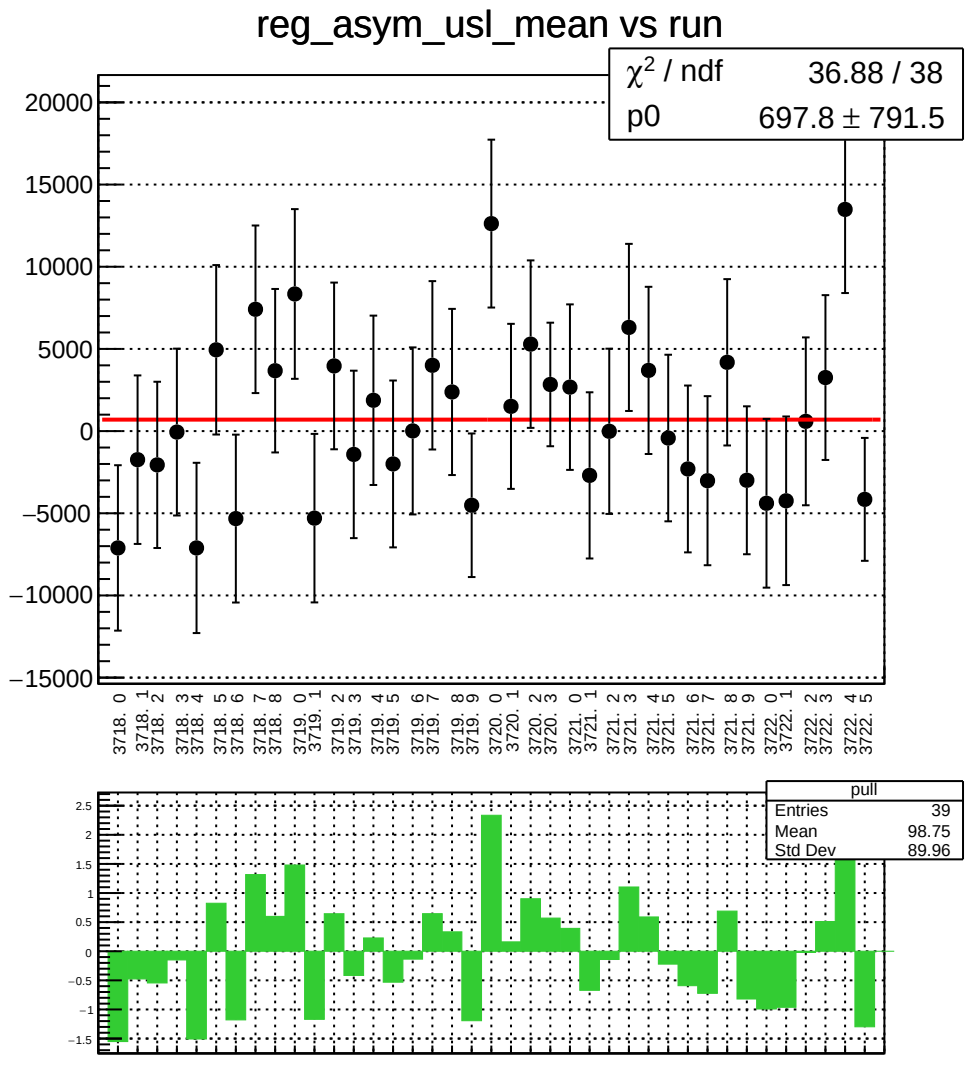
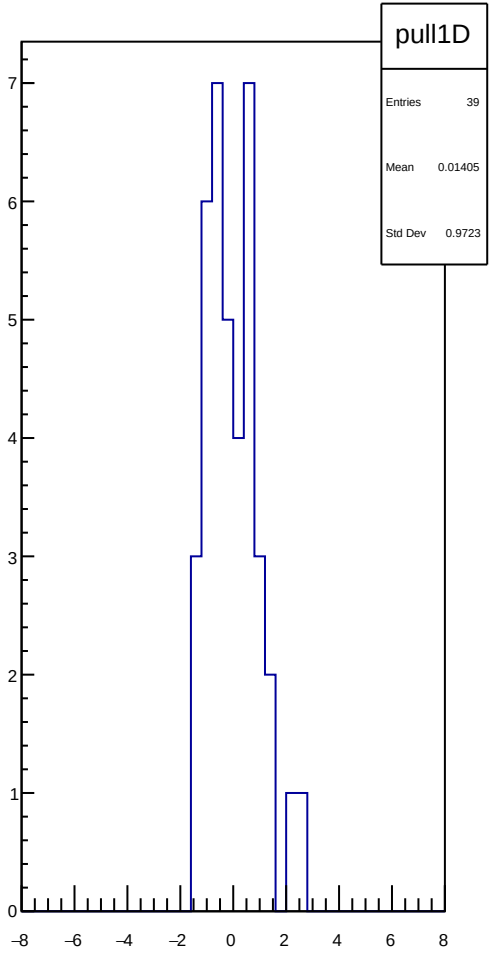
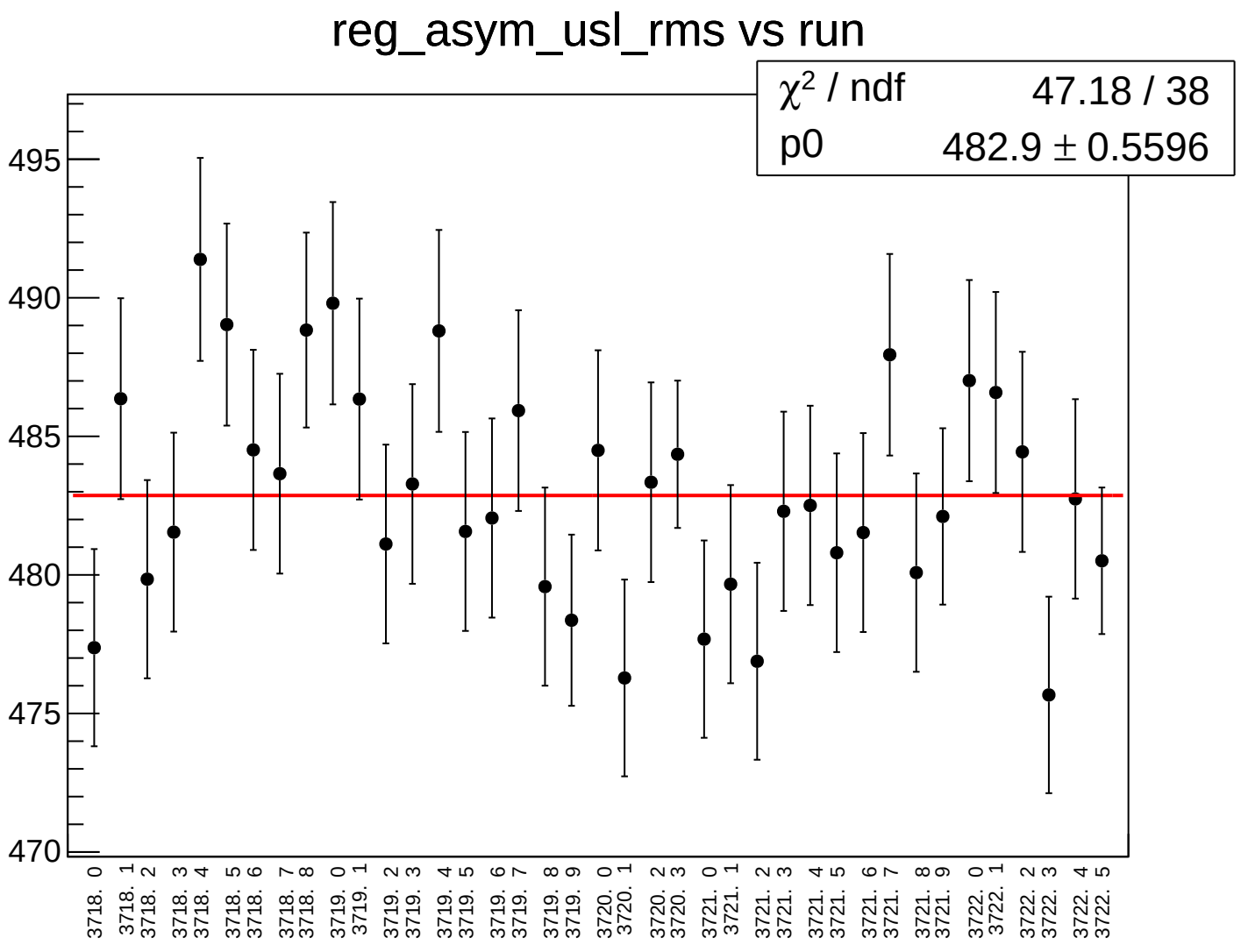
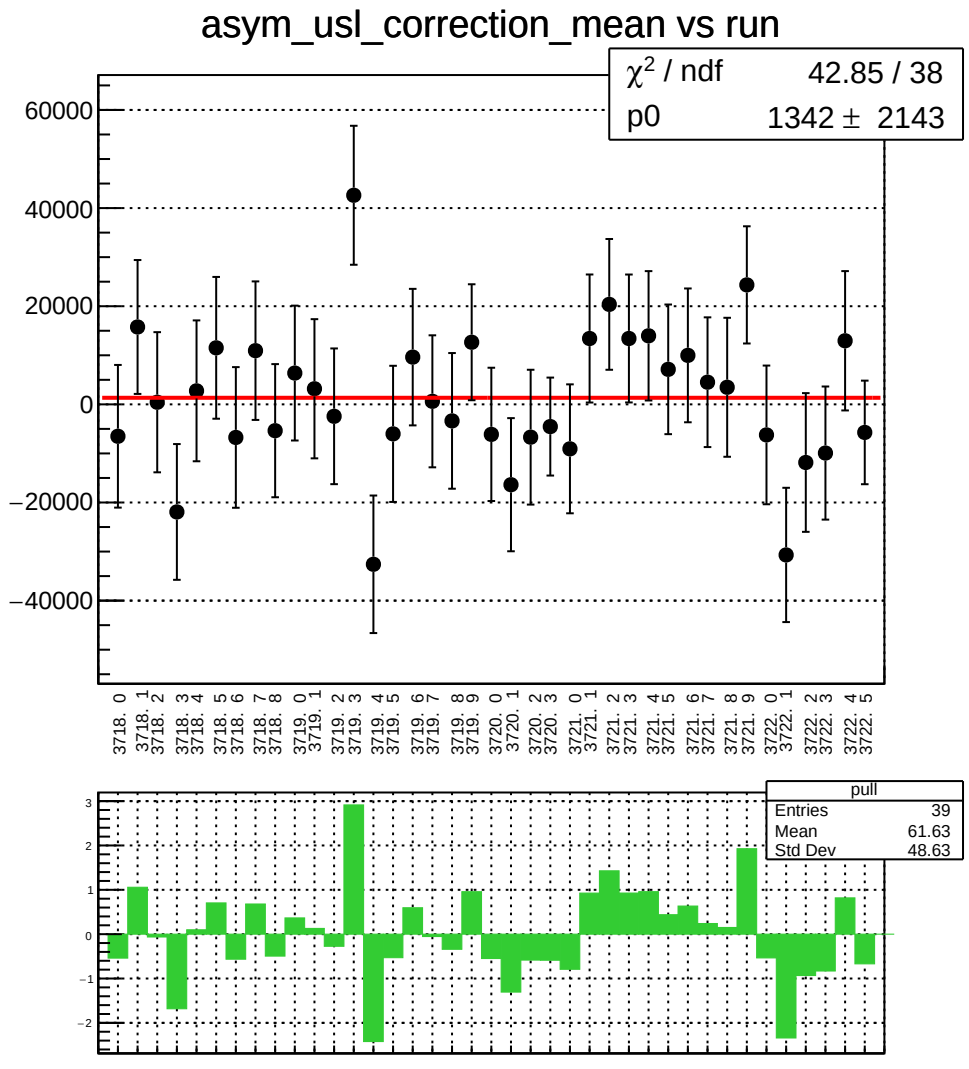
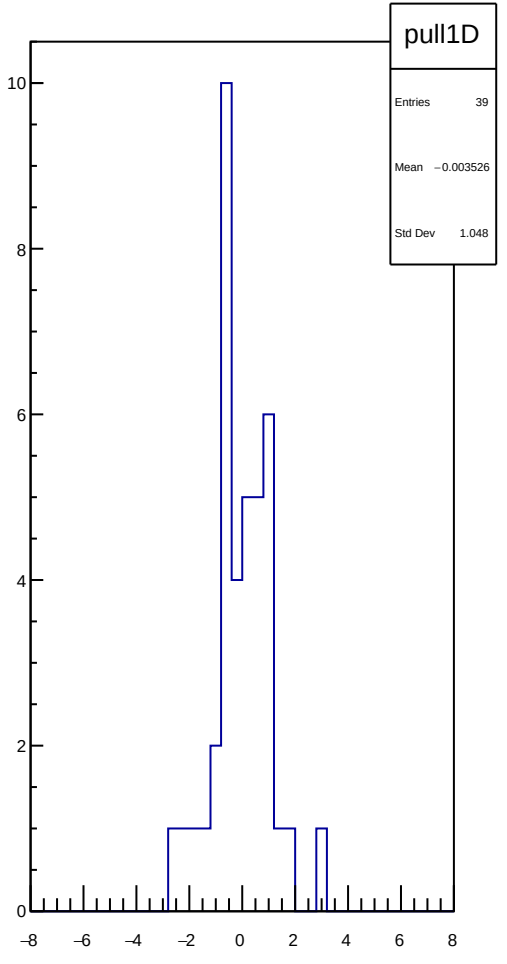
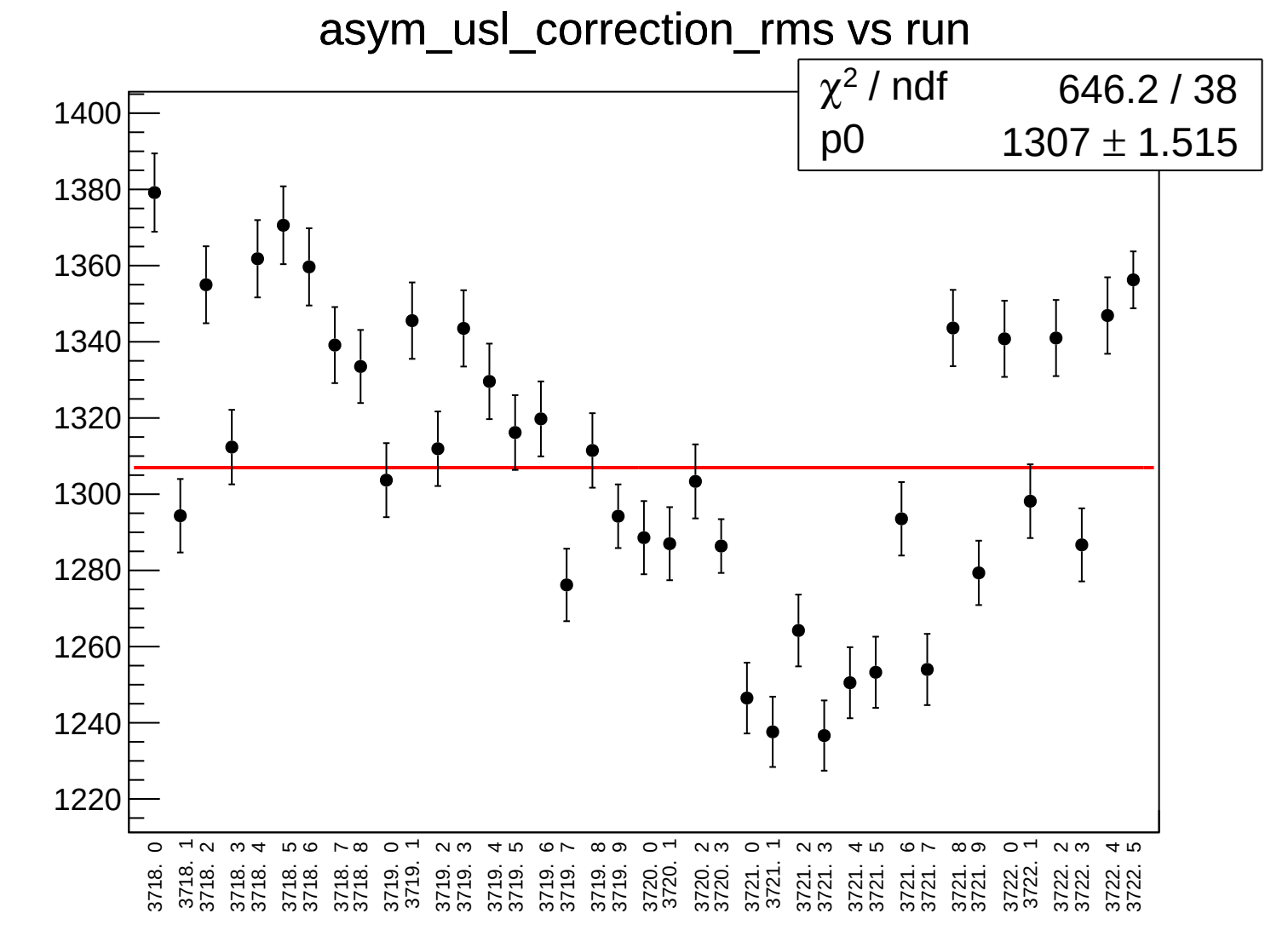

reg_asym_usl_mean vs run
χ² / ndf 36.88 / 38
p0 697.8 ± 791.5
20000
15000
10000
5000
0
−5000
−10000
−15000
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 98.75
Std Dev 89.96
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

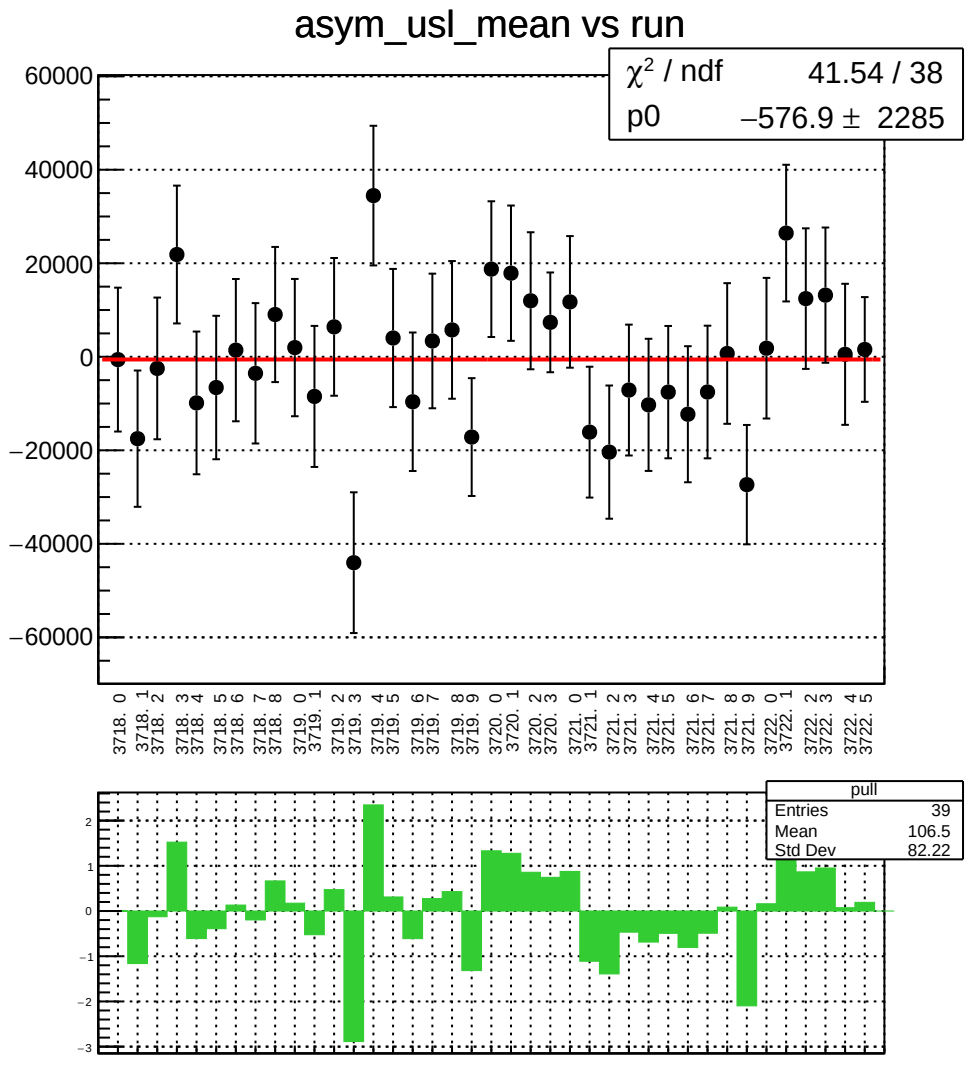

pull1D
Entries 39
Mean 0.01405
Std Dev 0.9723
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

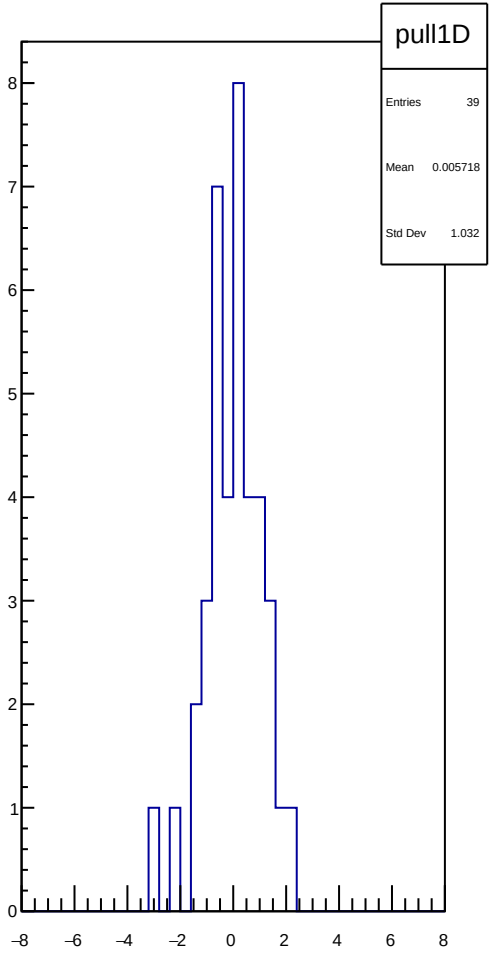

reg_asym_usl_rms vs run
χ² / ndf 47.18 / 38
p0 482.9 ± 0.5596
495
490
485
480
475
470
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

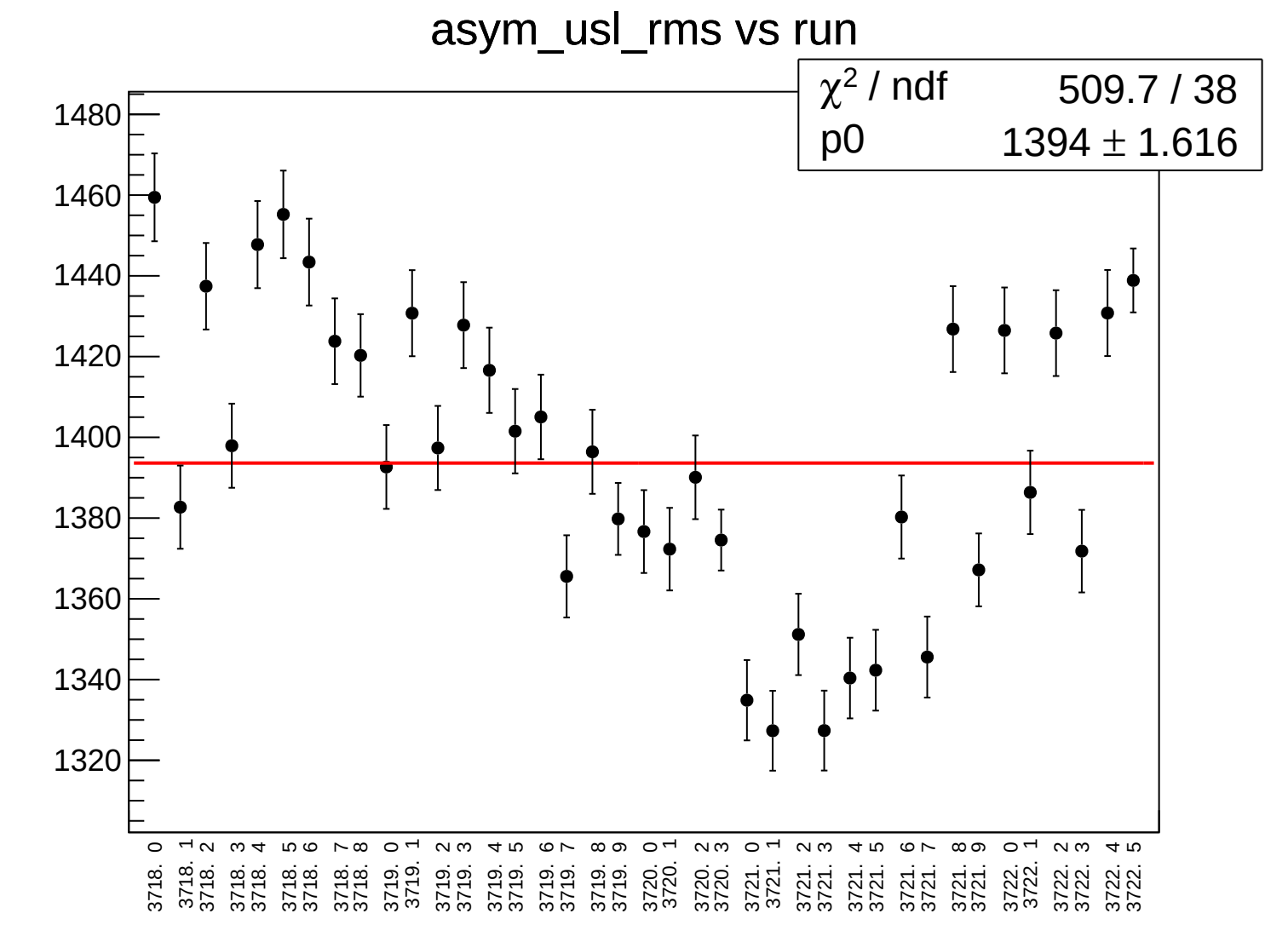

asym_usl_correction_mean vs run
χ² / ndf 42.85 / 38
p0 1342 ± 2143
60000
40000
20000
0
−20000
−40000
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 61.63
Std Dev 48.63
3
2
1
0
−1
−2

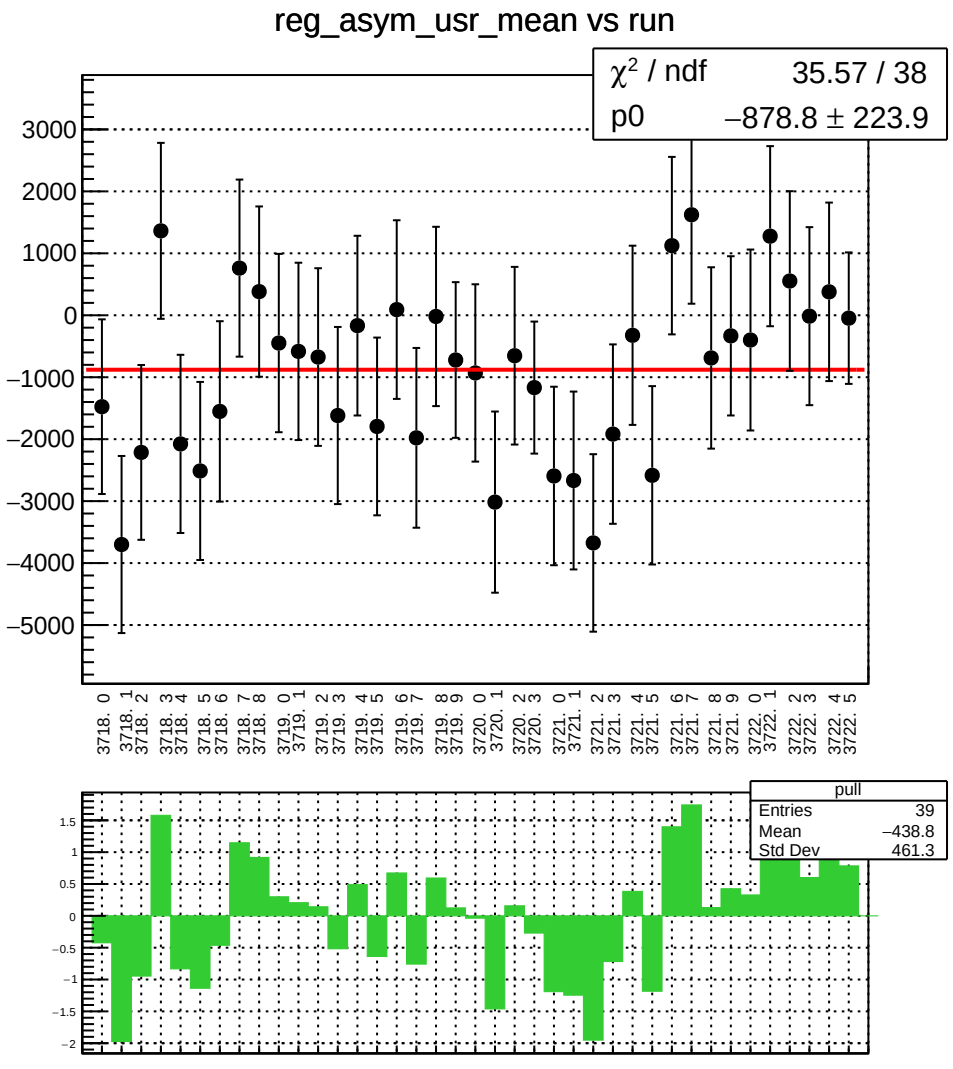

pull1D
Entries 39
Mean −0.003526
Std Dev 1.048
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

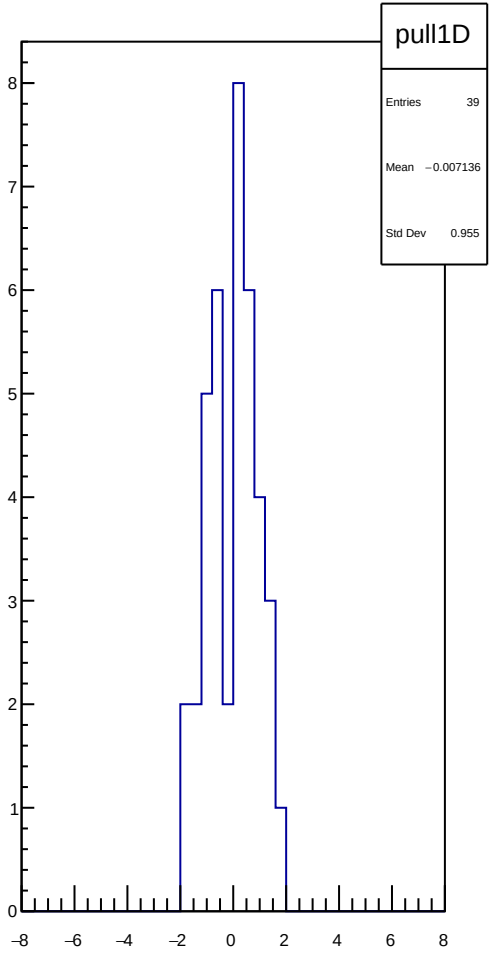

asym_usl_correction_rms vs run
χ² / ndf 646.2 / 38
p0 1307 ± 1.515
1400
1380
1360
1340
1320
1300
1280
1260
1240
1220
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

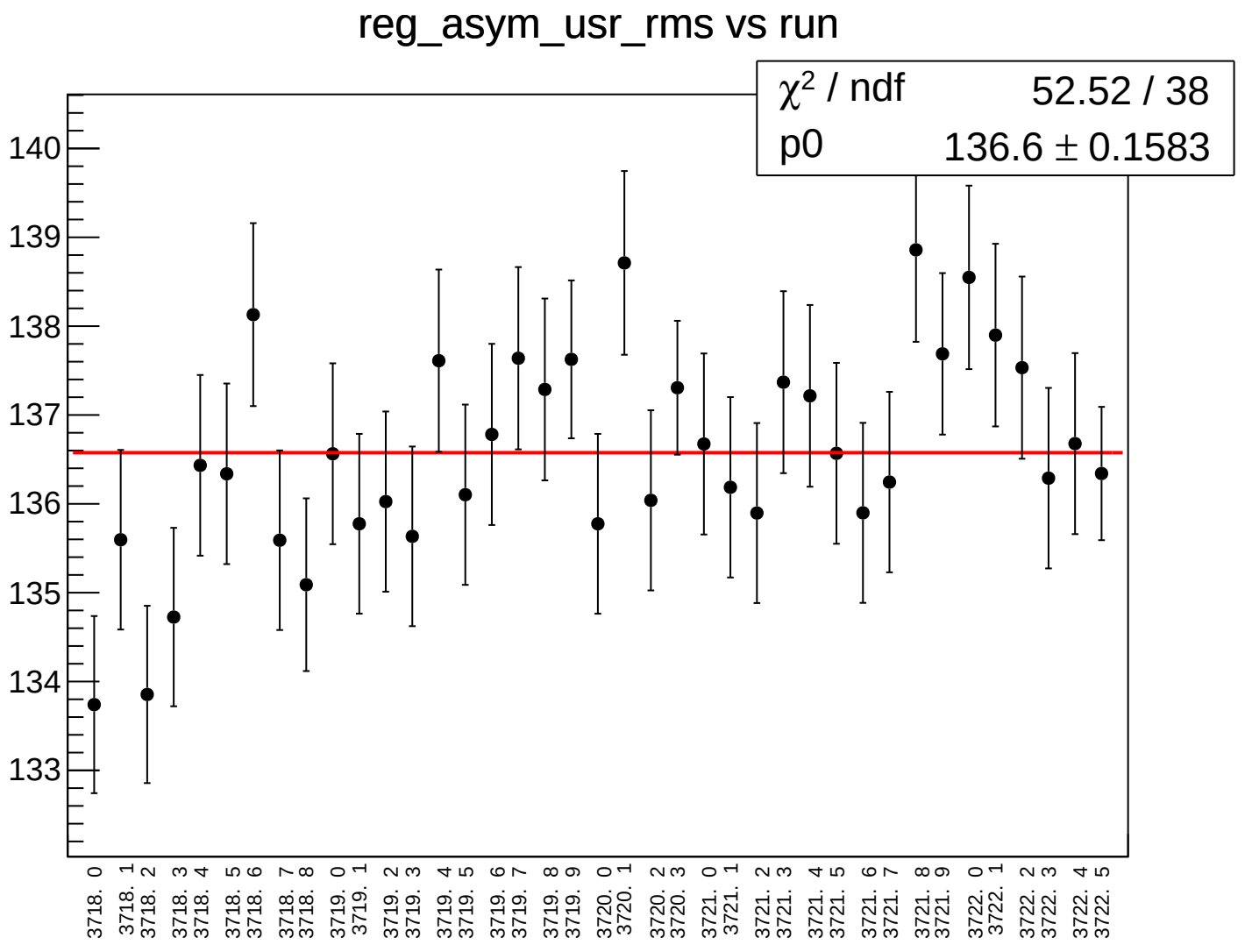

asym_usl_mean vs run
χ² / ndf 41.54 / 38
p0 −576.9 ± 2285
60000
40000
20000
0
−20000
−40000
−60000
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 106.5
Std Dev 82.22
2
1
0
−1
−2
−3

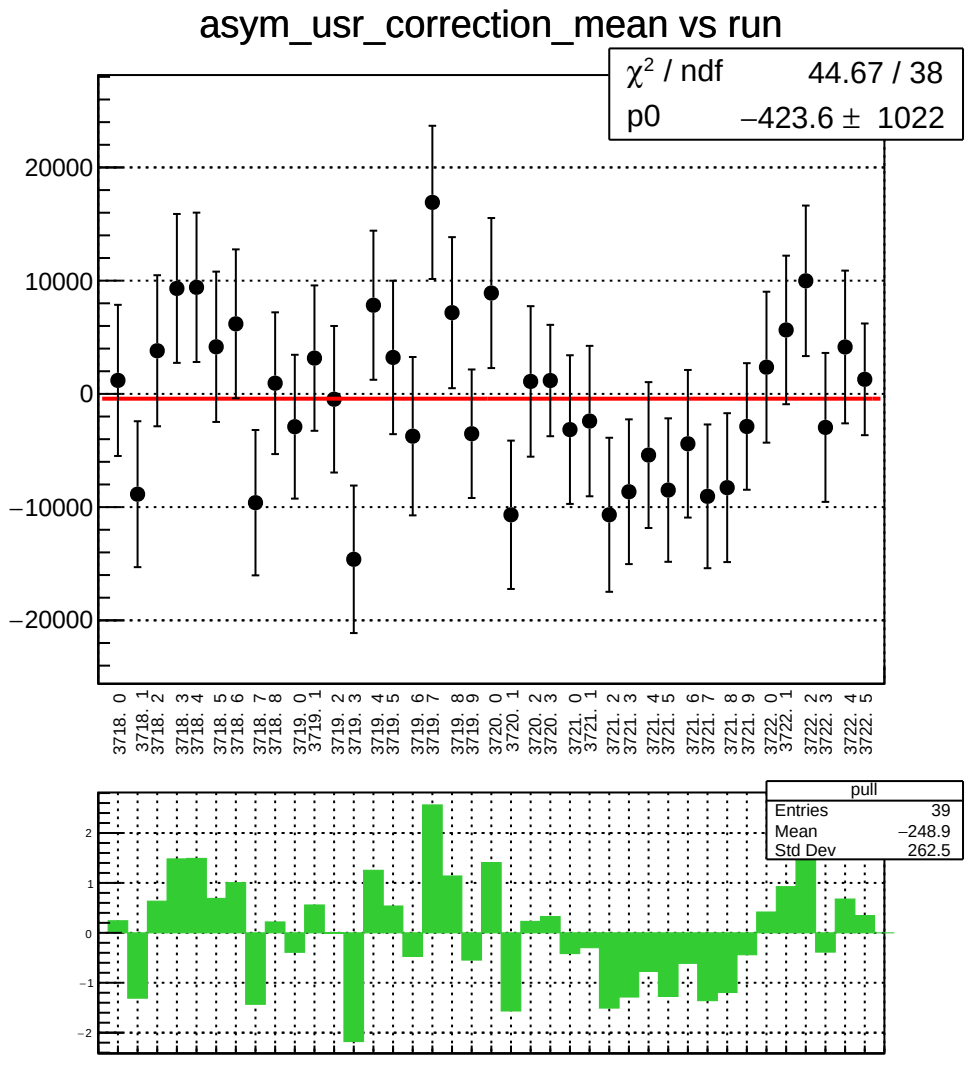

pull1D
Entries 39
Mean 0.005718
Std Dev 1.032
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

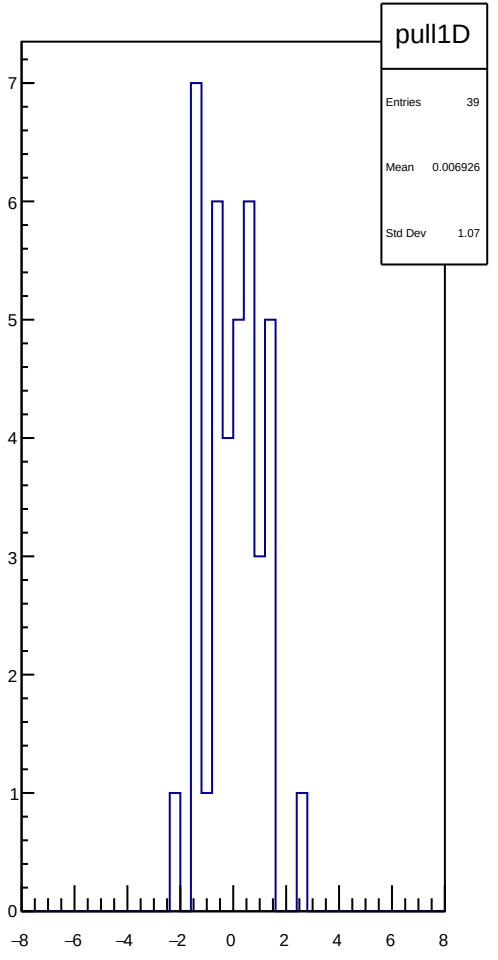

asym_usl_rms vs run
χ² / ndf 509.7 / 38
p0 1394 ± 1.616
1480
1460
1440
1420
1400
1380
1360
1340
1320
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

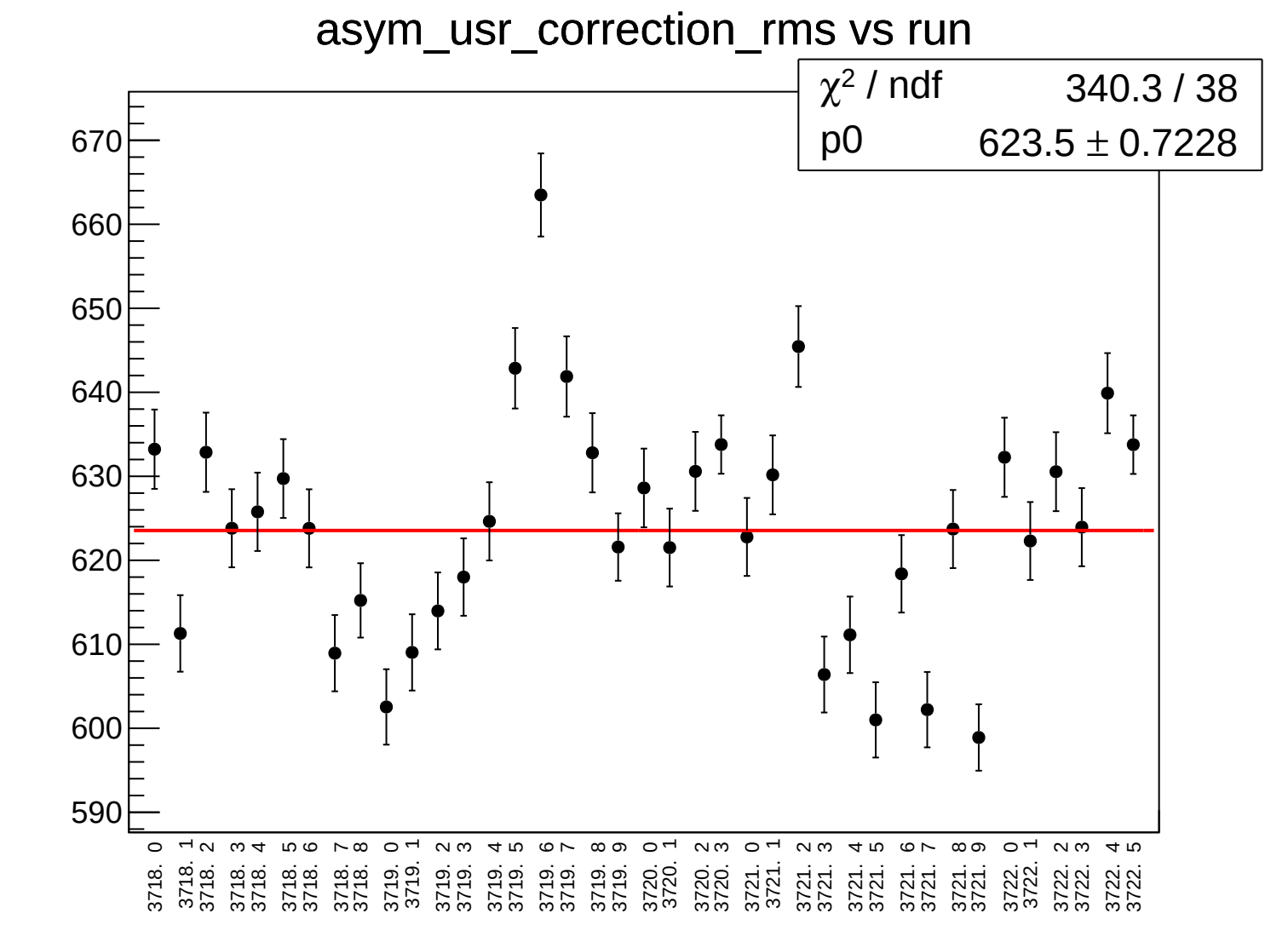

reg_asym_usr_mean vs run
χ² / ndf 35.57 / 38
p0 −878.8 ± 223.9
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −438.8
Std Dev 461.3
1.5
1
0.5
0
−0.5
−1
−1.5
−2

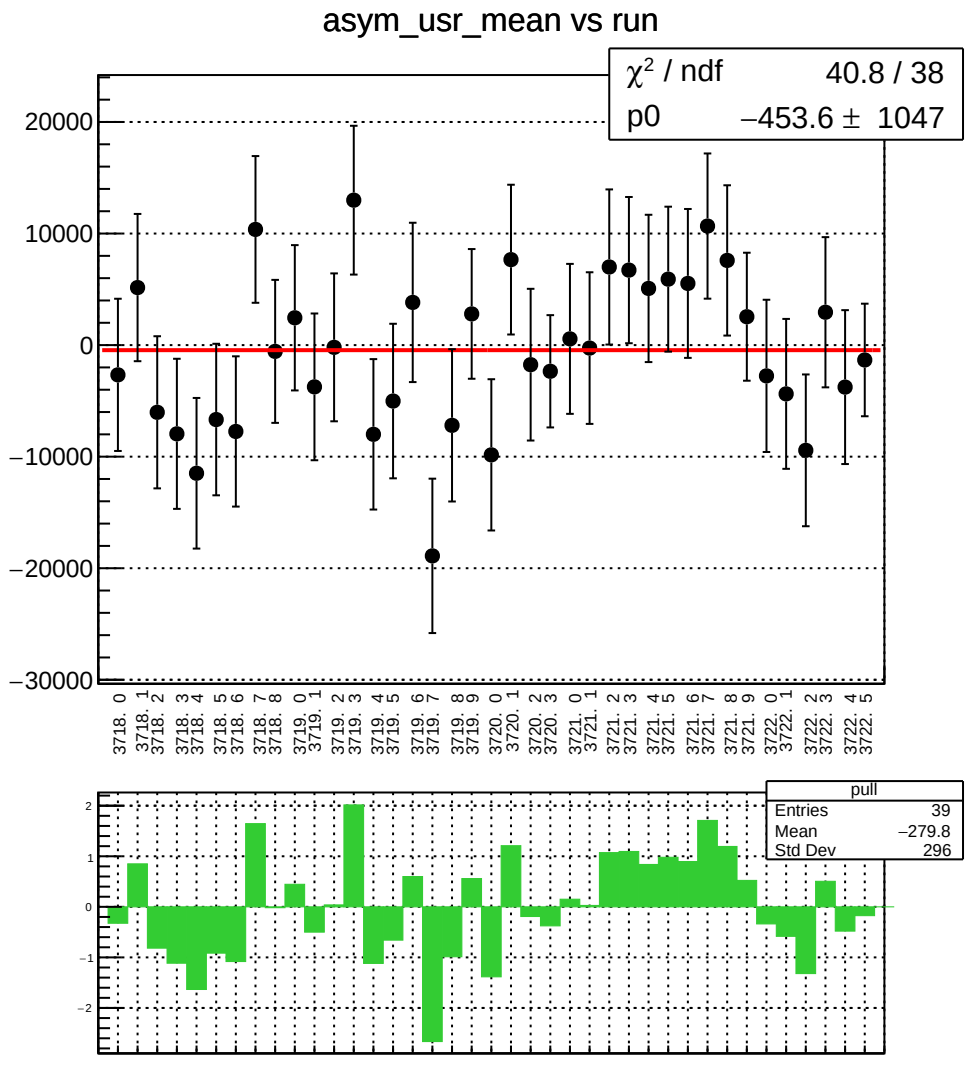

pull1D
Entries 39
Mean −0.007136
Std Dev 0.955
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

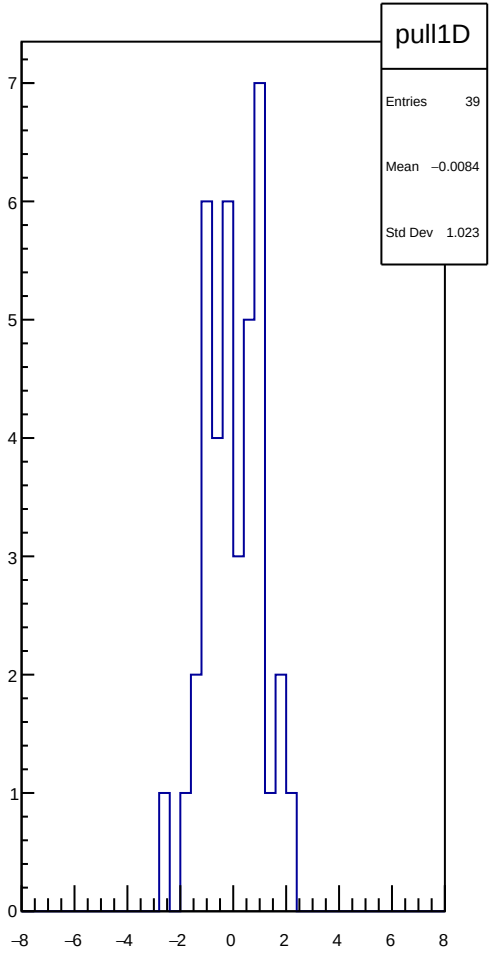

reg_asym_usr_rms vs run
χ² / ndf 52.52 / 38
p0 136.6 ± 0.1583
140
139
138
137
136
135
134
133
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

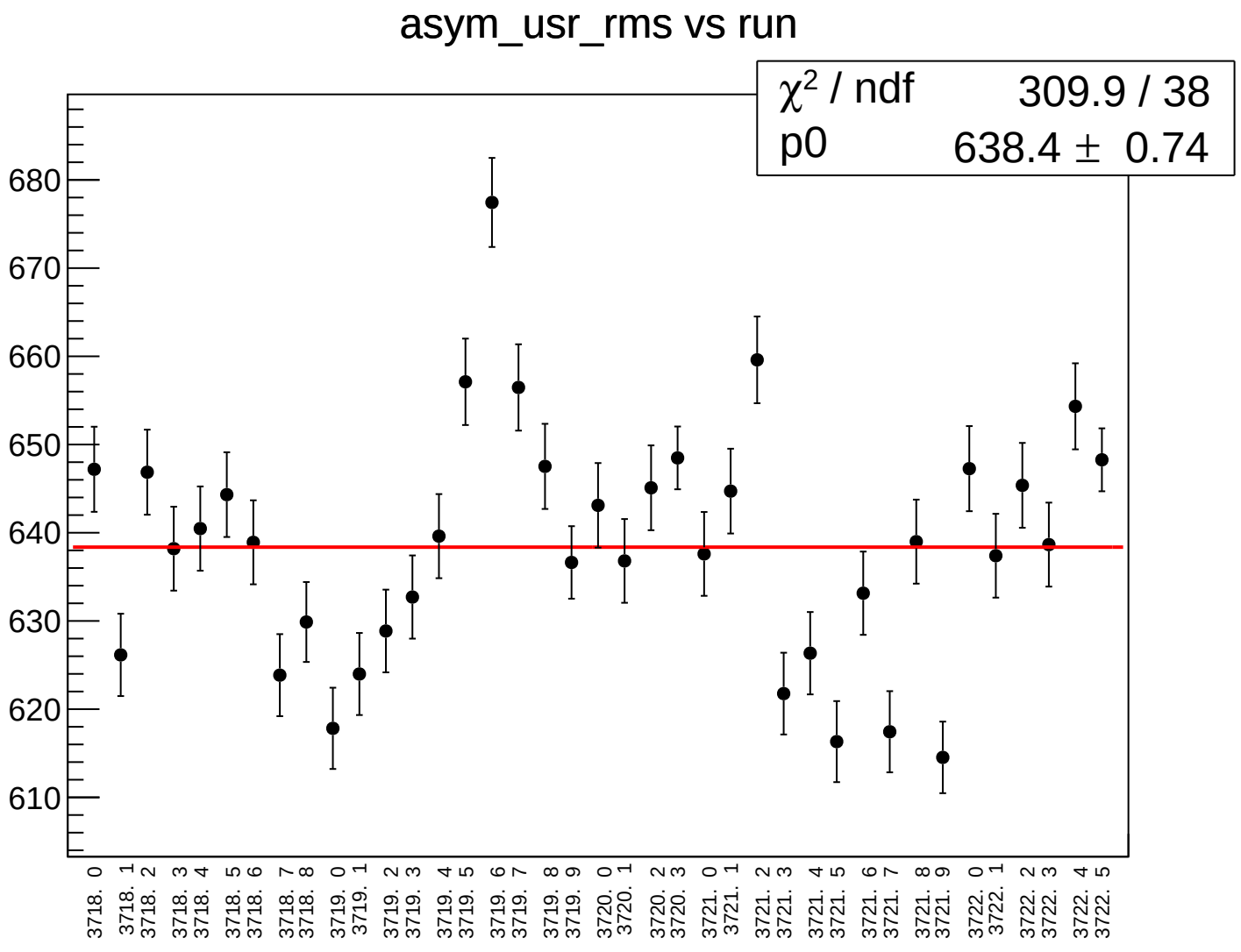

asym_usr_correction_mean vs run
χ² / ndf 44.67 / 38
p0 −423.6 ± 1022
20000
10000
0
−10000
−20000
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −248.9
Std Dev 262.5
2
1
0
−1
−2

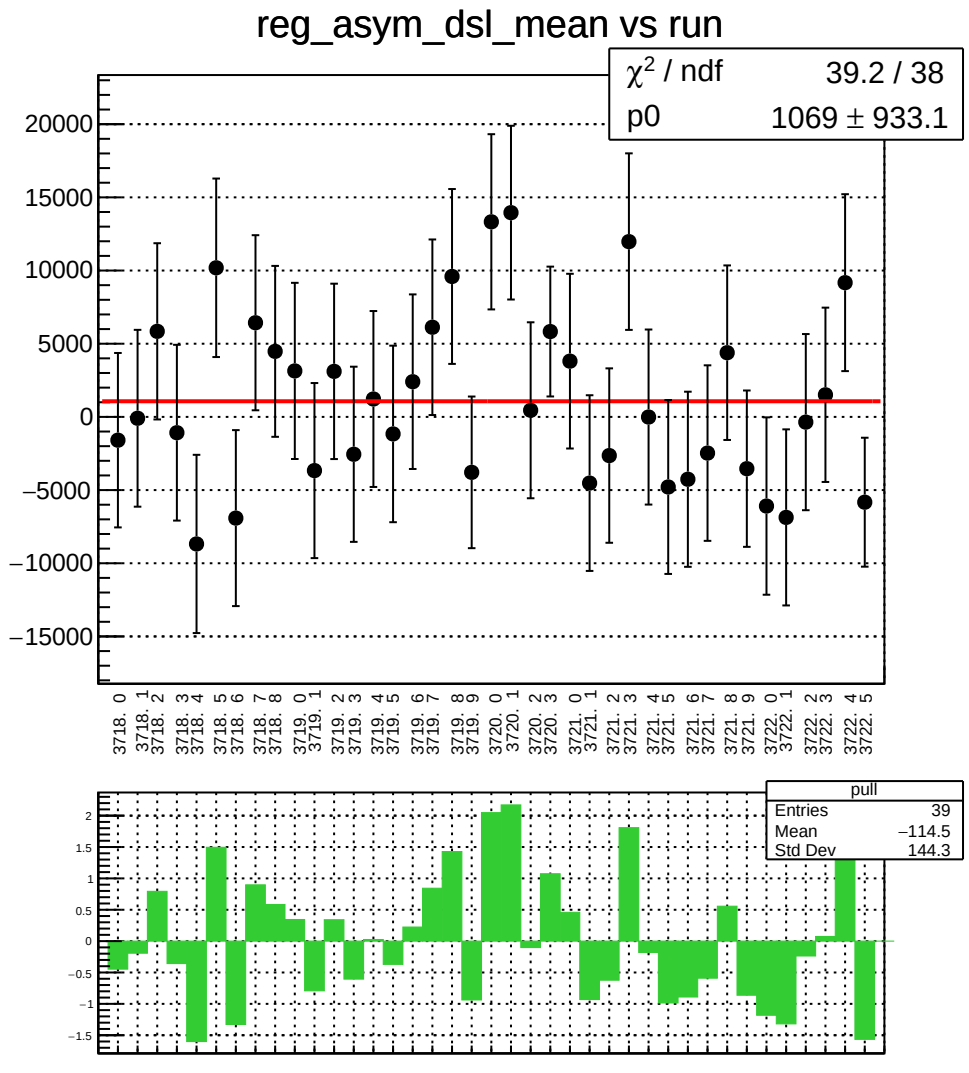

pull1D
Entries 39
Mean 0.006926
Std Dev 1.07
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

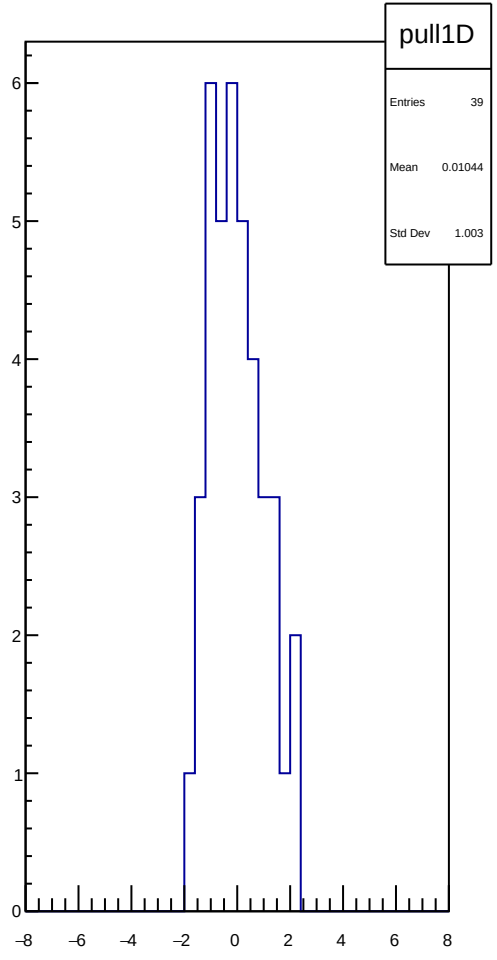

asym_usr_correction_rms vs run
χ² / ndf 340.3 / 38
p0 623.5 ± 0.7228
670
660
650
640
630
620
610
600
590
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

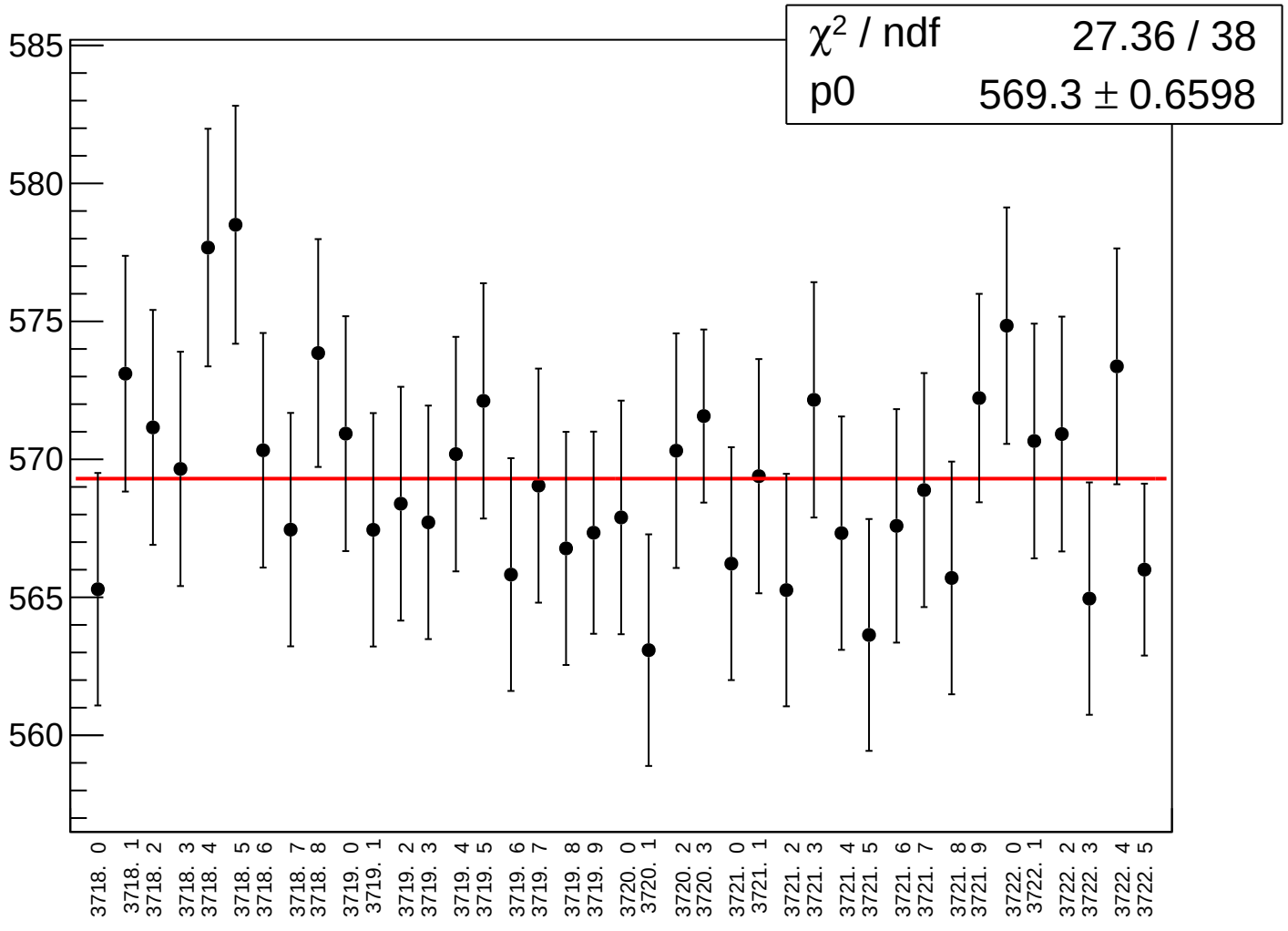

asym_usr_mean vs run
χ² / ndf 40.8 / 38
p0 −453.6 ± 1047
20000
10000
0
−10000
−20000
−30000
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −279.8
Std Dev 296
2
1
0
−1
−2

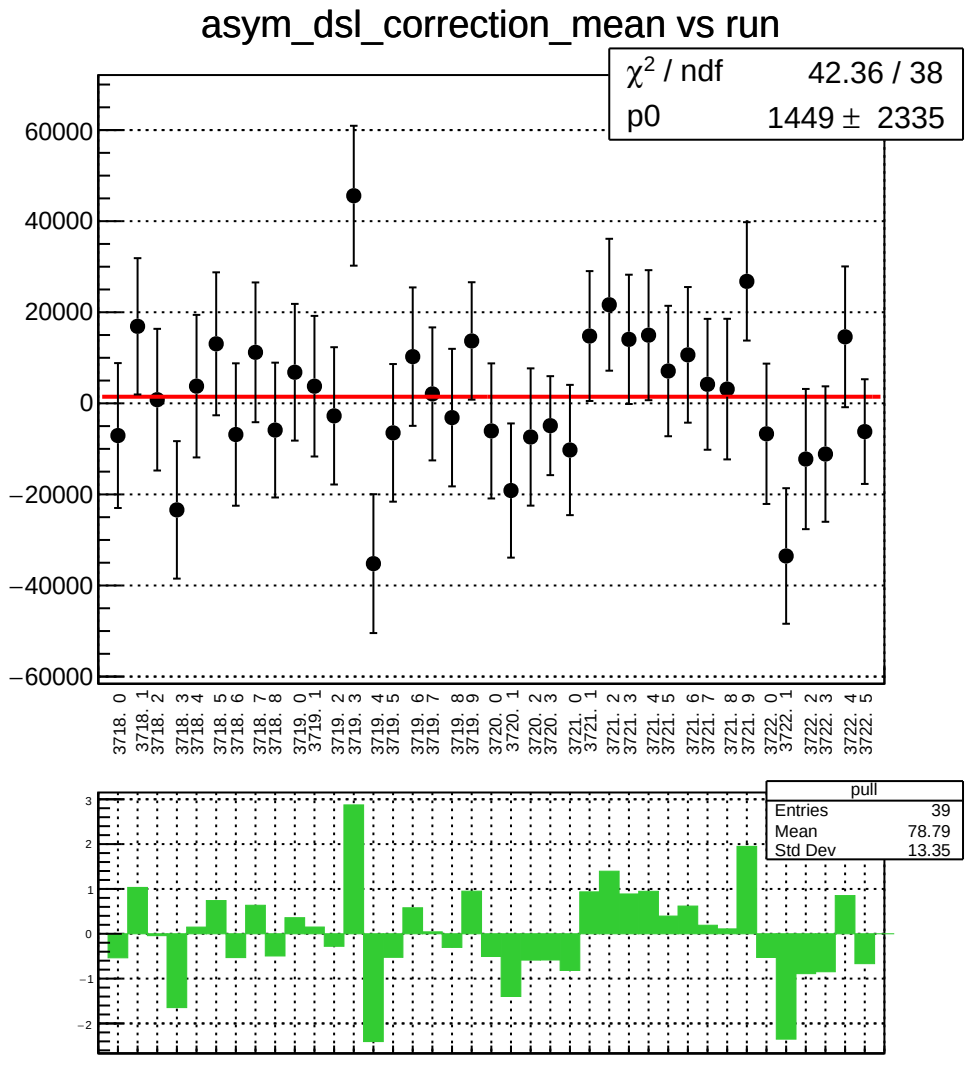

pull1D
Entries 39
Mean −0.0084
Std Dev 1.023
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

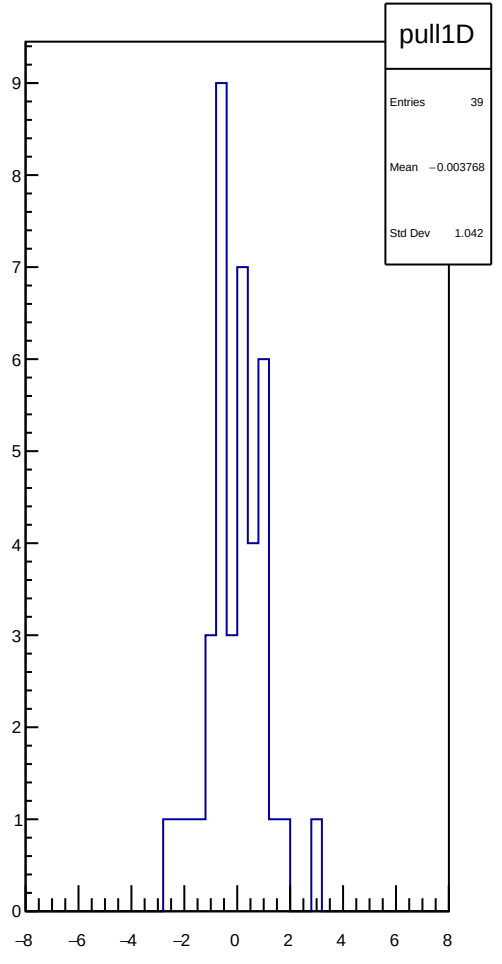

asym_usr_rms vs run
χ² / ndf 309.9 / 38
p0 638.4 ± 0.74
680
670
660
650
640
630
620
610
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

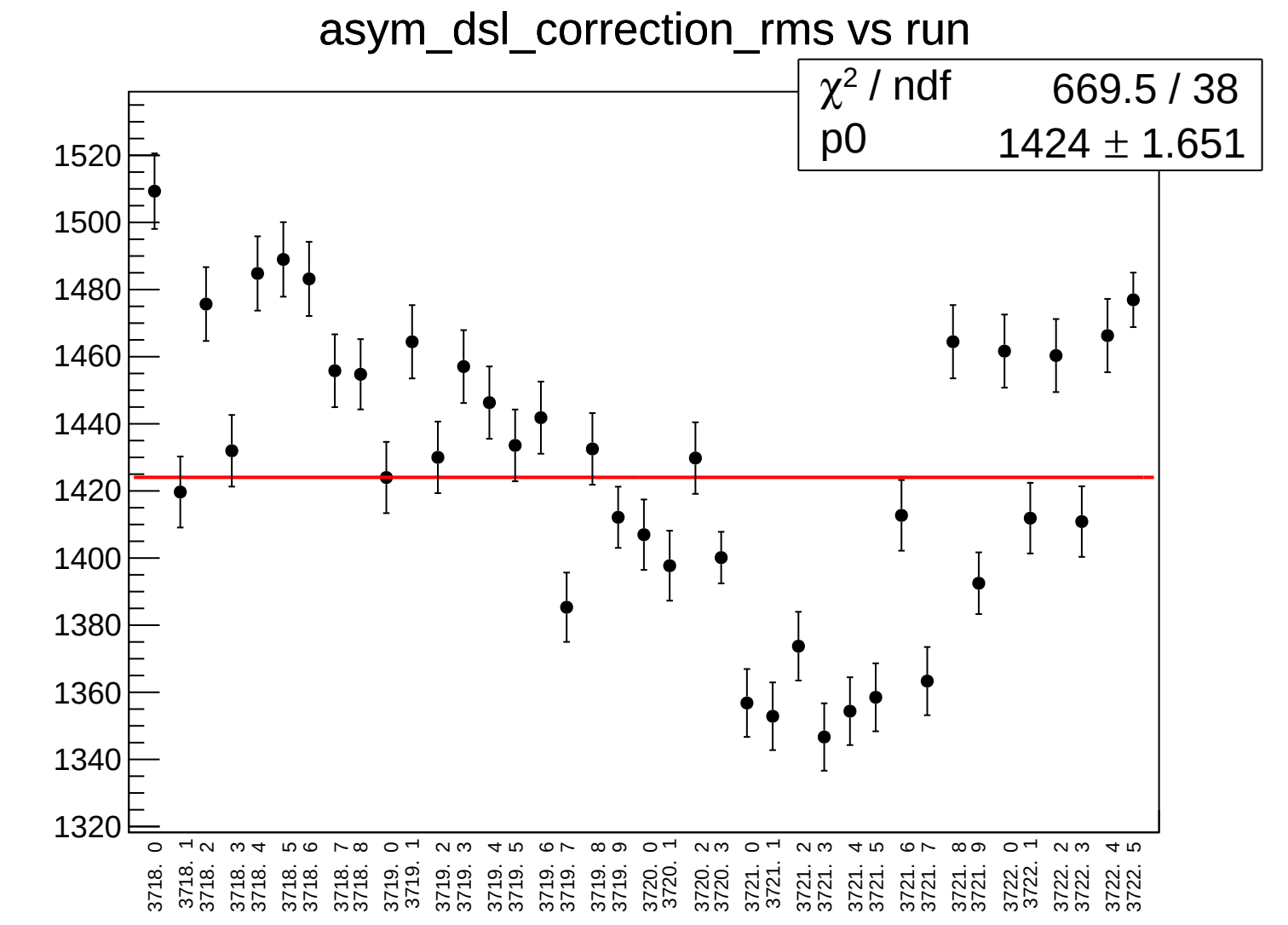

reg_asym_dsl_mean vs run
χ² / ndf 39.2 / 38
p0 1069 ± 933.1
20000
15000
10000
5000
0
−5000
−10000
−15000
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −114.5
Std Dev 144.3
2
1.5
1
0.5
0
−0.5
−1
−1.5

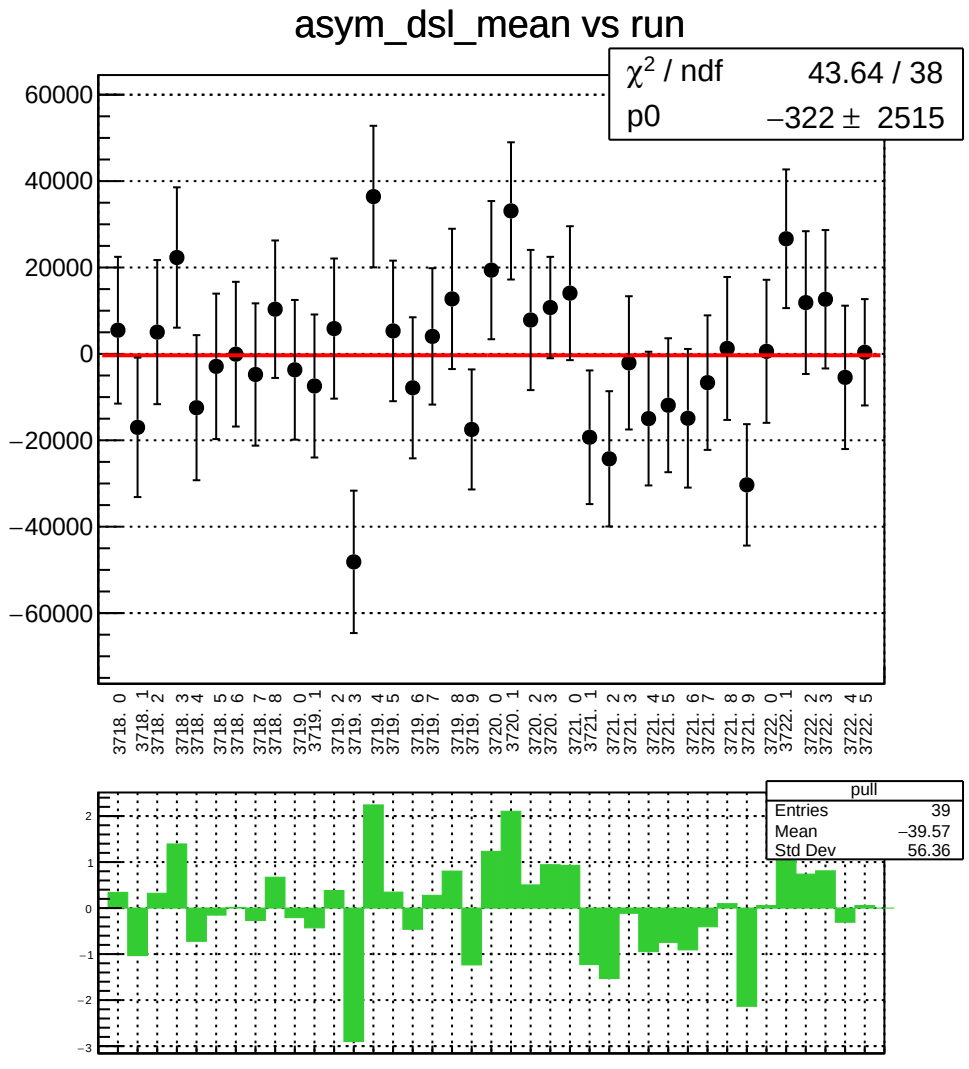

pull1D
Entries 39
Mean 0.01044
Std Dev 1.003
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

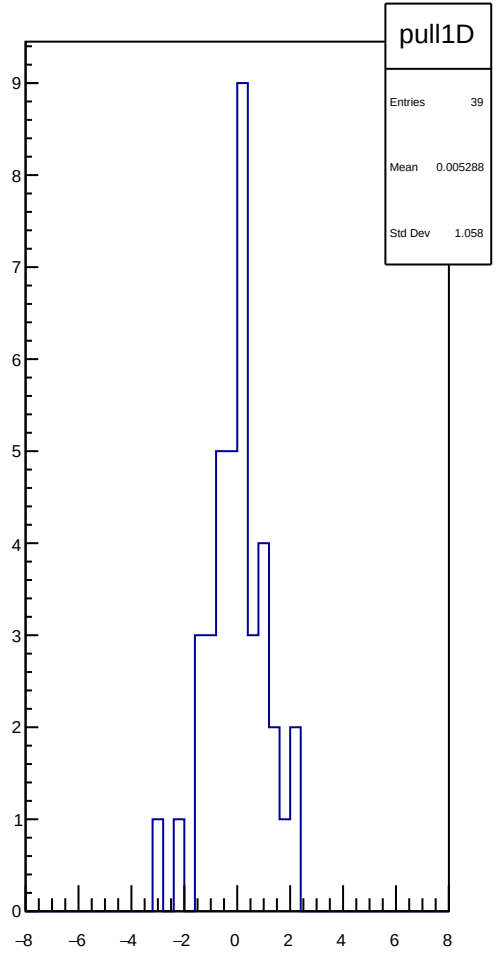

reg_asym_dsl_rms vs run
χ² / ndf 27.36 / 38
p0 569.3 ± 0.6598
585
580
575
570
565
560
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

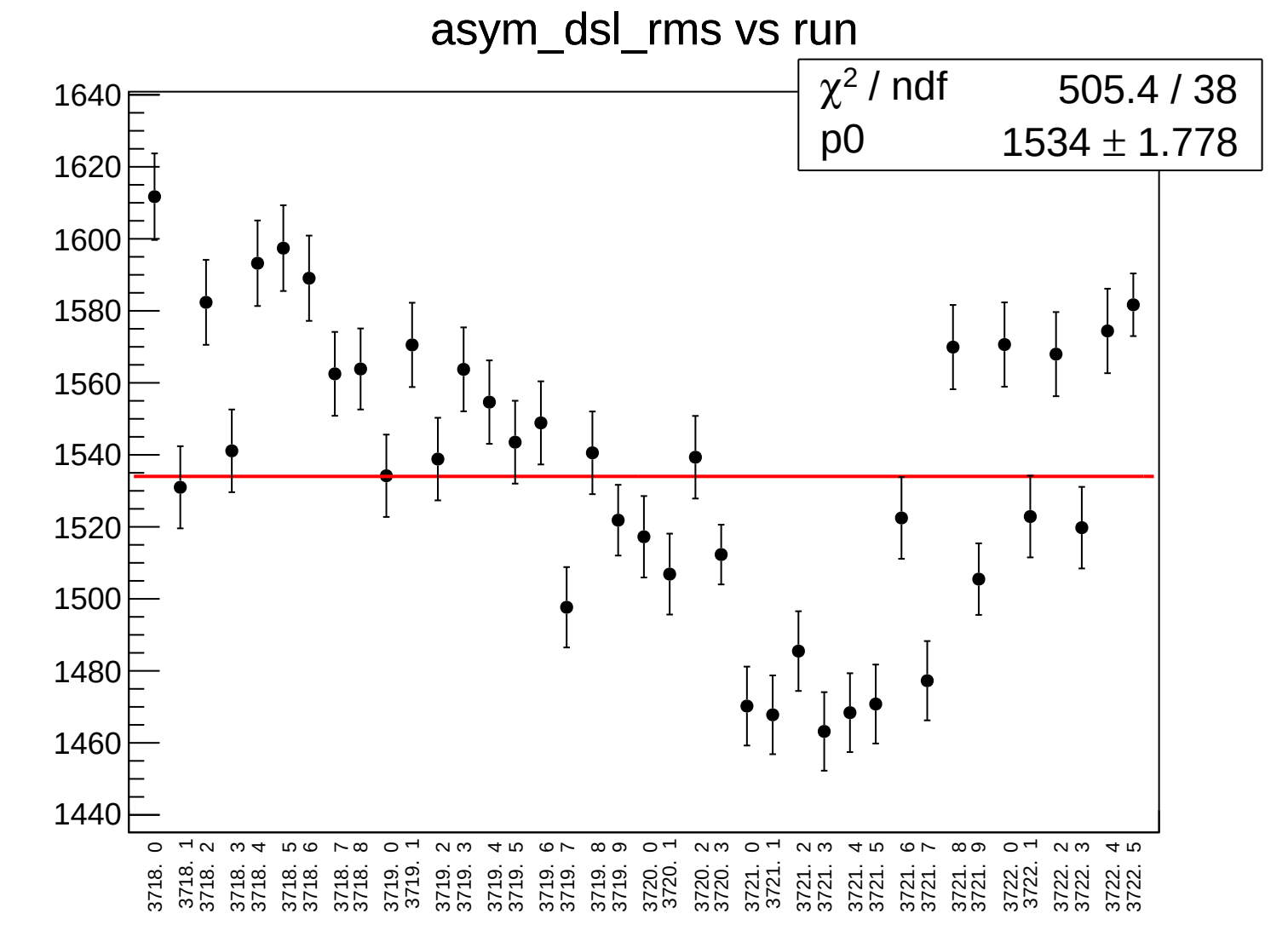

asym_dsl_correction_mean vs run
χ² / ndf 42.36 / 38
p0 1449 ± 2335
60000
40000
20000
0
−20000
−40000
−60000
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 78.79
Std Dev 13.35
3
2
1
0
−1
−2

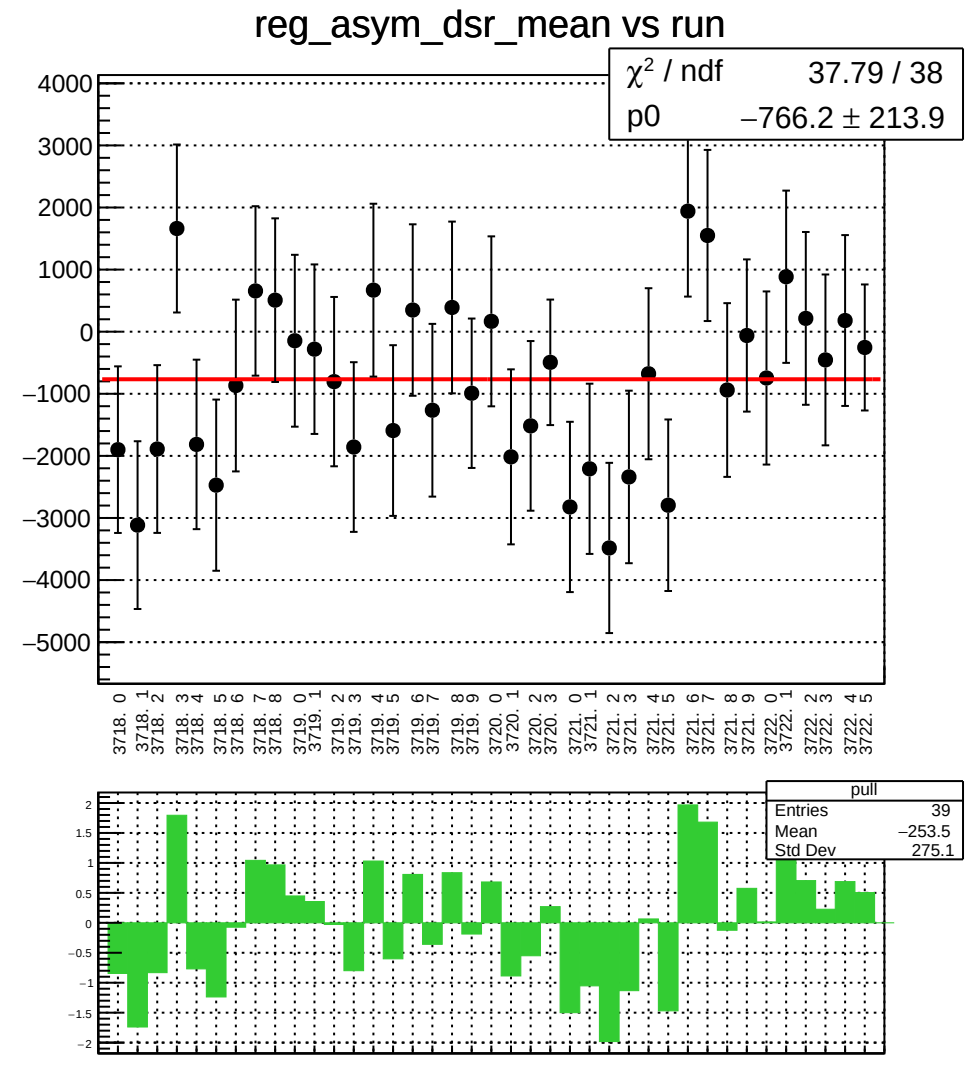

pull1D
Entries 39
Mean −0.003768
Std Dev 1.042
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

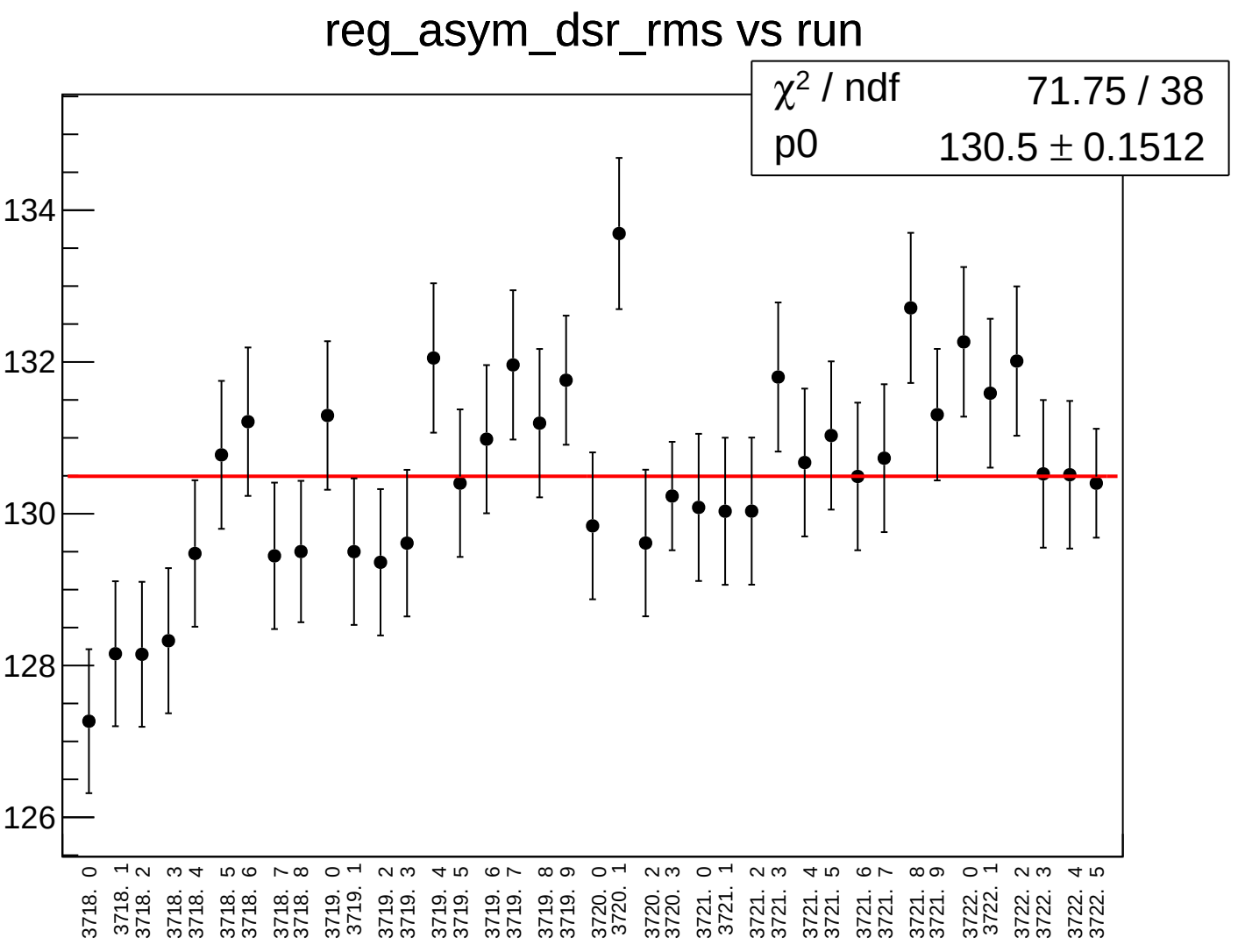

asym_dsl_correction_rms vs run
χ² / ndf 669.5 / 38
p0 1424 ± 1.651
1520
1500
1480
1460
1440
1420
1400
1380
1360
1340
1320
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

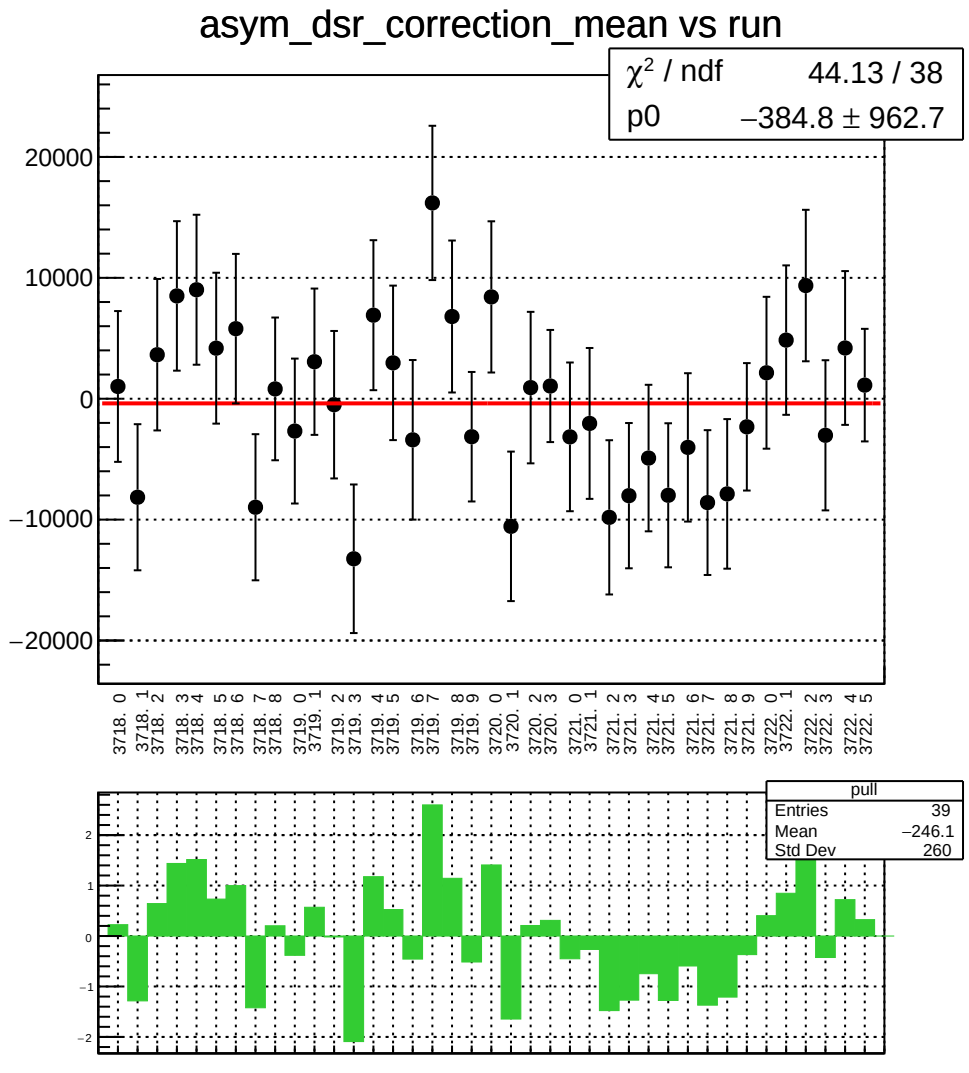

asym_dsl_mean vs run
χ² / ndf 43.64 / 38
p0 −322 ± 2515
60000
40000
20000
0
−20000
−40000
−60000
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −39.57
Std Dev 56.36
2
1
0
−1
−2
−3

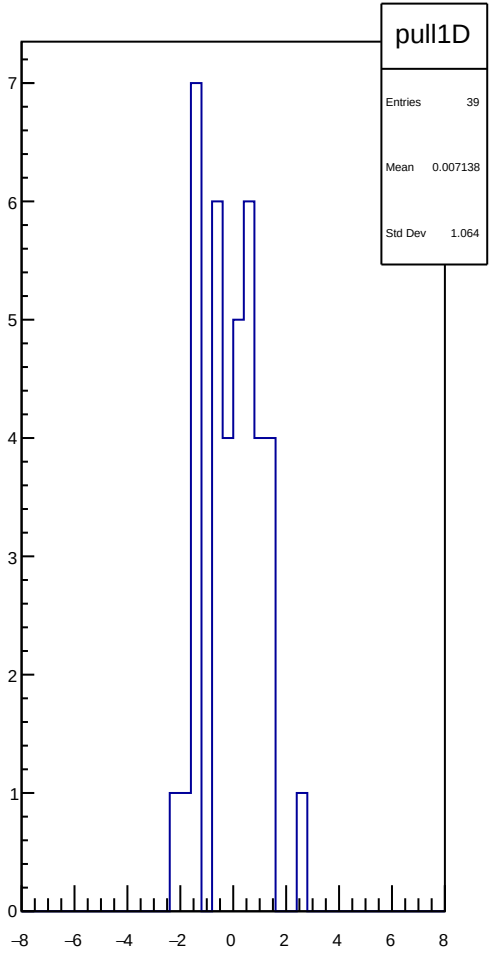

pull1D
Entries 39
Mean 0.005288
Std Dev 1.058
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

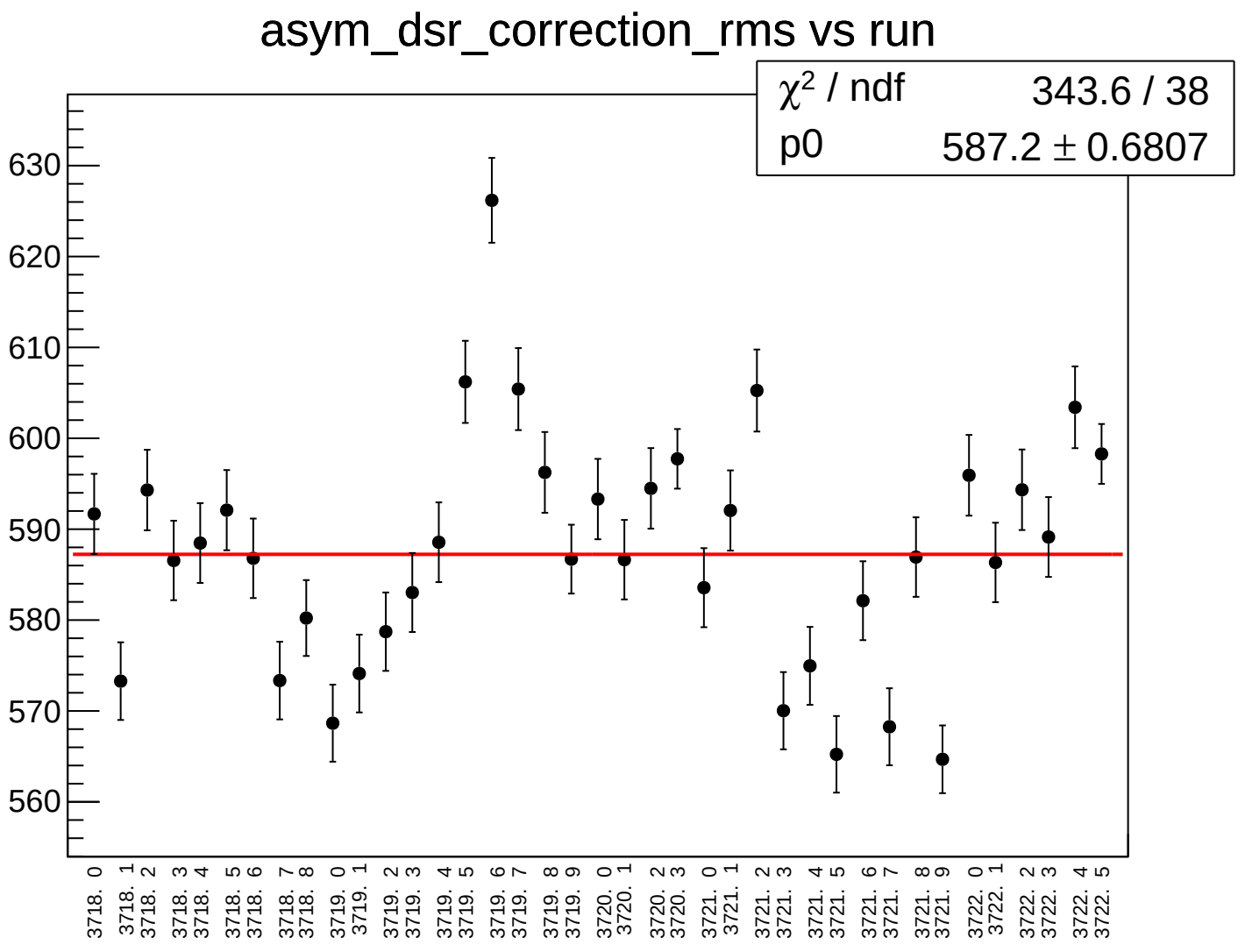

asym_dsl_rms vs run
χ² / ndf 505.4 / 38
p0 1534 ± 1.778
1640
1620
1600
1580
1560
1540
1520
1500
1480
1460
1440
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

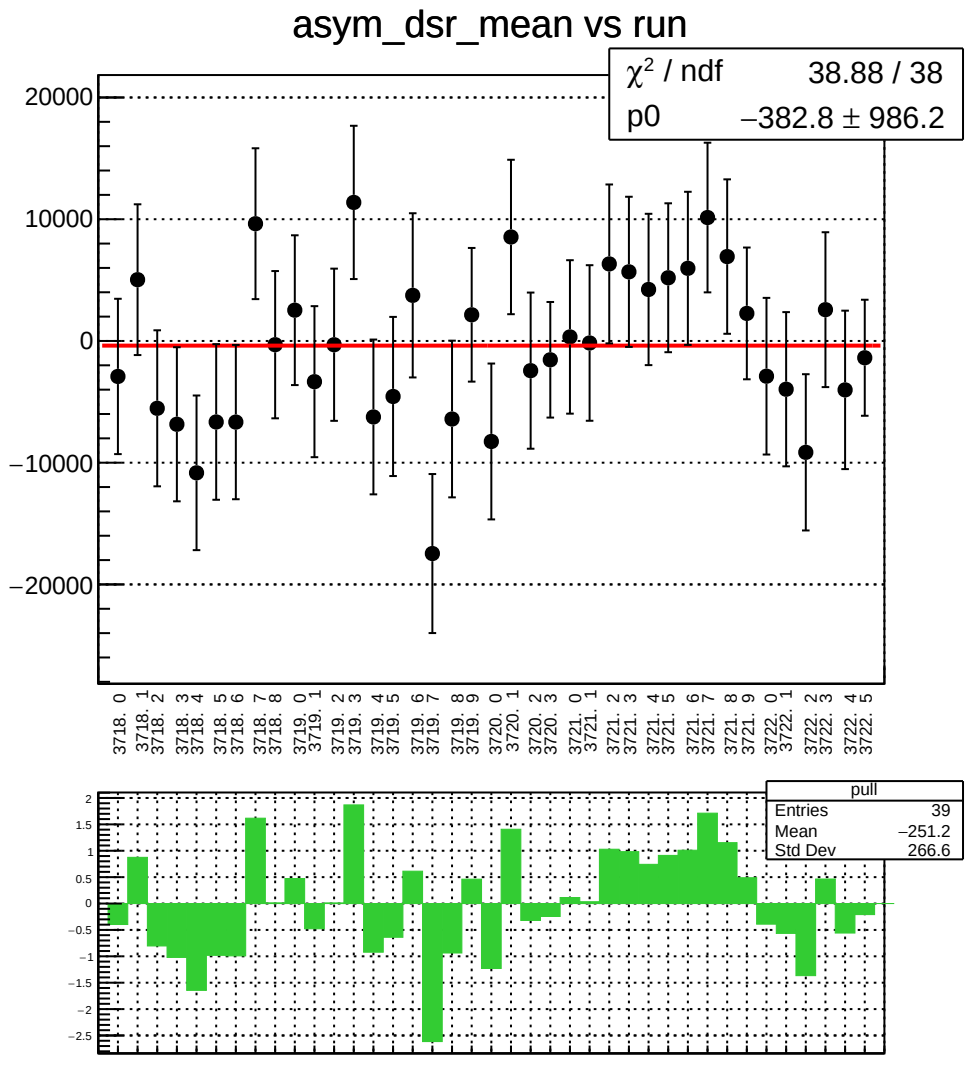

reg_asym_dsr_mean vs run
χ² / ndf 37.79 / 38
p0 −766.2 ± 213.9
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −253.5
Std Dev 275.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean −0.007993
Std Dev 0.9844
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

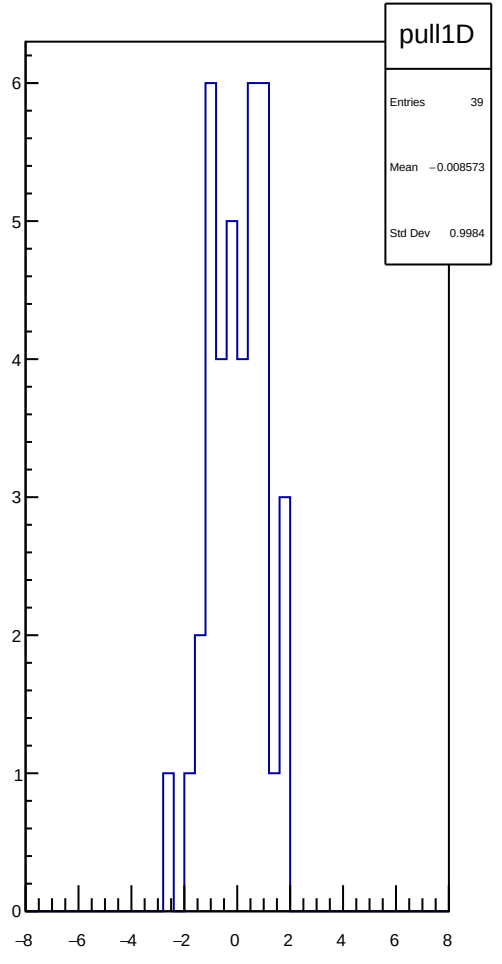

reg_asym_dsr_rms vs run
χ² / ndf 71.75 / 38
p0 130.5 ± 0.1512
134
132
130
128
126
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

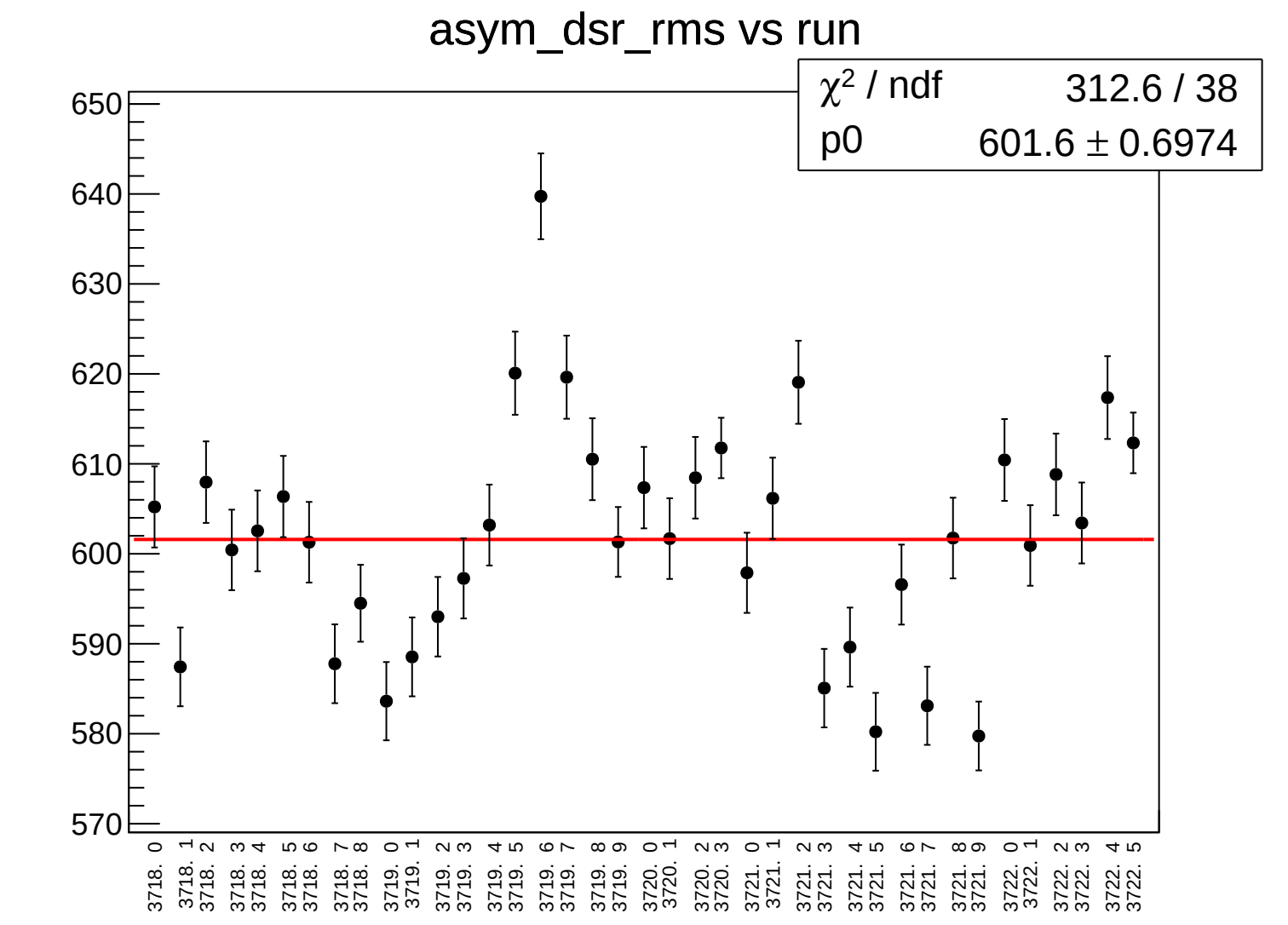

asym_dsr_correction_mean vs run
χ² / ndf 44.13 / 38
p0 −384.8 ± 962.7
20000
10000
0
−10000
−20000
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −246.1
Std Dev 260
2
1
0
−1
−2

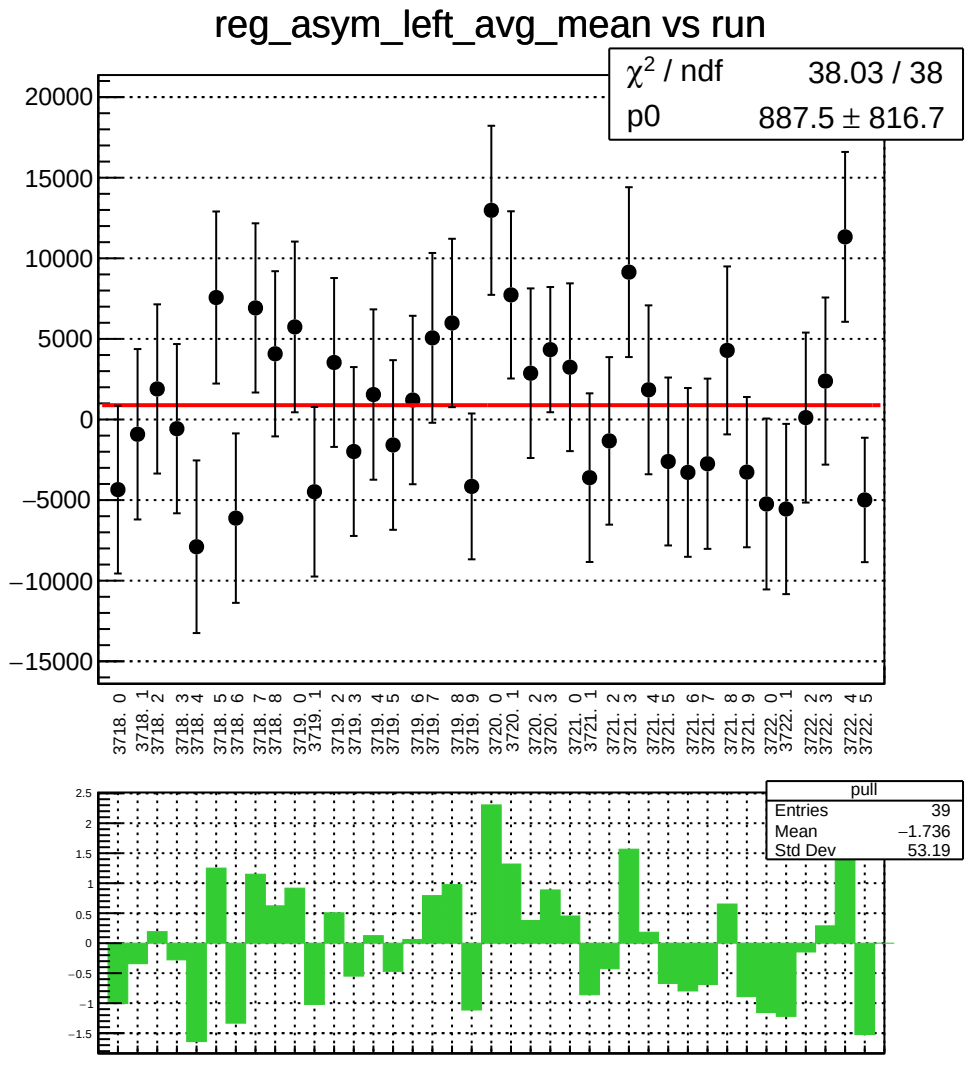

pull1D
Entries 39
Mean 0.007138
Std Dev 1.064
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

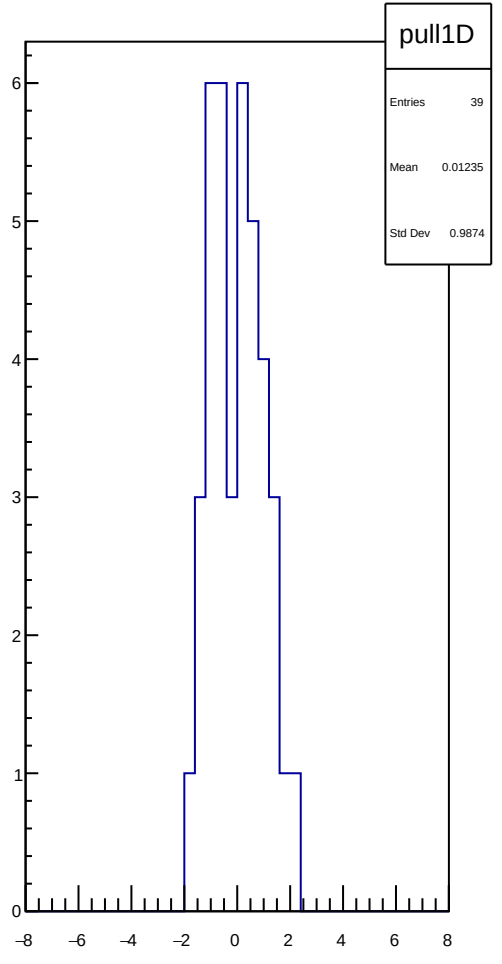

asym_dsr_correction_rms vs run
χ² / ndf 343.6 / 38
p0 587.2 ± 0.6807
630
620
610
600
590
580
570
560
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

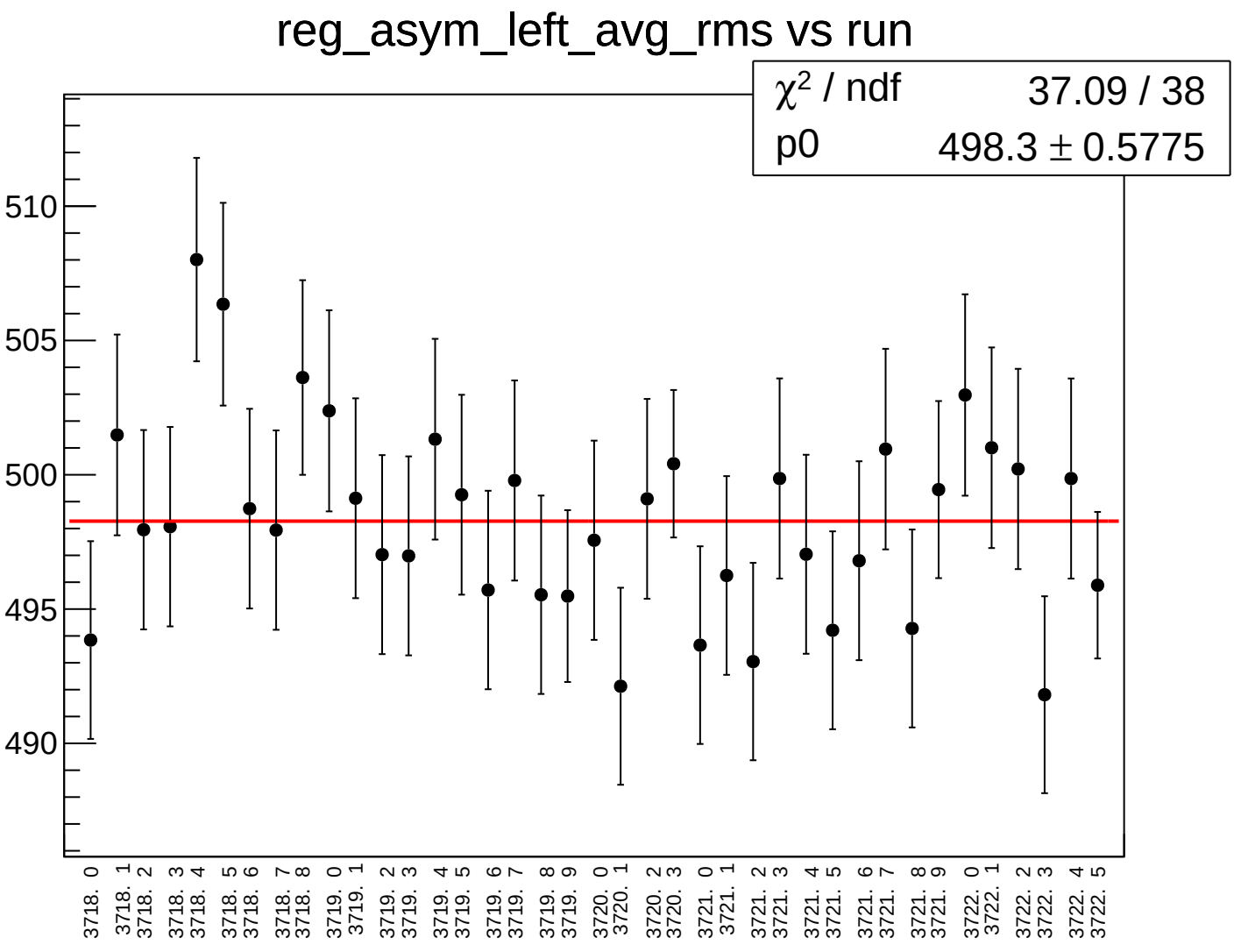

asym_dsr_mean vs run
χ² / ndf 38.88 / 38
p0 −382.8 ± 986.2
20000
10000
0
−10000
−20000
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −251.2
Std Dev 266.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

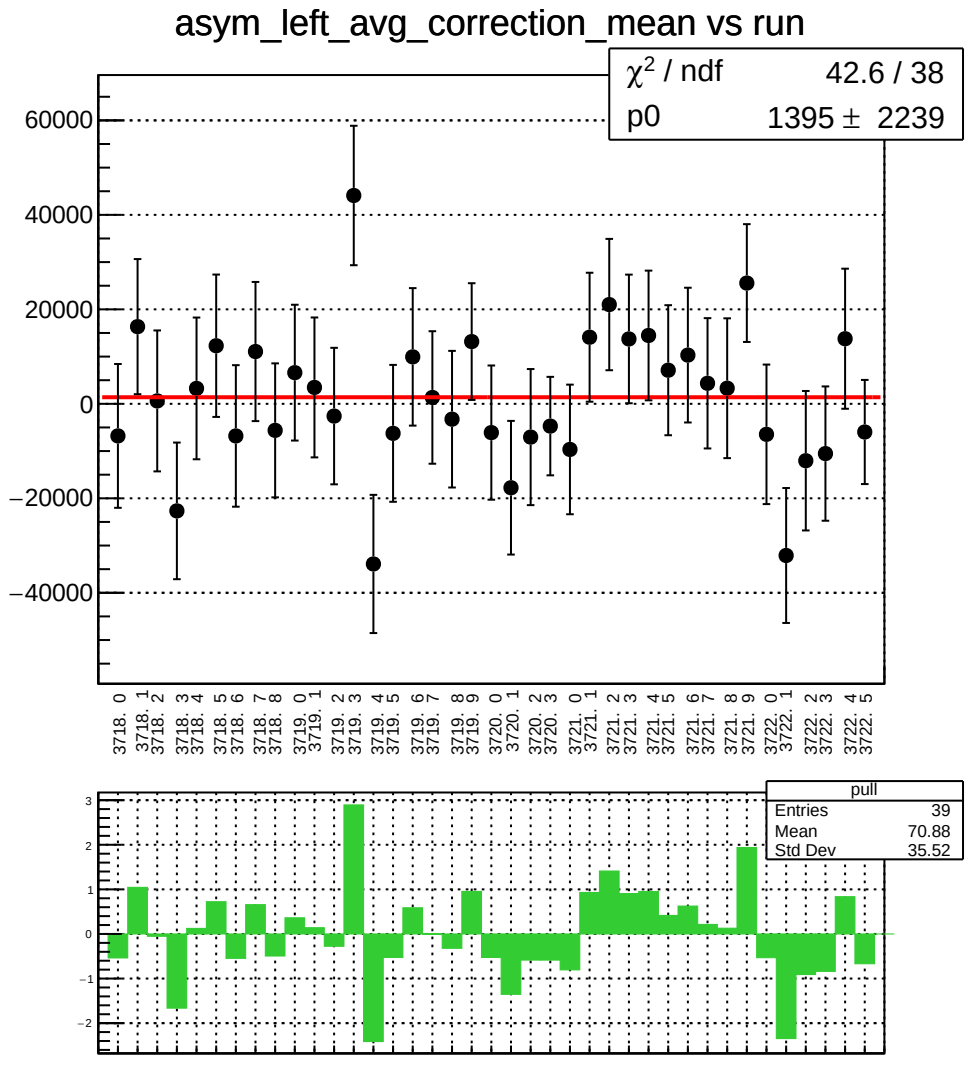

pull1D
Entries 39
Mean −0.008573
Std Dev 0.9984
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

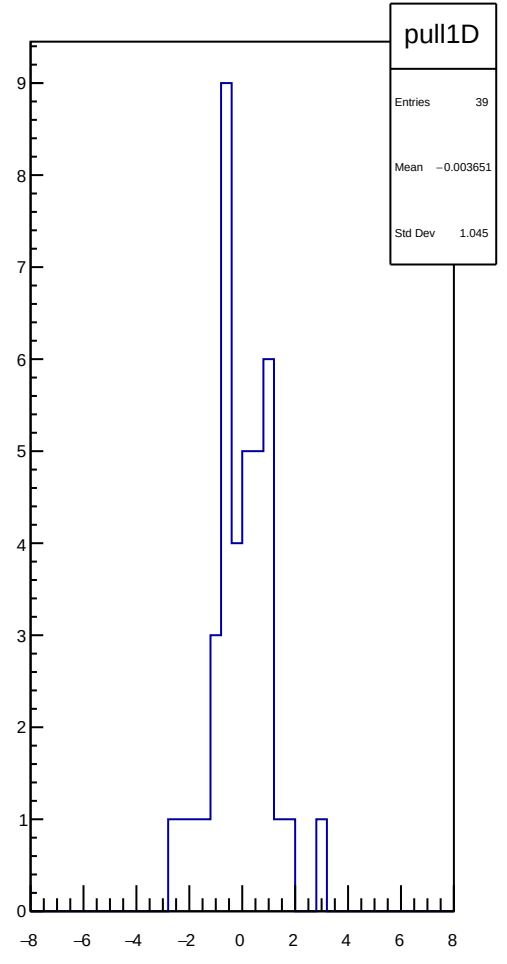

asym_dsr_rms vs run
χ² / ndf 312.6 / 38
p0 601.6 ± 0.6974
650
640
630
620
610
600
590
580
570
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

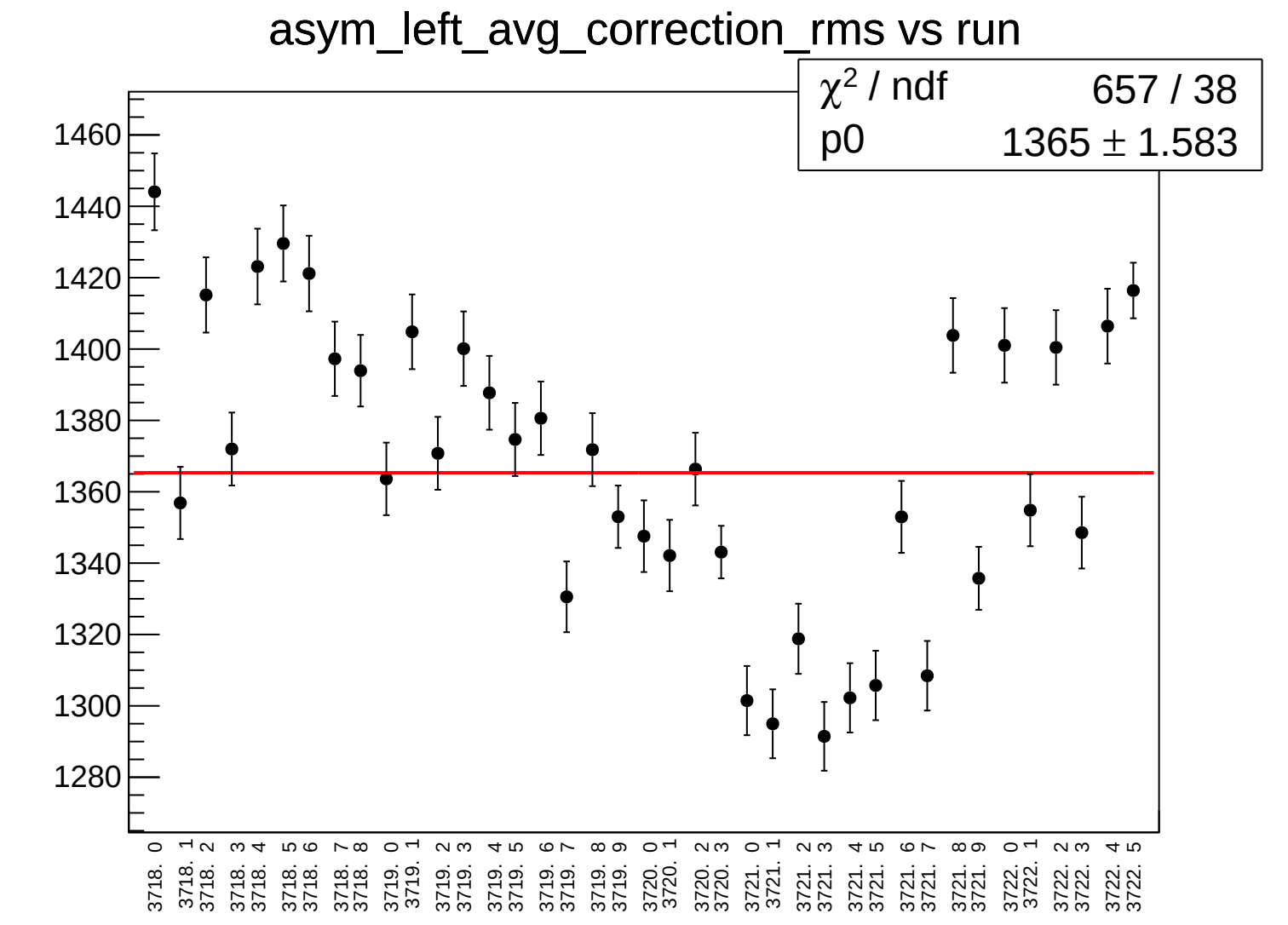

reg_asym_left_avg_mean vs run
χ² / ndf 38.03 / 38
p0 887.5 ± 816.7
20000
15000
10000
5000
0
−5000
−10000
−15000
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −1.736
Std Dev 53.19
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

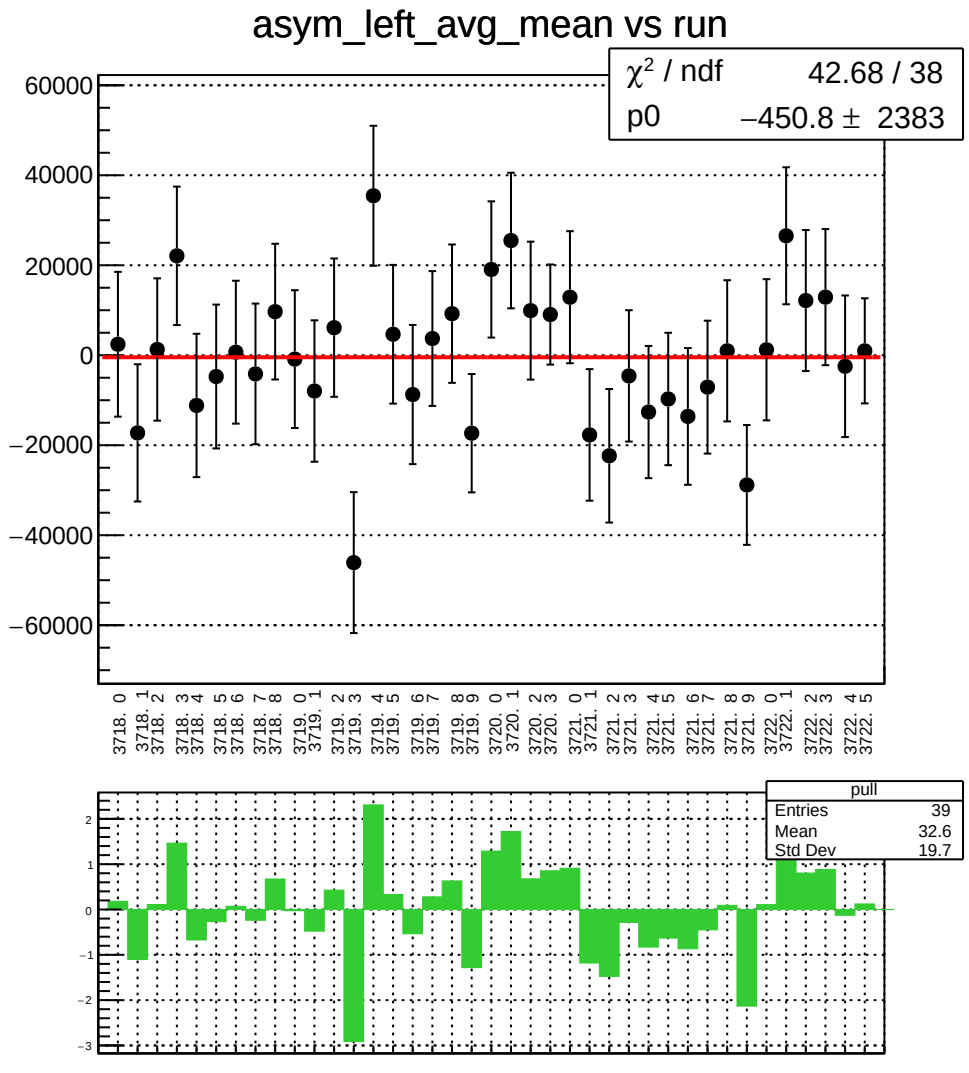

pull1D
Entries 39
Mean 0.01235
Std Dev 0.9874
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

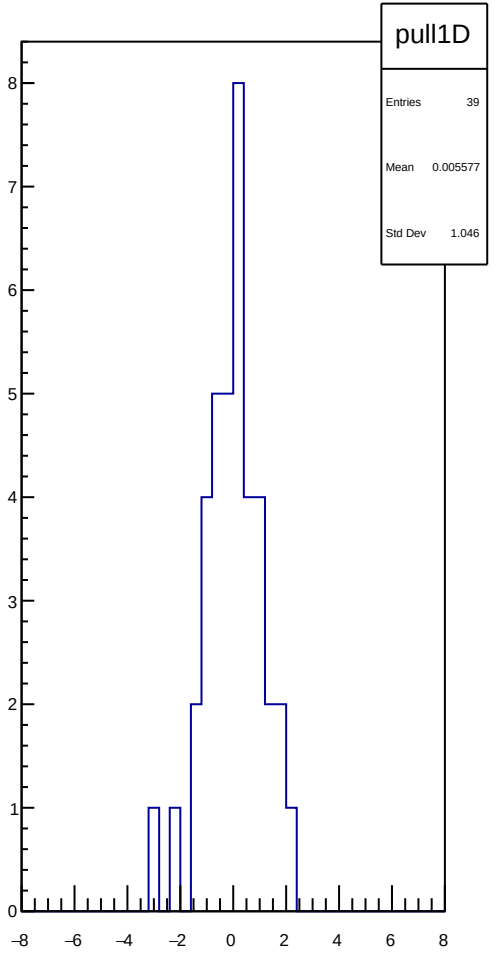

reg_asym_left_avg_rms vs run
χ² / ndf 37.09 / 38
p0 498.3 ± 0.5775
510
505
500
495
490
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

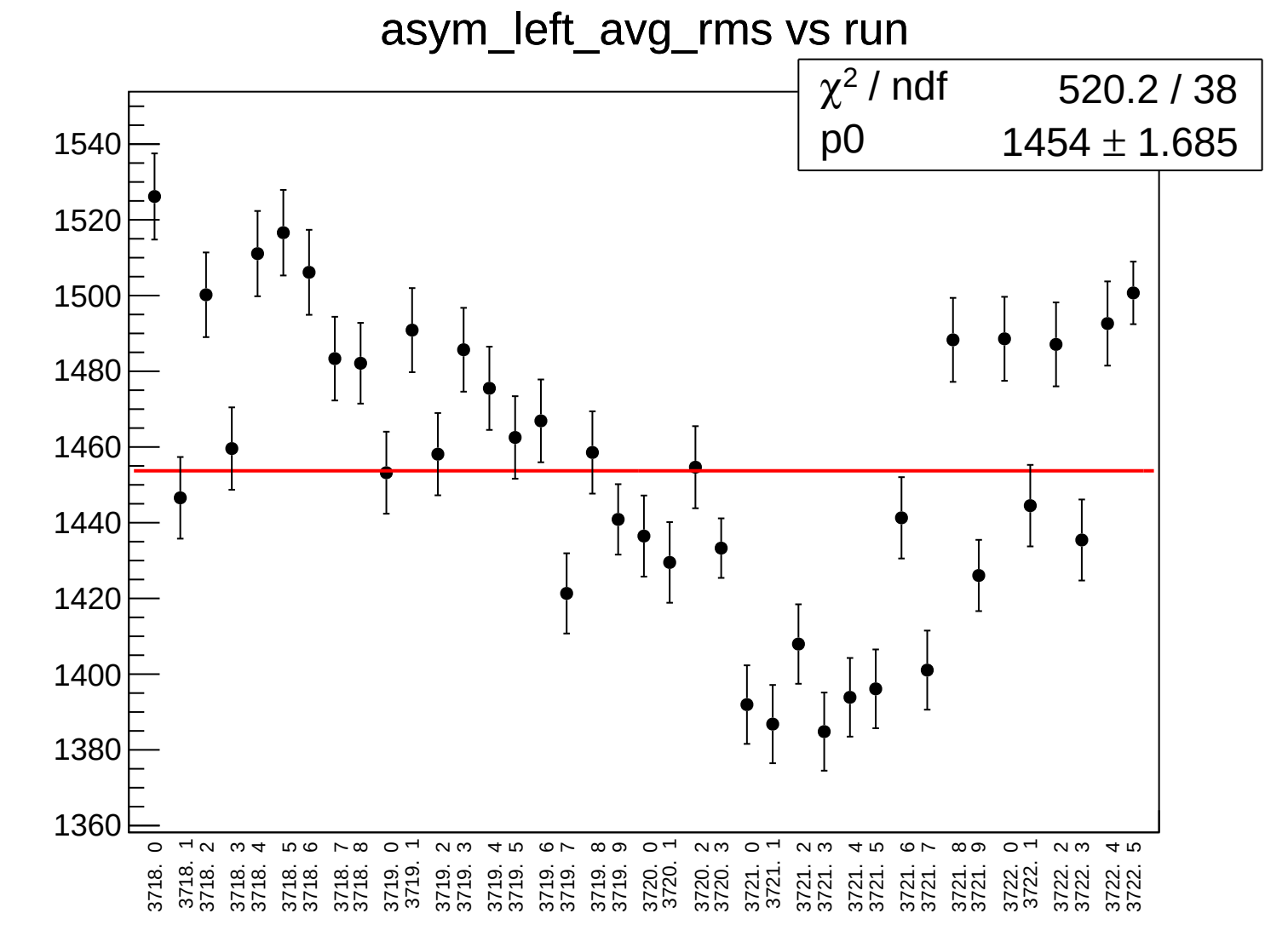

asym_left_avg_correction_mean vs run
χ² / ndf 42.6 / 38
p0 1395 ± 2239
60000
40000
20000
0
−20000
−40000
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 70.88
Std Dev 35.52
3
2
1
0
−1
−2

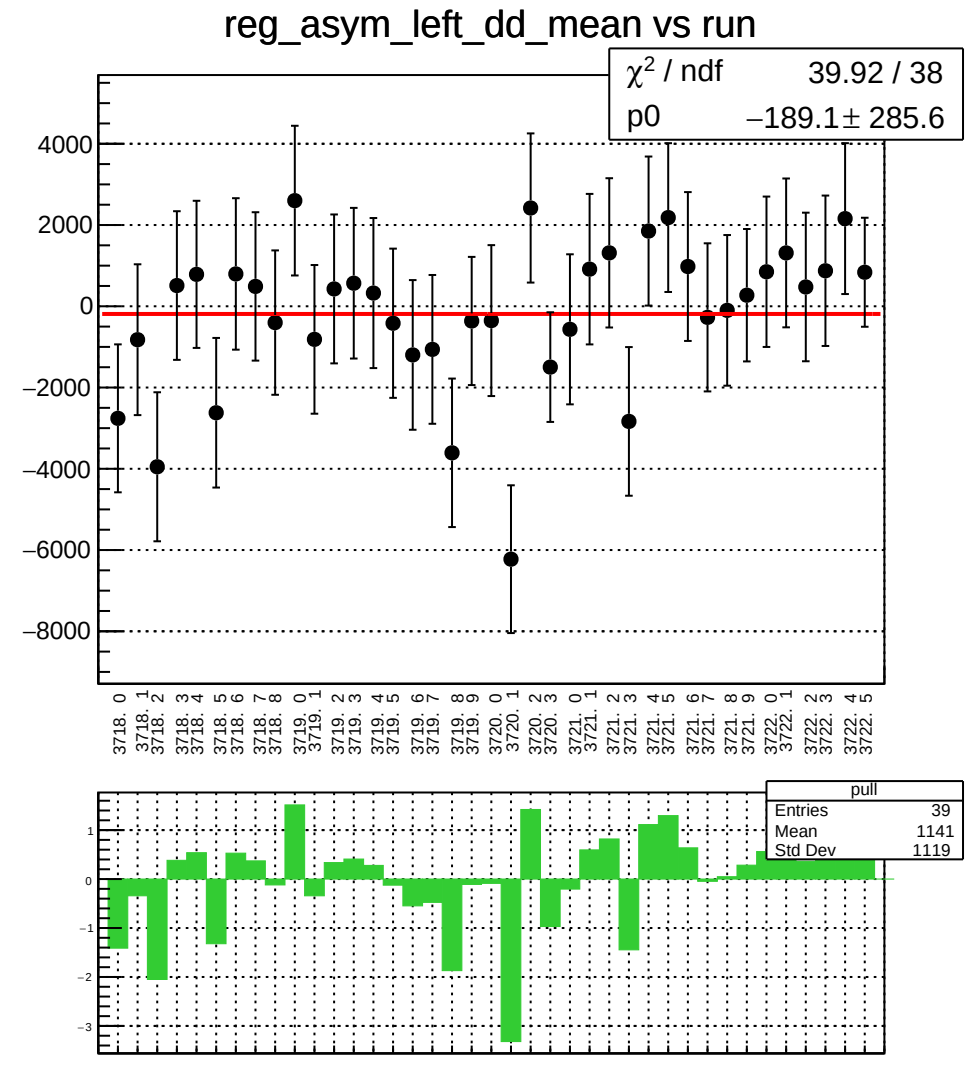

pull1D
Entries 39
Mean −0.003651
Std Dev 1.045
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

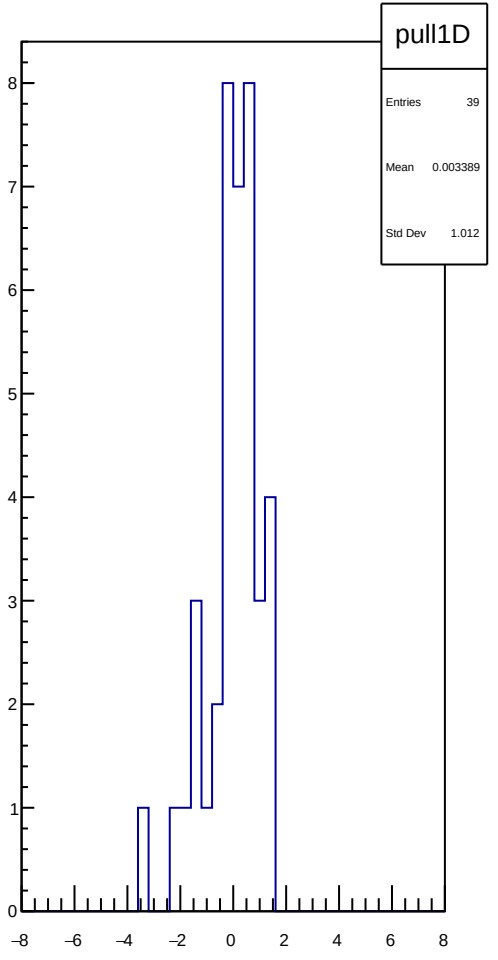

asym_left_avg_correction_rms vs run
χ² / ndf 657 / 38
p0 1365 ± 1.583
1460
1440
1420
1400
1380
1360
1340
1320
1300
1280
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

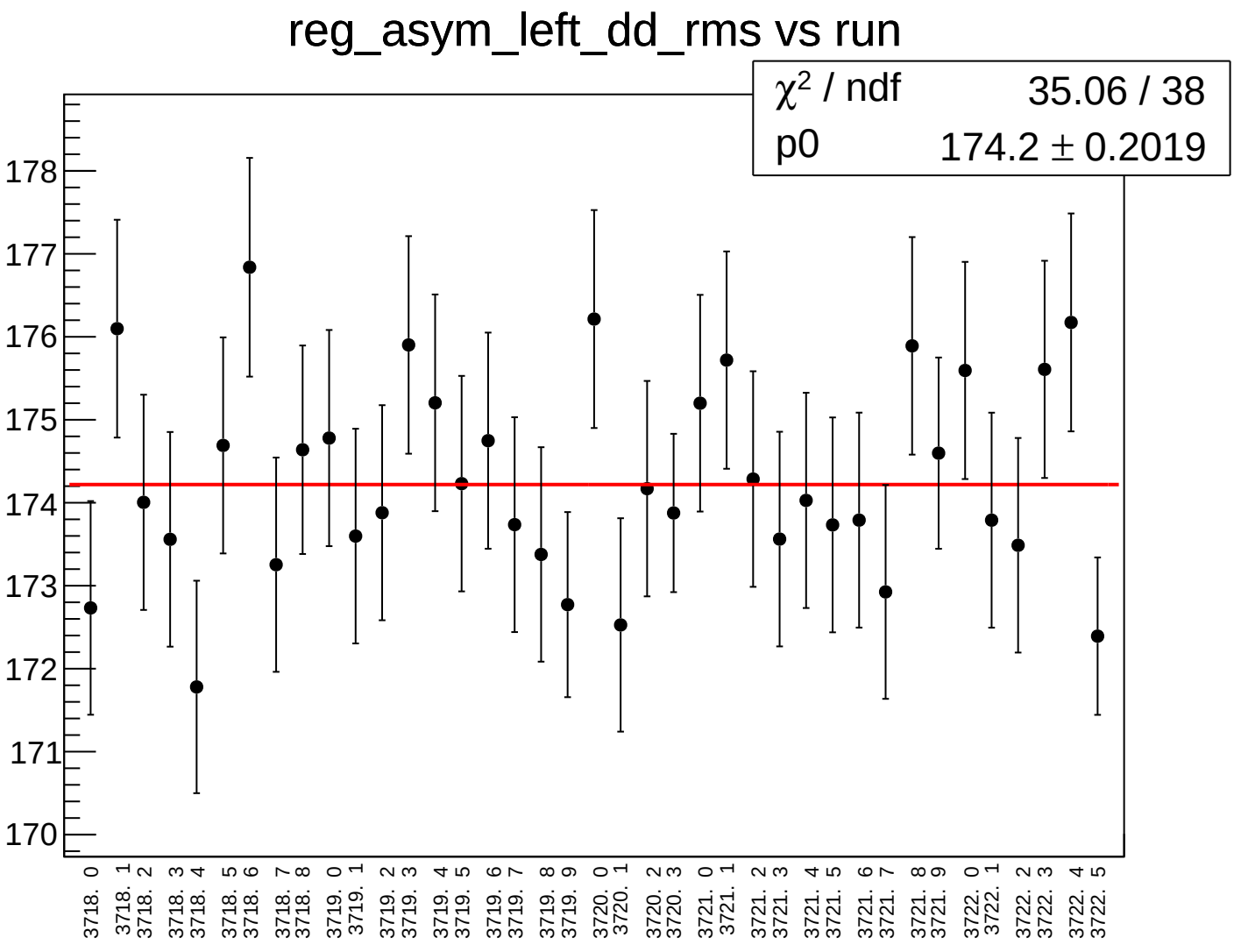

asym_left_avg_mean vs run
χ² / ndf 42.68 / 38
p0 −450.8 ± 2383
60000
40000
20000
0
−20000
−40000
−60000
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 32.6
Std Dev 19.7
2
1
0
−1
−2
−3

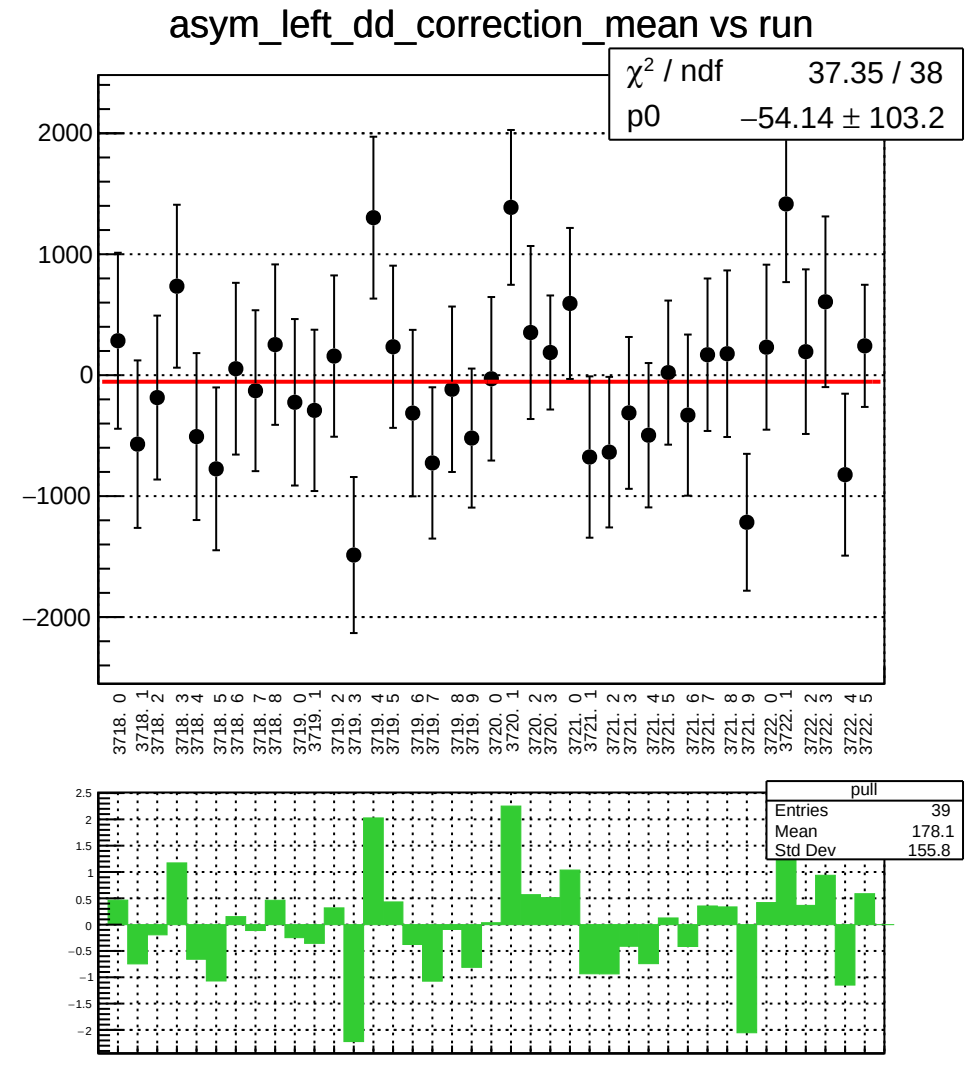

pull1D
Entries 39
Mean 0.005577
Std Dev 1.046
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

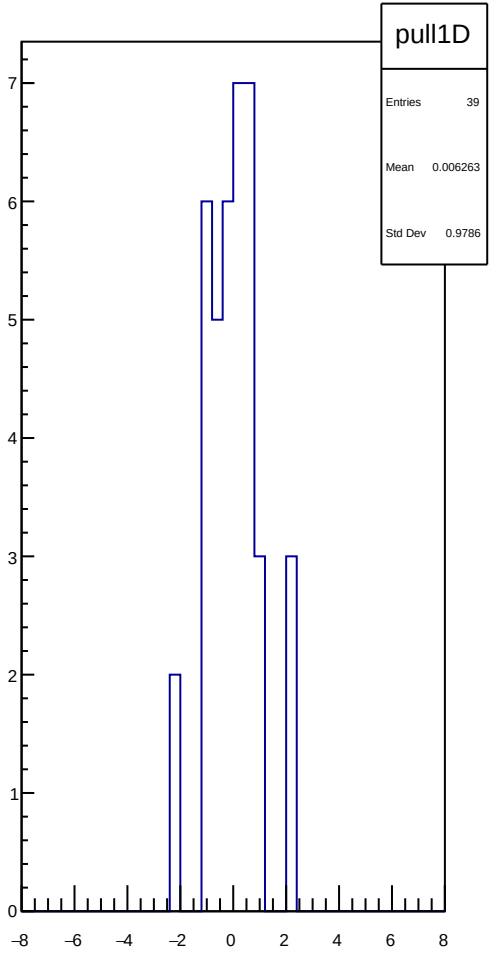

asym_left_avg_rms vs run
χ² / ndf 520.2 / 38
p0 1454 ± 1.685
1540
1520
1500
1480
1460
1440
1420
1400
1380
1360
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

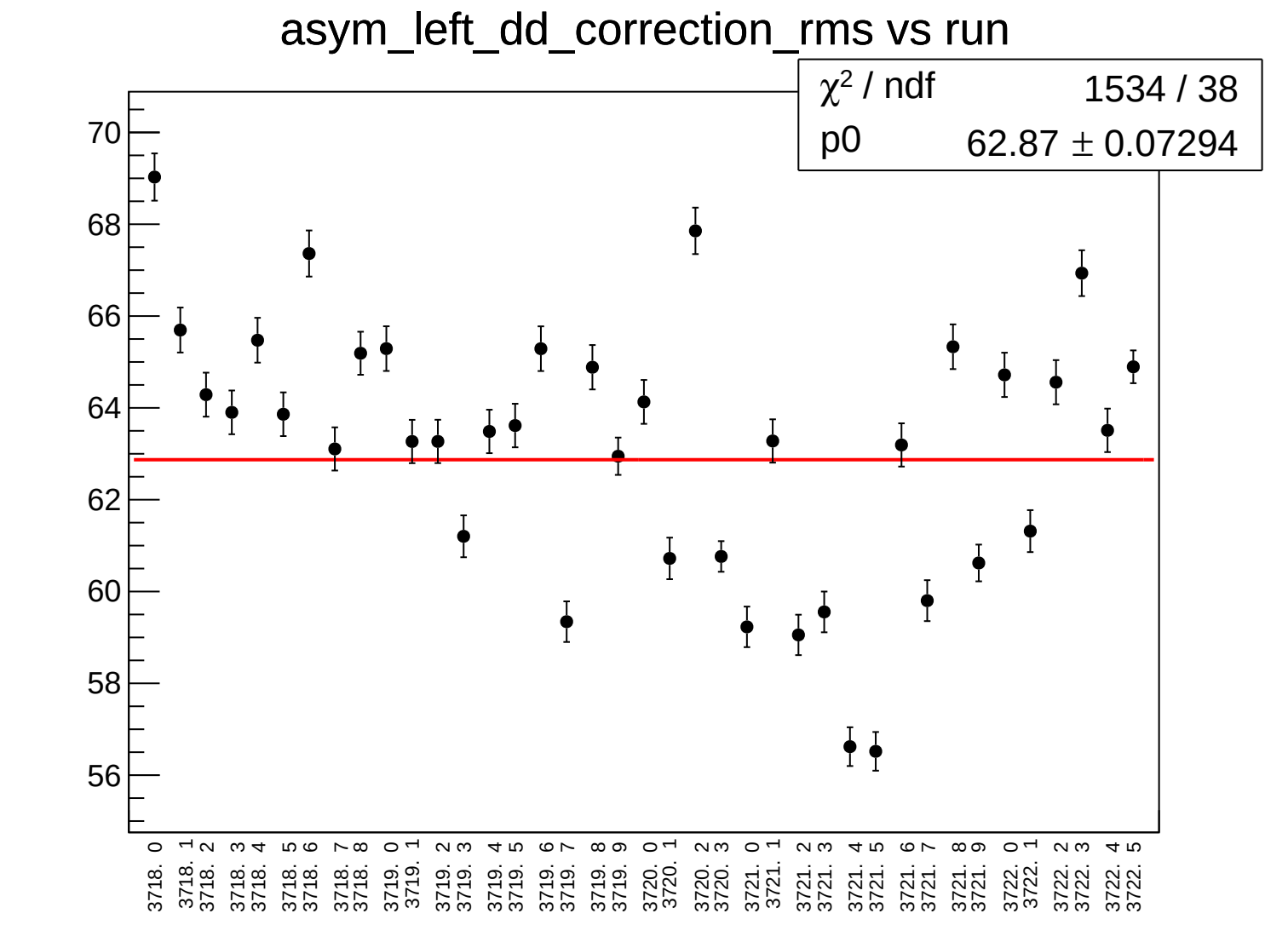

reg_asym_left_dd_mean vs run
χ² / ndf 39.92 / 38
p0 −189.1± 285.6
4000
2000
0
−2000
−4000
−6000
−8000
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 1141
Std Dev 1119
1
0
−1
−2
−3

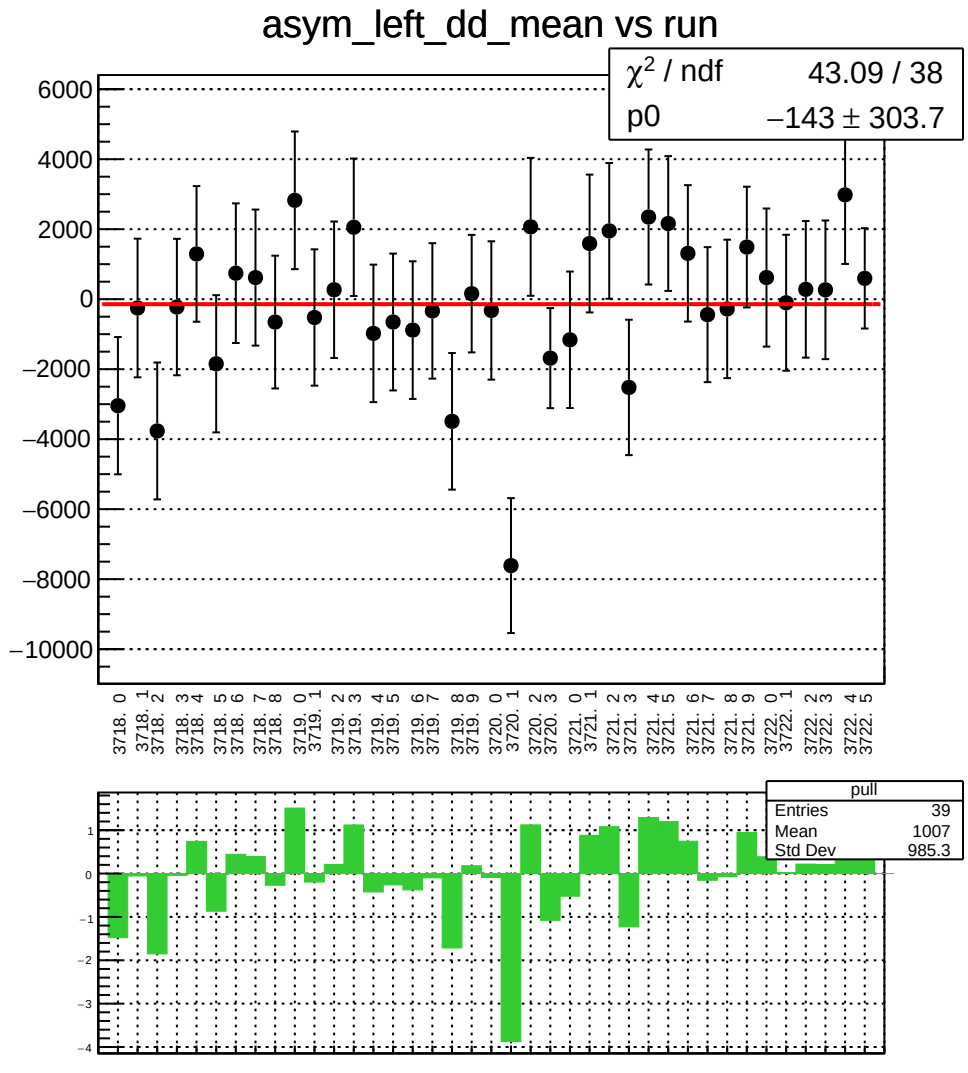

pull1D
Entries 39
Mean 0.003389
Std Dev 1.012
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

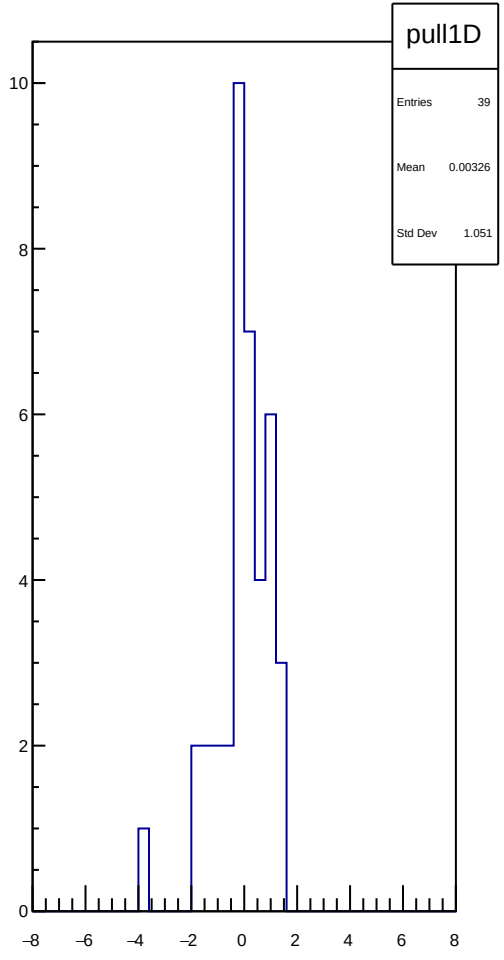

reg_asym_left_dd_rms vs run
χ² / ndf 35.06 / 38
p0 174.2 ± 0.2019
178
177
176
175
174
173
172
171
170
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

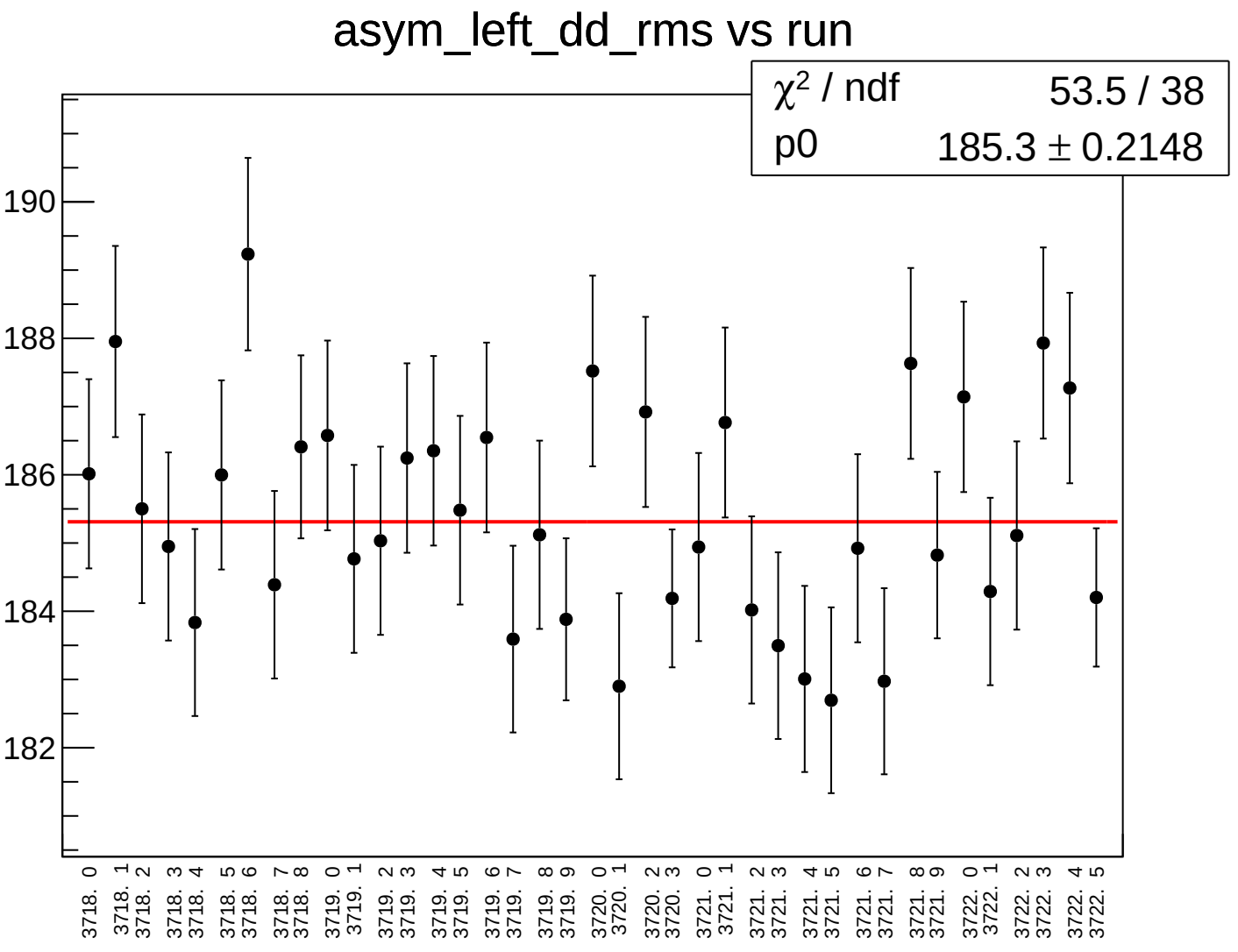

asym_left_dd_correction_mean vs run
χ² / ndf 37.35 / 38
p0 −54.14 ± 103.2
2000
1000
0
−1000
−2000
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 178.1
Std Dev 155.8
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

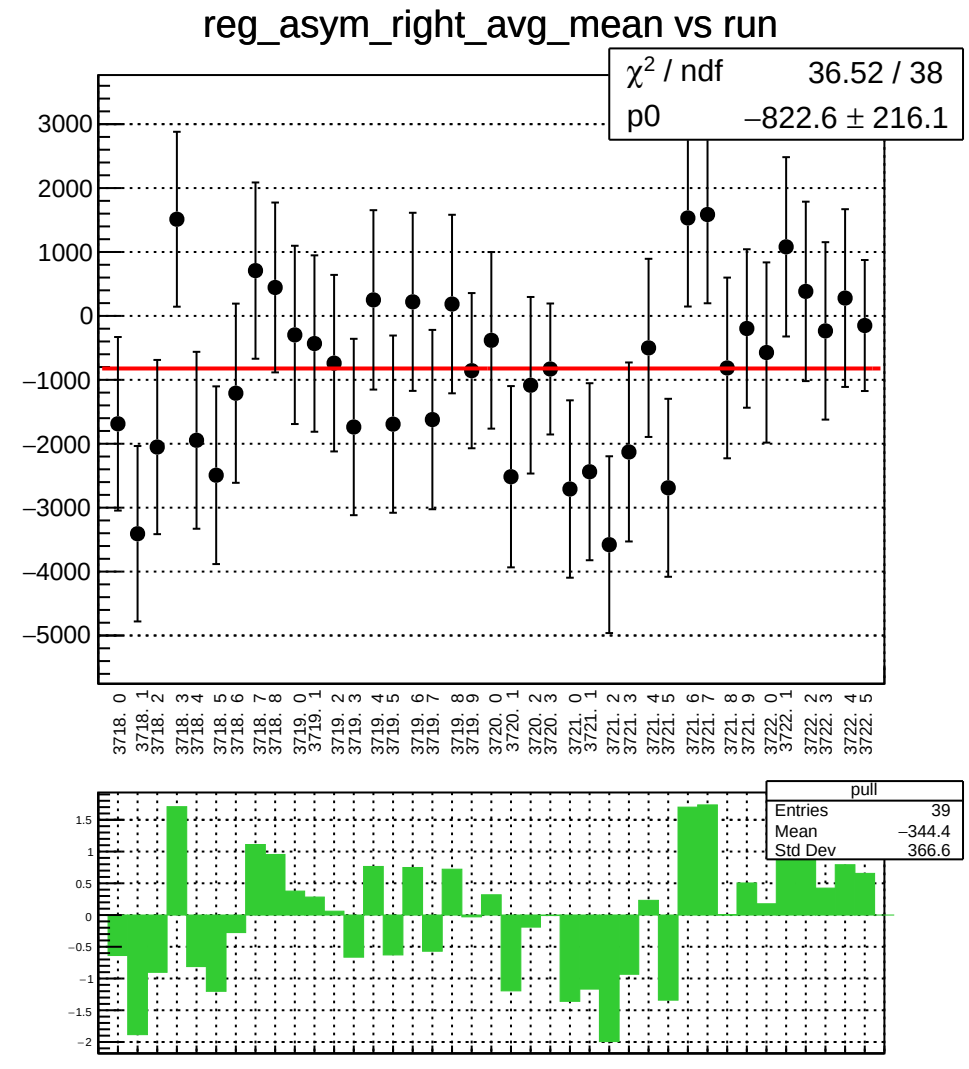

pull1D
Entries 39
Mean 0.006263
Std Dev 0.9786
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

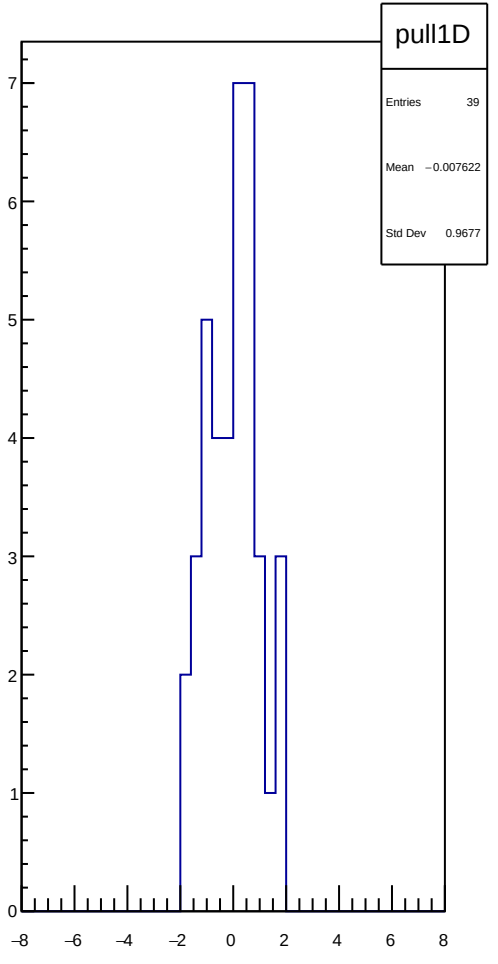

asym_left_dd_correction_rms vs run
χ² / ndf 1534 / 38
p0 62.87 ± 0.07294
70
68
66
64
62
60
58
56
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

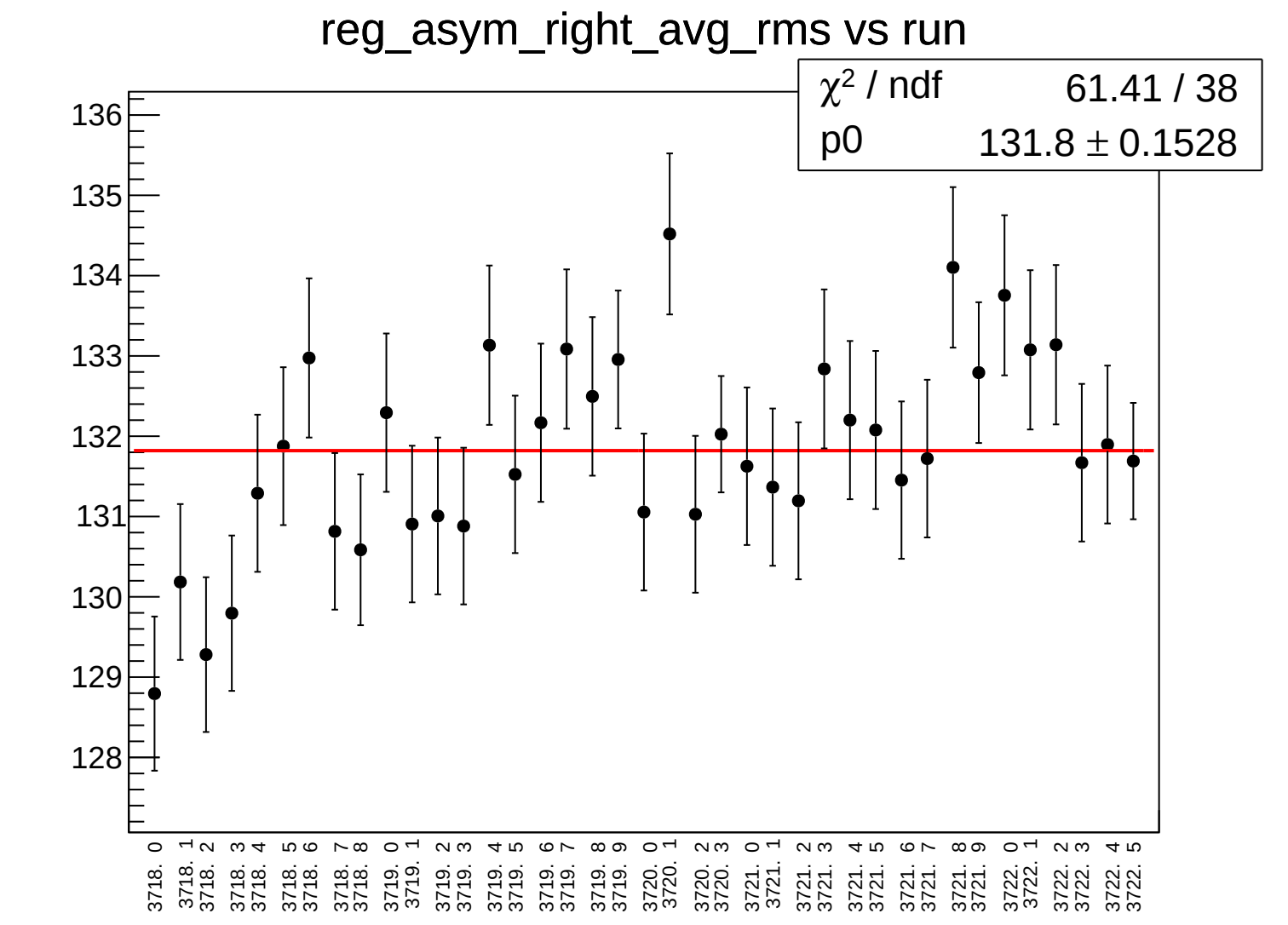

asym_left_dd_mean vs run
χ² / ndf 43.09 / 38
p0 −143 ± 303.7
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 1007
Std Dev 985.3
1
0
−1
−2
−3
−4

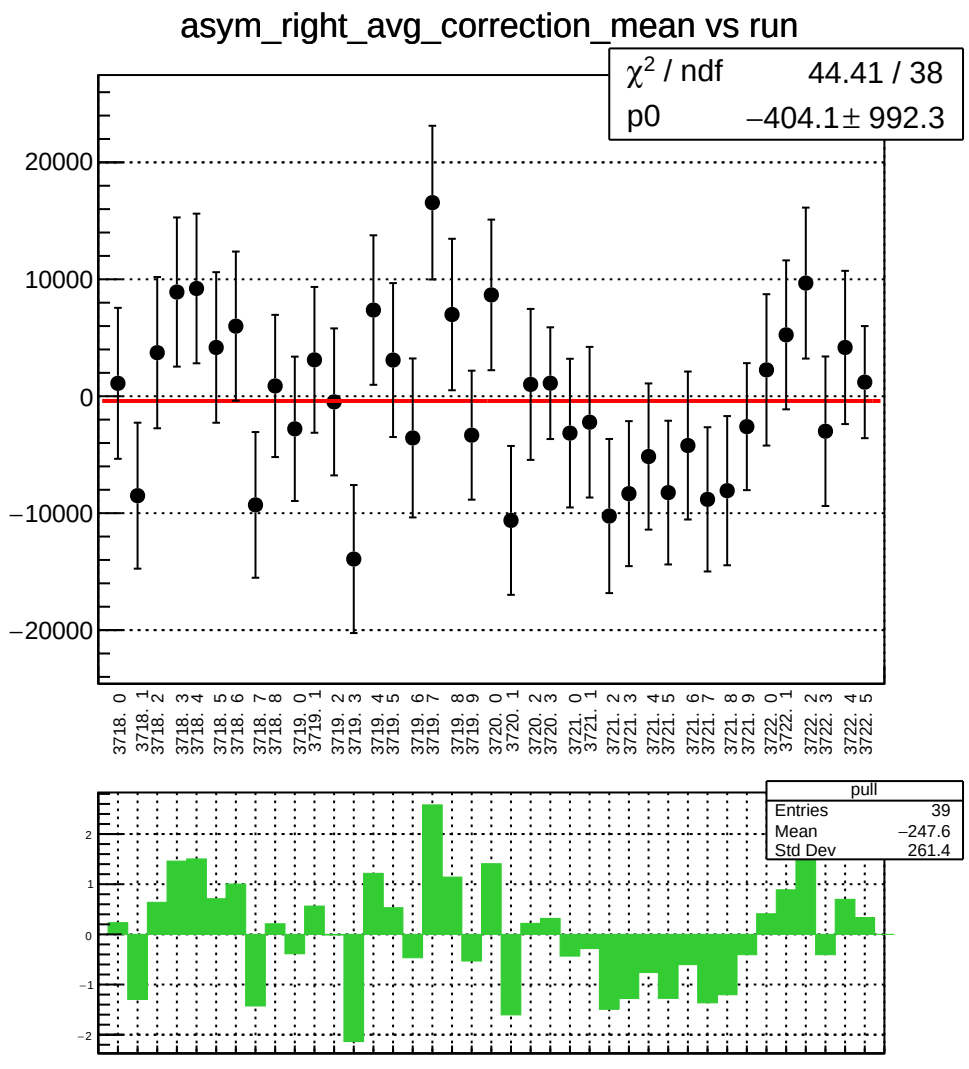

pull1D
Entries 39
Mean 0.00326
Std Dev 1.051
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

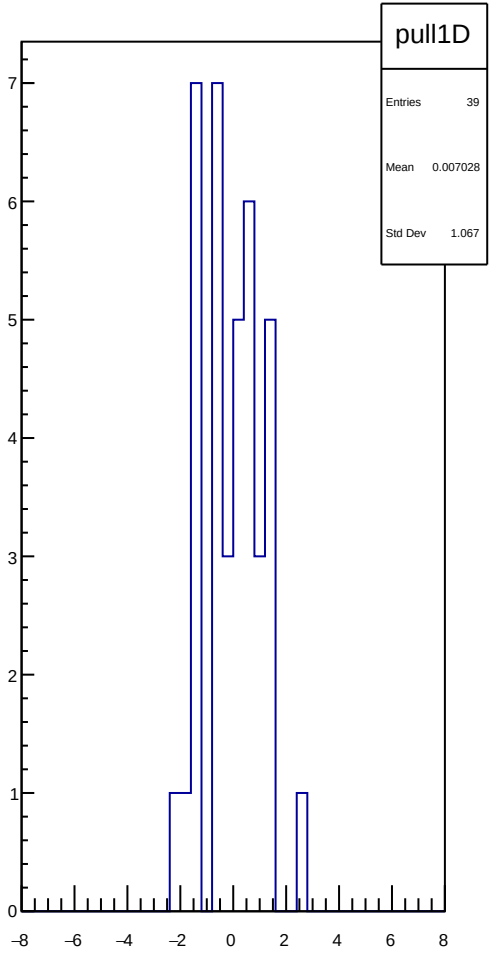

asym_left_dd_rms vs run
χ² / ndf 53.5 / 38
p0 185.3 ± 0.2148
190
188
186
184
182
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

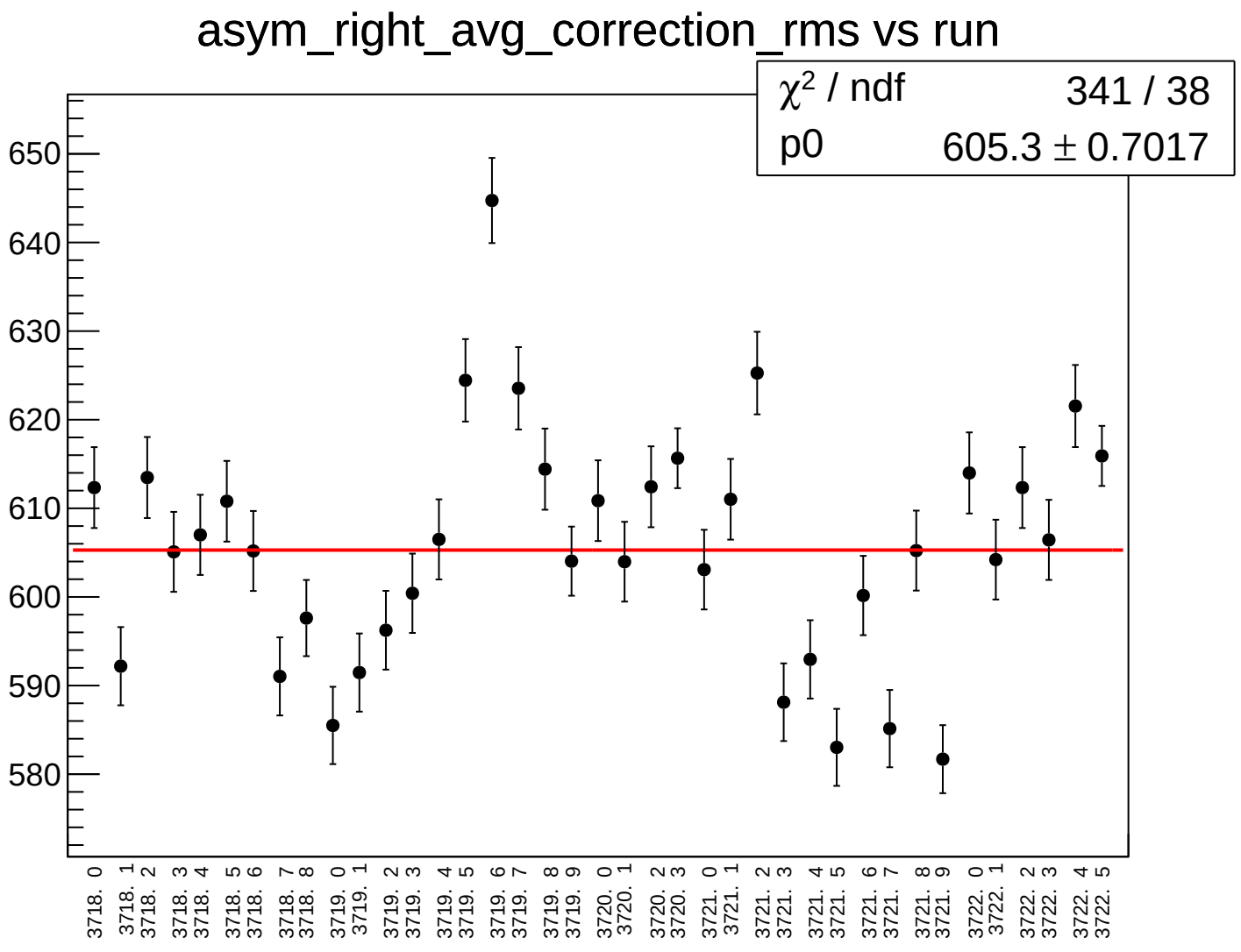

reg_asym_right_avg_mean vs run
χ² / ndf 36.52 / 38
p0 −822.6 ± 216.1
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −344.4
Std Dev 366.6
1.5
1
0.5
0
−0.5
−1
−1.5
−2

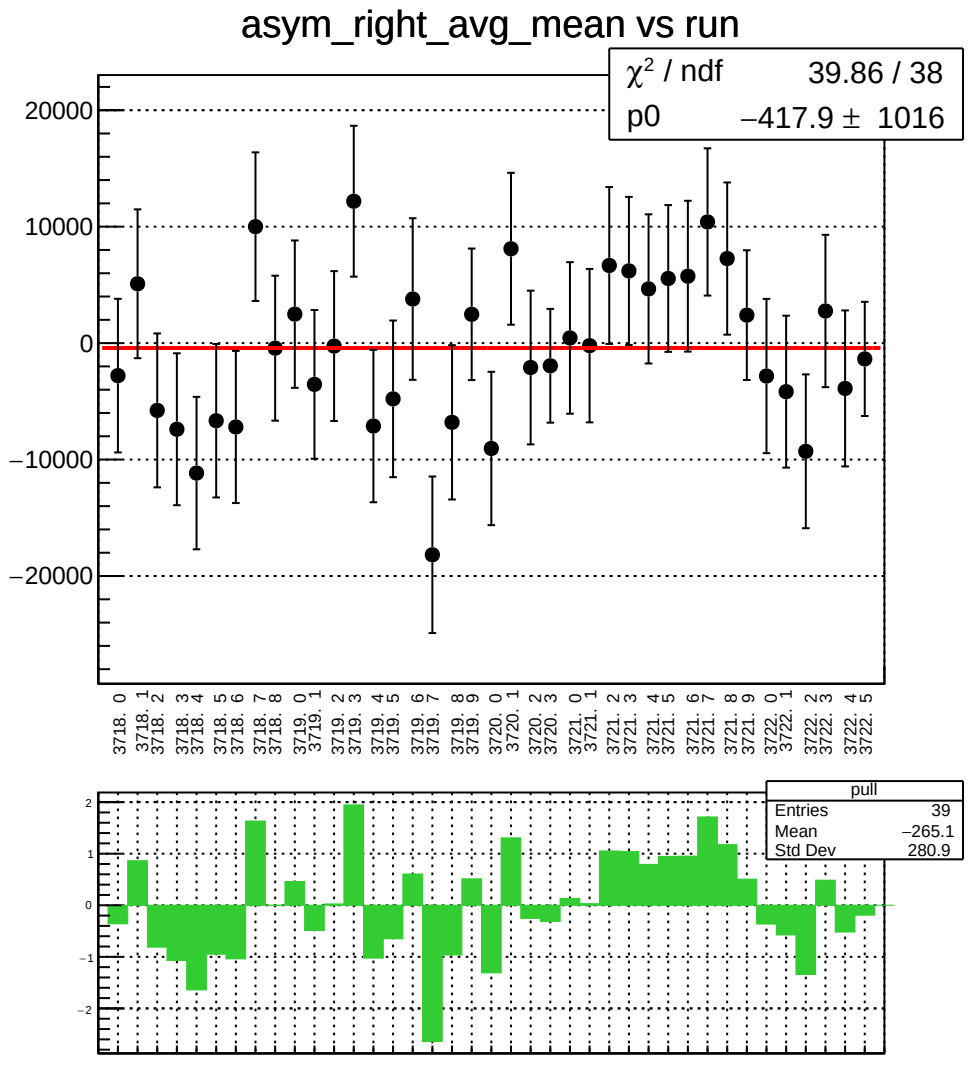

pull1D
Entries 39
Mean −0.007622
Std Dev 0.9677
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

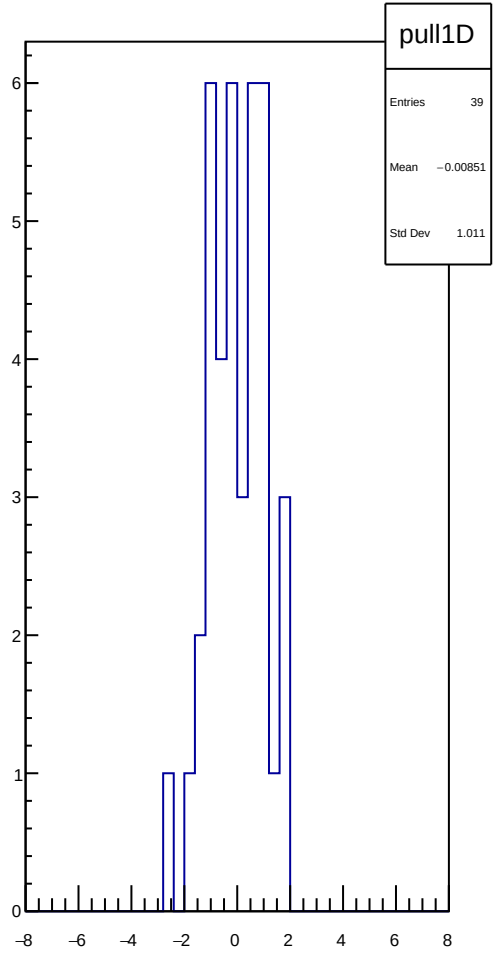

reg_asym_right_avg_rms vs run
χ² / ndf 61.41 / 38
p0 131.8 ± 0.1528
136
135
134
133
132
131
130
129
128
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

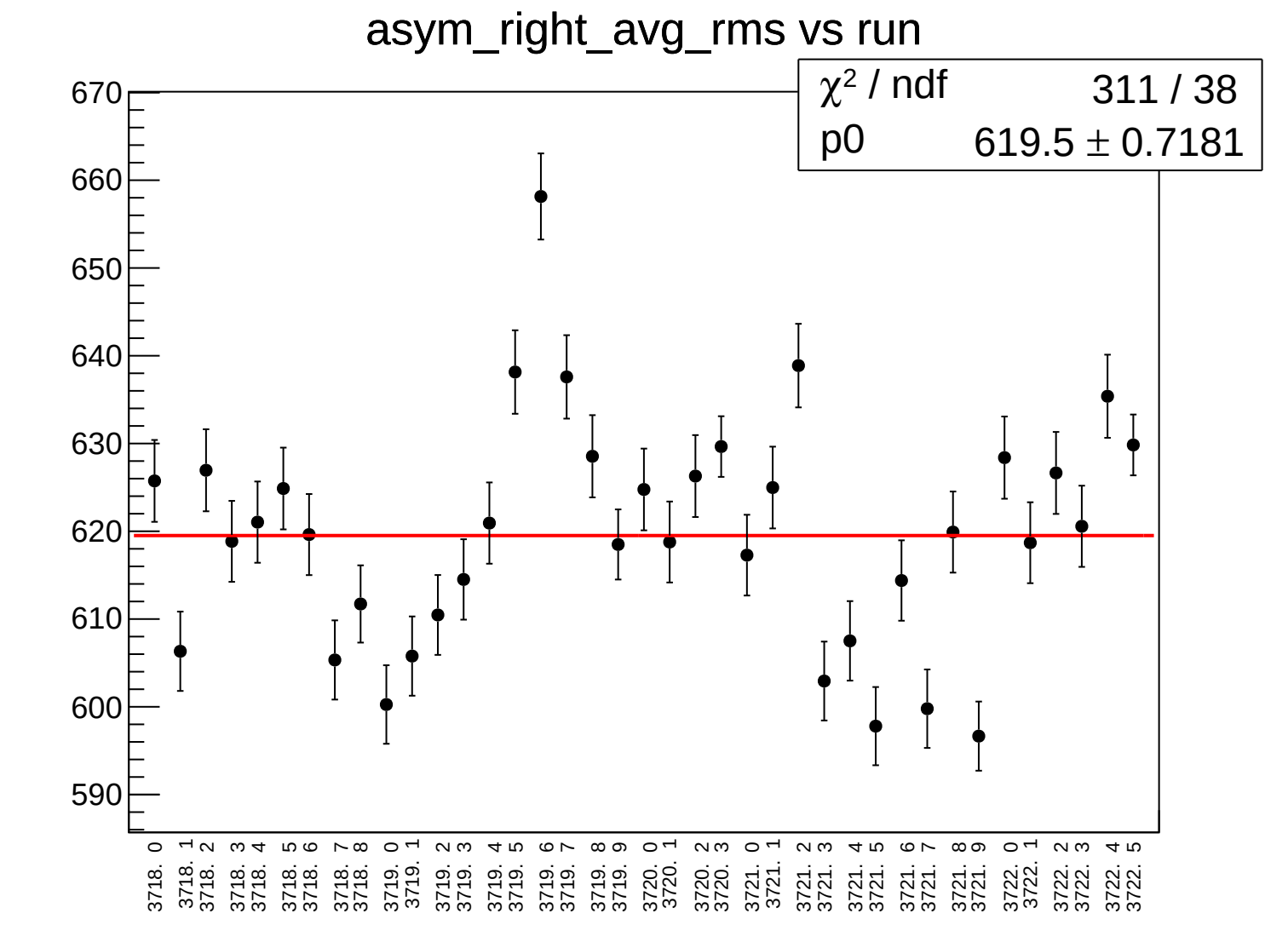

asym_right_avg_correction_mean vs run
χ² / ndf 44.41 / 38
p0 −404.1± 992.3
20000
10000
0
−10000
−20000
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −247.6
Std Dev 261.4
2
1
0
−1
−2

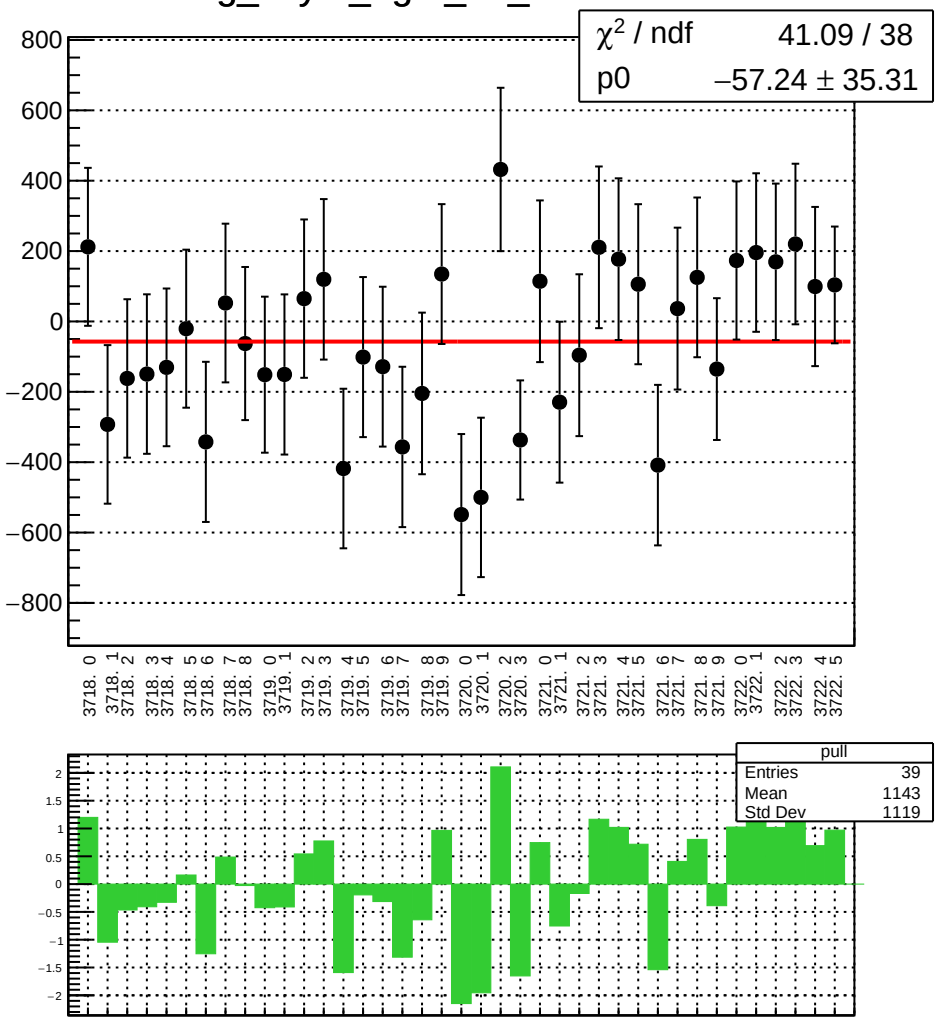

pull1D
Entries 39
Mean 0.007028
Std Dev 1.067
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

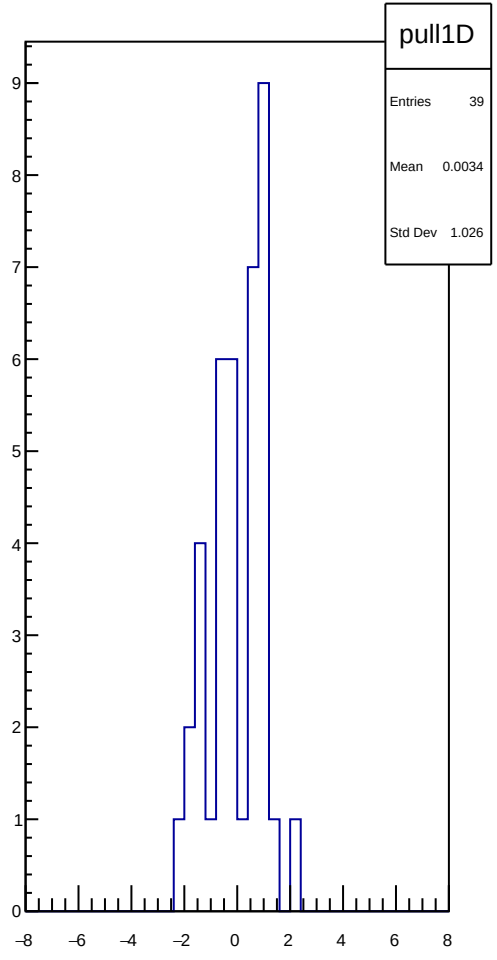

asym_right_avg_correction_rms vs run
χ² / ndf 341 / 38
p0 605.3 ± 0.7017
650
640
630
620
610
600
590
580
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

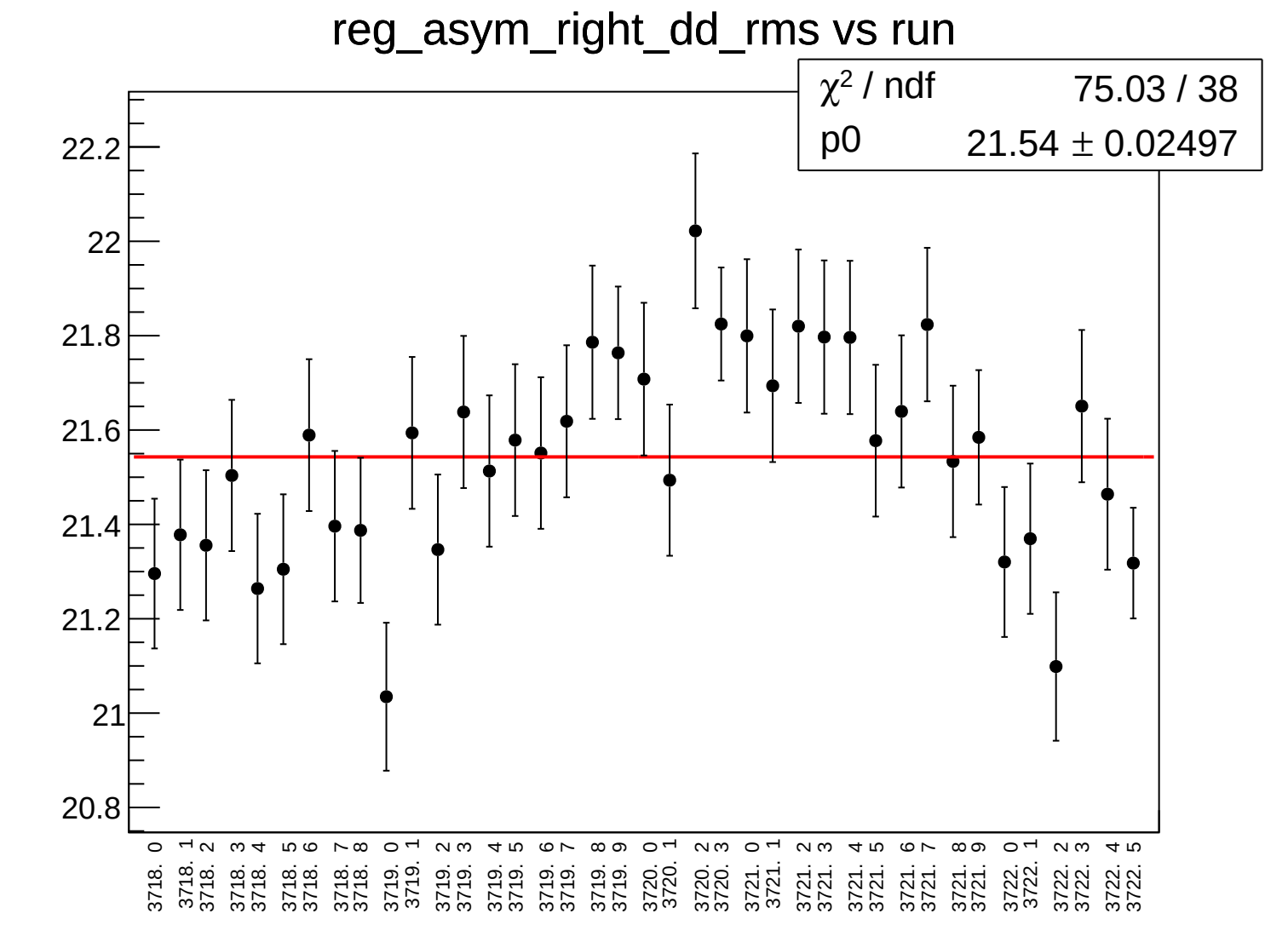

asym_right_avg_mean vs run
χ² / ndf 39.86 / 38
p0 −417.9 ± 1016
20000
10000
0
−10000
−20000
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −265.1
Std Dev 280.9
2
1
0
−1
−2

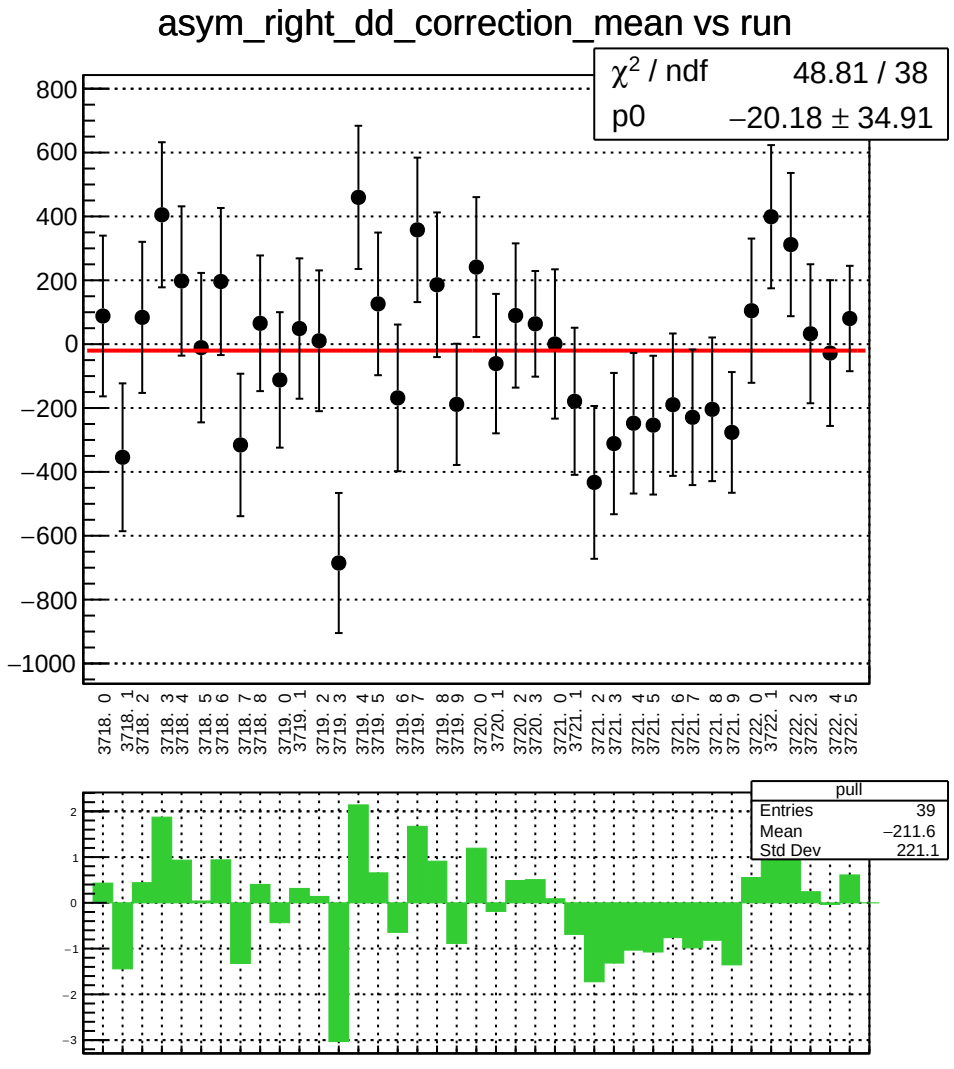

pull1D
Entries 39
Mean −0.00851
Std Dev 1.011
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

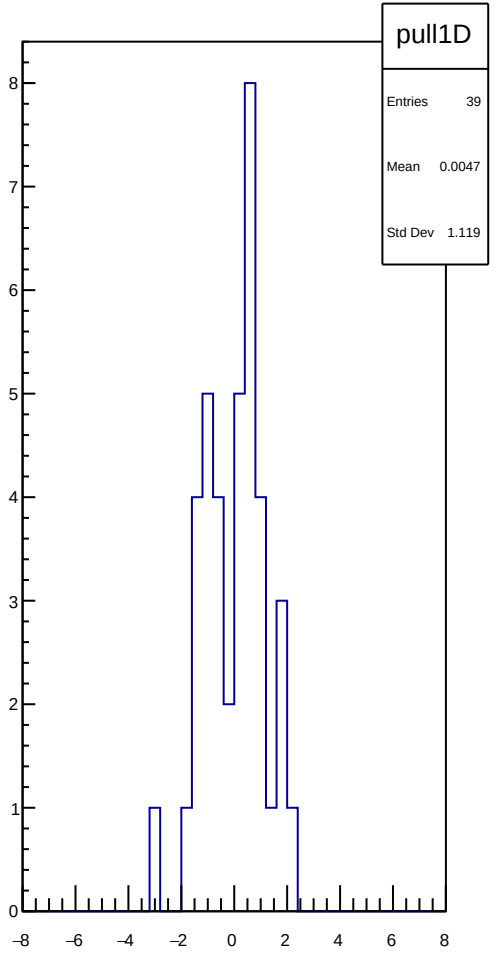

asym_right_avg_rms vs run
χ² / ndf 311 / 38
p0 619.5 ± 0.7181
670
660
650
640
630
620
610
600
590
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

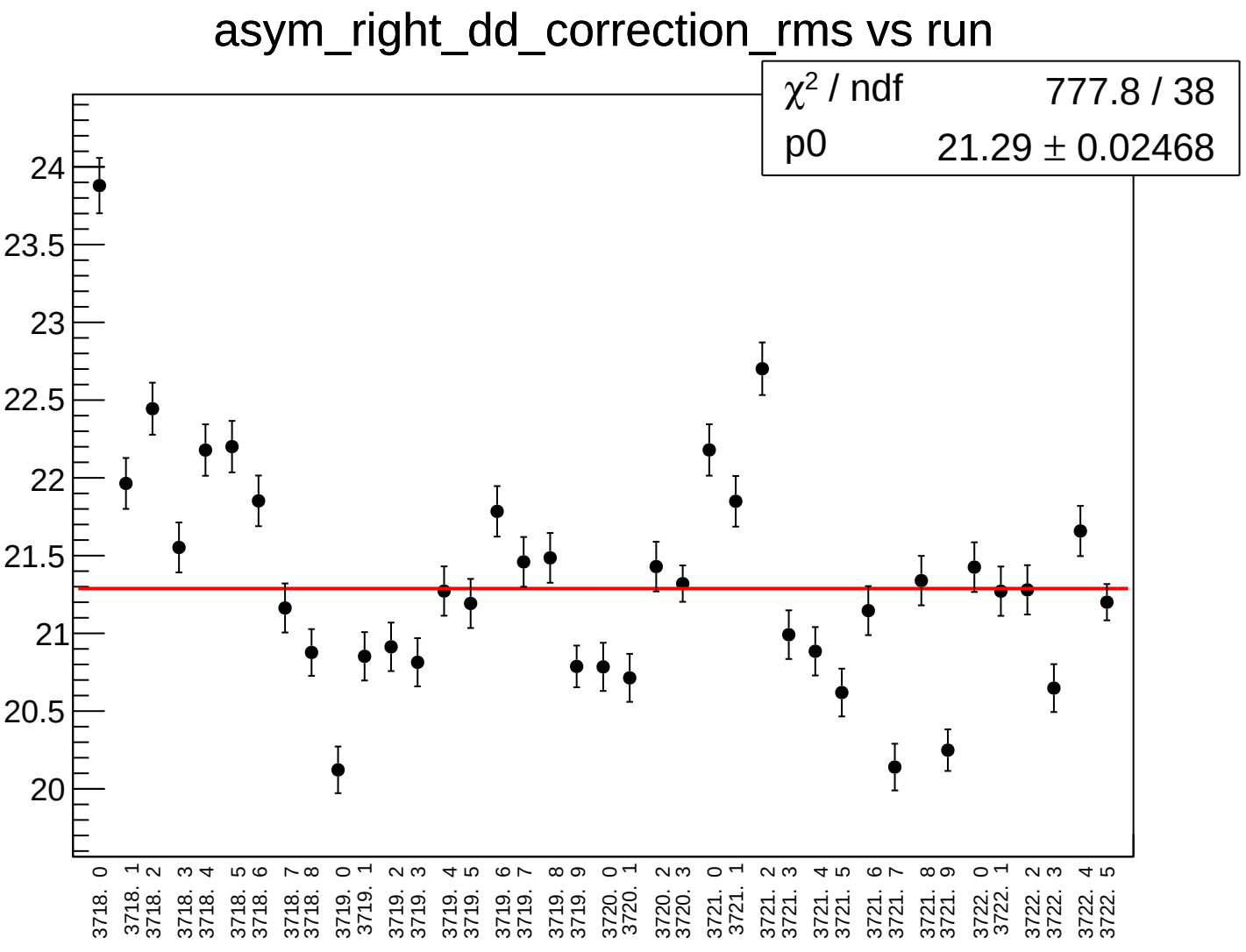

reg_asym_right_dd_mean vs run
χ^2 / ndf 41.09 / 38
p0 −57.24 ± 35.31
pull
Entries 39
Mean 1143
Std Dev 1119

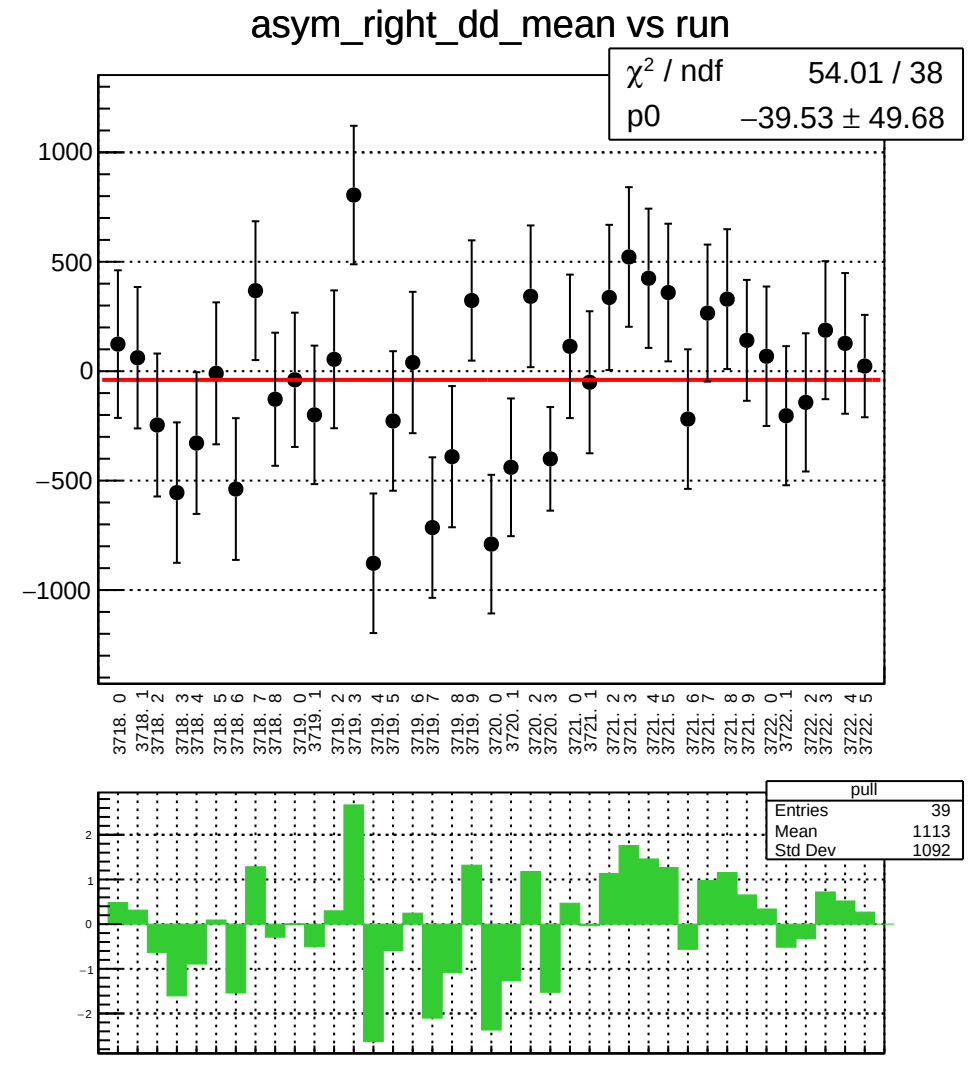

pull1D
Entries 39
Mean 0.0034
Std Dev 1.026

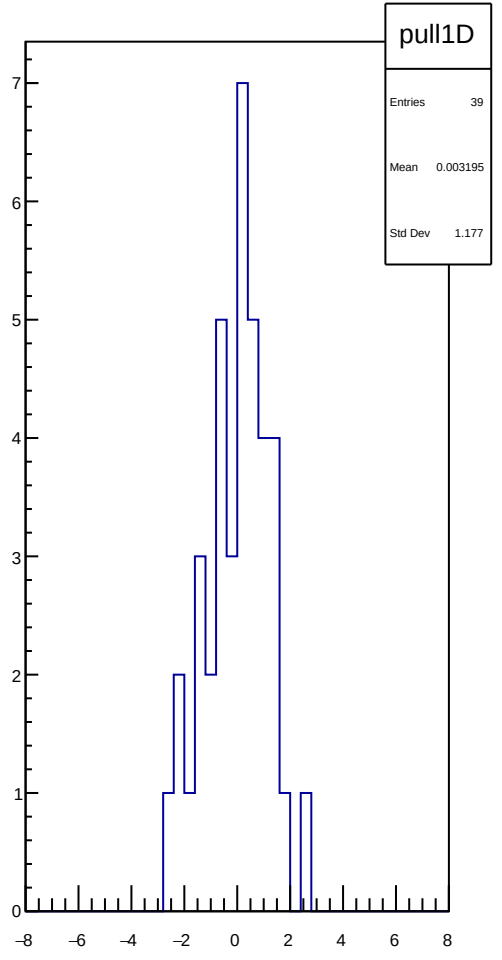

reg_asym_right_dd_rms vs run
χ² / ndf 75.03 / 38
p0 21.54 ± 0.02497
22.2
22
21.8
21.6
21.4
21.2
21
20.8
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

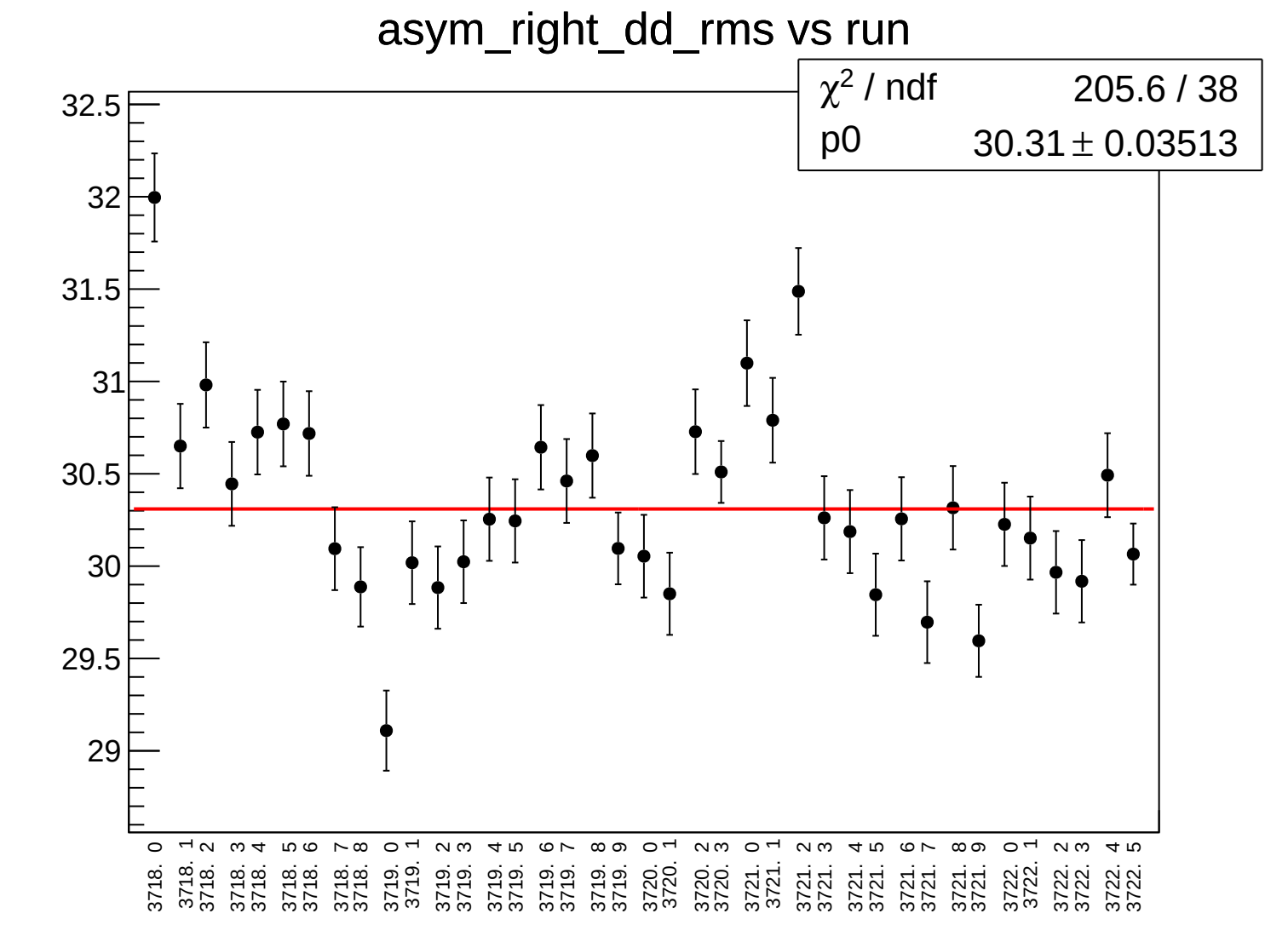

asym_right_dd_correction_mean vs run
χ² / ndf 48.81 / 38
p0 −20.18 ± 34.91
pull
Entries 39
Mean −211.6
Std Dev 221.1

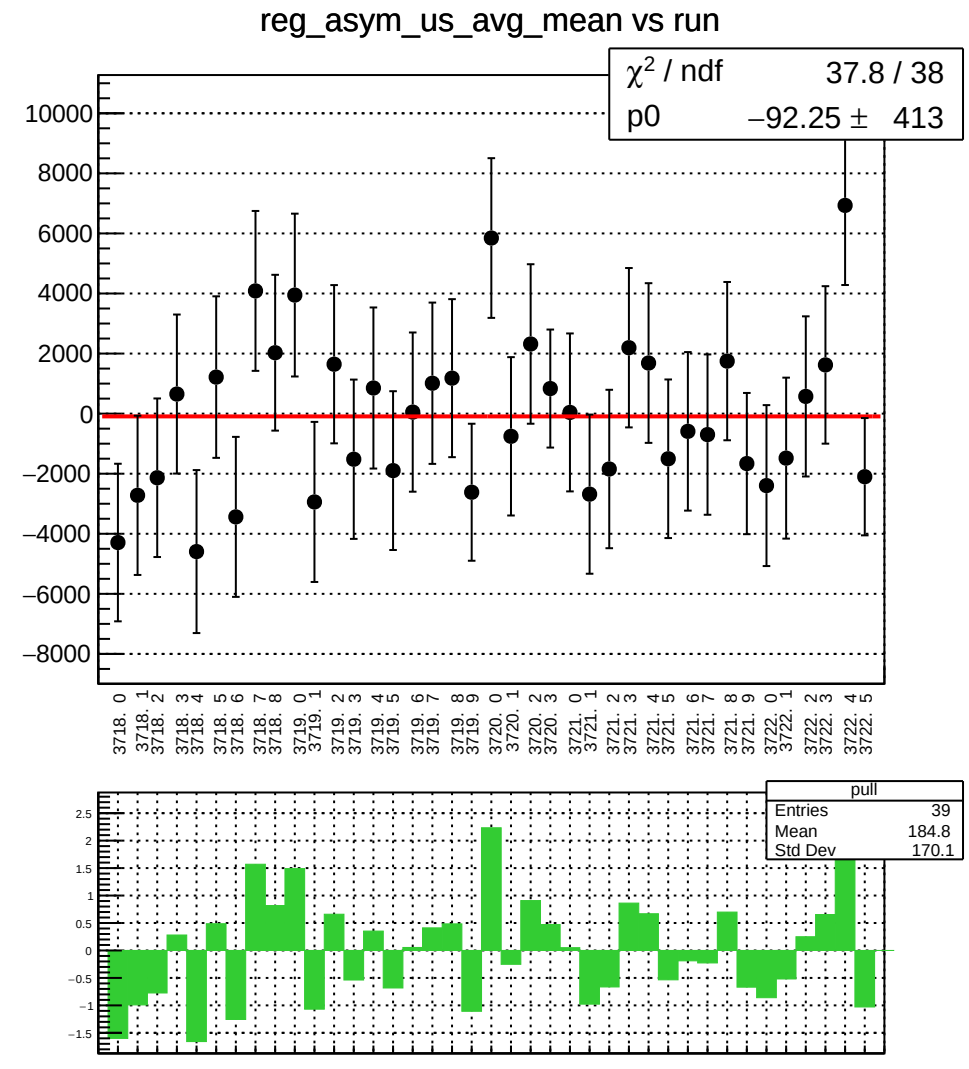

pull1D
Entries 39
Mean 0.0047
Std Dev 1.119

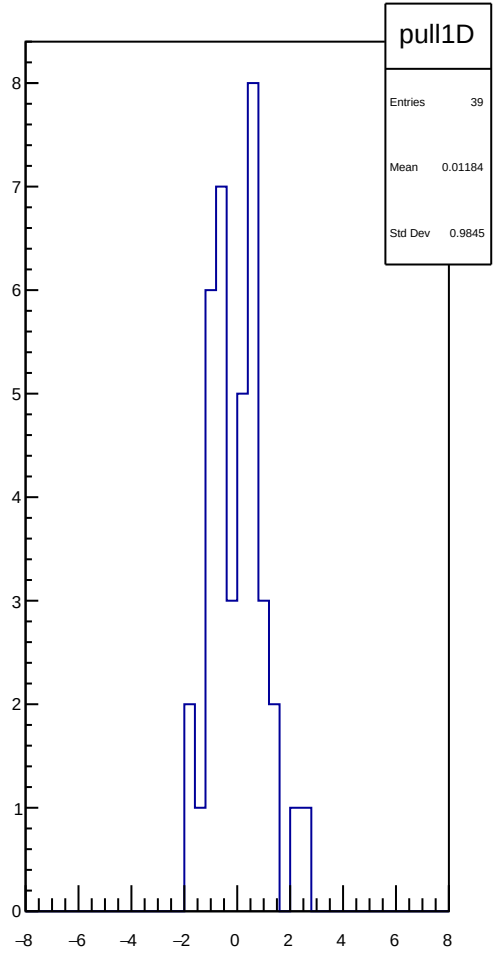

asym_right_dd_correction_rms vs run
χ² / ndf 777.8 / 38
p0 21.29 ± 0.02468
24
23.5
23
22.5
22
21.5
21
20.5
20
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

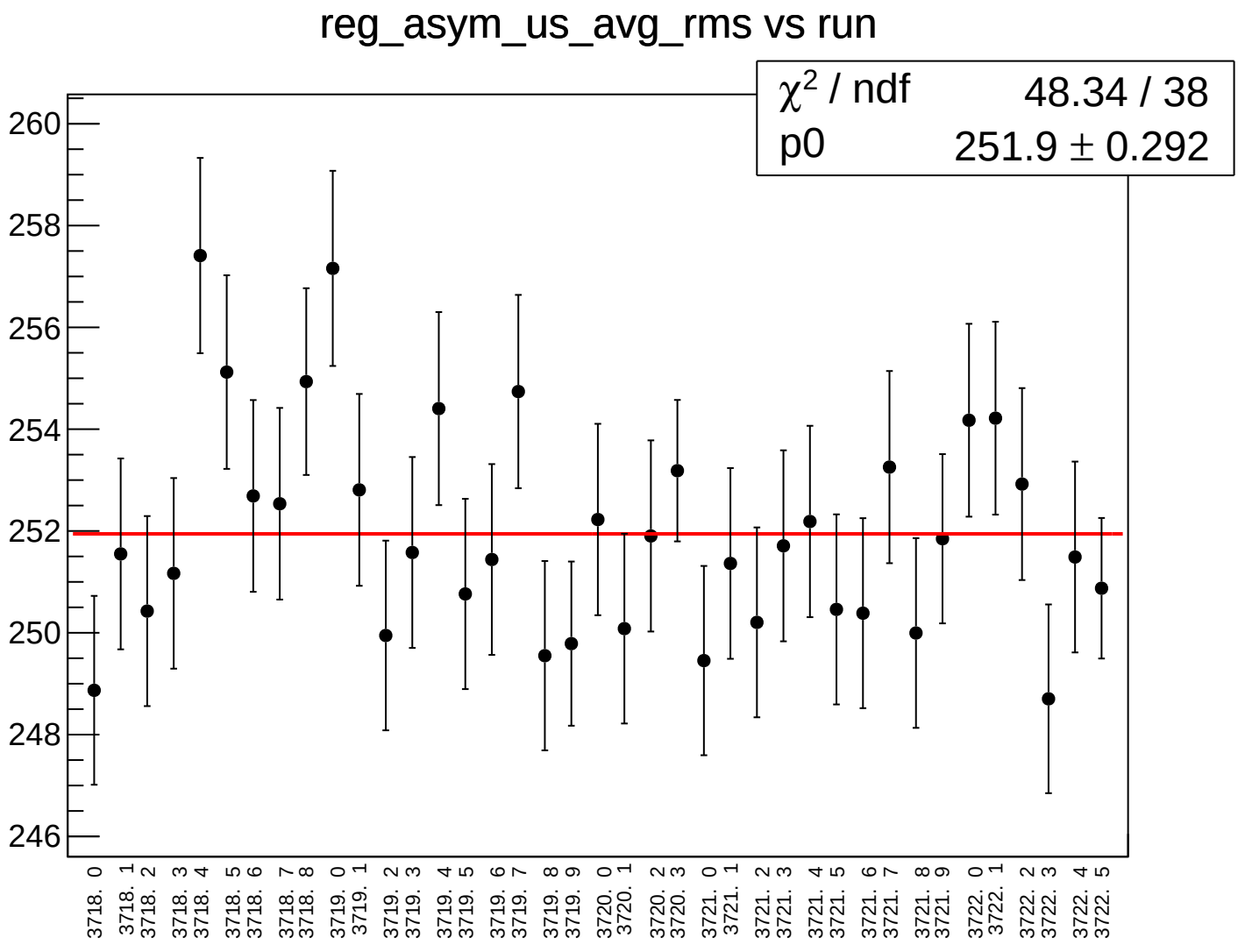

asym_right_dd_mean vs run
χ² / ndf 54.01 / 38
p0 −39.53 ± 49.68
1000
500
0
−500
−1000
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 1113
Std Dev 1092
2
1
0
−1
−2

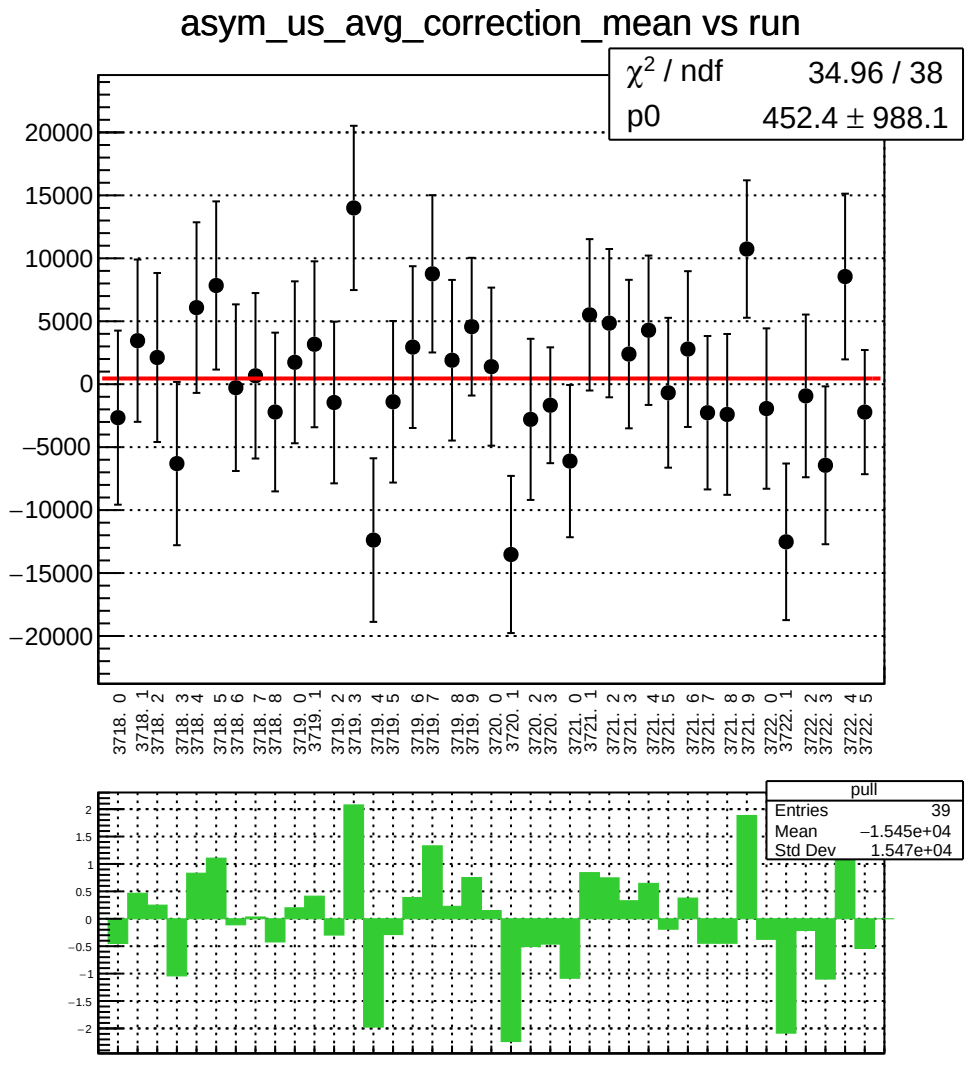

pull1D
Entries 39
Mean 0.003195
Std Dev 1.177
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

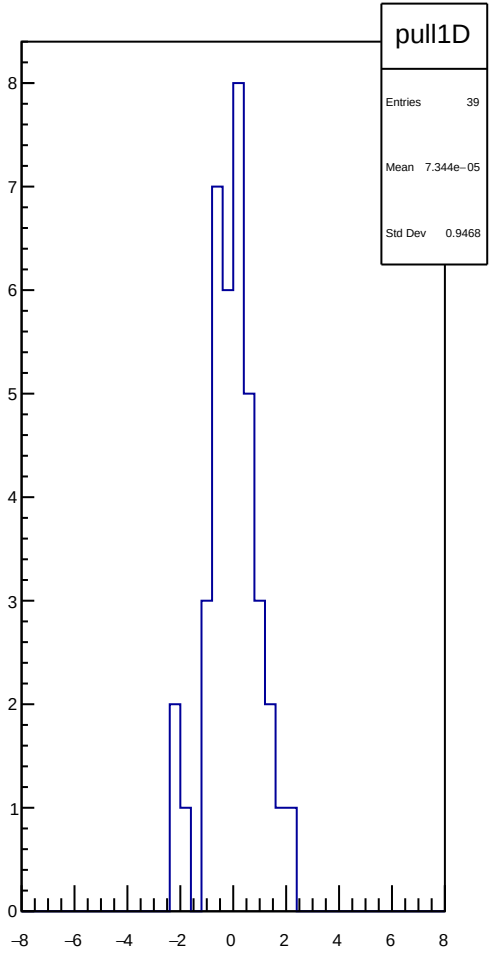

asym_right_dd_rms vs run
χ² / ndf 205.6 / 38
p0 30.31 ± 0.03513
32.5
32
31.5
31
30.5
30
29.5
29
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

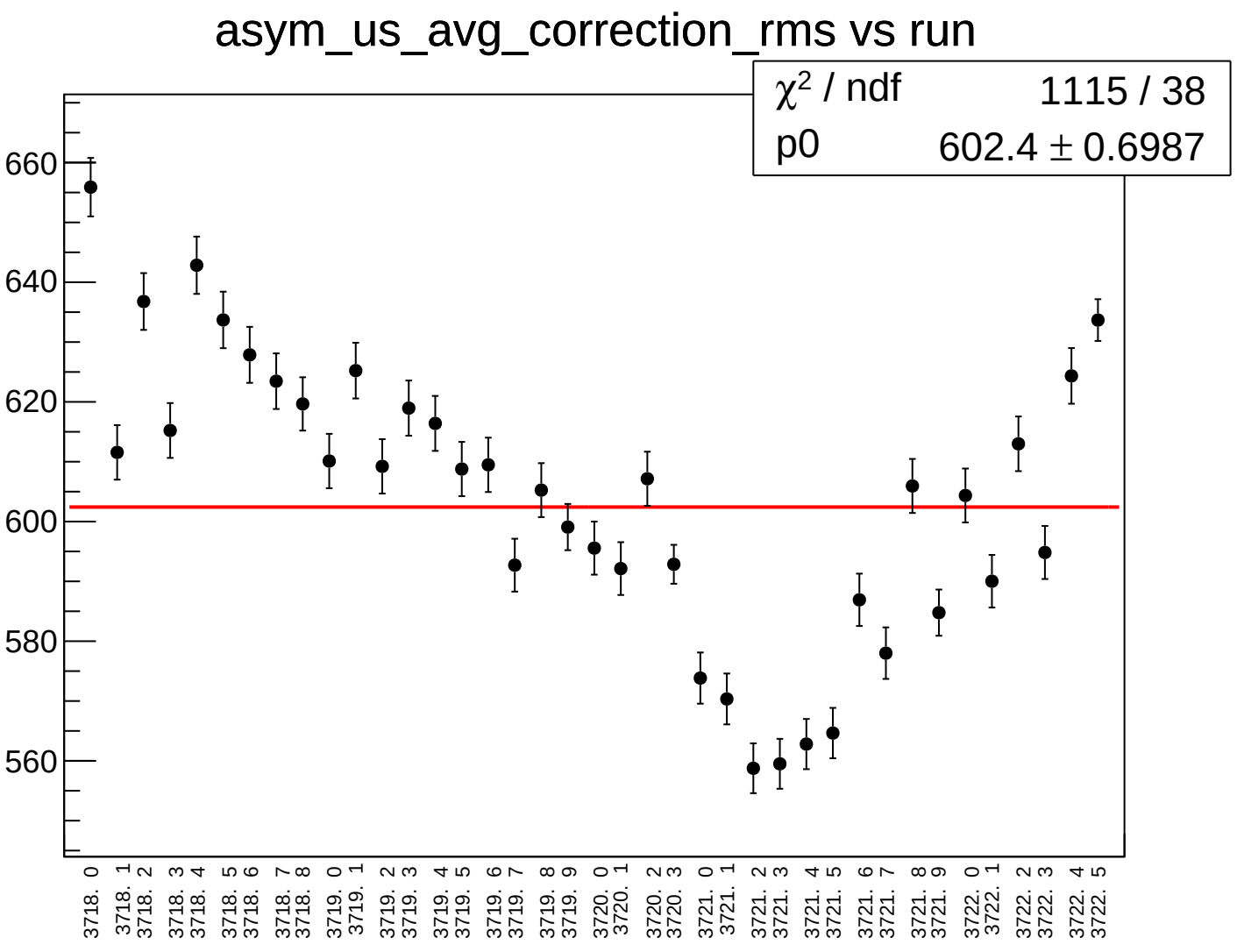

reg_asym_us_avg_mean vs run
χ² / ndf 37.8 / 38
p0 −92.25 ± 413
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 184.8
Std Dev 170.1
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

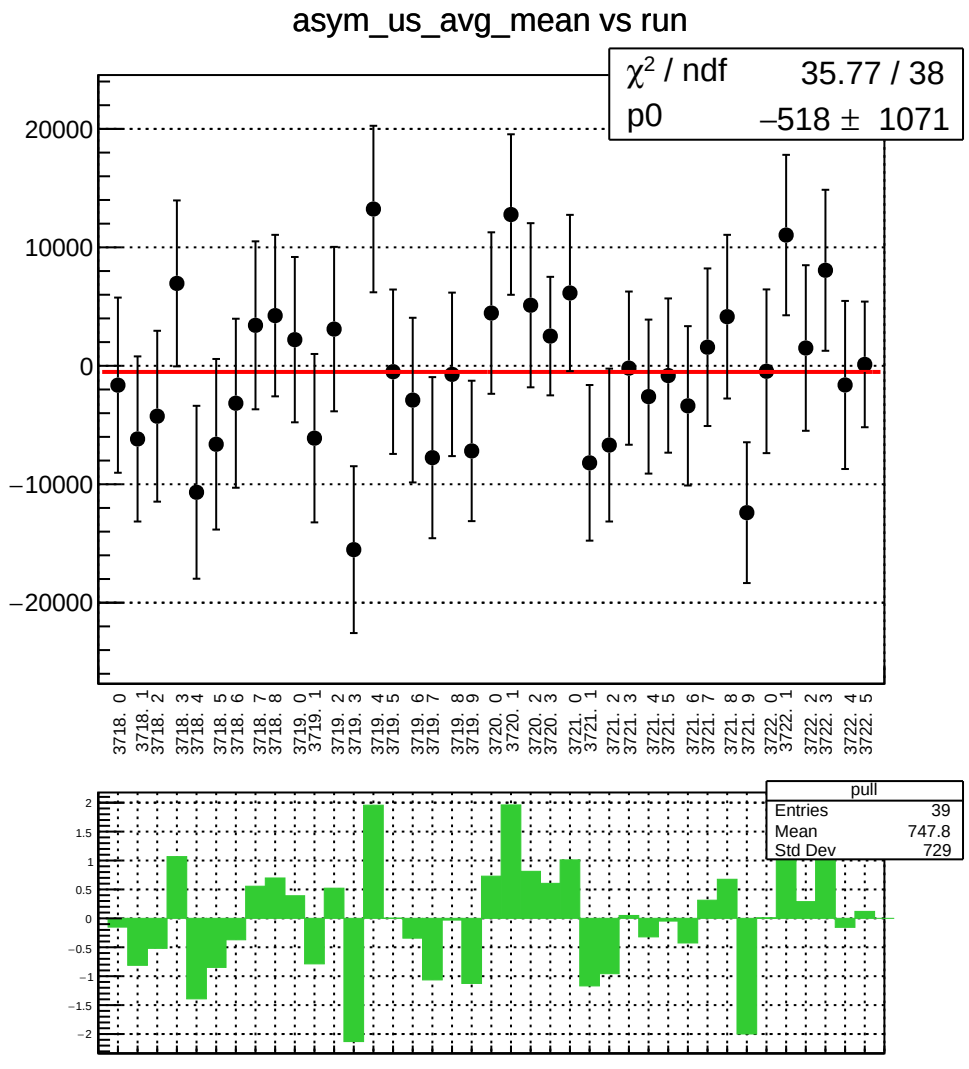

pull1D
Entries 39
Mean 0.01184
Std Dev 0.9845
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

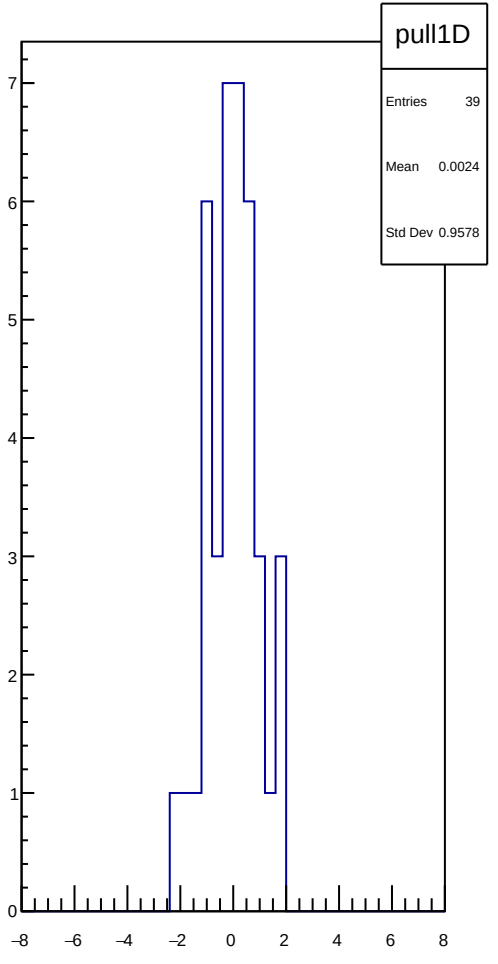

reg_asym_us_avg_rms vs run
χ² / ndf 48.34 / 38
p0 251.9 ± 0.292
260
258
256
254
252
250
248
246
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

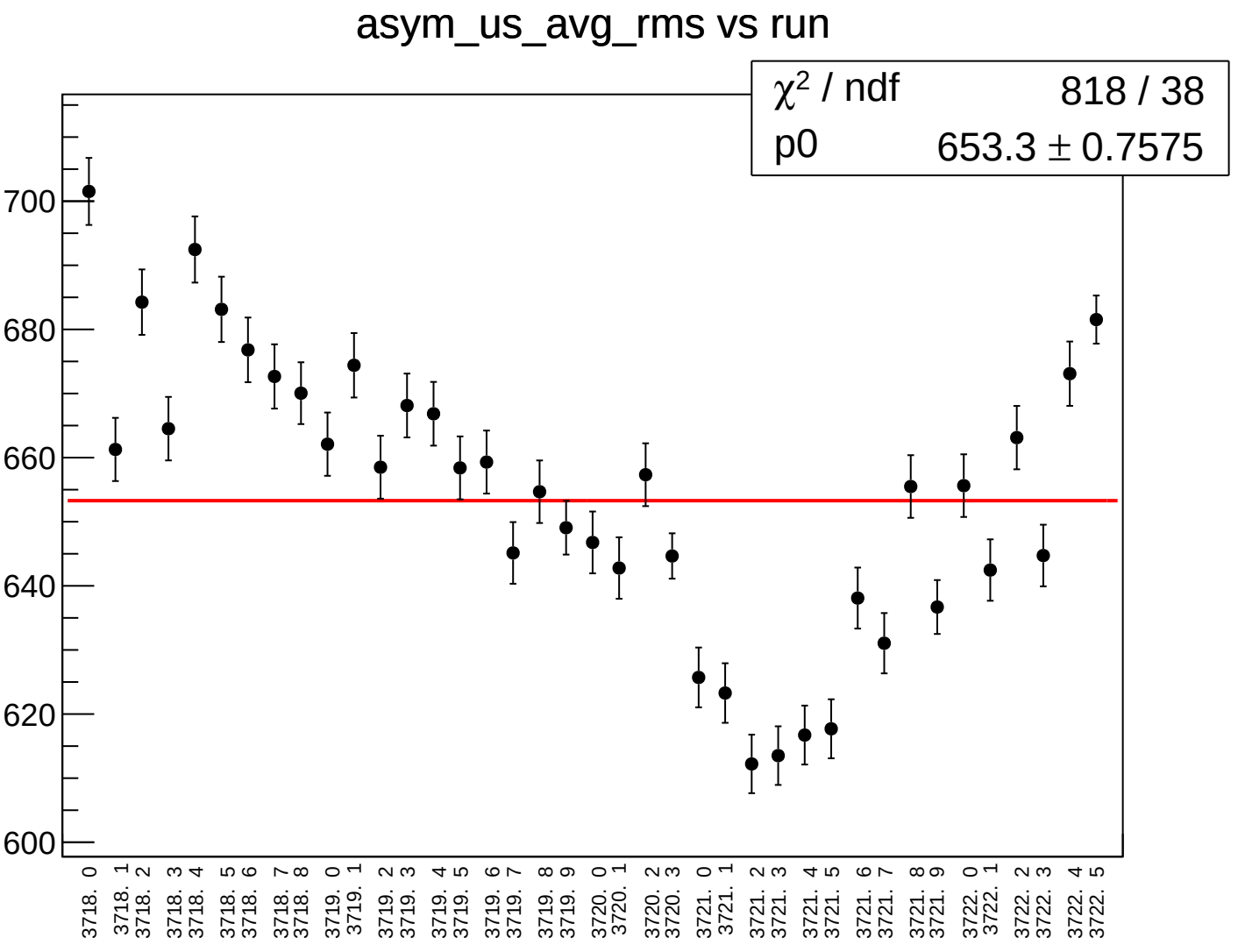

asym_us_avg_correction_mean vs run
χ² / ndf 34.96 / 38
p0 452.4 ± 988.1
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −1.545e+04
Std Dev 1.547e+04
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

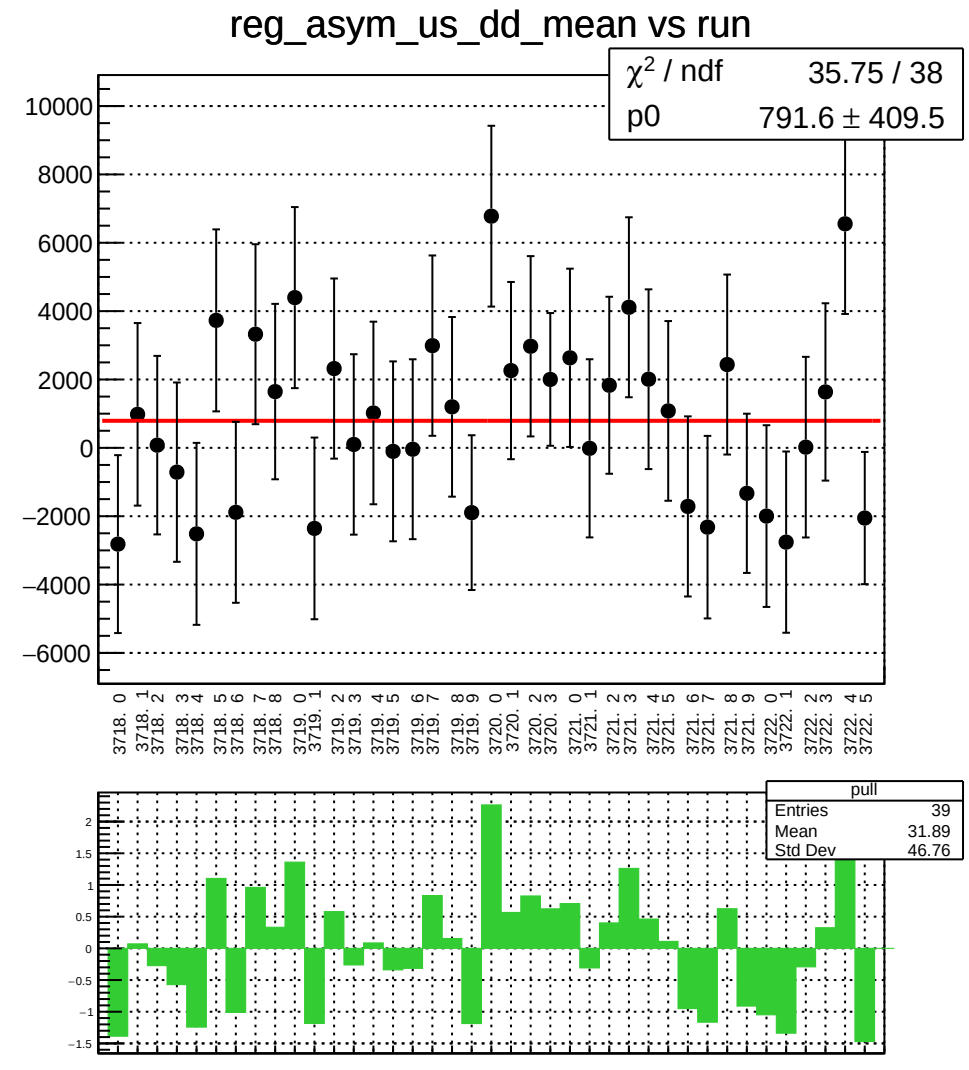

pull1D
Entries 39
Mean 7.344e−05
Std Dev 0.9468
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

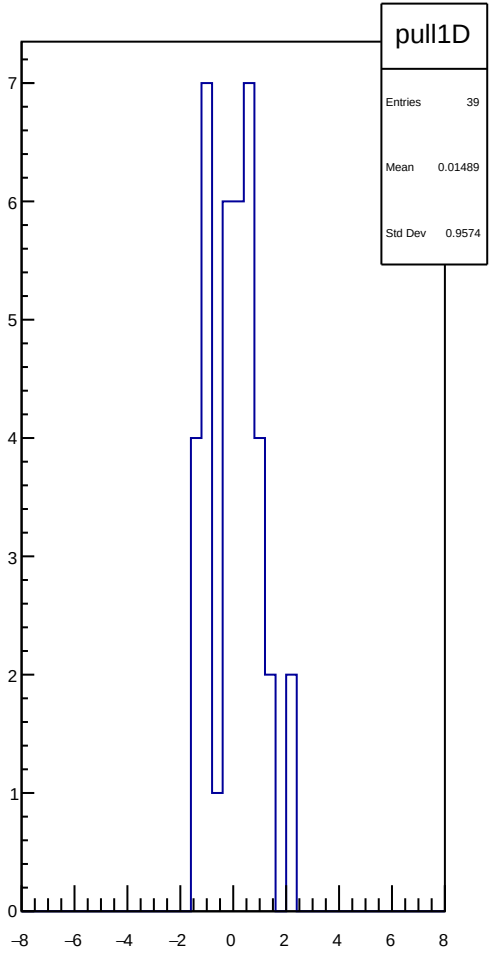

asym_us_avg_correction_rms vs run
χ² / ndf 1115 / 38
p0 602.4 ± 0.6987
660
640
620
600
580
560
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

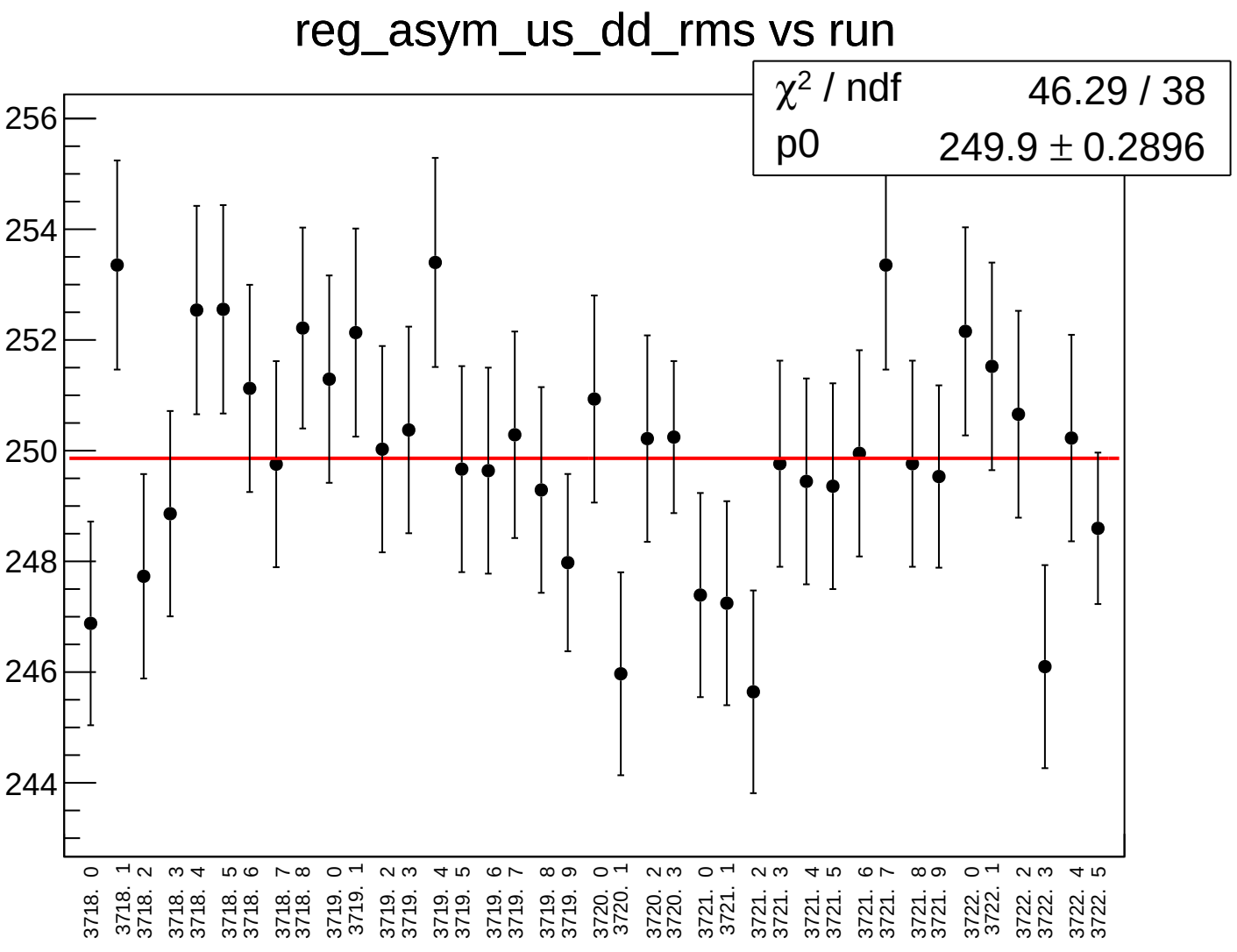

asym_us_avg_mean vs run
χ² / ndf 35.77 / 38
p0 −518 ± 1071
20000
10000
0
−10000
−20000
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 747.8
Std Dev 729
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

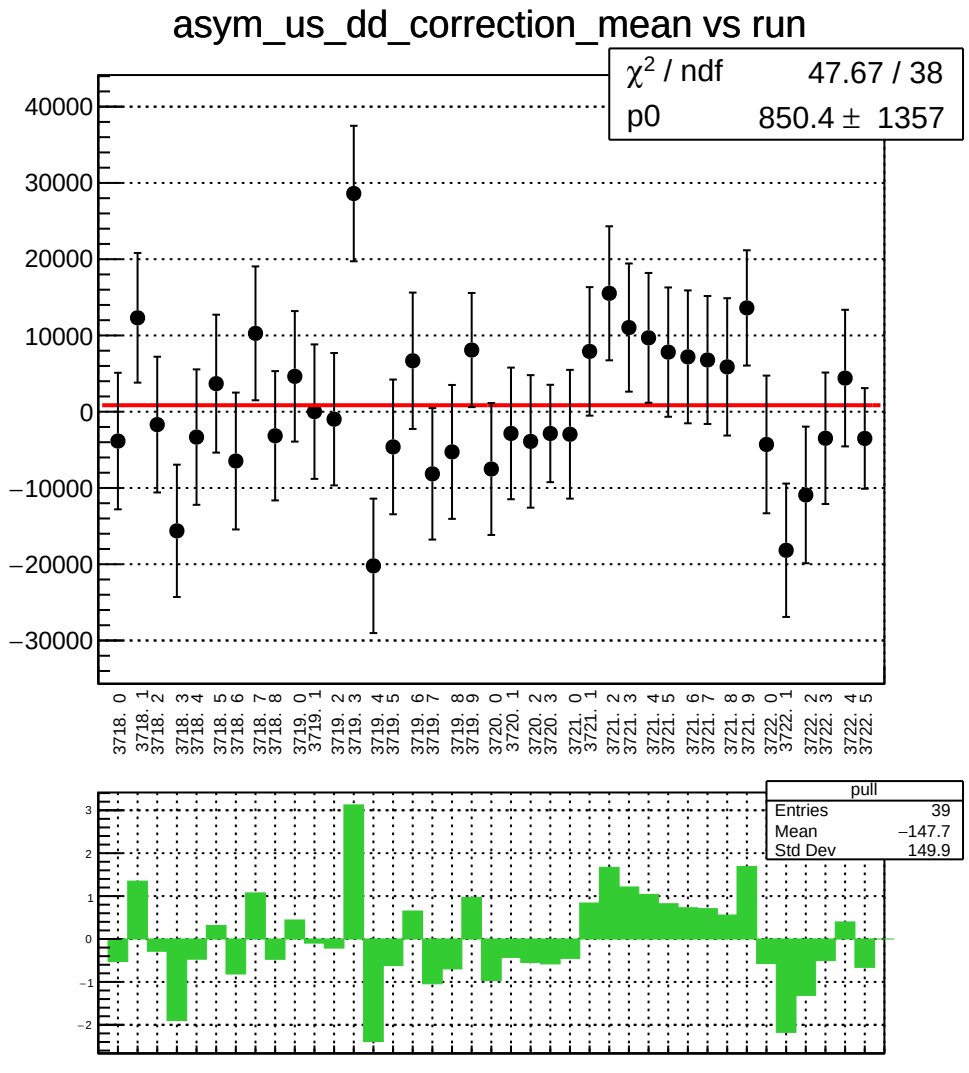

pull1D
Entries 39
Mean 0.0024
Std Dev 0.9578
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

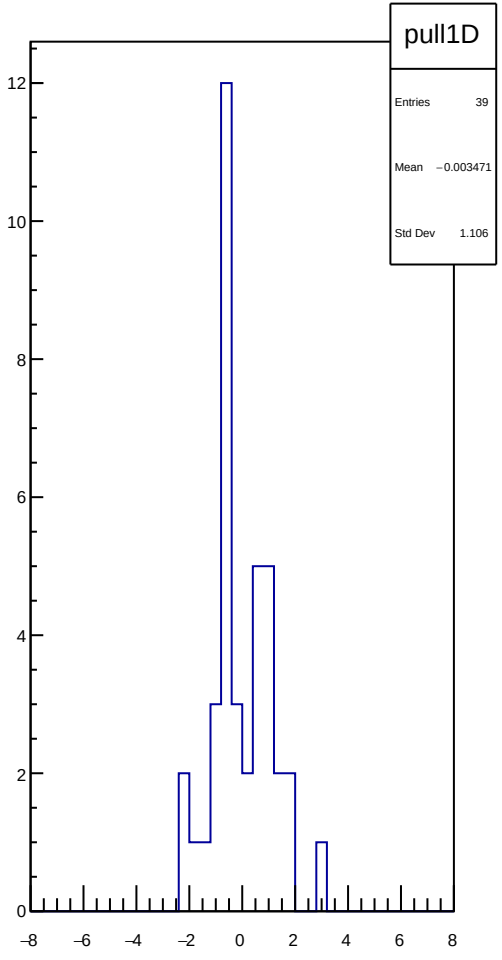

asym_us_avg_rms vs run
χ² / ndf 818 / 38
p0 653.3 ± 0.7575
700
680
660
640
620
600
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

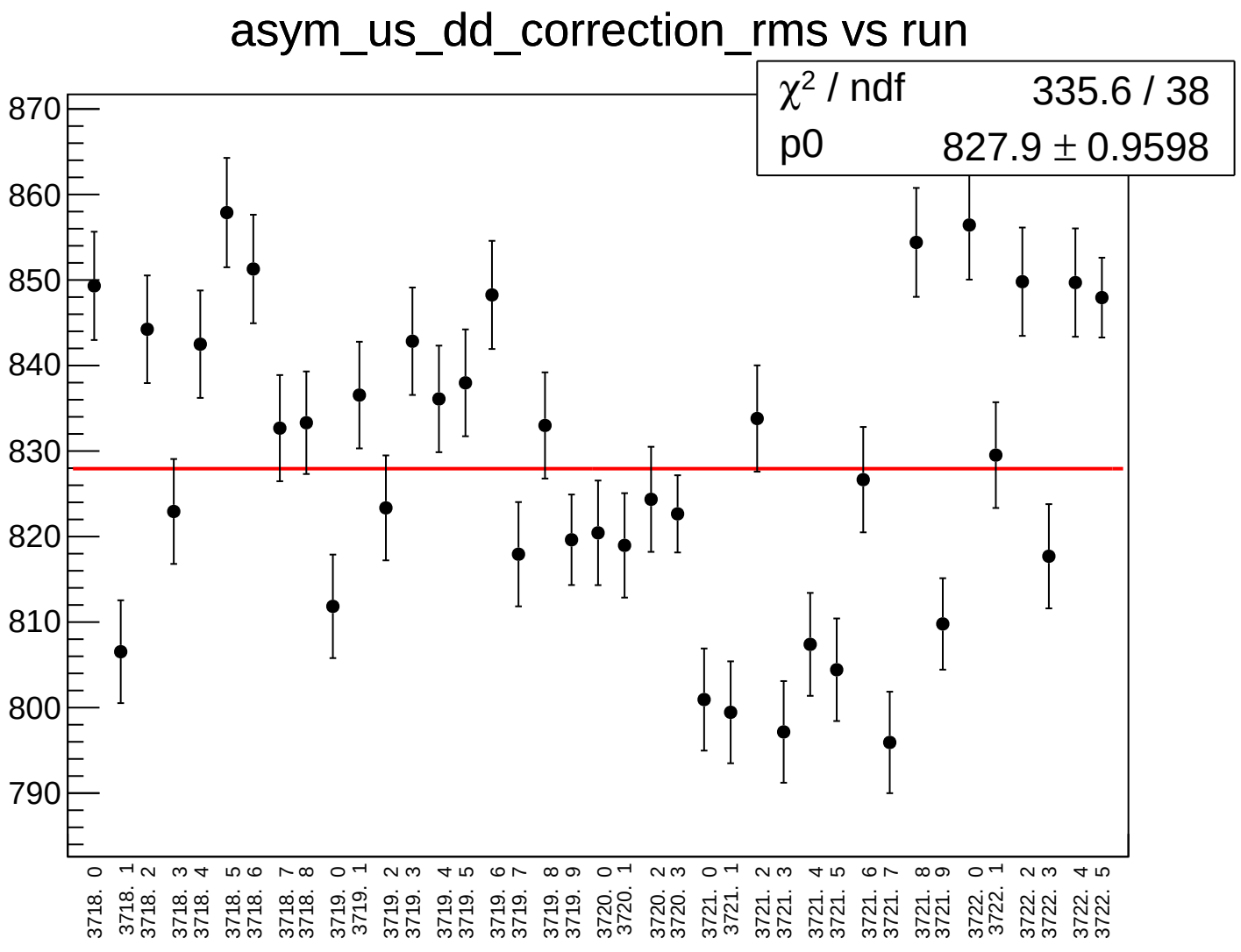

reg_asym_us_dd_mean vs run
χ^2 / ndf 35.75 / 38
p0 791.6 ± 409.5
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 31.89
Std Dev 46.76
2
1.5
1
0.5
0
−0.5
−1
−1.5

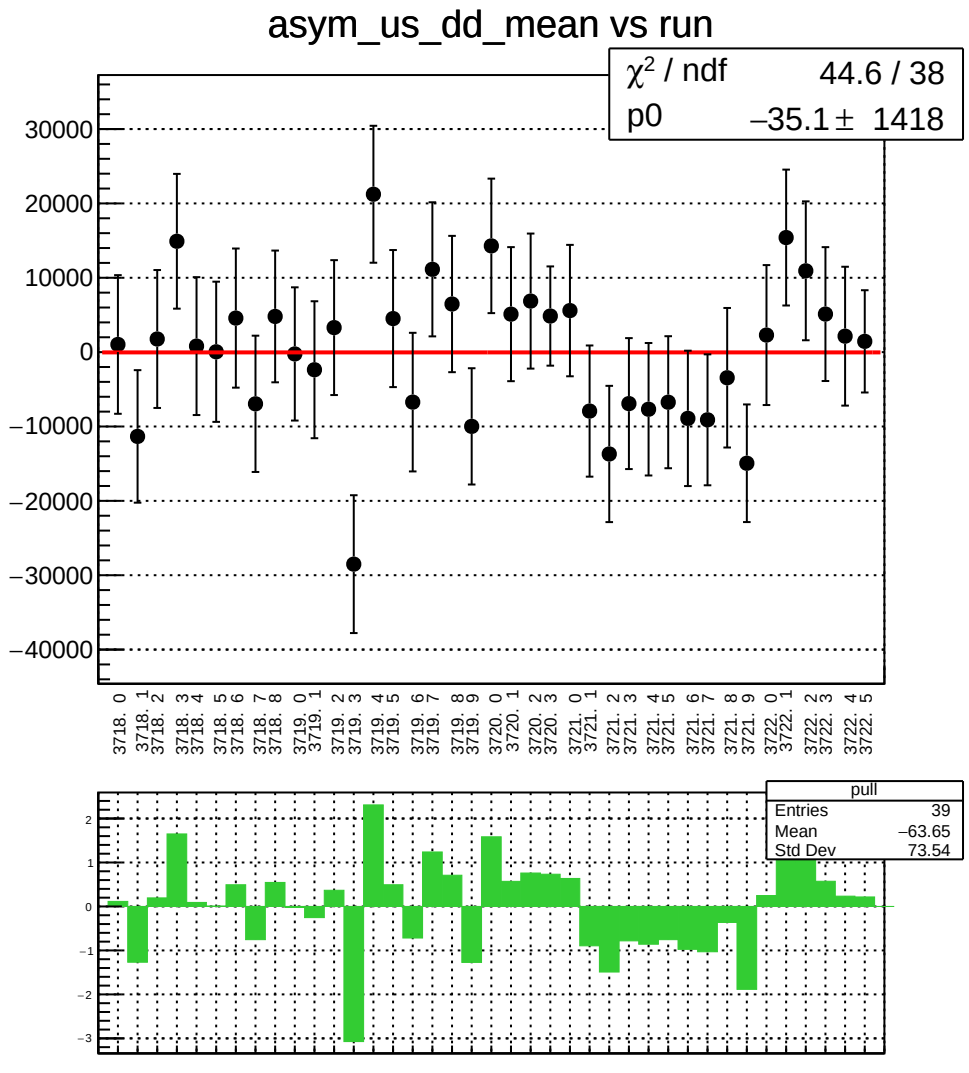

pull1D
Entries 39
Mean 0.01489
Std Dev 0.9574
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

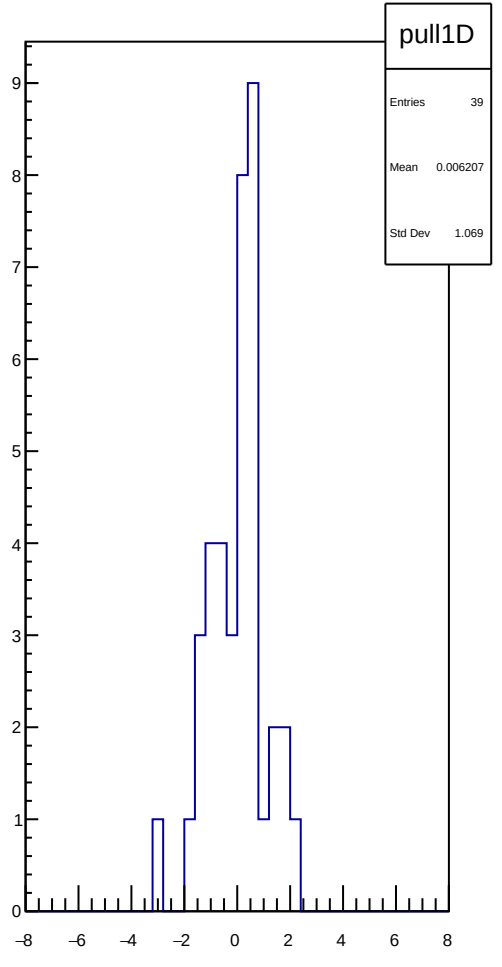

reg_asym_us_dd_rms vs run
χ² / ndf 46.29 / 38
p0 249.9 ± 0.2896
256
254
252
250
248
246
244
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

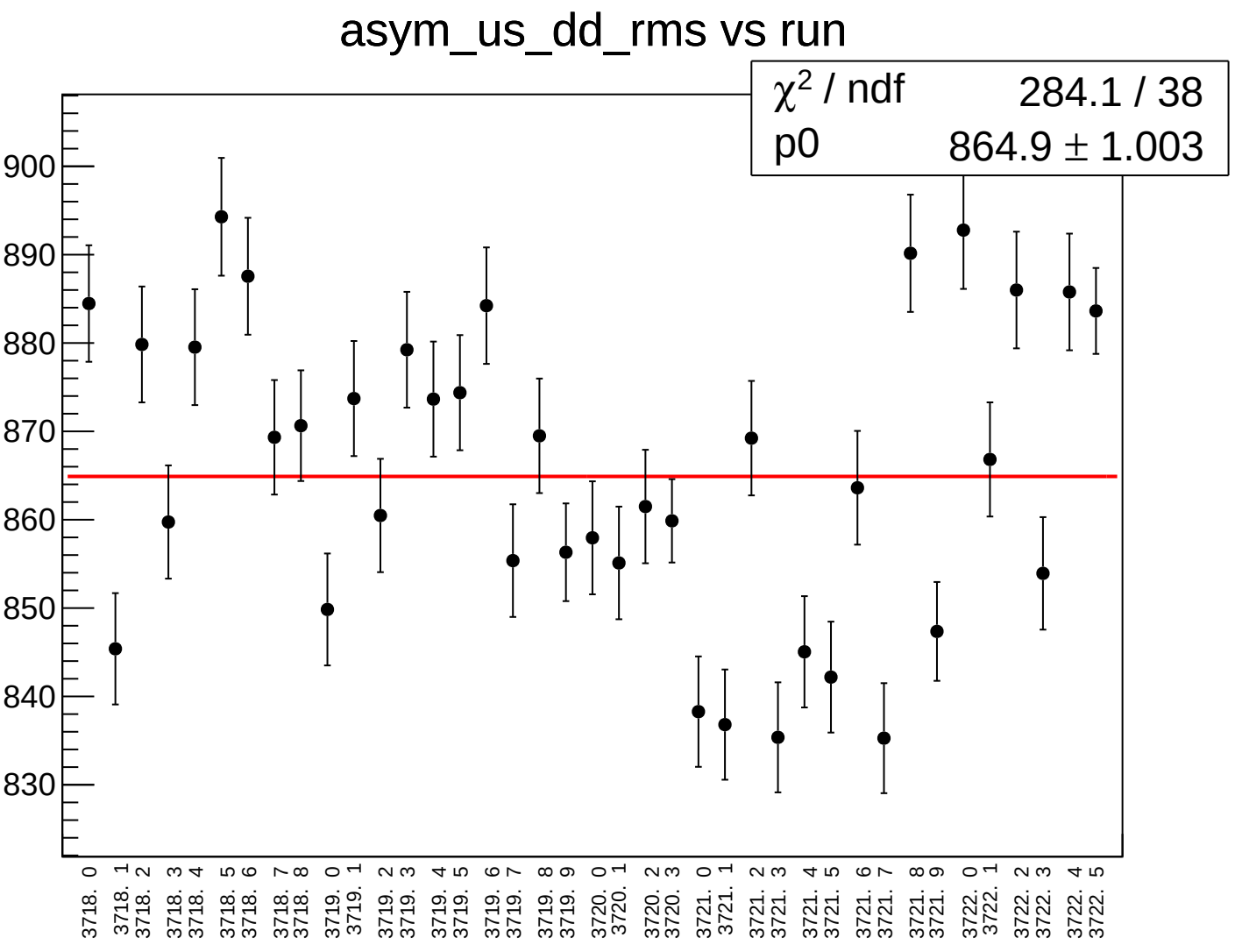

asym_us_dd_correction_mean vs run
χ² / ndf 47.67 / 38
p0 850.4 ± 1357
40000
30000
20000
10000
0
−10000
−20000
−30000
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −147.7
Std Dev 149.9
3
2
1
0
−1
−2

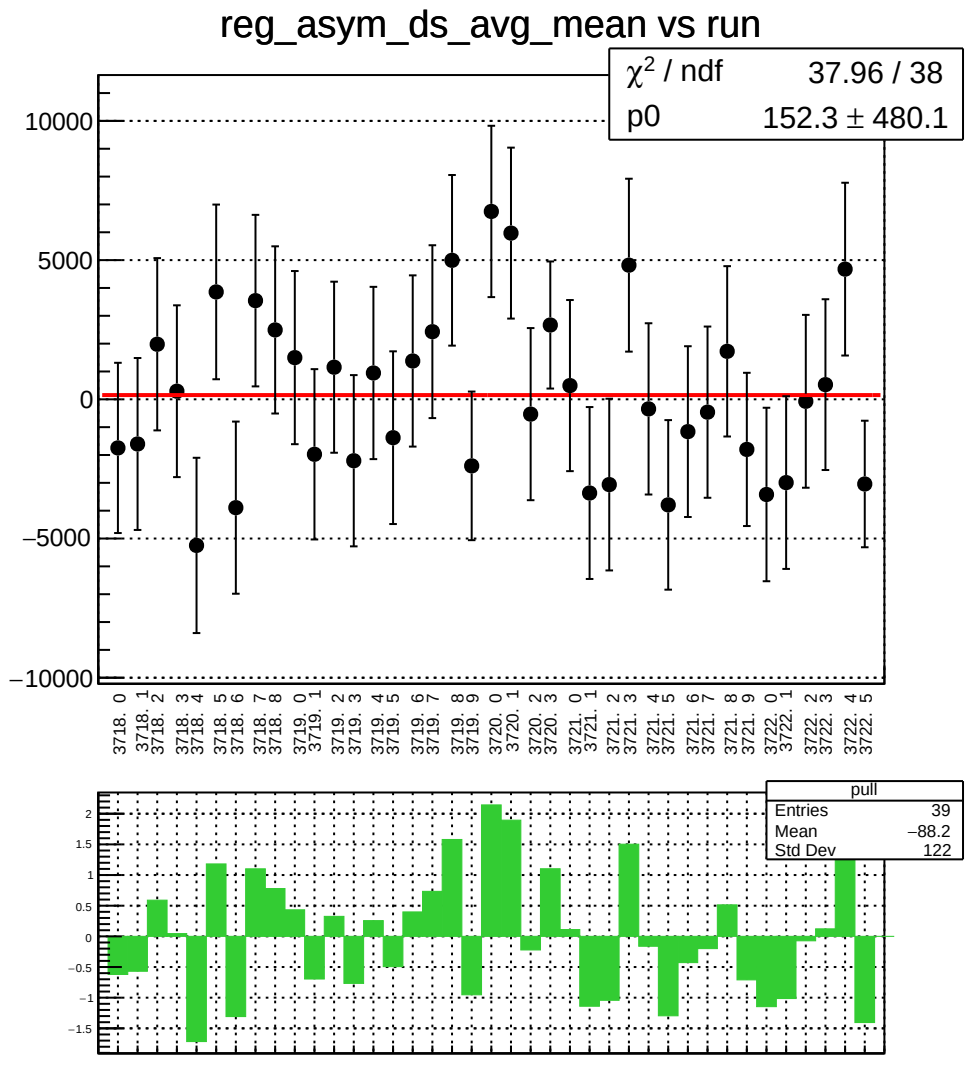

pull1D
Entries 39
Mean −0.003471
Std Dev 1.106
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

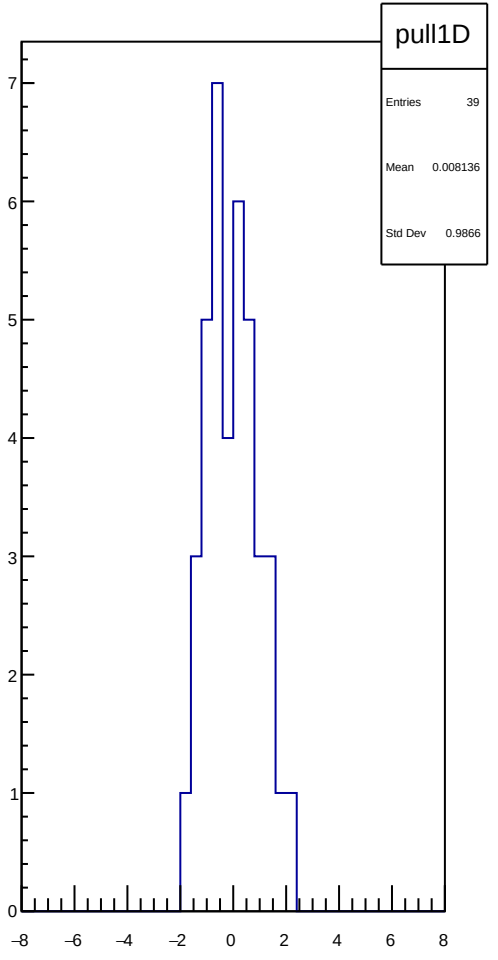

asym_us_dd_correction_rms vs run
χ² / ndf 335.6 / 38
p0 827.9 ± 0.9598
870
860
850
840
830
820
810
800
790
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

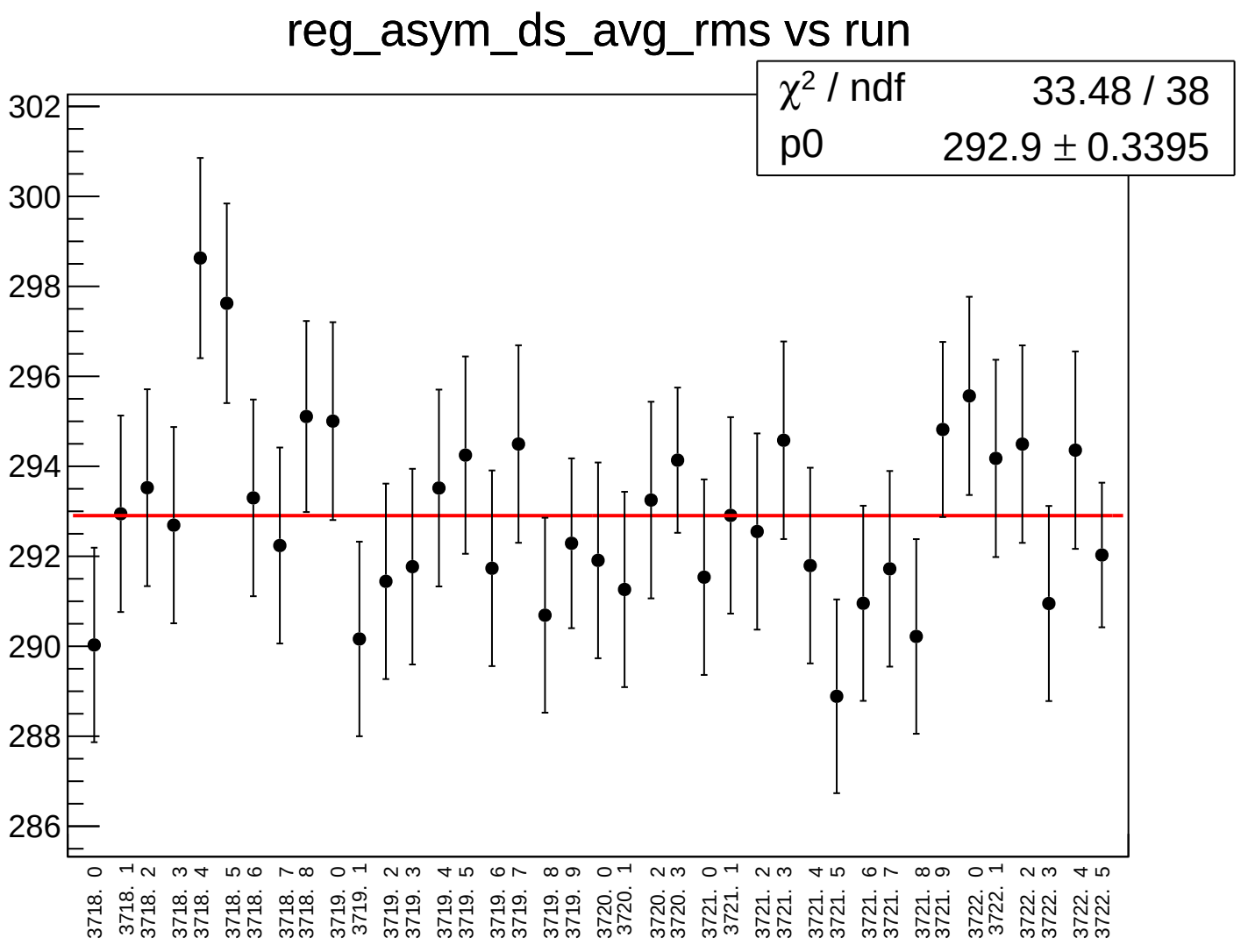

asym_us_dd_mean vs run
χ² / ndf 44.6 / 38
p0 −35.1 ± 1418
30000
20000
10000
0
−10000
−20000
−30000
−40000
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −63.65
Std Dev 73.54
2
1
0
−1
−2
−3

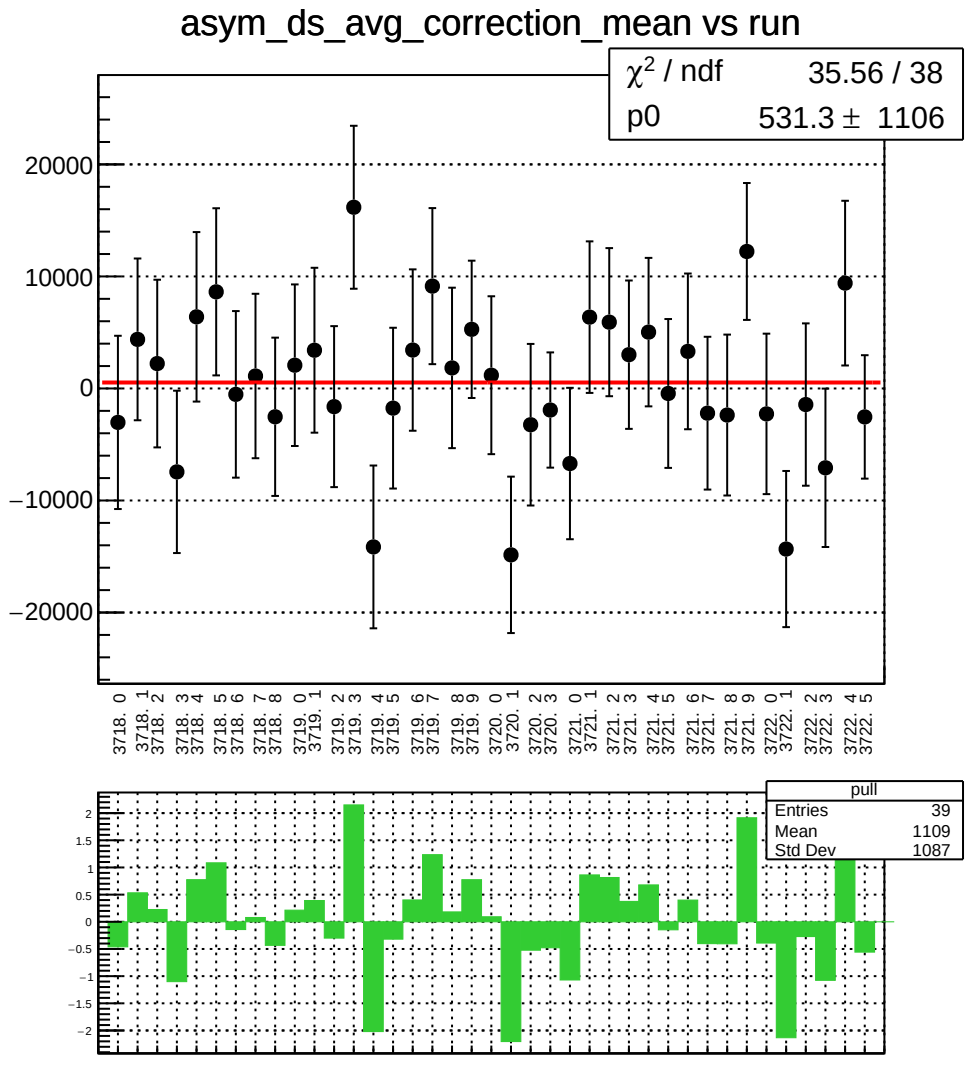

pull1D
Entries 39
Mean 0.006207
Std Dev 1.069
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

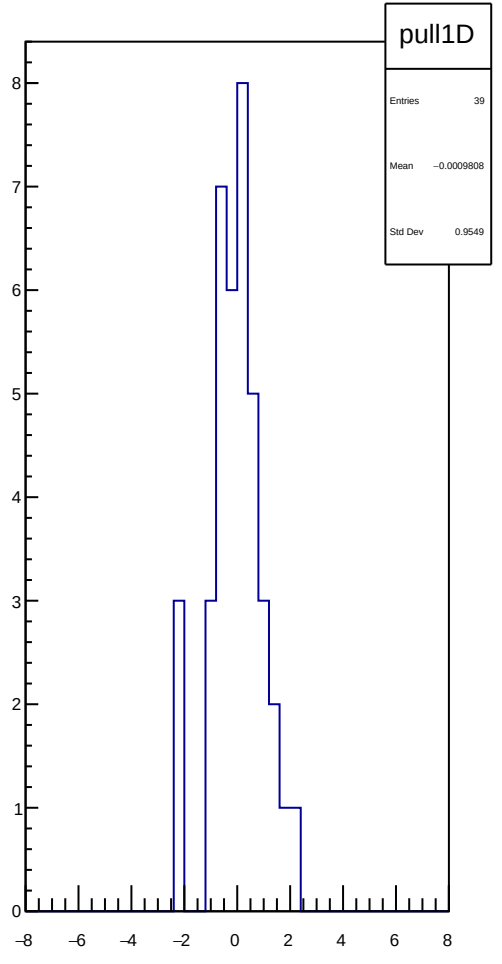

asym_us_dd_rms vs run
χ^2 / ndf 284.1 / 38
p0 864.9 ± 1.003
900
890
880
870
860
850
840
830
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

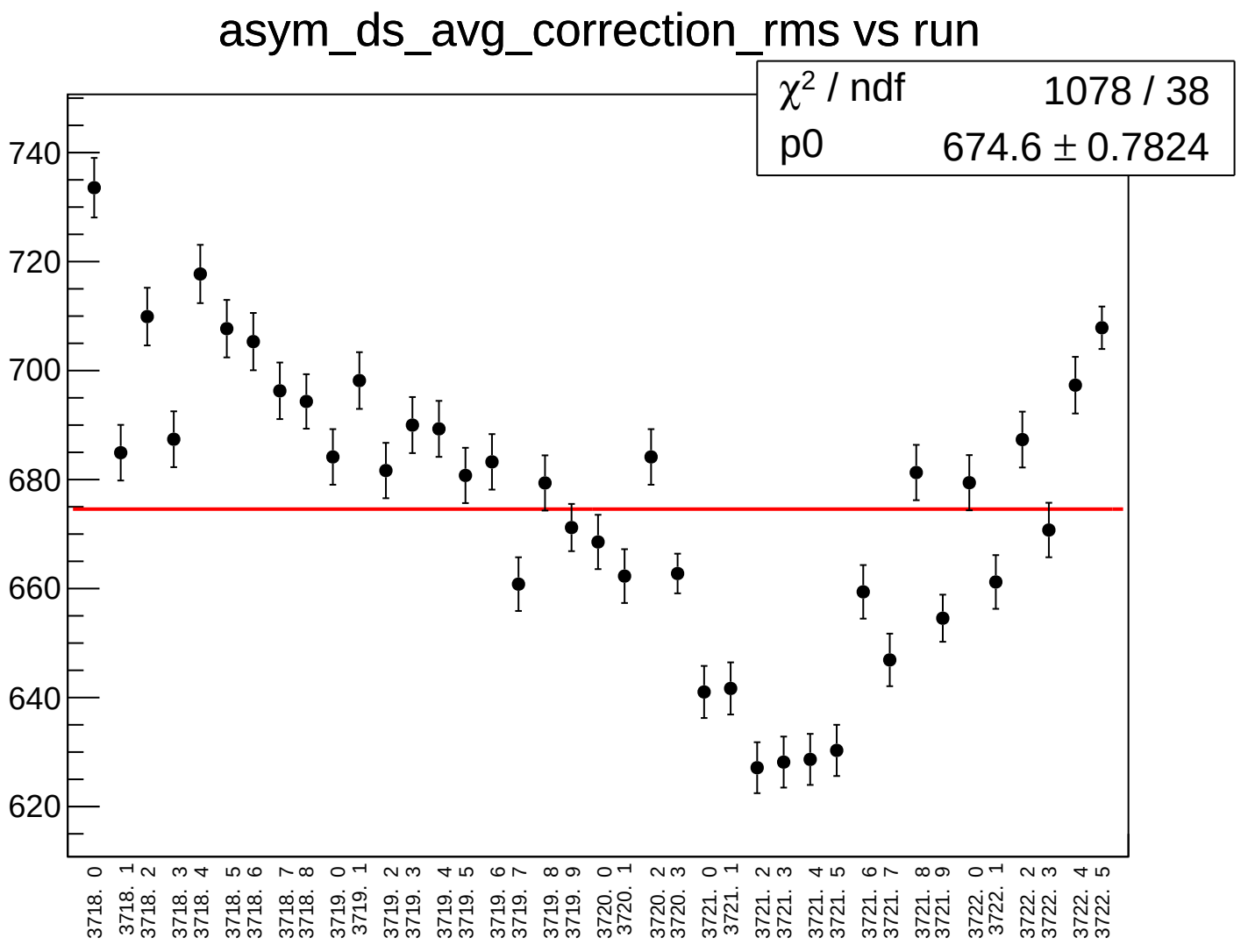

reg_asym_ds_avg_mean vs run
χ² / ndf 37.96 / 38
p0 152.3 ± 480.1
10000
5000
0
−5000
−10000
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −88.2
Std Dev 122
2
1.5
1
0.5
0
−0.5
−1
−1.5

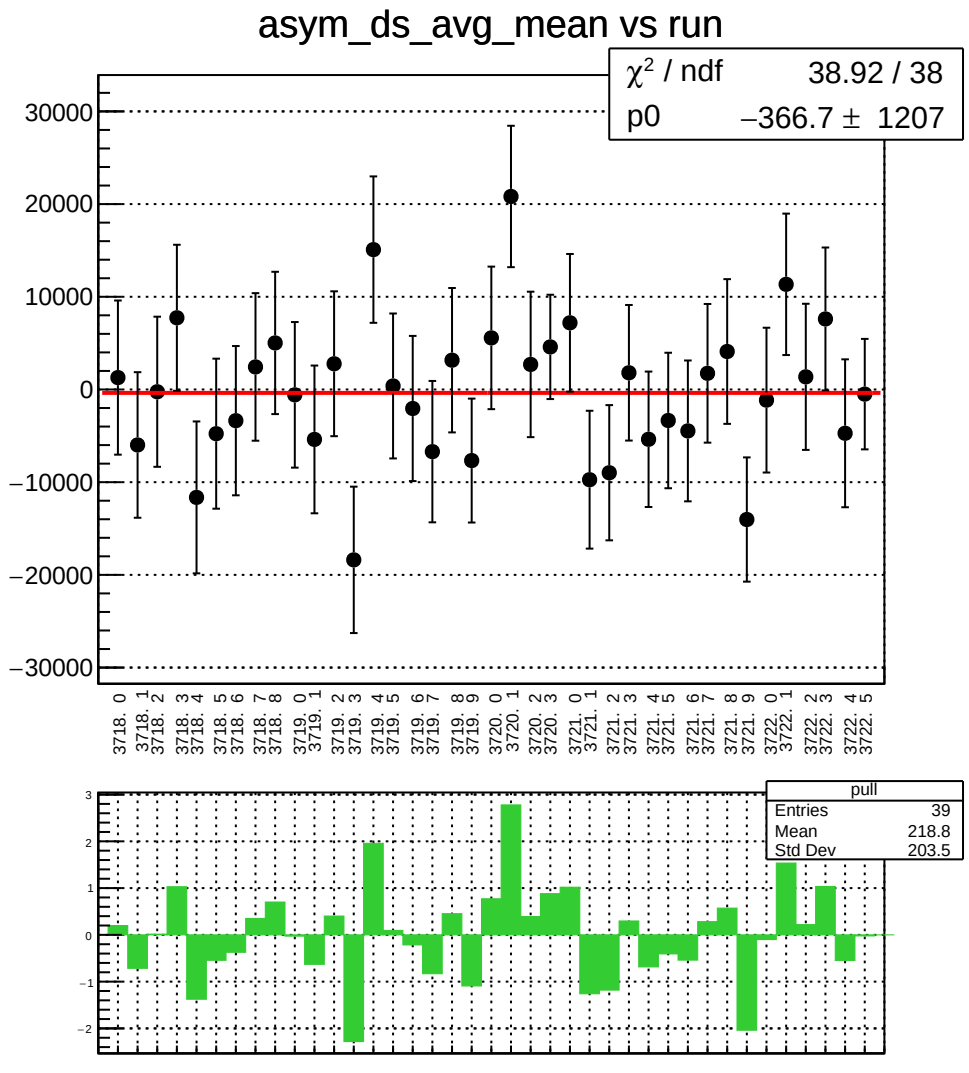

pull1D
Entries 39
Mean 0.008136
Std Dev 0.9866
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

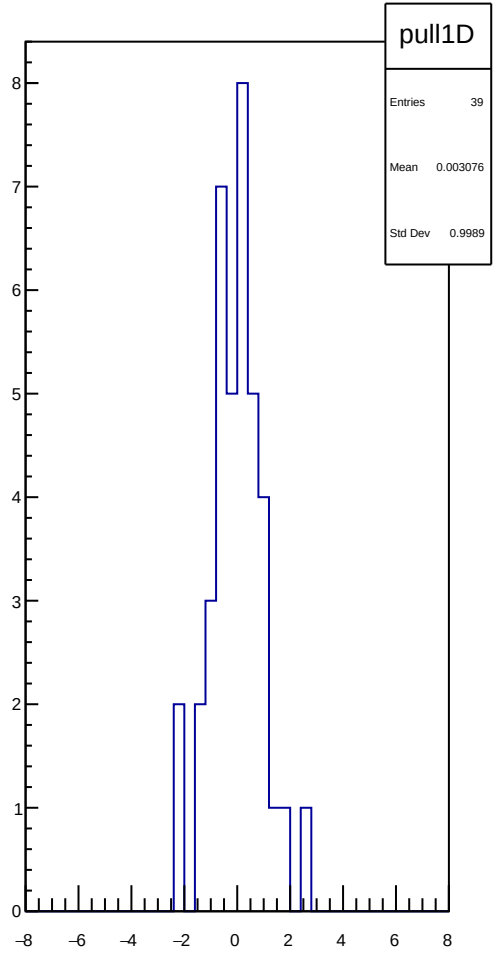

reg_asym_ds_avg_rms vs run
χ² / ndf 33.48 / 38
p0 292.9 ± 0.3395
302
300
298
296
294
292
290
288
286
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

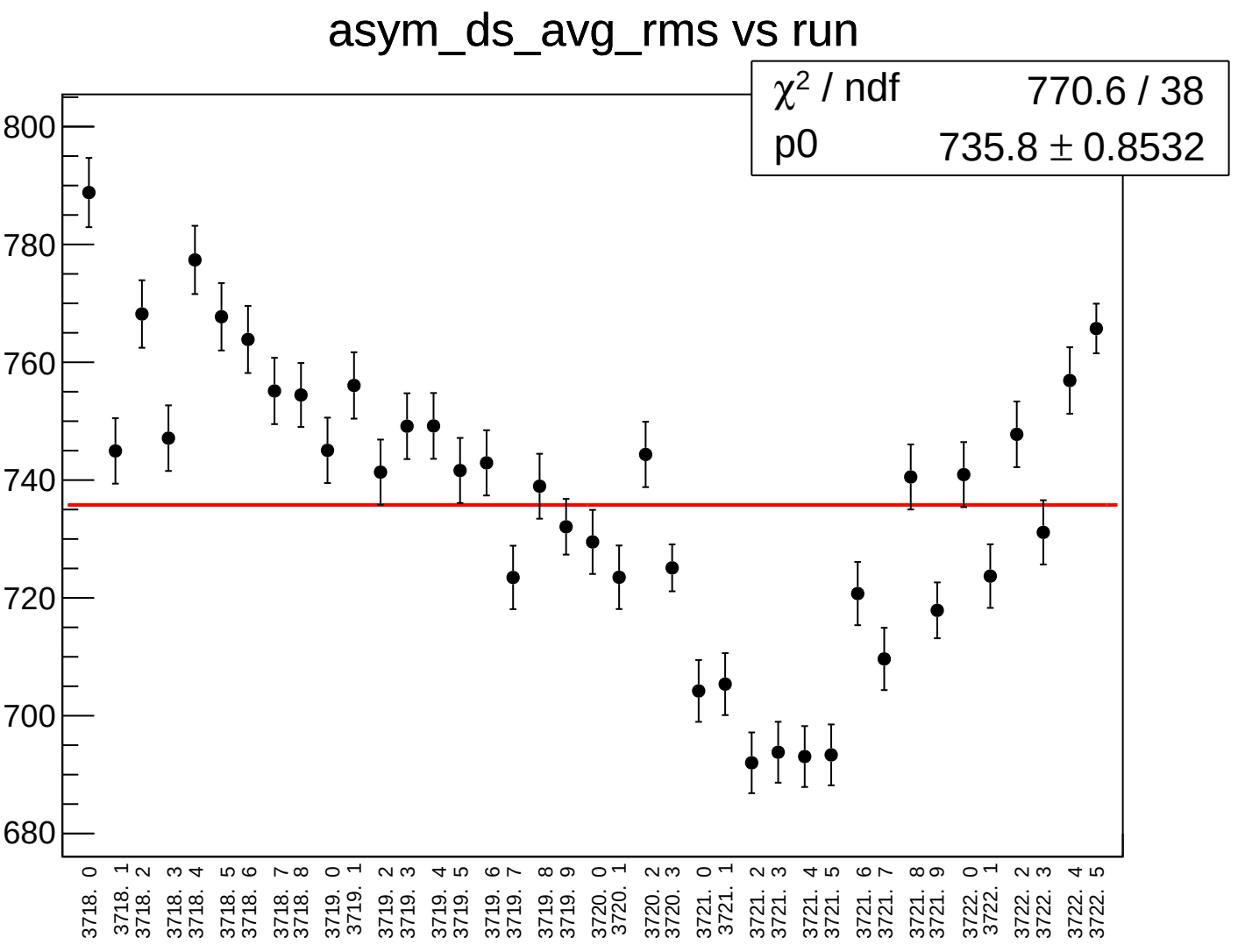

asym_ds_avg_correction_mean vs run
χ² / ndf 35.56 / 38
p0 531.3 ± 1106
20000
10000
0
−10000
−20000
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 1109
Std Dev 1087
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

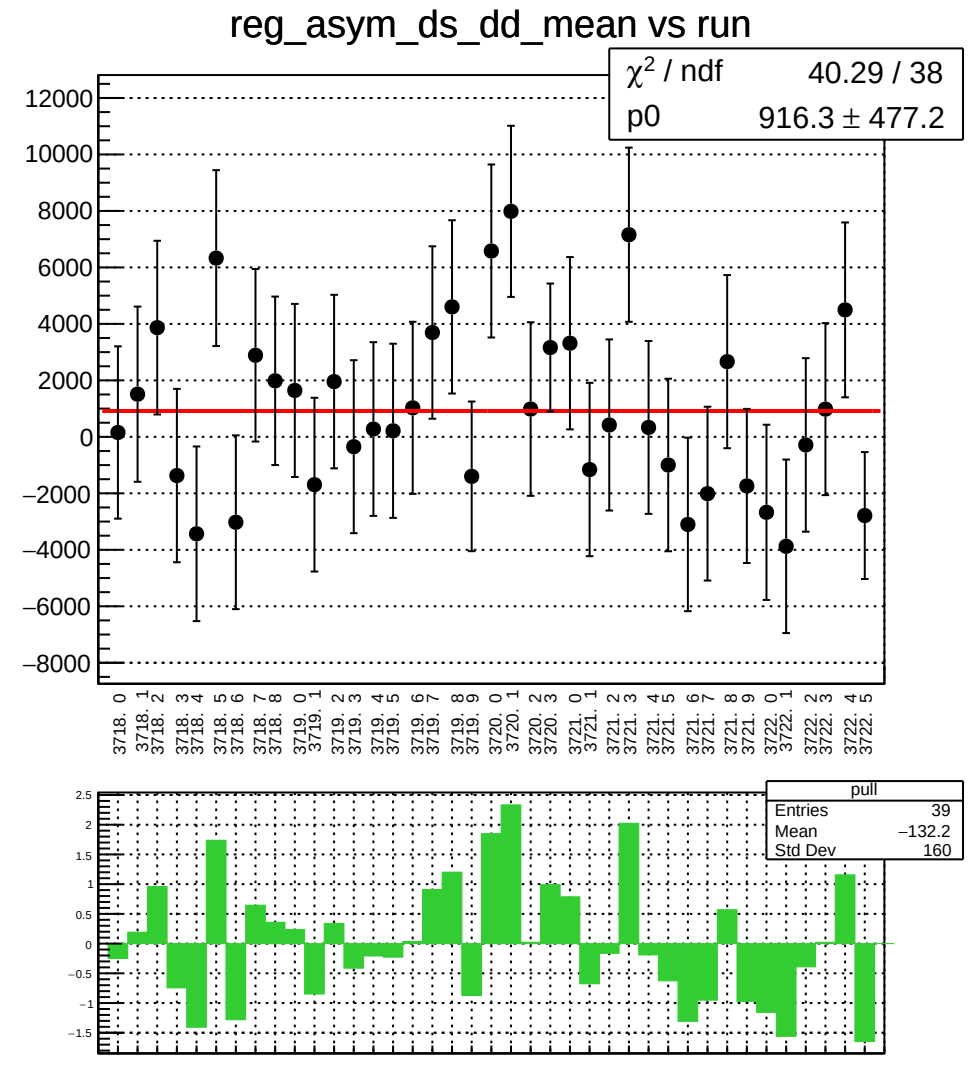

pull1D
Entries 39
Mean −0.0009808
Std Dev 0.9549
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

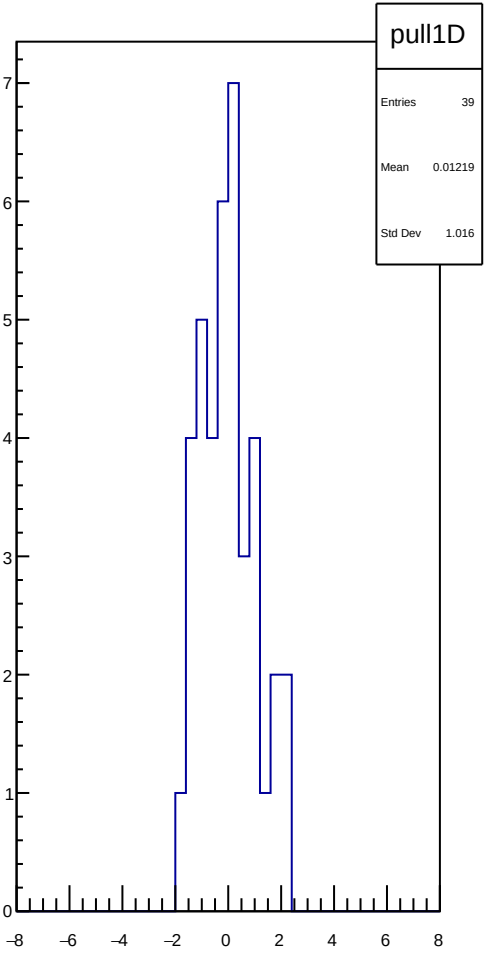

asym_ds_avg_correction_rms vs run
χ² / ndf 1078 / 38
p0 674.6 ± 0.7824
740
720
700
680
660
640
620
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

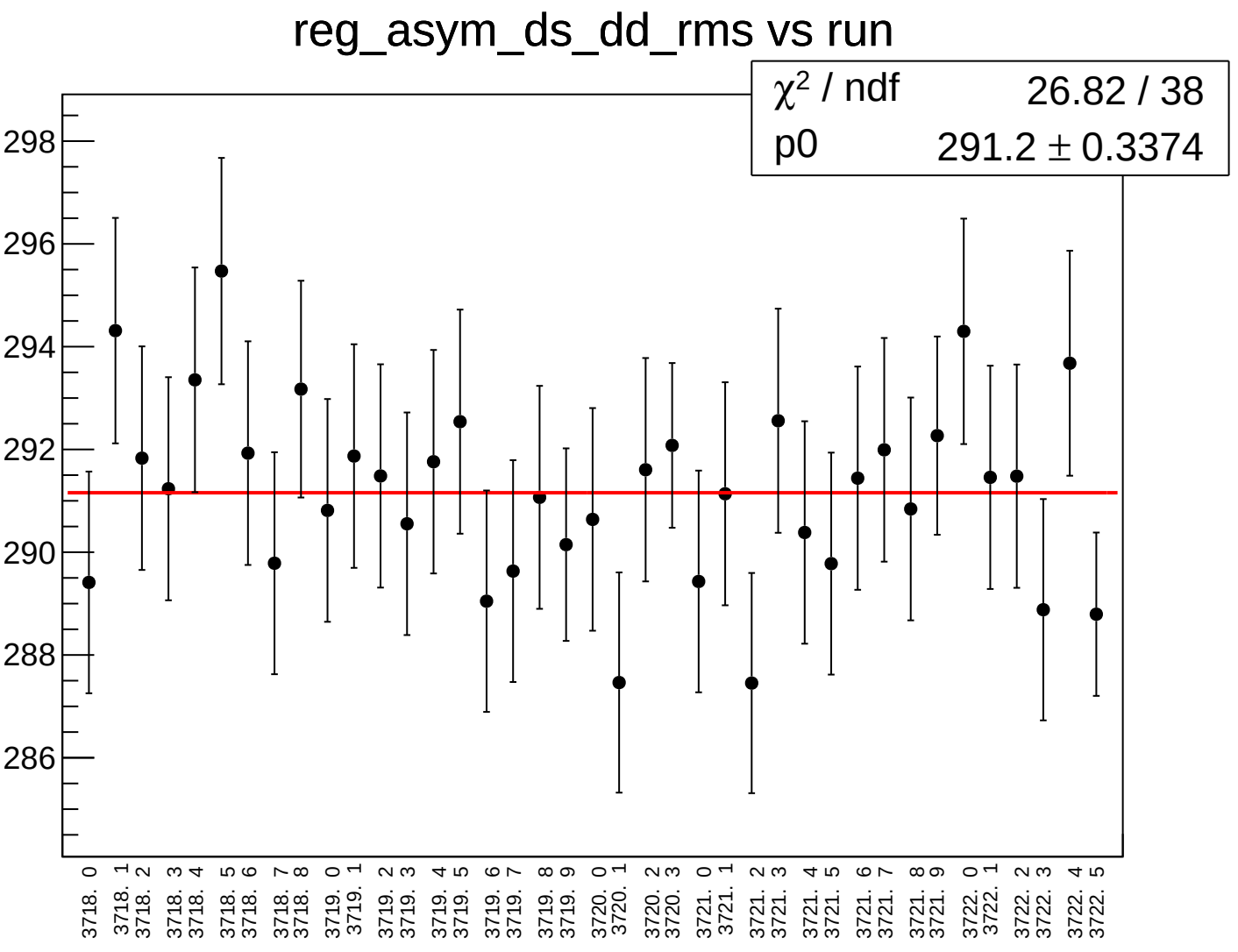

asym_ds_avg_mean vs run
χ² / ndf 38.92 / 38
p0 −366.7 ± 1207
30000
20000
10000
0
−10000
−20000
−30000
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 218.8
Std Dev 203.5
3
2
1
0
−1
−2

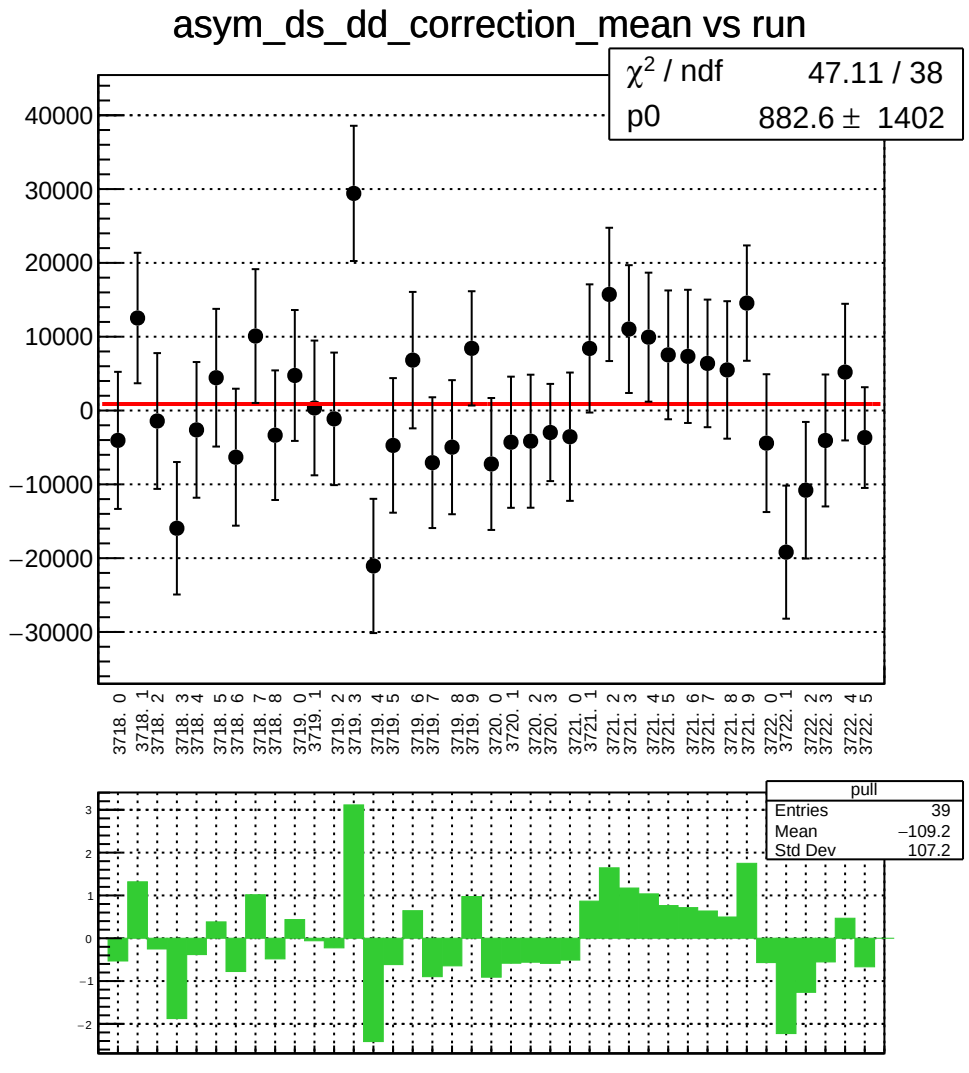

pull1D
Entries 39
Mean 0.003076
Std Dev 0.9989
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

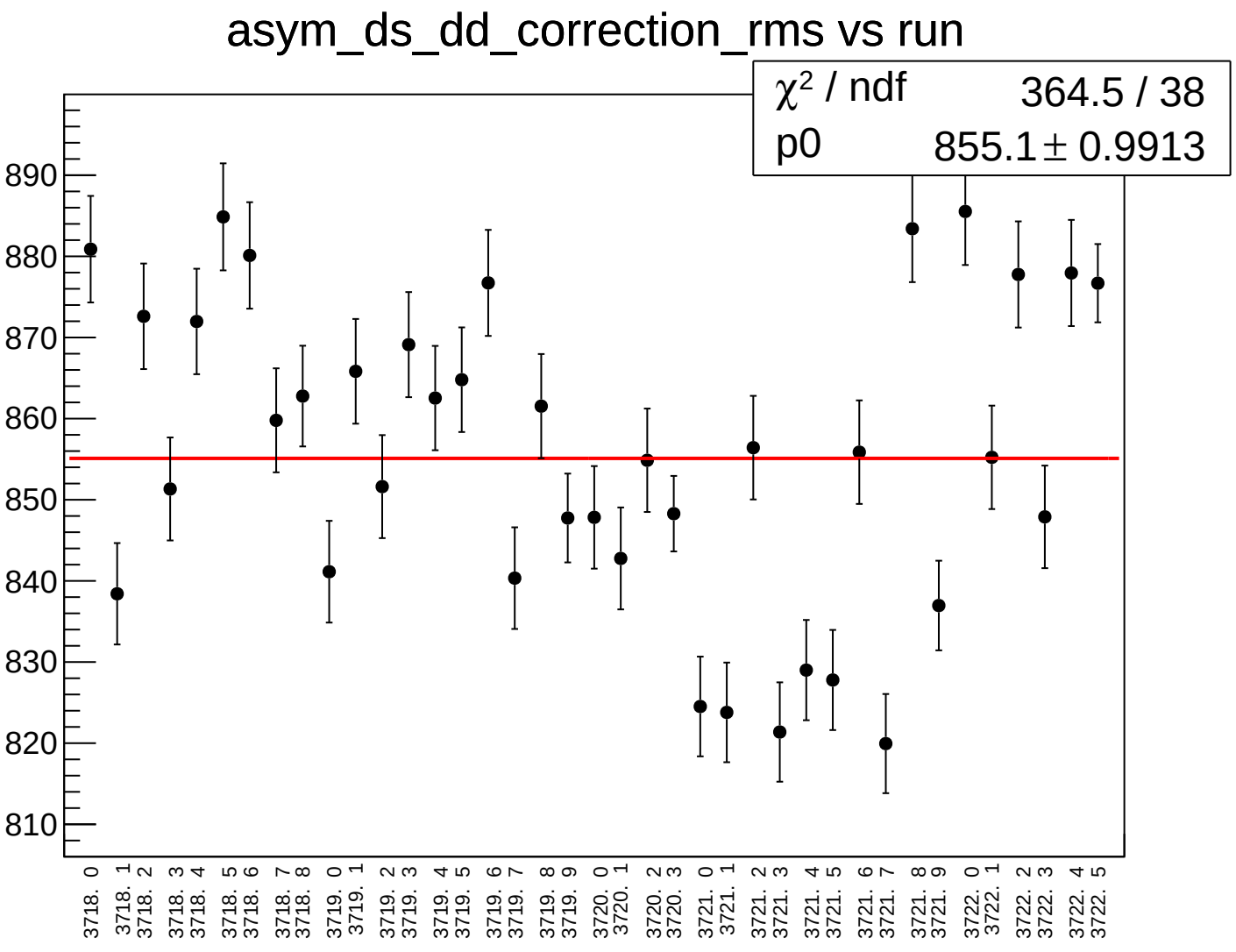

asym_ds_avg_rms vs run
χ² / ndf 770.6 / 38
p0 735.8 ± 0.8532
800
780
760
740
720
700
680
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

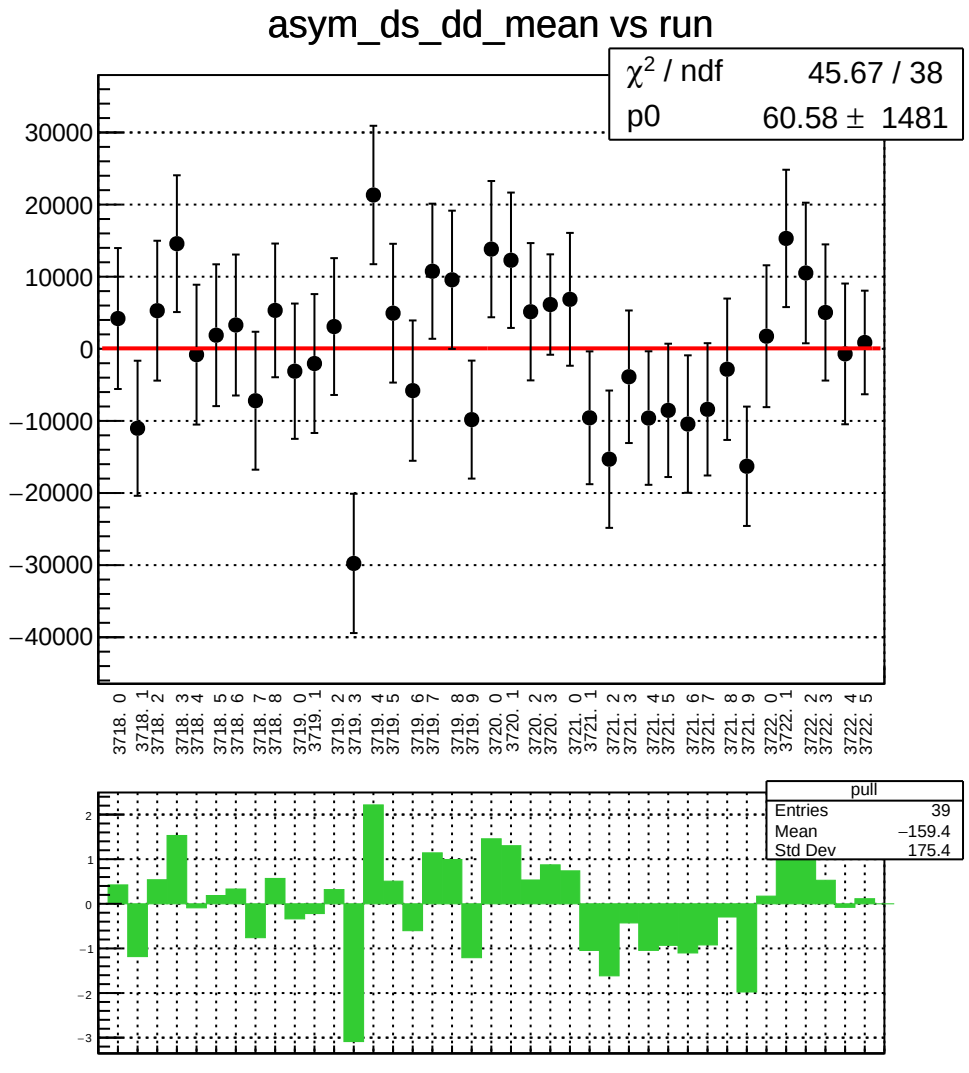

reg_asym_ds_dd_mean vs run
χ² / ndf 40.29 / 38
p0 916.3 ± 477.2
12000
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −132.2
Std Dev 160
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

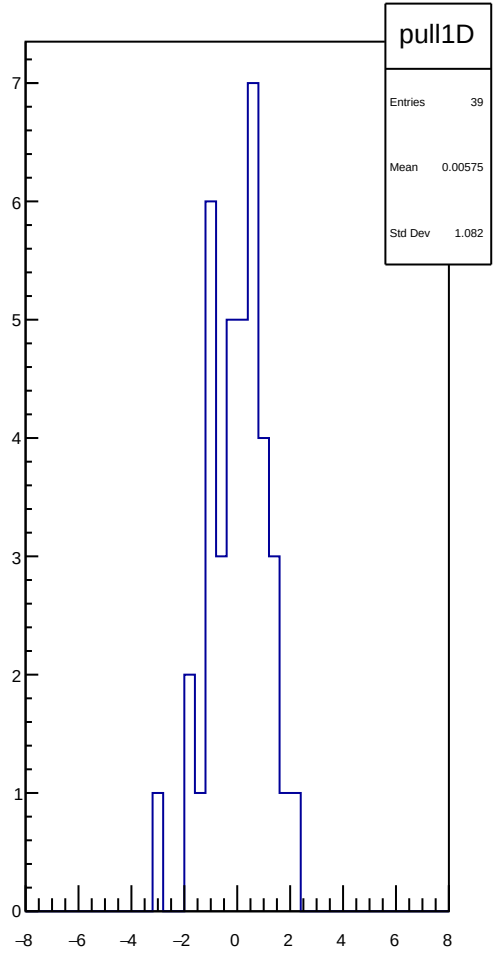

pull1D
Entries 39
Mean 0.01219
Std Dev 1.016
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

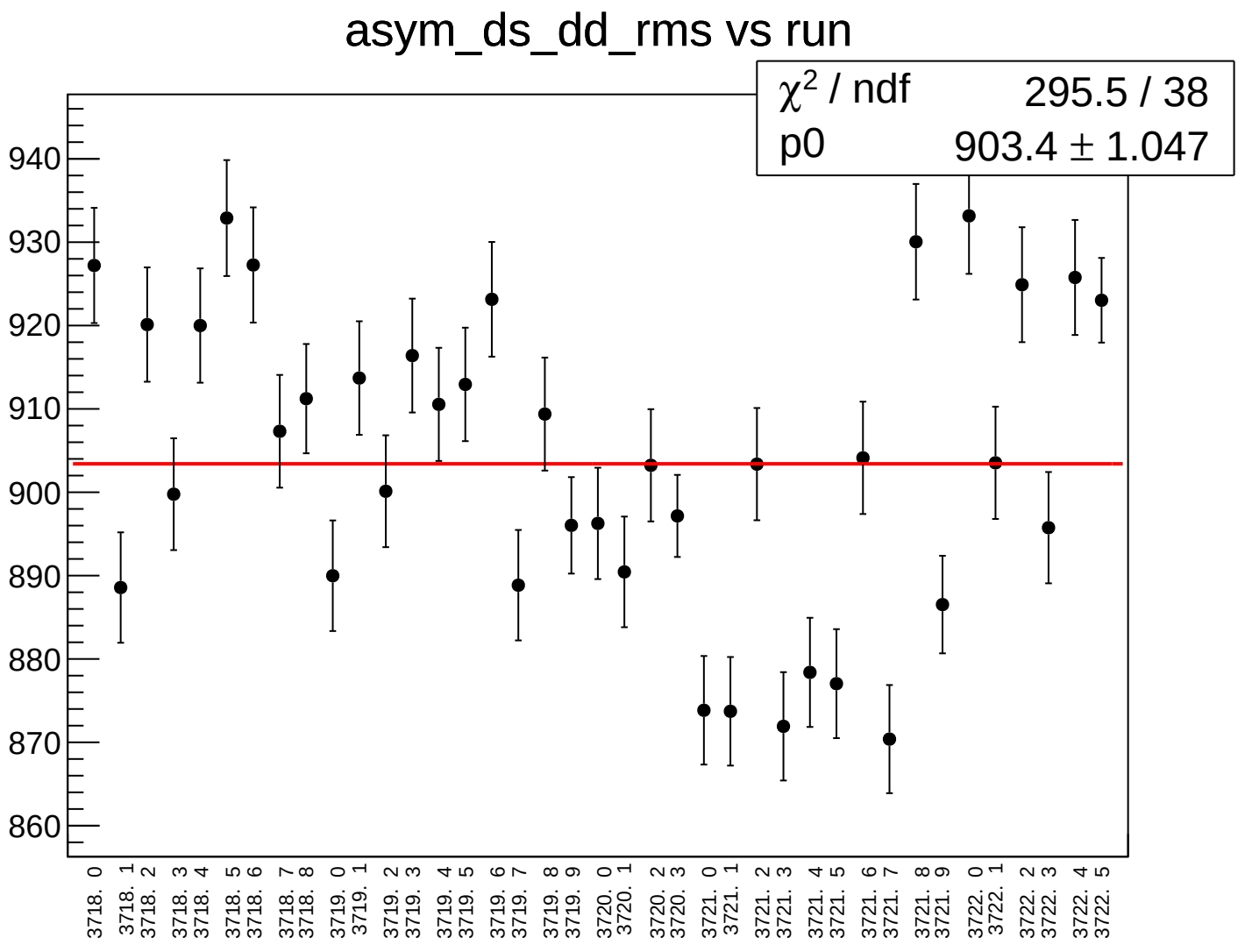

reg_asym_ds_dd_rms vs run
χ² / ndf 26.82 / 38
p0 291.2 ± 0.3374
298
296
294
292
290
288
286
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

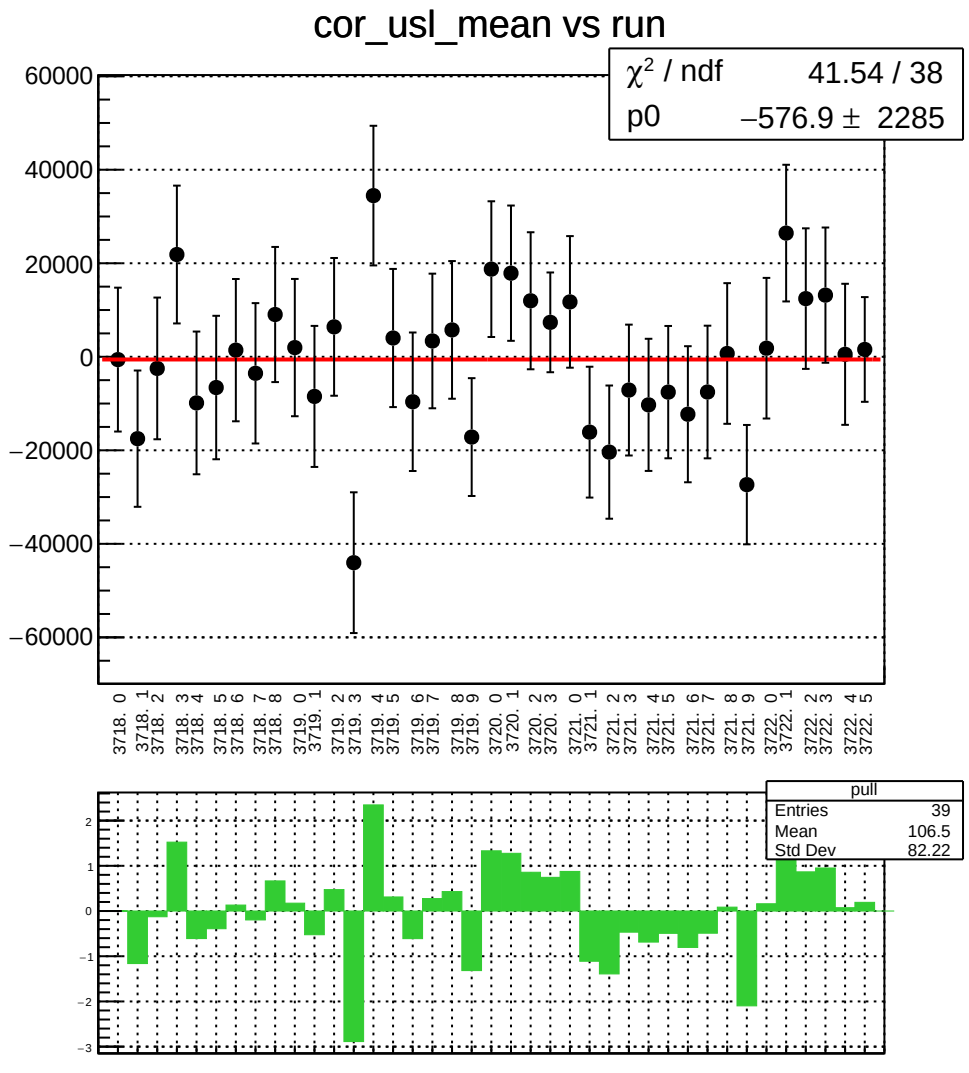

asym_ds_dd_correction_mean vs run
χ² / ndf 47.11 / 38
p0 882.6 ± 1402
40000
30000
20000
10000
0
−10000
−20000
−30000
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −109.2
Std Dev 107.2
3
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.003597
Std Dev 1.099
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

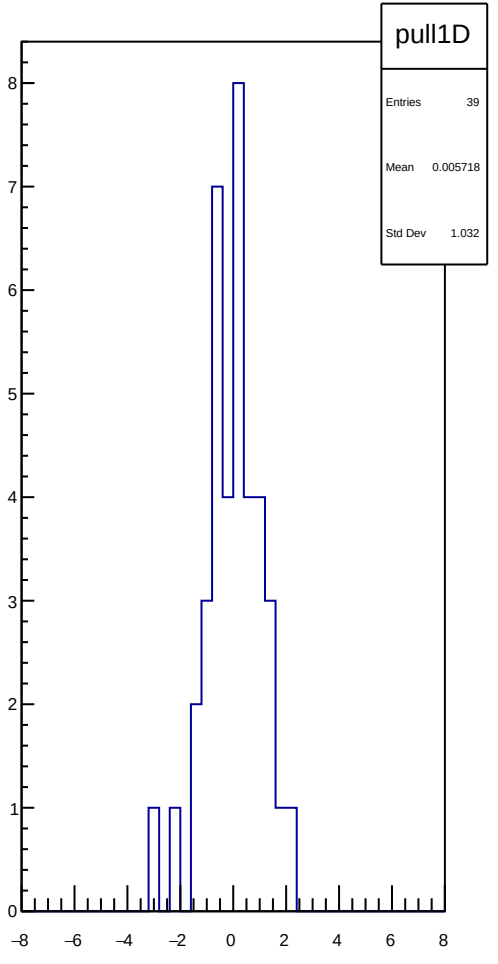

asym_ds_dd_correction_rms vs run
χ² / ndf 364.5 / 38
p0 855.1 ± 0.9913
890
880
870
860
850
840
830
820
810
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

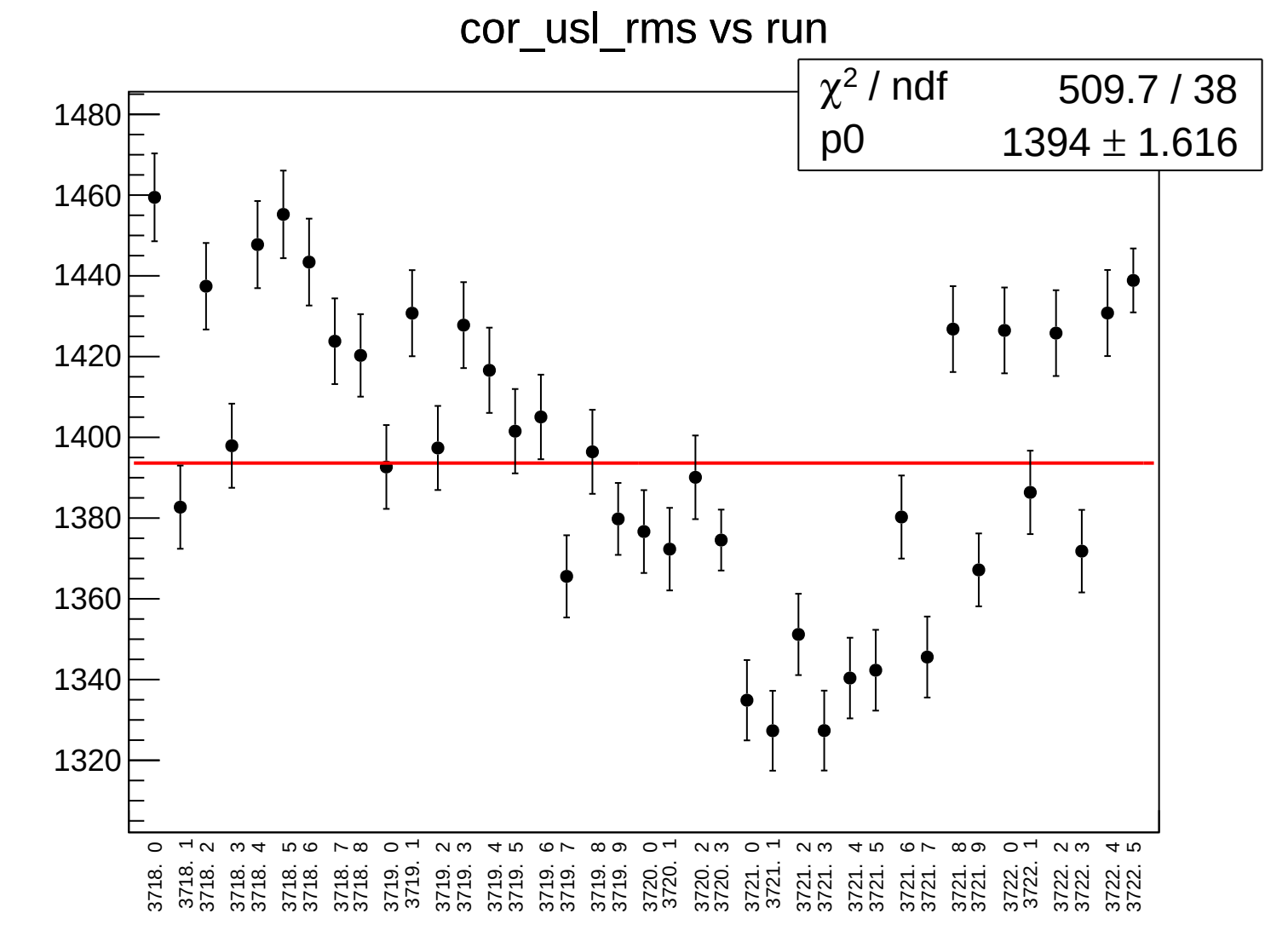

asym_ds_dd_mean vs run
χ² / ndf 45.67 / 38
p0 60.58 ± 1481
30000
20000
10000
0
−10000
−20000
−30000
−40000
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −159.4
Std Dev 175.4
2
1
0
−1
−2
−3

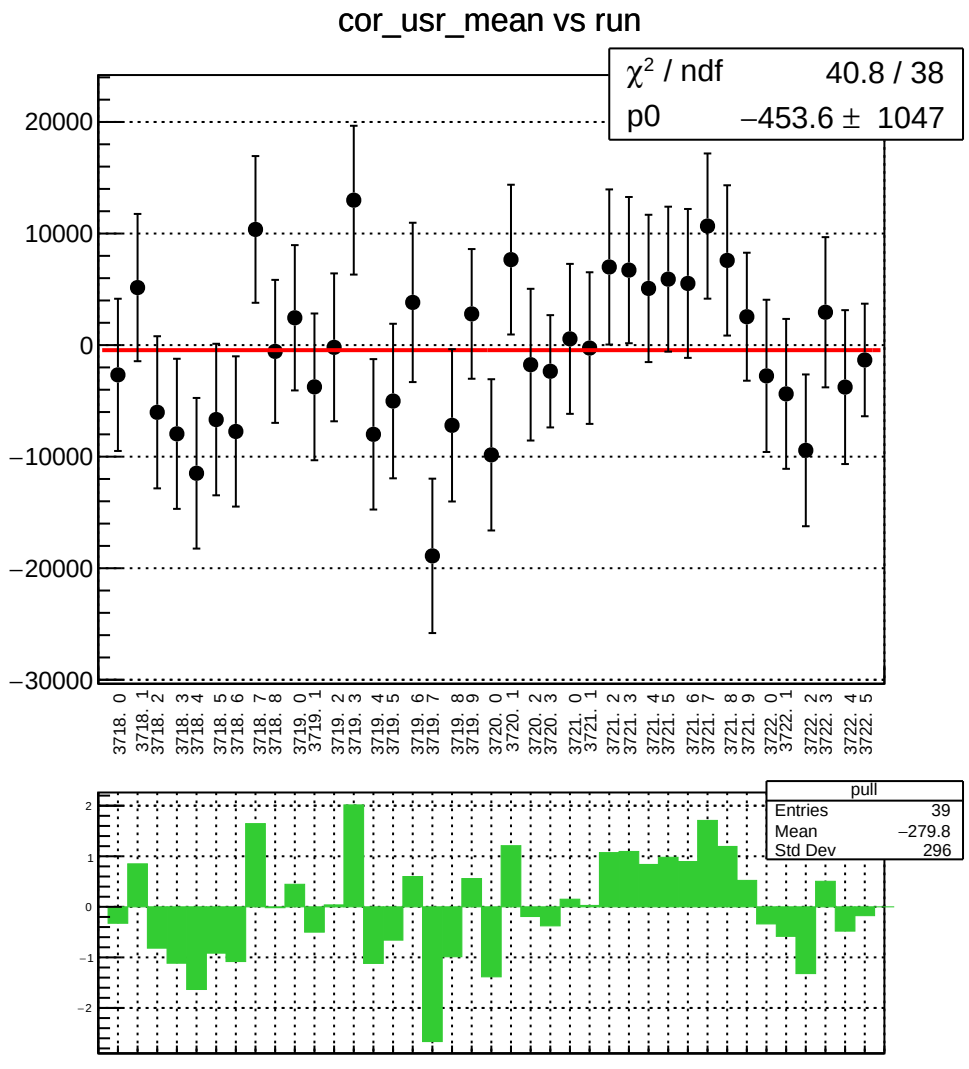

pull1D
Entries 39
Mean 0.00575
Std Dev 1.082
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

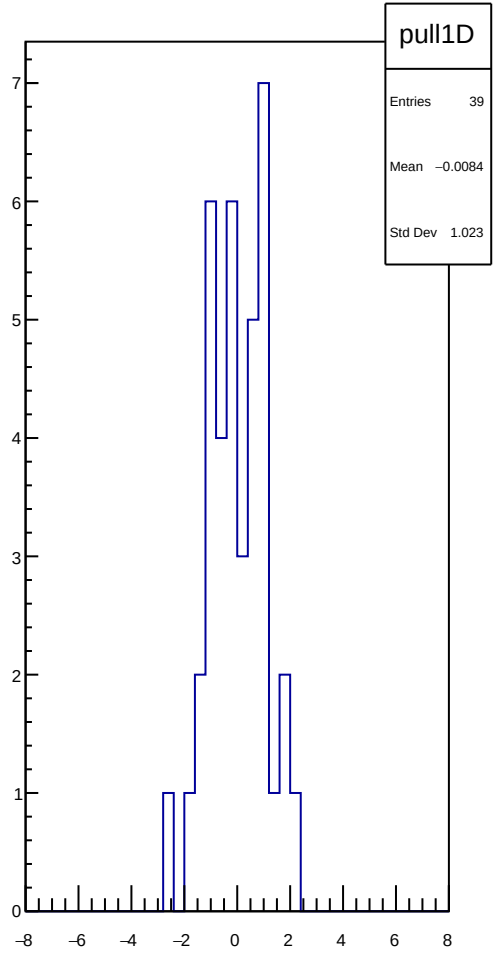

asym_ds_dd_rms vs run
χ² / ndf 295.5 / 38
p0 903.4 ± 1.047
940
930
920
910
900
890
880
870
860
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

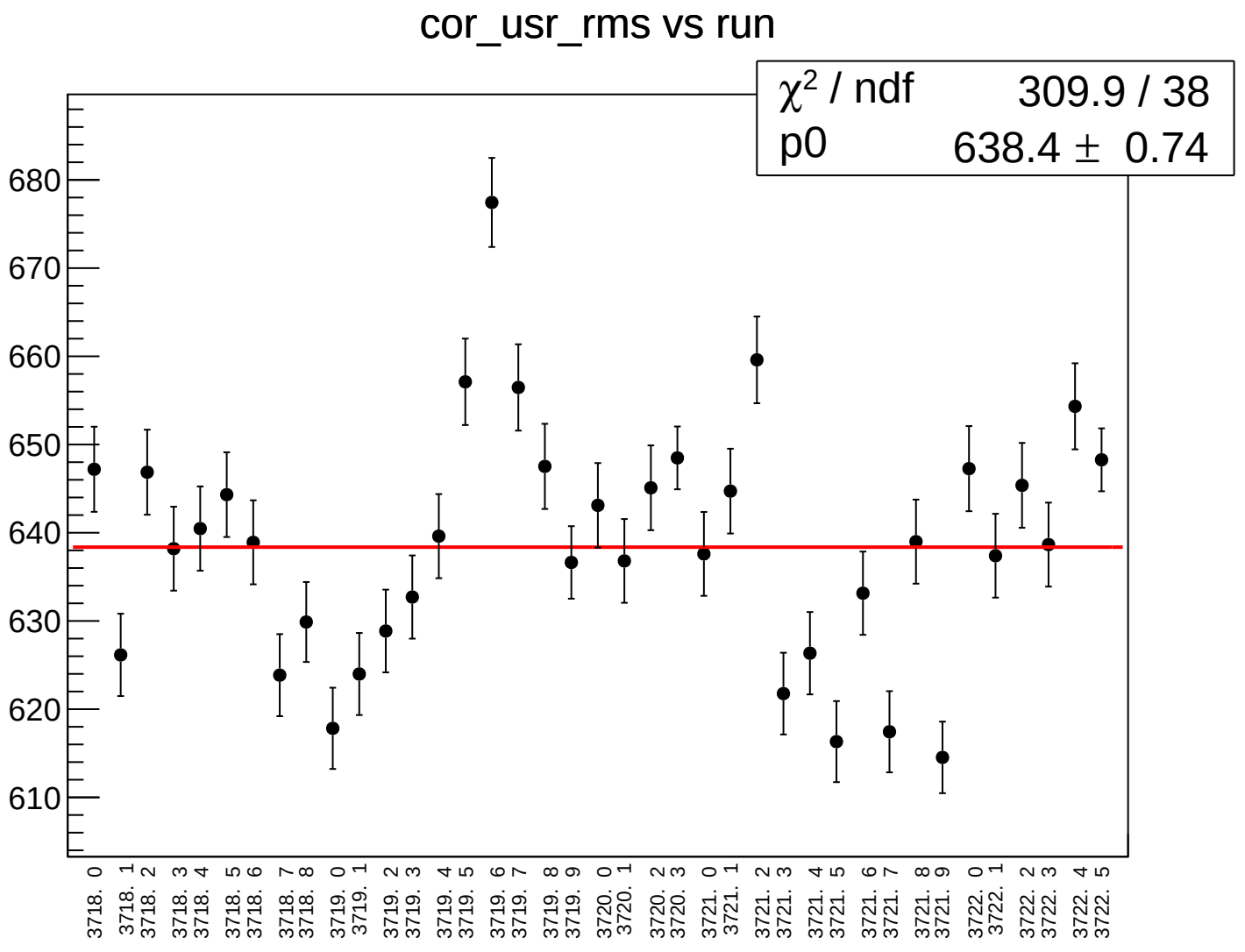

cor_usl_mean vs run
χ² / ndf 41.54 / 38
p0 −576.9 ± 2285
60000
40000
20000
0
−20000
−40000
−60000
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 106.5
Std Dev 82.22
2
1
0
−1
−2
−3

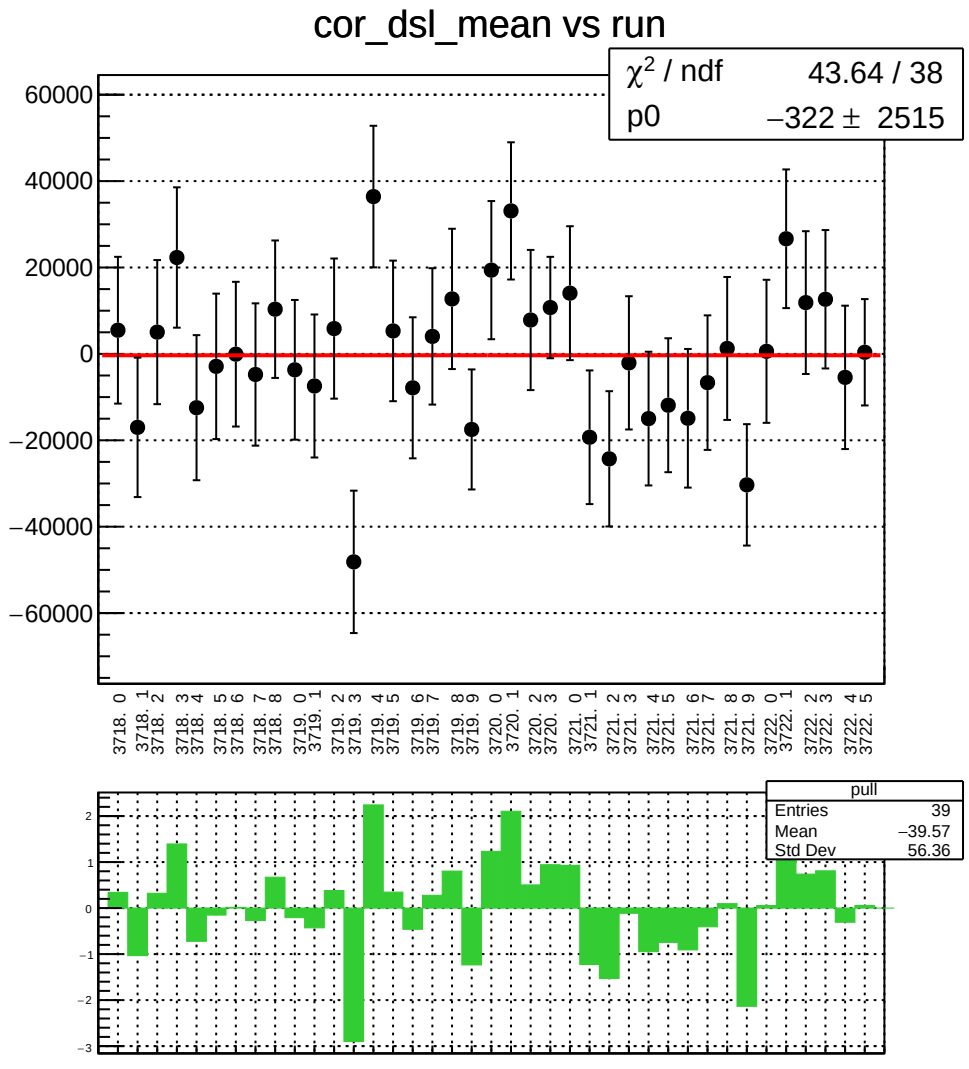

pull1D
Entries 39
Mean 0.005718
Std Dev 1.032
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

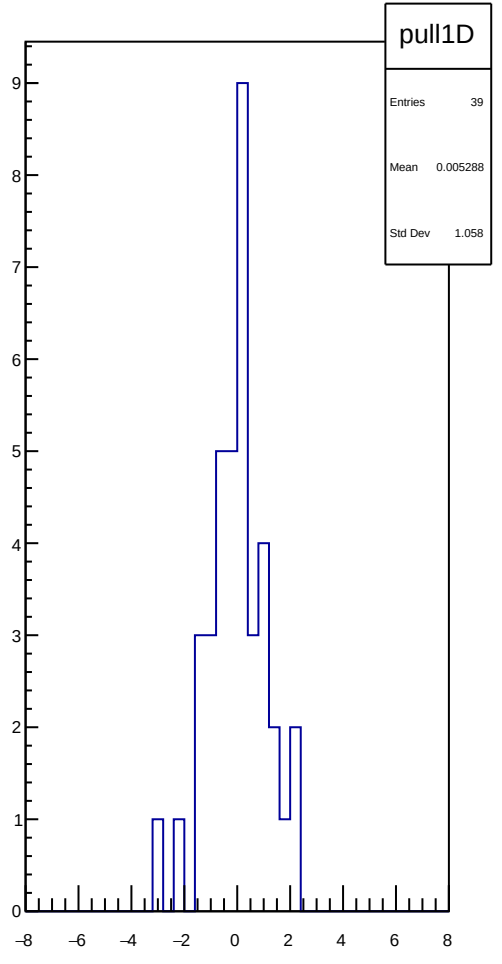

cor_usl_rms vs run
χ² / ndf 509.7 / 38
p0 1394 ± 1.616
1480
1460
1440
1420
1400
1380
1360
1340
1320
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

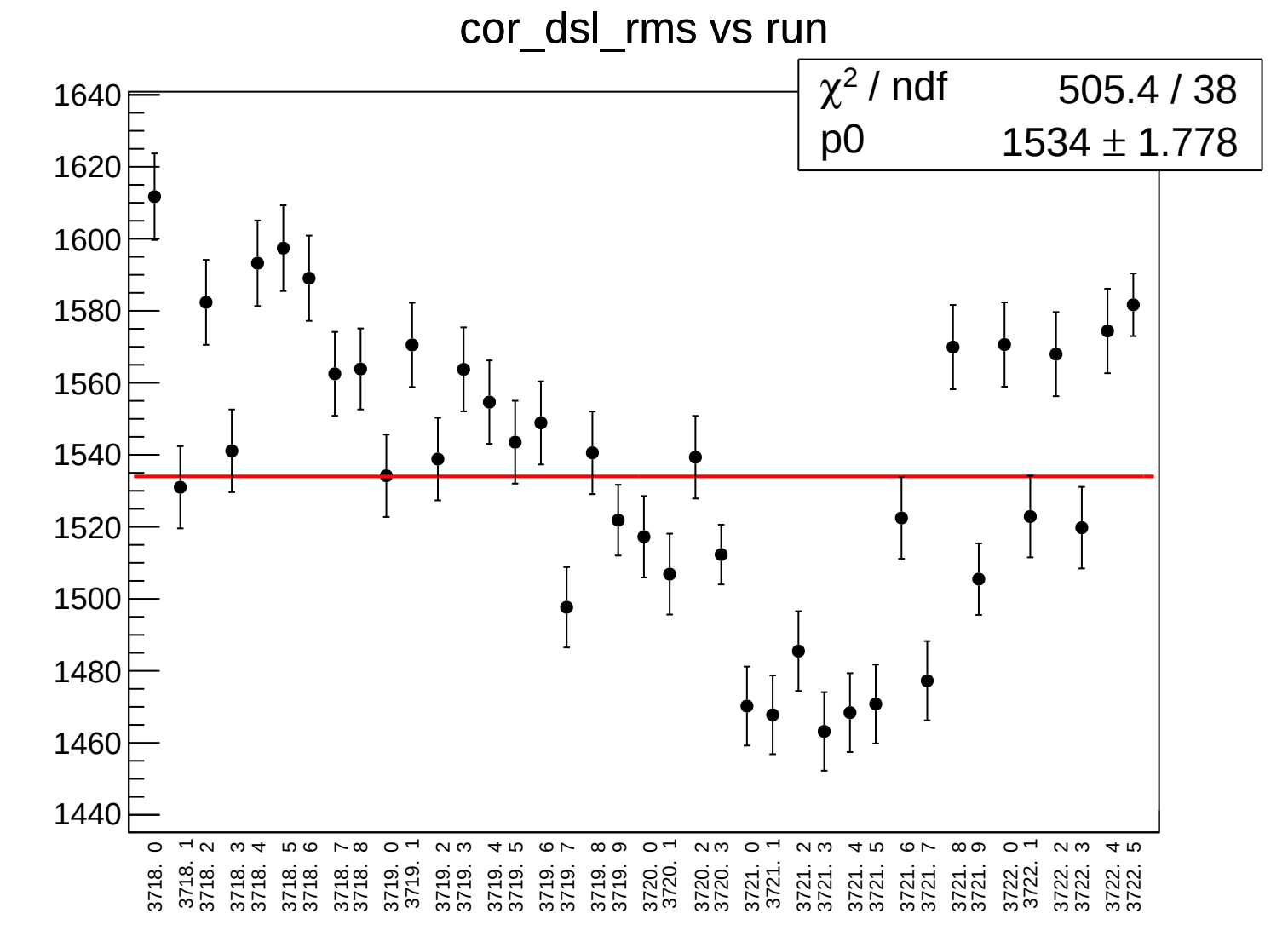

cor_usr_mean vs run
χ² / ndf 40.8 / 38
p0 −453.6 ± 1047
20000
10000
0
−10000
−20000
−30000
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −279.8
Std Dev 296
2
1
0
−1
−2

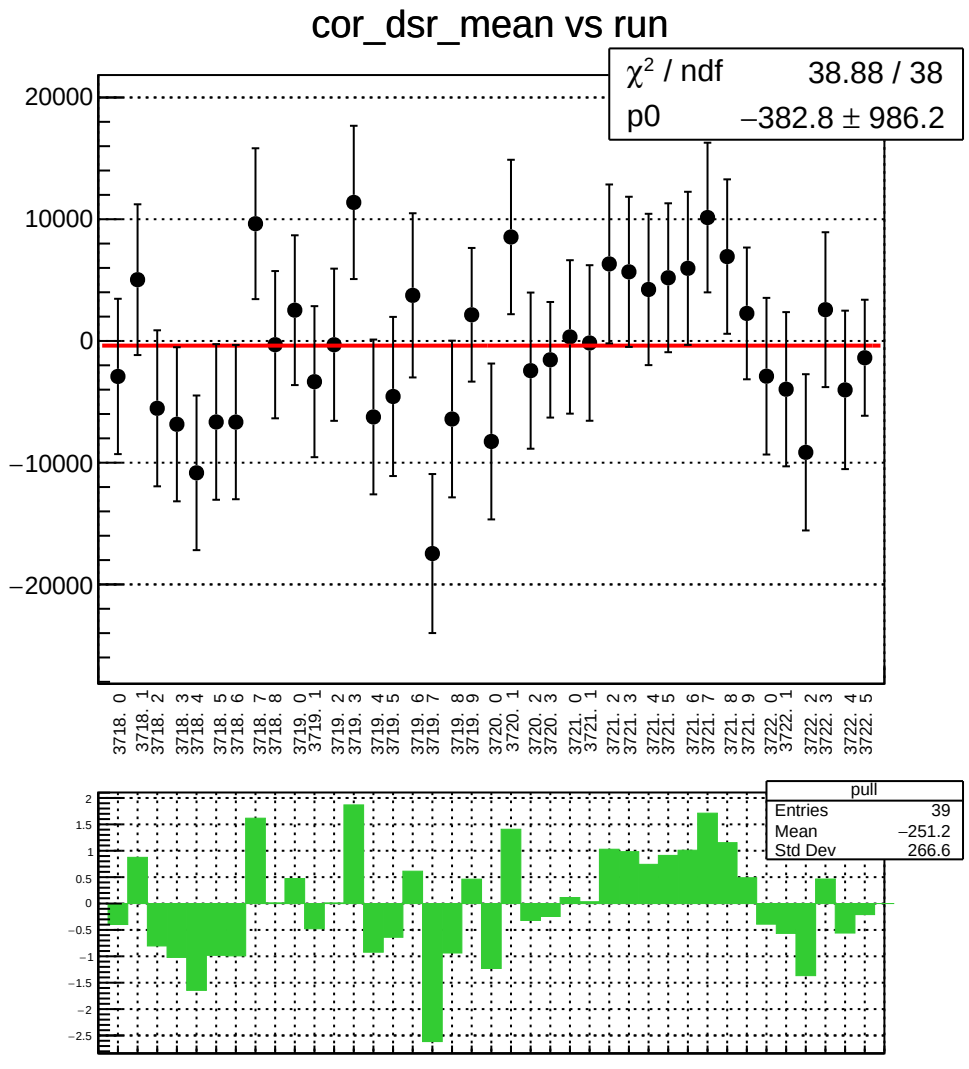

pull1D
Entries 39
Mean −0.0084
Std Dev 1.023
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

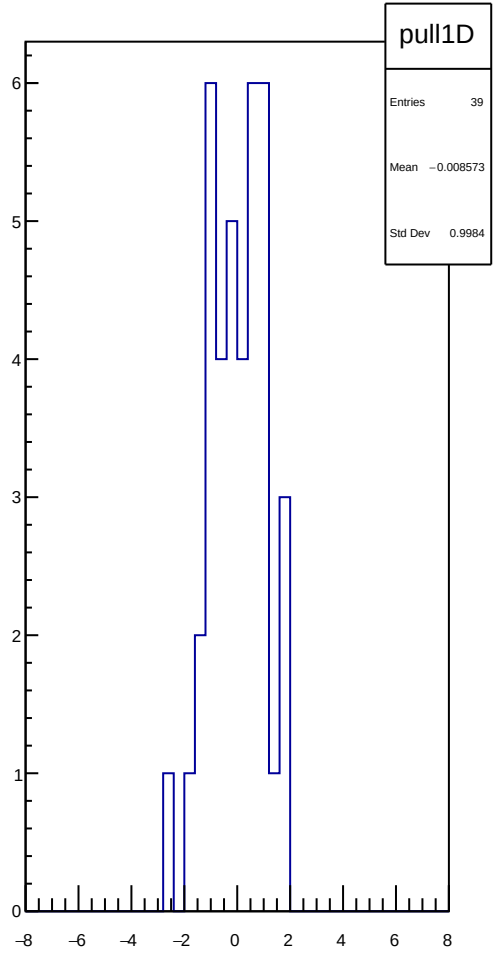

cor_usr_rms vs run
χ² / ndf 309.9 / 38
p0 638.4 ± 0.74
680
670
660
650
640
630
620
610
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

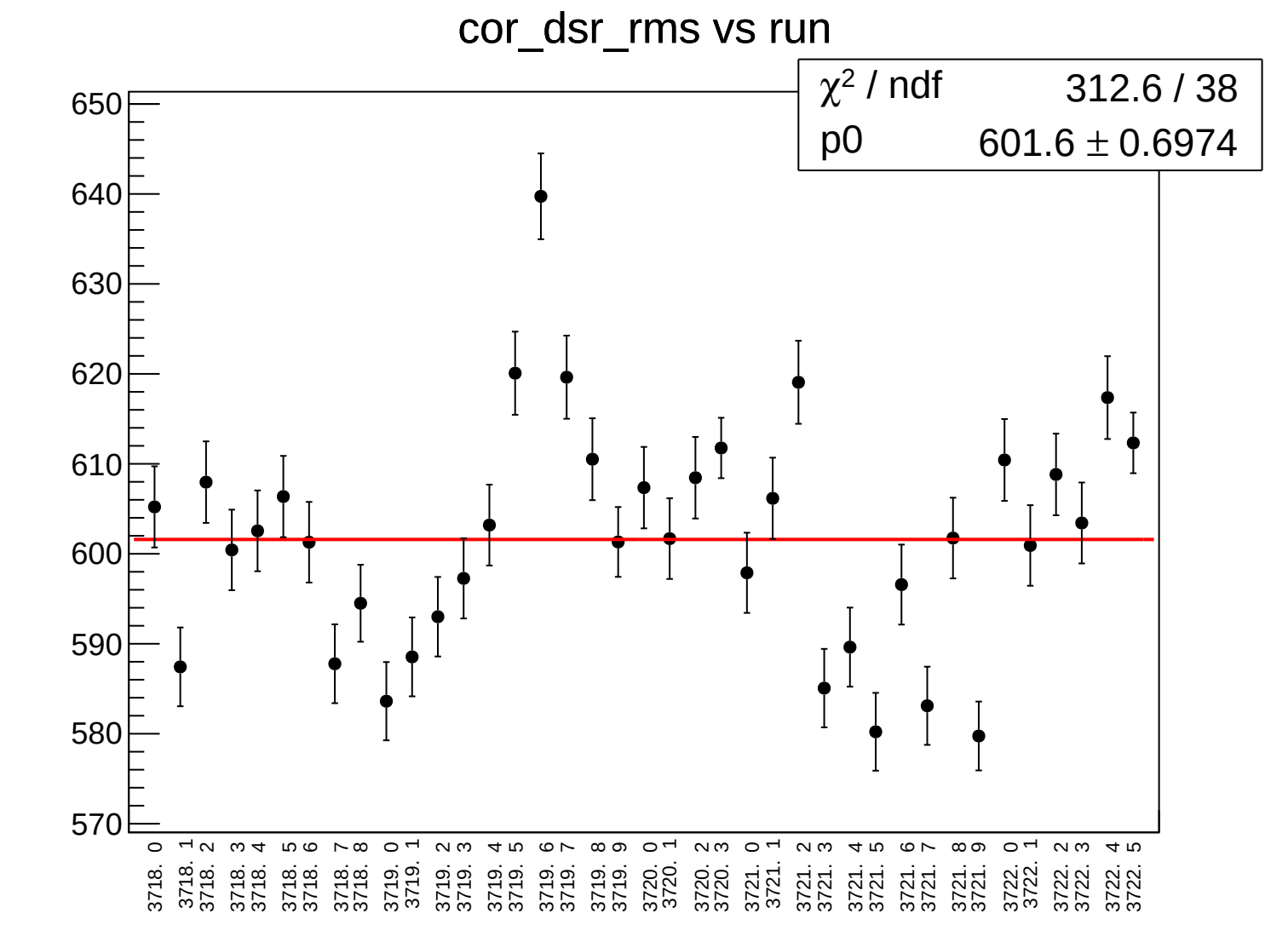

cor_dsl_mean vs run
χ² / ndf 43.64 / 38
p0 −322 ± 2515
60000
40000
20000
0
−20000
−40000
−60000
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −39.57
Std Dev 56.36
2
1
0
−1
−2
−3

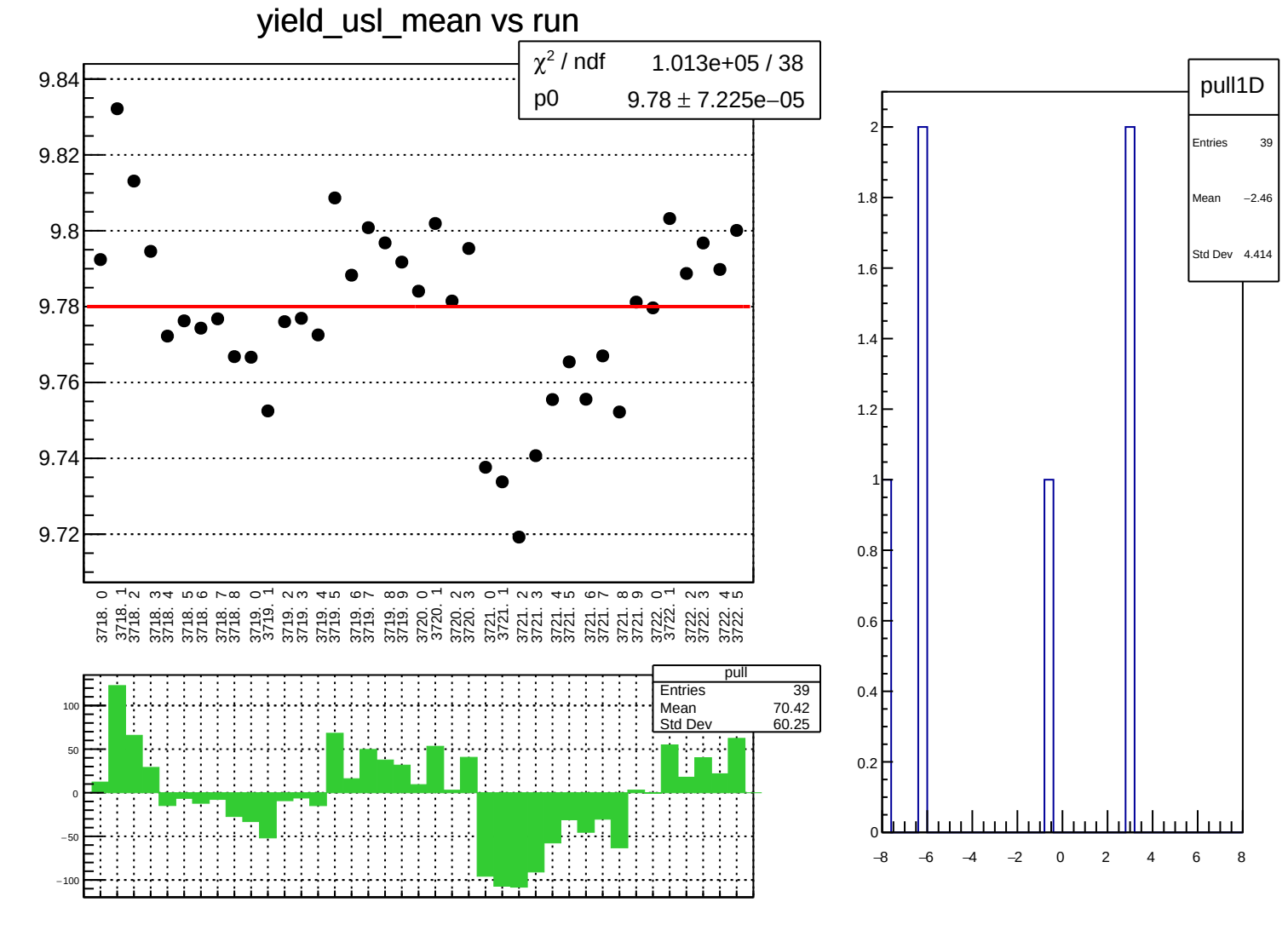

pull1D
Entries 39
Mean 0.005288
Std Dev 1.058
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

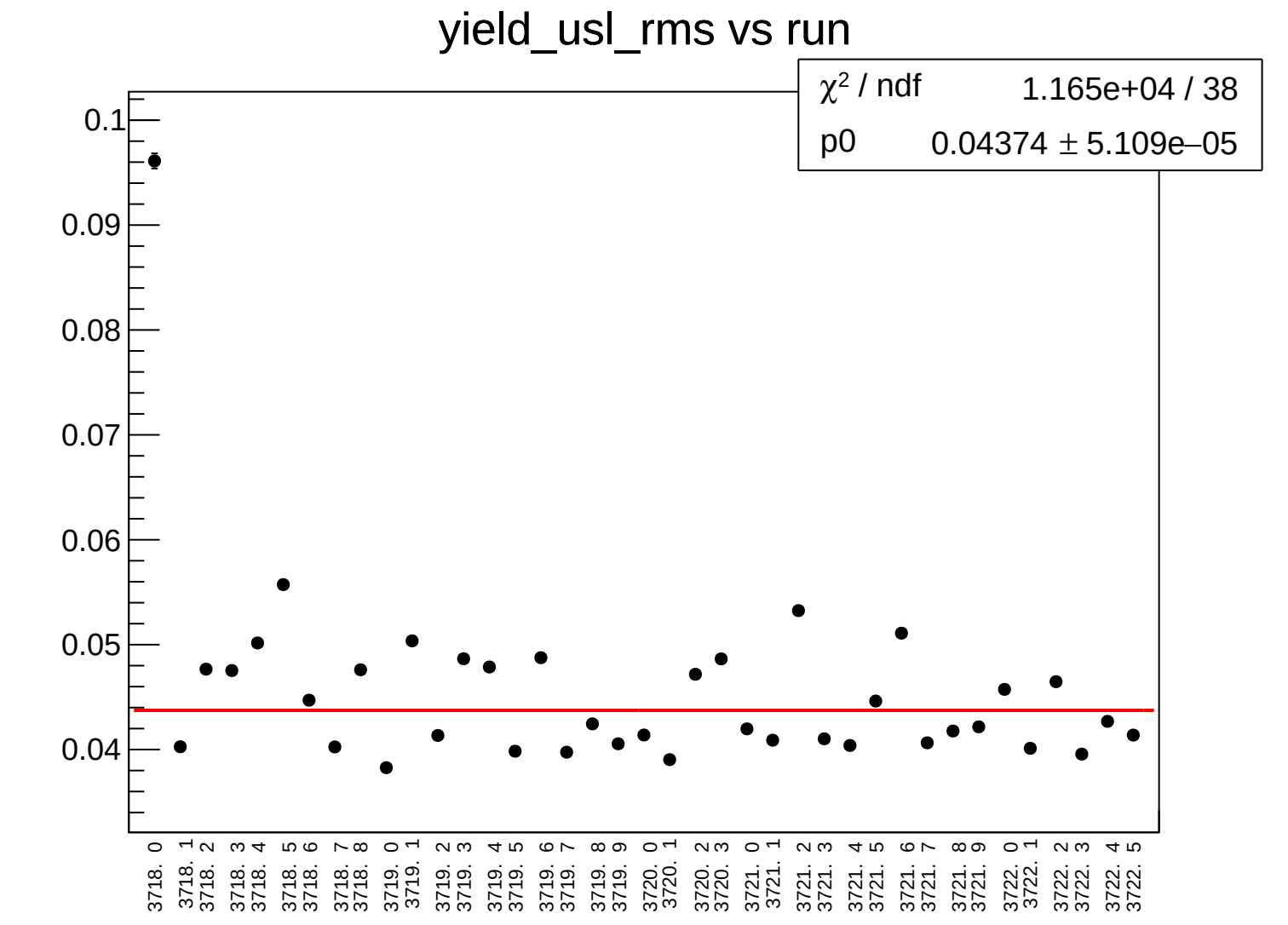

cor_dsl_rms vs run
χ² / ndf 505.4 / 38
p0 1534 ± 1.778
1640
1620
1600
1580
1560
1540
1520
1500
1480
1460
1440
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

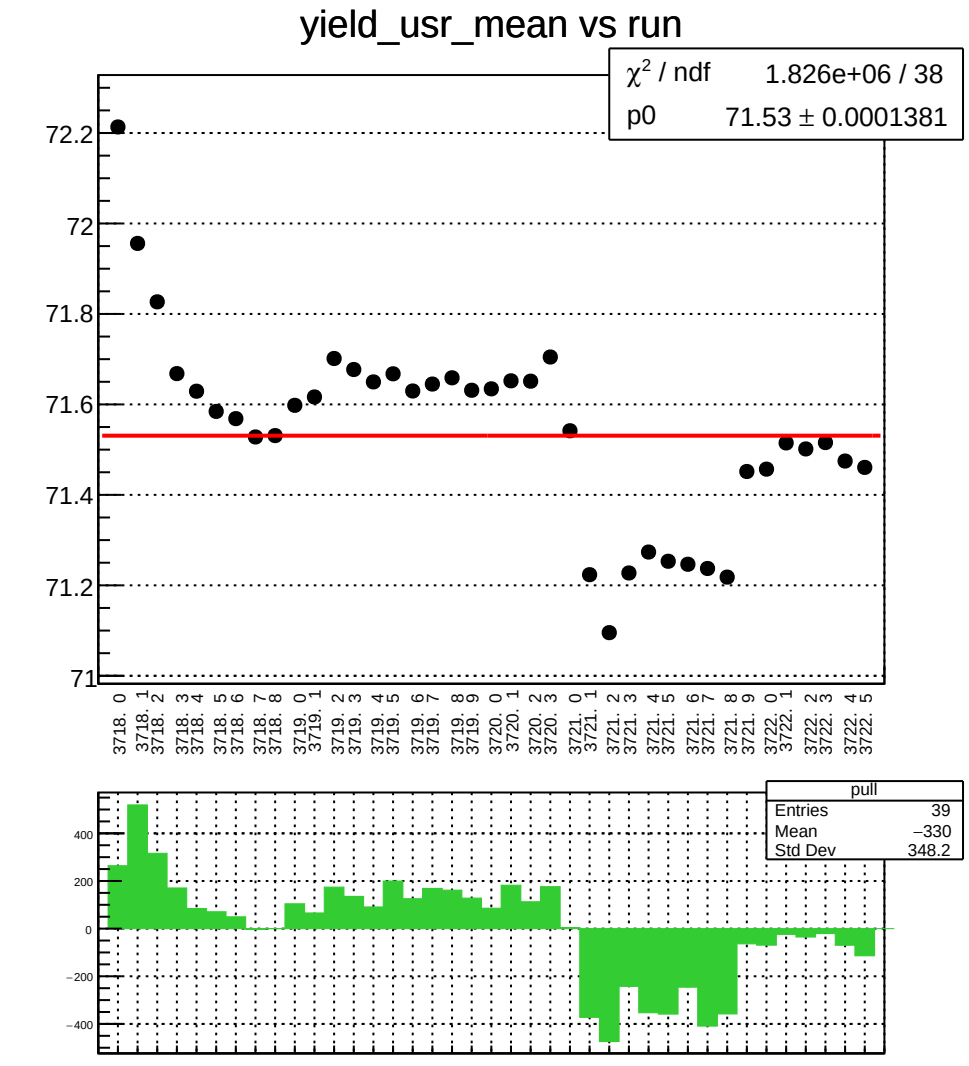

cor_dsr_mean vs run
χ² / ndf 38.88 / 38
p0 −382.8 ± 986.2
20000
10000
0
−10000
−20000
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −251.2
Std Dev 266.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

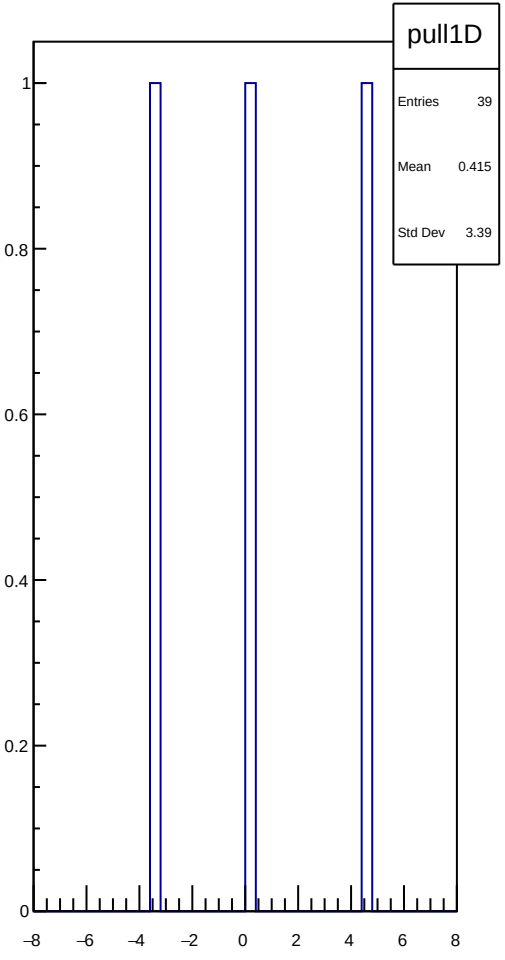

pull1D
Entries 39
Mean −0.008573
Std Dev 0.9984
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

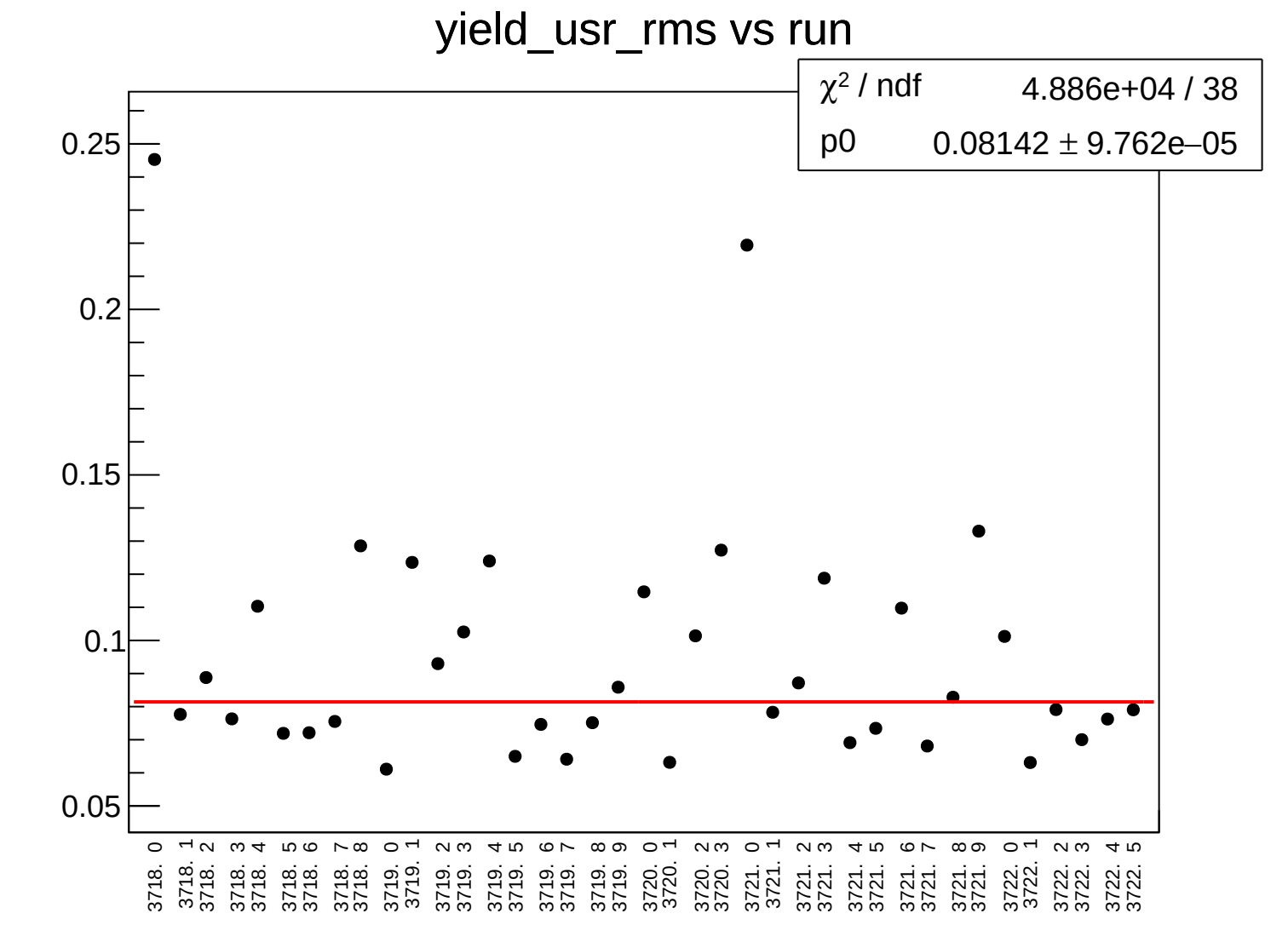

cor_dsr_rms vs run
χ² / ndf 312.6 / 38
p0 601.6 ± 0.6974
650
640
630
620
610
600
590
580
570
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

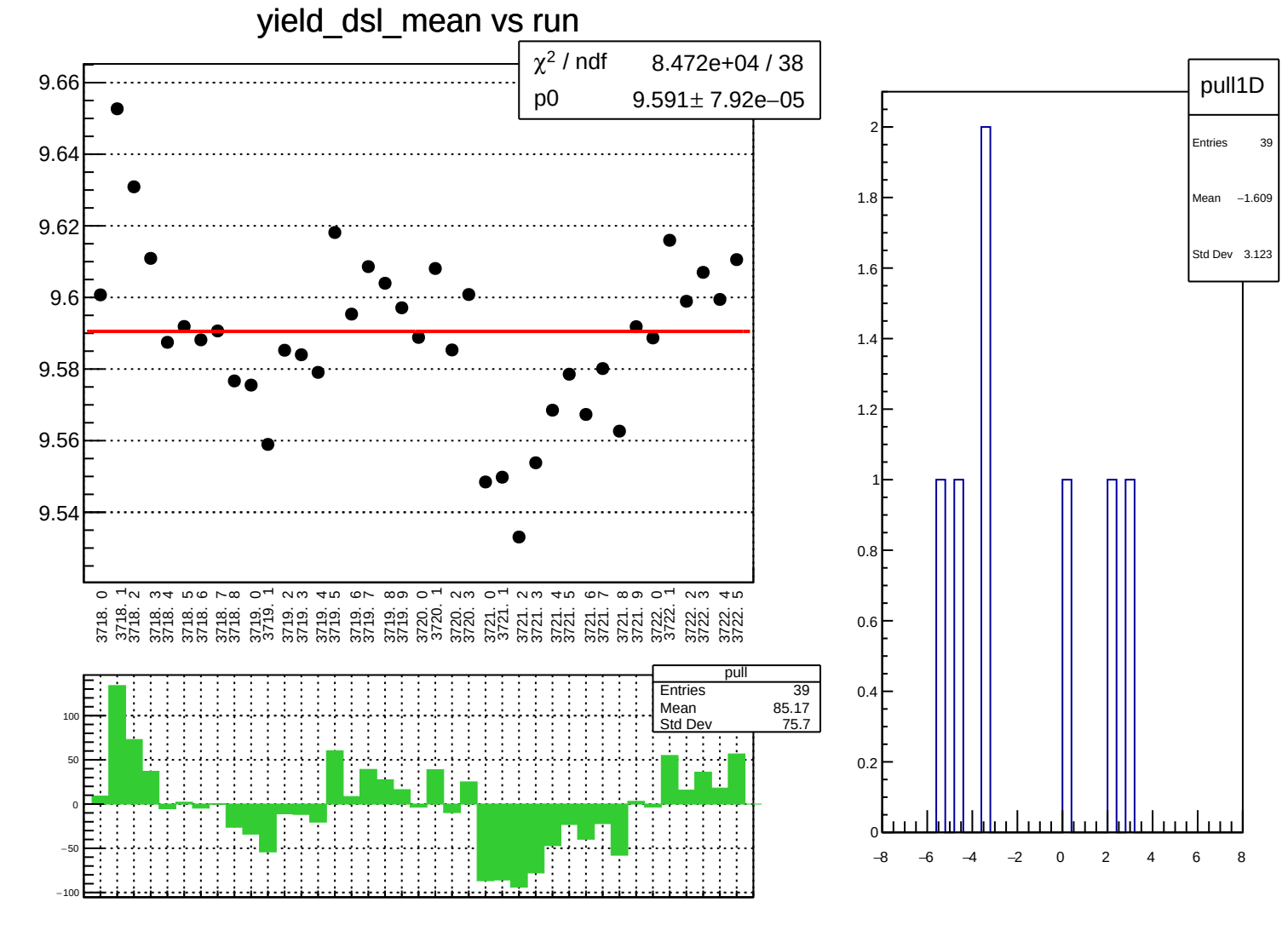

yield_usl_mean vs run
χ² / ndf 1.013e+05 / 38
p0 9.78 ± 7.225e−05
9.84
9.82
9.8
9.78
9.76
9.74
9.72
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 70.42
Std Dev 60.25
100
50
0
−50
−100
pull1D
Entries 39
Mean −2.46
Std Dev 4.414
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

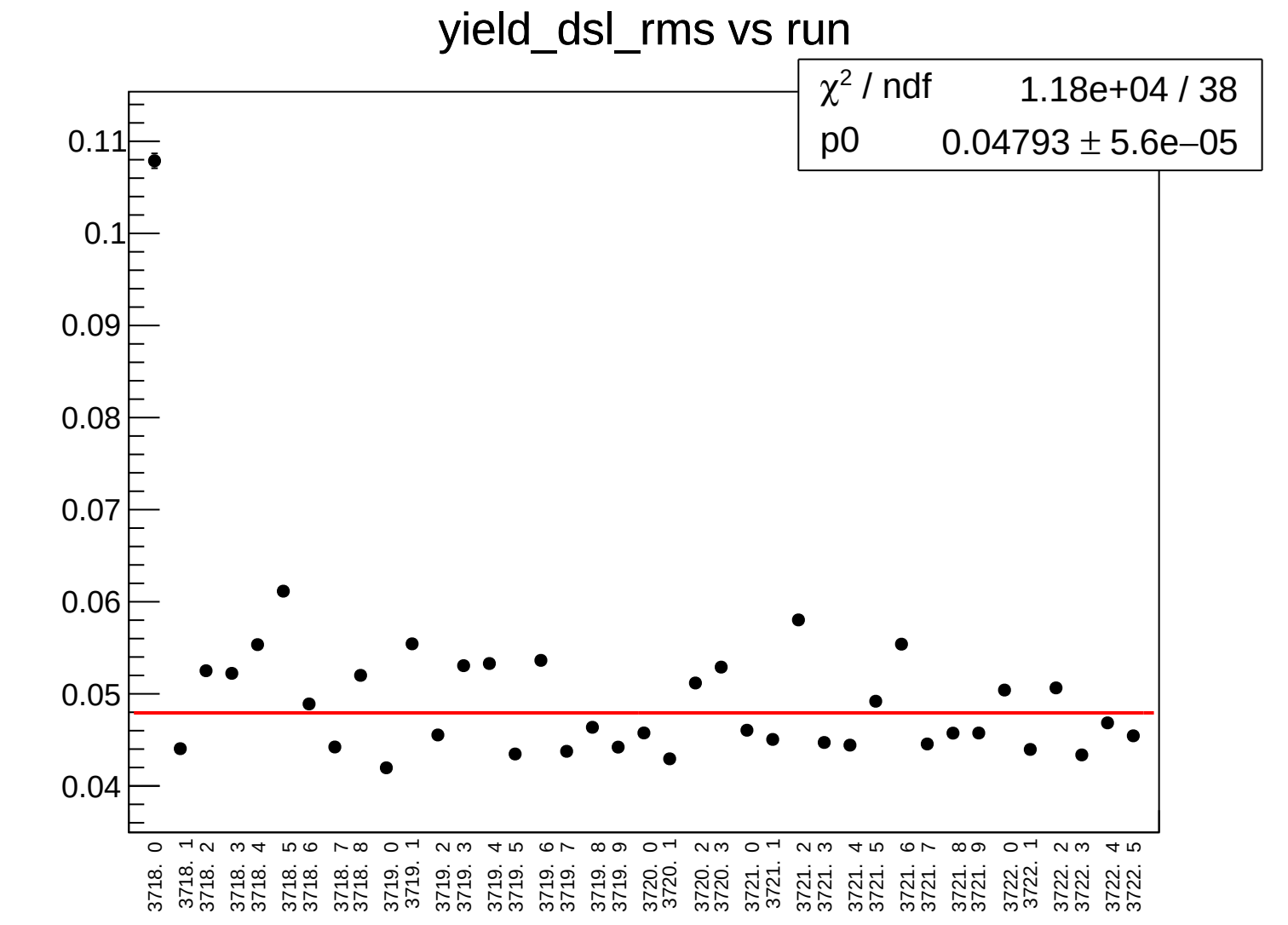

yield_usl_rms vs run
χ² / ndf 1.165e+04 / 38
p0 0.04374 ± 5.109e–05
0.1
0.09
0.08
0.07
0.06
0.05
0.04
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

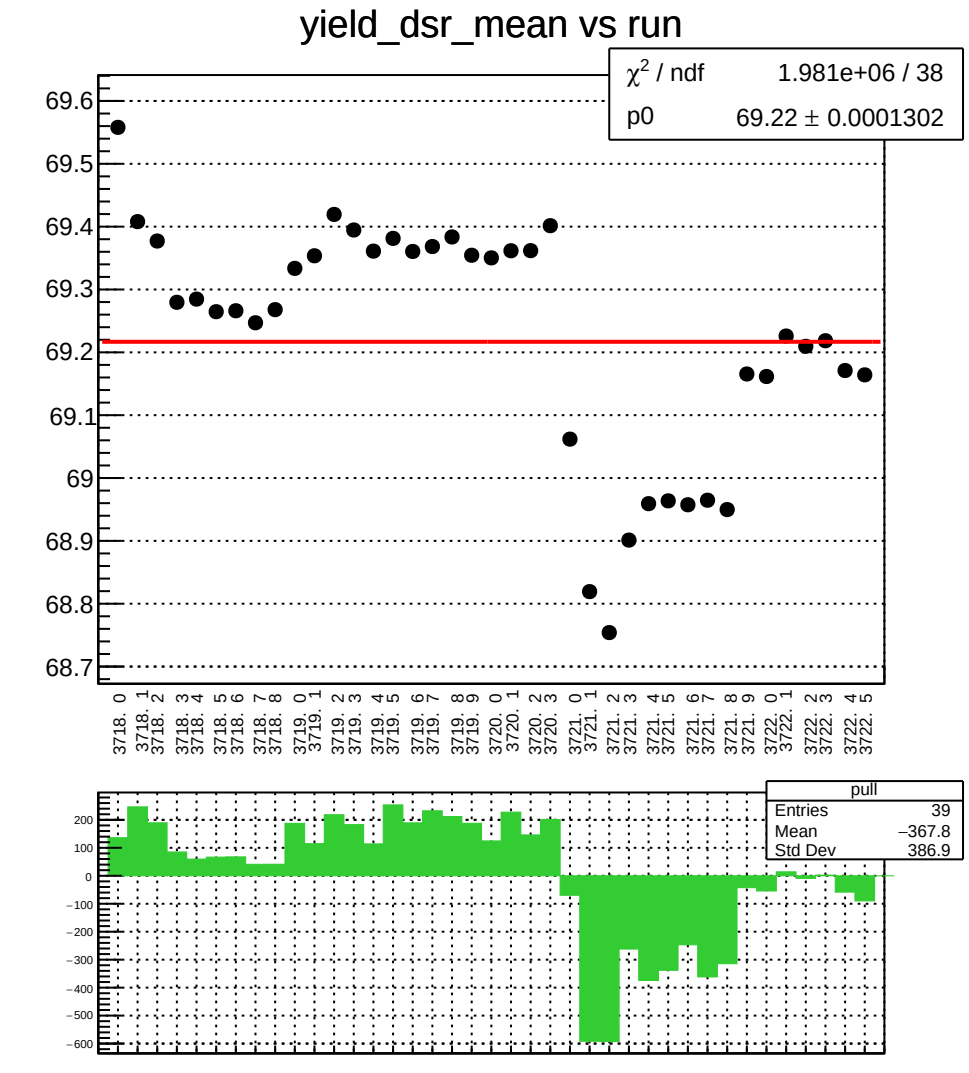

yield_usr_mean vs run
χ² / ndf 1.826e+06 / 38
p0 71.53 ± 0.0001381
72.2
72
71.8
71.6
71.4
71.2
71
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −330
Std Dev 348.2
400
200
0
−200
−400

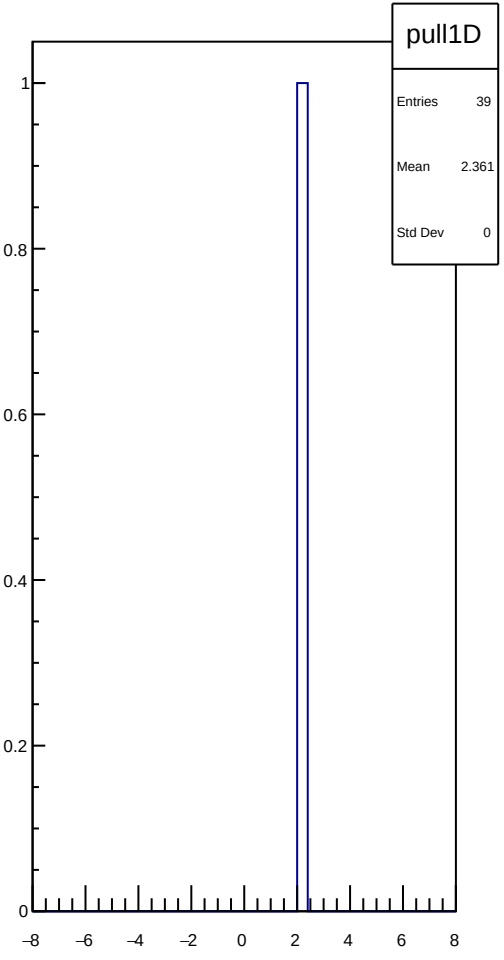

pull1D
Entries 39
Mean 0.415
Std Dev 3.39
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

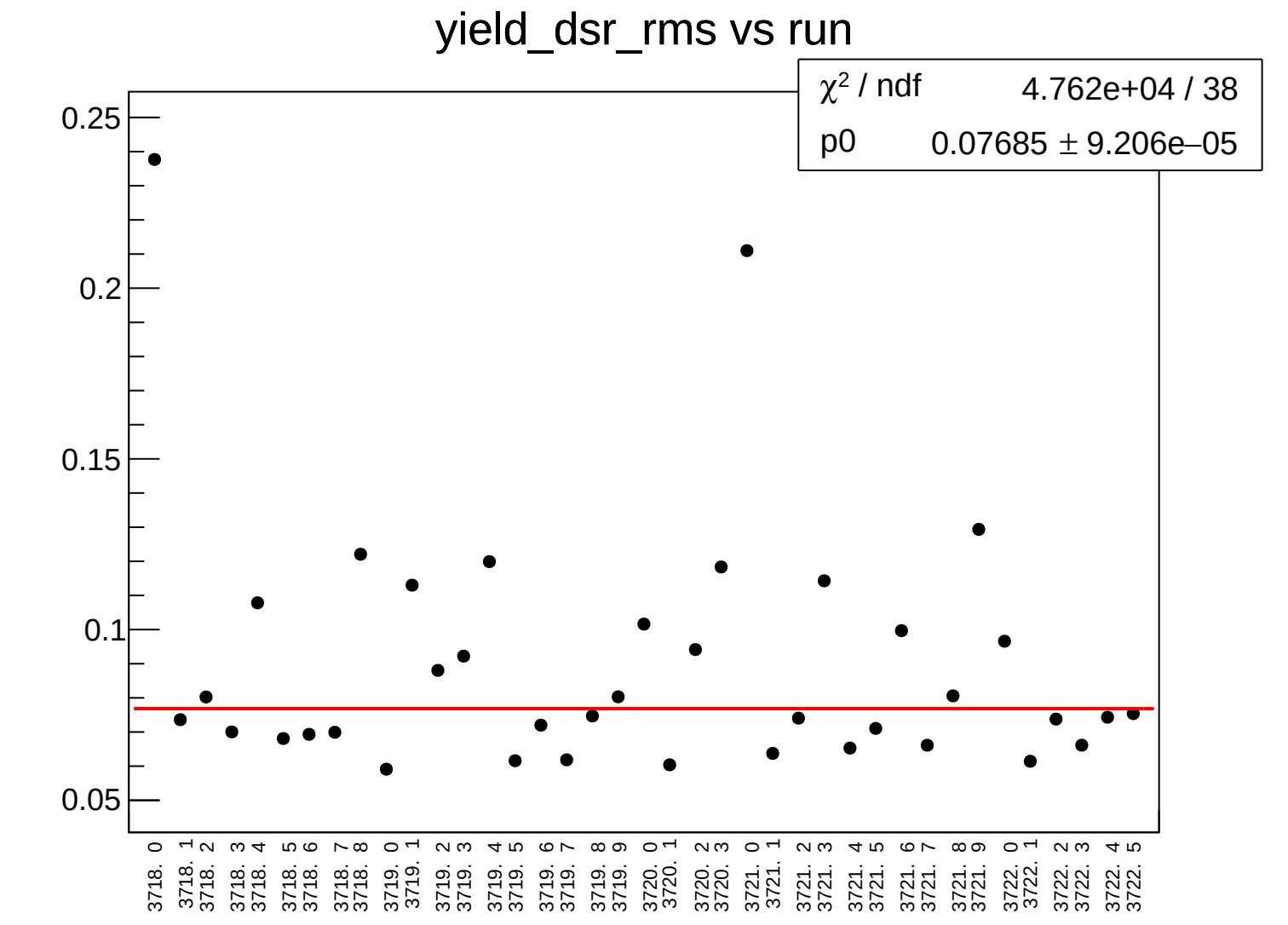

yield_usr_rms vs run
χ² / ndf 4.886e+04 / 38
p0 0.08142 ± 9.762e–05
0.25
0.2
0.15
0.1
0.05
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

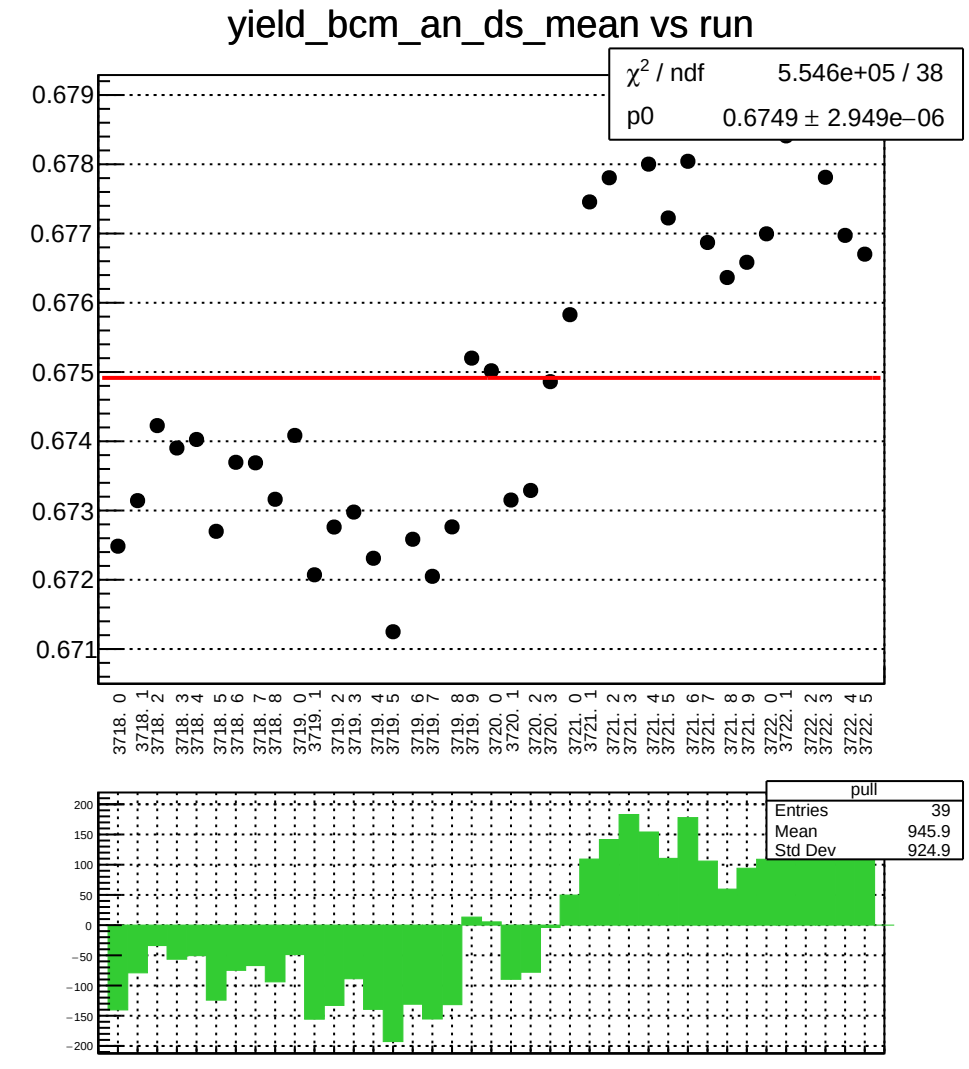

yield_dsl_mean vs run
χ² / ndf 8.472e+04 / 38
p0 9.591± 7.92e−05
9.66
9.64
9.62
9.6
9.58
9.56
9.54
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 85.17
Std Dev 75.7
100
50
0
−50
−100
pull1D
Entries 39
Mean −1.609
Std Dev 3.123
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

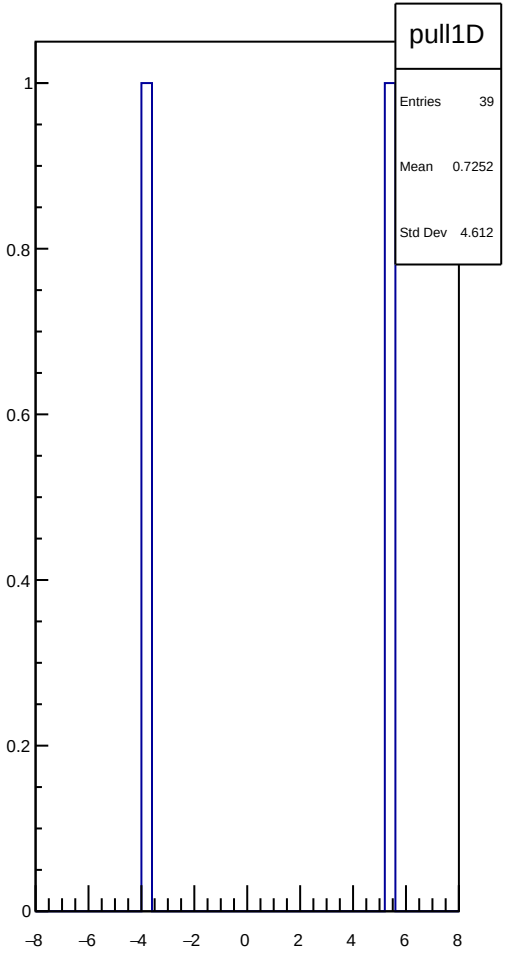

yield_dsl_rms vs run
χ² / ndf 1.18e+04 / 38
p0 0.04793 ± 5.6e−05
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

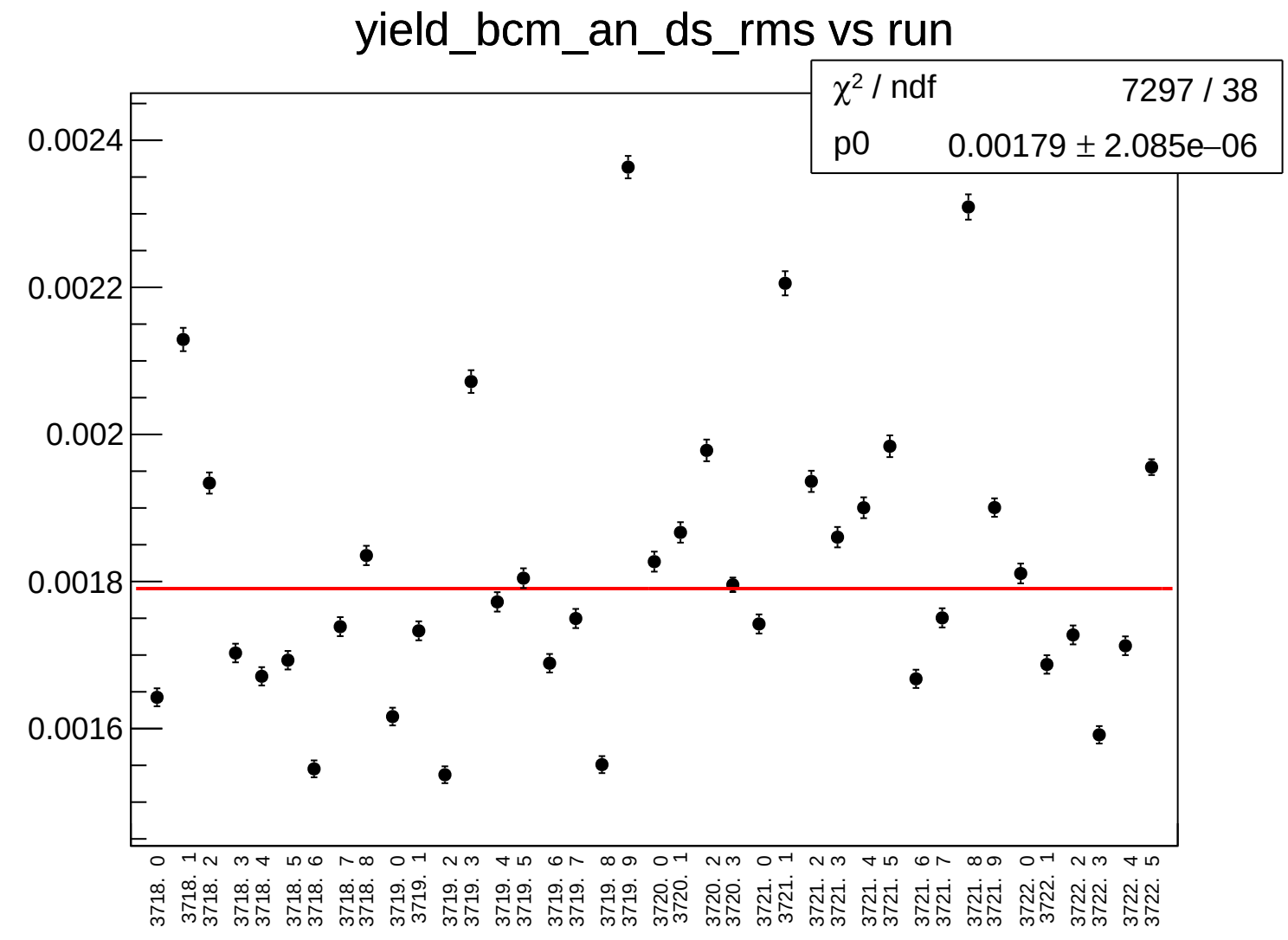

yield_dsr_mean vs run
χ² / ndf 1.981e+06 / 38
p0 69.22 ± 0.0001302
69.6
69.5
69.4
69.3
69.2
69.1
69
68.9
68.8
68.7
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −367.8
Std Dev 386.9
200
100
0
−100
−200
−300
−400
−500
−600

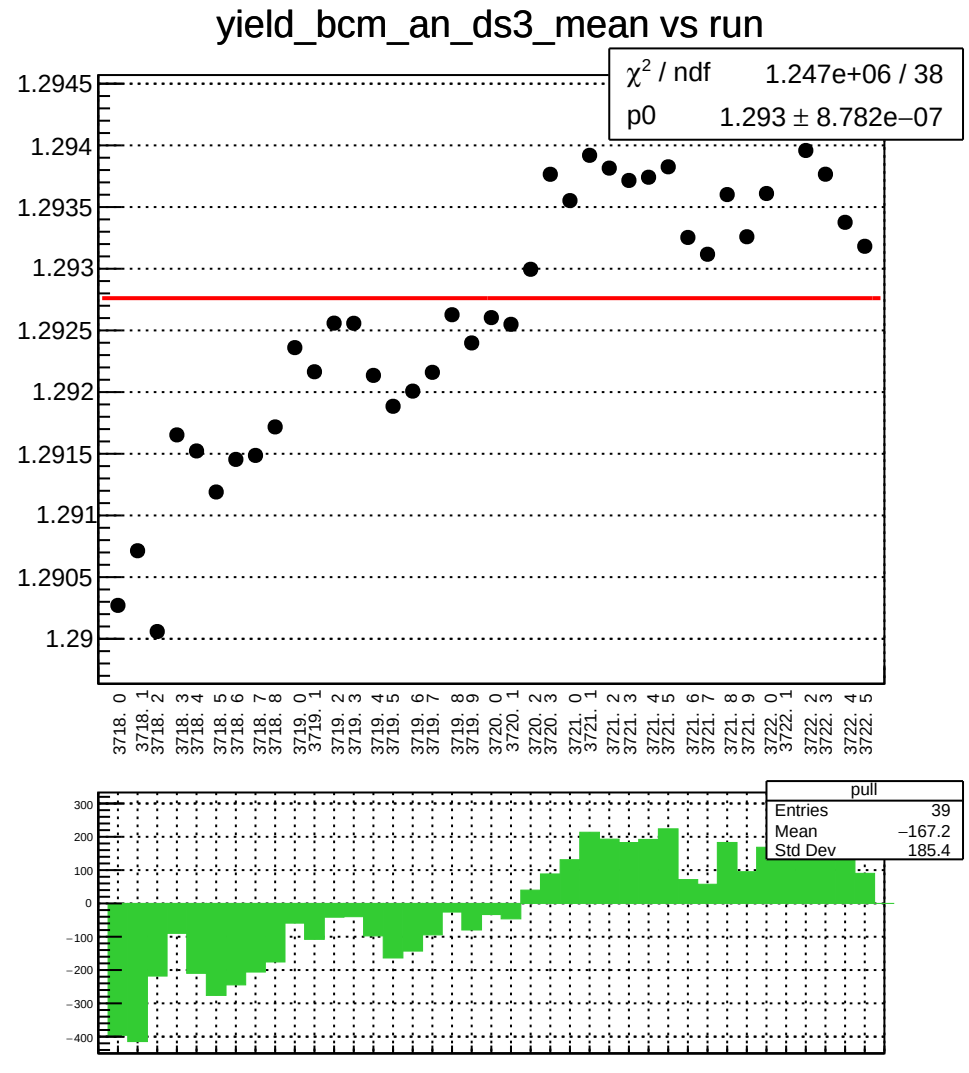

pull1D
Entries 39
Mean 2.361
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

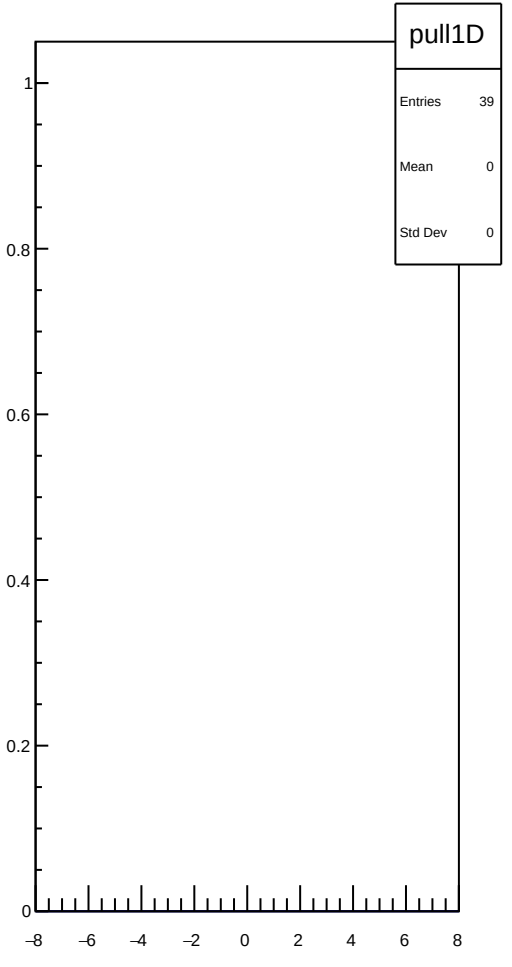

yield_dsr_rms vs run
χ² / ndf 4.762e+04 / 38
p0 0.07685 ± 9.206e–05
0.25
0.2
0.15
0.1
0.05
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

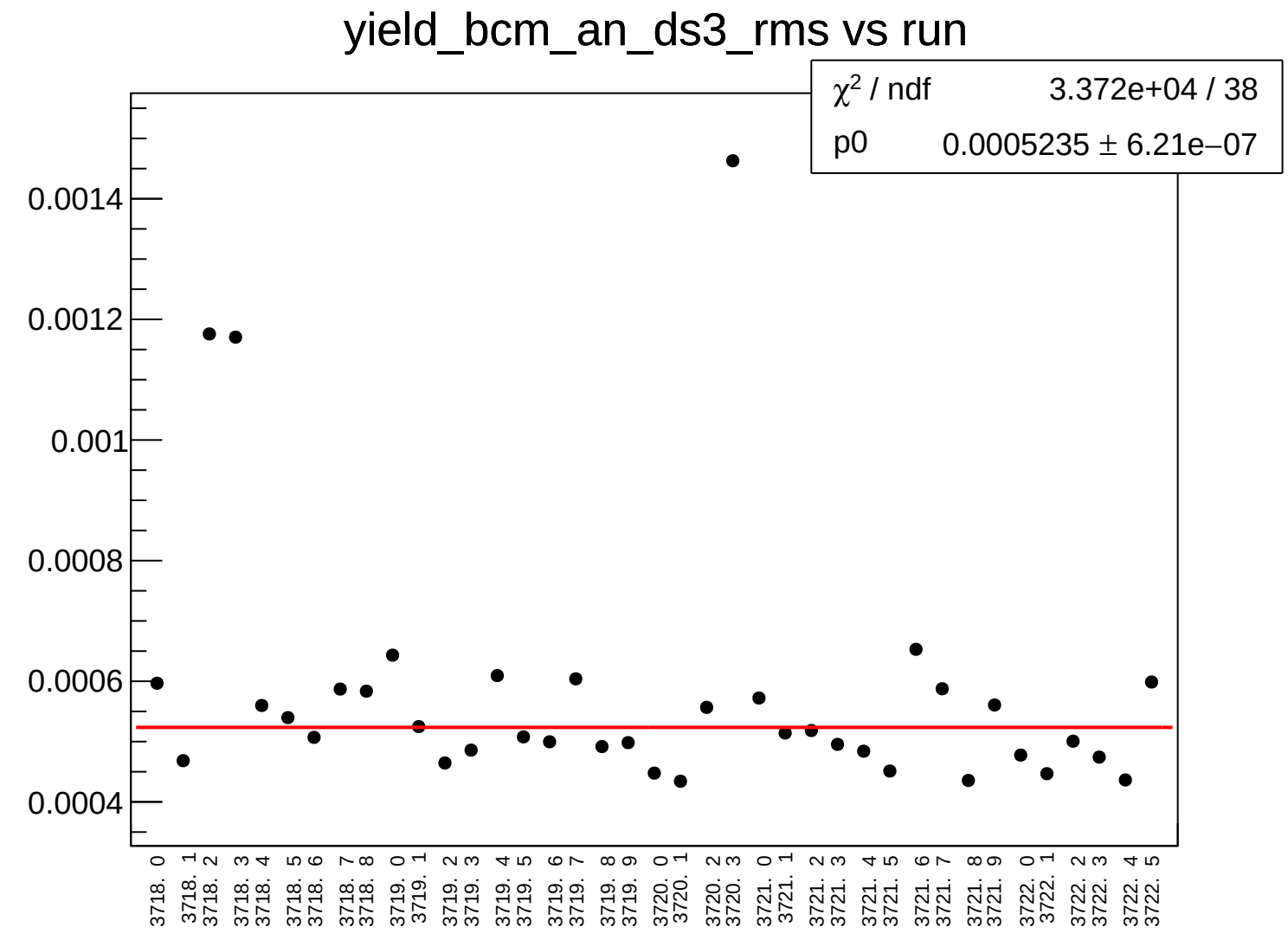

yield_bcm_an_ds_mean vs run
χ² / ndf 5.546e+05 / 38
p0 0.6749 ± 2.949e−06
0.679
0.678
0.677
0.676
0.675
0.674
0.673
0.672
0.671
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 945.9
Std Dev 924.9
200
150
100
50
0
−50
−100
−150
−200

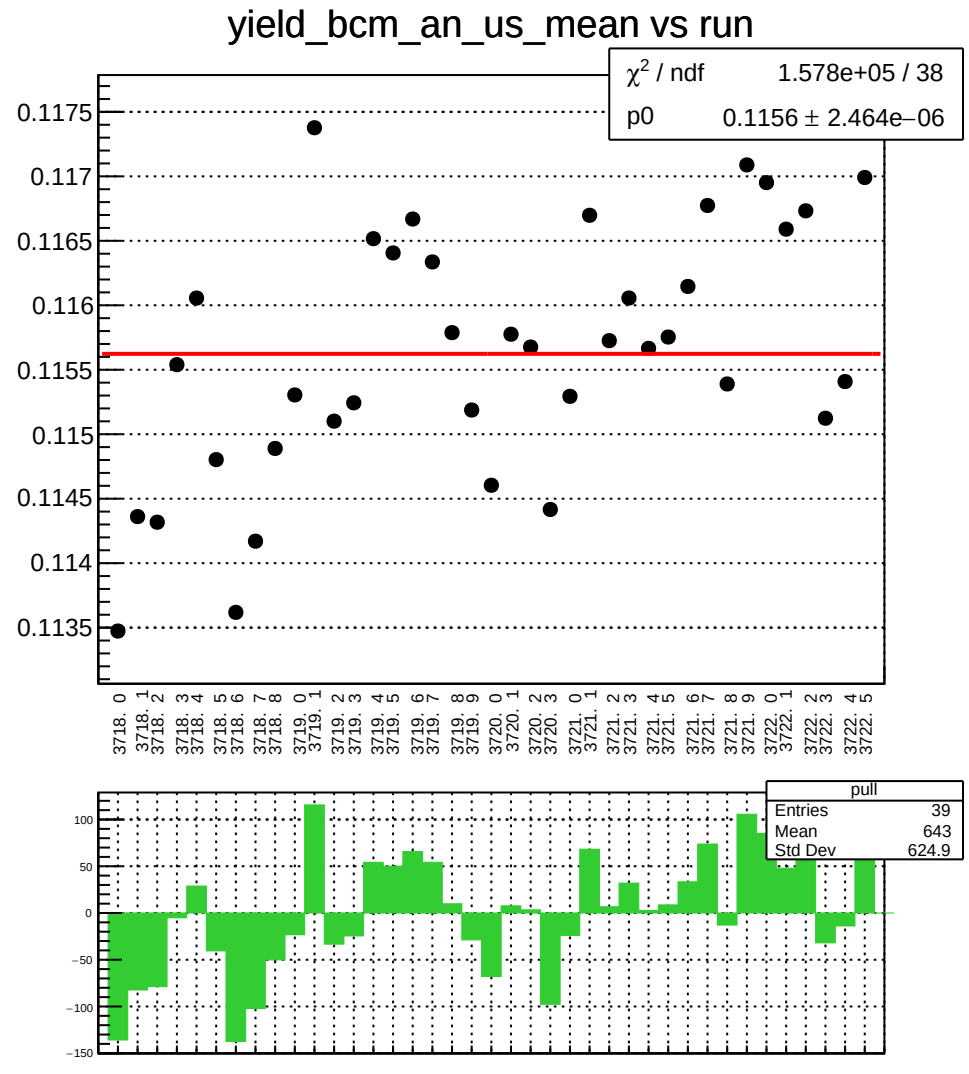

pull1D
Entries 39
Mean 0.7252
Std Dev 4.612
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

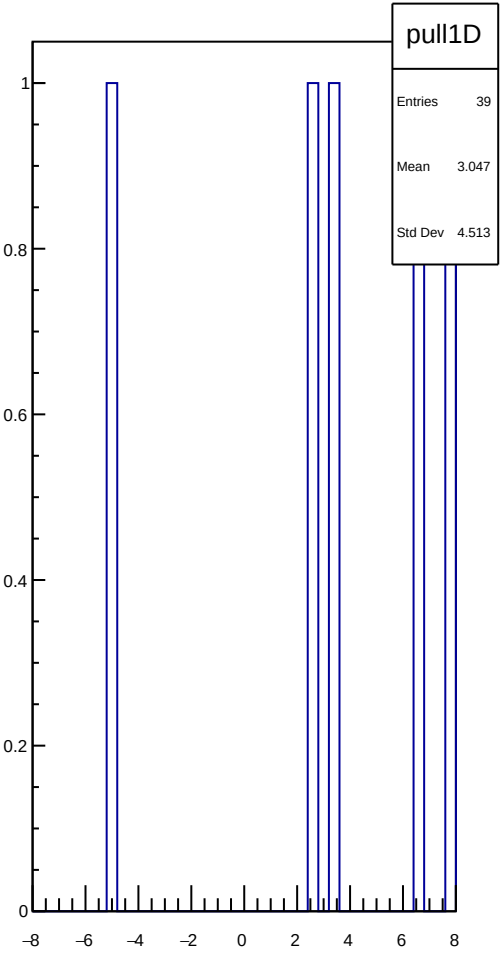

yield_bcm_an_ds_rms vs run
χ² / ndf 7297 / 38
p0 0.00179 ± 2.085e–06
0.0024
0.0022
0.002
0.0018
0.0016
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

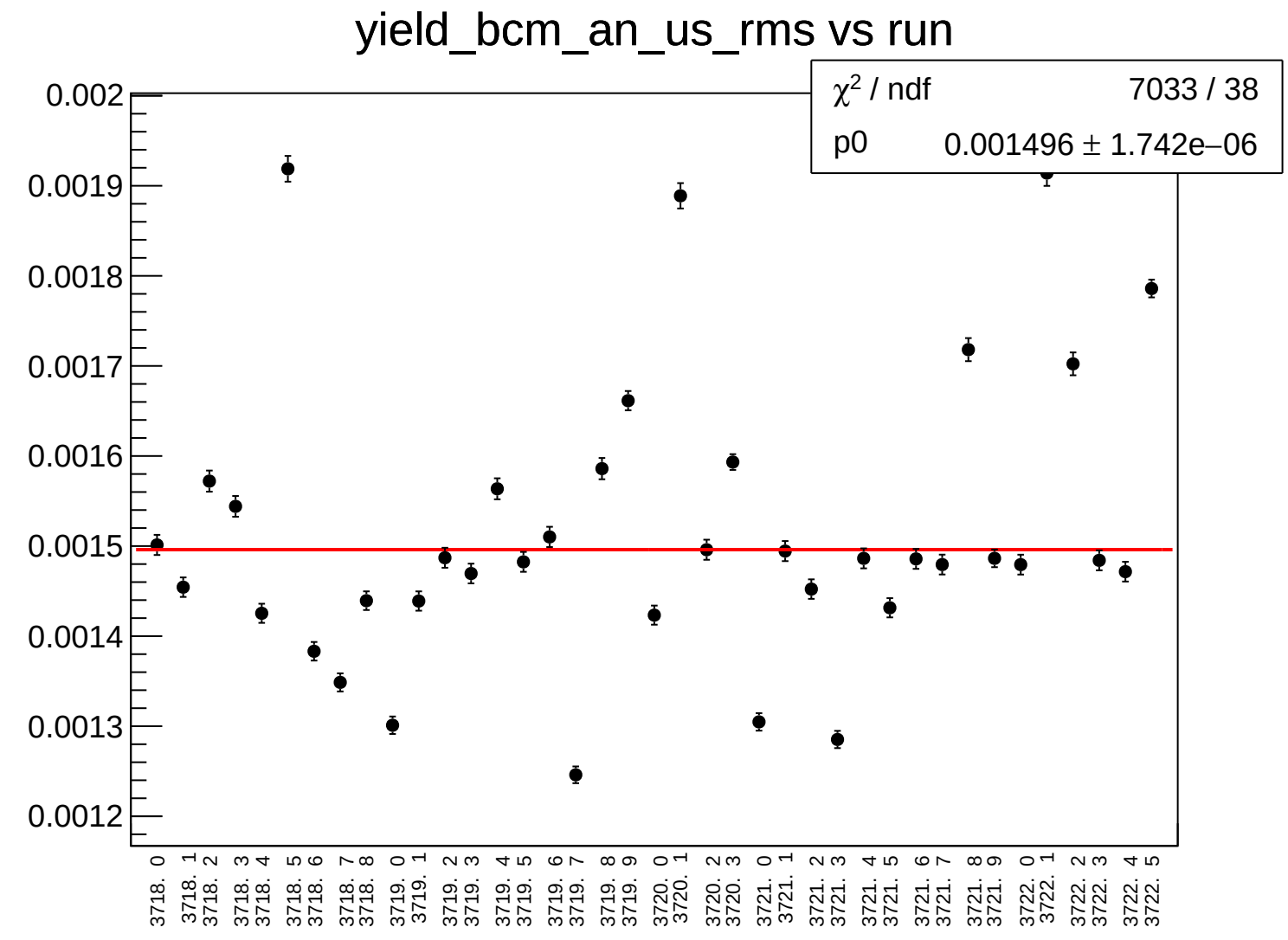

yield_bcm_an_ds3_mean vs run
χ² / ndf 1.247e+06 / 38
p0 1.293 ± 8.782e−07
1.2945
1.294
1.2935
1.293
1.2925
1.292
1.2915
1.291
1.2905
1.29
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −167.2
Std Dev 185.4
300
200
100
0
−100
−200
−300
−400

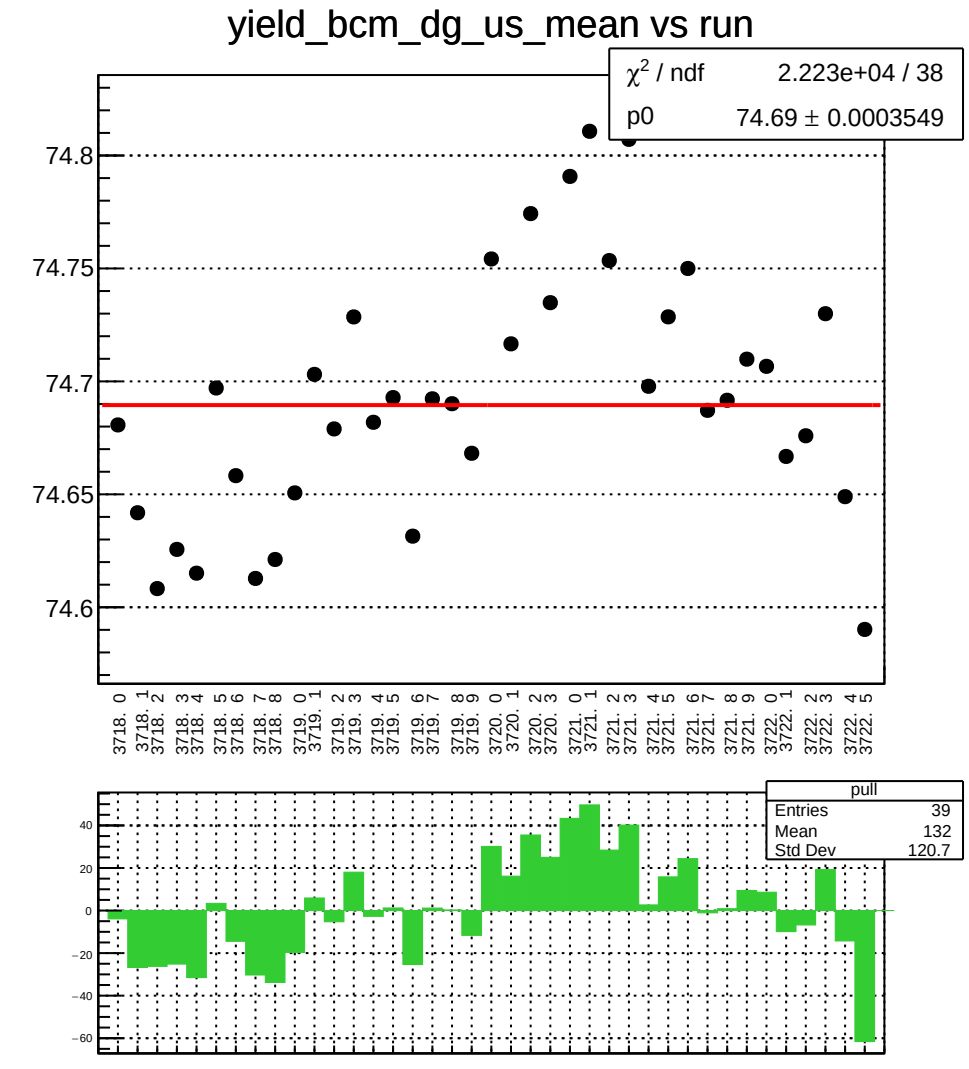

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

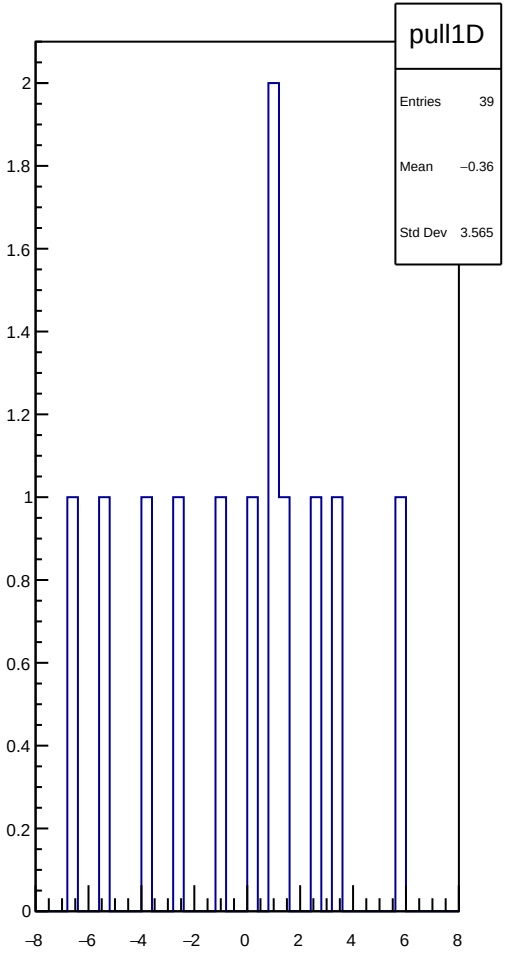

yield_bcm_an_ds3_rms vs run
χ² / ndf 3.372e+04 / 38
p0 0.0005235 ± 6.21e−07
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

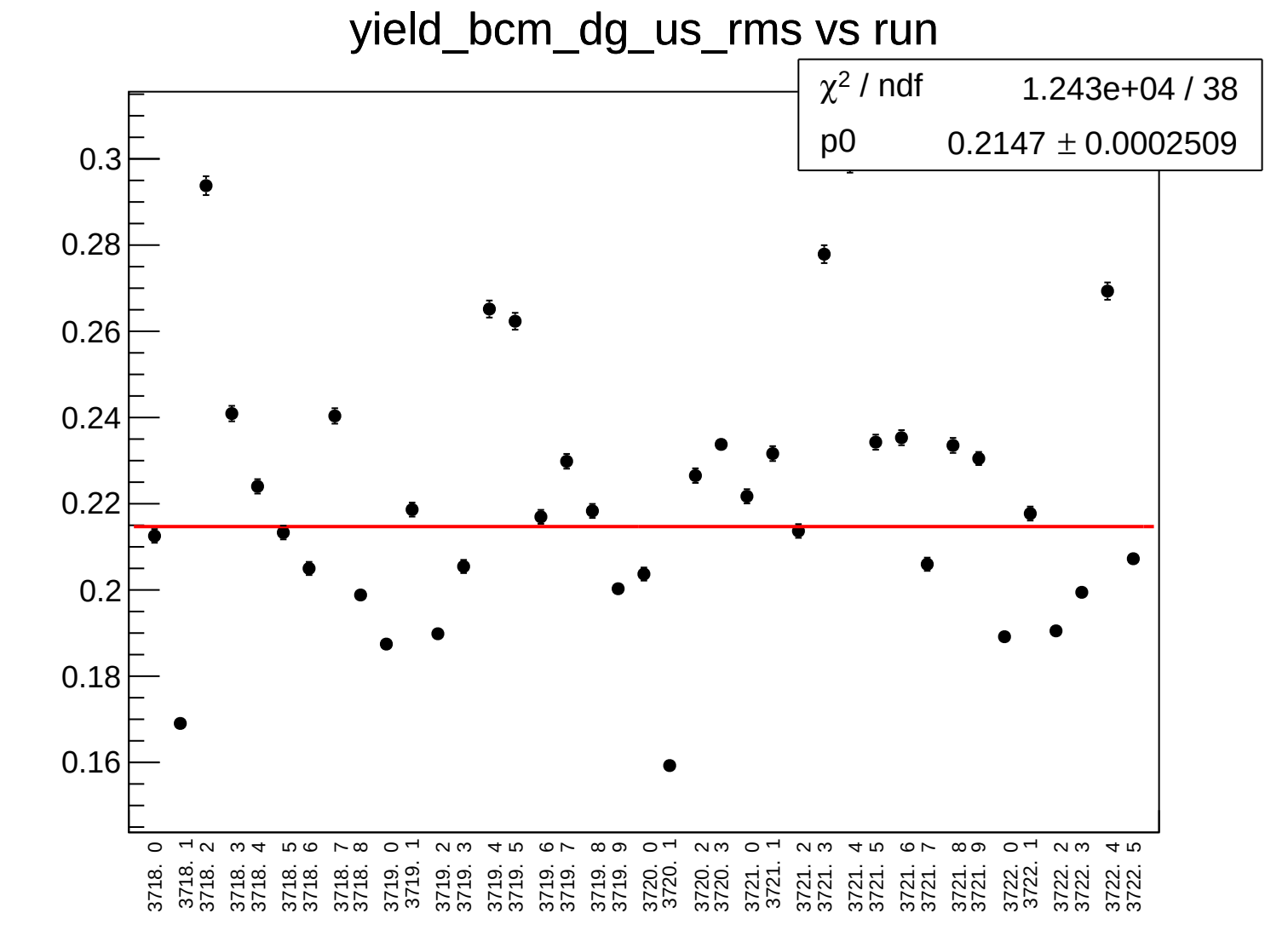

yield_bcm_an_us_mean vs run
χ² / ndf 1.578e+05 / 38
p0 0.1156 ± 2.464e−06
0.1175
0.117
0.1165
0.116
0.1155
0.115
0.1145
0.114
0.1135
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 643
Std Dev 624.9
100
50
0
−50
−100
−150

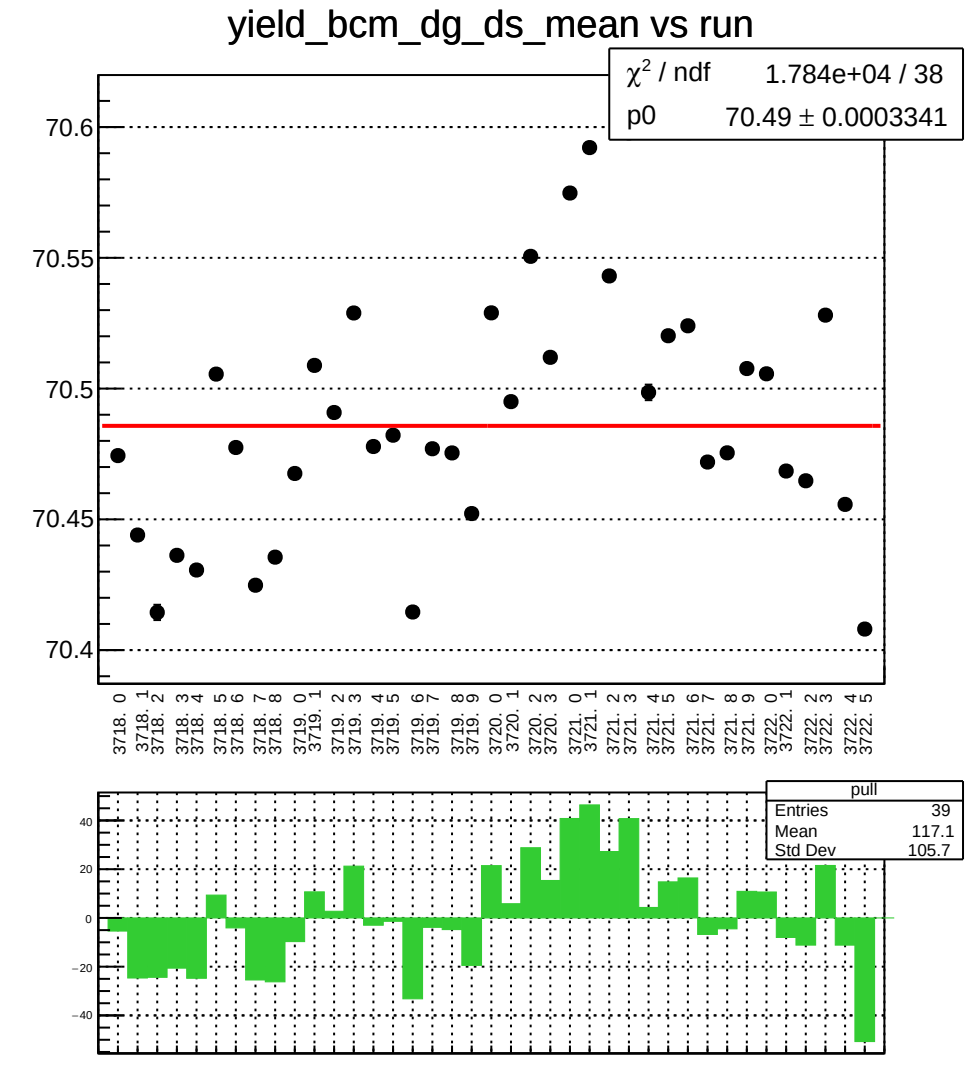

pull1D
Entries 39
Mean 3.047
Std Dev 4.513
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

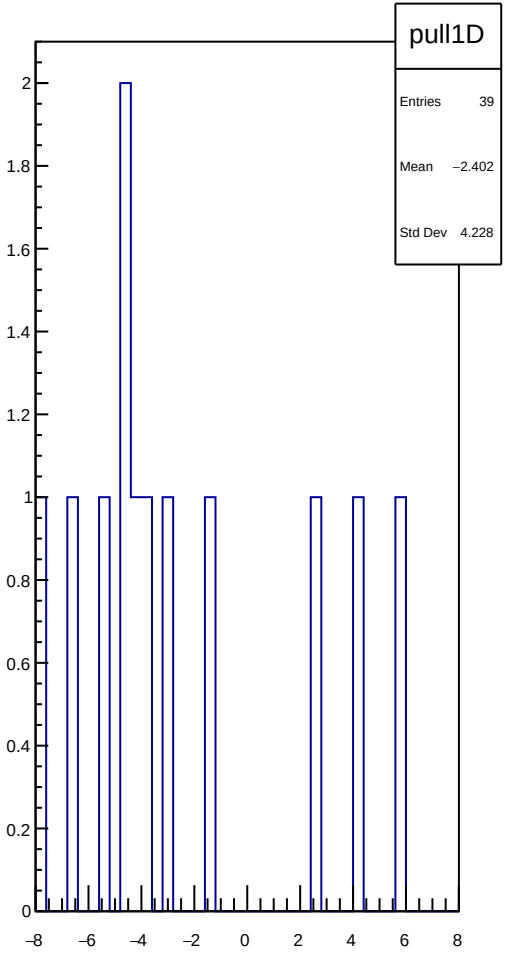

yield_bcm_an_us_rms vs run
χ² / ndf 7033 / 38
p0 0.001496 ± 1.742e−06
0.002
0.0019
0.0018
0.0017
0.0016
0.0015
0.0014
0.0013
0.0012
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

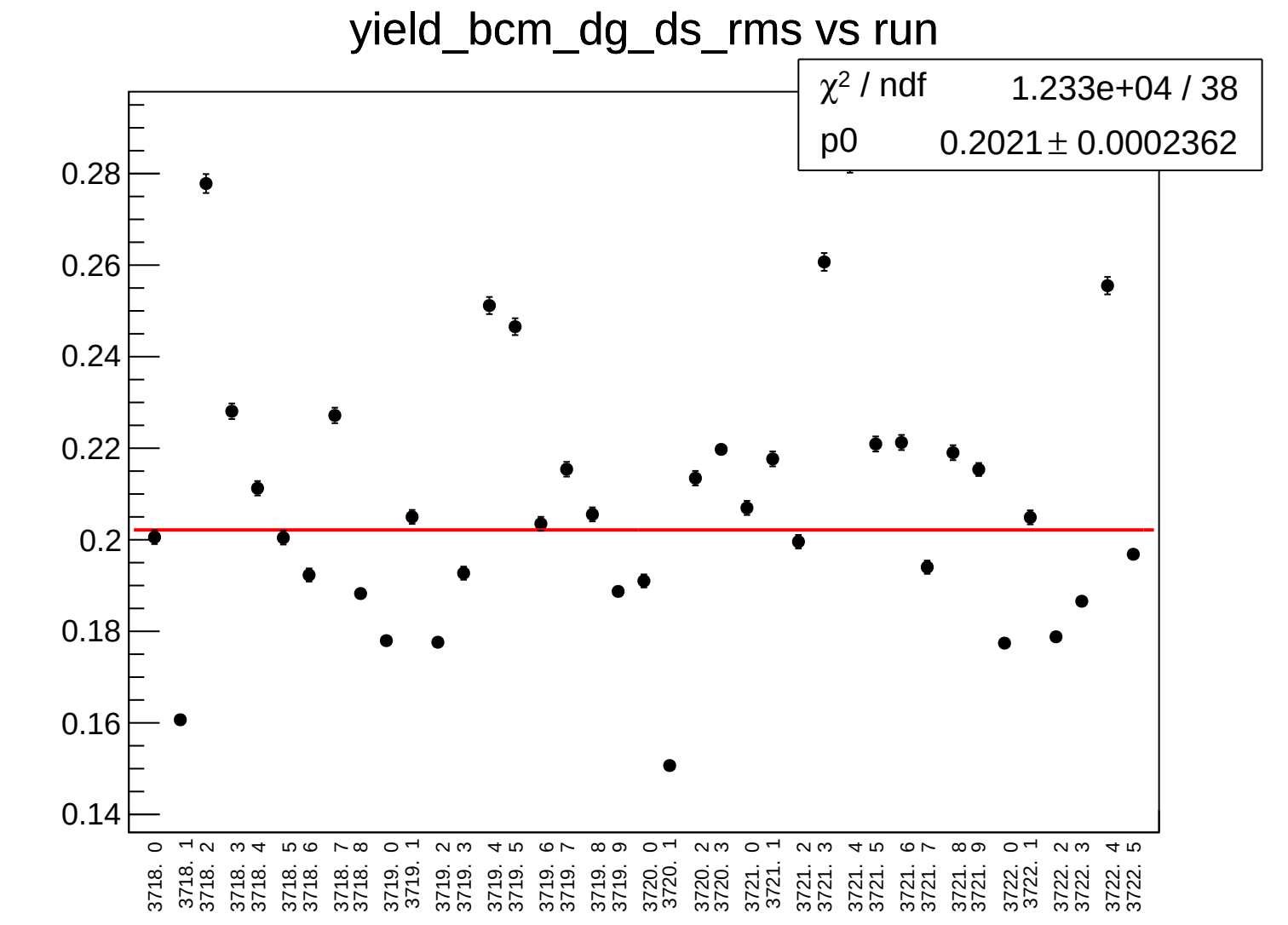

yield_bcm_dg_us_mean vs run
χ² / ndf 2.223e+04 / 38
p0 74.69 ± 0.0003549
74.8
74.75
74.7
74.65
74.6
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 132
Std Dev 120.7
40
20
0
−20
−40
−60

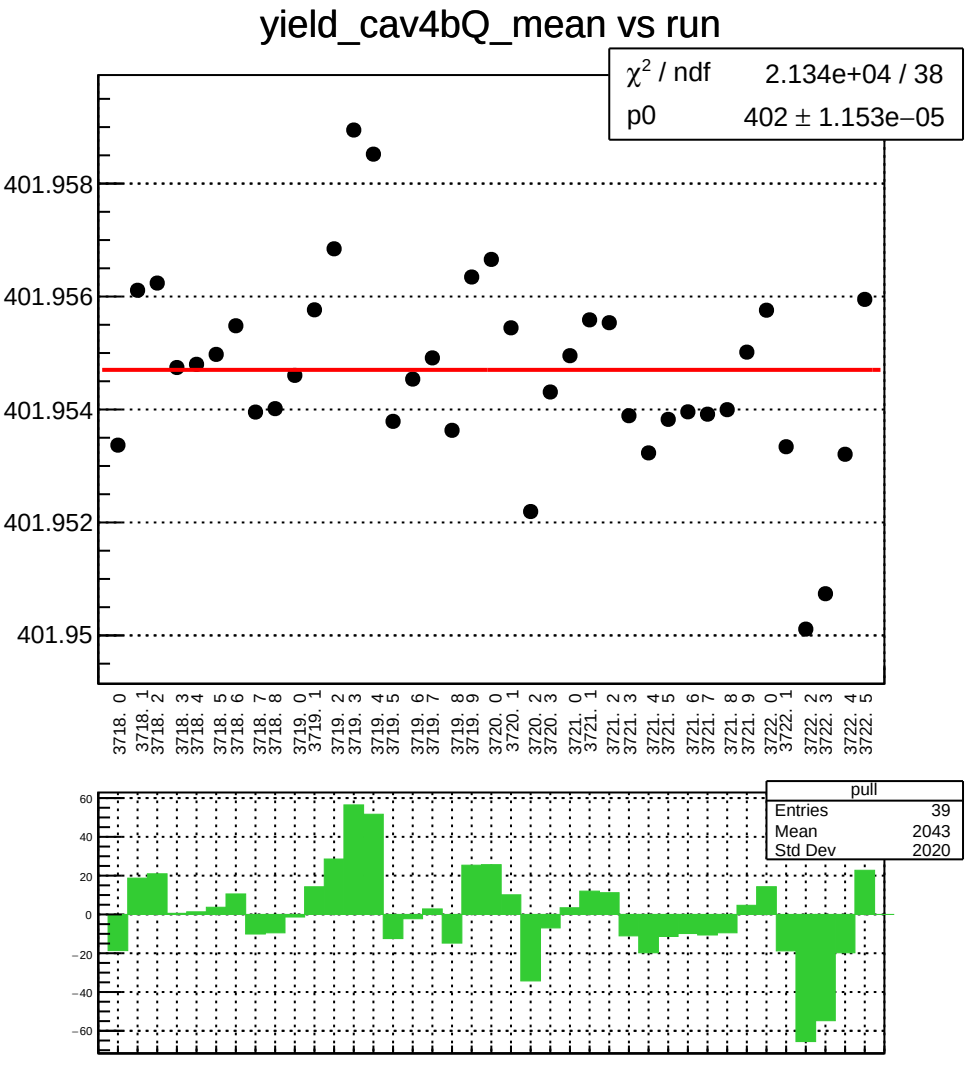

pull1D
Entries 39
Mean −0.36
Std Dev 3.565
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

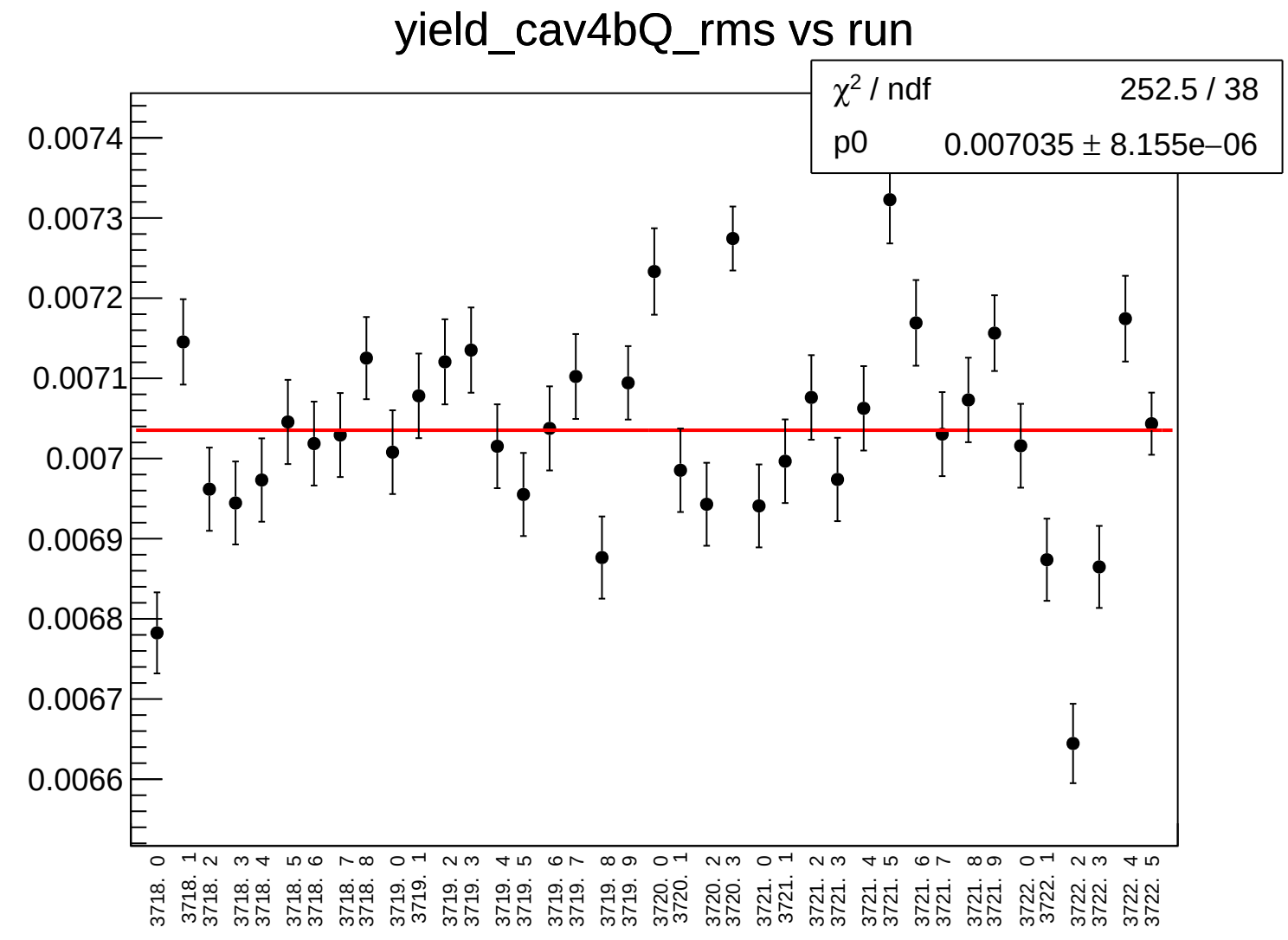

yield_bcm_dg_us_rms vs run
χ² / ndf 1.243e+04 / 38
p0 0.2147 ± 0.0002509
0.3
0.28
0.26
0.24
0.22
0.2
0.18
0.16
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

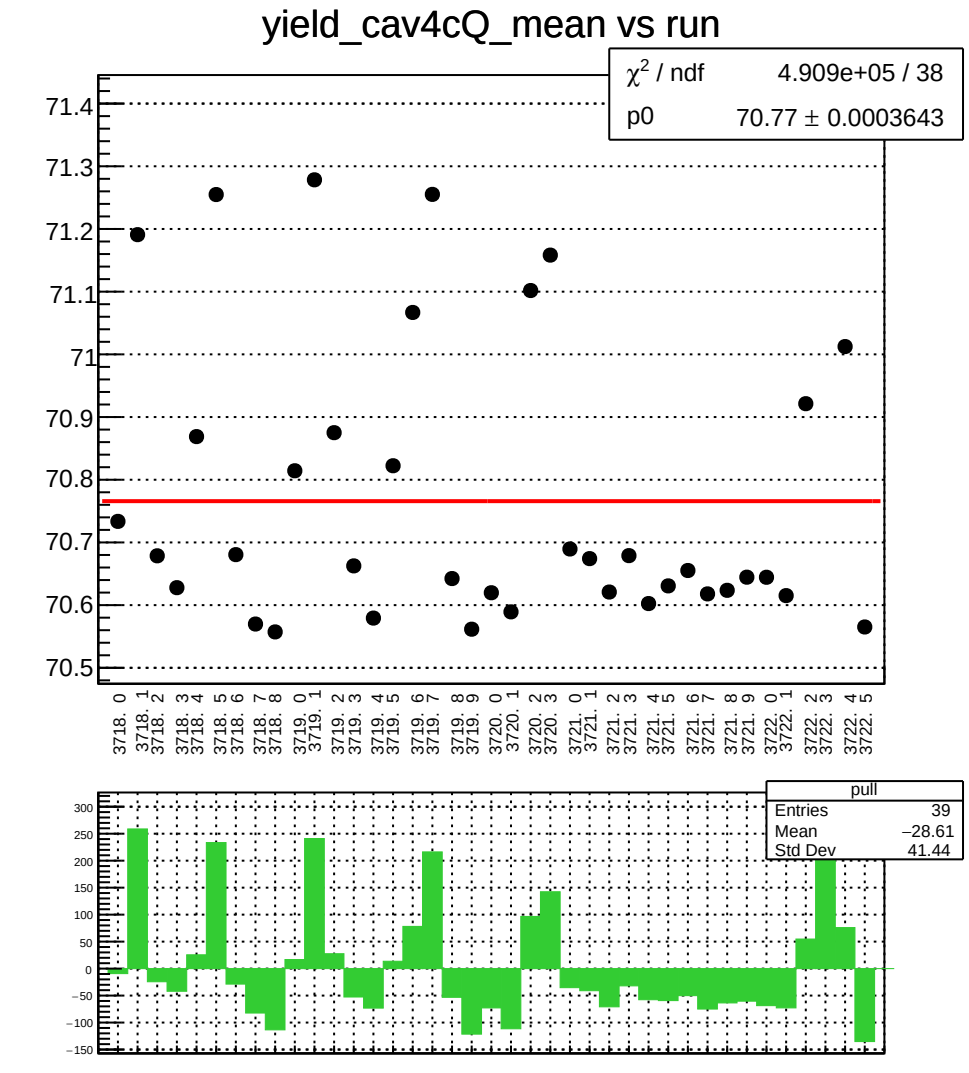

yield_bcm_dg_ds_mean vs run
χ² / ndf 1.784e+04 / 38
p0 70.49 ± 0.0003341
70.6
70.55
70.5
70.45
70.4
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 117.1
Std Dev 105.7
40
20
0
−20
−40

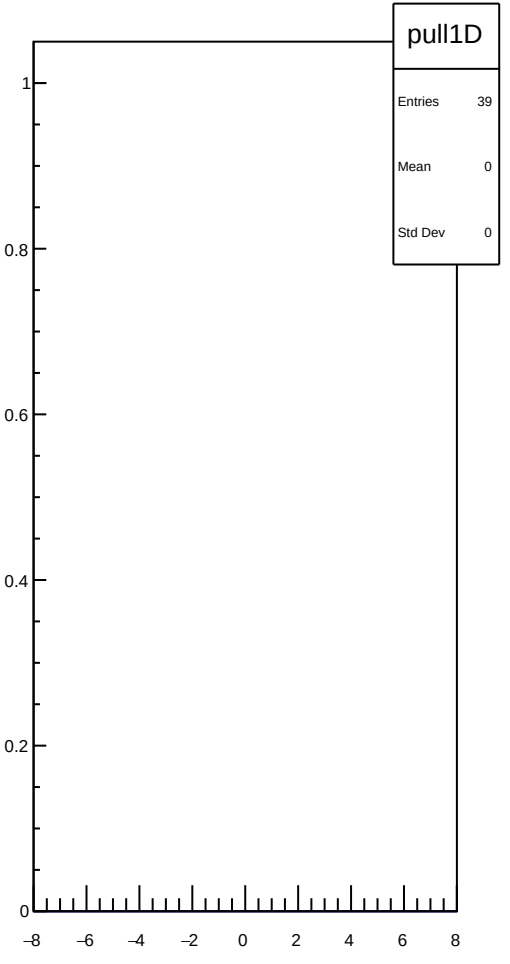

pull1D
Entries 39
Mean −2.402
Std Dev 4.228
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

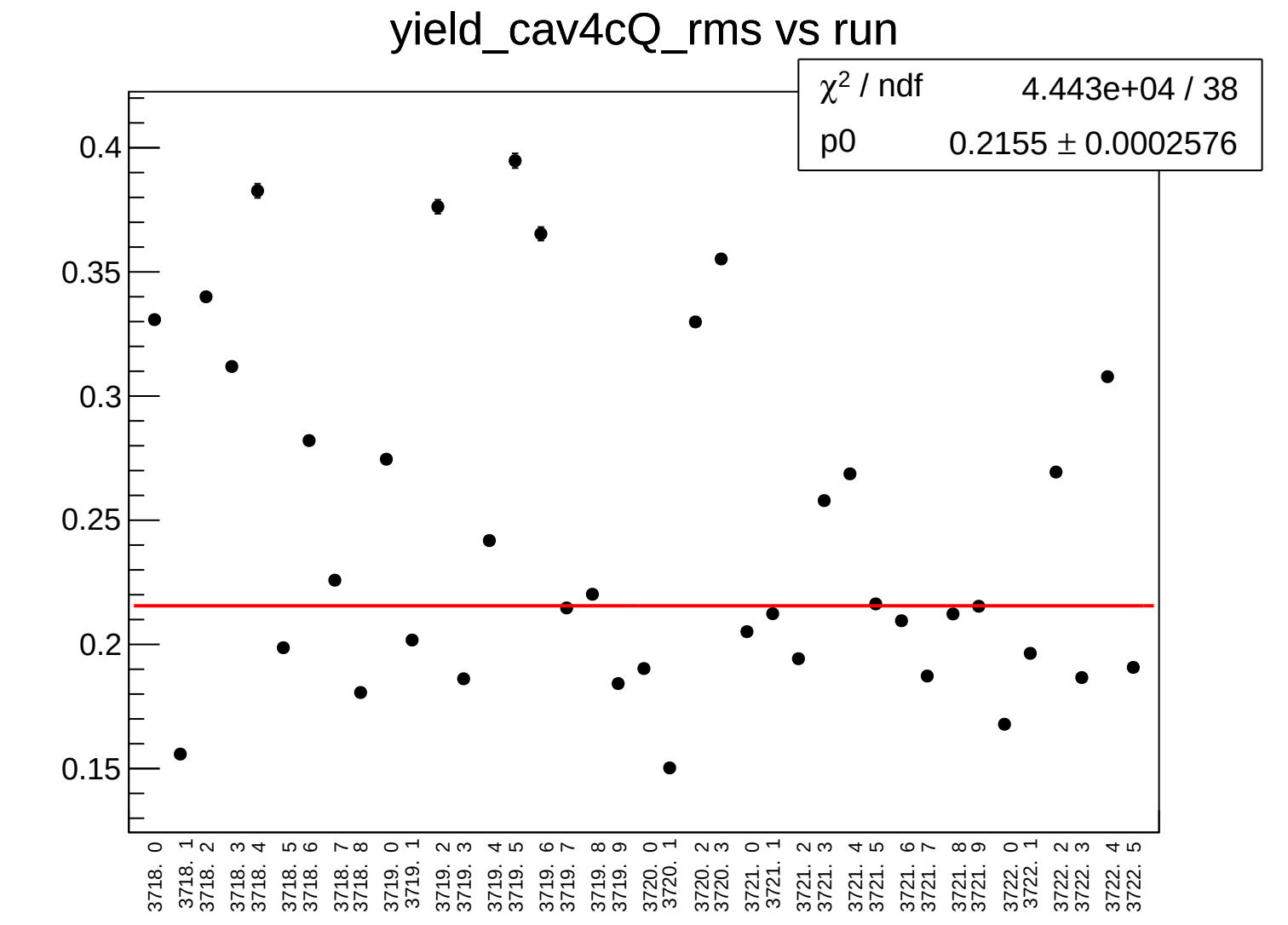

yield_bcm_dg_ds_rms vs run
χ² / ndf 1.233e+04 / 38
p0 0.2021 ± 0.0002362
0.28
0.26
0.24
0.22
0.2
0.18
0.16
0.14
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

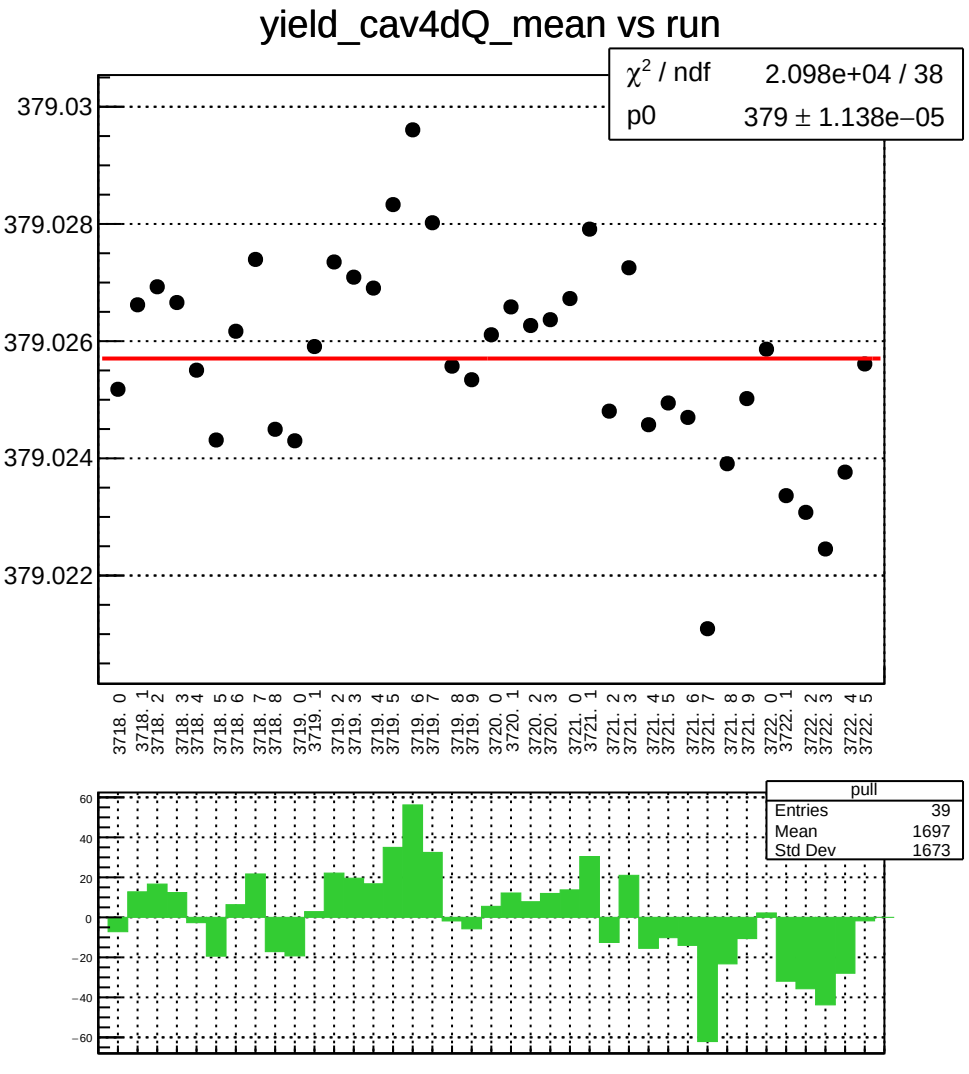

yield_cav4bQ_mean vs run
χ² / ndf 2.134e+04 / 38
p0 402 ± 1.153e−05
401.958
401.956
401.954
401.952
401.95
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 2043
Std Dev 2020
60
40
20
0
−20
−40
−60
pull1D
Entries 39
Mean 0.6785
Std Dev 3.468
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

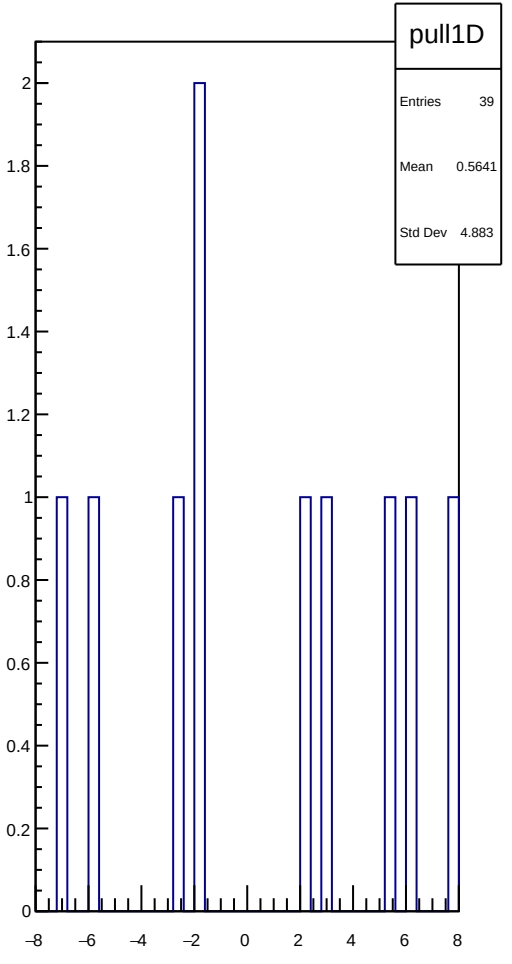

yield_cav4bQ_rms vs run
χ² / ndf 252.5 / 38
p0 0.007035 ± 8.155e−06
0.0074
0.0073
0.0072
0.0071
0.007
0.0069
0.0068
0.0067
0.0066
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

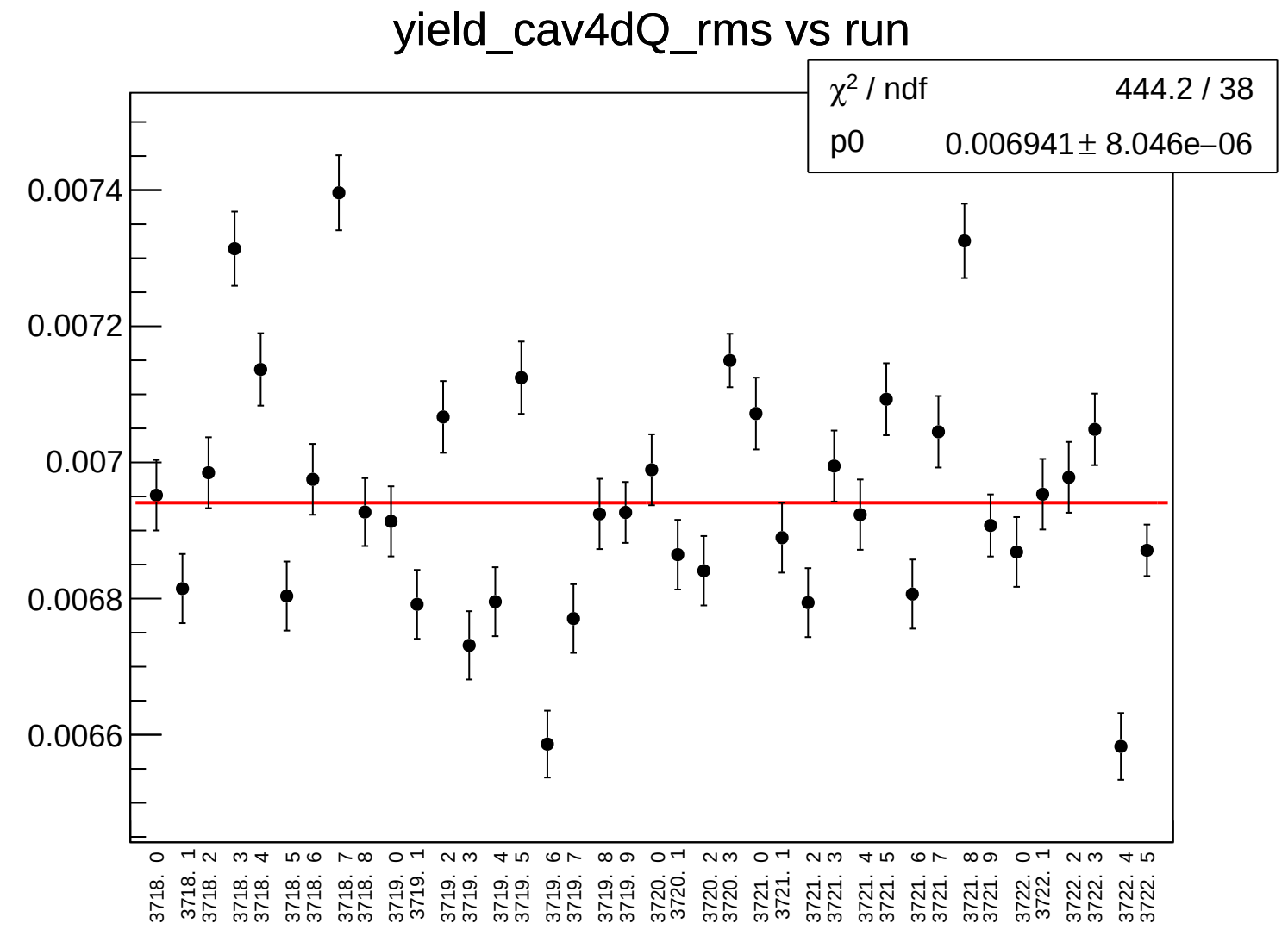

yield_cav4cQ_mean vs run
χ² / ndf 4.909e+05 / 38
p0 70.77 ± 0.0003643
71.4
71.3
71.2
71.1
71
70.9
70.8
70.7
70.6
70.5
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −28.61
Std Dev 41.44
300
250
200
150
100
50
0
−50
−100
−150

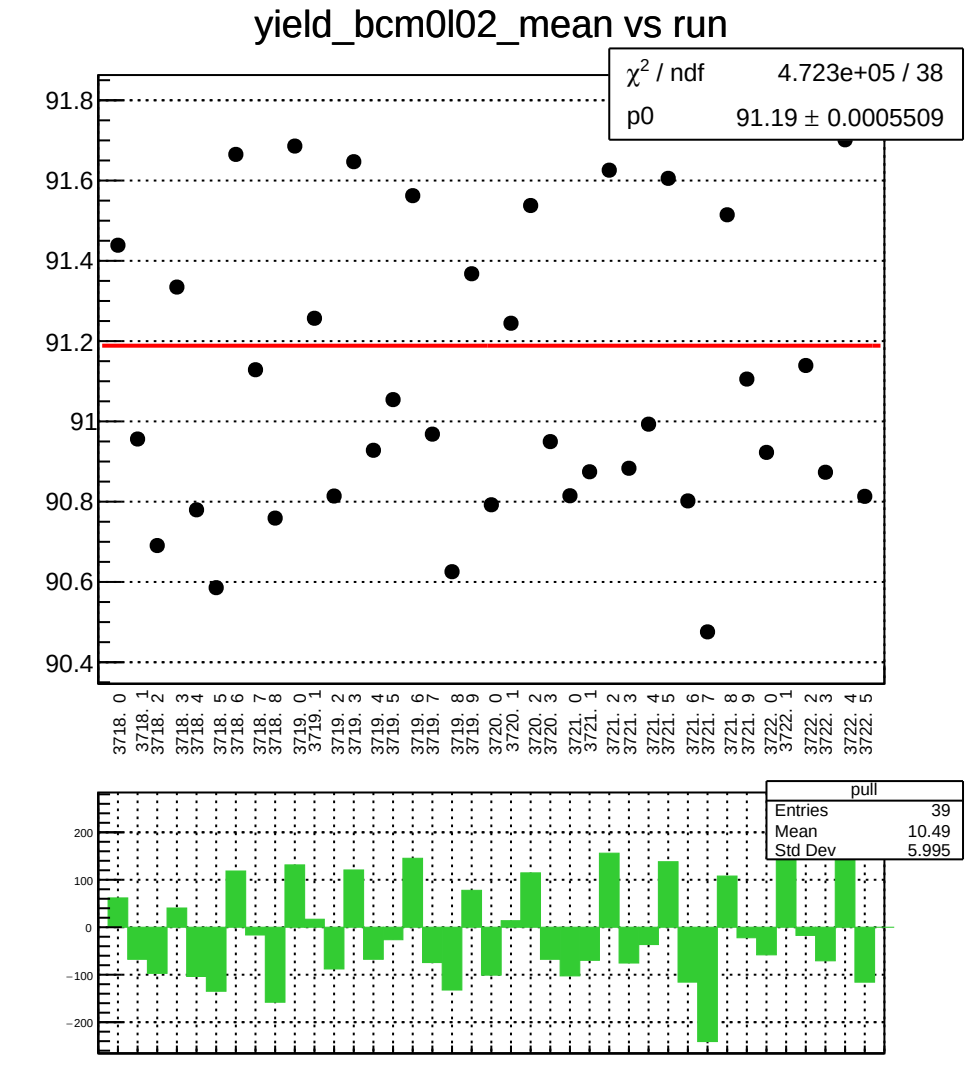

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

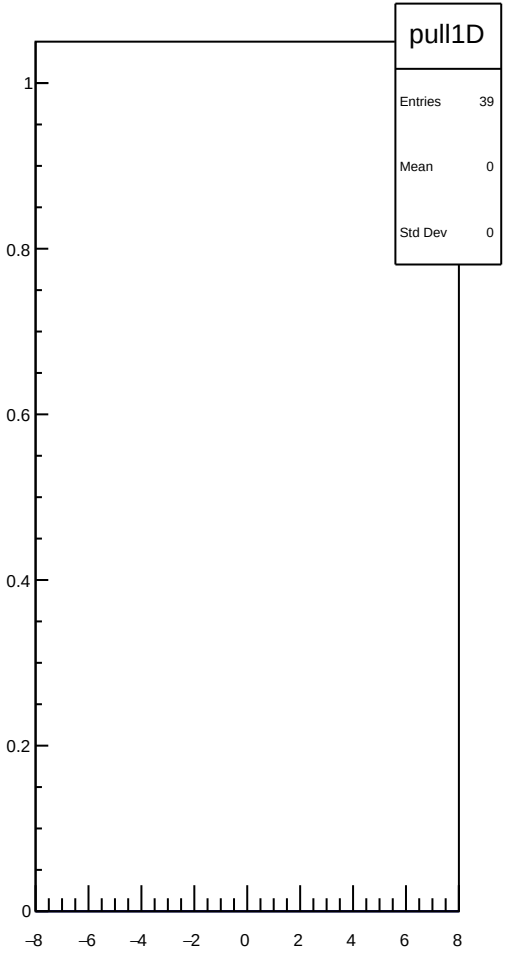

yield_cav4cQ_rms vs run
χ² / ndf 4.443e+04 / 38
p0 0.2155 ± 0.0002576
0.4
0.35
0.3
0.25
0.2
0.15
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

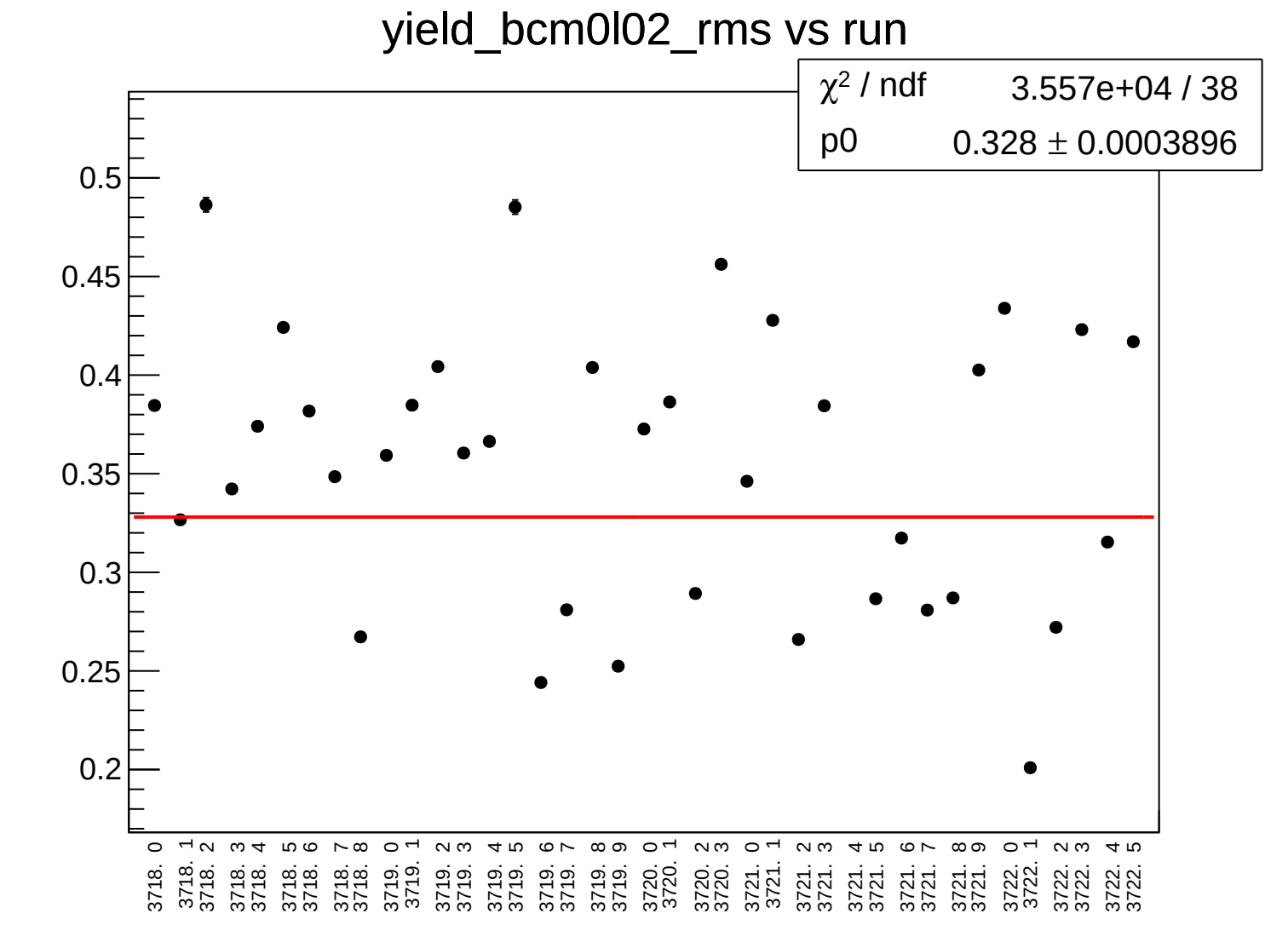

yield_cav4dQ_mean vs run
χ² / ndf 2.098e+04 / 38
p0 379 ± 1.138e−05
379.03
379.028
379.026
379.024
379.022
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 1697
Std Dev 1673
60
40
20
0
−20
−40
−60

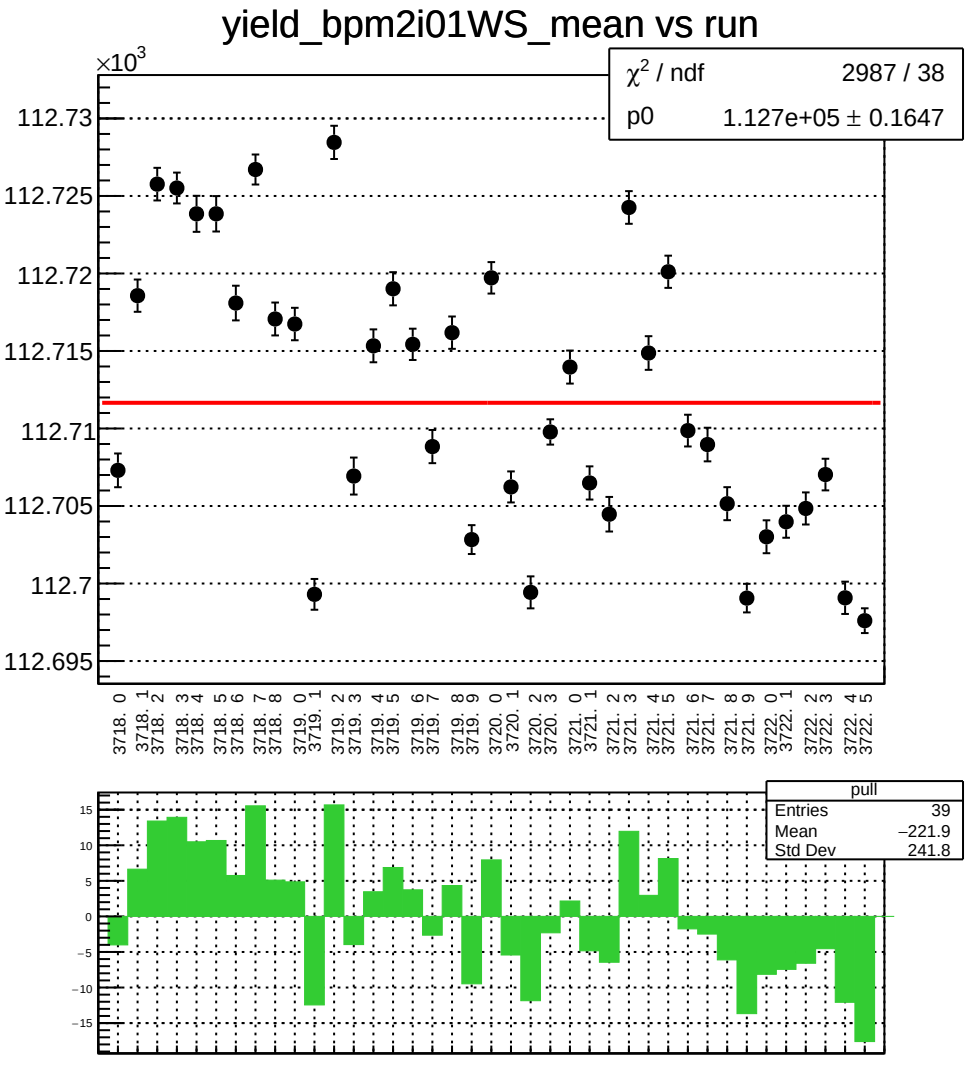

pull1D
Entries 39
Mean 0.5641
Std Dev 4.883
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

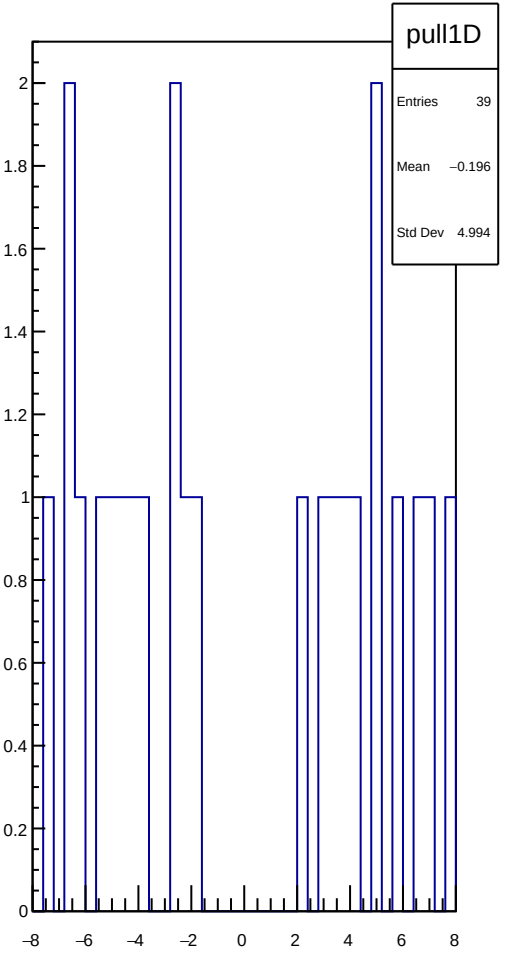

yield_cav4dQ_rms vs run
χ² / ndf 444.2 / 38
p0 0.006941 ± 8.046e−06
0.0074
0.0072
0.007
0.0068
0.0066
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

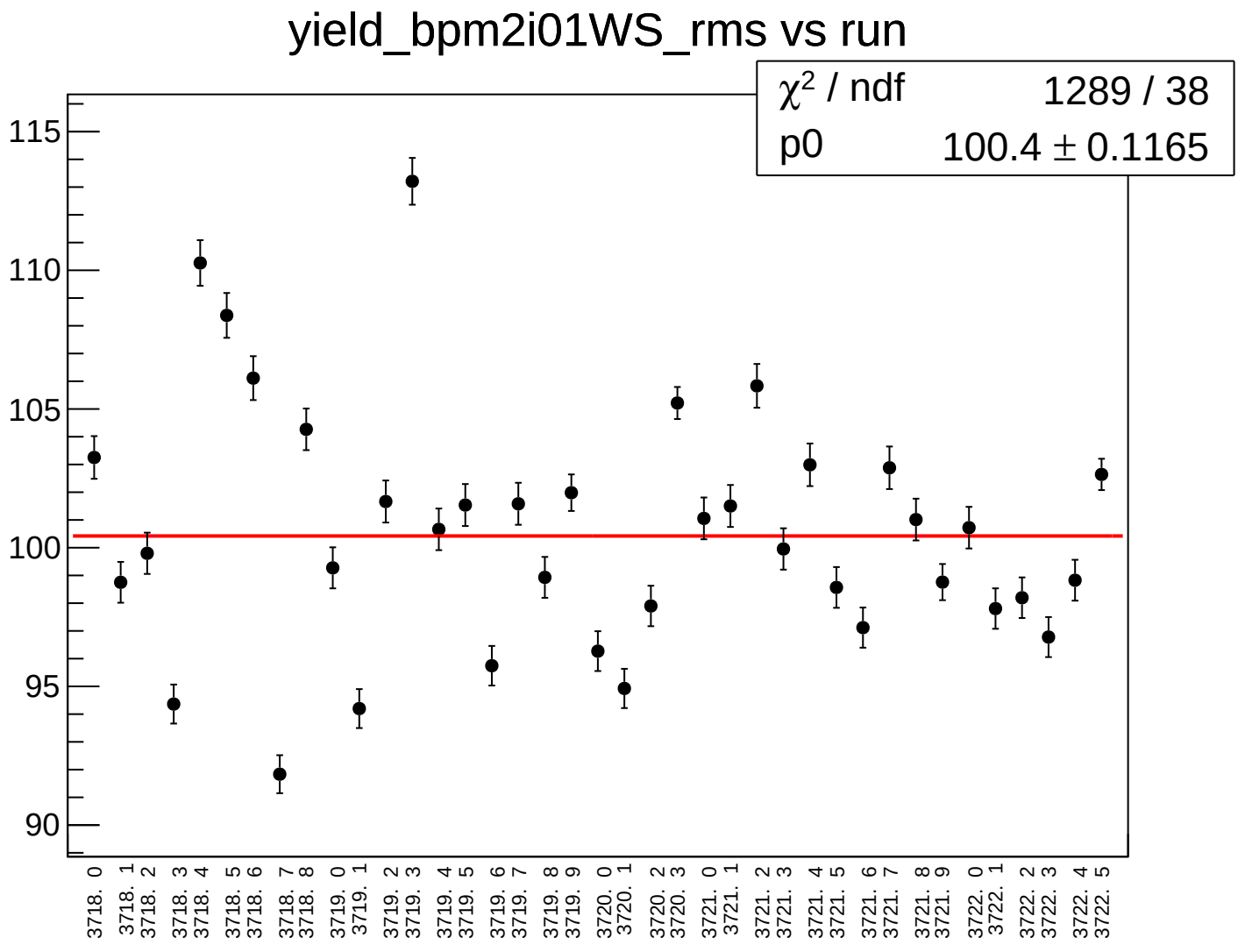

yield_bcm0l02_mean vs run
χ² / ndf 4.723e+05 / 38
p0 91.19 ± 0.0005509
91.8
91.6
91.4
91.2
91
90.8
90.6
90.4
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 10.49
Std Dev 5.995
200
100
0
−100
−200

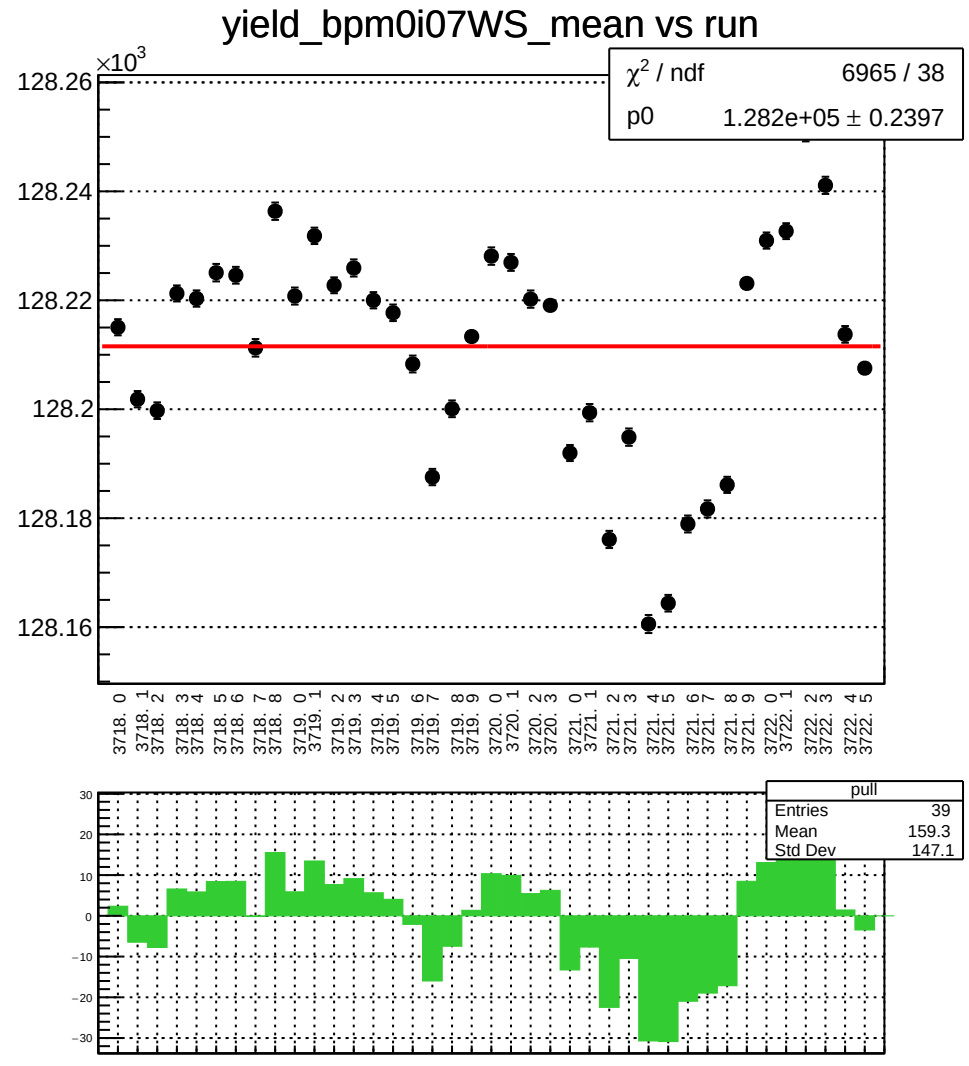

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

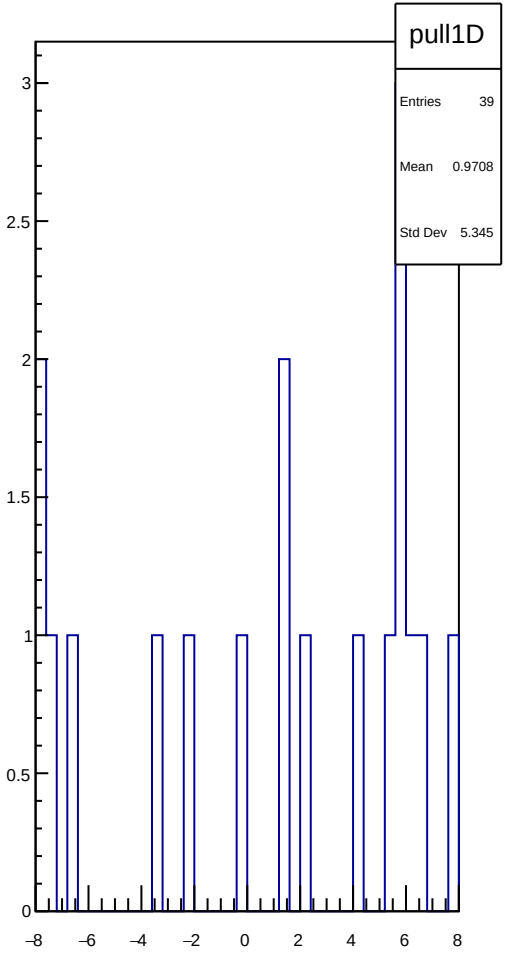

yield_bcm0l02_rms vs run
χ² / ndf 3.557e+04 / 38
p0 0.328 ± 0.0003896
0.5
0.45
0.4
0.35
0.3
0.25
0.2
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

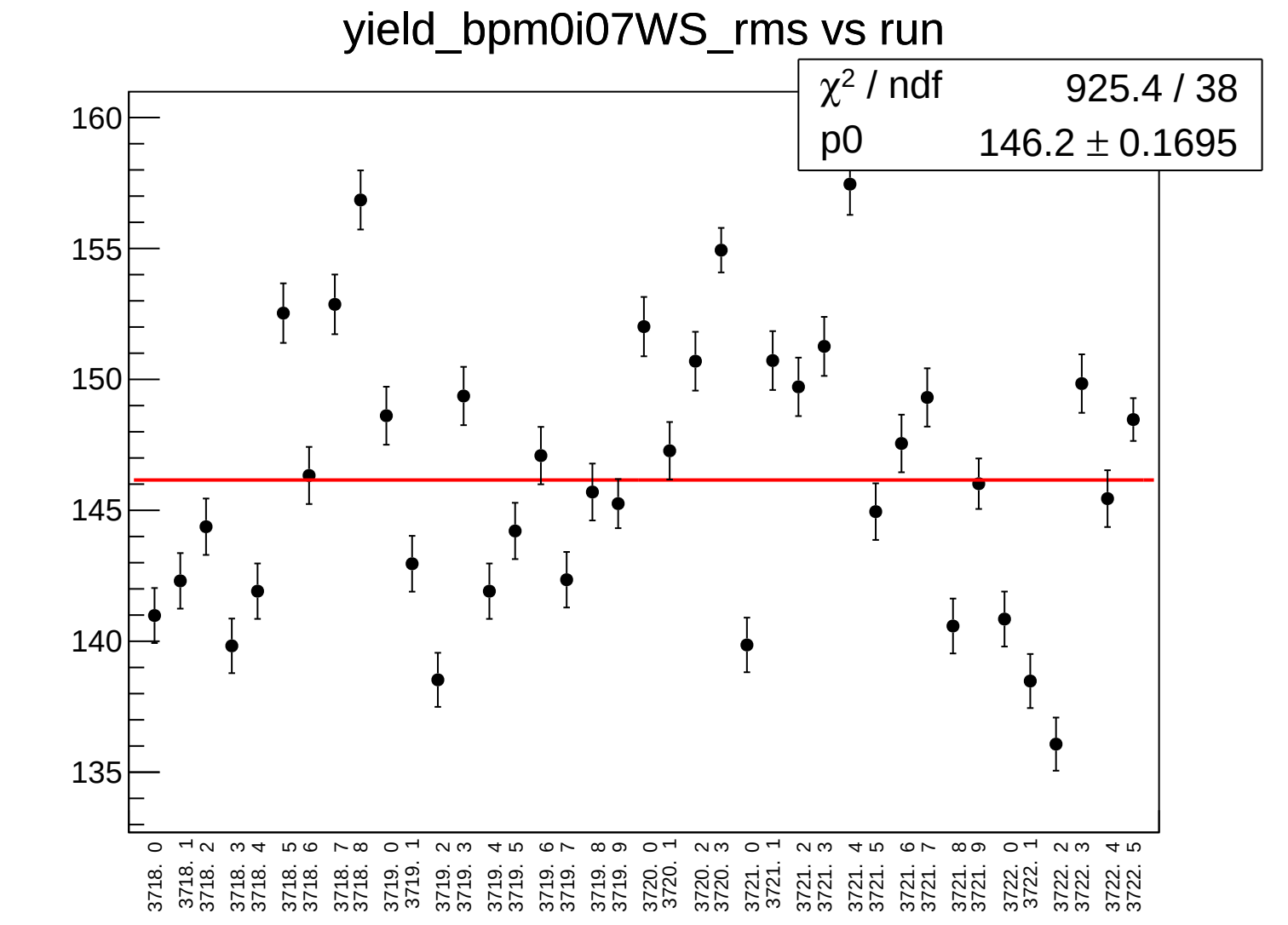

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 2987 / 38
p0 1.127e+05 ± 0.1647
112.73
112.725
112.72
112.715
112.71
112.705
112.7
112.695
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −221.9
Std Dev 241.8
15
10
5
0
−5
−10
−15

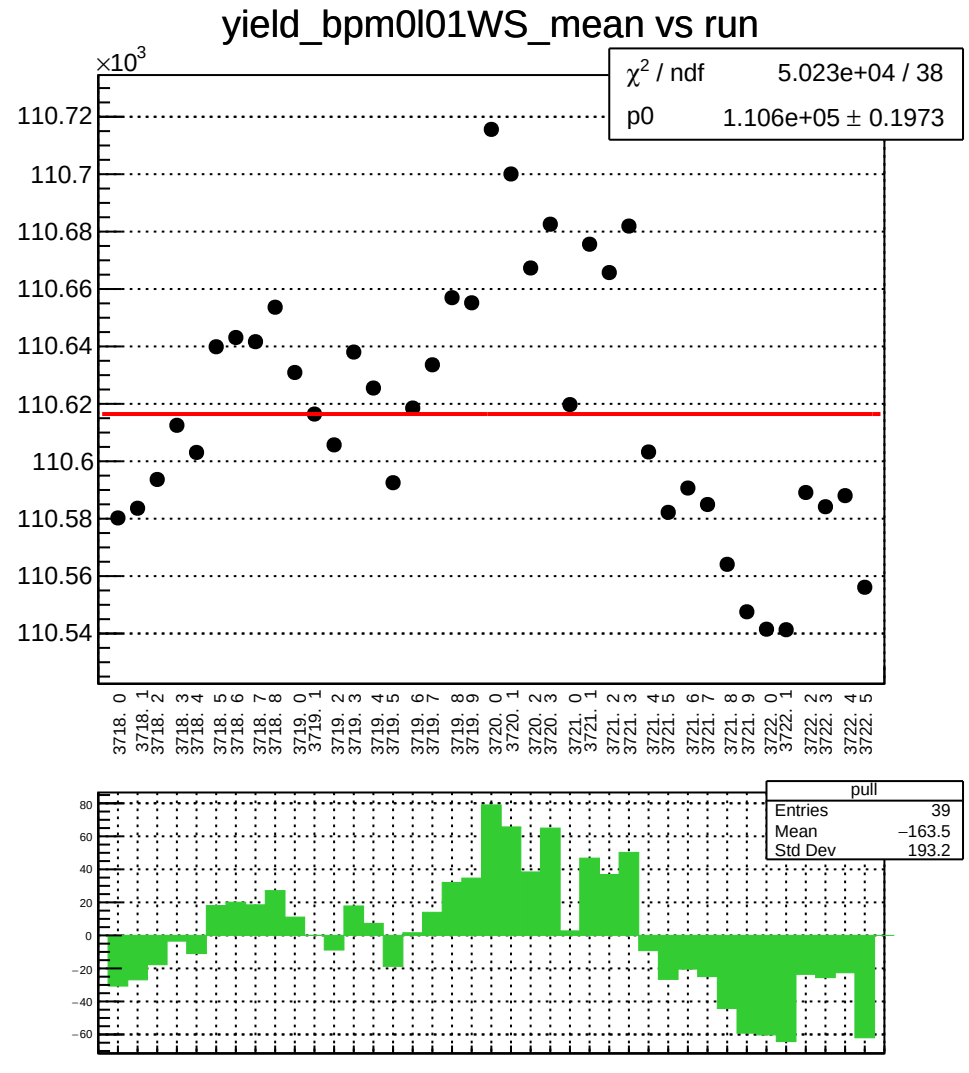

pull1D
Entries 39
Mean −0.196
Std Dev 4.994
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

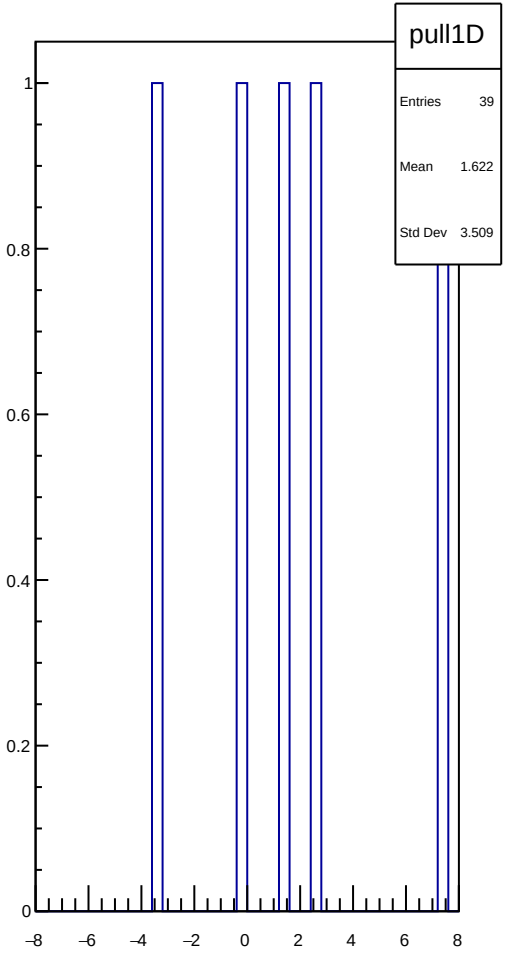

yield_bpm2i01WS_rms vs run
χ² / ndf 1289 / 38
p0 100.4 ± 0.1165
115
110
105
100
95
90
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

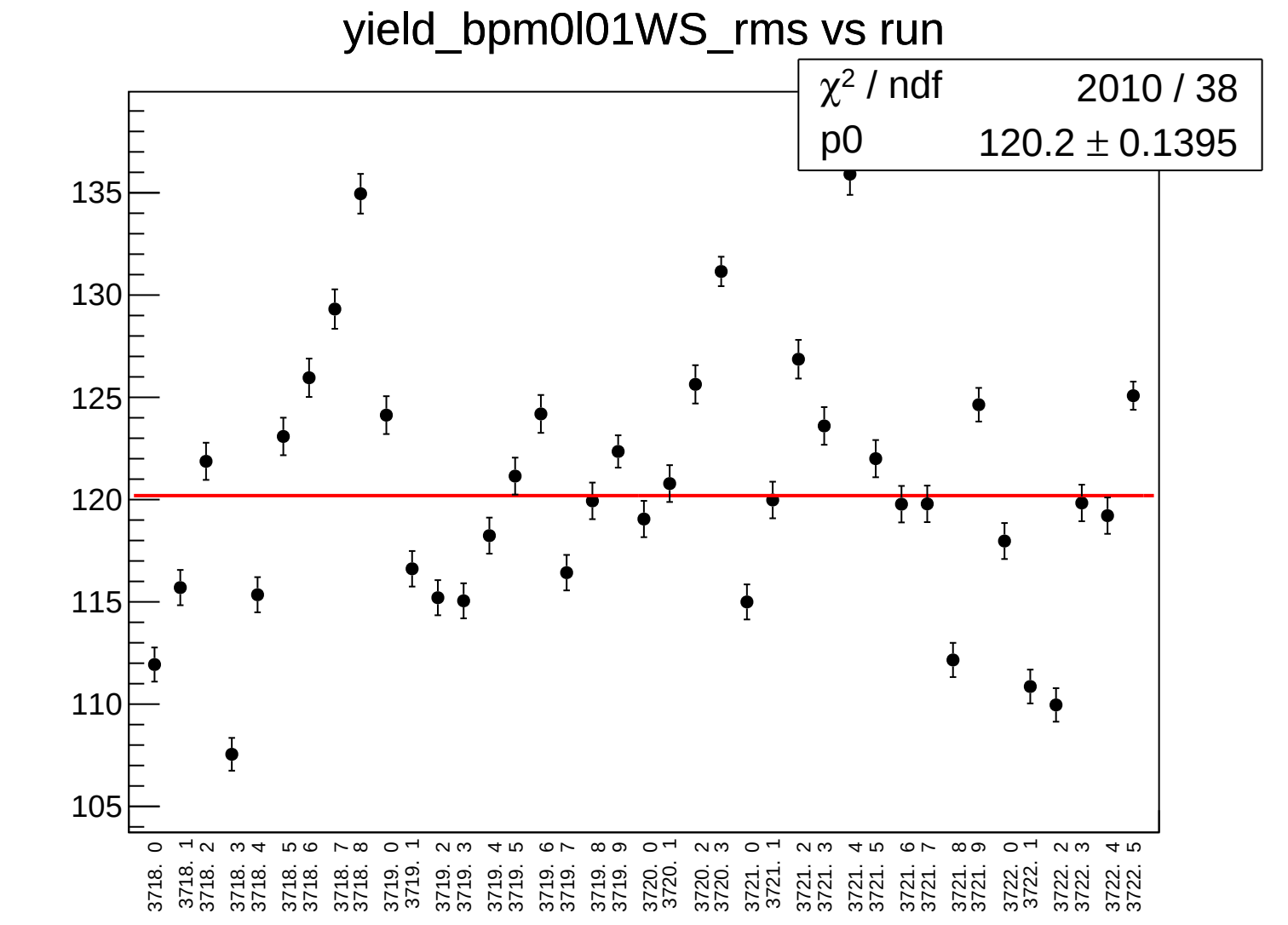

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 6965 / 38
p0 1.282e+05 ± 0.2397
128.26
128.24
128.22
128.2
128.18
128.16
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 159.3
Std Dev 147.1
30
20
10
0
−10
−20
−30

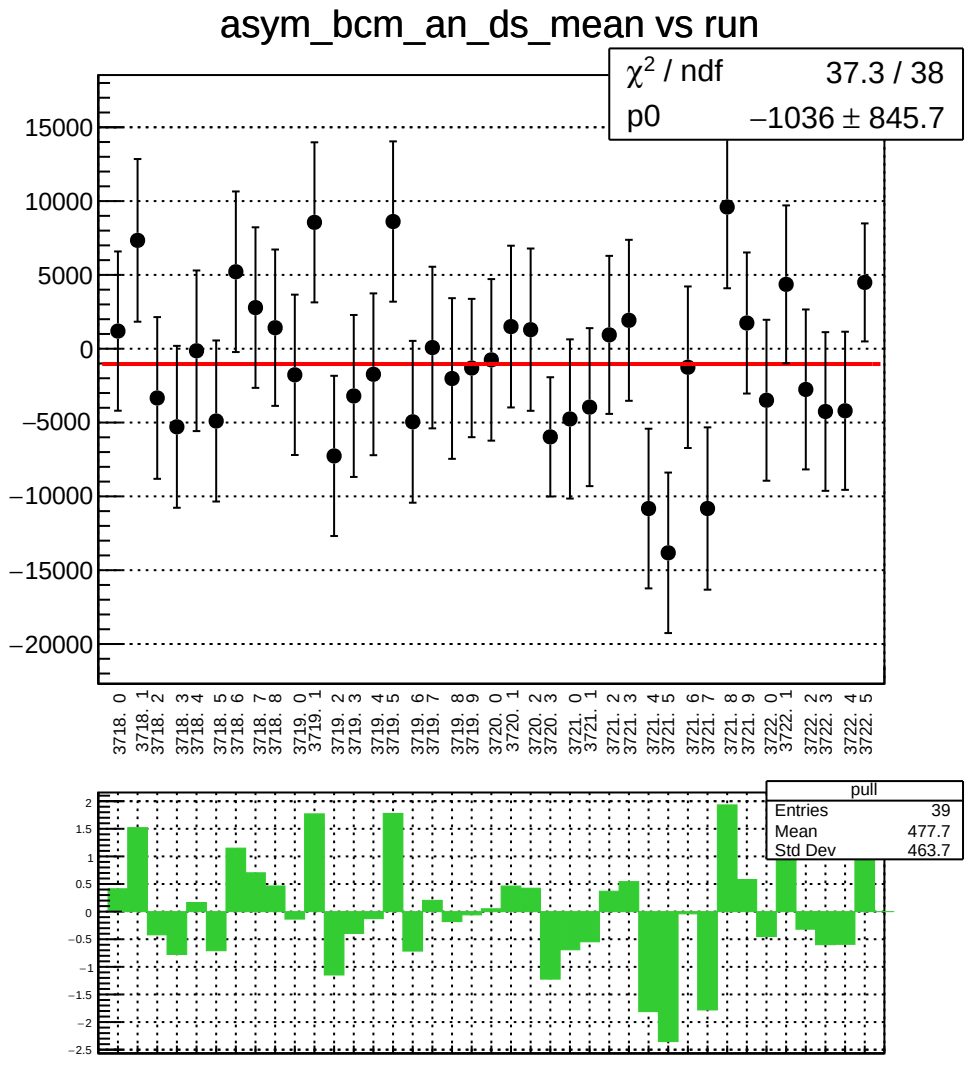

pull1D
Entries 39
Mean 0.9708
Std Dev 5.345
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

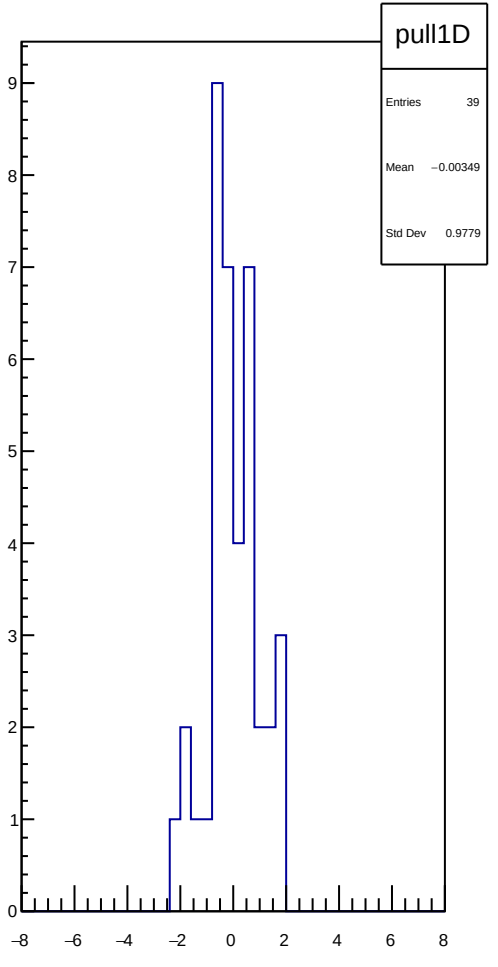

yield_bpm0i07WS_rms vs run
χ² / ndf 925.4 / 38
p0 146.2 ± 0.1695
160
155
150
145
140
135
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

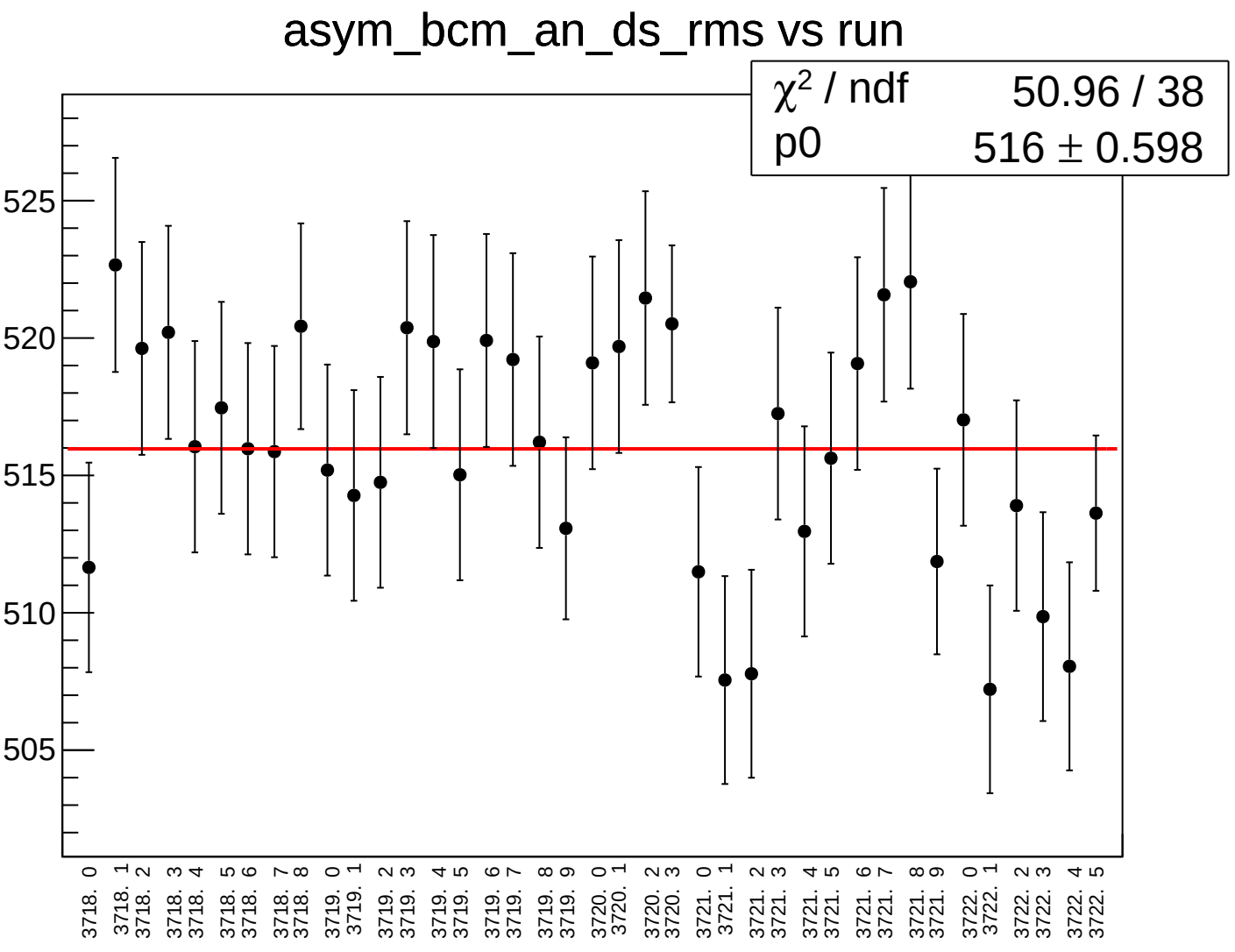

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 5.023e+04 / 38
p0 1.106e+05 ± 0.1973
110.72
110.7
110.68
110.66
110.64
110.62
110.6
110.58
110.56
110.54
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −163.5
Std Dev 193.2
80
60
40
20
0
−20
−40
−60

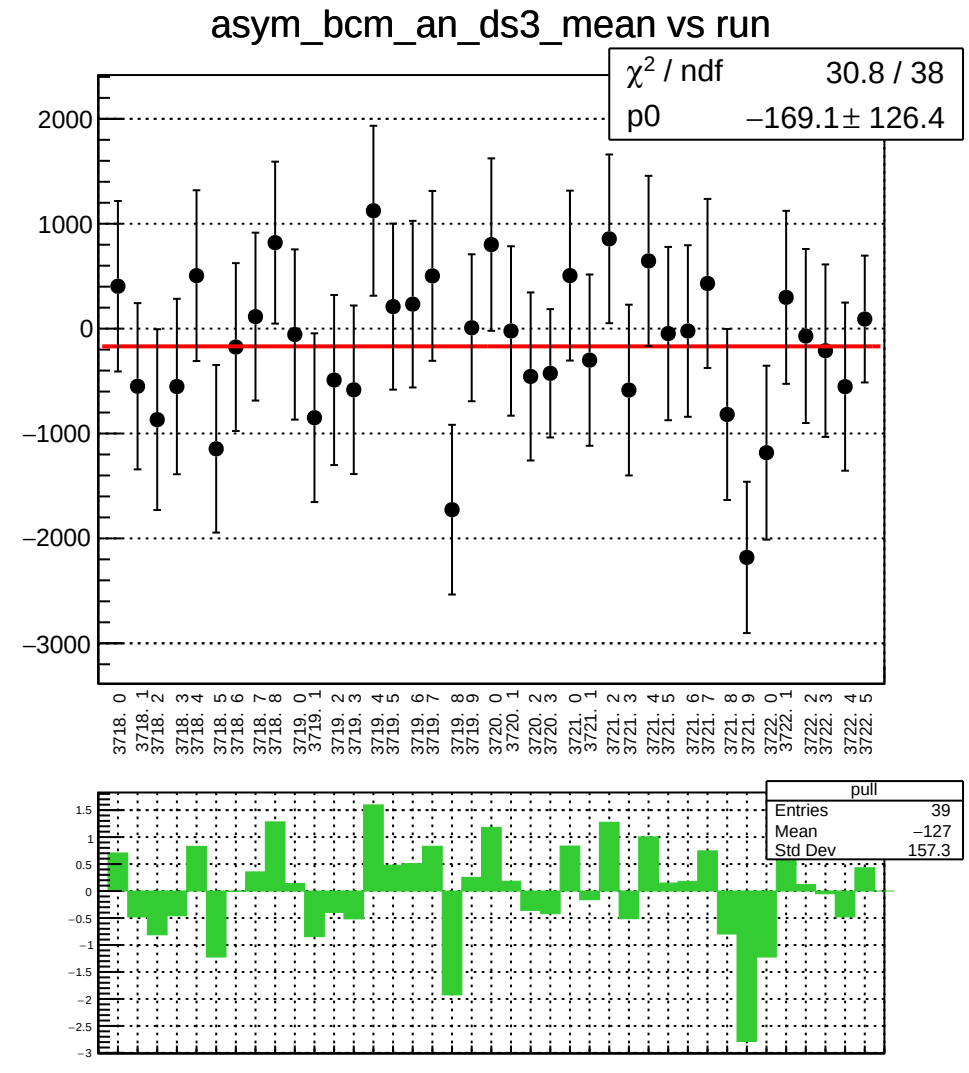

pull1D
Entries 39
Mean 1.622
Std Dev 3.509
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

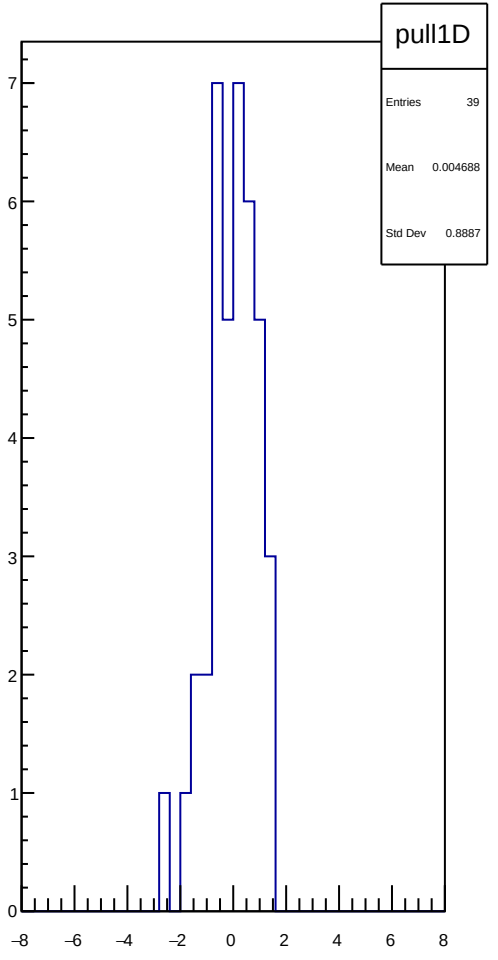

yield_bpm0l01WS_rms vs run
χ² / ndf 2010 / 38
p0 120.2 ± 0.1395
135
130
125
120
115
110
105
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

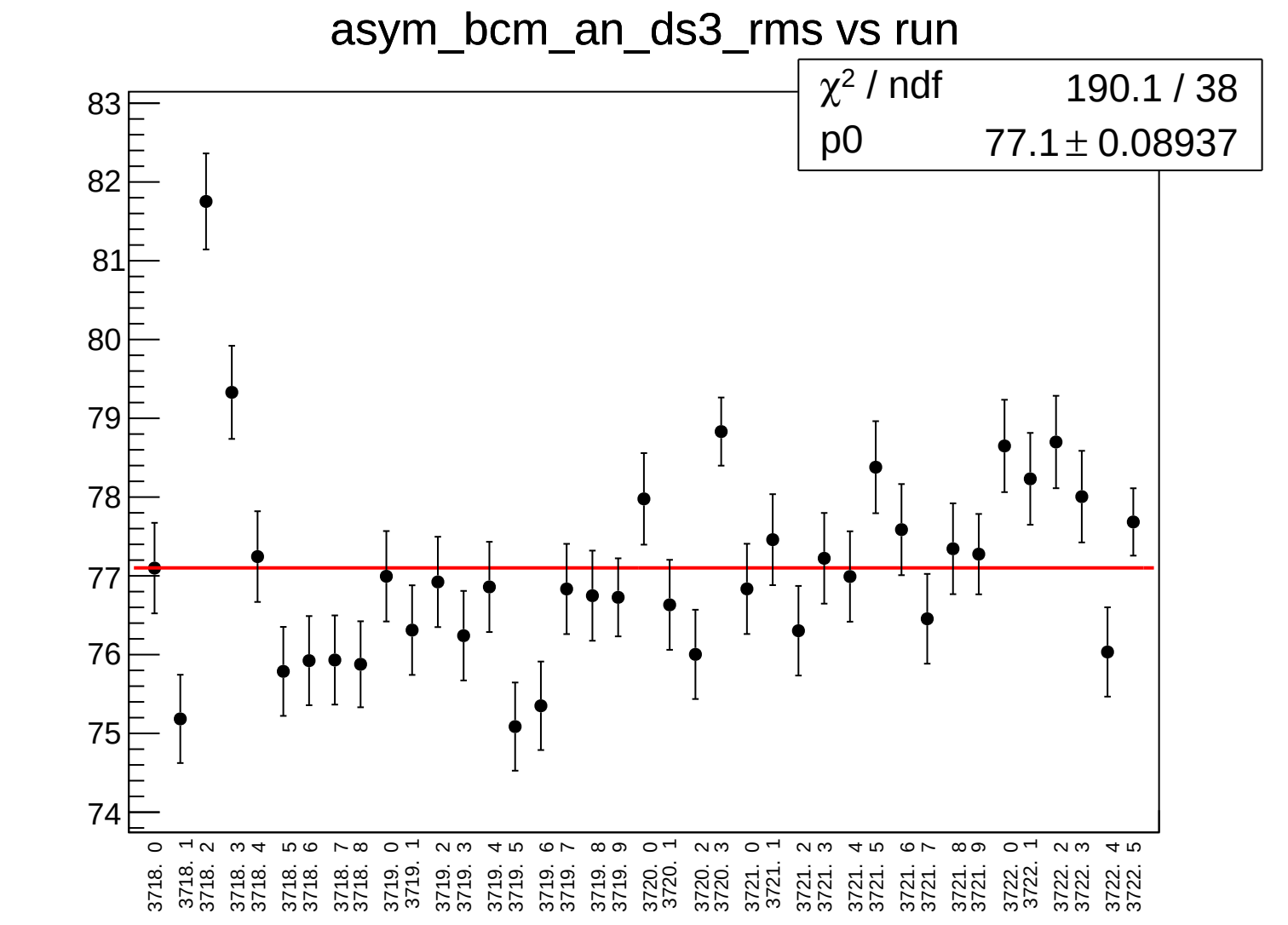

asym_bcm_an_ds_mean vs run
χ² / ndf 37.3 / 38
p0 −1036 ± 845.7
15000
10000
5000
0
−5000
−10000
−15000
−20000
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 477.7
Std Dev 463.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

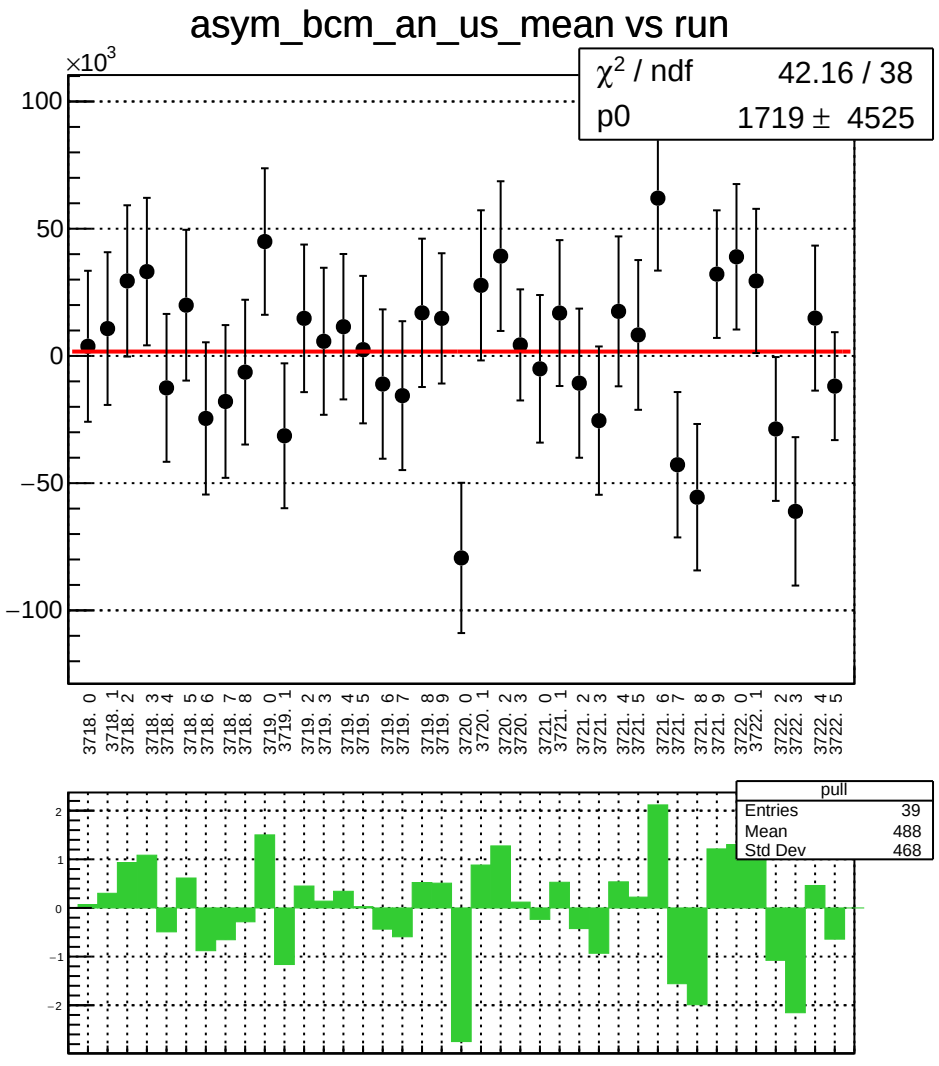

pull1D
Entries 39
Mean −0.00349
Std Dev 0.9779
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

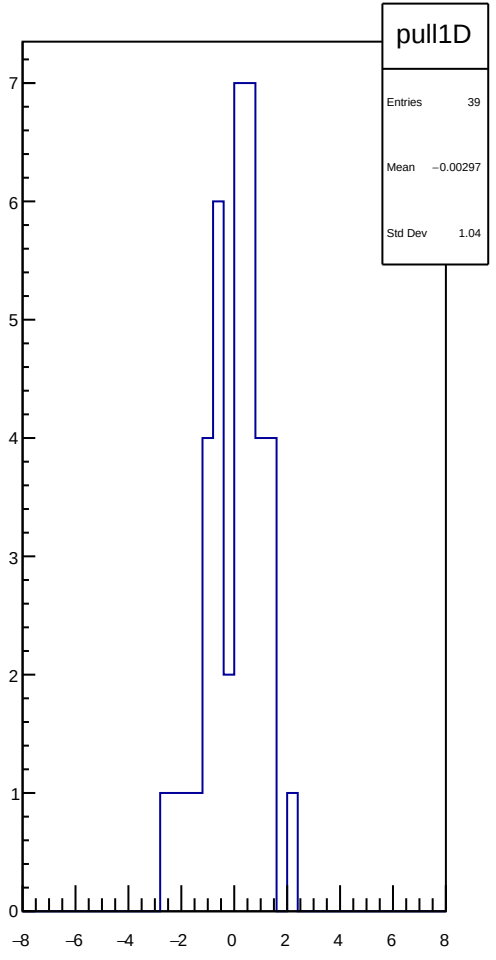

asym_bcm_an_ds_rms vs run
χ² / ndf 50.96 / 38
p0 516 ± 0.598
525
520
515
510
505
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

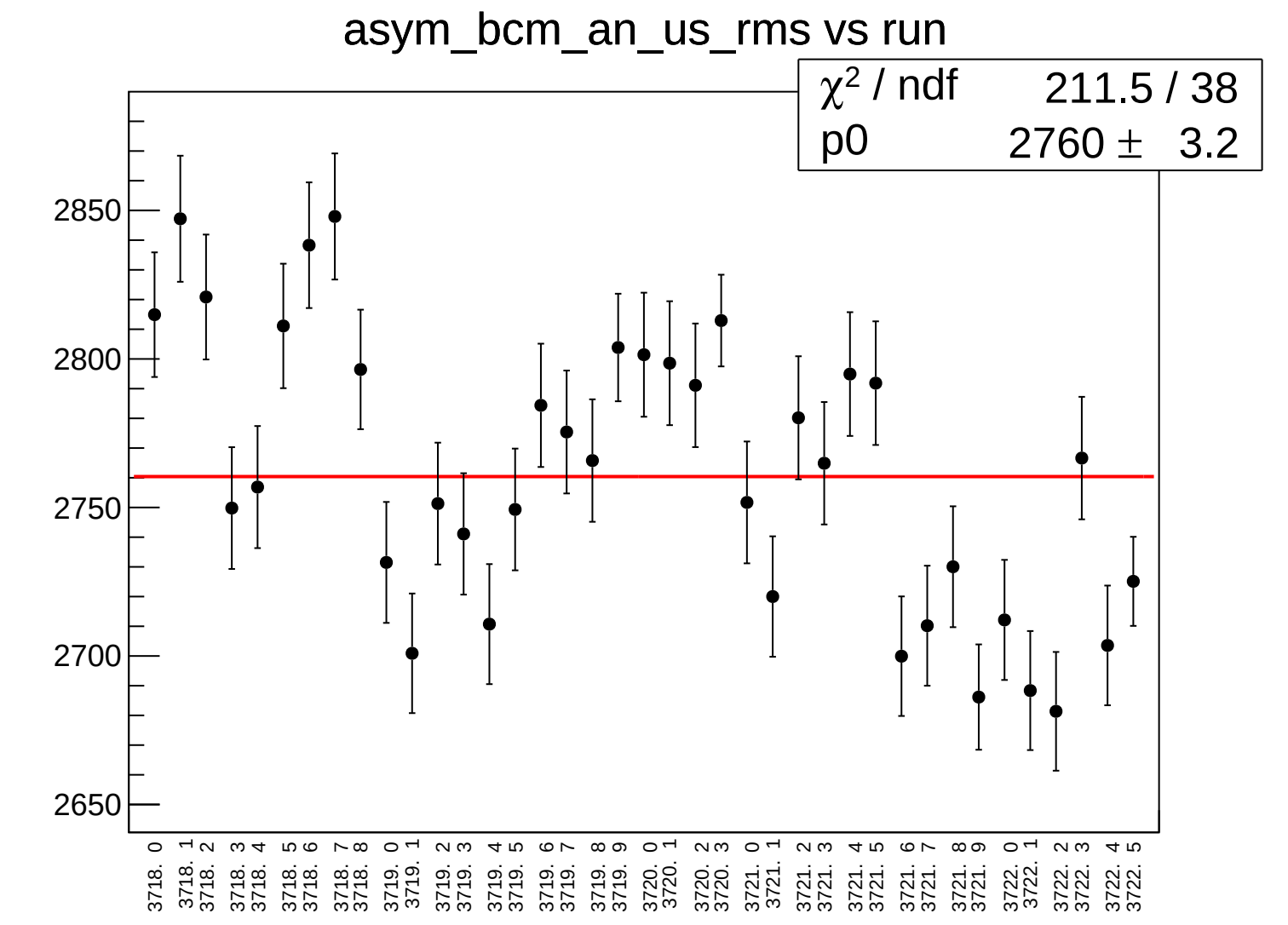

asym_bcm_an_ds3_mean vs run
χ² / ndf 30.8 / 38
p0 −169.1± 126.4
2000
1000
0
−1000
−2000
−3000
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −127
Std Dev 157.3
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

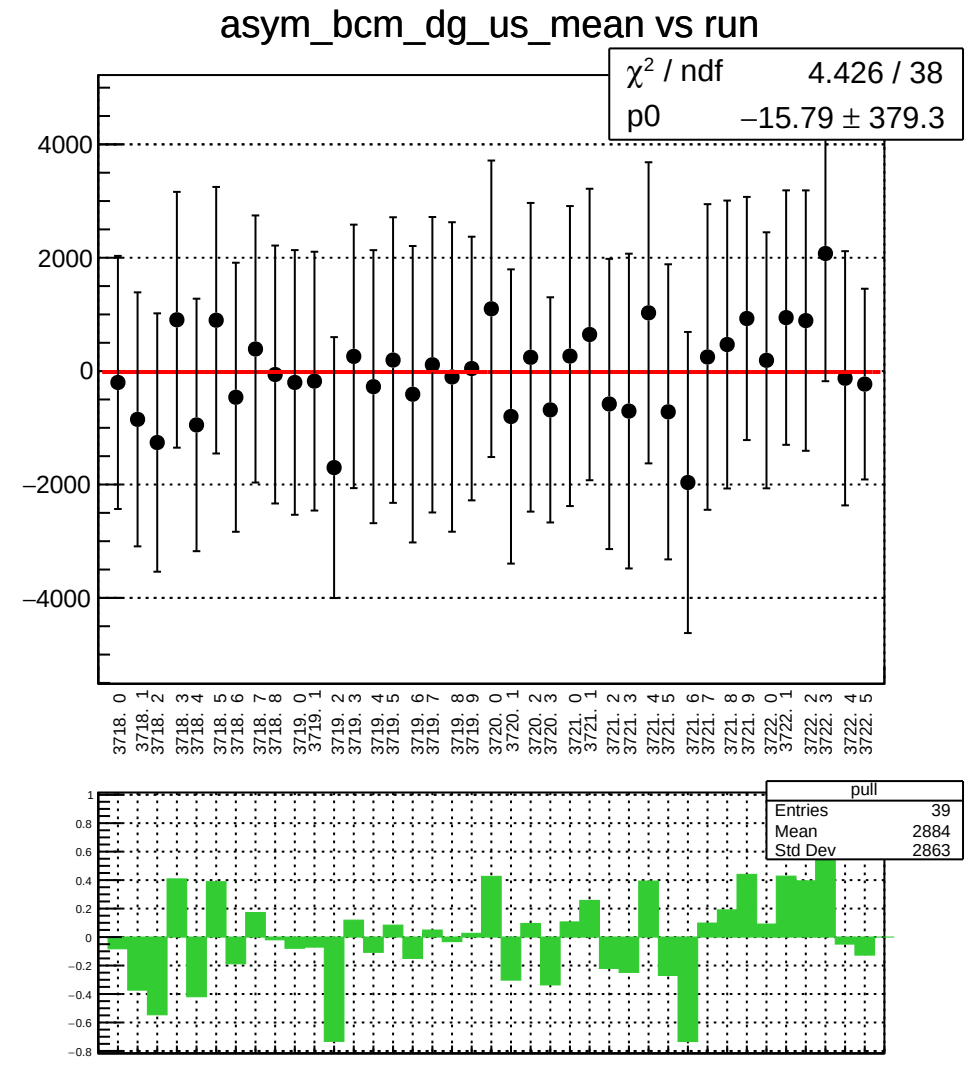

pull1D
Entries 39
Mean 0.004688
Std Dev 0.8887
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

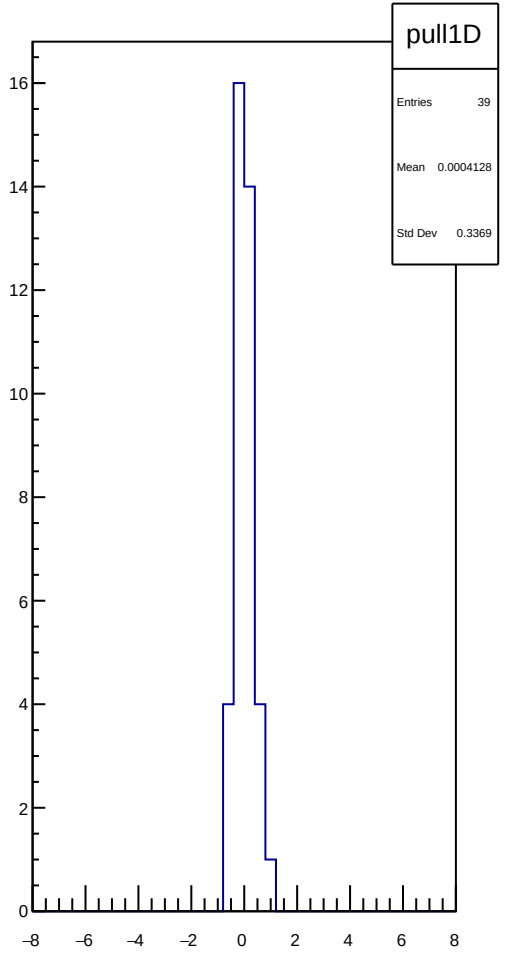

asym_bcm_an_ds3_rms vs run
χ² / ndf 190.1 / 38
p0 77.1 ± 0.08937
83
82
81
80
79
78
77
76
75
74
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

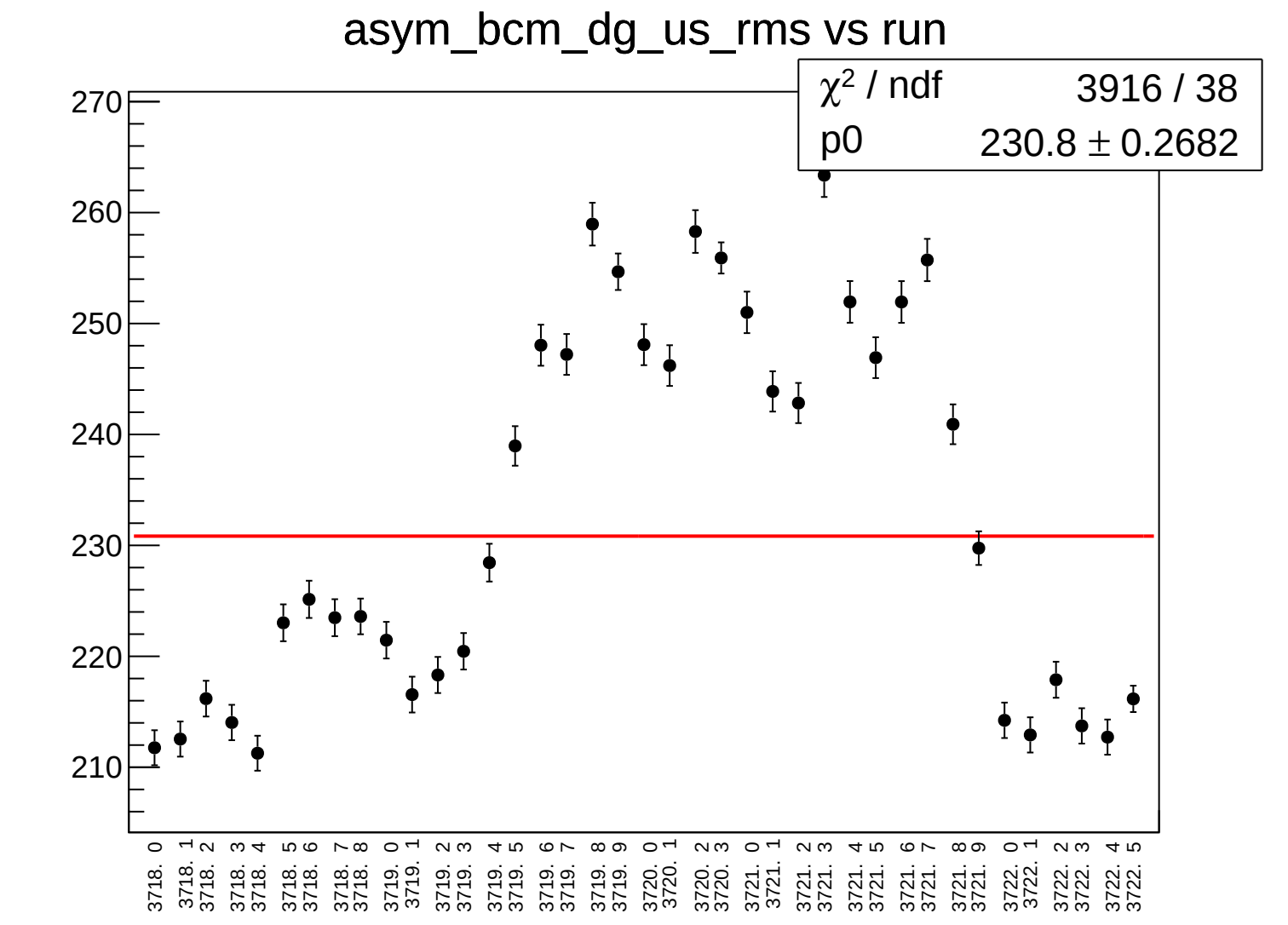

asym_bcm_an_us_mean vs run
×10^3
χ^2 / ndf 42.16 / 38
p0 1719 ± 4525
100
50
0
−50
−100
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 488
Std Dev 468
2
1
0
−1
−2

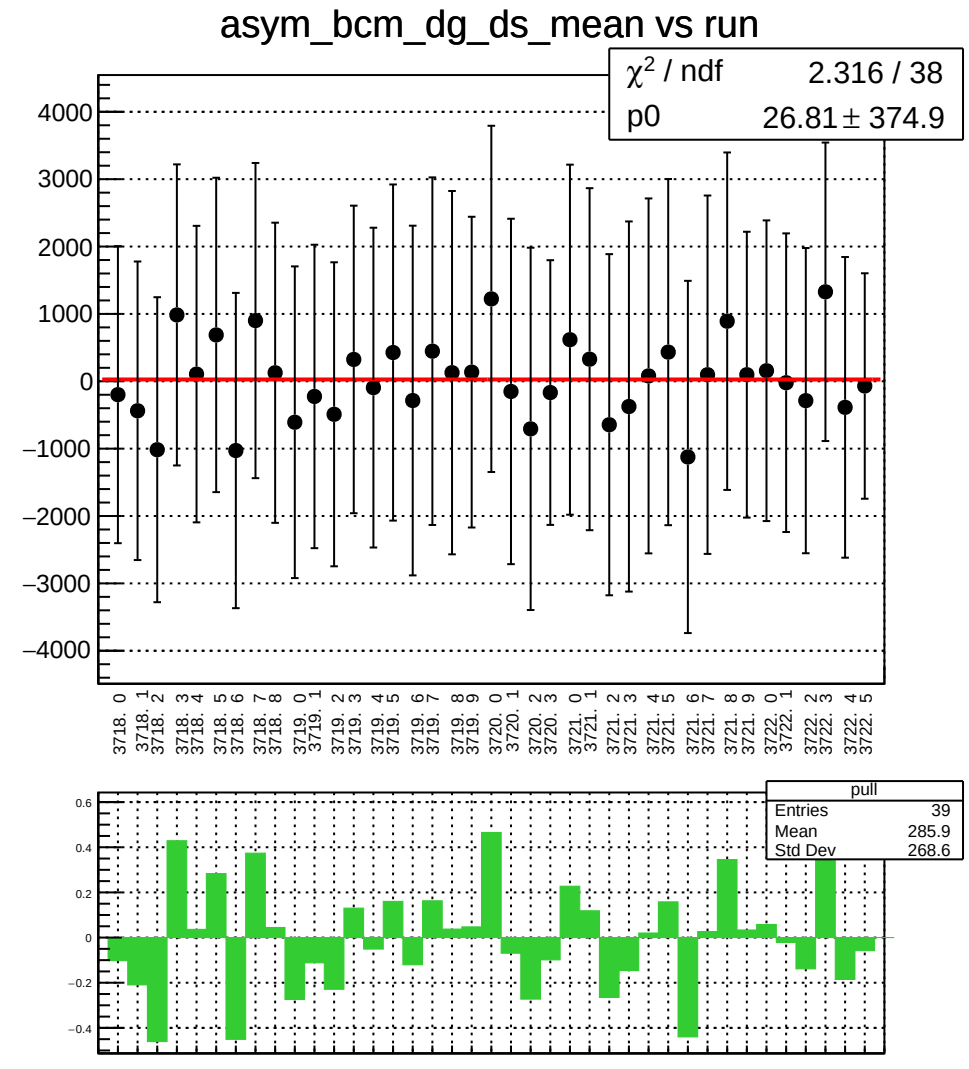

pull1D
Entries 39
Mean −0.00297
Std Dev 1.04
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

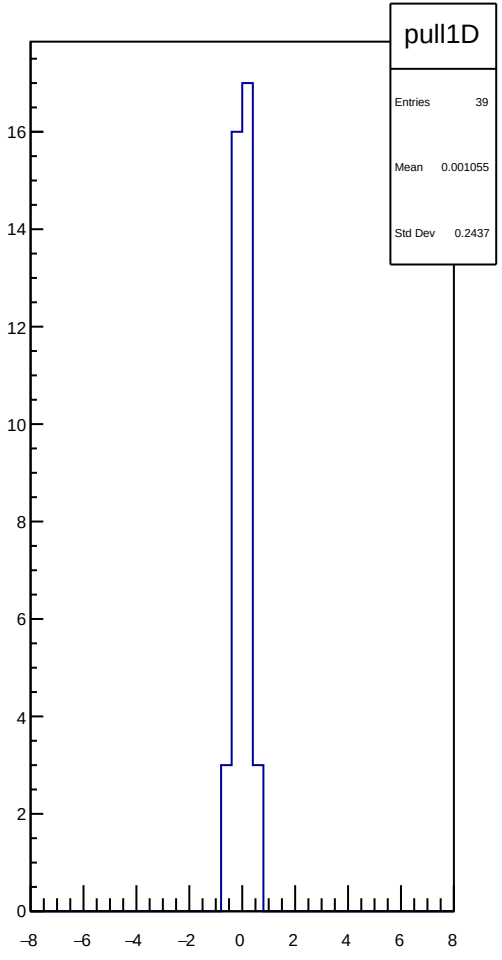

asym_bcm_an_us_rms vs run
χ² / ndf 211.5 / 38
p0 2760 ± 3.2
2850
2800
2750
2700
2650
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

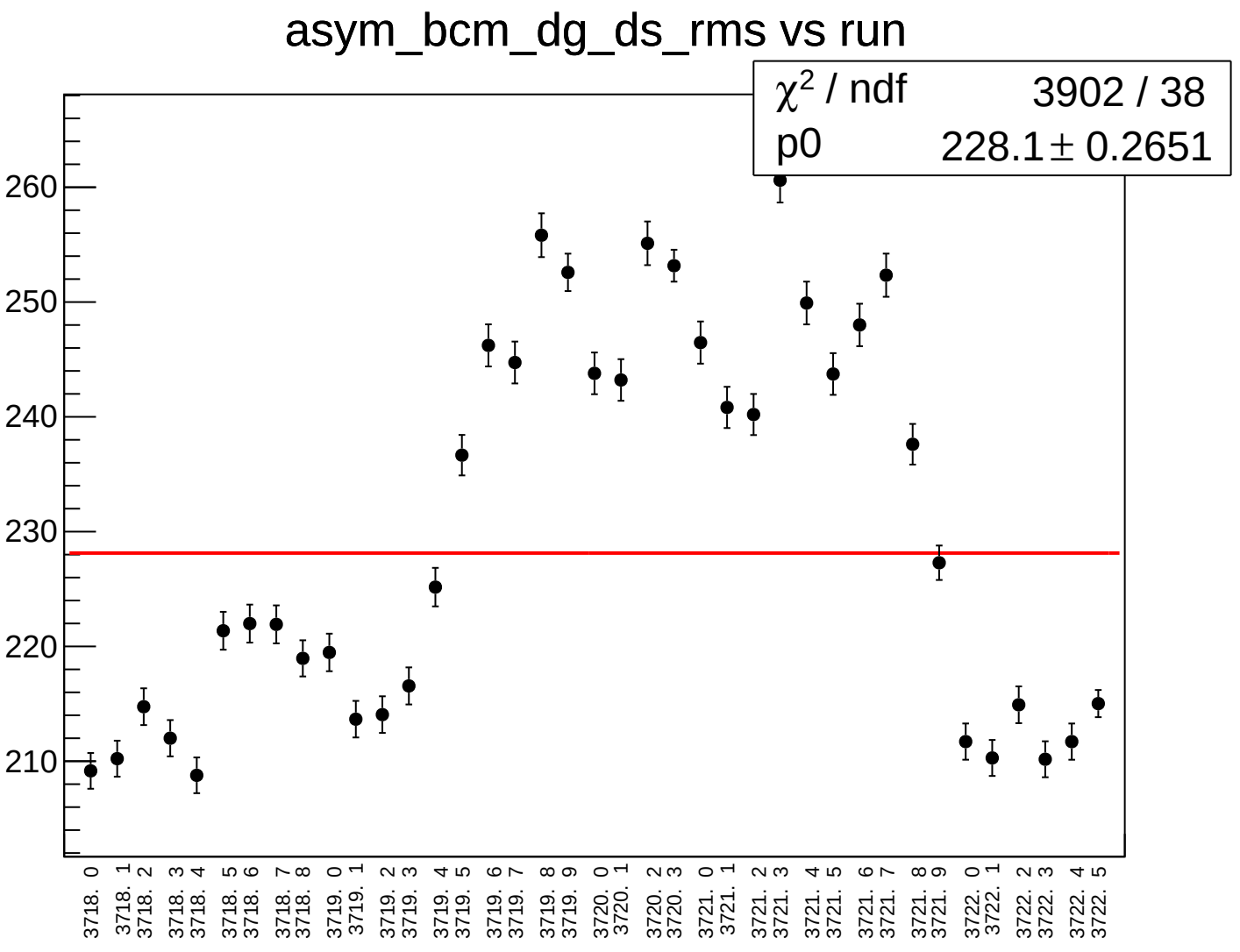

asym_bcm_dg_us_mean vs run
χ² / ndf 4.426 / 38
p0 −15.79 ± 379.3
4000
2000
0
−2000
−4000
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 2884
Std Dev 2863
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

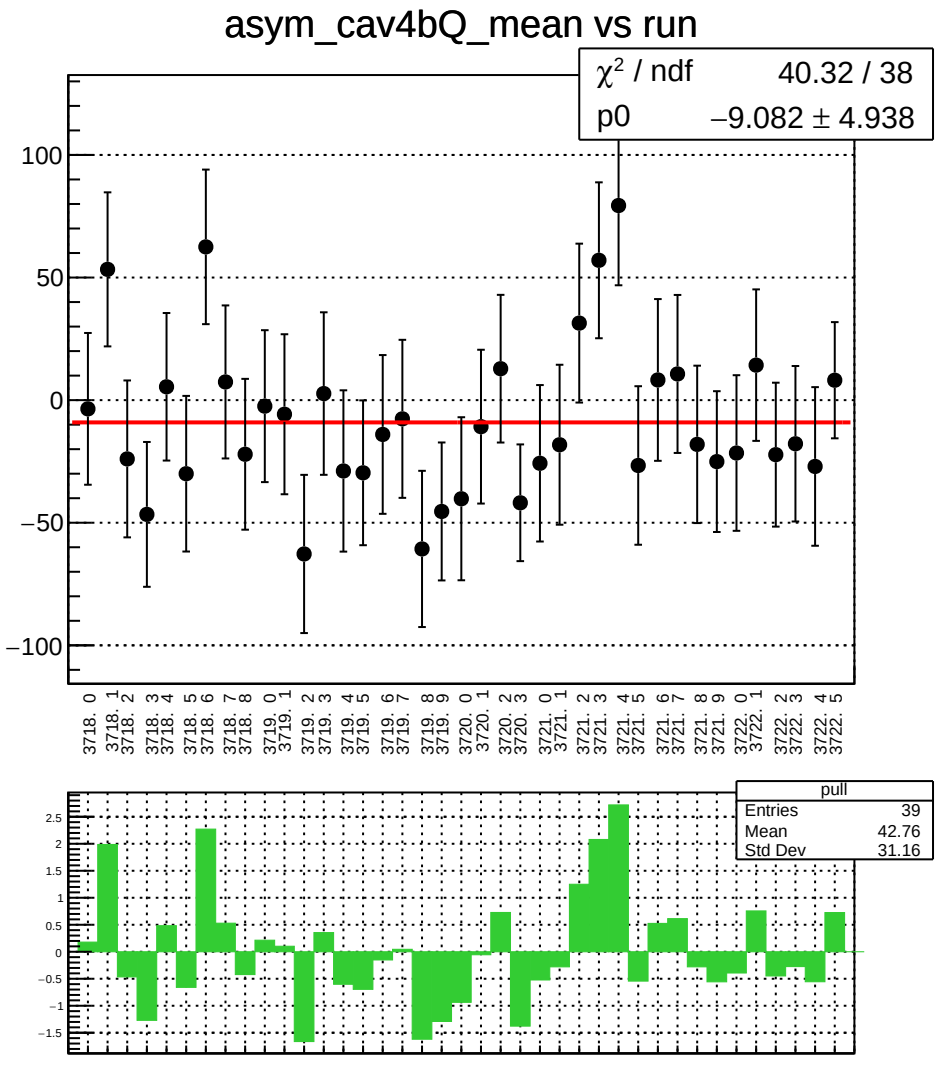

pull1D
Entries 39
Mean 0.0004128
Std Dev 0.3369
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

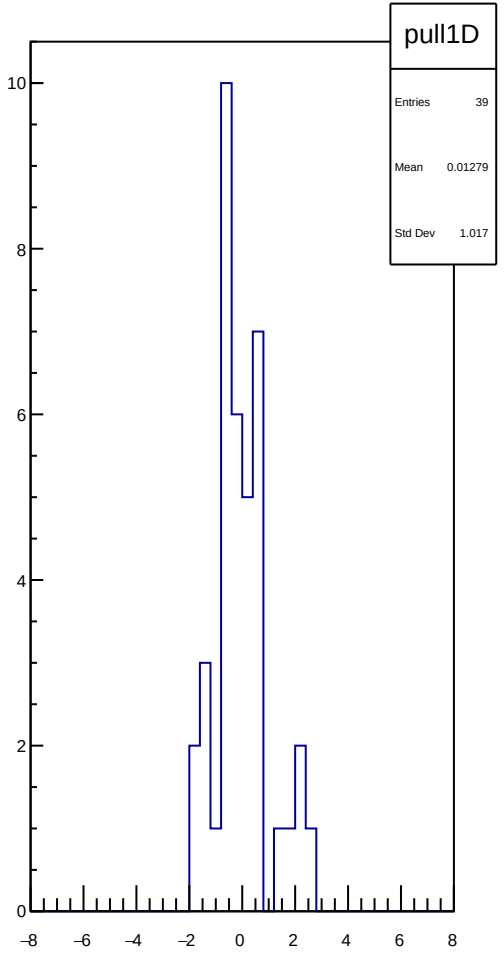

asym_bcm_dg_us_rms vs run
χ² / ndf 3916 / 38
p0 230.8 ± 0.2682
270
260
250
240
230
220
210
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

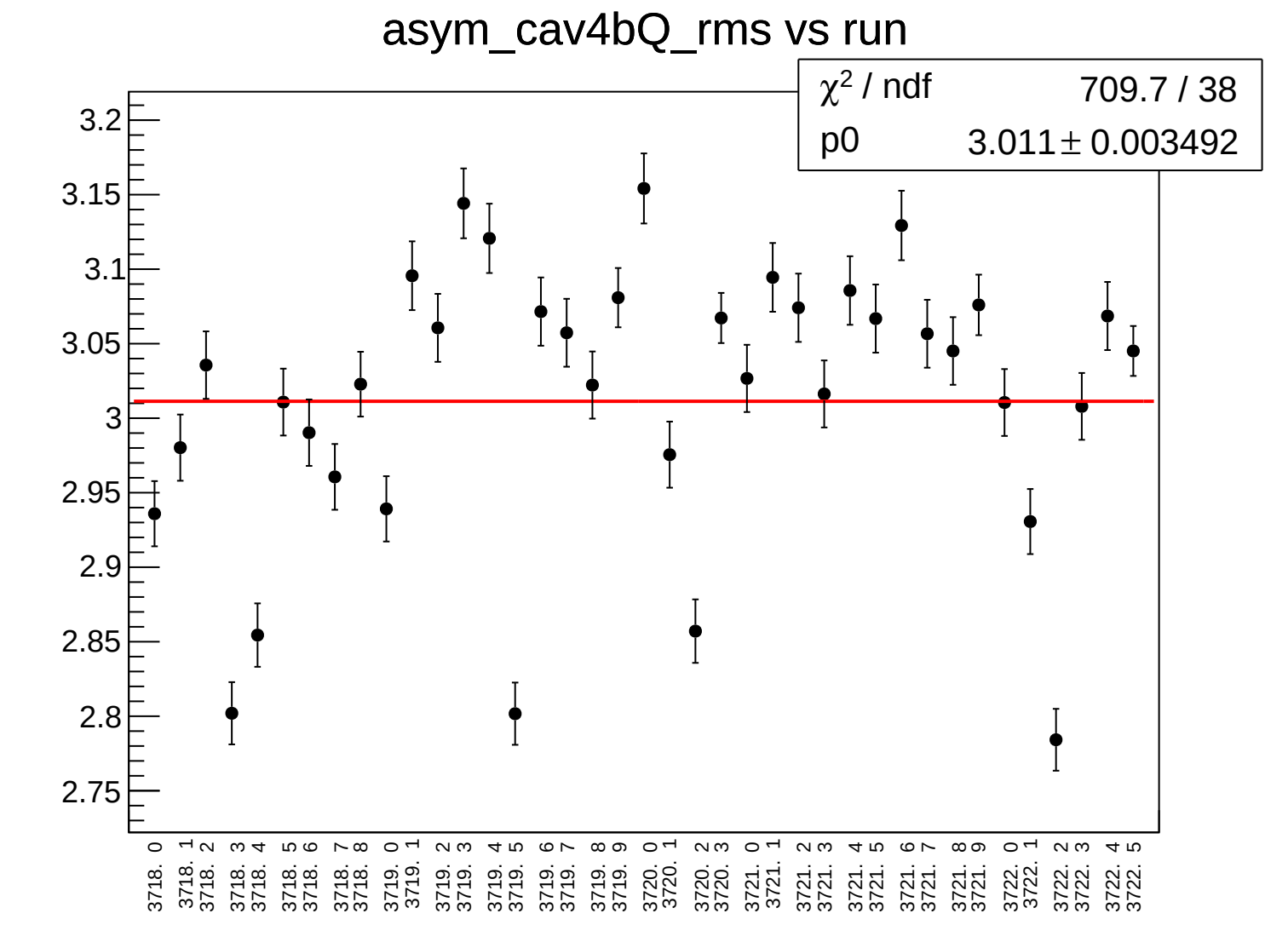

asym_bcm_dg_ds_mean vs run
χ² / ndf 2.316 / 38
p0 26.81 ± 374.9
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 285.9
Std Dev 268.6
0.6
0.4
0.2
0
−0.2
−0.4

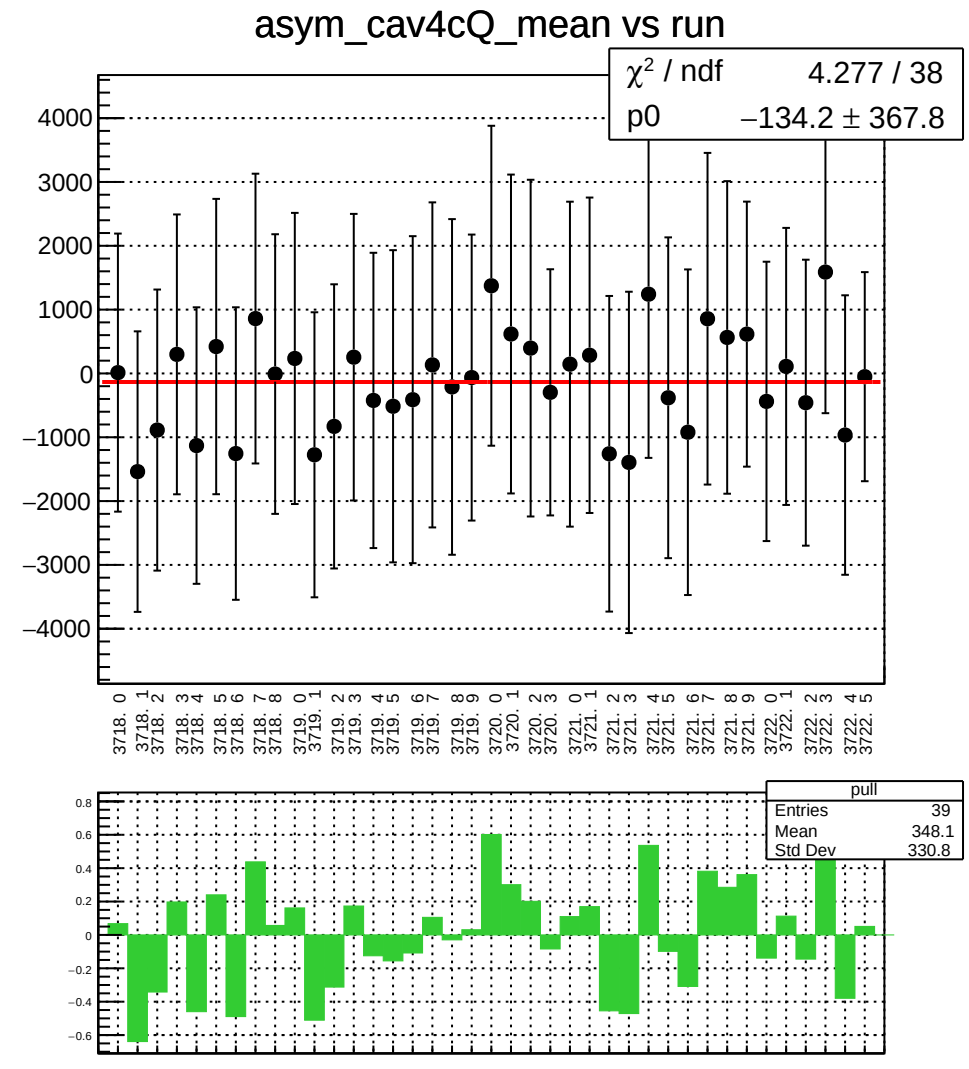

pull1D
Entries 39
Mean 0.001055
Std Dev 0.2437
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

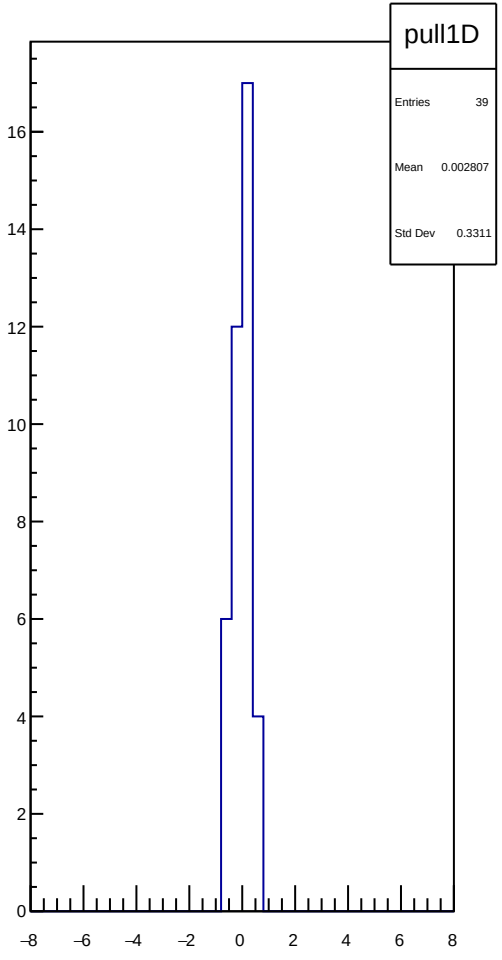

asym_bcm_dg_ds_rms vs run
χ² / ndf 3902 / 38
p0 228.1 ± 0.2651
260
250
240
230
220
210
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

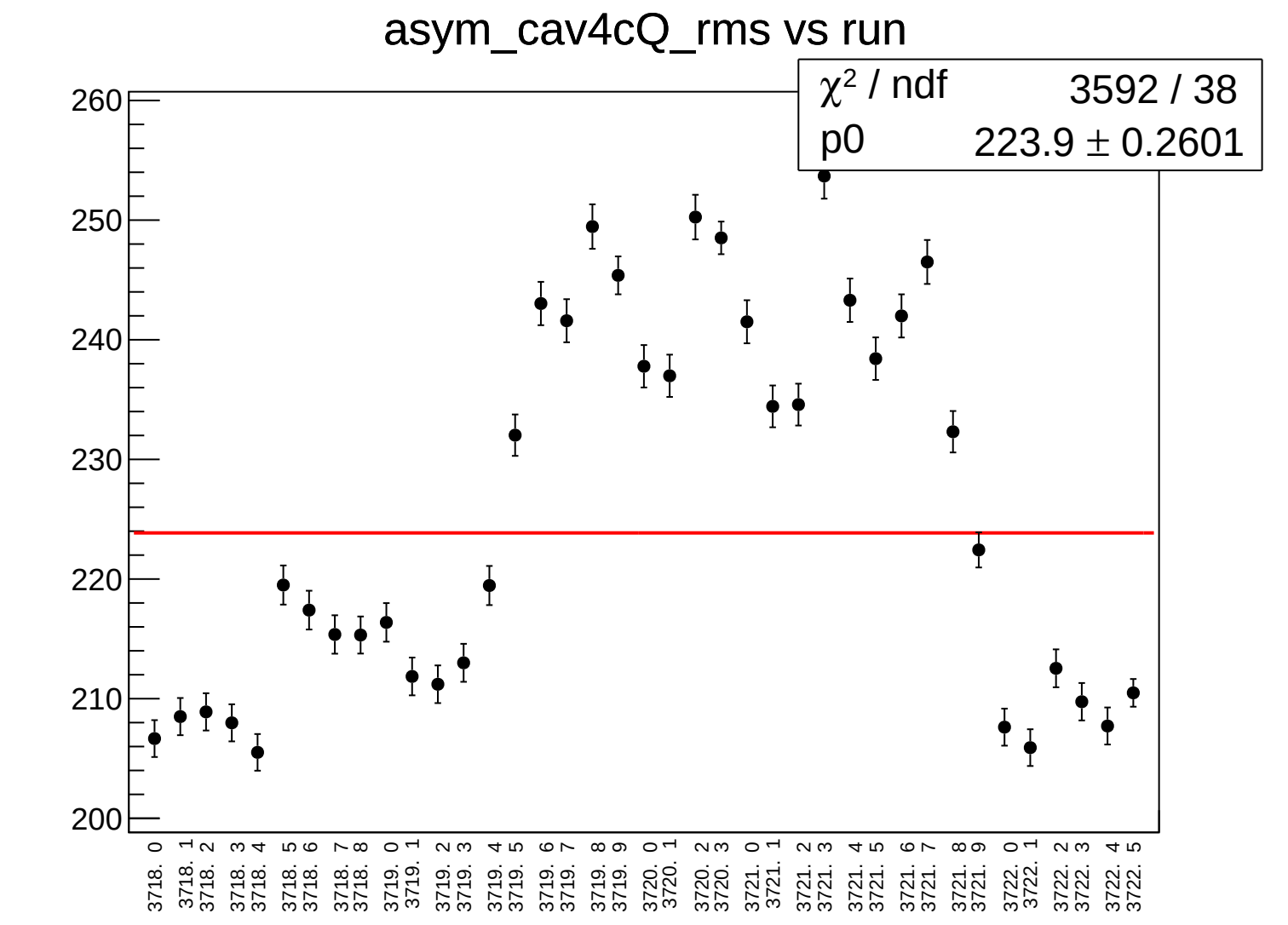

asym_cav4bQ_mean vs run
χ² / ndf 40.32 / 38
p0 −9.082 ± 4.938
100
50
0
−50
−100
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 42.76
Std Dev 31.16
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

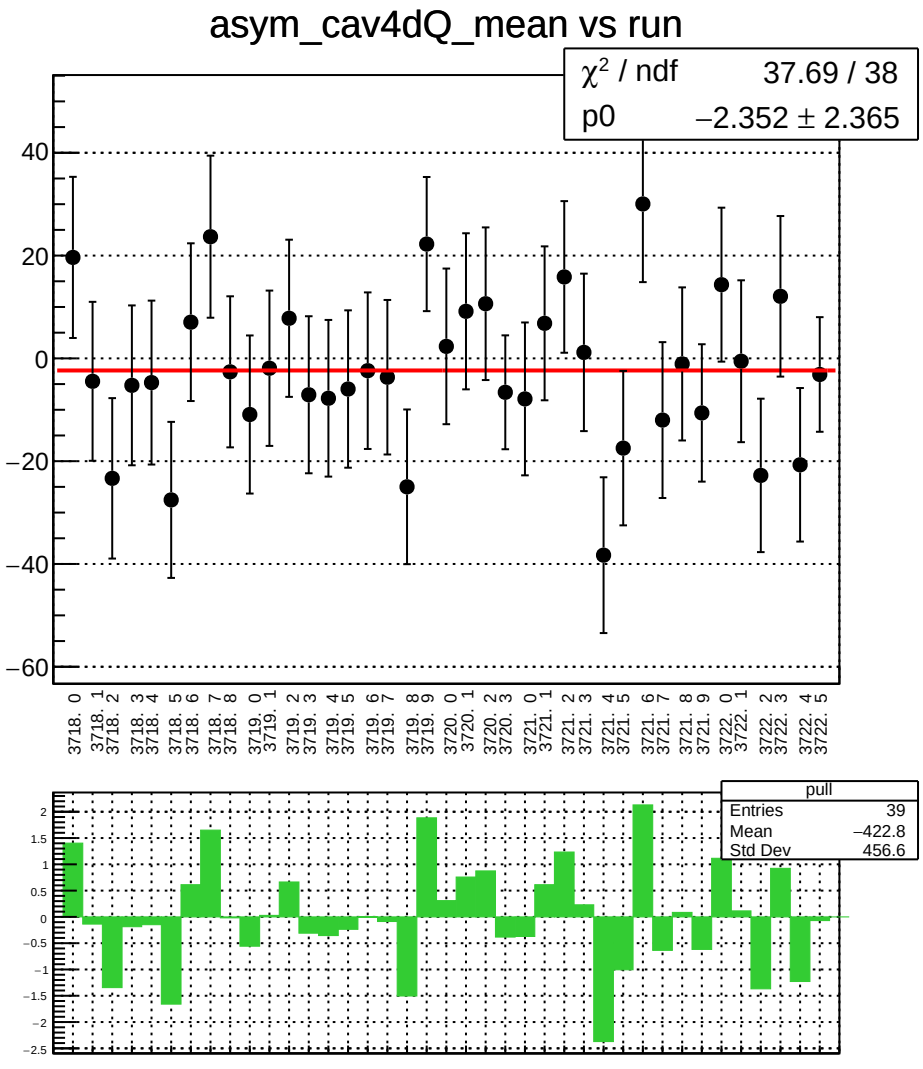

pull1D
Entries 39
Mean 0.01279
Std Dev 1.017
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

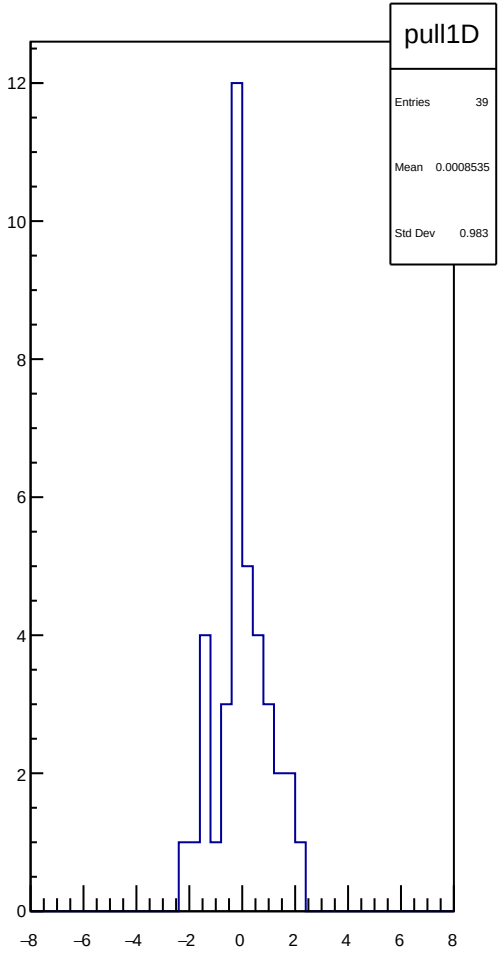

asym_cav4bQ_rms vs run
χ² / ndf 709.7 / 38
p0 3.011 ± 0.003492
3.2
3.15
3.1
3.05
3
2.95
2.9
2.85
2.8
2.75
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

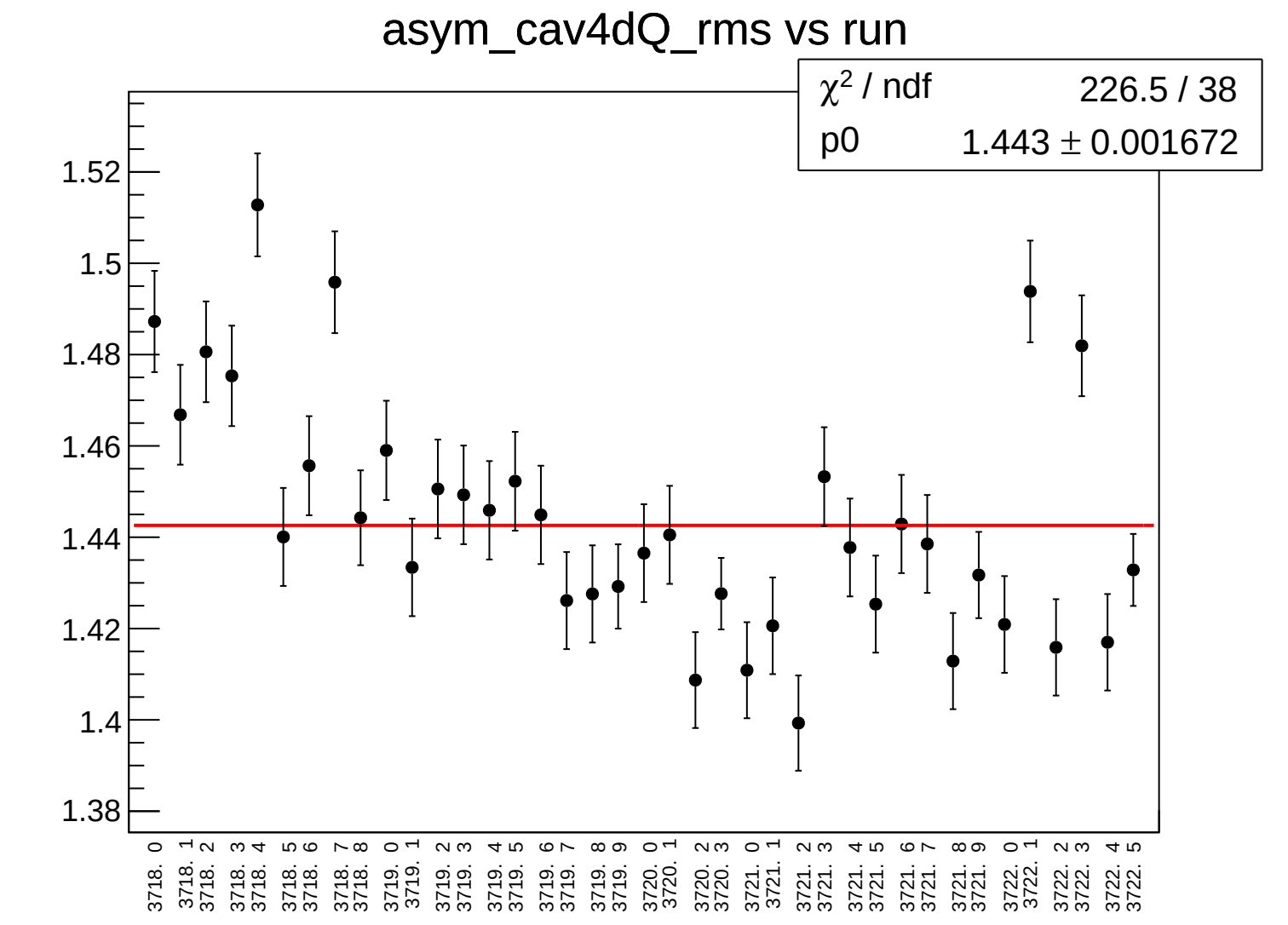

asym_cav4cQ_mean vs run
χ² / ndf 4.277 / 38
p0 −134.2 ± 367.8
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 348.1
Std Dev 330.8
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

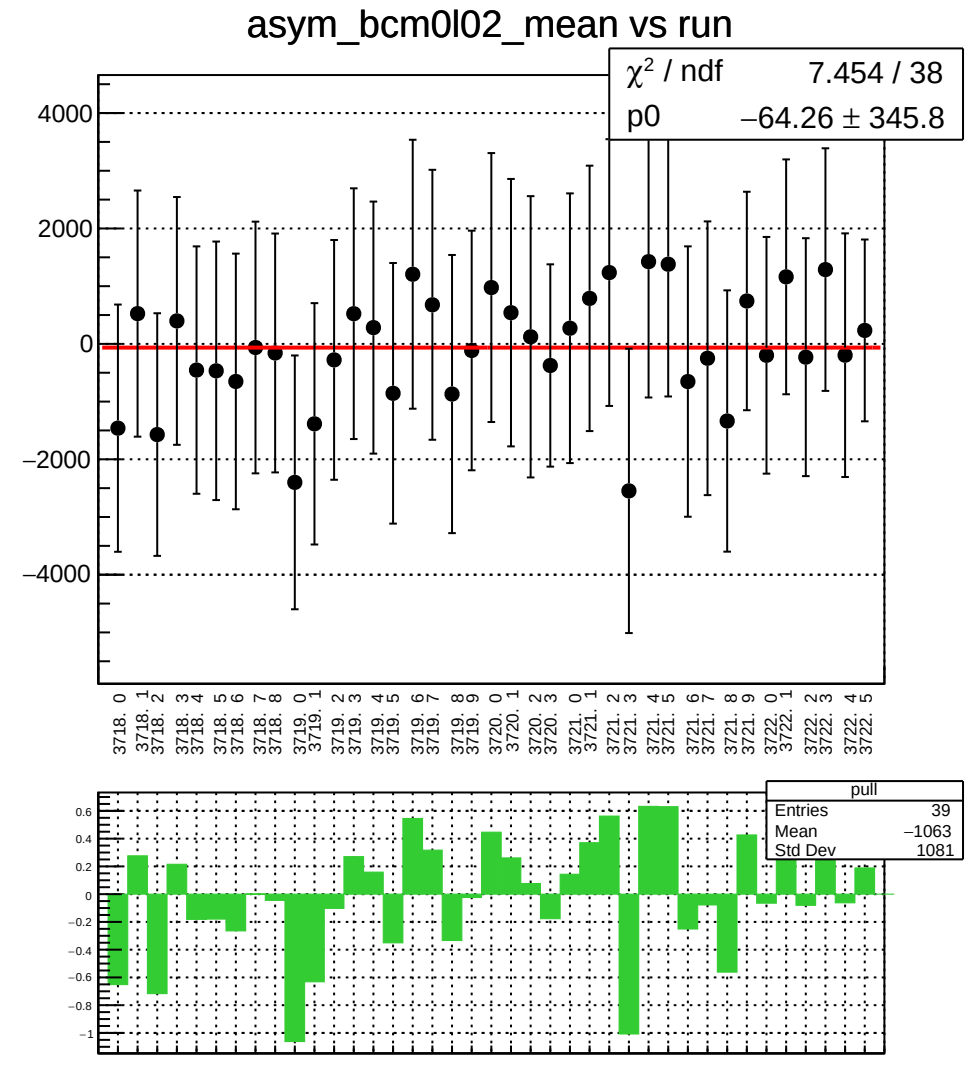

pull1D
Entries 39
Mean 0.002807
Std Dev 0.3311
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

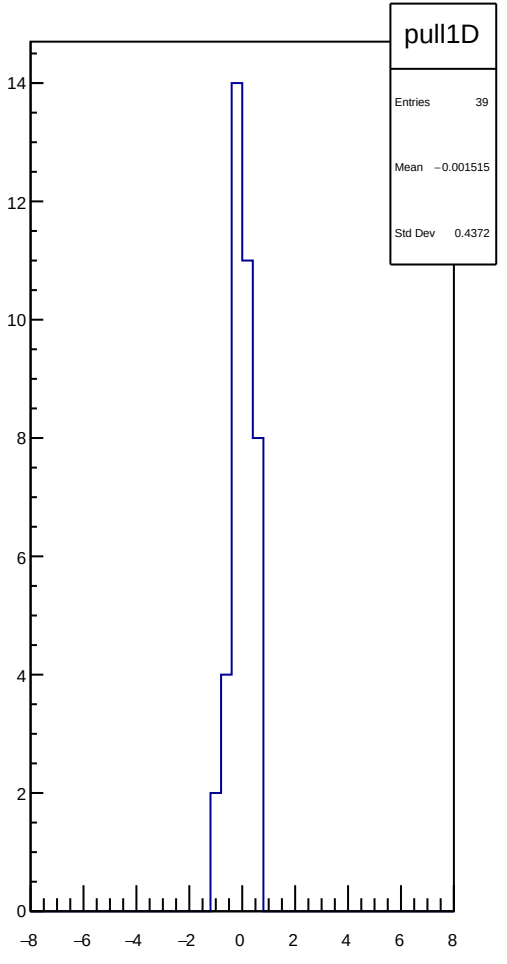

asym_cav4cQ_rms vs run
χ² / ndf 3592 / 38
p0 223.9 ± 0.2601
260
250
240
230
220
210
200
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

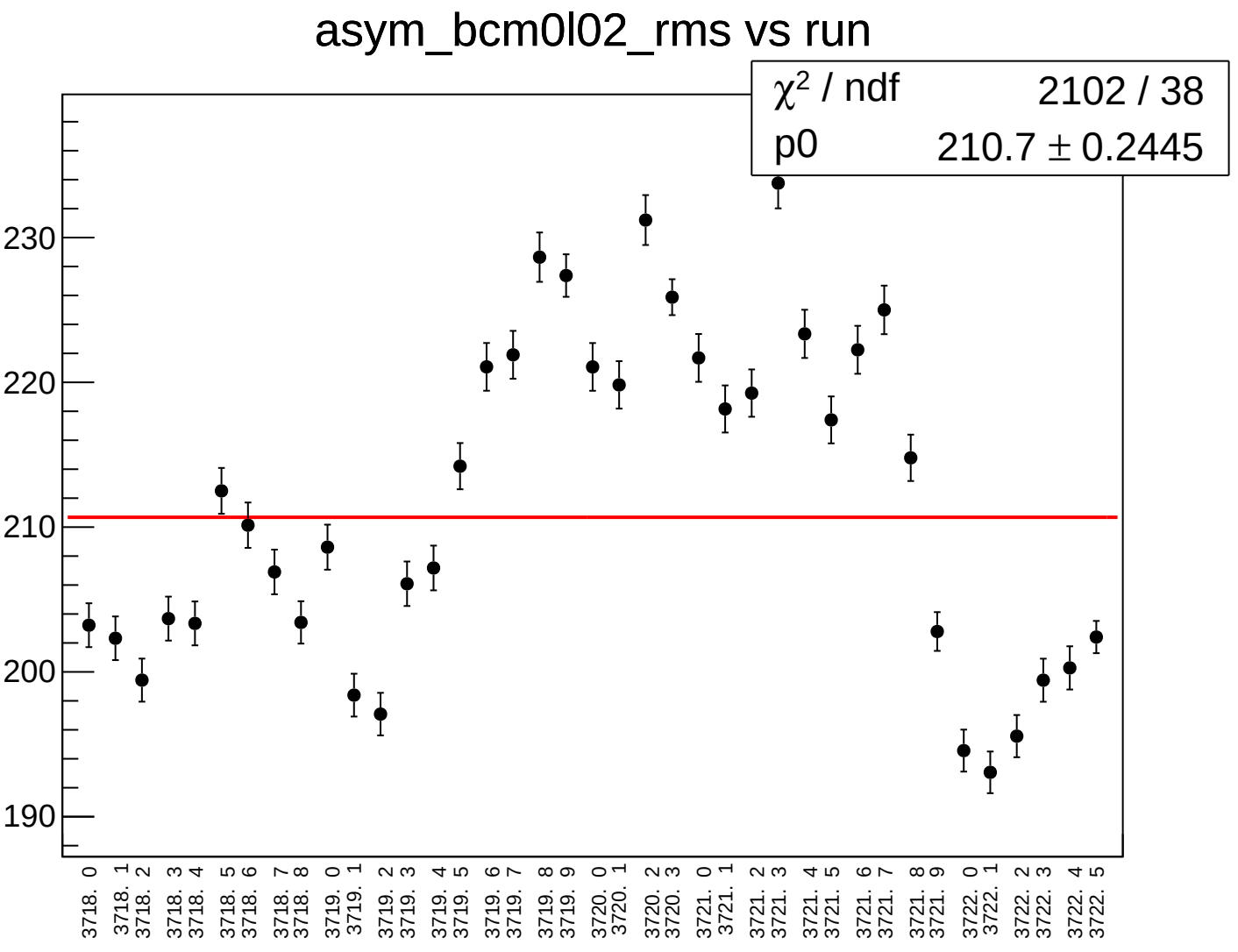

asym_cav4dQ_mean vs run
χ² / ndf 37.69 / 38
p0 −2.352 ± 2.365
40
20
0
−20
−40
−60
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −422.8
Std Dev 456.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

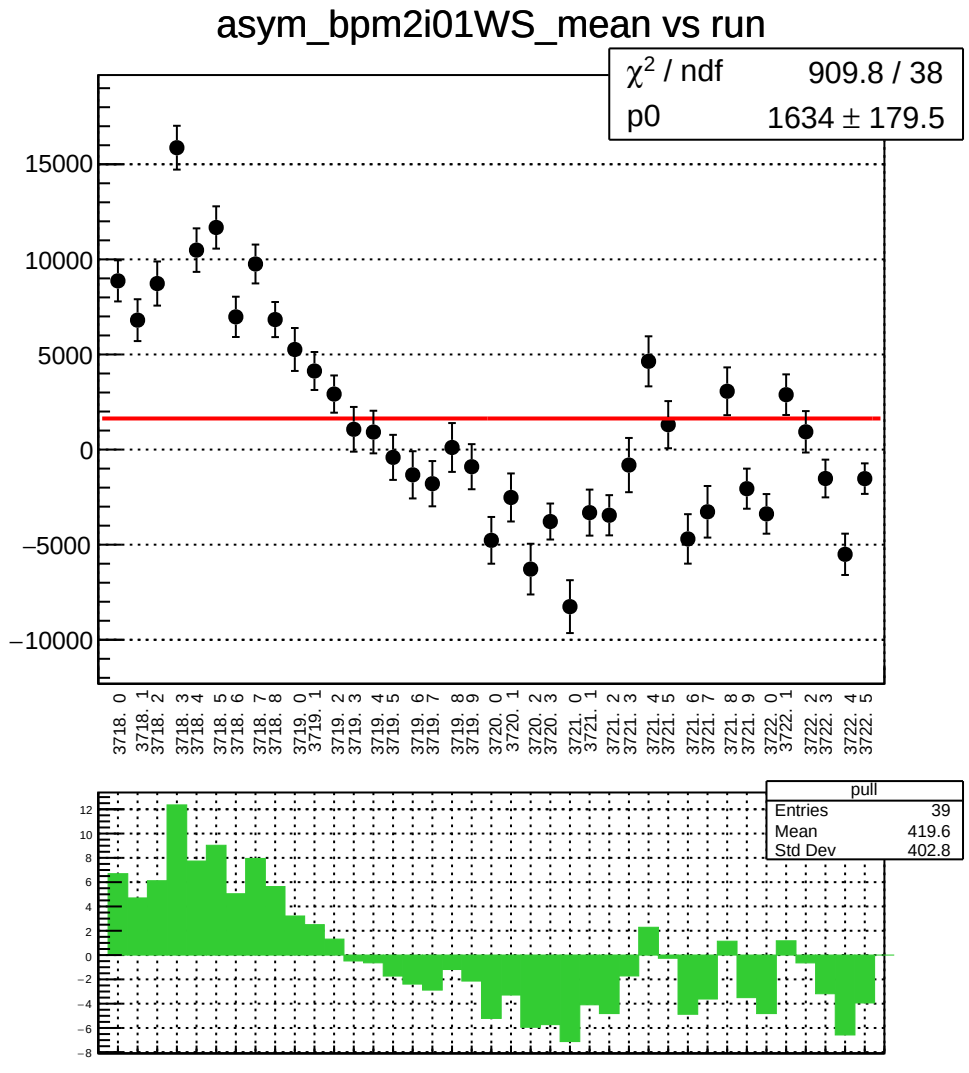

pull1D
Entries 39
Mean 0.0008535
Std Dev 0.983
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

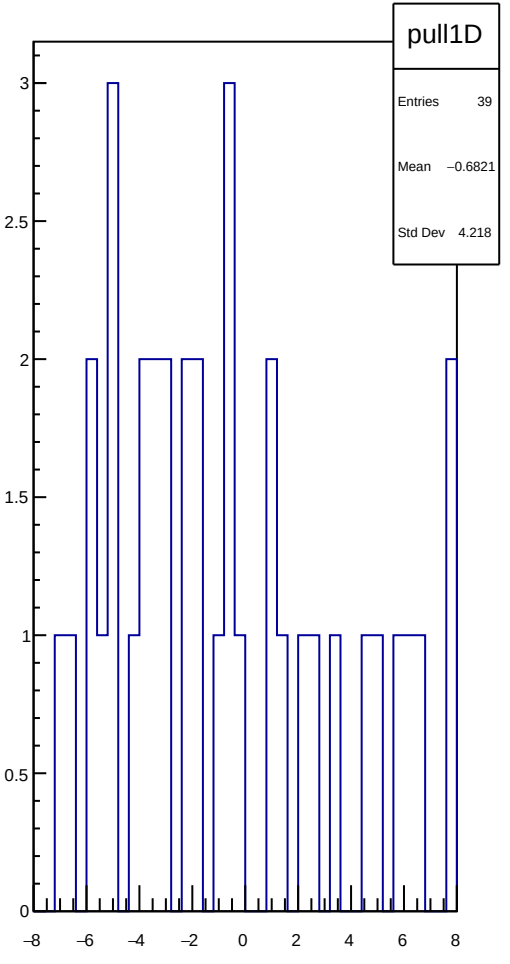

asym_cav4dQ_rms vs run
χ² / ndf 226.5 / 38
p0 1.443 ± 0.001672
1.52
1.5
1.48
1.46
1.44
1.42
1.4
1.38
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

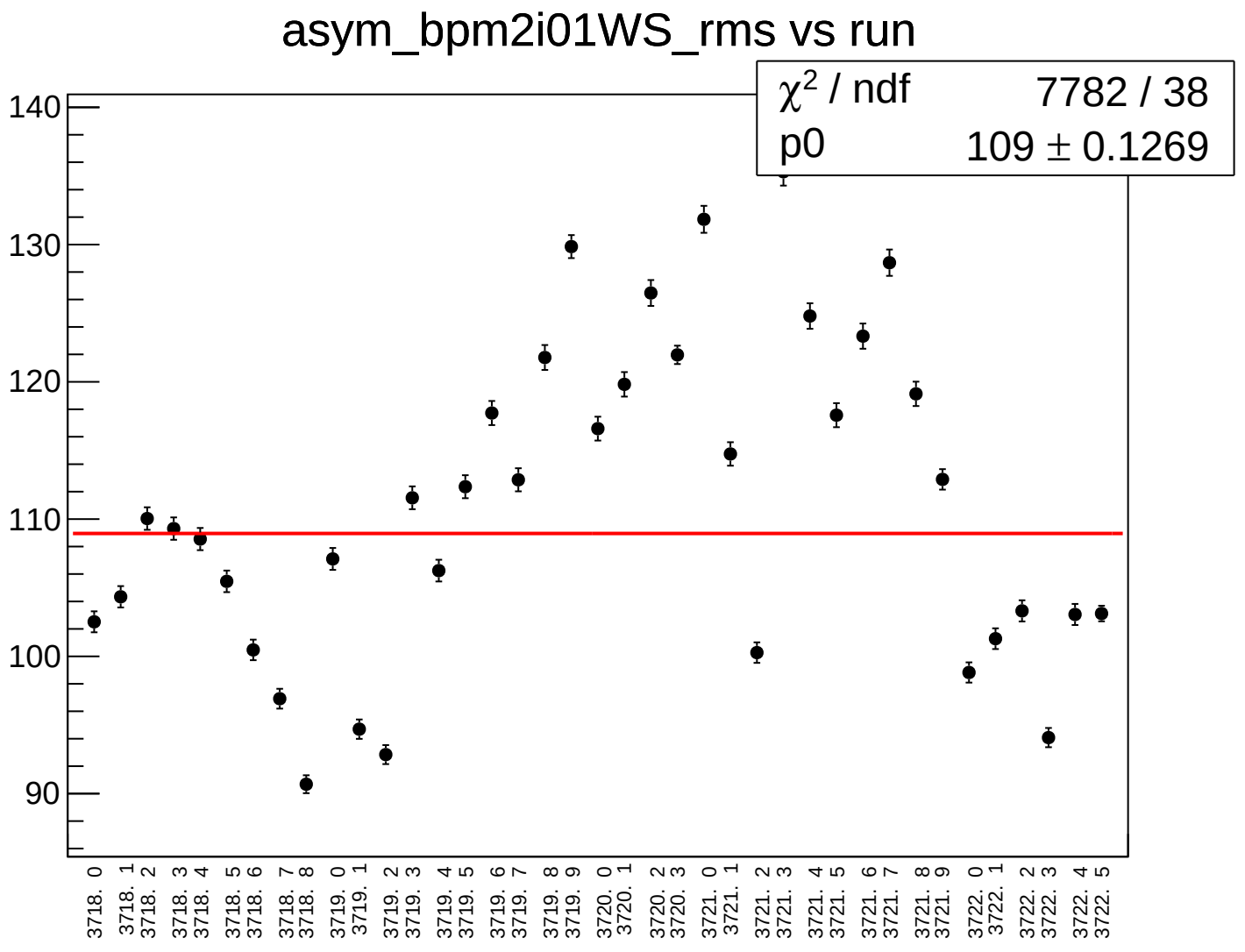

asym_bcm0l02_mean vs run
χ² / ndf 7.454 / 38
p0 −64.26 ± 345.8
4000
2000
0
−2000
−4000
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −1063
Std Dev 1081
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

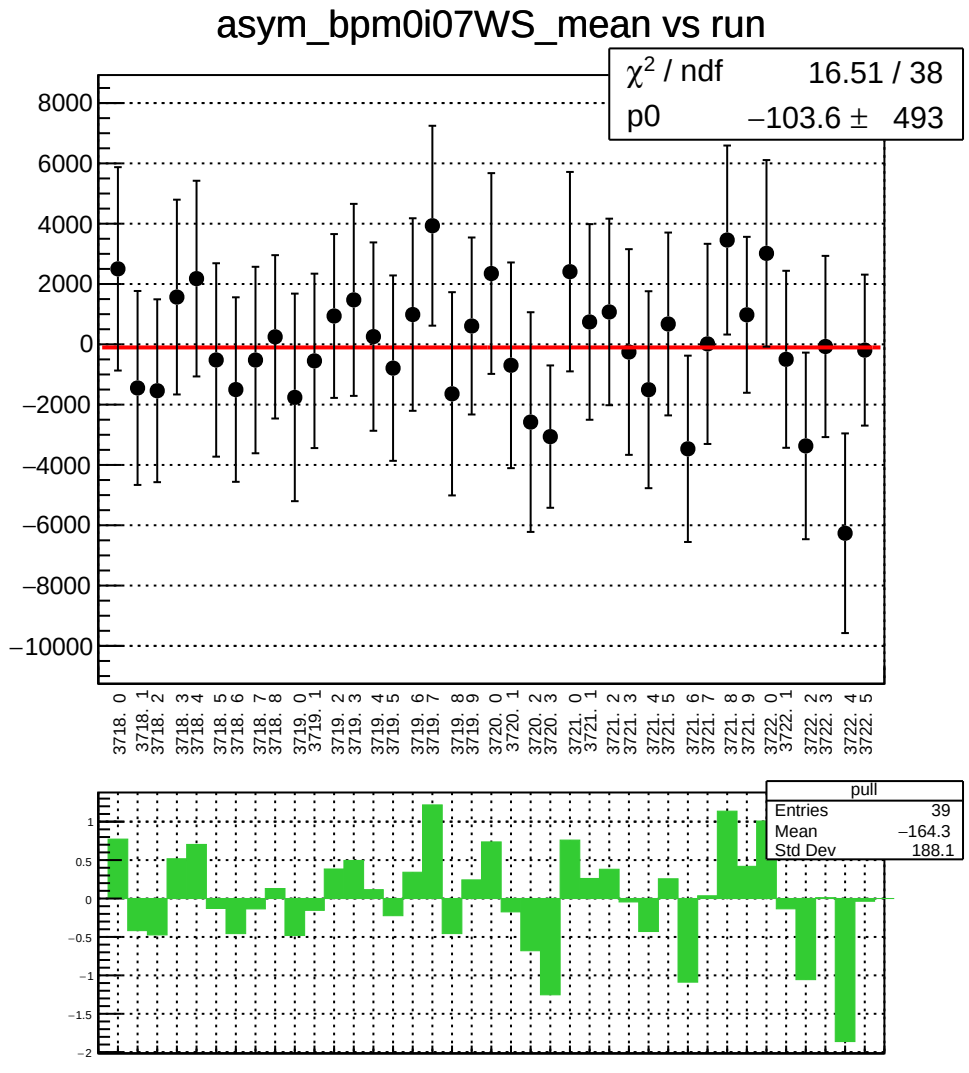

pull1D
Entries 39
Mean −0.001515
Std Dev 0.4372
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

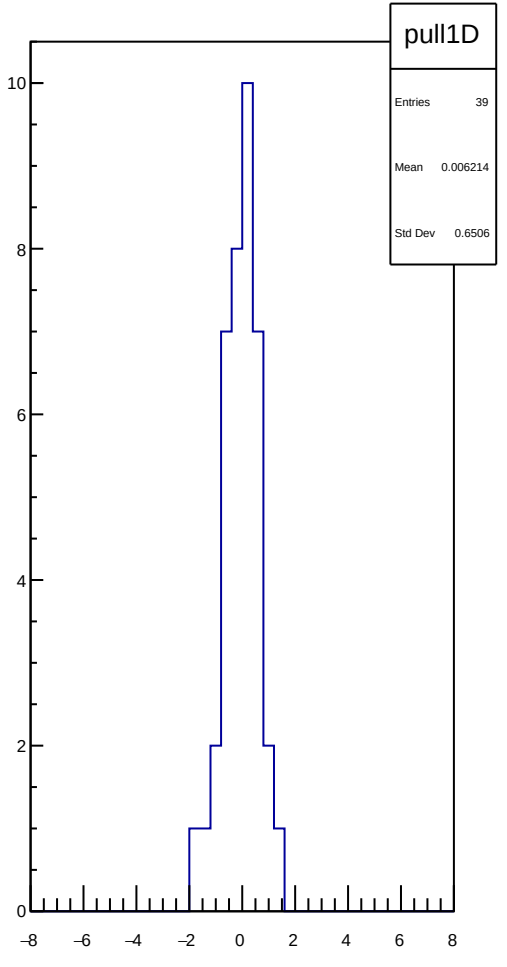

asym_bcm0l02_rms vs run
χ² / ndf 2102 / 38
p0 210.7 ± 0.2445
230
220
210
200
190
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

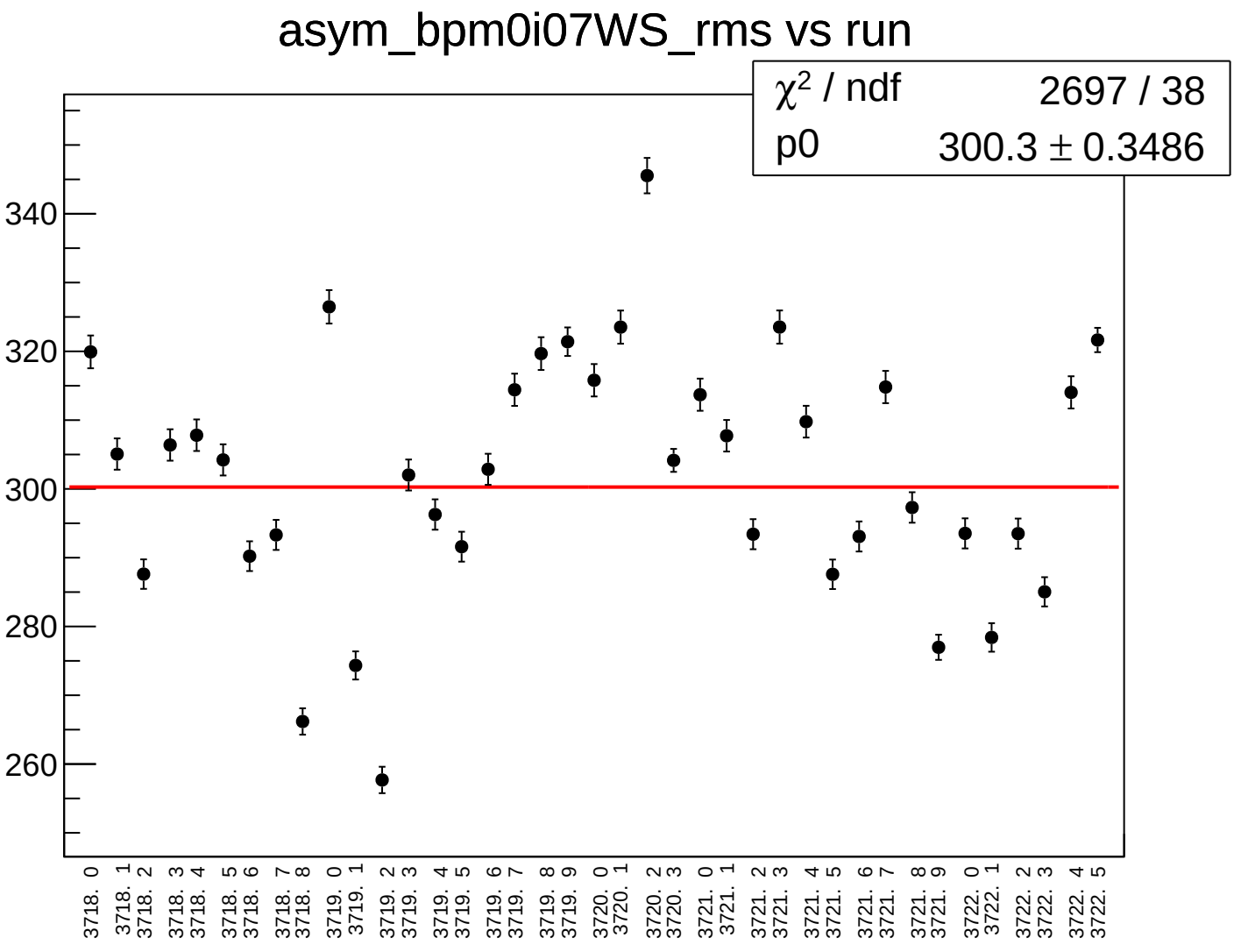

asym_bpm2i01WS_mean vs run
χ^2 / ndf 909.8 / 38
p0 1634 ± 179.5
15000
10000
5000
0
−5000
−10000
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 419.6
Std Dev 402.8
12
10
8
6
4
2
0
−2
−4
−6
−8

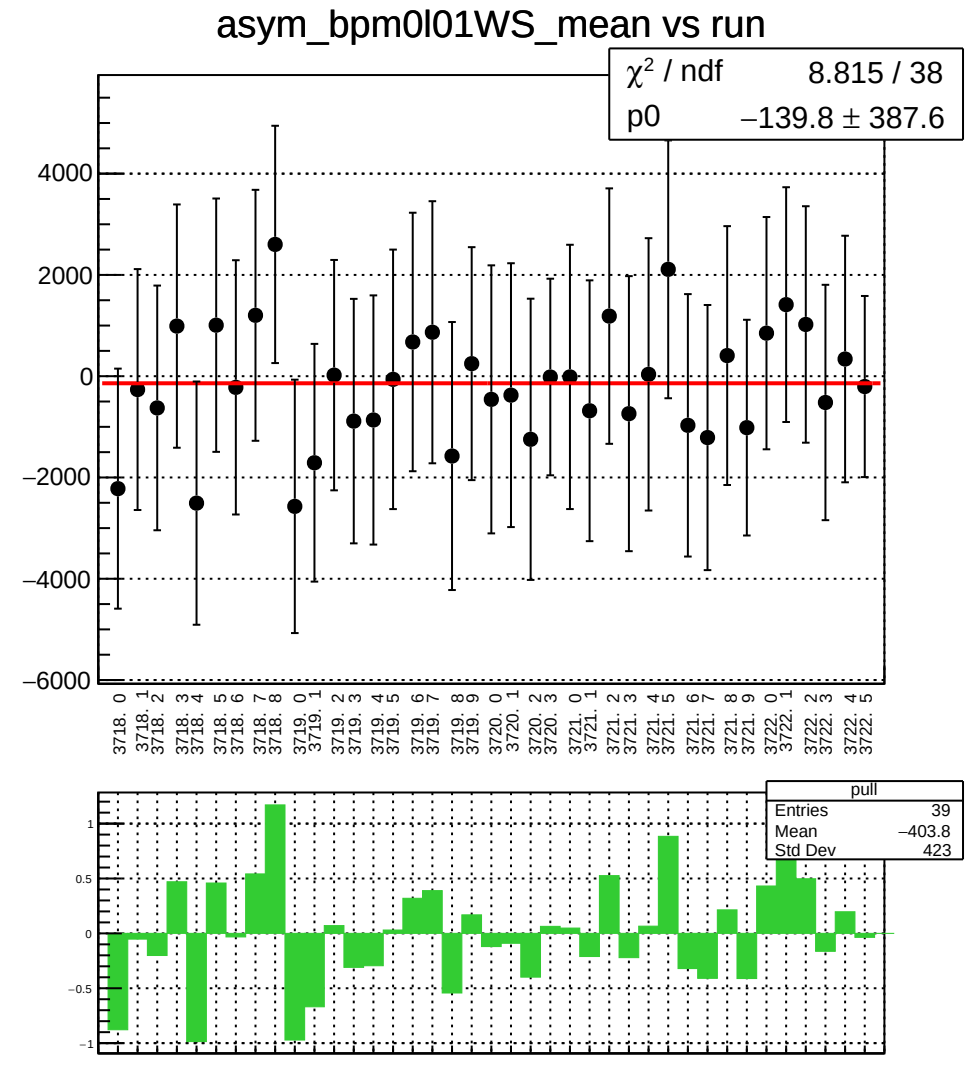

pull1D
Entries 39
Mean −0.6821
Std Dev 4.218
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

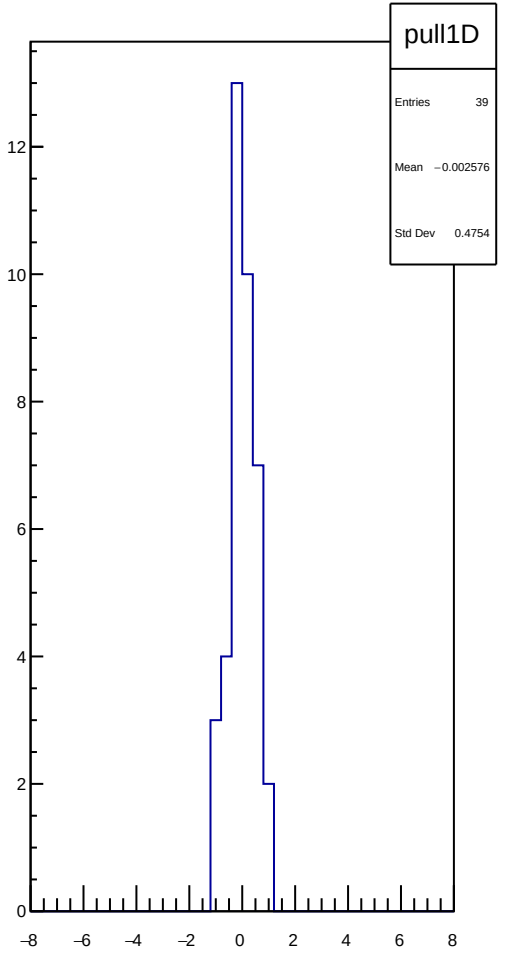

asym_bpm2i01WS_rms vs run
χ² / ndf 7782 / 38
p0 109 ± 0.1269
140
130
120
110
100
90
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

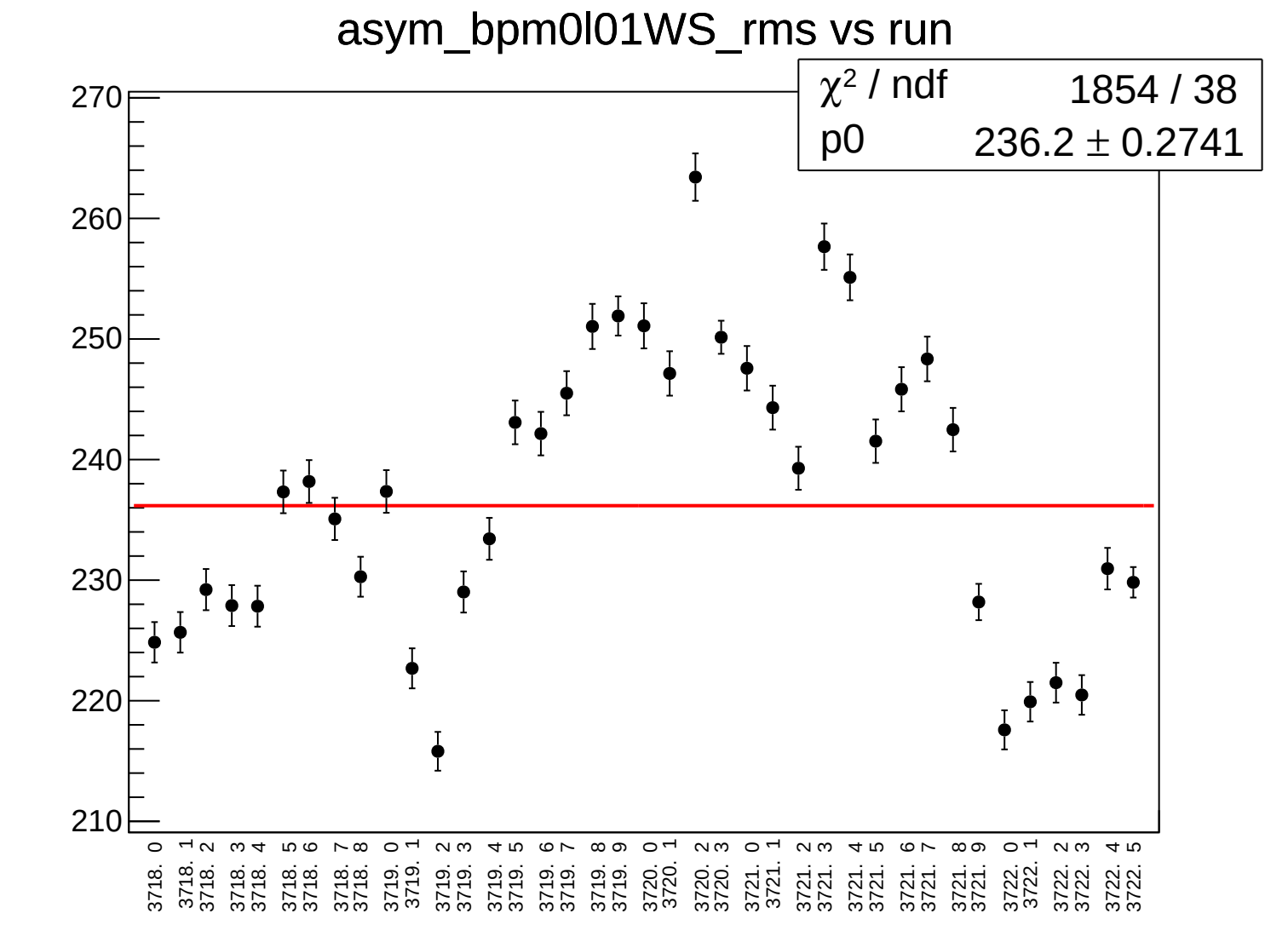

asym_bpm0i07WS_mean vs run
χ² / ndf 16.51 / 38
p0 −103.6 ± 493
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −164.3
Std Dev 188.1
1
0.5
0
−0.5
−1
−1.5
−2

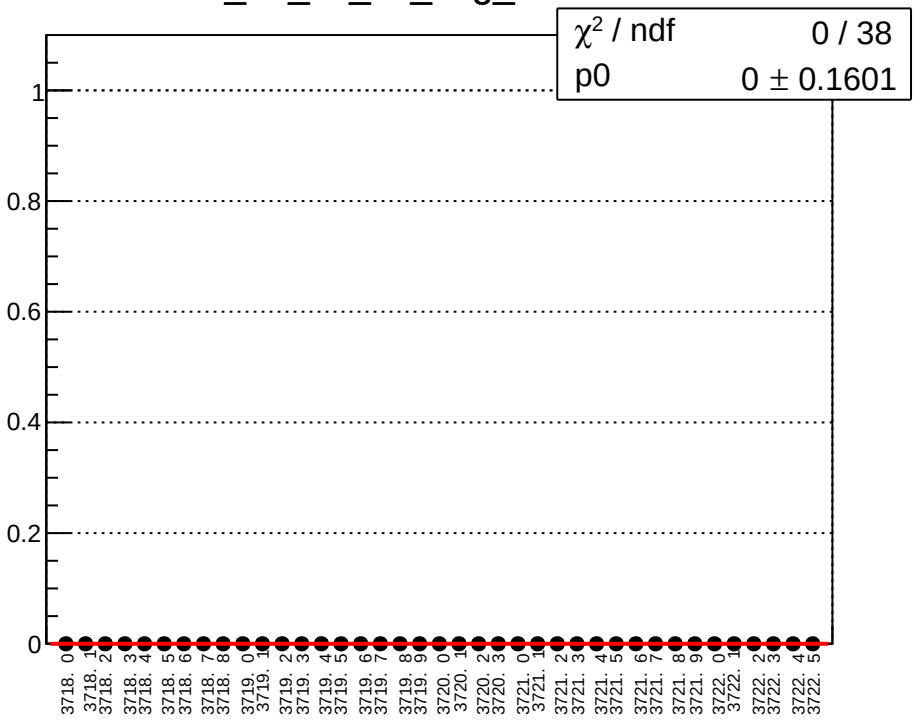

pull1D
Entries 39
Mean 0.006214
Std Dev 0.6506
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

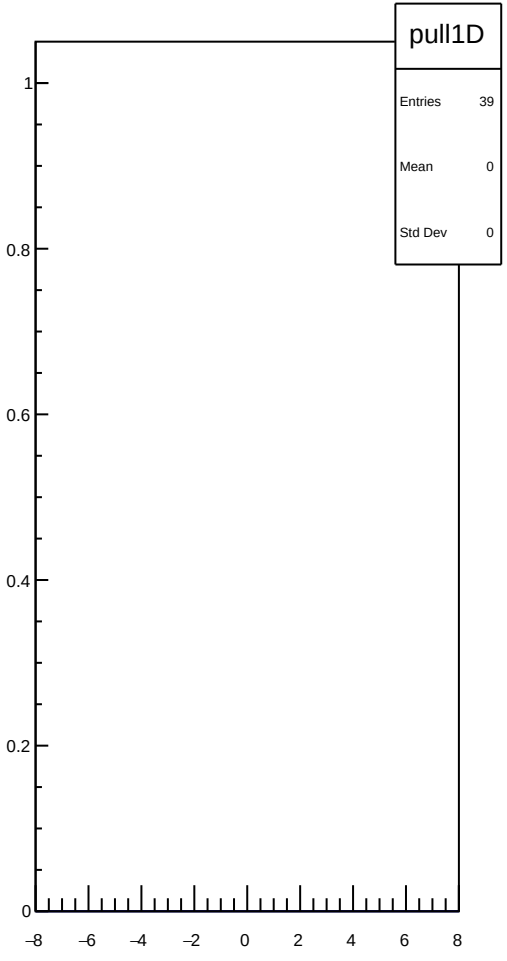

asym_bpm0i07WS_rms vs run
χ² / ndf 2697 / 38
p0 300.3 ± 0.3486
340
320
300
280
260
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

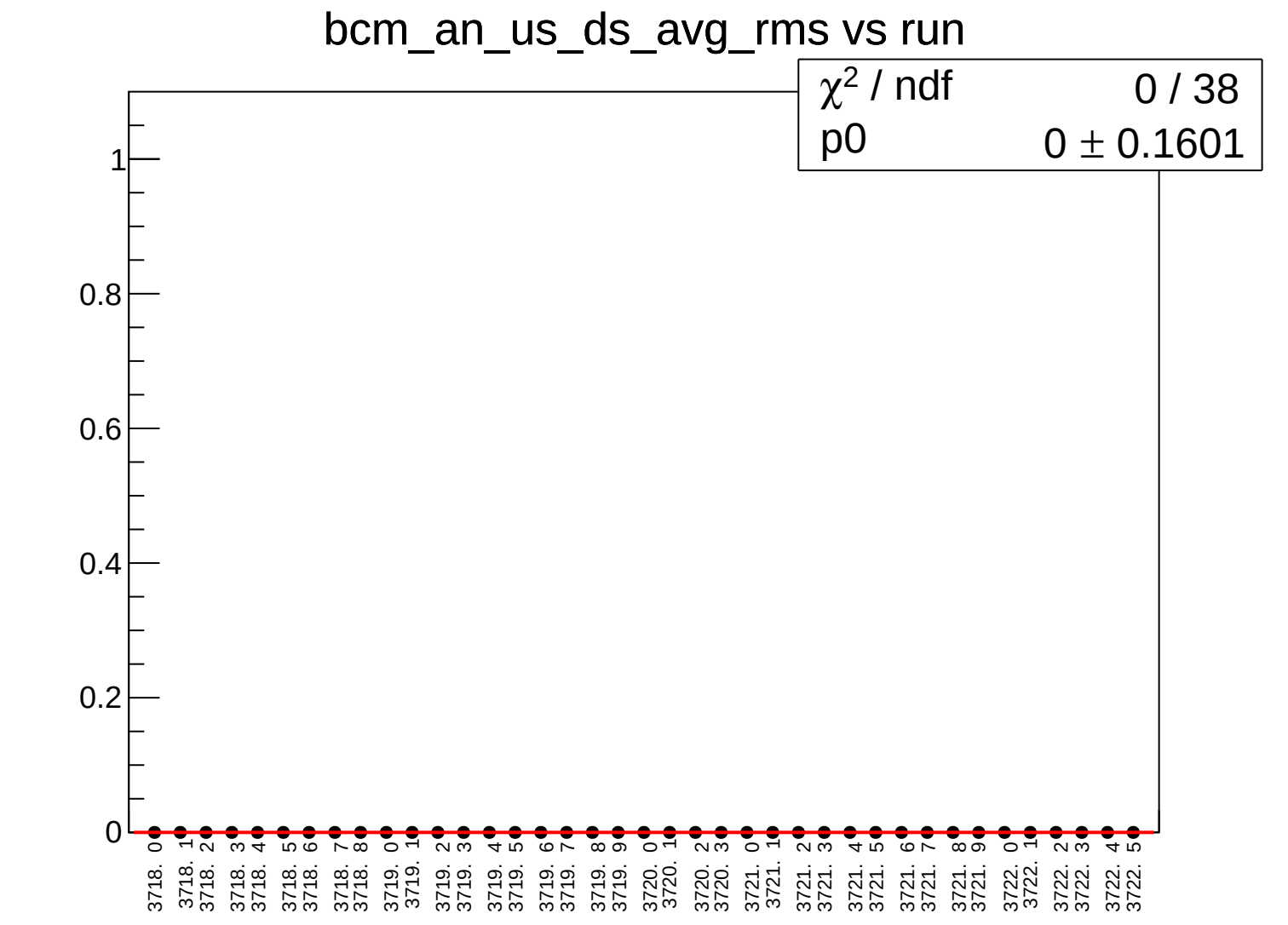

asym_bpm0l01WS_mean vs run
χ² / ndf 8.815 / 38
p0 −139.8 ± 387.6
4000
2000
0
−2000
−4000
−6000
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −403.8
Std Dev 423
1
0.5
0
−0.5
−1

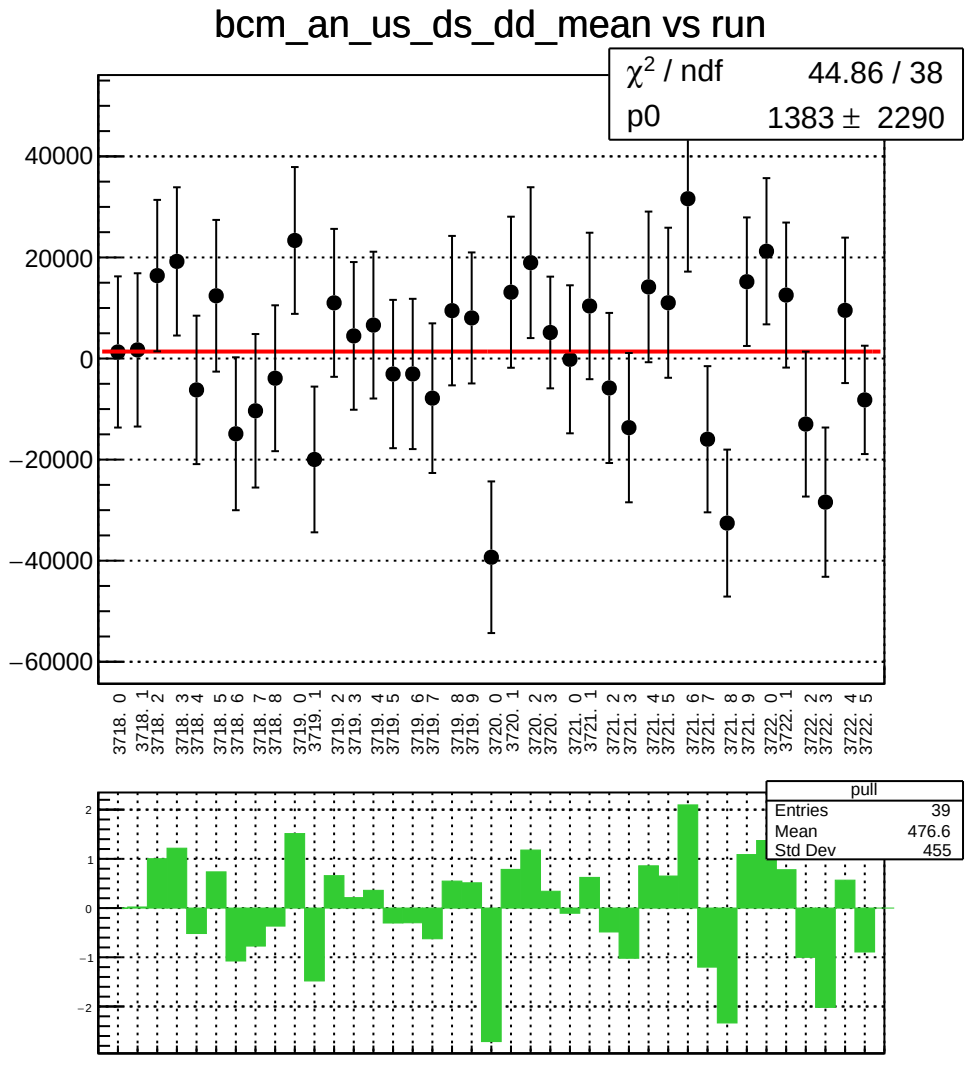

pull1D
Entries 39
Mean −0.002576
Std Dev 0.4754
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

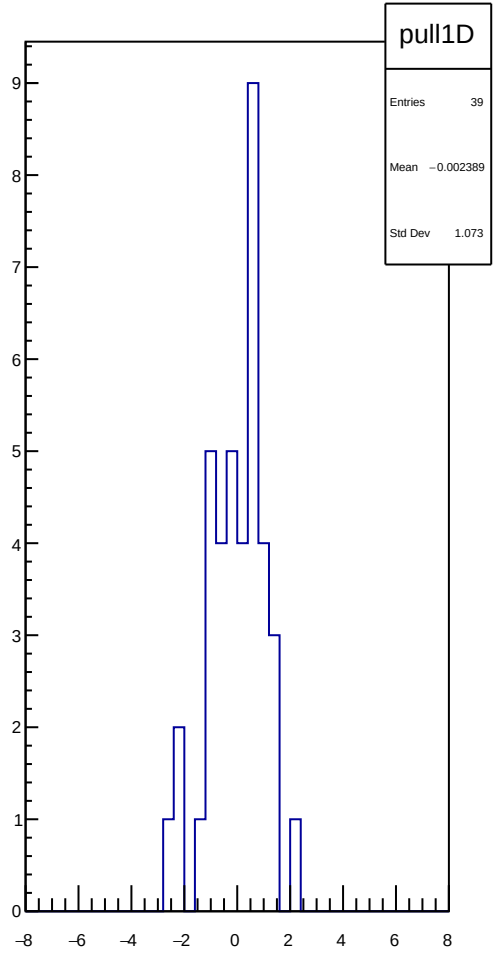

asym_bpm0l01WS_rms vs run
χ² / ndf 1854 / 38
p0 236.2 ± 0.2741
270
260
250
240
230
220
210
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

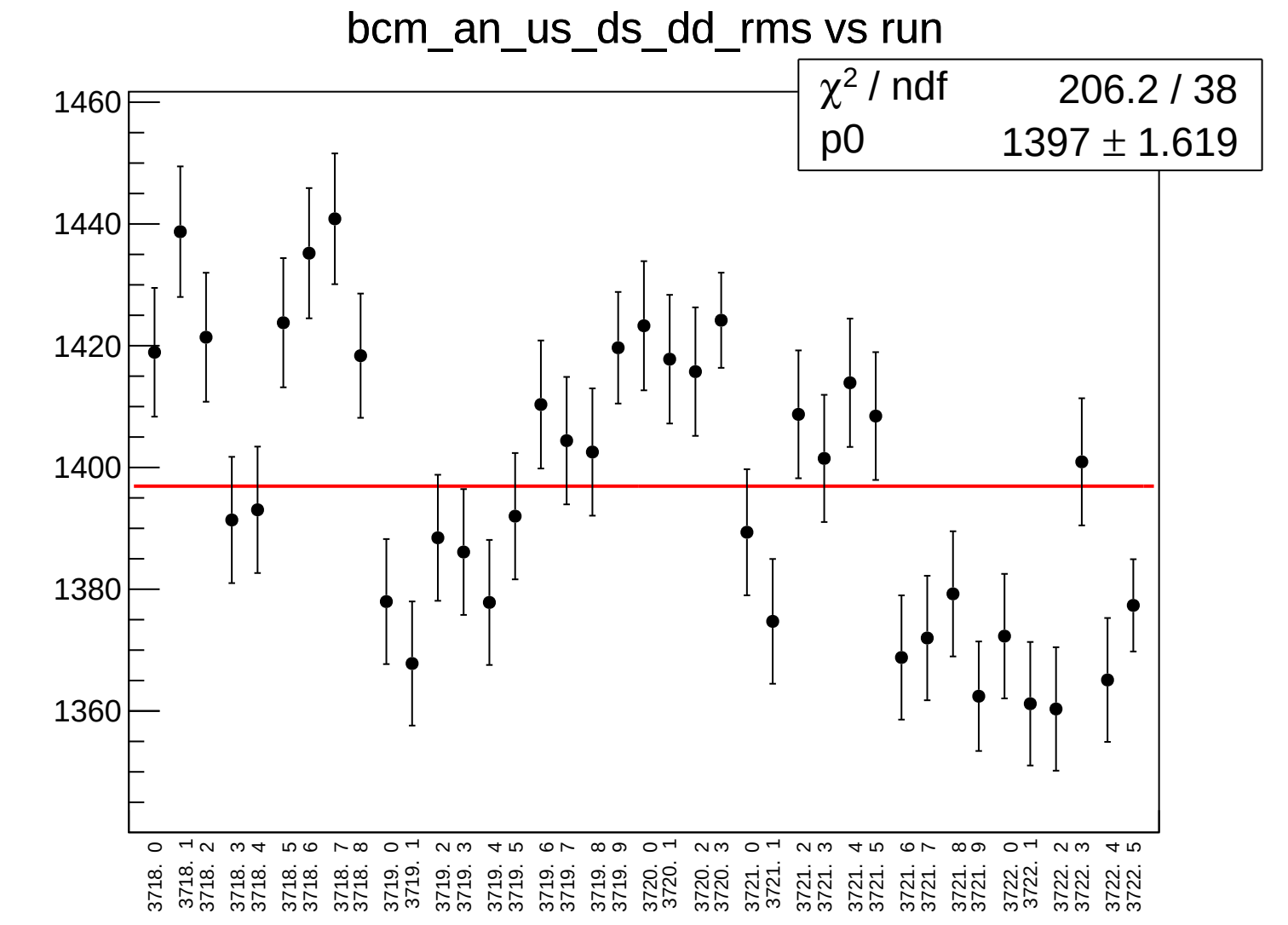

bcm_an_us_ds_avg_mean vs run
χ² / ndf 0 / 38
p0 0 ± 0.1601
1
0.8
0.6
0.4
0.2
0
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

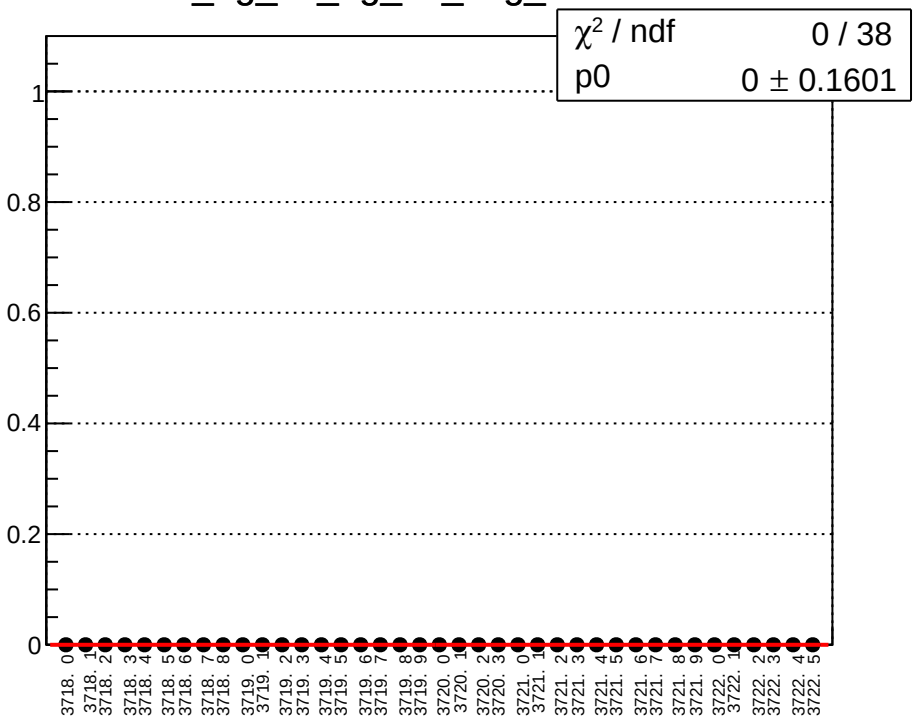

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

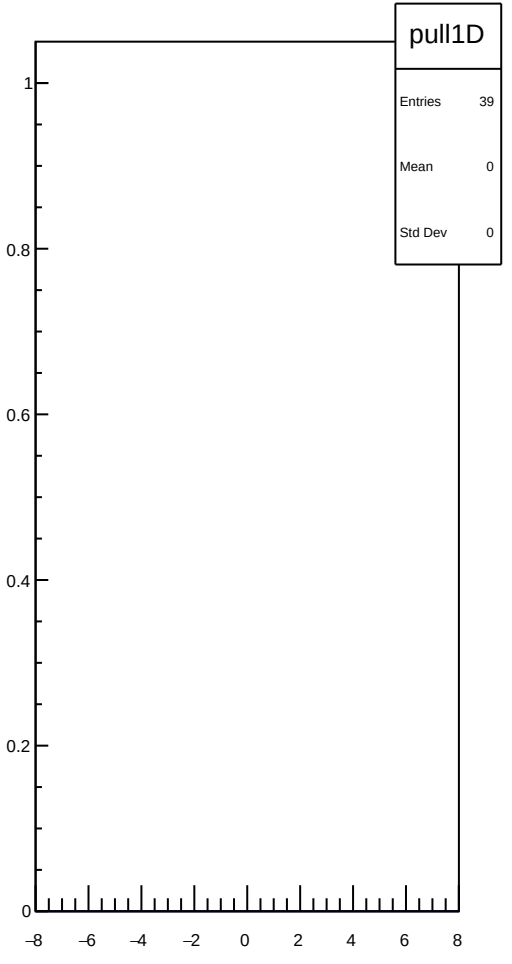

bcm_an_us_ds_avg_rms vs run
χ² / ndf 0 / 38
p0 0 ± 0.1601
1
0.8
0.6
0.4
0.2
0
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

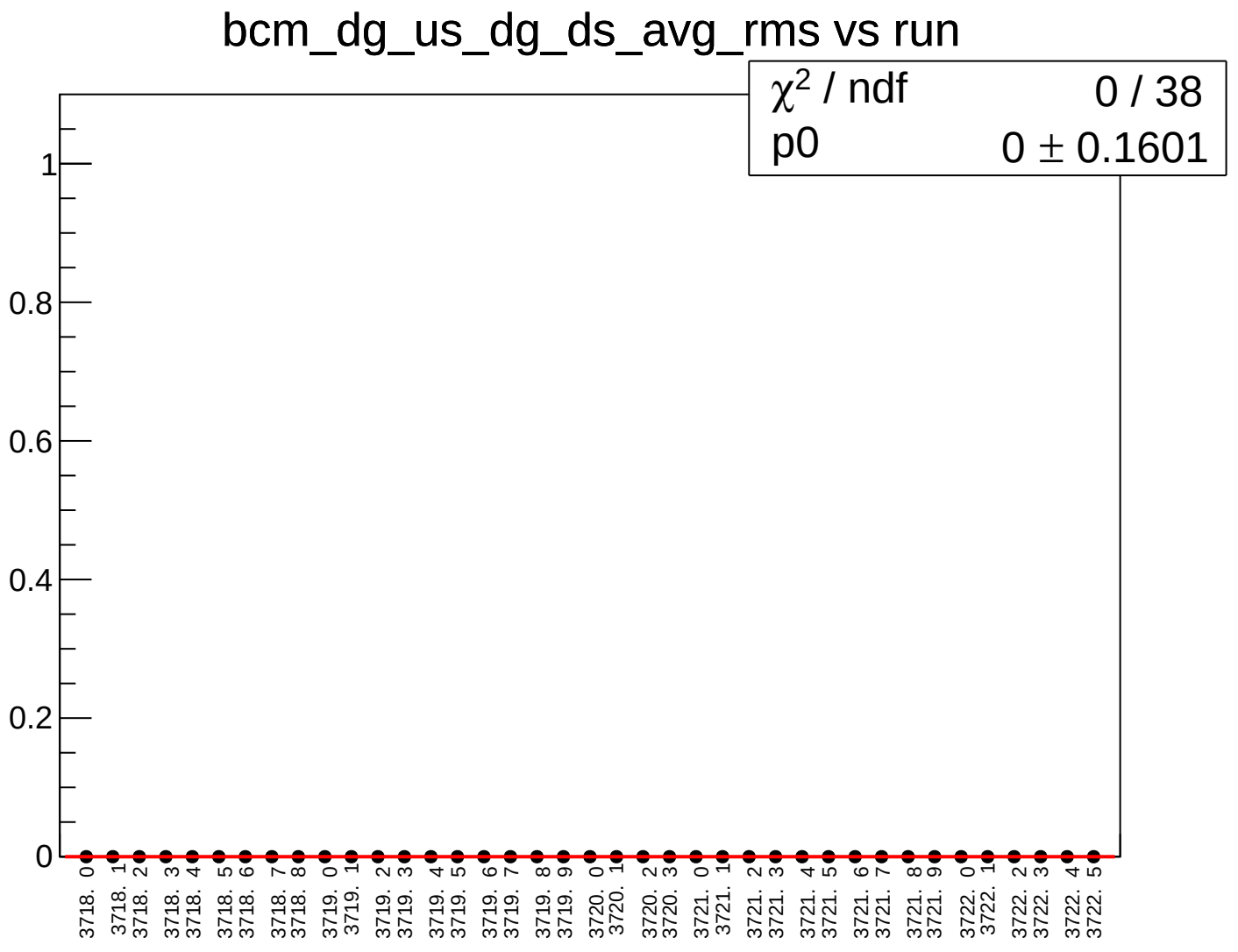

bcm_an_us_ds_dd_mean vs run
χ² / ndf 44.86 / 38
p0 1383 ± 2290
40000
20000
0
−20000
−40000
−60000
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 476.6
Std Dev 455
2
1
0
−1
−2

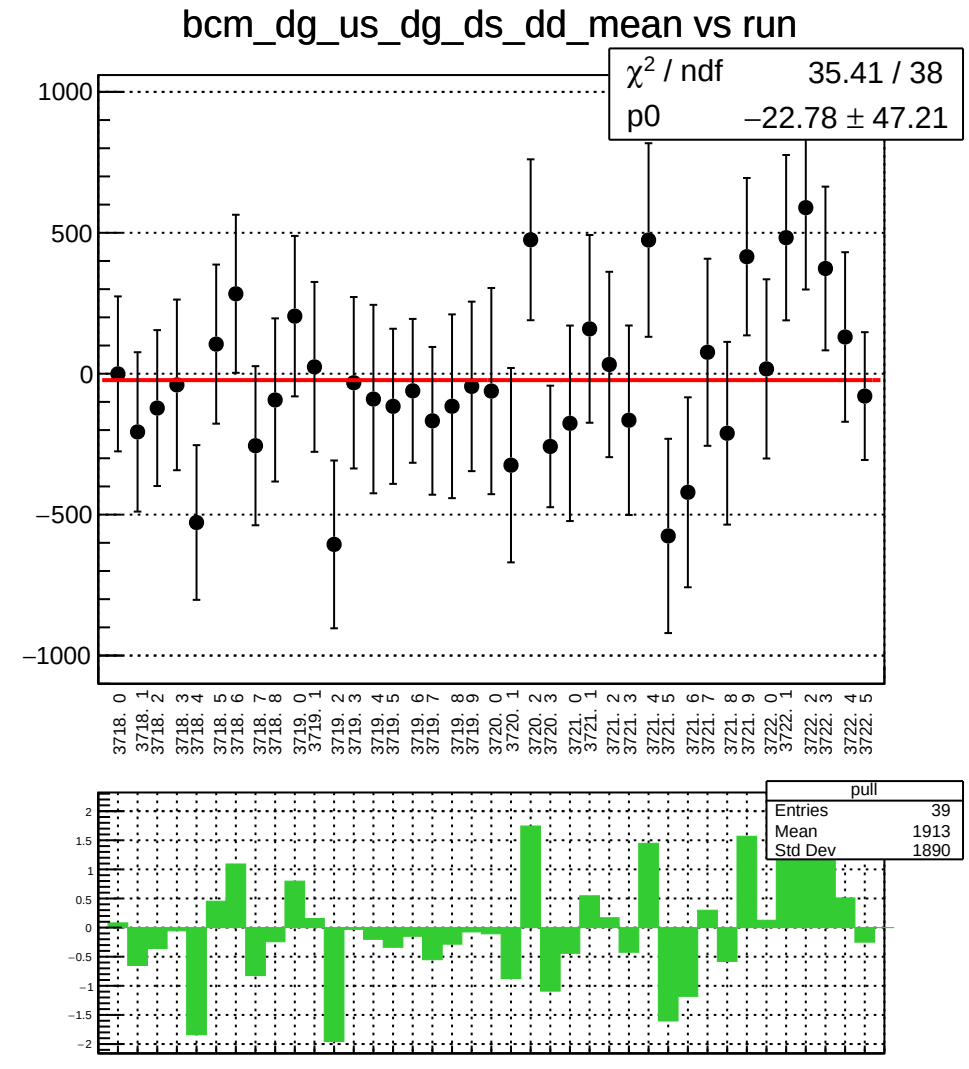

pull1D
Entries 39
Mean −0.002389
Std Dev 1.073
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

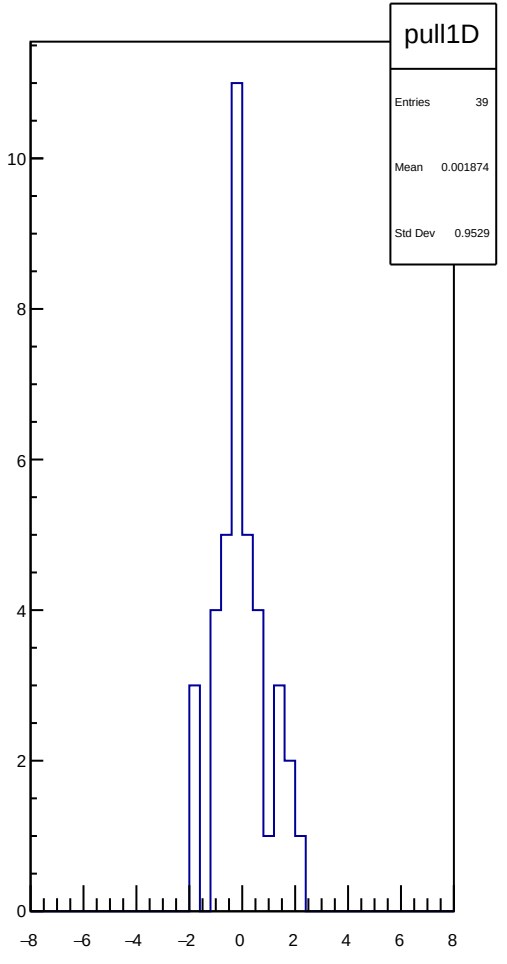

bcm_an_us_ds_dd_rms vs run
χ² / ndf 206.2 / 38
p0 1397 ± 1.619
1460
1440
1420
1400
1380
1360
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

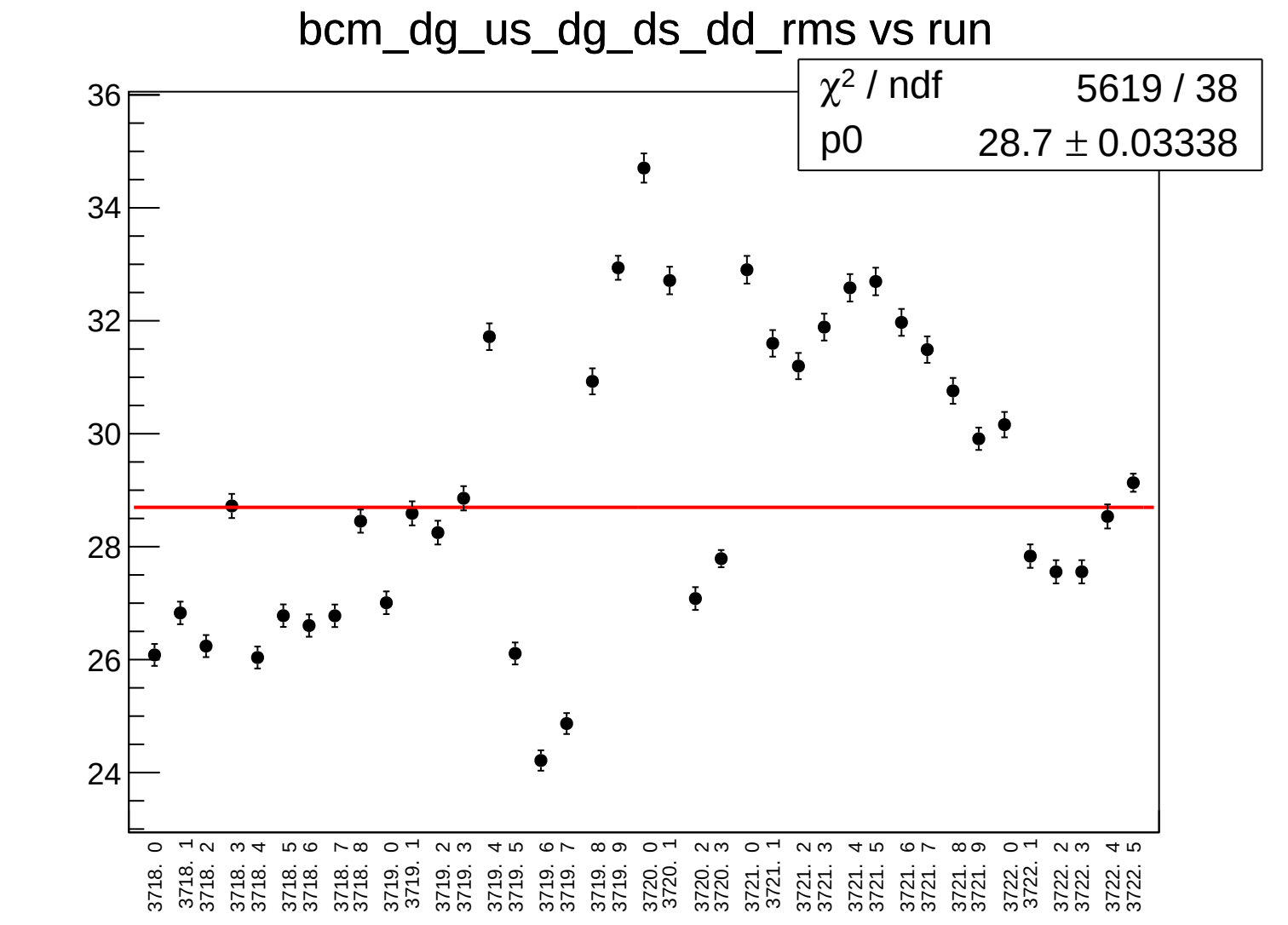

bcm_dg_us_dg_ds_avg_mean vs run
χ² / ndf 0 / 38
p0 0 ± 0.1601
1
0.8
0.6
0.4
0.2
0
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

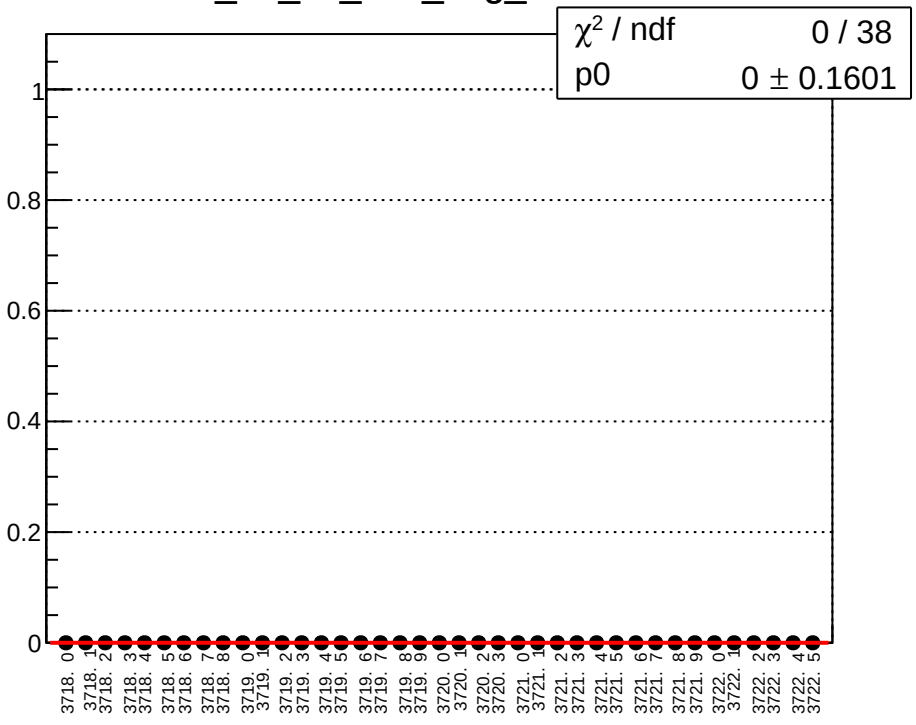

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

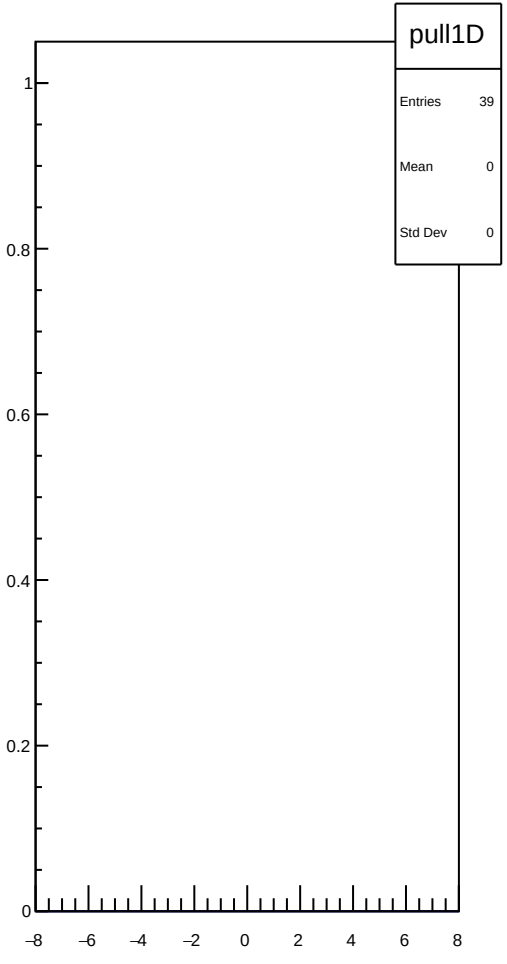

bcm_dg_us_dg_ds_avg_rms vs run
χ² / ndf 0 / 38
p0 0 ± 0.1601
1
0.8
0.6
0.4
0.2
0
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

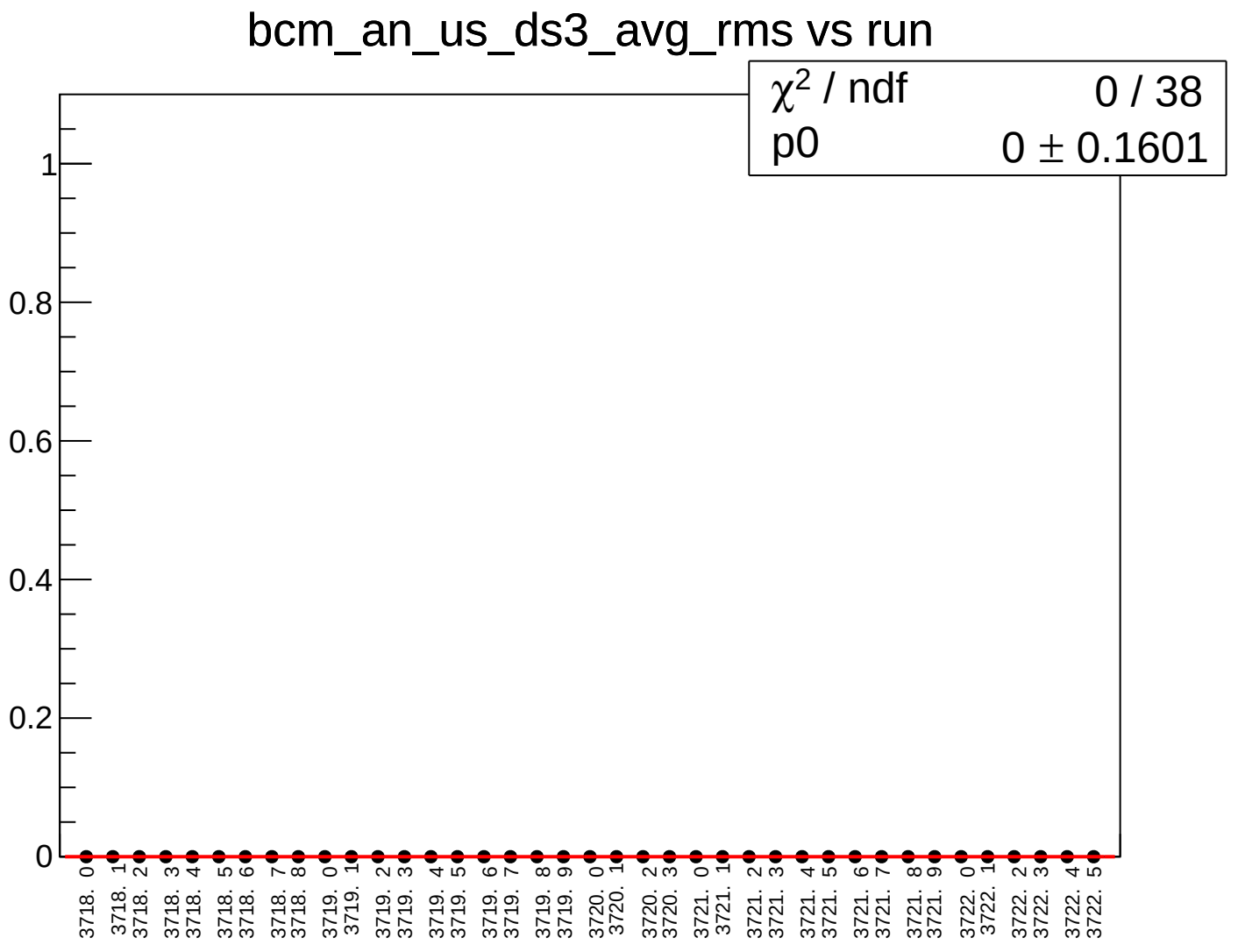

bcm_dg_us_dg_ds_dd_mean vs run
χ² / ndf 35.41 / 38
p0 −22.78 ± 47.21
1000
500
0
−500
−1000
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 1913
Std Dev 1890
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

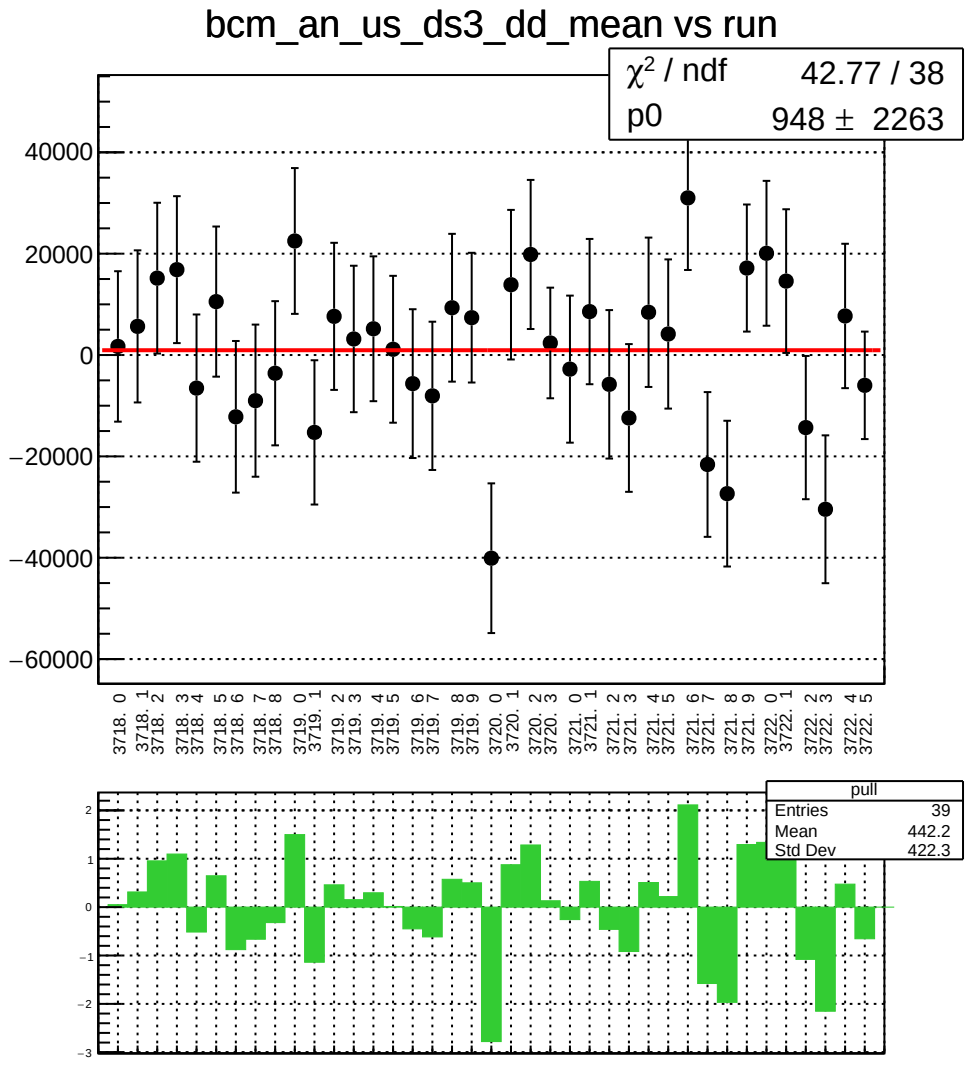

pull1D
Entries 39
Mean 0.001874
Std Dev 0.9529
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

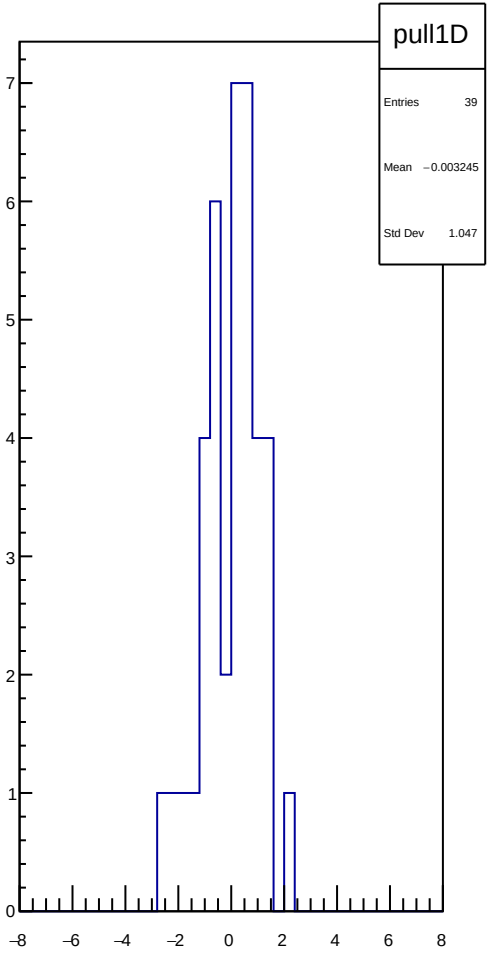

bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 5619 / 38
p0 28.7 ± 0.03338
36
34
32
30
28
26
24
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

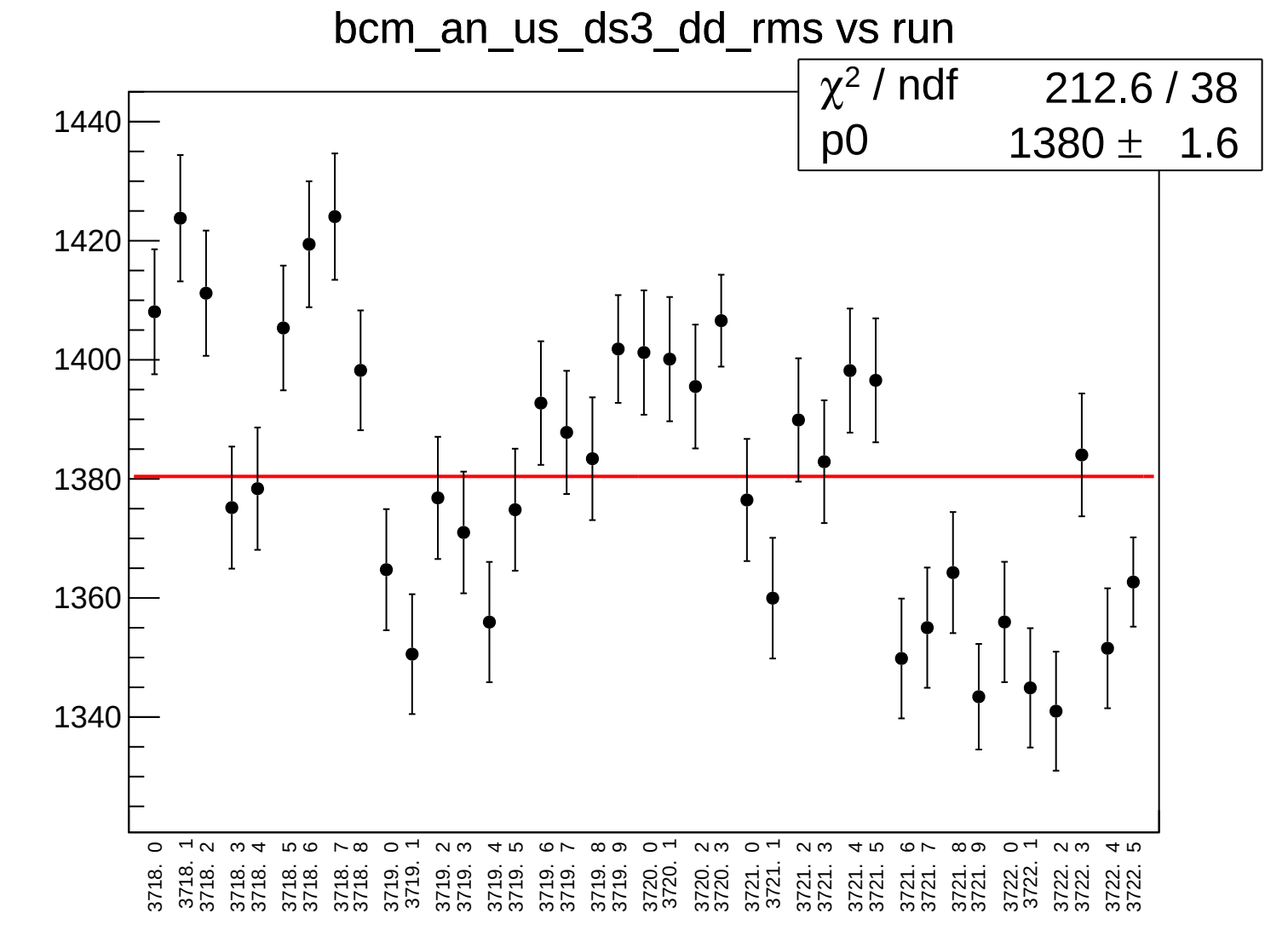

bcm_an_us_ds3_avg_mean vs run
χ² / ndf 0 / 38
p0 0 ± 0.1601
1
0.8
0.6
0.4
0.2
0
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

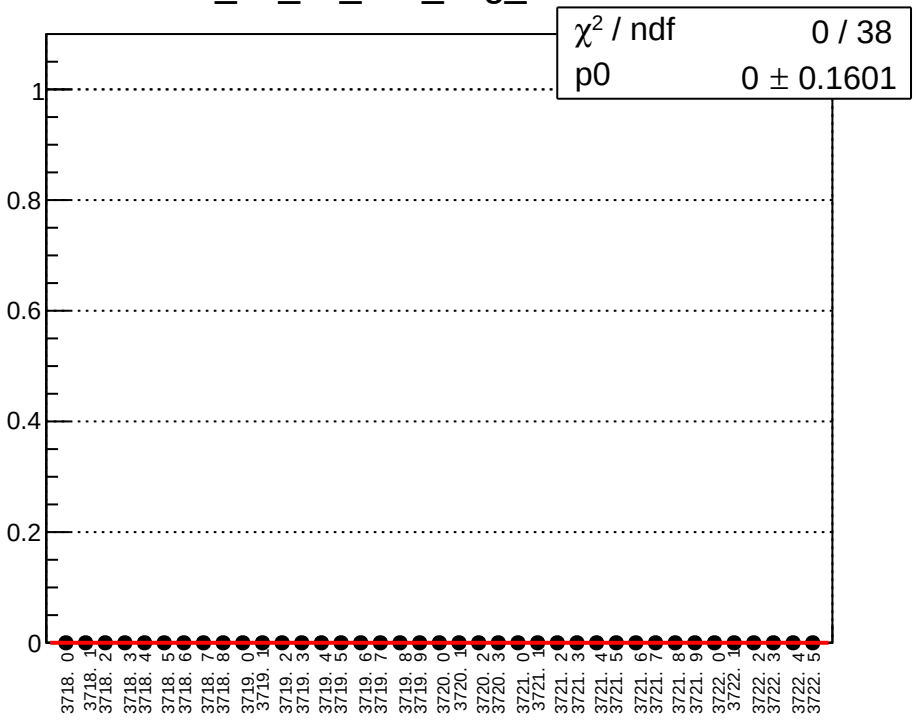

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8


bcm_an_us_ds3_avg_rms vs run
χ² / ndf 0 / 38
p0 0 ± 0.1601
1
0.8
0.6
0.4
0.2
0
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5


bcm_an_us_ds3_dd_mean vs run
χ² / ndf 42.77 / 38
p0 948 ± 2263
40000
20000
0
−20000
−40000
−60000
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 442.2
Std Dev 422.3
2
1
0
−1
−2
−3


pull1D
Entries 39
Mean −0.003245
Std Dev 1.047
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


bcm_an_us_ds3_dd_rms vs run
χ² / ndf 212.6 / 38
p0 1380 ± 1.6
1440
1420
1400
1380
1360
1340
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5


bcm_an_ds_ds3_avg_mean vs run
χ² / ndf 0 / 38
p0 0 ± 0.1601
1
0.8
0.6
0.4
0.2
0
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
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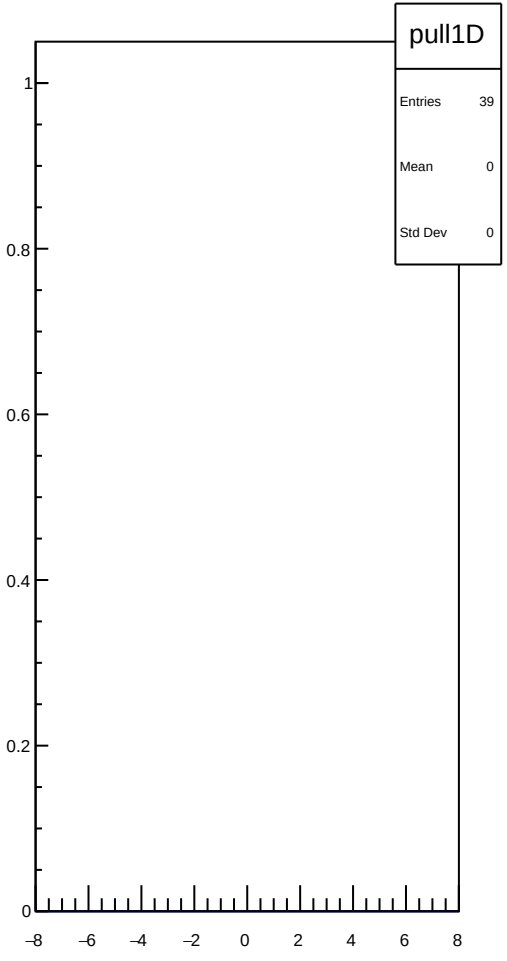
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5


pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
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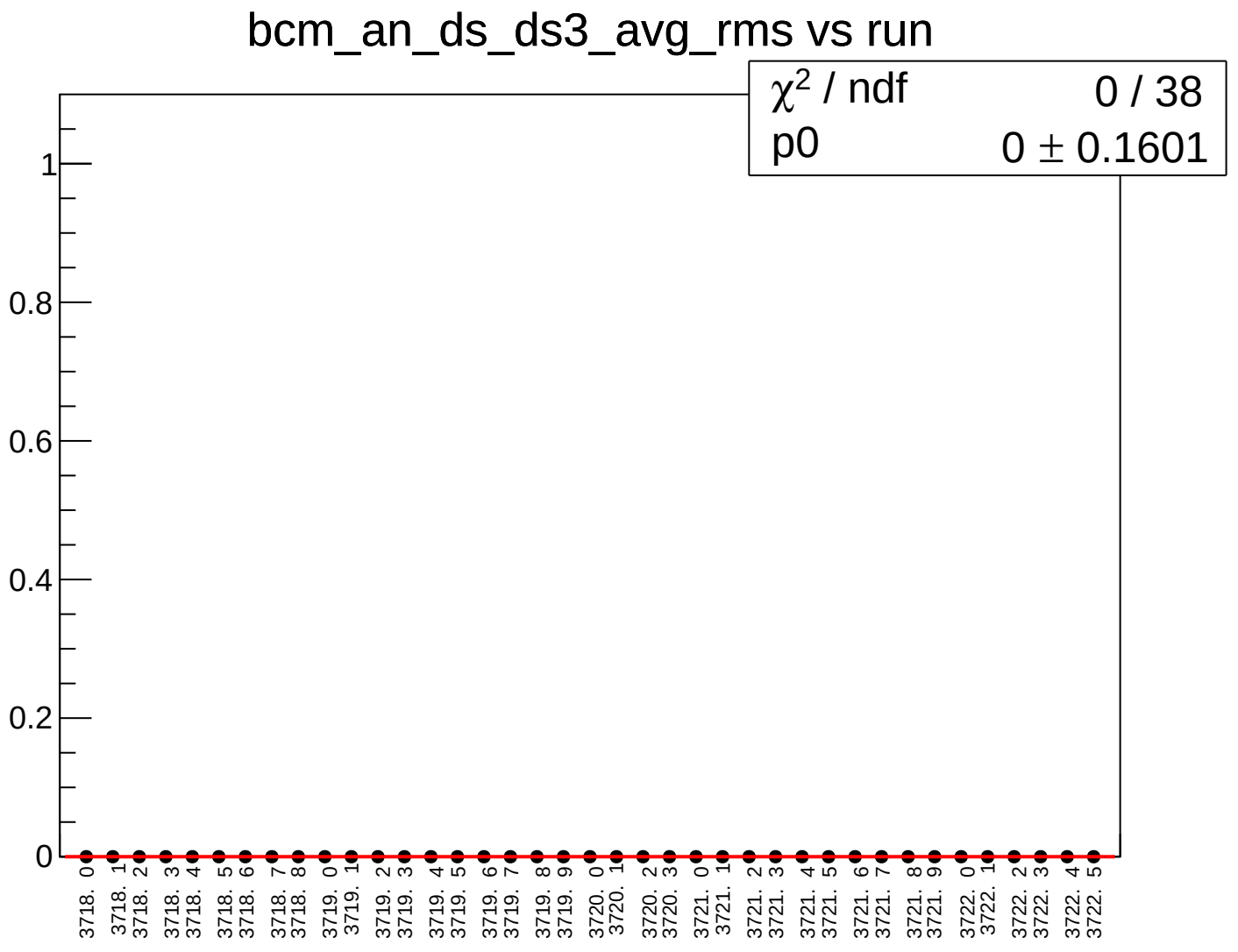
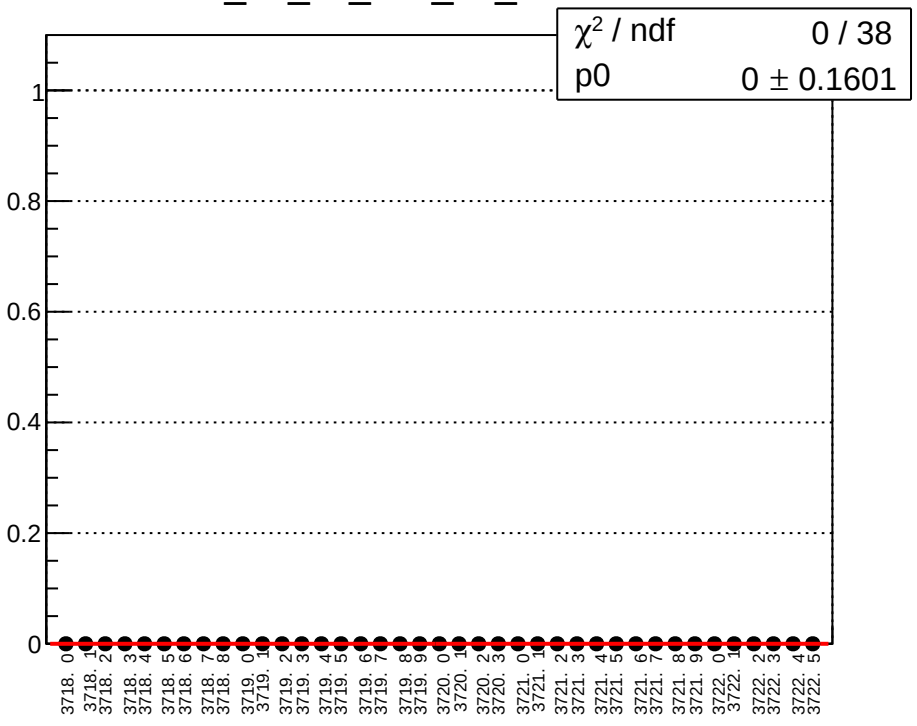
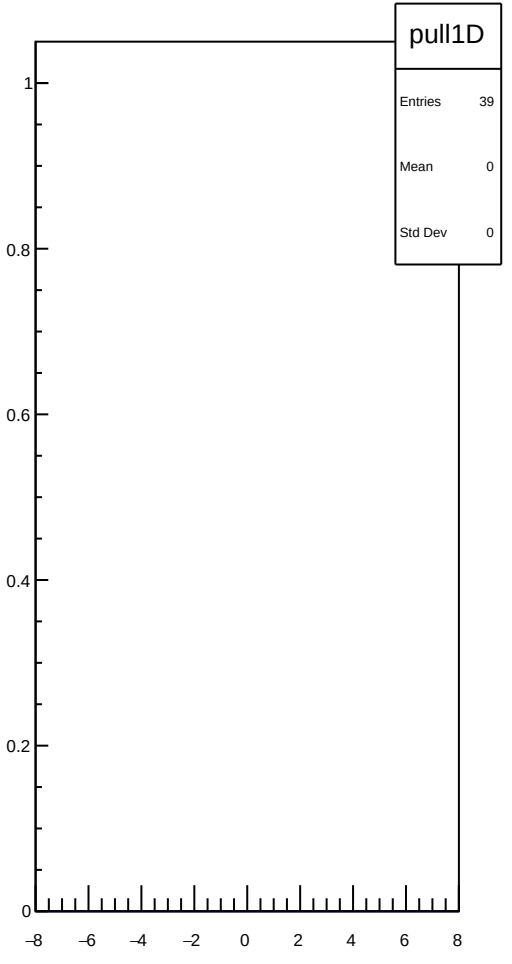
2
4
6
8


bcm_an_ds_ds3_avg_rms vs run
χ^2 / ndf 0 / 38
p0 0 ± 0.1601
1
0.8
0.6
0.4
0.2
0
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5


bcm_an_ds_ds3_dd_mean vs run
χ² / ndf 0 / 38
p0 0 ± 0.1601
1
0.8
0.6
0.4
0.2
0
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5


pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
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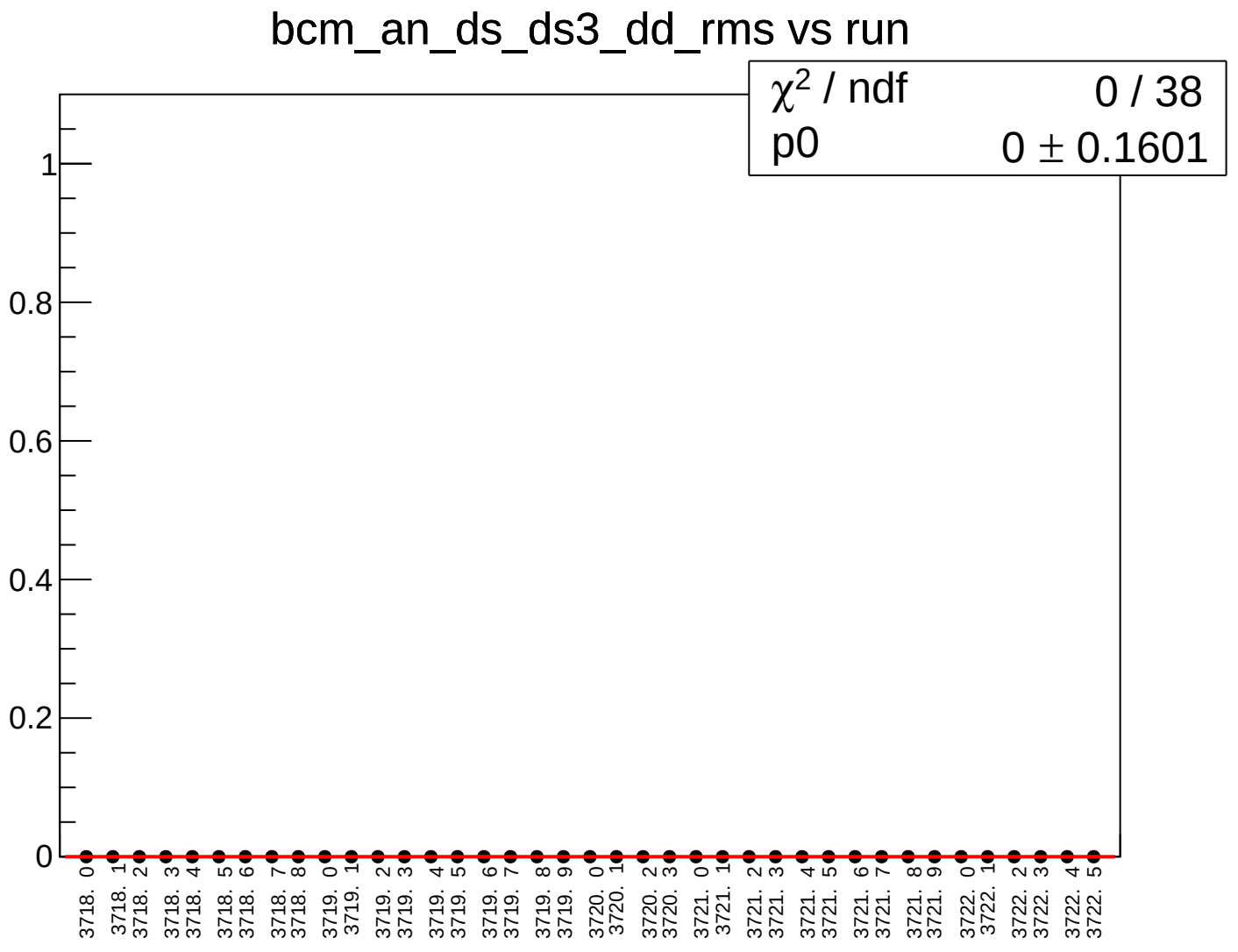
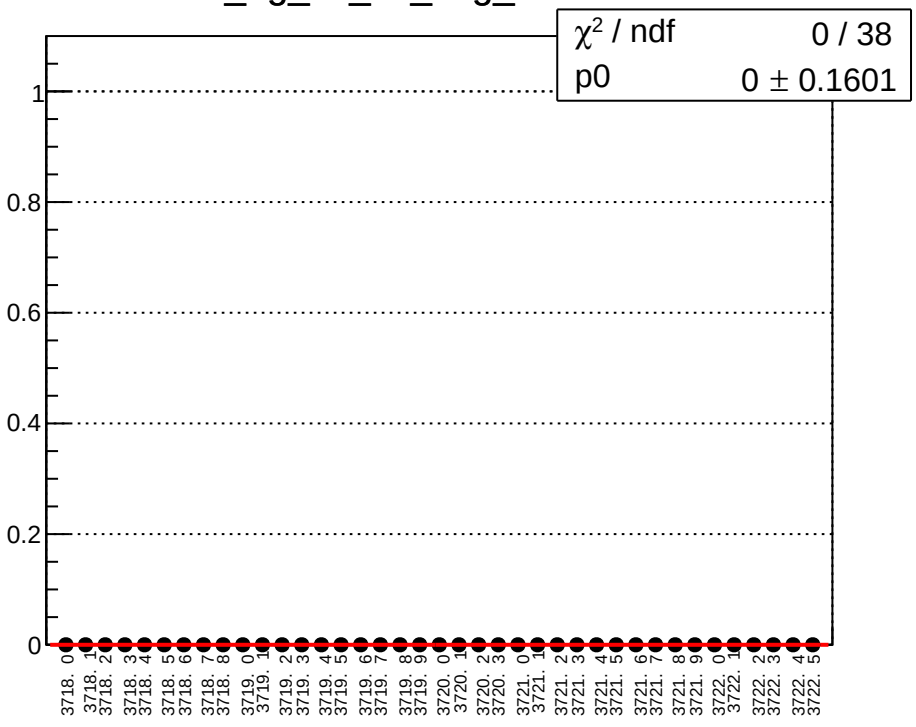
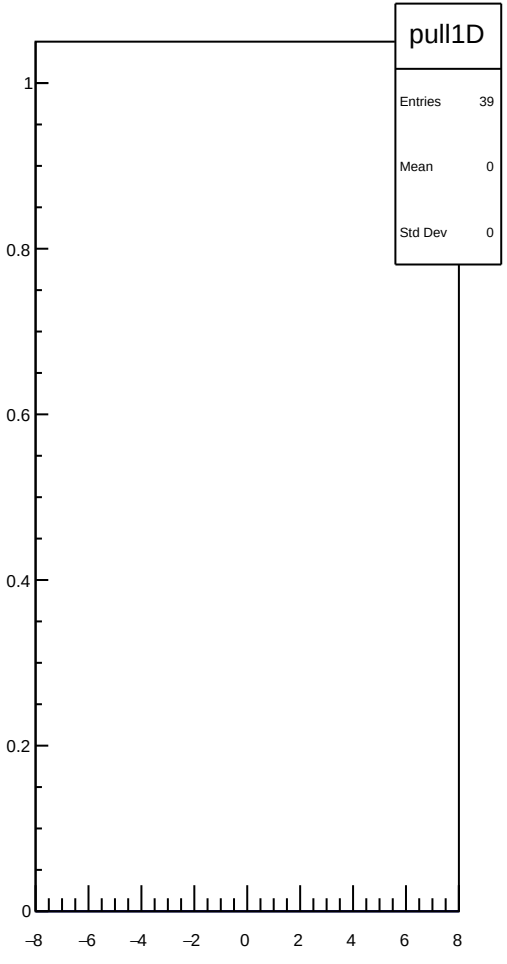
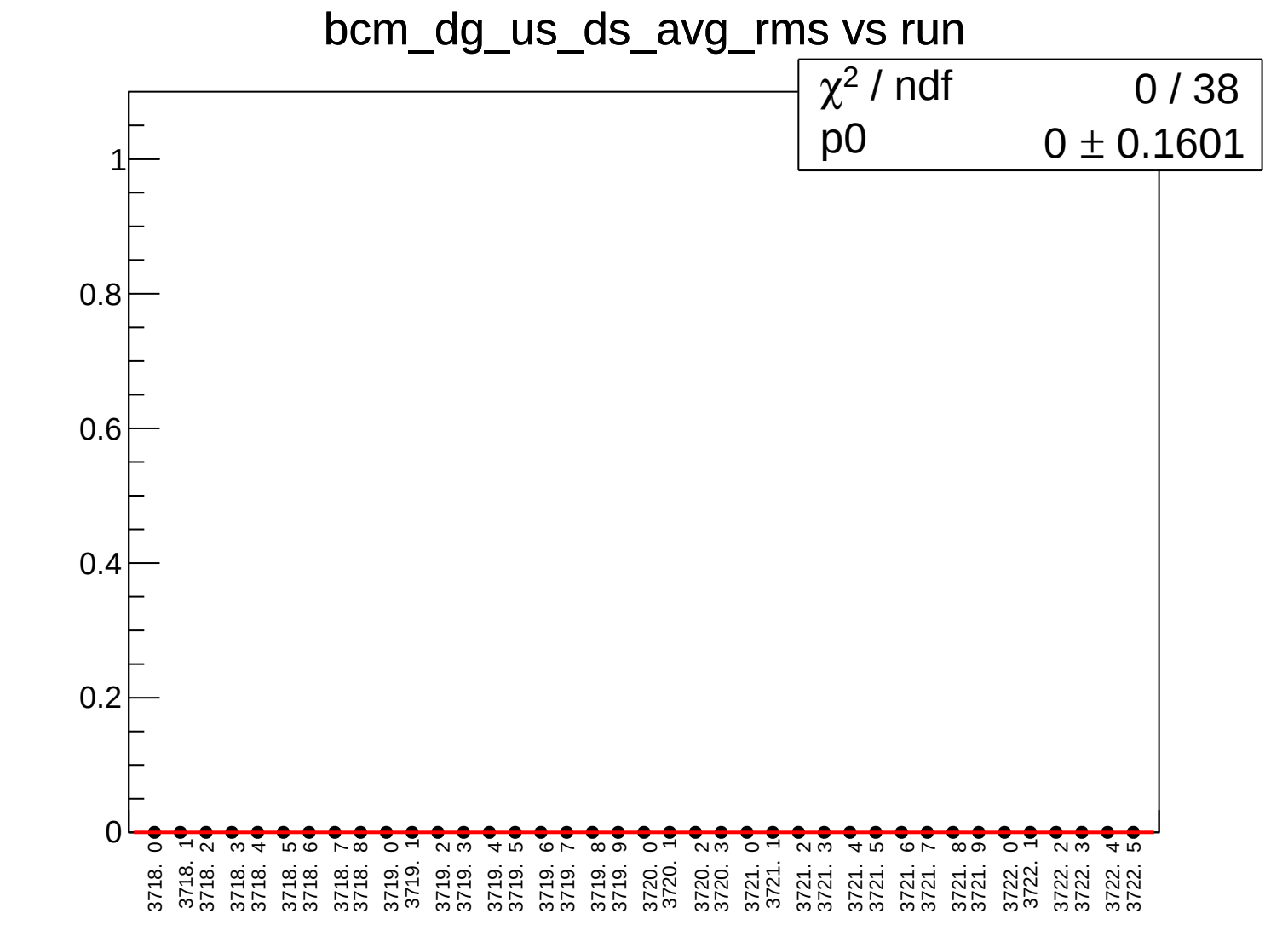
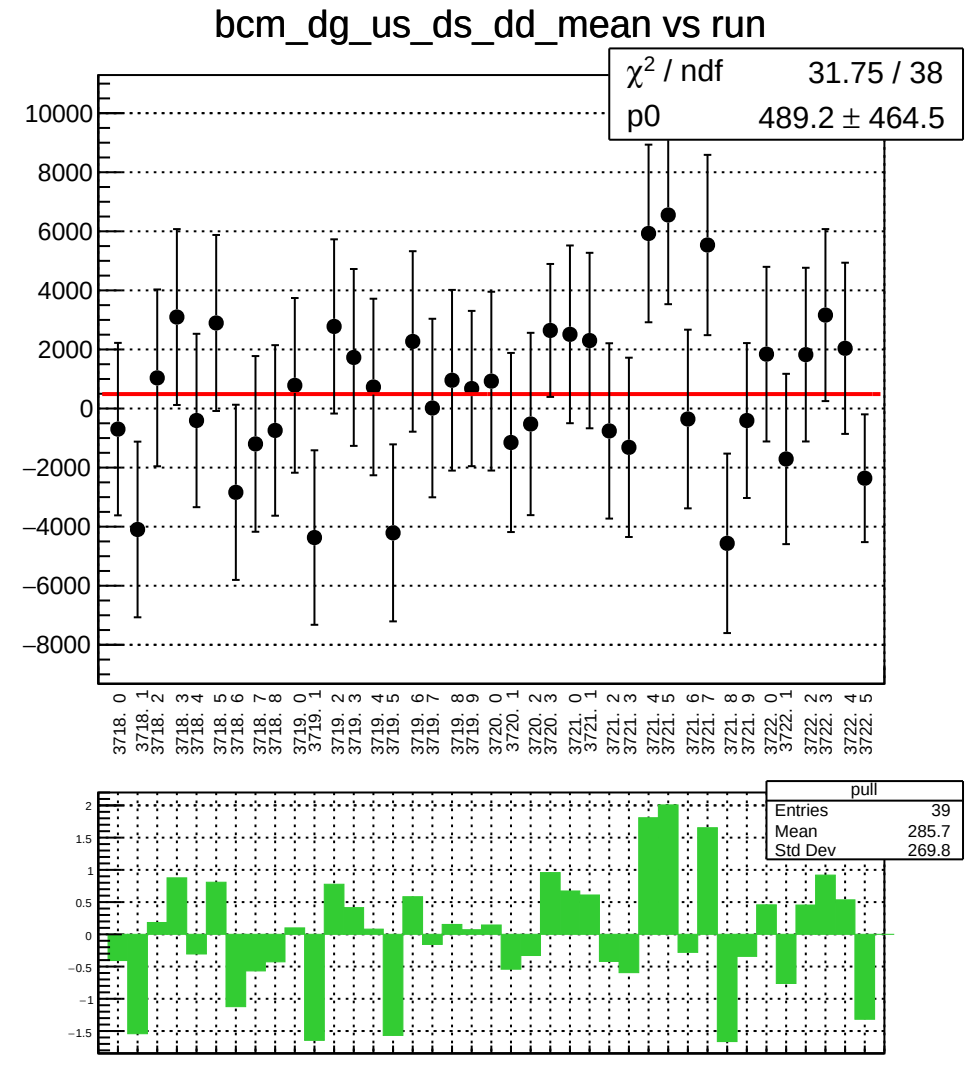
2
4
6
8

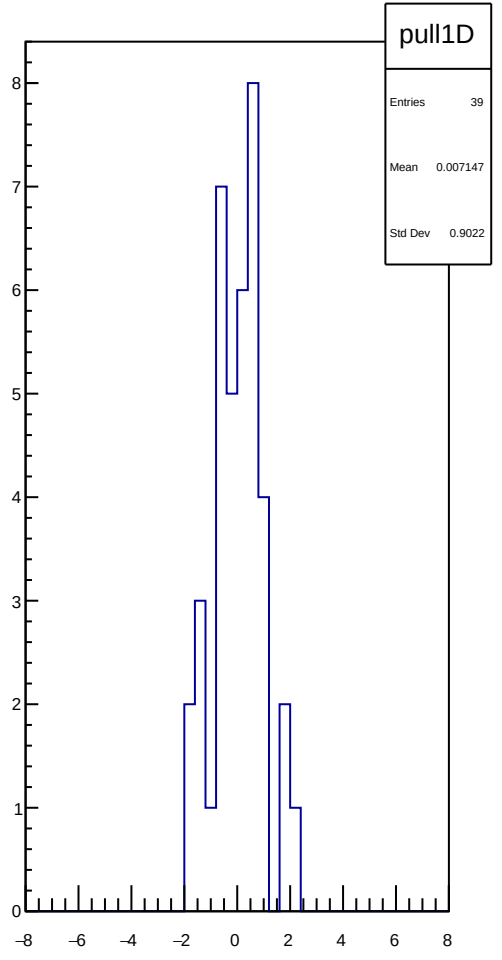

bcm_an_ds_ds3_dd_rms vs run
χ² / ndf 0 / 38
p0 0 ± 0.1601
1
0.8
0.6
0.4
0.2
0
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

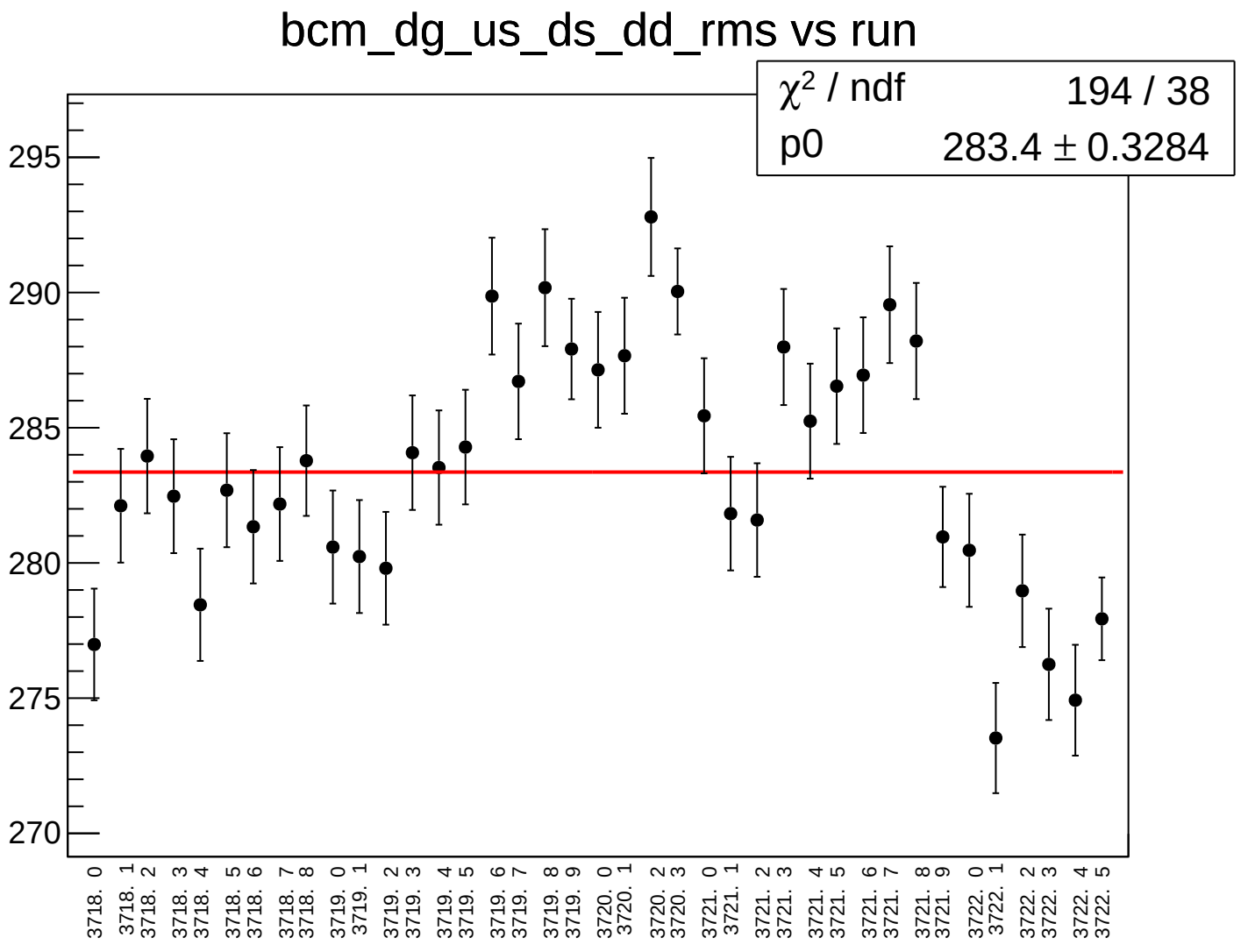

bcm_dg_us_ds_avg_mean vs run
χ² / ndf 0 / 38
p0 0 ± 0.1601
1
0.8
0.6
0.4
0.2
0
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

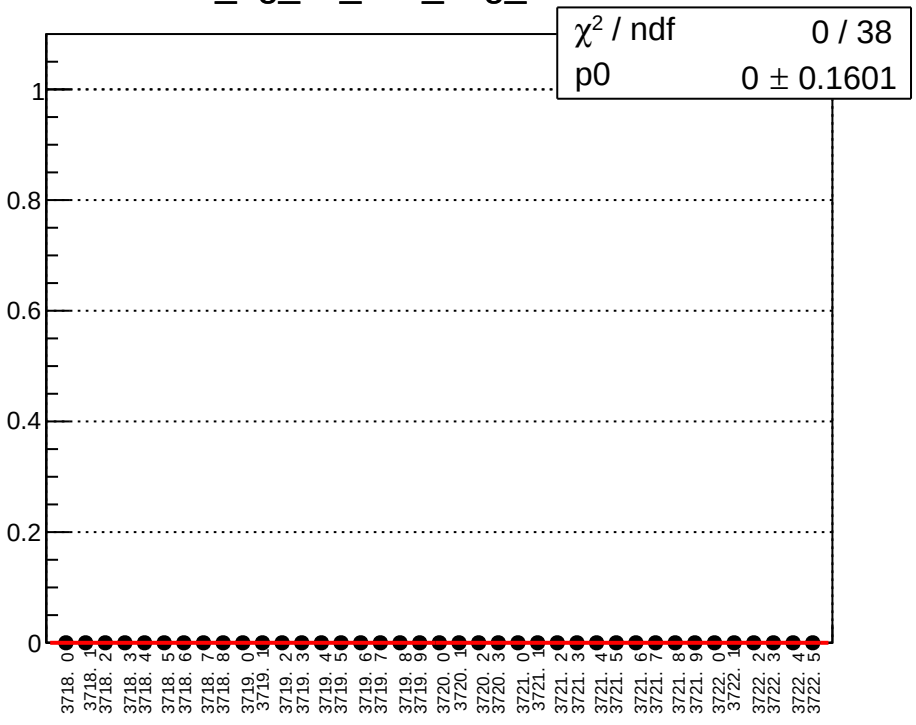

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8


bcm_dg_us_ds_avg_rms vs run
χ² / ndf 0 / 38
p0 0 ± 0.1601
1
0.8
0.6
0.4
0.2
0
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5


bcm_dg_us_ds_dd_mean vs run
χ^2 / ndf 31.75 / 38
p0 489.2 ± 464.5
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 285.7
Std Dev 269.8
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 39
Mean 0.007147
Std Dev 0.9022
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 194 / 38
p0 283.4 ± 0.3284
295
290
285
280
275
270
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5


bcm_dg_us_ds3_avg_mean vs run
χ² / ndf 0 / 38
p0 0 ± 0.1601
1
0.8
0.6
0.4
0.2
0
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
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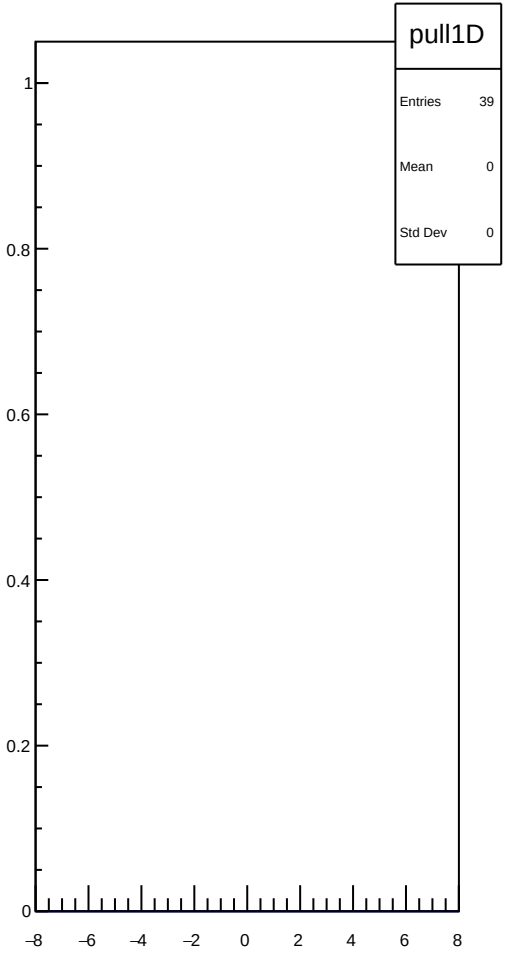
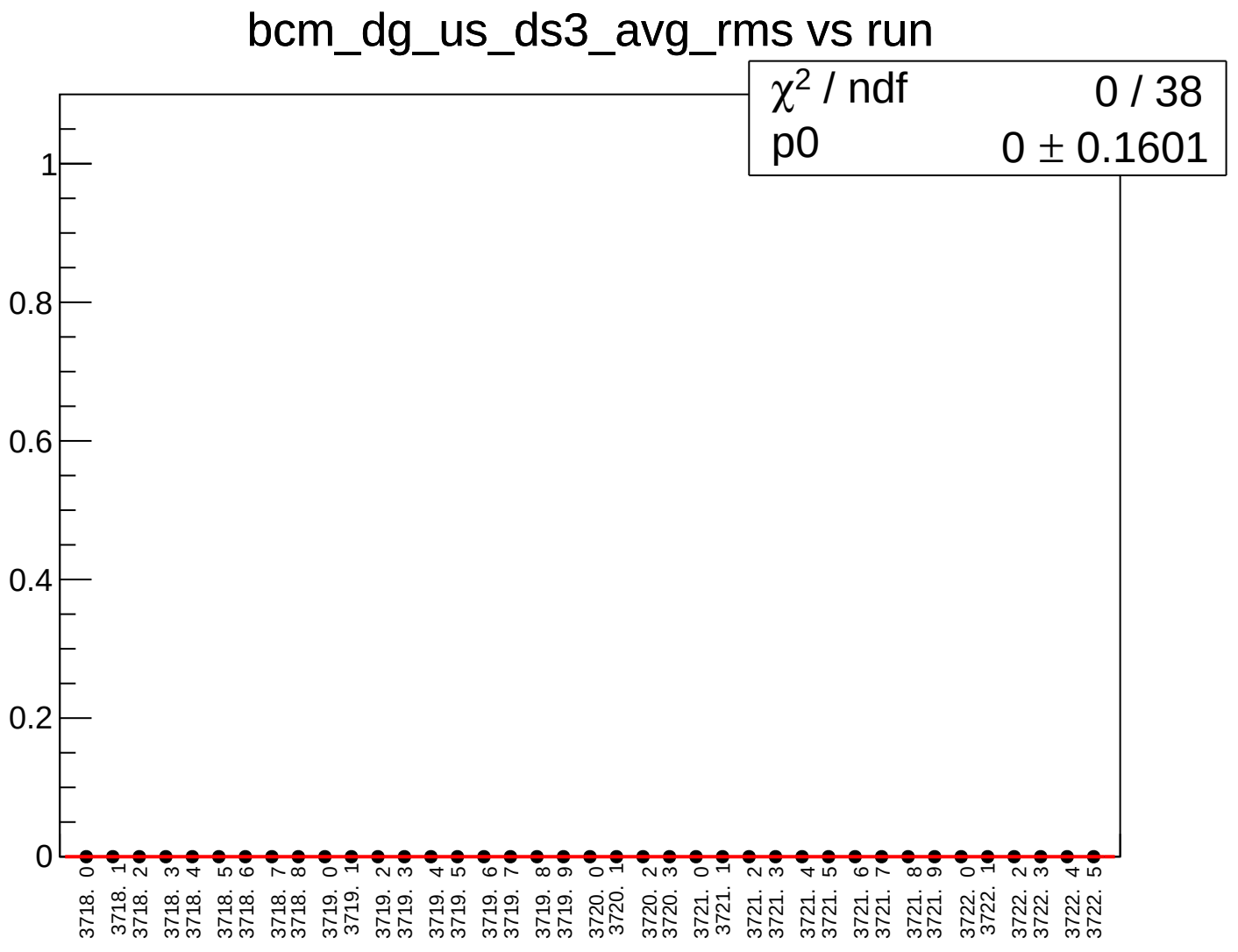
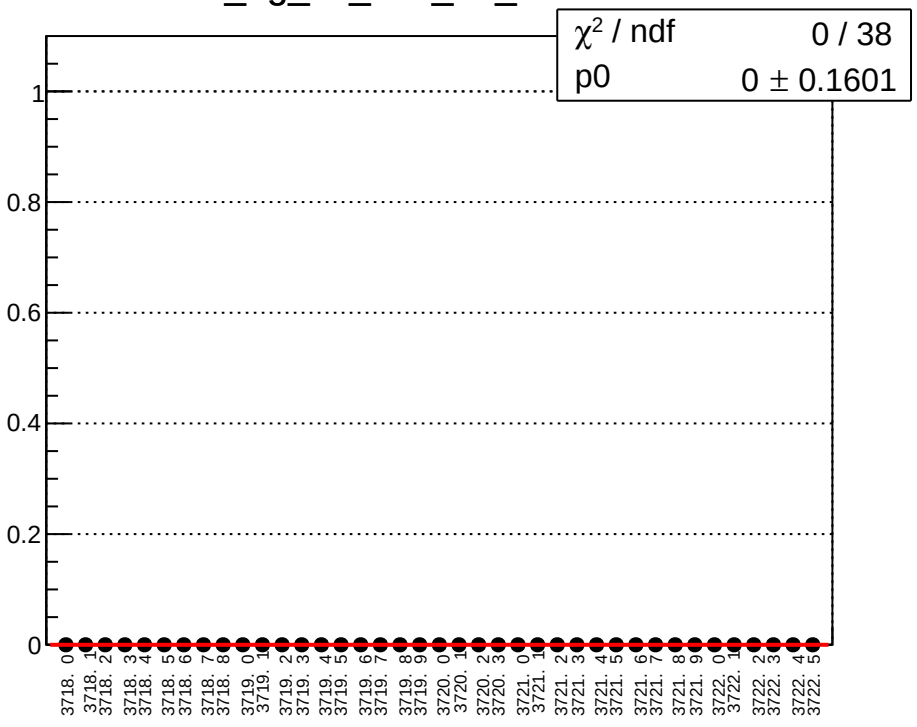
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5


pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8


bcm_dg_us_ds3_avg_rms vs run
χ² / ndf 0 / 38
p0 0 ± 0.1601
1
0.8
0.6
0.4
0.2
0
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5


bcm_dg_us_ds3_dd_mean vs run
χ² / ndf 0 / 38
p0 0 ± 0.1601
1
0.8
0.6
0.4
0.2
0
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
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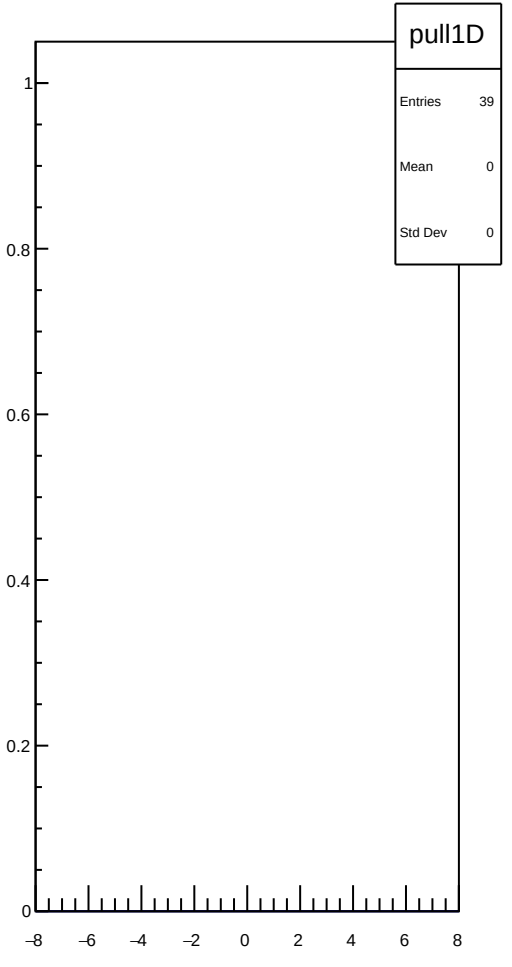
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5


pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
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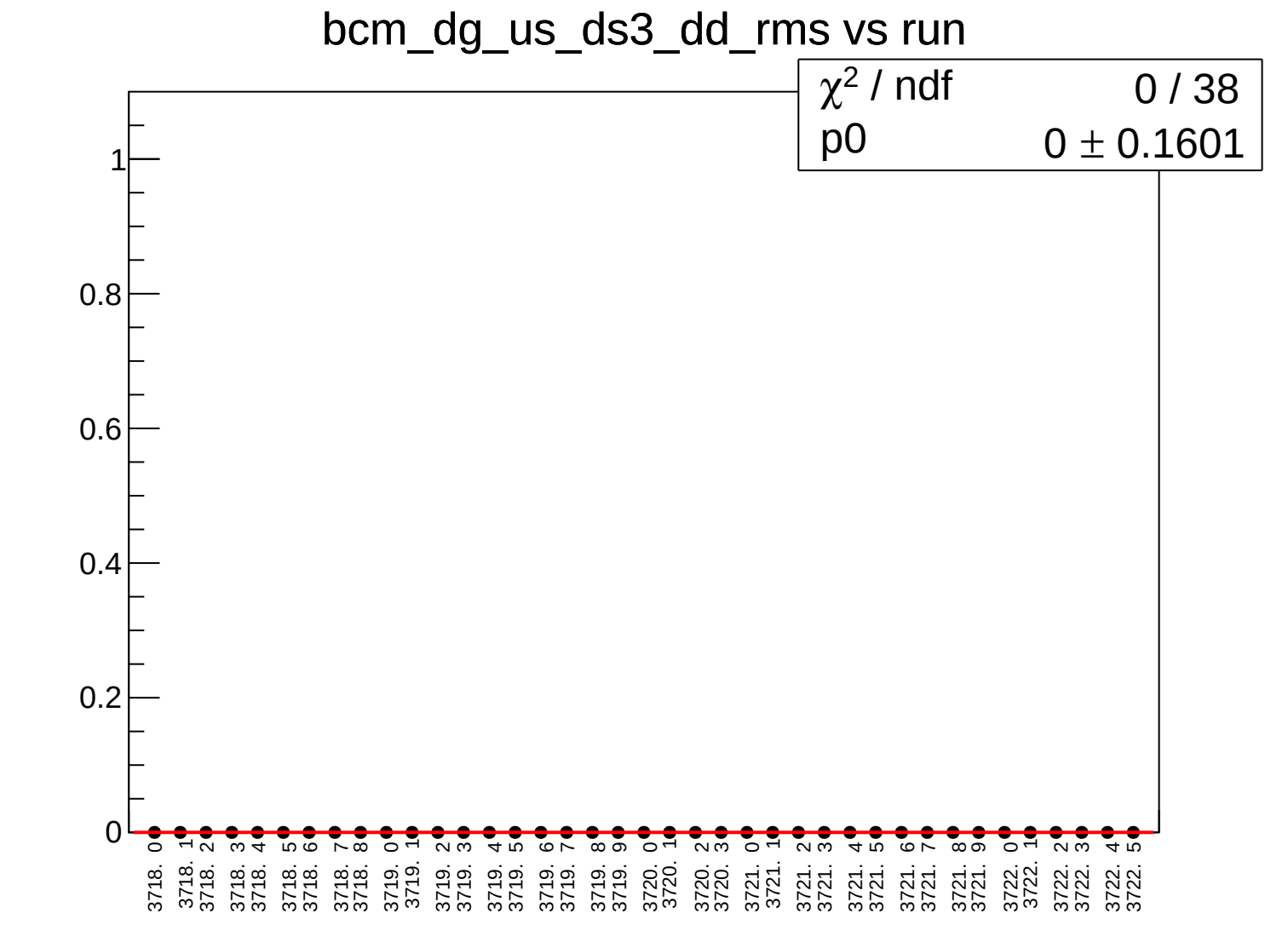
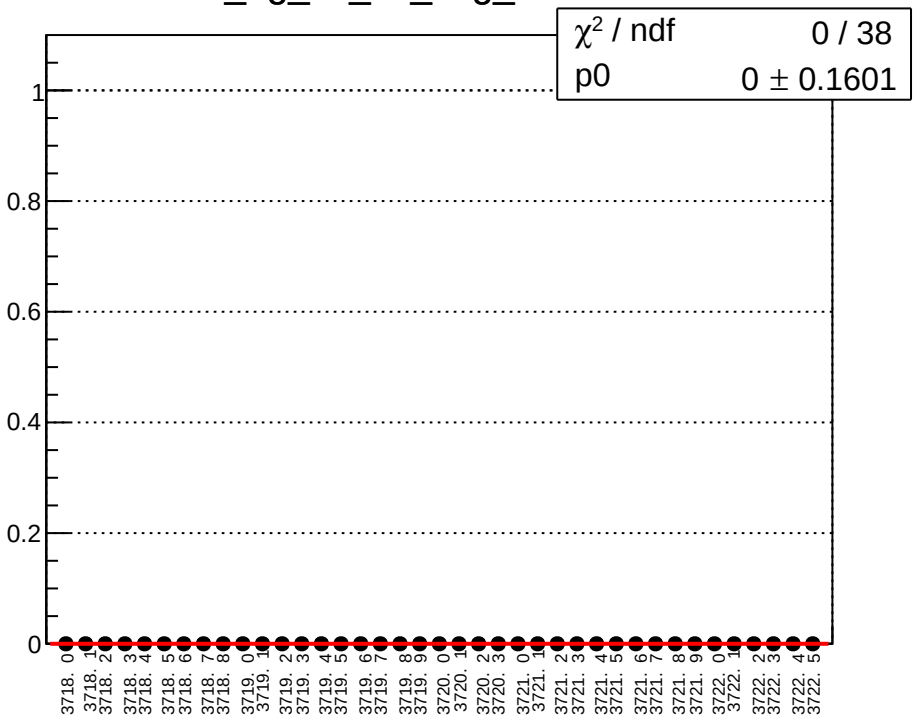
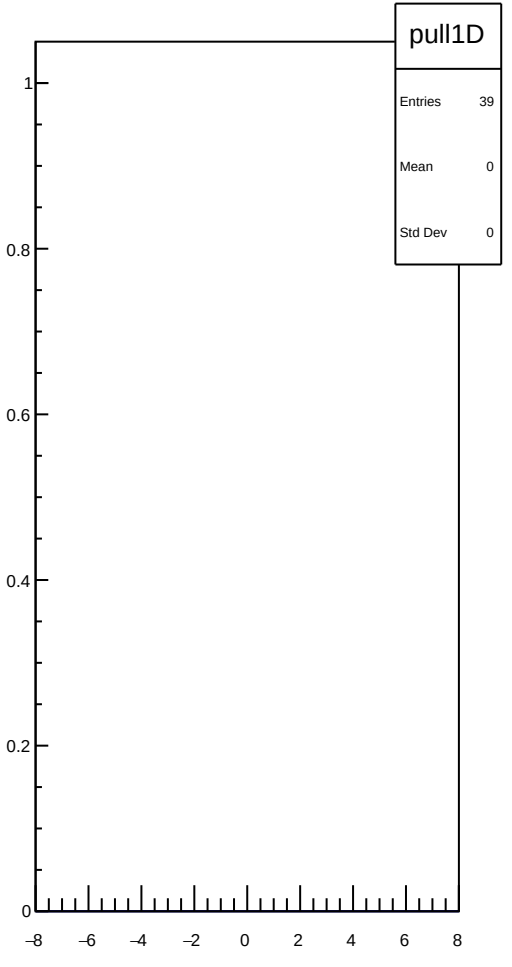
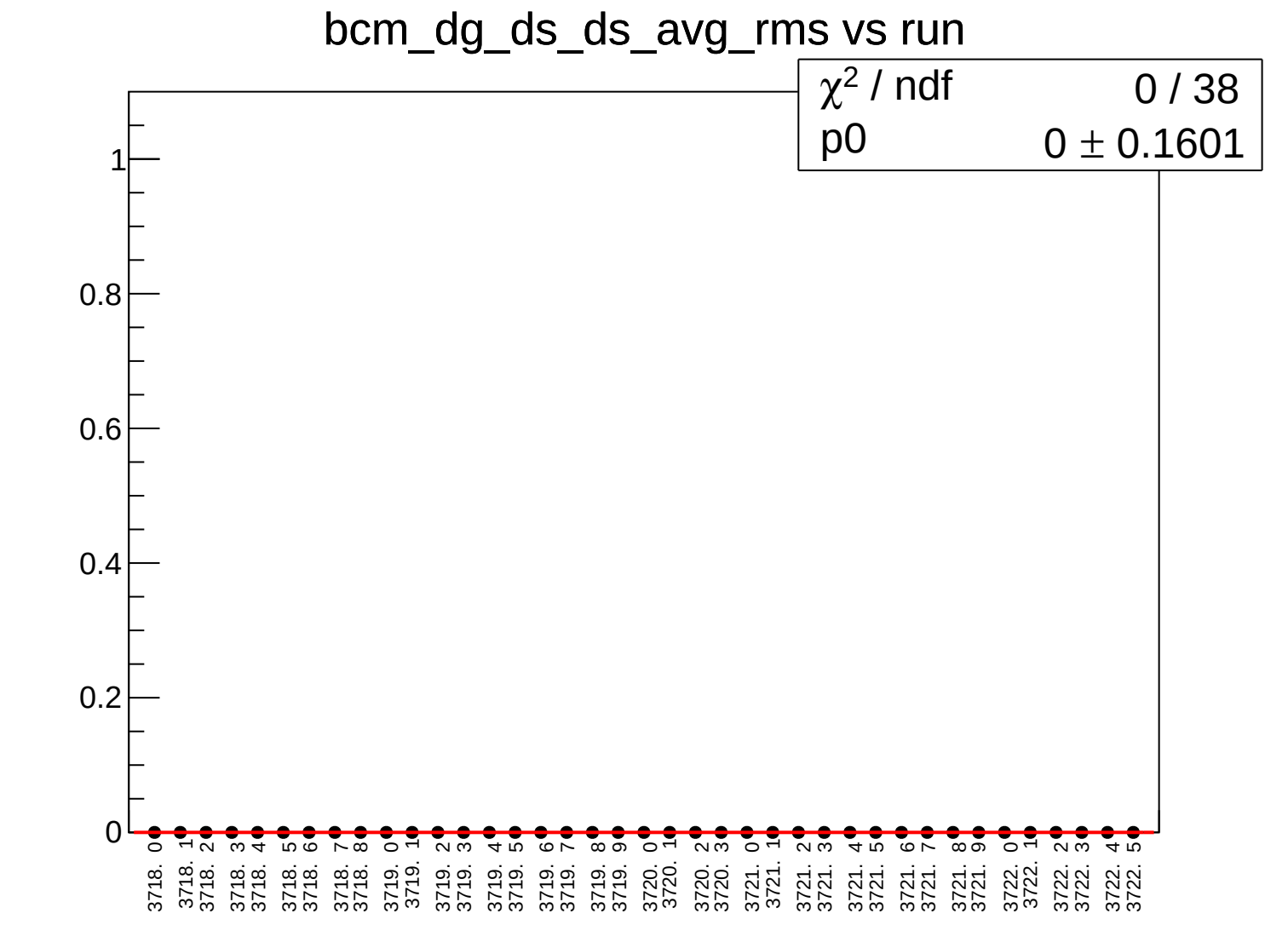
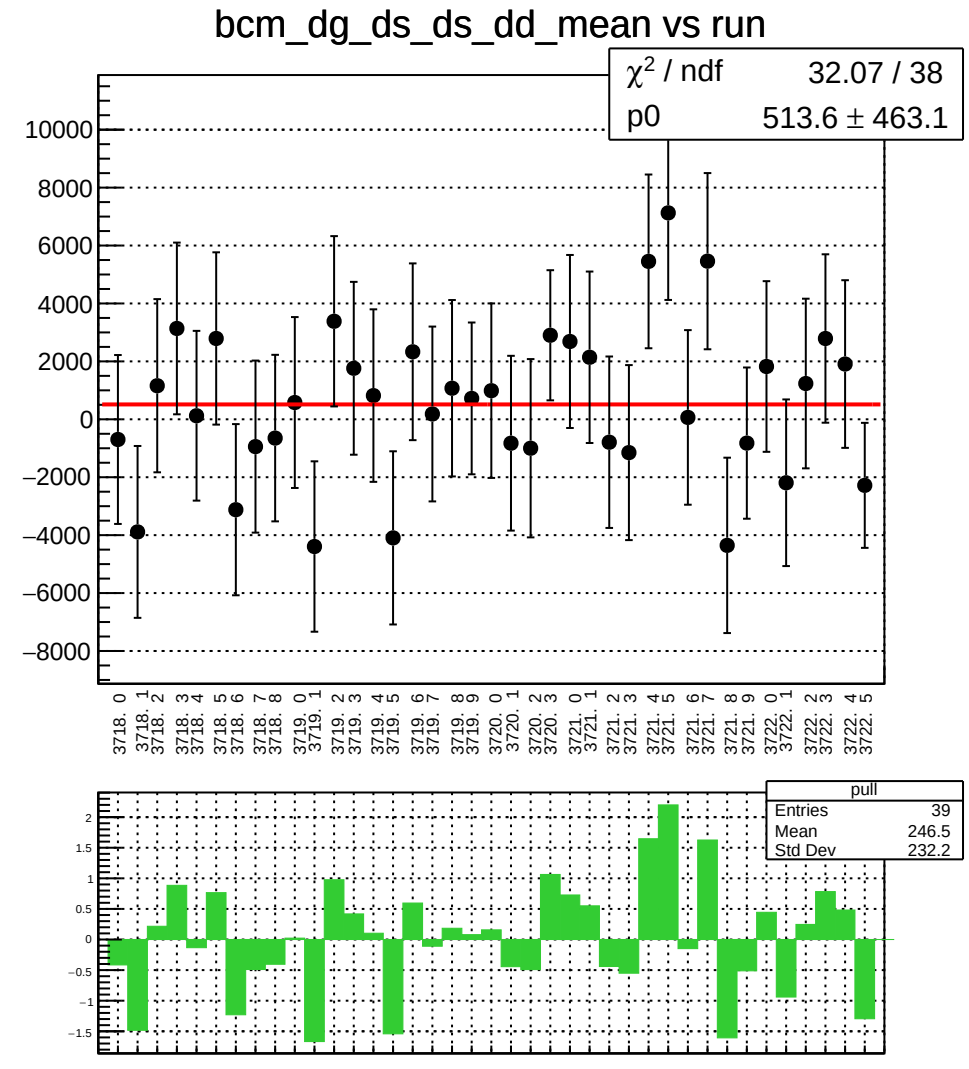
0
2
4
6
8

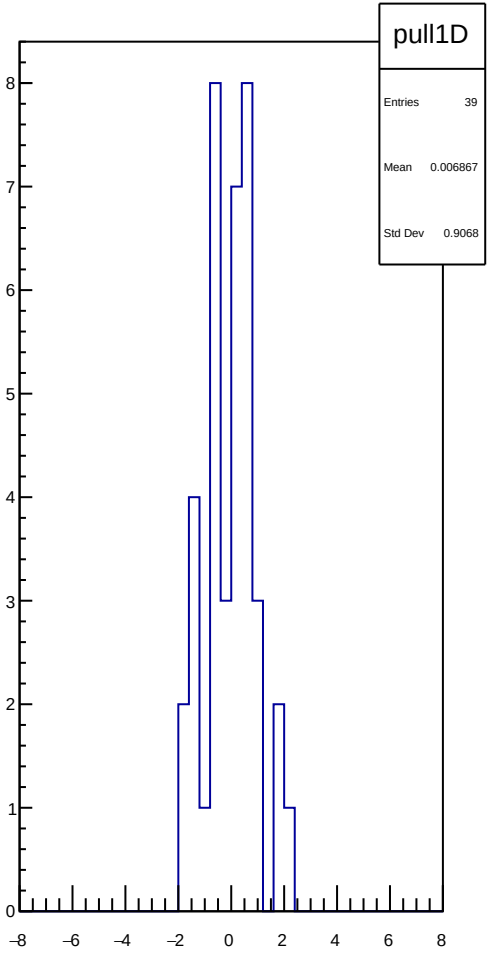

bcm_dg_us_ds3_dd_rms vs run
χ² / ndf 0 / 38
p0 0 ± 0.1601
1
0.8
0.6
0.4
0.2
0
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

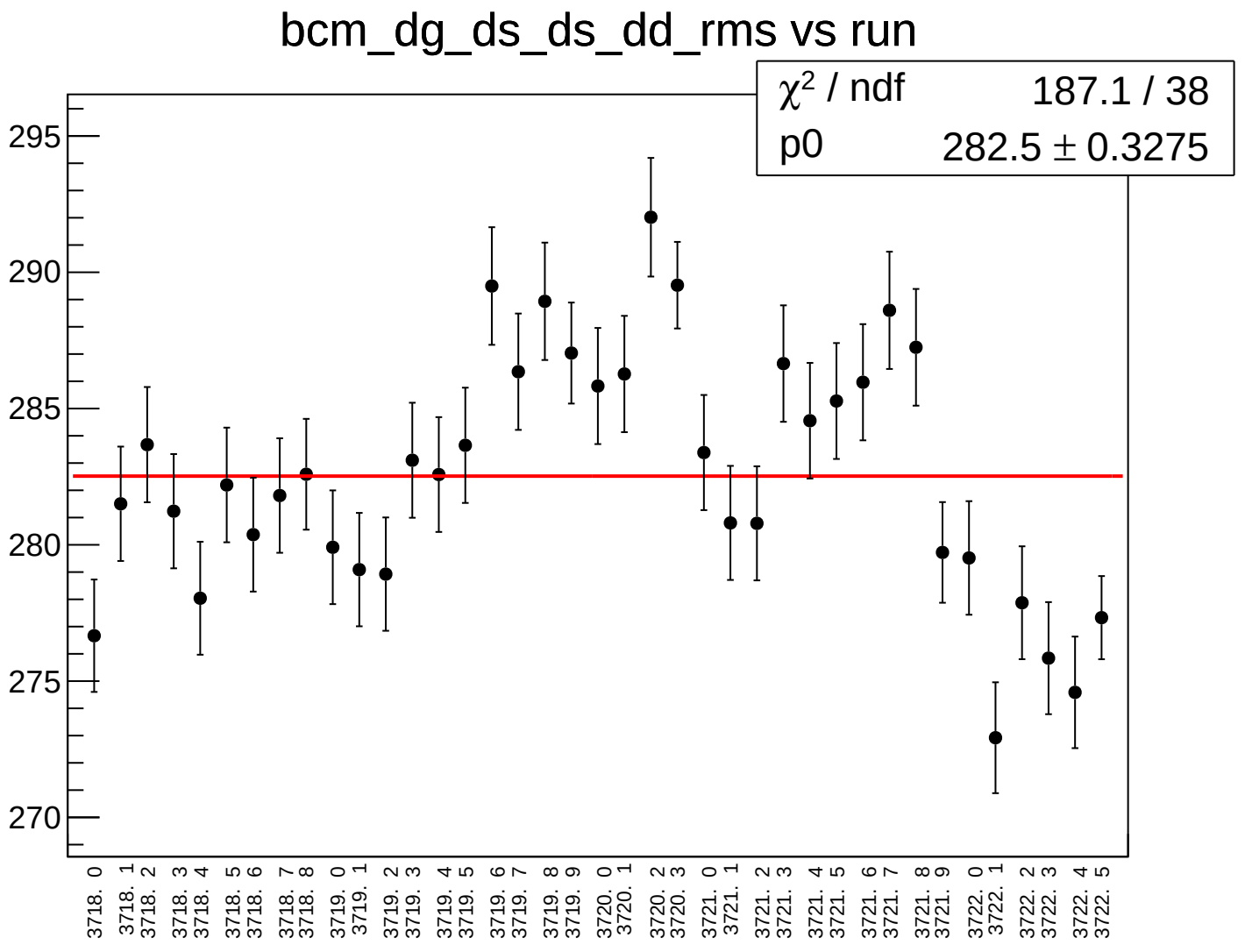

bcm_dg_ds_ds_avg_mean vs run
χ² / ndf 0 / 38
p0 0 ± 0.1601
1
0.8
0.6
0.4
0.2
0
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

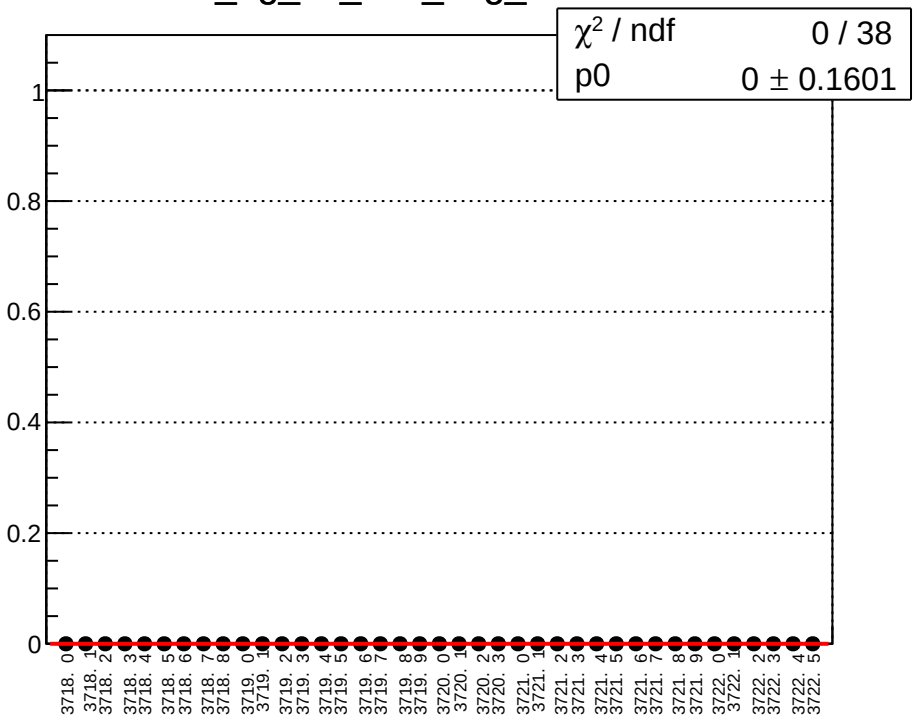

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

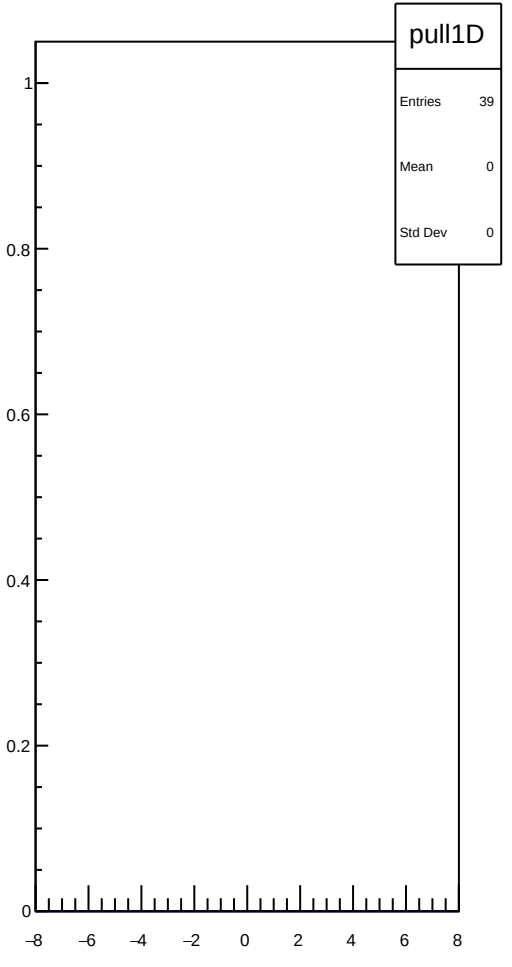

bcm_dg_ds_ds_avg_rms vs run
χ² / ndf 0 / 38
p0 0 ± 0.1601
1
0.8
0.6
0.4
0.2
0
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5


bcm_dg_ds_ds_dd_mean vs run
χ² / ndf 32.07 / 38
p0 513.6 ± 463.1
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 246.5
Std Dev 232.2
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 39
Mean 0.006867
Std Dev 0.9068
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


bcm_dg_ds_ds_dd_rms vs run
χ² / ndf 187.1 / 38
p0 282.5 ± 0.3275
295
290
285
280
275
270
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5


bcm_dg_ds_ds3_avg_mean vs run
χ² / ndf 0 / 38
p0 0 ± 0.1601
1
0.8
0.6
0.4
0.2
0
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5


pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
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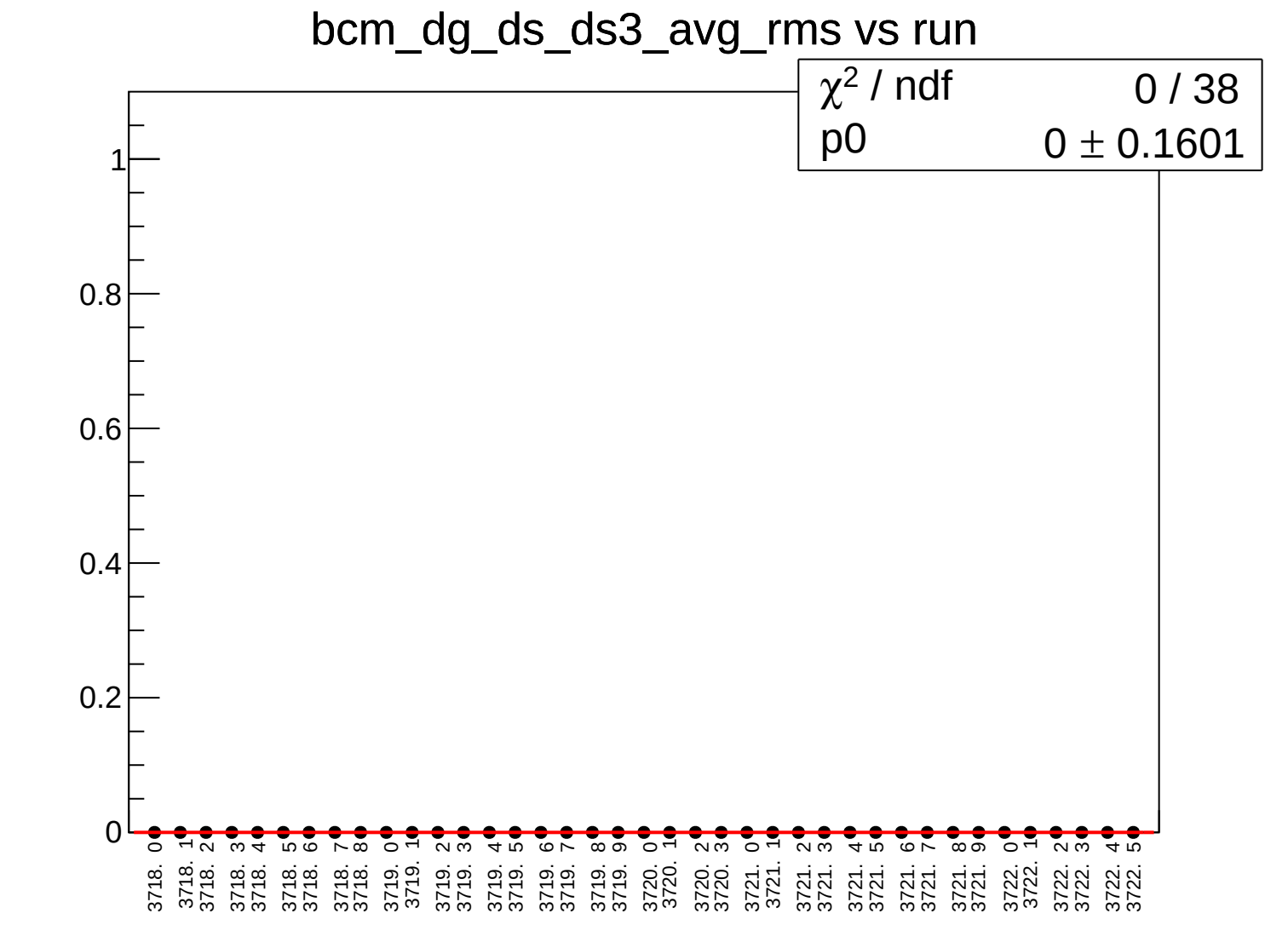
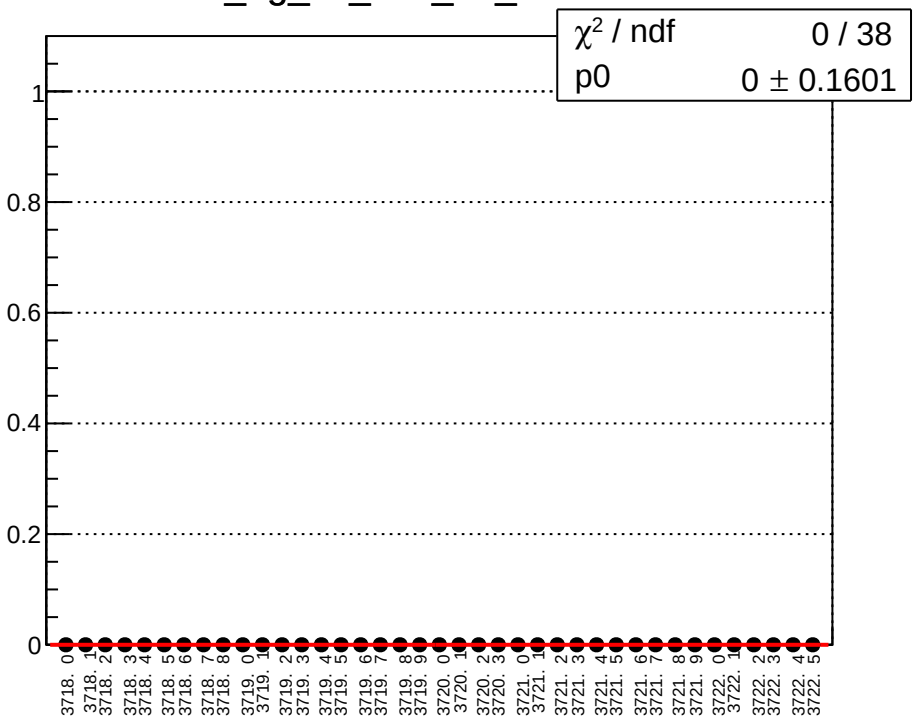
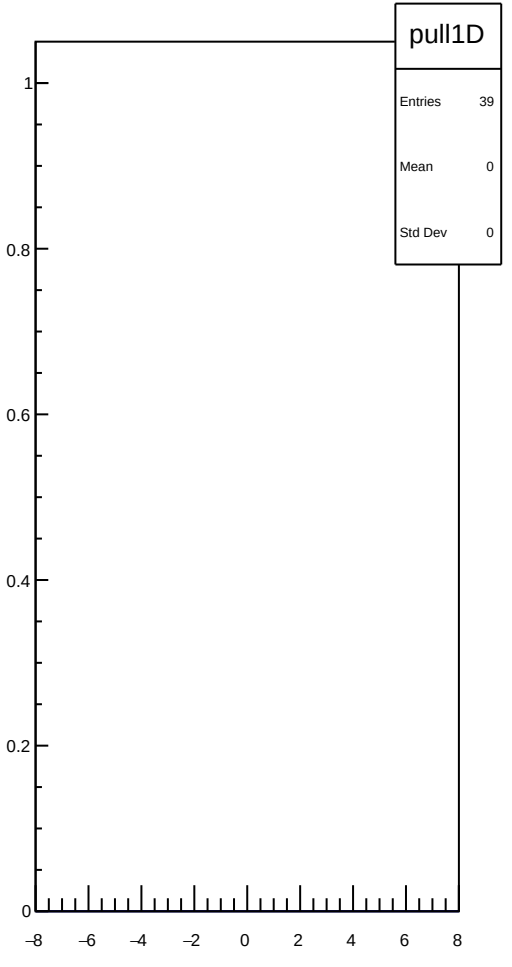
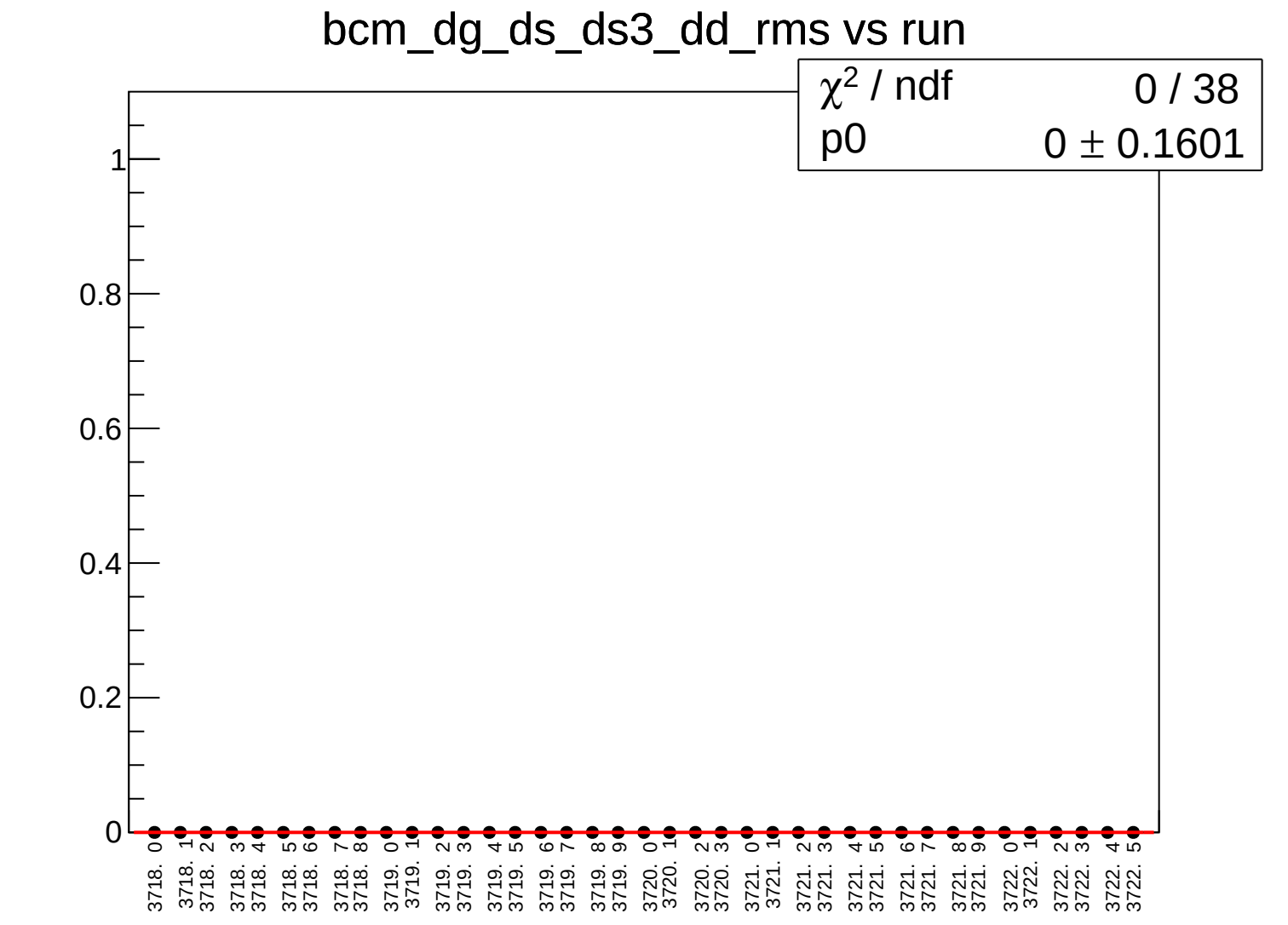
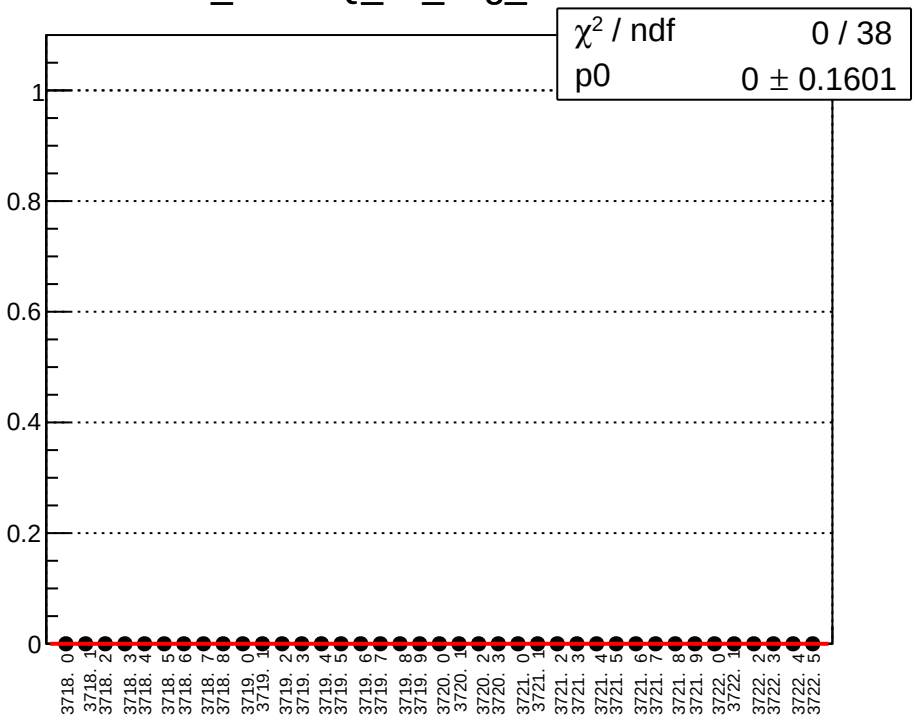
2
4
6
8

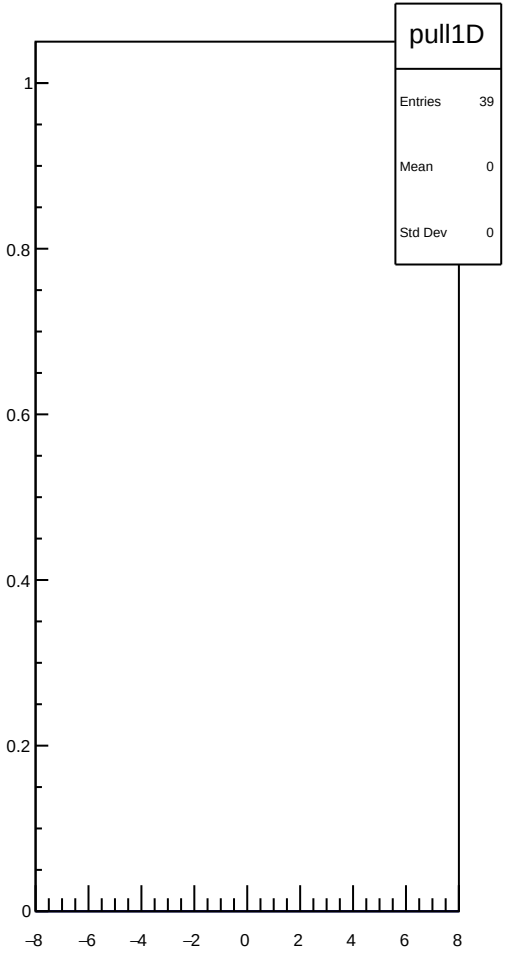

bcm_dg_ds_ds3_avg_rms vs run
χ^2 / ndf 0 / 38
p0 0 ± 0.1601
1
0.8
0.6
0.4
0.2
0
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

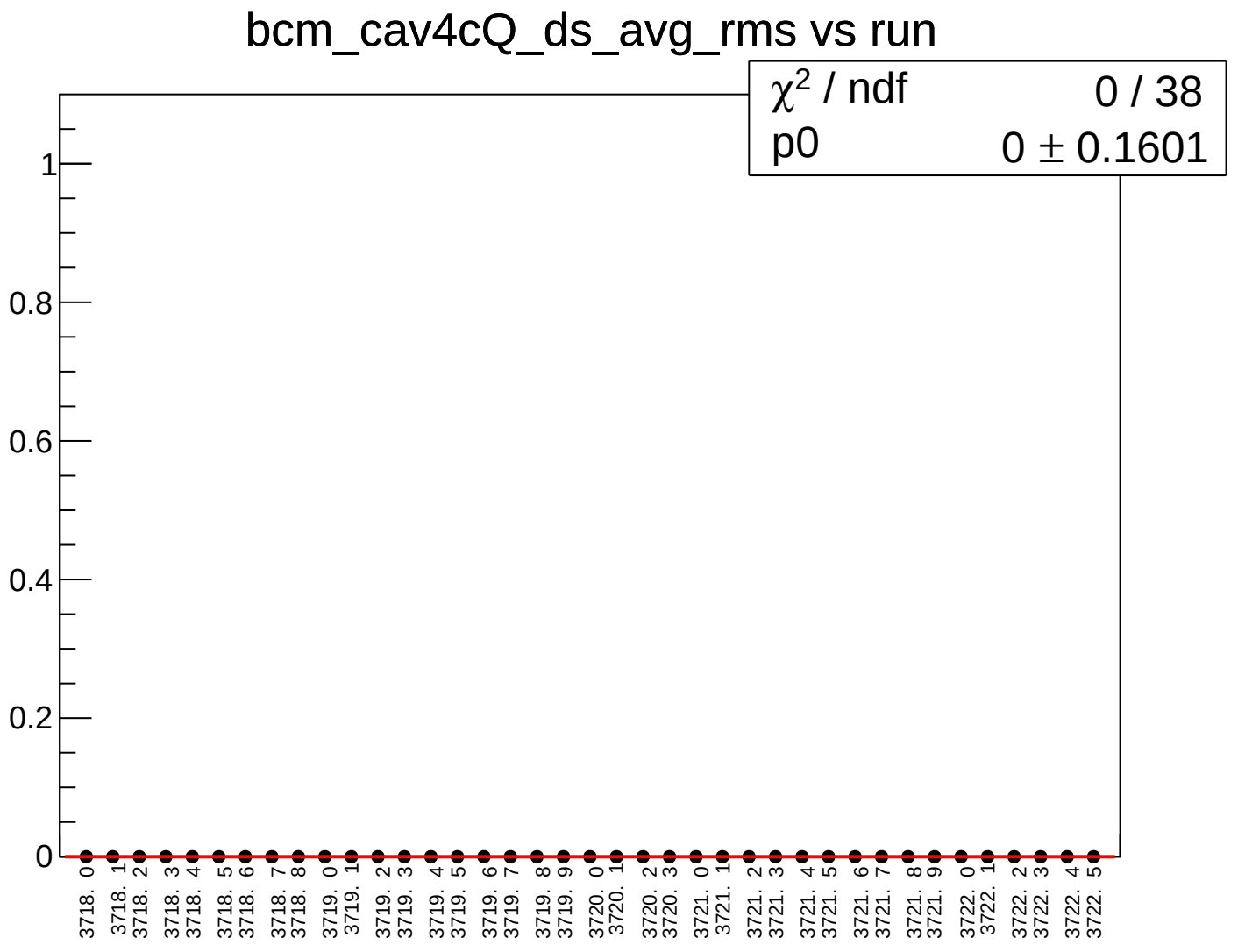

bcm_dg_ds_ds3_dd_mean vs run
χ² / ndf 0 / 38
p0 0 ± 0.1601
1
0.8
0.6
0.4
0.2
0
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5


pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8


bcm_dg_ds_ds3_dd_rms vs run
χ² / ndf 0 / 38
p0 0 ± 0.1601
1
0.8
0.6
0.4
0.2
0
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5


bcm_cav4cQ_ds_avg_mean vs run
χ² / ndf 0 / 38
p0 0 ± 0.1601
1
0.8
0.6
0.4
0.2
0
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5


pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8


bcm_cav4cQ_ds_avg_rms vs run
χ² / ndf 0 / 38
p0 0 ± 0.1601
1
0.8
0.6
0.4
0.2
0
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
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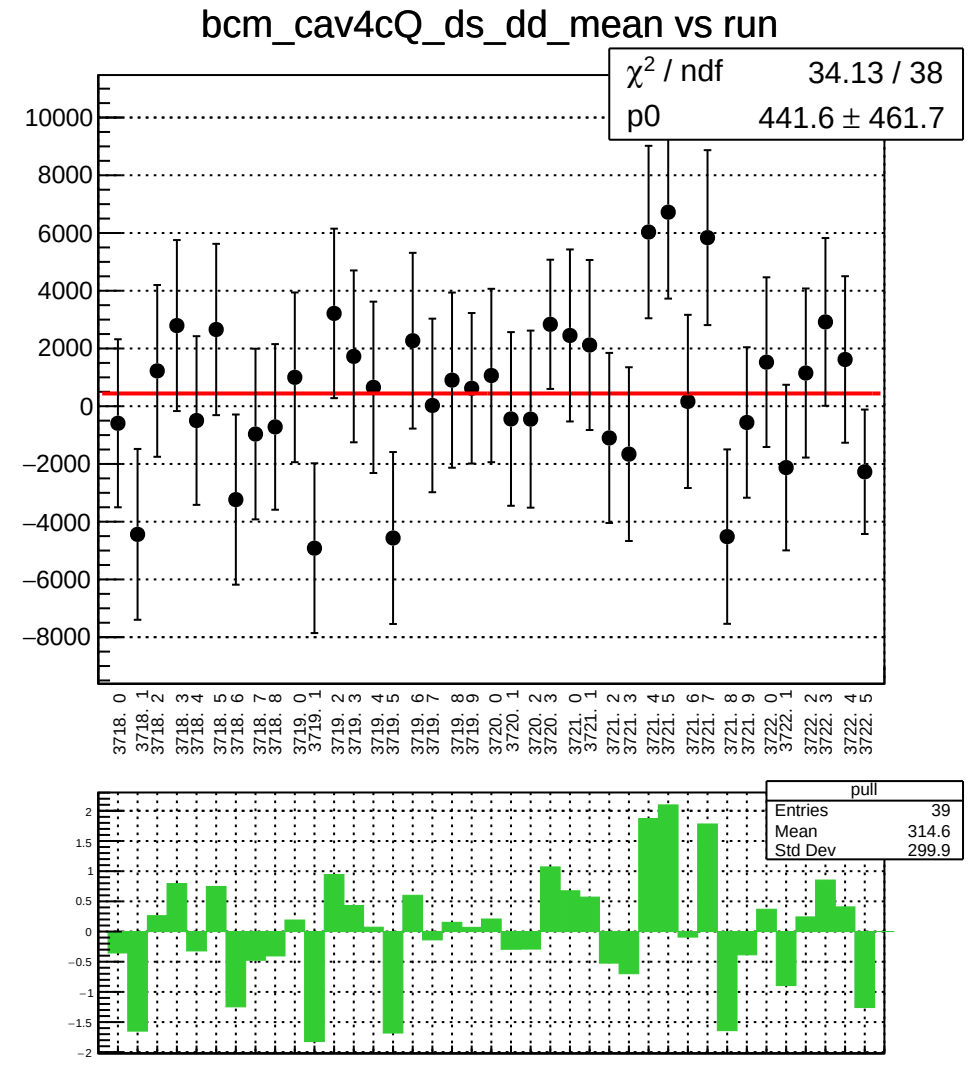
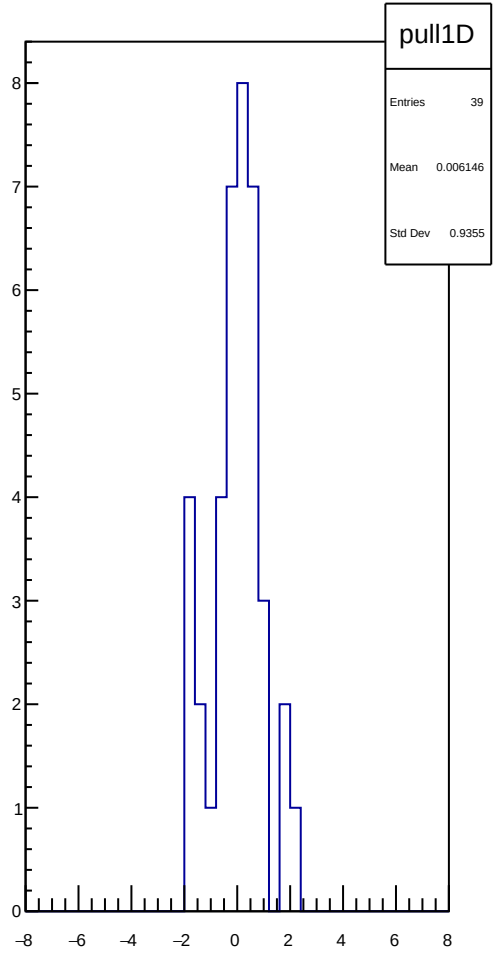
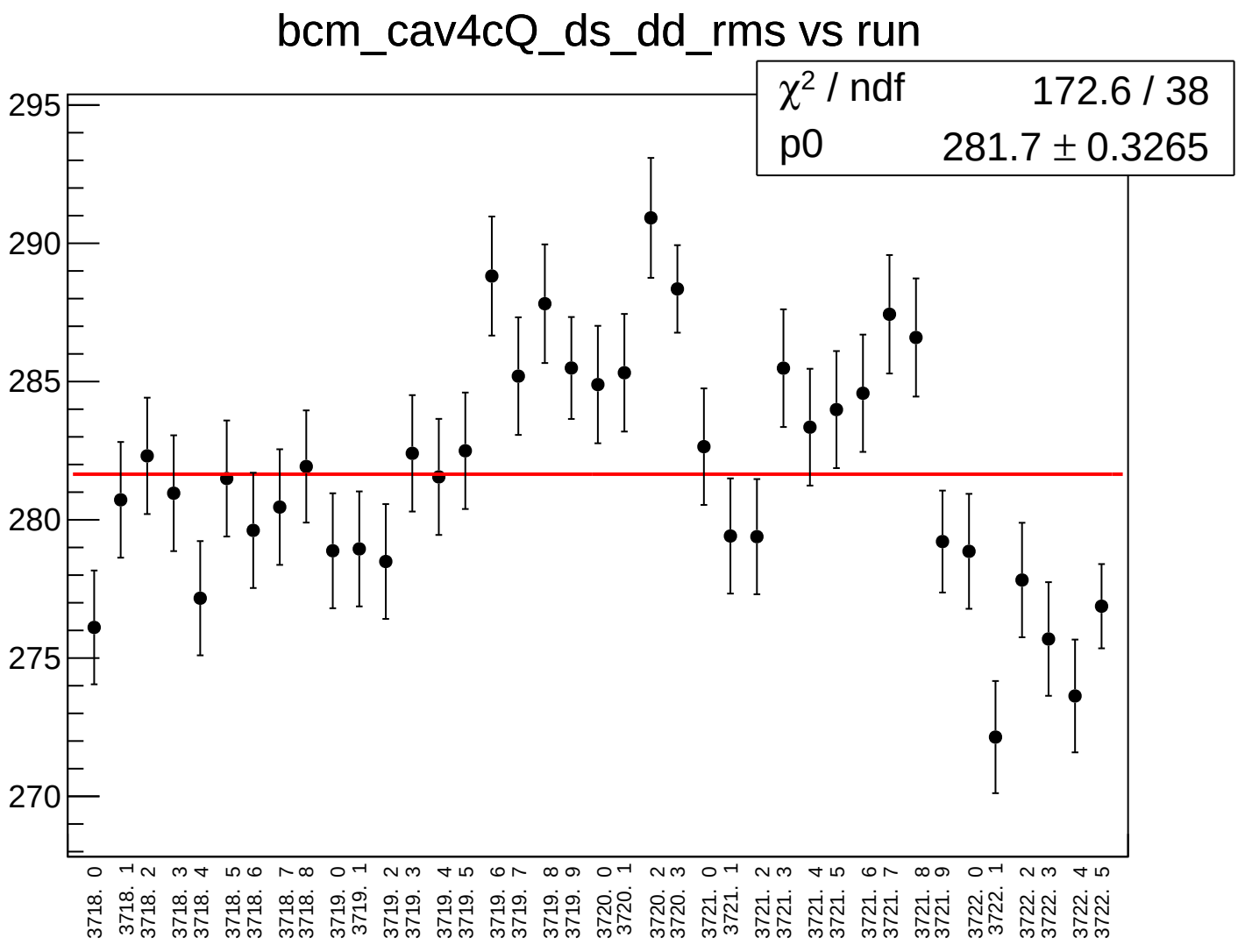
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5


bcm_cav4cQ_ds_dd_mean vs run
χ² / ndf 34.13 / 38
p0 441.6 ± 461.7
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 314.6
Std Dev 299.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 39
Mean 0.006146
Std Dev 0.9355
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


bcm_cav4cQ_ds_dd_rms vs run
χ² / ndf 172.6 / 38
p0 281.7 ± 0.3265
295
290
285
280
275
270
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
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3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
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3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
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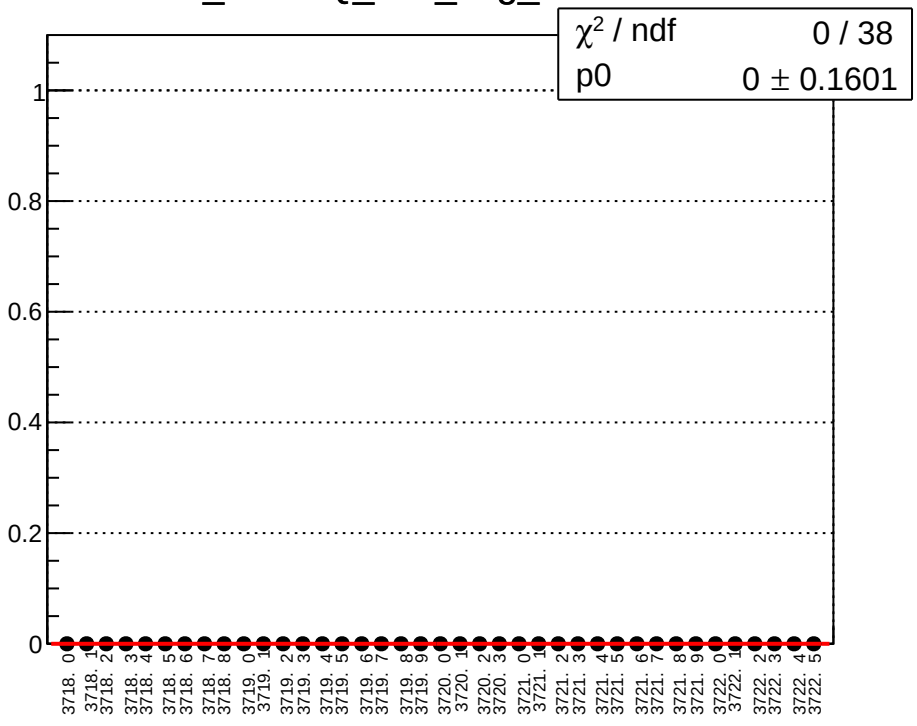
3722. 5


bcm_cav4cQ_ds3_avg_mean vs run
χ² / ndf 0 / 38
p0 0 ± 0.1601
1
0.8
0.6
0.4
0.2
0
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
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3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
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3721. 1
3721. 2
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3722. 2
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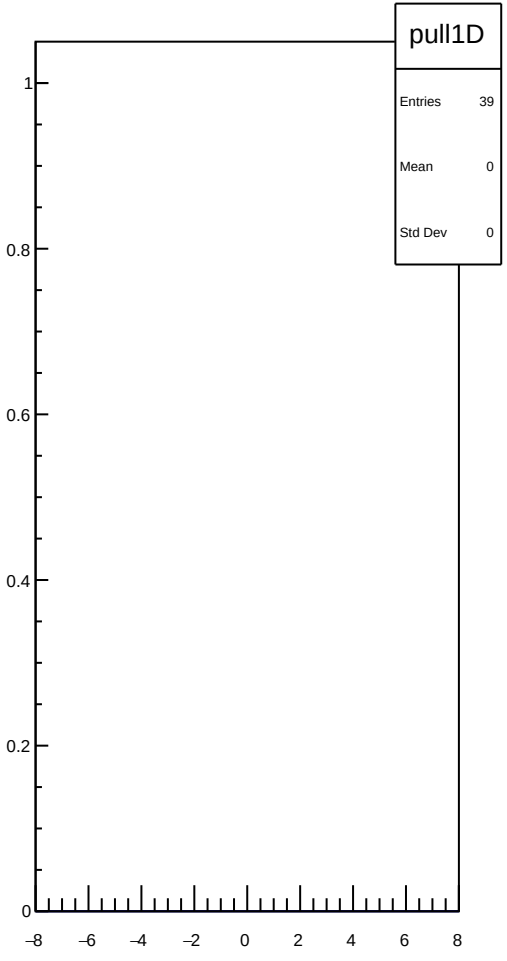
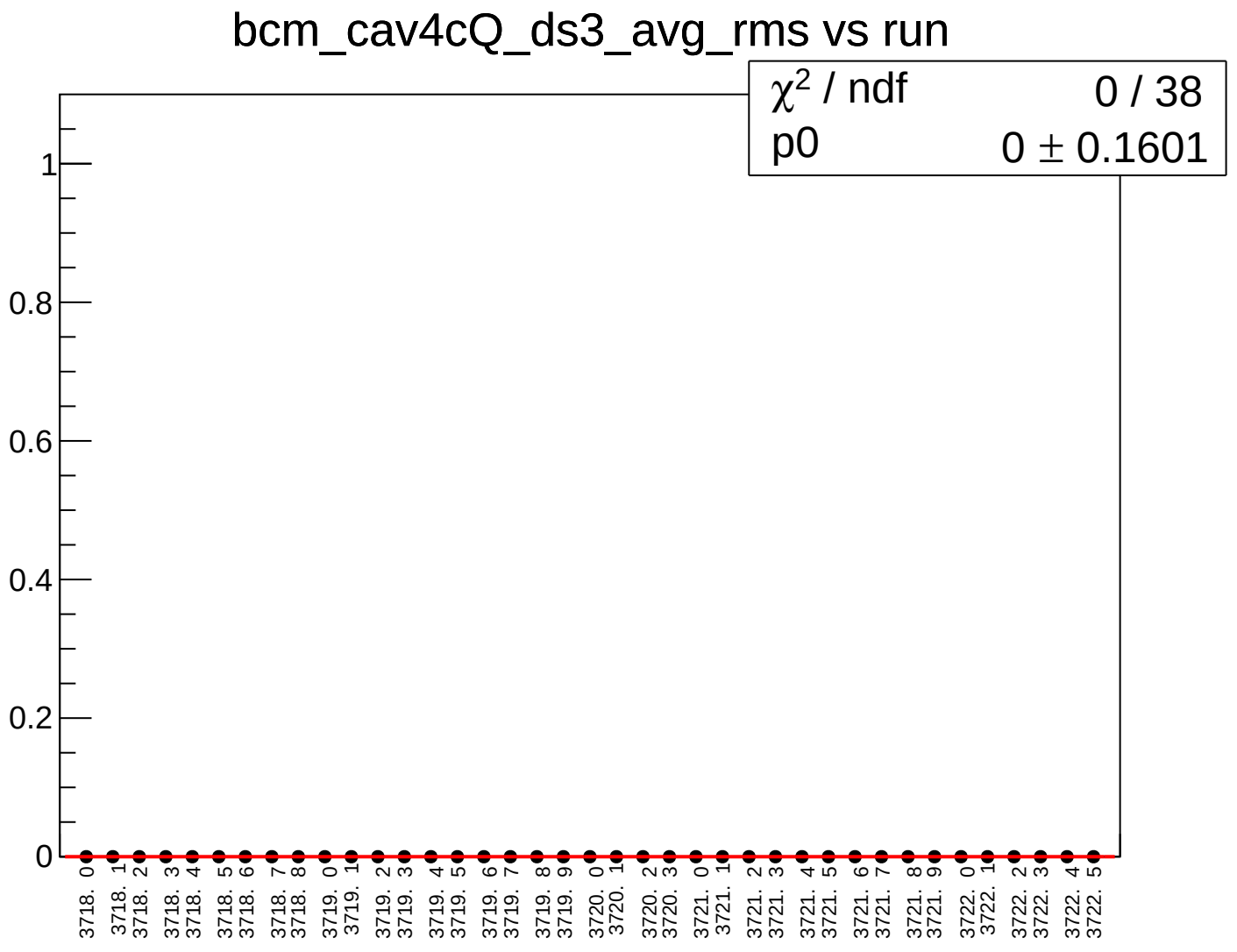
3722. 4
3722. 5


pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8


bcm_cav4cQ_ds3_avg_rms vs run
χ² / ndf 0 / 38
p0 0 ± 0.1601
1
0.8
0.6
0.4
0.2
0
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
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3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
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3721. 4
3721. 5
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3721. 8
3721. 9
3722. 0
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3722. 2
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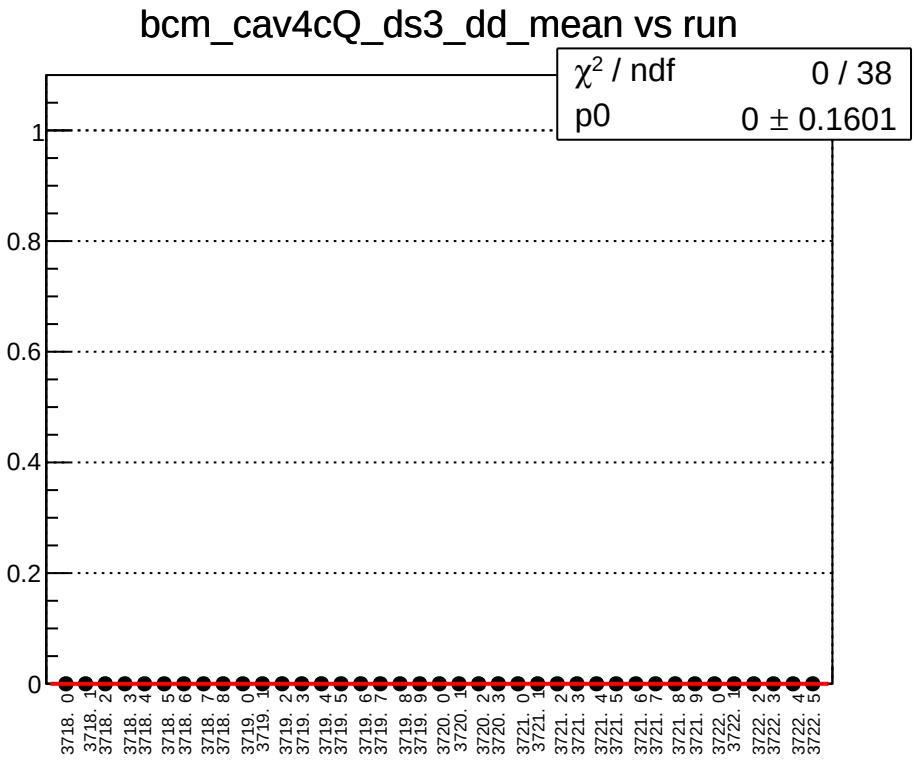
3722. 4
3722. 5


bcm_cav4cQ_ds3_dd_mean vs run
χ² / ndf 0 / 38
p0 0 ± 0.1601
1
0.8
0.6
0.4
0.2
0
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
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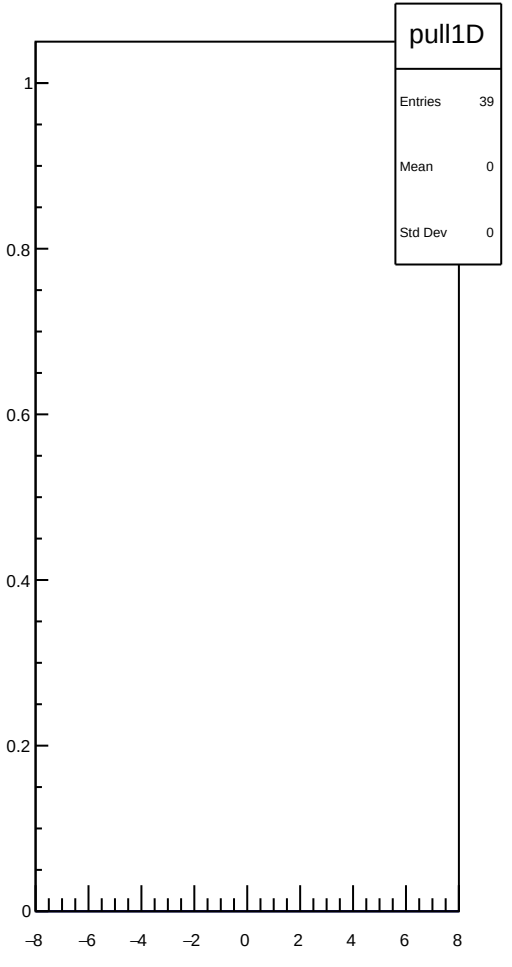
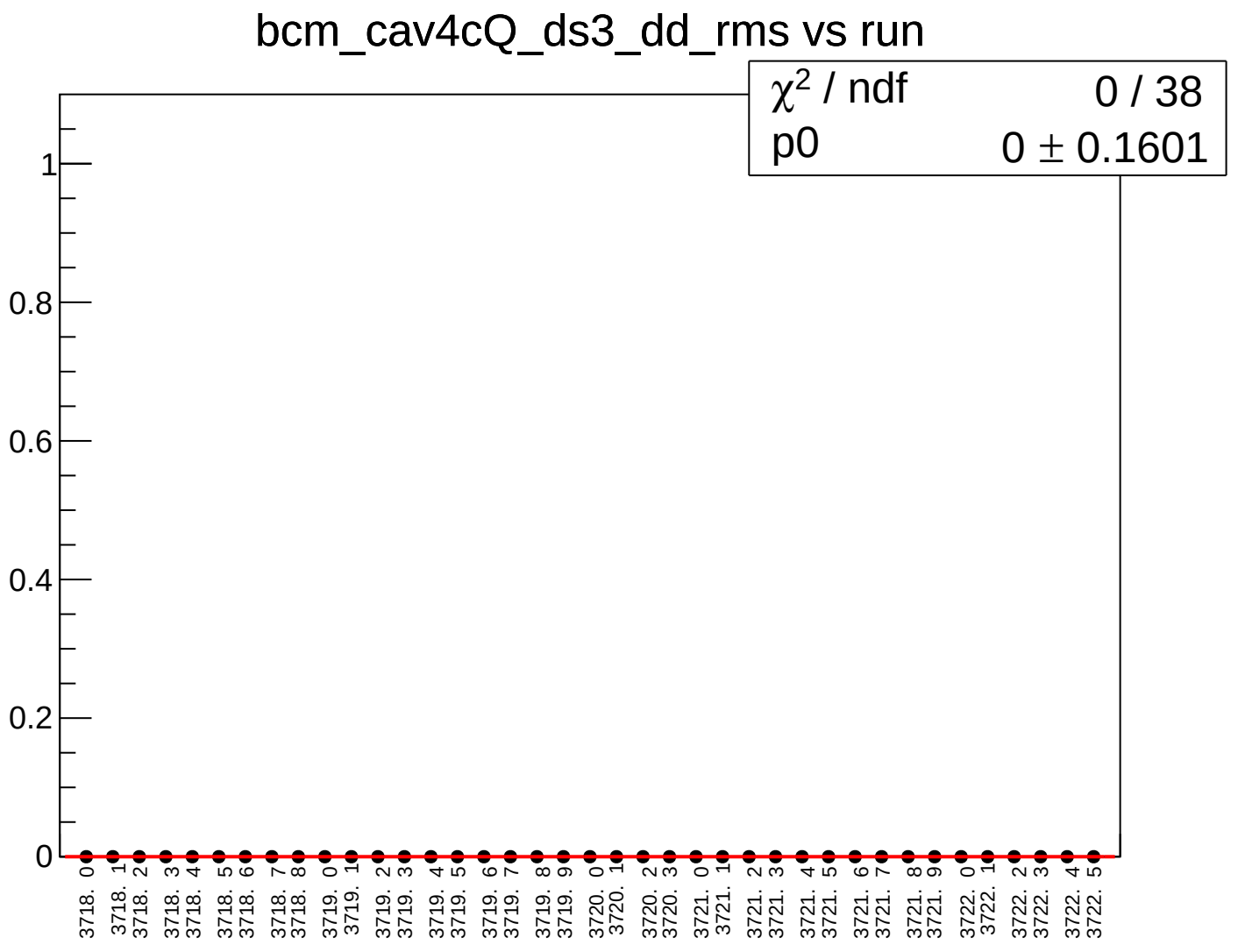
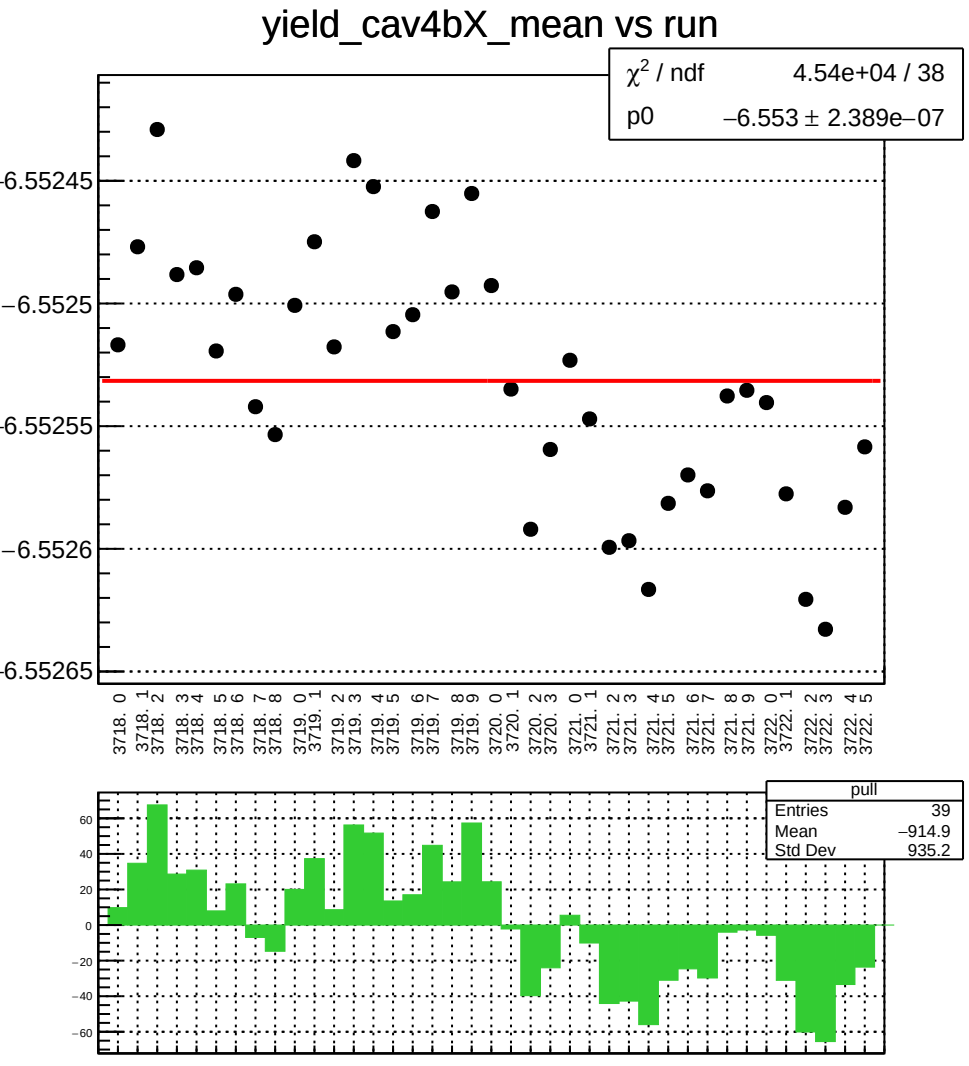
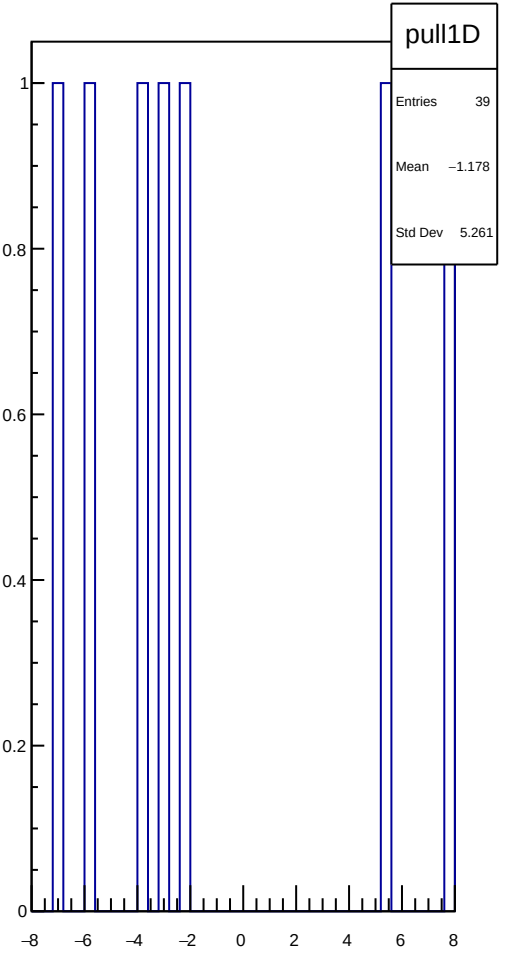
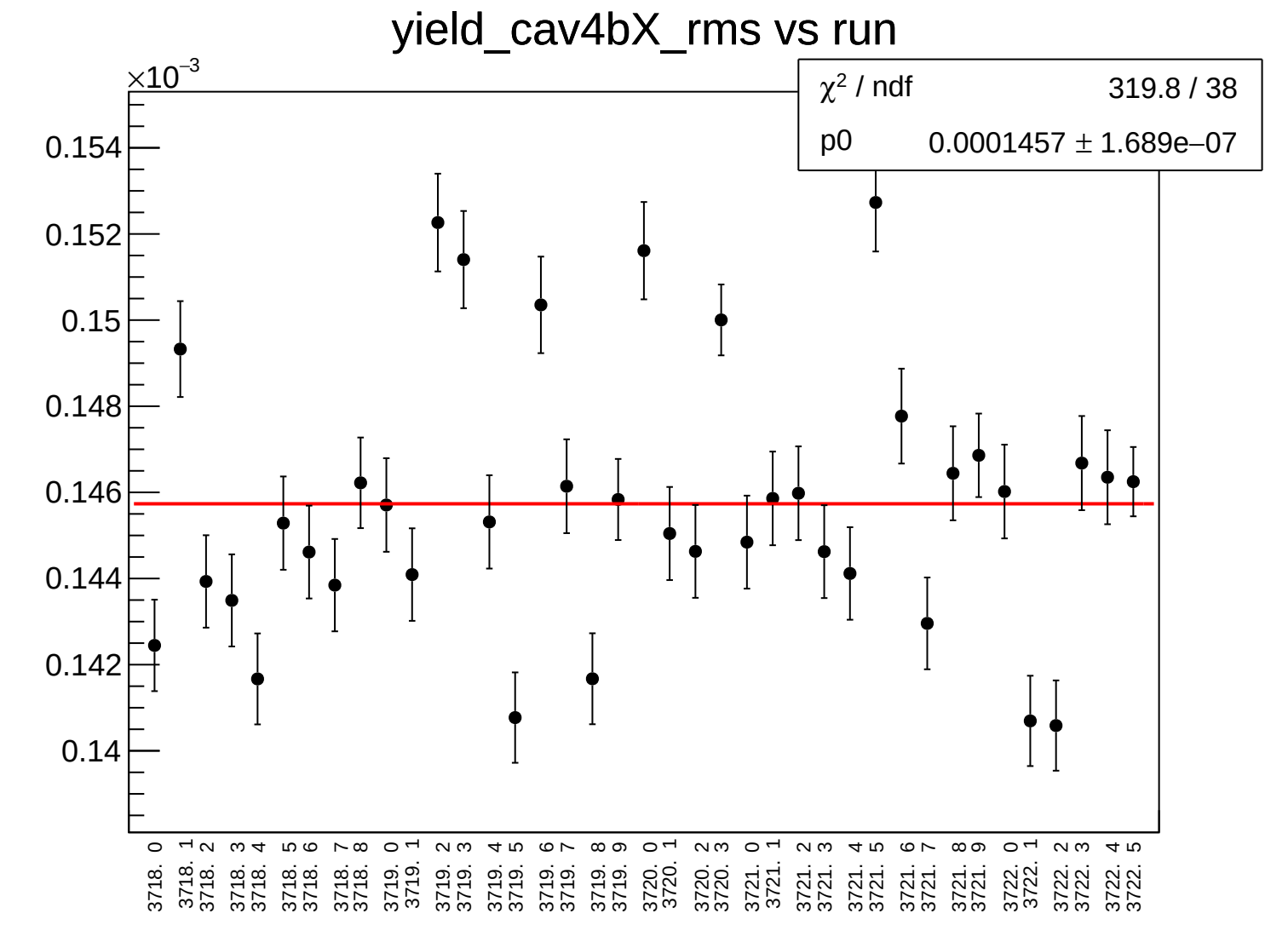
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

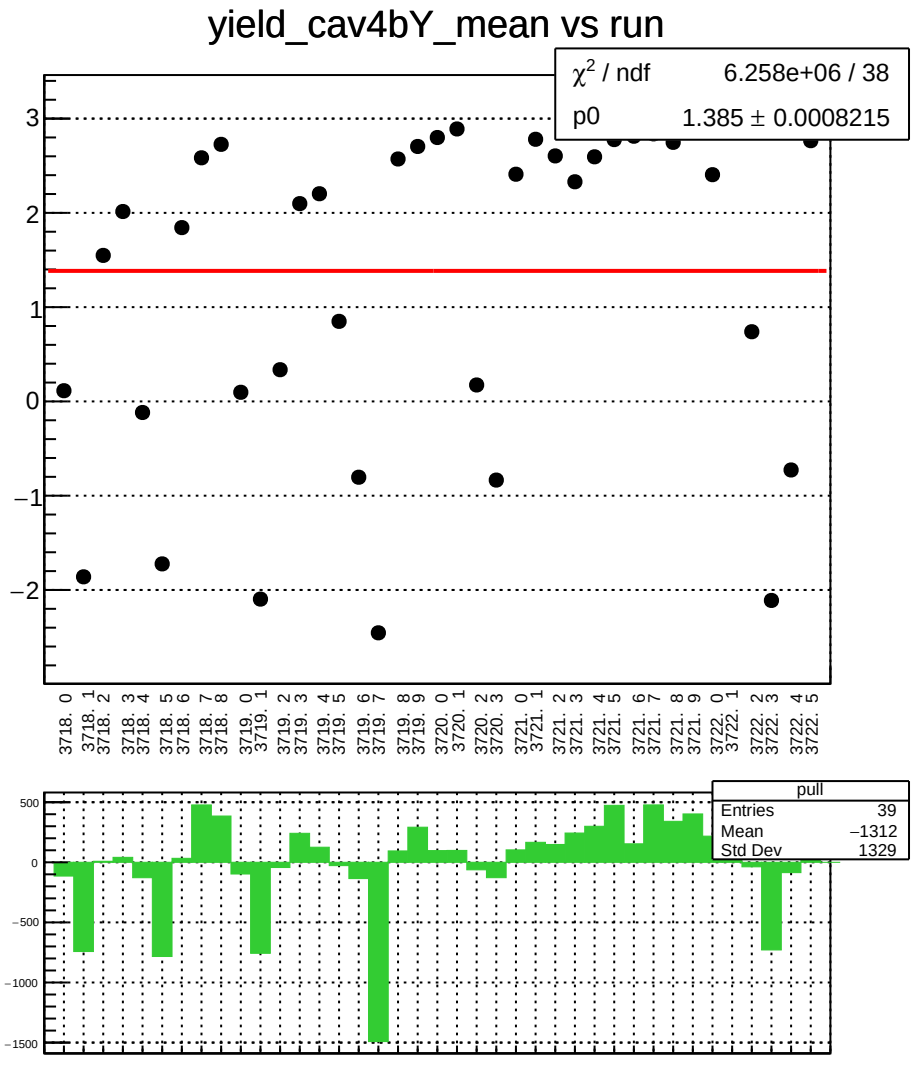

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

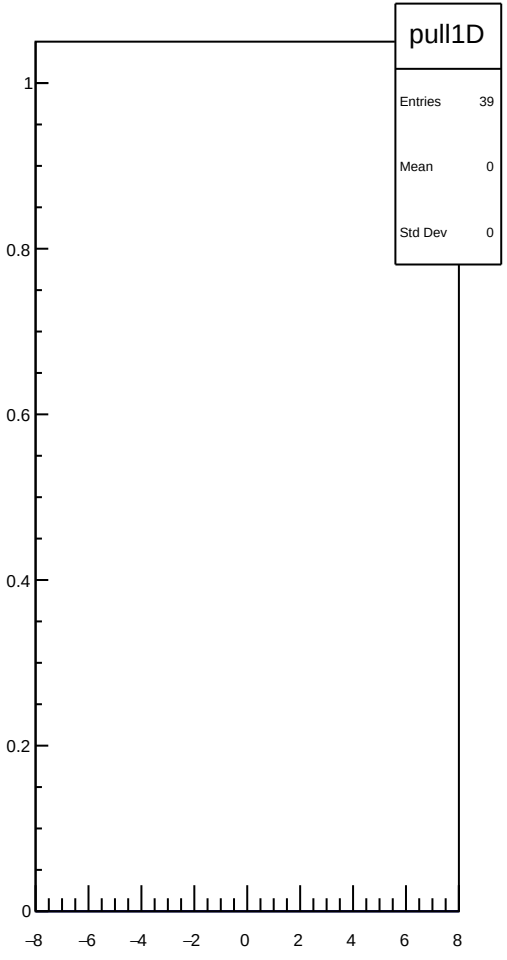

bcm_cav4cQ_ds3_dd_rms vs run
χ² / ndf 0 / 38
p0 0 ± 0.1601
1
0.8
0.6
0.4
0.2
0
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

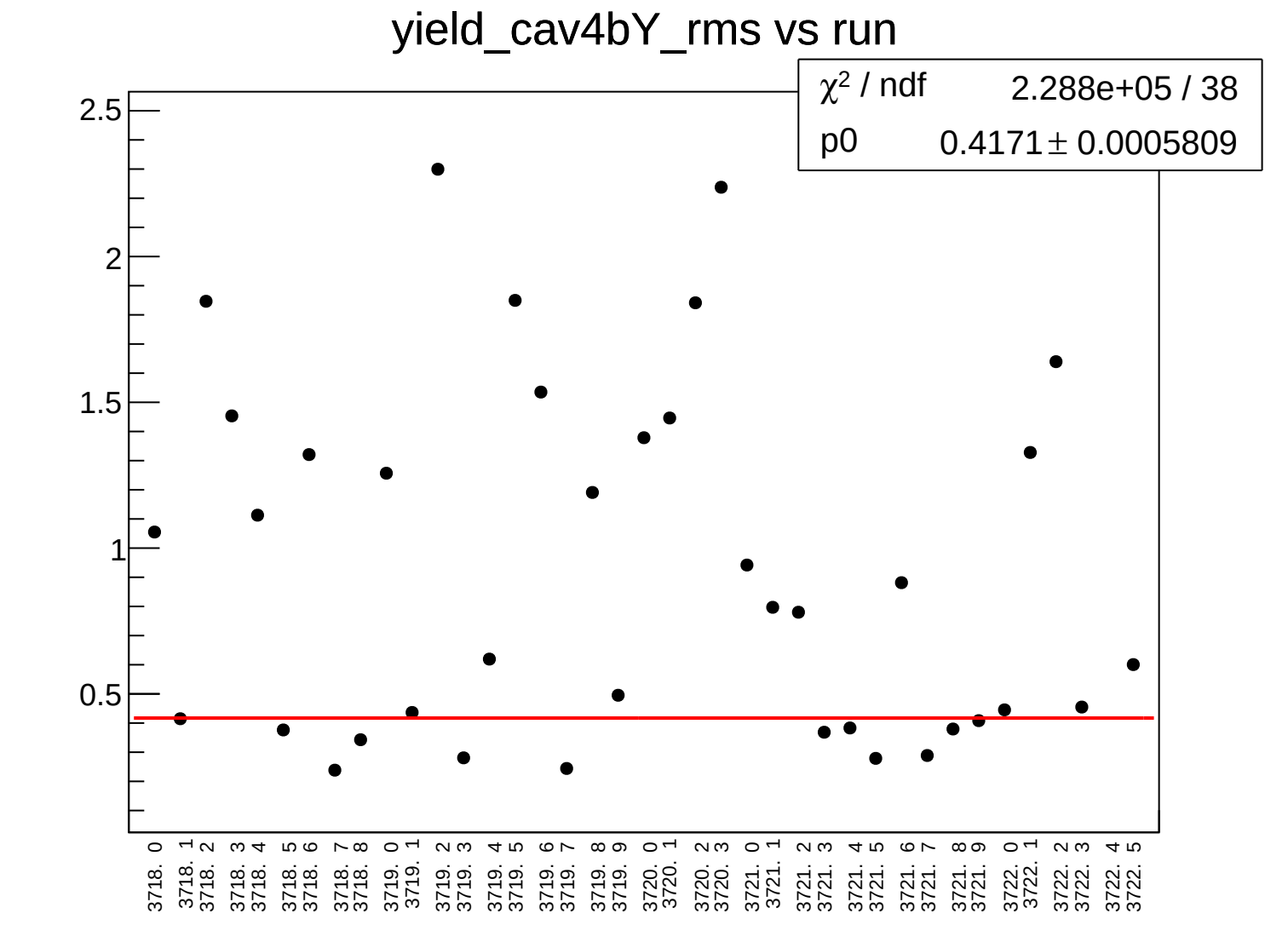

yield_cav4bX_mean vs run
χ² / ndf 4.54e+04 / 38
p0 −6.553 ± 2.389e−07
−6.55245
−6.5525
−6.55255
−6.5526
−6.55265
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −914.9
Std Dev 935.2
60
40
20
0
−20
−40
−60

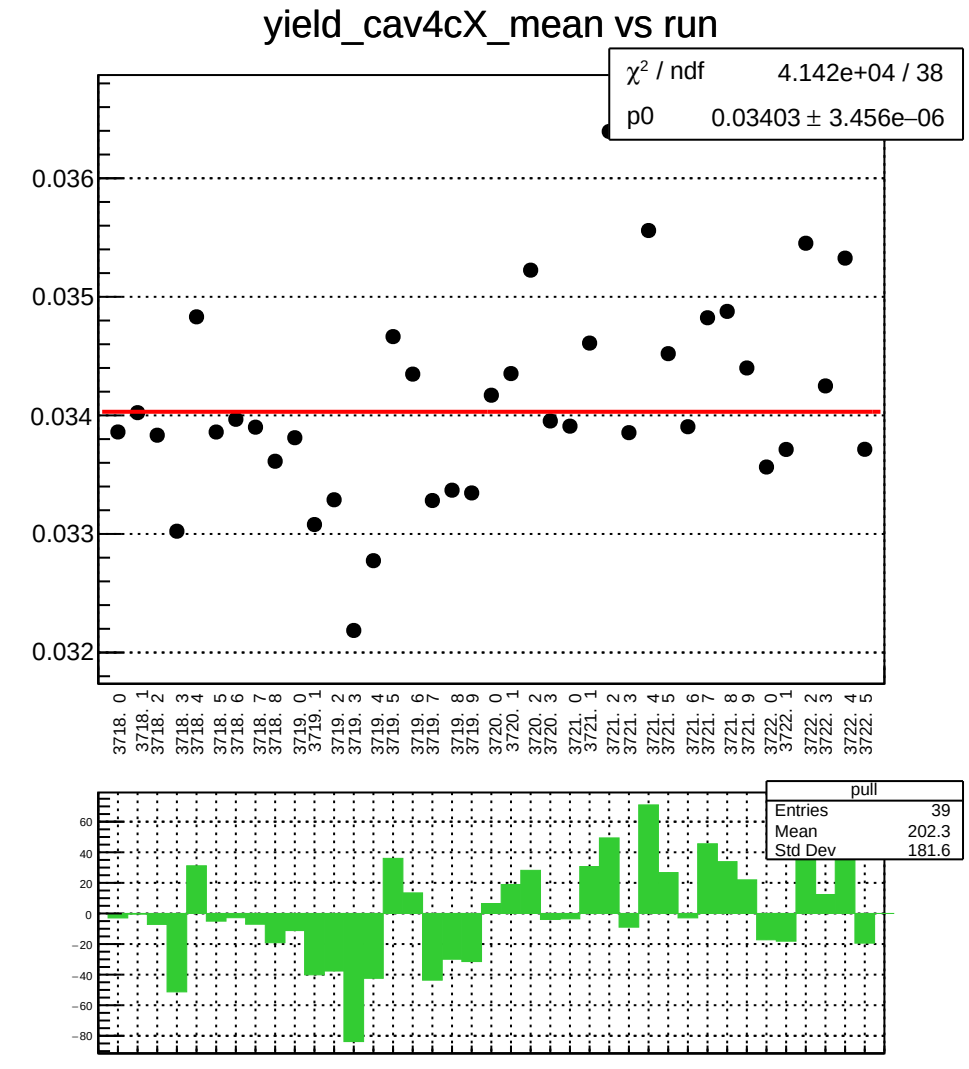

pull1D
Entries 39
Mean −1.178
Std Dev 5.261
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

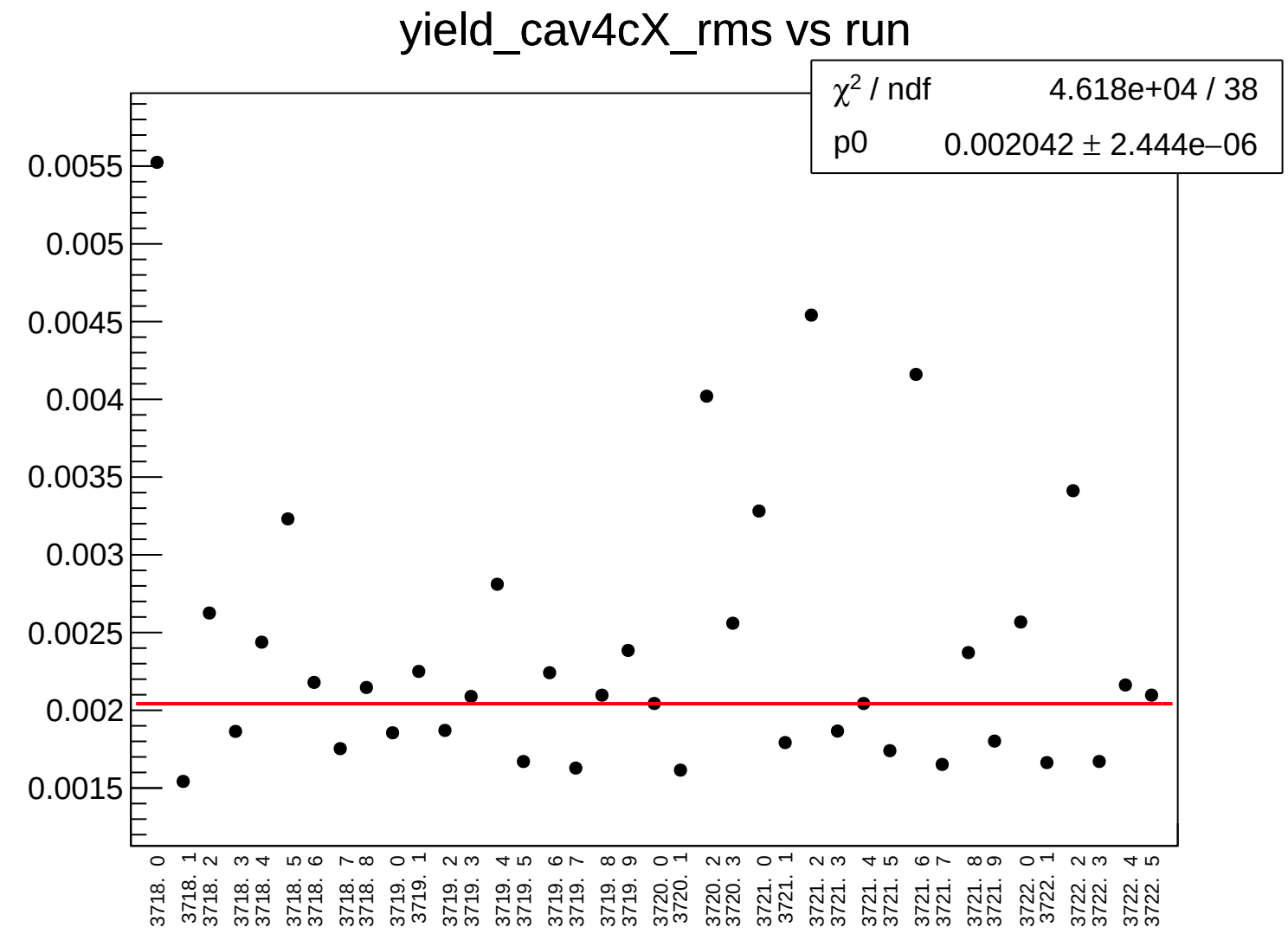

yield_cav4bX_rms vs run
×10⁻³
χ² / ndf 319.8 / 38
p0 0.0001457 ± 1.689e−07
0.154
0.152
0.15
0.148
0.146
0.144
0.142
0.14
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

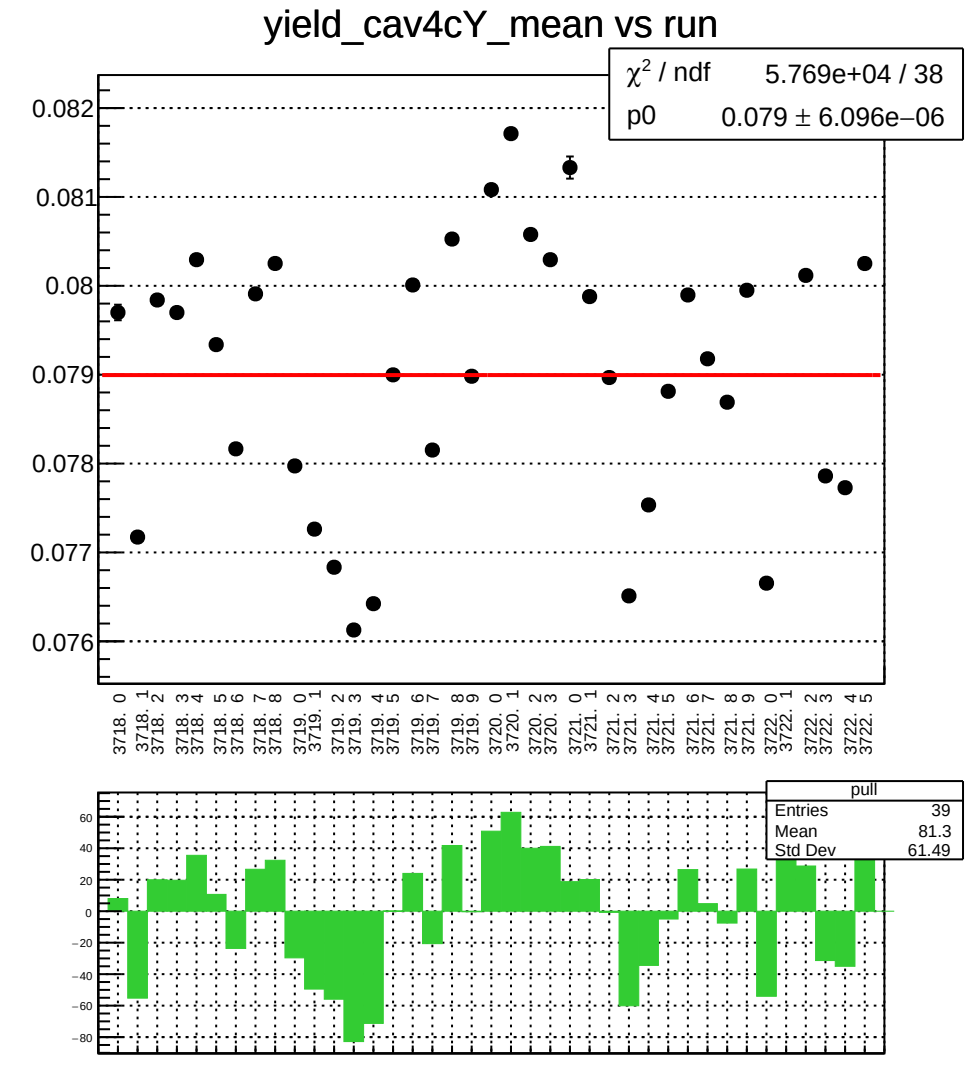

yield_cav4bY_mean vs run
χ² / ndf 6.258e+06 / 38
p0 1.385 ± 0.0008215
pull
Entries 39
Mean −1312
Std Dev 1329

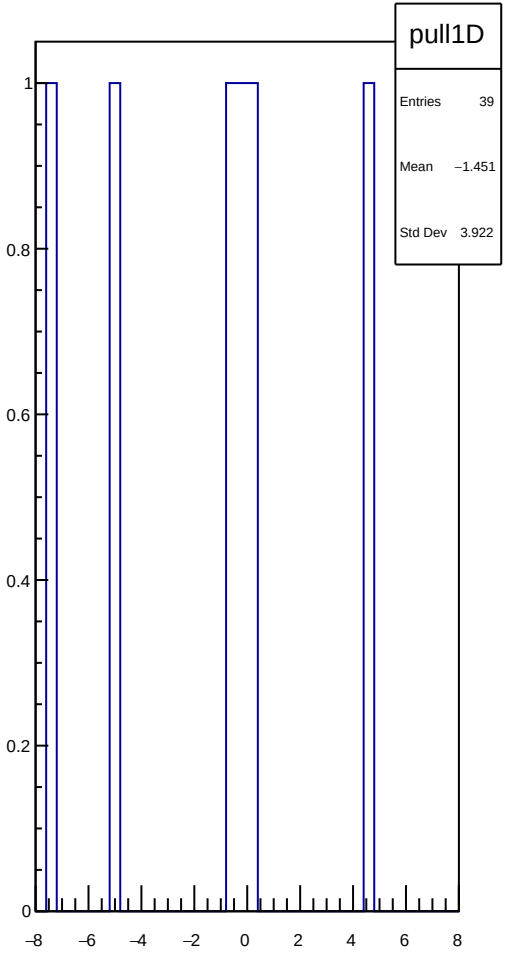

pull1D
Entries 39
Mean 0
Std Dev 0

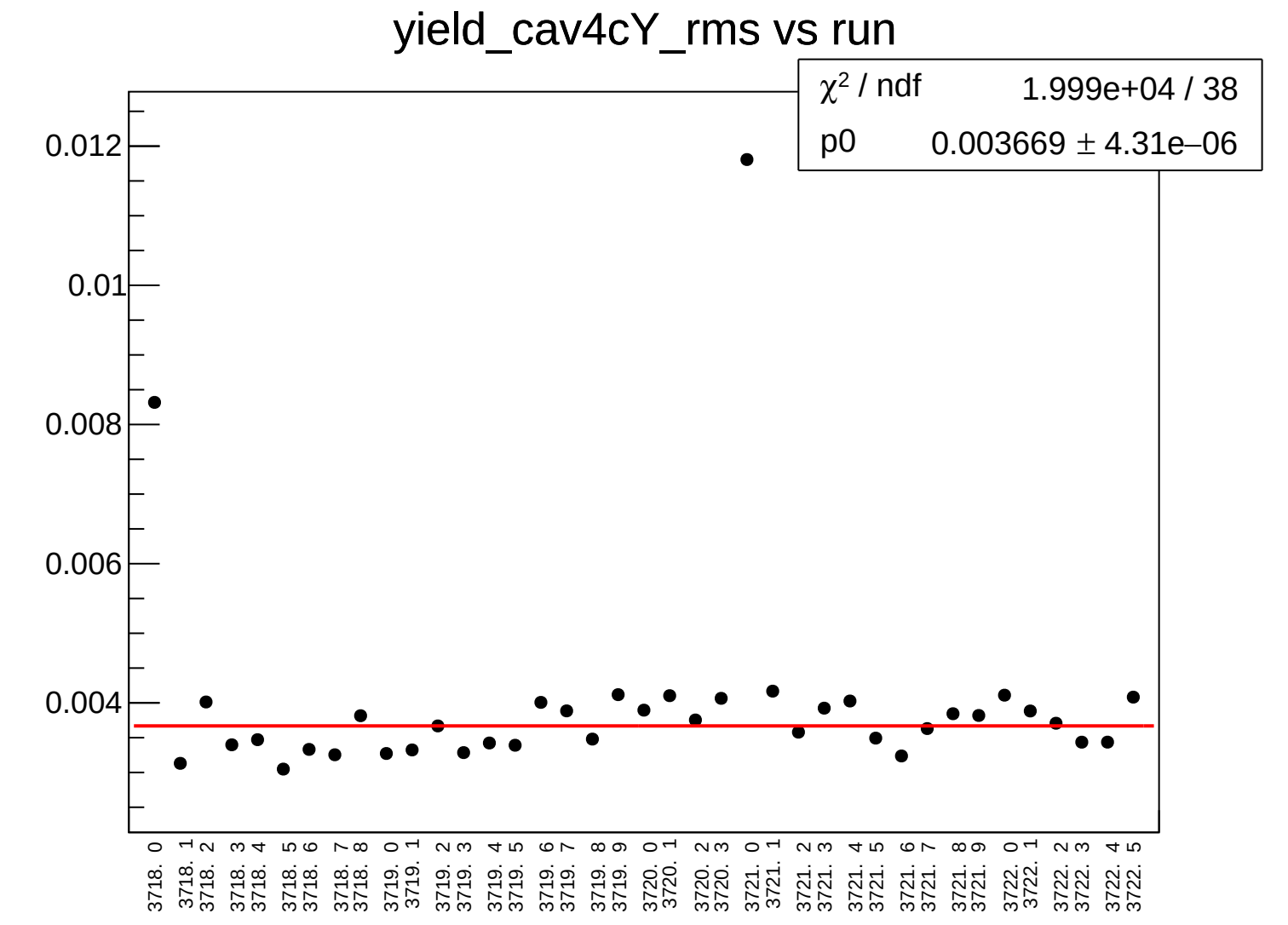

yield_cav4bY_rms vs run
χ² / ndf 2.288e+05 / 38
p0 0.4171 ± 0.0005809
2.5
2
1.5
1
0.5
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

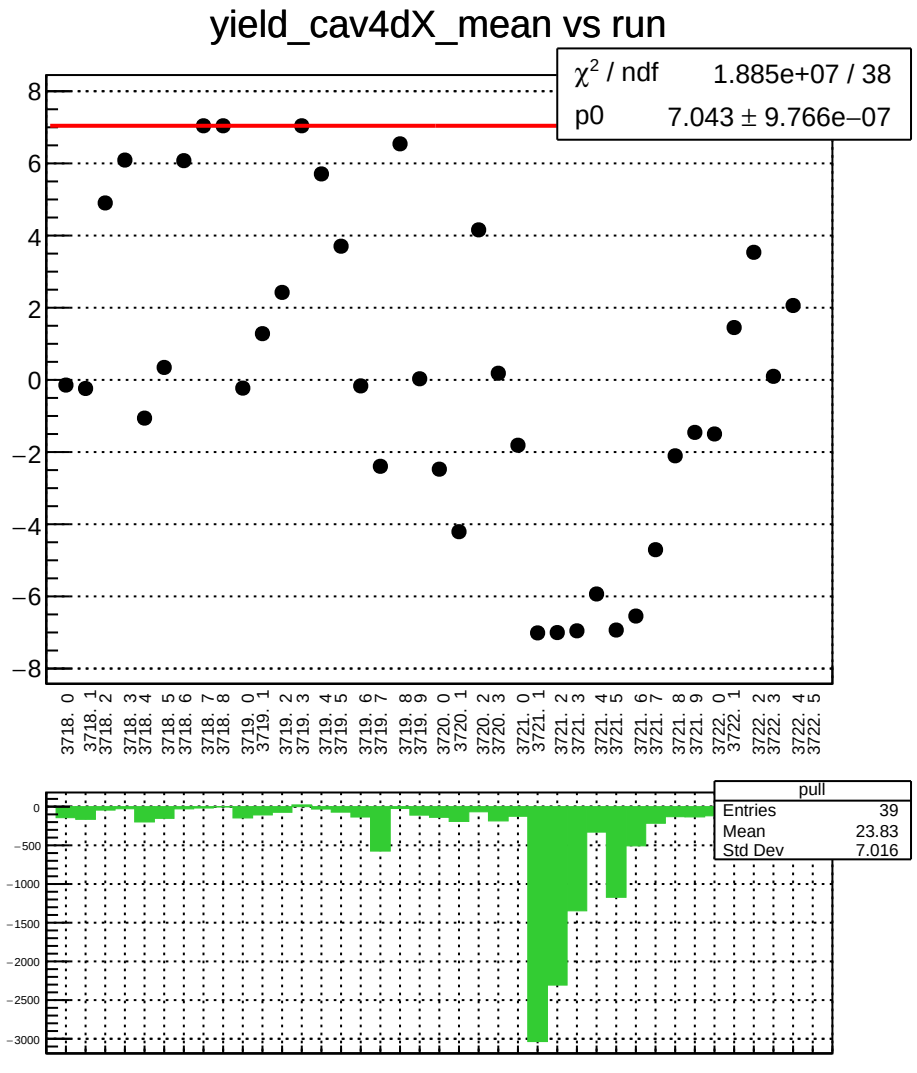

yield_cav4cX_mean vs run
χ² / ndf 4.142e+04 / 38
p0 0.03403 ± 3.456e−06
0.036
0.035
0.034
0.033
0.032
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 202.3
Std Dev 181.6
60
40
20
0
−20
−40
−60
−80
pull1D
Entries 39
Mean −2.912
Std Dev 3.673
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

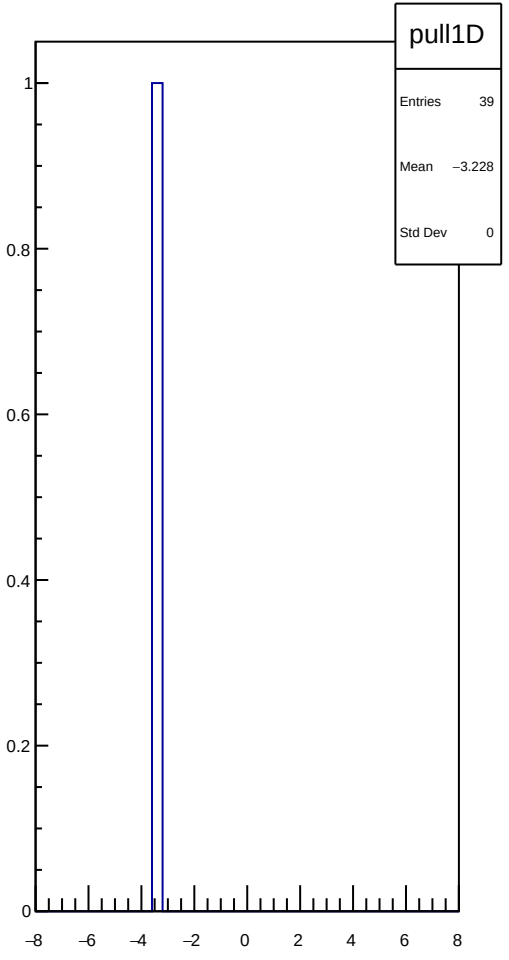

yield_cav4cX_rms vs run
χ² / ndf 4.618e+04 / 38
p0 0.002042 ± 2.444e−06
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

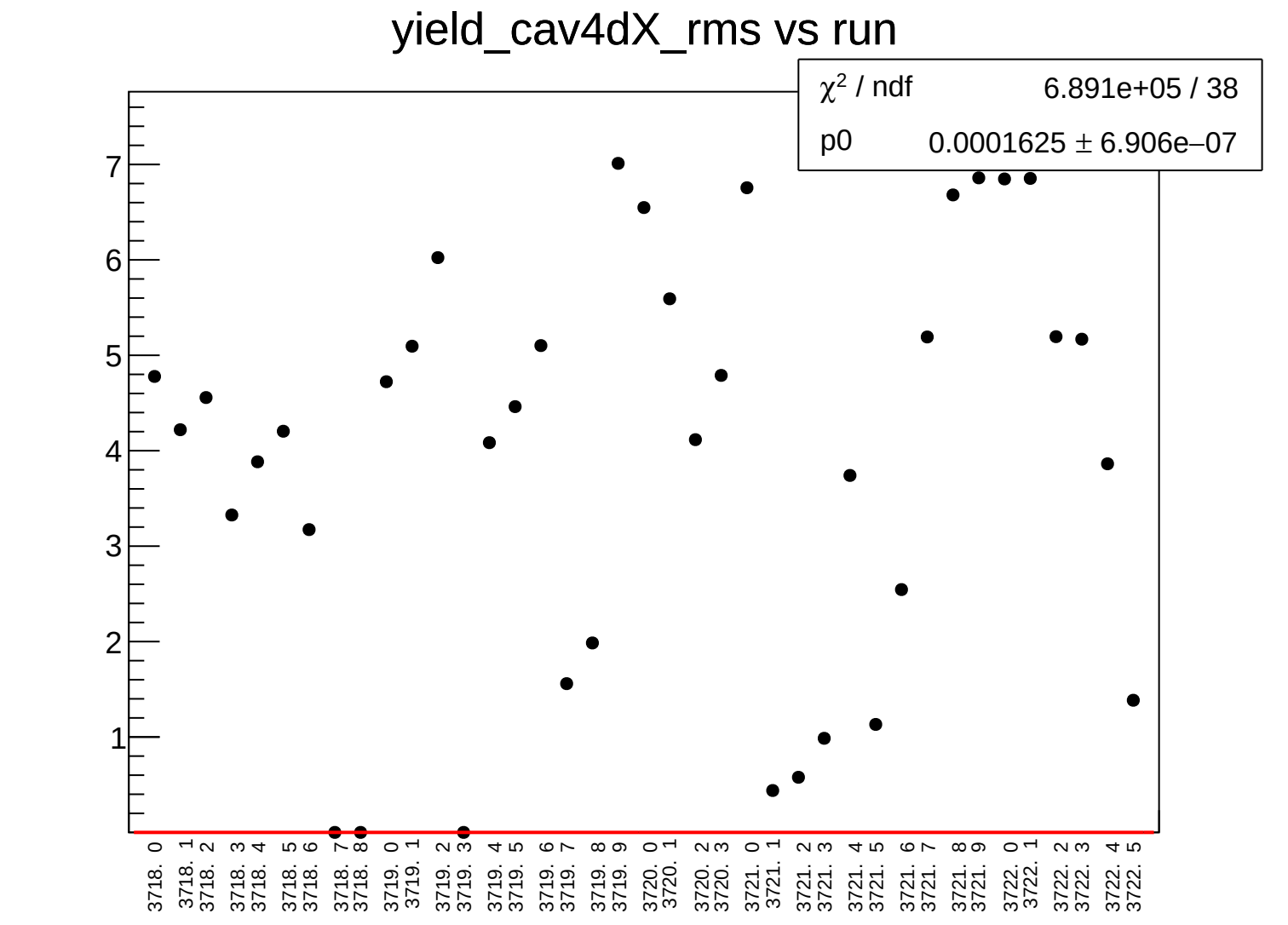

yield_cav4cY_mean vs run
χ² / ndf 5.769e+04 / 38
p0 0.079 ± 6.096e−06
0.082
0.081
0.08
0.079
0.078
0.077
0.076
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 81.3
Std Dev 61.49
60
40
20
0
−20
−40
−60
−80

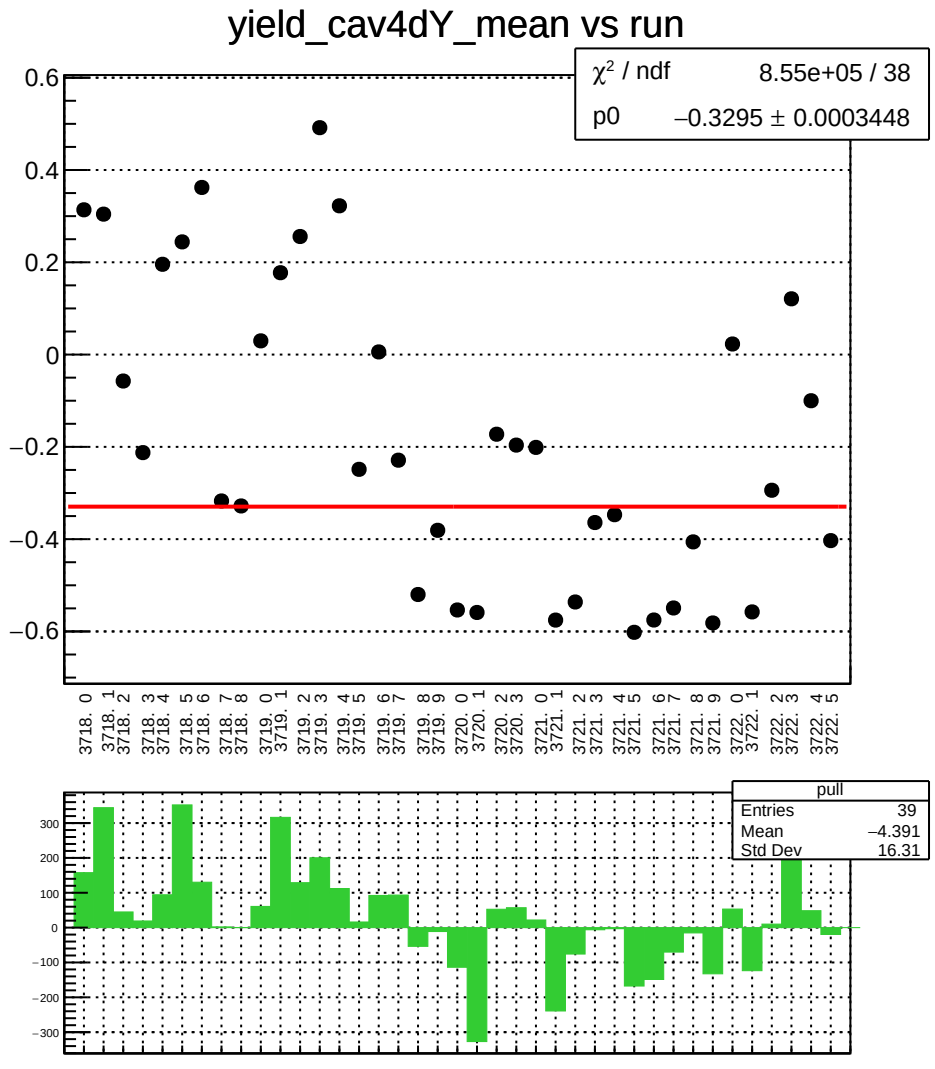

pull1D
Entries 39
Mean −1.451
Std Dev 3.922
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

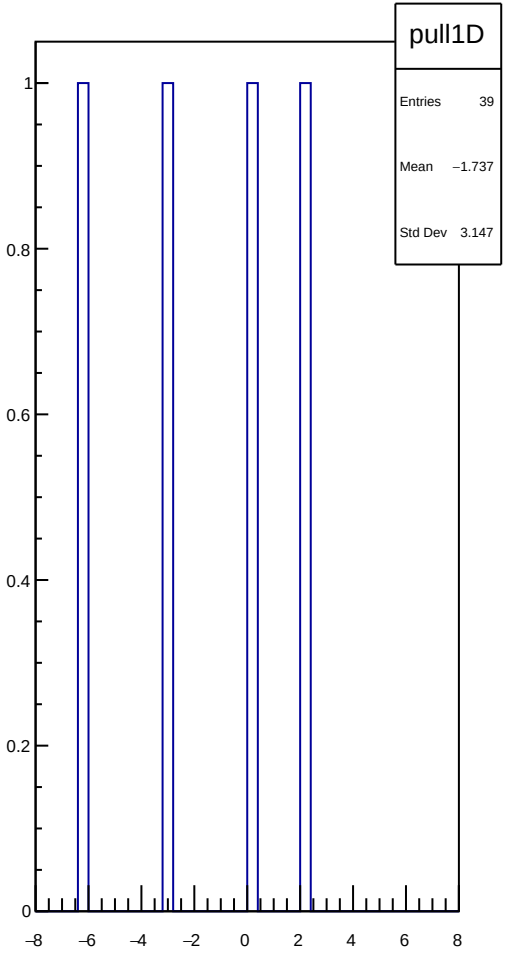

yield_cav4cY_rms vs run
χ² / ndf 1.999e+04 / 38
p0 0.003669 ± 4.31e–06
0.012
0.01
0.008
0.006
0.004
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

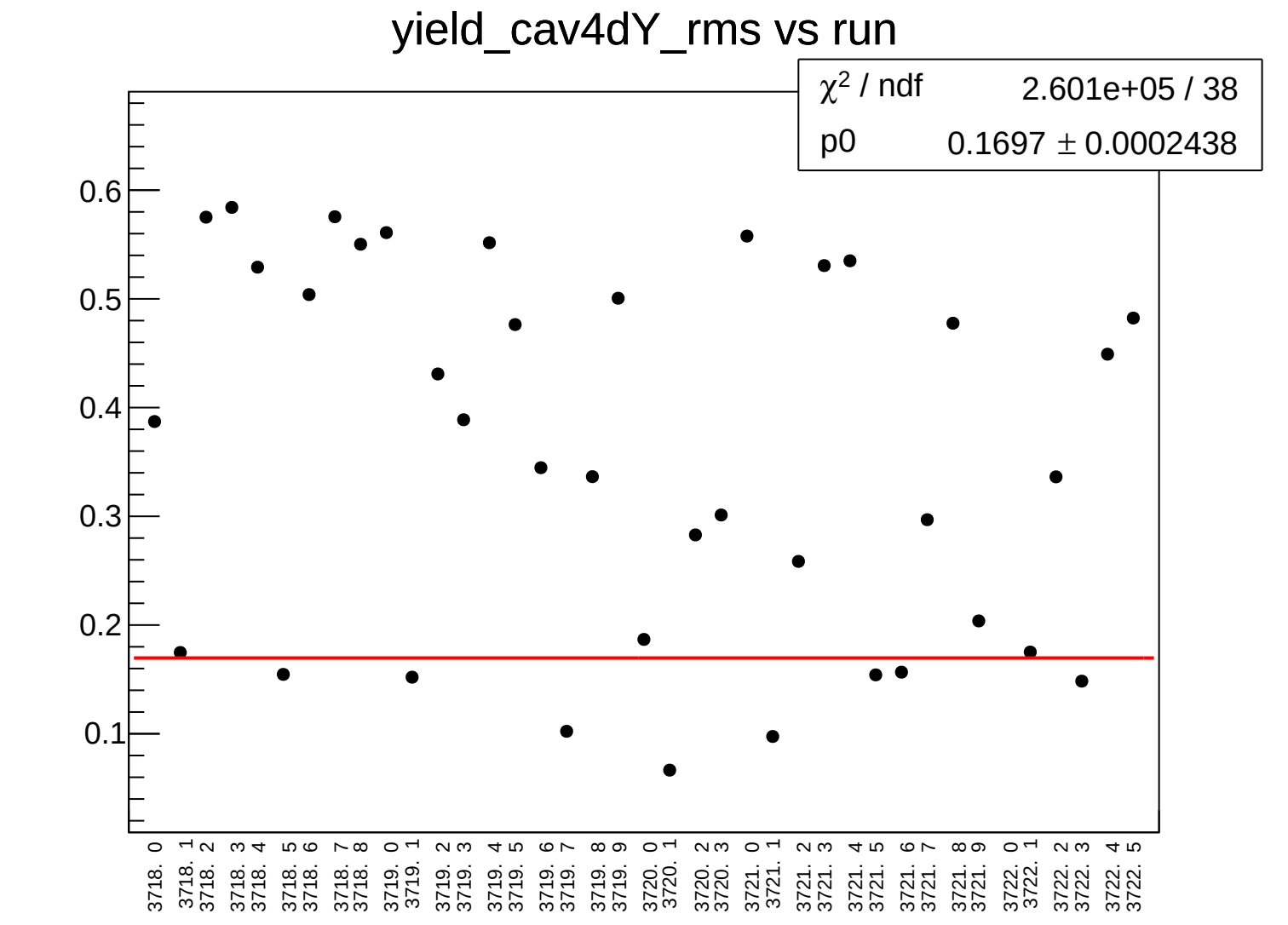

yield_cav4dX_mean vs run
χ² / ndf 1.885e+07 / 38
p0 7.043 ± 9.766e−07
pull
Entries 39
Mean 23.83
Std Dev 7.016

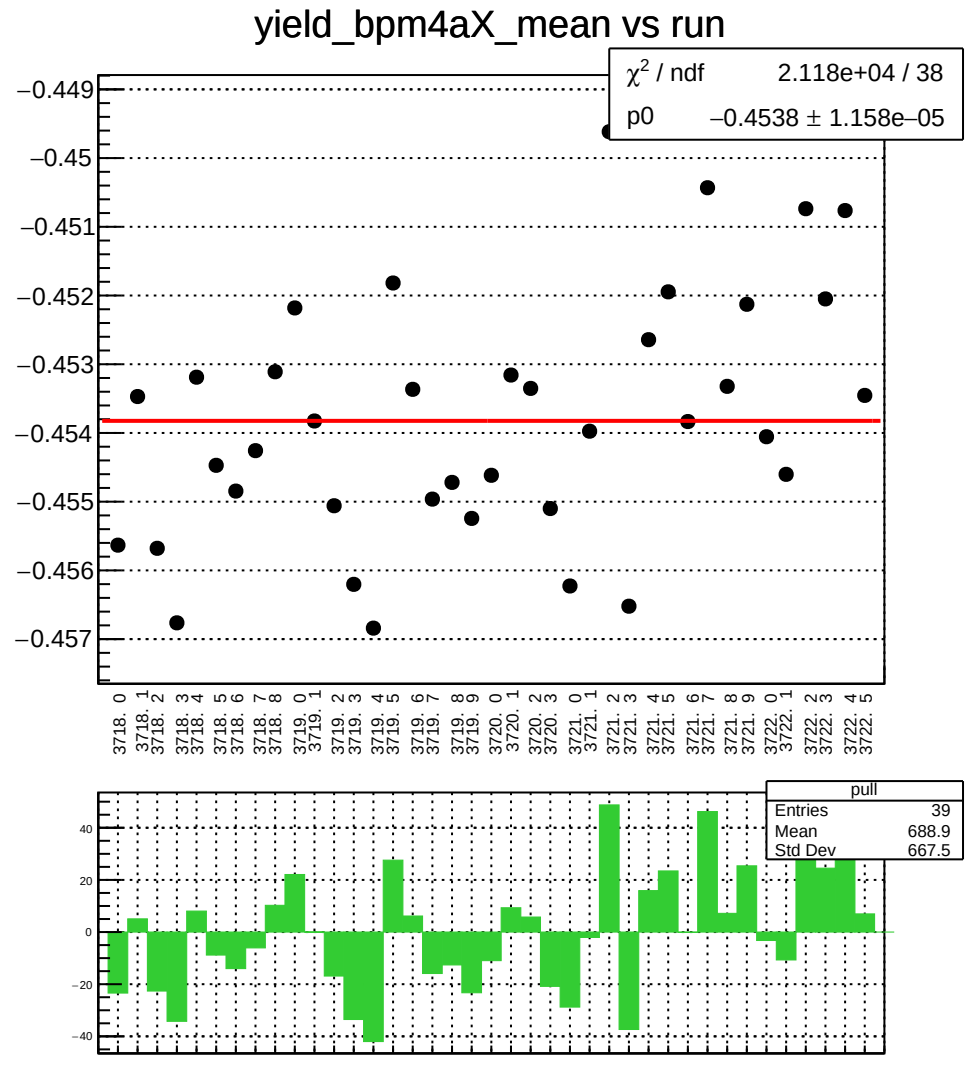

pull1D
Entries 39
Mean −3.228
Std Dev 0

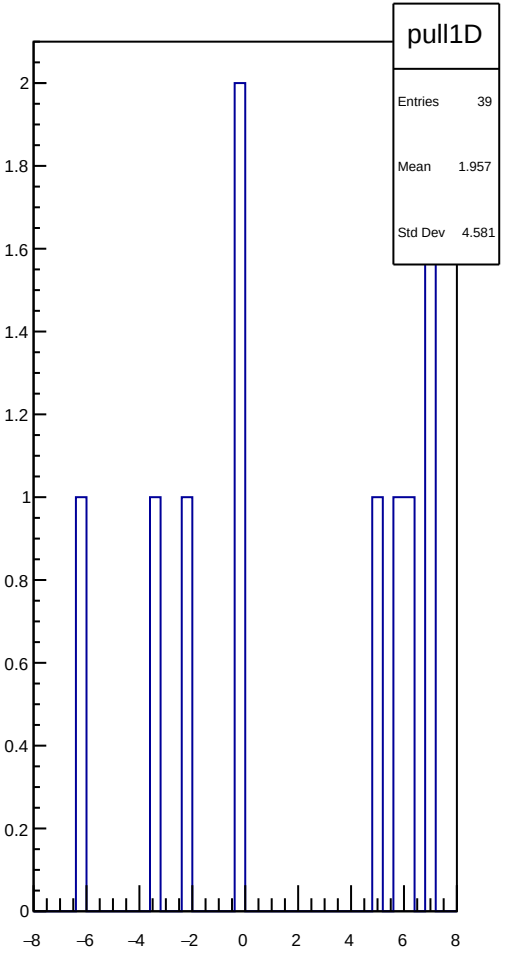

yield_cav4dX_rms vs run
χ² / ndf 6.891e+05 / 38
p0 0.0001625 ± 6.906e−07
7
6
5
4
3
2
1
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

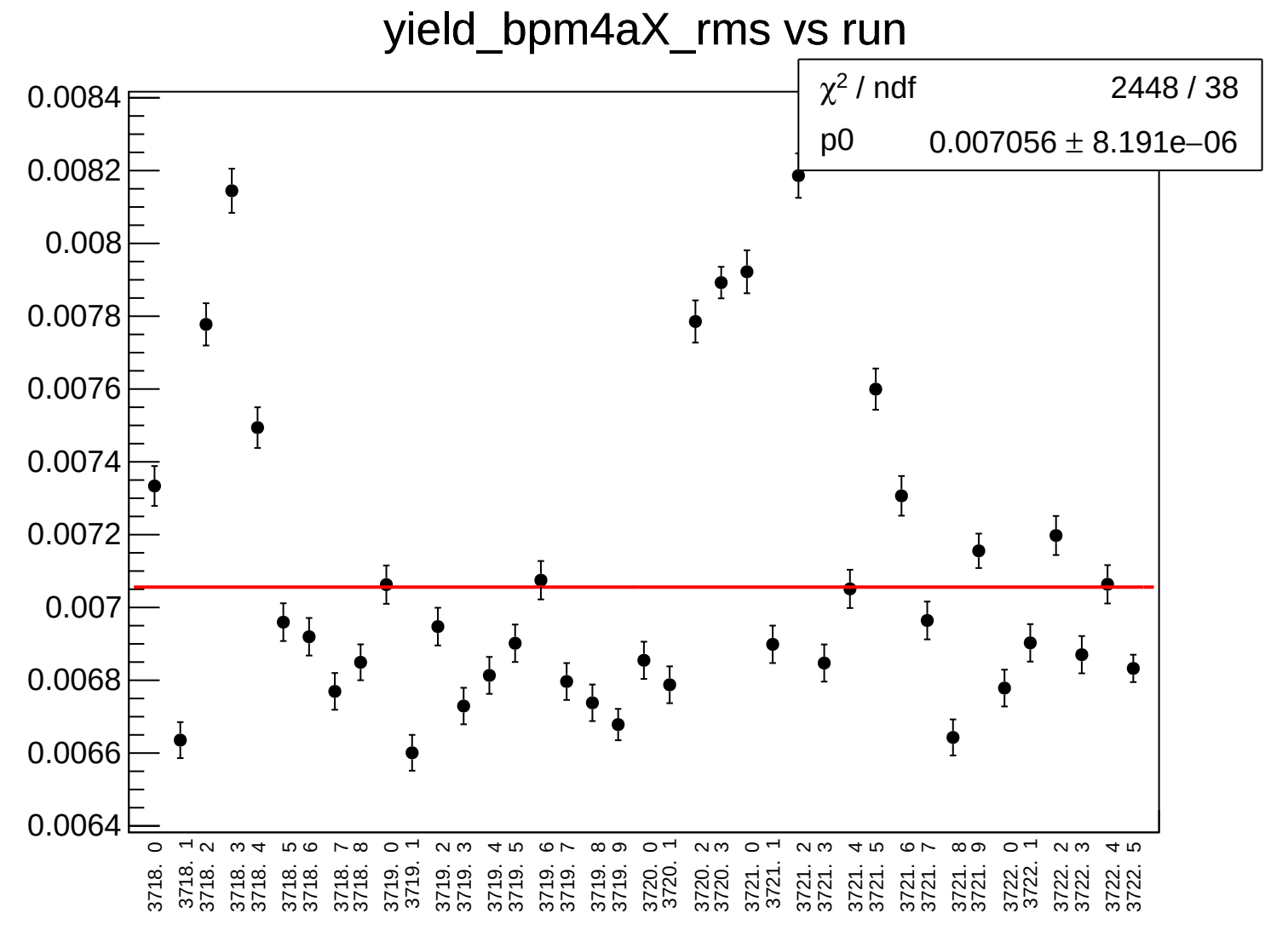

yield_cav4dY_mean vs run
χ² / ndf 8.55e+05 / 38
p0 −0.3295 ± 0.0003448
pull
Entries 39
Mean −4.391
Std Dev 16.31

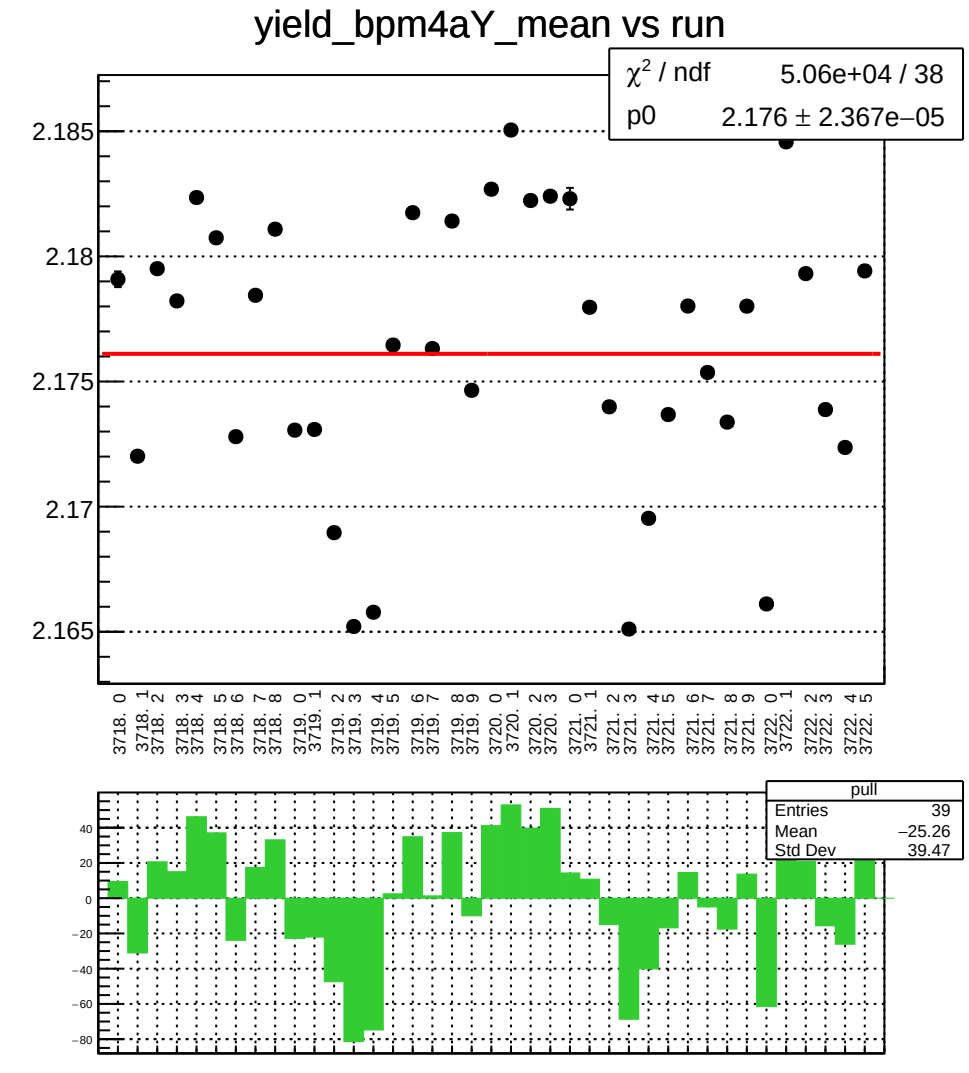

pull1D
Entries 39
Mean −1.737
Std Dev 3.147

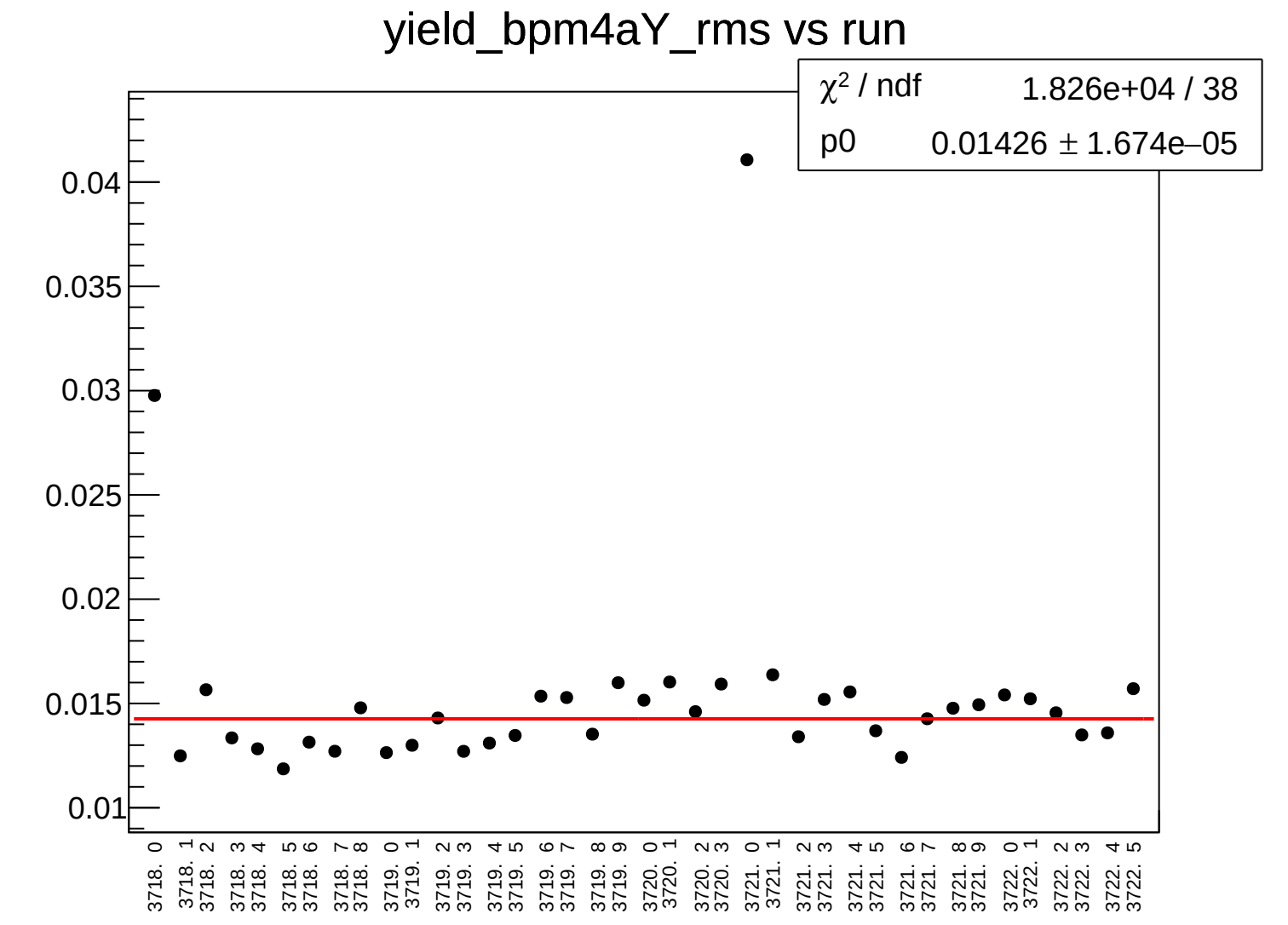

yield_cav4dY_rms vs run
χ² / ndf 2.601e+05 / 38
p0 0.1697 ± 0.0002438
0.6
0.5
0.4
0.3
0.2
0.1
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

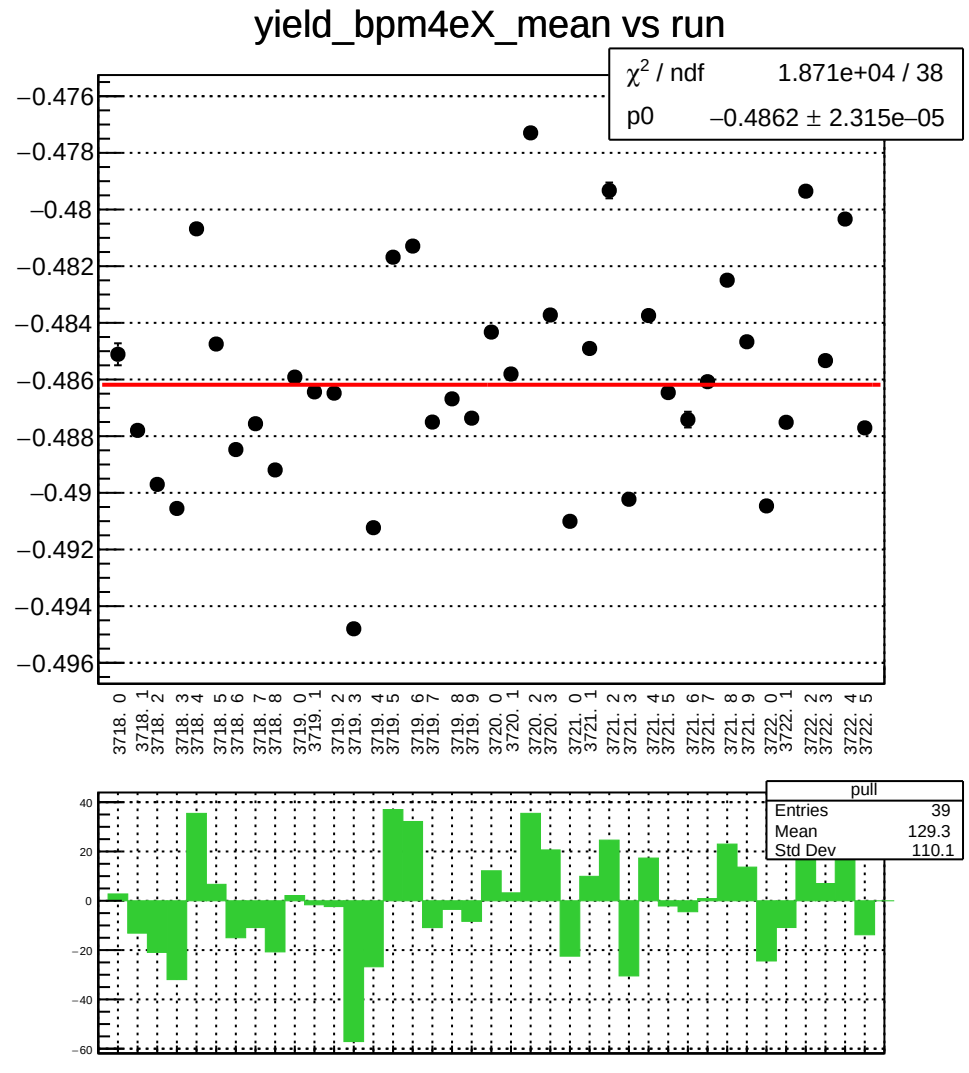

yield_bpm4aX_mean vs run
χ² / ndf 2.118e+04 / 38
p0 −0.4538 ± 1.158e−05
−0.449
−0.45
−0.451
−0.452
−0.453
−0.454
−0.455
−0.456
−0.457
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 688.9
Std Dev 667.5
40
20
0
−20
−40

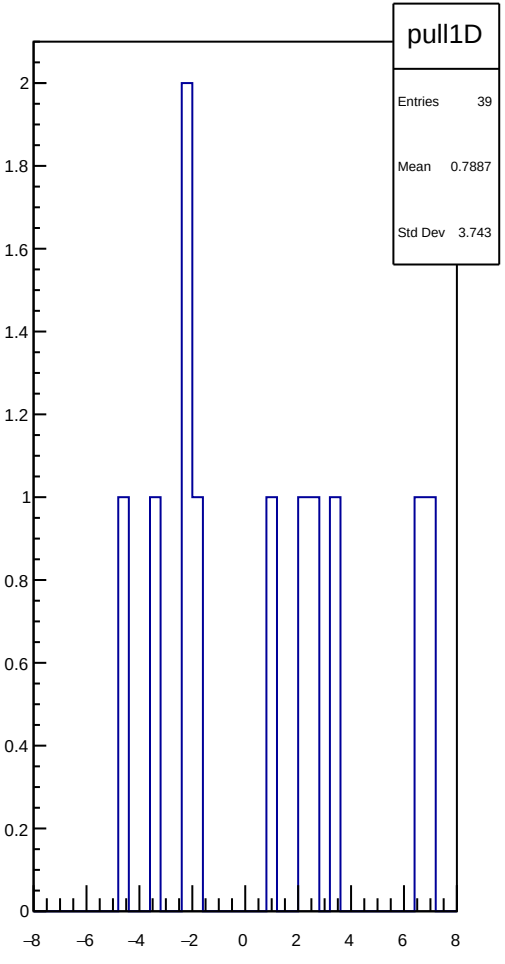

pull1D
Entries 39
Mean 1.957
Std Dev 4.581
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

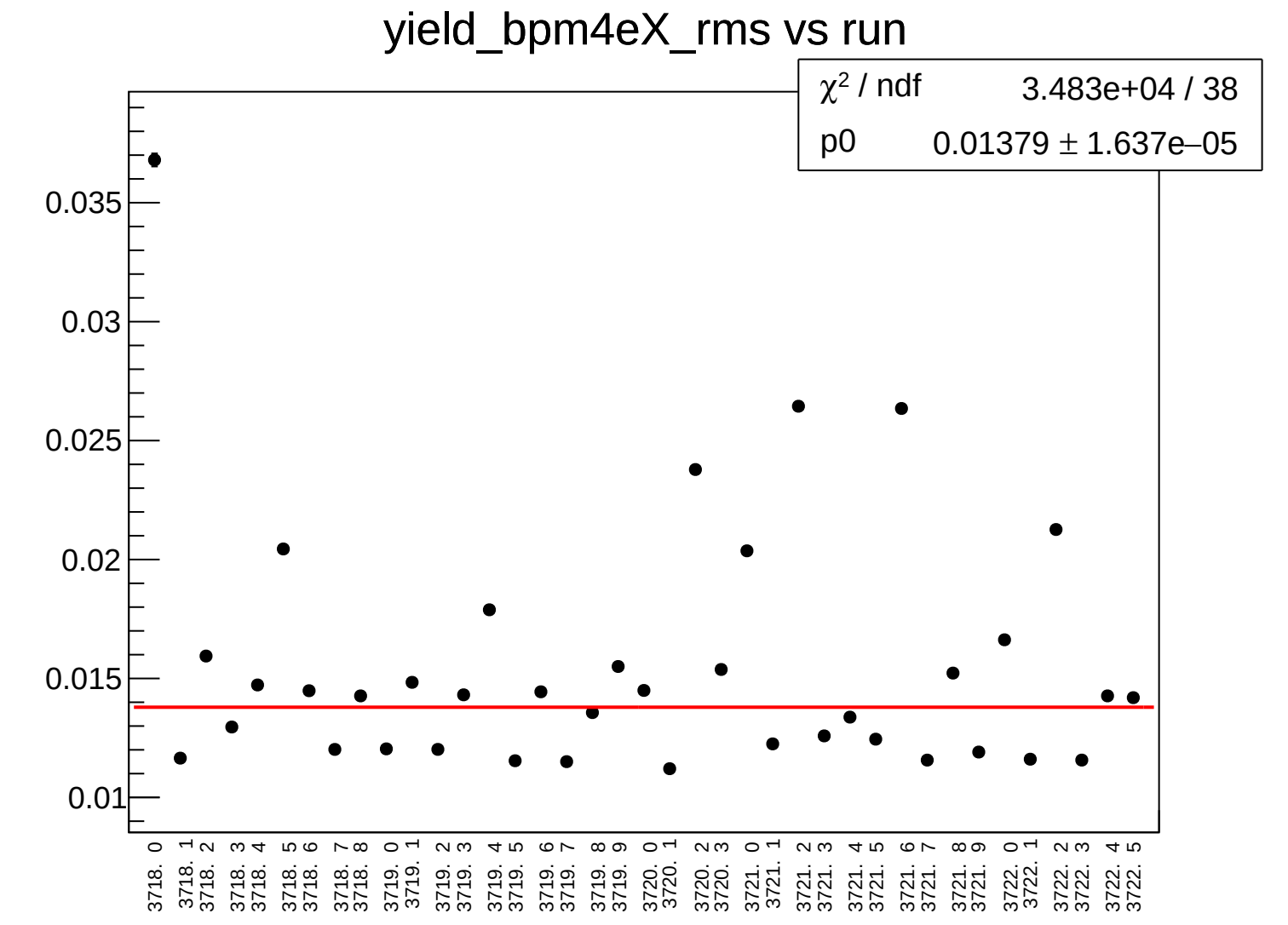

yield_bpm4aX_rms vs run
χ² / ndf 2448 / 38
p0 0.007056 ± 8.191e−06
0.0084
0.0082
0.008
0.0078
0.0076
0.0074
0.0072
0.007
0.0068
0.0066
0.0064
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

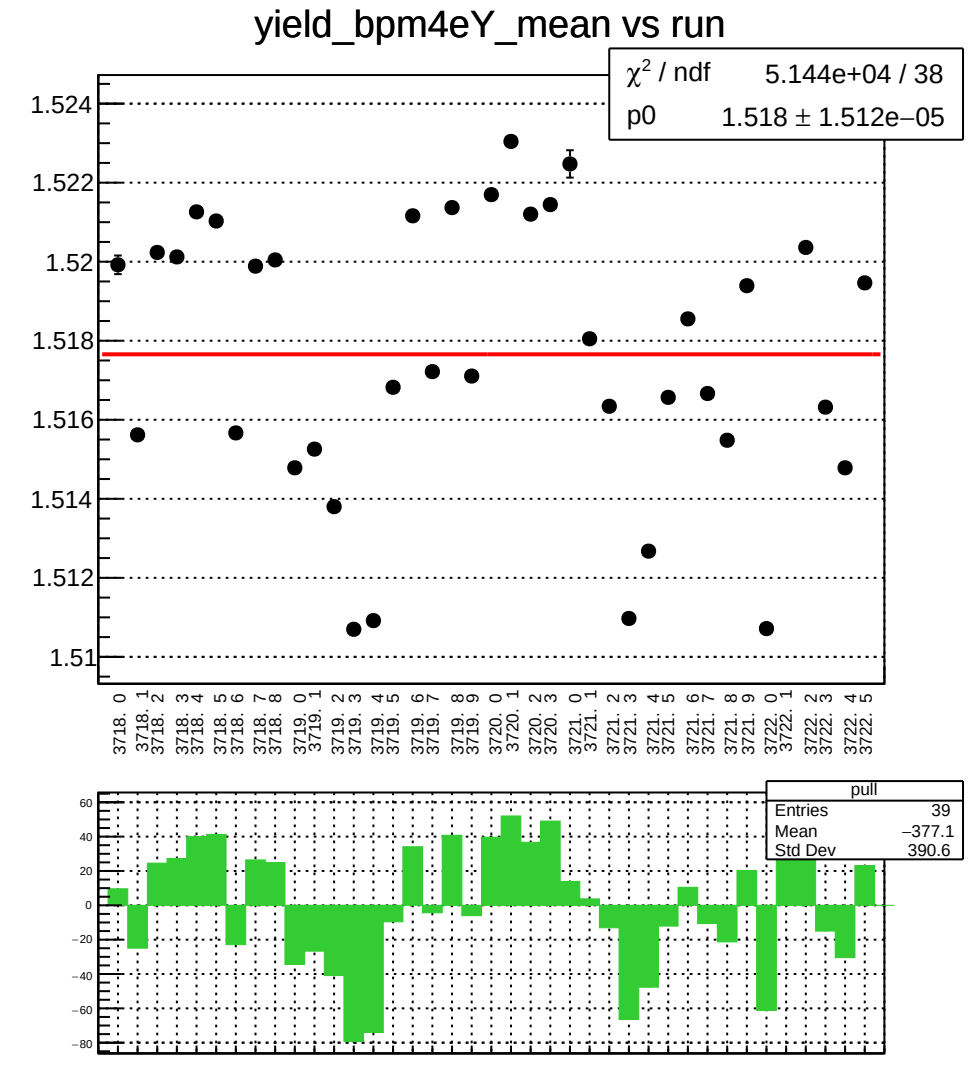

yield_bpm4aY_mean vs run
χ² / ndf 5.06e+04 / 38
p0 2.176 ± 2.367e−05
2.185
2.18
2.175
2.17
2.165
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −25.26
Std Dev 39.47
40
20
0
−20
−40
−60
−80
pull1D
Entries 39
Mean −0.3914
Std Dev 3.258
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

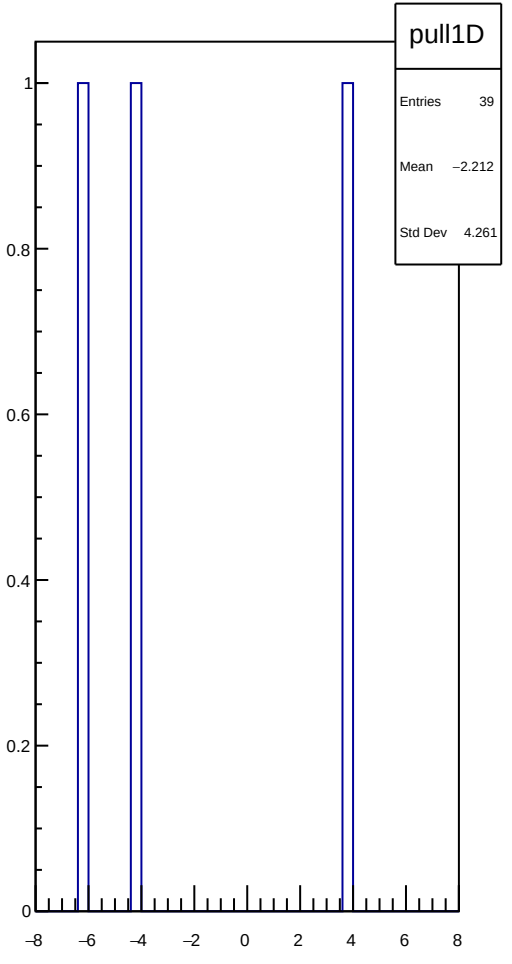

yield_bpm4aY_rms vs run
χ² / ndf 1.826e+04 / 38
p0 0.01426 ± 1.674e–05
0.04
0.035
0.03
0.025
0.02
0.015
0.01
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

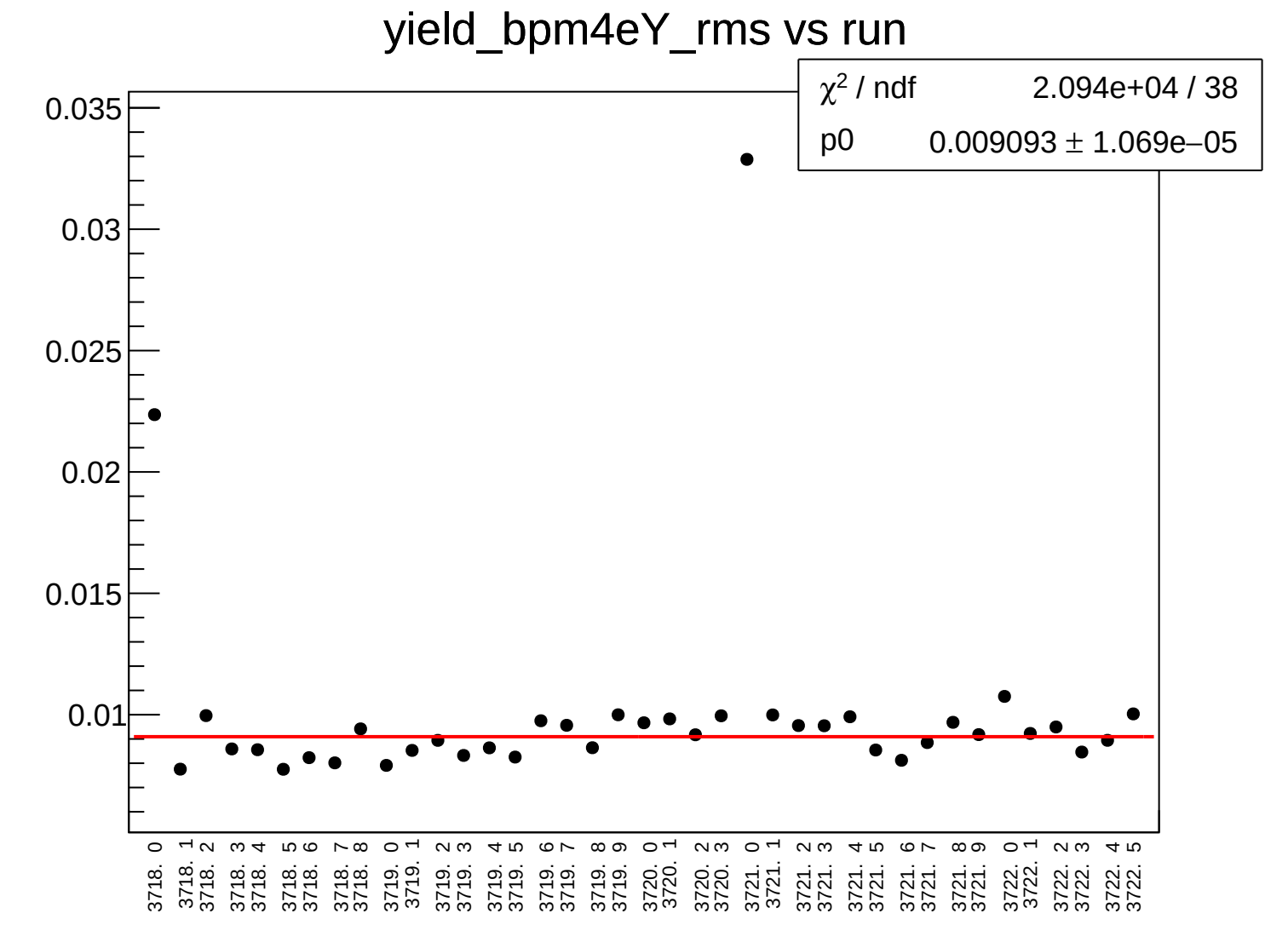

yield_bpm4eX_mean vs run
χ² / ndf 1.871e+04 / 38
p0 −0.4862 ± 2.315e−05
pull
Entries 39
Mean 129.3
Std Dev 110.1

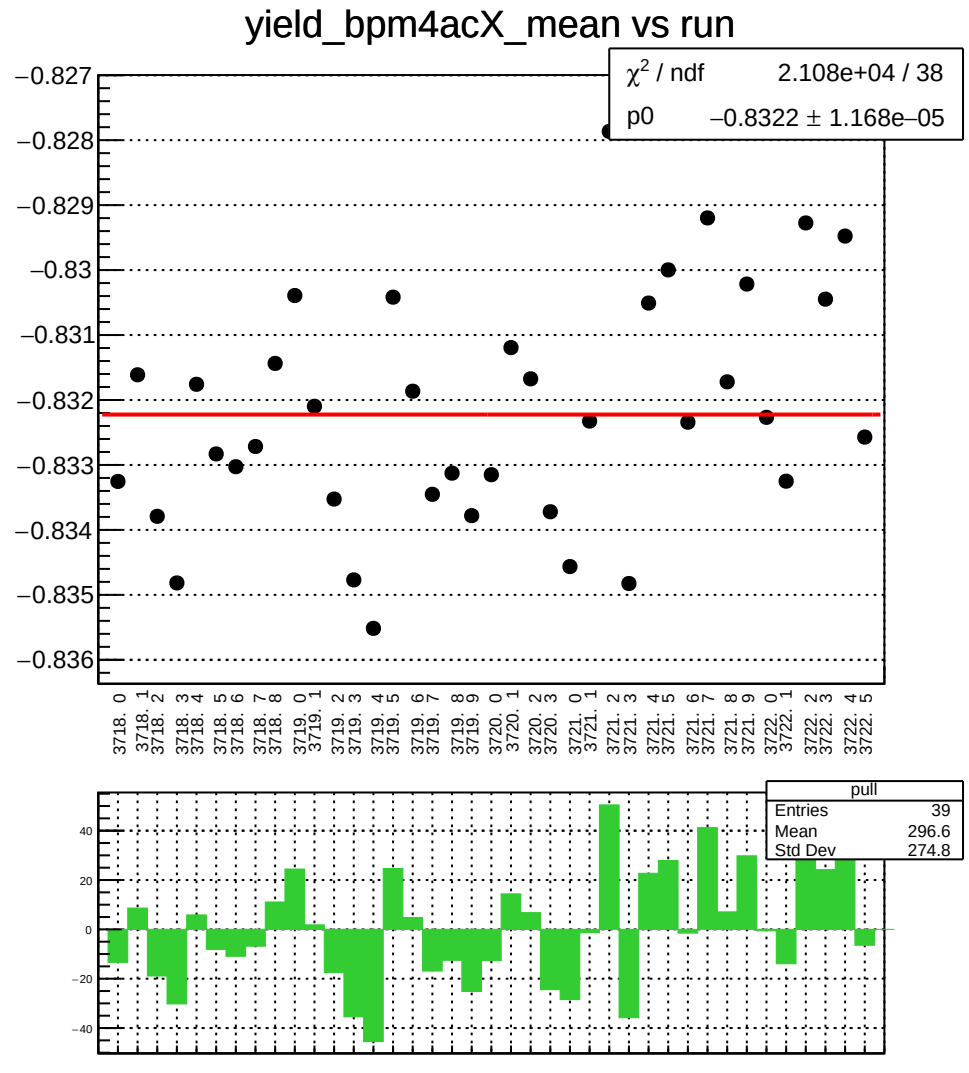

pull1D
Entries 39
Mean 0.7887
Std Dev 3.743

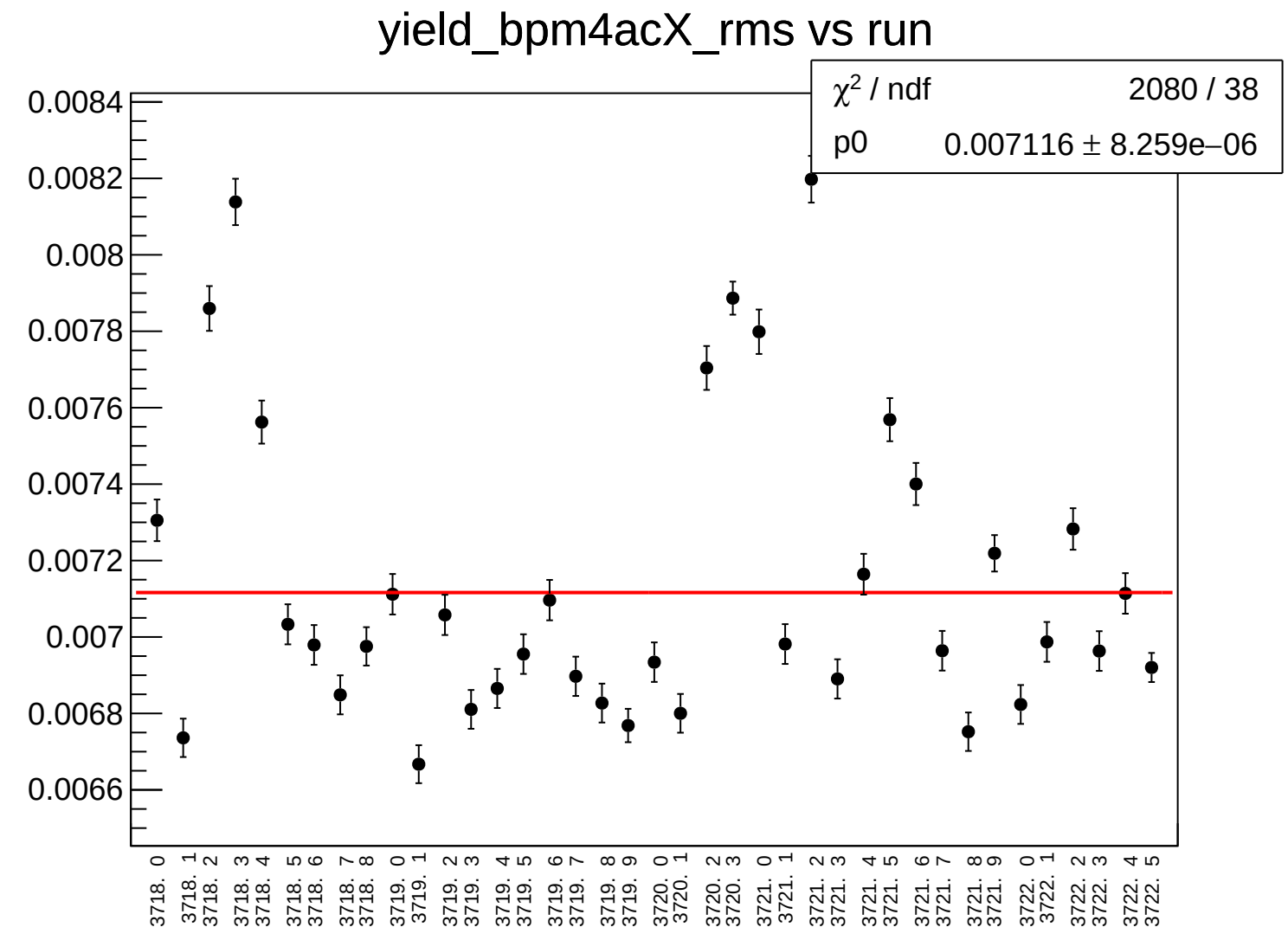

yield_bpm4eX_rms vs run
χ² / ndf 3.483e+04 / 38
p0 0.01379 ± 1.637e–05
0.035
0.03
0.025
0.02
0.015
0.01
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

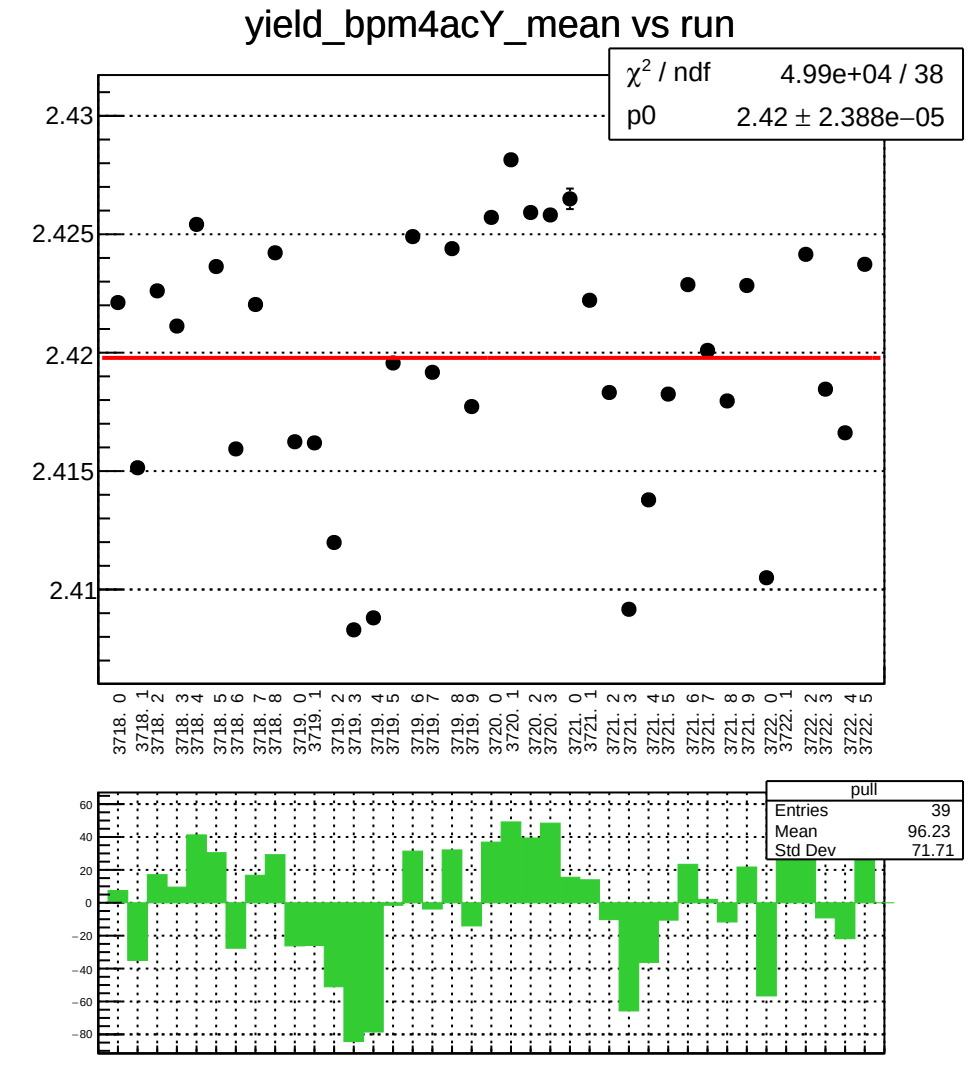

yield_bpm4eY_mean vs run
χ² / ndf 5.144e+04 / 38
p0 1.518 ± 1.512e−05
1.524
1.522
1.52
1.518
1.516
1.514
1.512
1.51
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −377.1
Std Dev 390.6
60
40
20
0
−20
−40
−60
−80

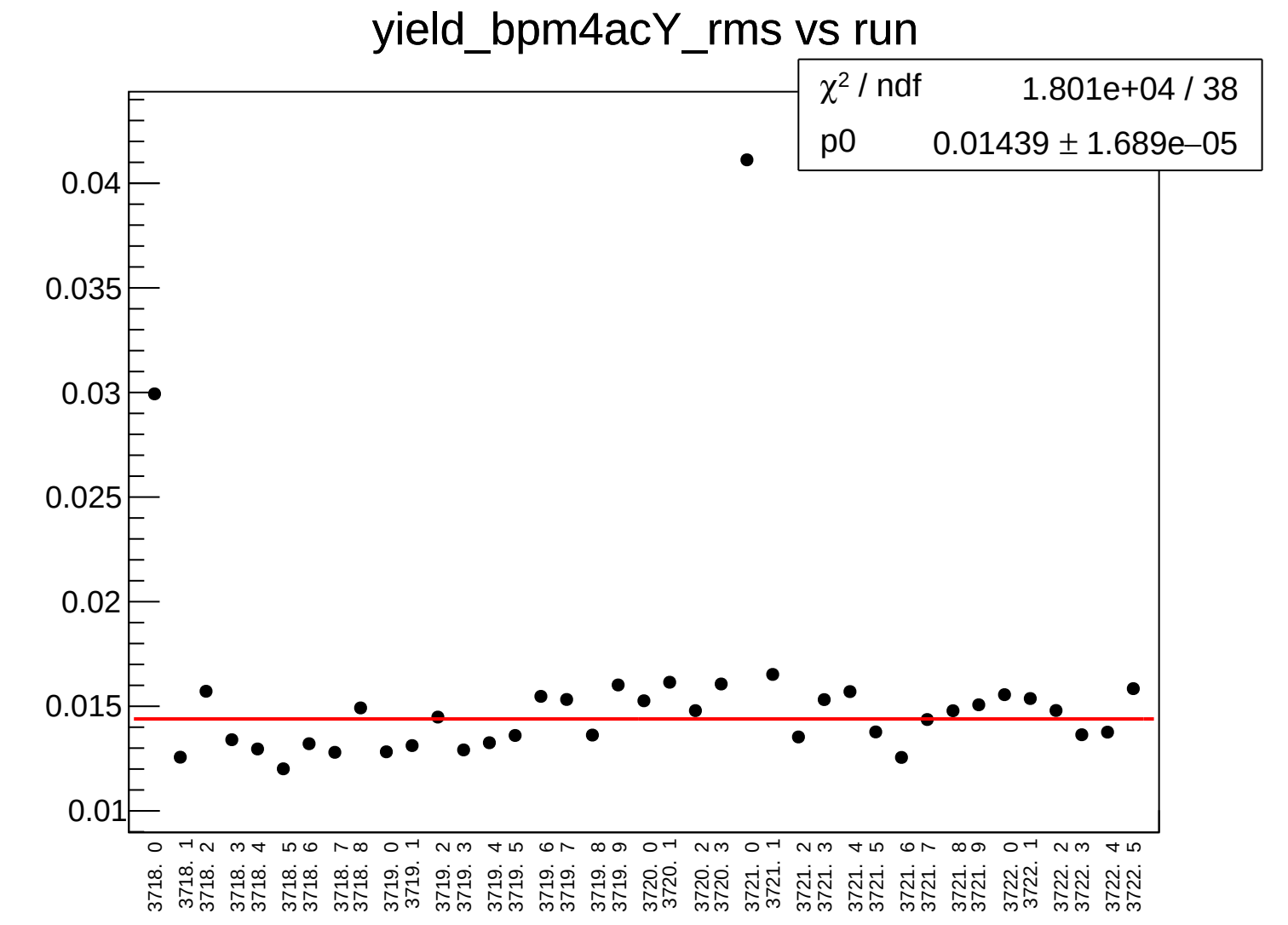

pull1D
Entries 39
Mean −2.212
Std Dev 4.261
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

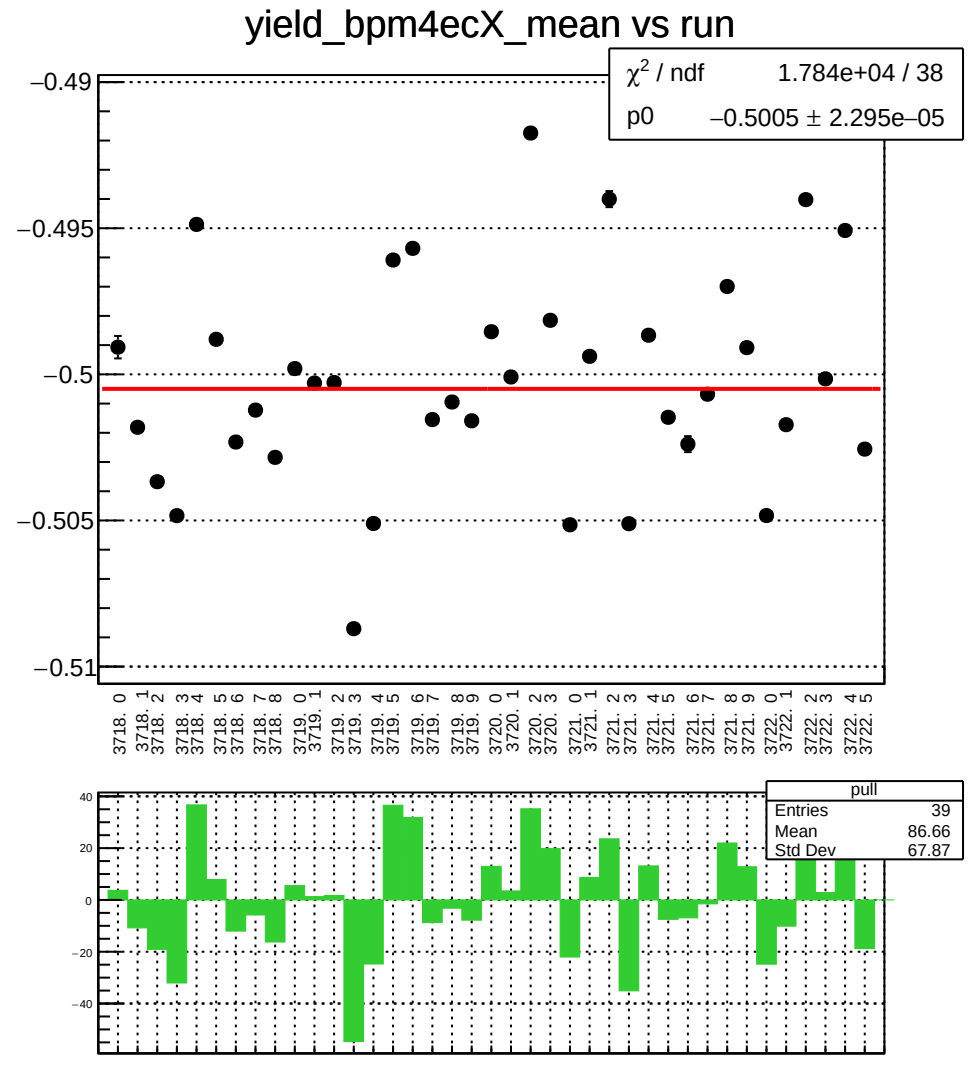

yield_bpm4eY_rms vs run
χ² / ndf 2.094e+04 / 38
p0 0.009093 ± 1.069e−05
0.035
0.03
0.025
0.02
0.015
0.01
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

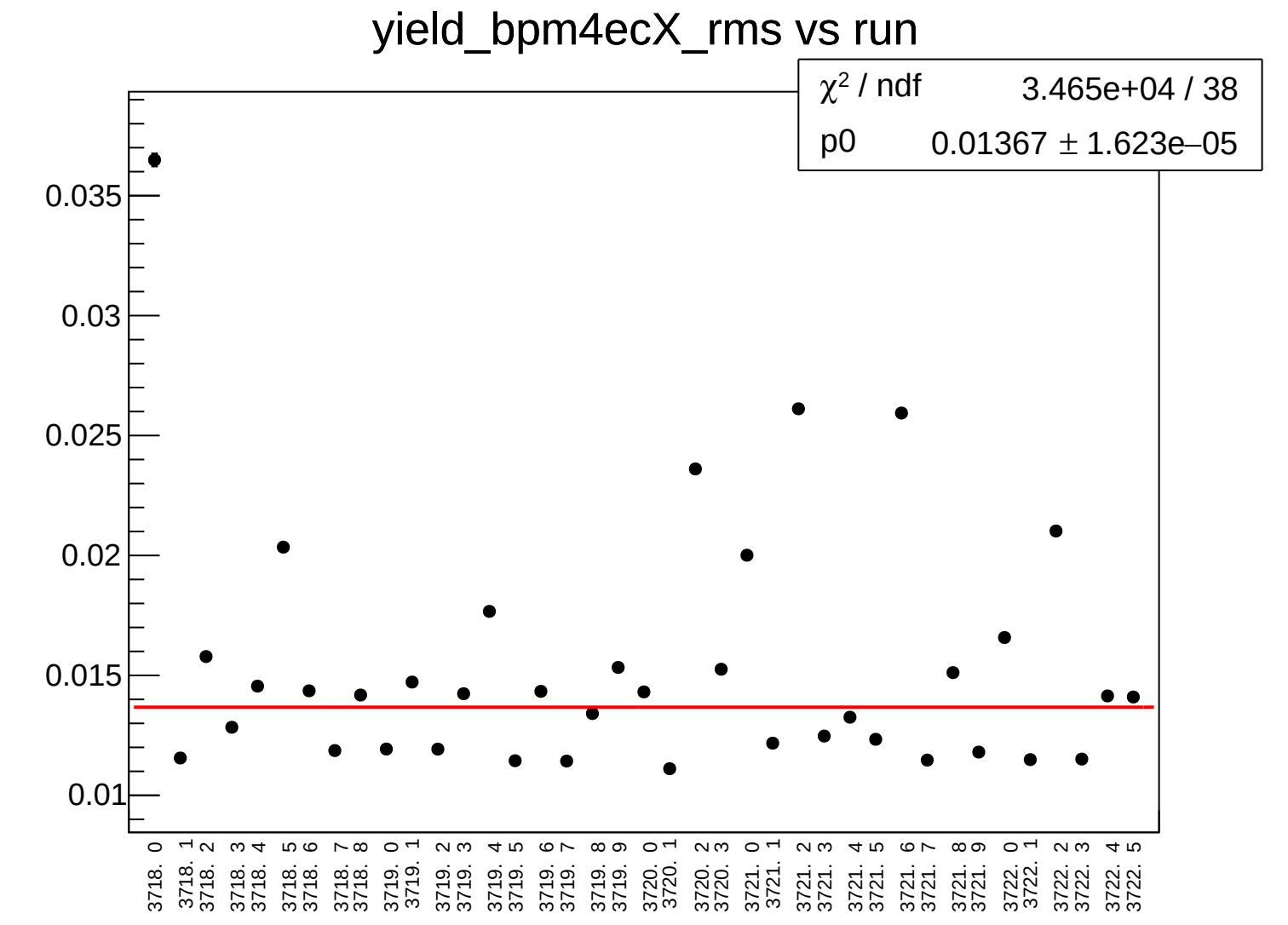

yield_bpm4acX_mean vs run
χ² / ndf 2.108e+04 / 38
p0 −0.8322 ± 1.168e−05
−0.827
−0.828
−0.829
−0.83
−0.831
−0.832
−0.833
−0.834
−0.835
−0.836
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 296.6
Std Dev 274.8
40
20
0
−20
−40
pull1D
Entries 39
Mean 0.9614
Std Dev 4.895
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

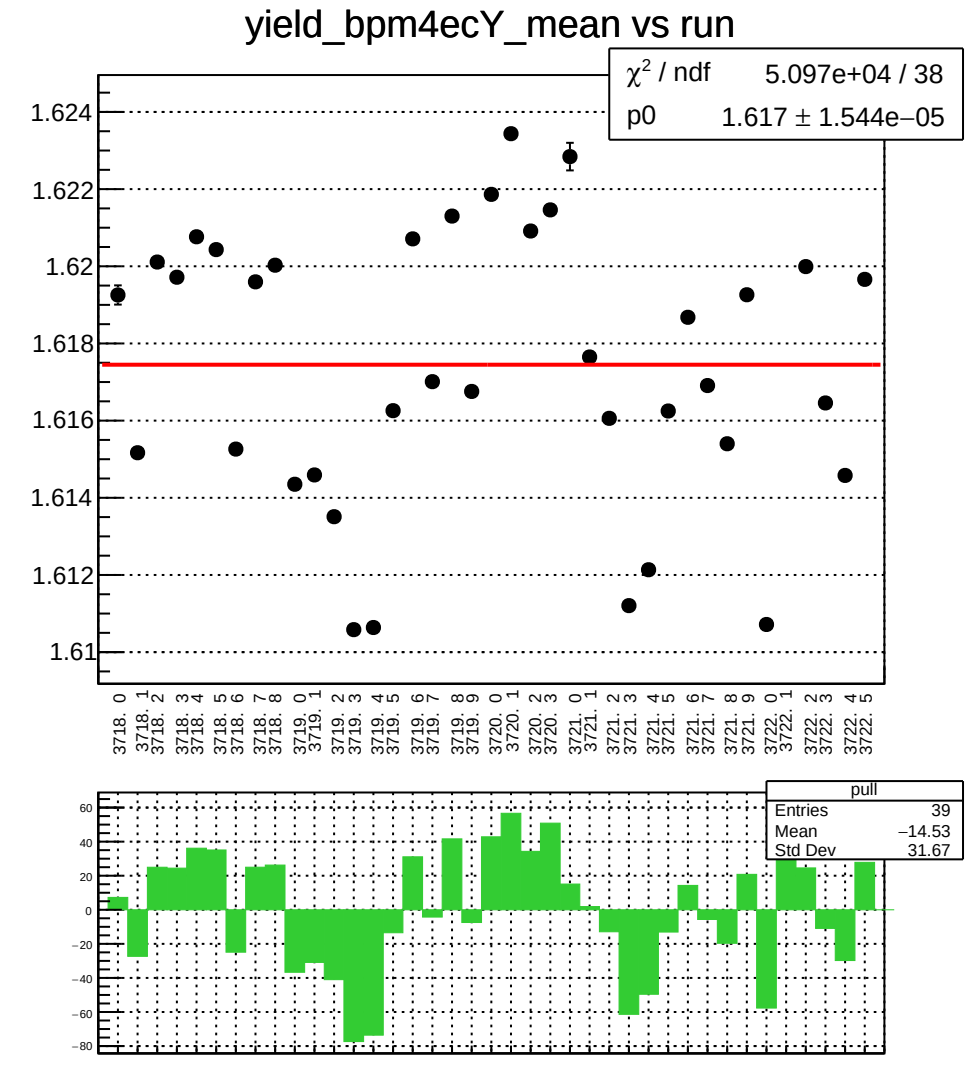

yield_bpm4acX_rms vs run
χ² / ndf 2080 / 38
p0 0.007116 ± 8.259e−06
0.0084
0.0082
0.008
0.0078
0.0076
0.0074
0.0072
0.007
0.0068
0.0066
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

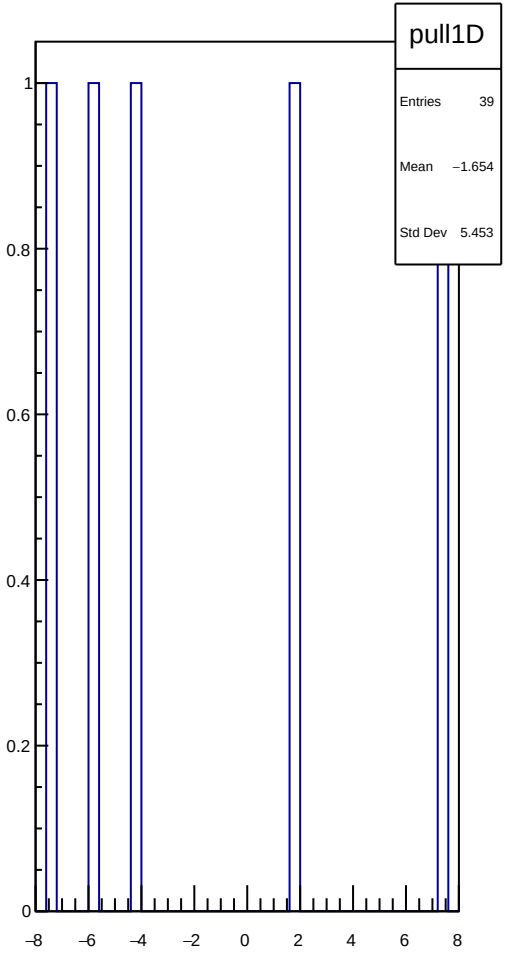

yield_bpm4acY_mean vs run
χ² / ndf 4.99e+04 / 38
p0 2.42 ± 2.388e−05
2.43
2.425
2.42
2.415
2.41
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 96.23
Std Dev 71.71
60
40
20
0
−20
−40
−60
−80
pull1D
Entries 39
Mean 1.053
Std Dev 4.221
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

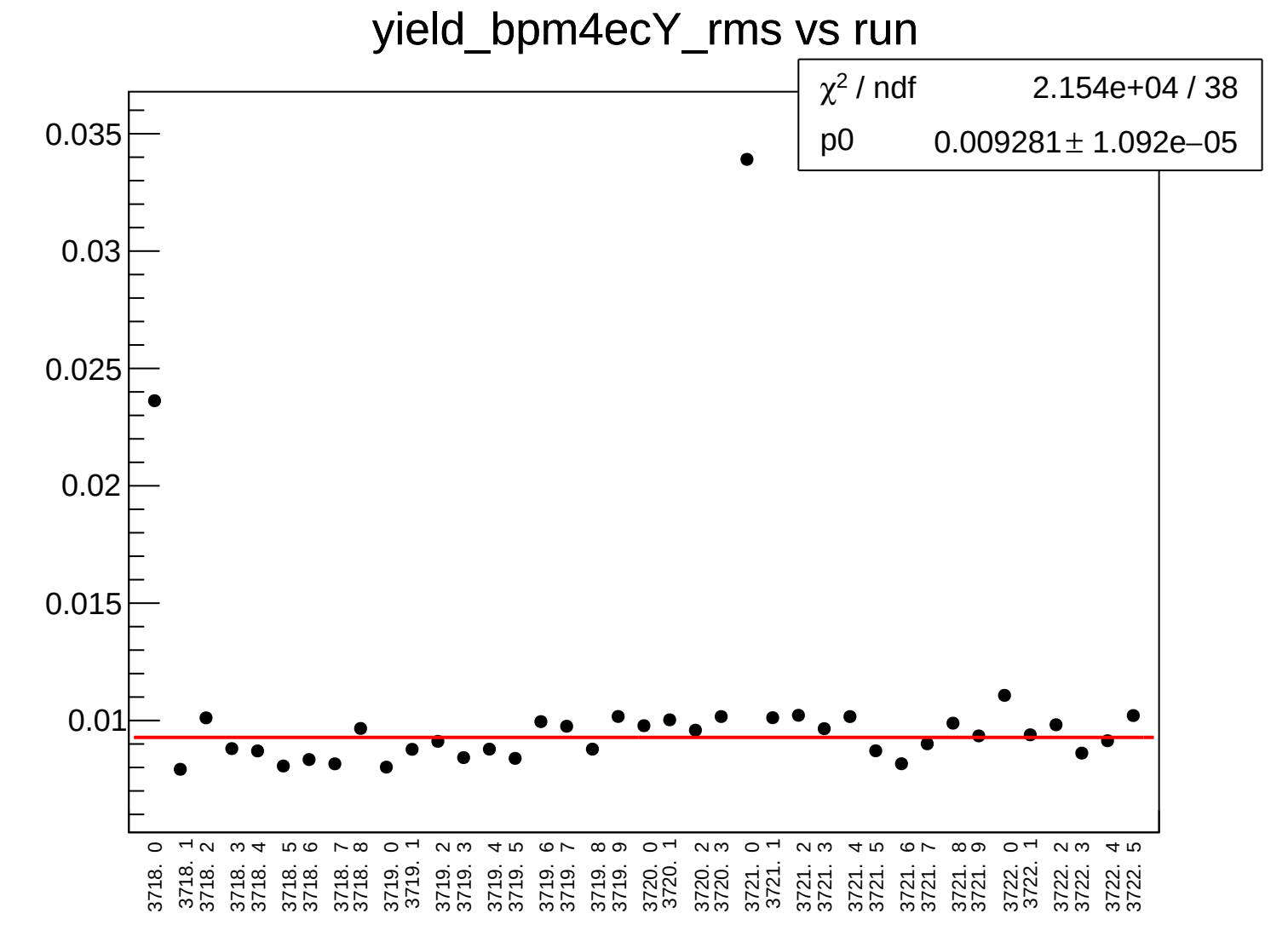

yield_bpm4acY_rms vs run
χ² / ndf 1.801e+04 / 38
p0 0.01439 ± 1.689e–05
0.04
0.035
0.03
0.025
0.02
0.015
0.01
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

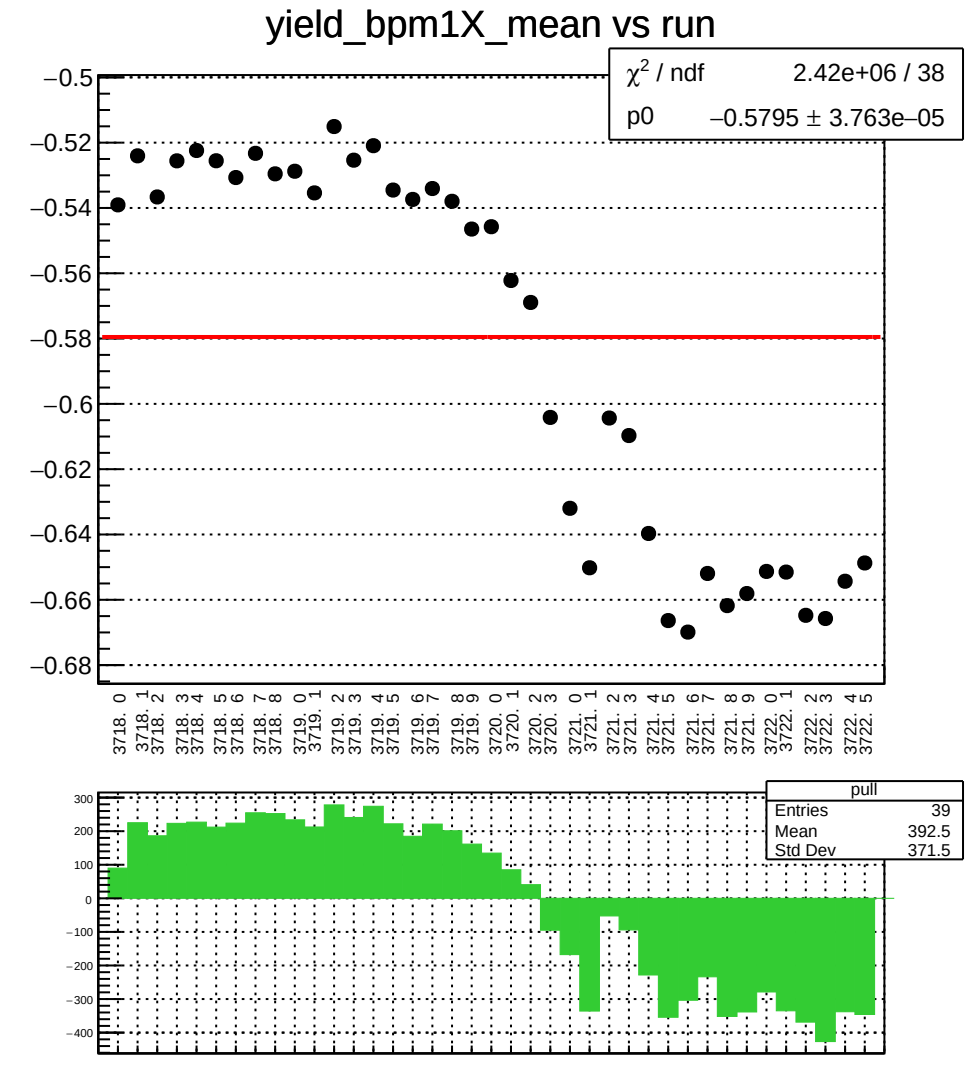

yield_bpm4ecX_mean vs run
χ² / ndf 1.784e+04 / 38
p0 −0.5005 ± 2.295e−05
−0.49
−0.495
−0.5
−0.505
−0.51
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 86.66
Std Dev 67.87
40
20
0
−20
−40
pull1D
Entries 39
Mean −0.4813
Std Dev 5.109
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

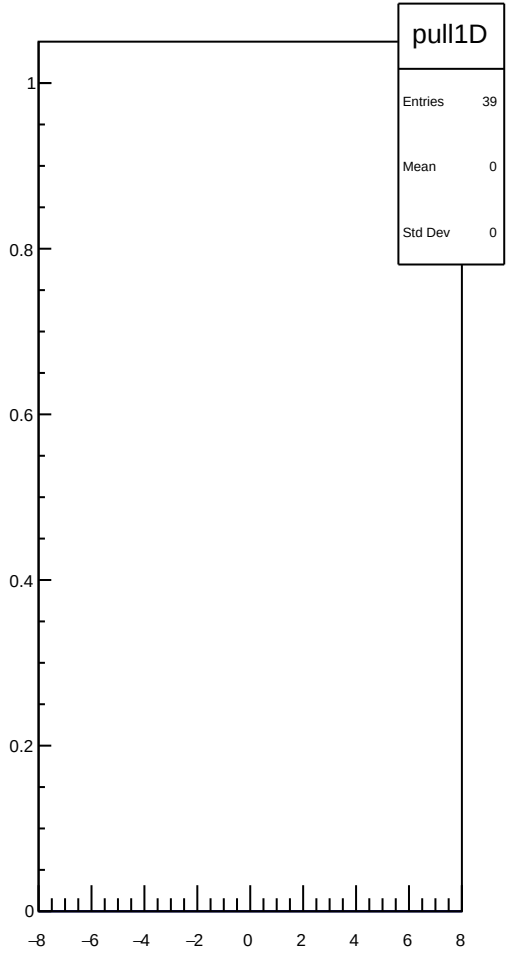

yield_bpm4ecX_rms vs run
χ² / ndf 3.465e+04 / 38
p0 0.01367 ± 1.623e–05
0.035
0.03
0.025
0.02
0.015
0.01
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

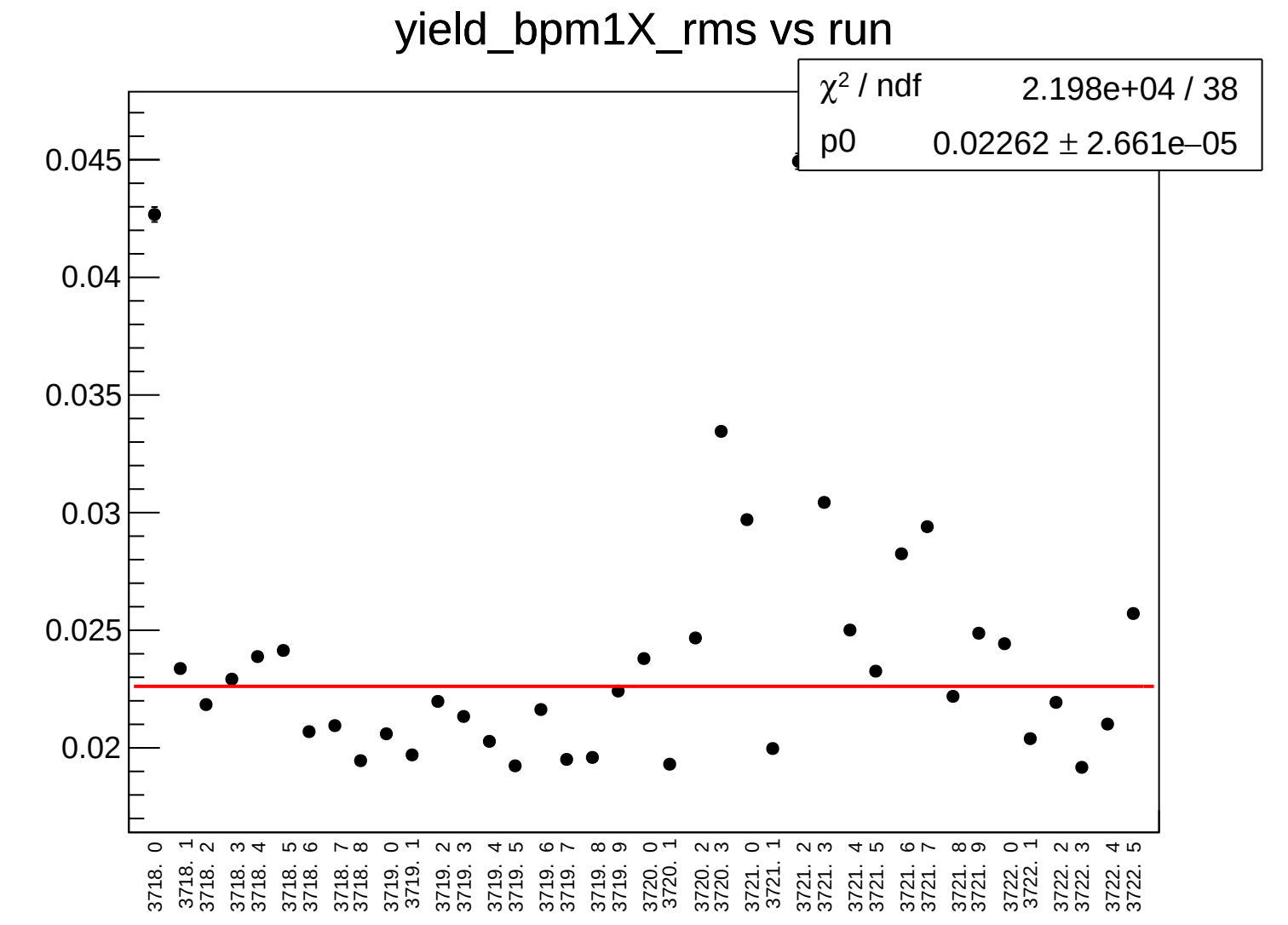

yield_bpm4ecY_mean vs run
χ² / ndf 5.097e+04 / 38
p0 1.617 ± 1.544e−05
1.624
1.622
1.62
1.618
1.616
1.614
1.612
1.61
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −14.53
Std Dev 31.67
60
40
20
0
−20
−40
−60
−80

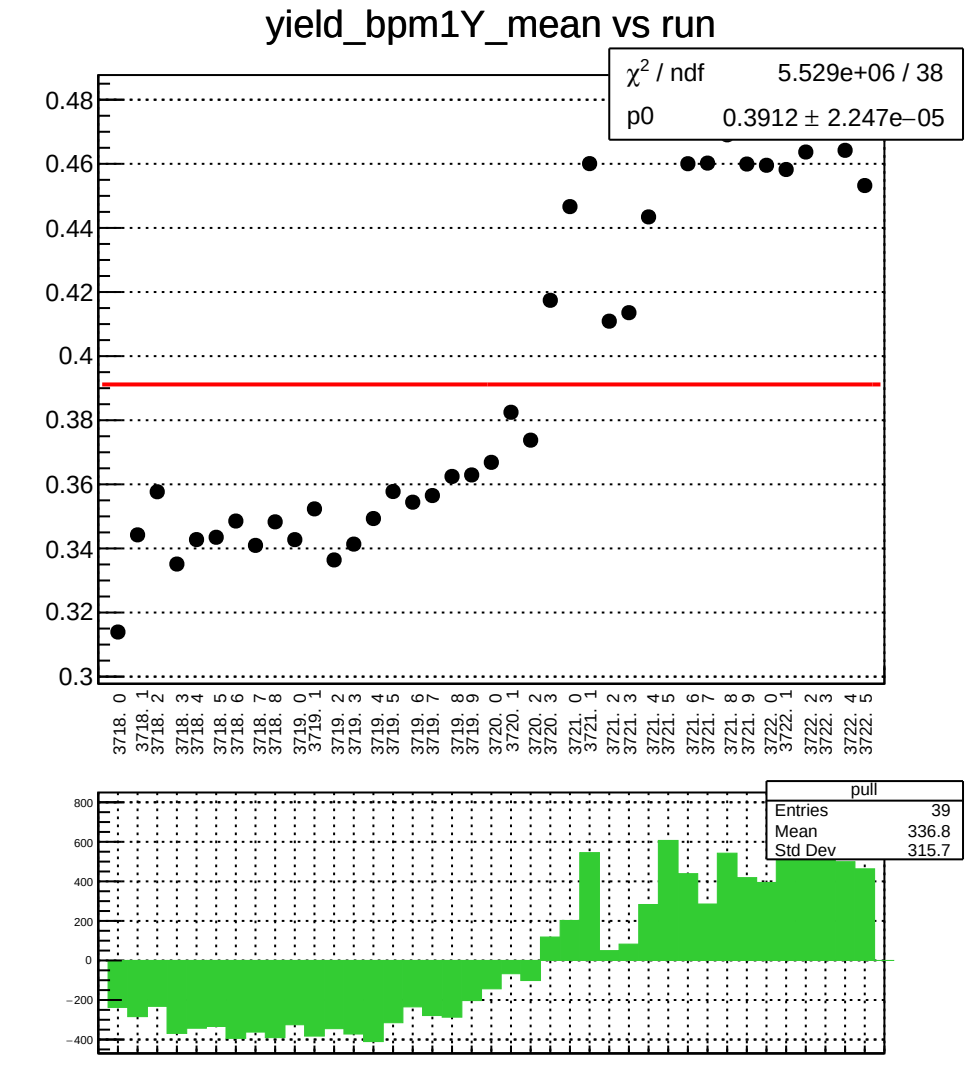

pull1D
Entries 39
Mean −1.654
Std Dev 5.453
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

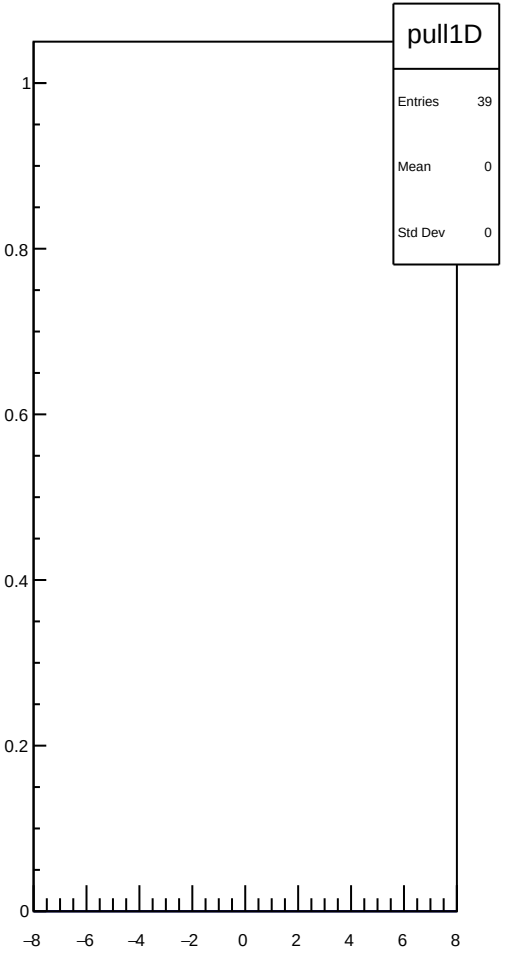

yield_bpm4ecY_rms vs run
χ² / ndf 2.154e+04 / 38
p0 0.009281 ± 1.092e−05
0.035
0.03
0.025
0.02
0.015
0.01
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

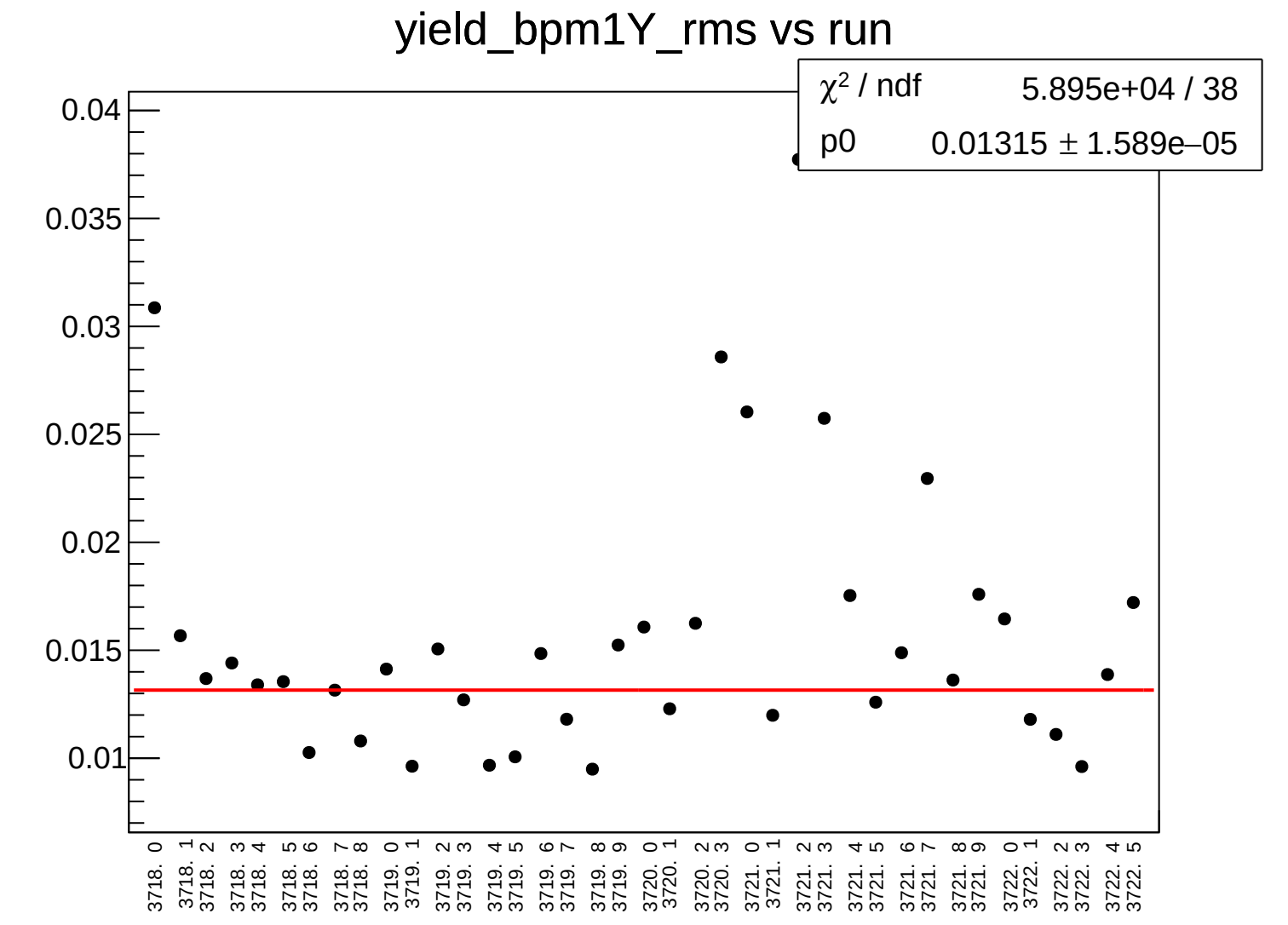

yield_bpm1X_mean vs run
χ² / ndf 2.42e+06 / 38
p0 −0.5795 ± 3.763e−05
pull
Entries 39
Mean 392.5
Std Dev 371.5

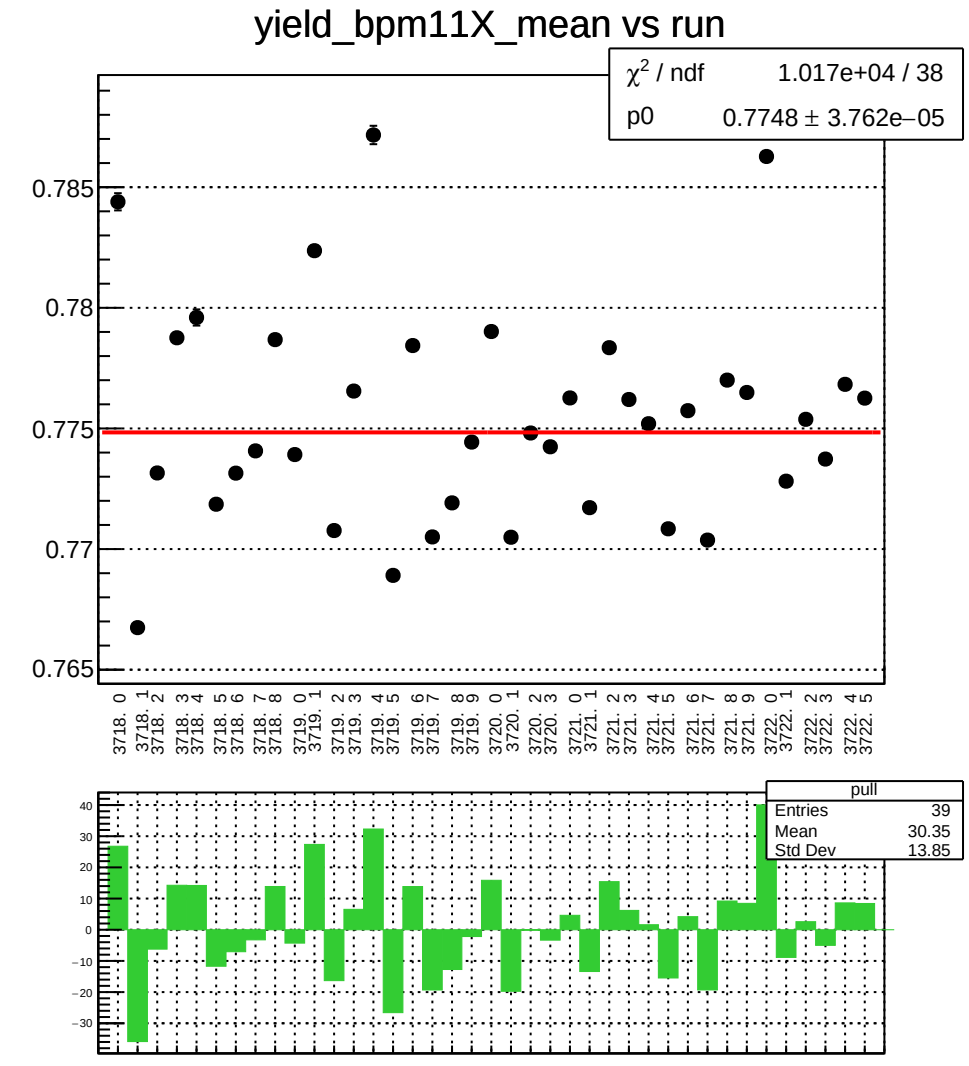

pull1D
Entries 39
Mean 0
Std Dev 0

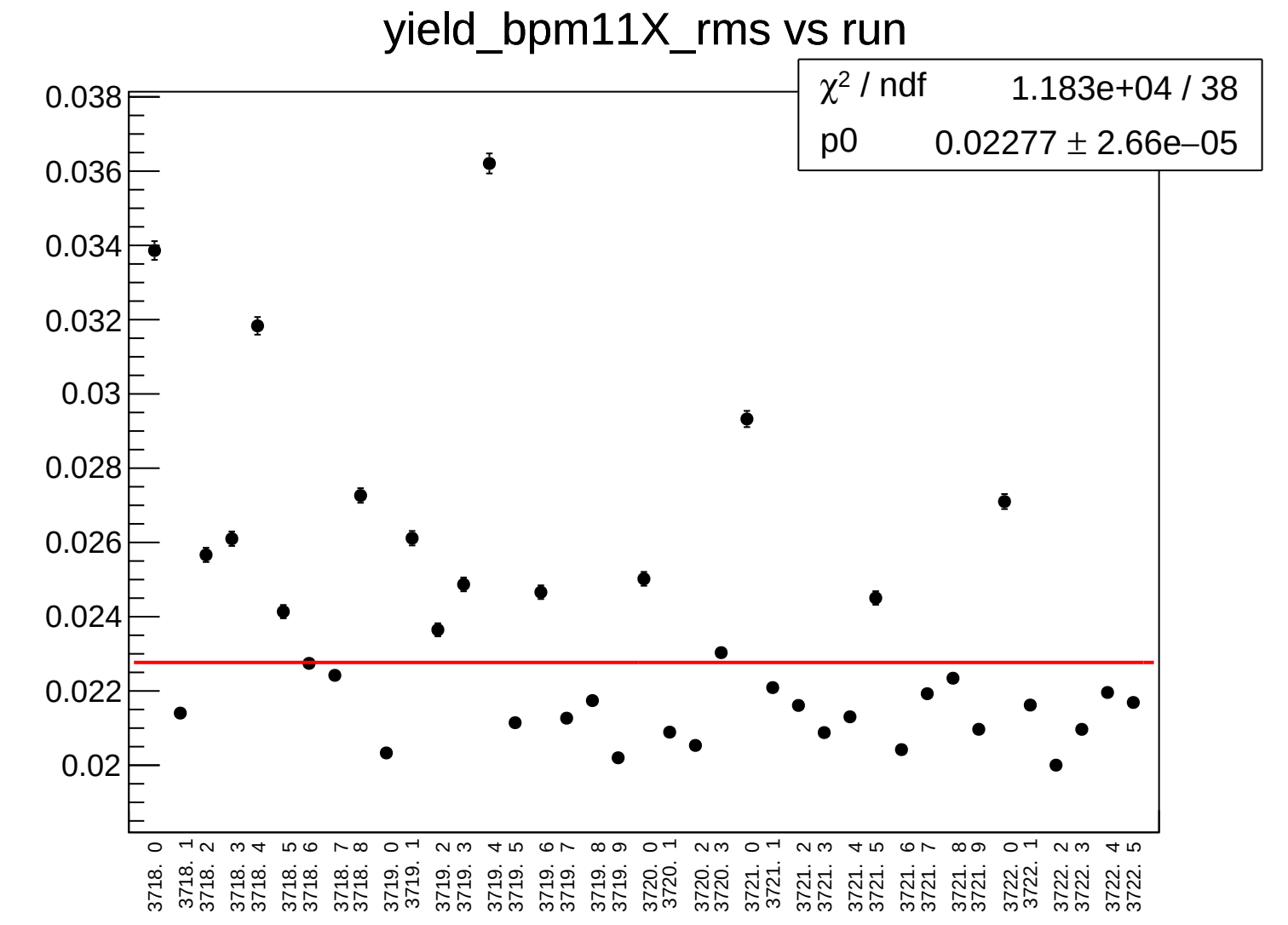

yield_bpm1X_rms vs run
χ² / ndf 2.198e+04 / 38
p0 0.02262 ± 2.661e–05
0.045
0.04
0.035
0.03
0.025
0.02
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

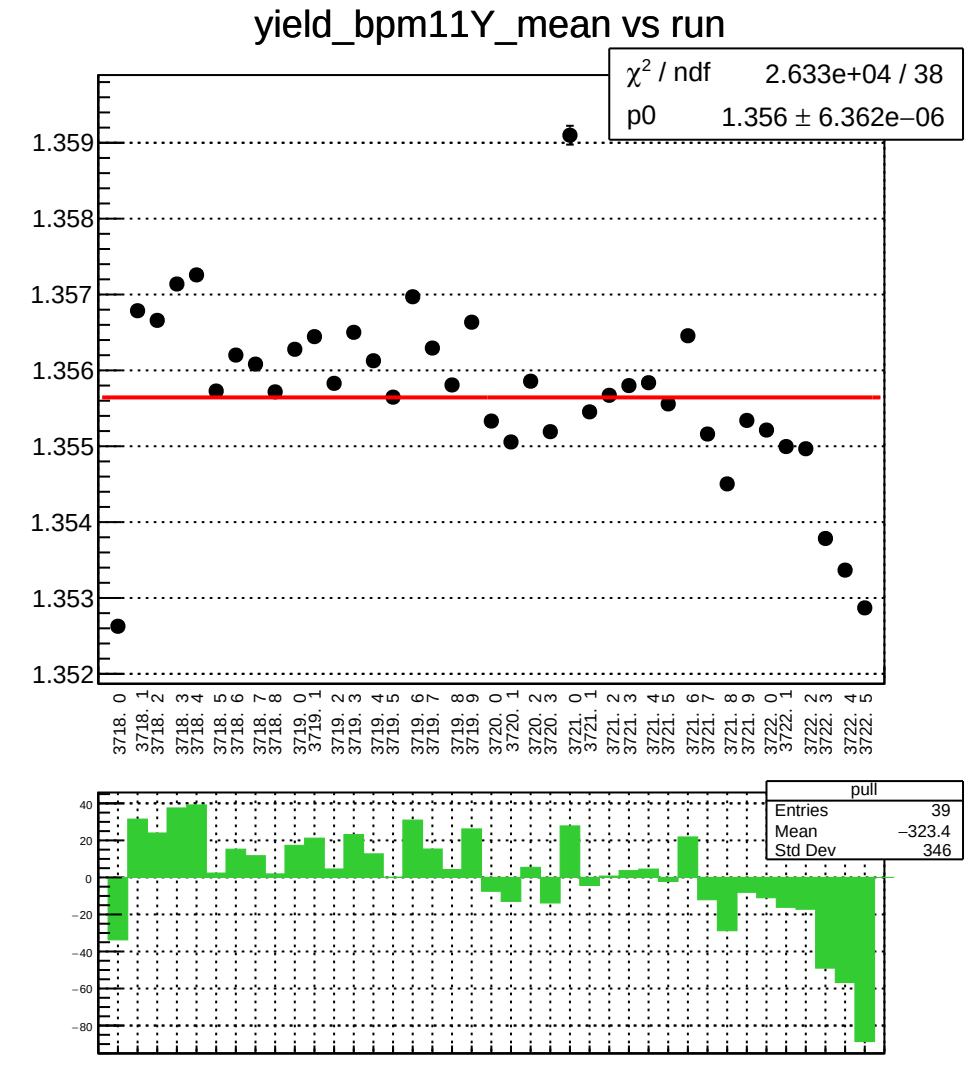

yield_bpm1Y_mean vs run
χ² / ndf 5.529e+06 / 38
p0 0.3912 ± 2.247e−05
0.48
0.46
0.44
0.42
0.4
0.38
0.36
0.34
0.32
0.3
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 336.8
Std Dev 315.7
800
600
400
200
0
−200
−400

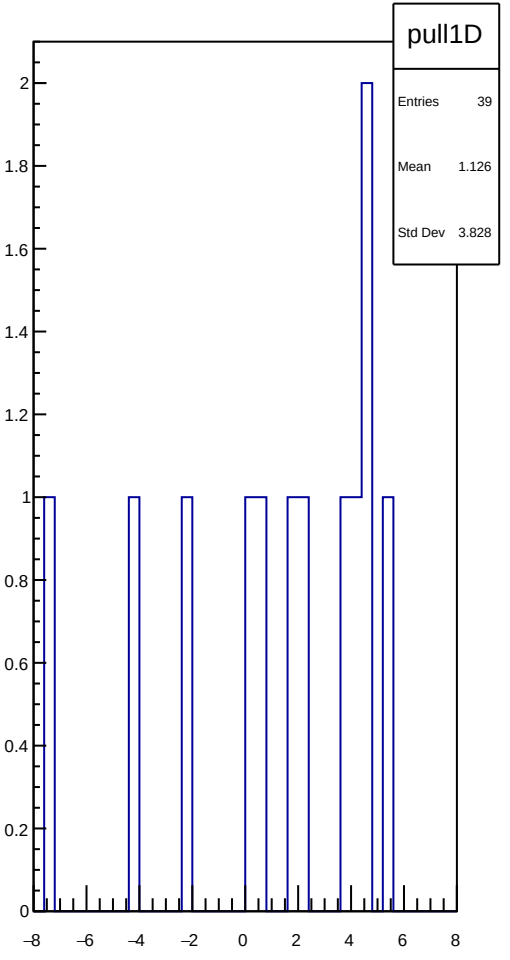

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

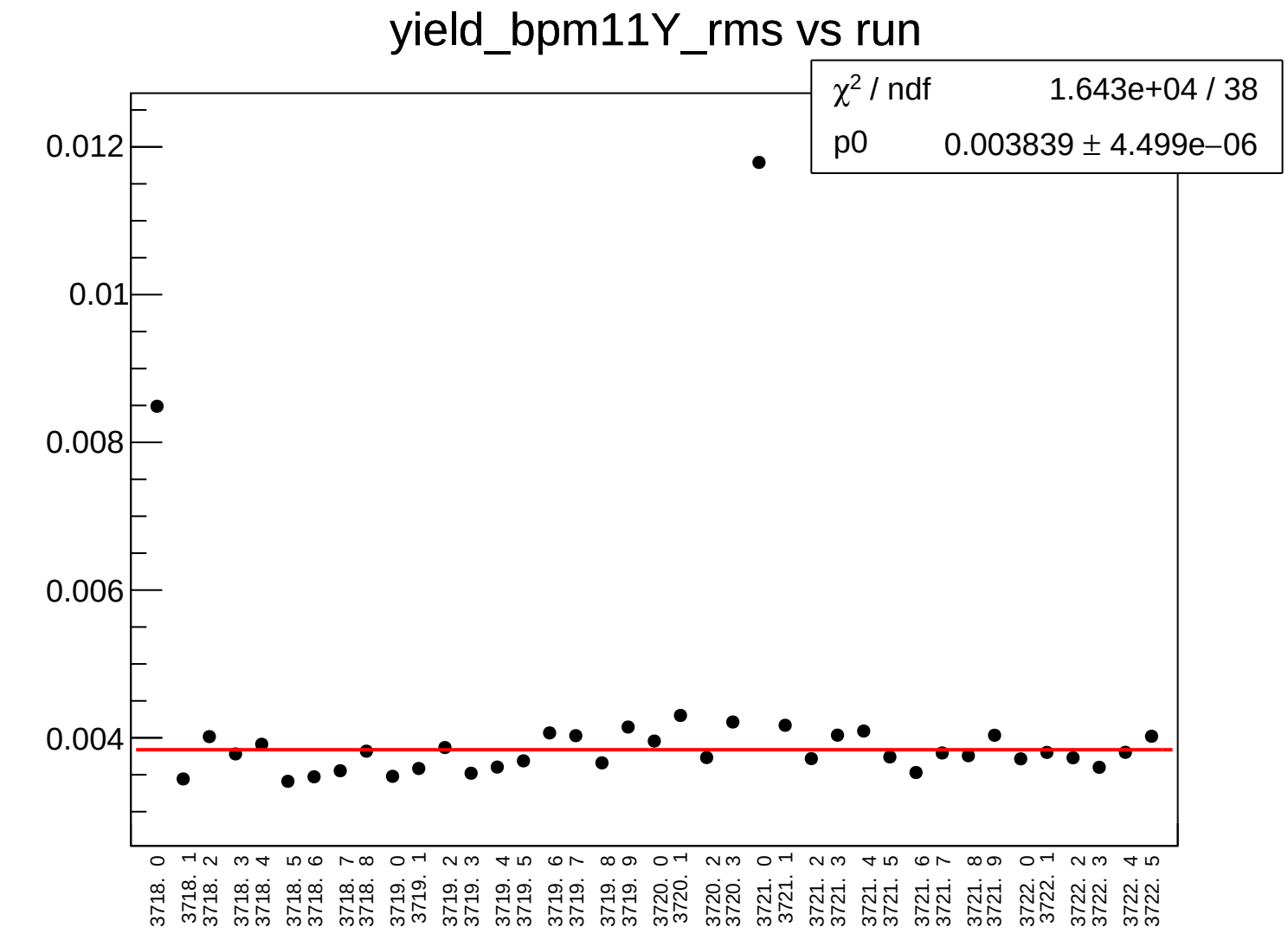

yield_bpm1Y_rms vs run
χ² / ndf 5.895e+04 / 38
p0 0.01315 ± 1.589e–05
0.04
0.035
0.03
0.025
0.02
0.015
0.01
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

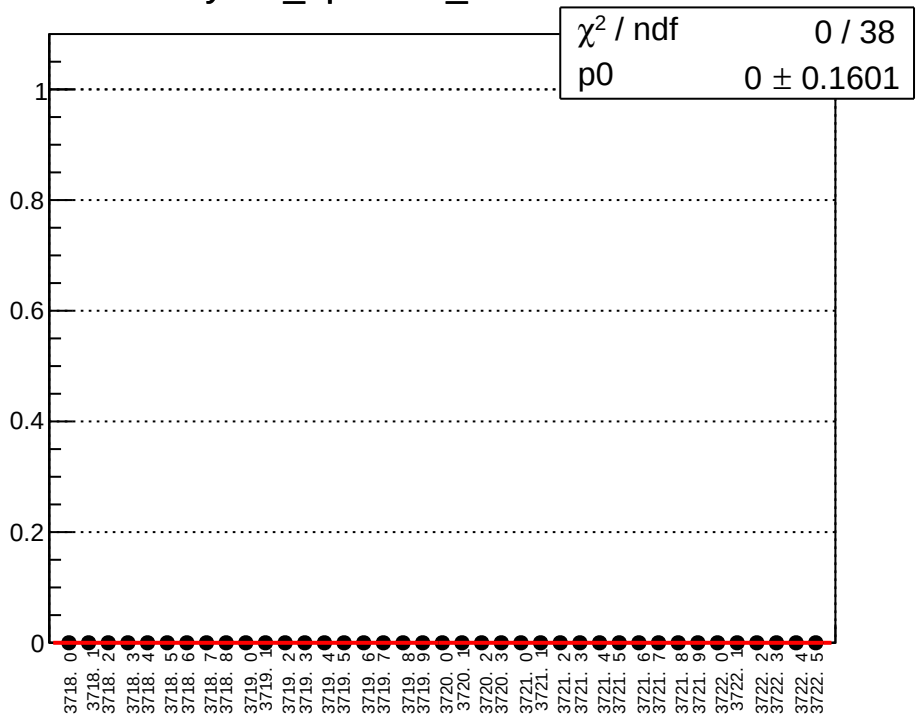

yield_bpm11X_mean vs run
χ² / ndf 1.017e+04 / 38
p0 0.7748 ± 3.762e−05
0.785
0.78
0.775
0.77
0.765
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 30.35
Std Dev 13.85
40
30
20
10
0
−10
−20
−30
pull1D
Entries 39
Mean −0.4052
Std Dev 4.511
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

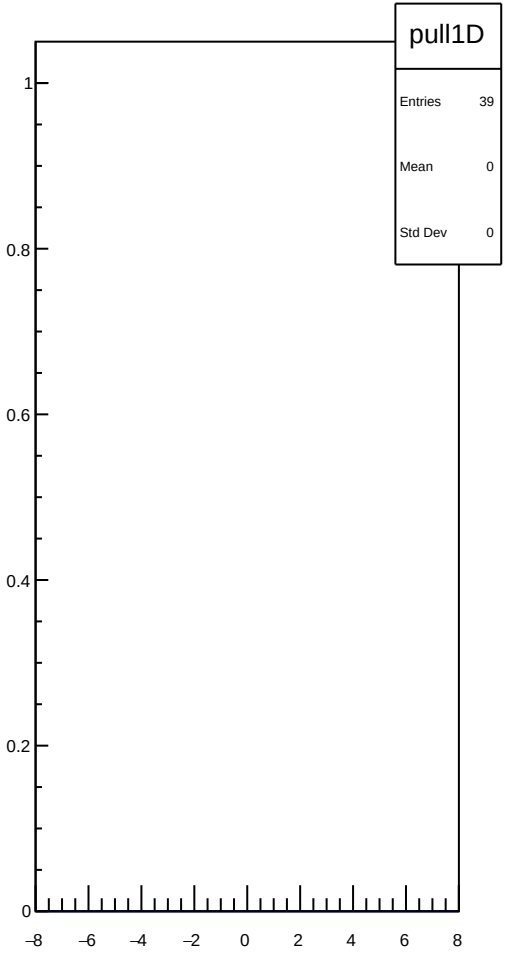

yield_bpm11X_rms vs run
χ² / ndf 1.183e+04 / 38
p0 0.02277 ± 2.66e−05
0.038
0.036
0.034
0.032
0.03
0.028
0.026
0.024
0.022
0.02
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

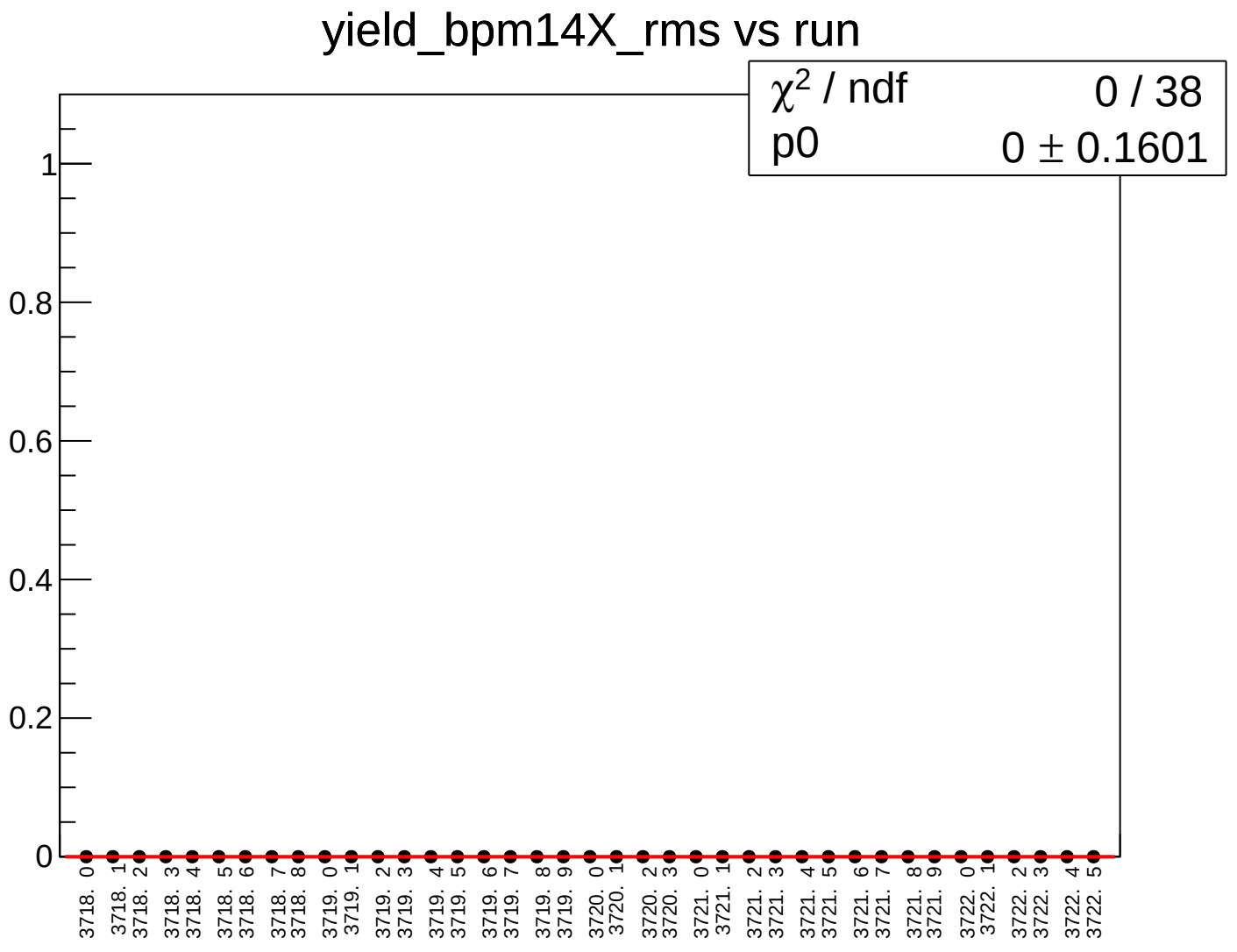

yield_bpm11Y_mean vs run
χ² / ndf 2.633e+04 / 38
p0 1.356 ± 6.362e−06
1.359
1.358
1.357
1.356
1.355
1.354
1.353
1.352
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −323.4
Std Dev 346
40
20
0
−20
−40
−60
−80

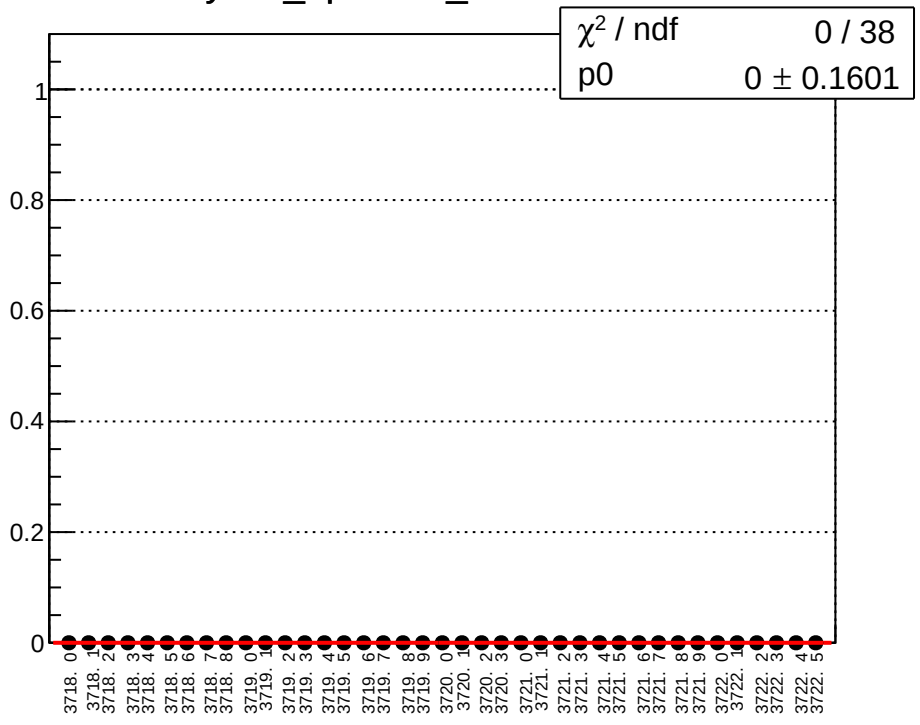

pull1D
Entries 39
Mean 1.126
Std Dev 3.828
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

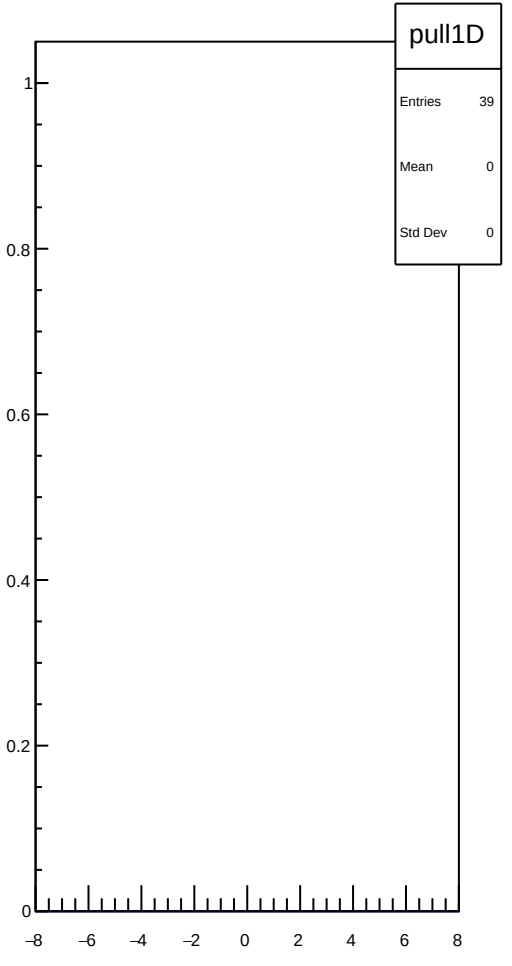

yield_bpm11Y_rms vs run
χ² / ndf 1.643e+04 / 38
p0 0.003839 ± 4.499e−06
0.012
0.01
0.008
0.006
0.004
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

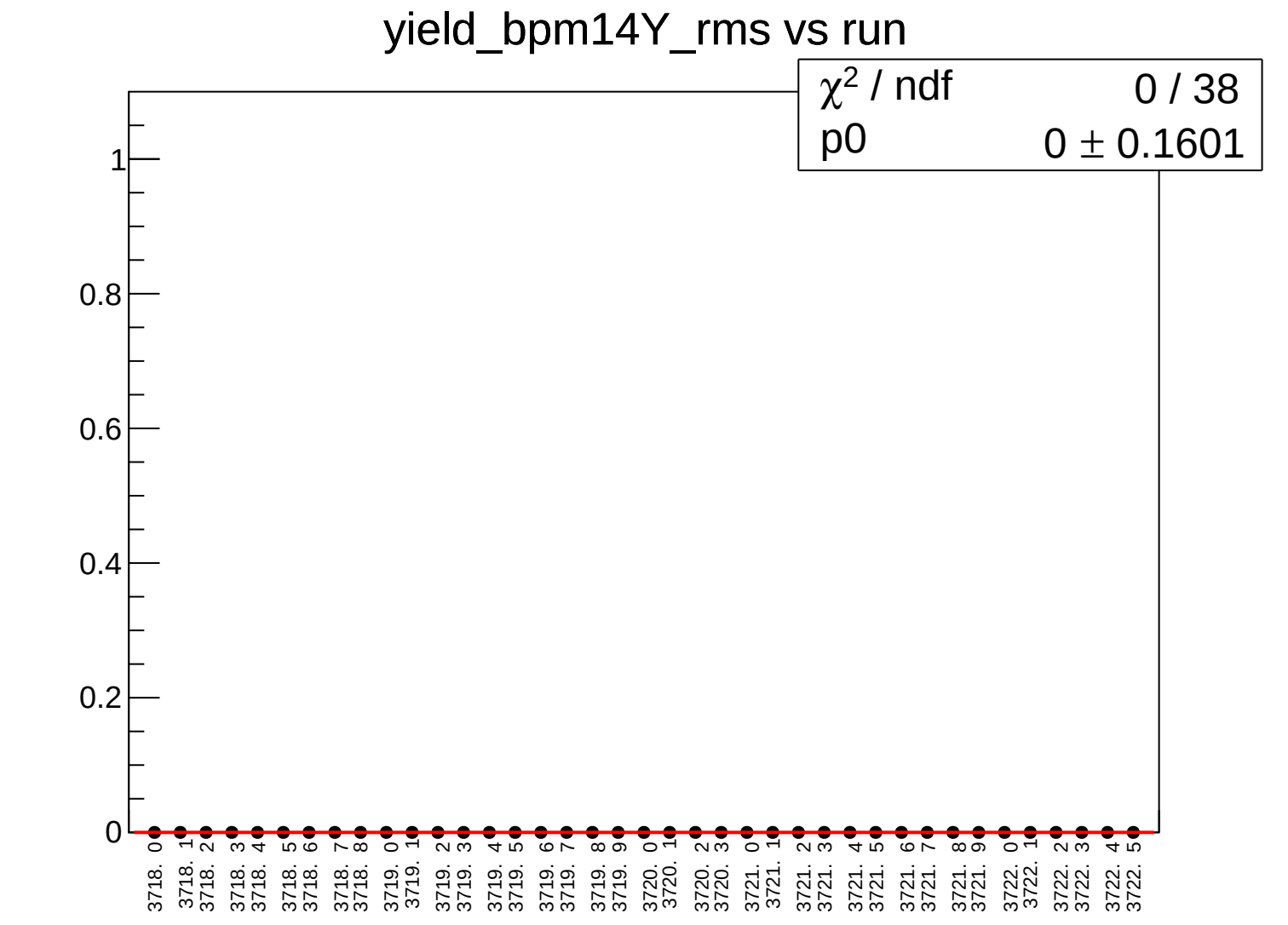

yield_bpm14X_mean vs run
χ² / ndf 0 / 38
p0 0 ± 0.1601
1
0.8
0.6
0.4
0.2
0
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

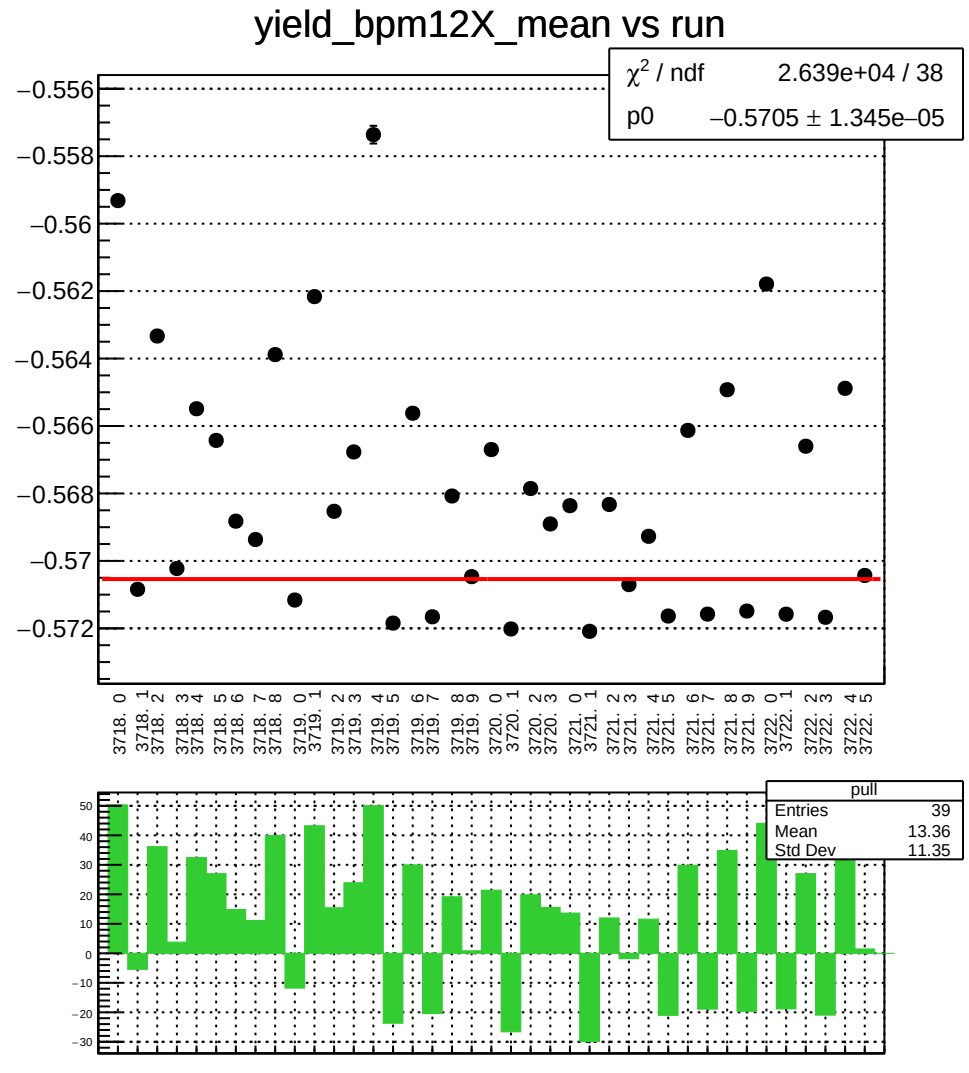

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

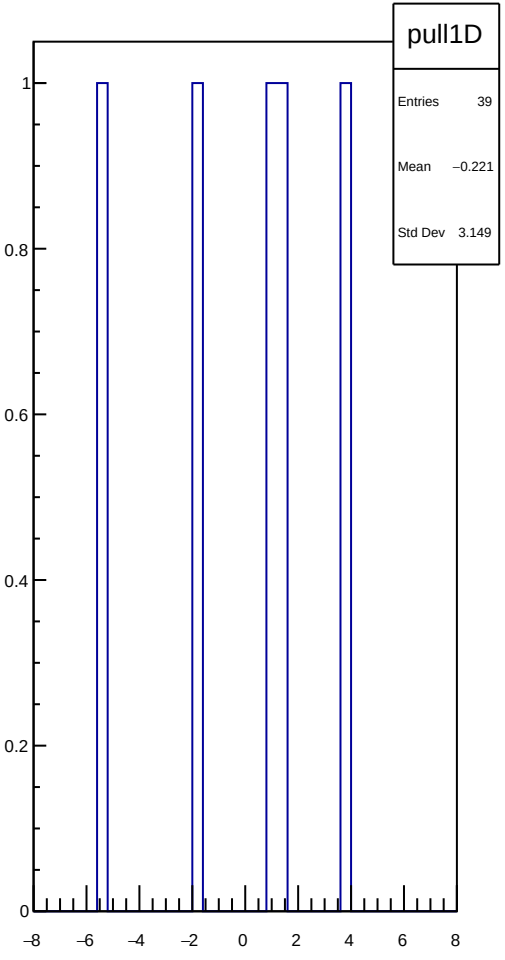

yield_bpm14X_rms vs run
χ² / ndf 0 / 38
p0 0 ± 0.1601
1
0.8
0.6
0.4
0.2
0
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

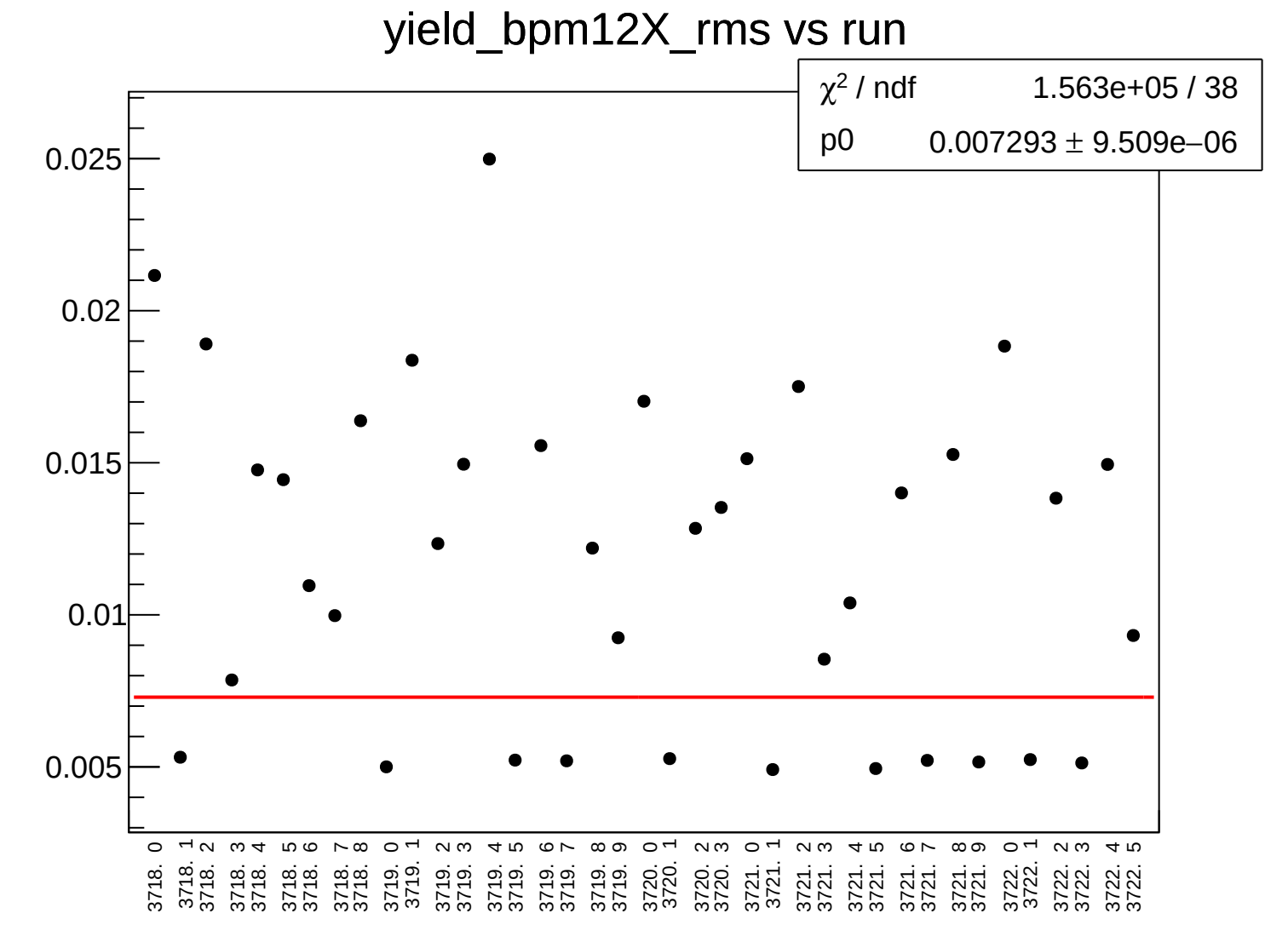

yield_bpm14Y_mean vs run
χ² / ndf 0 / 38
p0 0 ± 0.1601
1
0.8
0.6
0.4
0.2
0
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

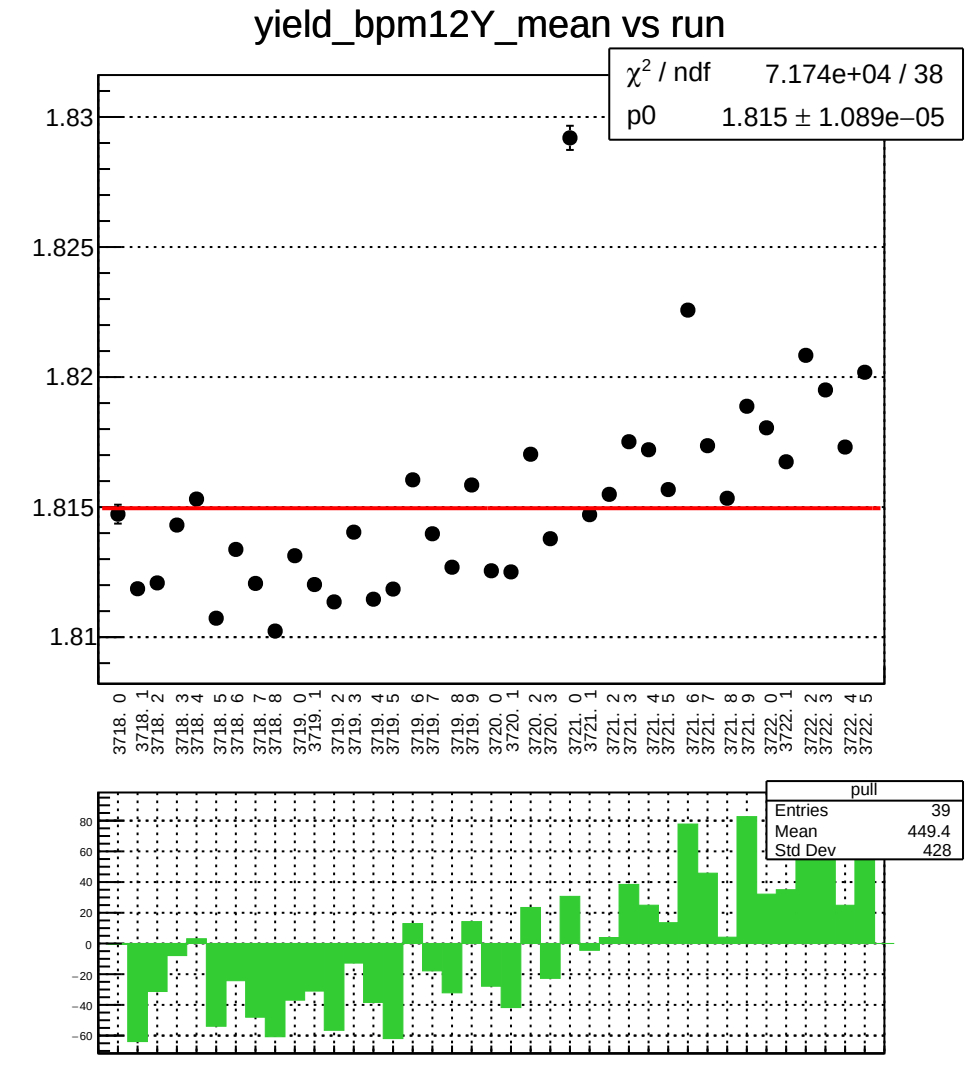

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

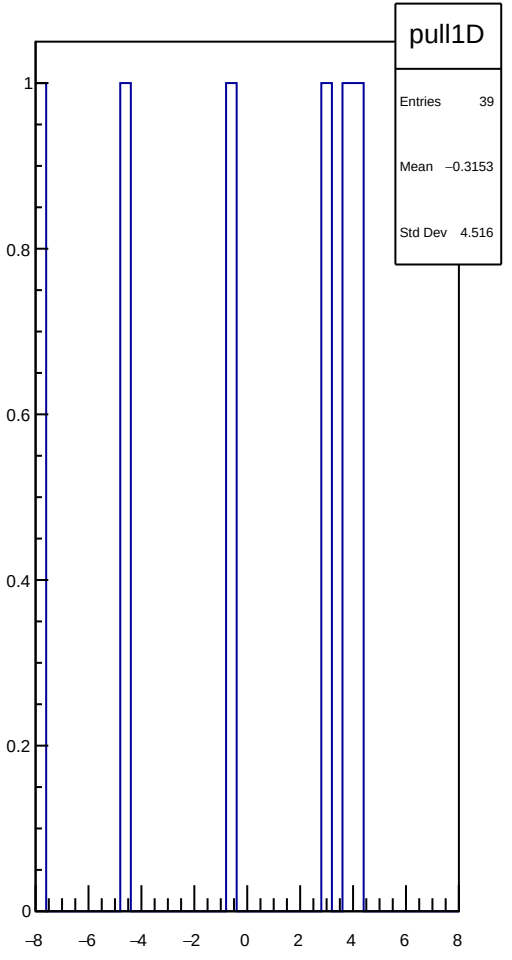

yield_bpm14Y_rms vs run
χ² / ndf 0 / 38
p0 0 ± 0.1601
1
0.8
0.6
0.4
0.2
0
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

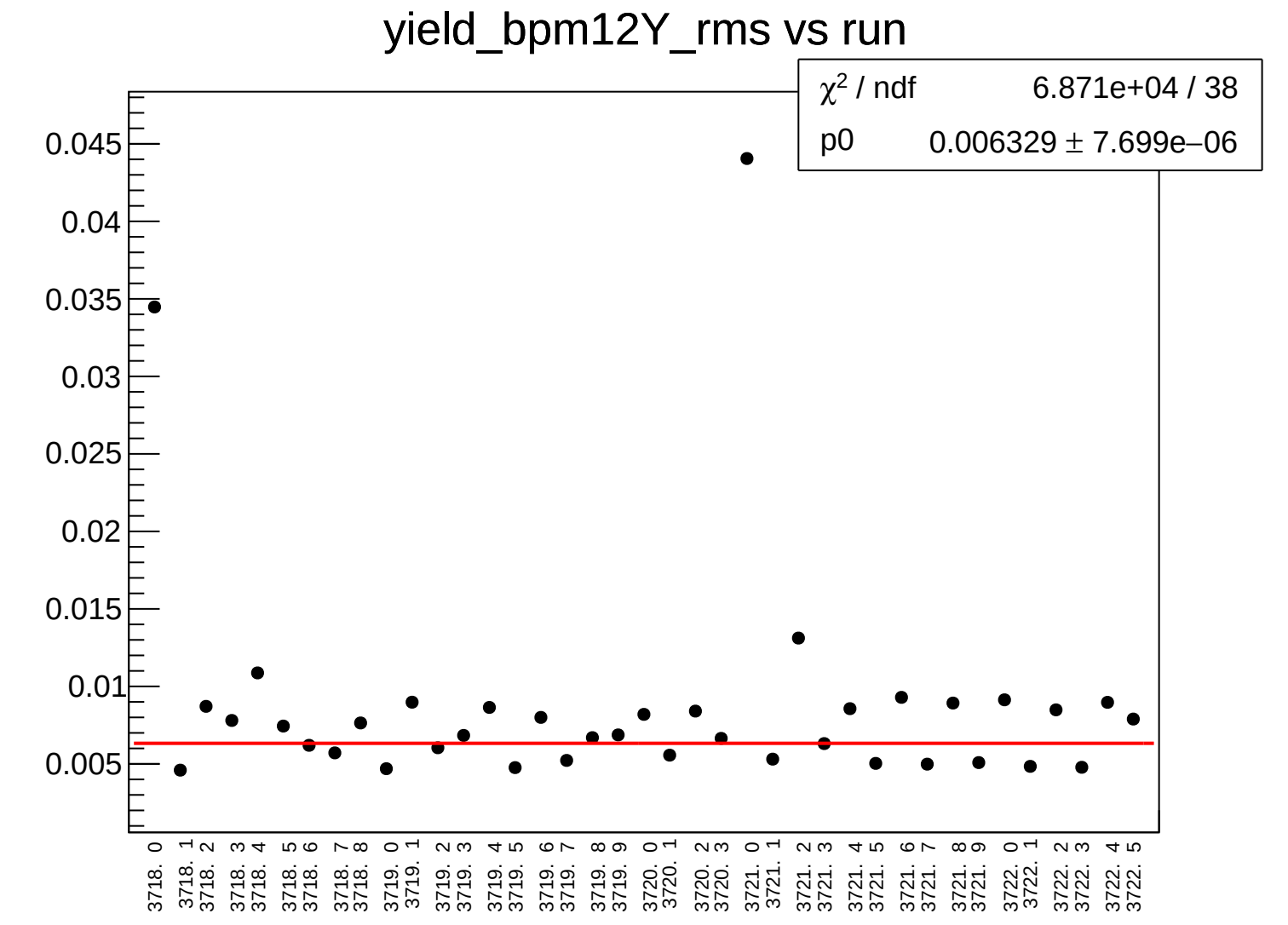

yield_bpm12X_mean vs run
χ² / ndf 2.639e+04 / 38
p0 −0.5705 ± 1.345e−05
−0.556
−0.558
−0.56
−0.562
−0.564
−0.566
−0.568
−0.57
−0.572
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 13.36
Std Dev 11.35
50
40
30
20
10
0
−10
−20
−30

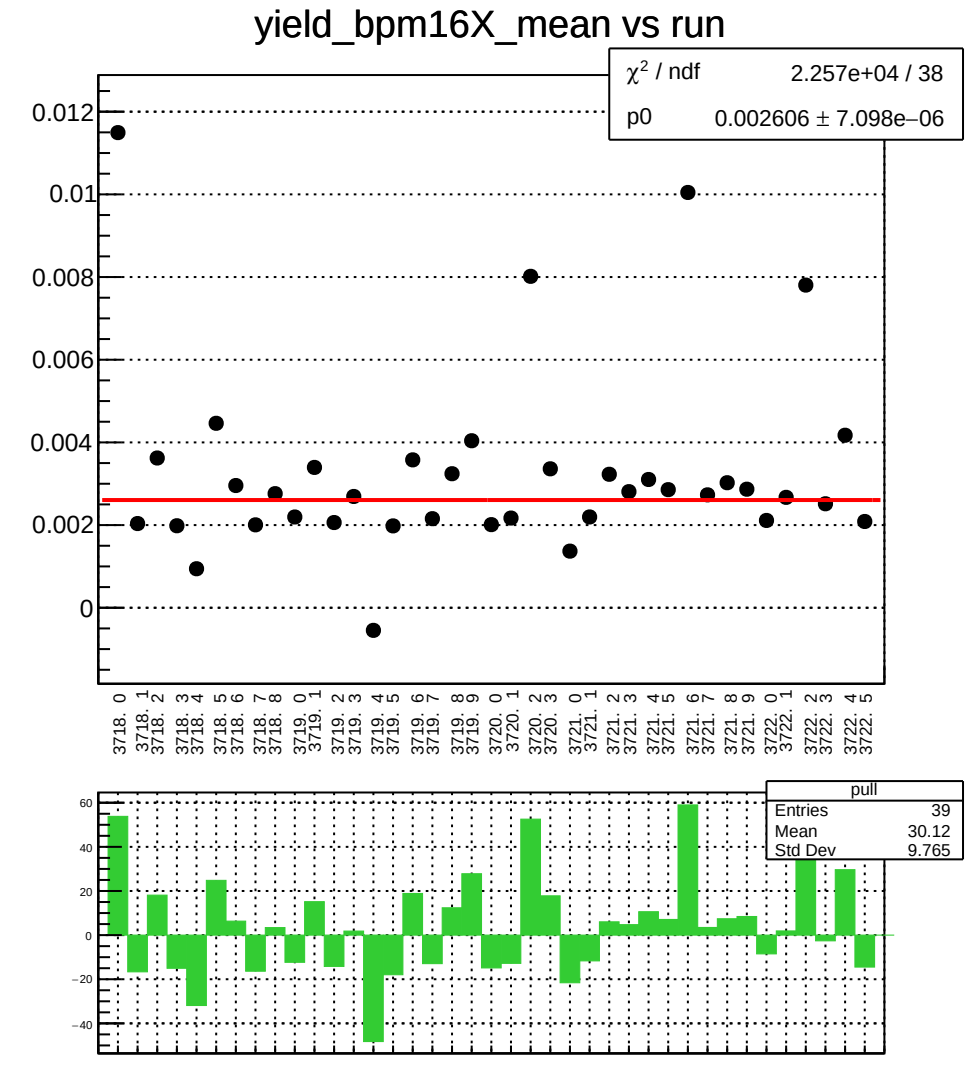

pull1D
Entries 39
Mean −0.221
Std Dev 3.149
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

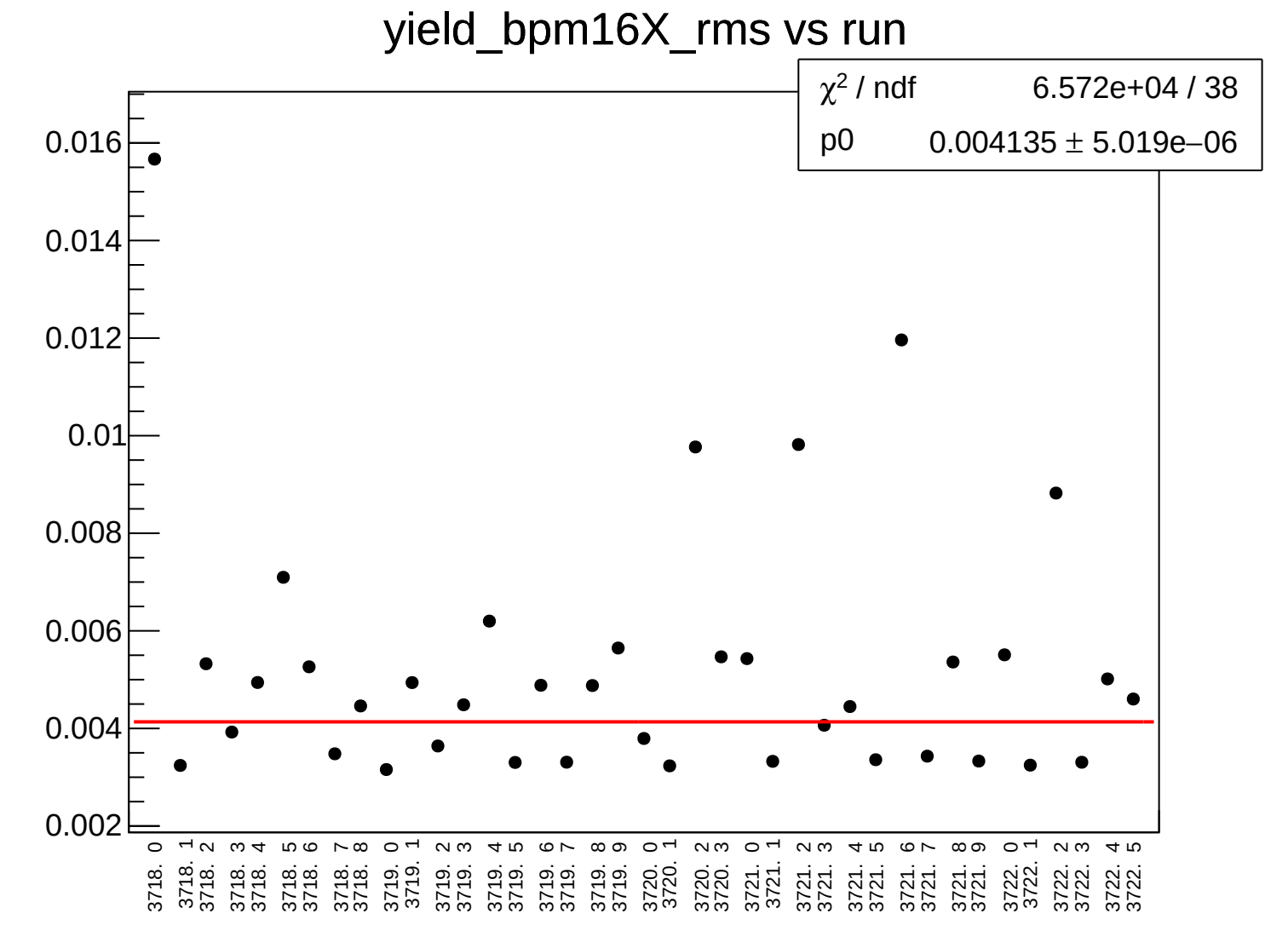

yield_bpm12X_rms vs run
χ² / ndf 1.563e+05 / 38
p0 0.007293 ± 9.509e−06
0.025
0.02
0.015
0.01
0.005
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

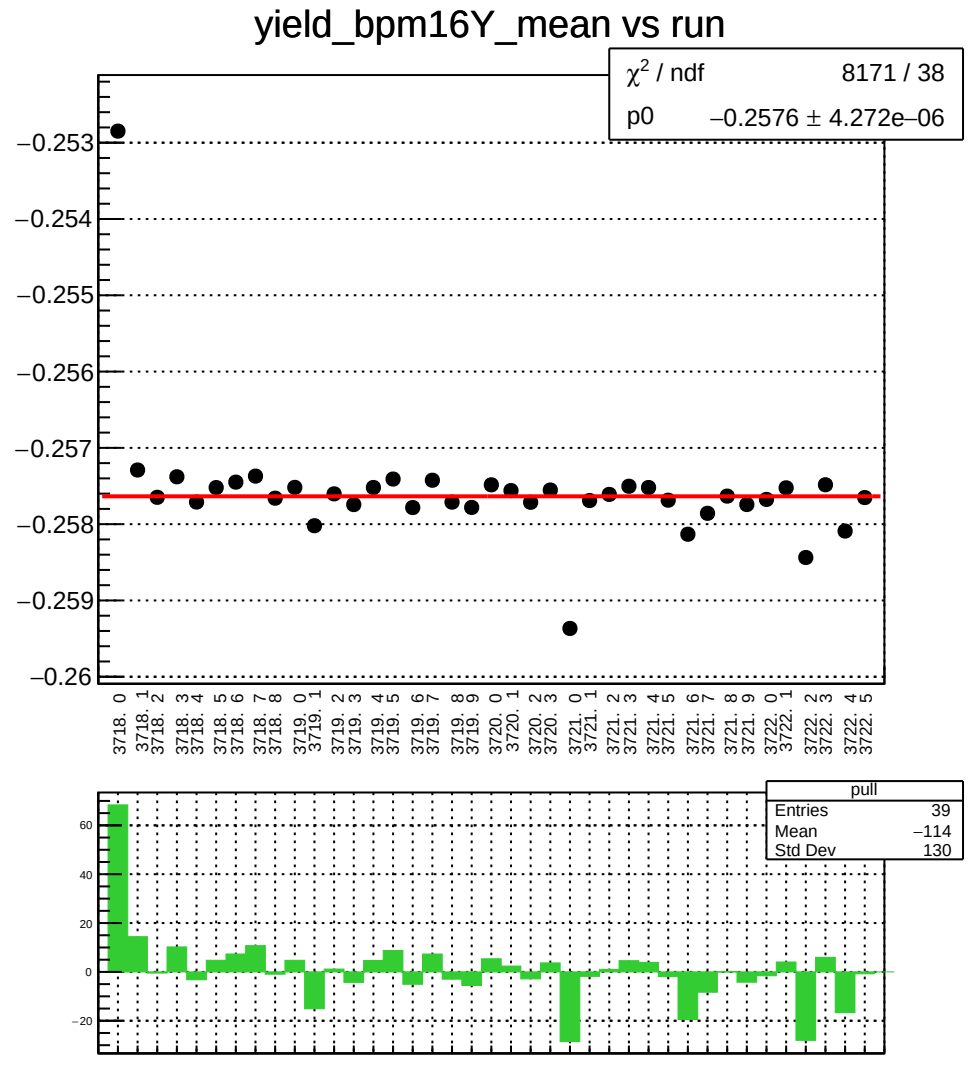

yield_bpm12Y_mean vs run
χ² / ndf 7.174e+04 / 38
p0 1.815 ± 1.089e−05
1.83
1.825
1.82
1.815
1.81
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 449.4
Std Dev 428
80
60
40
20
0
−20
−40
−60

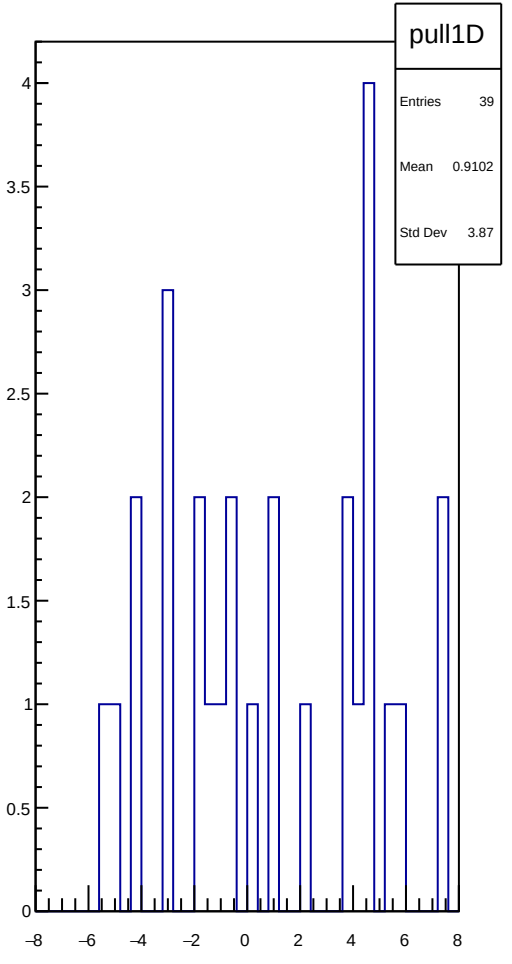

pull1D
Entries 39
Mean −0.3153
Std Dev 4.516
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

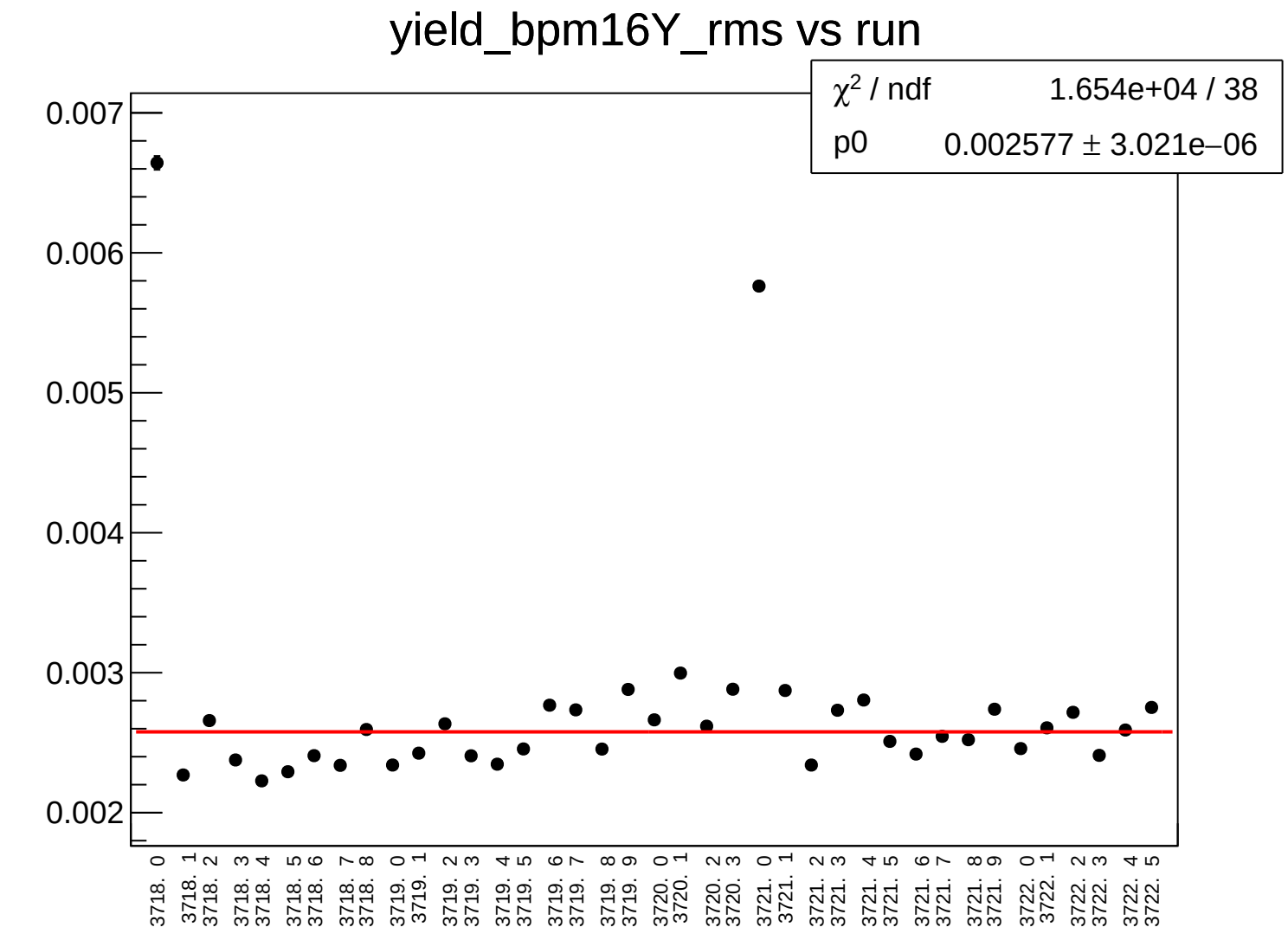

yield_bpm12Y_rms vs run
χ² / ndf 6.871e+04 / 38
p0 0.006329 ± 7.699e−06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

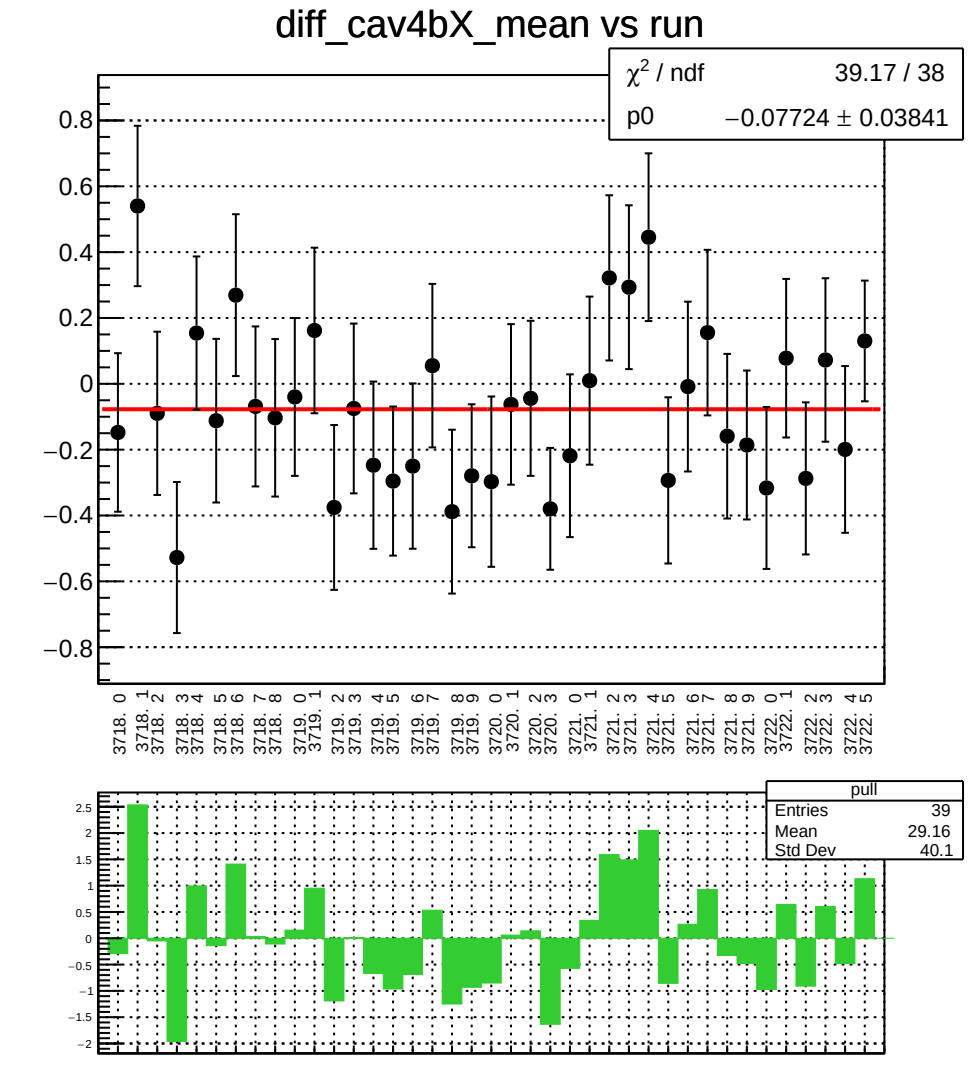

yield_bpm16X_mean vs run
χ² / ndf 2.257e+04 / 38
p0 0.002606 ± 7.098e−06
0.012
0.01
0.008
0.006
0.004
0.002
0
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 30.12
Std Dev 9.765
60
40
20
0
−20
−40
pull1D
Entries 39
Mean 3.962
Std Dev 2.907
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

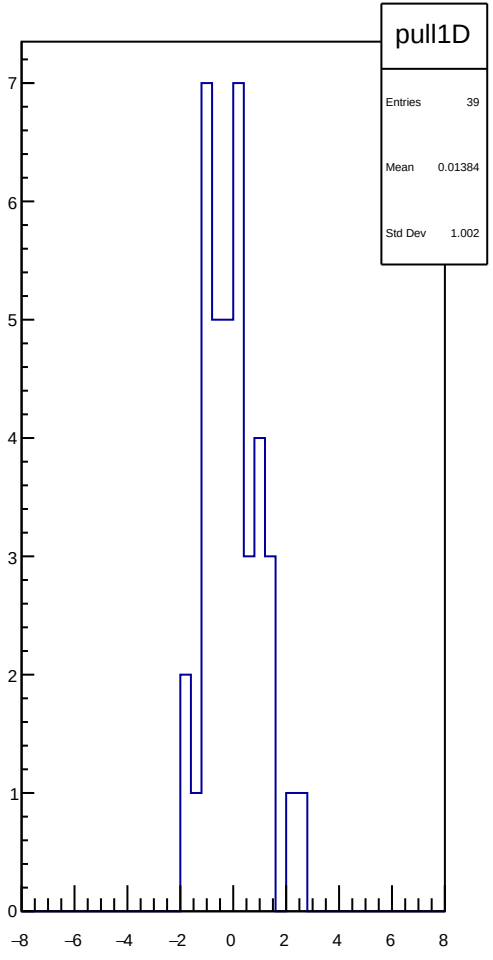

yield_bpm16X_rms vs run
χ² / ndf 6.572e+04 / 38
p0 0.004135 ± 5.019e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

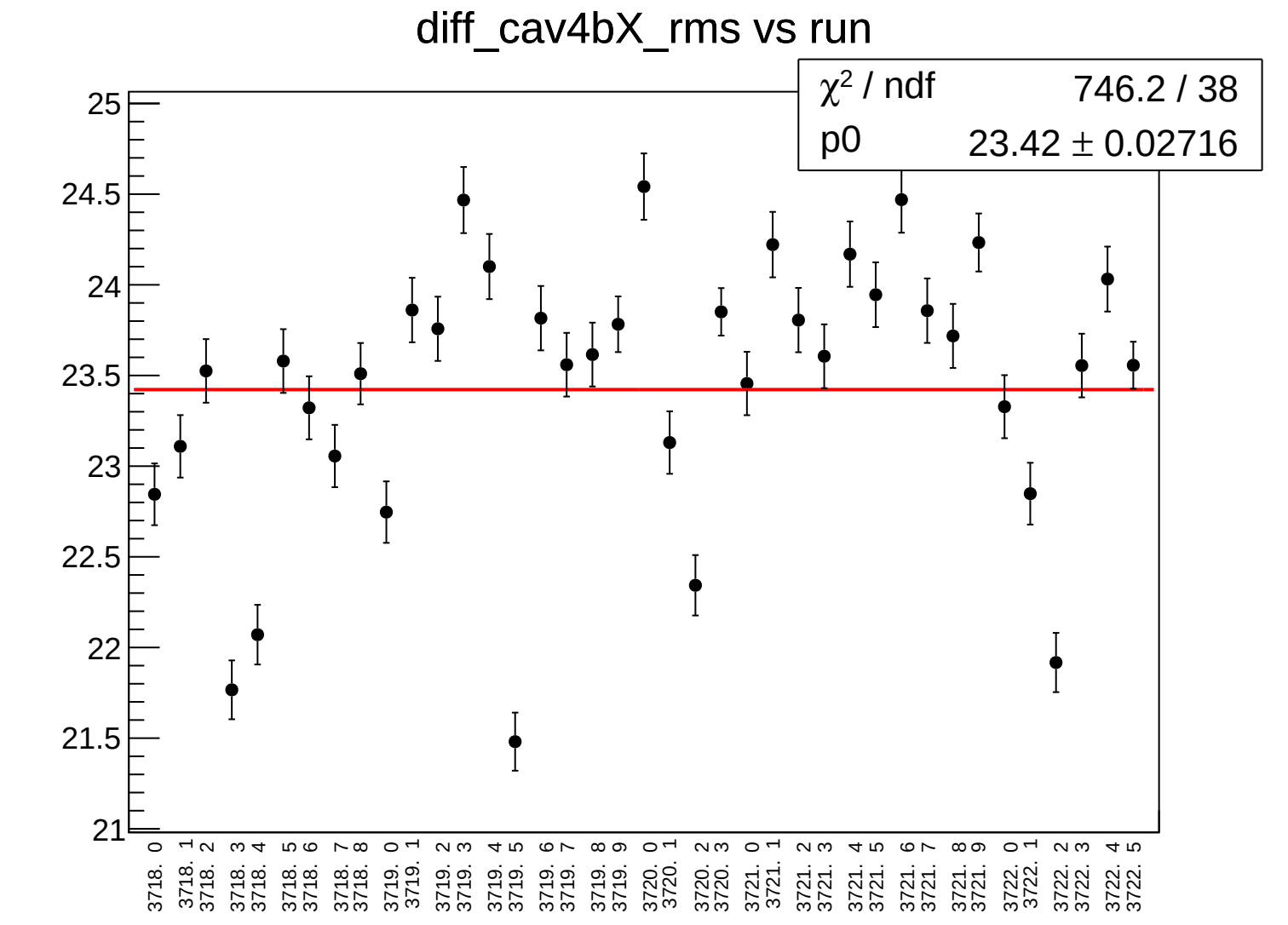

yield_bpm16Y_mean vs run
χ² / ndf 8171 / 38
p0 −0.2576 ± 4.272e−06
−0.253
−0.254
−0.255
−0.256
−0.257
−0.258
−0.259
−0.26
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −114
Std Dev 130
60
40
20
0
−20

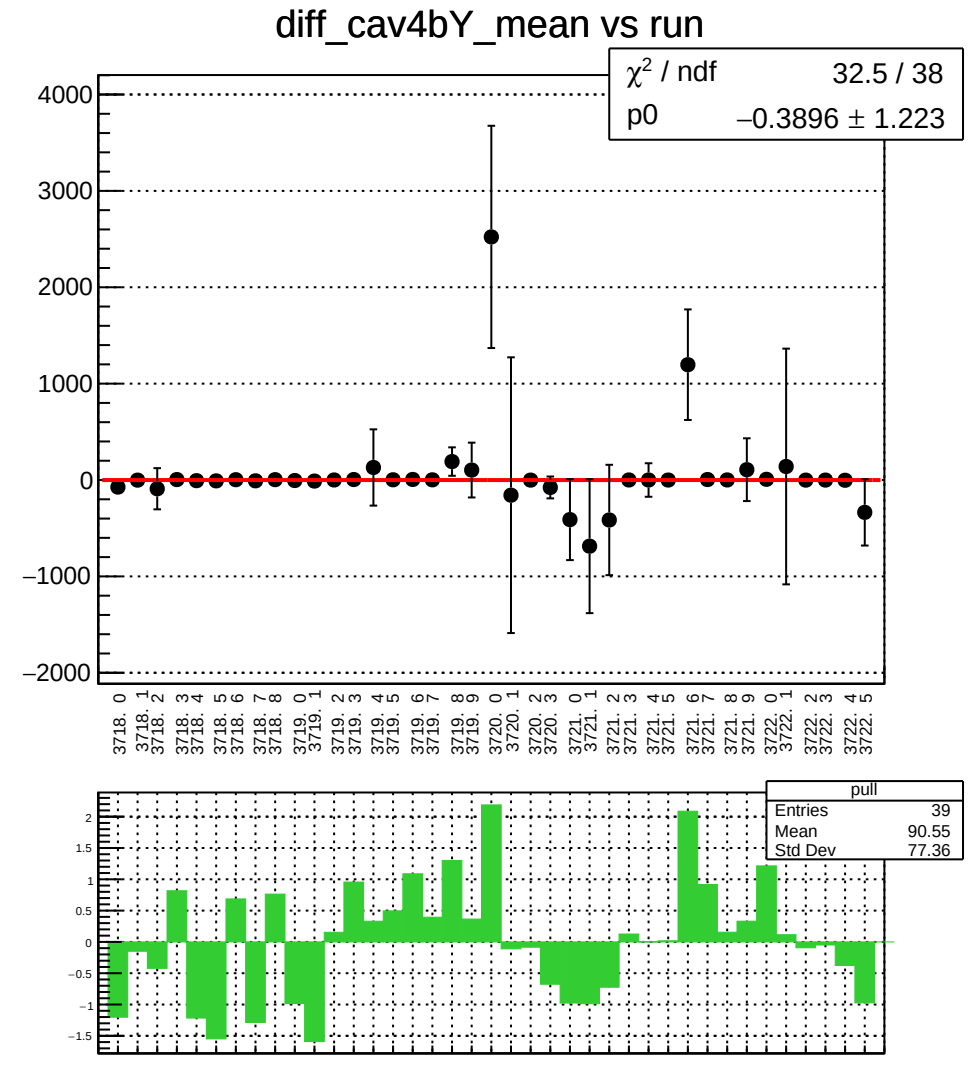

pull1D
Entries 39
Mean 0.9102
Std Dev 3.87
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

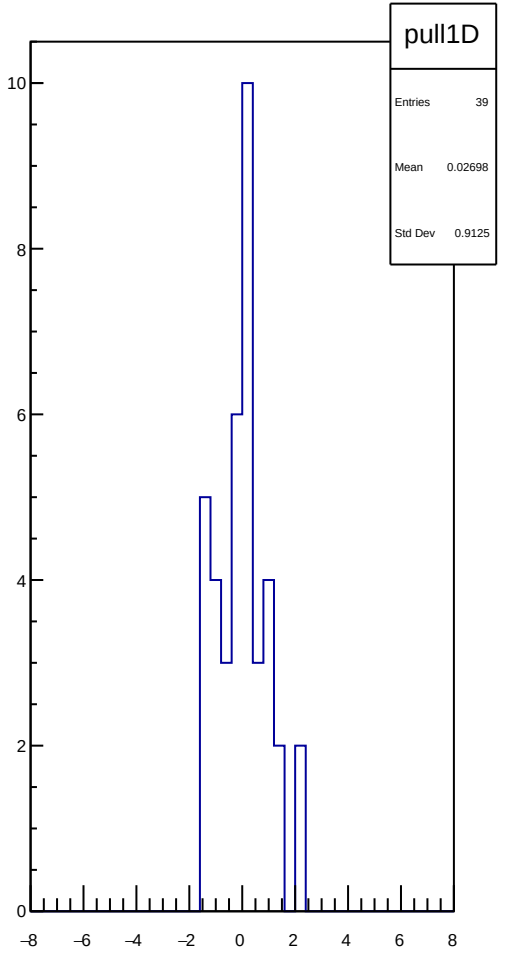

yield_bpm16Y_rms vs run
χ² / ndf 1.654e+04 / 38
p0 0.002577 ± 3.021e−06
0.007
0.006
0.005
0.004
0.003
0.002
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

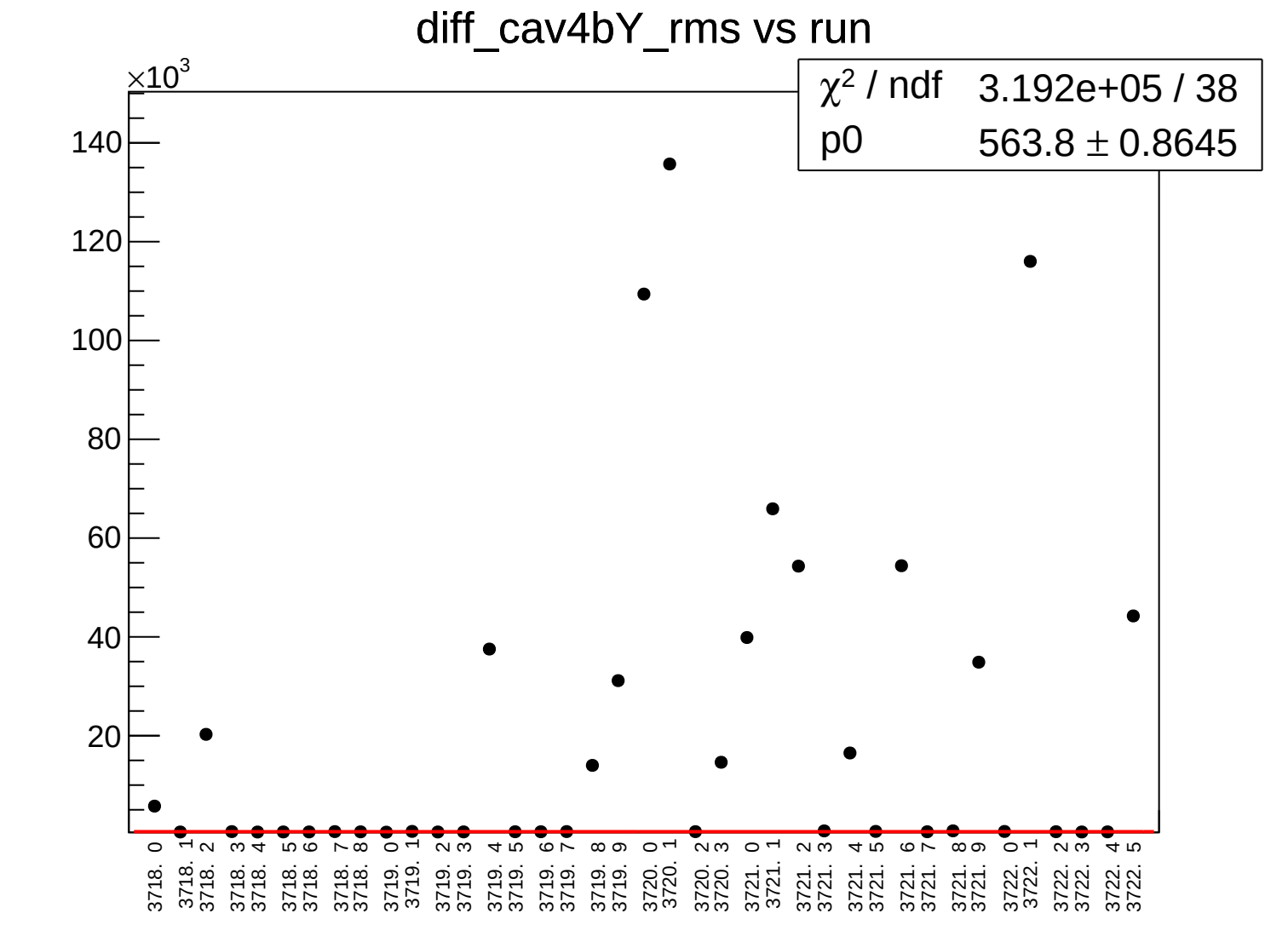

diff_cav4bX_mean vs run
χ² / ndf 39.17 / 38
p0 −0.07724 ± 0.03841
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 29.16
Std Dev 40.1
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

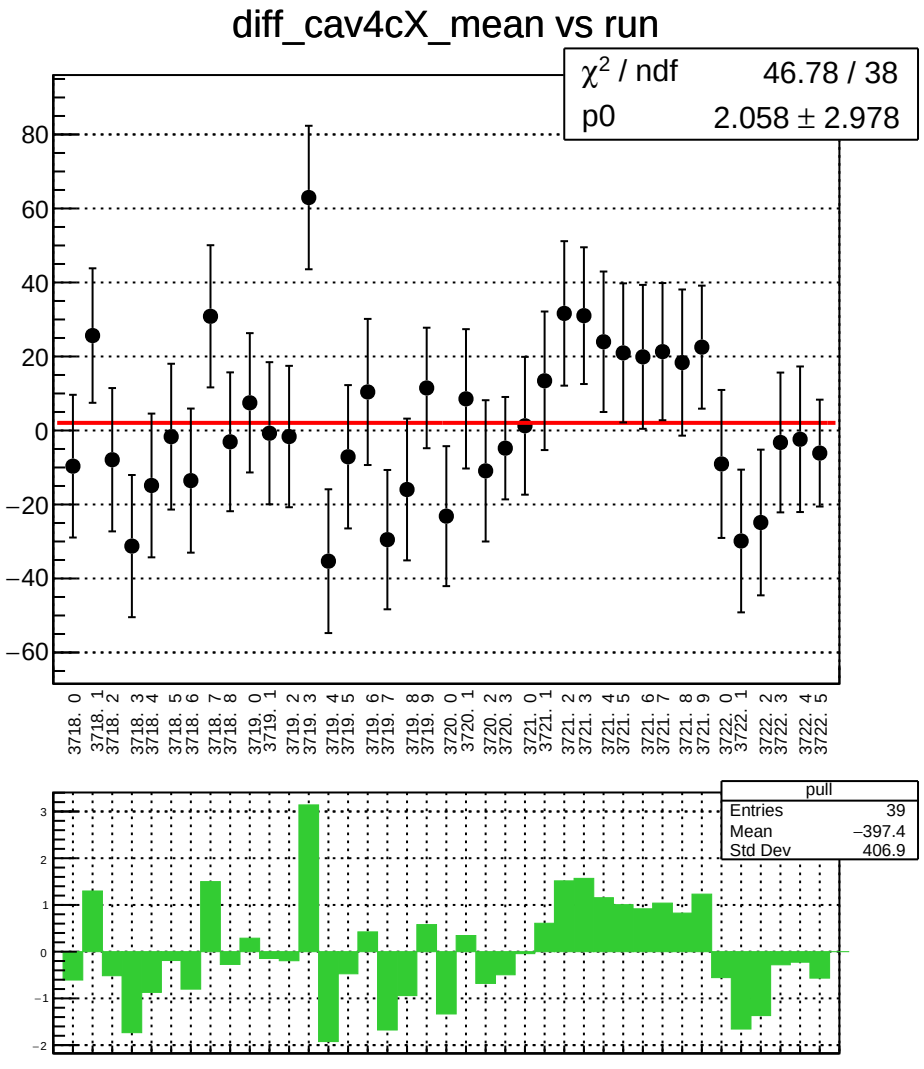

pull1D
Entries 39
Mean 0.01384
Std Dev 1.002
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

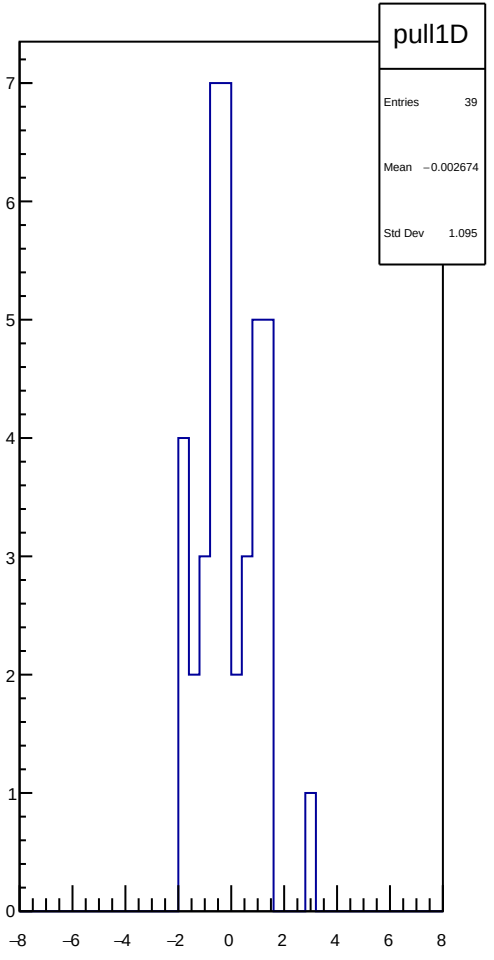

diff_cav4bX_rms vs run
χ² / ndf 746.2 / 38
p0 23.42 ± 0.02716
25
24.5
24
23.5
23
22.5
22
21.5
21
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

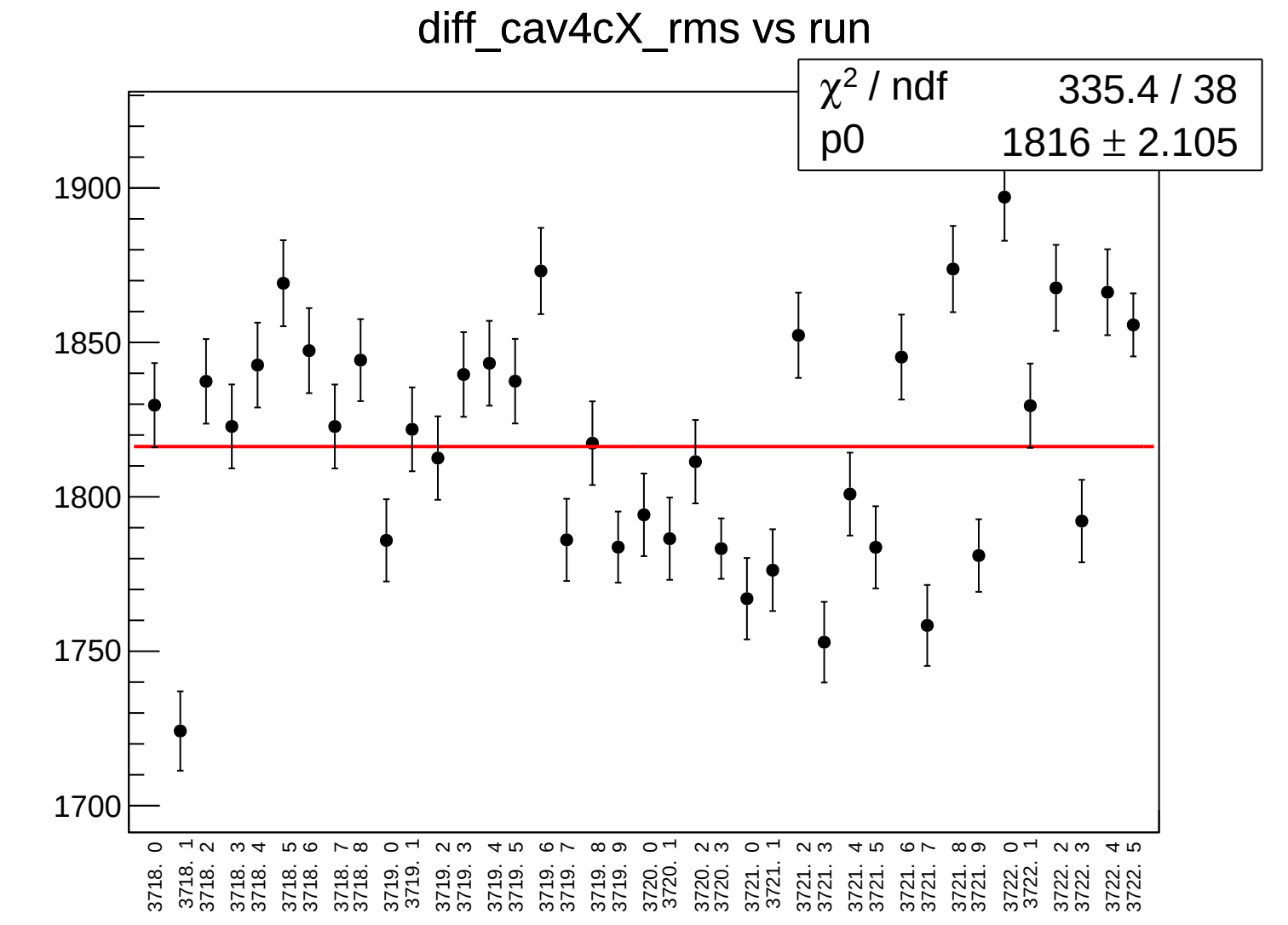

diff_cav4bY_mean vs run
χ² / ndf 32.5 / 38
p0 −0.3896 ± 1.223
4000
3000
2000
1000
0
−1000
−2000
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 90.55
Std Dev 77.36
2
1.5
1
0.5
0
−0.5
−1
−1.5

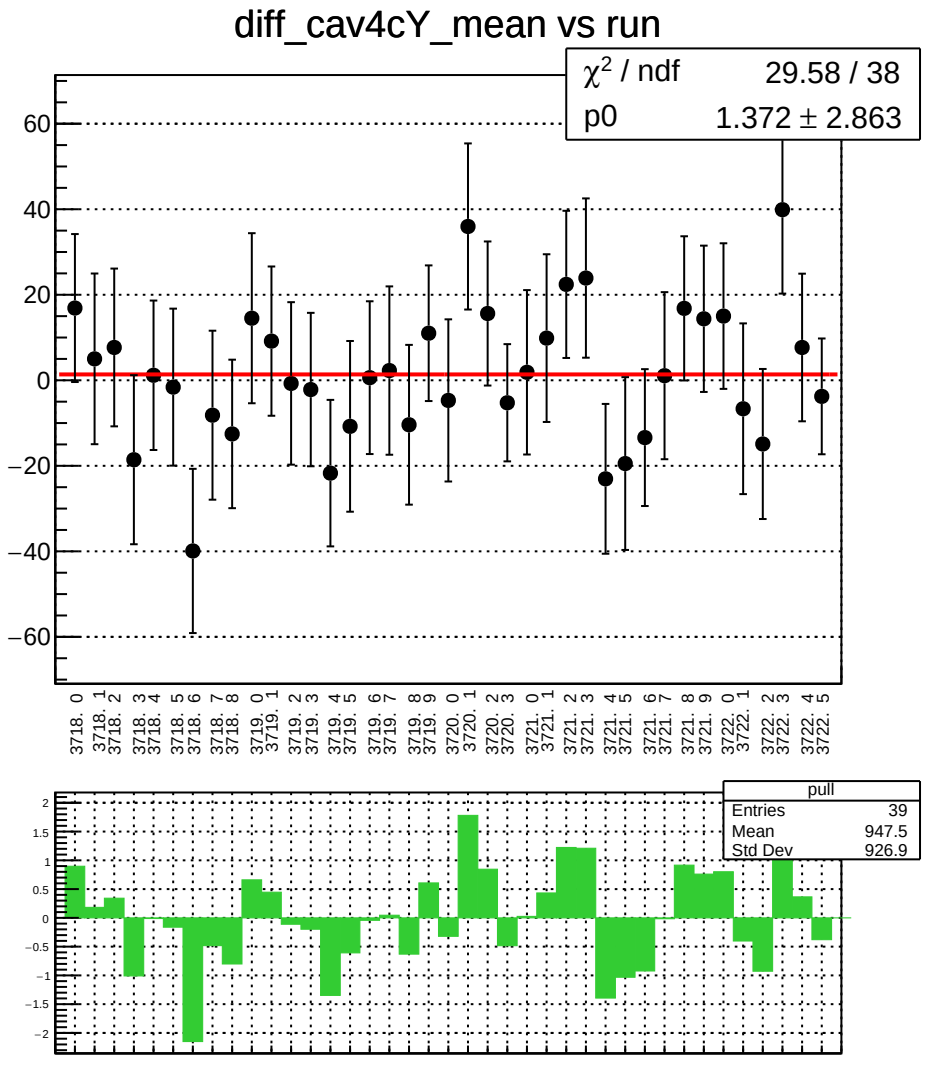

pull1D
Entries 39
Mean 0.02698
Std Dev 0.9125
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

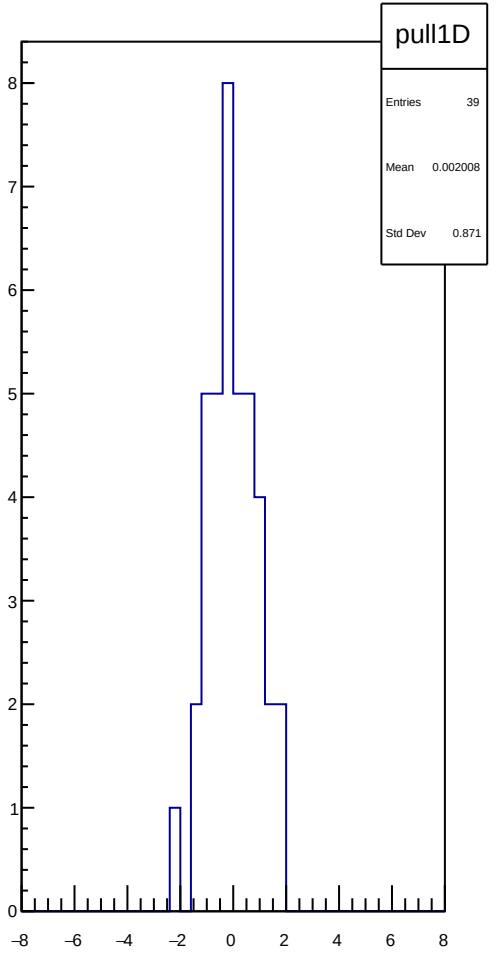

diff_cav4bY_rms vs run
×10^3
χ² / ndf 3.192e+05 / 38
p0 563.8 ± 0.8645
140
120
100
80
60
40
20
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

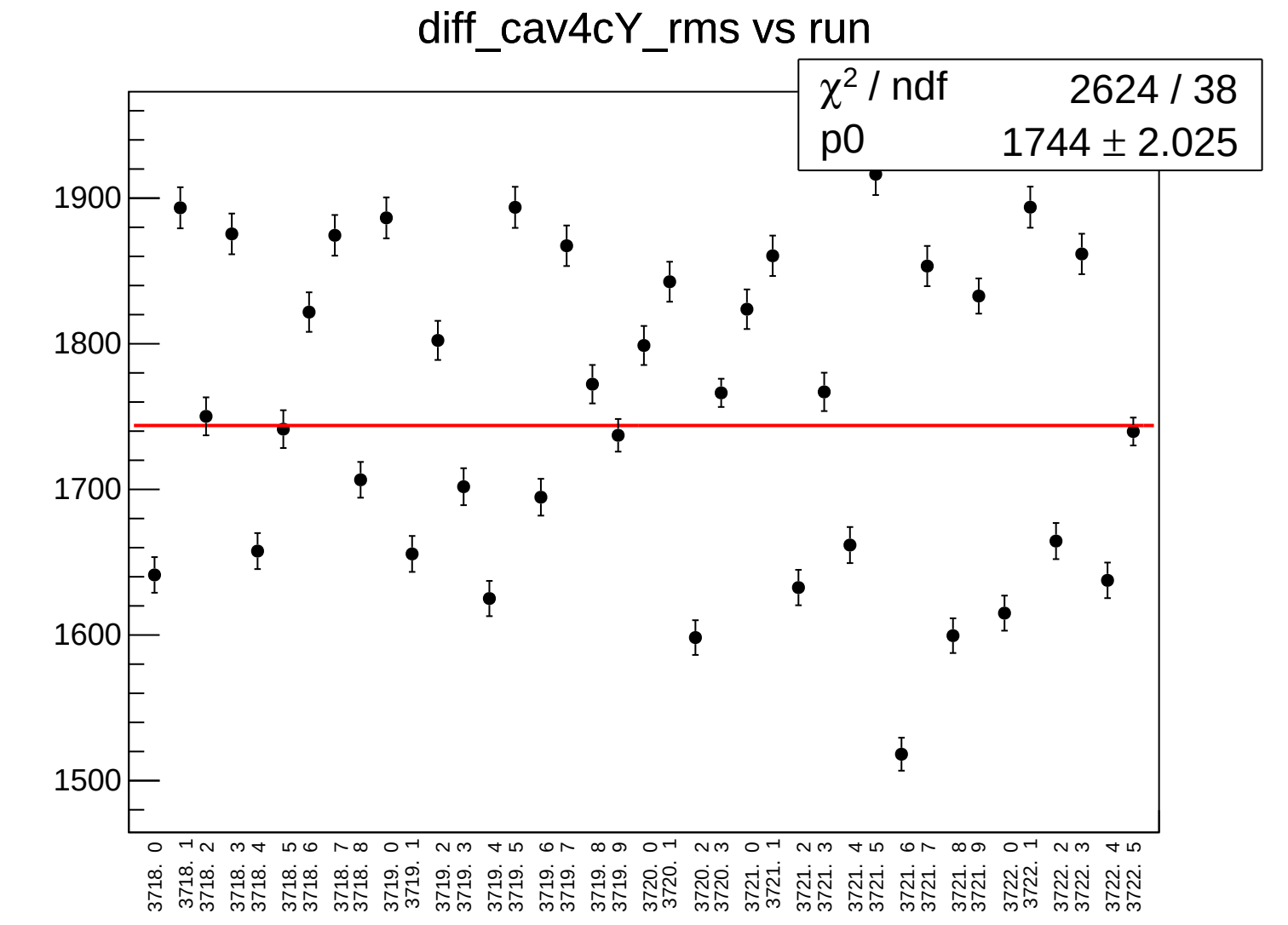

diff_cav4cX_mean vs run
χ² / ndf 46.78 / 38
p0 2.058 ± 2.978
80
60
40
20
0
−20
−40
−60
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −397.4
Std Dev 406.9
3
2
1
0
−1
−2

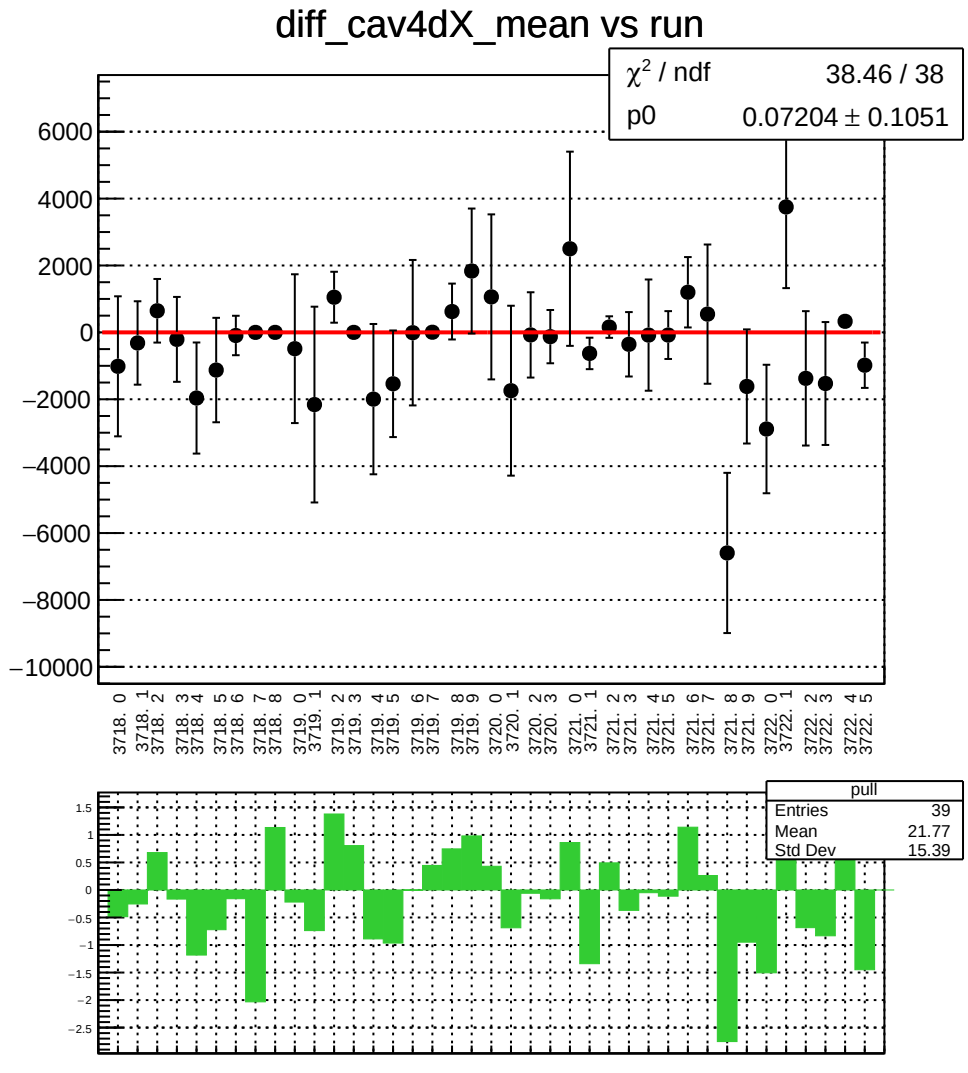

pull1D
Entries 39
Mean −0.002674
Std Dev 1.095
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

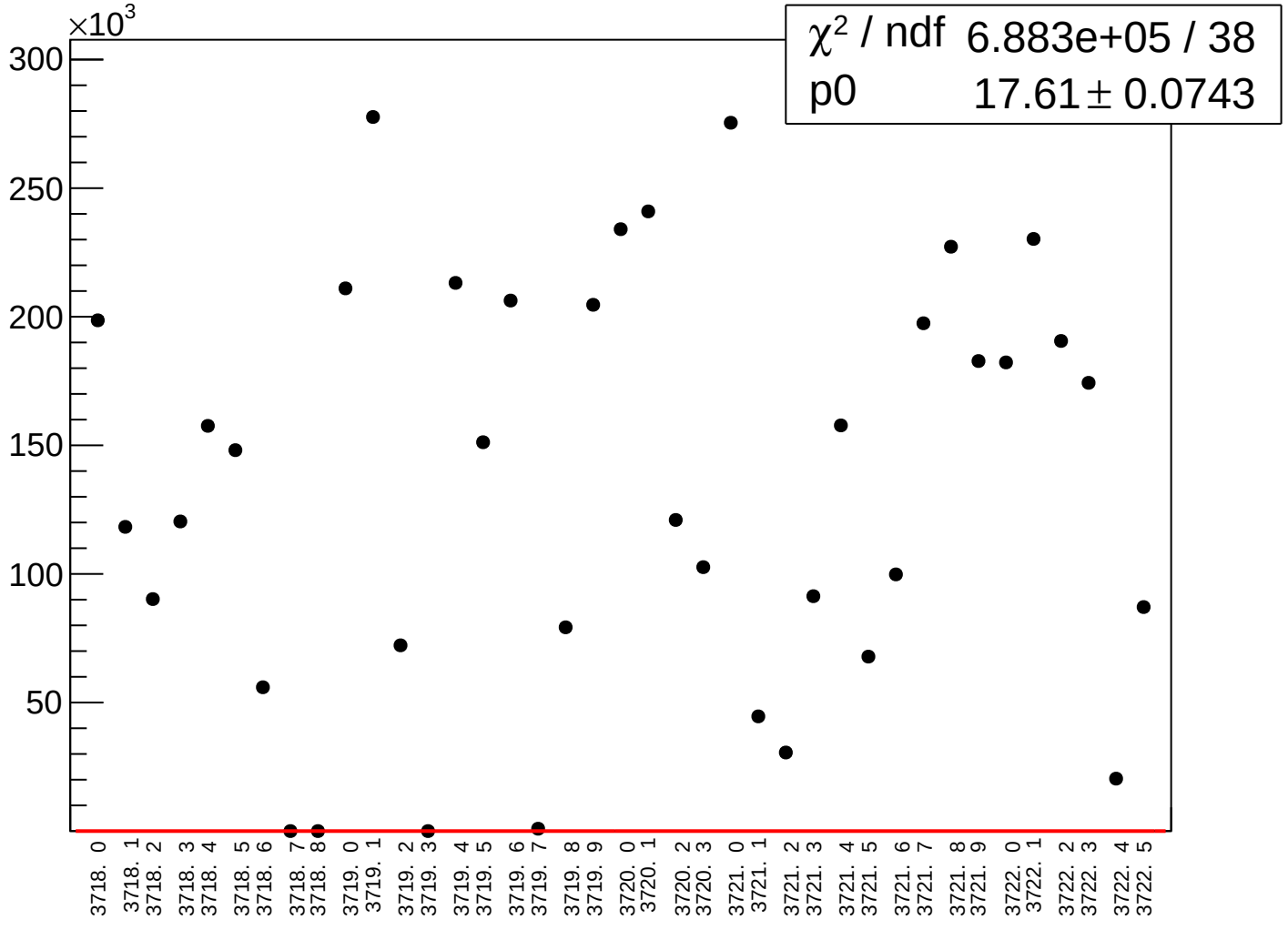

diff_cav4cX_rms vs run
χ² / ndf 335.4 / 38
p0 1816 ± 2.105
1900
1850
1800
1750
1700
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

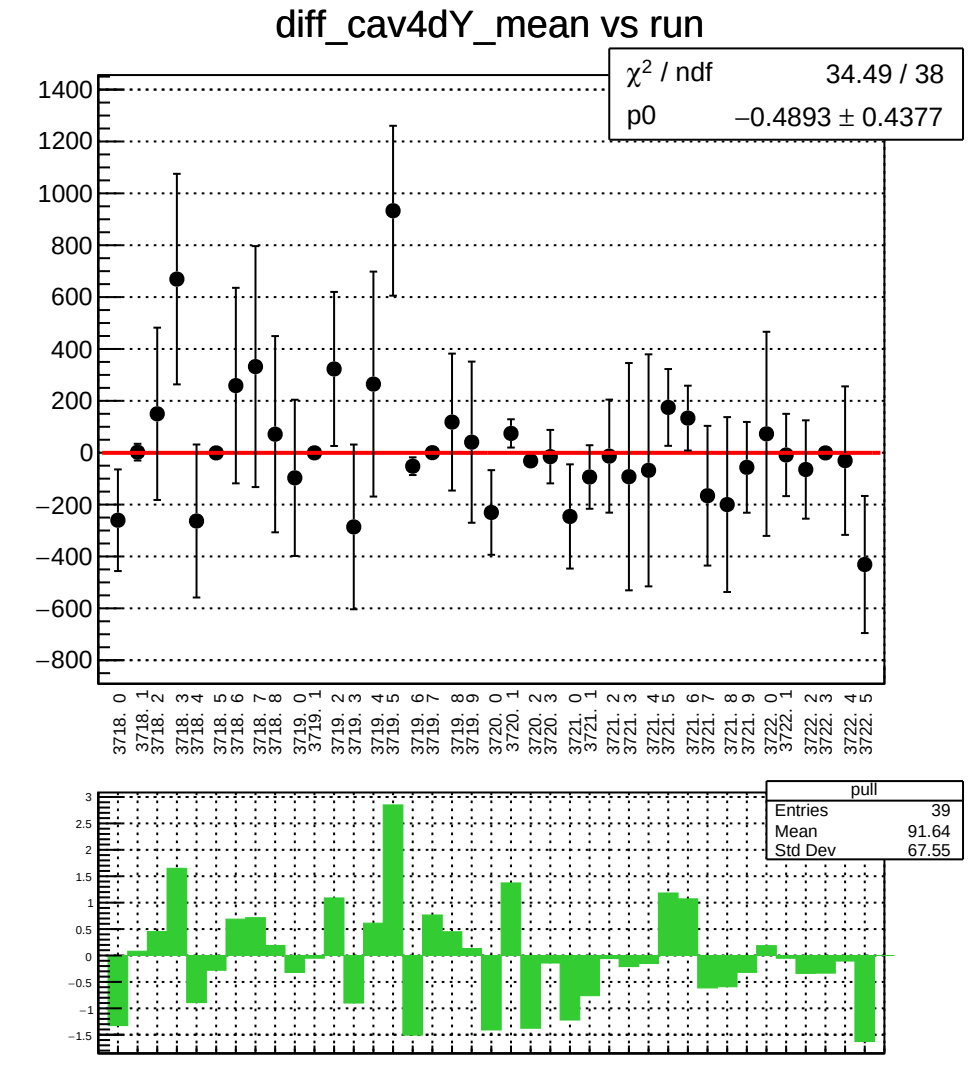

diff_cav4cY_mean vs run
χ² / ndf 29.58 / 38
p0 1.372 ± 2.863
60
40
20
0
−20
−40
−60
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 947.5
Std Dev 926.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

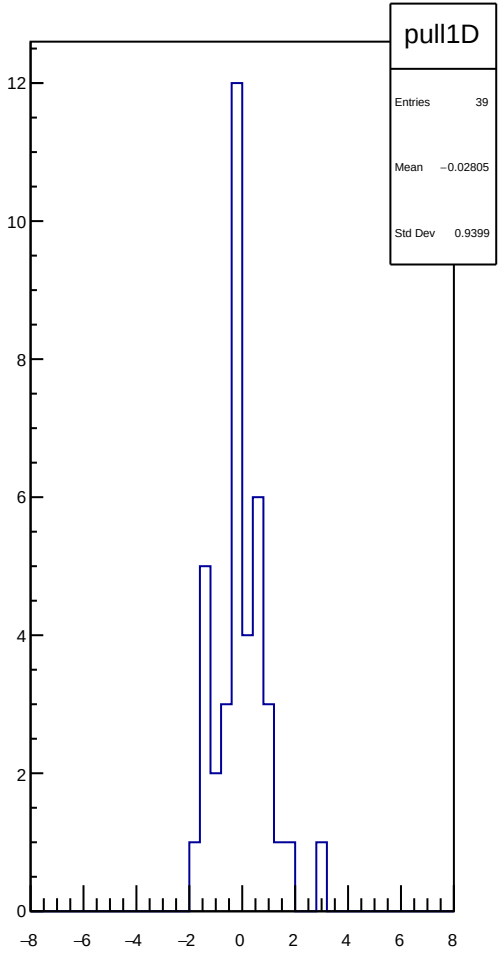

pull1D
Entries 39
Mean 0.002008
Std Dev 0.871
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

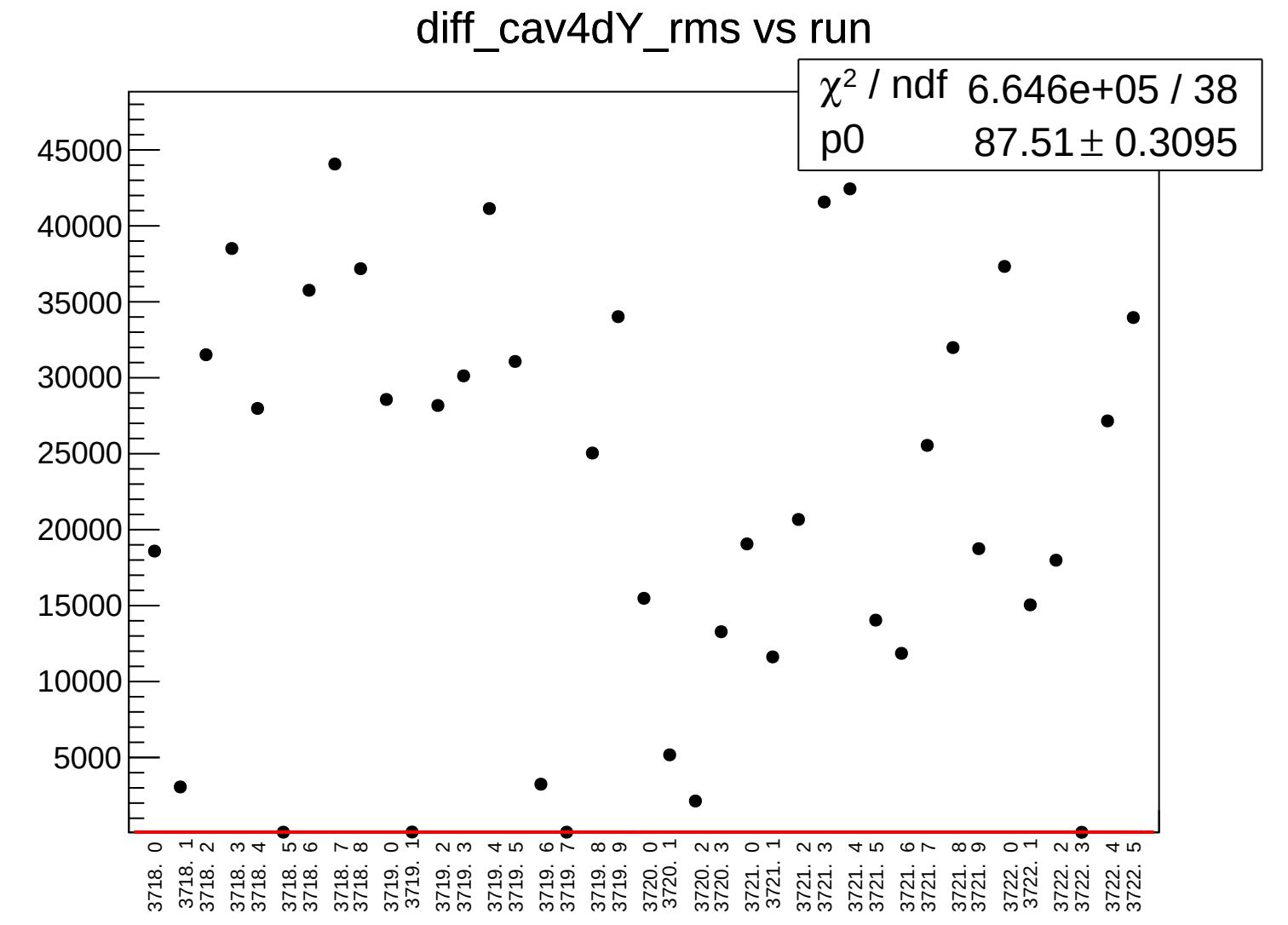

diff_cav4cY_rms vs run
χ² / ndf 2624 / 38
p0 1744 ± 2.025
1900
1800
1700
1600
1500
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

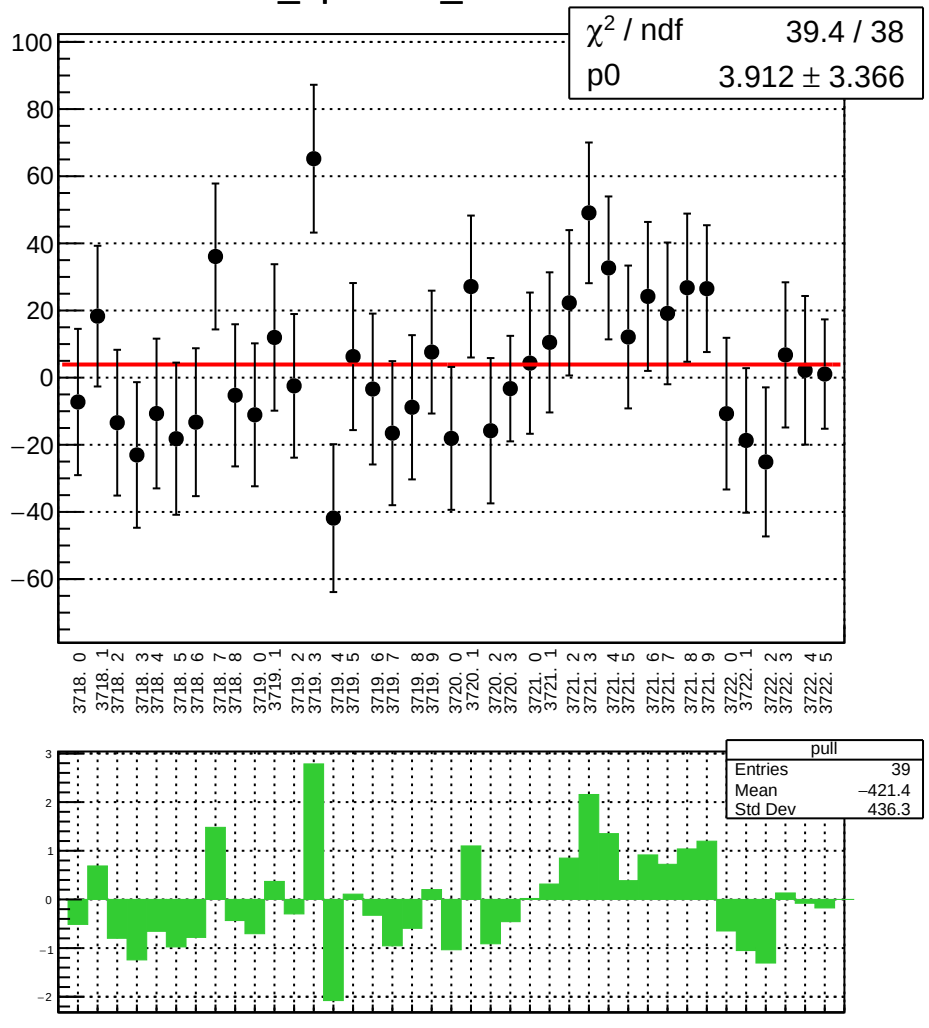

diff_cav4dX_mean vs run
χ² / ndf 38.46 / 38
p0 0.07204 ± 0.1051
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 21.77
Std Dev 15.39
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 39
Mean −0.1619
Std Dev 0.9798
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

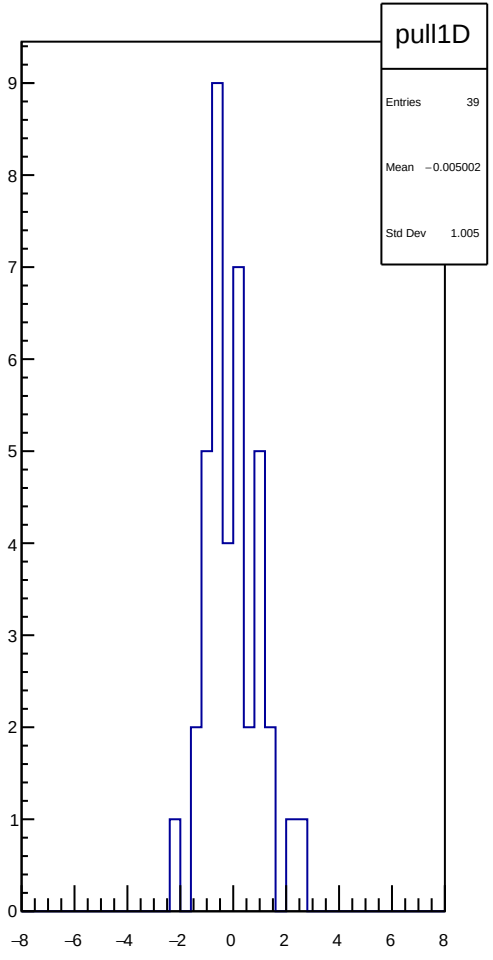

diff_cav4dX_rms vs run
×10^3
χ² / ndf 6.883e+05 / 38
p0 17.61 ± 0.0743
300
250
200
150
100
50
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

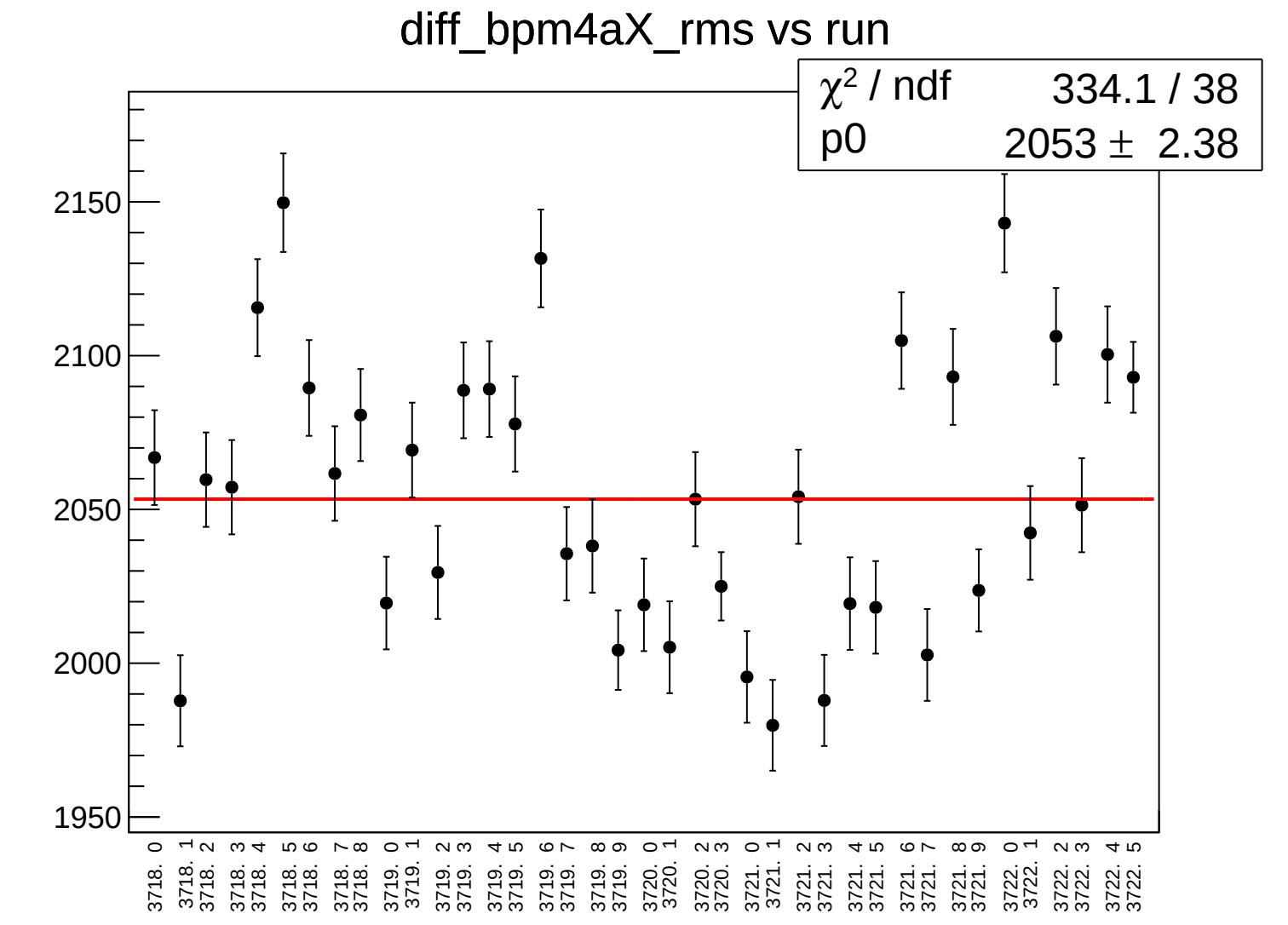

diff_cav4dY_mean vs run
χ² / ndf 34.49 / 38
p0 −0.4893 ± 0.4377
pull
Entries 39
Mean 91.64
Std Dev 67.55

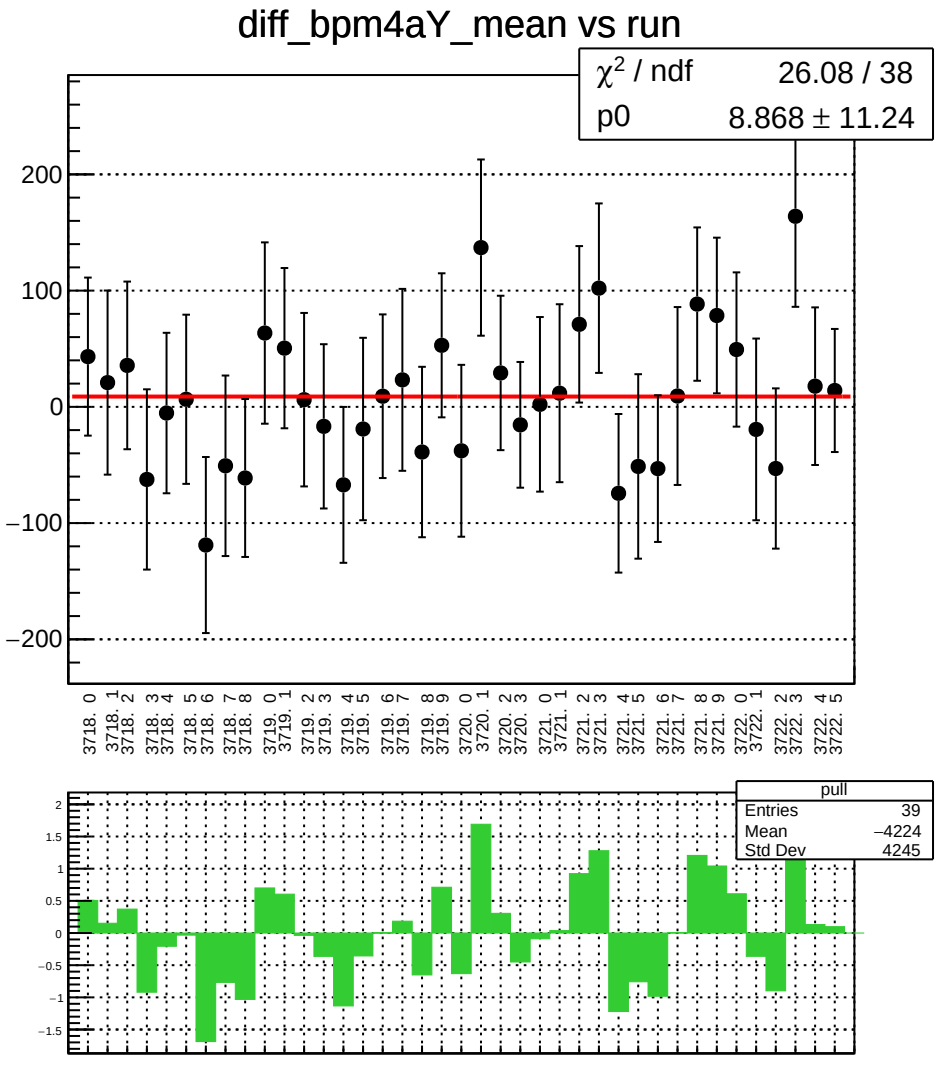

pull1D
Entries 39
Mean −0.02805
Std Dev 0.9399

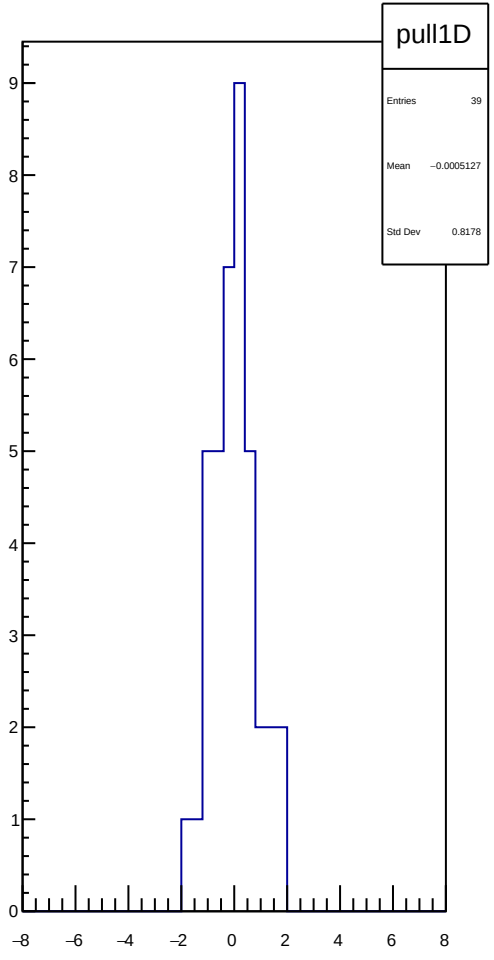

diff_cav4dY_rms vs run
χ² / ndf 6.646e+05 / 38
p0 87.51 ± 0.3095
45000
40000
35000
30000
25000
20000
15000
10000
5000
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

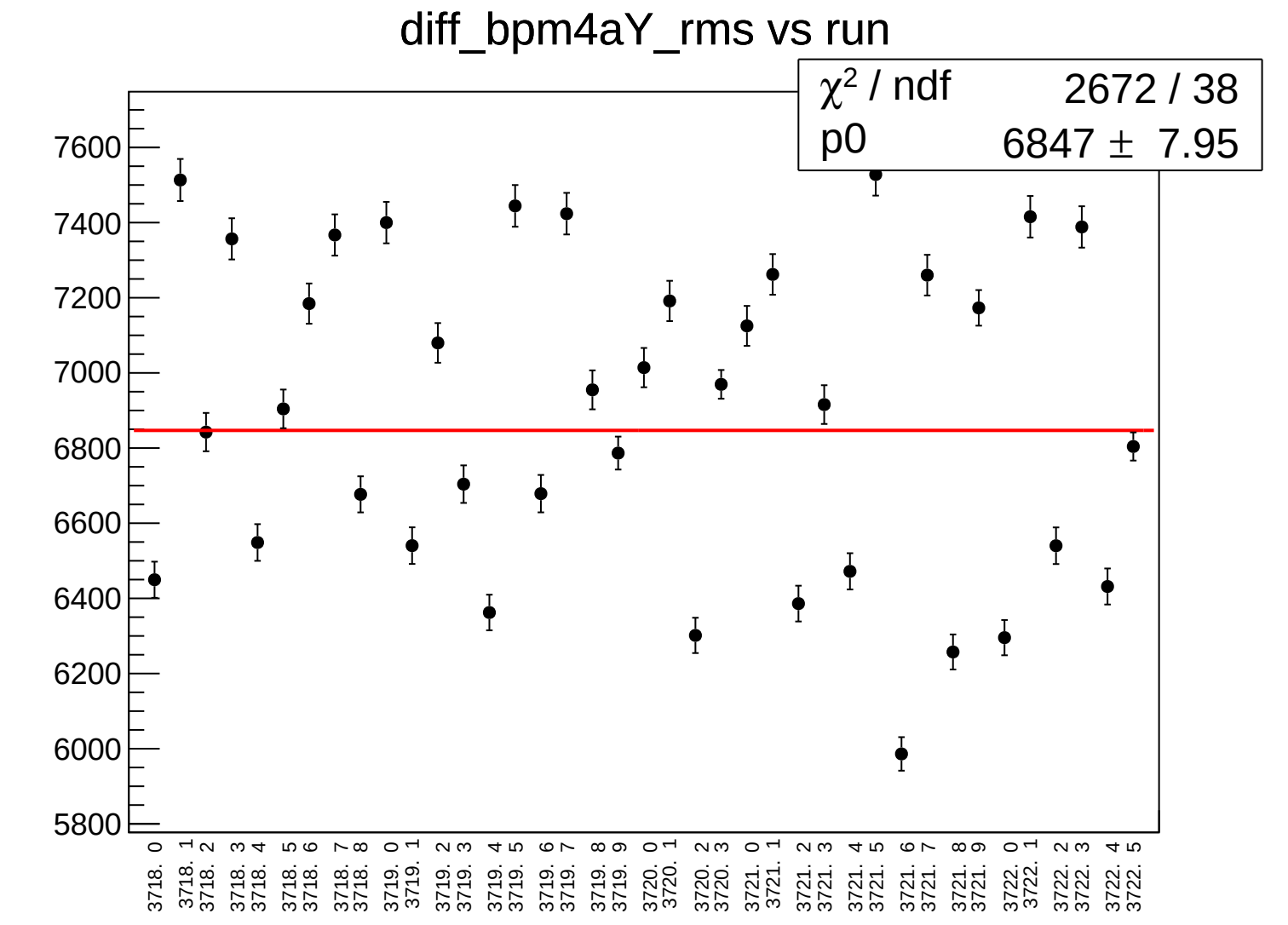

diff_bpm4aX_mean vs run
χ² / ndf 39.4 / 38
p0 3.912 ± 3.366
pull
Entries 39
Mean −421.4
Std Dev 436.3

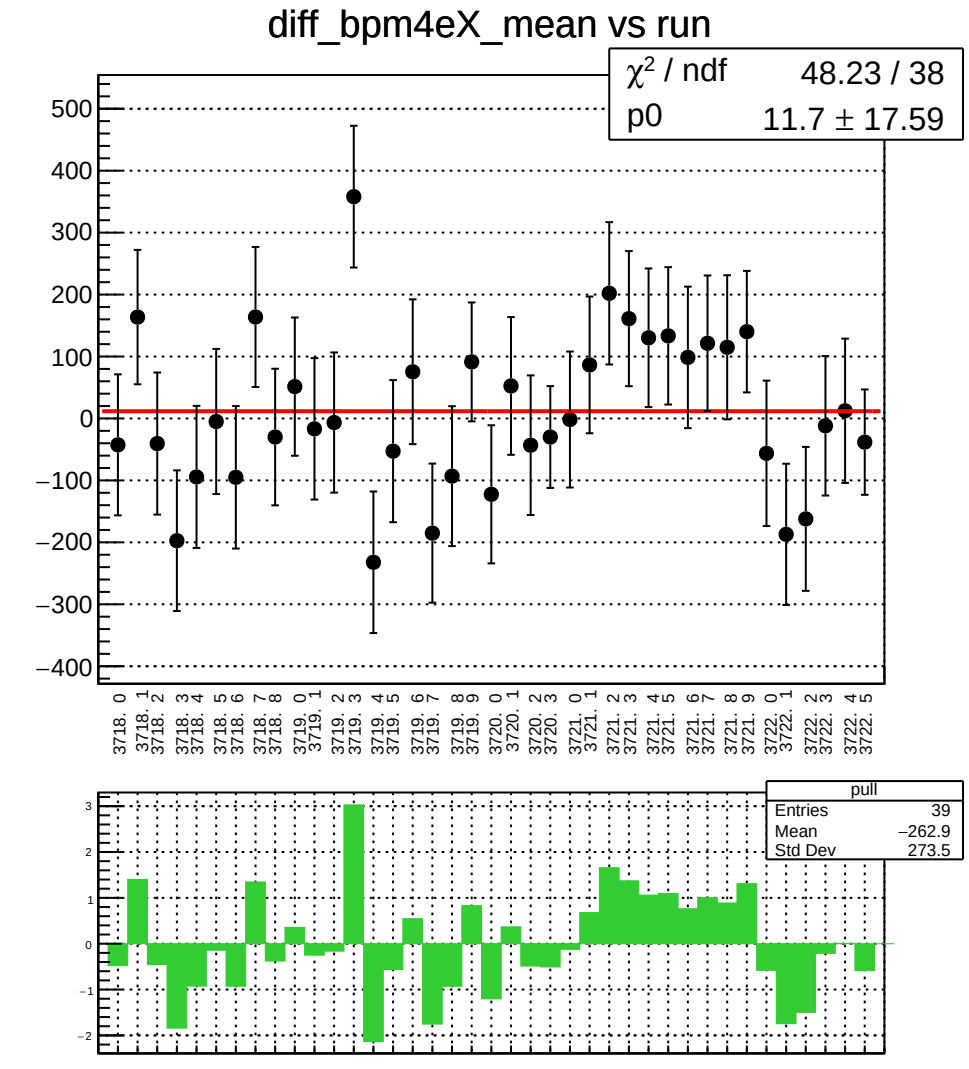

pull1D
Entries 39
Mean −0.005002
Std Dev 1.005

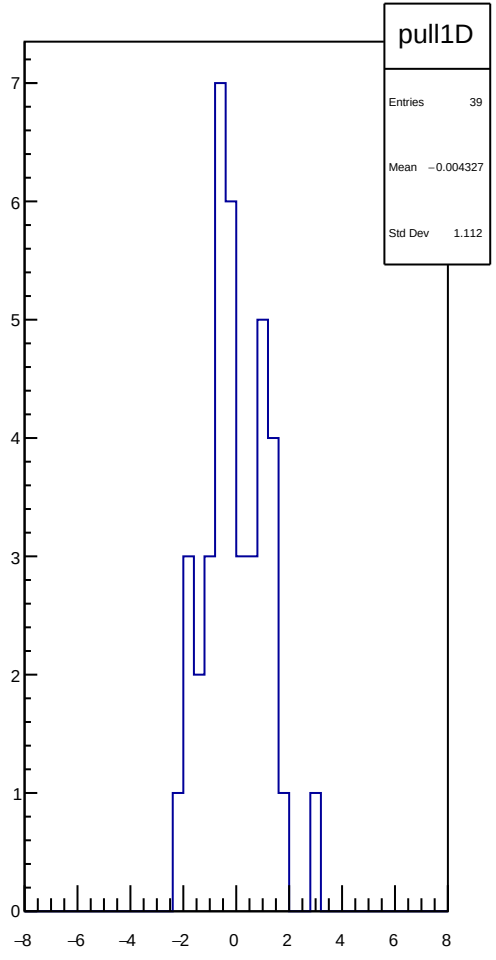

diff_bpm4aX_rms vs run
χ² / ndf 334.1 / 38
p0 2053 ± 2.38
2150
2100
2050
2000
1950
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

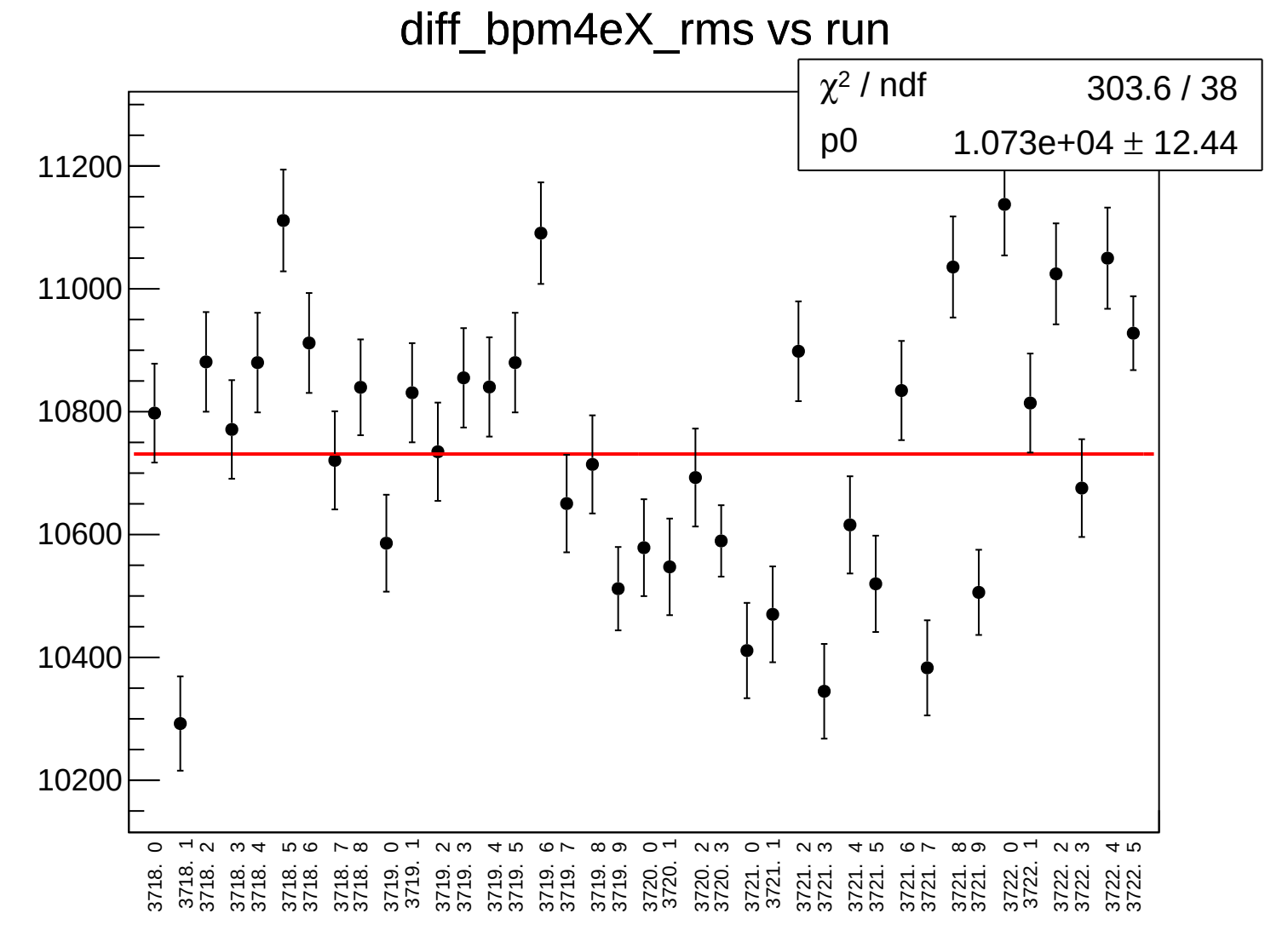

diff_bpm4aY_mean vs run
χ² / ndf 26.08 / 38
p0 8.868 ± 11.24
200
100
0
−100
−200
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −4224
Std Dev 4245
2
1.5
1
0.5
0
−0.5
−1
−1.5

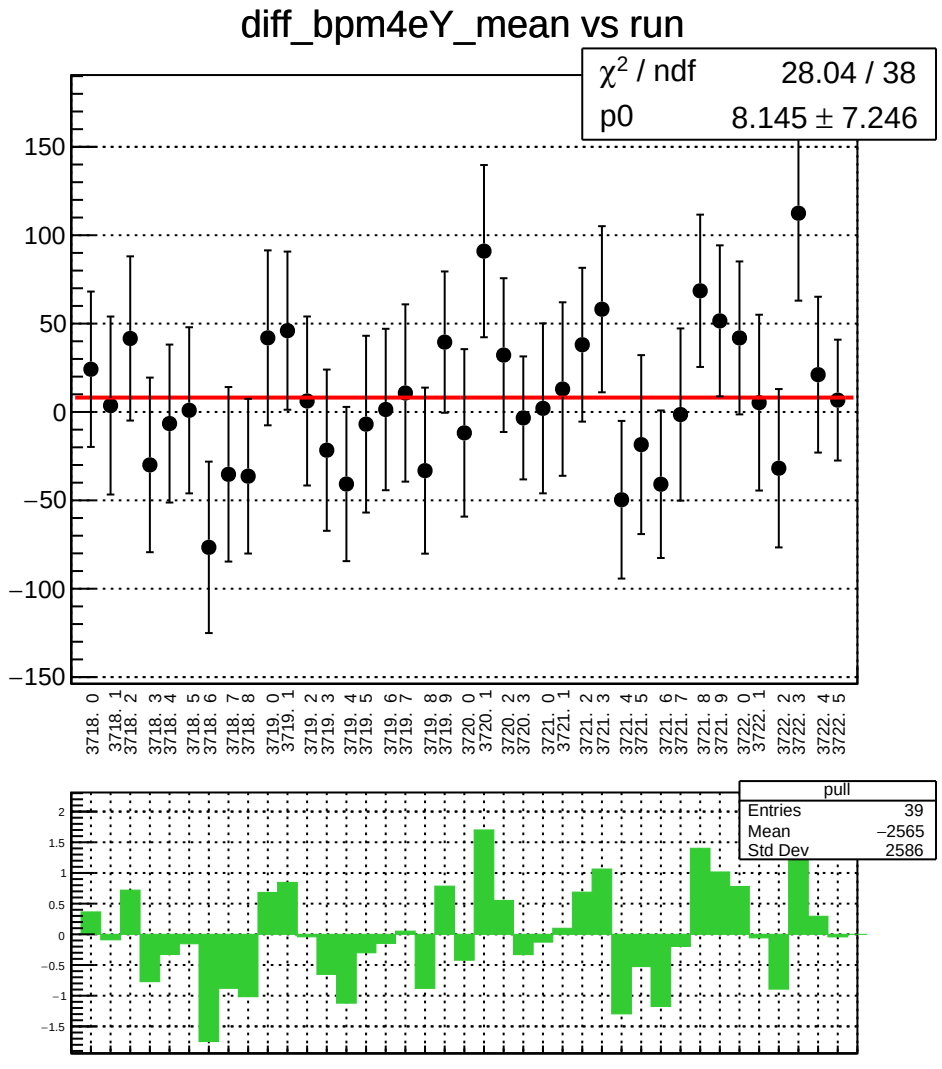

pull1D
Entries 39
Mean −0.0005127
Std Dev 0.8178
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

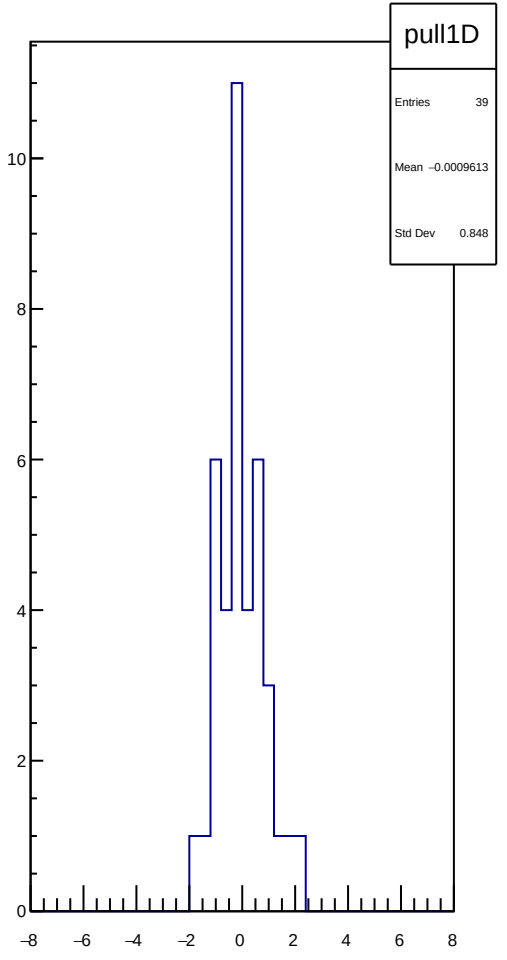

diff_bpm4aY_rms vs run
χ² / ndf 2672 / 38
p0 6847 ± 7.95
7600
7400
7200
7000
6800
6600
6400
6200
6000
5800
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

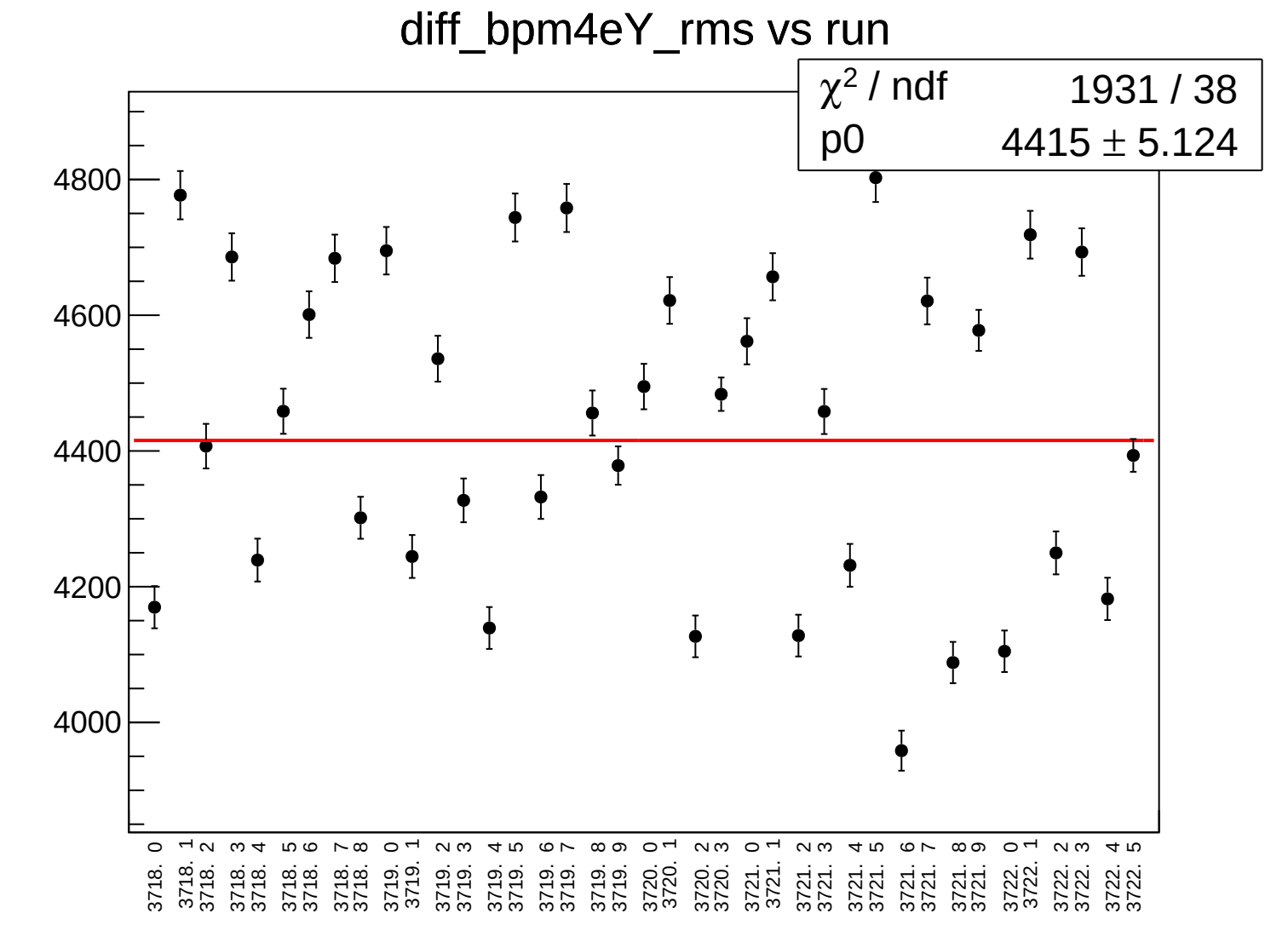

diff_bpm4eX_mean vs run
χ² / ndf 48.23 / 38
p0 11.7 ± 17.59
pull
Entries 39
Mean −262.9
Std Dev 273.5

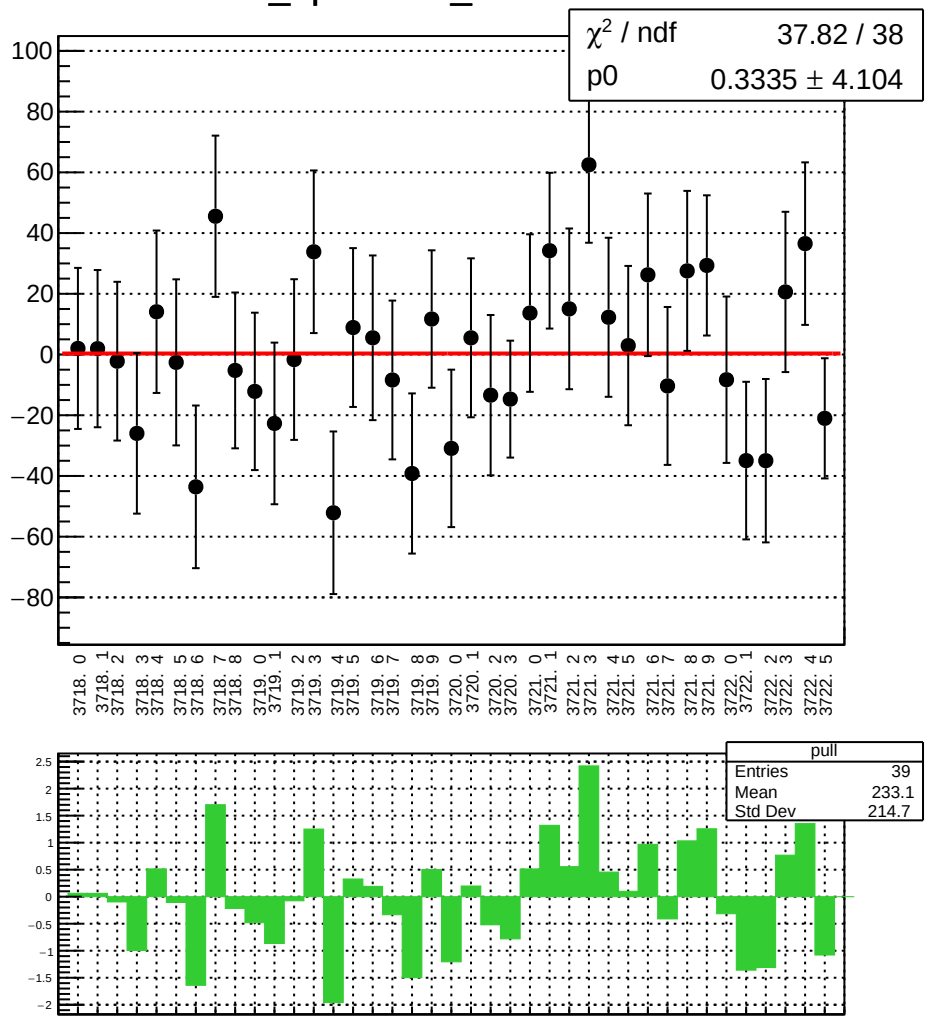

pull1D
Entries 39
Mean −0.004327
Std Dev 1.112

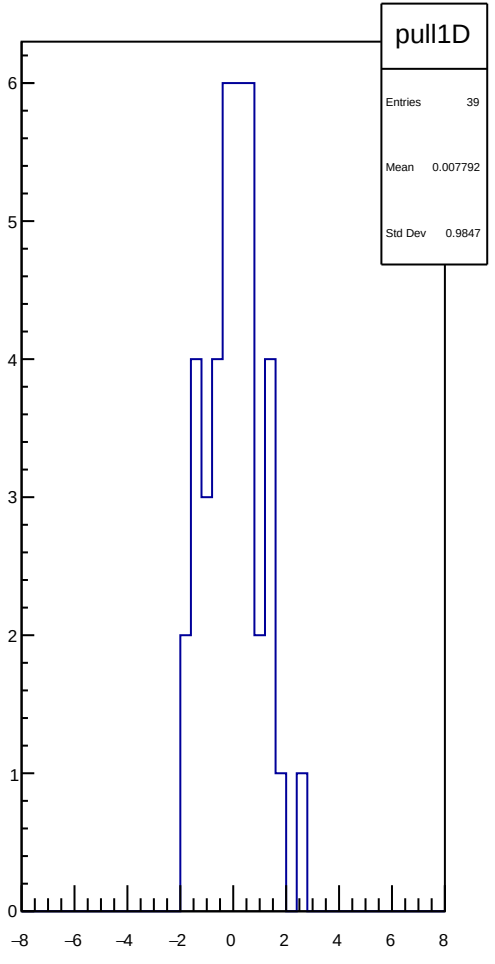

diff_bpm4eX_rms vs run
χ² / ndf 303.6 / 38
p0 1.073e+04 ± 12.44
11200
11000
10800
10600
10400
10200
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

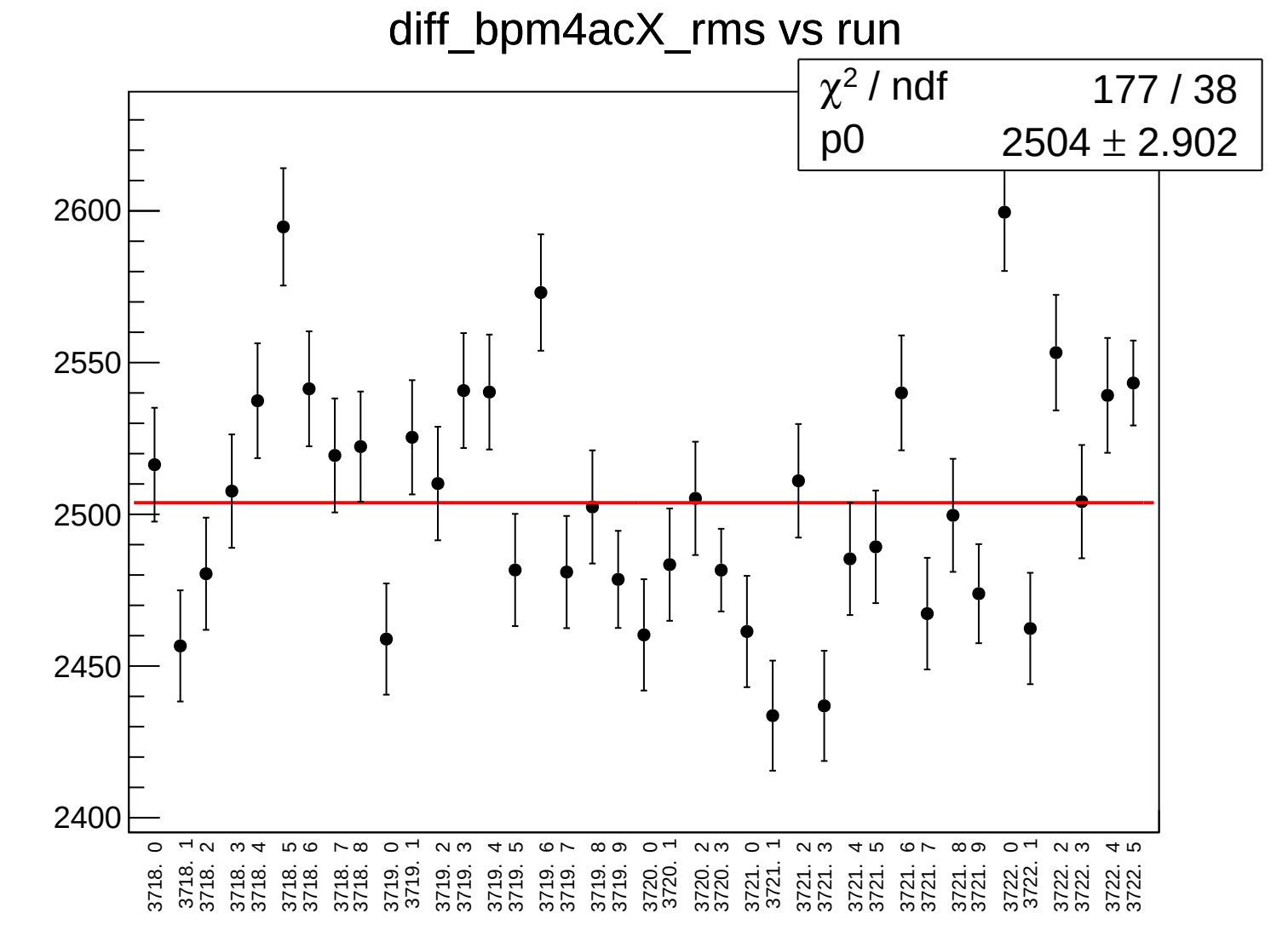

diff_bpm4eY_mean vs run
χ² / ndf 28.04 / 38
p0 8.145 ± 7.246
150
100
50
0
−50
−100
−150
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −2565
Std Dev 2586
2
1.5
1
0.5
0
−0.5
−1
−1.5

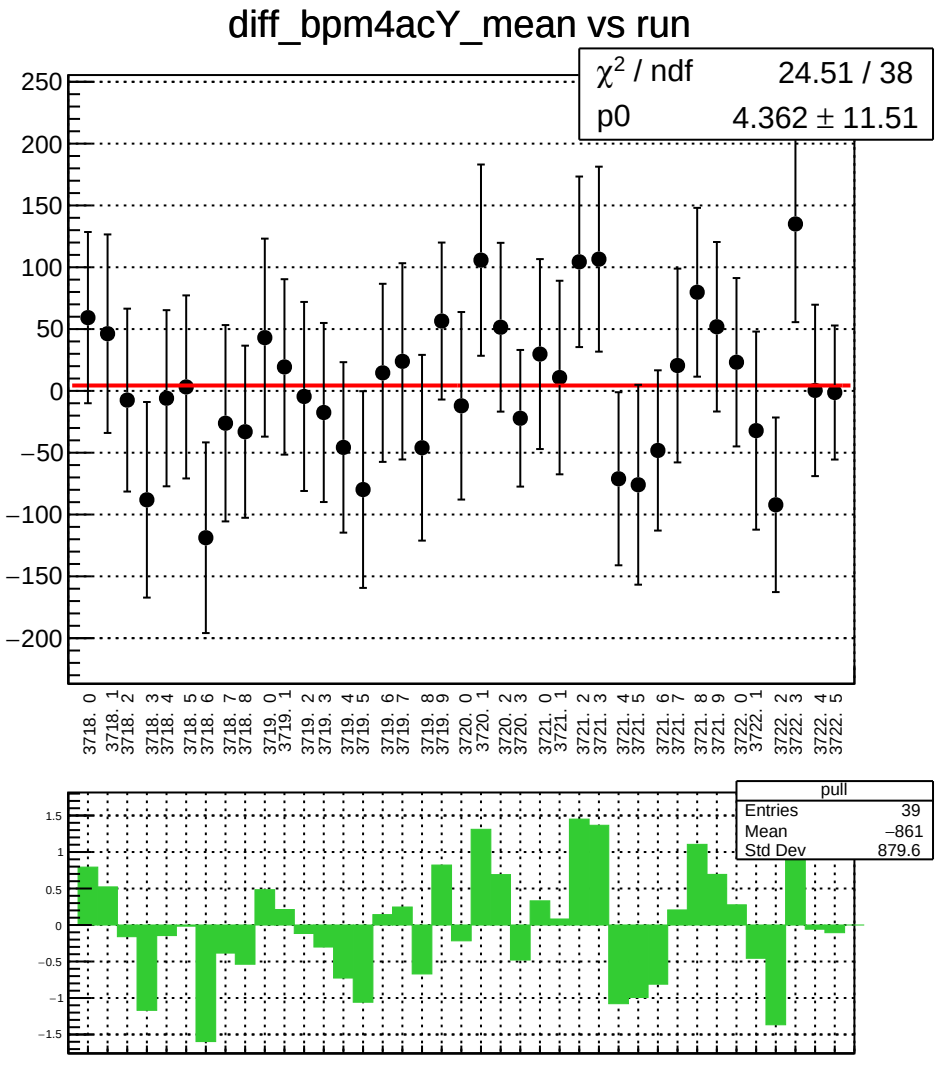

pull1D
Entries 39
Mean −0.0009613
Std Dev 0.848
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

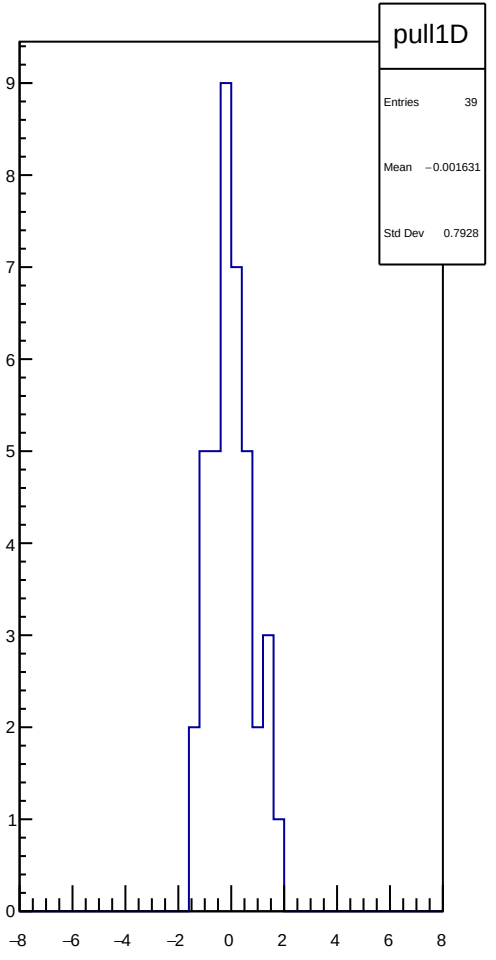

diff_bpm4eY_rms vs run
χ² / ndf 1931 / 38
p0 4415 ± 5.124
4800
4600
4400
4200
4000
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

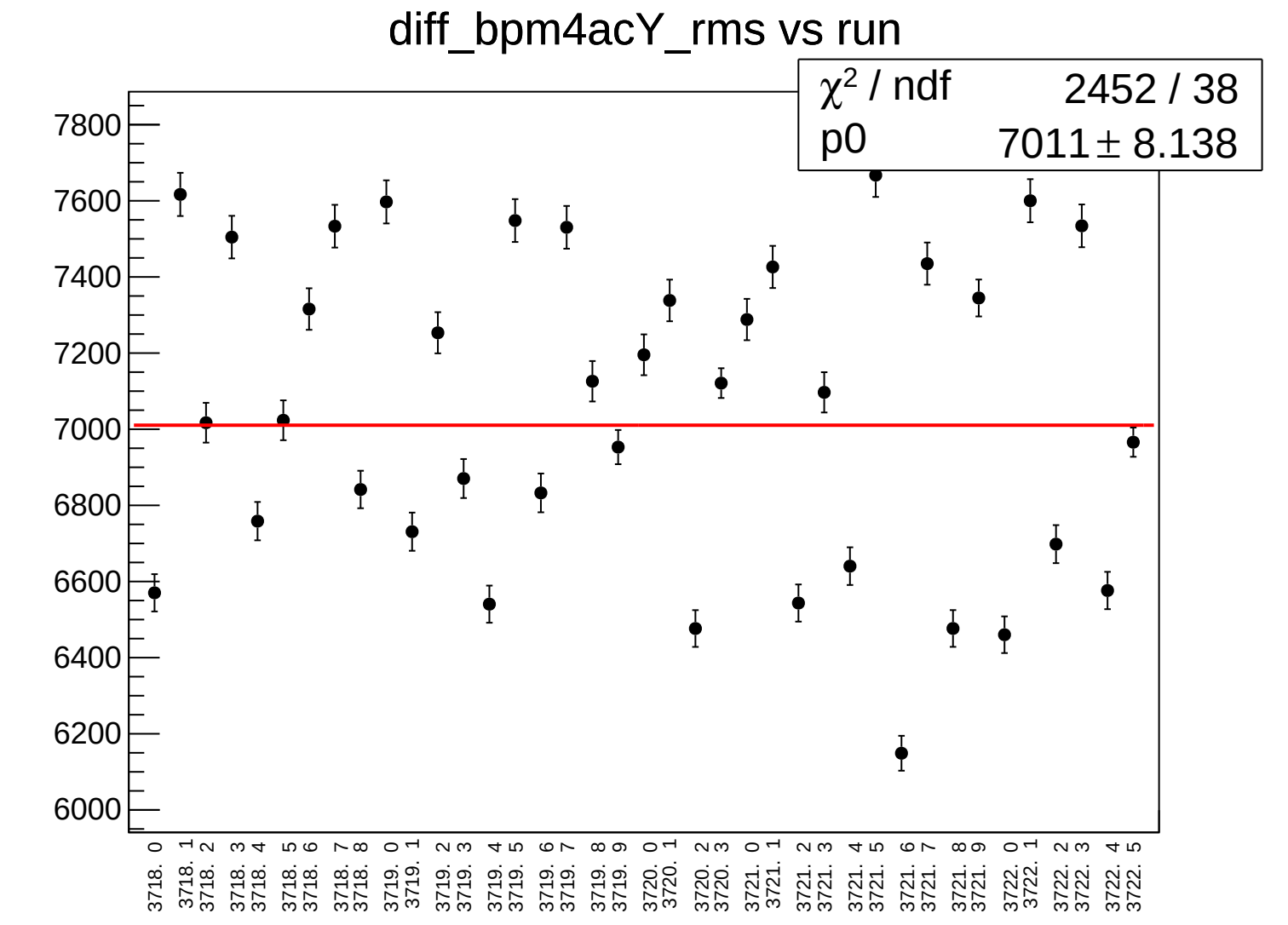

diff_bpm4acX_mean vs run
χ² / ndf 37.82 / 38
p0 0.3335 ± 4.104
pull
Entries 39
Mean 233.1
Std Dev 214.7

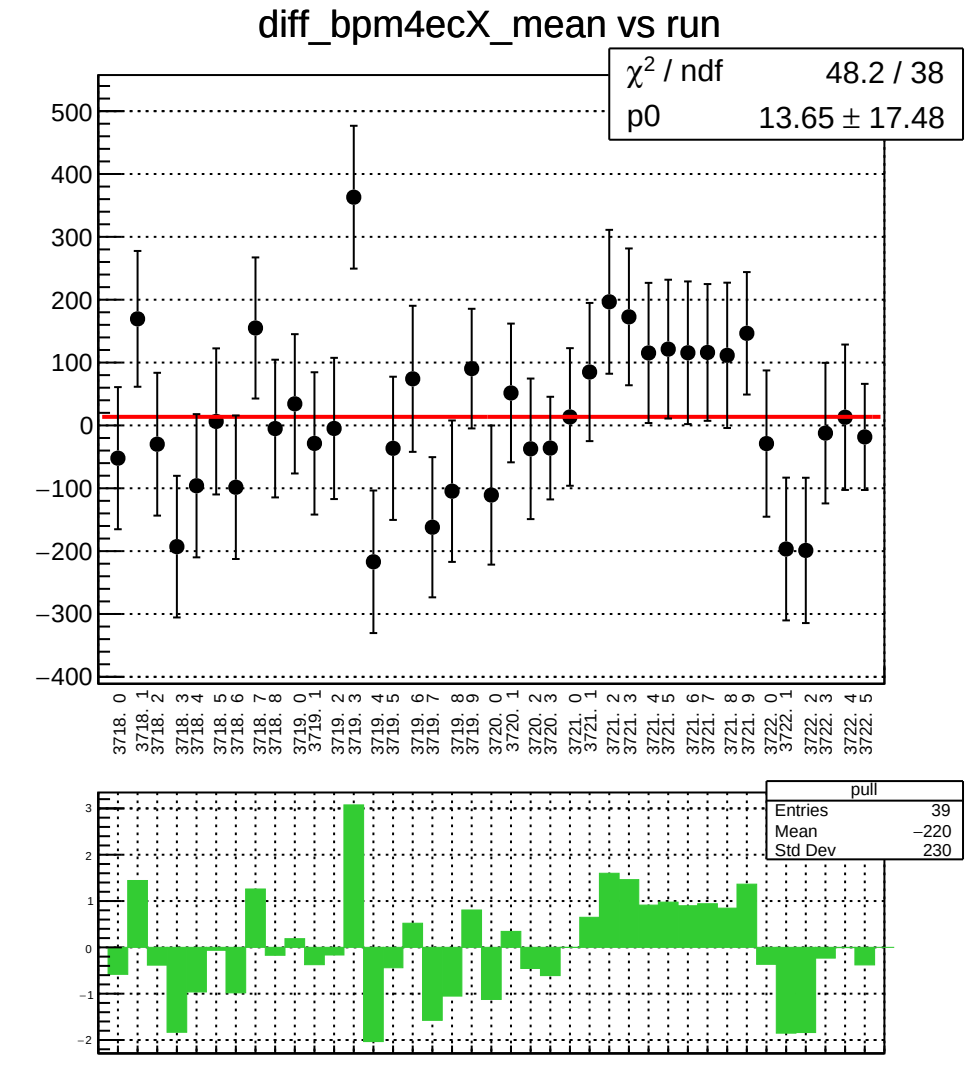

pull1D
Entries 39
Mean 0.007792
Std Dev 0.9847

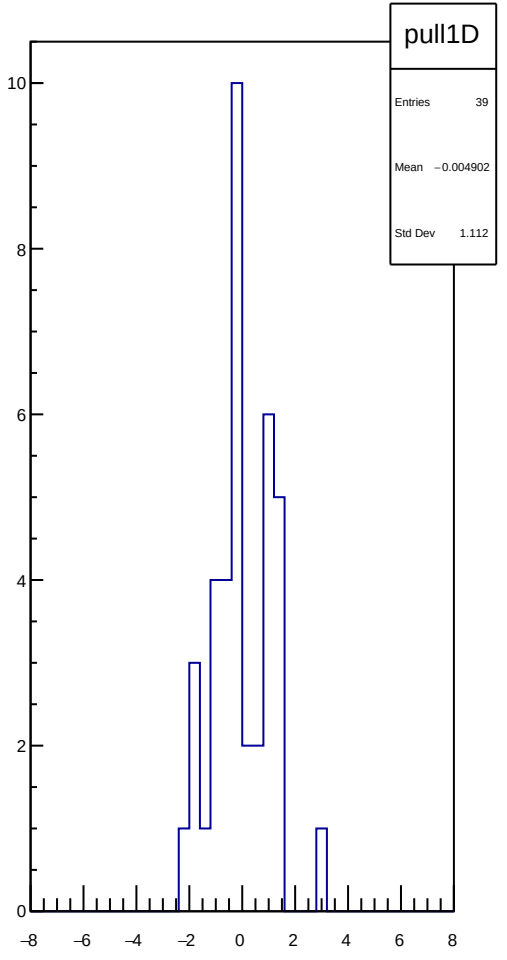

diff_bpm4acX_rms vs run
χ² / ndf 177 / 38
p0 2504 ± 2.902
2600
2550
2500
2450
2400
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

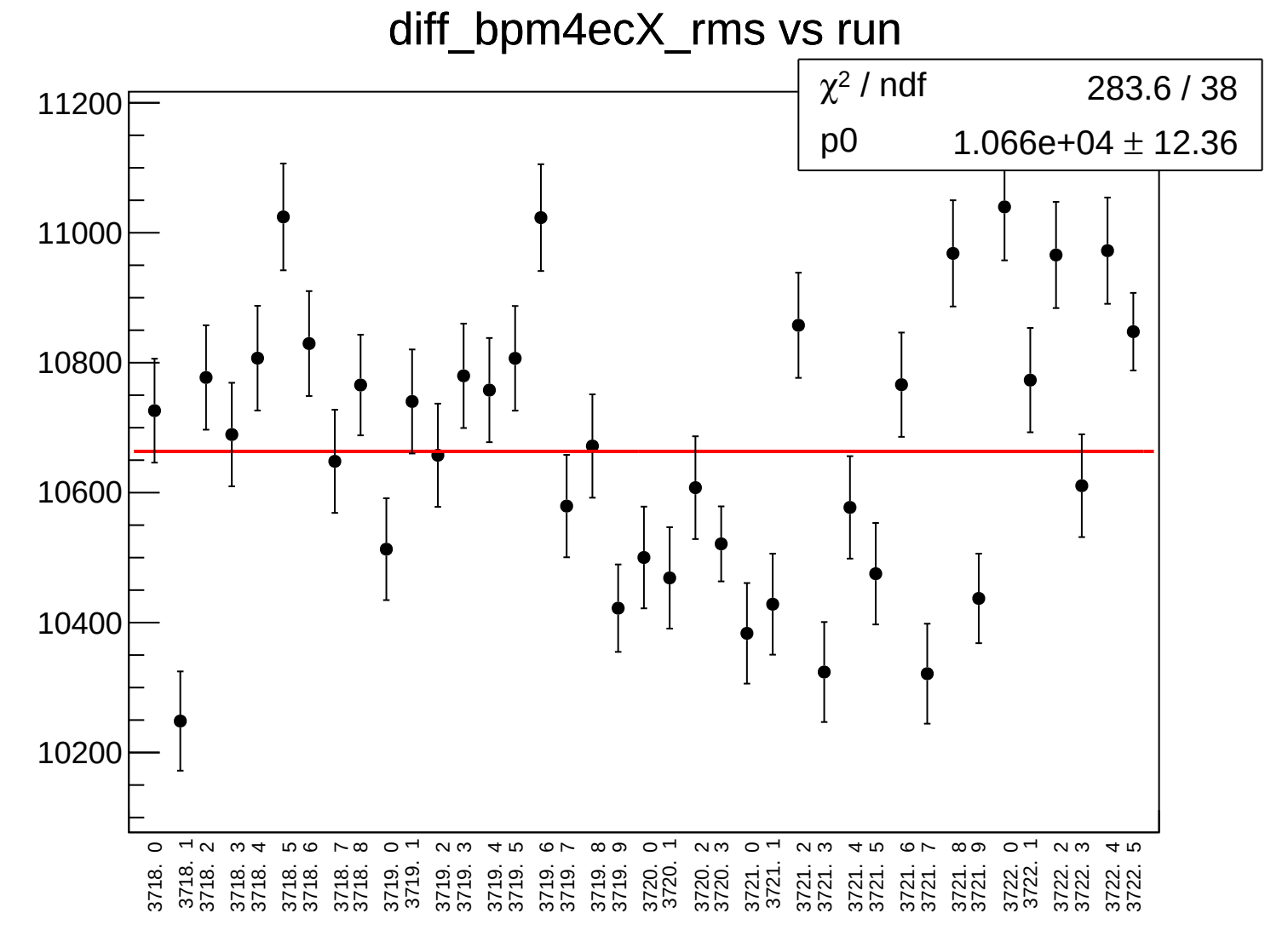

diff_bpm4acY_mean vs run
χ² / ndf 24.51 / 38
p0 4.362 ± 11.51
250
200
150
100
50
0
−50
−100
−150
−200
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −861
Std Dev 879.6
1.5
1
0.5
0
−0.5
−1
−1.5

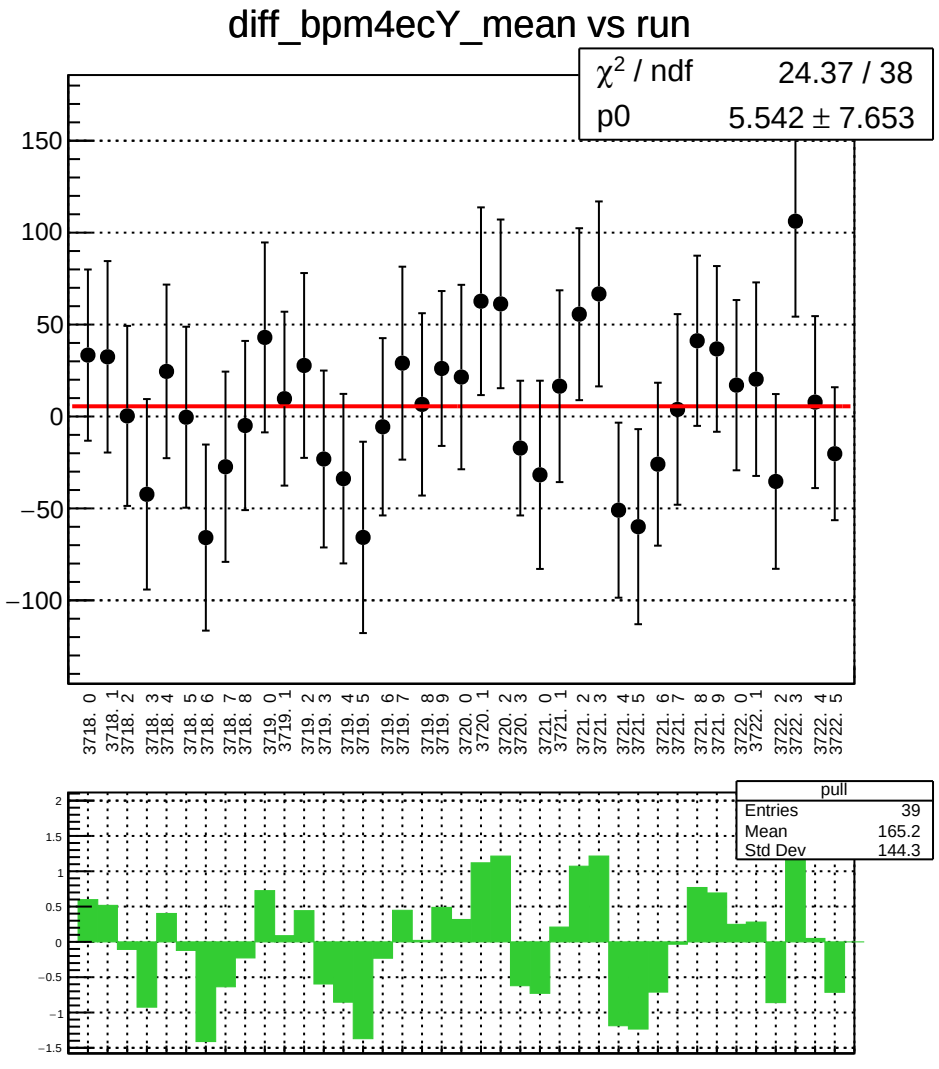

pull1D
Entries 39
Mean −0.001631
Std Dev 0.7928
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

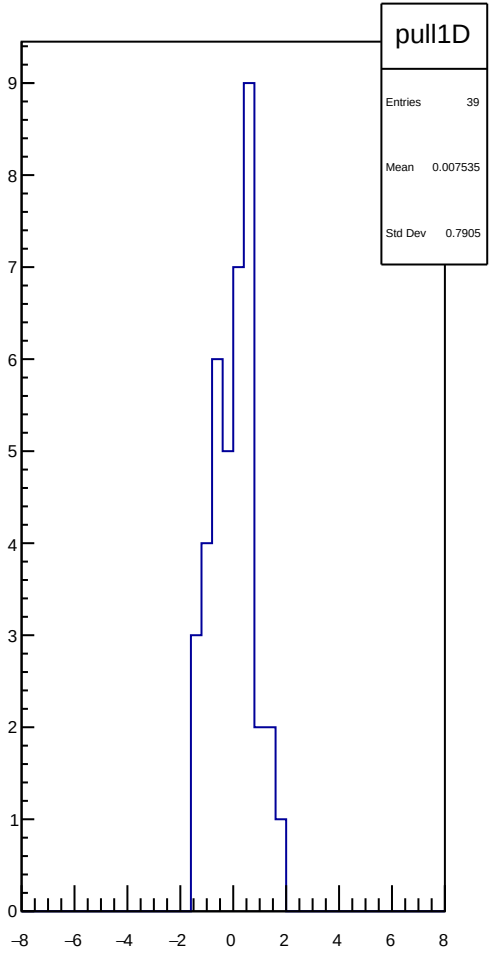

diff_bpm4acY_rms vs run
χ² / ndf 2452 / 38
p0 7011 ± 8.138
7800
7600
7400
7200
7000
6800
6600
6400
6200
6000
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

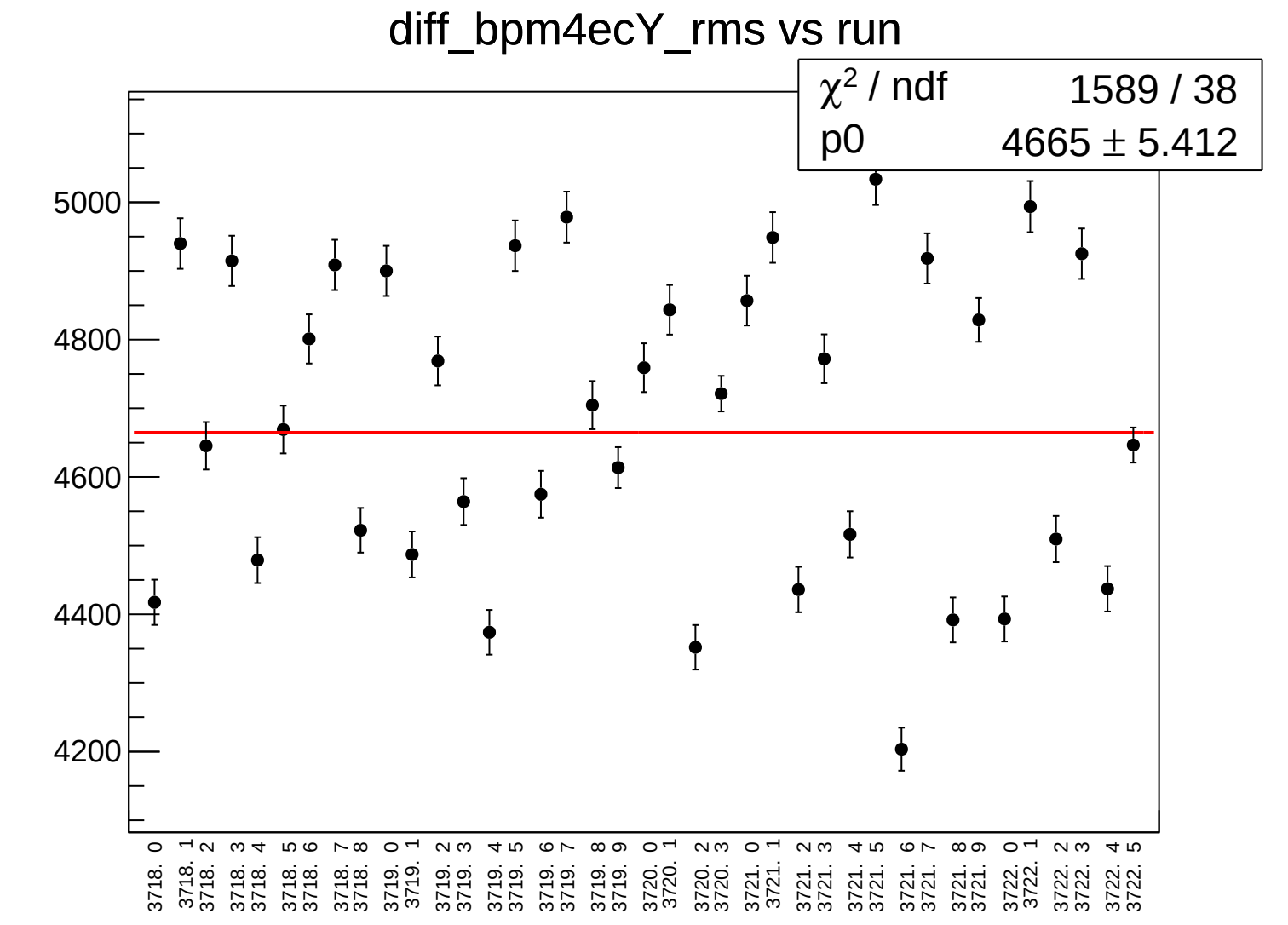

diff_bpm4ecX_mean vs run
χ² / ndf 48.2 / 38
p0 13.65 ± 17.48
pull
Entries 39
Mean −220
Std Dev 230

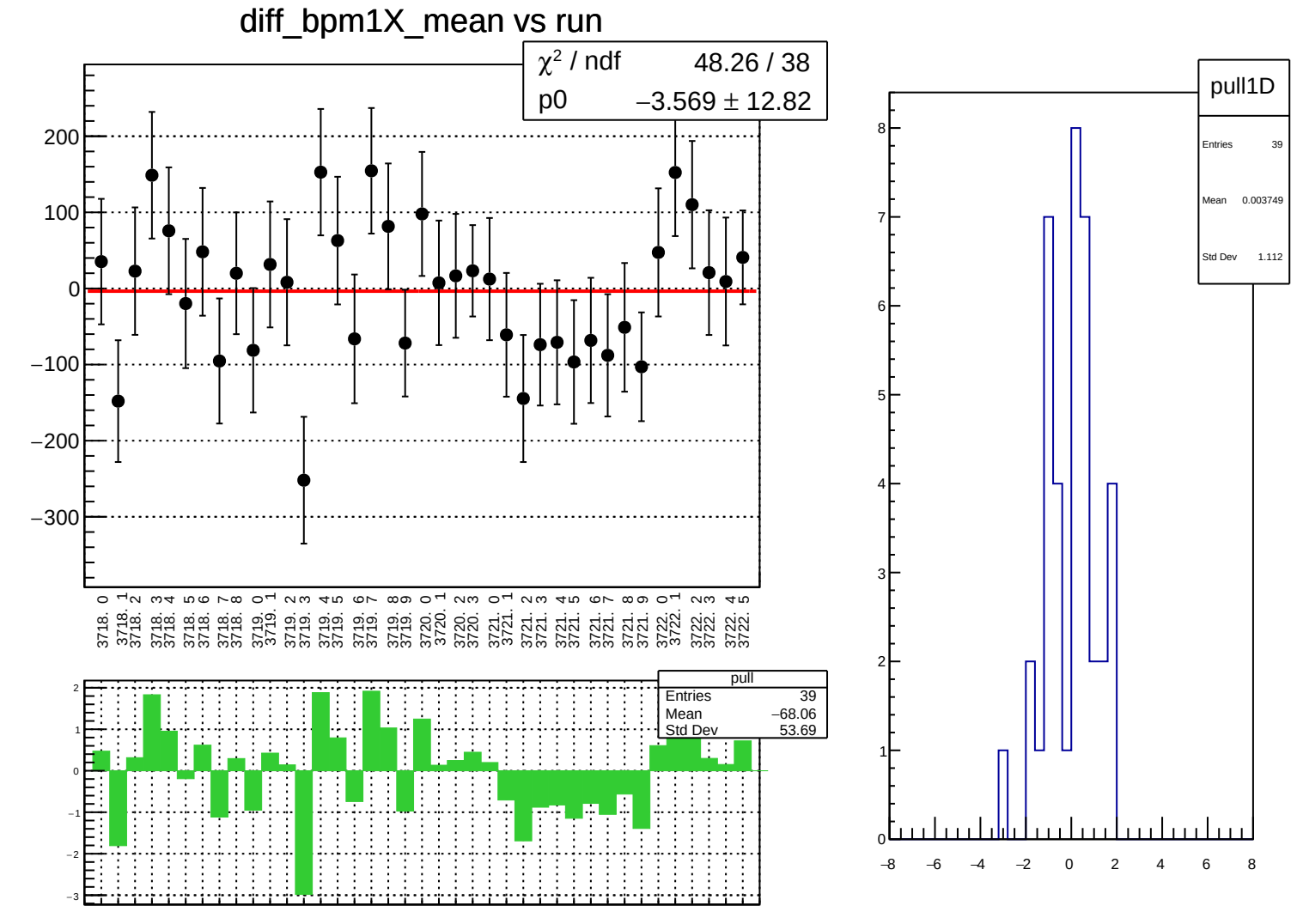

pull1D
Entries 39
Mean −0.004902
Std Dev 1.112

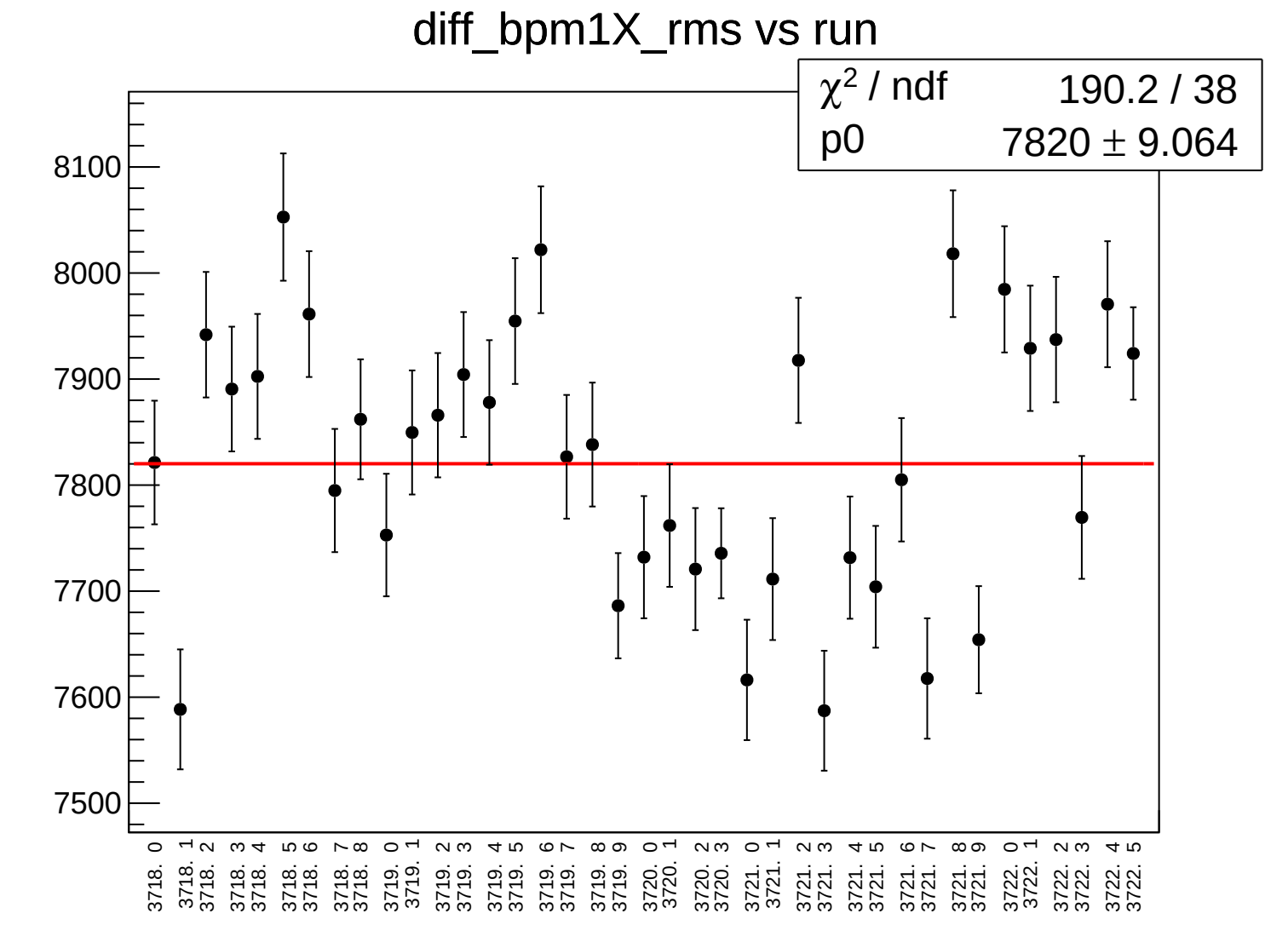

diff_bpm4ecX_rms vs run
χ² / ndf 283.6 / 38
p0 1.066e+04 ± 12.36
11200
11000
10800
10600
10400
10200
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

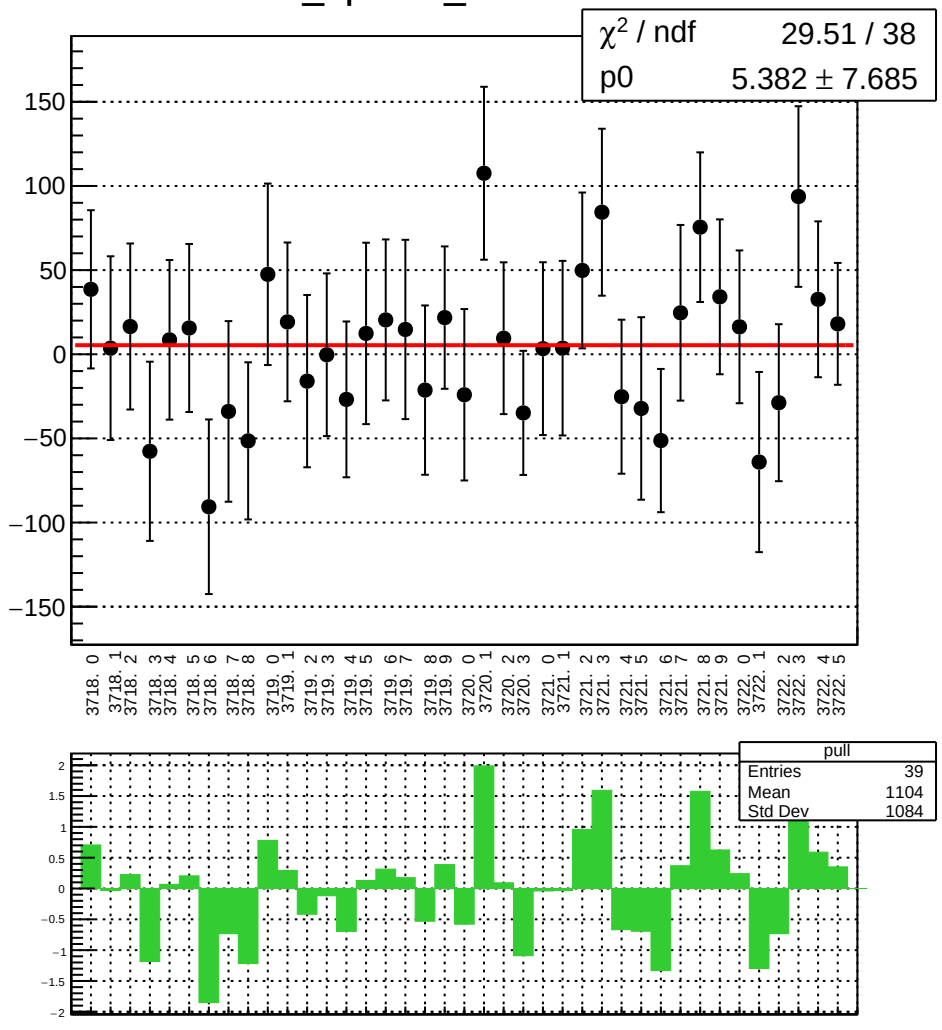

diff_bpm4ecY_mean vs run
χ² / ndf 24.37 / 38
p0 5.542 ± 7.653
150
100
50
0
−50
−100
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 165.2
Std Dev 144.3
2
1.5
1
0.5
0
−0.5
−1
−1.5

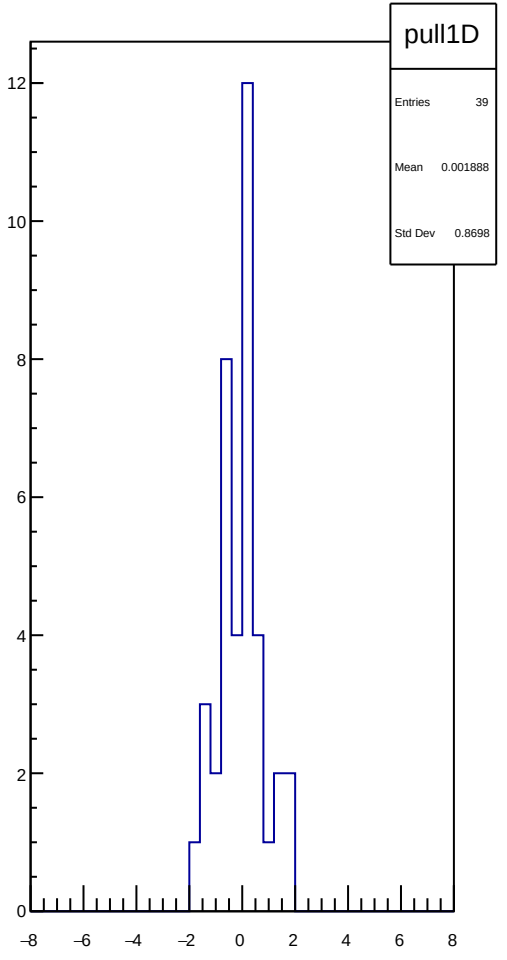

pull1D
Entries 39
Mean 0.007535
Std Dev 0.7905
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

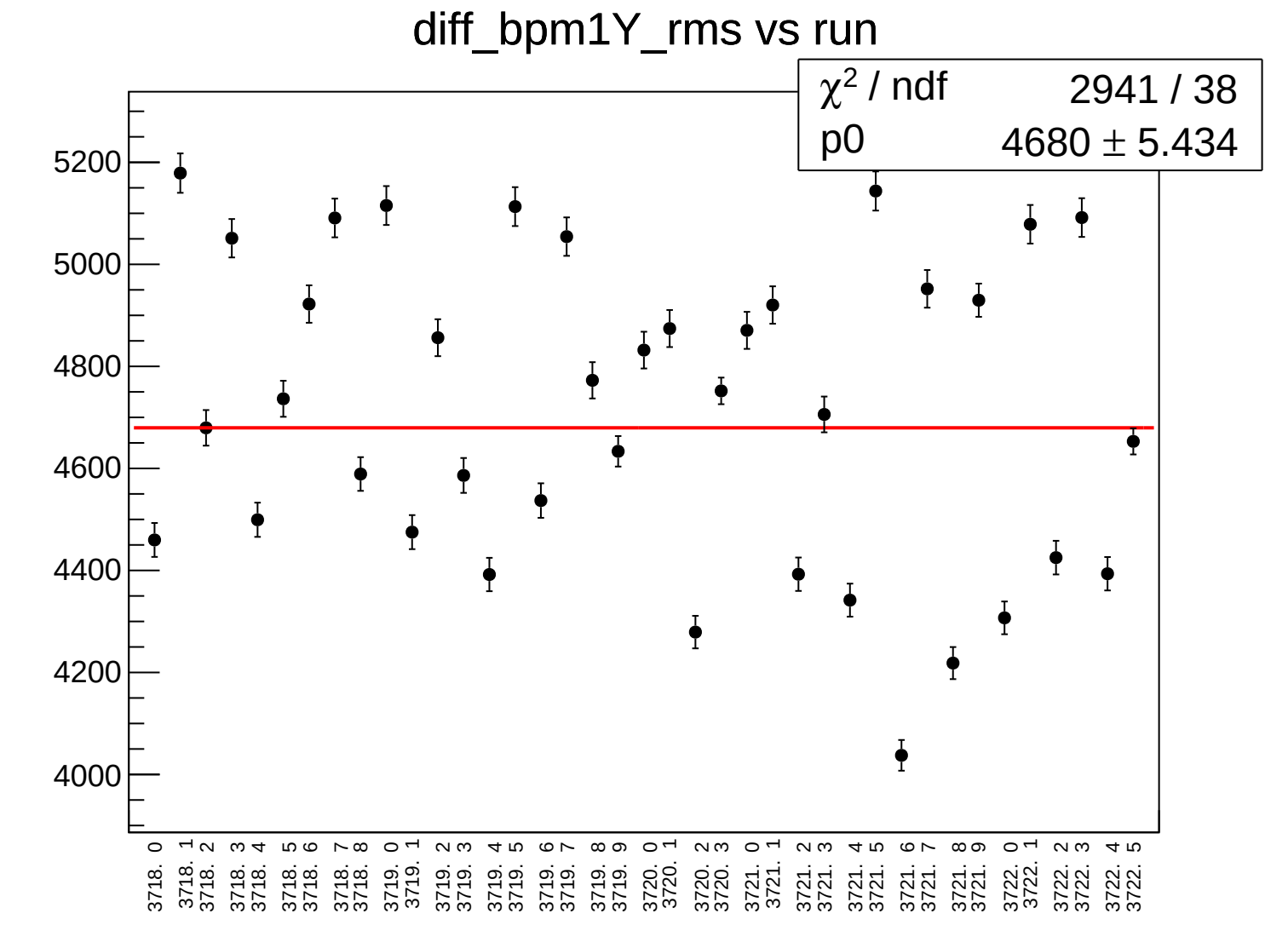

diff_bpm4ecY_rms vs run
χ² / ndf 1589 / 38
p0 4665 ± 5.412
5000
4800
4600
4400
4200
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

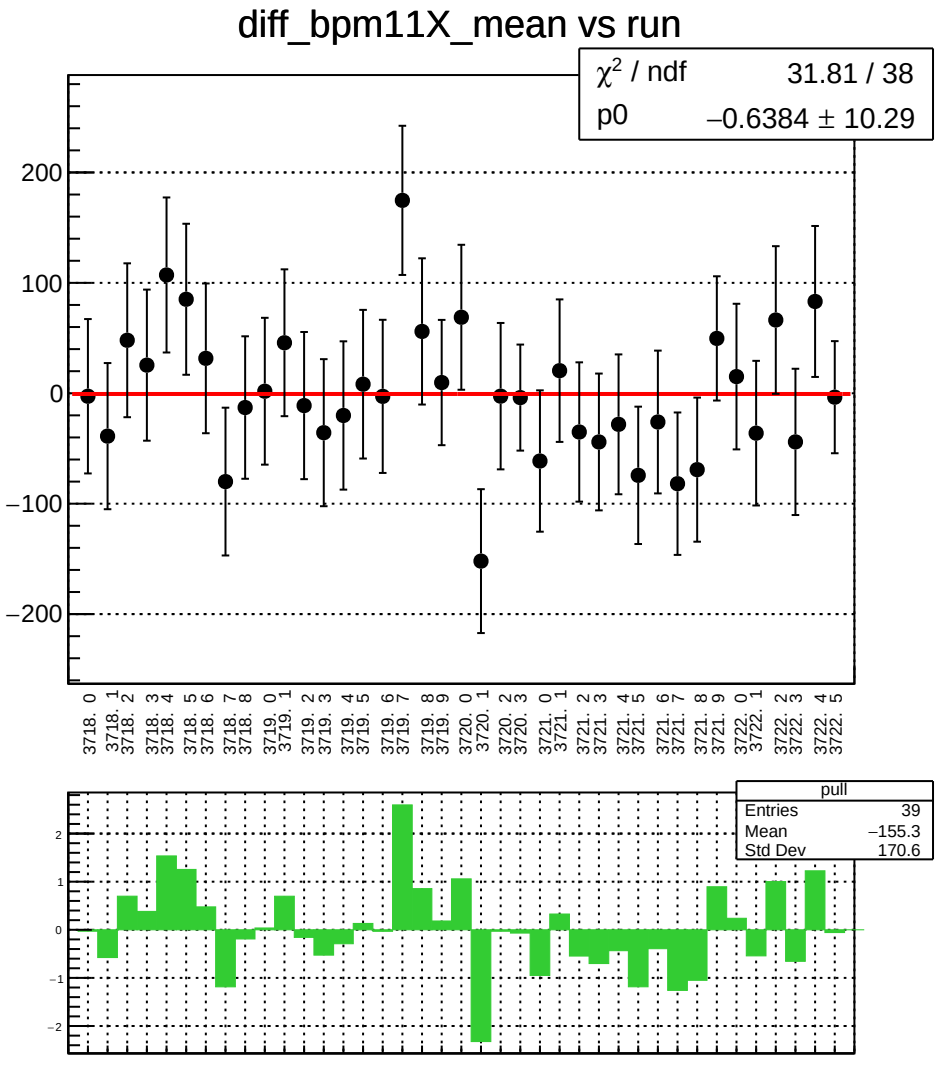

diff_bpm1X_mean vs run
χ² / ndf 48.26 / 38
p0 −3.569 ± 12.82
200
100
0
−100
−200
−300
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −68.06
Std Dev 53.69
2
1
0
−1
−2
−3
pull1D
Entries 39
Mean 0.003749
Std Dev 1.112
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

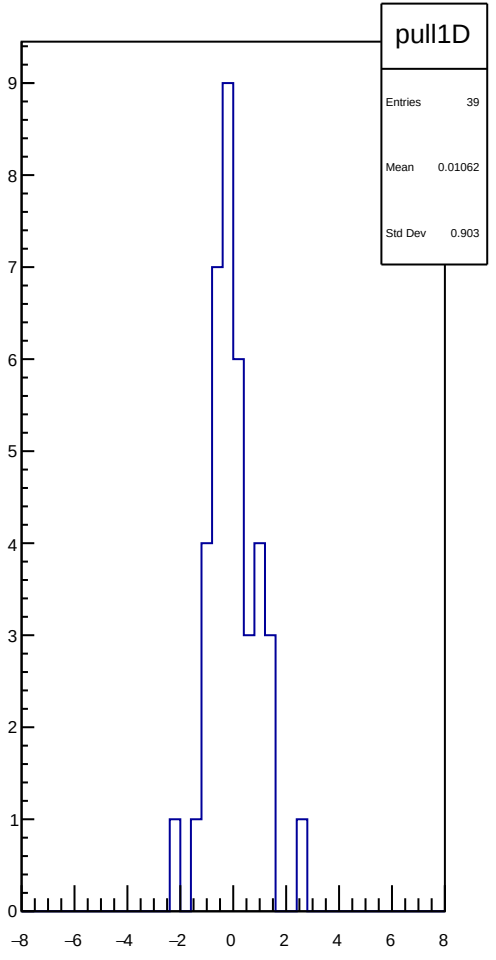

diff_bpm1X_rms vs run
χ² / ndf 190.2 / 38
p0 7820 ± 9.064
8100
8000
7900
7800
7700
7600
7500
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

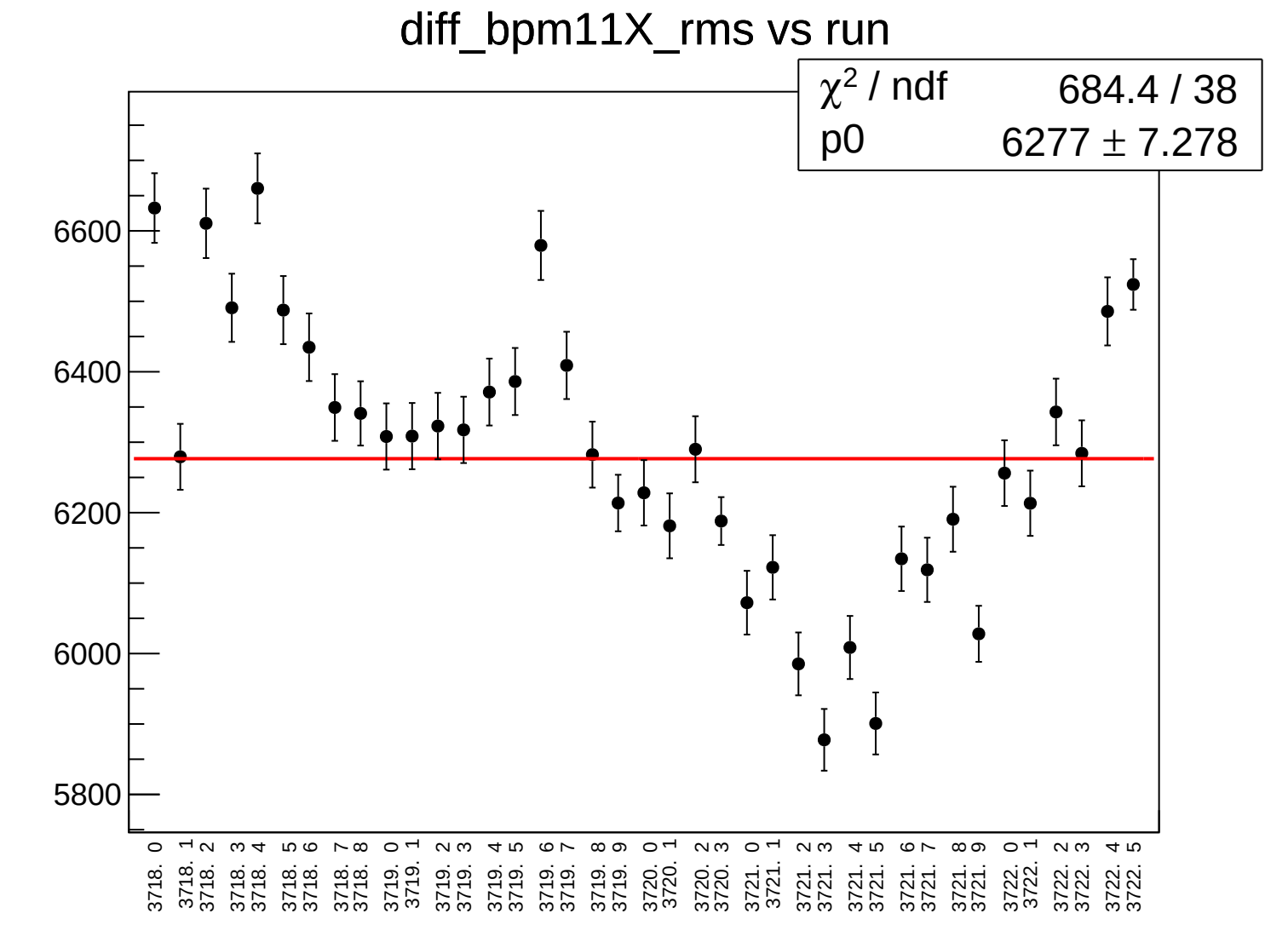

diff_bpm1Y_mean vs run
χ² / ndf 29.51 / 38
p0 5.382 ± 7.685
150
100
50
0
−50
−100
−150
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 1104
Std Dev 1084
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

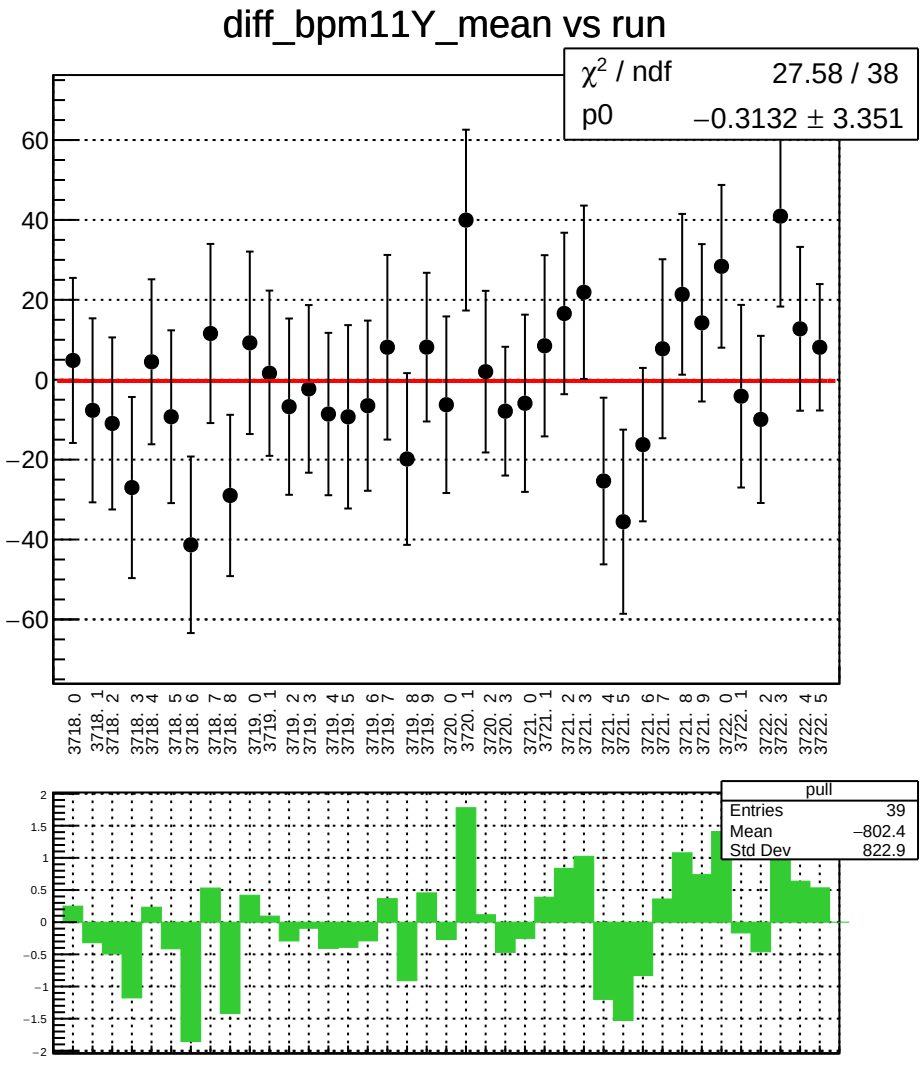

pull1D
Entries 39
Mean 0.001888
Std Dev 0.8698
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

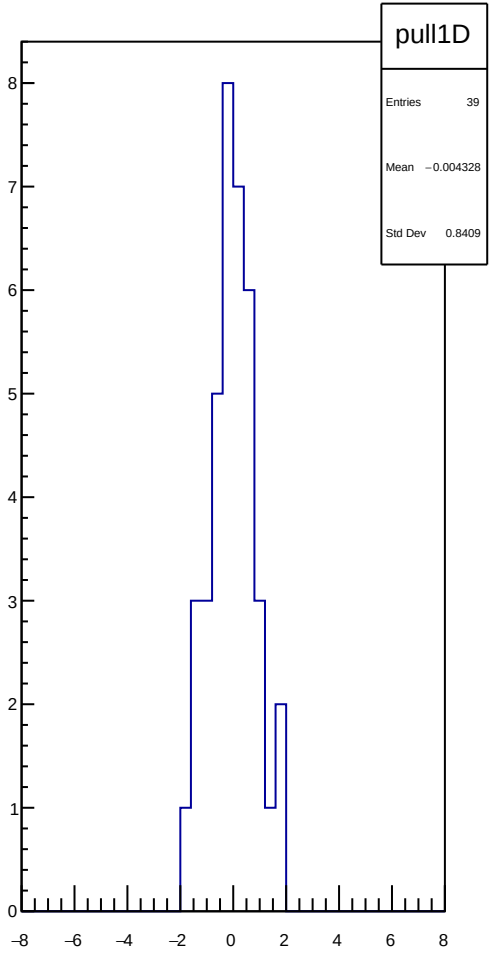

diff_bpm1Y_rms vs run
χ² / ndf 2941 / 38
p0 4680 ± 5.434
5200
5000
4800
4600
4400
4200
4000
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

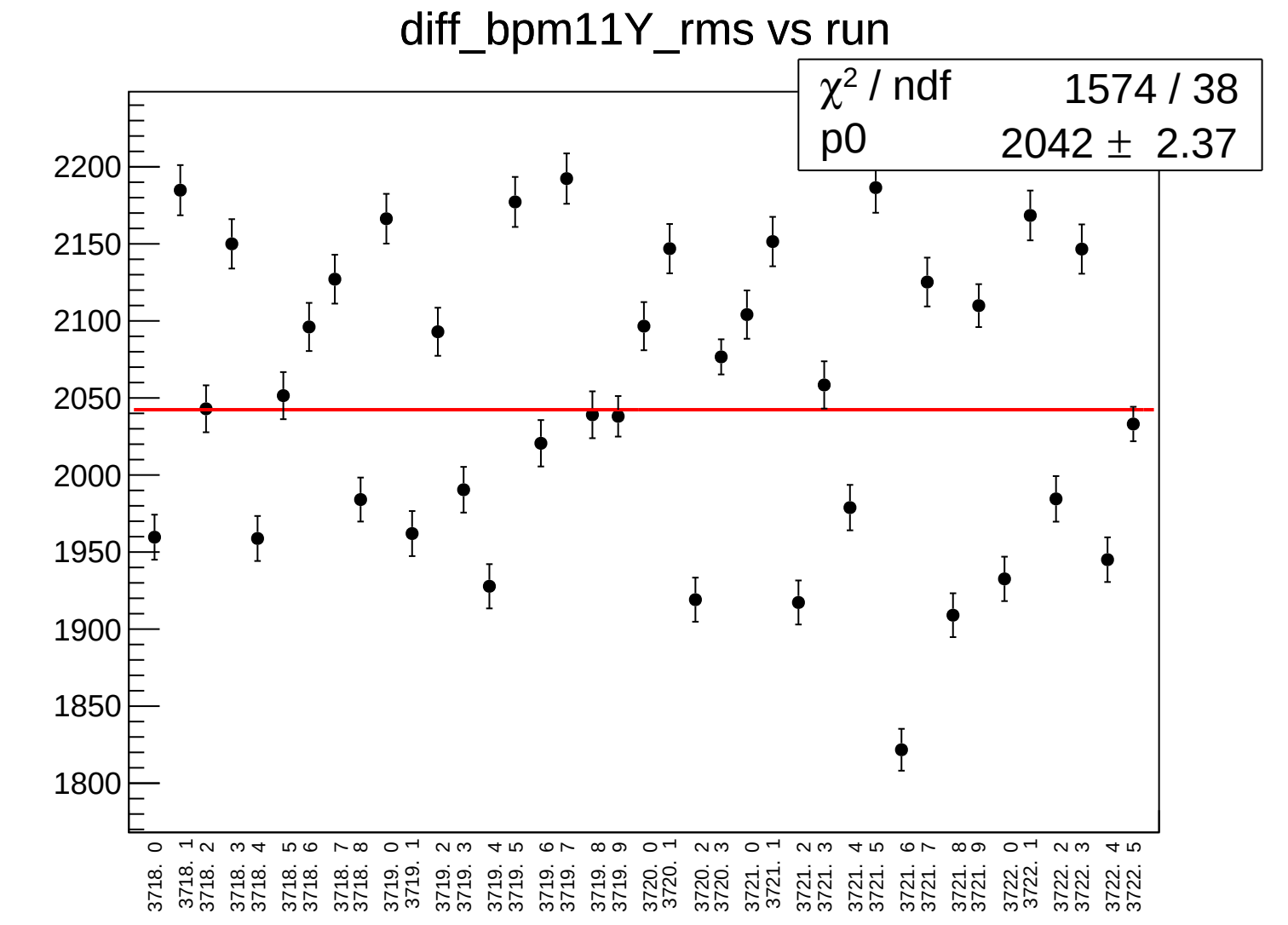

diff_bpm11X_mean vs run
χ² / ndf 31.81 / 38
p0 −0.6384 ± 10.29
200
100
0
−100
−200
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −155.3
Std Dev 170.6
2
1
0
−1
−2

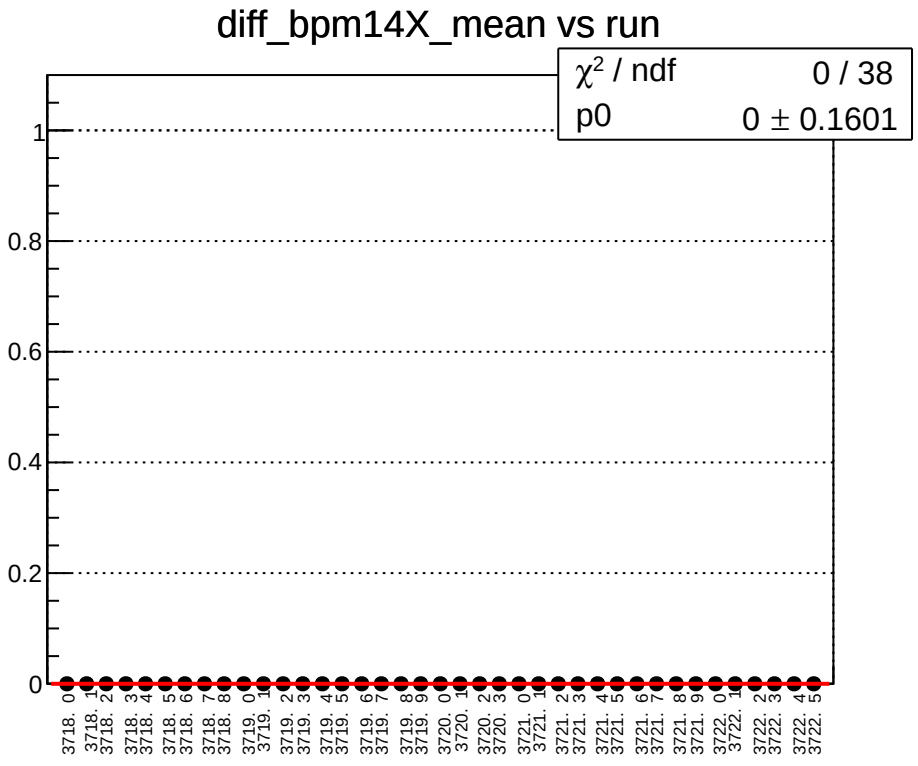

pull1D
Entries 39
Mean 0.01062
Std Dev 0.903
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

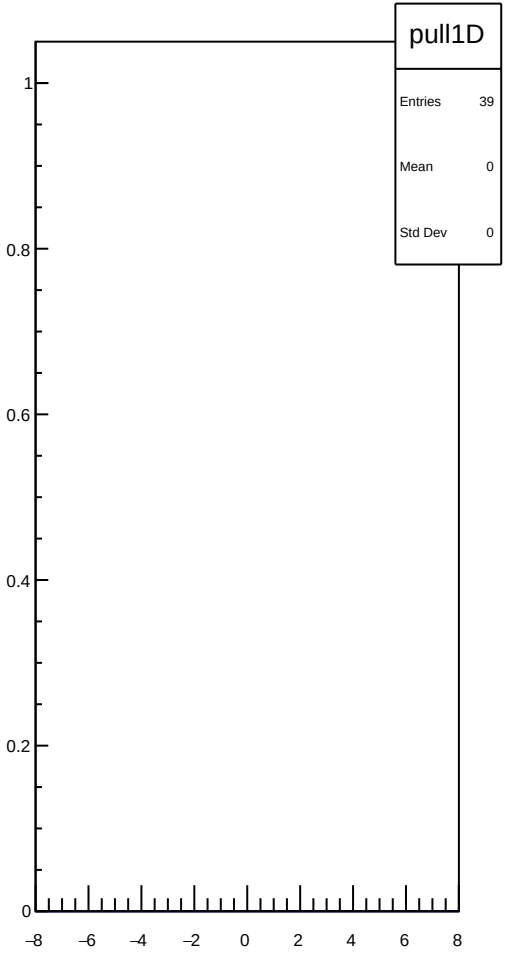

diff_bpm11X_rms vs run
χ² / ndf 684.4 / 38
p0 6277 ± 7.278
6600
6400
6200
6000
5800
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

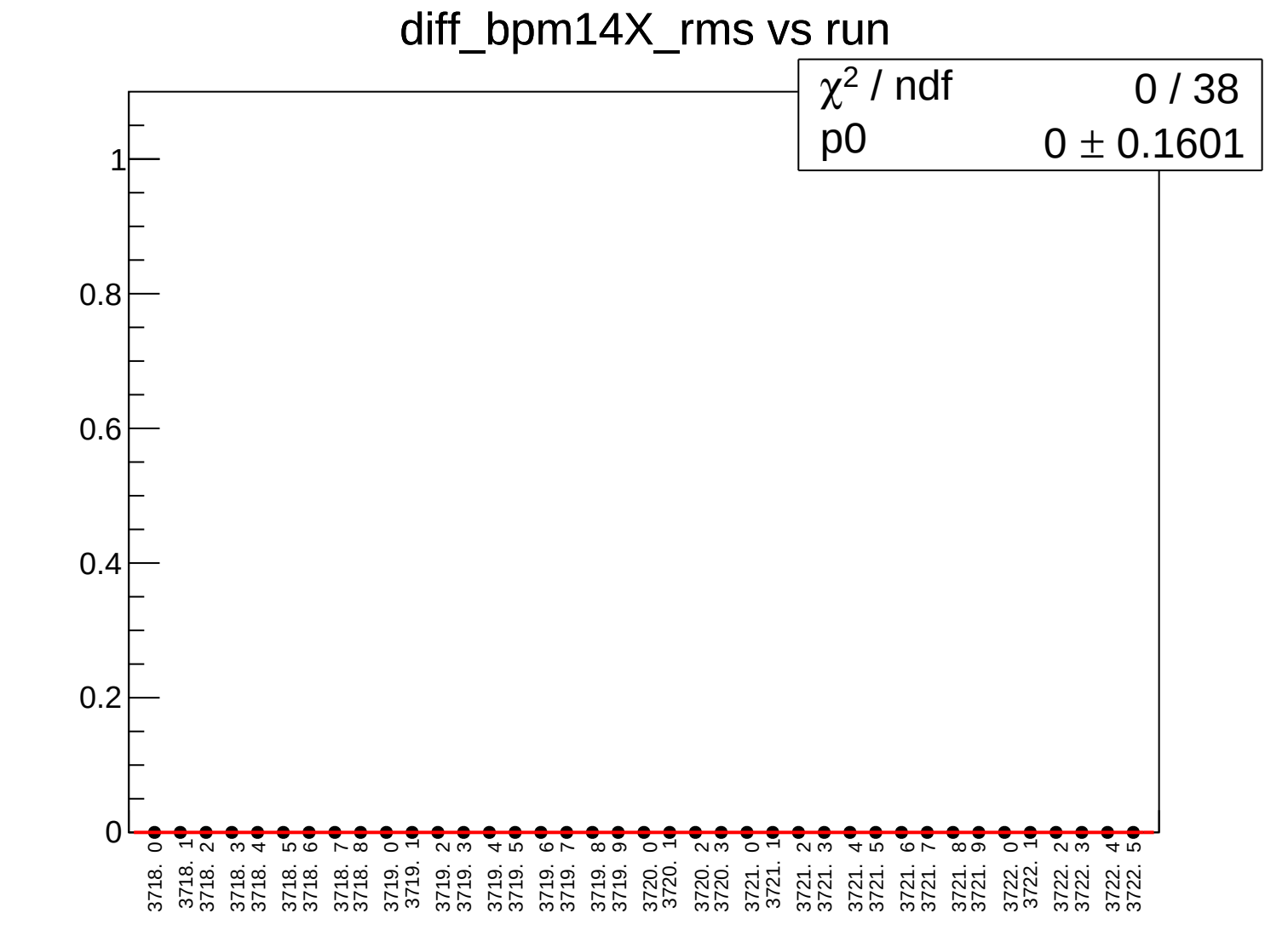

diff_bpm11Y_mean vs run
χ² / ndf 27.58 / 38
p0 −0.3132 ± 3.351
pull
Entries 39
Mean −802.4
Std Dev 822.9

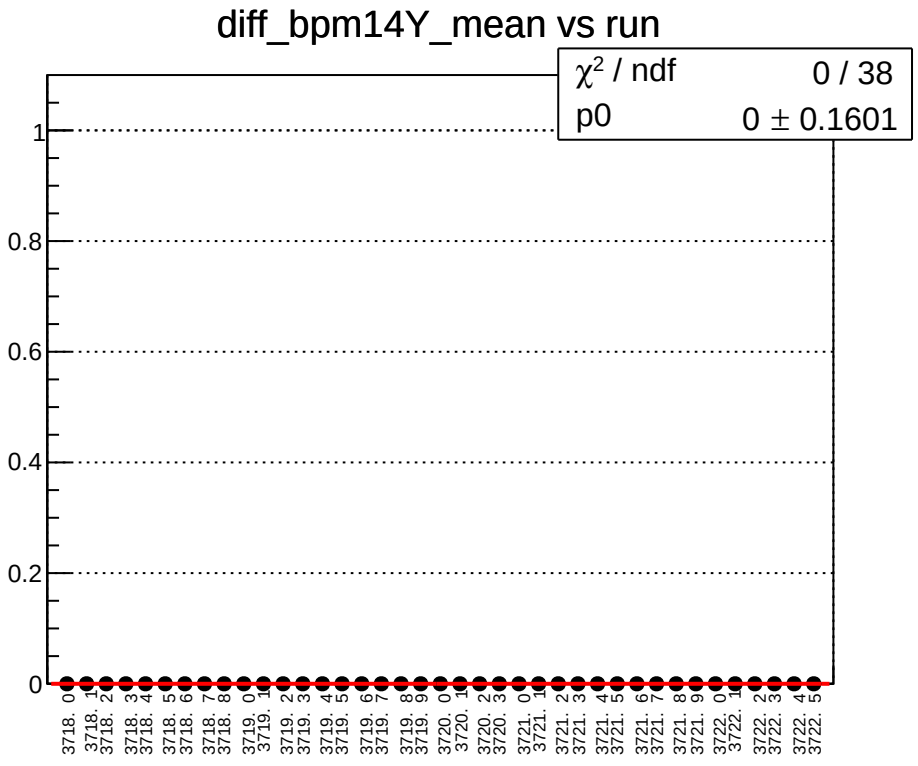

pull1D
Entries 39
Mean −0.004328
Std Dev 0.8409

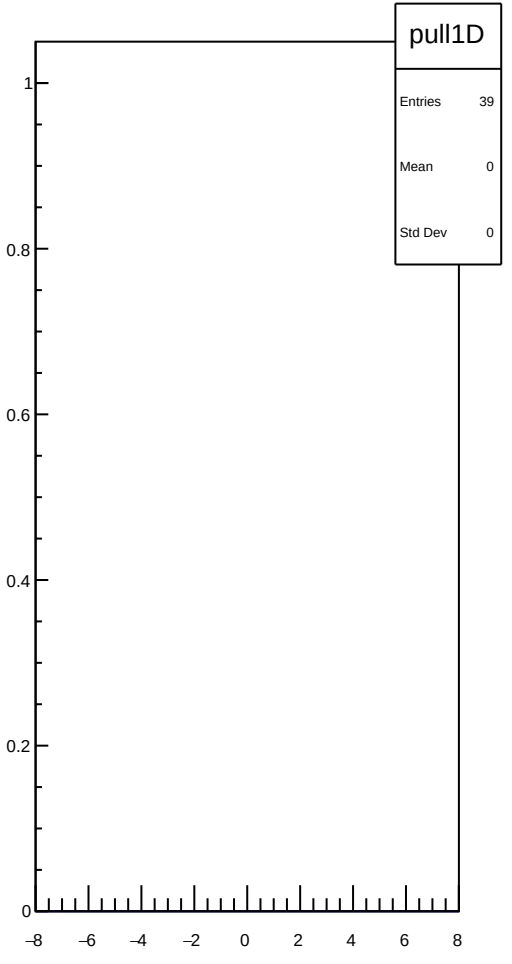

diff_bpm11Y_rms vs run
χ² / ndf 1574 / 38
p0 2042 ± 2.37
2200
2150
2100
2050
2000
1950
1900
1850
1800
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

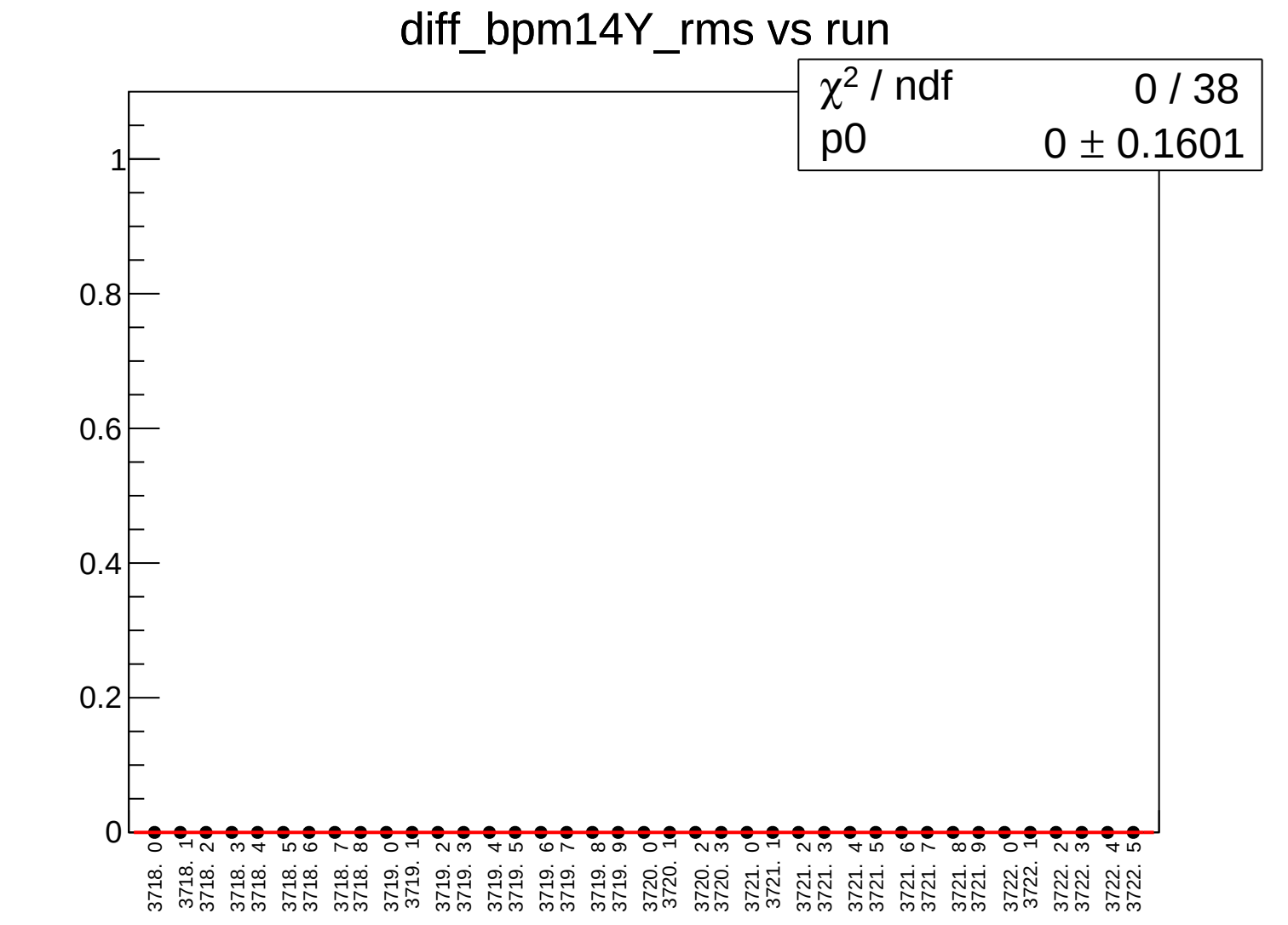

diff_bpm14X_mean vs run
χ² / ndf 0 / 38
p0 0 ± 0.1601
1
0.8
0.6
0.4
0.2
0
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

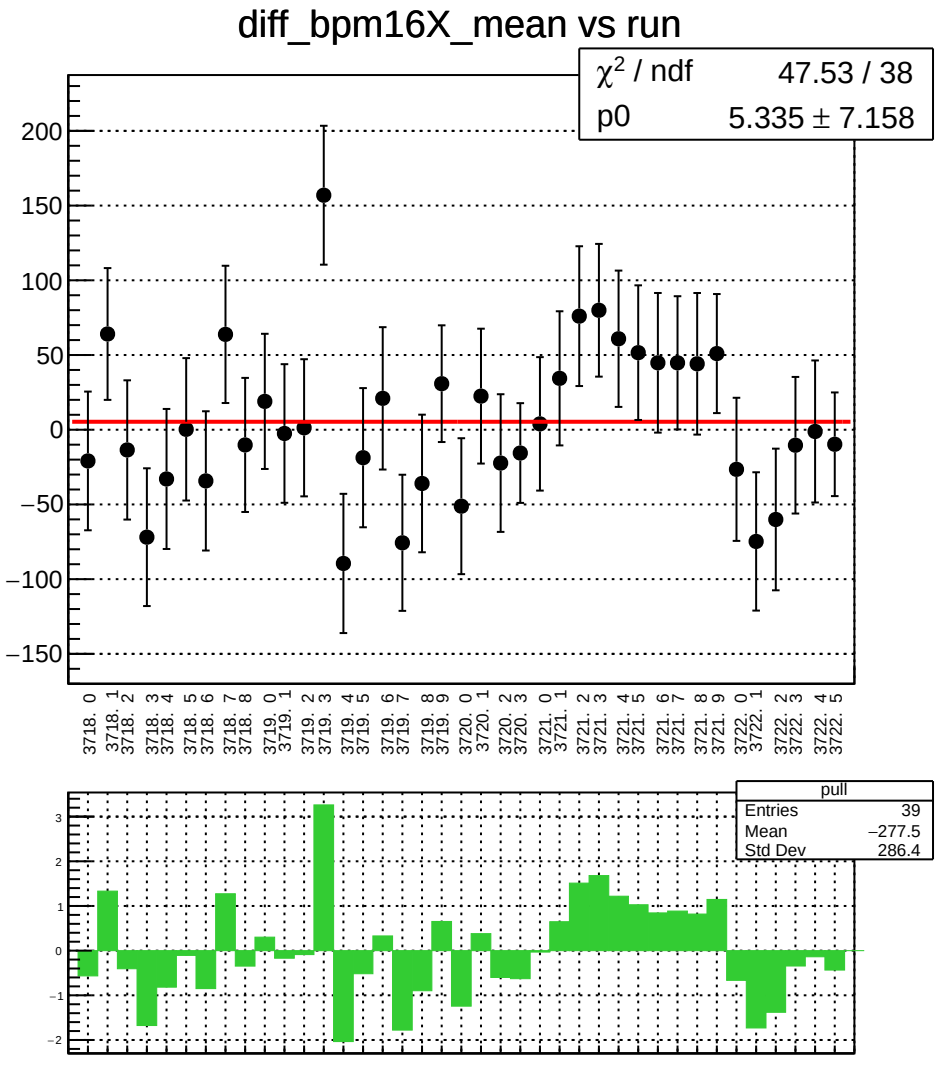

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

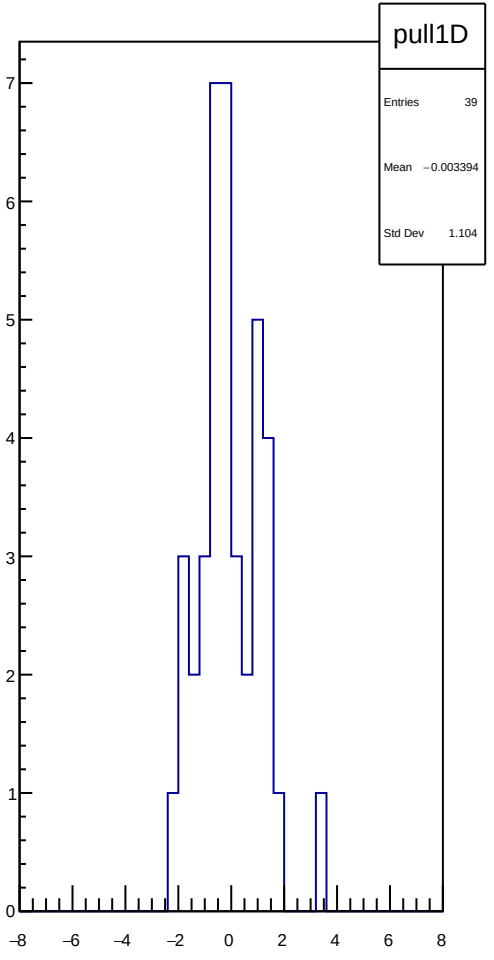

diff_bpm14X_rms vs run
χ^2 / ndf 0 / 38
p0 0 ± 0.1601
1
0.8
0.6
0.4
0.2
0
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

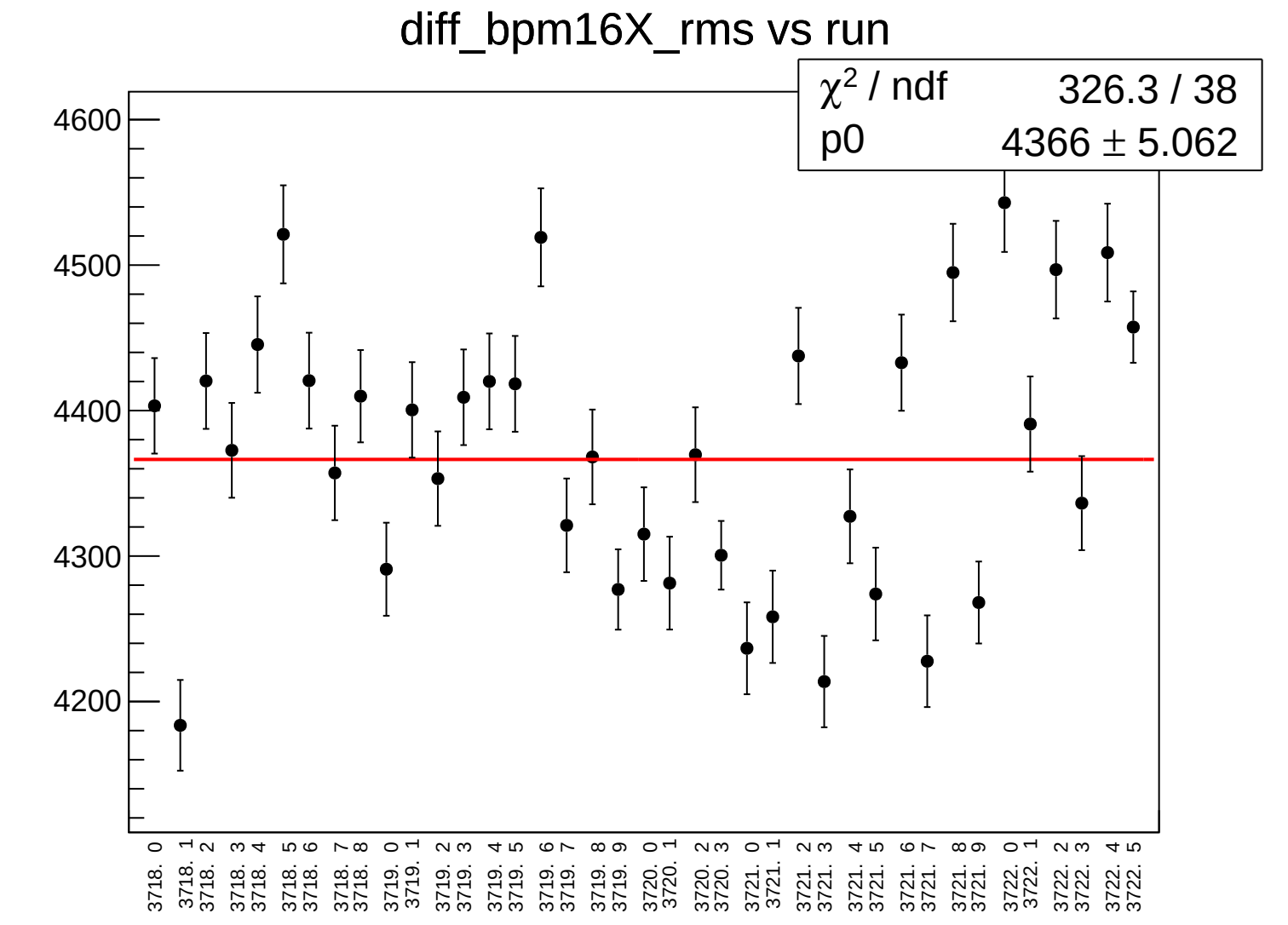

diff_bpm14Y_mean vs run
χ² / ndf 0 / 38
p0 0 ± 0.1601
1
0.8
0.6
0.4
0.2
0
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

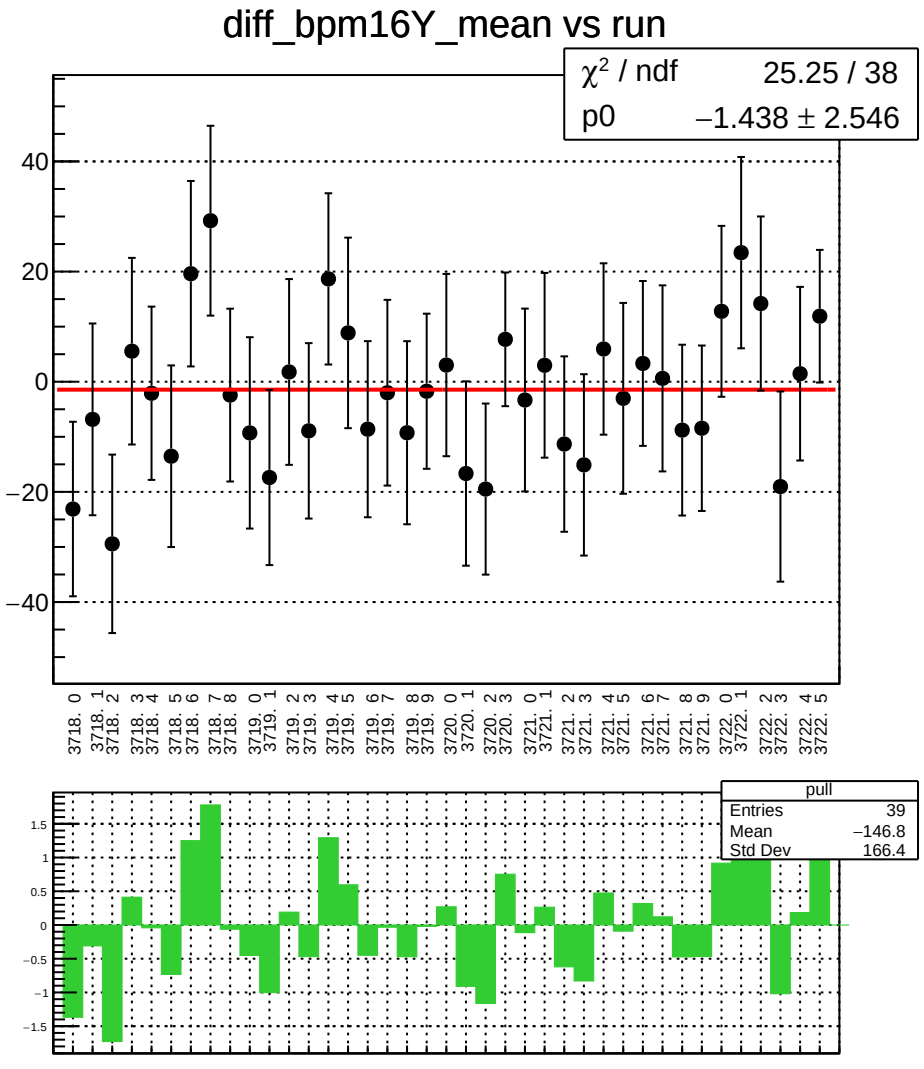

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

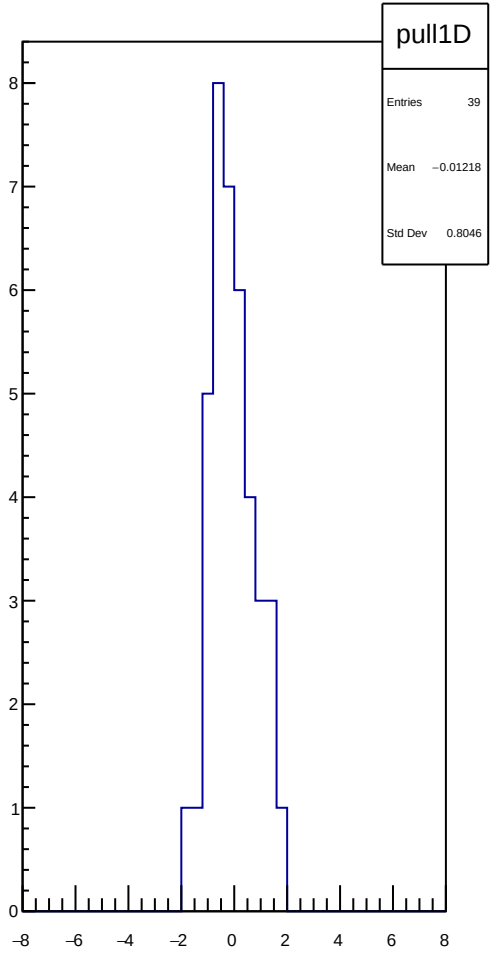

diff_bpm14Y_rms vs run
χ² / ndf 0 / 38
p0 0 ± 0.1601
1
0.8
0.6
0.4
0.2
0
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

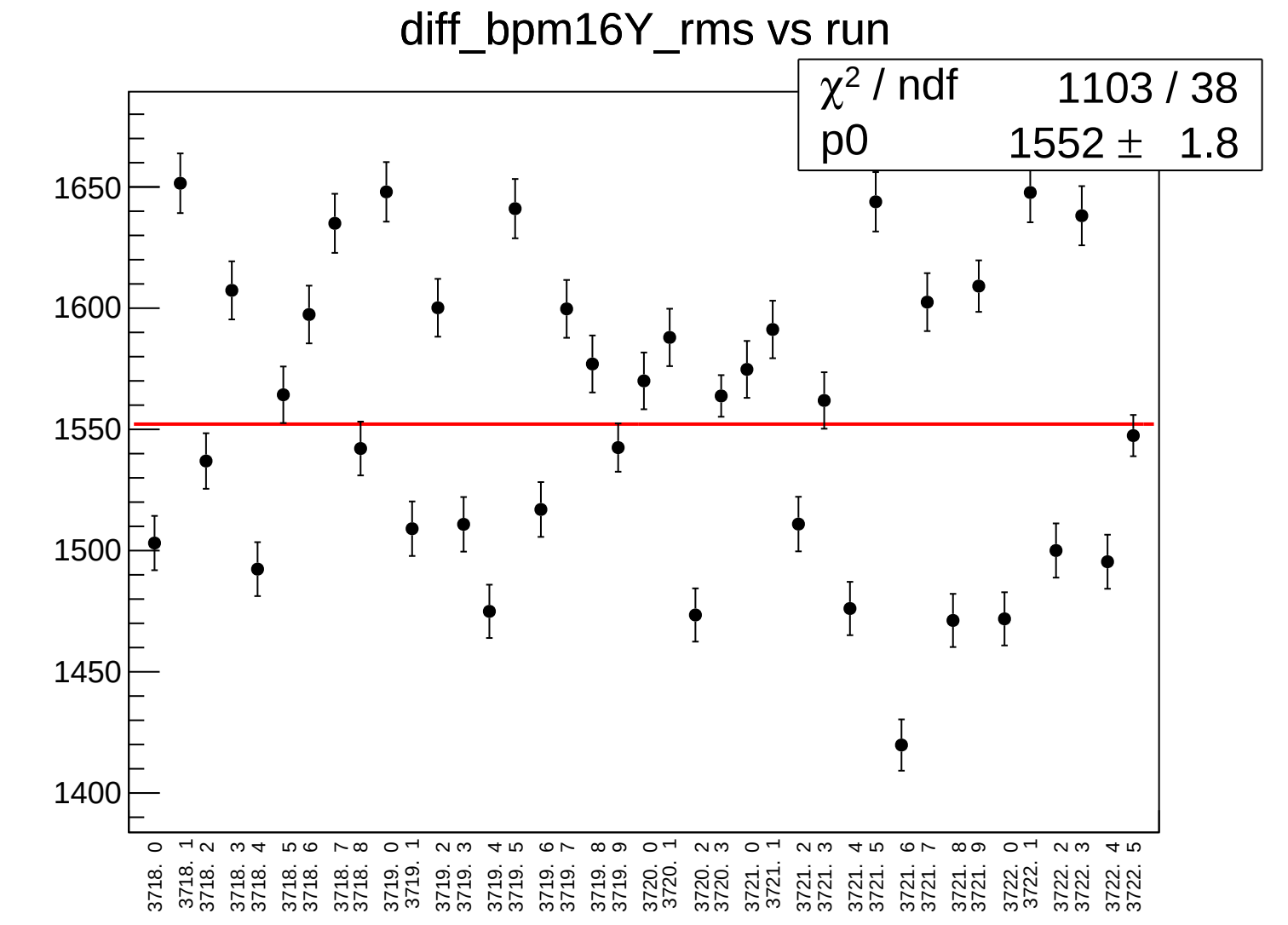

diff_bpm16X_mean vs run
χ² / ndf 47.53 / 38
p0 5.335 ± 7.158
200
150
100
50
0
−50
−100
−150
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −277.5
Std Dev 286.4
3
2
1
0
−1
−2

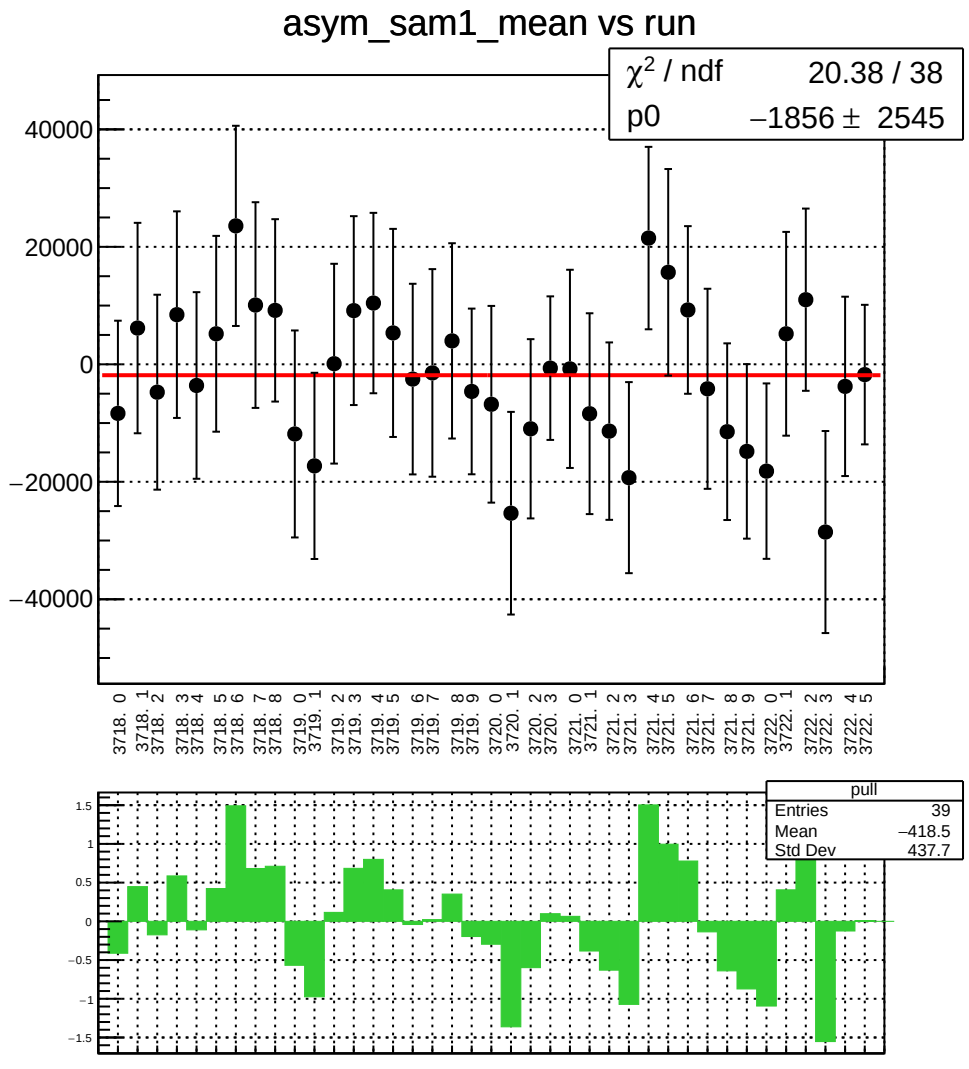

pull1D
Entries 39
Mean −0.003394
Std Dev 1.104
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

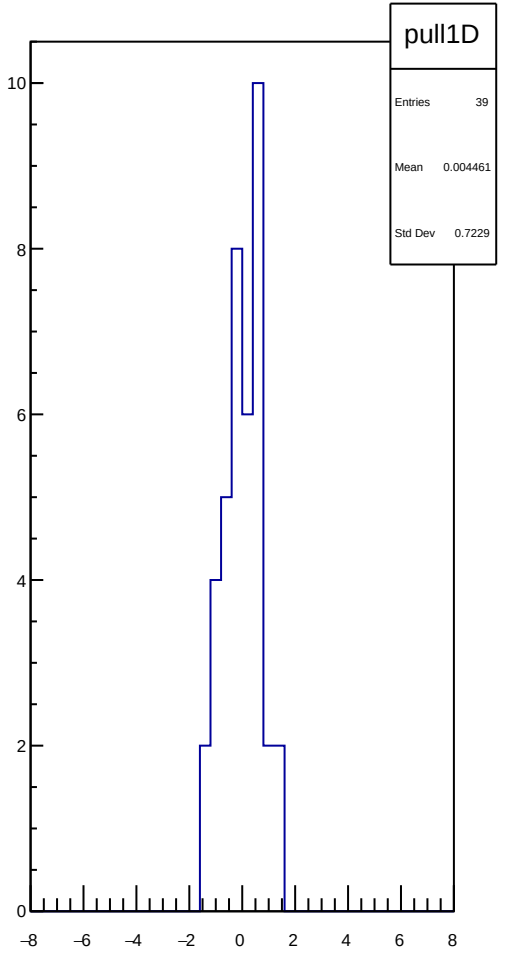

diff_bpm16X_rms vs run
χ² / ndf 326.3 / 38
p0 4366 ± 5.062
4600
4500
4400
4300
4200
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

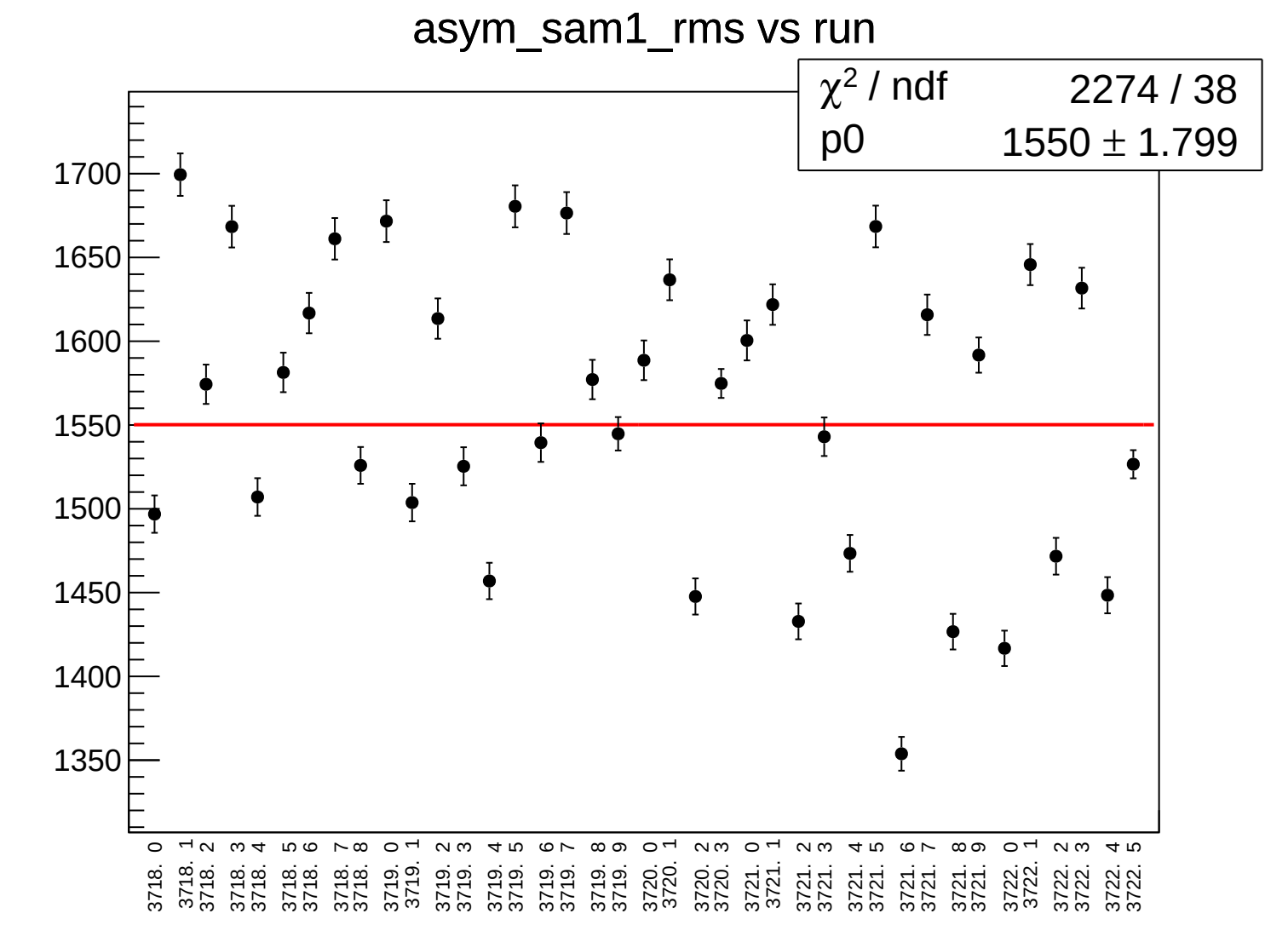

diff_bpm16Y_mean vs run
χ² / ndf 25.25 / 38
p0 −1.438 ± 2.546
40
20
0
−20
−40
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −146.8
Std Dev 166.4
1.5
1
0.5
0
−0.5
−1
−1.5

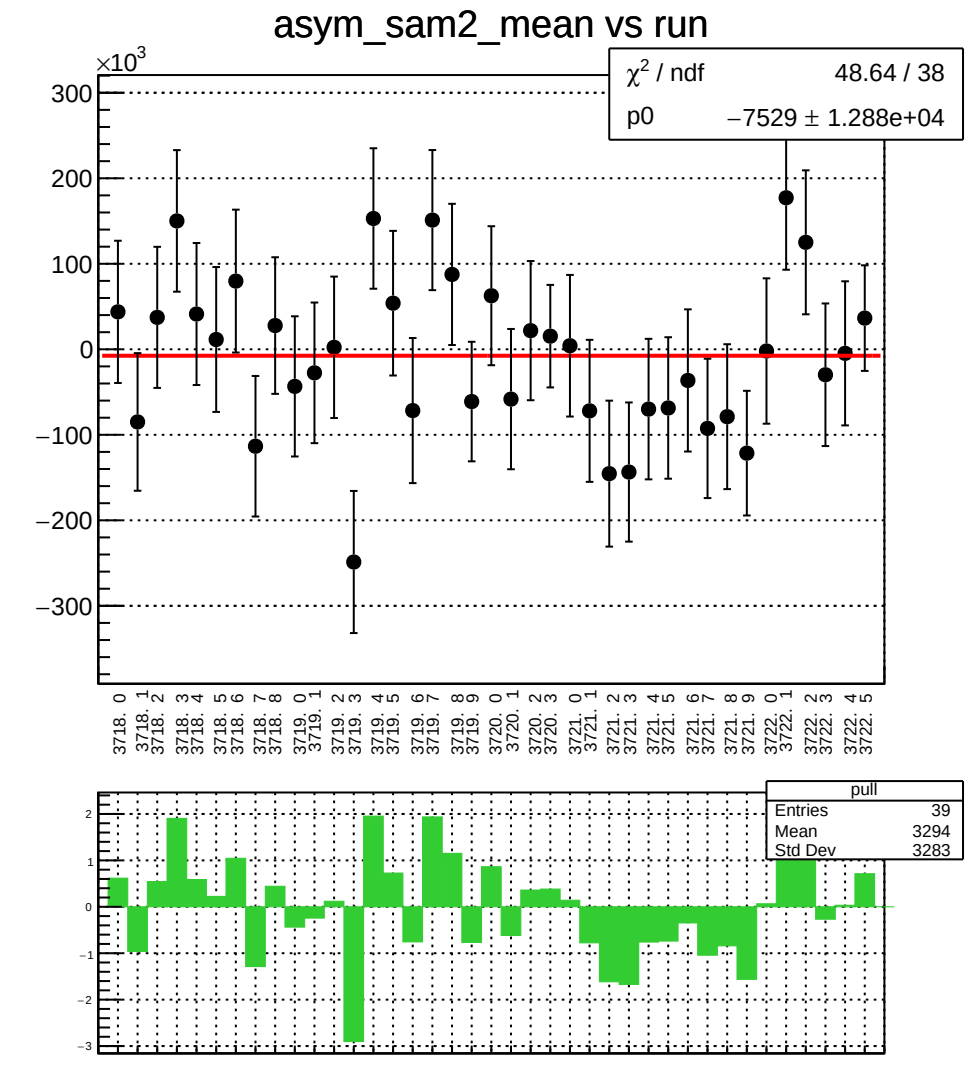

pull1D
Entries 39
Mean −0.01218
Std Dev 0.8046
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

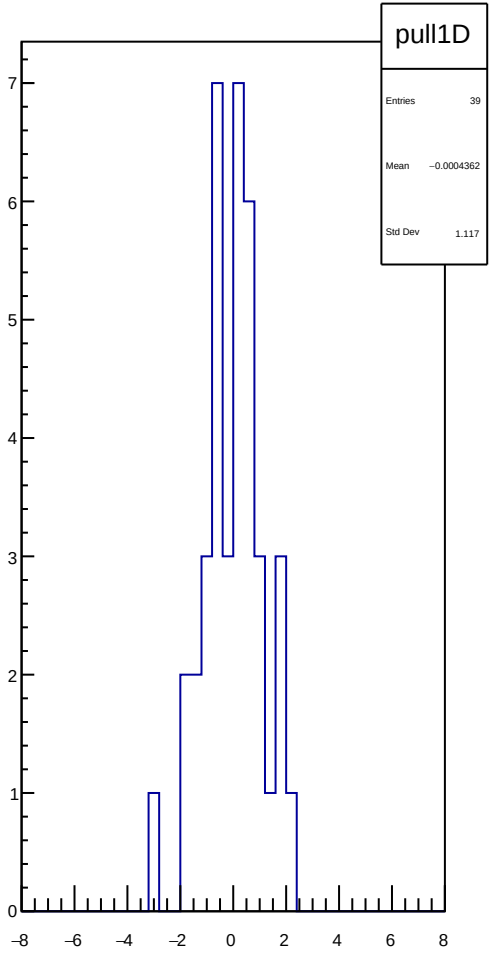

diff_bpm16Y_rms vs run
χ² / ndf 1103 / 38
p0 1552 ± 1.8
1650
1600
1550
1500
1450
1400
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

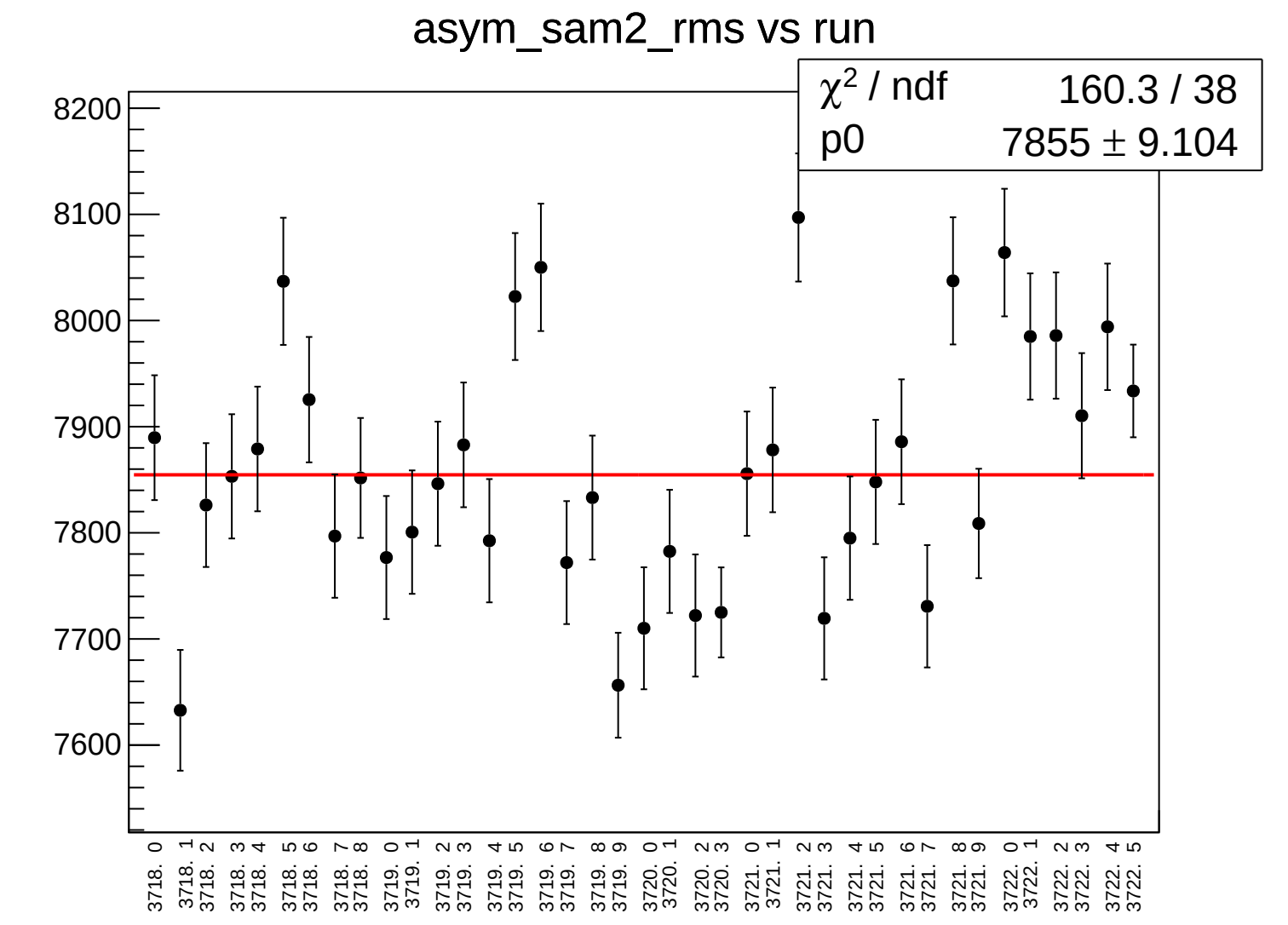

asym_sam1_mean vs run
χ² / ndf 20.38 / 38
p0 −1856 ± 2545
40000
20000
0
−20000
−40000
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −418.5
Std Dev 437.7
1.5
1
0.5
0
−0.5
−1
−1.5

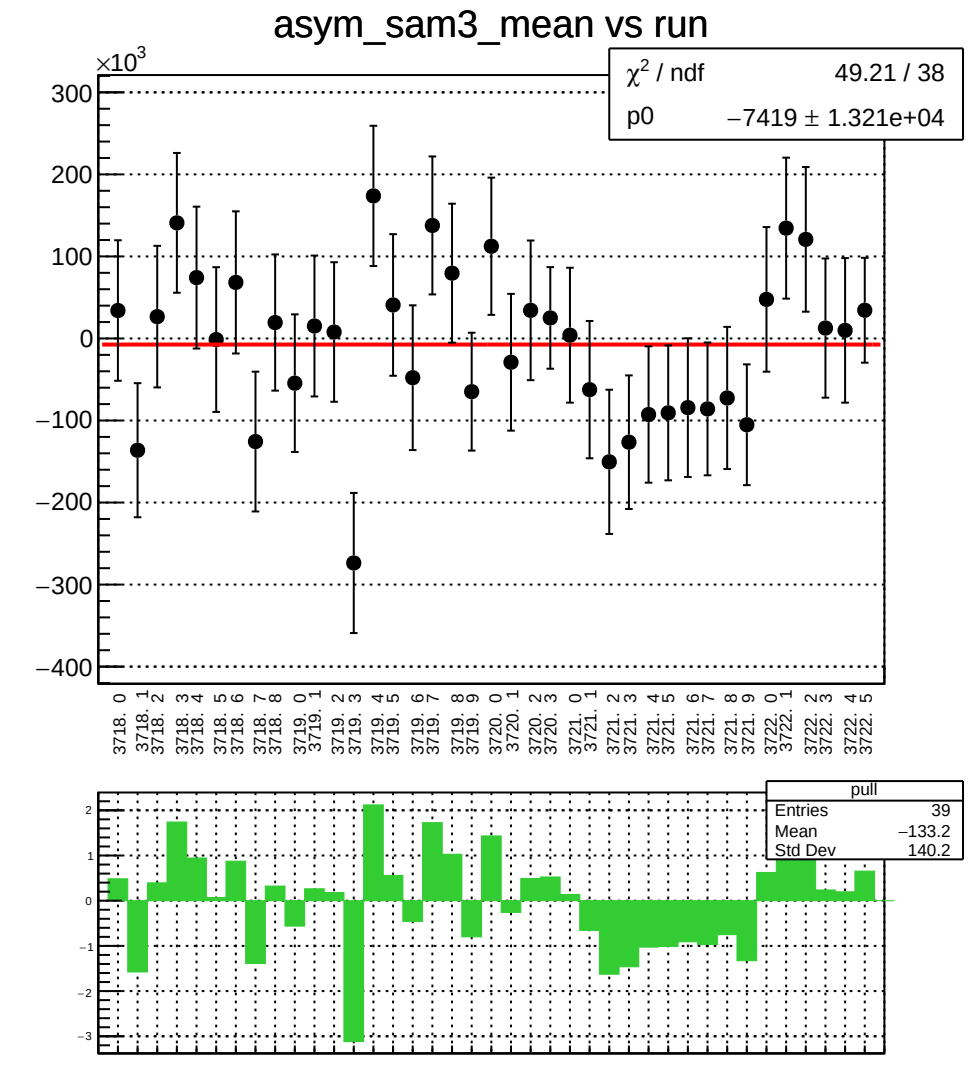

pull1D
Entries 39
Mean 0.004461
Std Dev 0.7229
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

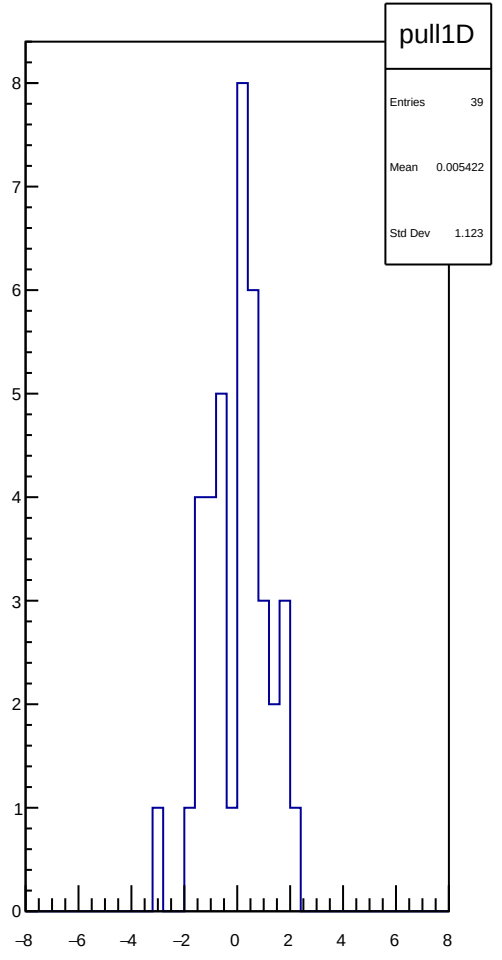

asym_sam1_rms vs run
χ² / ndf 2274 / 38
p0 1550 ± 1.799
1700
1650
1600
1550
1500
1450
1400
1350
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

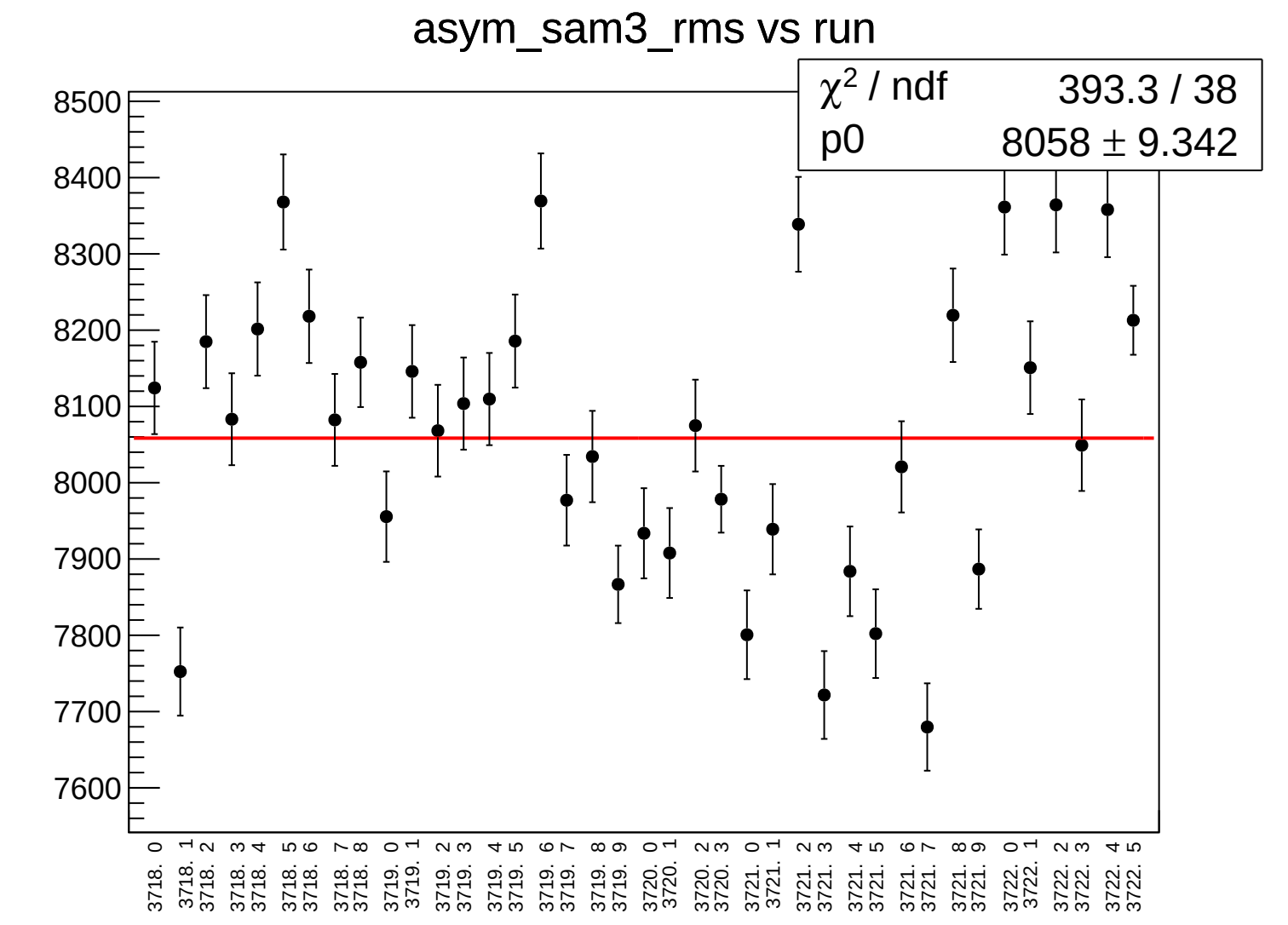

asym_sam2_mean vs run
×10^3
χ² / ndf 48.64 / 38
p0 −7529 ± 1.288e+04
300
200
100
0
−100
−200
−300
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 3294
Std Dev 3283
2
1
0
−1
−2
−3

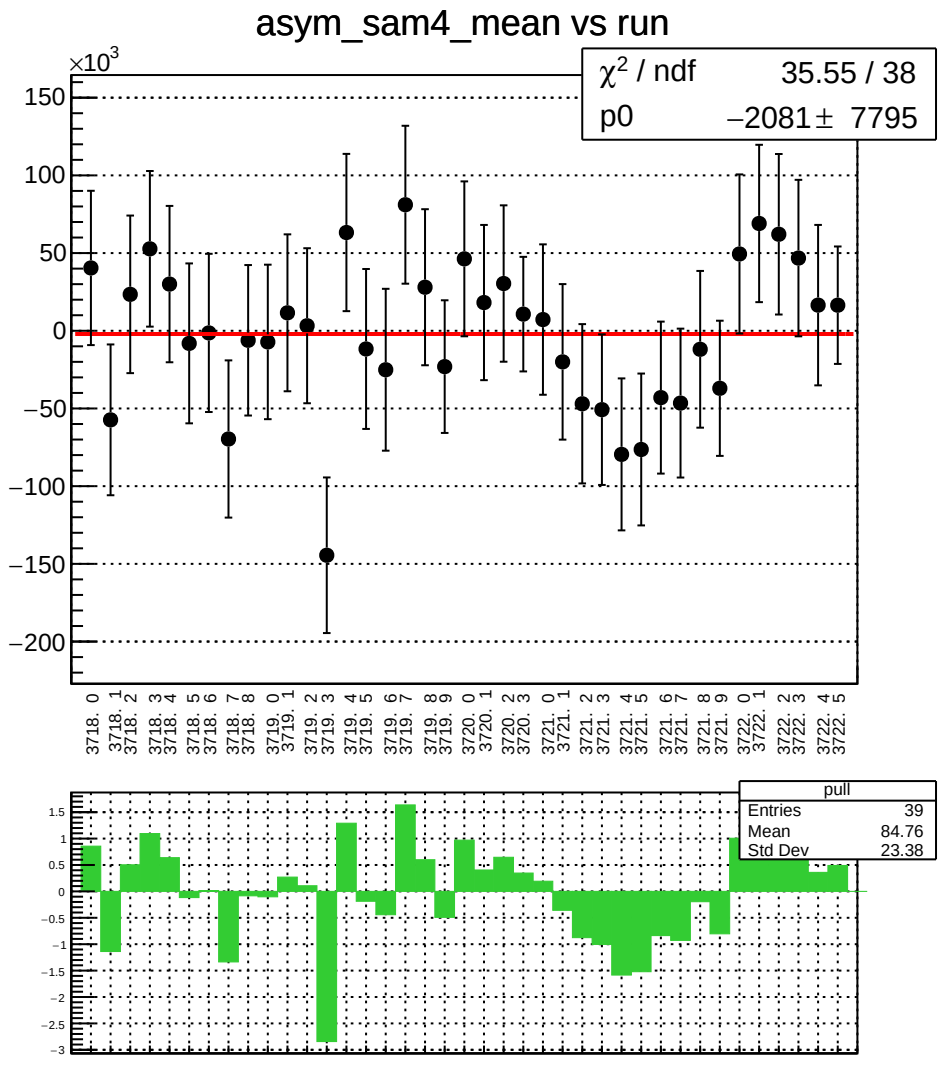

pull1D
Entries 39
Mean −0.0004362
Std Dev 1.117
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

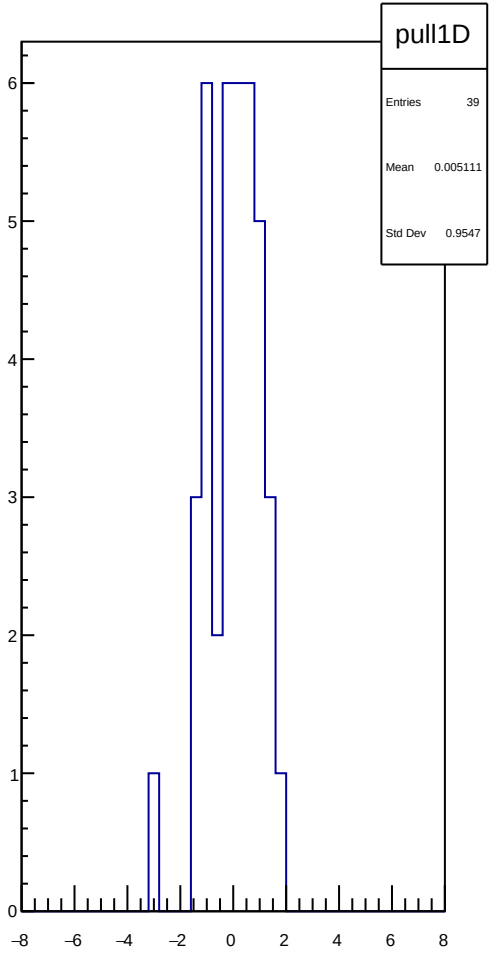

asym_sam2_rms vs run
χ² / ndf 160.3 / 38
p0 7855 ± 9.104
8200
8100
8000
7900
7800
7700
7600
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

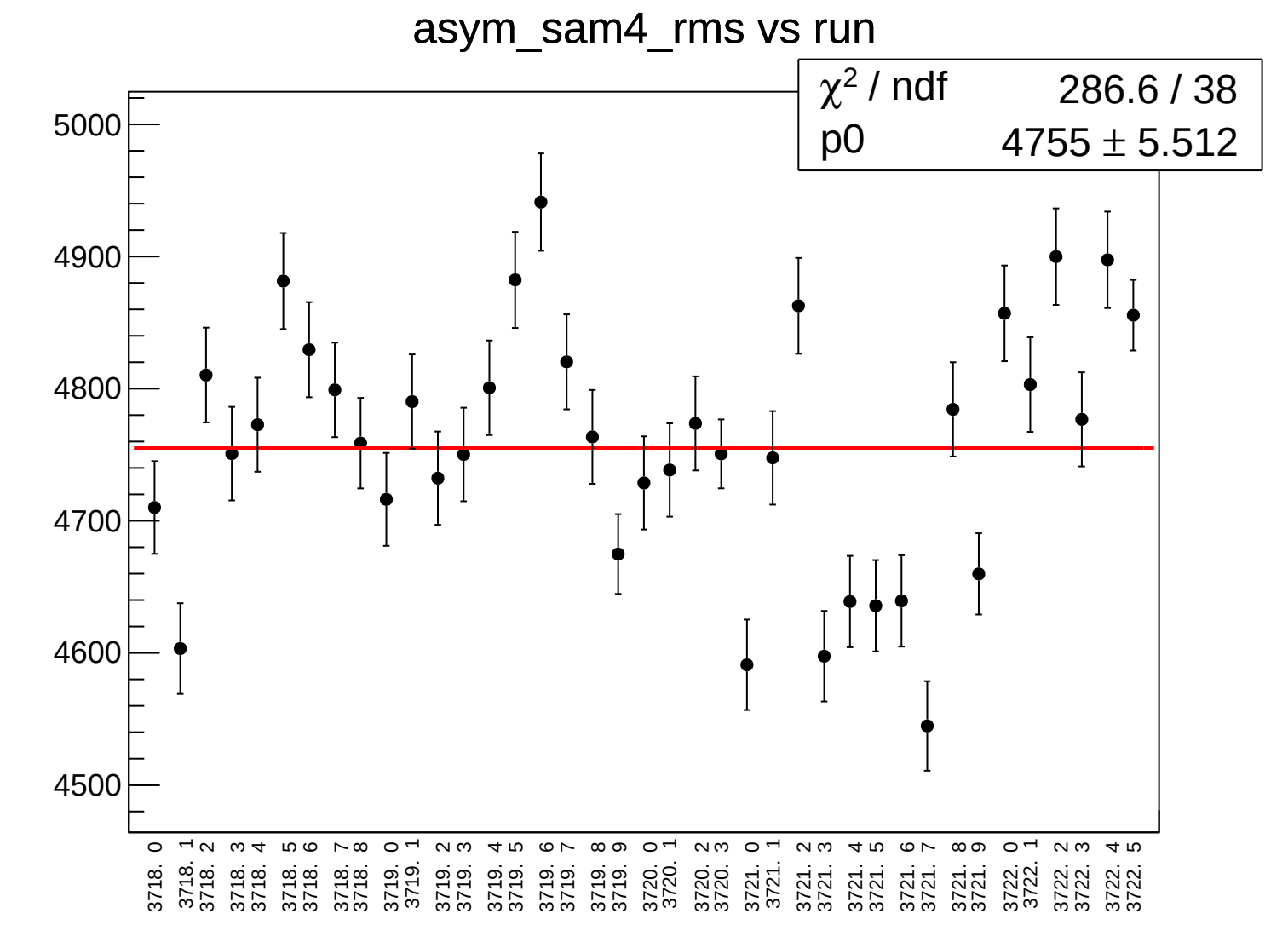

asym_sam3_mean vs run
×10^3
χ² / ndf 49.21 / 38
p0 −7419 ± 1.321e+04
300
200
100
0
−100
−200
−300
−400
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −133.2
Std Dev 140.2
2
1
0
−1
−2
−3

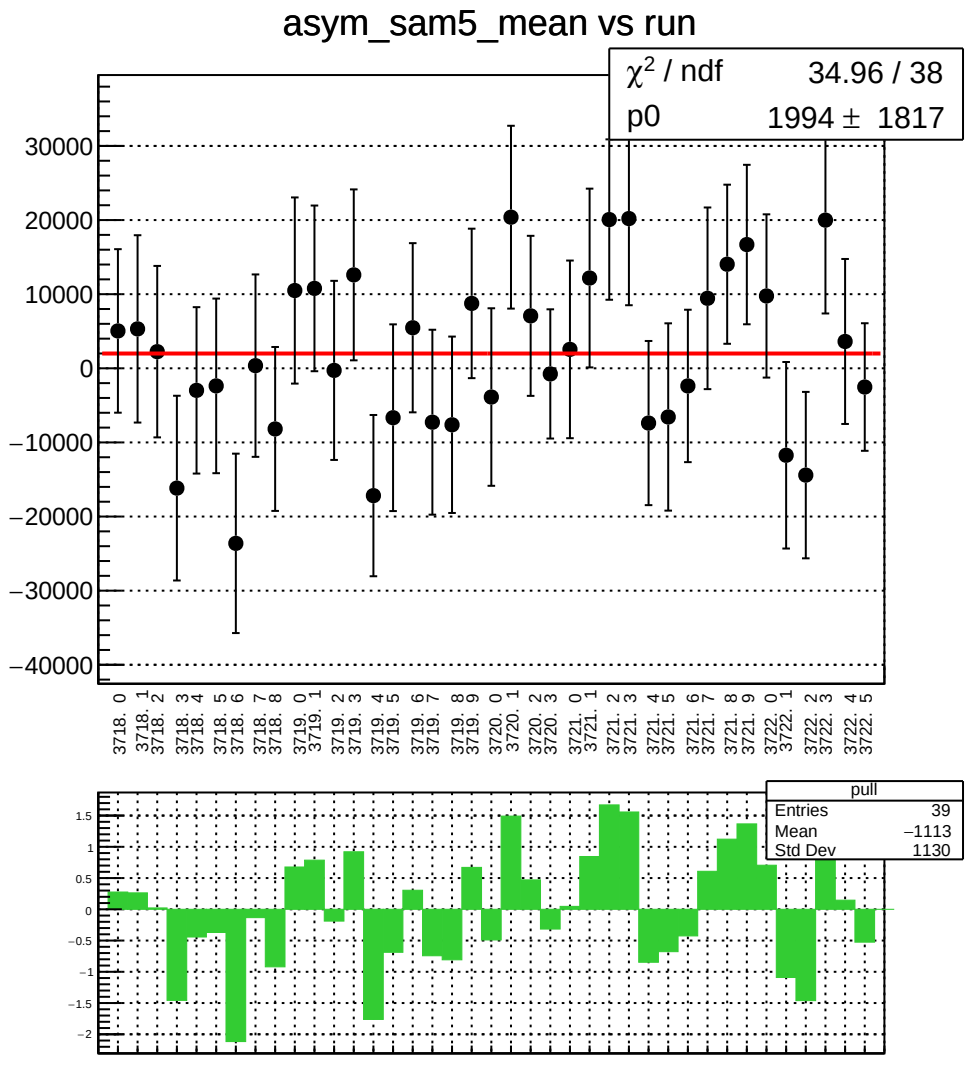

pull1D
Entries 39
Mean 0.005422
Std Dev 1.123
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

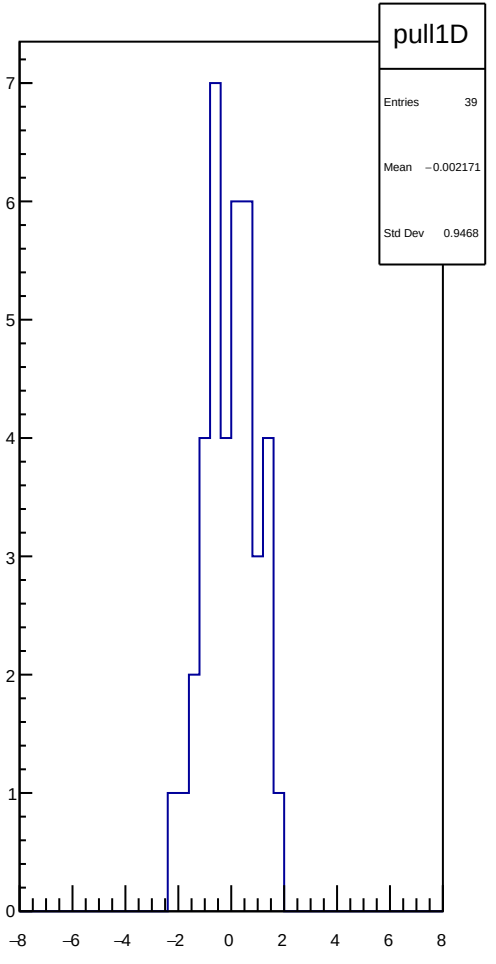

asym_sam3_rms vs run
χ² / ndf 393.3 / 38
p0 8058 ± 9.342
8500
8400
8300
8200
8100
8000
7900
7800
7700
7600
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

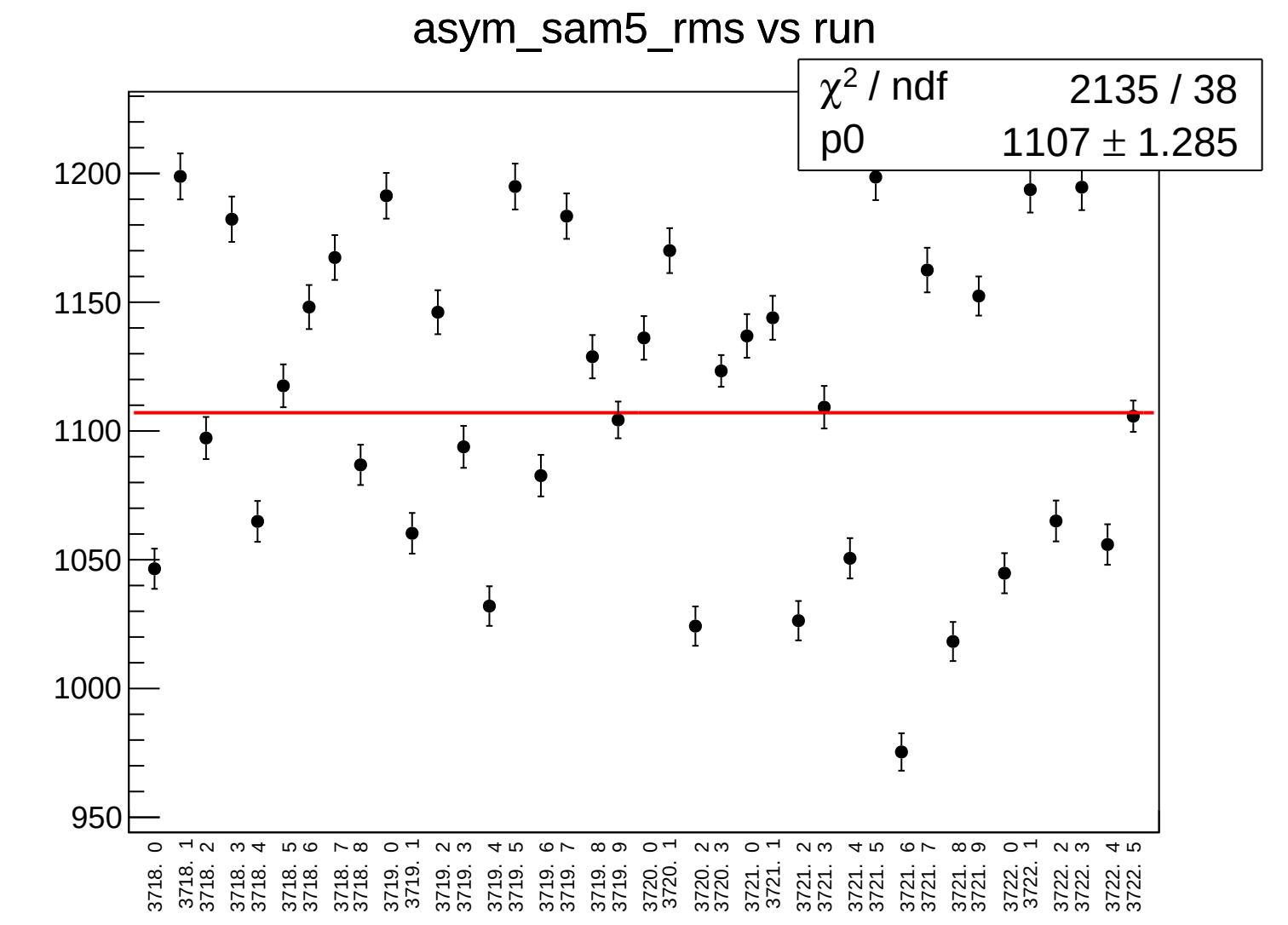

asym_sam4_mean vs run
×10^3
χ^2 / ndf 35.55 / 38
p0 −2081 ± 7795
150
100
50
0
−50
−100
−150
−200
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 84.76
Std Dev 23.38
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

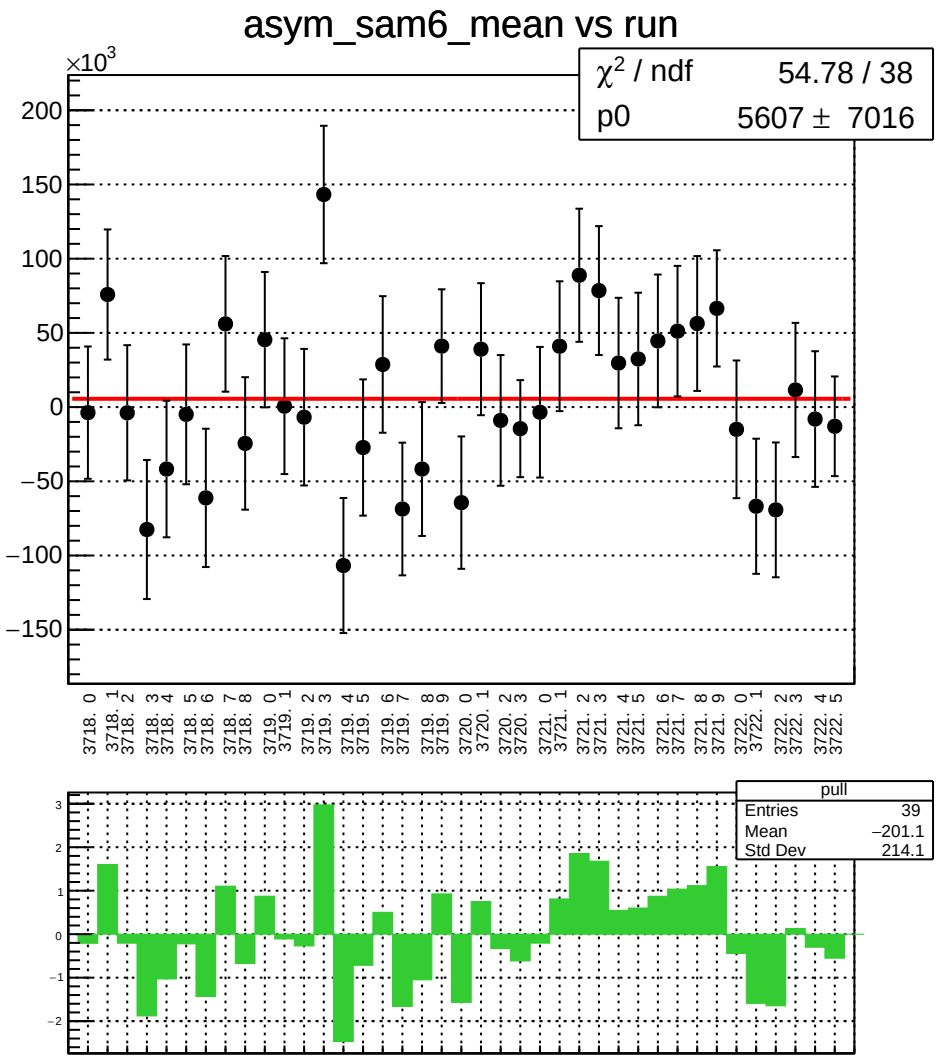

pull1D
Entries 39
Mean 0.005111
Std Dev 0.9547
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

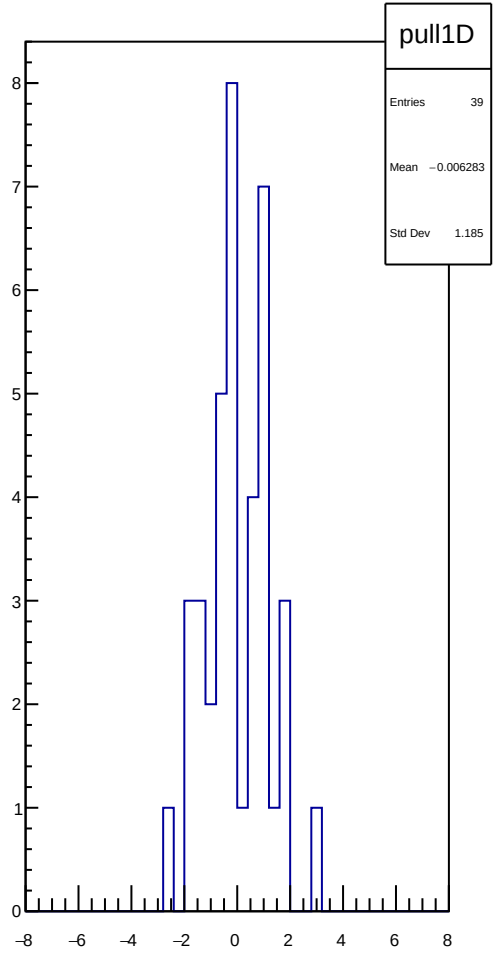

asym_sam4_rms vs run
χ² / ndf 286.6 / 38
p0 4755 ± 5.512
5000
4900
4800
4700
4600
4500
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

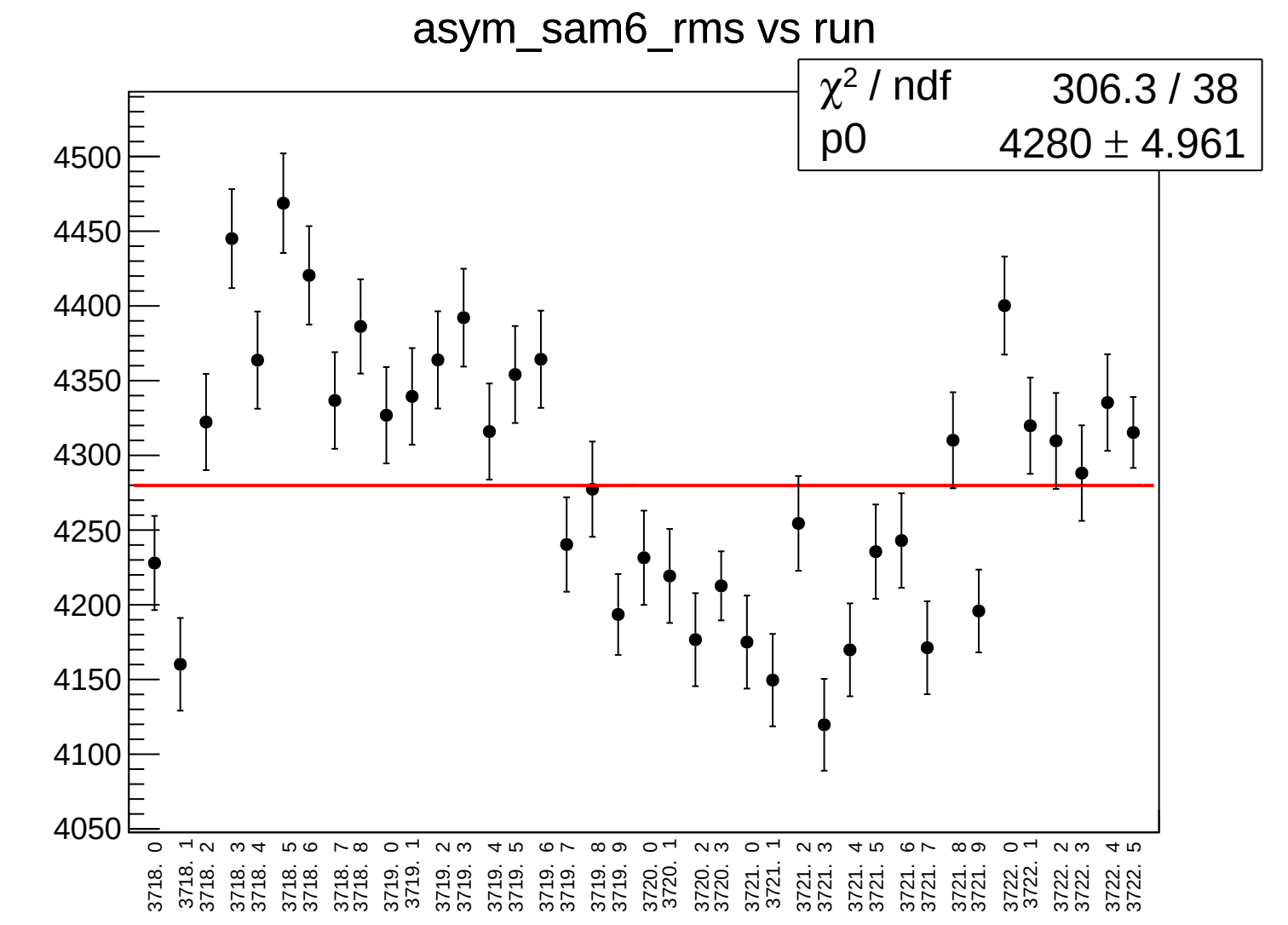

asym_sam5_mean vs run
χ² / ndf 34.96 / 38
p0 1994 ± 1817
30000
20000
10000
0
−10000
−20000
−30000
−40000
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −1113
Std Dev 1130
1.5
1
0.5
0
−0.5
−1
−1.5
−2

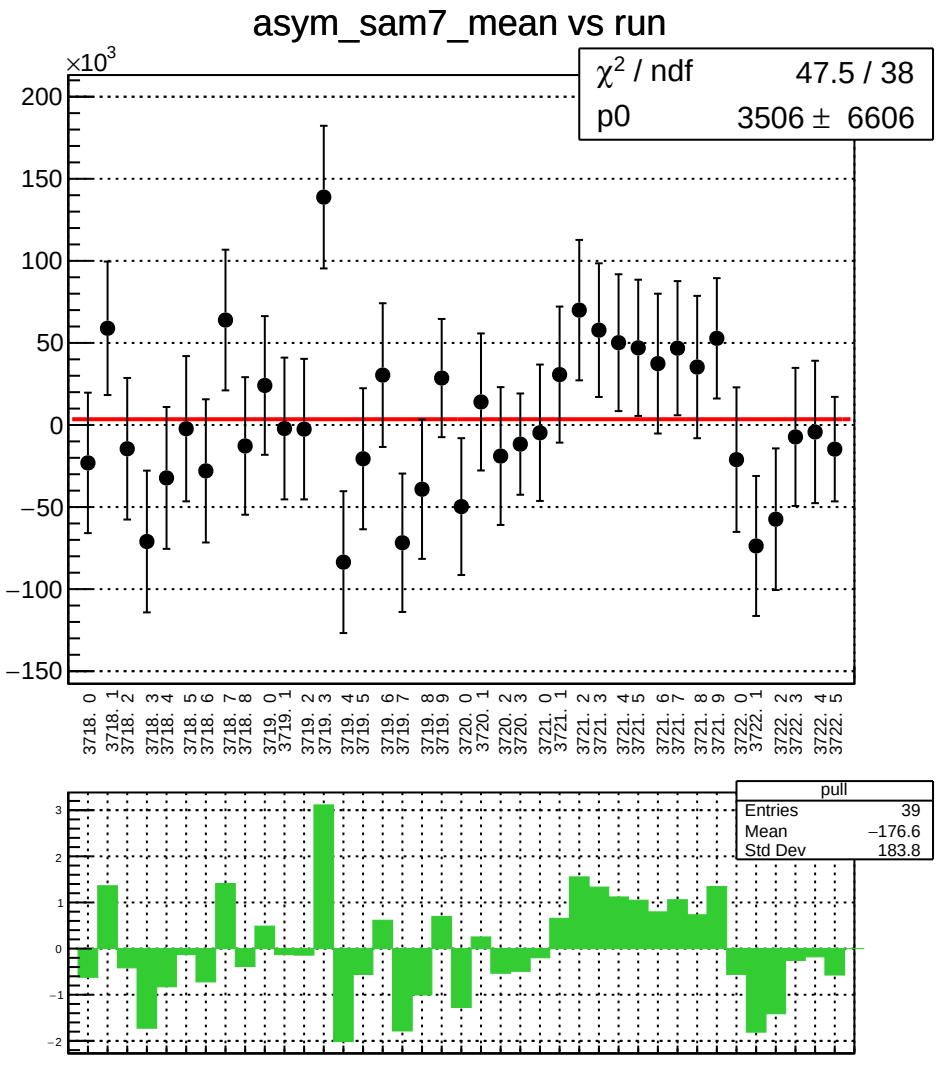

pull1D
Entries 39
Mean −0.002171
Std Dev 0.9468
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

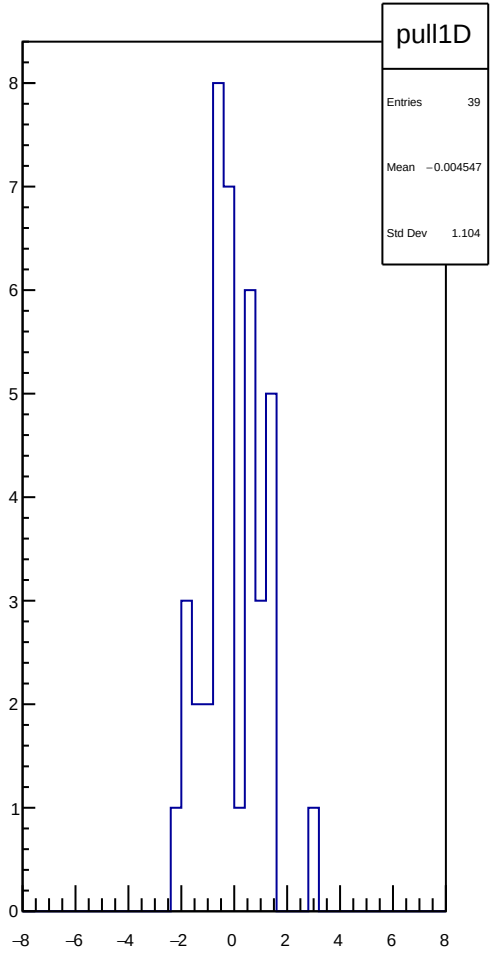

asym_sam5_rms vs run
χ² / ndf 2135 / 38
p0 1107 ± 1.285
1200
1150
1100
1050
1000
950
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

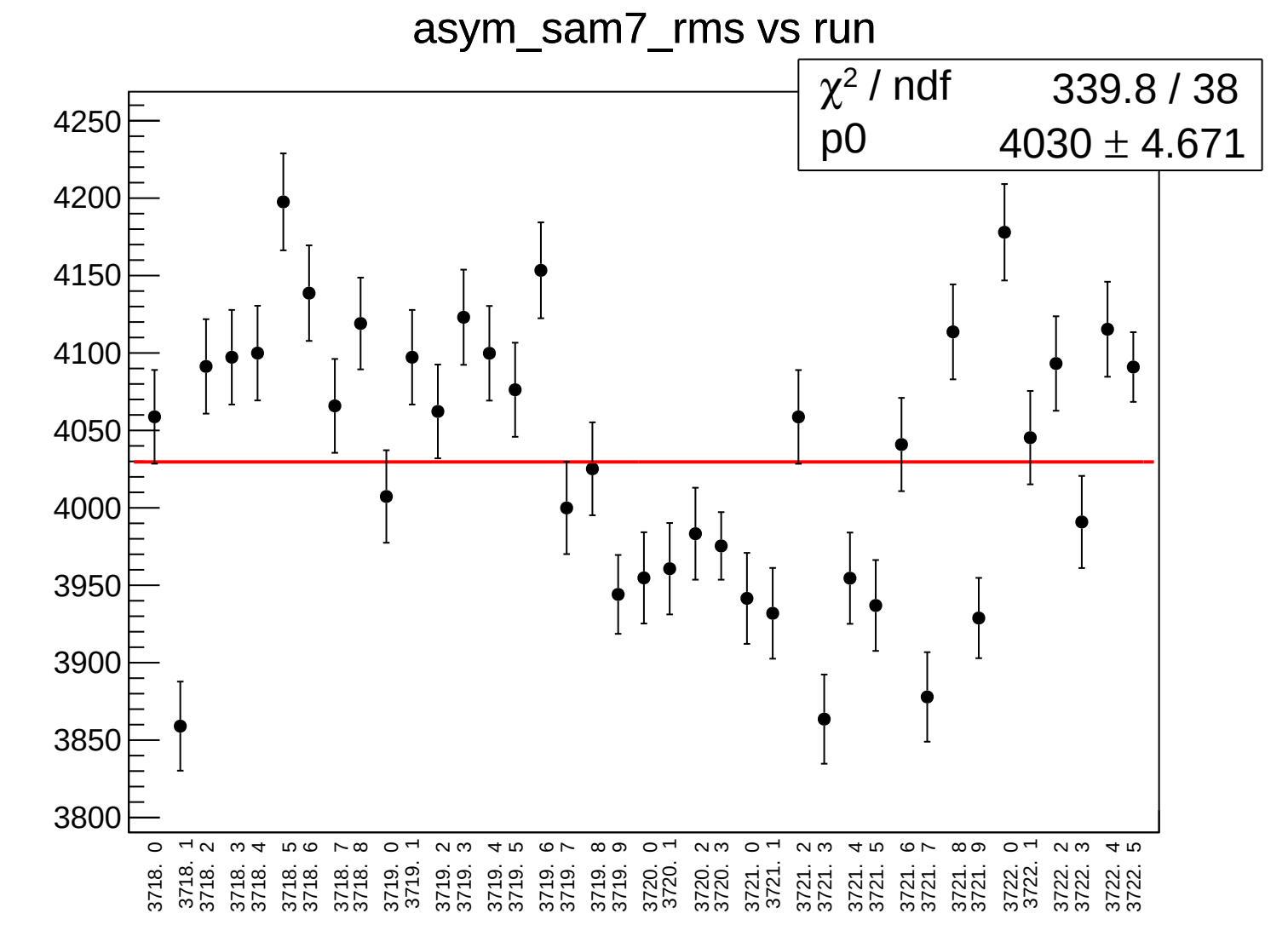

asym_sam6_mean vs run
×10^3
χ^2 / ndf 54.78 / 38
p0 5607 ± 7016
200
150
100
50
0
−50
−100
−150
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −201.1
Std Dev 214.1
3
2
1
0
−1
−2

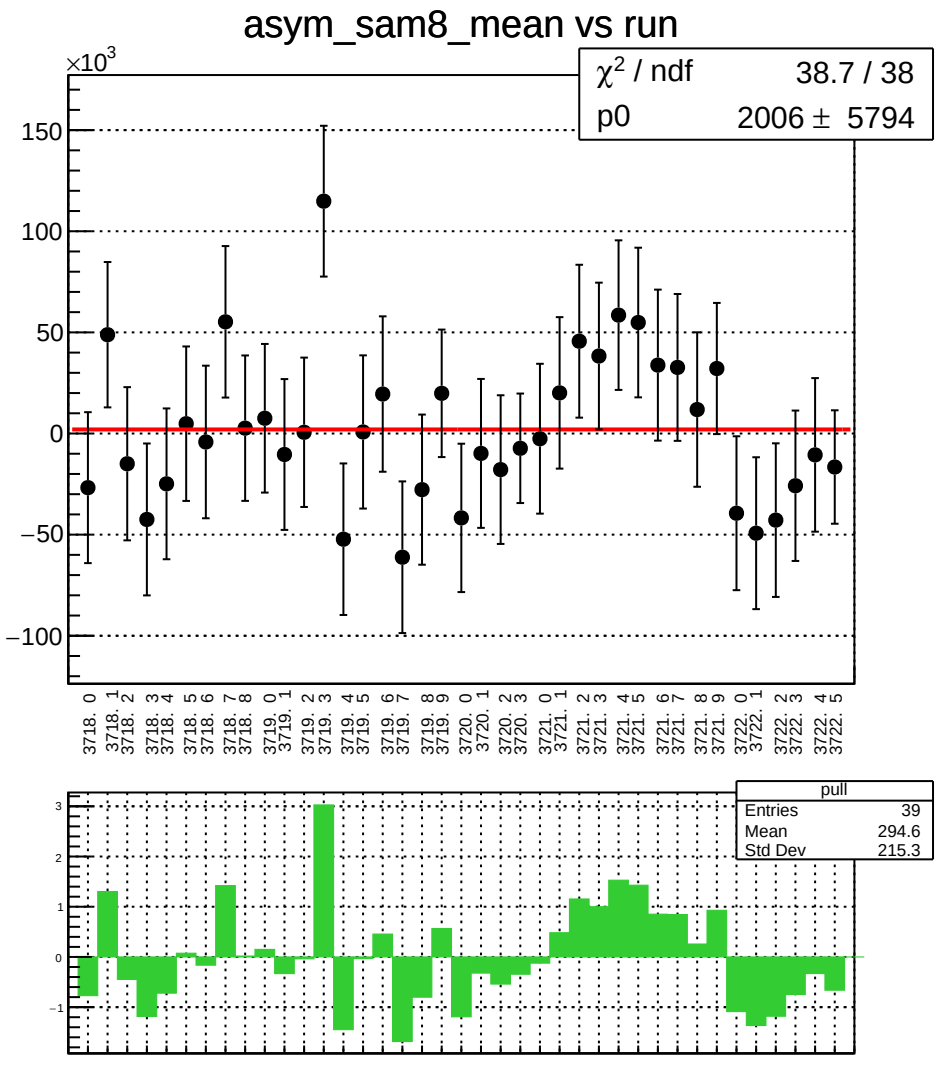

pull1D
Entries 39
Mean −0.006283
Std Dev 1.185
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

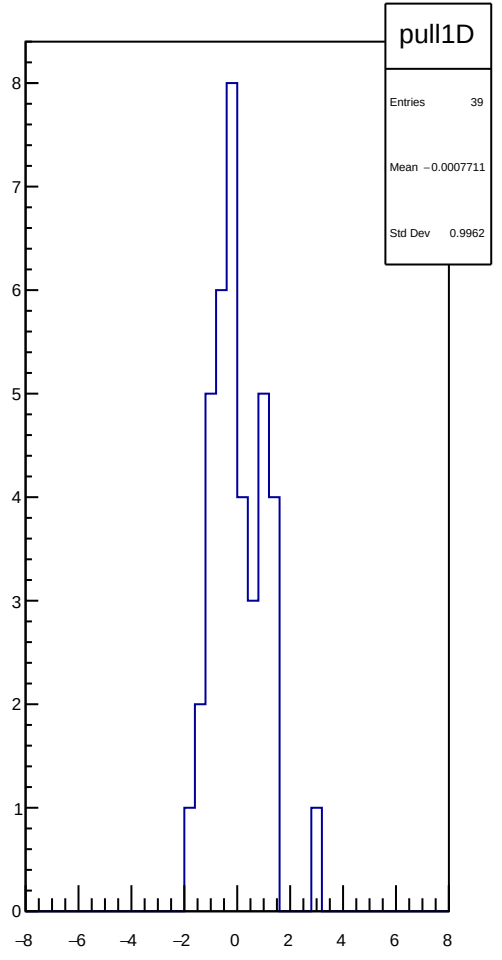

asym_sam6_rms vs run
χ² / ndf 306.3 / 38
p0 4280 ± 4.961
4500
4450
4400
4350
4300
4250
4200
4150
4100
4050
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

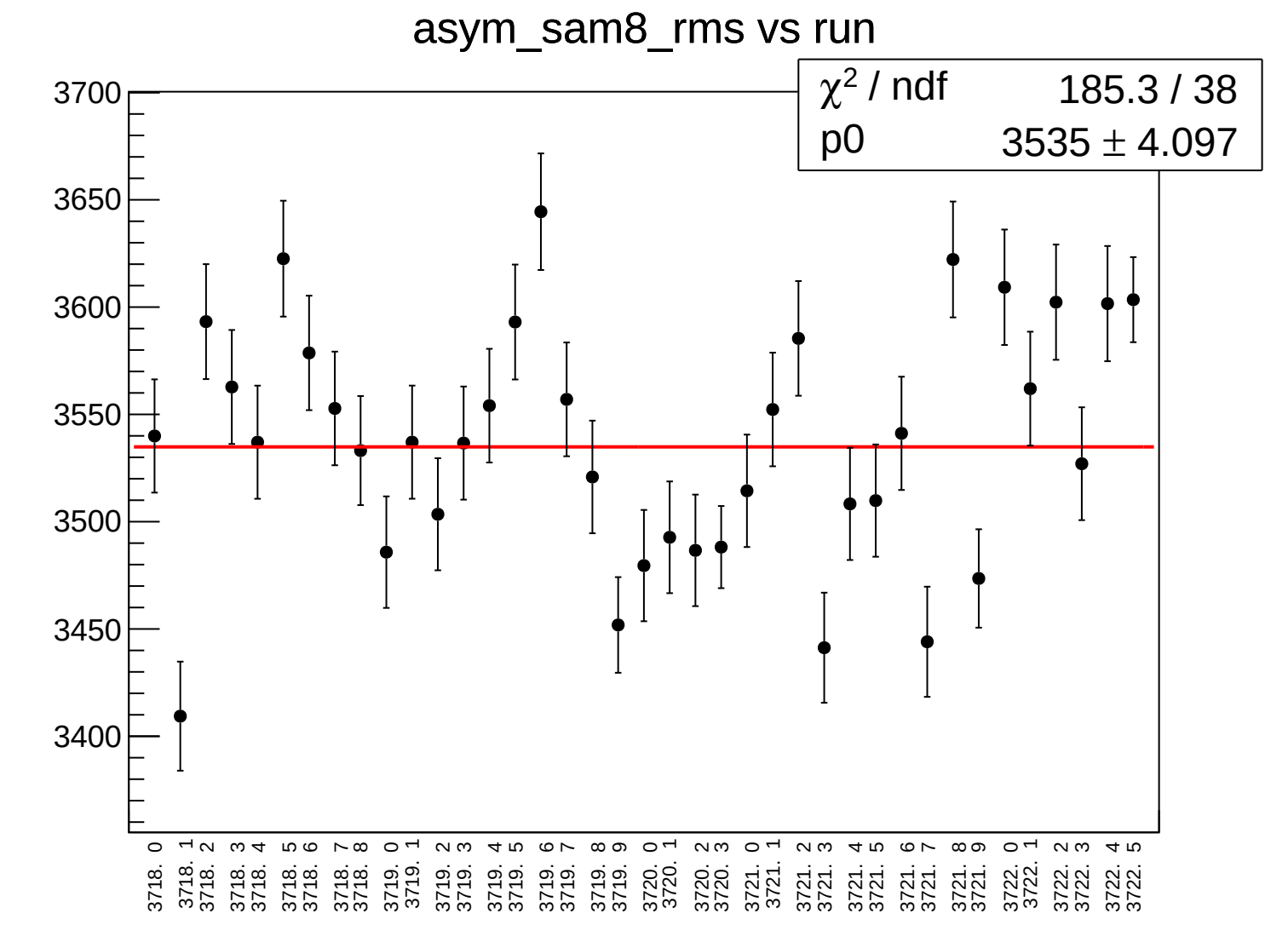

asym_sam7_mean vs run
×10^3
χ^2 / ndf 47.5 / 38
p0 3506 ± 6606
200
150
100
50
0
−50
−100
−150
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −176.6
Std Dev 183.8
3
2
1
0
−1
−2

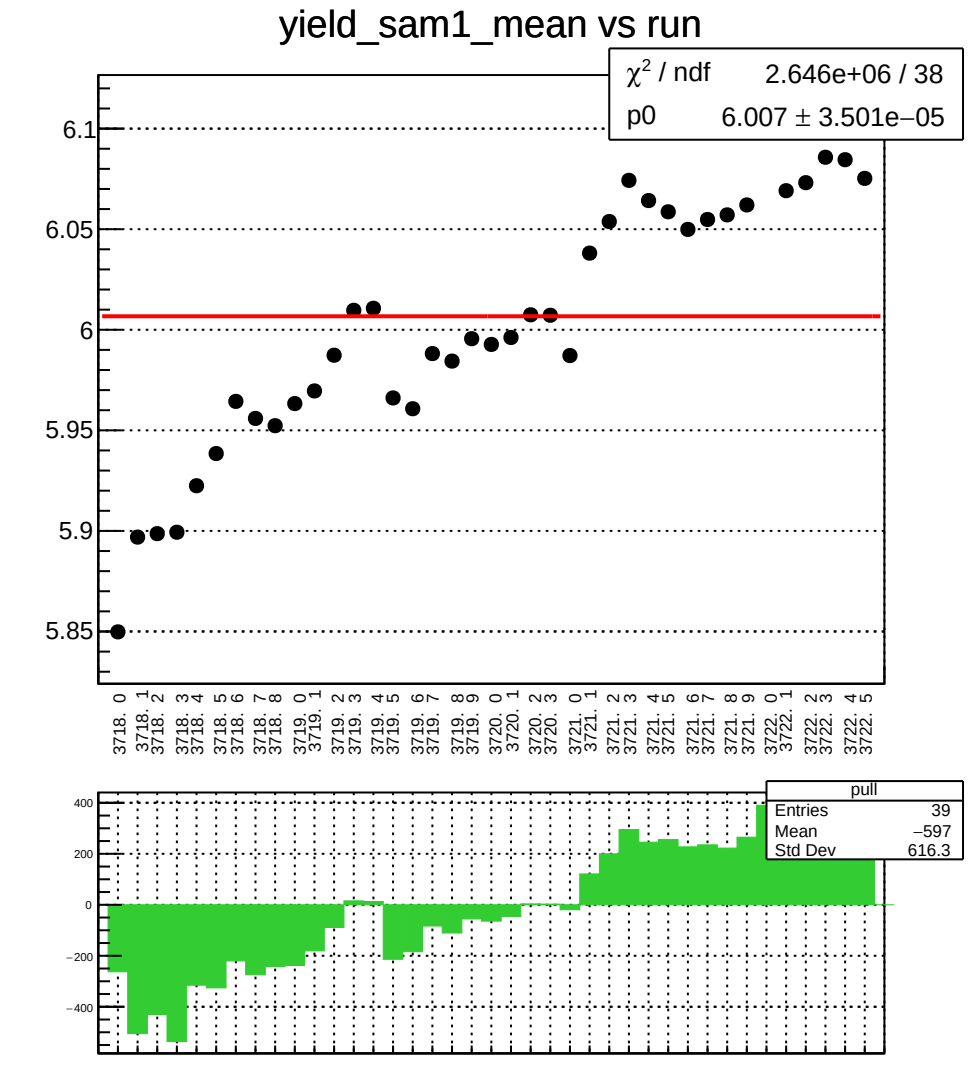

pull1D
Entries 39
Mean −0.004547
Std Dev 1.104
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

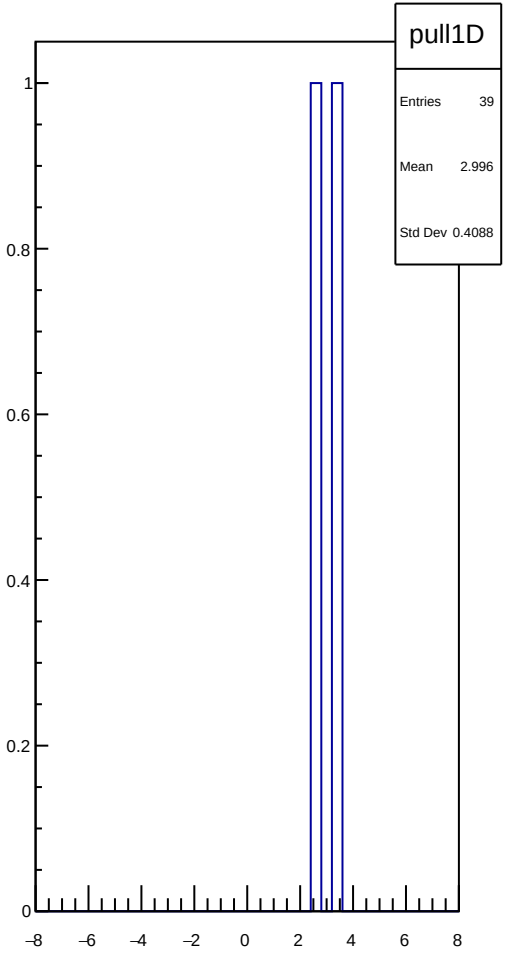

asym_sam7_rms vs run
χ² / ndf 339.8 / 38
p0 4030 ± 4.671
4250
4200
4150
4100
4050
4000
3950
3900
3850
3800
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

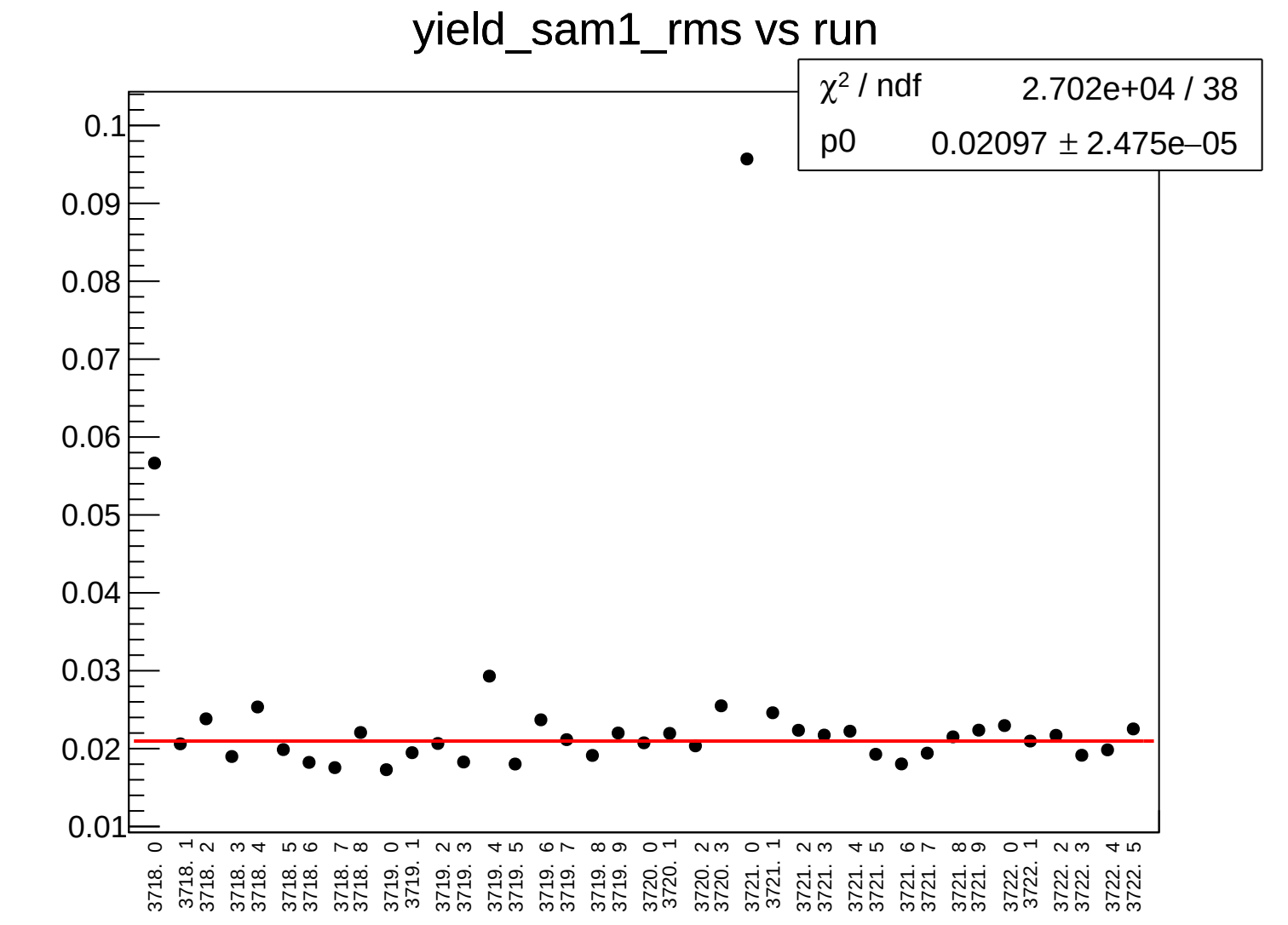

asym_sam8_mean vs run
×10^3
χ^2 / ndf 38.7 / 38
p0 2006 ± 5794
150
100
50
0
−50
−100
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 294.6
Std Dev 215.3
3
2
1
0
−1

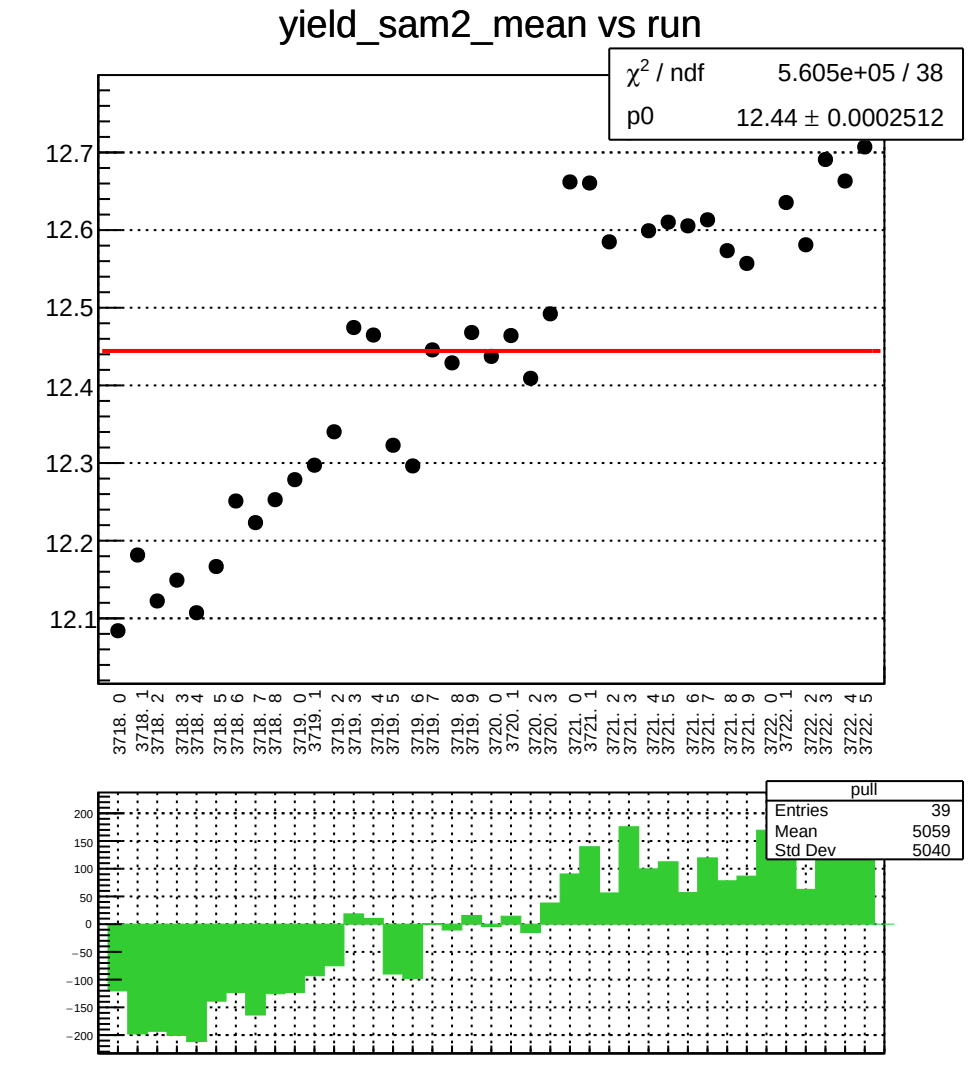

pull1D
Entries 39
Mean −0.0007711
Std Dev 0.9962
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

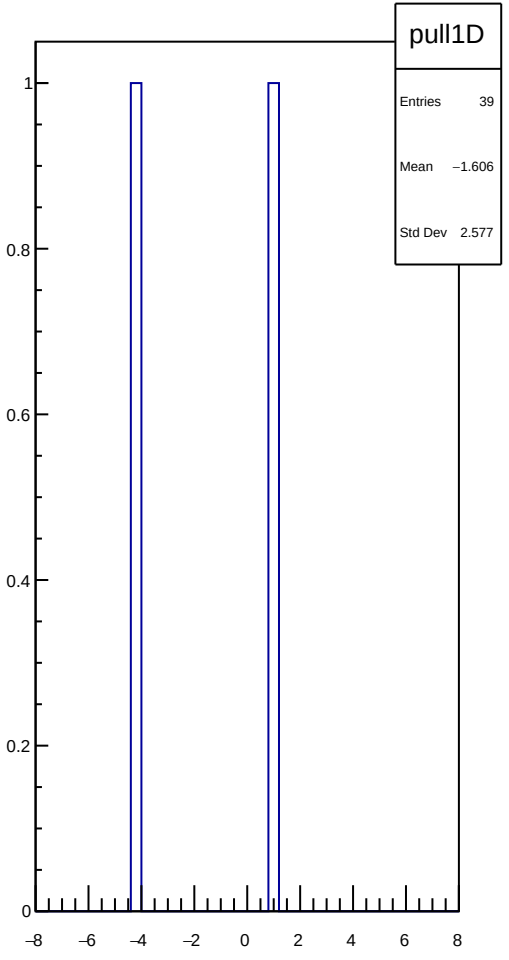

asym_sam8_rms vs run
χ² / ndf 185.3 / 38
p0 3535 ± 4.097
3700
3650
3600
3550
3500
3450
3400
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

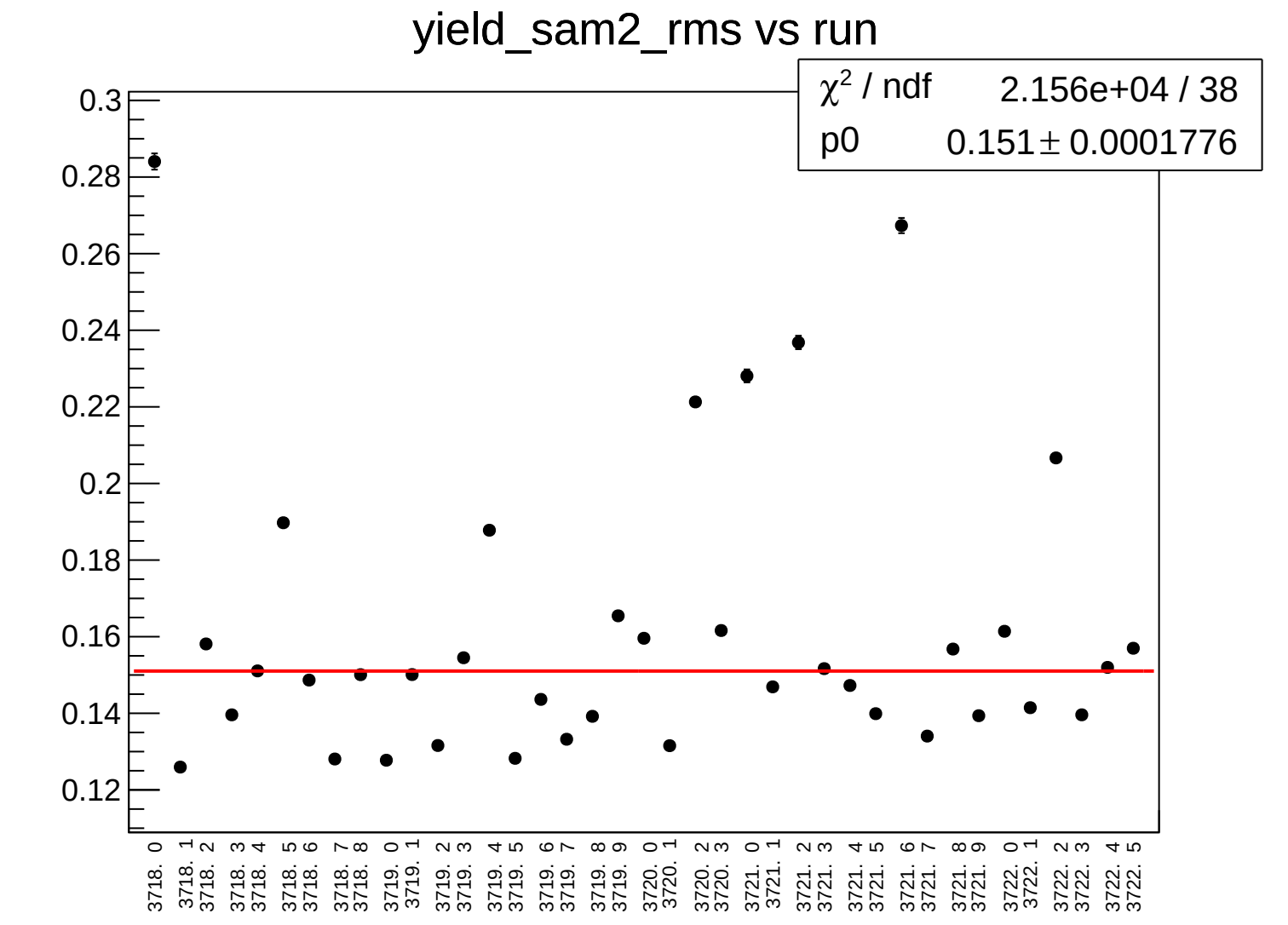

yield_sam1_mean vs run
χ² / ndf 2.646e+06 / 38
p0 6.007 ± 3.501e−05
6.1
6.05
6
5.95
5.9
5.85
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −597
Std Dev 616.3
400
200
0
−200
−400

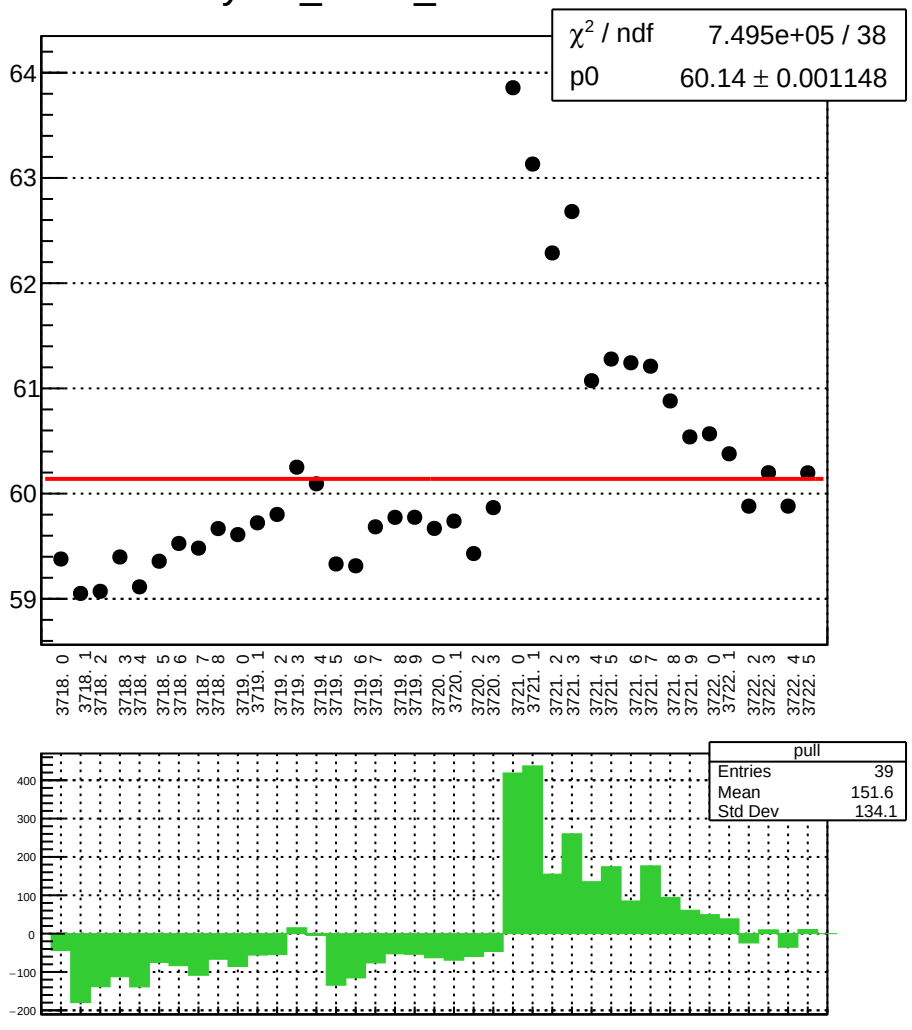

pull1D
Entries 39
Mean 2.996
Std Dev 0.4088
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

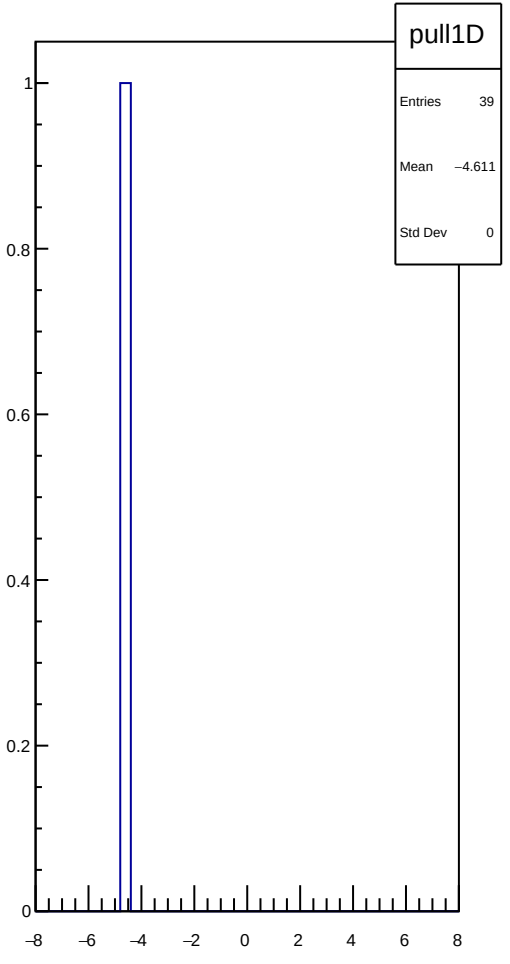

yield_sam1_rms vs run
χ² / ndf 2.702e+04 / 38
p0 0.02097 ± 2.475e–05
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

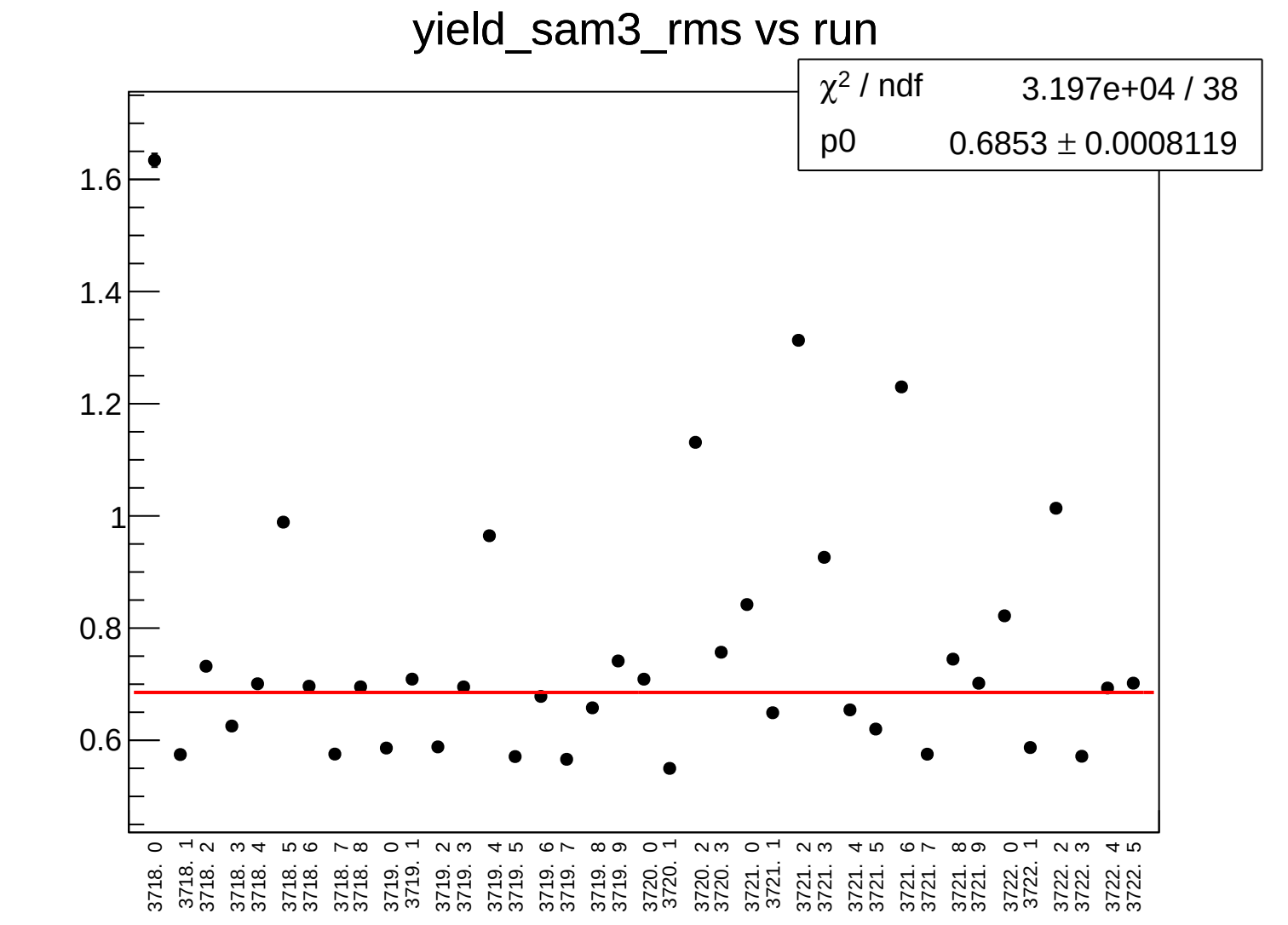

yield_sam2_mean vs run
χ² / ndf 5.605e+05 / 38
p0 12.44 ± 0.0002512
12.7
12.6
12.5
12.4
12.3
12.2
12.1
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 5059
Std Dev 5040
200
150
100
50
0
−50
−100
−150
−200

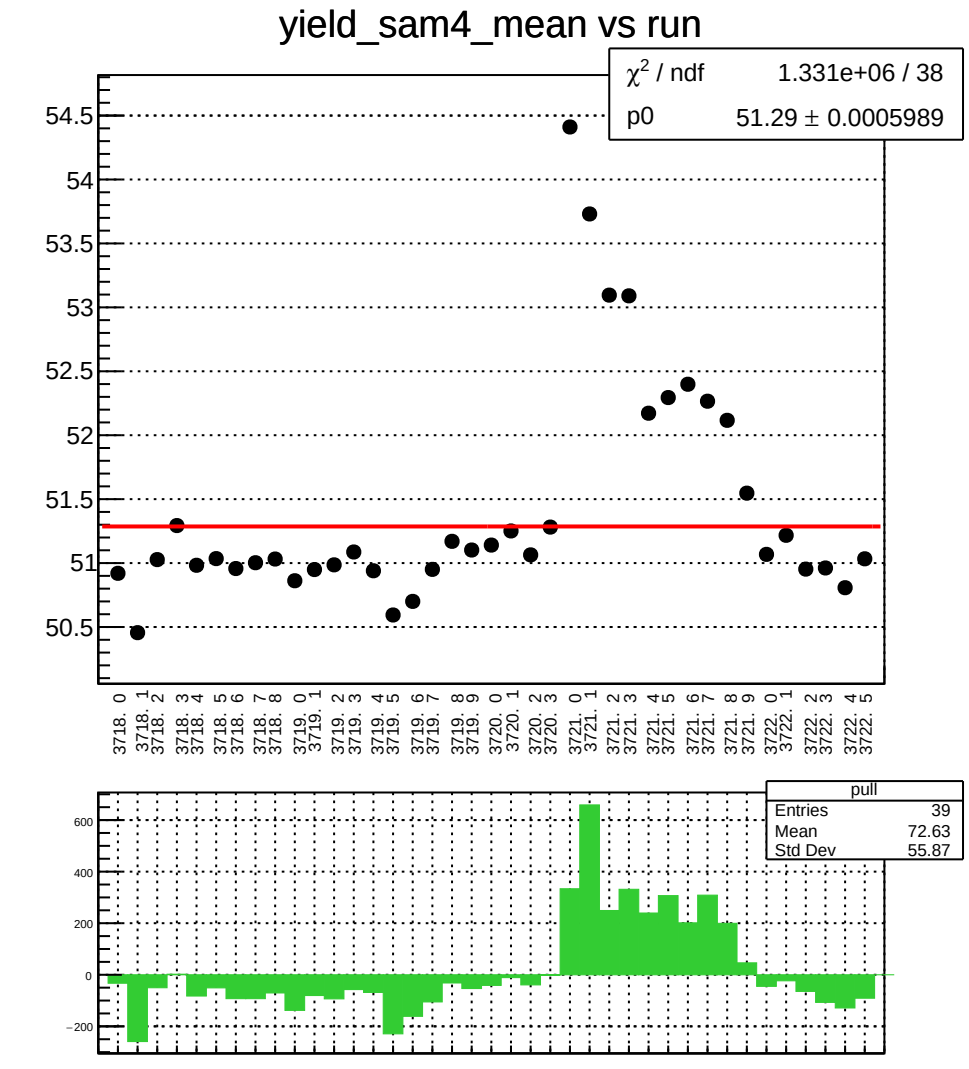

pull1D
Entries 39
Mean −1.606
Std Dev 2.577
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

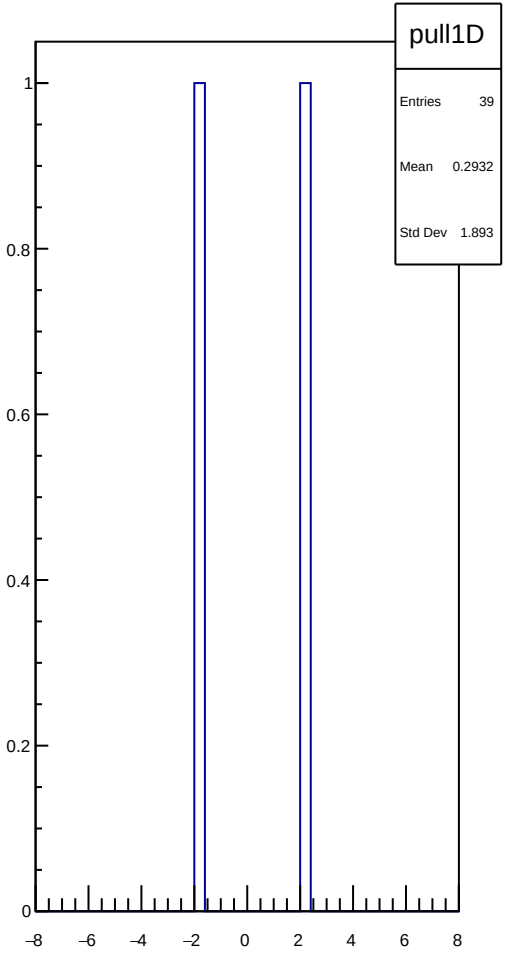

yield_sam2_rms vs run
χ² / ndf 2.156e+04 / 38
p0 0.151 ± 0.0001776
0.3
0.28
0.26
0.24
0.22
0.2
0.18
0.16
0.14
0.12
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

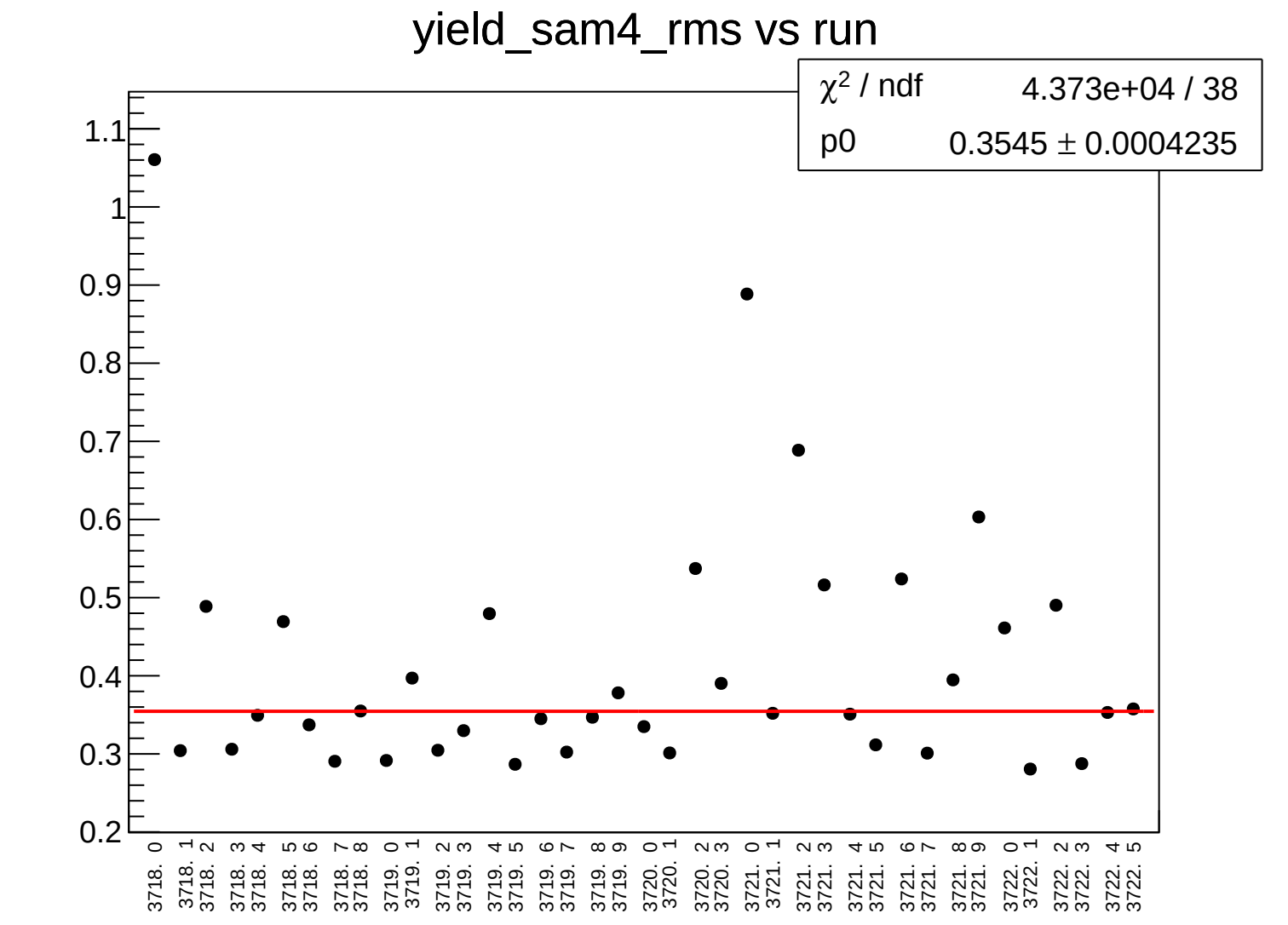

yield_sam3_mean vs run
χ² / ndf 7.495e+05 / 38
p0 60.14 ± 0.001148
64
63
62
61
60
59
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 151.6
Std Dev 134.1
400
300
200
100
0
−100
−200

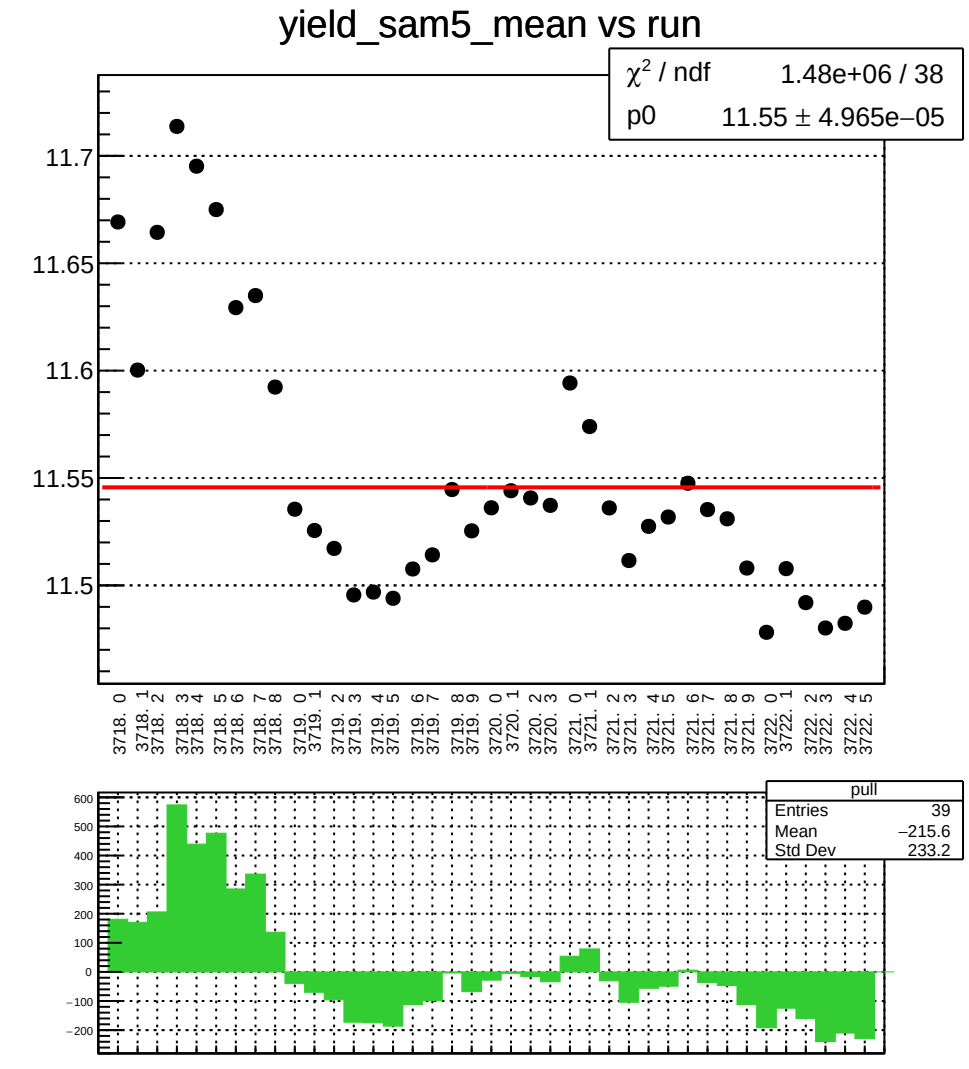

pull1D
Entries 39
Mean −4.611
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

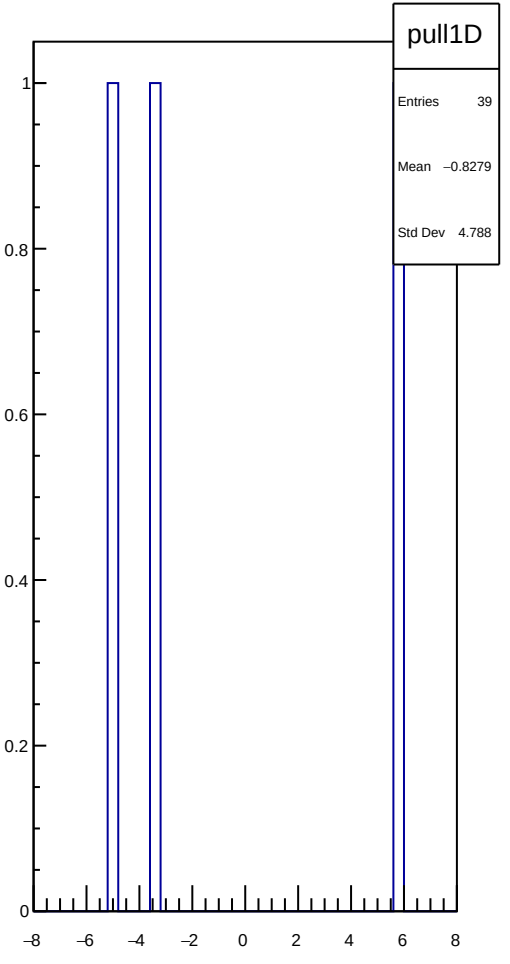

yield_sam3_rms vs run
χ² / ndf 3.197e+04 / 38
p0 0.6853 ± 0.0008119
1.6
1.4
1.2
1
0.8
0.6
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

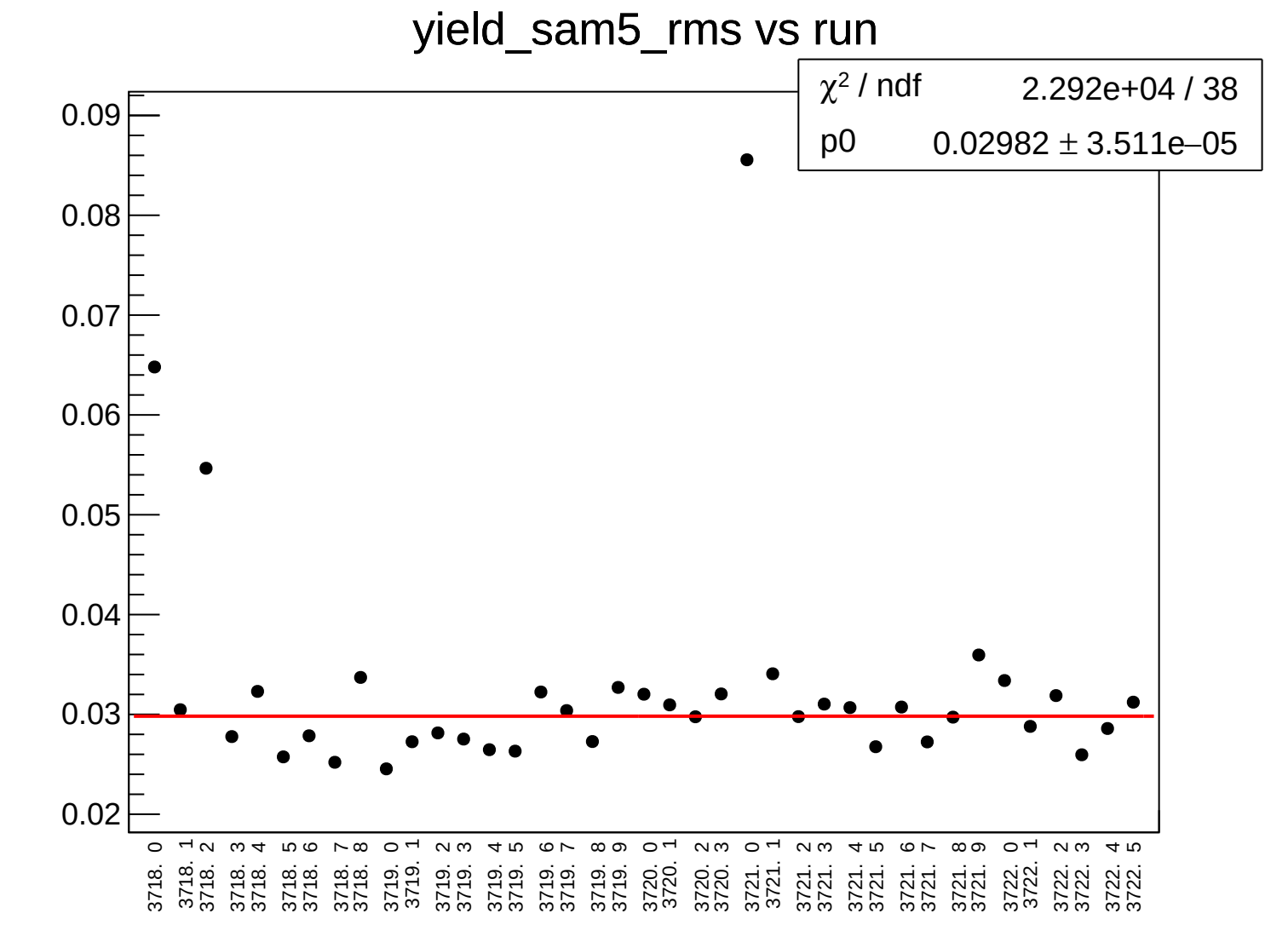

yield_sam4_mean vs run
χ² / ndf 1.331e+06 / 38
p0 51.29 ± 0.0005989
54.5
54
53.5
53
52.5
52
51.5
51
50.5
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 72.63
Std Dev 55.87
600
400
200
0
−200

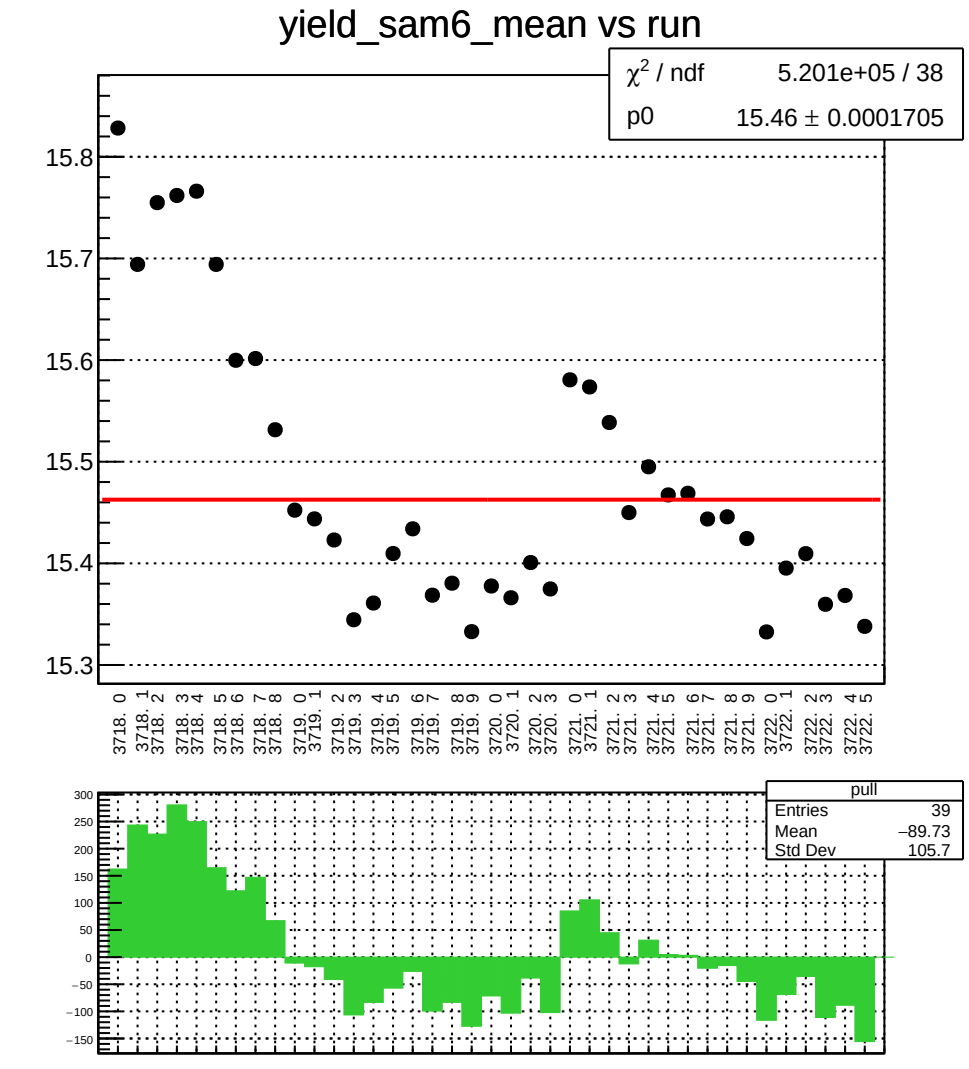

pull1D
Entries 39
Mean 0.2932
Std Dev 1.893
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

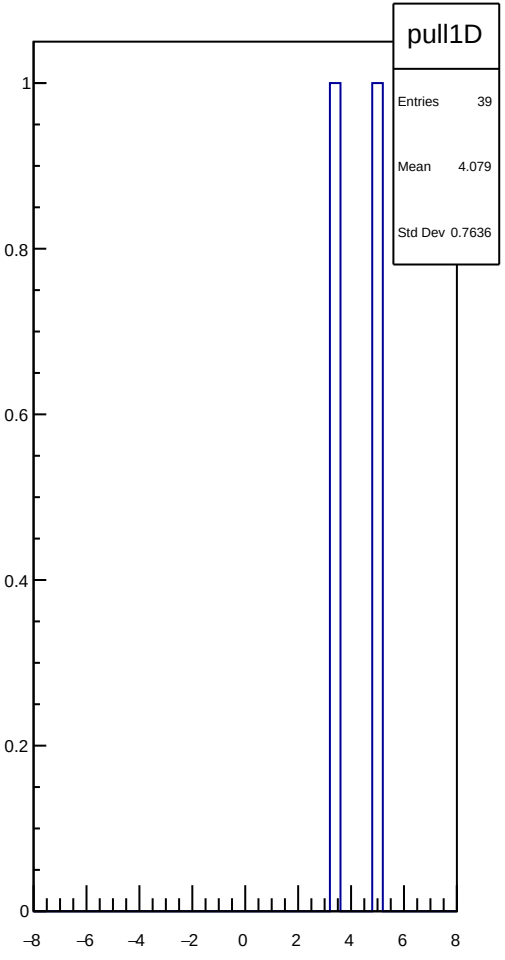

yield_sam4_rms vs run
χ² / ndf 4.373e+04 / 38
p0 0.3545 ± 0.0004235
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

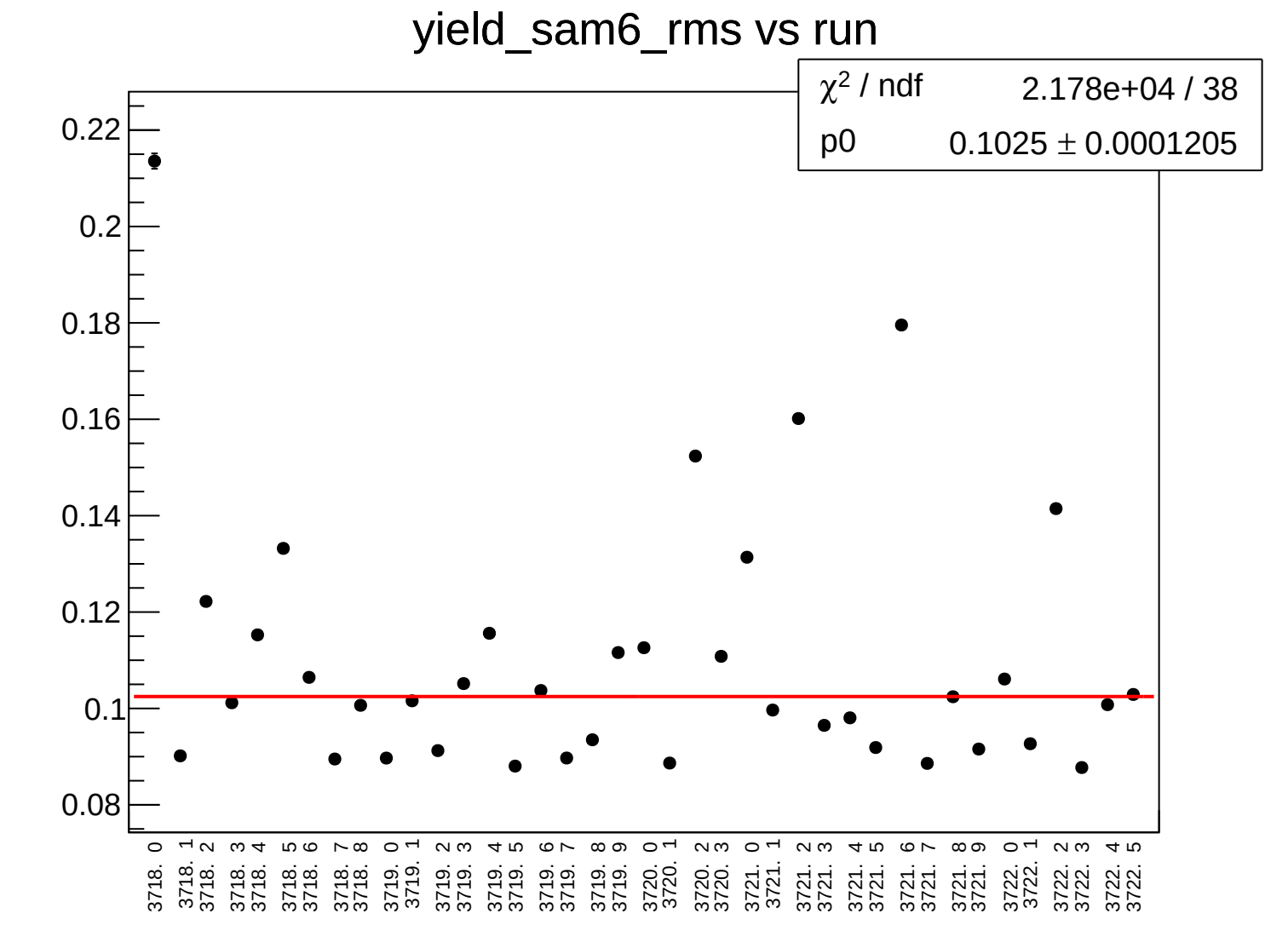

yield_sam5_mean vs run
χ² / ndf 1.48e+06 / 38
p0 11.55 ± 4.965e−05
11.7
11.65
11.6
11.55
11.5
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −215.6
Std Dev 233.2
600
500
400
300
200
100
0
−100
−200

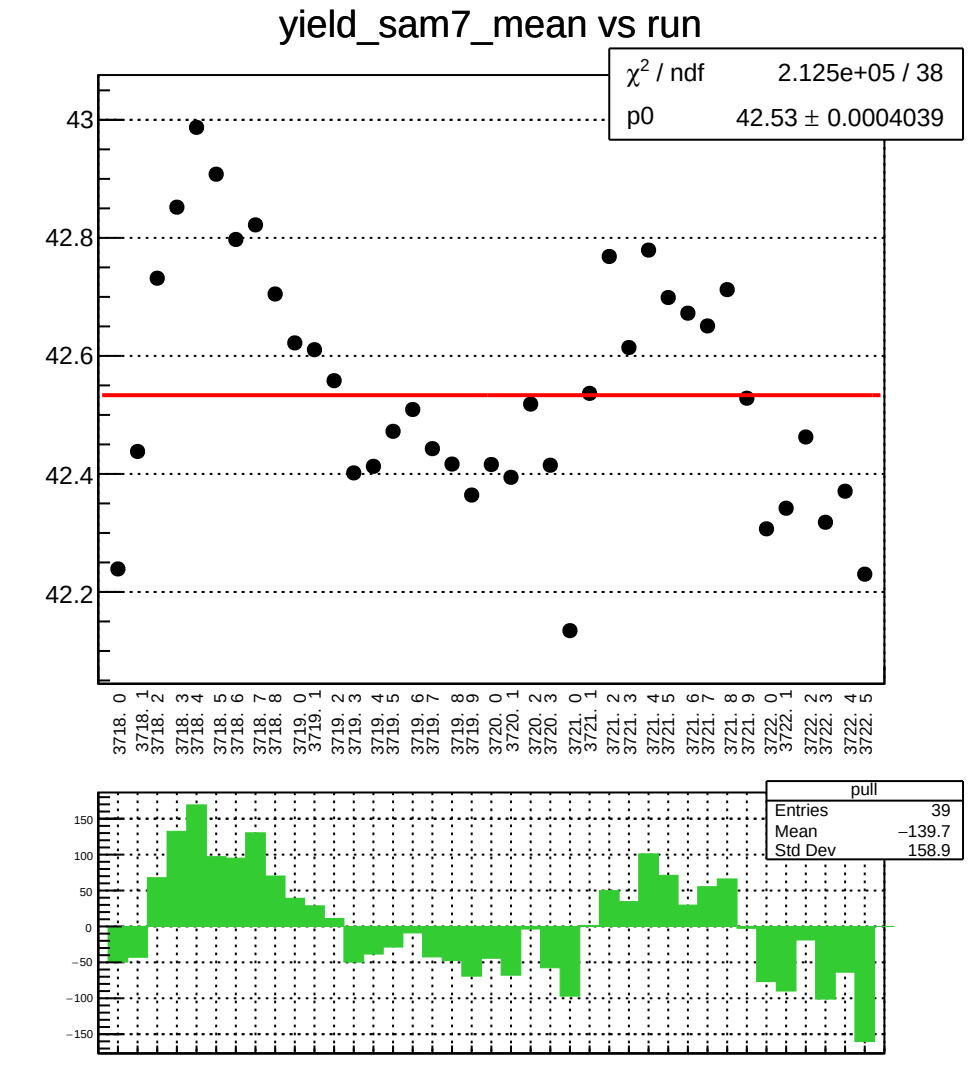

pull1D
Entries 39
Mean −0.8279
Std Dev 4.788
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

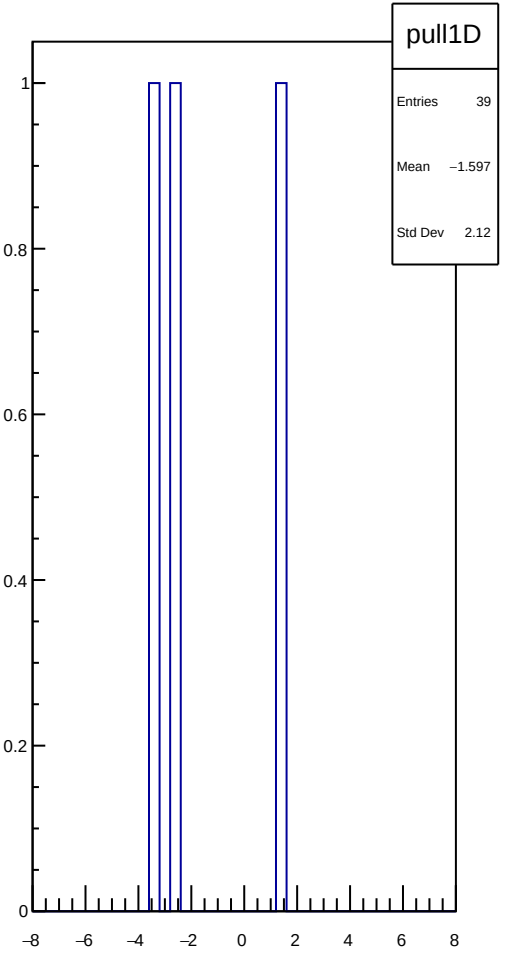

yield_sam5_rms vs run
χ² / ndf 2.292e+04 / 38
p0 0.02982 ± 3.511e–05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

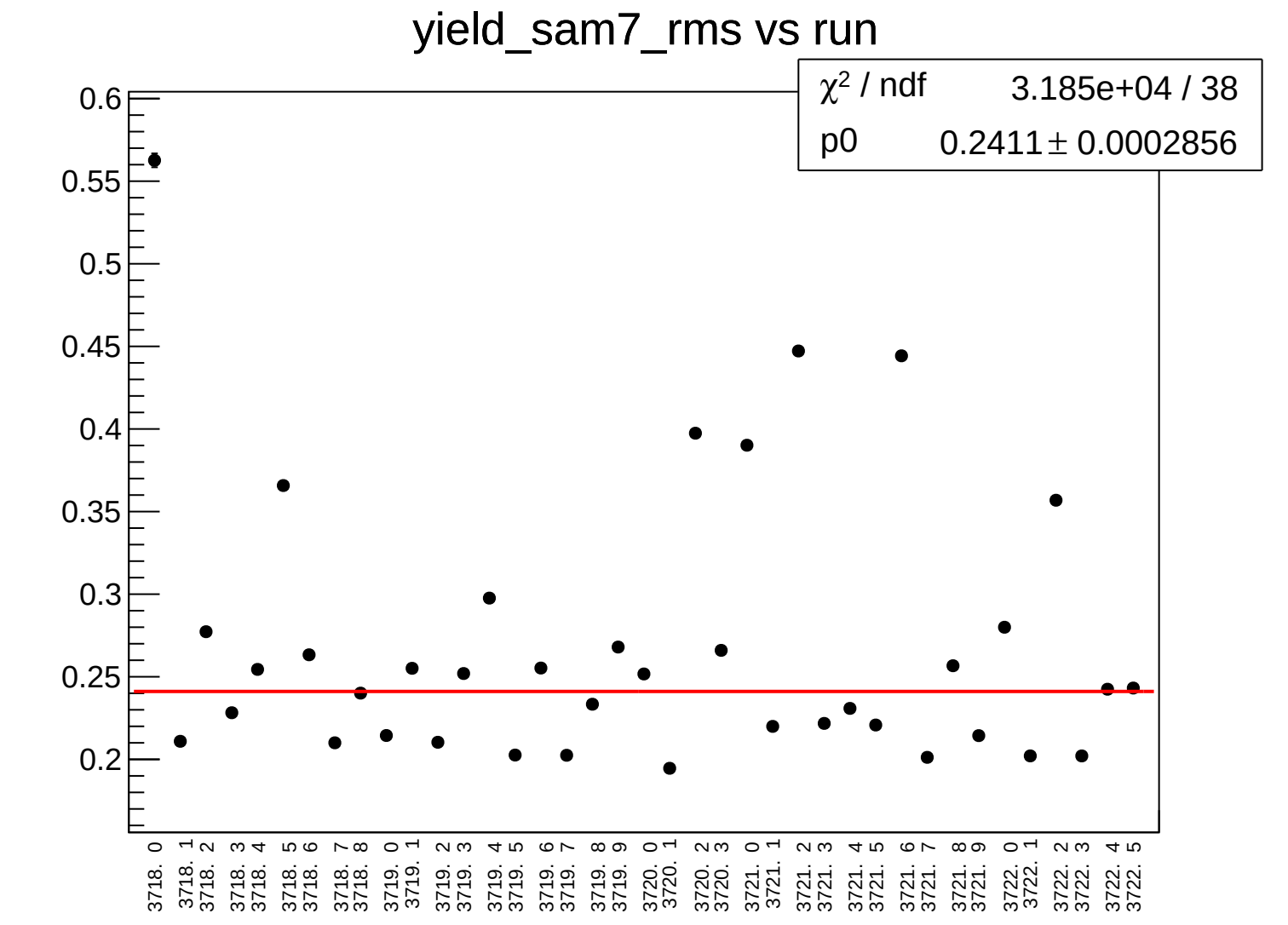

yield_sam6_mean vs run
χ² / ndf 5.201e+05 / 38
p0 15.46 ± 0.0001705
15.8
15.7
15.6
15.5
15.4
15.3
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −89.73
Std Dev 105.7
300
250
200
150
100
50
0
−50
−100
−150

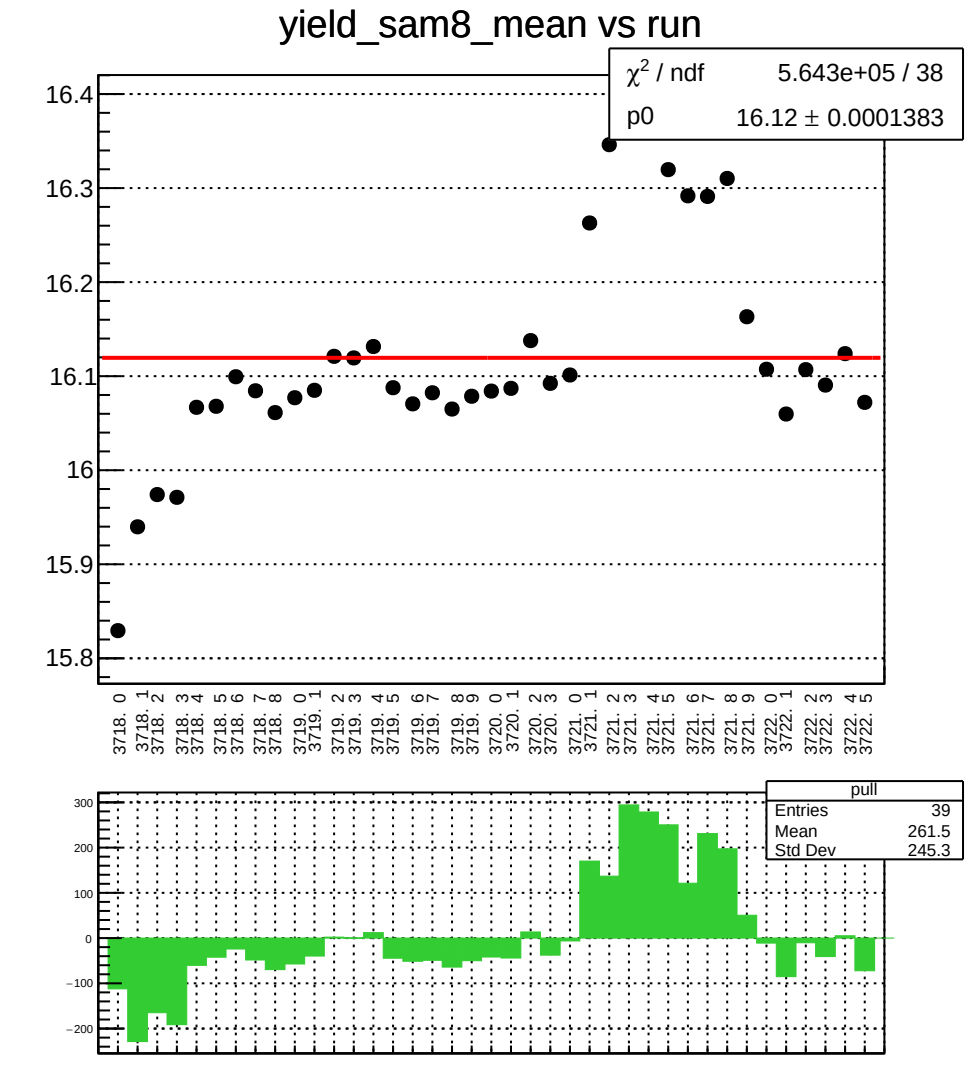

pull1D
Entries 39
Mean 4.079
Std Dev 0.7636
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

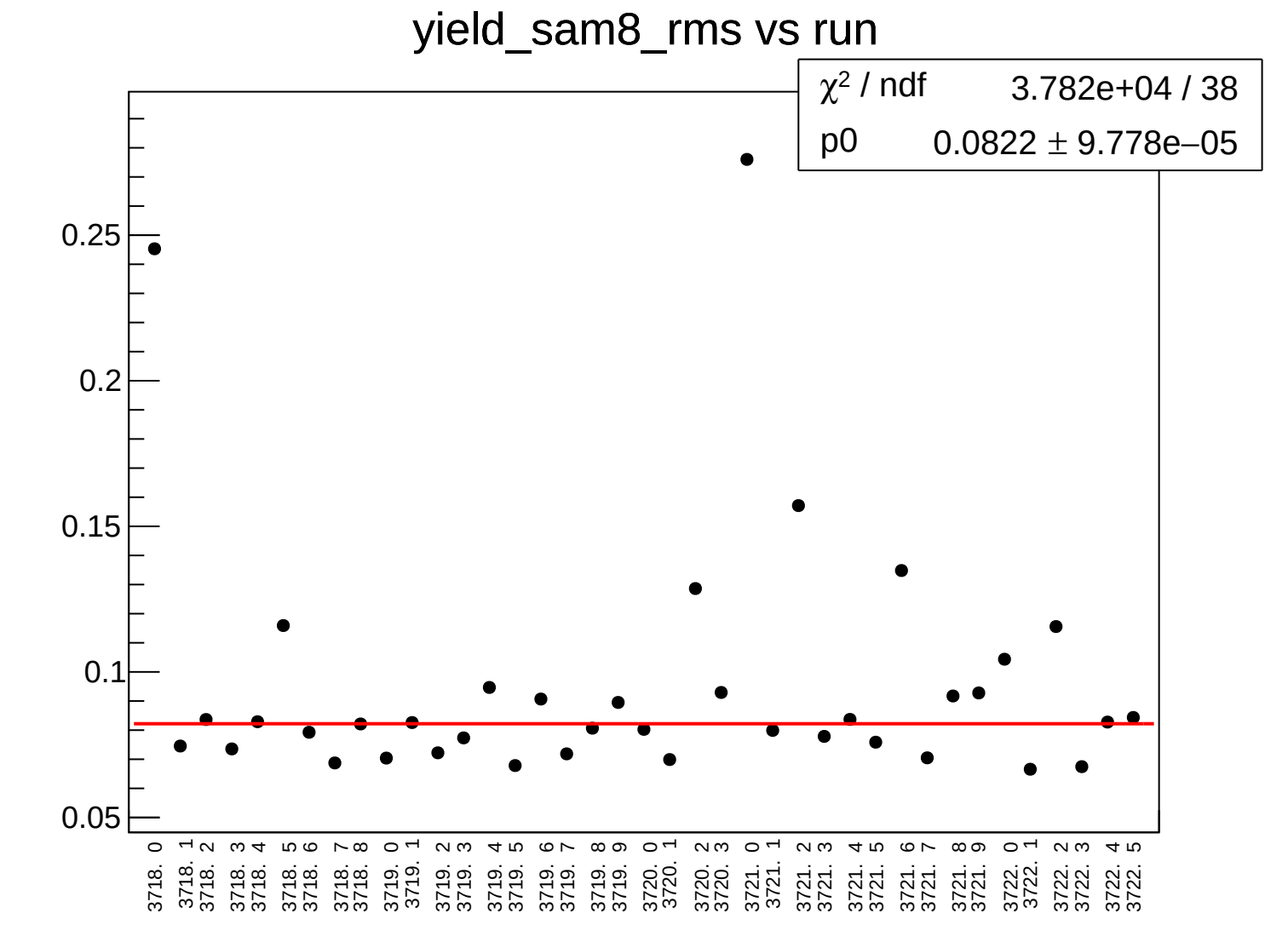

yield_sam6_rms vs run
χ² / ndf 2.178e+04 / 38
p0 0.1025 ± 0.0001205
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

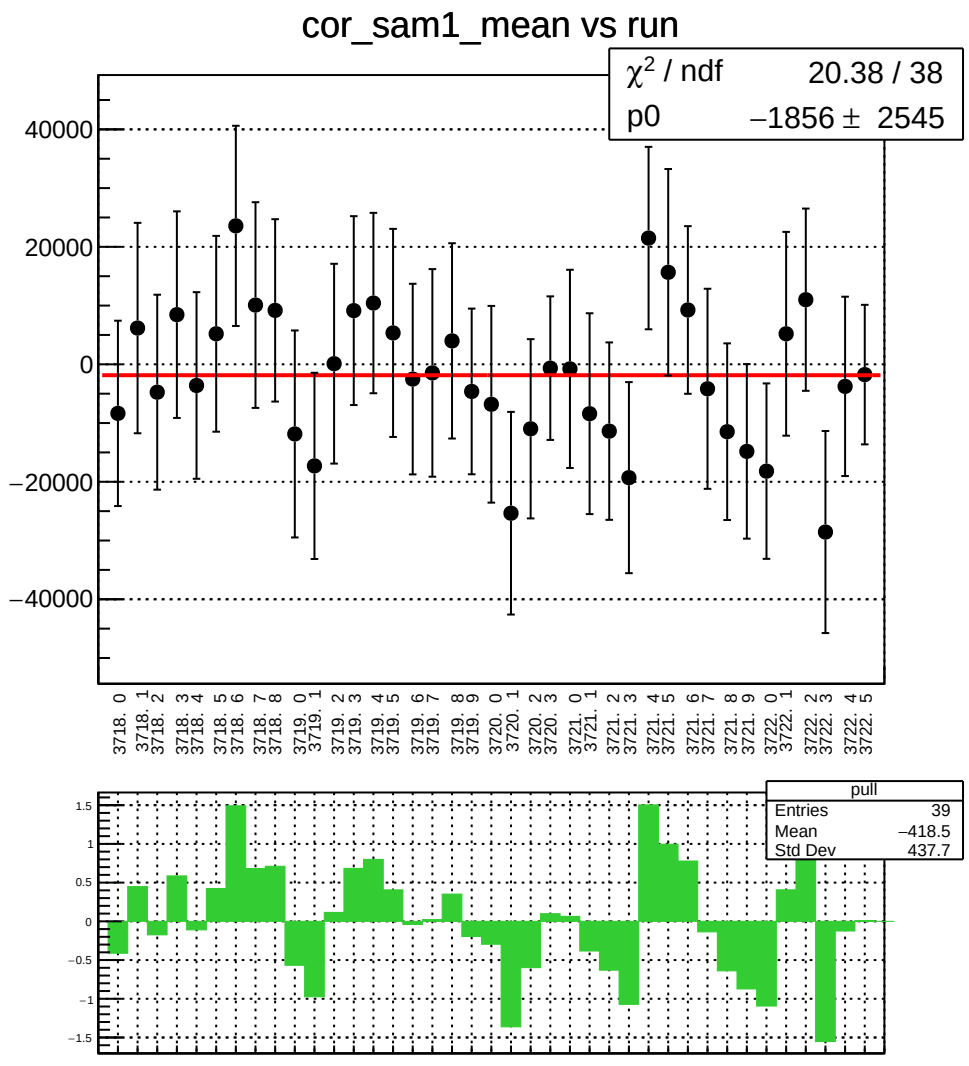

yield_sam7_mean vs run
χ² / ndf 2.125e+05 / 38
p0 42.53 ± 0.0004039
43
42.8
42.6
42.4
42.2
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −139.7
Std Dev 158.9
150
100
50
0
−50
−100
−150

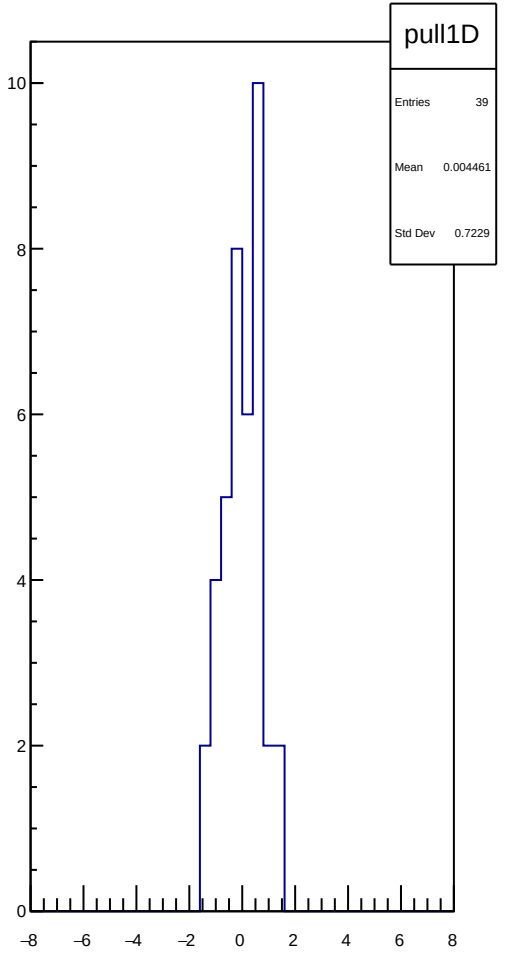

pull1D
Entries 39
Mean −1.597
Std Dev 2.12
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

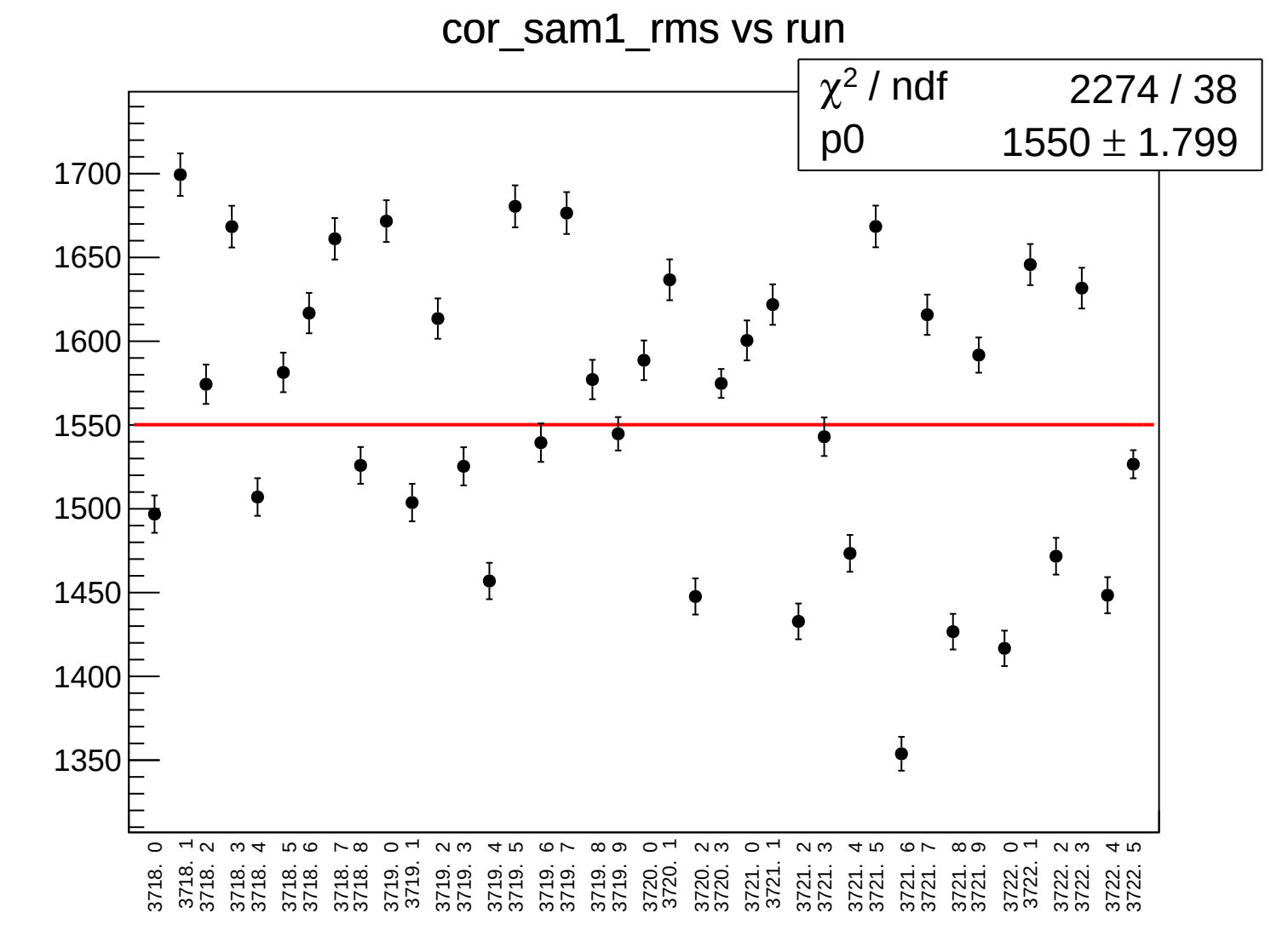

yield_sam7_rms vs run
χ² / ndf 3.185e+04 / 38
p0 0.2411 ± 0.0002856
0.6
0.55
0.5
0.45
0.4
0.35
0.3
0.25
0.2
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

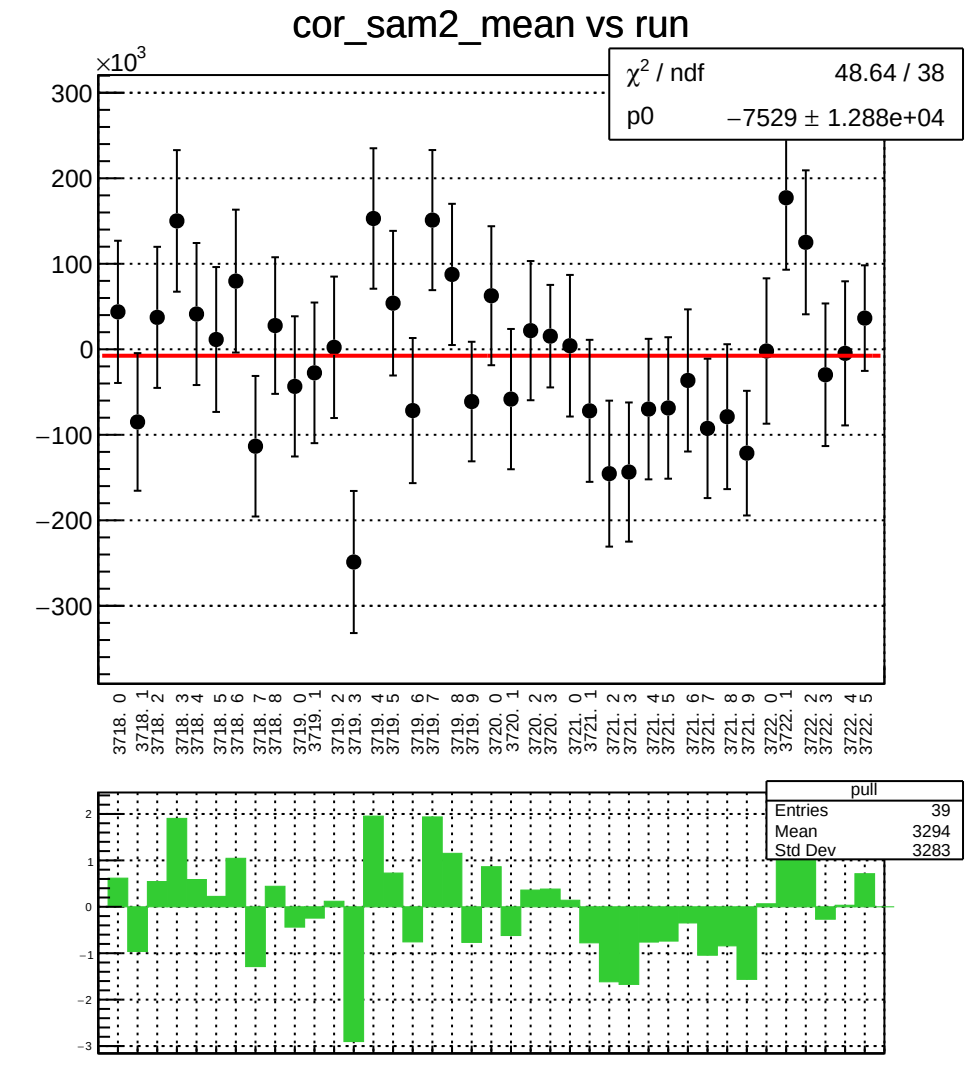

yield_sam8_mean vs run
χ² / ndf 5.643e+05 / 38
p0 16.12 ± 0.0001383
16.4
16.3
16.2
16.1
16
15.9
15.8
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 261.5
Std Dev 245.3
300
200
100
0
−100
−200
pull1D
Entries 39
Mean 0.1906
Std Dev 4.171
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

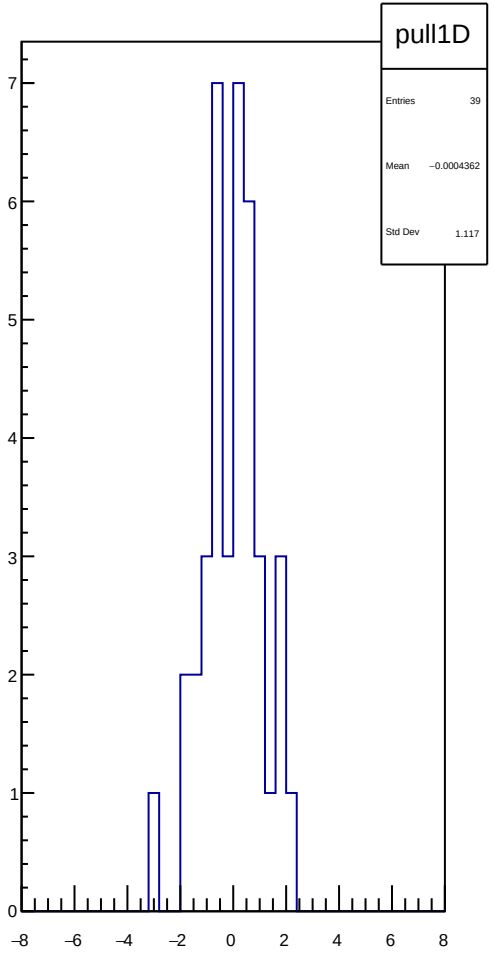

yield_sam8_rms vs run
χ² / ndf 3.782e+04 / 38
p0 0.0822 ± 9.778e−05
0.25
0.2
0.15
0.1
0.05
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

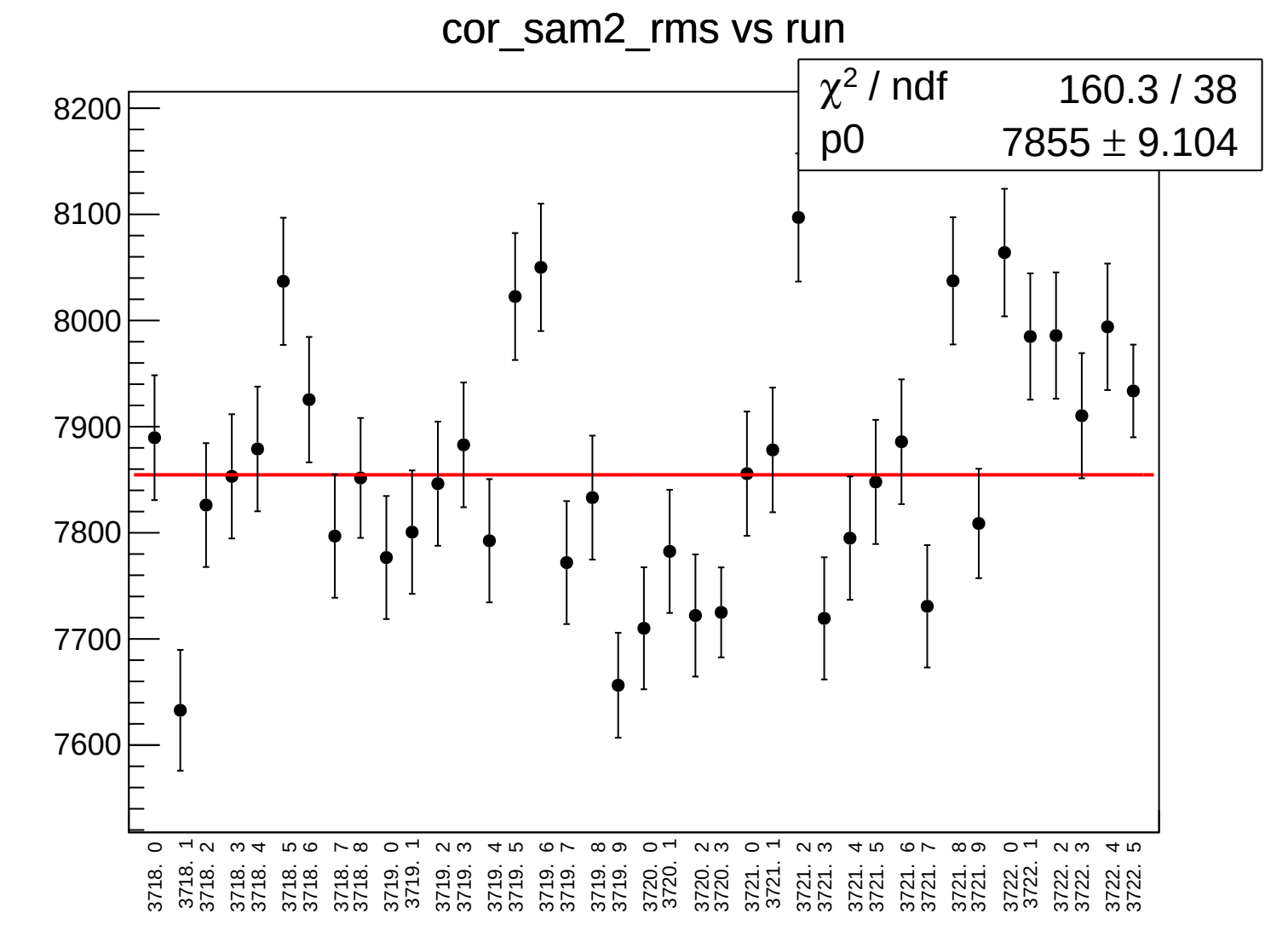

cor_sam1_mean vs run
χ² / ndf 20.38 / 38
p0 −1856 ± 2545
40000
20000
0
−20000
−40000
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −418.5
Std Dev 437.7
1.5
1
0.5
0
−0.5
−1
−1.5

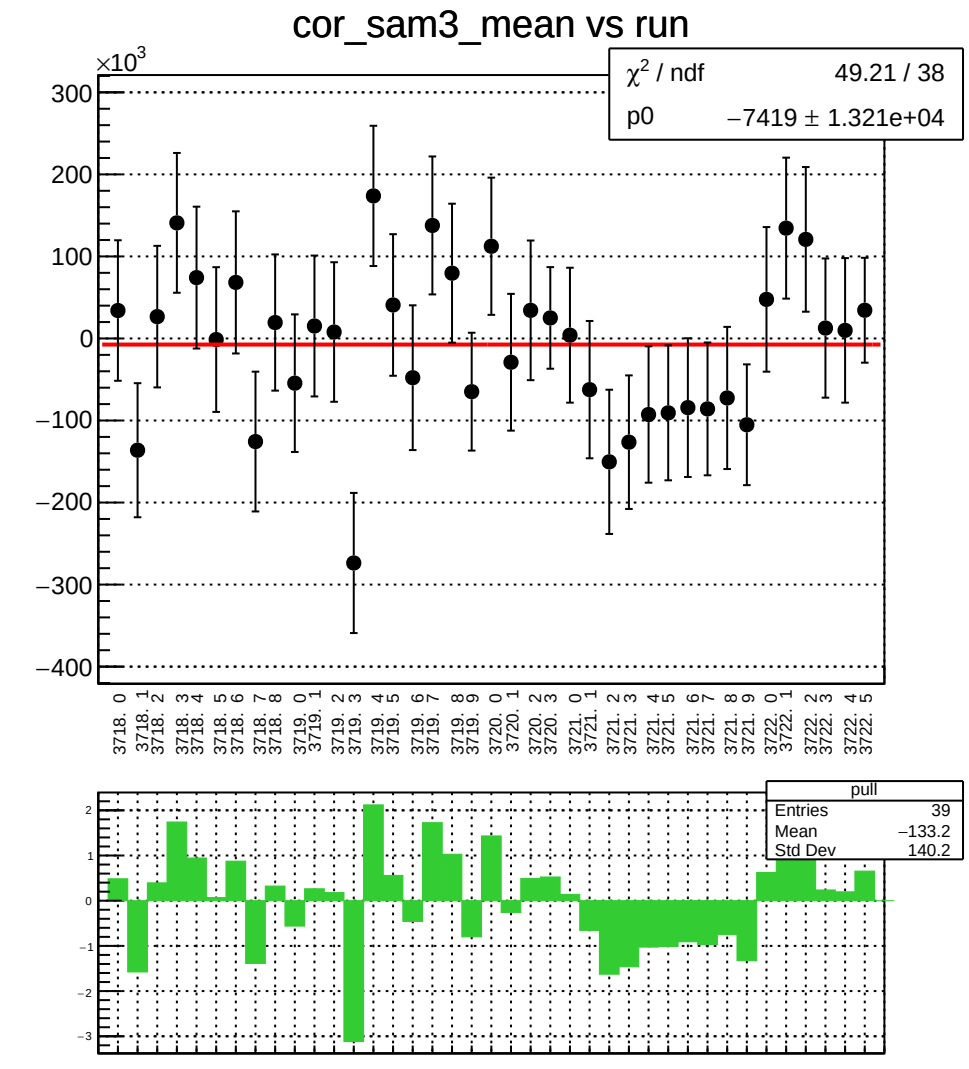

pull1D
Entries 39
Mean 0.004461
Std Dev 0.7229
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

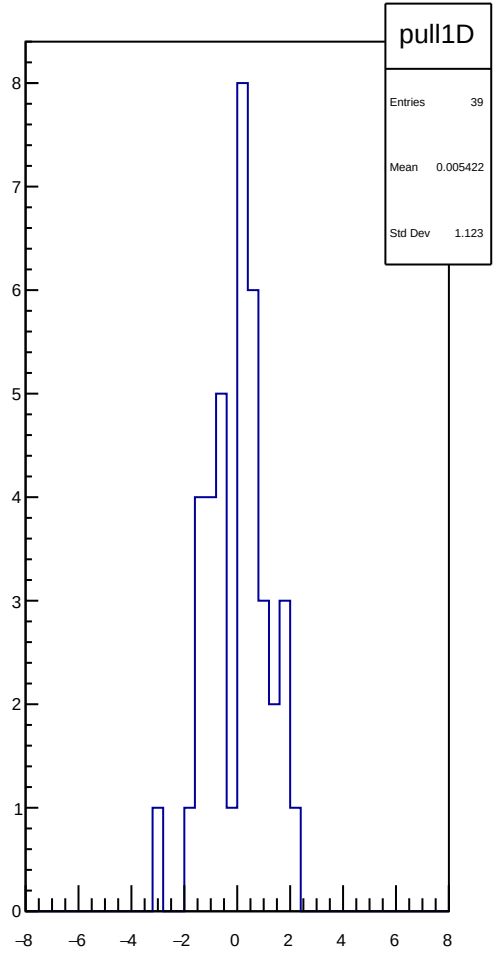

cor_sam1_rms vs run
χ² / ndf 2274 / 38
p0 1550 ± 1.799
1700
1650
1600
1550
1500
1450
1400
1350
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

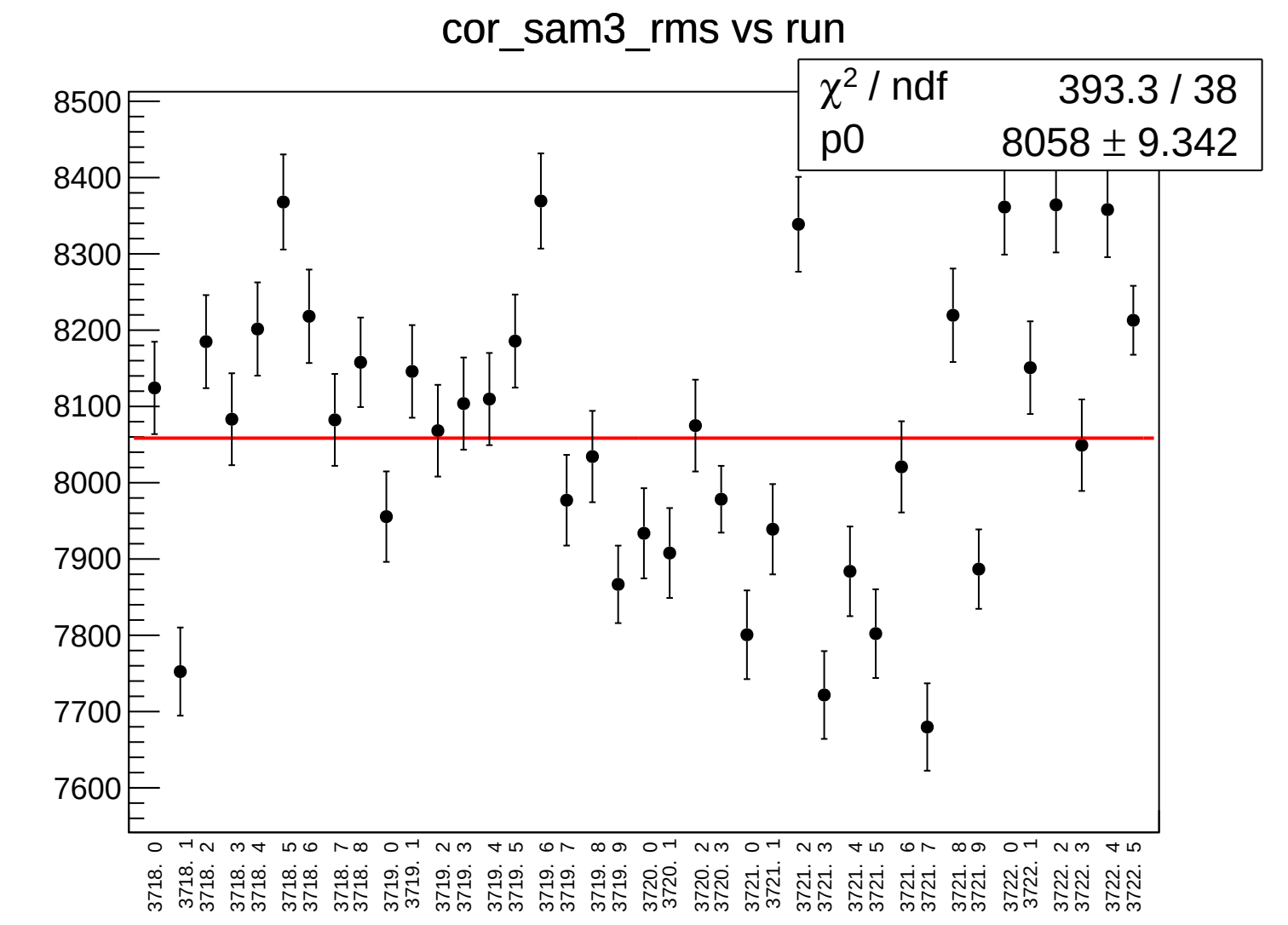

cor_sam2_mean vs run
×10^3
χ² / ndf 48.64 / 38
p0 −7529 ± 1.288e+04
300
200
100
0
−100
−200
−300
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 3294
Std Dev 3283
2
1
0
−1
−2
−3

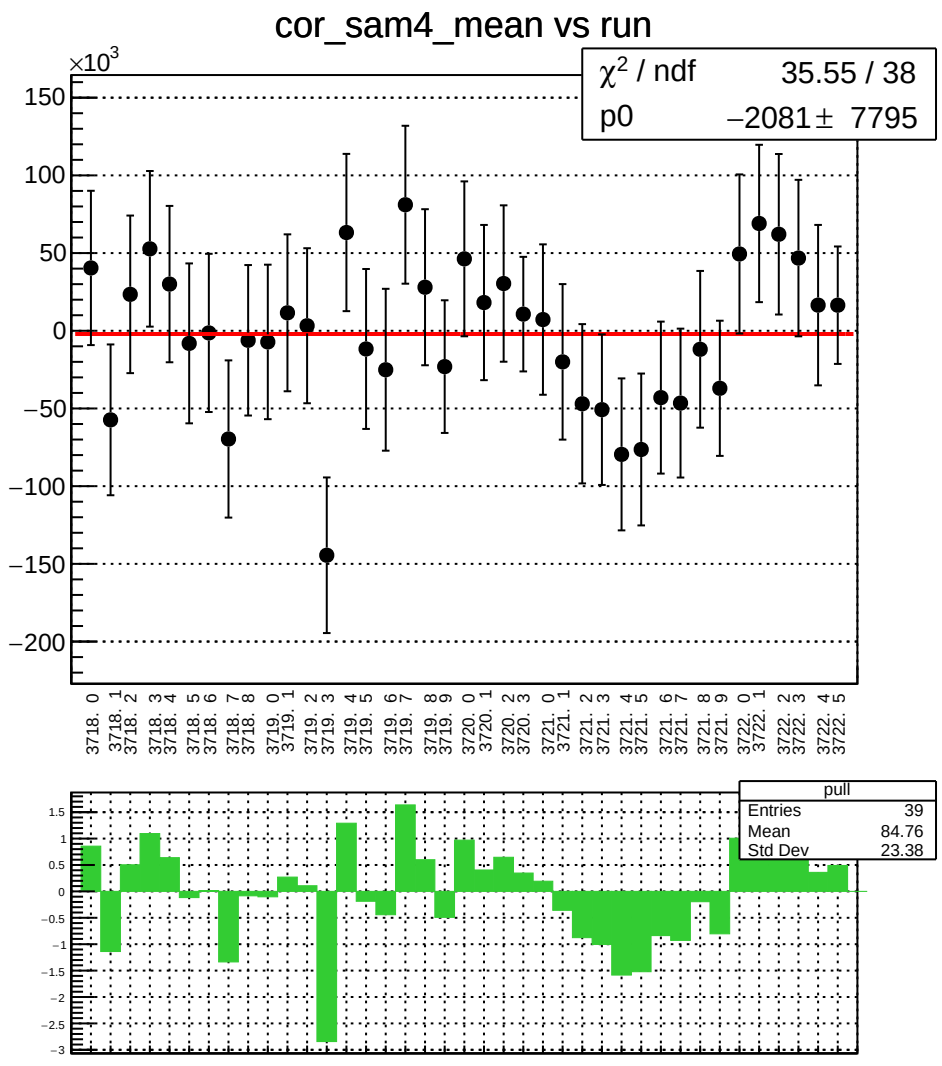

pull1D
Entries 39
Mean −0.0004362
Std Dev 1.117
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

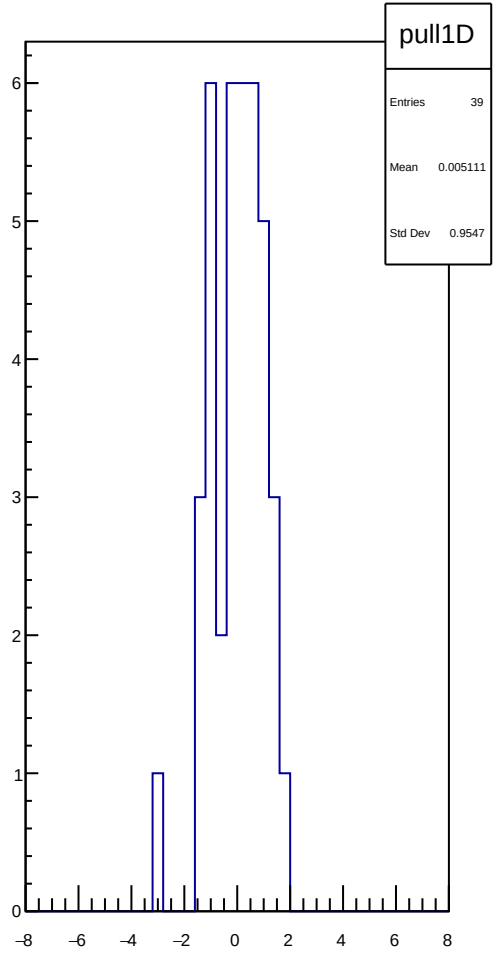

cor_sam2_rms vs run
χ² / ndf 160.3 / 38
p0 7855 ± 9.104
8200
8100
8000
7900
7800
7700
7600
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

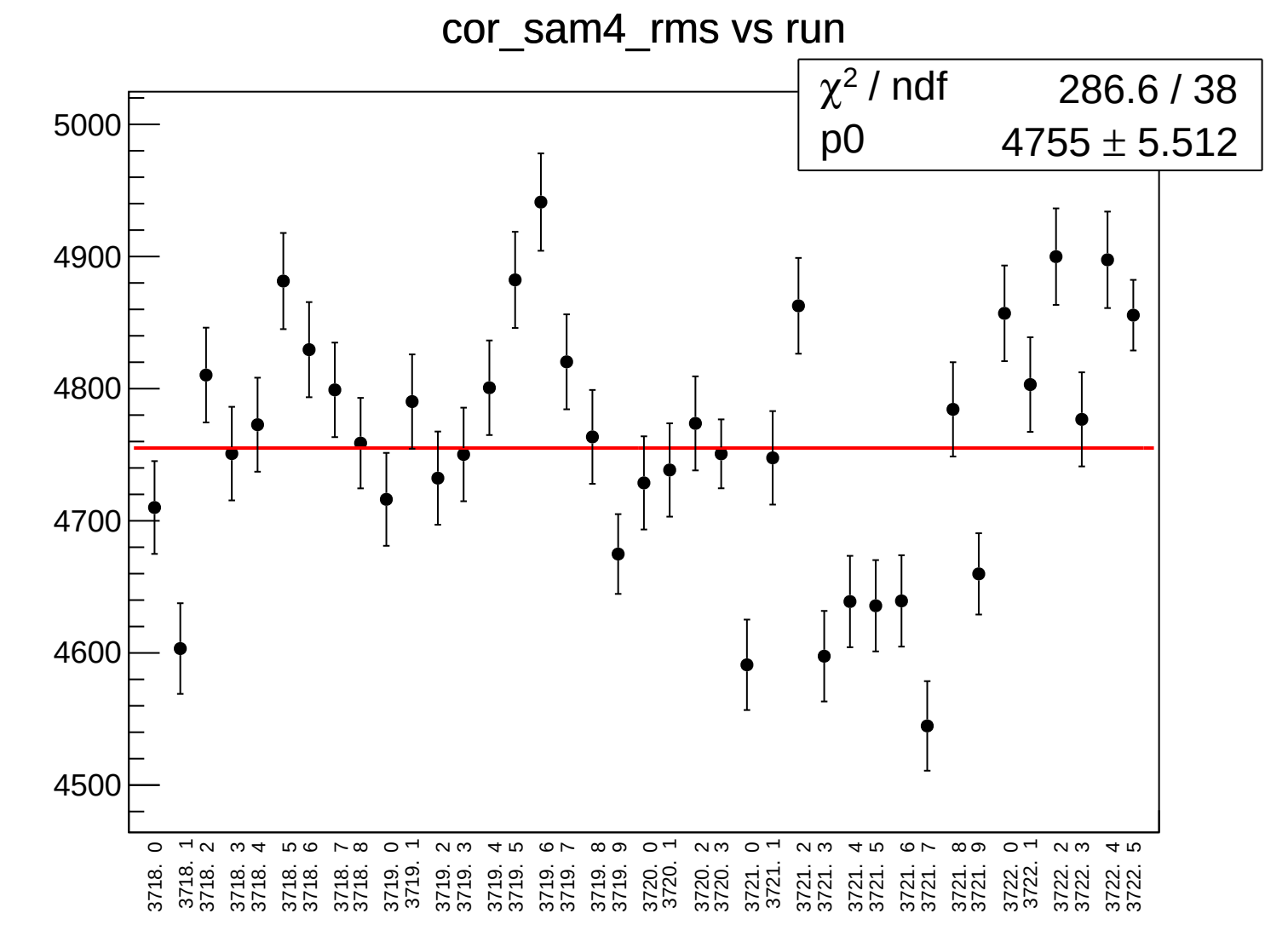

cor_sam3_mean vs run
×10^3
χ² / ndf 49.21 / 38
p0 −7419 ± 1.321e+04
300
200
100
0
−100
−200
−300
−400
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −133.2
Std Dev 140.2
2
1
0
−1
−2
−3

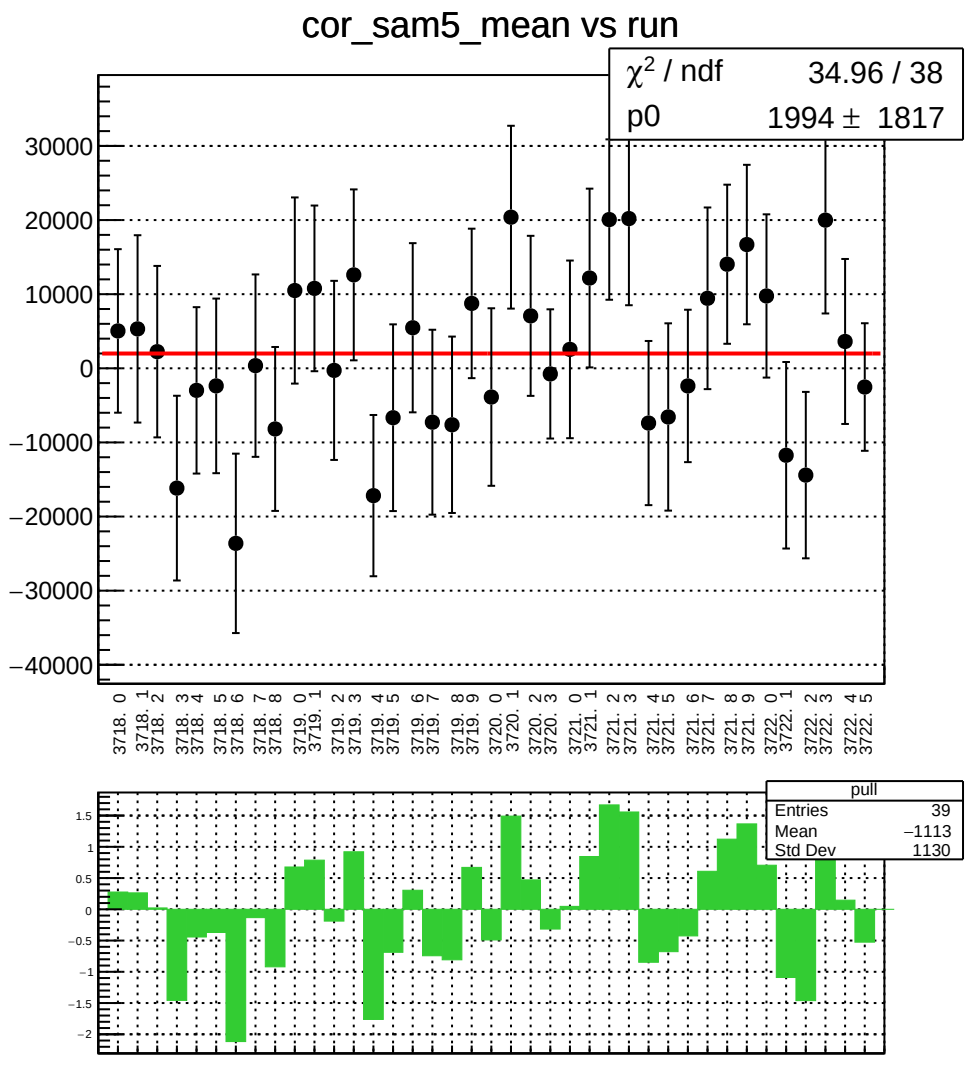

pull1D
Entries 39
Mean 0.005422
Std Dev 1.123
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

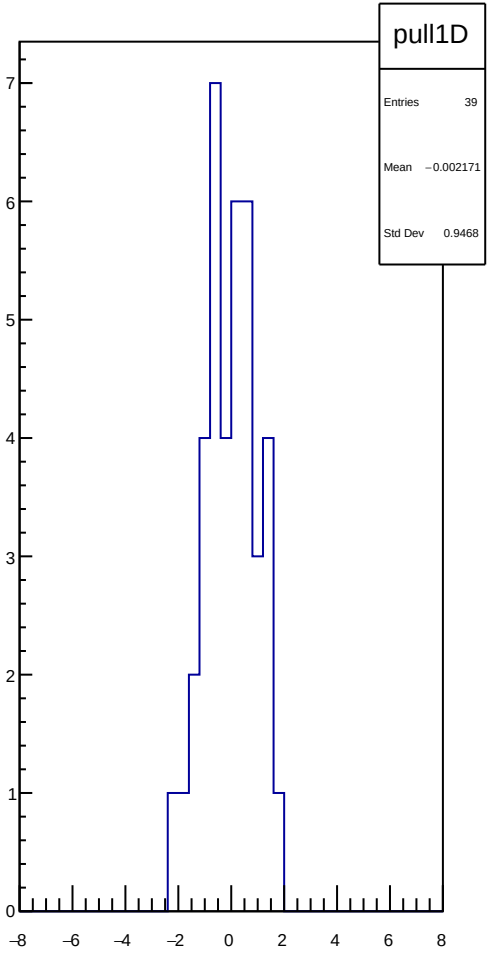

cor_sam3_rms vs run
χ² / ndf 393.3 / 38
p0 8058 ± 9.342
8500
8400
8300
8200
8100
8000
7900
7800
7700
7600
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

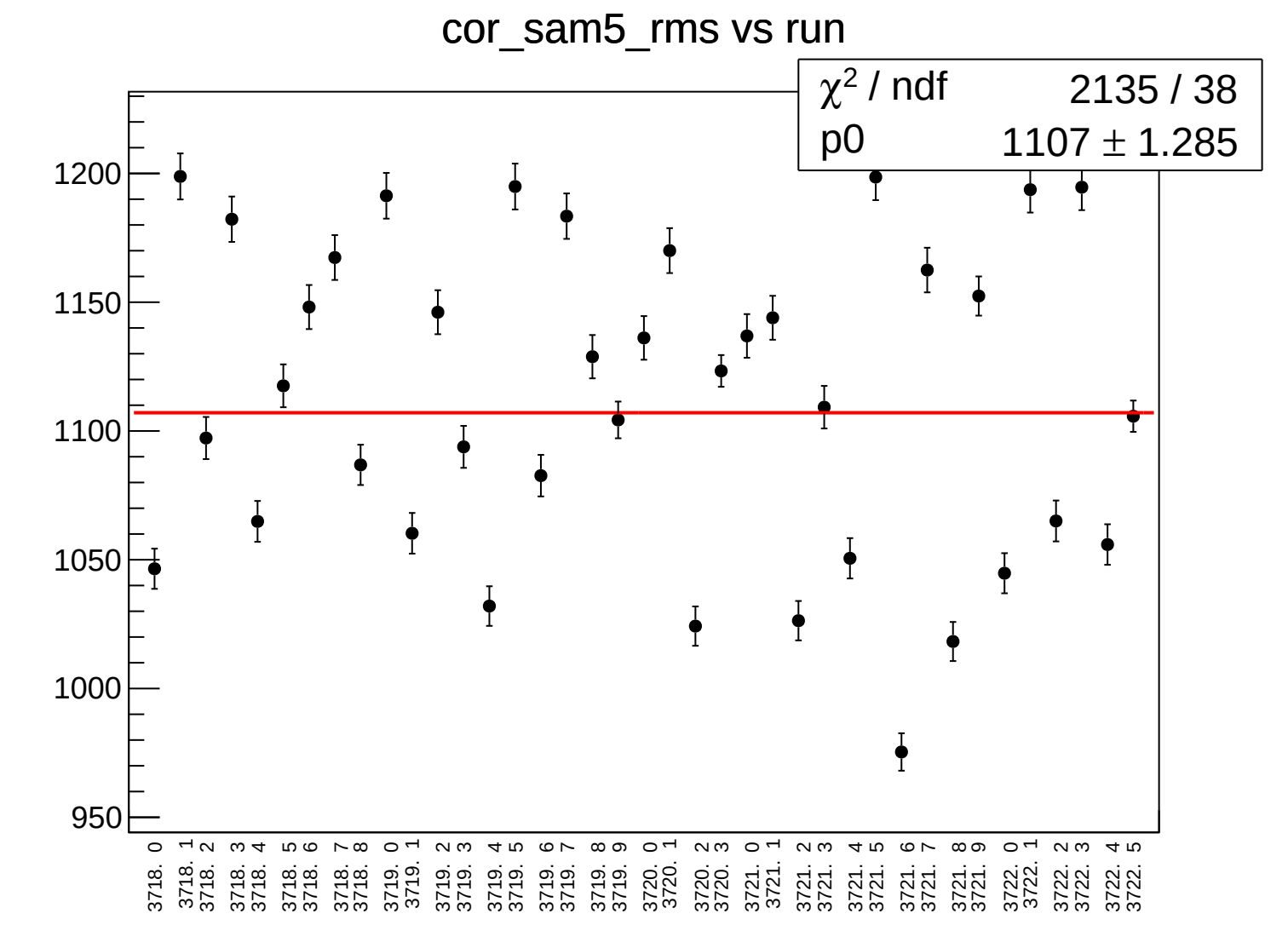

cor_sam4_mean vs run
×10^3
χ^2 / ndf 35.55 / 38
p0 −2081 ± 7795
150
100
50
0
−50
−100
−150
−200
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 84.76
Std Dev 23.38
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

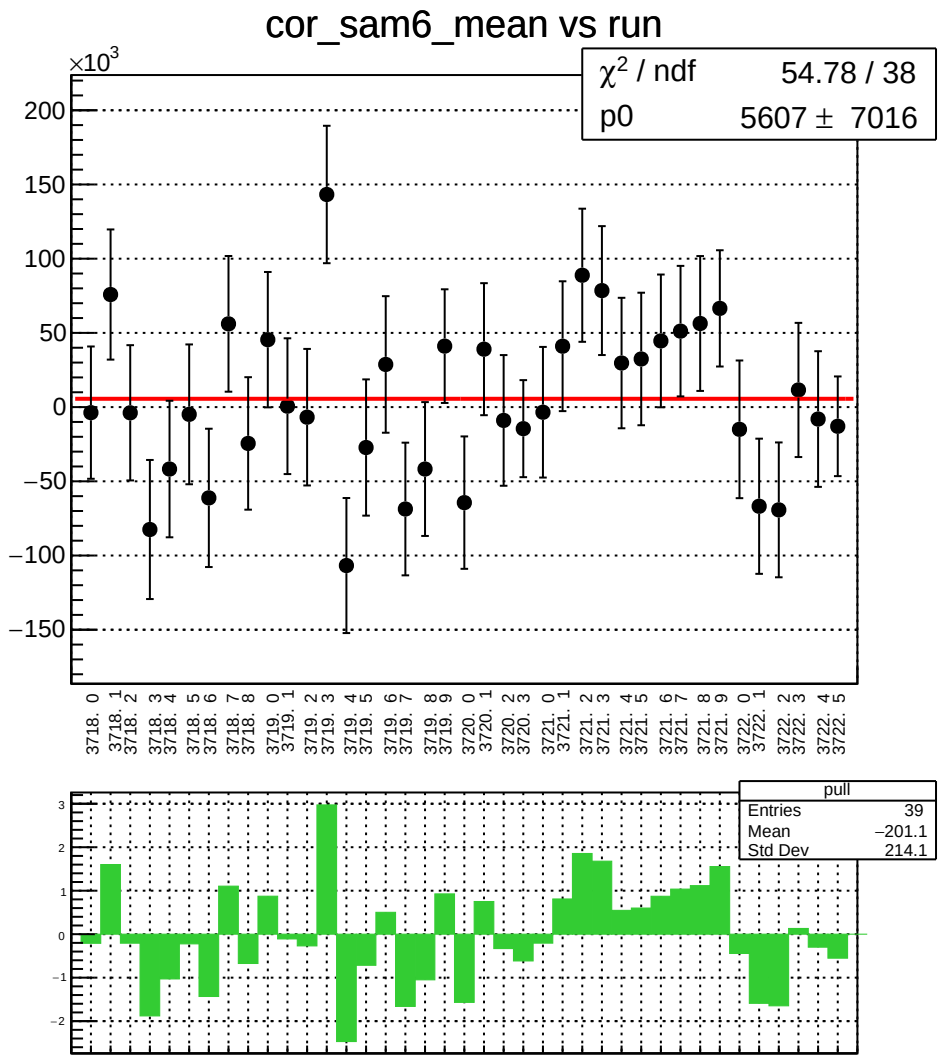

pull1D
Entries 39
Mean 0.005111
Std Dev 0.9547
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

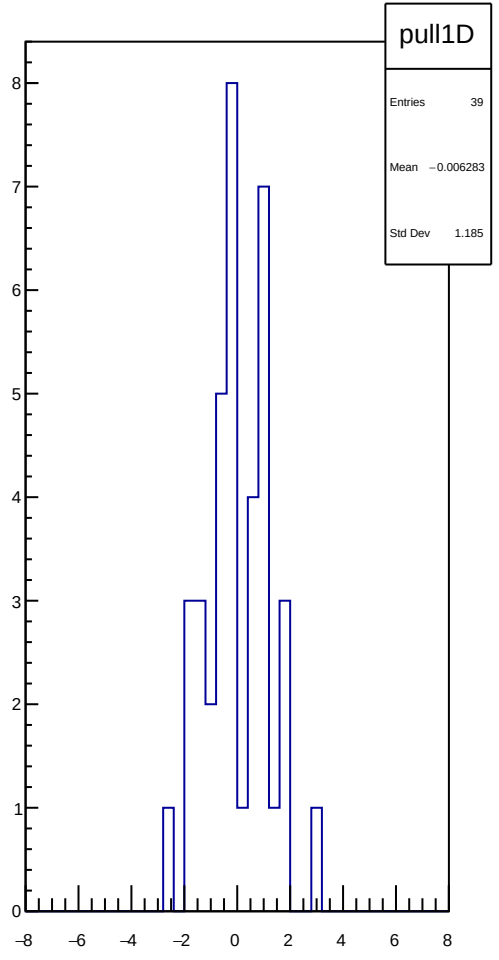

cor_sam4_rms vs run
χ² / ndf 286.6 / 38
p0 4755 ± 5.512
5000
4900
4800
4700
4600
4500
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

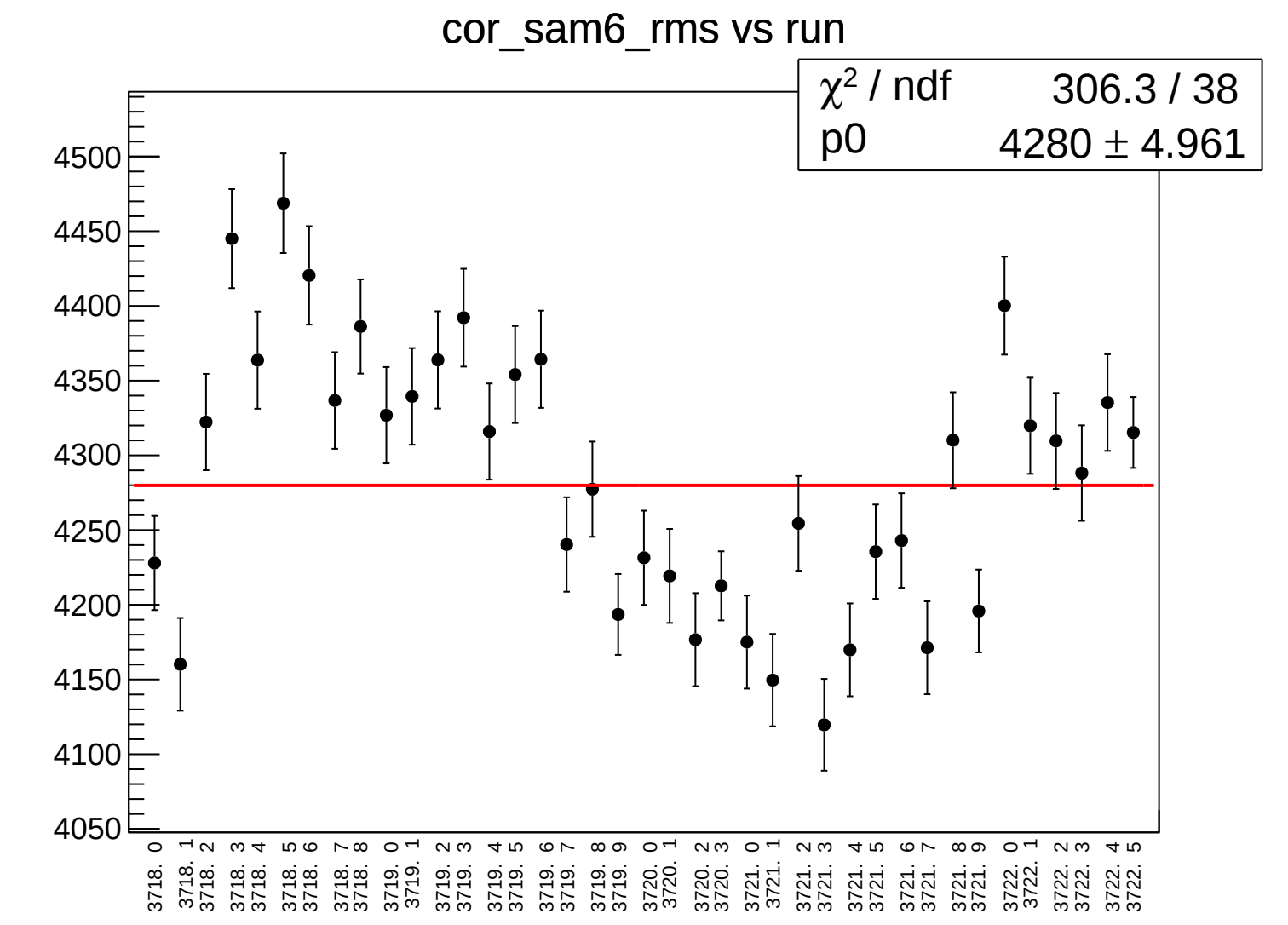

cor_sam5_mean vs run
χ² / ndf 34.96 / 38
p0 1994 ± 1817
30000
20000
10000
0
−10000
−20000
−30000
−40000
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −1113
Std Dev 1130
1.5
1
0.5
0
−0.5
−1
−1.5
−2

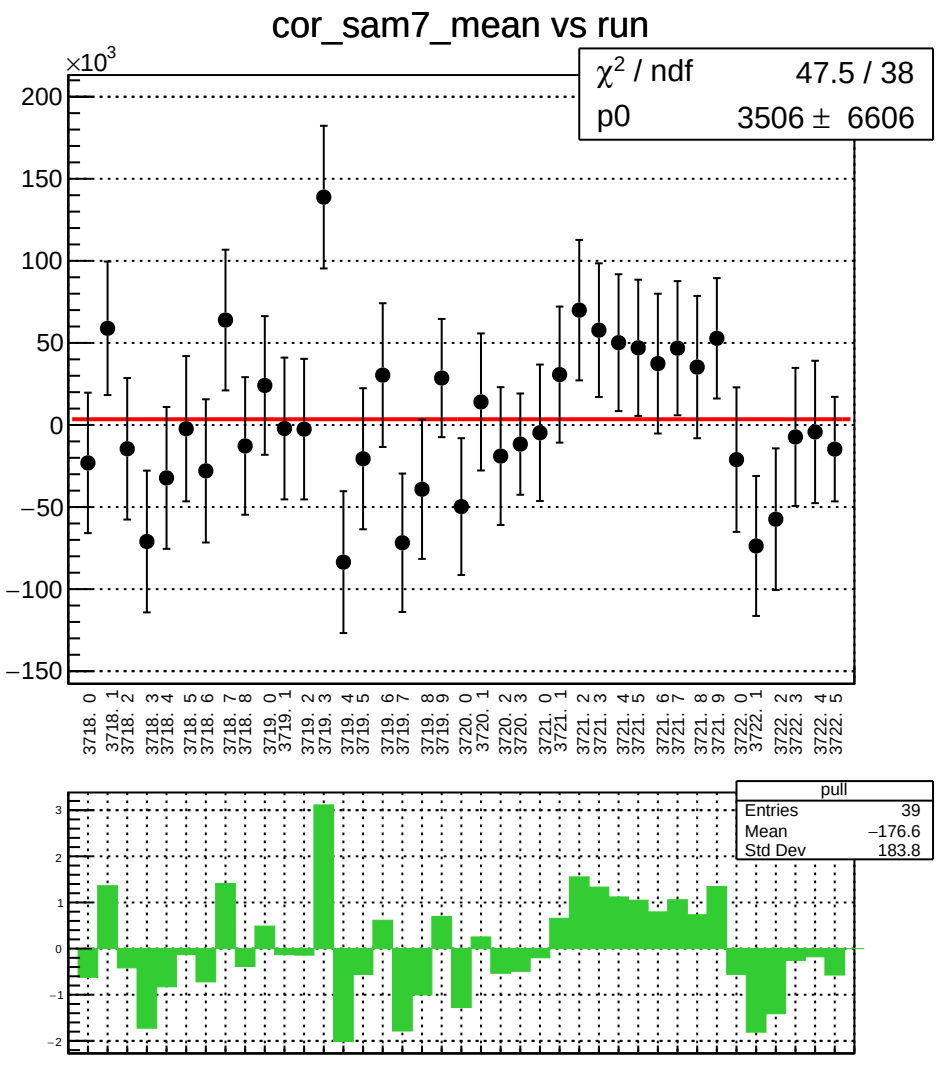

pull1D
Entries 39
Mean −0.002171
Std Dev 0.9468
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

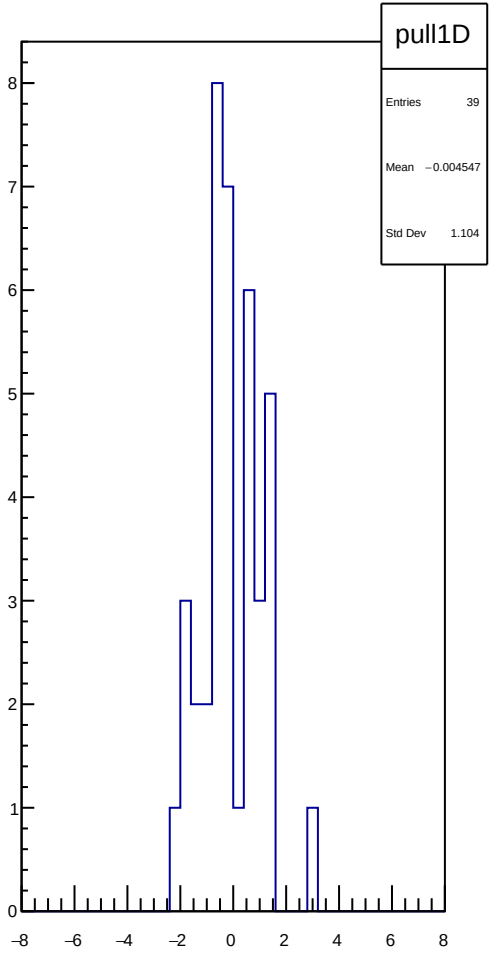

cor_sam5_rms vs run
χ² / ndf 2135 / 38
p0 1107 ± 1.285
1200
1150
1100
1050
1000
950
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

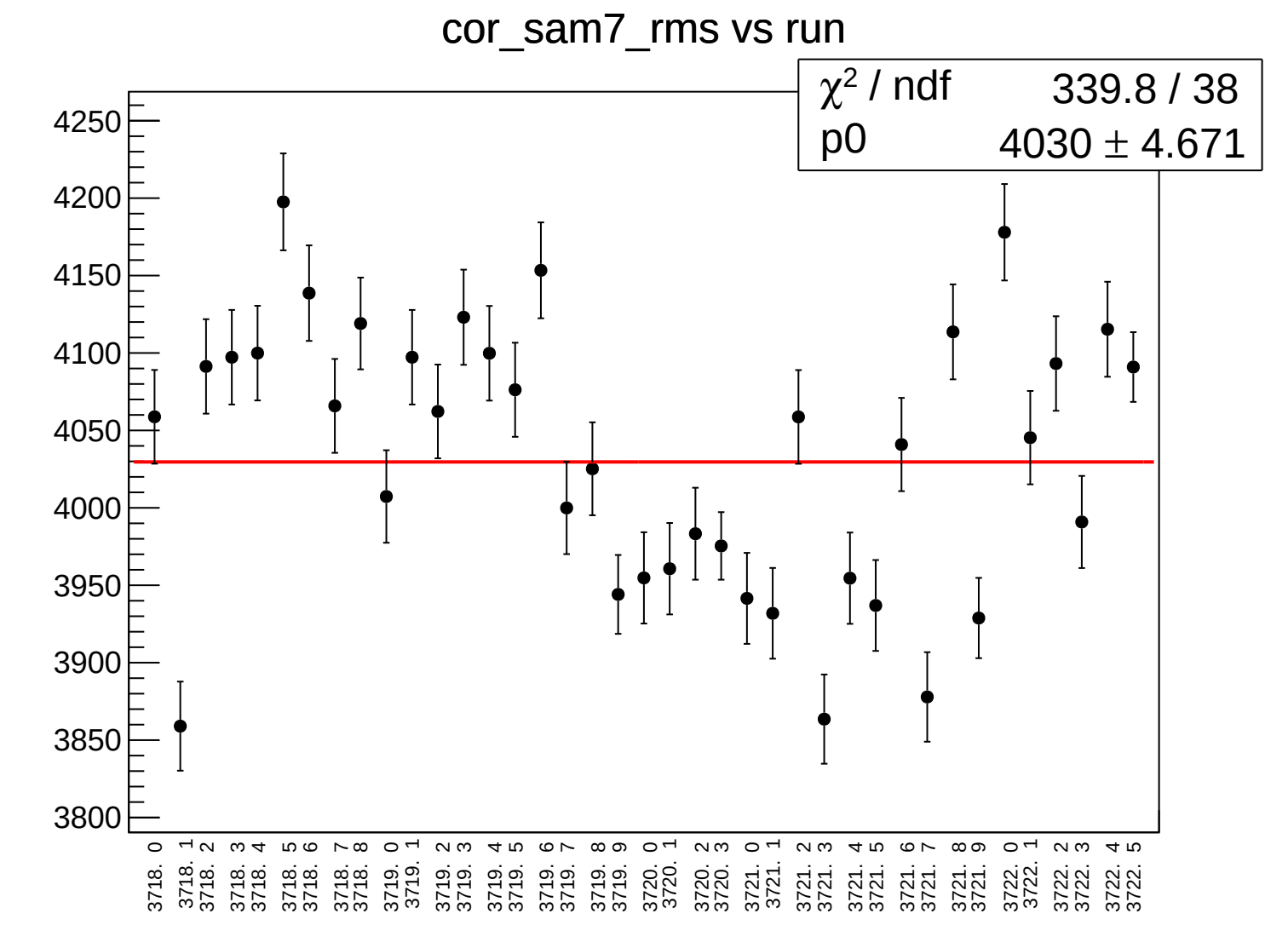

cor_sam6_mean vs run
×10^3
χ^2 / ndf 54.78 / 38
p0 5607 ± 7016
200
150
100
50
0
−50
−100
−150
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −201.1
Std Dev 214.1
3
2
1
0
−1
−2

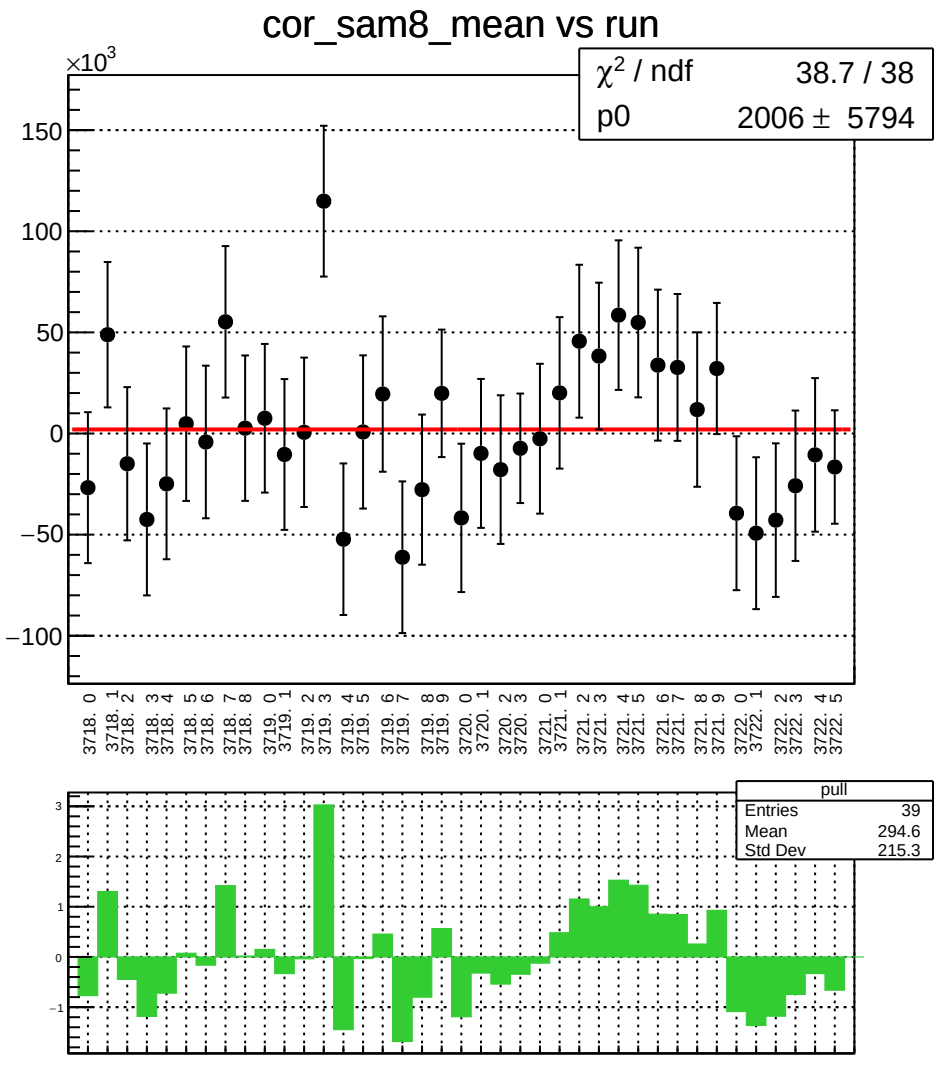

pull1D
Entries 39
Mean −0.006283
Std Dev 1.185
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

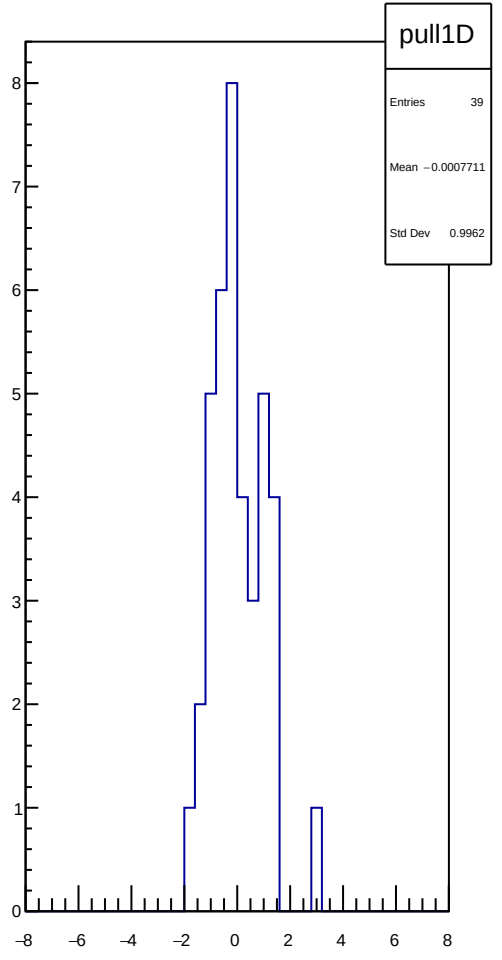

cor_sam6_rms vs run
χ² / ndf 306.3 / 38
p0 4280 ± 4.961
4500
4450
4400
4350
4300
4250
4200
4150
4100
4050
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

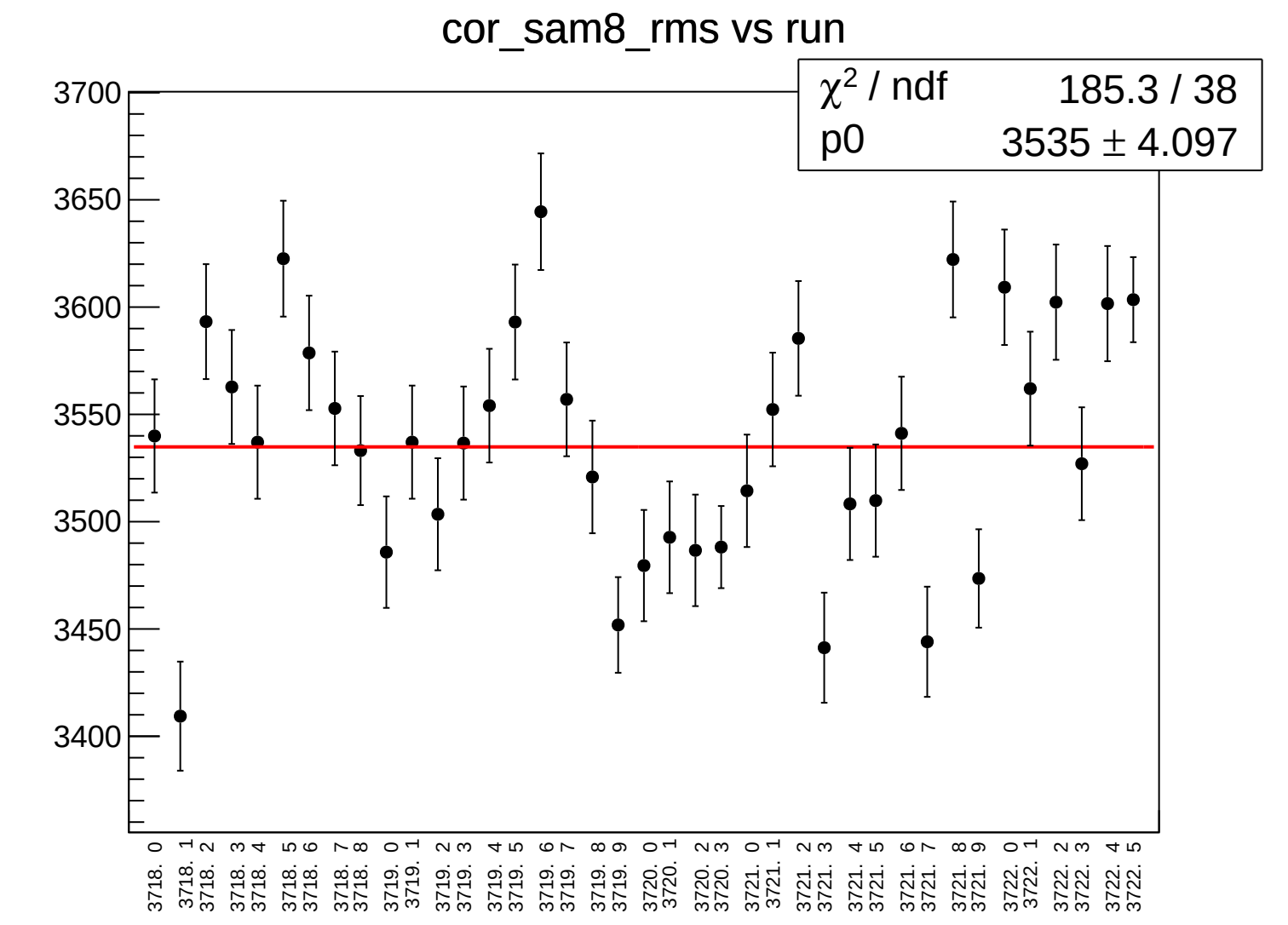

cor_sam7_mean vs run
×10^3
χ² / ndf 47.5 / 38
p0 3506 ± 6606
200
150
100
50
0
−50
−100
−150
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −176.6
Std Dev 183.8
3
2
1
0
−1
−2

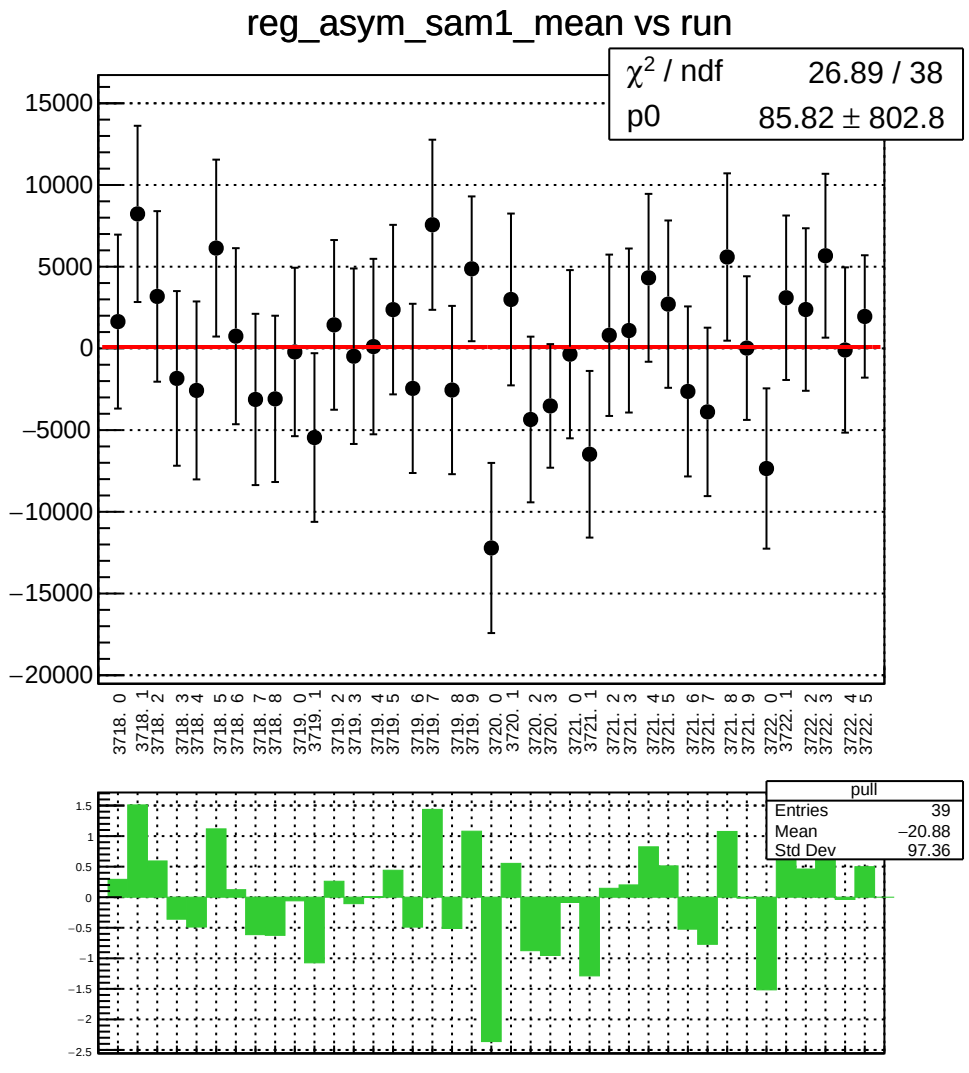

pull1D
Entries 39
Mean −0.004547
Std Dev 1.104
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

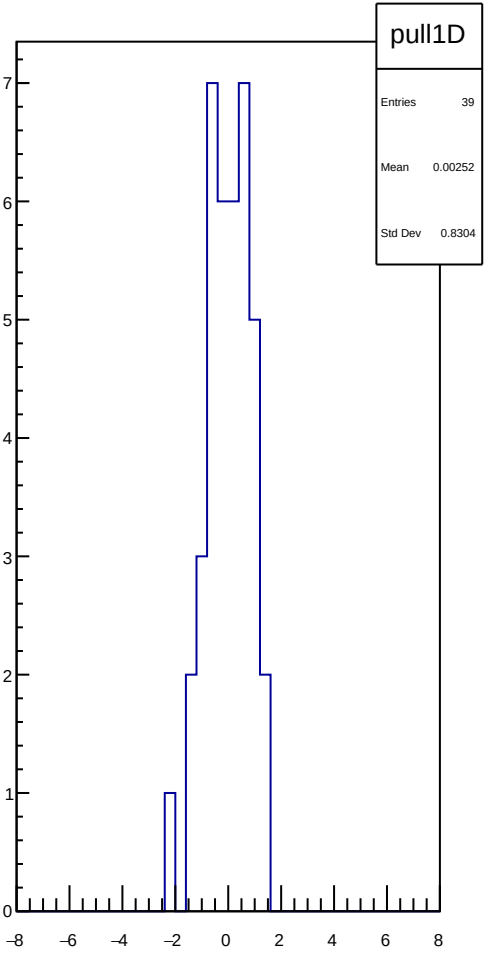

cor_sam7_rms vs run
χ² / ndf 339.8 / 38
p0 4030 ± 4.671
4250
4200
4150
4100
4050
4000
3950
3900
3850
3800
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

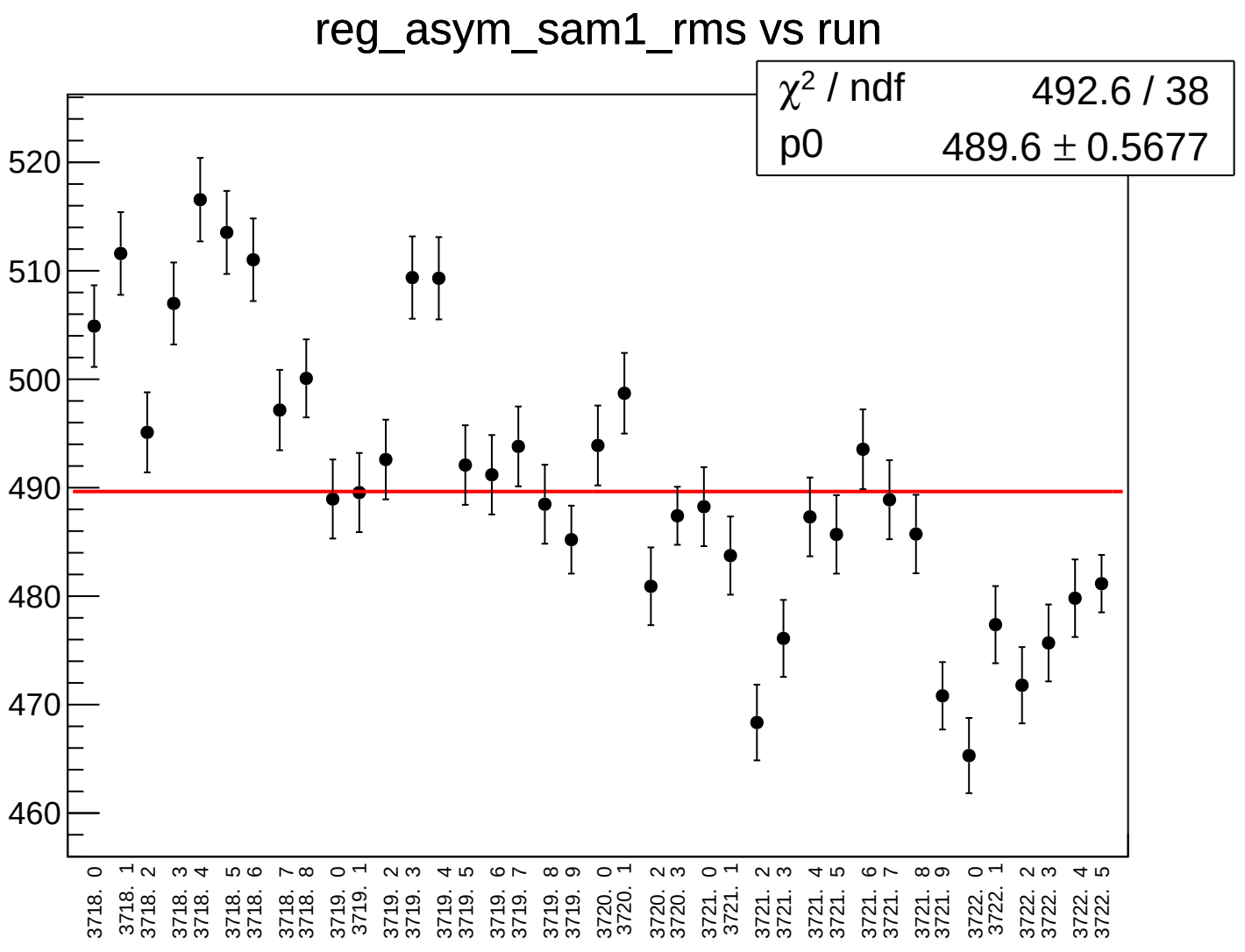

cor_sam8_mean vs run
×10^3
χ^2 / ndf 38.7 / 38
p0 2006 ± 5794
150
100
50
0
−50
−100
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 294.6
Std Dev 215.3
3
2
1
0
−1

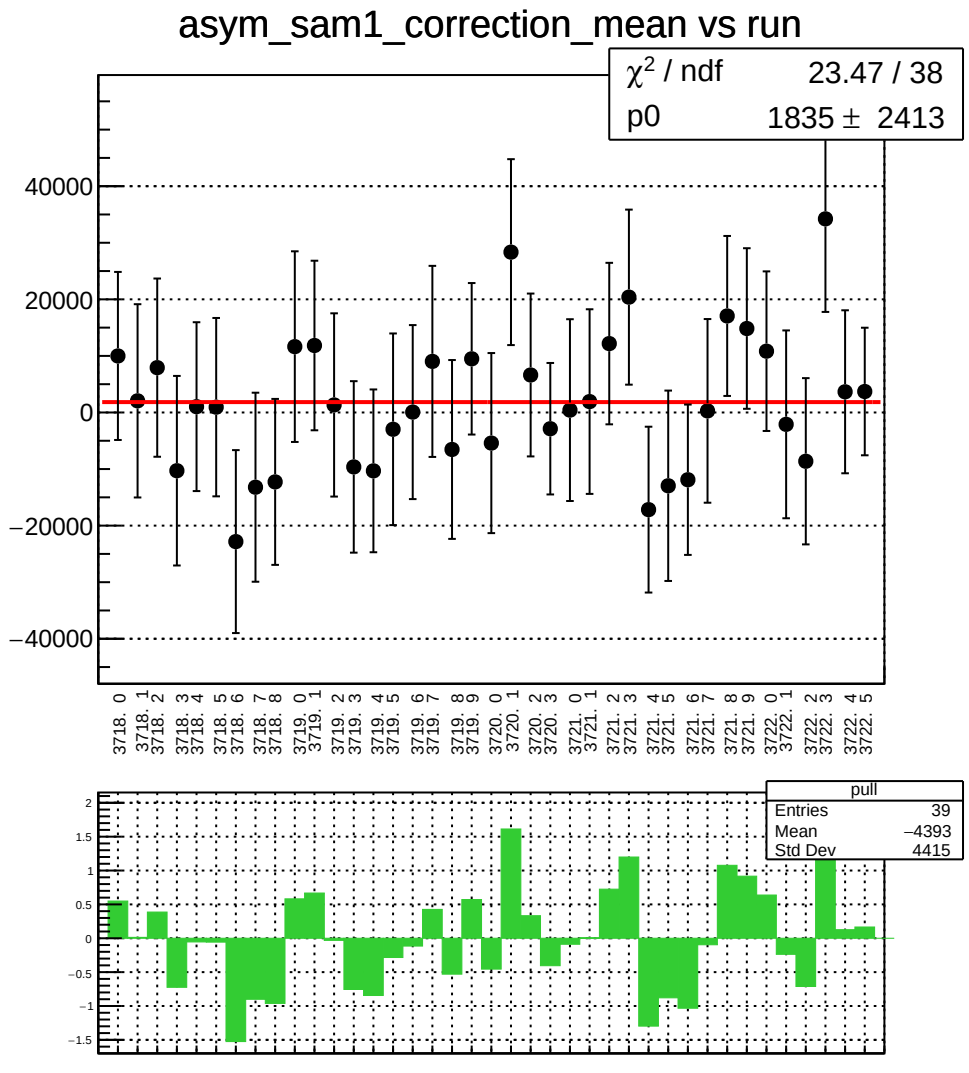

pull1D
Entries 39
Mean −0.0007711
Std Dev 0.9962
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

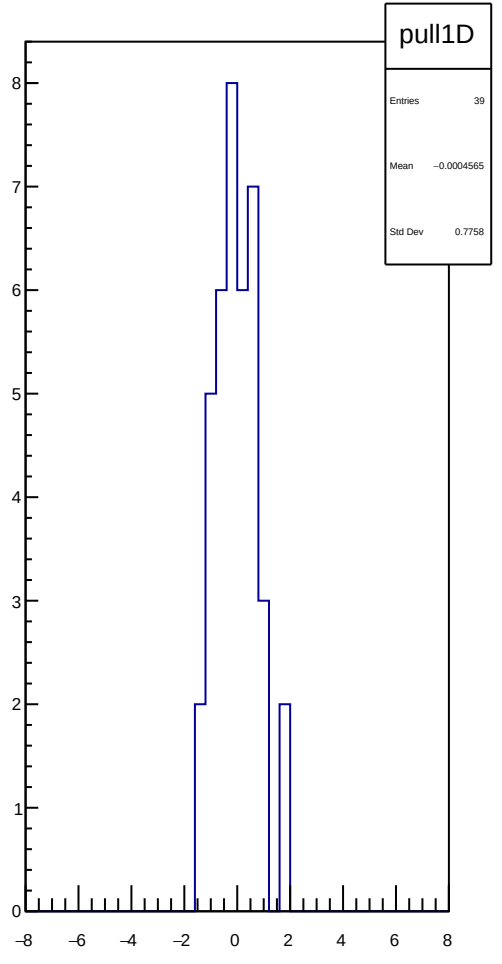

cor_sam8_rms vs run
χ² / ndf 185.3 / 38
p0 3535 ± 4.097
3700
3650
3600
3550
3500
3450
3400
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

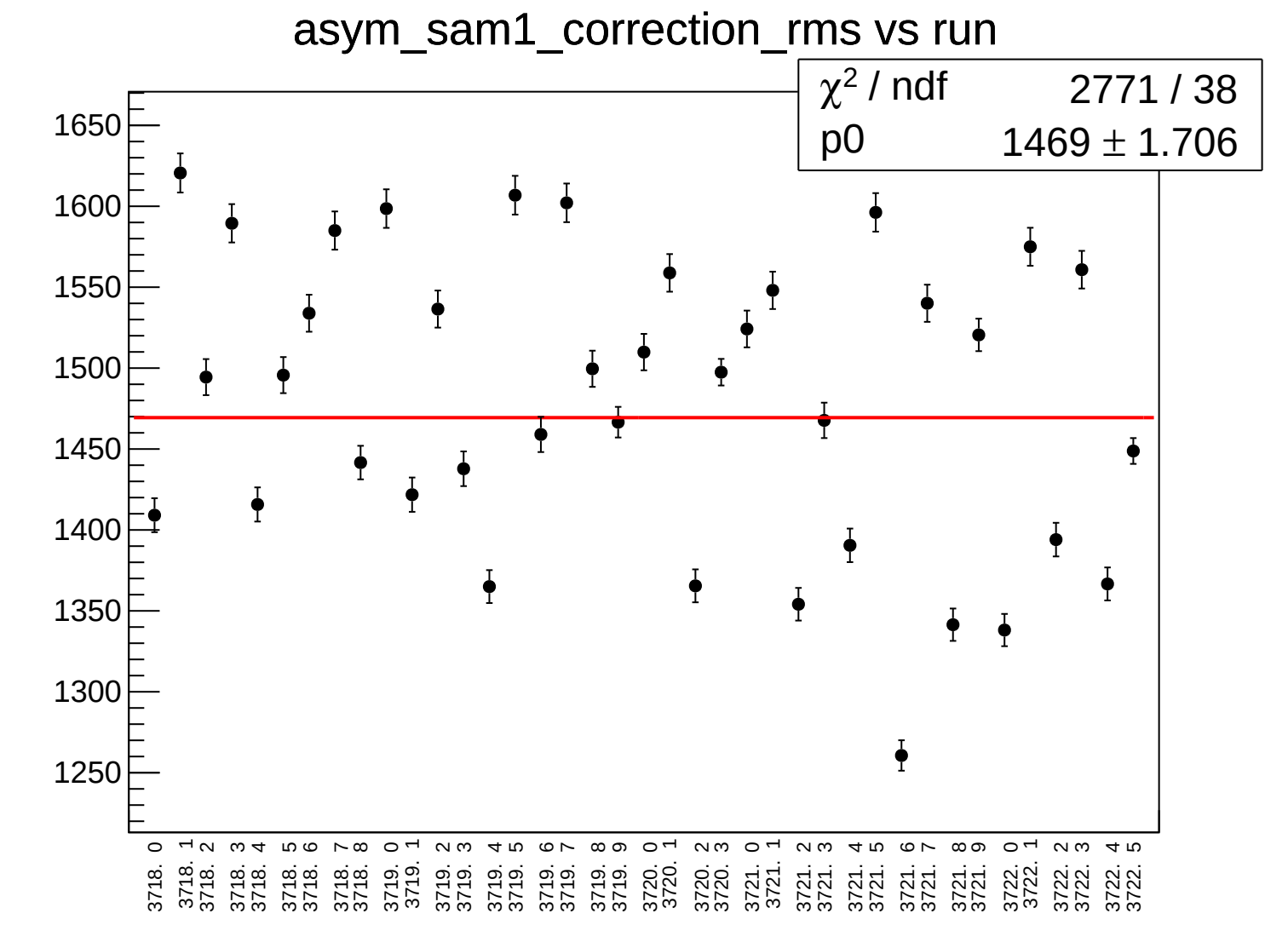

reg_asym_sam1_mean vs run
χ² / ndf 26.89 / 38
p0 85.82 ± 802.8
15000
10000
5000
0
−5000
−10000
−15000
−20000
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −20.88
Std Dev 97.36
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

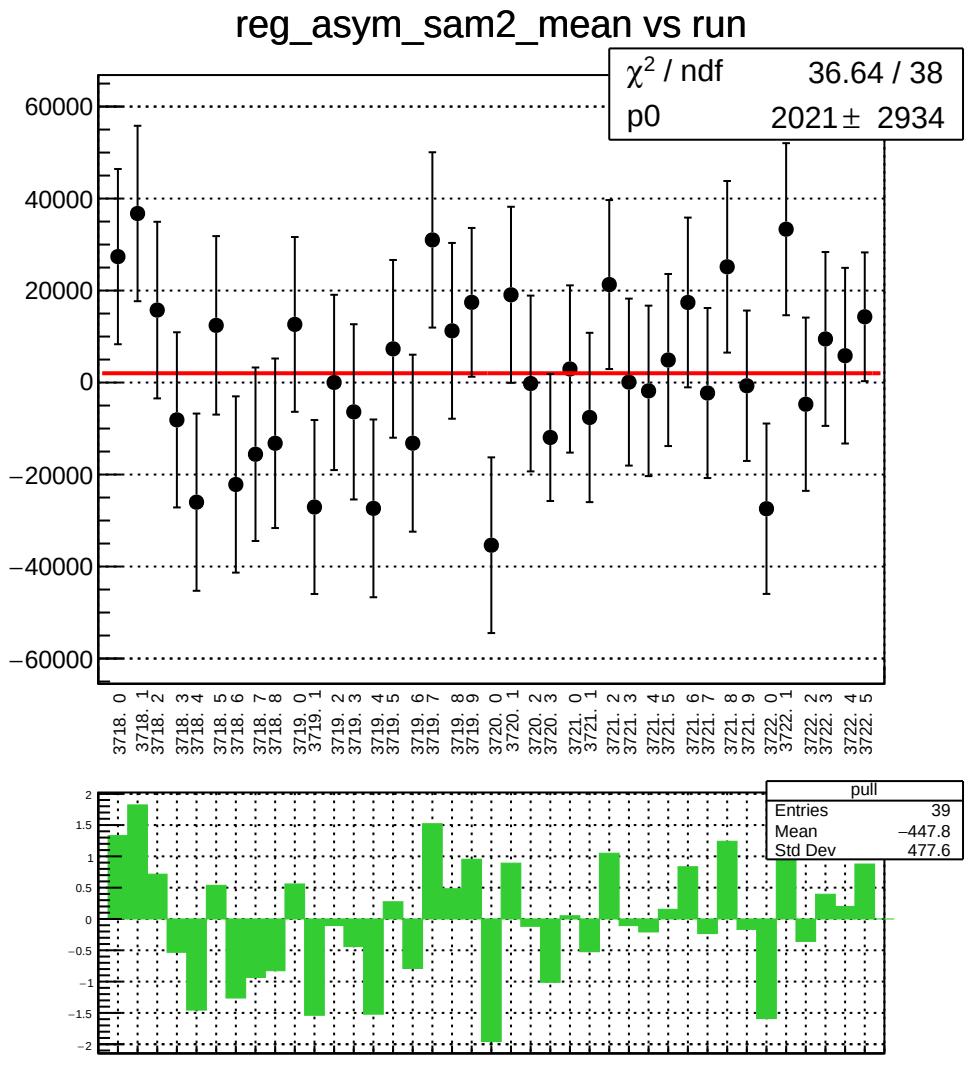

pull1D
Entries 39
Mean 0.00252
Std Dev 0.8304
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

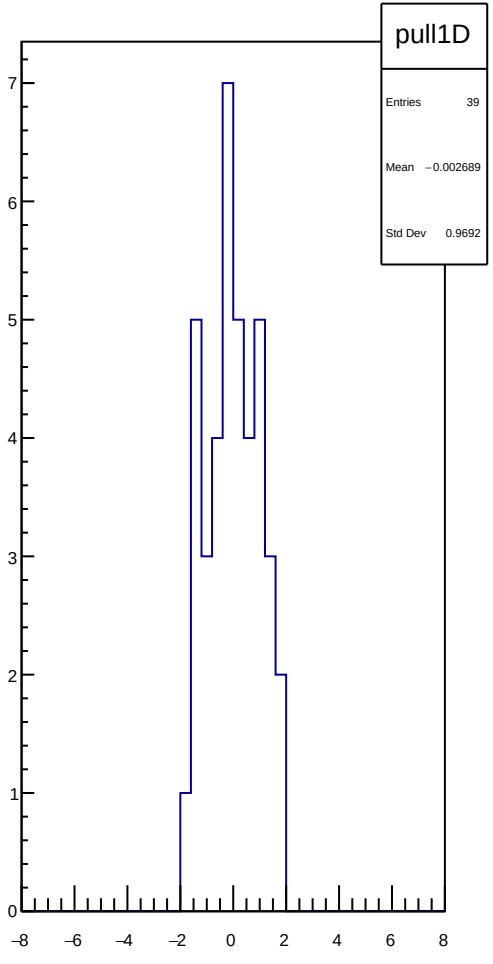

reg_asym_sam1_rms vs run
χ² / ndf 492.6 / 38
p0 489.6 ± 0.5677
520
510
500
490
480
470
460
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

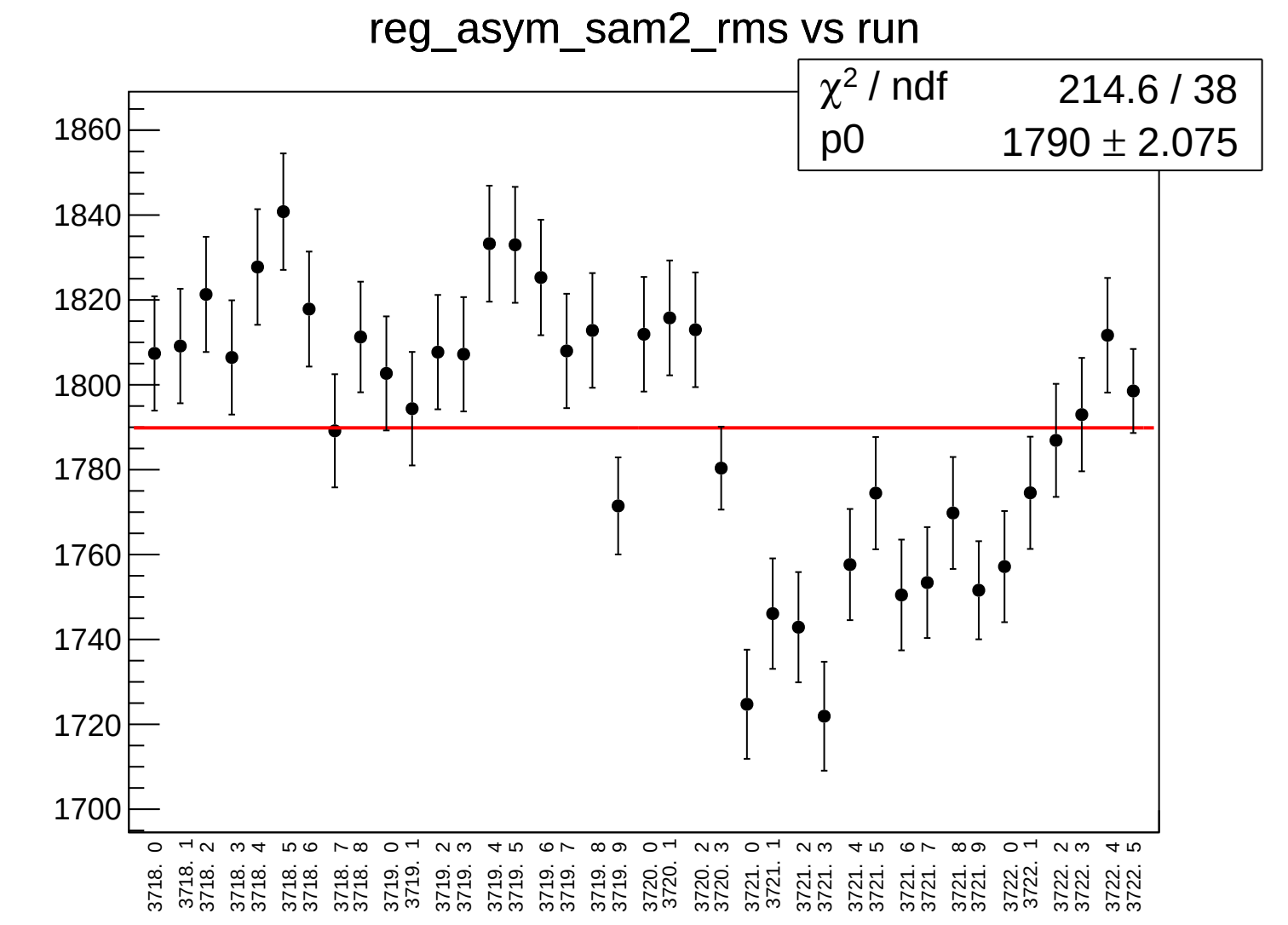

asym_sam1_correction_mean vs run
χ² / ndf 23.47 / 38
p0 1835 ± 2413
40000
20000
0
−20000
−40000
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −4393
Std Dev 4415
2
1.5
1
0.5
0
−0.5
−1
−1.5

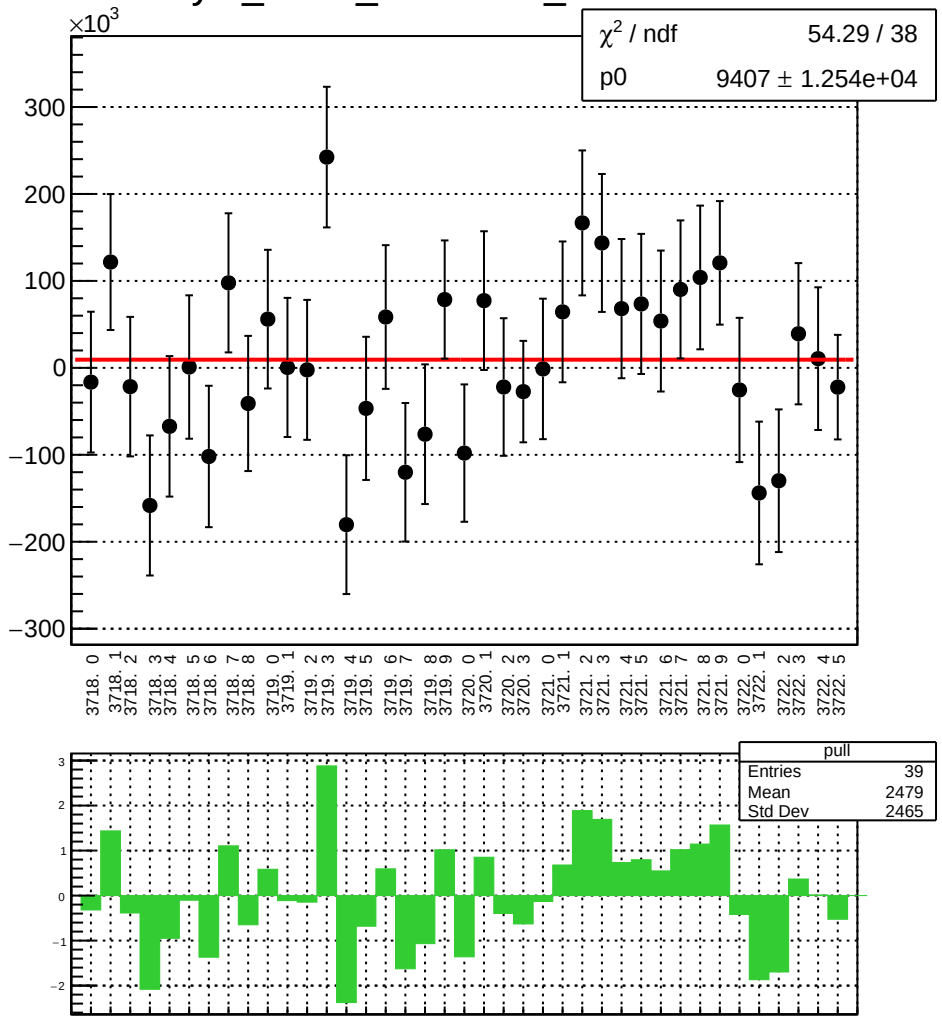

pull1D
Entries 39
Mean −0.0004565
Std Dev 0.7758
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

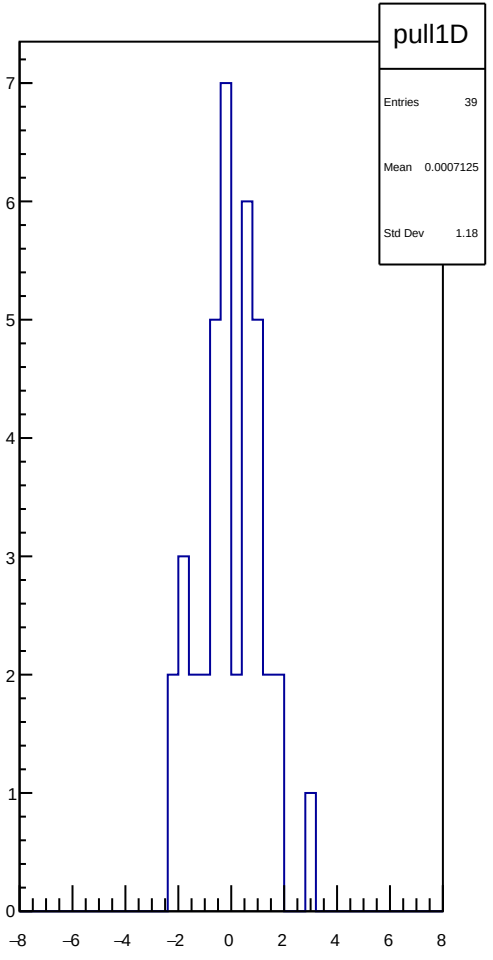

asym_sam1_correction_rms vs run
χ² / ndf 2771 / 38
p0 1469 ± 1.706
1650
1600
1550
1500
1450
1400
1350
1300
1250
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

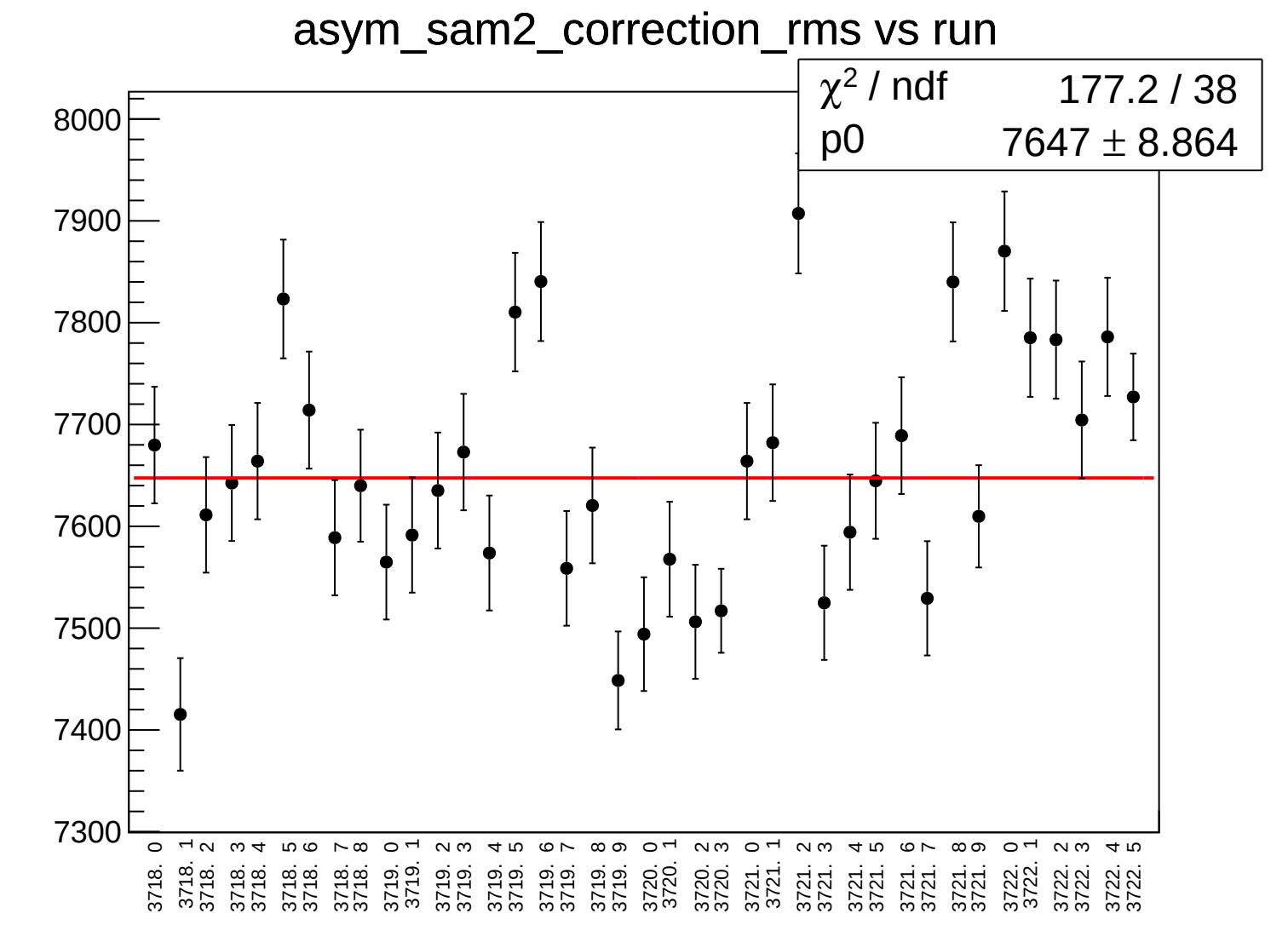

reg_asym_sam2_mean vs run
χ² / ndf 36.64 / 38
p0 2021 ± 2934
60000
40000
20000
0
−20000
−40000
−60000
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −447.8
Std Dev 477.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

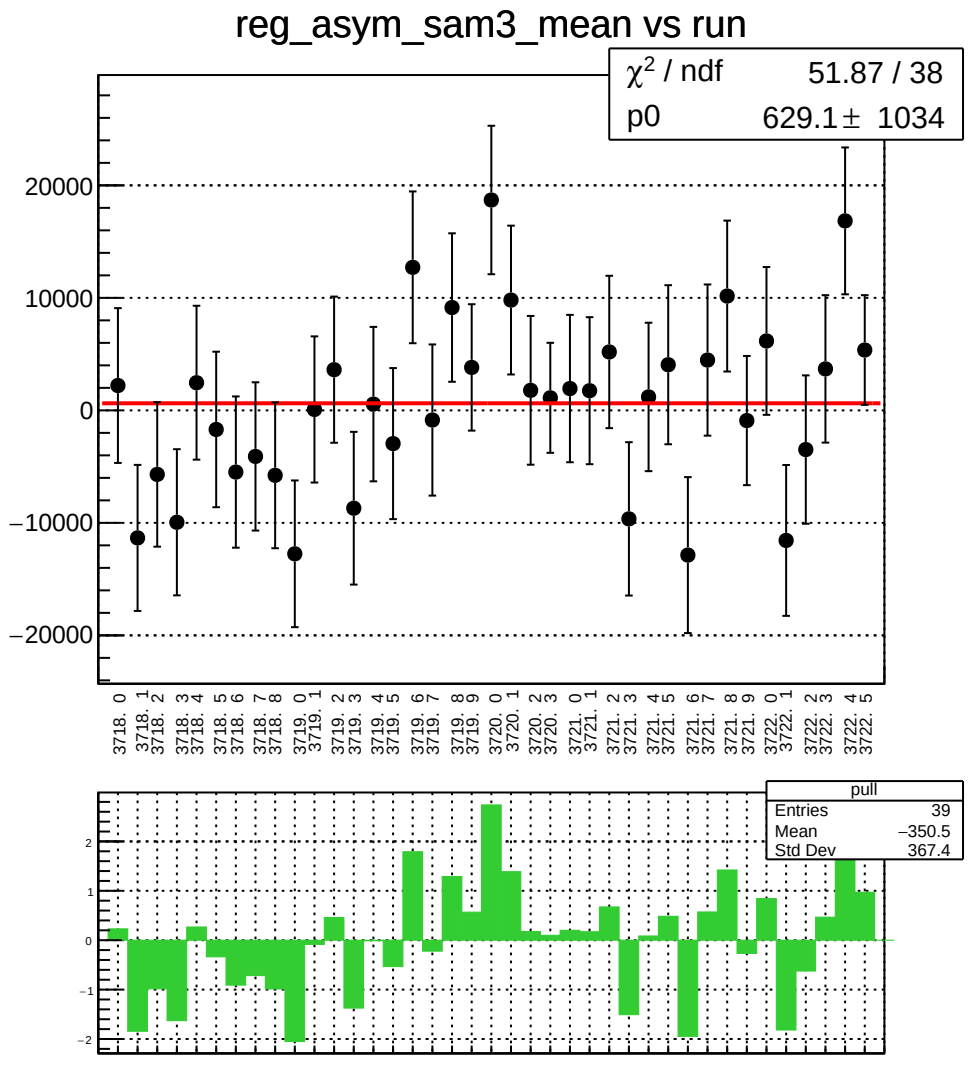

pull1D
Entries 39
Mean −0.002689
Std Dev 0.9692
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

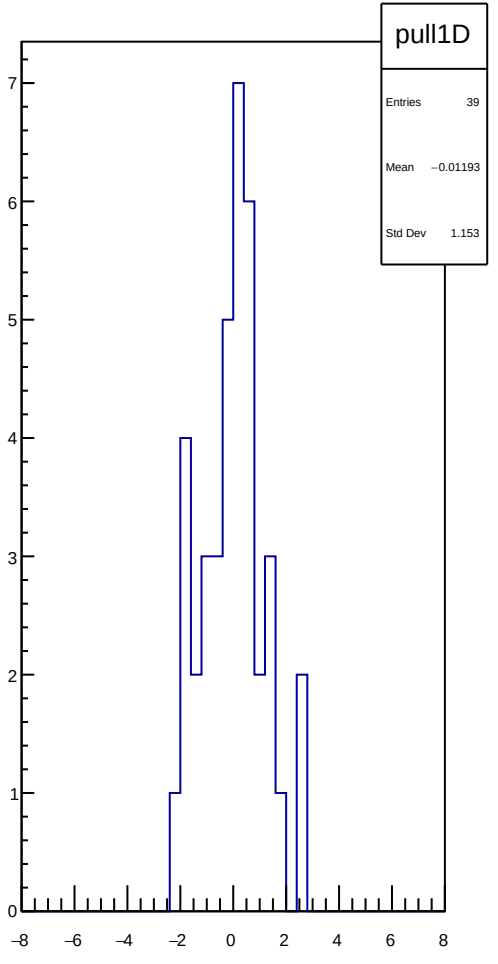

reg_asym_sam2_rms vs run
χ² / ndf 214.6 / 38
p0 1790 ± 2.075
1860
1840
1820
1800
1780
1760
1740
1720
1700
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

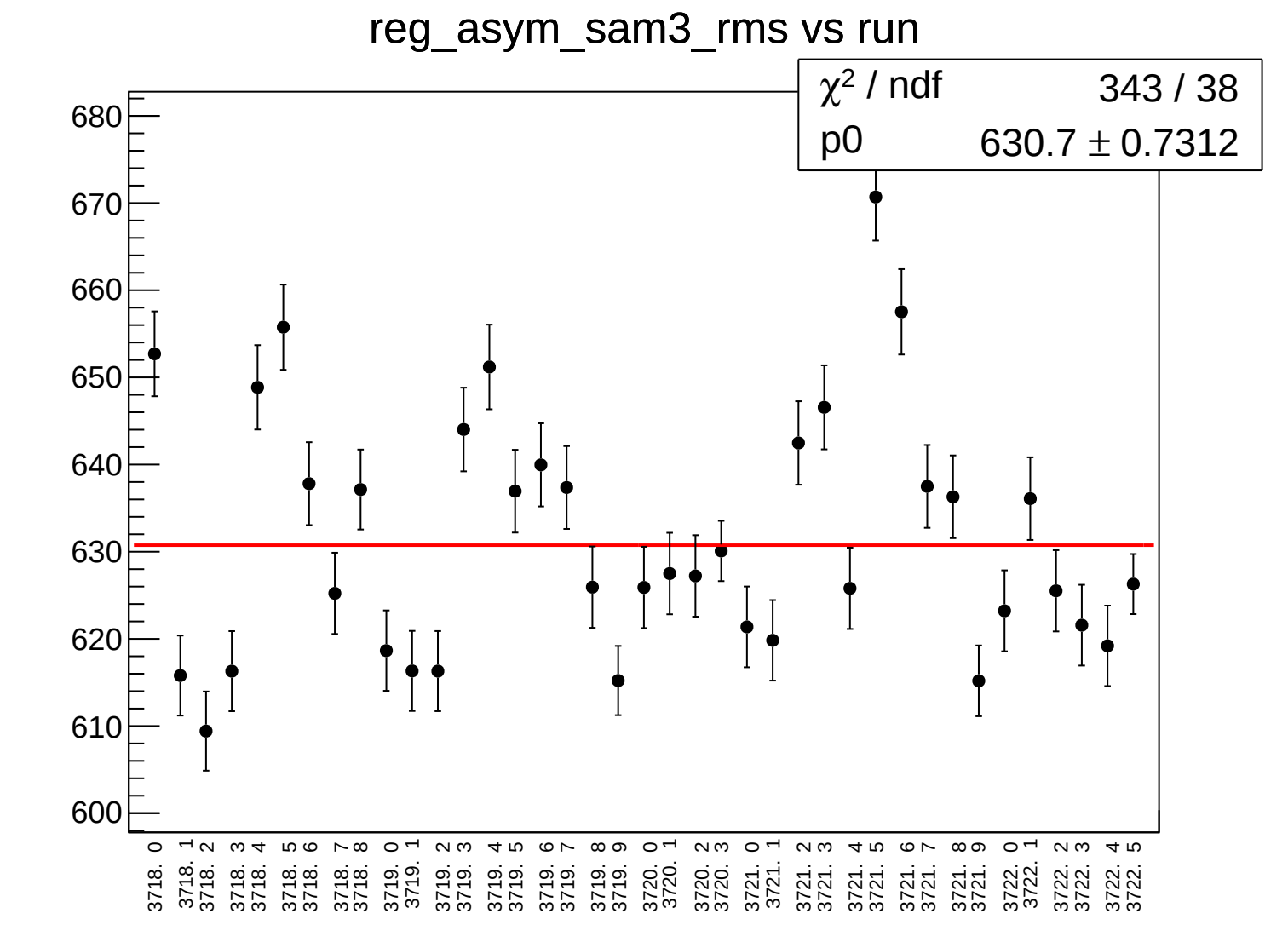

asym_sam2_correction_mean vs run
×10^3
χ² / ndf 54.29 / 38
p0 9407 ± 1.254e+04
300
200
100
0
−100
−200
−300
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 2479
Std Dev 2465
3
2
1
0
−1
−2

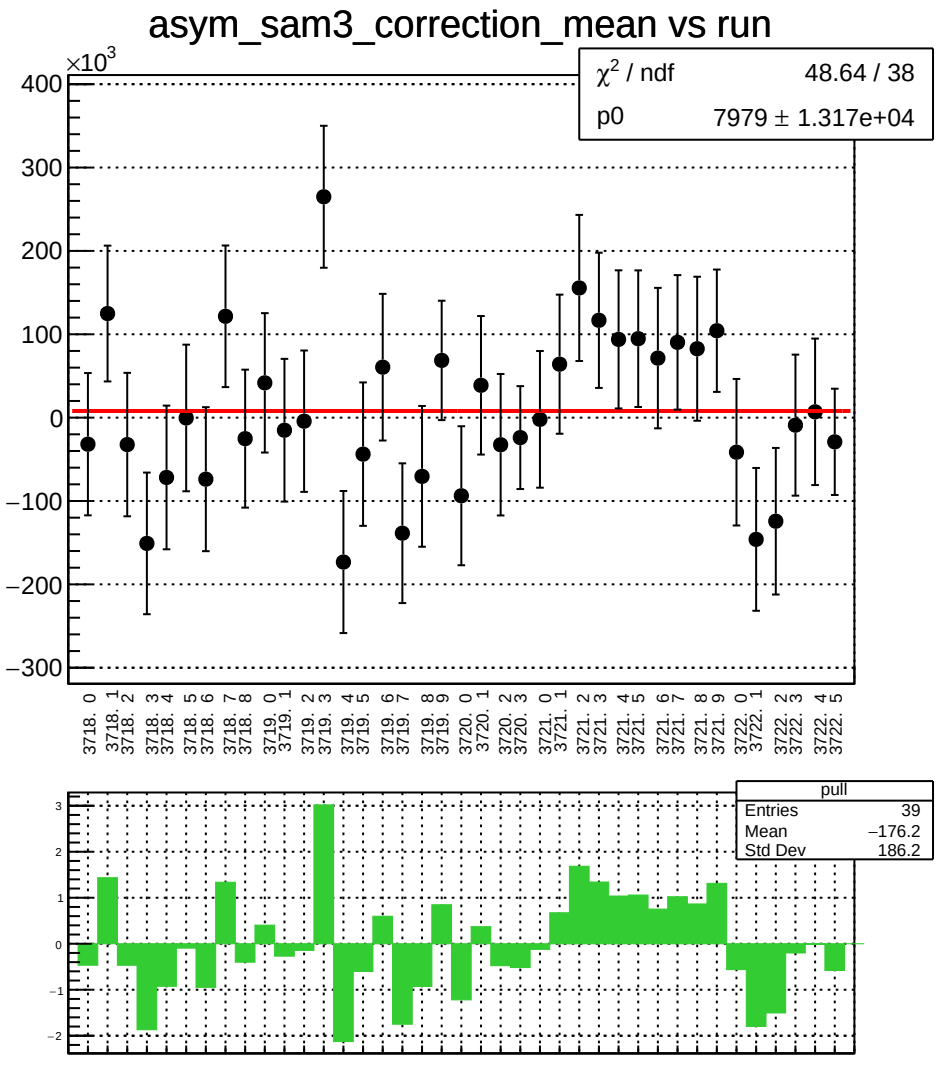

pull1D
Entries 39
Mean 0.0007125
Std Dev 1.18
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

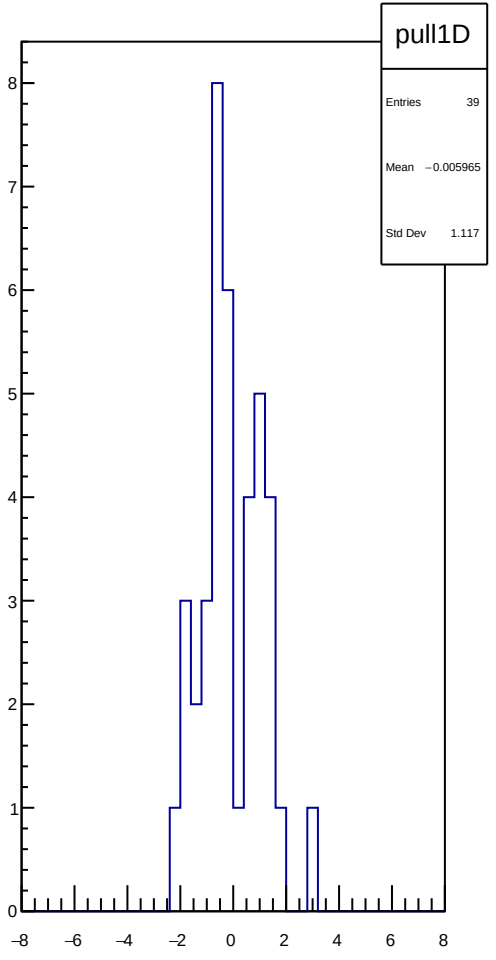

asym_sam2_correction_rms vs run
χ² / ndf 177.2 / 38
p0 7647 ± 8.864
8000
7900
7800
7700
7600
7500
7400
7300
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

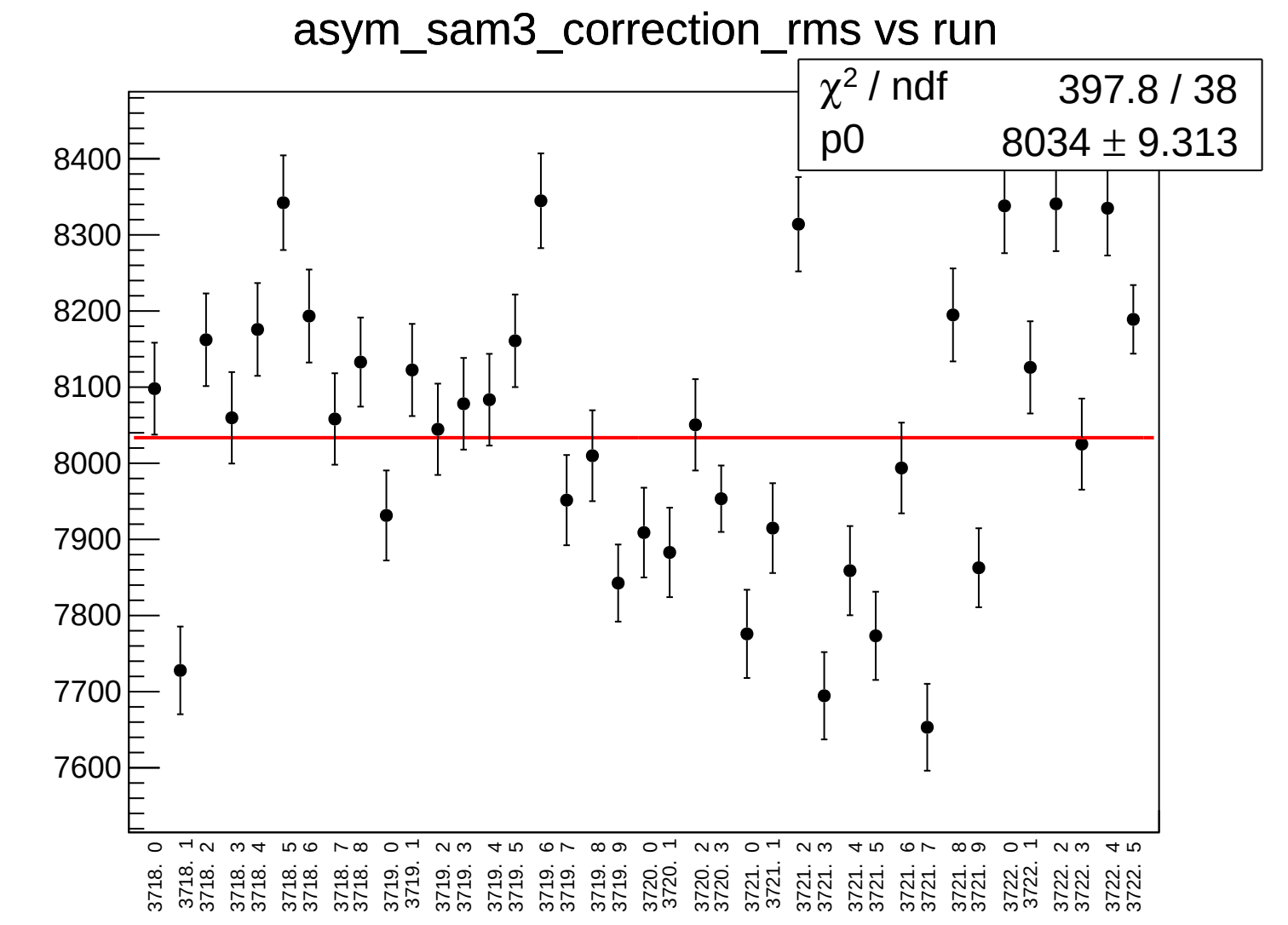

reg_asym_sam3_mean vs run
χ² / ndf 51.87 / 38
p0 629.1 ± 1034
20000
10000
0
−10000
−20000
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −350.5
Std Dev 367.4
2
1
0
−1
−2

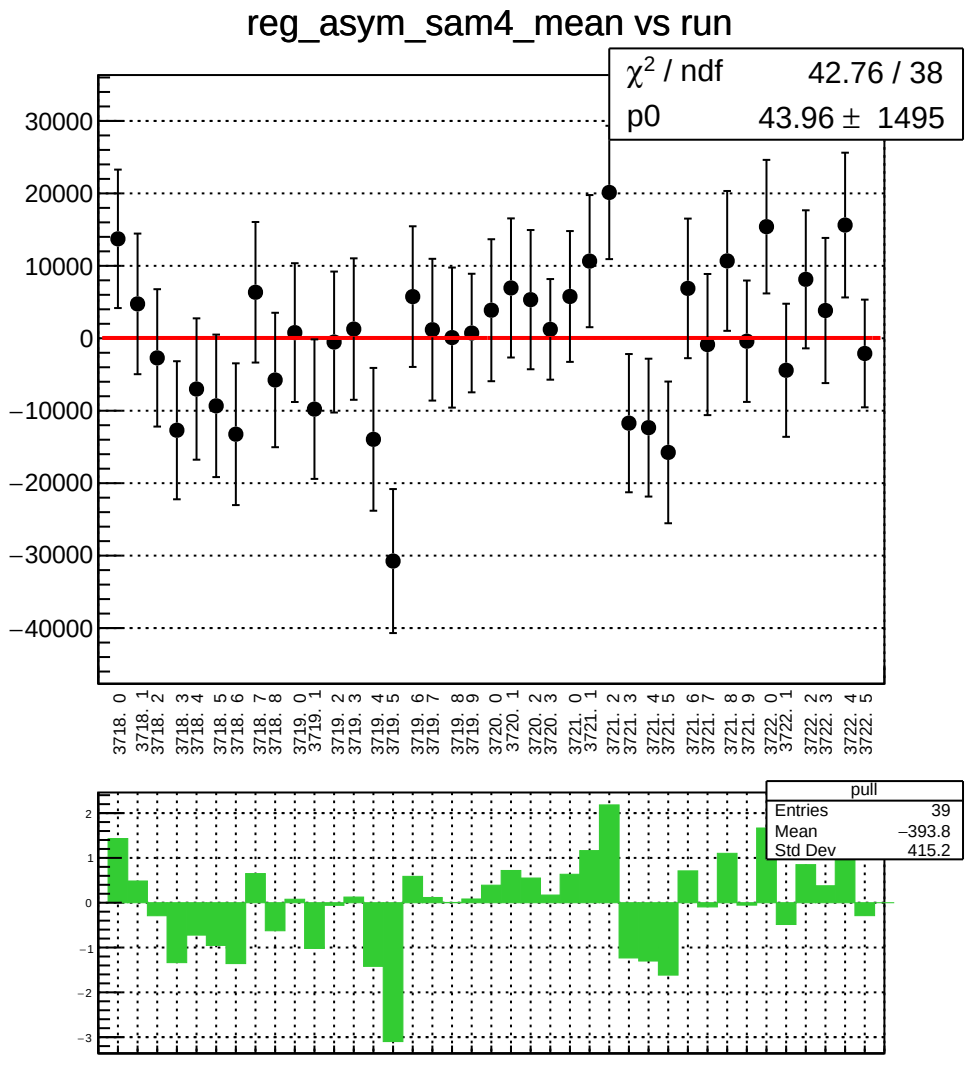

pull1D
Entries 39
Mean −0.01193
Std Dev 1.153
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

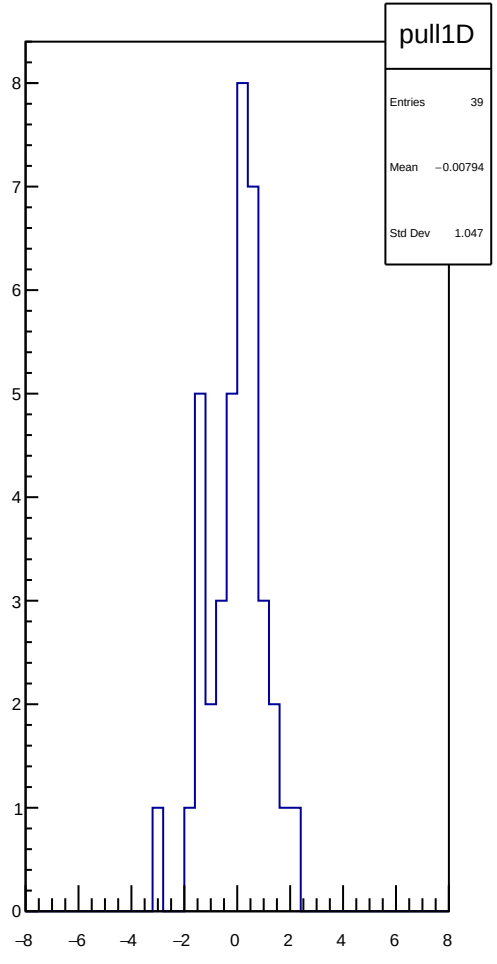

reg_asym_sam3_rms vs run
χ² / ndf 343 / 38
p0 630.7 ± 0.7312
680
670
660
650
640
630
620
610
600
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

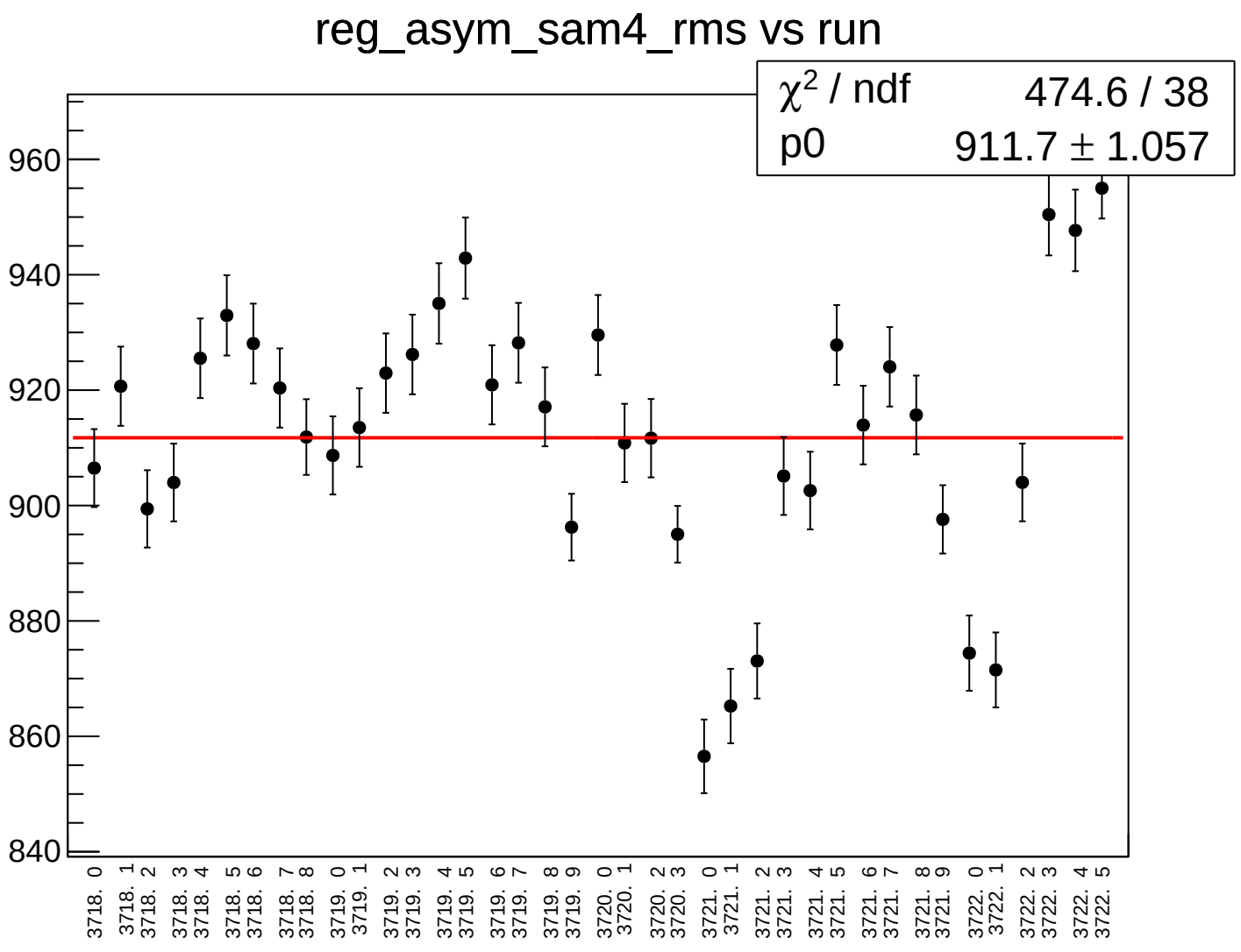

asym_sam3_correction_mean vs run
×10^3
χ² / ndf 48.64 / 38
p0 7979 ± 1.317e+04
pull
Entries 39
Mean −176.2
Std Dev 186.2

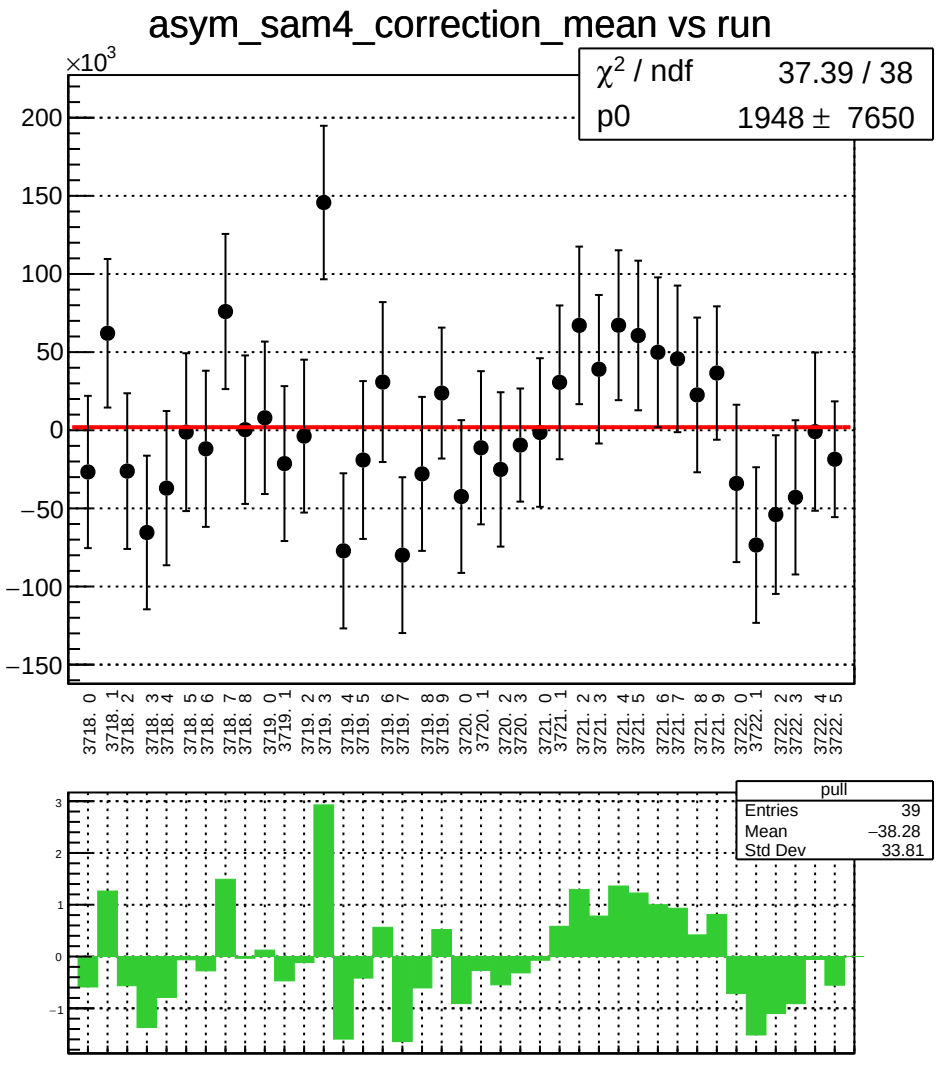

pull1D
Entries 39
Mean −0.005965
Std Dev 1.117

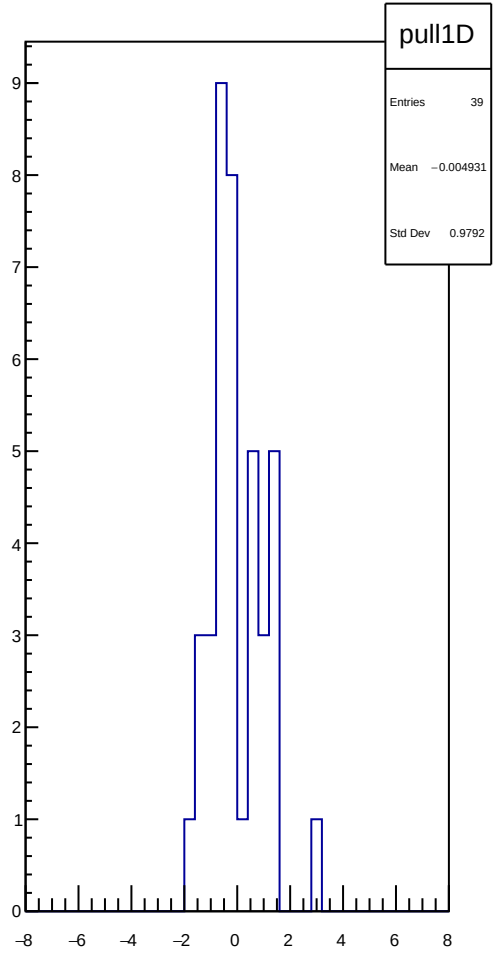

asym_sam3_correction_rms vs run
χ² / ndf 397.8 / 38
p0 8034 ± 9.313
8400
8300
8200
8100
8000
7900
7800
7700
7600
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

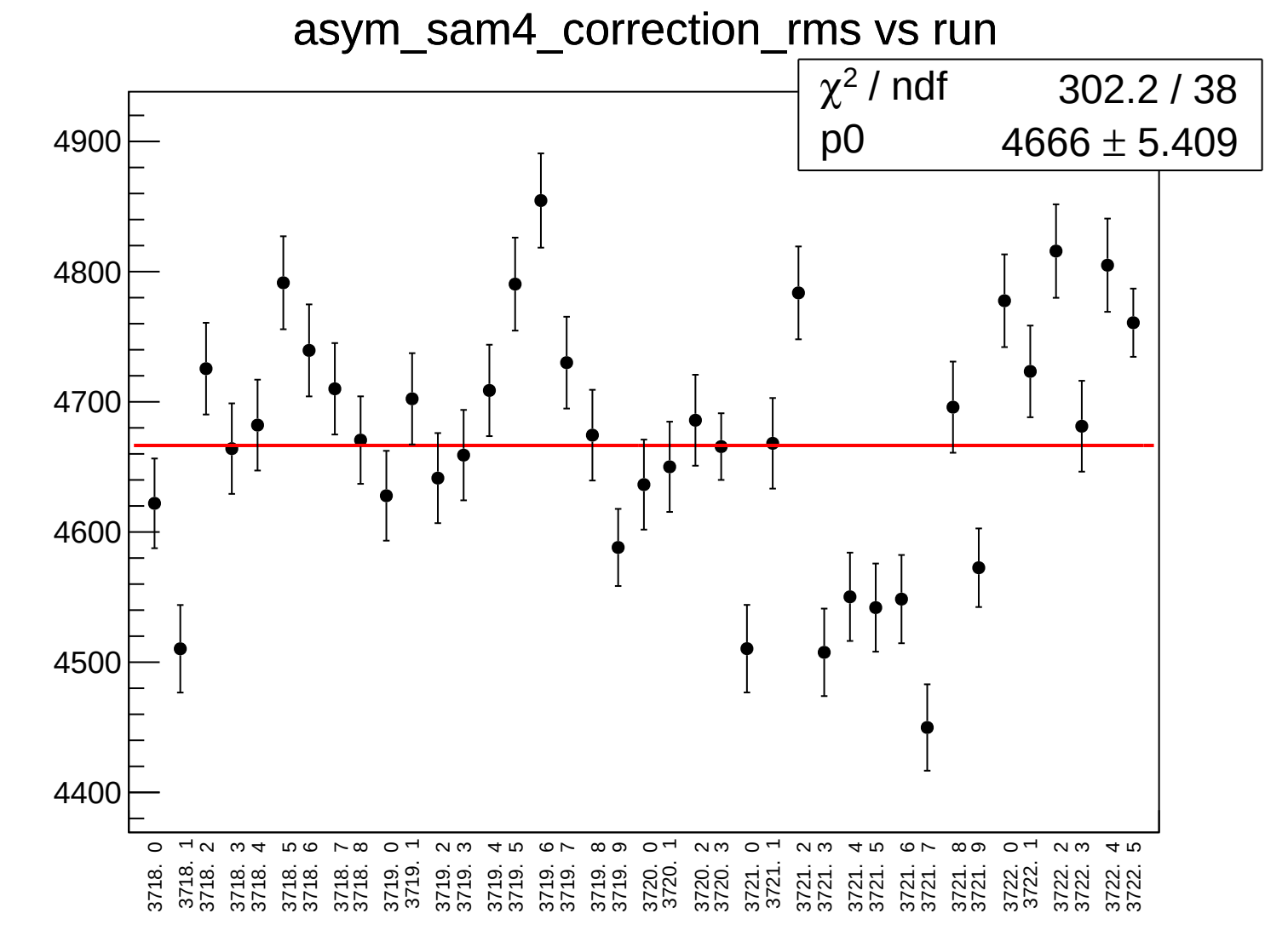

reg_asym_sam4_mean vs run
χ² / ndf 42.76 / 38
p0 43.96 ± 1495
30000
20000
10000
0
−10000
−20000
−30000
−40000
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −393.8
Std Dev 415.2
2
1
0
−1
−2
−3

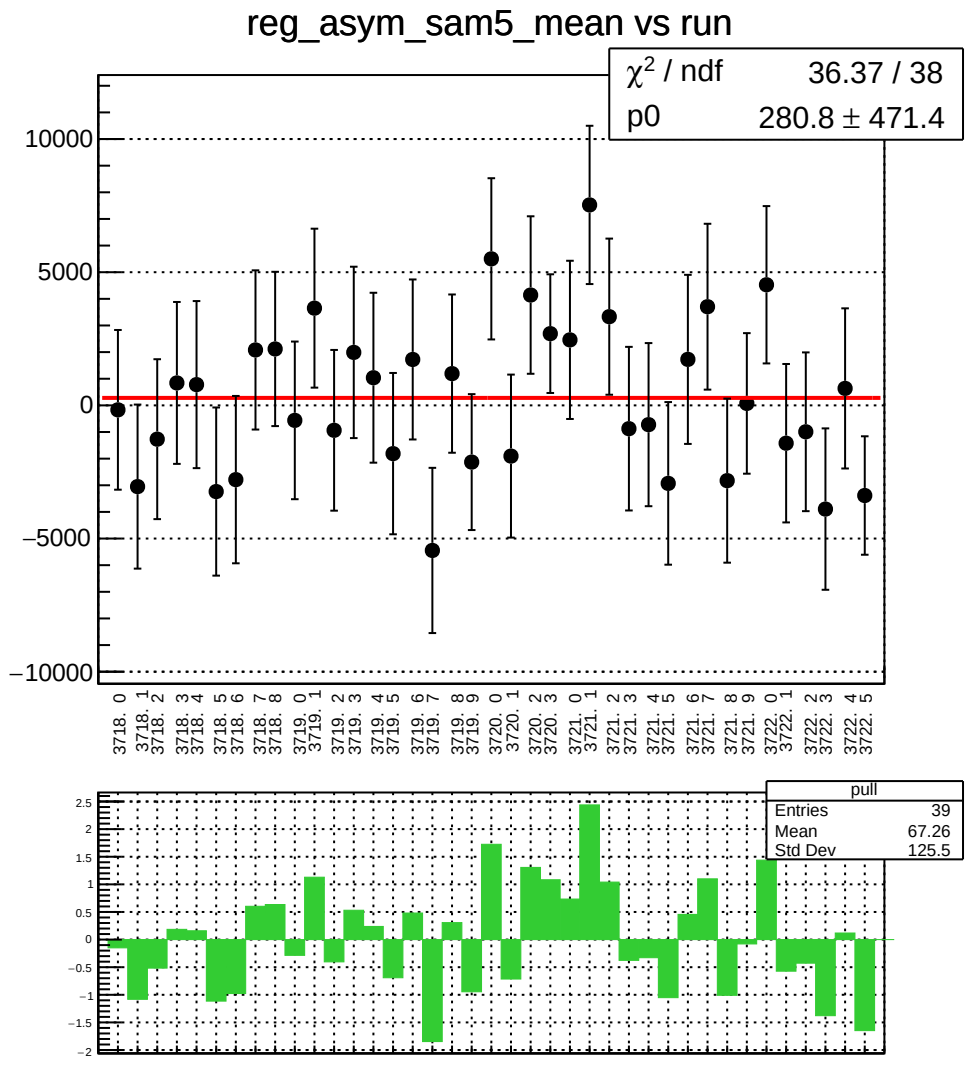

pull1D
Entries 39
Mean −0.00794
Std Dev 1.047
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

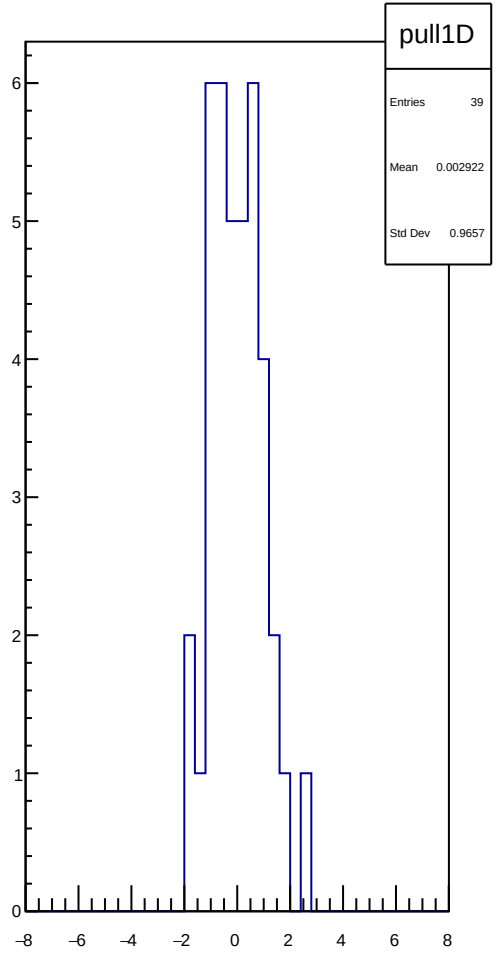

reg_asym_sam4_rms vs run
χ^2 / ndf 474.6 / 38
p0 911.7 ± 1.057
960
940
920
900
880
860
840
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

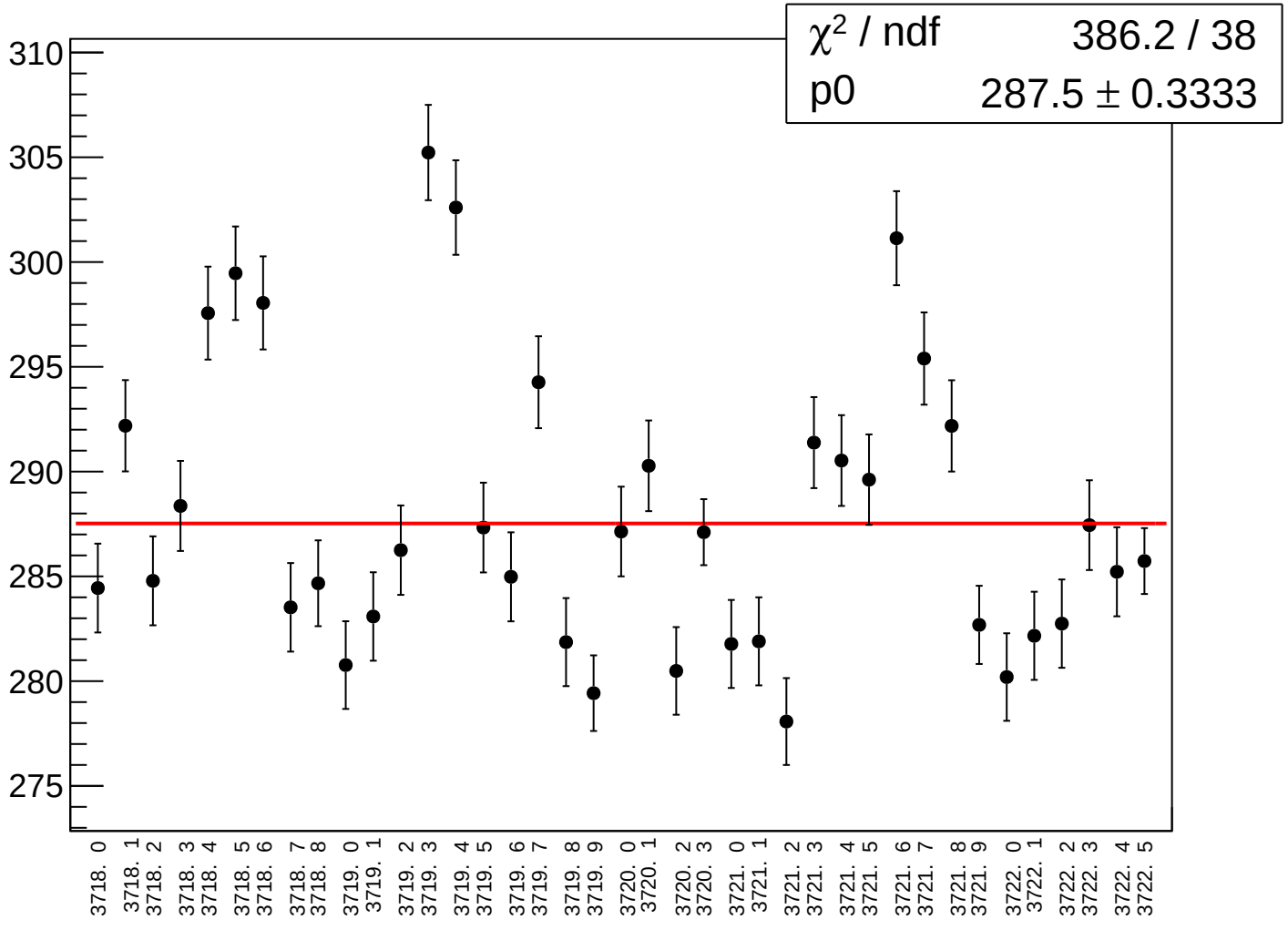

asym_sam4_correction_mean vs run
χ² / ndf 37.39 / 38
p0 1948 ± 7650
×10³
200
150
100
50
0
−50
−100
−150
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −38.28
Std Dev 33.81
3
2
1
0
−1

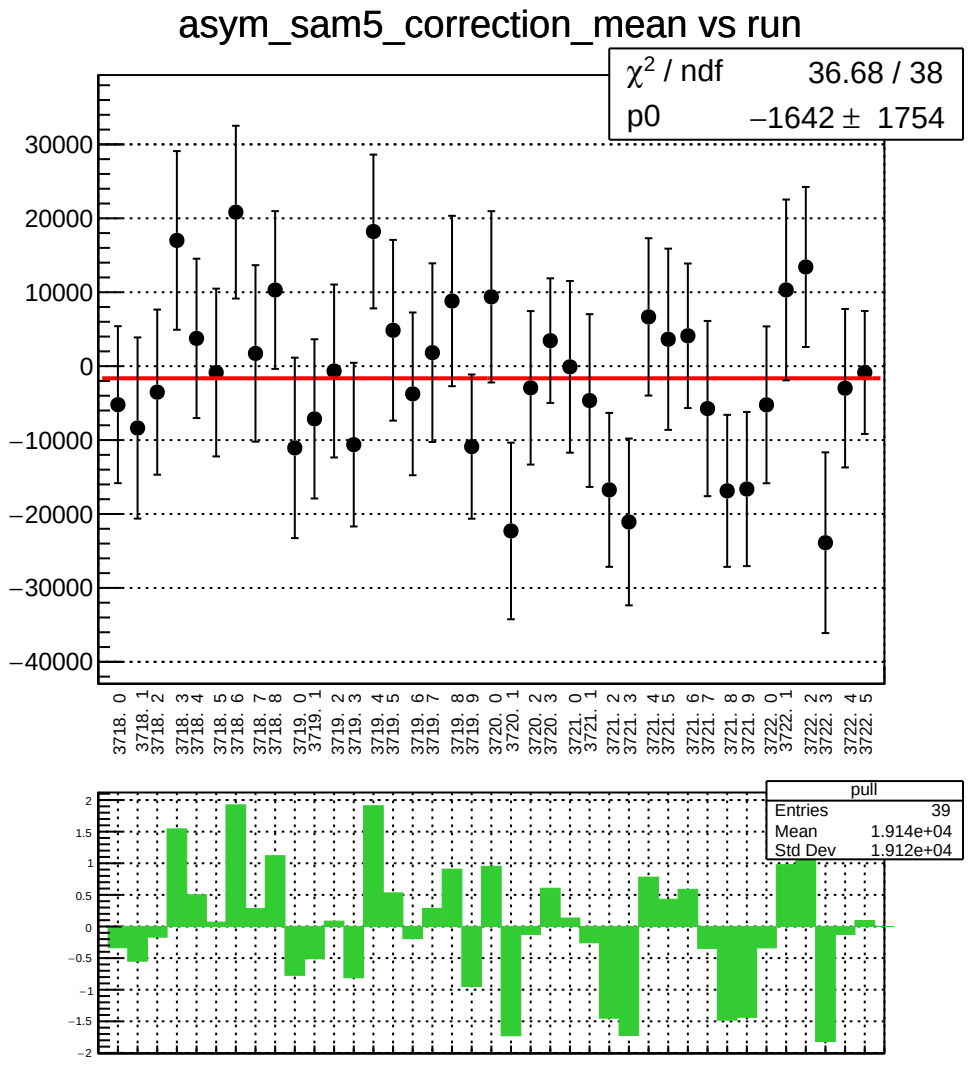

pull1D
Entries 39
Mean −0.004931
Std Dev 0.9792
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

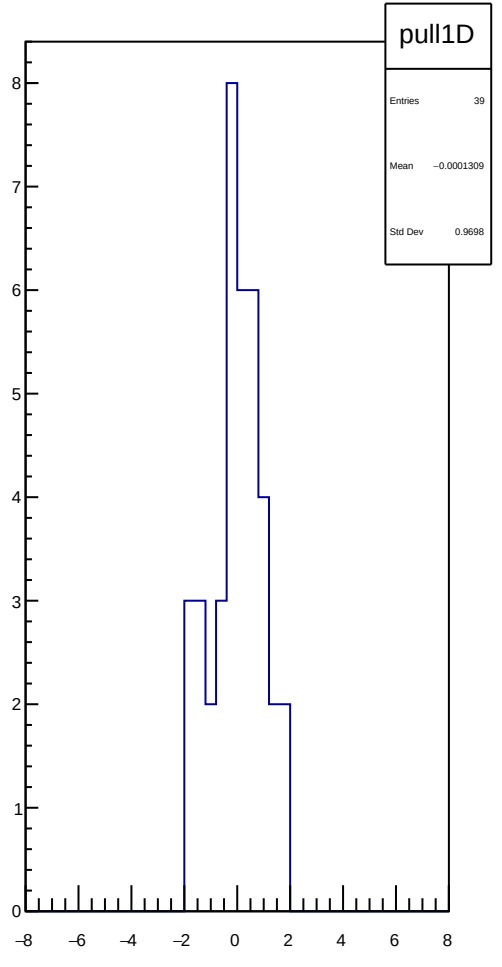

asym_sam4_correction_rms vs run
χ² / ndf 302.2 / 38
p0 4666 ± 5.409
4900
4800
4700
4600
4500
4400
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

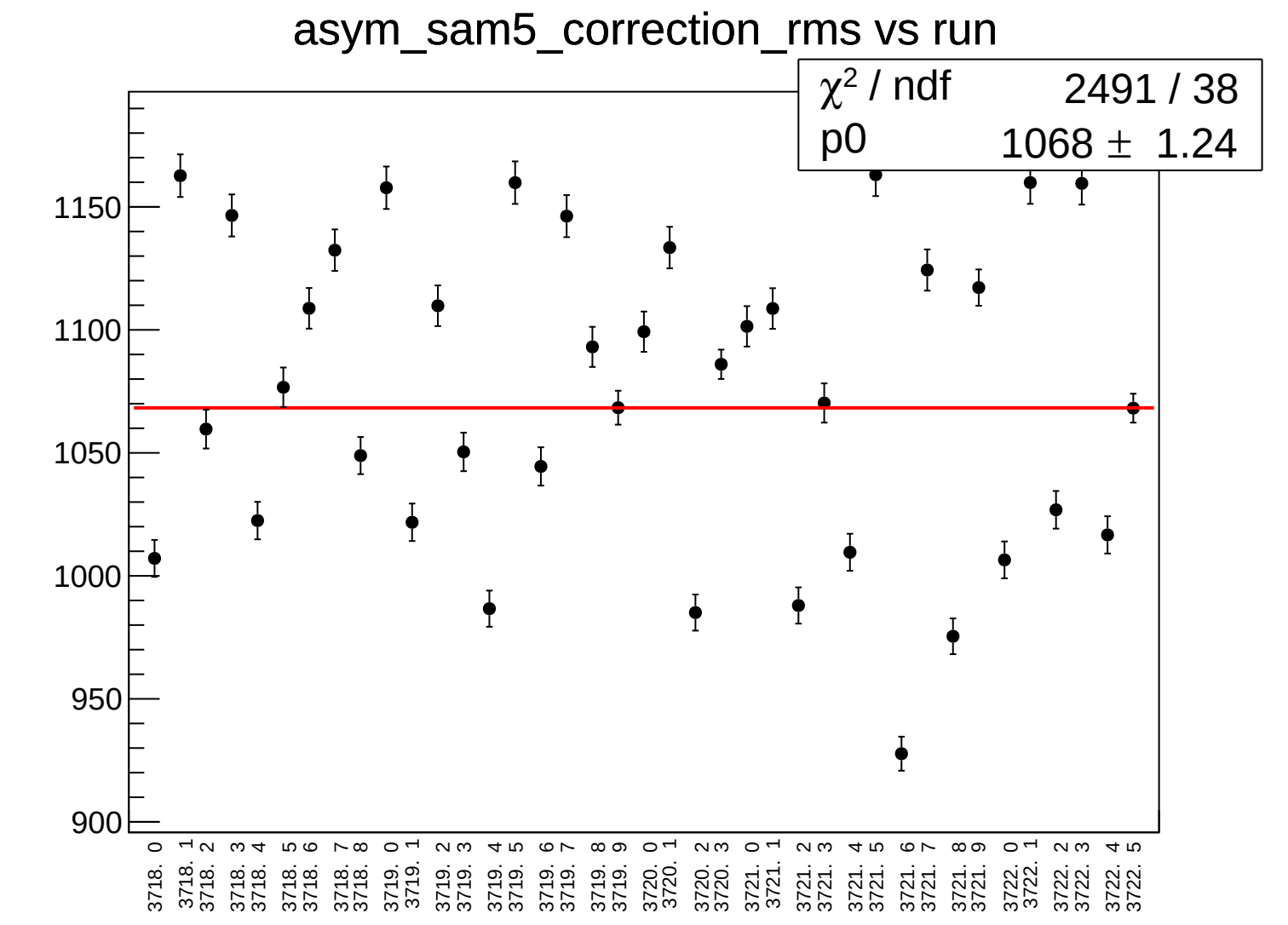

reg_asym_sam5_mean vs run
χ² / ndf 36.37 / 38
p0 280.8 ± 471.4
10000
5000
0
−5000
−10000
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 67.26
Std Dev 125.5
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

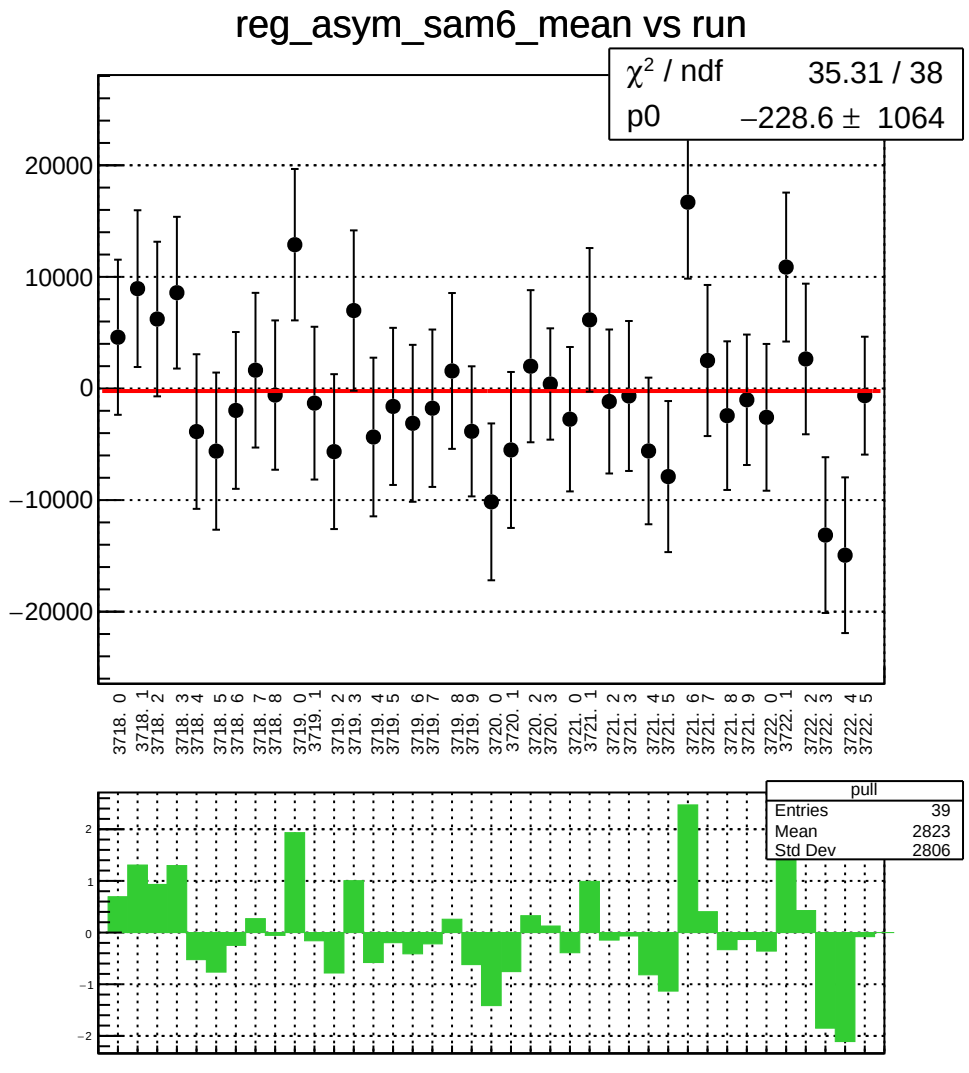

pull1D
Entries 39
Mean 0.002922
Std Dev 0.9657
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

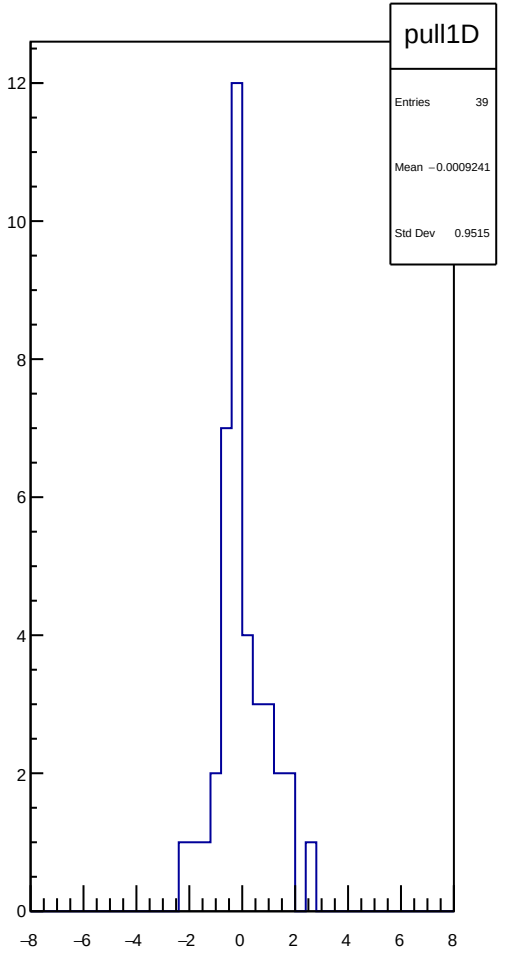

reg_asym_sam5_rms vs run
χ² / ndf 386.2 / 38
p0 287.5 ± 0.3333
310
305
300
295
290
285
280
275
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

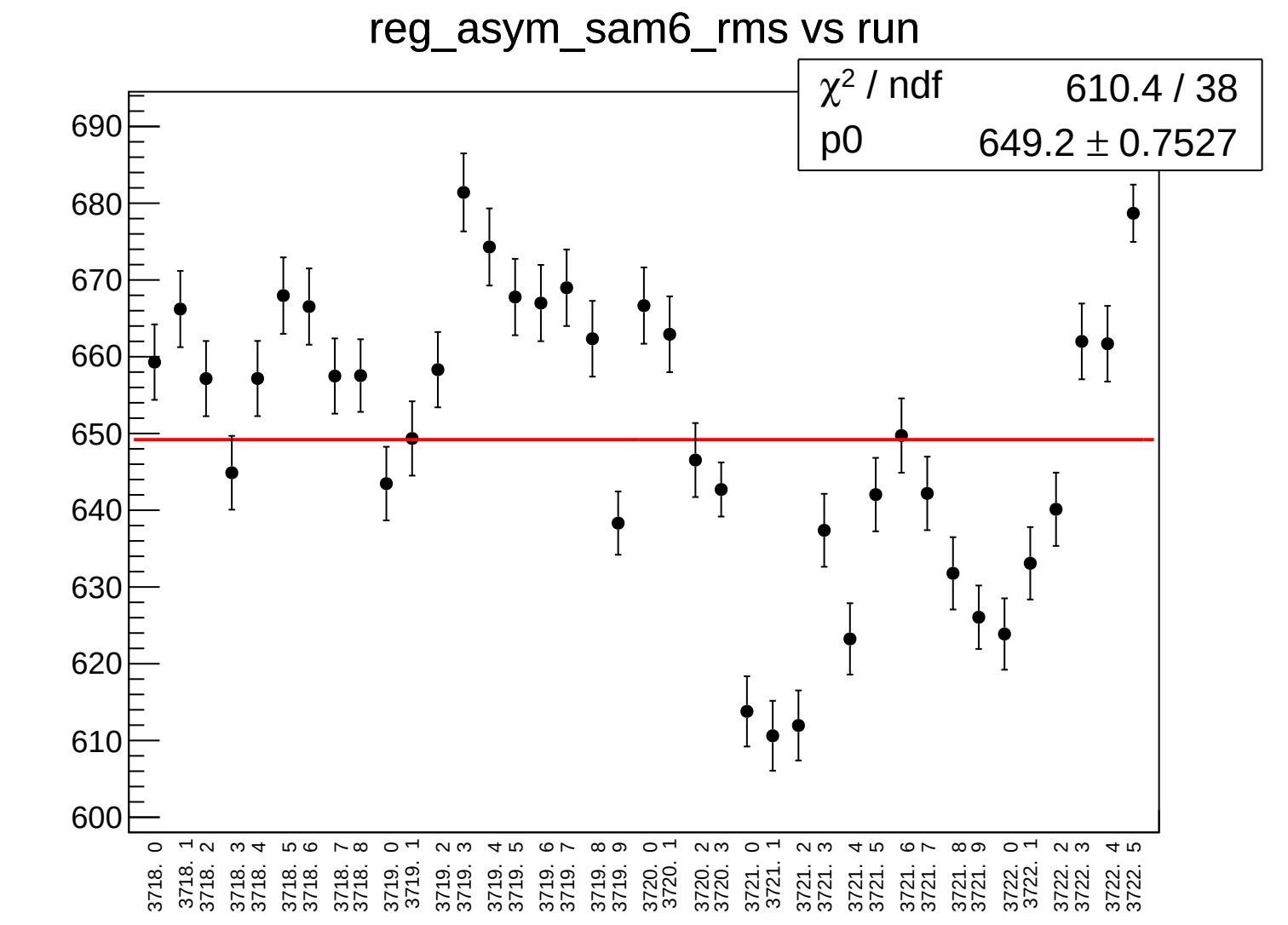

asym_sam5_correction_mean vs run
χ² / ndf 36.68 / 38
p0 −1642 ± 1754
30000
20000
10000
0
−10000
−20000
−30000
−40000
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 1.914e+04
Std Dev 1.912e+04
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

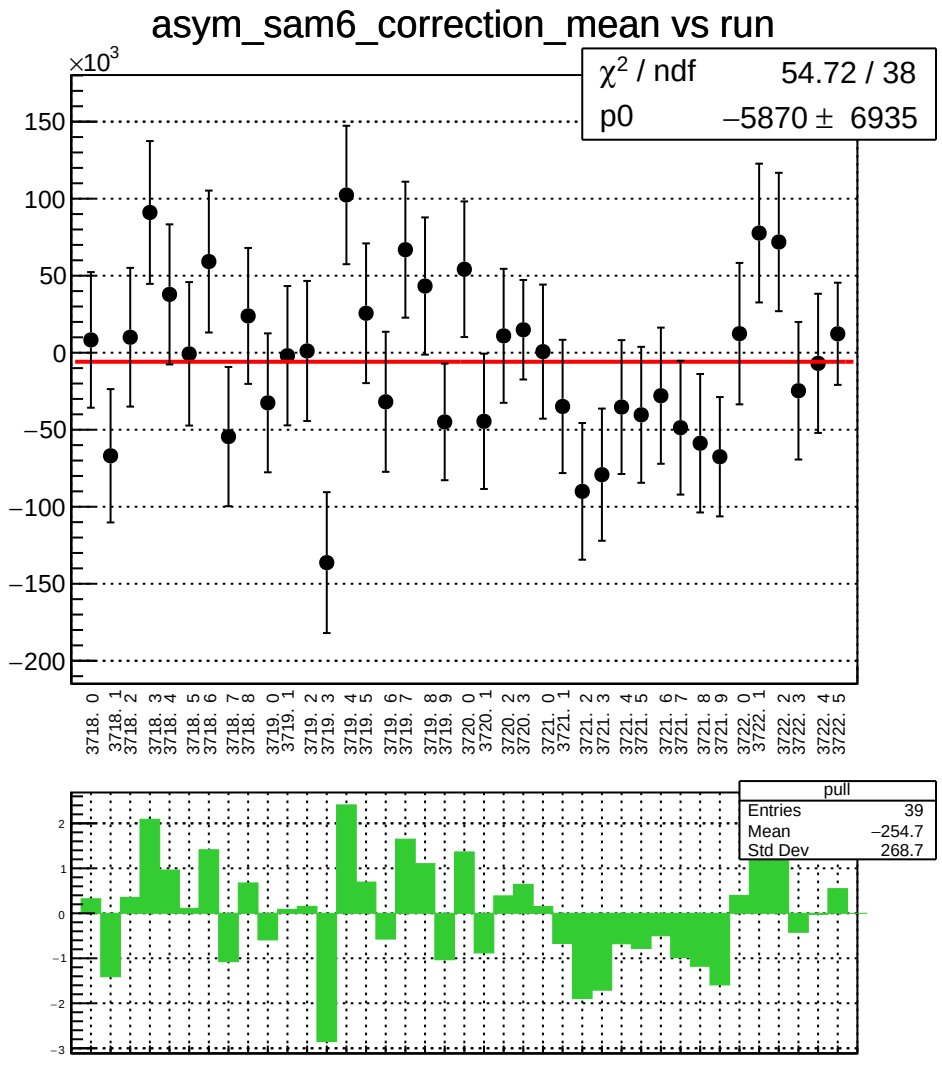

pull1D
Entries 39
Mean −0.0001309
Std Dev 0.9698
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

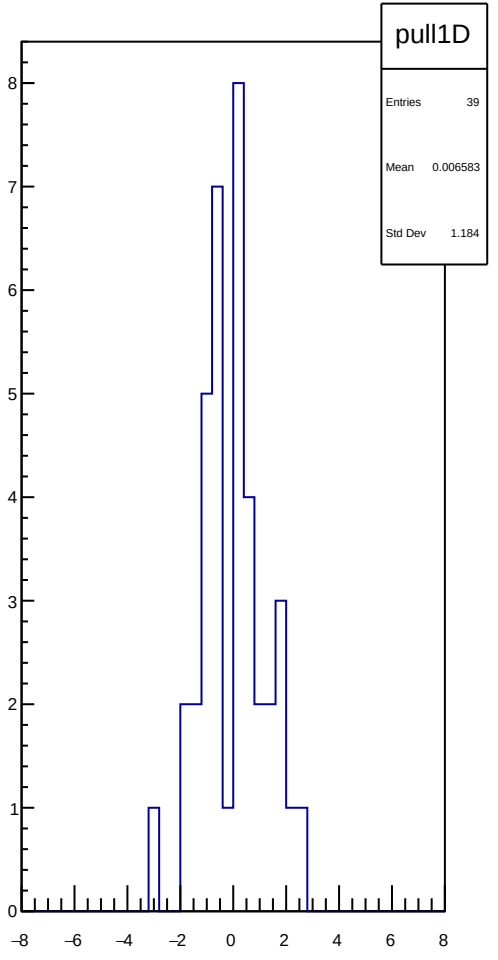

asym_sam5_correction_rms vs run
χ² / ndf 2491 / 38
p0 1068 ± 1.24
1150
1100
1050
1000
950
900
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

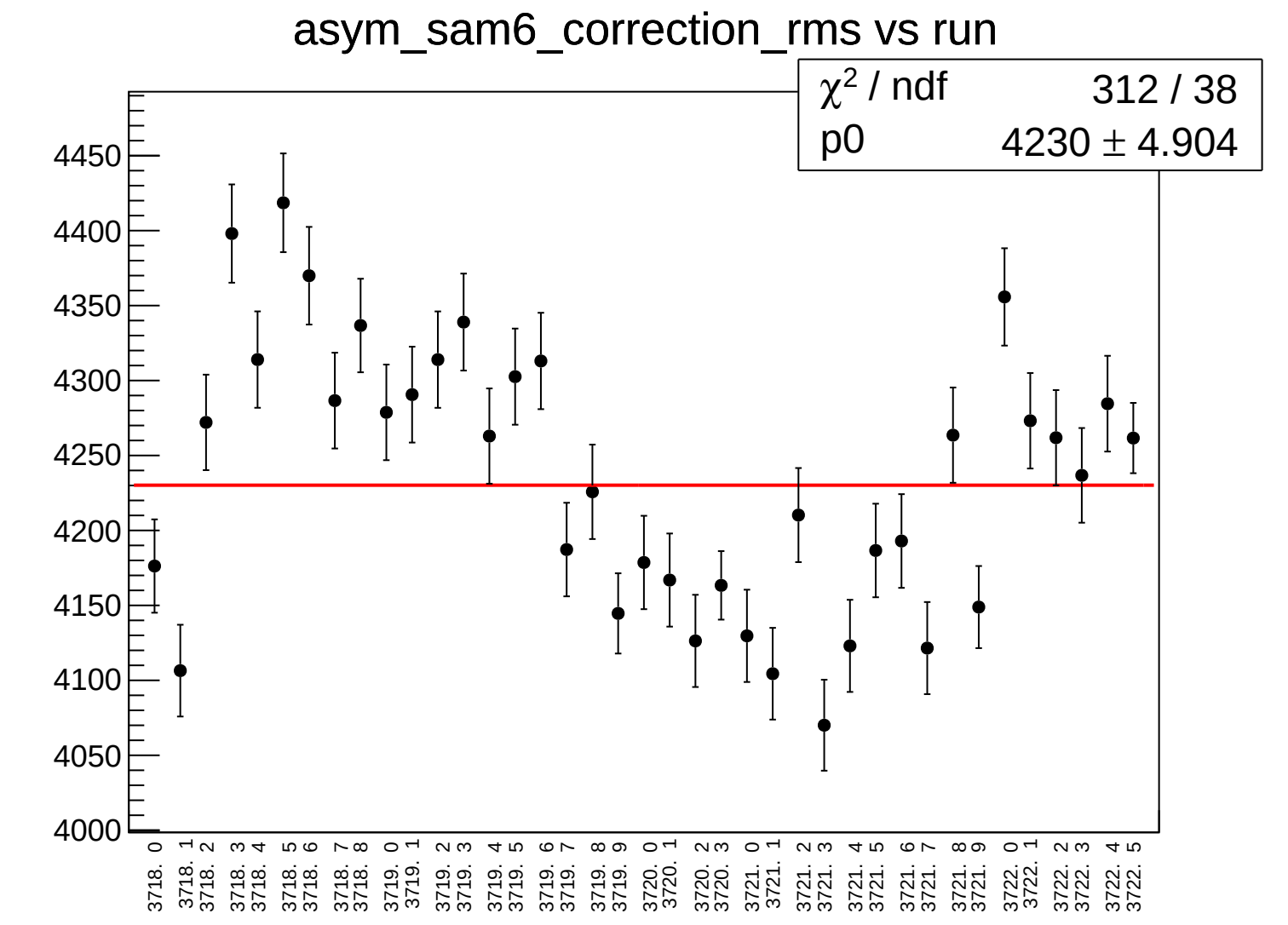

reg_asym_sam6_mean vs run
χ² / ndf 35.31 / 38
p0 −228.6 ± 1064
20000
10000
0
−10000
−20000
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 2823
Std Dev 2806
2
1
0
−1
−2

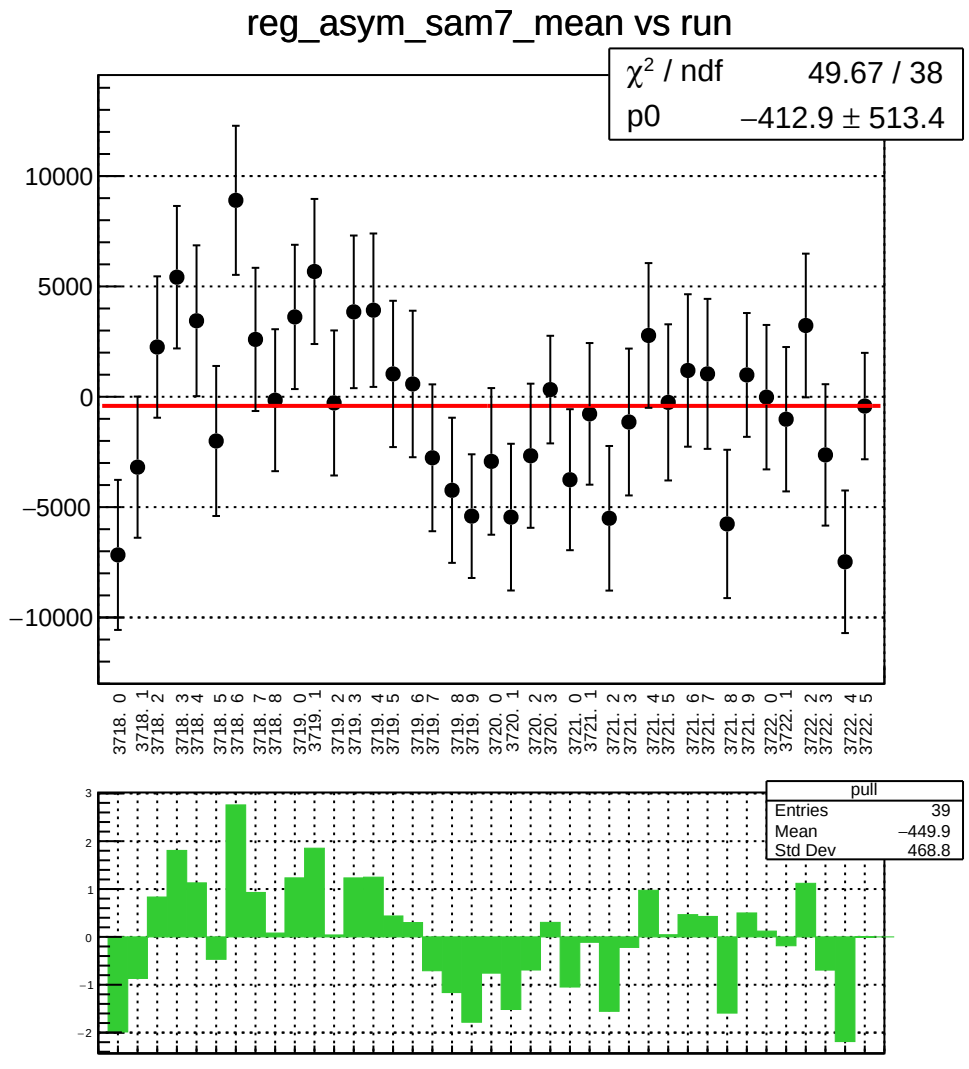

pull1D
Entries 39
Mean −0.0009241
Std Dev 0.9515
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

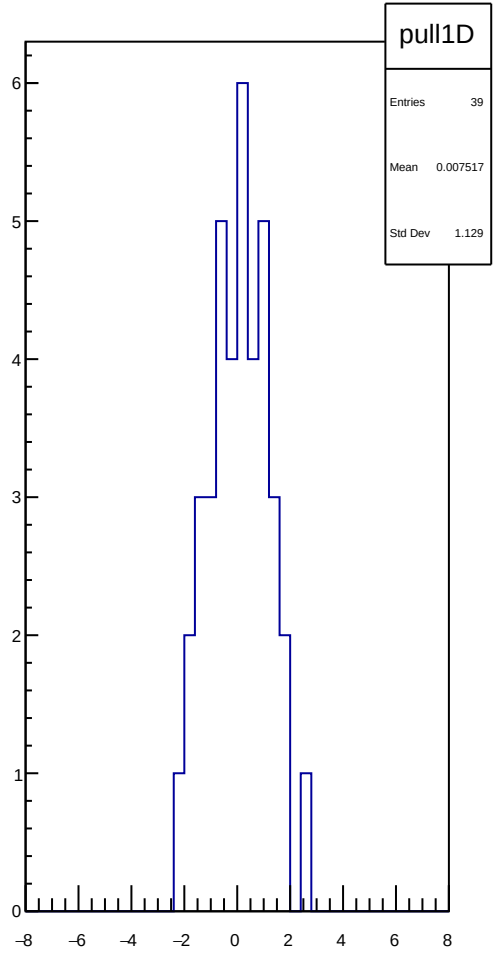

reg_asym_sam6_rms vs run
χ² / ndf 610.4 / 38
p0 649.2 ± 0.7527
690
680
670
660
650
640
630
620
610
600
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

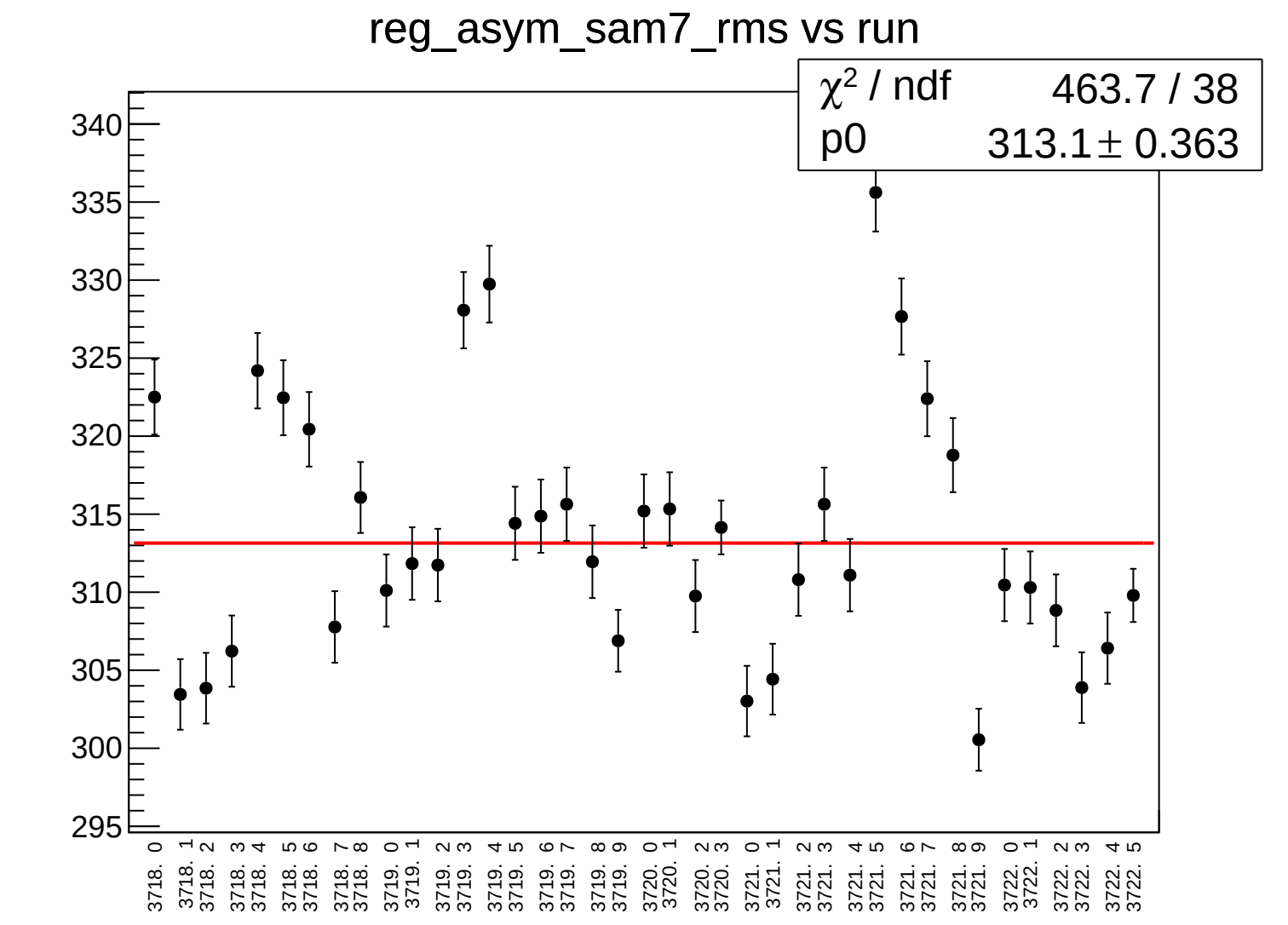

asym_sam6_correction_mean vs run
×10^3
χ² / ndf 54.72 / 38
p0 −5870 ± 6935
150
100
50
0
−50
−100
−150
−200
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −254.7
Std Dev 268.7
2
1
0
−1
−2
−3

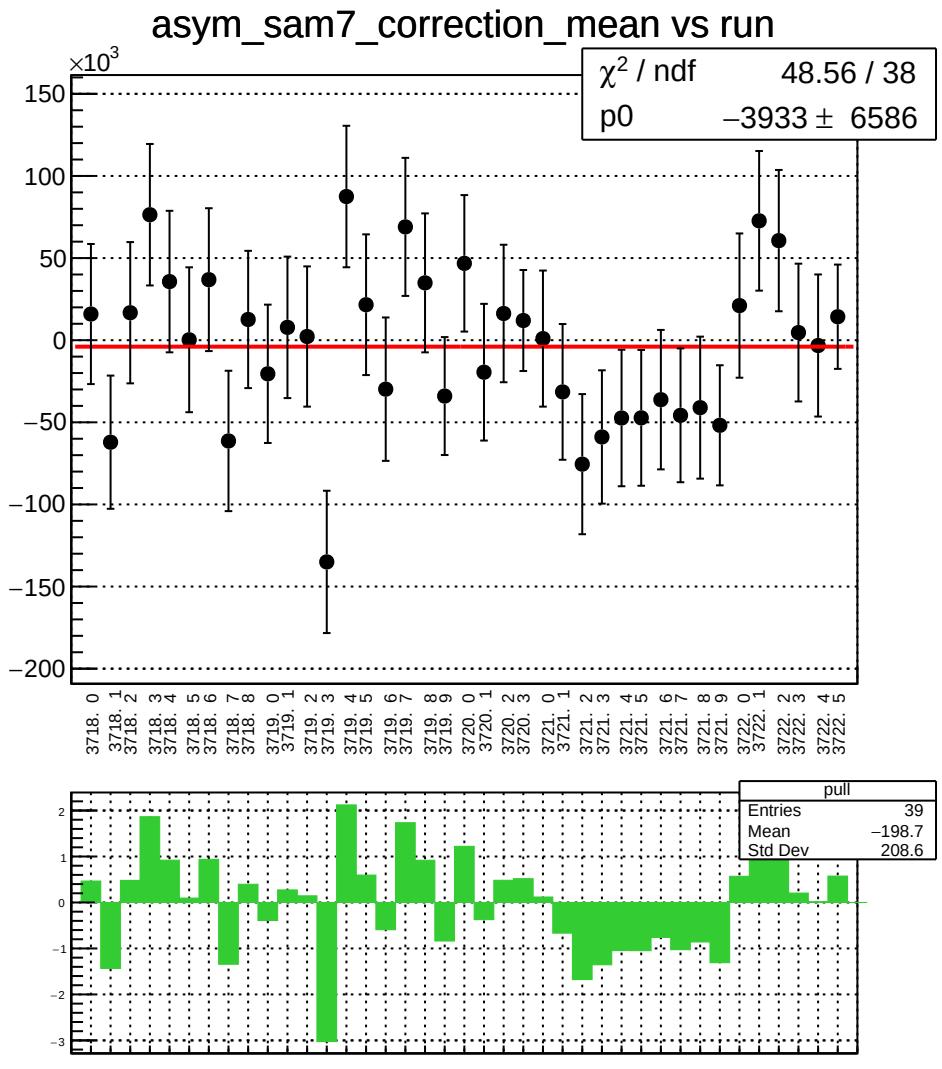

pull1D
Entries 39
Mean 0.006583
Std Dev 1.184
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

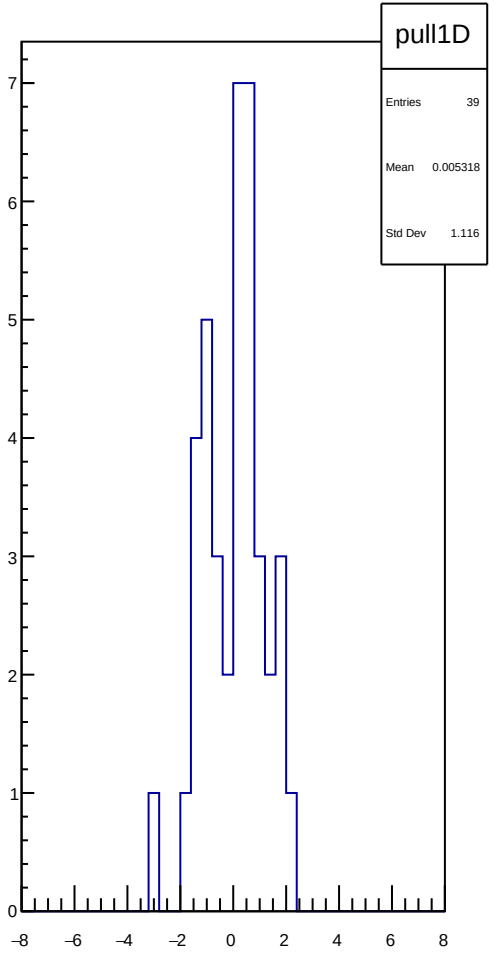

asym_sam6_correction_rms vs run
χ² / ndf 312 / 38
p0 4230 ± 4.904
4450
4400
4350
4300
4250
4200
4150
4100
4050
4000
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

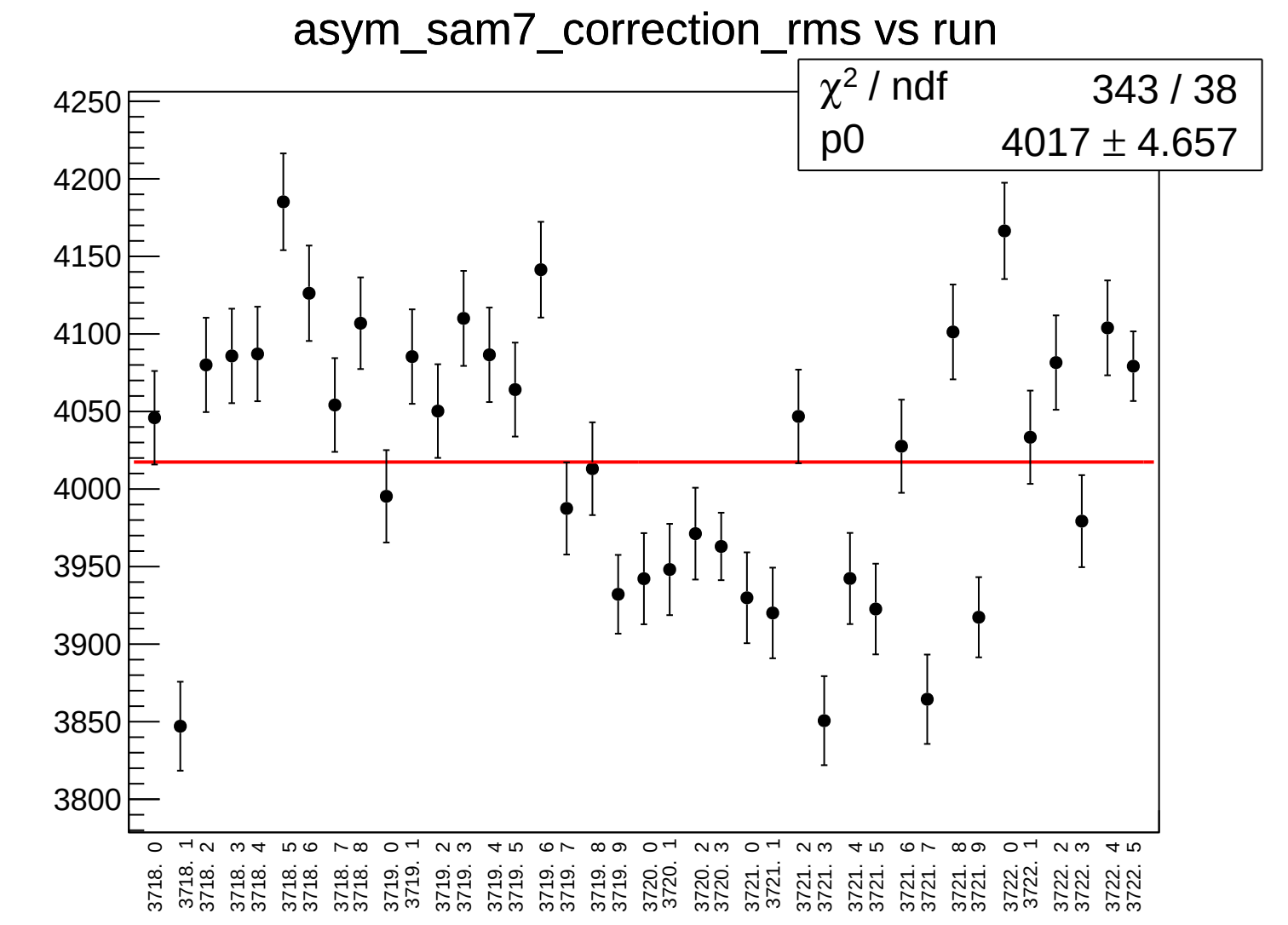

reg_asym_sam7_mean vs run
χ² / ndf 49.67 / 38
p0 −412.9 ± 513.4
10000
5000
0
−5000
−10000
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −449.9
Std Dev 468.8
3
2
1
0
−1
−2

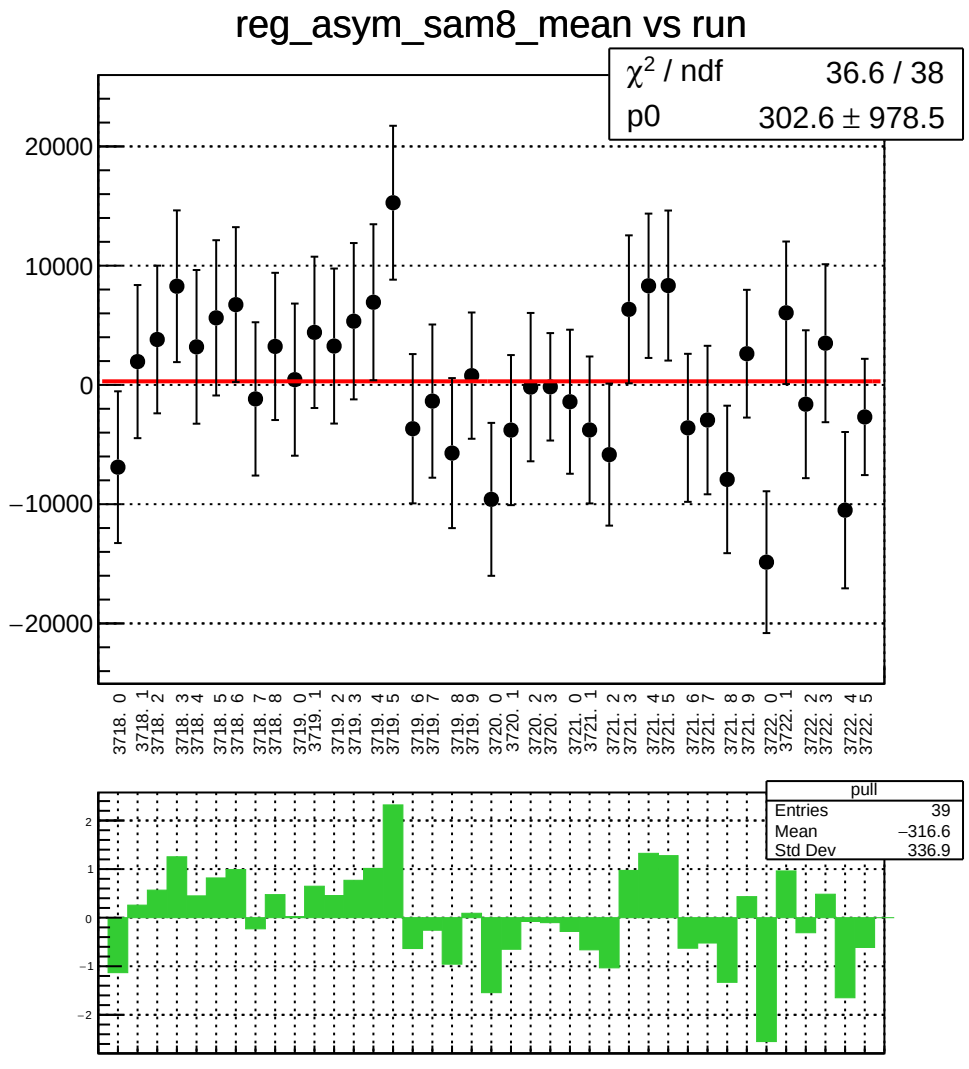

pull1D
Entries 39
Mean 0.007517
Std Dev 1.129
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

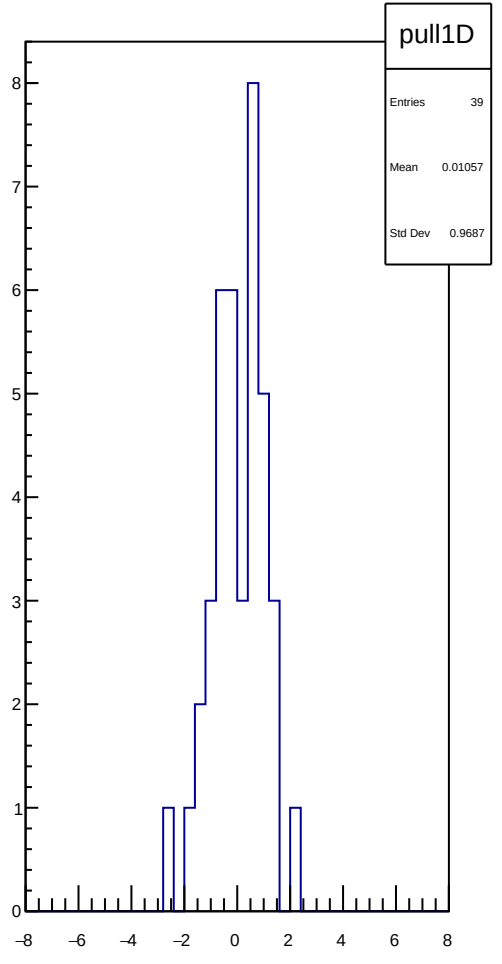

reg_asym_sam7_rms vs run
χ² / ndf 463.7 / 38
p0 313.1 ± 0.363
340
335
330
325
320
315
310
305
300
295
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

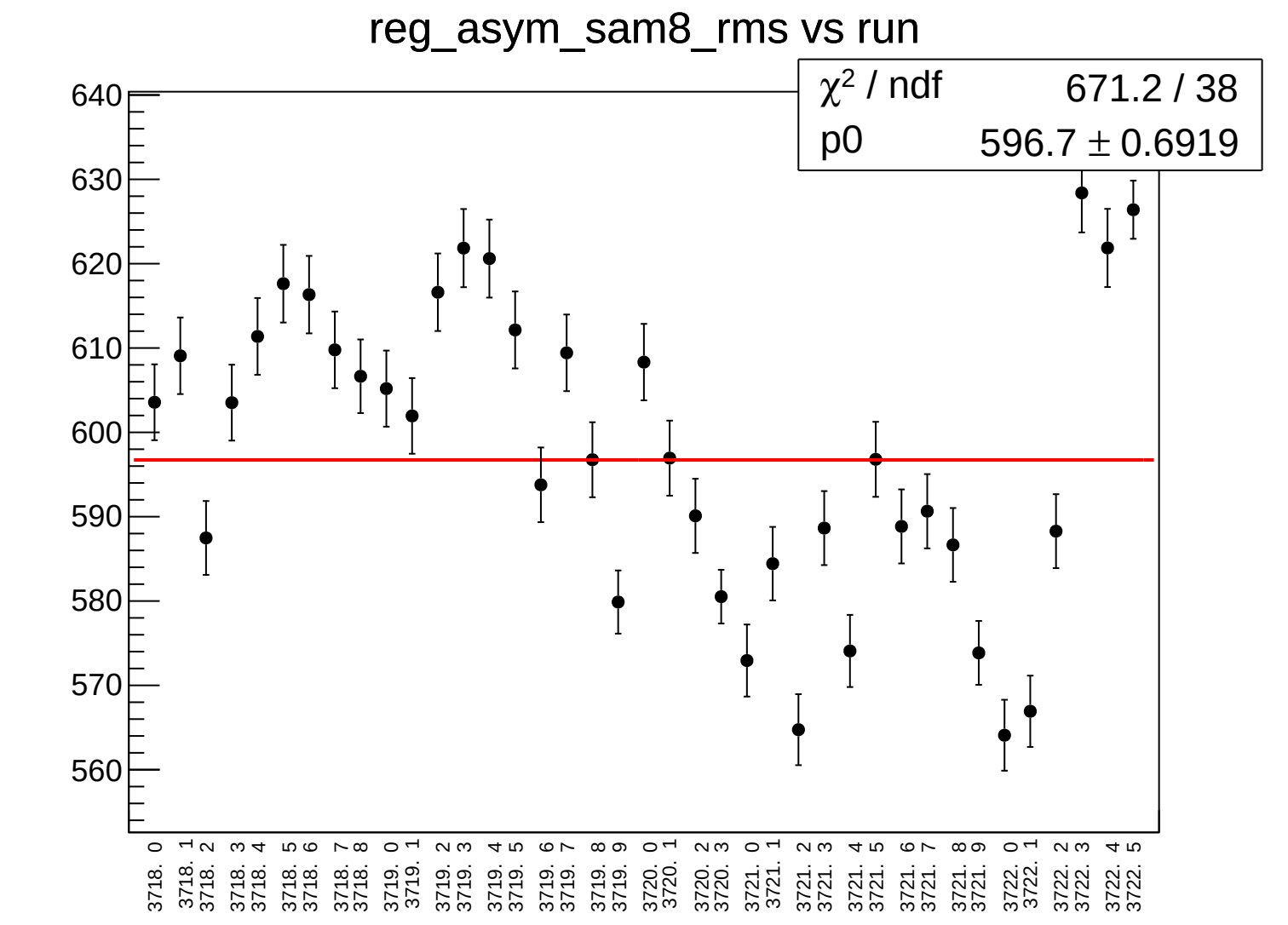

asym_sam7_correction_mean vs run
×10^3
χ² / ndf 48.56 / 38
p0 −3933 ± 6586
150
100
50
0
−50
−100
−150
−200
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −198.7
Std Dev 208.6
2
1
0
−1
−2
−3

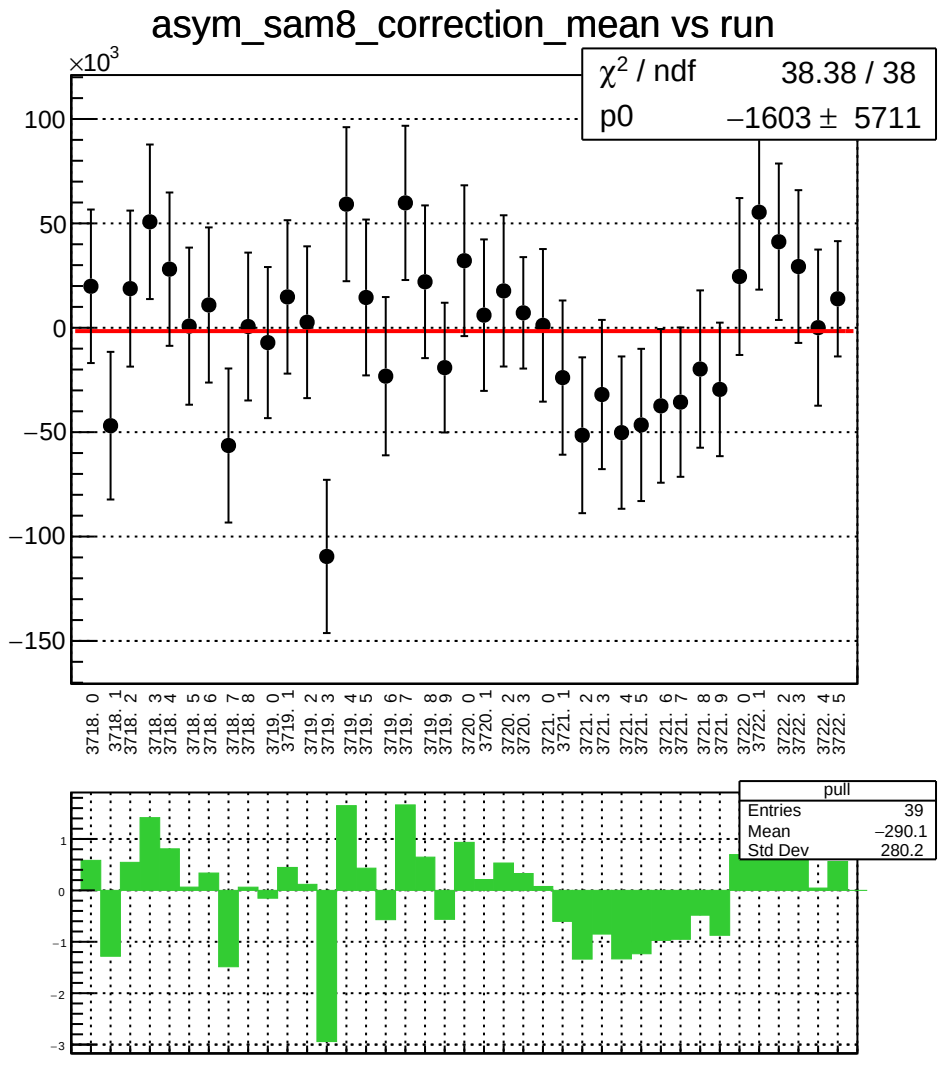

pull1D
Entries 39
Mean 0.005318
Std Dev 1.116
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

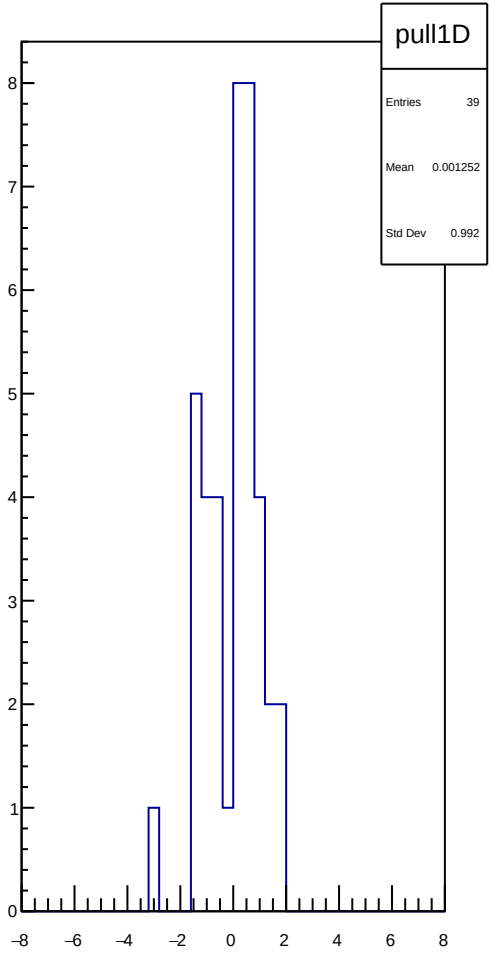

asym_sam7_correction_rms vs run
χ² / ndf 343 / 38
p0 4017 ± 4.657
4250
4200
4150
4100
4050
4000
3950
3900
3850
3800
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

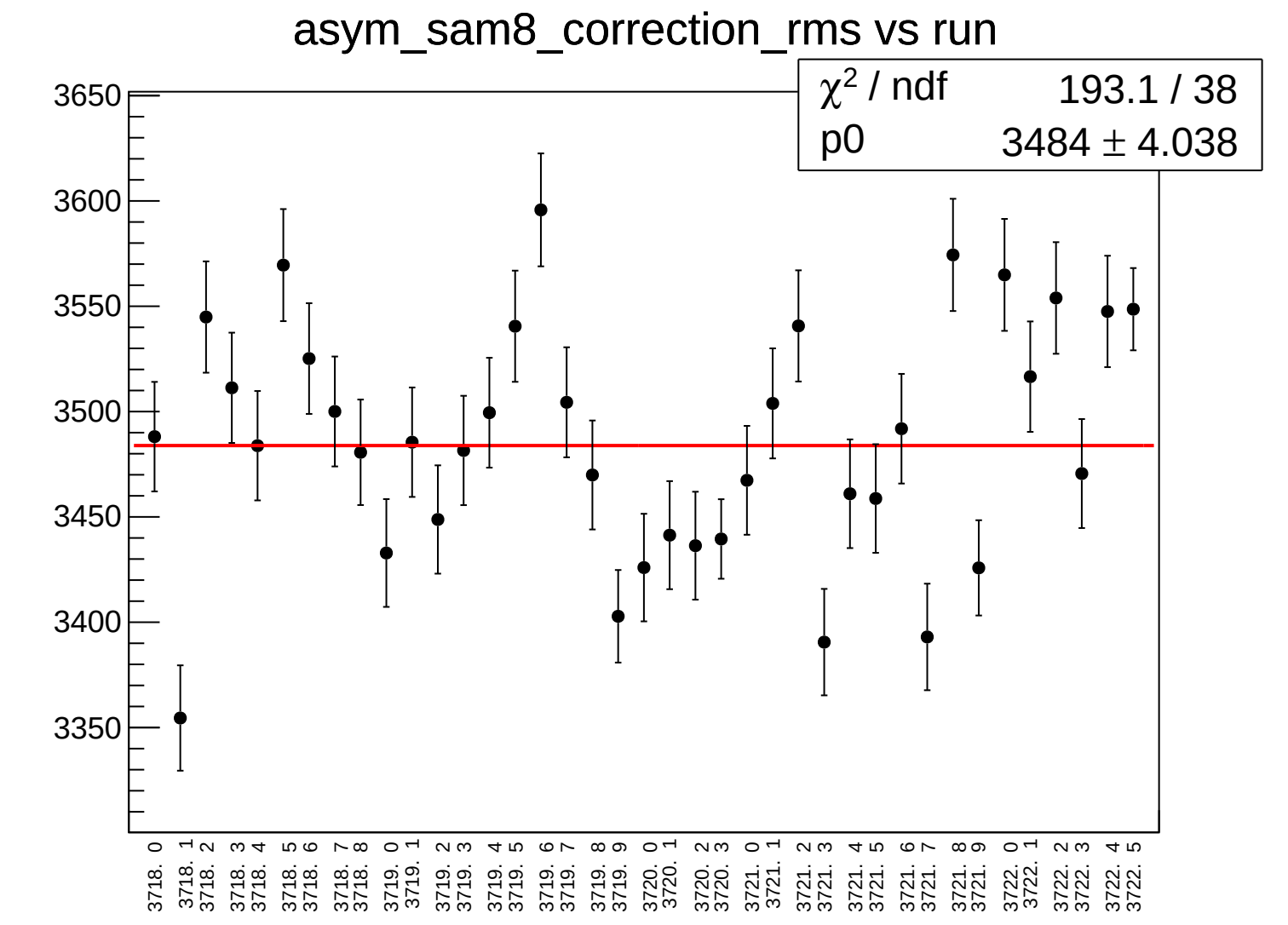

reg_asym_sam8_mean vs run
χ² / ndf 36.6 / 38
p0 302.6 ± 978.5
20000
10000
0
−10000
−20000
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −316.6
Std Dev 336.9
2
1
0
−1
−2

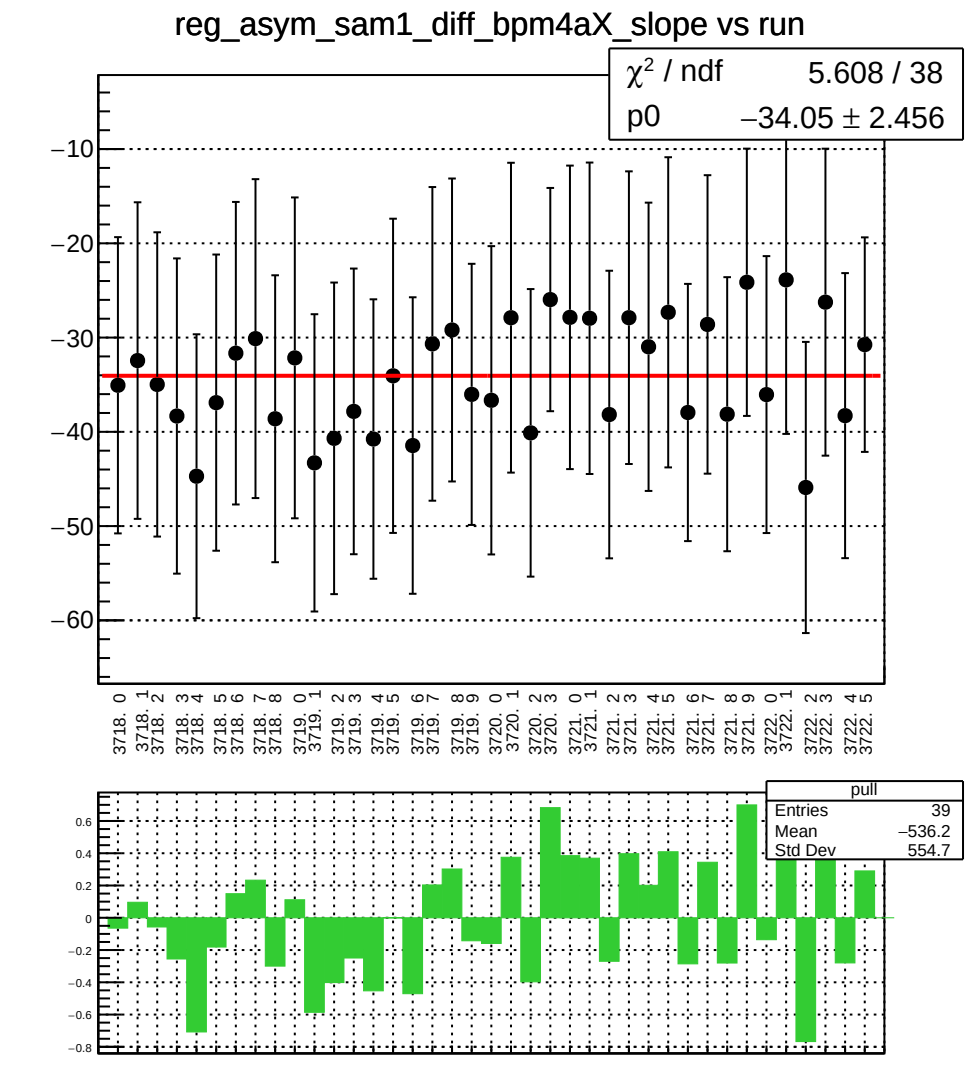

pull1D
Entries 39
Mean 0.01057
Std Dev 0.9687
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

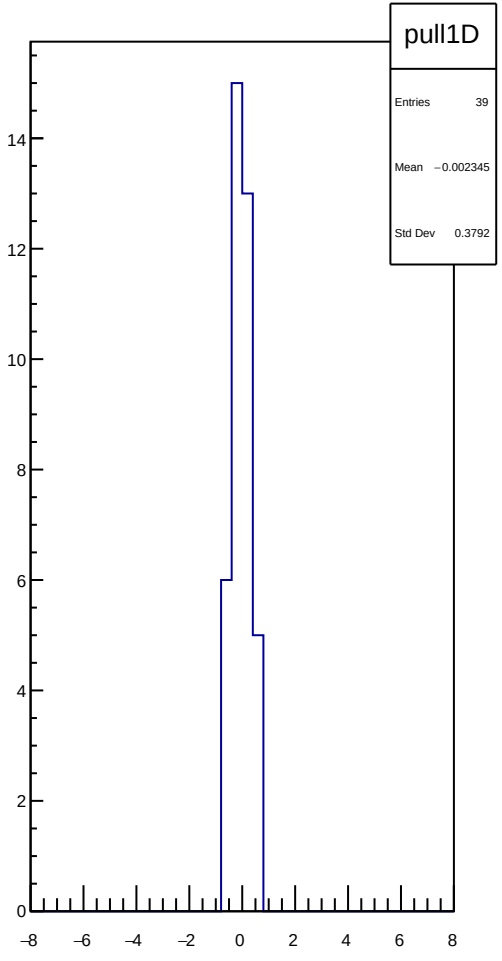

reg_asym_sam8_rms vs run
χ² / ndf 671.2 / 38
p0 596.7 ± 0.6919
640
630
620
610
600
590
580
570
560
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

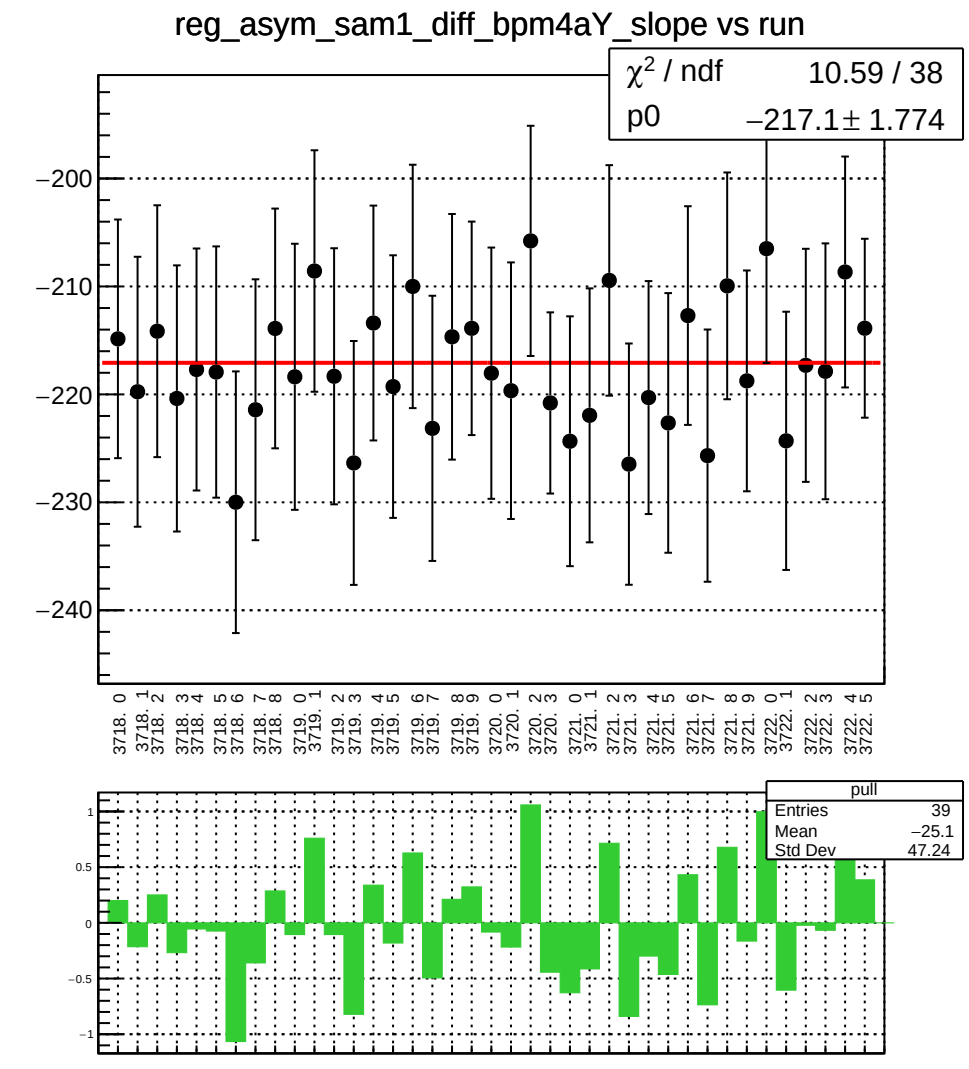

asym_sam8_correction_mean vs run
×10^3
χ² / ndf 38.38 / 38
p0 −1603 ± 5711
100
50
0
−50
−100
−150
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −290.1
Std Dev 280.2
1
0
−1
−2
−3

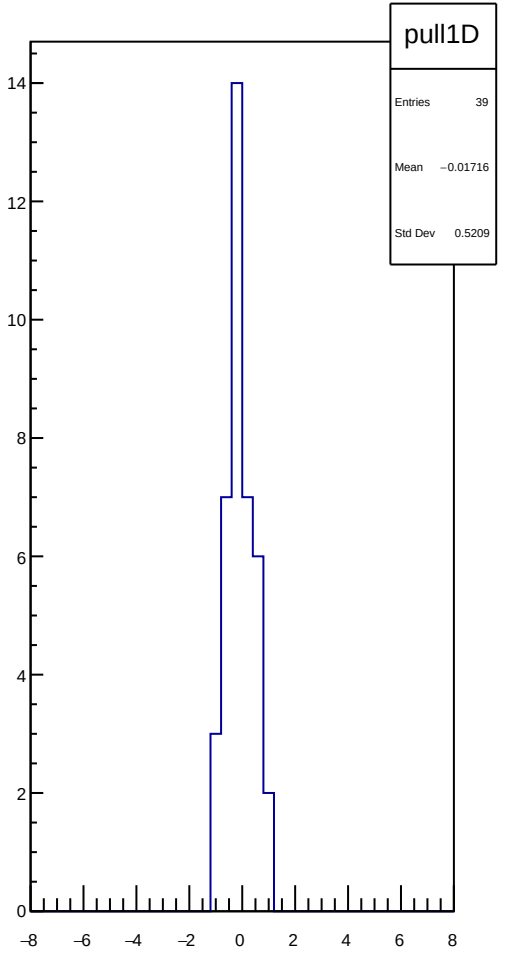

pull1D
Entries 39
Mean 0.001252
Std Dev 0.992
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

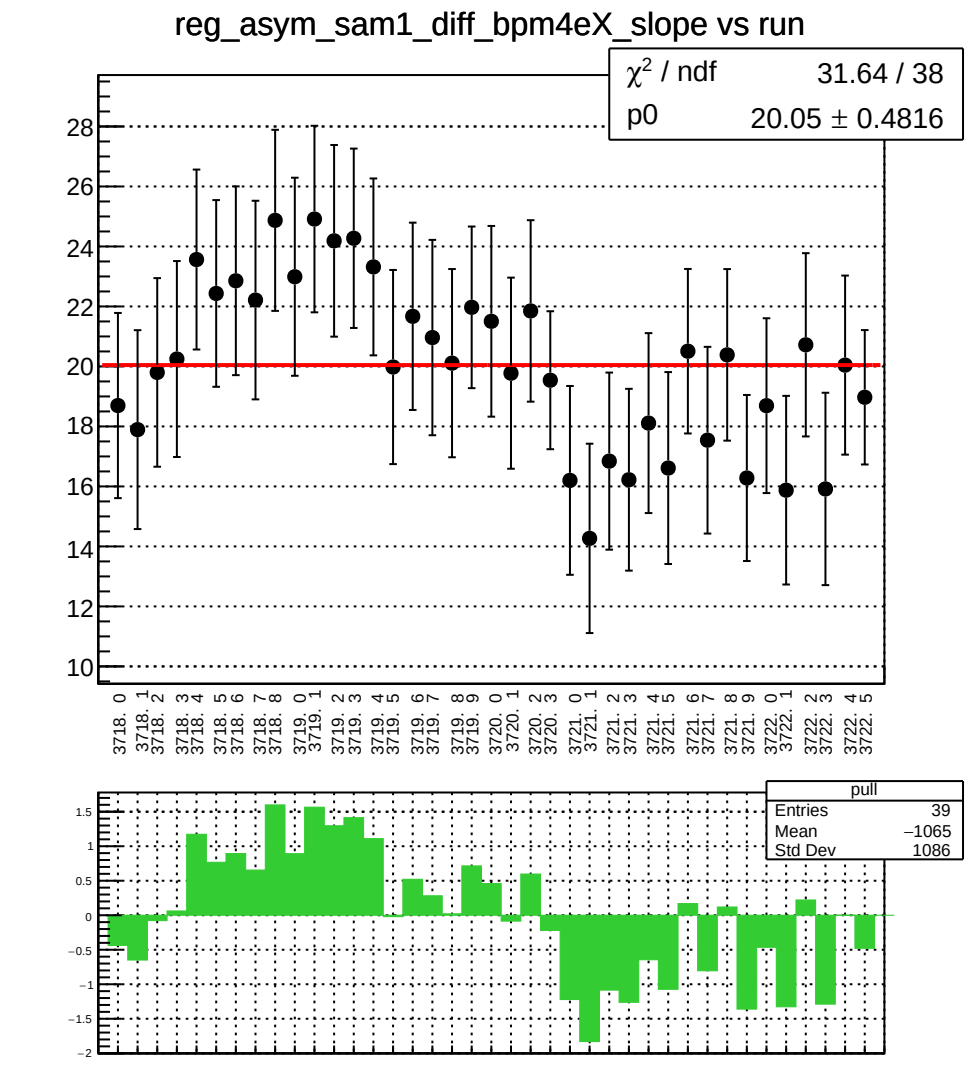

asym_sam8_correction_rms vs run
χ² / ndf 193.1 / 38
p0 3484 ± 4.038
3650
3600
3550
3500
3450
3400
3350
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5

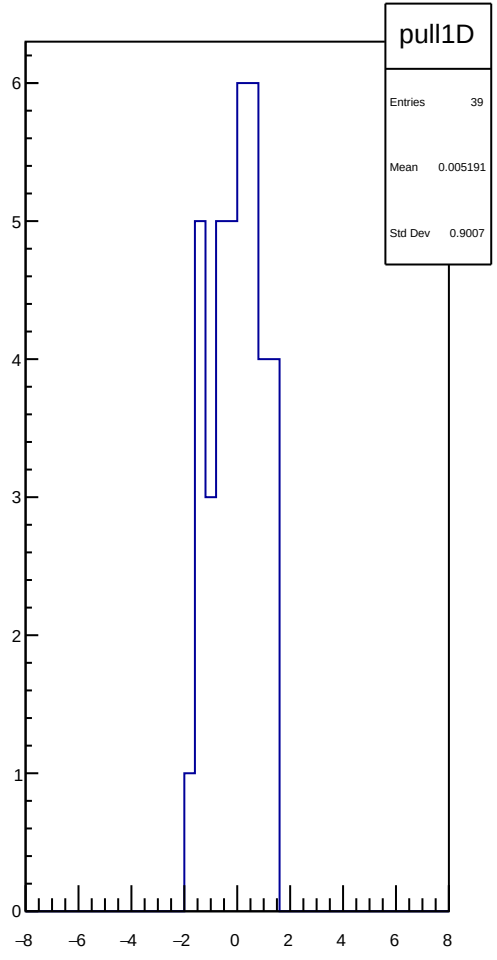

reg_asym_sam1_diff_bpm4aX_slope vs run
χ² / ndf 5.608 / 38
p0 −34.05 ± 2.456
pull
Entries 39
Mean −536.2
Std Dev 554.7

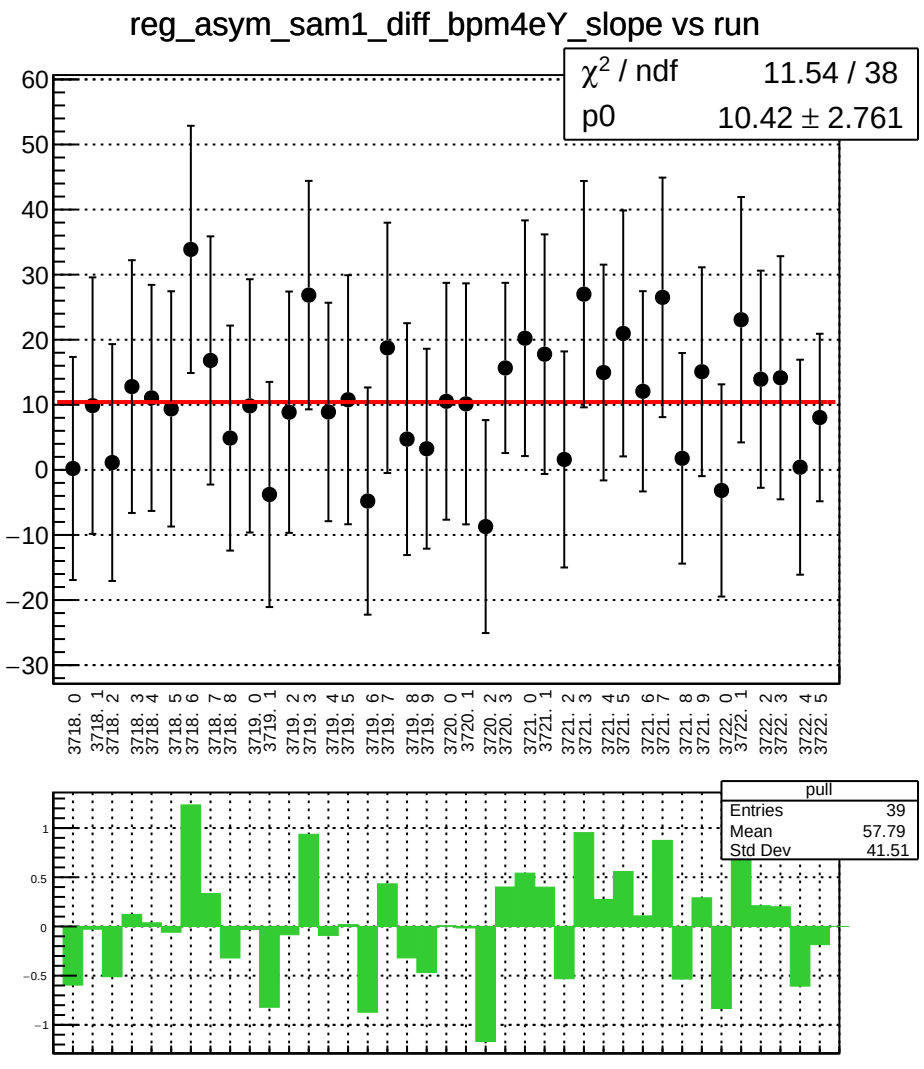

pull1D
Entries 39
Mean −0.002345
Std Dev 0.3792

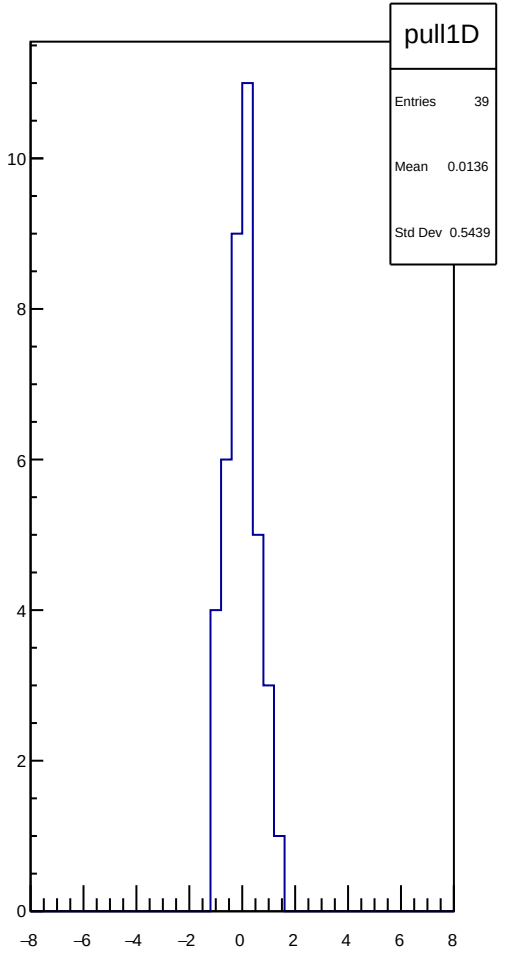

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 10.59 / 38
p0 −217.1± 1.774
−200
−210
−220
−230
−240
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −25.1
Std Dev 47.24
1
0.5
0
−0.5
−1

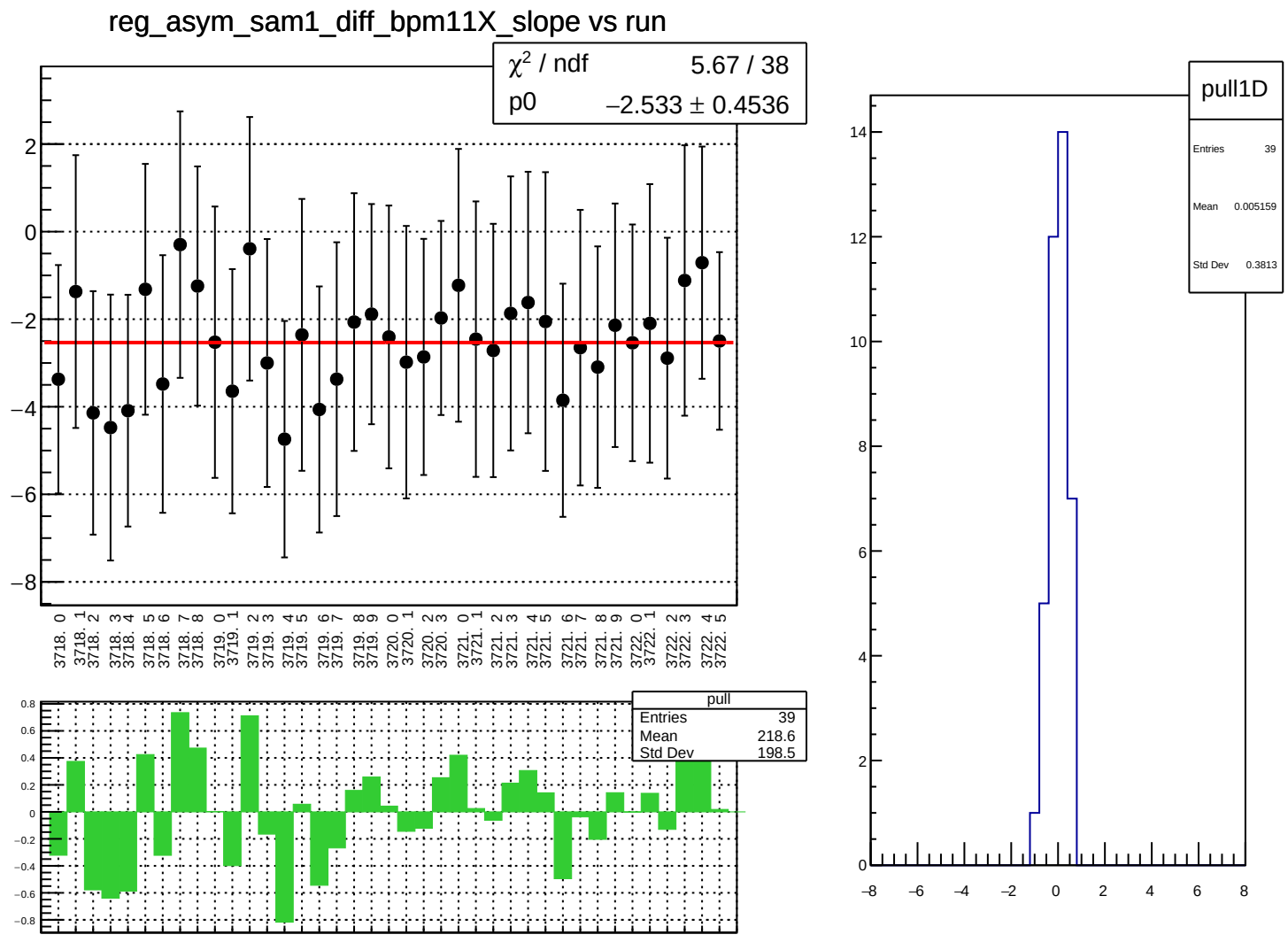

pull1D
Entries 39
Mean −0.01716
Std Dev 0.5209
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

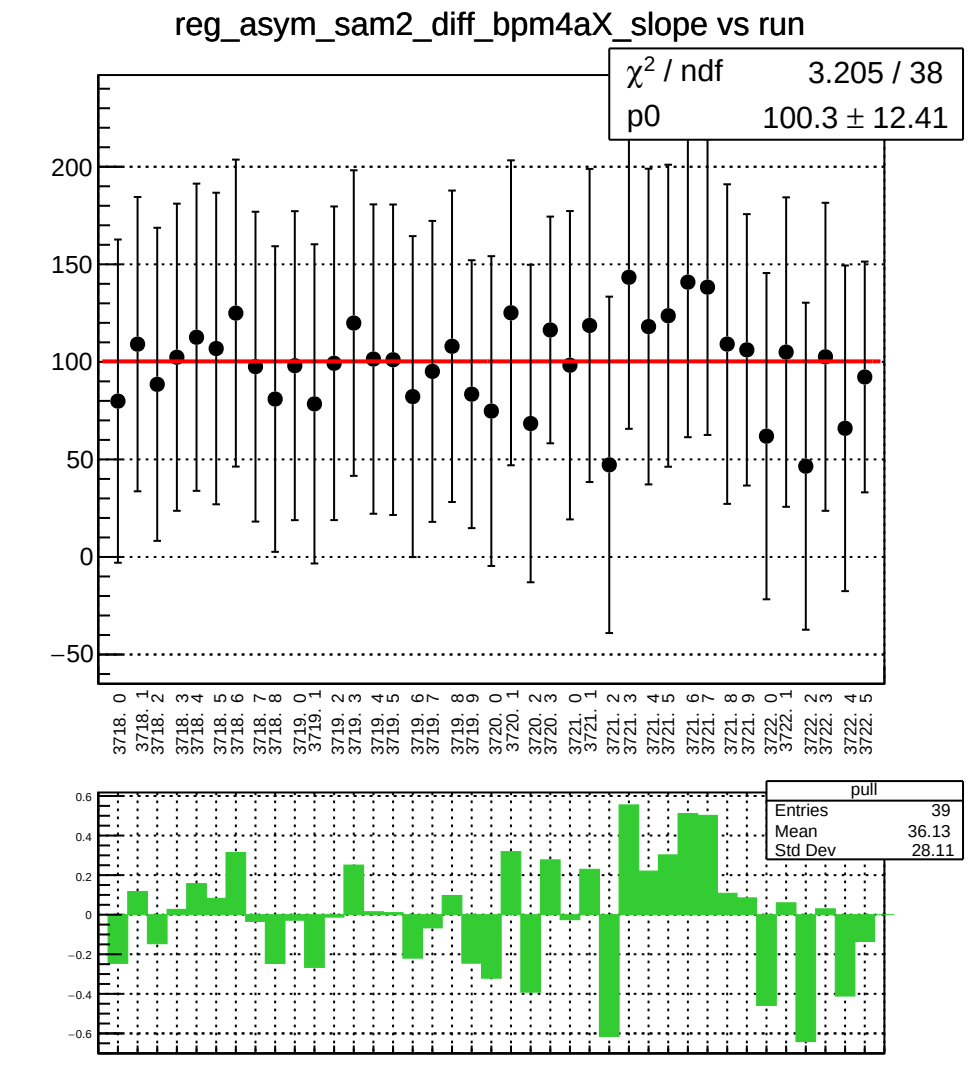

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 31.64 / 38
p0 20.05 ± 0.4816
pull
Entries 39
Mean −1065
Std Dev 1086

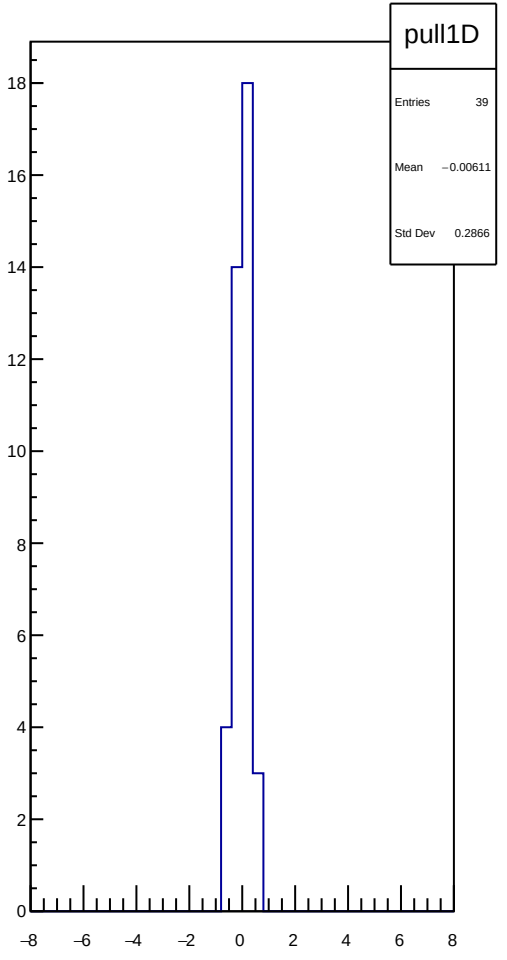

pull1D
Entries 39
Mean 0.005191
Std Dev 0.9007

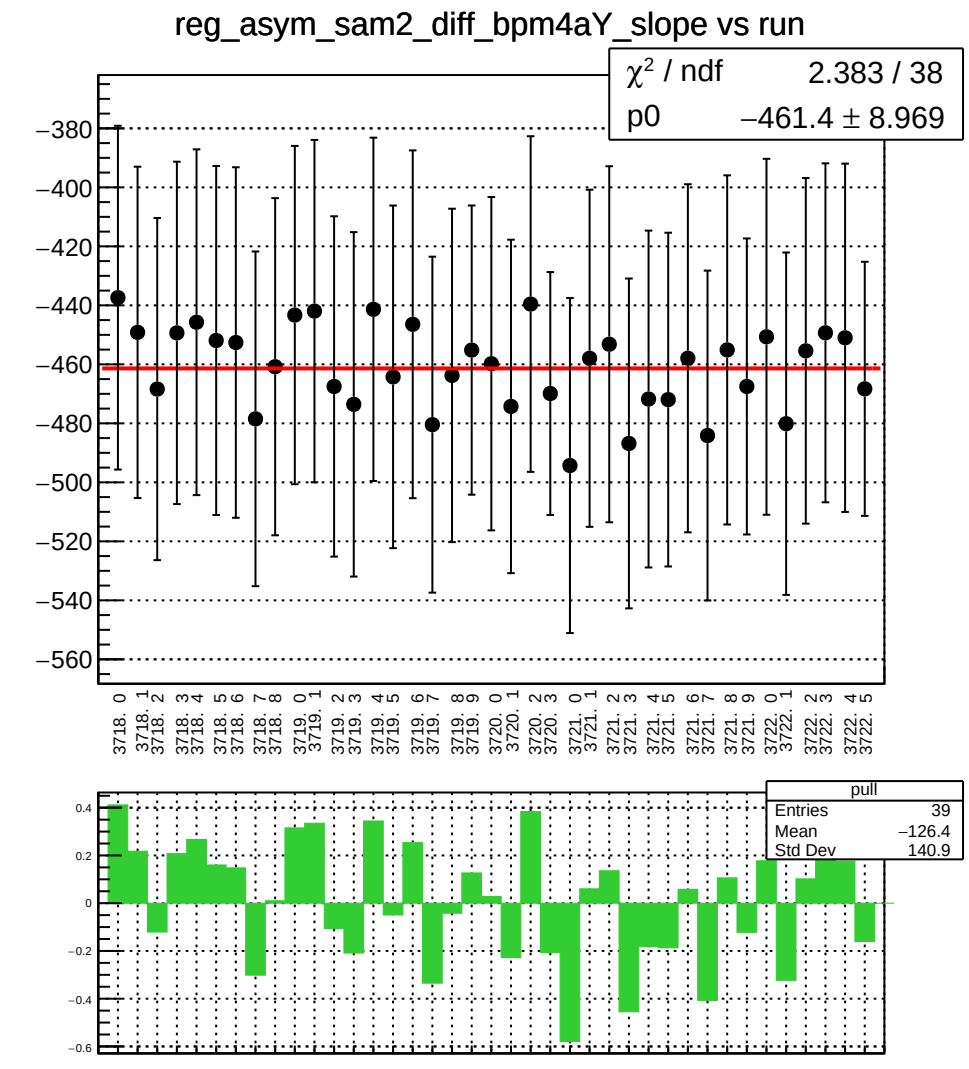

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 11.54 / 38
p0 10.42 ± 2.761
pull
Entries 39
Mean 57.79
Std Dev 41.51

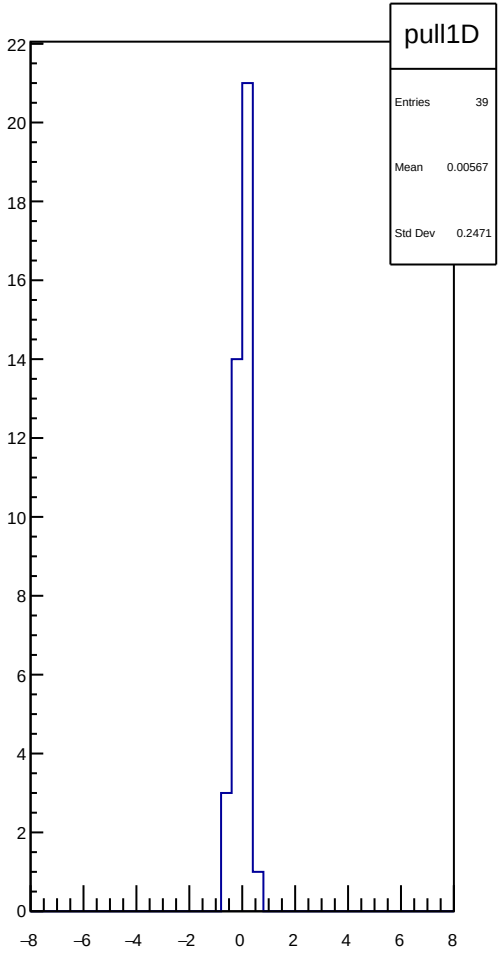

pull1D
Entries 39
Mean 0.0136
Std Dev 0.5439

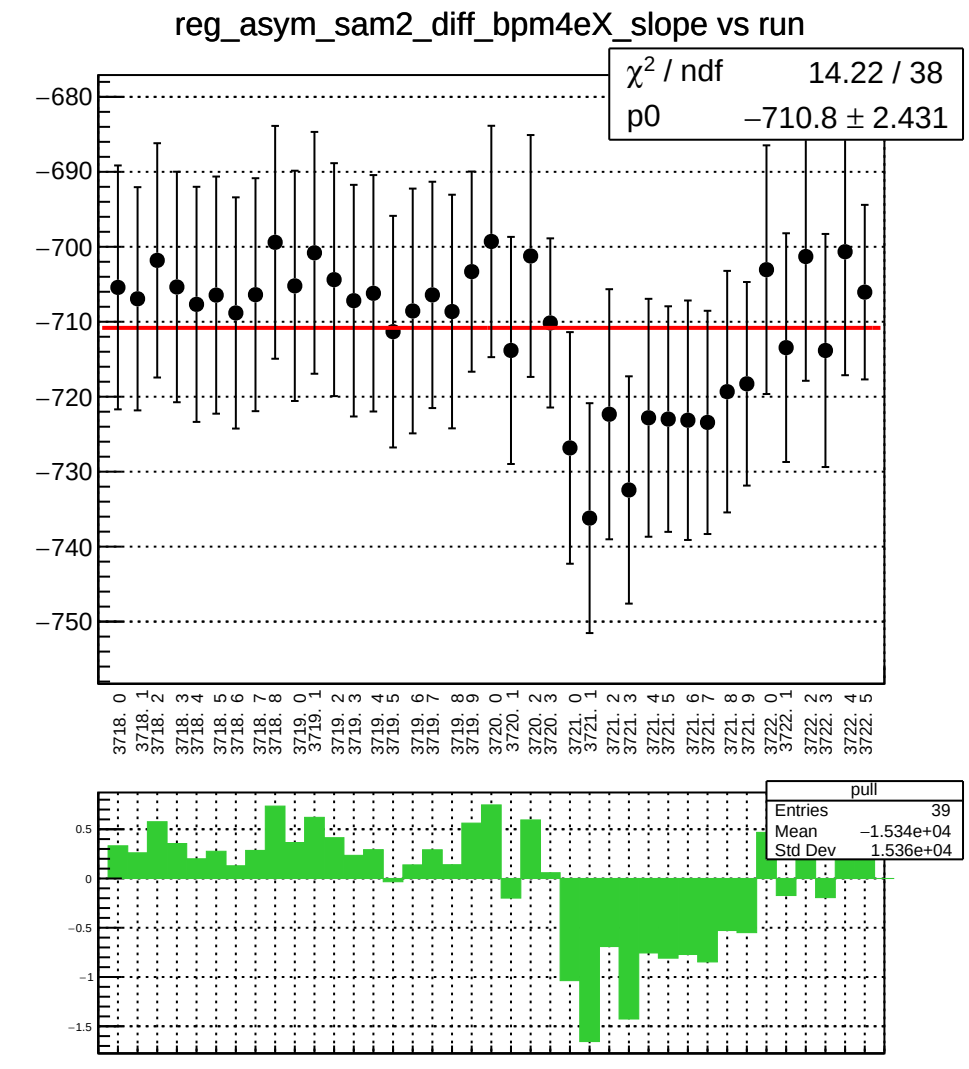

reg_asym_sam1_diff_bpm11X_slope vs run
χ² / ndf 5.67 / 38
p0 −2.533 ± 0.4536
pull
Entries 39
Mean 218.6
Std Dev 198.5
pull1D
Entries 39
Mean 0.005159
Std Dev 0.3813

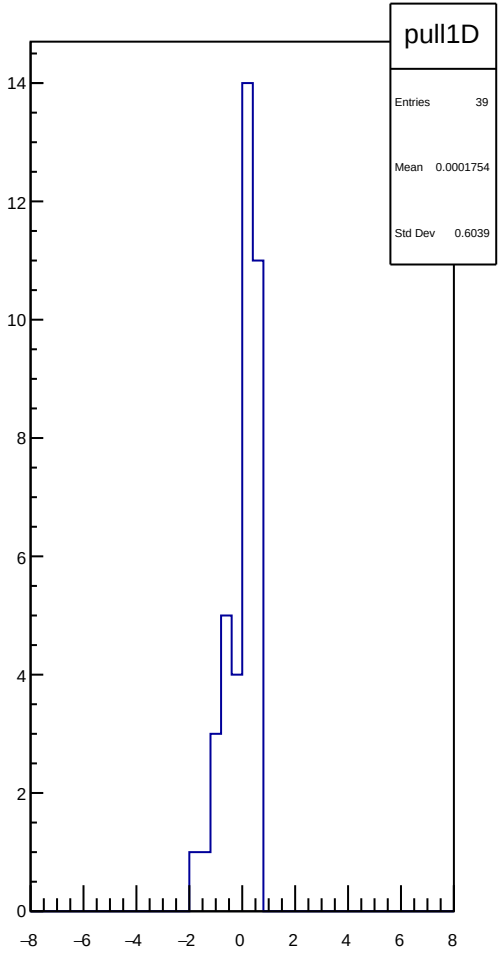

reg_asym_sam2_diff_bpm4aX_slope vs run
χ² / ndf 3.205 / 38
p0 100.3 ± 12.41
200
150
100
50
0
−50
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 36.13
Std Dev 28.11
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

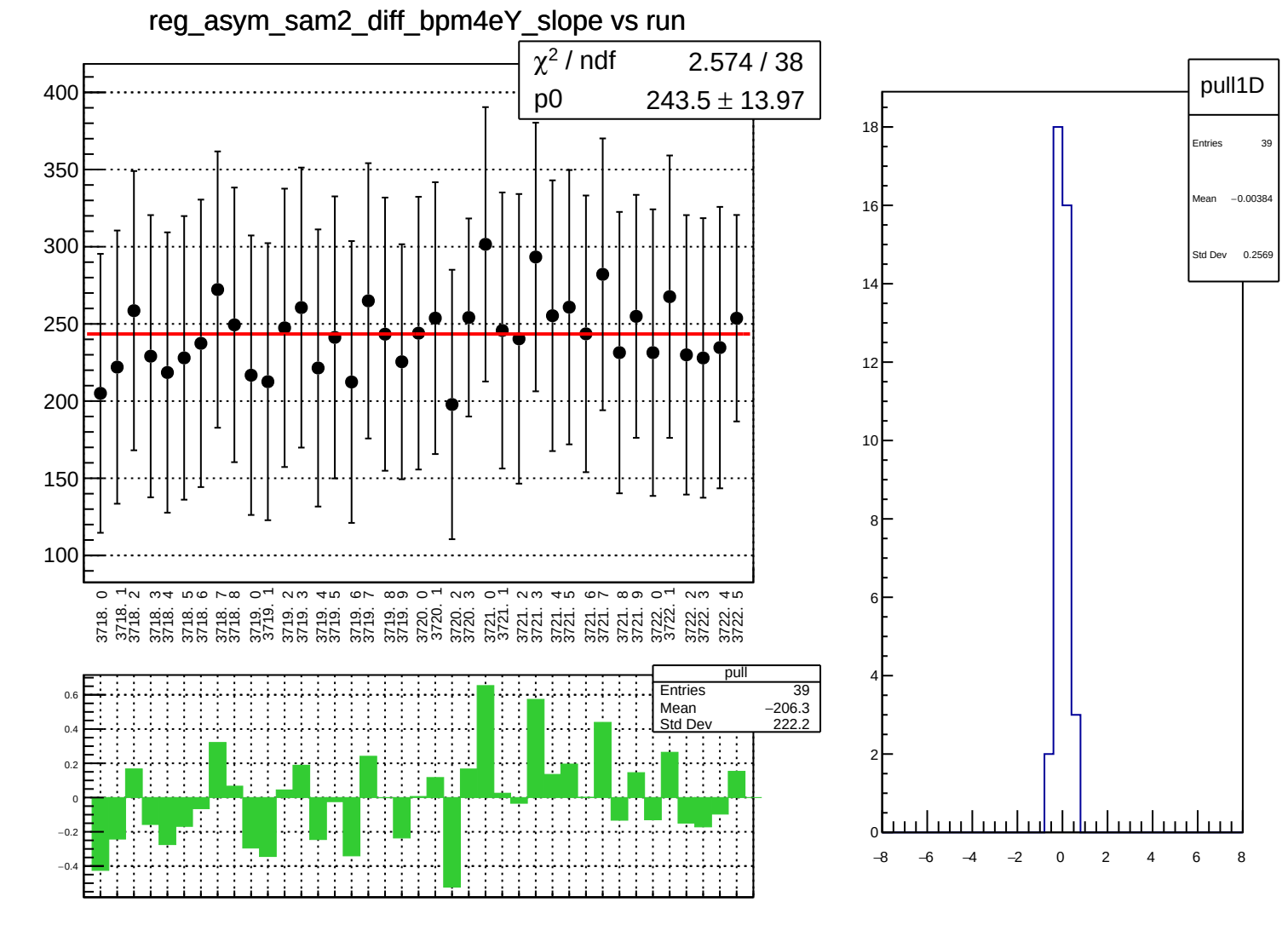

pull1D
Entries 39
Mean −0.00611
Std Dev 0.2866
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

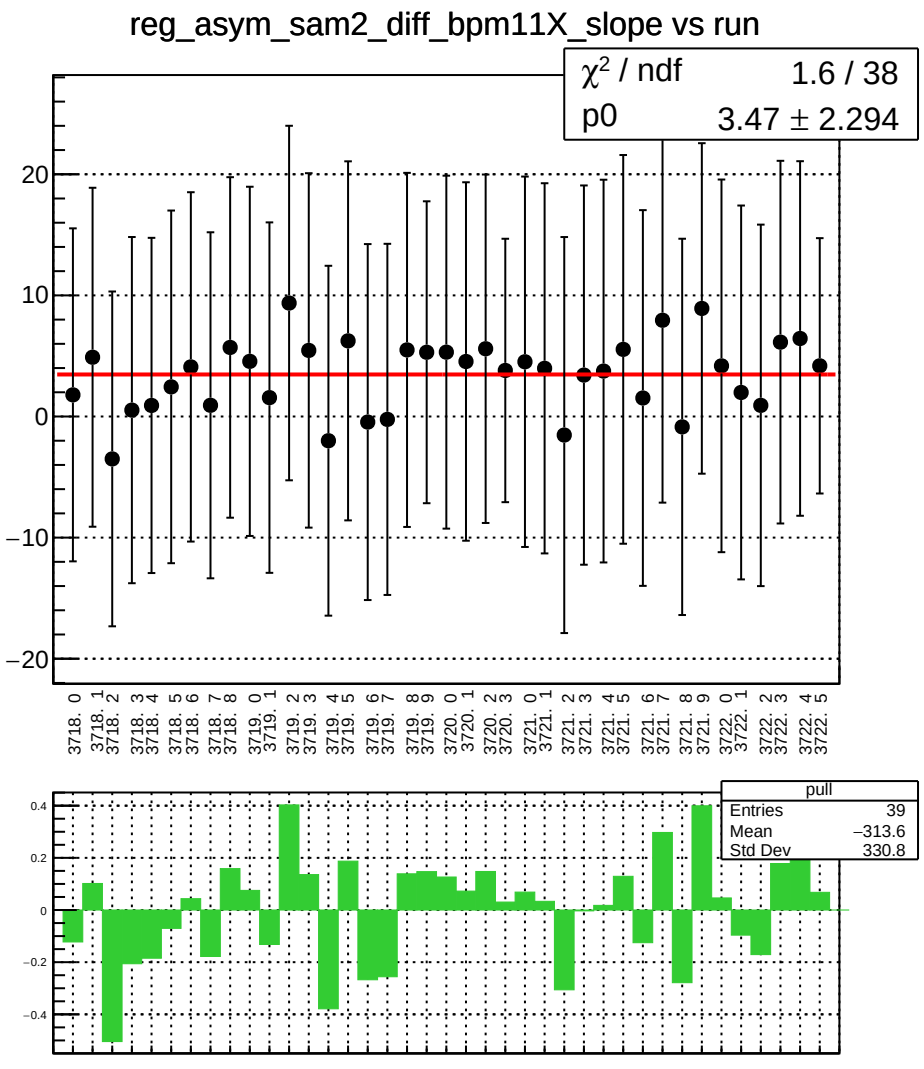

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 2.383 / 38
p0 −461.4 ± 8.969
−380
−400
−420
−440
−460
−480
−500
−520
−540
−560
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −126.4
Std Dev 140.9
0.4
0.2
0
−0.2
−0.4
−0.6

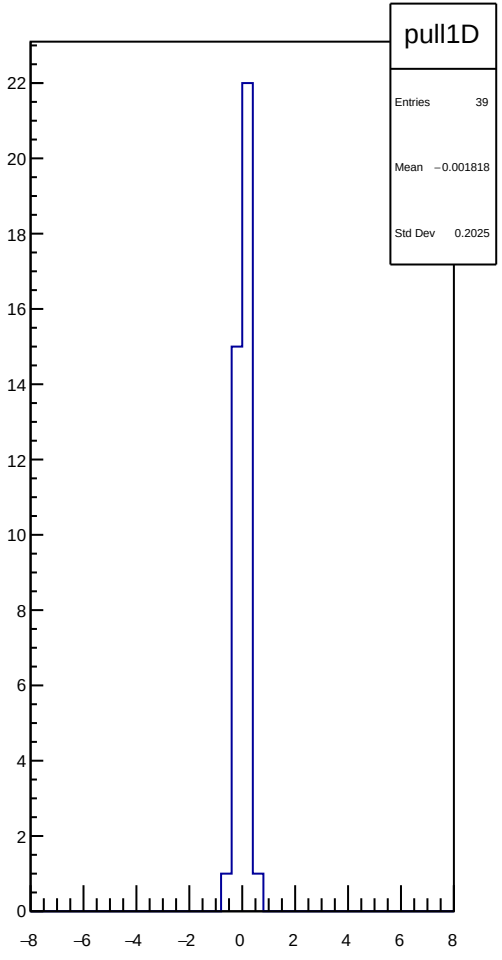

pull1D
Entries 39
Mean 0.00567
Std Dev 0.2471
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

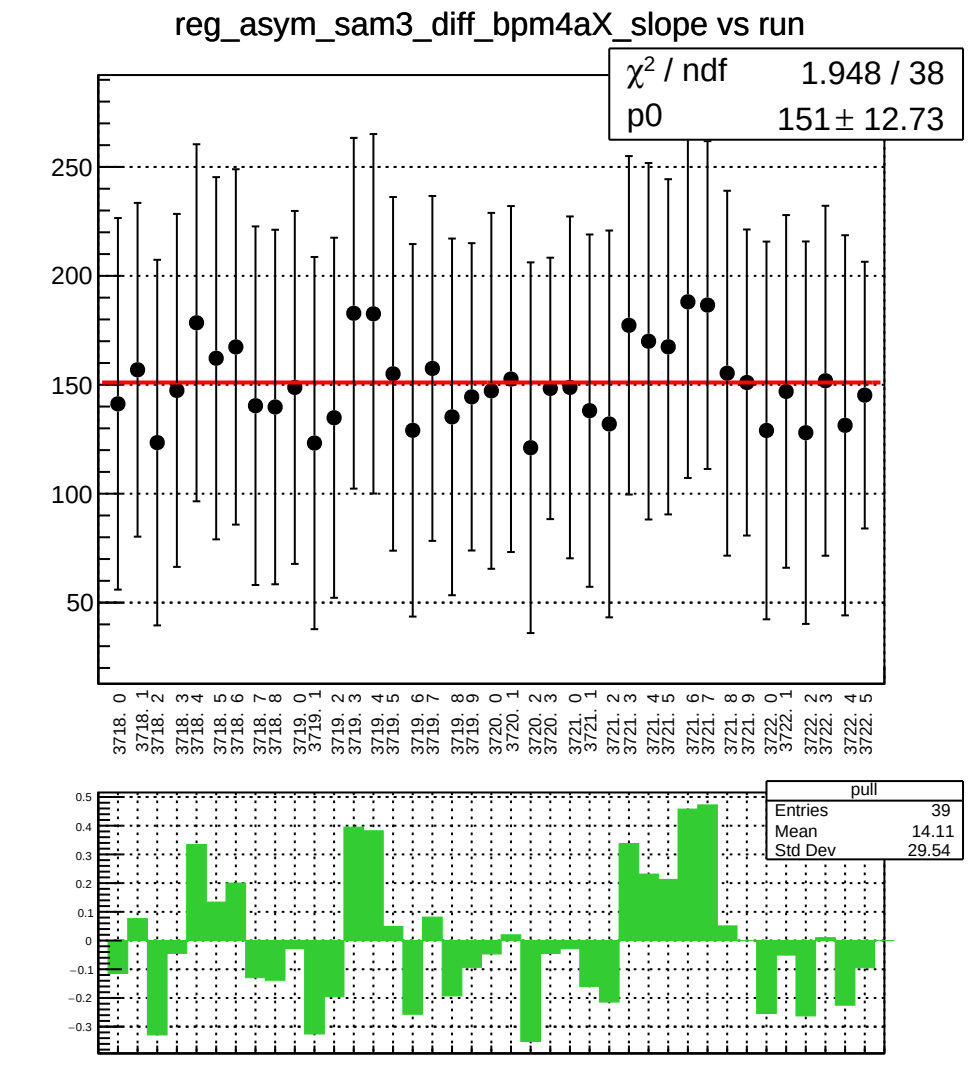

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 14.22 / 38
p0 −710.8 ± 2.431
−680
−690
−700
−710
−720
−730
−740
−750
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −1.534e+04
Std Dev 1.536e+04
0.5
0
−0.5
−1
−1.5

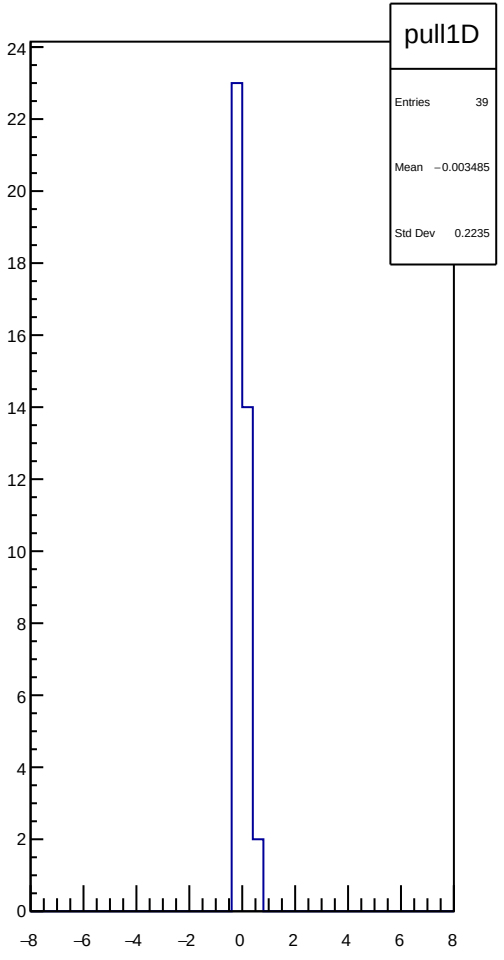

pull1D
Entries 39
Mean 0.0001754
Std Dev 0.6039
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

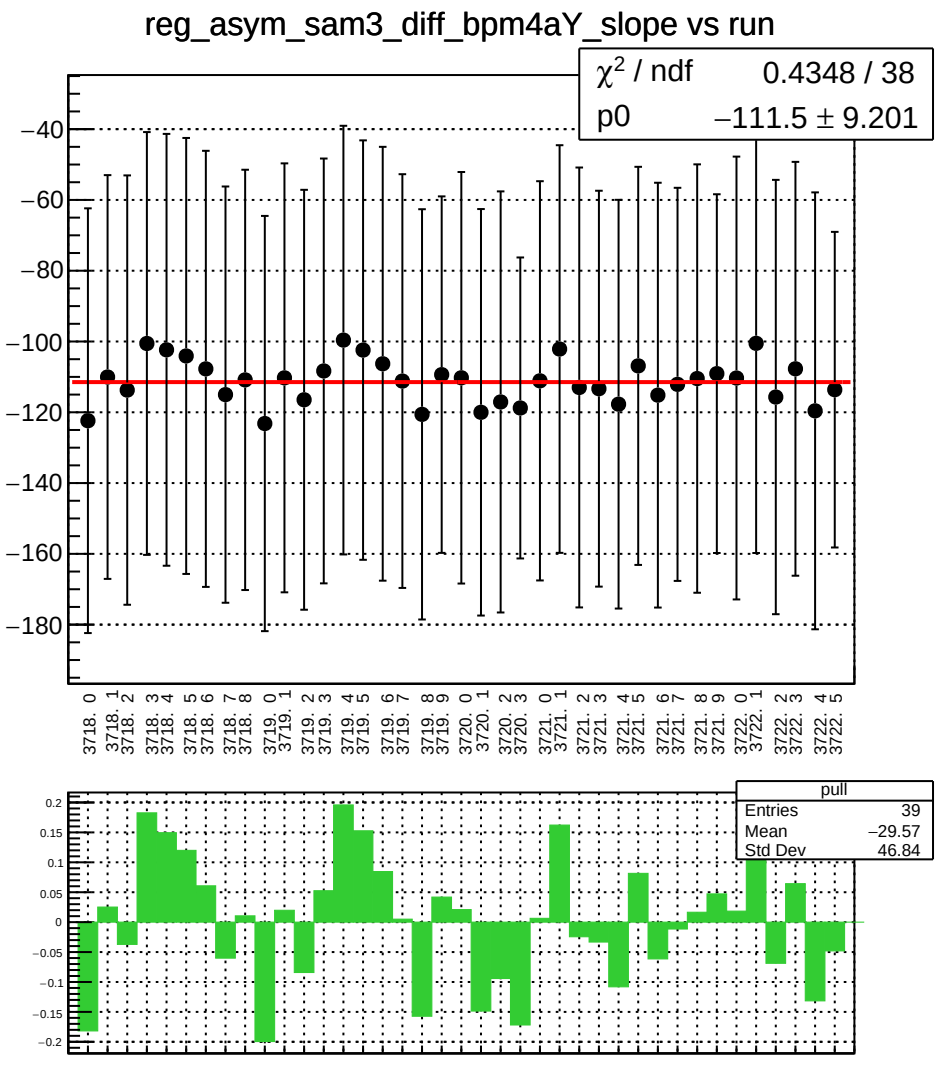

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 2.574 / 38
p0 243.5 ± 13.97
400
350
300
250
200
150
100
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −206.3
Std Dev 222.2
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 39
Mean −0.00384
Std Dev 0.2569
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

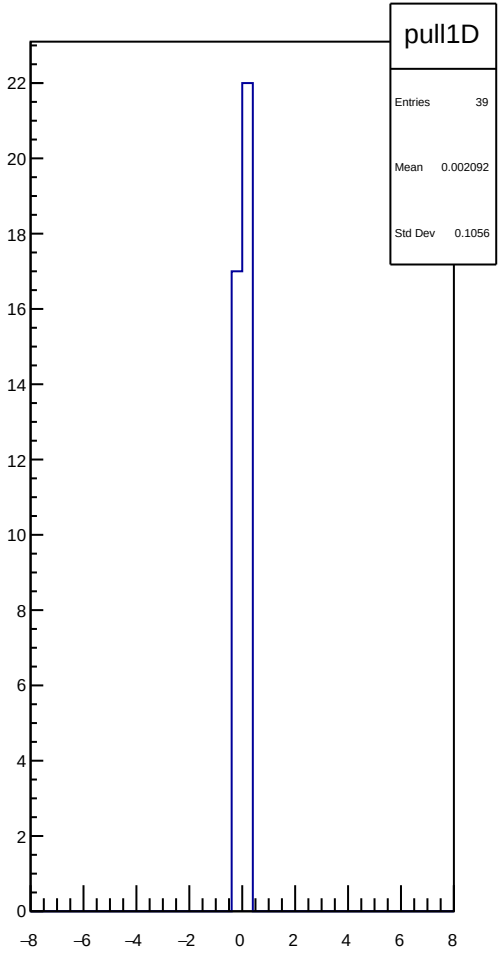

reg_asym_sam2_diff_bpm11X_slope vs run
χ² / ndf 1.6 / 38
p0 3.47 ± 2.294
pull
Entries 39
Mean −313.6
Std Dev 330.8

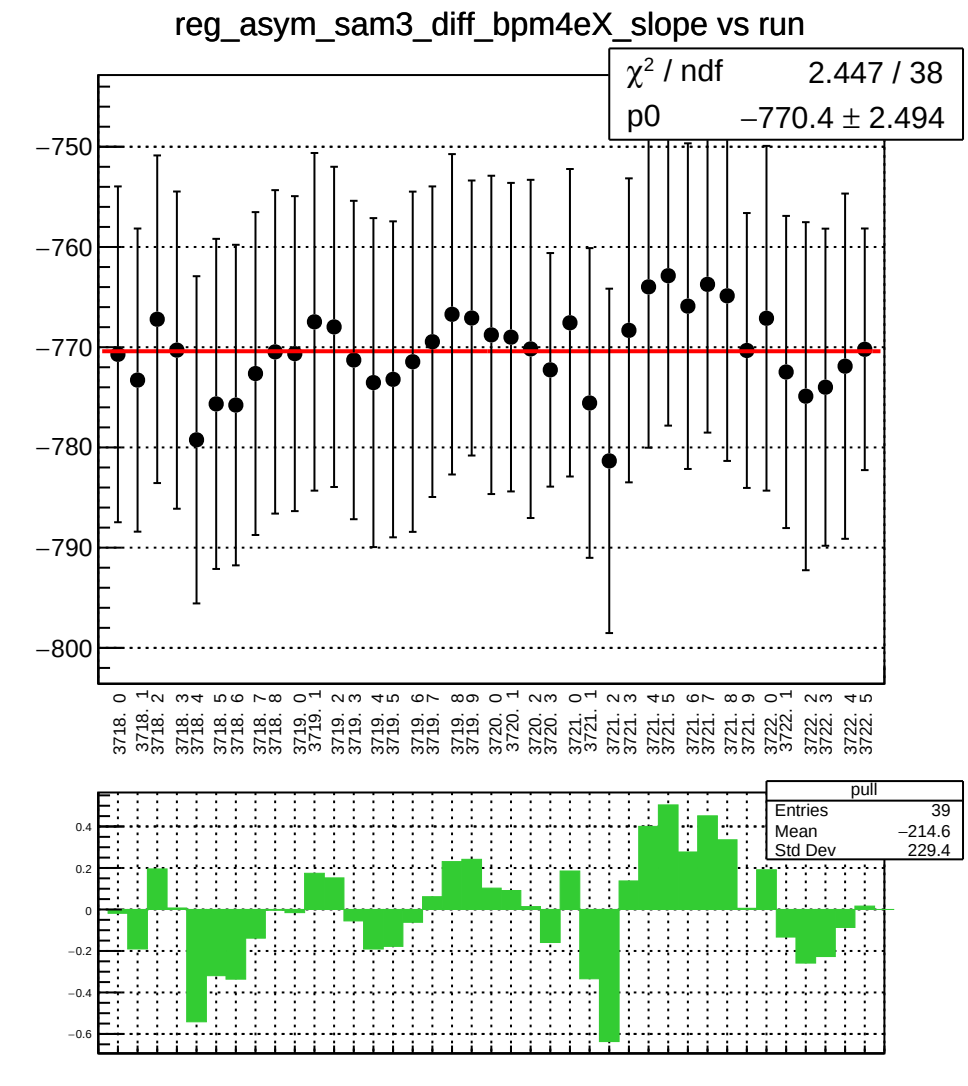

pull1D
Entries 39
Mean −0.001818
Std Dev 0.2025

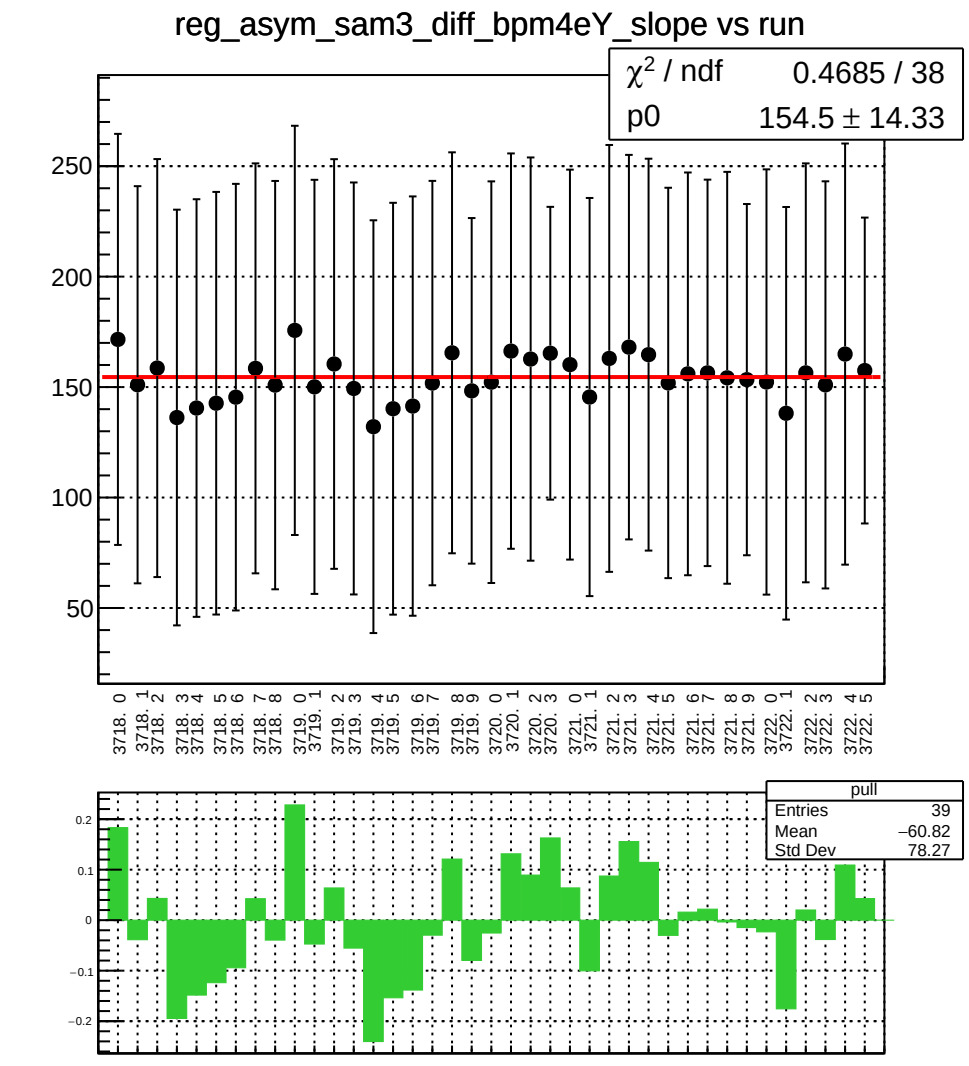

reg_asym_sam3_diff_bpm4aX_slope vs run
χ² / ndf 1.948 / 38
p0 151 ± 12.73
250
200
150
100
50
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 14.11
Std Dev 29.54
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

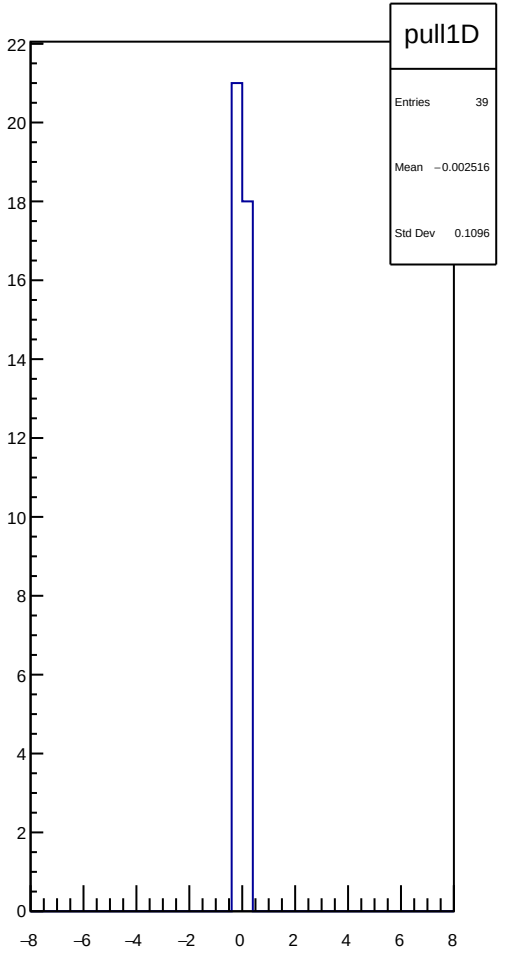

pull1D
Entries 39
Mean −0.003485
Std Dev 0.2235
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

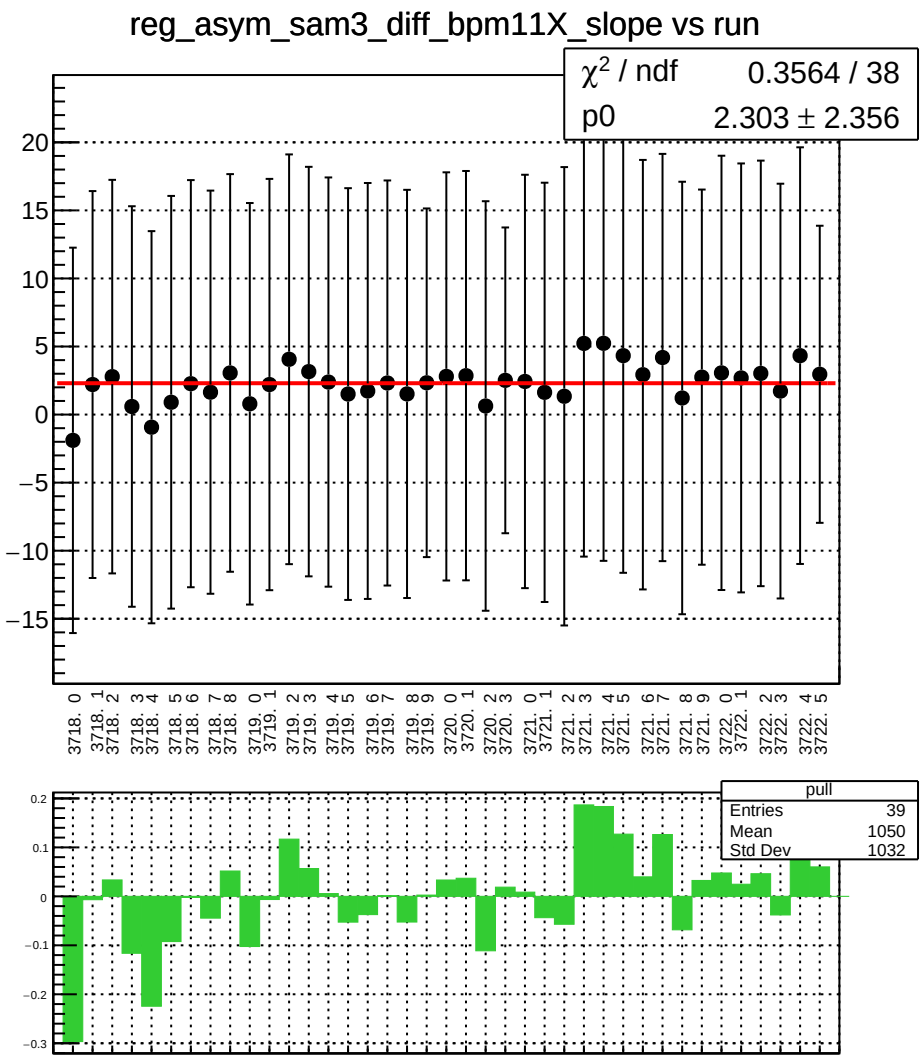

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 0.4348 / 38
p0 −111.5 ± 9.201
−40
−60
−80
−100
−120
−140
−160
−180
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −29.57
Std Dev 46.84
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2

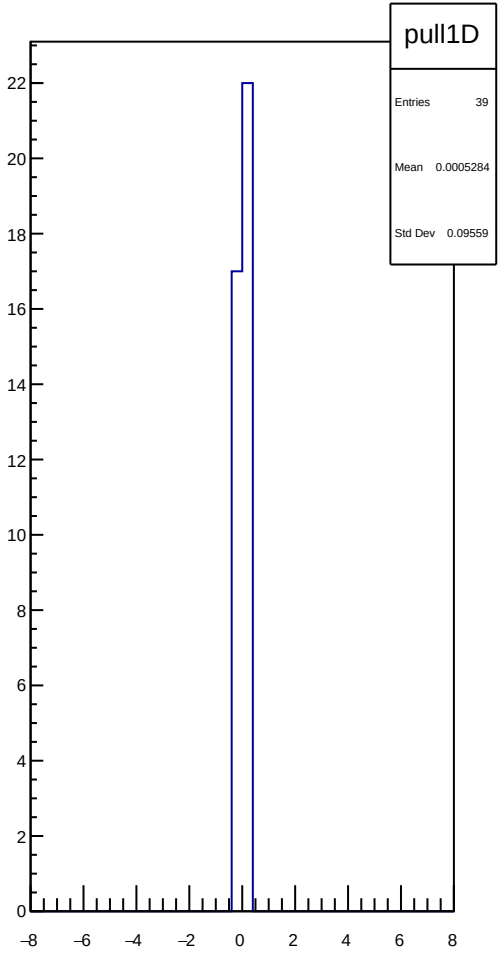

pull1D
Entries 39
Mean 0.002092
Std Dev 0.1056
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

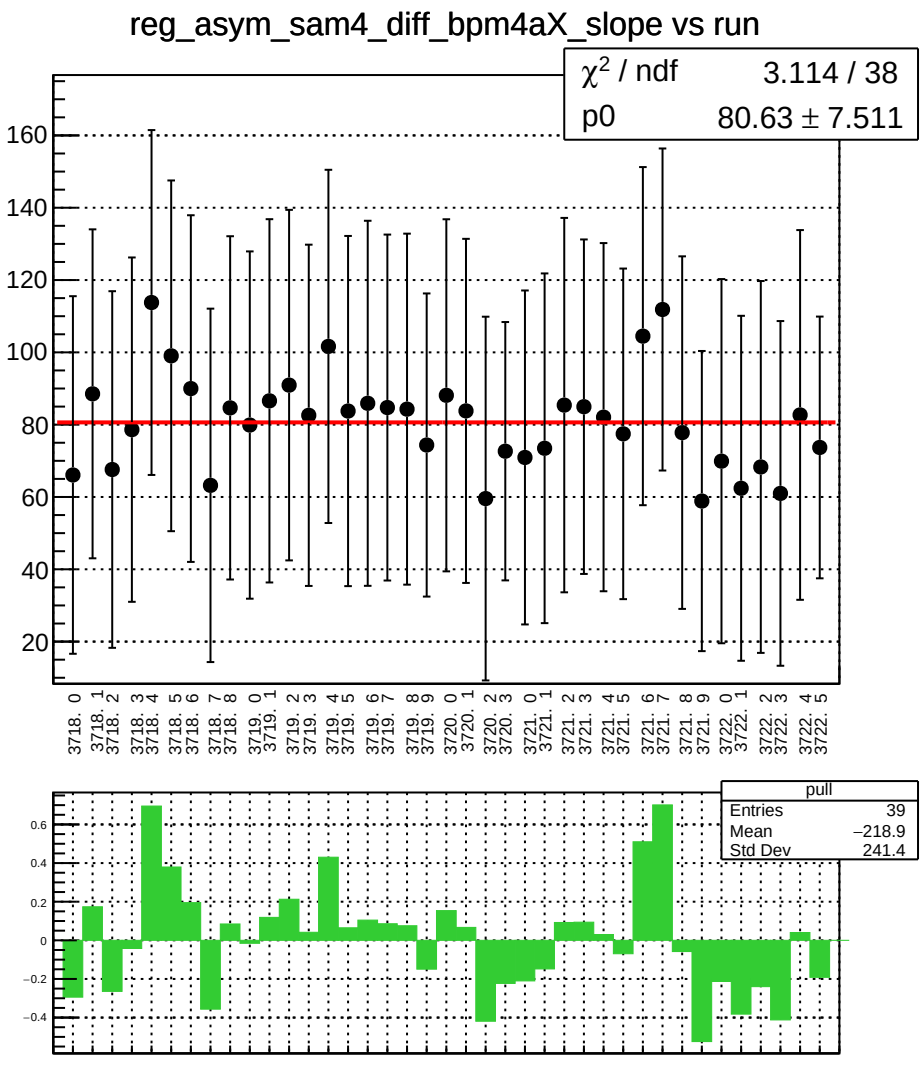

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 2.447 / 38
p0 −770.4 ± 2.494
−750
−760
−770
−780
−790
−800
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −214.6
Std Dev 229.4
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 39
Mean −0.002739
Std Dev 0.2505
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

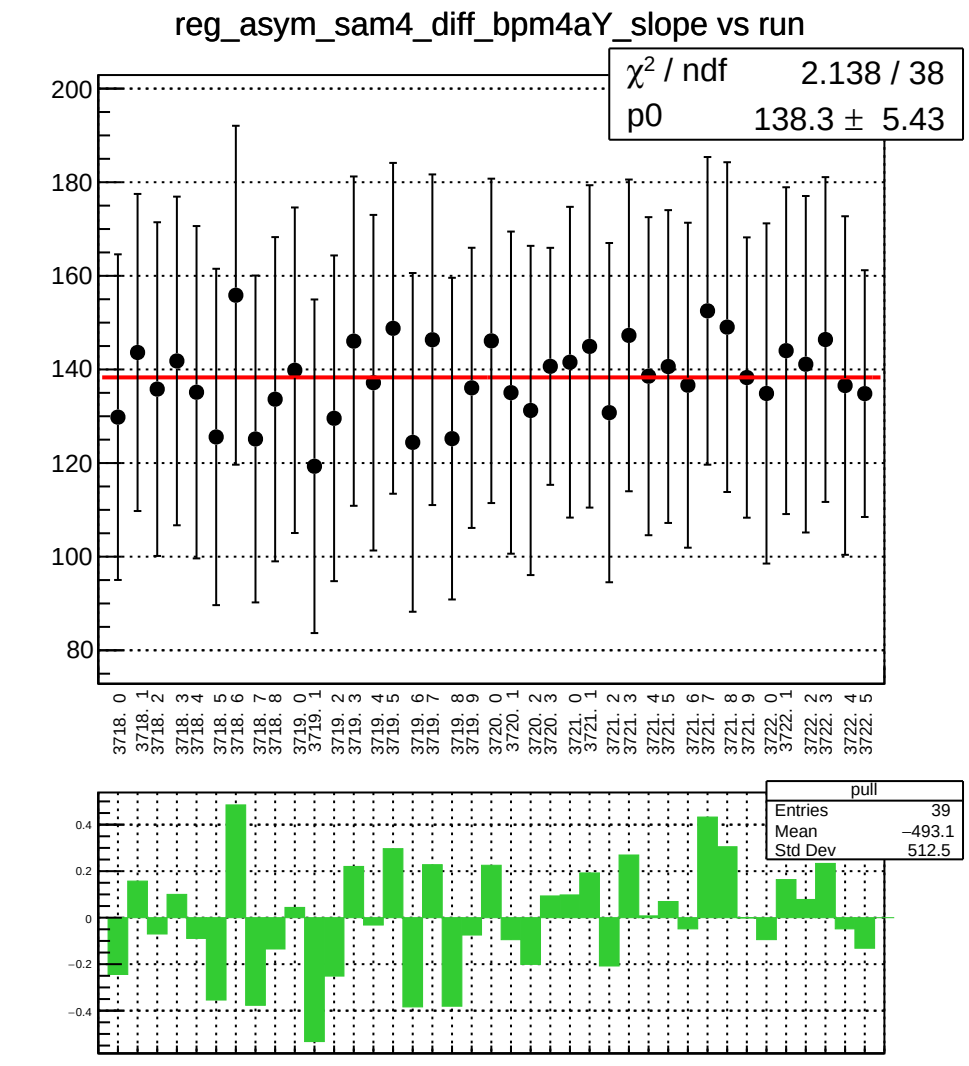

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 0.4685 / 38
p0 154.5 ± 14.33
250
200
150
100
50
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −60.82
Std Dev 78.27
0.2
0.1
0
−0.1
−0.2

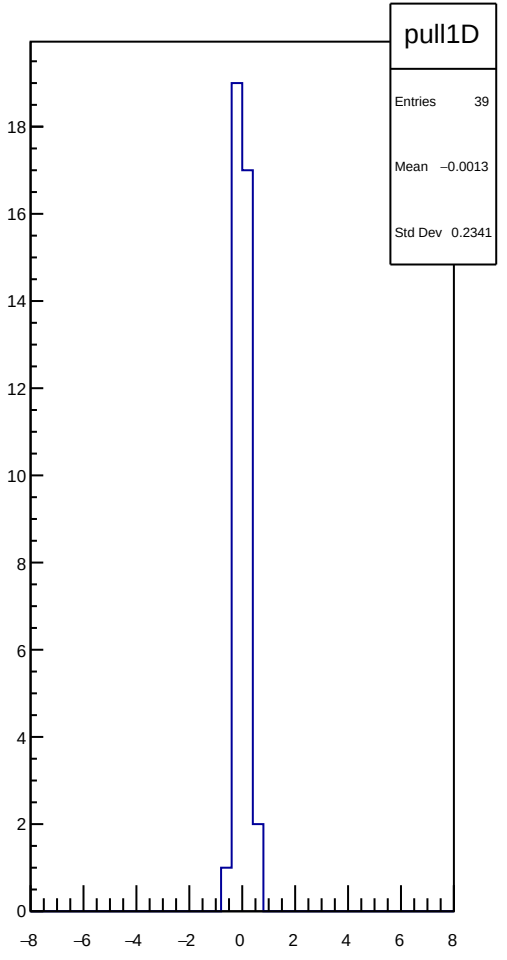

pull1D
Entries 39
Mean −0.002516
Std Dev 0.1096
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

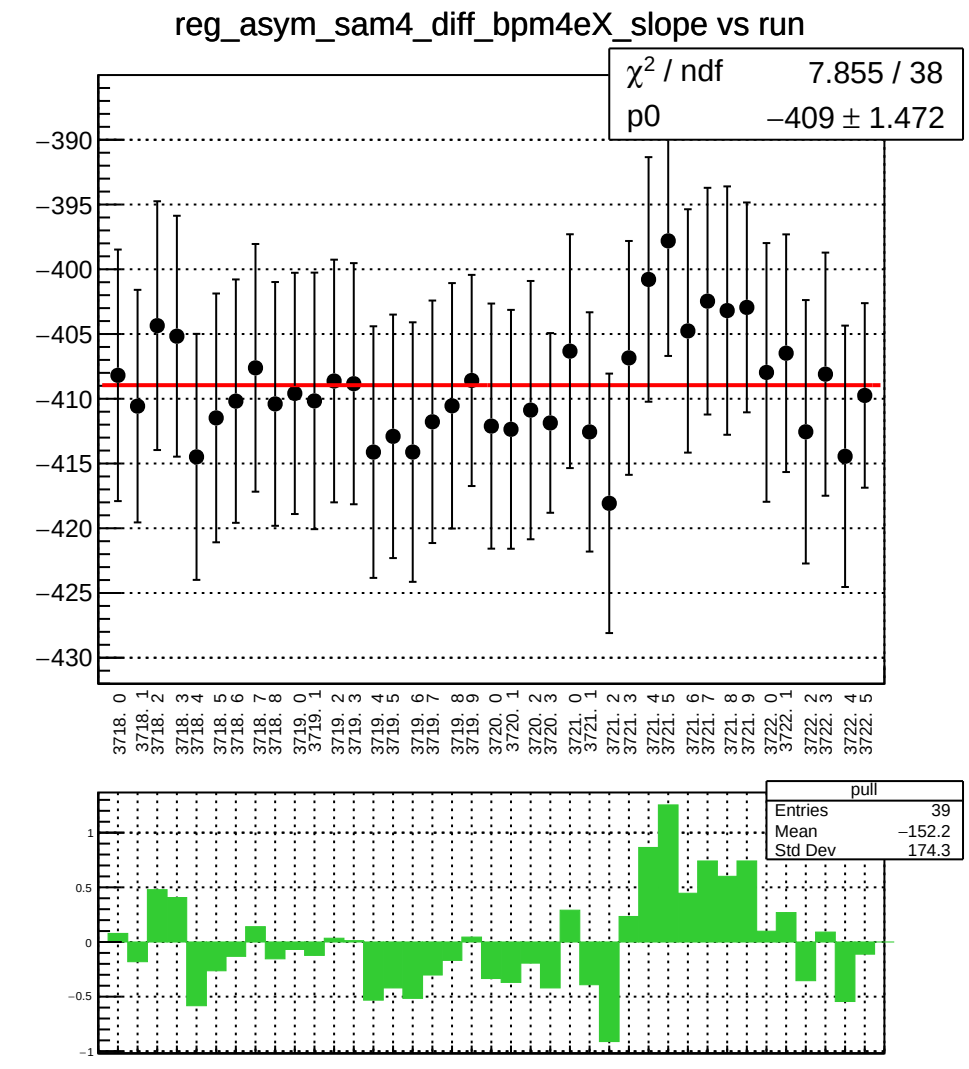

reg_asym_sam3_diff_bpm11X_slope vs run
χ² / ndf 0.3564 / 38
p0 2.303 ± 2.356
pull
Entries 39
Mean 1050
Std Dev 1032

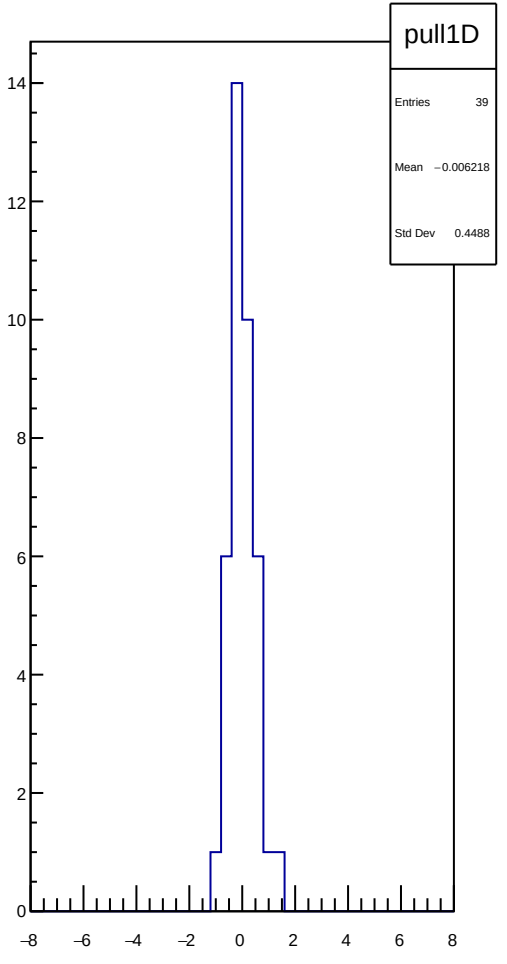

pull1D
Entries 39
Mean 0.0005284
Std Dev 0.09559

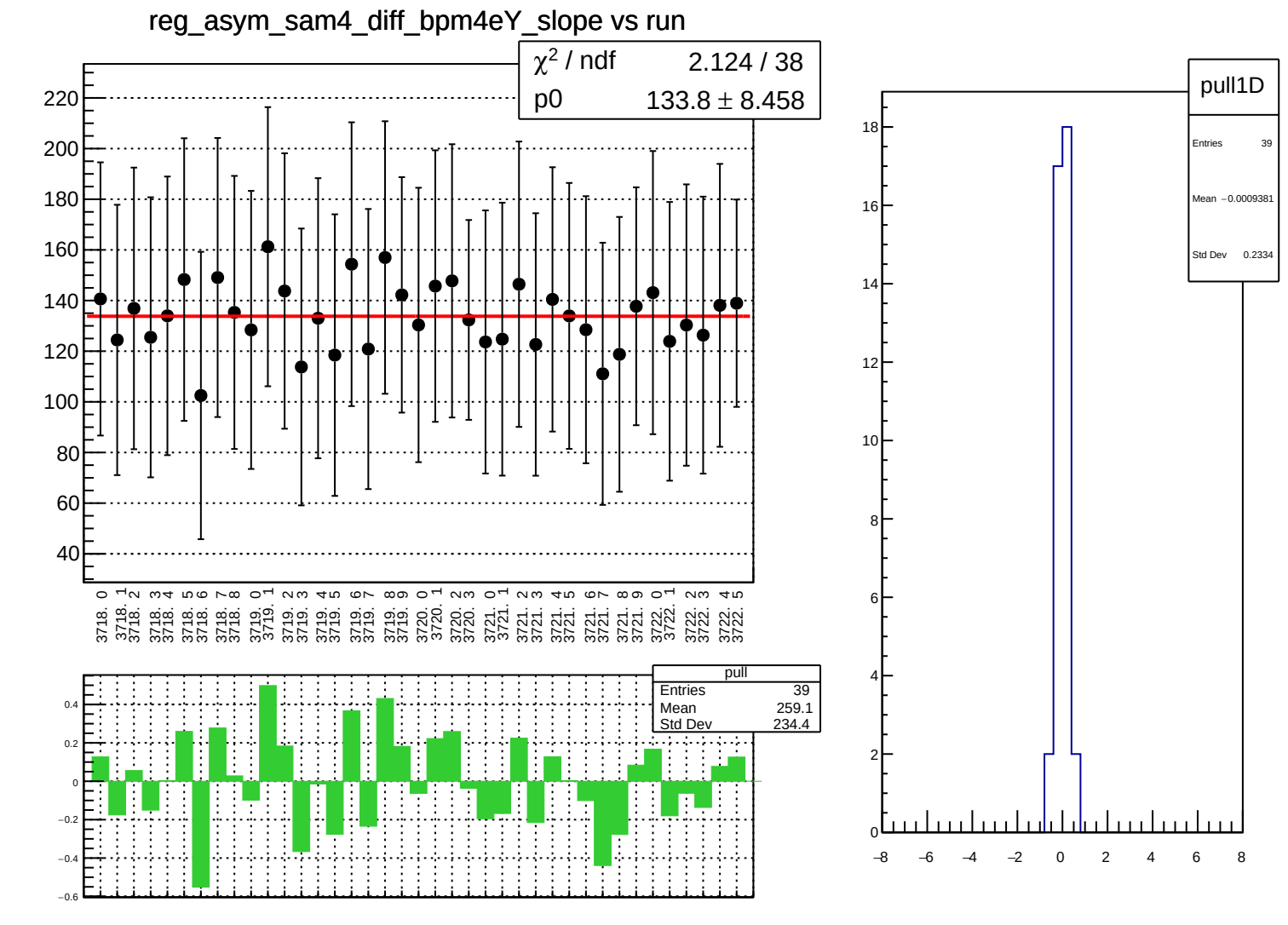

reg_asym_sam4_diff_bpm4aX_slope vs run
χ² / ndf 3.114 / 38
p0 80.63 ± 7.511
160
140
120
100
80
60
40
20
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −218.9
Std Dev 241.4
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 39
Mean 0.003566
Std Dev 0.2825
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

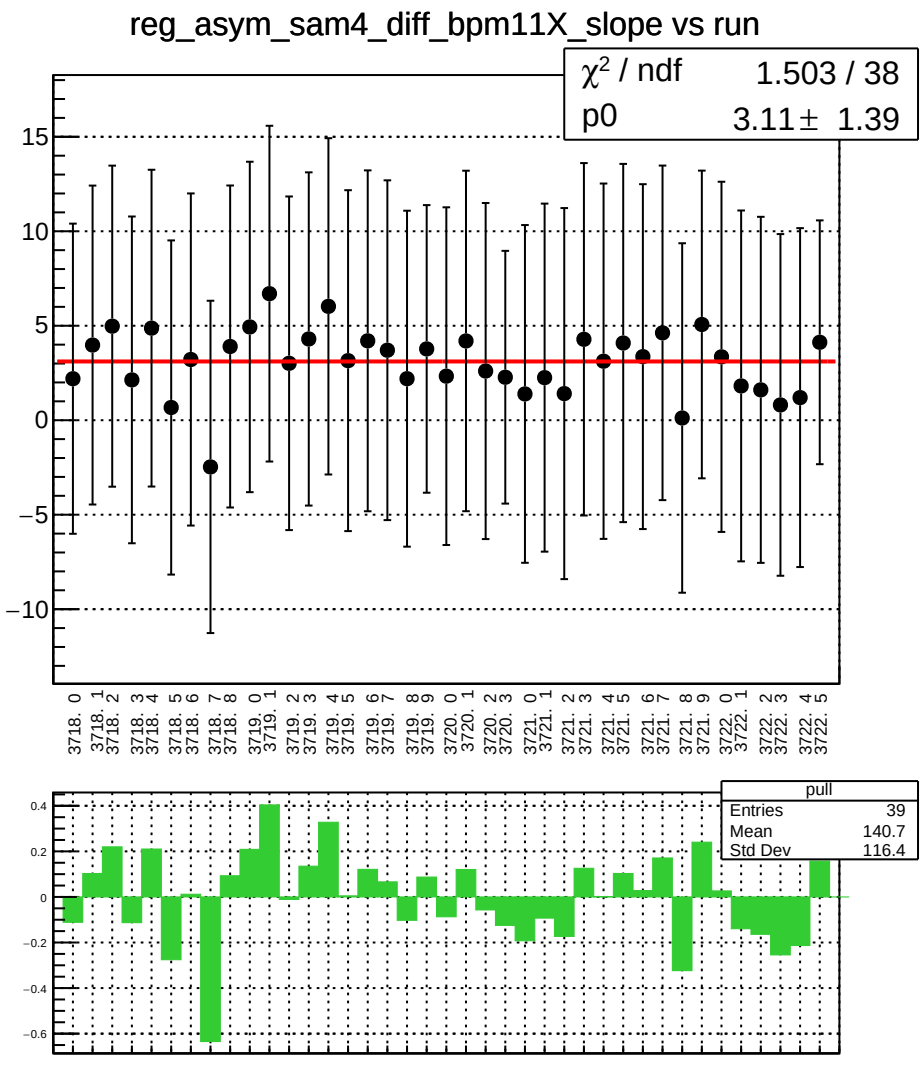

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 2.138 / 38
p0 138.3 ± 5.43
200
180
160
140
120
100
80
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −493.1
Std Dev 512.5
0.4
0.2
0
−0.2
−0.4

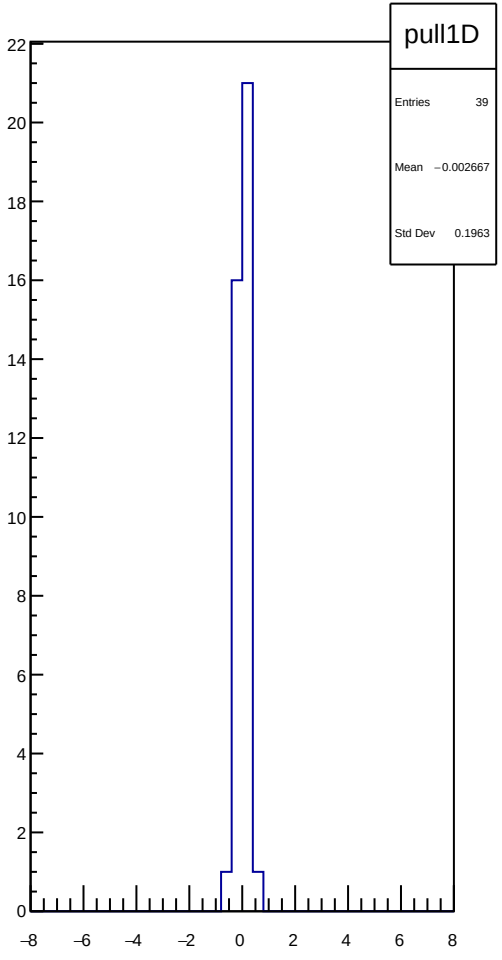

pull1D
Entries 39
Mean −0.0013
Std Dev 0.2341
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

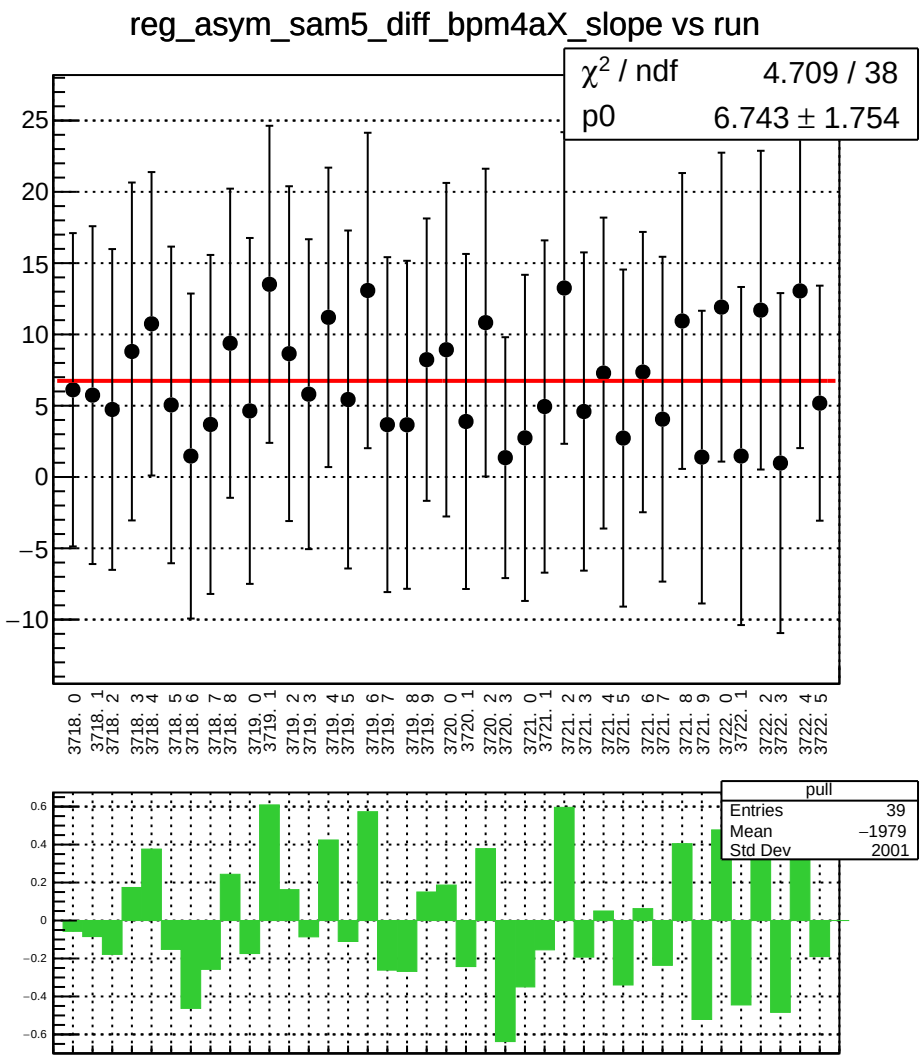

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 7.855 / 38
p0 −409 ± 1.472
−390
−395
−400
−405
−410
−415
−420
−425
−430
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −152.2
Std Dev 174.3
1
0.5
0
−0.5
−1

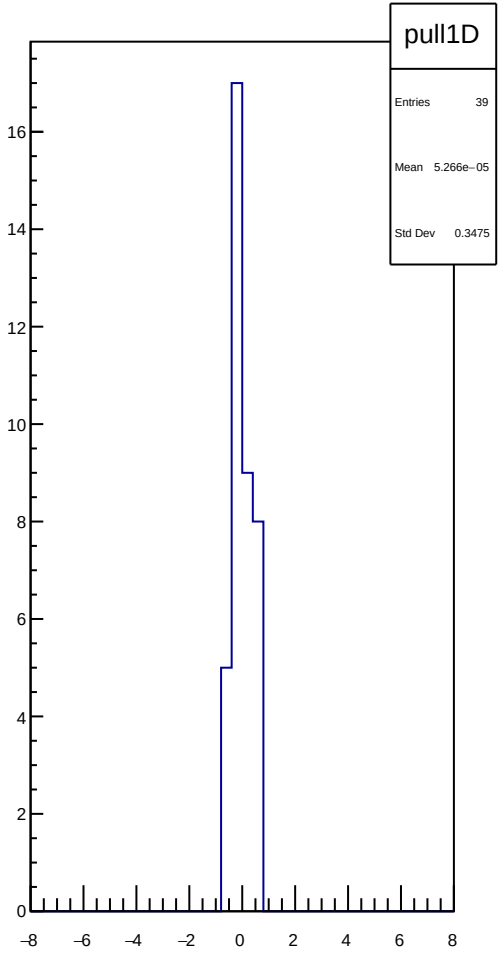

pull1D
Entries 39
Mean −0.006218
Std Dev 0.4488
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

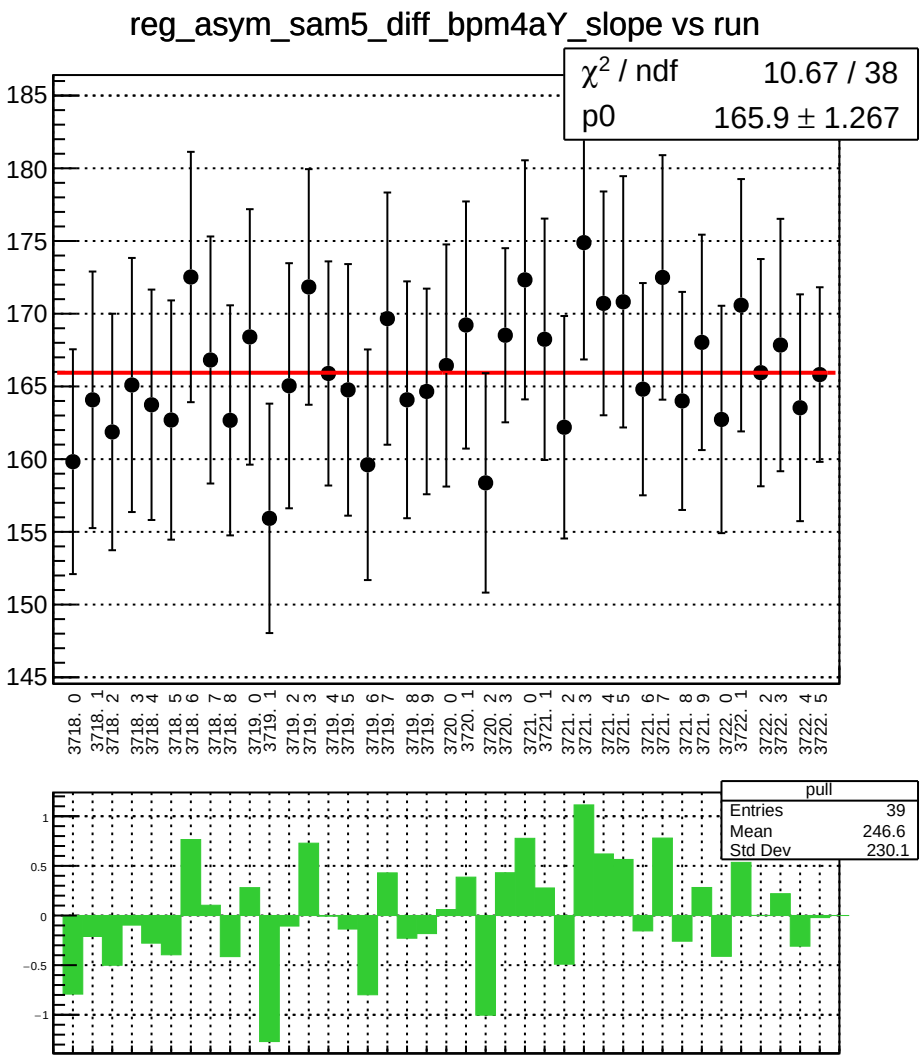

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 2.124 / 38
p0 133.8 ± 8.458
pull
Entries 39
Mean 259.1
Std Dev 234.4
pull1D
Entries 39
Mean −0.0009381
Std Dev 0.2334

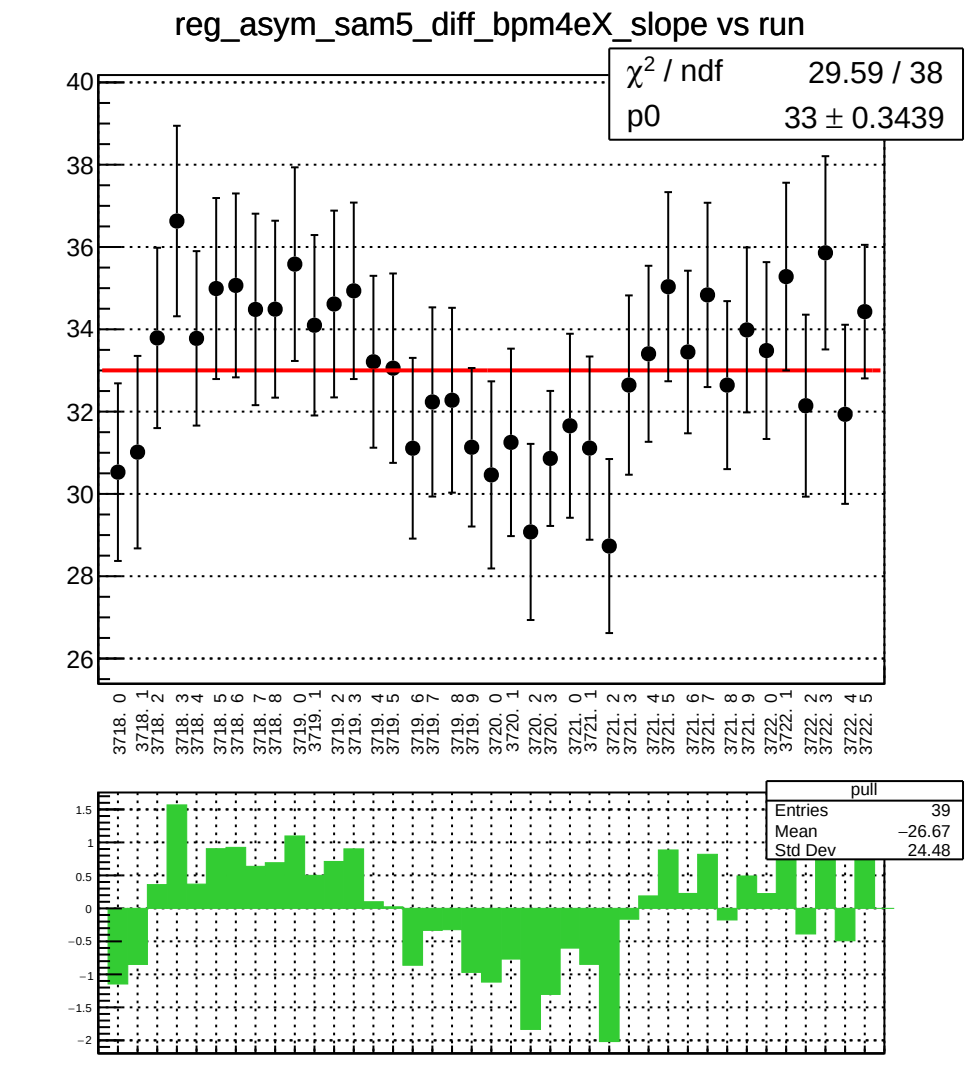

reg_asym_sam4_diff_bpm11X_slope vs run
χ² / ndf 1.503 / 38
p0 3.11 ± 1.39
pull
Entries 39
Mean 140.7
Std Dev 116.4

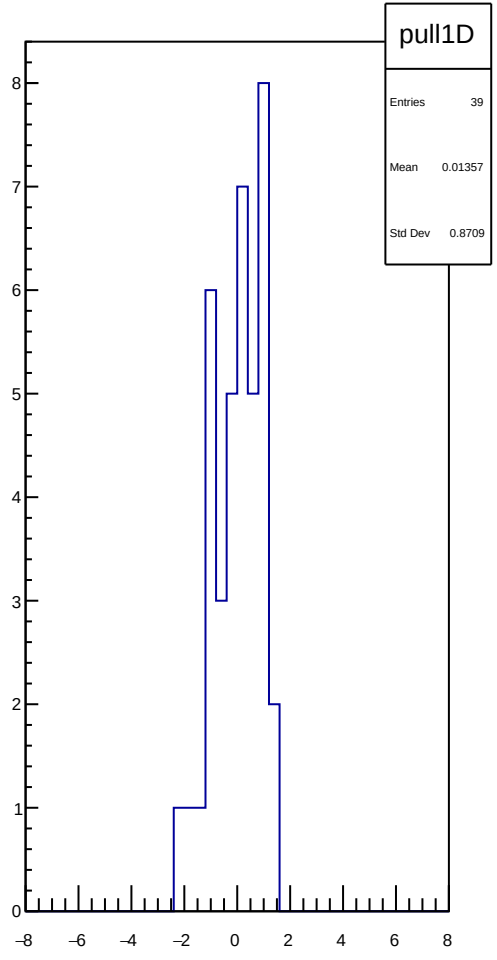

pull1D
Entries 39
Mean −0.002667
Std Dev 0.1963

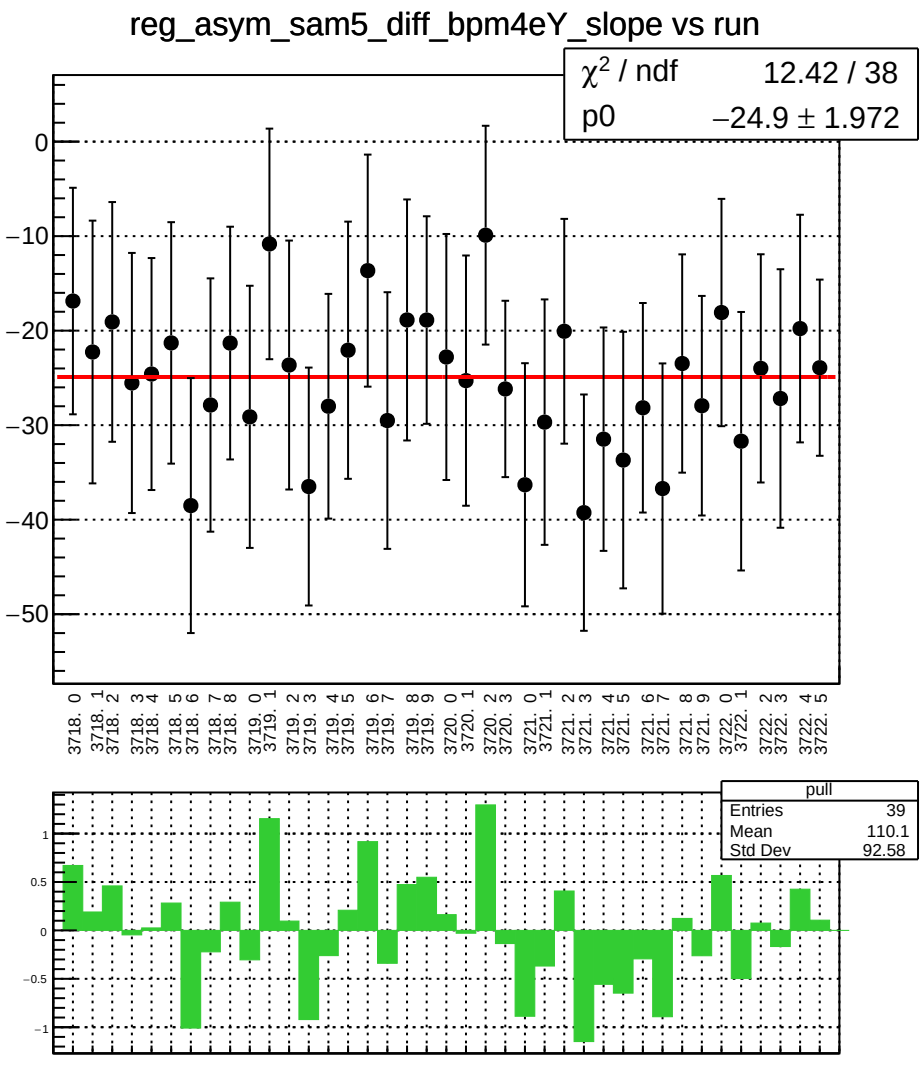

reg_asym_sam5_diff_bpm4aX_slope vs run
χ² / ndf 4.709 / 38
p0 6.743 ± 1.754
25
20
15
10
5
0
−5
−10
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −1979
Std Dev 2001
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

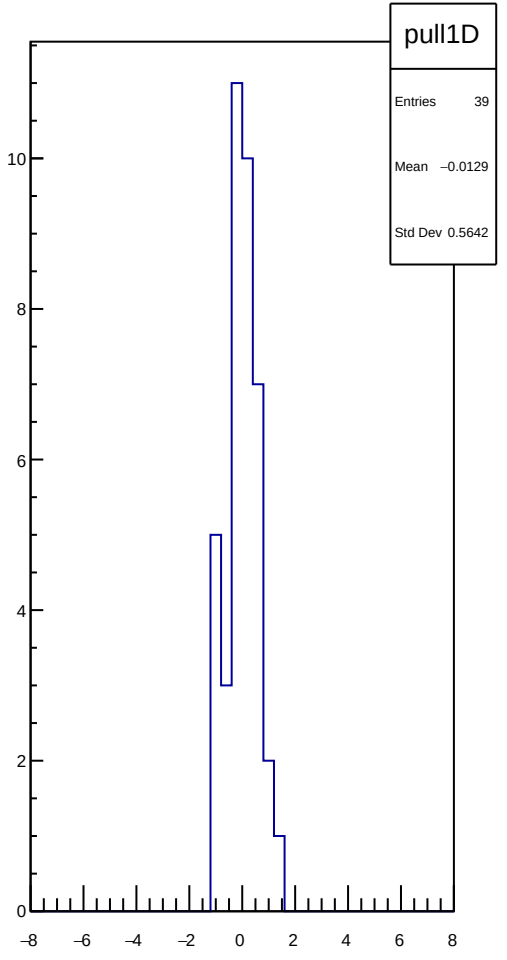

pull1D
Entries 39
Mean 5.266e−05
Std Dev 0.3475
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

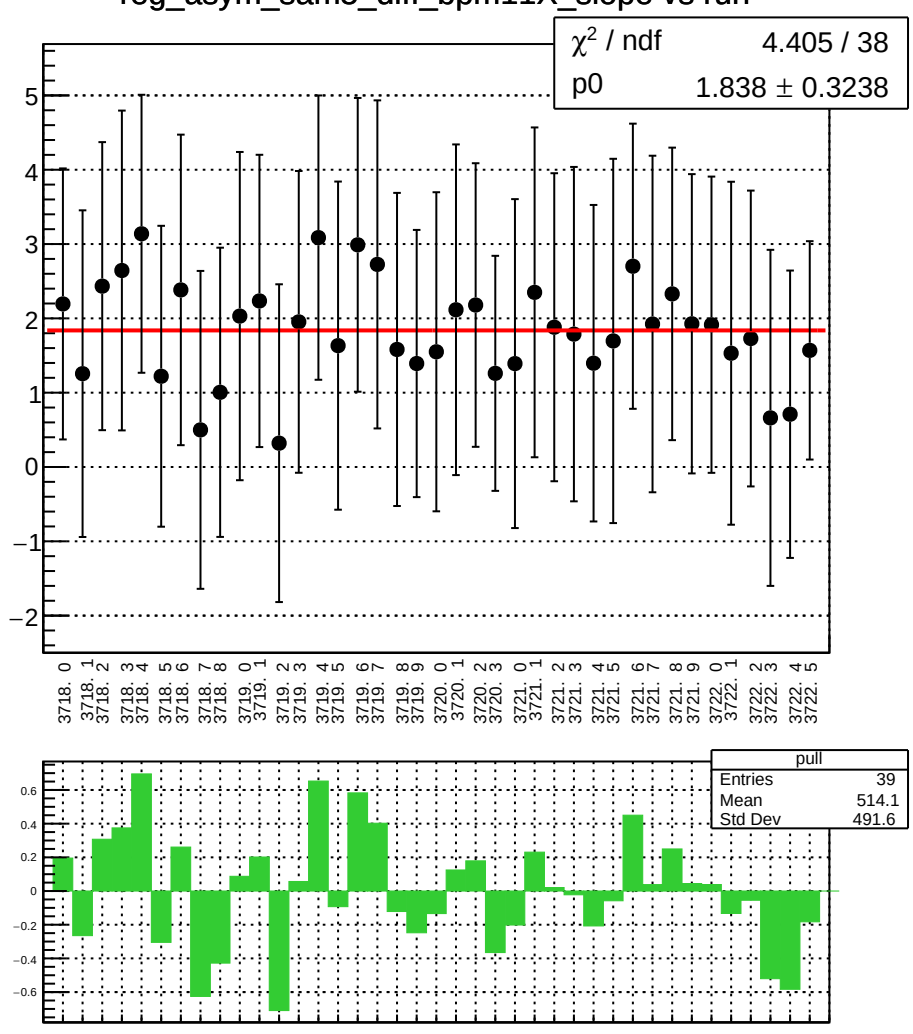

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 10.67 / 38
p0 165.9 ± 1.267
185
180
175
170
165
160
155
150
145
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 246.6
Std Dev 230.1
1
0.5
0
−0.5
−1
pull1D
Entries 39
Mean 0.007487
Std Dev 0.5231
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

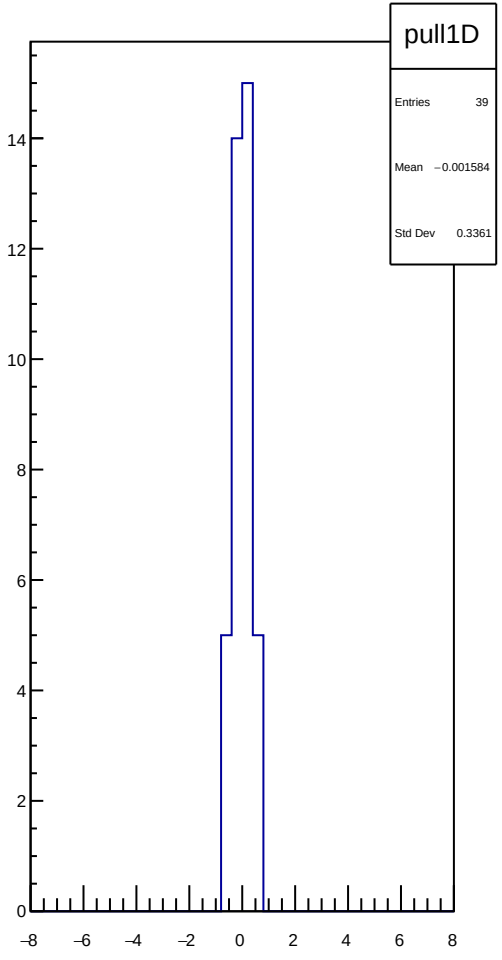

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 29.59 / 38
p0 33 ± 0.3439
pull
Entries 39
Mean −26.67
Std Dev 24.48

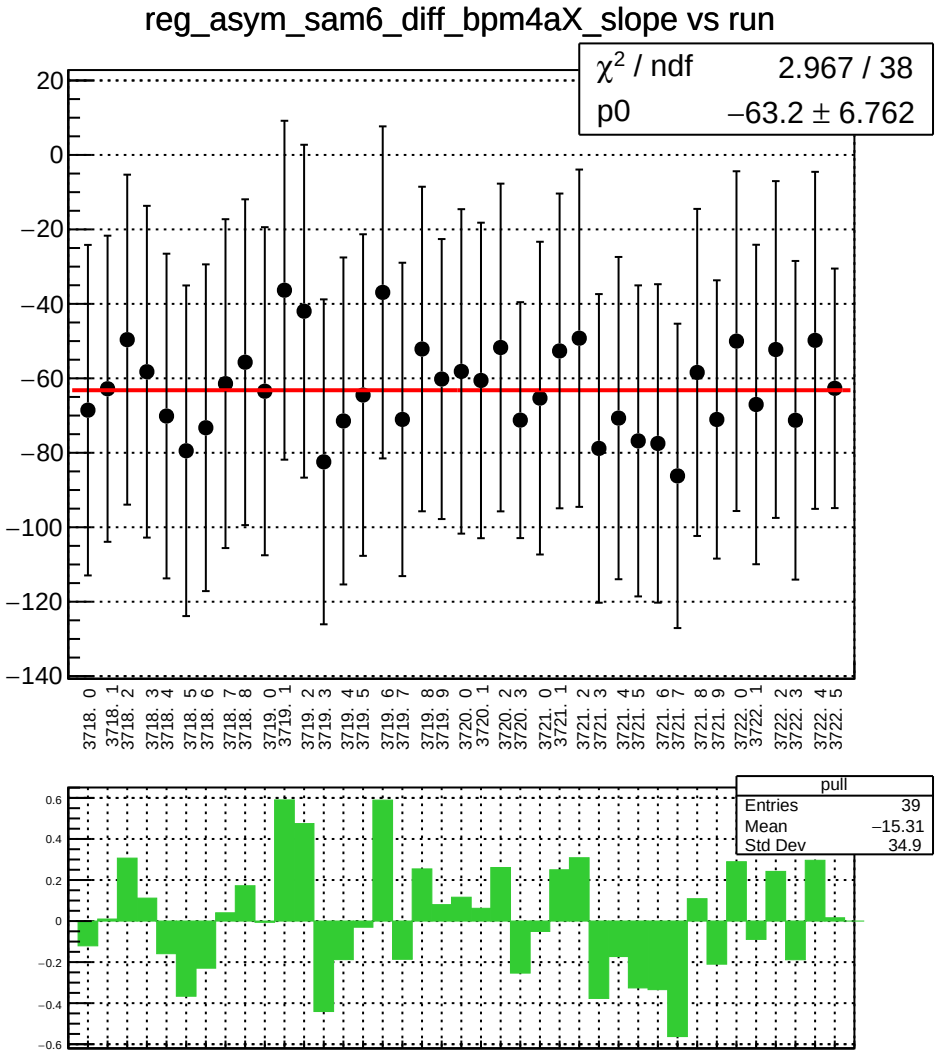

pull1D
Entries 39
Mean 0.01357
Std Dev 0.8709

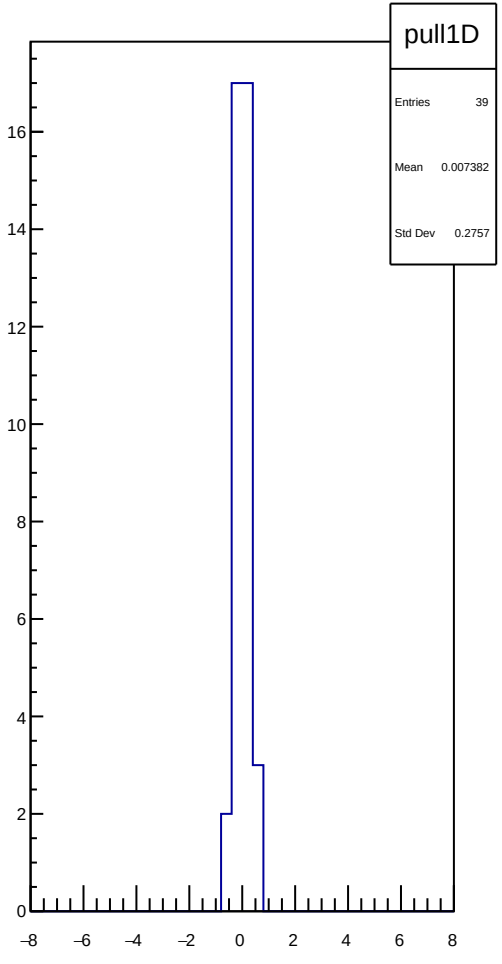

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 12.42 / 38
p0 −24.9 ± 1.972
0
−10
−20
−30
−40
−50
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 110.1
Std Dev 92.58
1
0.5
0
−0.5
−1

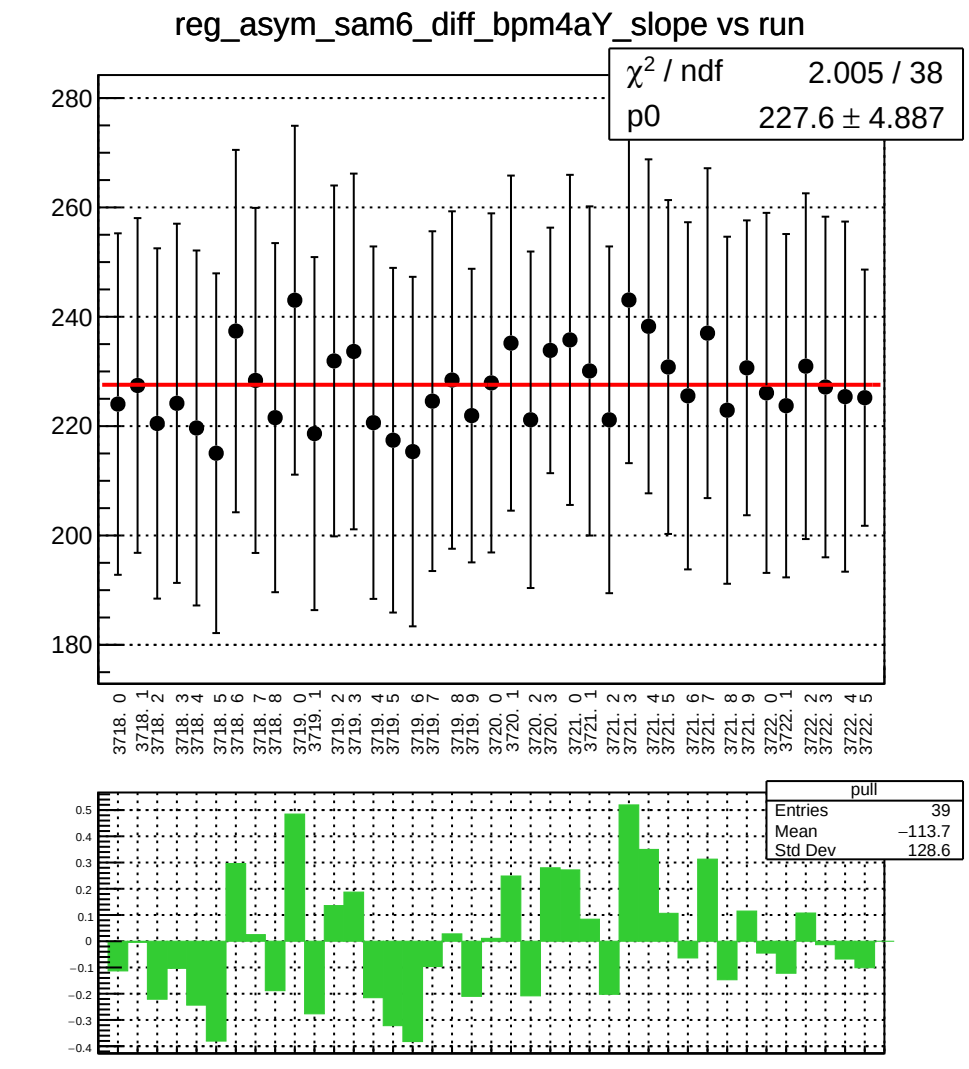

pull1D
Entries 39
Mean −0.0129
Std Dev 0.5642
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

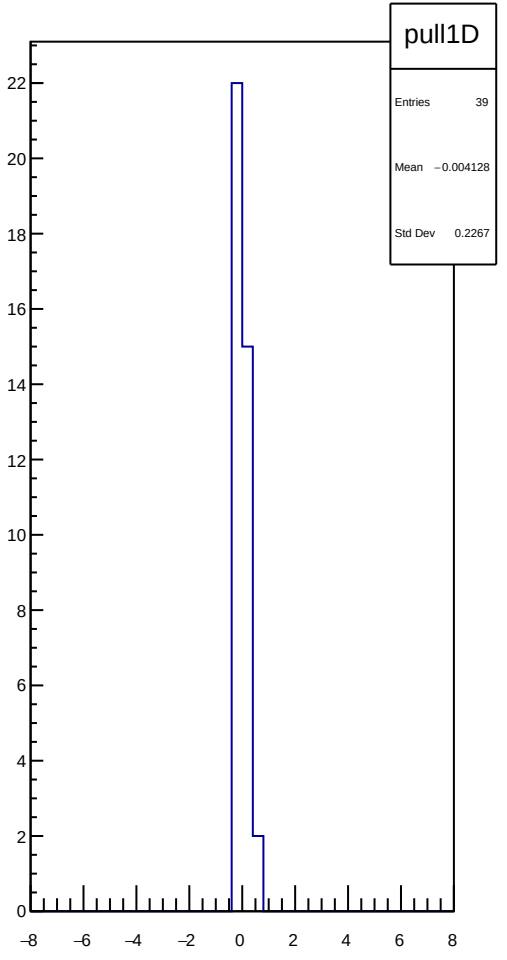

reg_asym_sam5_diff_bpm11X_slope vs run
χ² / ndf 4.405 / 38
p0 1.838 ± 0.3238
pull
Entries 39
Mean 514.1
Std Dev 491.6

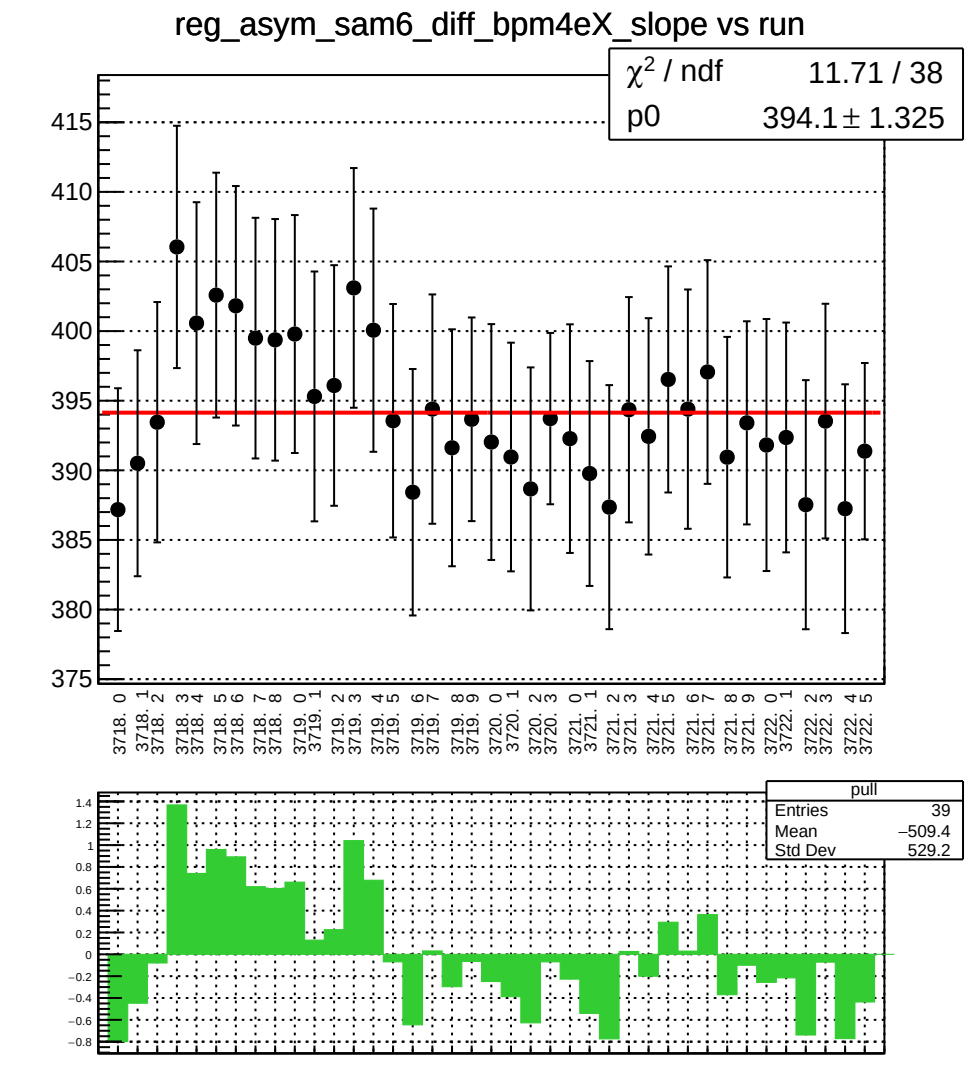

pull1D
Entries 39
Mean −0.001584
Std Dev 0.3361

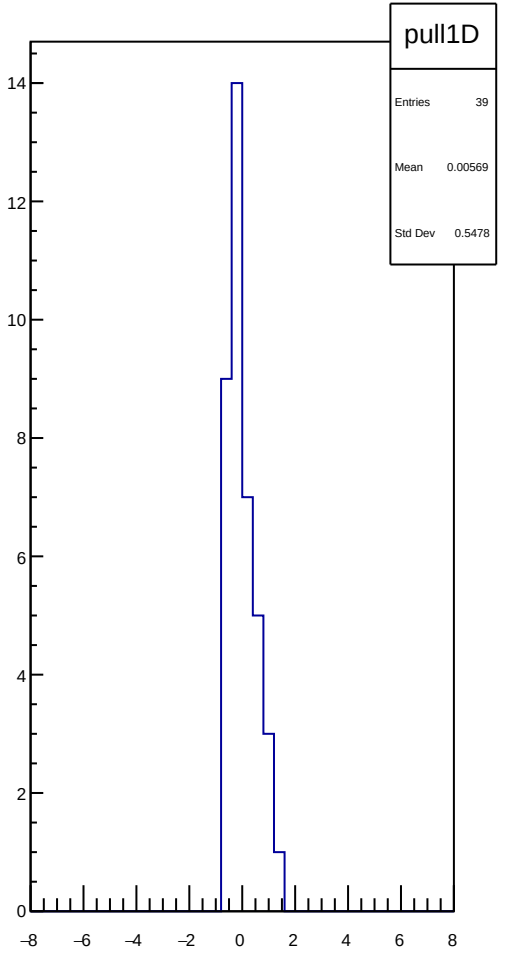

reg_asym_sam6_diff_bpm4aX_slope vs run
χ² / ndf 2.967 / 38
p0 −63.2 ± 6.762
pull
Entries 39
Mean −15.31
Std Dev 34.9

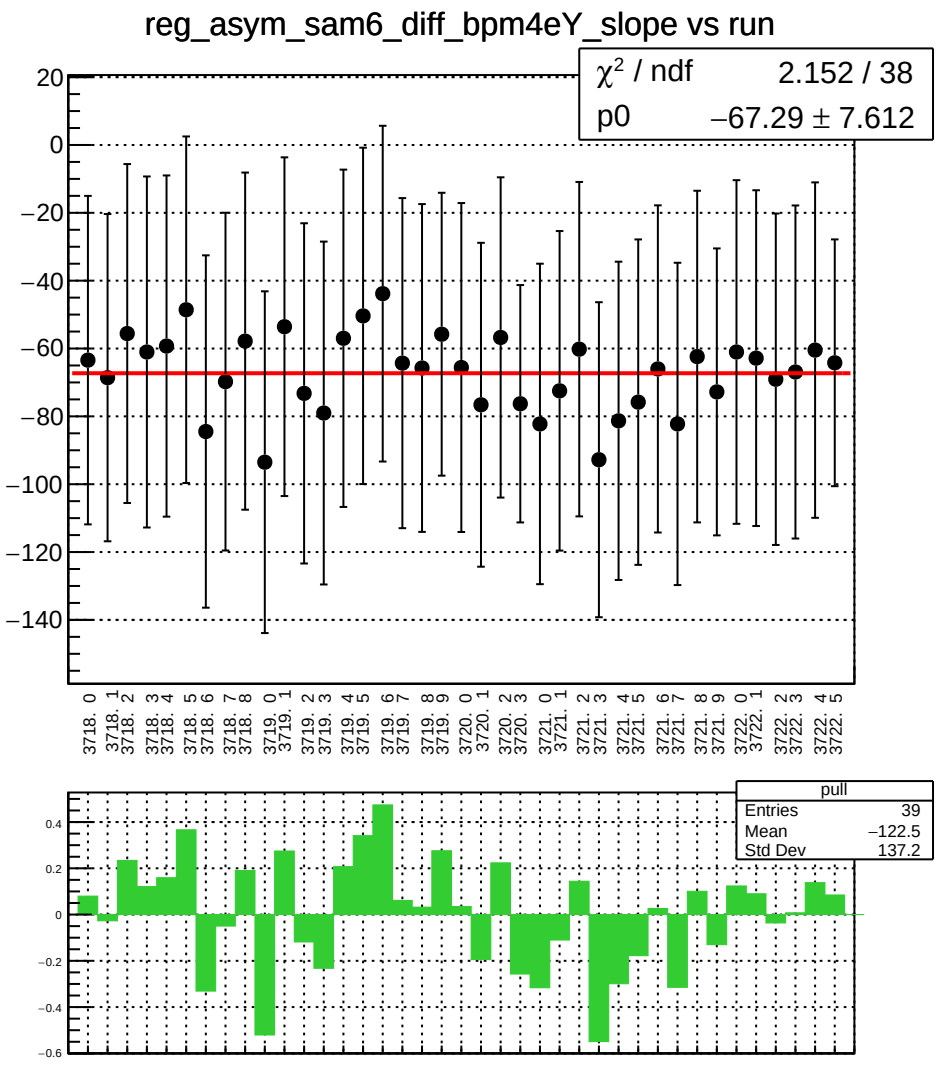

pull1D
Entries 39
Mean 0.007382
Std Dev 0.2757

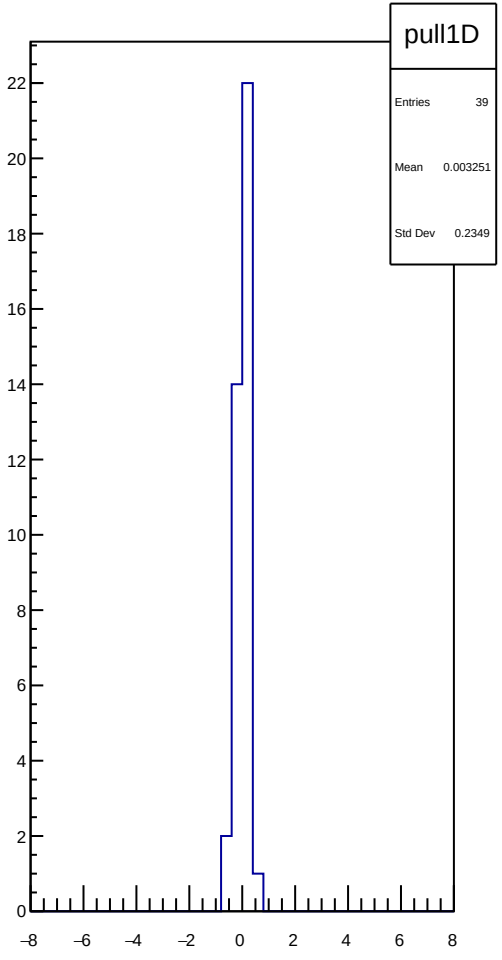

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 2.005 / 38
p0 227.6 ± 4.887
280
260
240
220
200
180
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −113.7
Std Dev 128.6
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

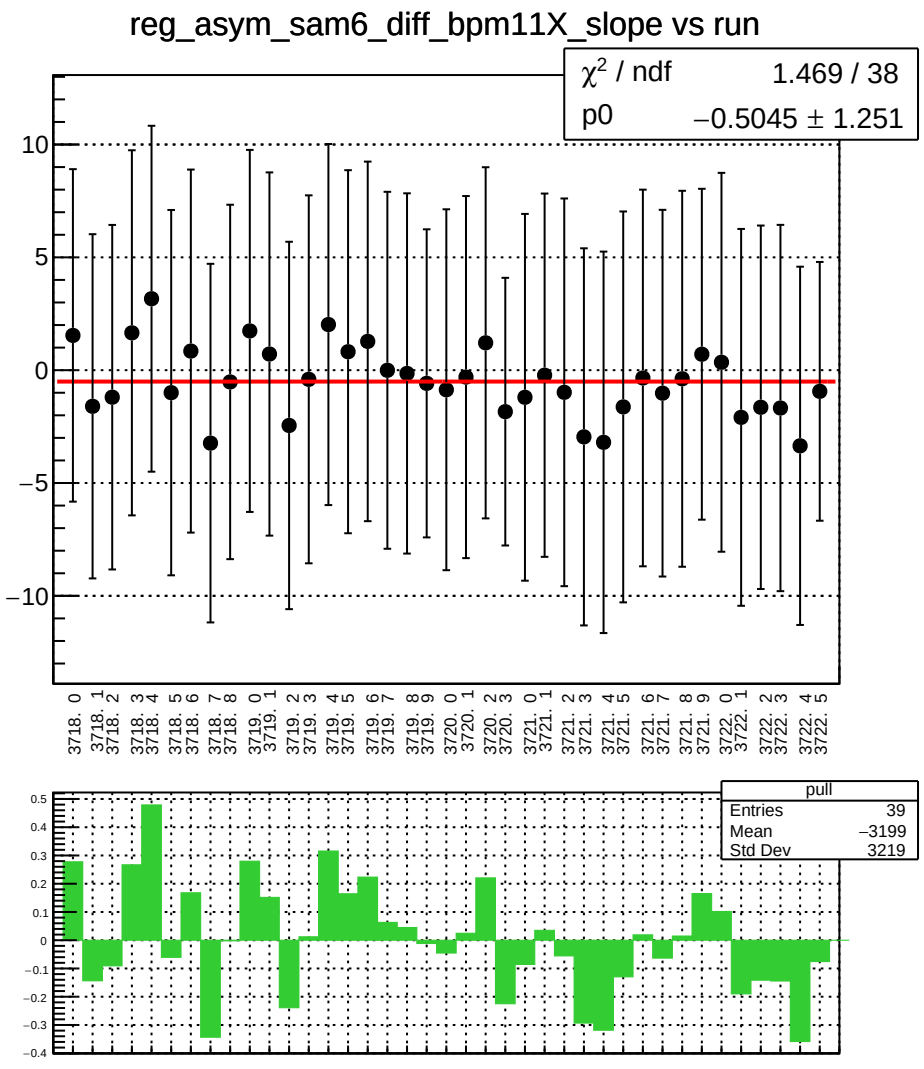

pull1D
Entries 39
Mean −0.004128
Std Dev 0.2267
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

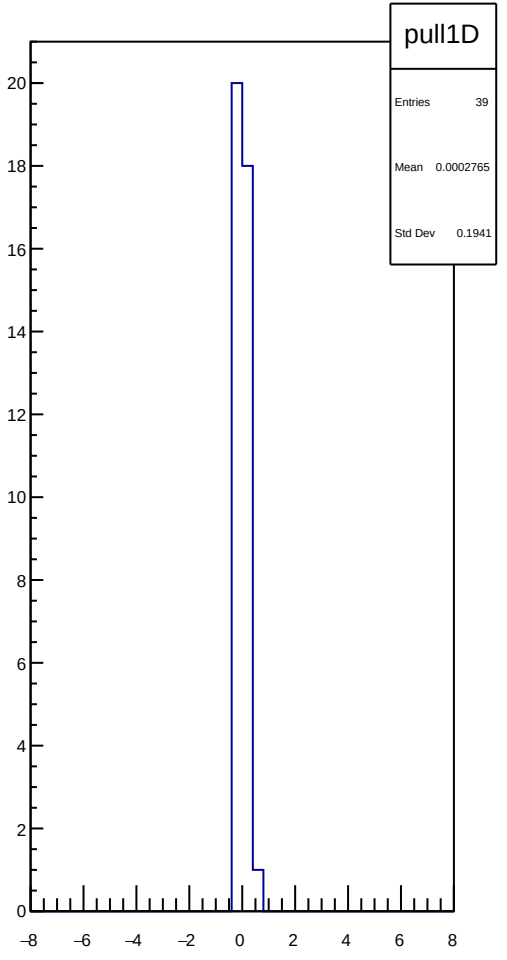

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 11.71 / 38
p0 394.1 ± 1.325
415
410
405
400
395
390
385
380
375
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −509.4
Std Dev 529.2
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

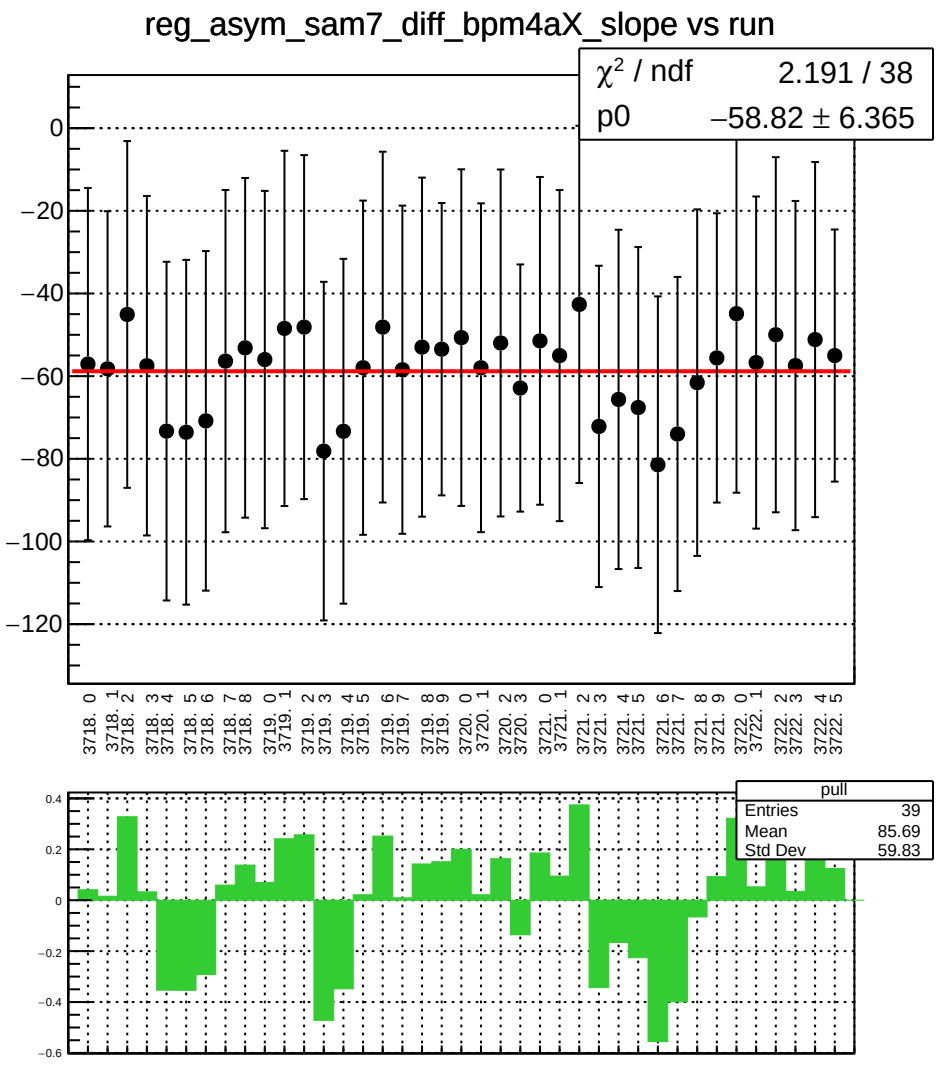

pull1D
Entries 39
Mean 0.00569
Std Dev 0.5478
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

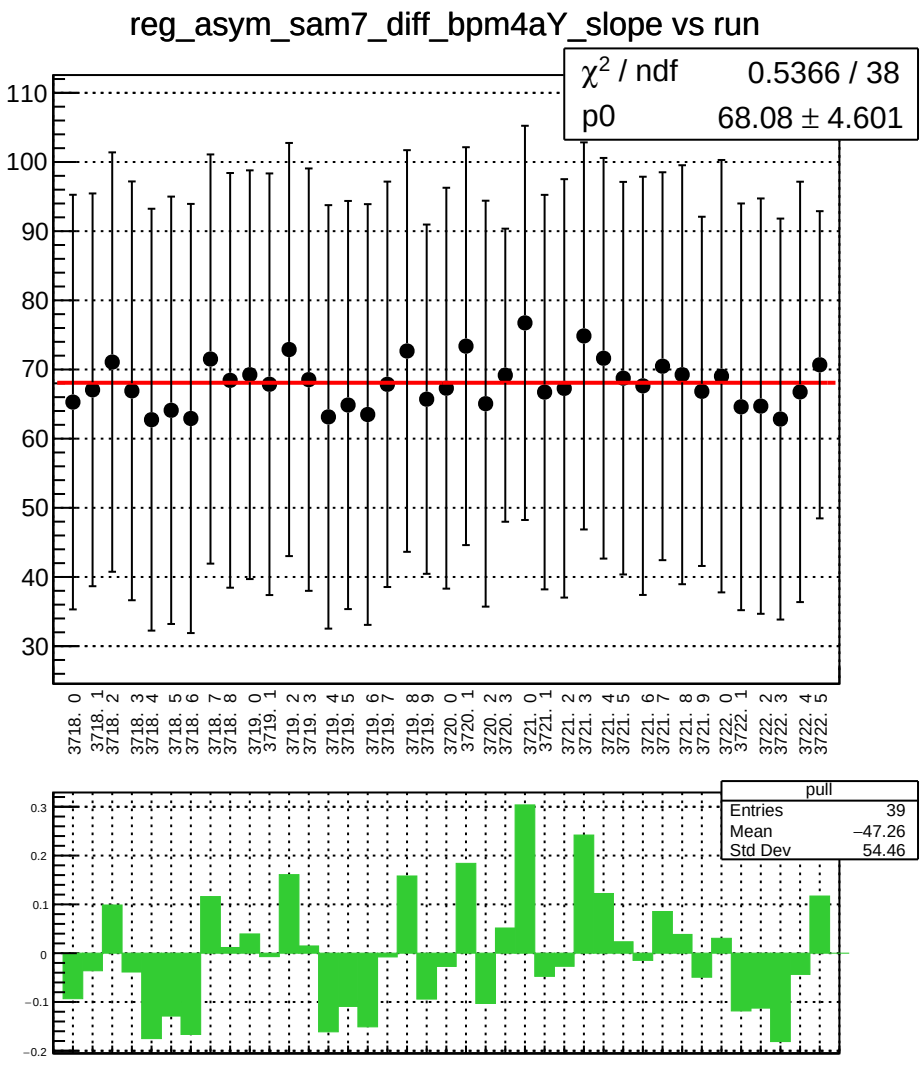

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 2.152 / 38
p0 −67.29 ± 7.612
pull
Entries 39
Mean −122.5
Std Dev 137.2

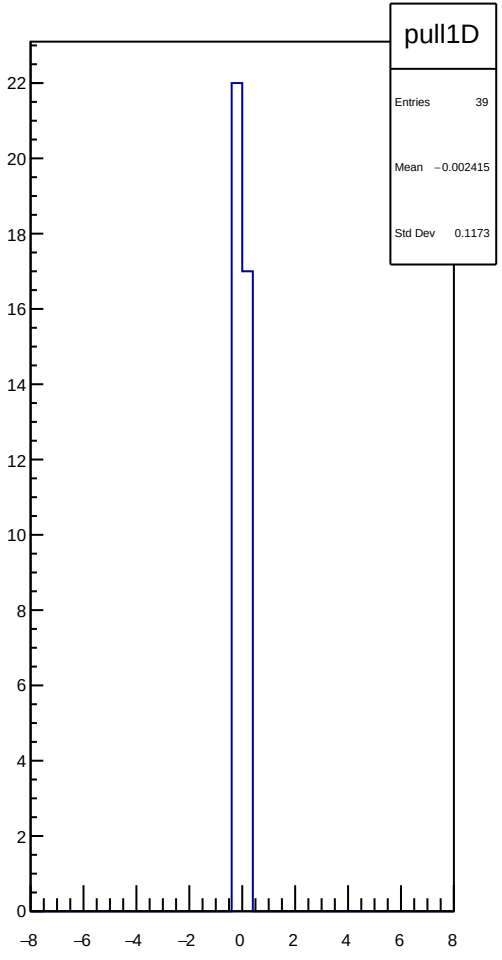

pull1D
Entries 39
Mean 0.003251
Std Dev 0.2349

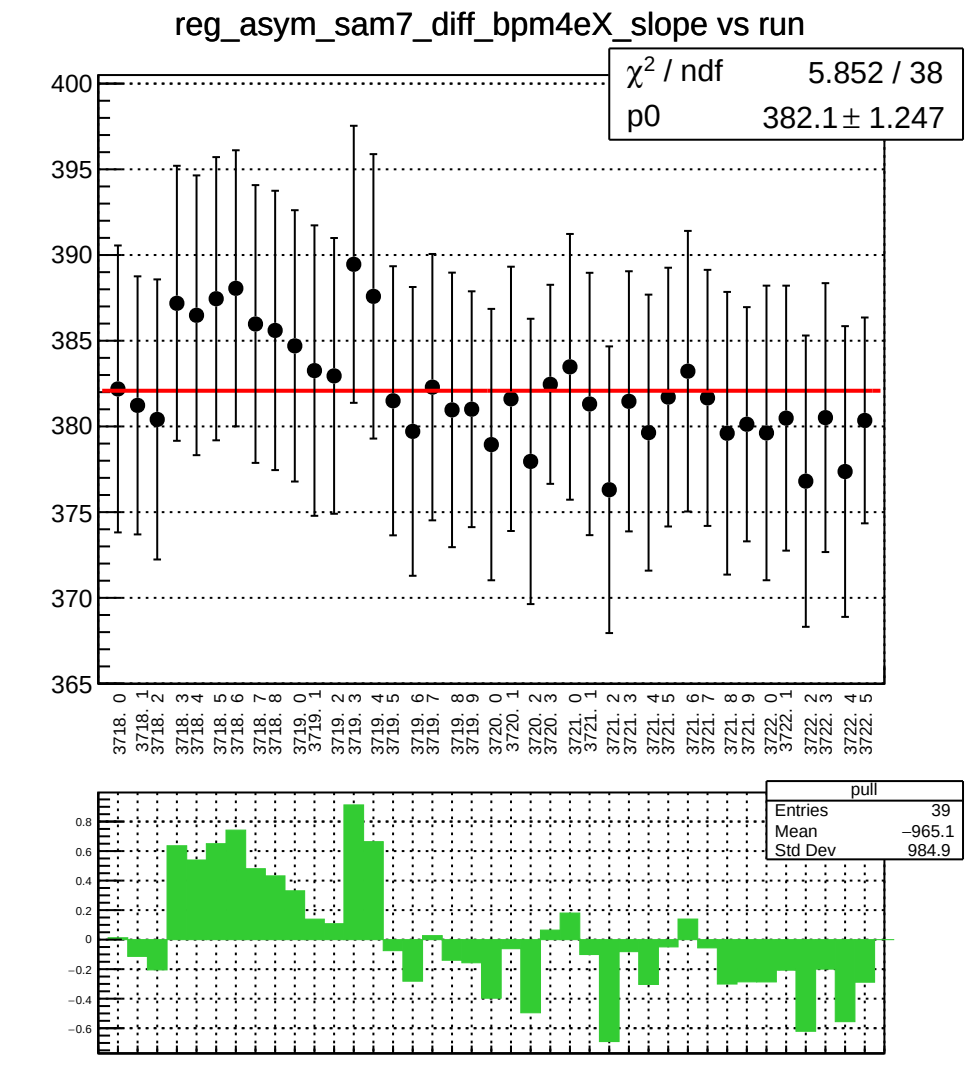

reg_asym_sam6_diff_bpm11X_slope vs run
χ² / ndf 1.469 / 38
p0 −0.5045 ± 1.251
10
5
0
−5
−10
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −3199
Std Dev 3219
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

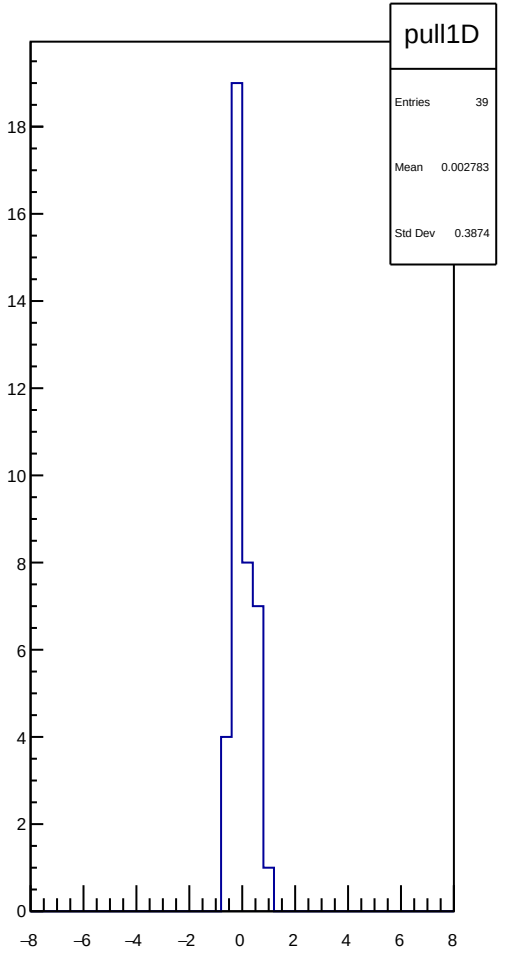

pull1D
Entries 39
Mean 0.0002765
Std Dev 0.1941
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

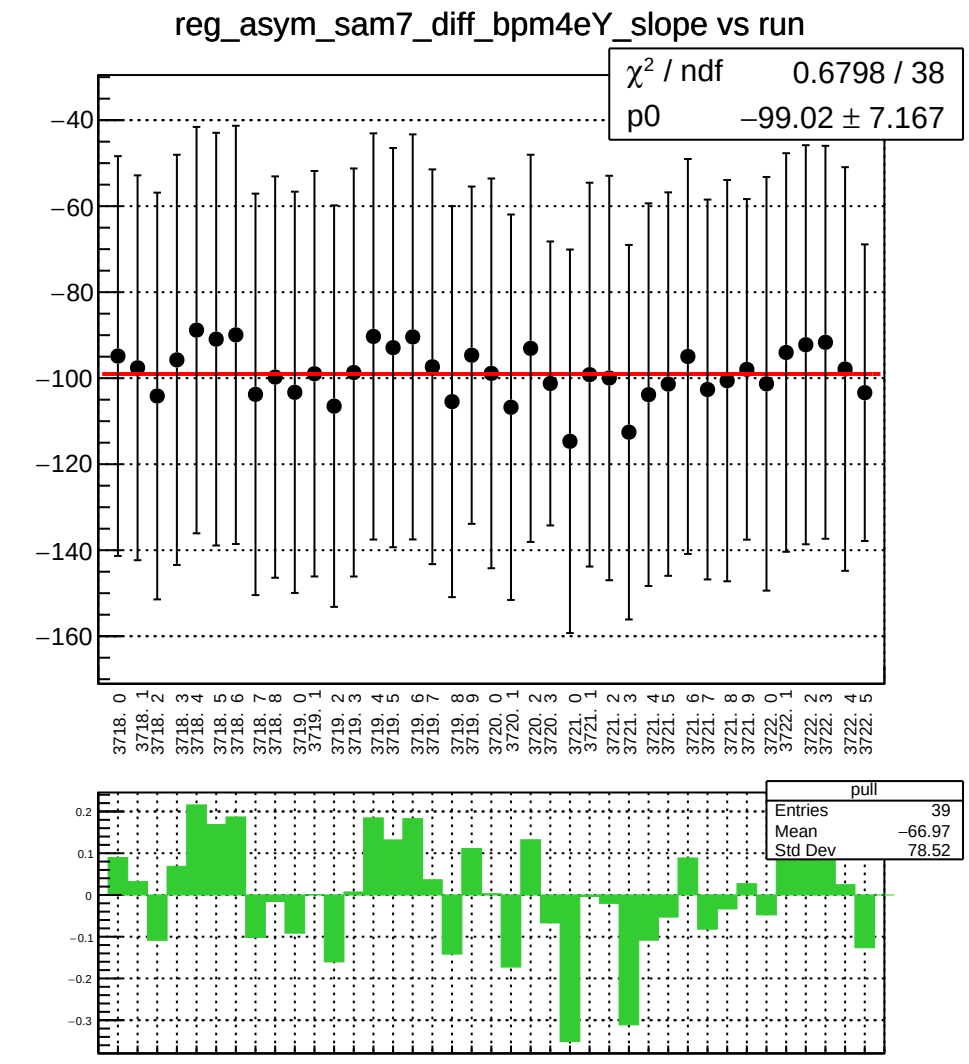

reg_asym_sam7_diff_bpm4aX_slope vs run
χ² / ndf 2.191 / 38
p0 −58.82 ± 6.365
0
−20
−40
−60
−80
−100
−120
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 85.69
Std Dev 59.83
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 39
Mean 0.002489
Std Dev 0.237
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

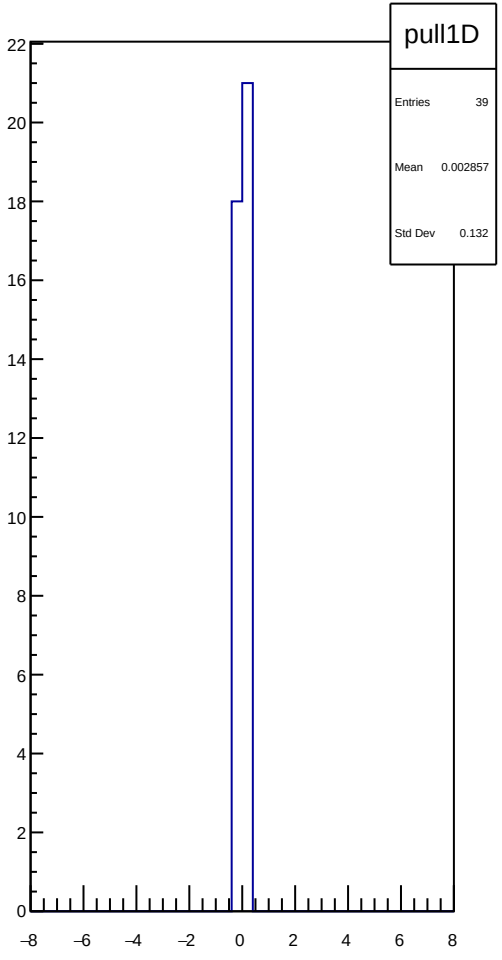

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 0.5366 / 38
p0 68.08 ± 4.601
pull
Entries 39
Mean −47.26
Std Dev 54.46

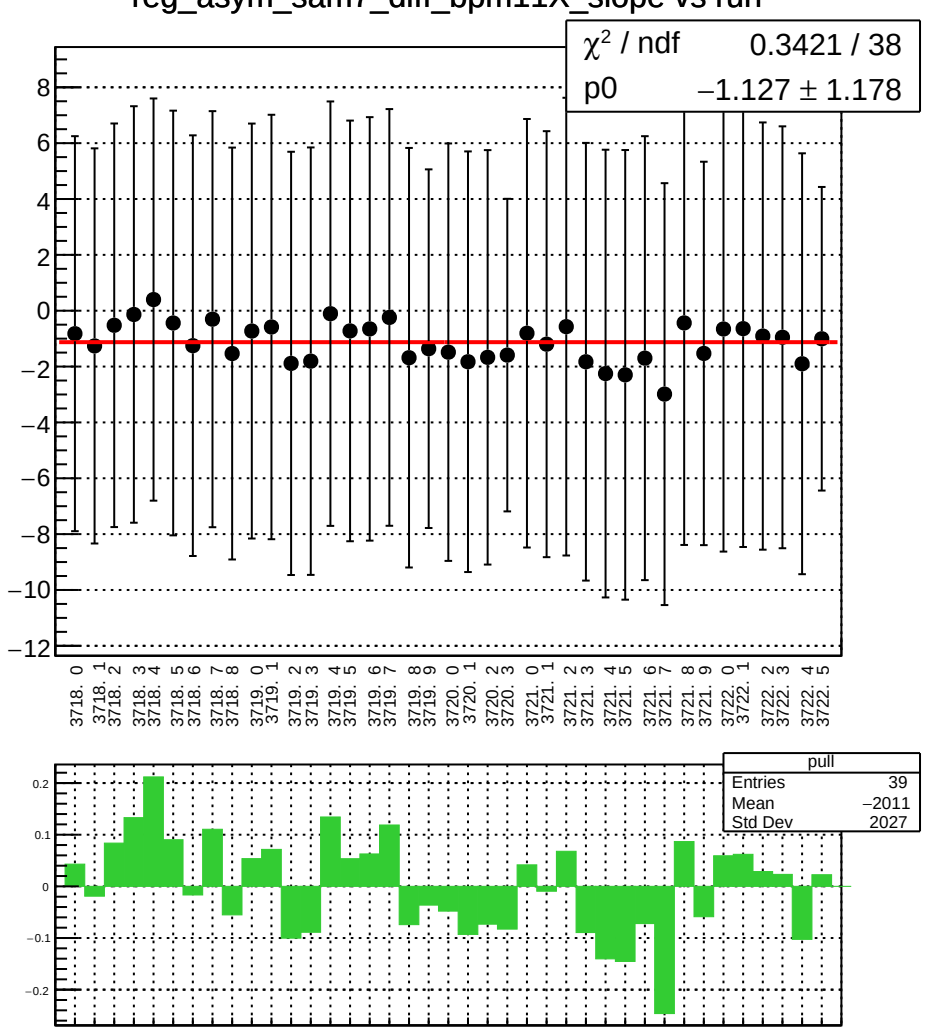

pull1D
Entries 39
Mean −0.002415
Std Dev 0.1173

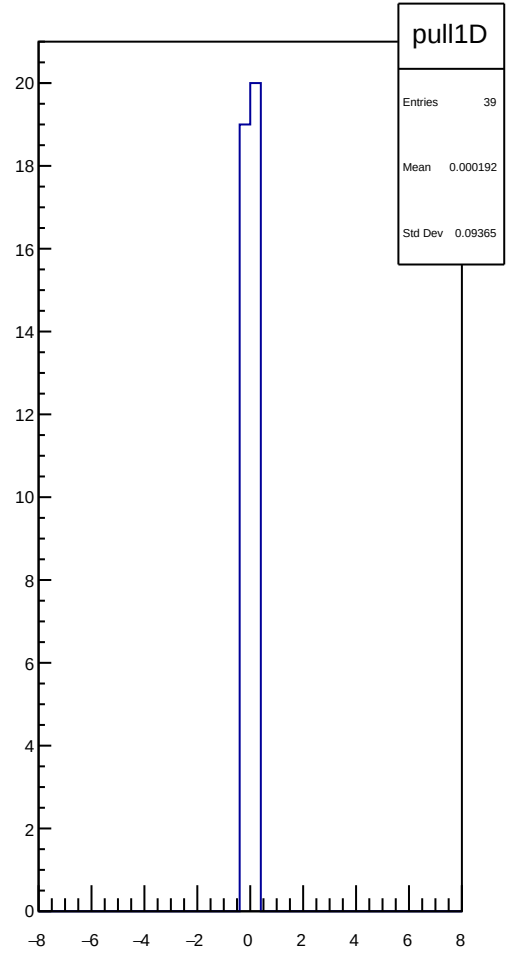

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 5.852 / 38
p0 382.1 ± 1.247
400
395
390
385
380
375
370
365
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −965.1
Std Dev 984.9
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

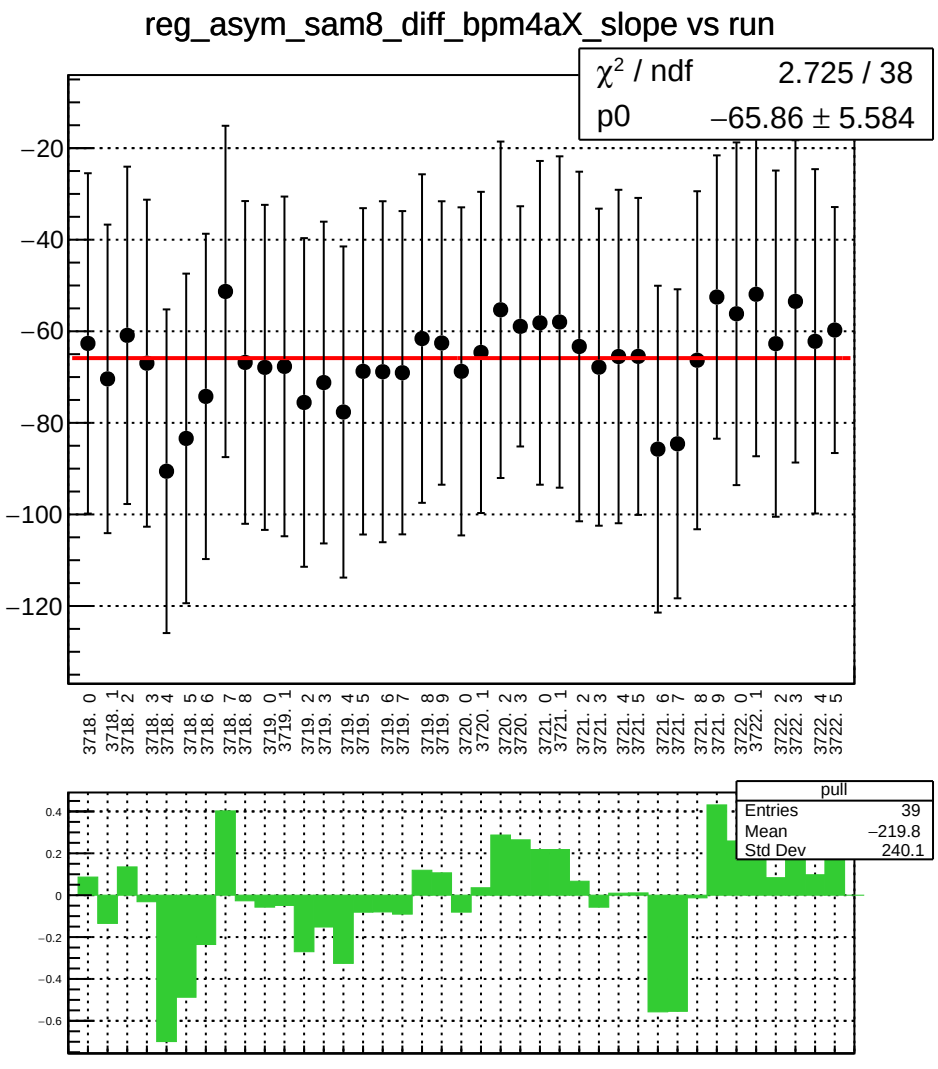

pull1D
Entries 39
Mean 0.002783
Std Dev 0.3874
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

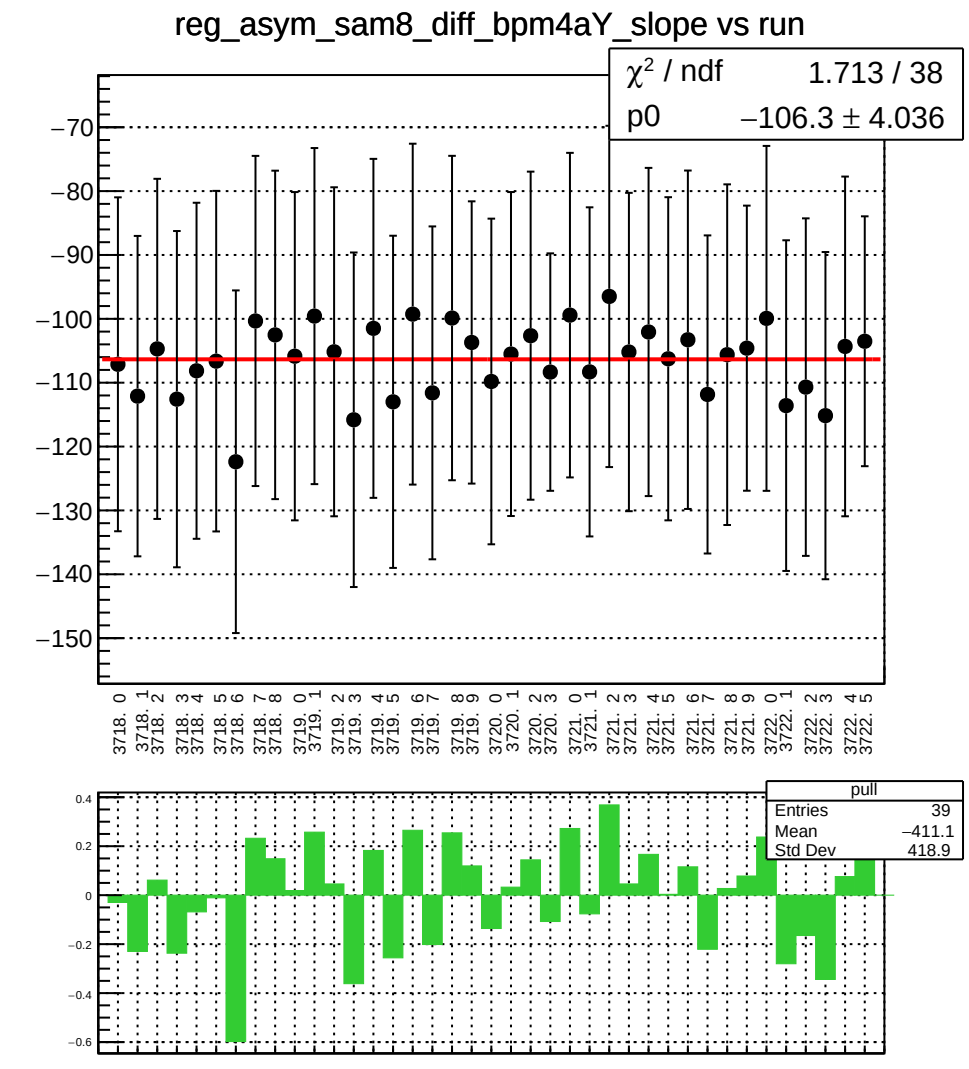

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 0.6798 / 38
p0 −99.02 ± 7.167
pull
Entries 39
Mean −66.97
Std Dev 78.52

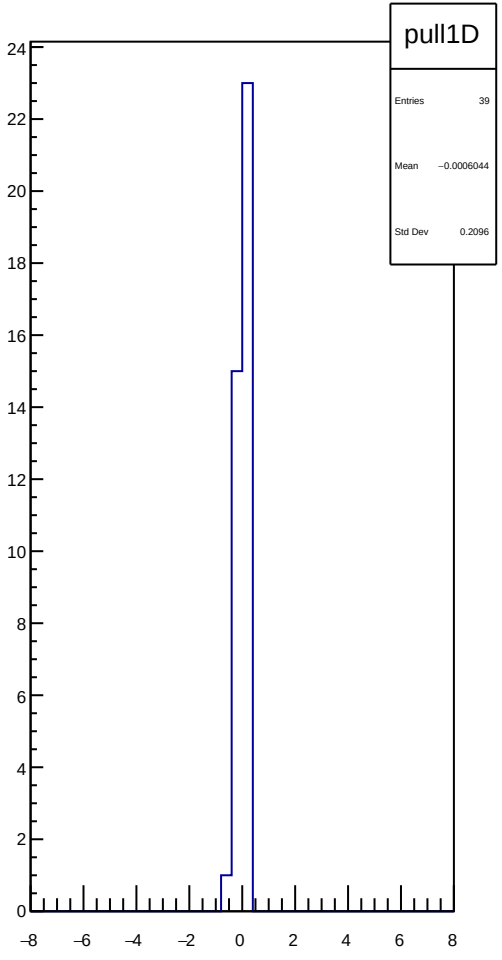

pull1D
Entries 39
Mean 0.002857
Std Dev 0.132

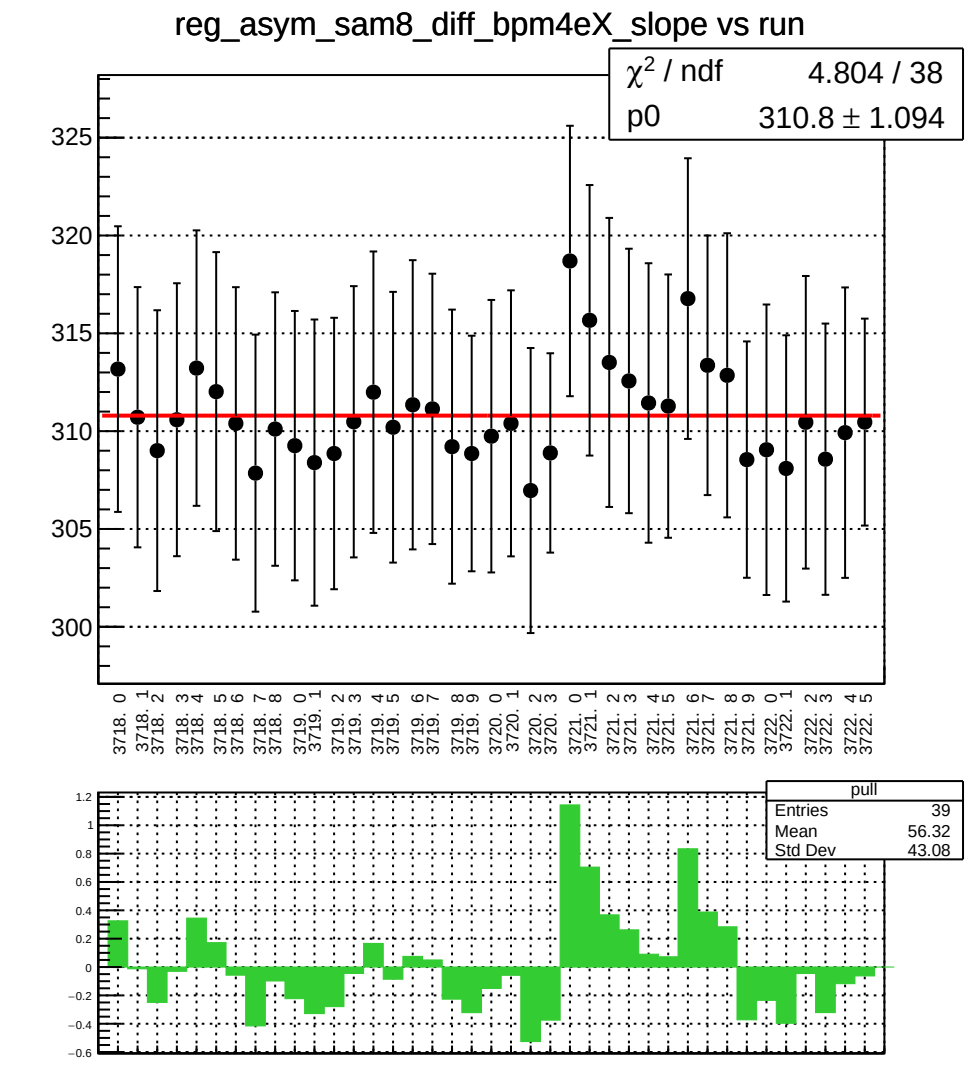

reg_asym_sam7_diff_bpm11X_slope vs run
χ² / ndf 0.3421 / 38
p0 −1.127 ± 1.178
pull
Entries 39
Mean −2011
Std Dev 2027

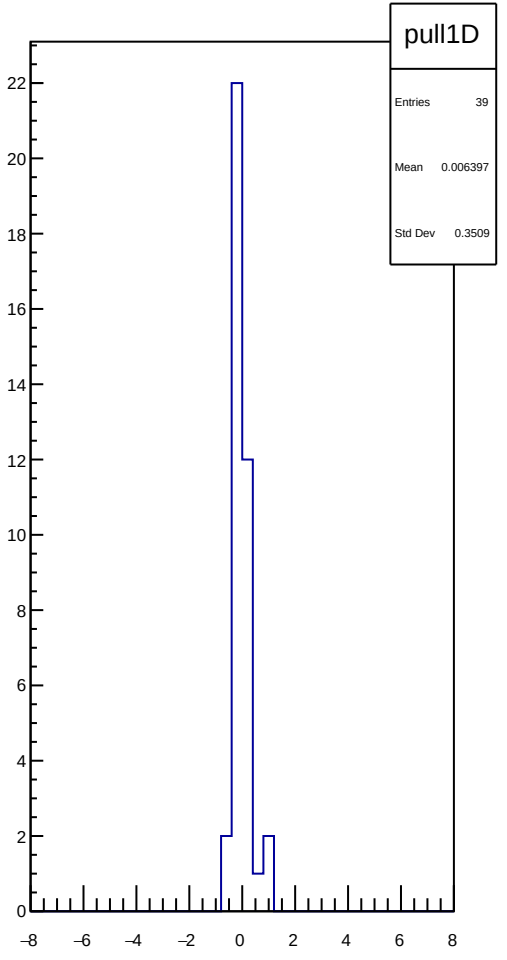

pull1D
Entries 39
Mean 0.000192
Std Dev 0.09365

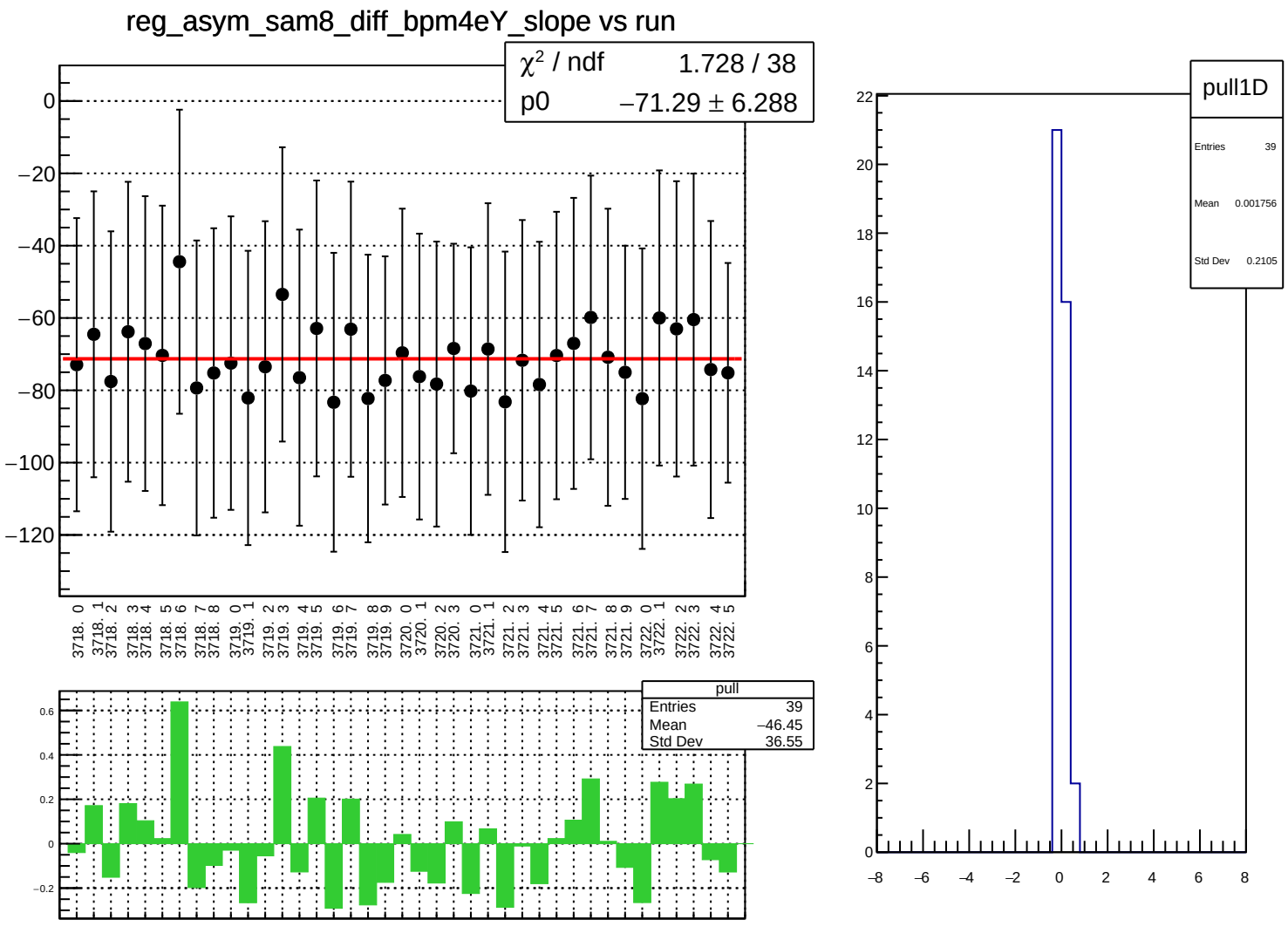

reg_asym_sam8_diff_bpm4aX_slope vs run
χ² / ndf 2.725 / 38
p0 −65.86 ± 5.584
−20
−40
−60
−80
−100
−120
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −219.8
Std Dev 240.1
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 39
Mean −0.004492
Std Dev 0.2643
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

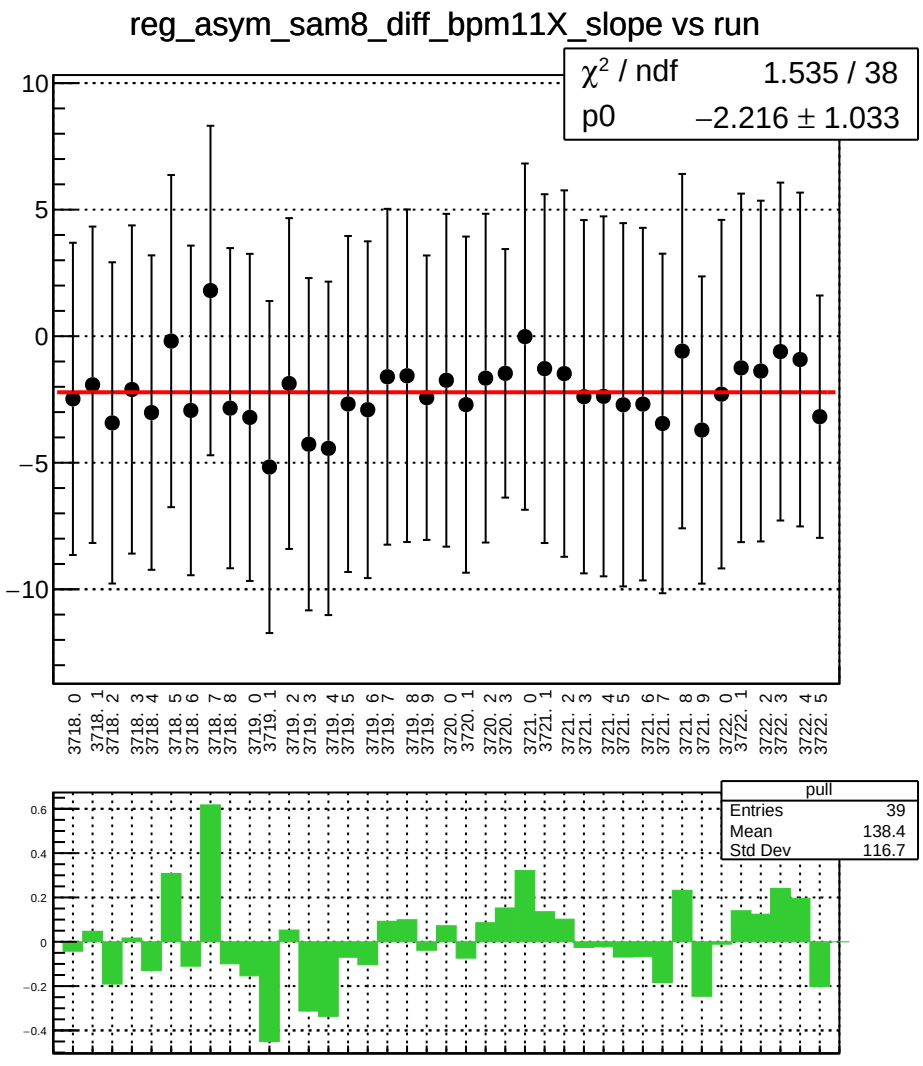

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 1.713 / 38
p0 −106.3 ± 4.036
pull
Entries 39
Mean −411.1
Std Dev 418.9

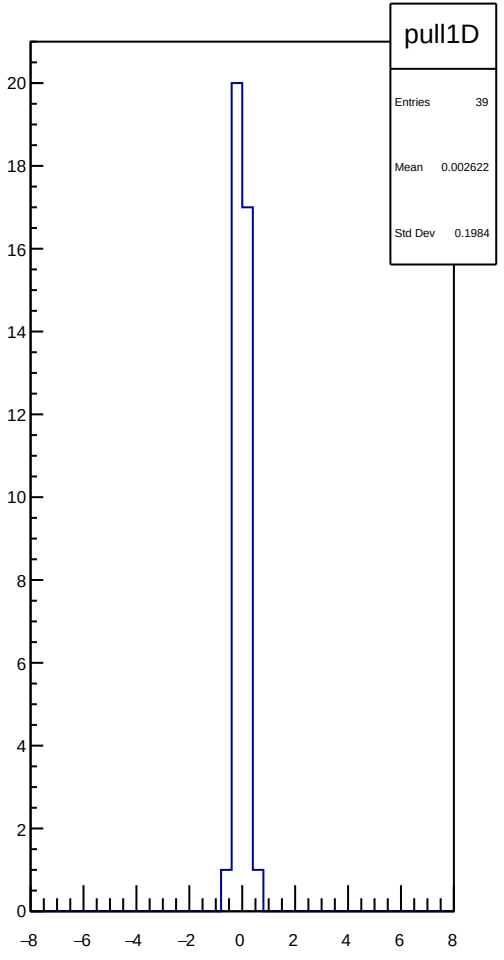

pull1D
Entries 39
Mean −0.0006044
Std Dev 0.2096

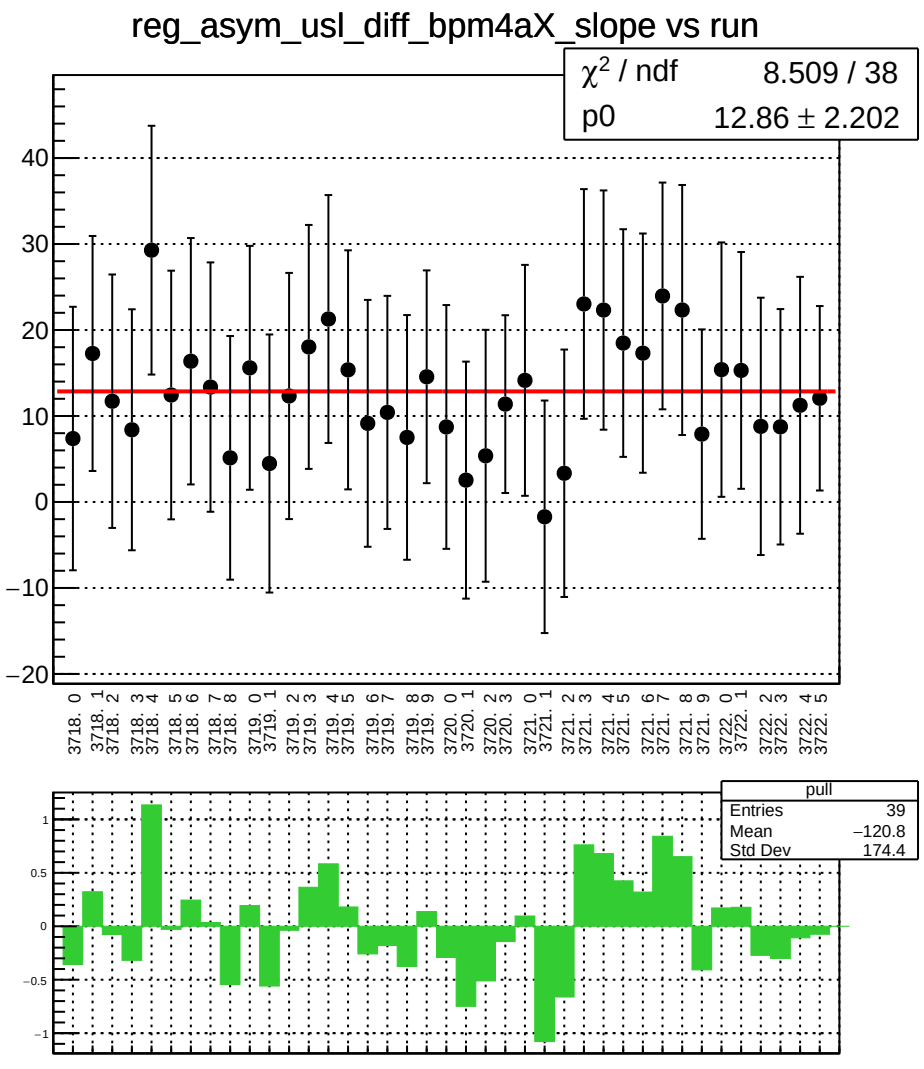

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 4.804 / 38
p0 310.8 ± 1.094
325
320
315
310
305
300
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 56.32
Std Dev 43.08
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

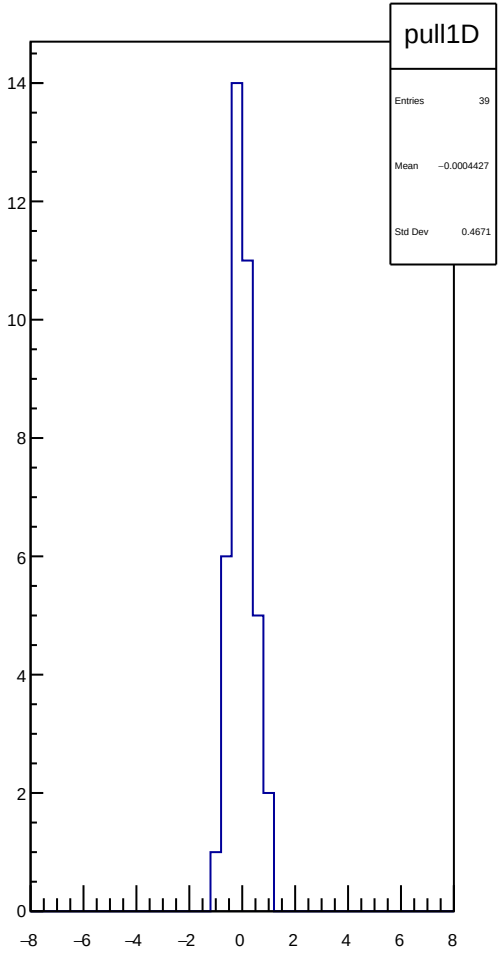

pull1D
Entries 39
Mean 0.006397
Std Dev 0.3509
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

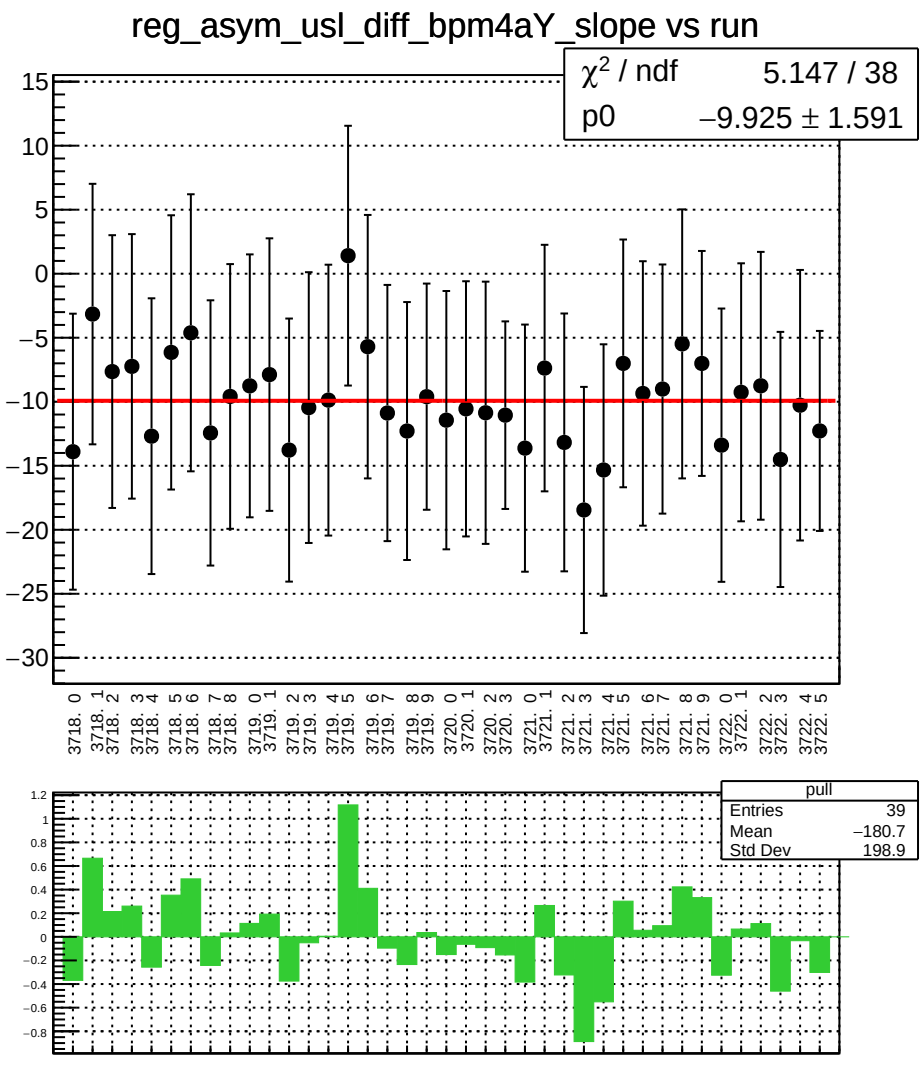

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 1.728 / 38
p0 −71.29 ± 6.288
0
−20
−40
−60
−80
−100
−120
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −46.45
Std Dev 36.55
0.6
0.4
0.2
0
−0.2
pull1D
Entries 39
Mean 0.001756
Std Dev 0.2105
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

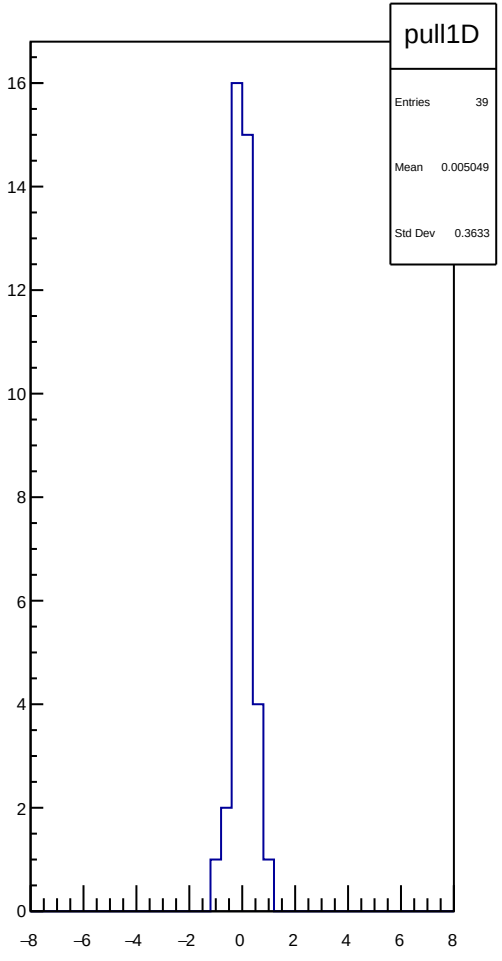

reg_asym_sam8_diff_bpm11X_slope vs run
χ² / ndf 1.535 / 38
p0 −2.216 ± 1.033
10
5
0
−5
−10
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 138.4
Std Dev 116.7
0.6
0.4
0.2
0
−0.2
−0.4

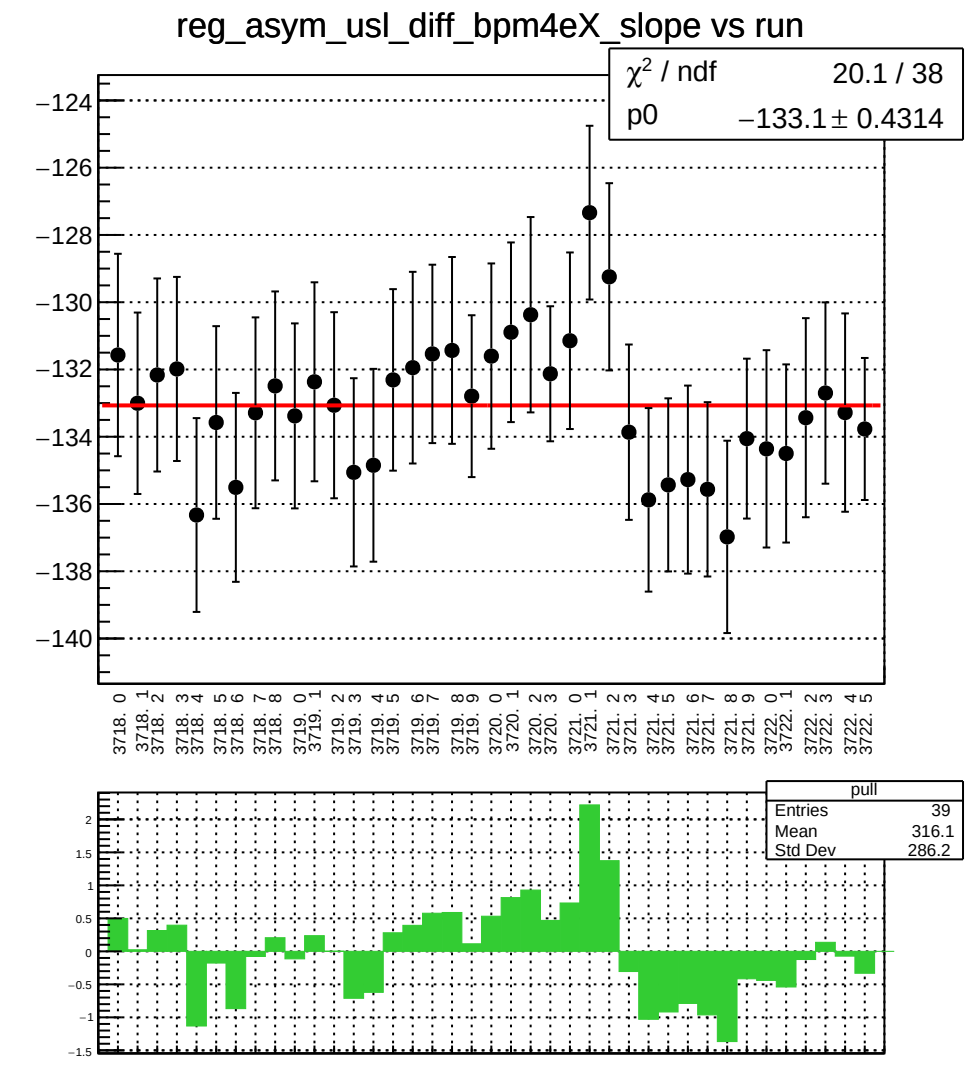

pull1D
Entries 39
Mean 0.002622
Std Dev 0.1984
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

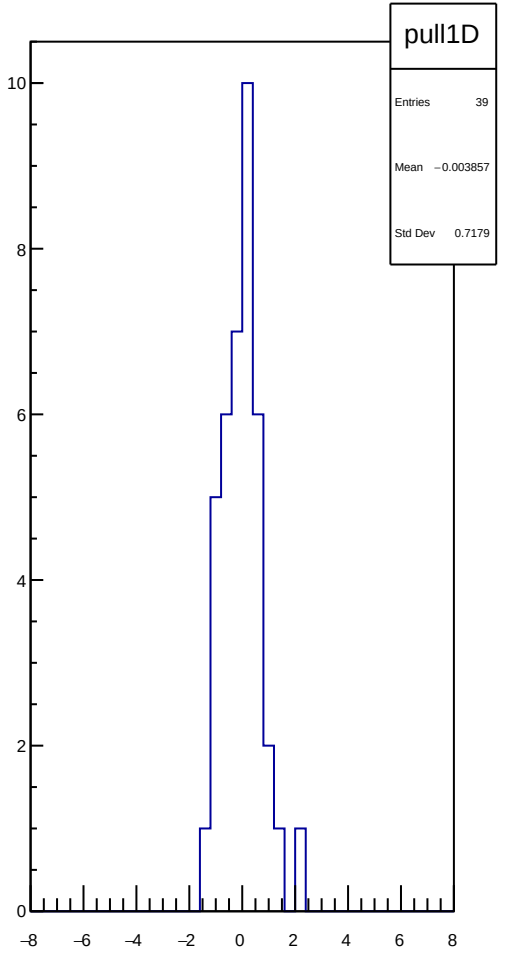

reg_asym_usl_diff_bpm4aX_slope vs run
χ² / ndf 8.509 / 38
p0 12.86 ± 2.202
pull
Entries 39
Mean −120.8
Std Dev 174.4

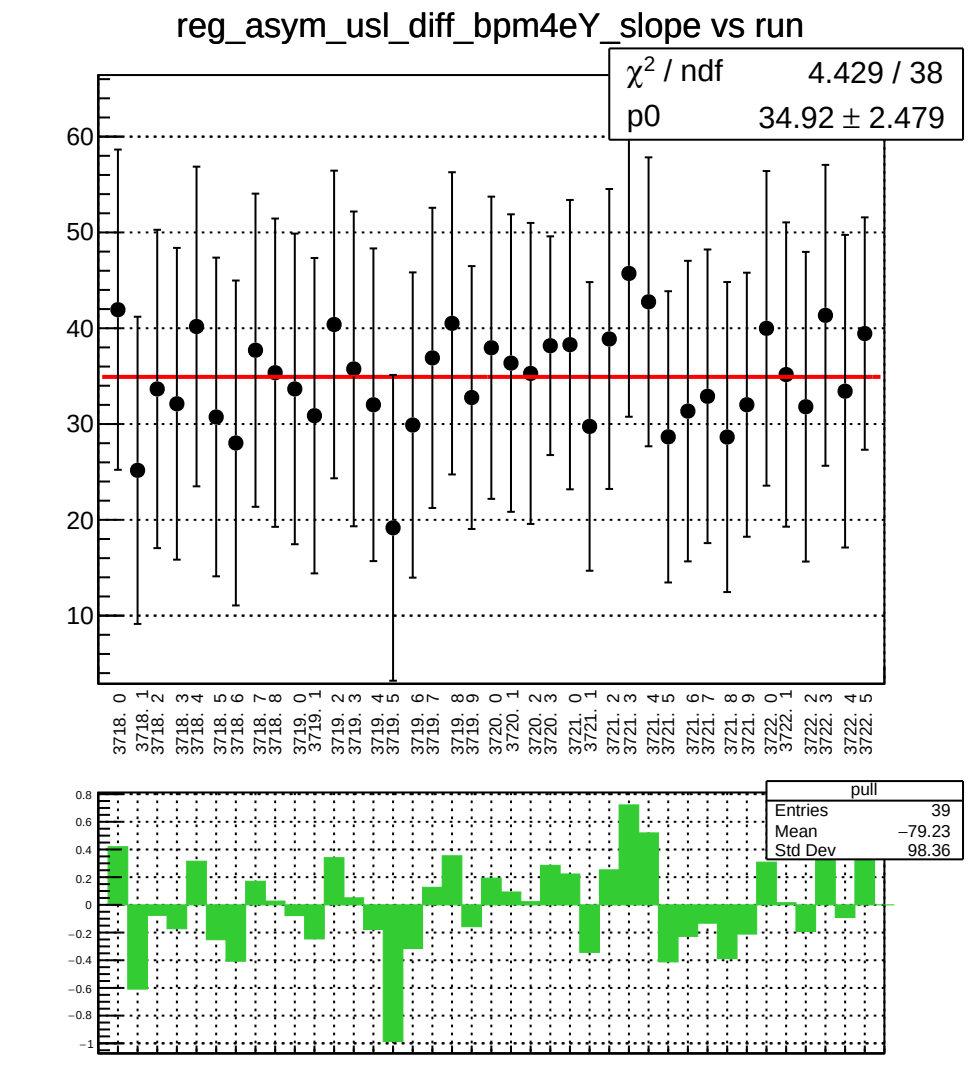

pull1D
Entries 39
Mean −0.0004427
Std Dev 0.4671

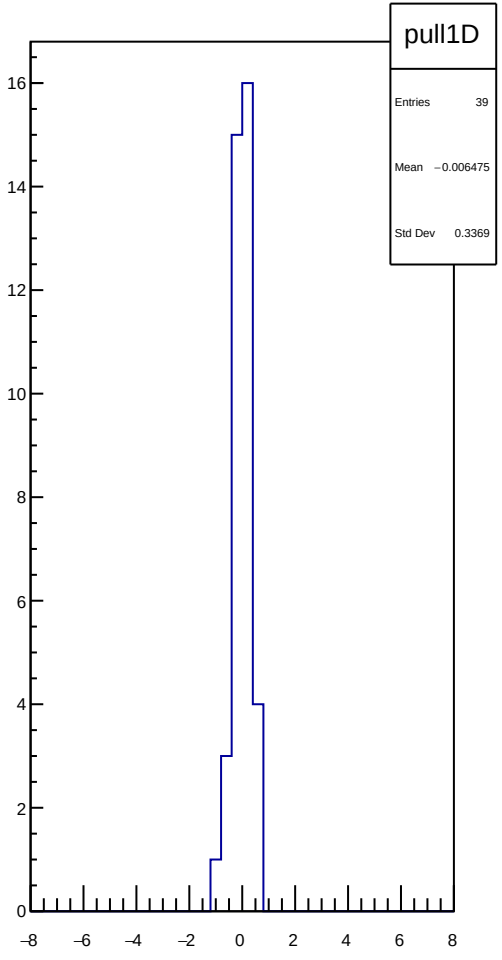

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 5.147 / 38
p0 −9.925 ± 1.591
pull
Entries 39
Mean −180.7
Std Dev 198.9

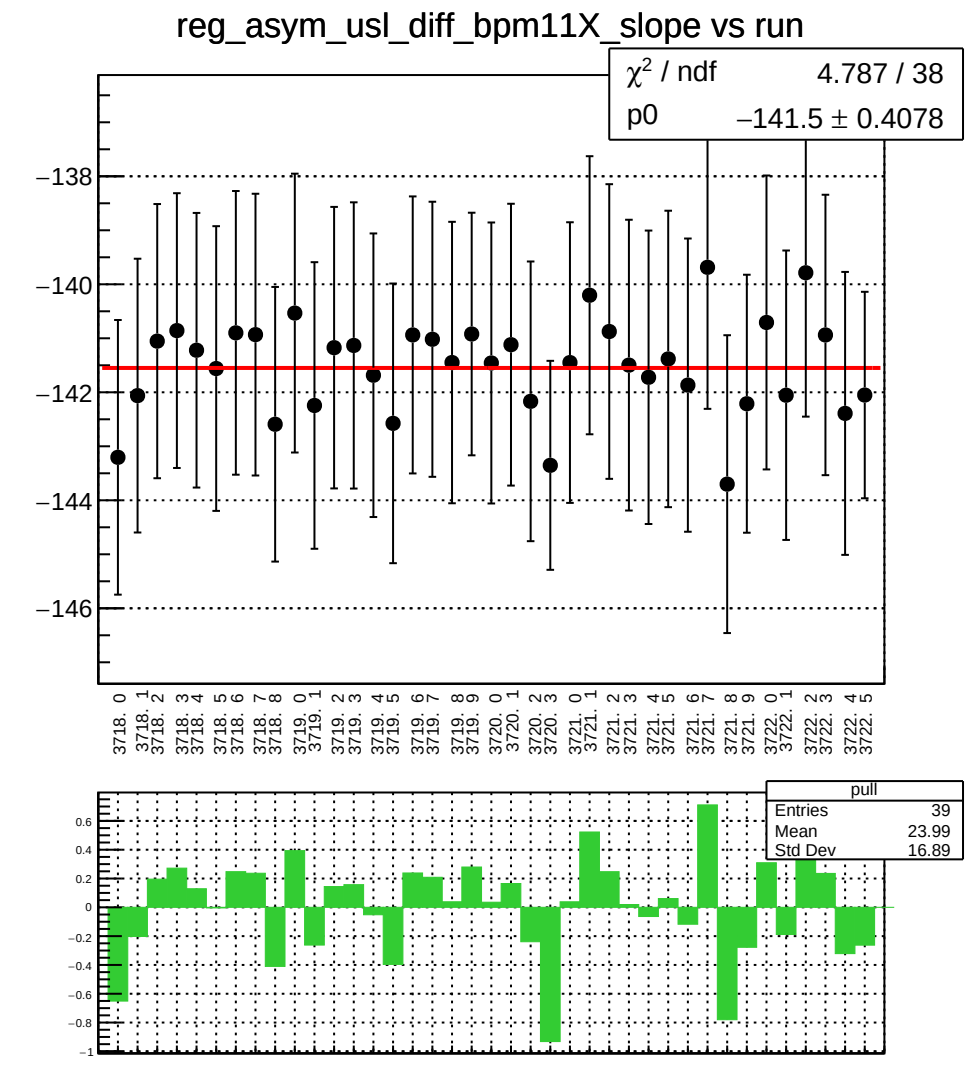

pull1D
Entries 39
Mean 0.005049
Std Dev 0.3633

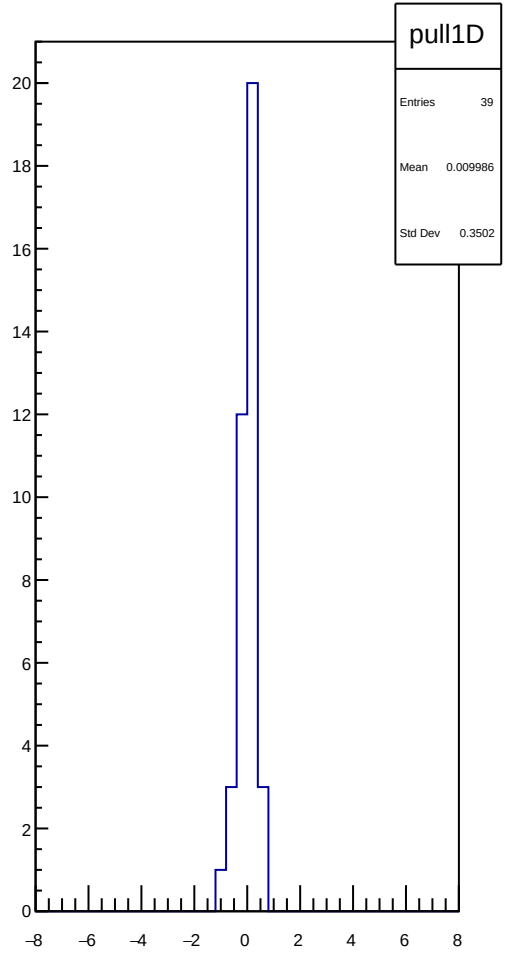

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 20.1 / 38
p0 −133.1 ± 0.4314
−124
−126
−128
−130
−132
−134
−136
−138
−140
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 316.1
Std Dev 286.2
2
1.5
1
0.5
0
−0.5
−1
−1.5

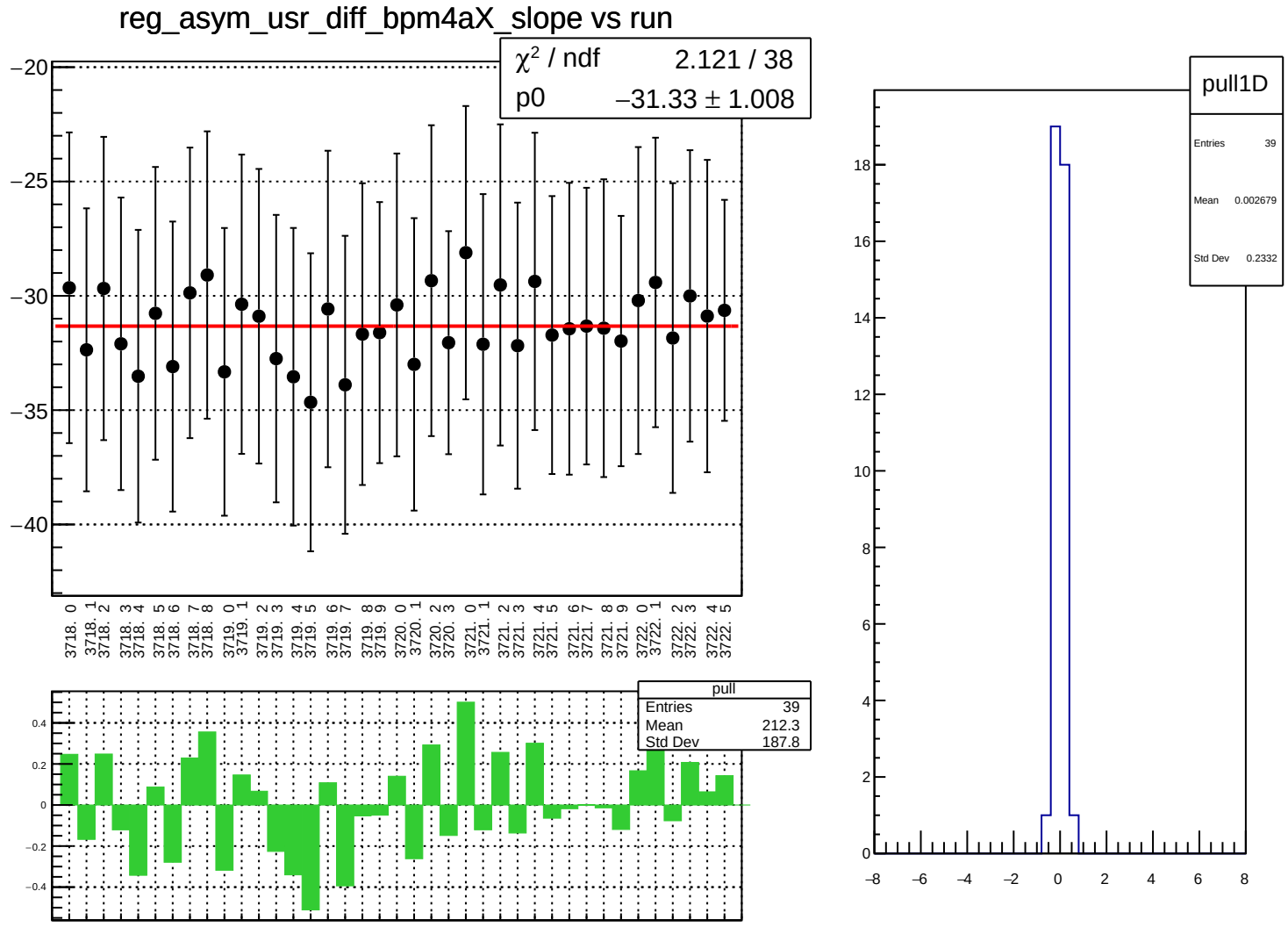

pull1D
Entries 39
Mean −0.003857
Std Dev 0.7179
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

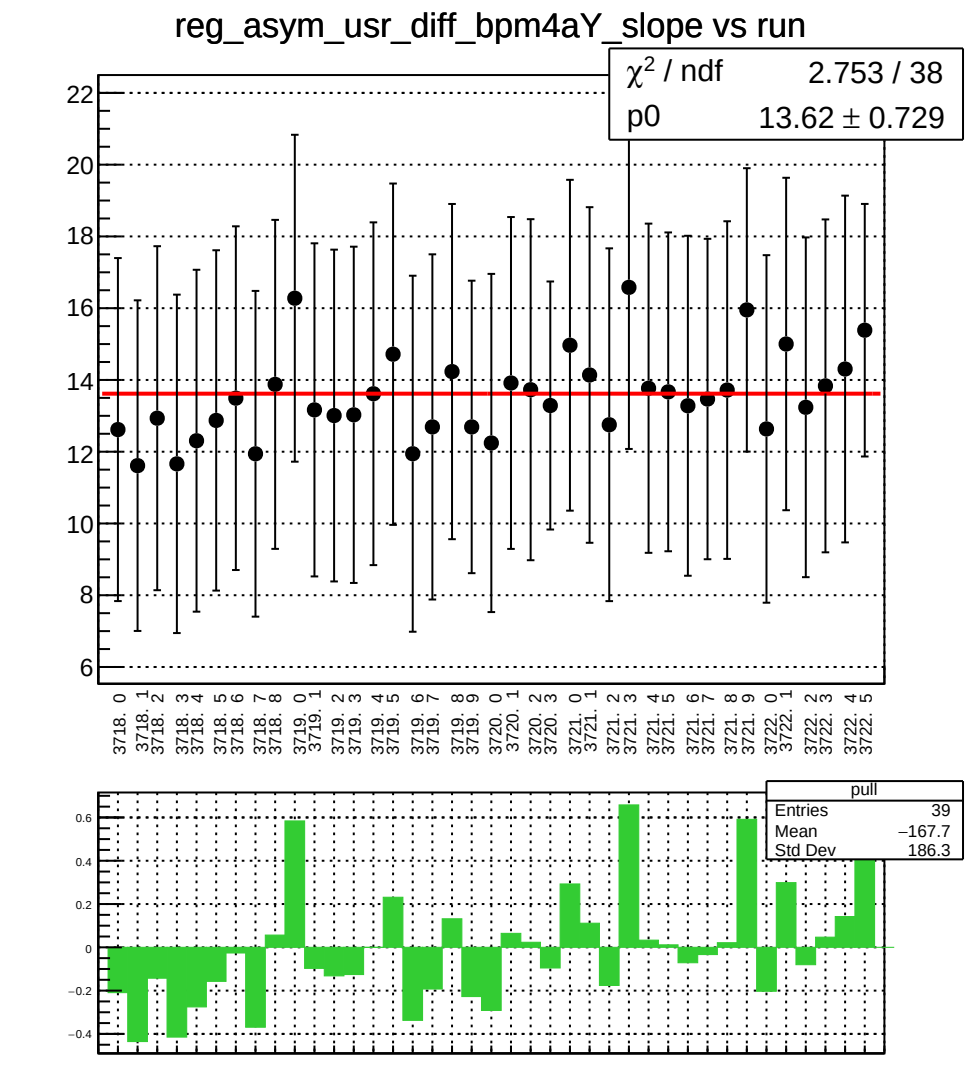

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 4.429 / 38
p0 34.92 ± 2.479
pull
Entries 39
Mean −79.23
Std Dev 98.36

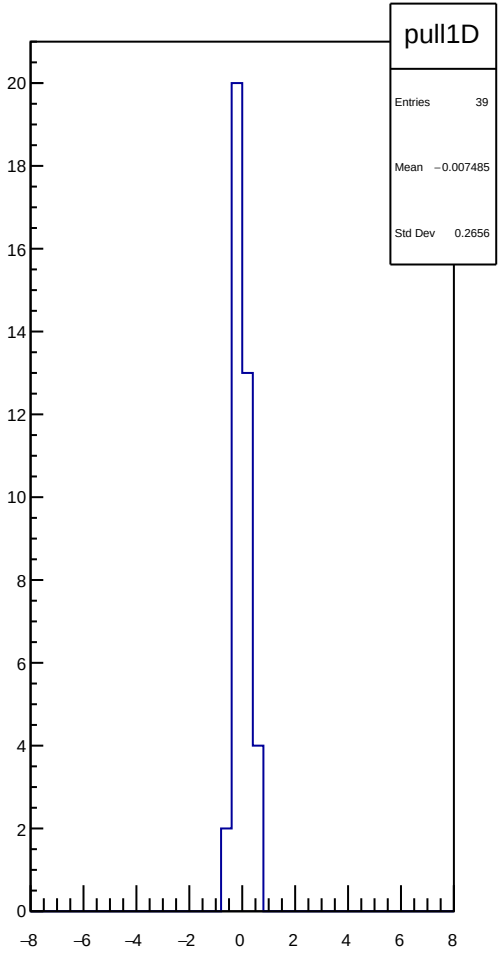

pull1D
Entries 39
Mean −0.006475
Std Dev 0.3369

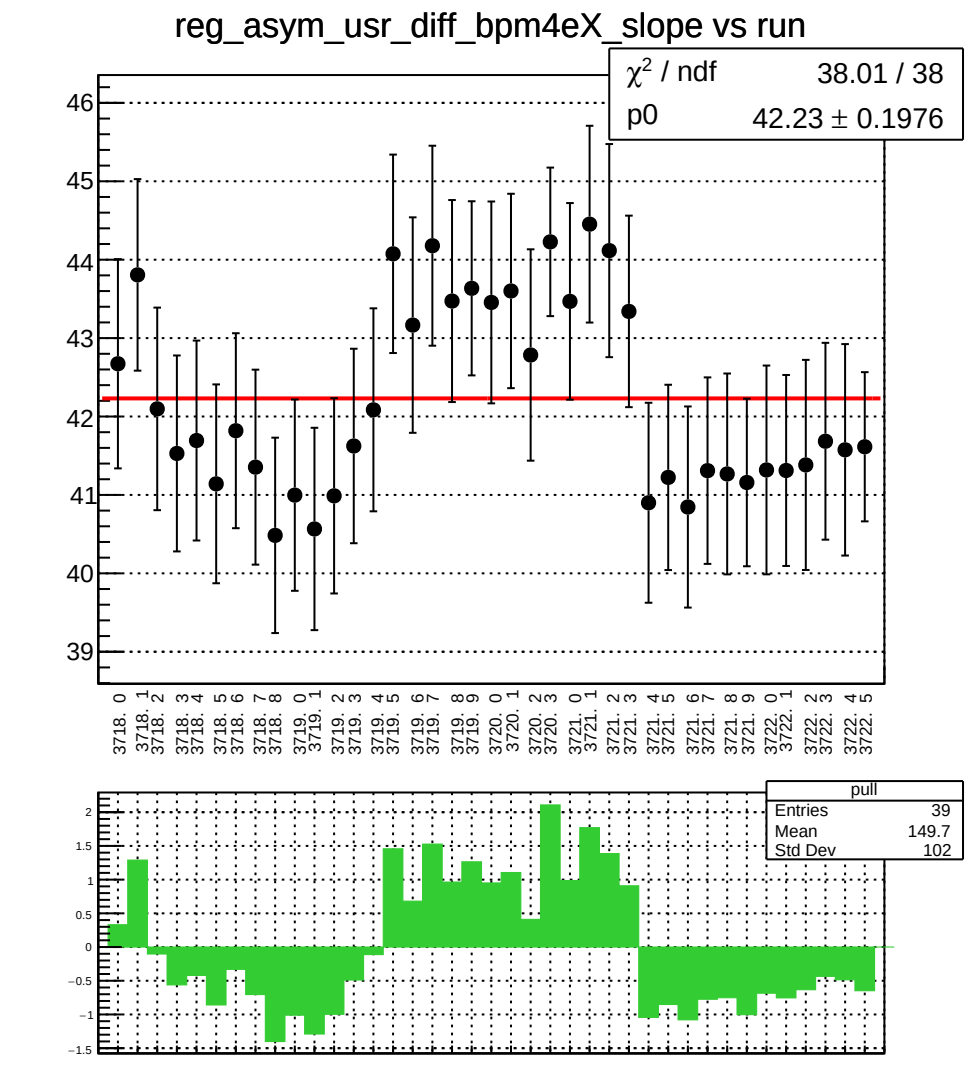

reg_asym_usl_diff_bpm11X_slope vs run
χ² / ndf 4.787 / 38
p0 −141.5 ± 0.4078
−138
−140
−142
−144
−146
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 23.99
Std Dev 16.89
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

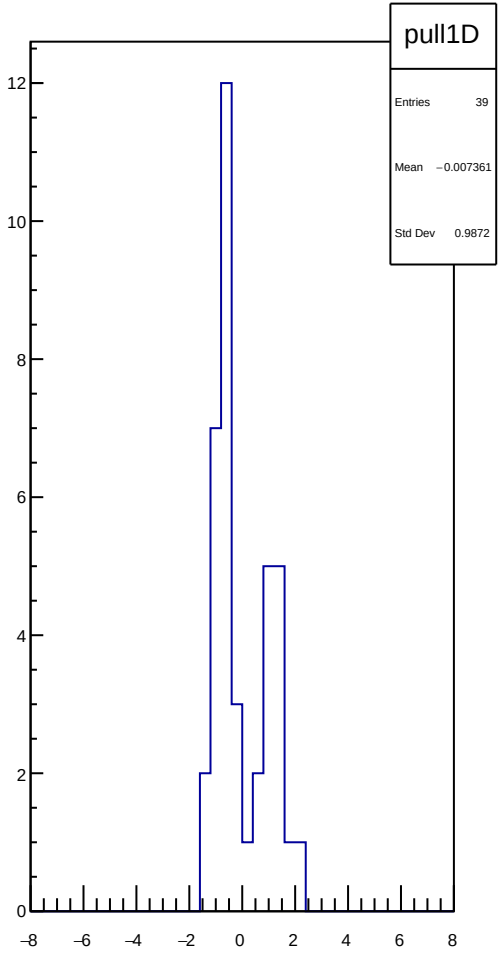

pull1D
Entries 39
Mean 0.009986
Std Dev 0.3502
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

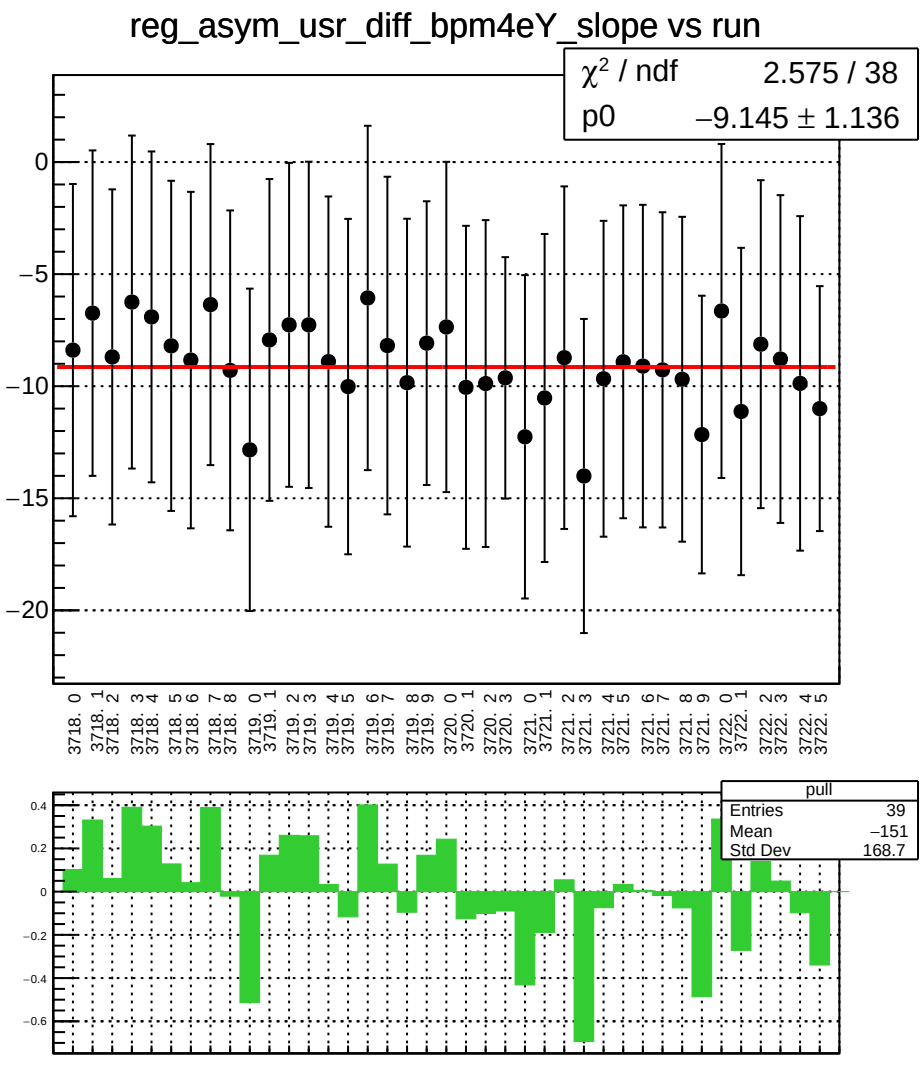

reg_asym_usr_diff_bpm4aX_slope vs run
χ² / ndf 2.121 / 38
p0 −31.33 ± 1.008
−20
−25
−30
−35
−40
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 212.3
Std Dev 187.8
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 39
Mean 0.002679
Std Dev 0.2332
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

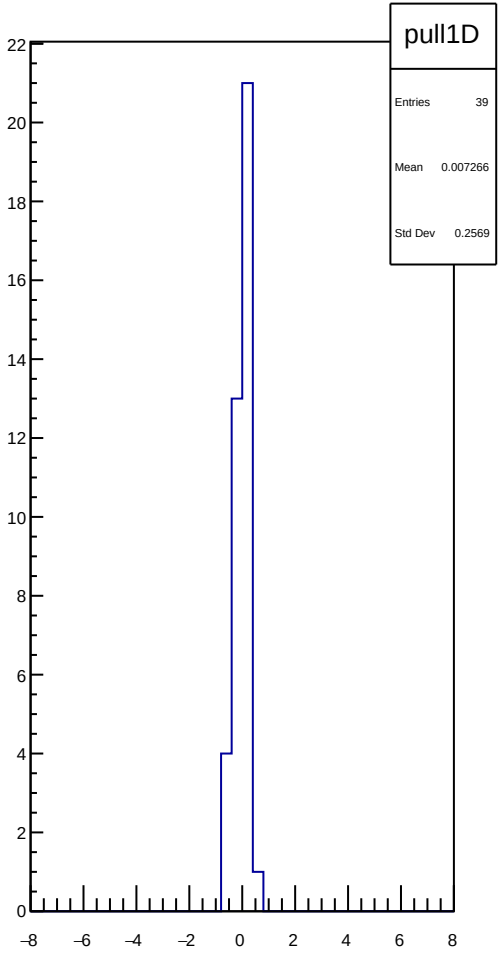

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 2.753 / 38
p0 13.62 ± 0.729
pull
Entries 39
Mean −167.7
Std Dev 186.3

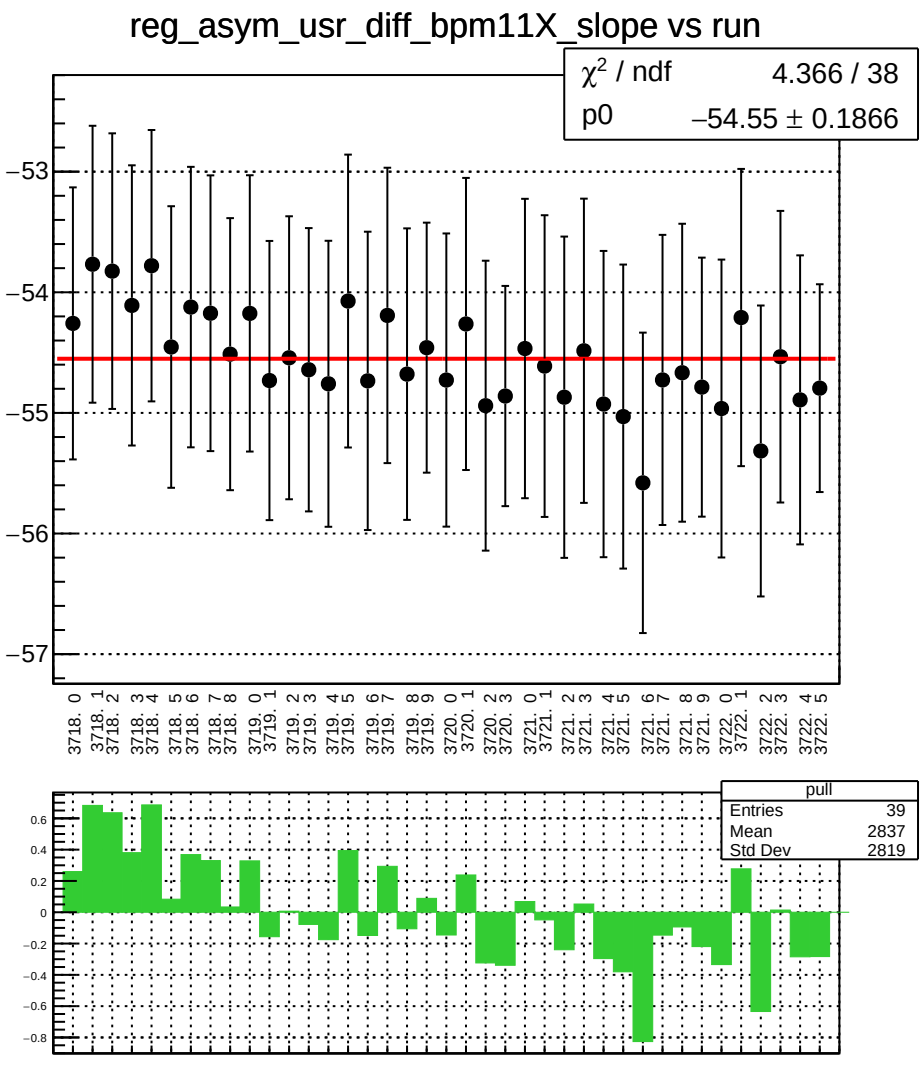

pull1D
Entries 39
Mean −0.007485
Std Dev 0.2656

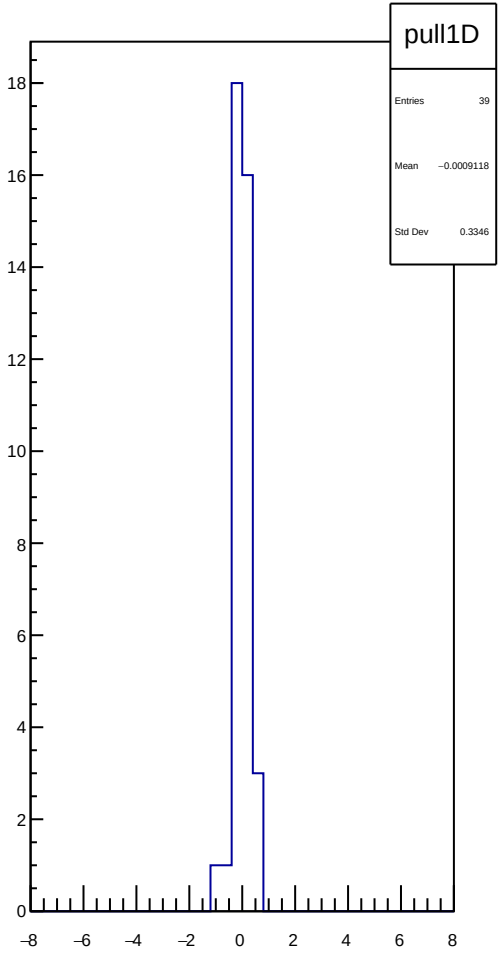

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 38.01 / 38
p0 42.23 ± 0.1976
pull
Entries 39
Mean 149.7
Std Dev 102

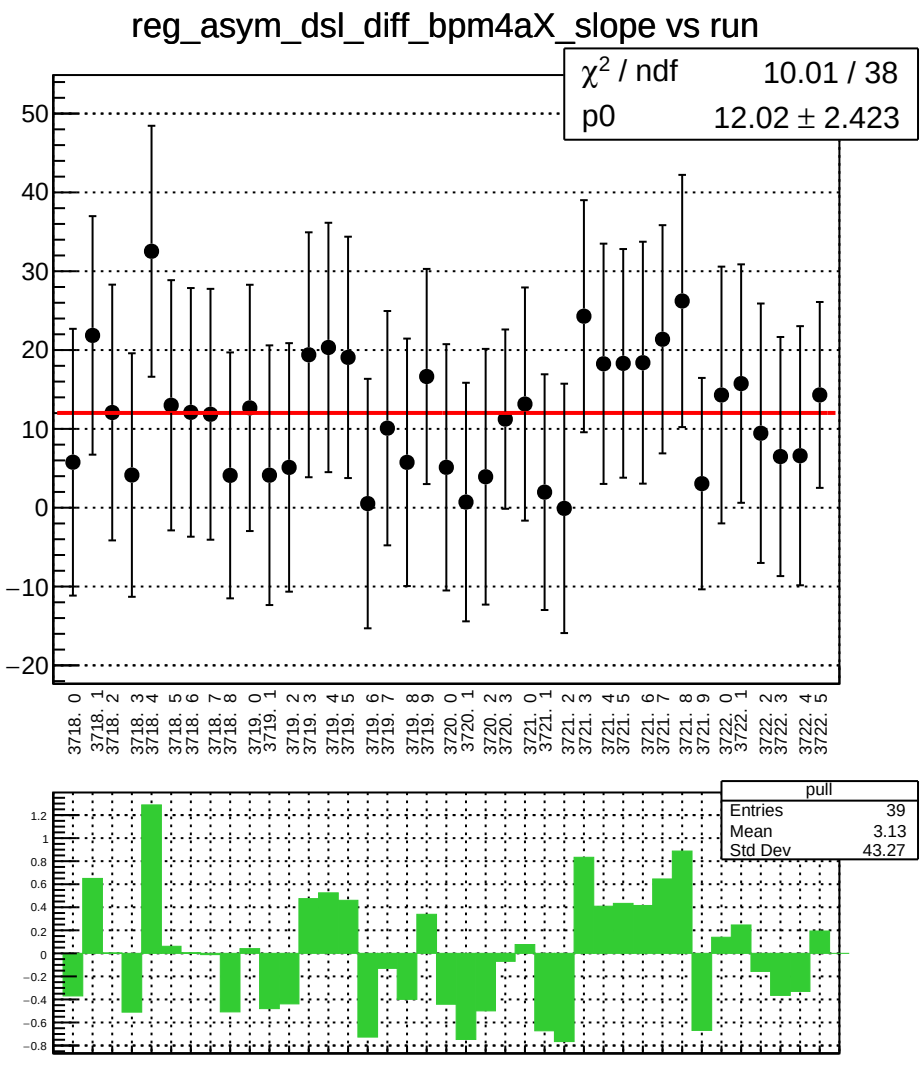

pull1D
Entries 39
Mean −0.007361
Std Dev 0.9872

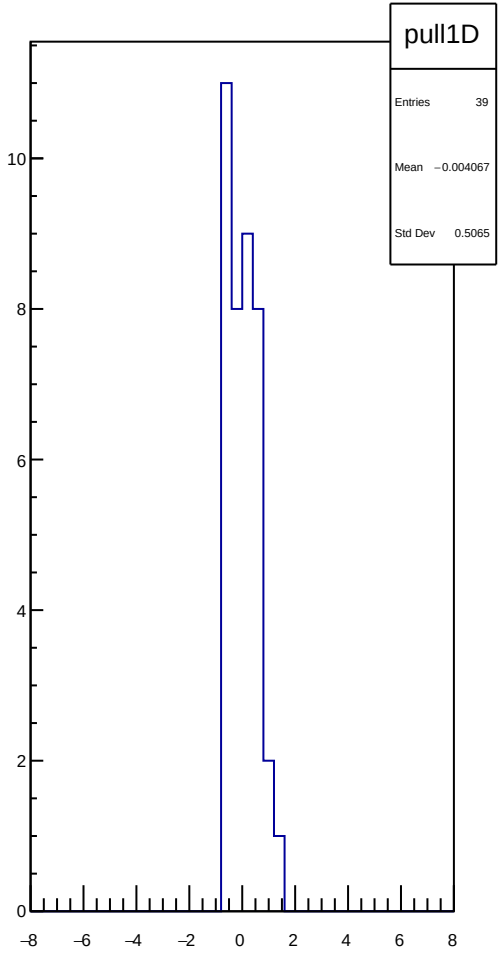

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 2.575 / 38
p0 −9.145 ± 1.136
0
−5
−10
−15
−20
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −151
Std Dev 168.7
0.4
0.2
0
−0.2
−0.4
−0.6

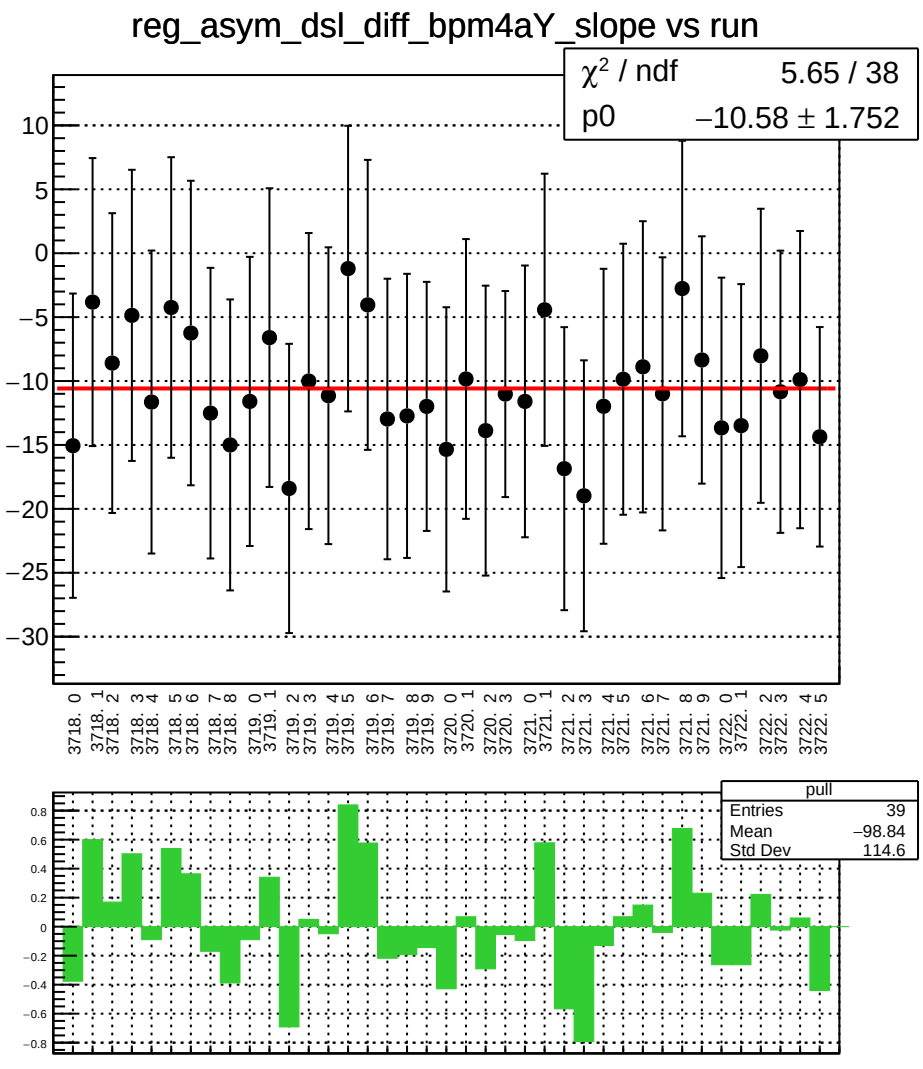

pull1D
Entries 39
Mean 0.007266
Std Dev 0.2569
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

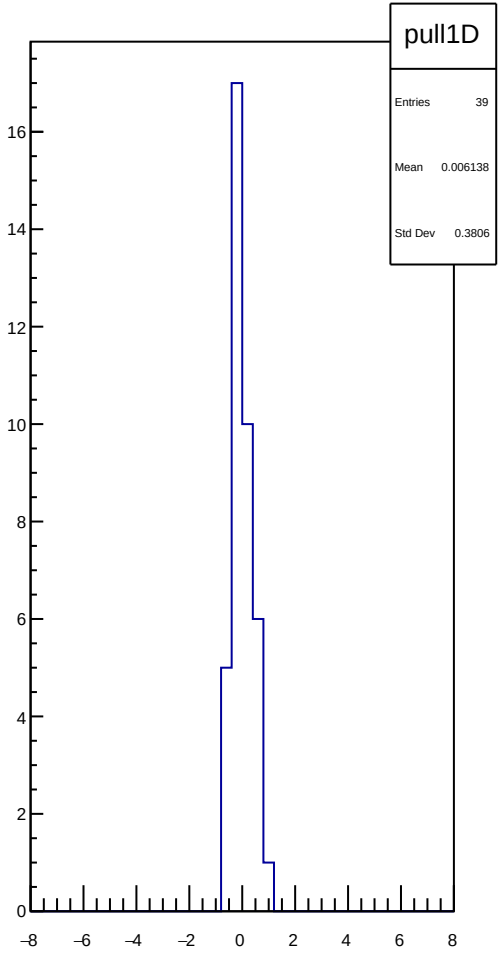

reg_asym_usr_diff_bpm11X_slope vs run
χ² / ndf 4.366 / 38
p0 −54.55 ± 0.1866
−53
−54
−55
−56
−57
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 2837
Std Dev 2819
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

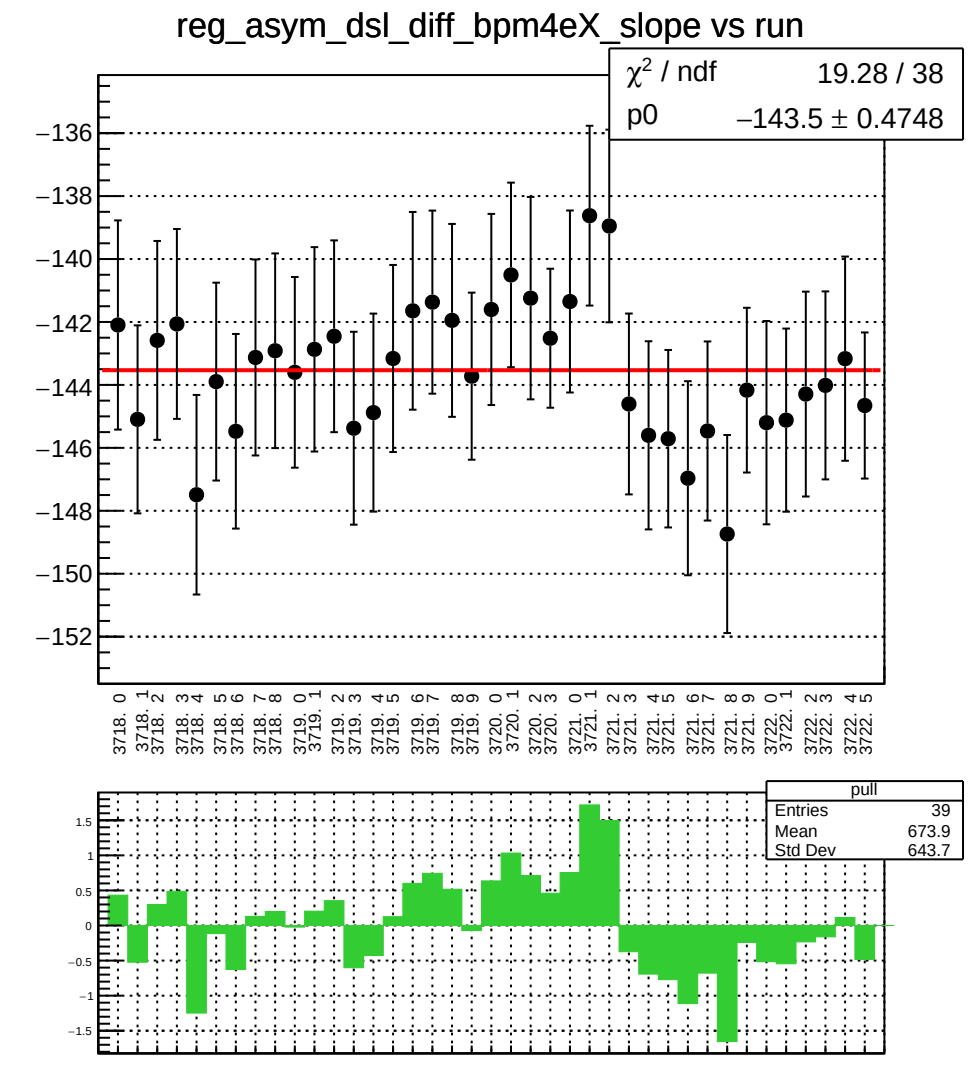

pull1D
Entries 39
Mean −0.0009118
Std Dev 0.3346
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

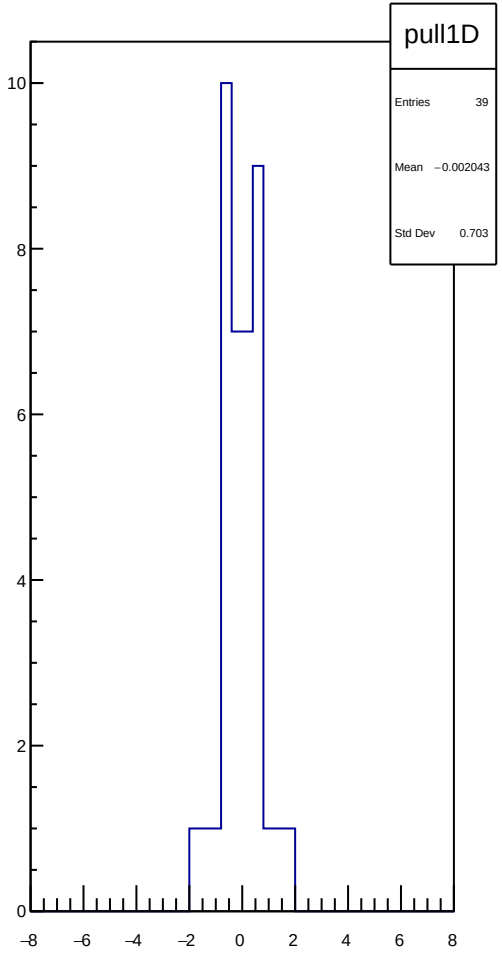

reg_asym_dsl_diff_bpm4aX_slope vs run
χ² / ndf 10.01 / 38
p0 12.02 ± 2.423
50
40
30
20
10
0
−10
−20
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 3.13
Std Dev 43.27
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

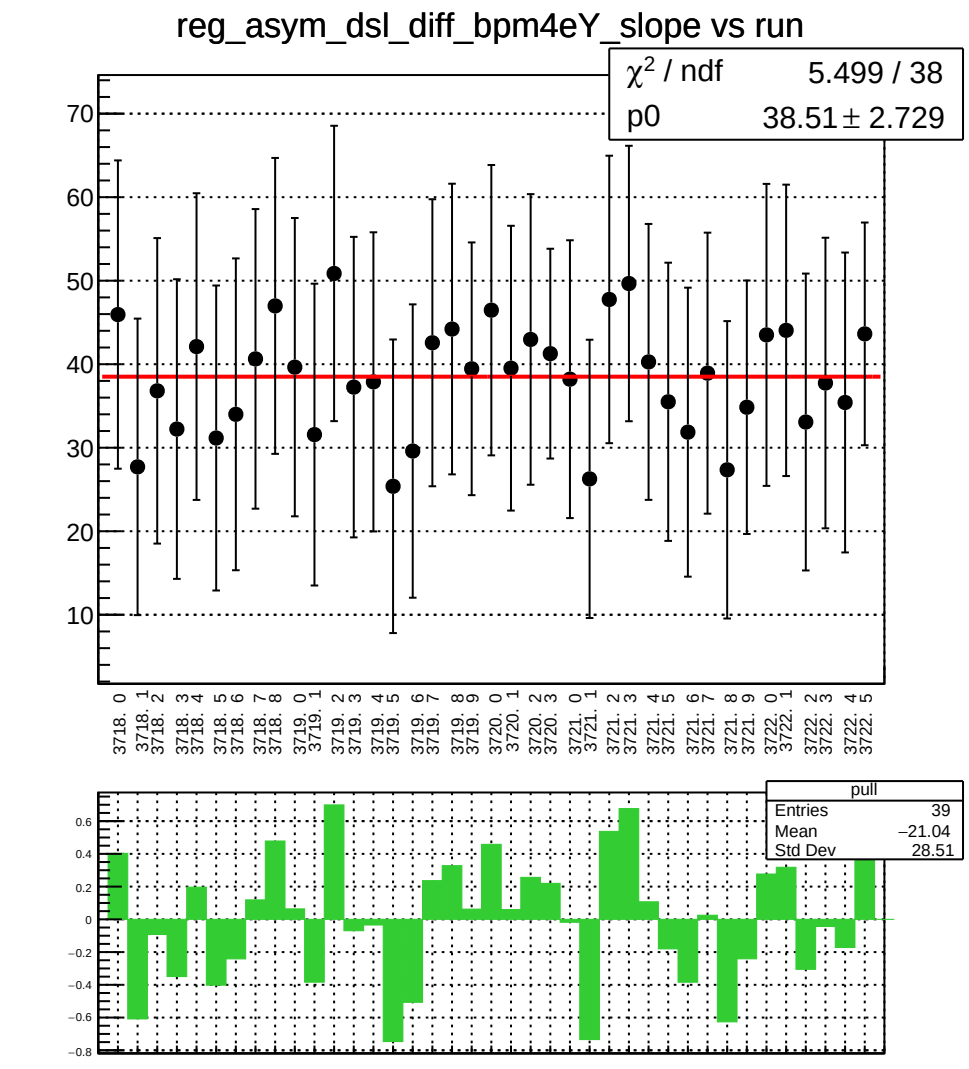

pull1D
Entries 39
Mean −0.004067
Std Dev 0.5065
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

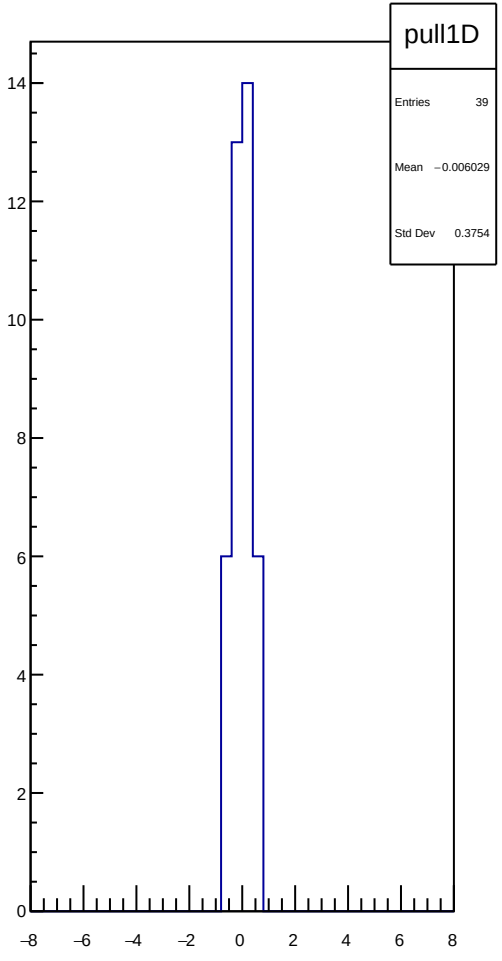

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 5.65 / 38
p0 −10.58 ± 1.752
pull
Entries 39
Mean −98.84
Std Dev 114.6

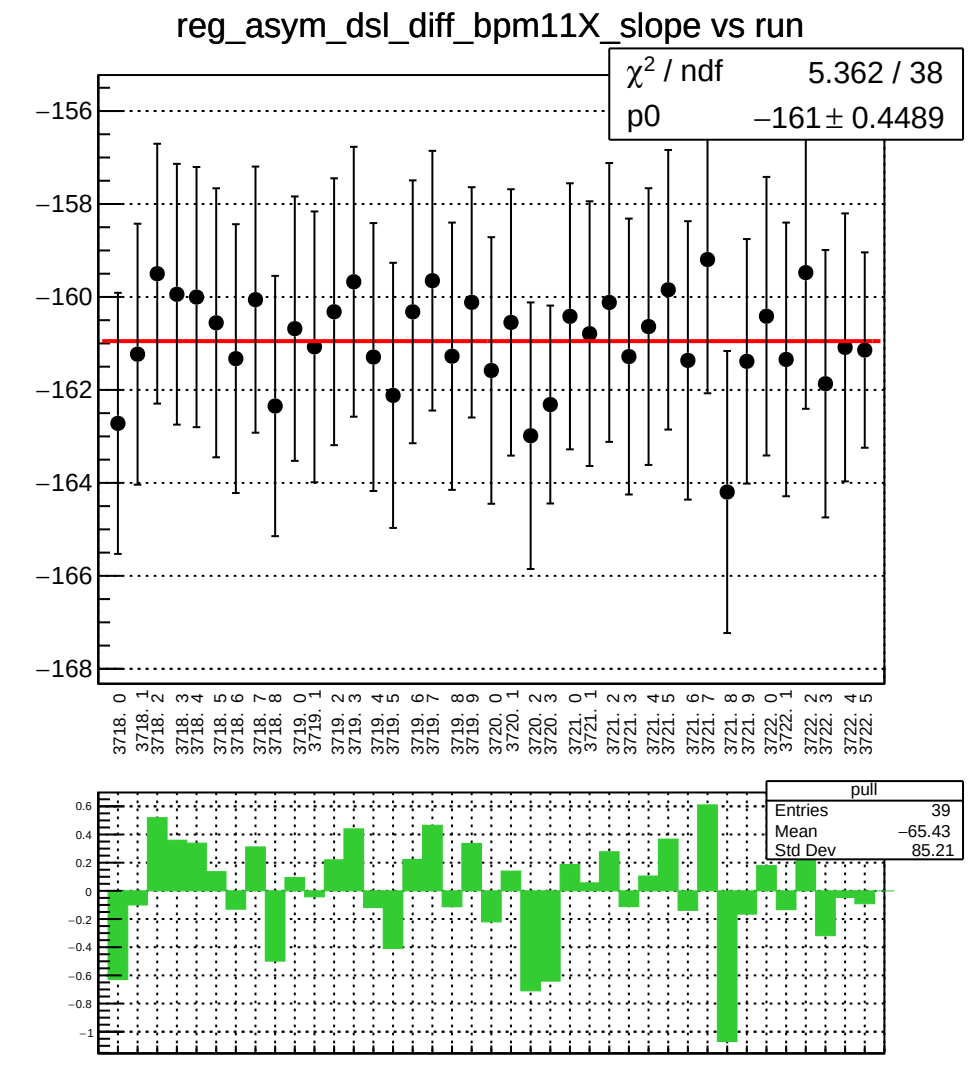

pull1D
Entries 39
Mean 0.006138
Std Dev 0.3806

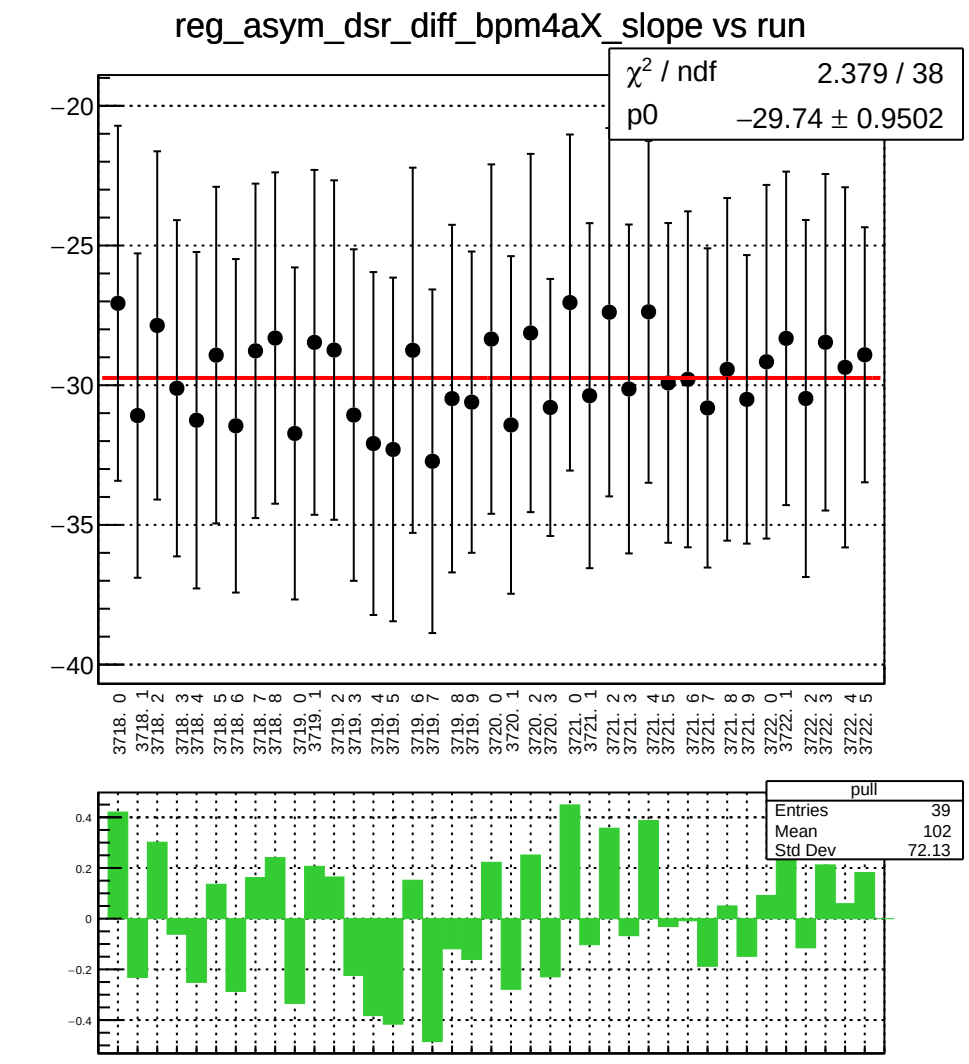

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 19.28 / 38
p0 −143.5 ± 0.4748
pull
Entries 39
Mean 673.9
Std Dev 643.7

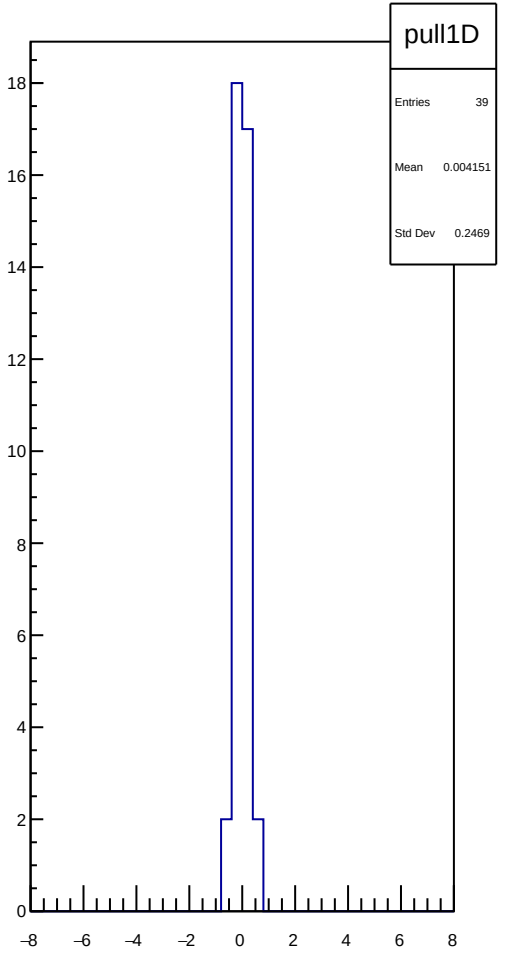

pull1D
Entries 39
Mean −0.002043
Std Dev 0.703

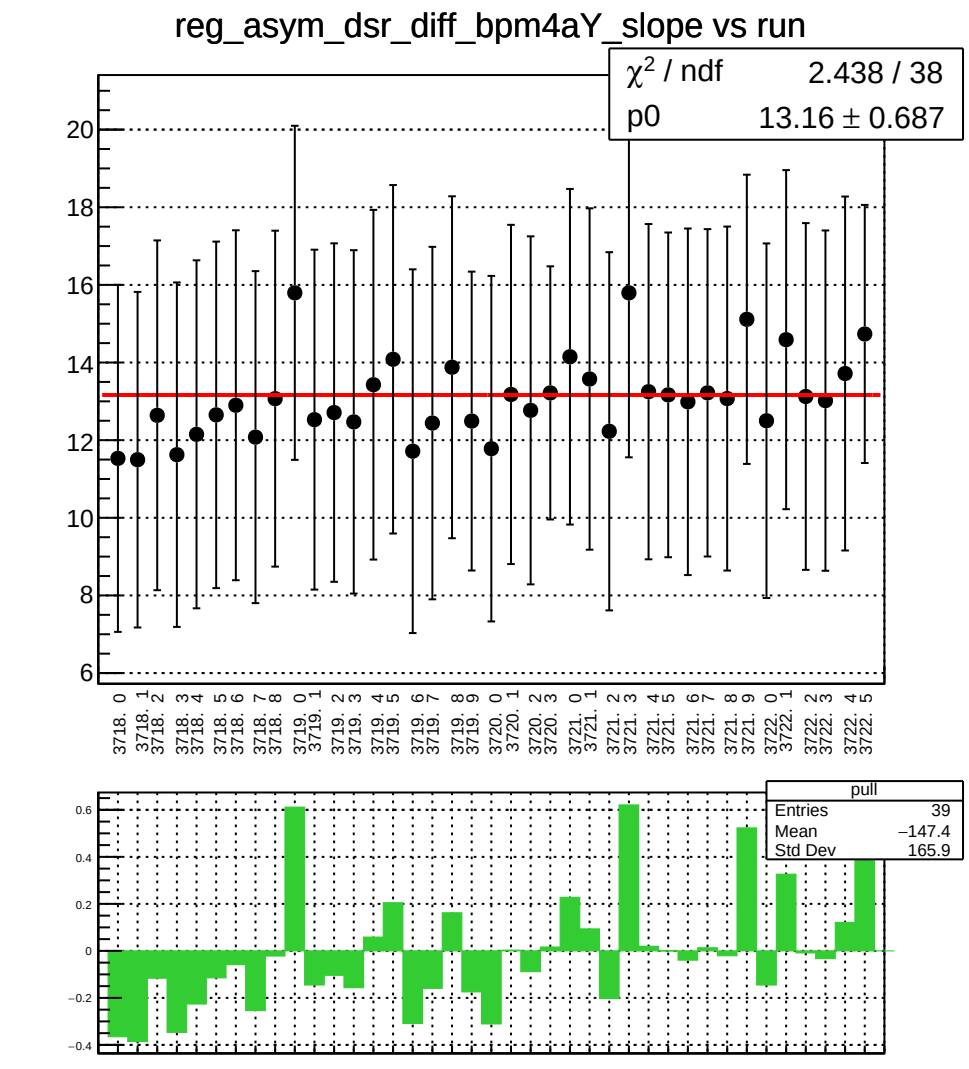

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 5.499 / 38
p0 38.51 ± 2.729
pull
Entries 39
Mean −21.04
Std Dev 28.51

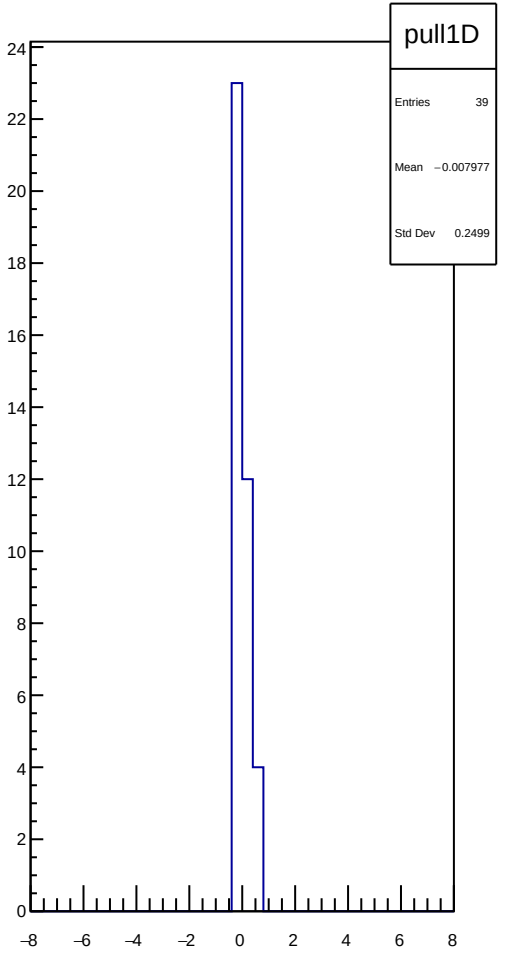

pull1D
Entries 39
Mean −0.006029
Std Dev 0.3754

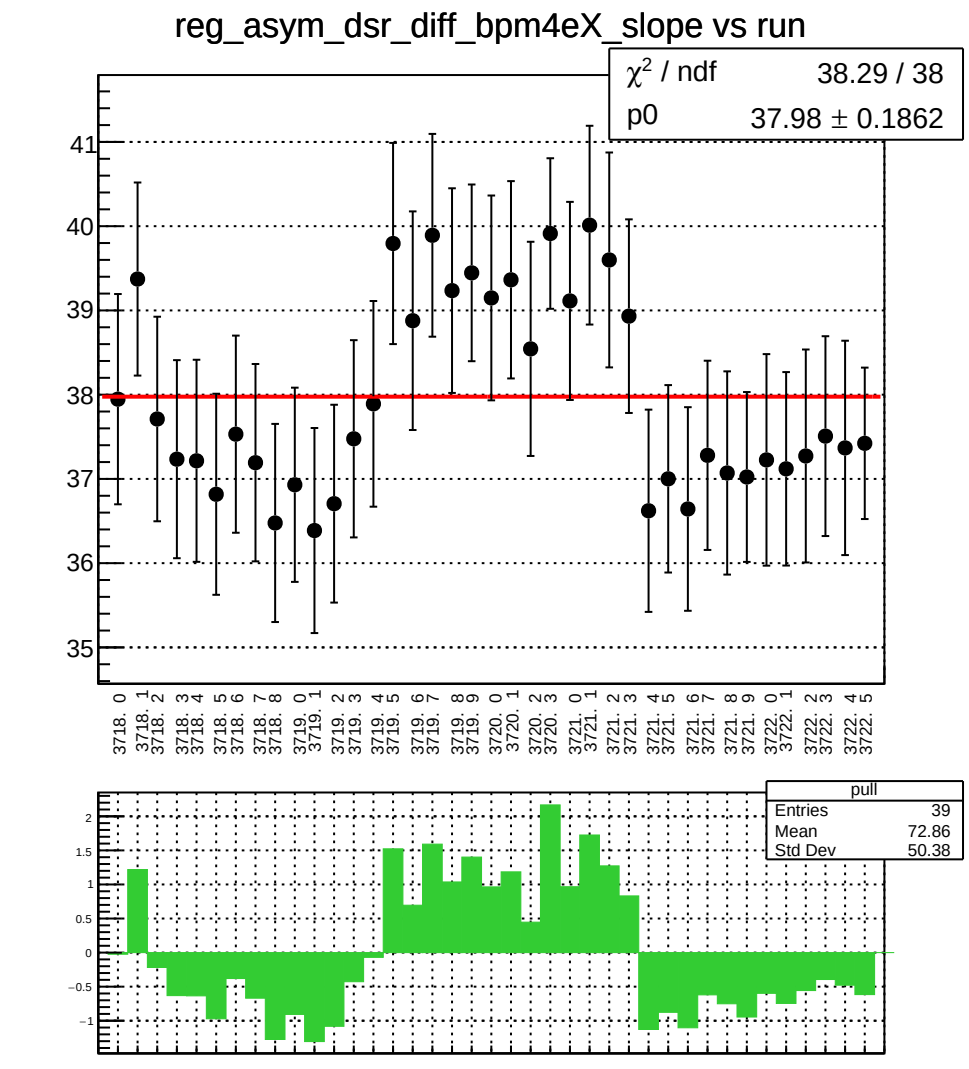

reg_asym_dsl_diff_bpm11X_slope vs run
χ² / ndf 5.362 / 38
p0 −161 ± 0.4489
−156
−158
−160
−162
−164
−166
−168
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −65.43
Std Dev 85.21
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 39
Mean 0.004723
Std Dev 0.3708
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

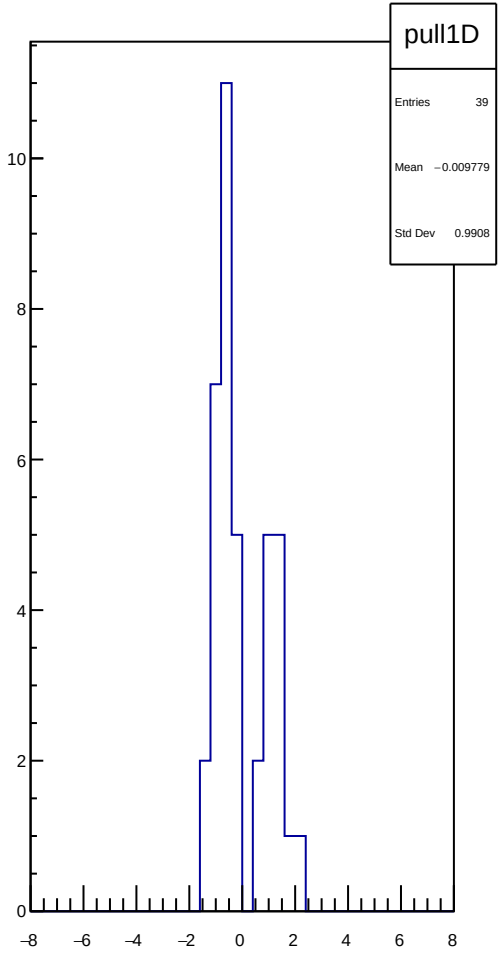

reg_asym_dsr_diff_bpm4aX_slope vs run
χ² / ndf 2.379 / 38
p0 −29.74 ± 0.9502
−20
−25
−30
−35
−40
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 102
Std Dev 72.13
0.4
0.2
0
−0.2
−0.4

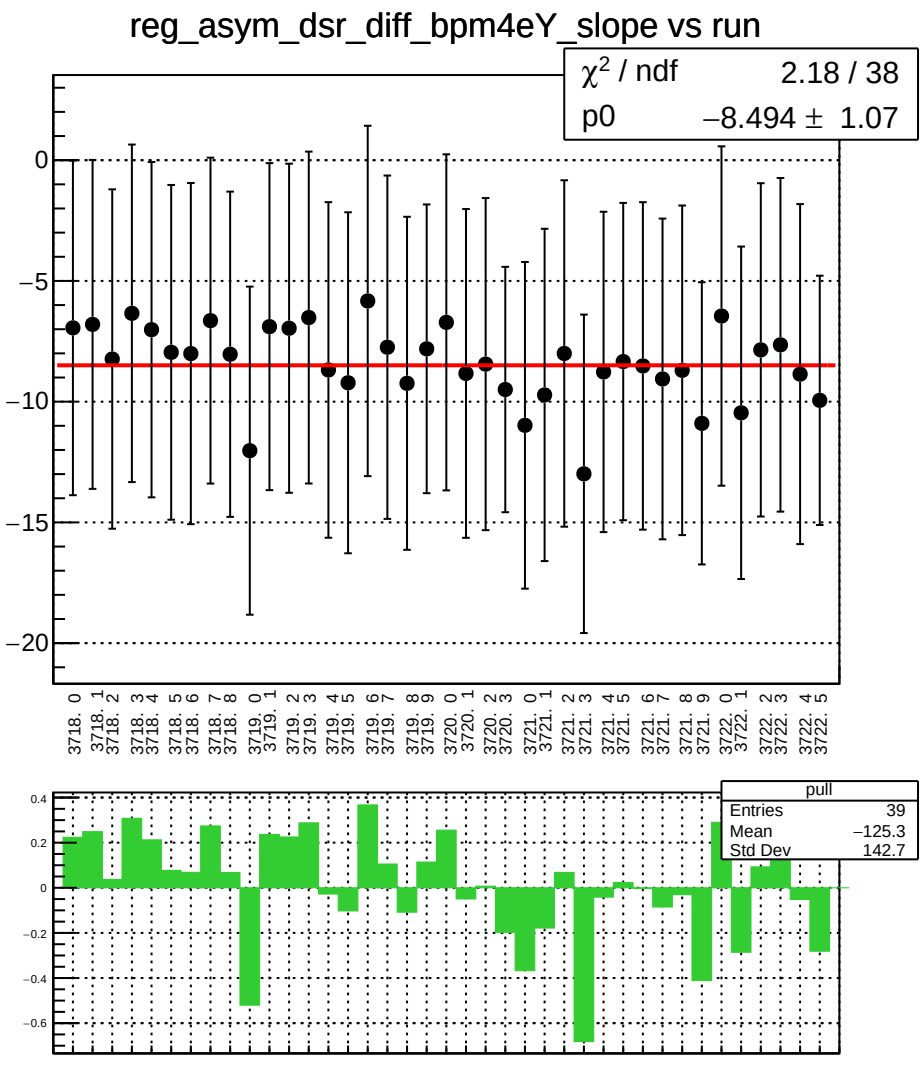

pull1D
Entries 39
Mean 0.004151
Std Dev 0.2469
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

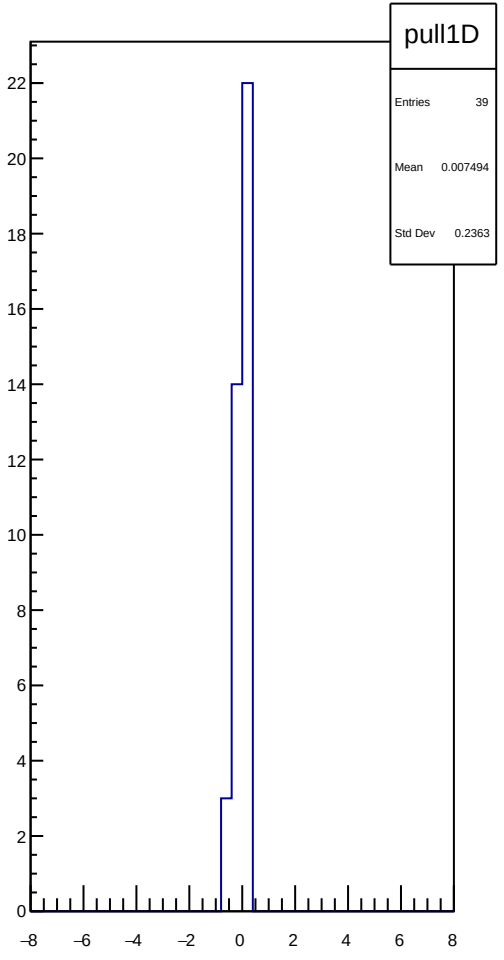

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 2.438 / 38
p0 13.16 ± 0.687
pull
Entries 39
Mean −147.4
Std Dev 165.9

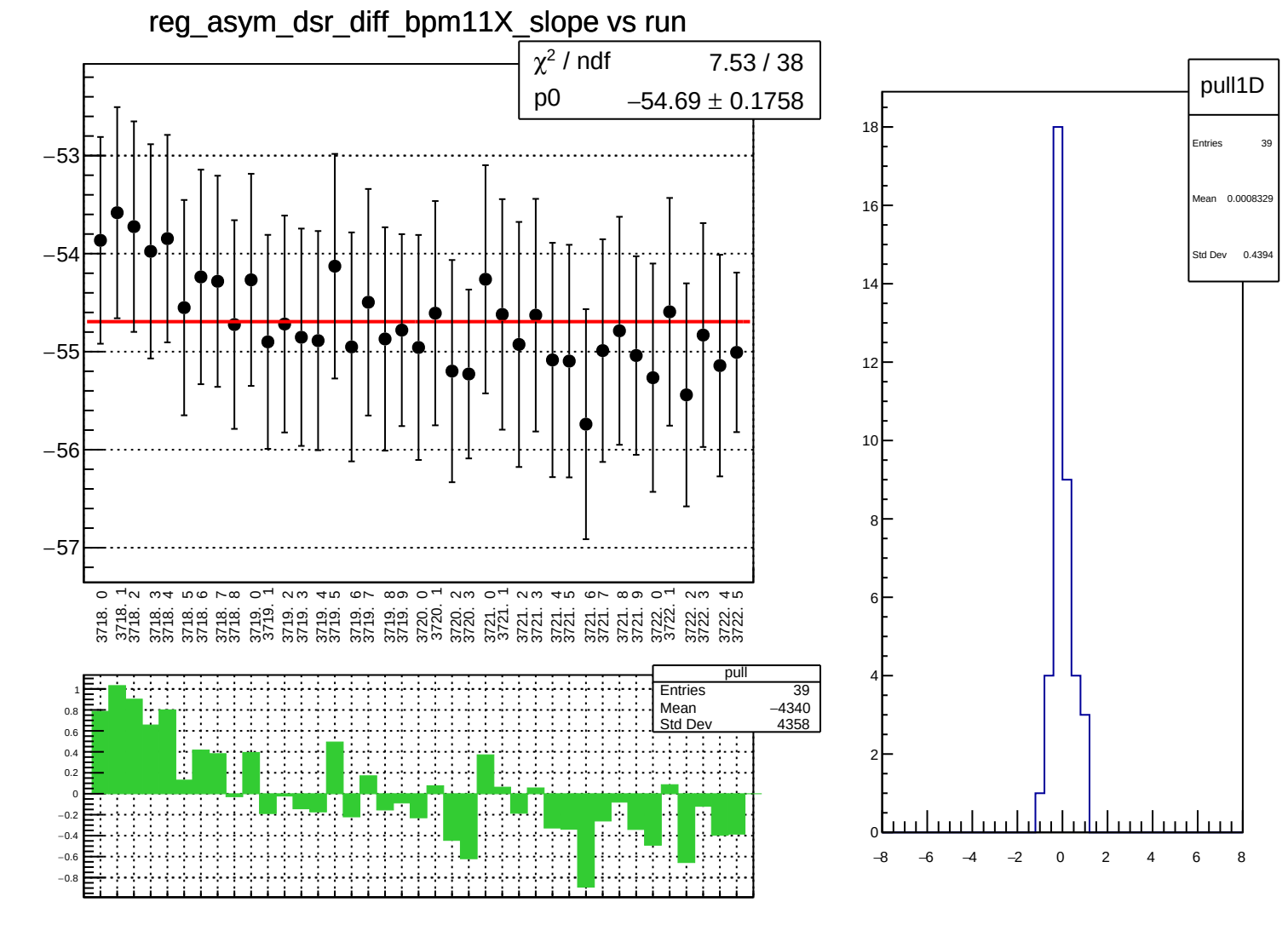

pull1D
Entries 39
Mean −0.007977
Std Dev 0.2499

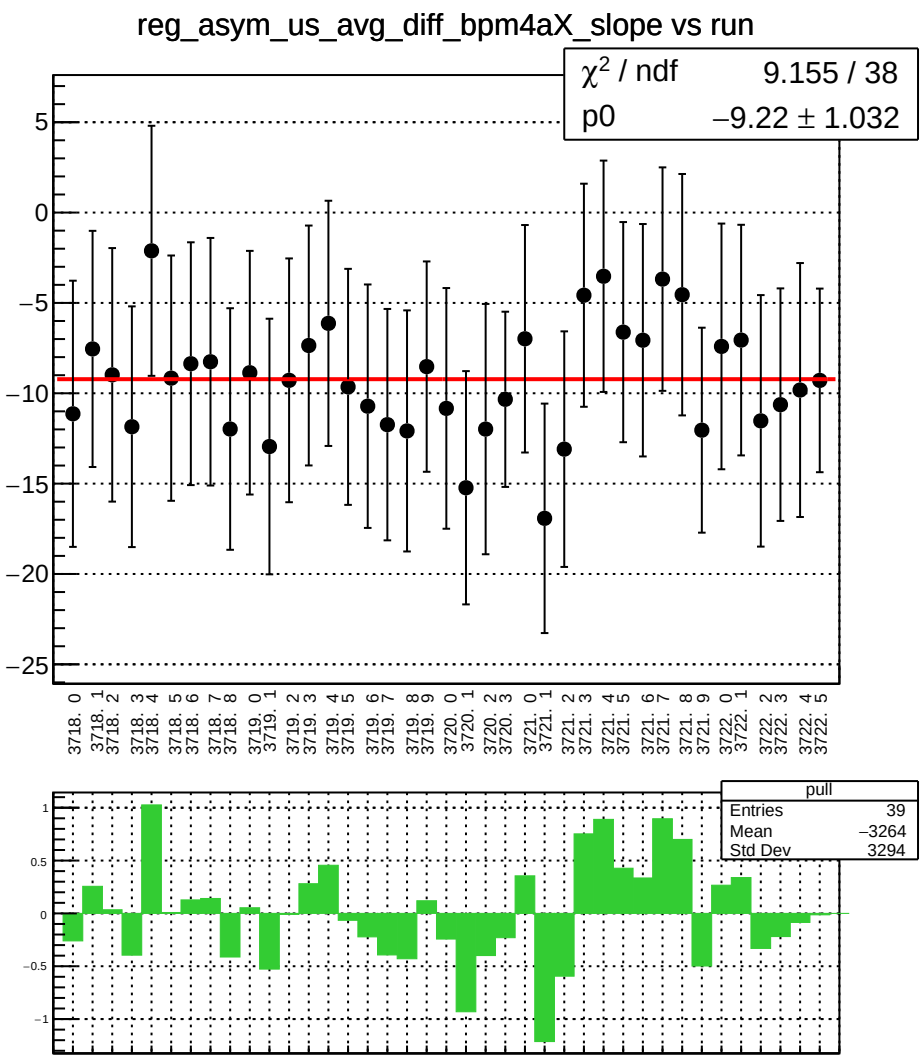

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 38.29 / 38
p0 37.98 ± 0.1862
pull
Entries 39
Mean 72.86
Std Dev 50.38

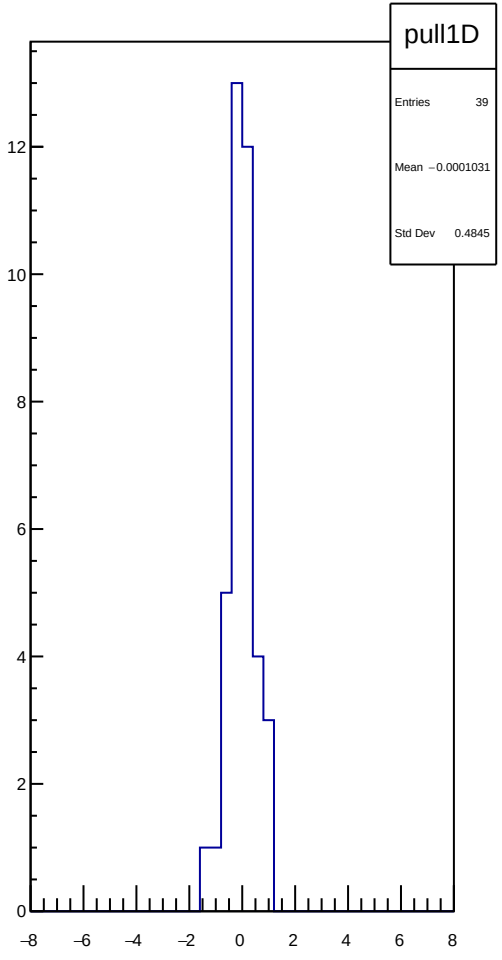

pull1D
Entries 39
Mean −0.009779
Std Dev 0.9908

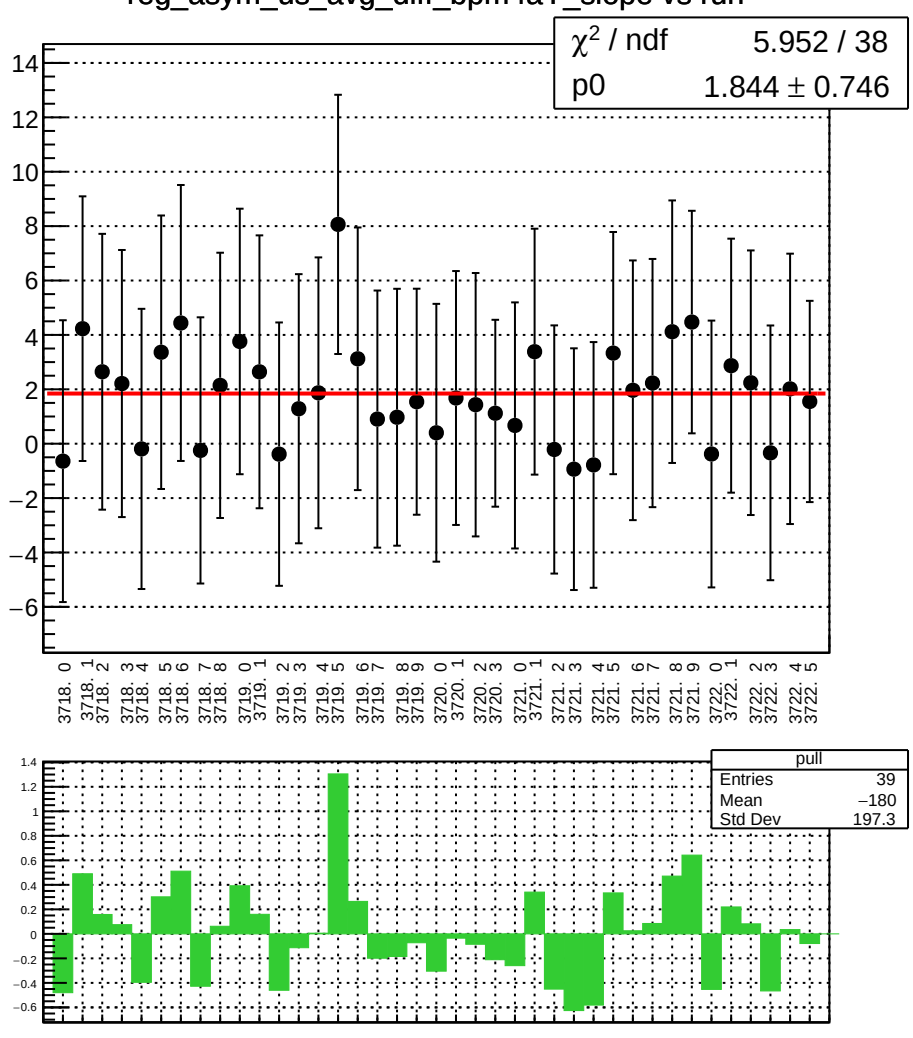

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 2.18 / 38
p0 −8.494 ± 1.07
0
−5
−10
−15
−20
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −125.3
Std Dev 142.7
0.4
0.2
0
−0.2
−0.4
−0.6

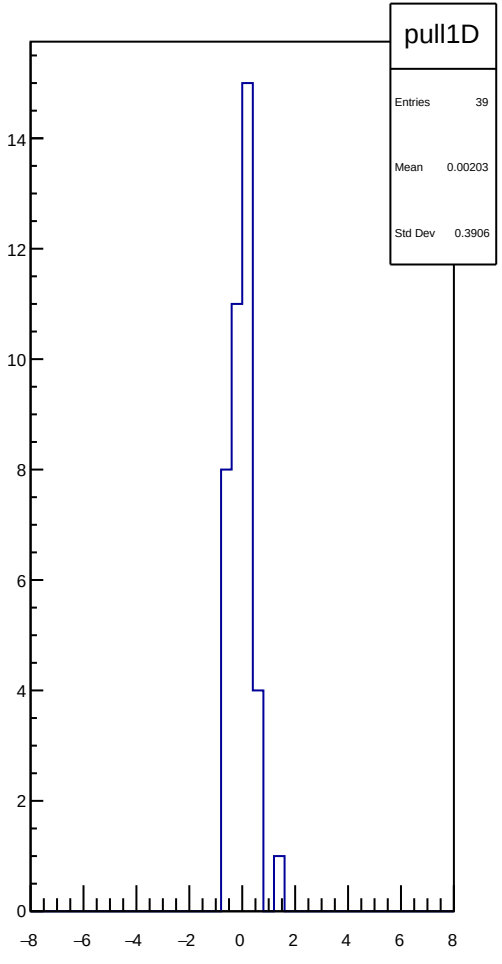

pull1D
Entries 39
Mean 0.007494
Std Dev 0.2363
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

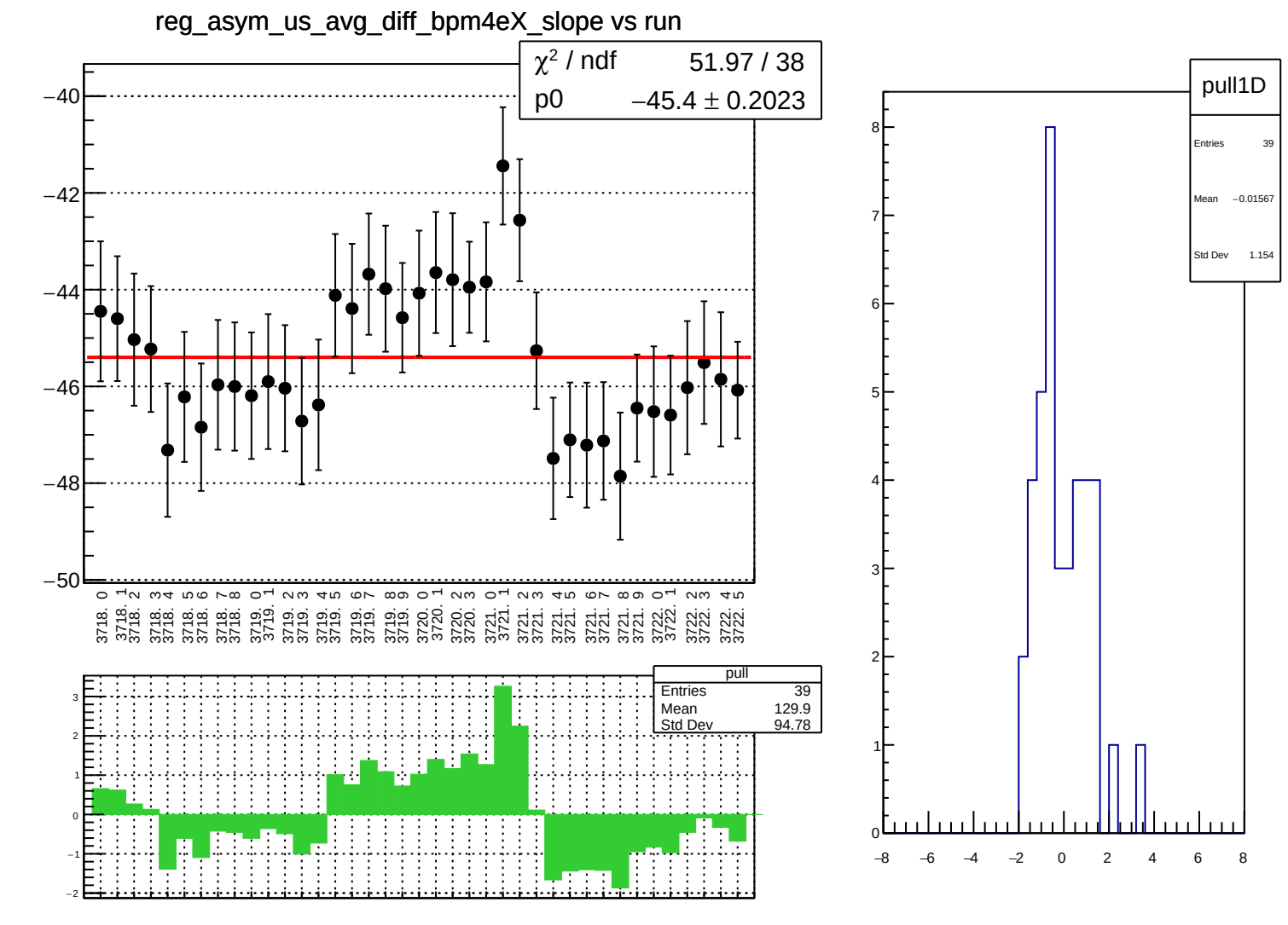

reg_asym_dsr_diff_bpm11X_slope vs run
χ² / ndf 7.53 / 38
p0 −54.69 ± 0.1758
−53
−54
−55
−56
−57
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −4340
Std Dev 4358
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 39
Mean 0.0008329
Std Dev 0.4394
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

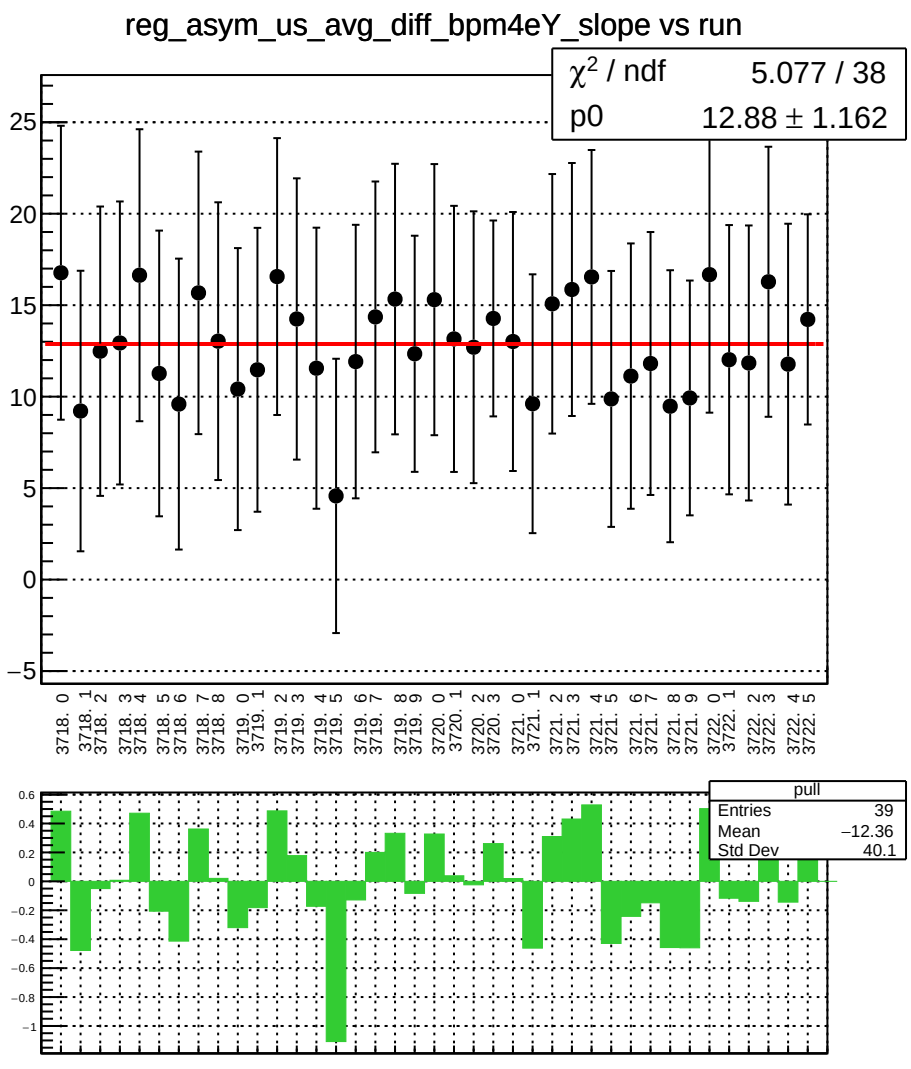

reg_asym_us_avg_diff_bpm4aX_slope vs run
χ² / ndf 9.155 / 38
p0 −9.22 ± 1.032
pull
Entries 39
Mean −3264
Std Dev 3294

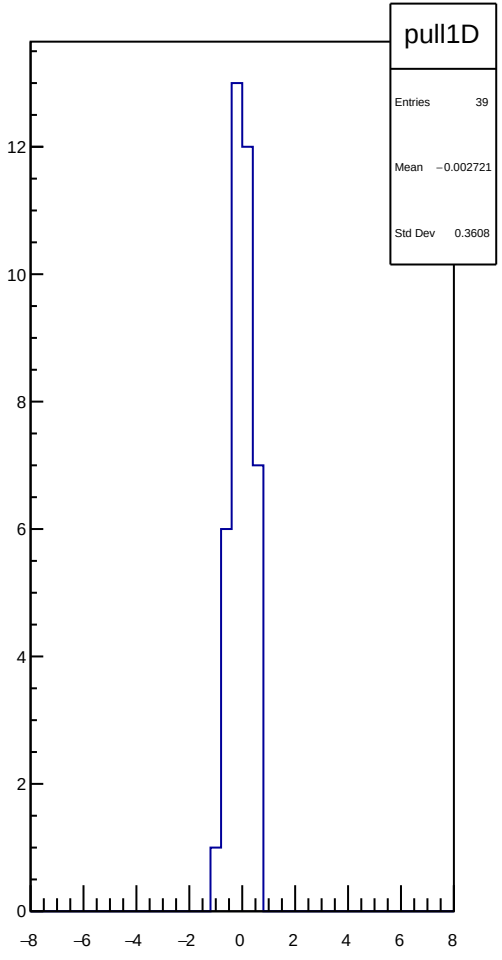

pull1D
Entries 39
Mean −0.0001031
Std Dev 0.4845

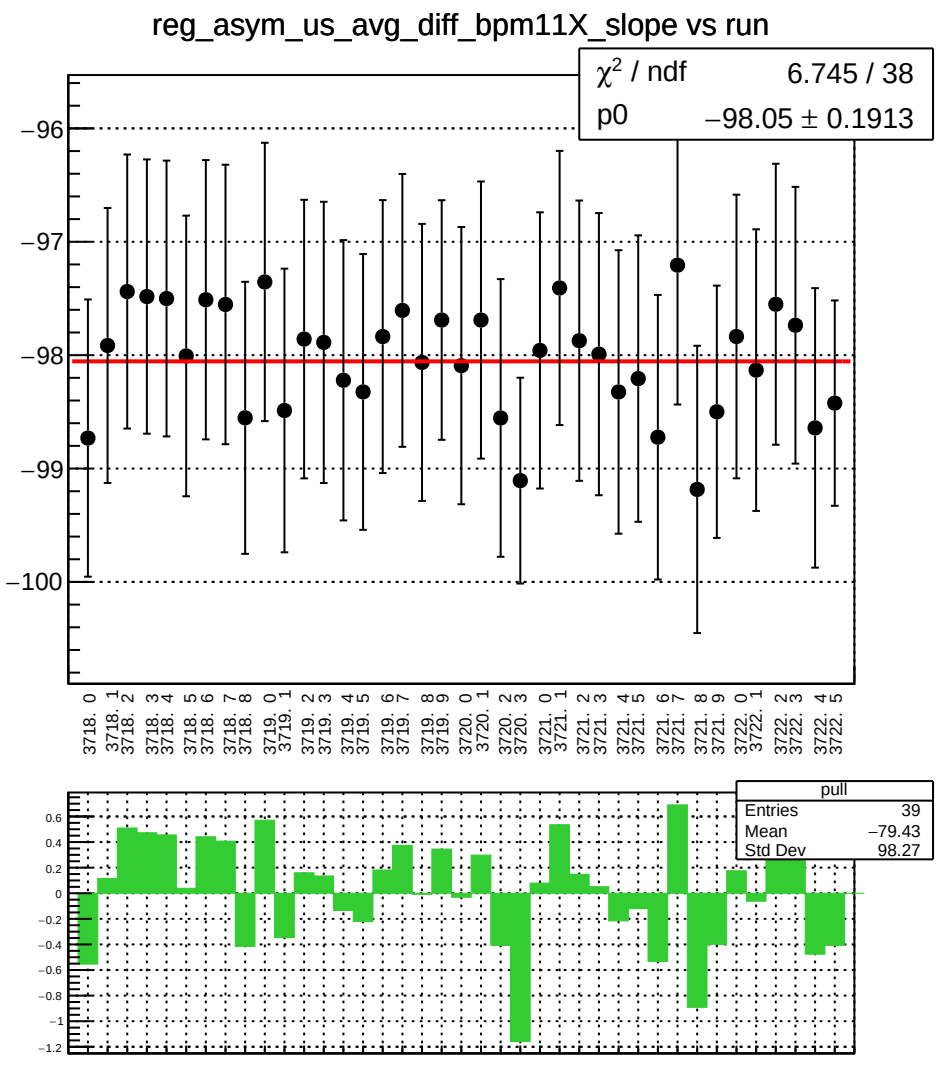

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.952 / 38
p0 1.844 ± 0.746
pull
Entries 39
Mean −180
Std Dev 197.3

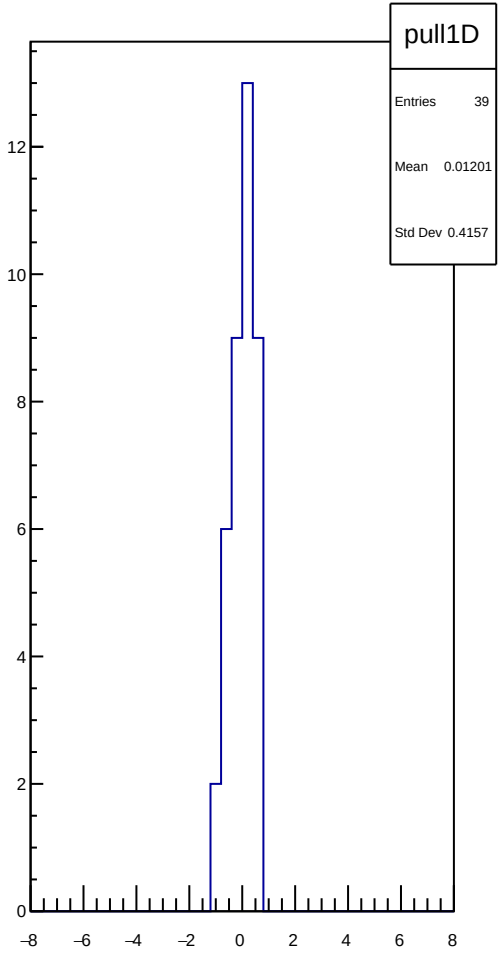

pull1D
Entries 39
Mean 0.00203
Std Dev 0.3906

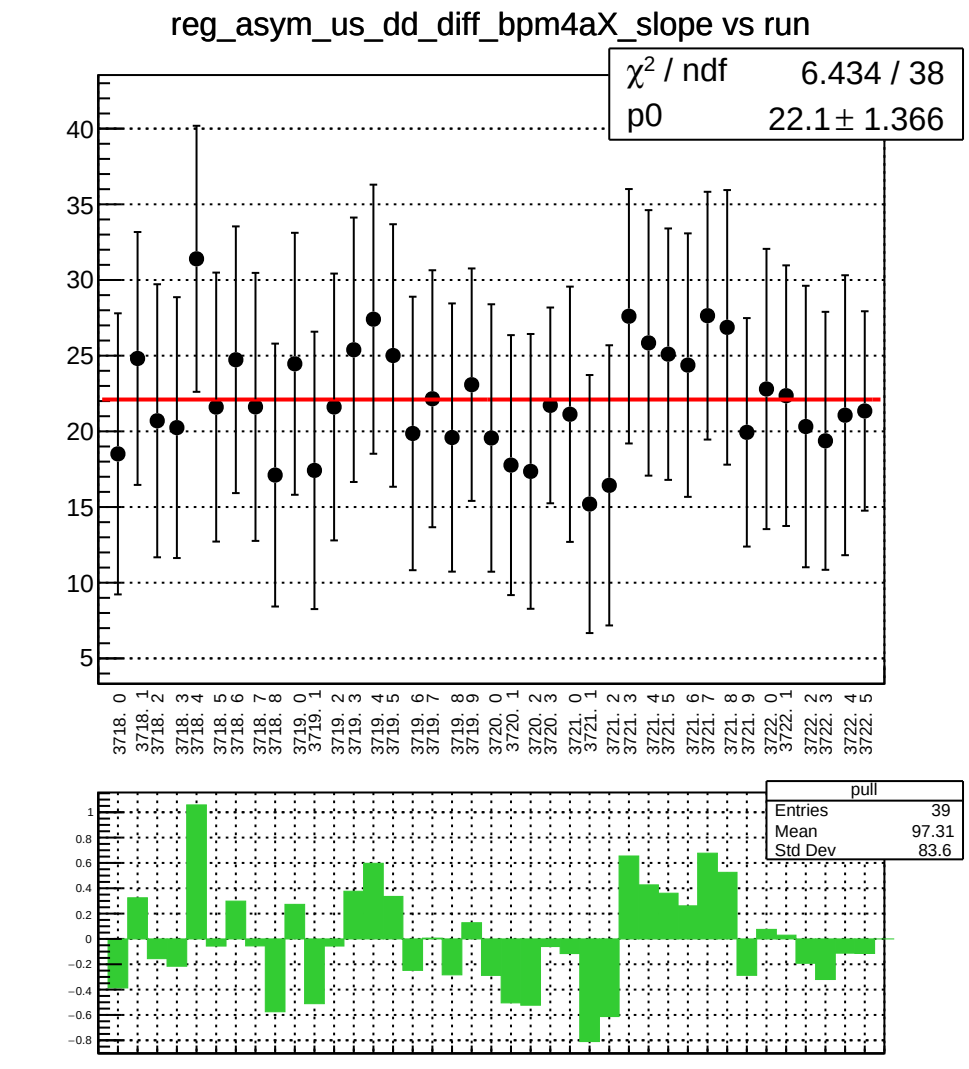

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 51.97 / 38
p0 −45.4 ± 0.2023
pull
Entries 39
Mean 129.9
Std Dev 94.78
pull1D
Entries 39
Mean −0.01567
Std Dev 1.154

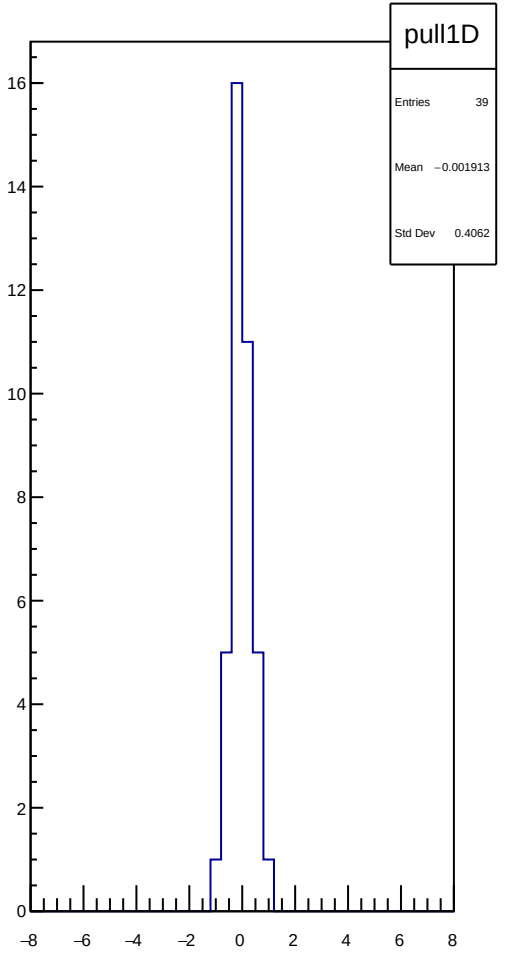

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.077 / 38
p0 12.88 ± 1.162
pull
Entries 39
Mean −12.36
Std Dev 40.1

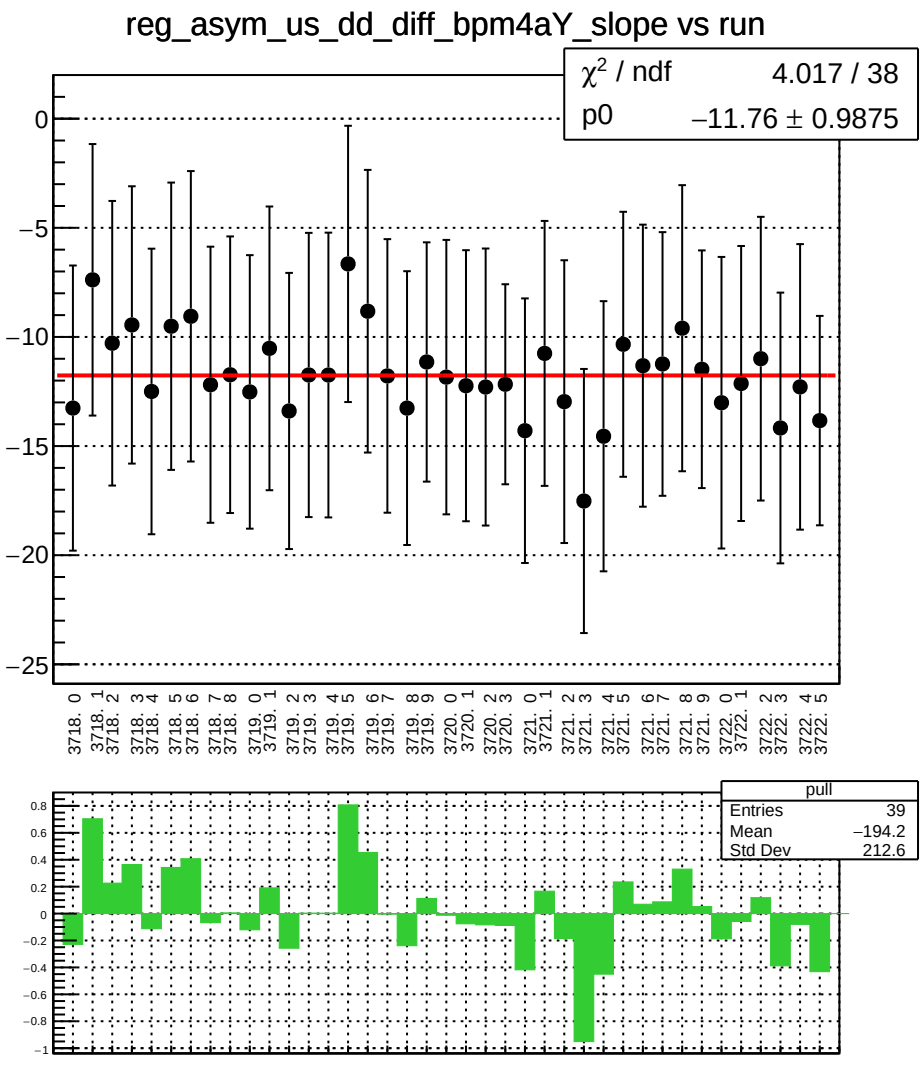

pull1D
Entries 39
Mean −0.002721
Std Dev 0.3608

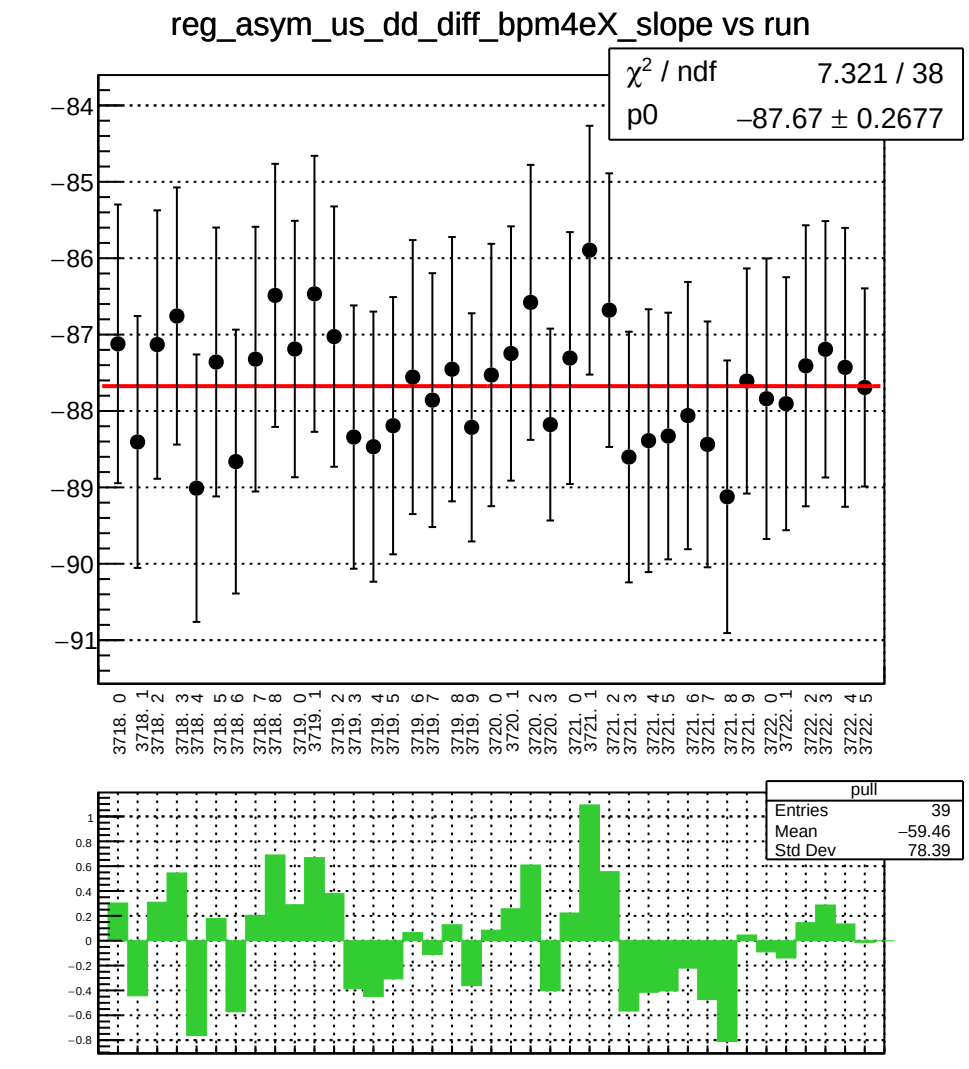

reg_asym_us_avg_diff_bpm11X_slope vs run
χ² / ndf 6.745 / 38
p0 −98.05 ± 0.1913
−96
−97
−98
−99
−100
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −79.43
Std Dev 98.27
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

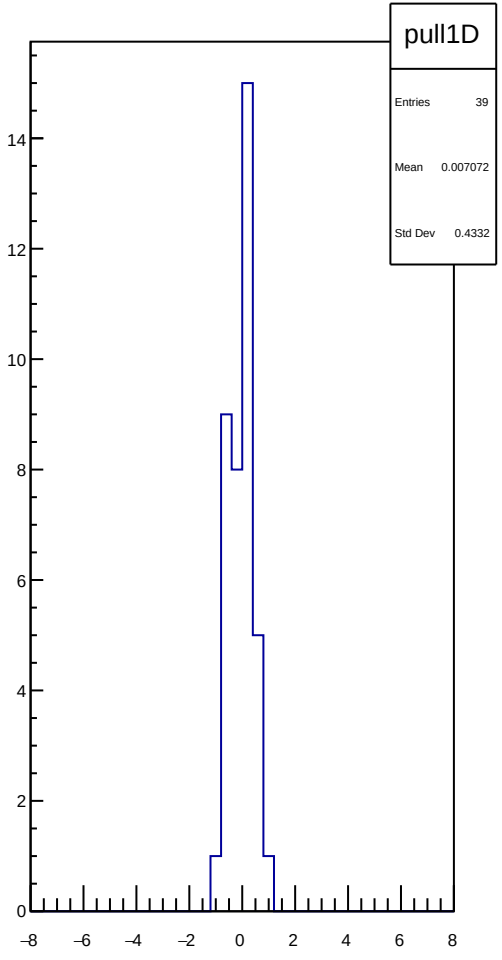

pull1D
Entries 39
Mean 0.01201
Std Dev 0.4157
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

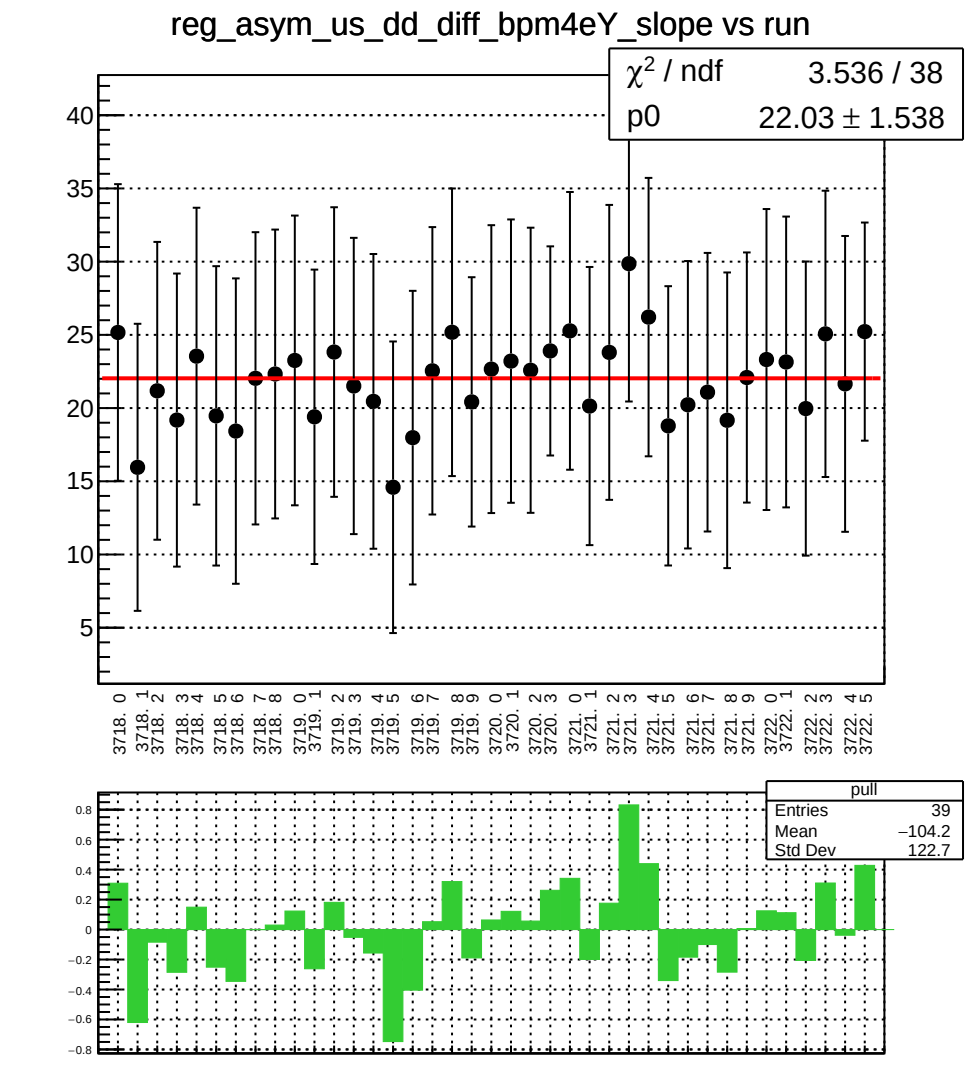

reg_asym_us_dd_diff_bpm4aX_slope vs run
χ² / ndf 6.434 / 38
p0 22.1 ± 1.366
pull
Entries 39
Mean 97.31
Std Dev 83.6

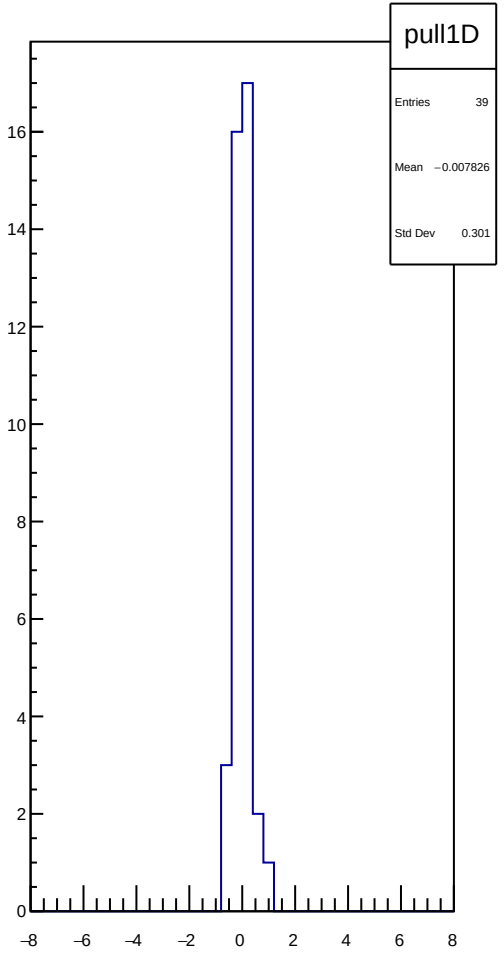

pull1D
Entries 39
Mean −0.001913
Std Dev 0.4062

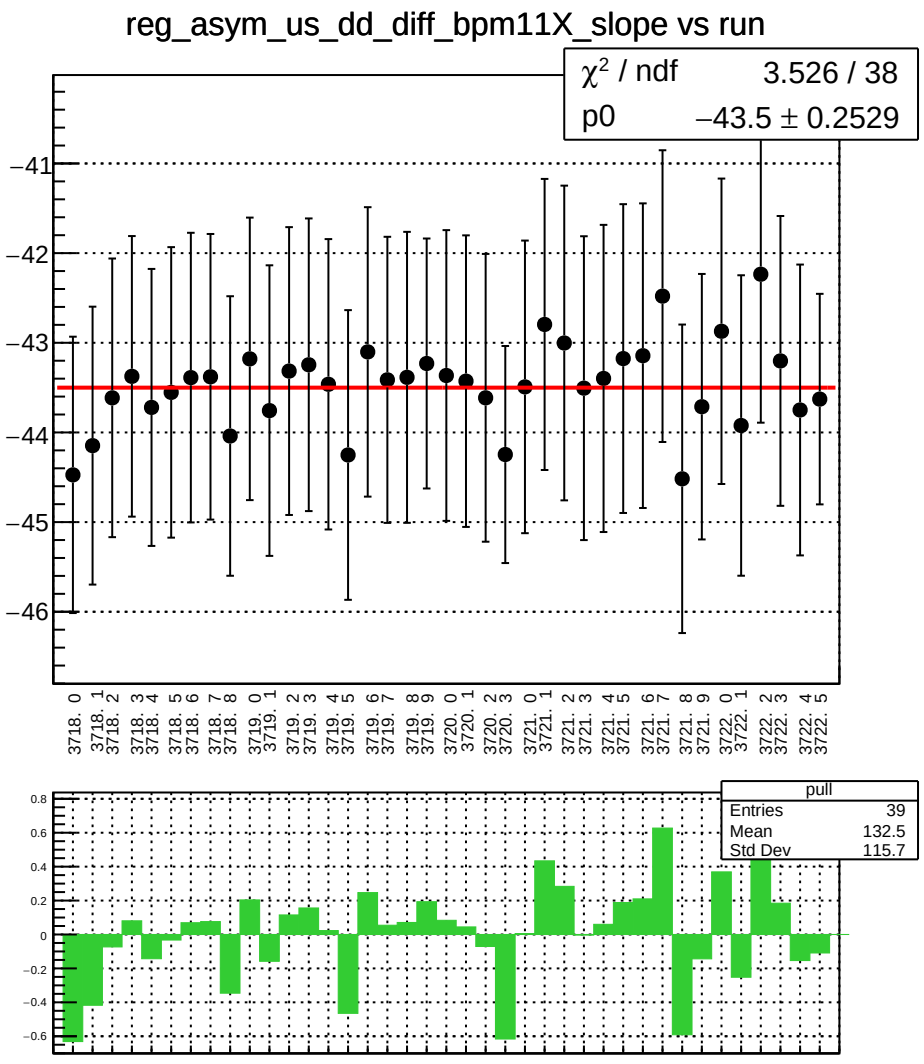

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.017 / 38
p0 −11.76 ± 0.9875
0
−5
−10
−15
−20
−25
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −194.2
Std Dev 212.6
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 39
Mean 0.006213
Std Dev 0.3209
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

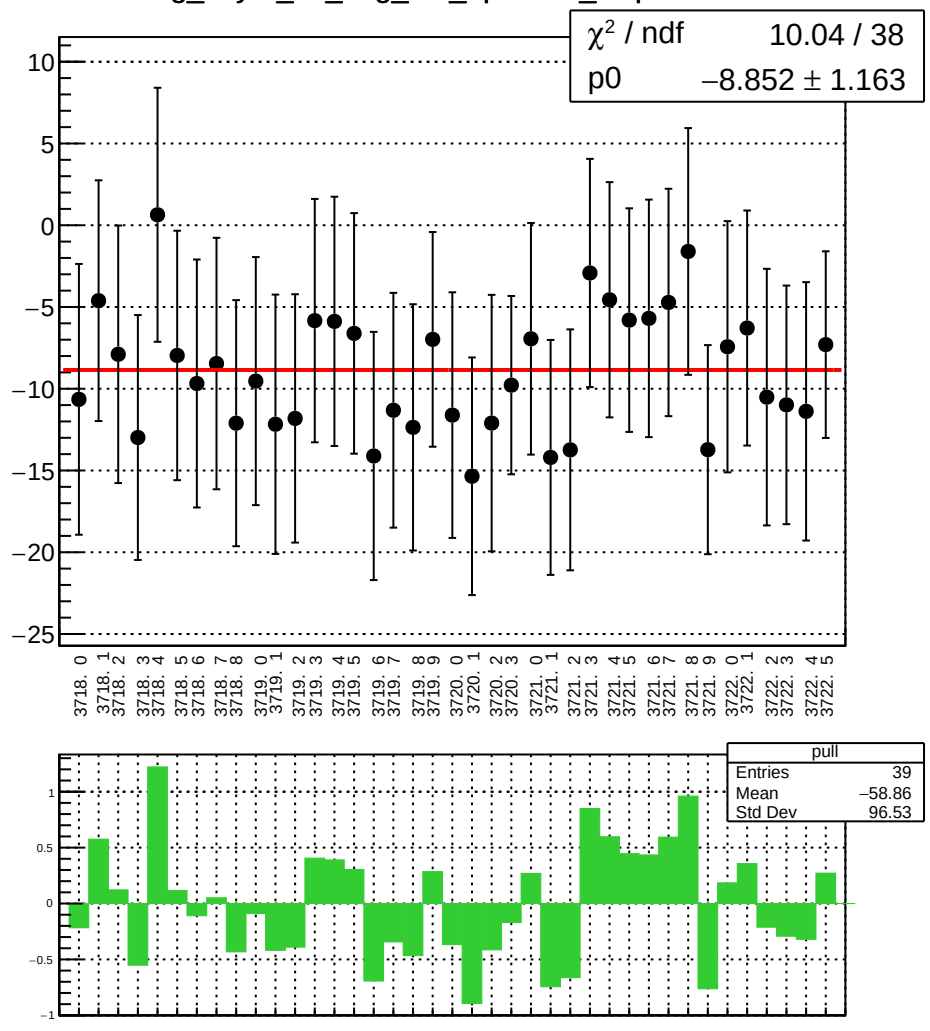

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.321 / 38
p0 −87.67 ± 0.2677
pull
Entries 39
Mean −59.46
Std Dev 78.39

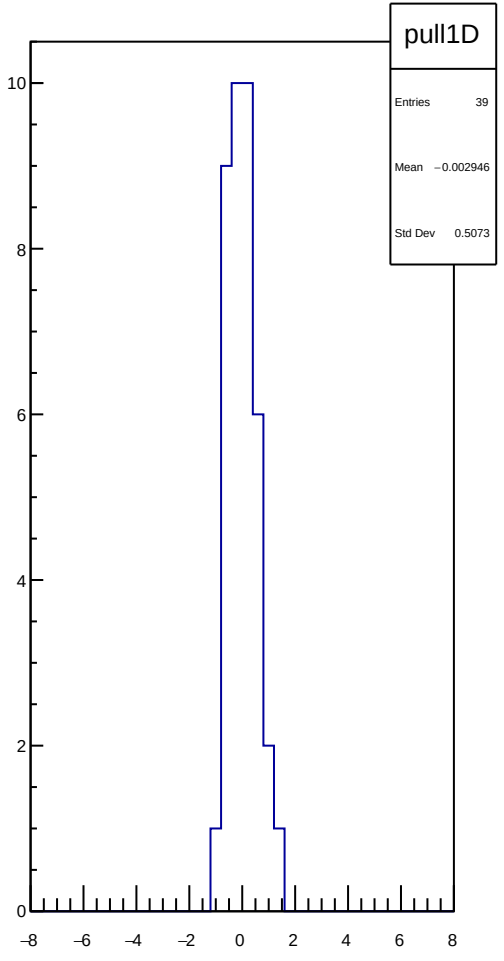

pull1D
Entries 39
Mean 0.007072
Std Dev 0.4332

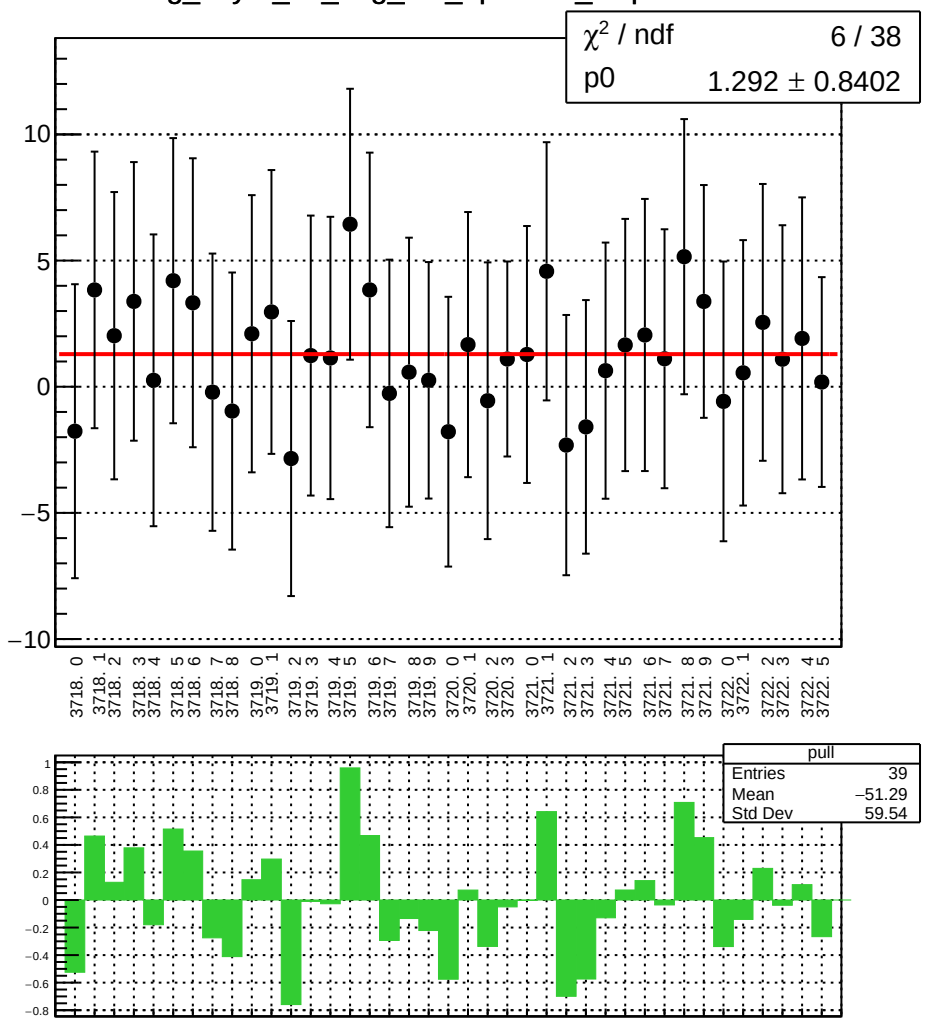

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.536 / 38
p0 22.03 ± 1.538
pull
Entries 39
Mean −104.2
Std Dev 122.7

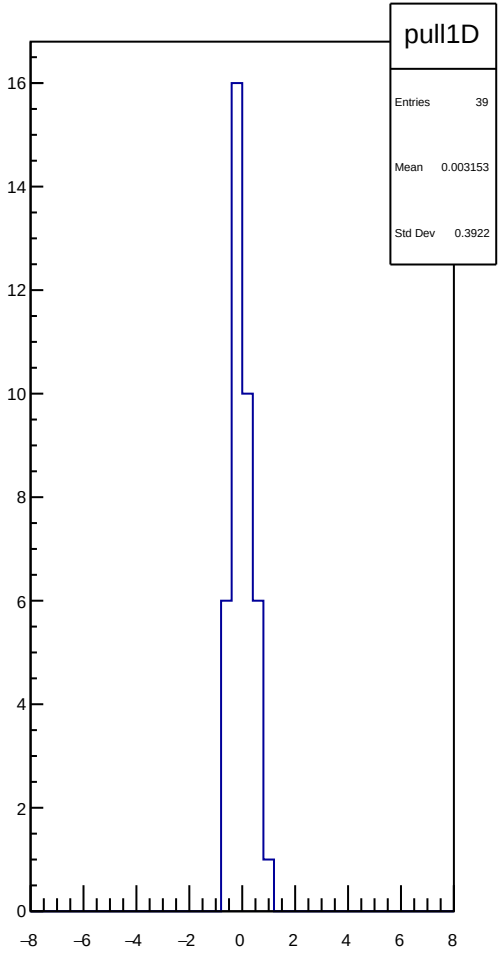

pull1D
Entries 39
Mean −0.007826
Std Dev 0.301

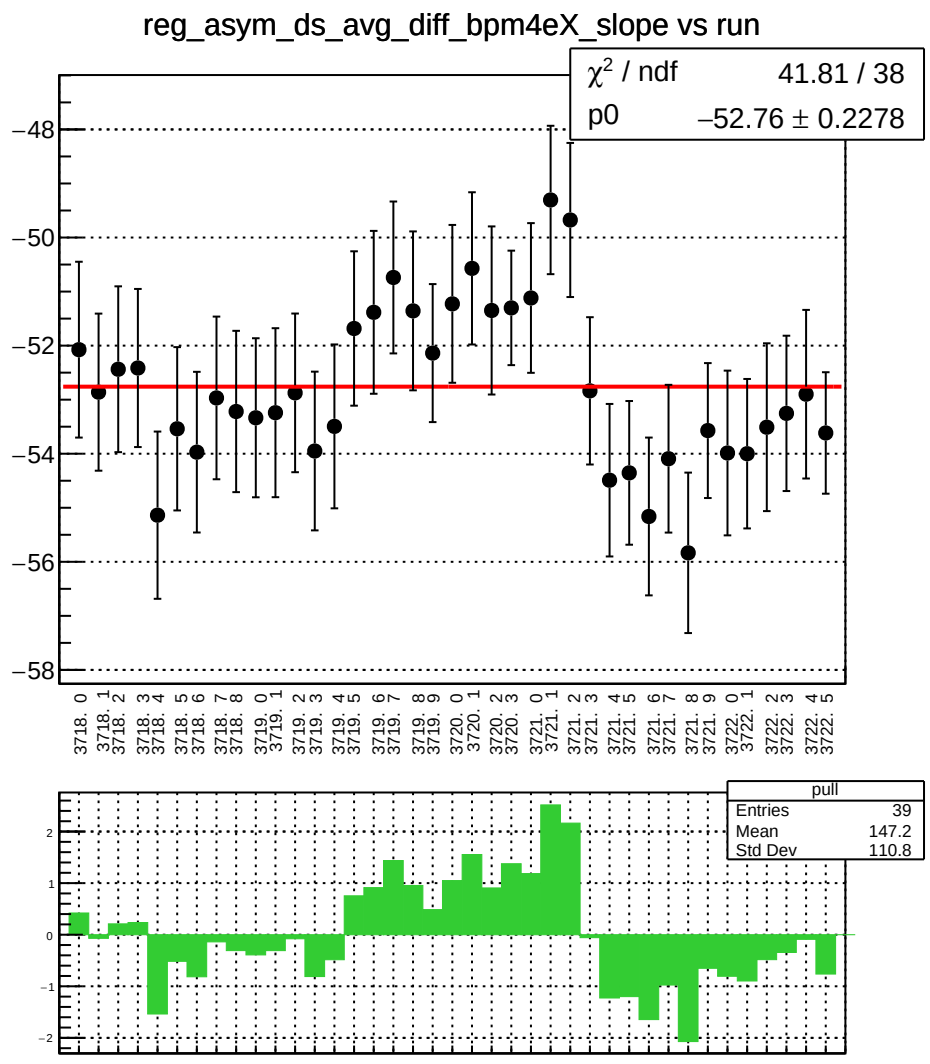

reg_asym_us_dd_diff_bpm11X_slope vs run
χ² / ndf 3.526 / 38
p0 −43.5 ± 0.2529
−41
−42
−43
−44
−45
−46
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 132.5
Std Dev 115.7
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 39
Mean 0.008663
Std Dev 0.3005
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

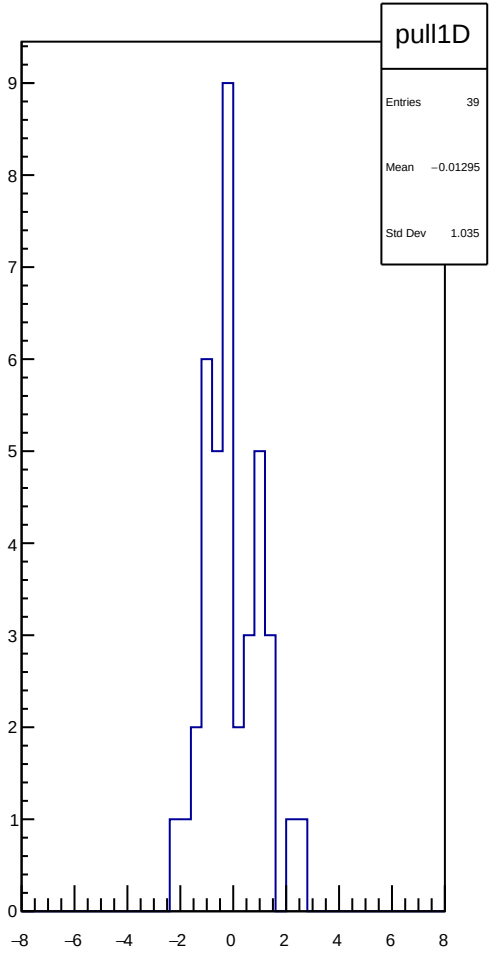

reg_asym_ds_avg_diff_bpm4aX_slope vs run
χ² / ndf 10.04 / 38
p0 −8.852 ± 1.163
pull
Entries 39
Mean −58.86
Std Dev 96.53

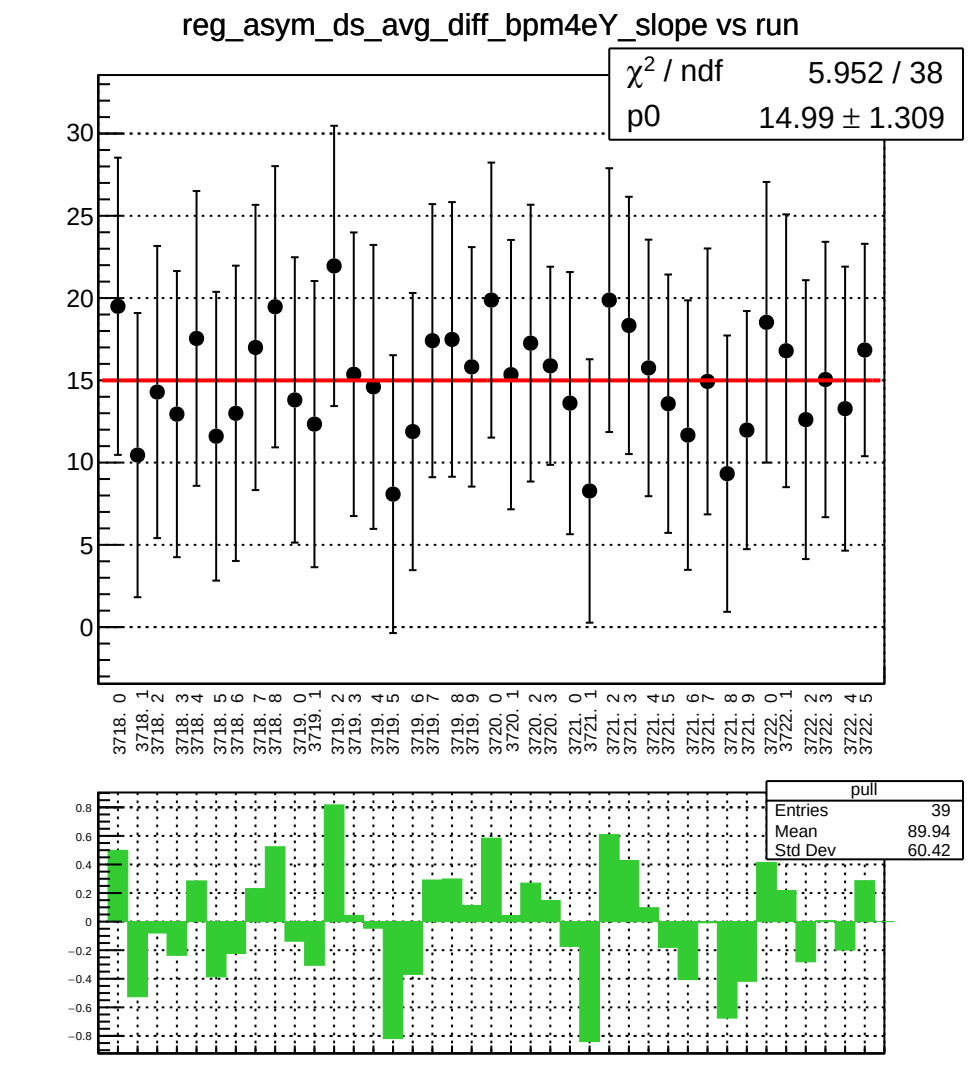

pull1D
Entries 39
Mean −0.002946
Std Dev 0.5073

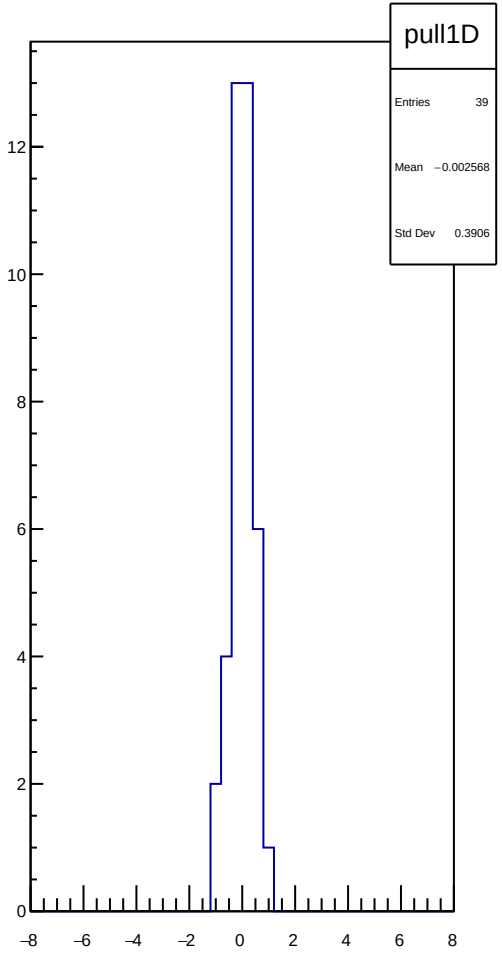

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 6 / 38
p0 1.292 ± 0.8402
pull
Entries 39
Mean −51.29
Std Dev 59.54

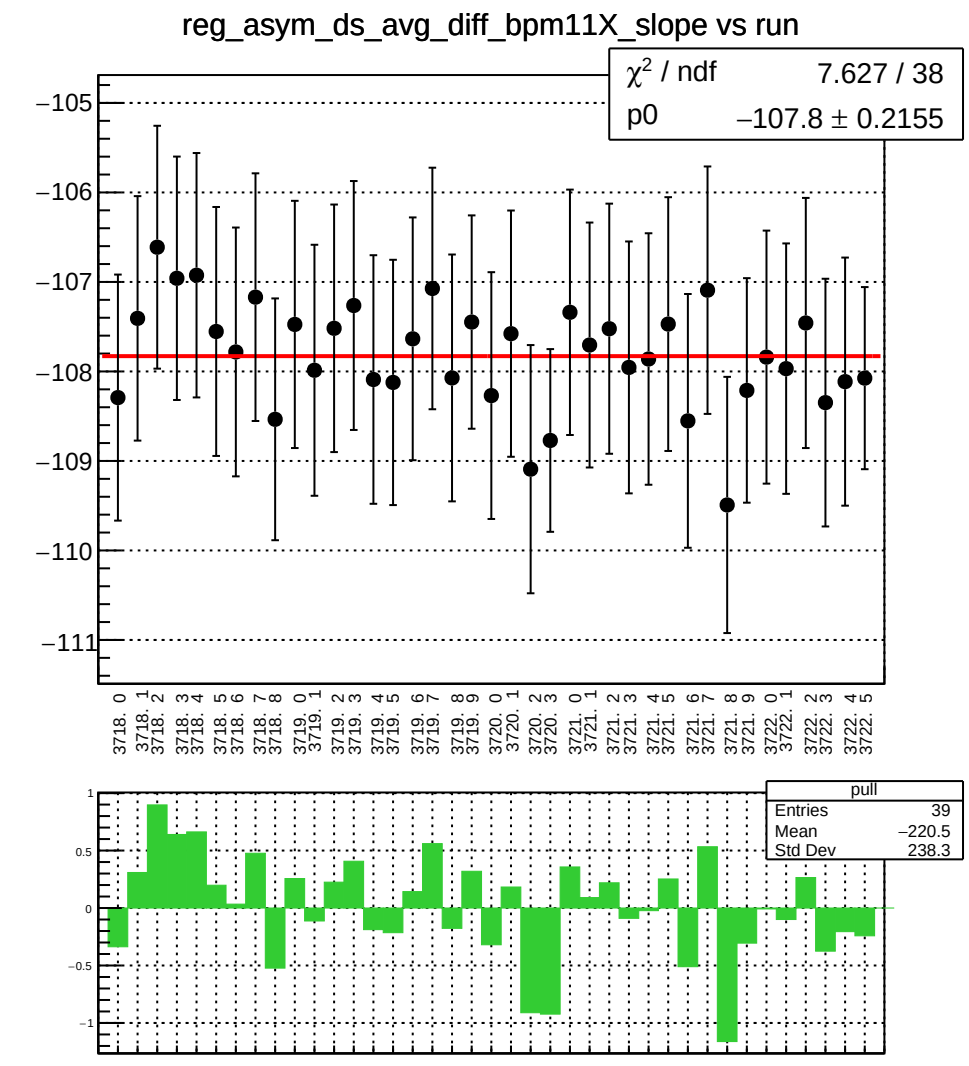

pull1D
Entries 39
Mean 0.003153
Std Dev 0.3922

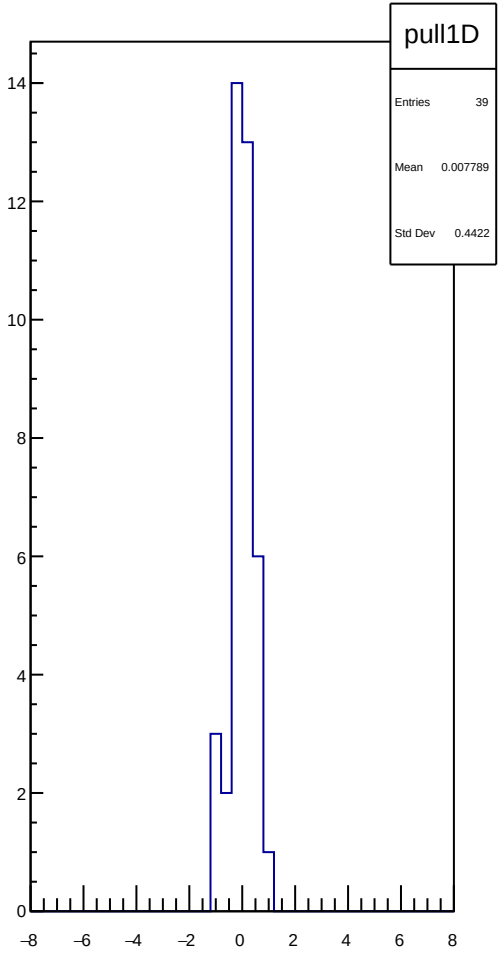

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 41.81 / 38
p0 −52.76 ± 0.2278
pull
Entries 39
Mean 147.2
Std Dev 110.8

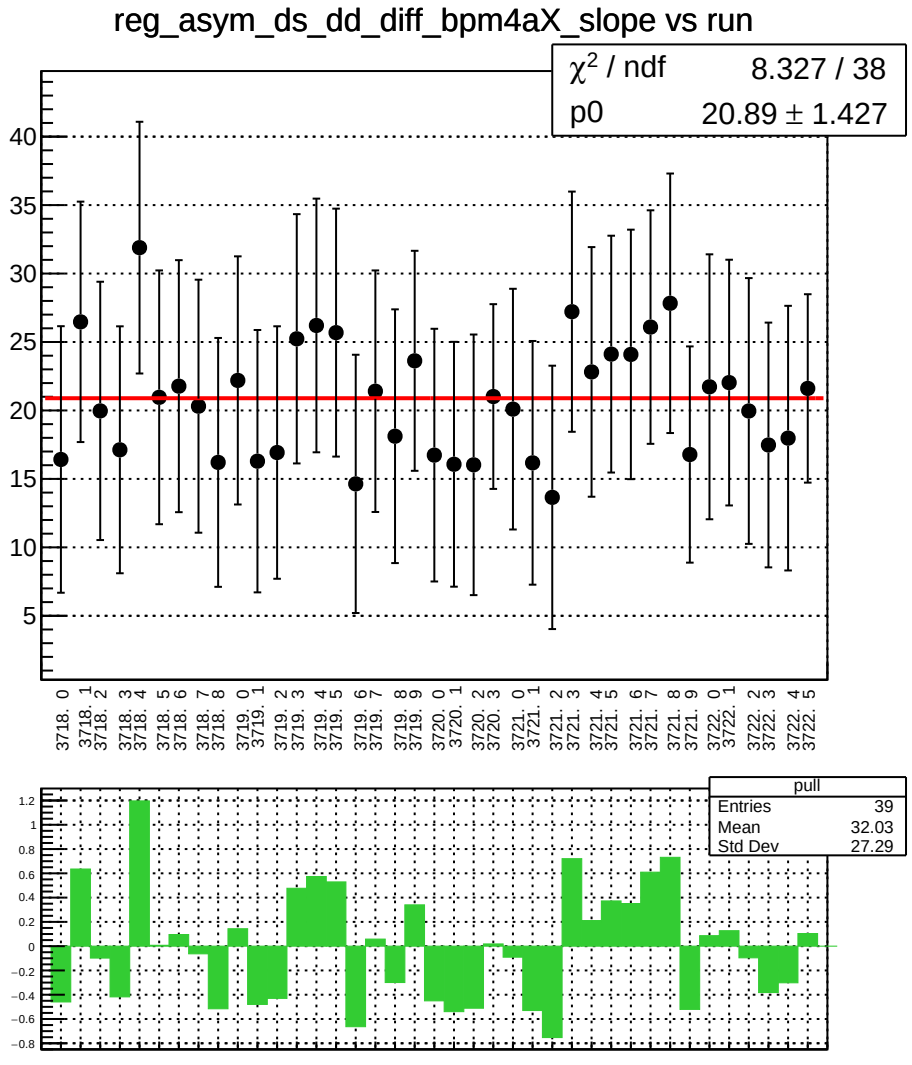

pull1D
Entries 39
Mean −0.01295
Std Dev 1.035

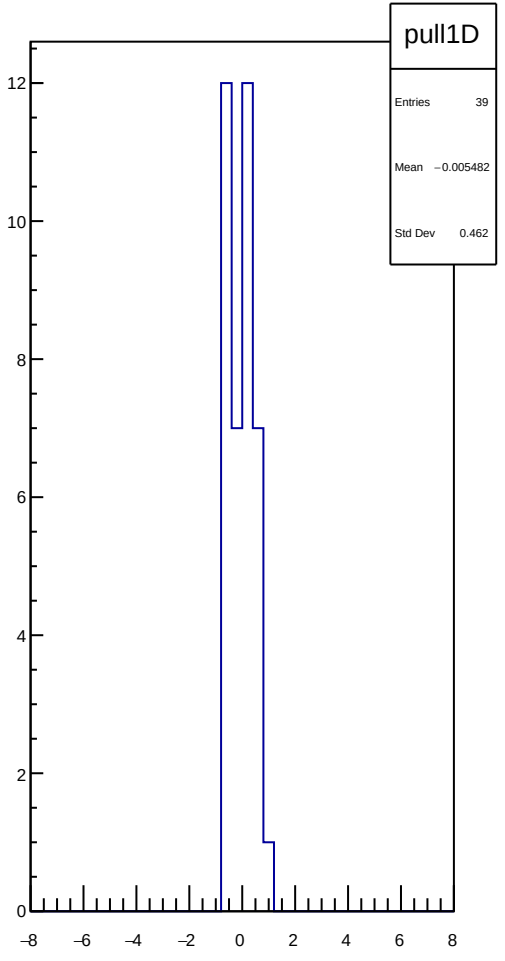

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.952 / 38
p0 14.99 ± 1.309
pull
Entries 39
Mean 89.94
Std Dev 60.42

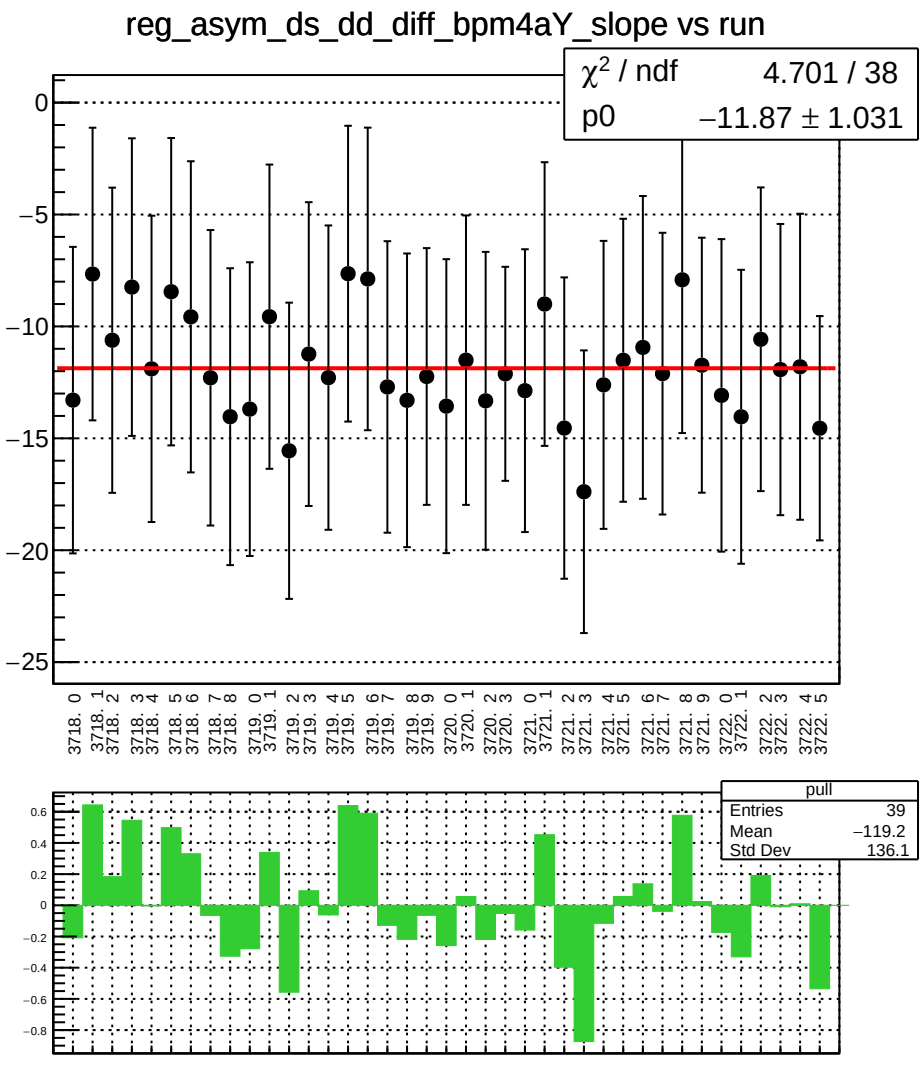

pull1D
Entries 39
Mean −0.002568
Std Dev 0.3906

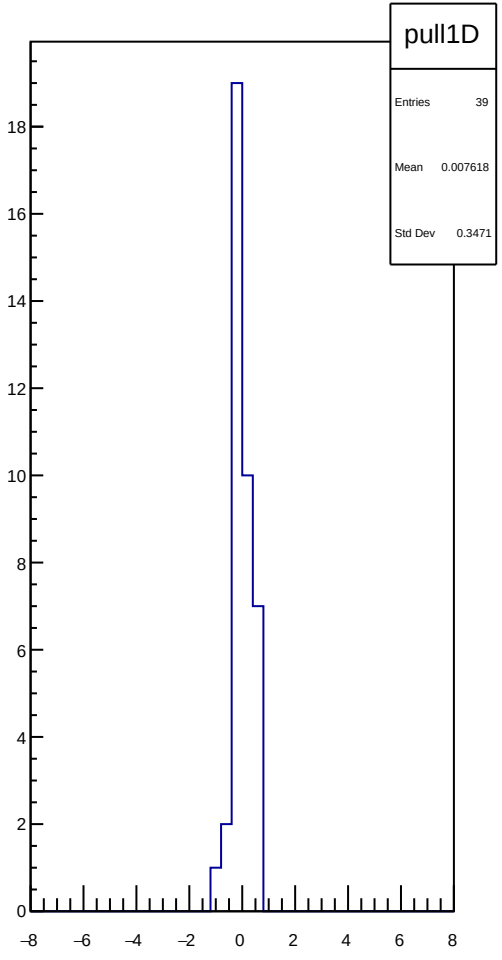

reg_asym_ds_avg_diff_bpm11X_slope vs run
χ² / ndf 7.627 / 38
p0 −107.8 ± 0.2155
pull
Entries 39
Mean −220.5
Std Dev 238.3

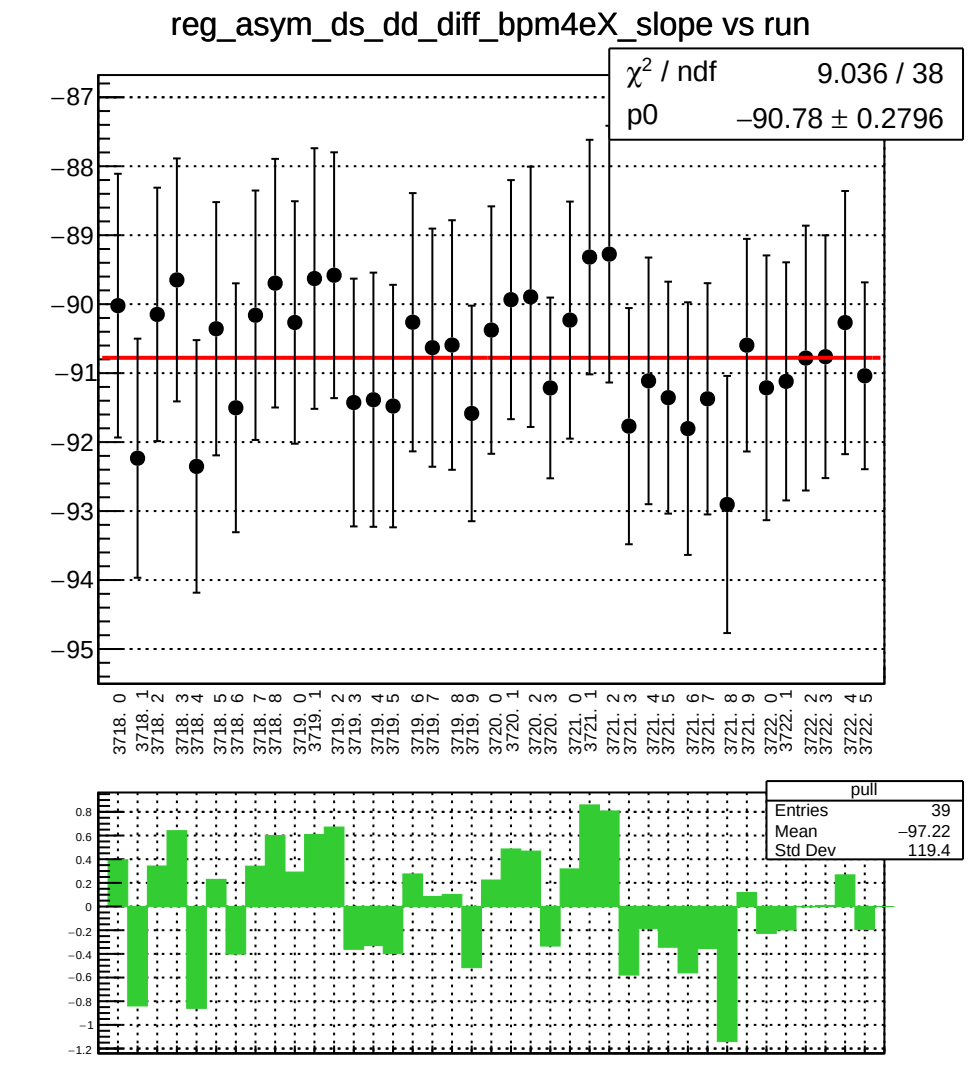

pull1D
Entries 39
Mean 0.007789
Std Dev 0.4422

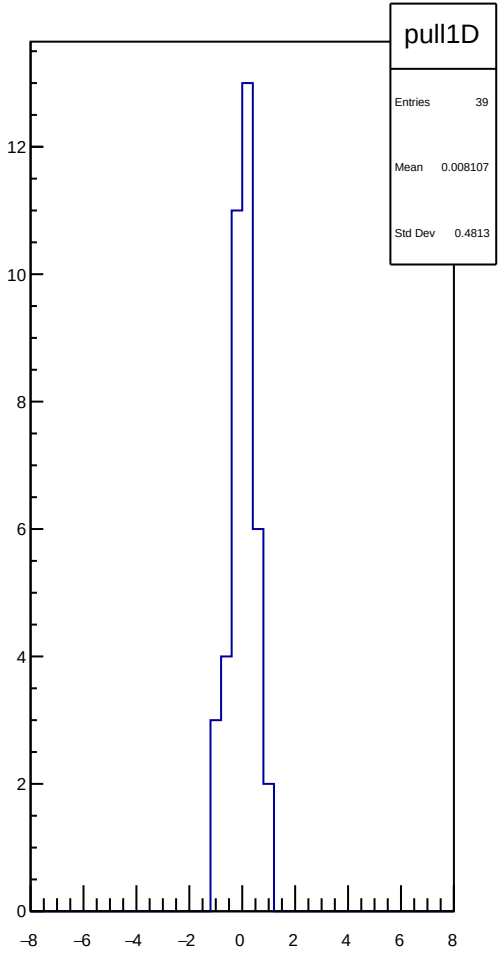

reg_asym_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 8.327 / 38
p0 20.89 ± 1.427
pull
Entries 39
Mean 32.03
Std Dev 27.29

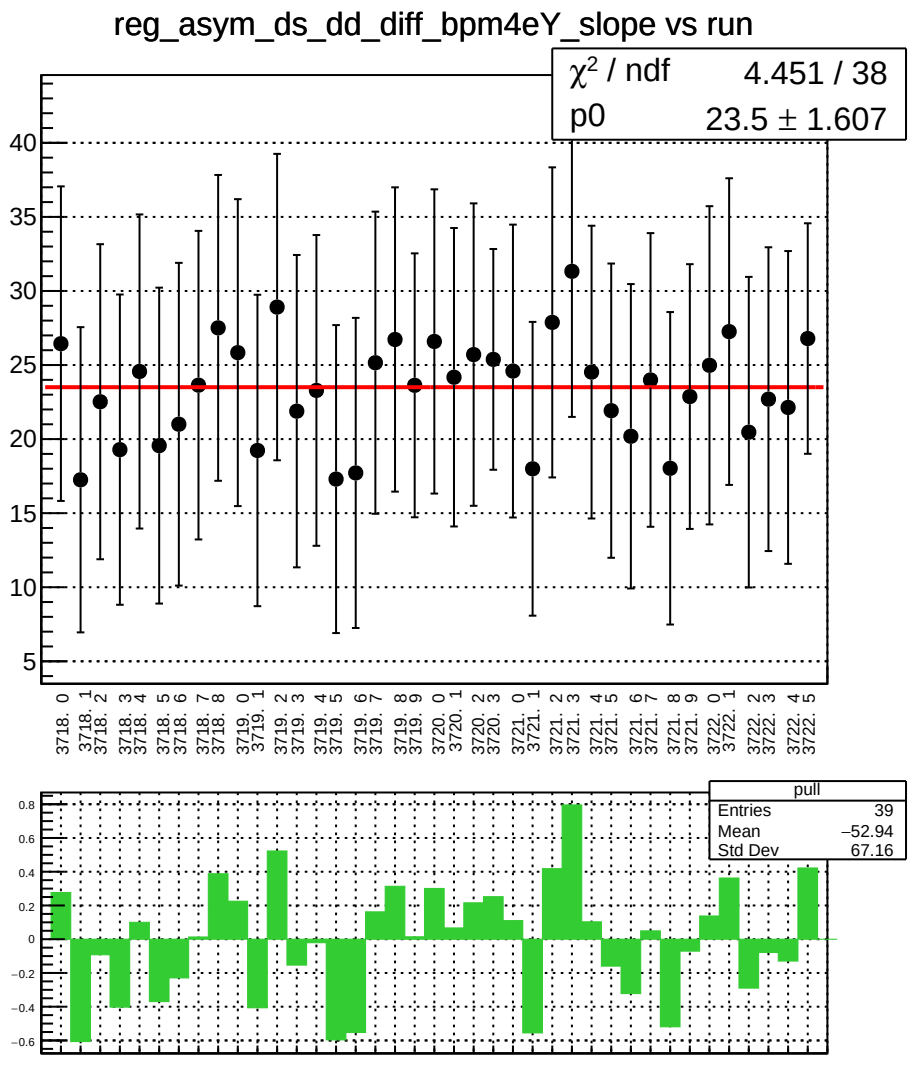

pull1D
Entries 39
Mean −0.005482
Std Dev 0.462

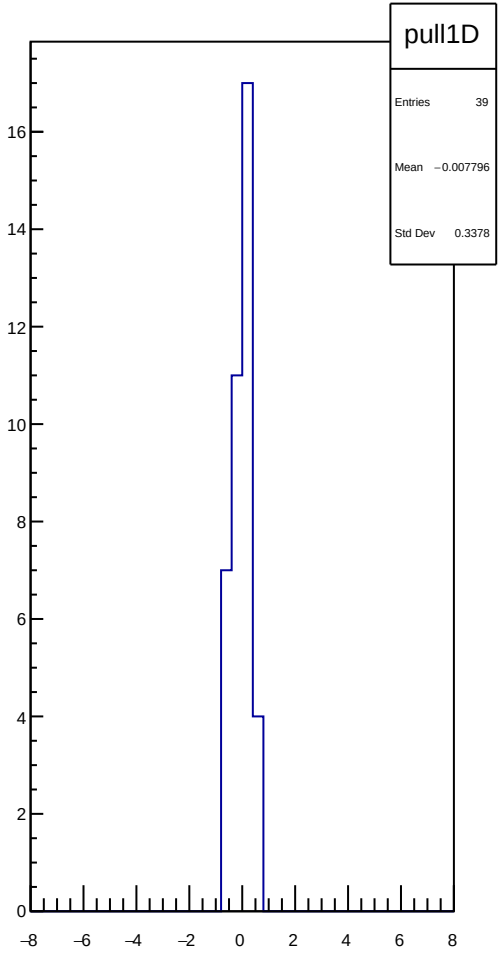

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.701 / 38
p0 −11.87 ± 1.031
0
−5
−10
−15
−20
−25
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −119.2
Std Dev 136.1
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

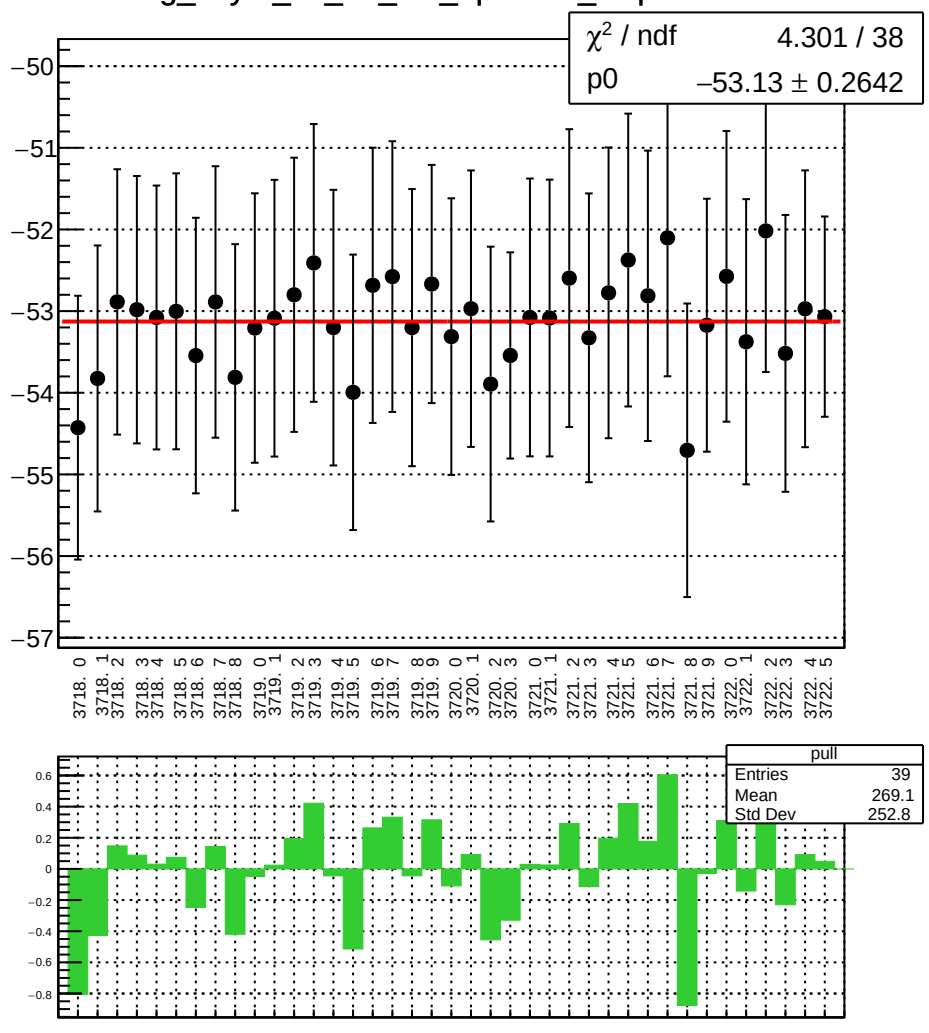

pull1D
Entries 39
Mean 0.007618
Std Dev 0.3471
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

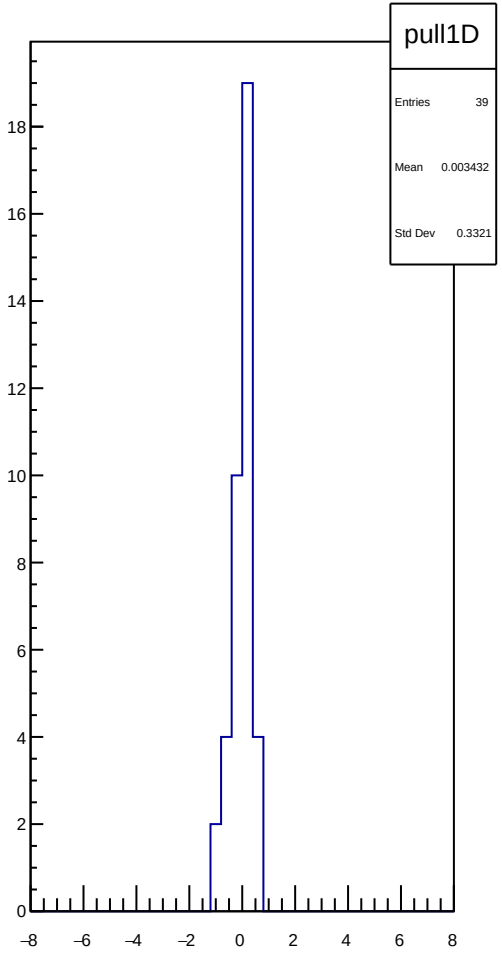

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.036 / 38
p0 −90.78 ± 0.2796
pull
Entries 39
Mean −97.22
Std Dev 119.4

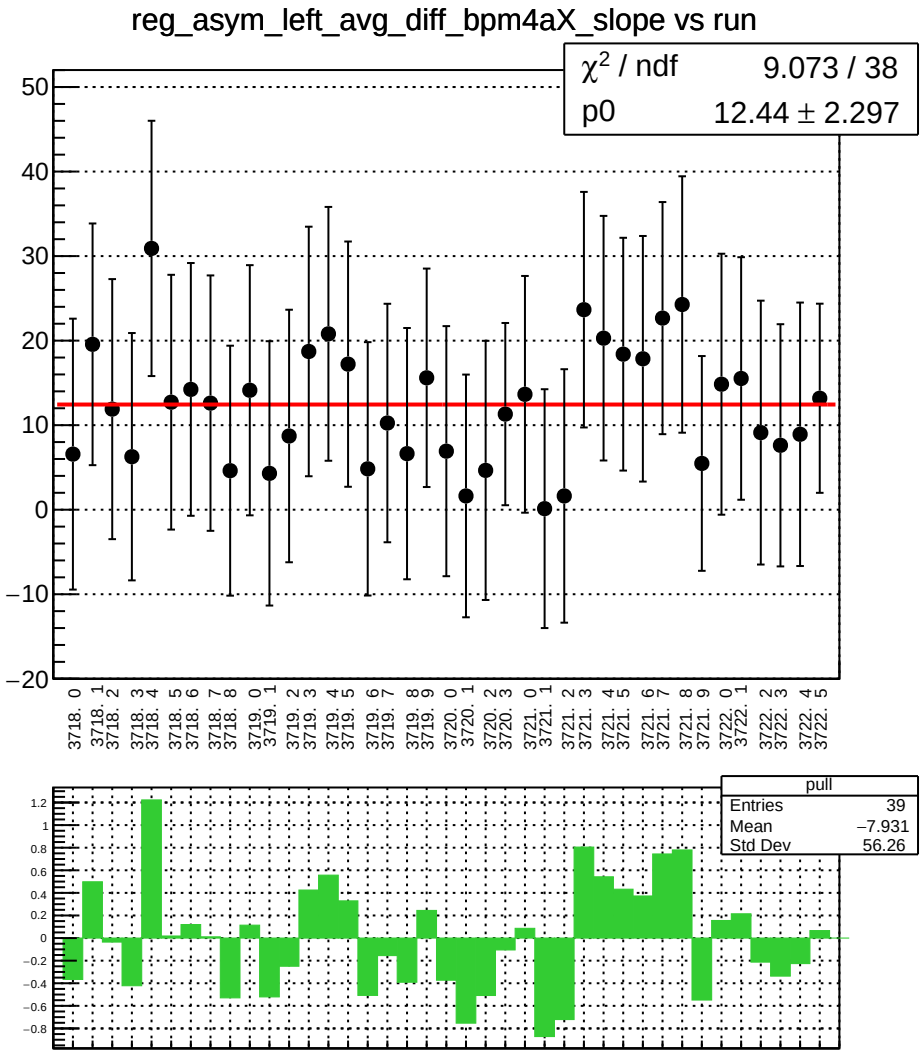

pull1D
Entries 39
Mean 0.008107
Std Dev 0.4813

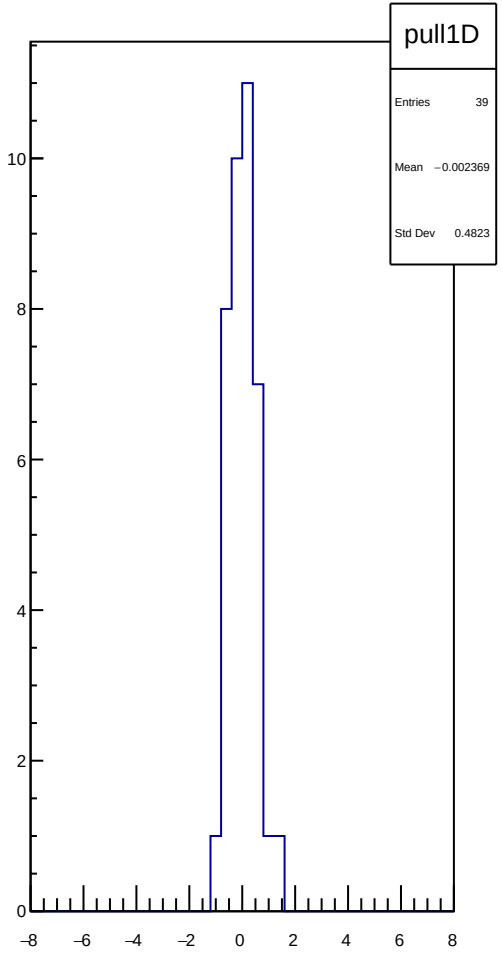

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.451 / 38
p0 23.5 ± 1.607
pull
Entries 39
Mean −52.94
Std Dev 67.16

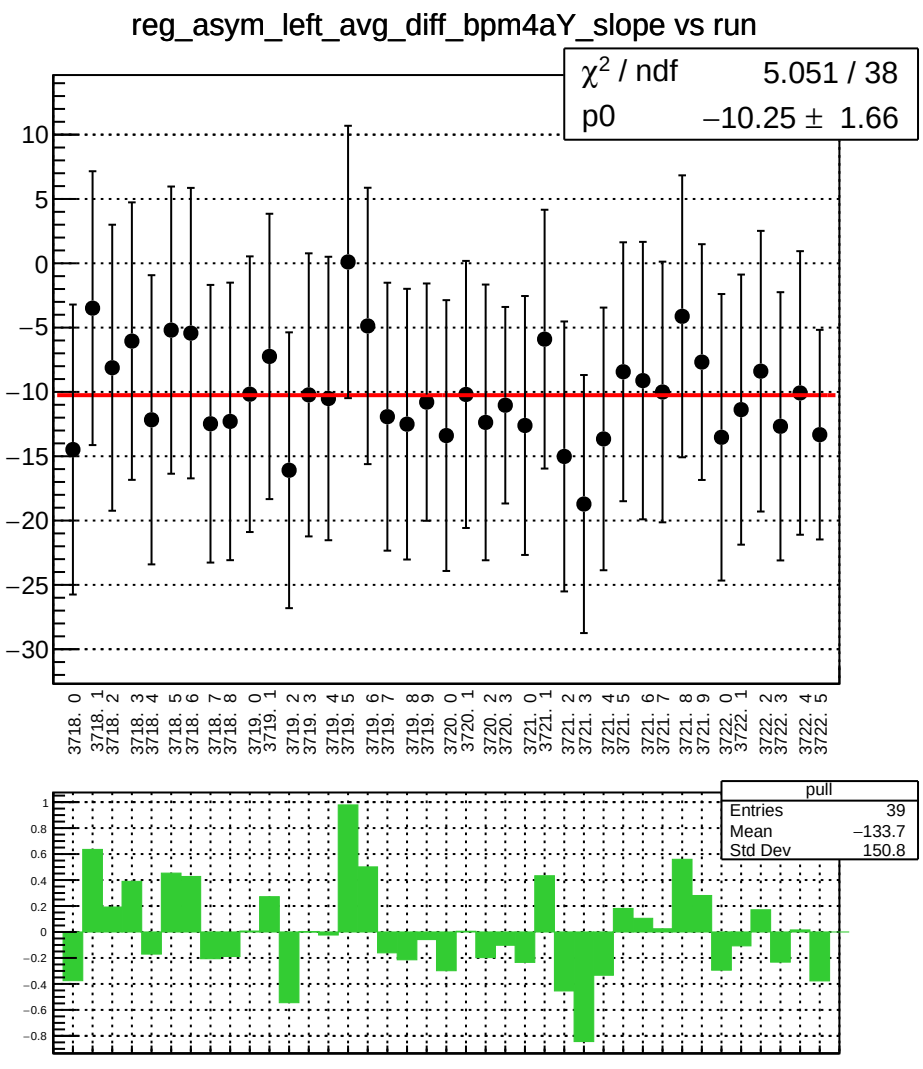

pull1D
Entries 39
Mean −0.007796
Std Dev 0.3378

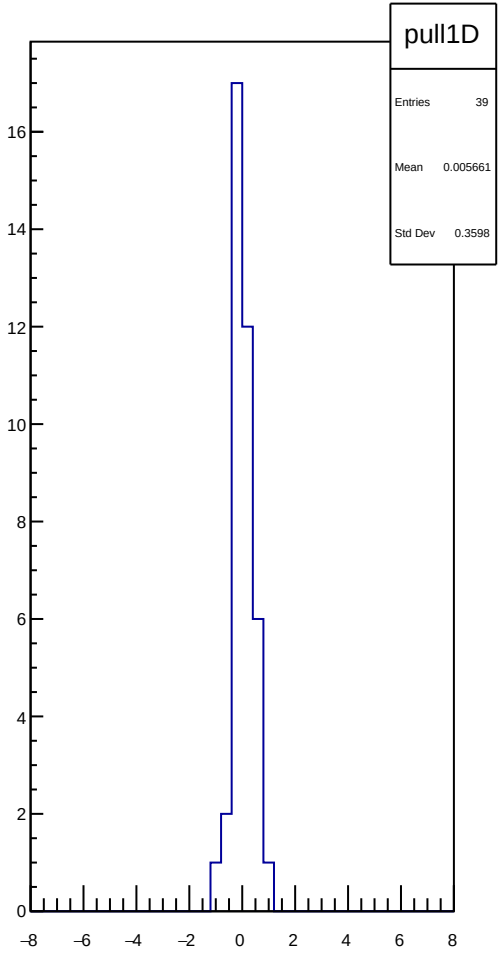

reg_asym_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 4.301 / 38
p0 −53.13 ± 0.2642
pull
Entries 39
Mean 269.1
Std Dev 252.8

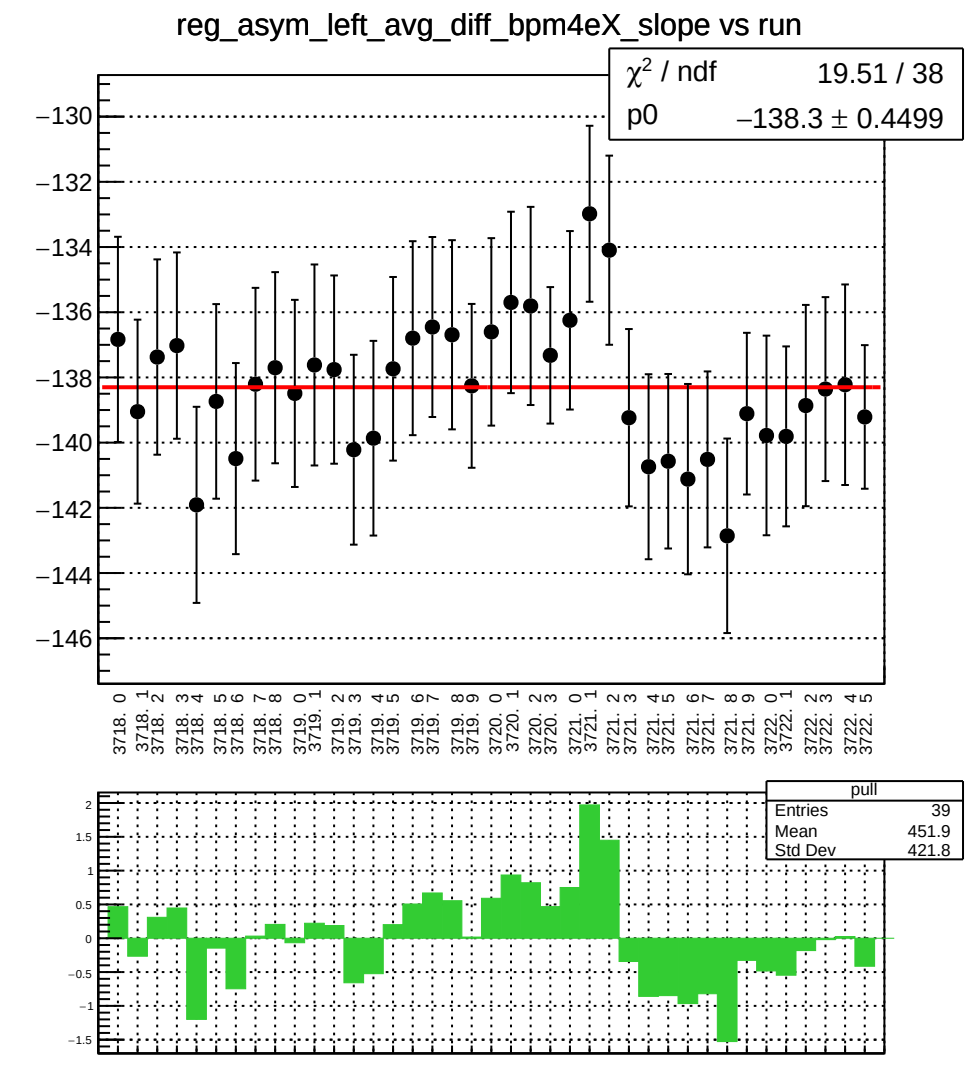

pull1D
Entries 39
Mean 0.003432
Std Dev 0.3321

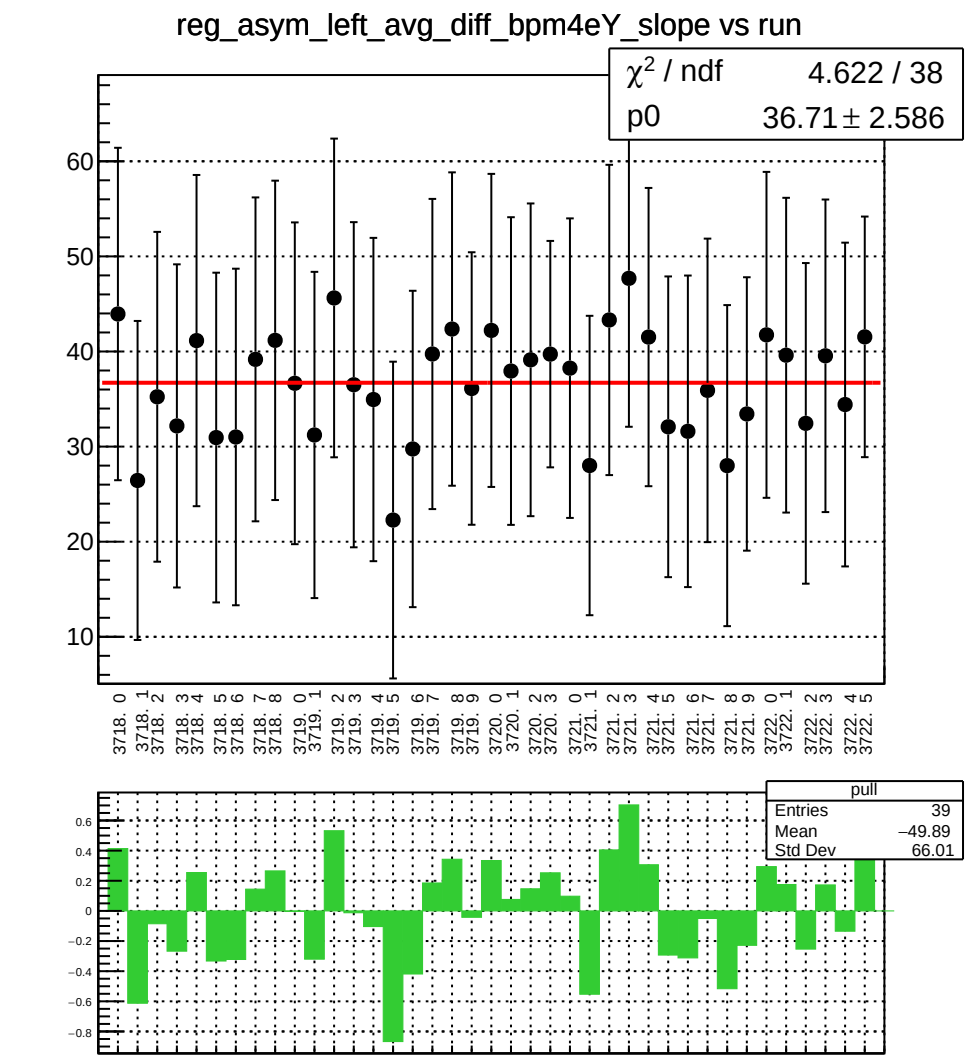

reg_asym_left_avg_diff_bpm4aX_slope vs run
χ² / ndf 9.073 / 38
p0 12.44 ± 2.297
pull
Entries 39
Mean −7.931
Std Dev 56.26

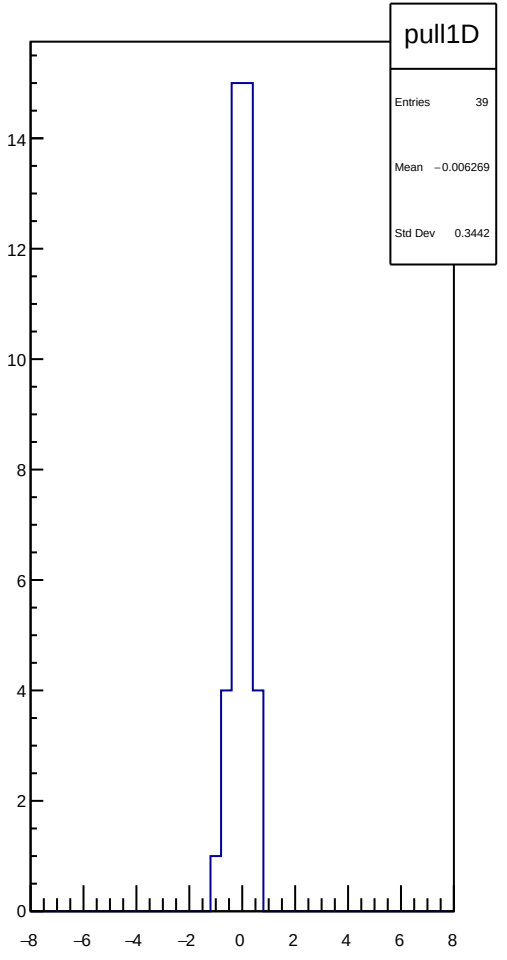

pull1D
Entries 39
Mean −0.002369
Std Dev 0.4823

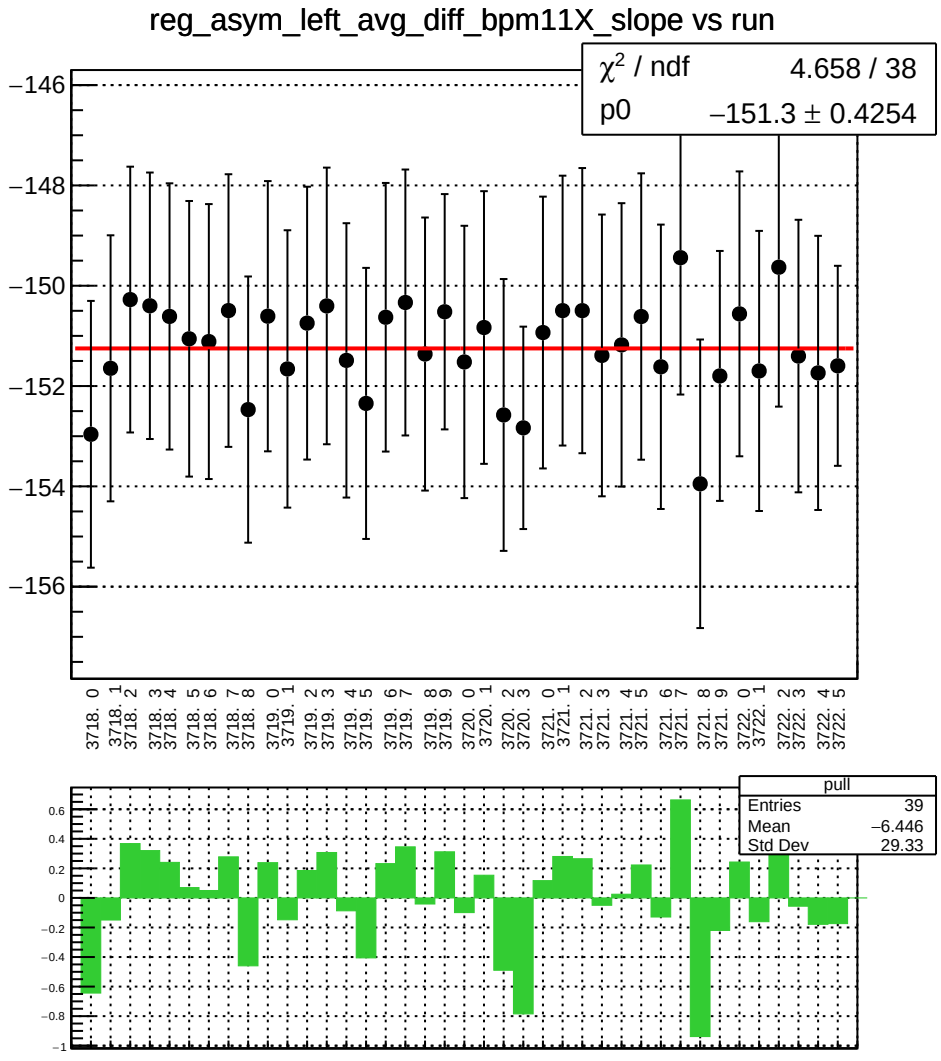

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.051 / 38
p0 −10.25 ± 1.66
pull
Entries 39
Mean −133.7
Std Dev 150.8

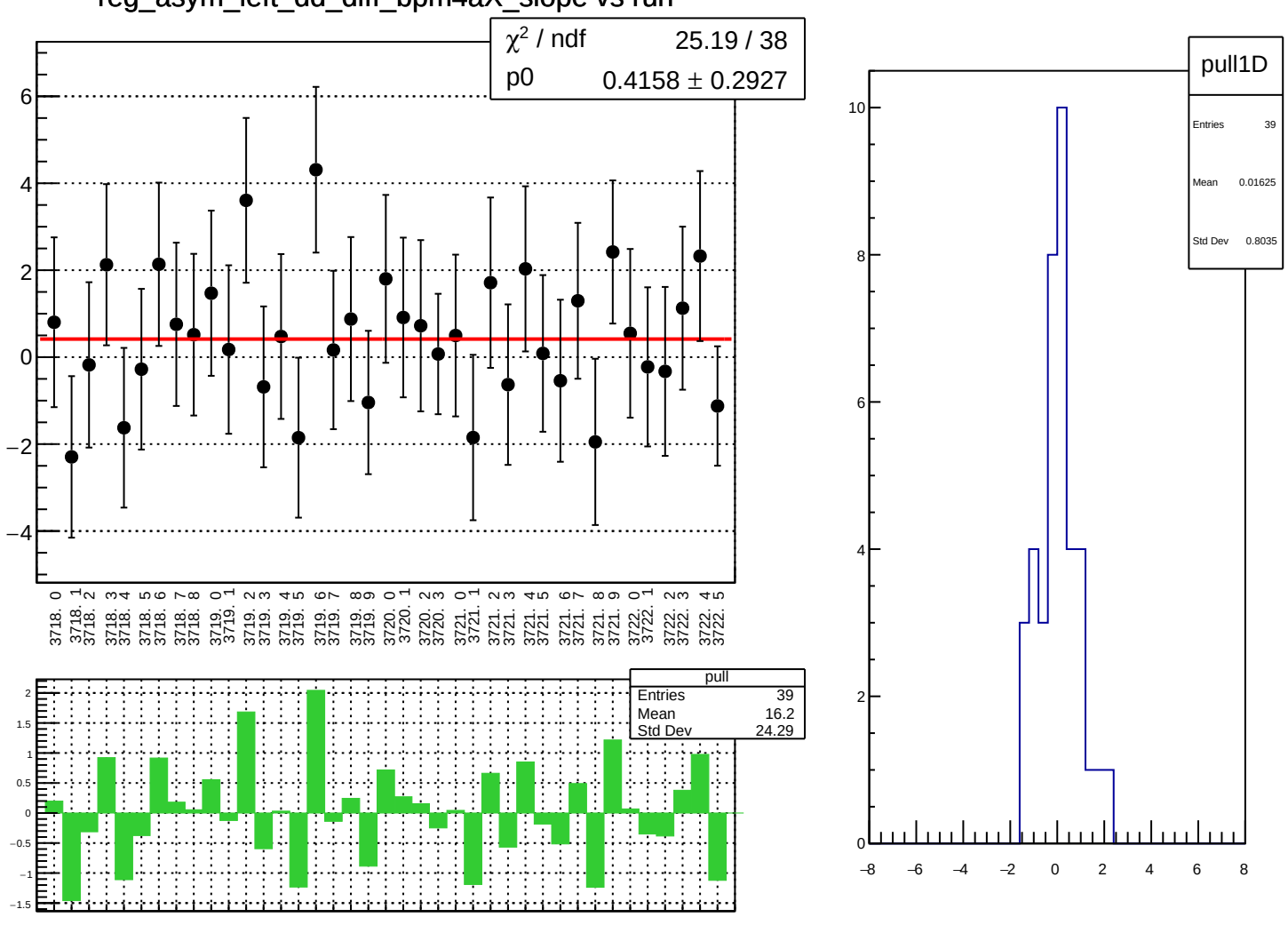

pull1D
Entries 39
Mean 0.005661
Std Dev 0.3598

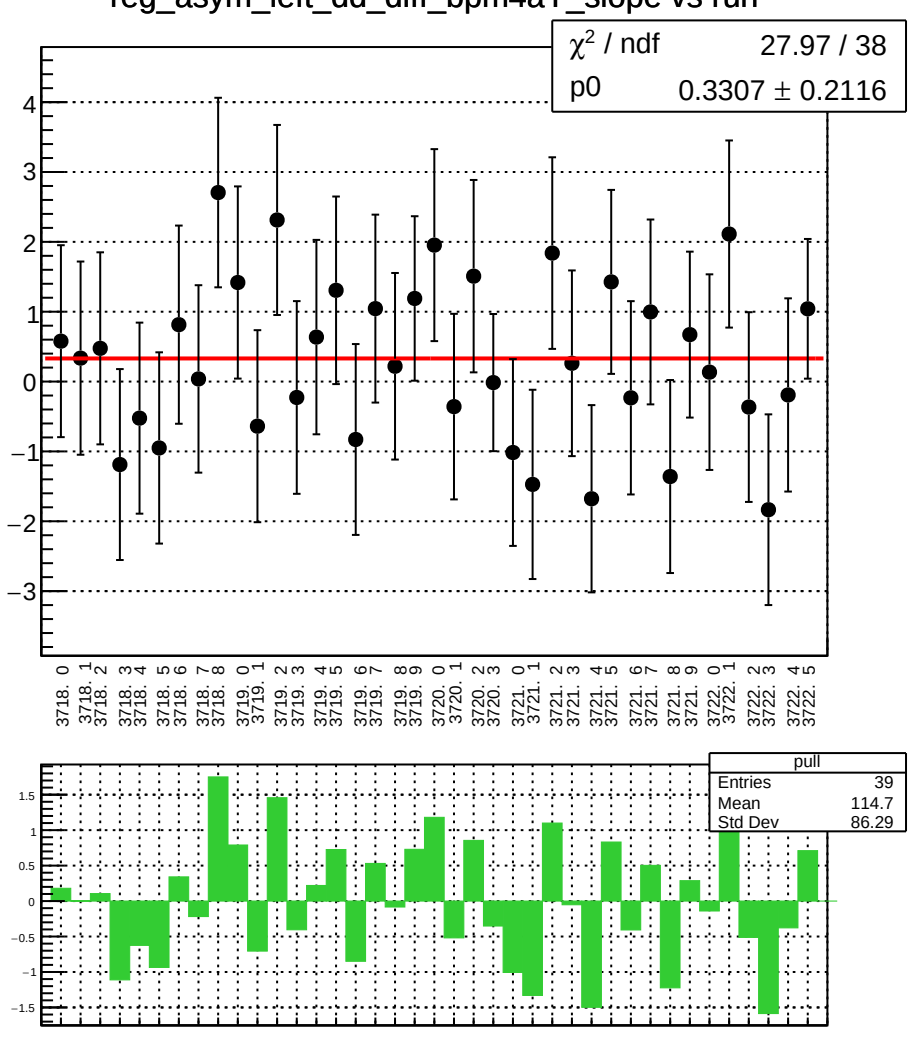

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 19.51 / 38
p0 −138.3 ± 0.4499
−130
−132
−134
−136
−138
−140
−142
−144
−146
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 451.9
Std Dev 421.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.002899
Std Dev 0.7074
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

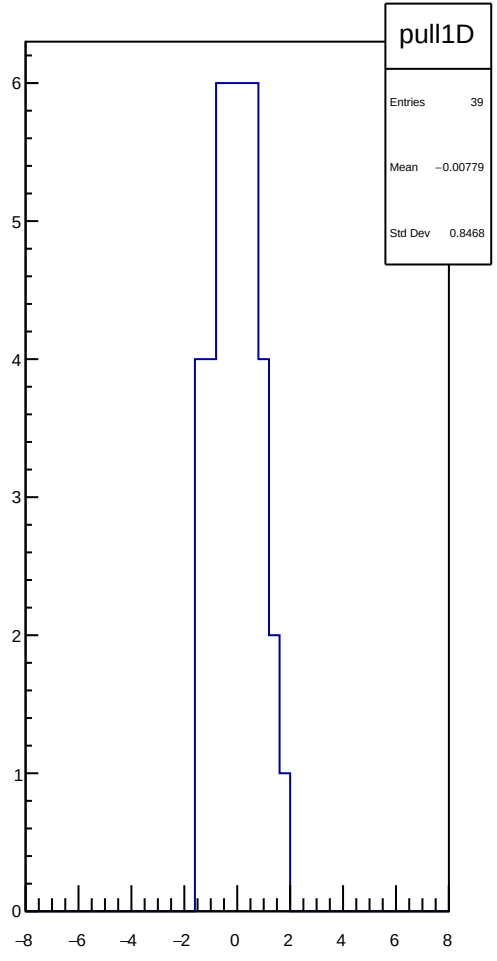

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.622 / 38
p0 36.71 ± 2.586
60
50
40
30
20
10
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −49.89
Std Dev 66.01
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

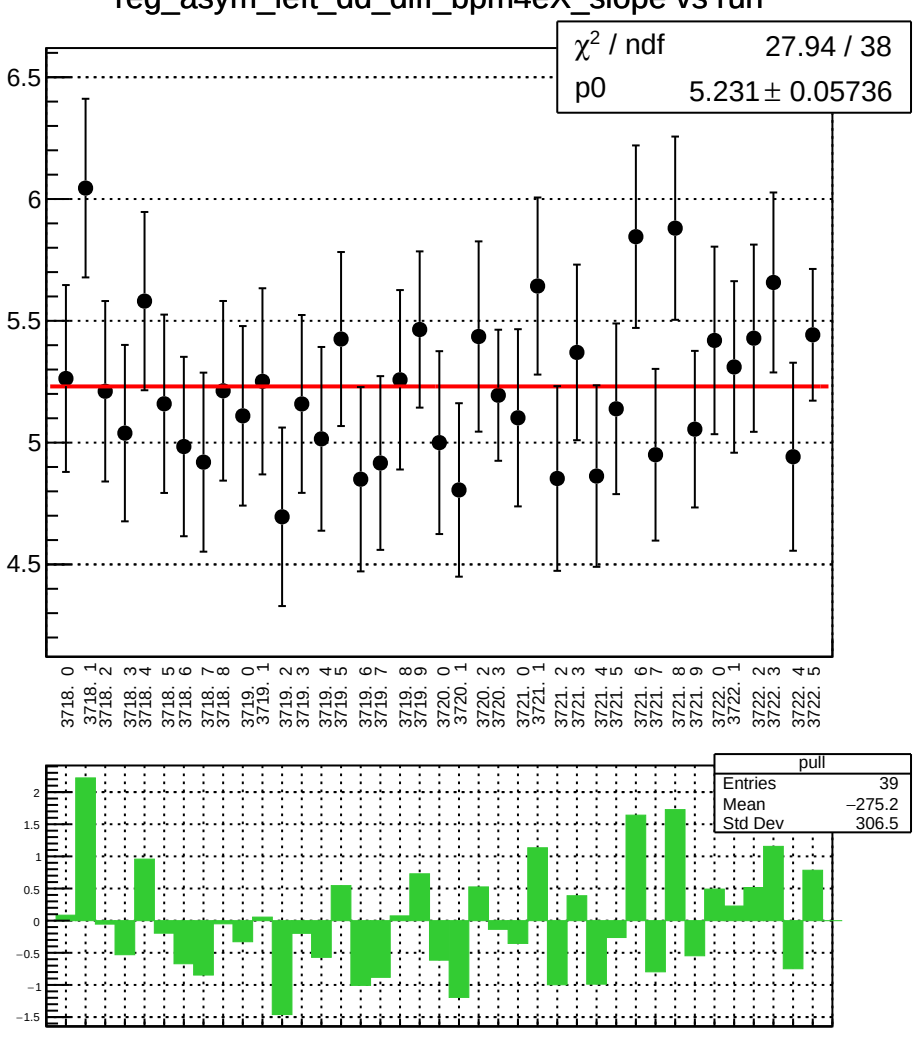

pull1D
Entries 39
Mean −0.006269
Std Dev 0.3442
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

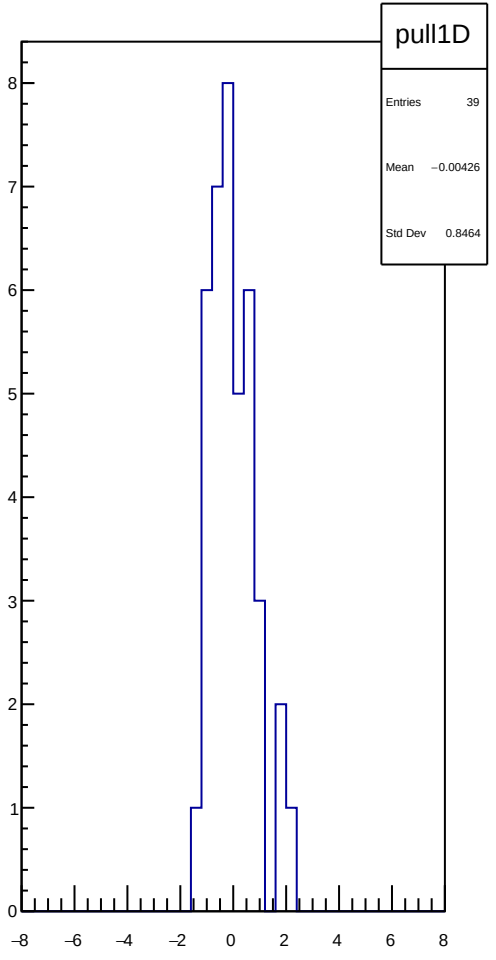

reg_asym_left_avg_diff_bpm11X_slope vs run
χ² / ndf 4.658 / 38
p0 −151.3 ± 0.4254
−146
−148
−150
−152
−154
−156
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −6.446
Std Dev 29.33
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 39
Mean 0.007347
Std Dev 0.3455
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

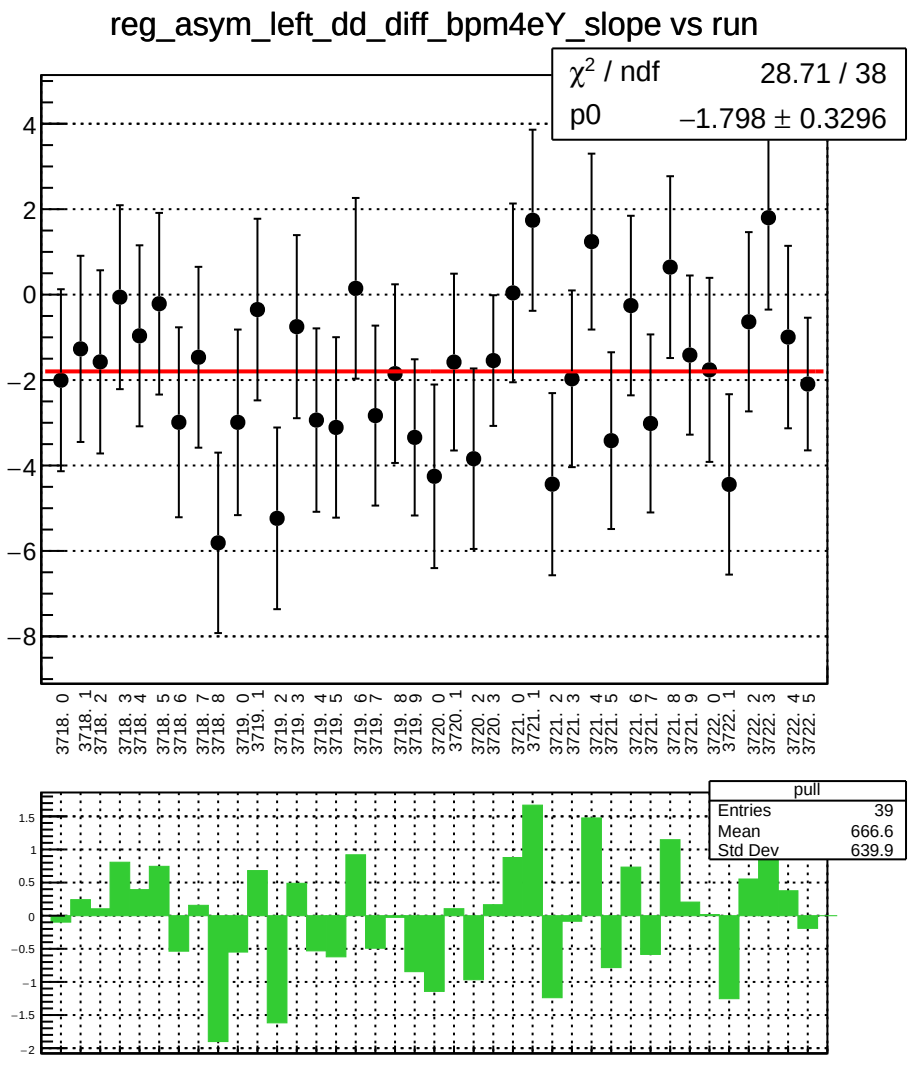

reg_asym_left_dd_diff_bpm4aX_slope vs run
χ² / ndf 25.19 / 38
p0 0.4158 ± 0.2927
pull
Entries 39
Mean 16.2
Std Dev 24.29
pull1D
Entries 39
Mean 0.01625
Std Dev 0.8035

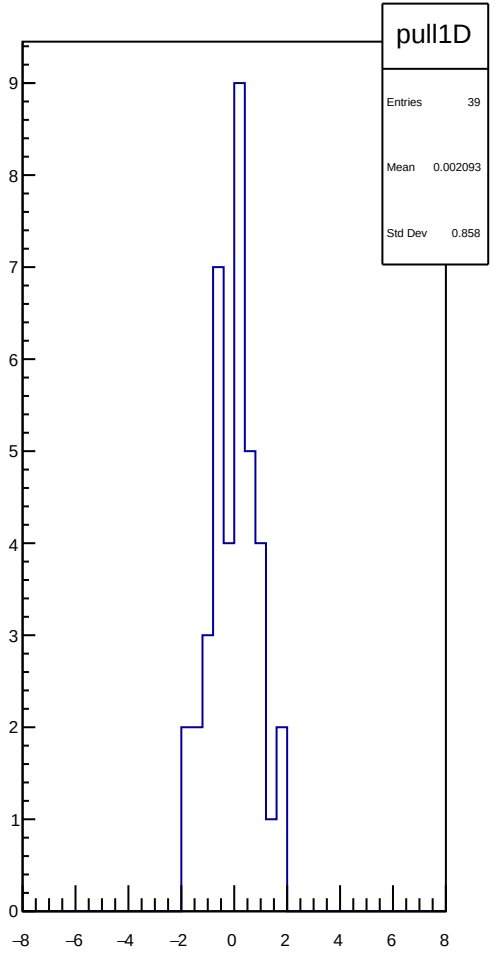

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 27.97 / 38
p0 0.3307 ± 0.2116
pull
Entries 39
Mean 114.7
Std Dev 86.29

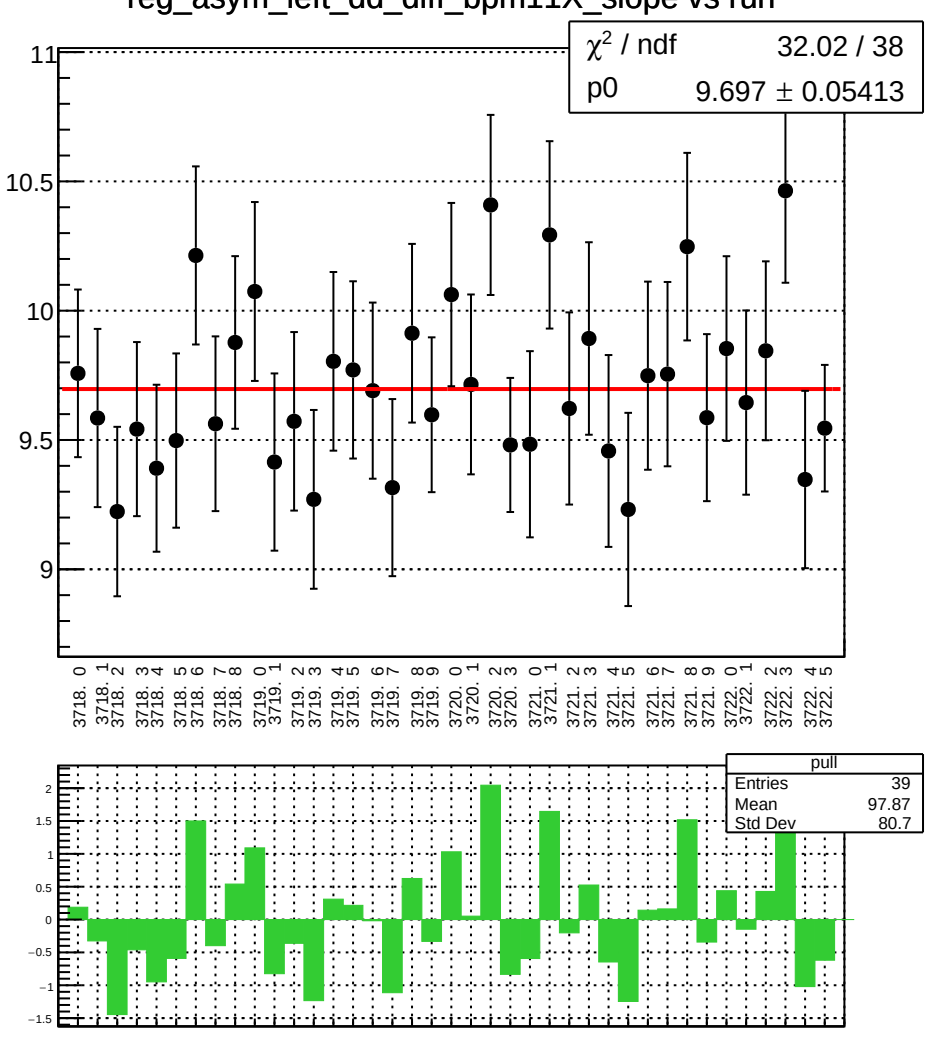

pull1D
Entries 39
Mean −0.00779
Std Dev 0.8468

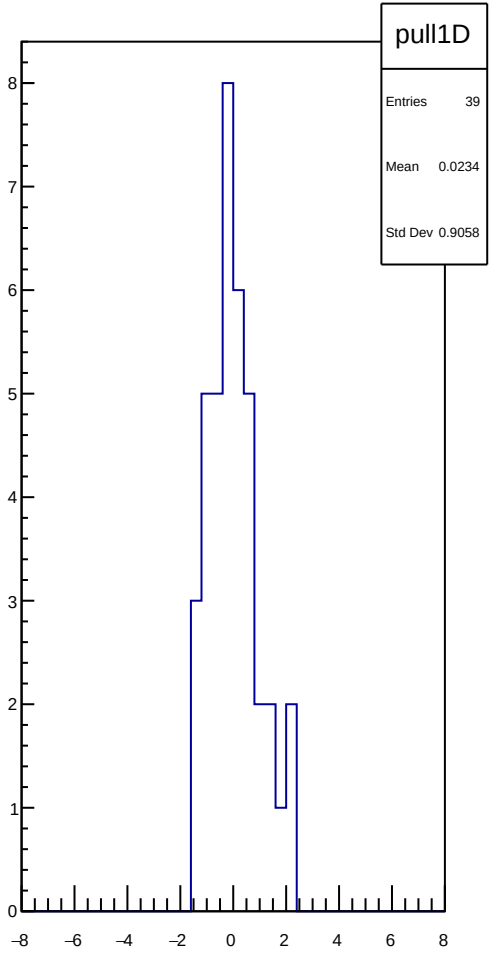

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 27.94 / 38
p0 5.231 ± 0.05736
6.5
6
5.5
5
4.5
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −275.2
Std Dev 306.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

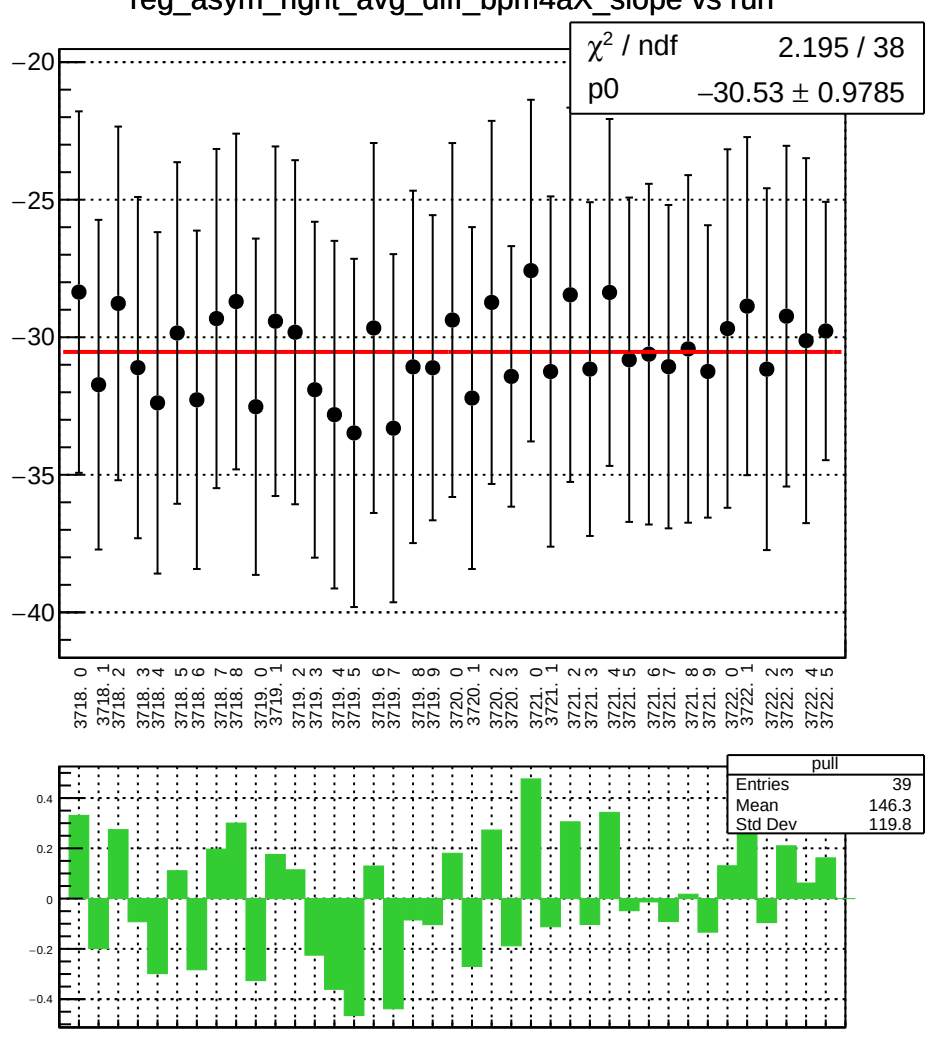

pull1D
Entries 39
Mean −0.00426
Std Dev 0.8464
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

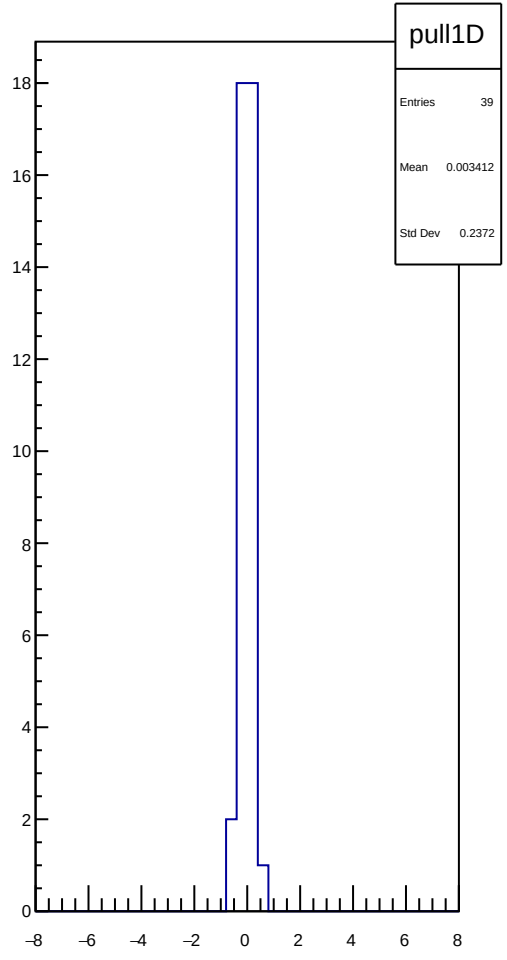

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 28.71 / 38
p0 −1.798 ± 0.3296
pull
Entries 39
Mean 666.6
Std Dev 639.9

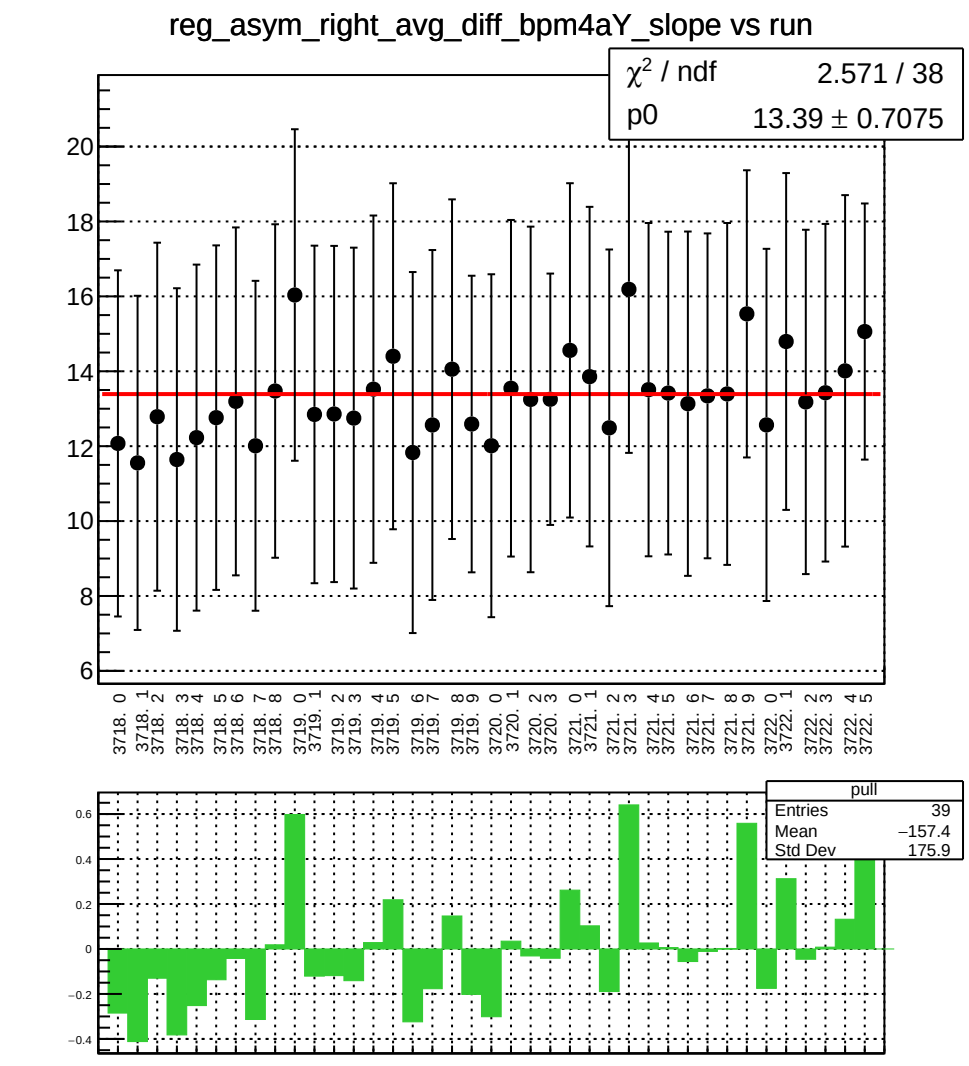

pull1D
Entries 39
Mean 0.002093
Std Dev 0.858

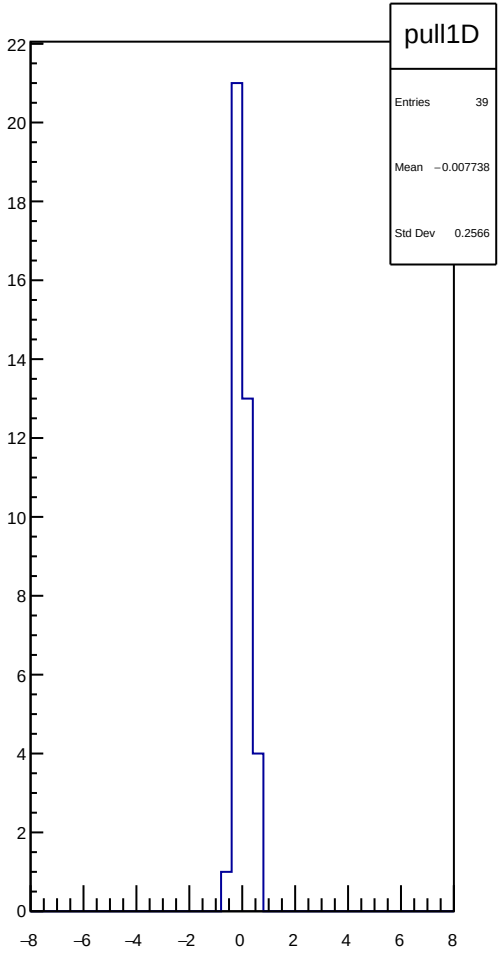

reg_asym_left_dd_diff_bpm11X_slope vs run
χ² / ndf 32.02 / 38
p0 9.697 ± 0.05413
11
10.5
10
9.5
9
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 97.87
Std Dev 80.7
2
1.5
1
0.5
0
−0.5
−1
−1.5

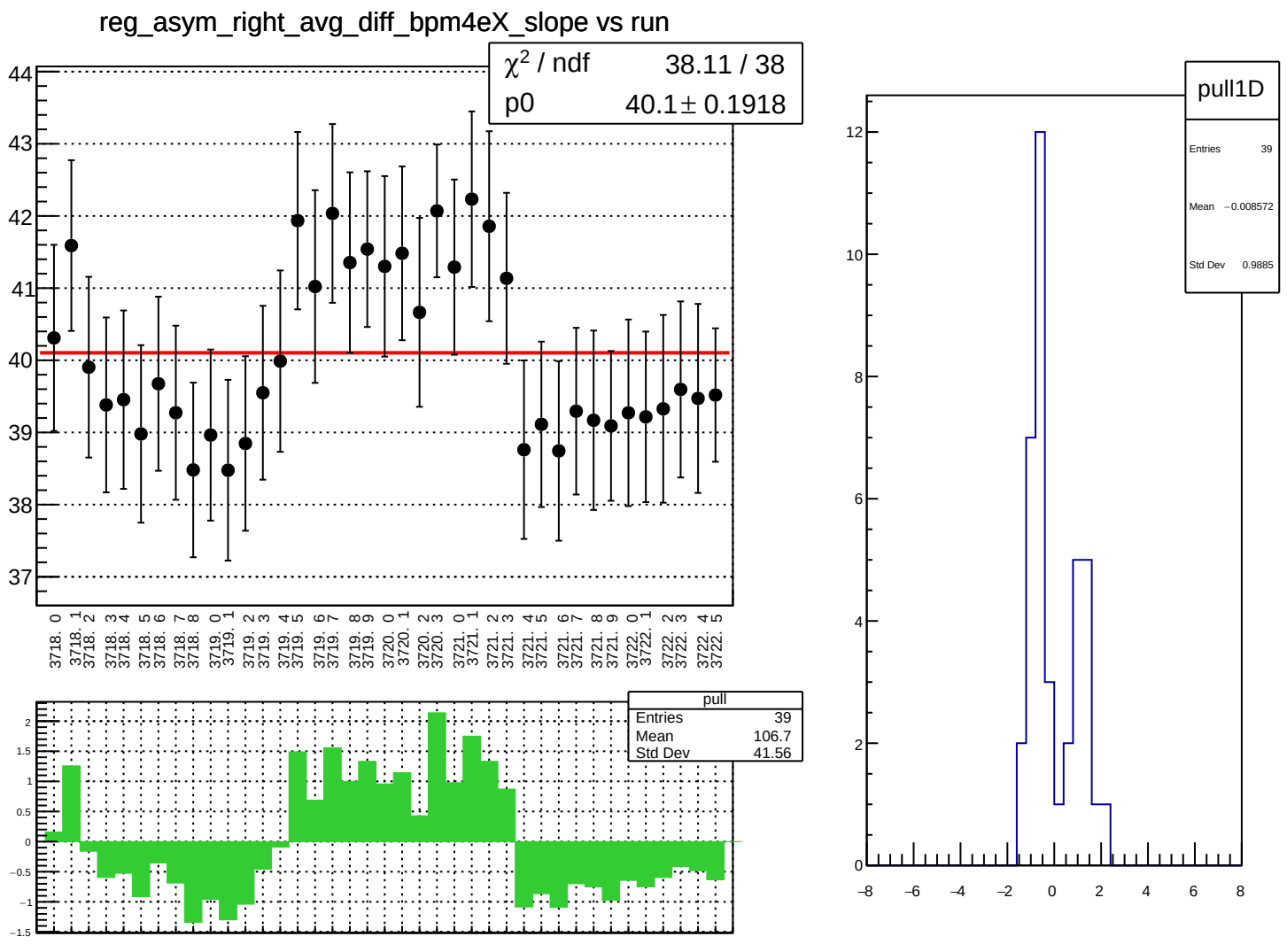

pull1D
Entries 39
Mean 0.0234
Std Dev 0.9058
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

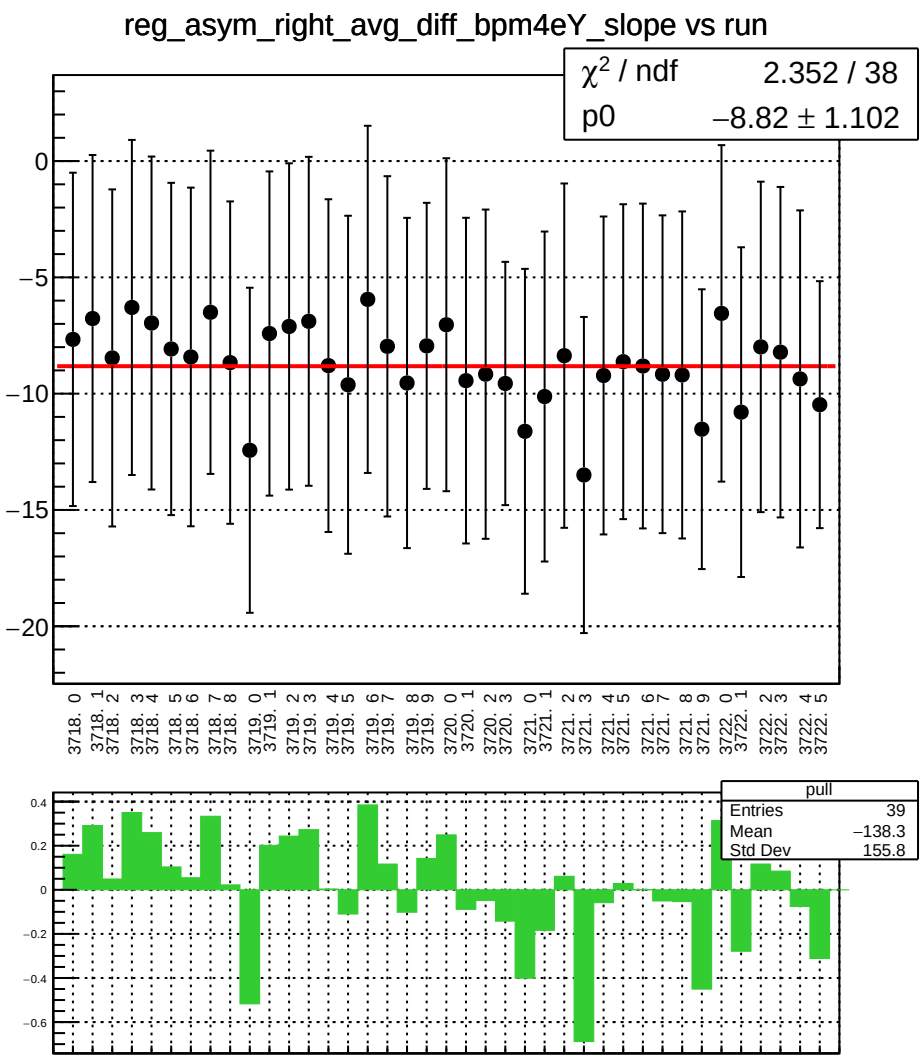

reg_asym_right_avg_diff_bpm4aX_slope vs run
χ² / ndf 2.195 / 38
p0 −30.53 ± 0.9785
pull
Entries 39
Mean 146.3
Std Dev 119.8

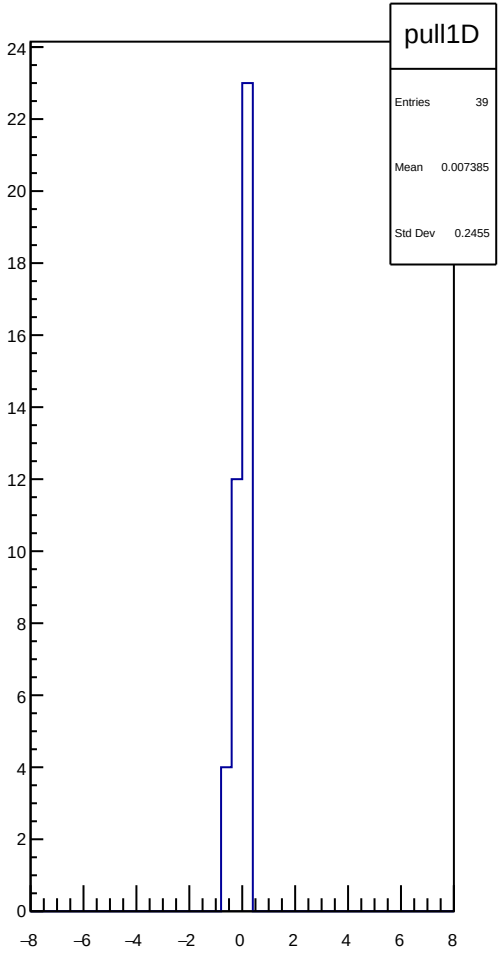

pull1D
Entries 39
Mean 0.003412
Std Dev 0.2372

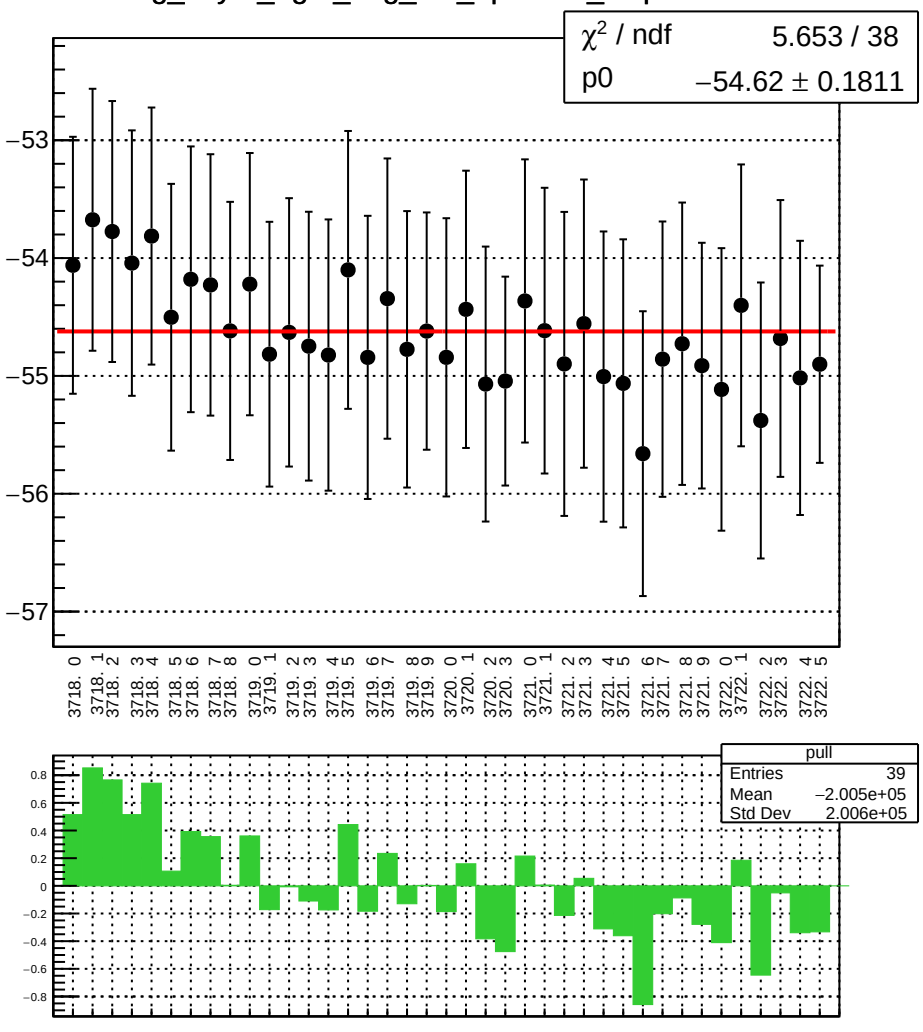

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.571 / 38
p0 13.39 ± 0.7075
pull
Entries 39
Mean −157.4
Std Dev 175.9

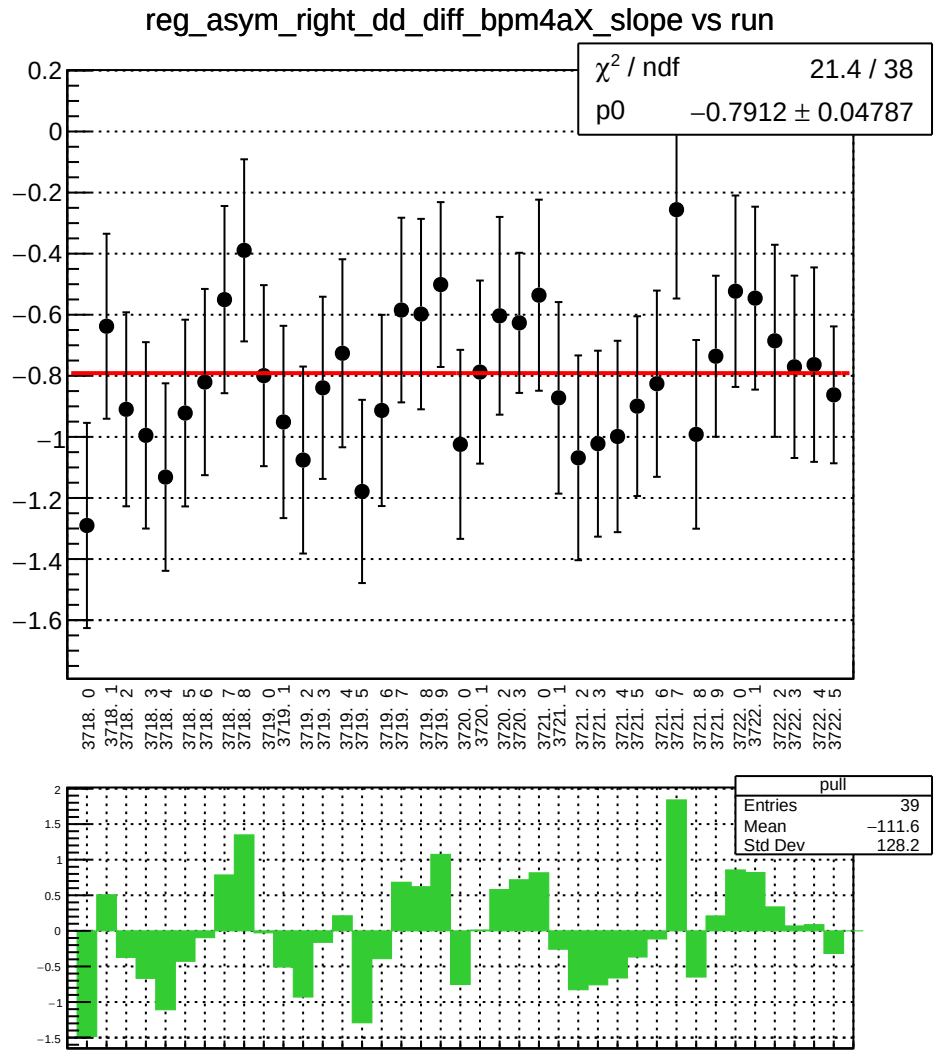

pull1D
Entries 39
Mean −0.007738
Std Dev 0.2566

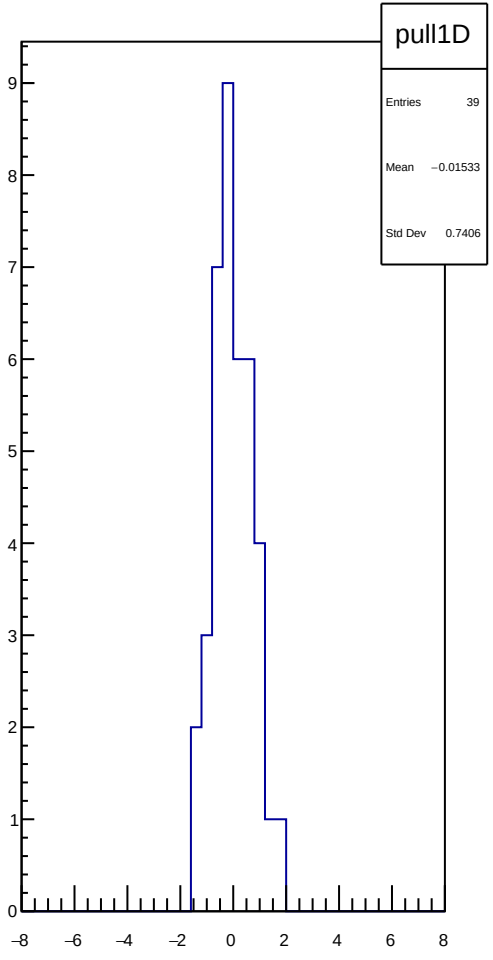

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 38.11 / 38
p0 40.1 ± 0.1918
pull
Entries 39
Mean 106.7
Std Dev 41.56
pull1D
Entries 39
Mean −0.008572
Std Dev 0.9885

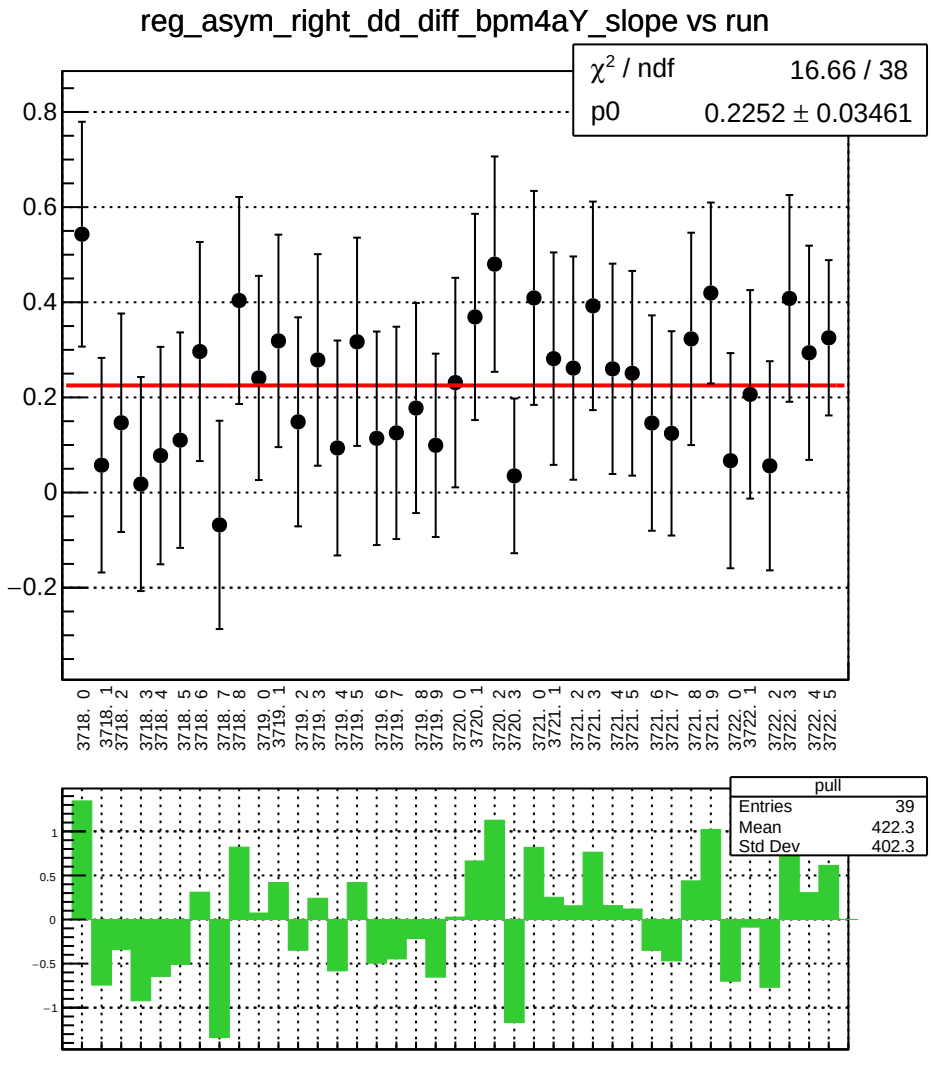

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.352 / 38
p0 −8.82 ± 1.102
0
−5
−10
−15
−20
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −138.3
Std Dev 155.8
0.4
0.2
0
−0.2
−0.4
−0.6

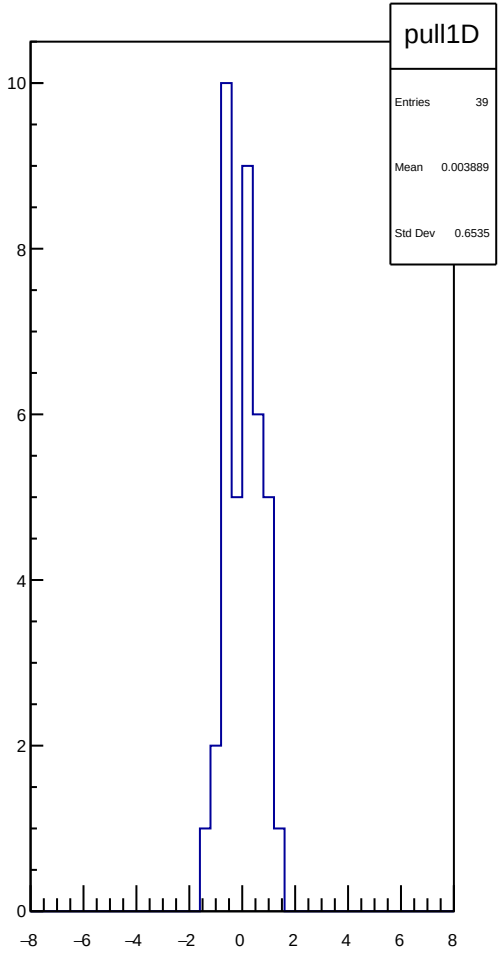

pull1D
Entries 39
Mean 0.007385
Std Dev 0.2455
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

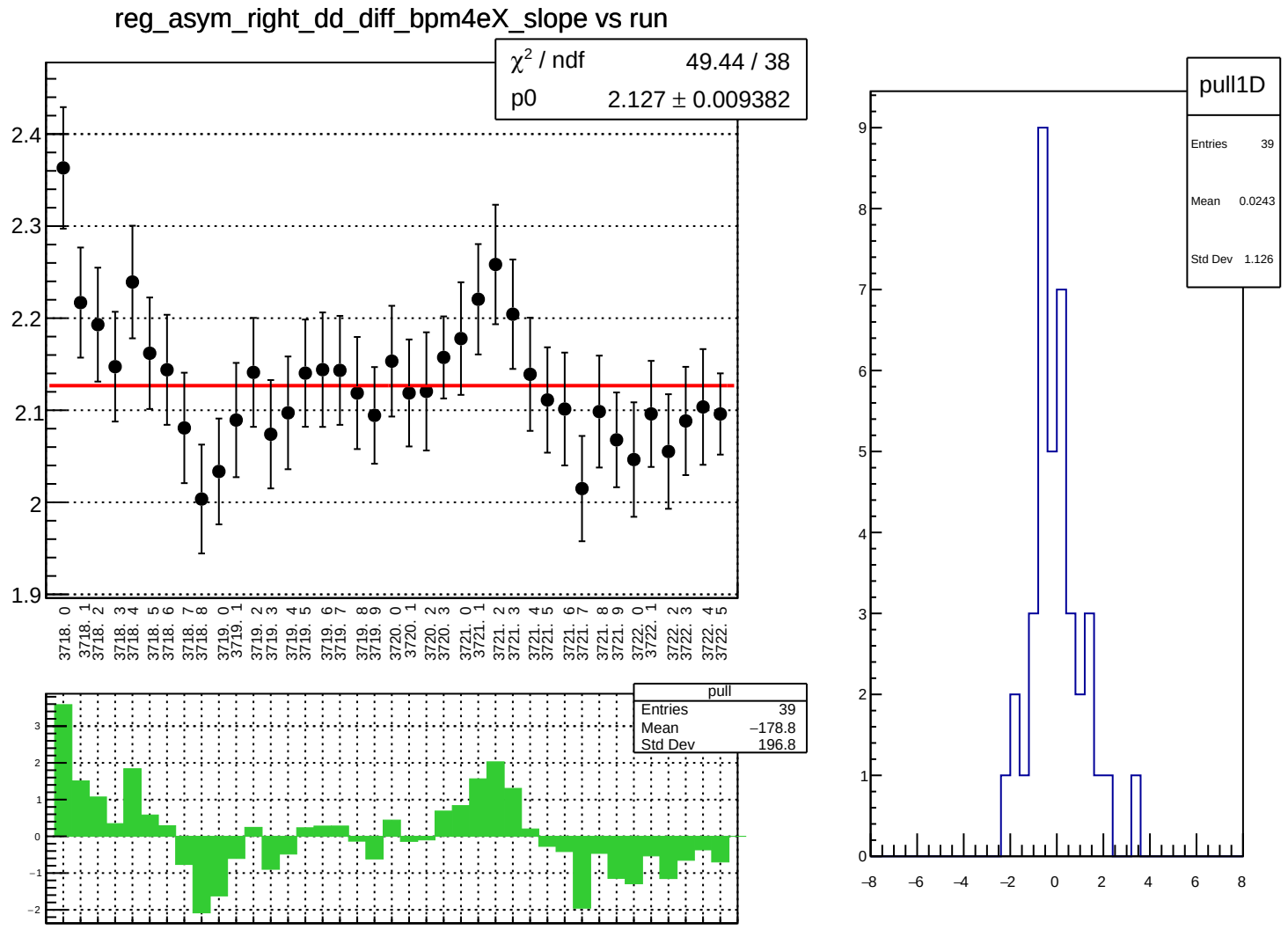

reg_asym_right_avg_diff_bpm11X_slope vs run
χ² / ndf 5.653 / 38
p0 −54.62 ± 0.1811
−53
−54
−55
−56
−57
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −2.005e+05
Std Dev 2.006e+05
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 39
Mean 1.539e−05
Std Dev 0.3807
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

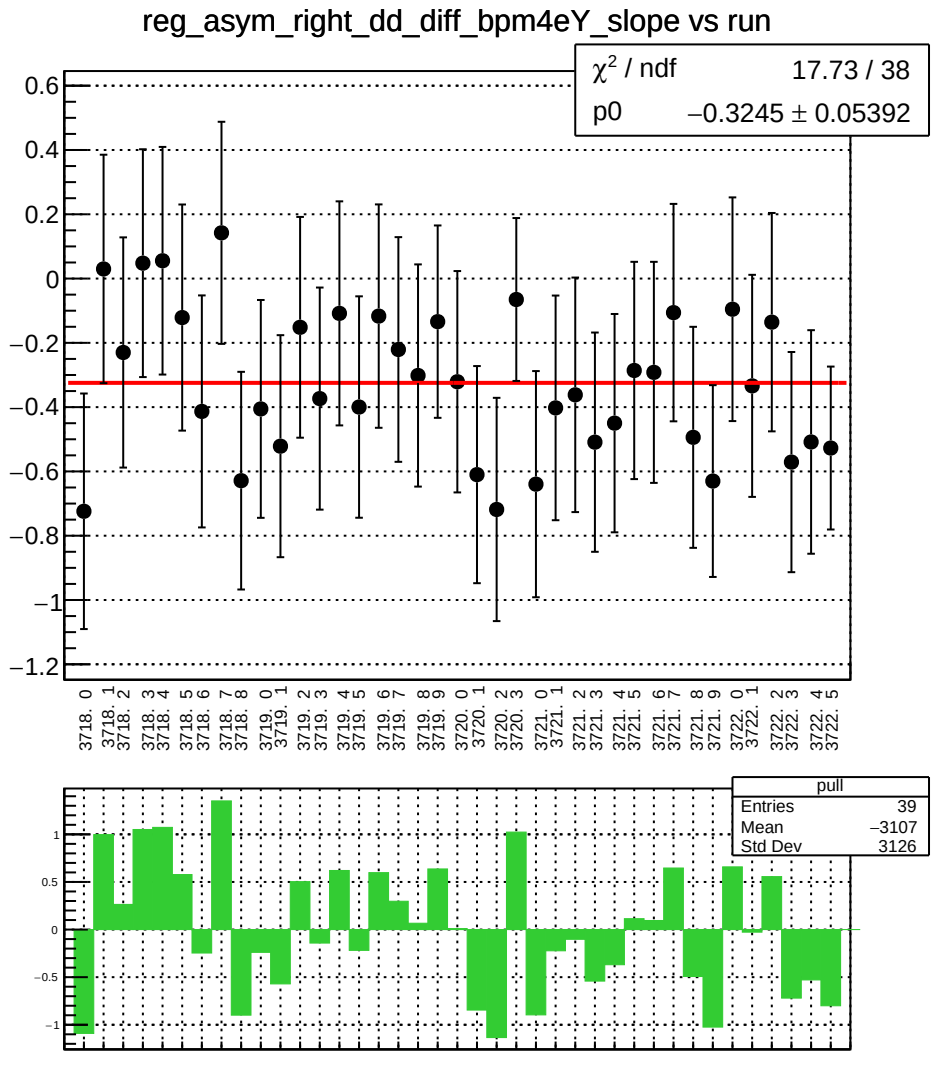

reg_asym_right_dd_diff_bpm4aX_slope vs run
χ² / ndf 21.4 / 38
p0 −0.7912 ± 0.04787
pull
Entries 39
Mean −111.6
Std Dev 128.2

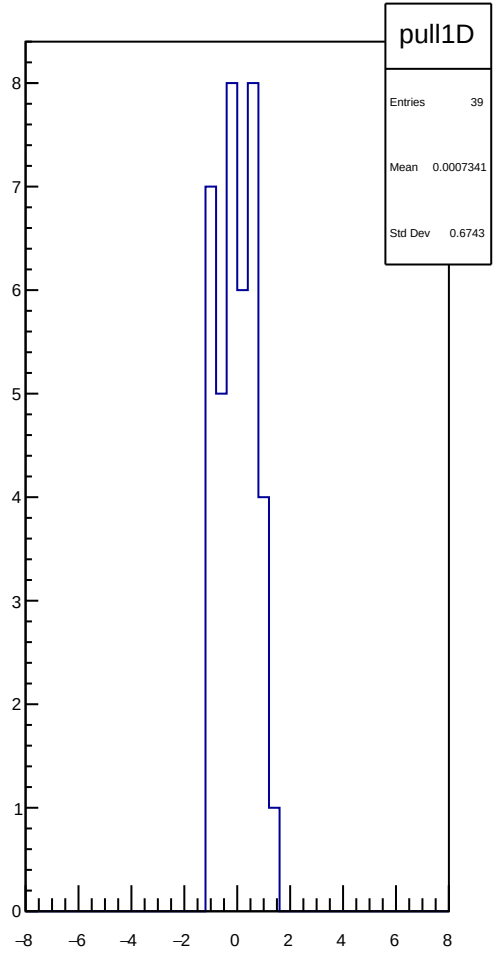

pull1D
Entries 39
Mean −0.01533
Std Dev 0.7406

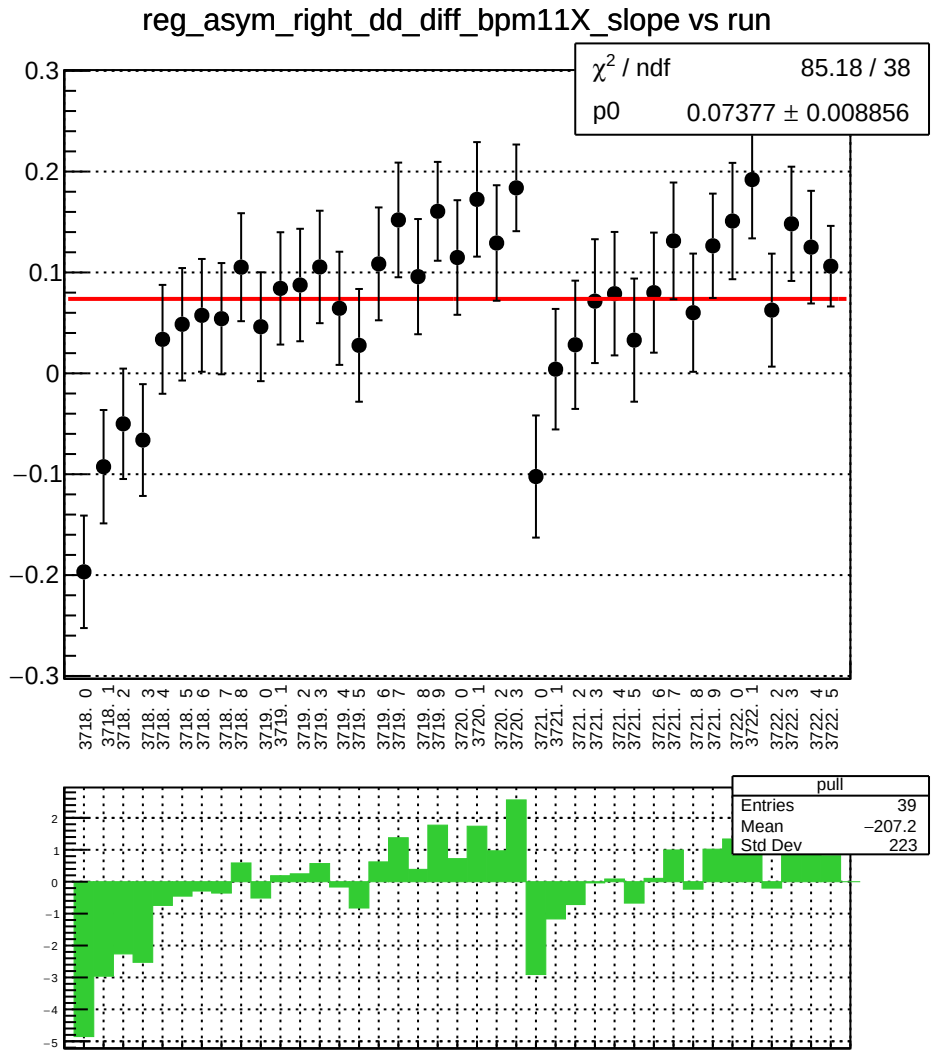

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 16.66 / 38
p0 0.2252 ± 0.03461
pull
Entries 39
Mean 422.3
Std Dev 402.3

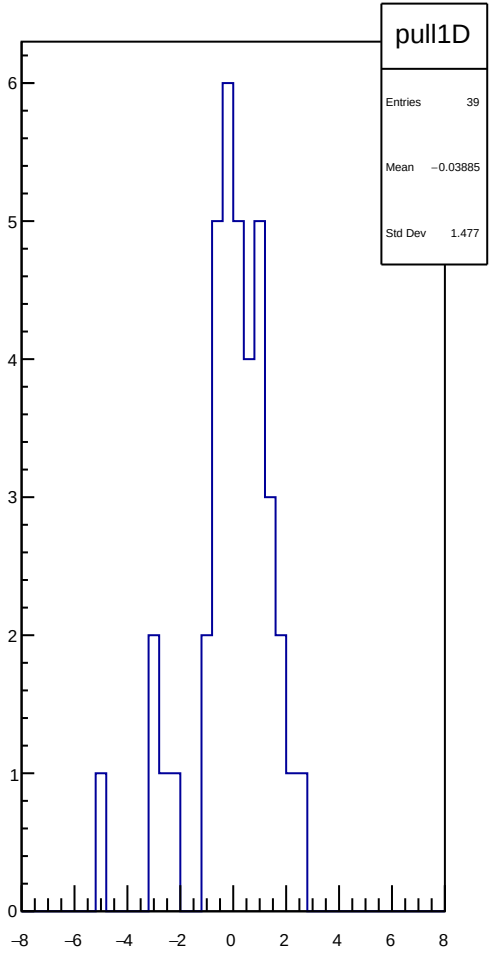

pull1D
Entries 39
Mean 0.003889
Std Dev 0.6535

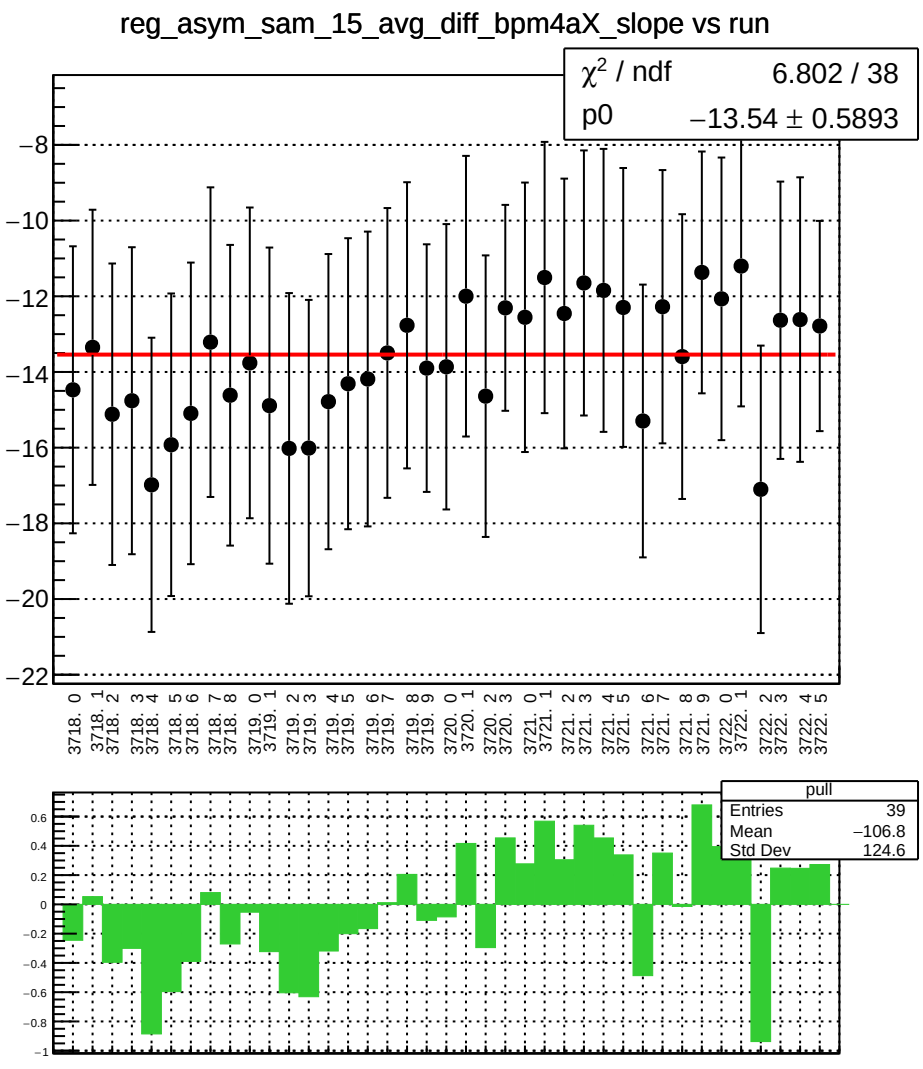

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 49.44 / 38
p0 2.127 ± 0.009382
2.4
2.3
2.2
2.1
2
1.9
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −178.8
Std Dev 196.8
3
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.0243
Std Dev 1.126
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

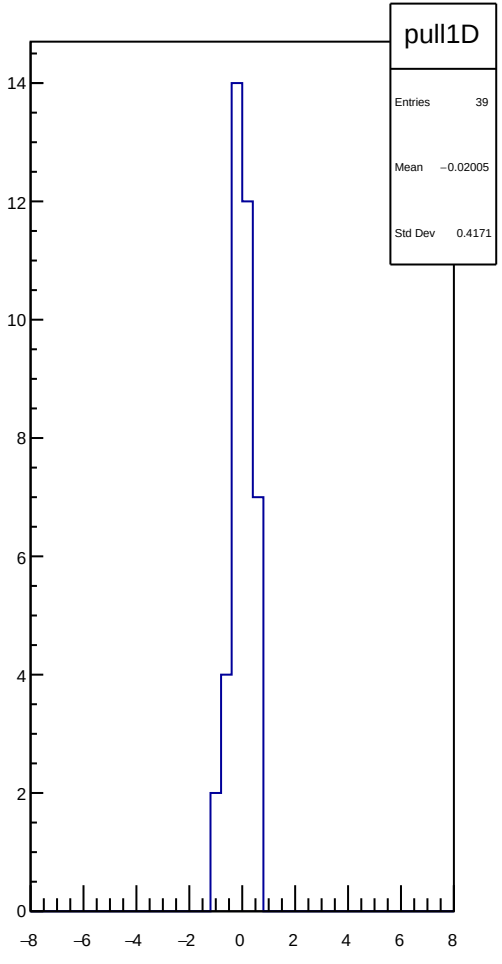

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 17.73 / 38
p0 −0.3245 ± 0.05392
pull
Entries 39
Mean −3107
Std Dev 3126

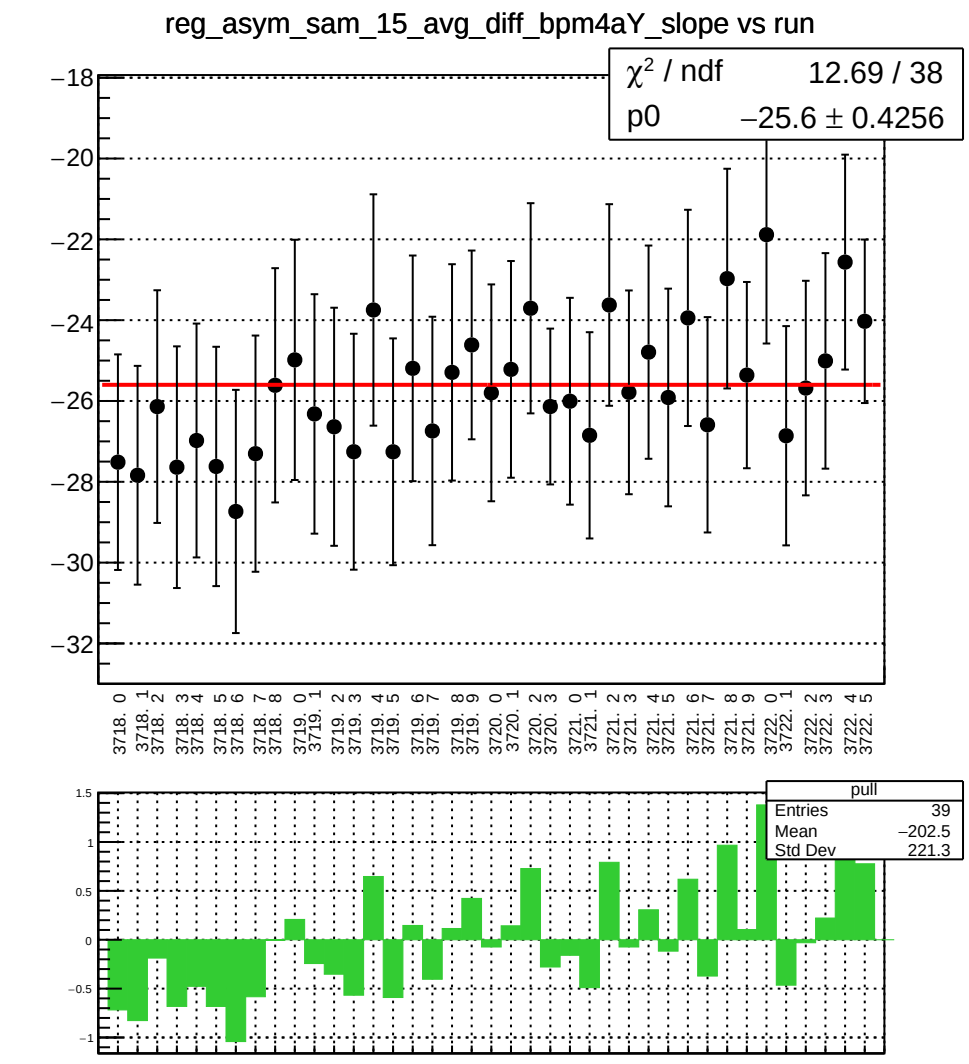

pull1D
Entries 39
Mean 0.0007341
Std Dev 0.6743

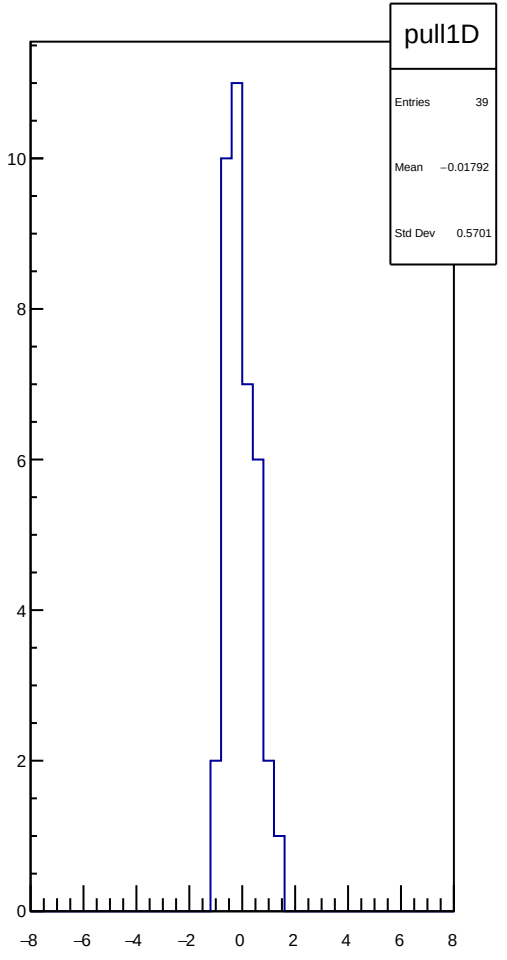

reg_asym_right_dd_diff_bpm11X_slope vs run
χ² / ndf 85.18 / 38
p0 0.07377 ± 0.008856
pull
Entries 39
Mean −207.2
Std Dev 223

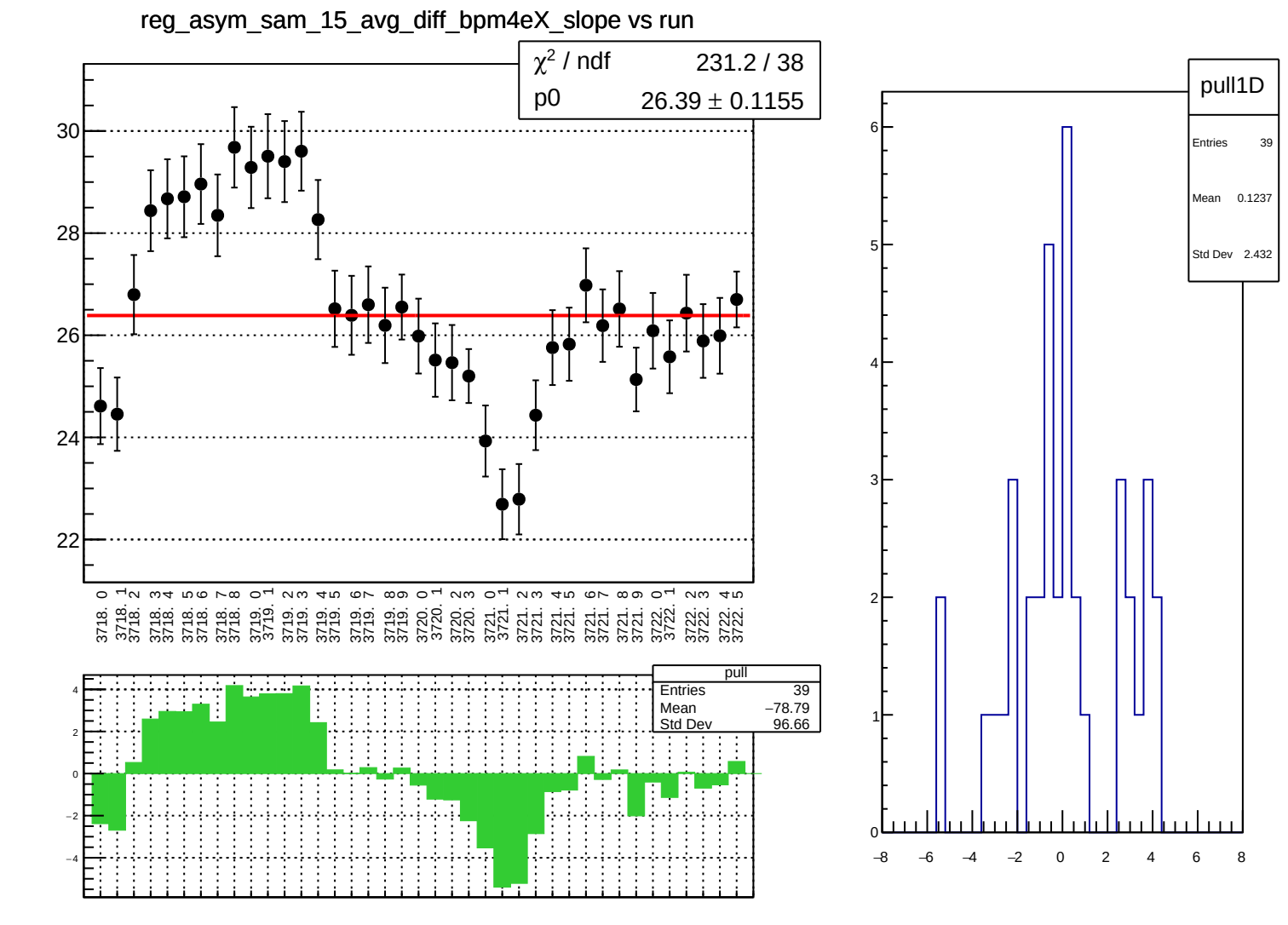

pull1D
Entries 39
Mean −0.03885
Std Dev 1.477

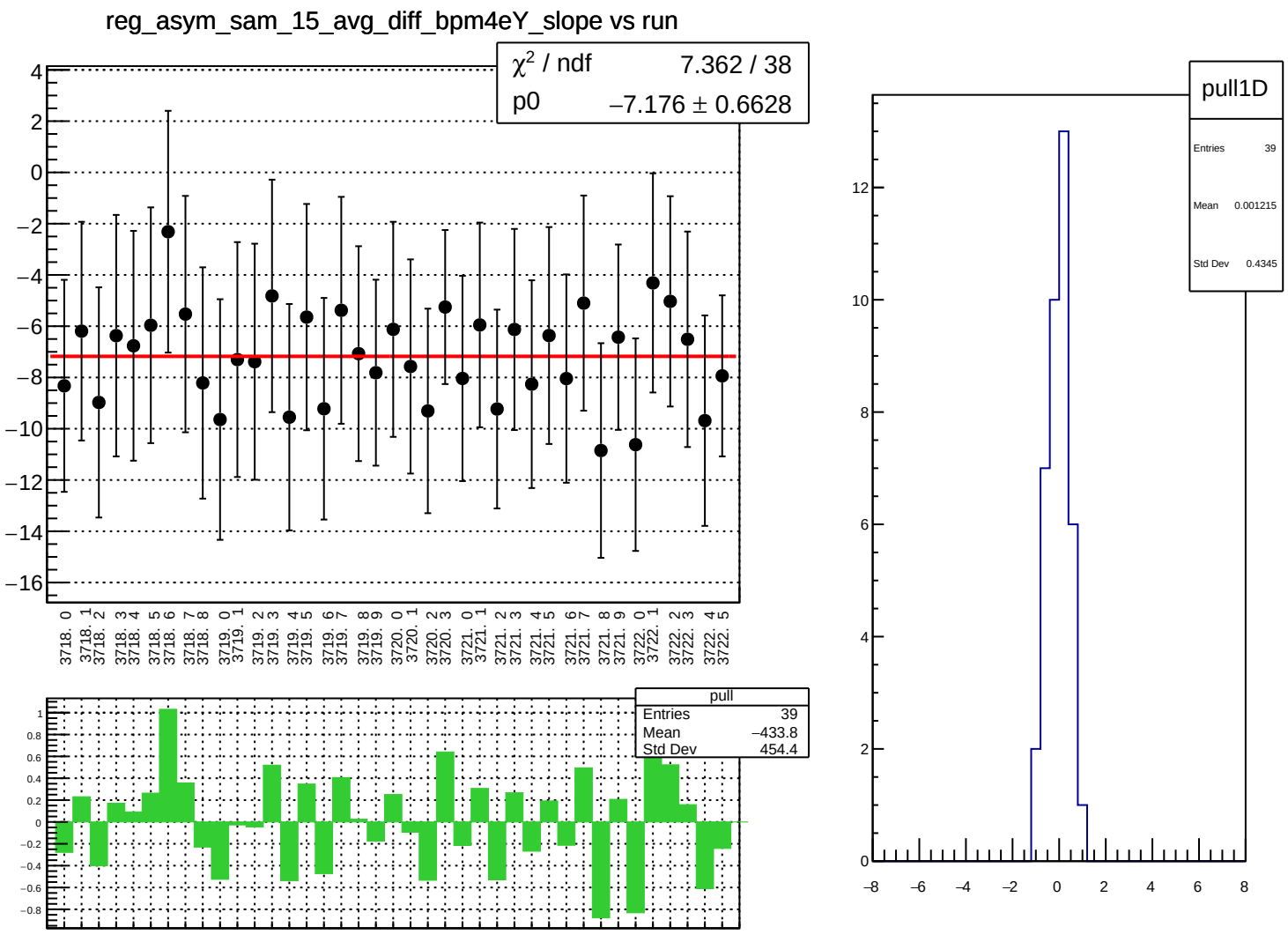

reg_asym_sam_15_avg_diff_bpm4aX_slope vs run
χ² / ndf 6.802 / 38
p0 −13.54 ± 0.5893
pull
Entries 39
Mean −106.8
Std Dev 124.6

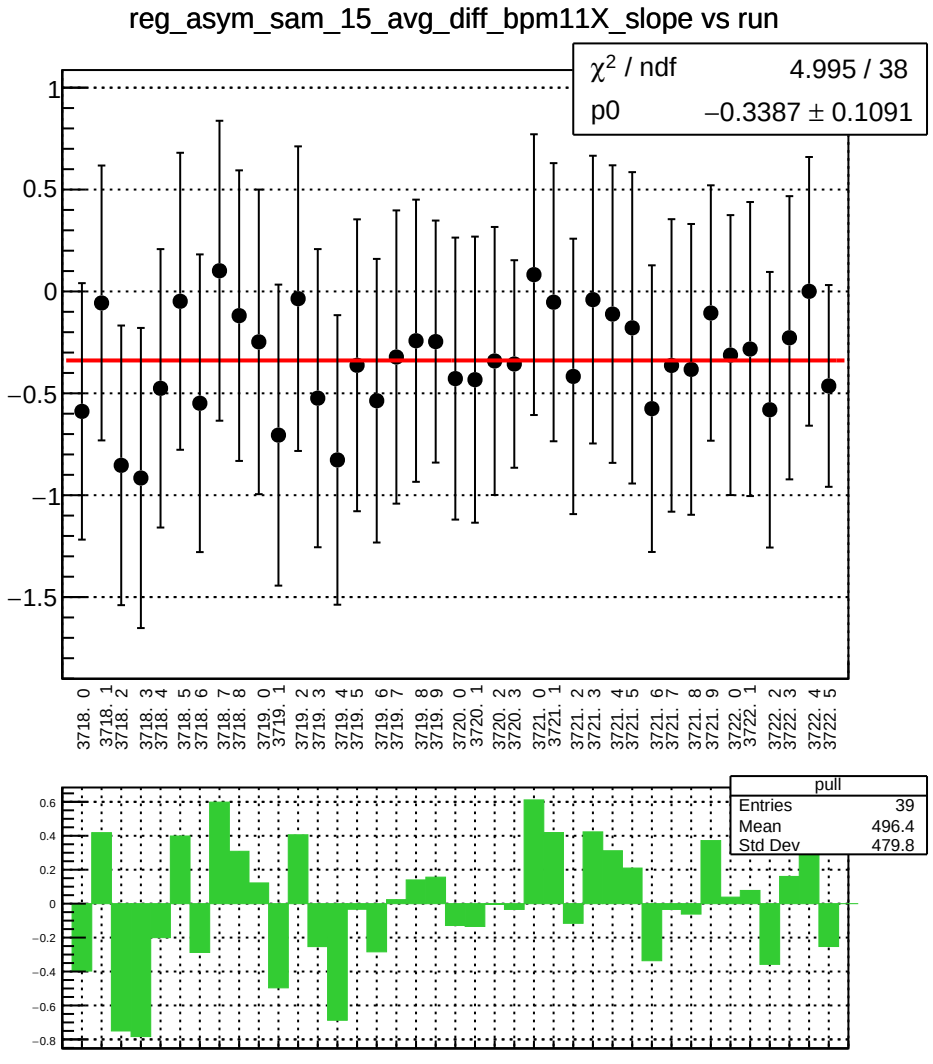

pull1D
Entries 39
Mean −0.02005
Std Dev 0.4171

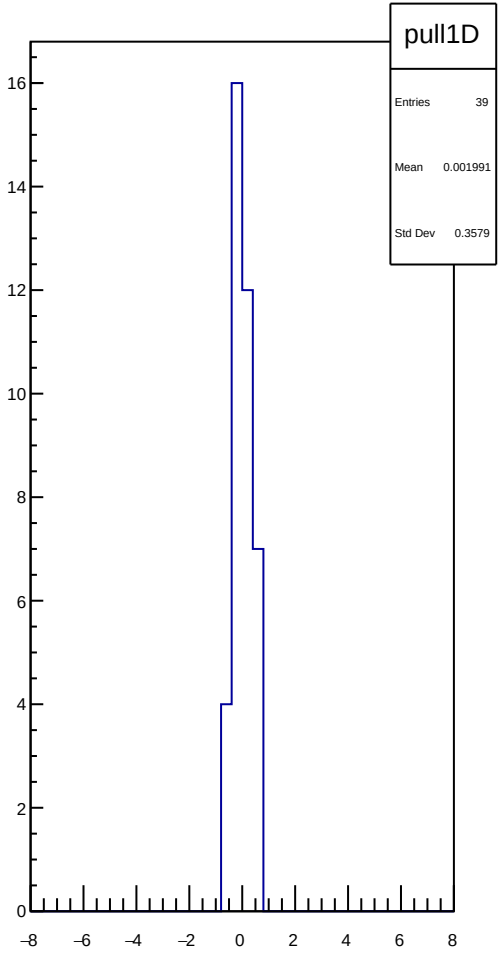

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 12.69 / 38
p0 −25.6 ± 0.4256
pull
Entries 39
Mean −202.5
Std Dev 221.3

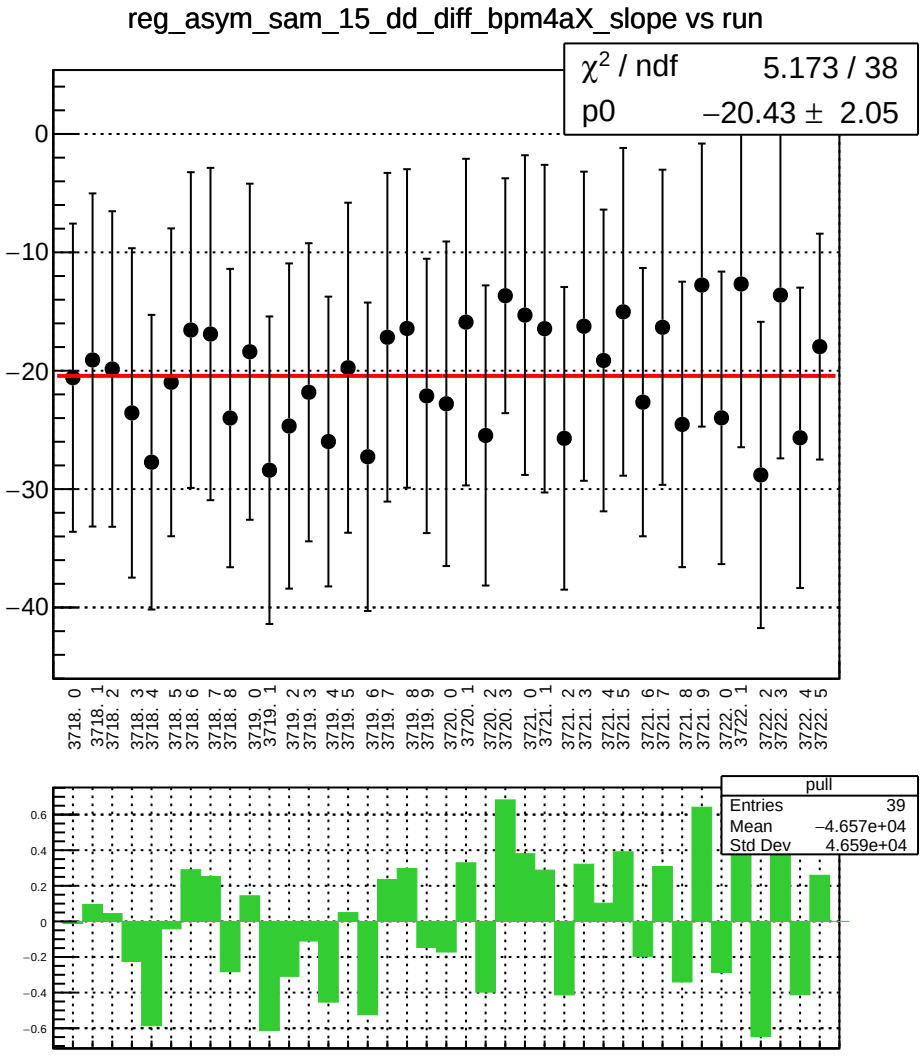

pull1D
Entries 39
Mean −0.01792
Std Dev 0.5701

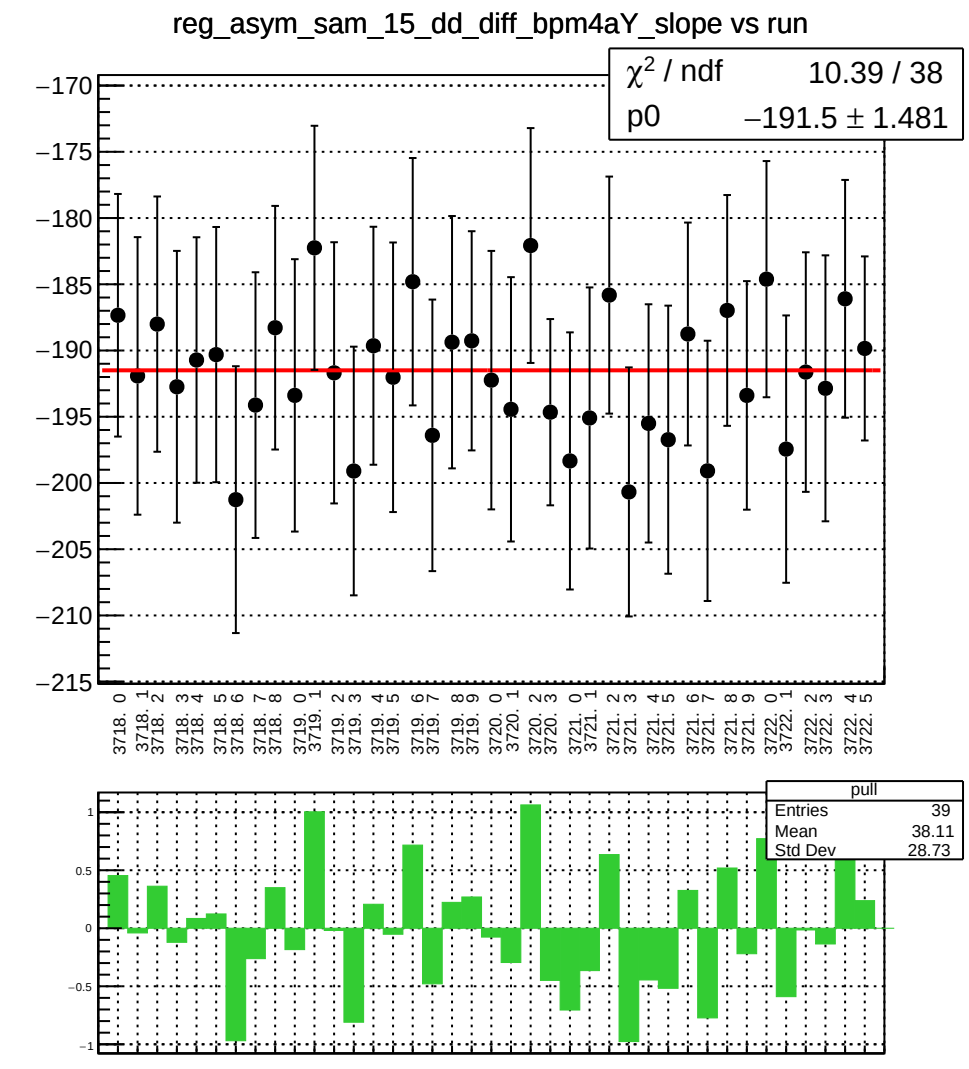

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 231.2 / 38
p0 26.39 ± 0.1155
30
28
26
24
22
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −78.79
Std Dev 96.66
4
2
0
−2
−4
pull1D
Entries 39
Mean 0.1237
Std Dev 2.432
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

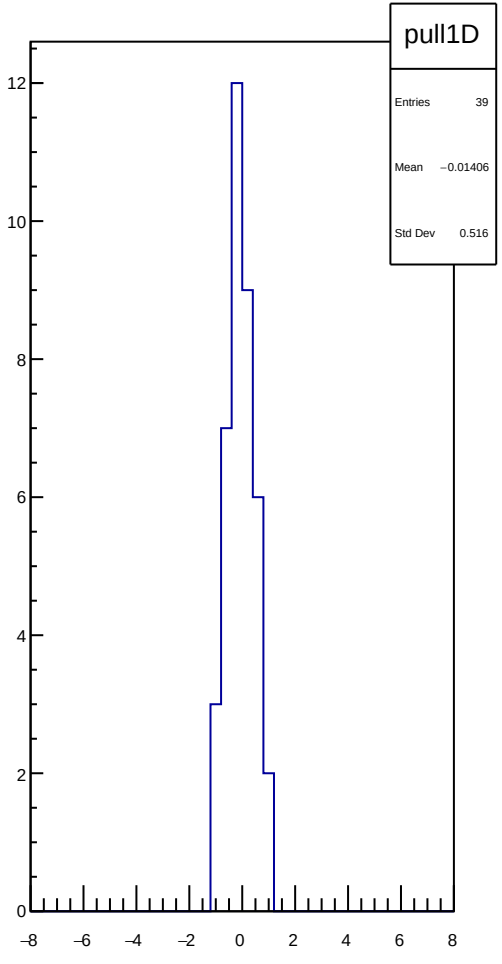

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.362 / 38
p0 −7.176 ± 0.6628
pull
Entries 39
Mean −433.8
Std Dev 454.4
pull1D
Entries 39
Mean 0.001215
Std Dev 0.4345

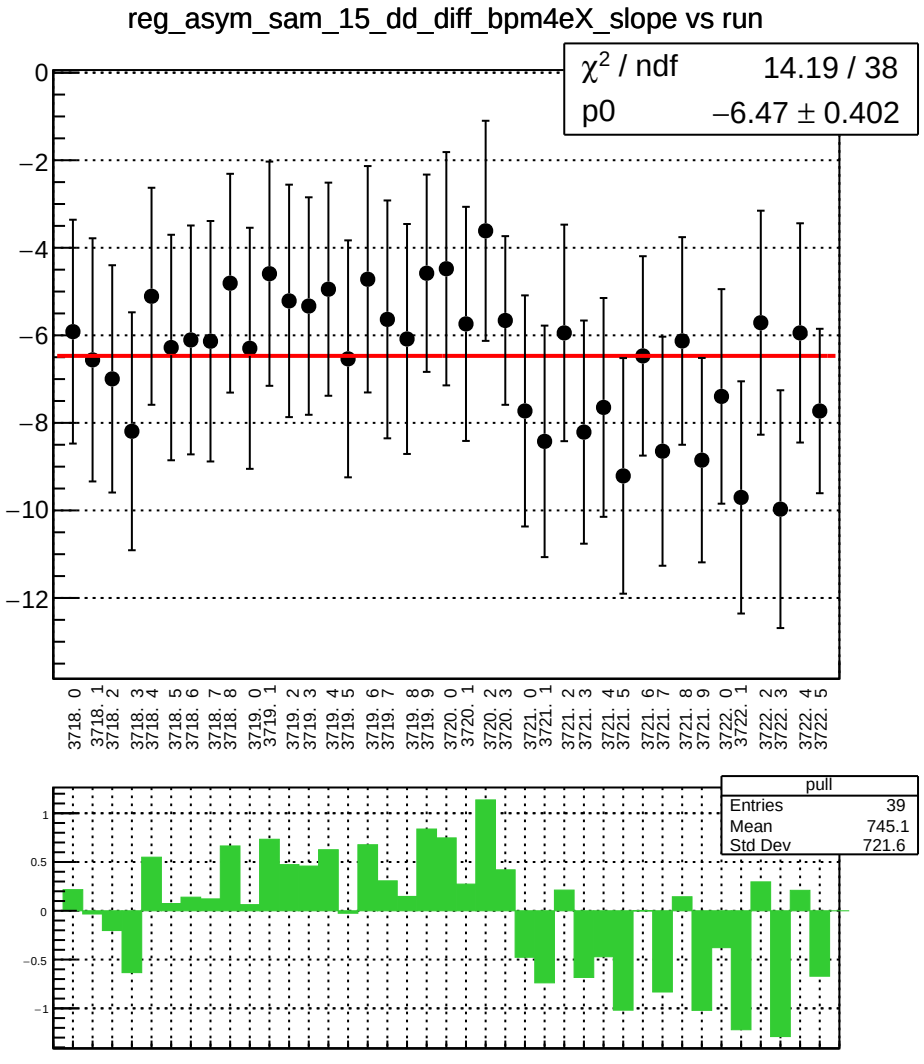

reg_asym_sam_15_avg_diff_bpm11X_slope vs run
χ² / ndf 4.995 / 38
p0 −0.3387 ± 0.1091
pull
Entries 39
Mean 496.4
Std Dev 479.8

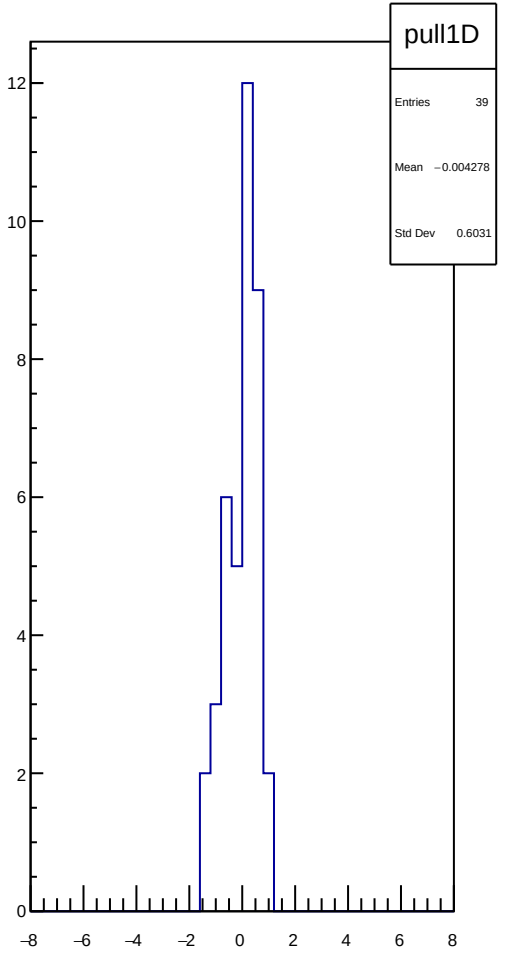

pull1D
Entries 39
Mean 0.001991
Std Dev 0.3579

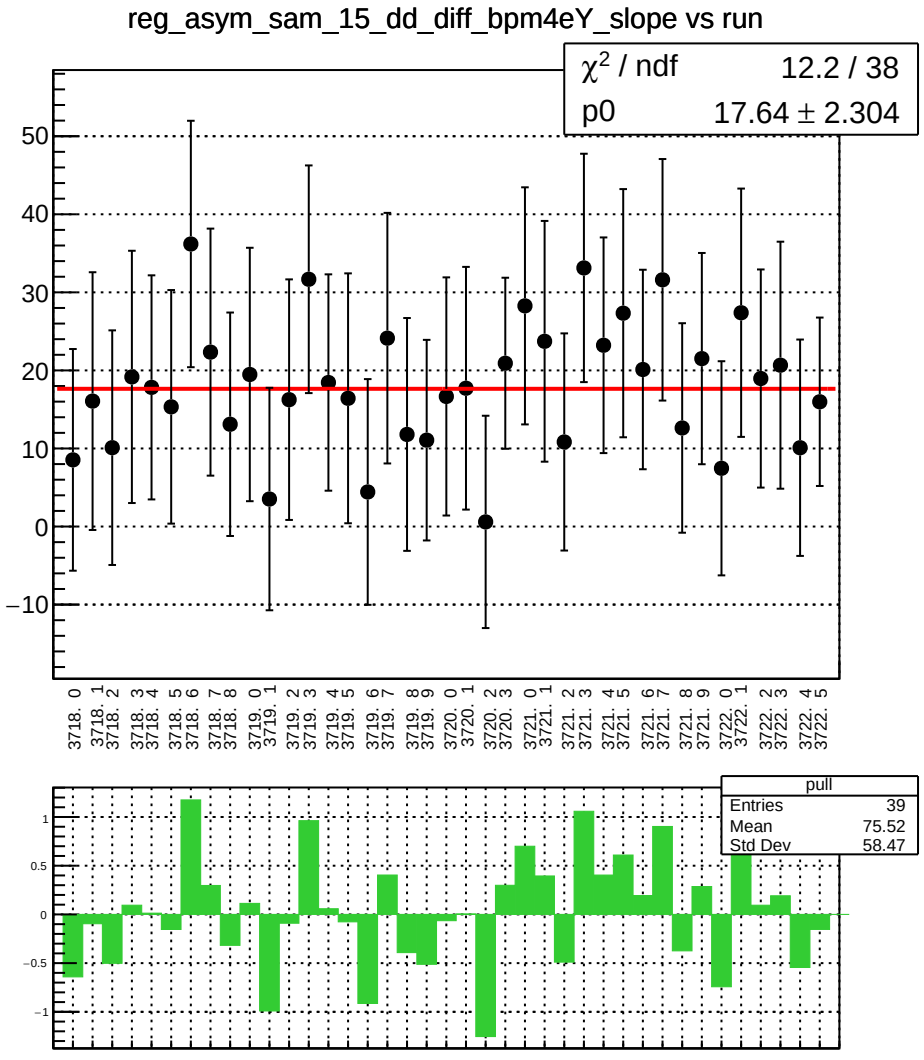

reg_asym_sam_15_dd_diff_bpm4aX_slope vs run
χ² / ndf 5.173 / 38
p0 −20.43 ± 2.05
0
−10
−20
−30
−40
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −4.657e+04
Std Dev 4.659e+04
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 39
Mean −1.768e−05
Std Dev 0.3642
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

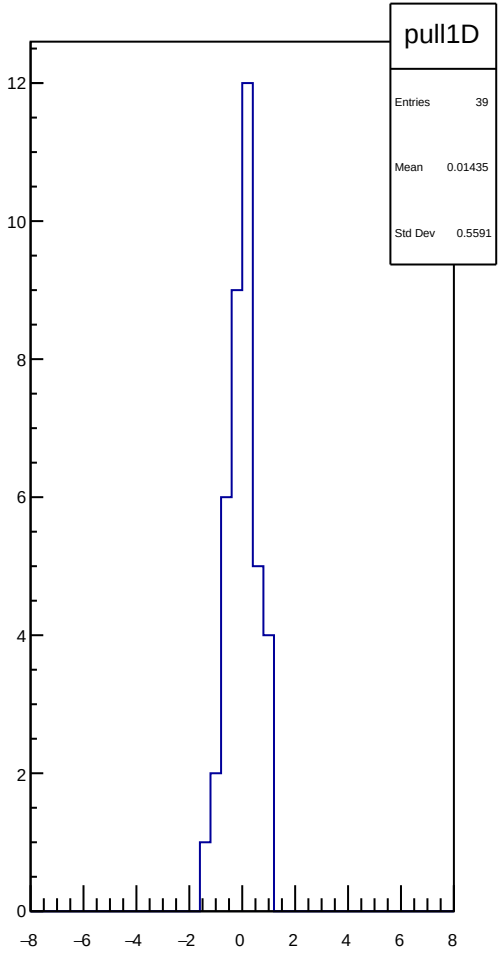

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.39 / 38
p0 −191.5 ± 1.481
pull
Entries 39
Mean 38.11
Std Dev 28.73

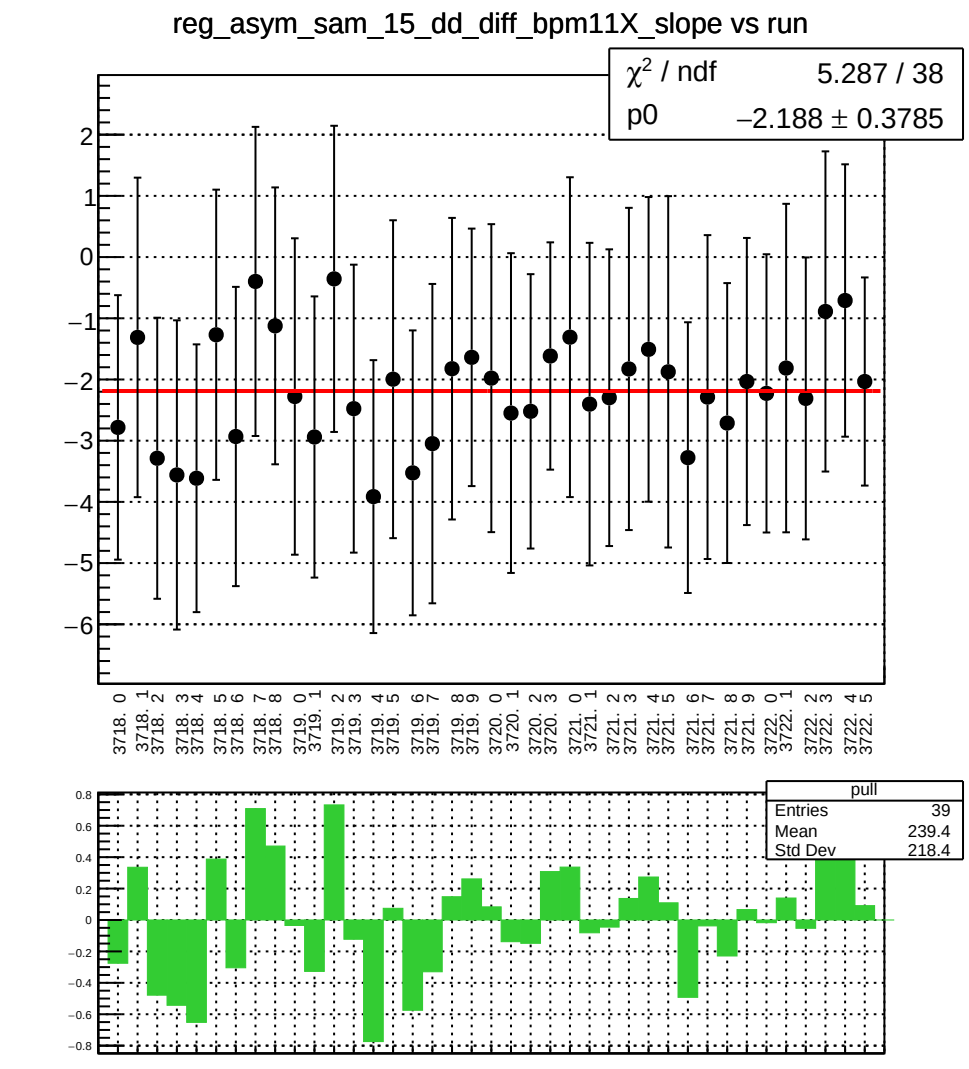

pull1D
Entries 39
Mean −0.01406
Std Dev 0.516

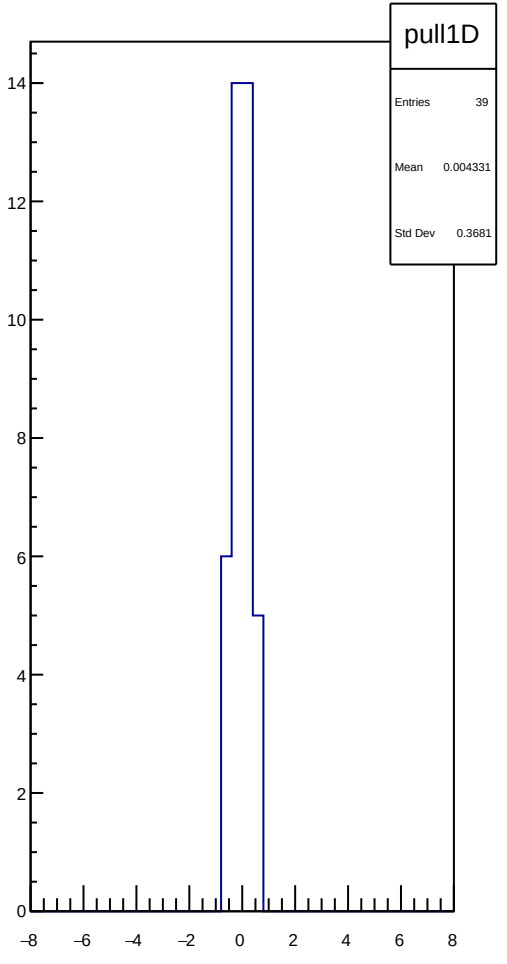

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 14.19 / 38
p0 −6.47 ± 0.402
0
−2
−4
−6
−8
−10
−12
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 745.1
Std Dev 721.6
1
0.5
0
−0.5
−1

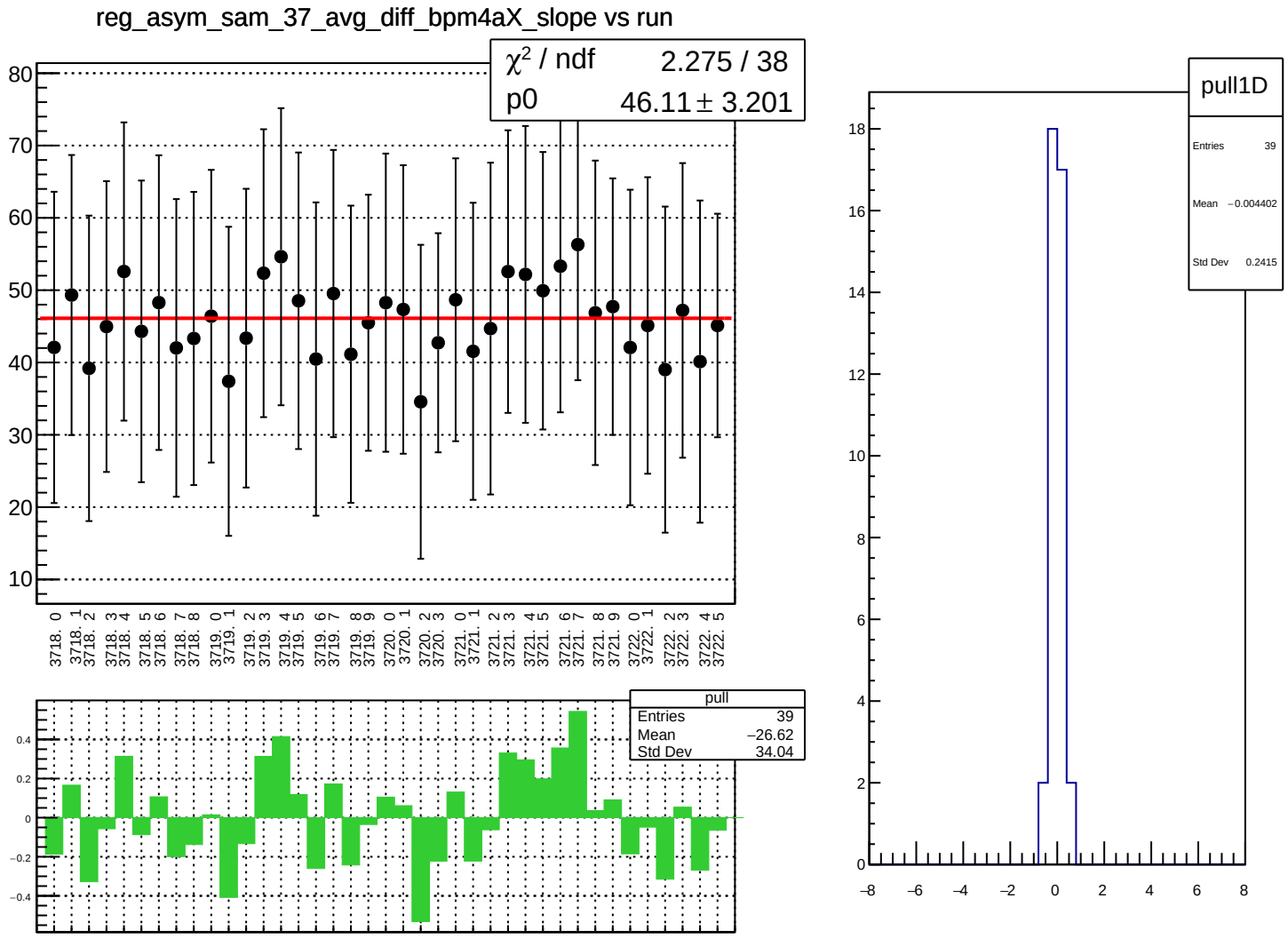

pull1D
Entries 39
Mean −0.004278
Std Dev 0.6031
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

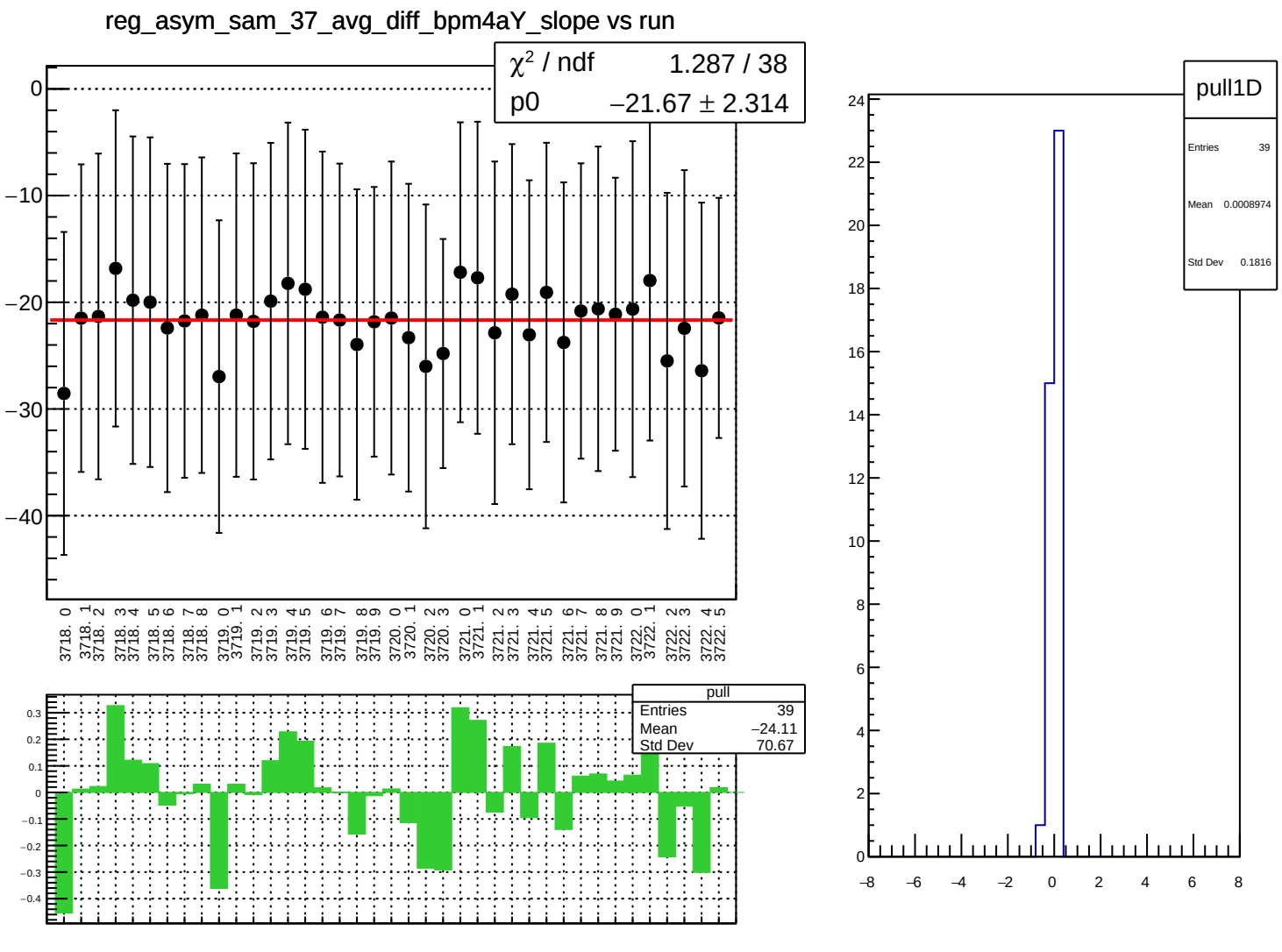

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 12.2 / 38
p0 17.64 ± 2.304
pull
Entries 39
Mean 75.52
Std Dev 58.47

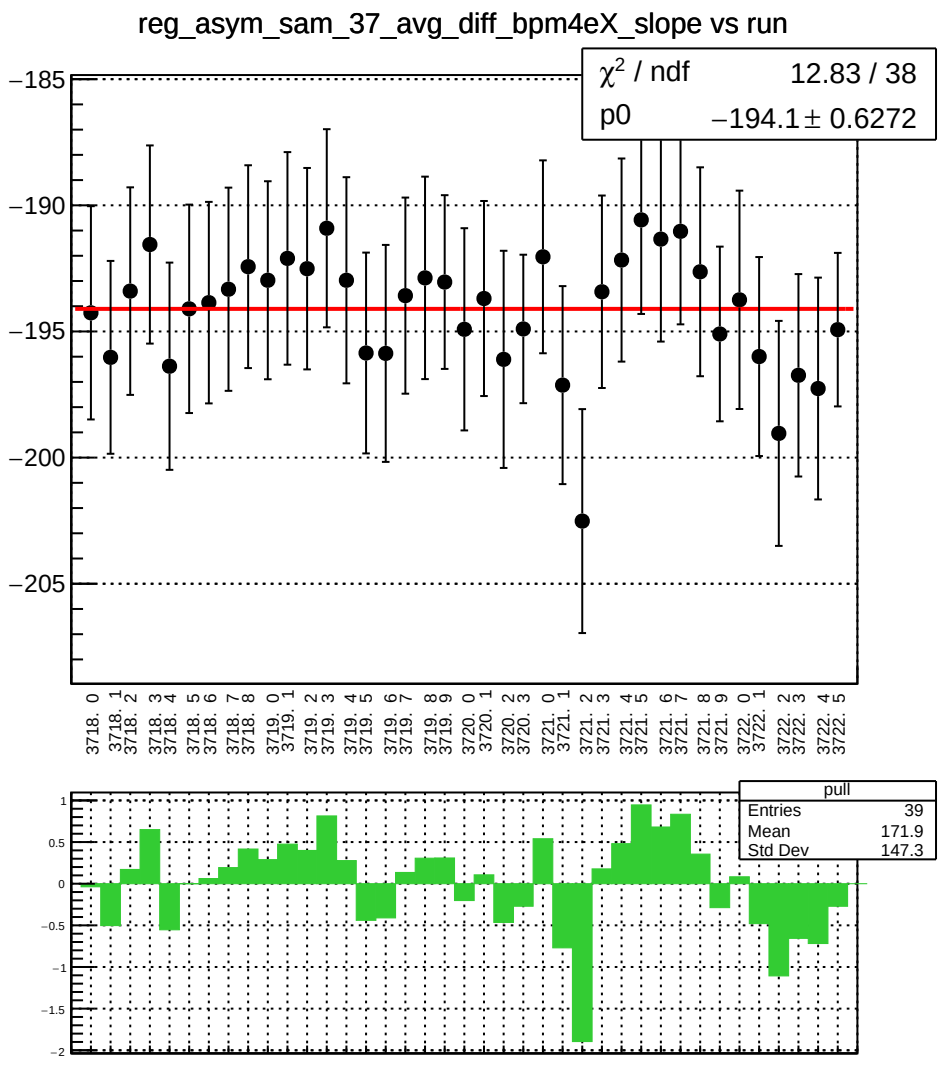

pull1D
Entries 39
Mean 0.01435
Std Dev 0.5591

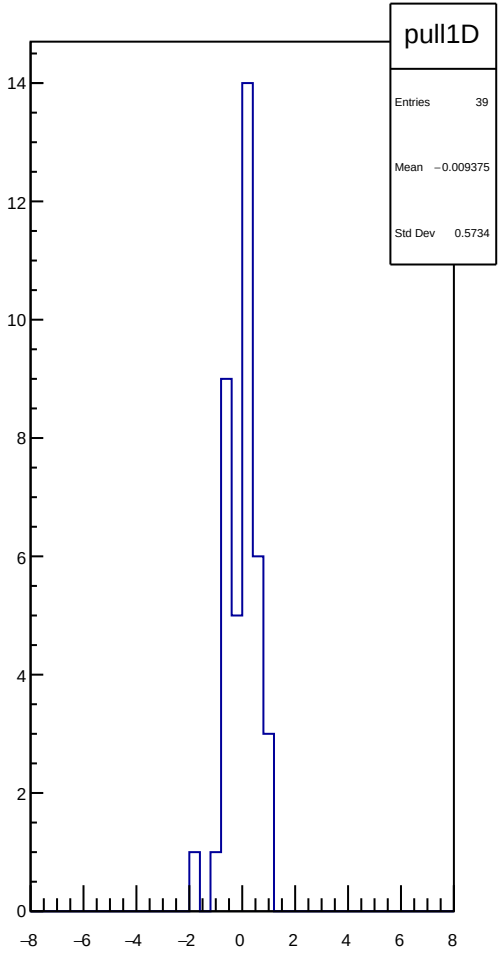

reg_asym_sam_15_dd_diff_bpm11X_slope vs run
χ² / ndf 5.287 / 38
p0 −2.188 ± 0.3785
pull
Entries 39
Mean 239.4
Std Dev 218.4

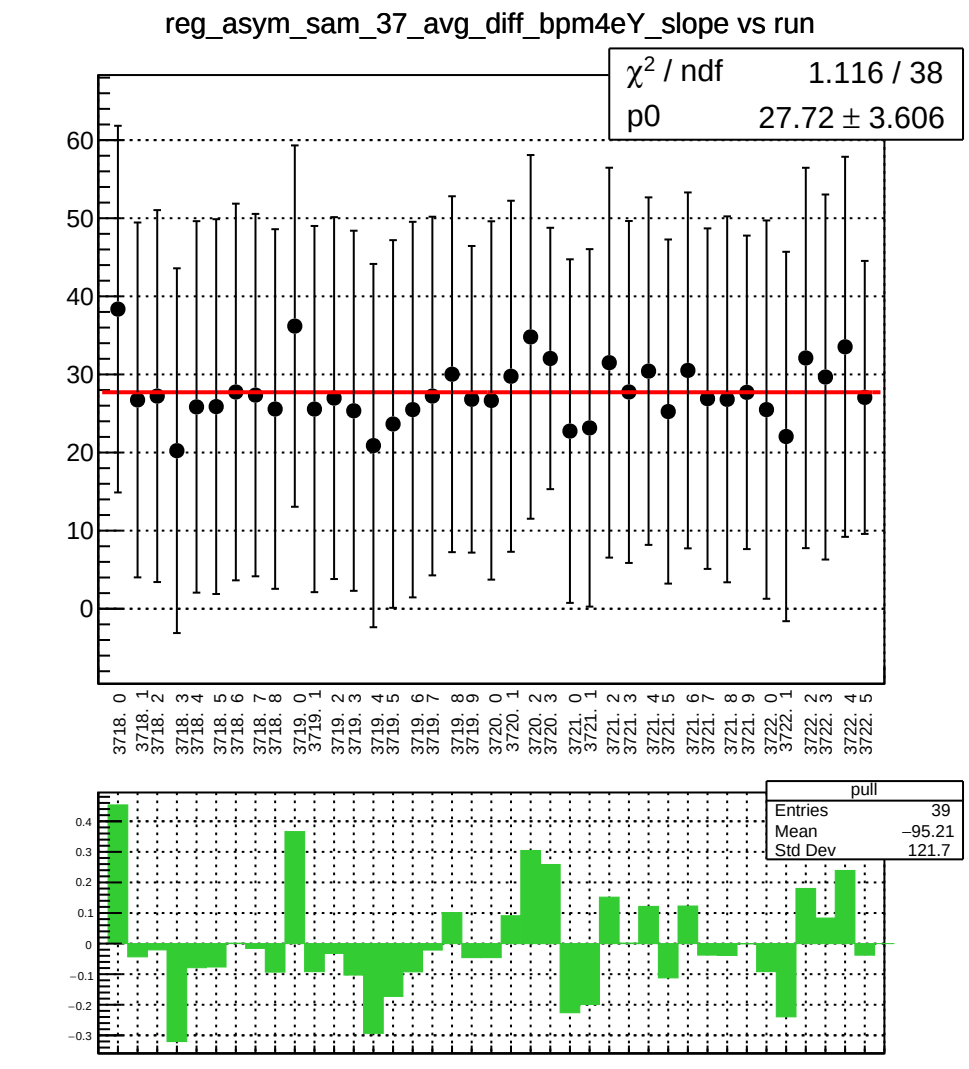

pull1D
Entries 39
Mean 0.004331
Std Dev 0.3681

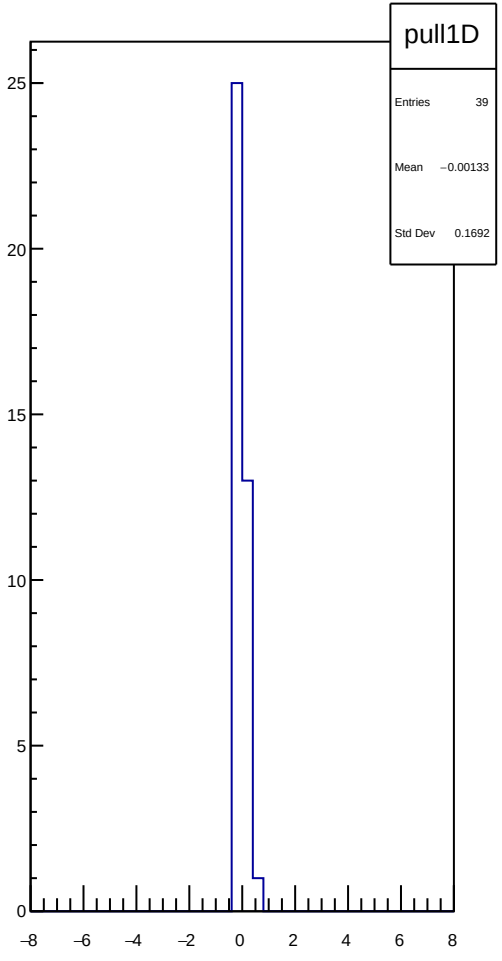

reg_asym_sam_37_avg_diff_bpm4aX_slope vs run
χ² / ndf 2.275 / 38
p0 46.11 ± 3.201
pull
Entries 39
Mean −26.62
Std Dev 34.04
pull1D
Entries 39
Mean −0.004402
Std Dev 0.2415

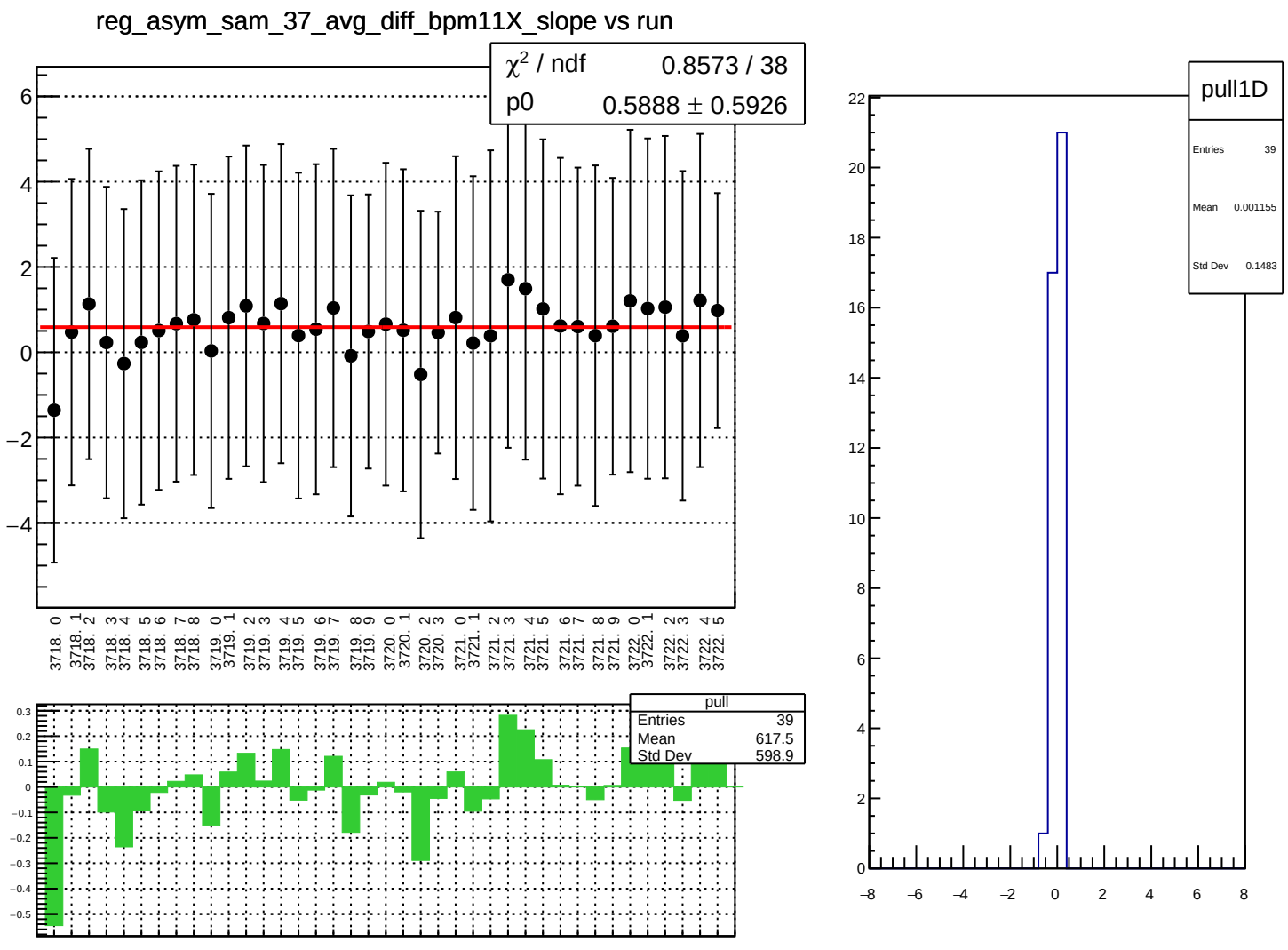

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.287 / 38
p0 −21.67 ± 2.314
0
−10
−20
−30
−40
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −24.11
Std Dev 70.67
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 39
Mean 0.0008974
Std Dev 0.1816
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

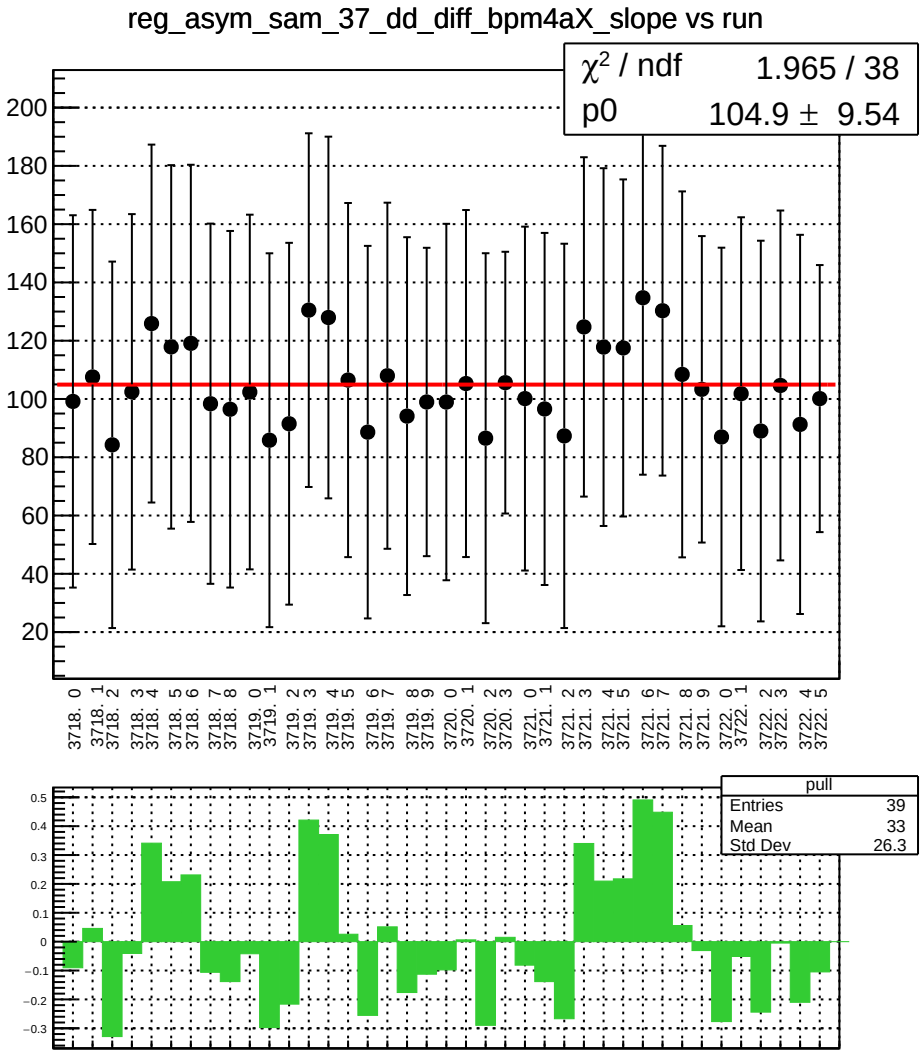

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 12.83 / 38
p0 −194.1 ± 0.6272
−185
−190
−195
−200
−205
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 171.9
Std Dev 147.3
1
0.5
0
−0.5
−1
−1.5
−2

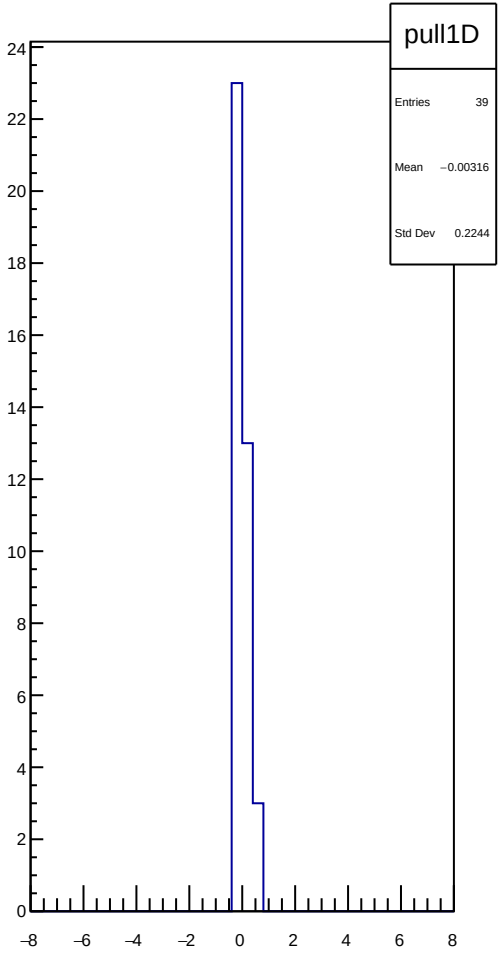

pull1D
Entries 39
Mean −0.009375
Std Dev 0.5734
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

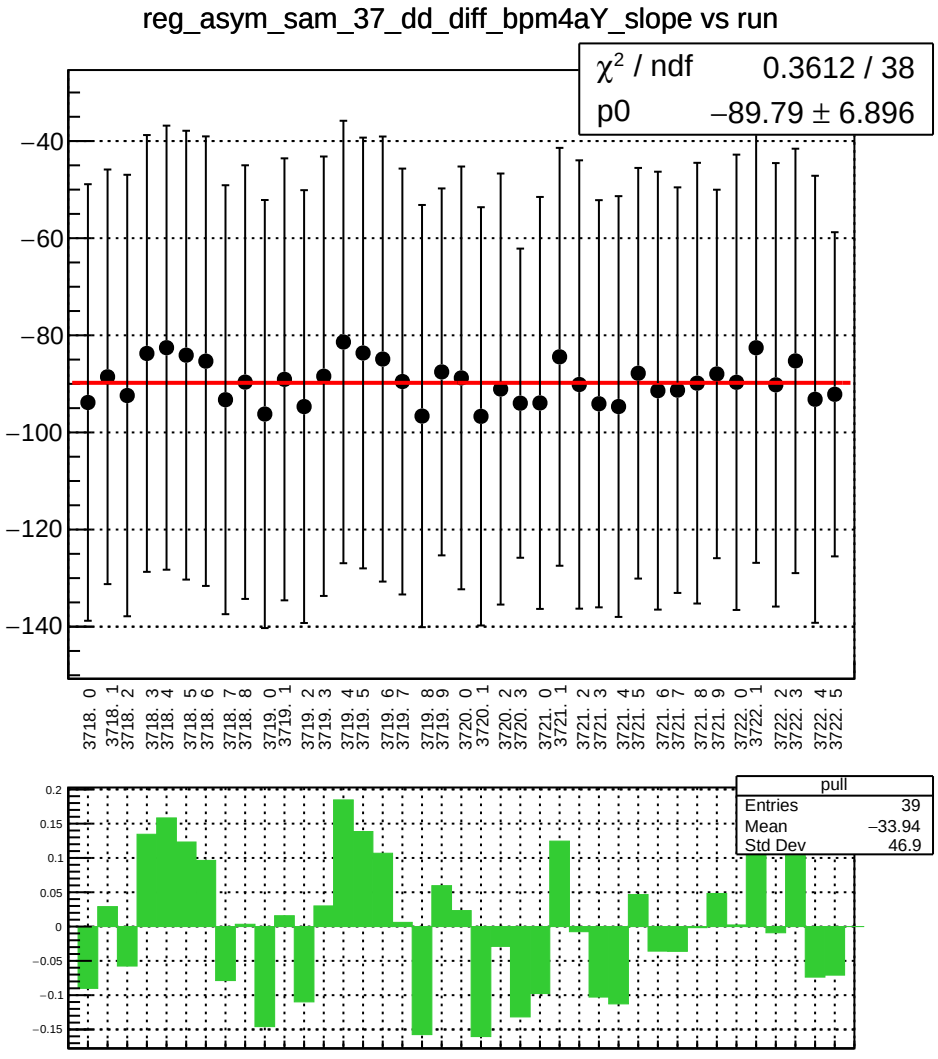

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.116 / 38
p0 27.72 ± 3.606
pull
Entries 39
Mean −95.21
Std Dev 121.7

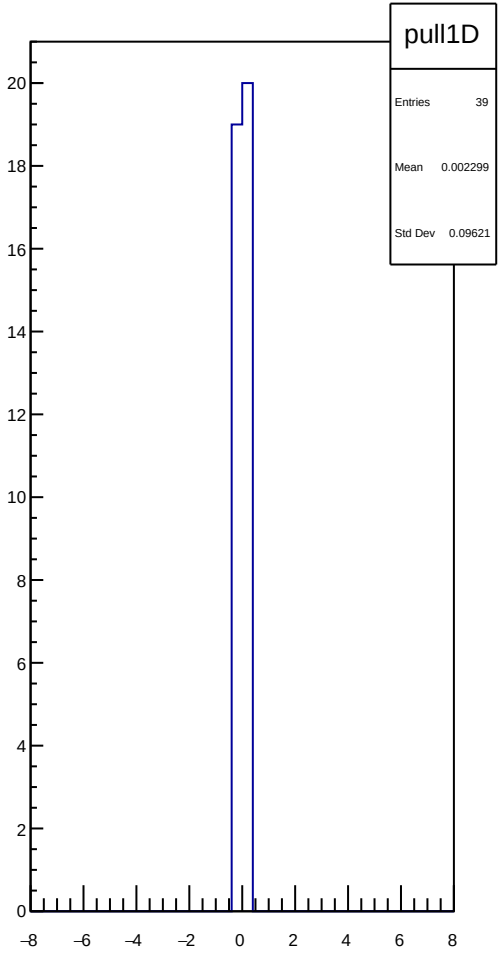

pull1D
Entries 39
Mean −0.00133
Std Dev 0.1692

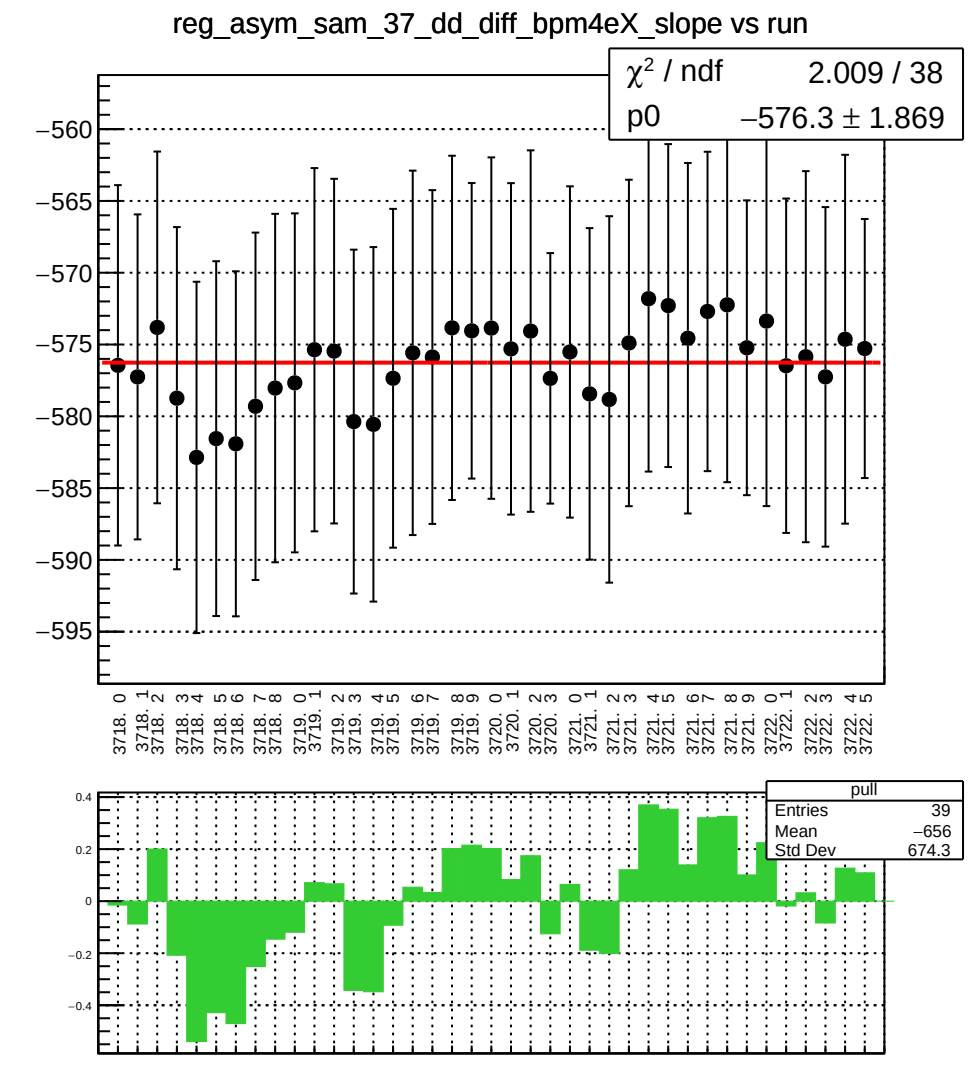

reg_asym_sam_37_avg_diff_bpm11X_slope vs run
χ² / ndf 0.8573 / 38
p0 0.5888 ± 0.5926
pull
Entries 39
Mean 617.5
Std Dev 598.9
pull1D
Entries 39
Mean 0.001155
Std Dev 0.1483

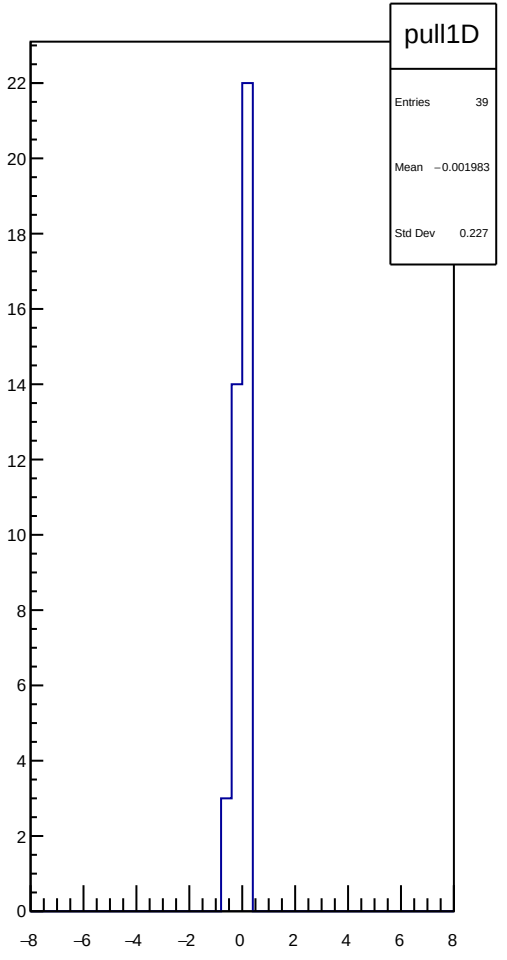

reg_asym_sam_37_dd_diff_bpm4aX_slope vs run
χ² / ndf 1.965 / 38
p0 104.9 ± 9.54
pull
Entries 39
Mean 33
Std Dev 26.3

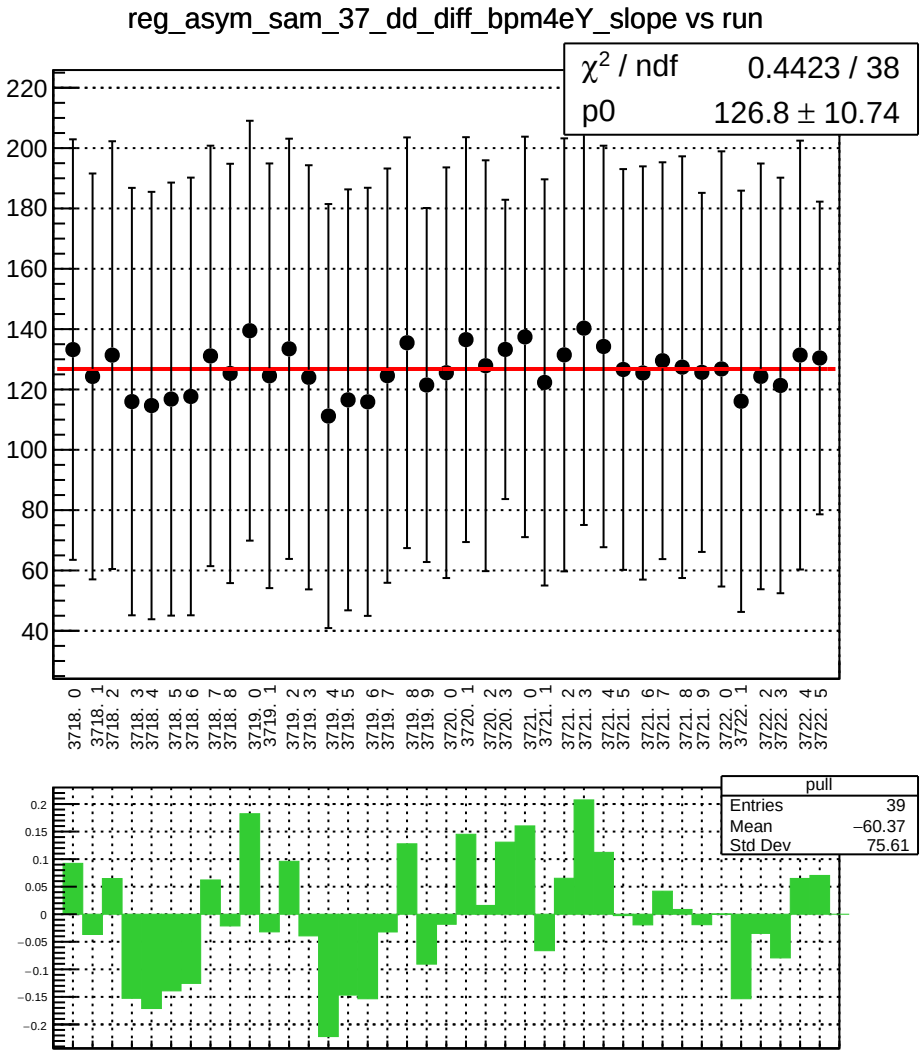

pull1D
Entries 39
Mean −0.00316
Std Dev 0.2244

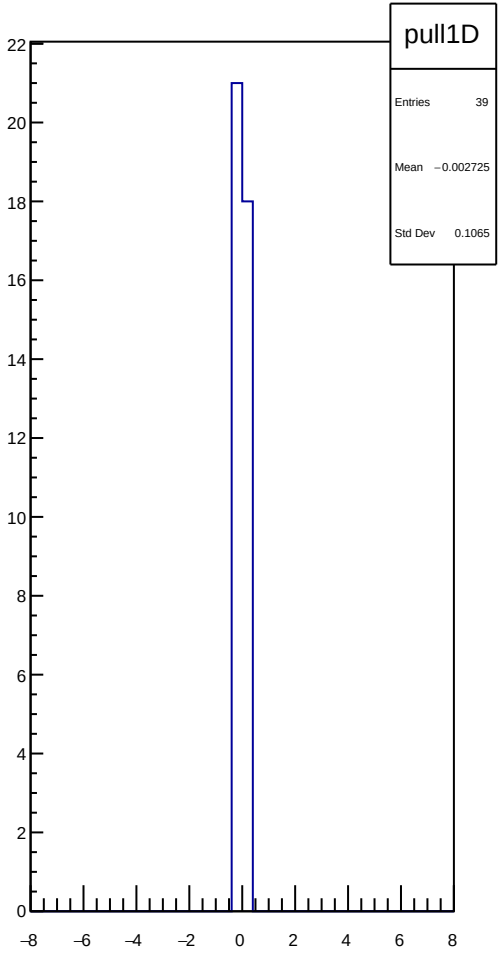

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.3612 / 38
p0 −89.79 ± 6.896
pull
Entries 39
Mean −33.94
Std Dev 46.9

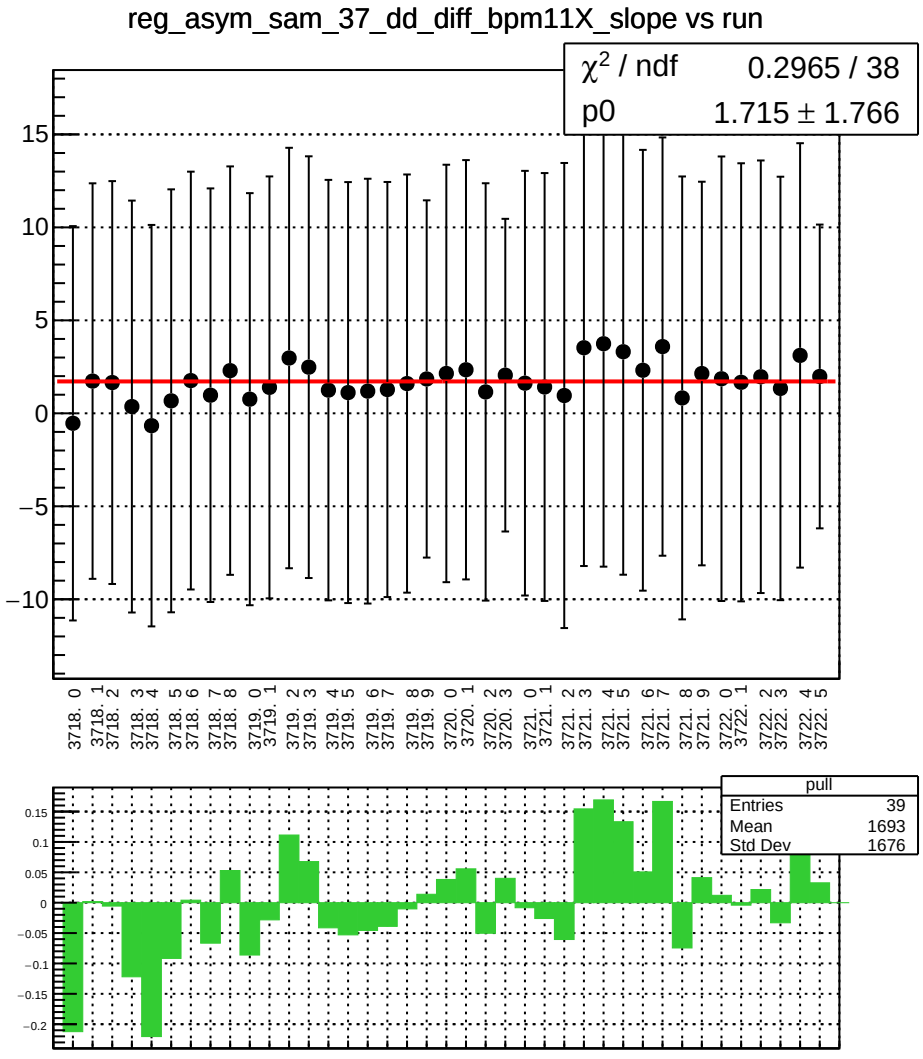

pull1D
Entries 39
Mean 0.002299
Std Dev 0.09621

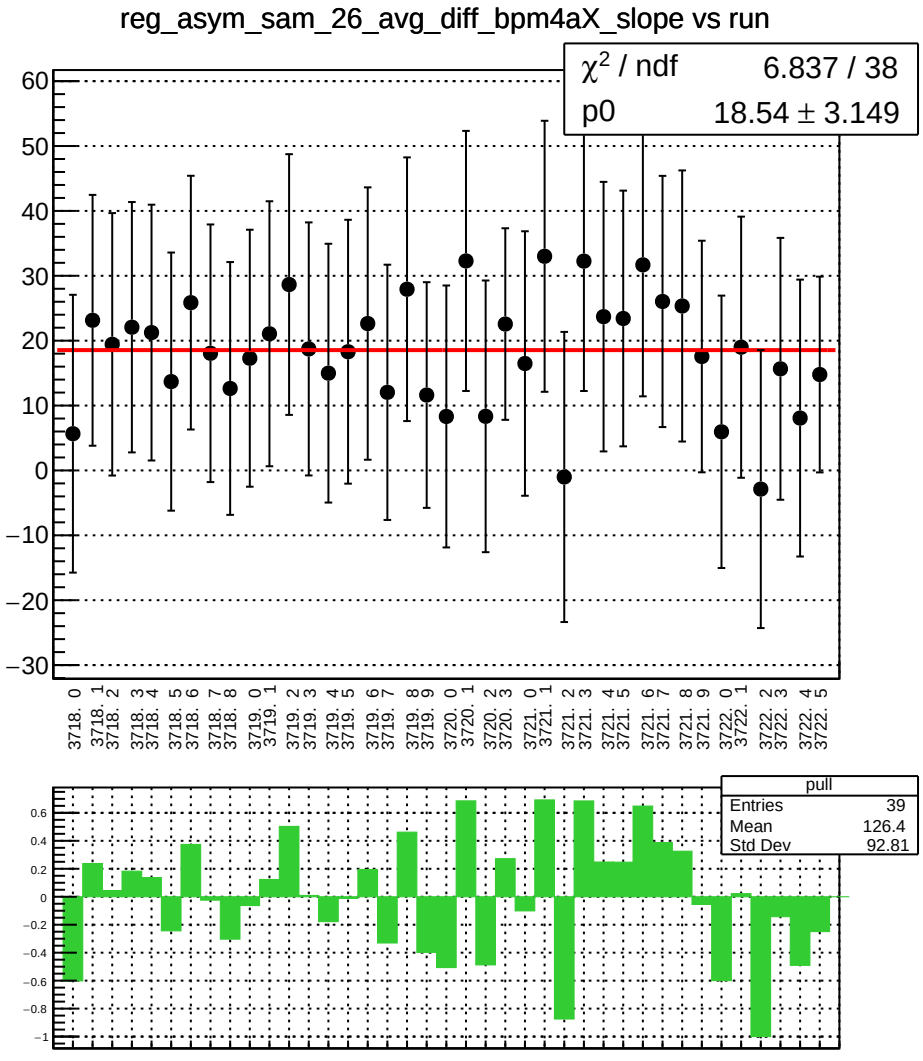

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.009 / 38
p0 −576.3 ± 1.869
−560
−565
−570
−575
−580
−585
−590
−595
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −656
Std Dev 674.3
0.4
0.2
0
−0.2
−0.4

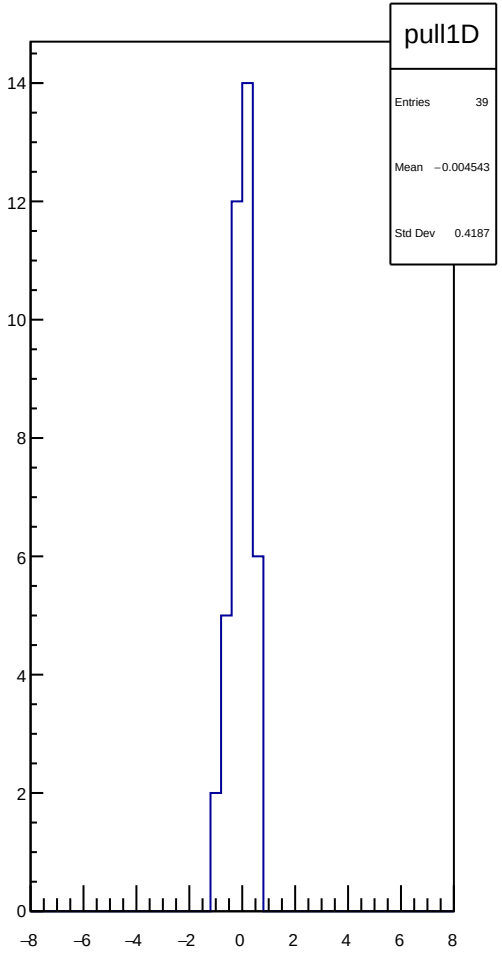

pull1D
Entries 39
Mean −0.001983
Std Dev 0.227
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

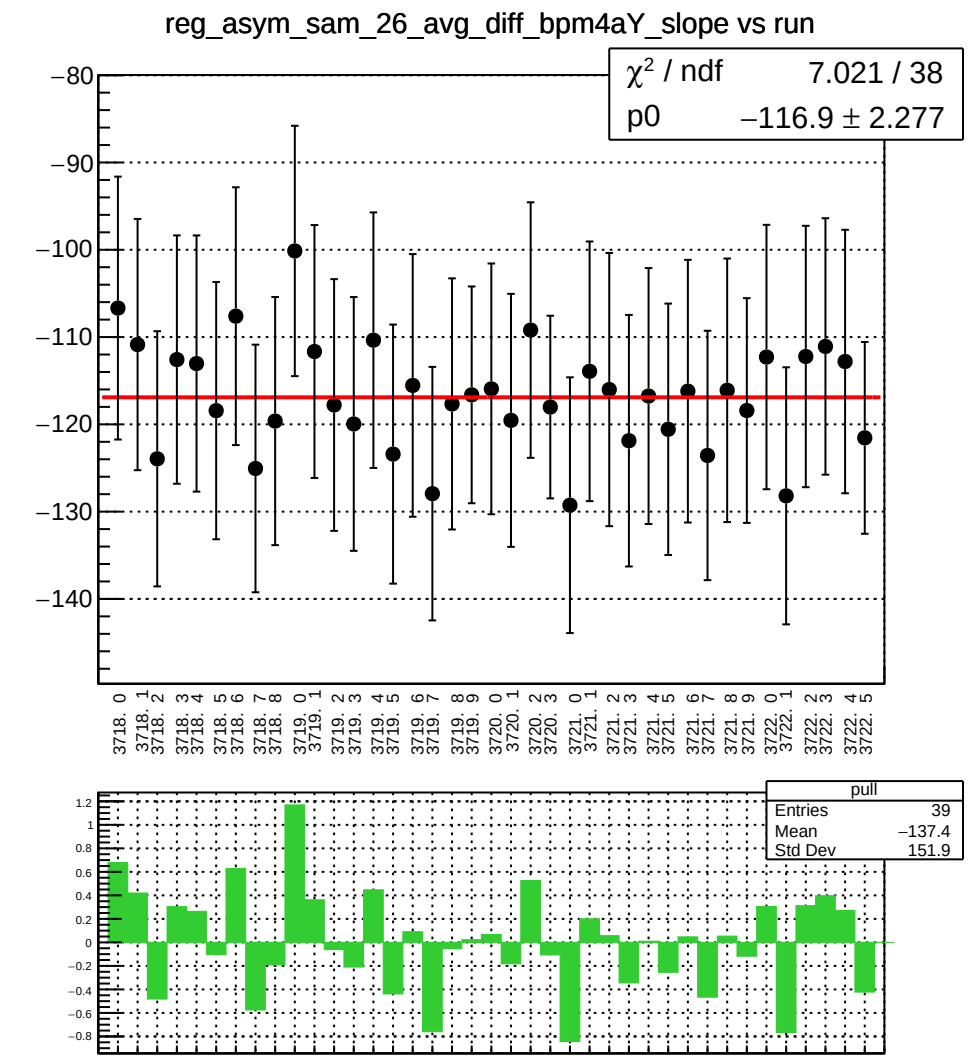

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.4423 / 38
p0 126.8 ± 10.74
pull
Entries 39
Mean −60.37
Std Dev 75.61

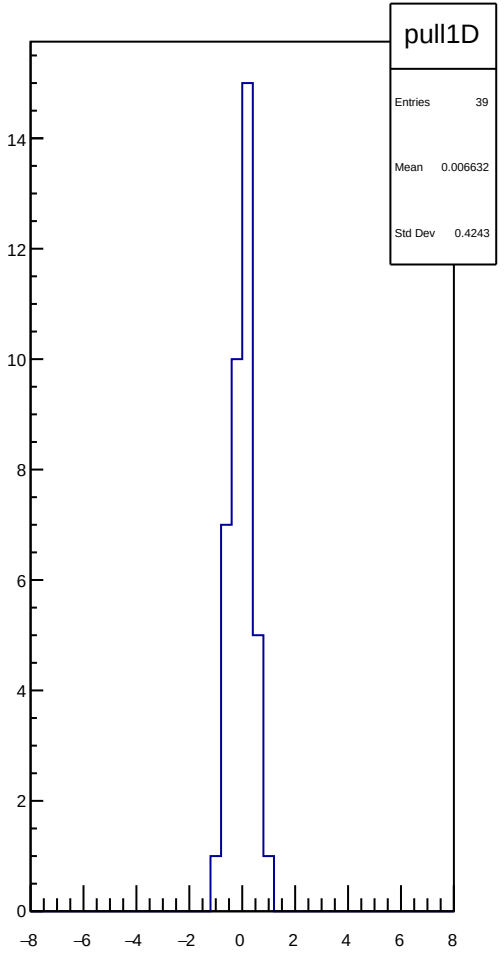

pull1D
Entries 39
Mean −0.002725
Std Dev 0.1065

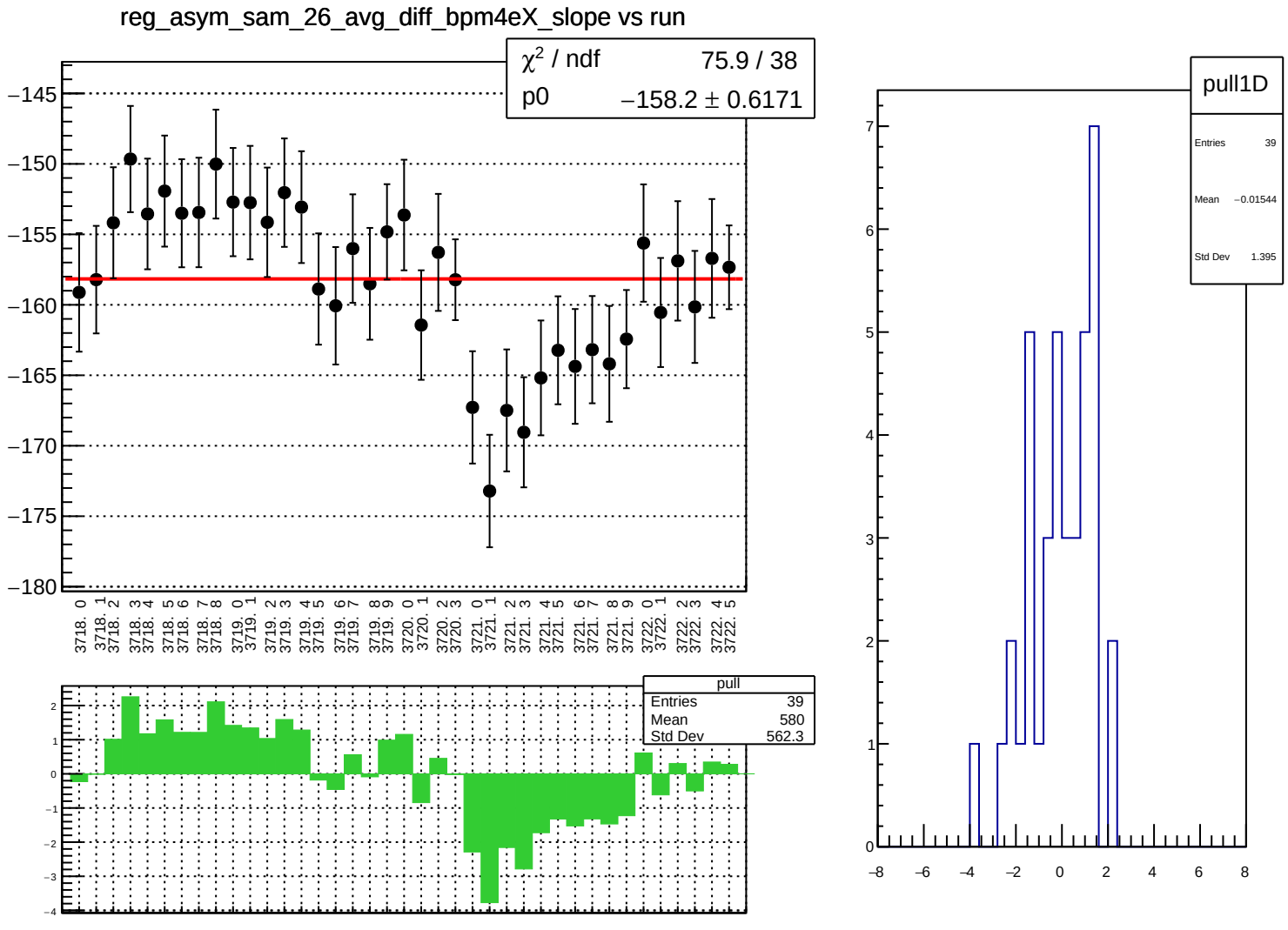

reg_asym_sam_37_dd_diff_bpm11X_slope vs run
χ² / ndf 0.2965 / 38
p0 1.715 ± 1.766
15
10
5
0
−5
−10
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 1693
Std Dev 1676
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
pull1D
Entries 39
Mean 0.000295
Std Dev 0.0872
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

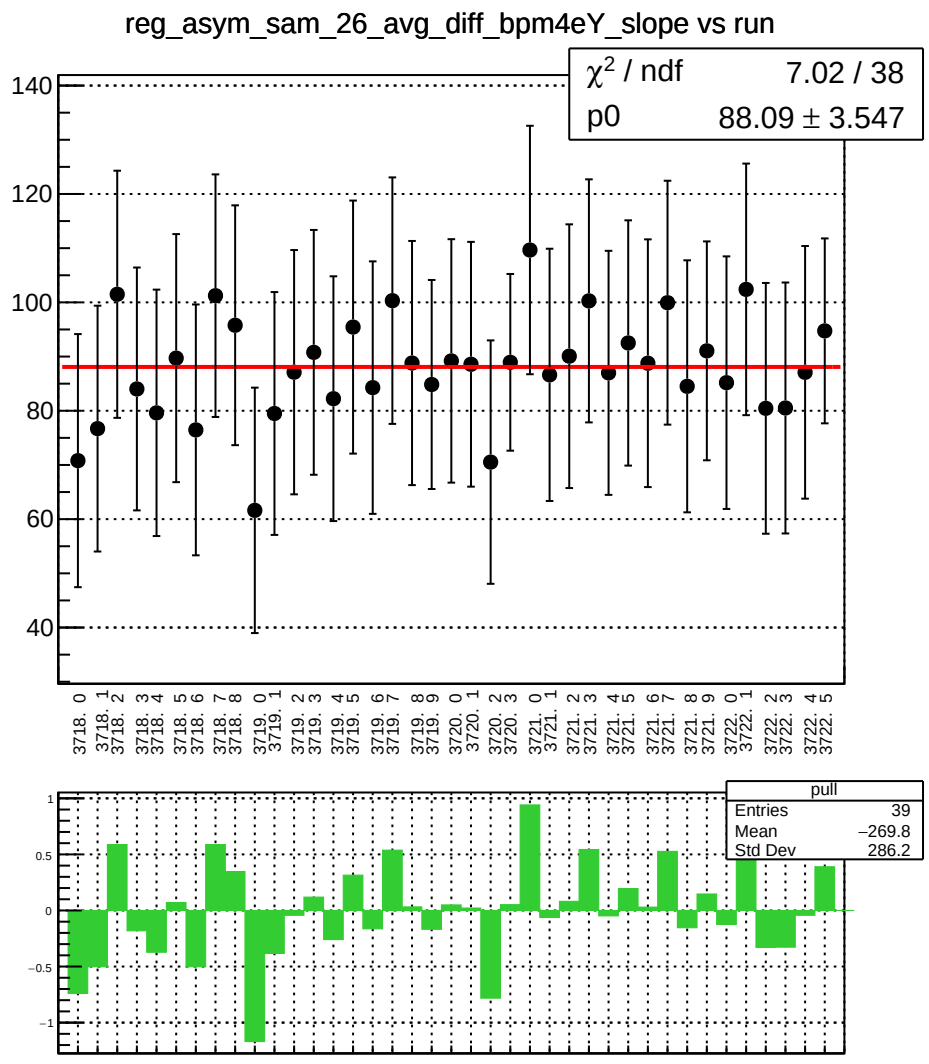

reg_asym_sam_26_avg_diff_bpm4aX_slope vs run
χ² / ndf 6.837 / 38
p0 18.54 ± 3.149
pull
Entries 39
Mean 126.4
Std Dev 92.81

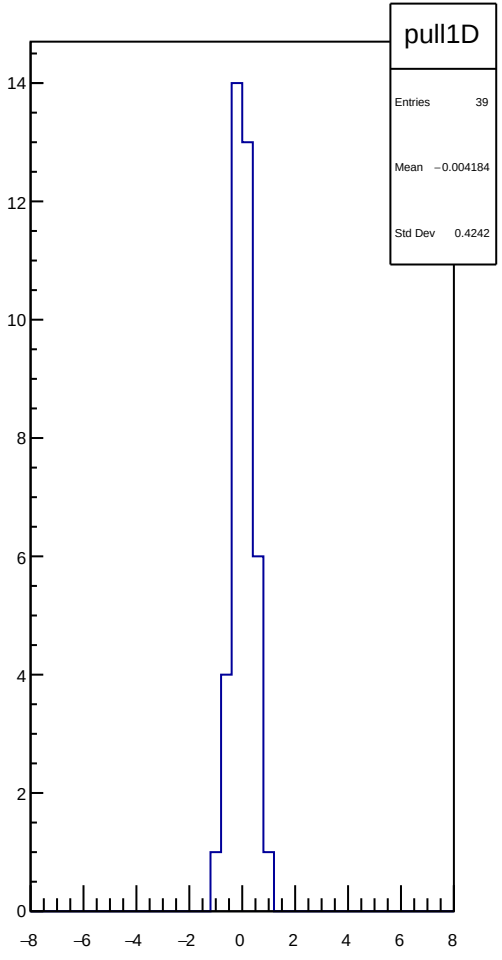

pull1D
Entries 39
Mean −0.004543
Std Dev 0.4187

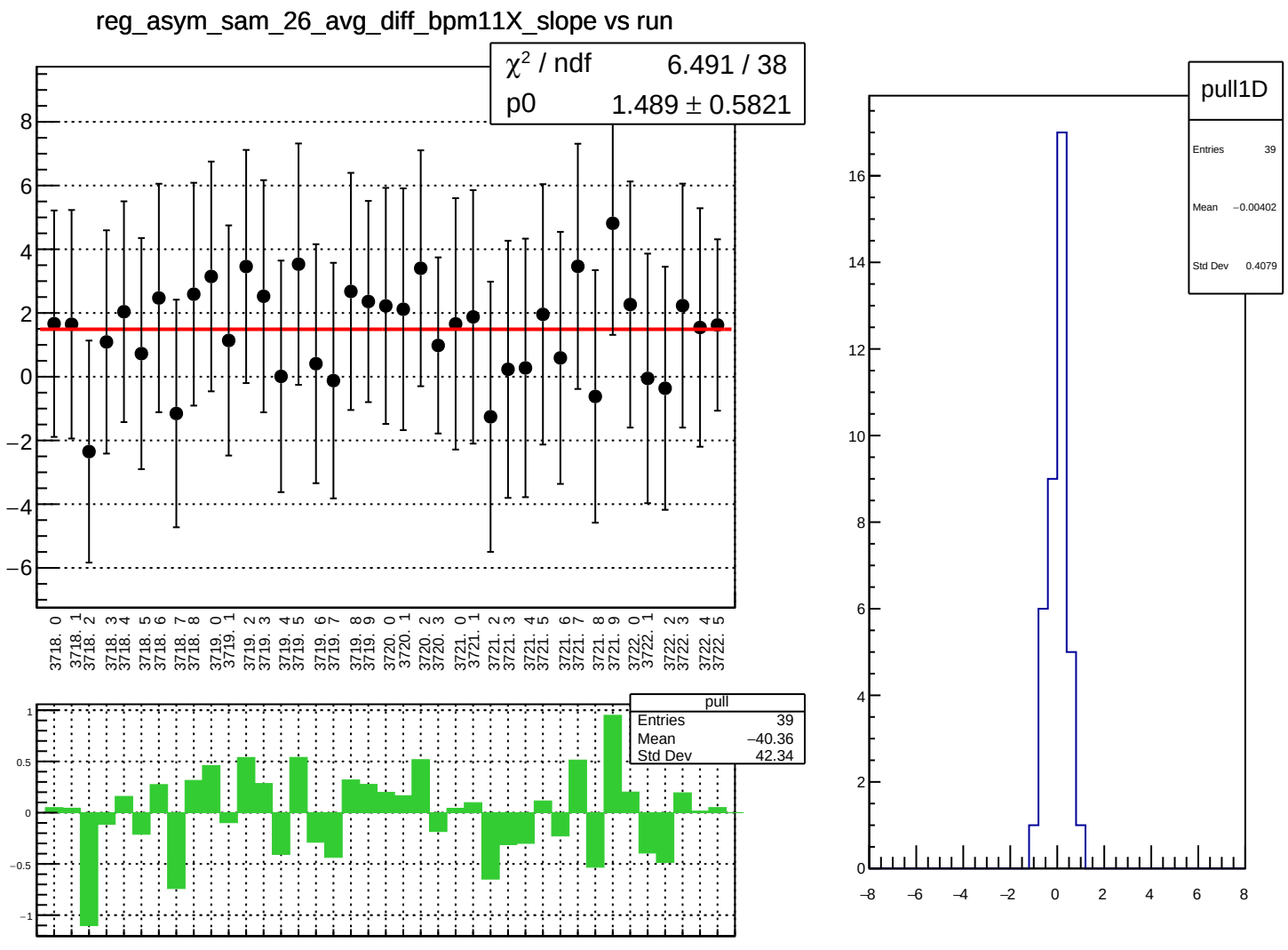

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.021 / 38
p0 −116.9 ± 2.277
pull
Entries 39
Mean −137.4
Std Dev 151.9

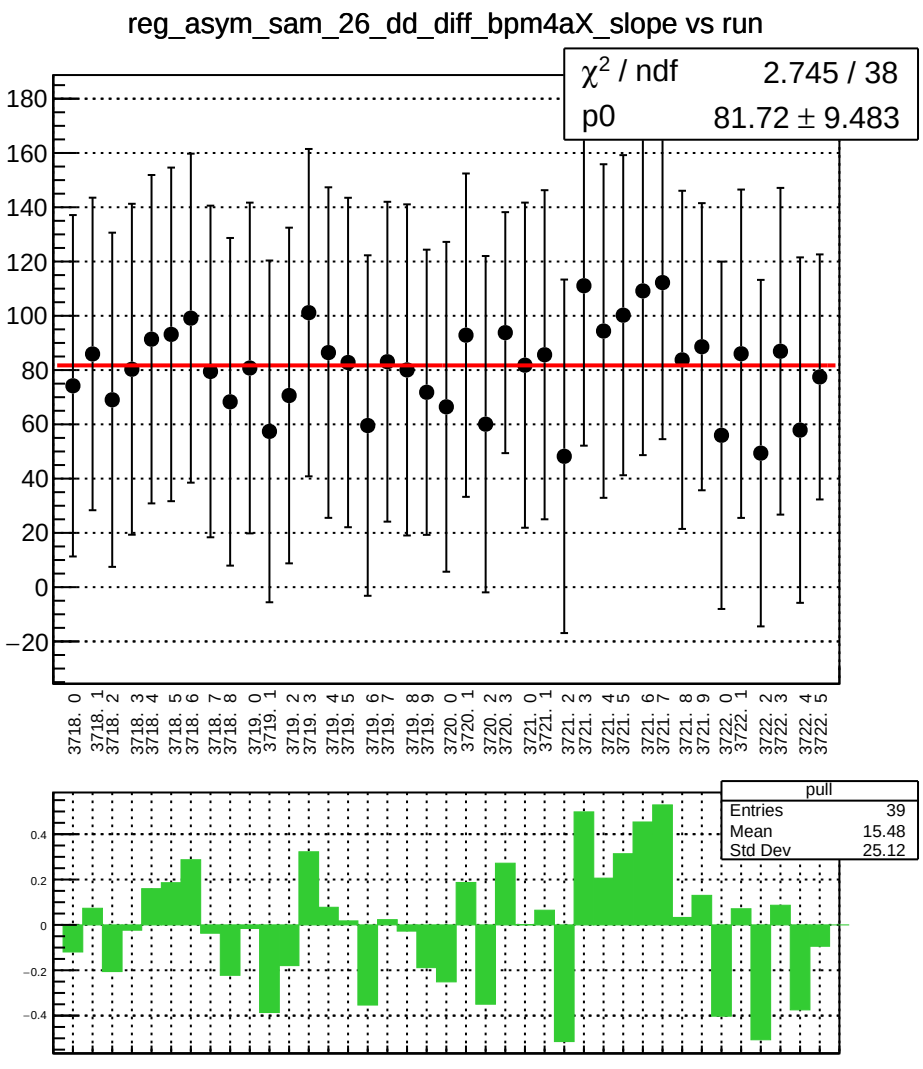

pull1D
Entries 39
Mean 0.006632
Std Dev 0.4243

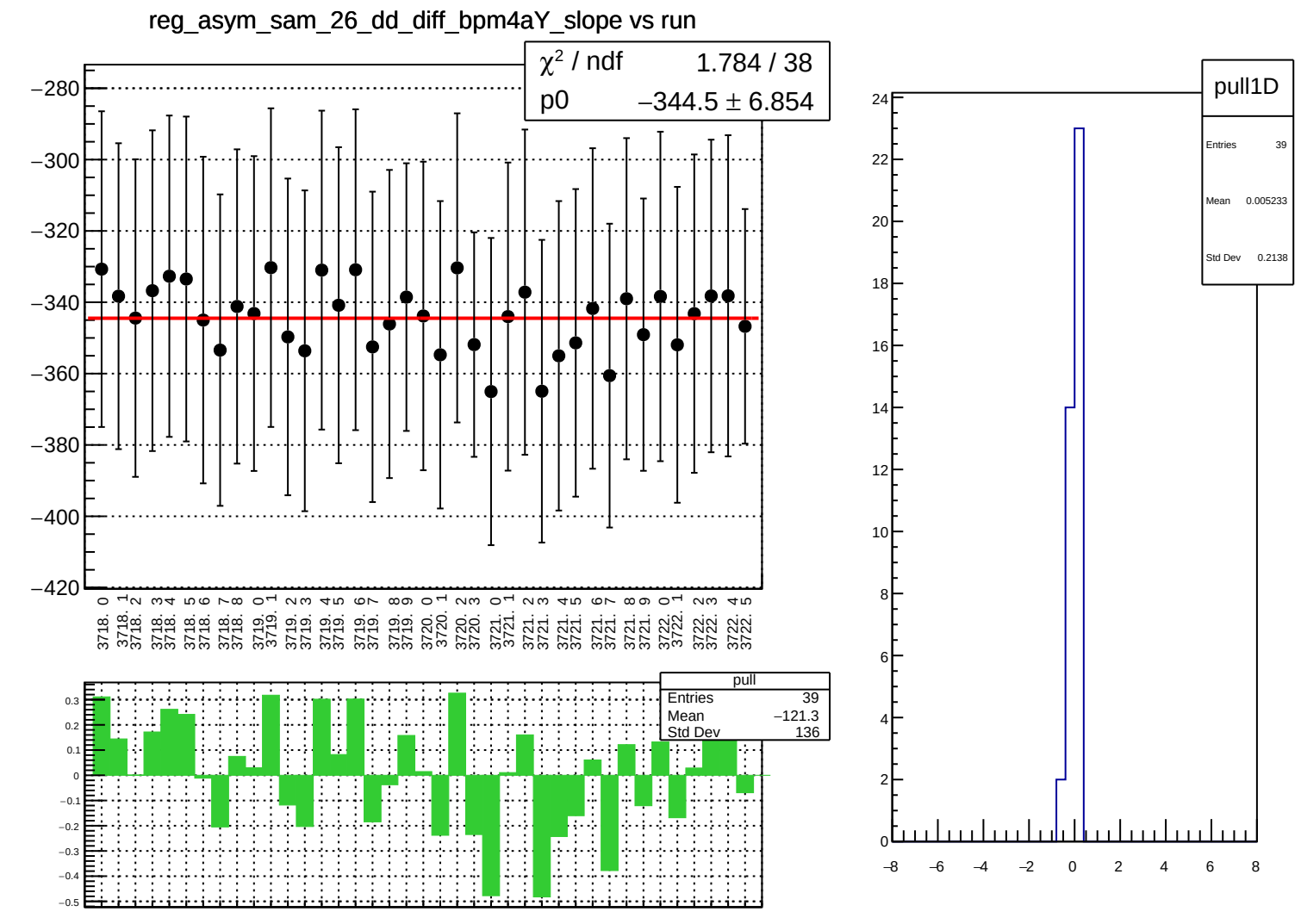

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 75.9 / 38
p0 −158.2 ± 0.6171
pull
Entries 39
Mean 580
Std Dev 562.3
pull1D
Entries 39
Mean −0.01544
Std Dev 1.395

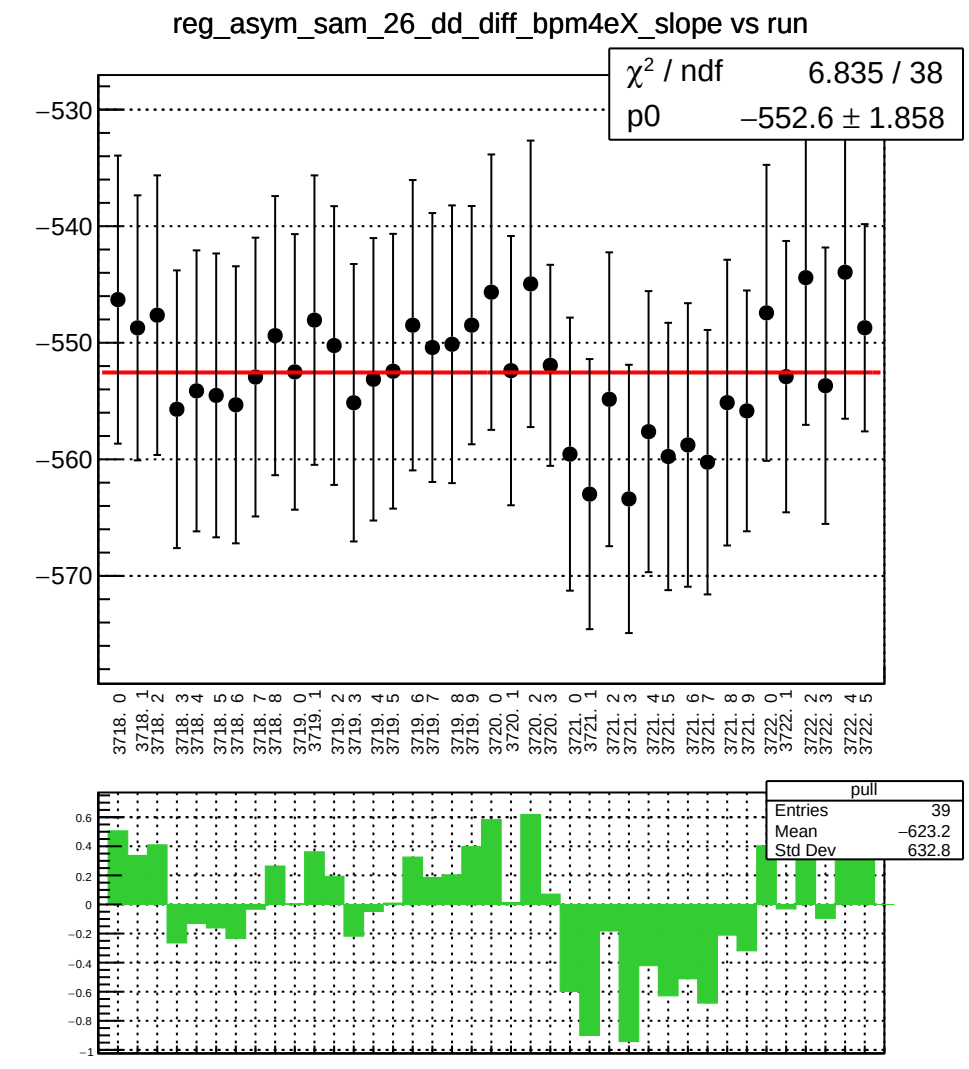

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.02 / 38
p0 88.09 ± 3.547
140
120
100
80
60
40
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −269.8
Std Dev 286.2
1
0.5
0
−0.5
−1

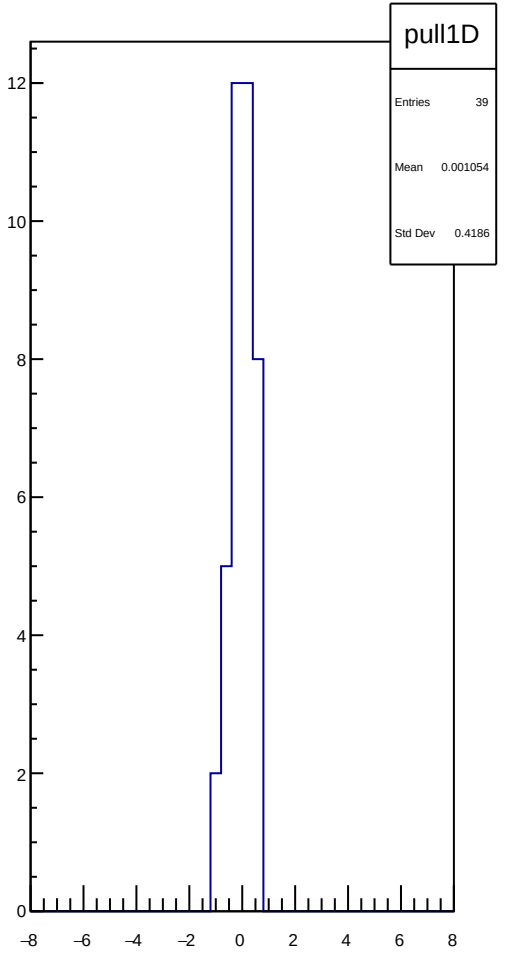

pull1D
Entries 39
Mean −0.004184
Std Dev 0.4242
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

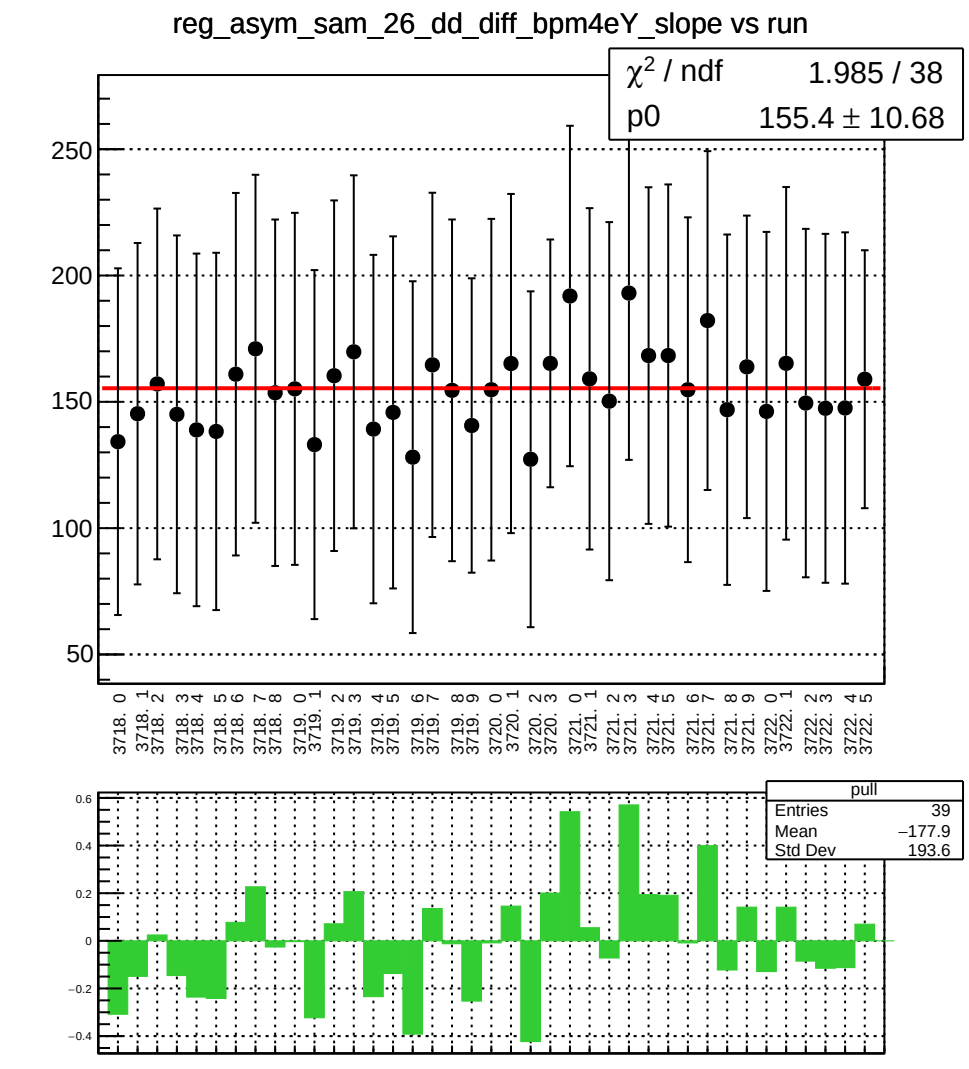

reg_asym_sam_26_avg_diff_bpm11X_slope vs run
χ² / ndf 6.491 / 38
p0 1.489 ± 0.5821
pull
Entries 39
Mean −40.36
Std Dev 42.34
pull1D
Entries 39
Mean −0.00402
Std Dev 0.4079

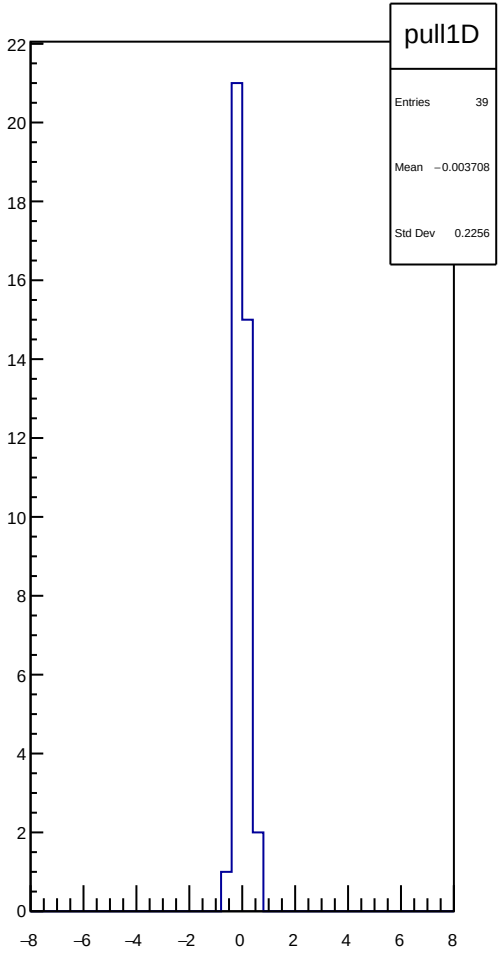

reg_asym_sam_26_dd_diff_bpm4aX_slope vs run
χ² / ndf 2.745 / 38
p0 81.72 ± 9.483
180
160
140
120
100
80
60
40
20
0
−20
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 15.48
Std Dev 25.12
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 39
Mean −0.006591
Std Dev 0.2652
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

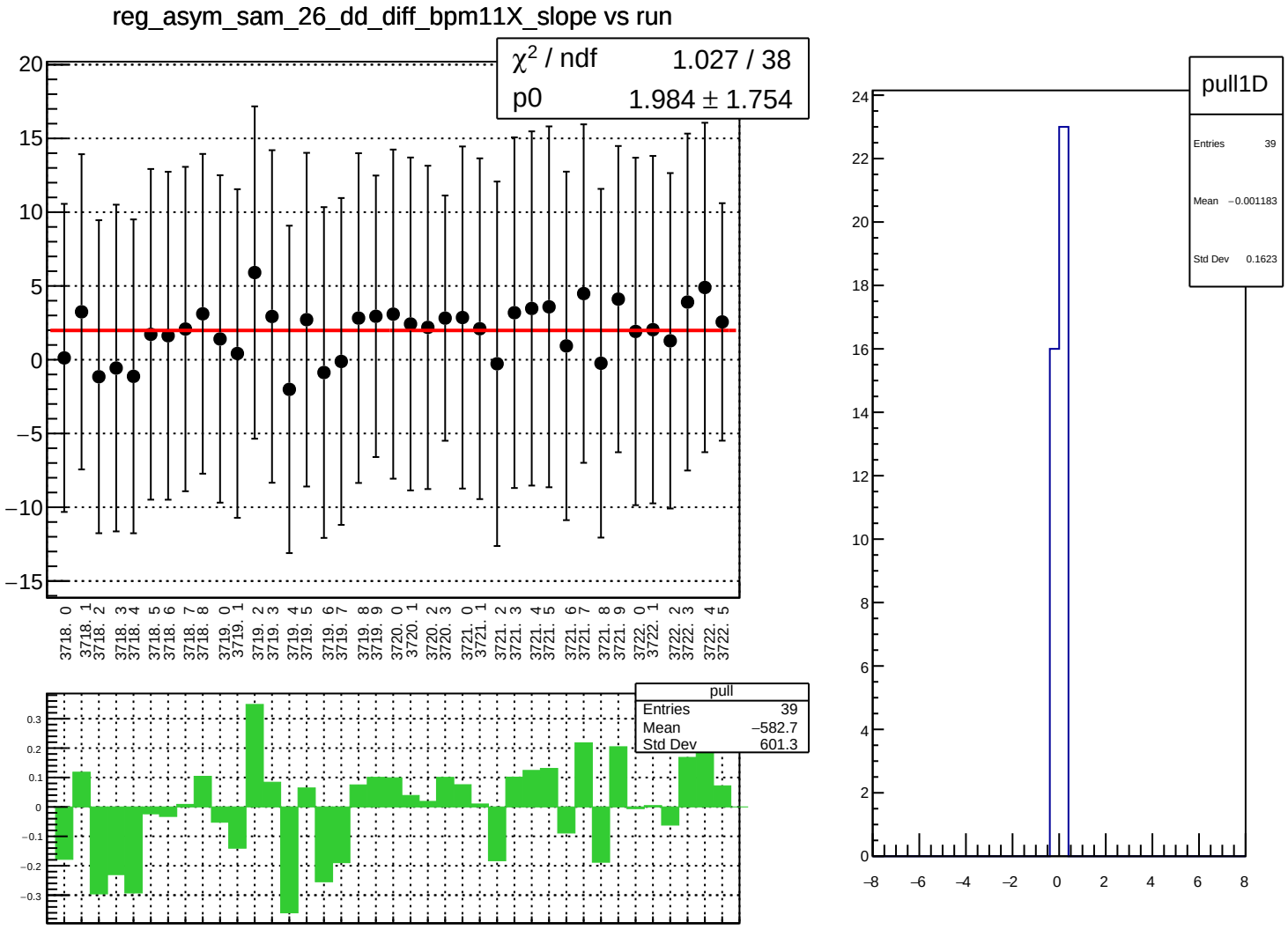

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.784 / 38
p0 −344.5 ± 6.854
pull
Entries 39
Mean −121.3
Std Dev 136
pull1D
Entries 39
Mean 0.005233
Std Dev 0.2138

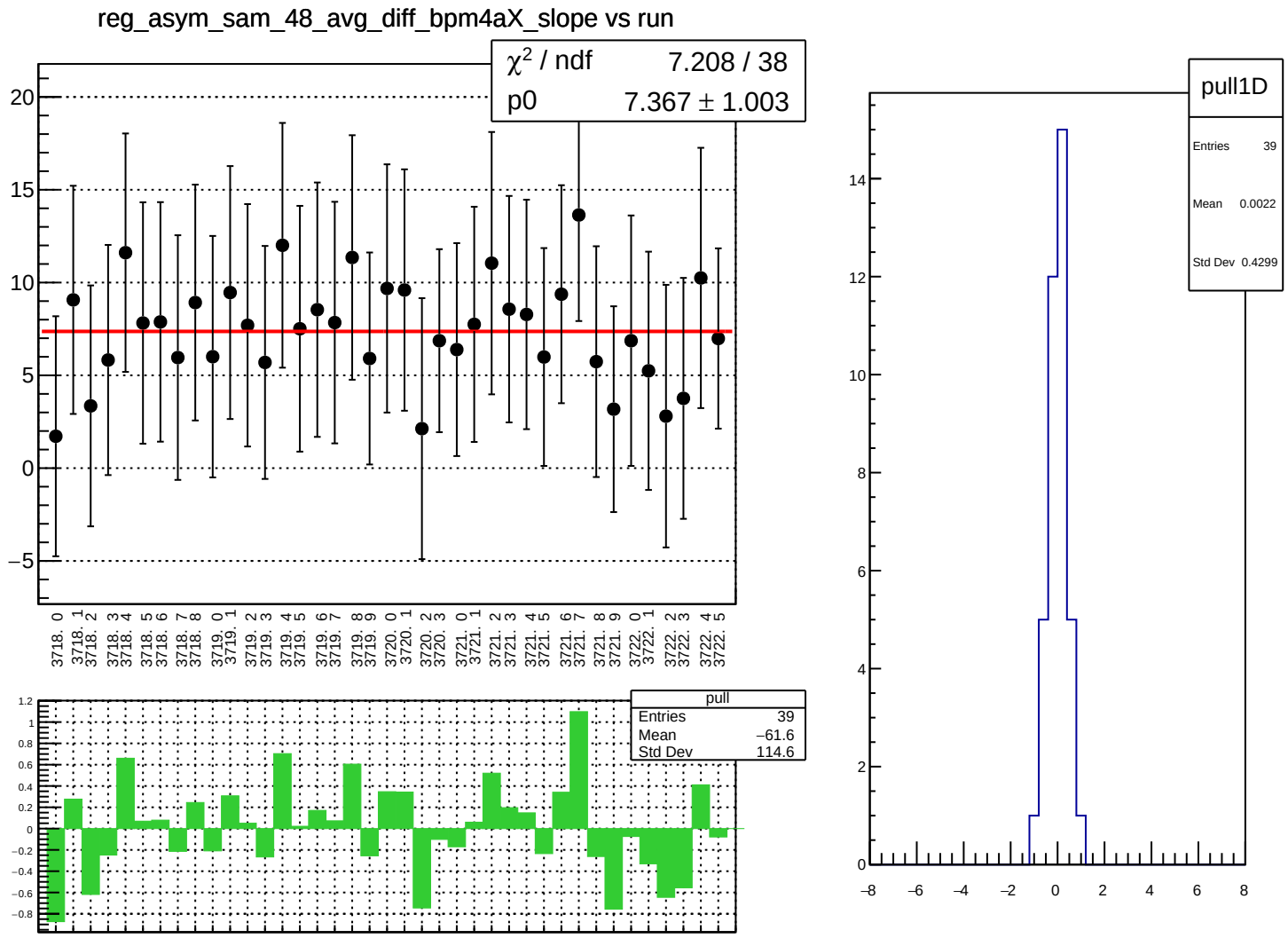

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.835 / 38
p0 −552.6 ± 1.858
−530
−540
−550
−560
−570
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −623.2
Std Dev 632.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

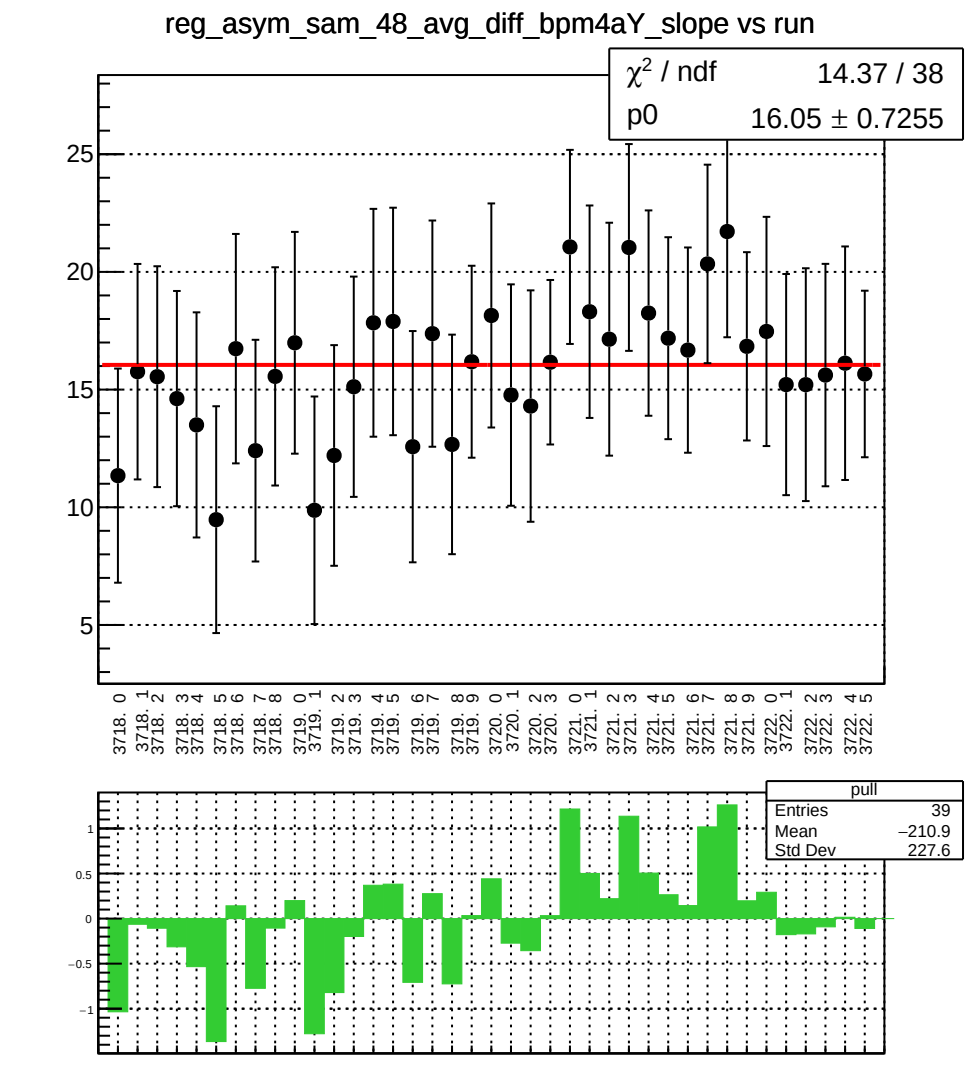

pull1D
Entries 39
Mean 0.001054
Std Dev 0.4186
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

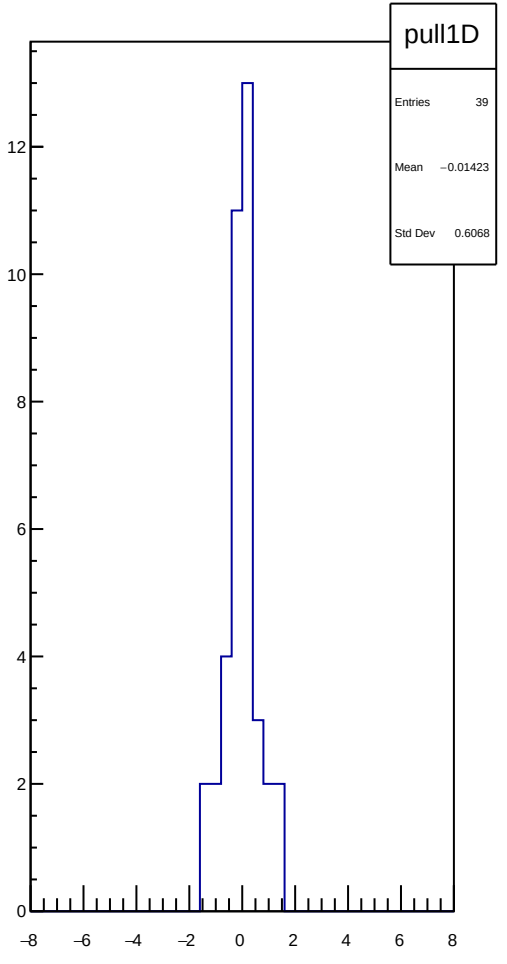

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.985 / 38
p0 155.4 ± 10.68
250
200
150
100
50
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −177.9
Std Dev 193.6
0.6
0.4
0.2
0
−0.2
−0.4

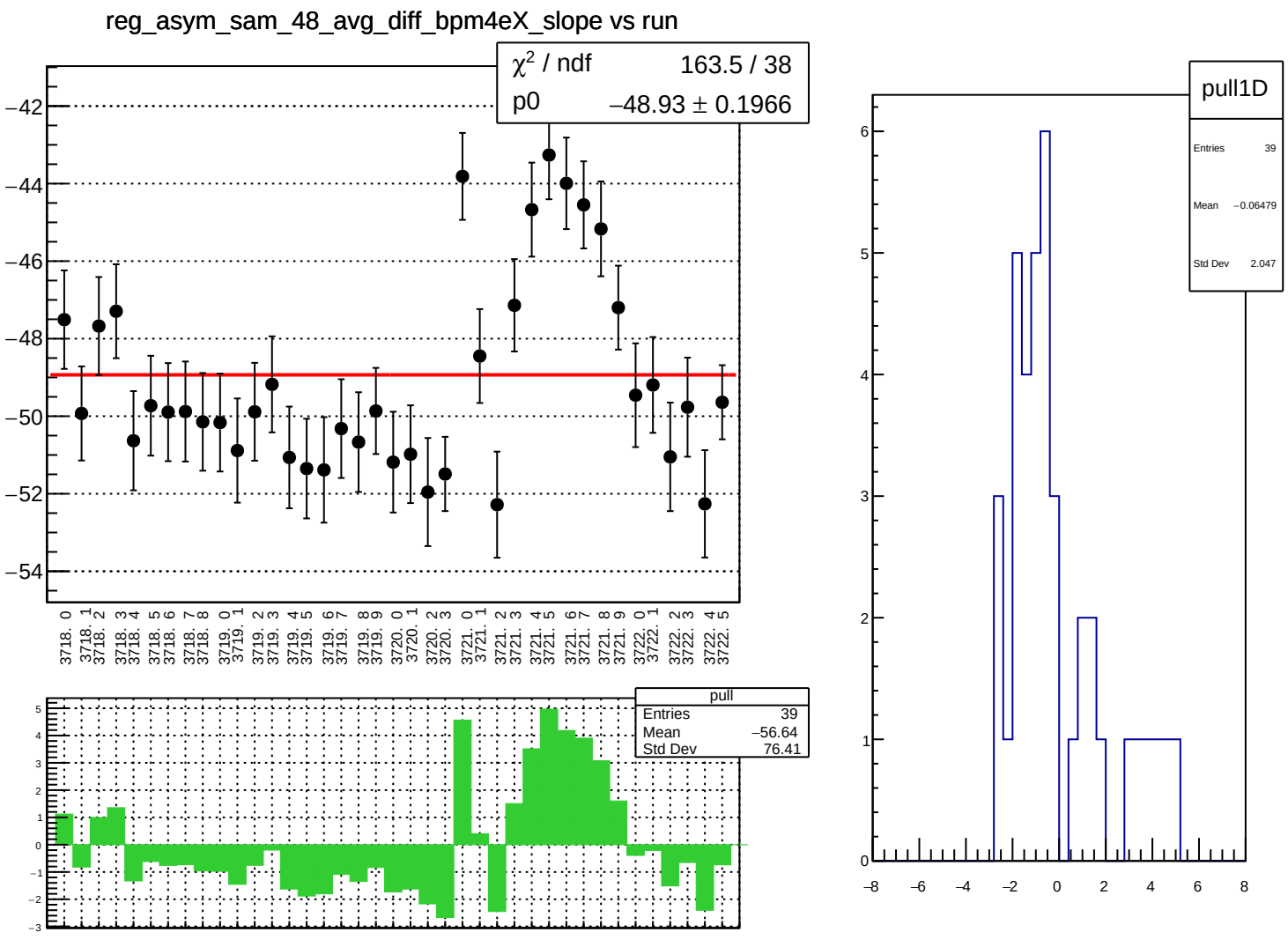

pull1D
Entries 39
Mean −0.003708
Std Dev 0.2256
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

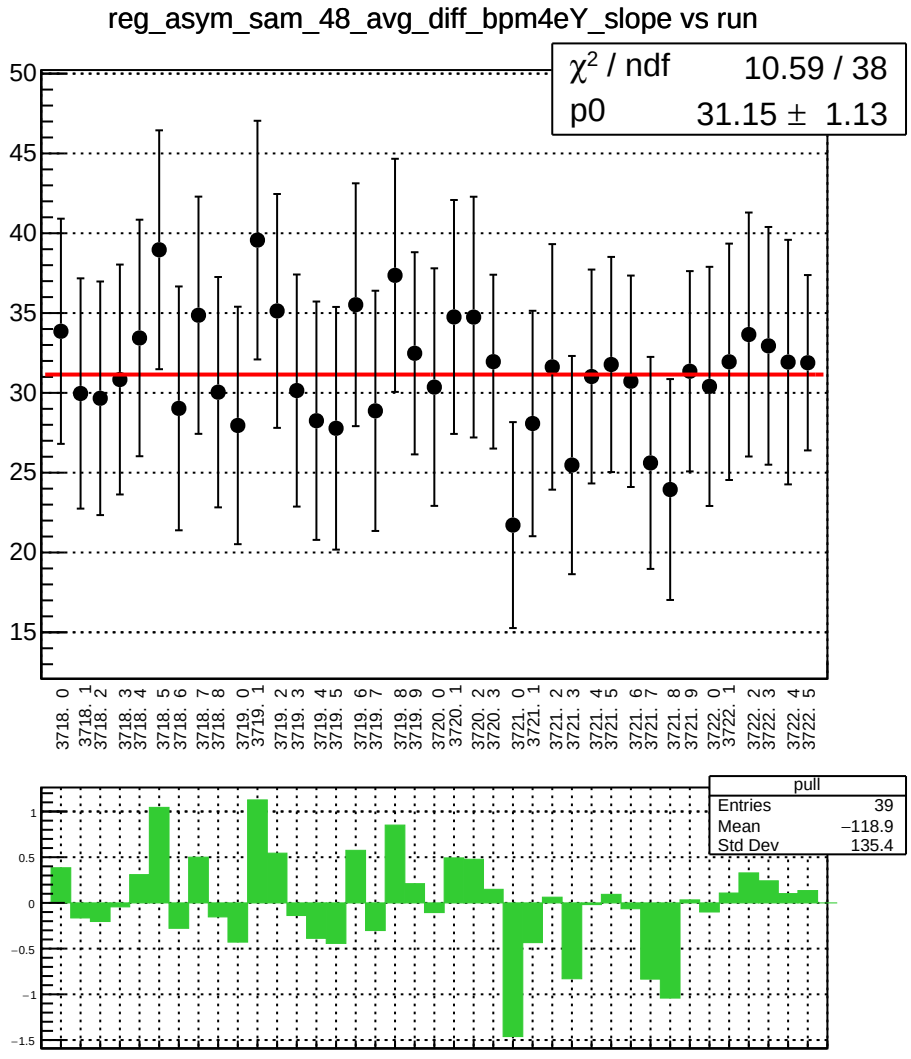

reg_asym_sam_26_dd_diff_bpm11X_slope vs run
χ² / ndf 1.027 / 38
p0 1.984 ± 1.754
pull
Entries 39
Mean −582.7
Std Dev 601.3
pull1D
Entries 39
Mean −0.001183
Std Dev 0.1623

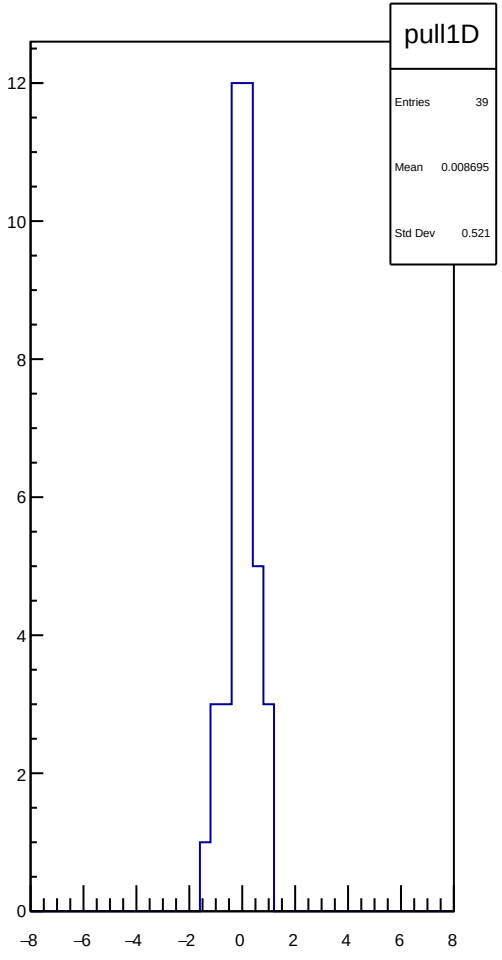

reg_asym_sam_48_avg_diff_bpm4aX_slope vs run
χ² / ndf 7.208 / 38
p0 7.367 ± 1.003
pull
Entries 39
Mean −61.6
Std Dev 114.6
pull1D
Entries 39
Mean 0.0022
Std Dev 0.4299

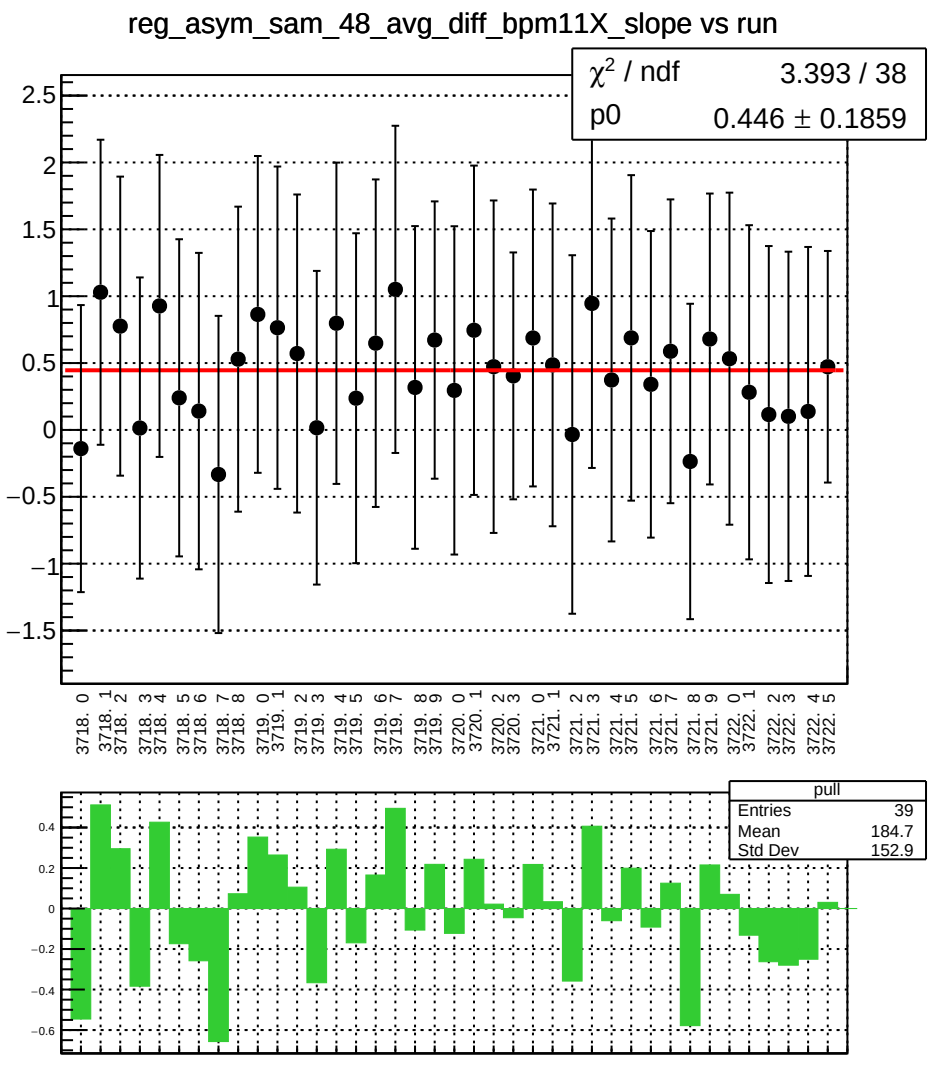

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 14.37 / 38
p0 16.05 ± 0.7255
25
20
15
10
5
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −210.9
Std Dev 227.6
1
0.5
0
−0.5
−1

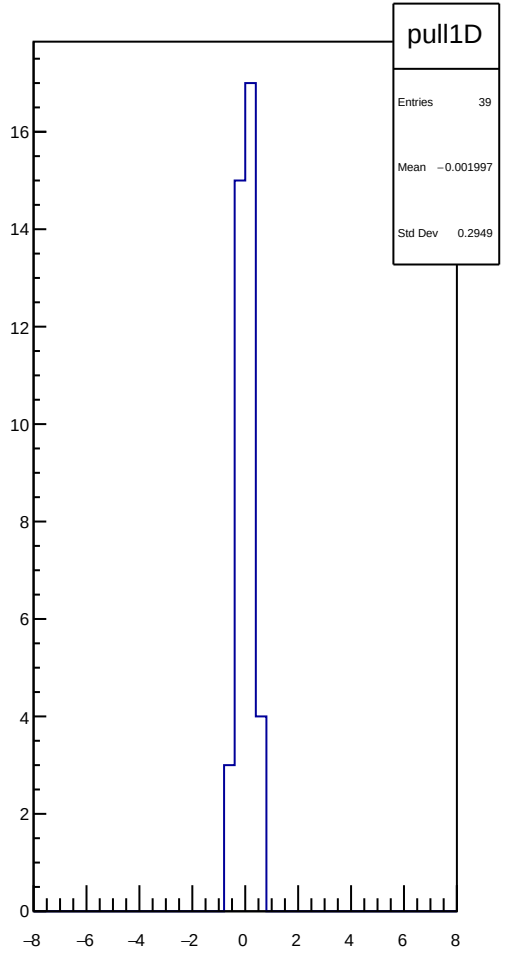

pull1D
Entries 39
Mean −0.01423
Std Dev 0.6068
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

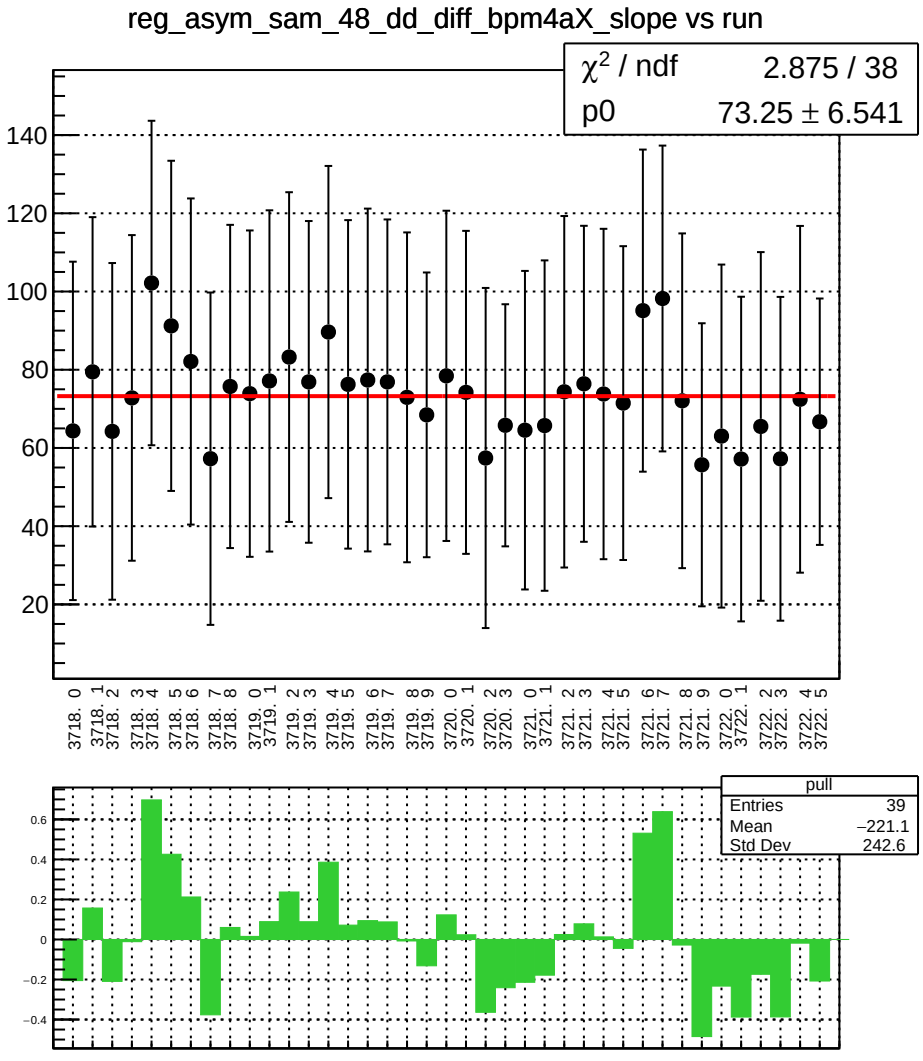

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 163.5 / 38
p0 −48.93 ± 0.1966
−42
−44
−46
−48
−50
−52
−54
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −56.64
Std Dev 76.41
pull1D
Entries 39
Mean −0.06479
Std Dev 2.047

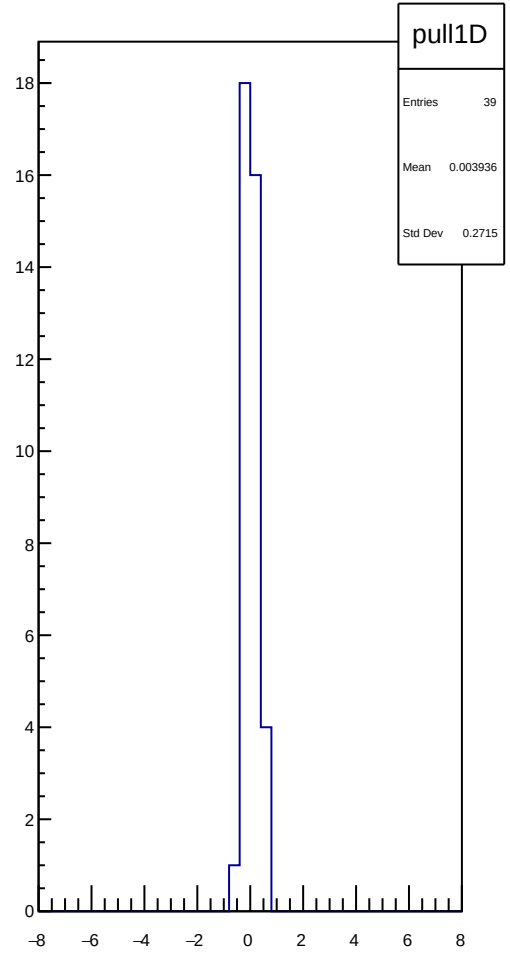

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 10.59 / 38
p0 31.15 ± 1.13
pull
Entries 39
Mean −118.9
Std Dev 135.4

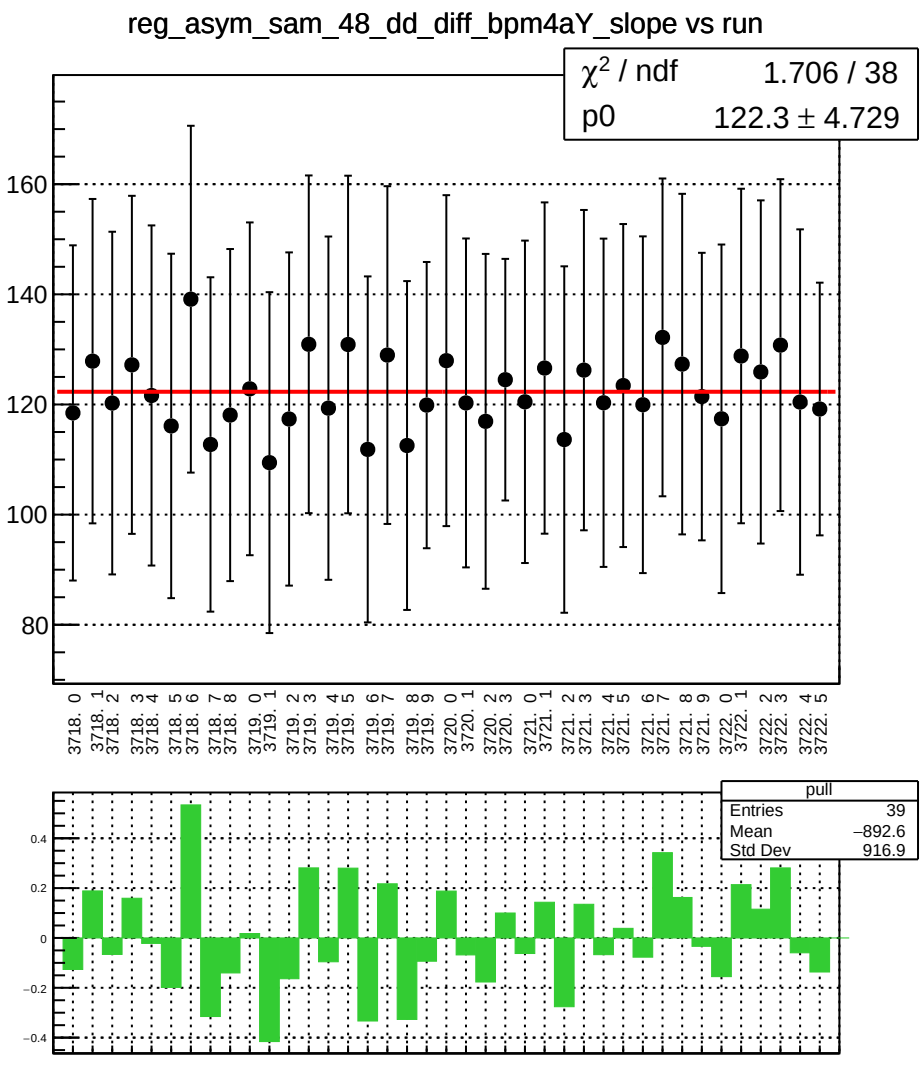

pull1D
Entries 39
Mean 0.008695
Std Dev 0.521

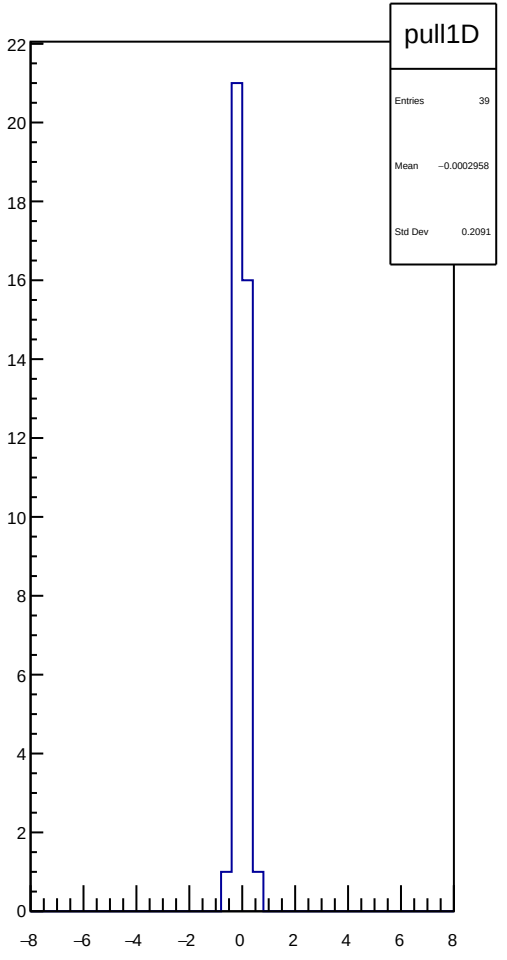

reg_asym_sam_48_avg_diff_bpm11X_slope vs run
χ² / ndf 3.393 / 38
p0 0.446 ± 0.1859
pull
Entries 39
Mean 184.7
Std Dev 152.9

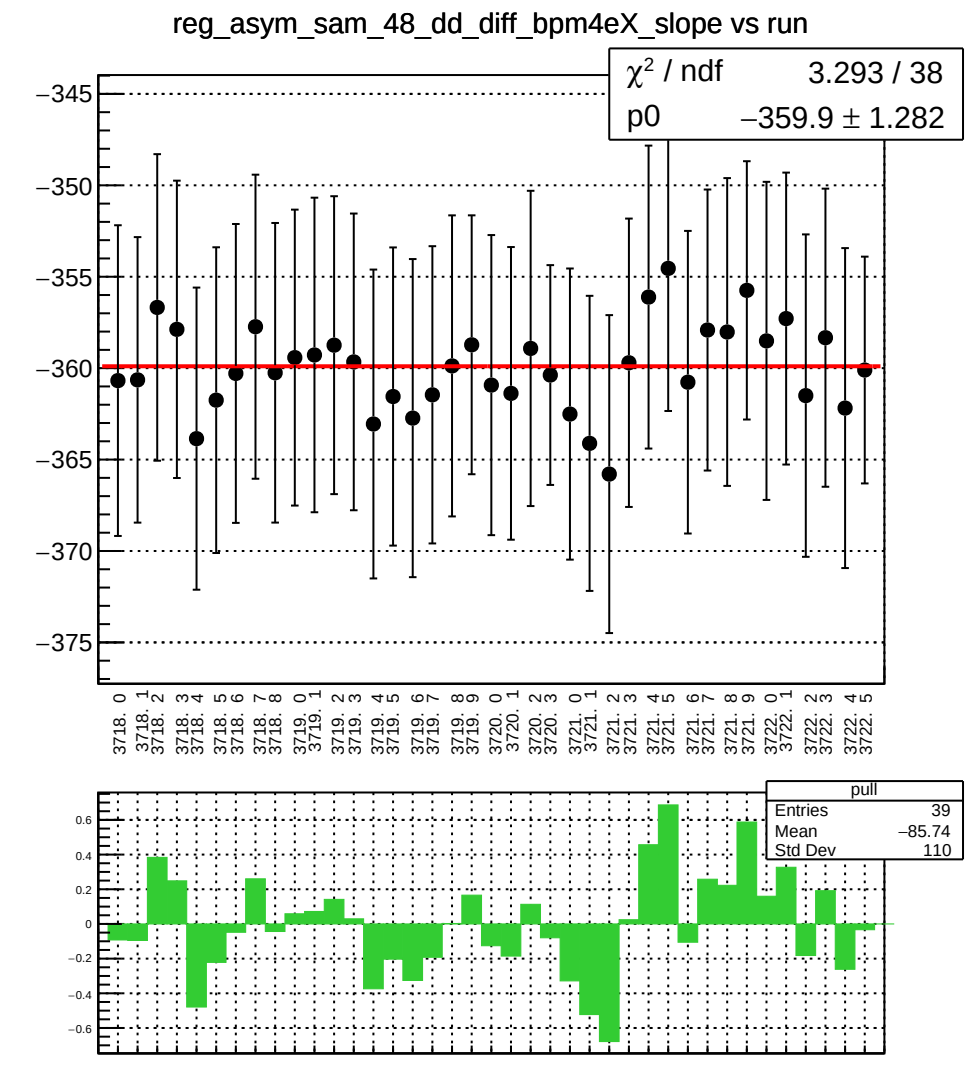

pull1D
Entries 39
Mean −0.001997
Std Dev 0.2949

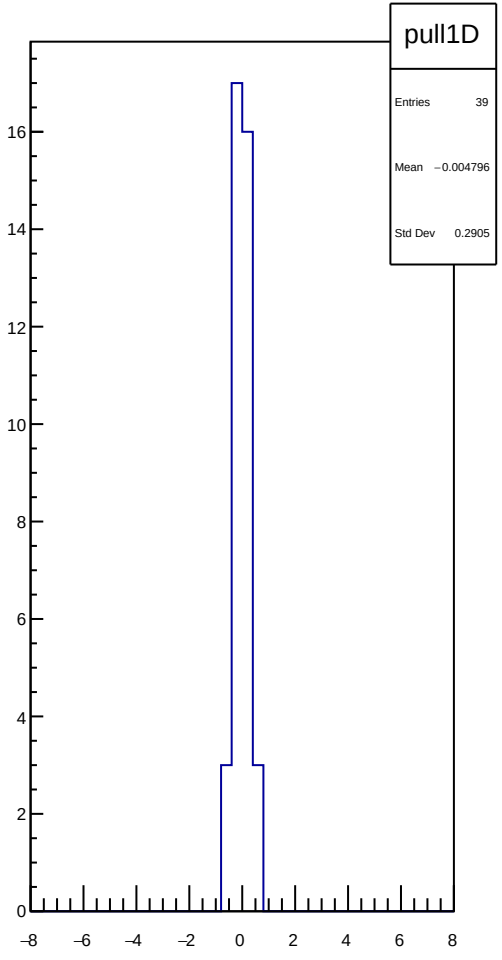

reg_asym_sam_48_dd_diff_bpm4aX_slope vs run
χ² / ndf 2.875 / 38
p0 73.25 ± 6.541
pull
Entries 39
Mean −221.1
Std Dev 242.6

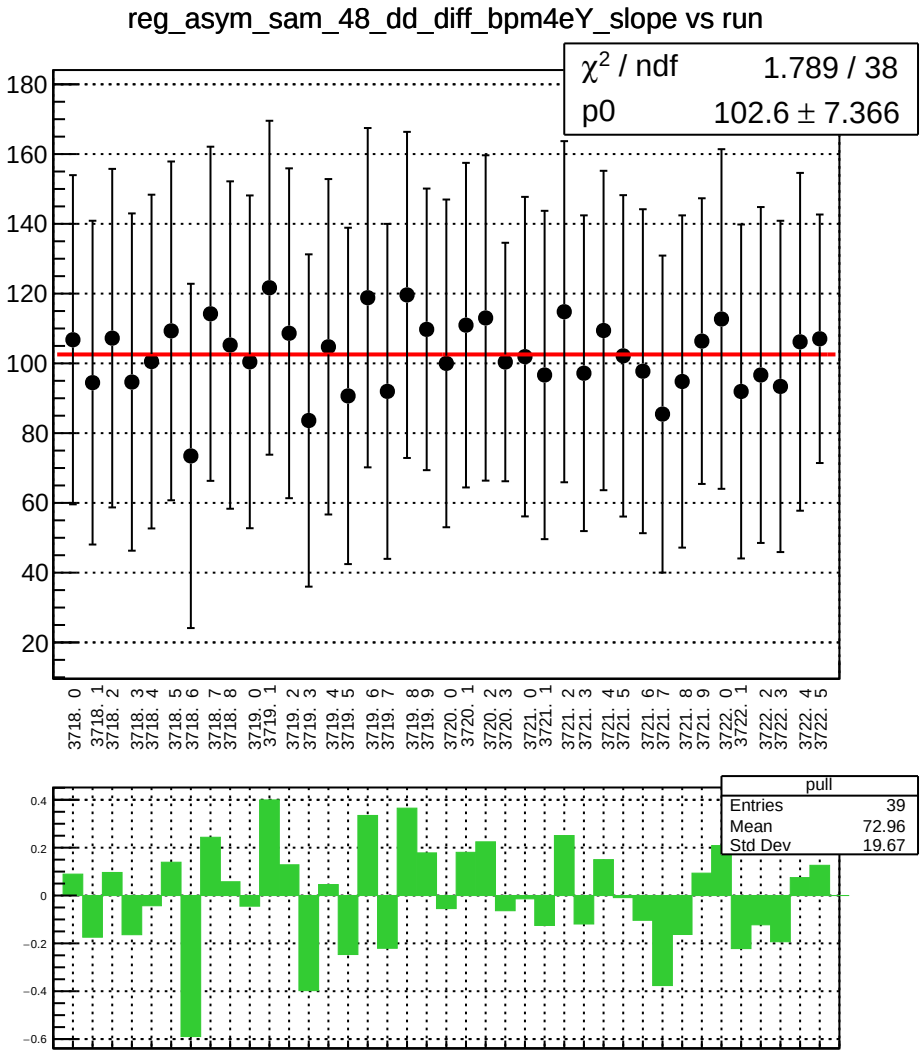

pull1D
Entries 39
Mean 0.003936
Std Dev 0.2715

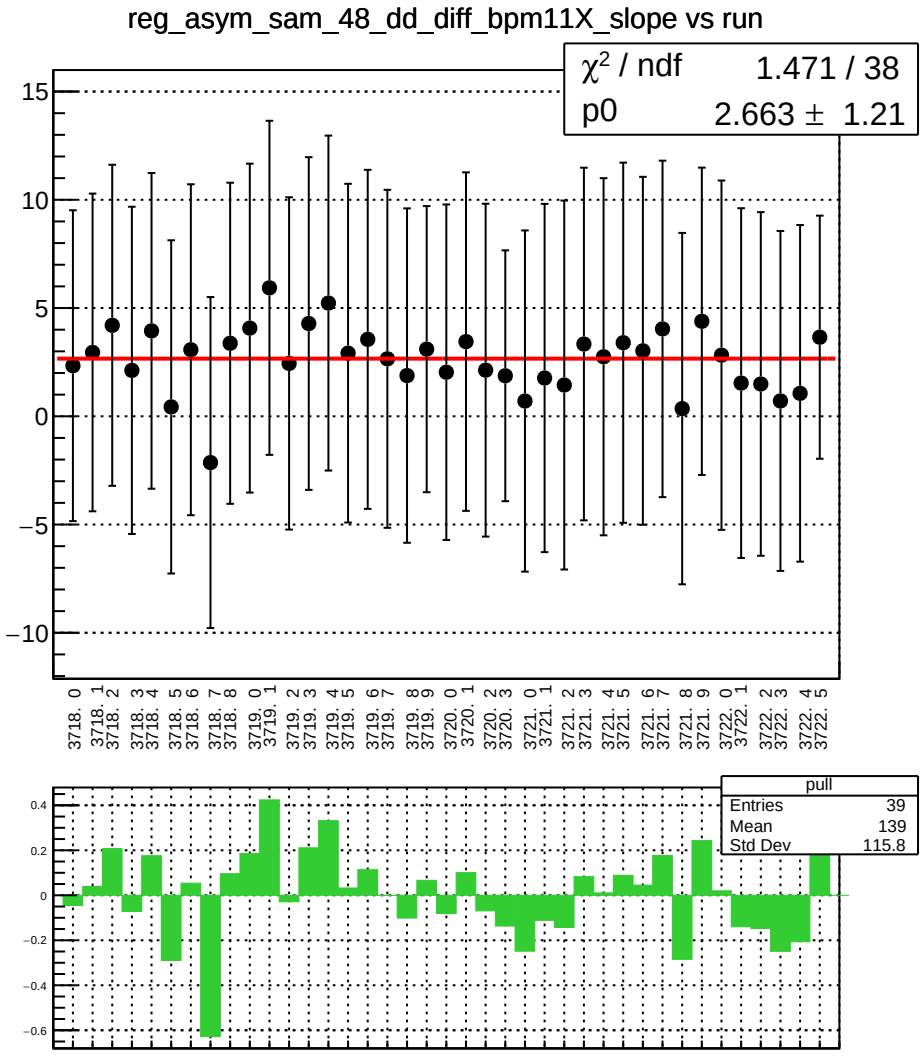

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.706 / 38
p0 122.3 ± 4.729
160
140
120
100
80
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −892.6
Std Dev 916.9
0.4
0.2
0
−0.2
−0.4

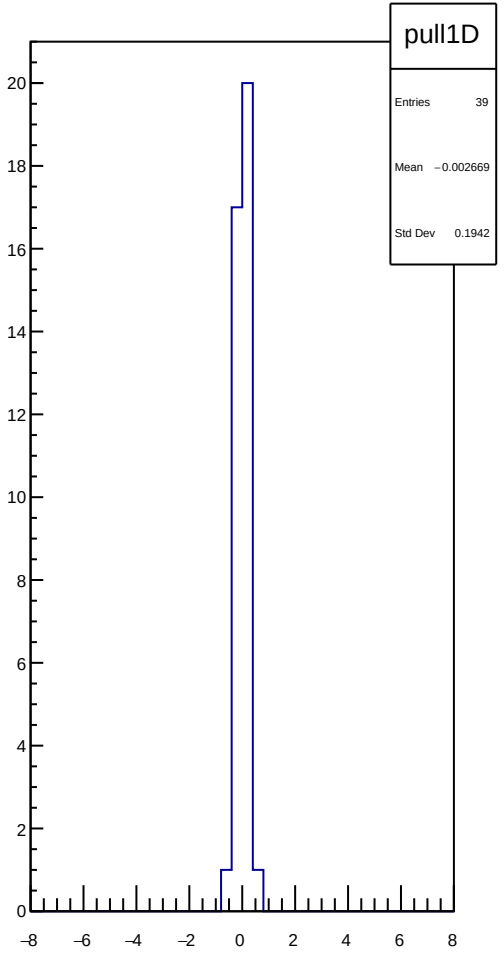

pull1D
Entries 39
Mean −0.0002958
Std Dev 0.2091
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

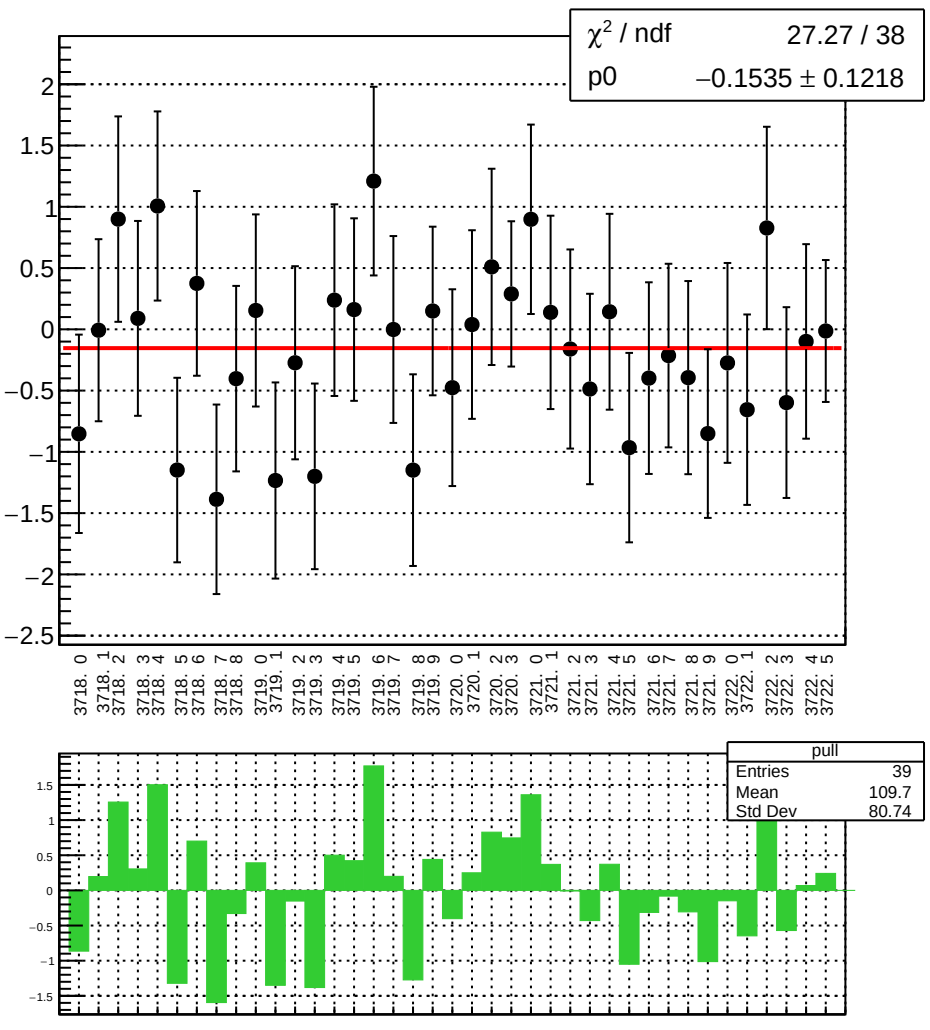

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.293 / 38
p0 −359.9 ± 1.282
−345
−350
−355
−360
−365
−370
−375
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −85.74
Std Dev 110
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

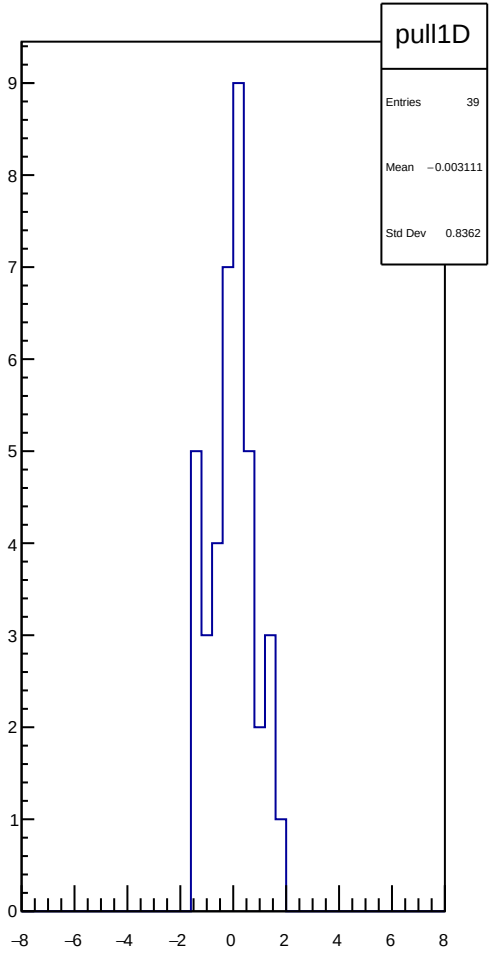

pull1D
Entries 39
Mean −0.004796
Std Dev 0.2905
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

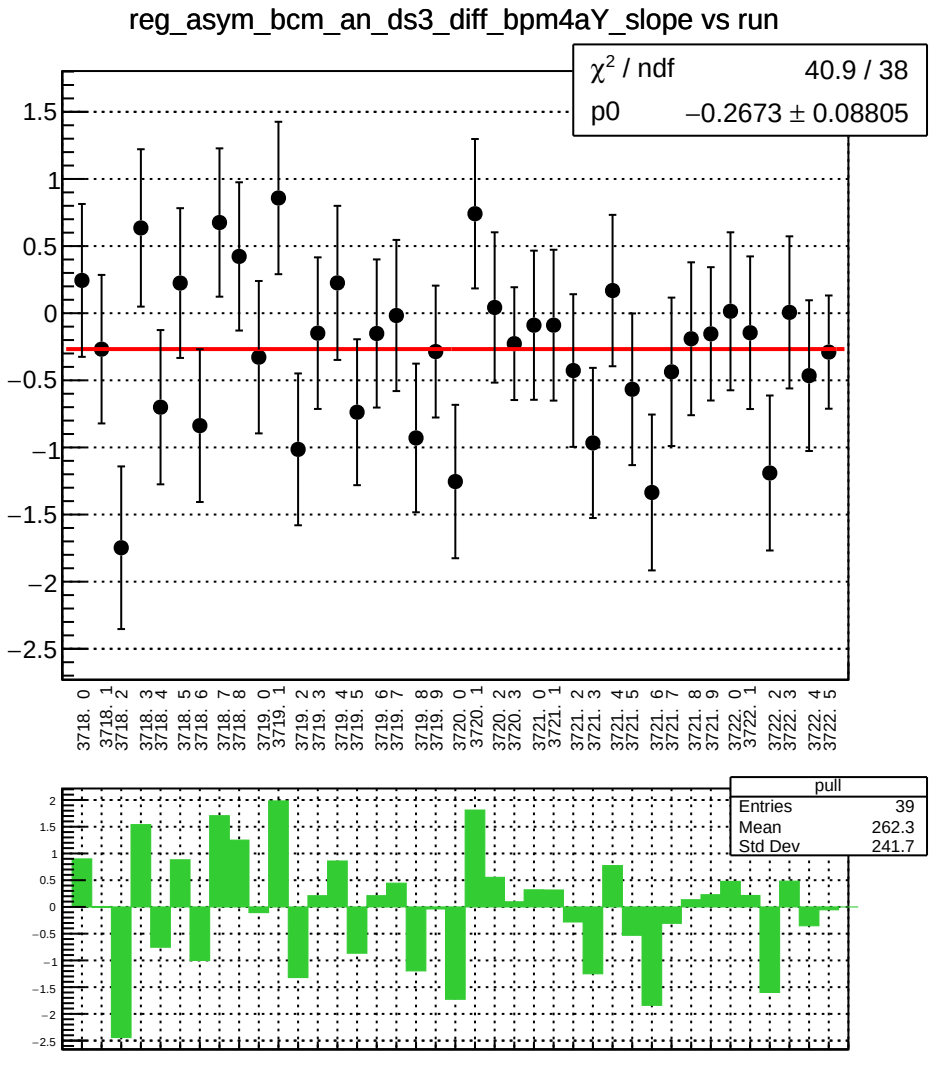

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.789 / 38
p0 102.6 ± 7.366
pull
Entries 39
Mean 72.96
Std Dev 19.67
pull1D
Entries 39
Mean −0.001469
Std Dev 0.2142

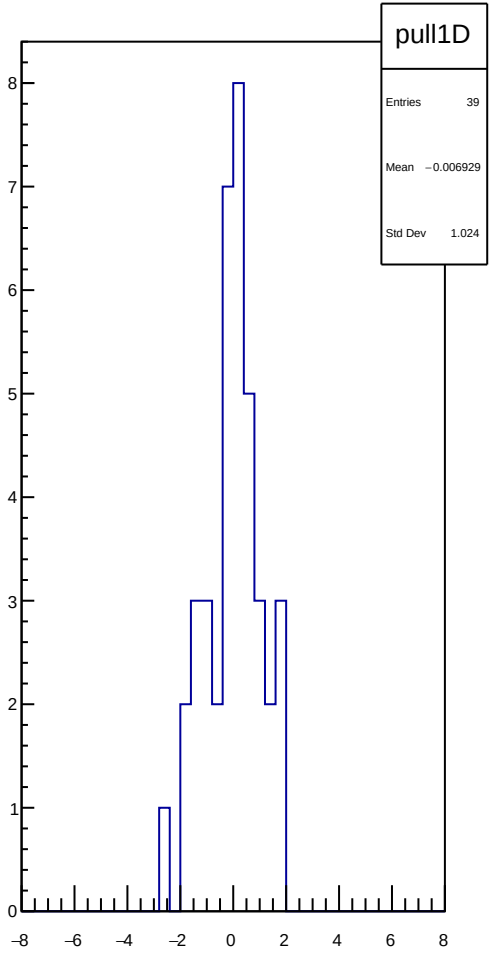

reg_asym_sam_48_dd_diff_bpm11X_slope vs run
χ² / ndf 1.471 / 38
p0 2.663 ± 1.21
pull
Entries 39
Mean 139
Std Dev 115.8

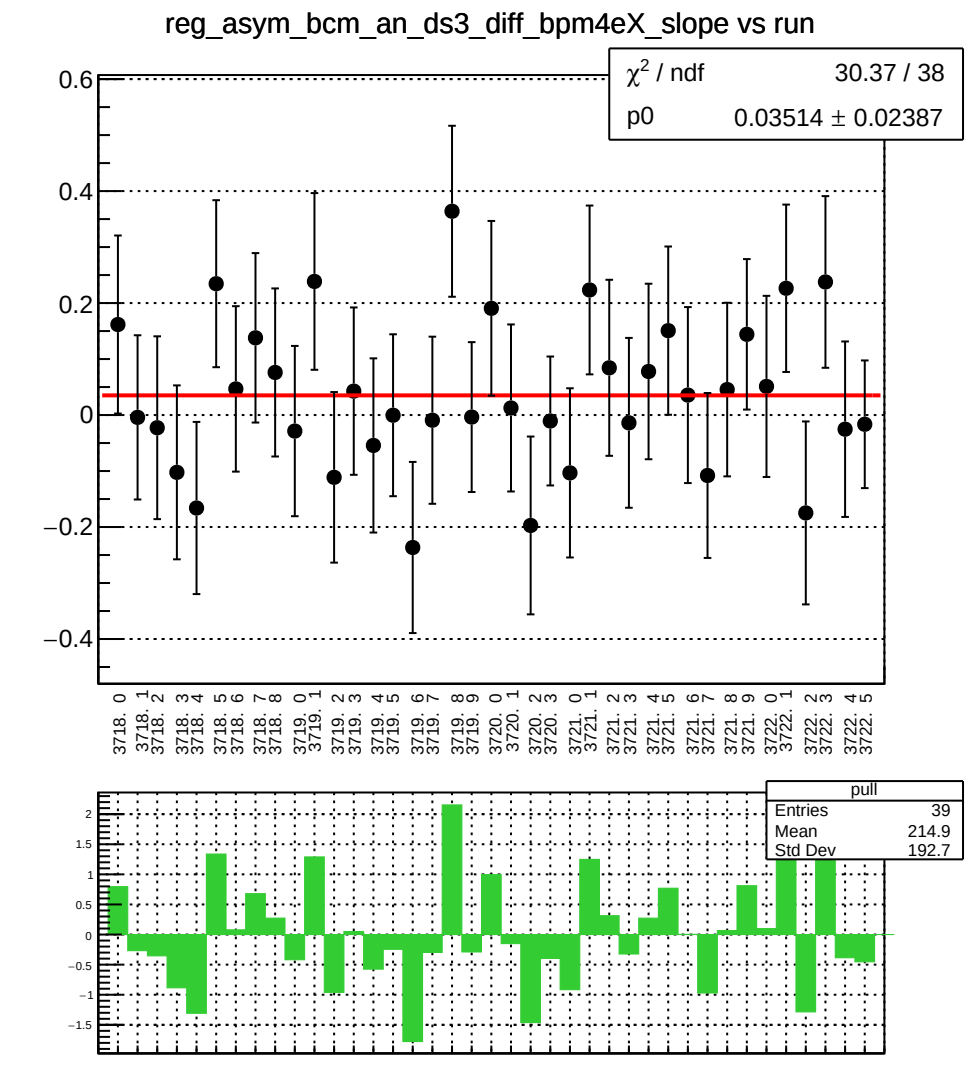

pull1D
Entries 39
Mean −0.002669
Std Dev 0.1942

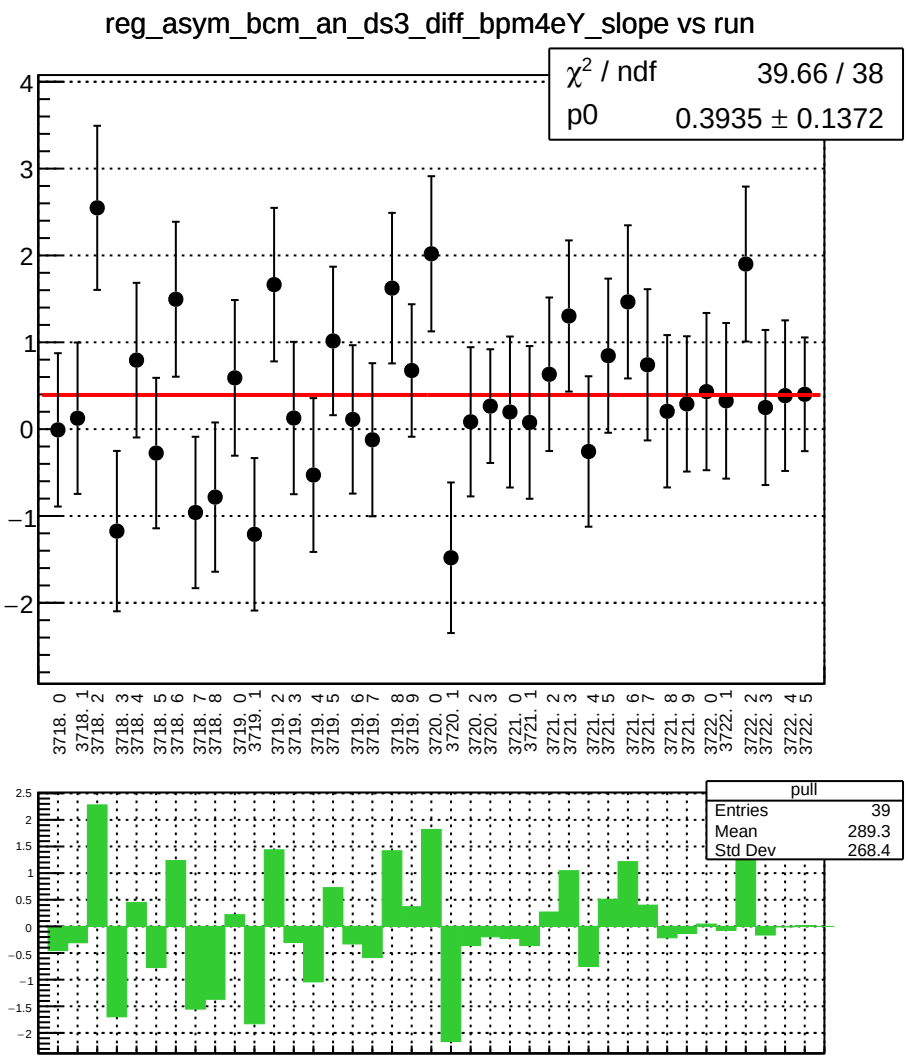

reg_asym_bcm_an_ds3_diff_bpm4aX_slope vs run
χ² / ndf 27.27 / 38
p0 −0.1535 ± 0.1218
pull
Entries 39
Mean 109.7
Std Dev 80.74

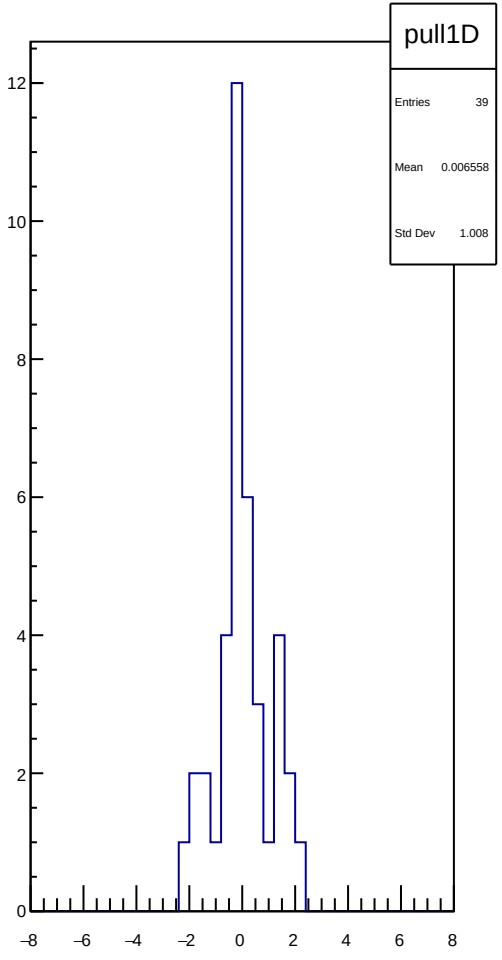

pull1D
Entries 39
Mean −0.003111
Std Dev 0.8362

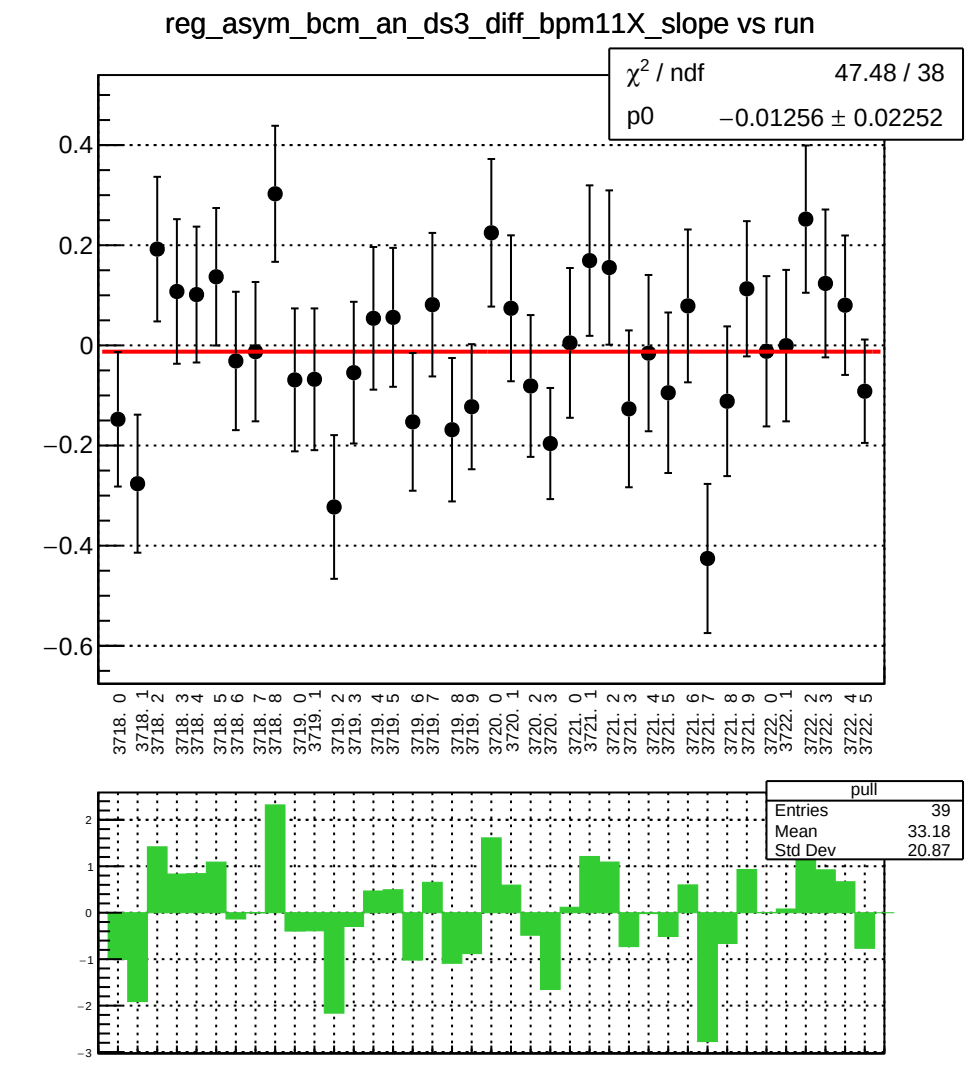

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 40.9 / 38
p0 −0.2673 ± 0.08805
pull
Entries 39
Mean 262.3
Std Dev 241.7

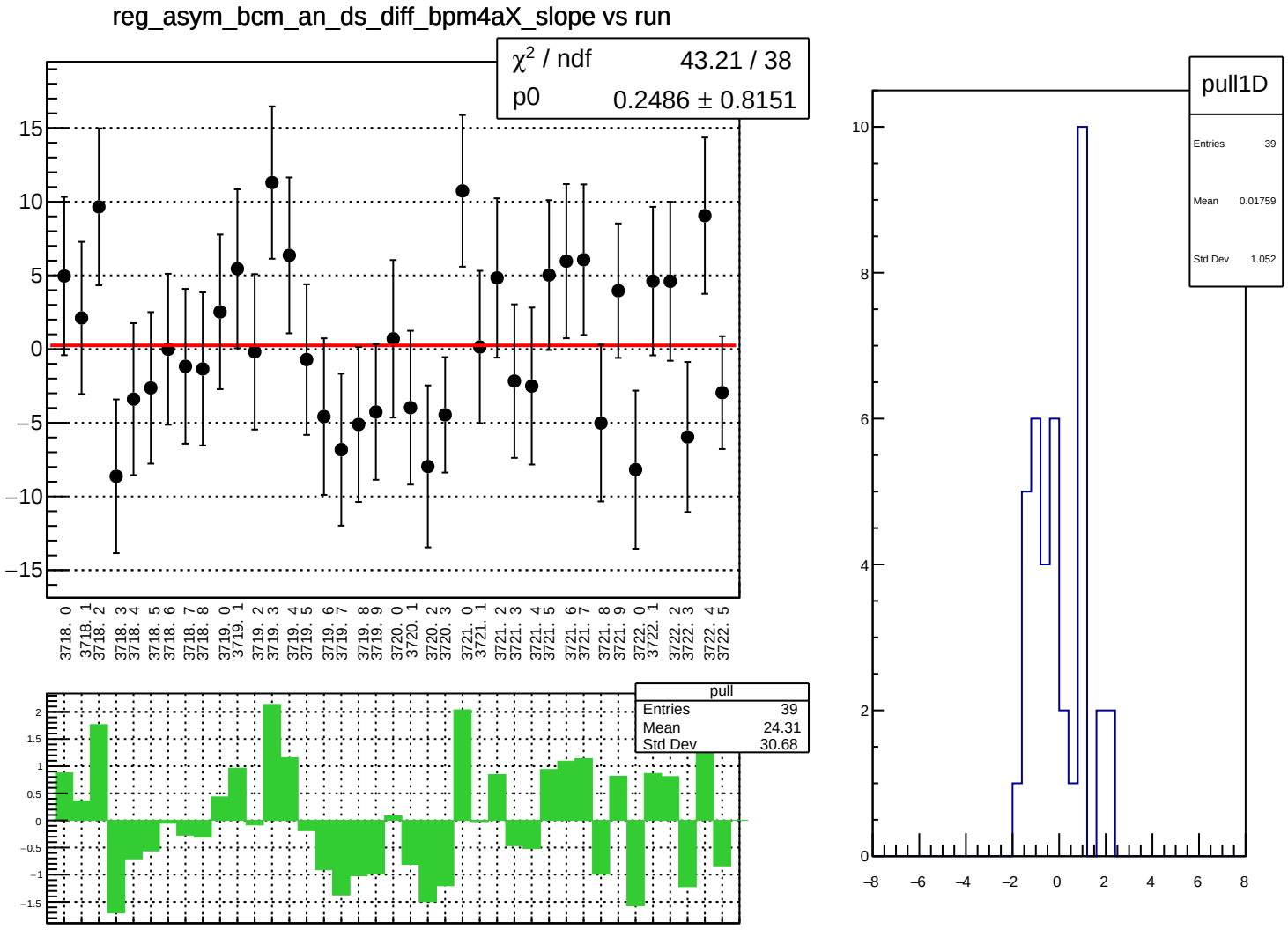

pull1D
Entries 39
Mean −0.006929
Std Dev 1.024

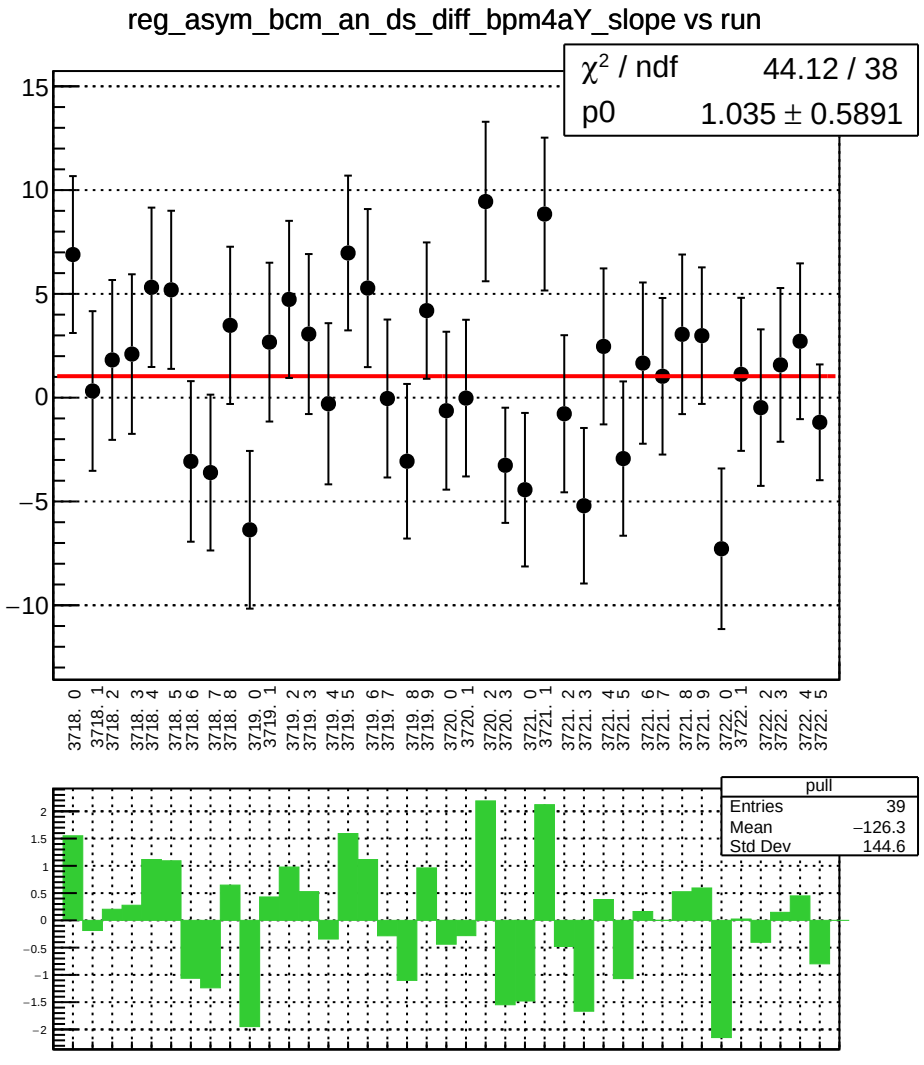

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 30.37 / 38
p0 0.03514 ± 0.02387
0.6
0.4
0.2
0
−0.2
−0.4
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 214.9
Std Dev 192.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.002869
Std Dev 0.8824
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

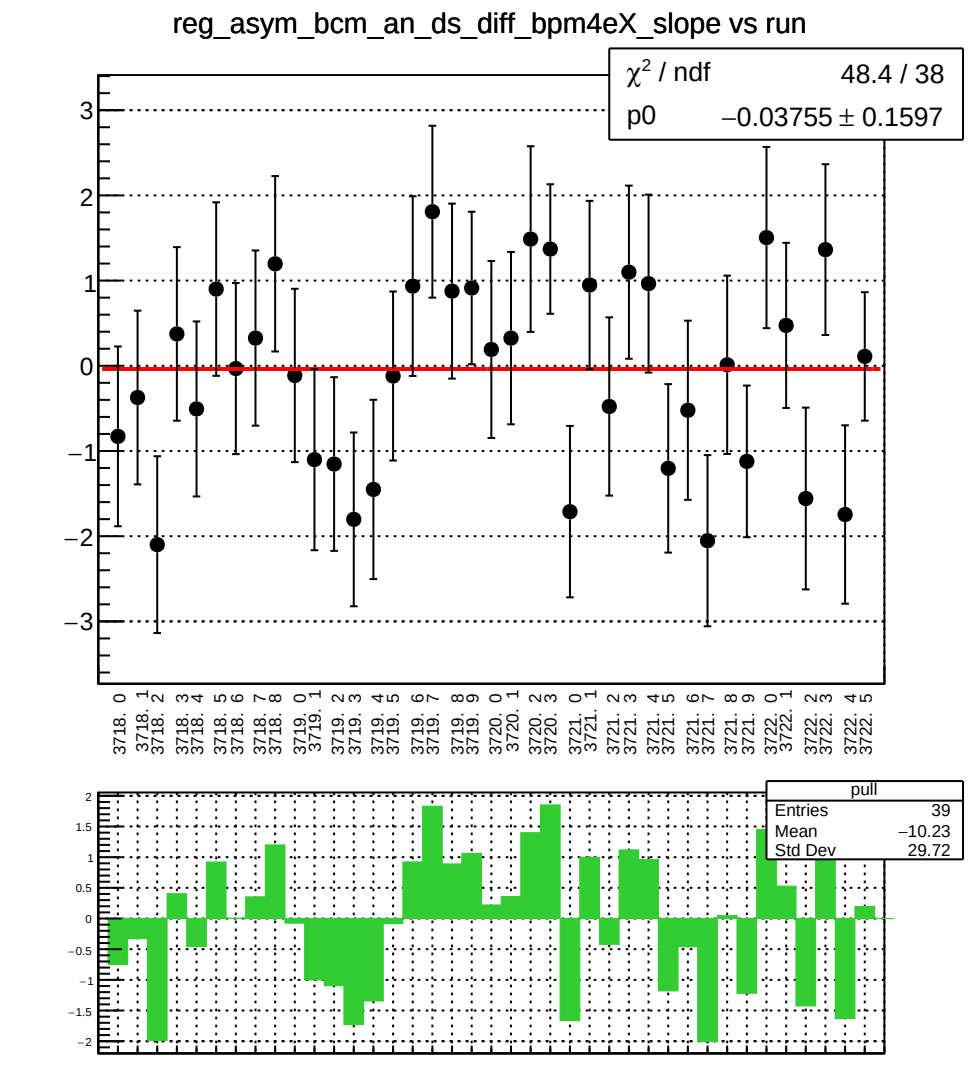

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 39.66 / 38
p0 0.3935 ± 0.1372
pull
Entries 39
Mean 289.3
Std Dev 268.4

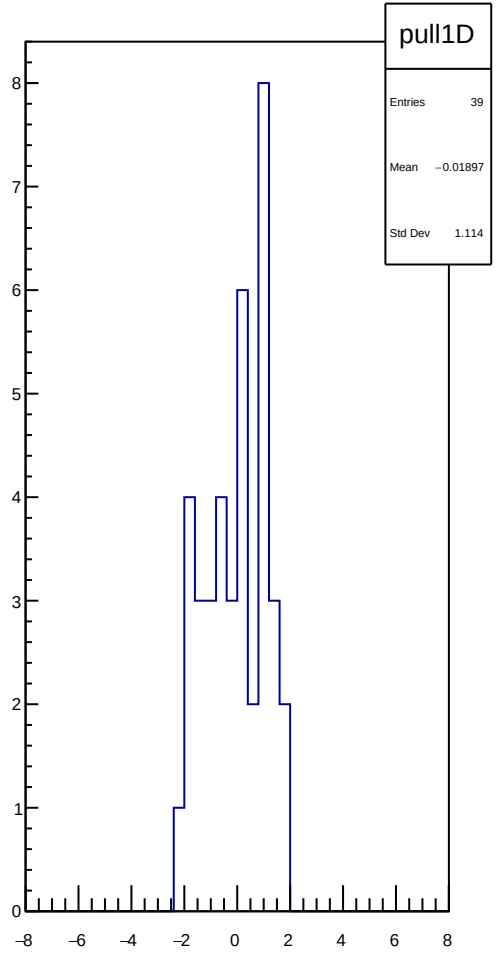

pull1D
Entries 39
Mean 0.006558
Std Dev 1.008

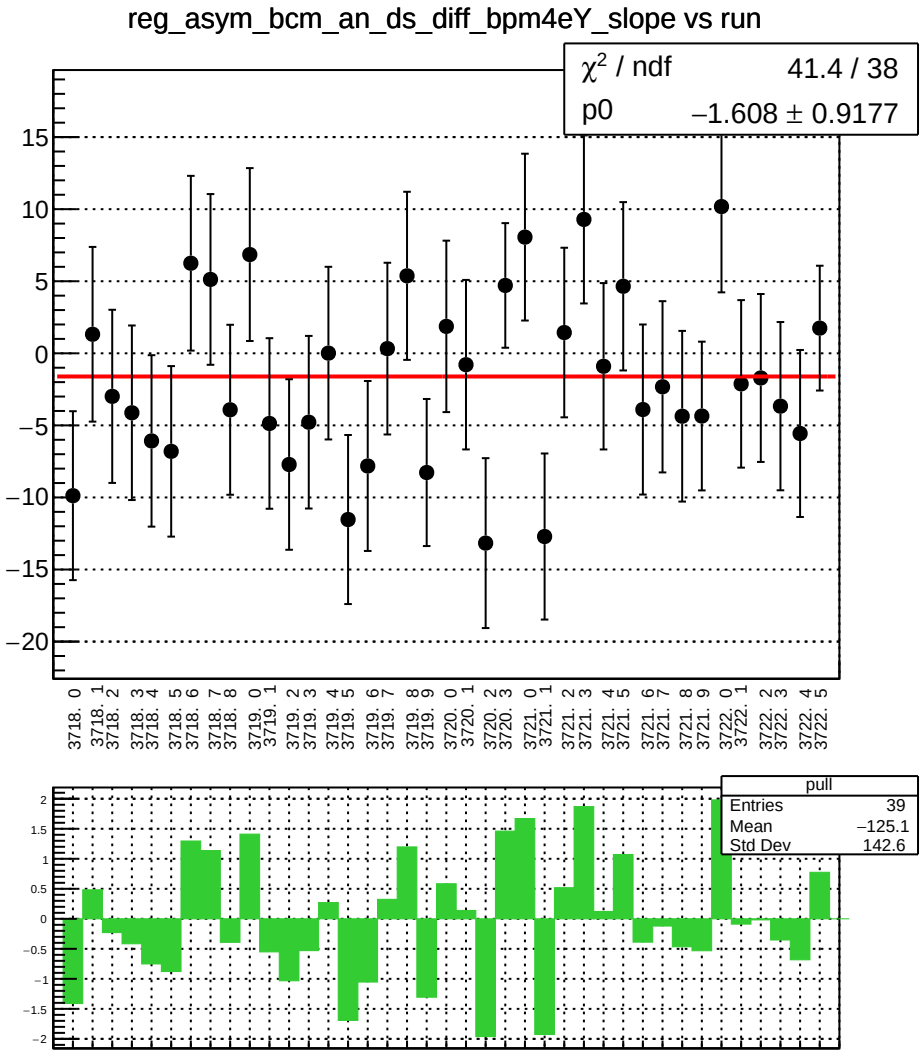

reg_asym_bcm_an_ds3_diff_bpm11X_slope vs run
χ² / ndf 47.48 / 38
p0 −0.01256 ± 0.02252
0.4
0.2
0
−0.2
−0.4
−0.6
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 33.18
Std Dev 20.87
2
1
0
−1
−2
−3
pull1D
Entries 39
Mean 0.02224
Std Dev 1.103
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

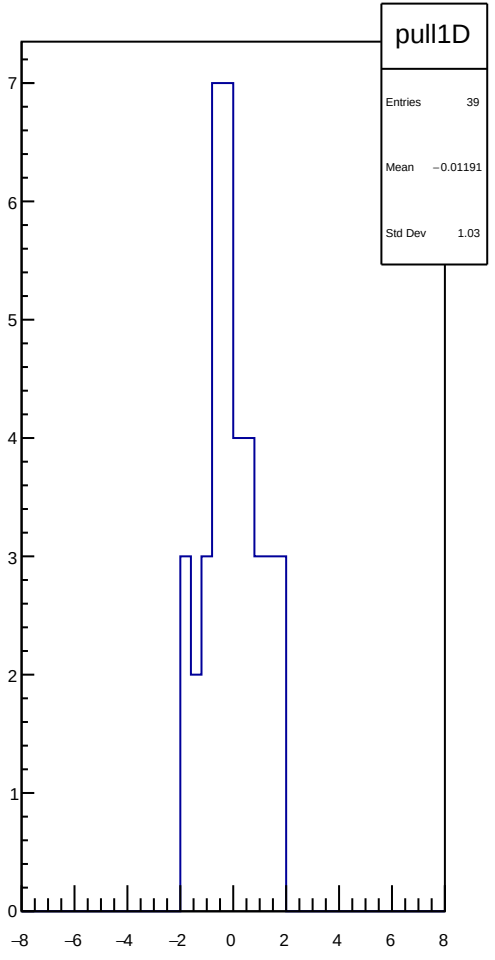

reg_asym_bcm_an_ds_diff_bpm4aX_slope vs run
χ² / ndf 43.21 / 38
p0 0.2486 ± 0.8151
15
10
5
0
−5
−10
−15
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 24.31
Std Dev 30.68
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.01759
Std Dev 1.052
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

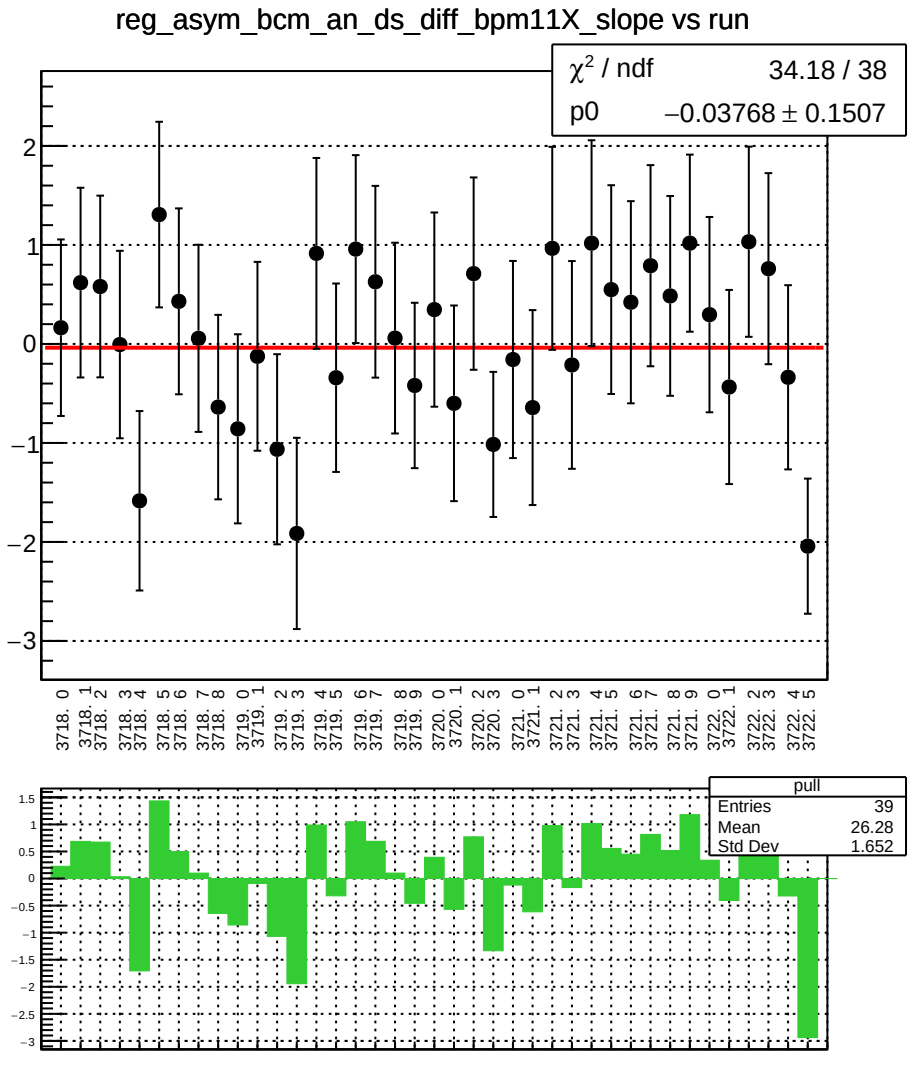

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 44.12 / 38
p0 1.035 ± 0.5891
15
10
5
0
−5
−10
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −126.3
Std Dev 144.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean 0.01595
Std Dev 1.063
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

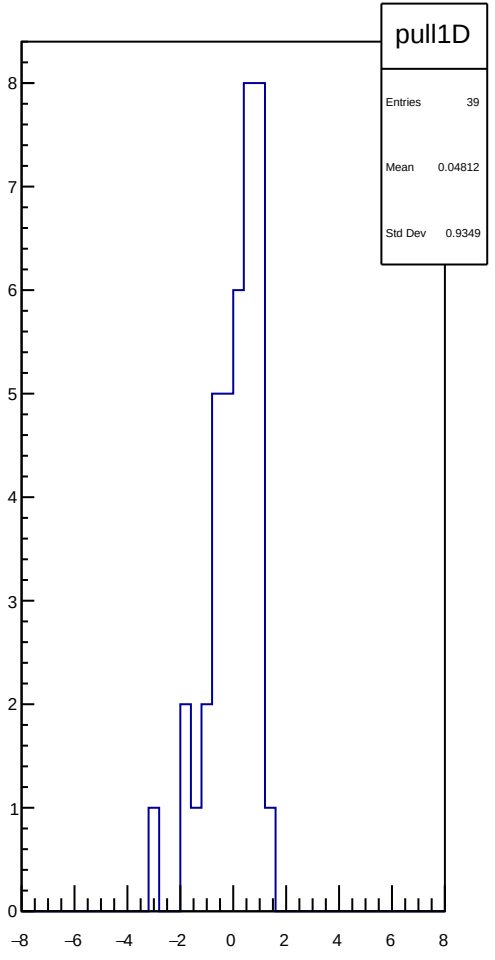

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 48.4 / 38
p0 −0.03755 ± 0.1597
pull
Entries 39
Mean −10.23
Std Dev 29.72

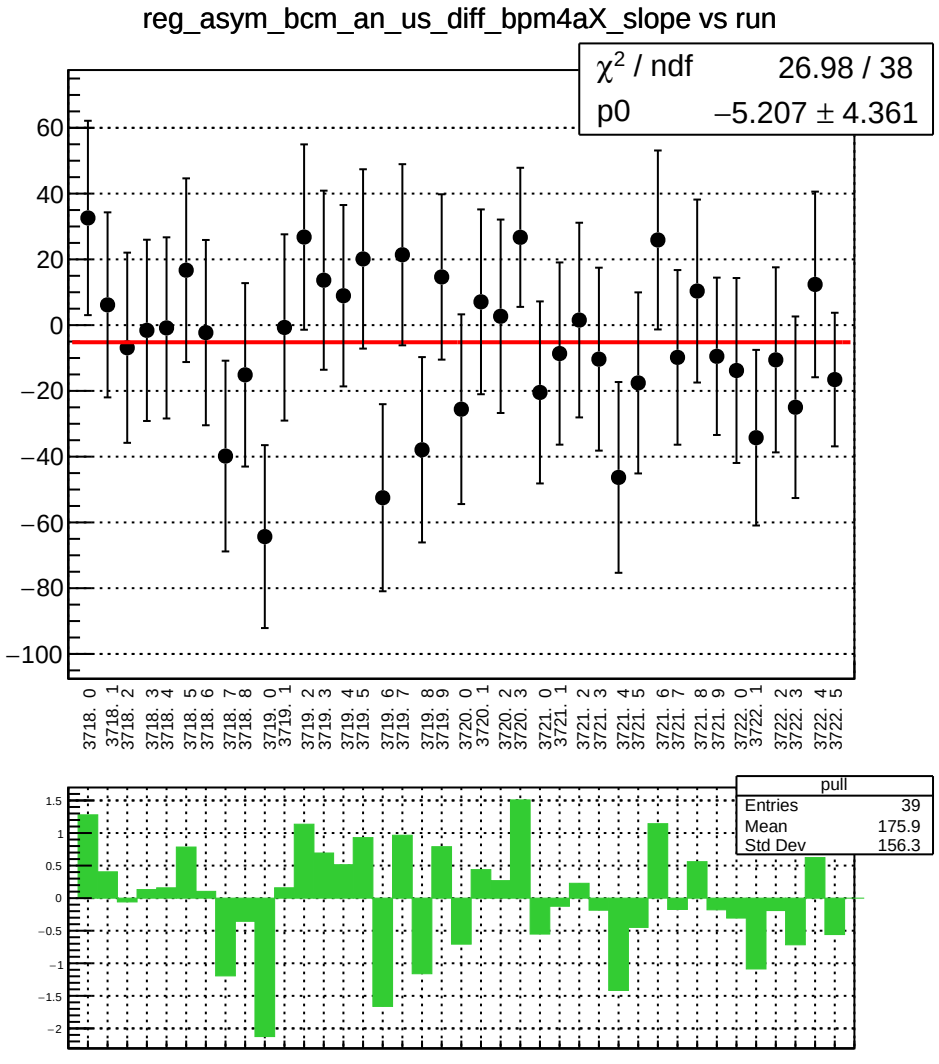

pull1D
Entries 39
Mean −0.01897
Std Dev 1.114

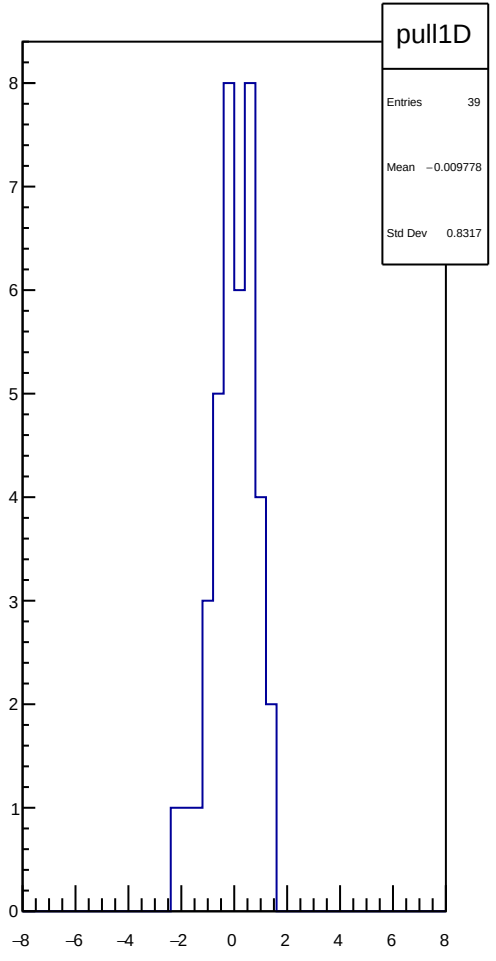

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 41.4 / 38
p0 −1.608 ± 0.9177
pull
Entries 39
Mean −125.1
Std Dev 142.6

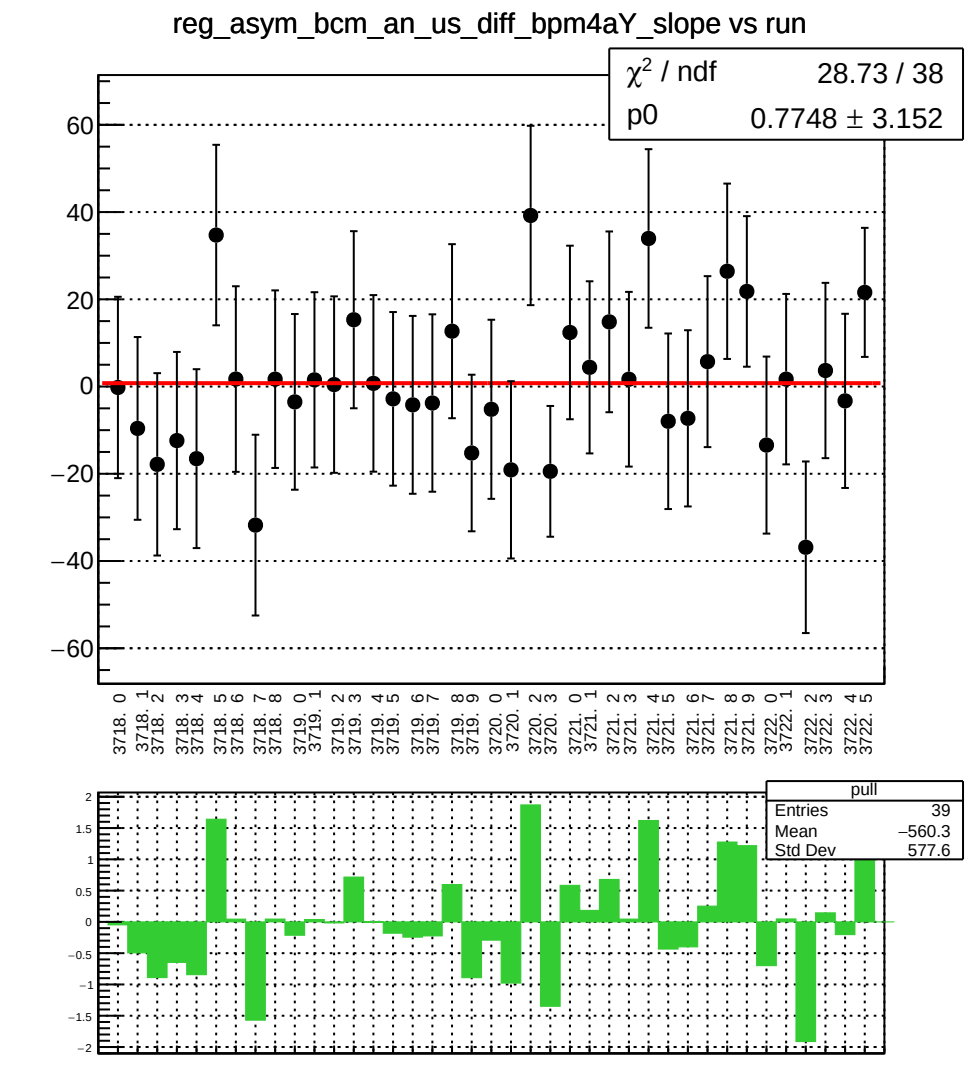

pull1D
Entries 39
Mean −0.01191
Std Dev 1.03

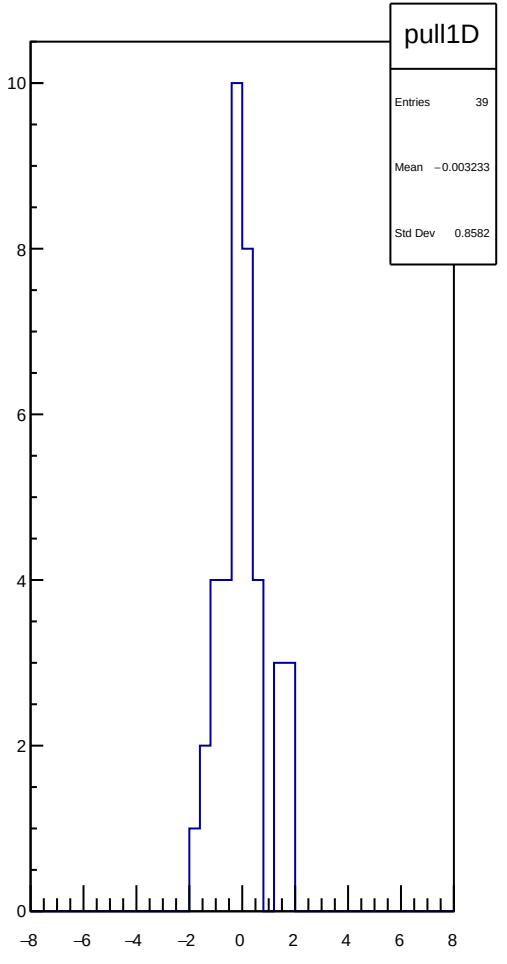

reg_asym_bcm_an_ds_diff_bpm11X_slope vs run
χ² / ndf 34.18 / 38
p0 −0.03768 ± 0.1507
pull
Entries 39
Mean 26.28
Std Dev 1.652

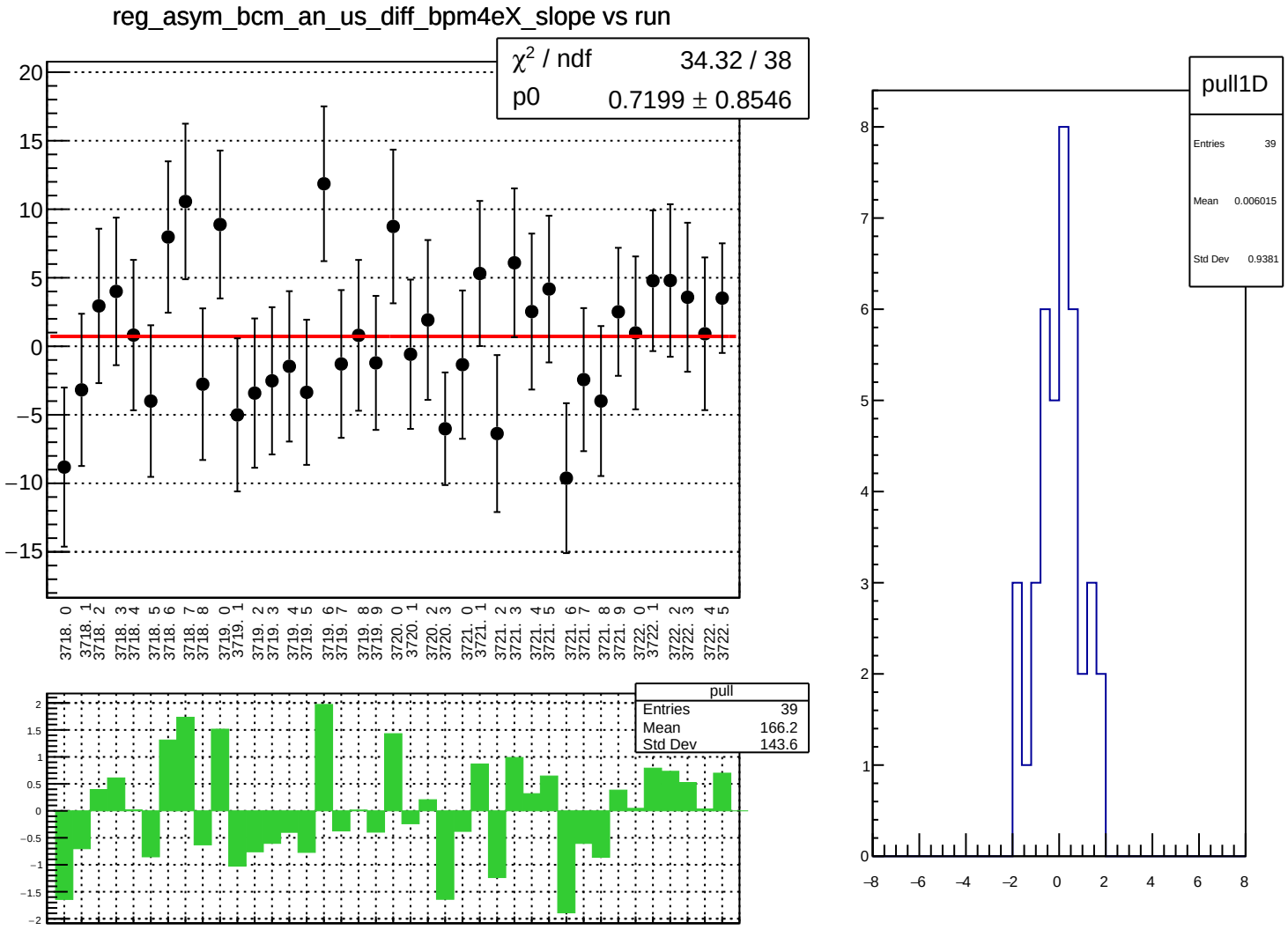

pull1D
Entries 39
Mean 0.04812
Std Dev 0.9349

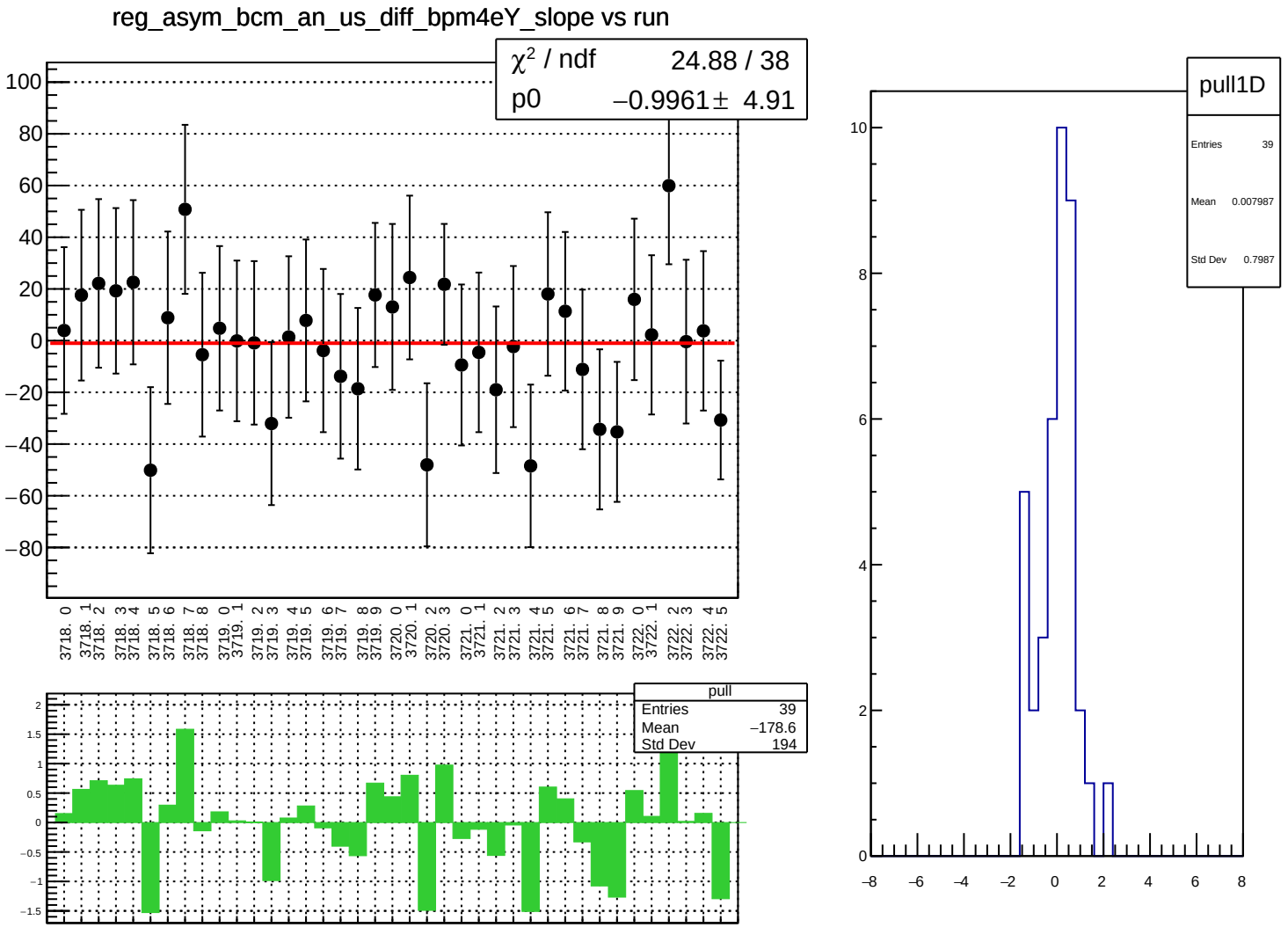

reg_asym_bcm_an_us_diff_bpm4aX_slope vs run
χ² / ndf 26.98 / 38
p0 −5.207 ± 4.361
pull
Entries 39
Mean 175.9
Std Dev 156.3

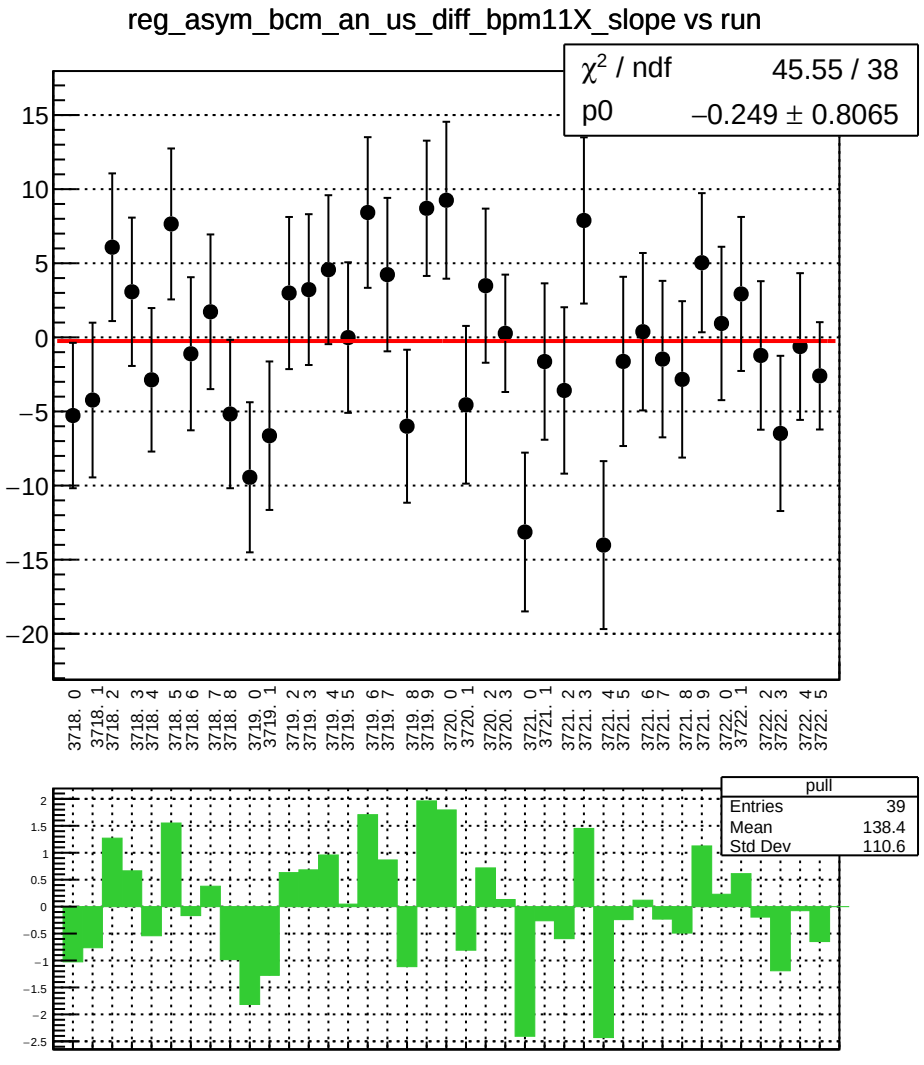

pull1D
Entries 39
Mean −0.009778
Std Dev 0.8317

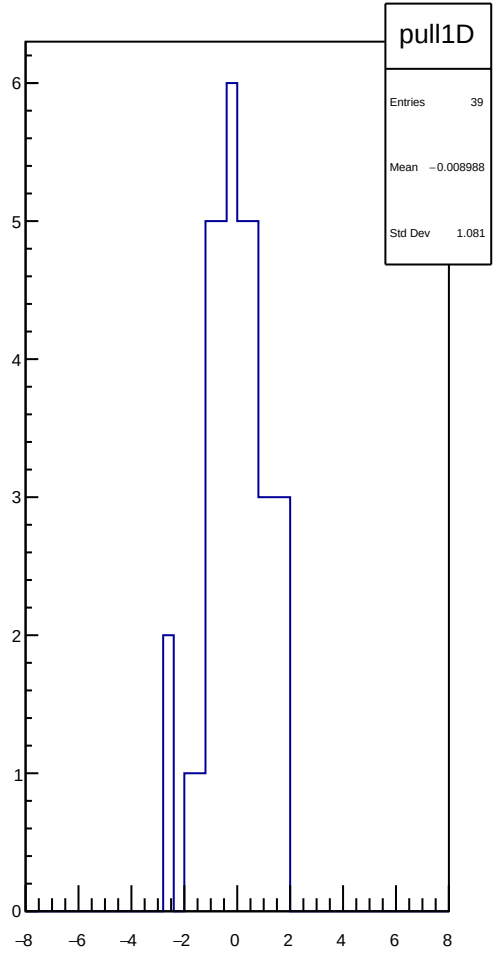

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 28.73 / 38
p0 0.7748 ± 3.152
pull
Entries 39
Mean −560.3
Std Dev 577.6

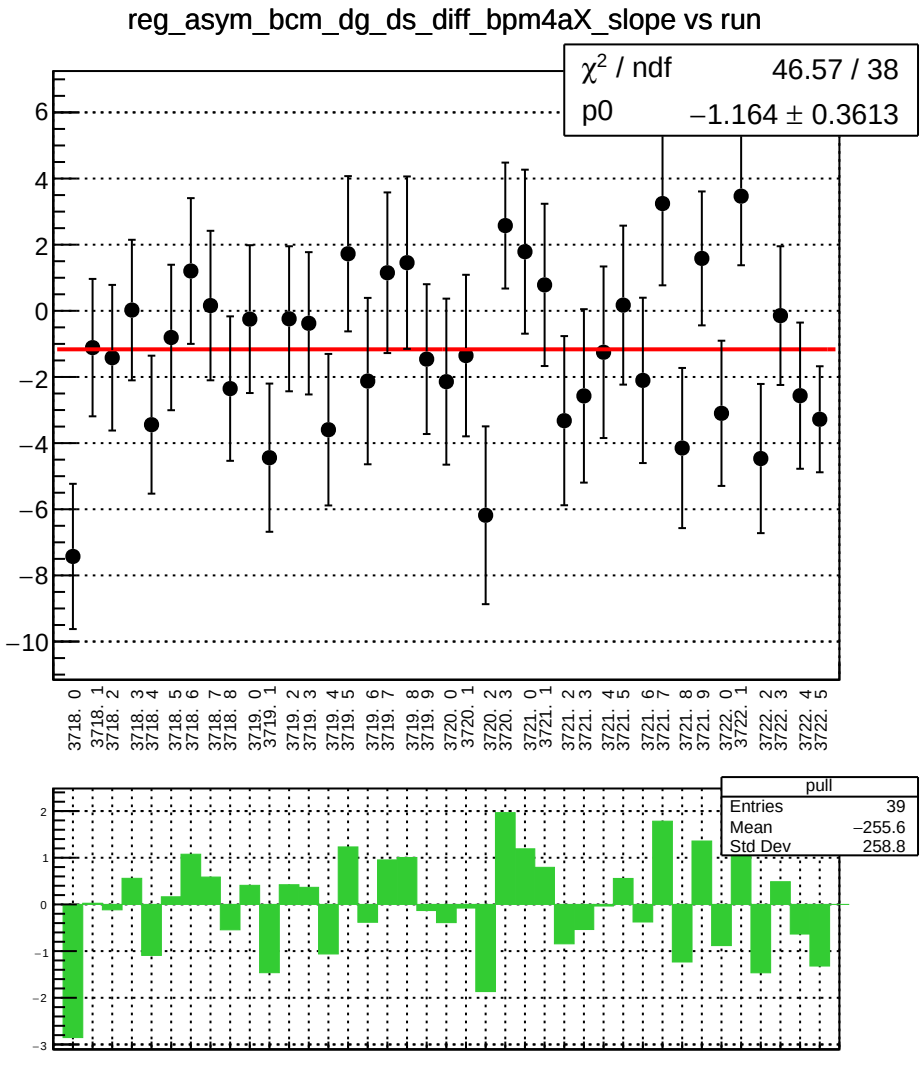

pull1D
Entries 39
Mean −0.003233
Std Dev 0.8582

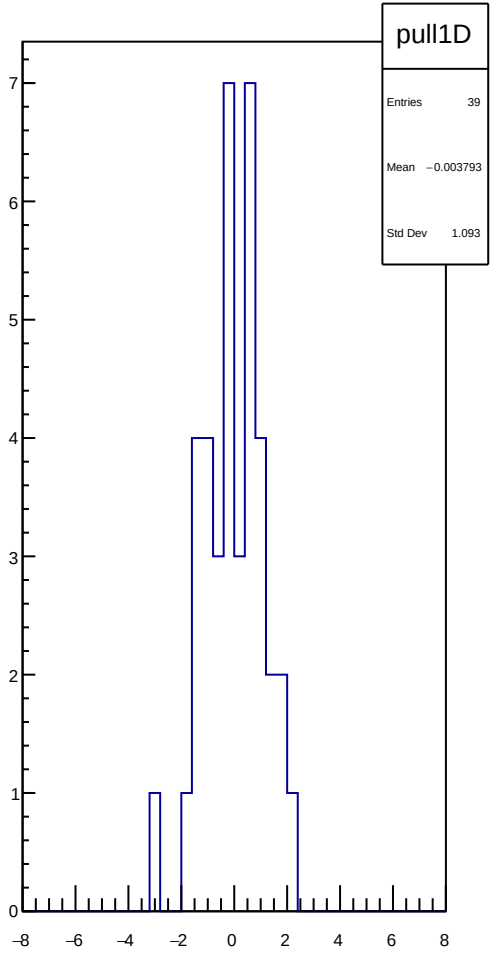

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 34.32 / 38
p0 0.7199 ± 0.8546
pull
Entries 39
Mean 166.2
Std Dev 143.6
pull1D
Entries 39
Mean 0.006015
Std Dev 0.9381

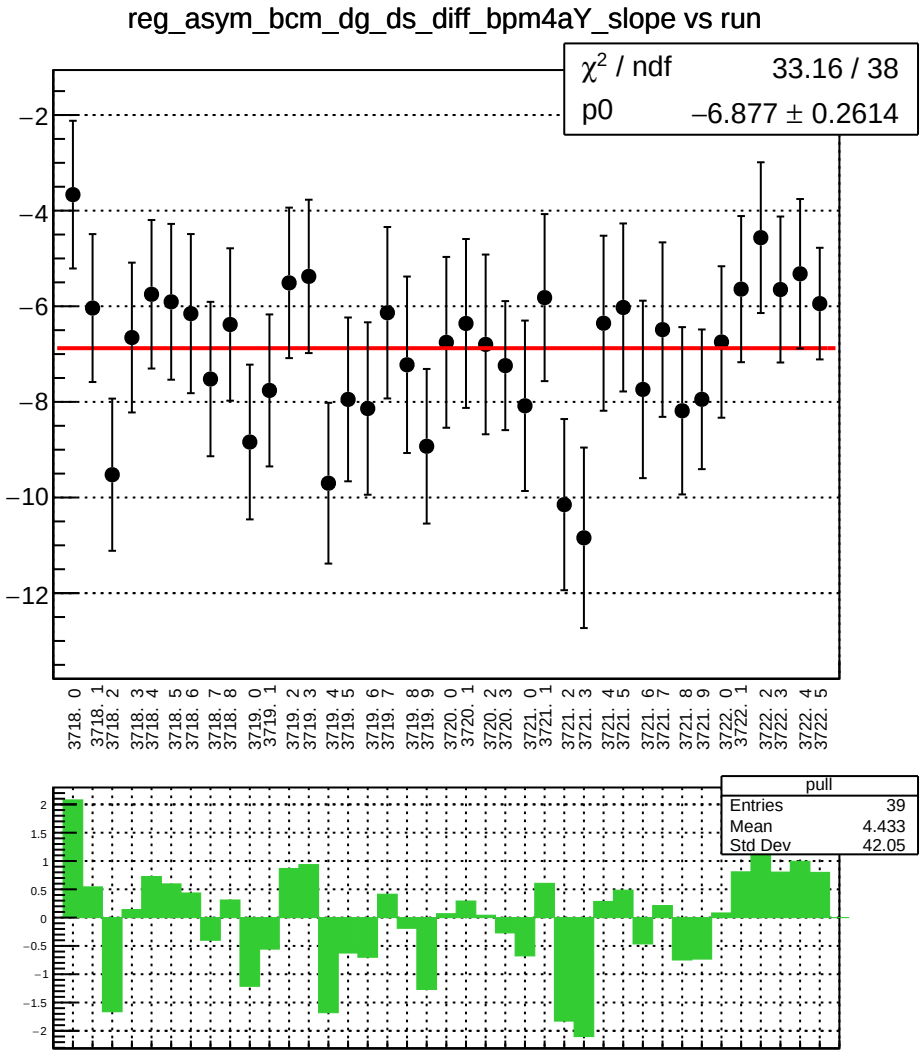

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 24.88 / 38
p0 −0.9961 ± 4.91
pull
Entries 39
Mean −178.6
Std Dev 194
pull1D
Entries 39
Mean 0.007987
Std Dev 0.7987

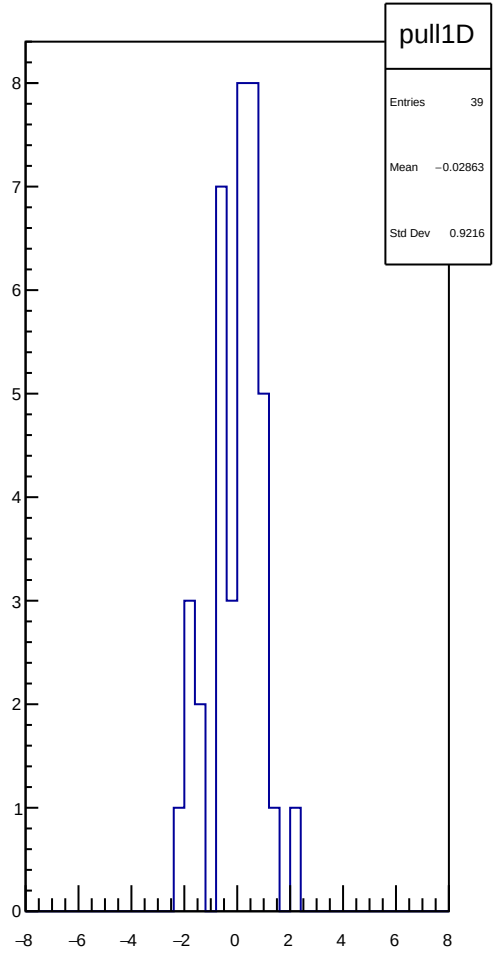

reg_asym_bcm_an_us_diff_bpm11X_slope vs run
χ² / ndf 45.55 / 38
p0 −0.249 ± 0.8065
pull
Entries 39
Mean 138.4
Std Dev 110.6

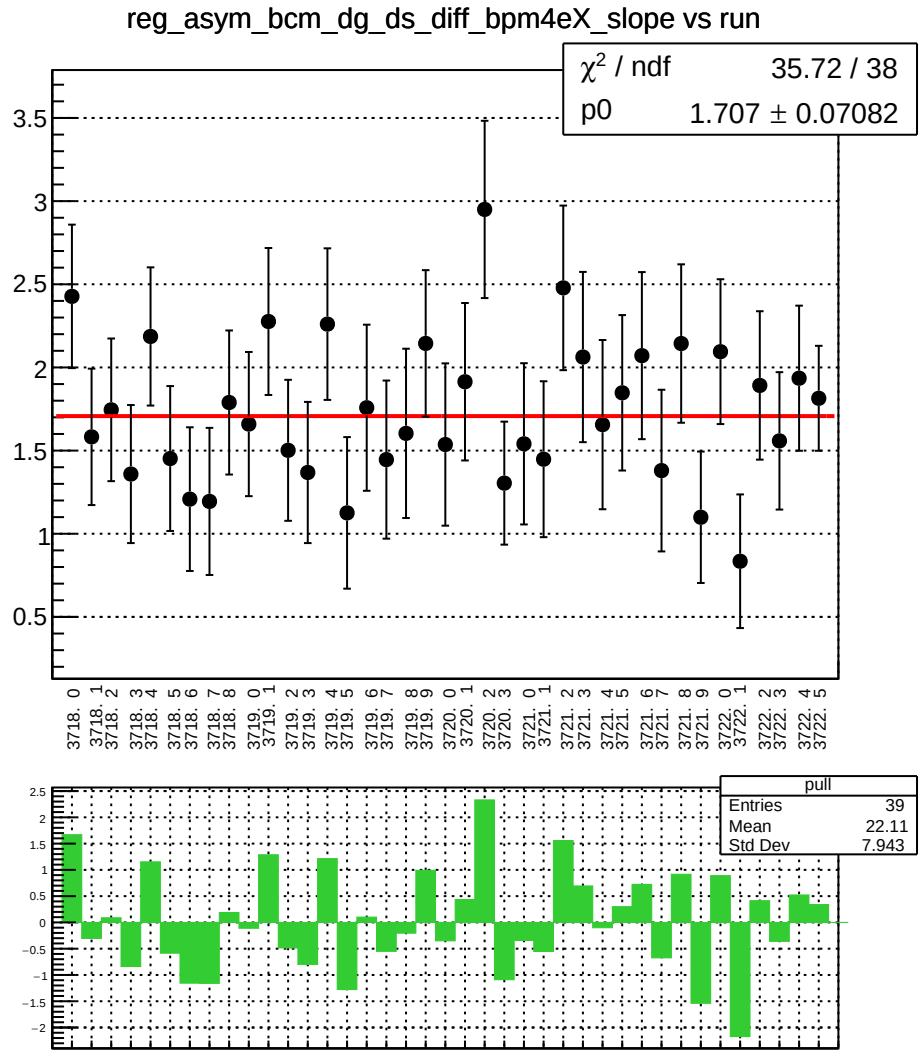

pull1D
Entries 39
Mean −0.008988
Std Dev 1.081

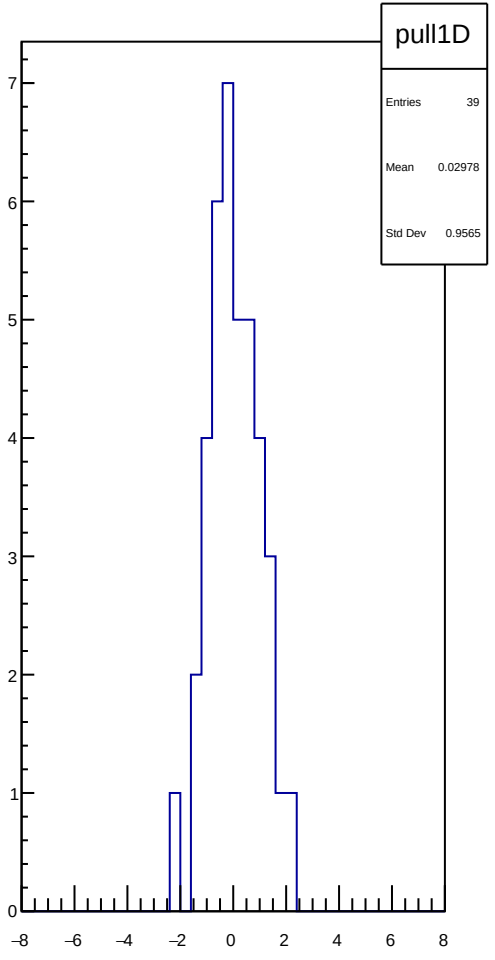

reg_asym_bcm_dg_ds_diff_bpm4aX_slope vs run
χ² / ndf 46.57 / 38
p0 −1.164 ± 0.3613
pull
Entries 39
Mean −255.6
Std Dev 258.8

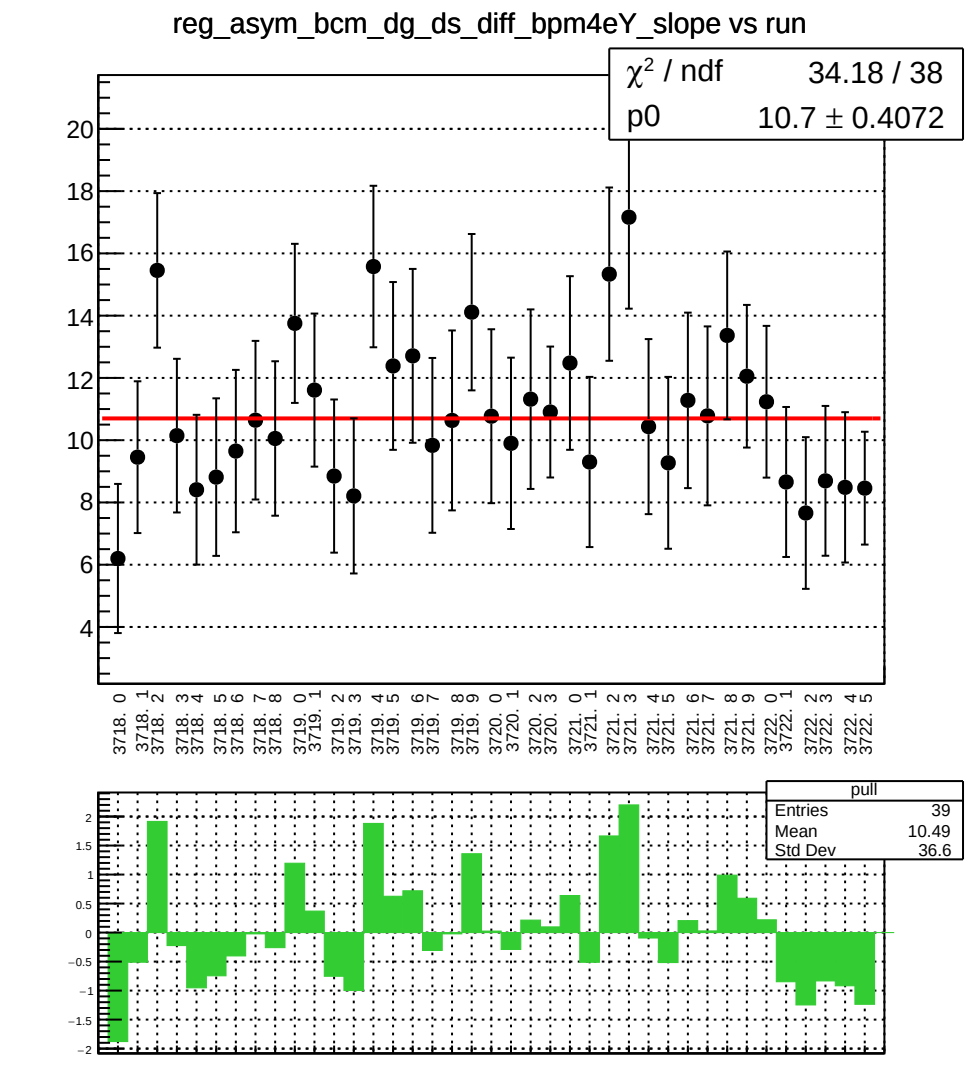

pull1D
Entries 39
Mean −0.003793
Std Dev 1.093

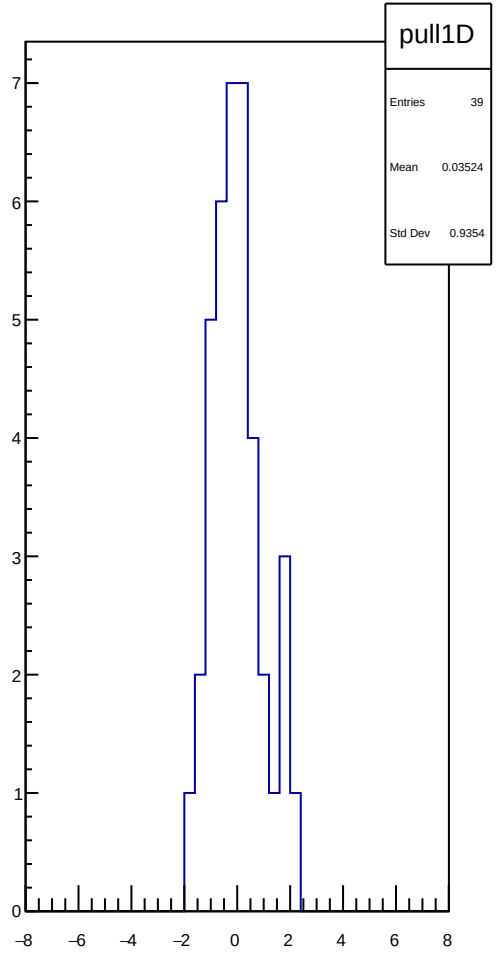

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 33.16 / 38
p0 −6.877 ± 0.2614
pull
Entries 39
Mean 4.433
Std Dev 42.05

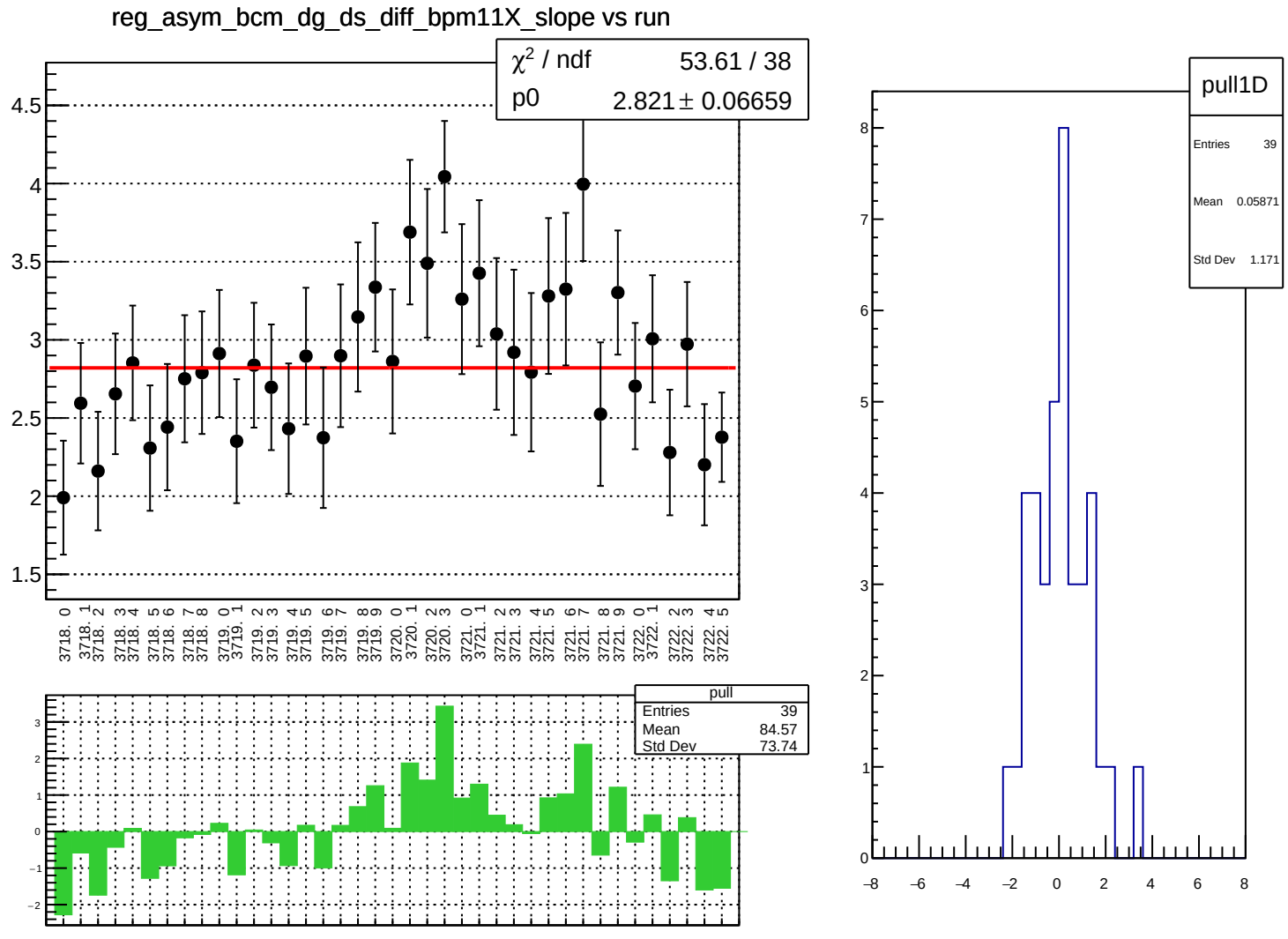

pull1D
Entries 39
Mean −0.02863
Std Dev 0.9216

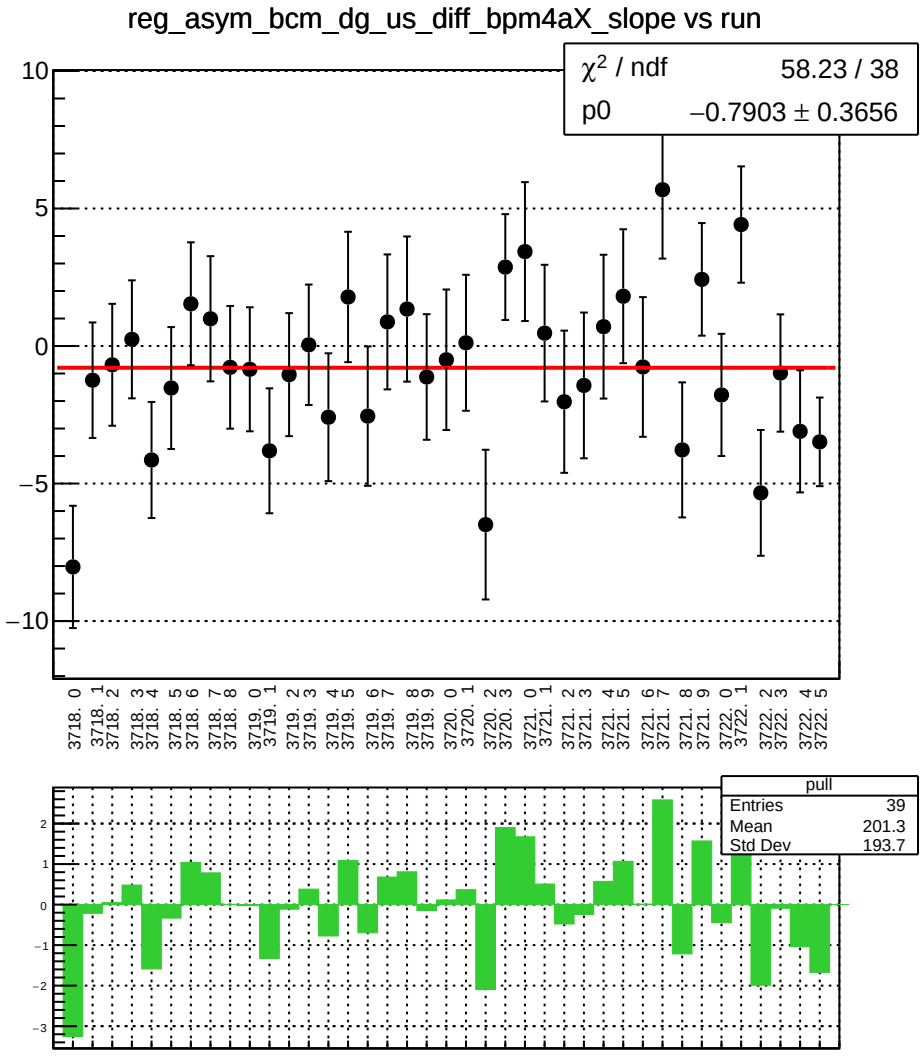

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 35.72 / 38
p0 1.707 ± 0.07082
pull
Entries 39
Mean 22.11
Std Dev 7.943

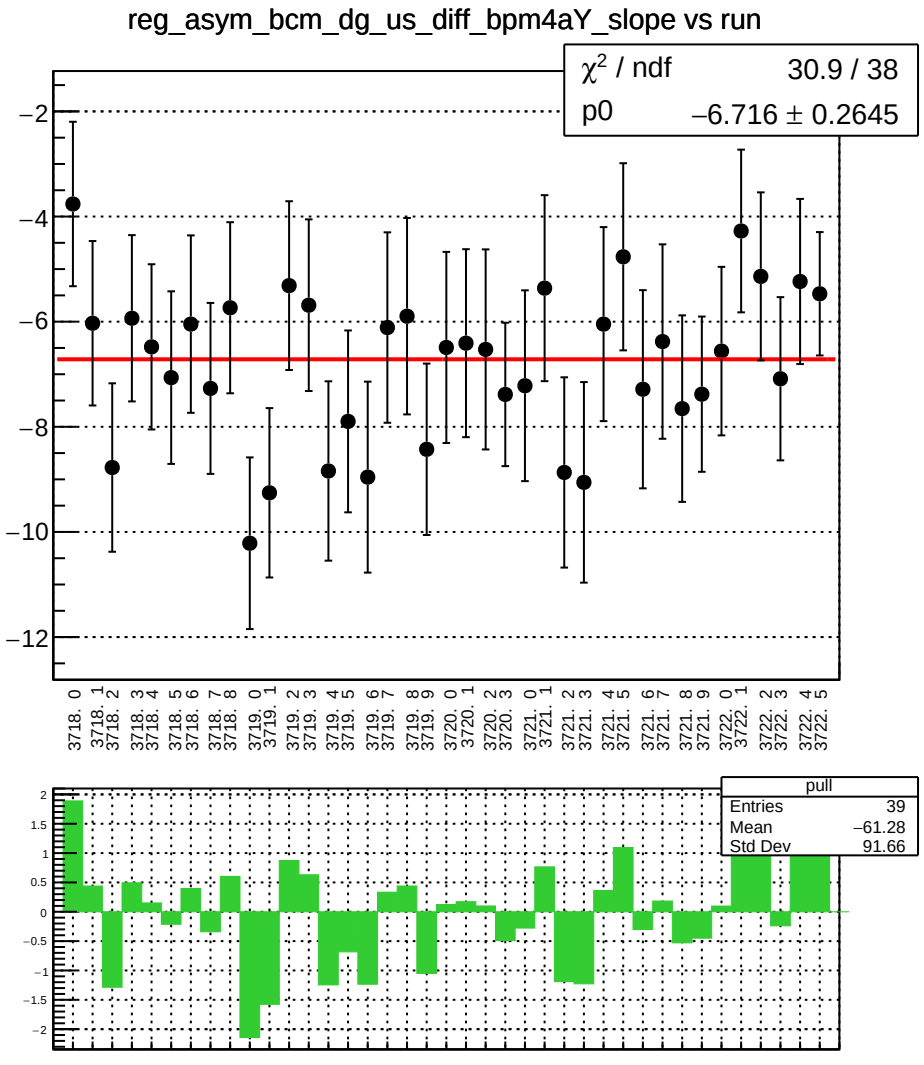

pull1D
Entries 39
Mean 0.02978
Std Dev 0.9565

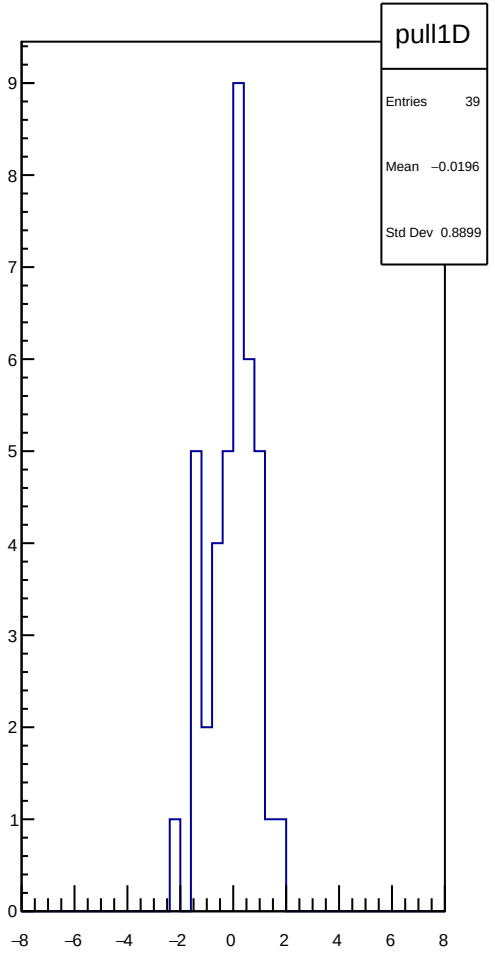

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 34.18 / 38
p0 10.7 ± 0.4072
pull
Entries 39
Mean 10.49
Std Dev 36.6

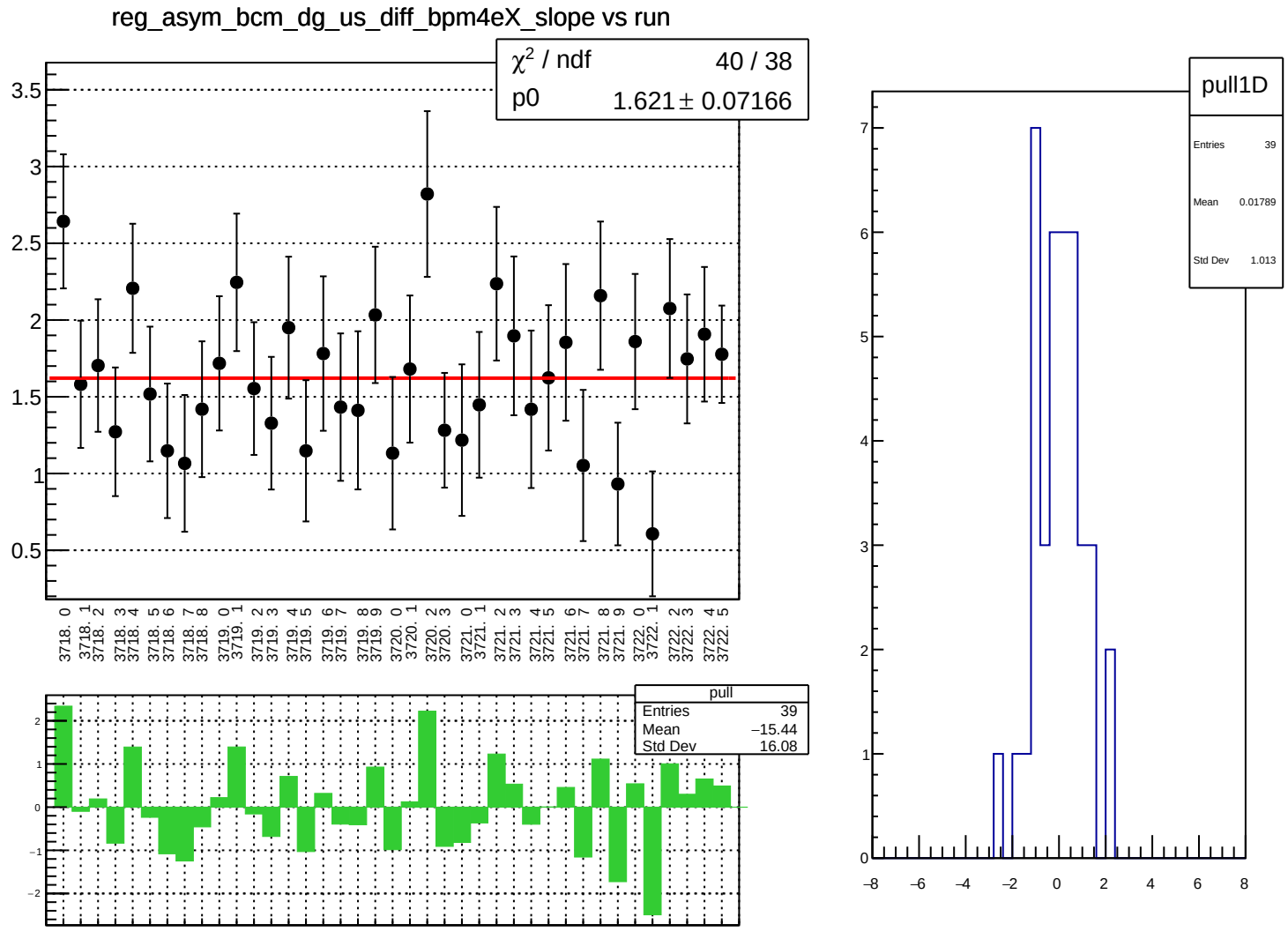

pull1D
Entries 39
Mean 0.03524
Std Dev 0.9354

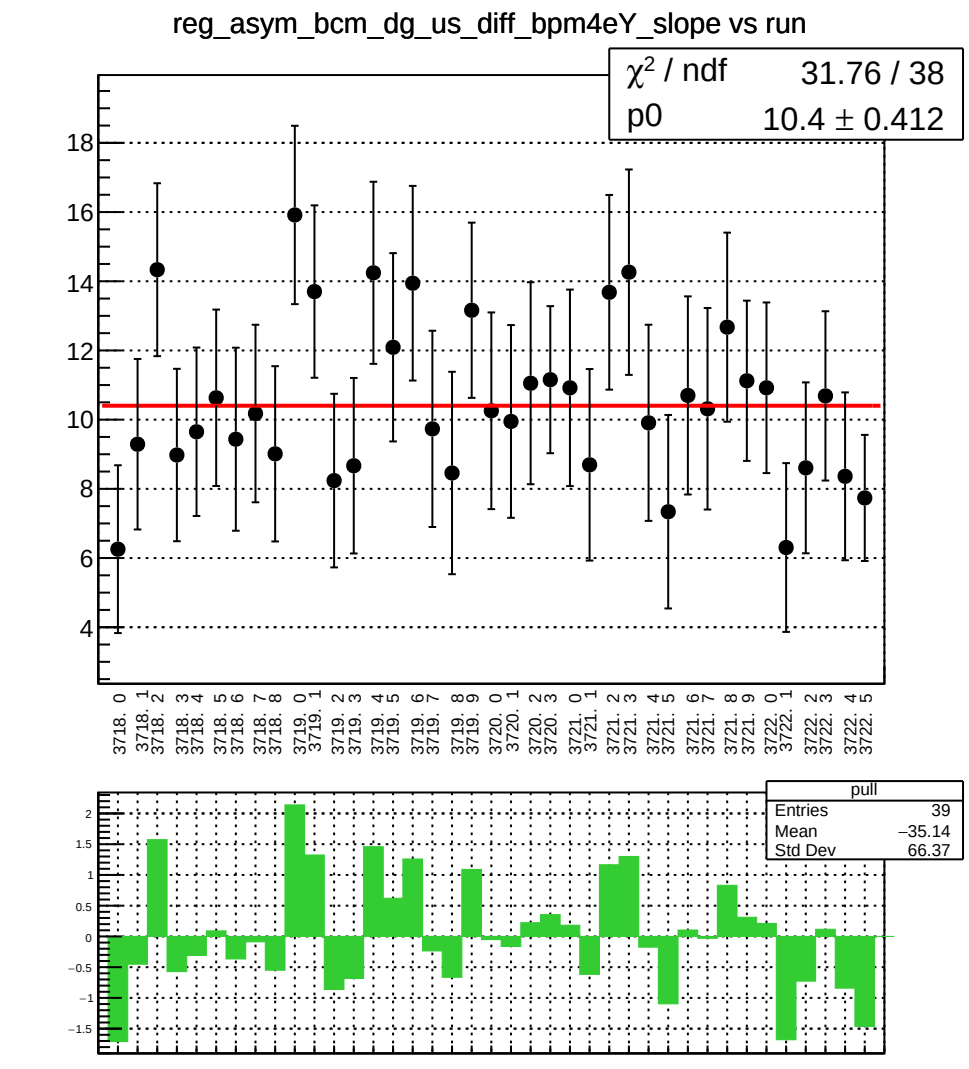

reg_asym_bcm_dg_ds_diff_bpm11X_slope vs run
χ² / ndf 53.61 / 38
p0 2.821 ± 0.06659
4.5
4
3.5
3
2.5
2
1.5
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 84.57
Std Dev 73.74
3
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.05871
Std Dev 1.171
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

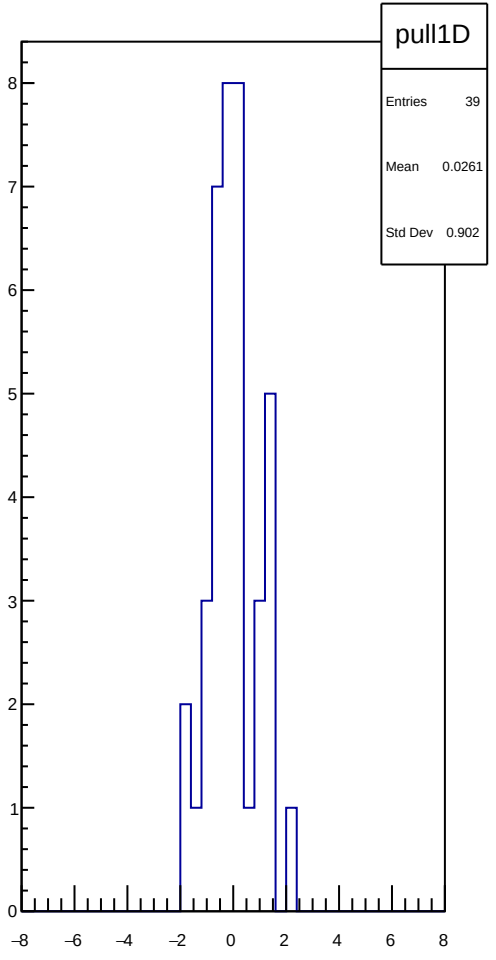

reg_asym_bcm_dg_us_diff_bpm4aX_slope vs run
χ² / ndf 58.23 / 38
p0 −0.7903 ± 0.3656
10
5
0
−5
−10
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 201.3
Std Dev 193.7
2
1
0
−1
−2
−3
pull1D
Entries 39
Mean 0.01037
Std Dev 1.222
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

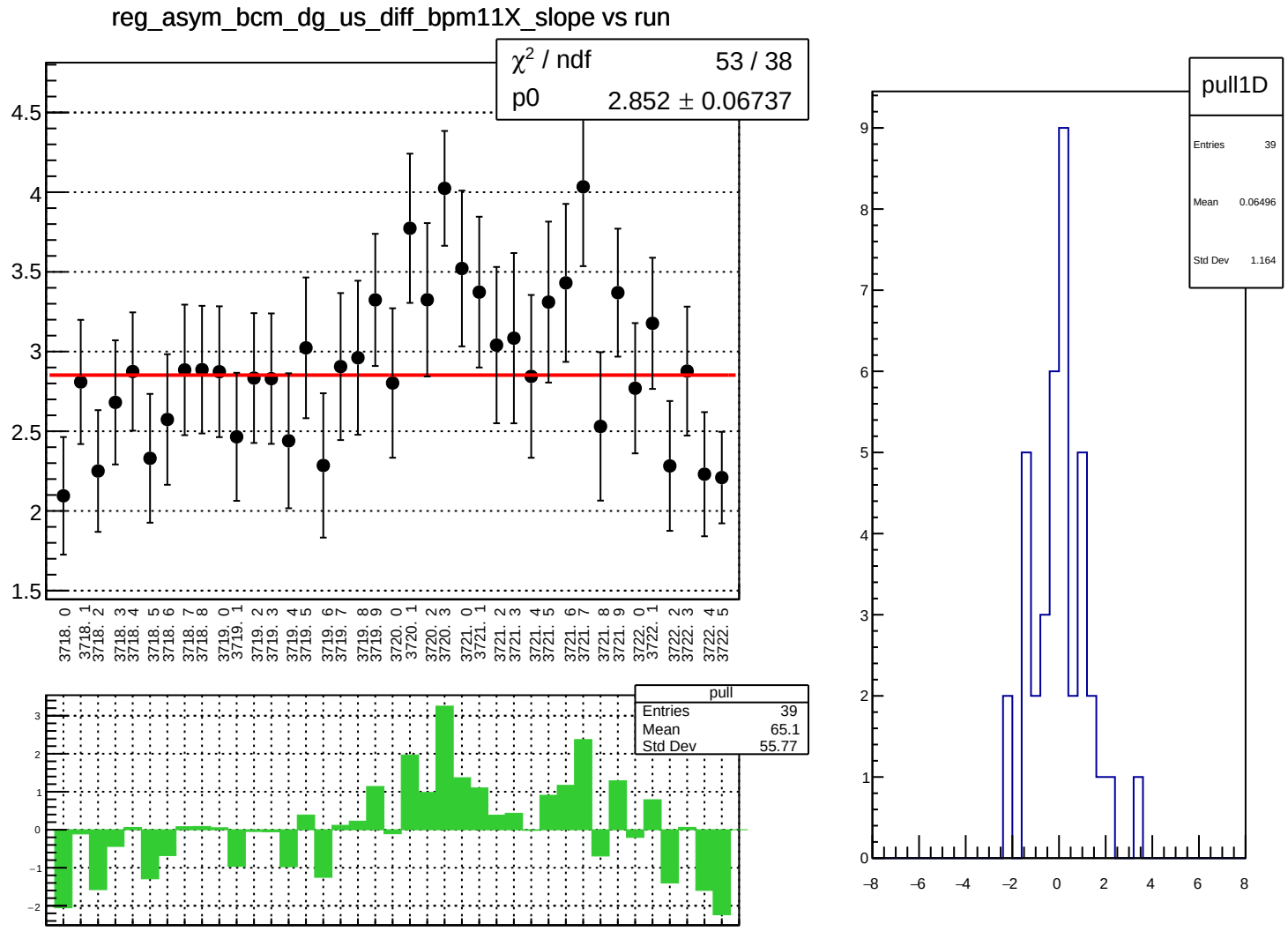

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 30.9 / 38
p0 −6.716 ± 0.2645
pull
Entries 39
Mean −61.28
Std Dev 91.66

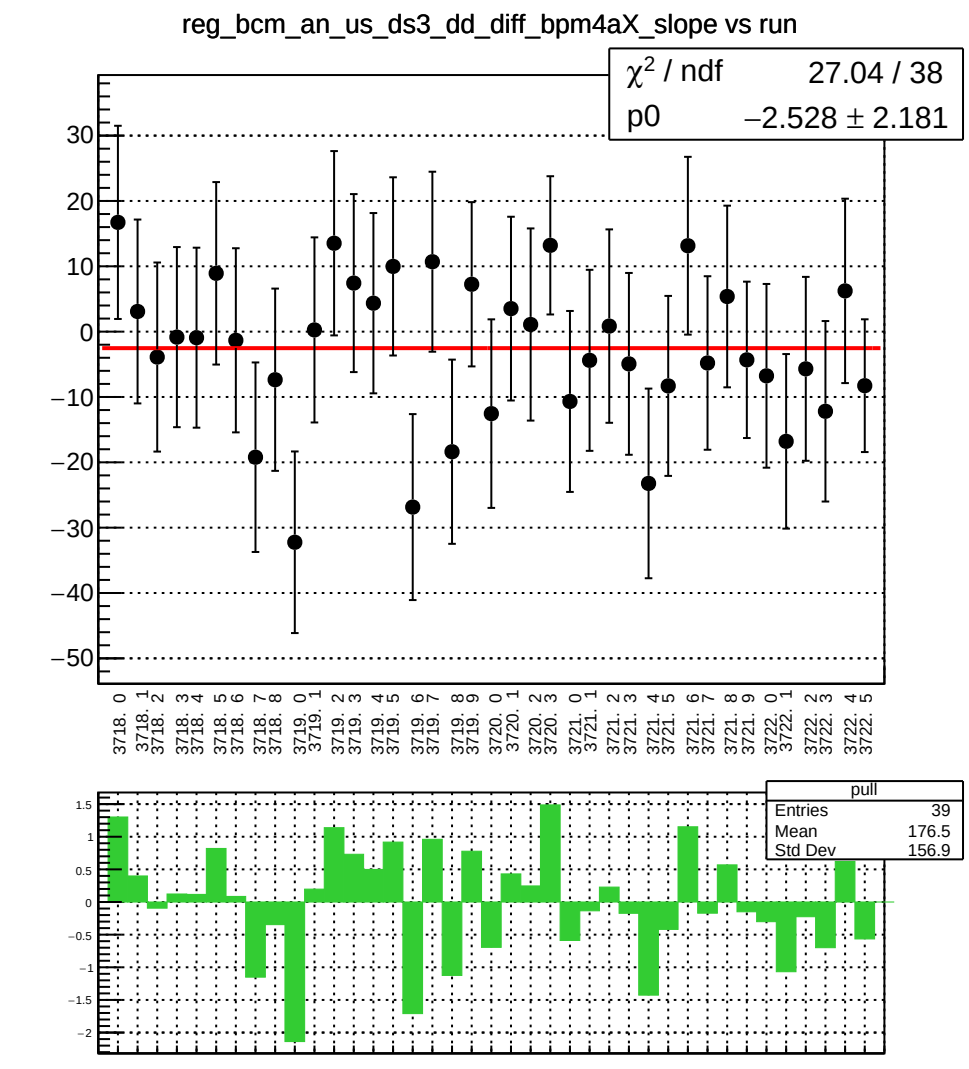

pull1D
Entries 39
Mean −0.0196
Std Dev 0.8899

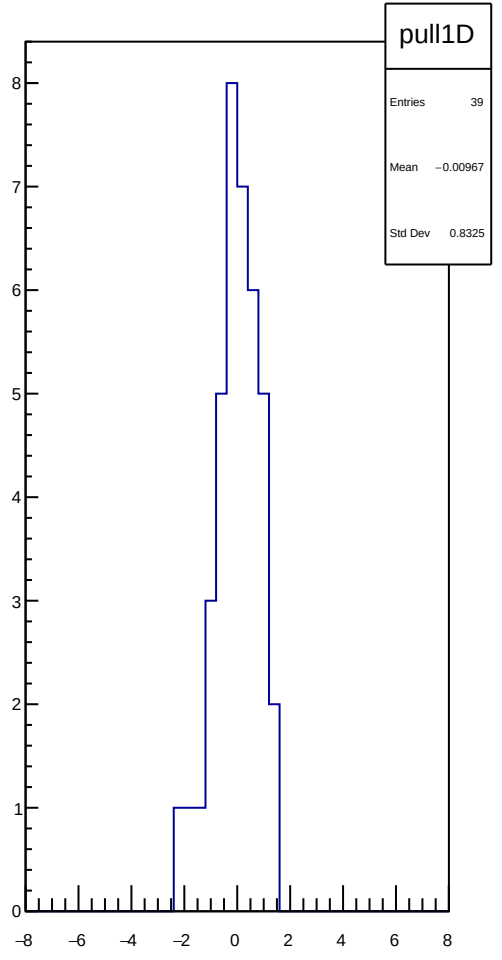

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 40 / 38
p0 1.621 ± 0.07166
pull
Entries 39
Mean −15.44
Std Dev 16.08
pull1D
Entries 39
Mean 0.01789
Std Dev 1.013

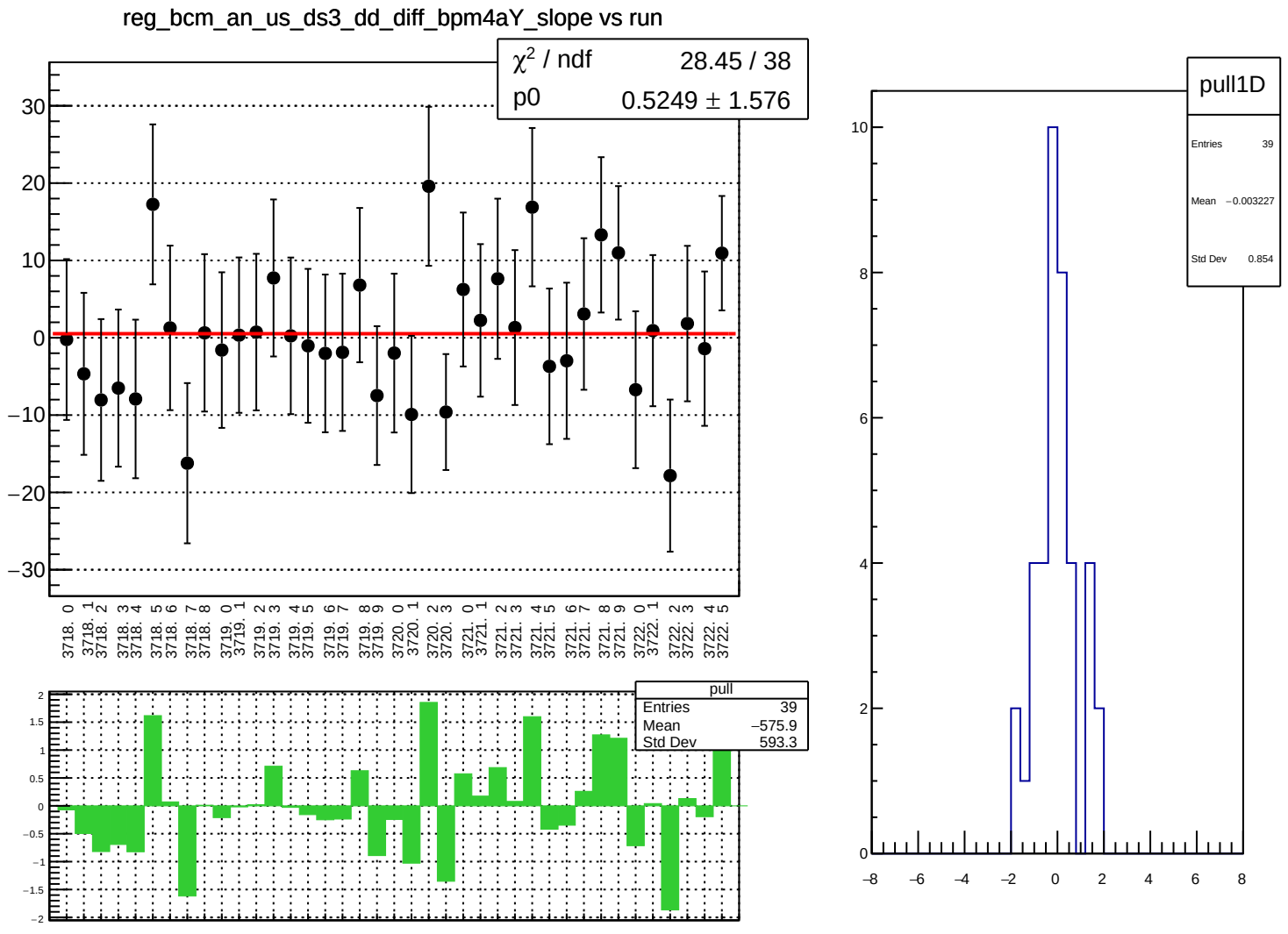

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 31.76 / 38
p0 10.4 ± 0.412
pull
Entries 39
Mean −35.14
Std Dev 66.37

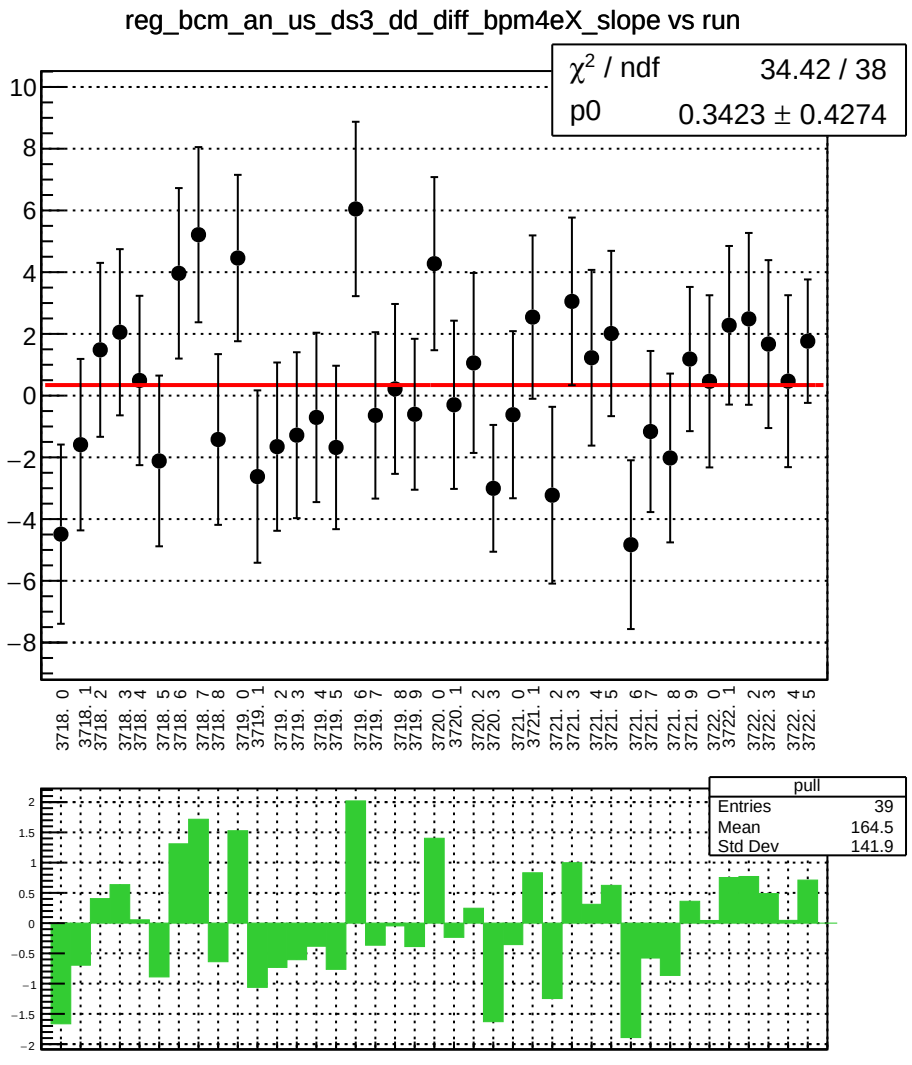

pull1D
Entries 39
Mean 0.0261
Std Dev 0.902

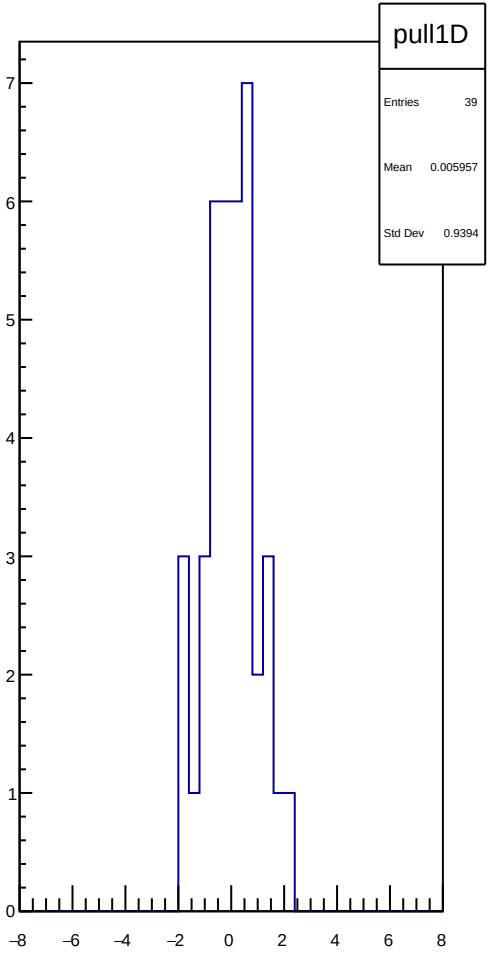

reg_asym_bcm_dg_us_diff_bpm11X_slope vs run
χ² / ndf 53 / 38
p0 2.852 ± 0.06737
pull
Entries 39
Mean 65.1
Std Dev 55.77
pull1D
Entries 39
Mean 0.06496
Std Dev 1.164

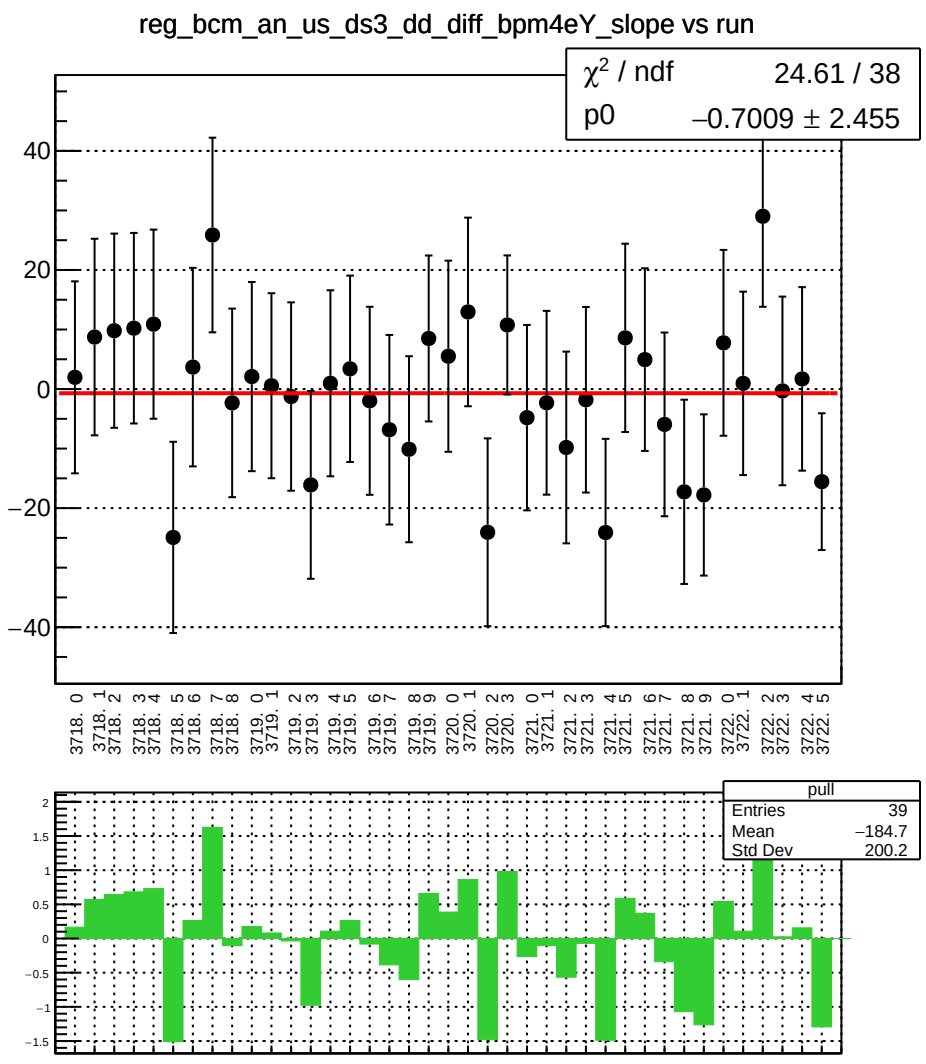

reg_bcm_an_us_ds3_dd_diff_bpm4aX_slope vs run
χ² / ndf 27.04 / 38
p0 −2.528 ± 2.181
pull
Entries 39
Mean 176.5
Std Dev 156.9

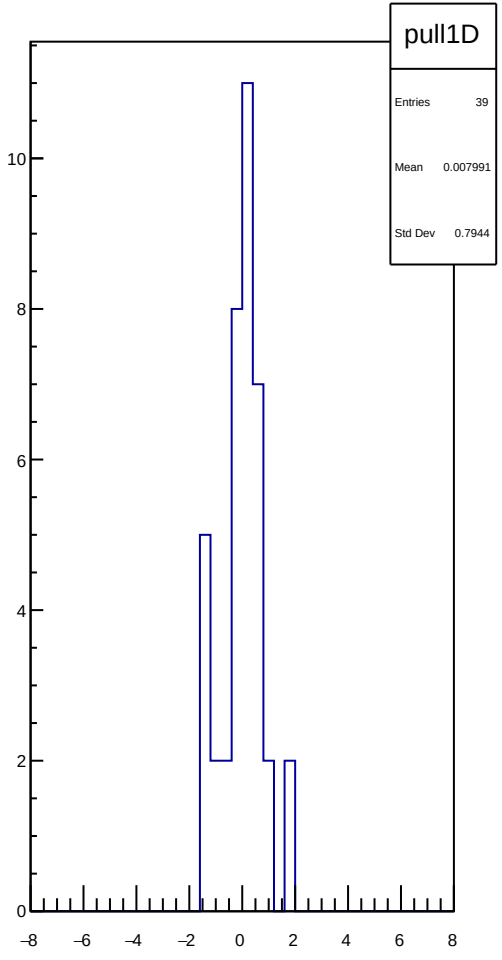

pull1D
Entries 39
Mean −0.00967
Std Dev 0.8325

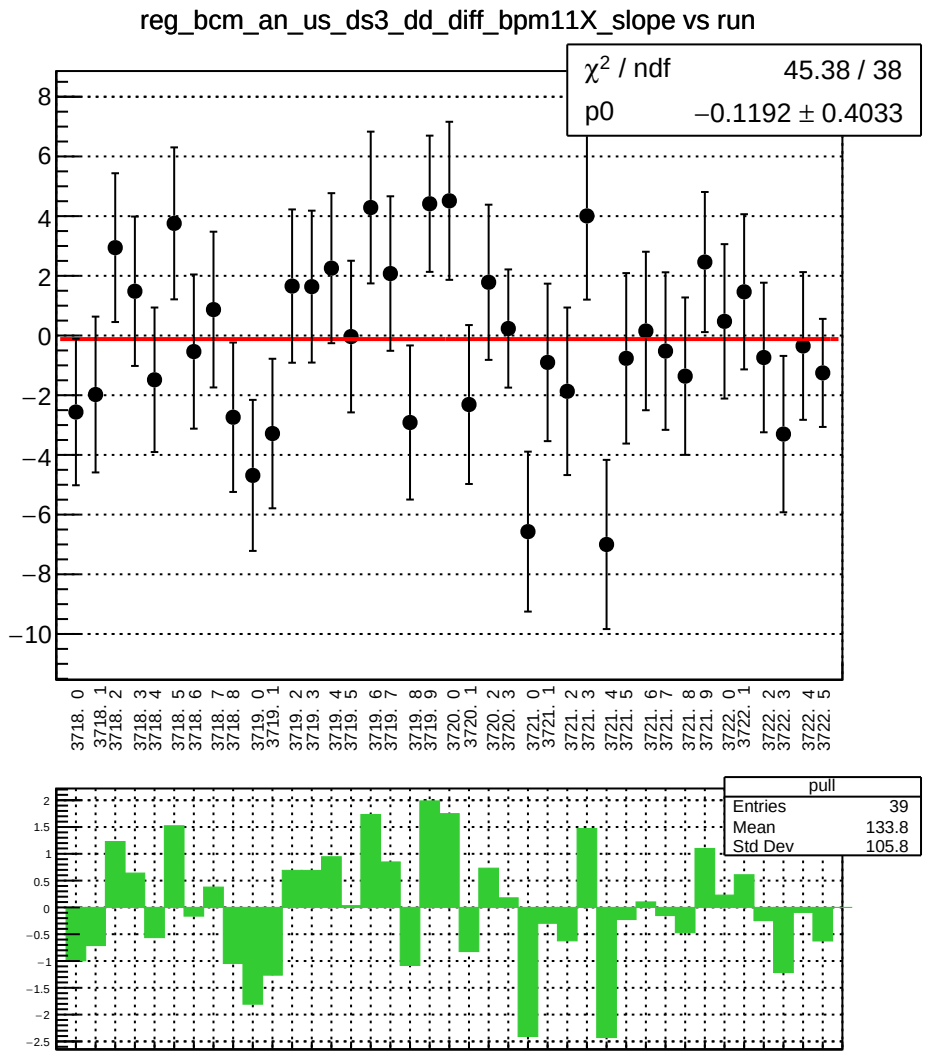

reg_bcm_an_us_ds3_dd_diff_bpm4aY_slope vs run
χ² / ndf 28.45 / 38
p0 0.5249 ± 1.576
pull
Entries 39
Mean −575.9
Std Dev 593.3
pull1D
Entries 39
Mean −0.003227
Std Dev 0.854

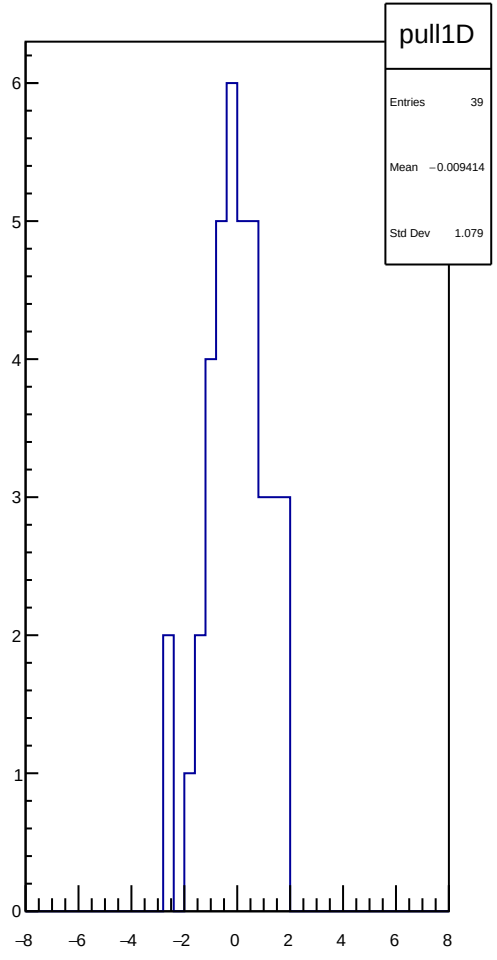

reg_bcm_an_us_ds3_dd_diff_bpm4eX_slope vs run
χ² / ndf 34.42 / 38
p0 0.3423 ± 0.4274
pull
Entries 39
Mean 164.5
Std Dev 141.9

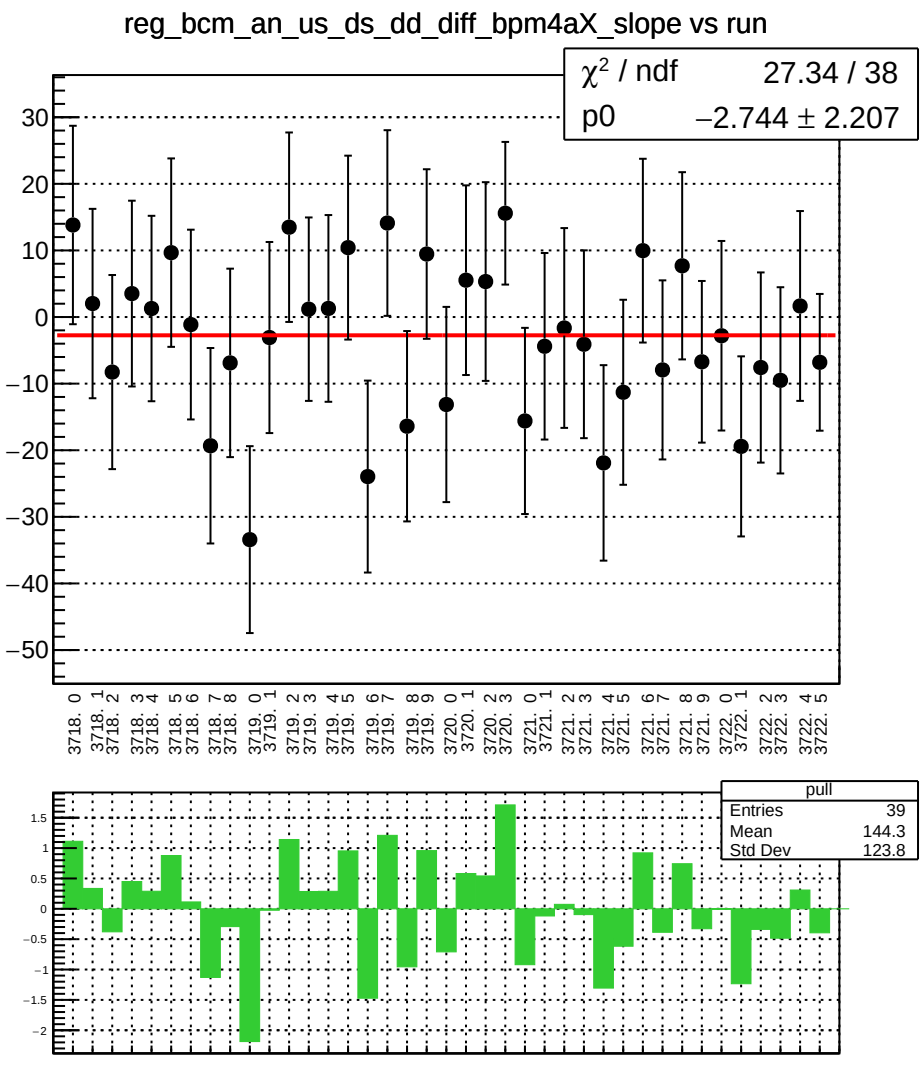

pull1D
Entries 39
Mean 0.005957
Std Dev 0.9394

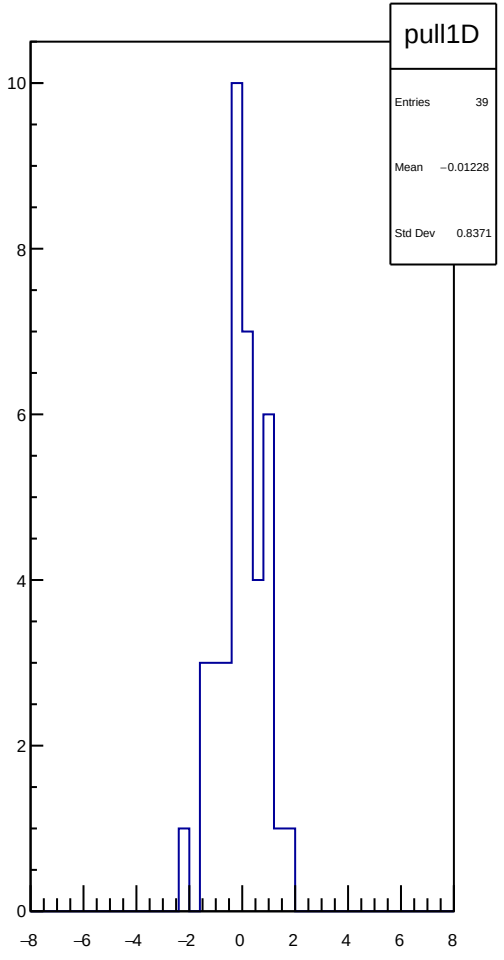

reg_bcm_an_us_ds3_dd_diff_bpm4eY_slope vs run
χ² / ndf 24.61 / 38
p0 −0.7009 ± 2.455
40
20
0
−20
−40
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −184.7
Std Dev 200.2
2
1.5
1
0.5
0
−0.5
−1
−1.5

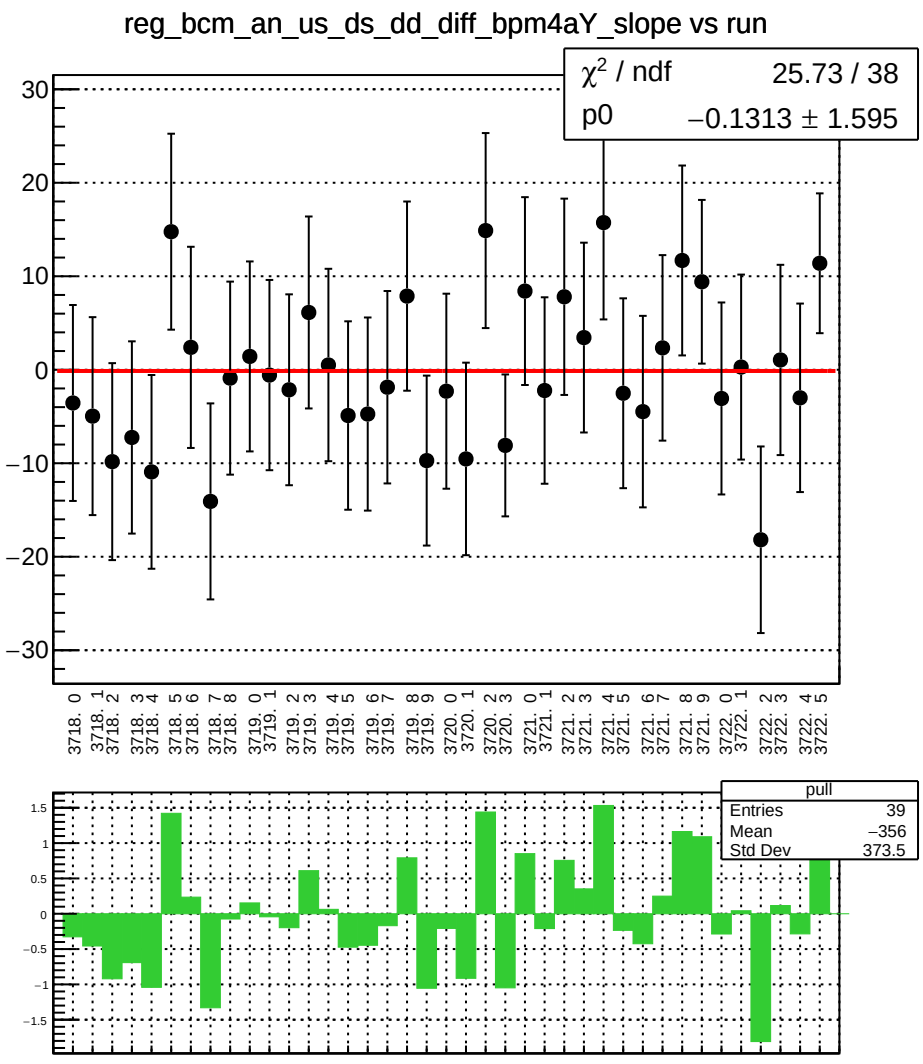

pull1D
Entries 39
Mean 0.007991
Std Dev 0.7944
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

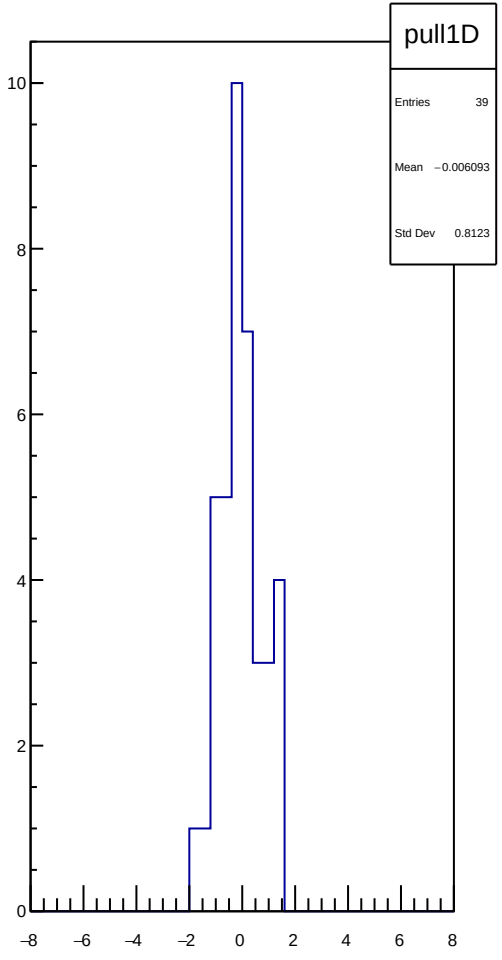

reg_bcm_an_us_ds3_dd_diff_bpm11X_slope vs run
χ² / ndf 45.38 / 38
p0 −0.1192 ± 0.4033
pull
Entries 39
Mean 133.8
Std Dev 105.8

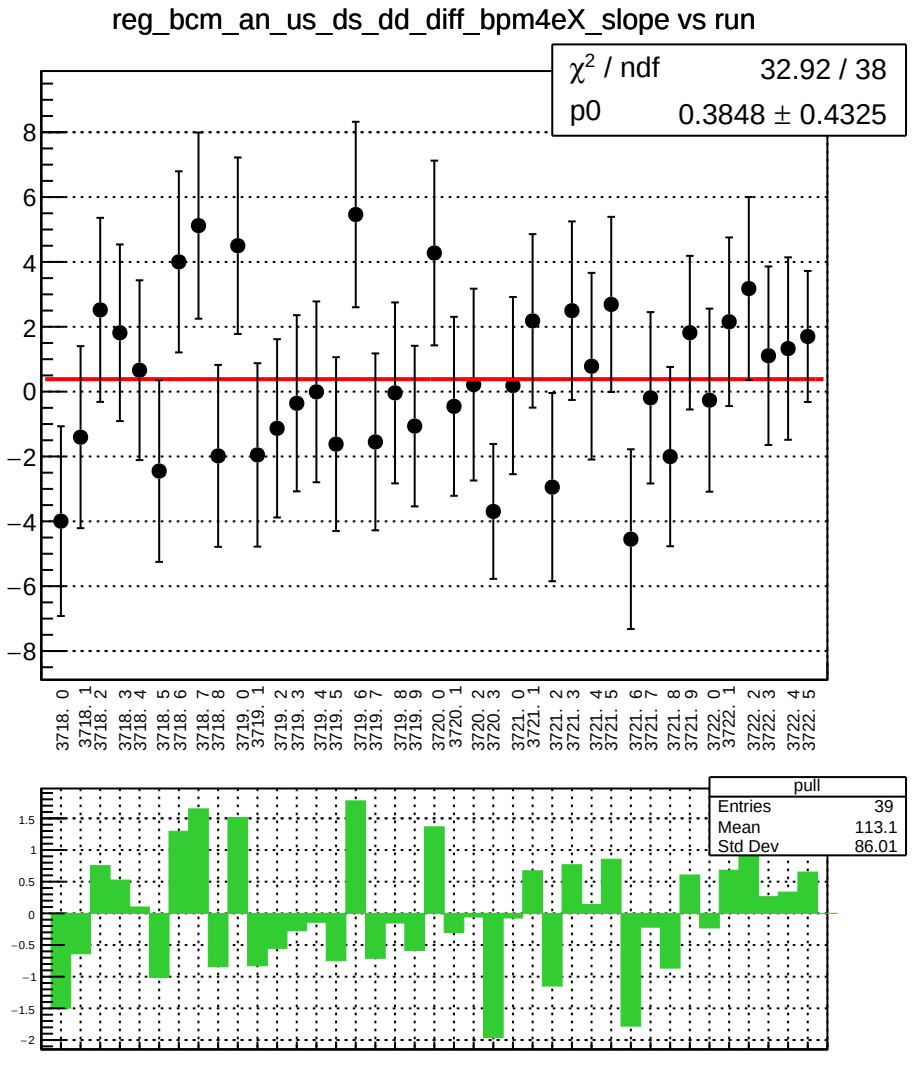

pull1D
Entries 39
Mean −0.009414
Std Dev 1.079

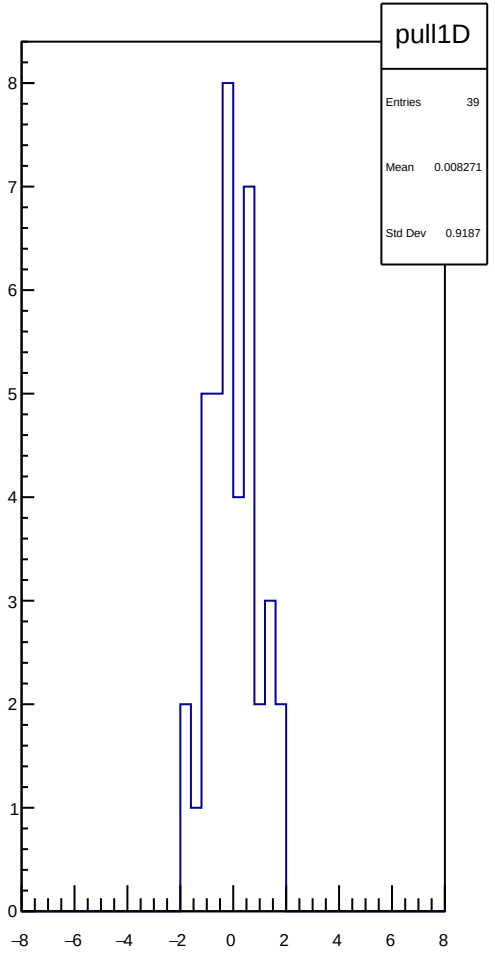

reg_bcm_an_us_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 27.34 / 38
p0 −2.744 ± 2.207
pull
Entries 39
Mean 144.3
Std Dev 123.8

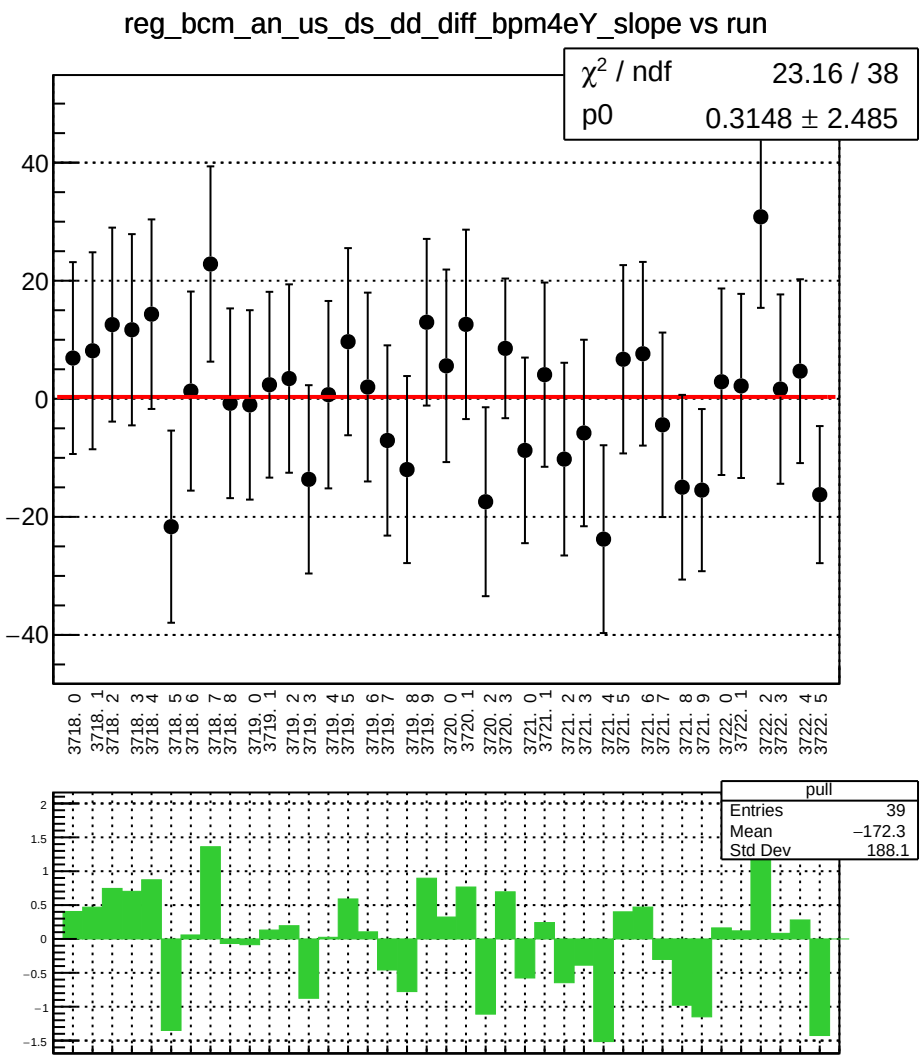

pull1D
Entries 39
Mean −0.01228
Std Dev 0.8371

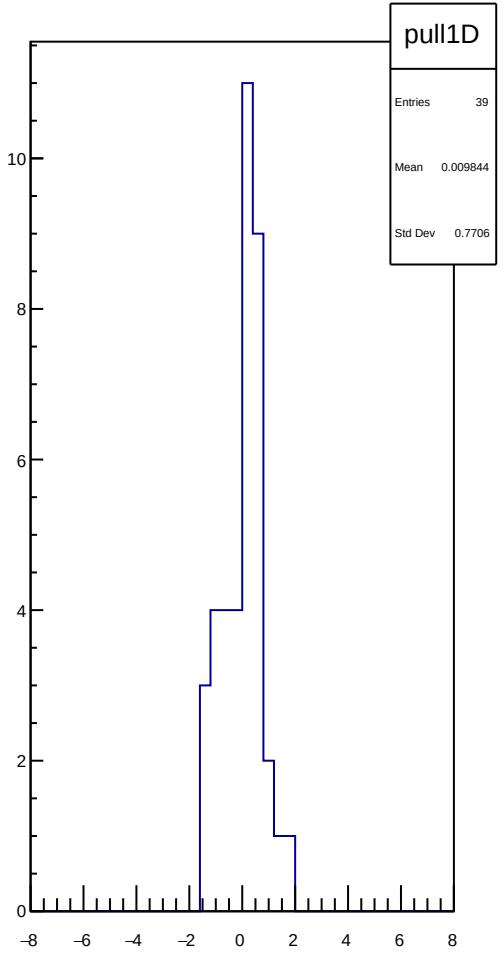

reg_bcm_an_us_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 25.73 / 38
p0 −0.1313 ± 1.595
pull
Entries 39
Mean −356
Std Dev 373.5

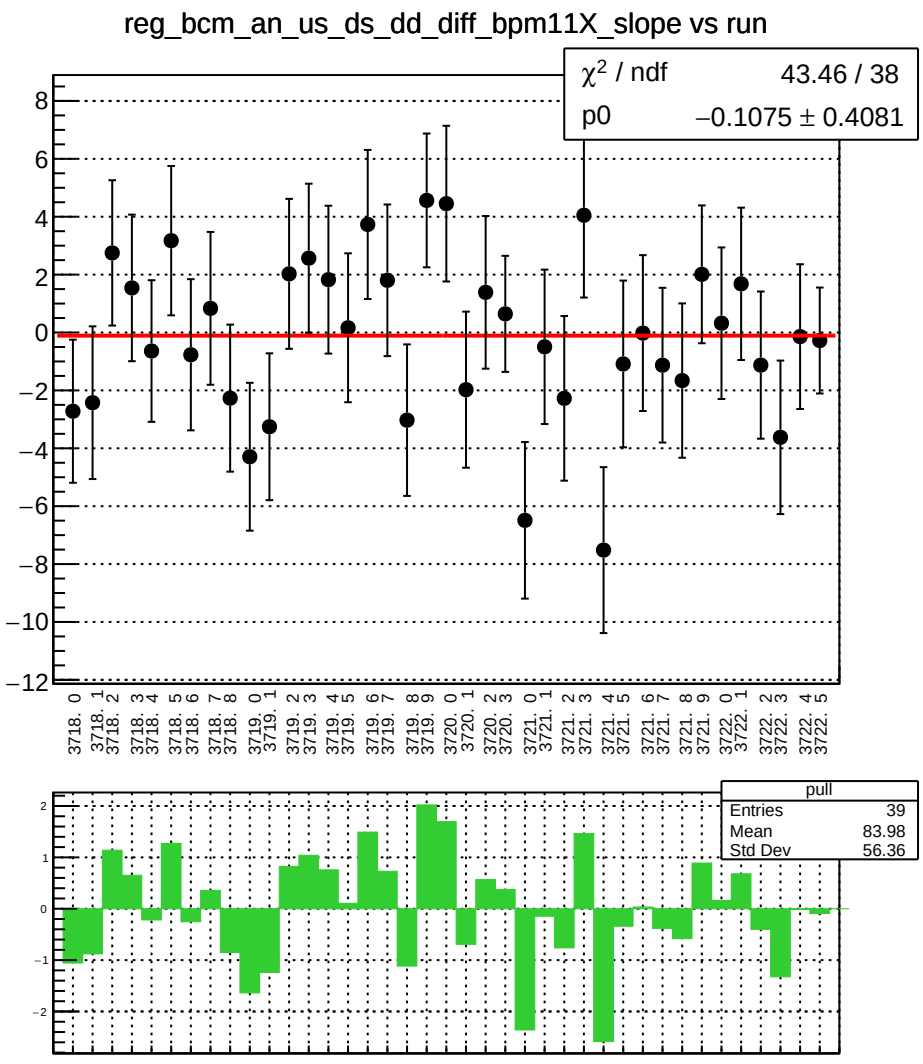

pull1D
Entries 39
Mean −0.006093
Std Dev 0.8123

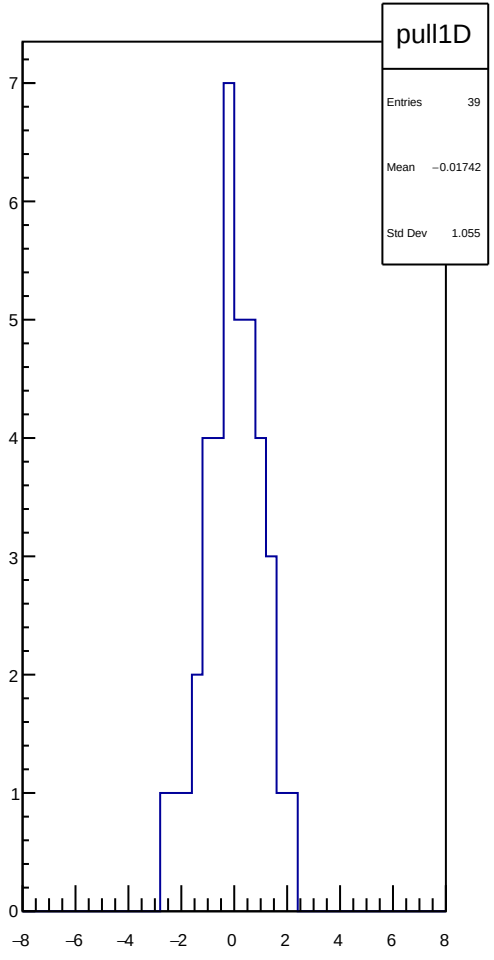

reg_bcm_an_us_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 32.92 / 38
p0 0.3848 ± 0.4325
pull
Entries 39
Mean 113.1
Std Dev 86.01

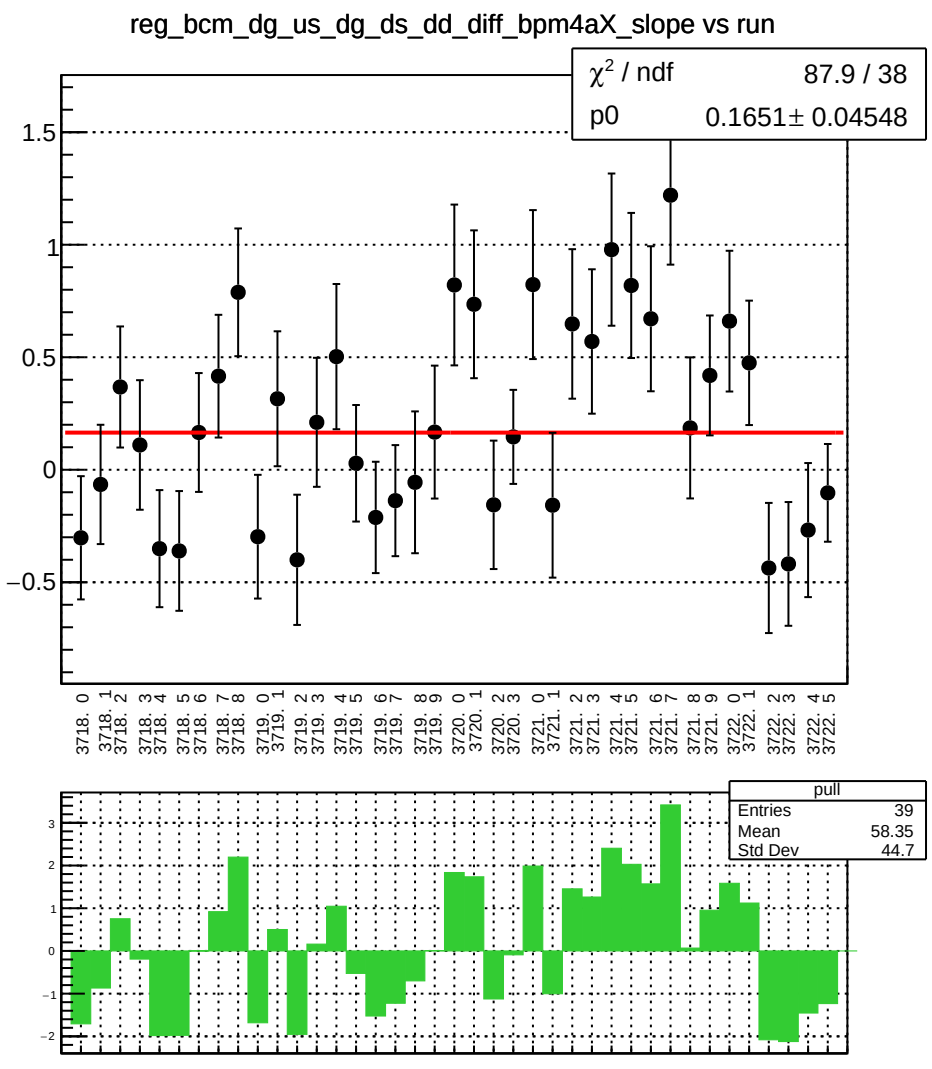

pull1D
Entries 39
Mean 0.008271
Std Dev 0.9187

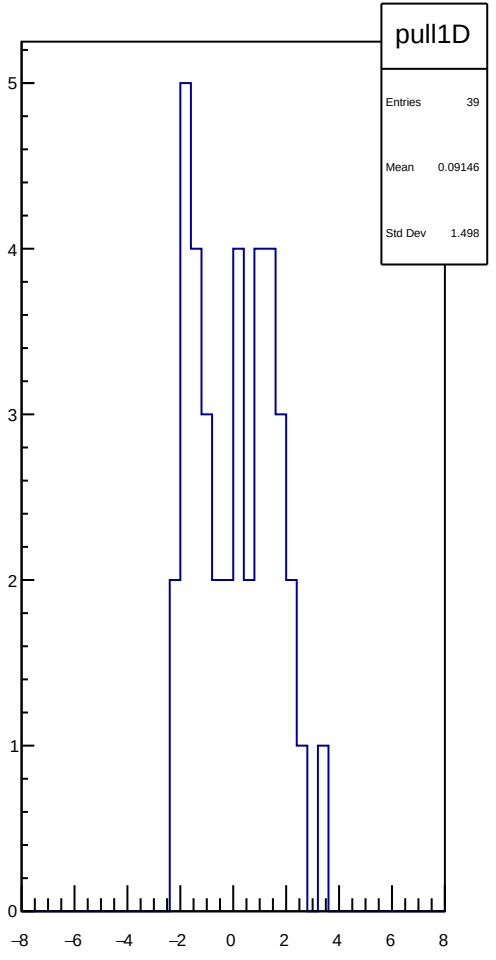

reg_bcm_an_us_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 23.16 / 38
p0 0.3148 ± 2.485
40
20
0
−20
−40
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean −172.3
Std Dev 188.1
2
1.5
1
0.5
0
−0.5
−1
−1.5

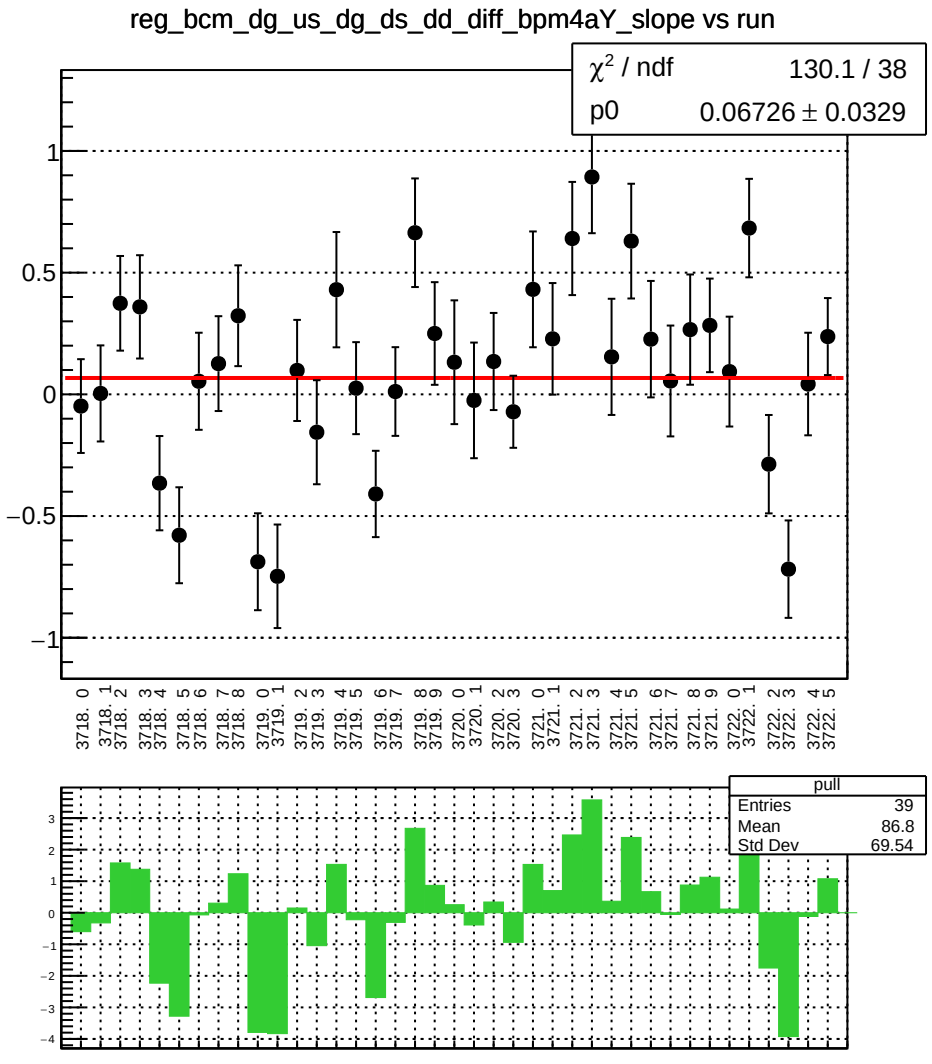

pull1D
Entries 39
Mean 0.009844
Std Dev 0.7706
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

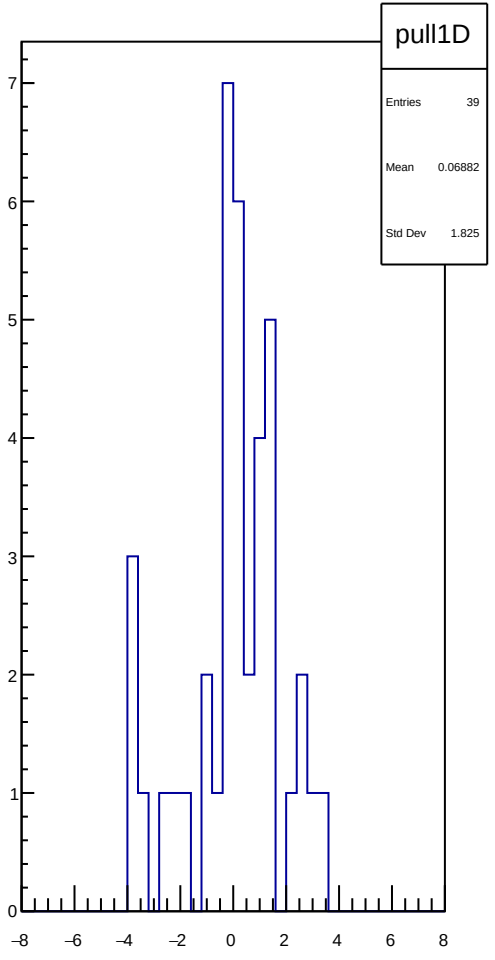

reg_bcm_an_us_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 43.46 / 38
p0 −0.1075 ± 0.4081
pull
Entries 39
Mean 83.98
Std Dev 56.36

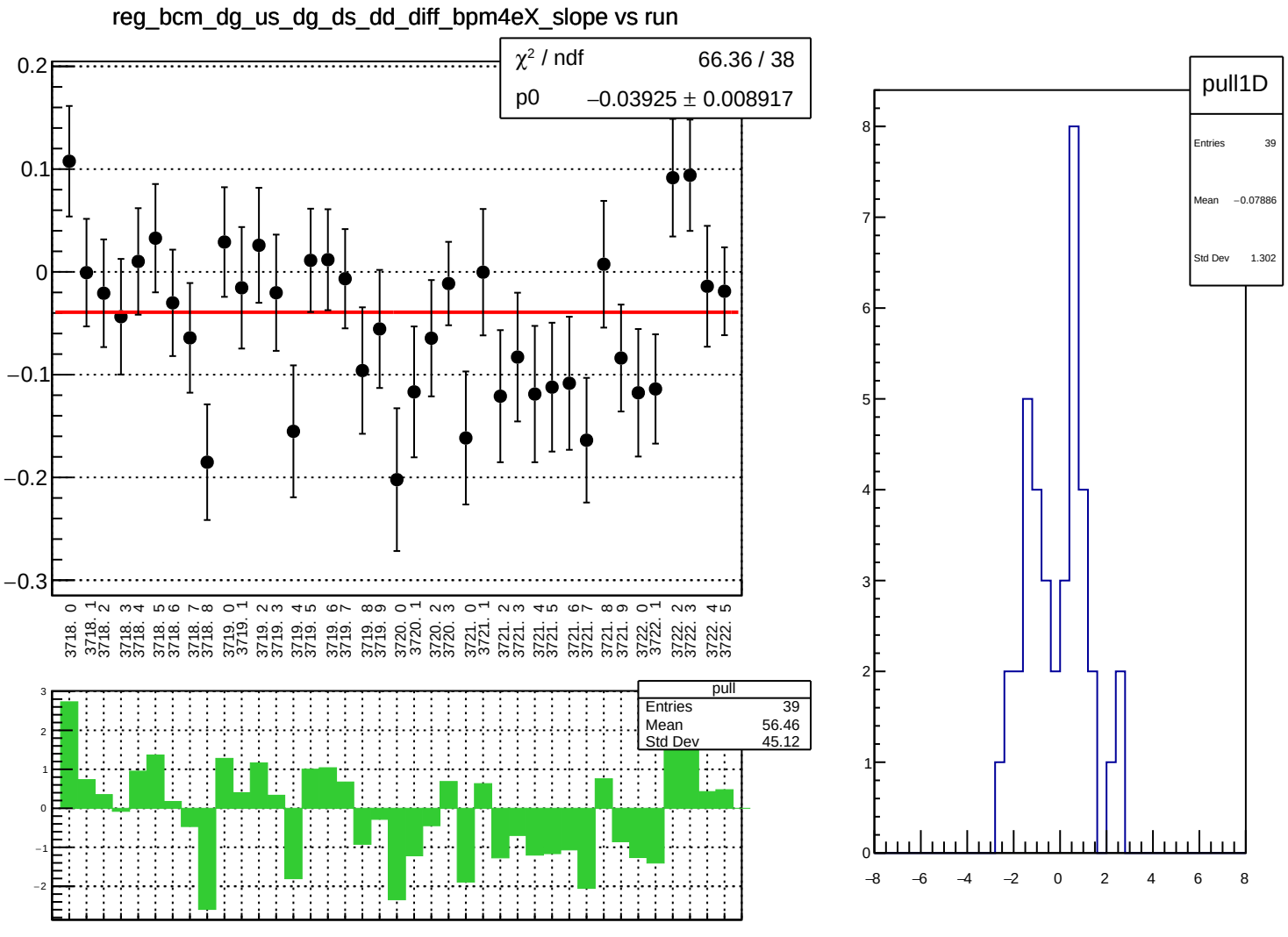

pull1D
Entries 39
Mean −0.01742
Std Dev 1.055

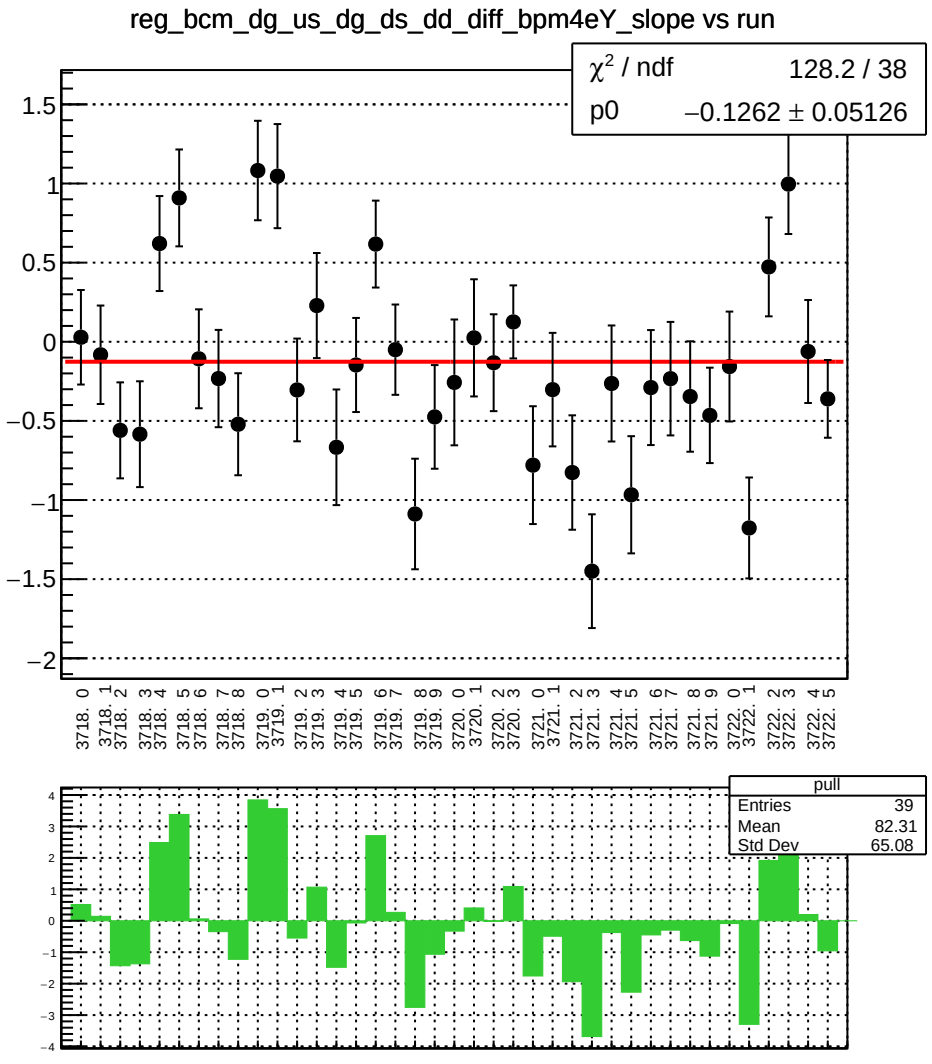

reg_bcm_dg_us_dg_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 87.9 / 38
p0 0.1651± 0.04548
1.5
1
0.5
0
−0.5
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 58.35
Std Dev 44.7
3
2
1
0
−1
−2

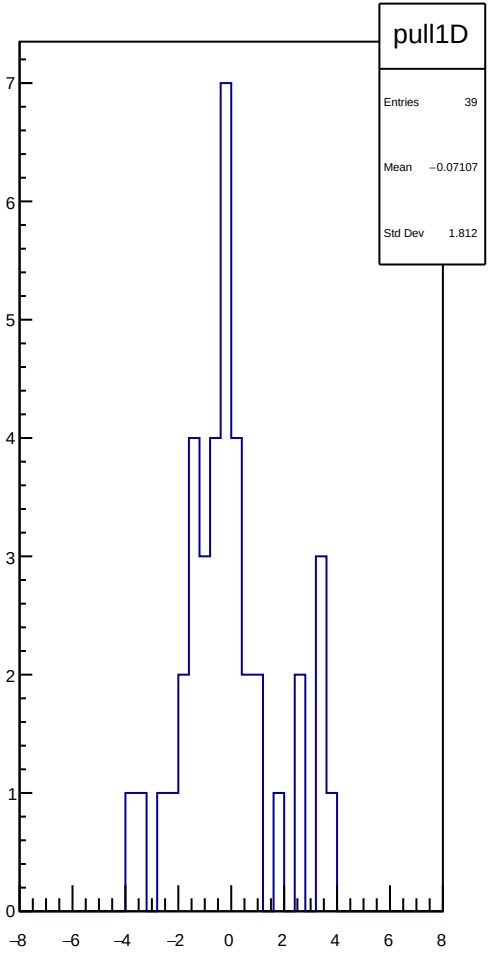

pull1D
Entries 39
Mean 0.09146
Std Dev 1.498
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

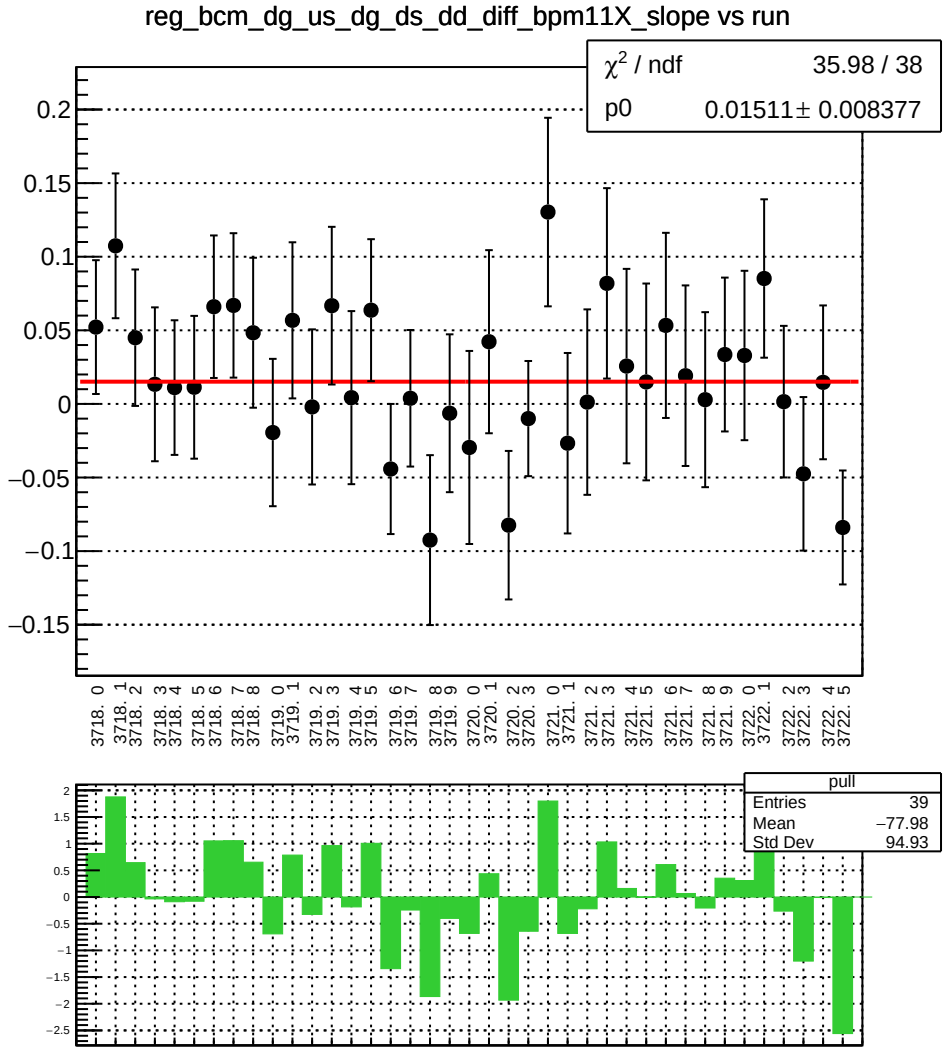

reg_bcm_dg_us_dg_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 130.1 / 38
p0 0.06726 ± 0.0329
pull
Entries 39
Mean 86.8
Std Dev 69.54

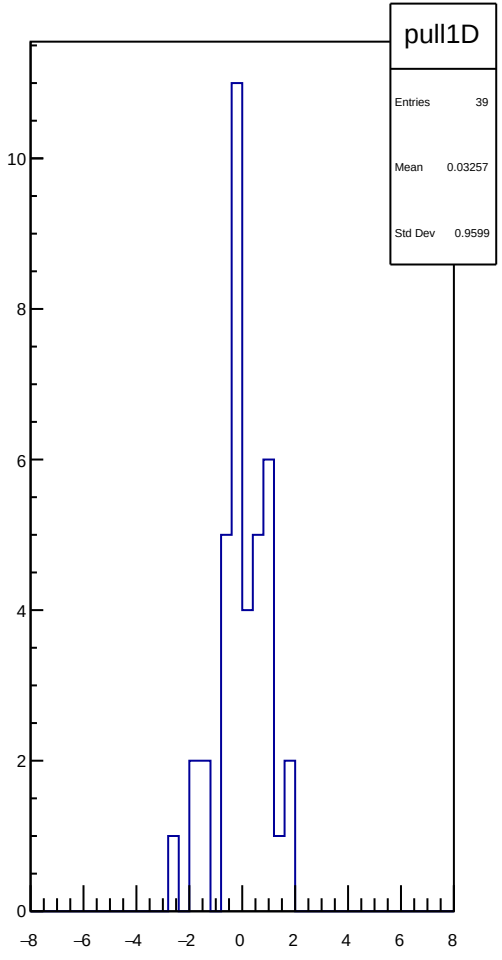

pull1D
Entries 39
Mean 0.06882
Std Dev 1.825

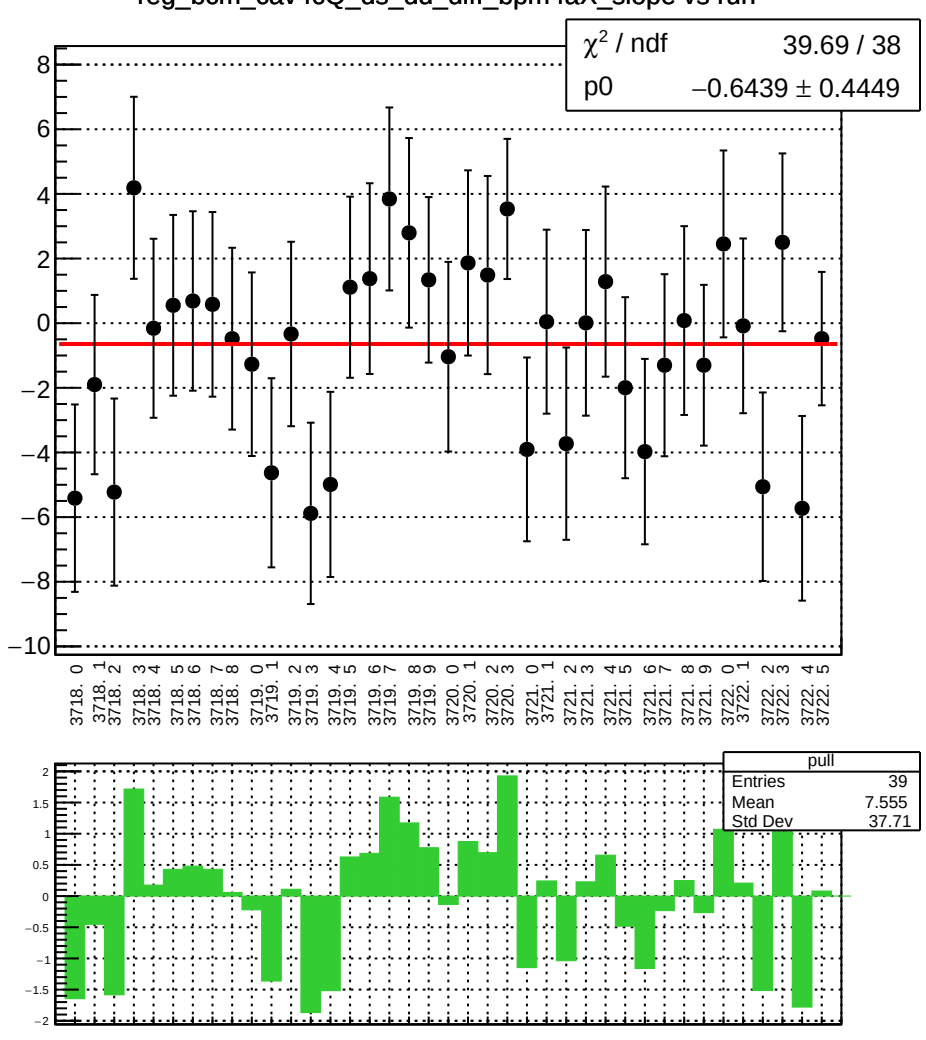

reg_bcm_dg_us_dg_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 66.36 / 38
p0 −0.03925 ± 0.008917
0.2
0.1
0
−0.1
−0.2
−0.3
3718. 0
3718. 1
3718. 2
3718. 3
3718. 4
3718. 5
3718. 6
3718. 7
3718. 8
3719. 0
3719. 1
3719. 2
3719. 3
3719. 4
3719. 5
3719. 6
3719. 7
3719. 8
3719. 9
3720. 0
3720. 1
3720. 2
3720. 3
3721. 0
3721. 1
3721. 2
3721. 3
3721. 4
3721. 5
3721. 6
3721. 7
3721. 8
3721. 9
3722. 0
3722. 1
3722. 2
3722. 3
3722. 4
3722. 5
pull
Entries 39
Mean 56.46
Std Dev 45.12
3
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.07886
Std Dev 1.302
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

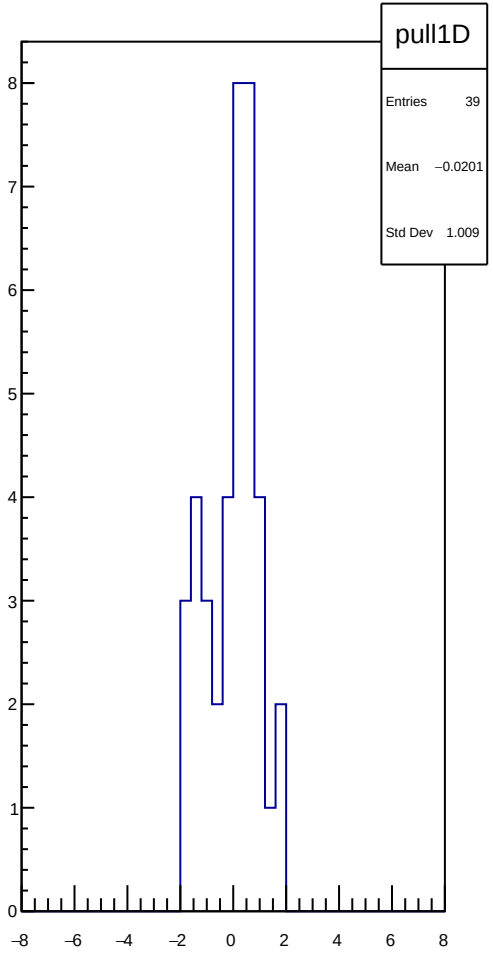

reg_bcm_dg_us_dg_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 128.2 / 38
p0 −0.1262 ± 0.05126
pull
Entries 39
Mean 82.31
Std Dev 65.08

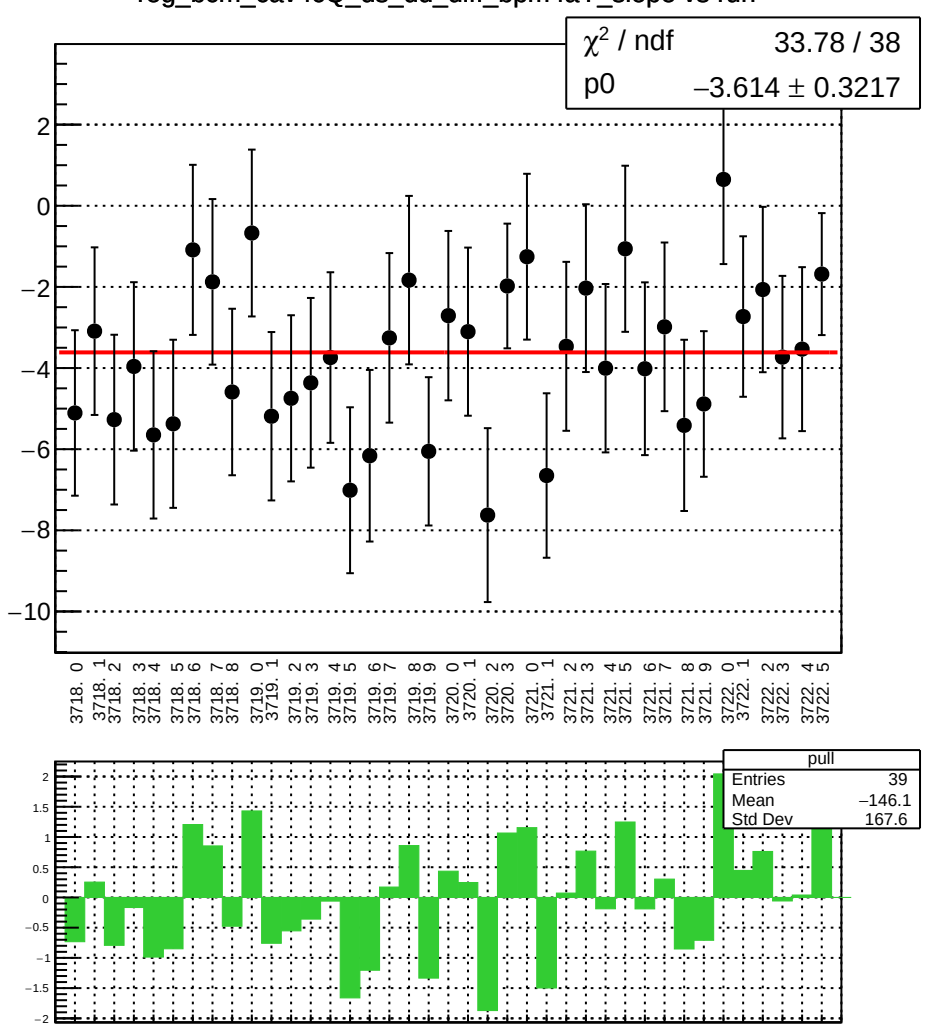

pull1D
Entries 39
Mean −0.07107
Std Dev 1.812

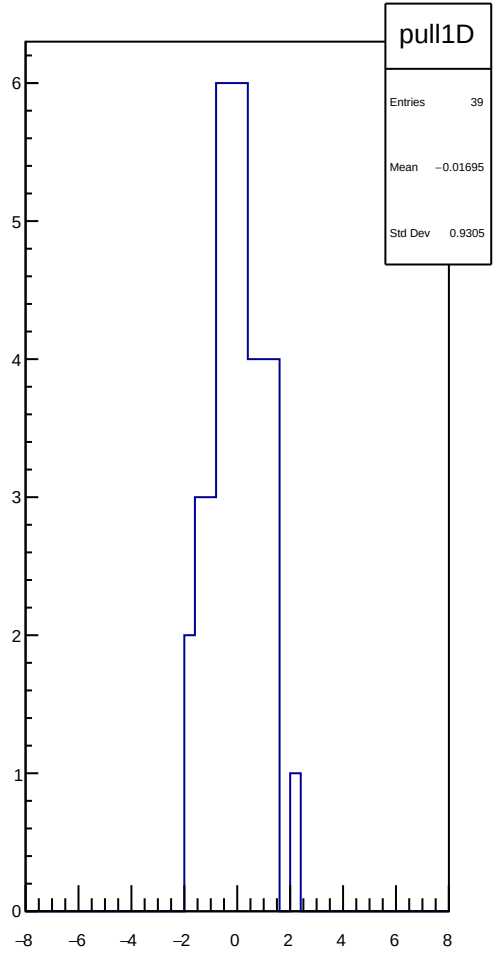

reg_bcm_dg_us_dg_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 35.98 / 38
p0 0.01511± 0.008377
pull
Entries 39
Mean −77.98
Std Dev 94.93

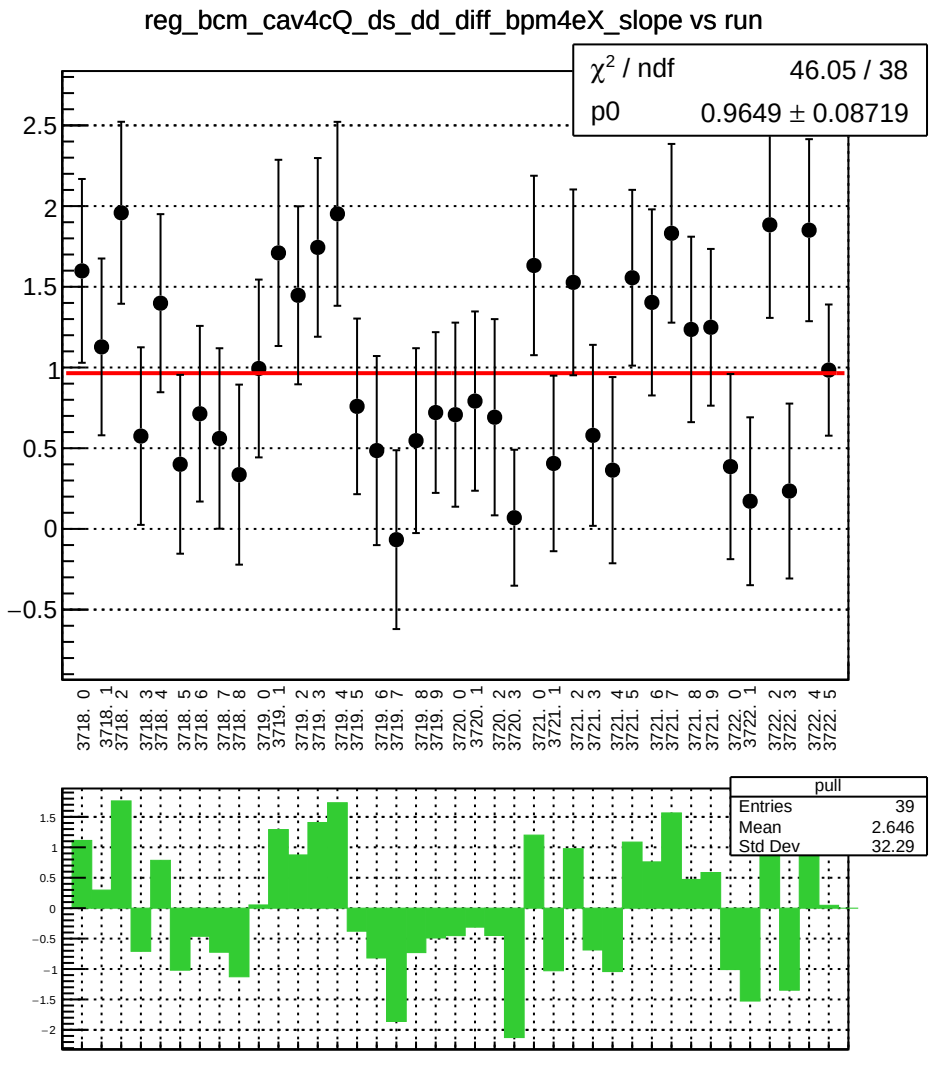

pull1D
Entries 39
Mean 0.03257
Std Dev 0.9599

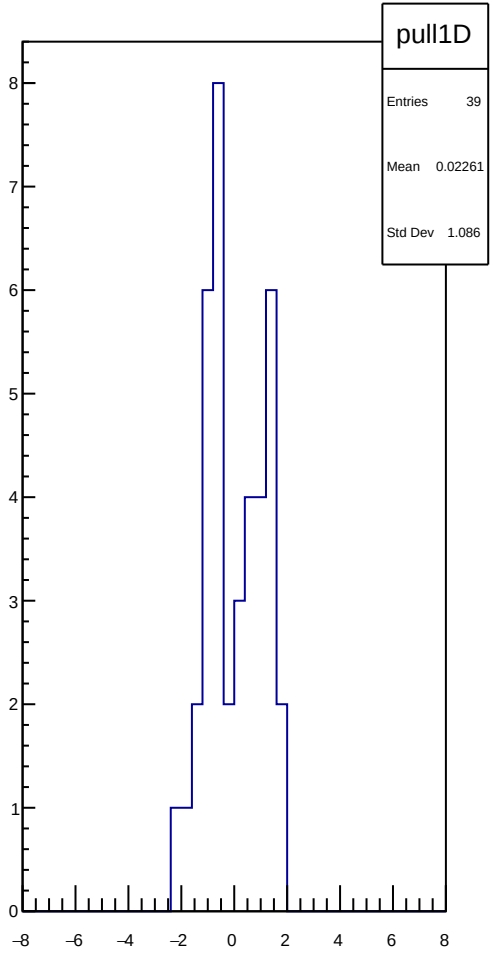

reg_bcm_cav4cQ_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 39.69 / 38
p0 −0.6439 ± 0.4449
pull
Entries 39
Mean 7.555
Std Dev 37.71

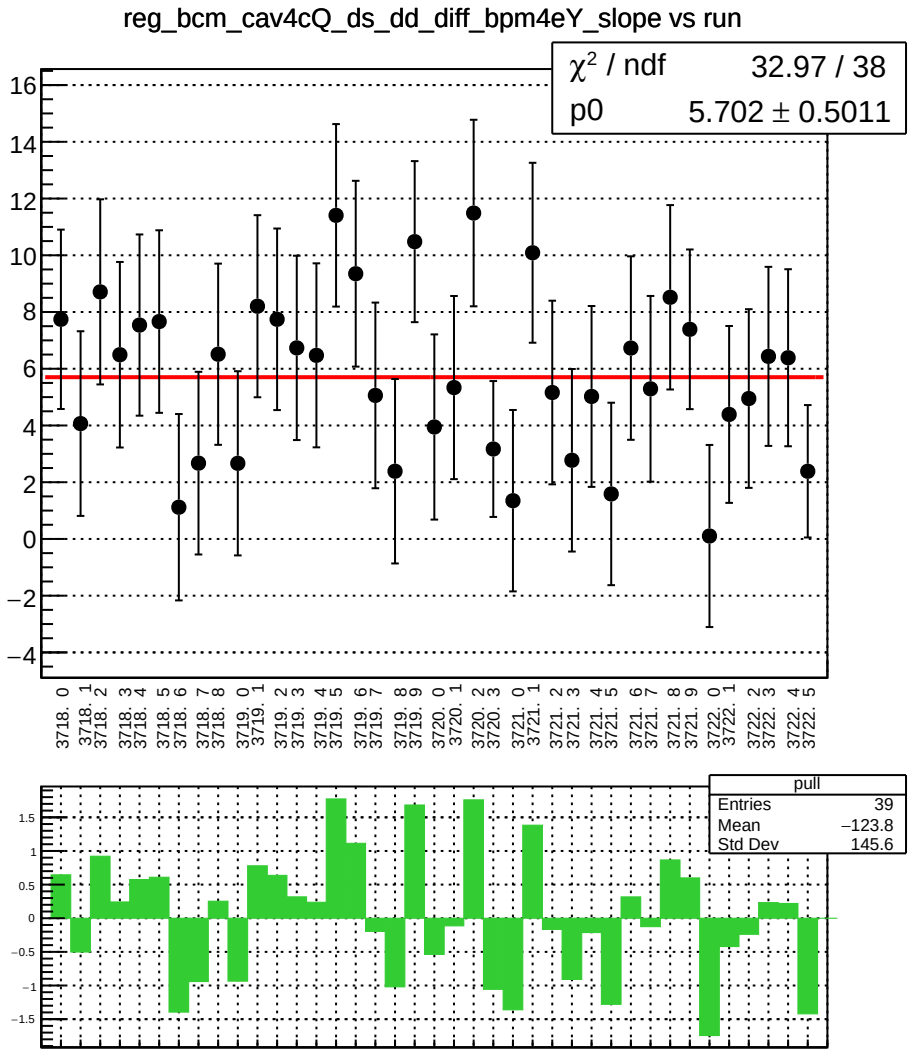

pull1D
Entries 39
Mean −0.0201
Std Dev 1.009

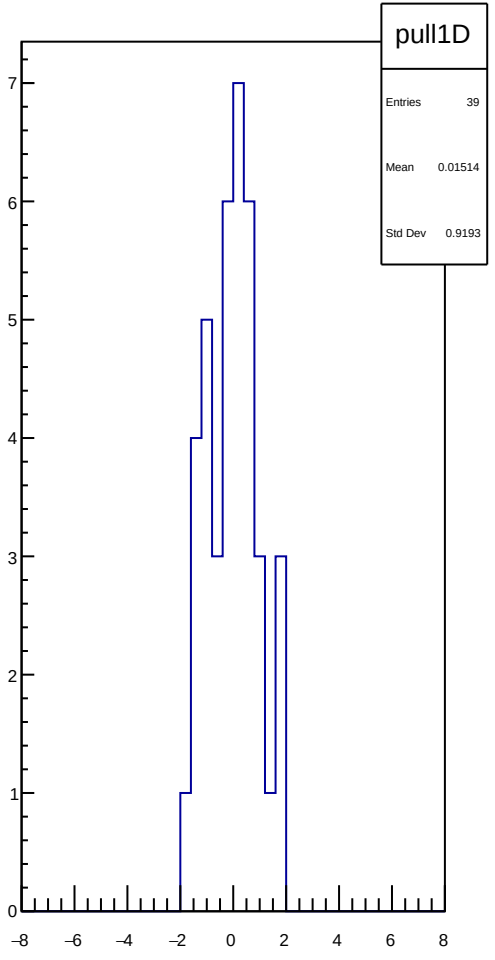

reg_bcm_cav4cQ_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 33.78 / 38
p0 −3.614 ± 0.3217
pull
Entries 39
Mean −146.1
Std Dev 167.6

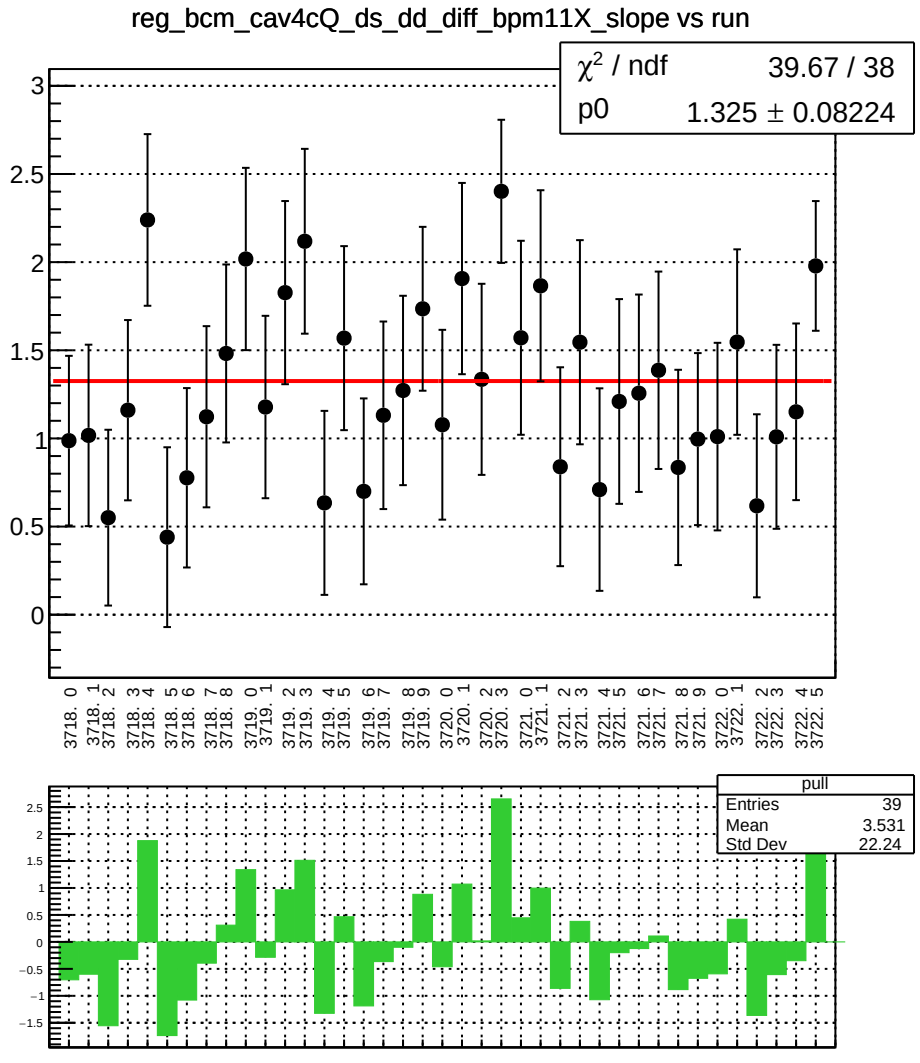

pull1D
Entries 39
Mean −0.01695
Std Dev 0.9305

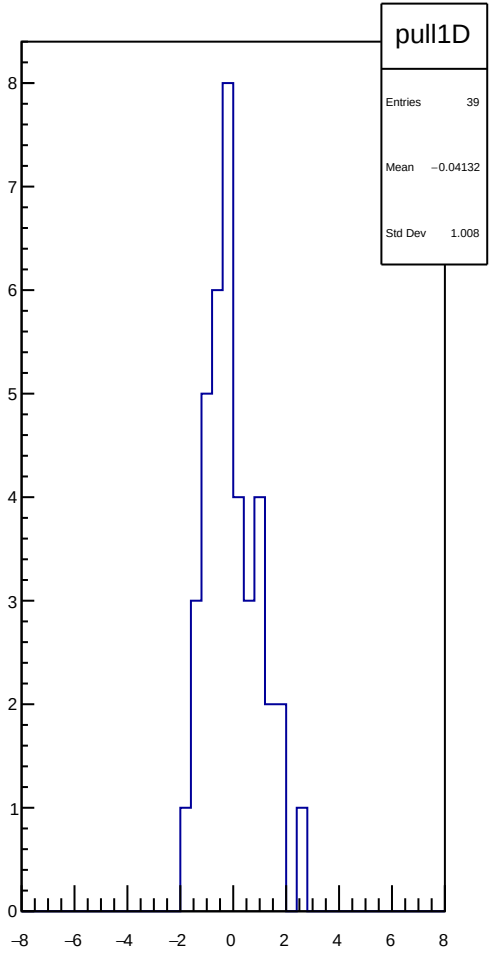

reg_bcm_cav4cQ_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 46.05 / 38
p0 0.9649 ± 0.08719
pull
Entries 39
Mean 2.646
Std Dev 32.29

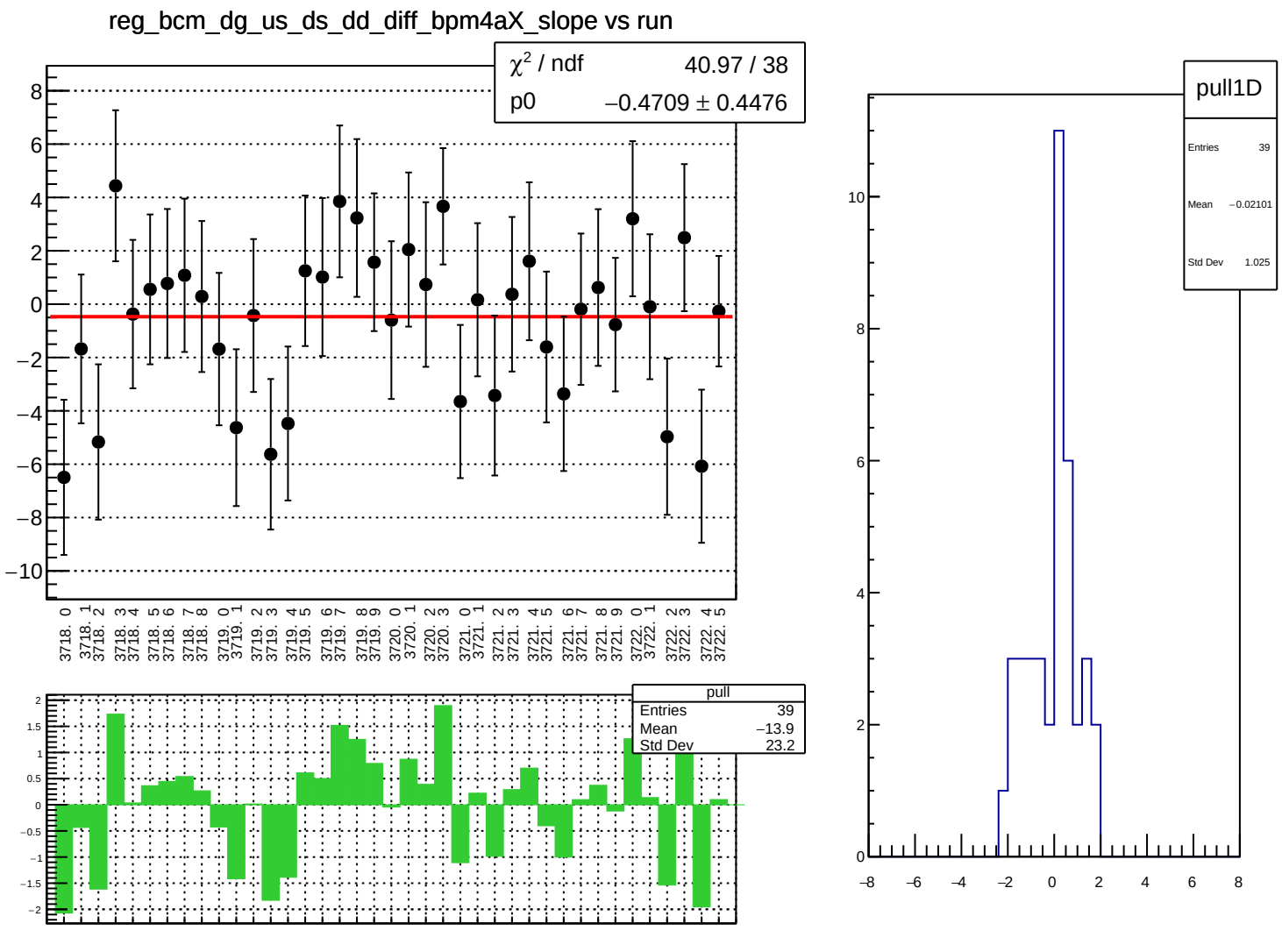

pull1D
Entries 39
Mean 0.02261
Std Dev 1.086

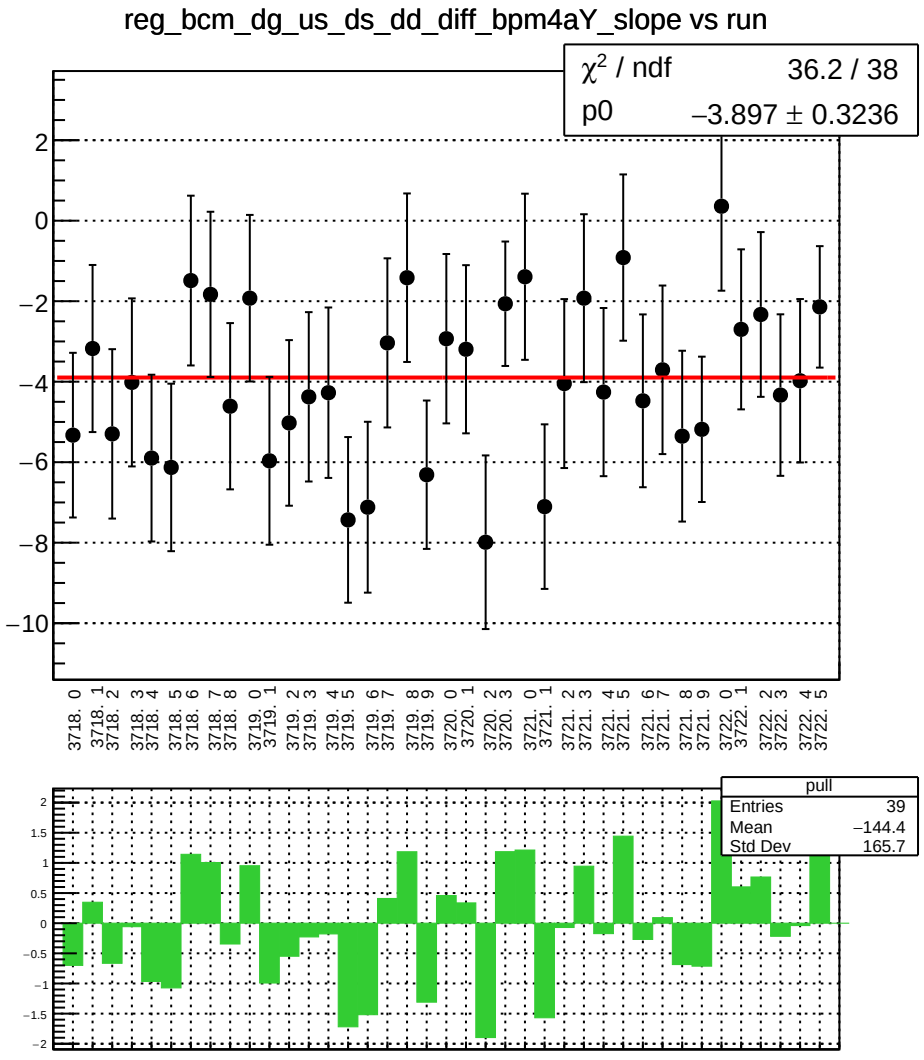

reg_bcm_cav4cQ_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 32.97 / 38
p0 5.702 ± 0.5011
pull
Entries 39
Mean −123.8
Std Dev 145.6

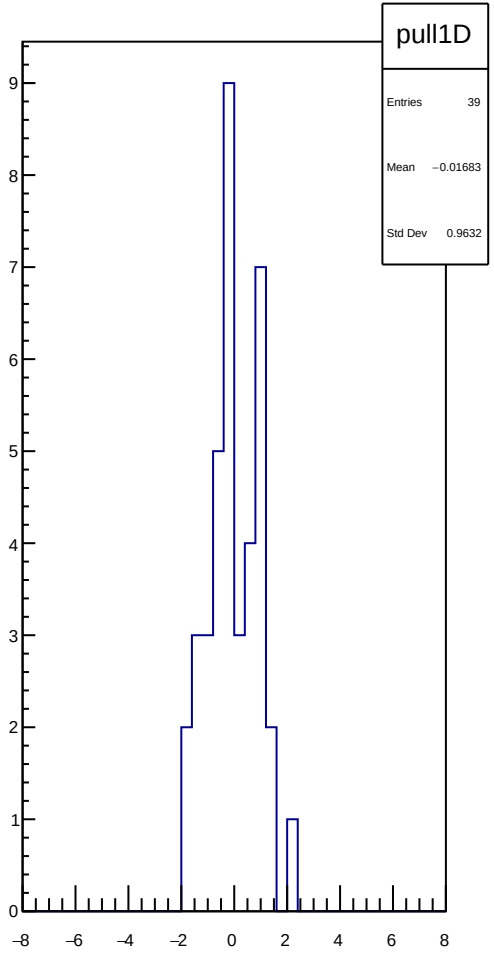

pull1D
Entries 39
Mean 0.01514
Std Dev 0.9193

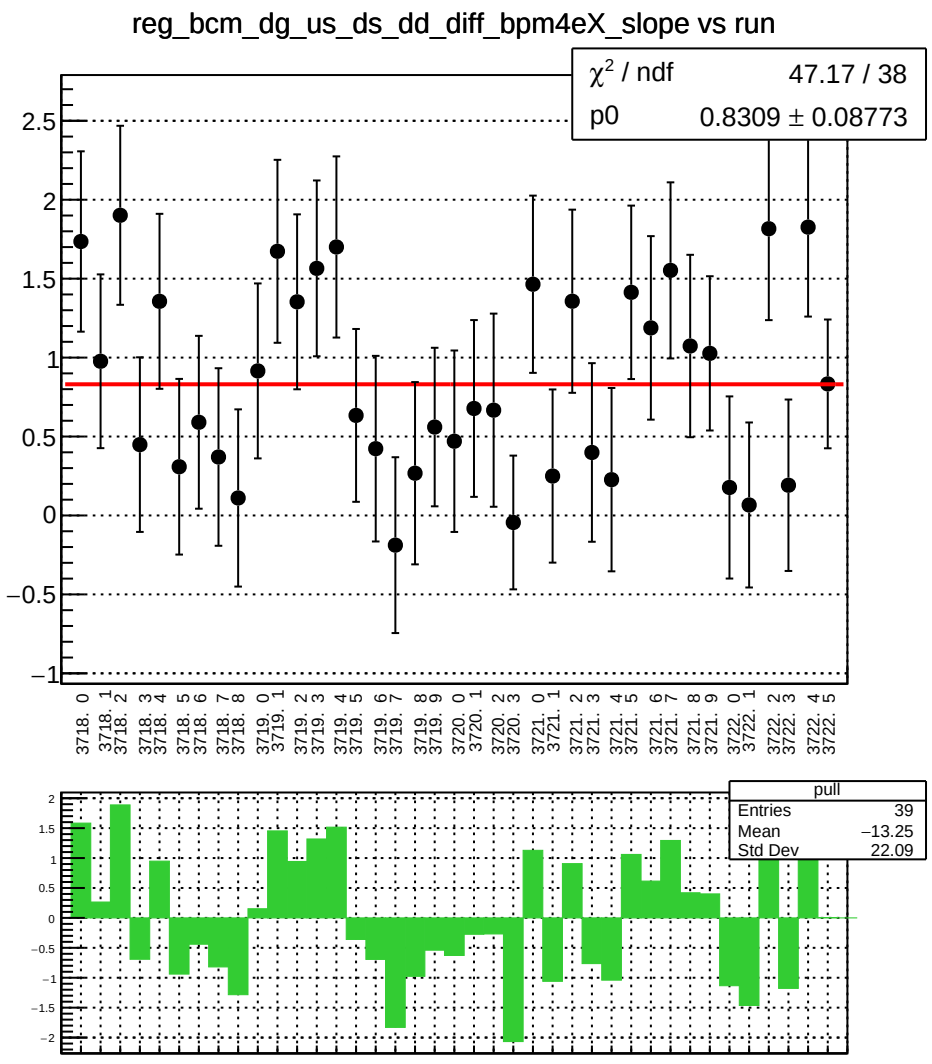

reg_bcm_cav4cQ_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 39.67 / 38
p0 1.325 ± 0.08224
pull
Entries 39
Mean 3.531
Std Dev 22.24

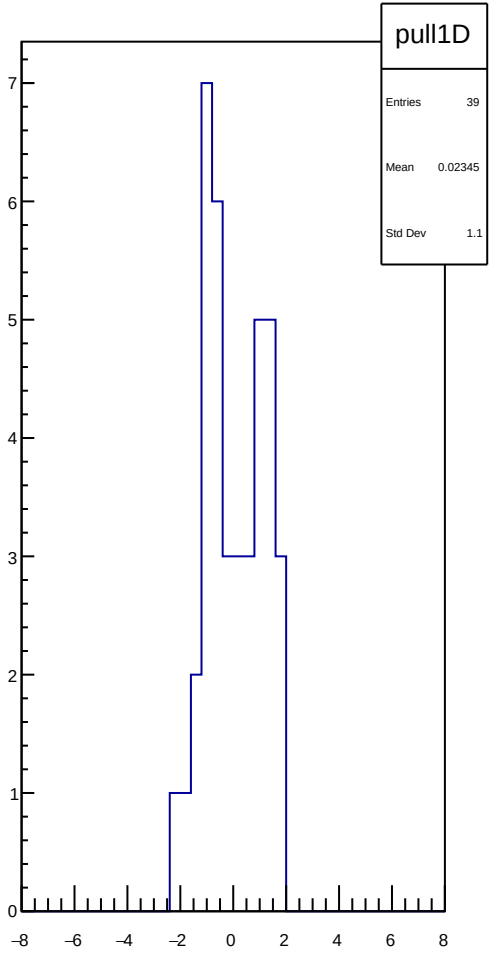

pull1D
Entries 39
Mean −0.04132
Std Dev 1.008

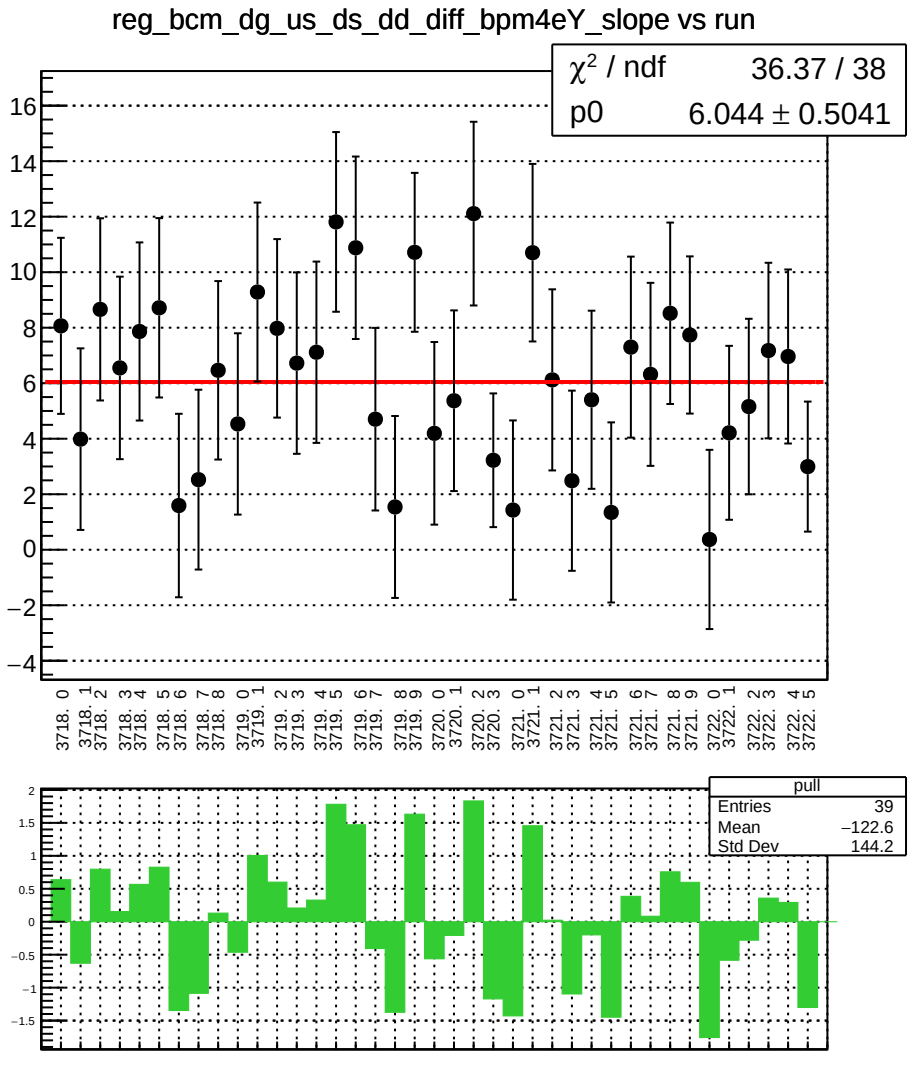

reg_bcm_dg_us_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 40.97 / 38
p0 −0.4709 ± 0.4476
pull
Entries 39
Mean −13.9
Std Dev 23.2
pull1D
Entries 39
Mean −0.02101
Std Dev 1.025

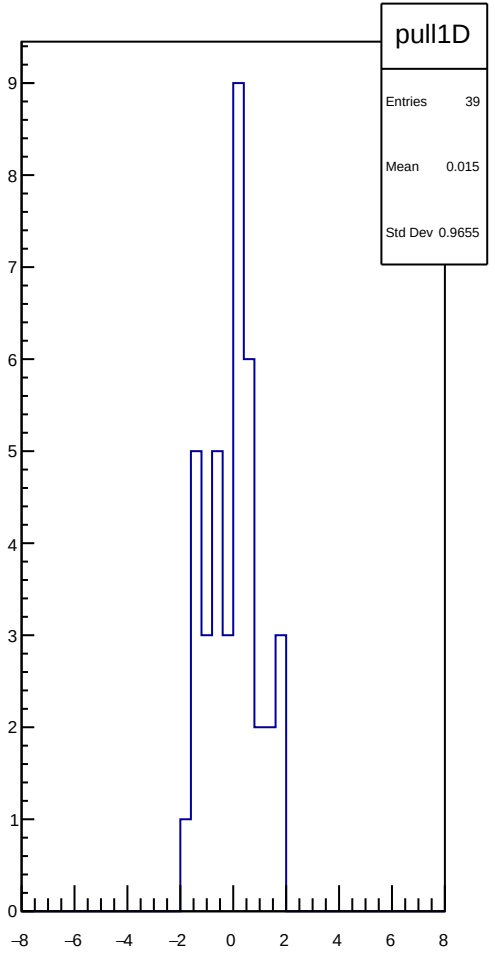

reg_bcm_dg_us_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 36.2 / 38
p0 −3.897 ± 0.3236
pull
Entries 39
Mean −144.4
Std Dev 165.7

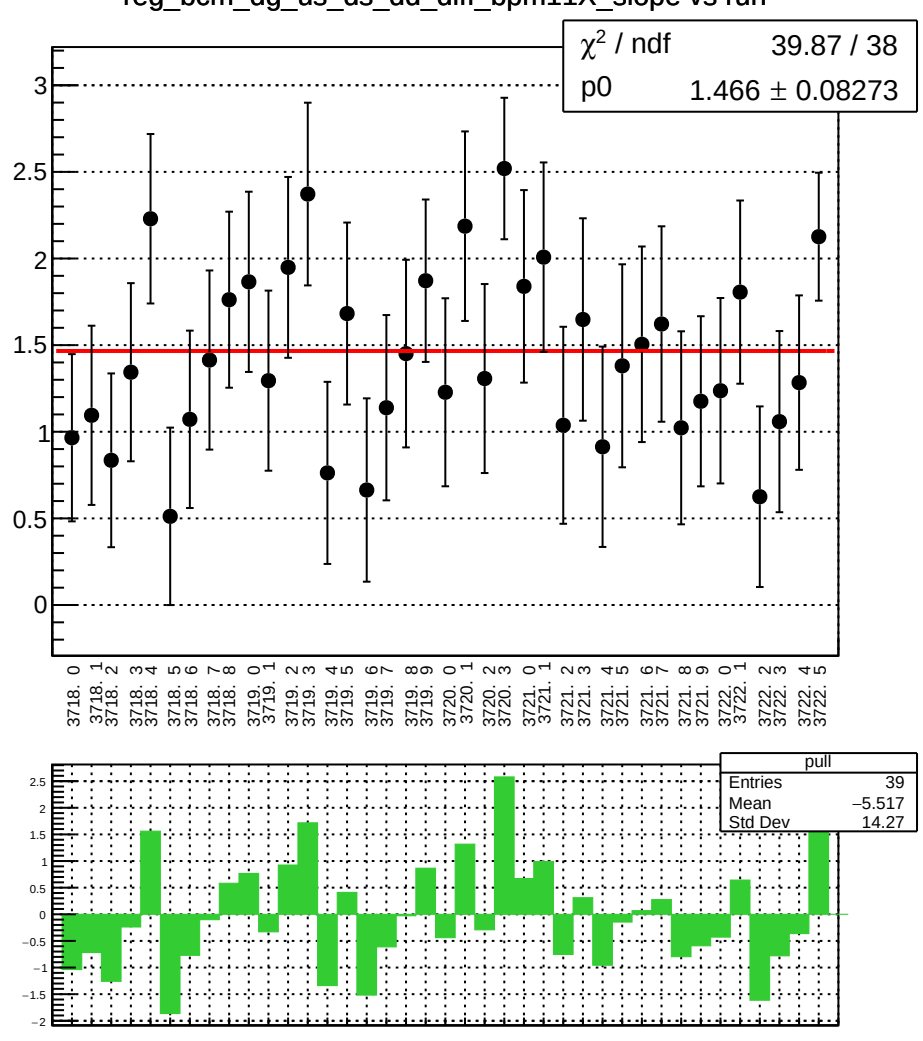

pull1D
Entries 39
Mean −0.01683
Std Dev 0.9632

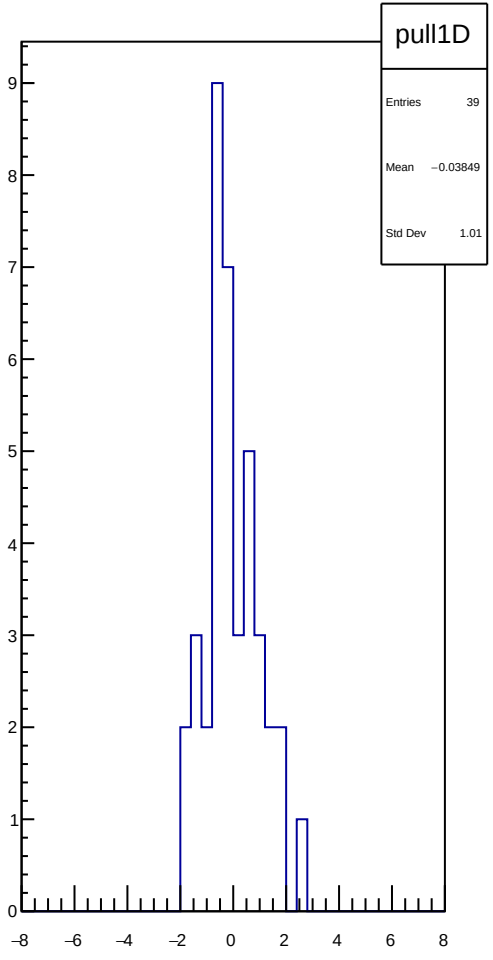

reg_bcm_dg_us_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 47.17 / 38
p0 0.8309 ± 0.08773
pull
Entries 39
Mean −13.25
Std Dev 22.09

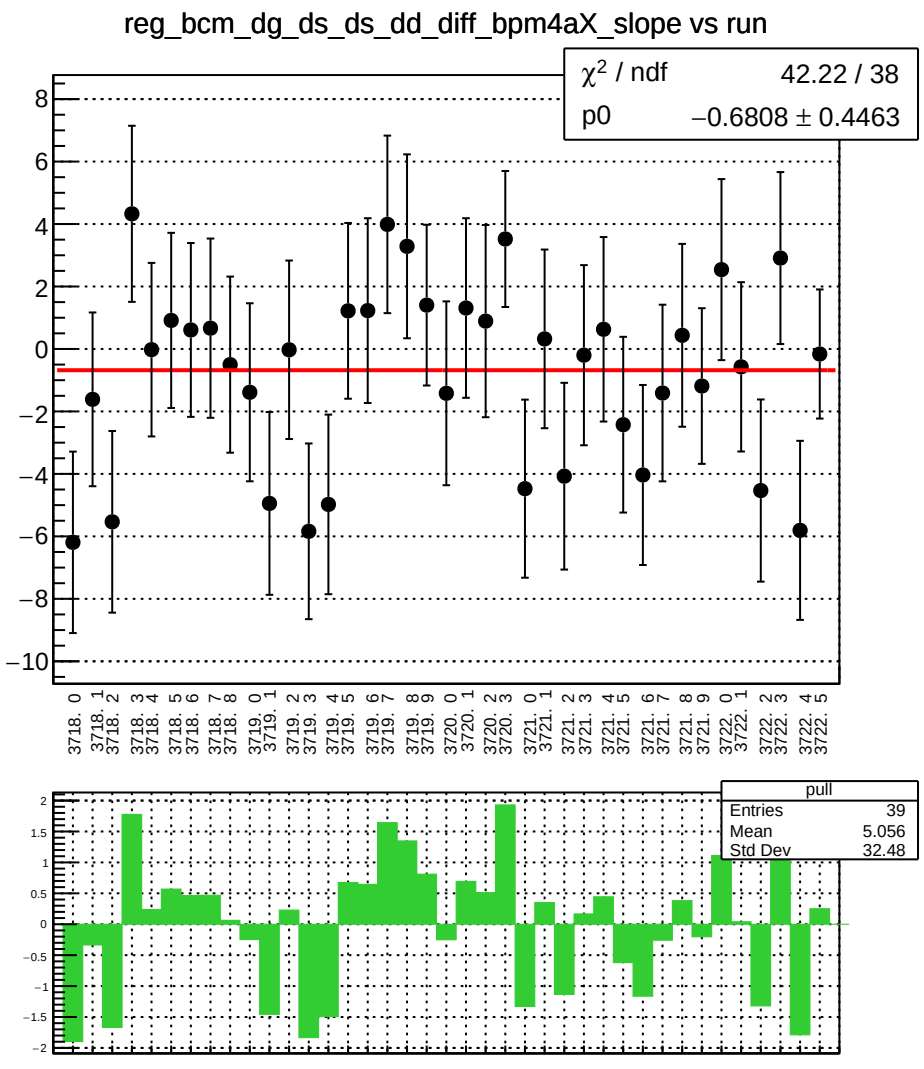

pull1D
Entries 39
Mean 0.02345
Std Dev 1.1

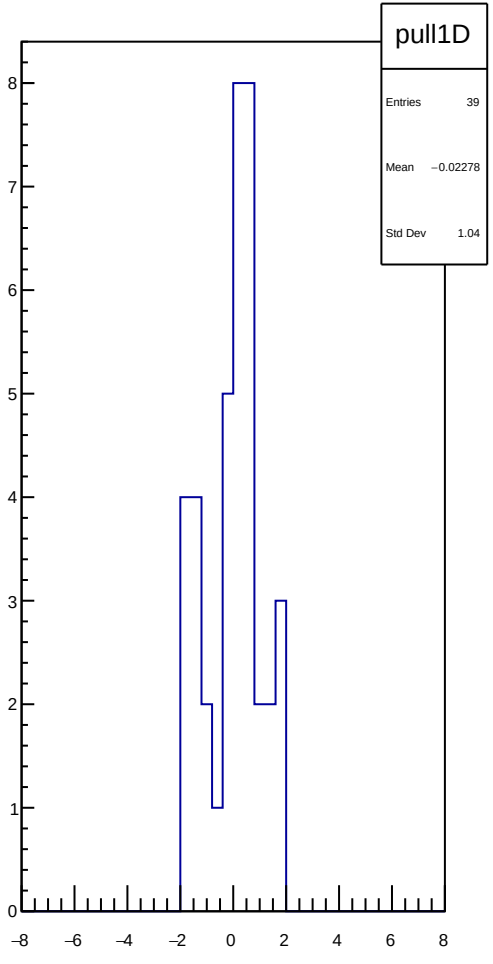

reg_bcm_dg_us_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 36.37 / 38
p0 6.044 ± 0.5041
pull
Entries 39
Mean −122.6
Std Dev 144.2

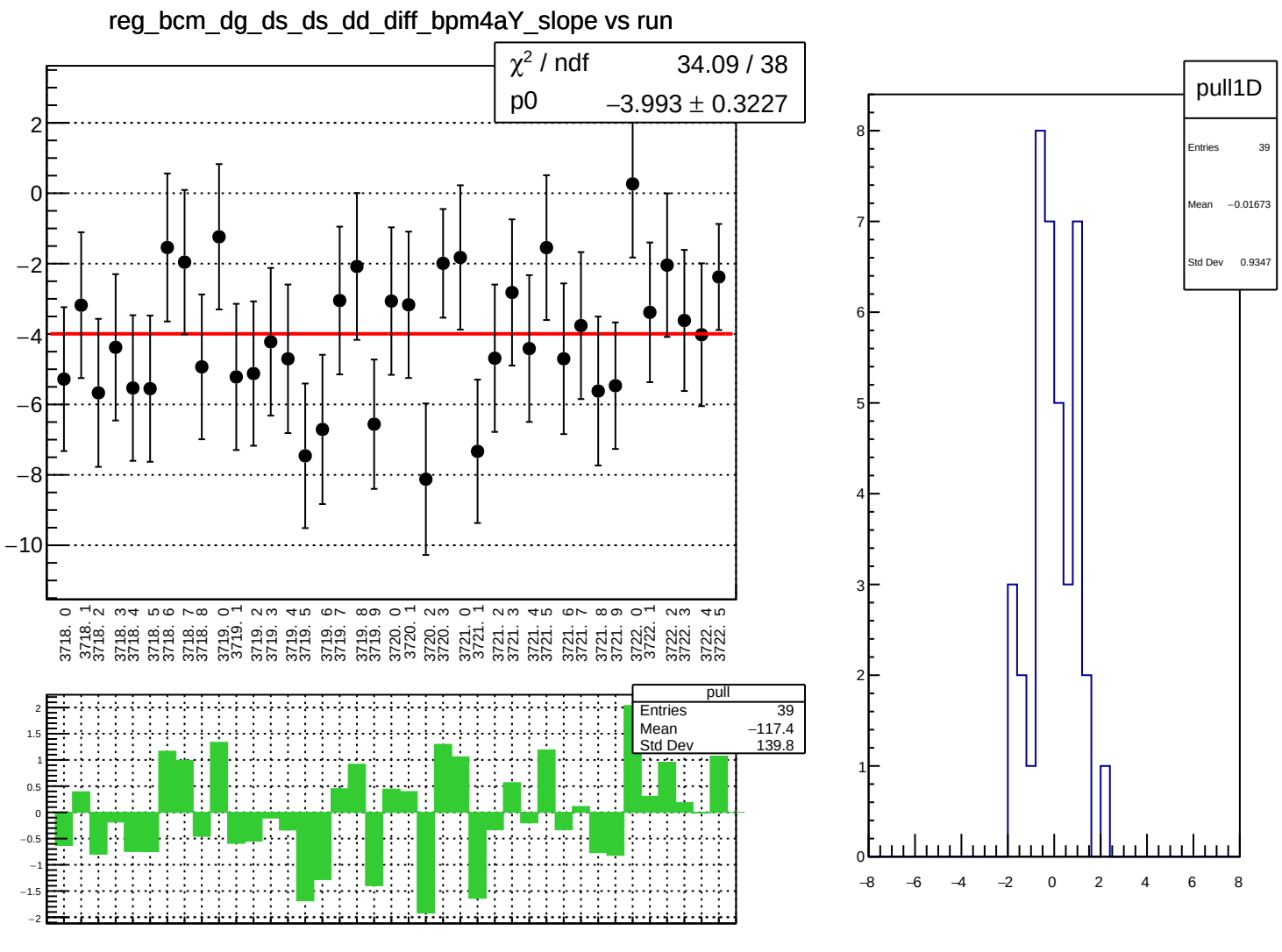

pull1D
Entries 39
Mean 0.015
Std Dev 0.9655

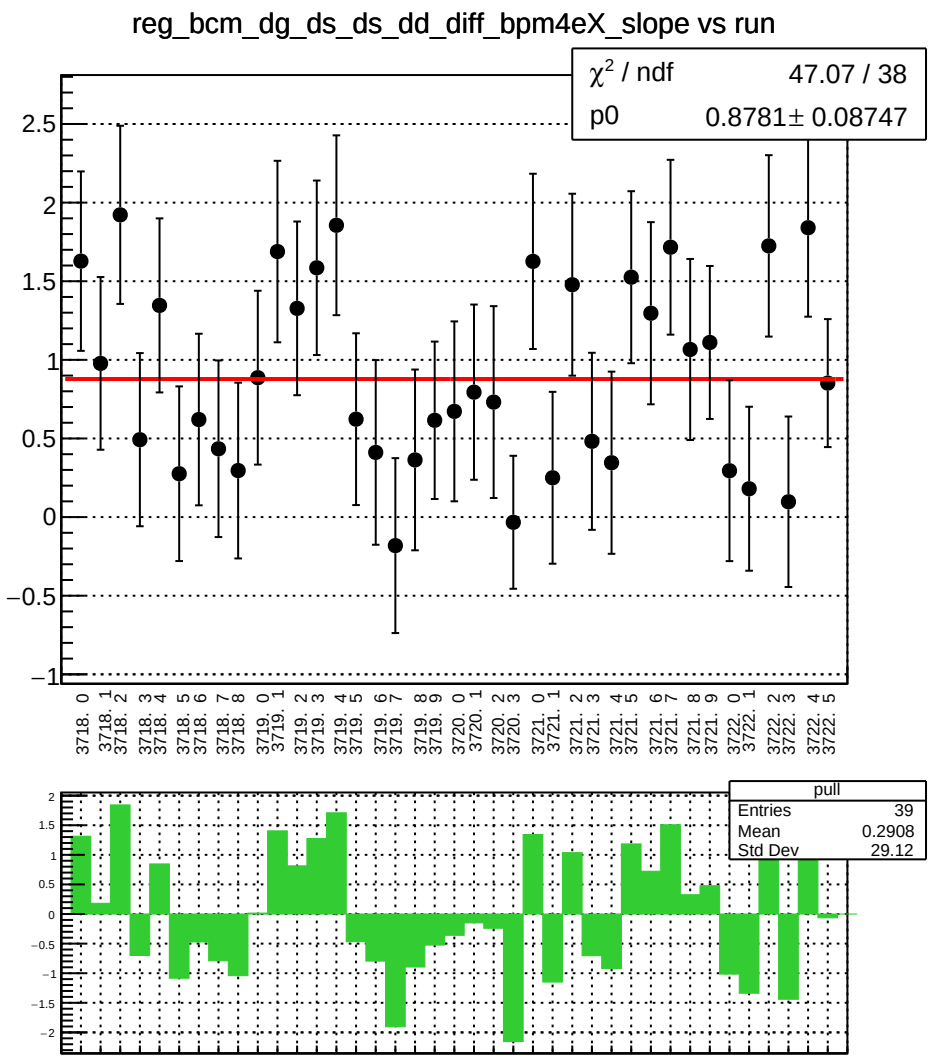

reg_bcm_dg_us_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 39.87 / 38
p0 1.466 ± 0.08273
pull
Entries 39
Mean −5.517
Std Dev 14.27

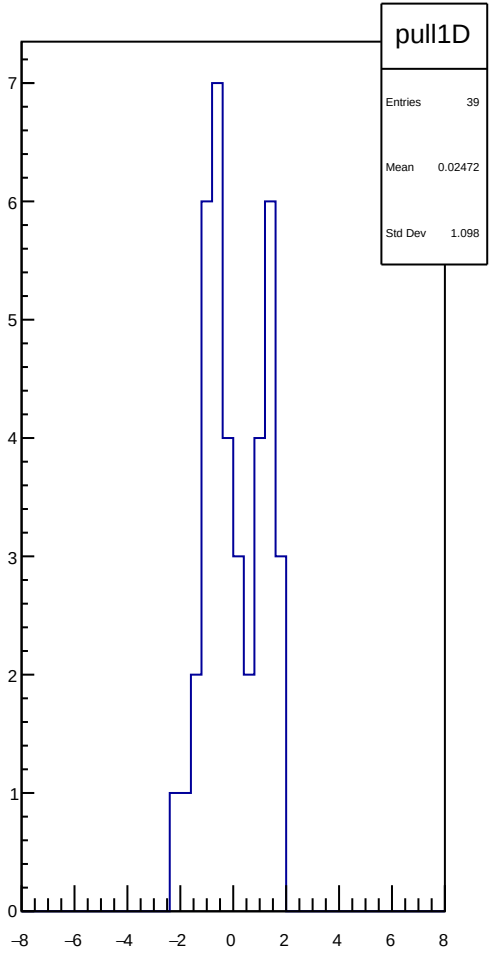

pull1D
Entries 39
Mean −0.03849
Std Dev 1.01

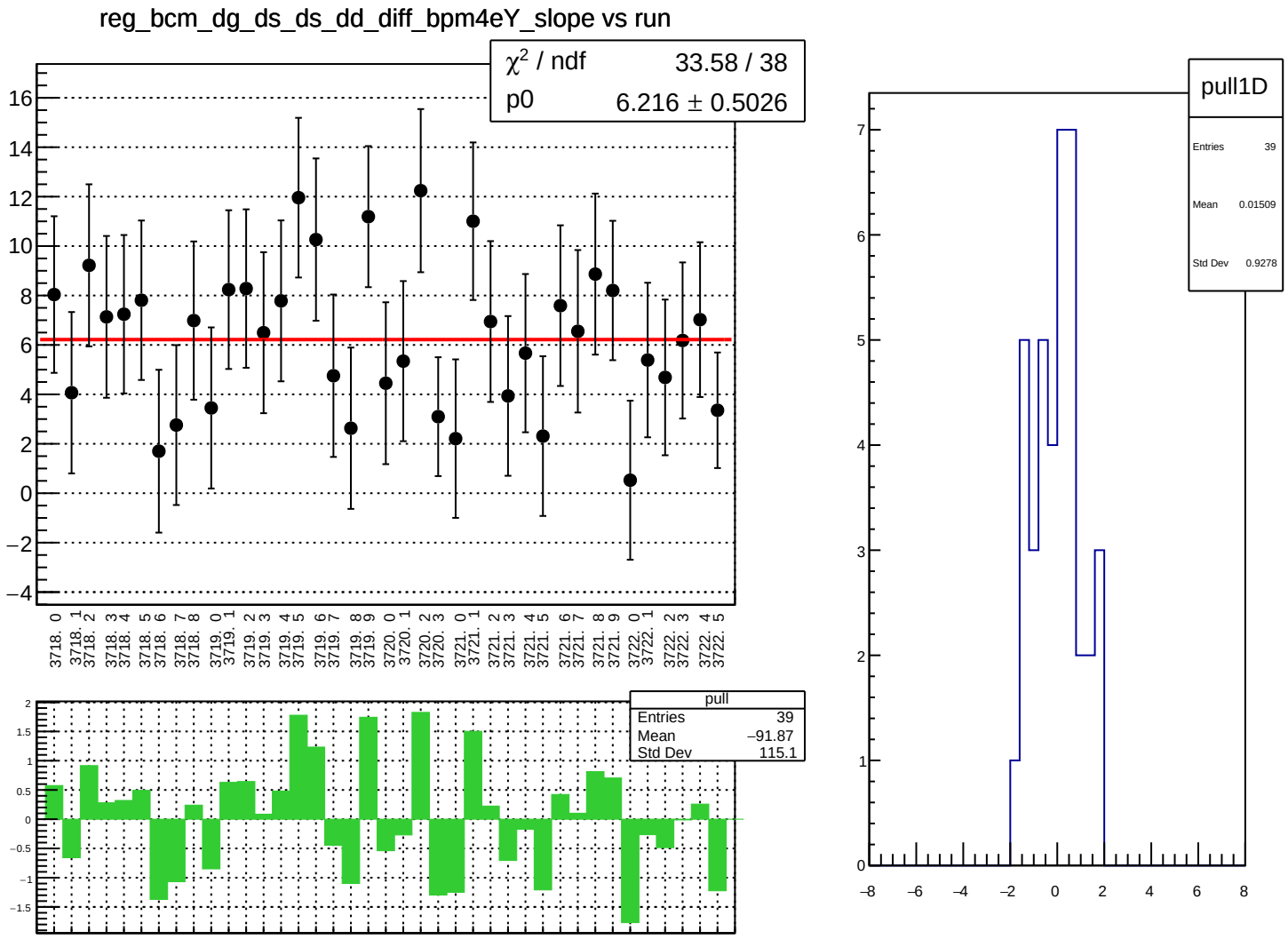

reg_bcm_dg_ds_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 42.22 / 38
p0 −0.6808 ± 0.4463
pull
Entries 39
Mean 5.056
Std Dev 32.48

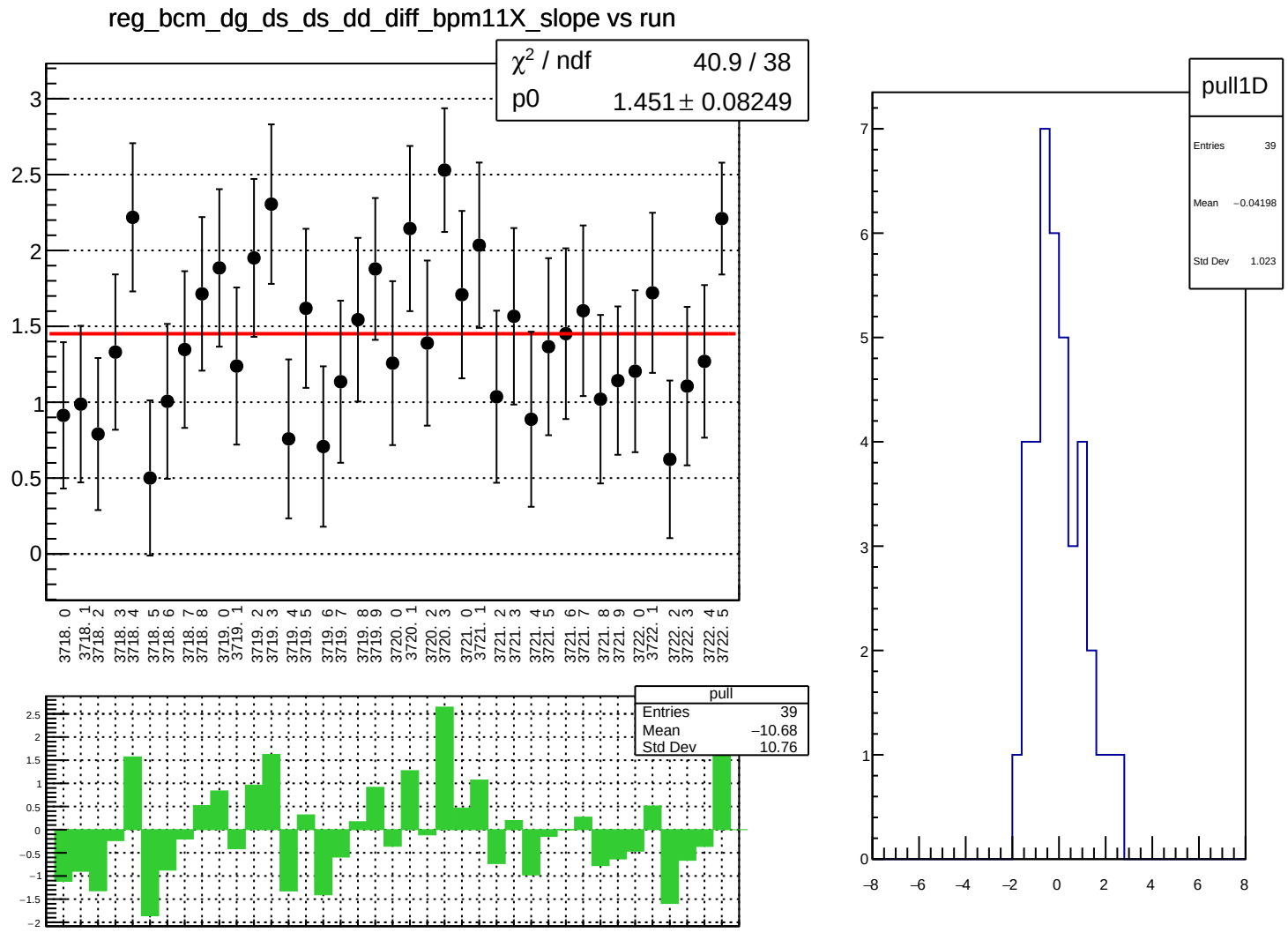

pull1D
Entries 39
Mean −0.02278
Std Dev 1.04


reg_bcm_dg_ds_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 34.09 / 38
p0 −3.993 ± 0.3227
pull
Entries 39
Mean −117.4
Std Dev 139.8
pull1D
Entries 39
Mean −0.01673
Std Dev 0.9347


reg_bcm_dg_ds_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 47.07 / 38
p0 0.8781± 0.08747
pull
Entries 39
Mean 0.2908
Std Dev 29.12


pull1D
Entries 39
Mean 0.02472
Std Dev 1.098


reg_bcm_dg_ds_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 33.58 / 38
p0 6.216 ± 0.5026
pull
Entries 39
Mean −91.87
Std Dev 115.1
pull1D
Entries 39
Mean 0.01509
Std Dev 0.9278


reg_bcm_dg_ds_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 40.9 / 38
p0 1.451 ± 0.08249
pull
Entries 39
Mean −10.68
Std Dev 10.76
pull1D
Entries 39
Mean −0.04198
Std Dev 1.023