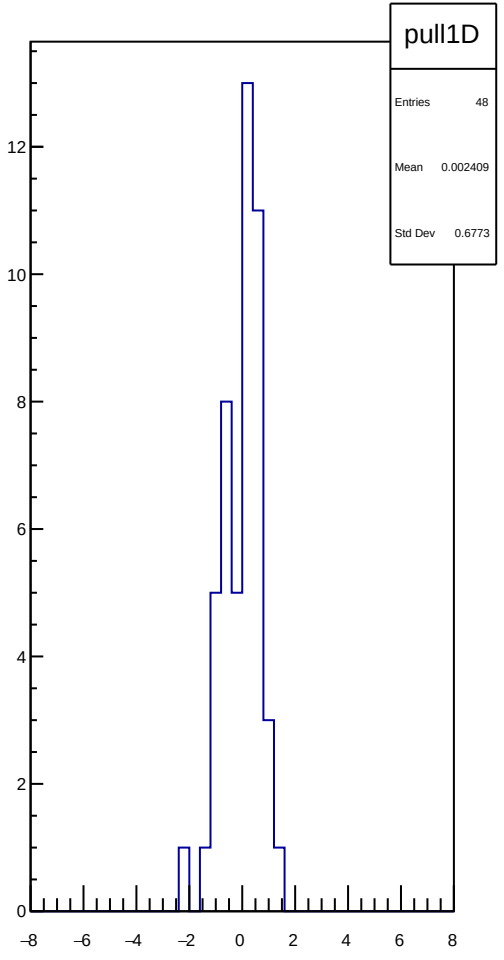

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 191.9 / 47
p0 13.6 ± 4.235
pull
Entries 48
Mean 55.2
Std Dev 44.08
pull1D
Entries 48
Mean −0.1085
Std Dev 1.997

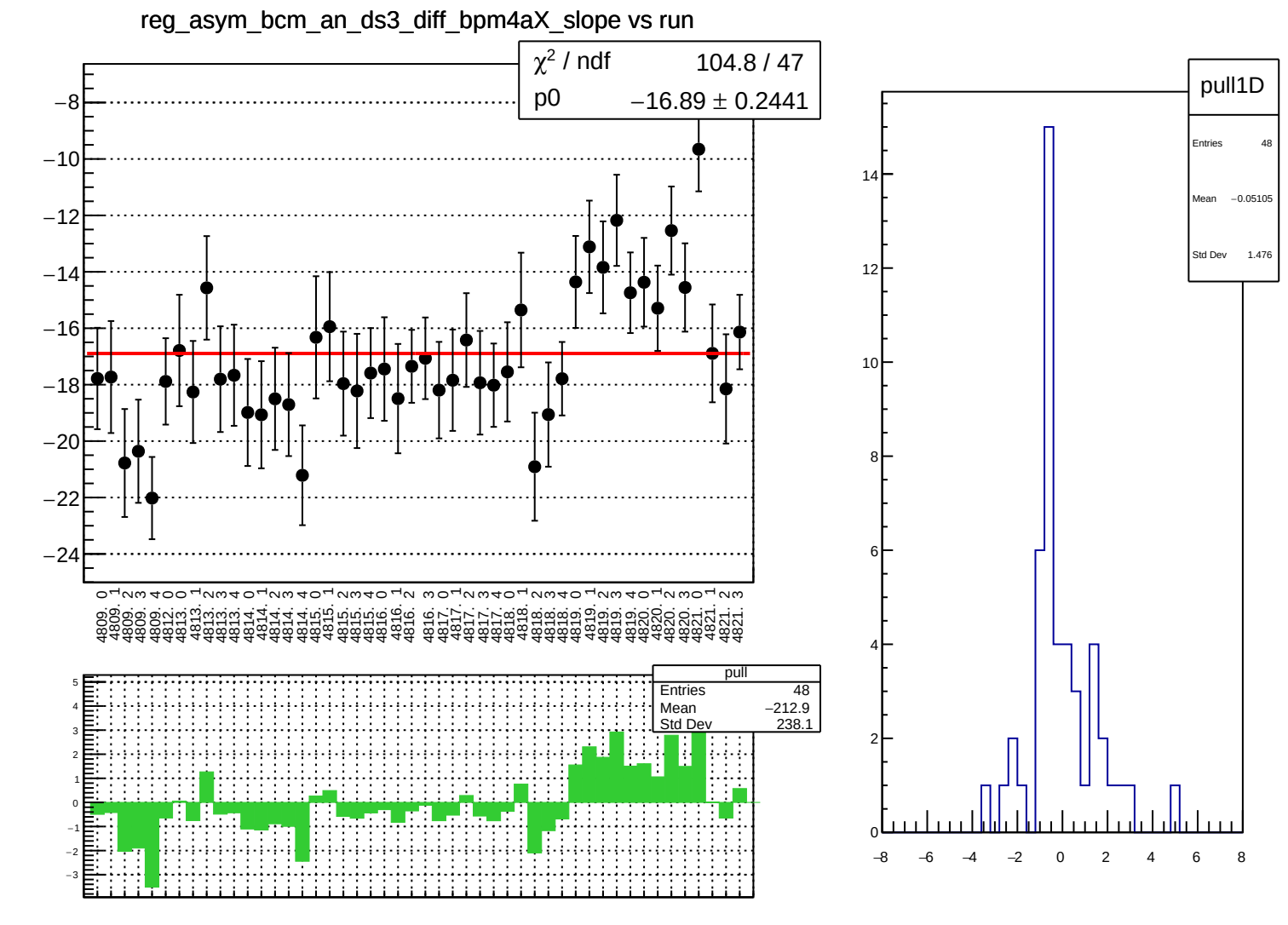

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 13.95 / 47
p0 −291 ± 0.6751
−280
−285
−290
−295
−300
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean −194.3
Std Dev 228.9
1
0.5
0
−0.5
−1
pull1D
Entries 48
Mean 0.00676
Std Dev 0.539
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

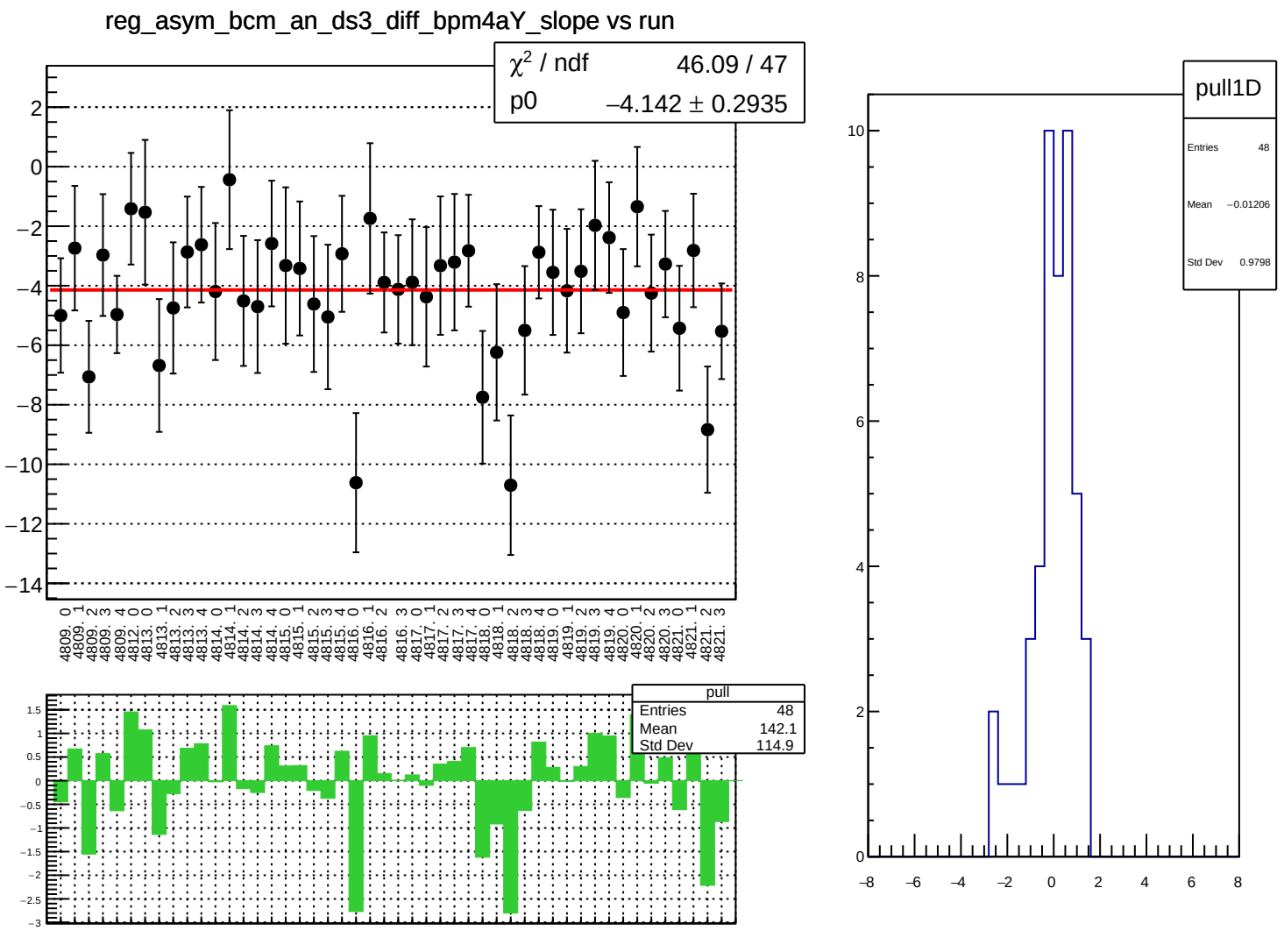

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 187.9 / 47
p0 111 ± 5.01
pull
Entries 48
Mean 29.38
Std Dev 28.8

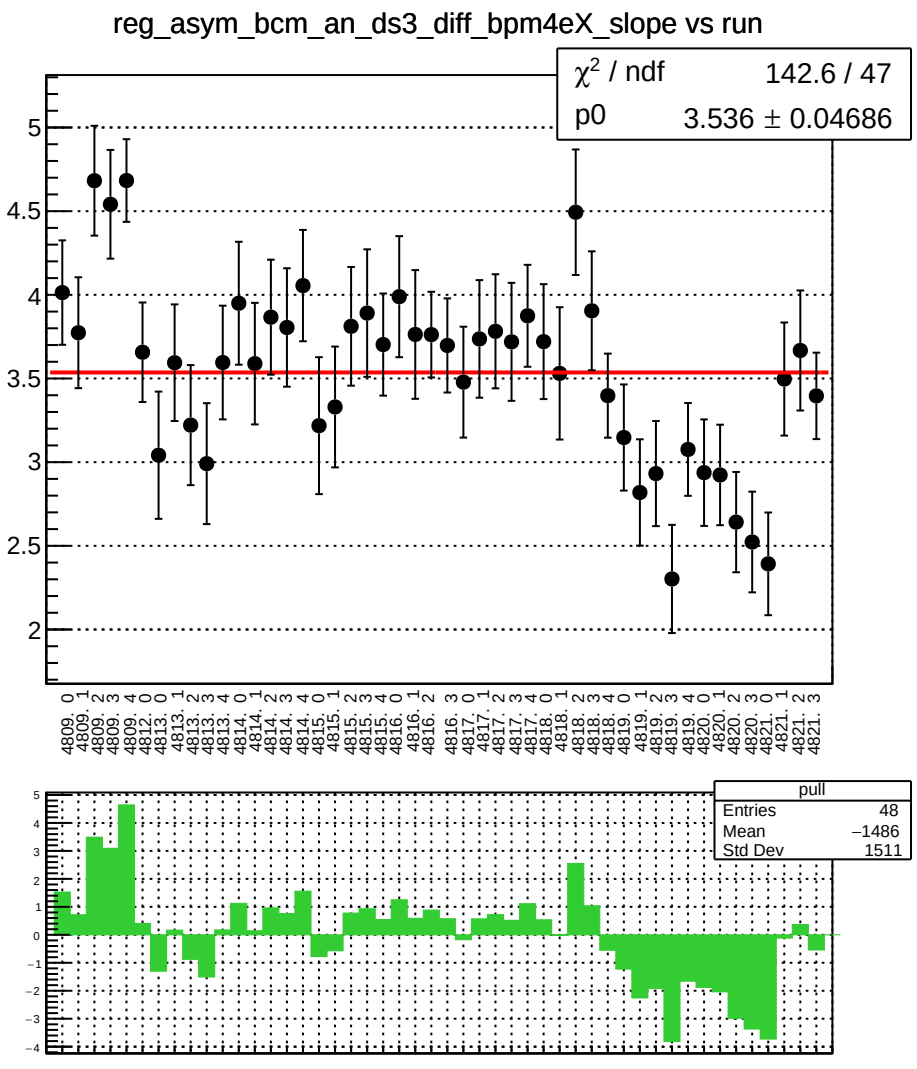

pull1D
Entries 48
Mean 0.1148
Std Dev 1.975

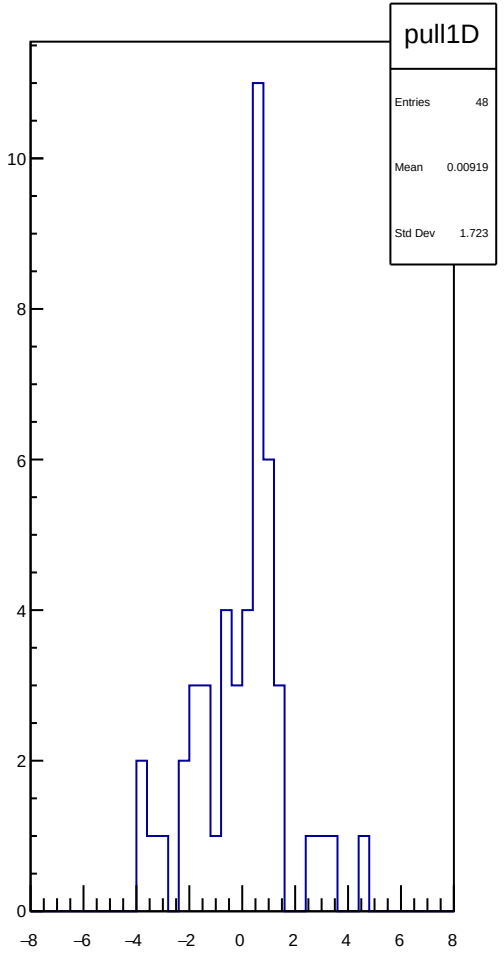

reg_asym_sam_48_dd_diff_bpm11X_slope vs run
χ² / ndf 22.02 / 47
p0 9.336 ± 0.871
pull
Entries 48
Mean 555.2
Std Dev 541.8

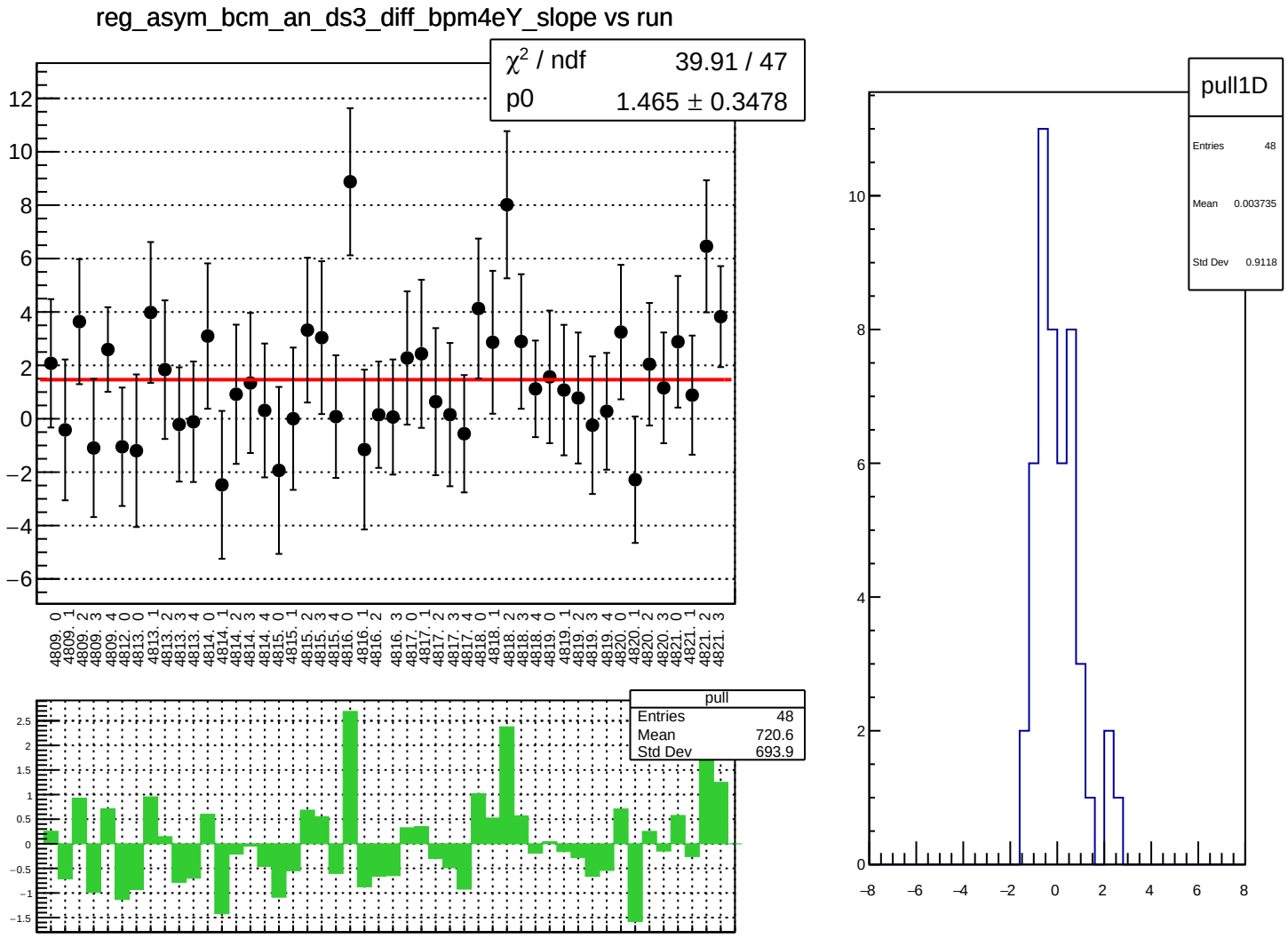

pull1D
Entries 48
Mean 0.002409
Std Dev 0.6773

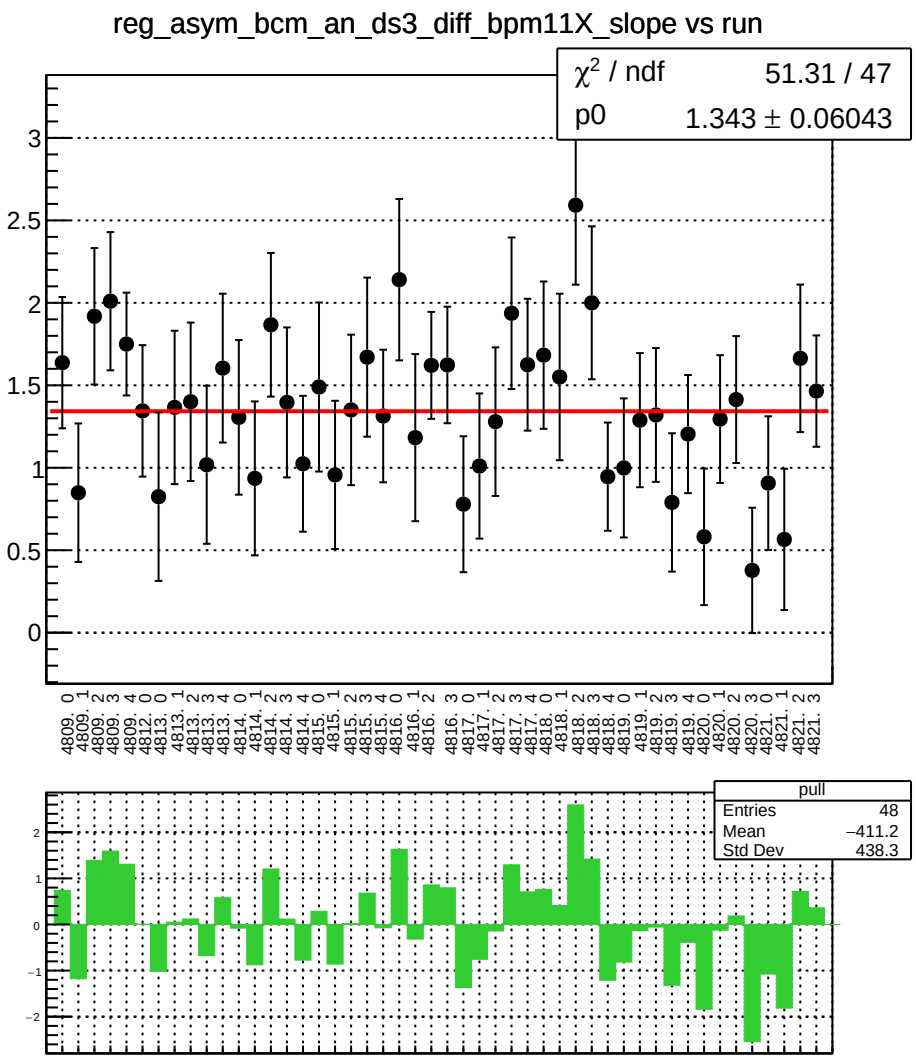

reg_asym_bcm_an_ds3_diff_bpm4aX_slope vs run
χ² / ndf 104.8 / 47
p0 −16.89 ± 0.2441
pull
Entries 48
Mean −212.9
Std Dev 238.1
pull1D
Entries 48
Mean −0.05105
Std Dev 1.476

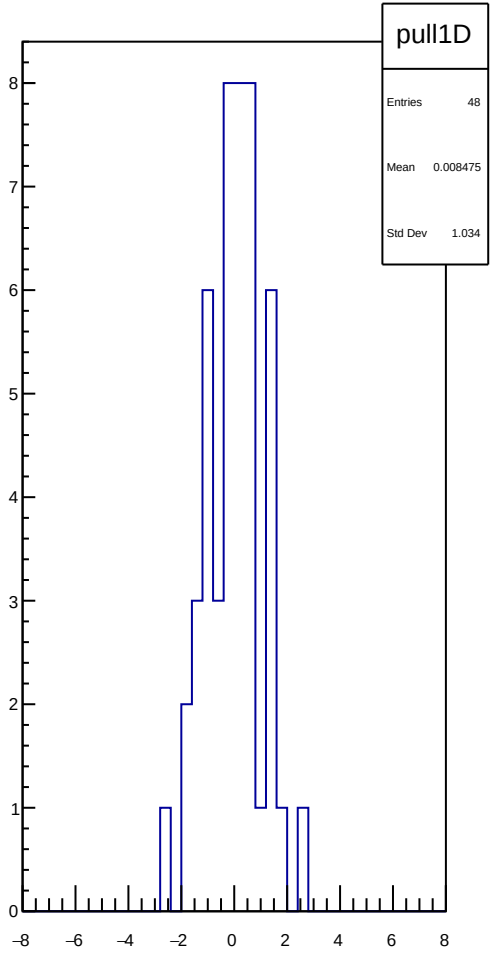

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 46.09 / 47
p0 −4.142 ± 0.2935
pull
Entries 48
Mean 142.1
Std Dev 114.9
pull1D
Entries 48
Mean −0.01206
Std Dev 0.9798

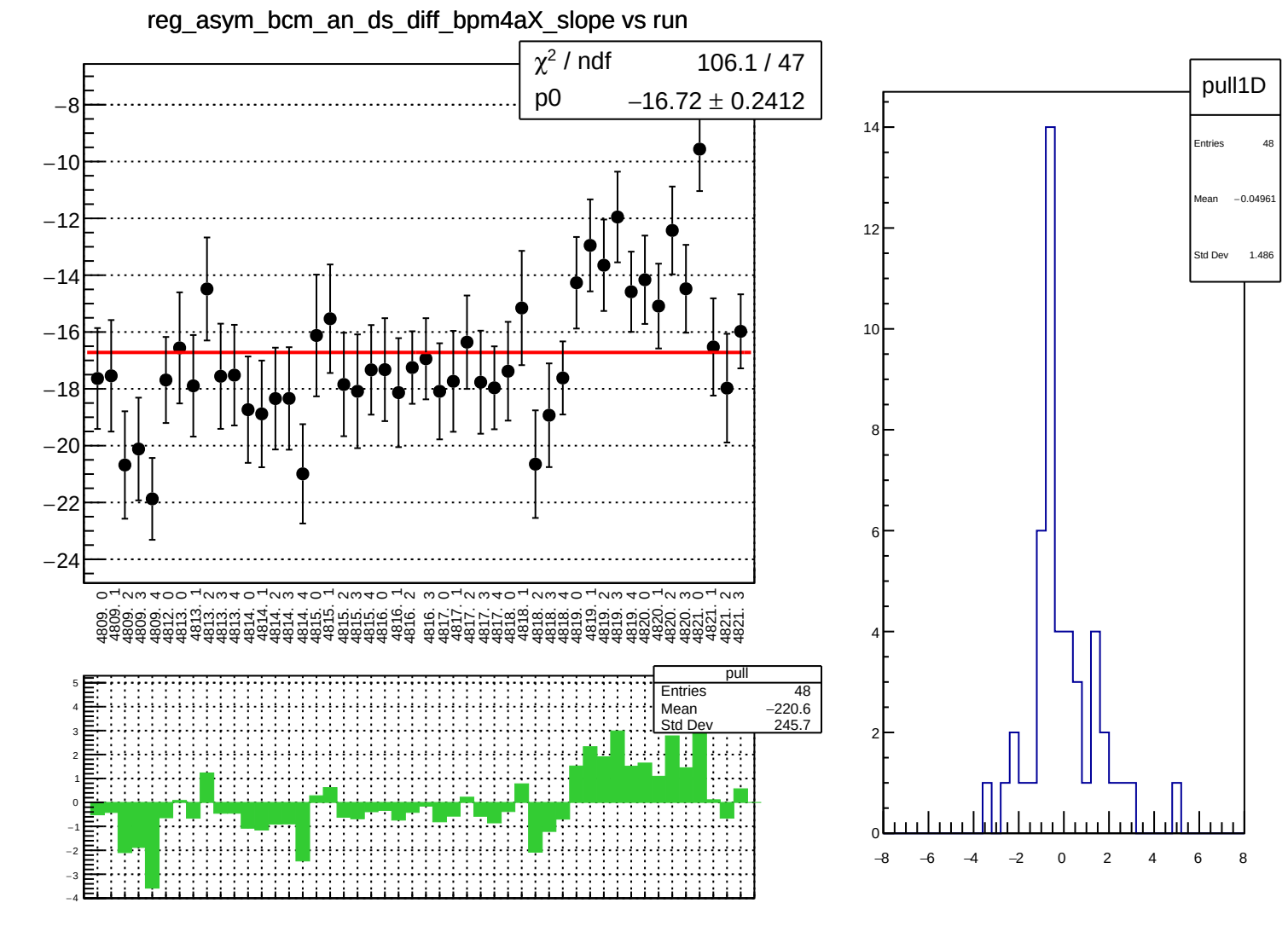

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 142.6 / 47
p0 3.536 ± 0.04686
pull
Entries 48
Mean −1486
Std Dev 1511

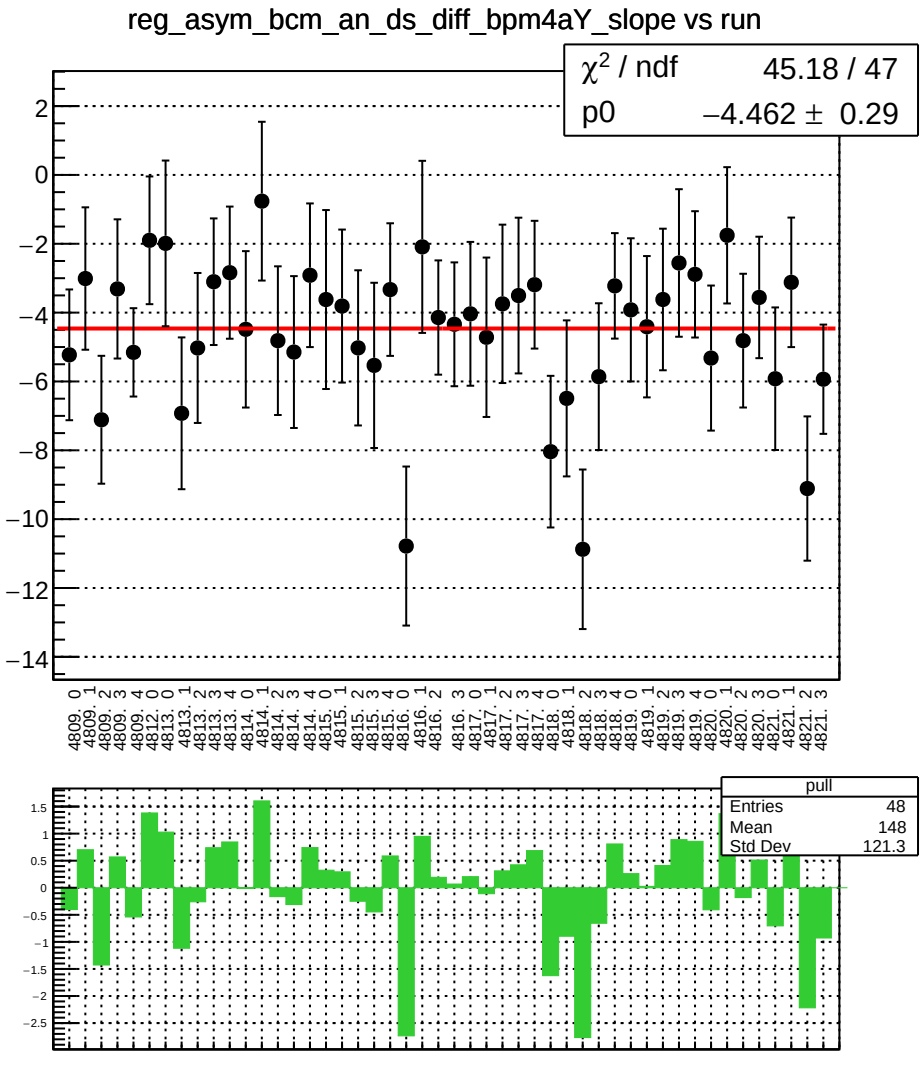

pull1D
Entries 48
Mean 0.00919
Std Dev 1.723

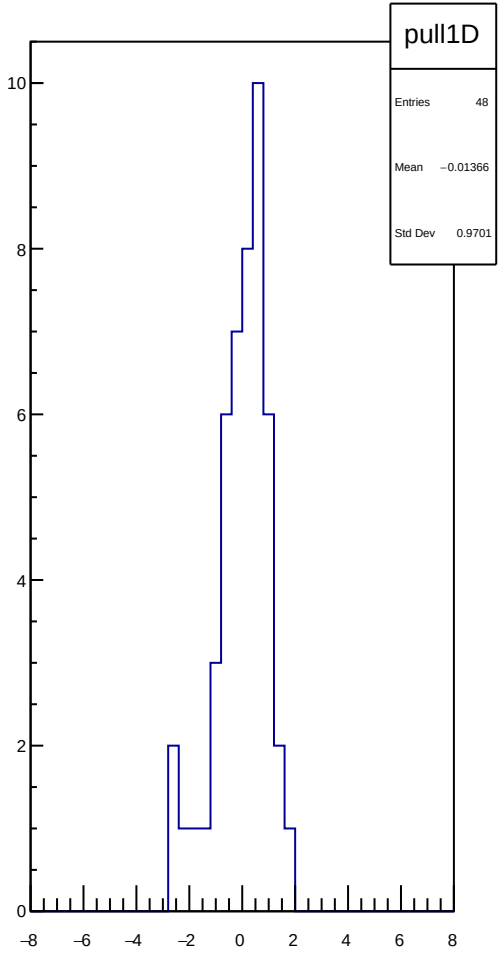

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 39.91 / 47
p0 1.465 ± 0.3478
pull
Entries 48
Mean 720.6
Std Dev 693.9
pull1D
Entries 48
Mean 0.003735
Std Dev 0.9118

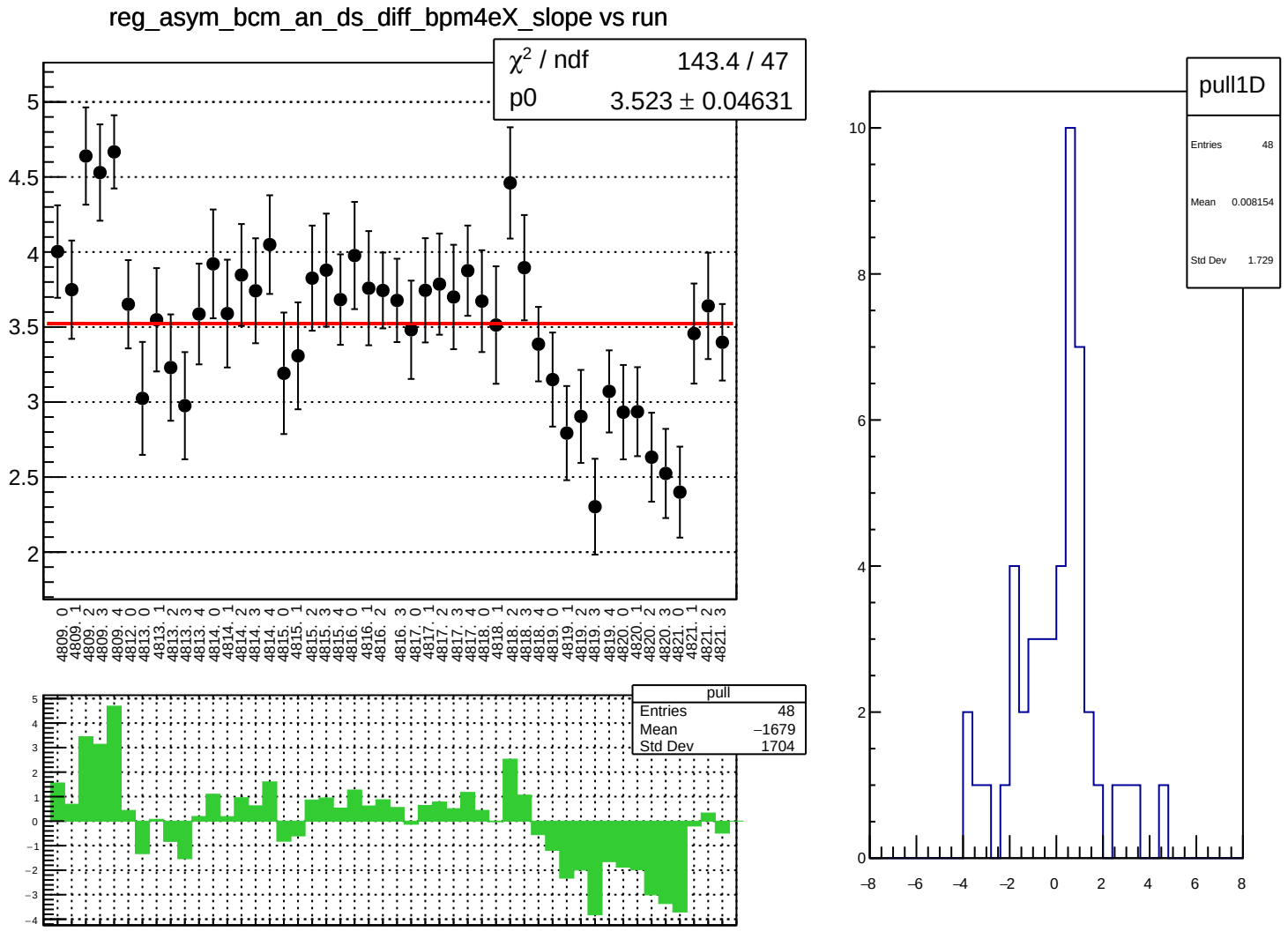

reg_asym_bcm_an_ds3_diff_bpm11X_slope vs run
χ² / ndf 51.31 / 47
p0 1.343 ± 0.06043
pull
Entries 48
Mean −411.2
Std Dev 438.3

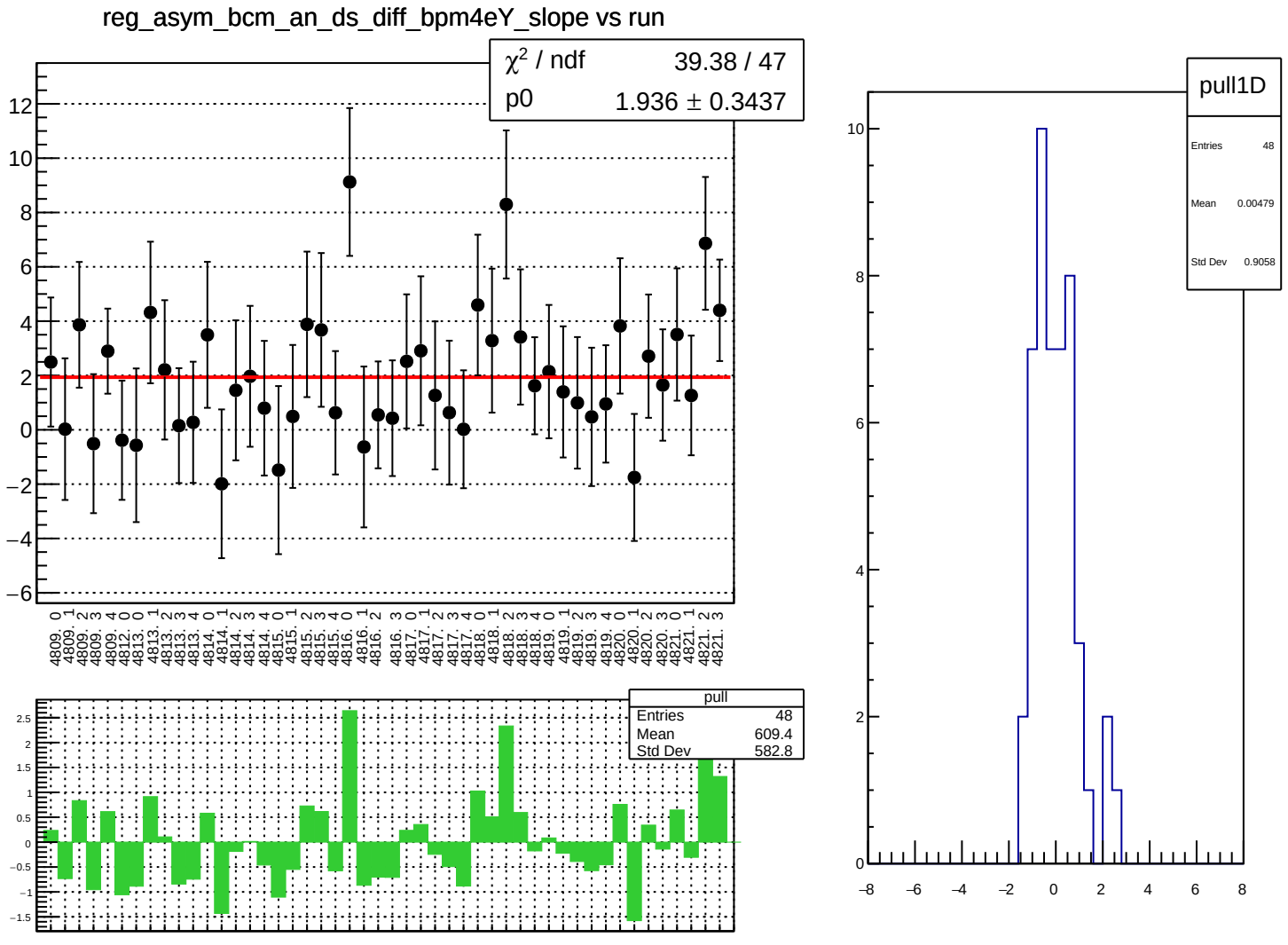

pull1D
Entries 48
Mean 0.008475
Std Dev 1.034

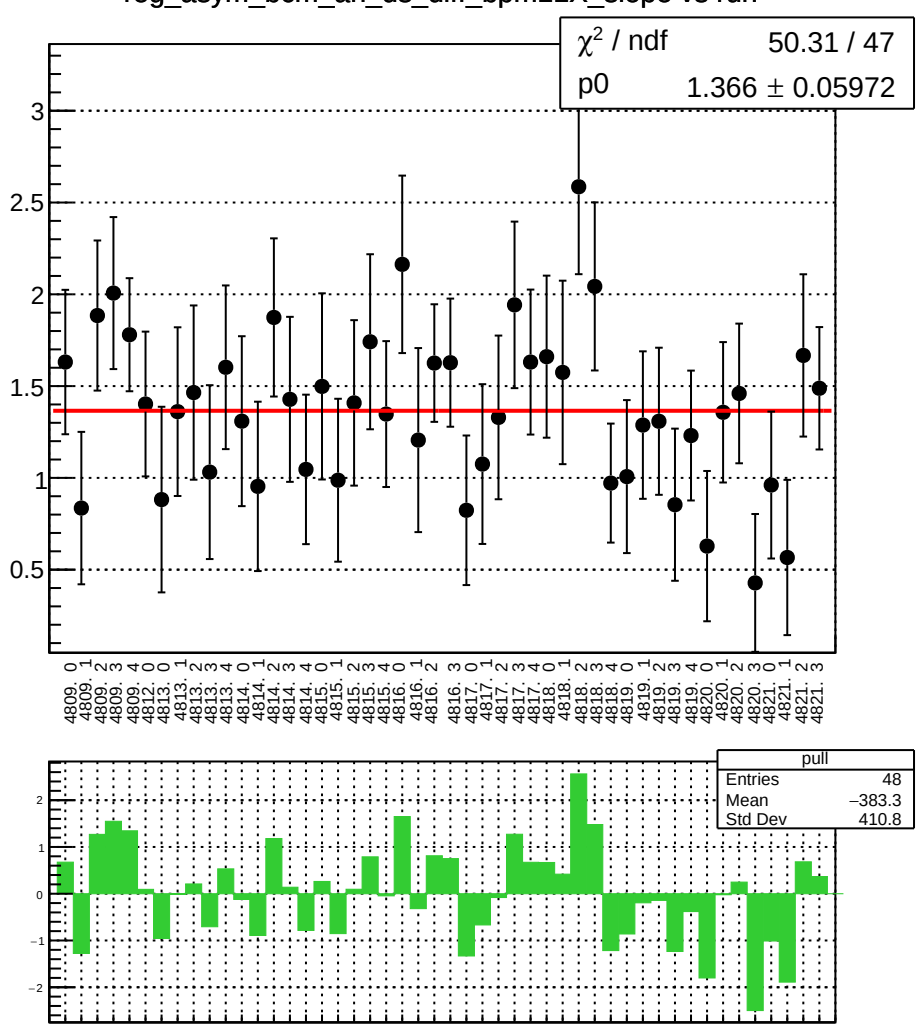

reg_asym_bcm_an_ds_diff_bpm4aX_slope vs run
χ² / ndf 106.1 / 47
p0 −16.72 ± 0.2412
pull
Entries 48
Mean −220.6
Std Dev 245.7
pull1D
Entries 48
Mean −0.04961
Std Dev 1.486

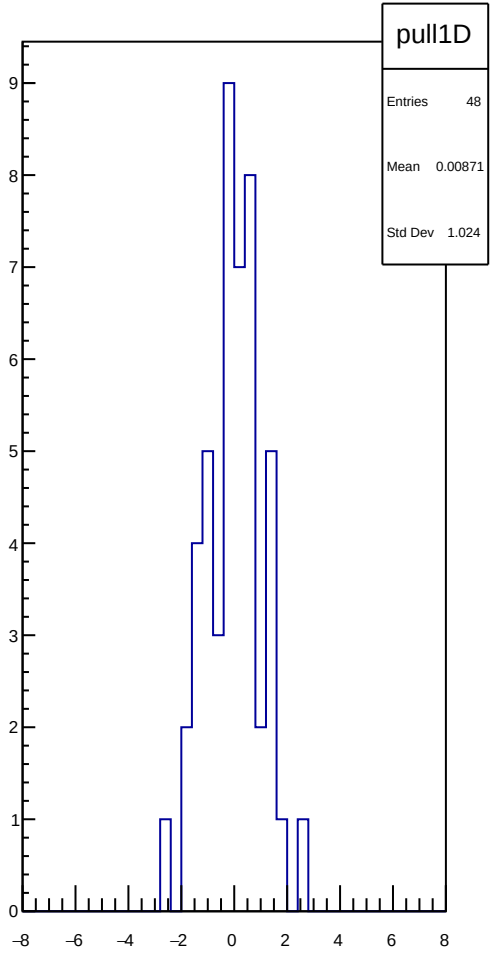

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 45.18 / 47
p0 −4.462 ± 0.29
pull
Entries 48
Mean 148
Std Dev 121.3

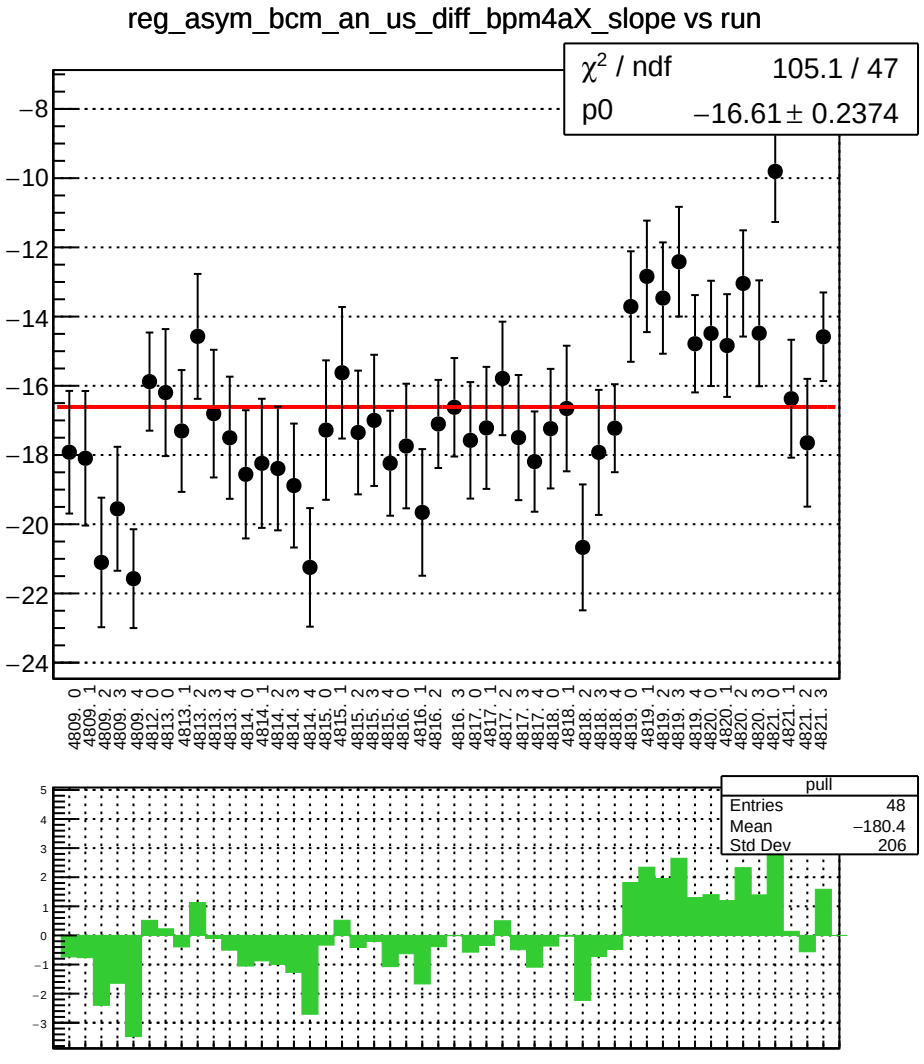

pull1D
Entries 48
Mean −0.01366
Std Dev 0.9701

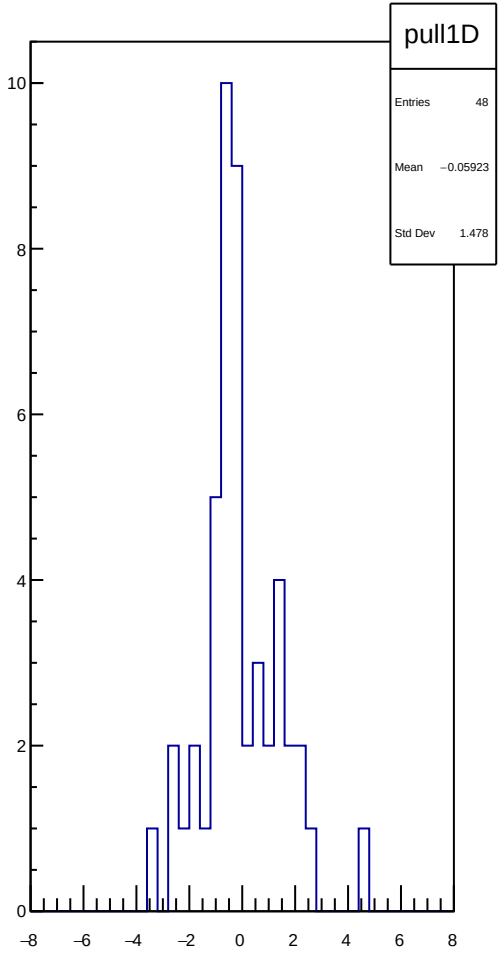

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 143.4 / 47
p0 3.523 ± 0.04631
pull
Entries 48
Mean −1679
Std Dev 1704
pull1D
Entries 48
Mean 0.008154
Std Dev 1.729

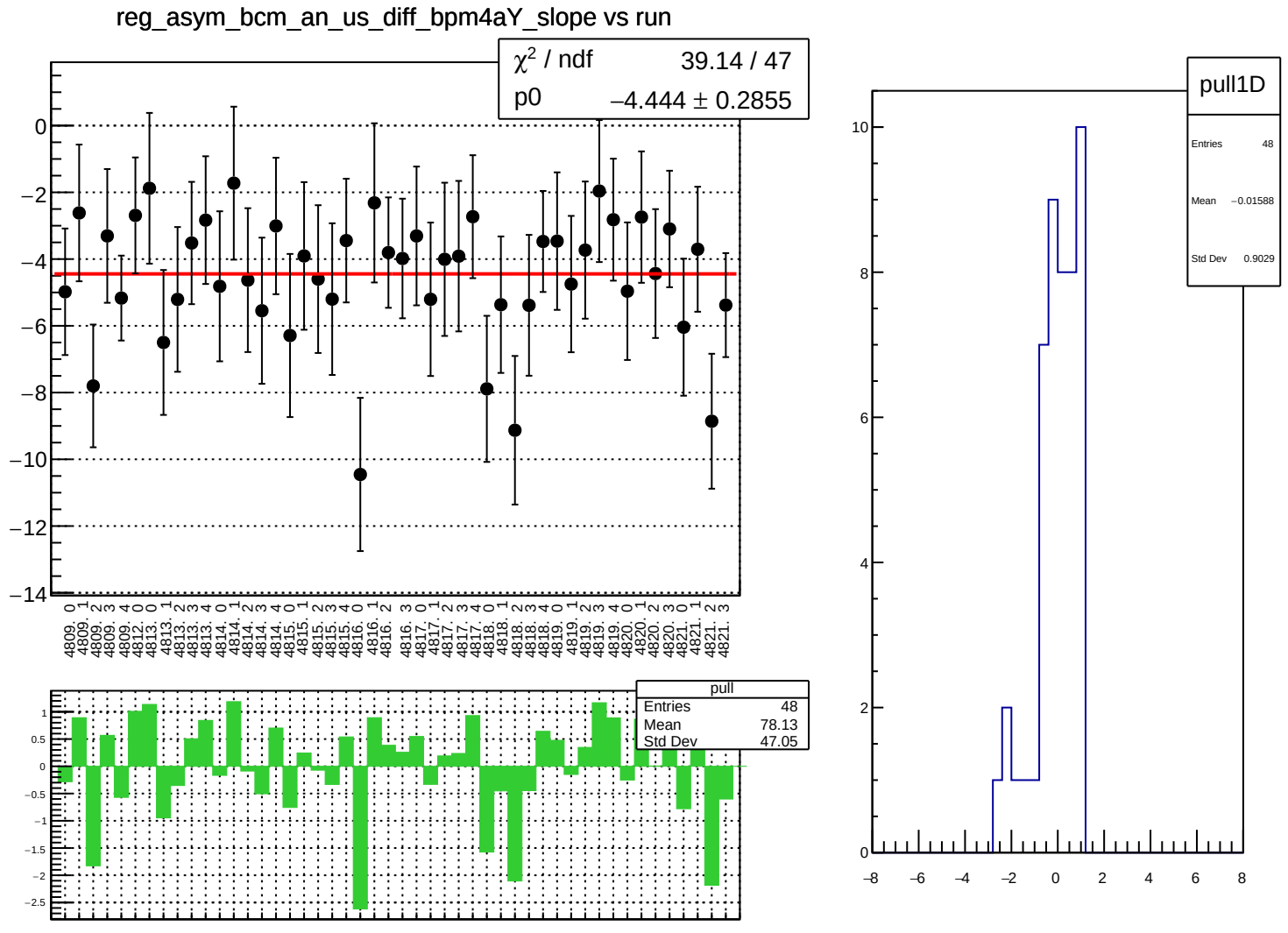

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 39.38 / 47
p0 1.936 ± 0.3437
pull
Entries 48
Mean 609.4
Std Dev 582.8
pull1D
Entries 48
Mean 0.00479
Std Dev 0.9058


reg_asym_bcm_an_ds_diff_bpm11X_slope vs run
χ² / ndf 50.31 / 47
p0 1.366 ± 0.05972
pull
Entries 48
Mean −383.3
Std Dev 410.8

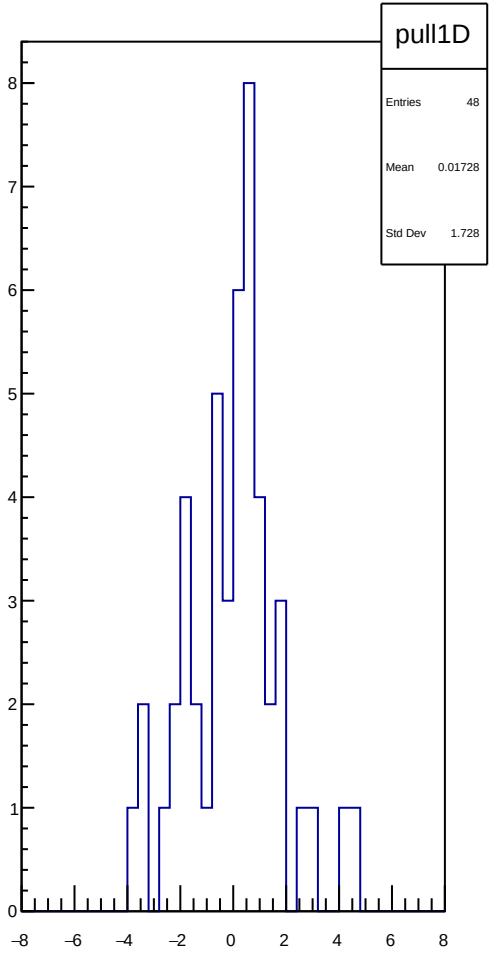

pull1D
Entries 48
Mean 0.00871
Std Dev 1.024

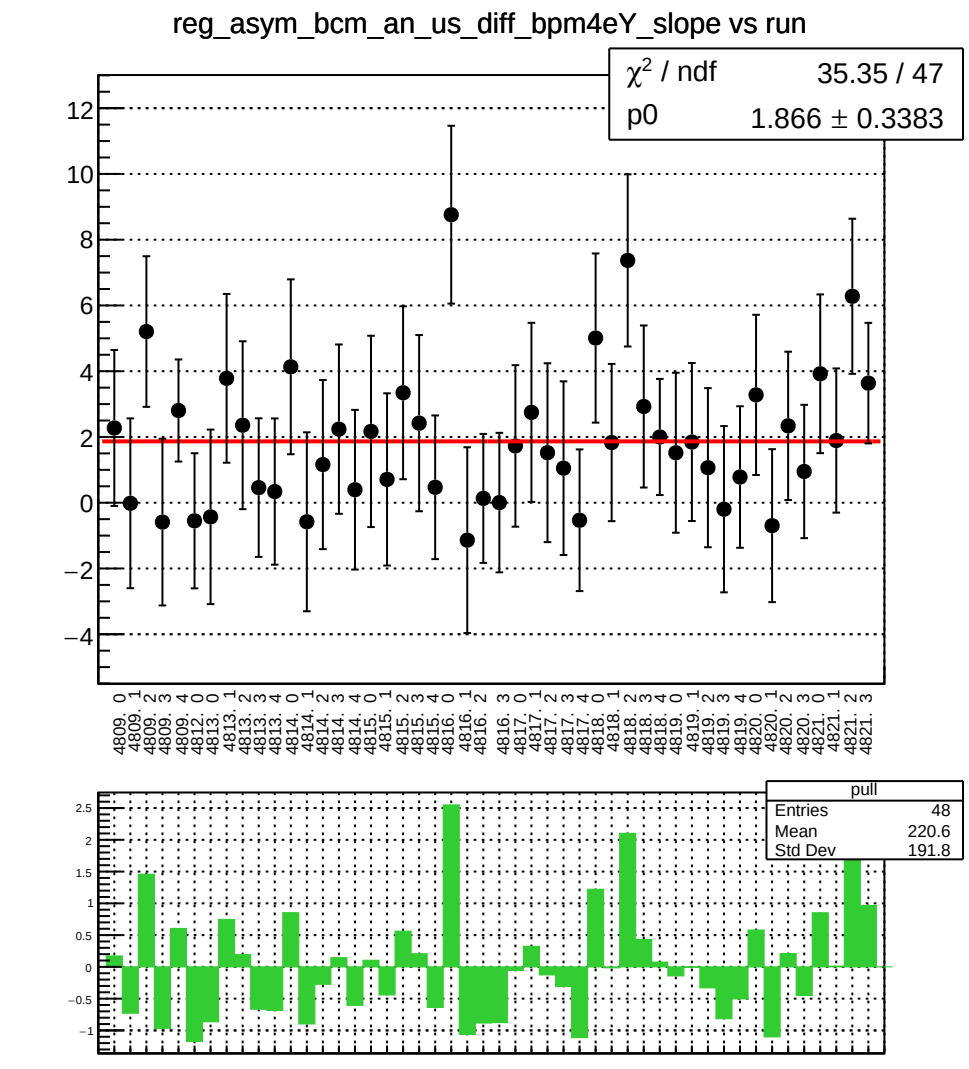

reg_asym_bcm_an_us_diff_bpm4aX_slope vs run
χ² / ndf 105.1 / 47
p0 −16.61 ± 0.2374
pull
Entries 48
Mean −180.4
Std Dev 206

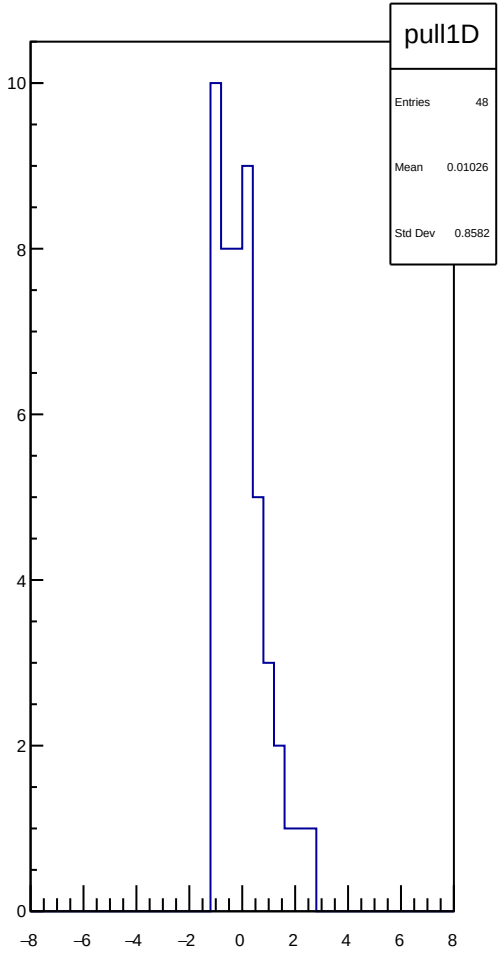

pull1D
Entries 48
Mean −0.05923
Std Dev 1.478

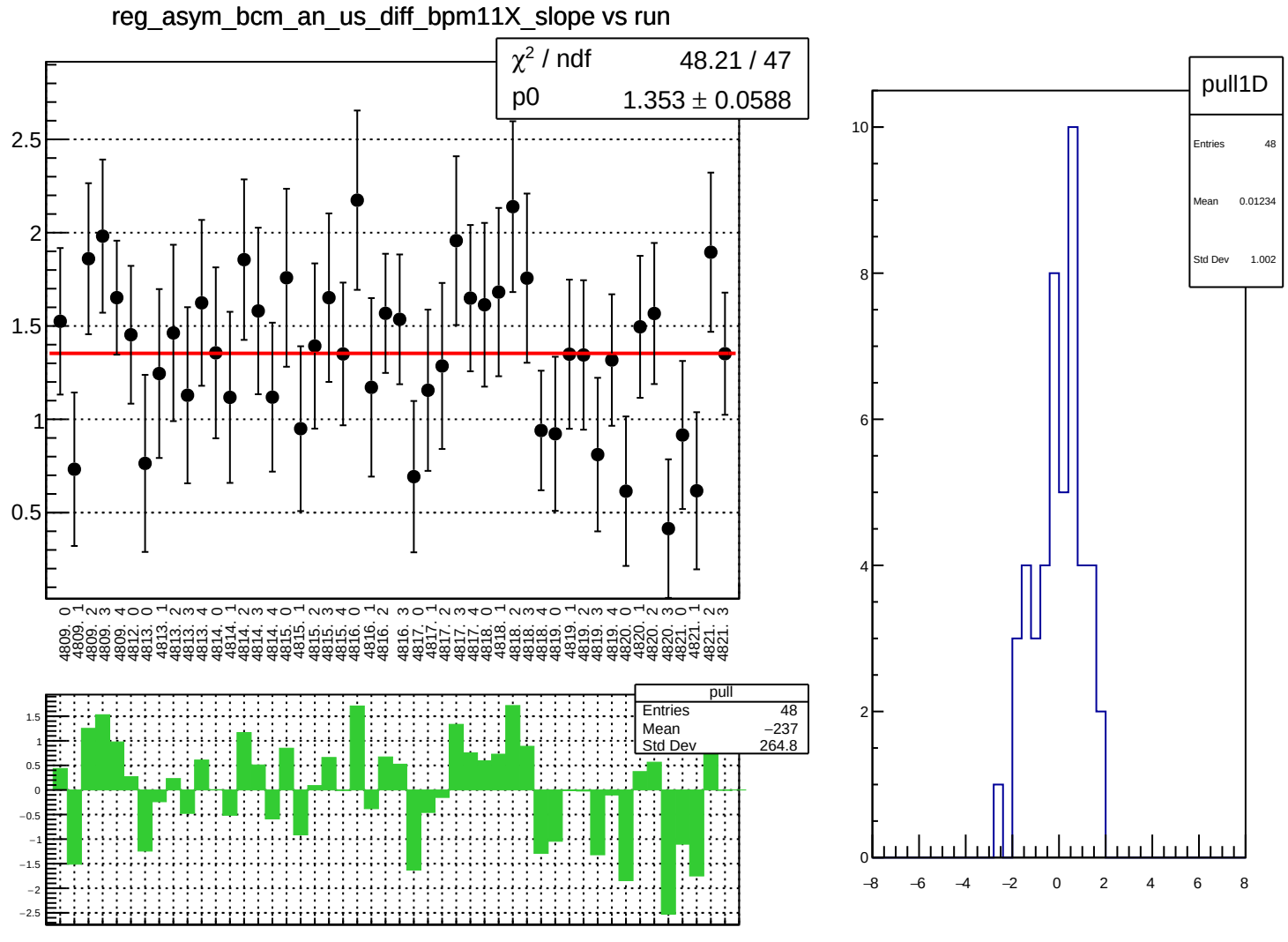

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 39.14 / 47
p0 −4.444 ± 0.2855
pull
Entries 48
Mean 78.13
Std Dev 47.05
pull1D
Entries 48
Mean −0.01588
Std Dev 0.9029

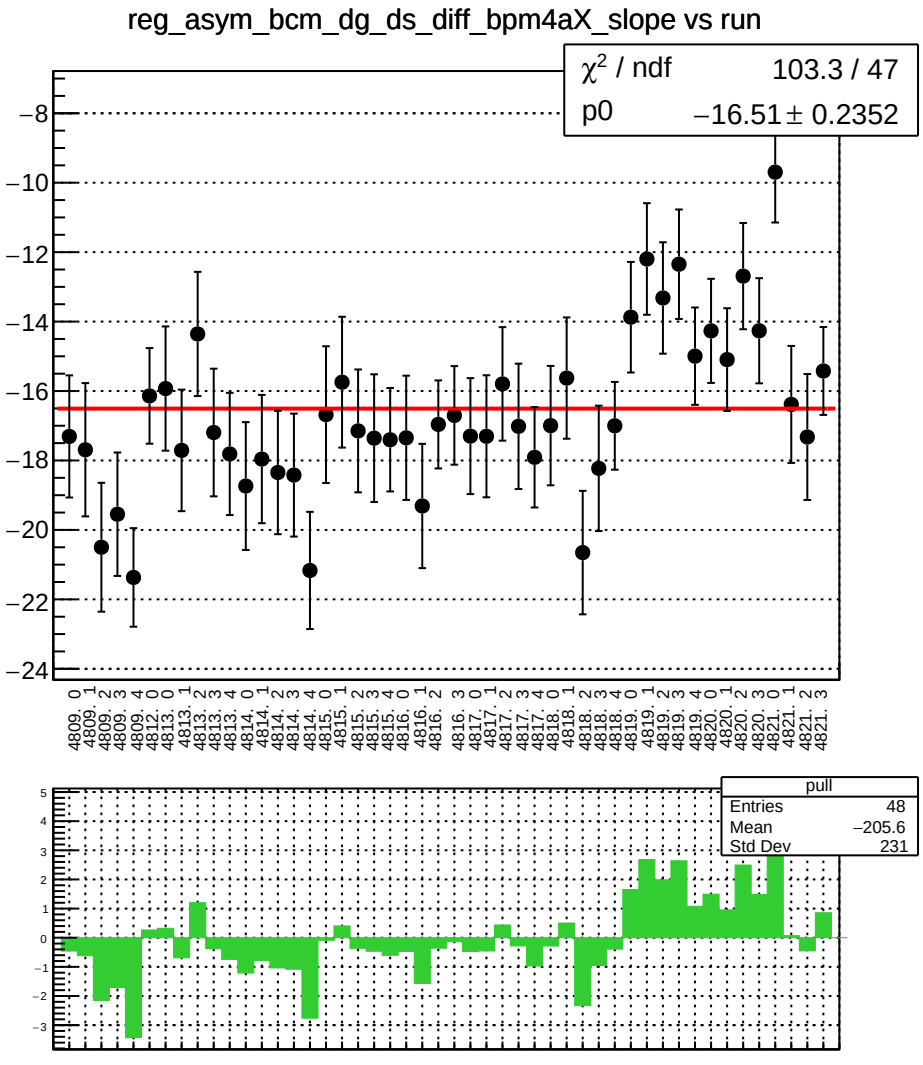
reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 143.4 / 47
p0 3.528 ± 0.04559
pull
Entries 48
Mean −801.2
Std Dev 826.1

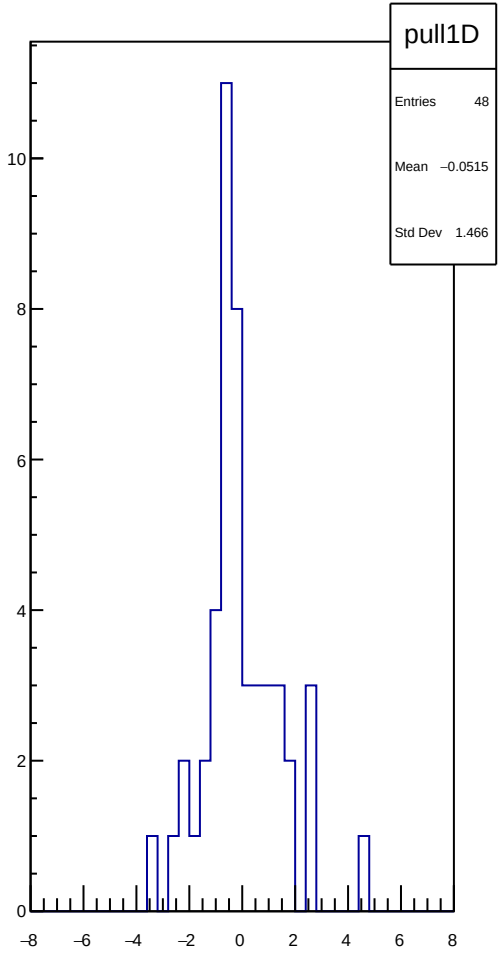

pull1D
Entries 48
Mean 0.01728
Std Dev 1.728

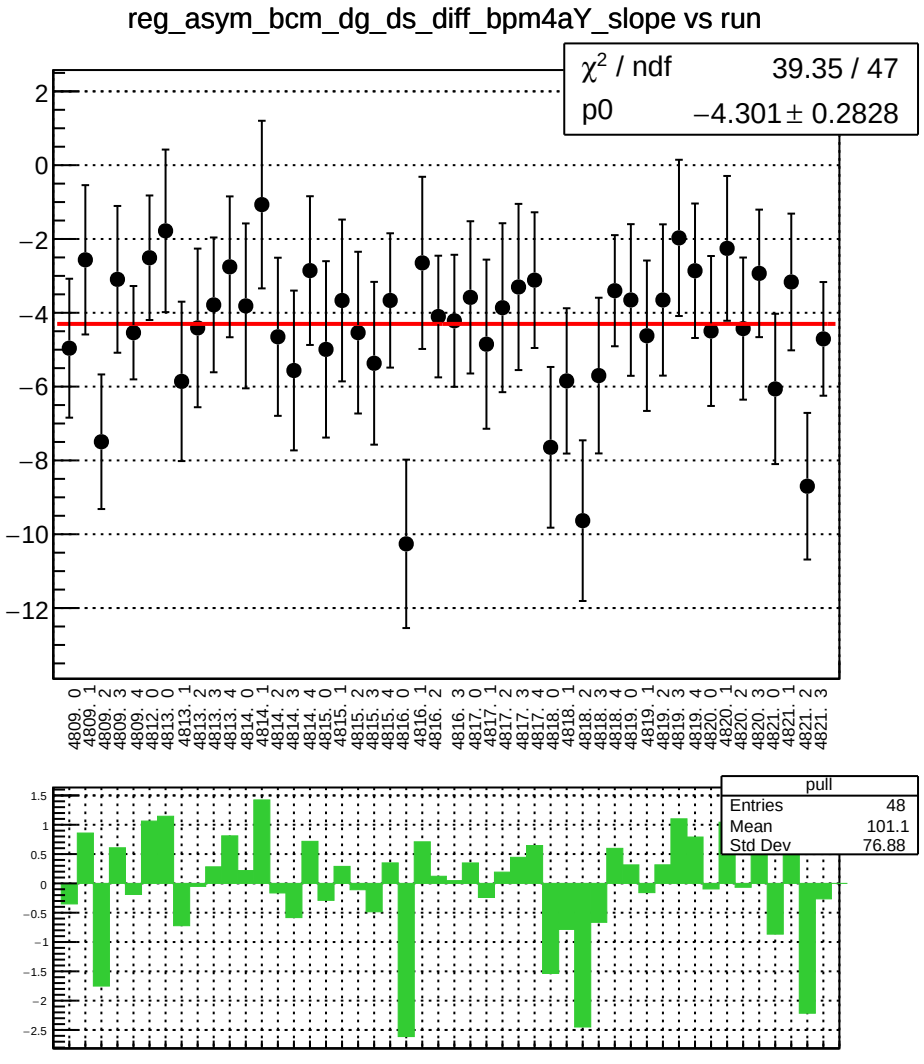

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 35.35 / 47
p0 1.866 ± 0.3383
pull
Entries 48
Mean 220.6
Std Dev 191.8

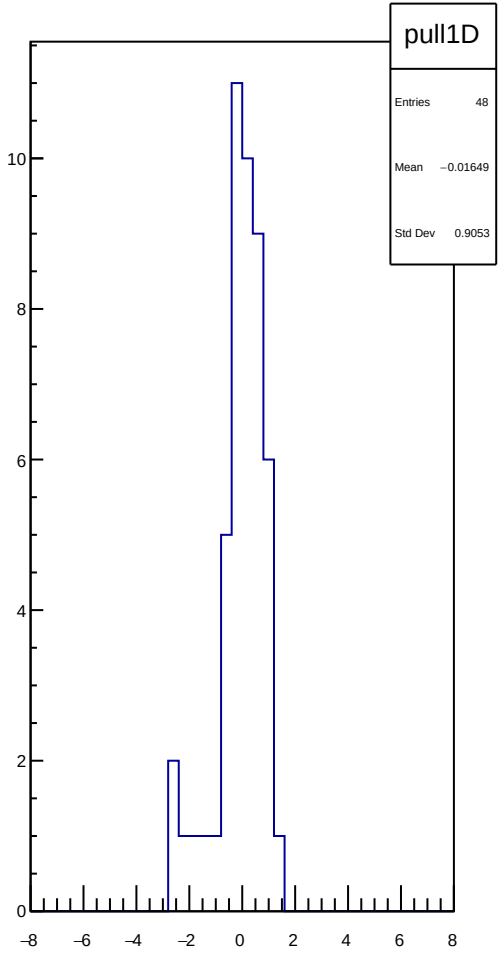

pull1D
Entries 48
Mean 0.01026
Std Dev 0.8582

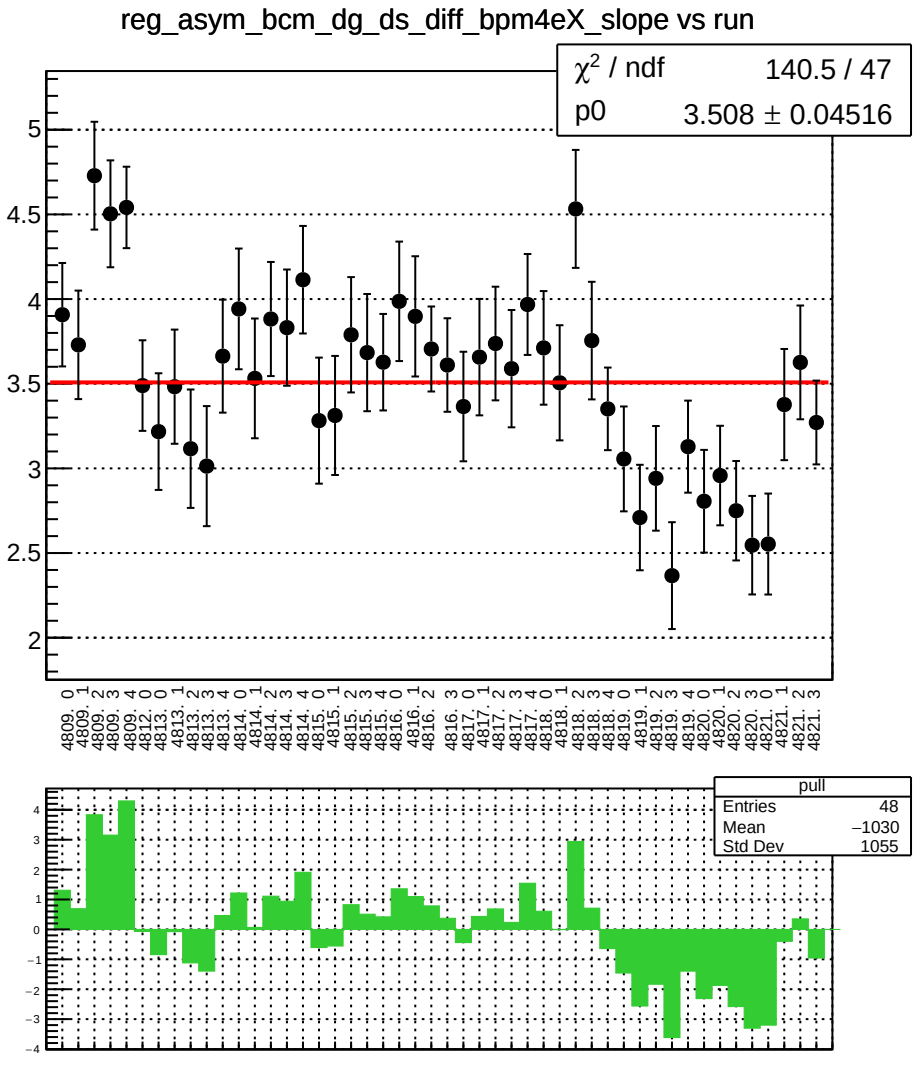

reg_asym_bcm_an_us_diff_bpm11X_slope vs run
χ² / ndf 48.21 / 47
p0 1.353 ± 0.0588
pull
Entries 48
Mean −237
Std Dev 264.8
pull1D
Entries 48
Mean 0.01234
Std Dev 1.002

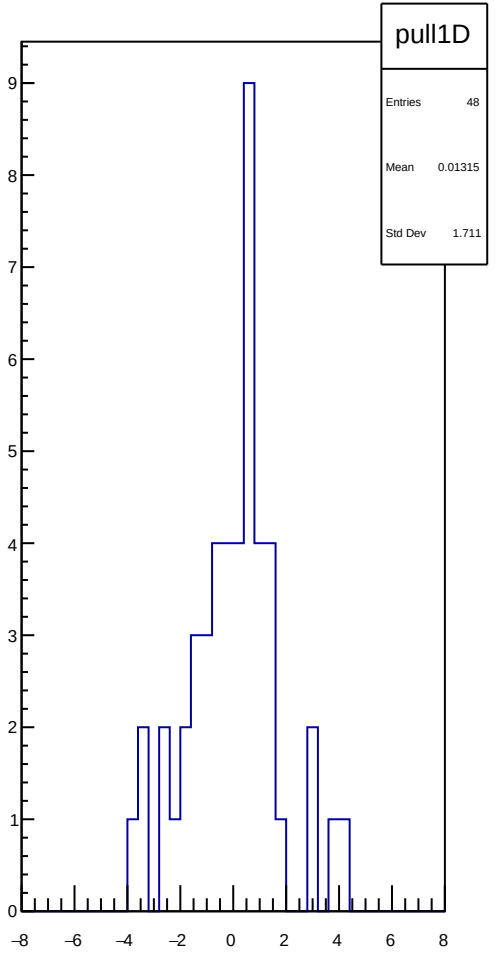

reg_asym_bcm_dg_ds_diff_bpm4aX_slope vs run
χ² / ndf 103.3 / 47
p0 −16.51 ± 0.2352
pull
Entries 48
Mean −205.6
Std Dev 231

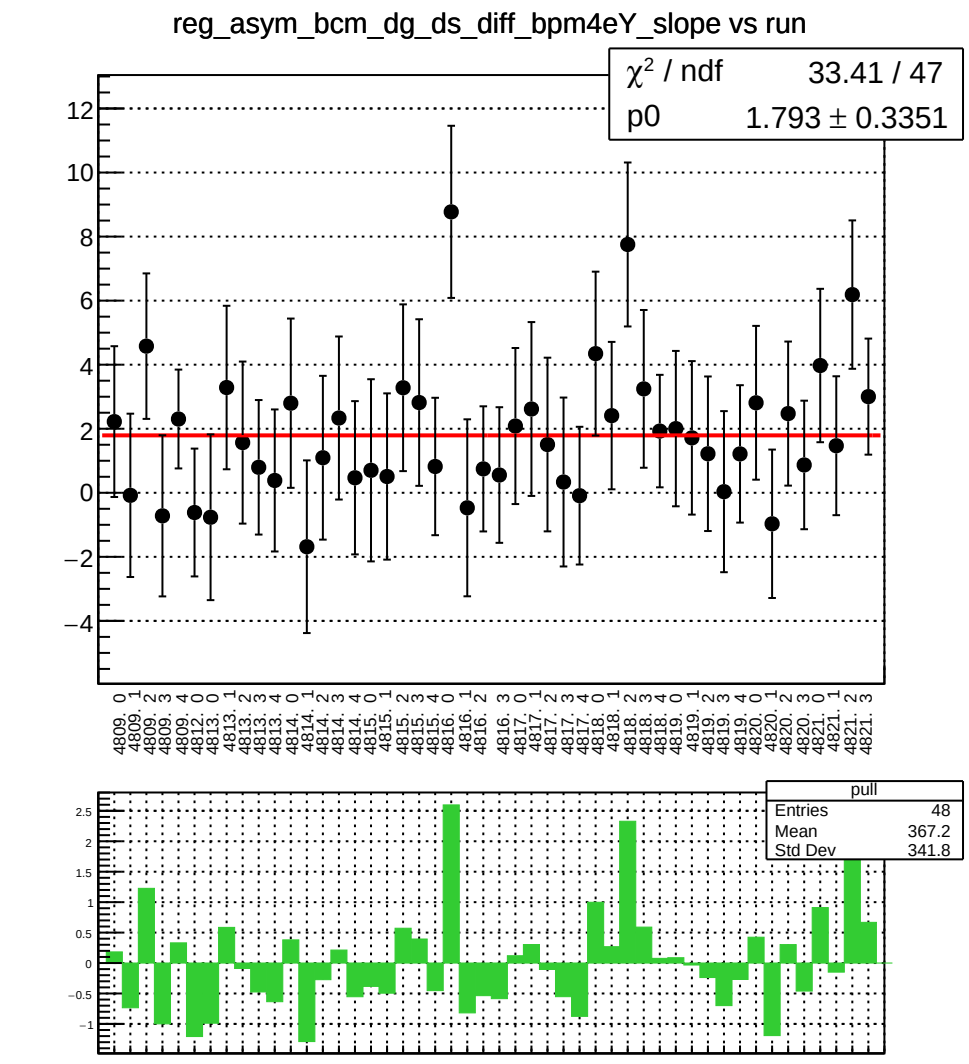

pull1D
Entries 48
Mean −0.0515
Std Dev 1.466

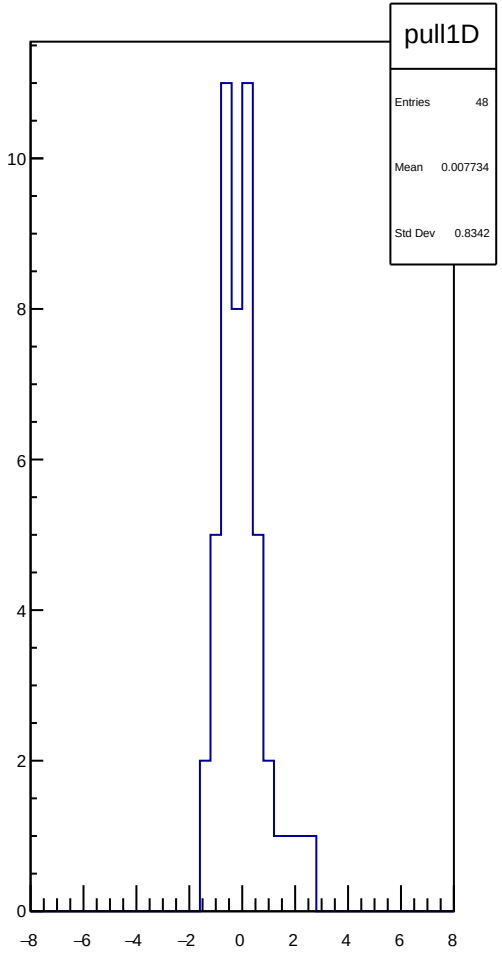

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 39.35 / 47
p0 −4.301 ± 0.2828
pull
Entries 48
Mean 101.1
Std Dev 76.88

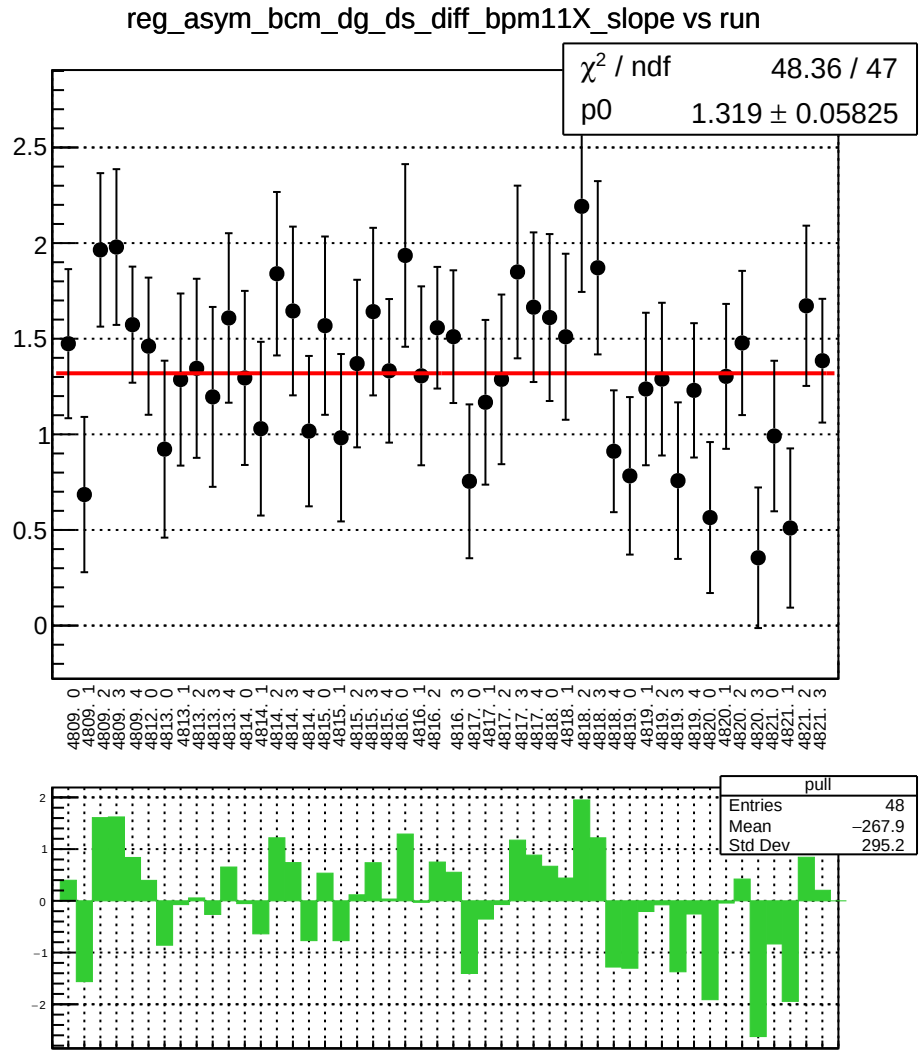

pull1D
Entries 48
Mean −0.01649
Std Dev 0.9053

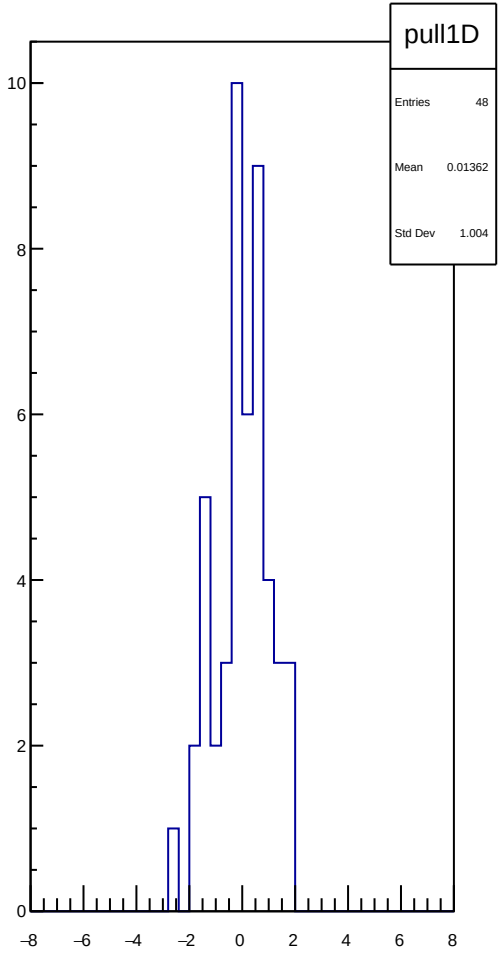

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 140.5 / 47
p0 3.508 ± 0.04516
pull
Entries 48
Mean −1030
Std Dev 1055

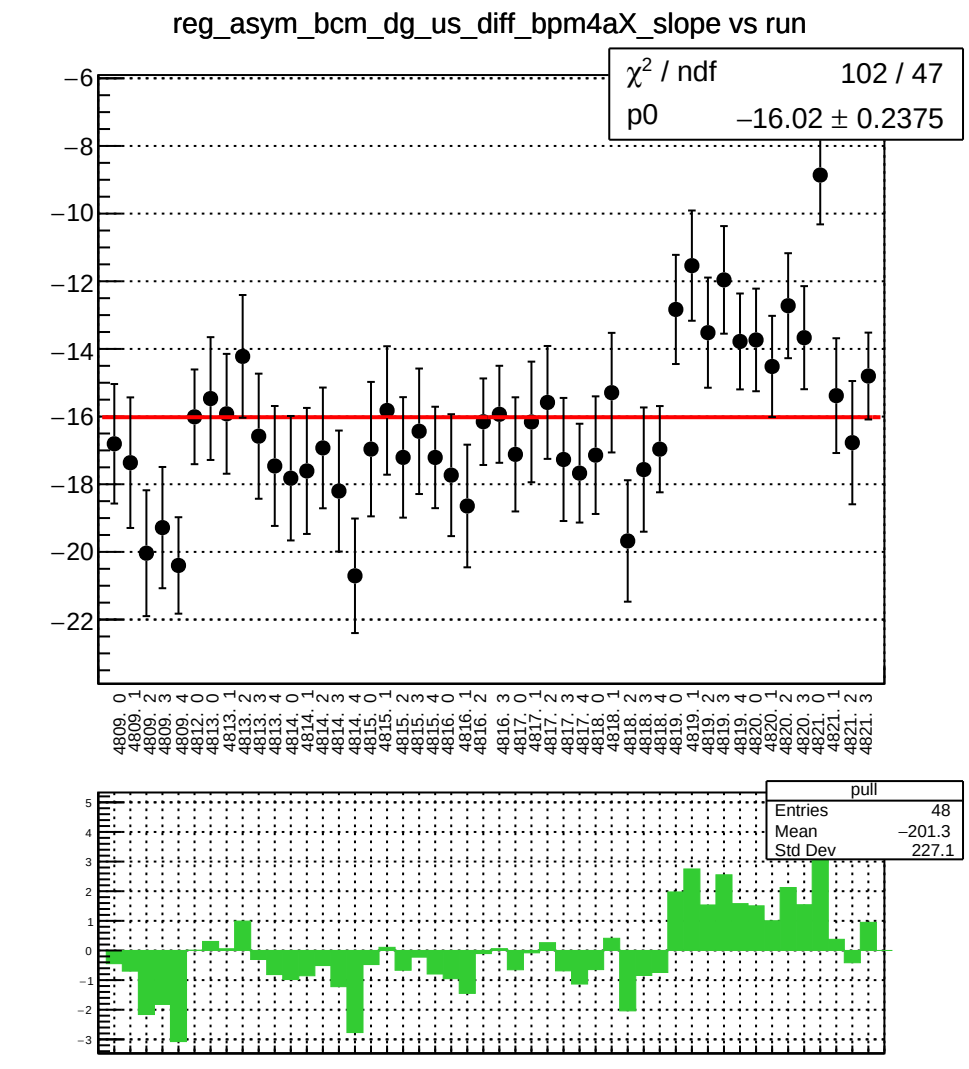

pull1D
Entries 48
Mean 0.01315
Std Dev 1.711

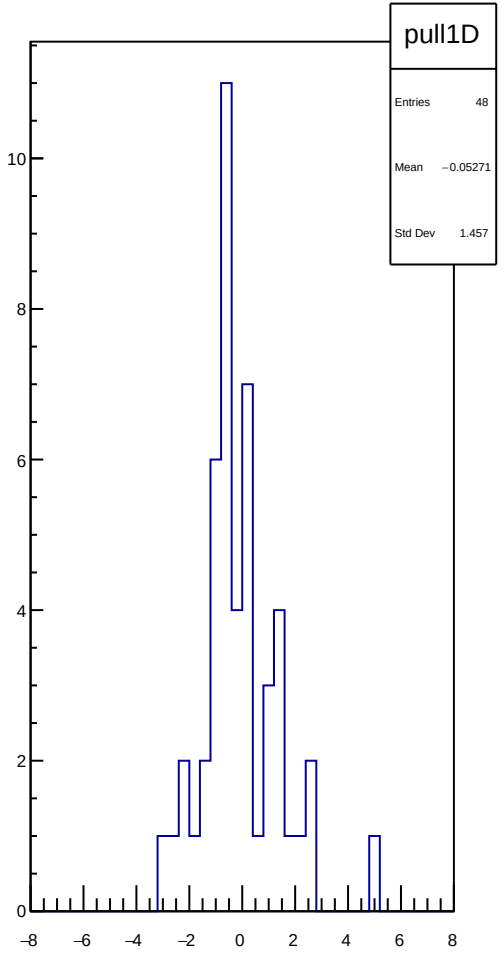

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 33.41 / 47
p0 1.793 ± 0.3351
pull
Entries 48
Mean 367.2
Std Dev 341.8

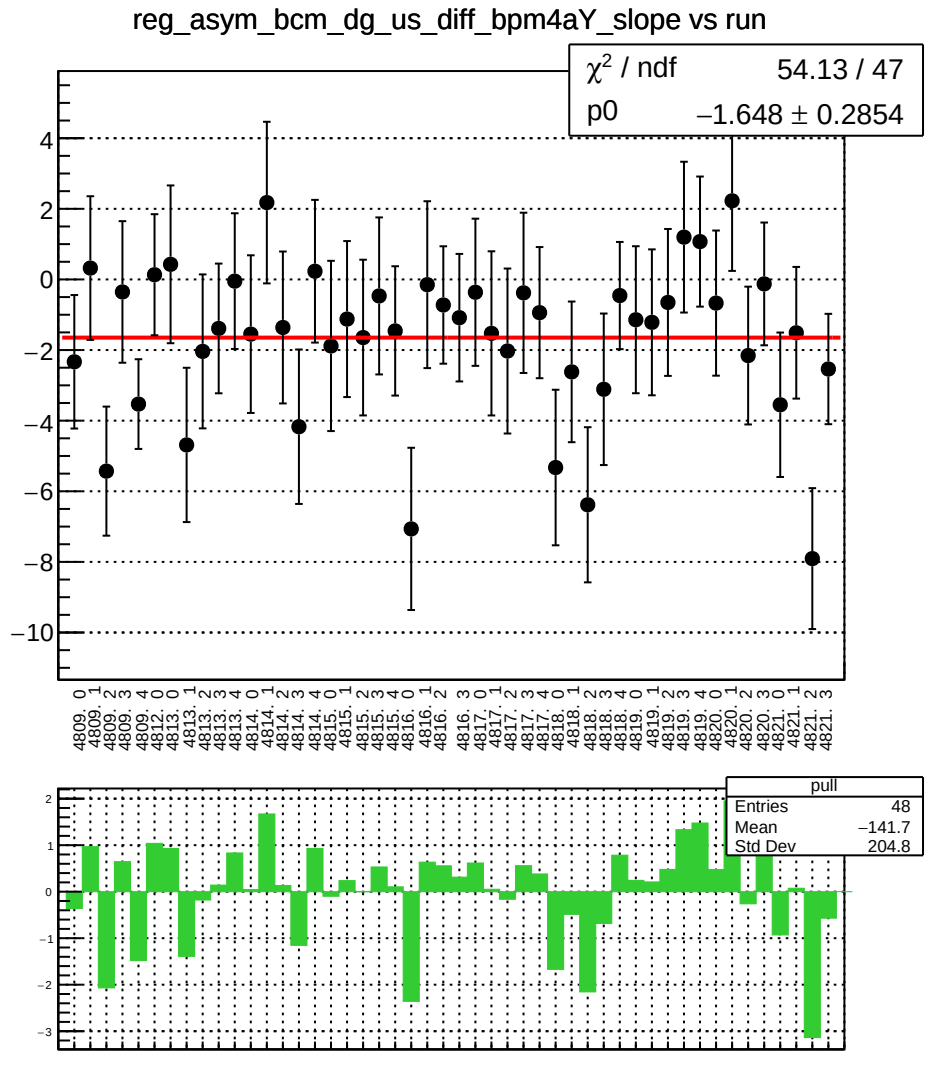

pull1D
Entries 48
Mean 0.007734
Std Dev 0.8342

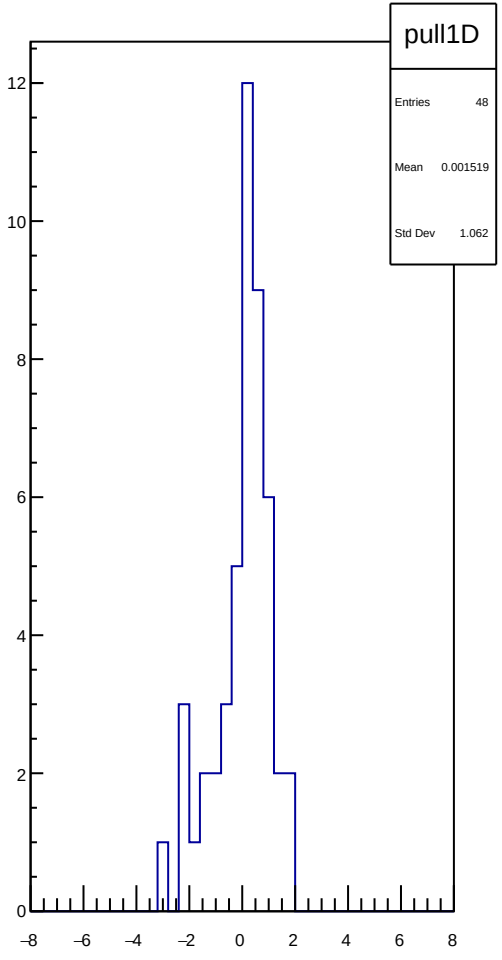

reg_asym_bcm_dg_ds_diff_bpm11X_slope vs run
χ² / ndf 48.36 / 47
p0 1.319 ± 0.05825
pull
Entries 48
Mean −267.9
Std Dev 295.2

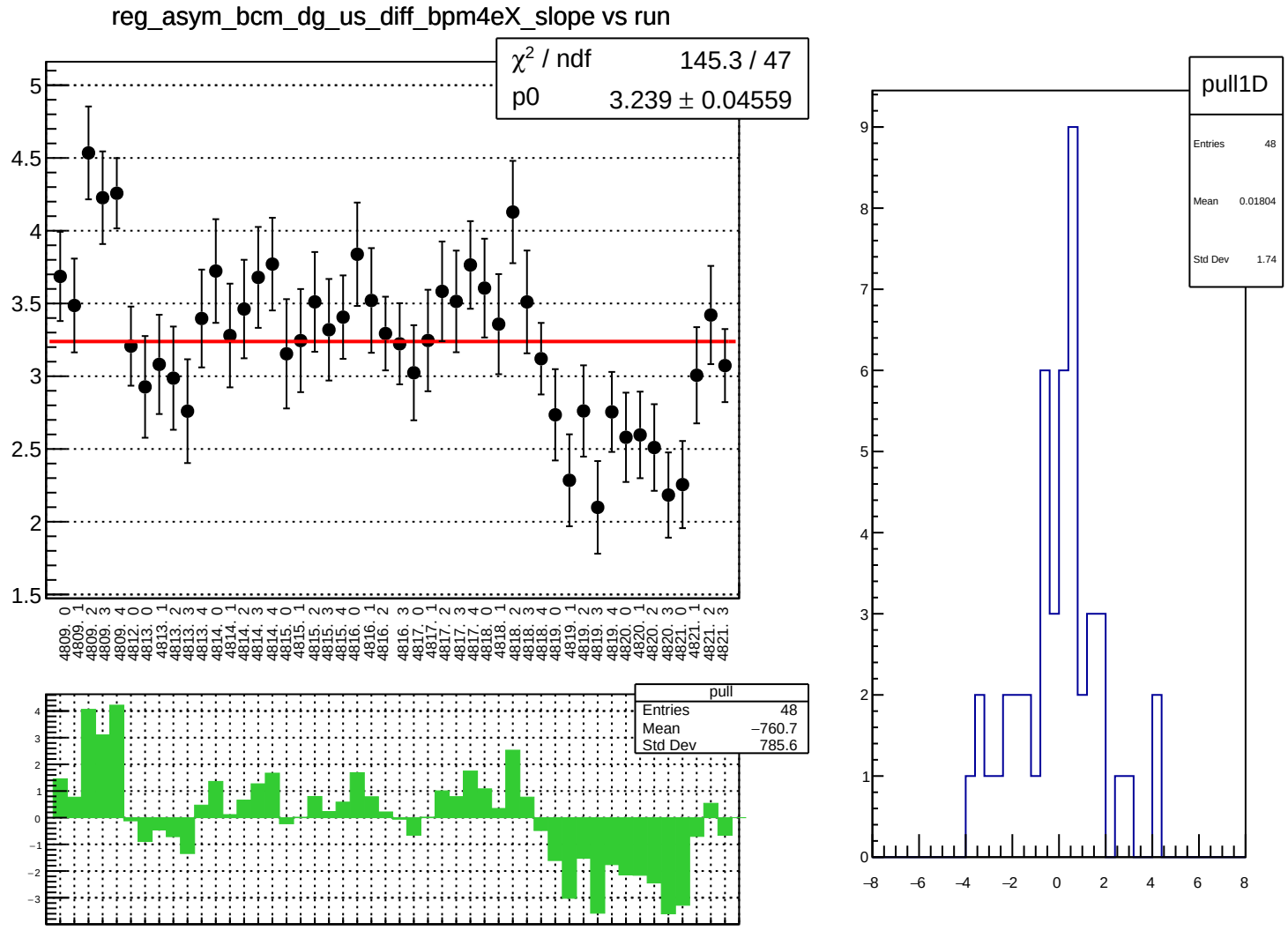

pull1D
Entries 48
Mean 0.01362
Std Dev 1.004

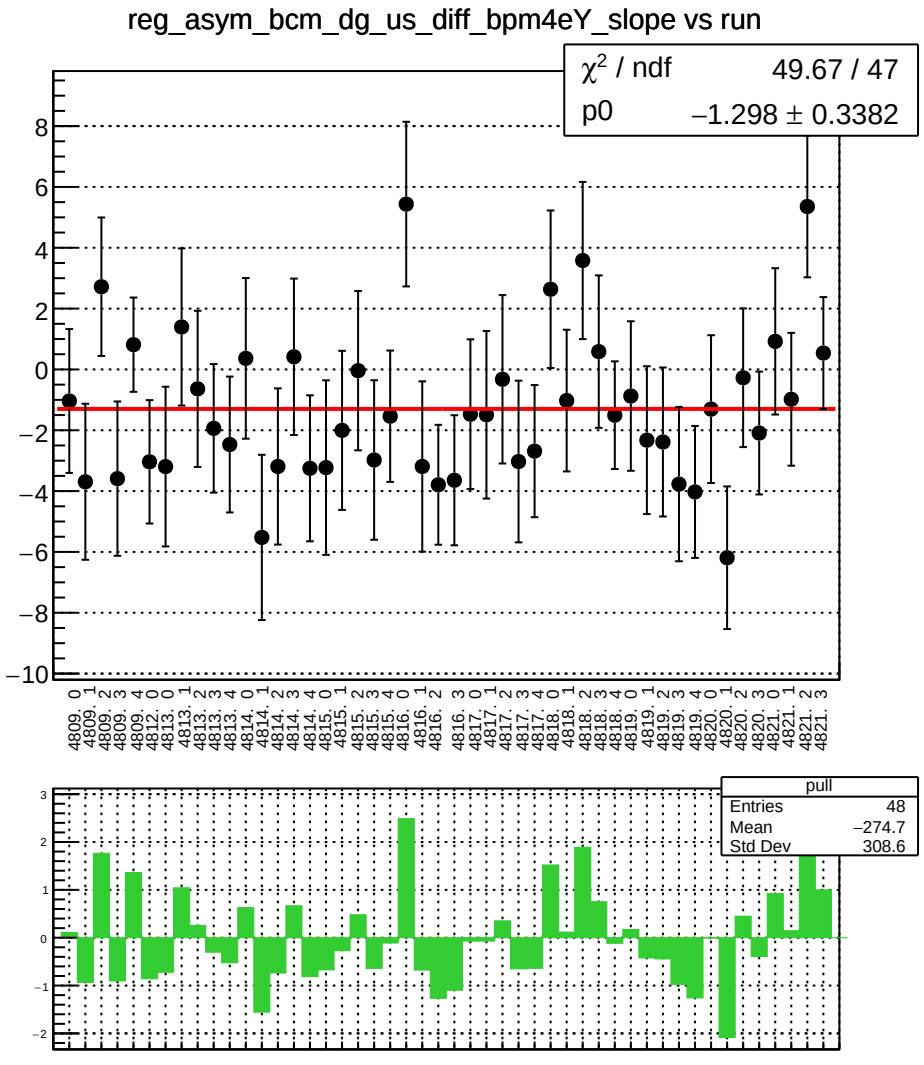

reg_asym_bcm_dg_us_diff_bpm4aX_slope vs run
χ² / ndf 102 / 47
p0 −16.02 ± 0.2375
pull
Entries 48
Mean −201.3
Std Dev 227.1

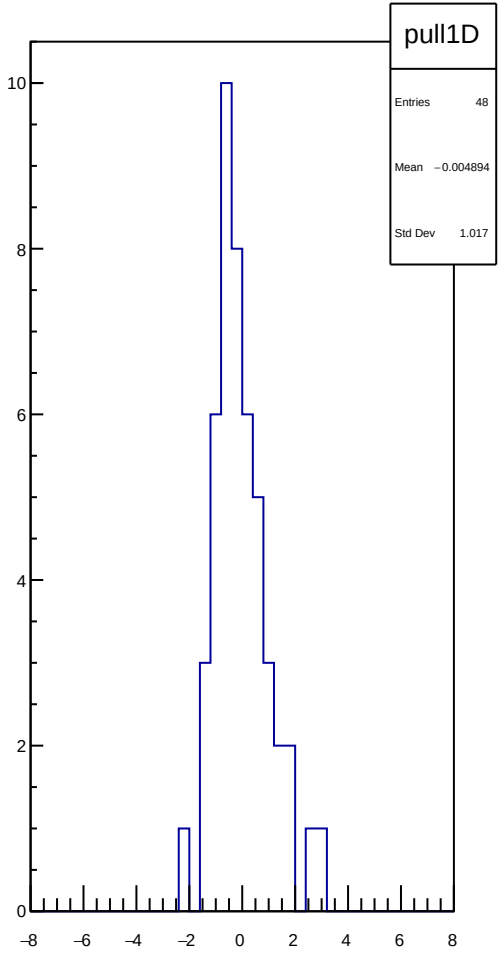

pull1D
Entries 48
Mean −0.05271
Std Dev 1.457

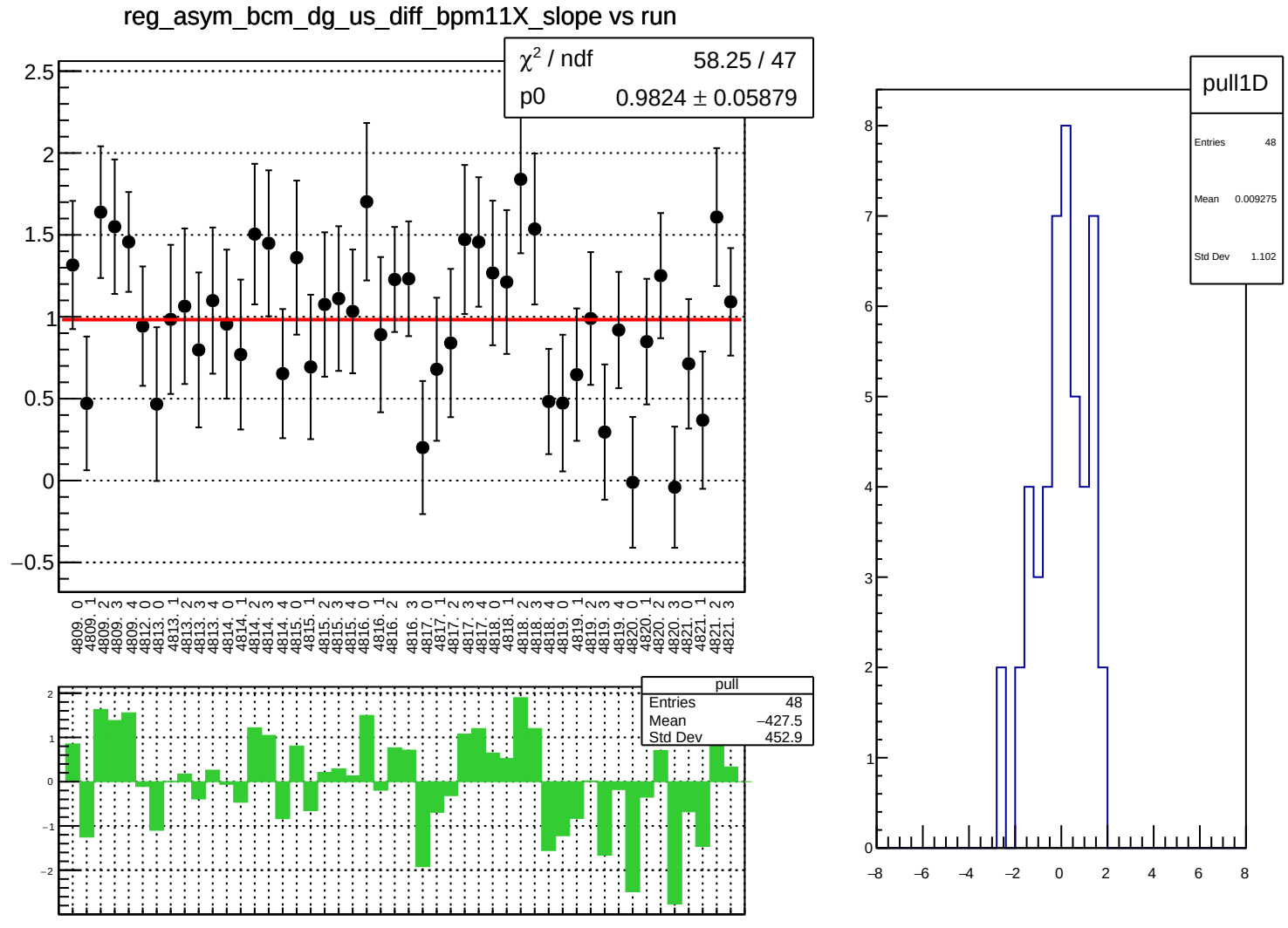

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 54.13 / 47
p0 −1.648 ± 0.2854
pull
Entries 48
Mean −141.7
Std Dev 204.8

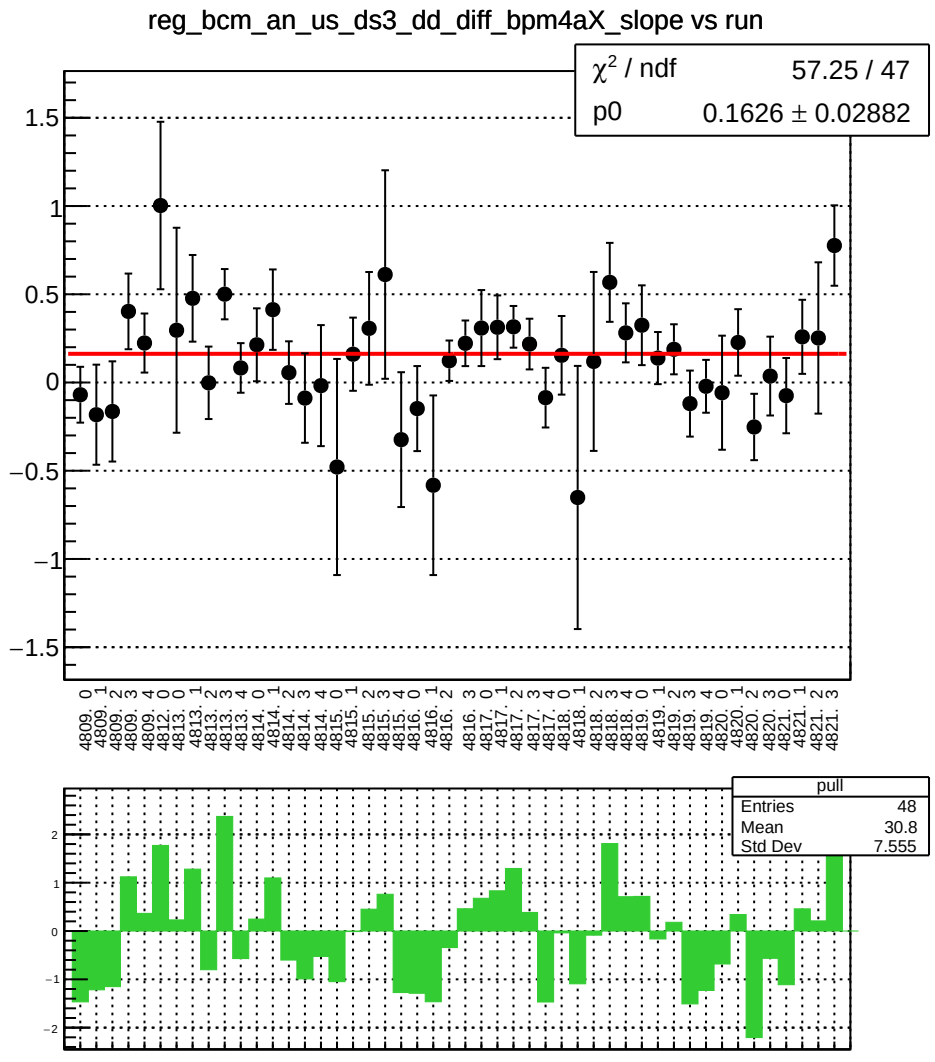

pull1D
Entries 48
Mean 0.001519
Std Dev 1.062

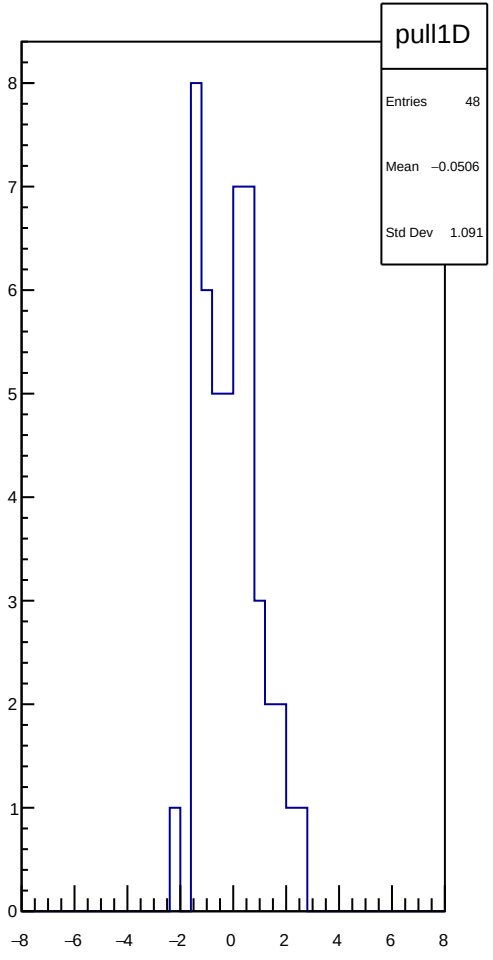

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 145.3 / 47
p0 3.239 ± 0.04559
pull
Entries 48
Mean −760.7
Std Dev 785.6
pull1D
Entries 48
Mean 0.01804
Std Dev 1.74

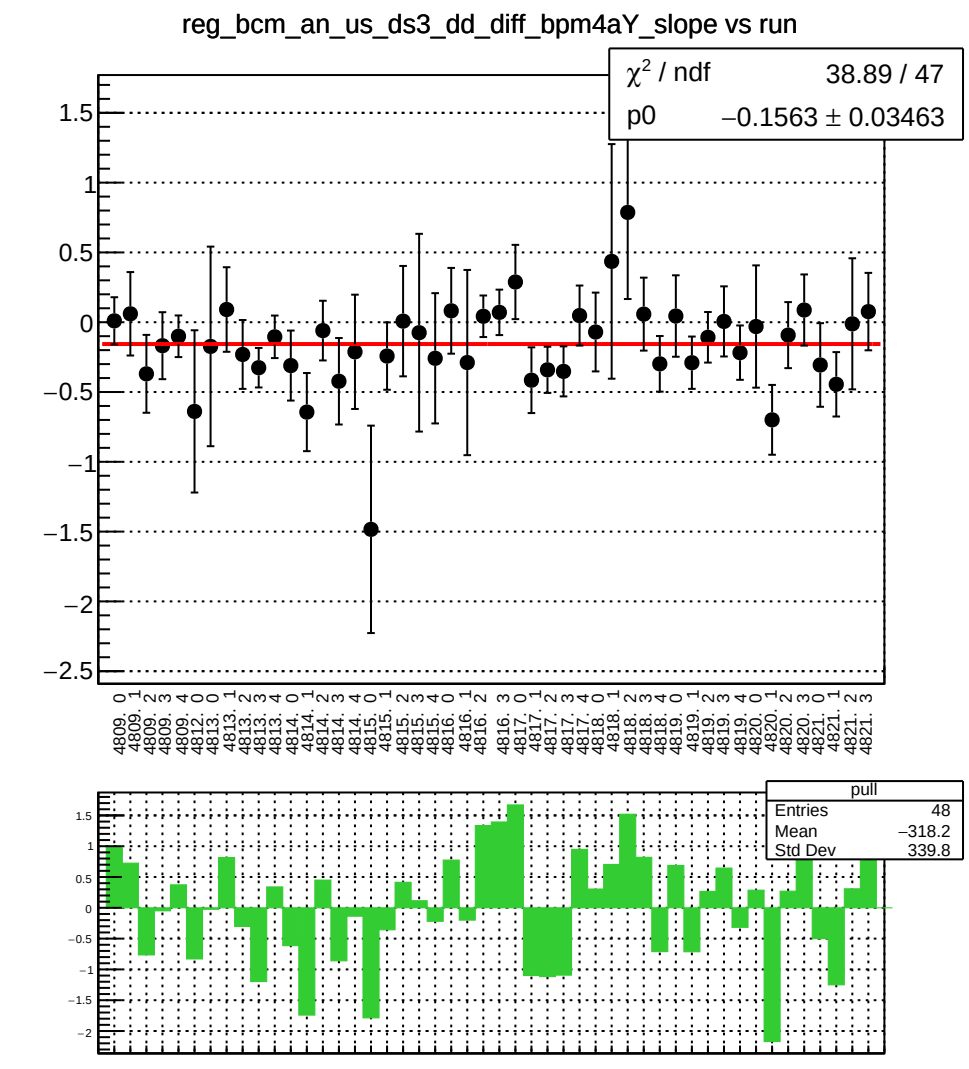

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 49.67 / 47
p0 −1.298 ± 0.3382
pull
Entries 48
Mean −274.7
Std Dev 308.6

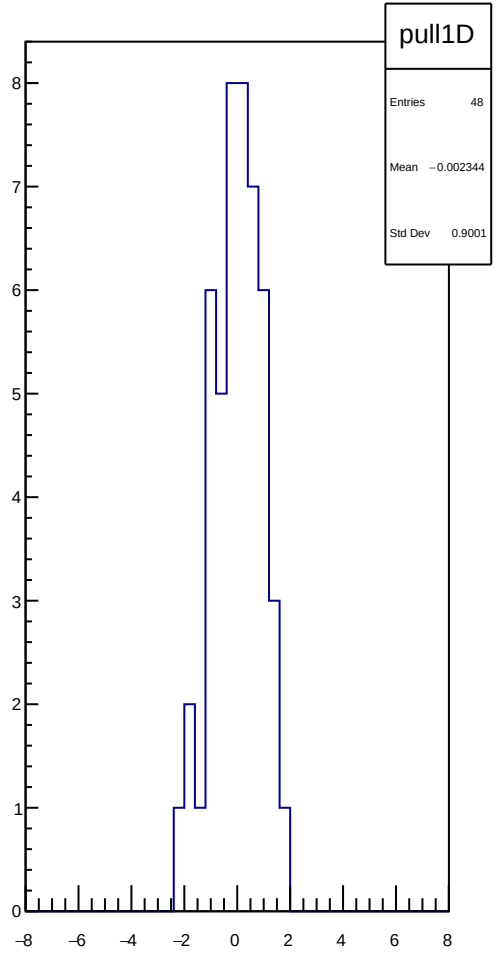

pull1D
Entries 48
Mean −0.004894
Std Dev 1.017

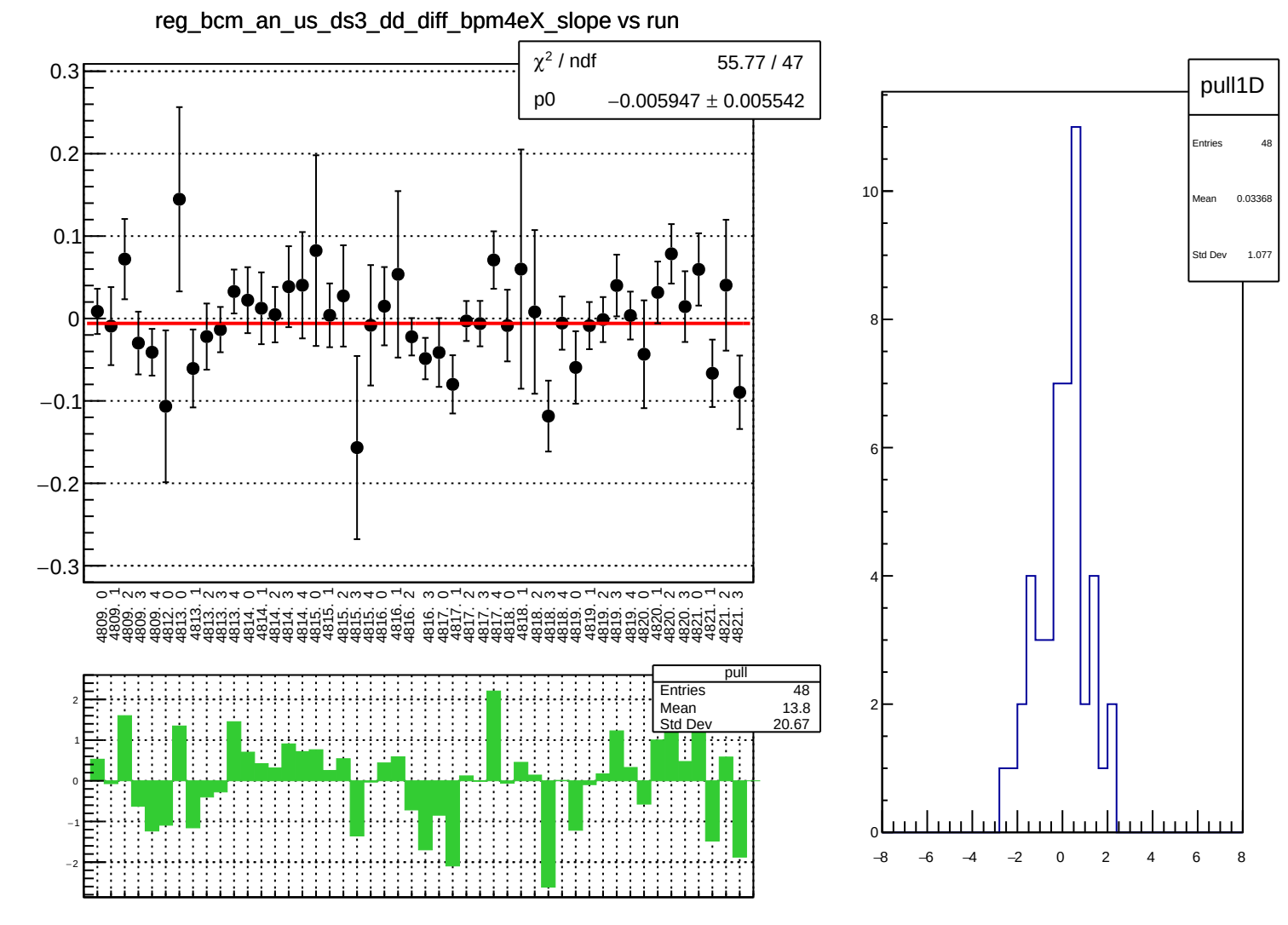

reg_asym_bcm_dg_us_diff_bpm11X_slope vs run
χ² / ndf 58.25 / 47
p0 0.9824 ± 0.05879
pull
Entries 48
Mean −427.5
Std Dev 452.9
pull1D
Entries 48
Mean 0.009275
Std Dev 1.102

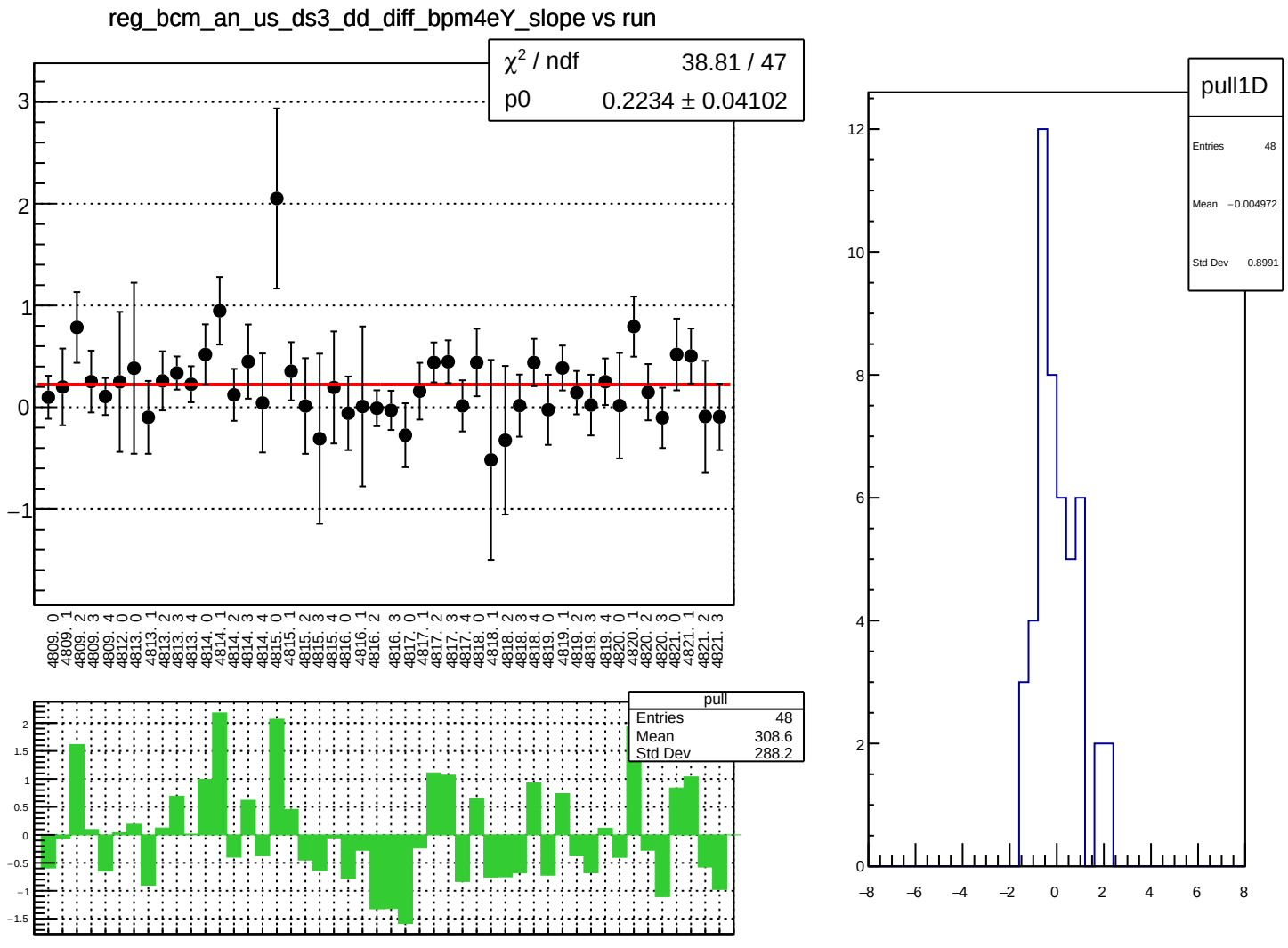

reg_bcm_an_us_ds3_dd_diff_bpm4aX_slope vs run
χ² / ndf 57.25 / 47
p0 0.1626 ± 0.02882
pull
Entries 48
Mean 30.8
Std Dev 7.555

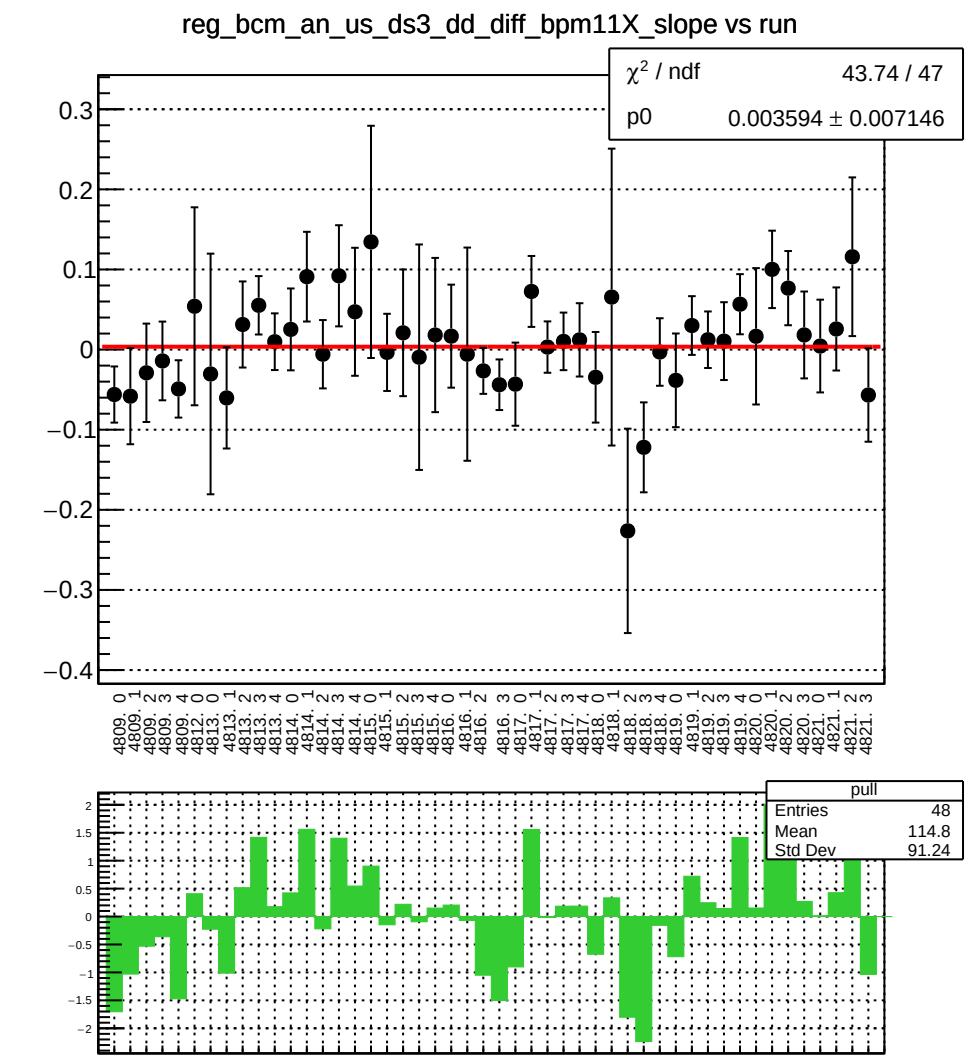

pull1D
Entries 48
Mean −0.0506
Std Dev 1.091

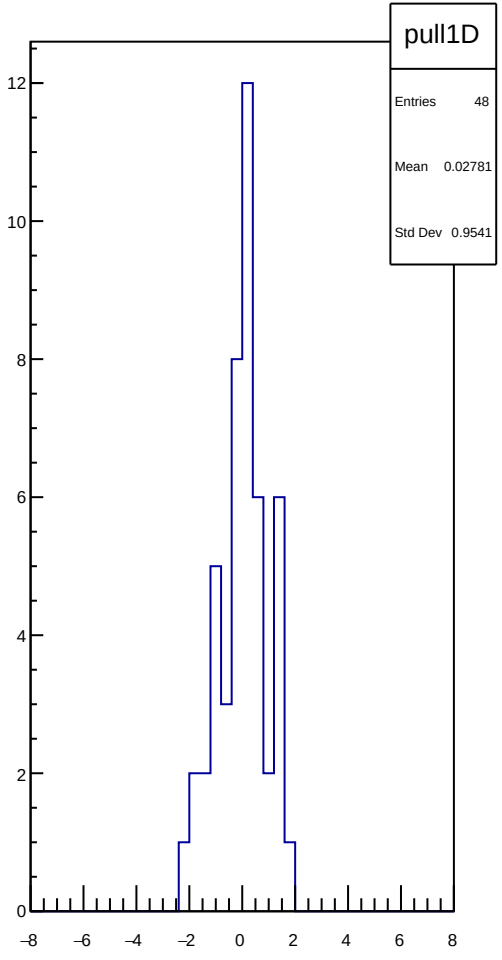

reg_bcm_an_us_ds3_dd_diff_bpm4aY_slope vs run
χ² / ndf 38.89 / 47
p0 −0.1563 ± 0.03463
pull
Entries 48
Mean −318.2
Std Dev 339.8

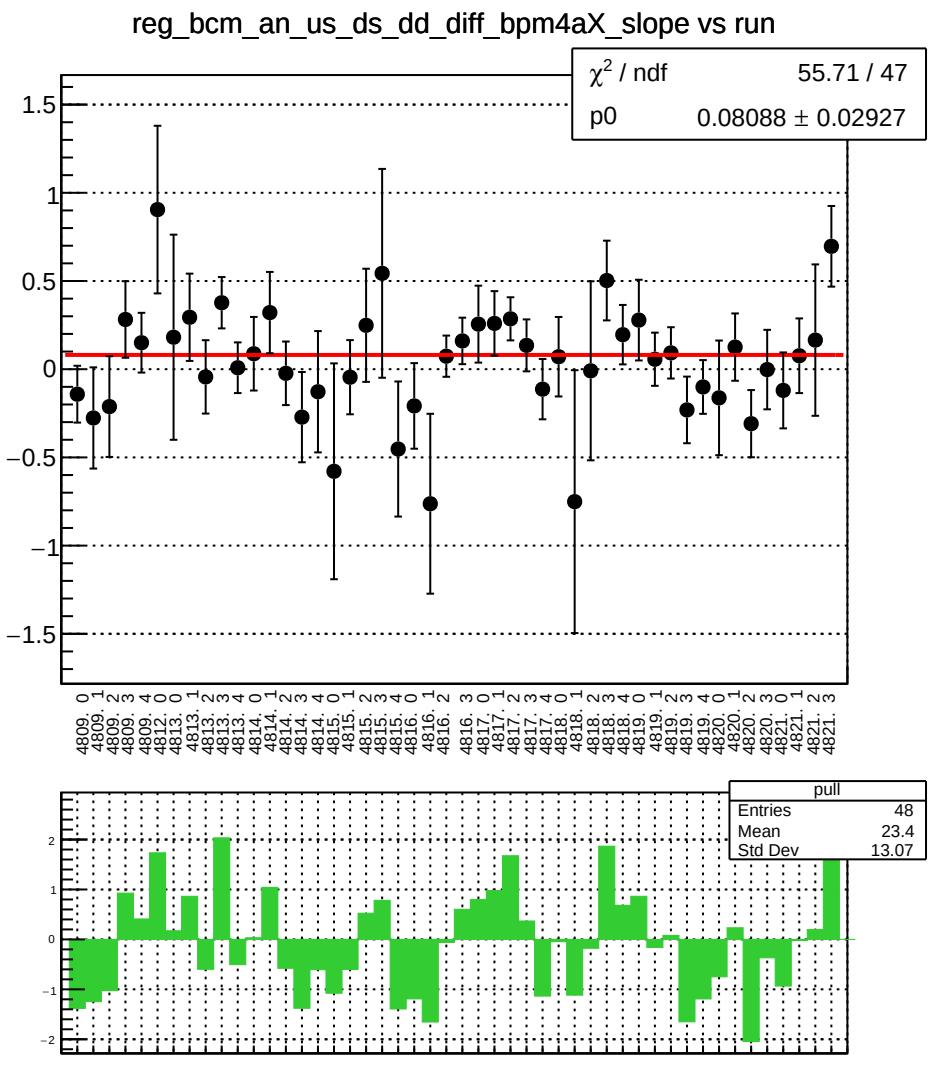

pull1D
Entries 48
Mean −0.002344
Std Dev 0.9001

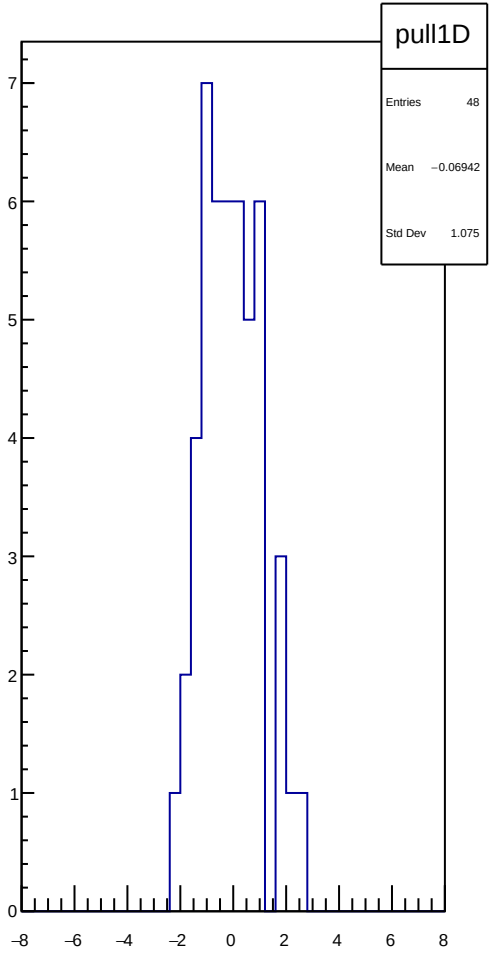

reg_bcm_an_us_ds3_dd_diff_bpm4eX_slope vs run
χ² / ndf 55.77 / 47
p0 −0.005947 ± 0.005542
pull
Entries 48
Mean 13.8
Std Dev 20.67
pull1D
Entries 48
Mean 0.03368
Std Dev 1.077

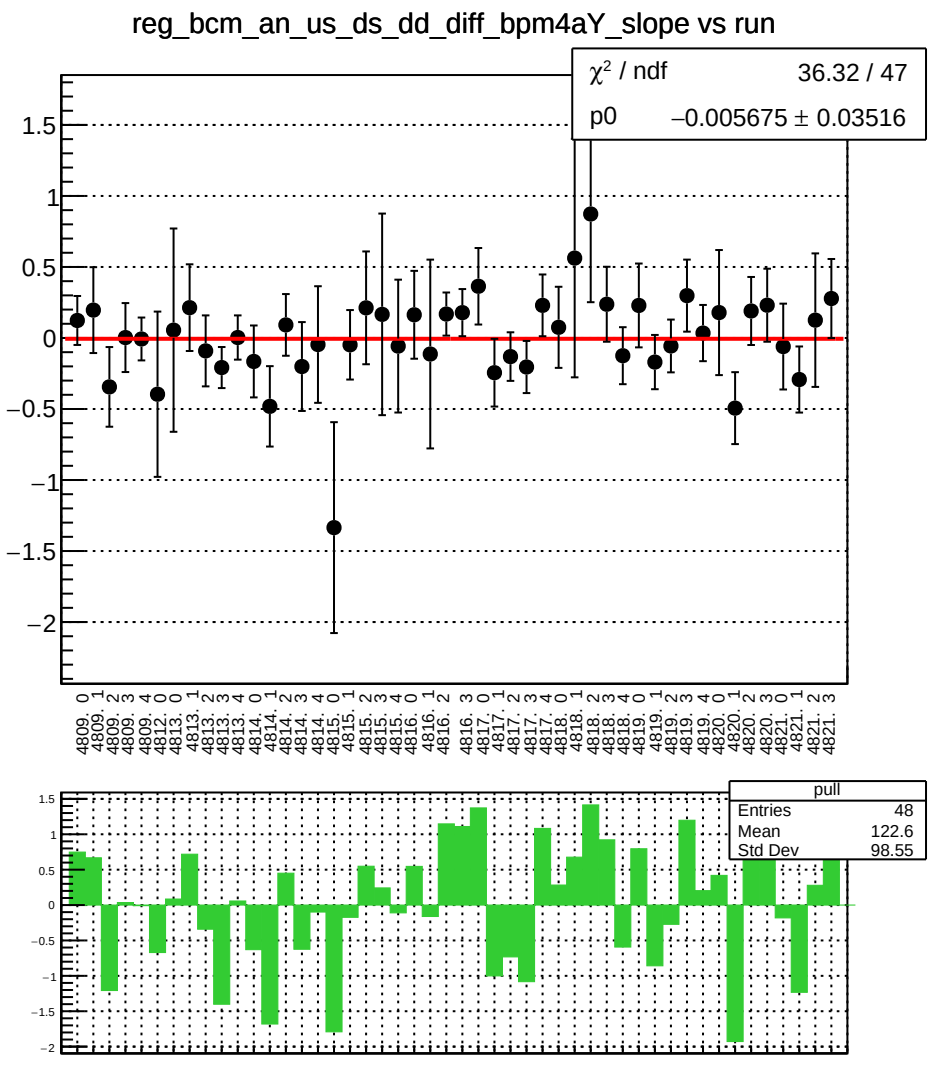

reg_bcm_an_us_ds3_dd_diff_bpm4eY_slope vs run
χ² / ndf 38.81 / 47
p0 0.2234 ± 0.04102
pull
Entries 48
Mean 308.6
Std Dev 288.2
pull1D
Entries 48
Mean −0.004972
Std Dev 0.8991

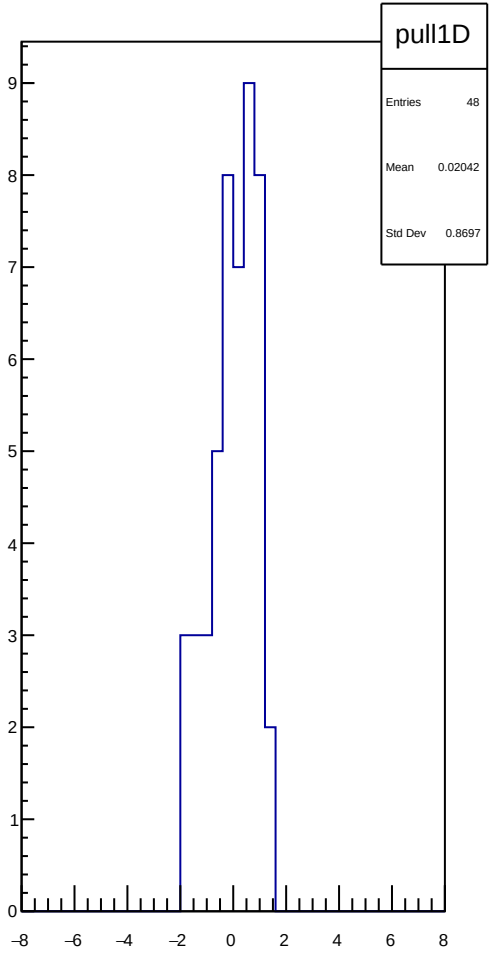

reg_bcm_an_us_ds3_dd_diff_bpm11X_slope vs run
χ² / ndf 43.74 / 47
p0 0.003594 ± 0.007146
pull
Entries 48
Mean 114.8
Std Dev 91.24

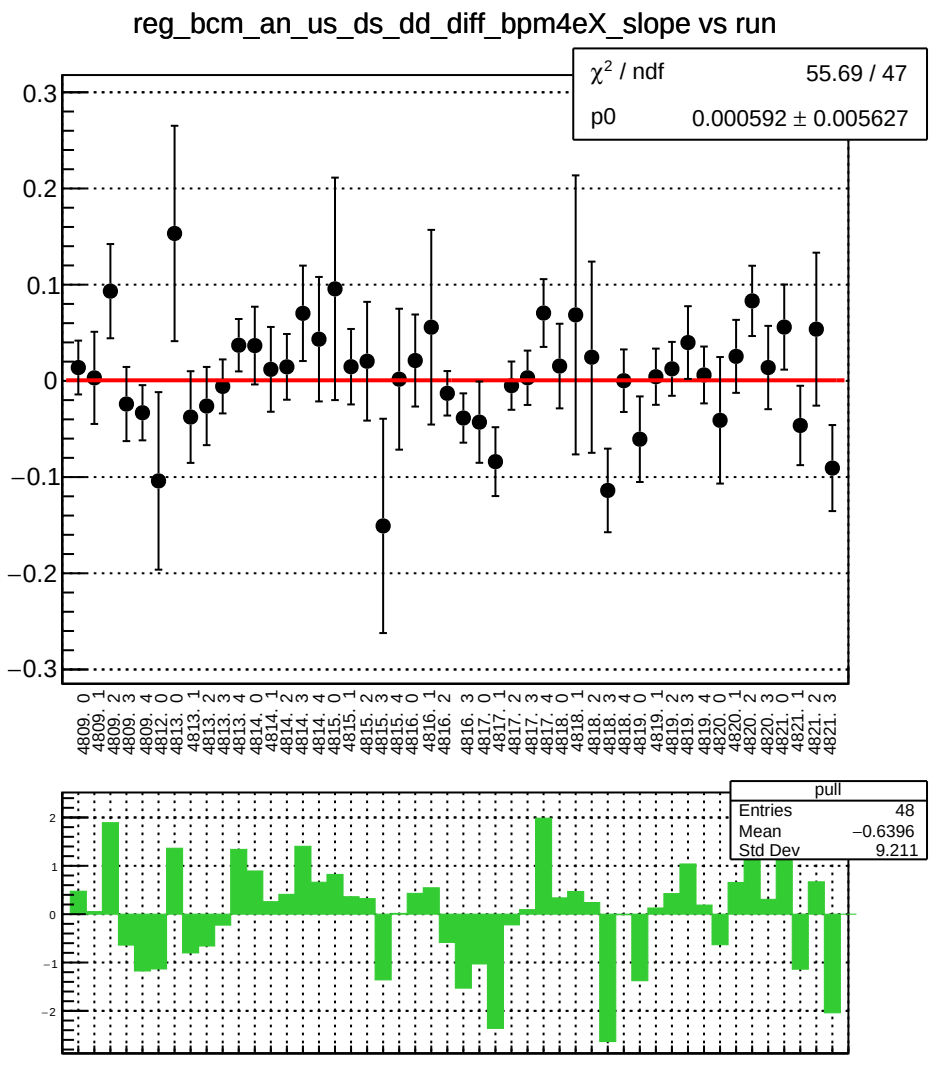

pull1D
Entries 48
Mean 0.02781
Std Dev 0.9541

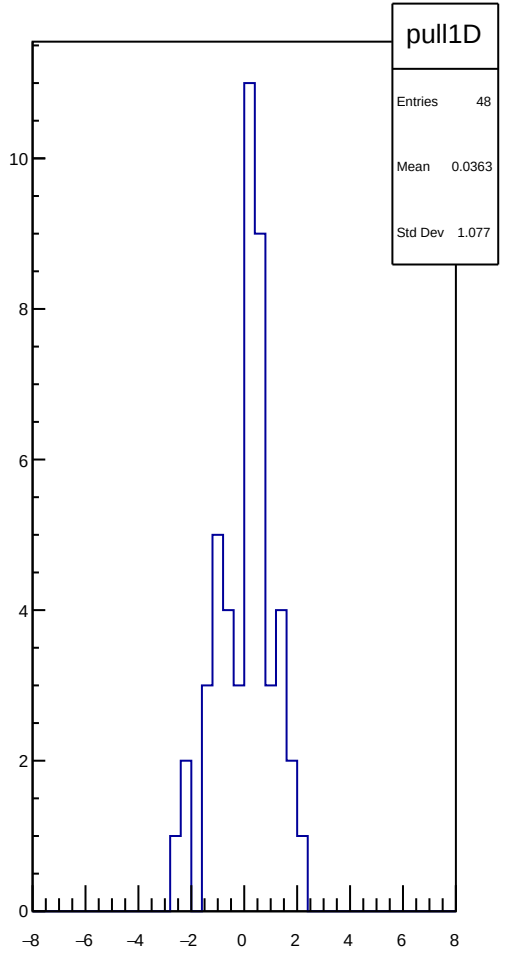

reg_bcm_an_us_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 55.71 / 47
p0 0.08088 ± 0.02927
pull
Entries 48
Mean 23.4
Std Dev 13.07

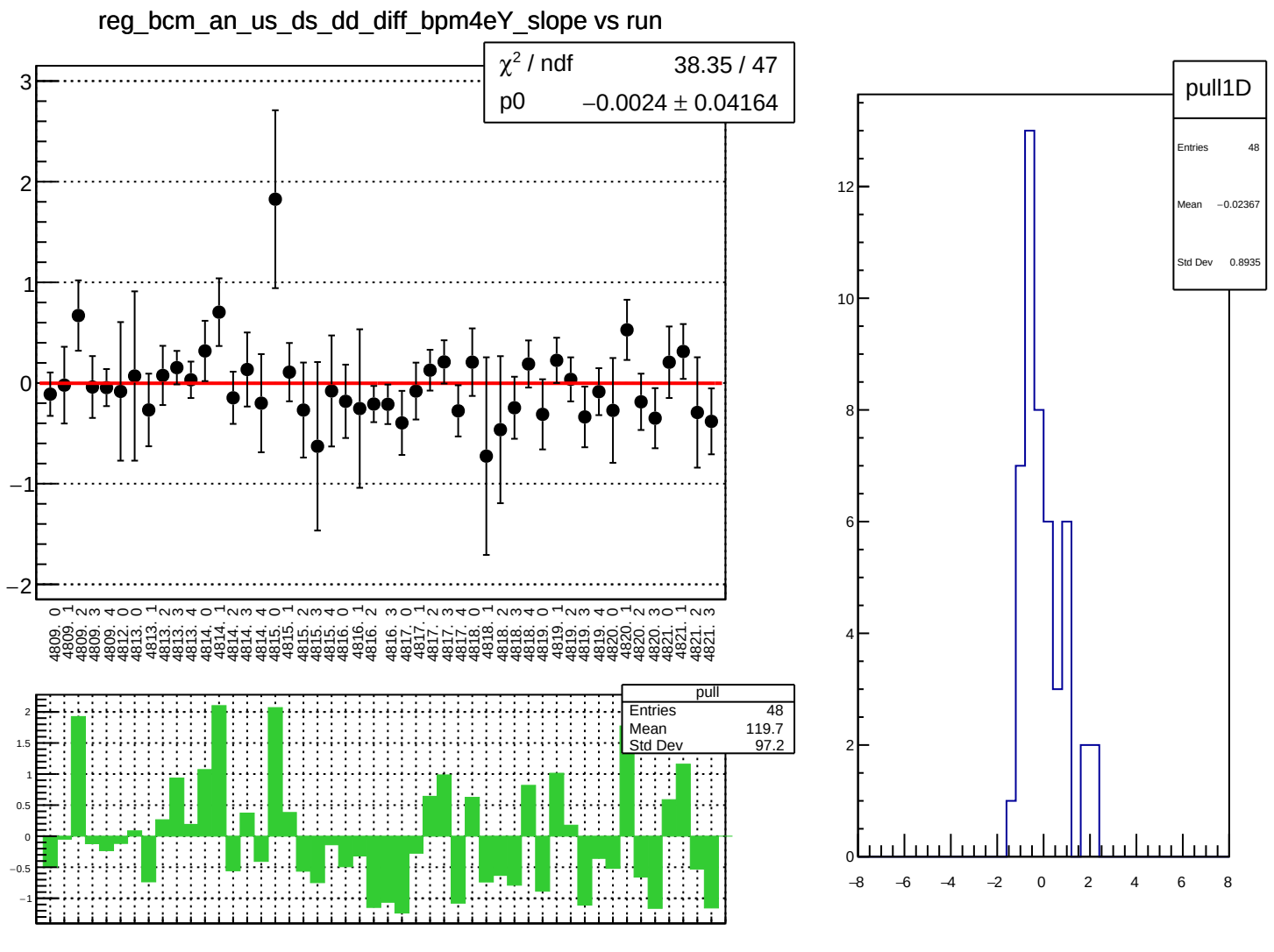

pull1D
Entries 48
Mean −0.06942
Std Dev 1.075

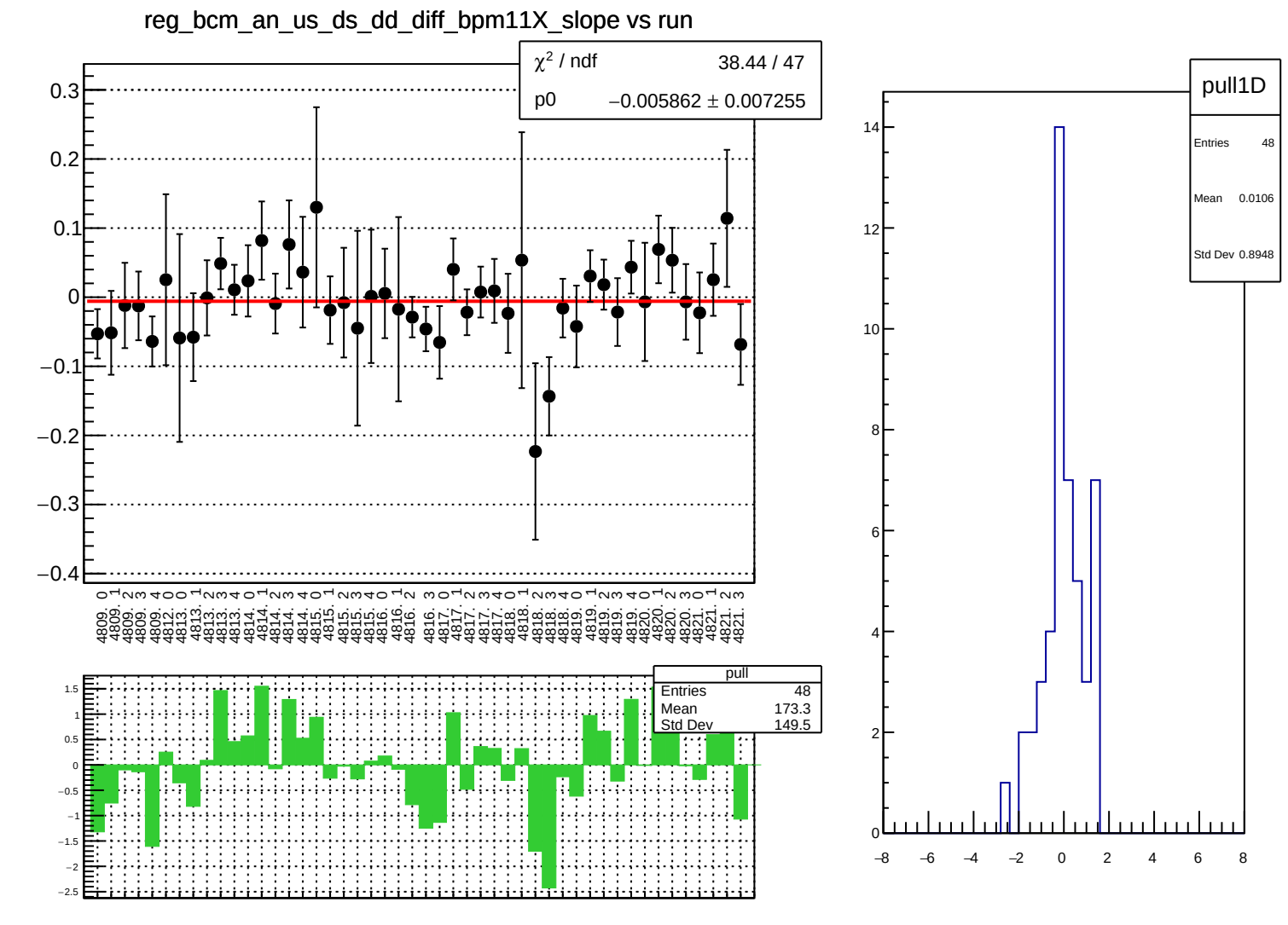

reg_bcm_an_us_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 36.32 / 47
p0 −0.005675 ± 0.03516
pull
Entries 48
Mean 122.6
Std Dev 98.55

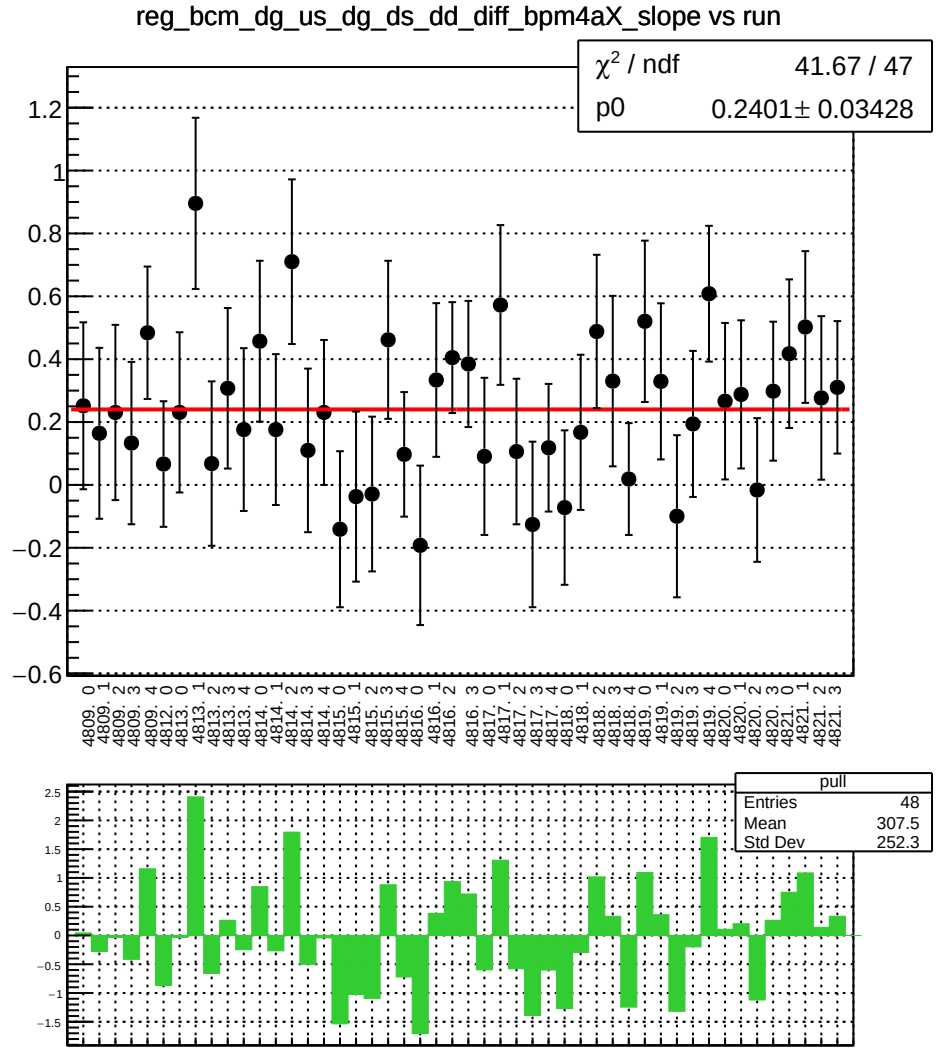

pull1D
Entries 48
Mean 0.02042
Std Dev 0.8697

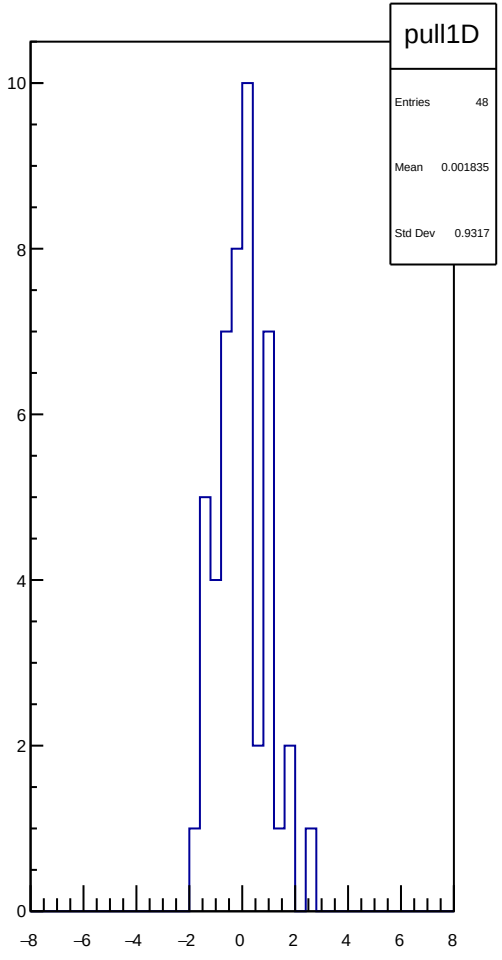

reg_bcm_an_us_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 55.69 / 47
p0 0.000592 ± 0.005627
pull
Entries 48
Mean −0.6396
Std Dev 9.211

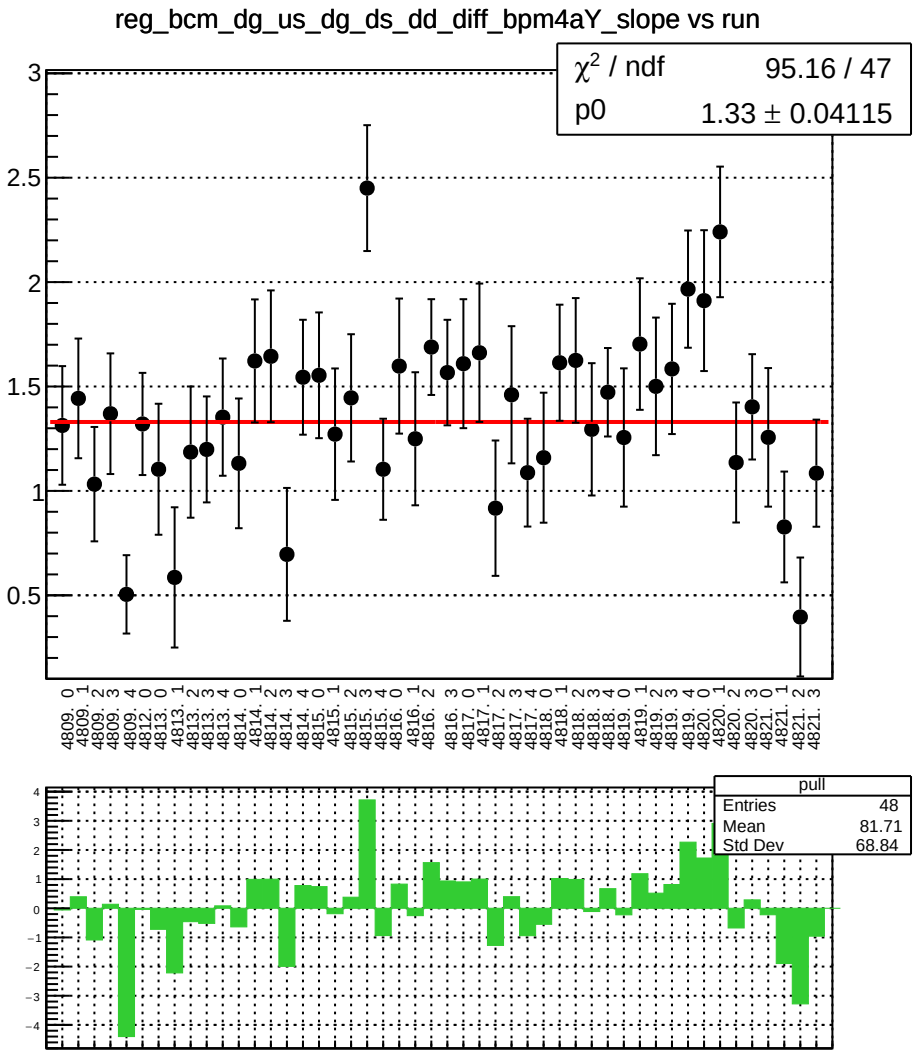

pull1D
Entries 48
Mean 0.0363
Std Dev 1.077

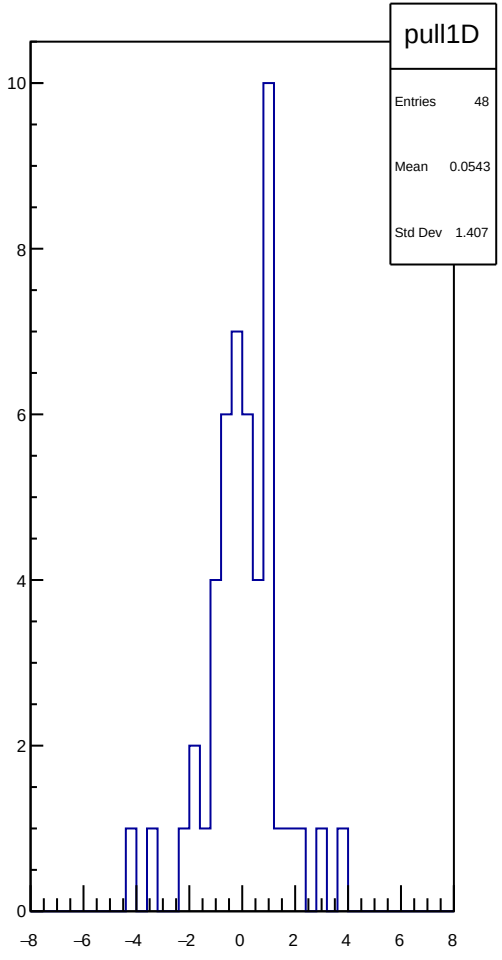

reg_bcm_an_us_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 38.35 / 47
p0 −0.0024 ± 0.04164
pull
Entries 48
Mean 119.7
Std Dev 97.2
pull1D
Entries 48
Mean −0.02367
Std Dev 0.8935

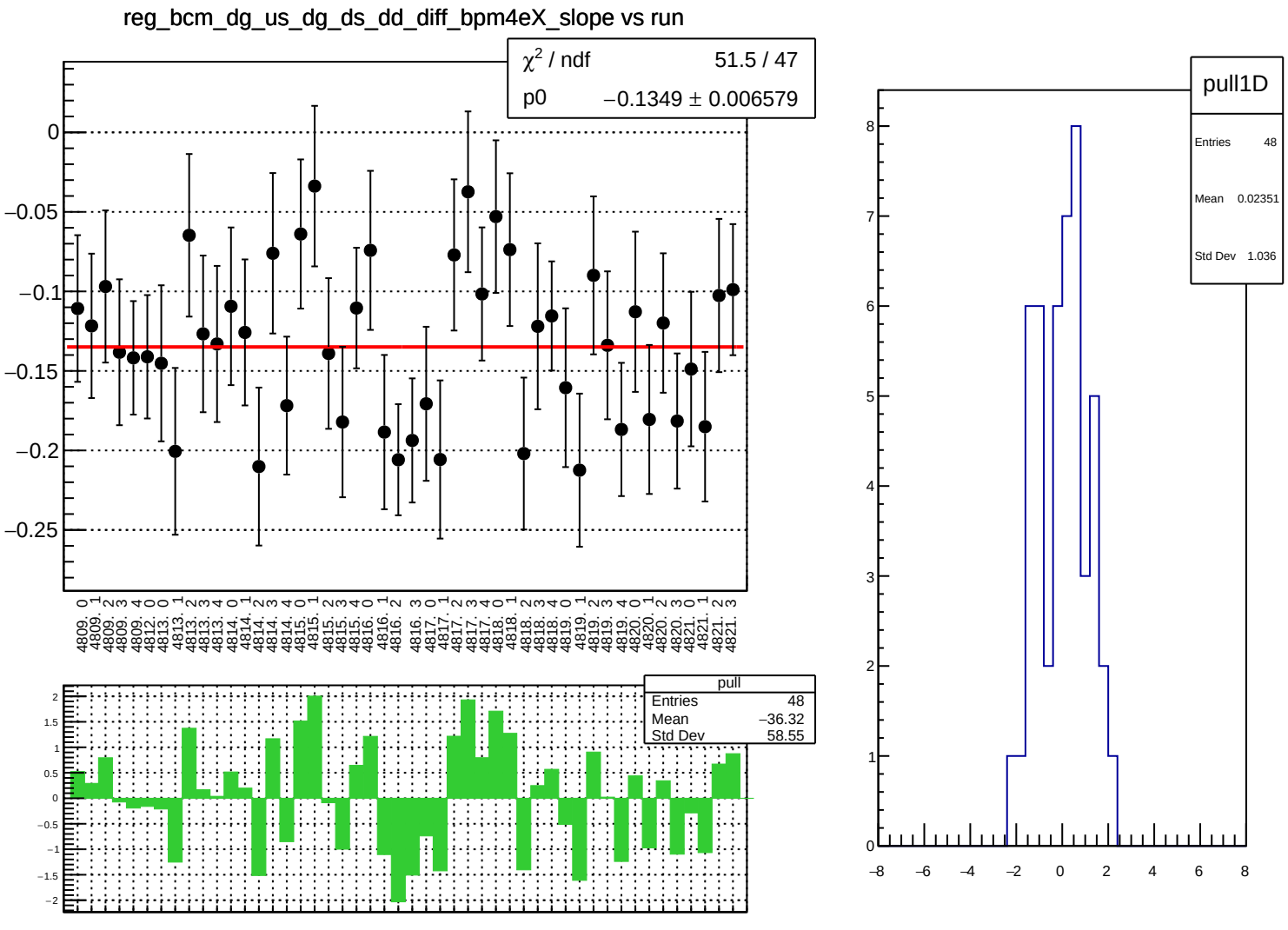

reg_bcm_an_us_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 38.44 / 47
p0 −0.005862 ± 0.007255
pull
Entries 48
Mean 173.3
Std Dev 149.5
pull1D
Entries 48
Mean 0.0106
Std Dev 0.8948

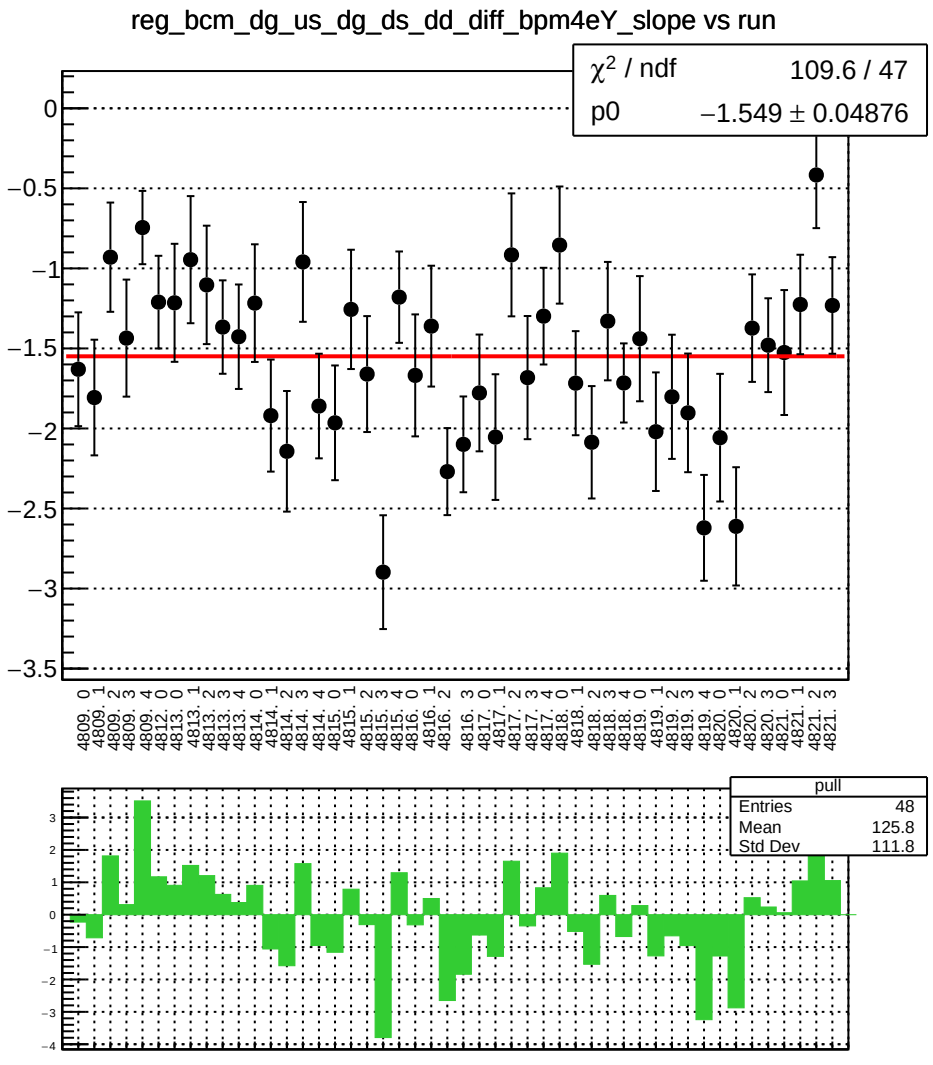

reg_bcm_dg_us_dg_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 41.67 / 47
p0 0.2401± 0.03428
pull
Entries 48
Mean 307.5
Std Dev 252.3

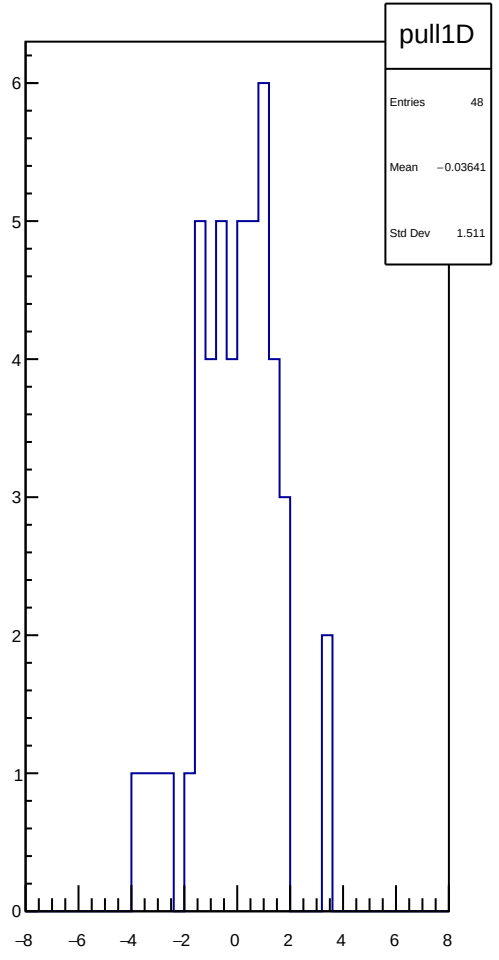

pull1D
Entries 48
Mean 0.001835
Std Dev 0.9317

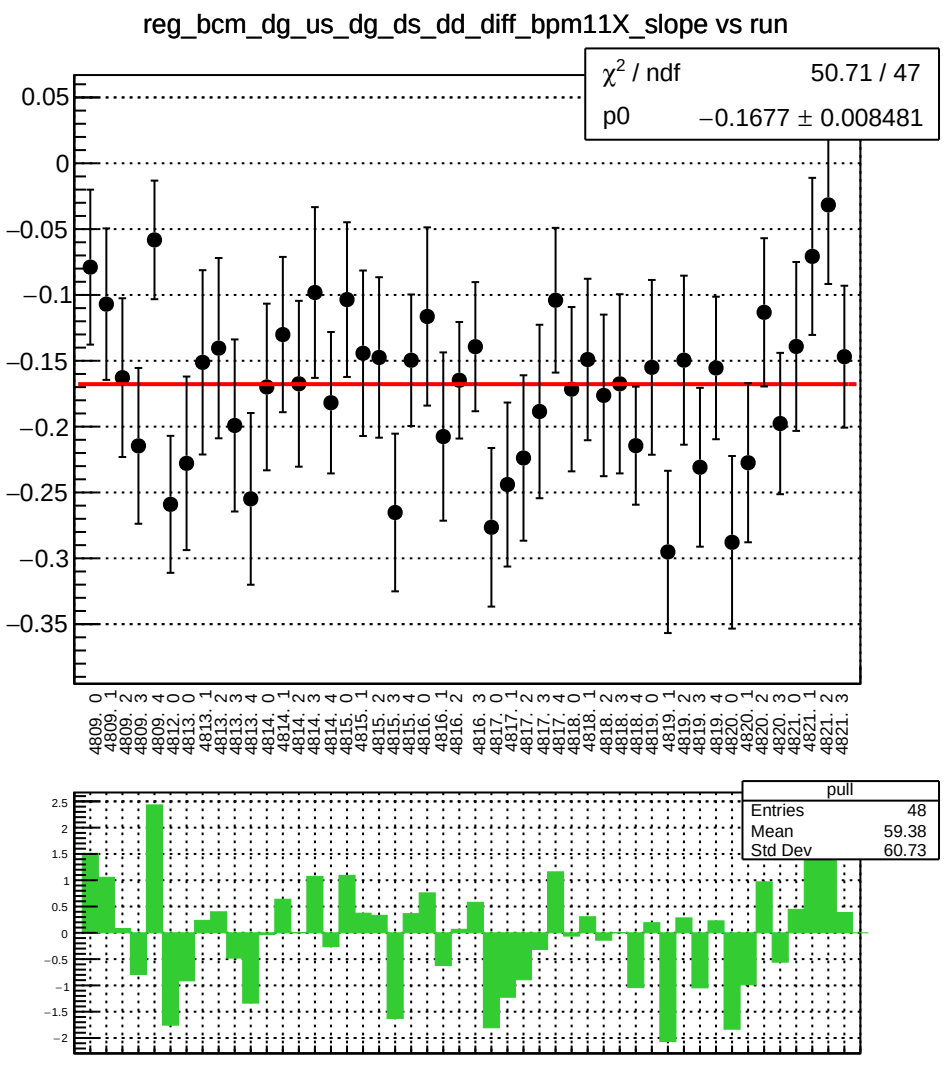

reg_bcm_dg_us_dg_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 95.16 / 47
p0 1.33 ± 0.04115
pull
Entries 48
Mean 81.71
Std Dev 68.84

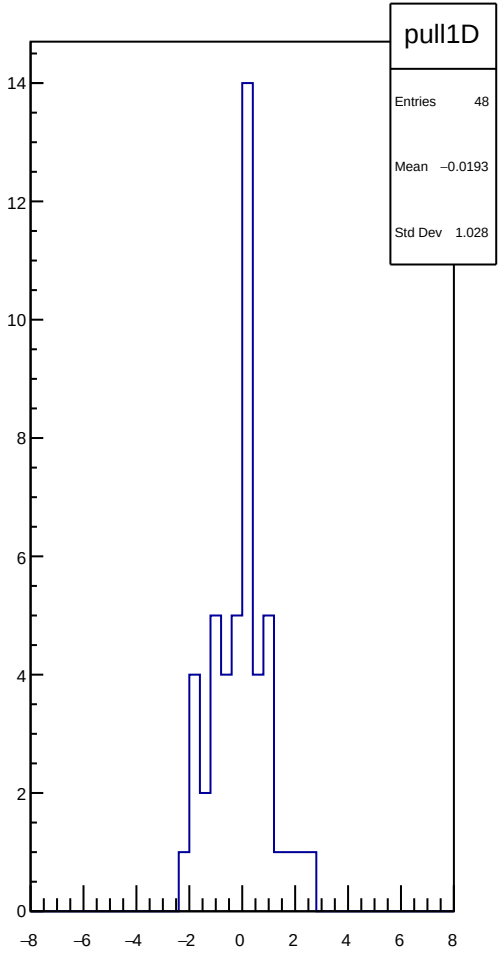

pull1D
Entries 48
Mean 0.0543
Std Dev 1.407

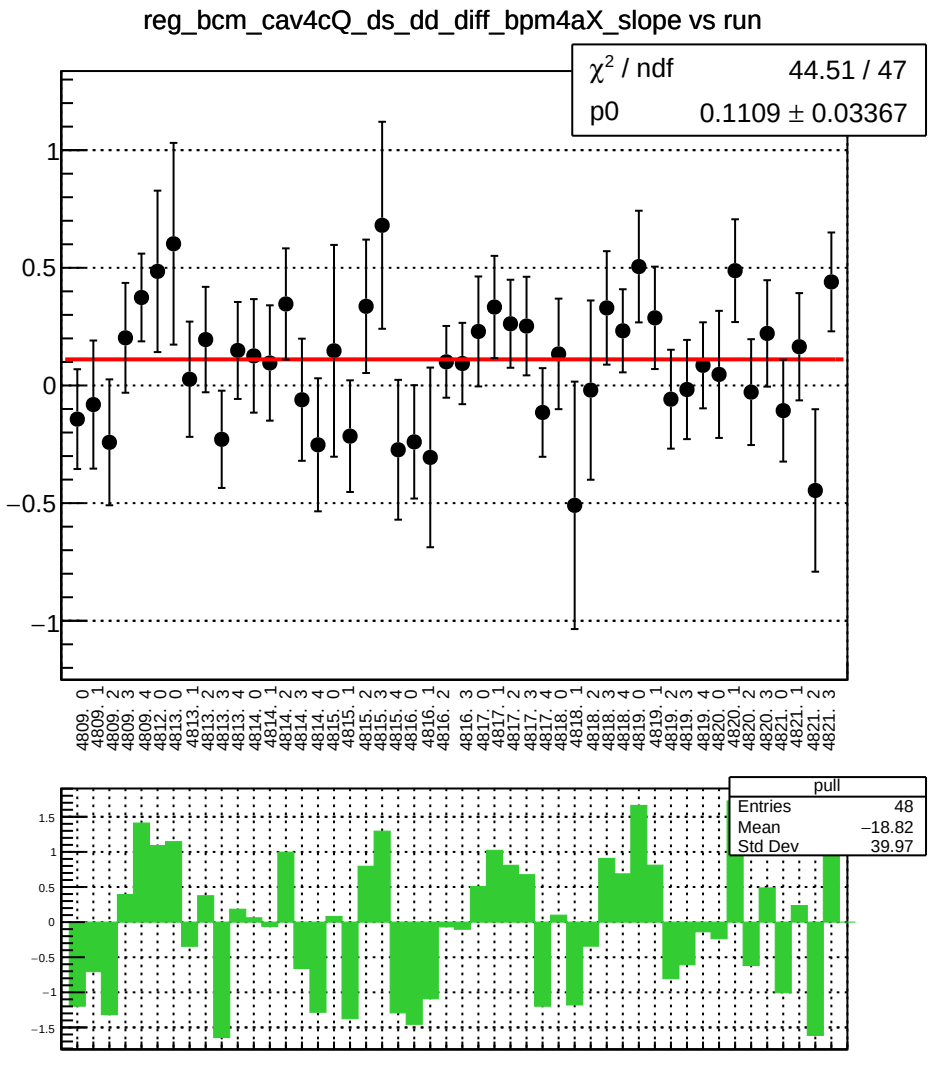

reg_bcm_dg_us_dg_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 51.5 / 47
p0 −0.1349 ± 0.006579
pull
Entries 48
Mean −36.32
Std Dev 58.55
pull1D
Entries 48
Mean 0.02351
Std Dev 1.036

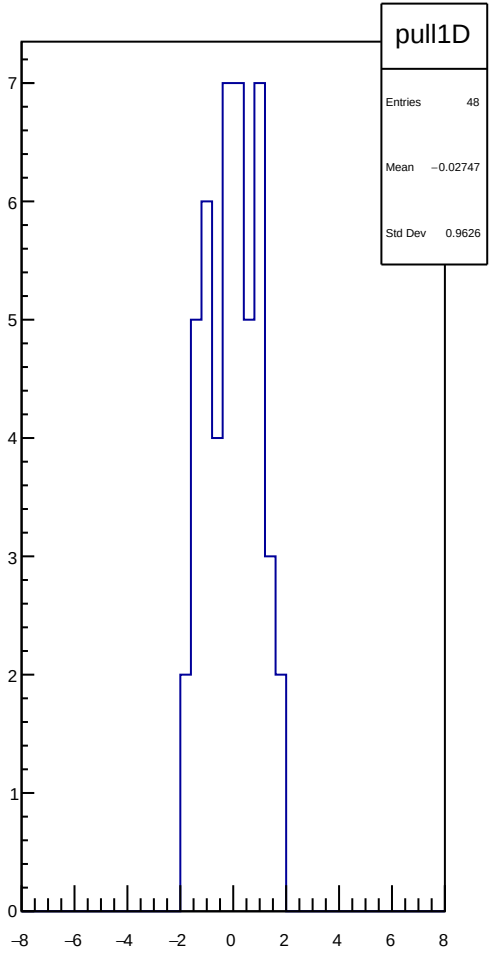

reg_bcm_dg_us_dg_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 109.6 / 47
p0 −1.549 ± 0.04876
pull
Entries 48
Mean 125.8
Std Dev 111.8

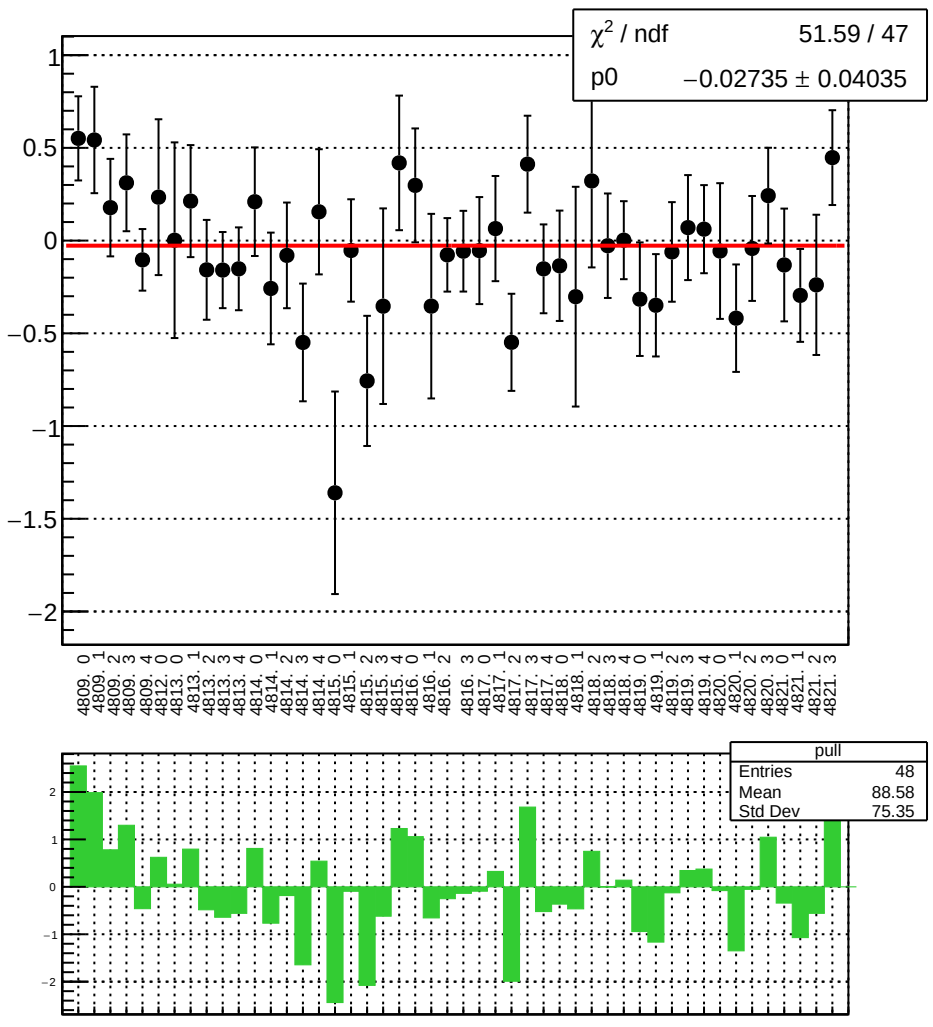

pull1D
Entries 48
Mean −0.03641
Std Dev 1.511

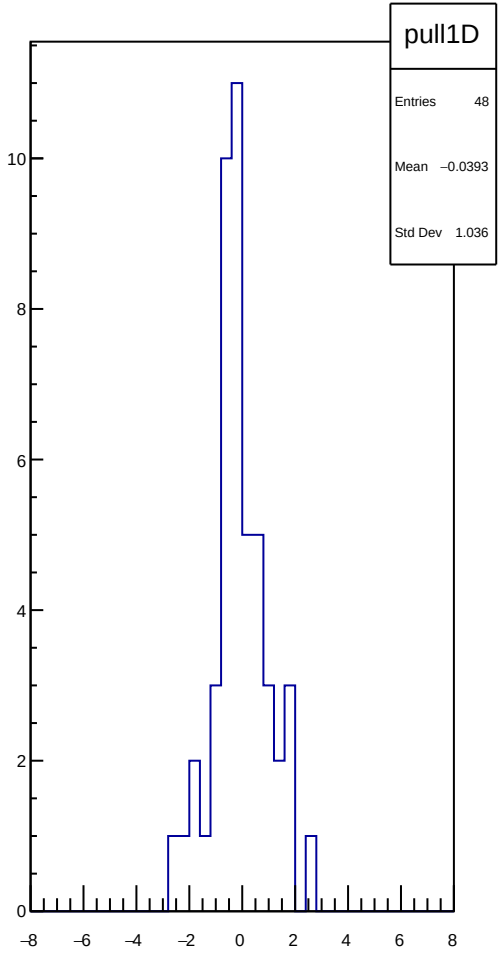

reg_bcm_dg_us_dg_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 50.71 / 47
p0 −0.1677 ± 0.008481
pull
Entries 48
Mean 59.38
Std Dev 60.73

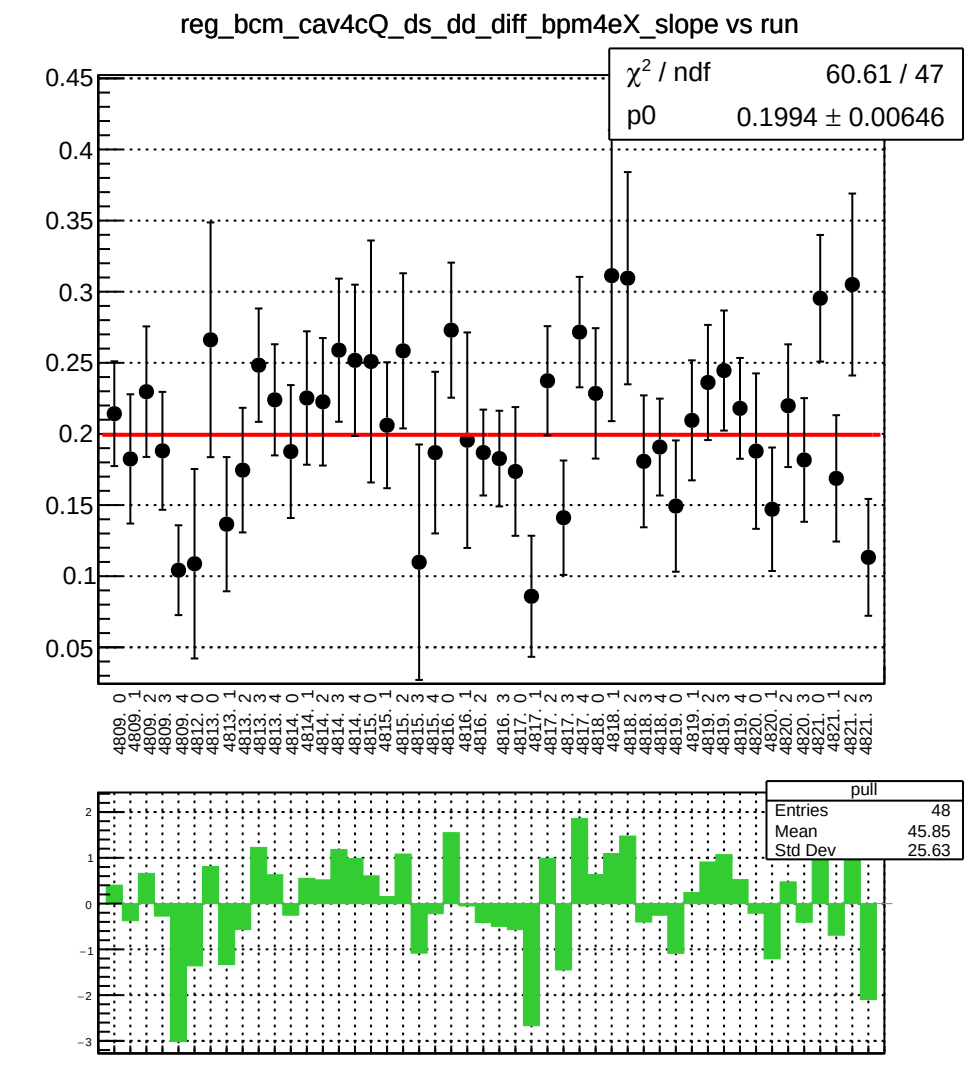

pull1D
Entries 48
Mean −0.0193
Std Dev 1.028

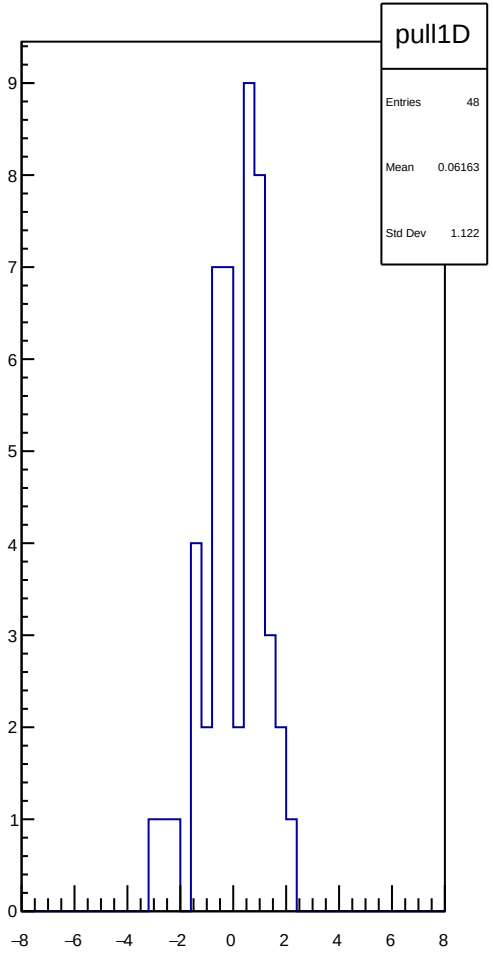

reg_bcm_cav4cQ_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 44.51 / 47
p0 0.1109 ± 0.03367
pull
Entries 48
Mean −18.82
Std Dev 39.97

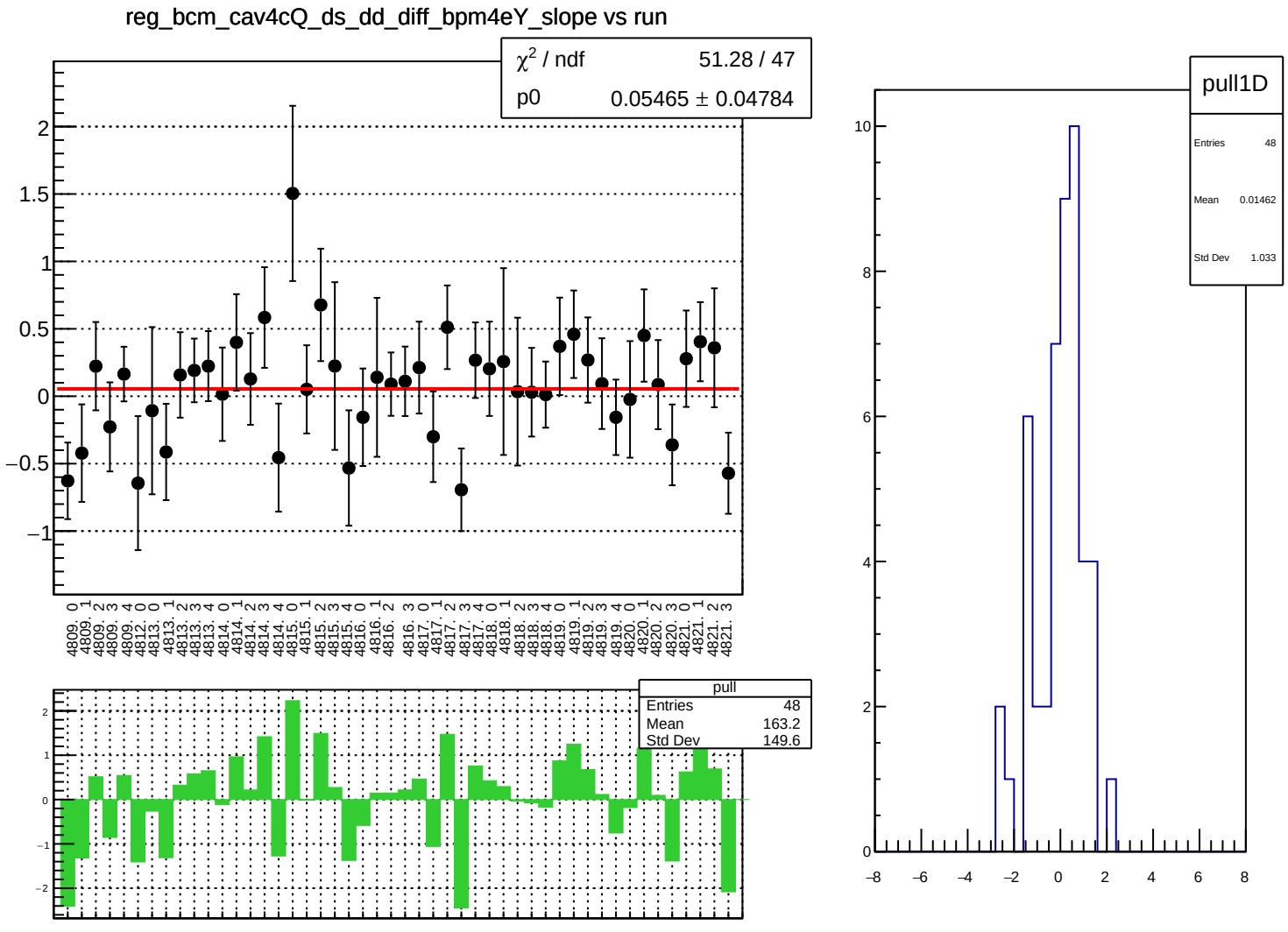

pull1D
Entries 48
Mean −0.02747
Std Dev 0.9626

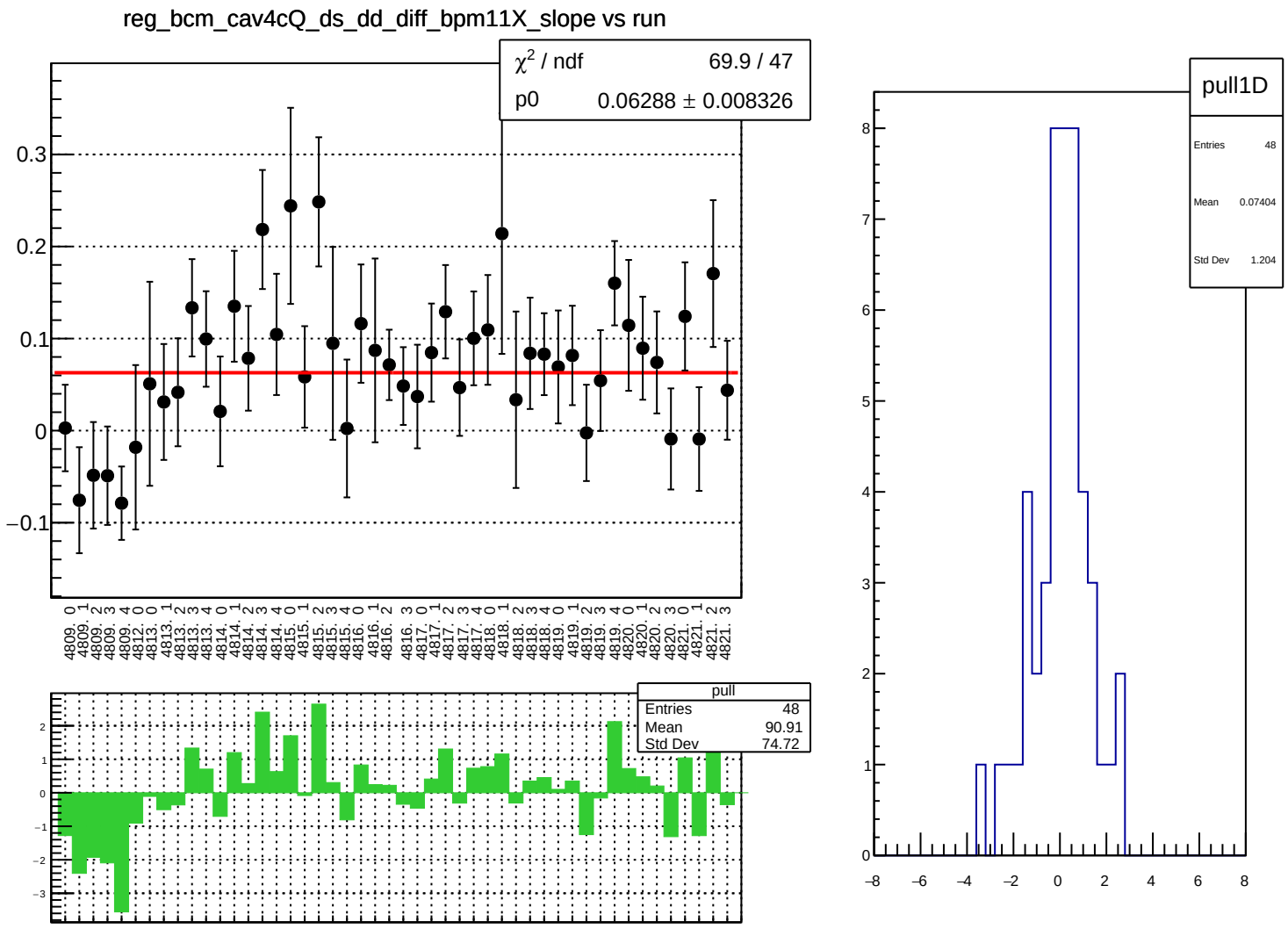

reg_bcm_cav4cQ_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 51.59 / 47
p0 −0.02735 ± 0.04035
pull
Entries 48
Mean 88.58
Std Dev 75.35

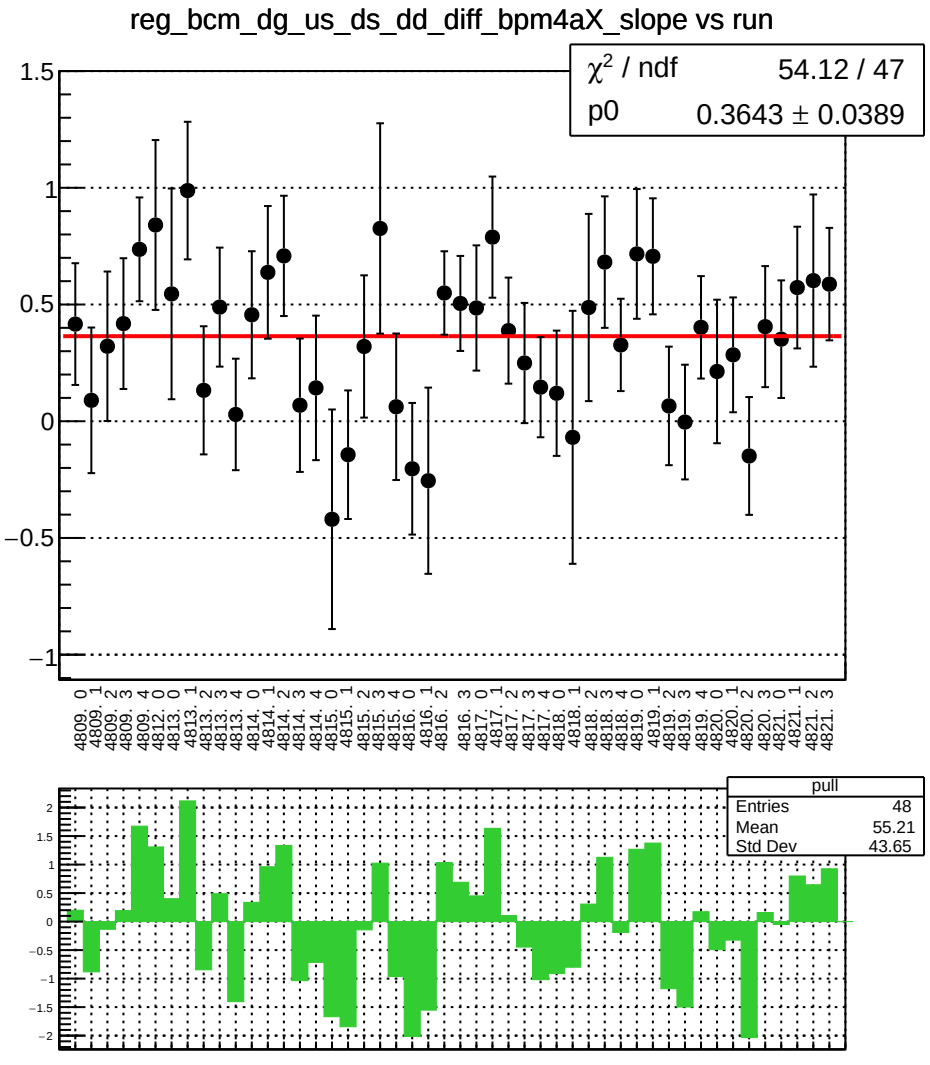

pull1D
Entries 48
Mean −0.0393
Std Dev 1.036

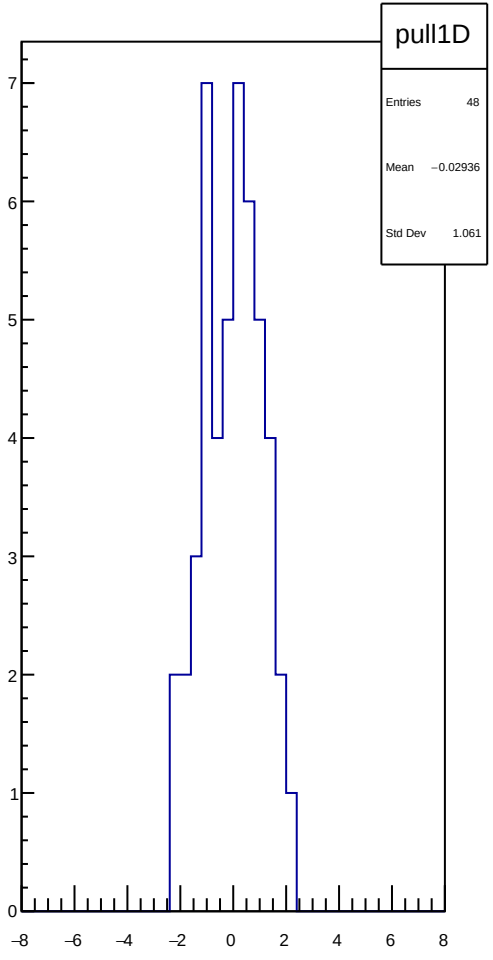

reg_bcm_cav4cQ_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 60.61 / 47
p0 0.1994 ± 0.00646
pull
Entries 48
Mean 45.85
Std Dev 25.63

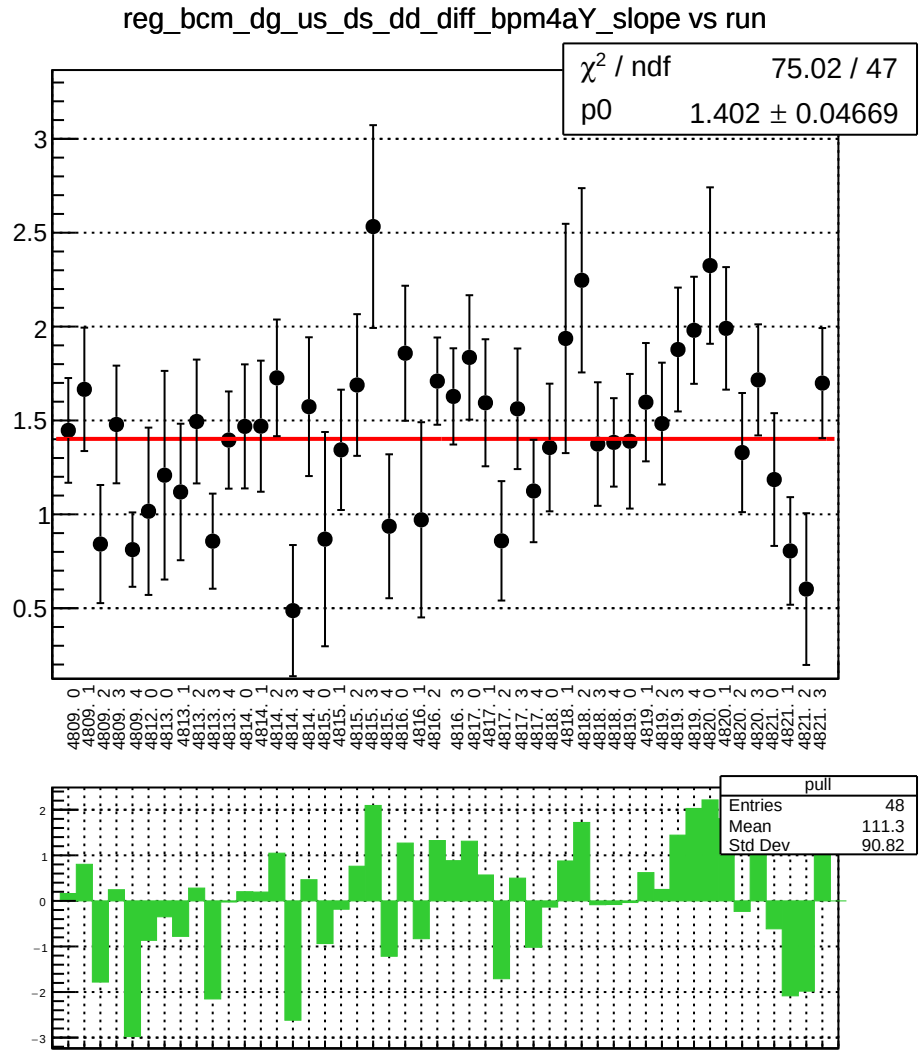

pull1D
Entries 48
Mean 0.06163
Std Dev 1.122

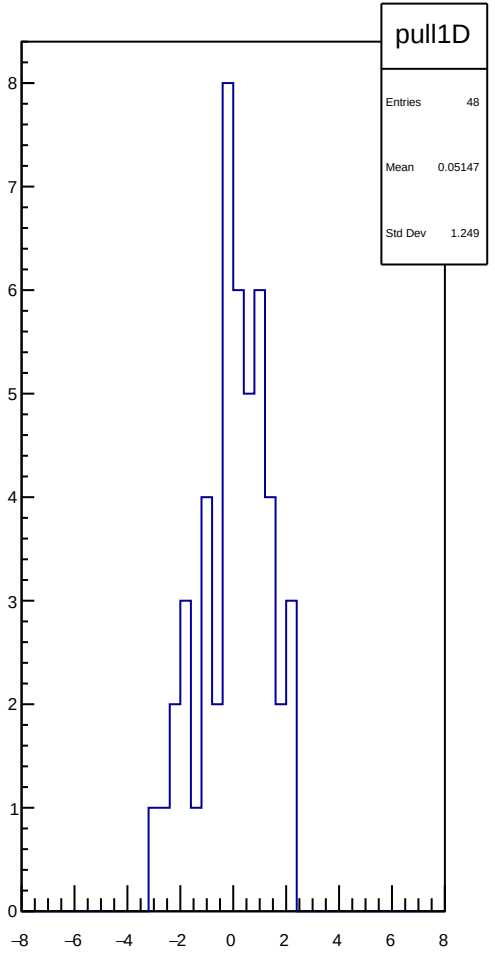

reg_bcm_cav4cQ_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 51.28 / 47
p0 0.05465 ± 0.04784
pull
Entries 48
Mean 163.2
Std Dev 149.6
pull1D
Entries 48
Mean 0.01462
Std Dev 1.033

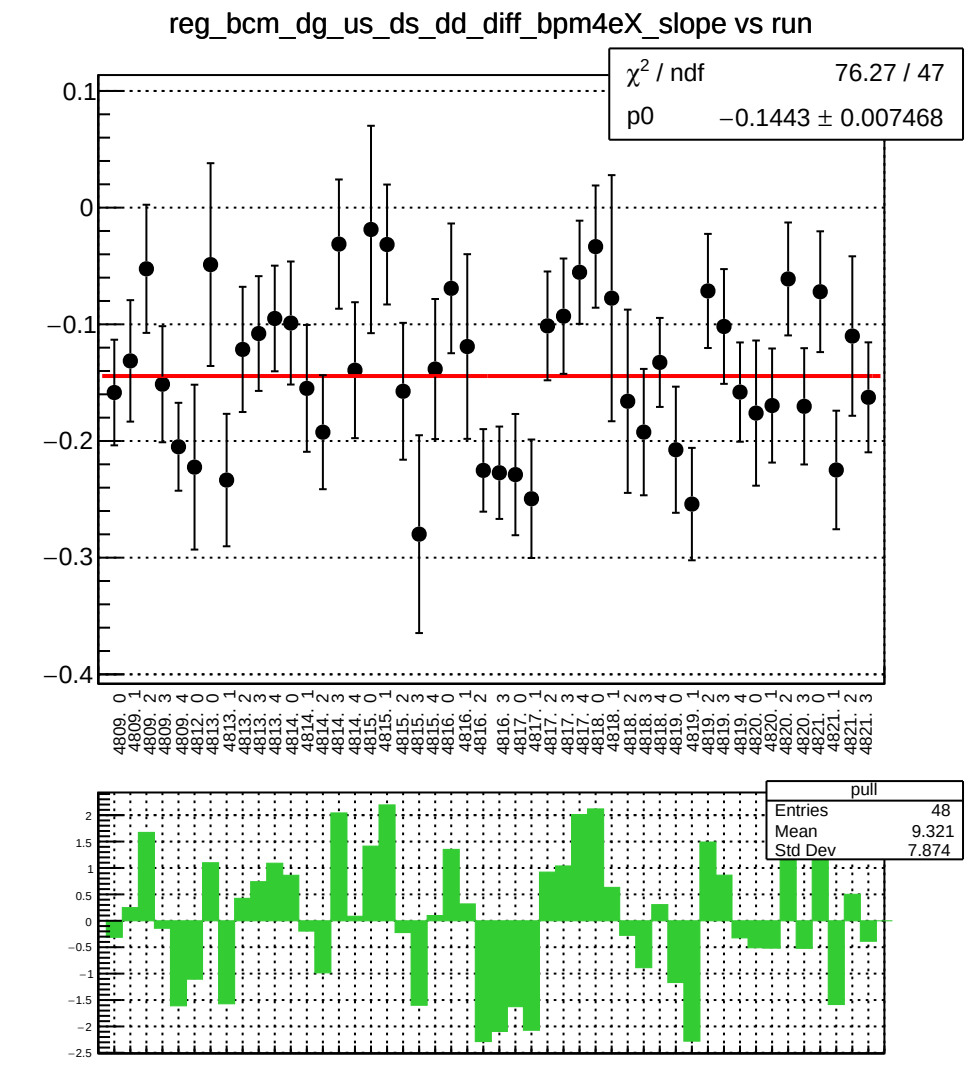

reg_bcm_cav4cQ_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 69.9 / 47
p0 0.06288 ± 0.008326
0.3
0.2
0.1
0
−0.1
4809. 0
4809. 1
4809. 2
4809. 3
4809. 4
4812. 0
4813. 1
4813. 2
4813. 3
4813. 4
4814. 0
4814. 1
4814. 2
4814. 3
4814. 4
4815. 0
4815. 1
4815. 2
4815. 3
4815. 4
4816. 0
4816. 1
4816. 2
4816. 3
4817. 0
4817. 1
4817. 2
4817. 3
4817. 4
4818. 0
4818. 1
4818. 2
4818. 3
4818. 4
4819. 0
4819. 1
4819. 2
4819. 3
4819. 4
4820. 0
4820. 1
4820. 2
4820. 3
4821. 0
4821. 1
4821. 2
4821. 3
pull
Entries 48
Mean 90.91
Std Dev 74.72
2
1
0
−1
−2
−3
pull1D
Entries 48
Mean 0.07404
Std Dev 1.204
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

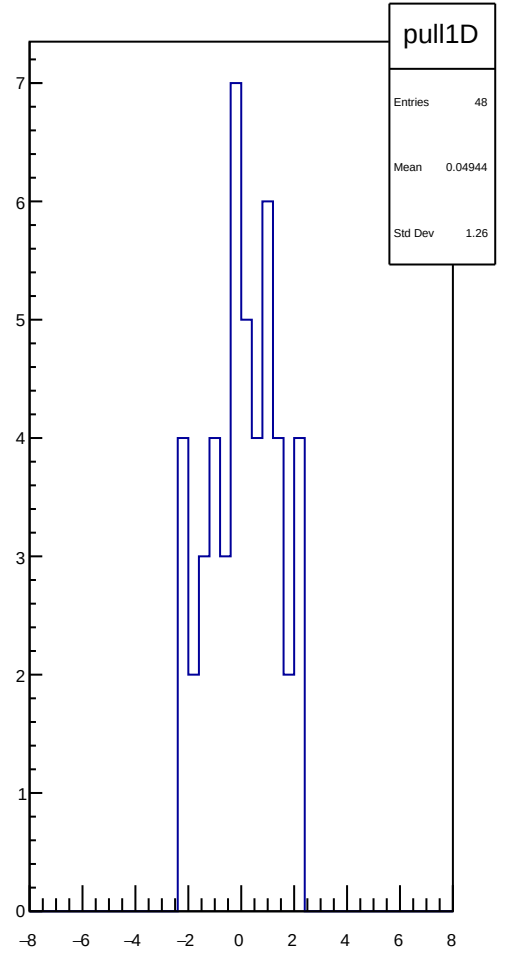

reg_bcm_dg_us_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 54.12 / 47
p0 0.3643 ± 0.0389
pull
Entries 48
Mean 55.21
Std Dev 43.65

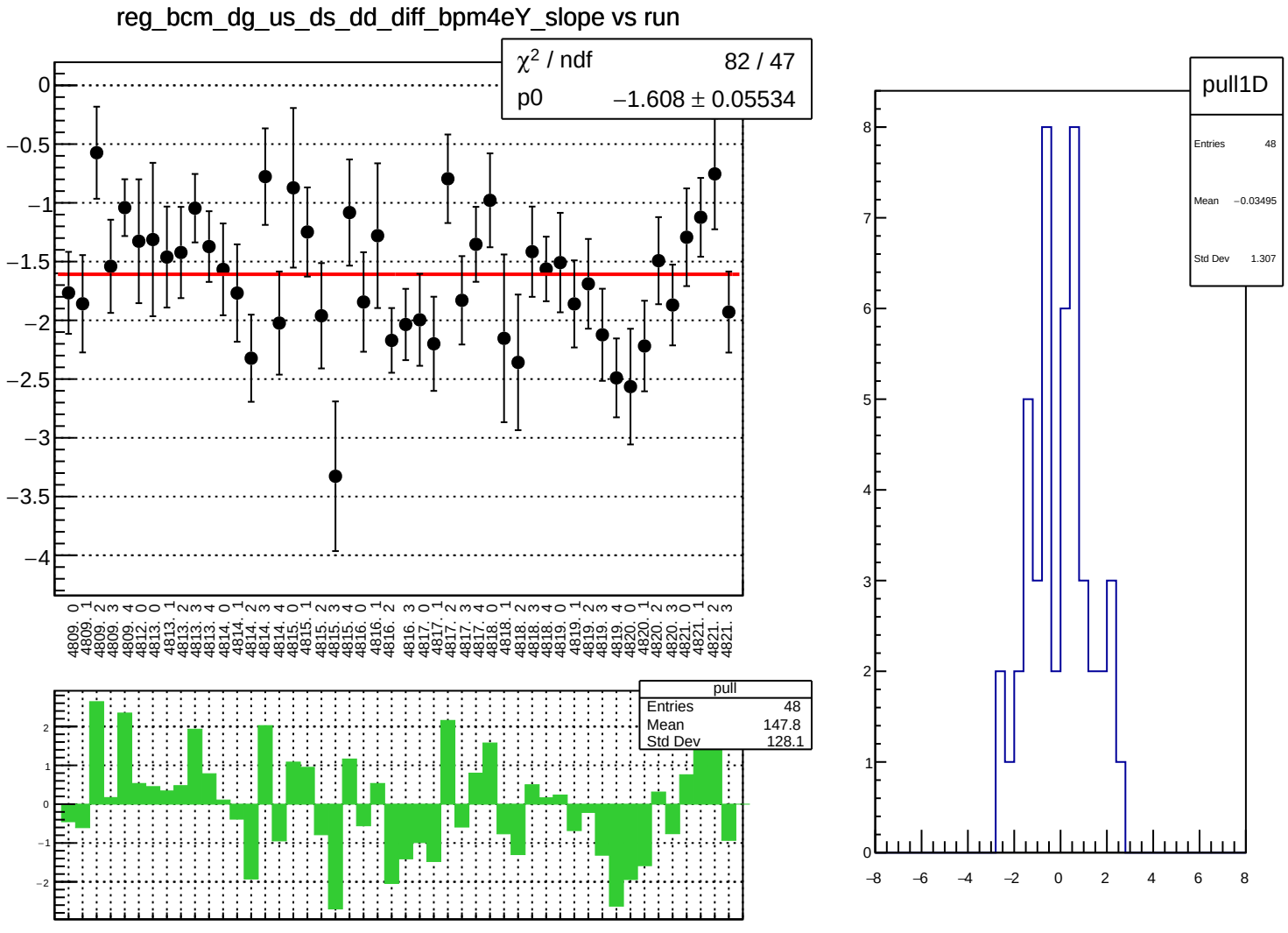

pull1D
Entries 48
Mean −0.02936
Std Dev 1.061

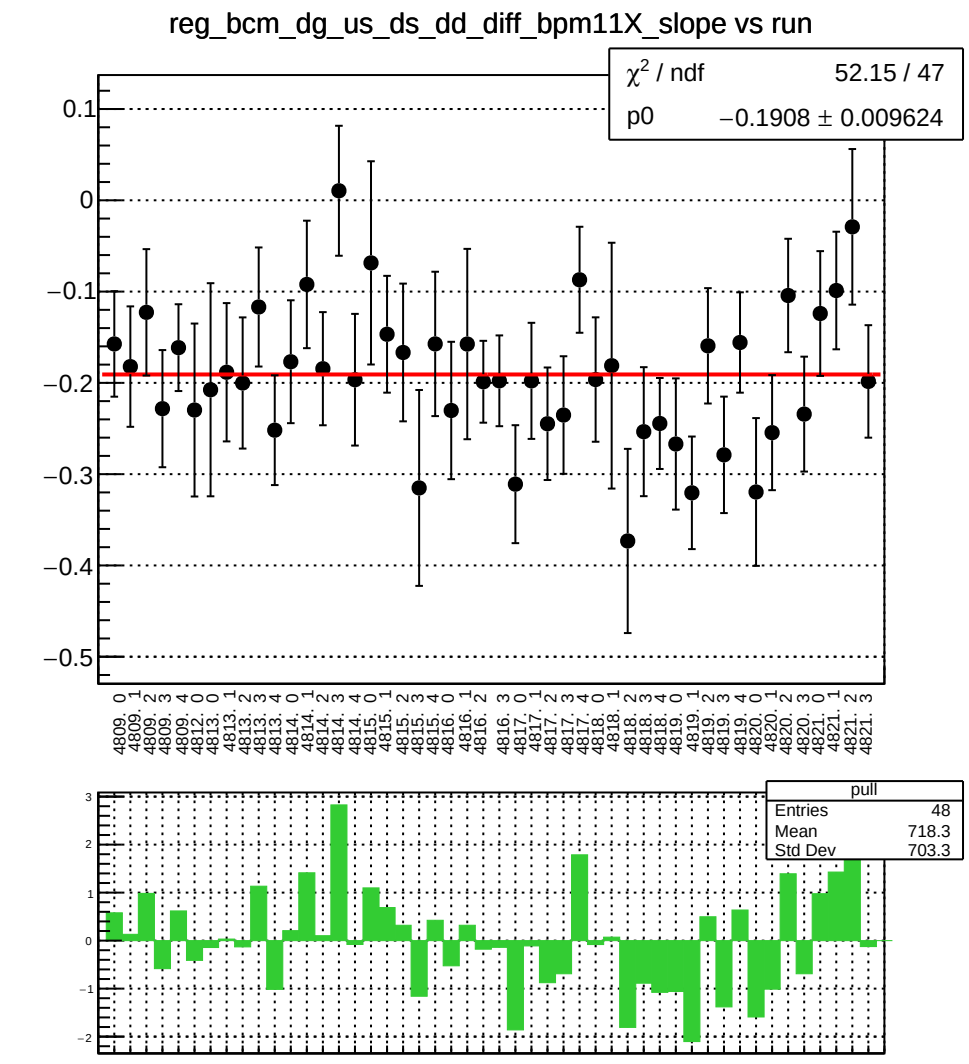

reg_bcm_dg_us_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 75.02 / 47
p0 1.402 ± 0.04669
pull
Entries 48
Mean 111.3
Std Dev 90.82

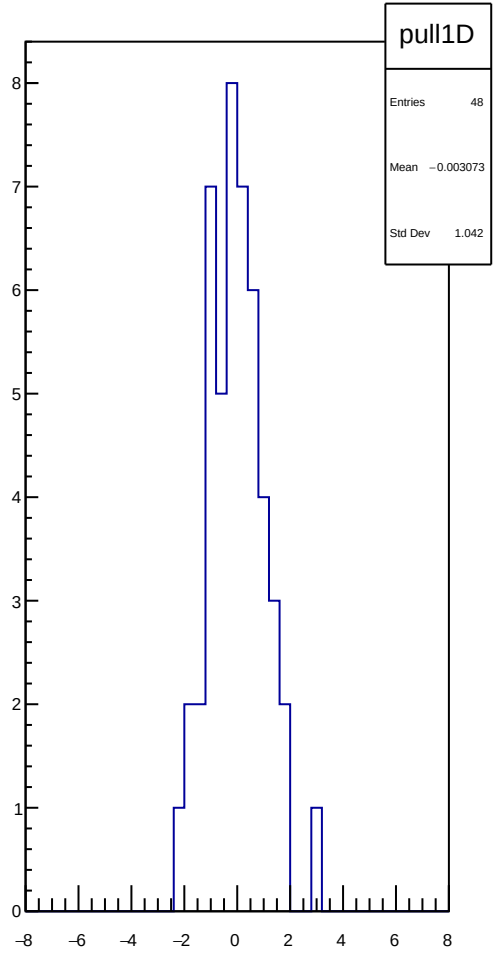

pull1D
Entries 48
Mean 0.05147
Std Dev 1.249

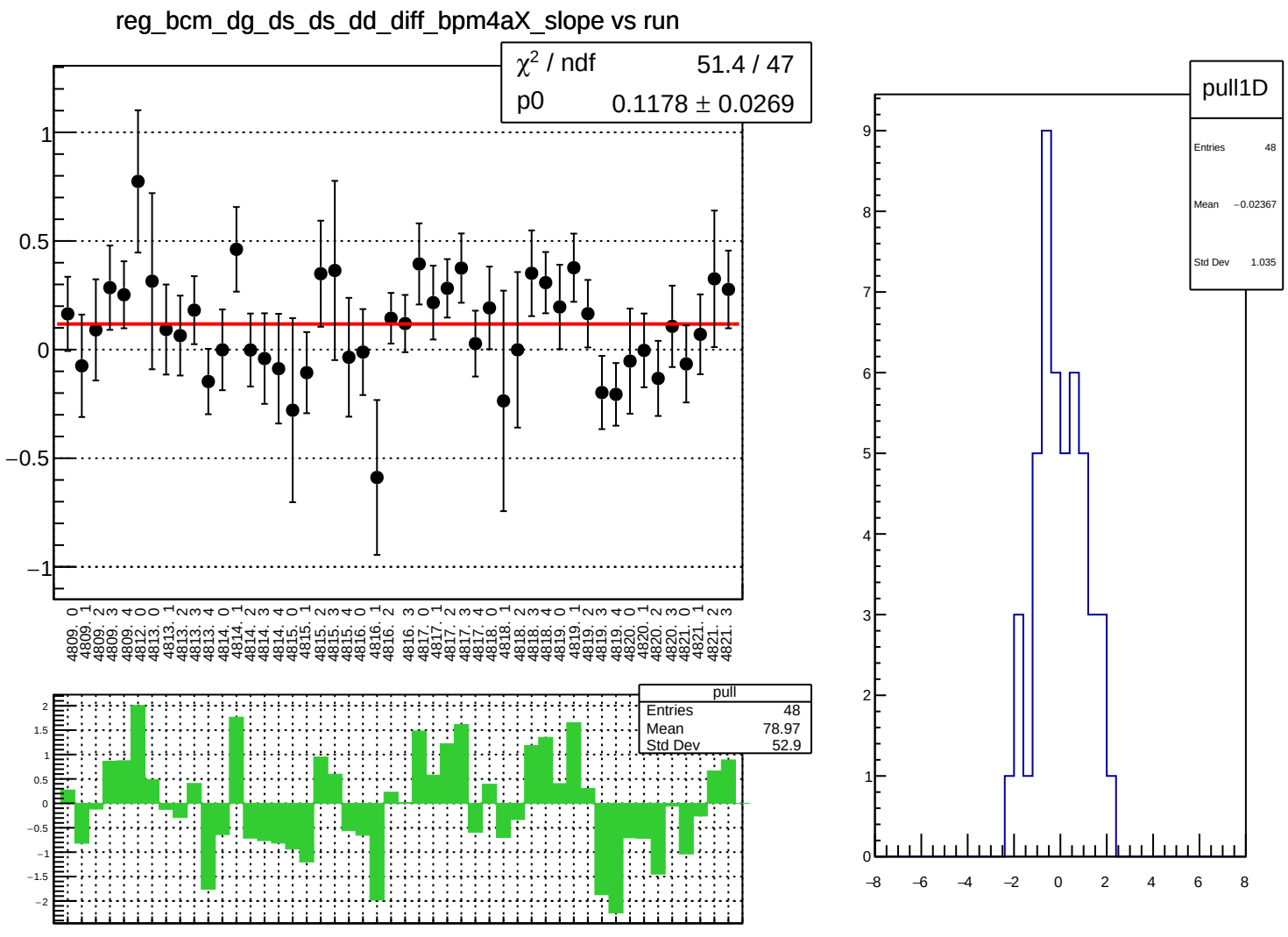

reg_bcm_dg_us_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 76.27 / 47
p0 −0.1443 ± 0.007468
pull
Entries 48
Mean 9.321
Std Dev 7.874

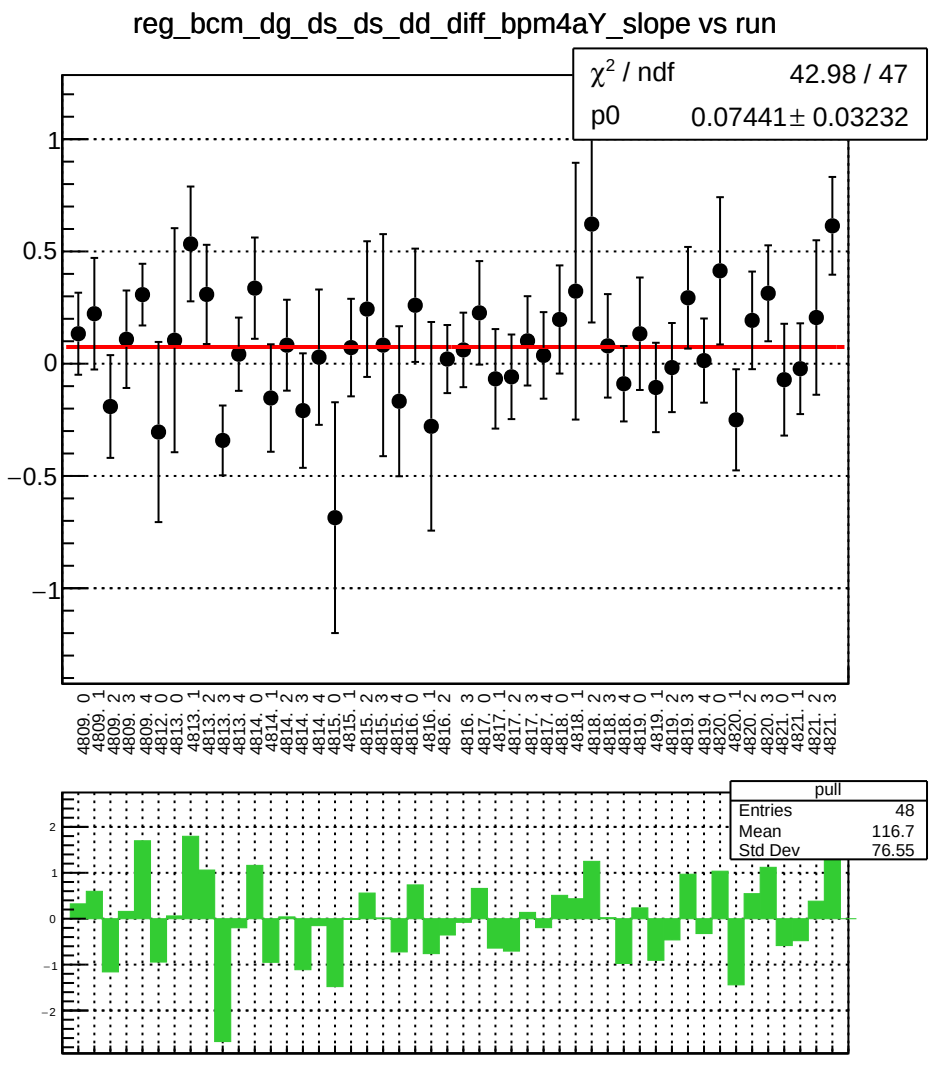

pull1D
Entries 48
Mean 0.04944
Std Dev 1.26

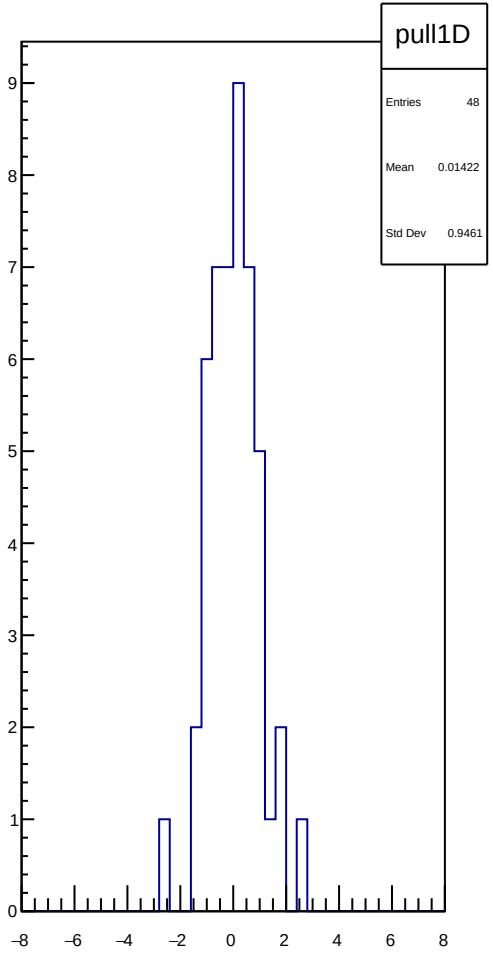

reg_bcm_dg_us_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 82 / 47
p0 −1.608 ± 0.05534
pull
Entries 48
Mean 147.8
Std Dev 128.1
pull1D
Entries 48
Mean −0.03495
Std Dev 1.307

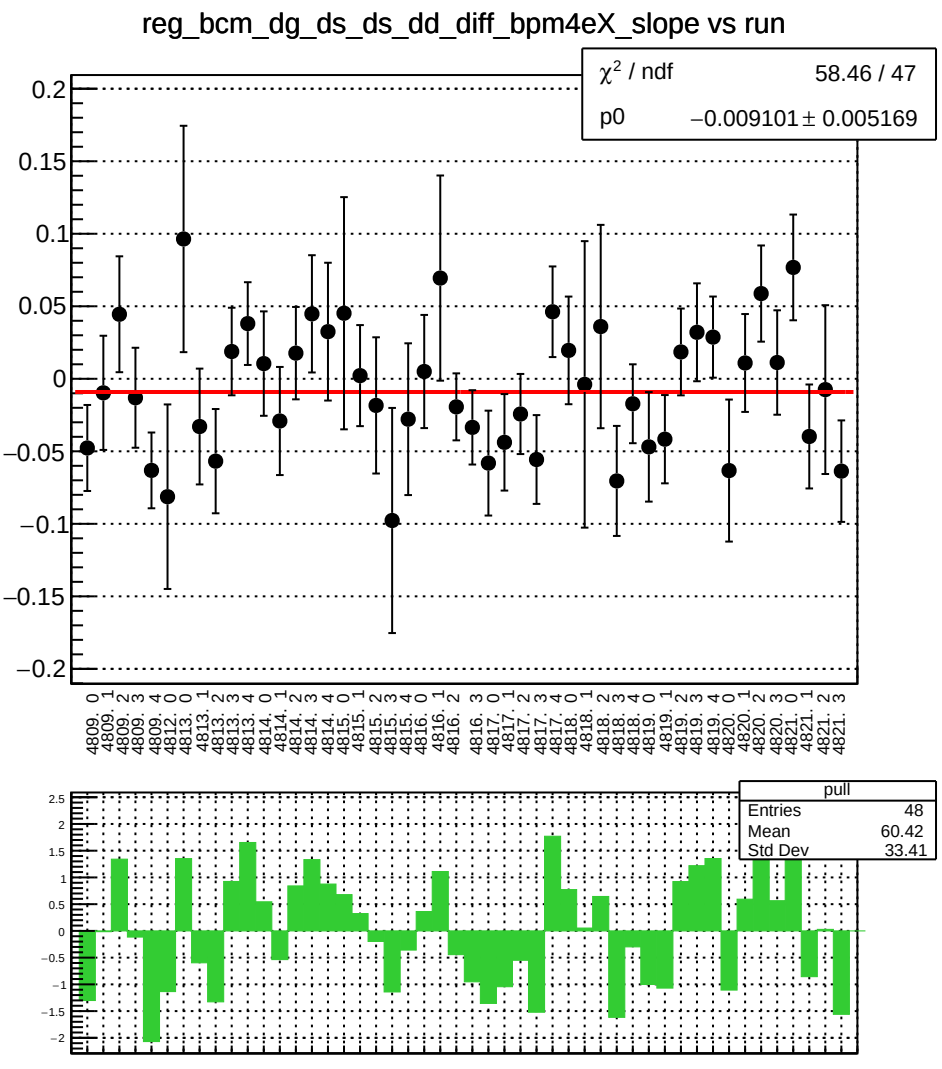

reg_bcm_dg_us_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 52.15 / 47
p0 −0.1908 ± 0.009624
pull
Entries 48
Mean 718.3
Std Dev 703.3

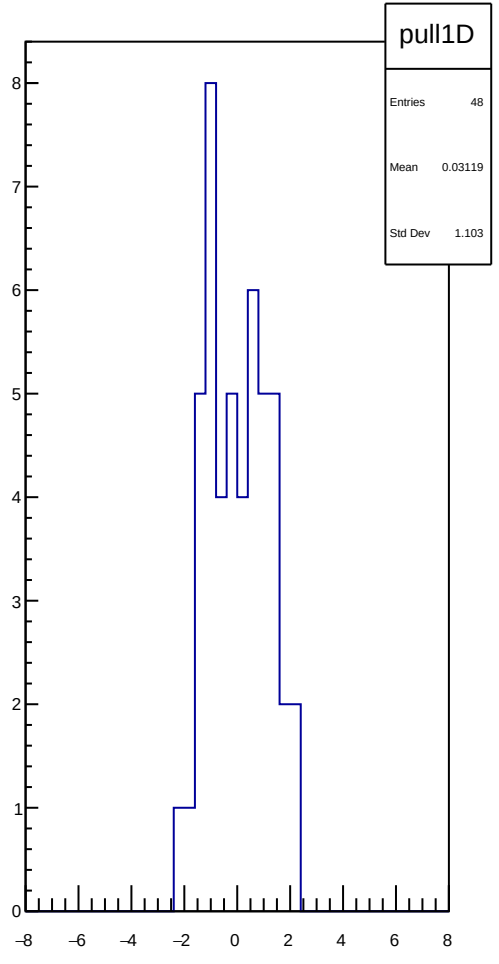

pull1D
Entries 48
Mean −0.003073
Std Dev 1.042

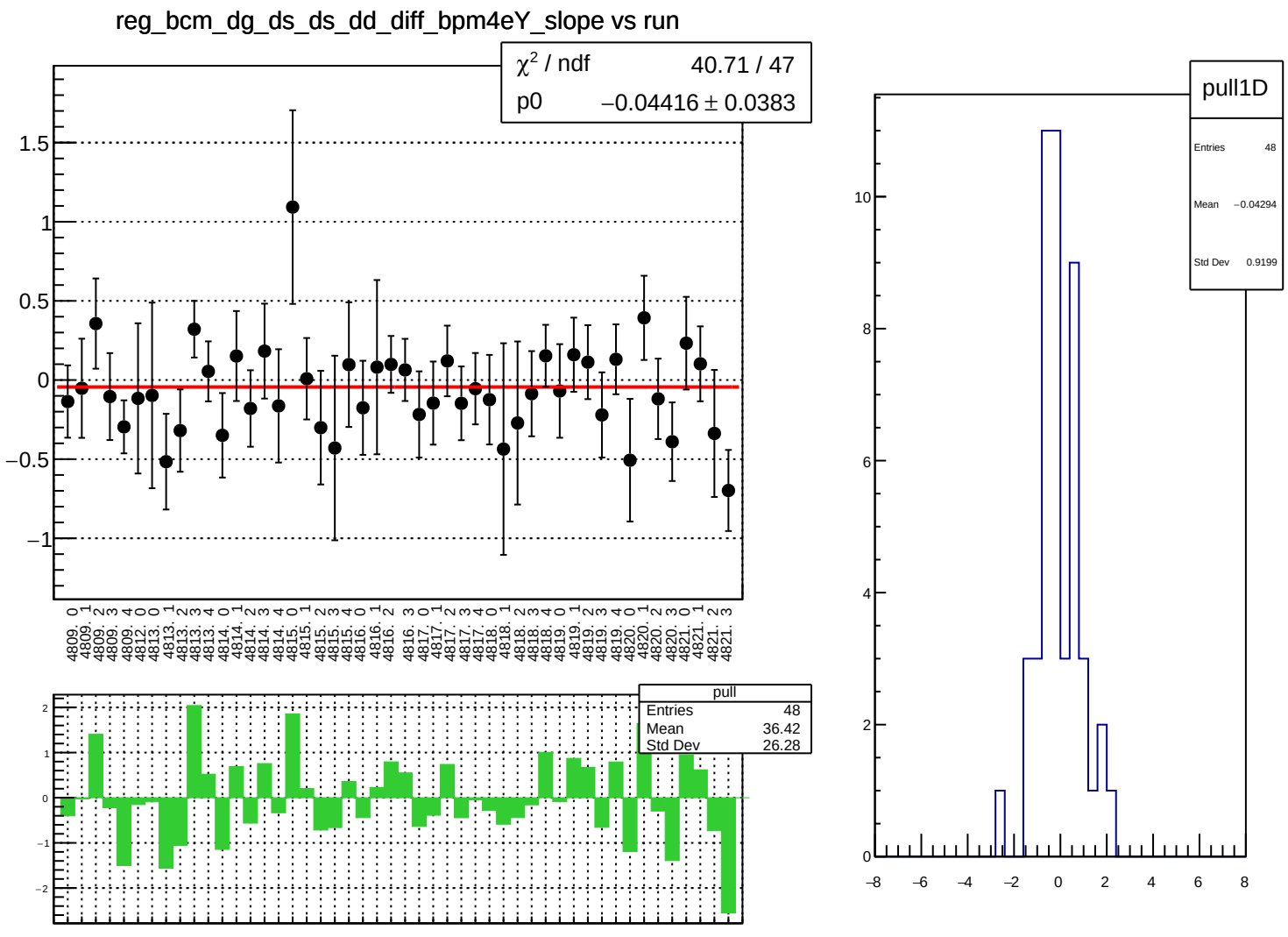

reg_bcm_dg_ds_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 51.4 / 47
p0 0.1178 ± 0.0269
pull
Entries 48
Mean 78.97
Std Dev 52.9
pull1D
Entries 48
Mean −0.02367
Std Dev 1.035

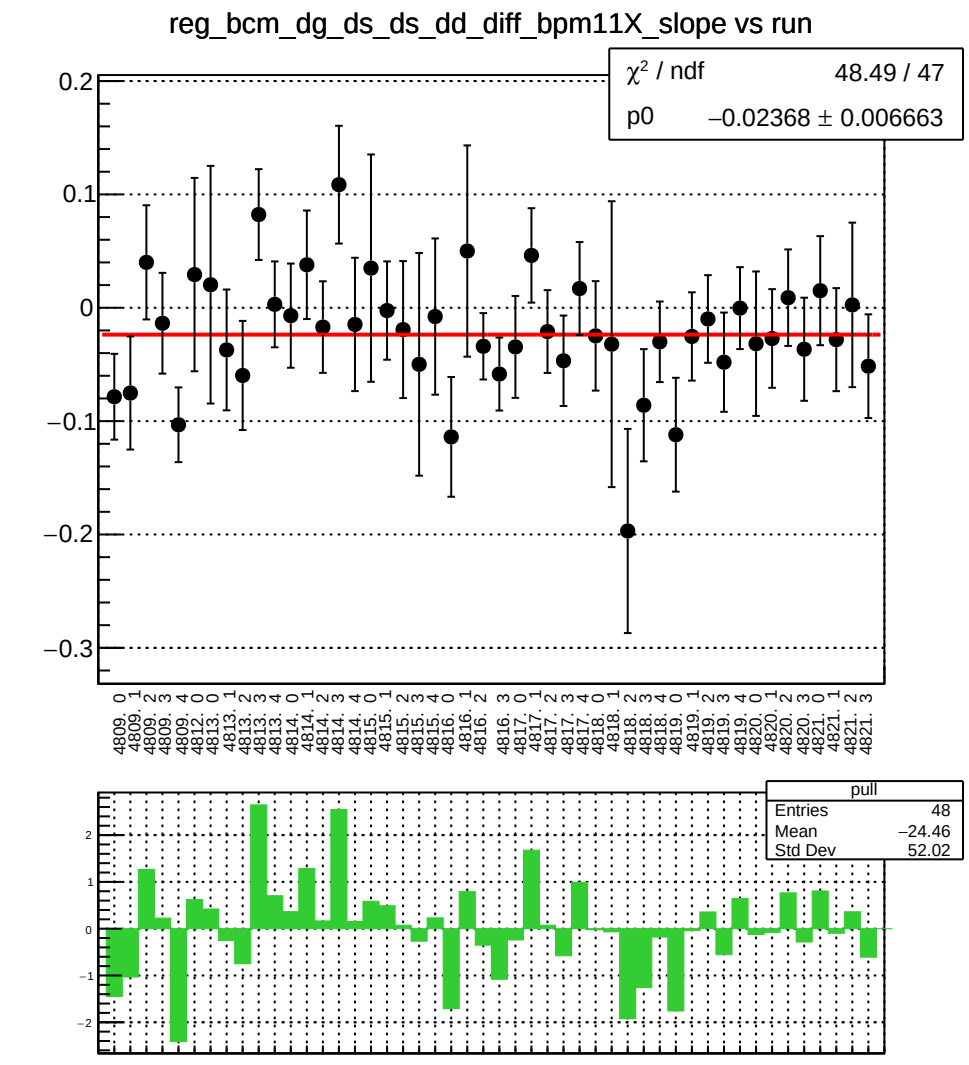

reg_bcm_dg_ds_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 42.98 / 47
p0 0.07441 ± 0.03232
pull
Entries 48
Mean 116.7
Std Dev 76.55

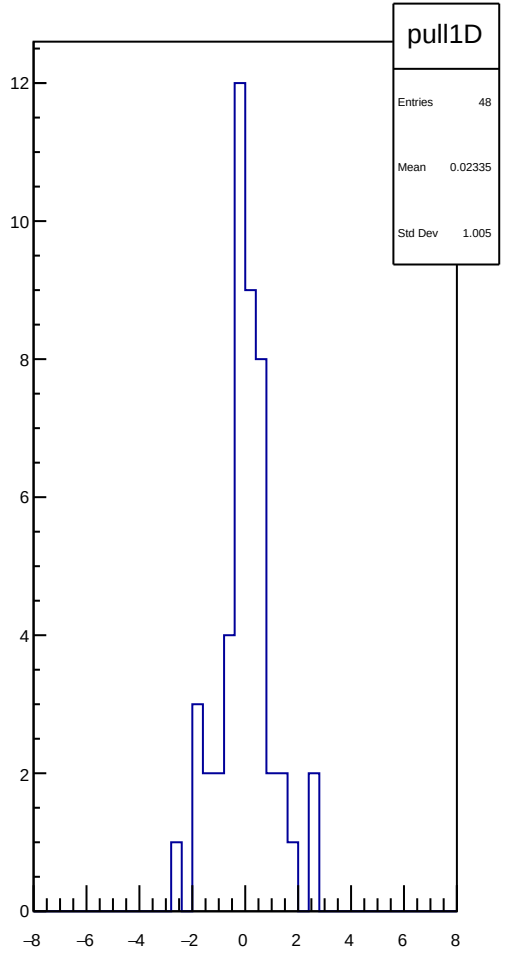

pull1D
Entries 48
Mean 0.01422
Std Dev 0.9461


reg_bcm_dg_ds_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 58.46 / 47
p0 −0.009101 ± 0.005169
pull
Entries 48
Mean 60.42
Std Dev 33.41


pull1D
Entries 48
Mean 0.03119
Std Dev 1.103


reg_bcm_dg_ds_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 40.71 / 47
p0 −0.04416 ± 0.0383
pull
Entries 48
Mean 36.42
Std Dev 26.28
pull1D
Entries 48
Mean −0.04294
Std Dev 0.9199


reg_bcm_dg_ds_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 48.49 / 47
p0 −0.02368 ± 0.006663
pull
Entries 48
Mean −24.46
Std Dev 52.02


pull1D
Entries 48
Mean 0.02335
Std Dev 1.005