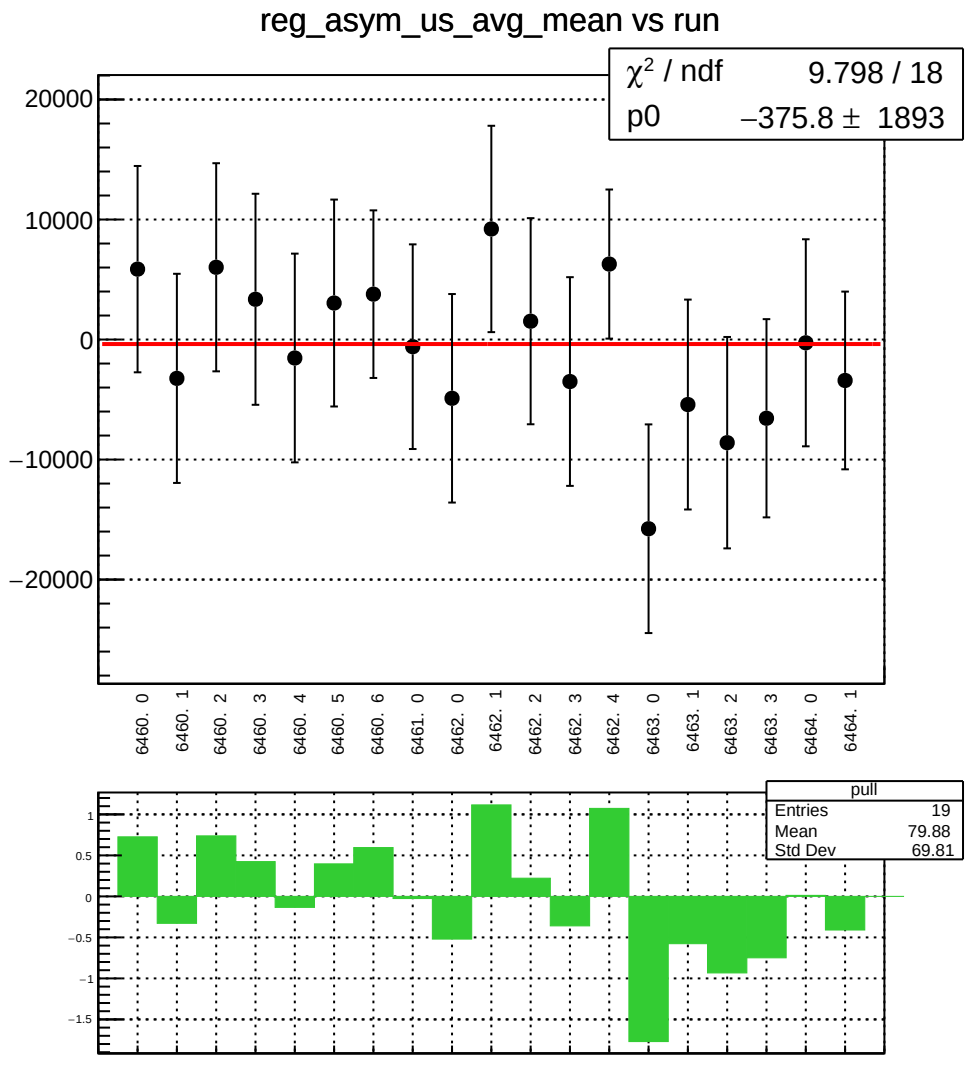
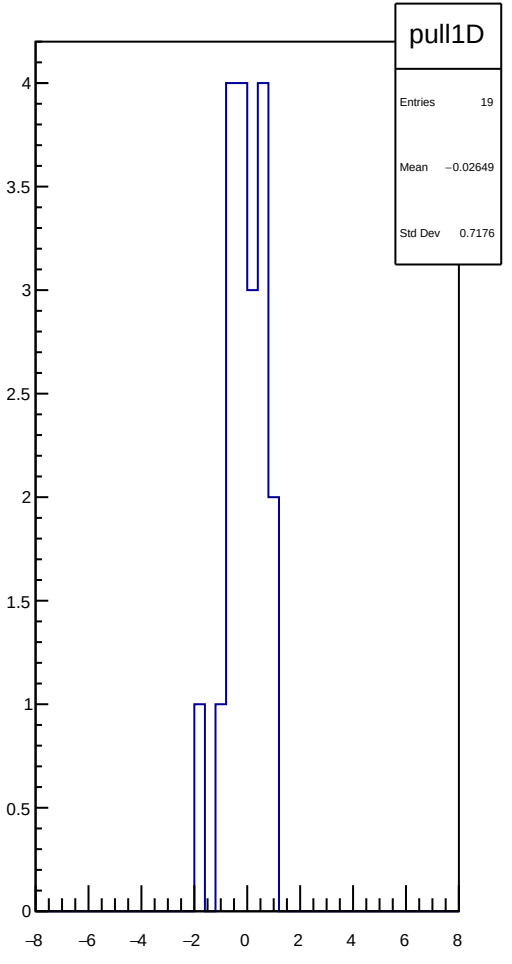
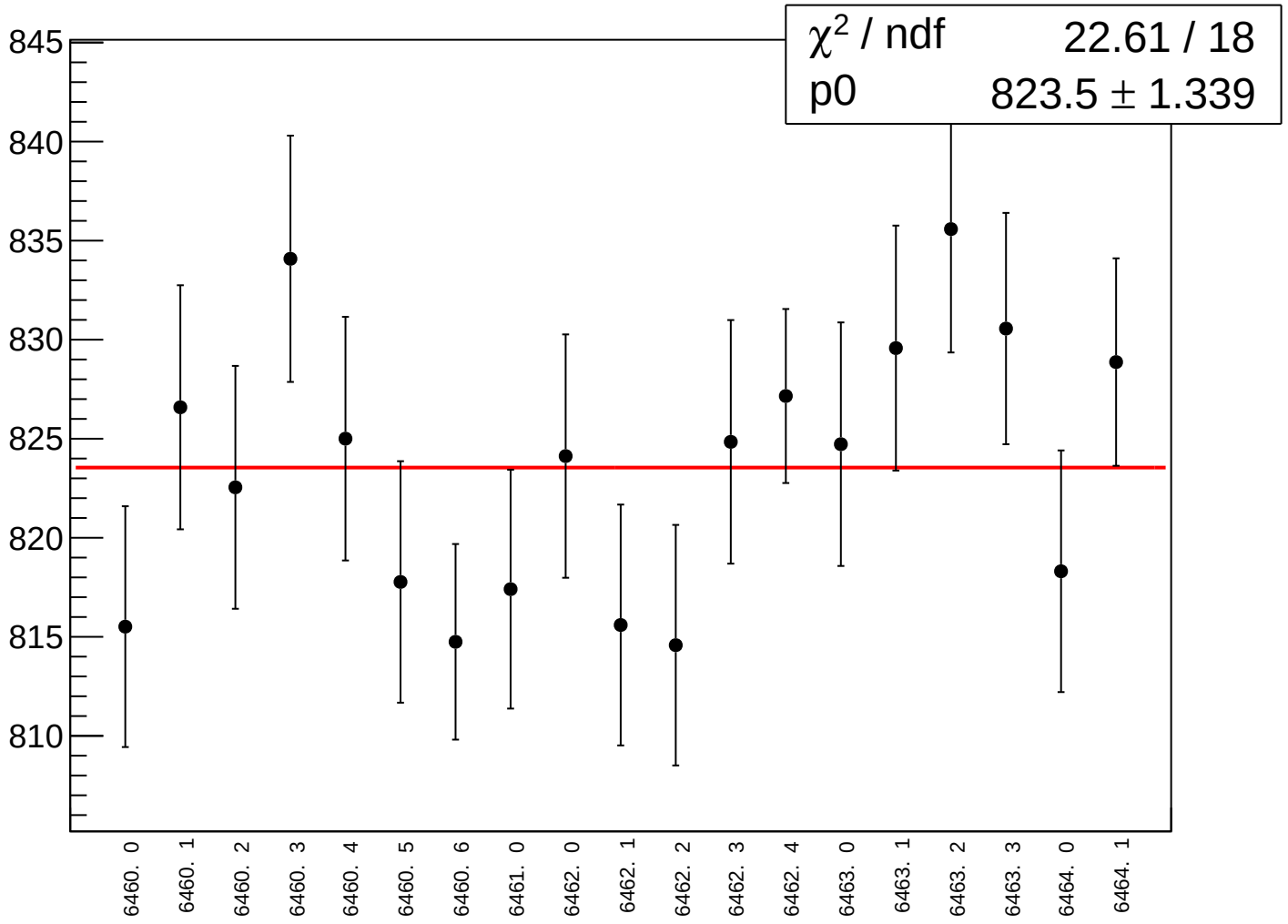
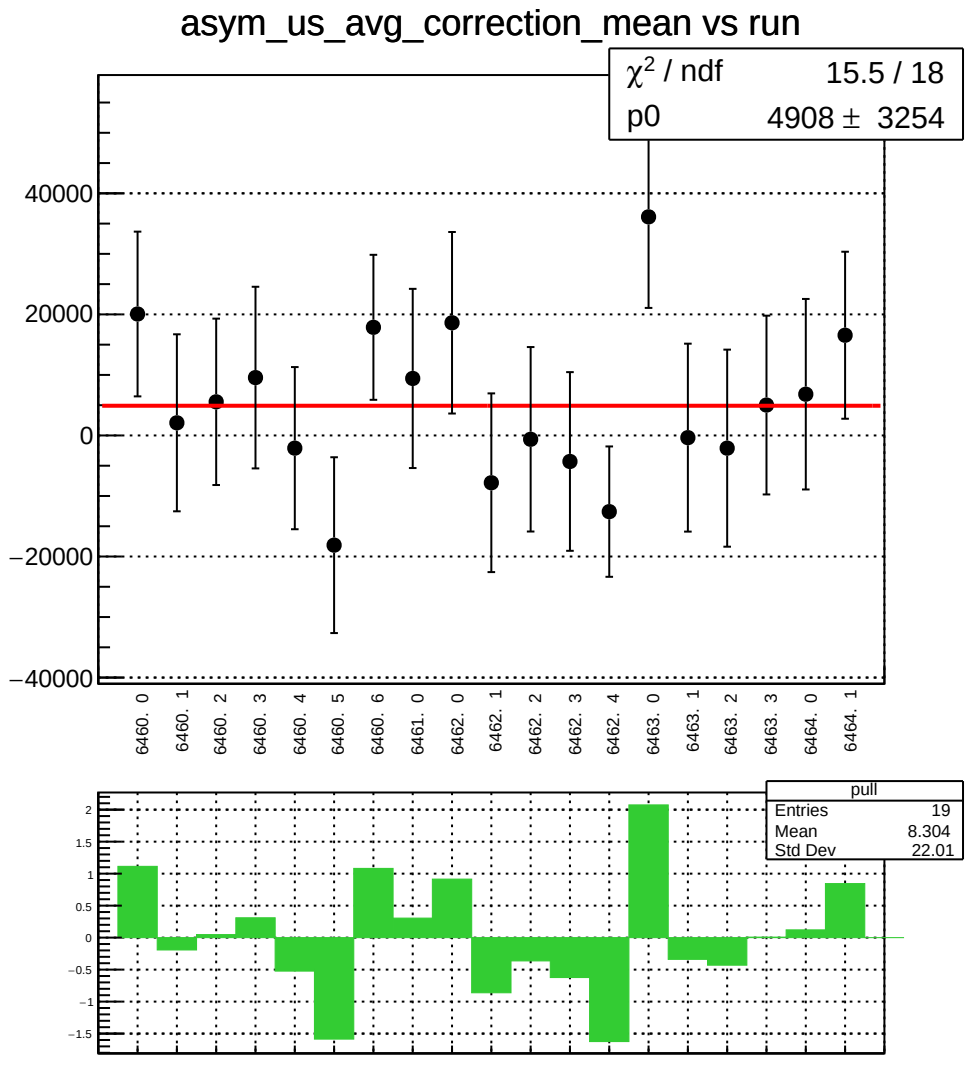
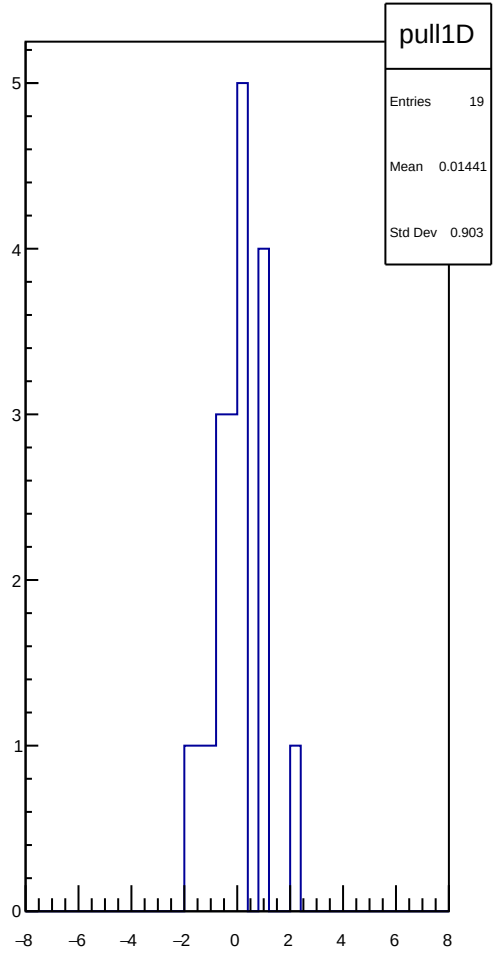
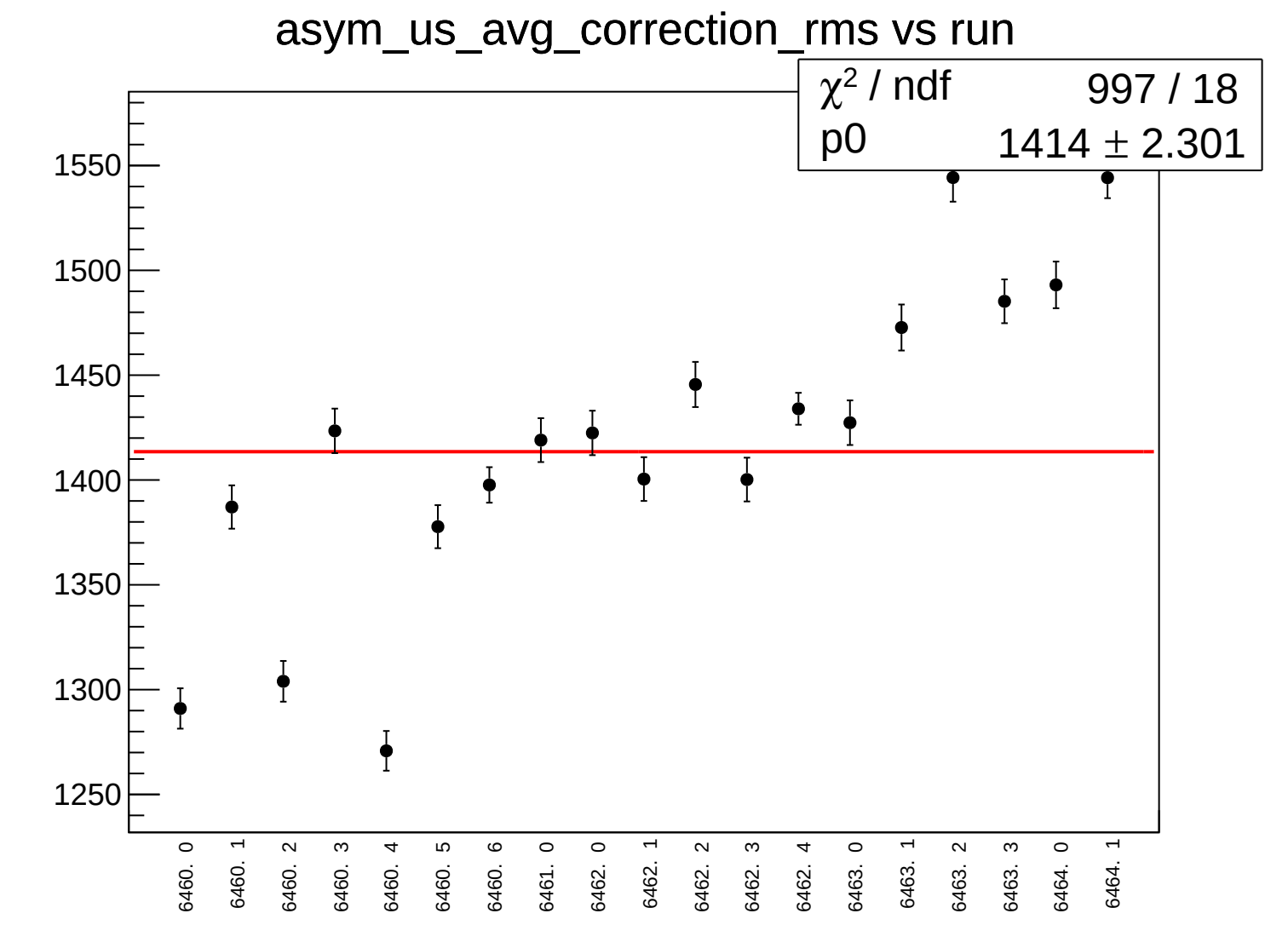

reg_asym_us_avg_mean vs run
χ² / ndf 9.798 / 18
p0 −375.8 ± 1893
20000
10000
0
−10000
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 79.88
Std Dev 69.81
1
0.5
0
−0.5
−1
−1.5

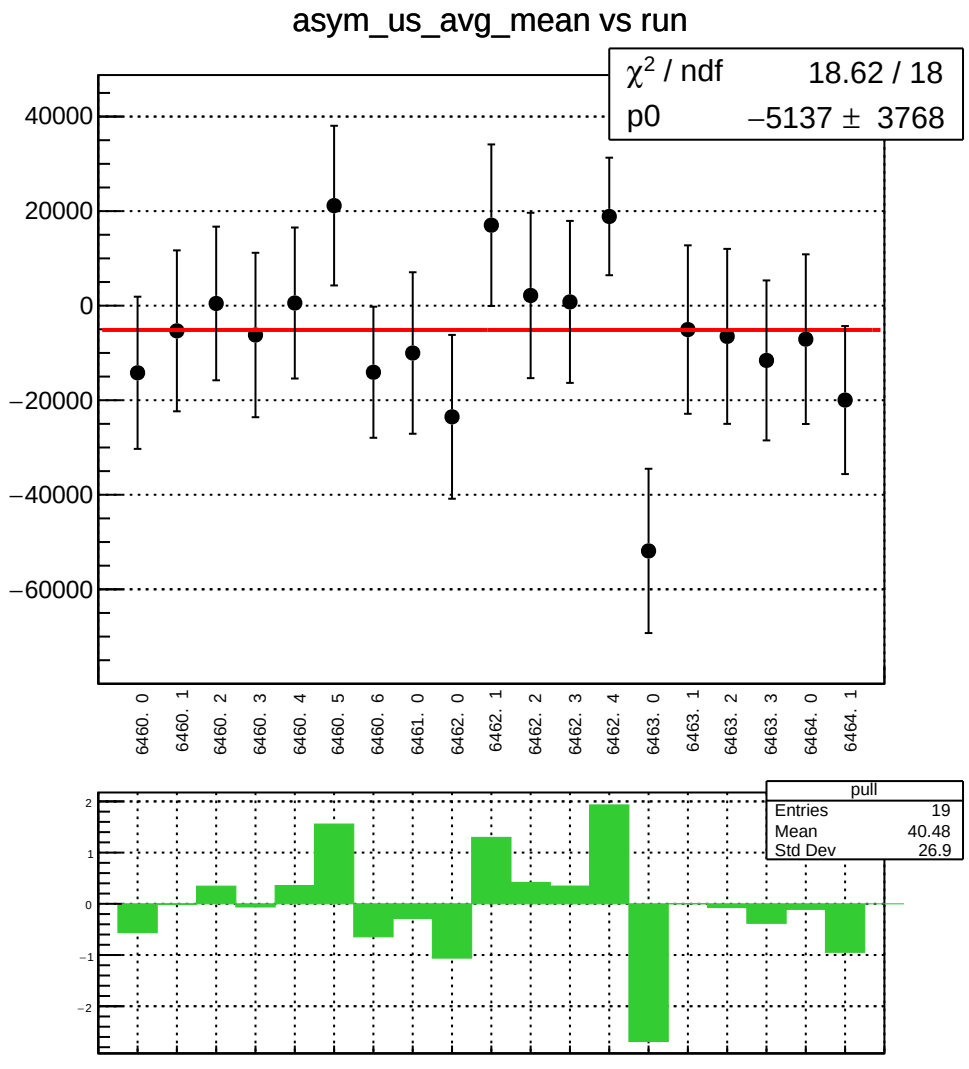

pull1D
Entries 19
Mean −0.02649
Std Dev 0.7176
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

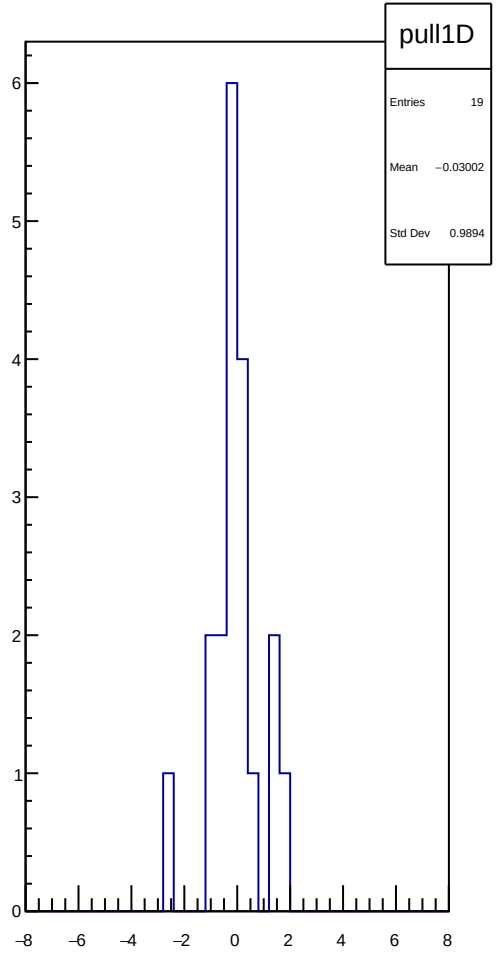

reg_asym_us_avg_rms vs run
χ² / ndf 22.61 / 18
p0 823.5 ± 1.339
845
840
835
830
825
820
815
810
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

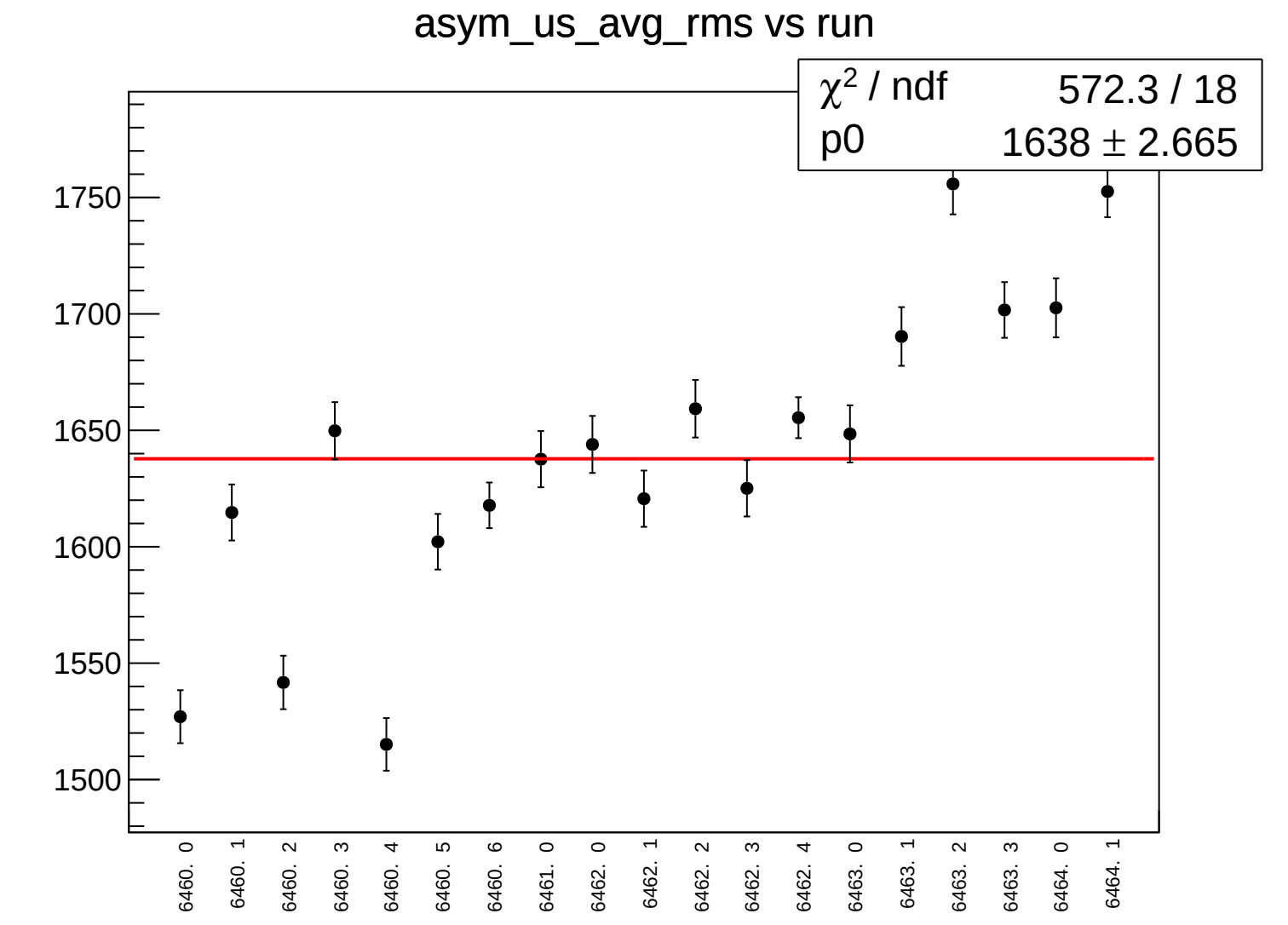

asym_us_avg_correction_mean vs run
χ² / ndf 15.5 / 18
p0 4908 ± 3254
40000
20000
0
−20000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 8.304
Std Dev 22.01
2
1.5
1
0.5
0
−0.5
−1
−1.5

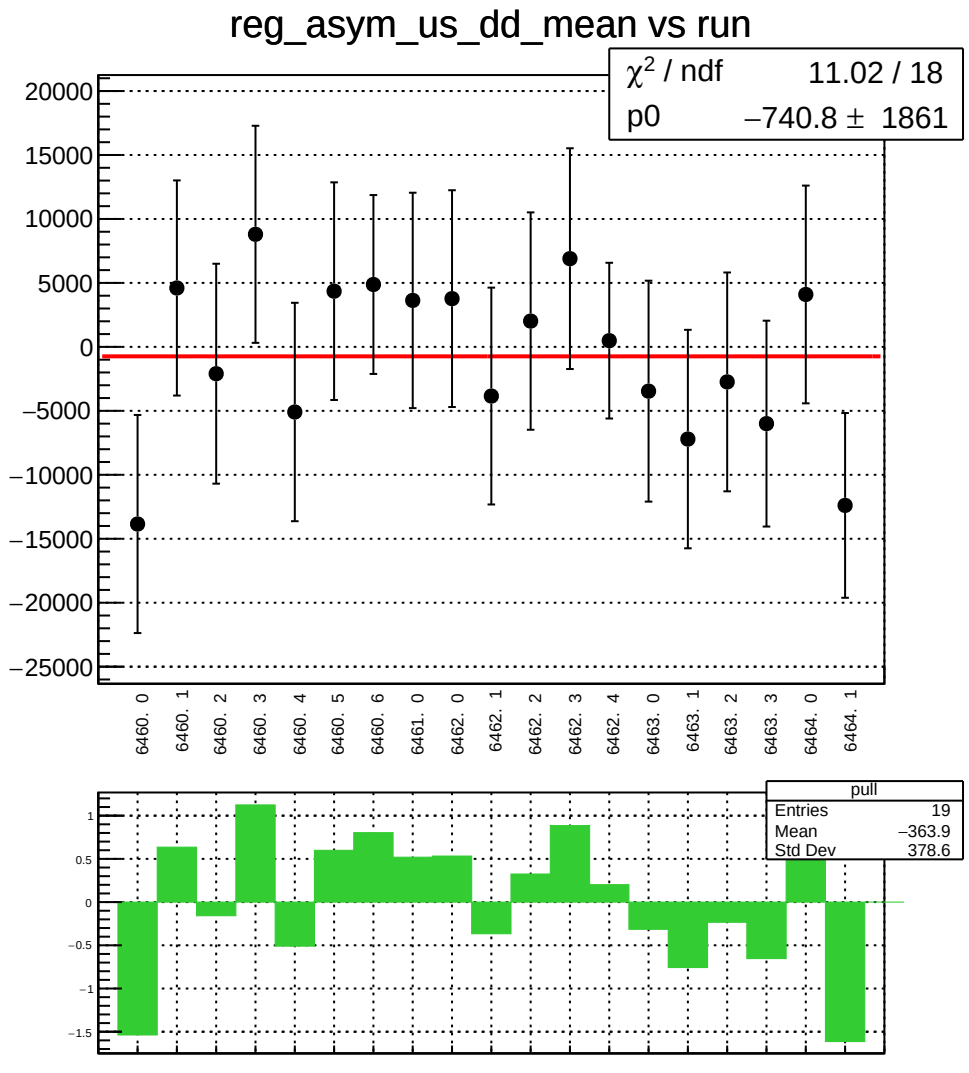

pull1D
Entries 19
Mean 0.01441
Std Dev 0.903
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

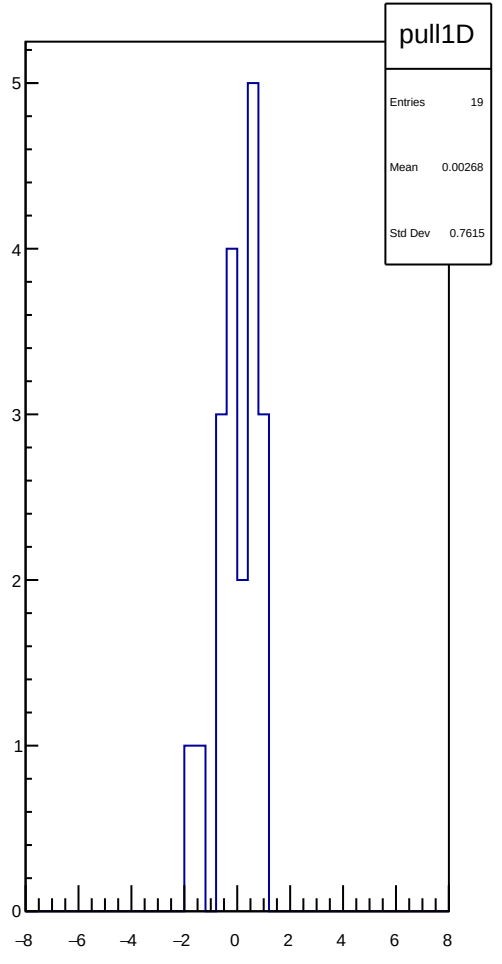

asym_us_avg_correction_rms vs run
χ² / ndf 997 / 18
p0 1414 ± 2.301
1550
1500
1450
1400
1350
1300
1250
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

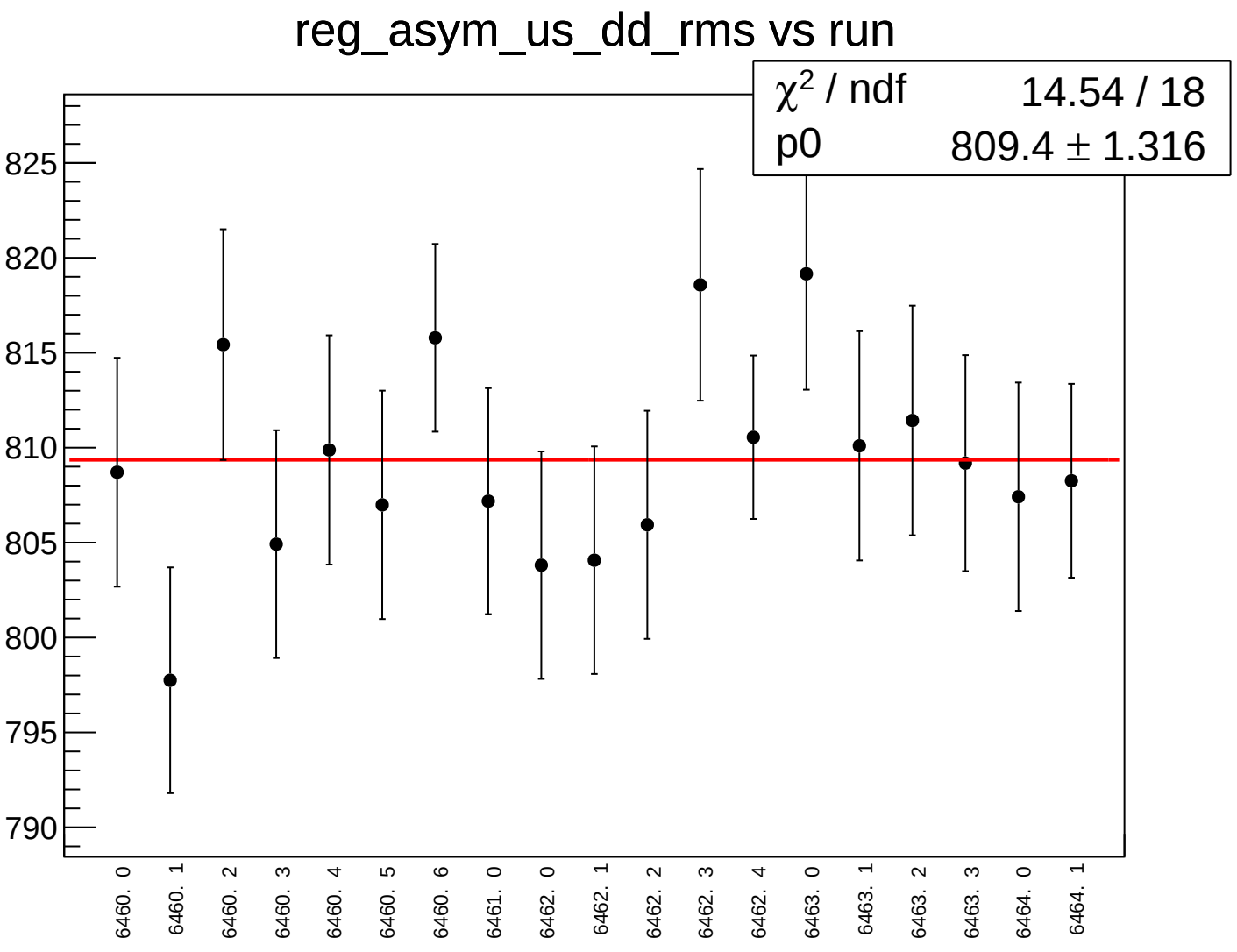

asym_us_avg_mean vs run
χ² / ndf 18.62 / 18
p0 −5137 ± 3768
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 40.48
Std Dev 26.9
2
1
0
−1
−2

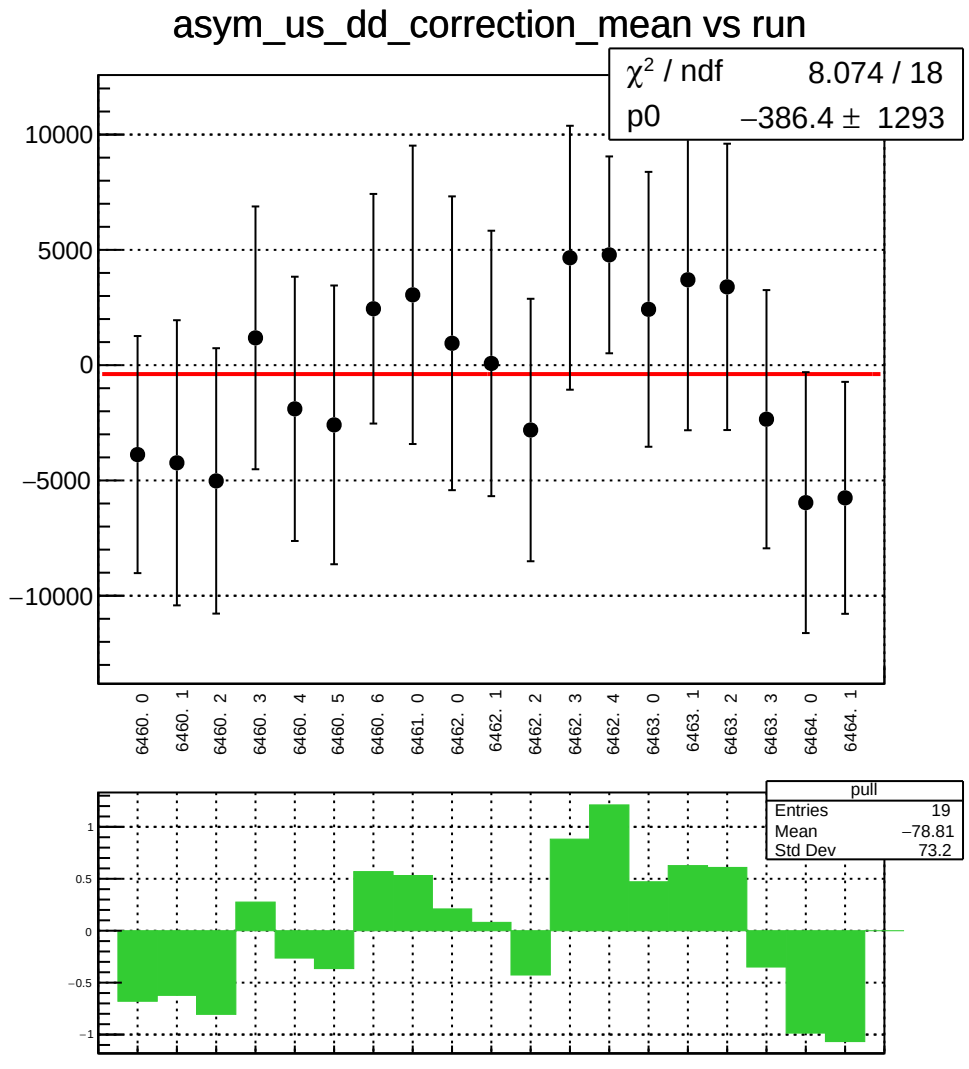

pull1D
Entries 19
Mean −0.03002
Std Dev 0.9894
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

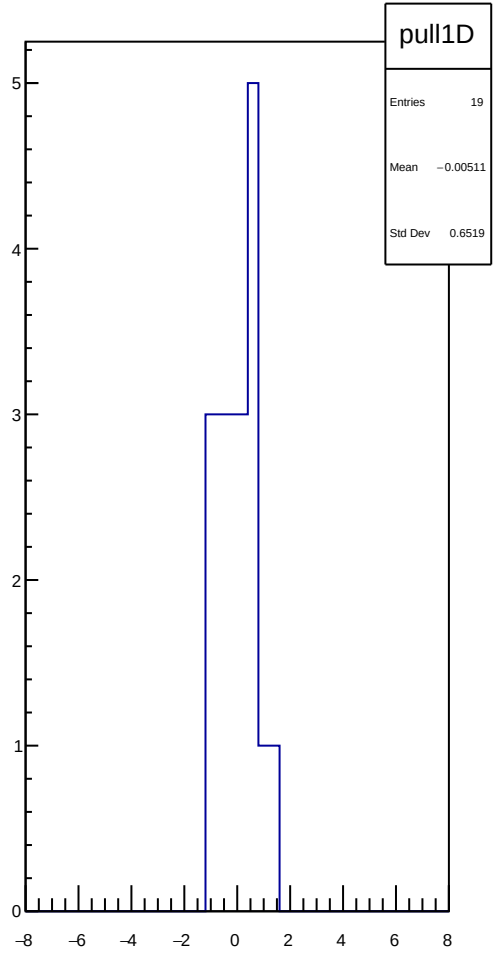

asym_us_avg_rms vs run
χ² / ndf 572.3 / 18
p0 1638 ± 2.665
1750
1700
1650
1600
1550
1500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

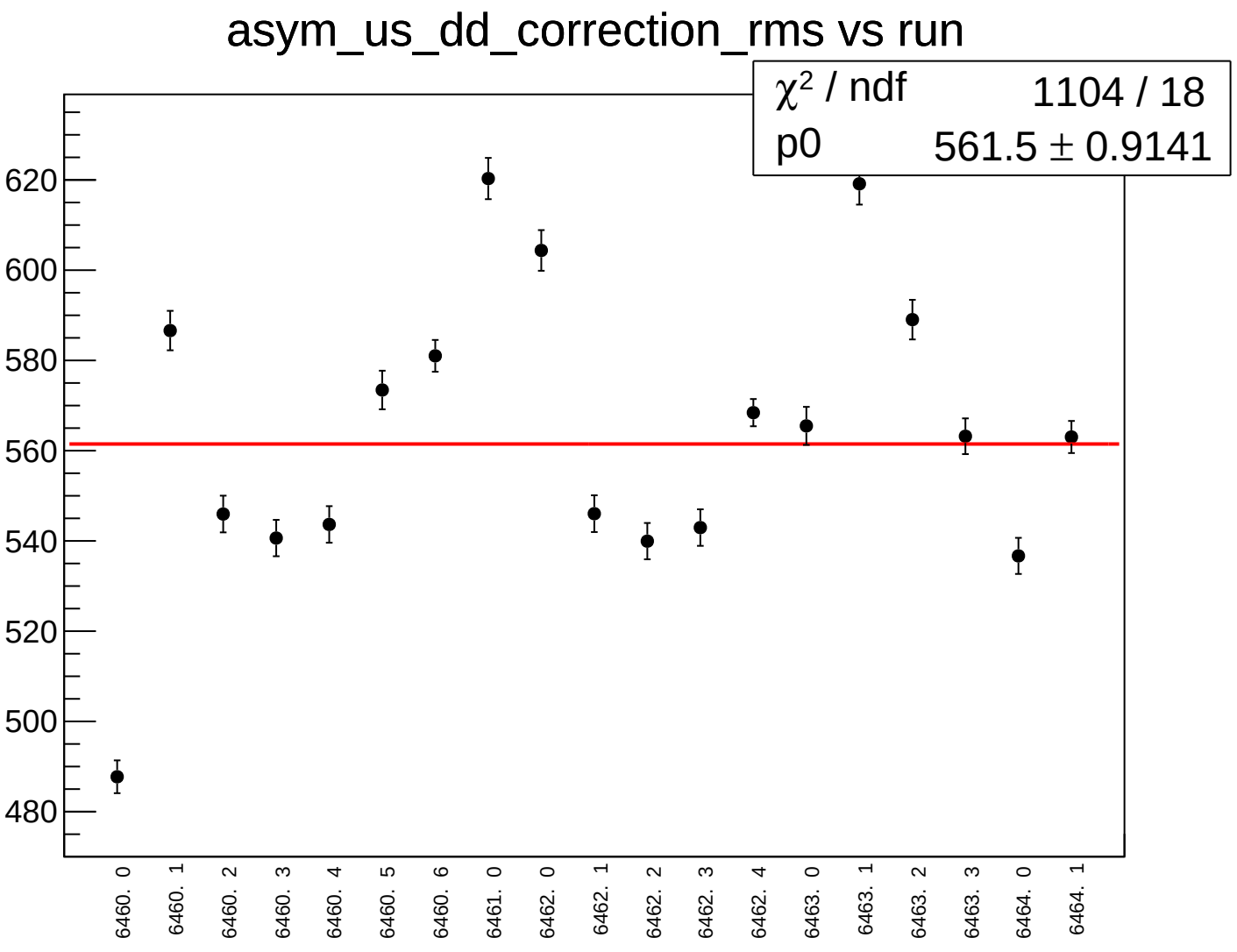

reg_asym_us_dd_mean vs run
χ² / ndf 11.02 / 18
p0 −740.8 ± 1861
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −363.9
Std Dev 378.6
1
0.5
0
−0.5
−1
−1.5

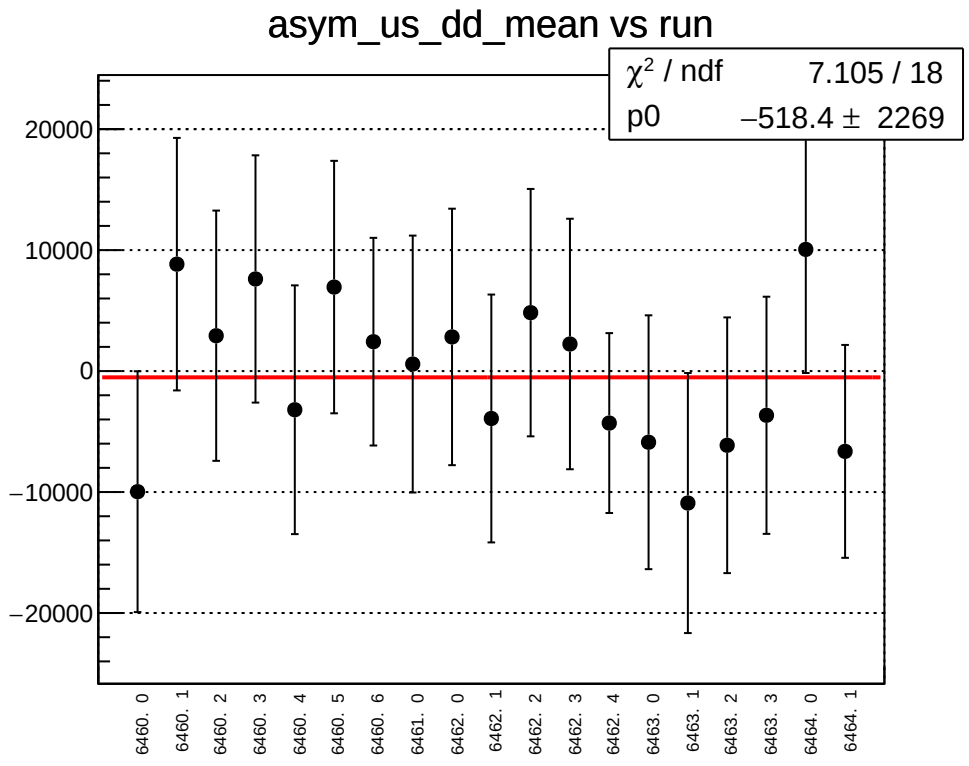

pull1D
Entries 19
Mean 0.00268
Std Dev 0.7615
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

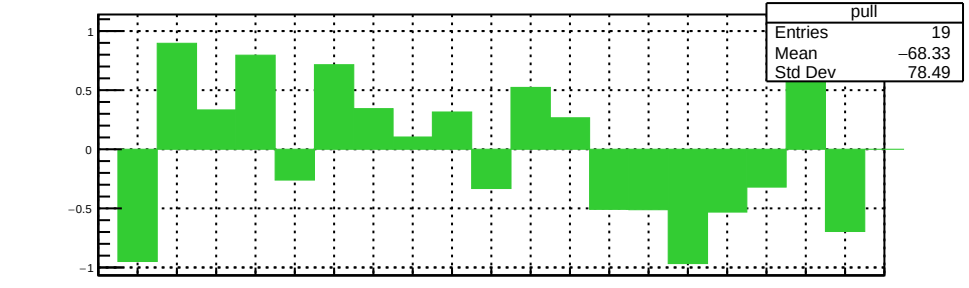

reg_asym_us_dd_rms vs run
χ² / ndf 14.54 / 18
p0 809.4 ± 1.316
825
820
815
810
805
800
795
790
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

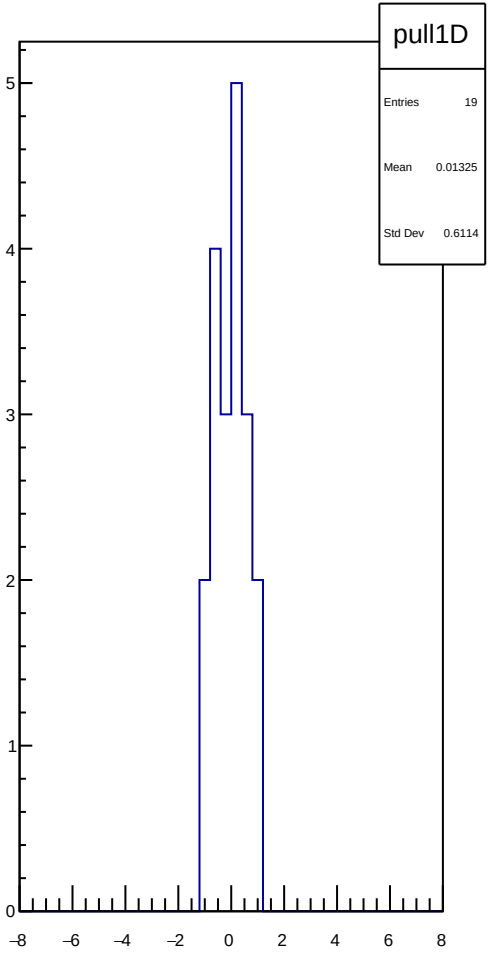

asym_us_dd_correction_mean vs run
χ² / ndf 8.074 / 18
p0 −386.4 ± 1293
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −78.81
Std Dev 73.2
1
0.5
0
−0.5
−1

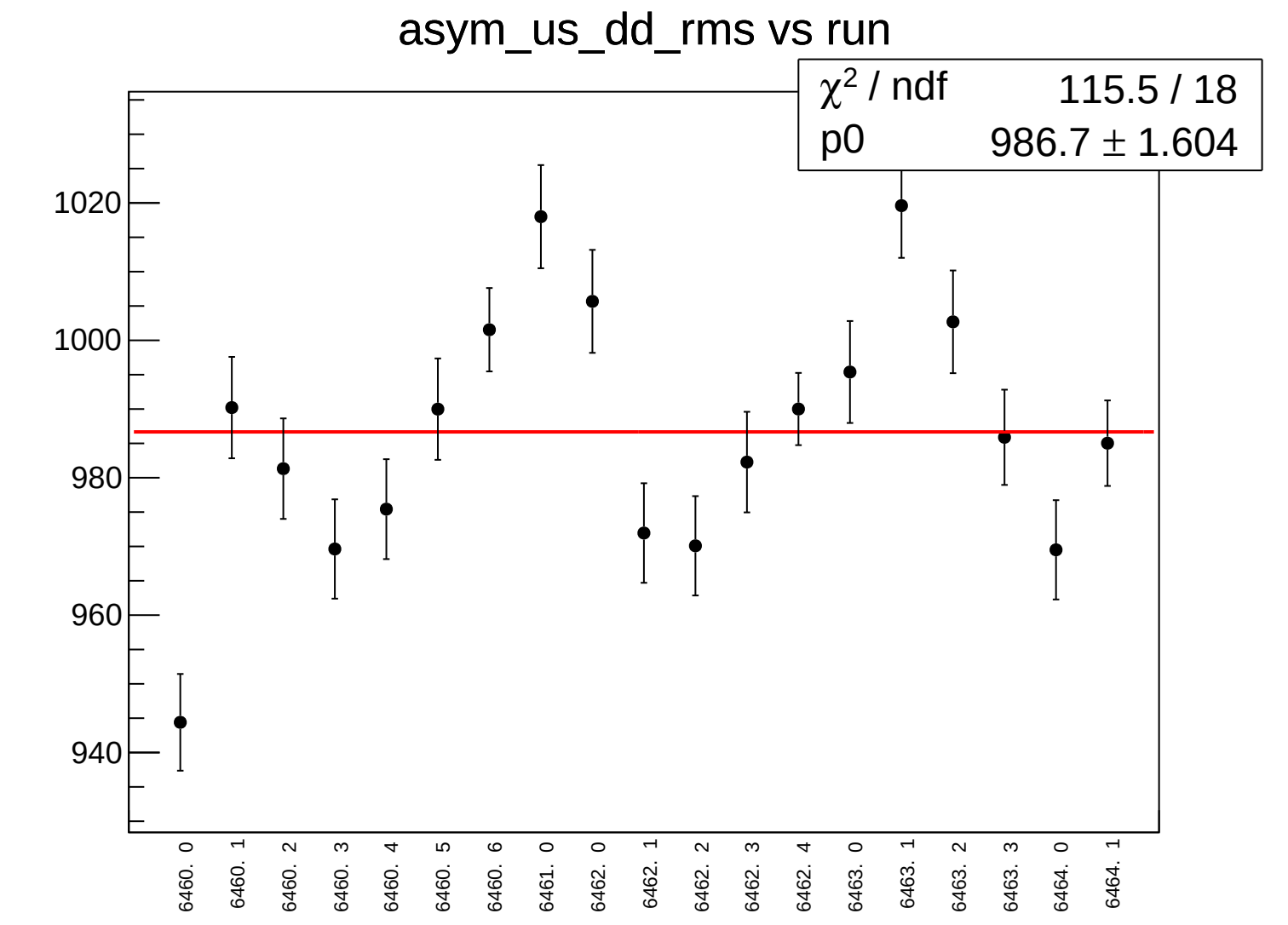

pull1D
Entries 19
Mean −0.00511
Std Dev 0.6519
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

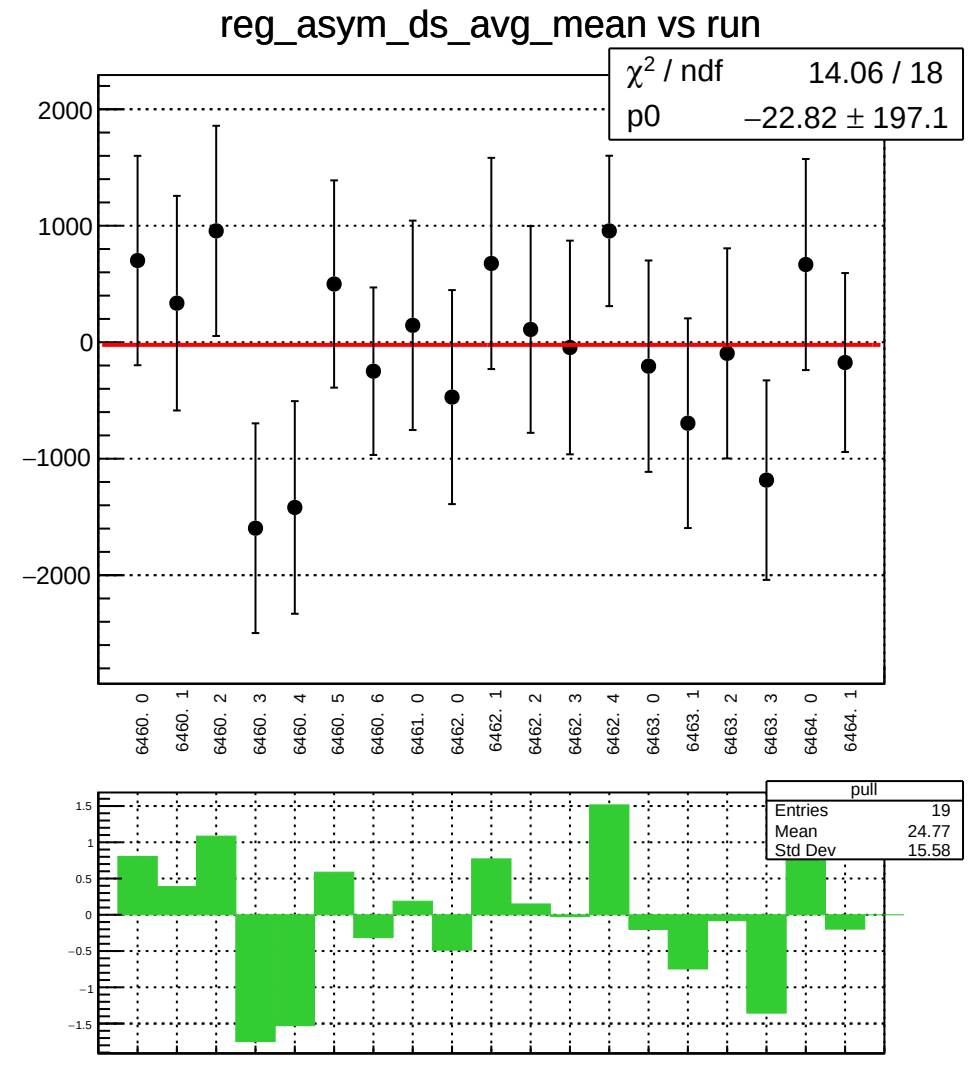

asym_us_dd_correction_rms vs run
χ² / ndf 1104 / 18
p0 561.5 ± 0.9141
620
600
580
560
540
520
500
480
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

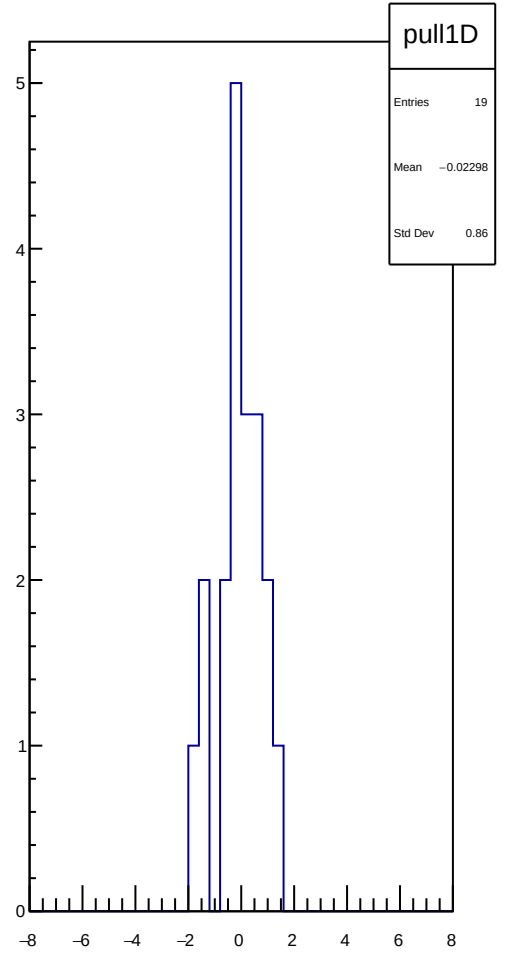

asym_us_dd_mean vs run
χ² / ndf 7.105 / 18
p0 −518.4 ± 2269
20000
10000
0
−10000
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

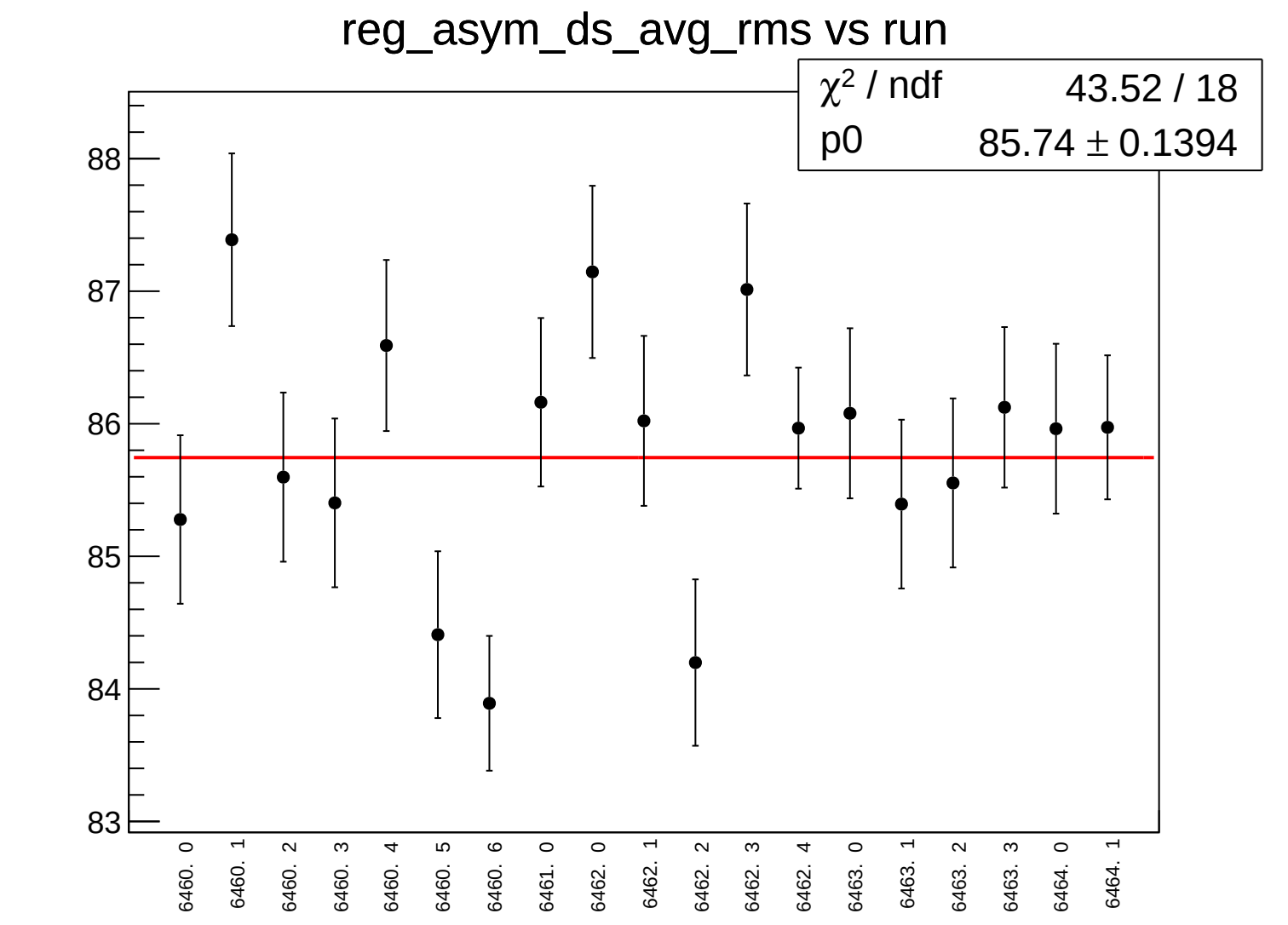

pull
Entries 19
Mean −68.33
Std Dev 78.49
1
0.5
0
−0.5
−1

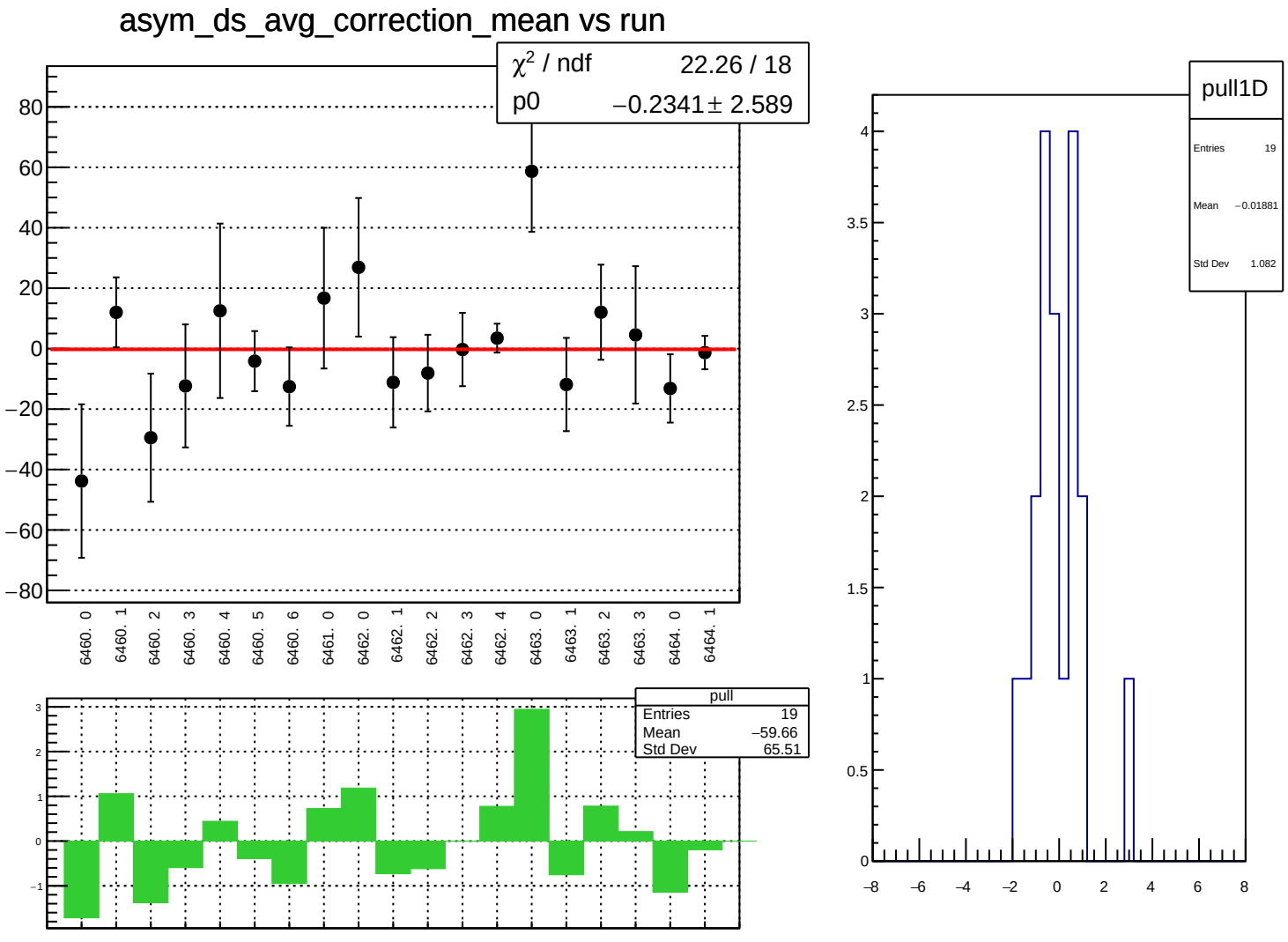

pull1D
Entries 19
Mean 0.01325
Std Dev 0.6114
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

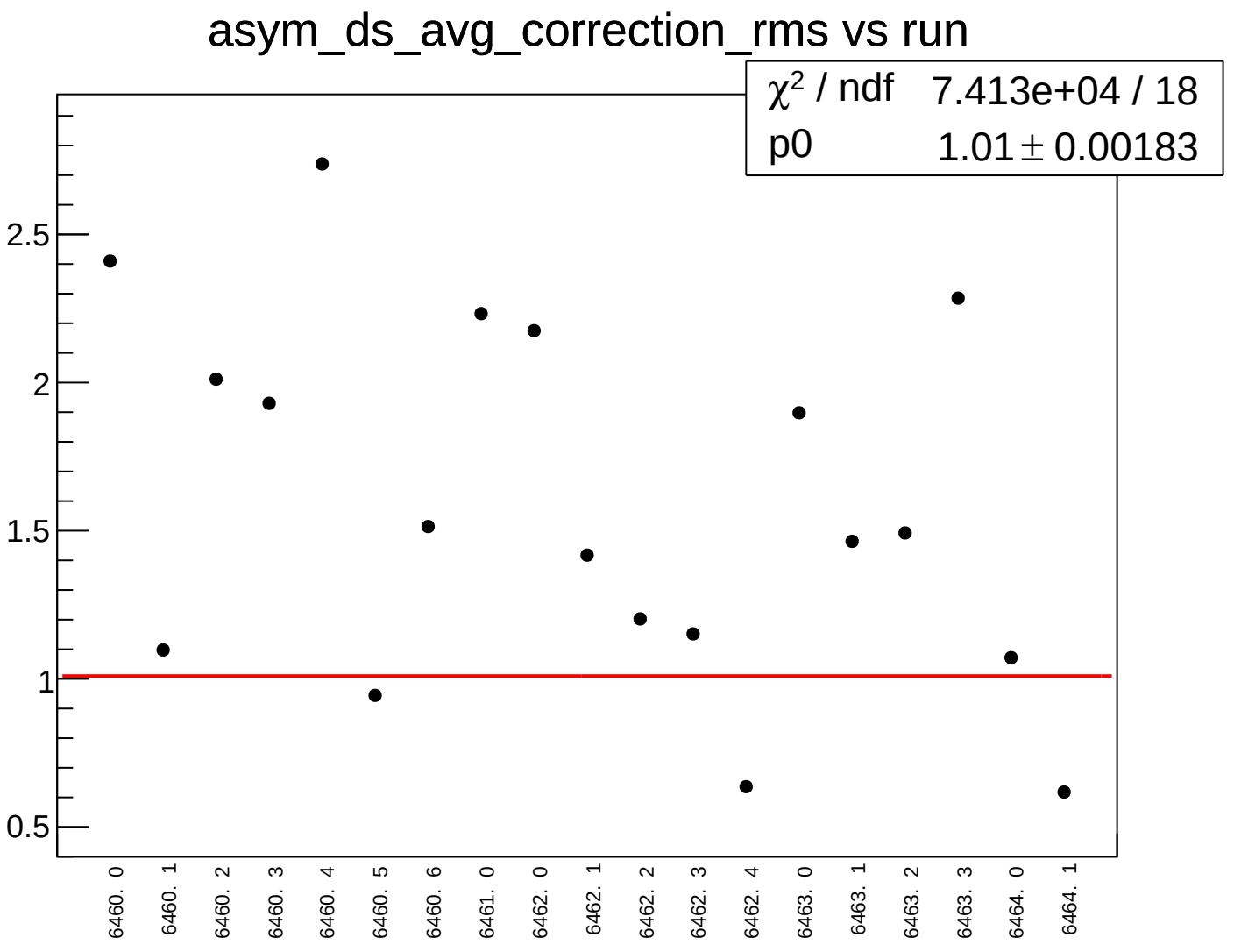

asym_us_dd_rms vs run
χ² / ndf 115.5 / 18
p0 986.7 ± 1.604
1020
1000
980
960
940
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

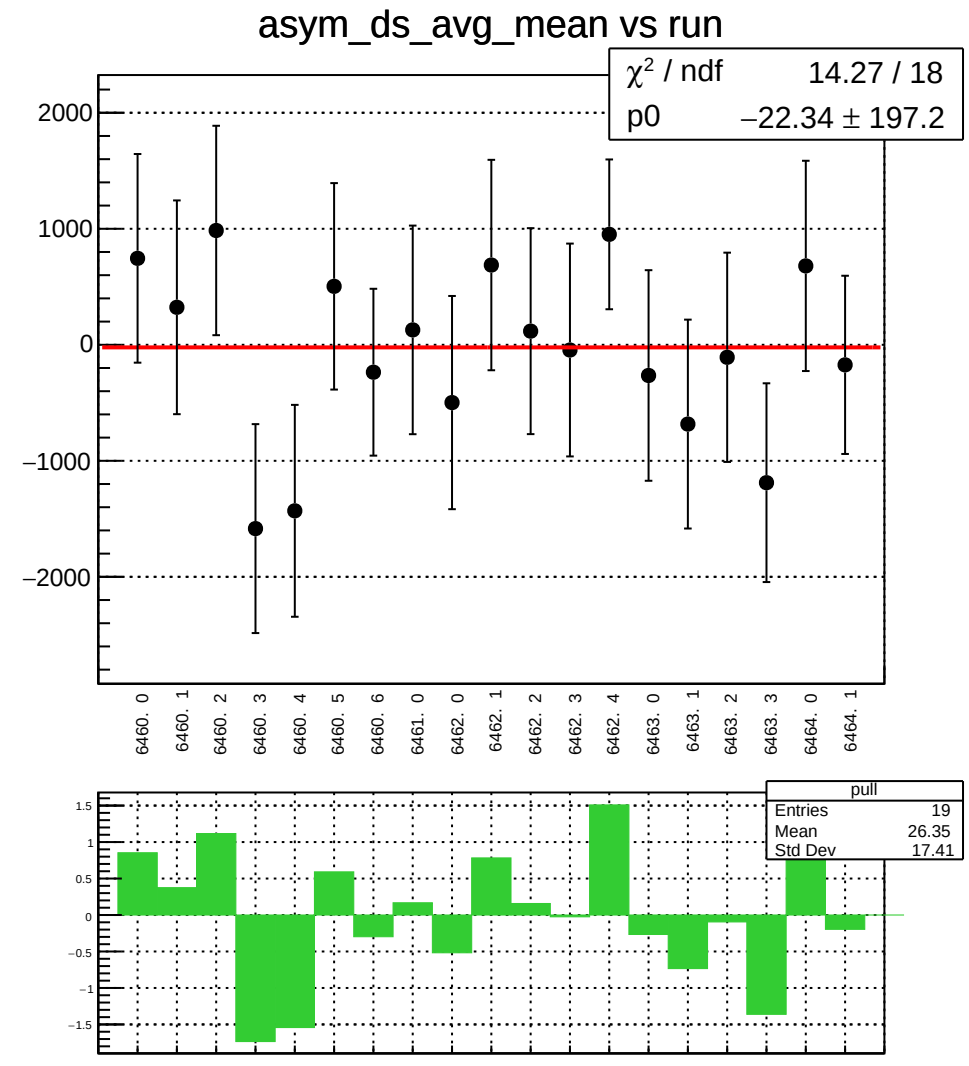

reg_asym_ds_avg_mean vs run
χ² / ndf 14.06 / 18
p0 −22.82 ± 197.1
2000
1000
0
−1000
−2000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 24.77
Std Dev 15.58
1.5
1
0.5
0
−0.5
−1
−1.5

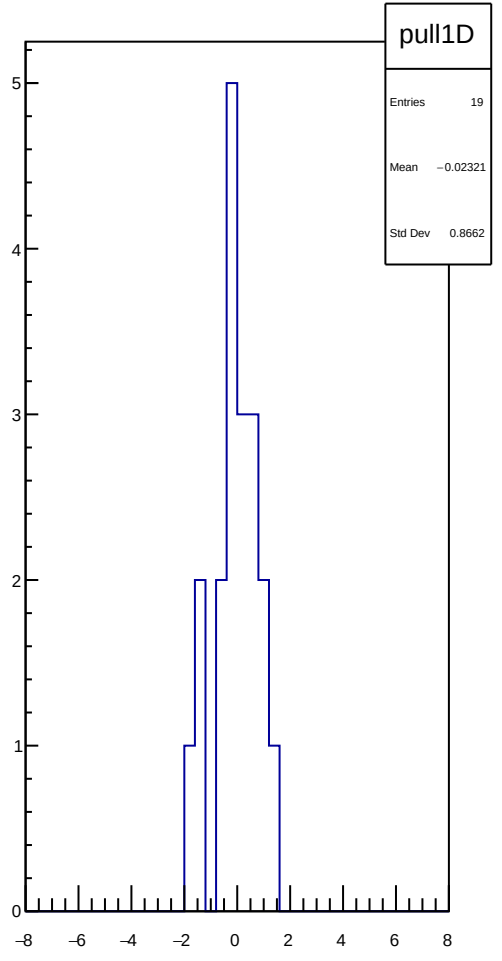

pull1D
Entries 19
Mean −0.02298
Std Dev 0.86
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

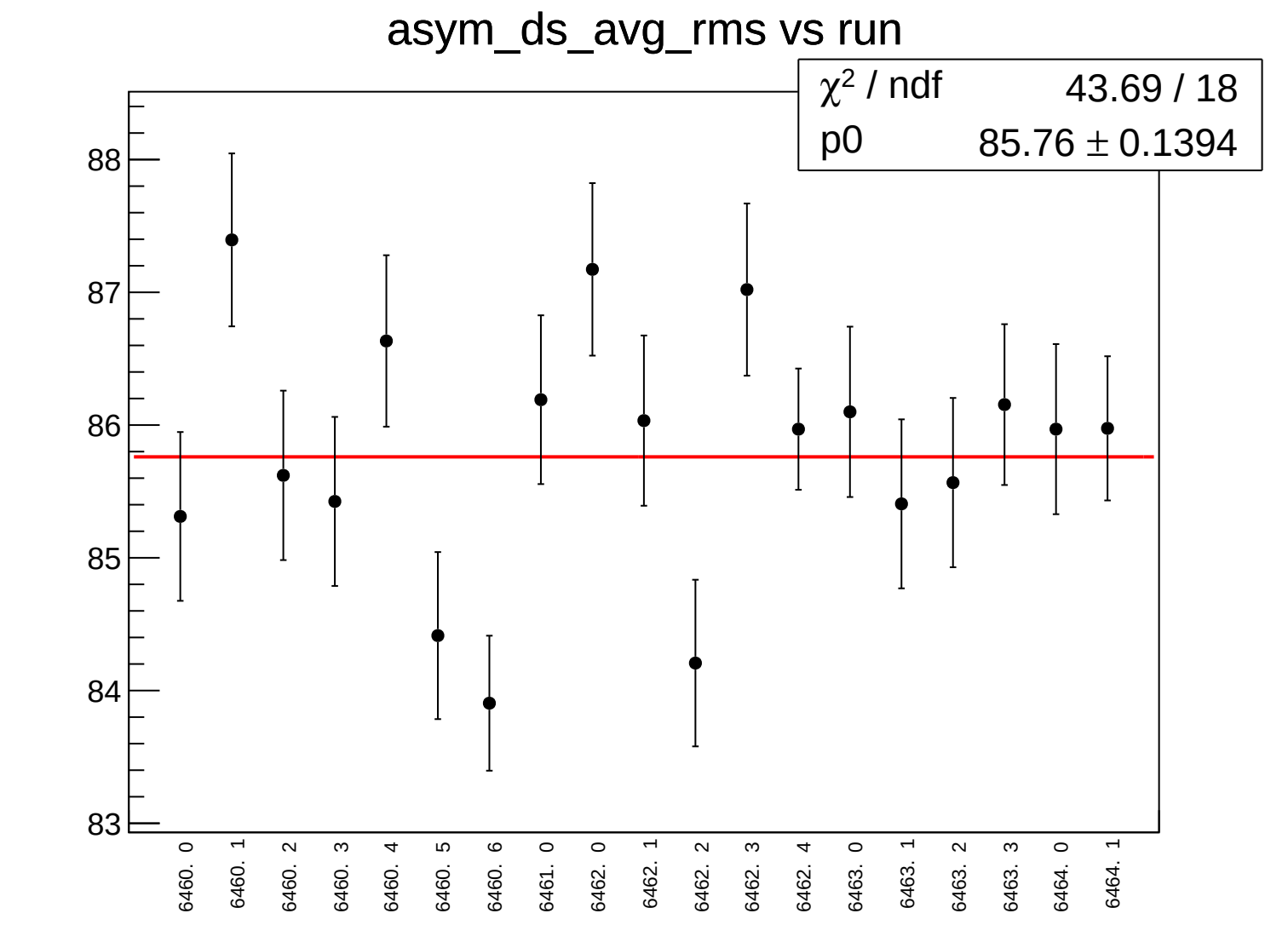

reg_asym_ds_avg_rms vs run
χ² / ndf 43.52 / 18
p0 85.74 ± 0.1394
88
87
86
85
84
83
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

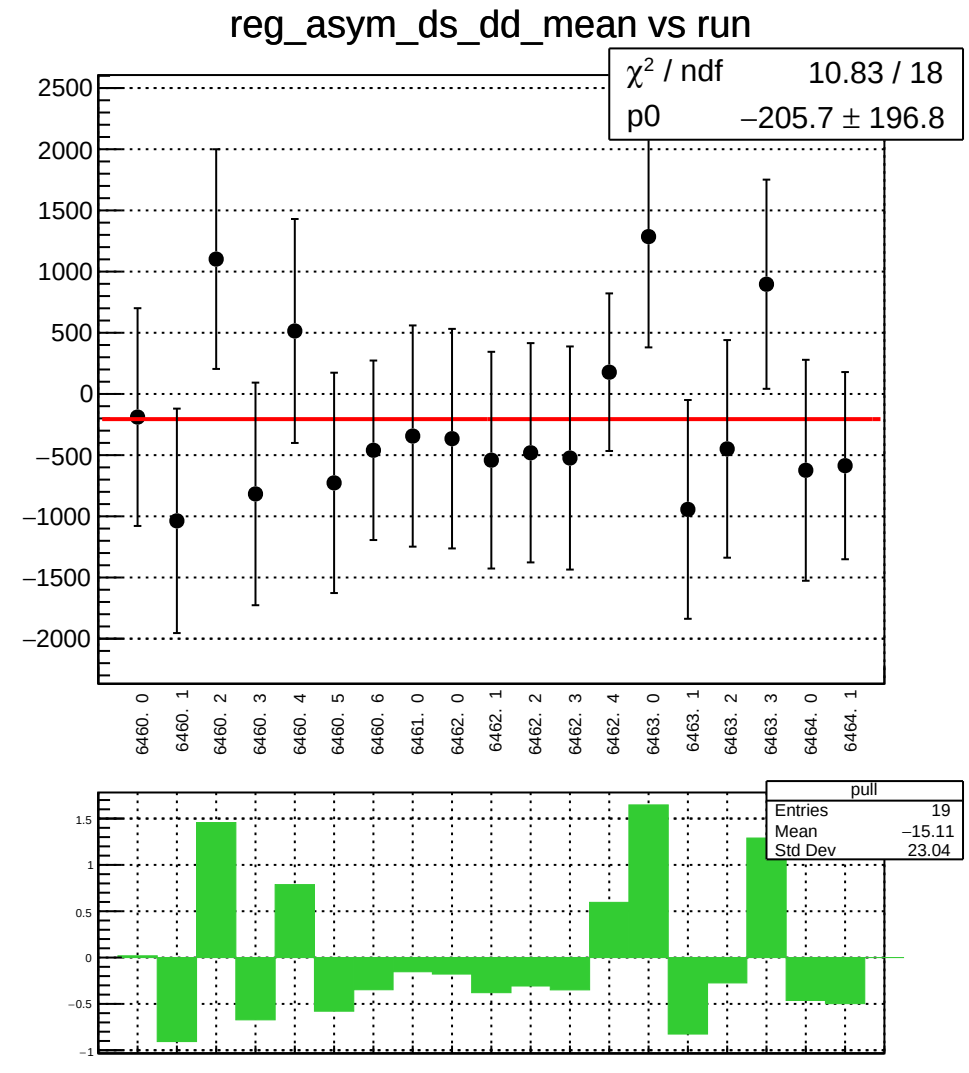

asym_ds_avg_correction_mean vs run
χ² / ndf 22.26 / 18
p0 −0.2341 ± 2.589
80
60
40
20
0
−20
−40
−60
−80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −59.66
Std Dev 65.51
3
2
1
0
−1
pull1D
Entries 19
Mean −0.01881
Std Dev 1.082
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

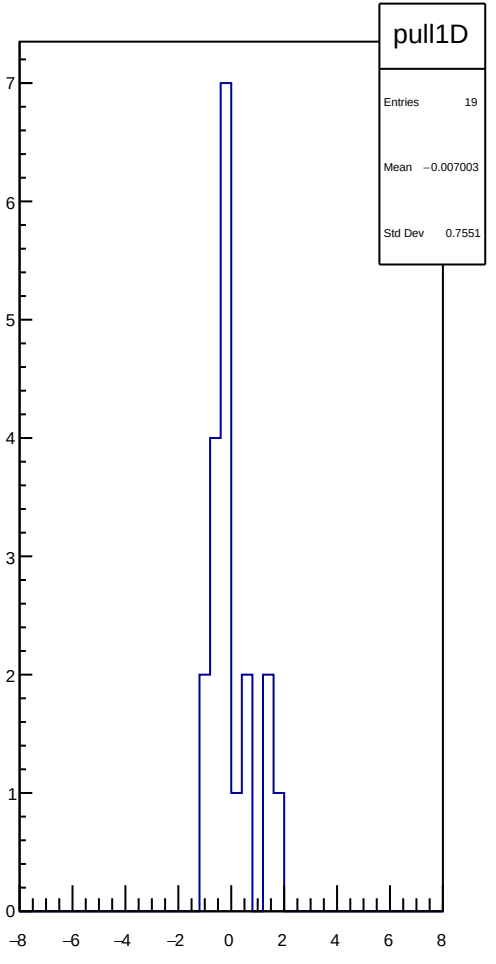

asym_ds_avg_correction_rms vs run
χ² / ndf 7.413e+04 / 18
p0 1.01 ± 0.00183
2.5
2
1.5
1
0.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

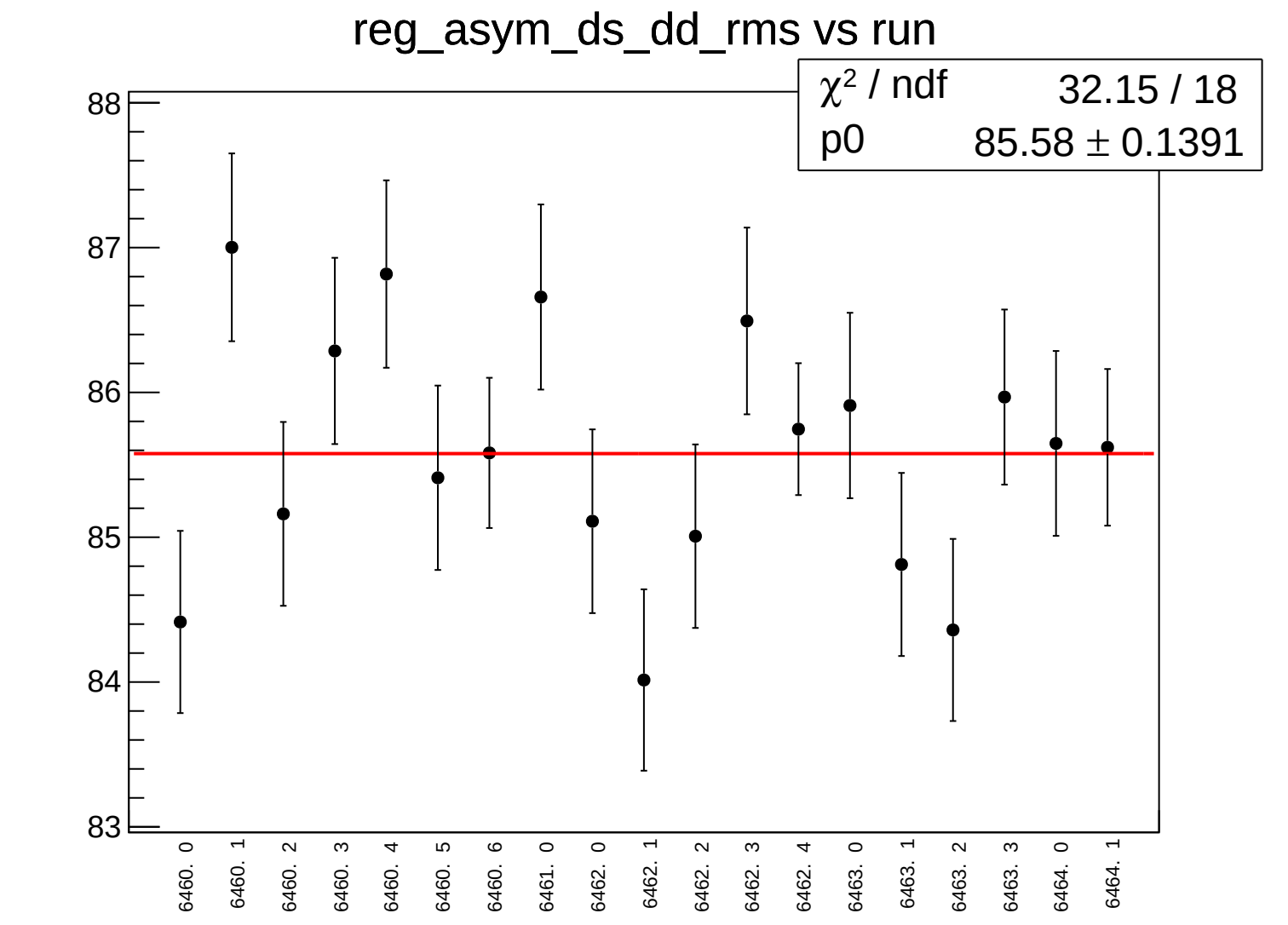

asym_ds_avg_mean vs run
χ² / ndf 14.27 / 18
p0 −22.34 ± 197.2
2000
1000
0
−1000
−2000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 26.35
Std Dev 17.41
1.5
1
0.5
0
−0.5
−1
−1.5

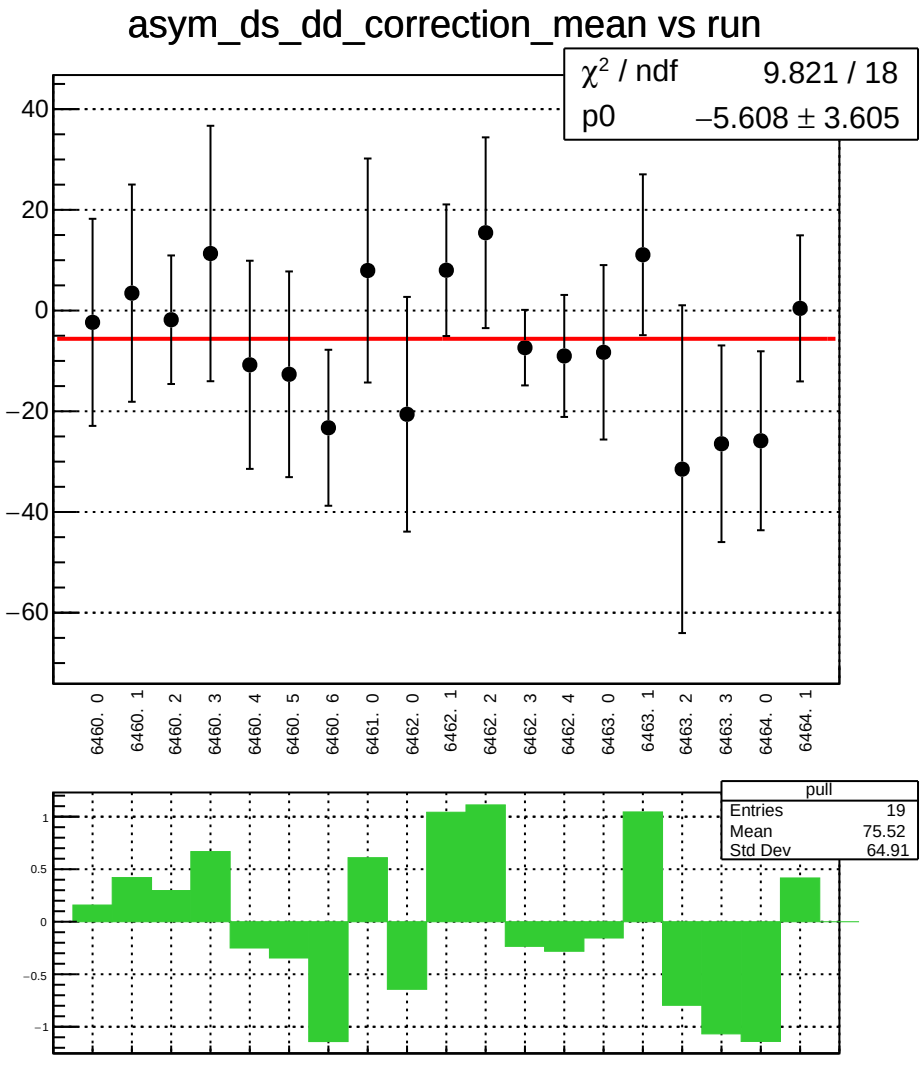

pull1D
Entries 19
Mean −0.02321
Std Dev 0.8662
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

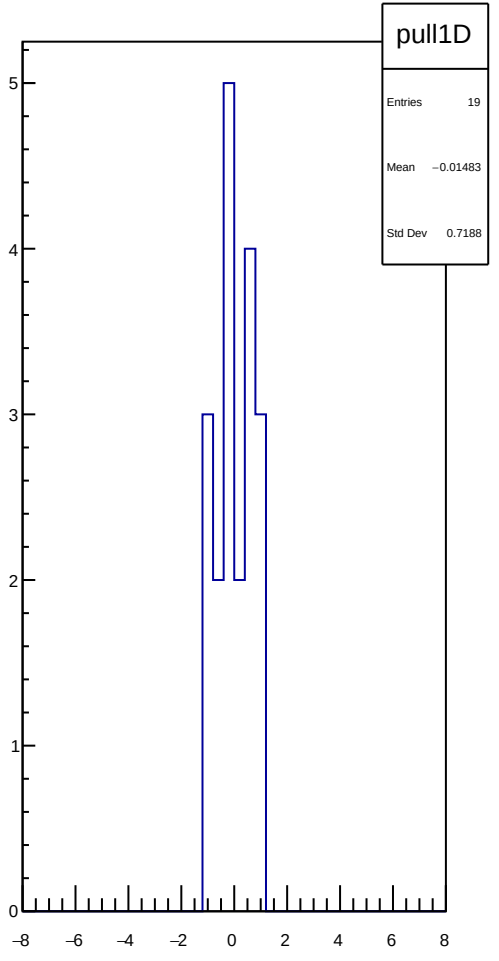

asym_ds_avg_rms vs run
χ² / ndf 43.69 / 18
p0 85.76 ± 0.1394
88
87
86
85
84
83
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

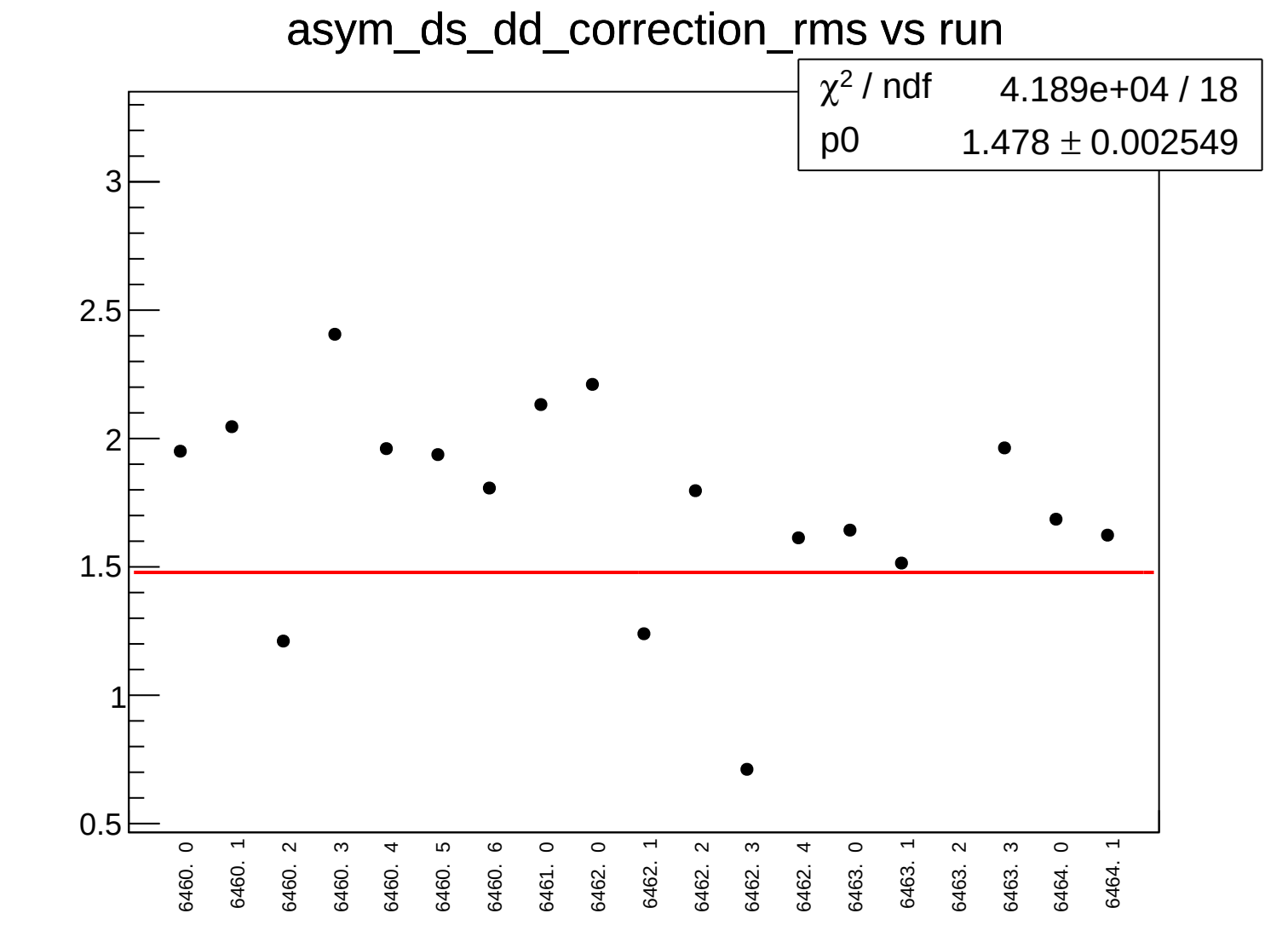

reg_asym_ds_dd_mean vs run
χ² / ndf 10.83 / 18
p0 −205.7 ± 196.8
2500
2000
1500
1000
500
0
−500
−1000
−1500
−2000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −15.11
Std Dev 23.04
1.5
1
0.5
0
−0.5
−1

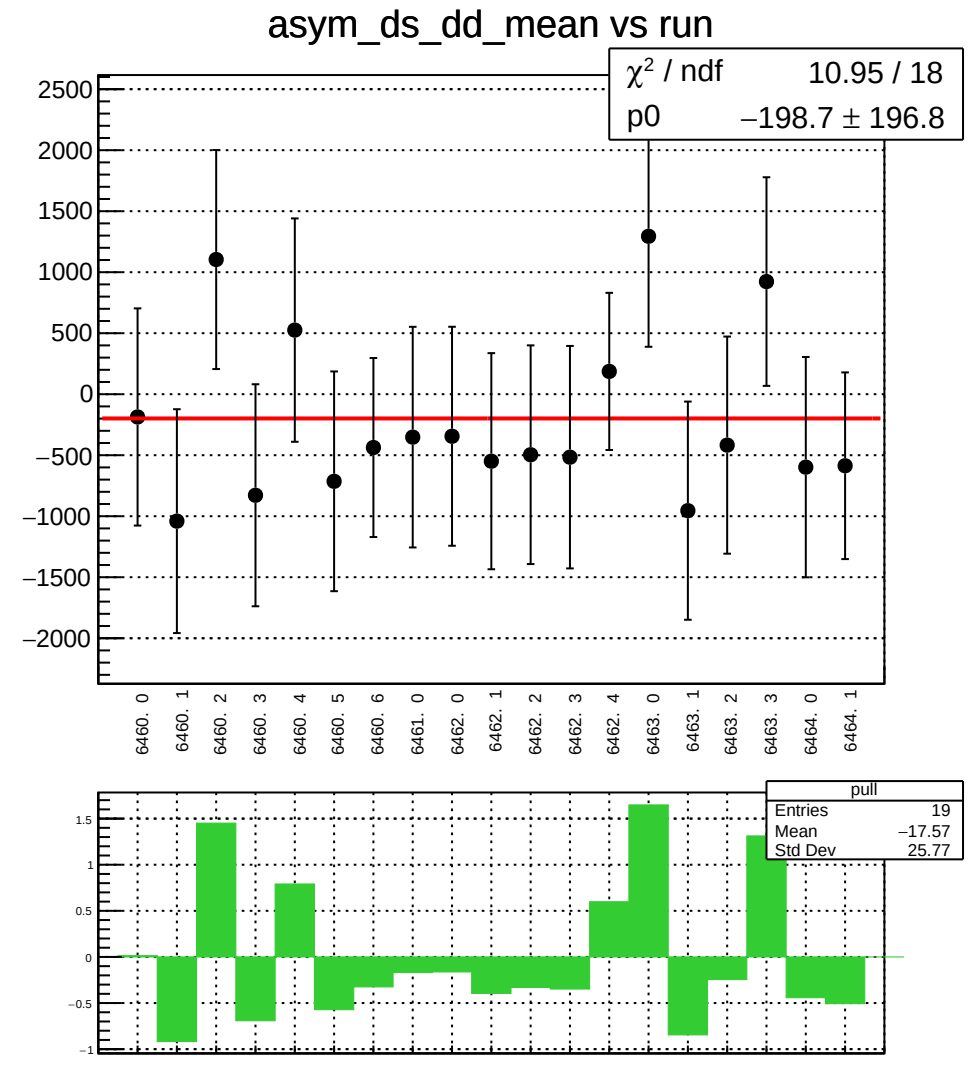

pull1D
Entries 19
Mean −0.007003
Std Dev 0.7551
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

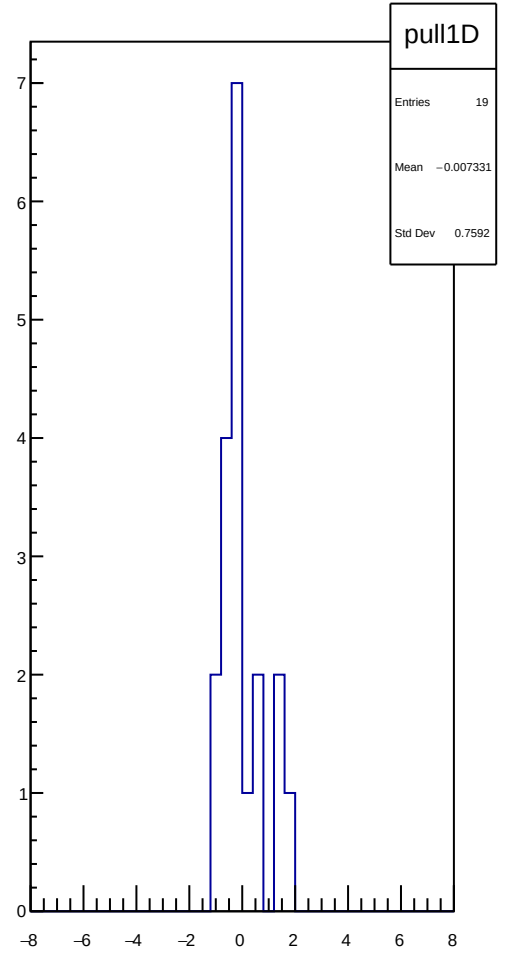

reg_asym_ds_dd_rms vs run
χ² / ndf 32.15 / 18
p0 85.58 ± 0.1391
88
87
86
85
84
83
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

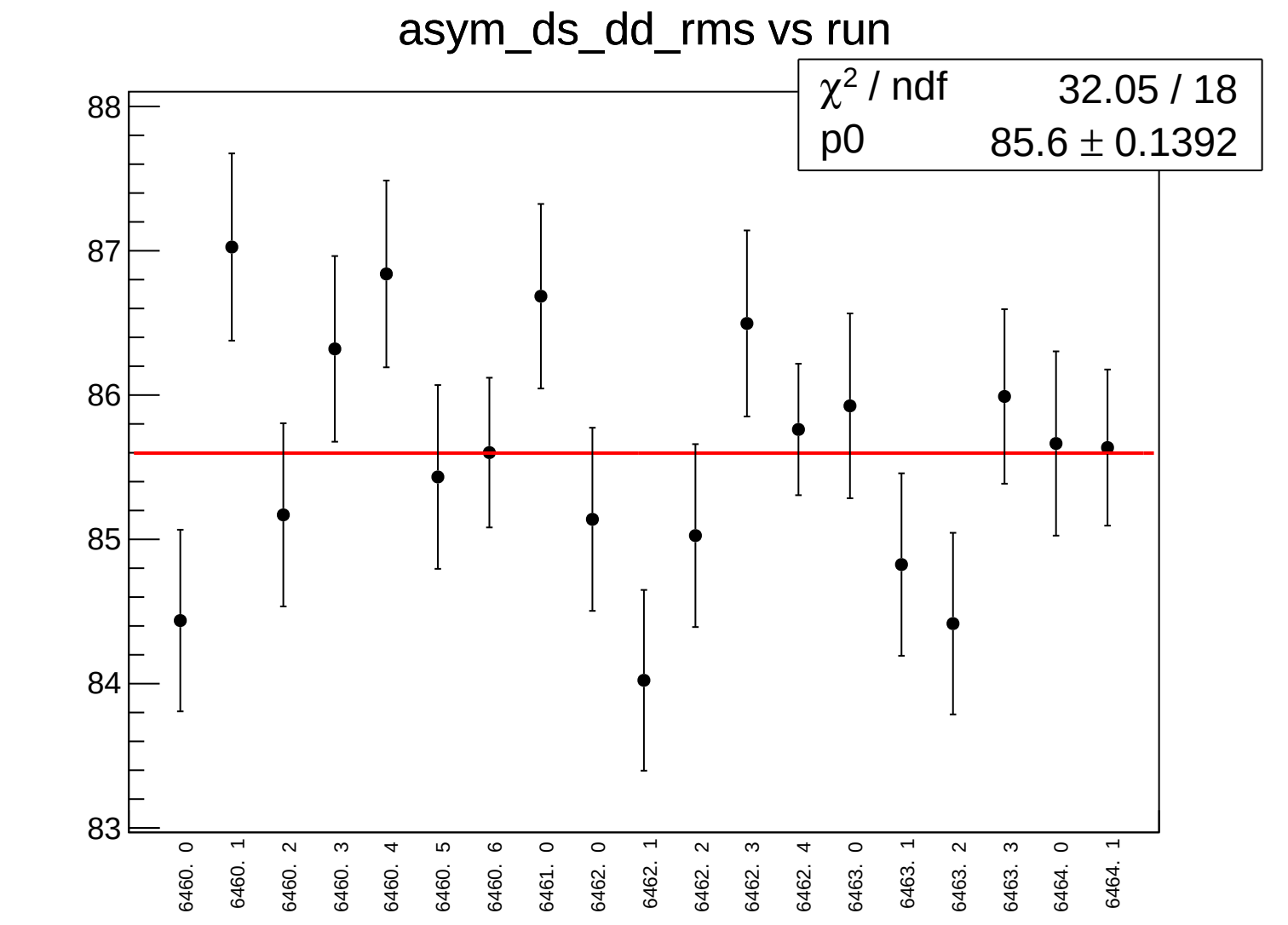

asym_ds_dd_correction_mean vs run
χ² / ndf 9.821 / 18
p0 −5.608 ± 3.605
40
20
0
−20
−40
−60
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 75.52
Std Dev 64.91
1
0.5
0
−0.5
−1

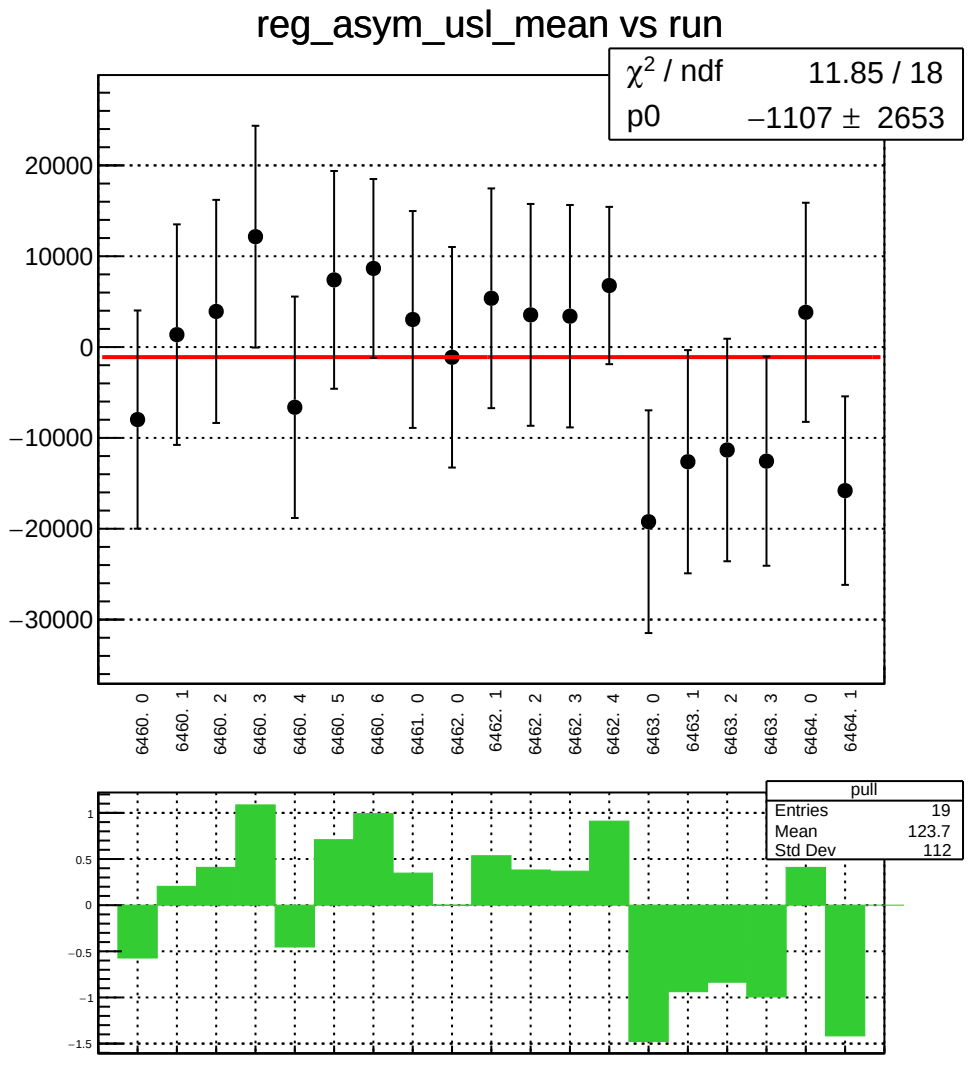

pull1D
Entries 19
Mean −0.01483
Std Dev 0.7188
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

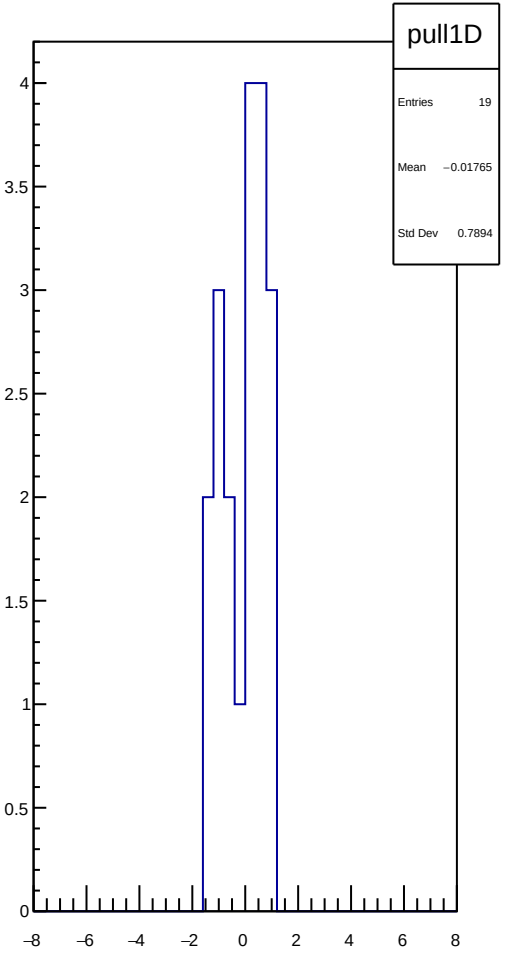

asym_ds_dd_correction_rms vs run
χ² / ndf 4.189e+04 / 18
p0 1.478 ± 0.002549
3
2.5
2
1.5
1
0.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

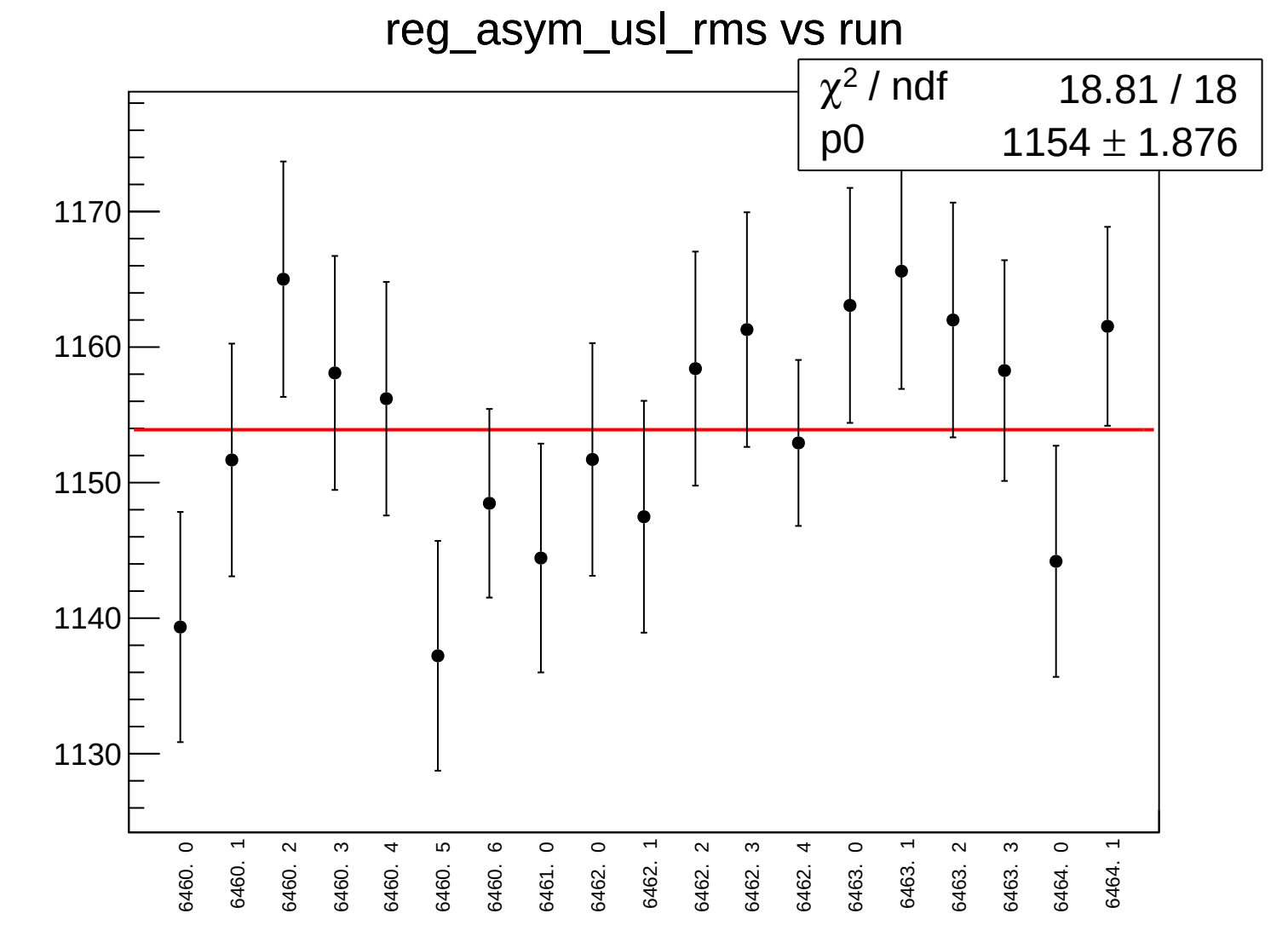

asym_ds_dd_mean vs run
χ² / ndf 10.95 / 18
p0 −198.7 ± 196.8
2500
2000
1500
1000
500
0
−500
−1000
−1500
−2000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −17.57
Std Dev 25.77
1.5
1
0.5
0
−0.5
−1

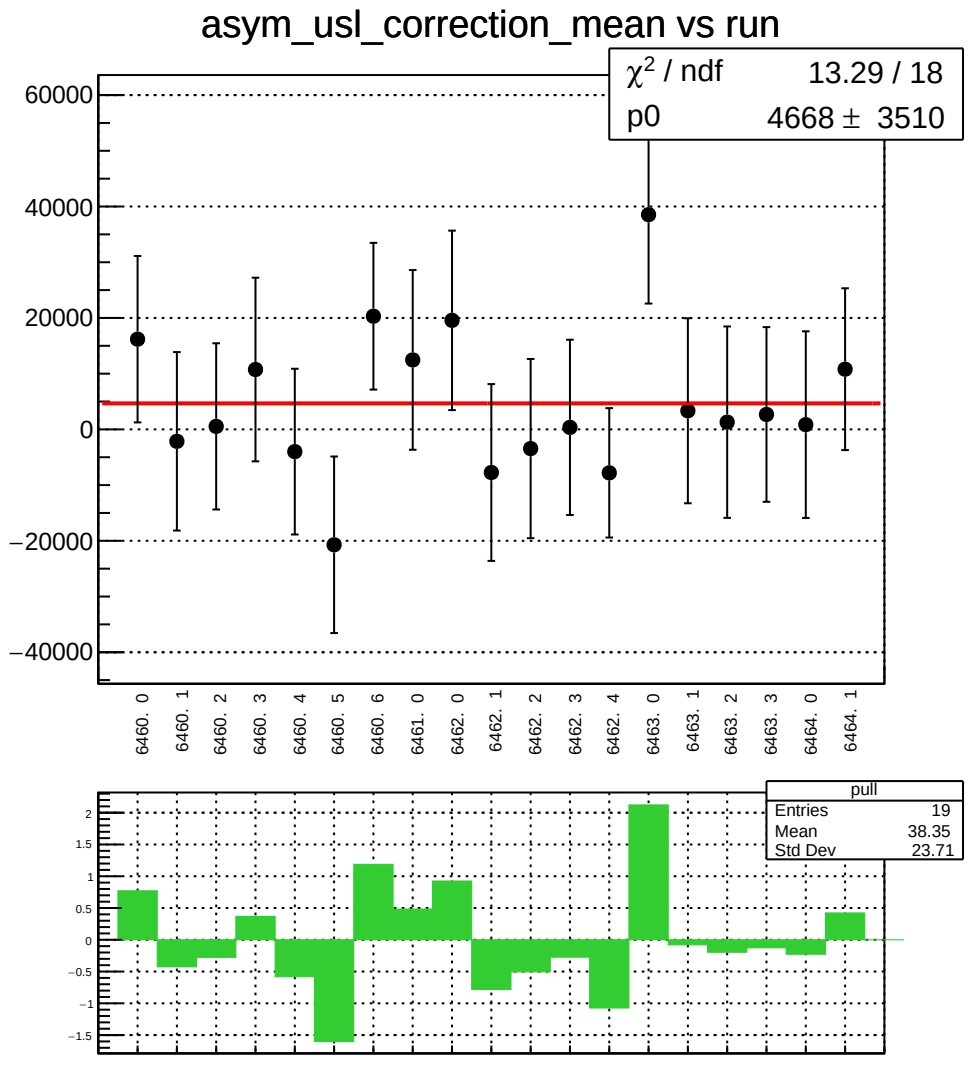

pull1D
Entries 19
Mean −0.007331
Std Dev 0.7592
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

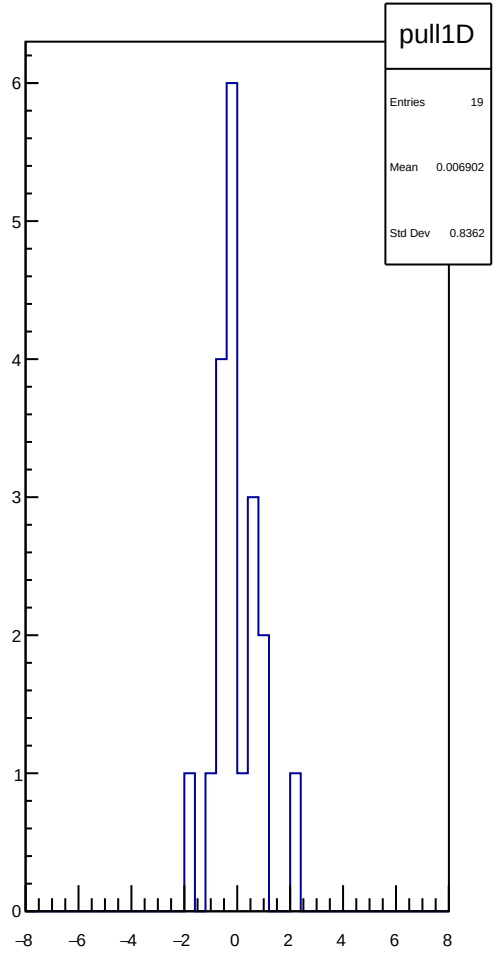

asym_ds_dd_rms vs run
χ^2 / ndf 32.05 / 18
p0 85.6 ± 0.1392
88
87
86
85
84
83
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

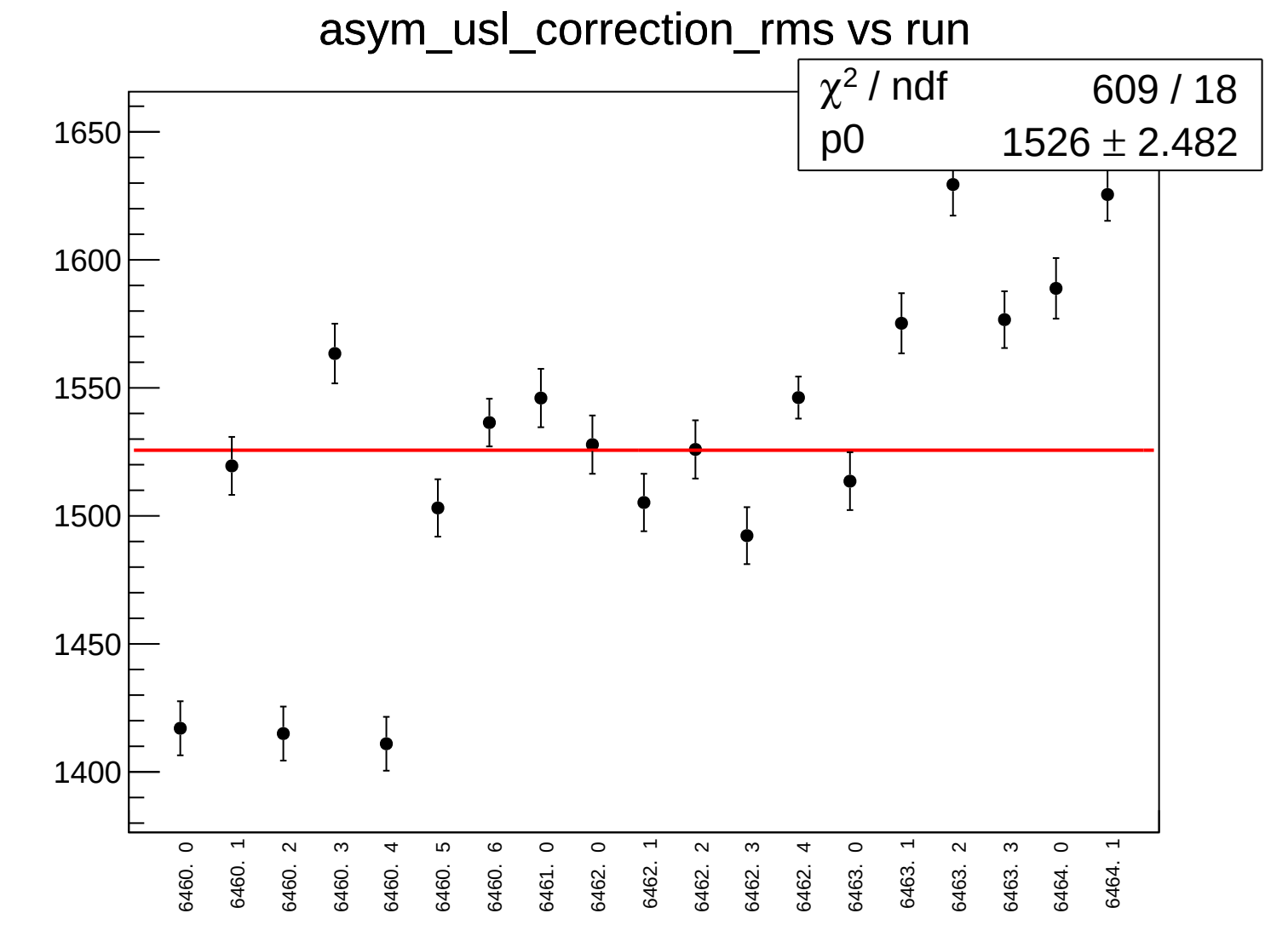

reg_asym_usl_mean vs run
χ² / ndf 11.85 / 18
p0 −1107 ± 2653
20000
10000
0
−10000
−20000
−30000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 123.7
Std Dev 112
1
0.5
0
−0.5
−1
−1.5

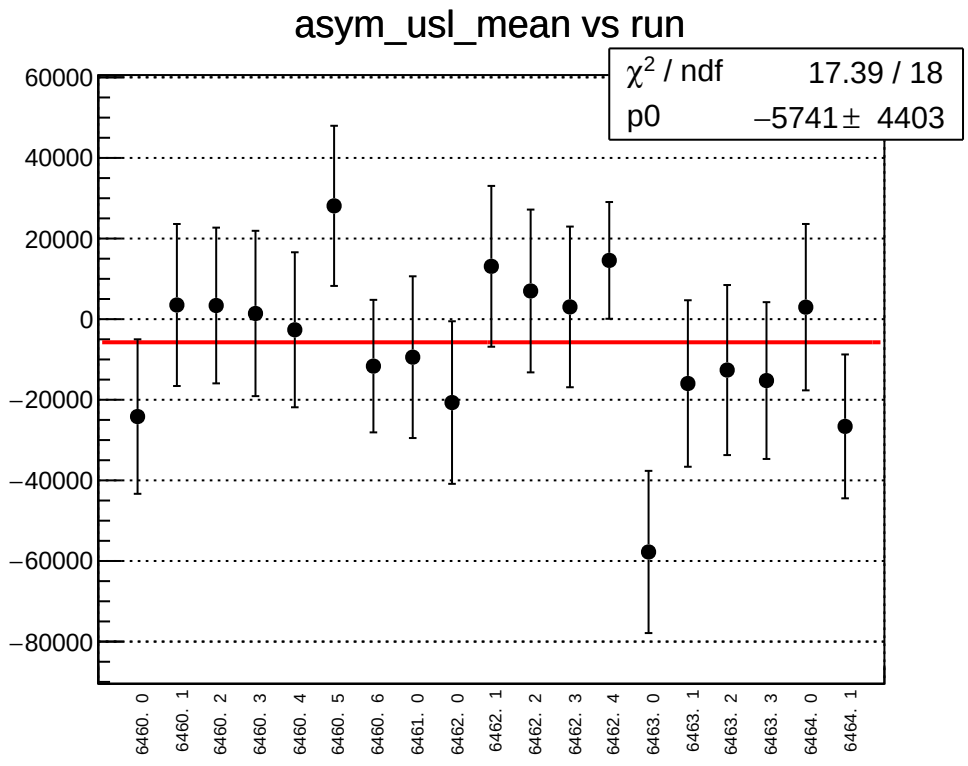

pull1D
Entries 19
Mean −0.01765
Std Dev 0.7894
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

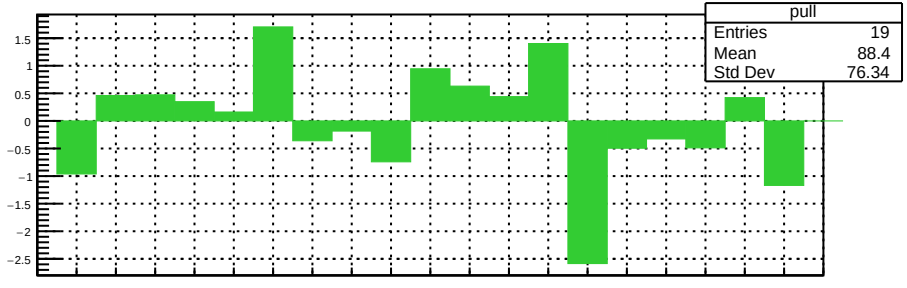

reg_asym_usl_rms vs run
χ² / ndf 18.81 / 18
p0 1154 ± 1.876
1170
1160
1150
1140
1130
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

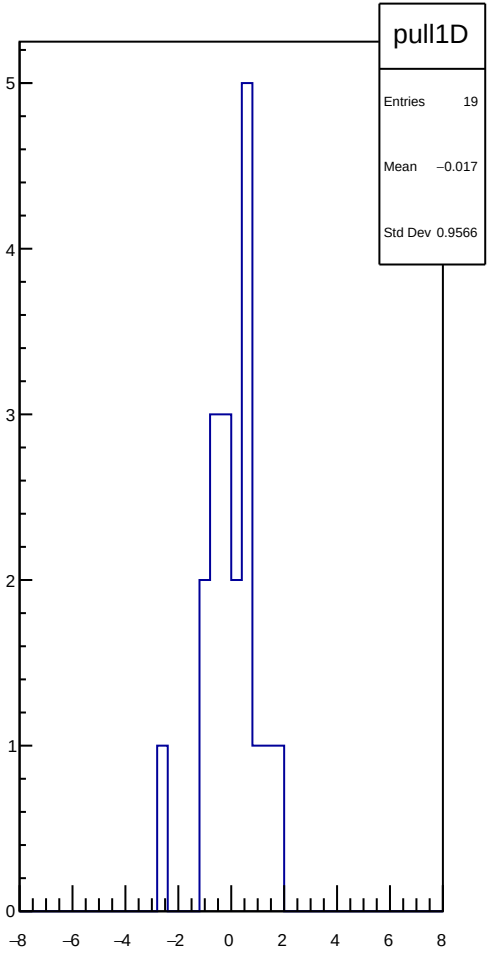

asym_usl_correction_mean vs run
χ² / ndf 13.29 / 18
p0 4668 ± 3510
60000
40000
20000
0
−20000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 38.35
Std Dev 23.71
2
1.5
1
0.5
0
−0.5
−1
−1.5

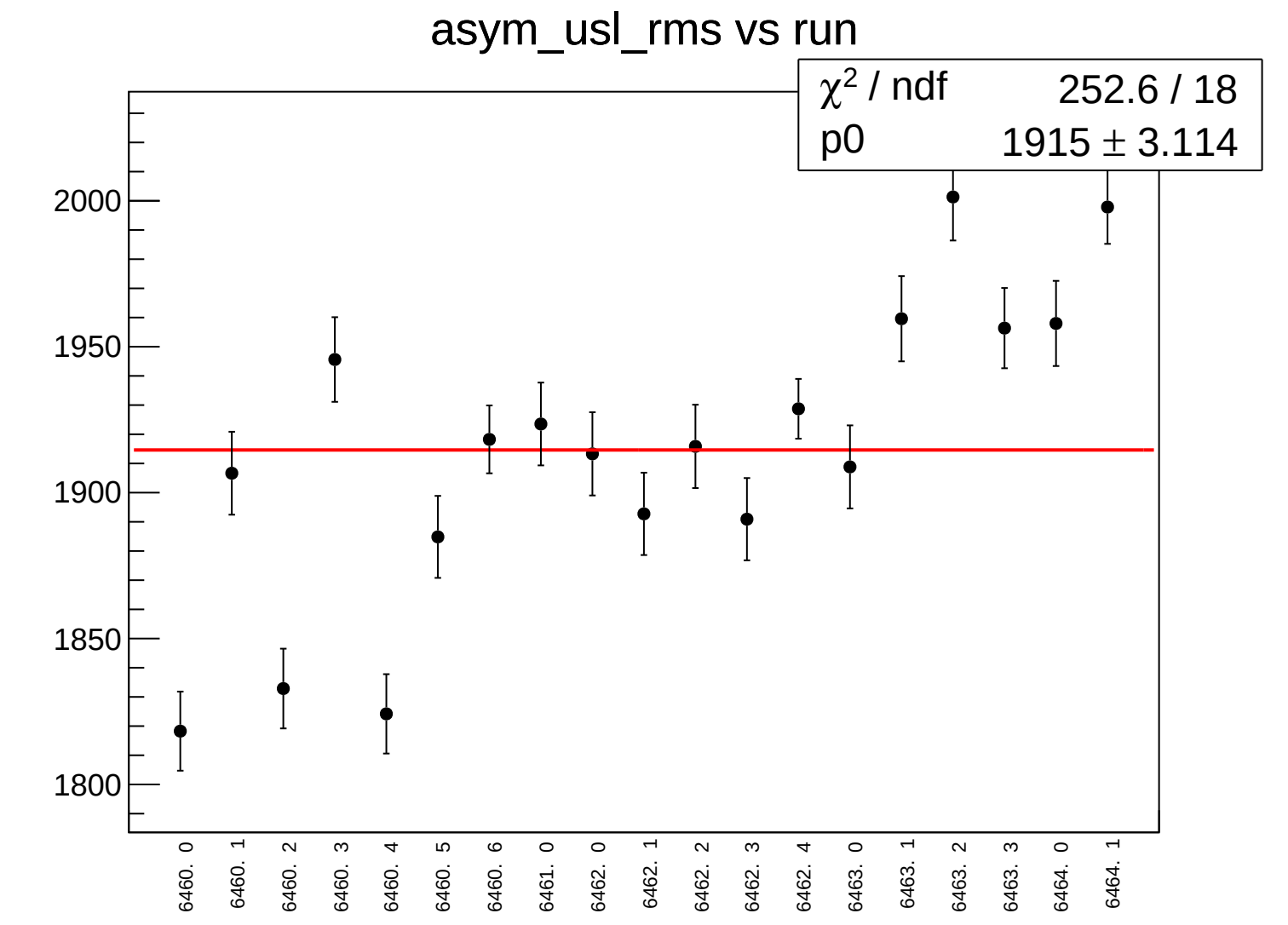

pull1D
Entries 19
Mean 0.006902
Std Dev 0.8362
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

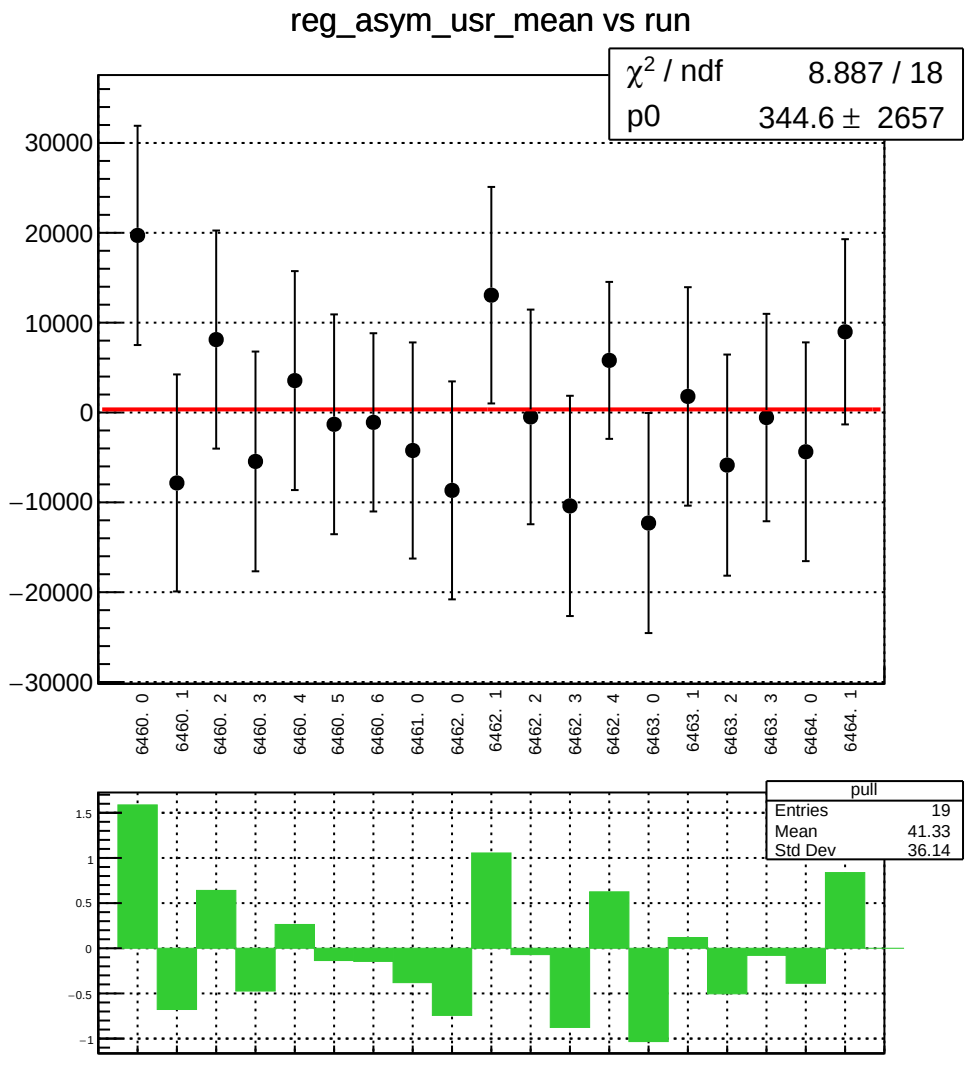

asym_usl_correction_rms vs run
χ² / ndf 609 / 18
p0 1526 ± 2.482
1650
1600
1550
1500
1450
1400
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

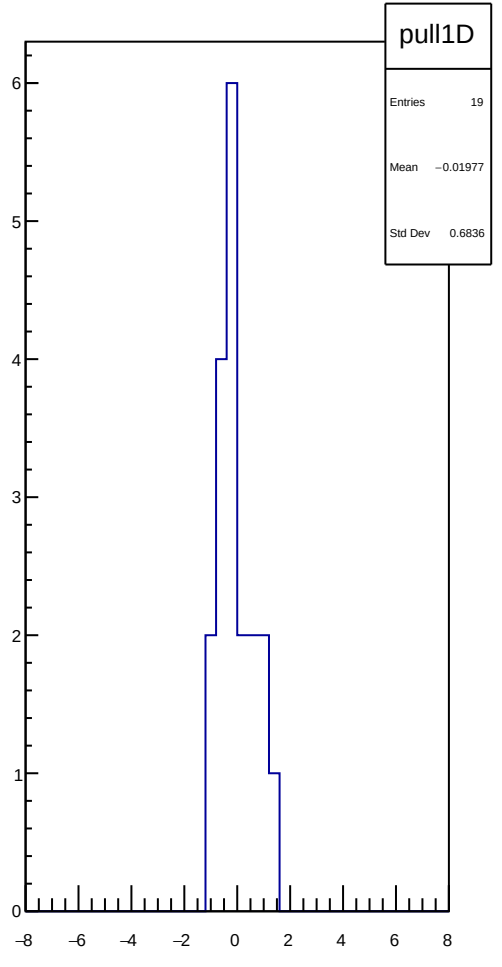

asym_usl_mean vs run
χ² / ndf 17.39 / 18
p0 −5741 ± 4403
60000
40000
20000
0
−20000
−40000
−60000
−80000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

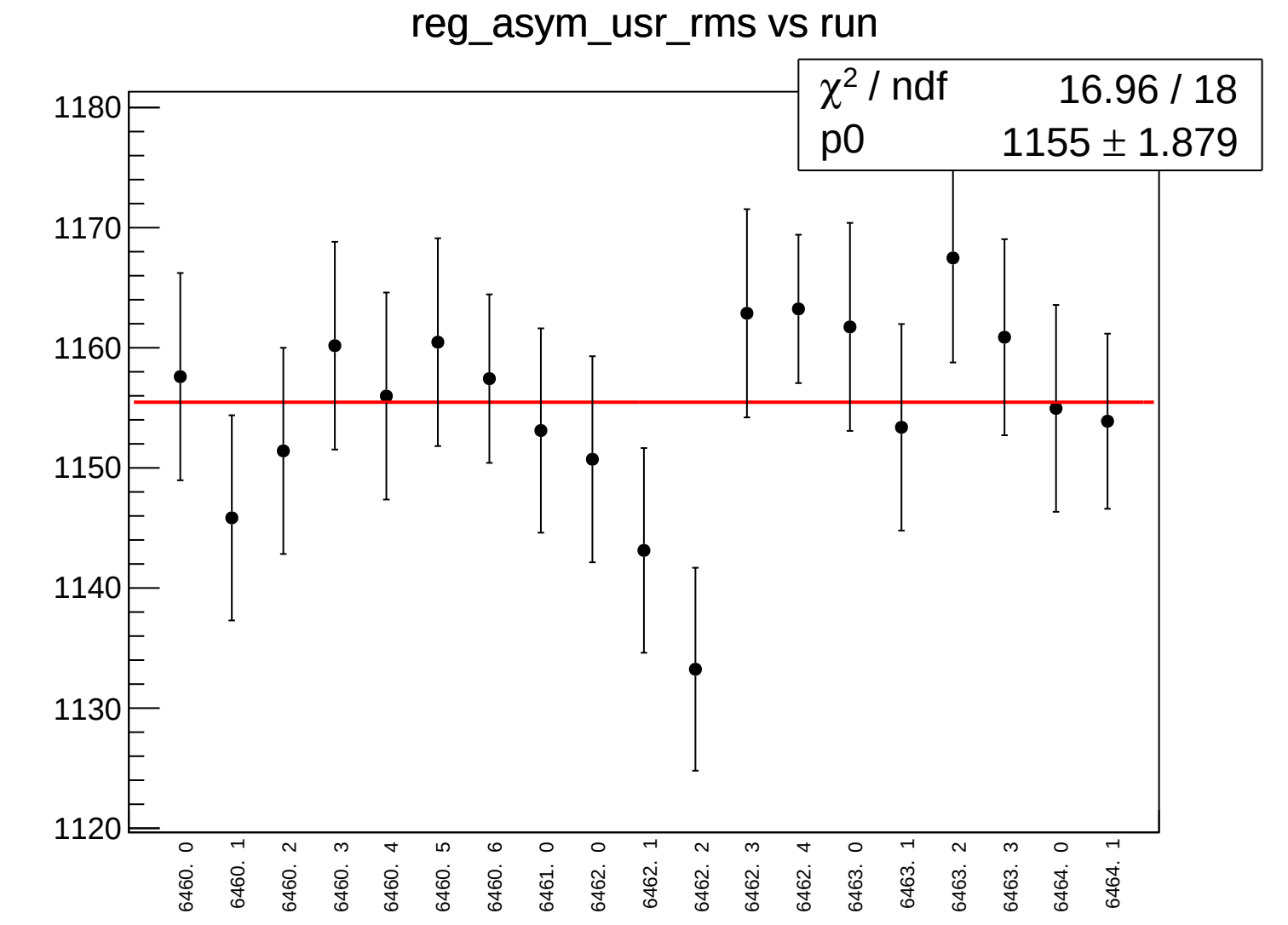

pull
Entries 19
Mean 88.4
Std Dev 76.34
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

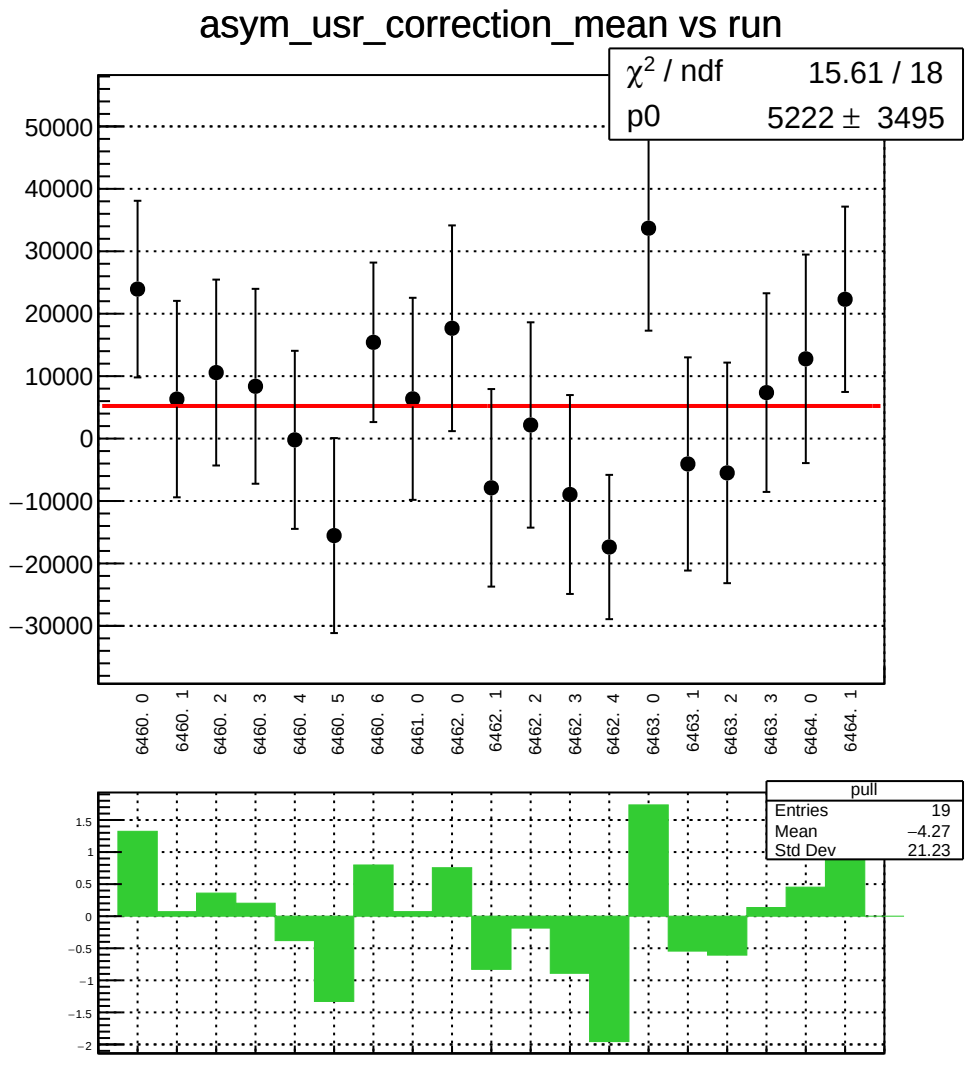

pull1D
Entries 19
Mean −0.017
Std Dev 0.9566
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

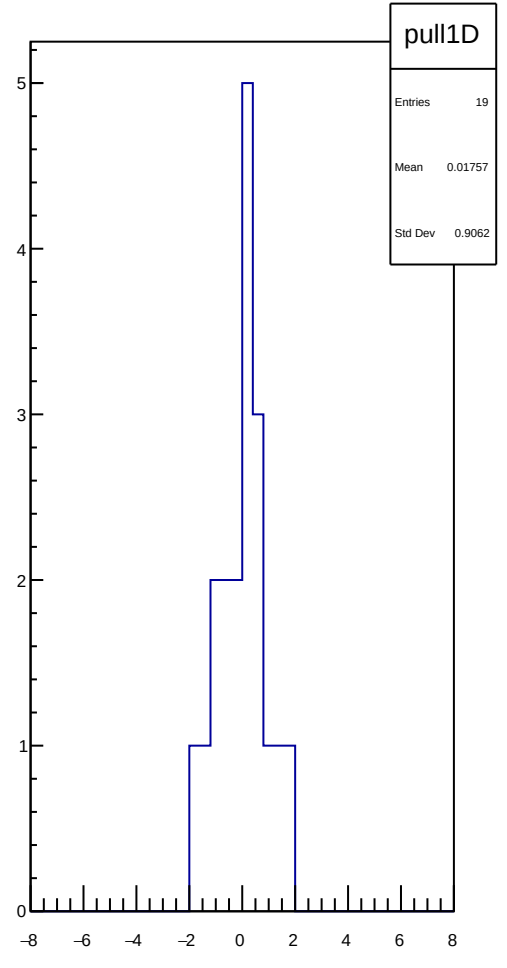

asym_usl_rms vs run
χ² / ndf 252.6 / 18
p0 1915 ± 3.114
2000
1950
1900
1850
1800
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

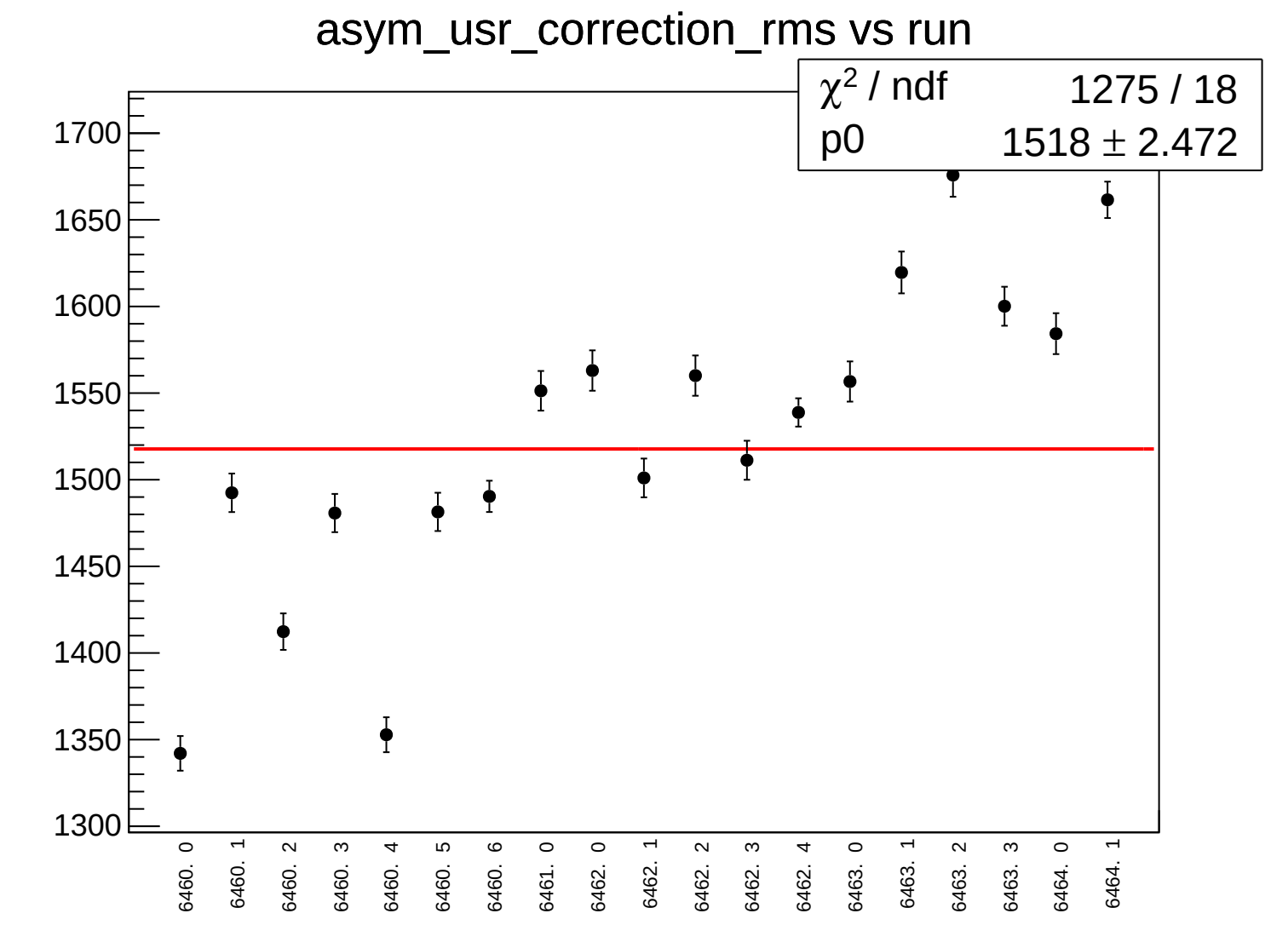

reg_asym_usr_mean vs run
χ² / ndf 8.887 / 18
p0 344.6 ± 2657
30000
20000
10000
0
−10000
−20000
−30000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 41.33
Std Dev 36.14
1.5
1
0.5
0
−0.5
−1

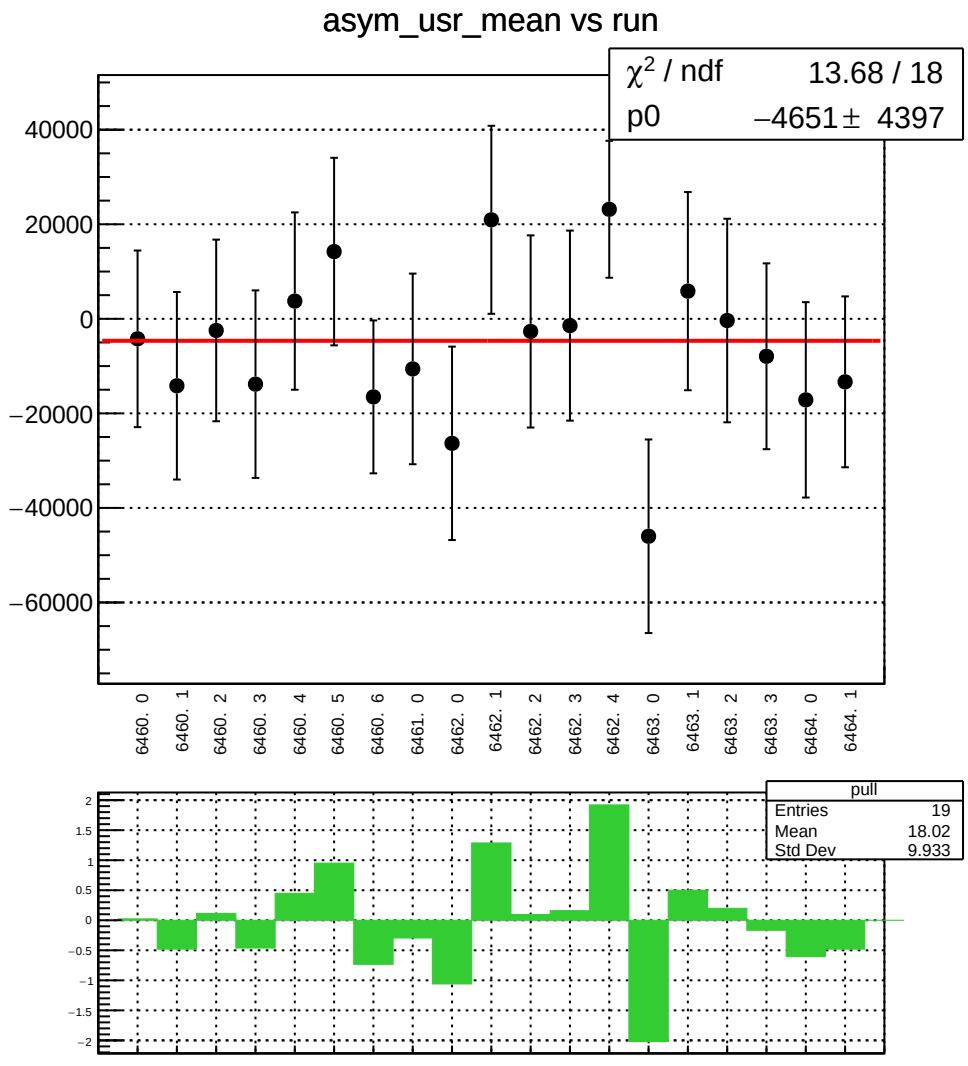

pull1D
Entries 19
Mean −0.01977
Std Dev 0.6836
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

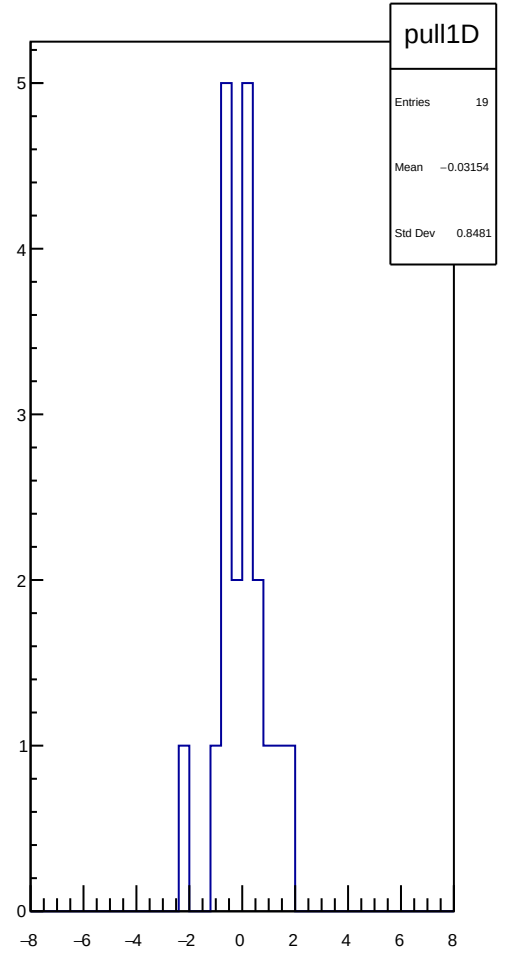

reg_asym_usr_rms vs run
χ² / ndf 16.96 / 18
p0 1155 ± 1.879
1180
1170
1160
1150
1140
1130
1120
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

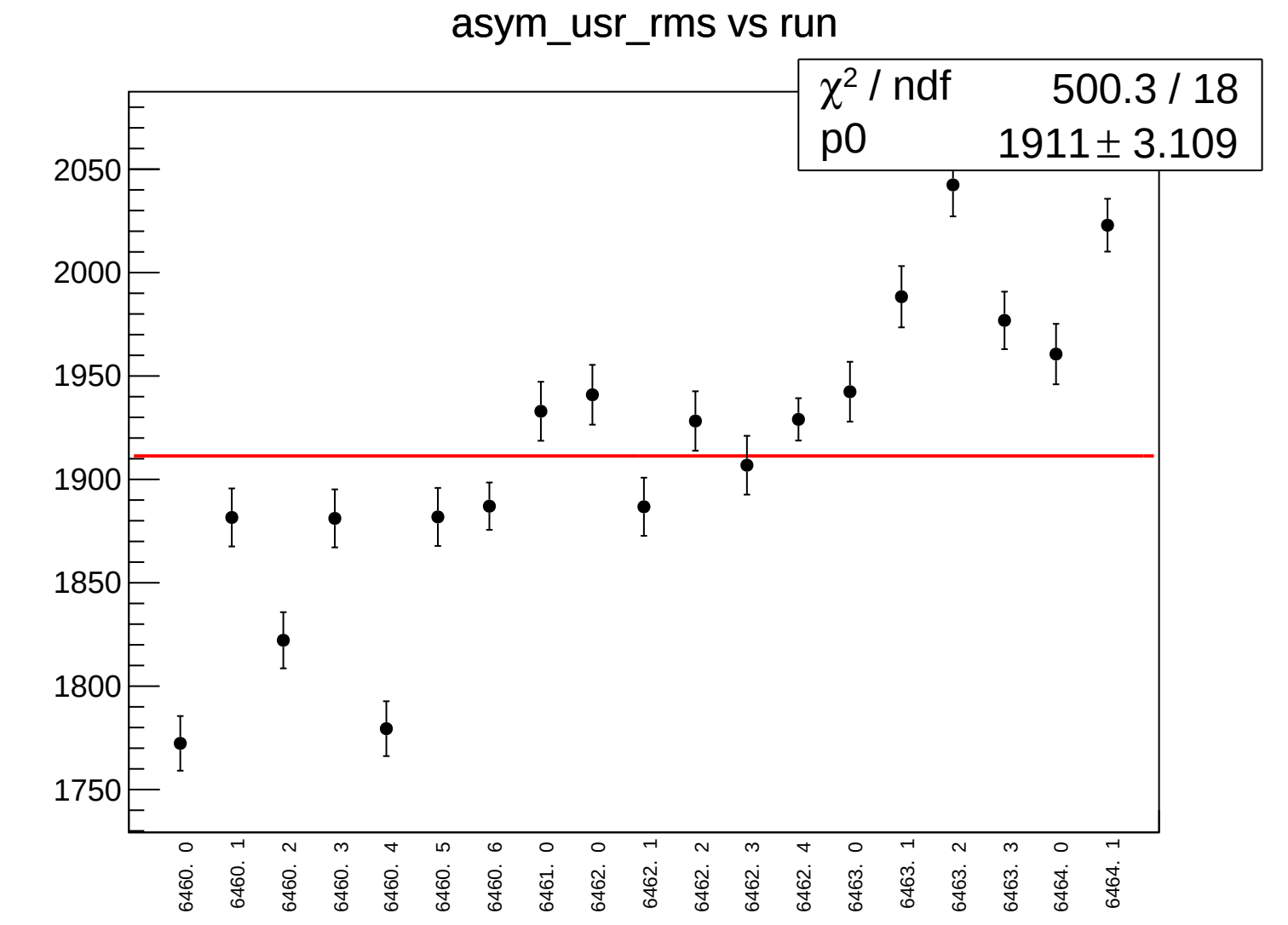

asym_usr_correction_mean vs run
χ² / ndf 15.61 / 18
p0 5222 ± 3495
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −4.27
Std Dev 21.23
1.5
1
0.5
0
−0.5
−1
−1.5
−2

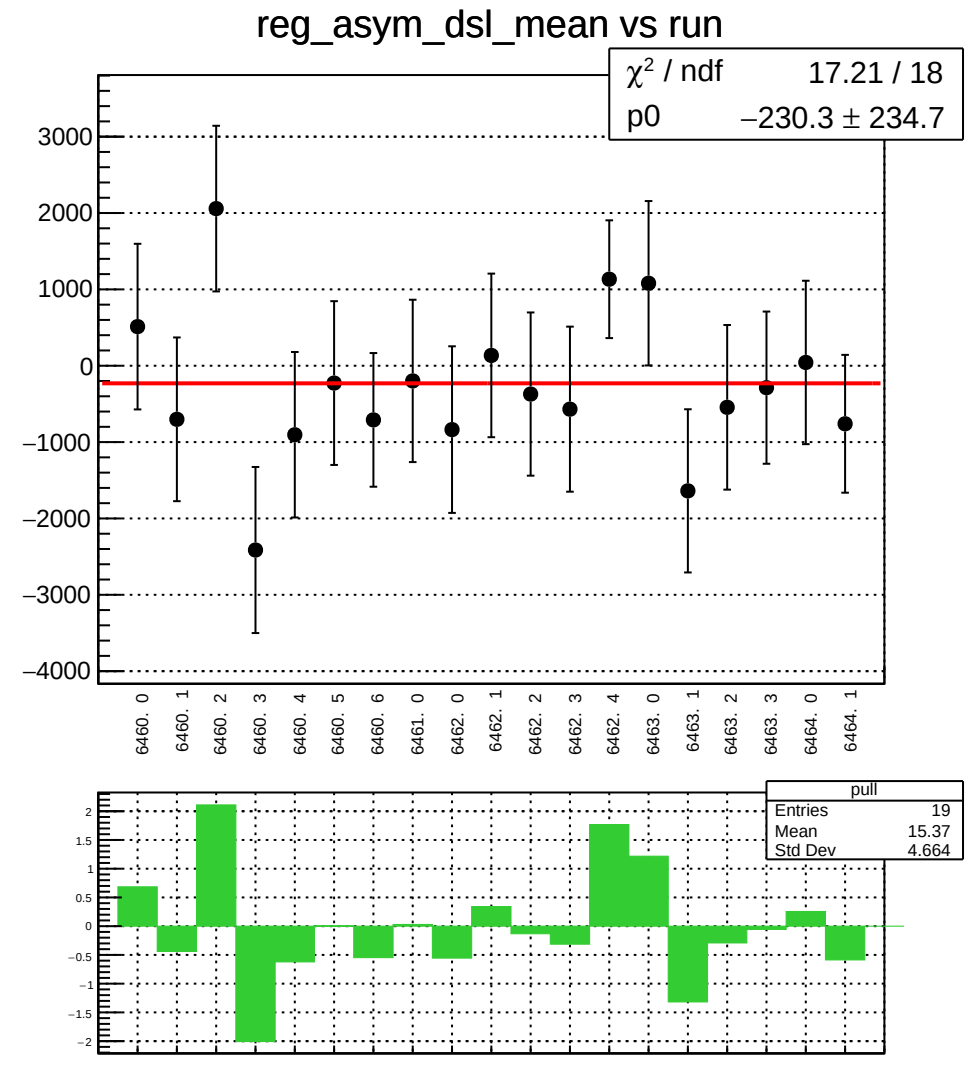

pull1D
Entries 19
Mean 0.01757
Std Dev 0.9062
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

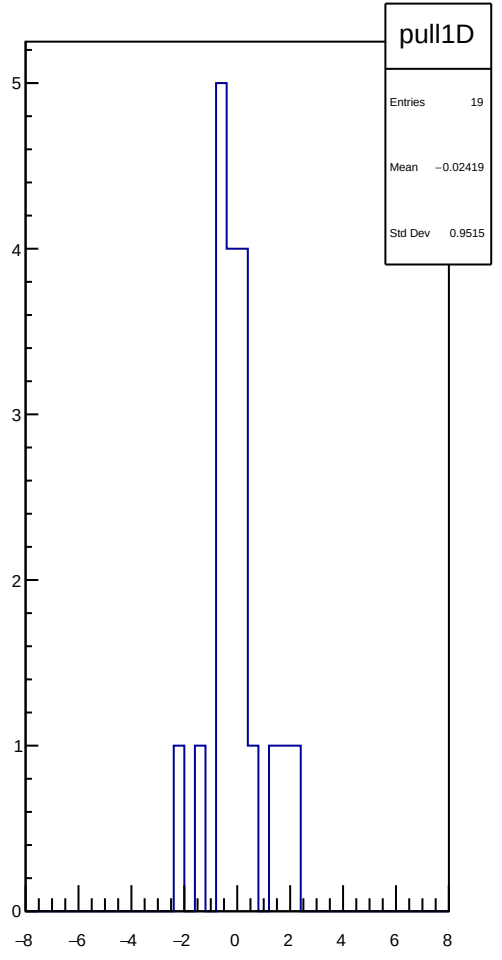

asym_usr_correction_rms vs run
χ² / ndf 1275 / 18
p0 1518 ± 2.472
1700
1650
1600
1550
1500
1450
1400
1350
1300
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

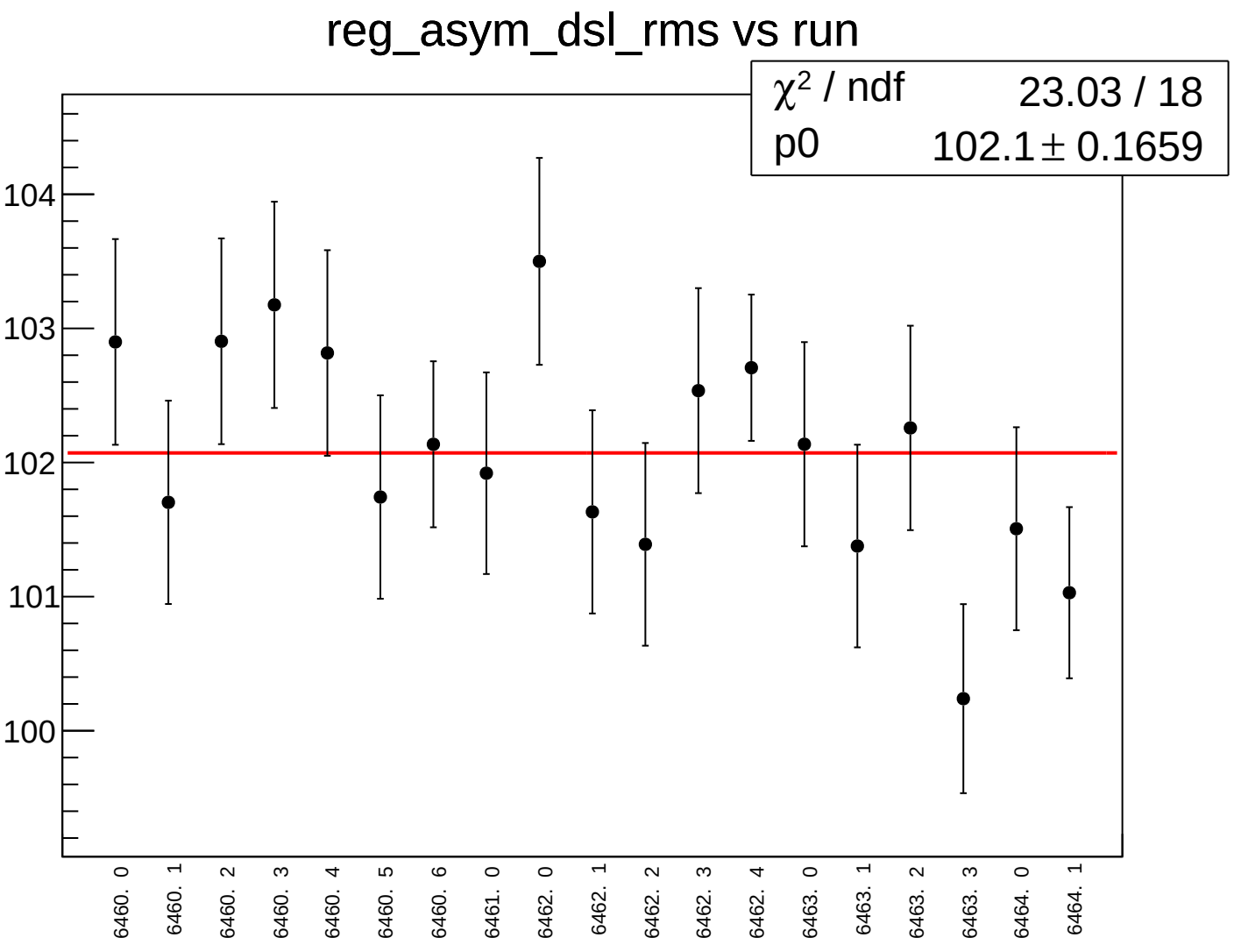

asym_usr_mean vs run
χ² / ndf 13.68 / 18
p0 −4651 ± 4397
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 18.02
Std Dev 9.933
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

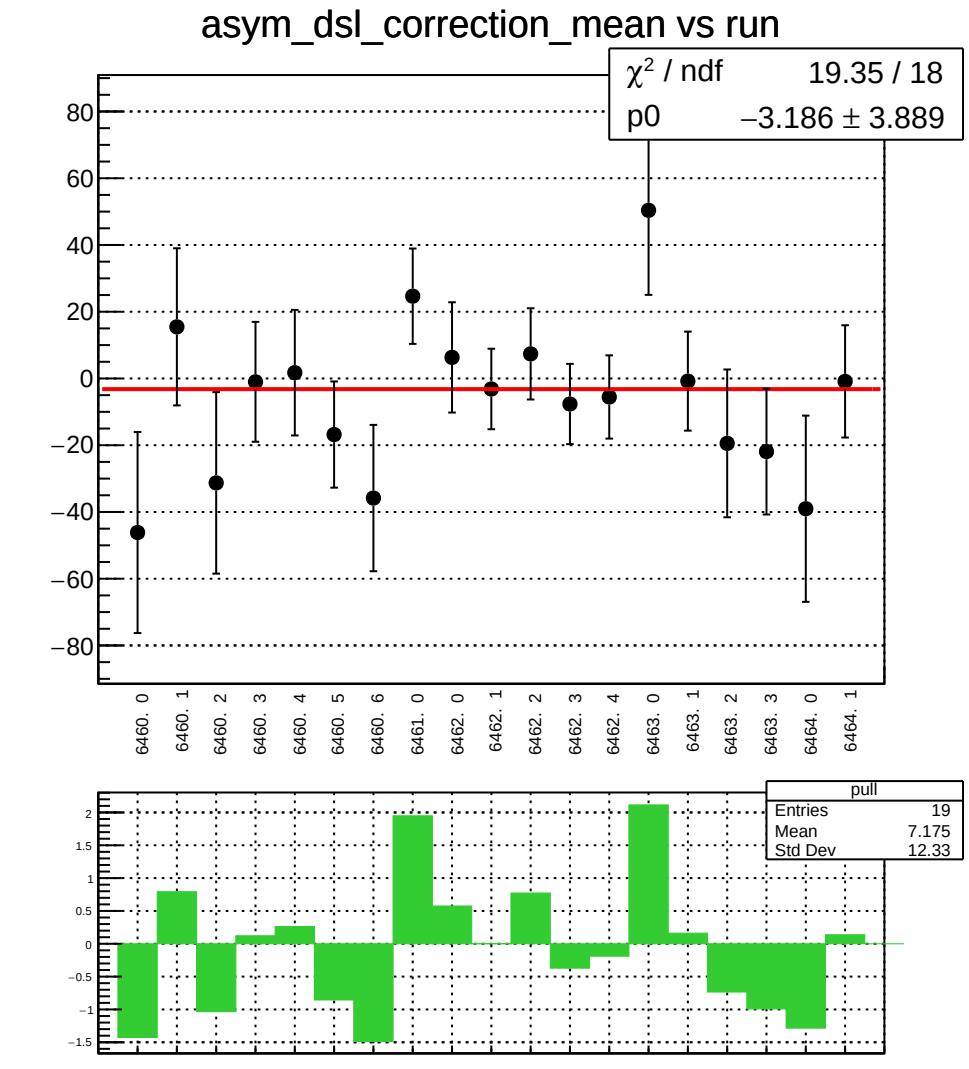

pull1D
Entries 19
Mean −0.03154
Std Dev 0.8481
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

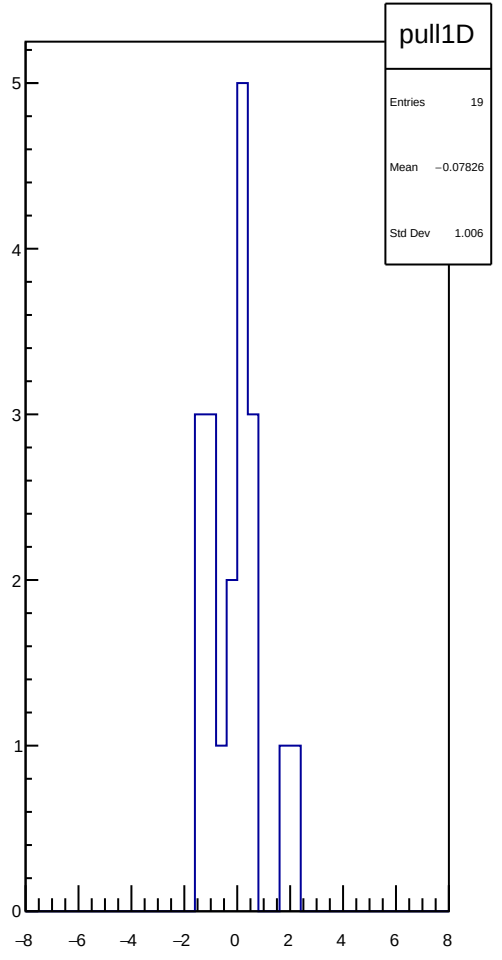

asym_usr_rms vs run
χ² / ndf 500.3 / 18
p0 1911 ± 3.109
2050
2000
1950
1900
1850
1800
1750
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

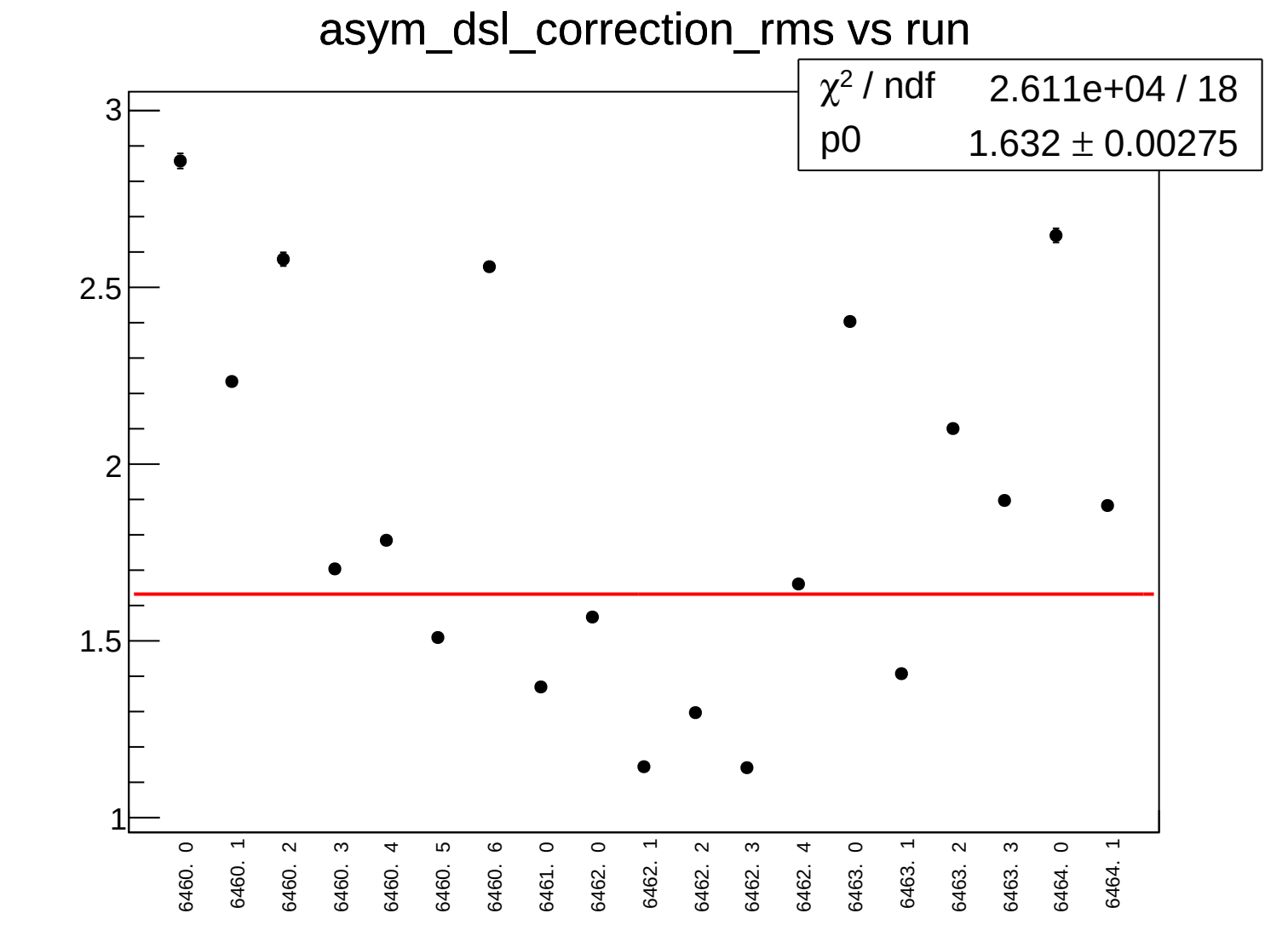

reg_asym_dsl_mean vs run
χ² / ndf 17.21 / 18
p0 −230.3 ± 234.7
3000
2000
1000
0
−1000
−2000
−3000
−4000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 15.37
Std Dev 4.664
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

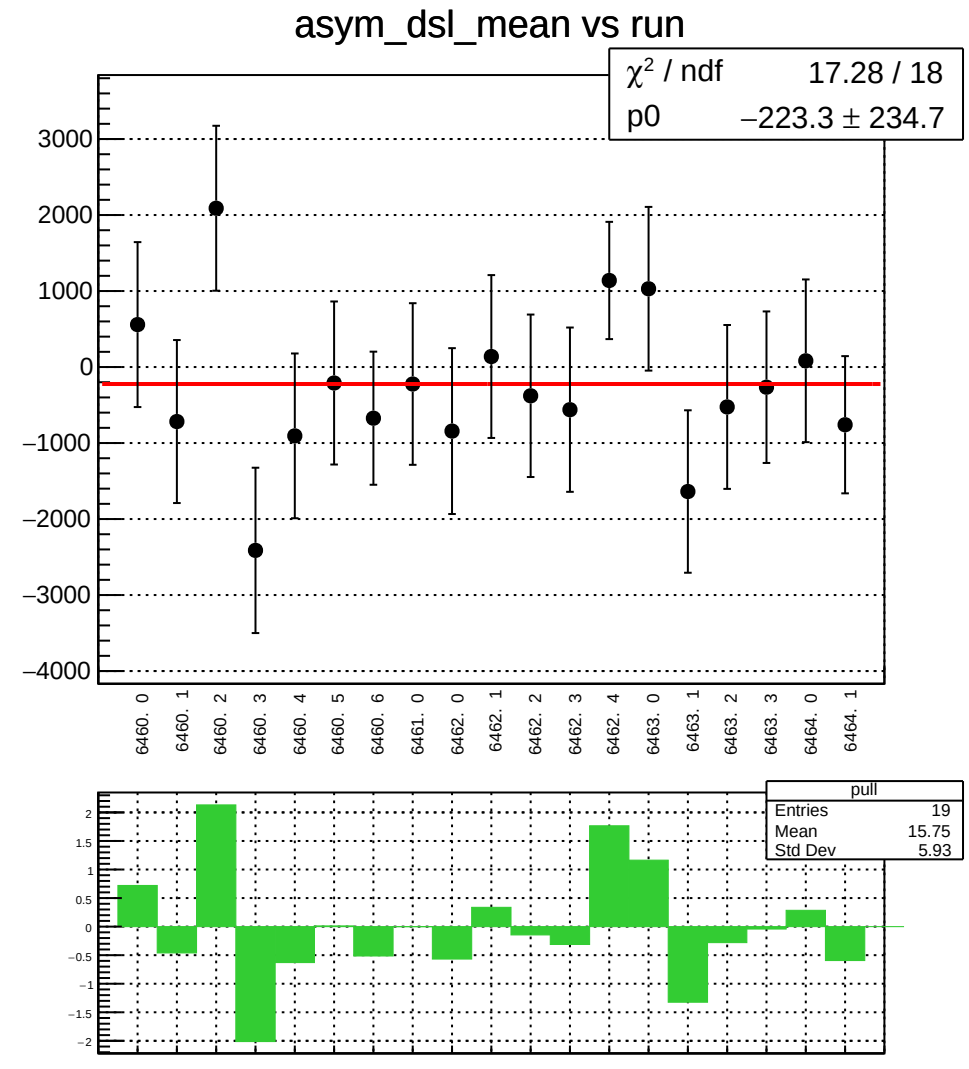

pull1D
Entries 19
Mean −0.02419
Std Dev 0.9515
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

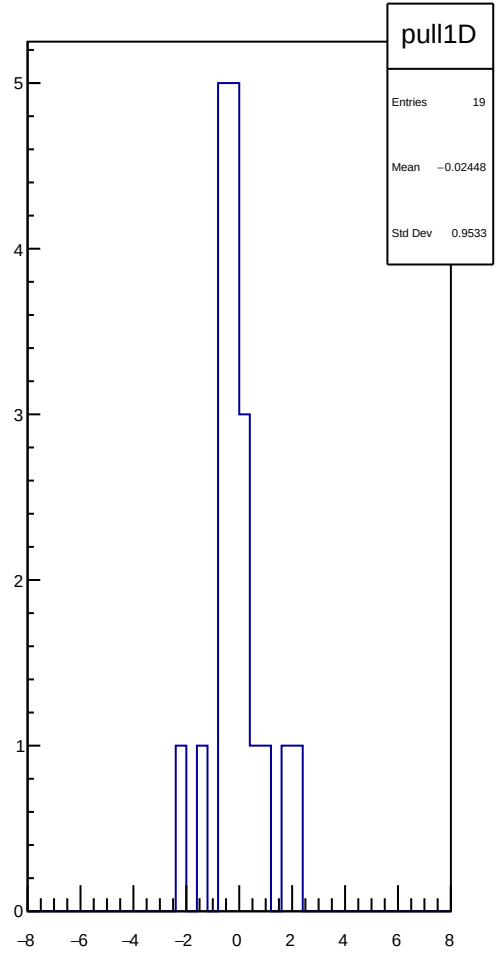

reg_asym_dsl_rms vs run
χ² / ndf 23.03 / 18
p0 102.1 ± 0.1659
104
103
102
101
100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

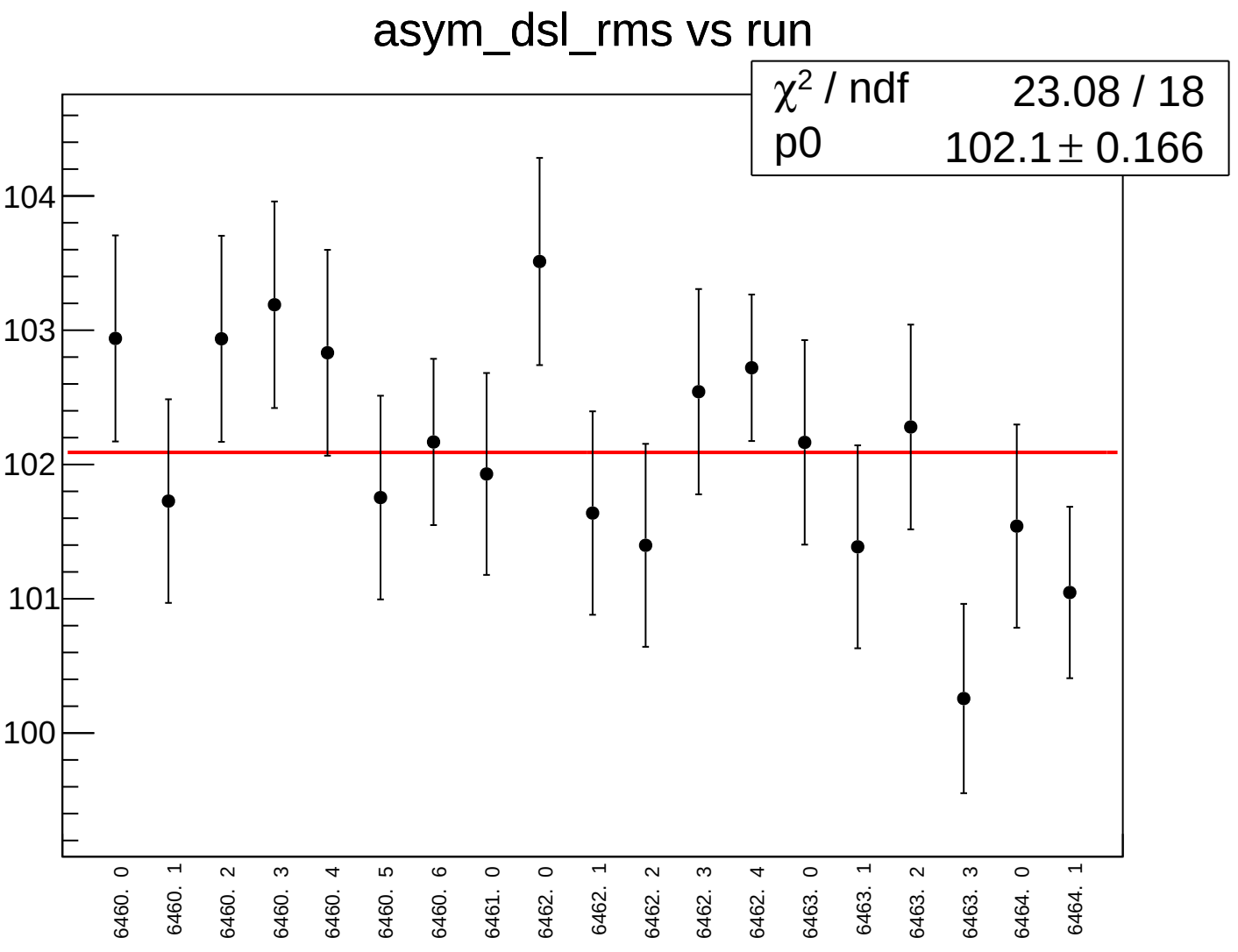

asym_dsl_correction_mean vs run
χ² / ndf 19.35 / 18
p0 −3.186 ± 3.889
80
60
40
20
0
−20
−40
−60
−80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 7.175
Std Dev 12.33
2
1.5
1
0.5
0
−0.5
−1
−1.5

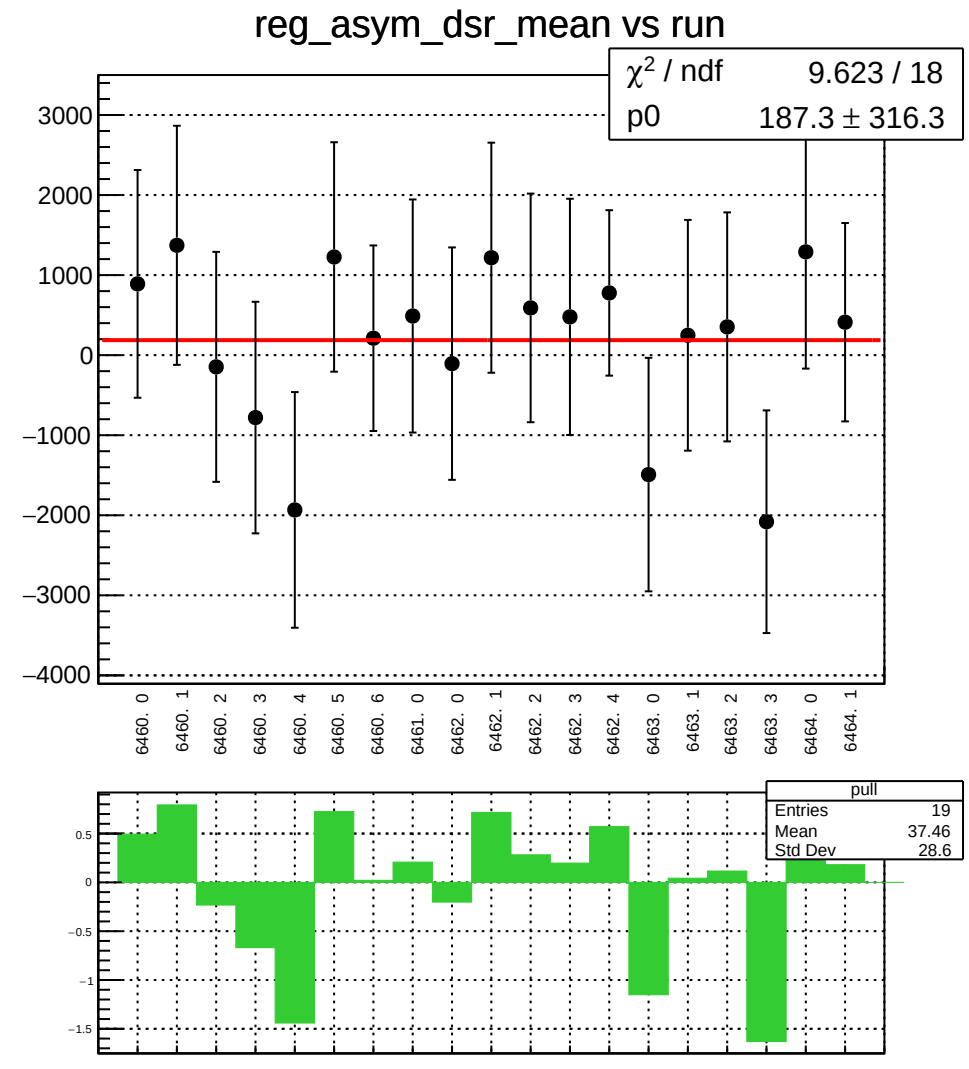

pull1D
Entries 19
Mean −0.07826
Std Dev 1.006
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

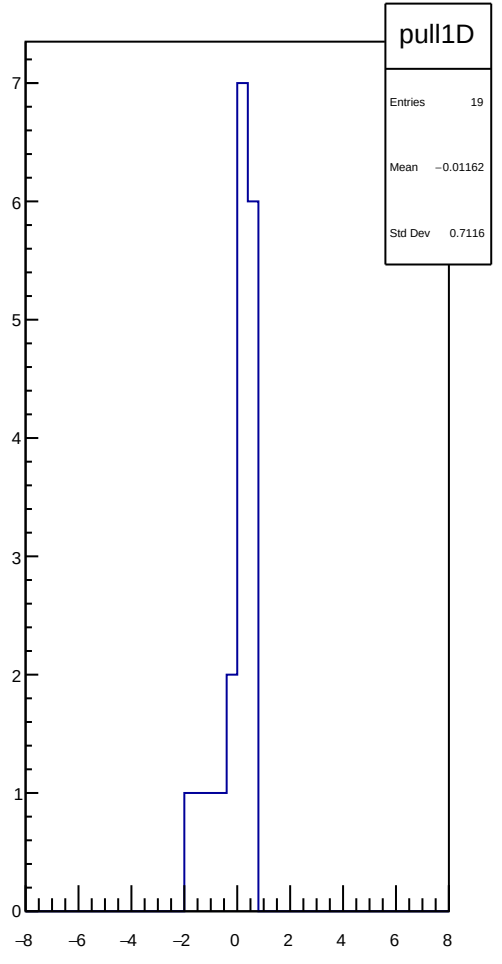

asym_dsl_correction_rms vs run
χ² / ndf 2.611e+04 / 18
p0 1.632 ± 0.00275
3
2.5
2
1.5
1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

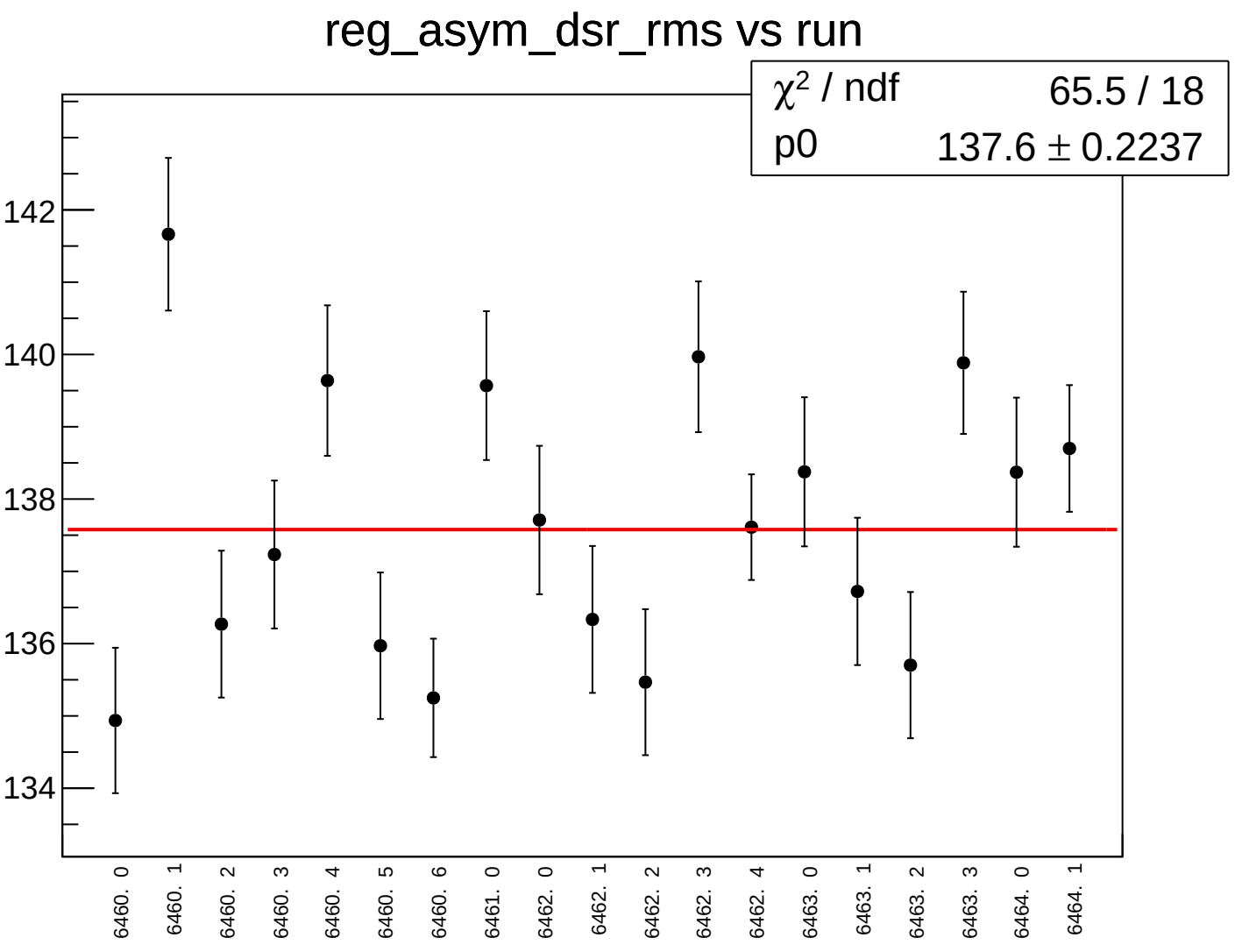

asym_dsl_mean vs run
χ² / ndf 17.28 / 18
p0 −223.3 ± 234.7
3000
2000
1000
0
−1000
−2000
−3000
−4000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 15.75
Std Dev 5.93
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

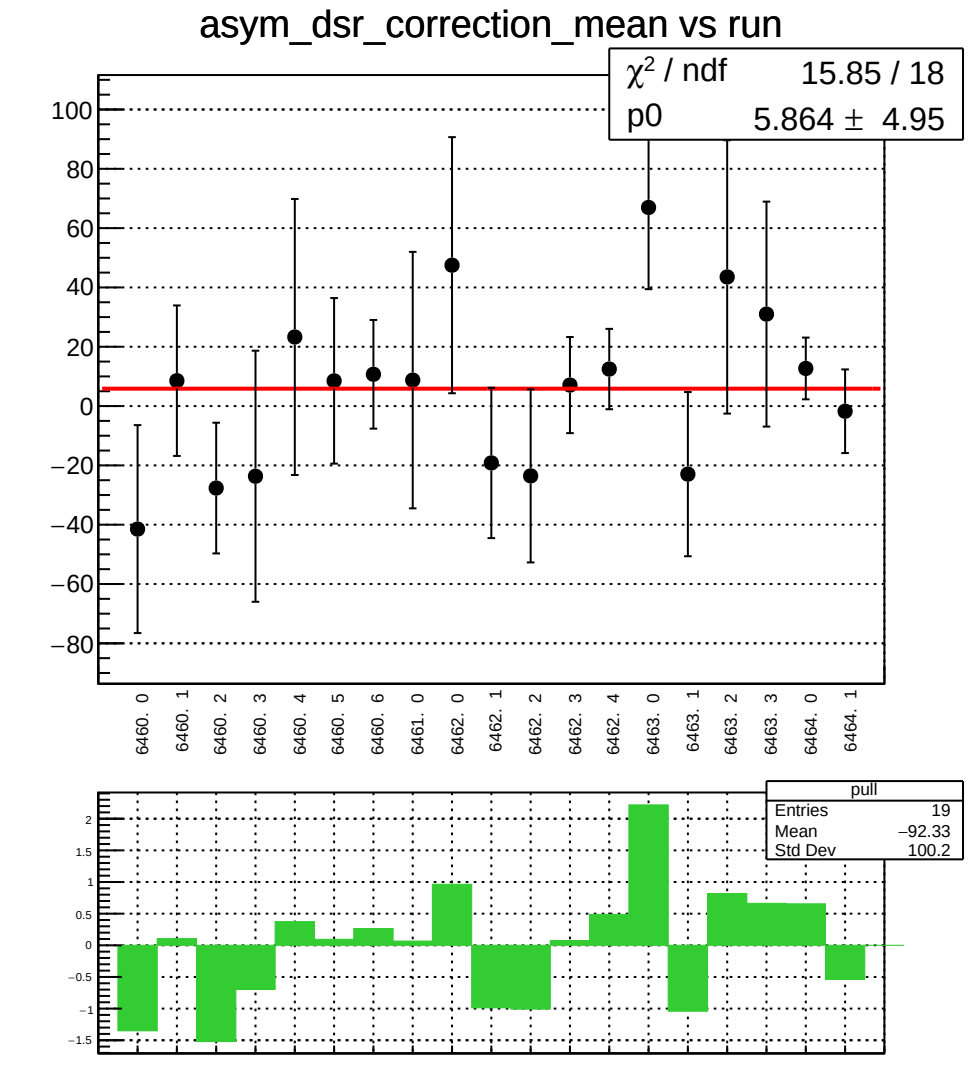

pull1D
Entries 19
Mean −0.02448
Std Dev 0.9533
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

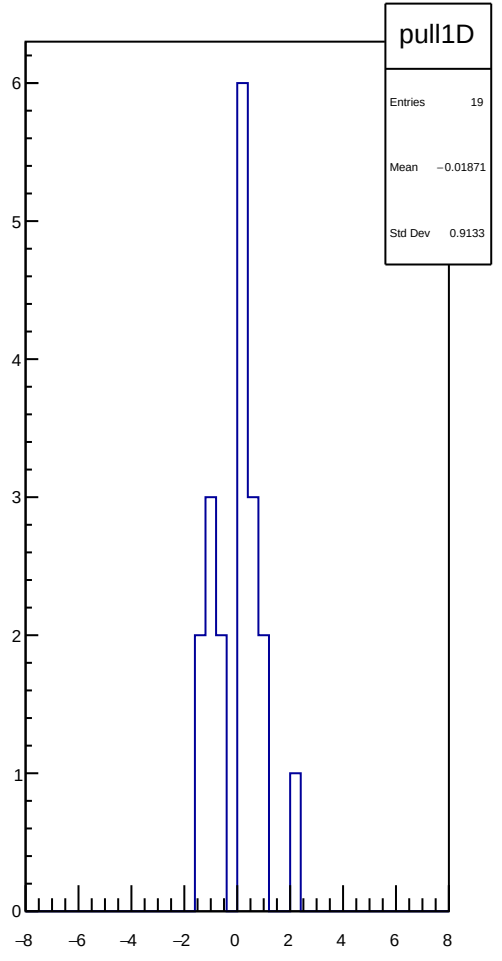

asym_dsl_rms vs run
χ² / ndf 23.08 / 18
p0 102.1 ± 0.166
104
103
102
101
100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

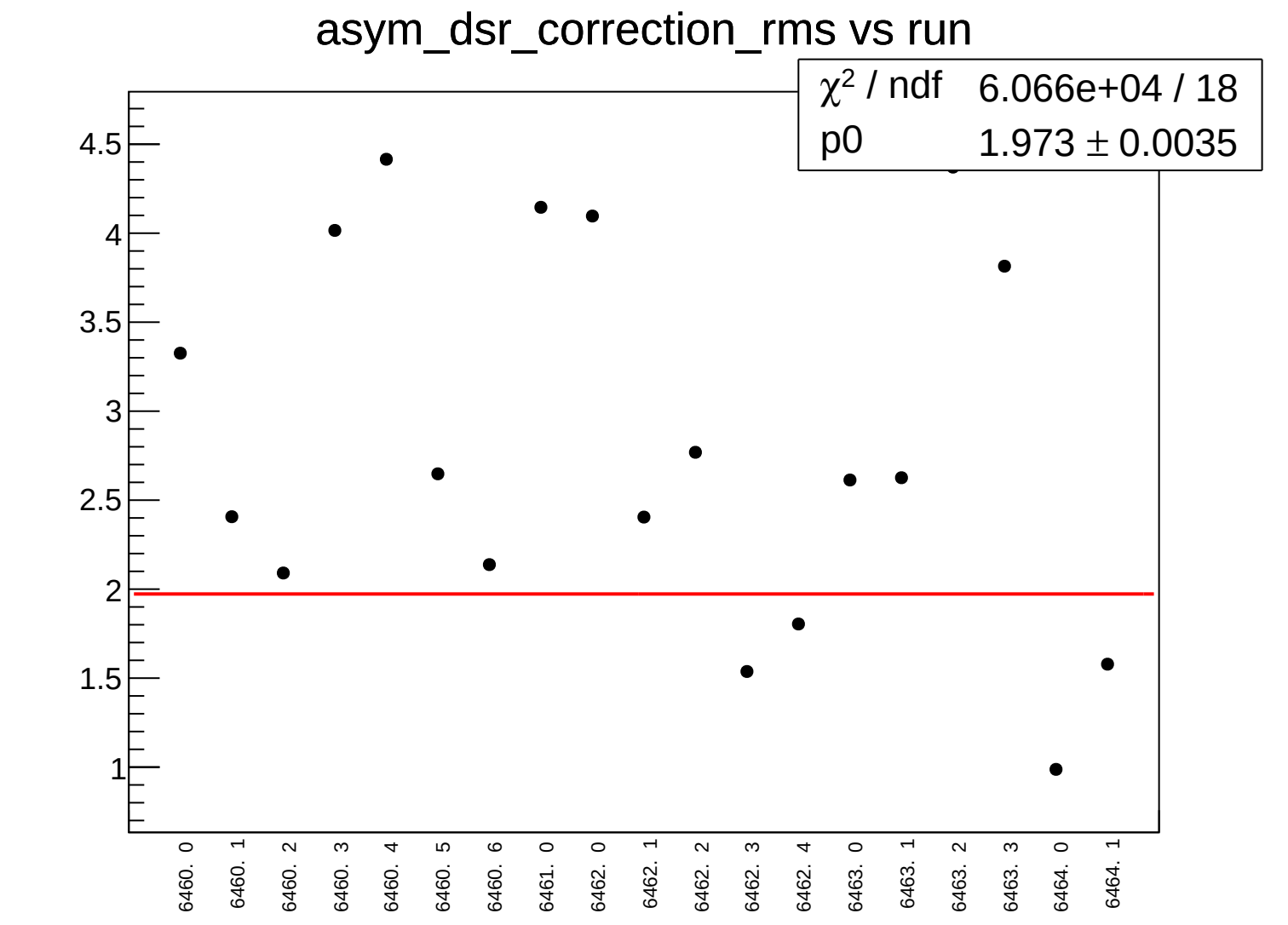

reg_asym_dsr_mean vs run
χ² / ndf 9.623 / 18
p0 187.3 ± 316.3
3000
2000
1000
0
−1000
−2000
−3000
−4000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 37.46
Std Dev 28.6
0.5
0
−0.5
−1
−1.5

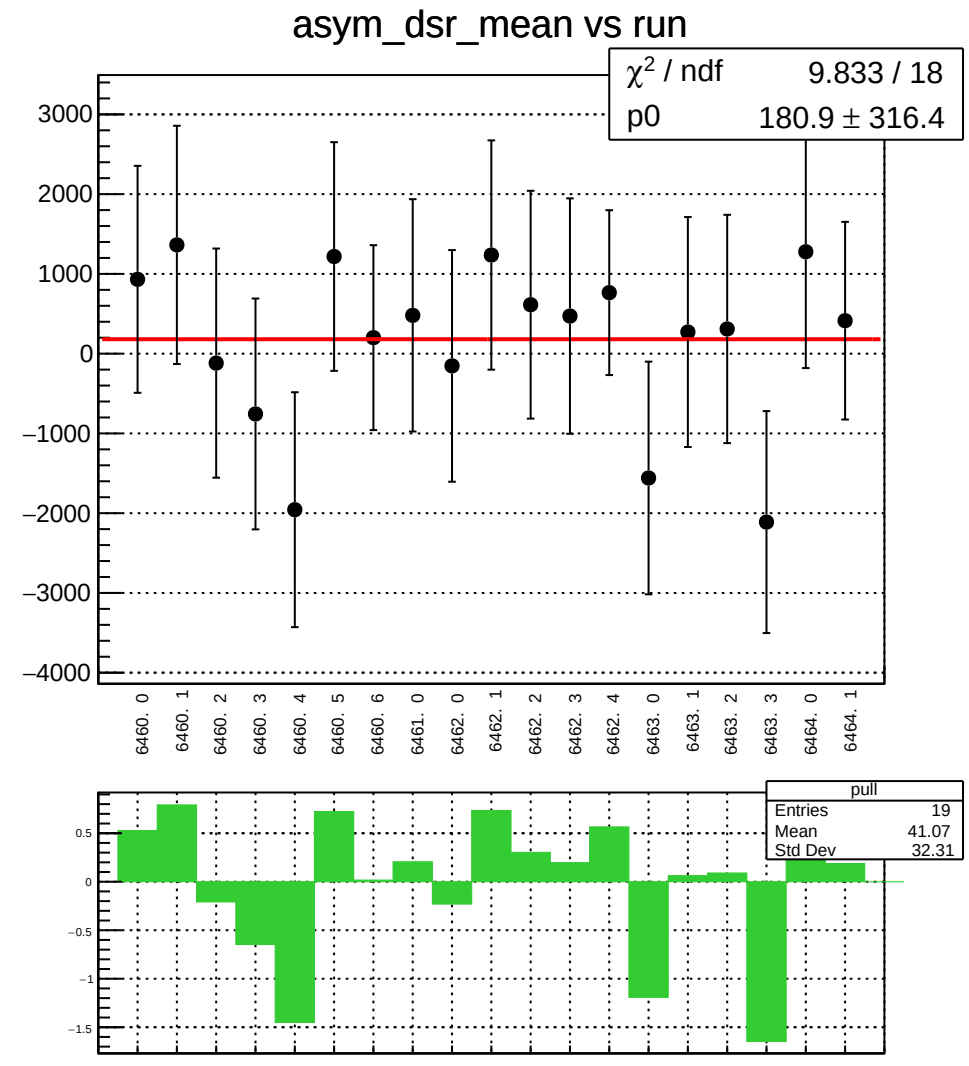

pull1D
Entries 19
Mean −0.01162
Std Dev 0.7116
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

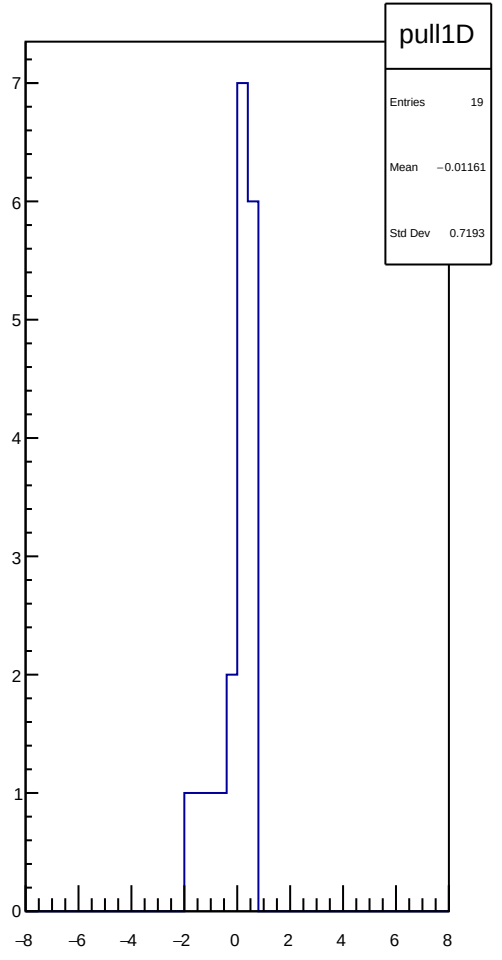

reg_asym_dsr_rms vs run
χ² / ndf 65.5 / 18
p0 137.6 ± 0.2237
142
140
138
136
134
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

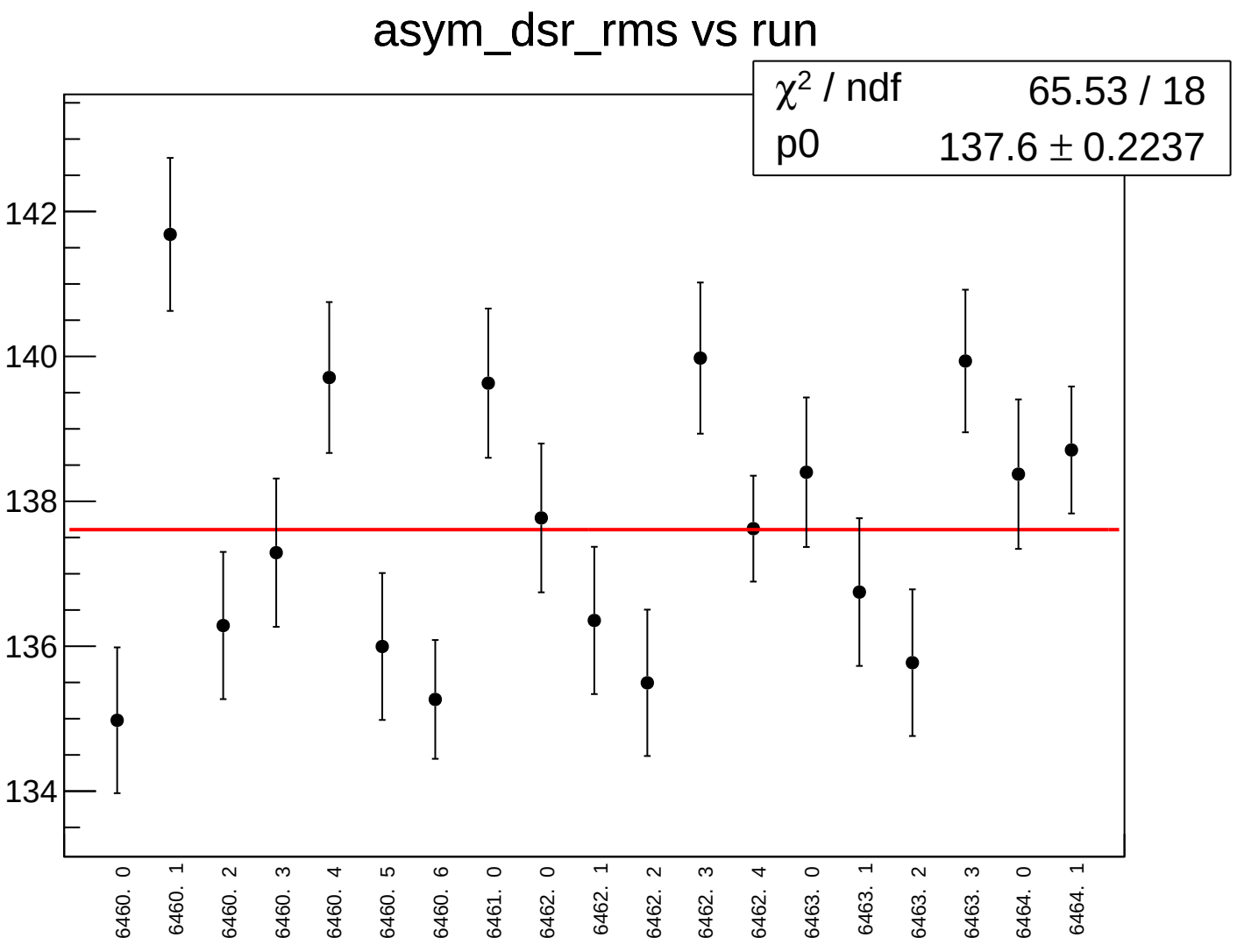

asym_dsr_correction_mean vs run
χ² / ndf 15.85 / 18
p0 5.864 ± 4.95
100
80
60
40
20
0
−20
−40
−60
−80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −92.33
Std Dev 100.2
2
1.5
1
0.5
0
−0.5
−1
−1.5

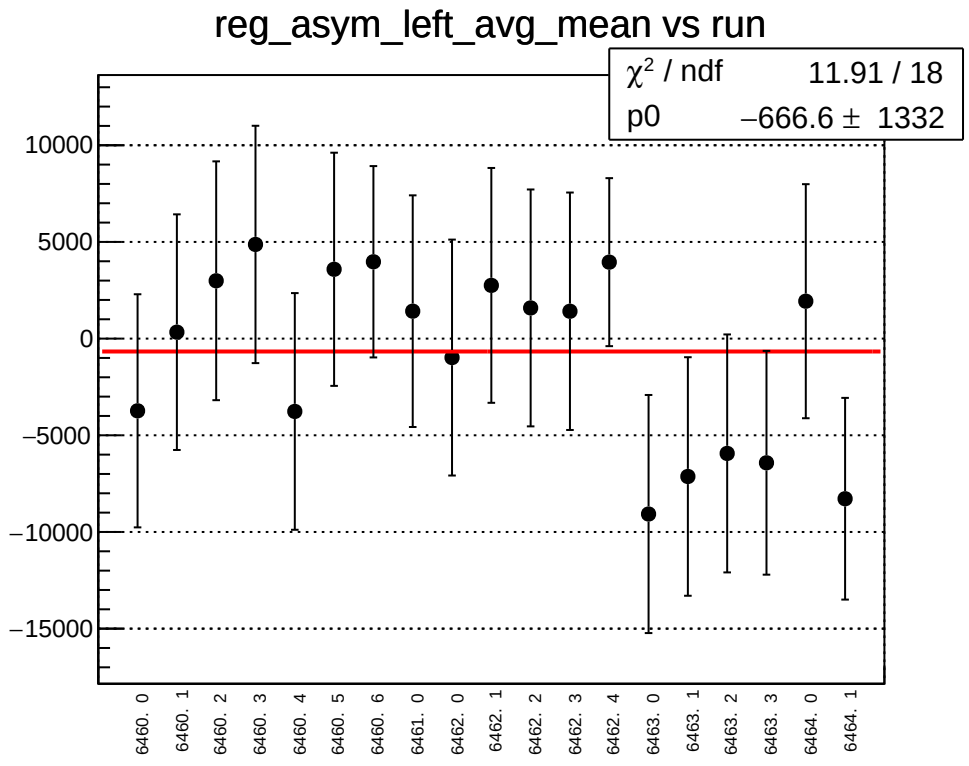

pull1D
Entries 19
Mean −0.01871
Std Dev 0.9133
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

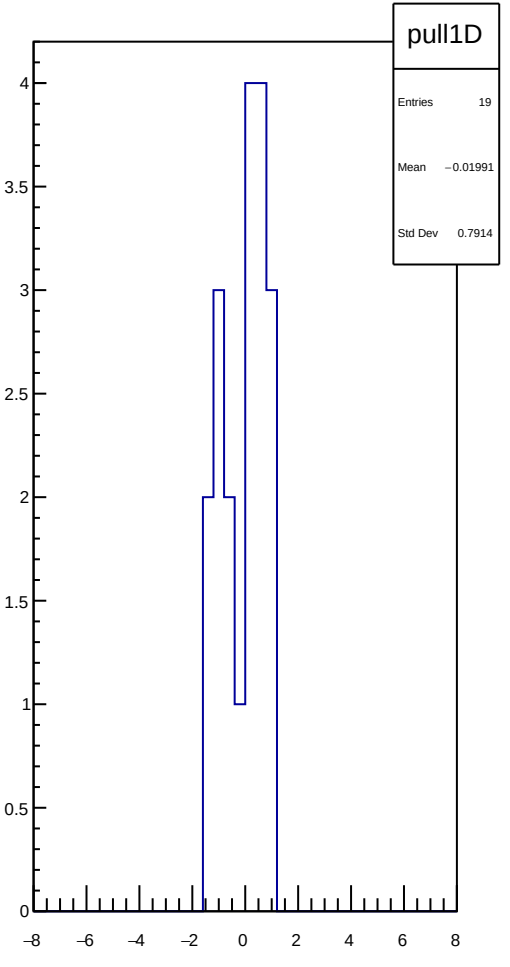

asym_dsr_correction_rms vs run
χ² / ndf 6.066e+04 / 18
p0 1.973 ± 0.0035
4.5
4
3.5
3
2.5
2
1.5
1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

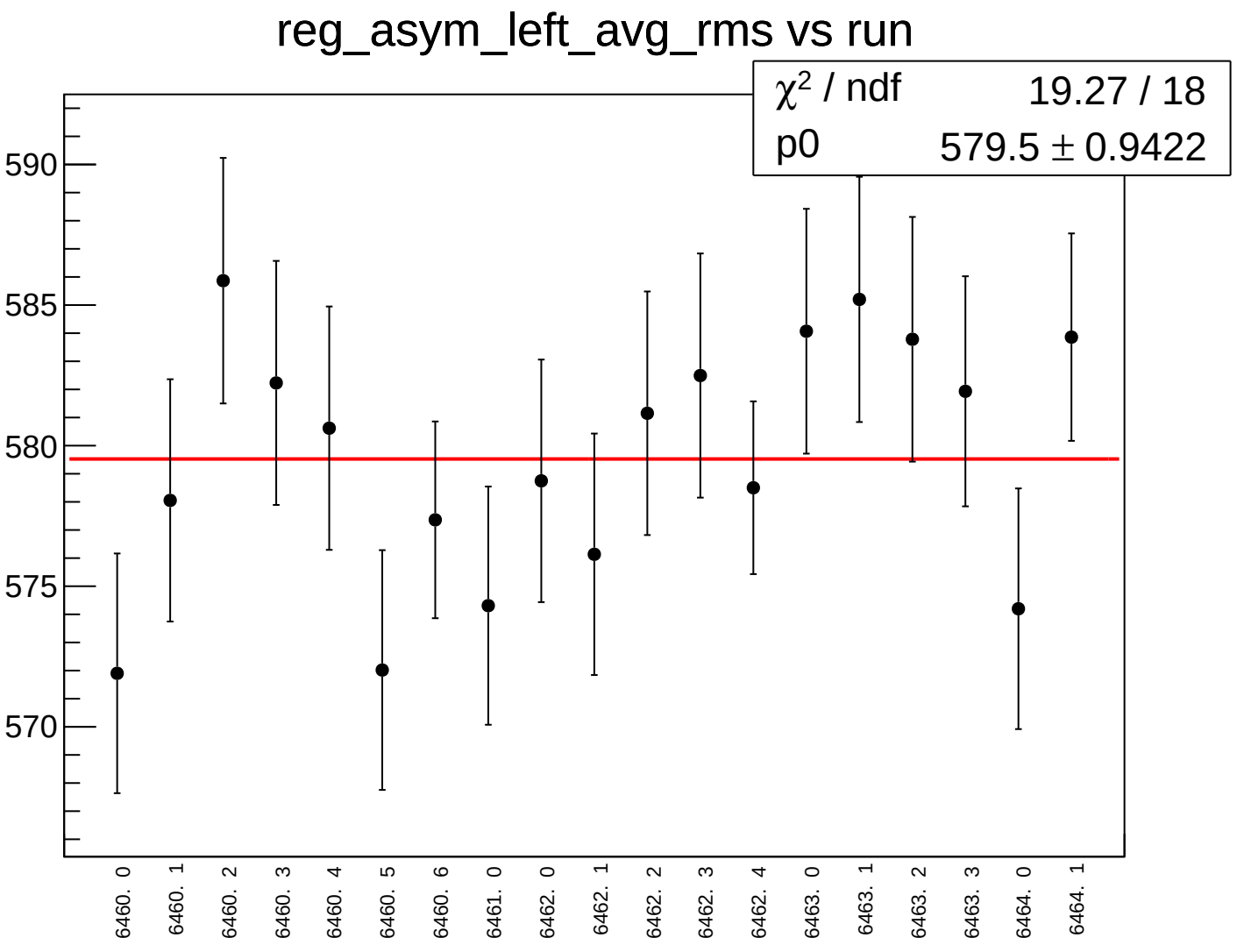

asym_dsr_mean vs run
χ² / ndf 9.833 / 18
p0 180.9 ± 316.4
3000
2000
1000
0
−1000
−2000
−3000
−4000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 41.07
Std Dev 32.31
0.5
0
−0.5
−1
−1.5

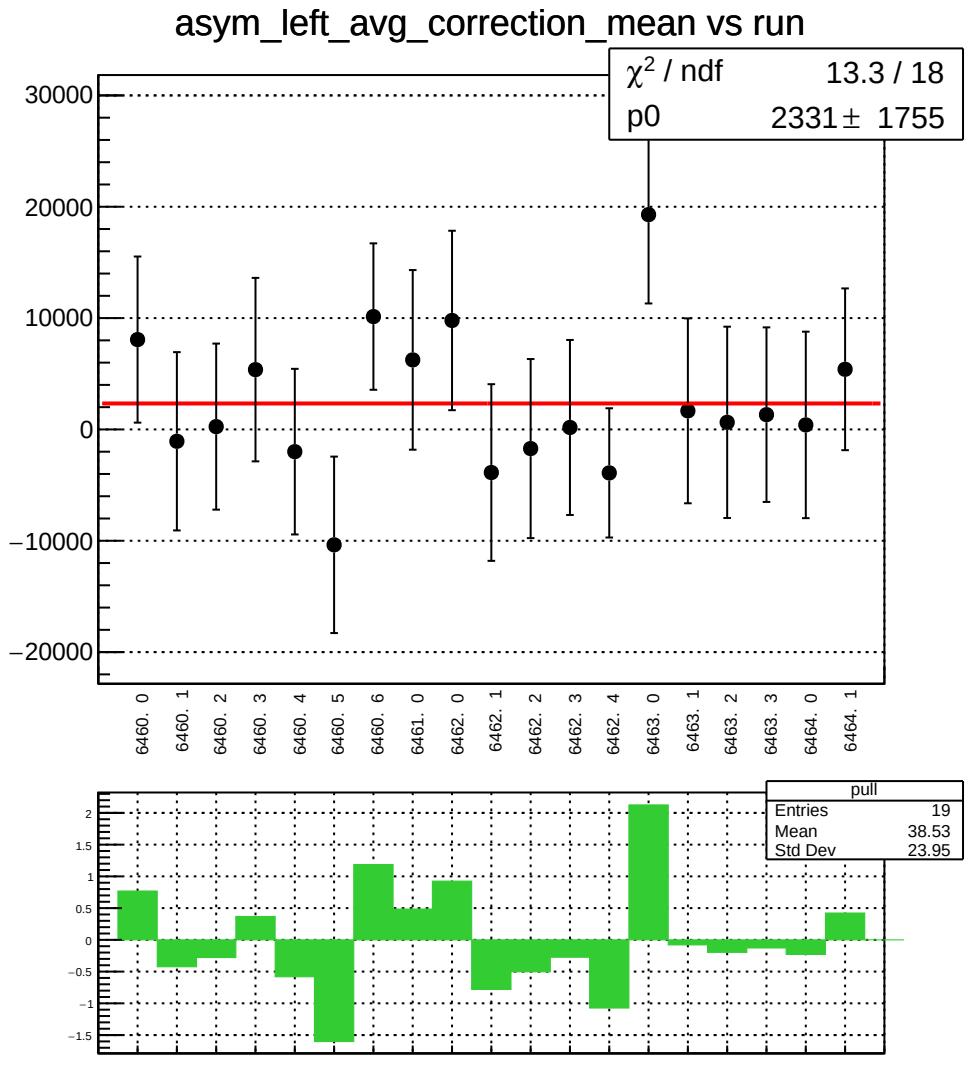

pull1D
Entries 19
Mean −0.01161
Std Dev 0.7193
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

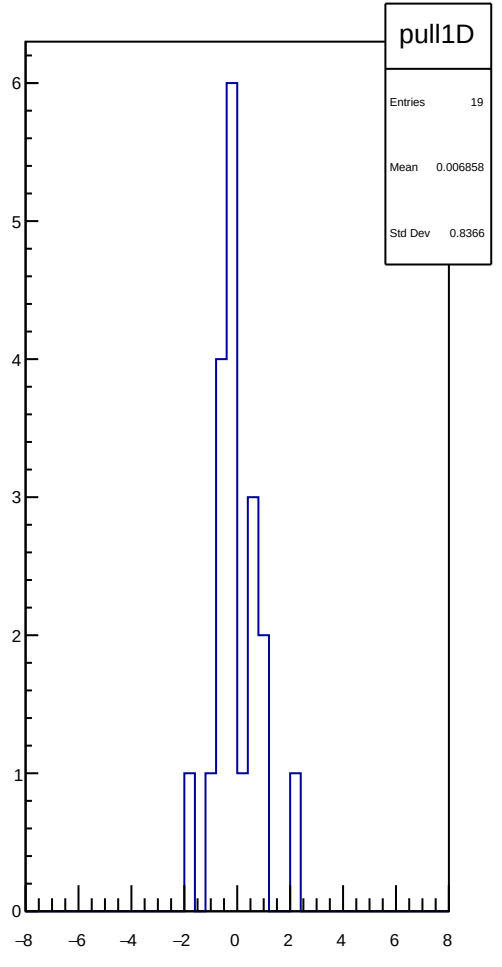

asym_dsr_rms vs run
χ² / ndf 65.53 / 18
p0 137.6 ± 0.2237
142
140
138
136
134
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

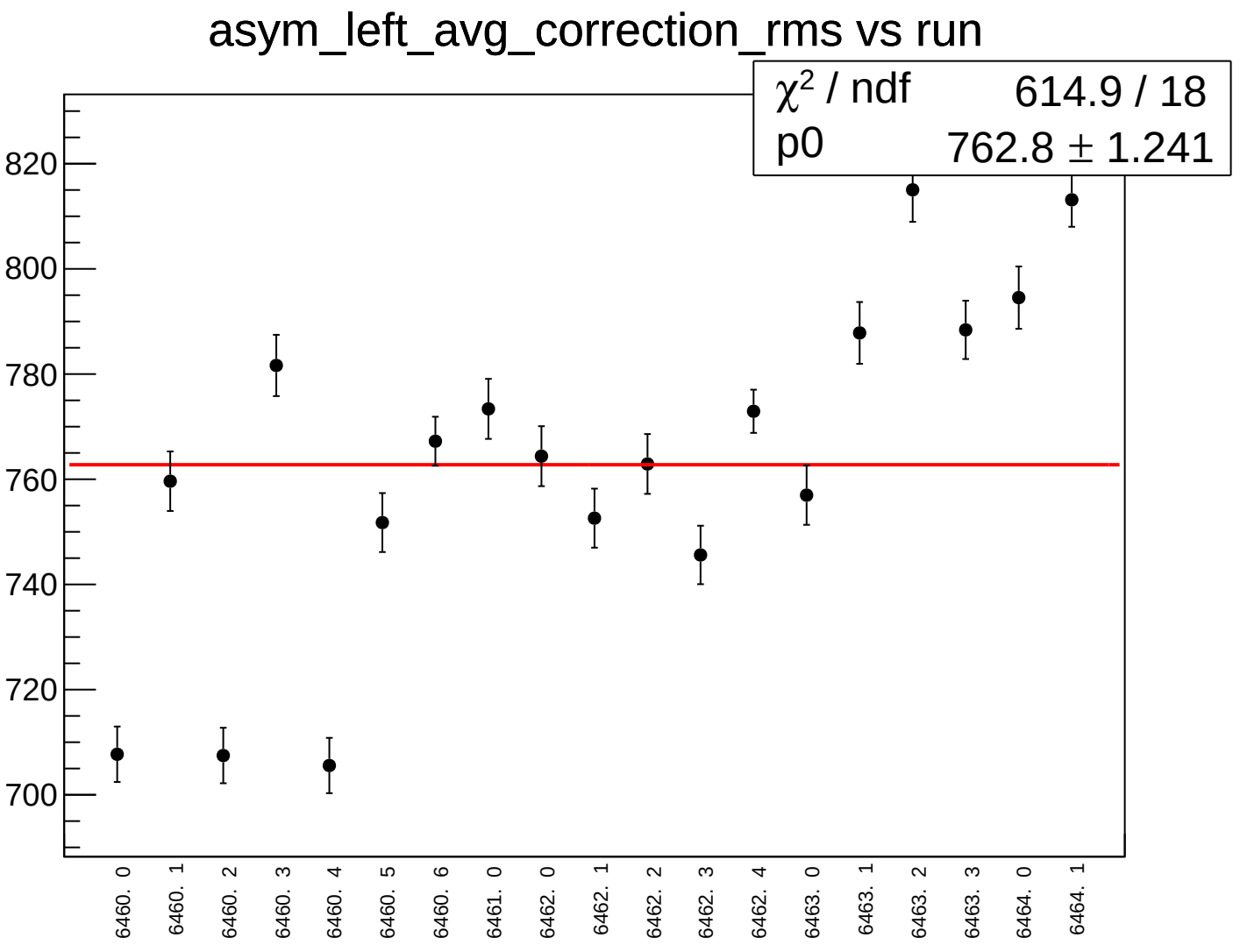

reg_asym_left_avg_mean vs run
χ² / ndf 11.91 / 18
p0 −666.6 ± 1332
10000
5000
0
−5000
−10000
−15000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 110.8
Std Dev 99.06
1
0.5
0
−0.5
−1
−1.5

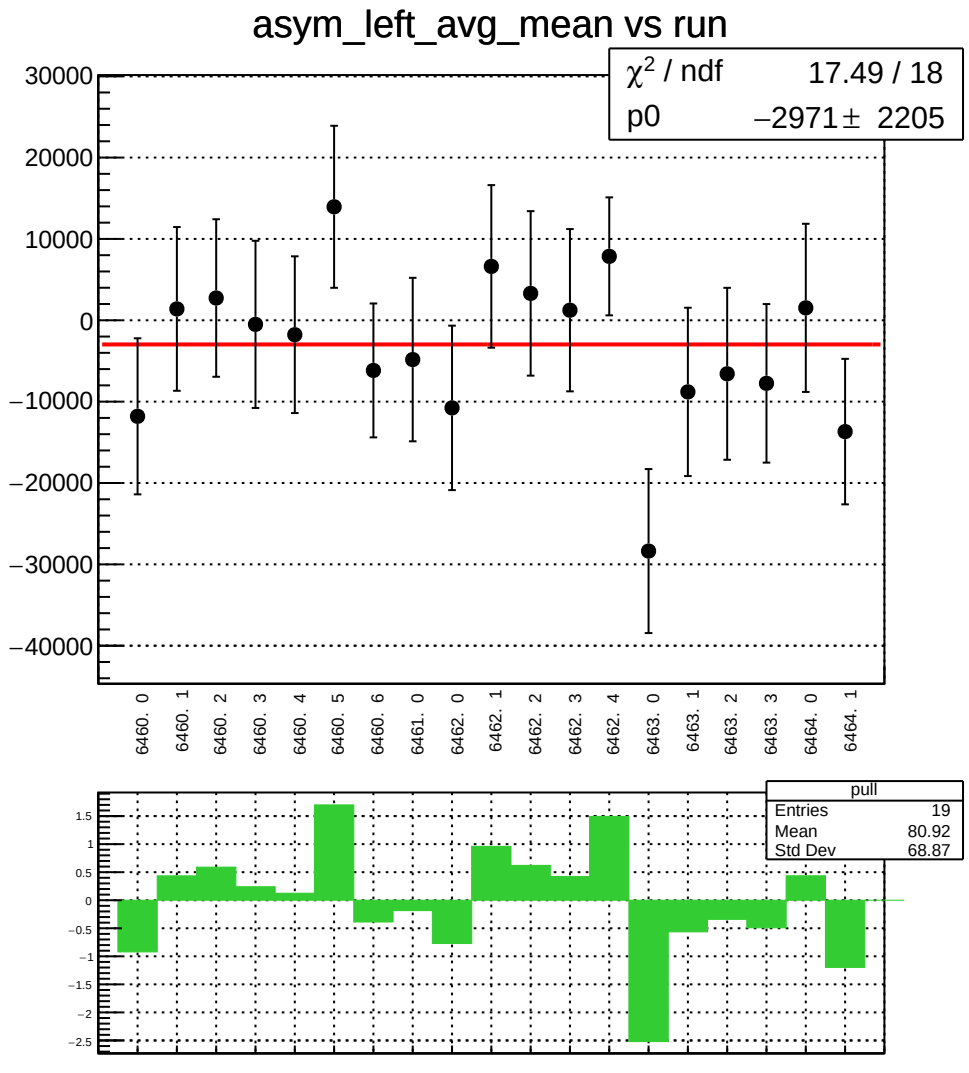

pull1D
Entries 19
Mean −0.01991
Std Dev 0.7914
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

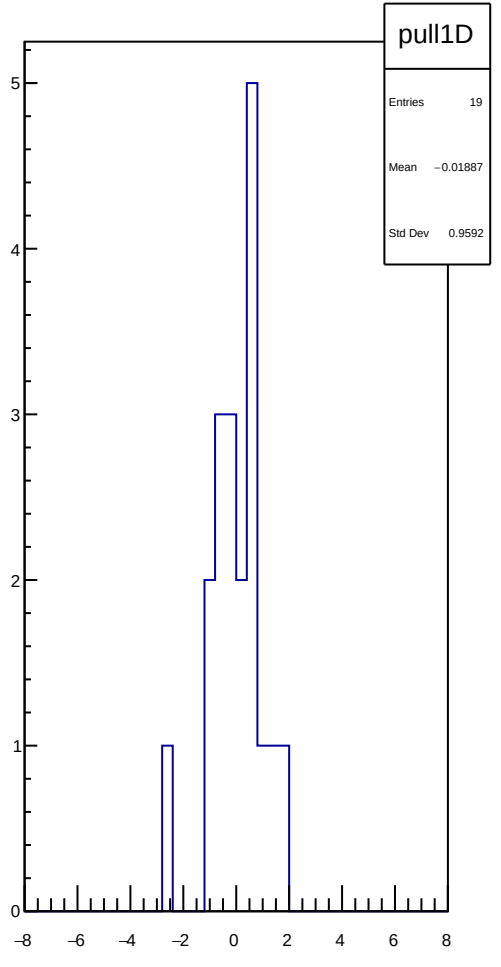

reg_asym_left_avg_rms vs run
χ² / ndf 19.27 / 18
p0 579.5 ± 0.9422
590
585
580
575
570
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

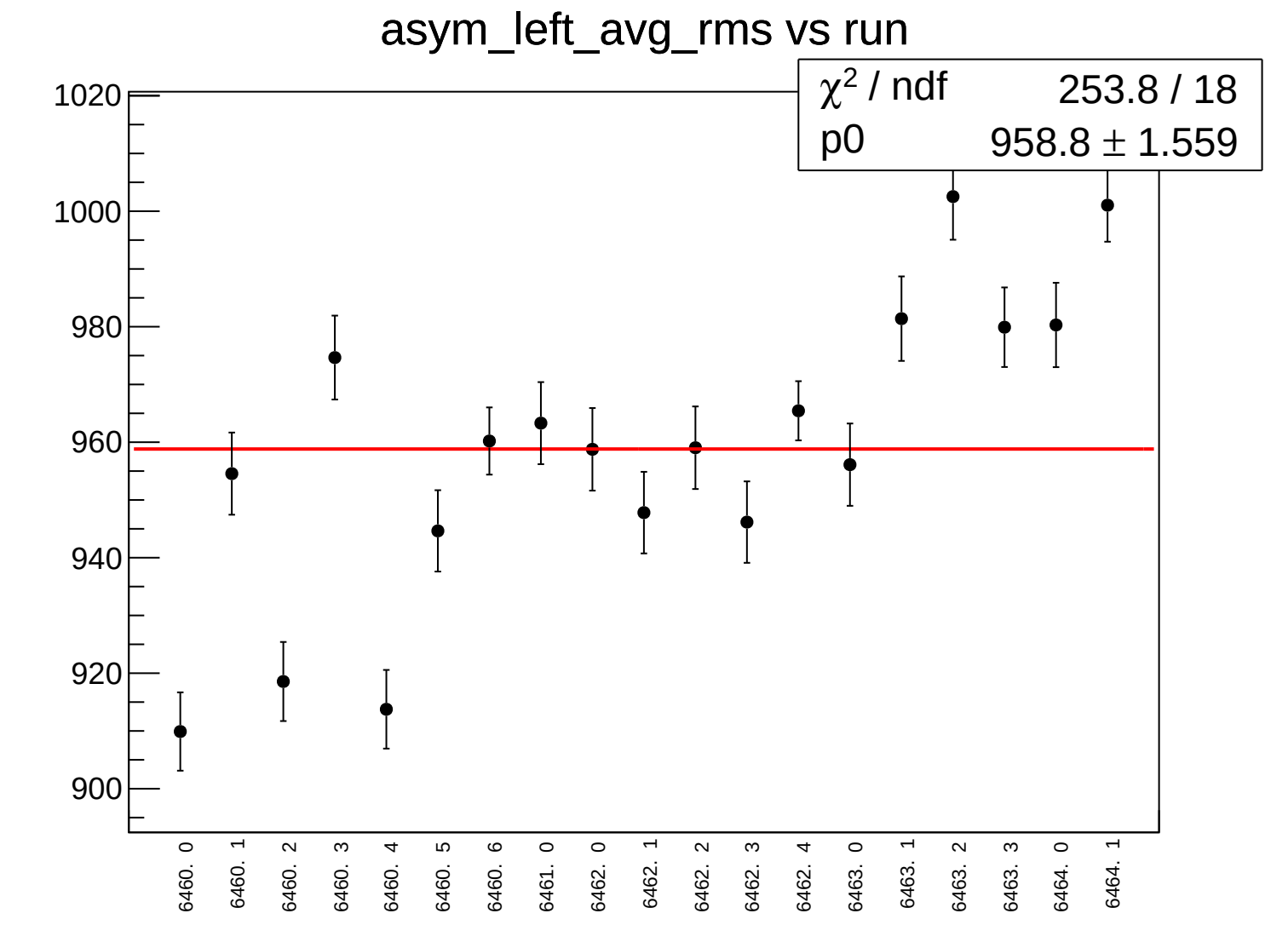

asym_left_avg_correction_mean vs run
χ² / ndf 13.3 / 18
p0 2331 ± 1755
30000
20000
10000
0
−10000
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 38.53
Std Dev 23.95
2
1.5
1
0.5
0
−0.5
−1
−1.5

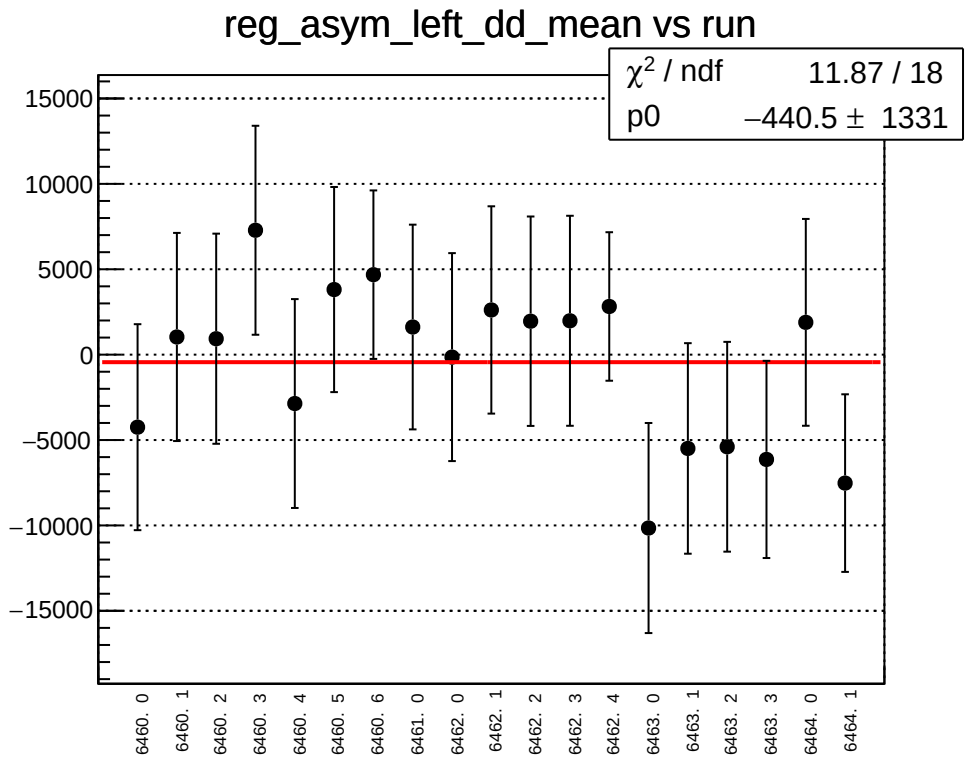

pull1D
Entries 19
Mean 0.006858
Std Dev 0.8366
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

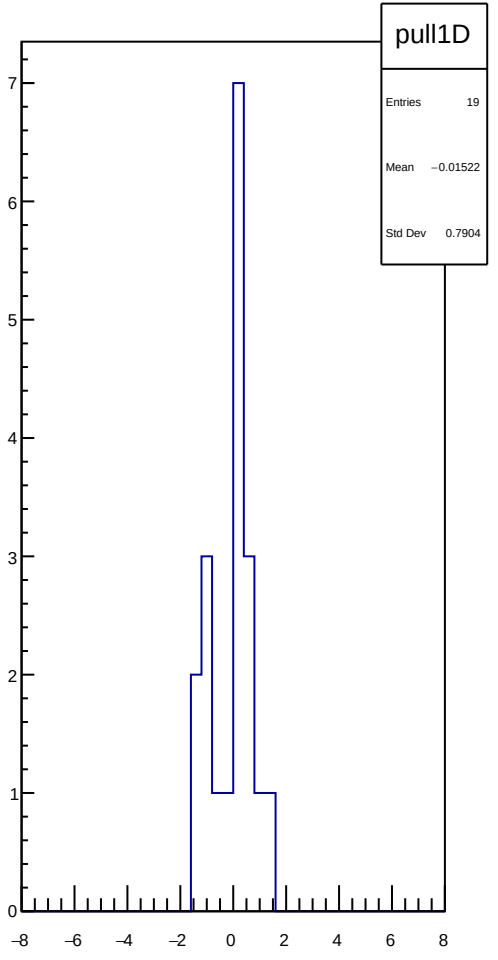

asym_left_avg_correction_rms vs run
χ² / ndf 614.9 / 18
p0 762.8 ± 1.241
820
800
780
760
740
720
700
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

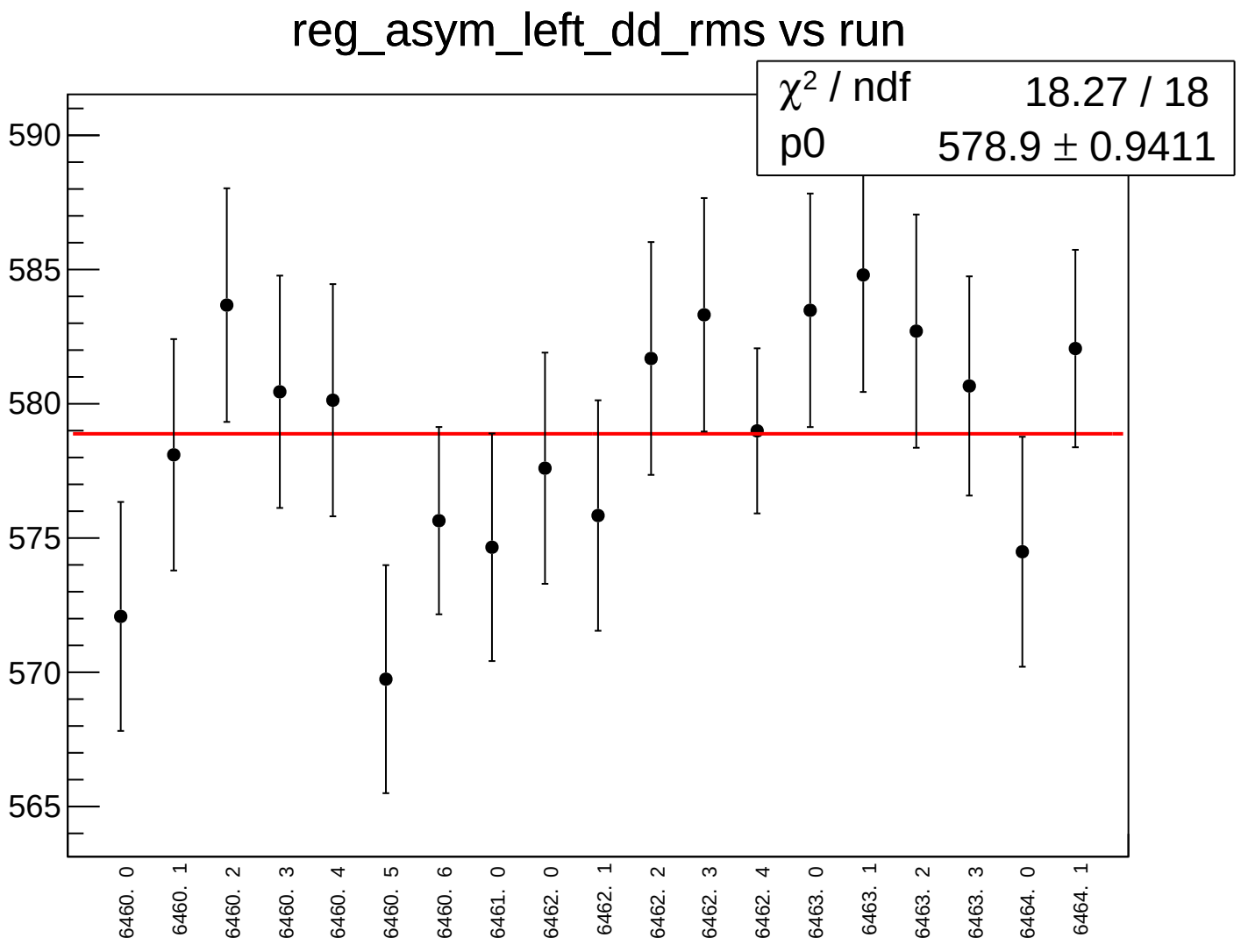

asym_left_avg_mean vs run
χ² / ndf 17.49 / 18
p0 −2971 ± 2205
30000
20000
10000
0
−10000
−20000
−30000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 80.92
Std Dev 68.87
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

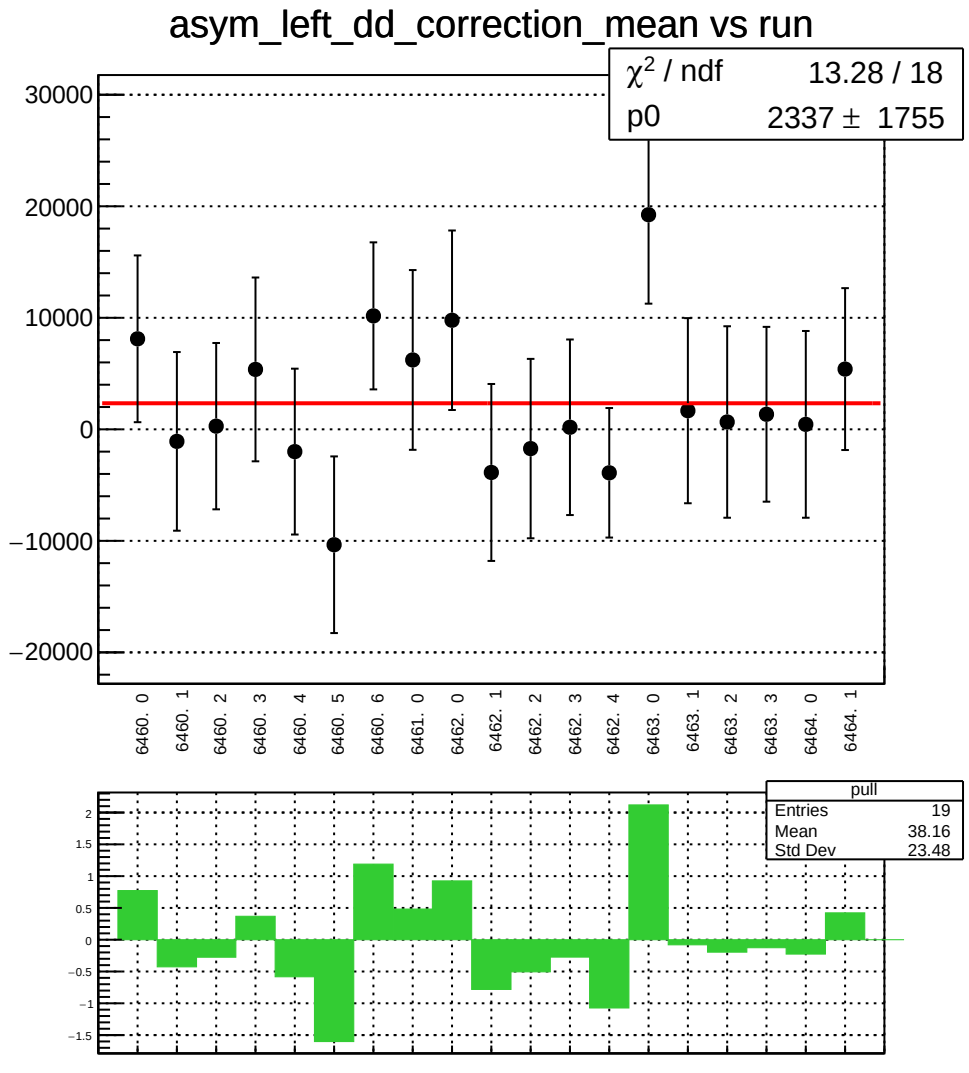

pull1D
Entries 19
Mean −0.01887
Std Dev 0.9592
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

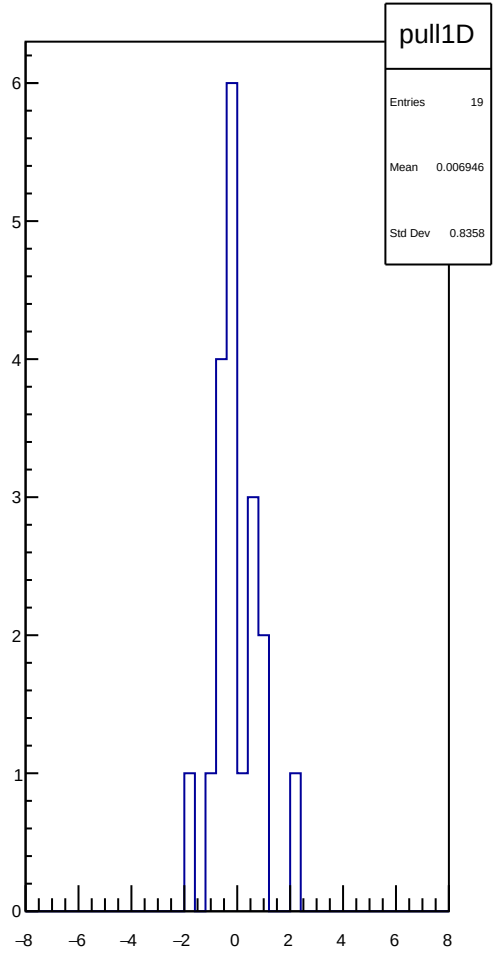

asym_left_avg_rms vs run
χ² / ndf 253.8 / 18
p0 958.8 ± 1.559
1020
1000
980
960
940
920
900
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

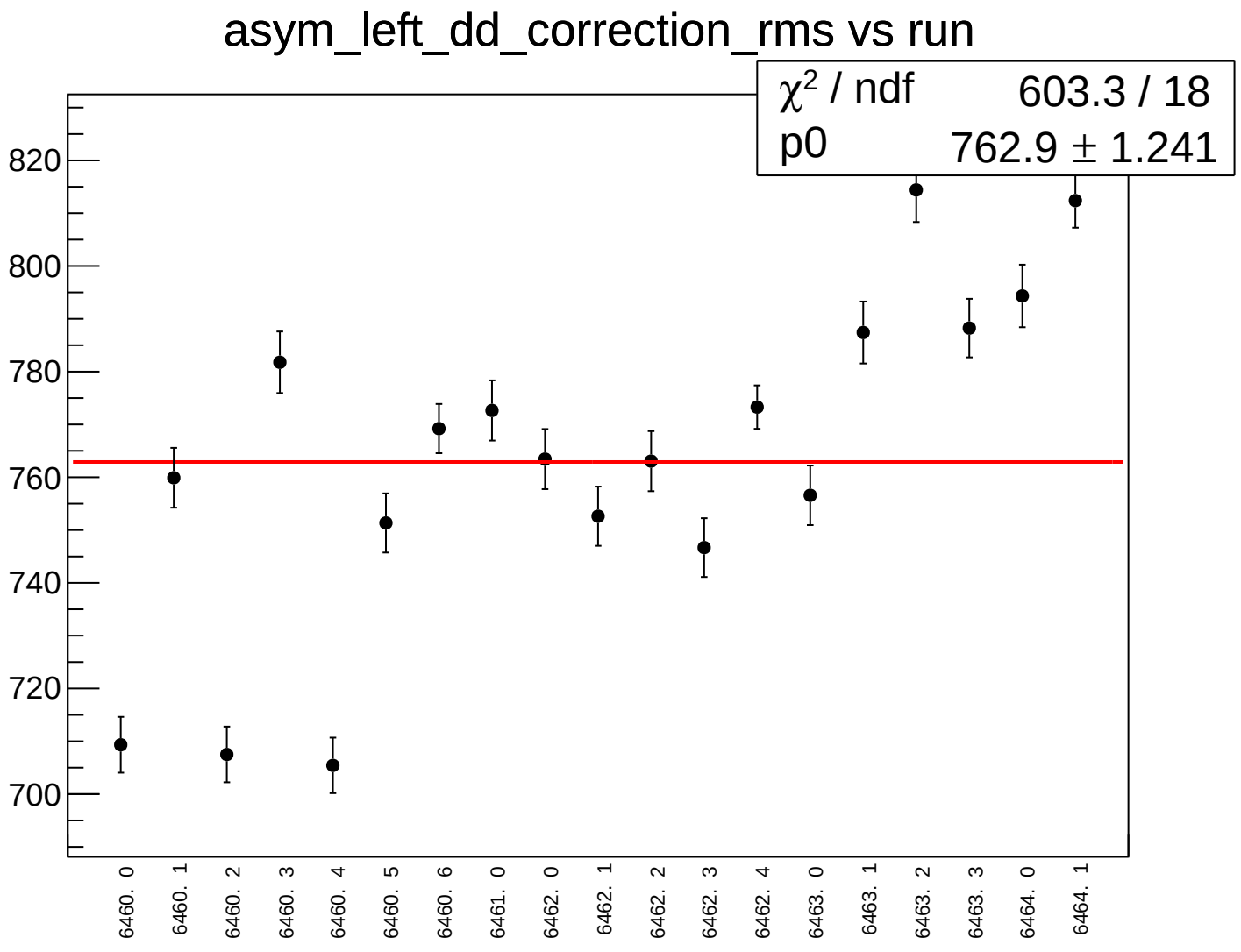

reg_asym_left_dd_mean vs run
χ² / ndf 11.87 / 18
p0 −440.5 ± 1331
15000
10000
5000
0
−5000
−10000
−15000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 140.9
Std Dev 129.2
1
0.5
0
−0.5
−1
−1.5

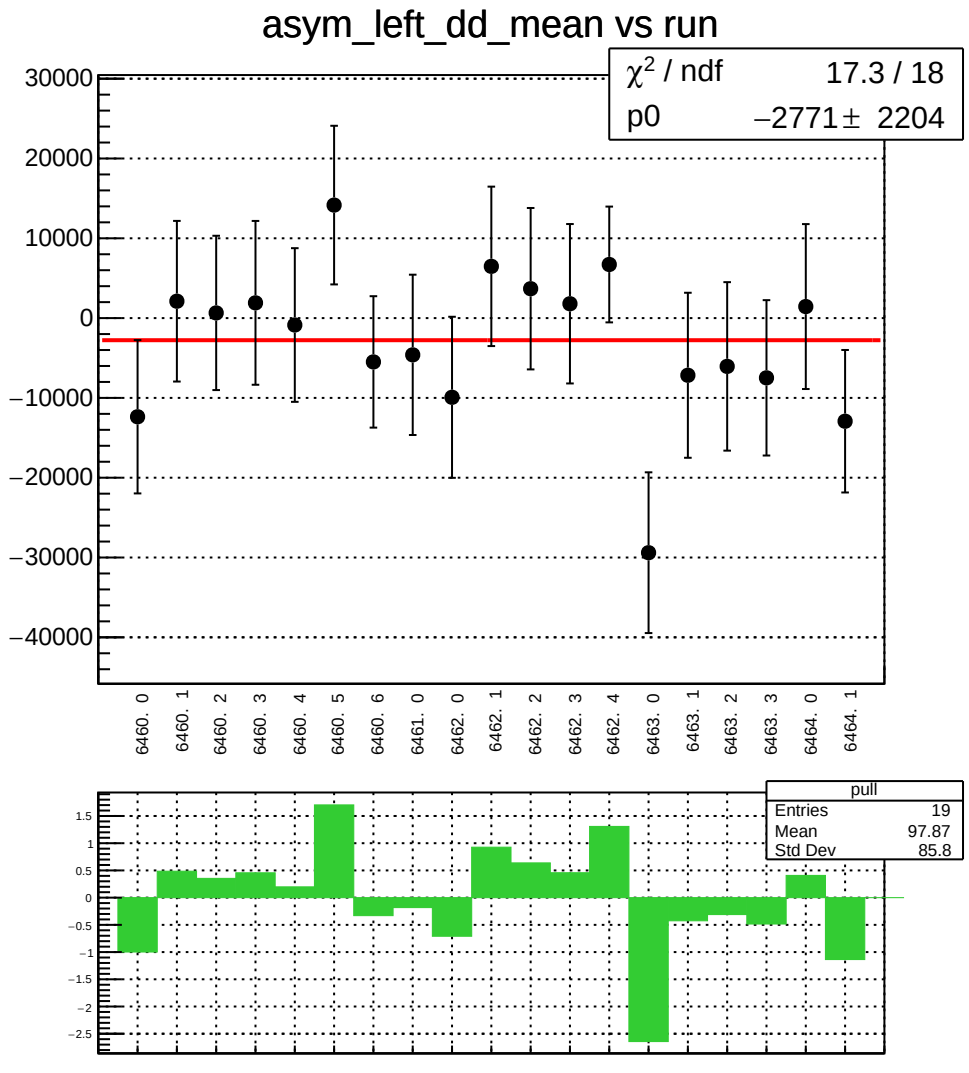

pull1D
Entries 19
Mean −0.01522
Std Dev 0.7904
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

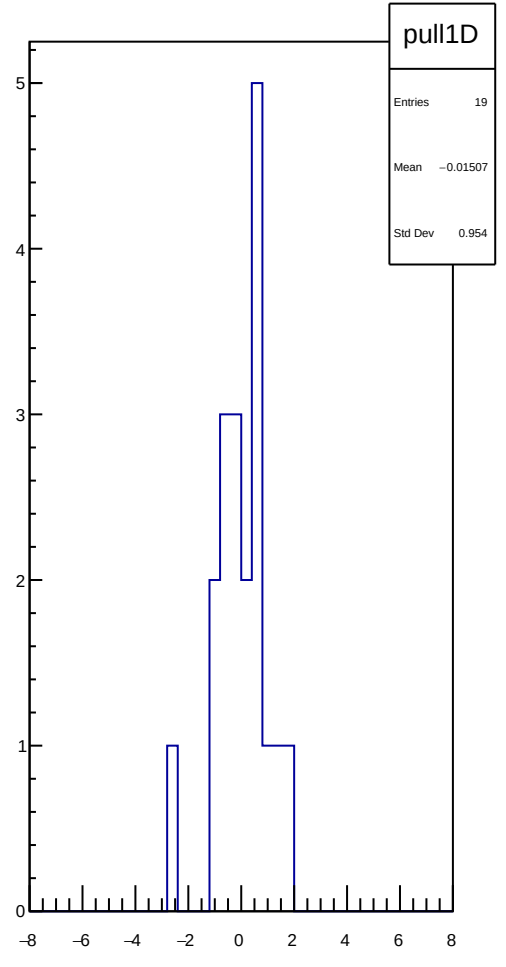

reg_asym_left_dd_rms vs run
χ² / ndf 18.27 / 18
p0 578.9 ± 0.9411
590
585
580
575
570
565
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

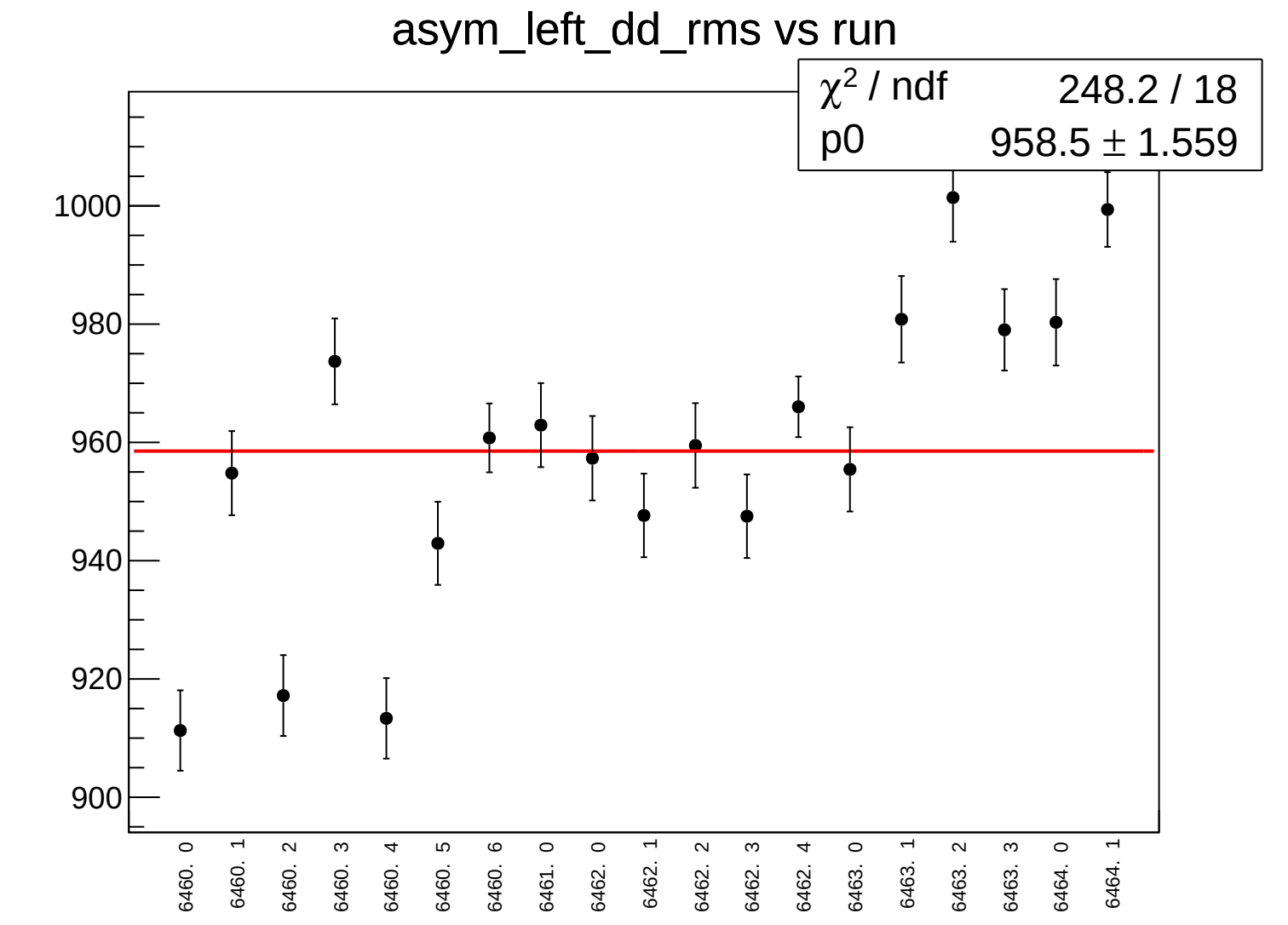

asym_left_dd_correction_mean vs run
χ² / ndf 13.28 / 18
p0 2337 ± 1755
30000
20000
10000
0
−10000
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 38.16
Std Dev 23.48
2
1.5
1
0.5
0
−0.5
−1
−1.5

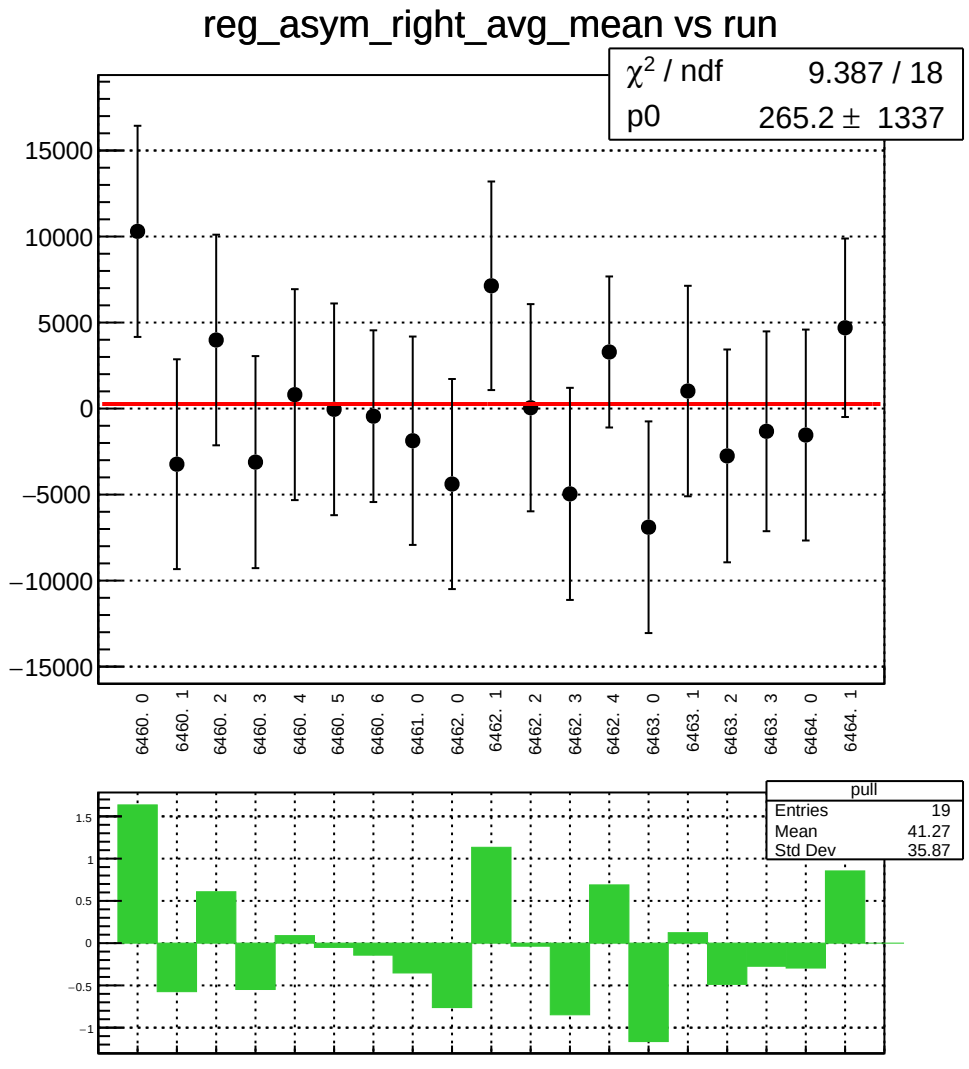

pull1D
Entries 19
Mean 0.006946
Std Dev 0.8358
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

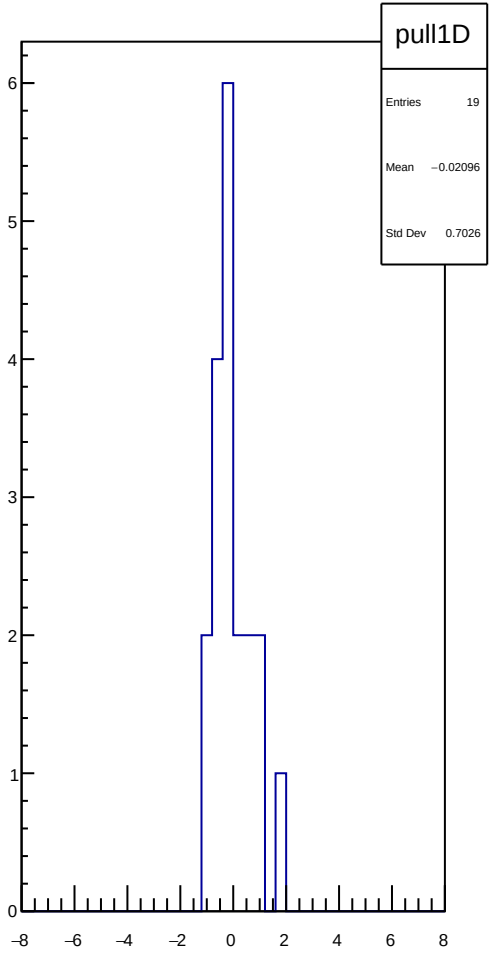

asym_left_dd_correction_rms vs run
χ² / ndf 603.3 / 18
p0 762.9 ± 1.241
820
800
780
760
740
720
700
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

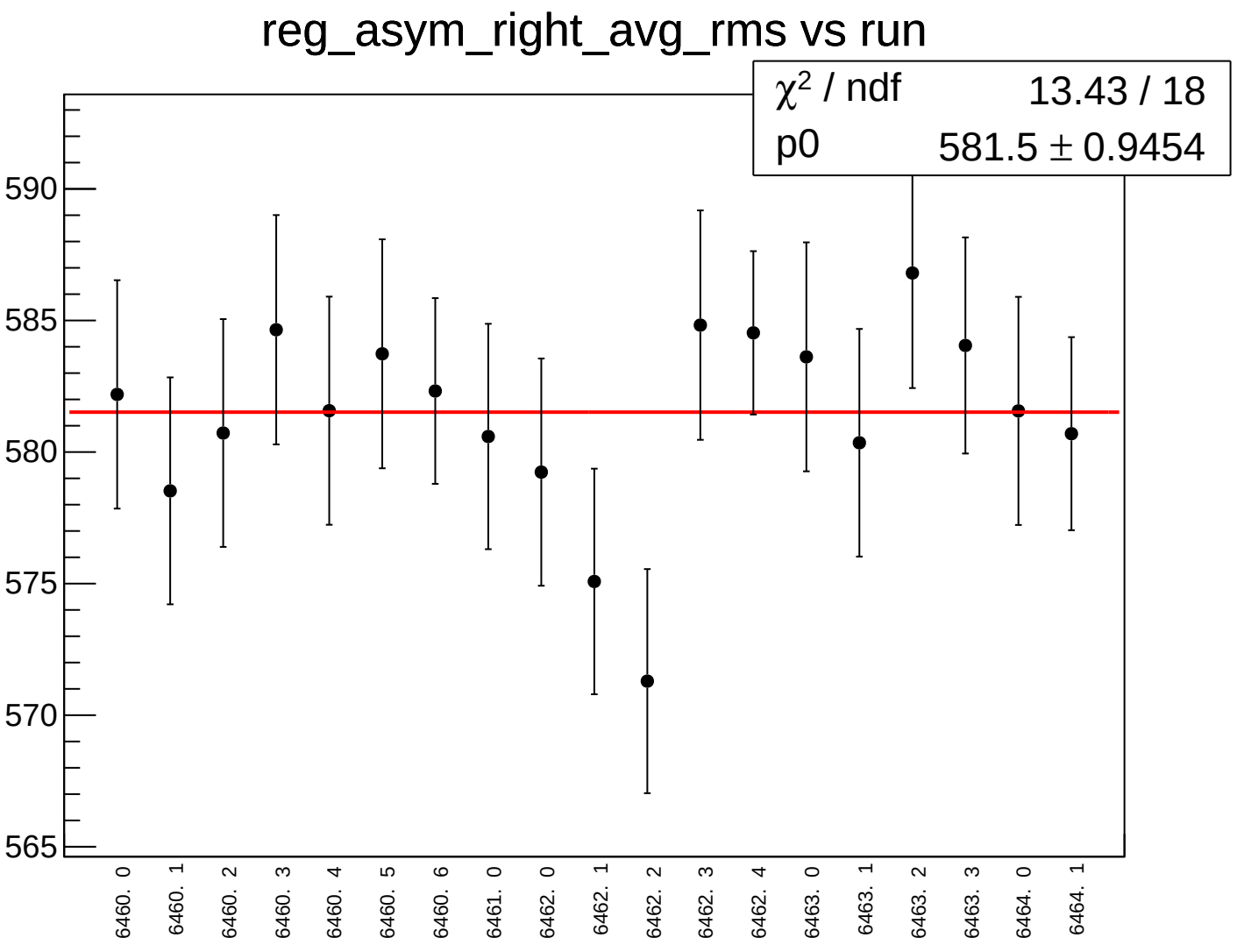

asym_left_dd_mean vs run
χ² / ndf 17.3 / 18
p0 −2771 ± 2204
30000
20000
10000
0
−10000
−20000
−30000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 97.87
Std Dev 85.8
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

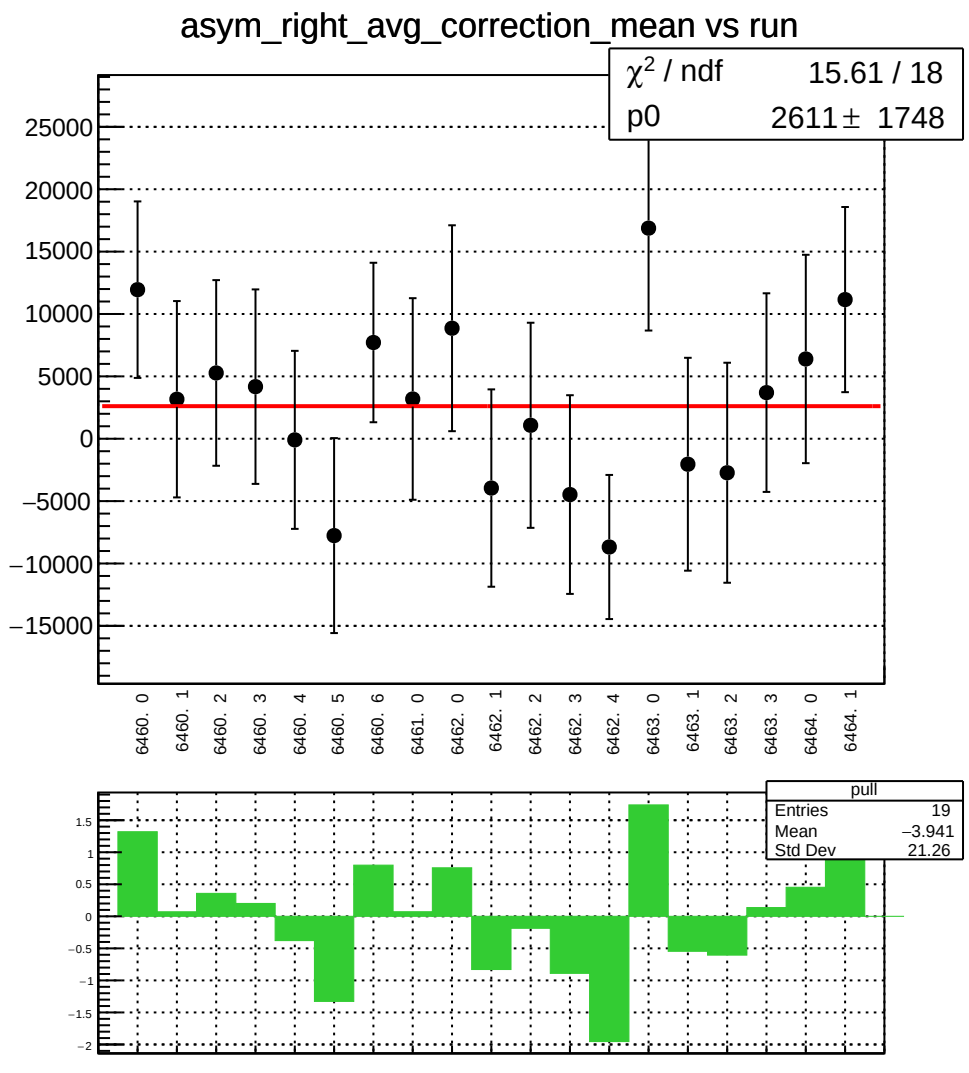

pull1D
Entries 19
Mean −0.01507
Std Dev 0.954
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

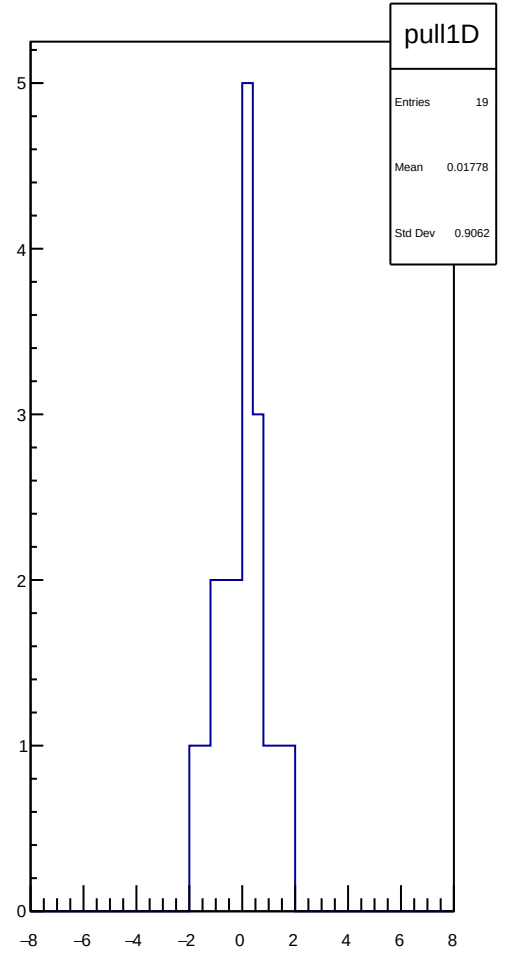

asym_left_dd_rms vs run
χ² / ndf 248.2 / 18
p0 958.5 ± 1.559
1000
980
960
940
920
900
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

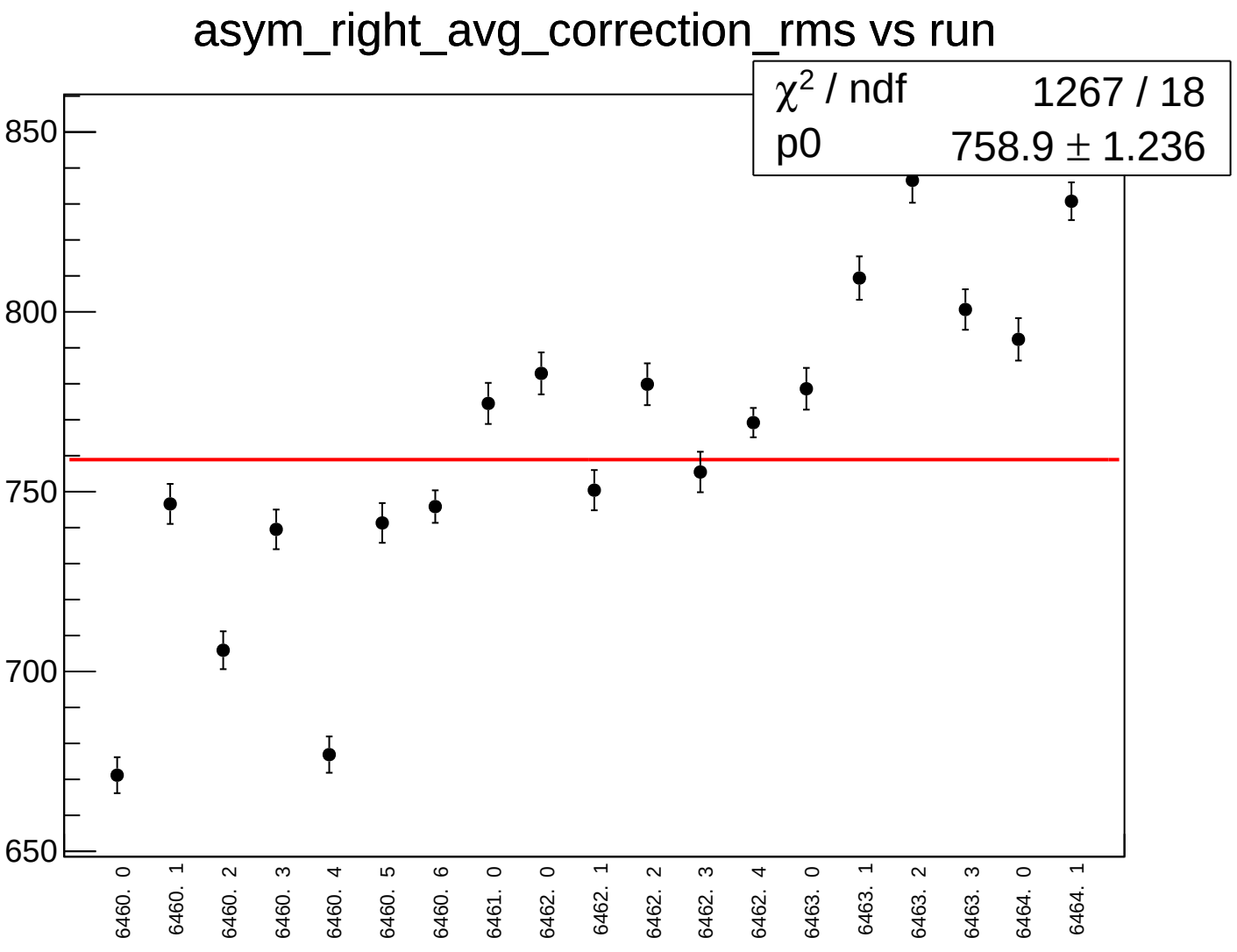

reg_asym_right_avg_mean vs run
χ² / ndf 9.387 / 18
p0 265.2 ± 1337
15000
10000
5000
0
−5000
−10000
−15000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 41.27
Std Dev 35.87
1.5
1
0.5
0
−0.5
−1


pull1D
Entries 19
Mean −0.02096
Std Dev 0.7026
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 13.43 / 18
p0 581.5 ± 0.9454
590
585
580
575
570
565
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1


asym_right_avg_correction_mean vs run
χ² / ndf 15.61 / 18
p0 2611 ± 1748
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −3.941
Std Dev 21.26
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 19
Mean 0.01778
Std Dev 0.9062
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_right_avg_correction_rms vs run
χ² / ndf 1267 / 18
p0 758.9 ± 1.236
850
800
750
700
650
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
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6462. 3
6462. 4
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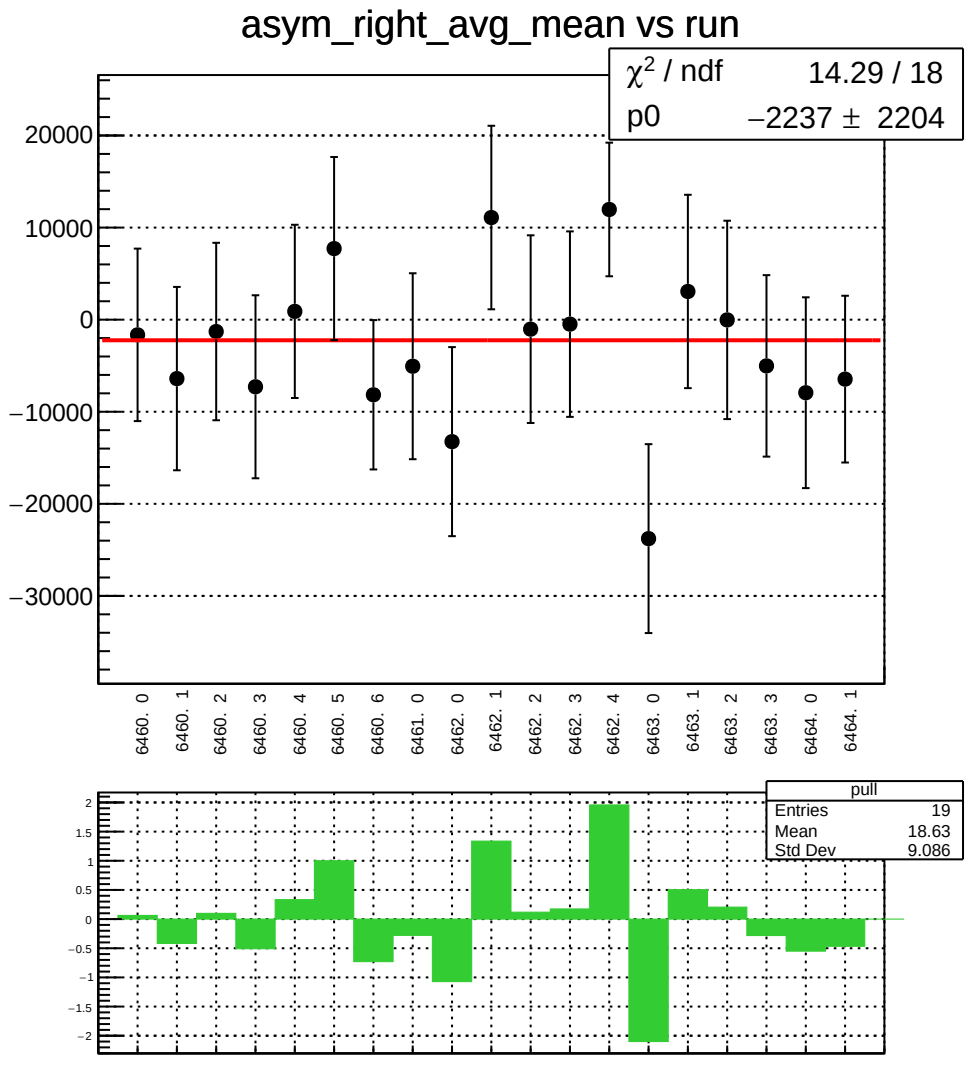
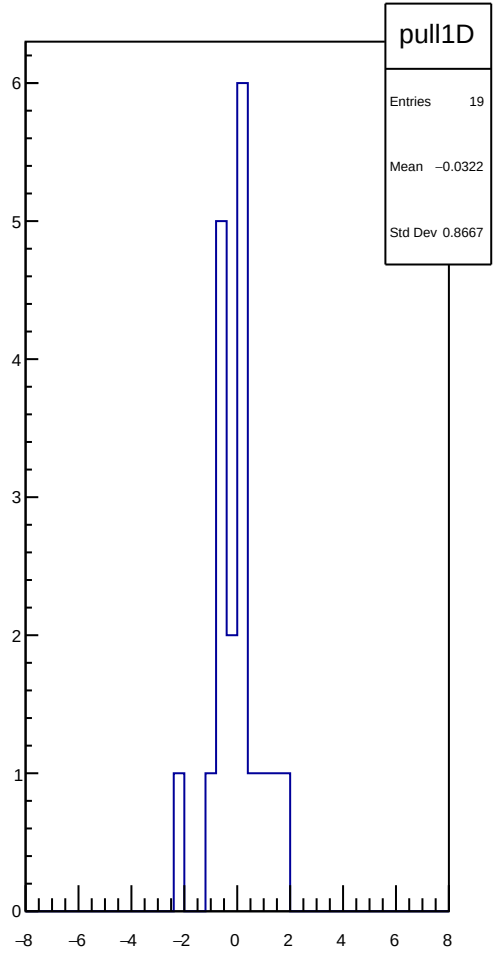
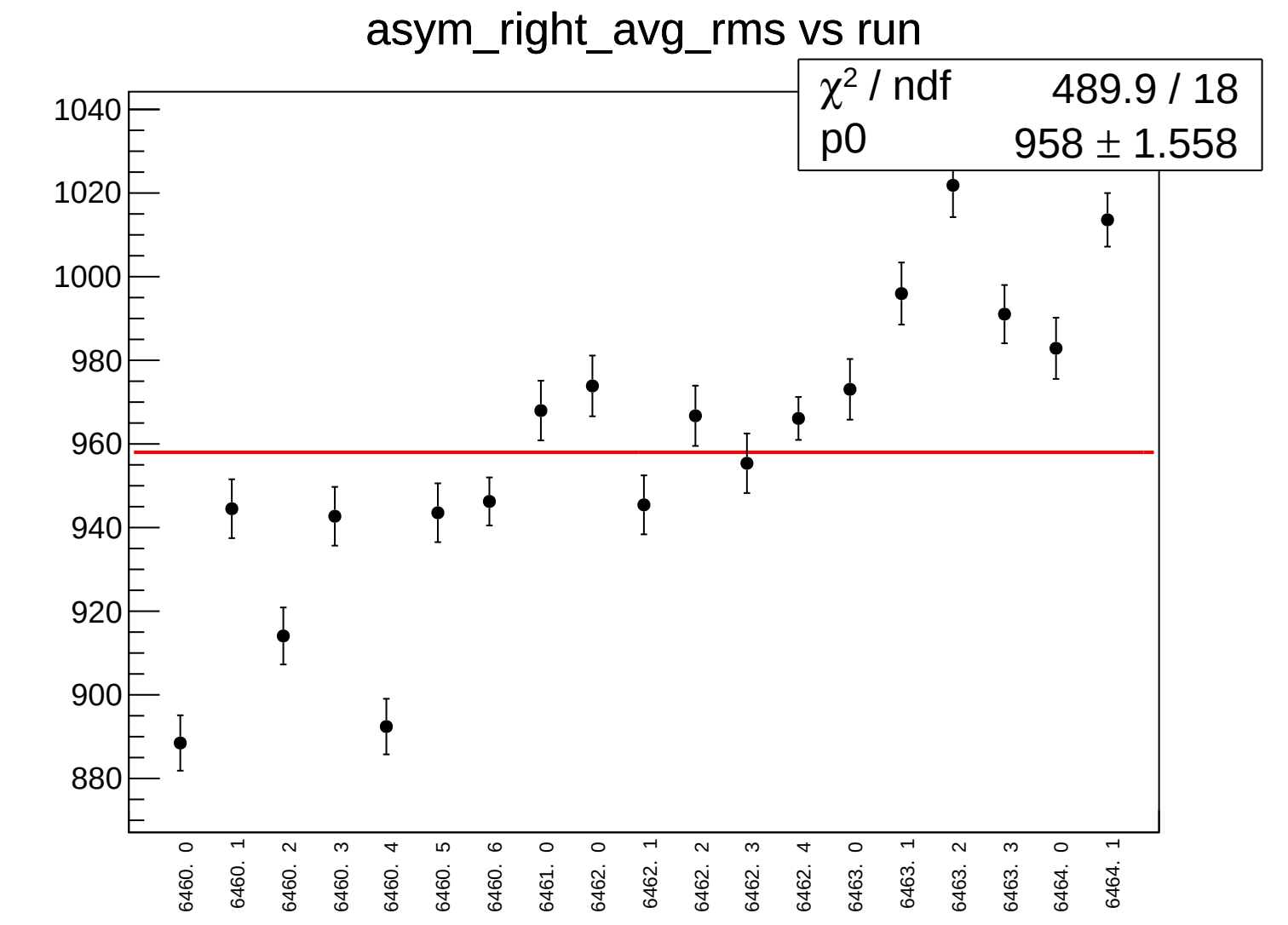
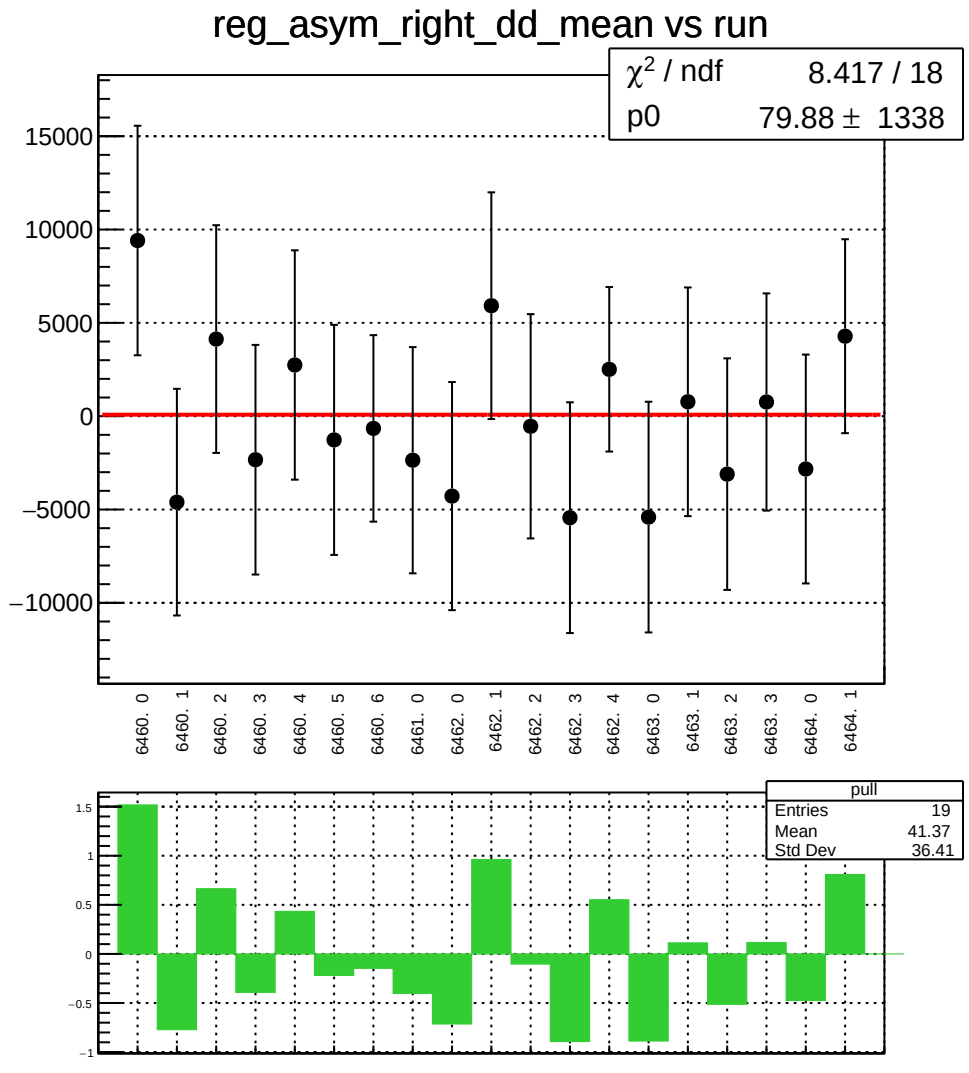
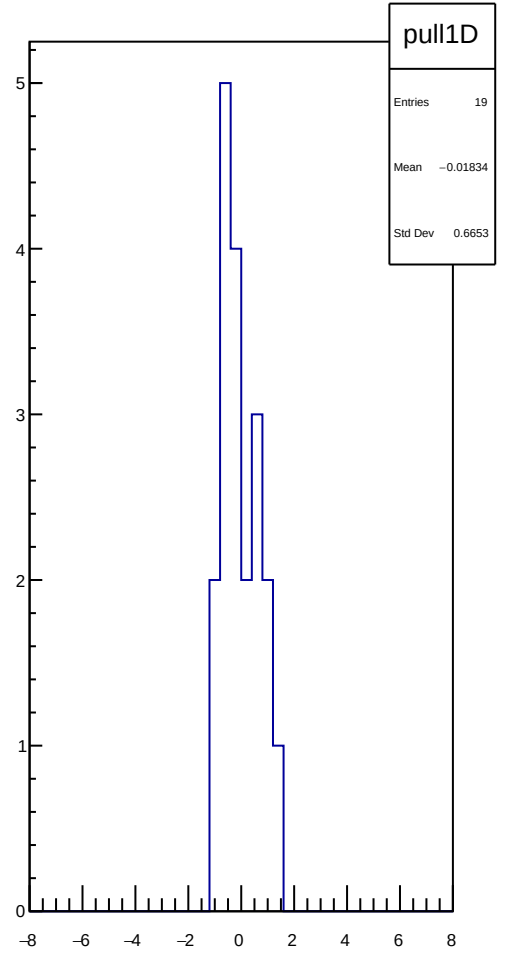
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

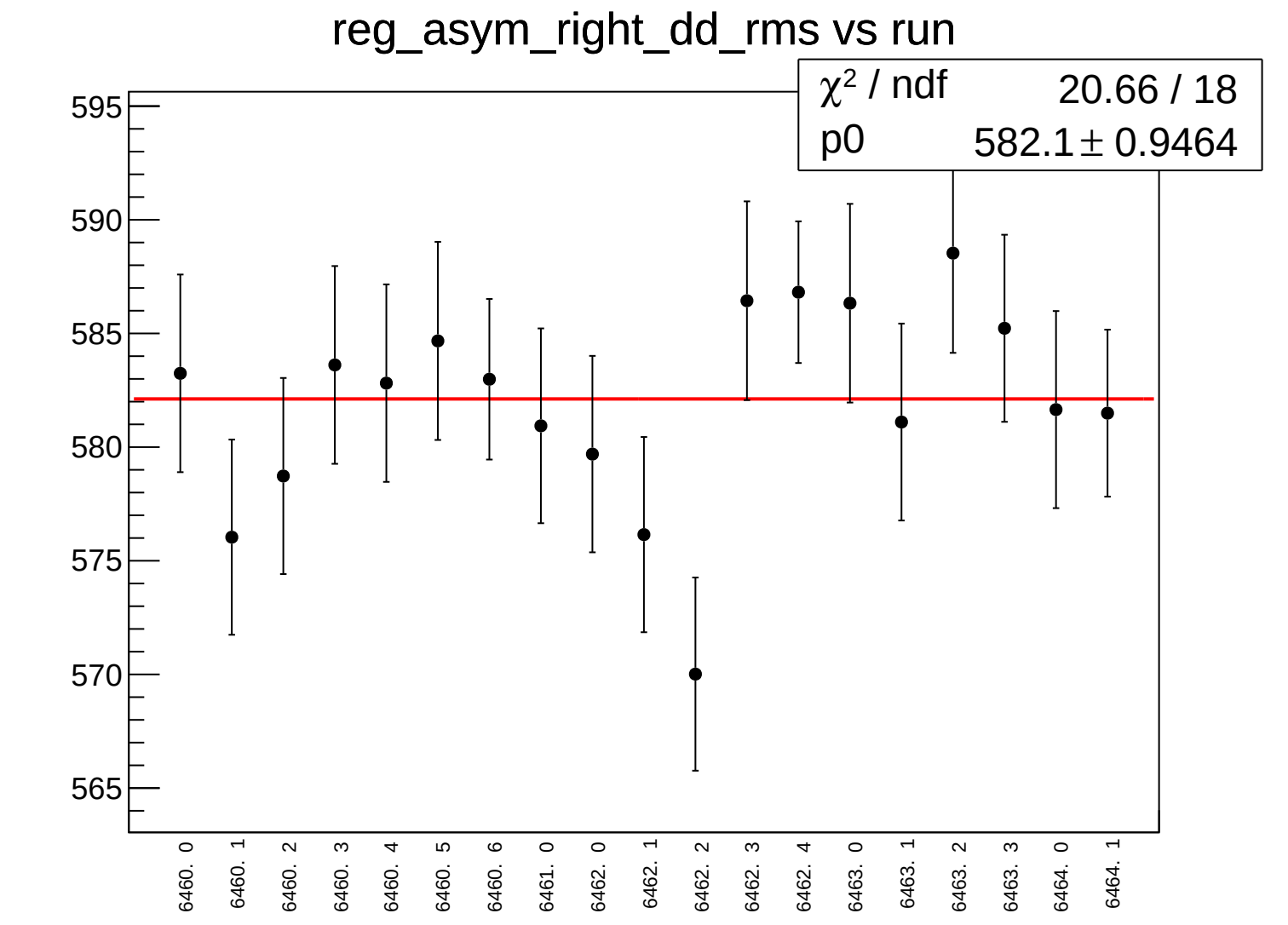

asym_right_avg_mean vs run
χ² / ndf 14.29 / 18
p0 −2237 ± 2204
20000
10000
0
−10000
−20000
−30000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 18.63
Std Dev 9.086
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

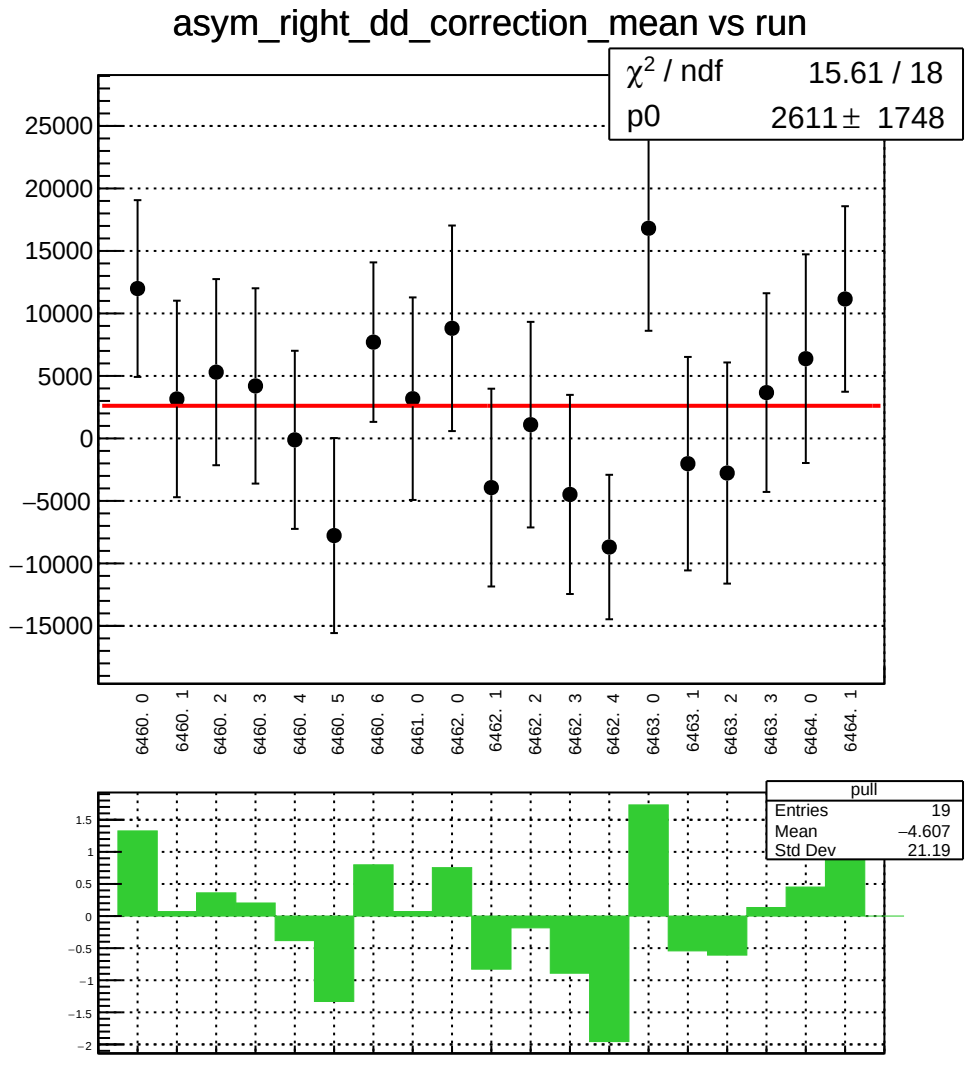

pull1D
Entries 19
Mean −0.0322
Std Dev 0.8667
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

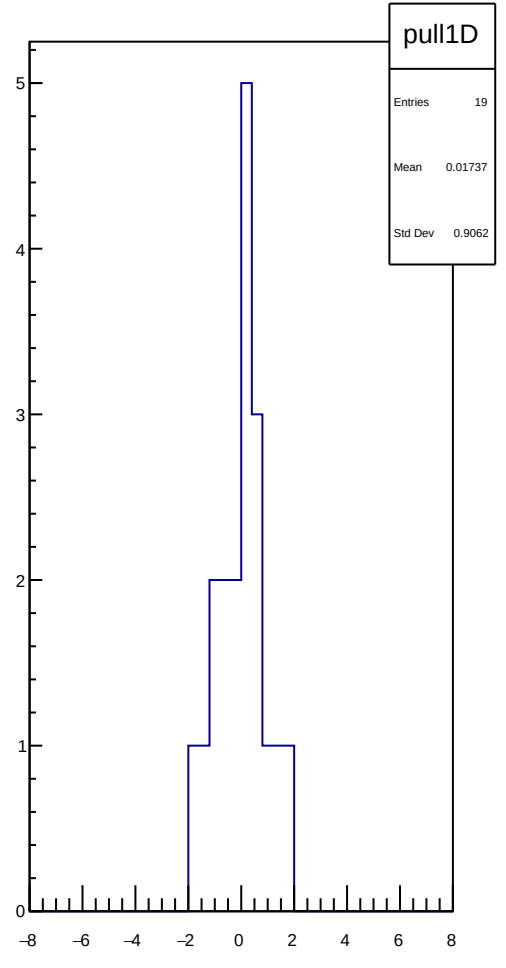

asym_right_avg_rms vs run
χ² / ndf 489.9 / 18
p0 958 ± 1.558
1040
1020
1000
980
960
940
920
900
880
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

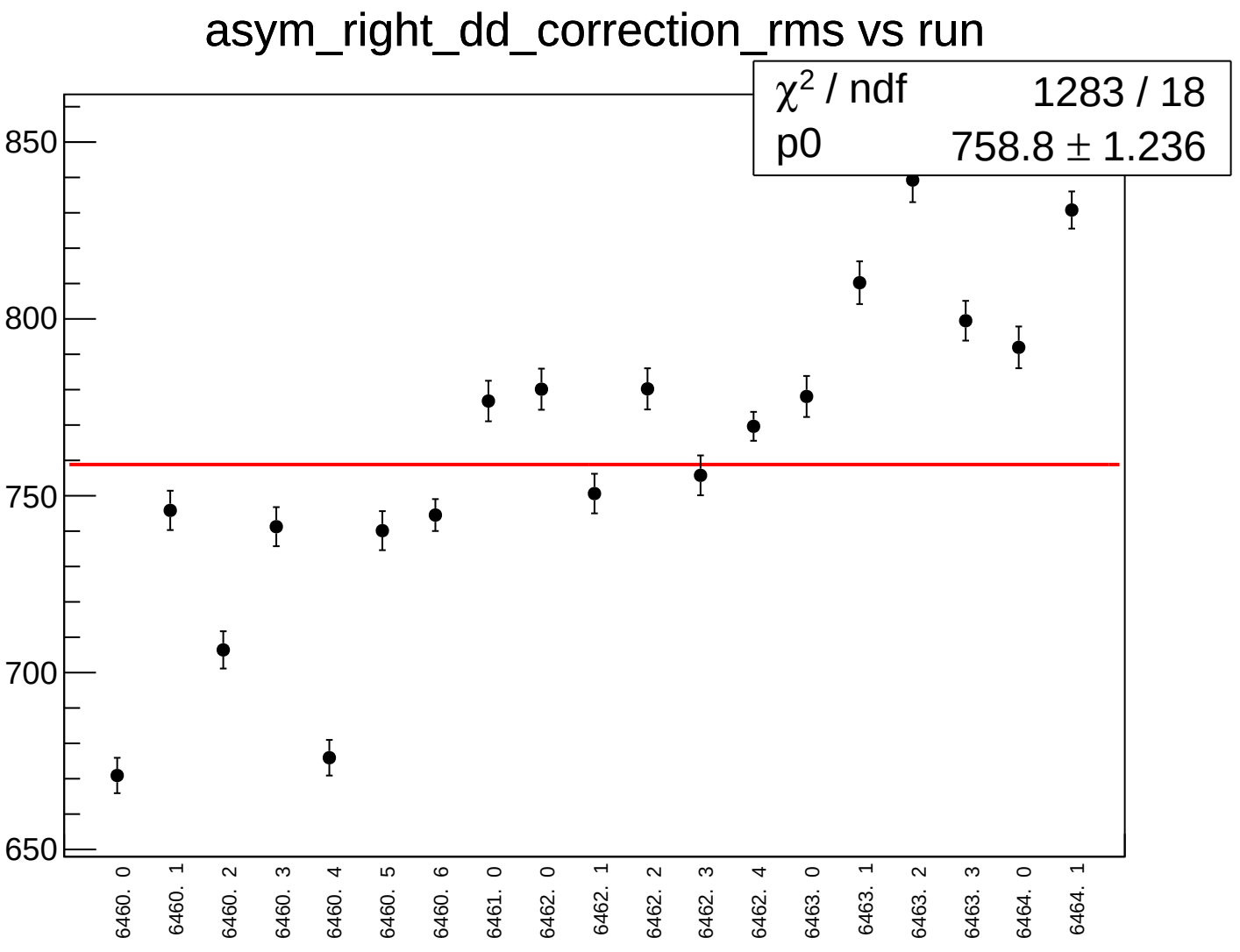

reg_asym_right_dd_mean vs run
χ² / ndf 8.417 / 18
p0 79.88 ± 1338
15000
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 41.37
Std Dev 36.41
1.5
1
0.5
0
−0.5
−1

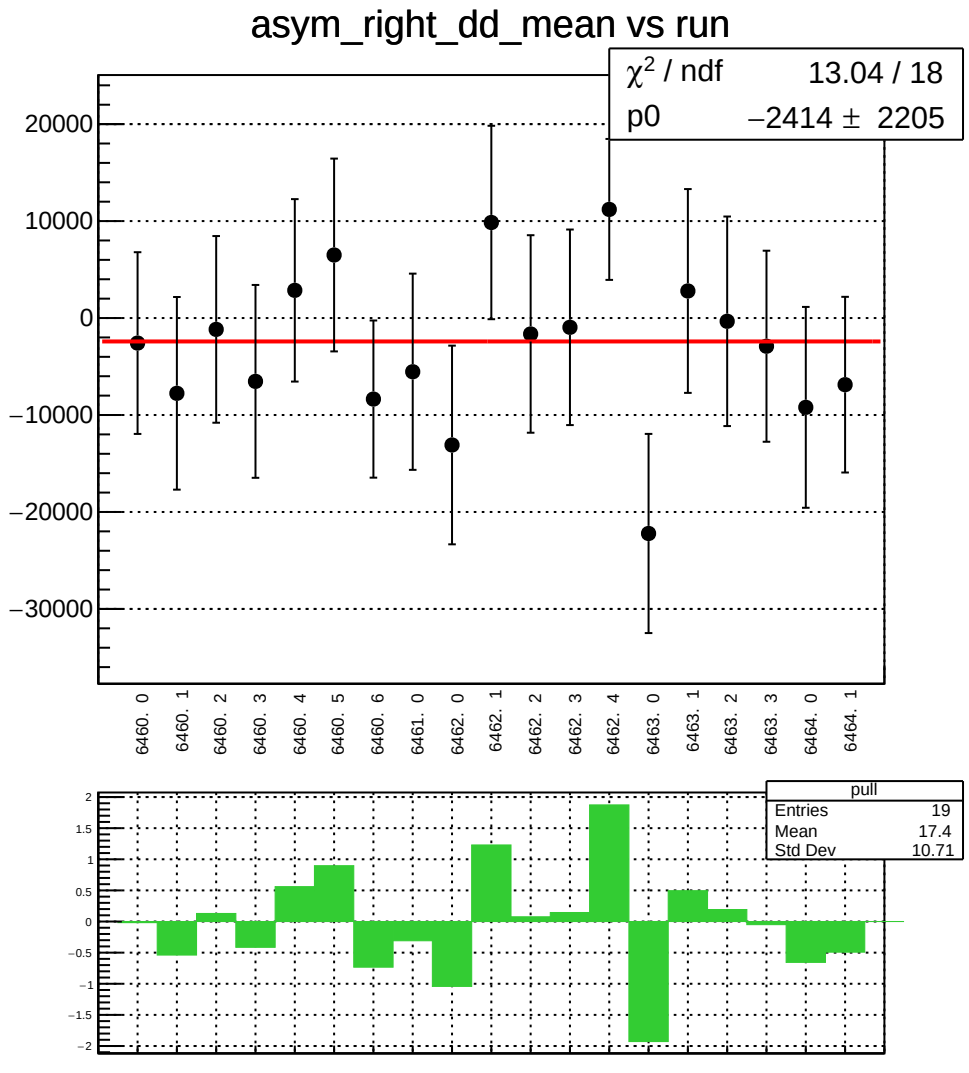

pull1D
Entries 19
Mean −0.01834
Std Dev 0.6653
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

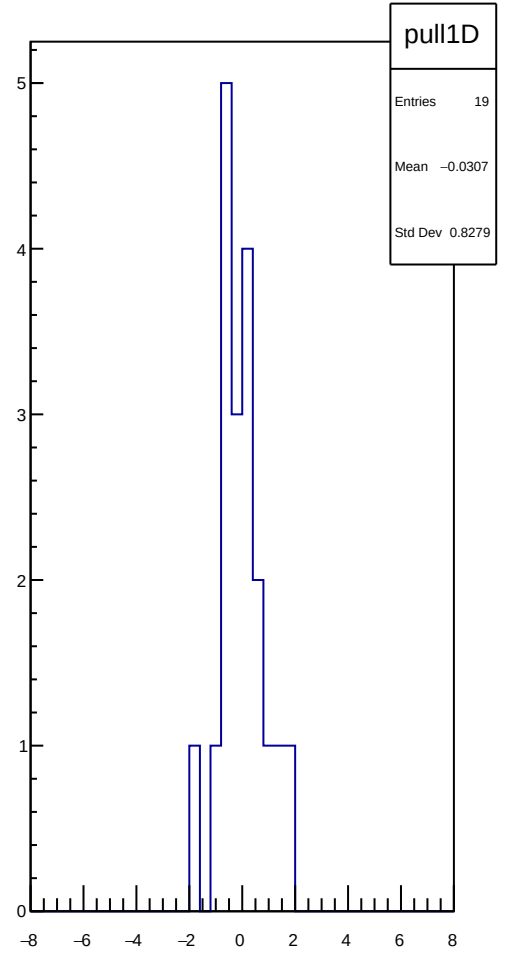

reg_asym_right_dd_rms vs run
χ² / ndf 20.66 / 18
p0 582.1 ± 0.9464
595
590
585
580
575
570
565
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

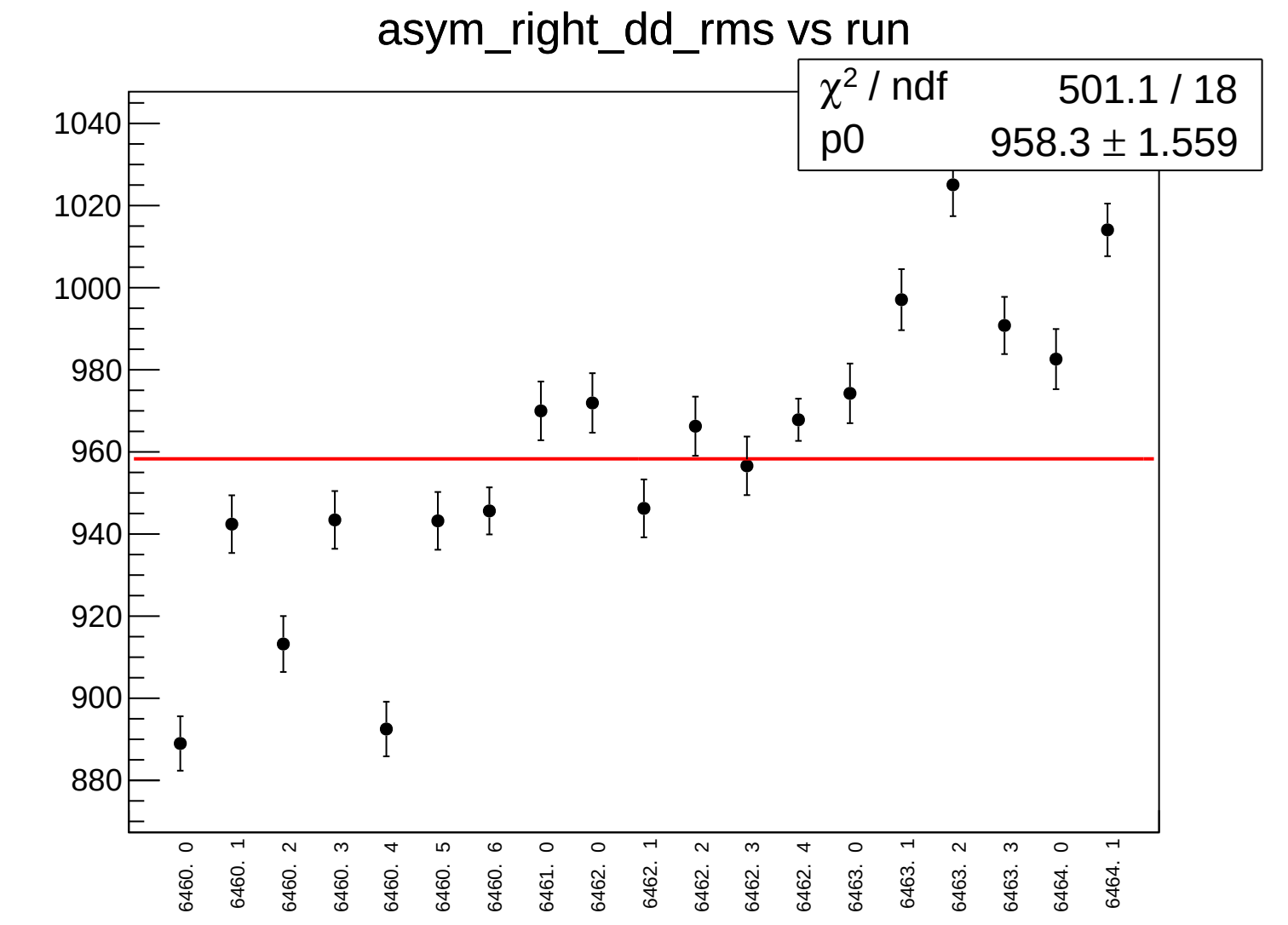

asym_right_dd_correction_mean vs run
χ² / ndf 15.61 / 18
p0 2611 ± 1748
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −4.607
Std Dev 21.19
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 19
Mean 0.01737
Std Dev 0.9062
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_right_dd_correction_rms vs run
χ² / ndf 1283 / 18
p0 758.8 ± 1.236
850
800
750
700
650
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1


asym_right_dd_mean vs run
χ² / ndf 13.04 / 18
p0 −2414 ± 2205
20000
10000
0
−10000
−20000
−30000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 17.4
Std Dev 10.71
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 19
Mean −0.0307
Std Dev 0.8279
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_right_dd_rms vs run
χ² / ndf 501.1 / 18
p0 958.3 ± 1.559
1040
1020
1000
980
960
940
920
900
880
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
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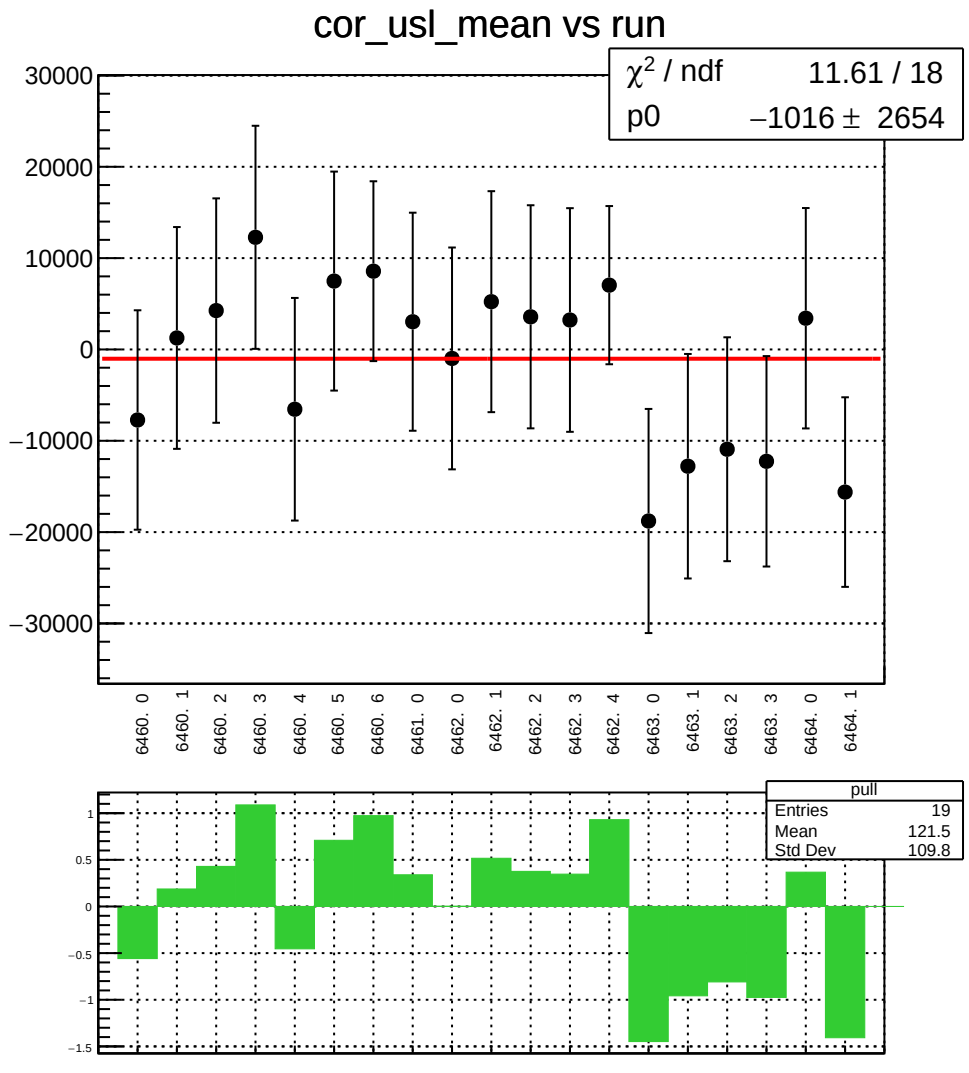
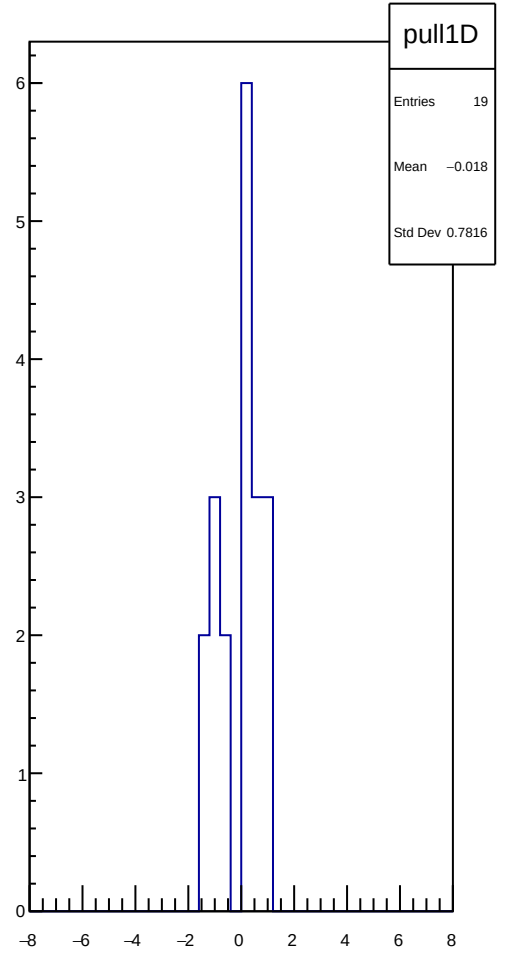
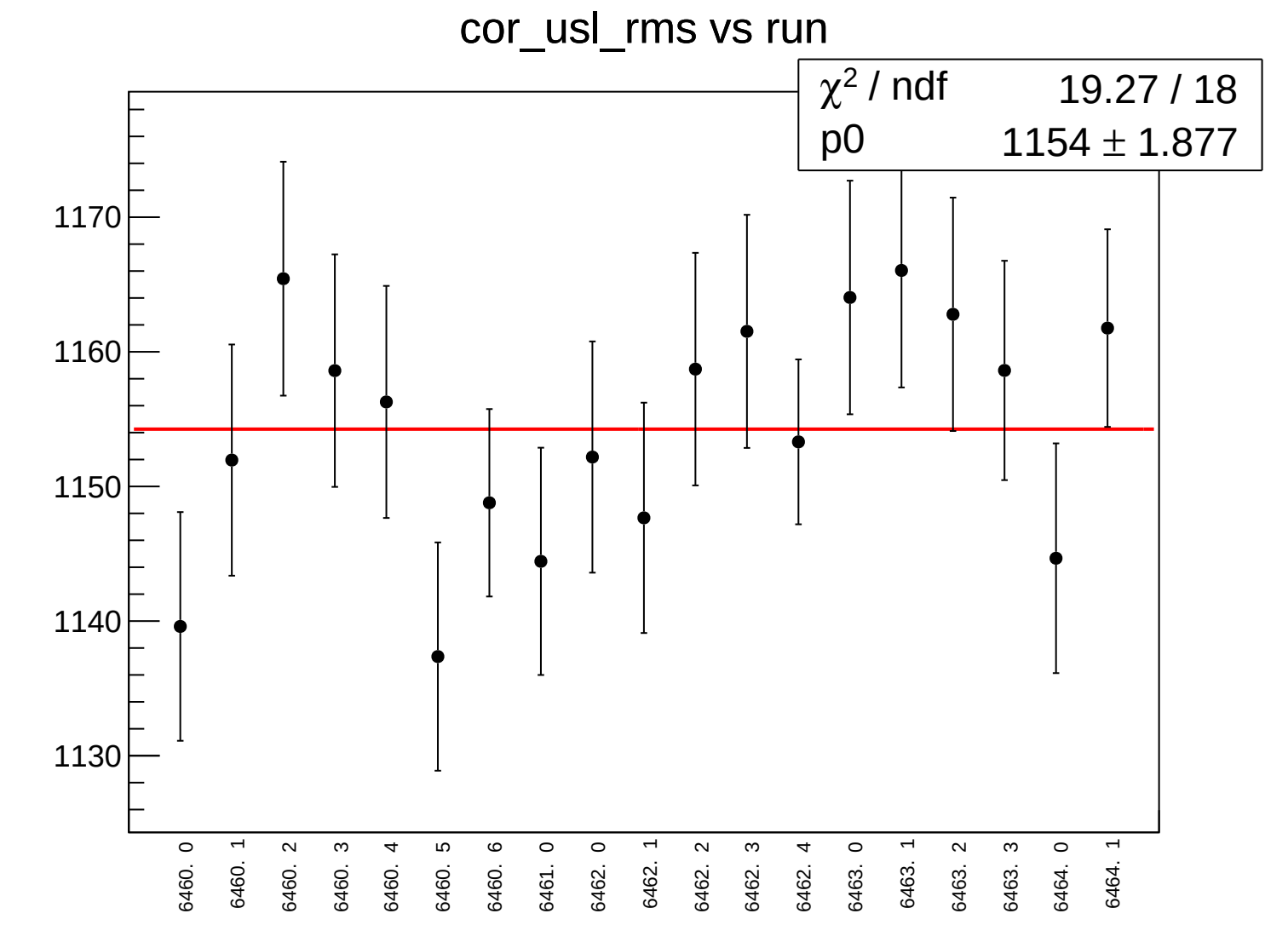
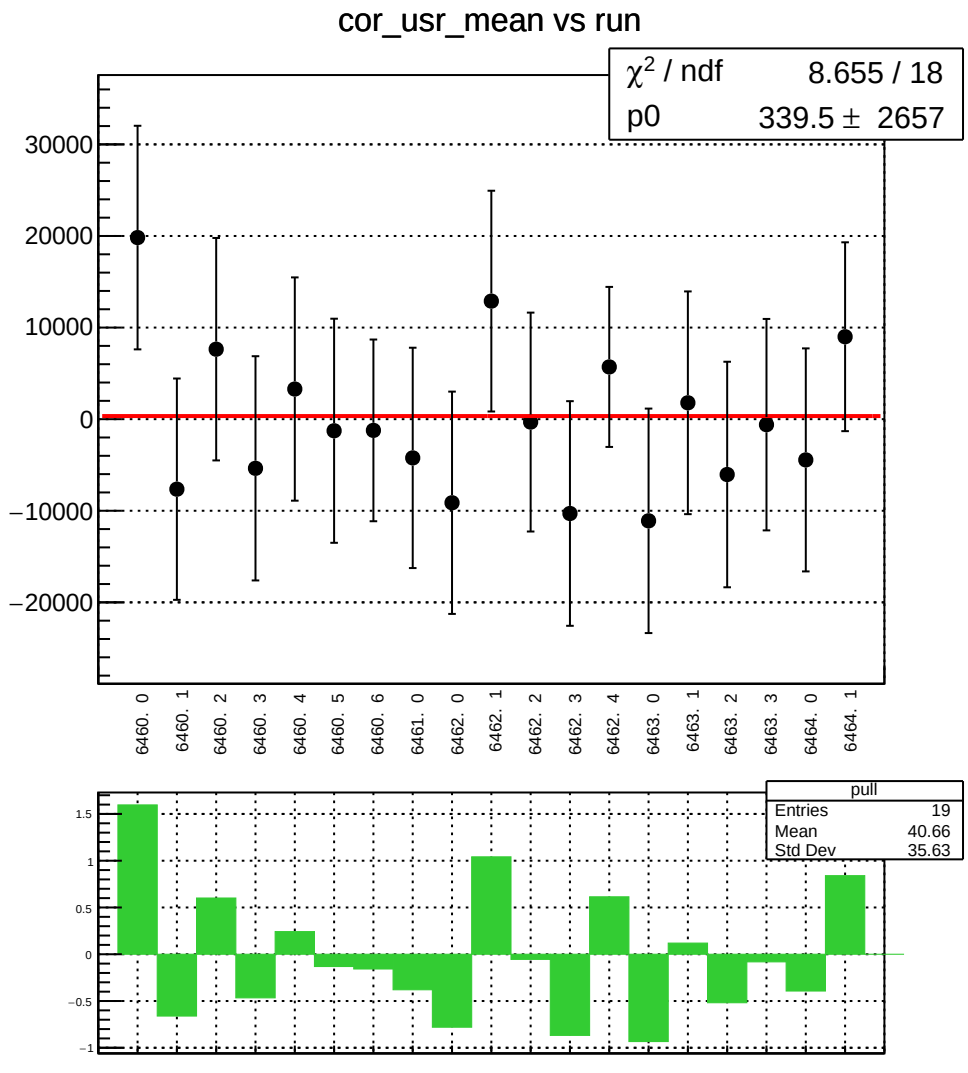
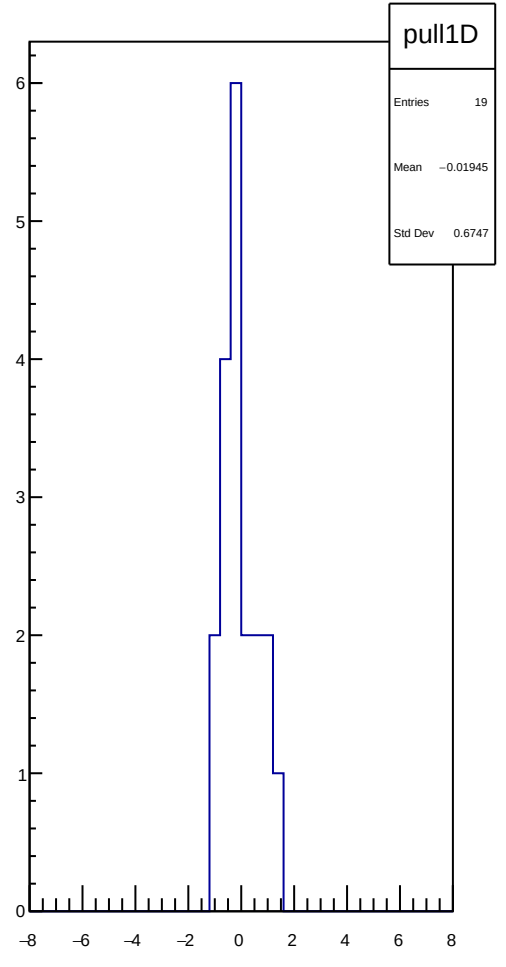
6464. 0
6464. 1

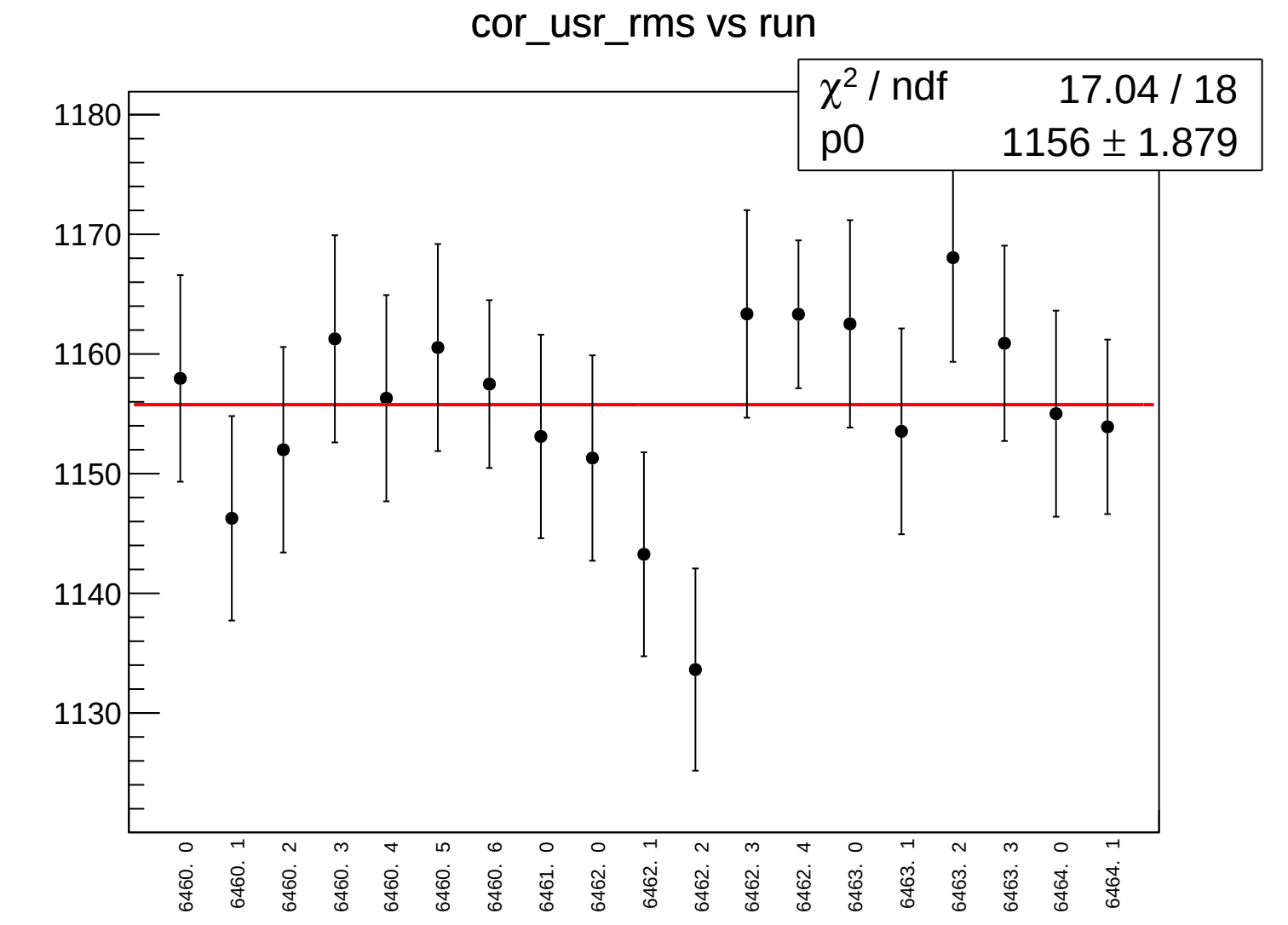

cor_usl_mean vs run
χ² / ndf 11.61 / 18
p0 −1016 ± 2654
30000
20000
10000
0
−10000
−20000
−30000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 121.5
Std Dev 109.8
1
0.5
0
−0.5
−1
−1.5

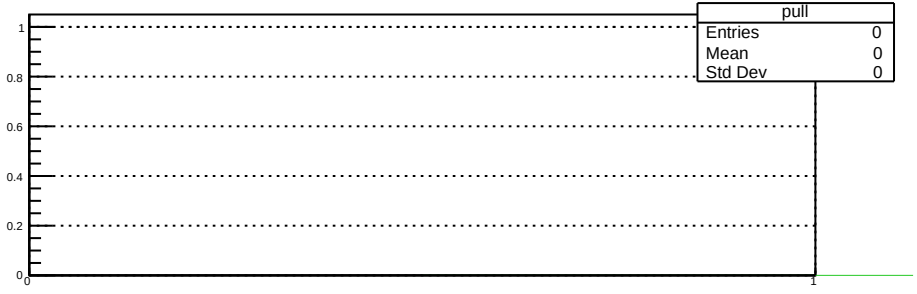

pull1D
Entries 19
Mean −0.018
Std Dev 0.7816
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

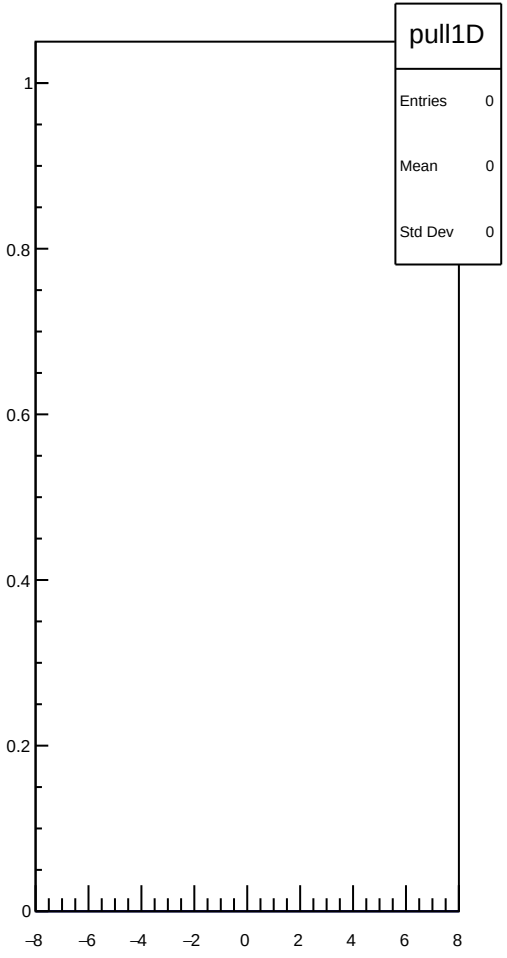

cor_usl_rms vs run
χ² / ndf 19.27 / 18
p0 1154 ± 1.877
1170
1160
1150
1140
1130
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

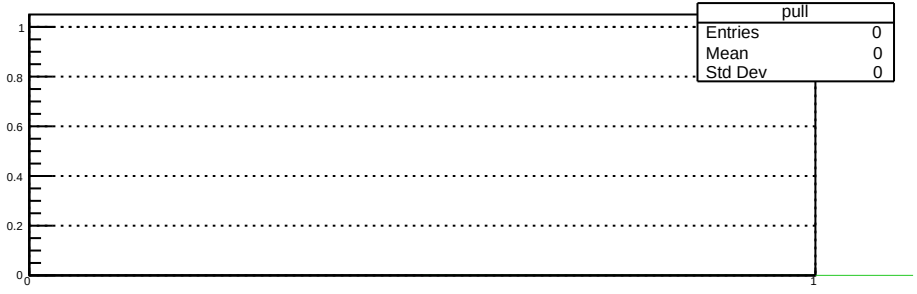

cor_usr_mean vs run
χ² / ndf 8.655 / 18
p0 339.5 ± 2657
30000
20000
10000
0
−10000
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 40.66
Std Dev 35.63
1.5
1
0.5
0
−0.5
−1

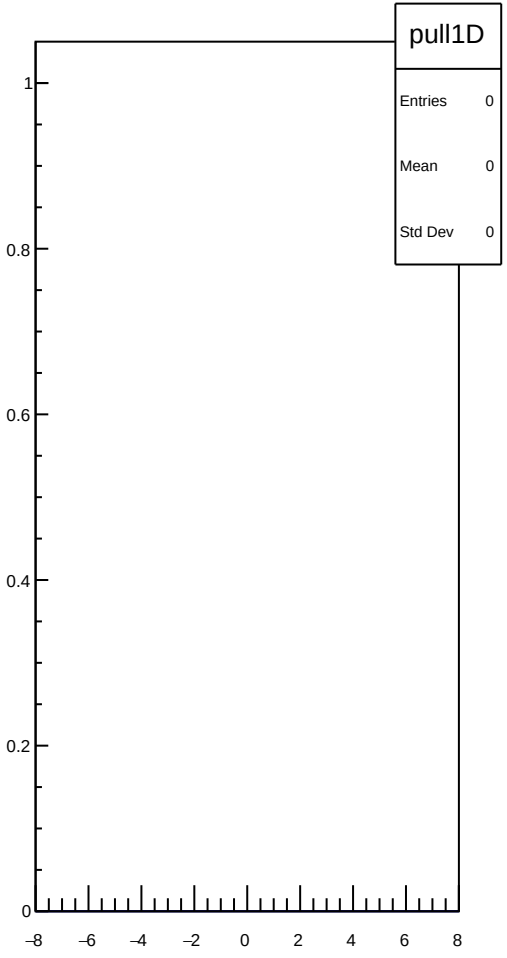

pull1D
Entries 19
Mean −0.01945
Std Dev 0.6747
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

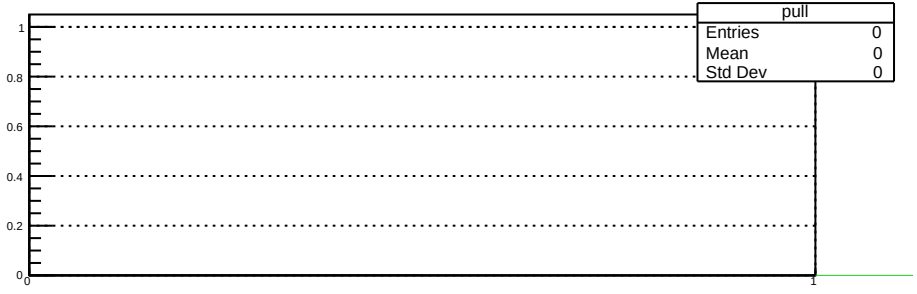

cor_usr_rms vs run
χ² / ndf 17.04 / 18
p0 1156 ± 1.879
1180
1170
1160
1150
1140
1130
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

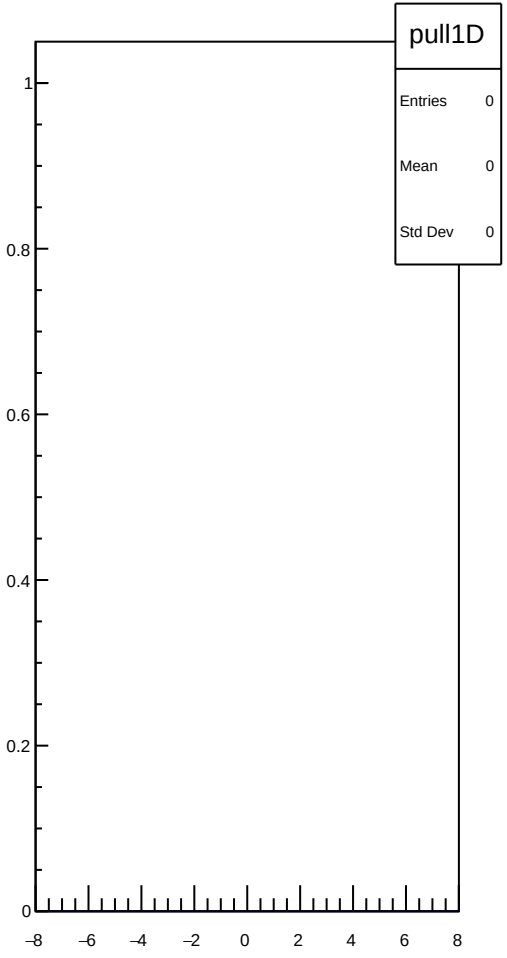

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

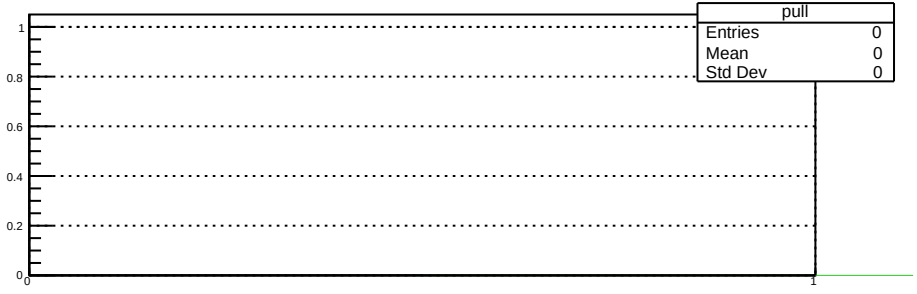

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

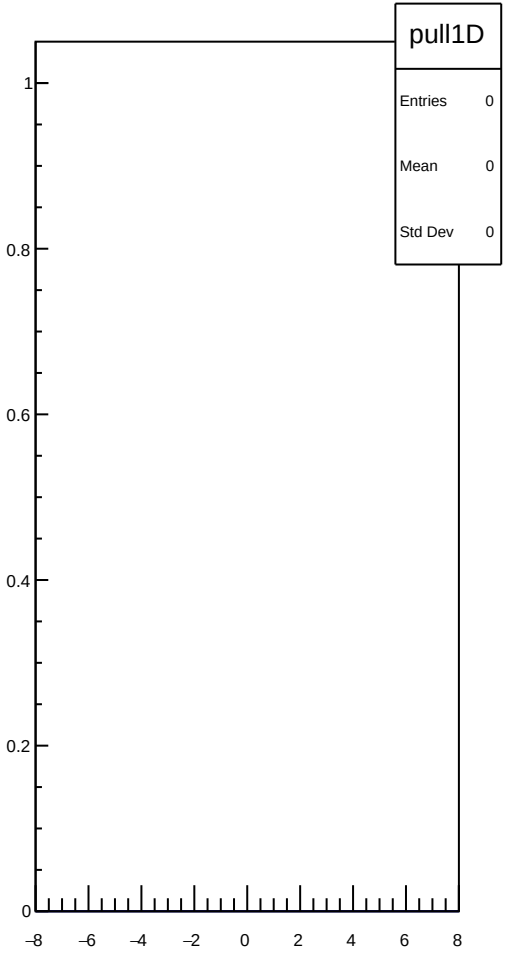

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

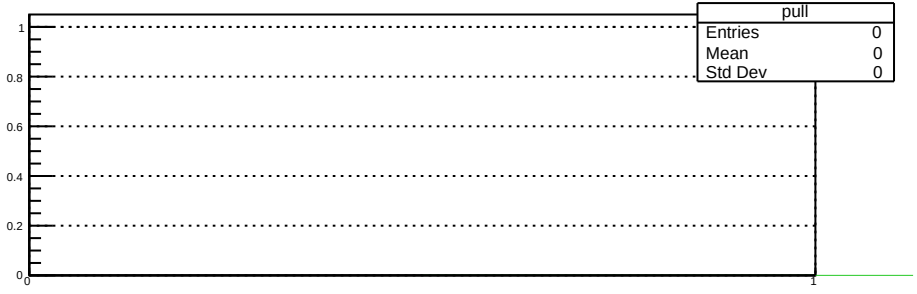

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

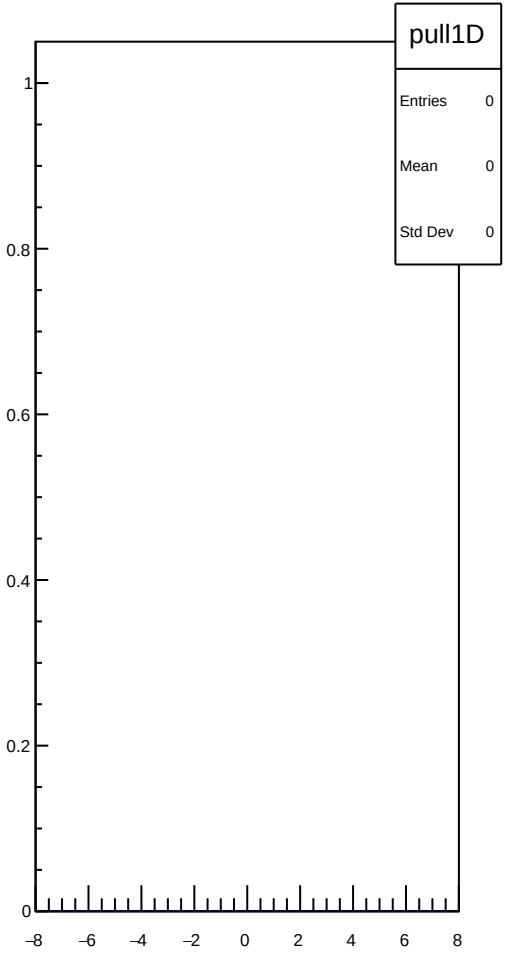

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

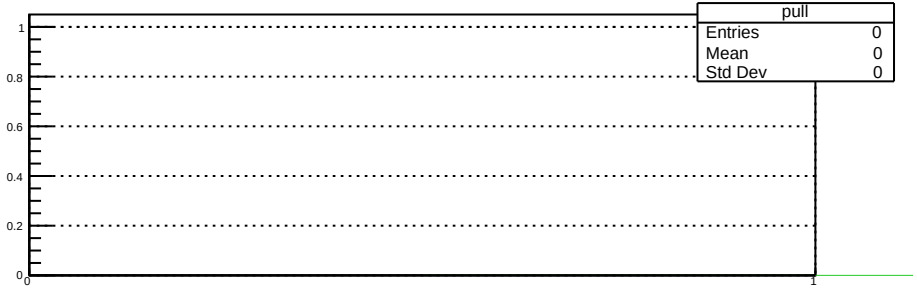

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

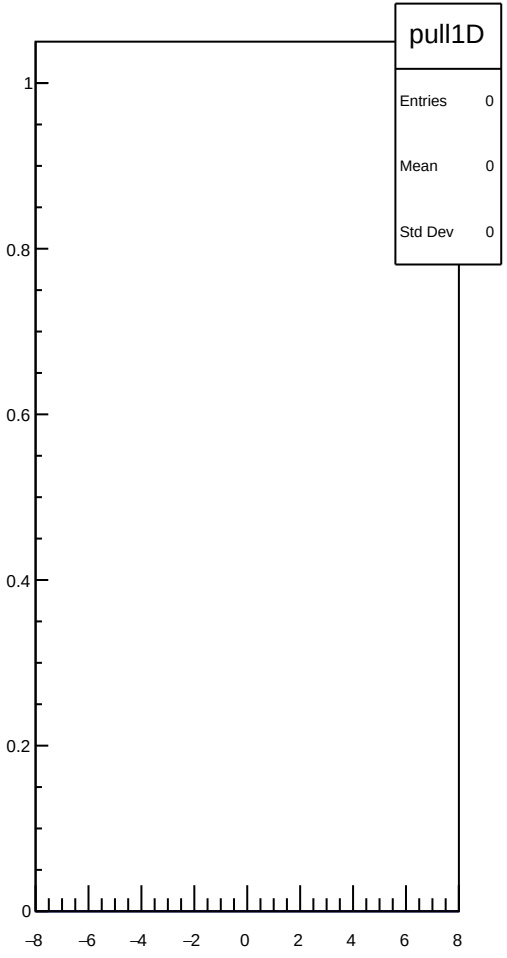

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

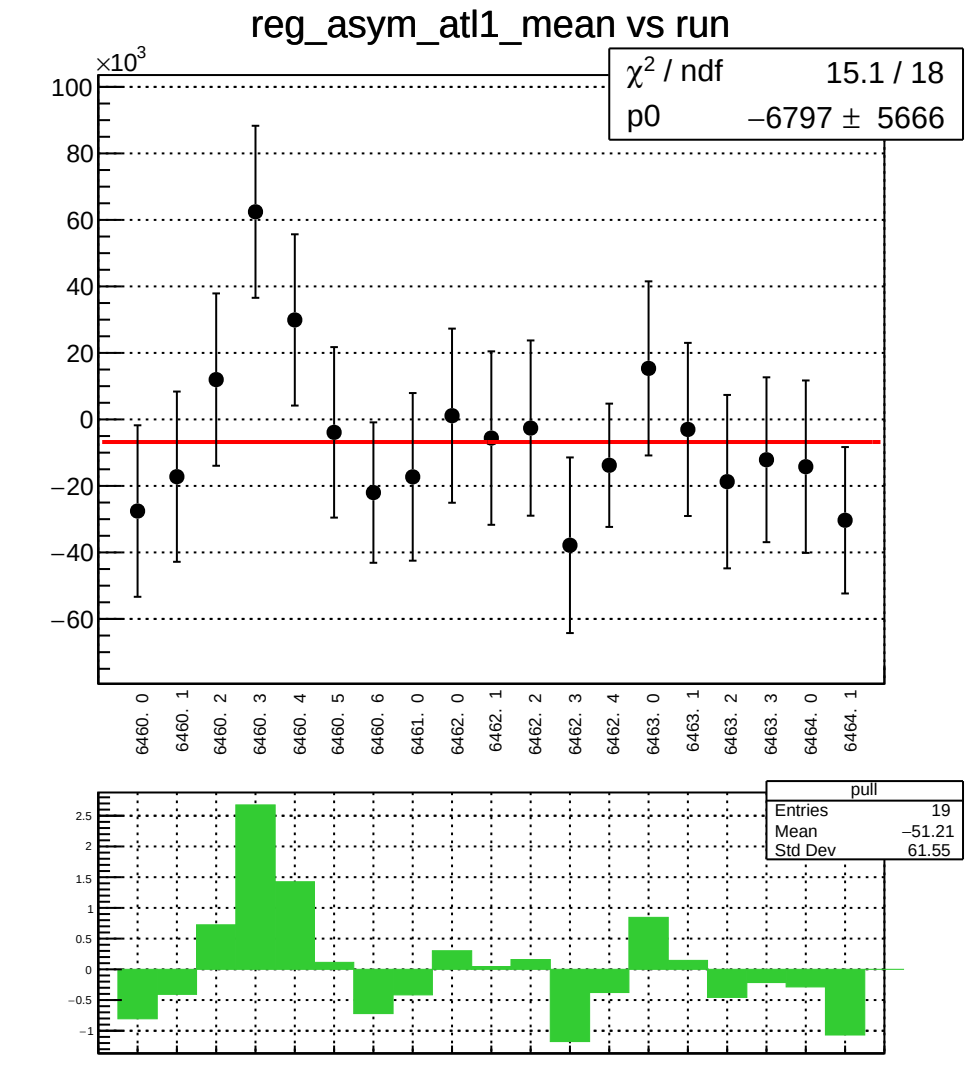

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

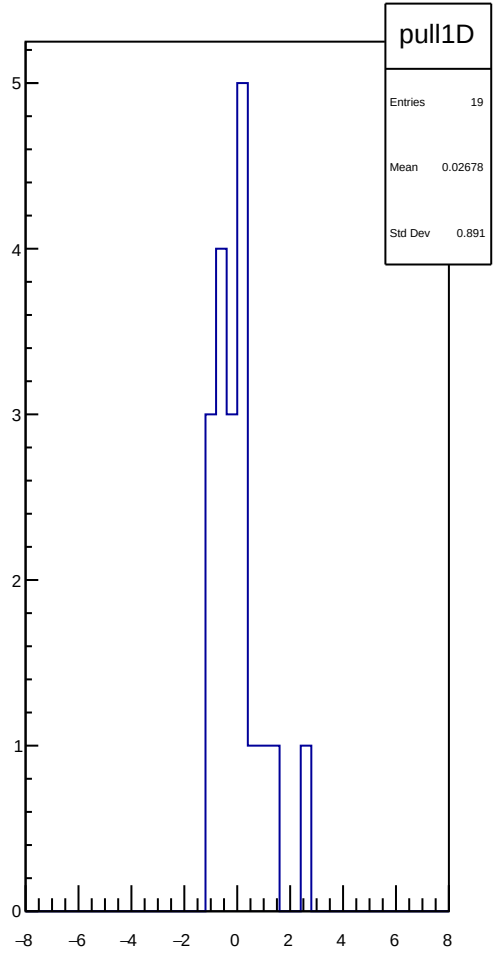

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

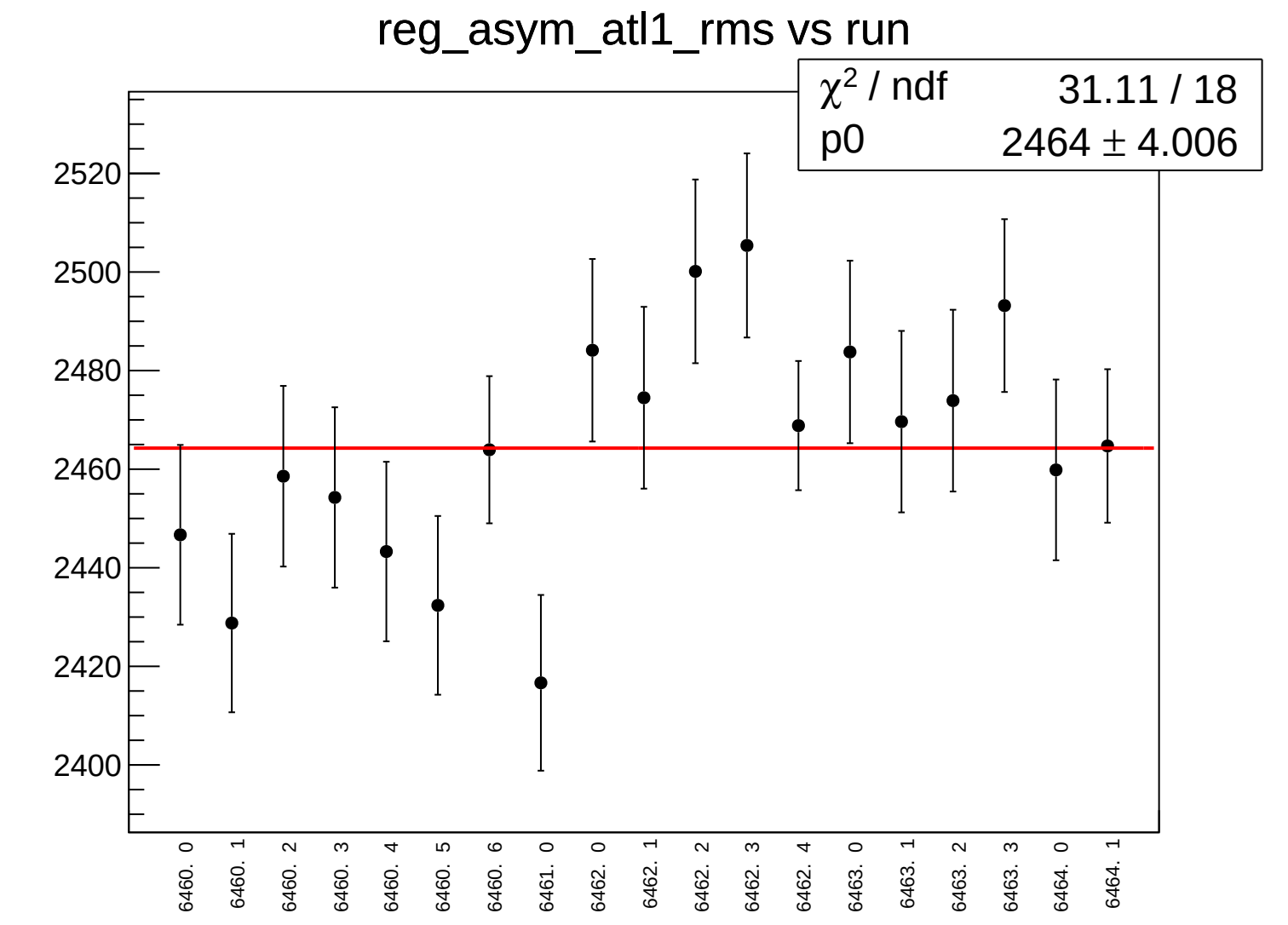

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

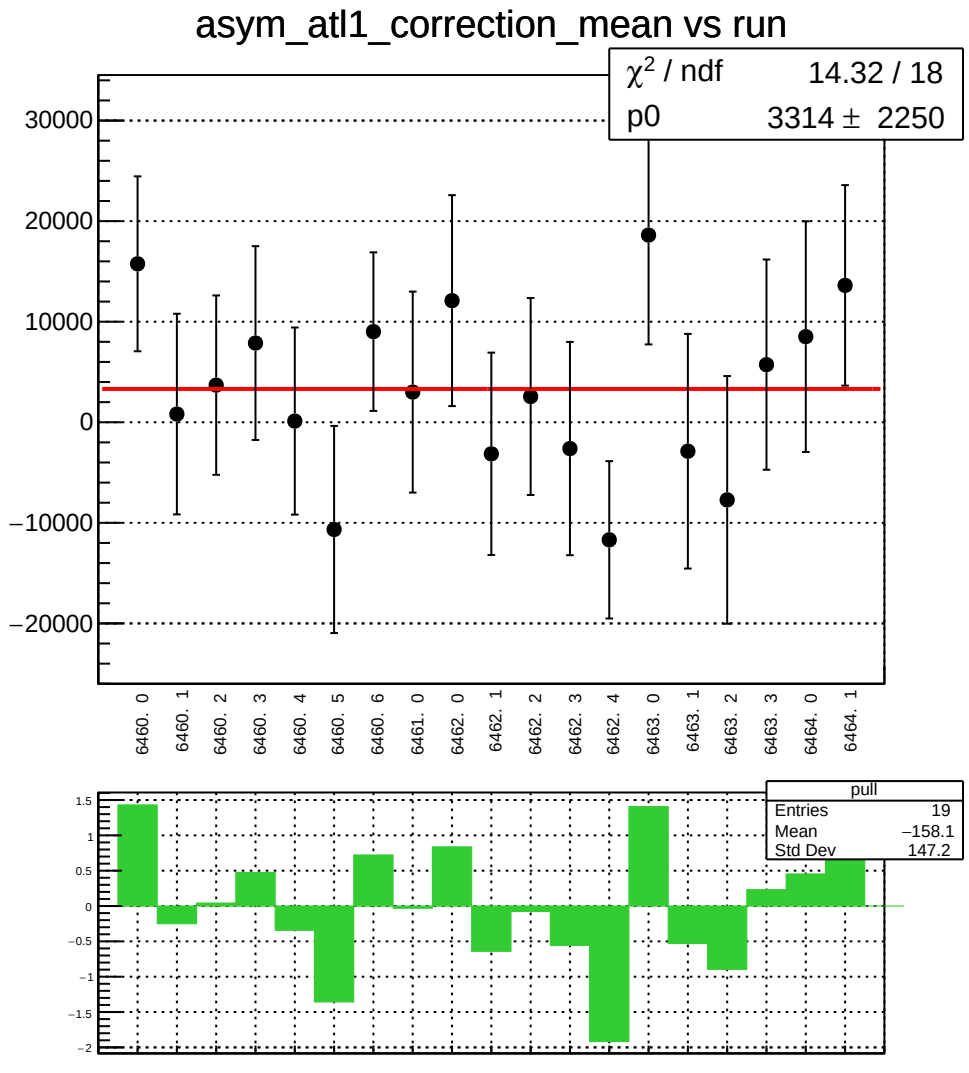

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

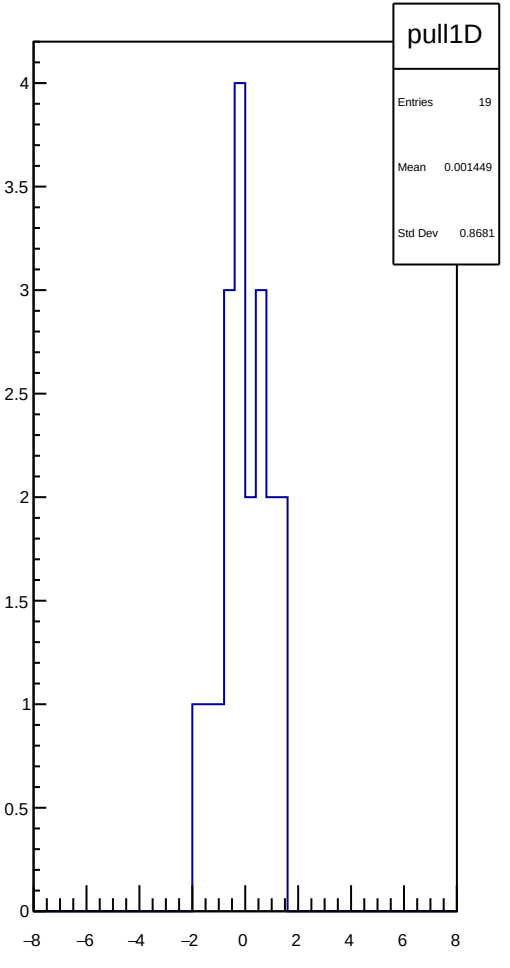

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

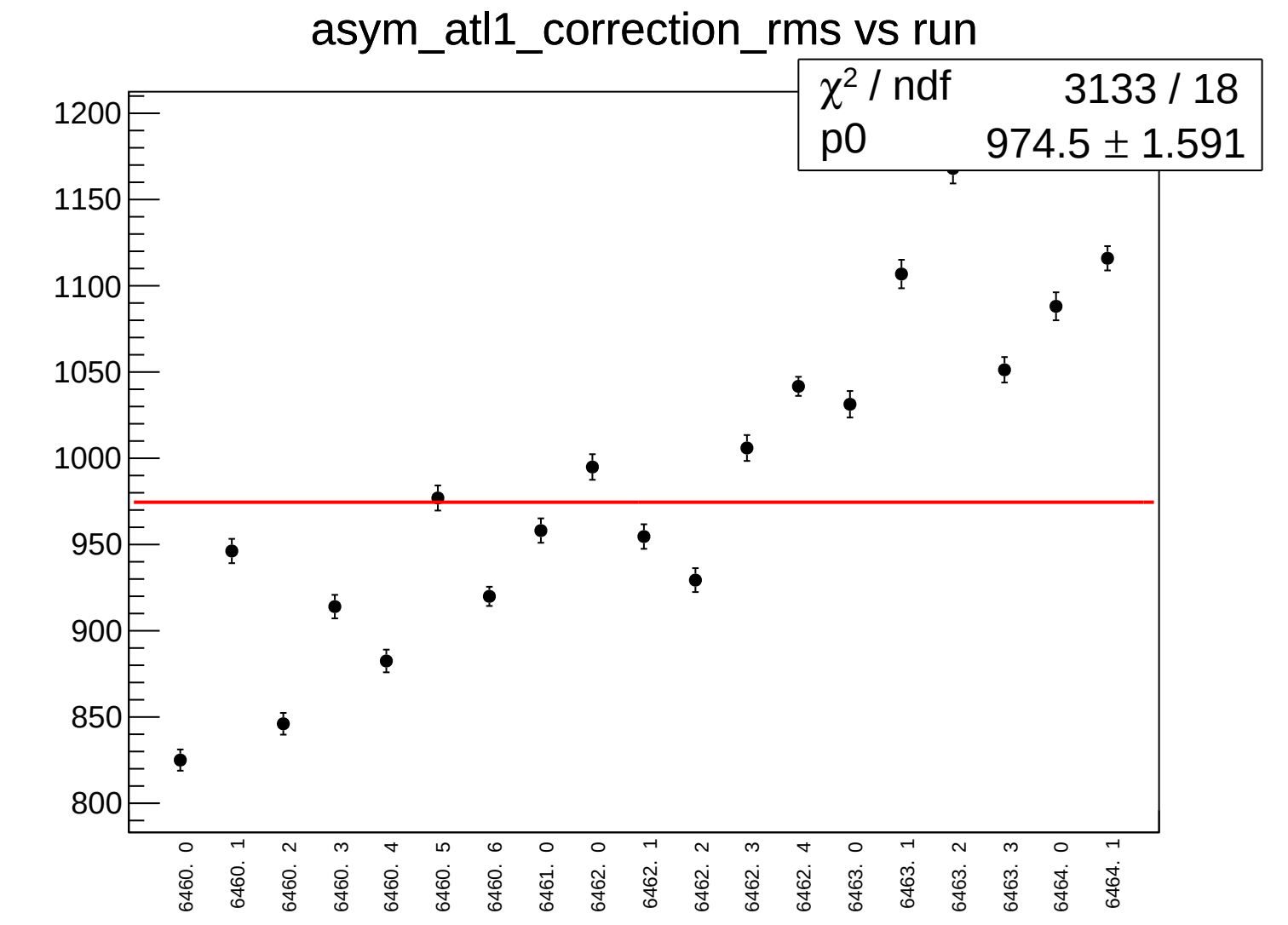

reg_asym_atl1_mean vs run
×10^3
χ² / ndf 15.1 / 18
p0 −6797 ± 5666
100
80
60
40
20
0
−20
−40
−60
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −51.21
Std Dev 61.55
2.5
2
1.5
1
0.5
0
−0.5
−1

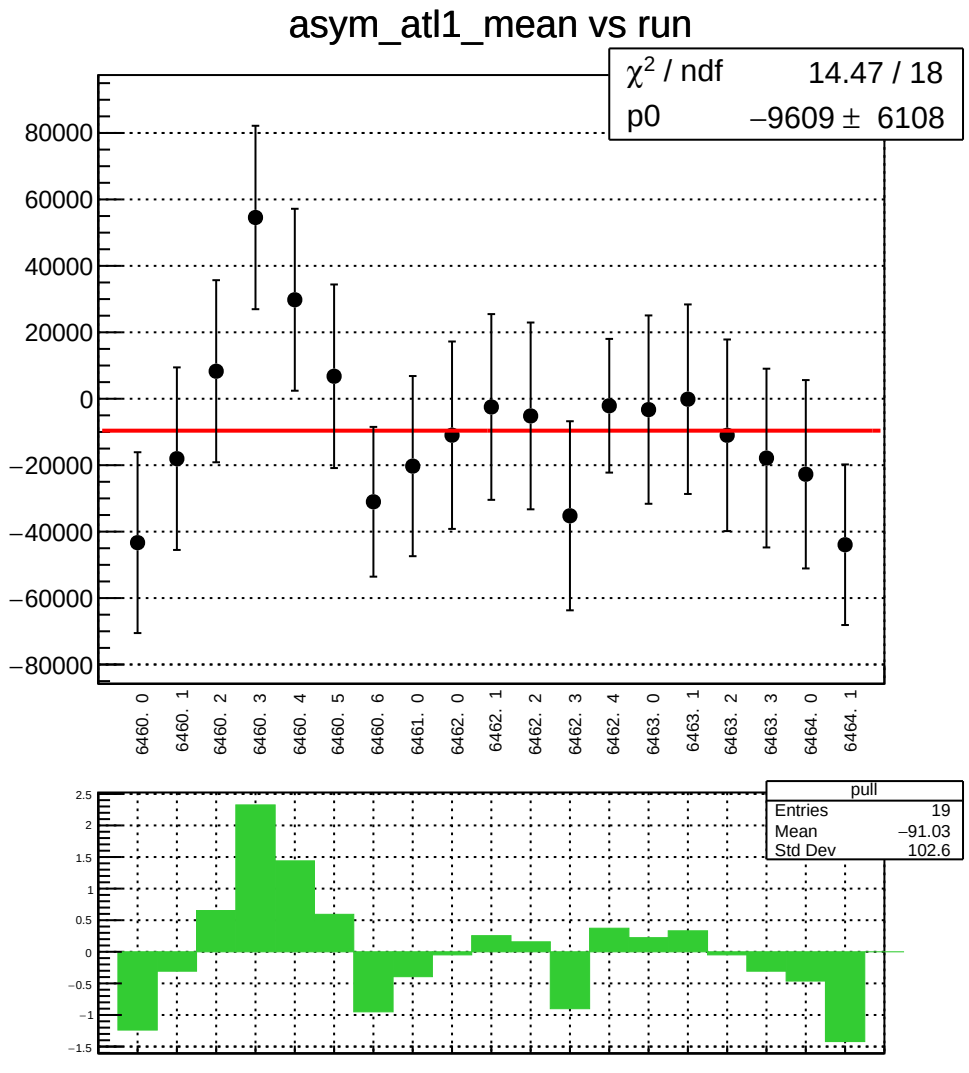

pull1D
Entries 19
Mean 0.02678
Std Dev 0.891
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

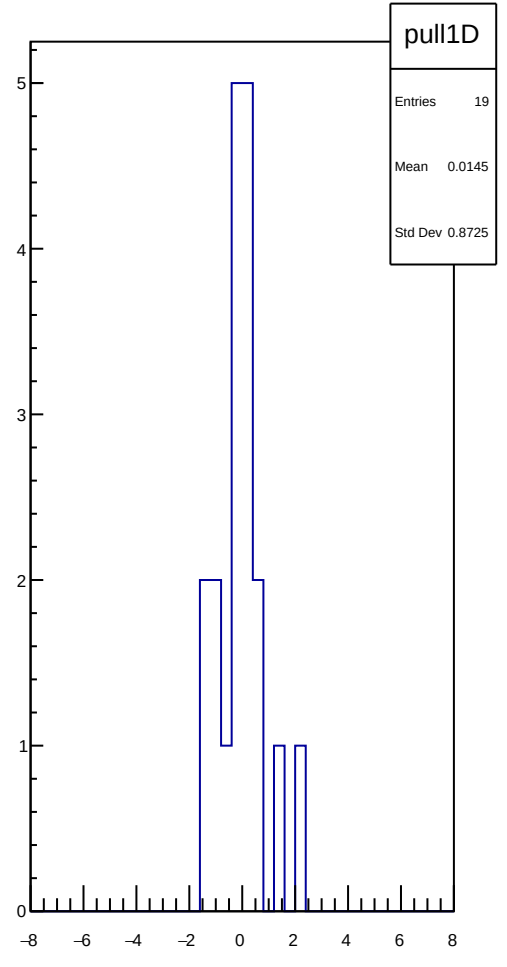

reg_asym_atl1_rms vs run
χ² / ndf 31.11 / 18
p0 2464 ± 4.006
2520
2500
2480
2460
2440
2420
2400
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

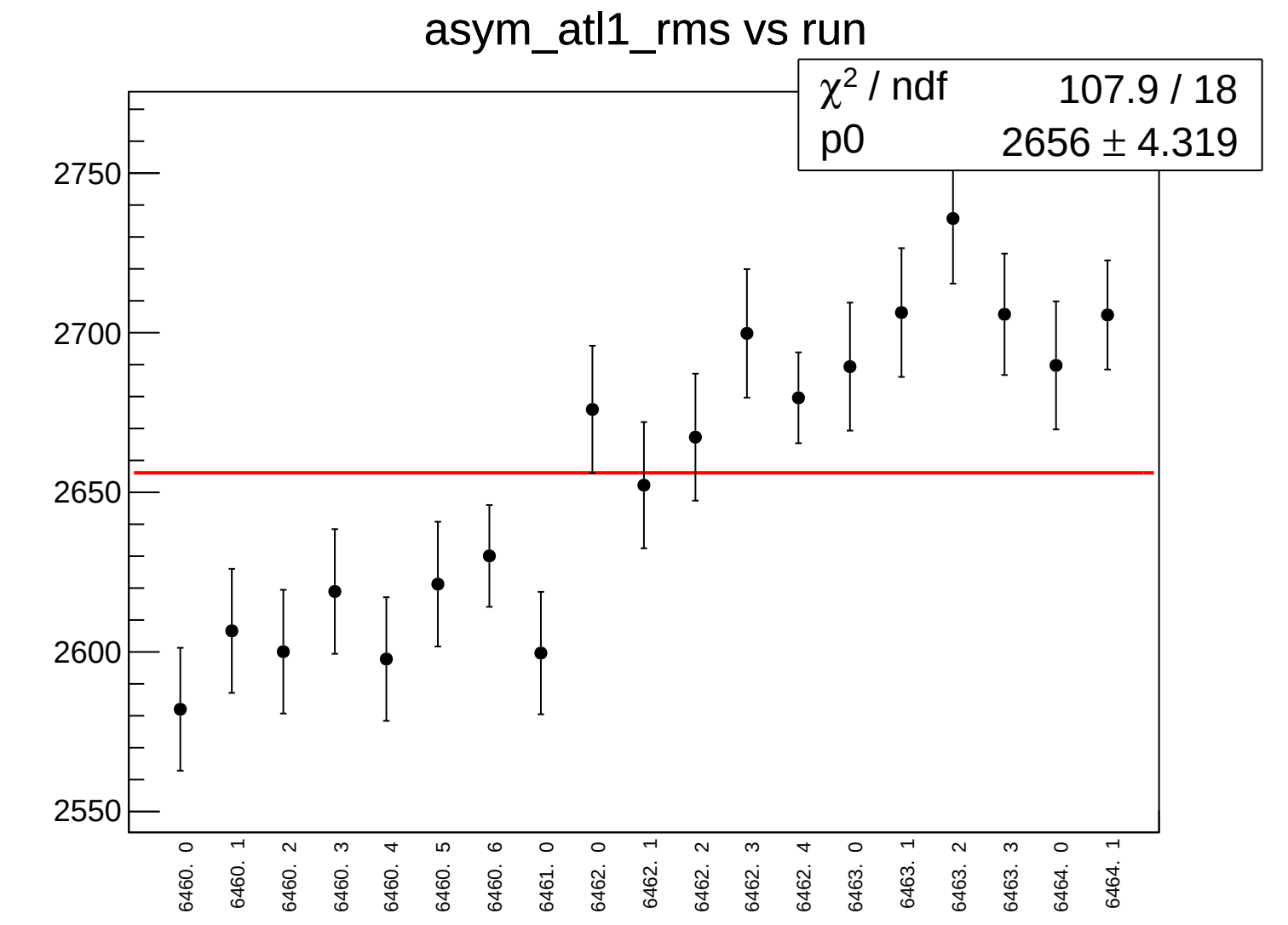

asym_atl1_correction_mean vs run
χ² / ndf 14.32 / 18
p0 3314 ± 2250
30000
20000
10000
0
−10000
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −158.1
Std Dev 147.2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

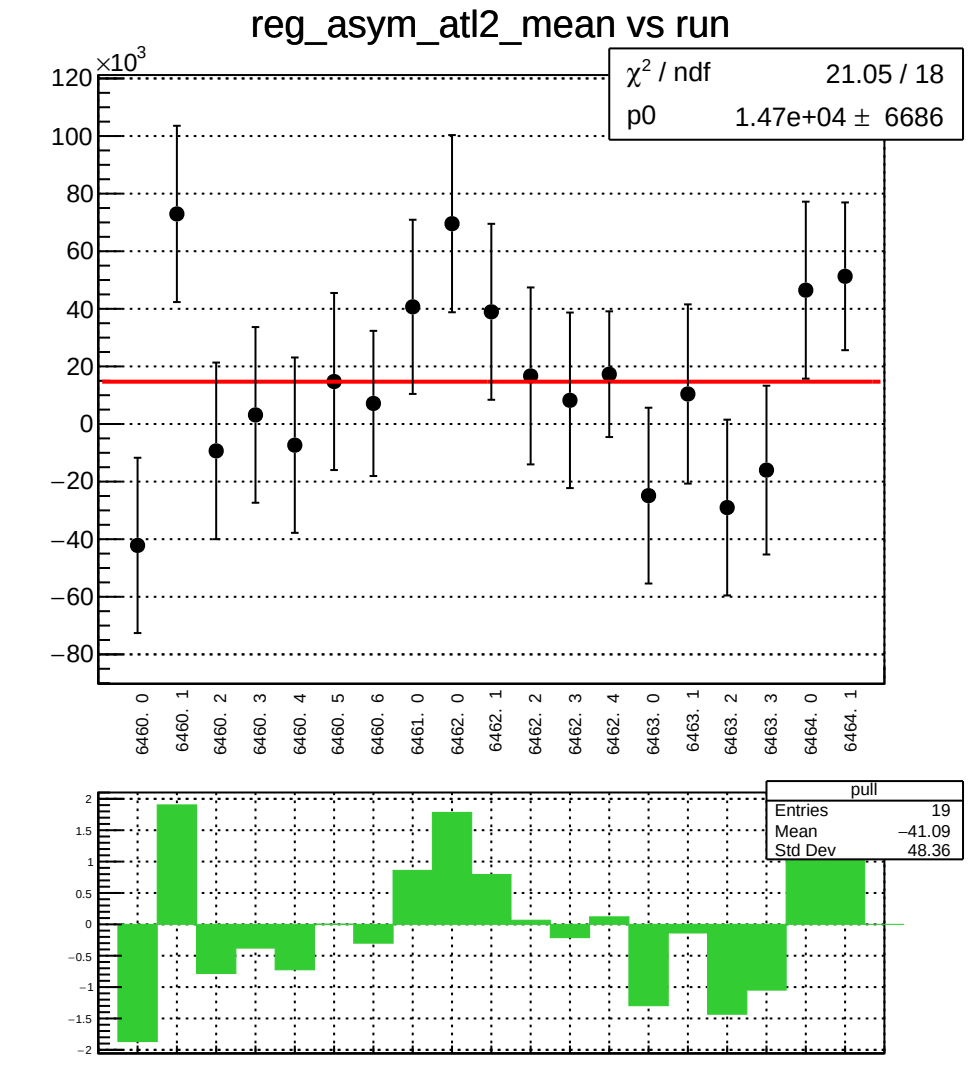

pull1D
Entries 19
Mean 0.001449
Std Dev 0.8681
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

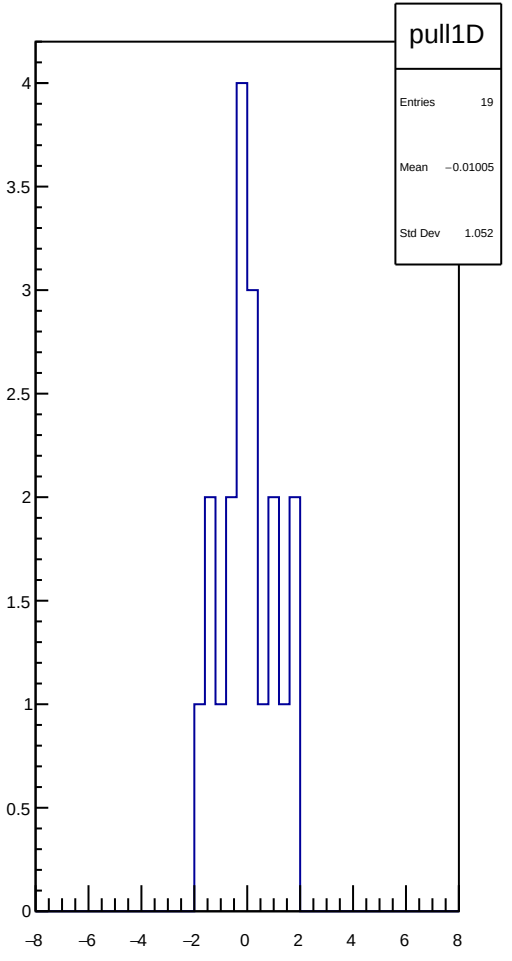

asym_atl1_correction_rms vs run
χ² / ndf 3133 / 18
p0 974.5 ± 1.591
1200
1150
1100
1050
1000
950
900
850
800
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

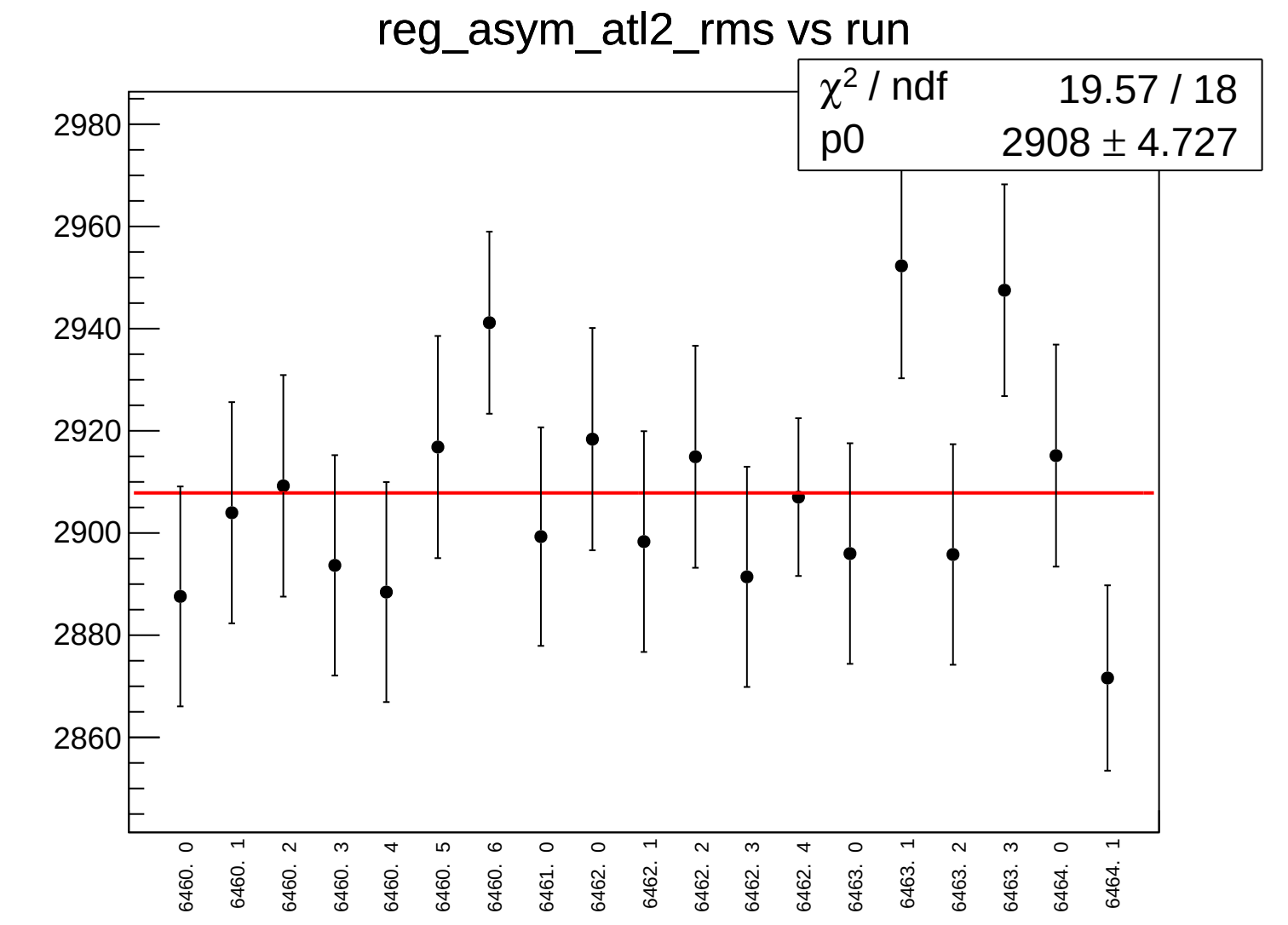

asym_atl1_mean vs run
χ² / ndf 14.47 / 18
p0 −9609 ± 6108
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −91.03
Std Dev 102.6
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

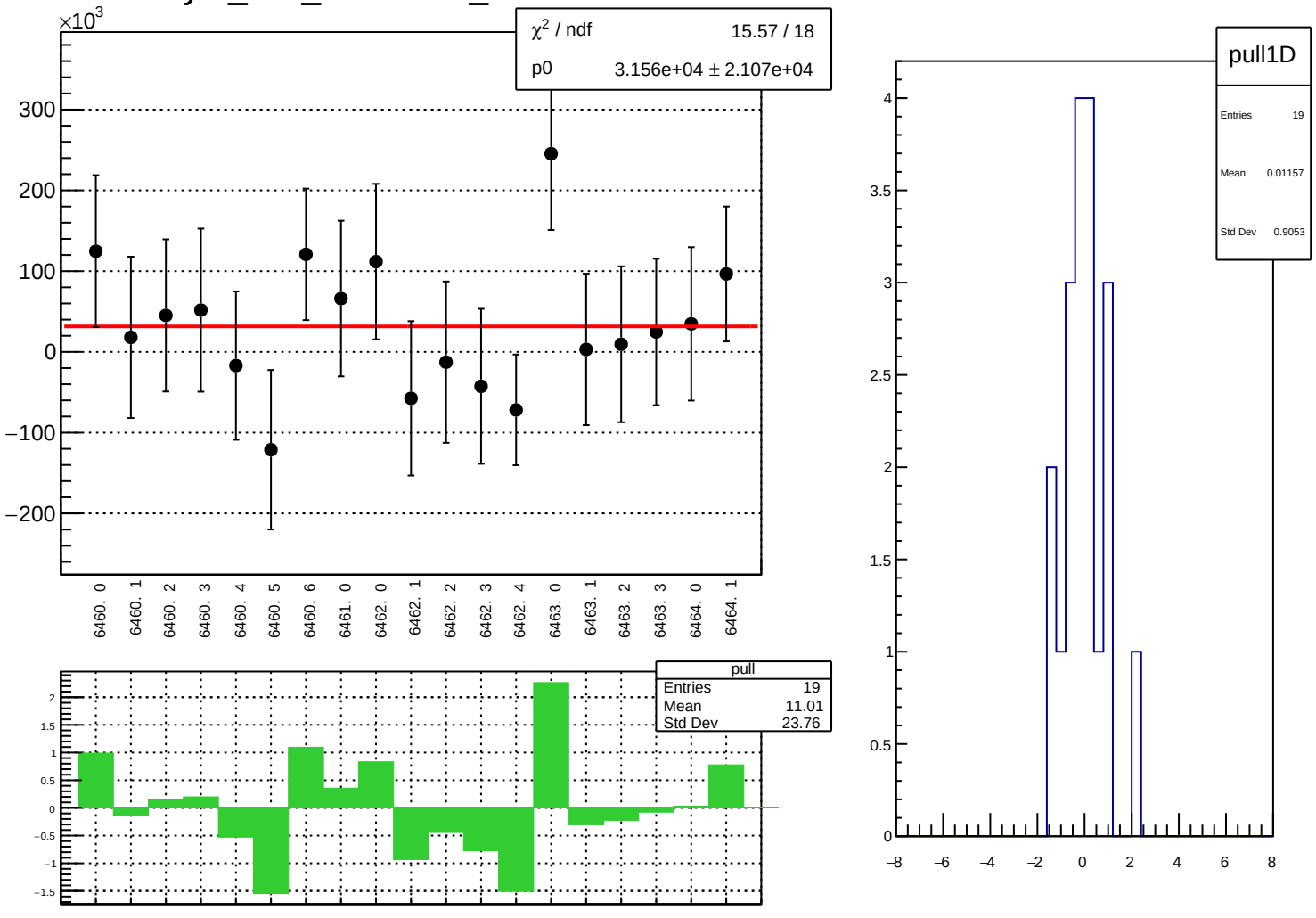

pull1D
Entries 19
Mean 0.0145
Std Dev 0.8725
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

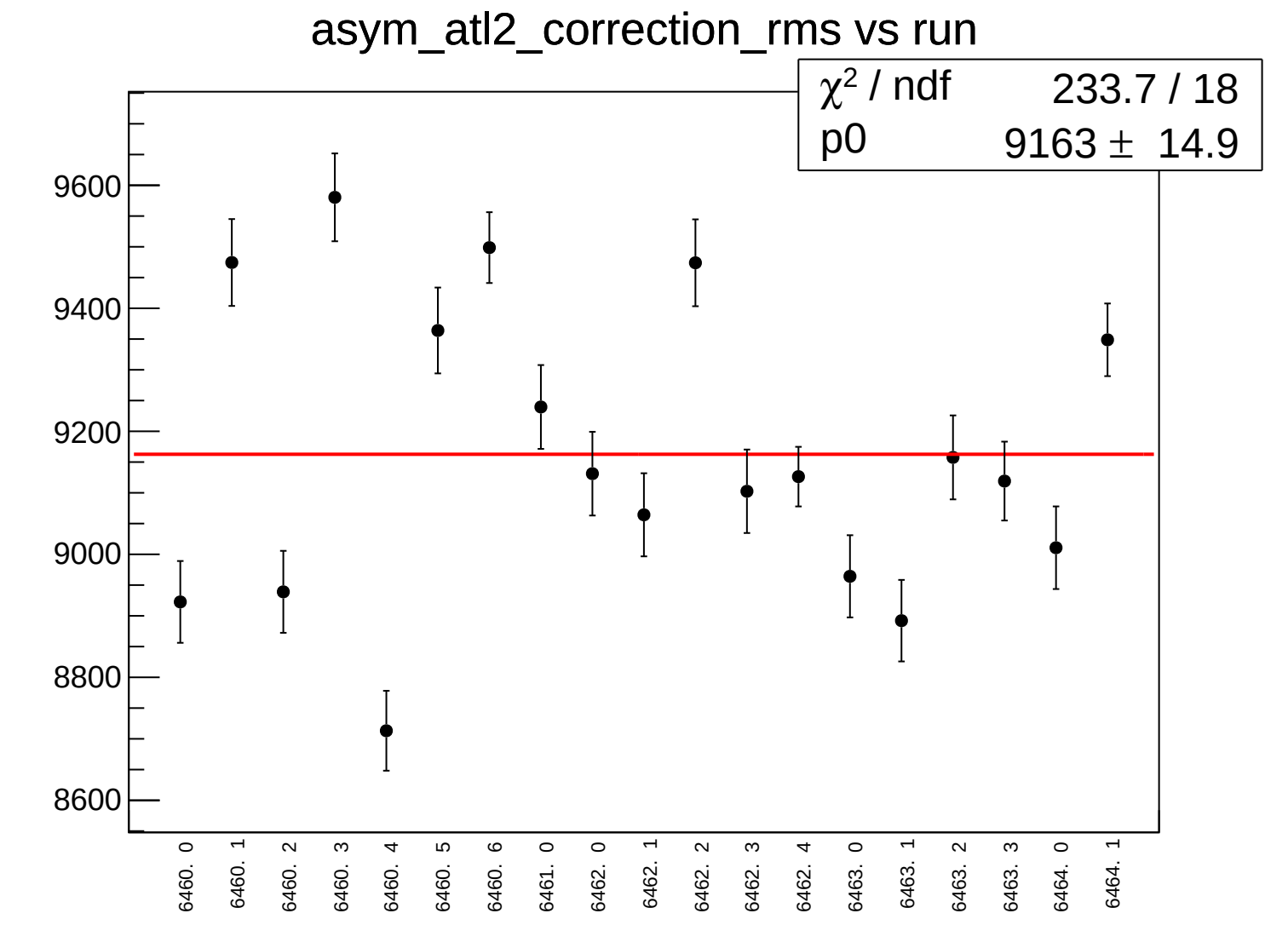

asym_atl1_rms vs run
χ² / ndf 107.9 / 18
p0 2656 ± 4.319
2750
2700
2650
2600
2550
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

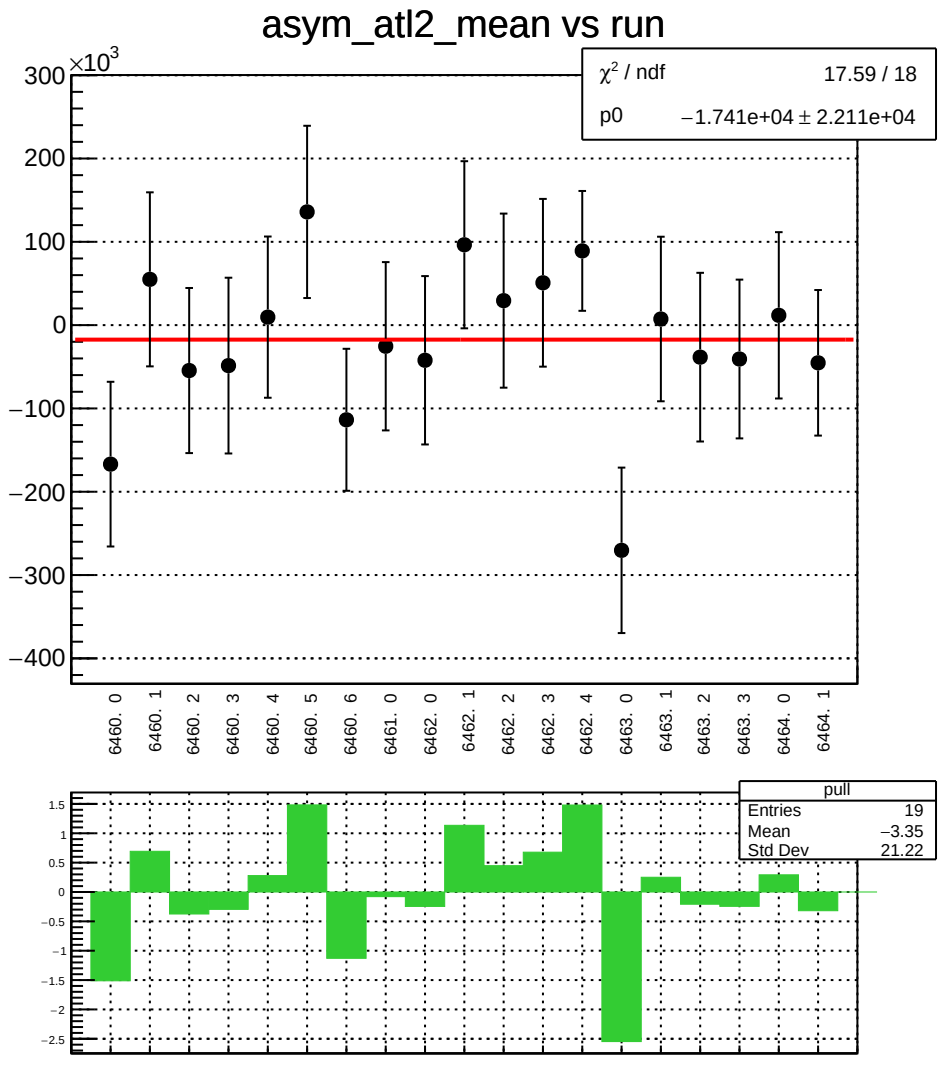

reg_asym_atl2_mean vs run
×10^3
χ² / ndf 21.05 / 18
p0 1.47e+04 ± 6686
120
100
80
60
40
20
0
−20
−40
−60
−80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −41.09
Std Dev 48.36
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

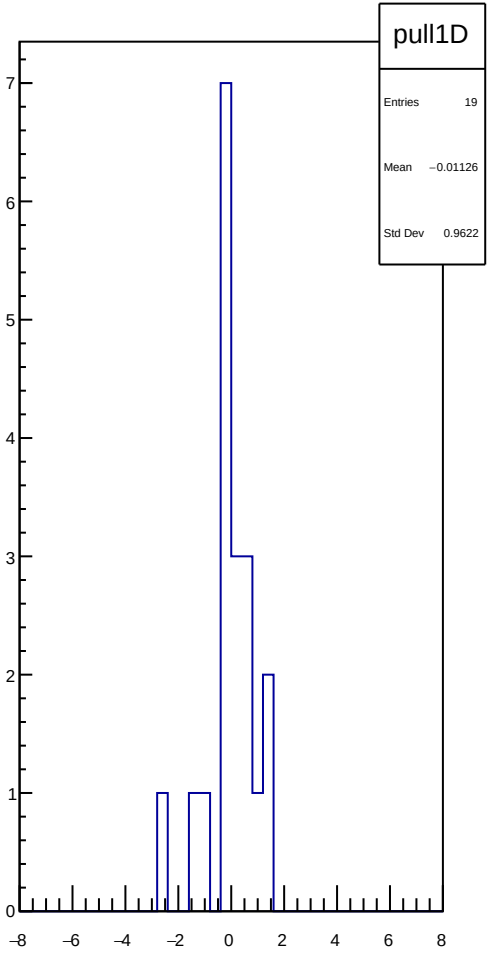

pull1D
Entries 19
Mean −0.01005
Std Dev 1.052
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

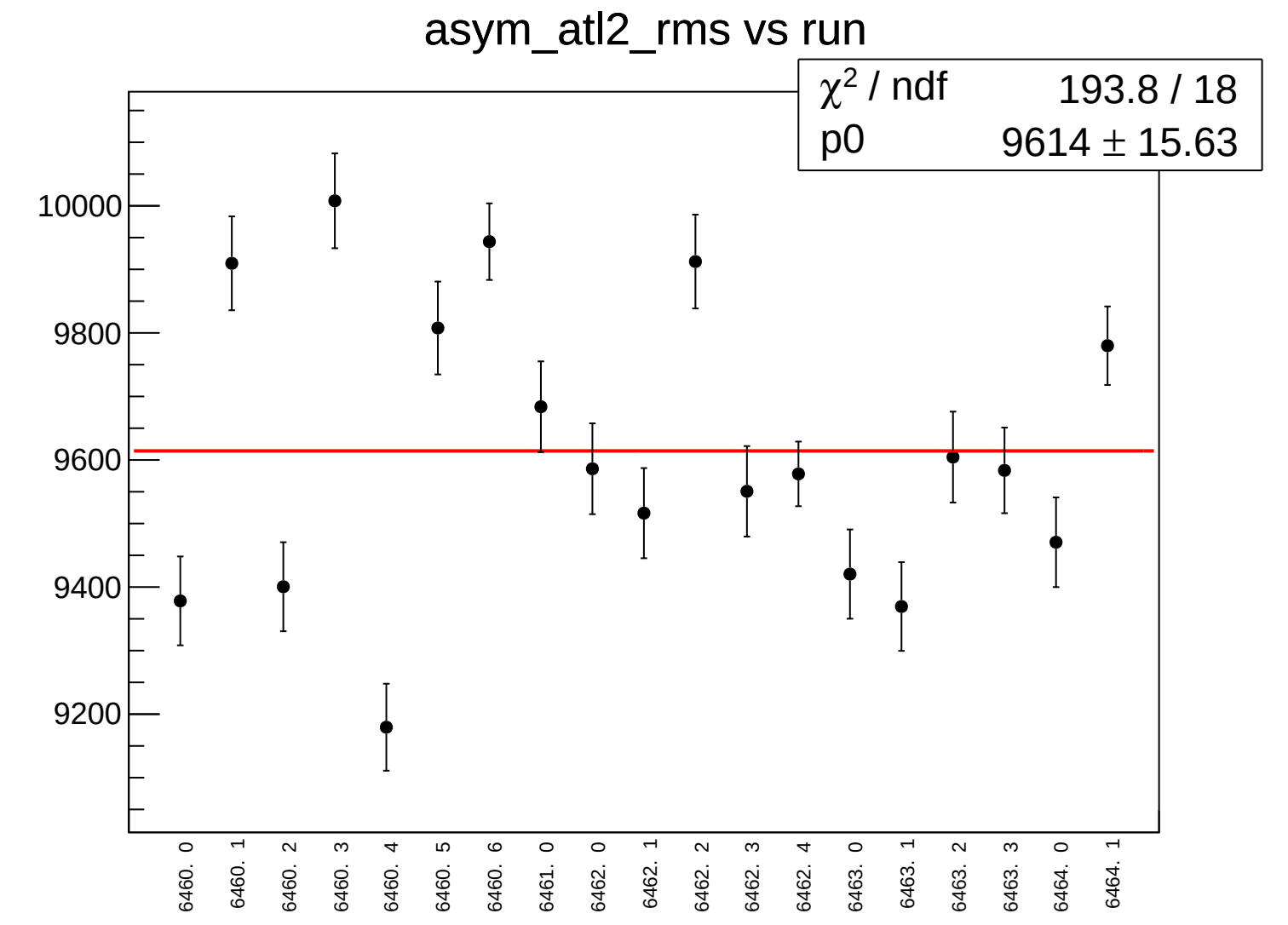

reg_asym_atl2_rms vs run
χ² / ndf 19.57 / 18
p0 2908 ± 4.727
2980
2960
2940
2920
2900
2880
2860
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

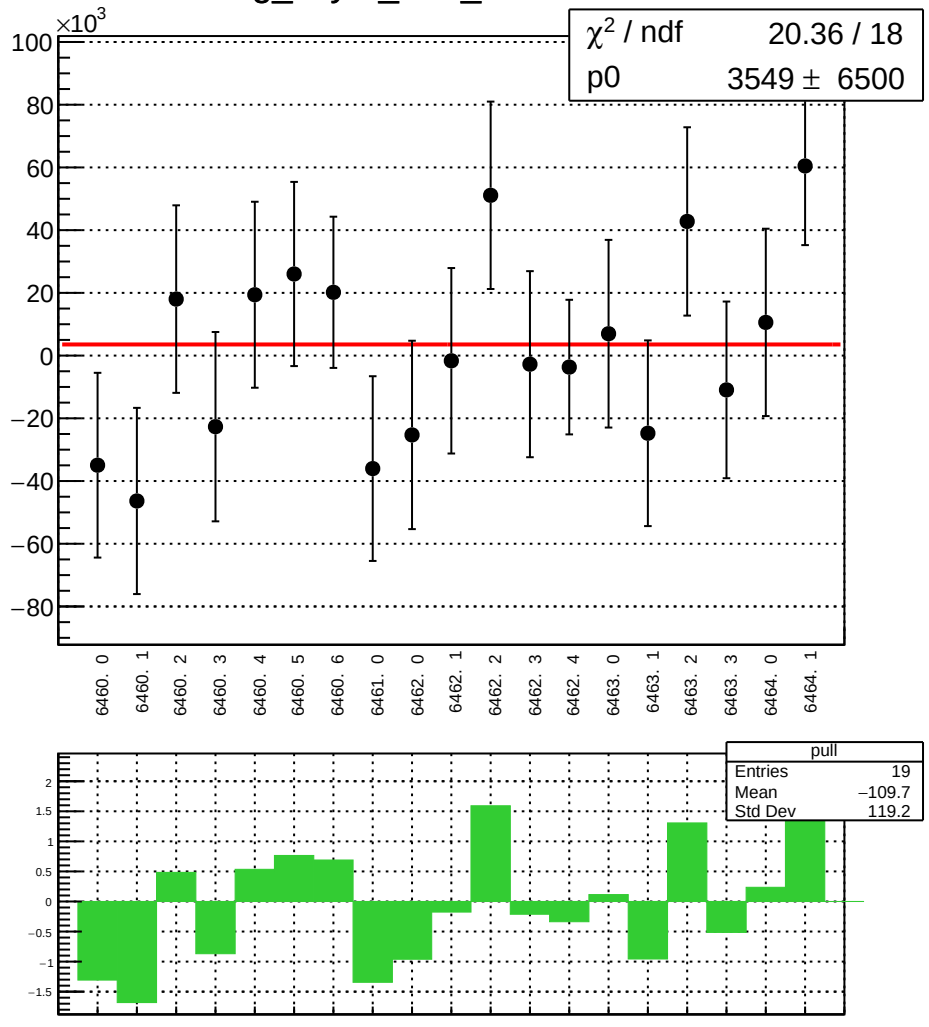

asym_atl2_correction_mean vs run
×10^3
χ² / ndf 15.57 / 18
p0 3.156e+04 ± 2.107e+04
300
200
100
0
−100
−200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 11.01
Std Dev 23.76
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 19
Mean 0.01157
Std Dev 0.9053
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

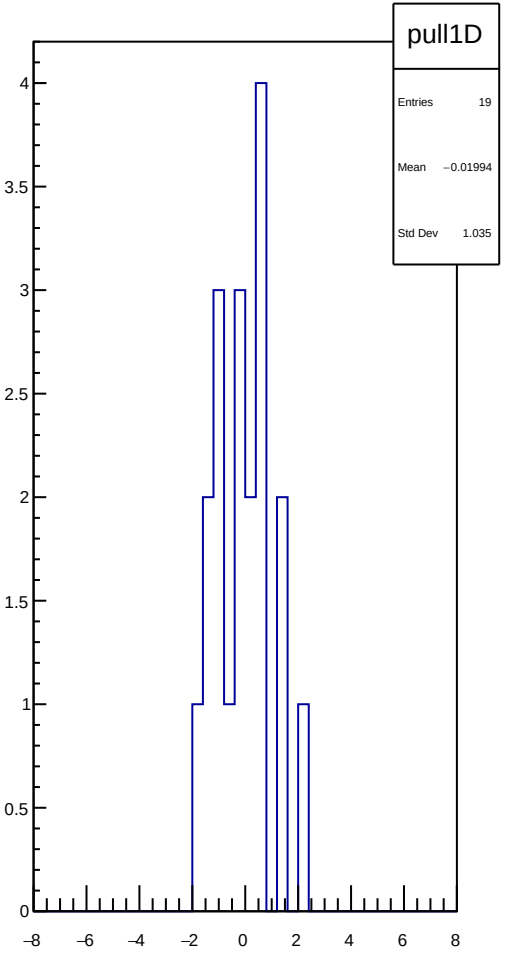

asym_atl2_correction_rms vs run
χ² / ndf 233.7 / 18
p0 9163 ± 14.9
9600
9400
9200
9000
8800
8600
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

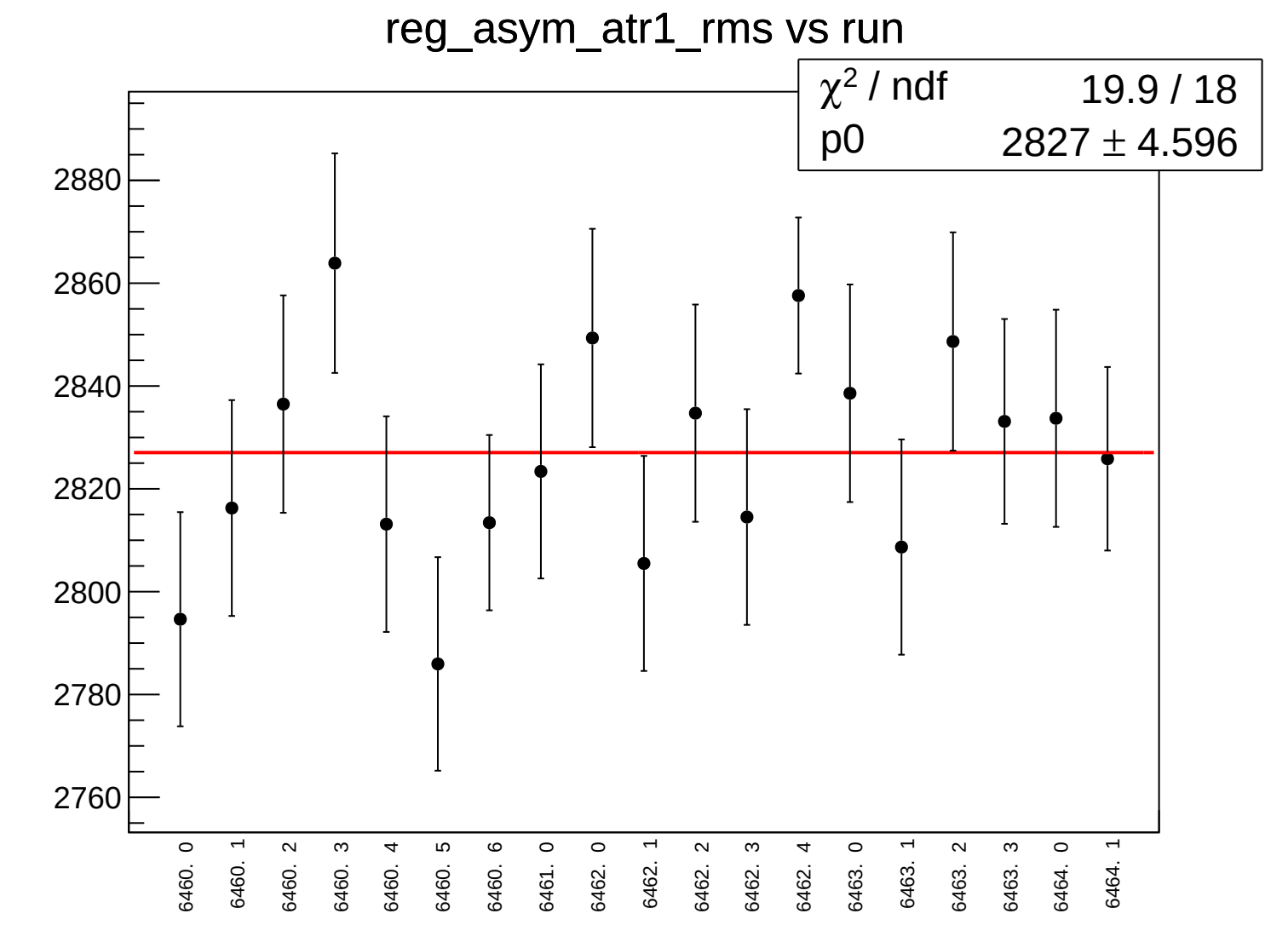

asym_atl2_mean vs run
×10^3
χ² / ndf 17.59 / 18
p0 −1.741e+04 ± 2.211e+04
300
200
100
0
−100
−200
−300
−400
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −3.35
Std Dev 21.22
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

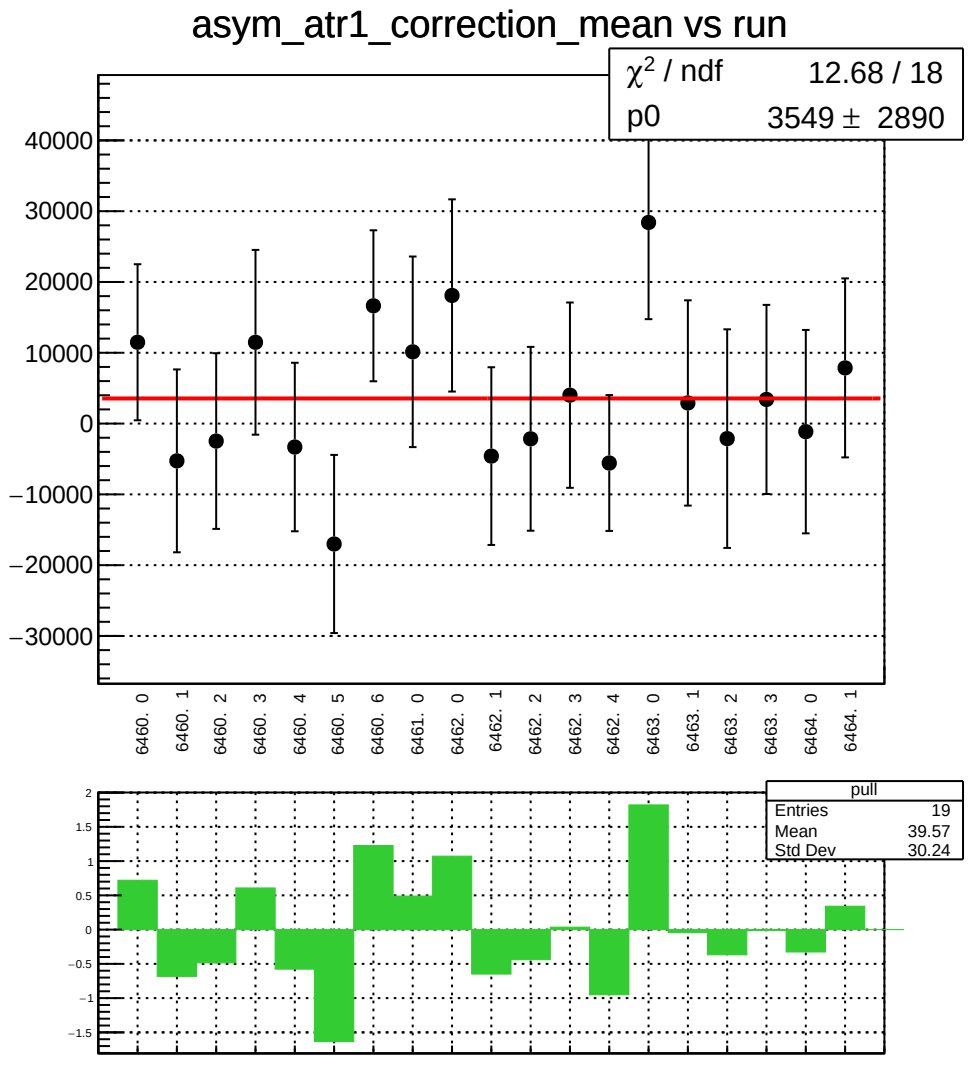

pull1D
Entries 19
Mean −0.01126
Std Dev 0.9622
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

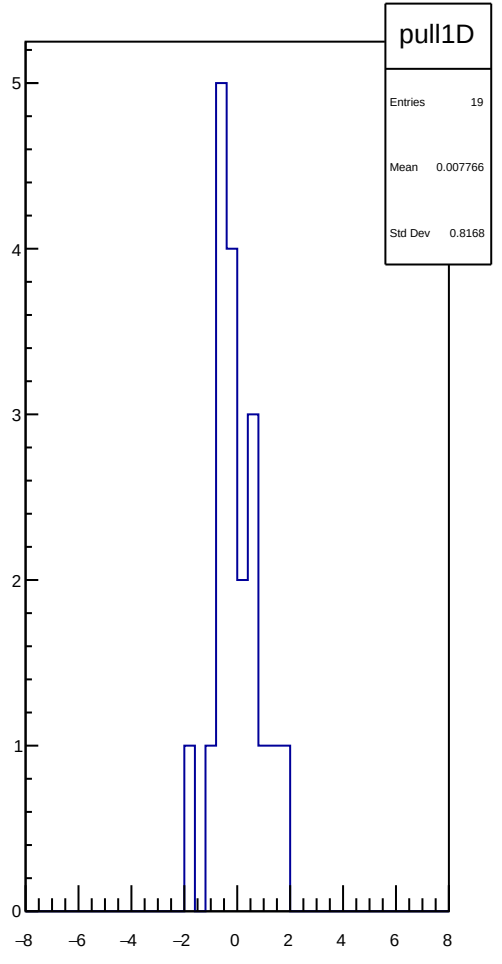

asym_atl2_rms vs run
χ² / ndf 193.8 / 18
p0 9614 ± 15.63
10000
9800
9600
9400
9200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

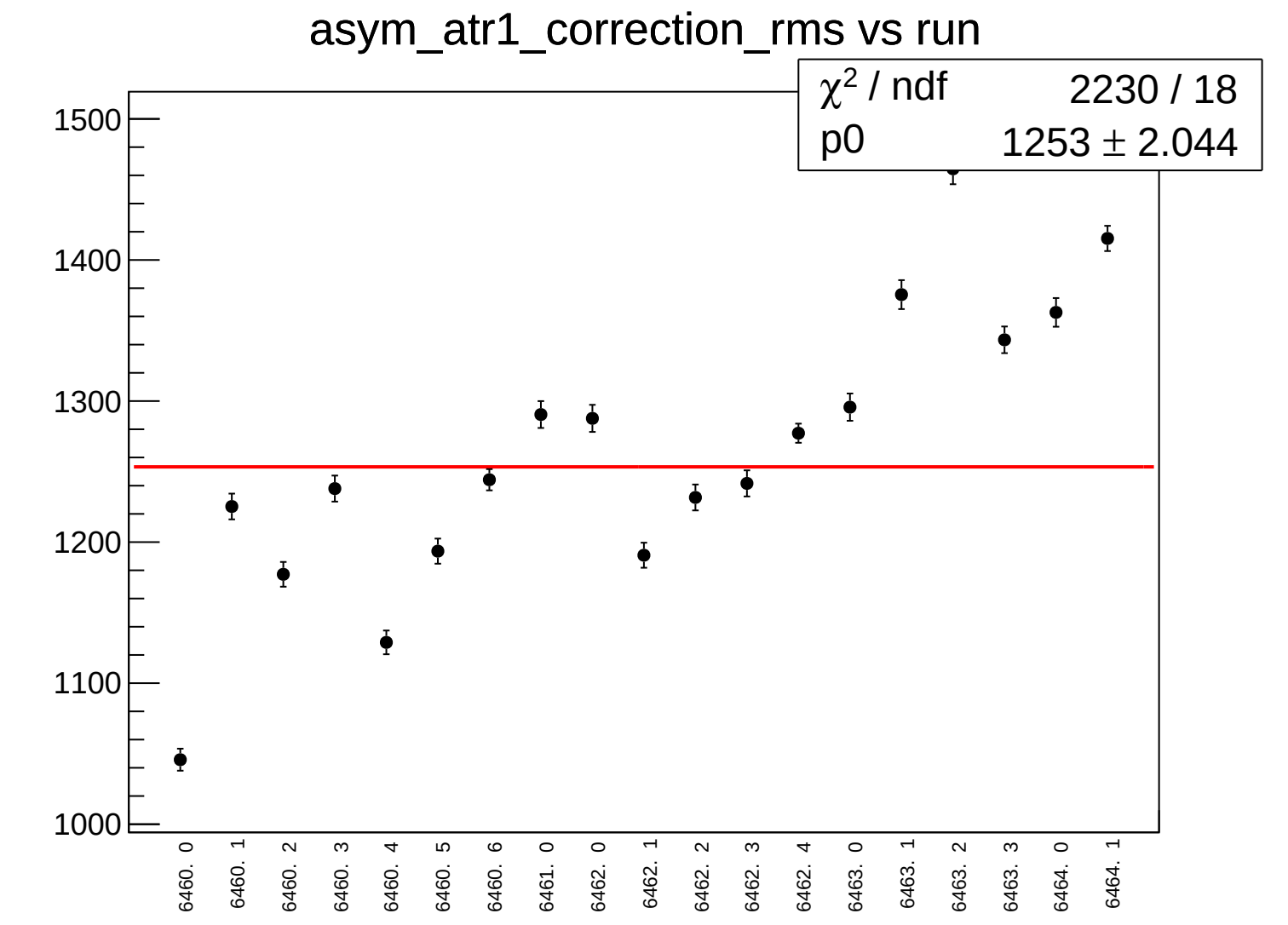

reg_asym_atr1_mean vs run
×10^3
χ^2 / ndf 20.36 / 18
p0 3549 ± 6500
100
80
60
40
20
0
−20
−40
−60
−80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −109.7
Std Dev 119.2
2
1.5
1
0.5
0
−0.5
−1
−1.5

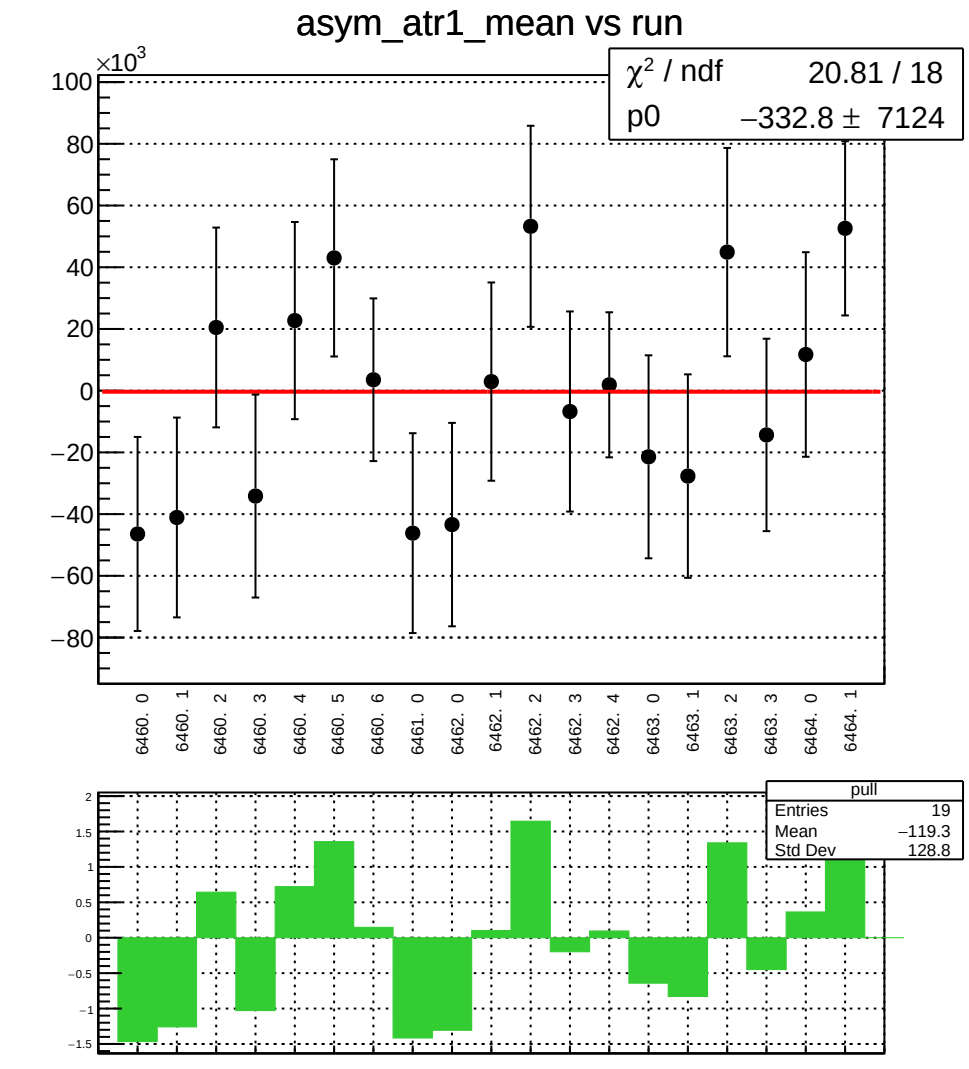

pull1D
Entries 19
Mean −0.01994
Std Dev 1.035
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

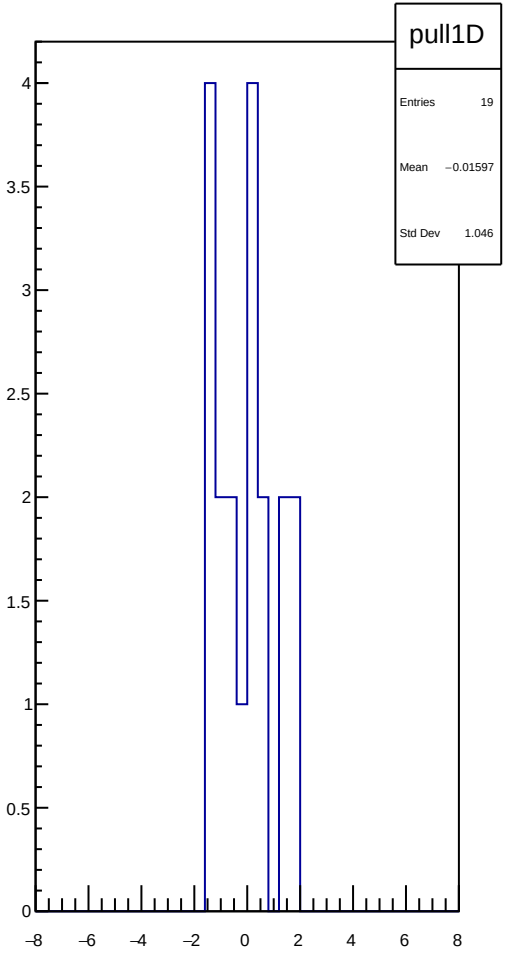

reg_asym_atr1_rms vs run
χ² / ndf 19.9 / 18
p0 2827 ± 4.596
2880
2860
2840
2820
2800
2780
2760
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

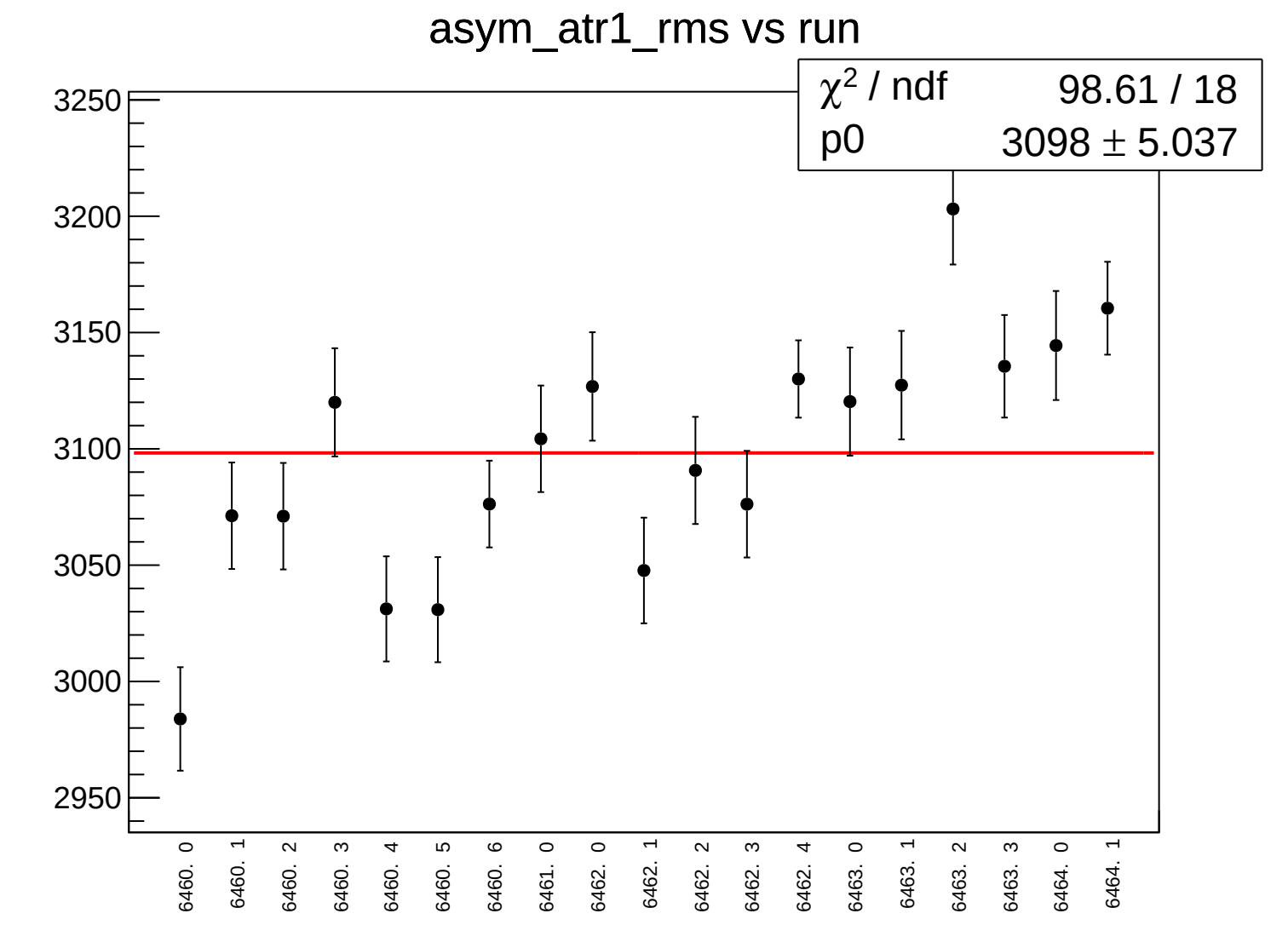

asym_atr1_correction_mean vs run
χ² / ndf 12.68 / 18
p0 3549 ± 2890
40000
30000
20000
10000
0
−10000
−20000
−30000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 39.57
Std Dev 30.24
2
1.5
1
0.5
0
−0.5
−1
−1.5

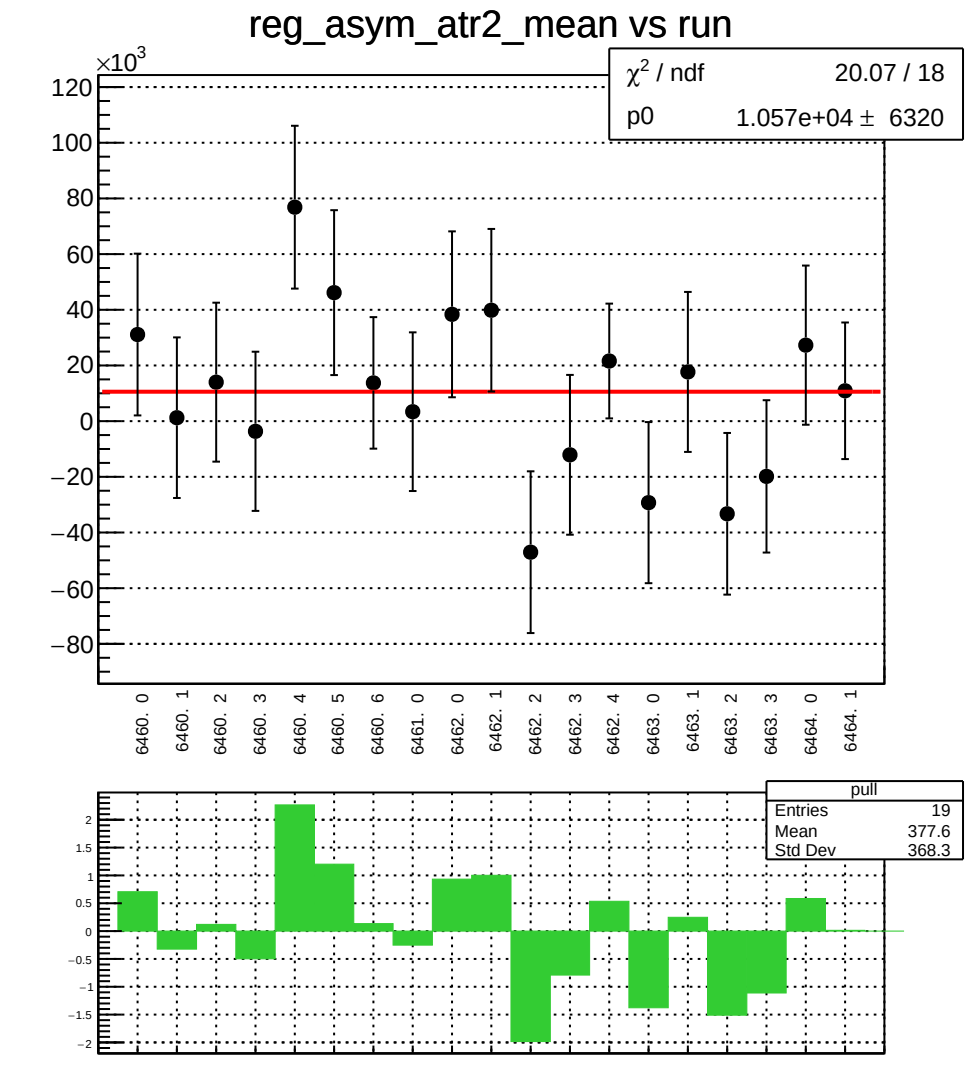

pull1D
Entries 19
Mean 0.007766
Std Dev 0.8168
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

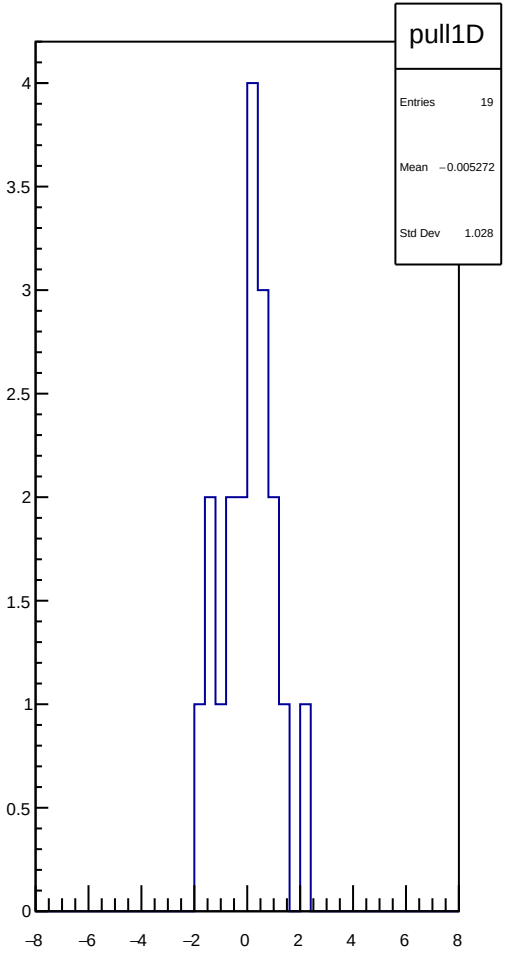

asym_atr1_correction_rms vs run
χ² / ndf 2230 / 18
p0 1253 ± 2.044
1500
1400
1300
1200
1100
1000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

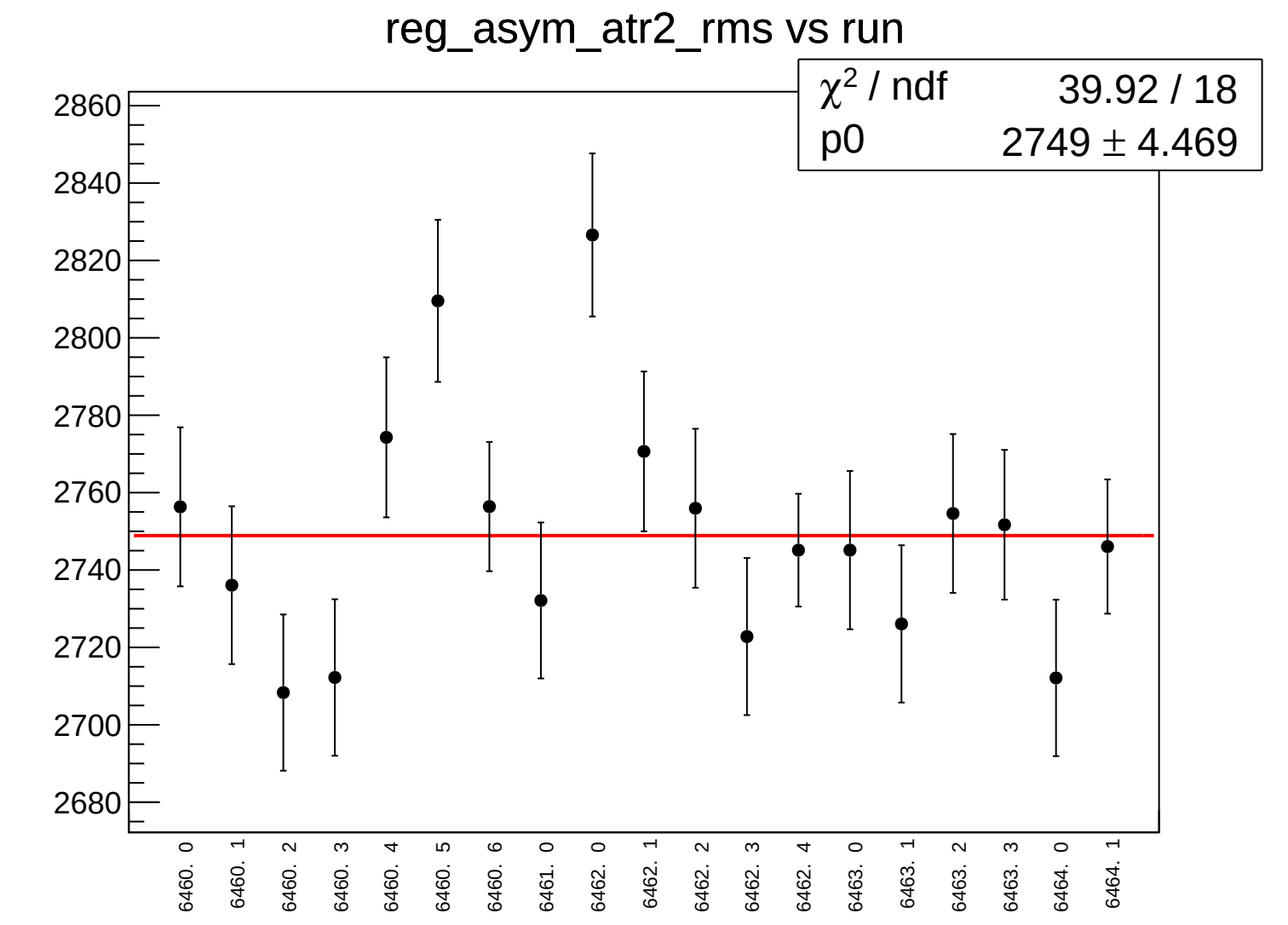

asym_atr1_mean vs run
×10^3
χ² / ndf 20.81 / 18
p0 −332.8 ± 7124
100
80
60
40
20
0
−20
−40
−60
−80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −119.3
Std Dev 128.8
2
1.5
1
0.5
0
−0.5
−1
−1.5

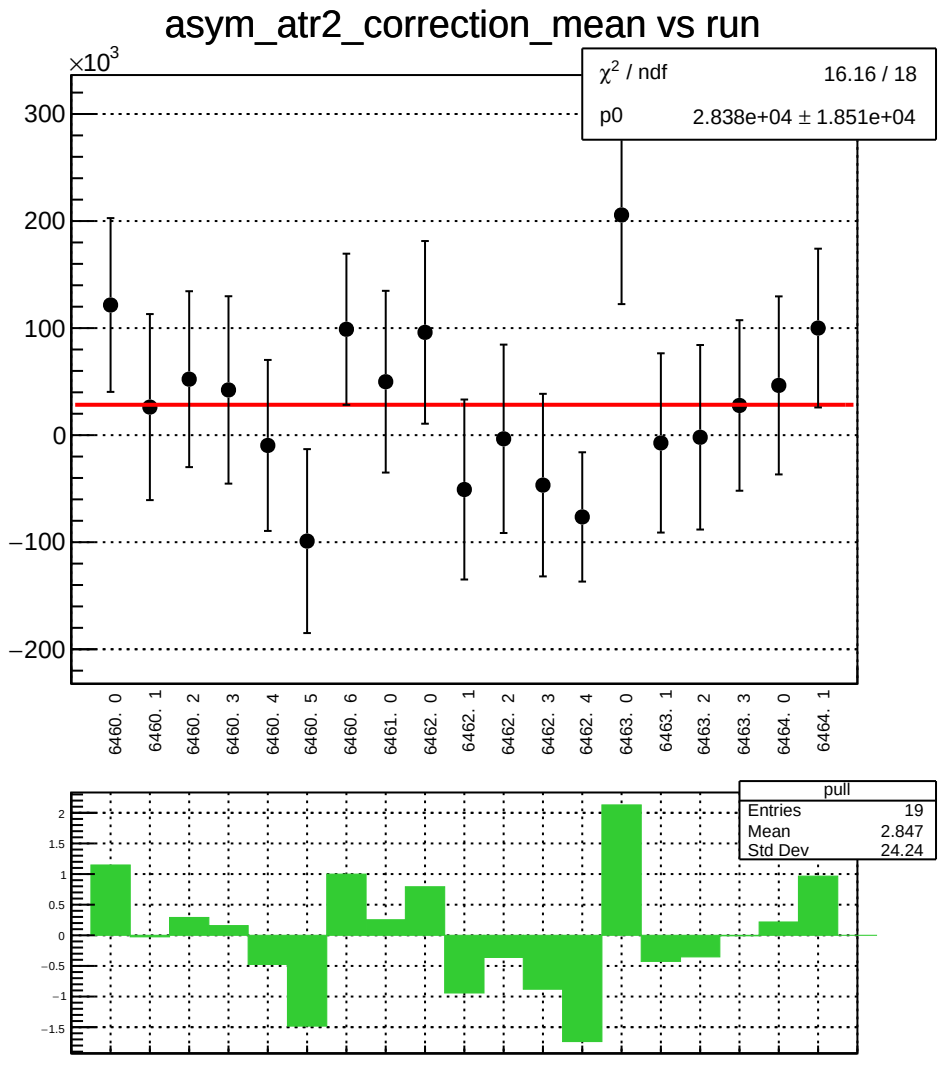

pull1D
Entries 19
Mean −0.01597
Std Dev 1.046
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

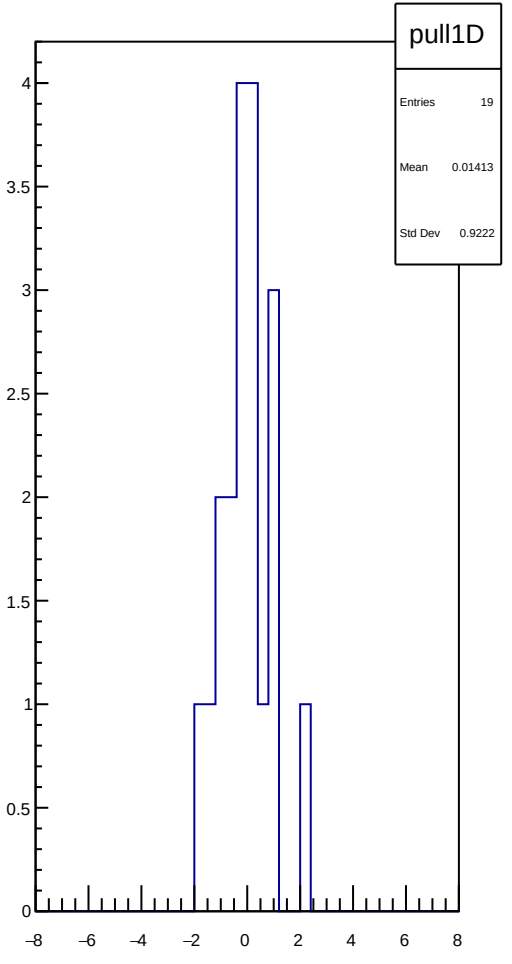

asym_atr1_rms vs run
χ² / ndf 98.61 / 18
p0 3098 ± 5.037
3250
3200
3150
3100
3050
3000
2950
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

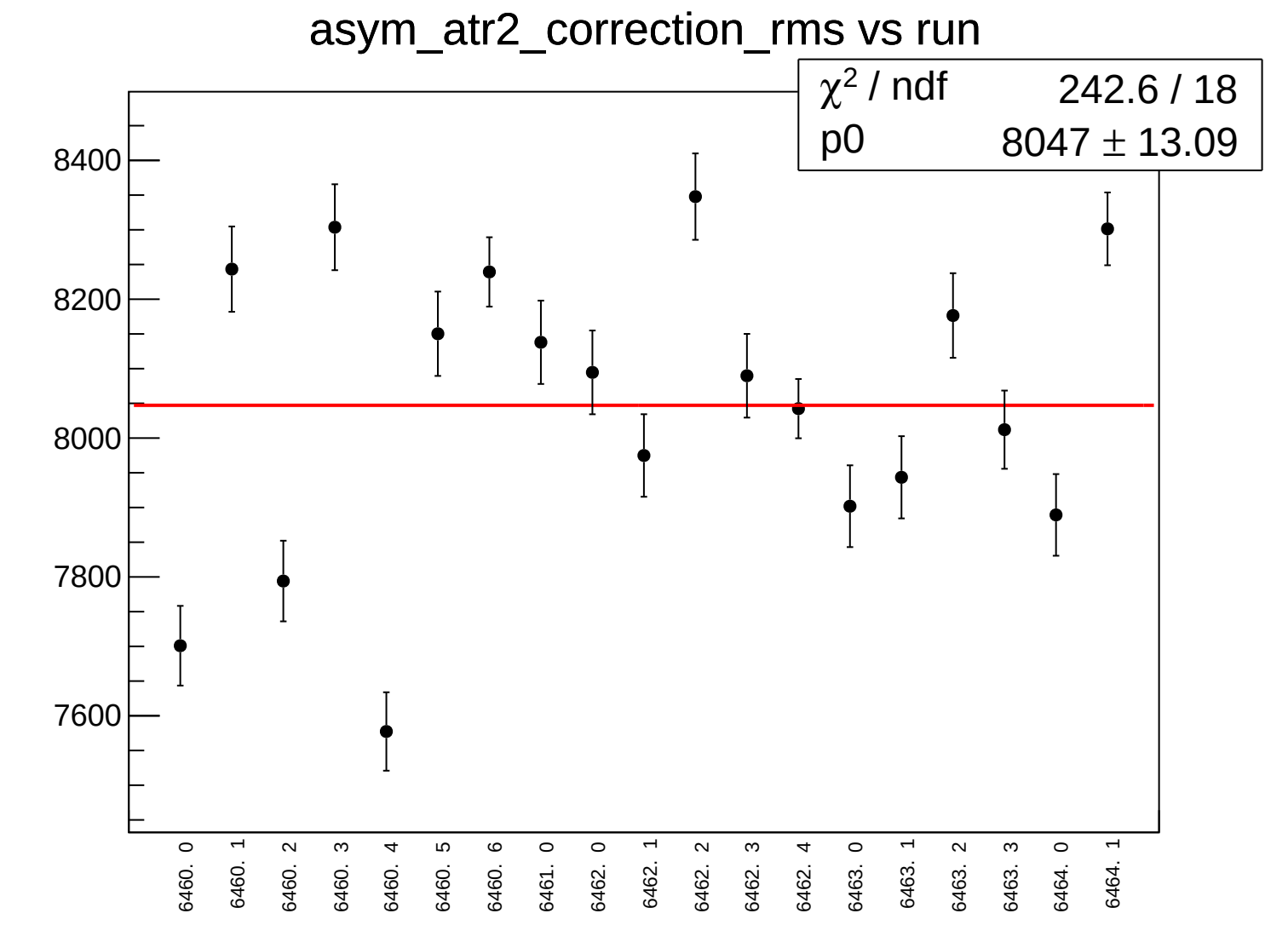

reg_asym_atr2_mean vs run
×10^3
χ² / ndf 20.07 / 18
p0 1.057e+04 ± 6320
120
100
80
60
40
20
0
−20
−40
−60
−80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 377.6
Std Dev 368.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

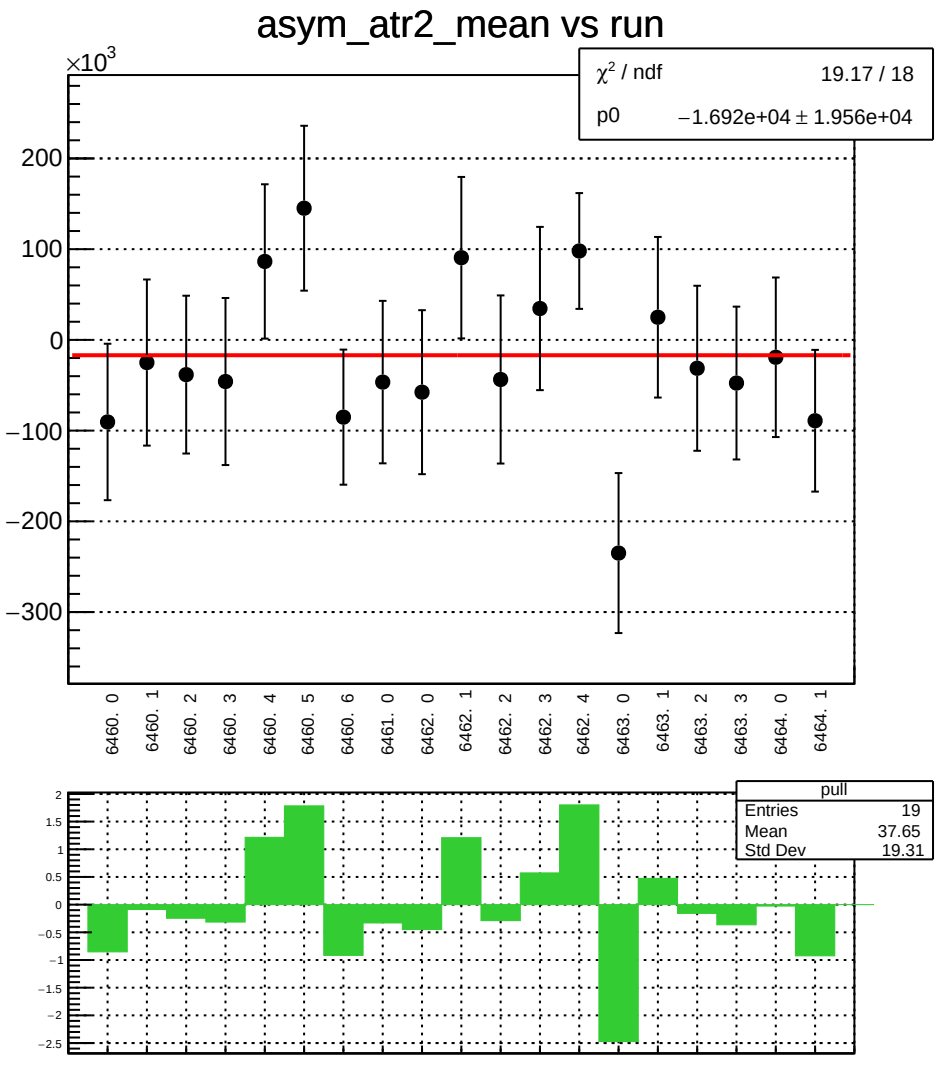

pull1D
Entries 19
Mean −0.005272
Std Dev 1.028
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

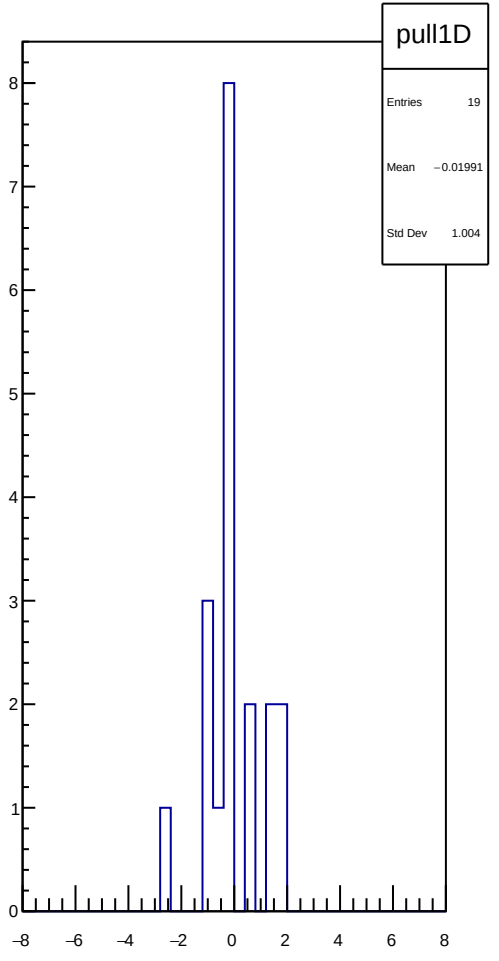

reg_asym_atr2_rms vs run
χ² / ndf 39.92 / 18
p0 2749 ± 4.469
2860
2840
2820
2800
2780
2760
2740
2720
2700
2680
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

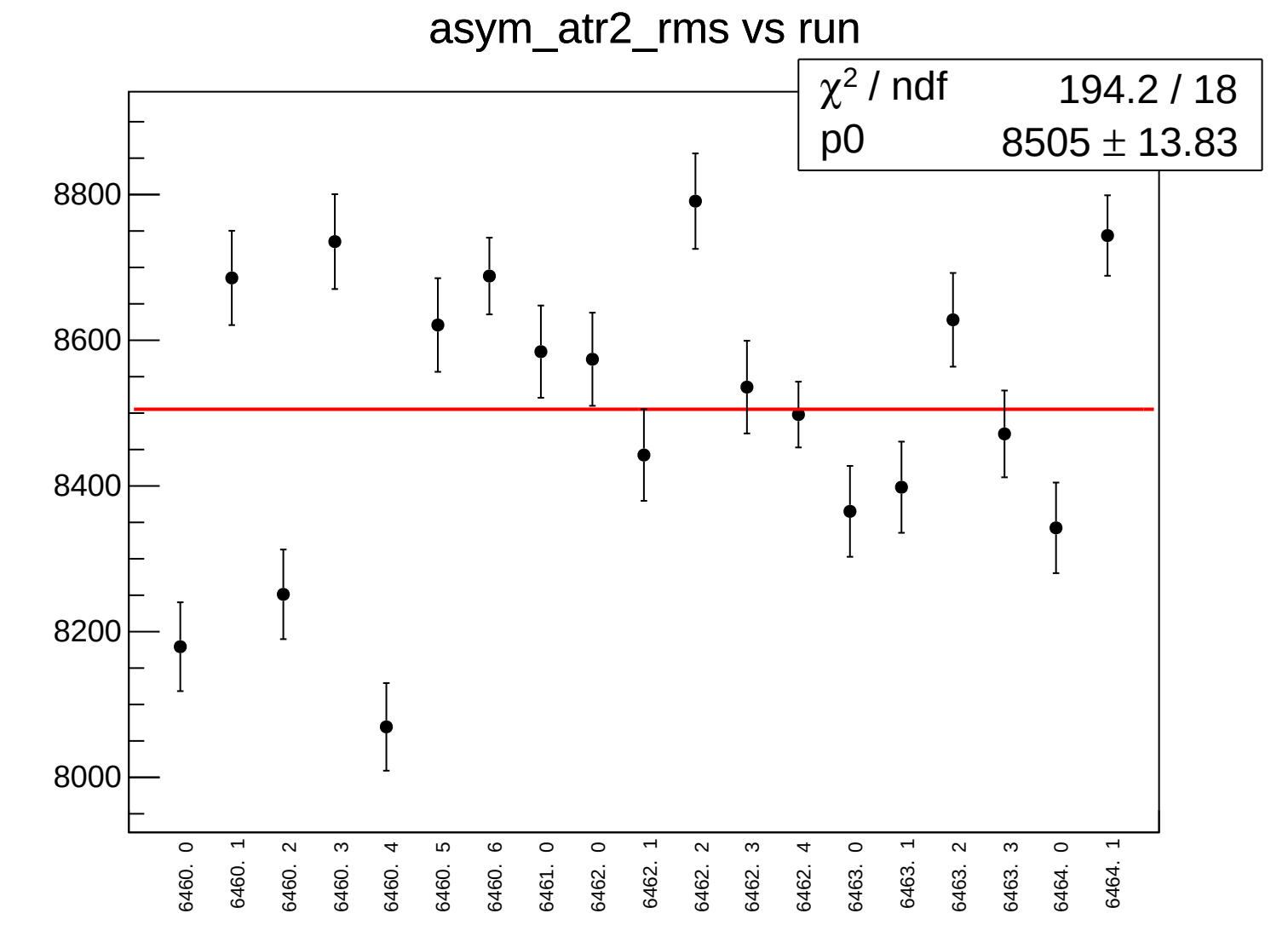

asym_atr2_correction_mean vs run
×10^3
χ² / ndf 16.16 / 18
p0 2.838e+04 ± 1.851e+04
300
200
100
0
−100
−200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 2.847
Std Dev 24.24
2
1.5
1
0.5
0
−0.5
−1
−1.5

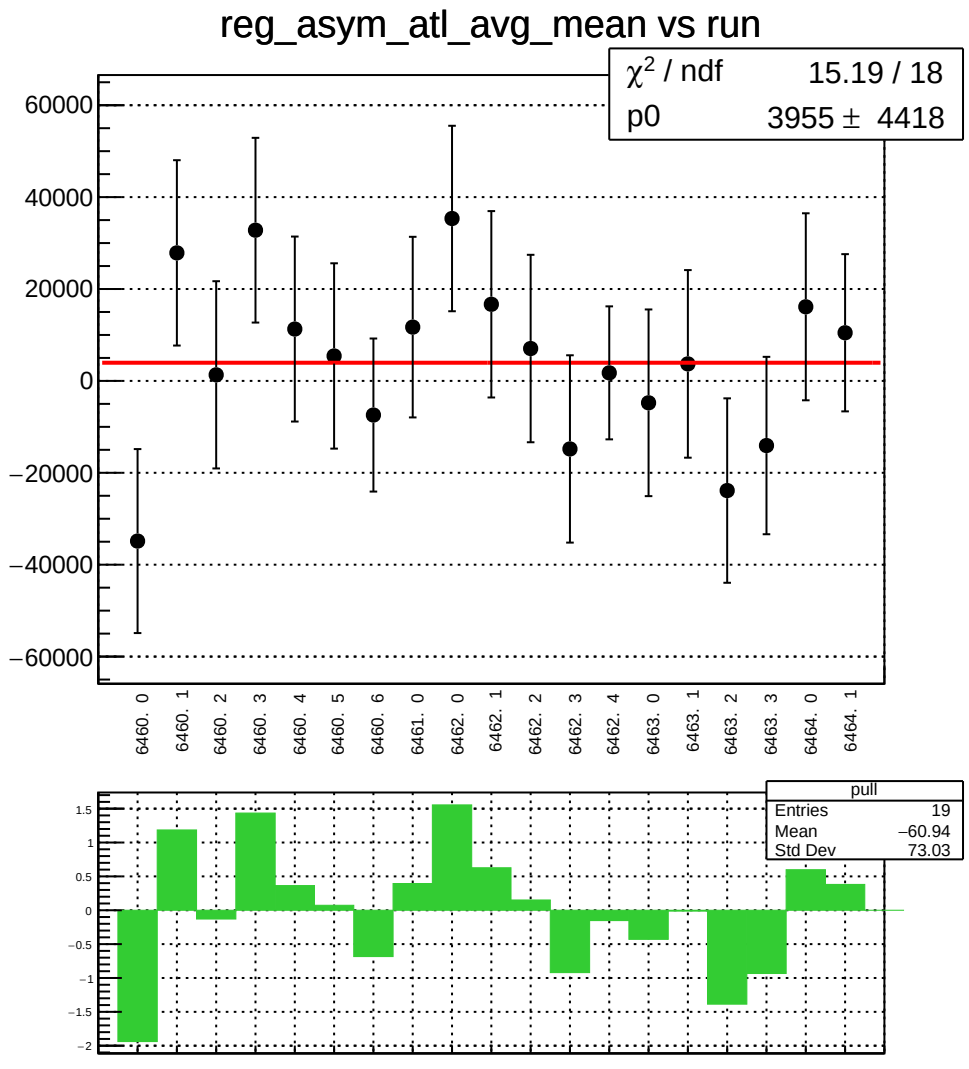

pull1D
Entries 19
Mean 0.01413
Std Dev 0.9222
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

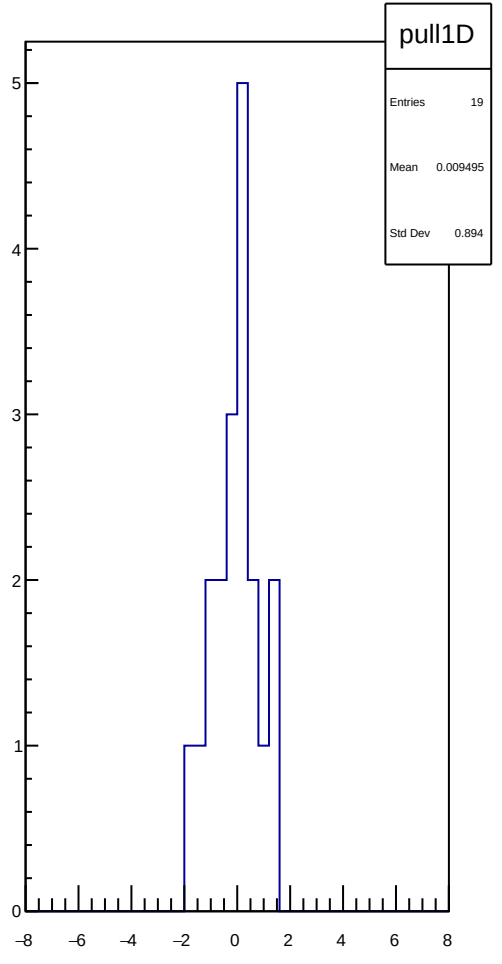

asym_atr2_correction_rms vs run
χ² / ndf 242.6 / 18
p0 8047 ± 13.09
8400
8200
8000
7800
7600
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

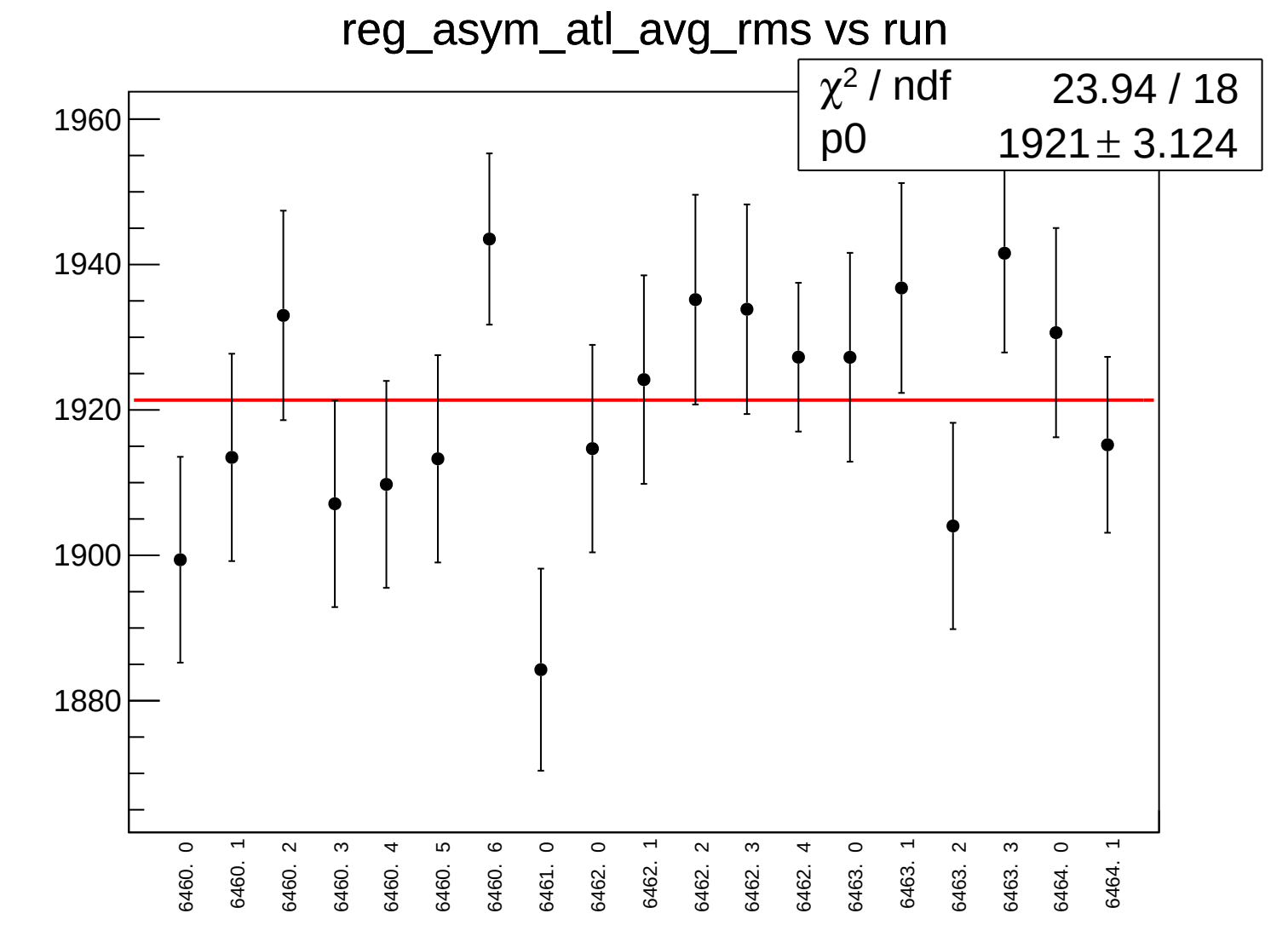

asym_atr2_mean vs run
×10^3
χ² / ndf 19.17 / 18
p0 −1.692e+04 ± 1.956e+04
200
100
0
−100
−200
−300
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 37.65
Std Dev 19.31
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

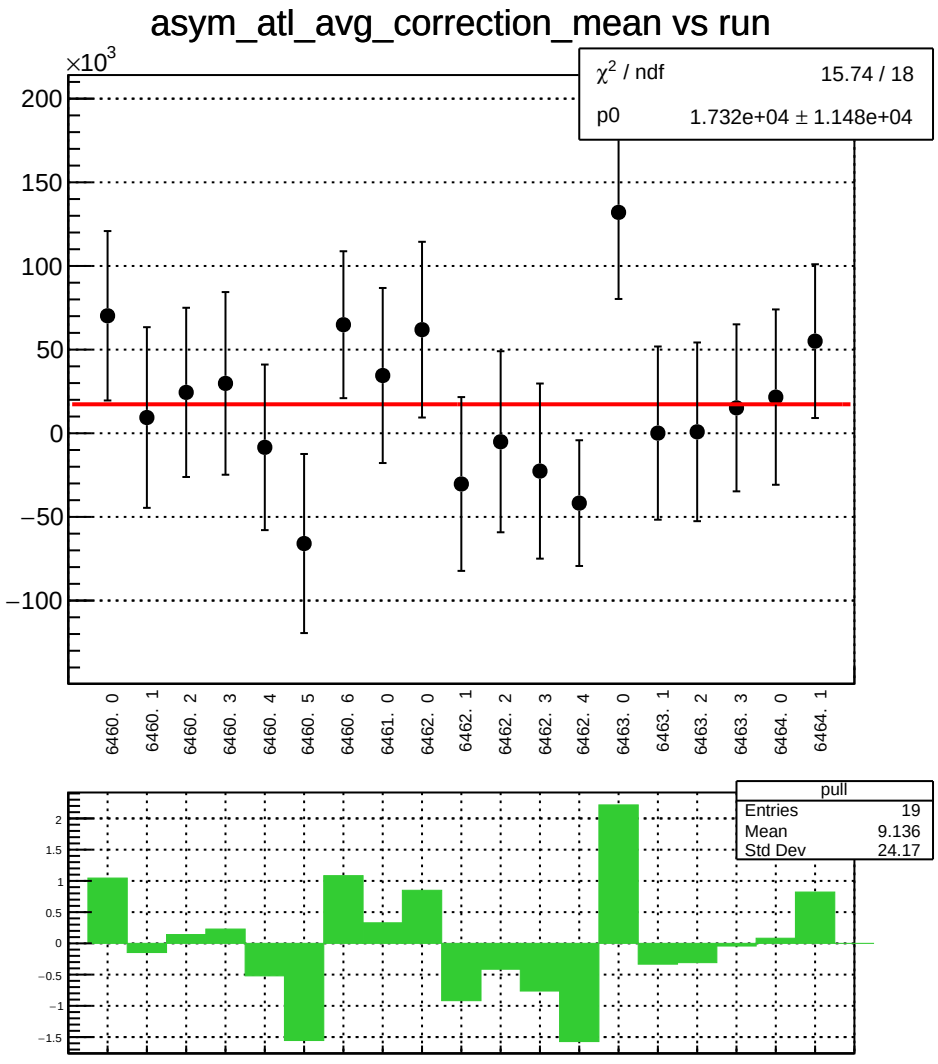

pull1D
Entries 19
Mean −0.01991
Std Dev 1.004
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

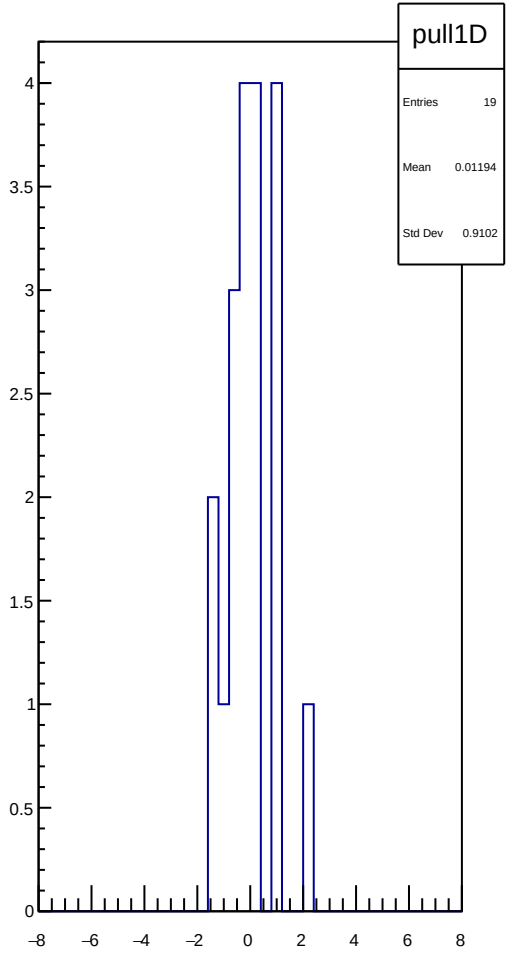

asym_atr2_rms vs run
χ² / ndf 194.2 / 18
p0 8505 ± 13.83
8800
8600
8400
8200
8000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

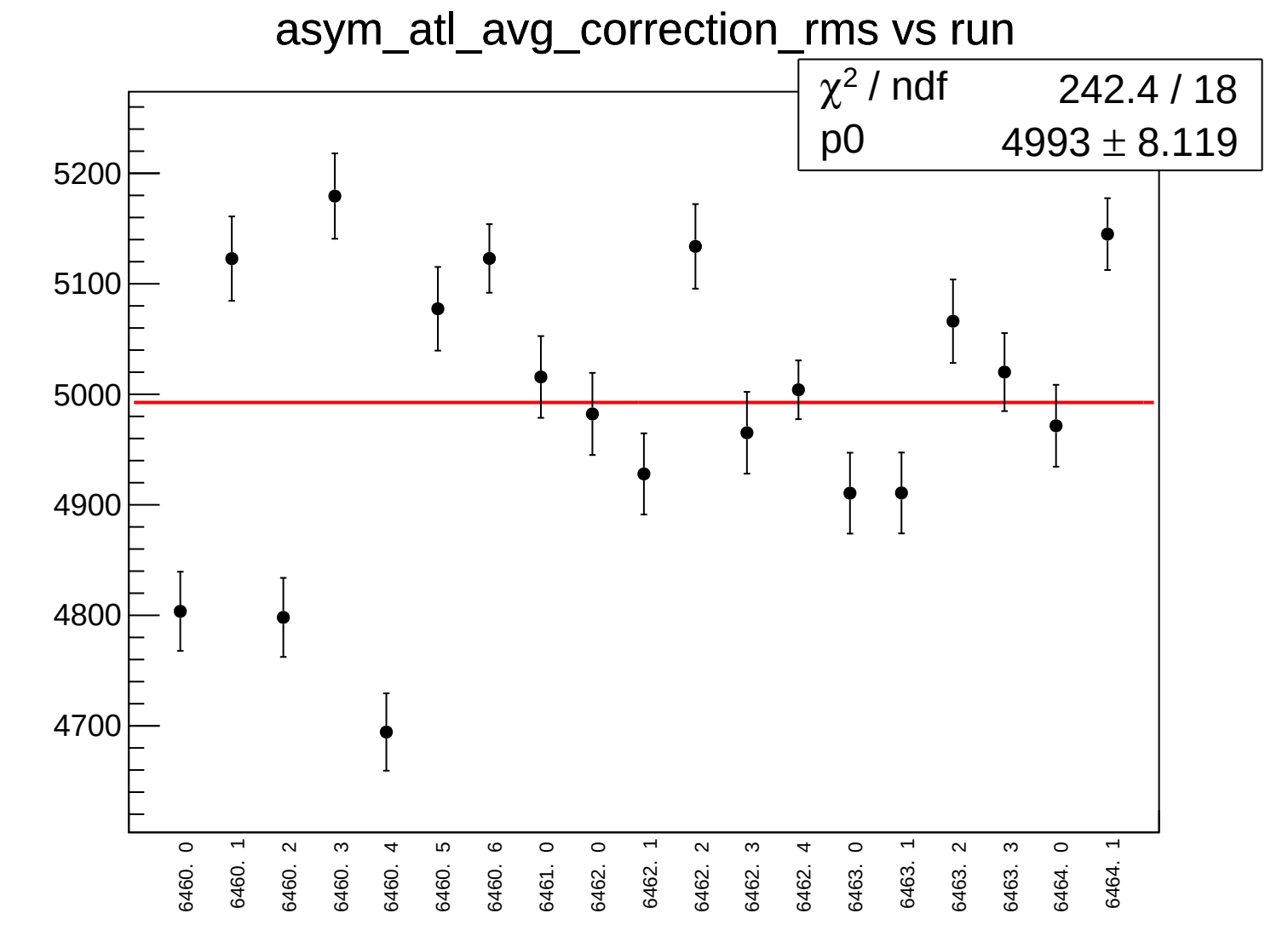

reg_asym_atl_avg_mean vs run
χ² / ndf 15.19 / 18
p0 3955 ± 4418
60000
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −60.94
Std Dev 73.03
1.5
1
0.5
0
−0.5
−1
−1.5
−2

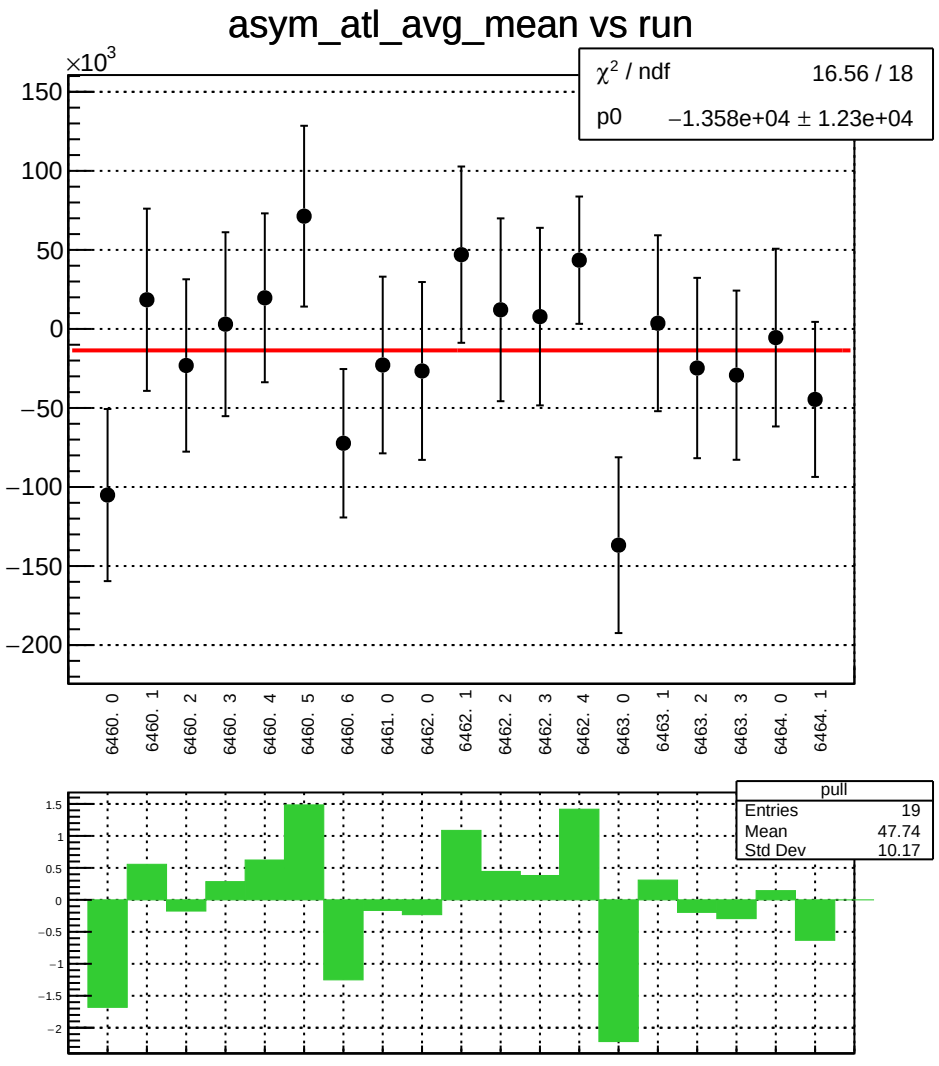

pull1D
Entries 19
Mean 0.009495
Std Dev 0.894
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

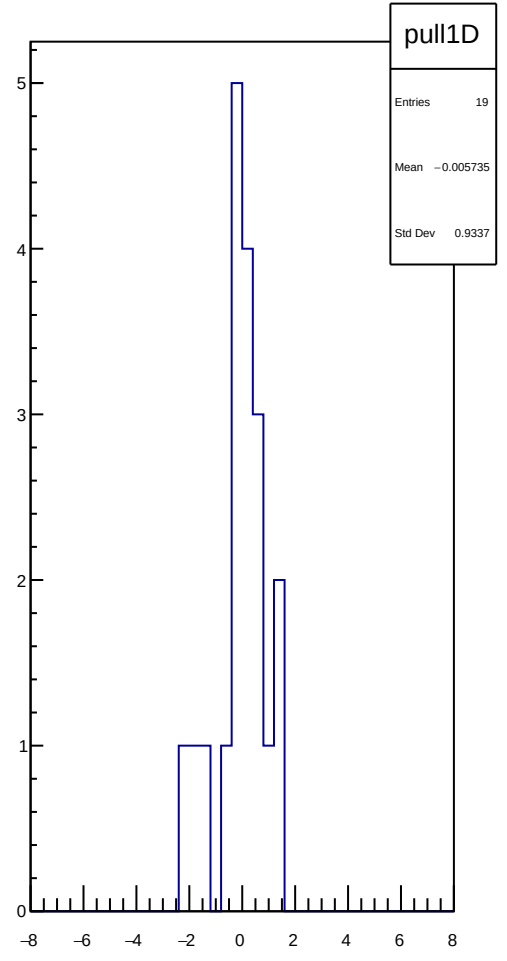

reg_asym_atl_avg_rms vs run
χ² / ndf 23.94 / 18
p0 1921 ± 3.124
1960
1940
1920
1900
1880
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

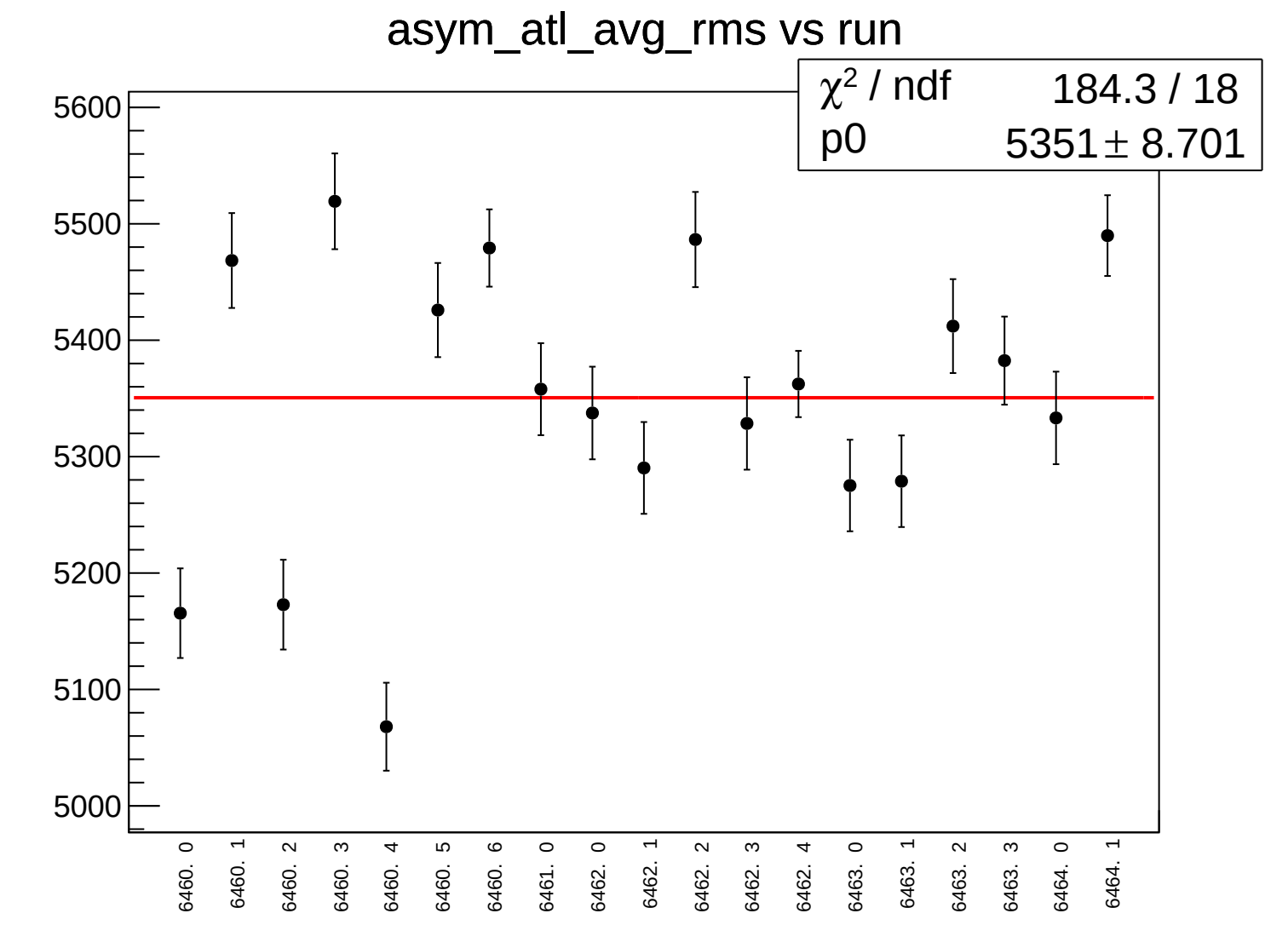

asym_atl_avg_correction_mean vs run
×10^3
χ² / ndf 15.74 / 18
p0 1.732e+04 ± 1.148e+04
200
150
100
50
0
−50
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 9.136
Std Dev 24.17
2
1.5
1
0.5
0
−0.5
−1
−1.5

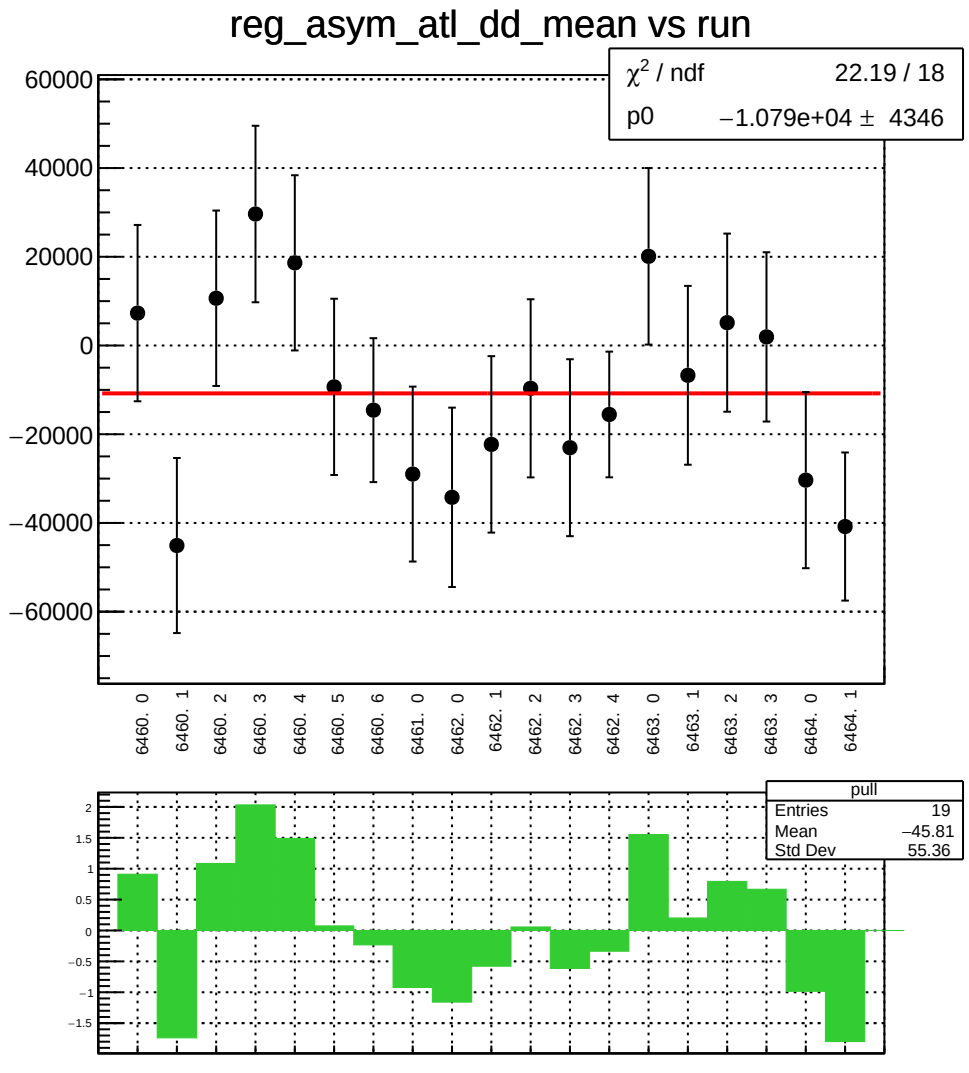

pull1D
Entries 19
Mean 0.01194
Std Dev 0.9102
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

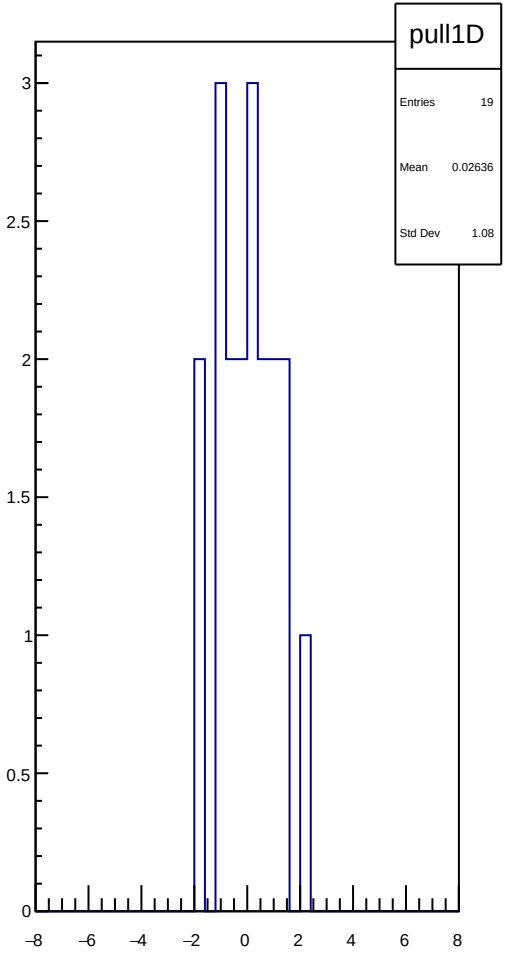

asym_atl_avg_correction_rms vs run
χ² / ndf 242.4 / 18
p0 4993 ± 8.119
5200
5100
5000
4900
4800
4700
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

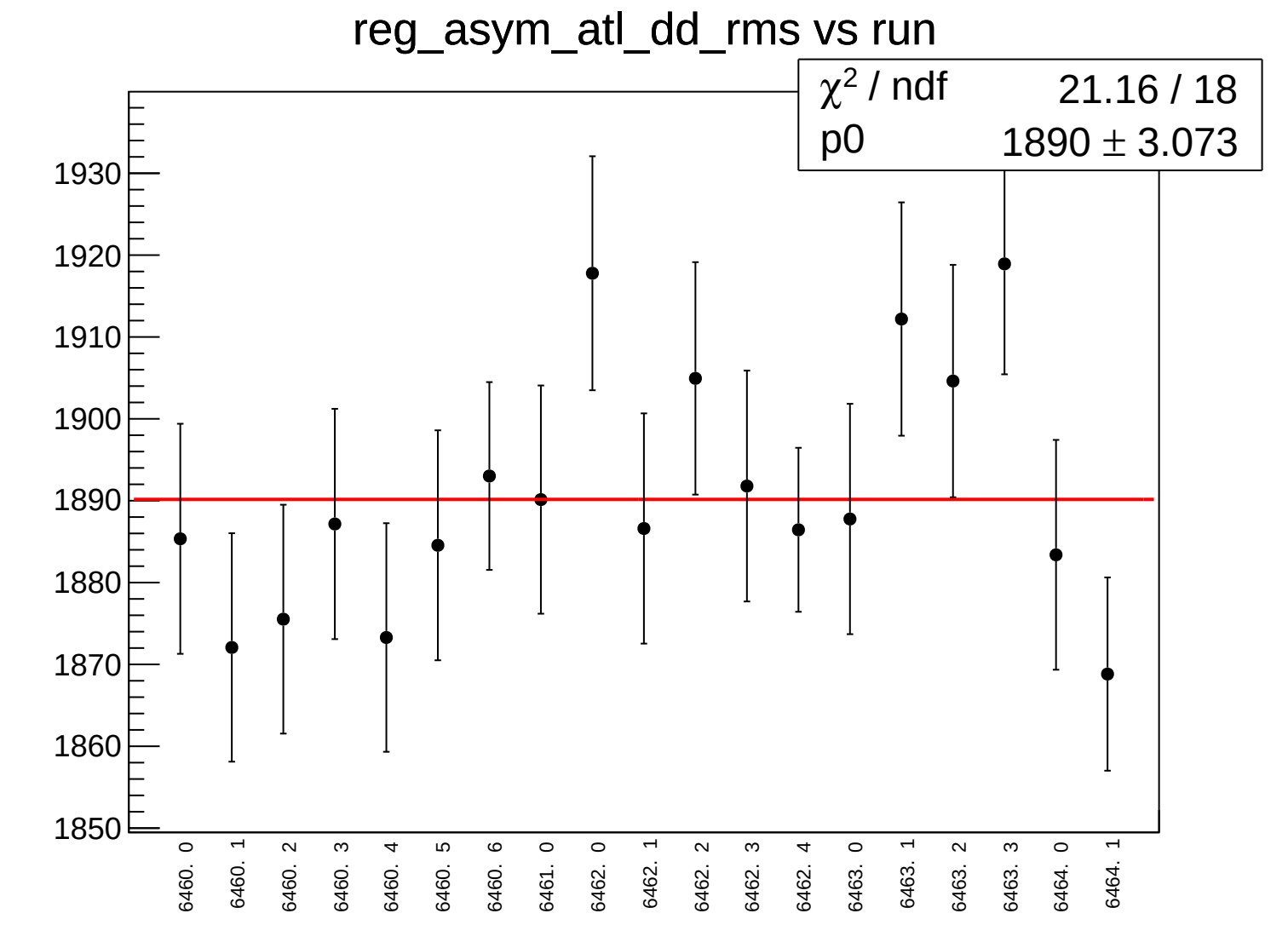

asym_atl_avg_mean vs run
×10^3
χ² / ndf 16.56 / 18
p0 −1.358e+04 ± 1.23e+04
150
100
50
0
−50
−100
−150
−200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 47.74
Std Dev 10.17
1.5
1
0.5
0
−0.5
−1
−1.5
−2

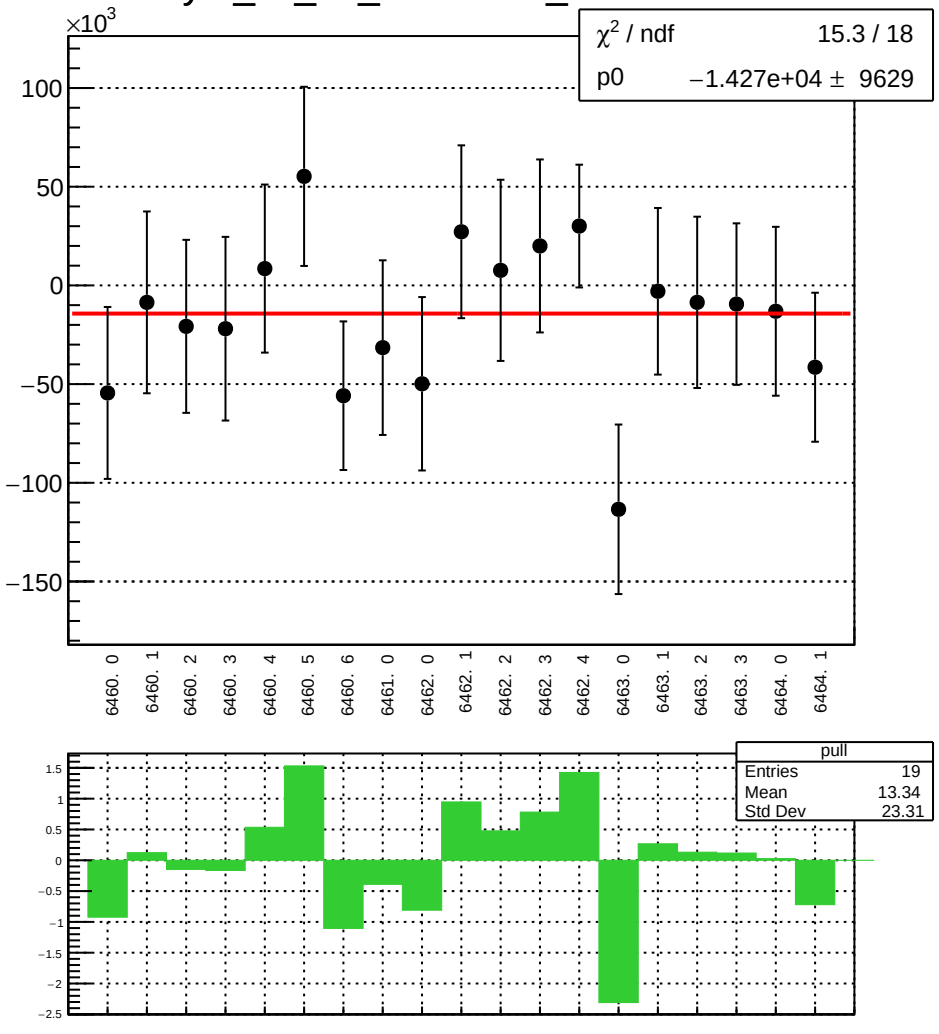

pull1D
Entries 19
Mean −0.005735
Std Dev 0.9337
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

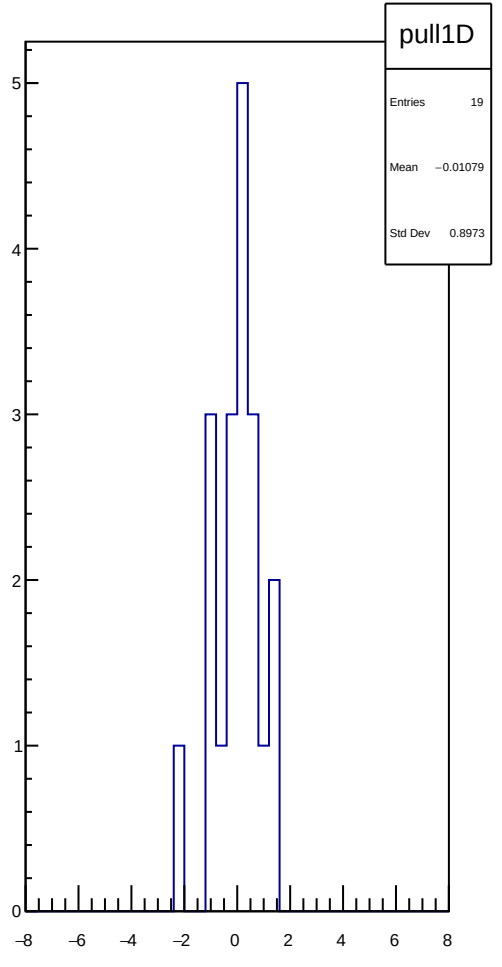

asym_atl_avg_rms vs run
χ² / ndf 184.3 / 18
p0 5351 ± 8.701
5600
5500
5400
5300
5200
5100
5000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

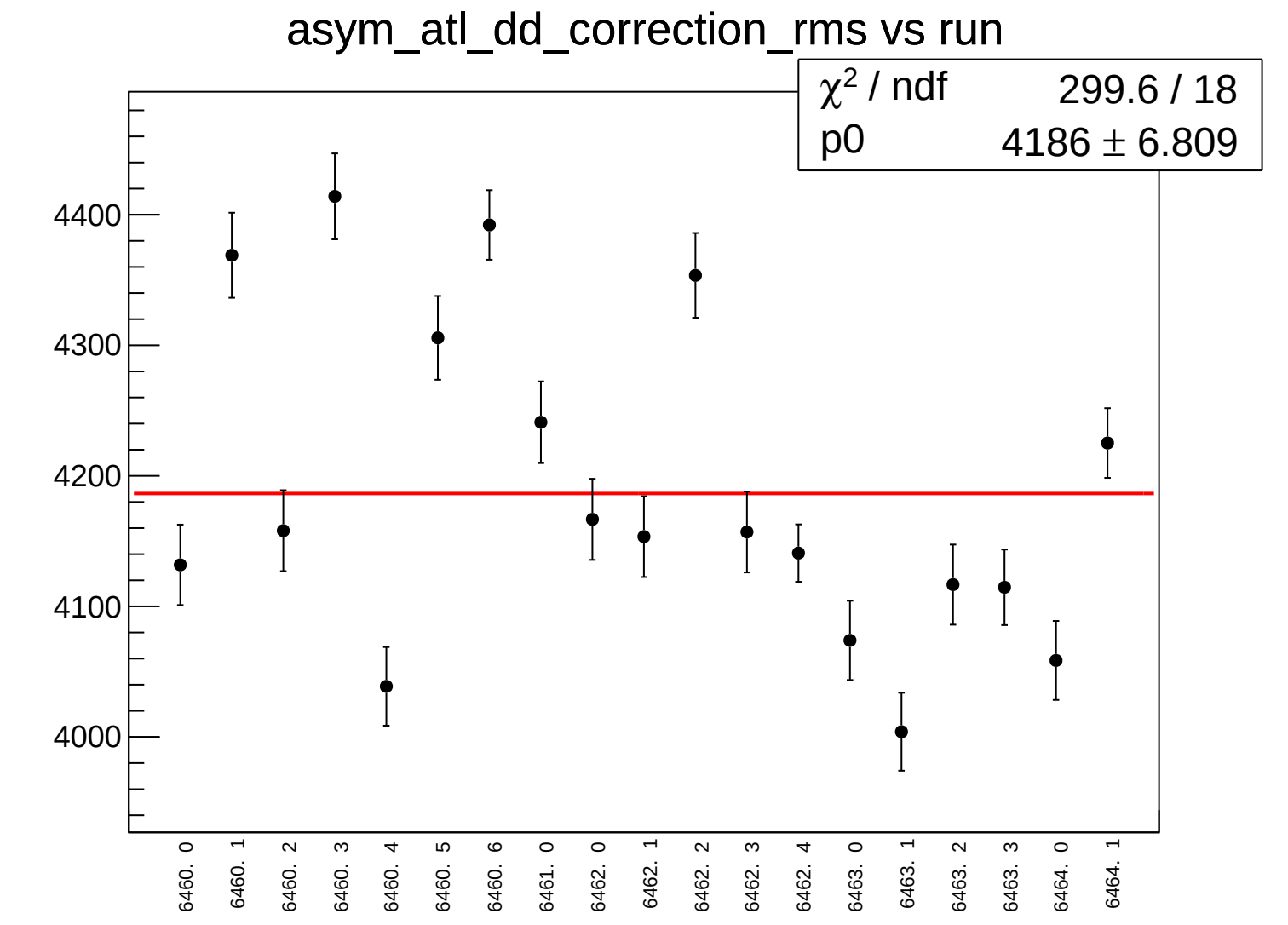

reg_asym_atl_dd_mean vs run
χ² / ndf 22.19 / 18
p0 −1.079e+04 ± 4346
60000
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −45.81
Std Dev 55.36
2
1.5
1
0.5
0
−0.5
−1
−1.5

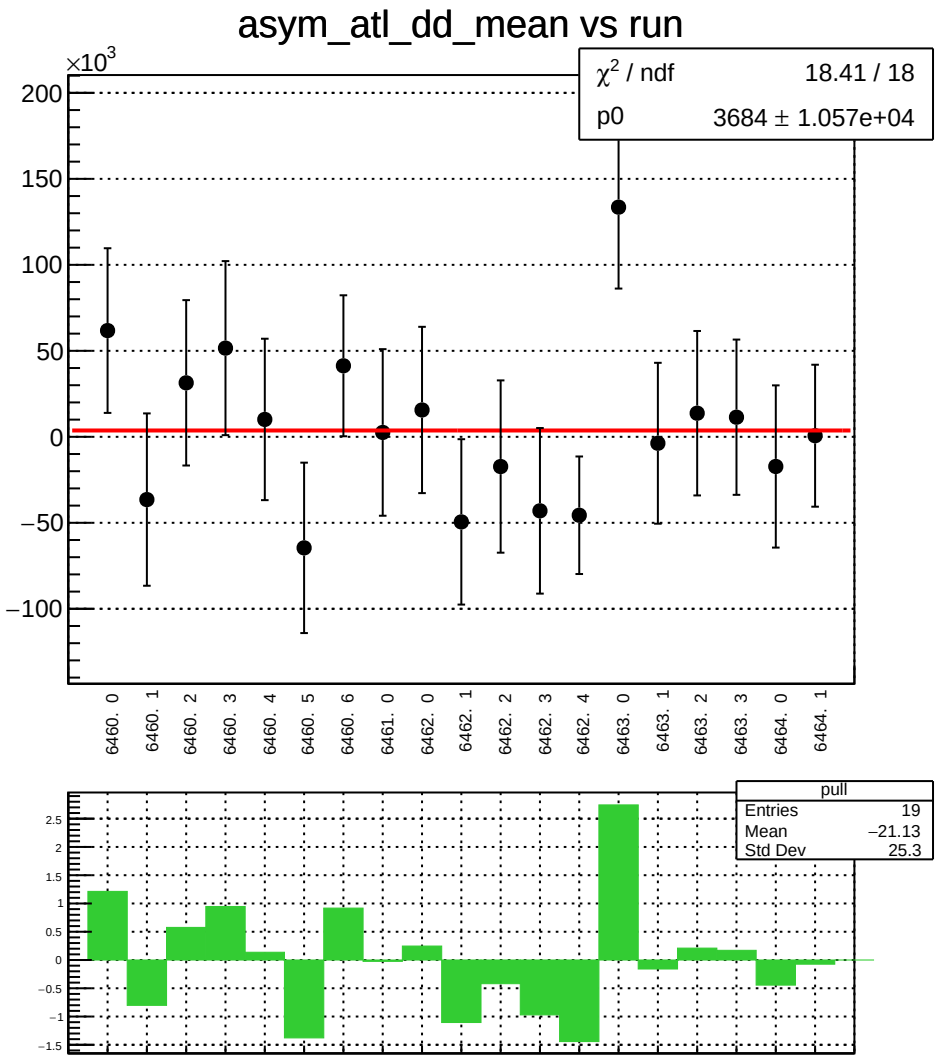

pull1D
Entries 19
Mean 0.02636
Std Dev 1.08
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

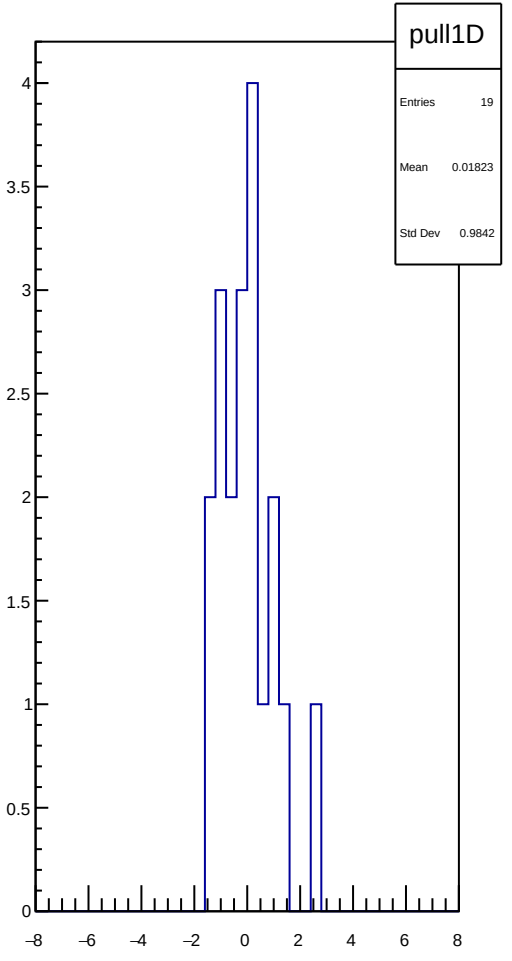

reg_asym_atl_dd_rms vs run
χ² / ndf 21.16 / 18
p0 1890 ± 3.073
1930
1920
1910
1900
1890
1880
1870
1860
1850
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

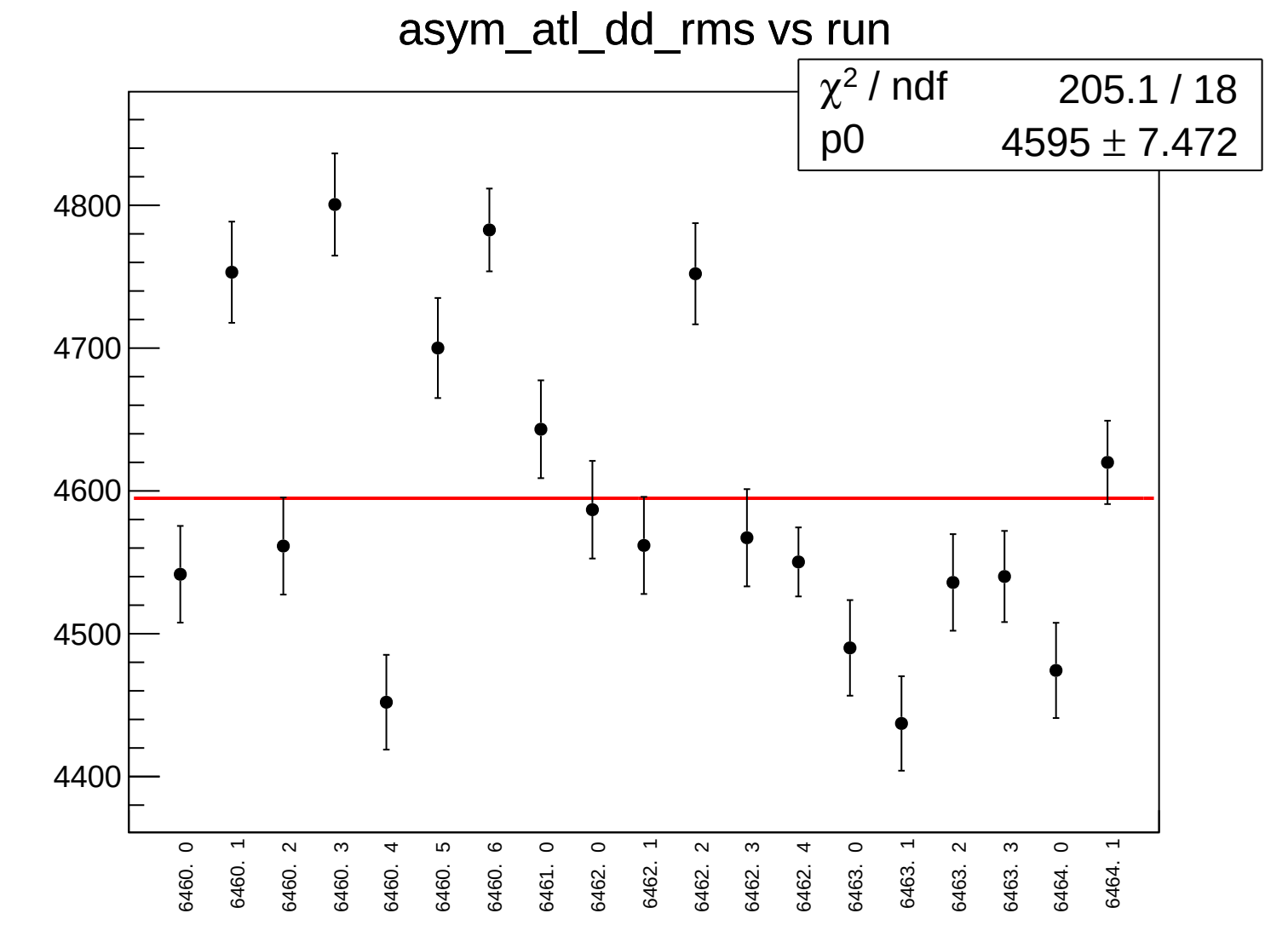

asym_atl_dd_correction_mean vs run
×10^3
χ² / ndf 15.3 / 18
p0 −1.427e+04 ± 9629
100
50
0
−50
−100
−150
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 13.34
Std Dev 23.31
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

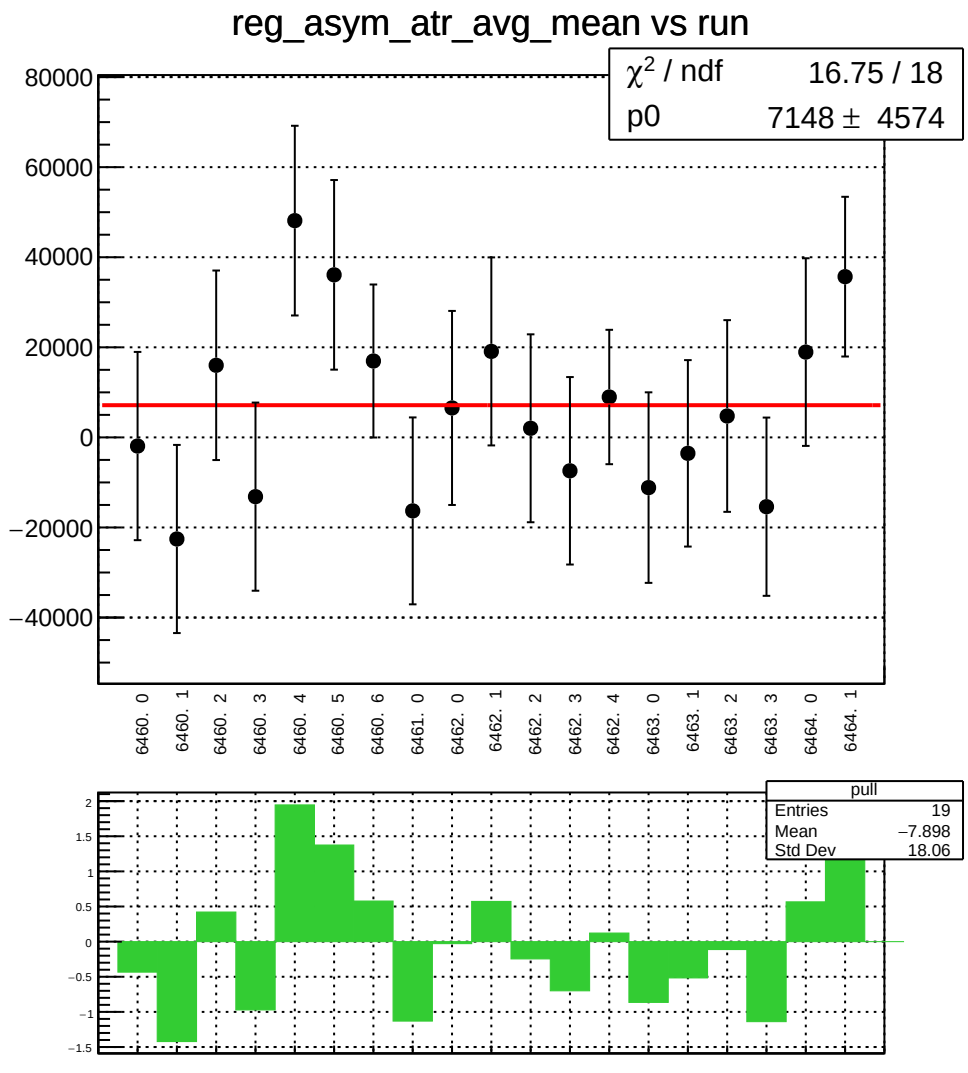

pull1D
Entries 19
Mean −0.01079
Std Dev 0.8973
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

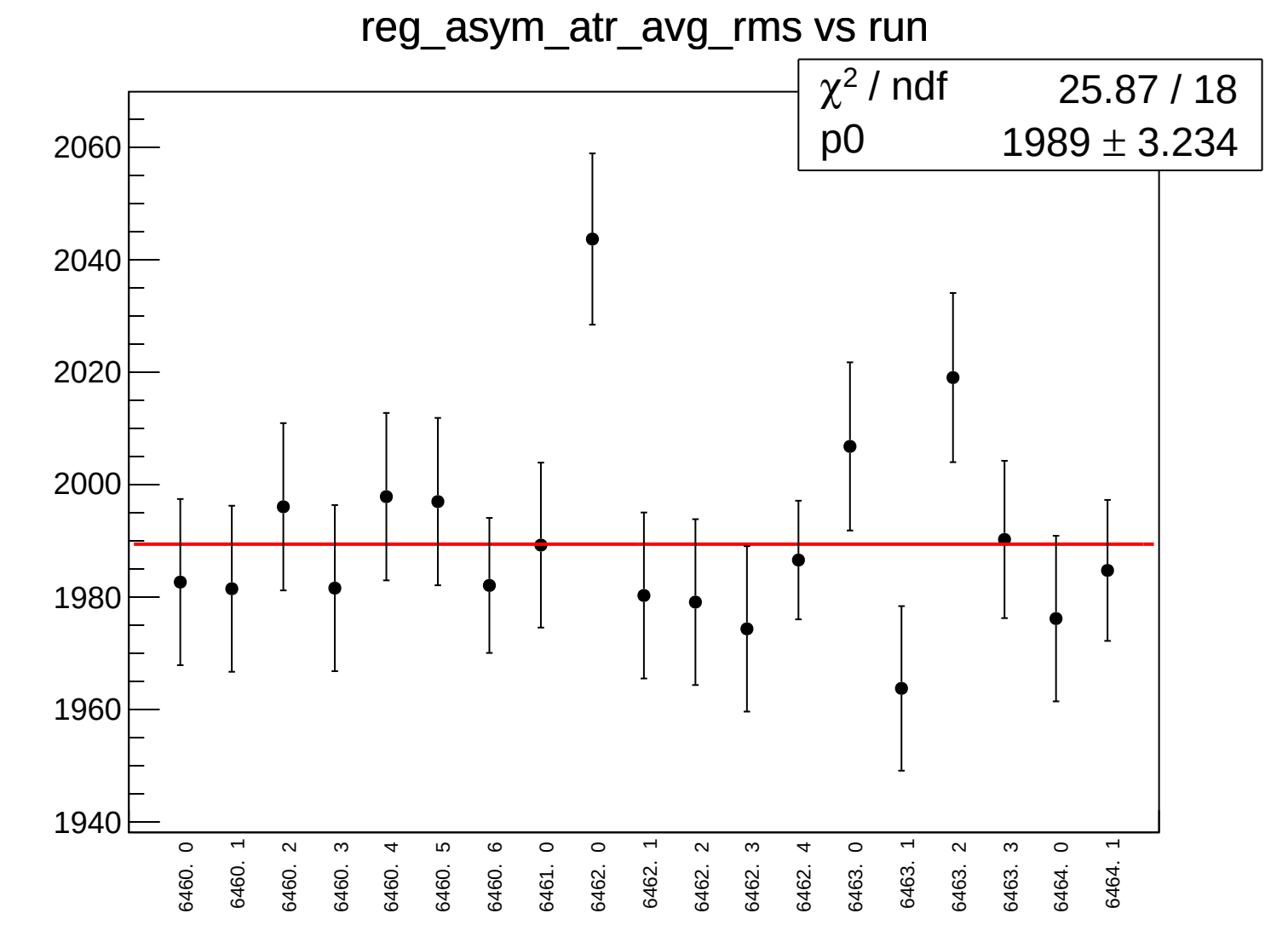

asym_atl_dd_correction_rms vs run
χ² / ndf 299.6 / 18
p0 4186 ± 6.809
4400
4300
4200
4100
4000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

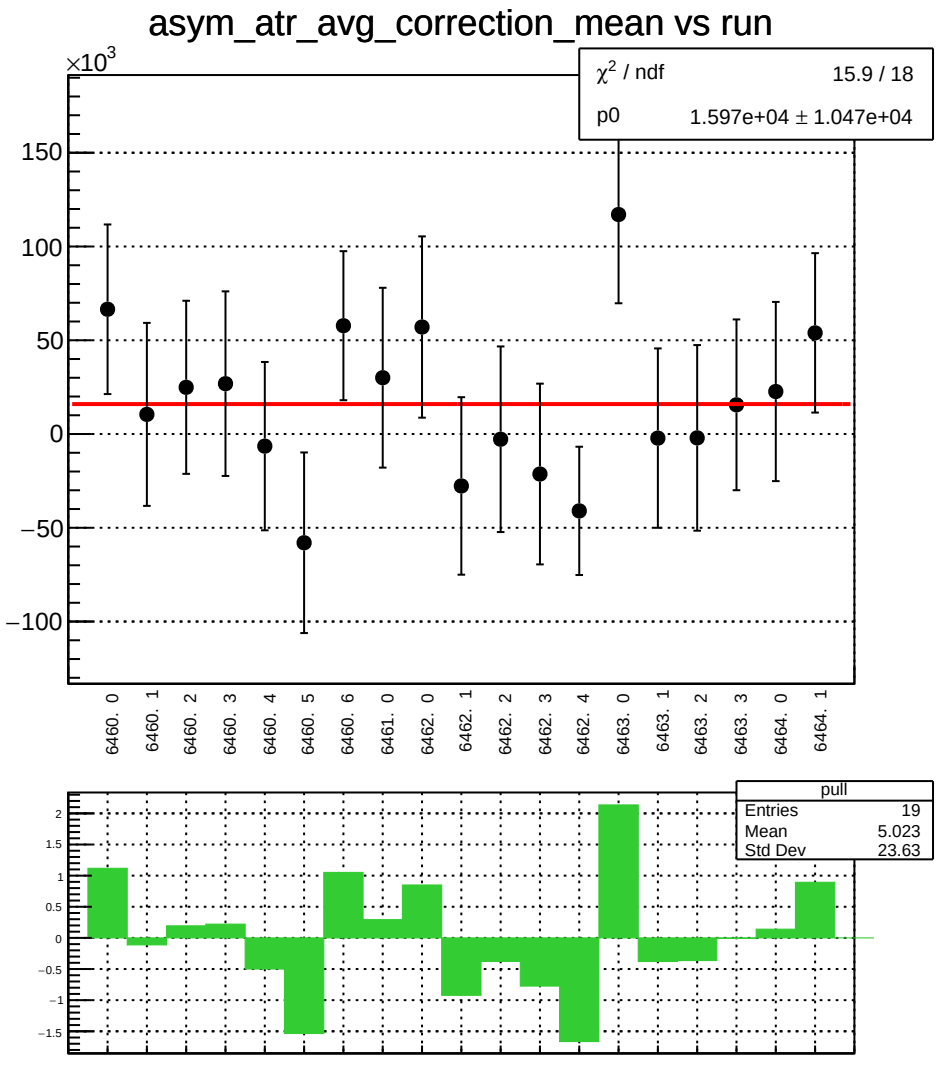

asym_atl_dd_mean vs run
×10^3
χ² / ndf 18.41 / 18
p0 3684 ± 1.057e+04
200
150
100
50
0
−50
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −21.13
Std Dev 25.3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

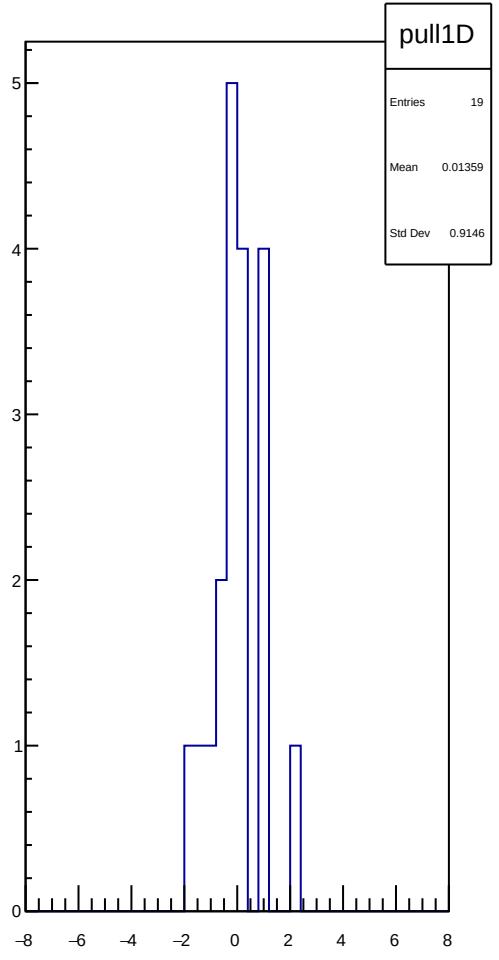

pull1D
Entries 19
Mean 0.01823
Std Dev 0.9842
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

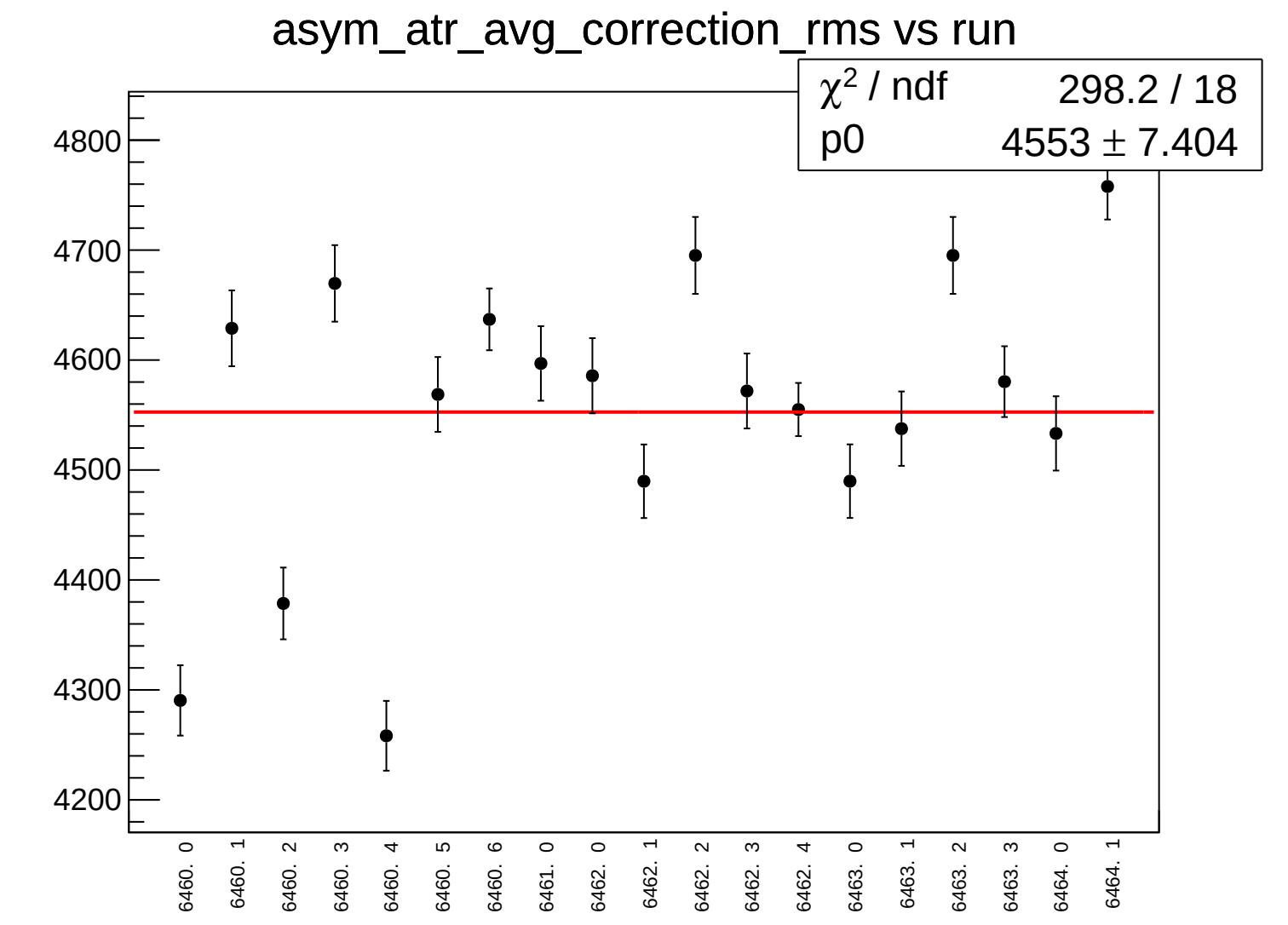

asym_atl_dd_rms vs run
χ² / ndf 205.1 / 18
p0 4595 ± 7.472
4800
4700
4600
4500
4400
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

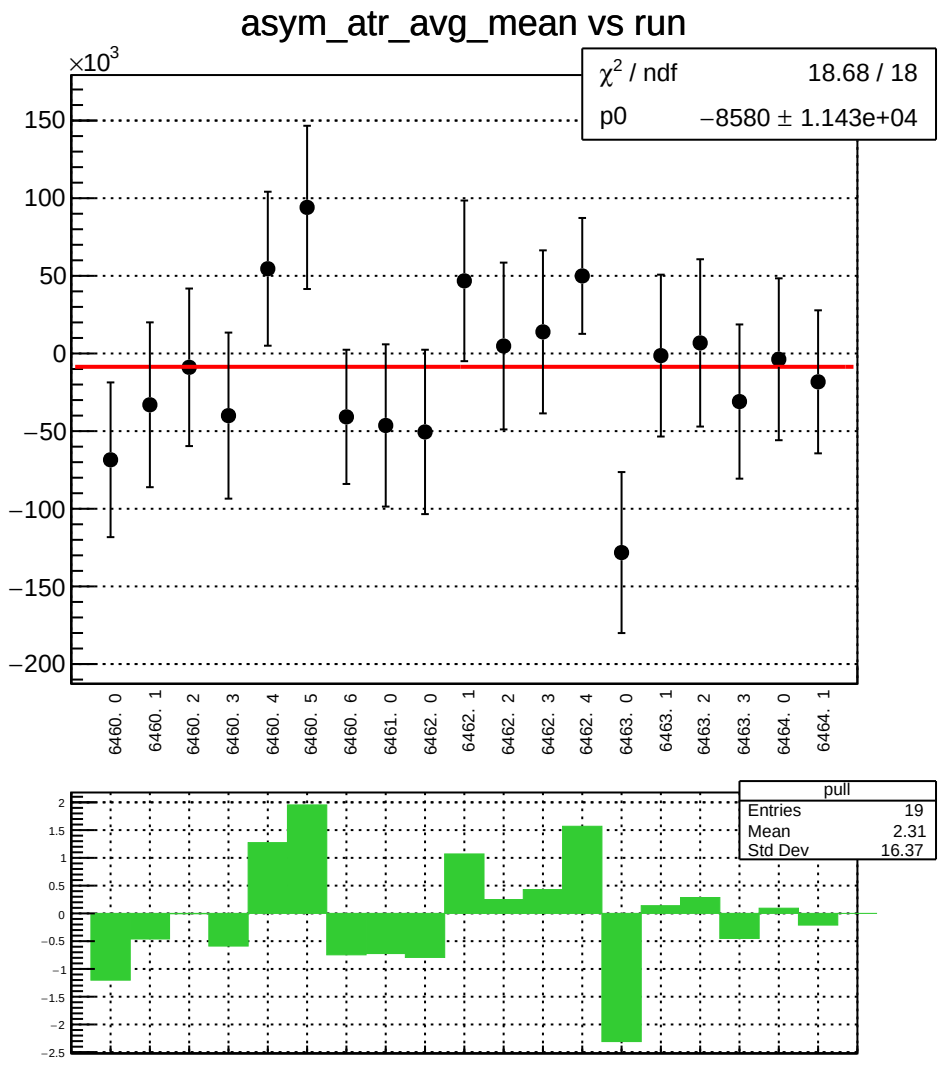

reg_asym_atr_avg_mean vs run
χ² / ndf 16.75 / 18
p0 7148 ± 4574
80000
60000
40000
20000
0
−20000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −7.898
Std Dev 18.06
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 19
Mean −0.01979
Std Dev 0.9388
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

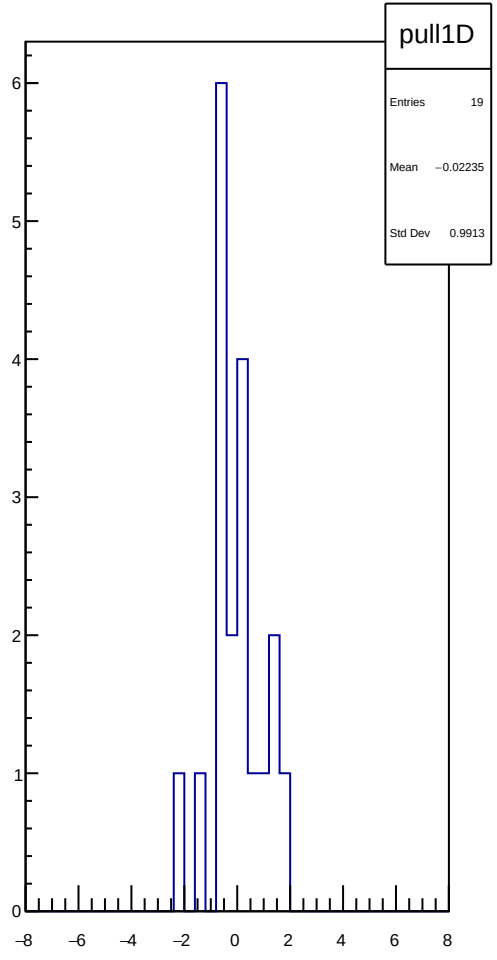

reg_asym_atr_avg_rms vs run
χ² / ndf 25.87 / 18
p0 1989 ± 3.234
2060
2040
2020
2000
1980
1960
1940
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

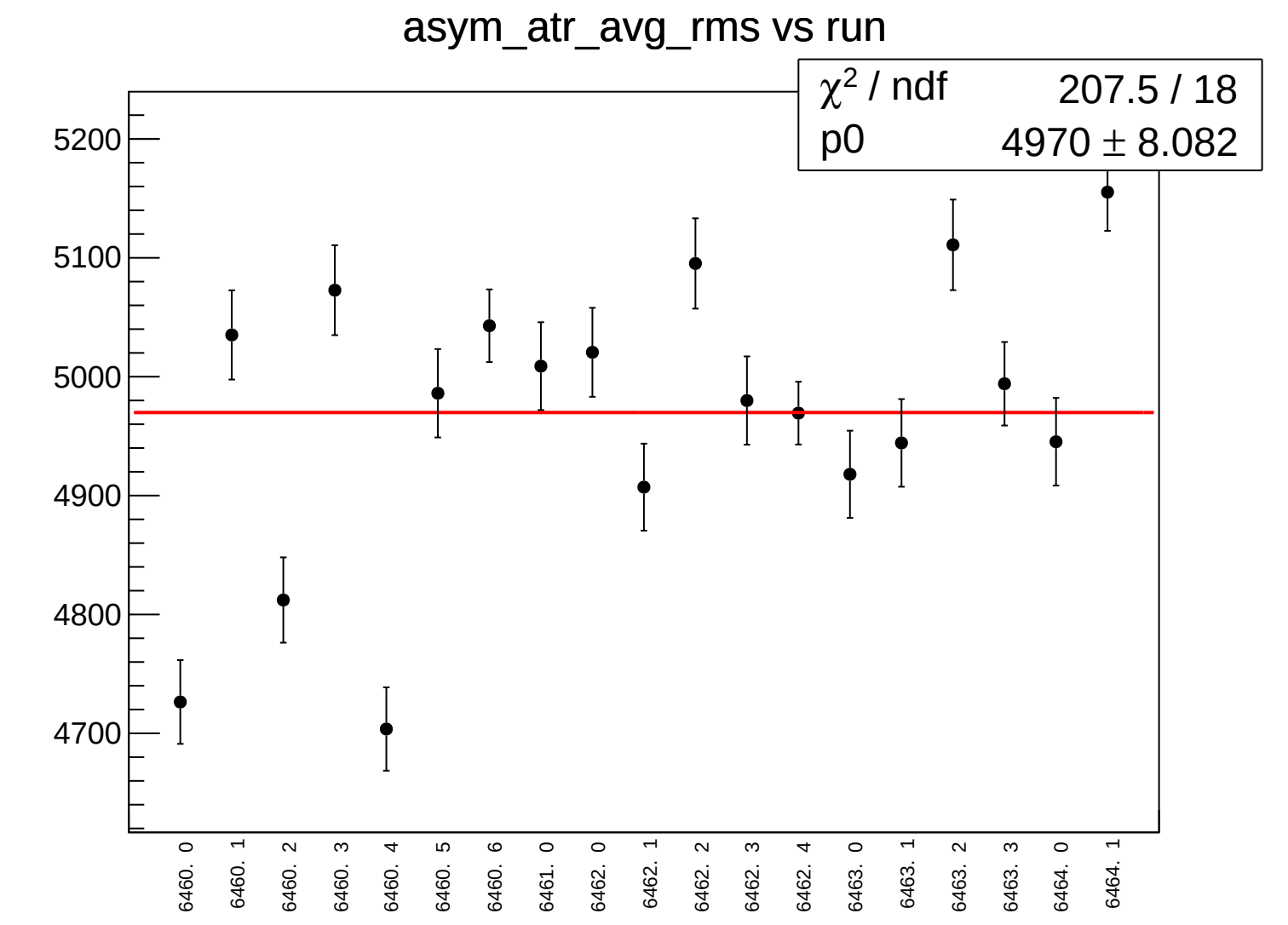

asym_atr_avg_correction_mean vs run
×10^3
χ² / ndf 15.9 / 18
p0 1.597e+04 ± 1.047e+04
150
100
50
0
−50
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 5.023
Std Dev 23.63
2
1.5
1
0.5
0
−0.5
−1
−1.5

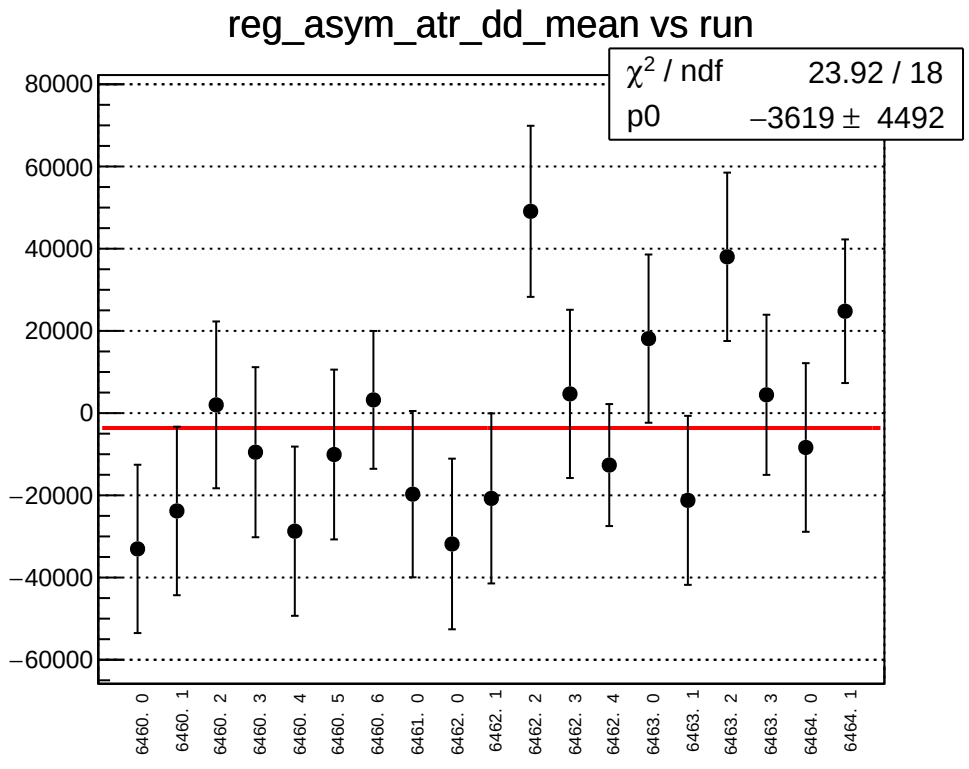

pull1D
Entries 19
Mean 0.01359
Std Dev 0.9146
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

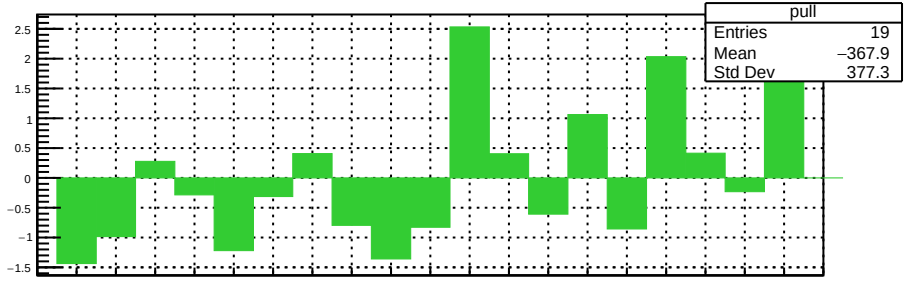

asym_atr_avg_correction_rms vs run
χ² / ndf 298.2 / 18
p0 4553 ± 7.404
4800
4700
4600
4500
4400
4300
4200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

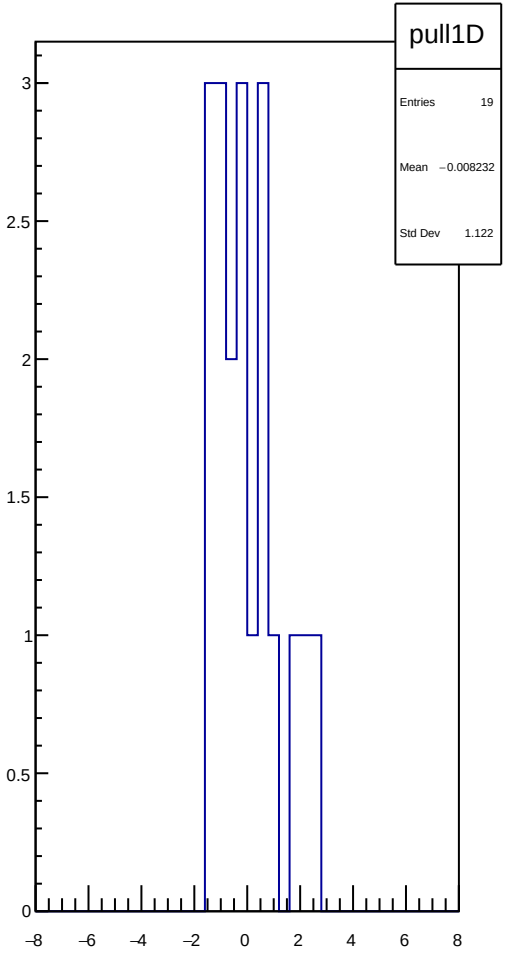

asym_atr_avg_mean vs run
×10^3
χ² / ndf 18.68 / 18
p0 −8580 ± 1.143e+04
150
100
50
0
−50
−100
−150
−200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 2.31
Std Dev 16.37
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

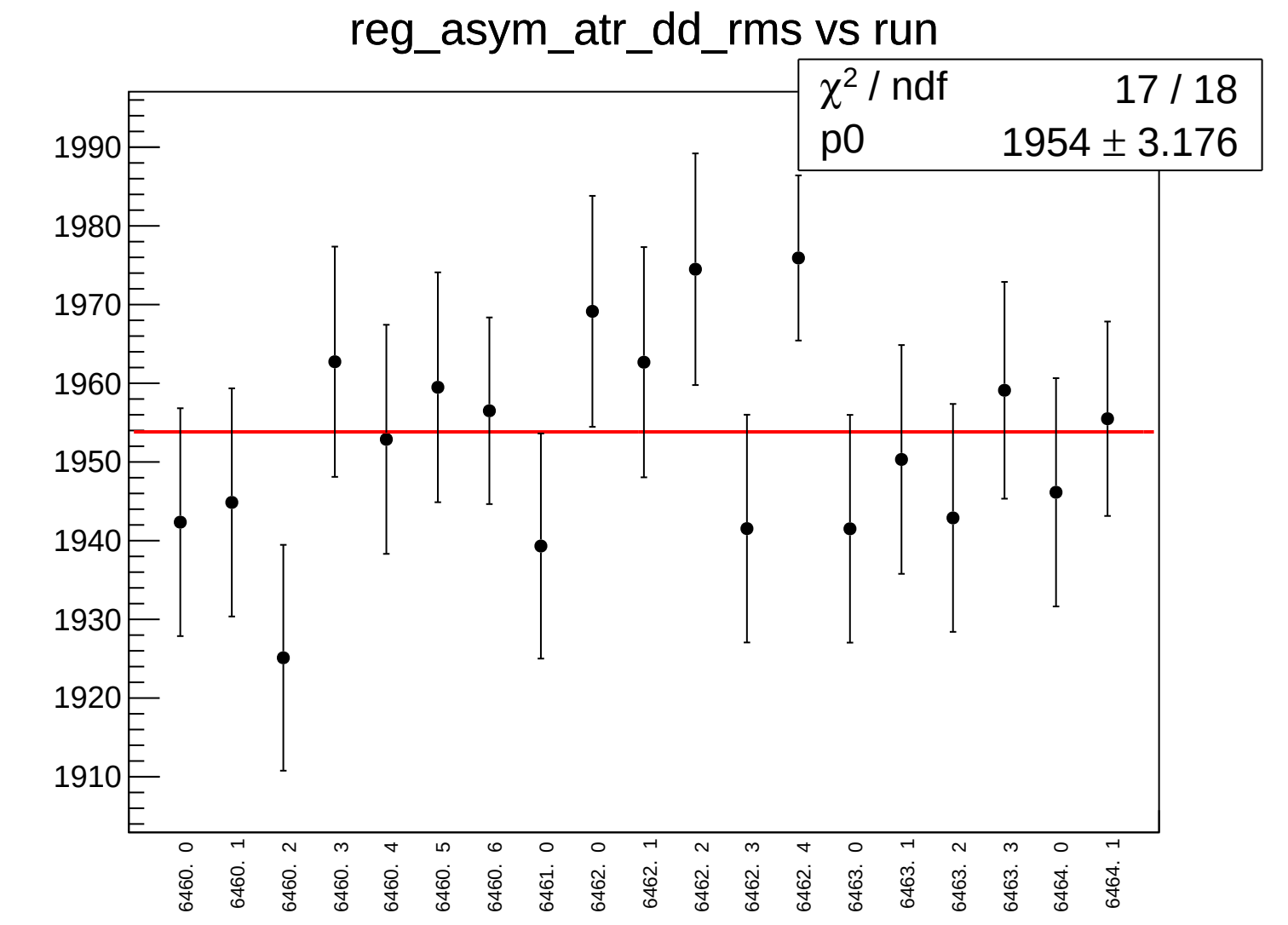

pull1D
Entries 19
Mean −0.02235
Std Dev 0.9913
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

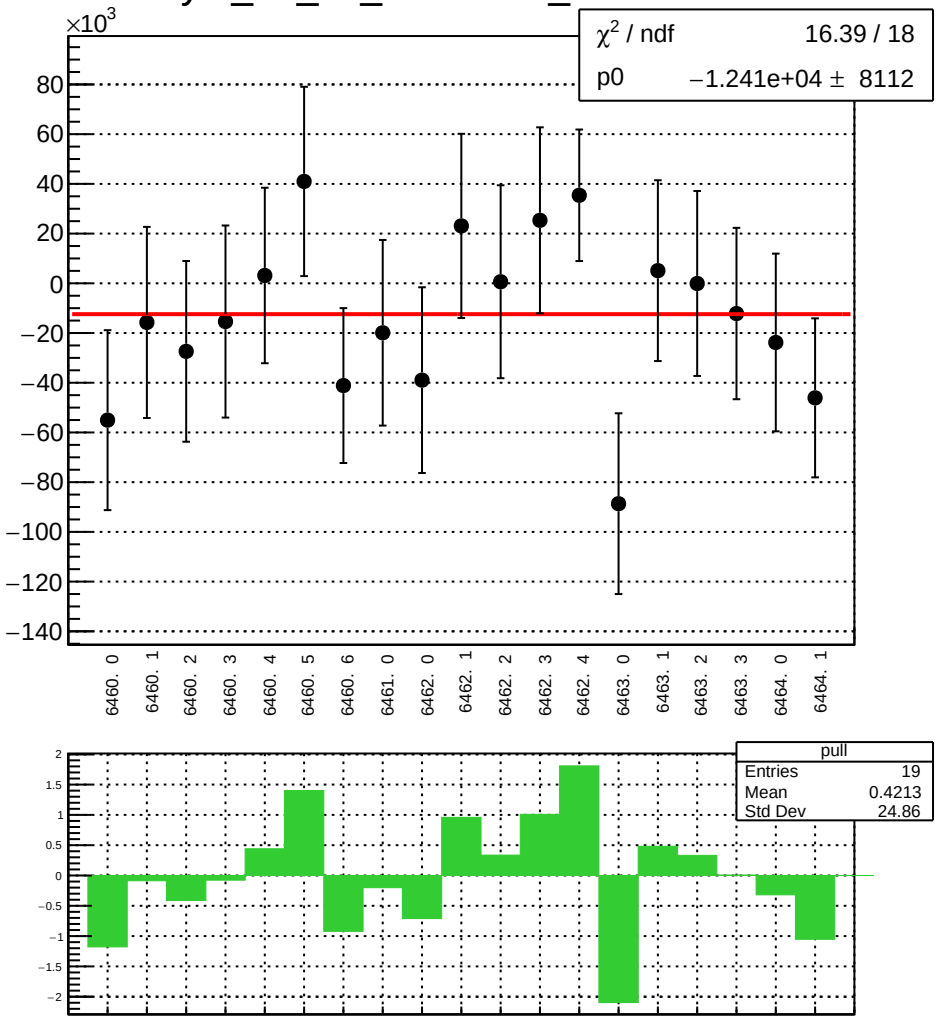

asym_atr_avg_rms vs run
χ² / ndf 207.5 / 18
p0 4970 ± 8.082
5200
5100
5000
4900
4800
4700
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

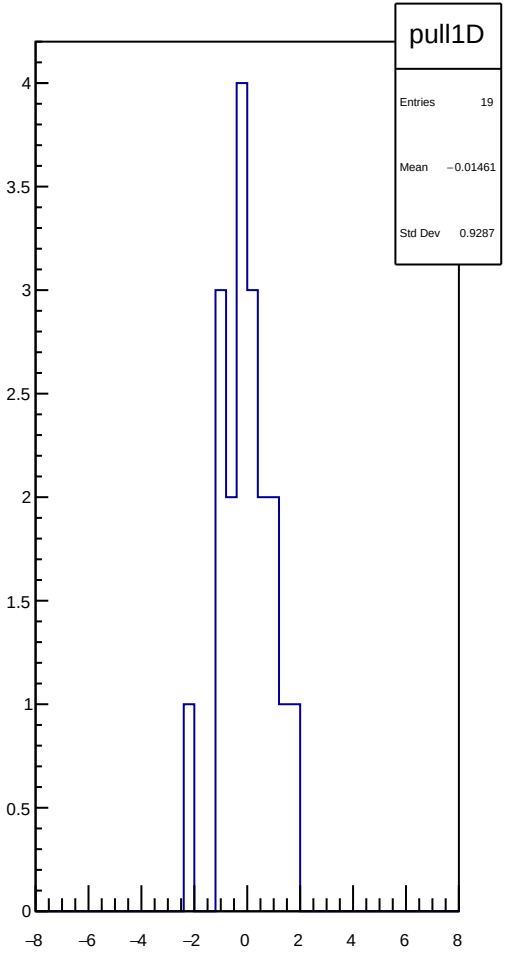

reg_asym_atr_dd_mean vs run
χ² / ndf 23.92 / 18
p0 −3619 ± 4492
80000
60000
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

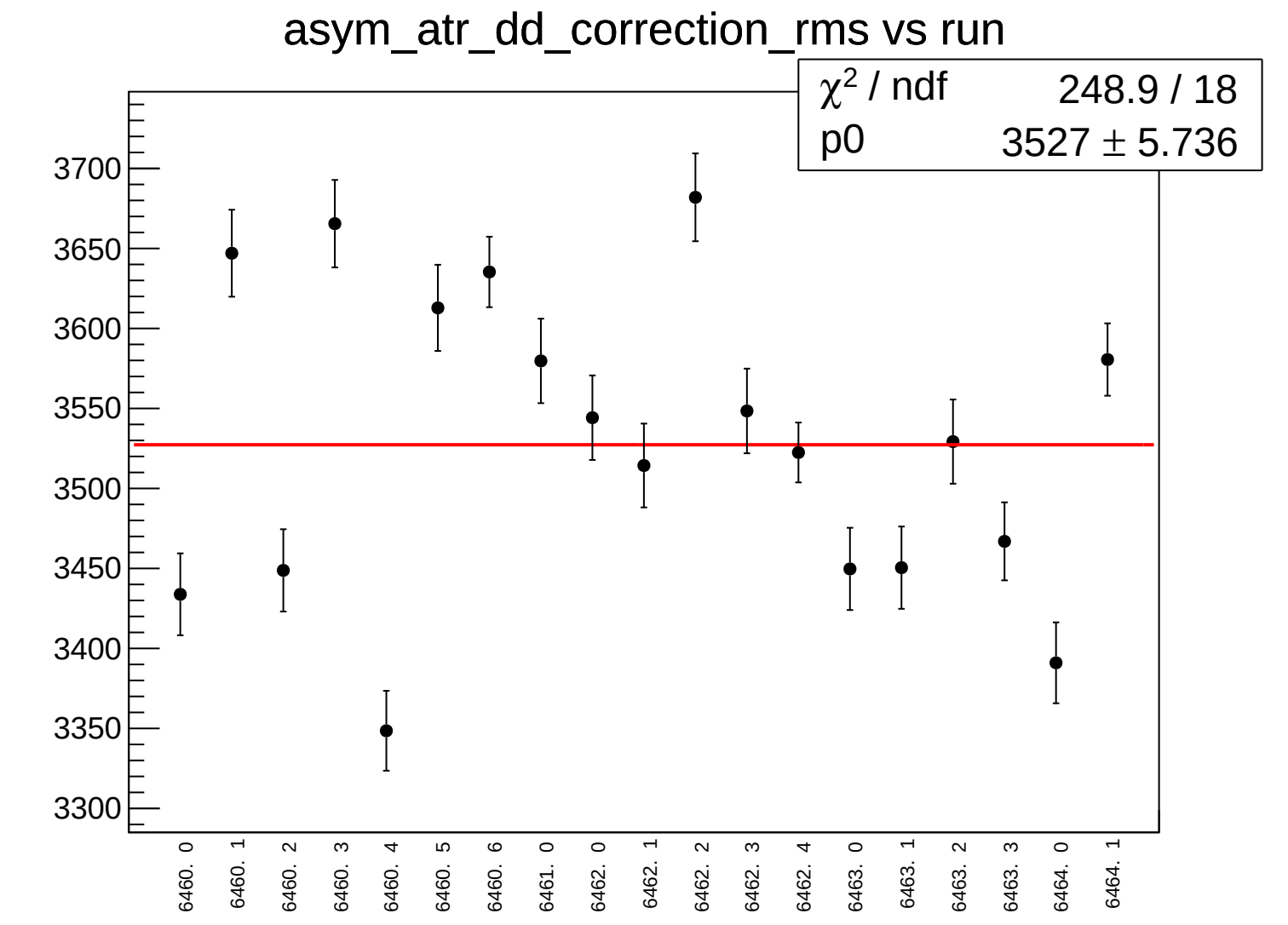

pull
Entries 19
Mean −367.9
Std Dev 377.3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

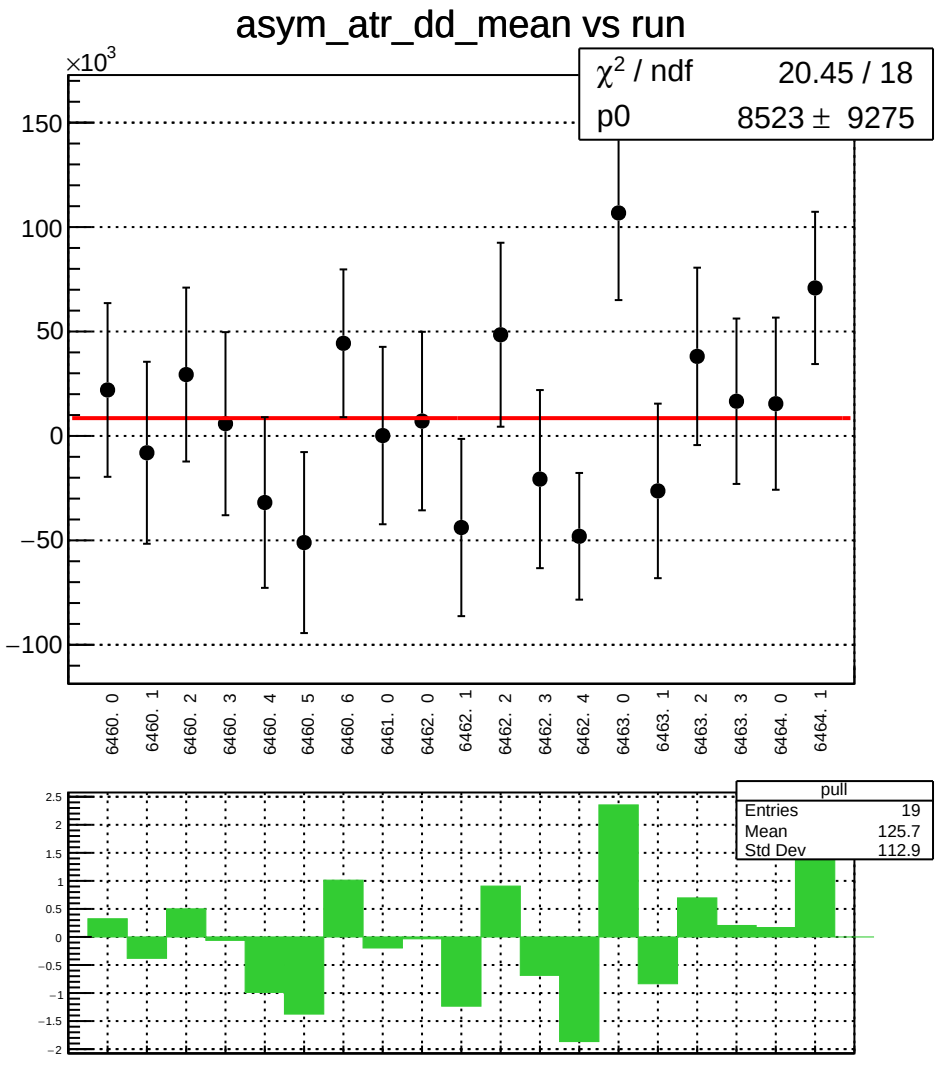

pull1D
Entries 19
Mean −0.008232
Std Dev 1.122
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

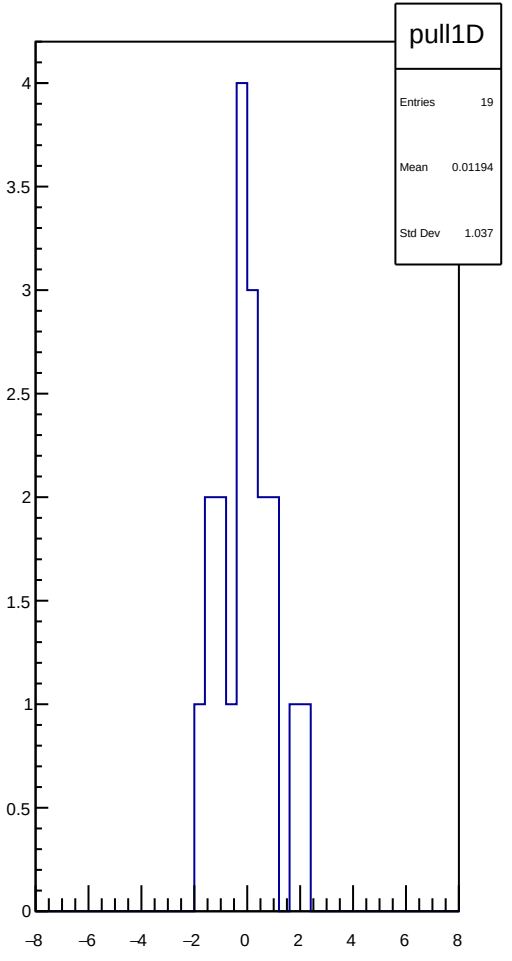

reg_asym_atr_dd_rms vs run
χ² / ndf 17 / 18
p0 1954 ± 3.176
1990
1980
1970
1960
1950
1940
1930
1920
1910
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

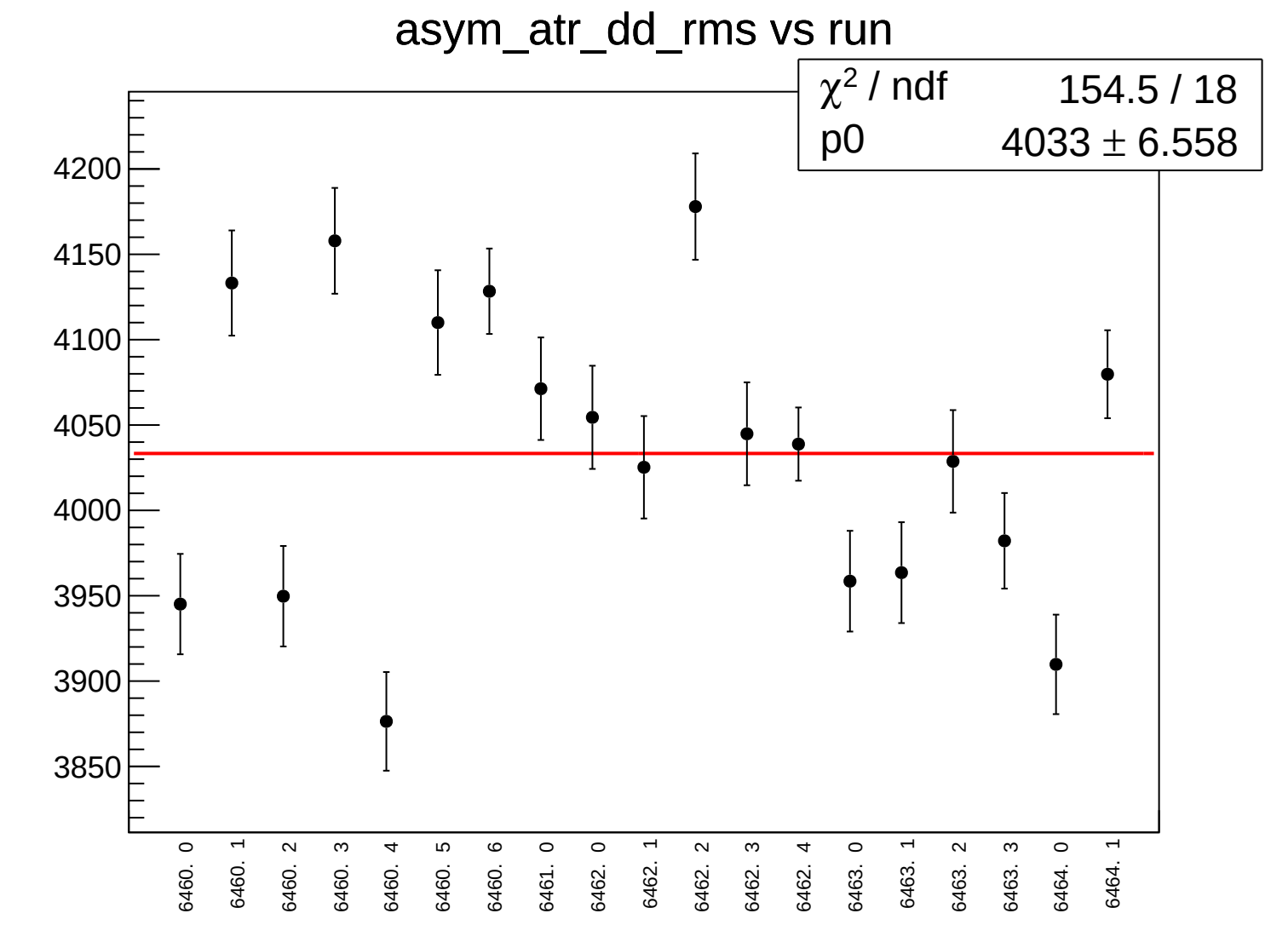

asym_atr_dd_correction_mean vs run
×10^3
χ² / ndf 16.39 / 18
p0 −1.241e+04 ± 8112
80
60
40
20
0
−20
−40
−60
−80
−100
−120
−140
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 0.4213
Std Dev 24.86
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

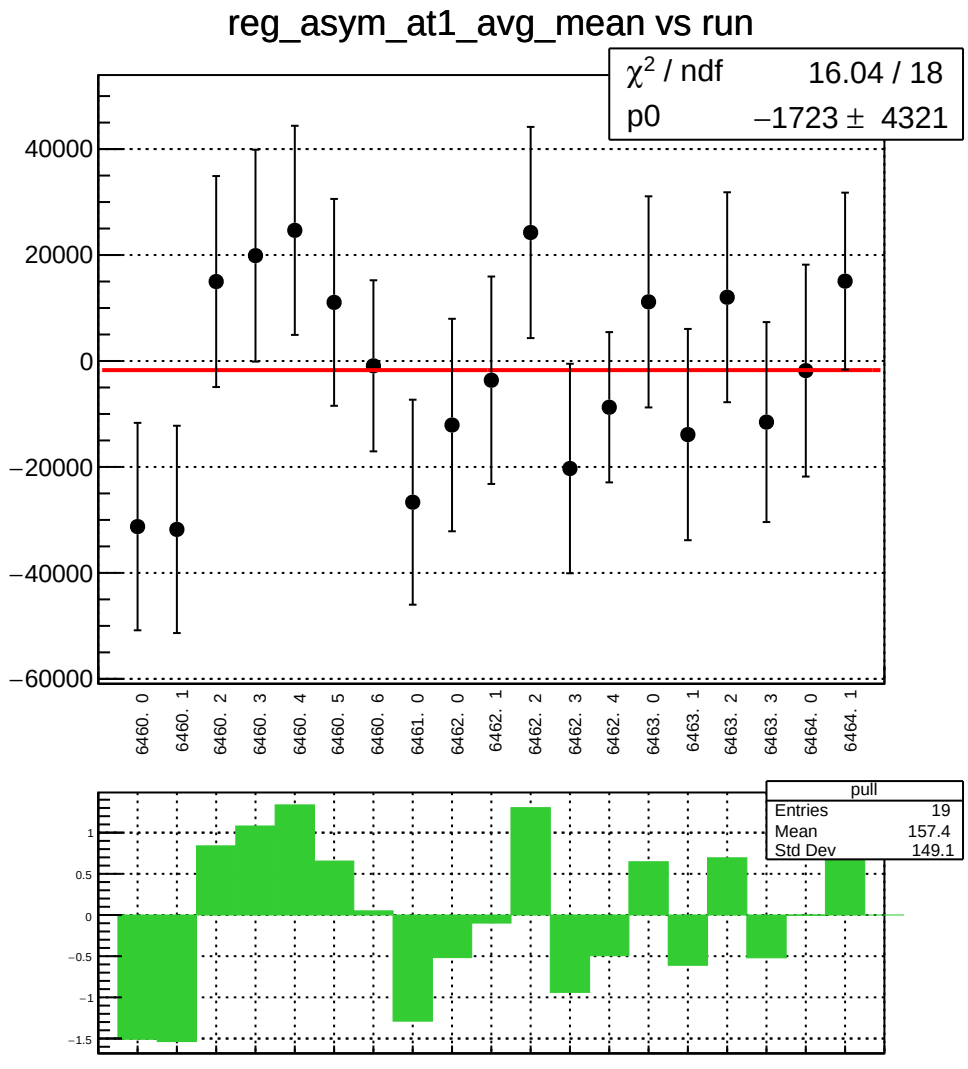

pull1D
Entries 19
Mean −0.01461
Std Dev 0.9287
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

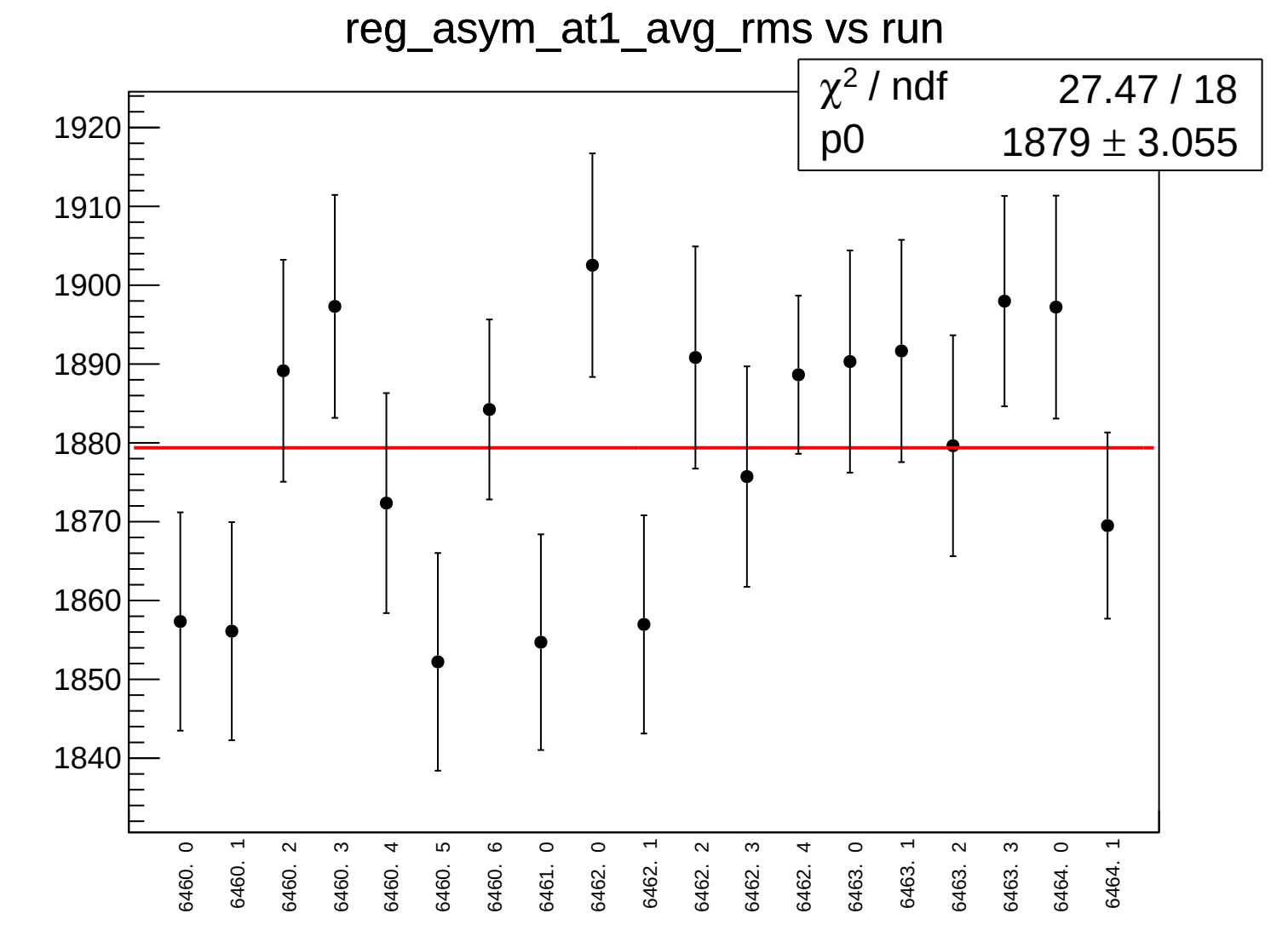

asym_atr_dd_correction_rms vs run
χ² / ndf 248.9 / 18
p0 3527 ± 5.736
3700
3650
3600
3550
3500
3450
3400
3350
3300
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

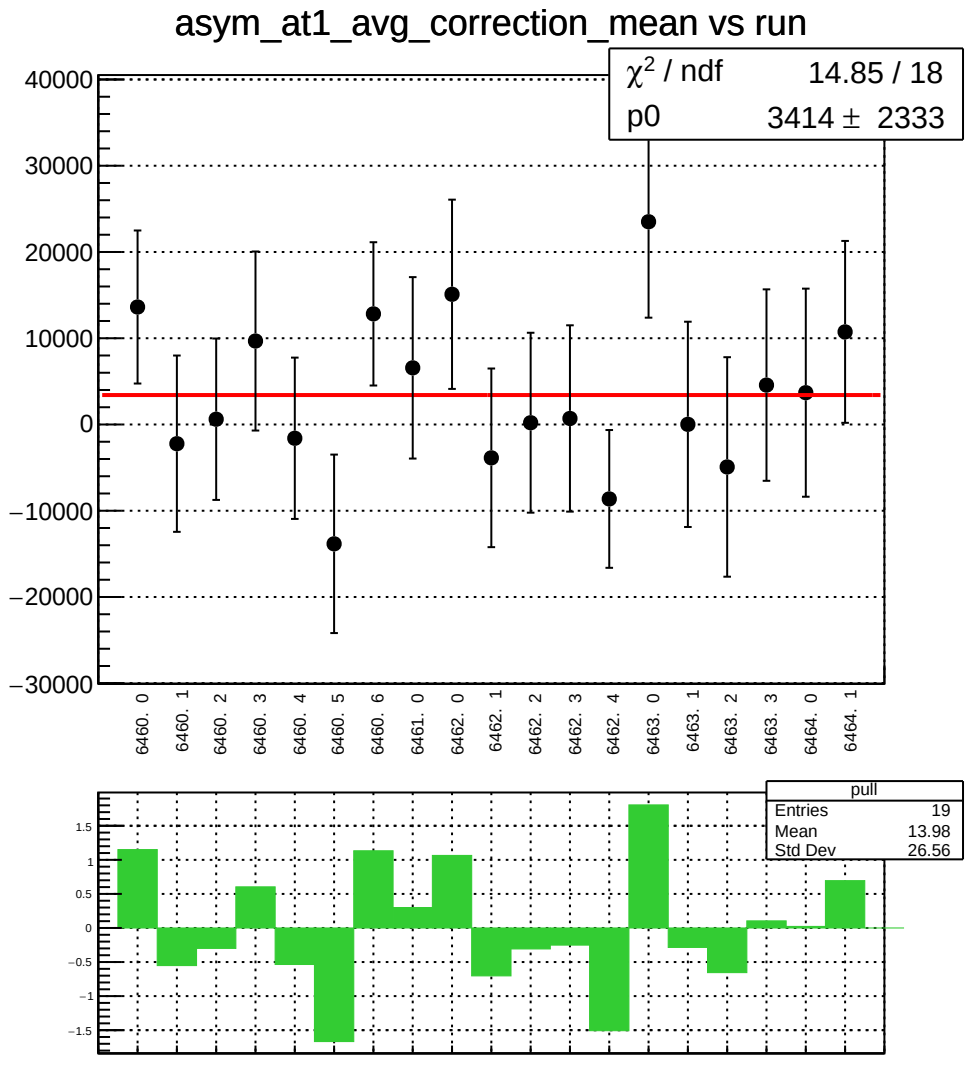

asym_atr_dd_mean vs run
×10^3
χ^2 / ndf 20.45 / 18
p0 8523 ± 9275
150
100
50
0
−50
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 125.7
Std Dev 112.9
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

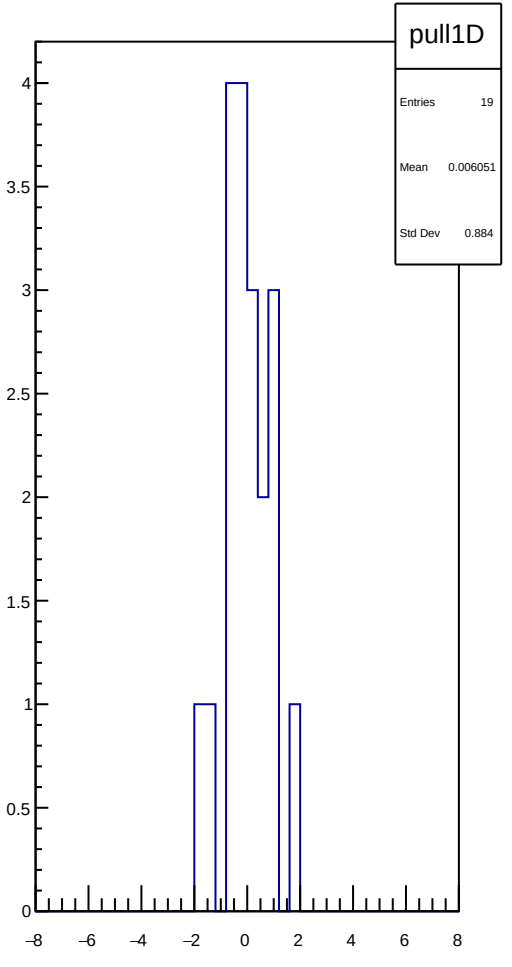

pull1D
Entries 19
Mean 0.01194
Std Dev 1.037
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

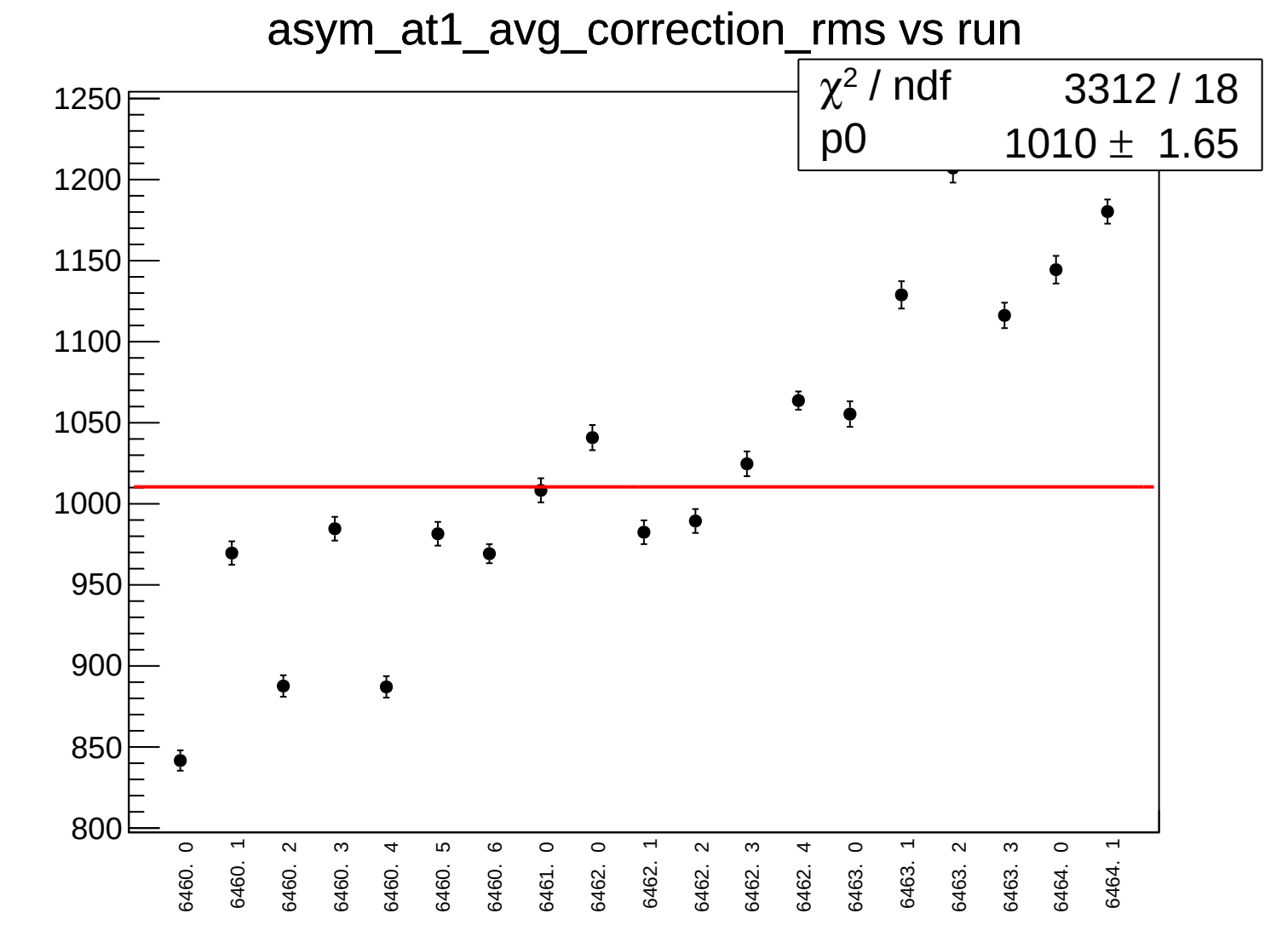

asym_atr_dd_rms vs run
χ² / ndf 154.5 / 18
p0 4033 ± 6.558
4200
4150
4100
4050
4000
3950
3900
3850
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

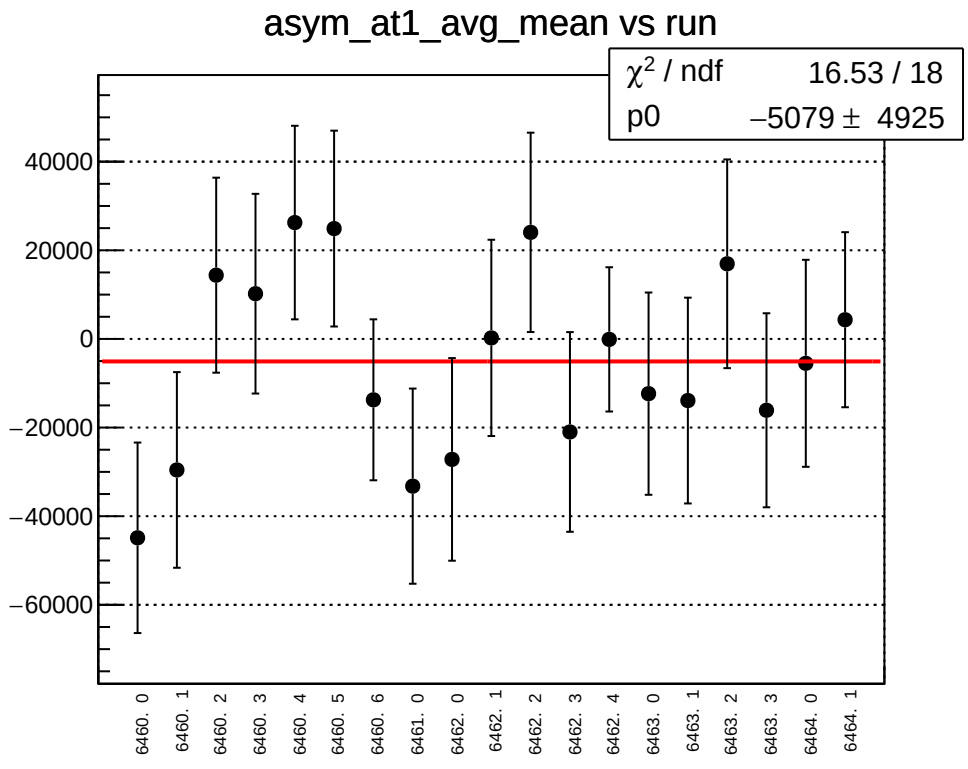

reg_asym_at1_avg_mean vs run
χ² / ndf 16.04 / 18
p0 −1723 ± 4321
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 157.4
Std Dev 149.1
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 19
Mean 0.00504
Std Dev 0.9189
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

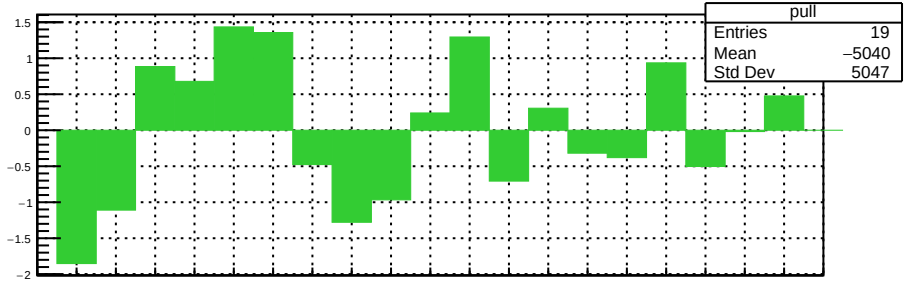

reg_asym_at1_avg_rms vs run
χ² / ndf 27.47 / 18
p0 1879 ± 3.055
1920
1910
1900
1890
1880
1870
1860
1850
1840
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

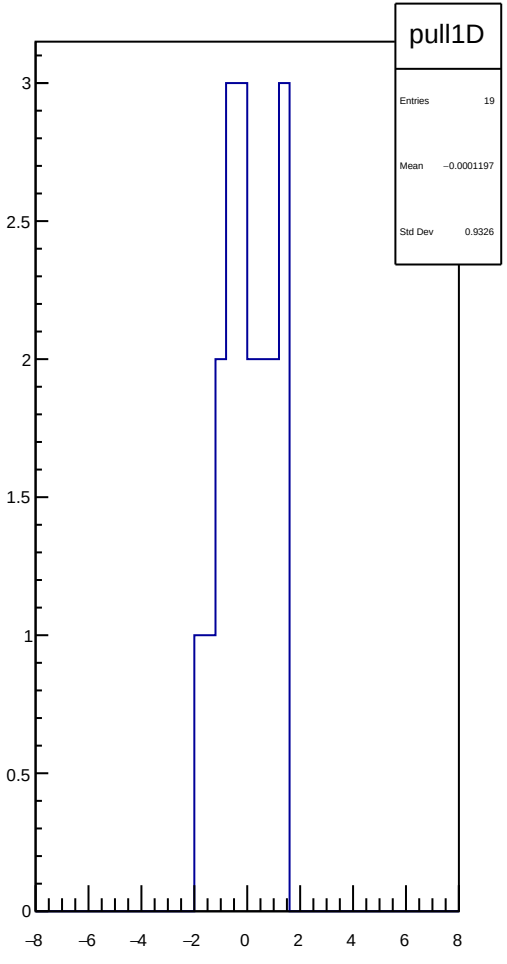

asym_at1_avg_correction_mean vs run
χ² / ndf 14.85 / 18
p0 3414 ± 2333
40000
30000
20000
10000
0
−10000
−20000
−30000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 13.98
Std Dev 26.56
1.5
1
0.5
0
−0.5
−1
−1.5

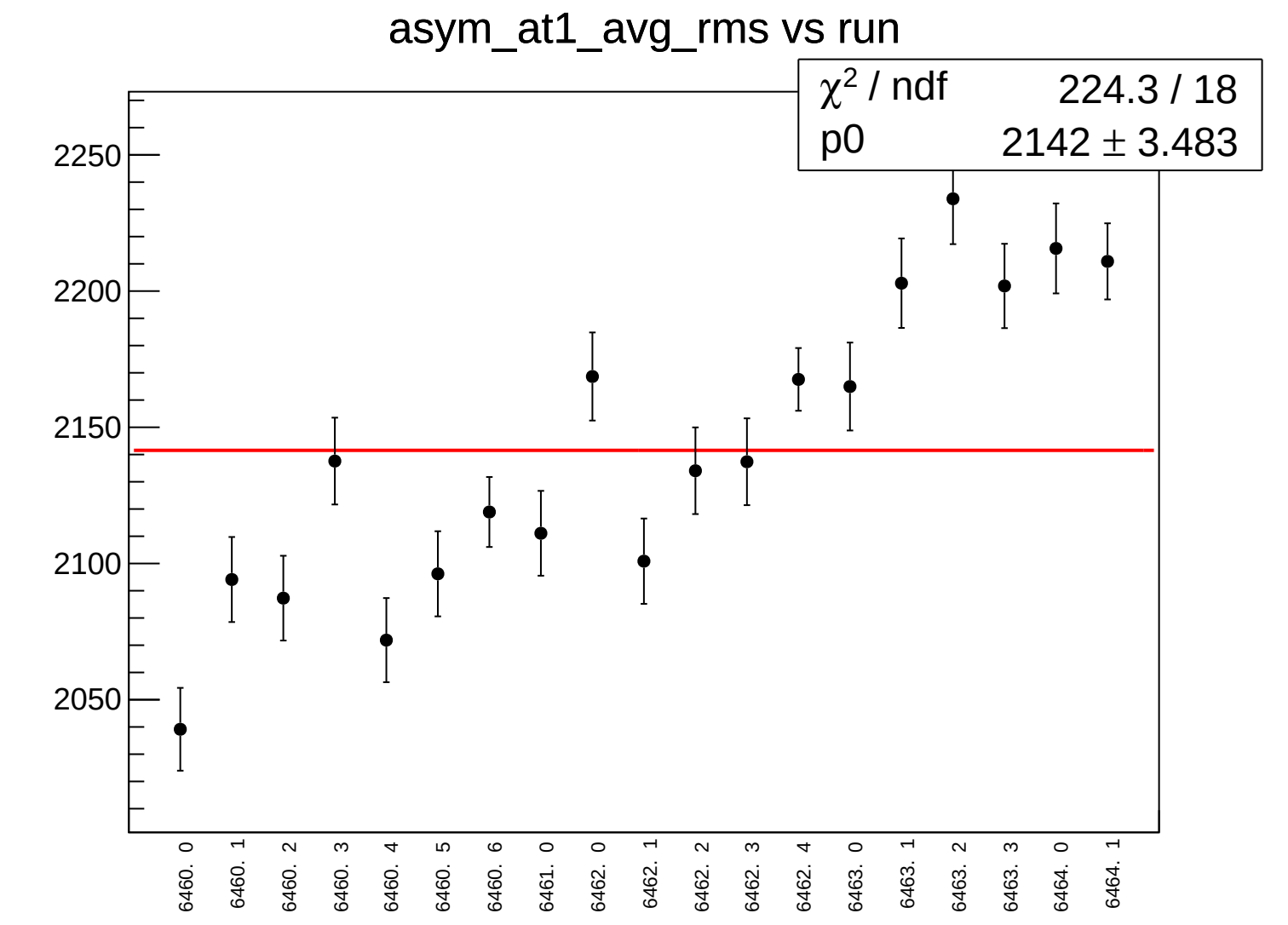

pull1D
Entries 19
Mean 0.006051
Std Dev 0.884
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

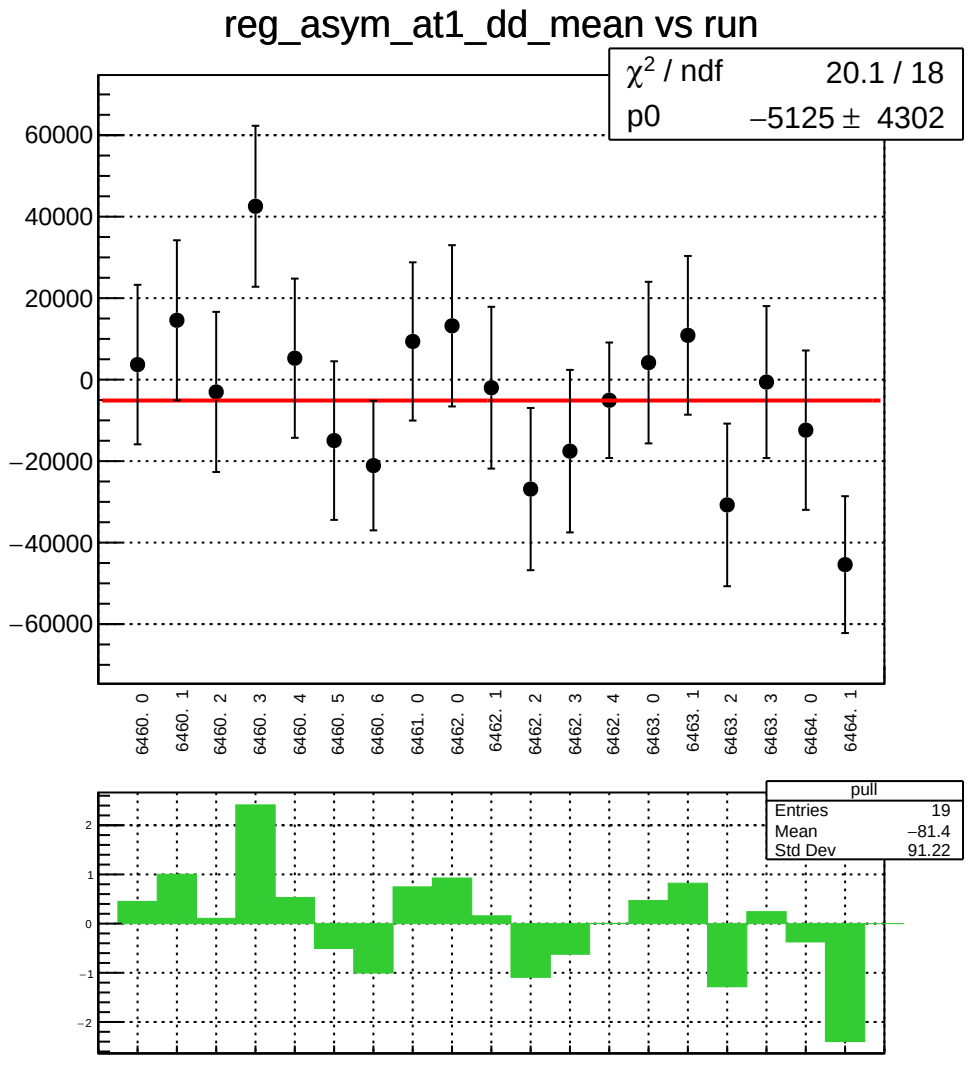

asym_at1_avg_correction_rms vs run
χ² / ndf 3312 / 18
p0 1010 ± 1.65
1250
1200
1150
1100
1050
1000
950
900
850
800
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

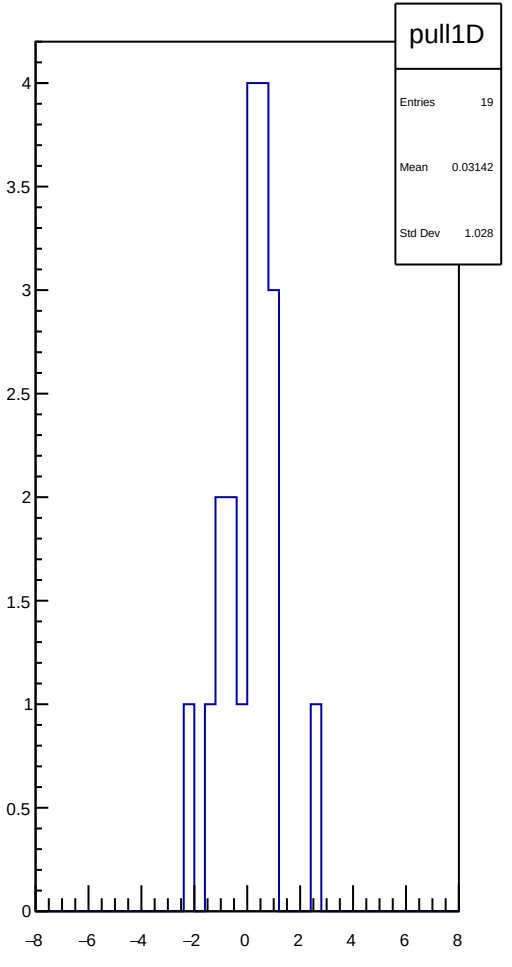

asym_at1_avg_mean vs run
χ² / ndf 16.53 / 18
p0 −5079 ± 4925
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

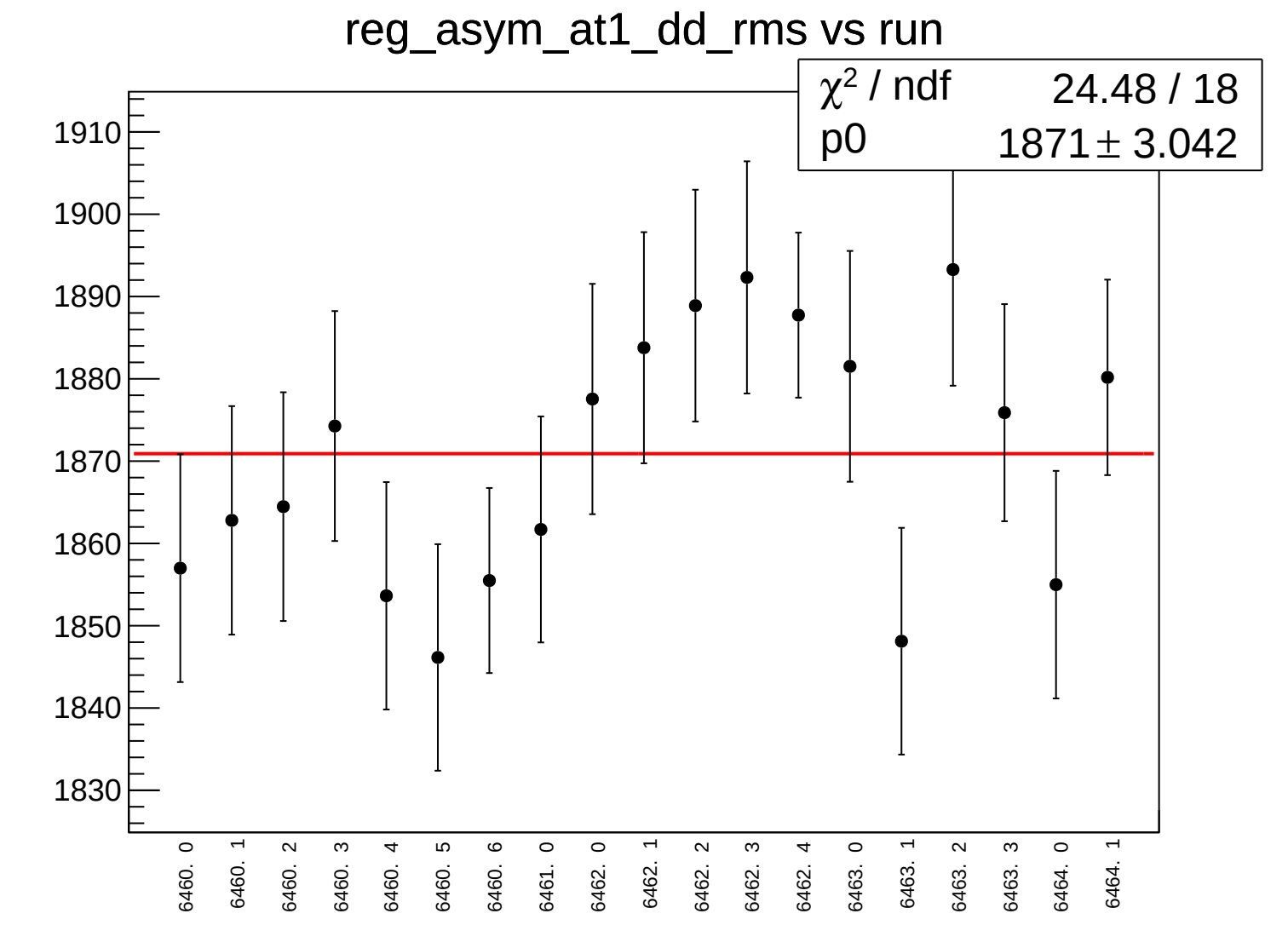

pull
Entries 19
Mean −5040
Std Dev 5047
1.5
1
0.5
0
−0.5
−1
−1.5
−2

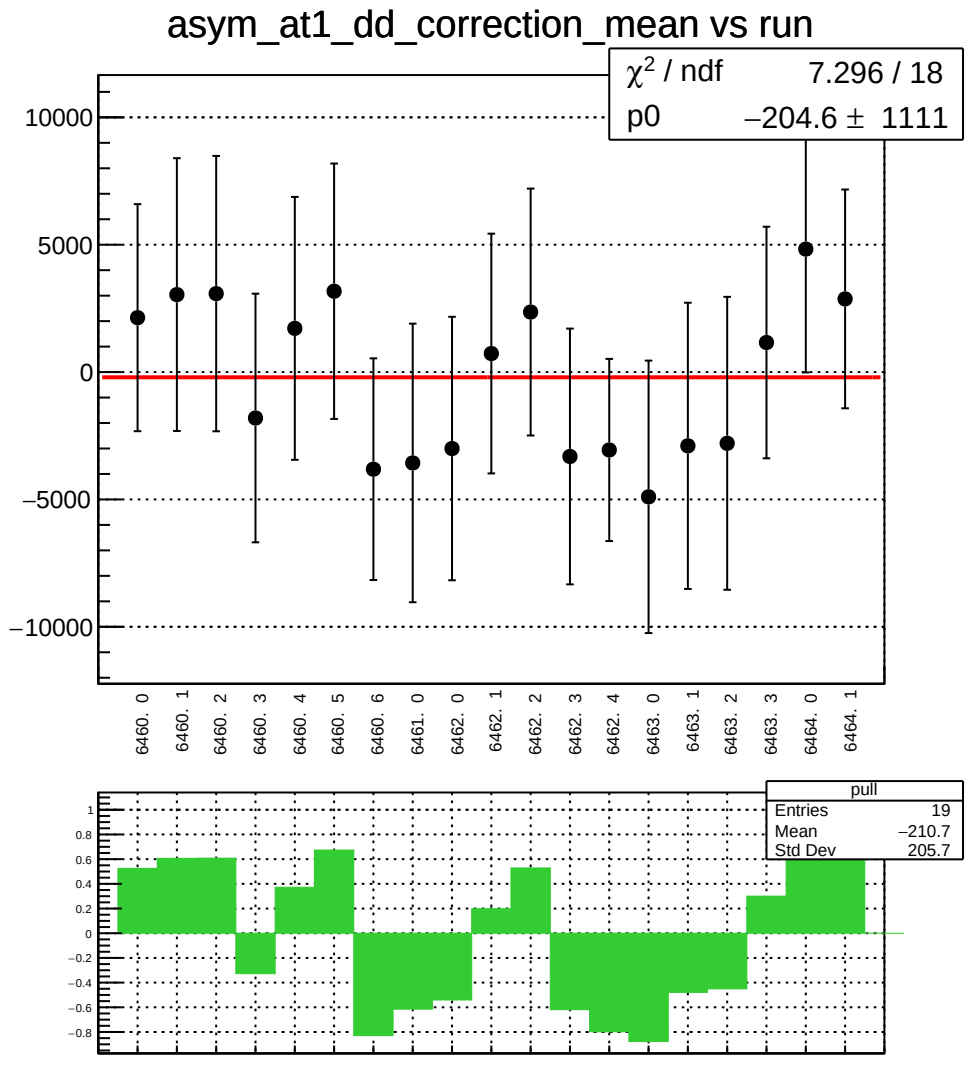

pull1D
Entries 19
Mean −0.0001197
Std Dev 0.9326
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

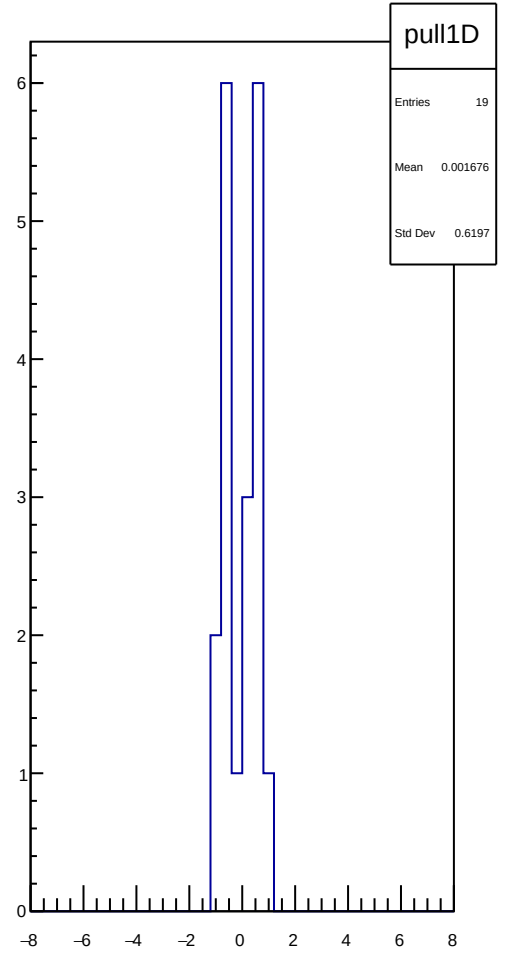

asym_at1_avg_rms vs run
χ² / ndf 224.3 / 18
p0 2142 ± 3.483
2250
2200
2150
2100
2050
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

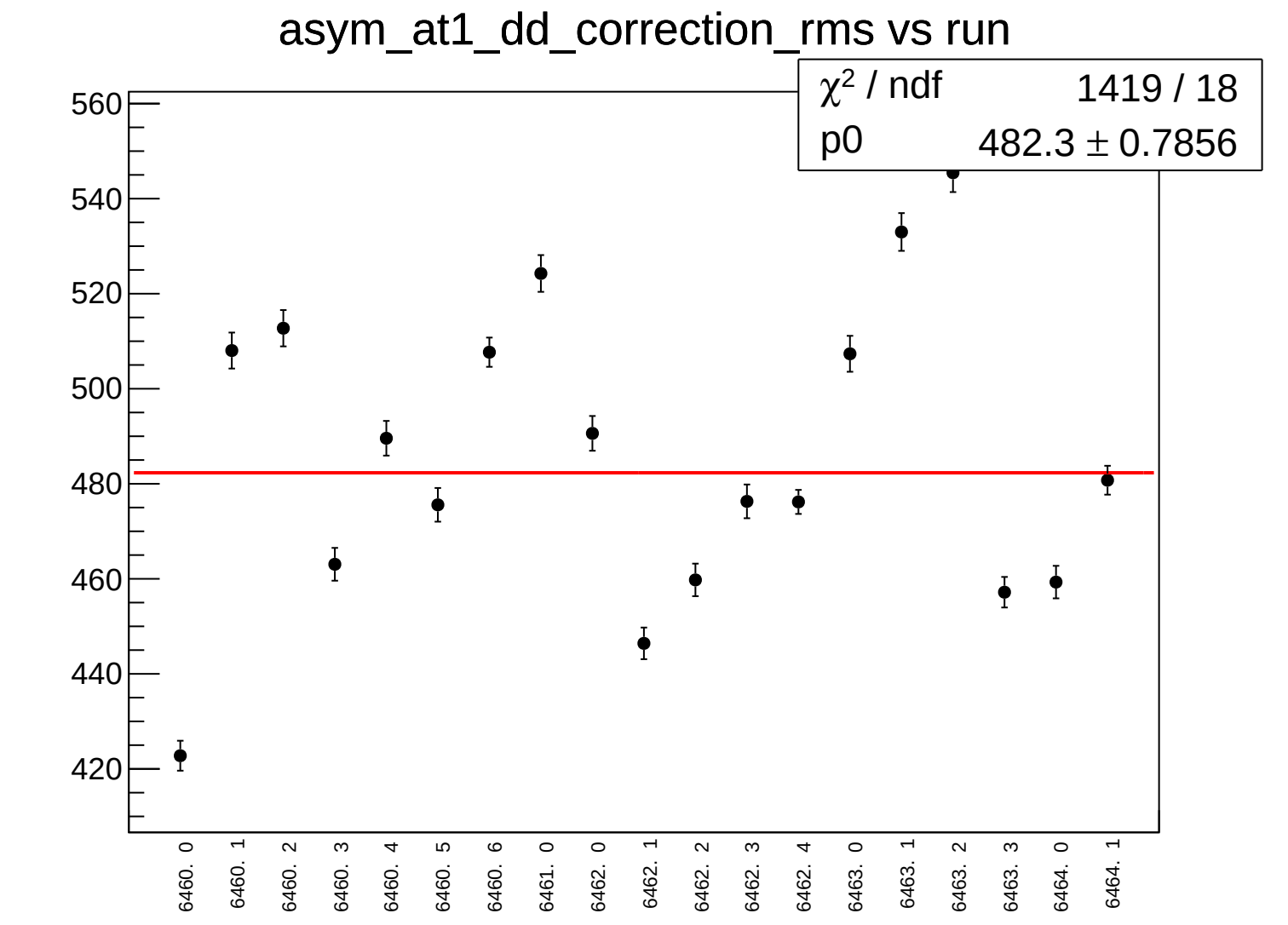

reg_asym_at1_dd_mean vs run
χ² / ndf 20.1 / 18
p0 −5125 ± 4302
60000
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −81.4
Std Dev 91.22
2
1
0
−1
−2

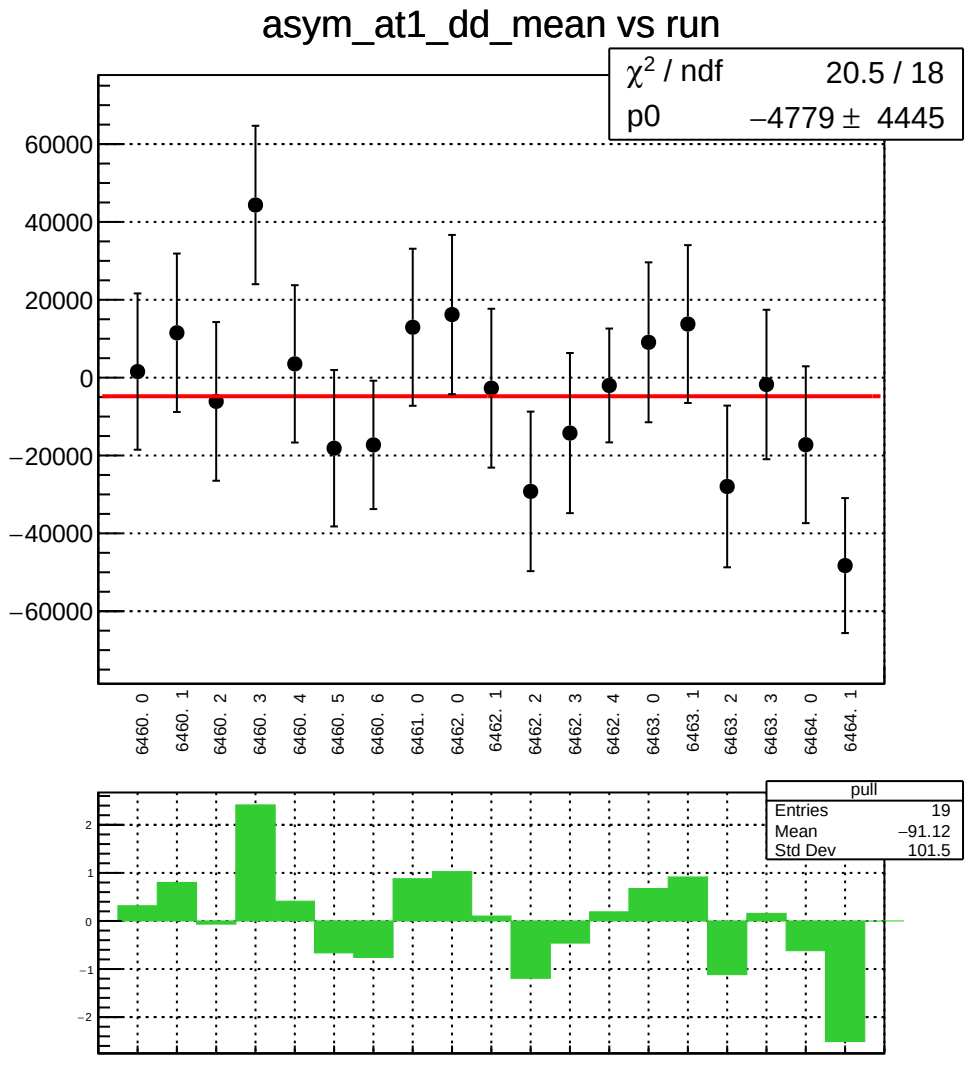

pull1D
Entries 19
Mean 0.03142
Std Dev 1.028
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

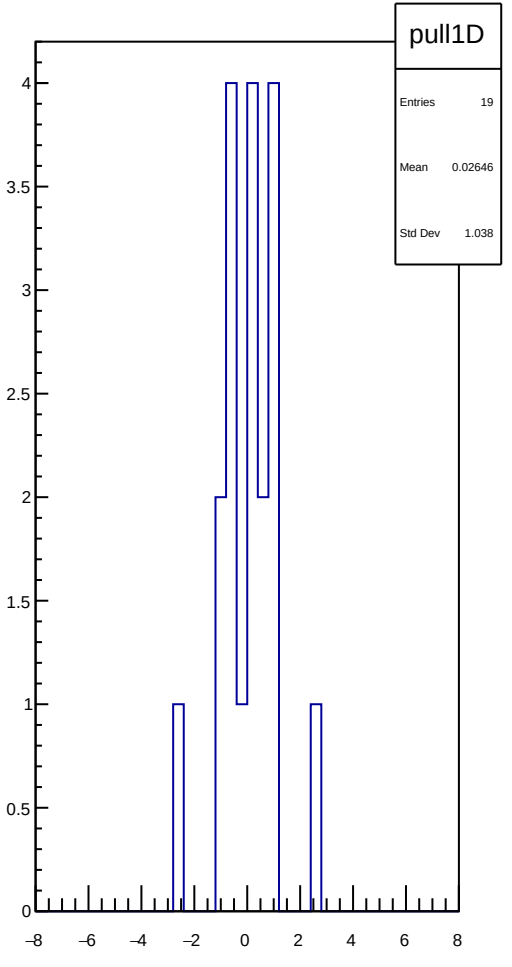

reg_asym_at1_dd_rms vs run
χ² / ndf 24.48 / 18
p0 1871 ± 3.042
1910
1900
1890
1880
1870
1860
1850
1840
1830
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

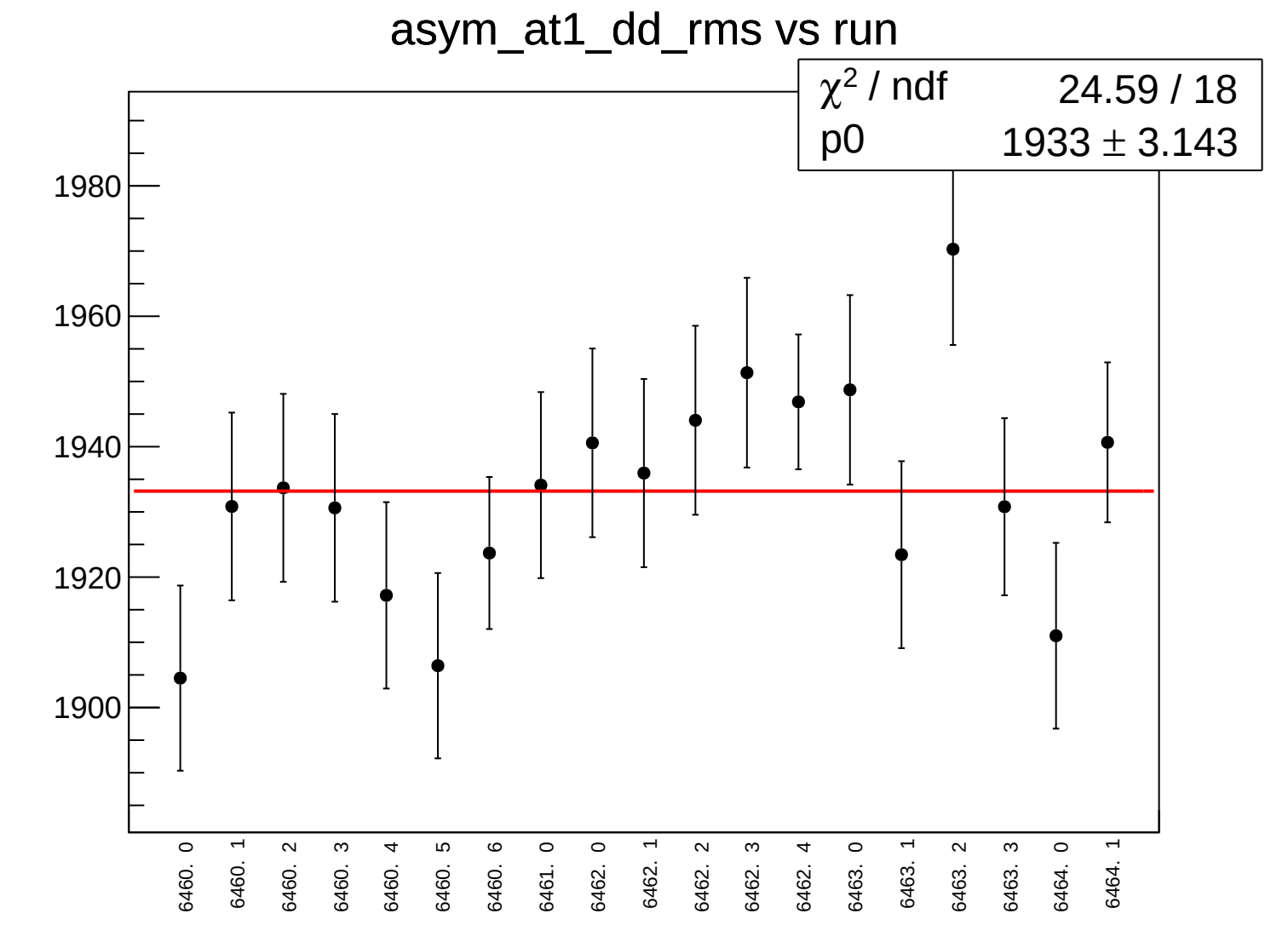

asym_at1_dd_correction_mean vs run
χ² / ndf 7.296 / 18
p0 −204.6 ± 1111
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −210.7
Std Dev 205.7
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

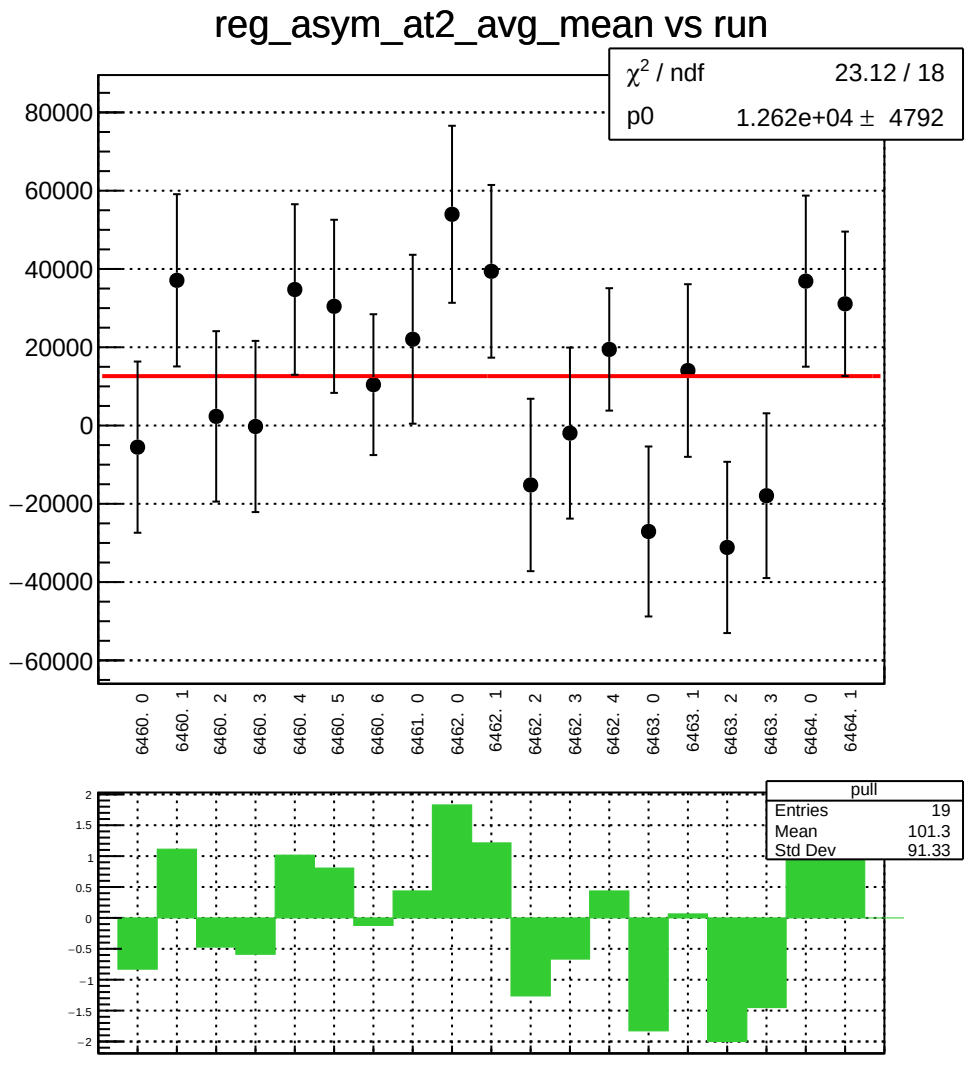

pull1D
Entries 19
Mean 0.001676
Std Dev 0.6197
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

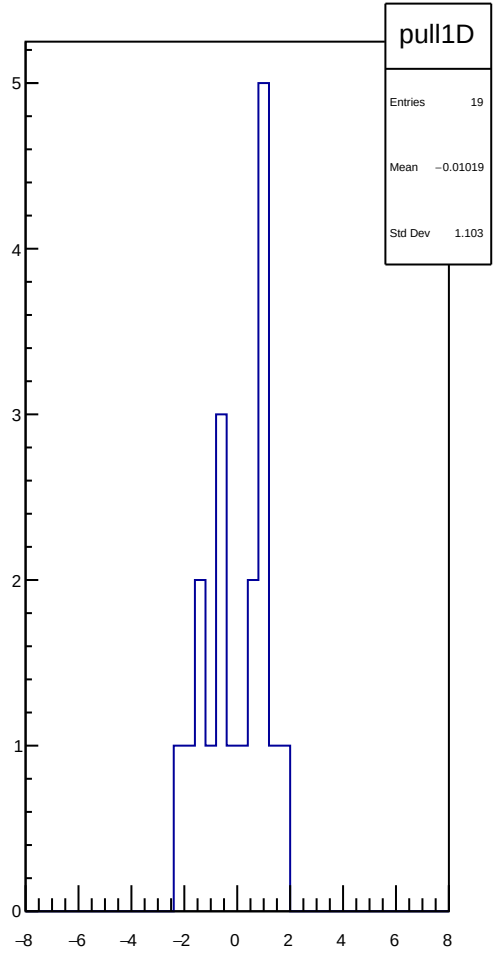

asym_at1_dd_correction_rms vs run
χ² / ndf 1419 / 18
p0 482.3 ± 0.7856
560
540
520
500
480
460
440
420
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

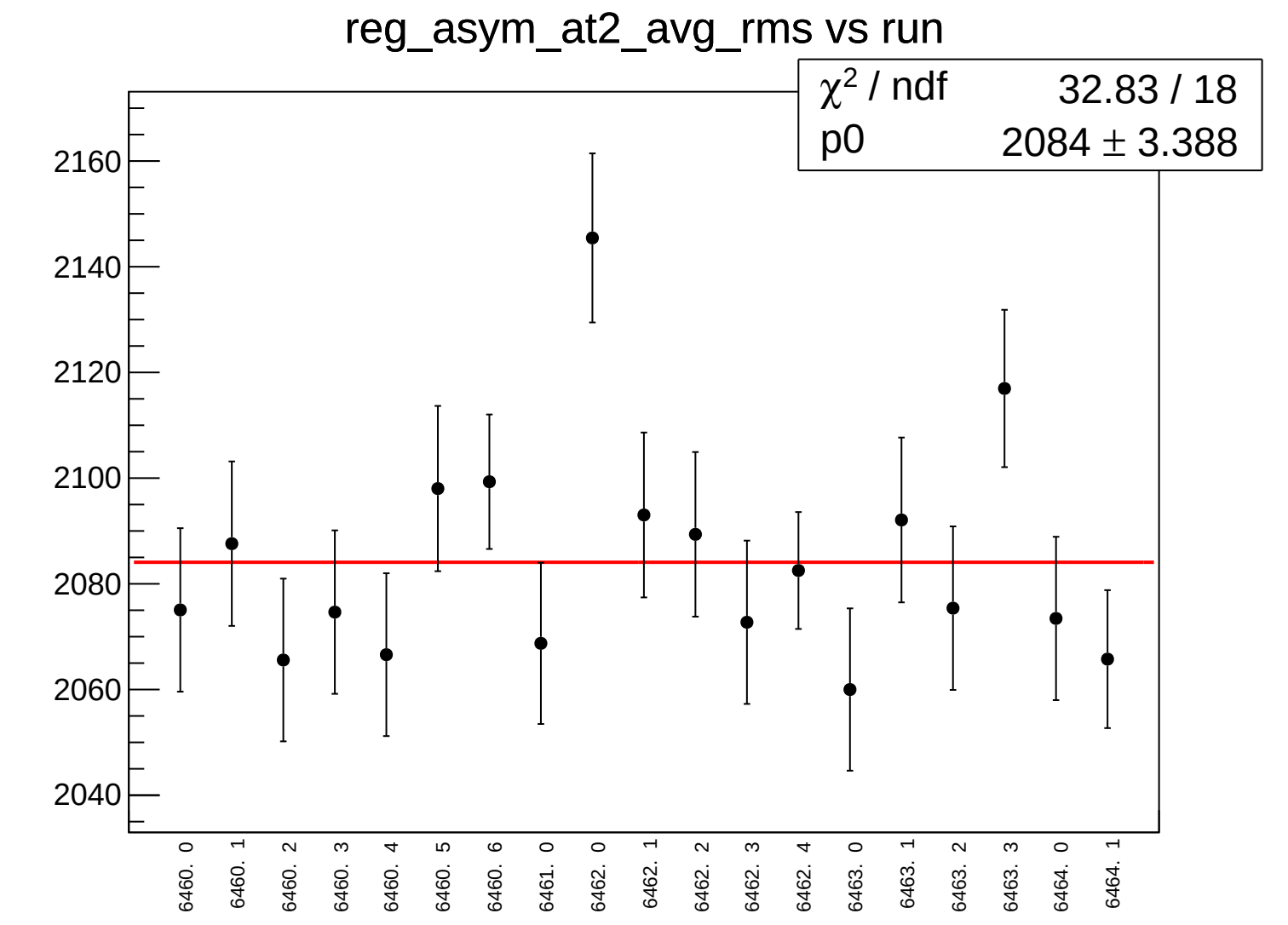

asym_at1_dd_mean vs run
χ² / ndf 20.5 / 18
p0 −4779 ± 4445
60000
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −91.12
Std Dev 101.5
2
1
0
−1
−2

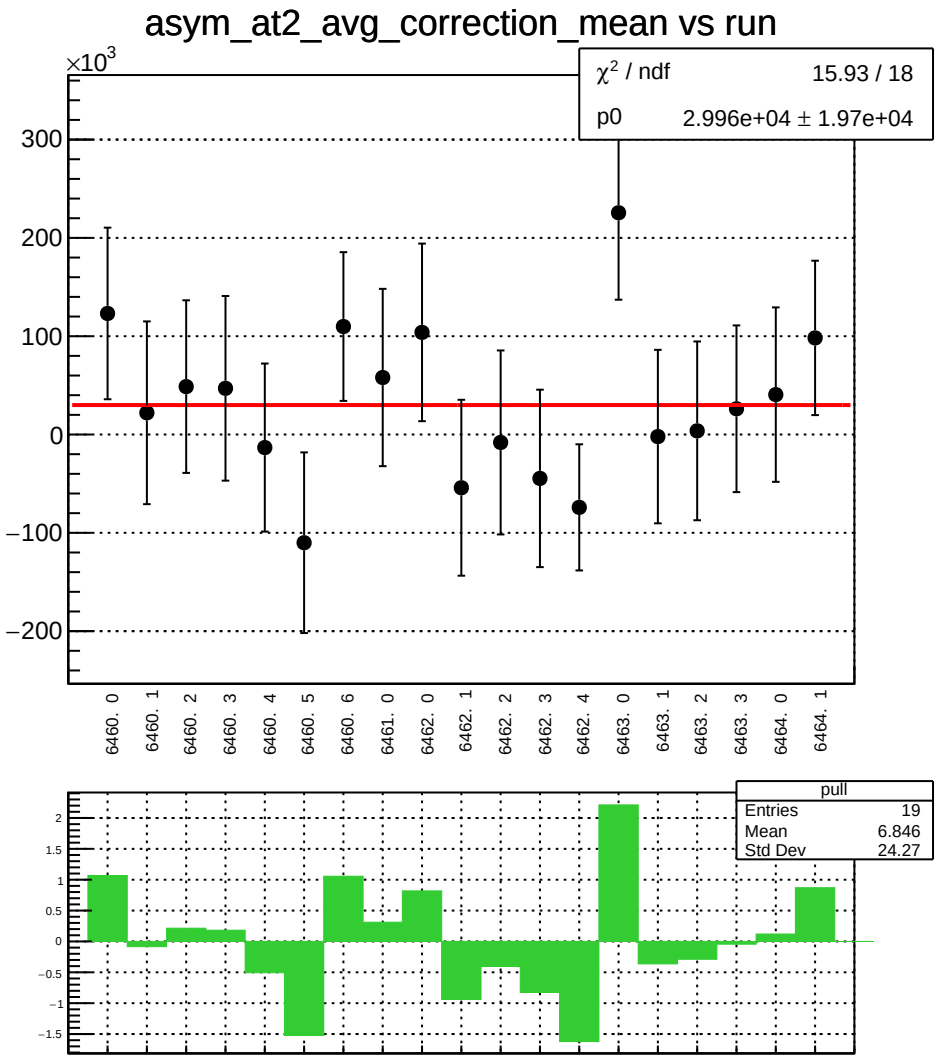

pull1D
Entries 19
Mean 0.02646
Std Dev 1.038
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

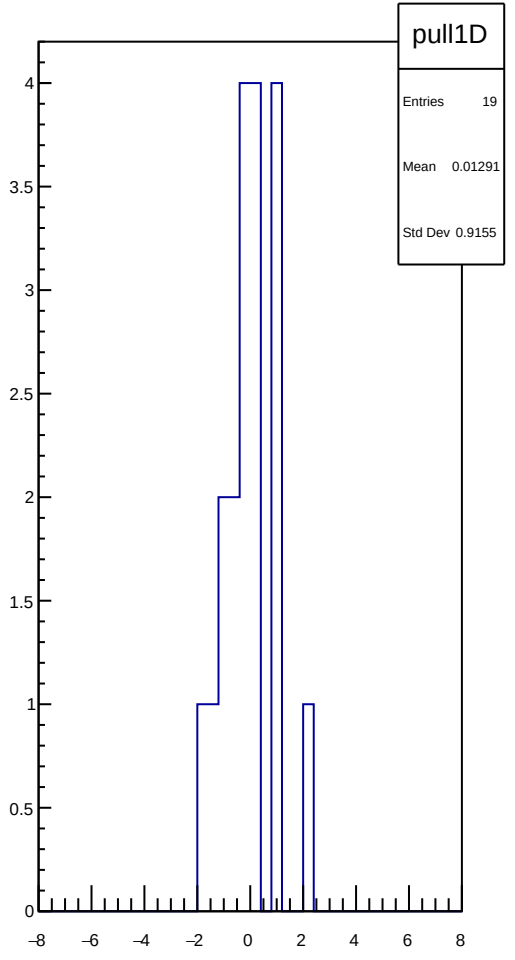

asym_at1_dd_rms vs run
χ² / ndf 24.59 / 18
p0 1933 ± 3.143
1980
1960
1940
1920
1900
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

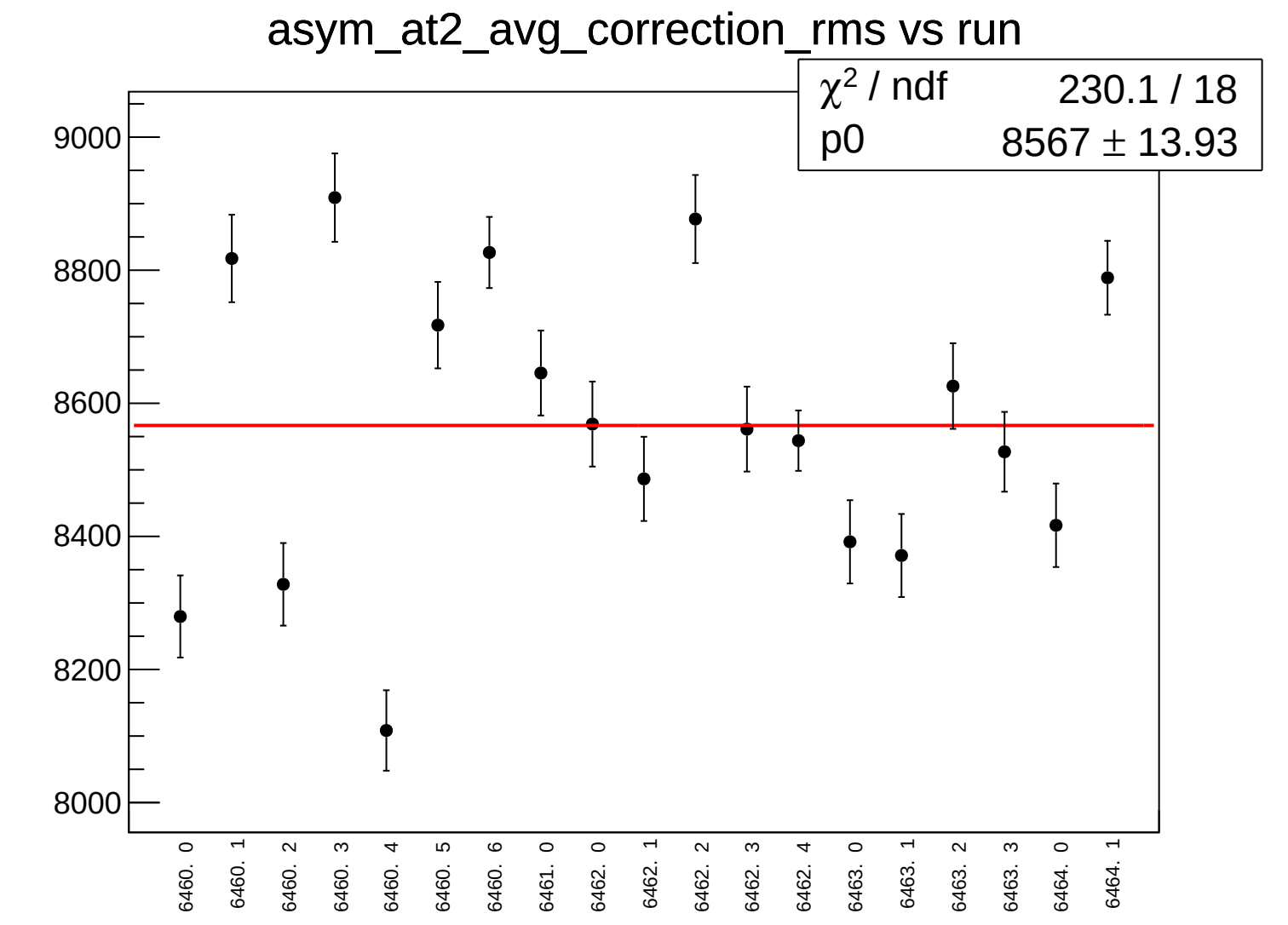

reg_asym_at2_avg_mean vs run
χ² / ndf 23.12 / 18
p0 1.262e+04 ± 4792
80000
60000
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 101.3
Std Dev 91.33
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

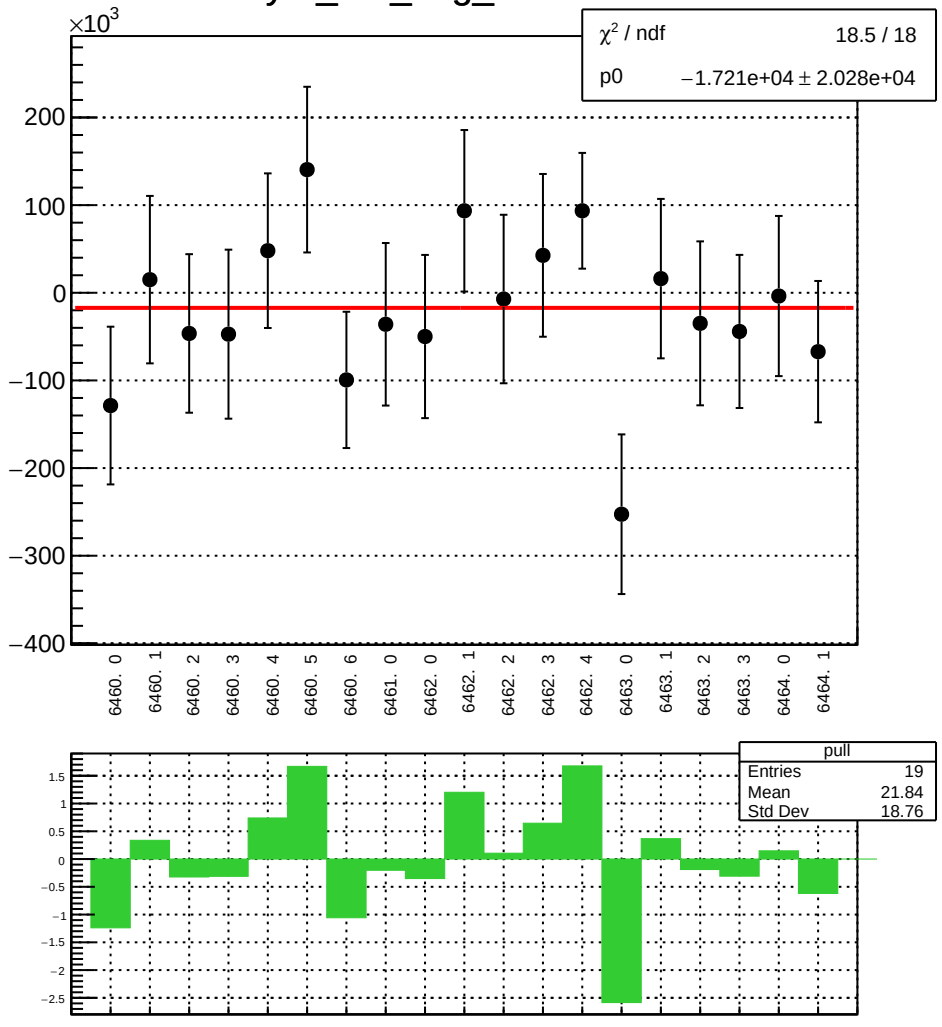

pull1D
Entries 19
Mean −0.01019
Std Dev 1.103
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

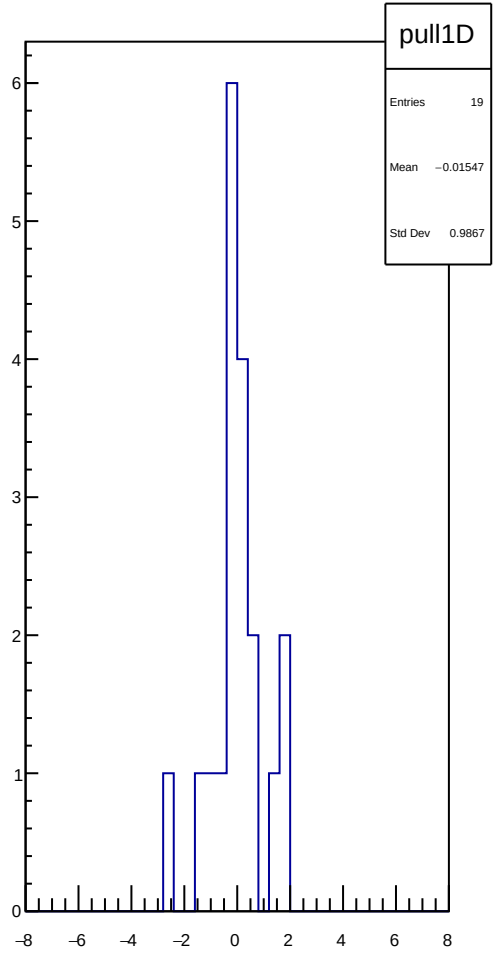

reg_asym_at2_avg_rms vs run
χ² / ndf 32.83 / 18
p0 2084 ± 3.388
2160
2140
2120
2100
2080
2060
2040
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

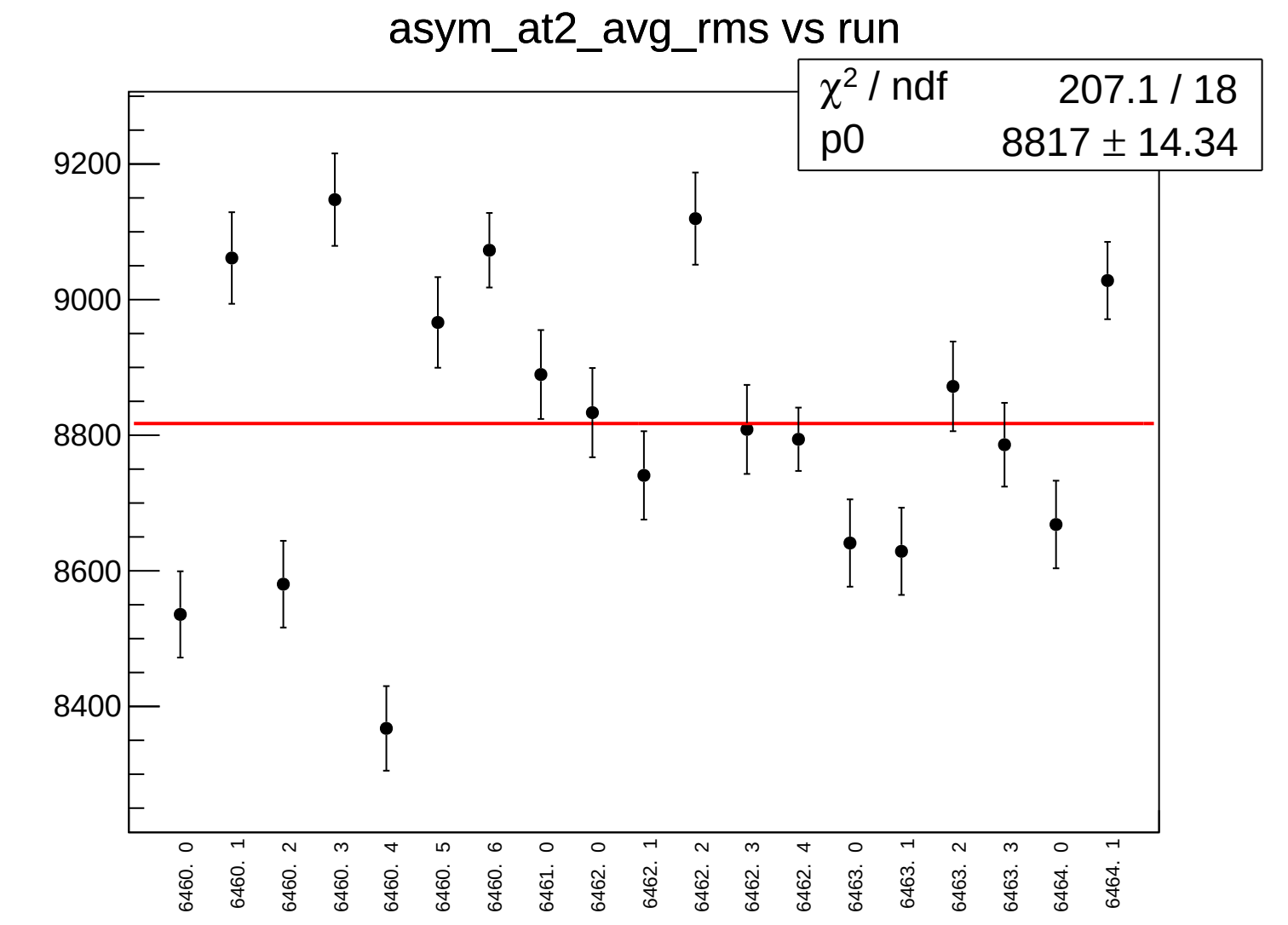

asym_at2_avg_correction_mean vs run
×10^3
χ² / ndf 15.93 / 18
p0 2.996e+04 ± 1.97e+04
300
200
100
0
−100
−200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 6.846
Std Dev 24.27
2
1.5
1
0.5
0
−0.5
−1
−1.5

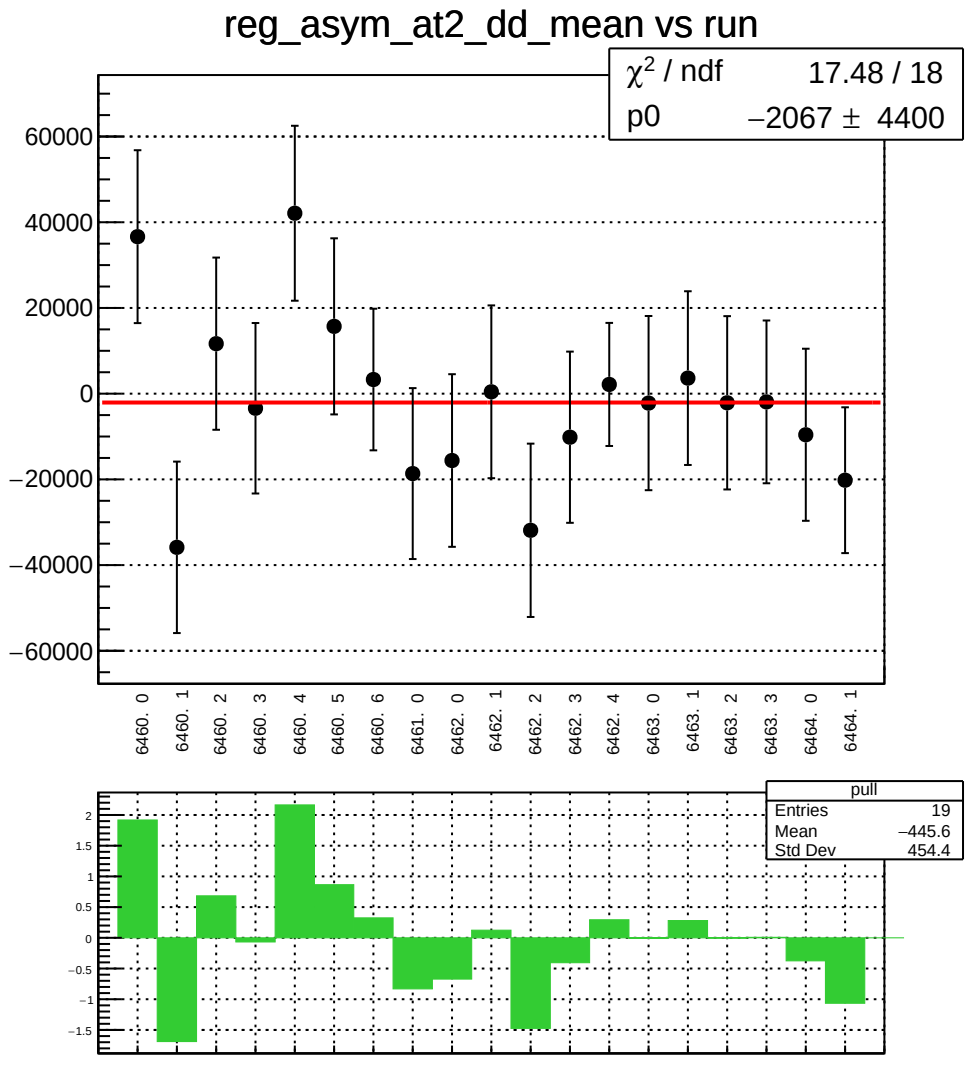

pull1D
Entries 19
Mean 0.01291
Std Dev 0.9155
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

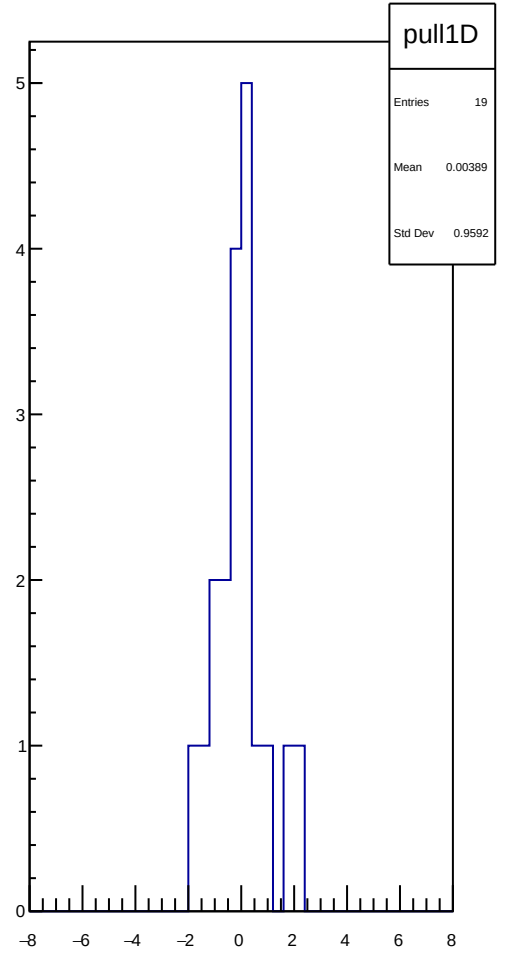

asym_at2_avg_correction_rms vs run
χ² / ndf 230.1 / 18
p0 8567 ± 13.93
9000
8800
8600
8400
8200
8000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

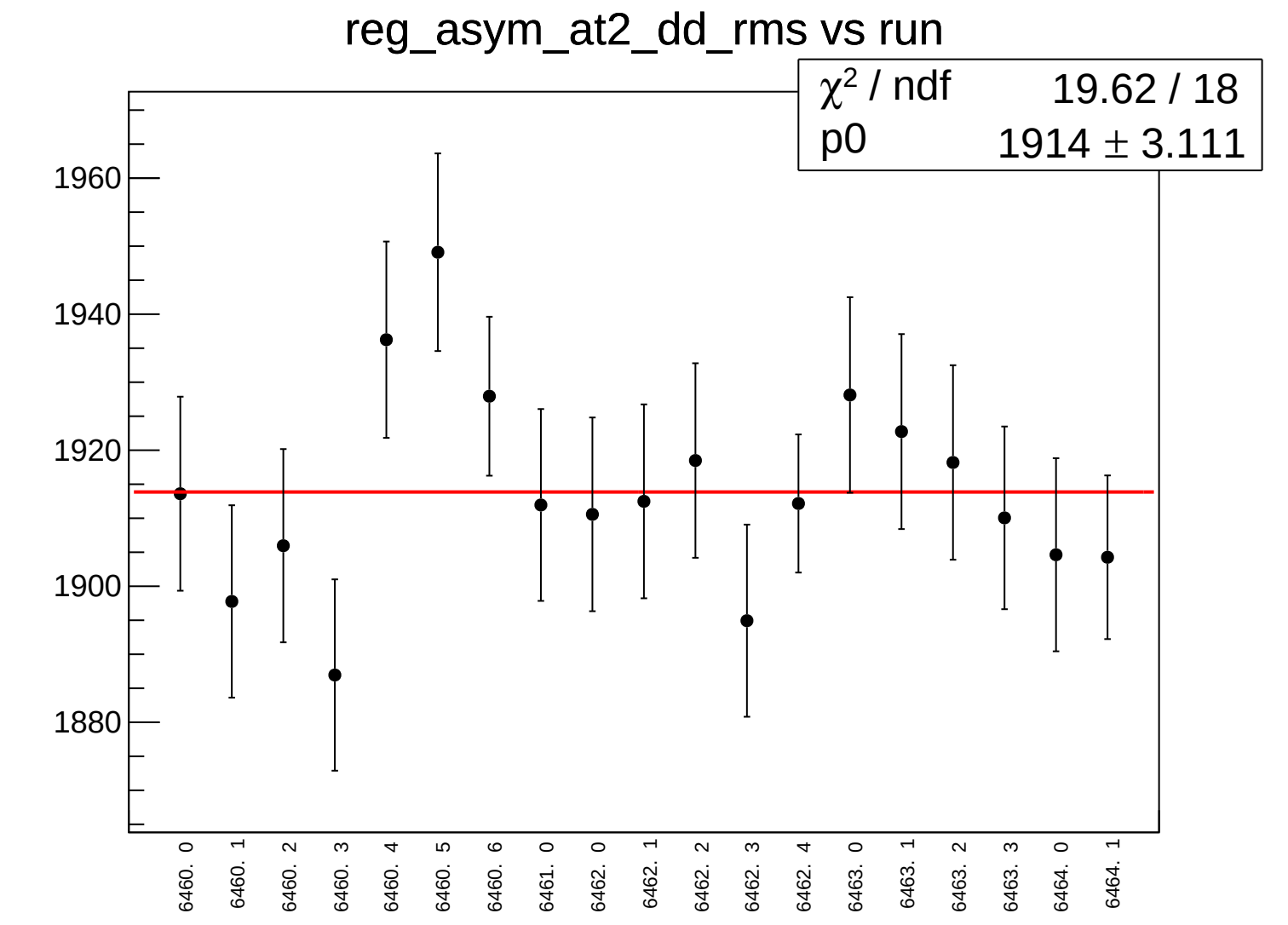

asym_at2_avg_mean vs run
×10^3
χ² / ndf 18.5 / 18
p0 −1.721e+04 ± 2.028e+04
200
100
0
−100
−200
−300
−400
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 21.84
Std Dev 18.76
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

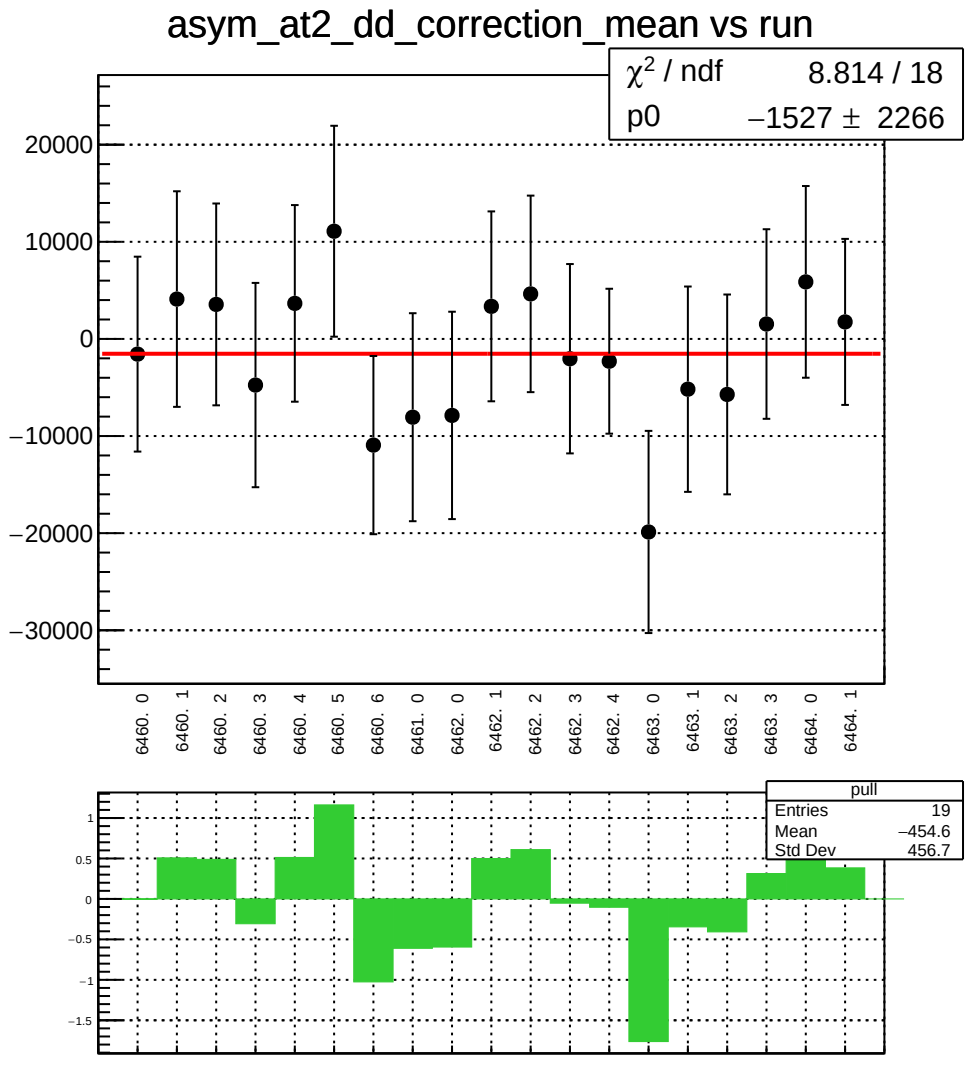

pull1D
Entries 19
Mean −0.01547
Std Dev 0.9867
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

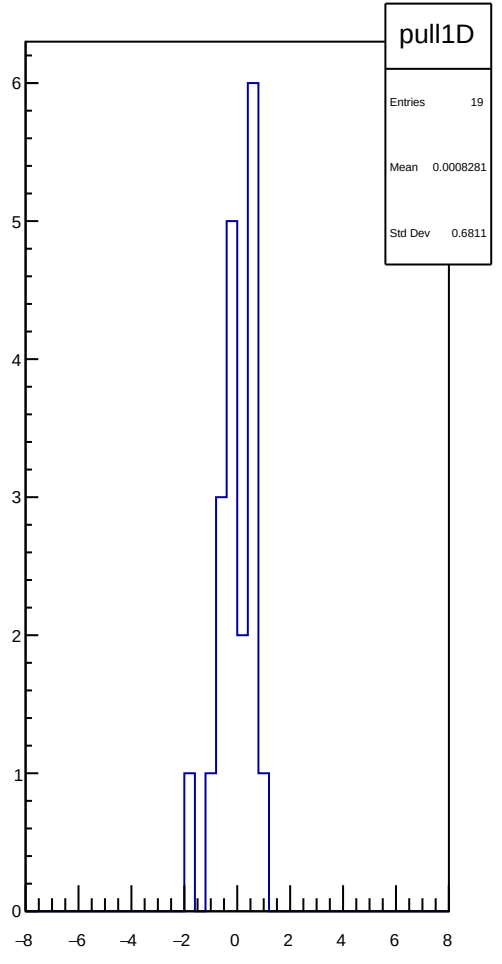

asym_at2_avg_rms vs run
χ² / ndf 207.1 / 18
p0 8817 ± 14.34
9200
9000
8800
8600
8400
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

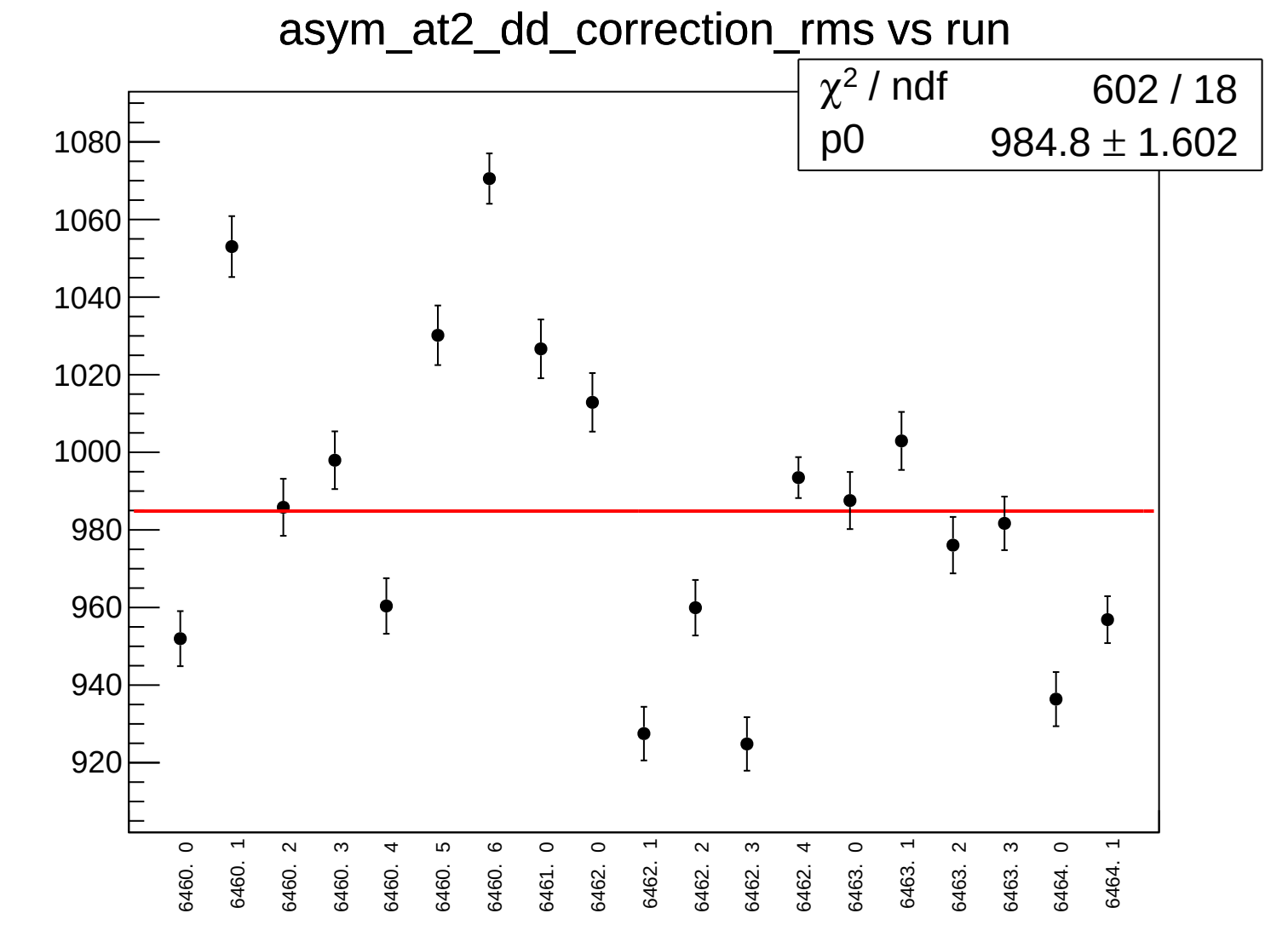

reg_asym_at2_dd_mean vs run
χ² / ndf 17.48 / 18
p0 −2067 ± 4400
60000
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −445.6
Std Dev 454.4
2
1.5
1
0.5
0
−0.5
−1
−1.5

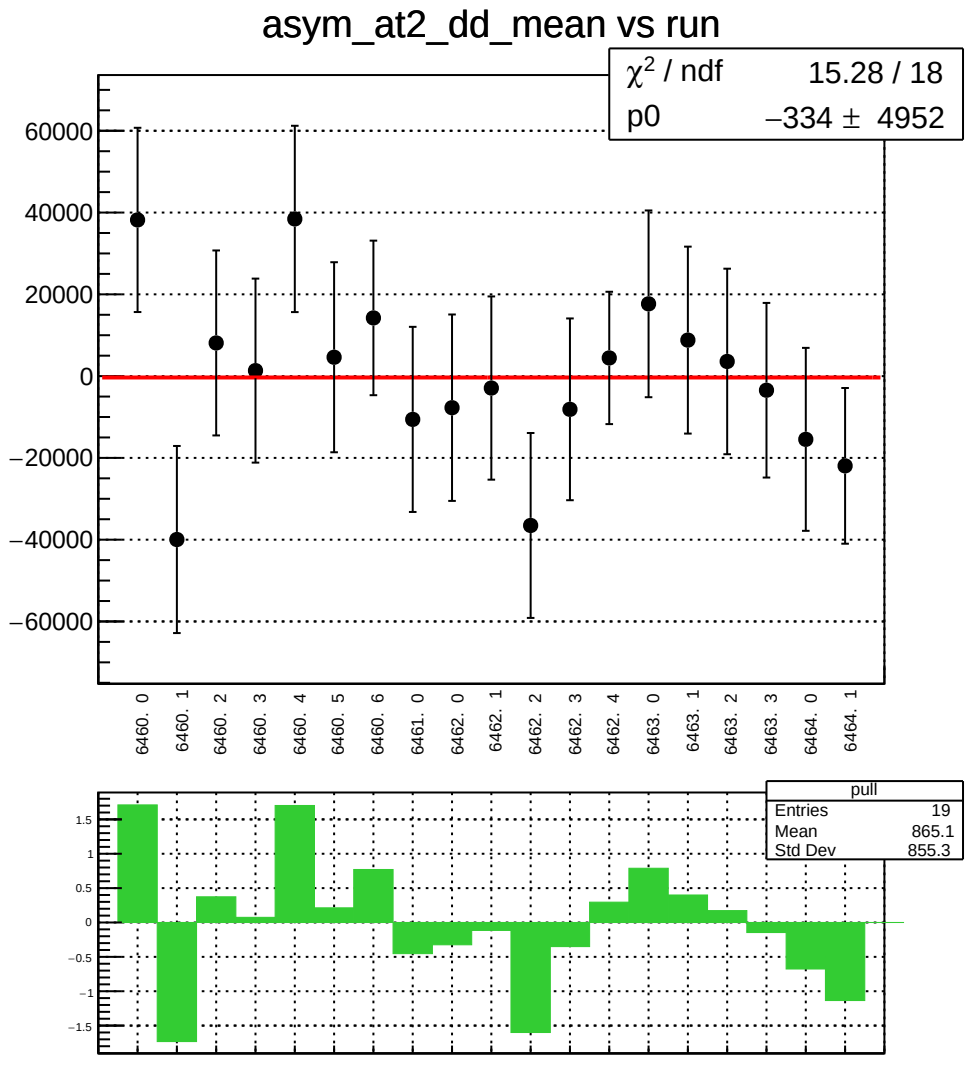

pull1D
Entries 19
Mean 0.00389
Std Dev 0.9592
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

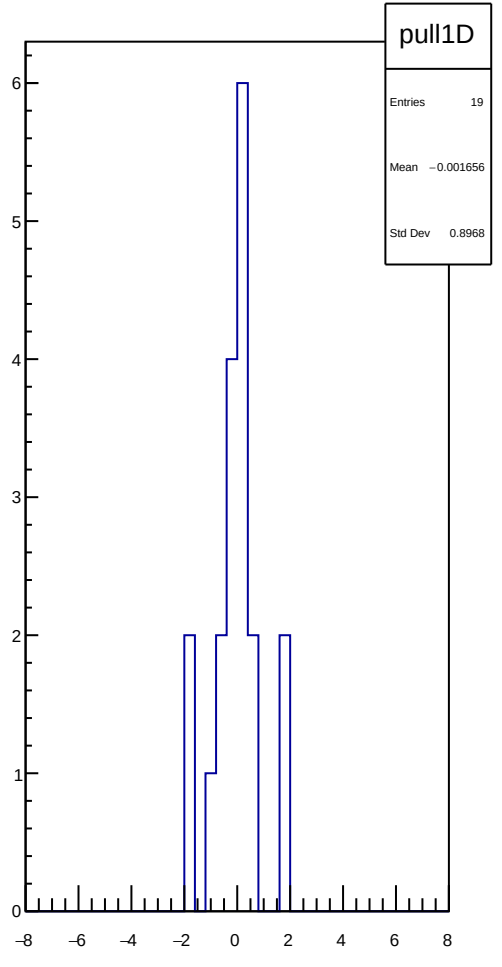

reg_asym_at2_dd_rms vs run
χ² / ndf 19.62 / 18
p0 1914 ± 3.111
1960
1940
1920
1900
1880
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

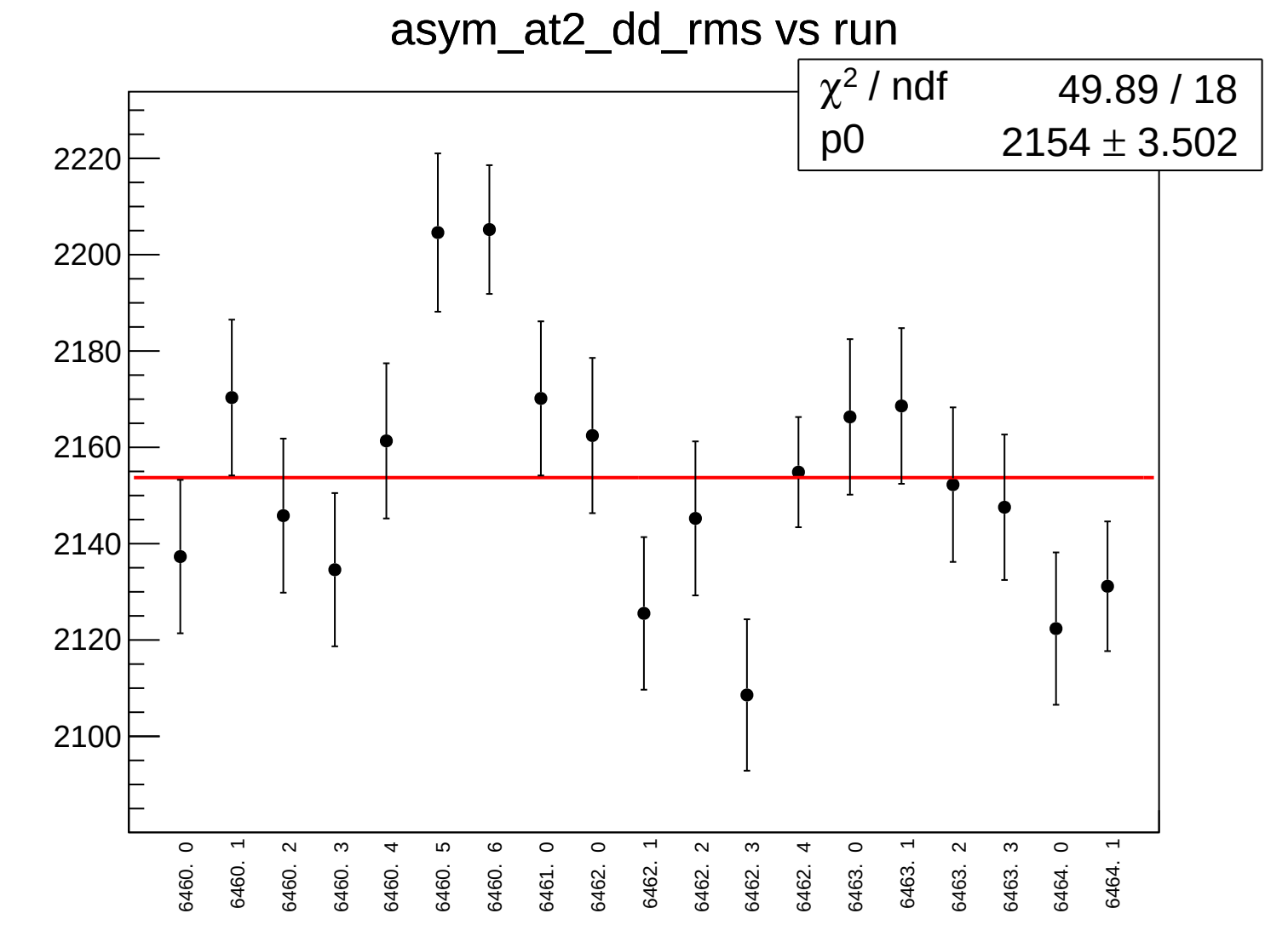

asym_at2_dd_correction_mean vs run
χ² / ndf 8.814 / 18
p0 −1527 ± 2266
20000
10000
0
−10000
−20000
−30000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −454.6
Std Dev 456.7
1
0.5
0
−0.5
−1
−1.5

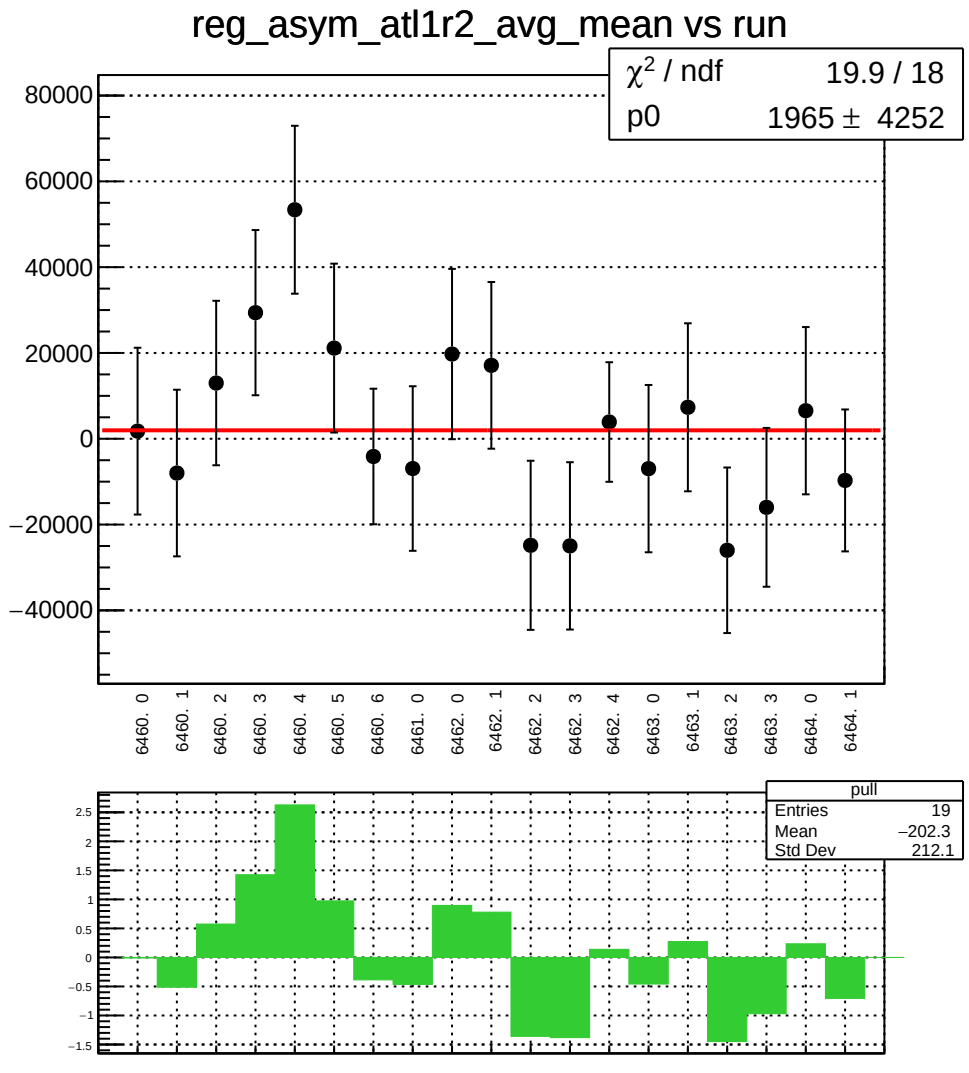

pull1D
Entries 19
Mean 0.0008281
Std Dev 0.6811
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

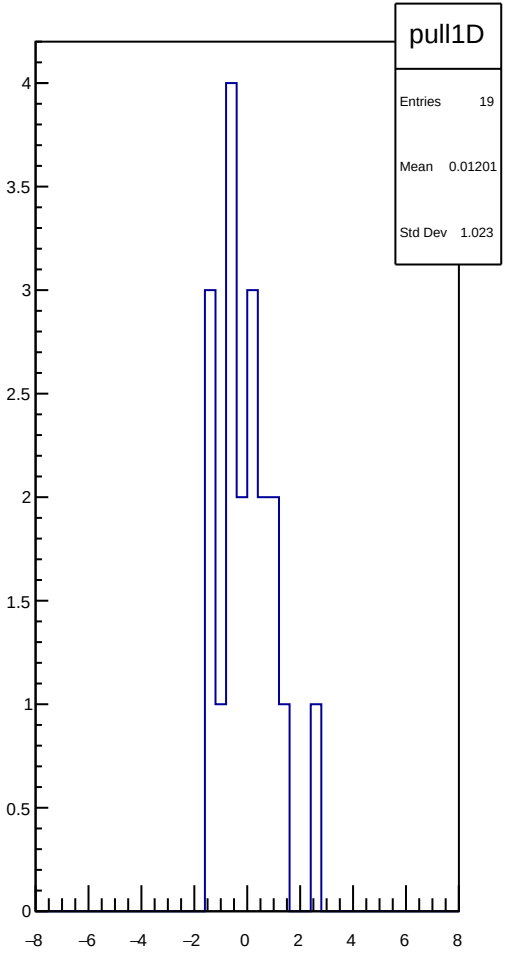

asym_at2_dd_correction_rms vs run
χ² / ndf 602 / 18
p0 984.8 ± 1.602
1080
1060
1040
1020
1000
980
960
940
920
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

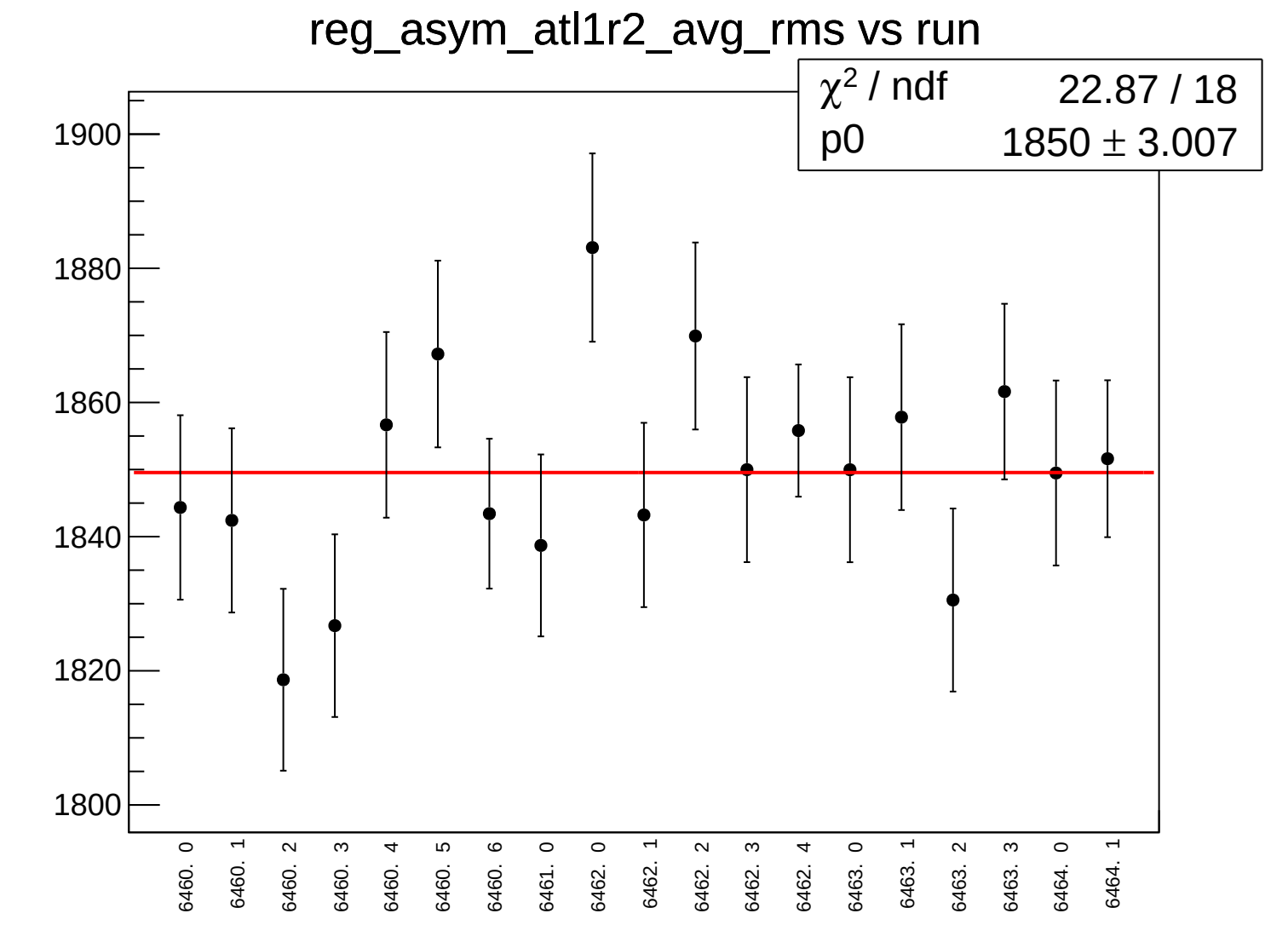

asym_at2_dd_mean vs run
χ² / ndf 15.28 / 18
p0 −334 ± 4952
60000
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 865.1
Std Dev 855.3
1.5
1
0.5
0
−0.5
−1
−1.5

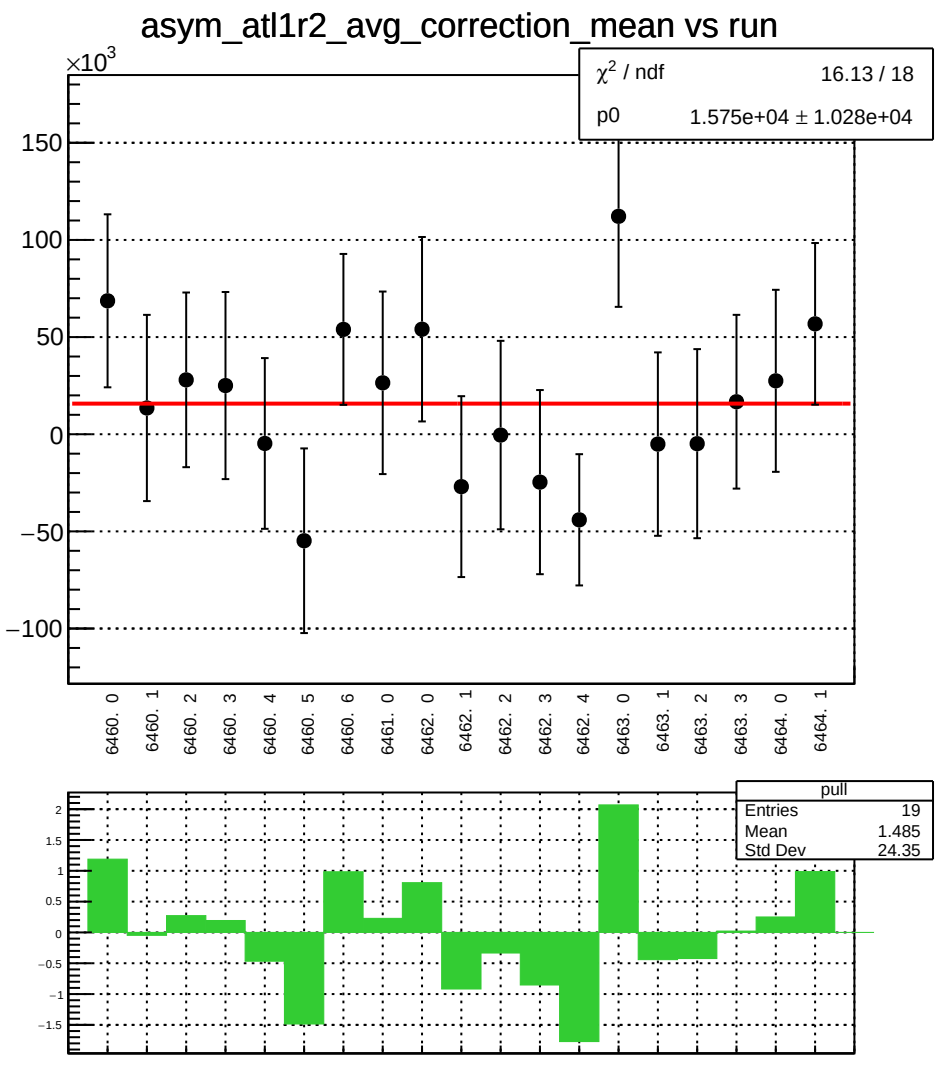

pull1D
Entries 19
Mean −0.001656
Std Dev 0.8968
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

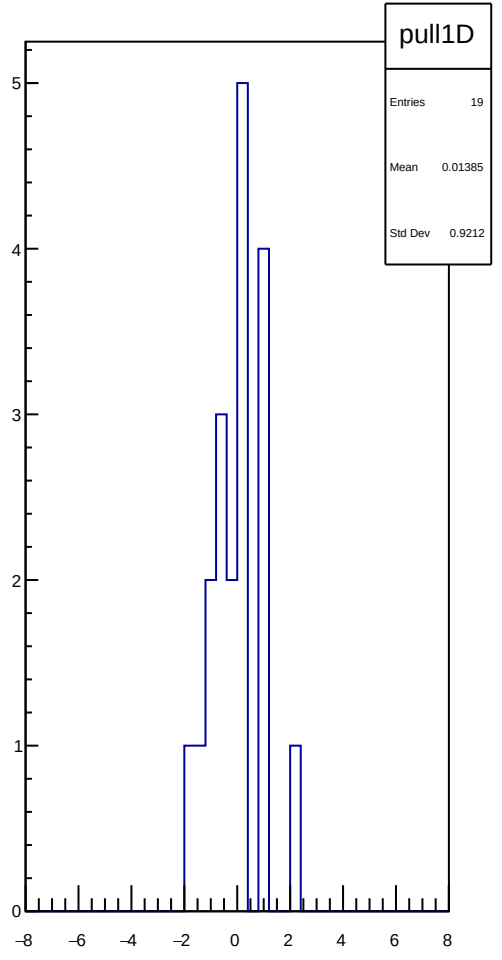

asym_at2_dd_rms vs run
χ² / ndf 49.89 / 18
p0 2154 ± 3.502
2220
2200
2180
2160
2140
2120
2100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

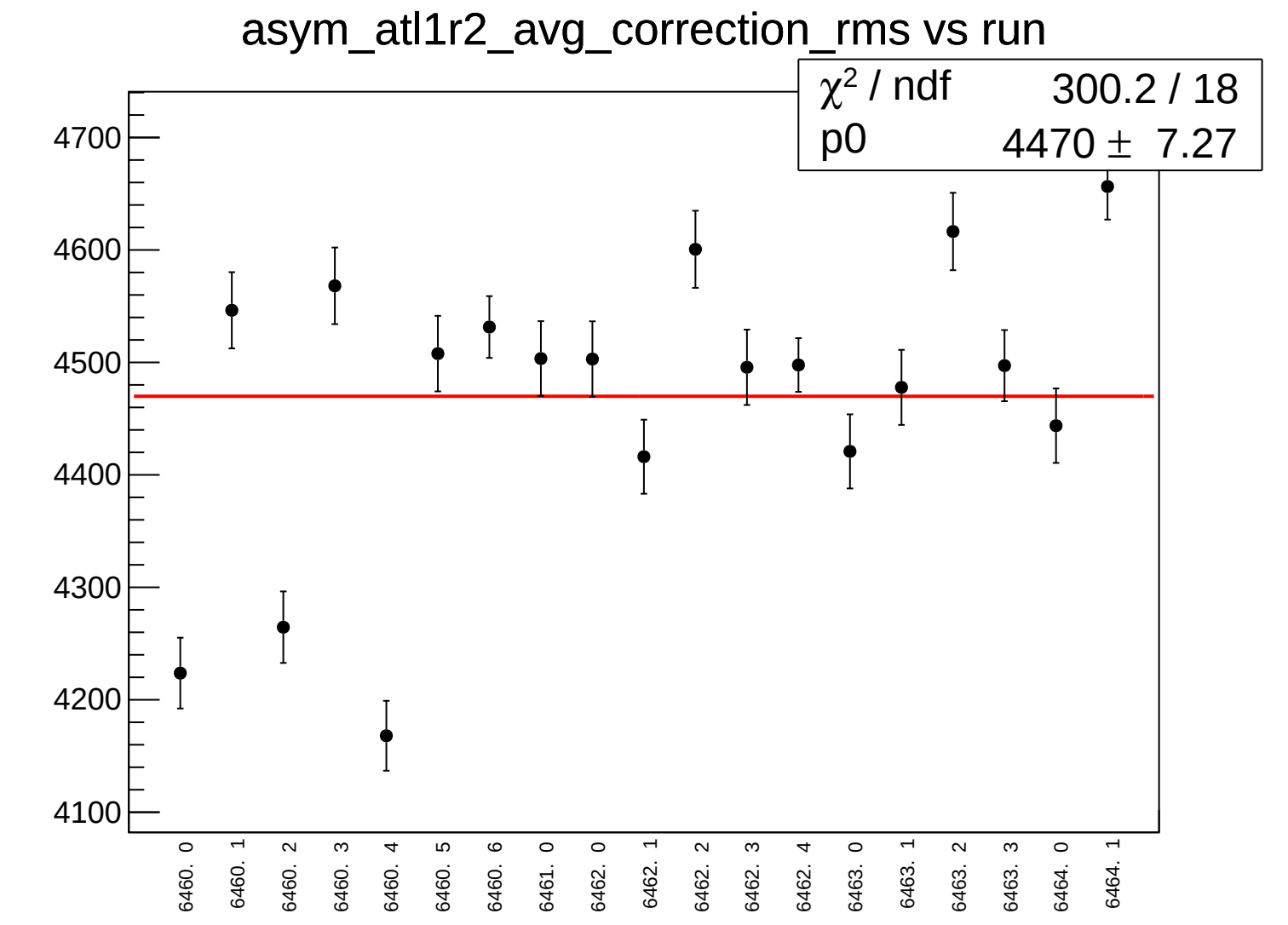

reg_asym_atl1r2_avg_mean vs run
χ² / ndf 19.9 / 18
p0 1965 ± 4252
80000
60000
40000
20000
0
−20000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −202.3
Std Dev 212.1
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

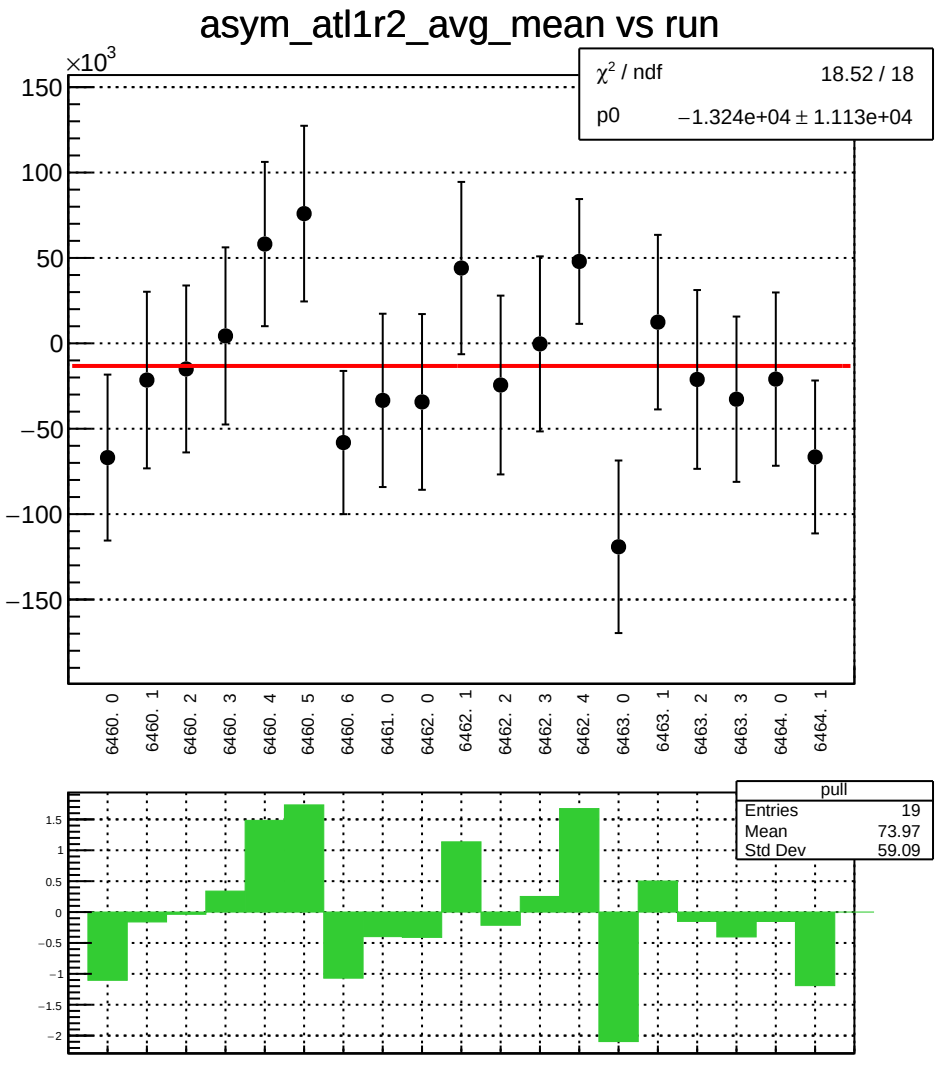

pull1D
Entries 19
Mean 0.01201
Std Dev 1.023
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

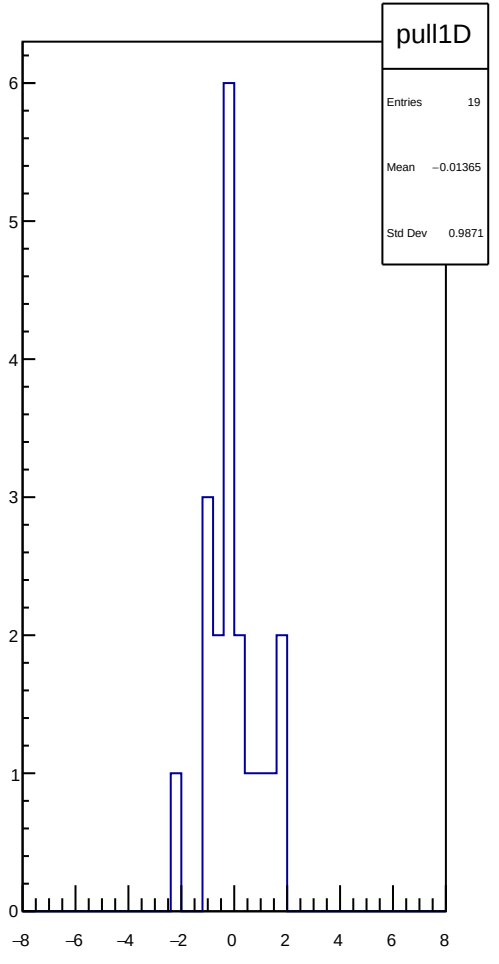

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 22.87 / 18
p0 1850 ± 3.007
1900
1880
1860
1840
1820
1800
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

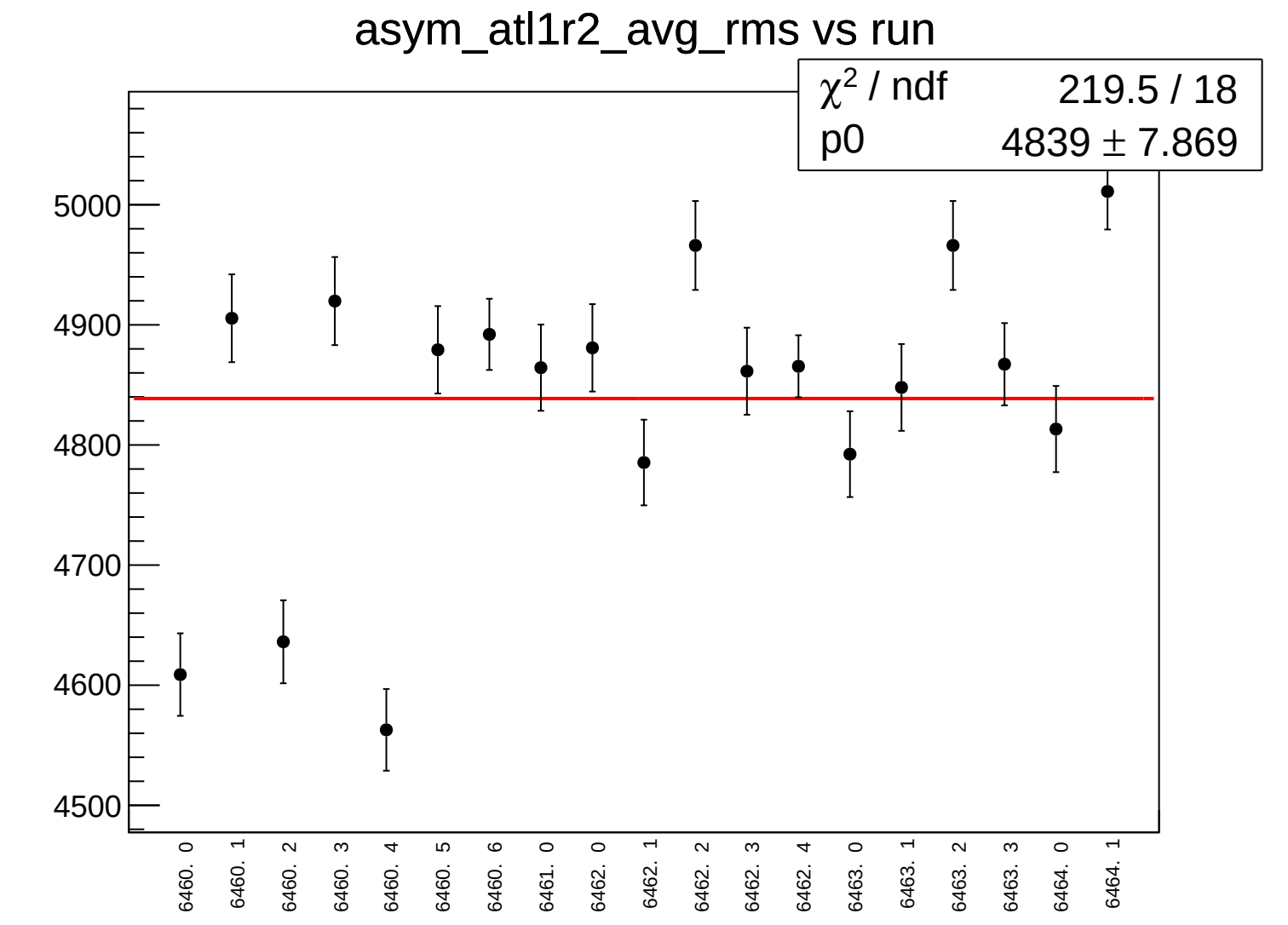

asym_atl1r2_avg_correction_mean vs run
×10^3
χ² / ndf 16.13 / 18
p0 1.575e+04 ± 1.028e+04
150
100
50
0
−50
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 1.485
Std Dev 24.35
2
1.5
1
0.5
0
−0.5
−1
−1.5

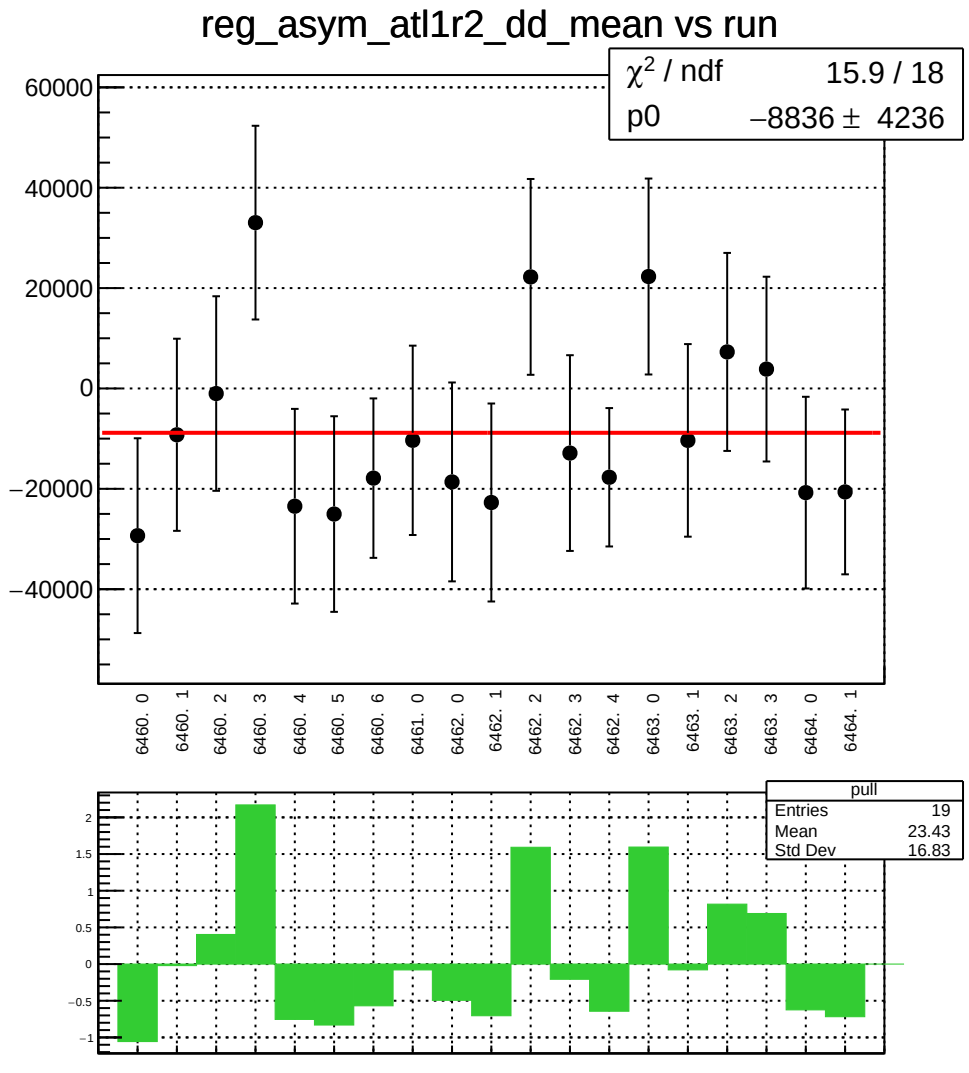

pull1D
Entries 19
Mean 0.01385
Std Dev 0.9212
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

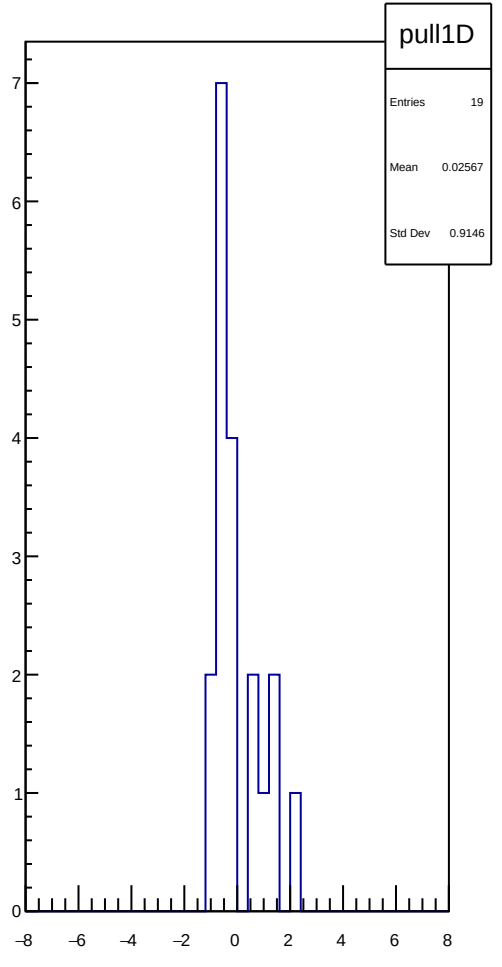

asym_atl1r2_avg_correction_rms vs run
χ² / ndf 300.2 / 18
p0 4470 ± 7.27
4700
4600
4500
4400
4300
4200
4100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

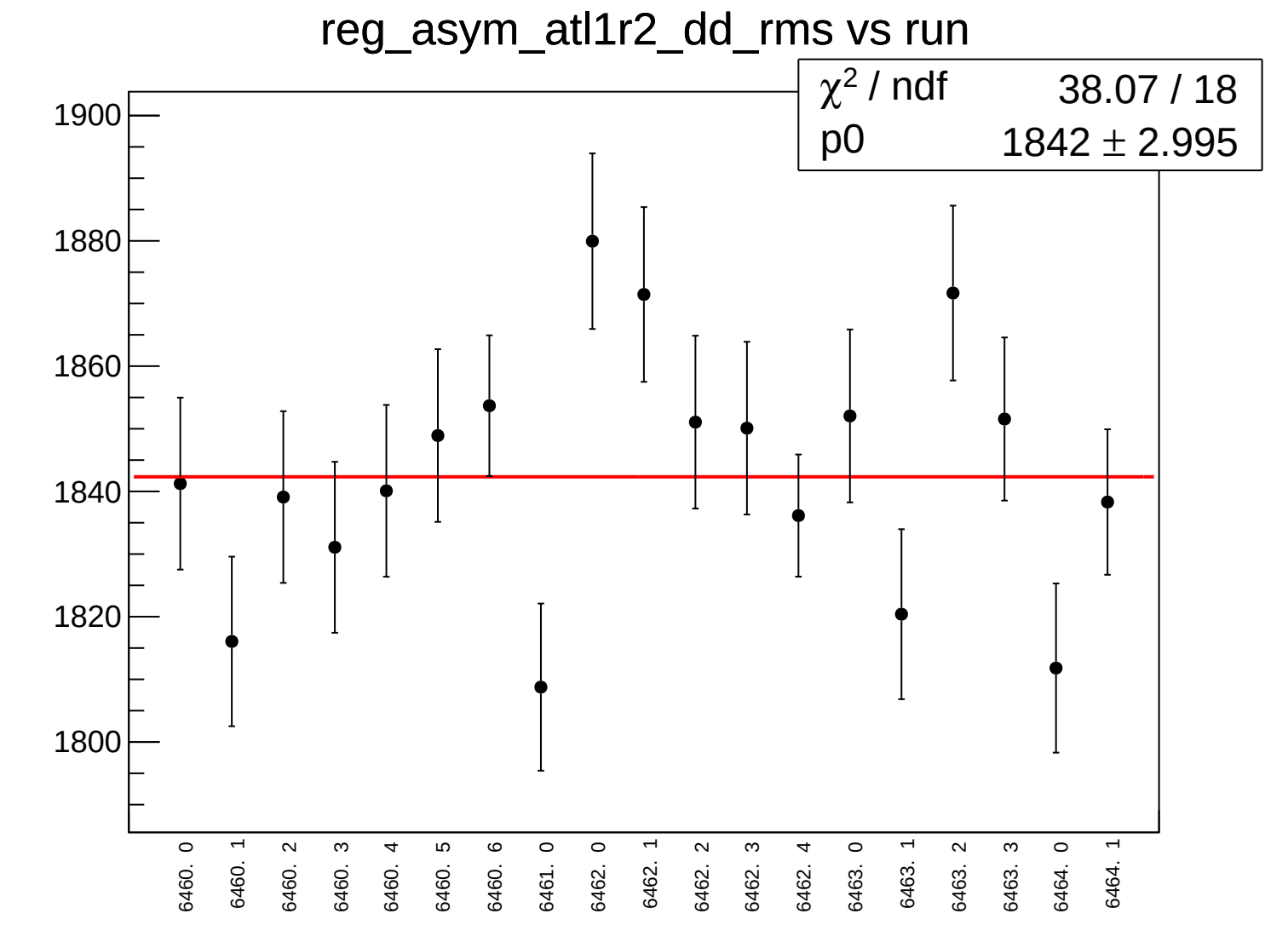

asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 18.52 / 18
p0 −1.324e+04 ± 1.113e+04
150
100
50
0
−50
−100
−150
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 73.97
Std Dev 59.09
1.5
1
0.5
0
−0.5
−1
−1.5
−2

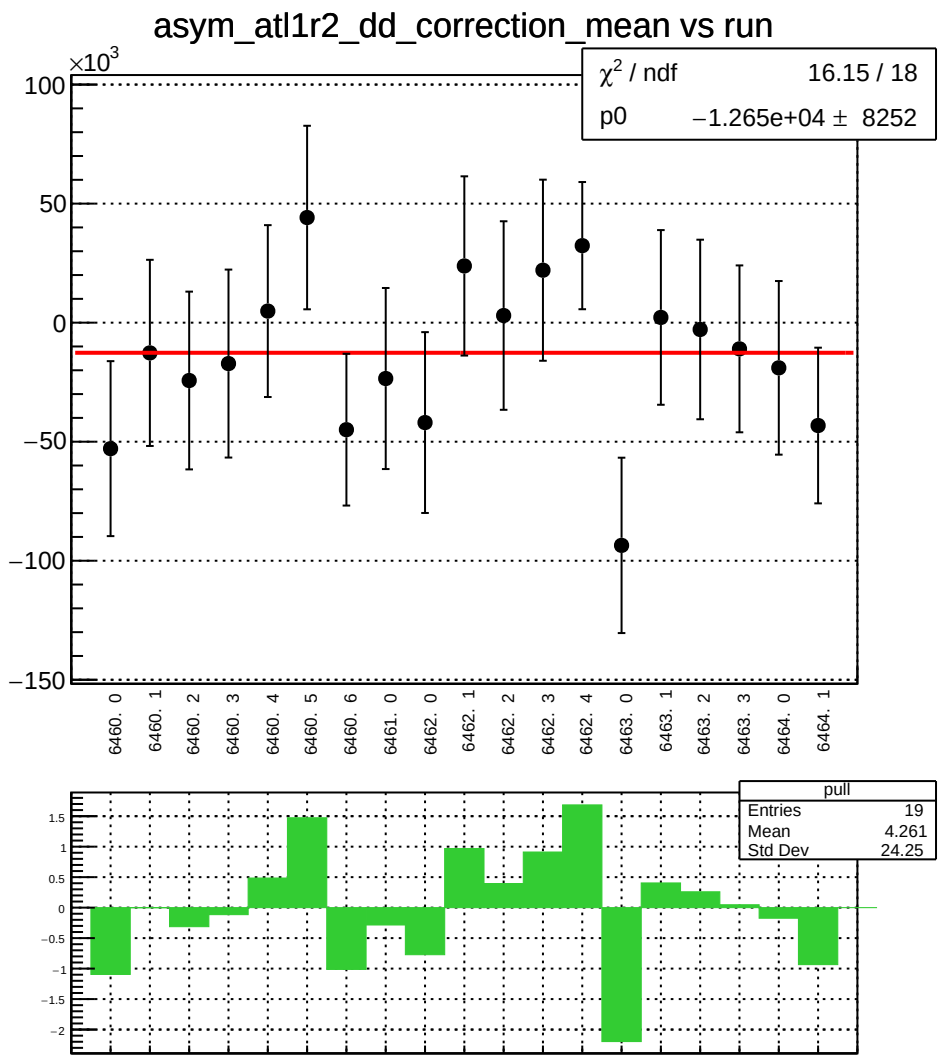

pull1D
Entries 19
Mean −0.01365
Std Dev 0.9871
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

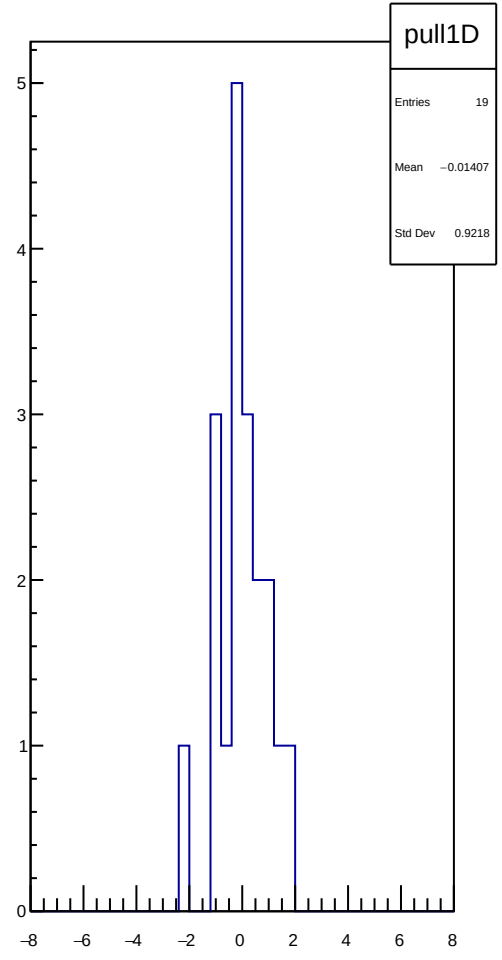

asym_atl1r2_avg_rms vs run
χ² / ndf 219.5 / 18
p0 4839 ± 7.869
5000
4900
4800
4700
4600
4500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

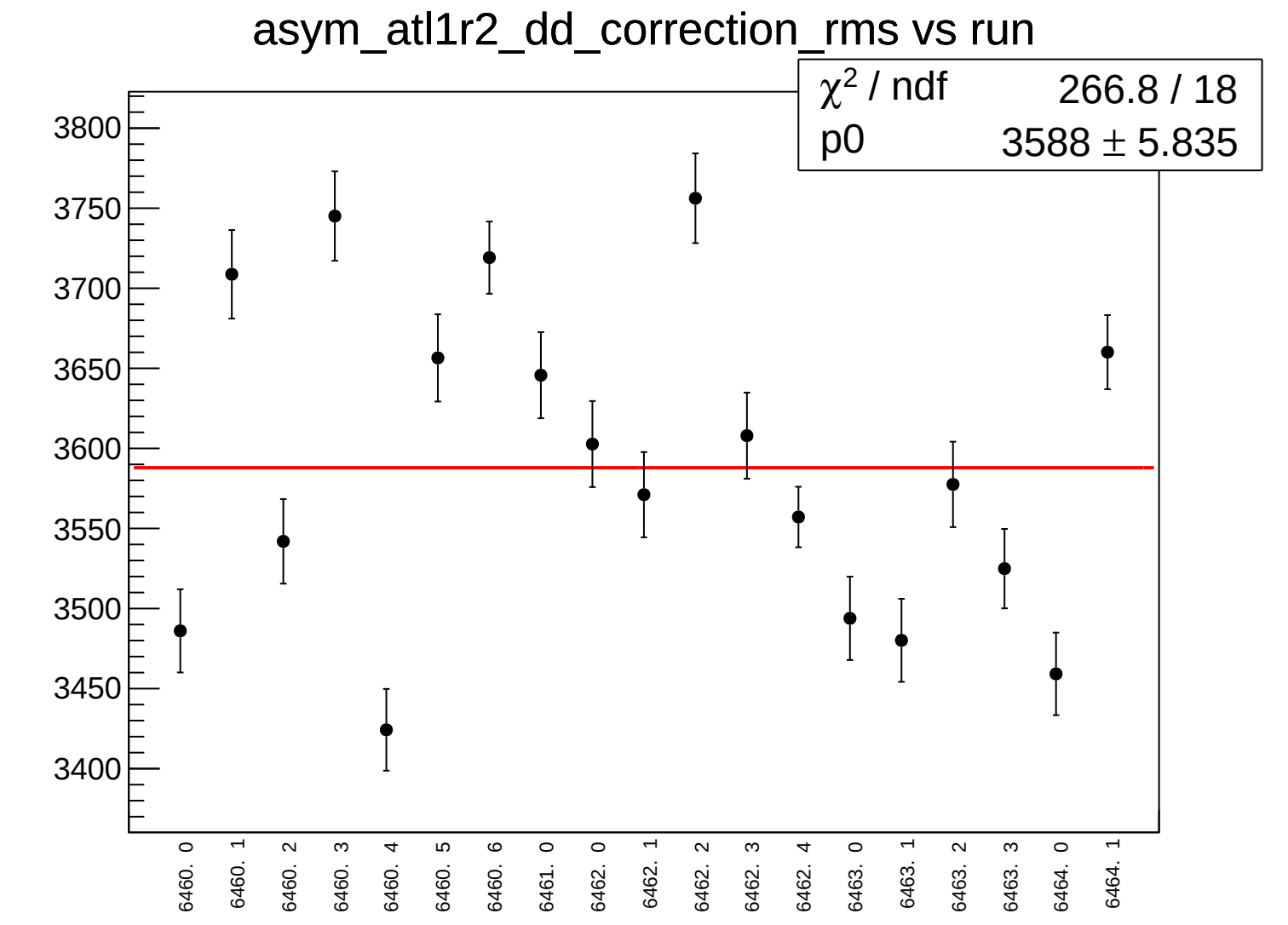

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 15.9 / 18
p0 −8836 ± 4236
60000
40000
20000
0
−20000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 23.43
Std Dev 16.83
2
1.5
1
0.5
0
−0.5
−1

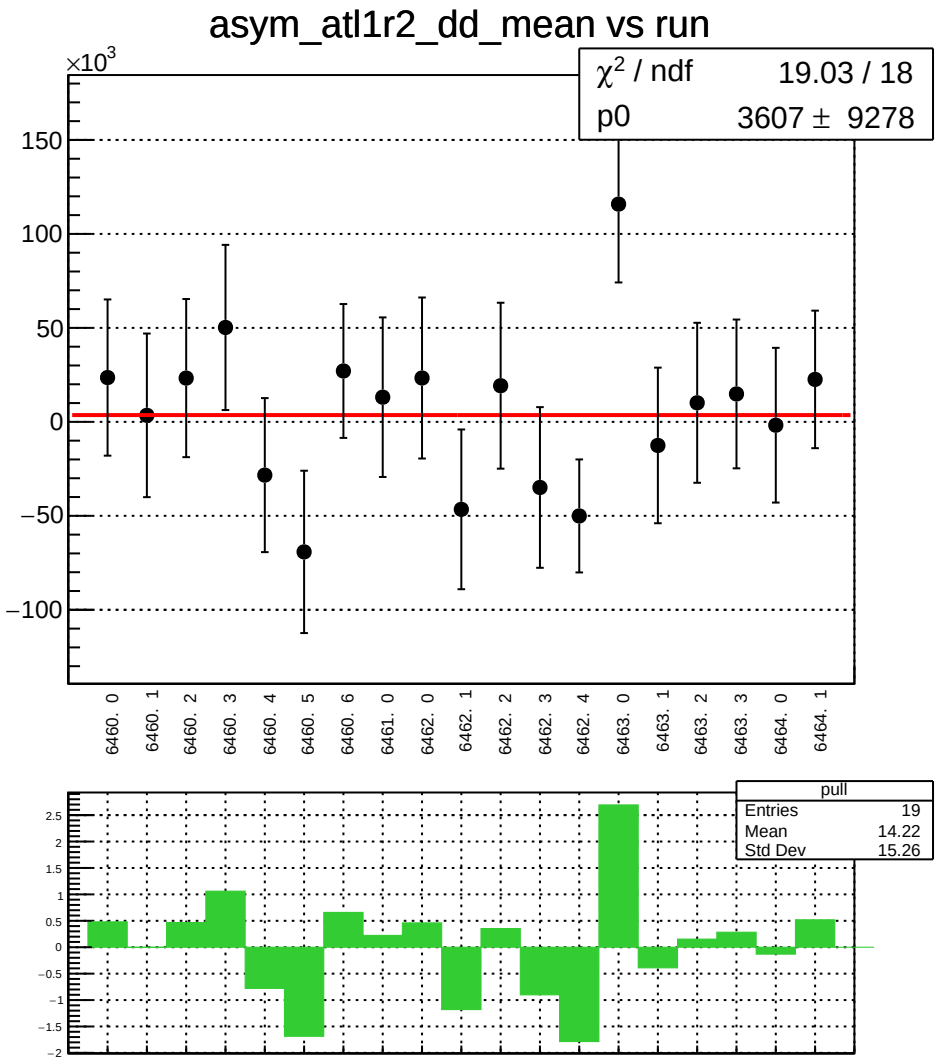

pull1D
Entries 19
Mean 0.02567
Std Dev 0.9146
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

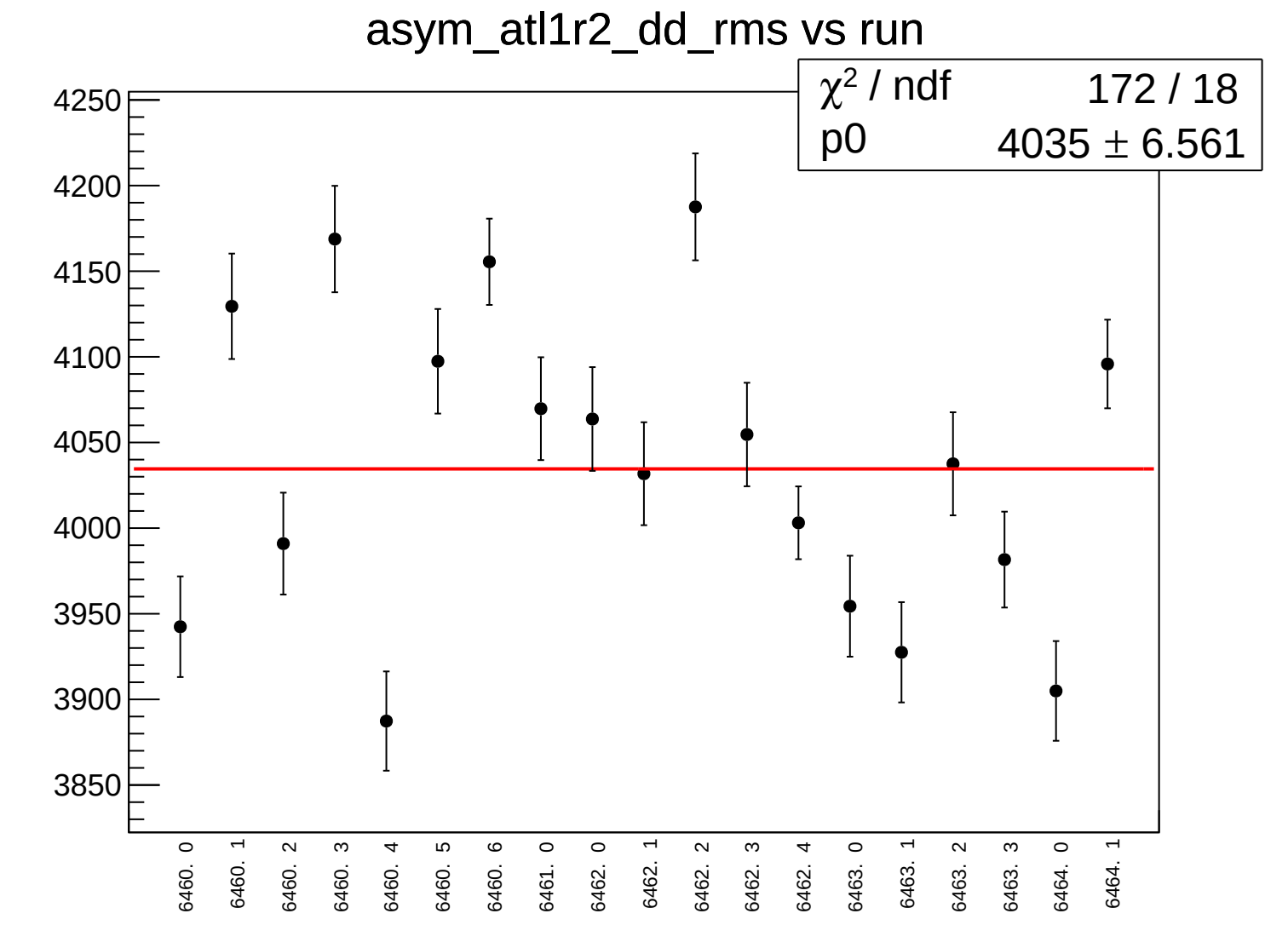

reg_asym_atl1r2_dd_rms vs run
χ² / ndf 38.07 / 18
p0 1842 ± 2.995
1900
1880
1860
1840
1820
1800
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

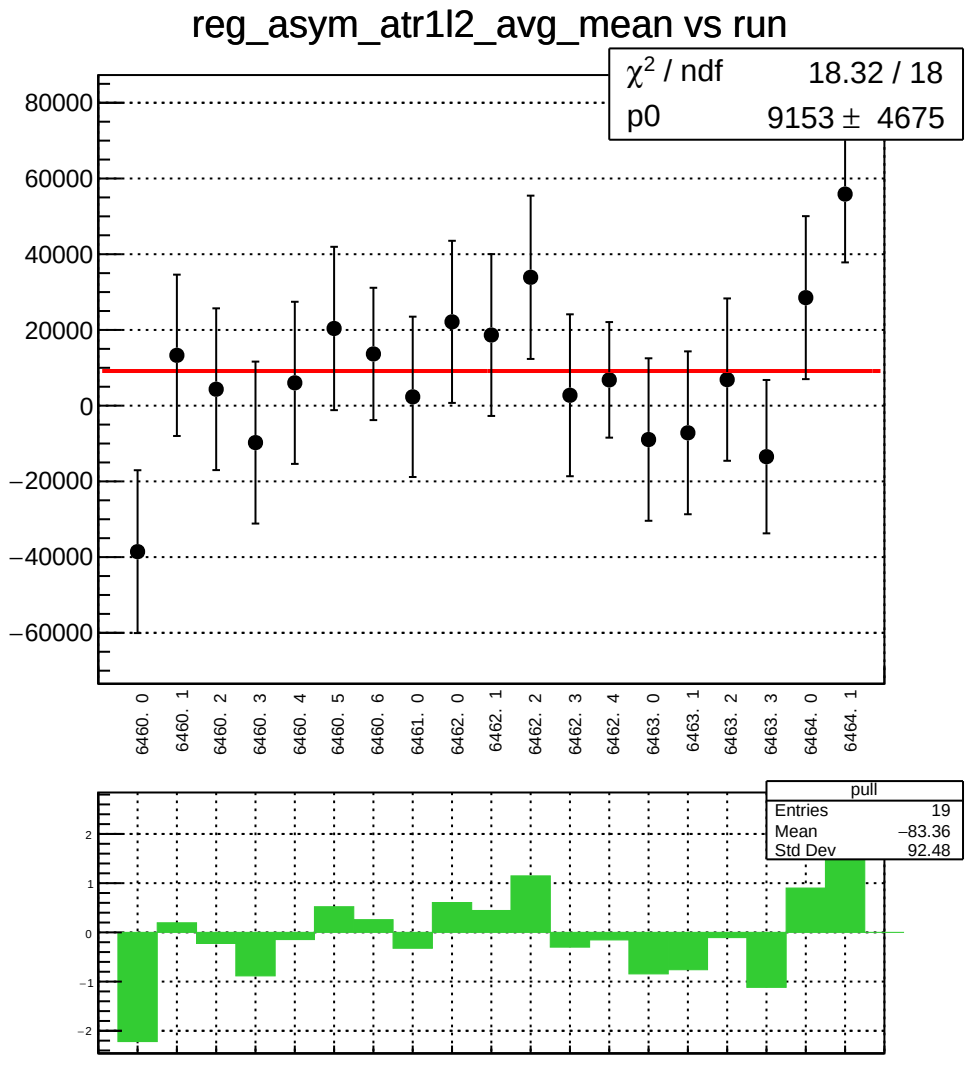

asym_atl1r2_dd_correction_mean vs run
×10^3
χ² / ndf 16.15 / 18
p0 −1.265e+04 ± 8252
100
50
0
−50
−100
−150
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 4.261
Std Dev 24.25
1.5
1
0.5
0
−0.5
−1
−1.5
−2

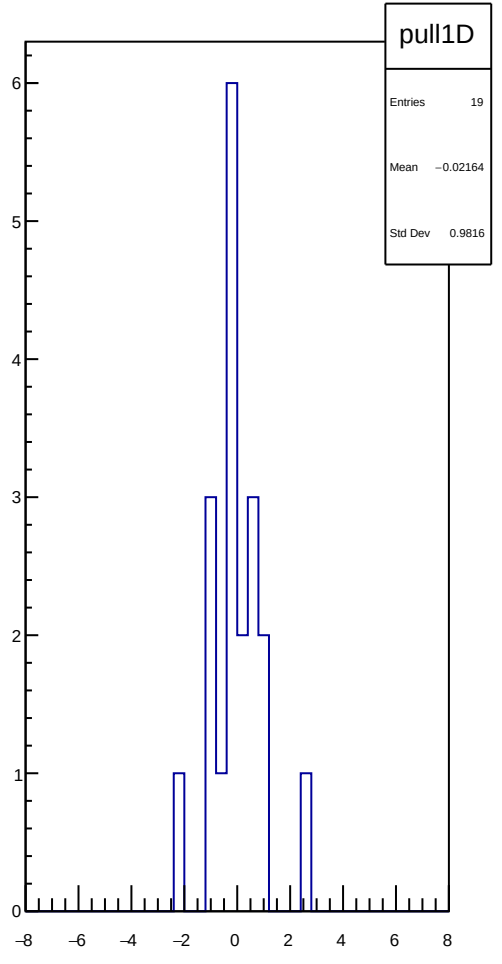

pull1D
Entries 19
Mean −0.01407
Std Dev 0.9218
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

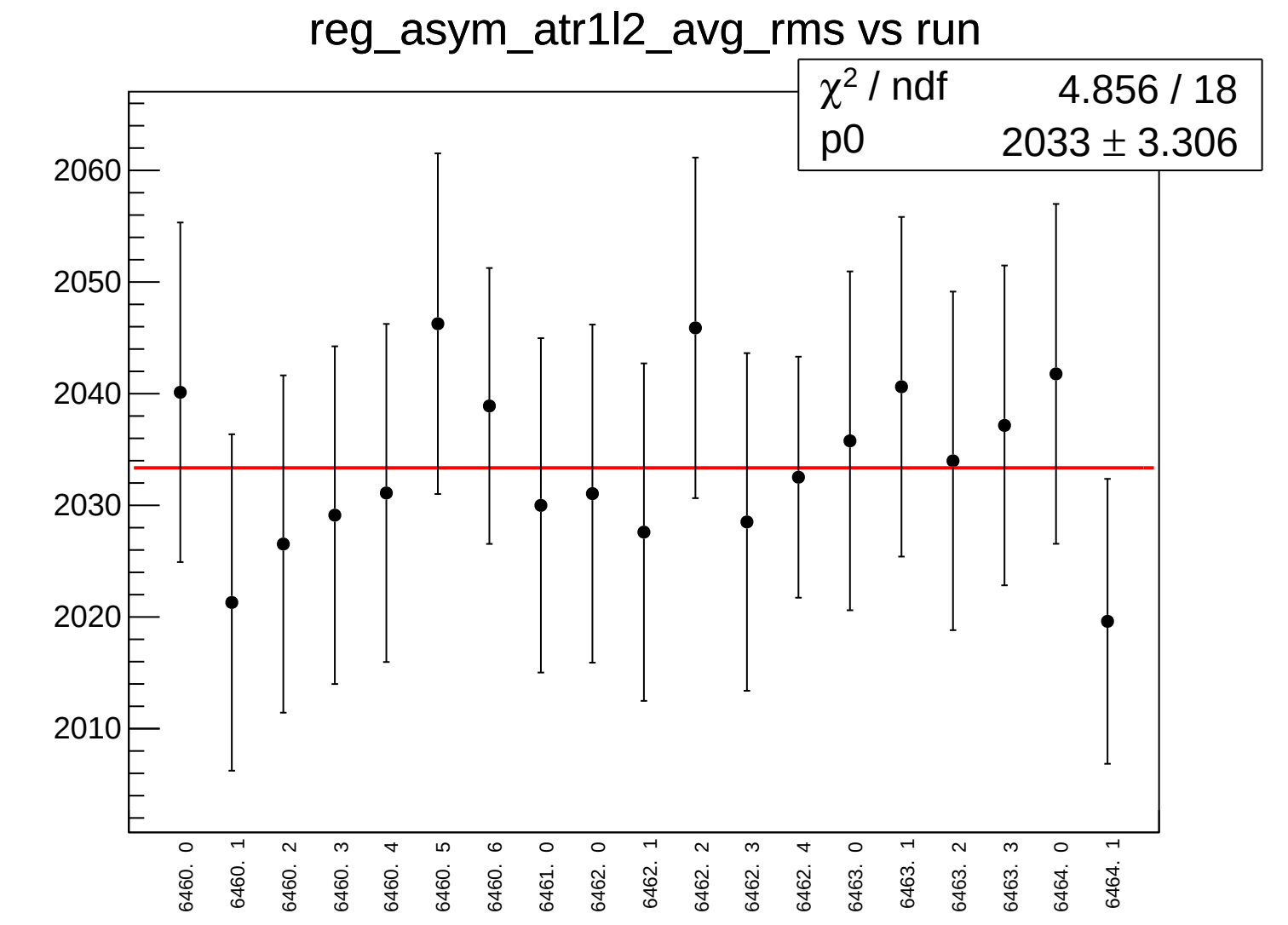

asym_atl1r2_dd_correction_rms vs run
χ² / ndf 266.8 / 18
p0 3588 ± 5.835
3800
3750
3700
3650
3600
3550
3500
3450
3400
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

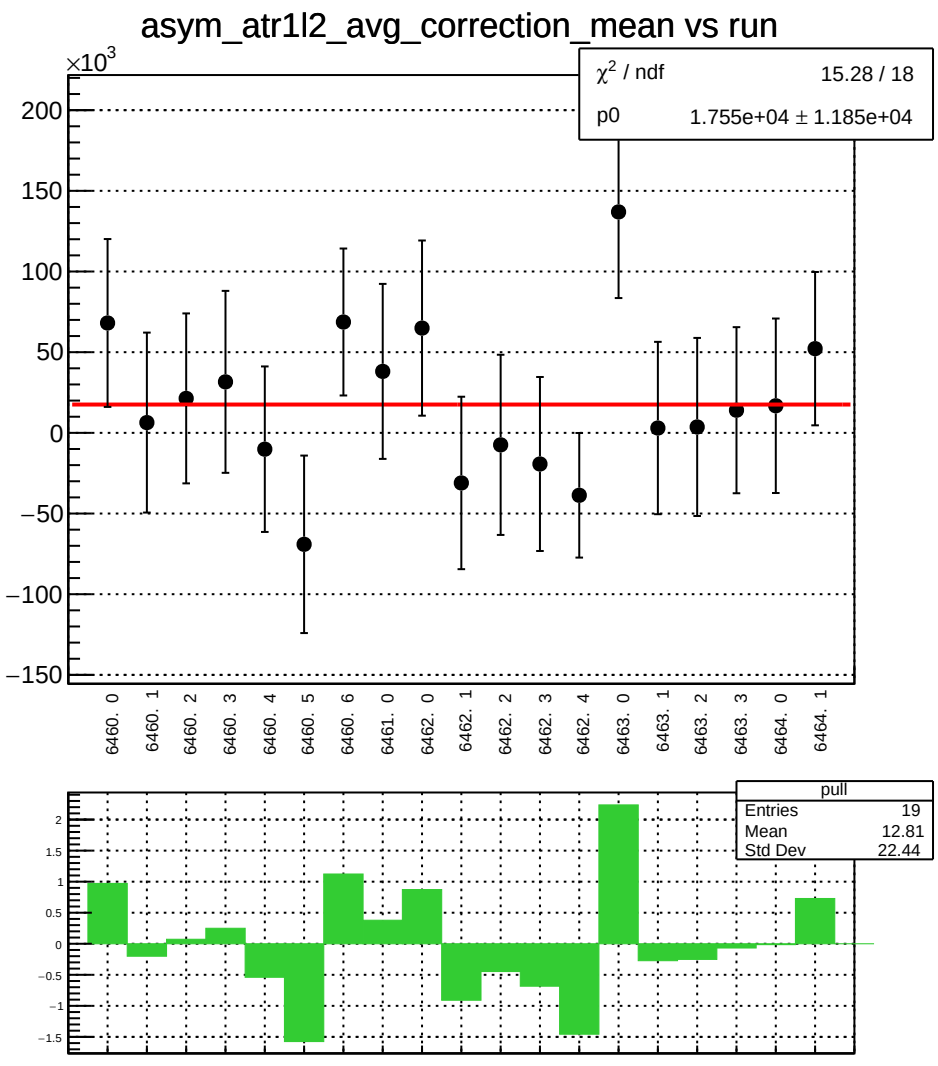

asym_atl1r2_dd_mean vs run
×10^3
χ^2 / ndf 19.03 / 18
p0 3607 ± 9278
150
100
50
0
−50
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 14.22
Std Dev 15.26
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 19
Mean 0.02637
Std Dev 1
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

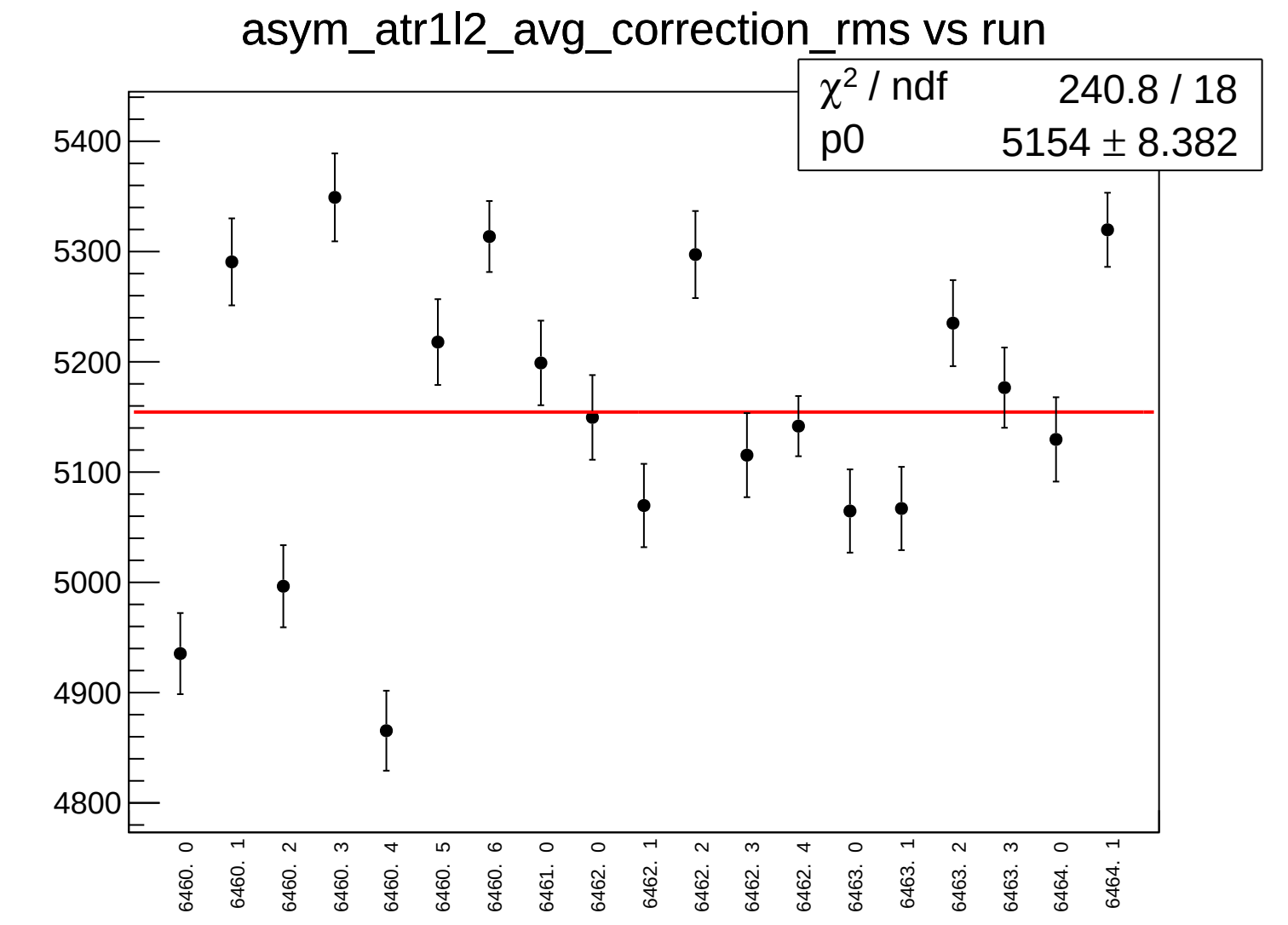

asym_atl1r2_dd_rms vs run
χ² / ndf 172 / 18
p0 4035 ± 6.561
4250
4200
4150
4100
4050
4000
3950
3900
3850
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

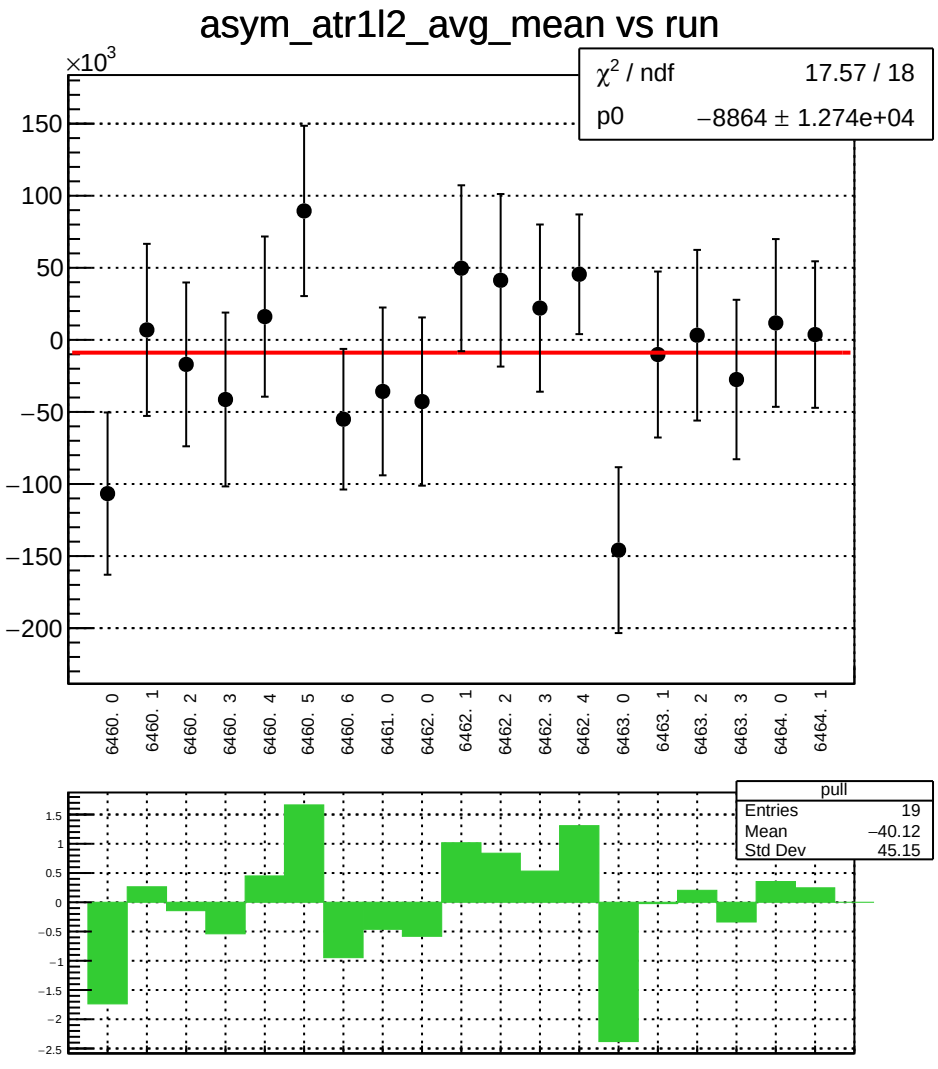

reg_asym_atr1l2_avg_mean vs run
χ² / ndf 18.32 / 18
p0 9153 ± 4675
80000
60000
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −83.36
Std Dev 92.48
2
1
0
−1
−2

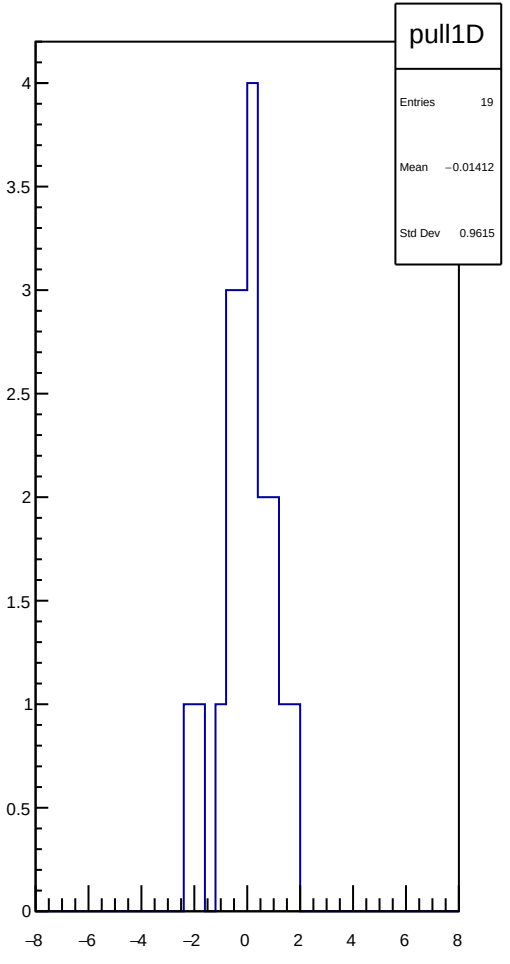

pull1D
Entries 19
Mean −0.02164
Std Dev 0.9816
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

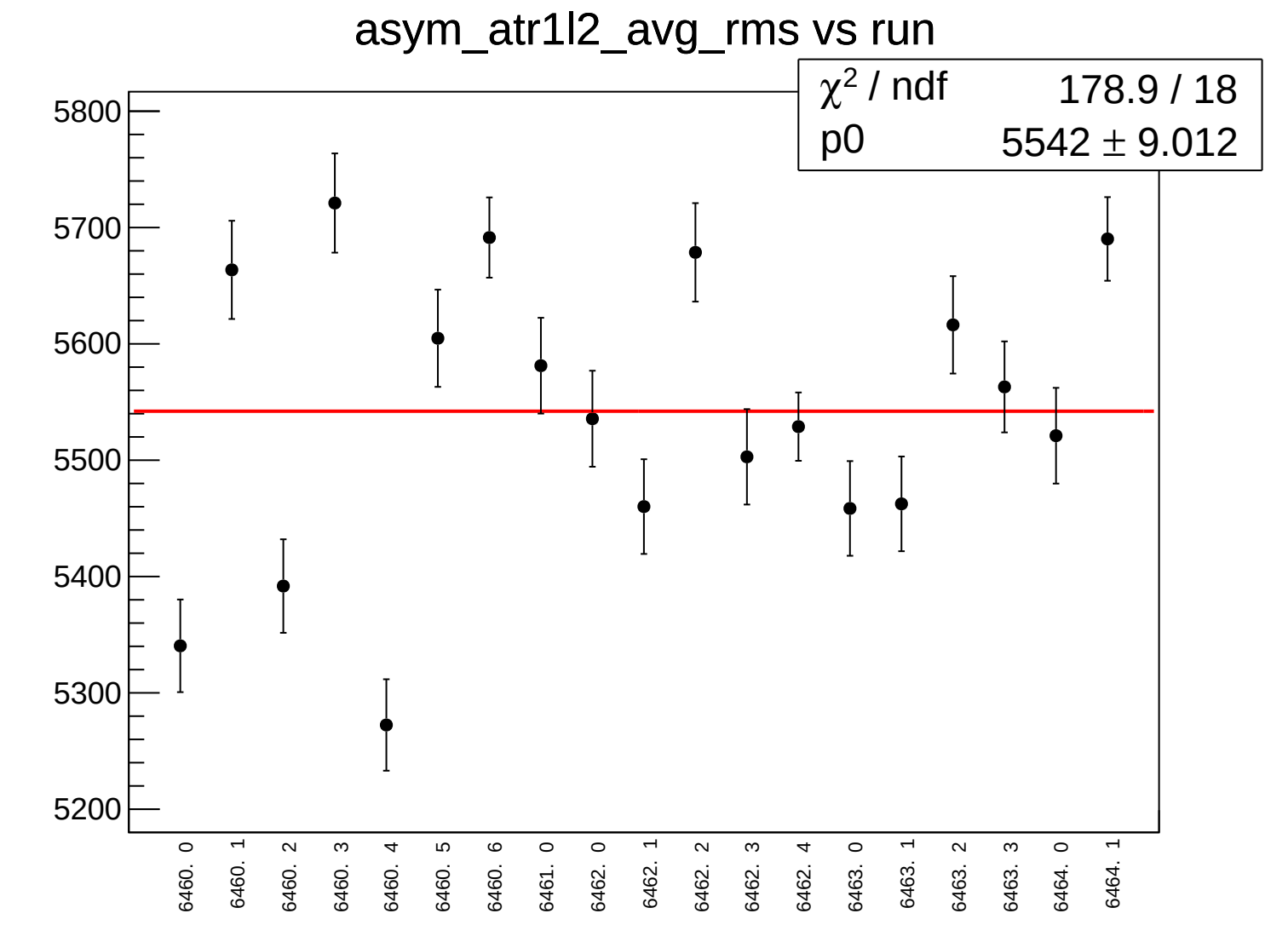

reg_asym_atr1l2_avg_rms vs run
χ² / ndf 4.856 / 18
p0 2033 ± 3.306
2060
2050
2040
2030
2020
2010
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

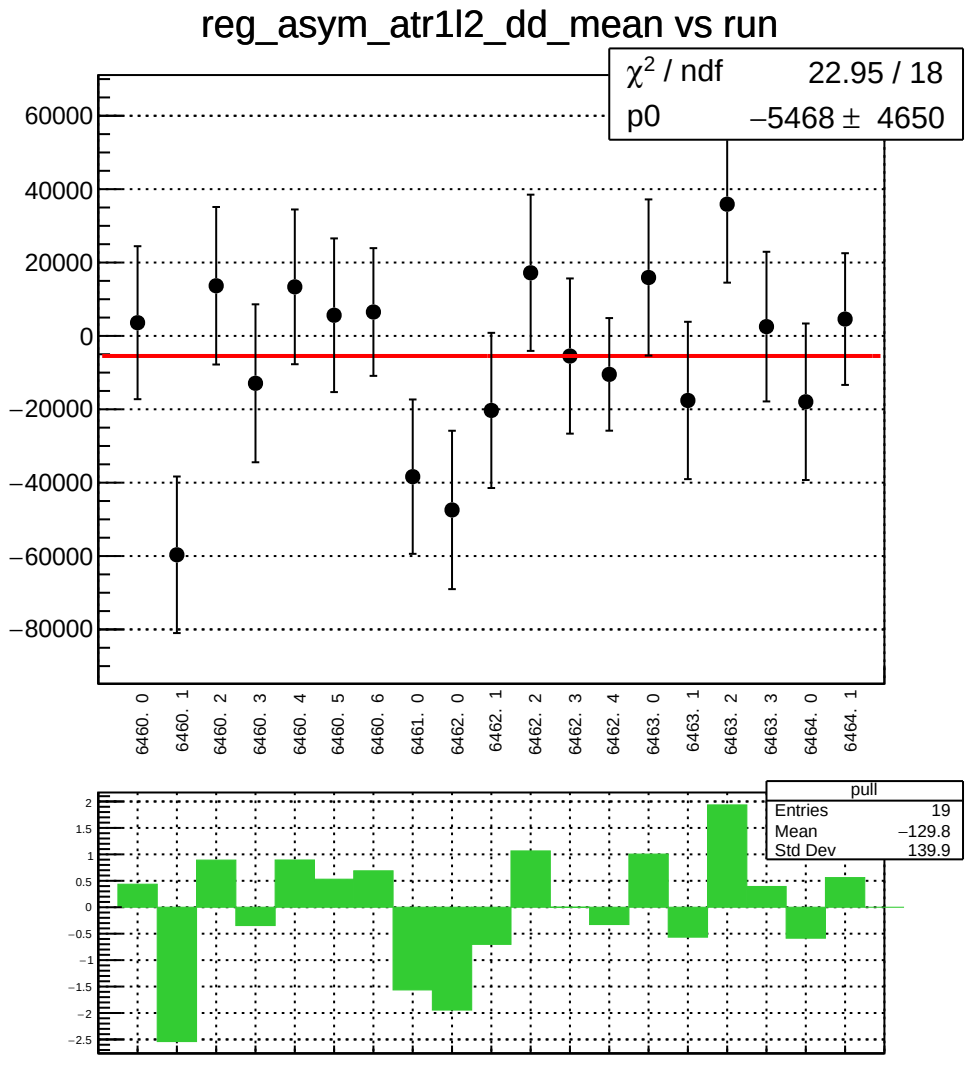

asym_atr1l2_avg_correction_mean vs run
×10^3
χ² / ndf 15.28 / 18
p0 1.755e+04 ± 1.185e+04
200
150
100
50
0
−50
−100
−150
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 12.81
Std Dev 22.44
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 19
Mean 0.01131
Std Dev 0.8967
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

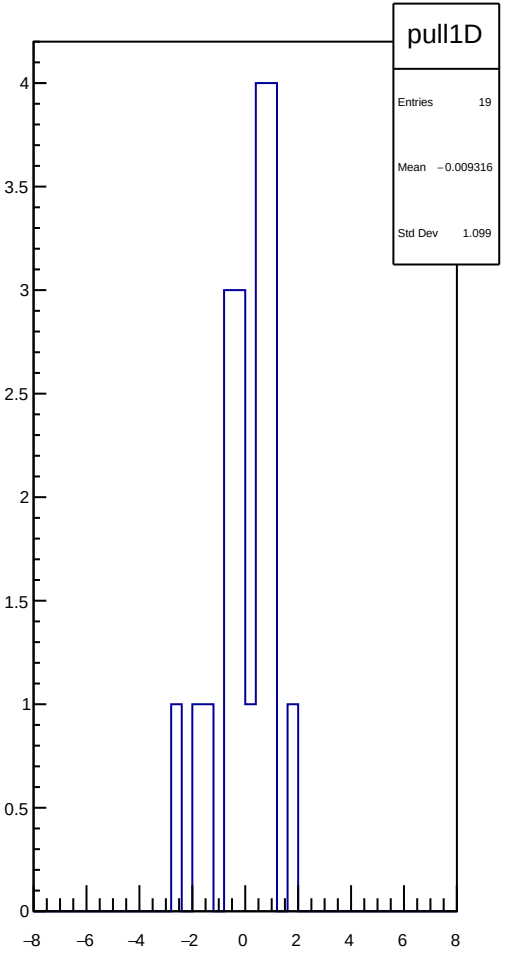

asym_atr1l2_avg_correction_rms vs run
χ² / ndf 240.8 / 18
p0 5154 ± 8.382
5400
5300
5200
5100
5000
4900
4800
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

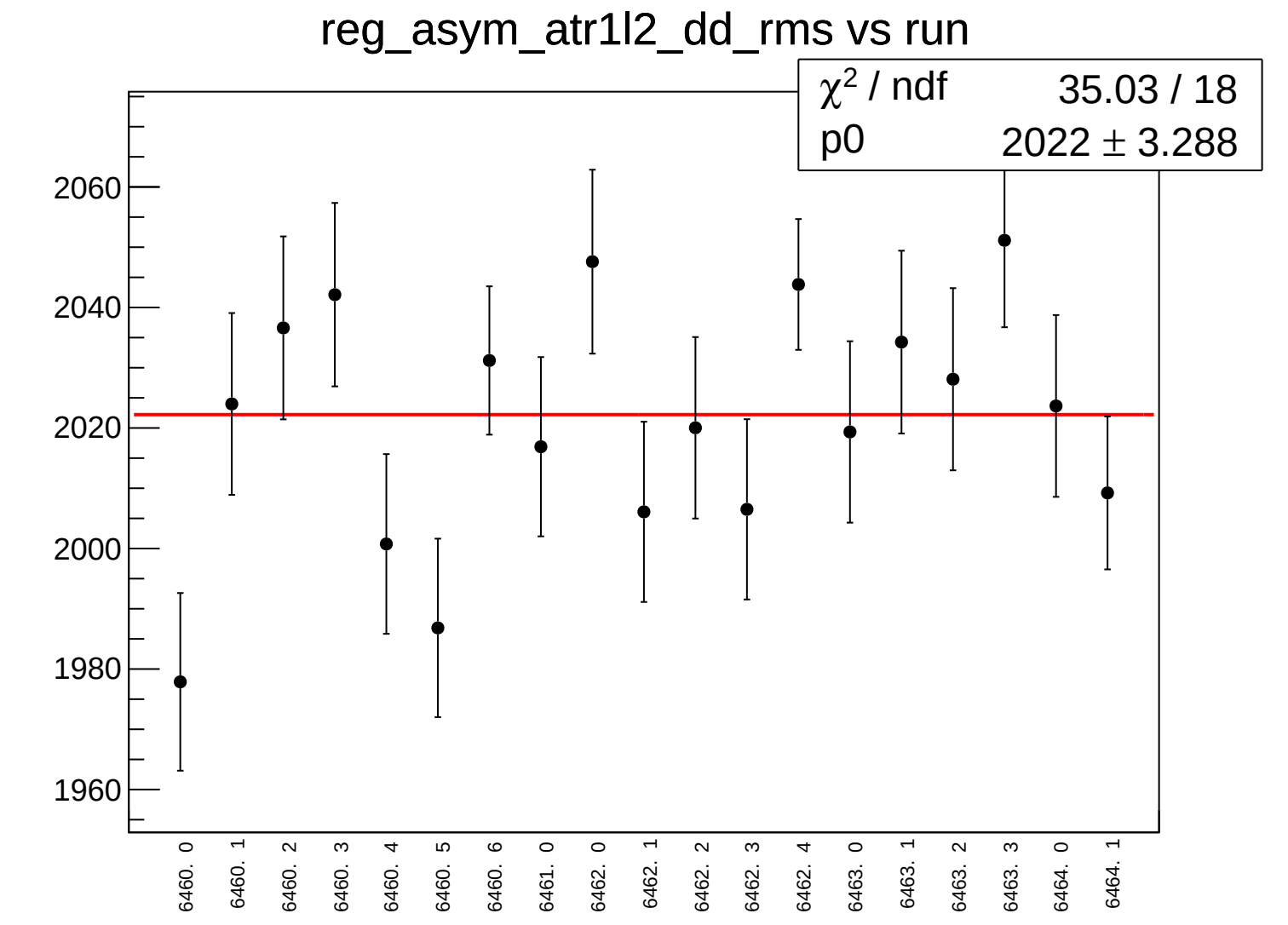

asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 17.57 / 18
p0 −8864 ± 1.274e+04
150
100
50
0
−50
−100
−150
−200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −40.12
Std Dev 45.15
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

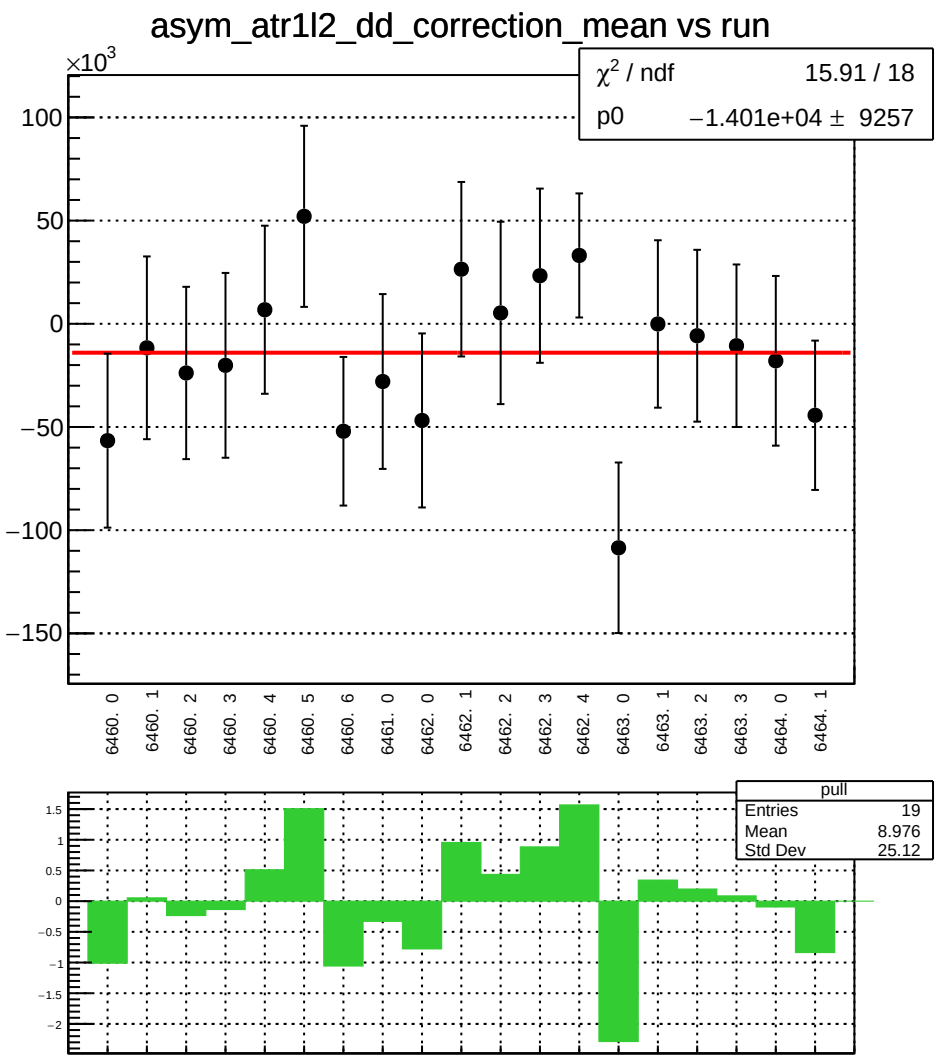

pull1D
Entries 19
Mean −0.01412
Std Dev 0.9615
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

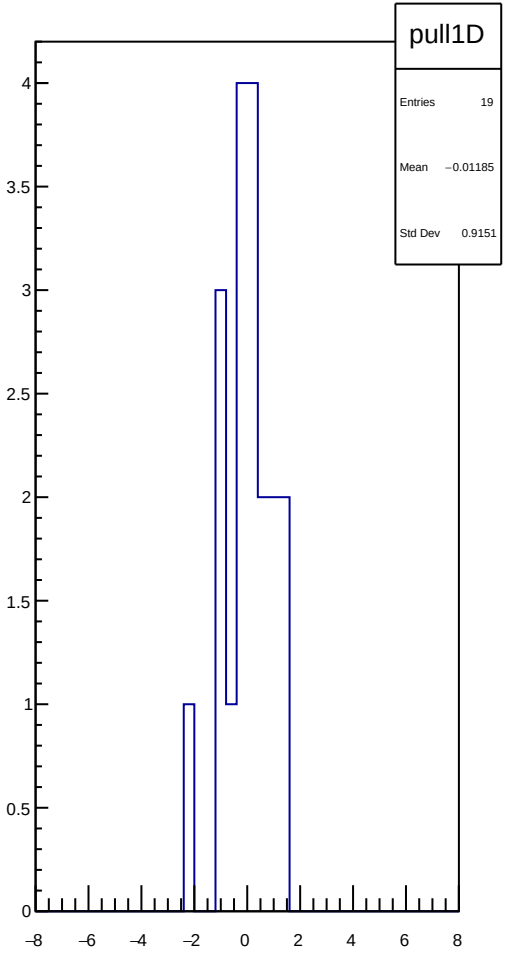

asym_atr1l2_avg_rms vs run
χ² / ndf 178.9 / 18
p0 5542 ± 9.012
5800
5700
5600
5500
5400
5300
5200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

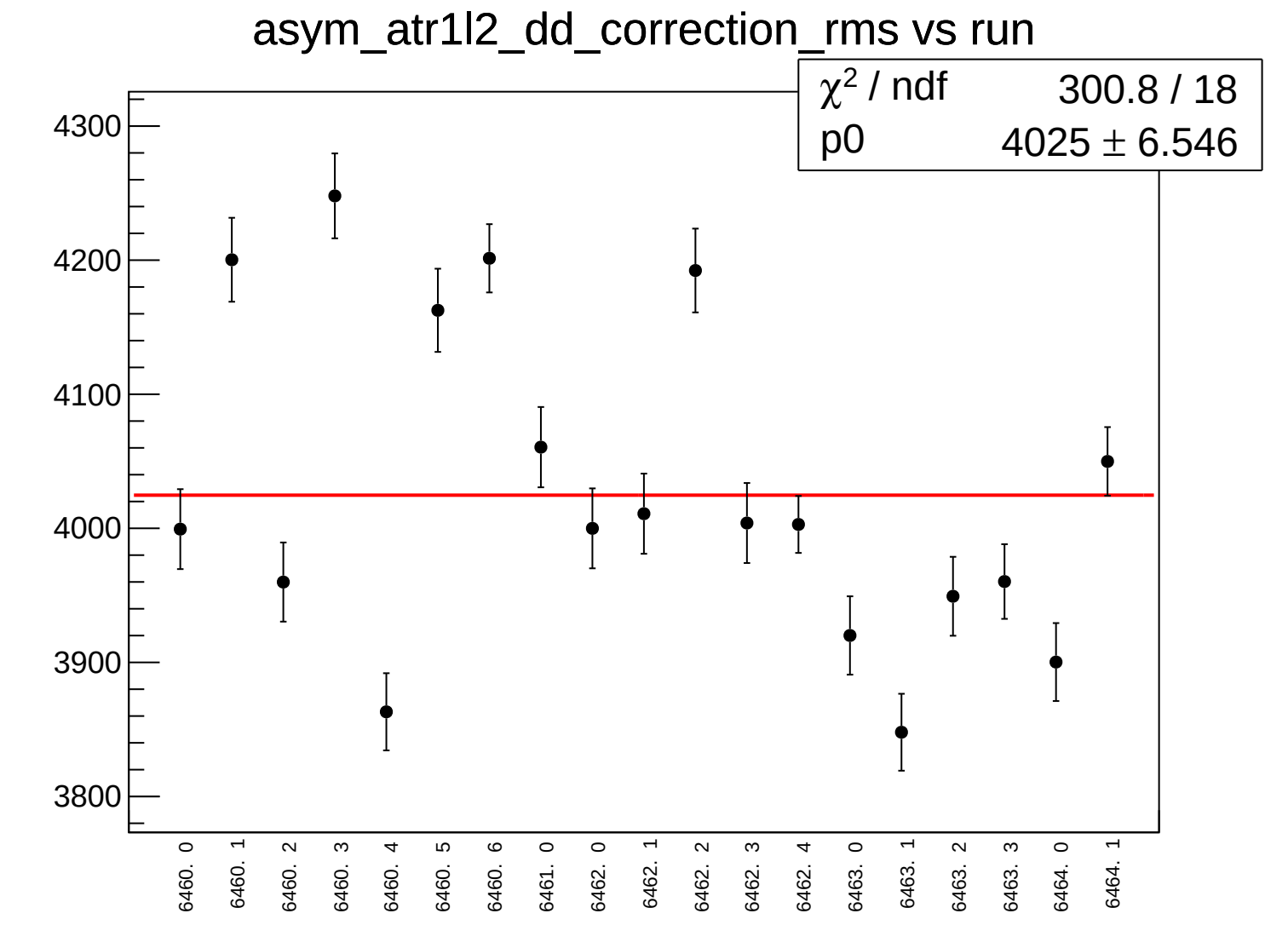

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 22.95 / 18
p0 −5468 ± 4650
60000
40000
20000
0
−20000
−40000
−60000
−80000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −129.8
Std Dev 139.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

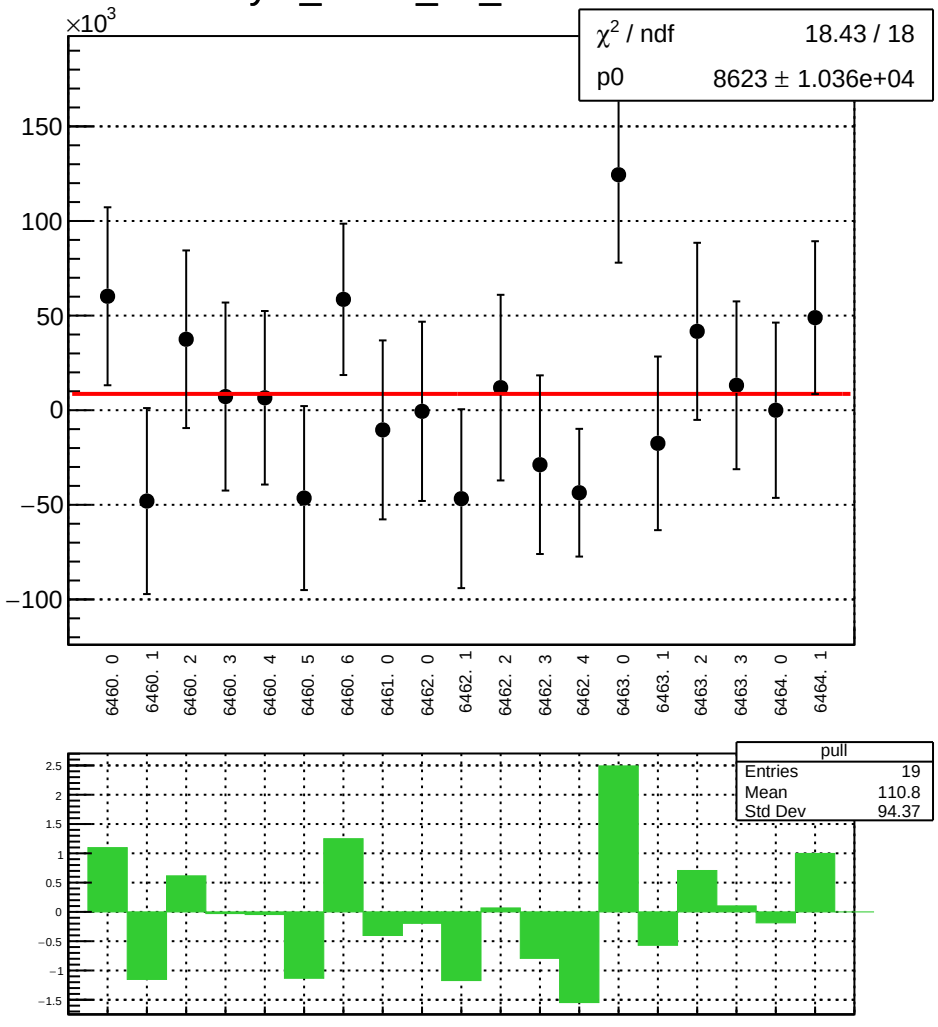

pull1D
Entries 19
Mean −0.009316
Std Dev 1.099
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

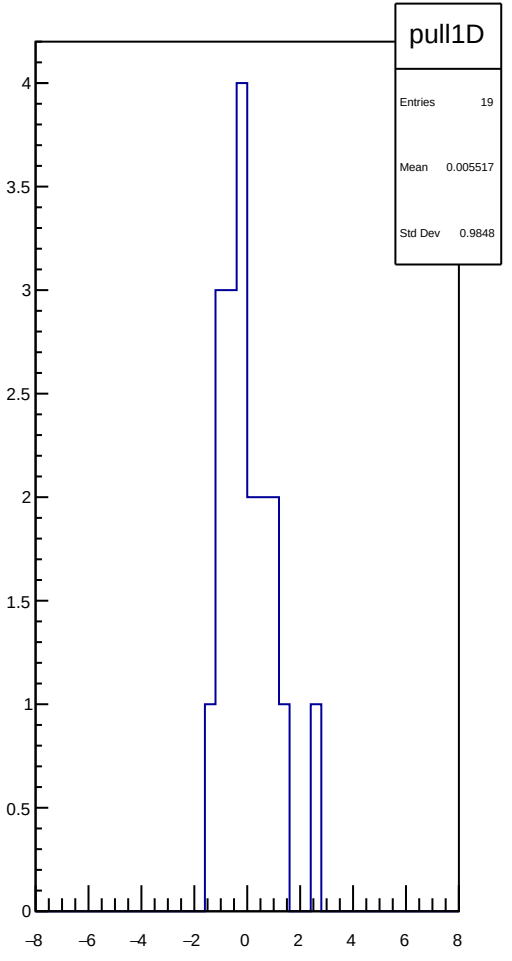

reg_asym_atr1l2_dd_rms vs run
χ² / ndf 35.03 / 18
p0 2022 ± 3.288
2060
2040
2020
2000
1980
1960
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

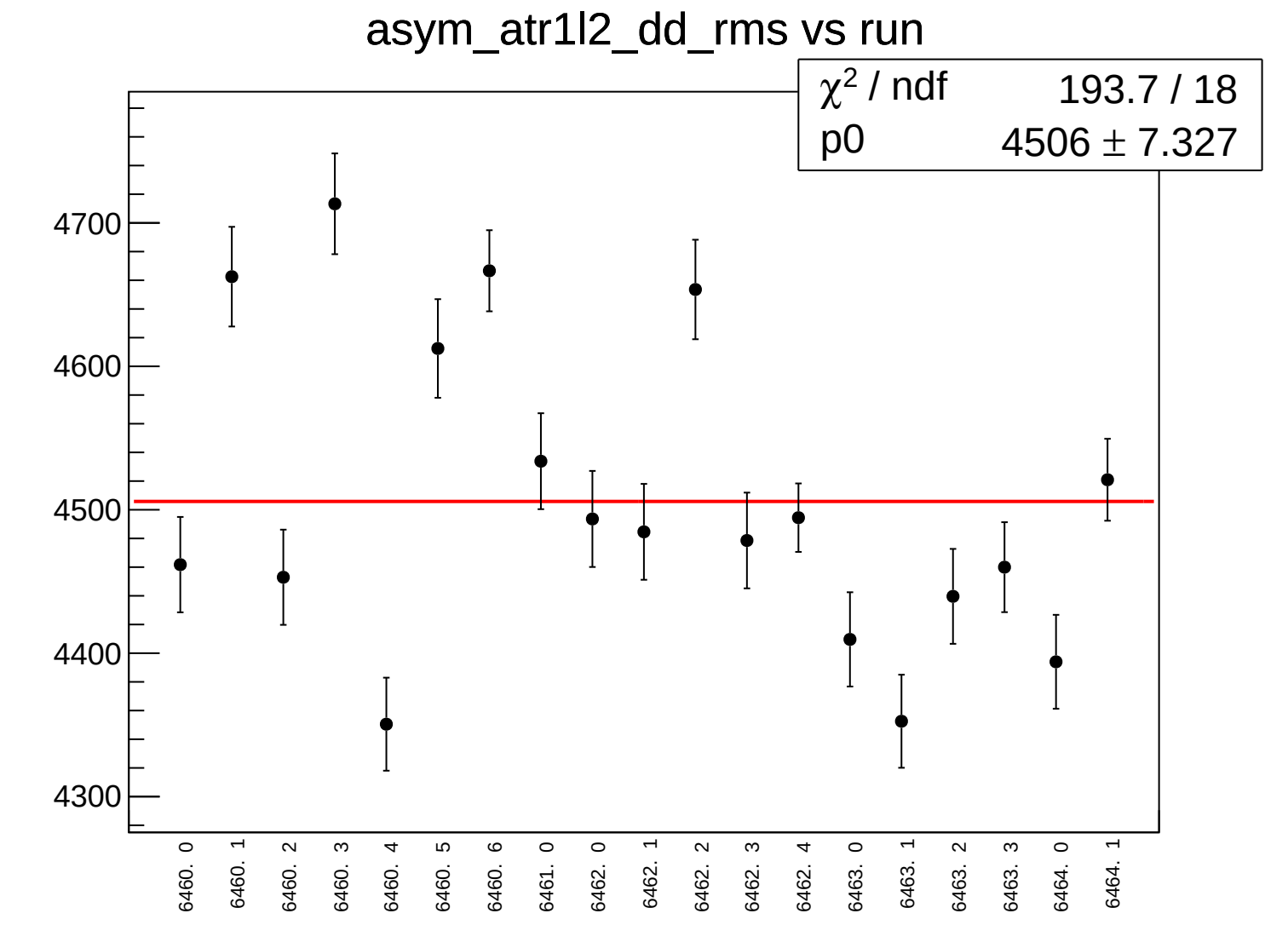

asym_atr1l2_dd_correction_mean vs run
×10^3
χ² / ndf 15.91 / 18
p0 −1.401e+04 ± 9257
100
50
0
−50
−100
−150
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 8.976
Std Dev 25.12
1.5
1
0.5
0
−0.5
−1
−1.5
−2

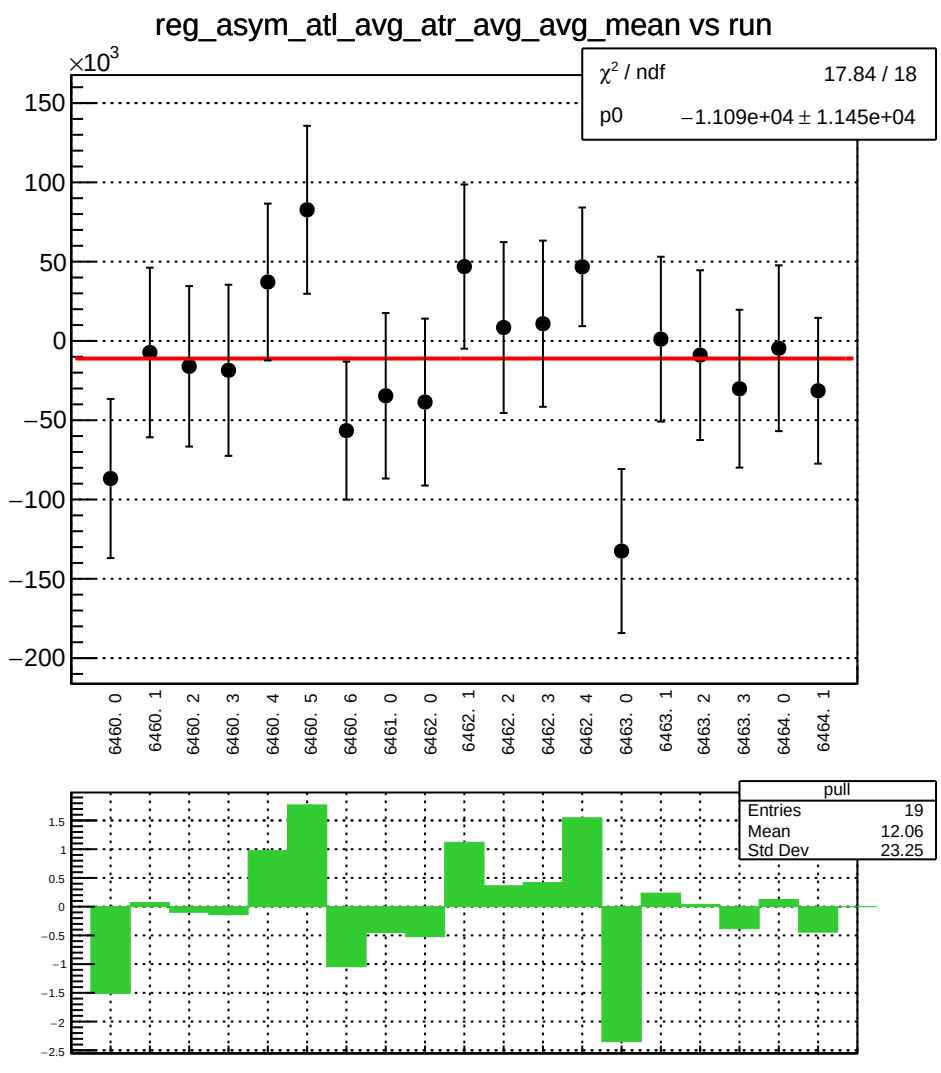

pull1D
Entries 19
Mean −0.01185
Std Dev 0.9151
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

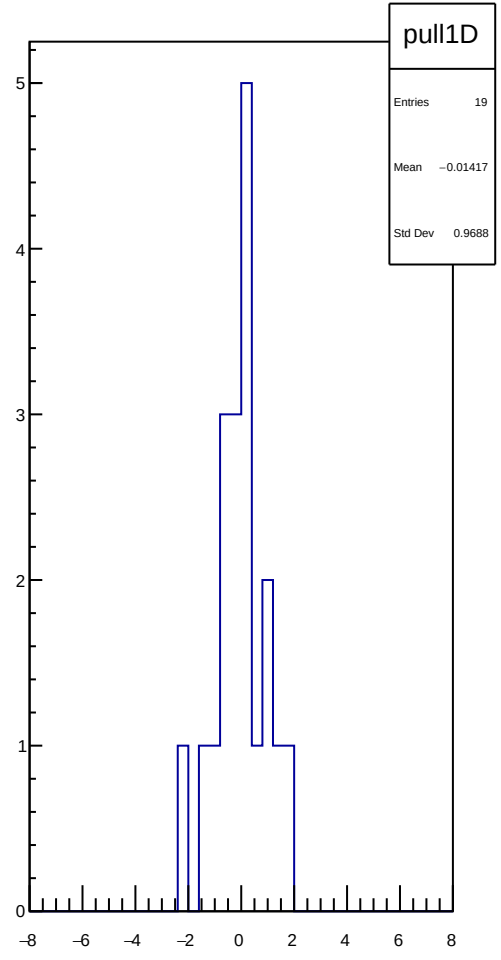

asym_atr1l2_dd_correction_rms vs run
χ² / ndf 300.8 / 18
p0 4025 ± 6.546
4300
4200
4100
4000
3900
3800
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

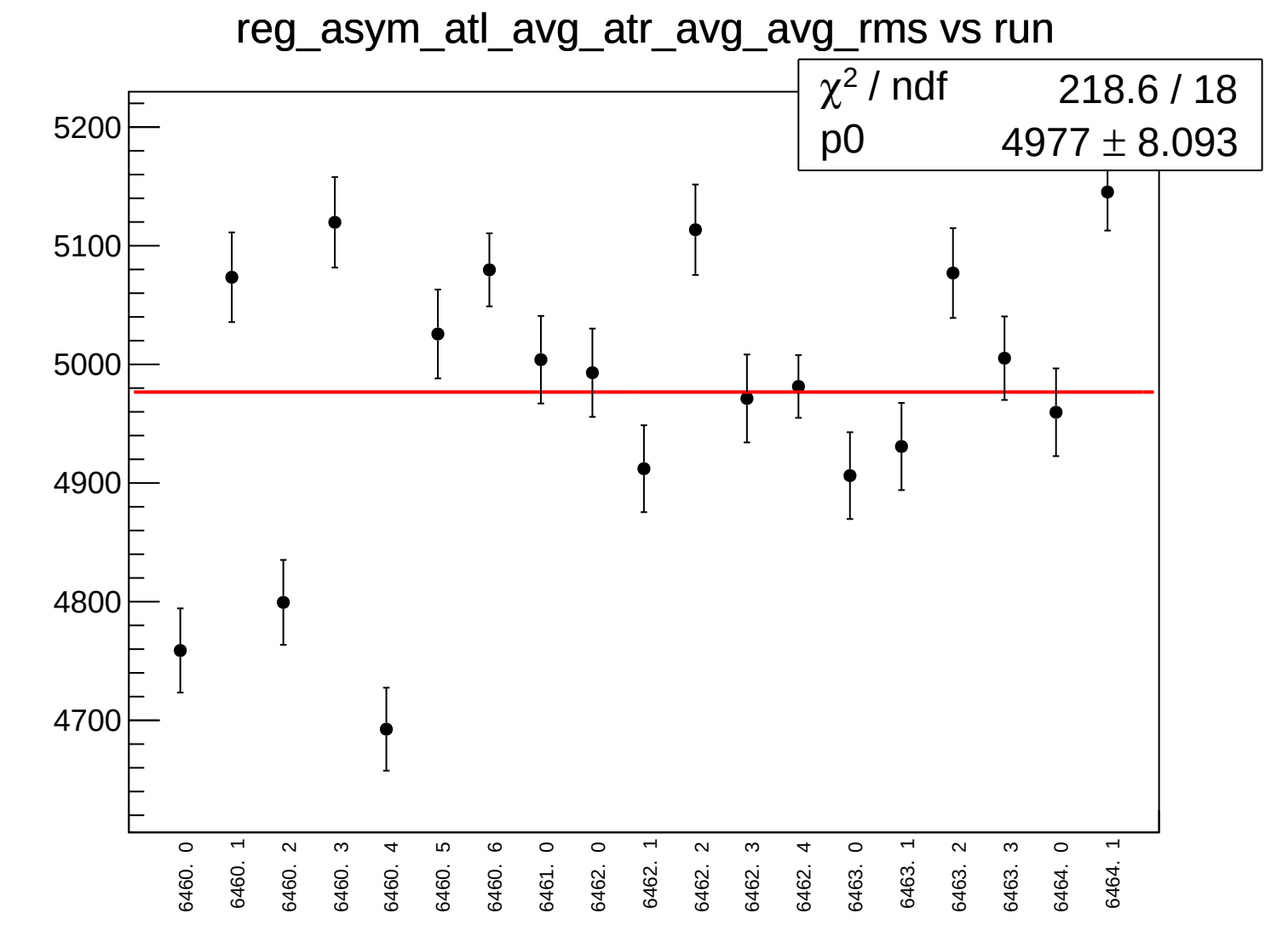

asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 18.43 / 18
p0 8623 ± 1.036e+04
150
100
50
0
−50
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 110.8
Std Dev 94.37
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

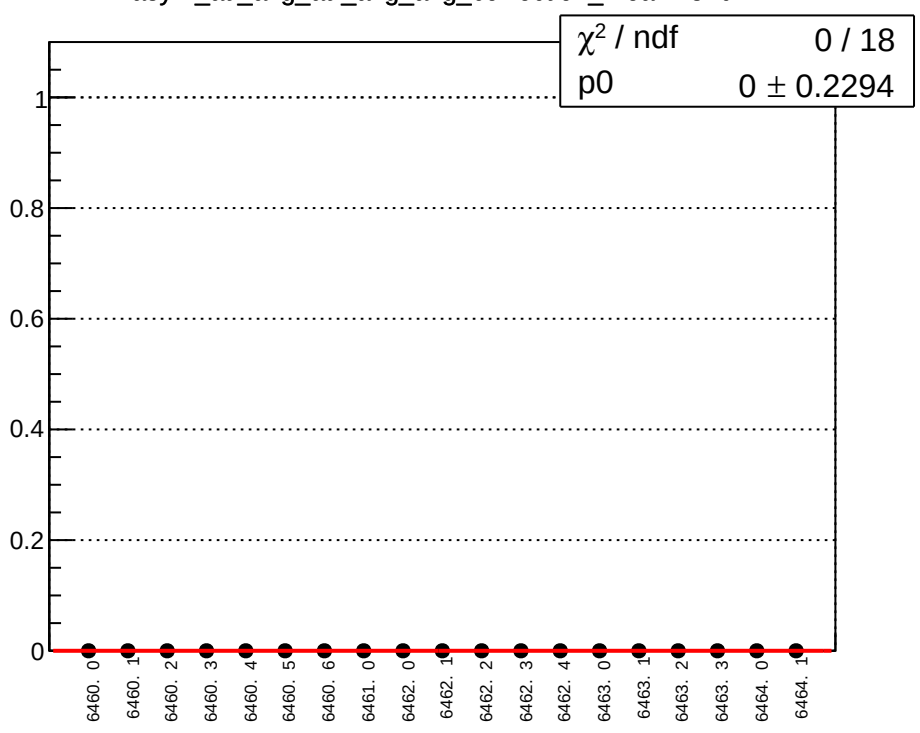

pull1D
Entries 19
Mean 0.005517
Std Dev 0.9848
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

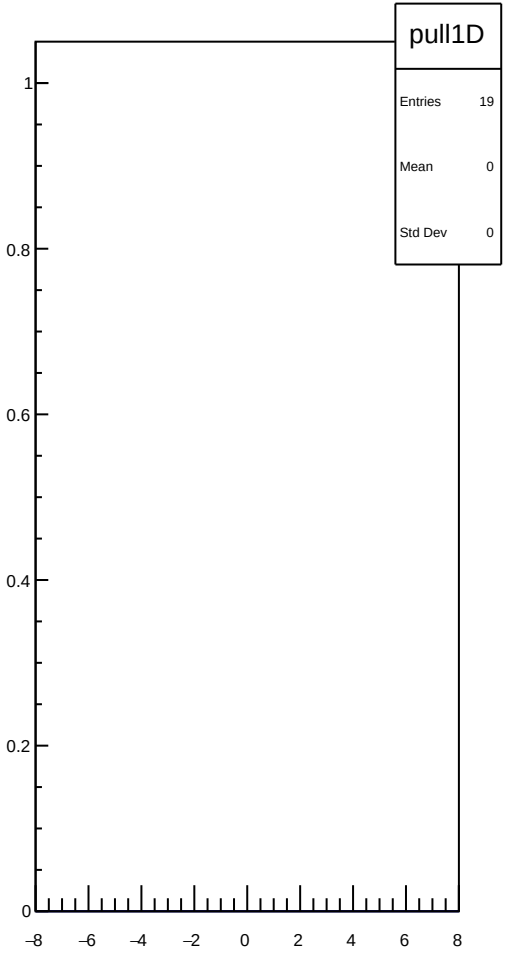

asym_atr1l2_dd_rms vs run
χ² / ndf 193.7 / 18
p0 4506 ± 7.327
4700
4600
4500
4400
4300
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

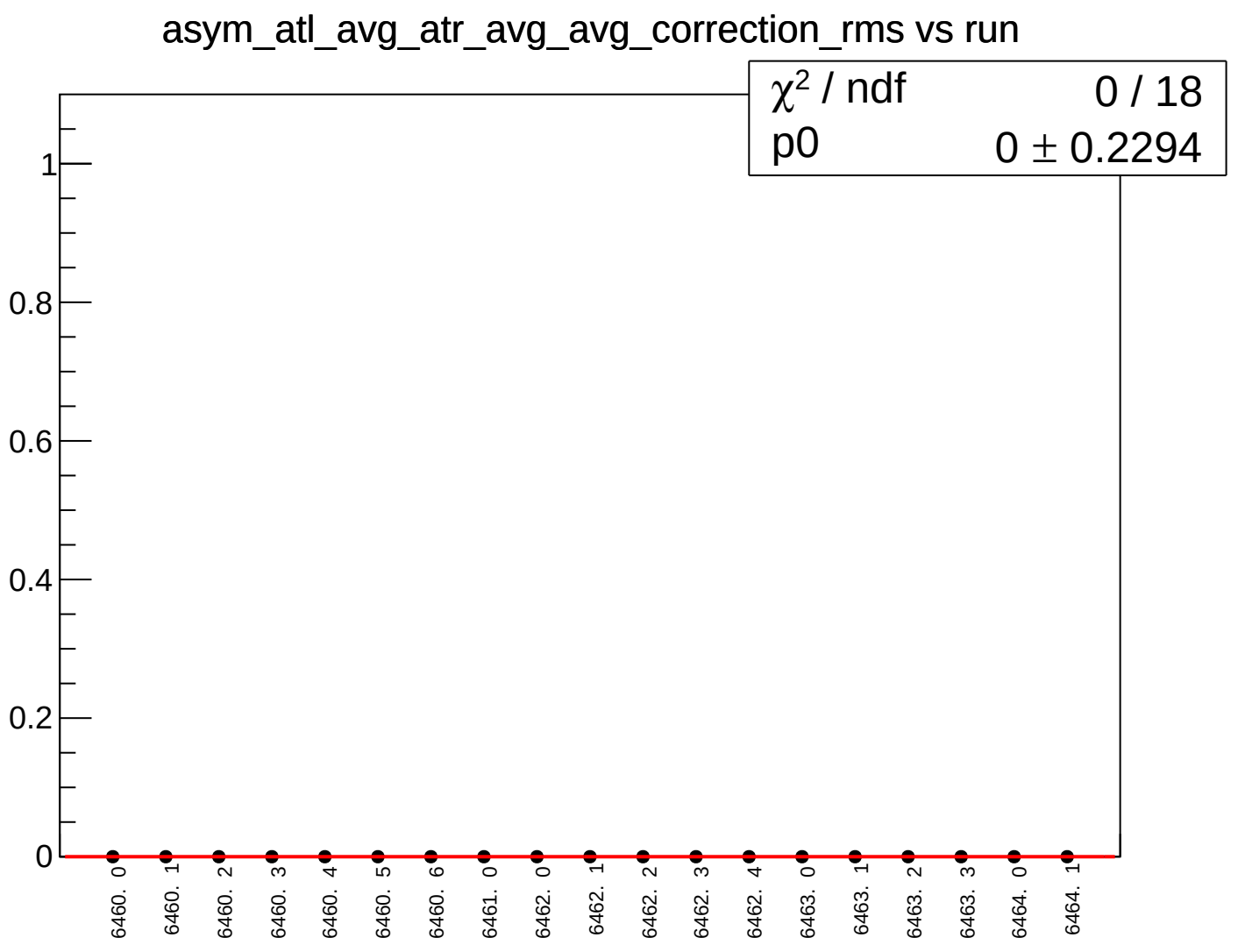

reg_asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 17.84 / 18
p0 −1.109e+04 ± 1.145e+04
150
100
50
0
−50
−100
−150
−200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 12.06
Std Dev 23.25
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

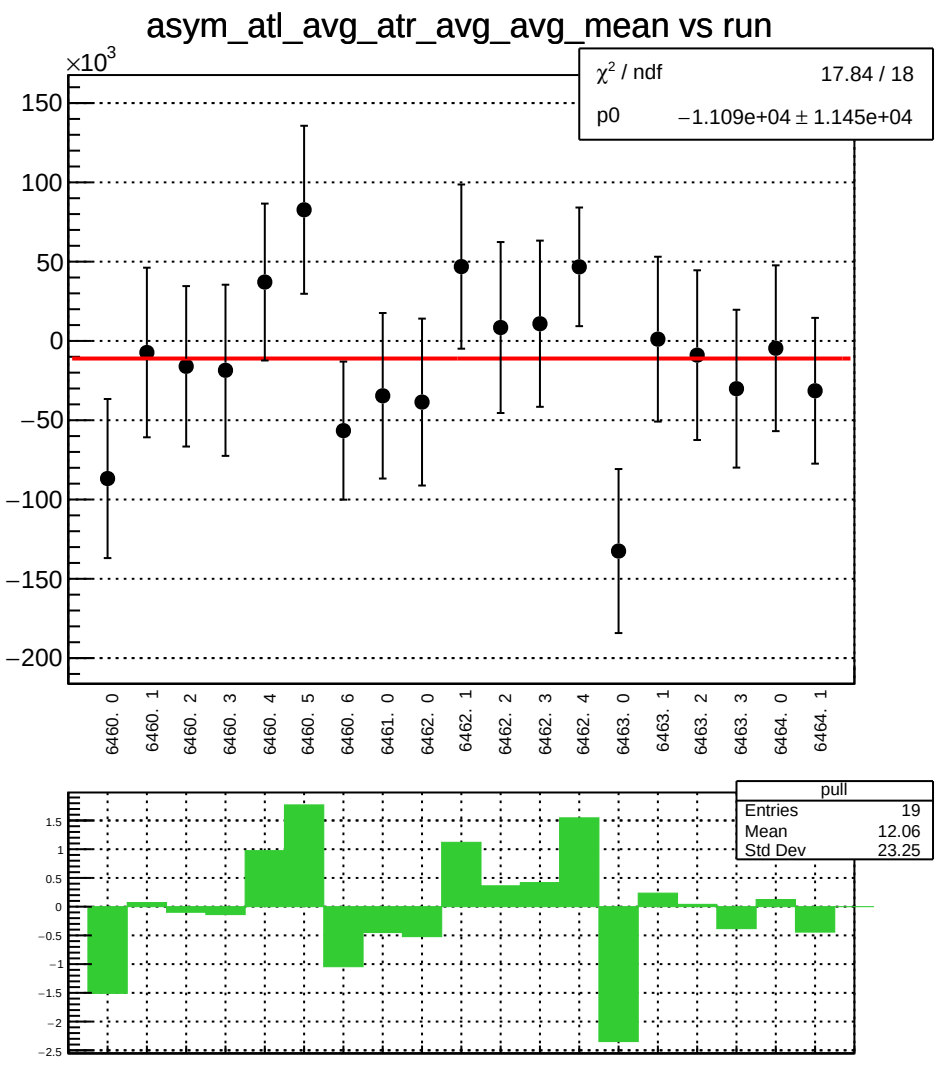

pull1D
Entries 19
Mean −0.01417
Std Dev 0.9688
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

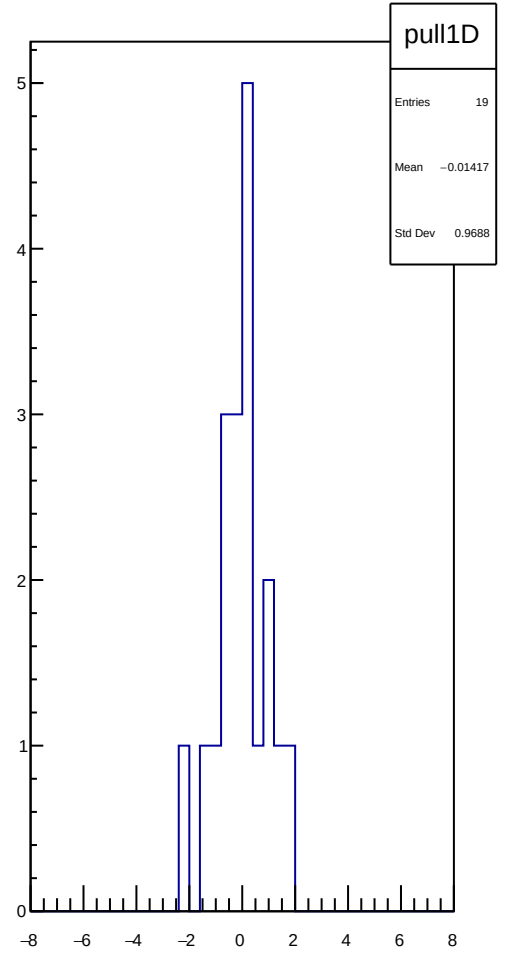

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 218.6 / 18
p0 4977 ± 8.093
5200
5100
5000
4900
4800
4700
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

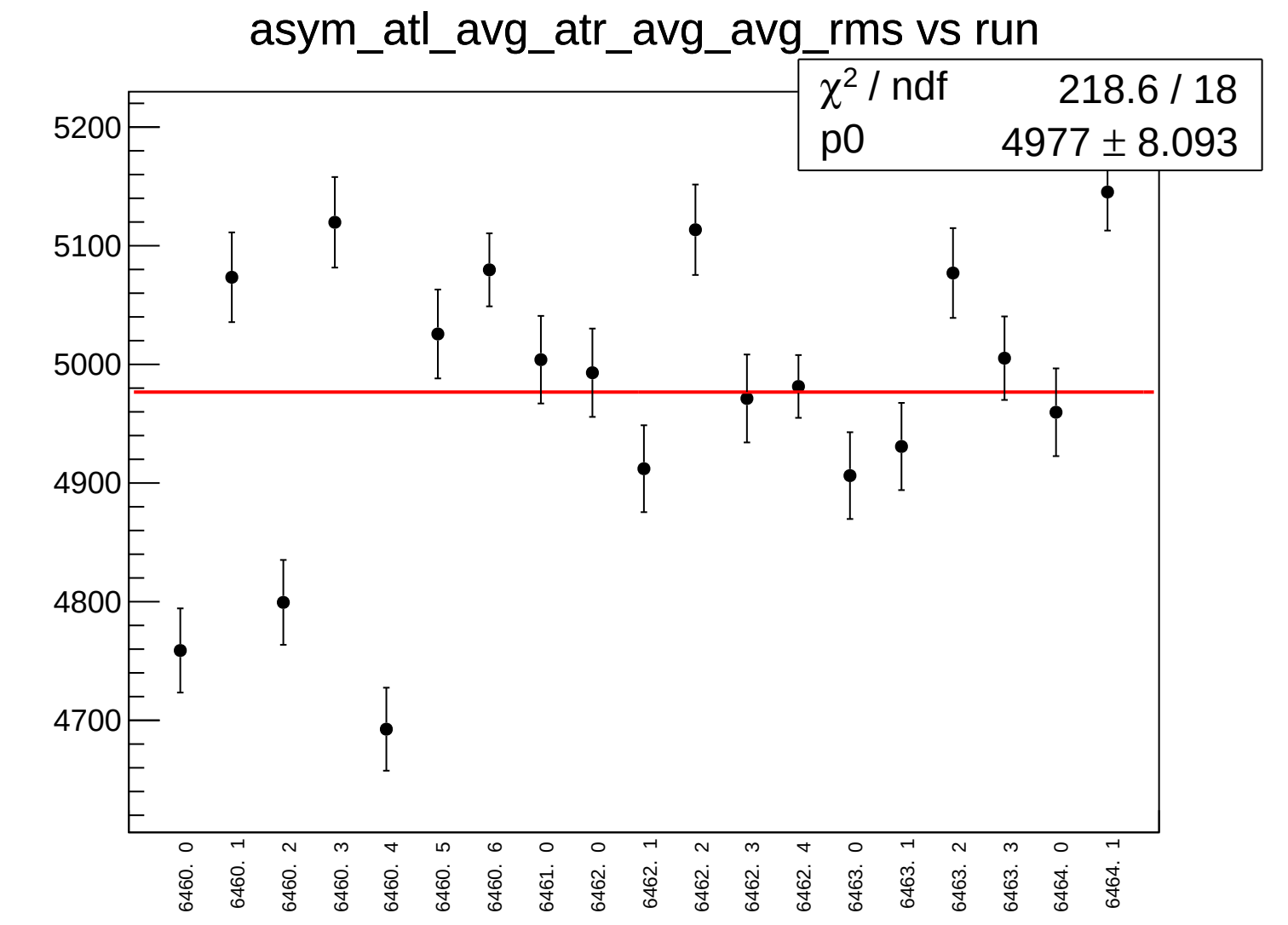

asym_atl_avg_atr_avg_avg_correction_mean vs run
χ² / ndf 0 / 18
p0 0 ± 0.2294
1
0.8
0.6
0.4
0.2
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

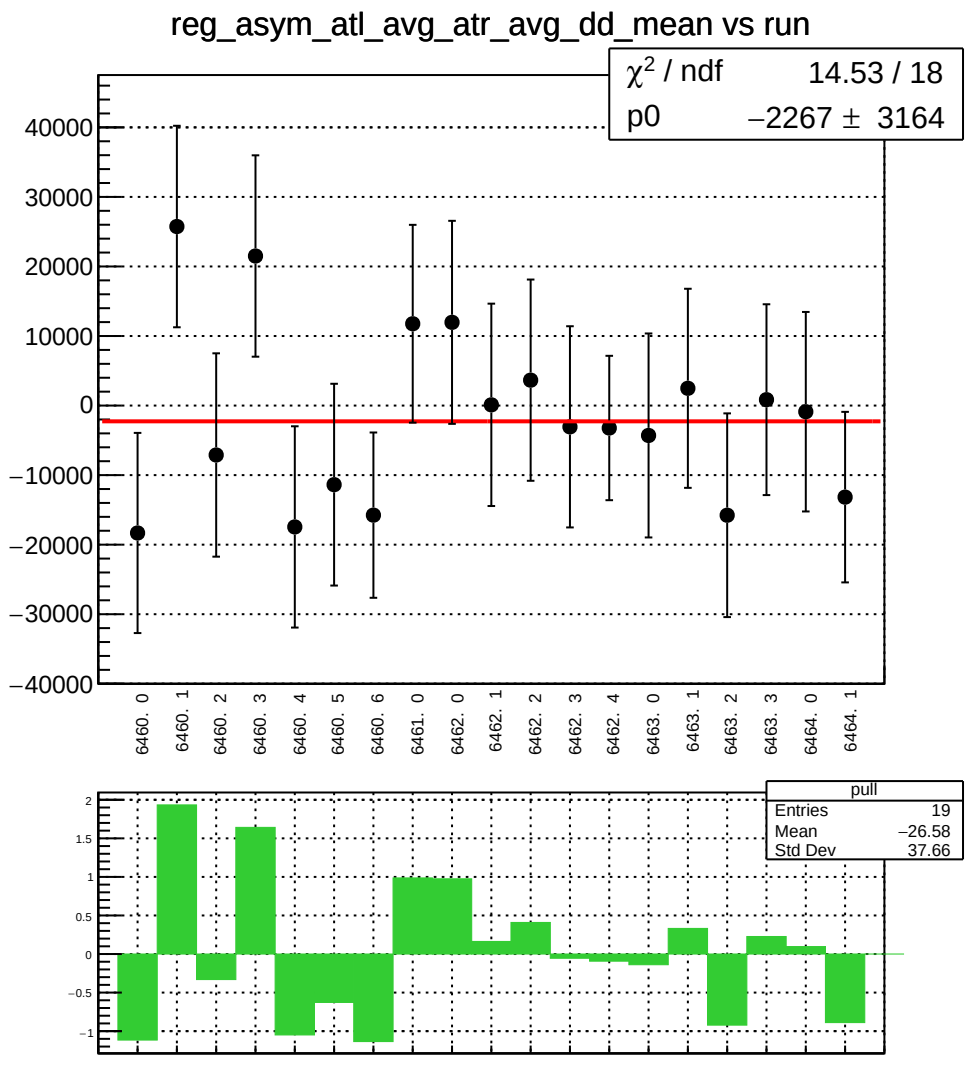

pull1D
Entries 19
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

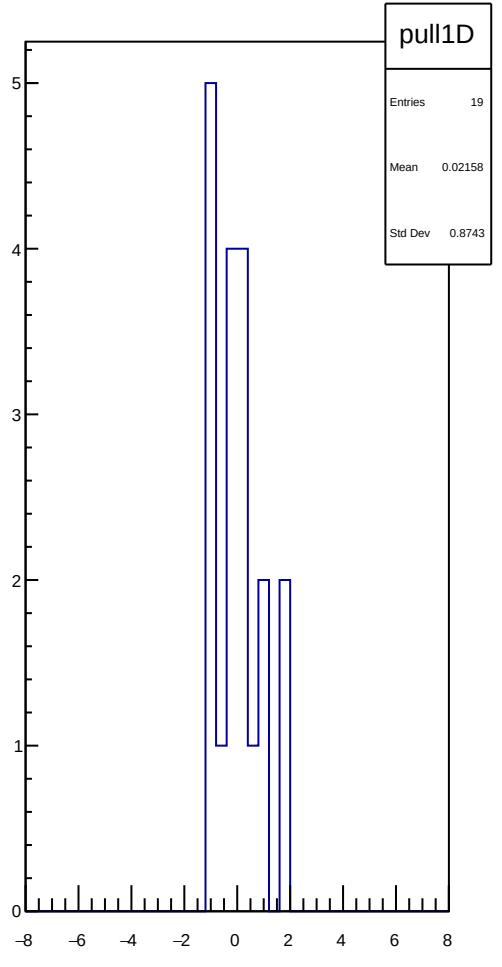

asym_atl_avg_atr_avg_avg_correction_rms vs run
χ² / ndf 0 / 18
p0 0 ± 0.2294
1
0.8
0.6
0.4
0.2
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

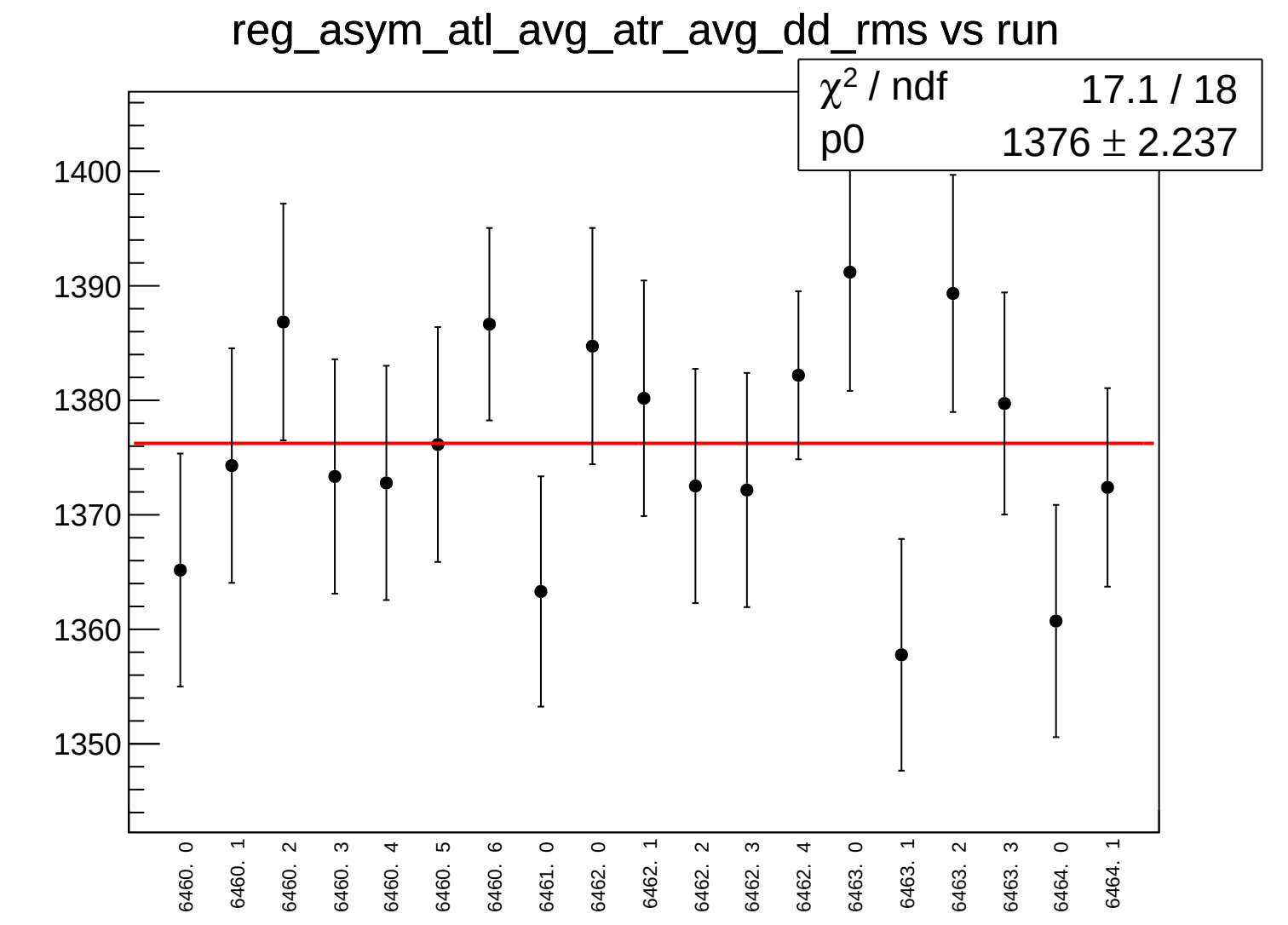

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 17.84 / 18
p0 −1.109e+04 ± 1.145e+04
150
100
50
0
−50
−100
−150
−200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 12.06
Std Dev 23.25
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

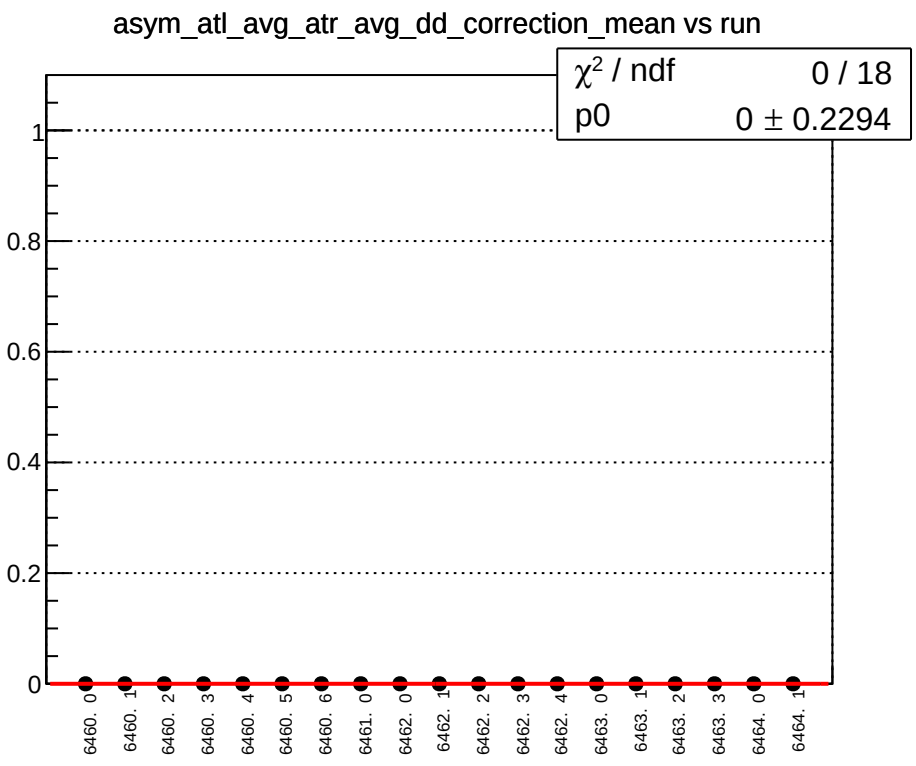

pull1D
Entries 19
Mean −0.01417
Std Dev 0.9688
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

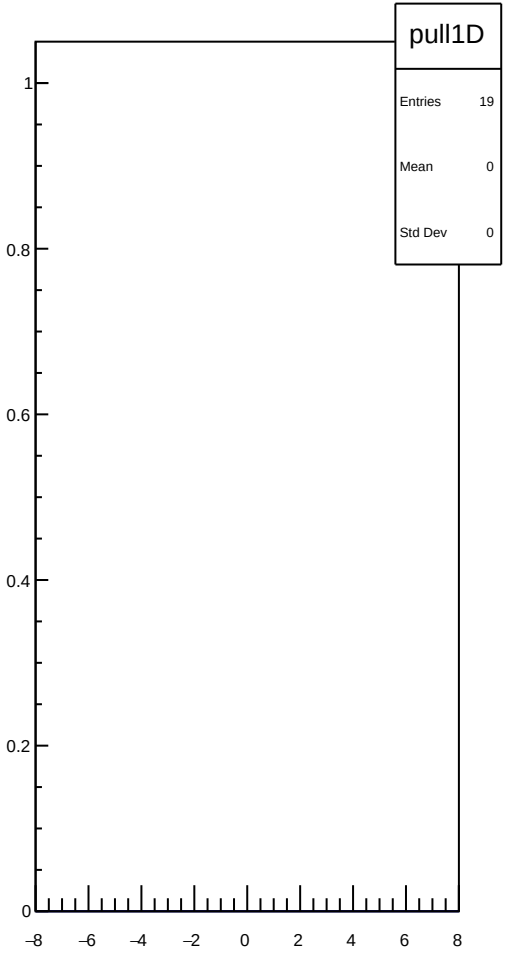

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 218.6 / 18
p0 4977 ± 8.093
5200
5100
5000
4900
4800
4700
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

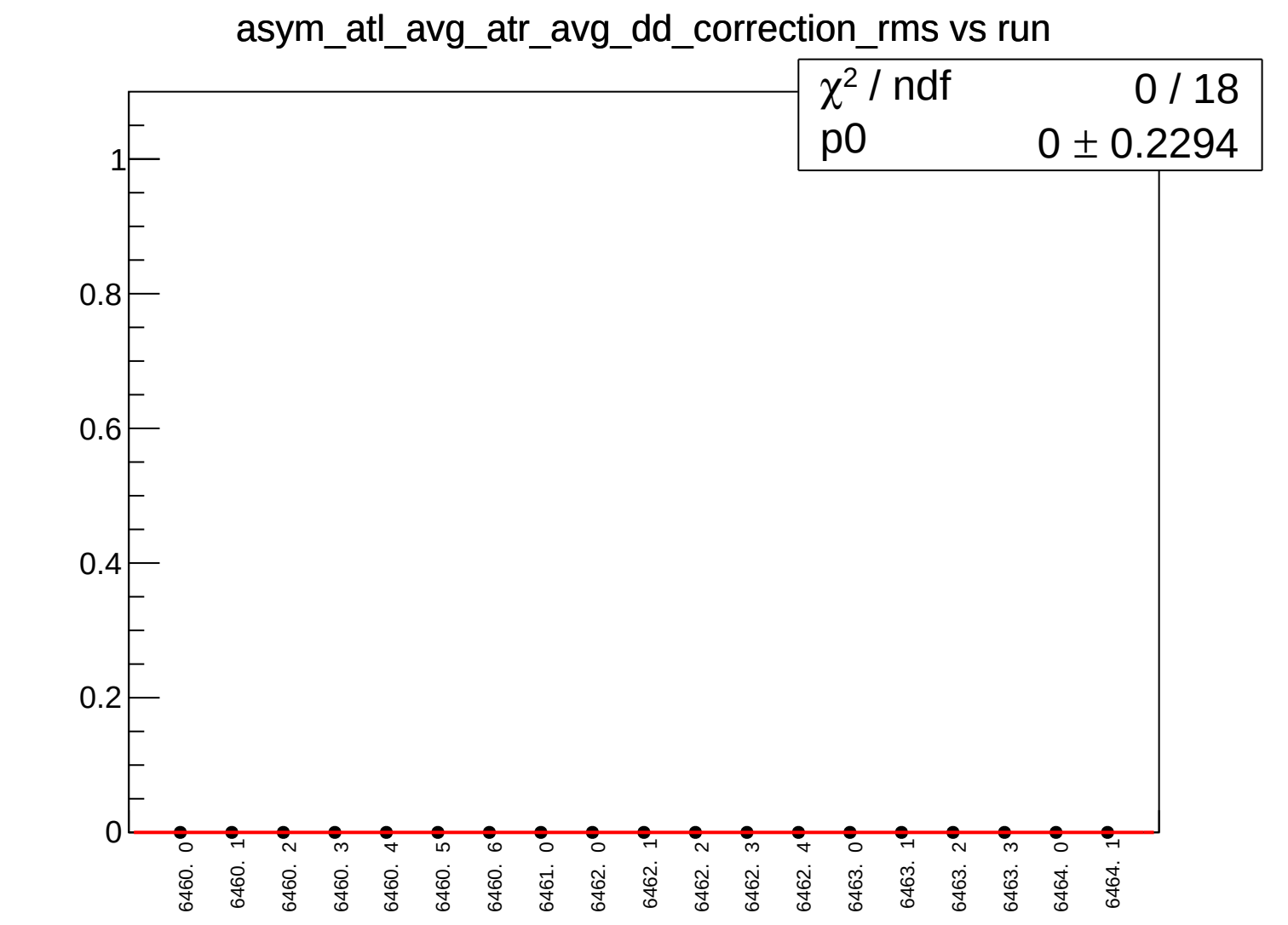

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 14.53 / 18
p0 −2267 ± 3164
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −26.58
Std Dev 37.66
2
1.5
1
0.5
0
−0.5
−1

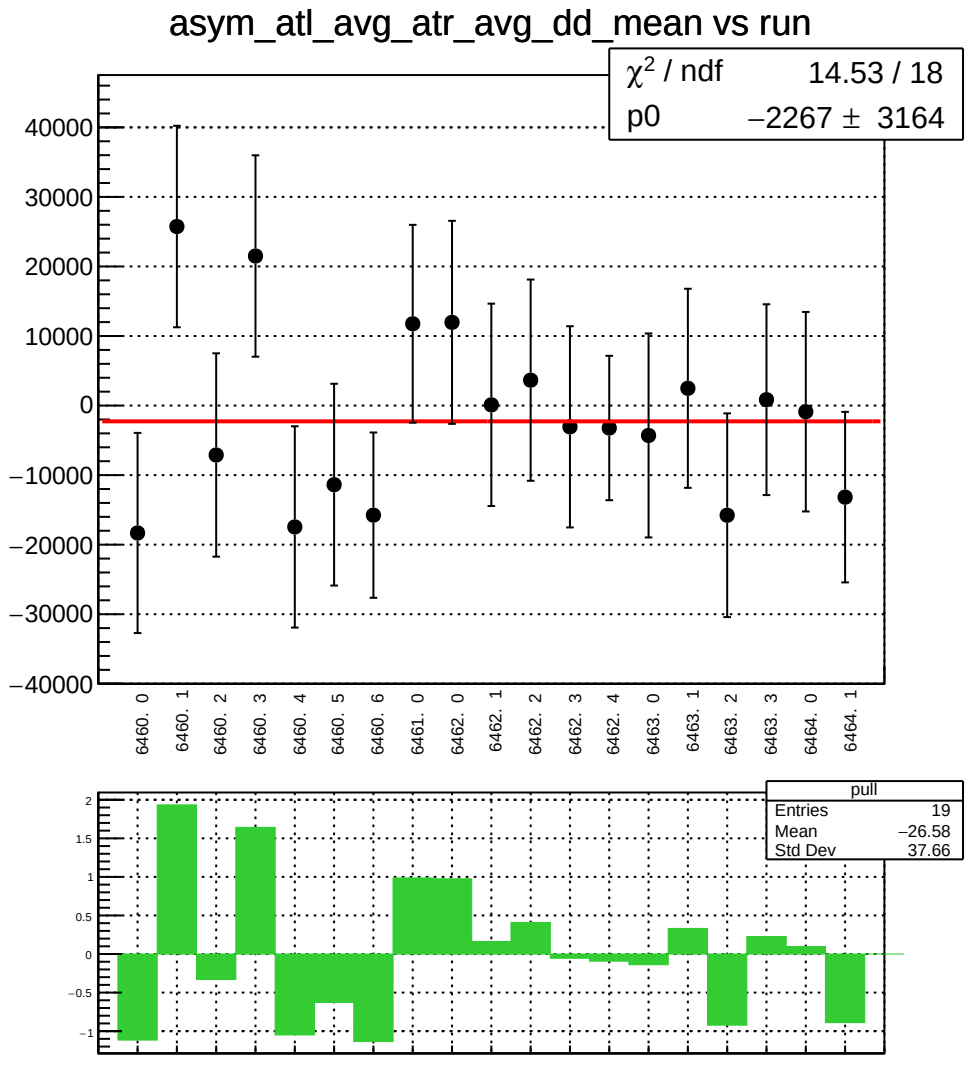

pull1D
Entries 19
Mean 0.02158
Std Dev 0.8743
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

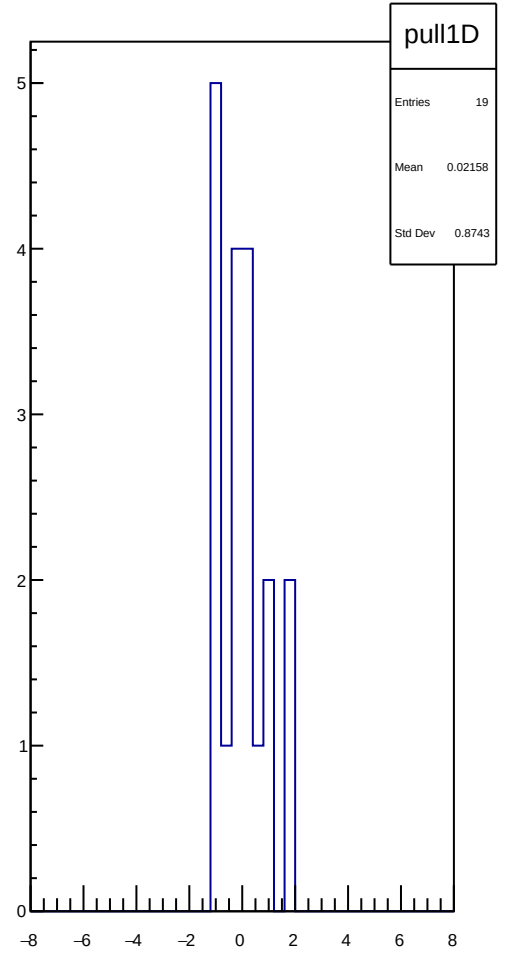

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 17.1 / 18
p0 1376 ± 2.237
1400
1390
1380
1370
1360
1350
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

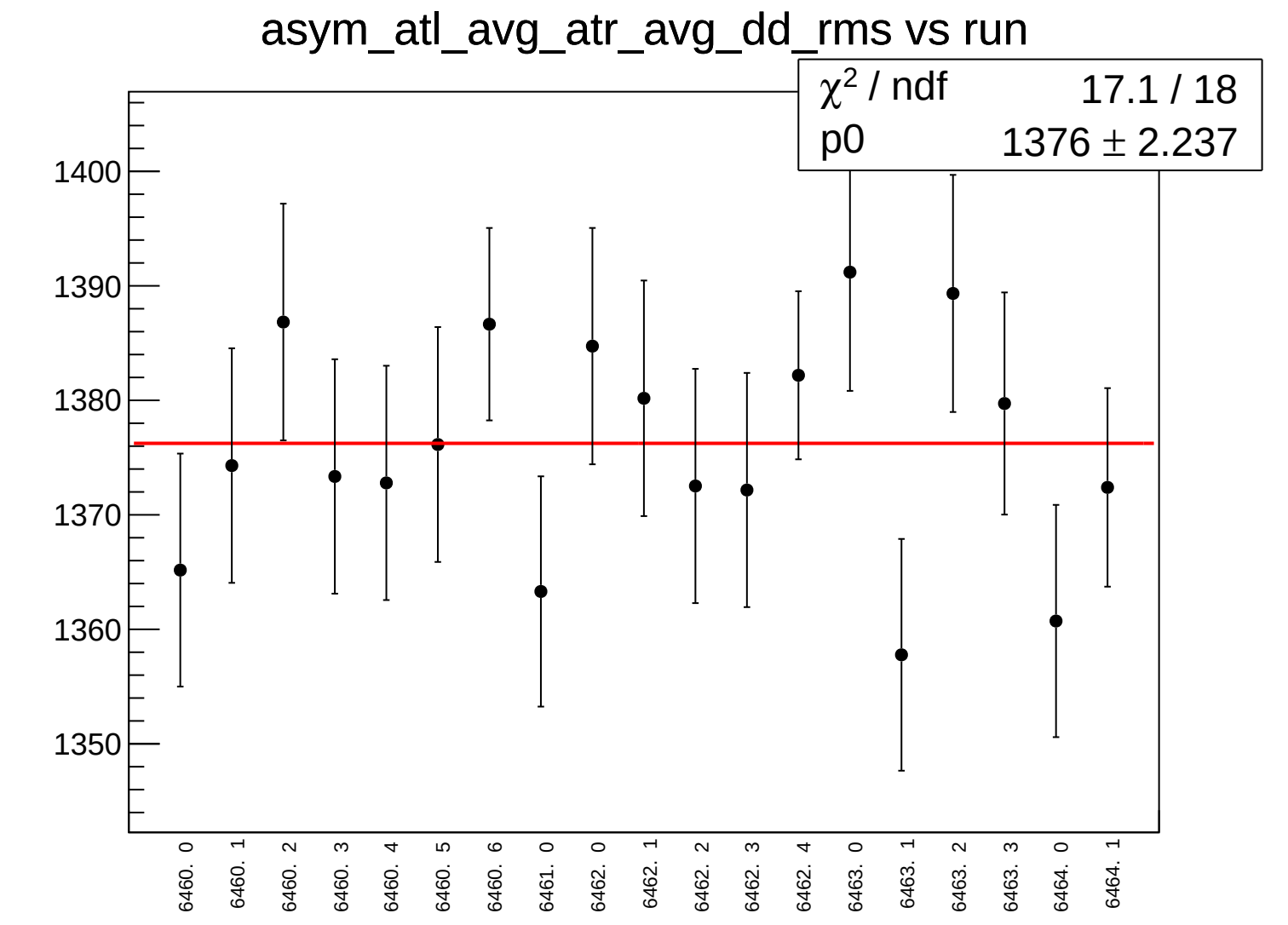

asym_atl_avg_atr_avg_dd_correction_mean vs run
χ² / ndf 0 / 18
p0 0 ± 0.2294
1
0.8
0.6
0.4
0.2
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

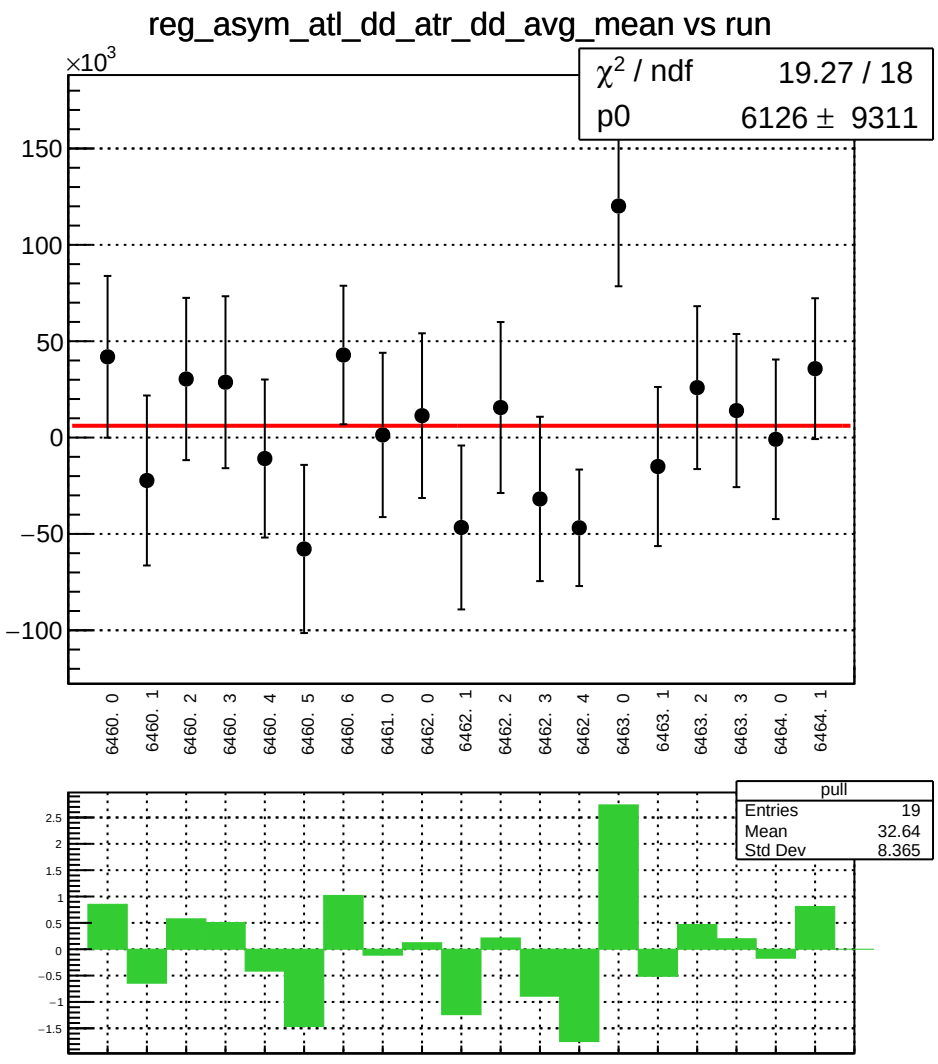

pull1D
Entries 19
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

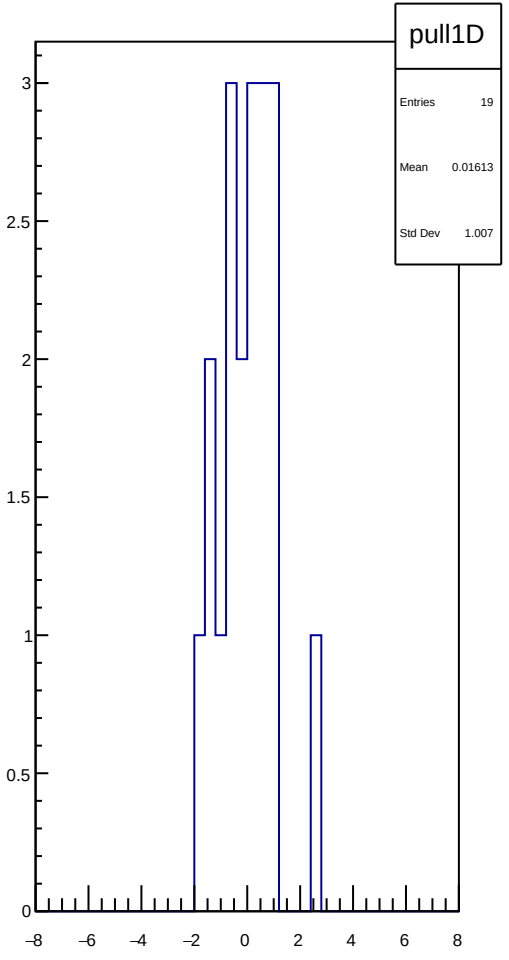

asym_atl_avg_atr_avg_dd_correction_rms vs run
χ² / ndf 0 / 18
p0 0 ± 0.2294
1
0.8
0.6
0.4
0.2
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

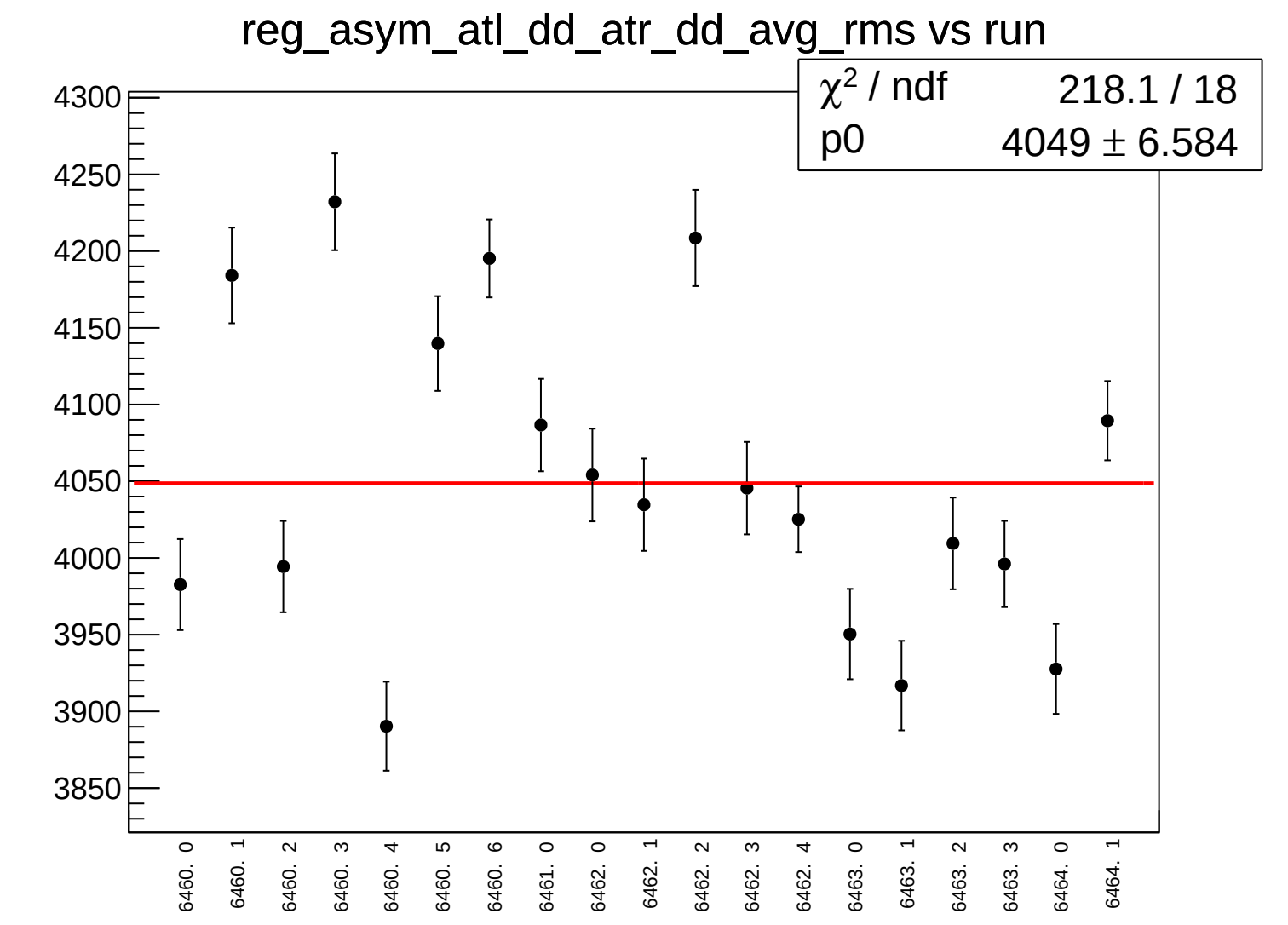

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 14.53 / 18
p0 −2267 ± 3164
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −26.58
Std Dev 37.66
2
1.5
1
0.5
0
−0.5
−1

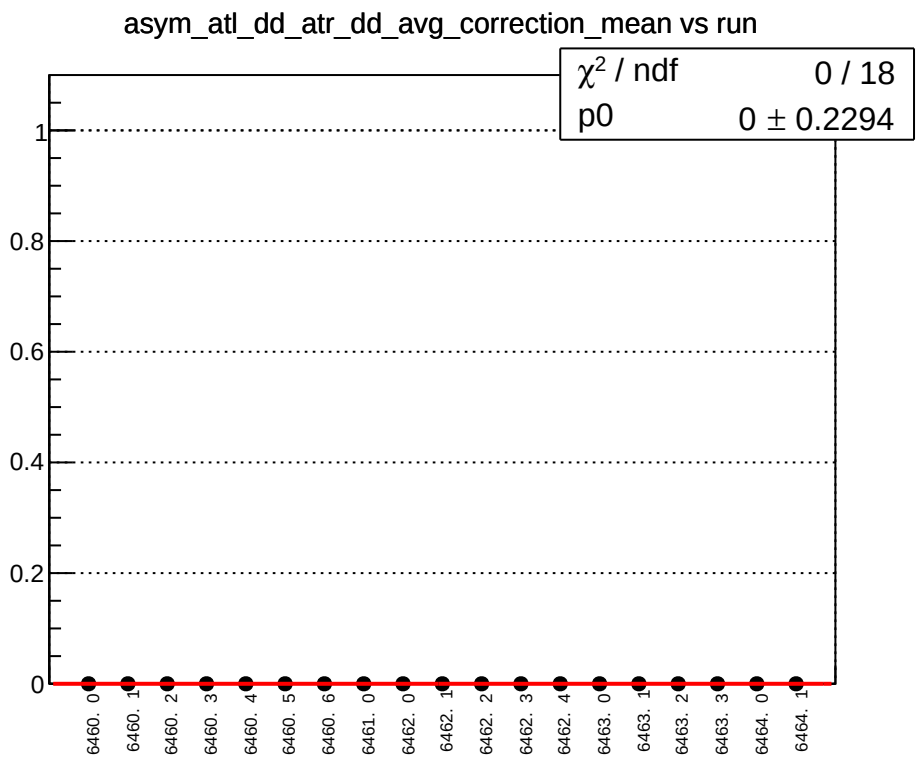

pull1D
Entries 19
Mean 0.02158
Std Dev 0.8743
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

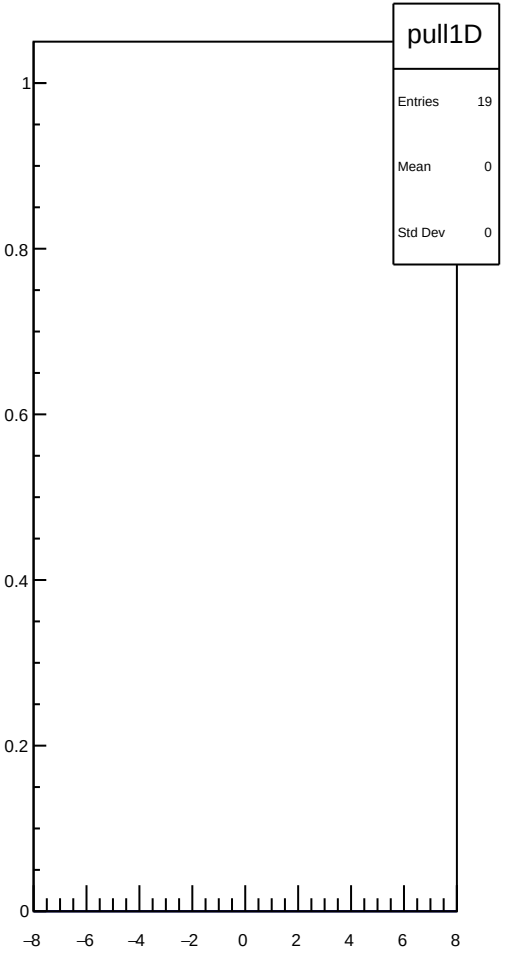

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 17.1 / 18
p0 1376 ± 2.237
1400
1390
1380
1370
1360
1350
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

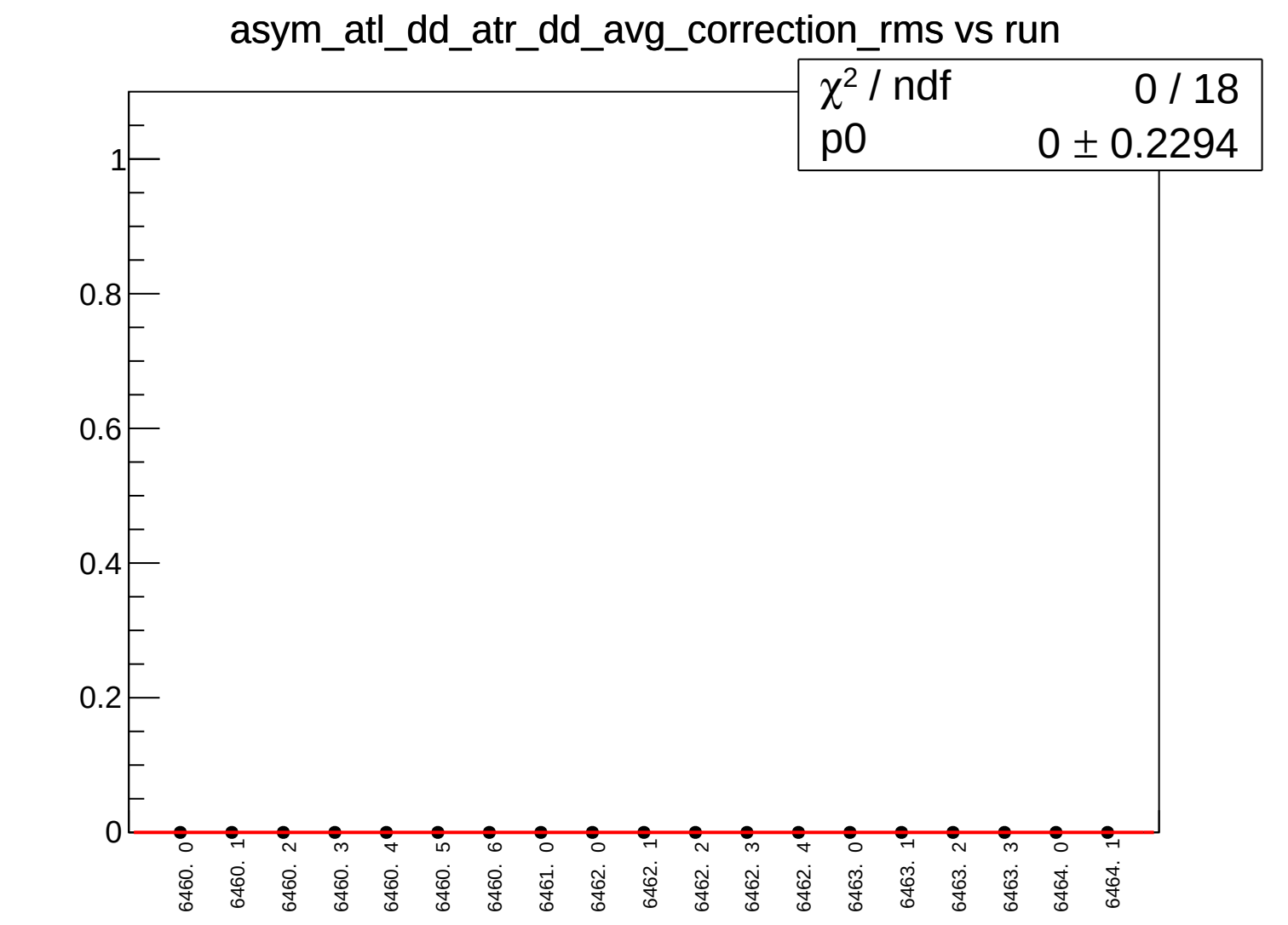

reg_asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ^2 / ndf 19.27 / 18
p0 6126 ± 9311
150
100
50
0
−50
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 32.64
Std Dev 8.365
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

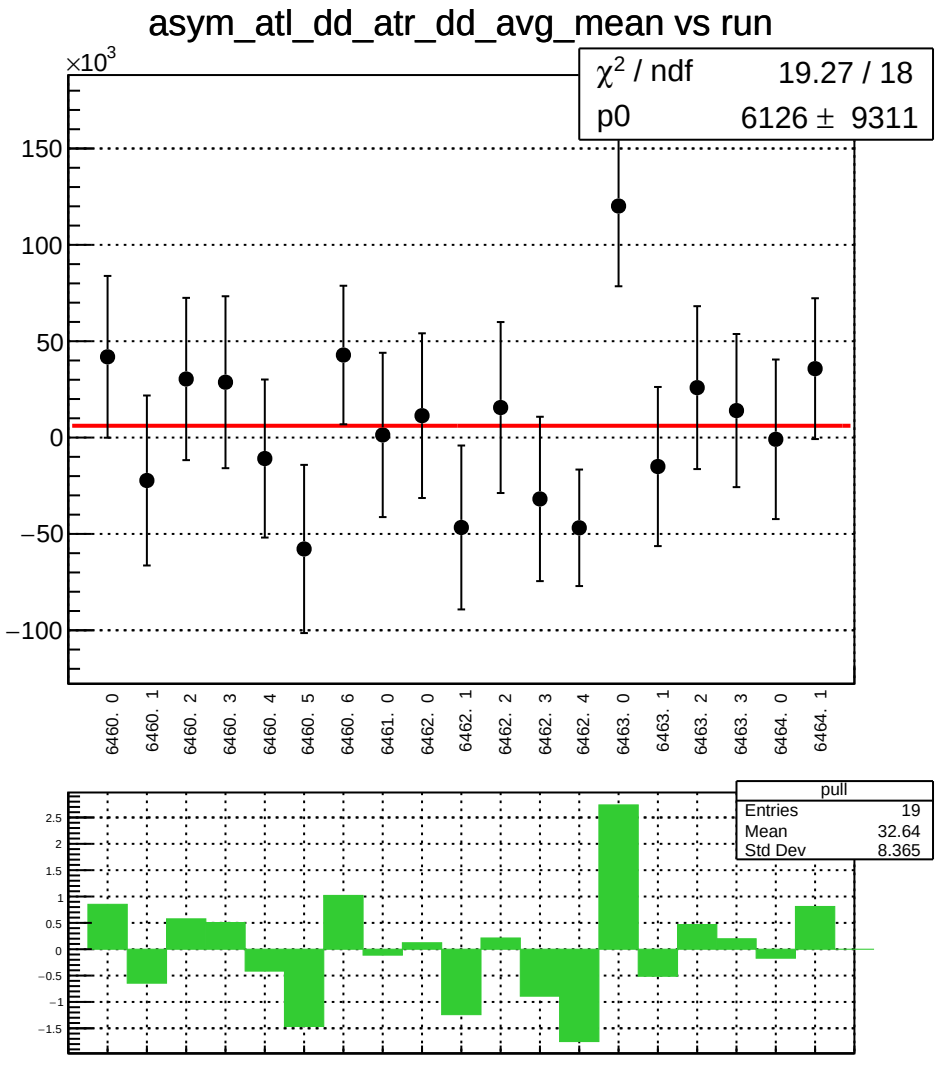

pull1D
Entries 19
Mean 0.01613
Std Dev 1.007
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

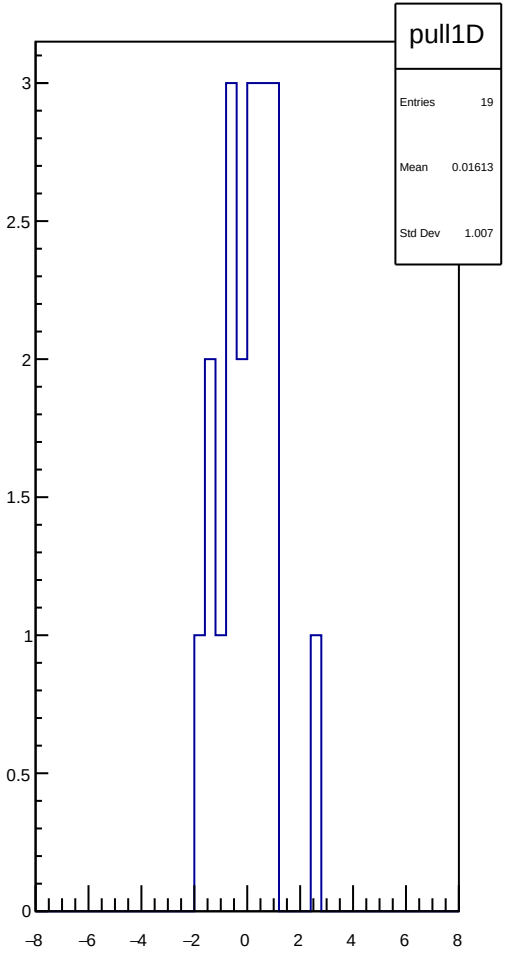

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 218.1 / 18
p0 4049 ± 6.584
4300
4250
4200
4150
4100
4050
4000
3950
3900
3850
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

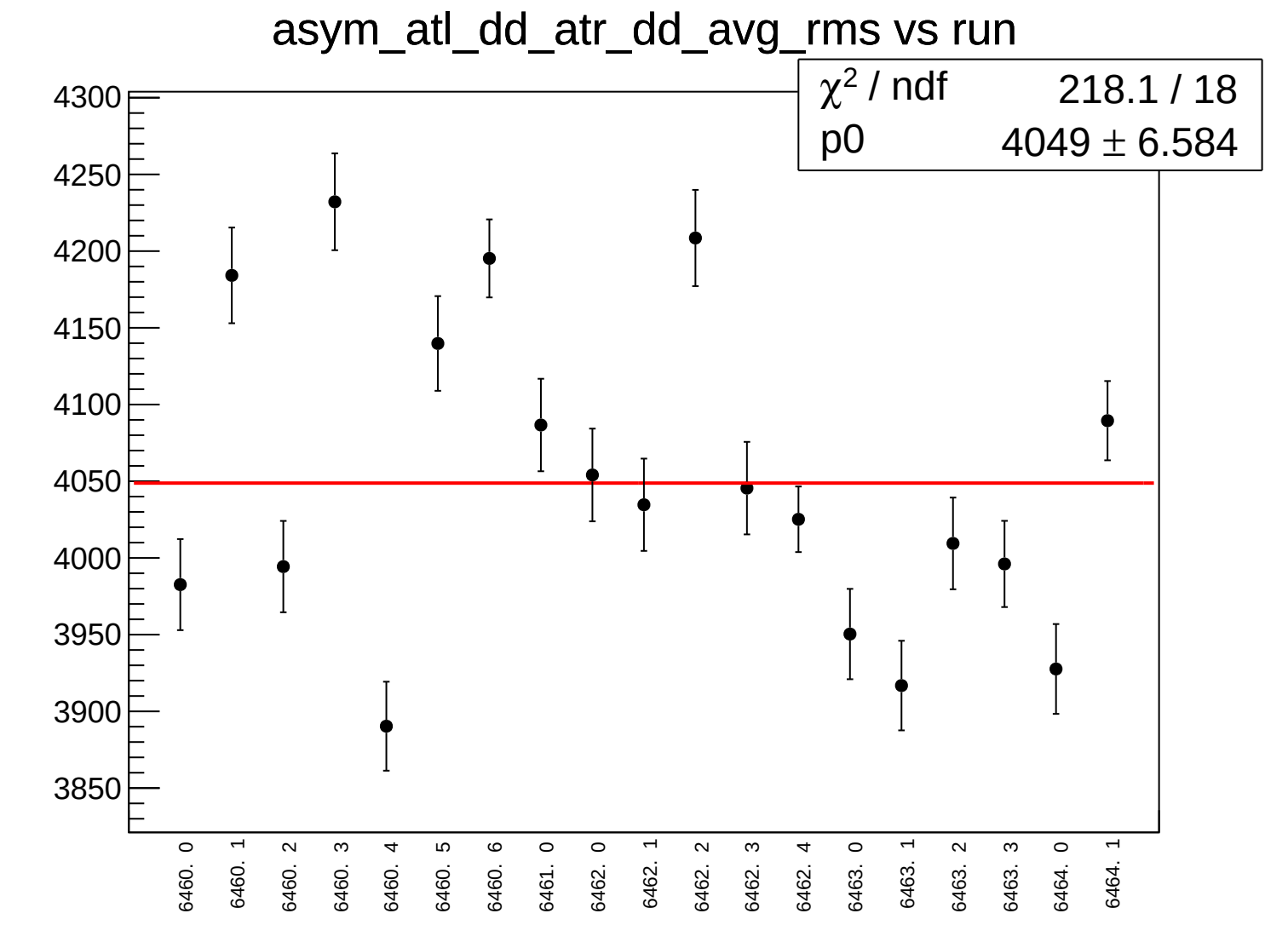

asym_atl_dd_atr_dd_avg_correction_mean vs run
χ² / ndf 0 / 18
p0 0 ± 0.2294
1
0.8
0.6
0.4
0.2
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

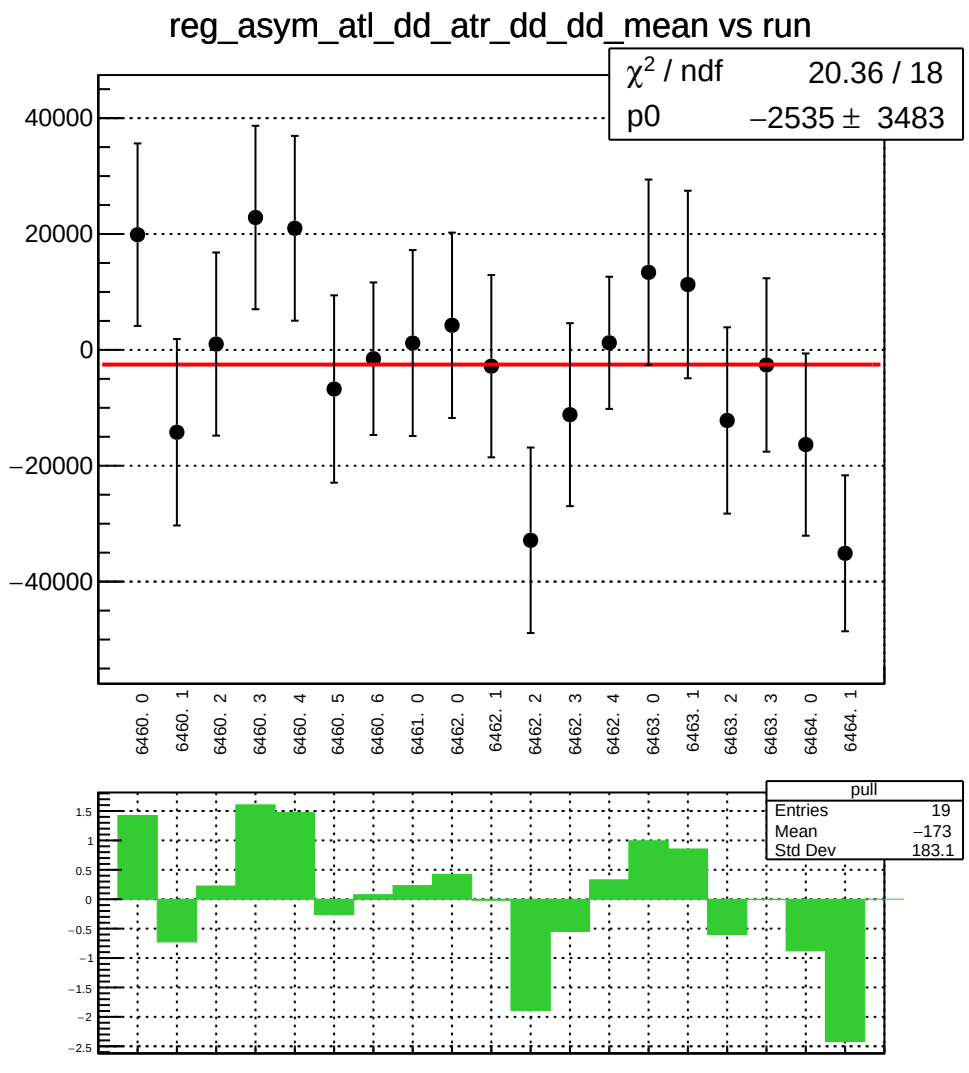

pull1D
Entries 19
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

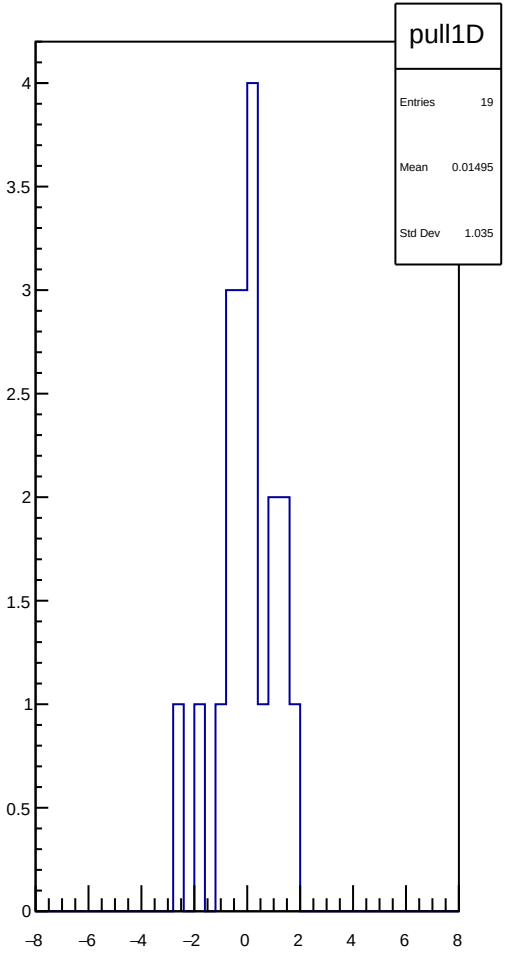

asym_atl_dd_atr_dd_avg_correction_rms vs run
χ² / ndf 0 / 18
p0 0 ± 0.2294
1
0.8
0.6
0.4
0.2
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

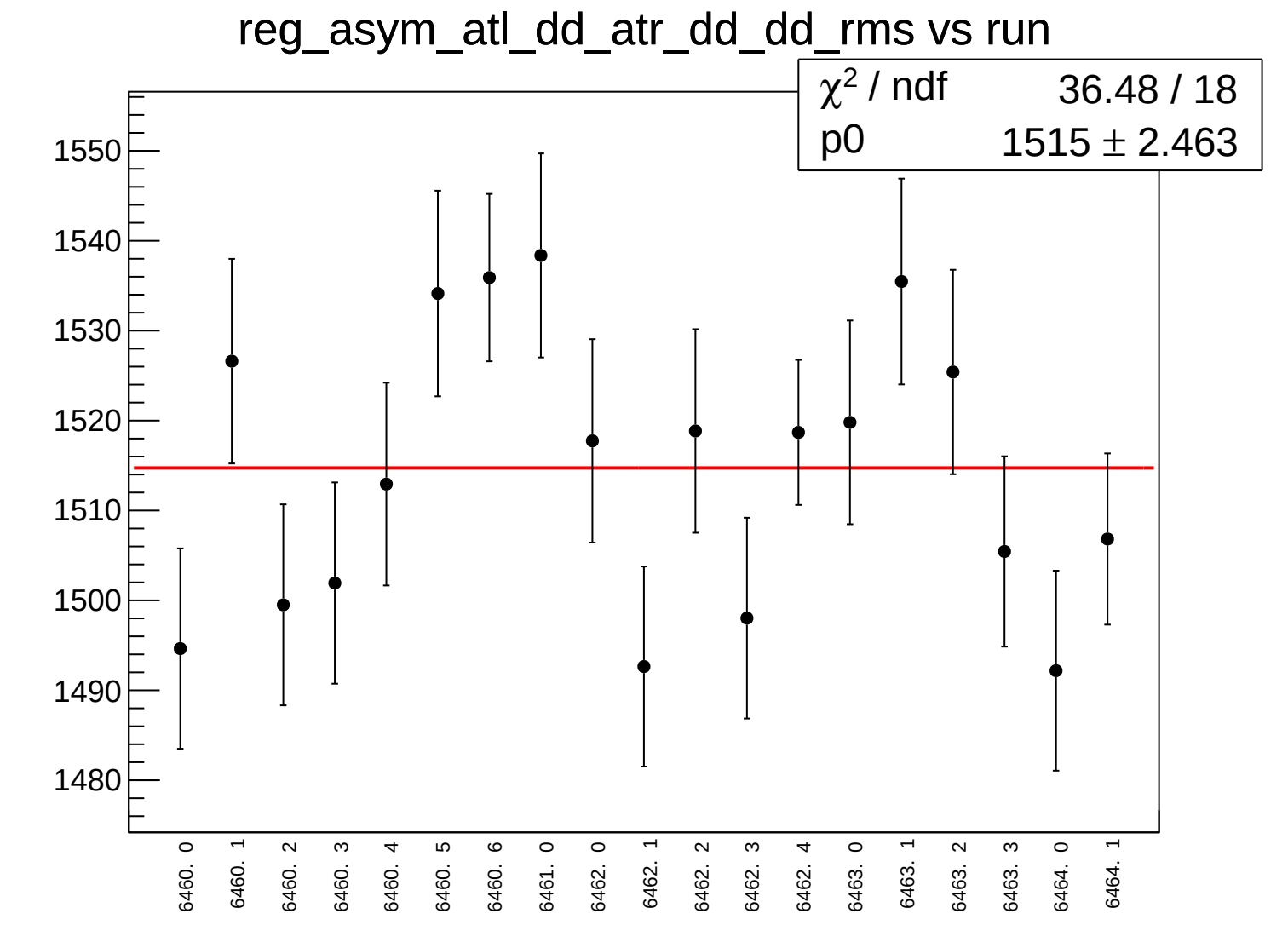

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ^2 / ndf 19.27 / 18
p0 6126 ± 9311
150
100
50
0
−50
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 32.64
Std Dev 8.365
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

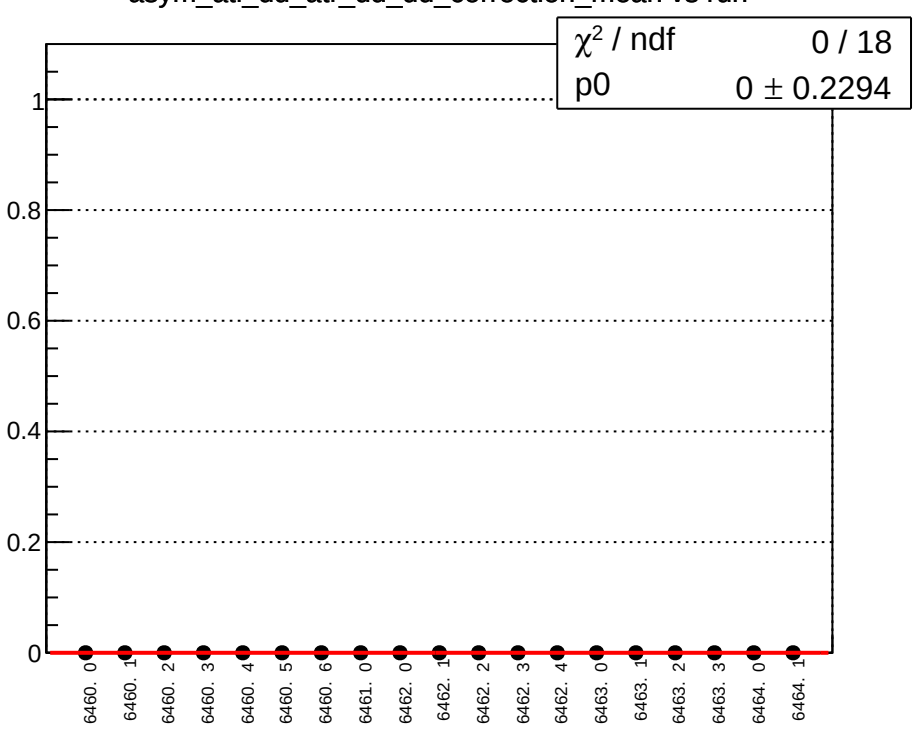

pull1D
Entries 19
Mean 0.01613
Std Dev 1.007
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

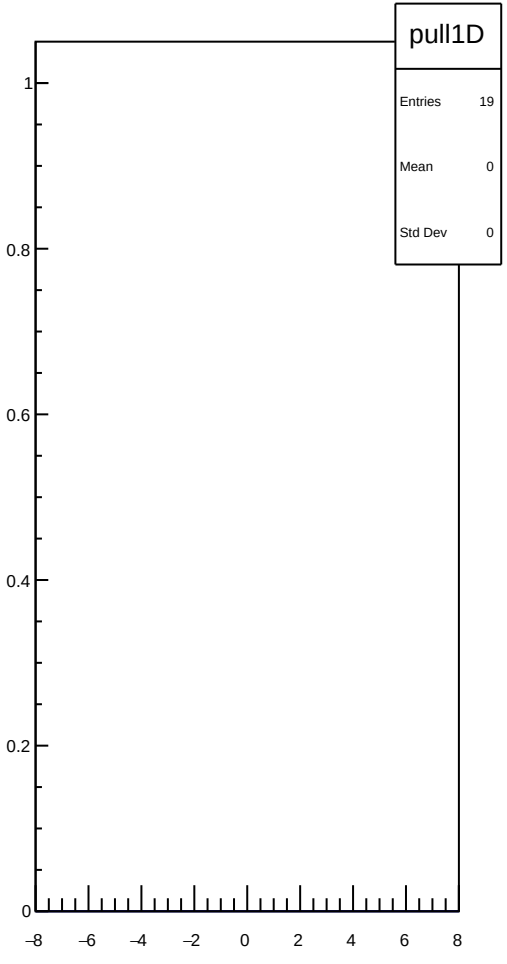

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 218.1 / 18
p0 4049 ± 6.584
4300
4250
4200
4150
4100
4050
4000
3950
3900
3850
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

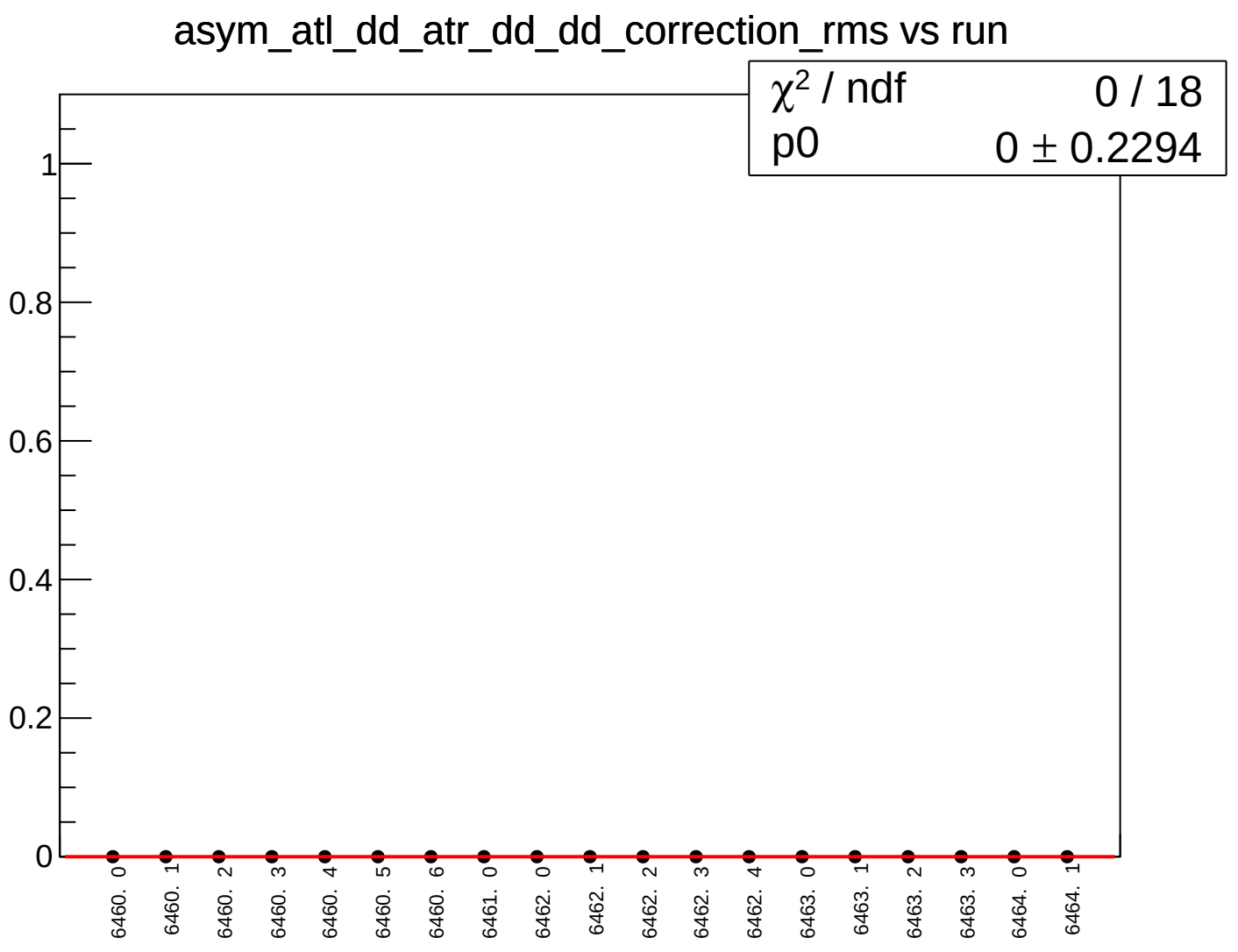

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 20.36 / 18
p0 −2535 ± 3483
40000
20000
0
−20000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −173
Std Dev 183.1
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

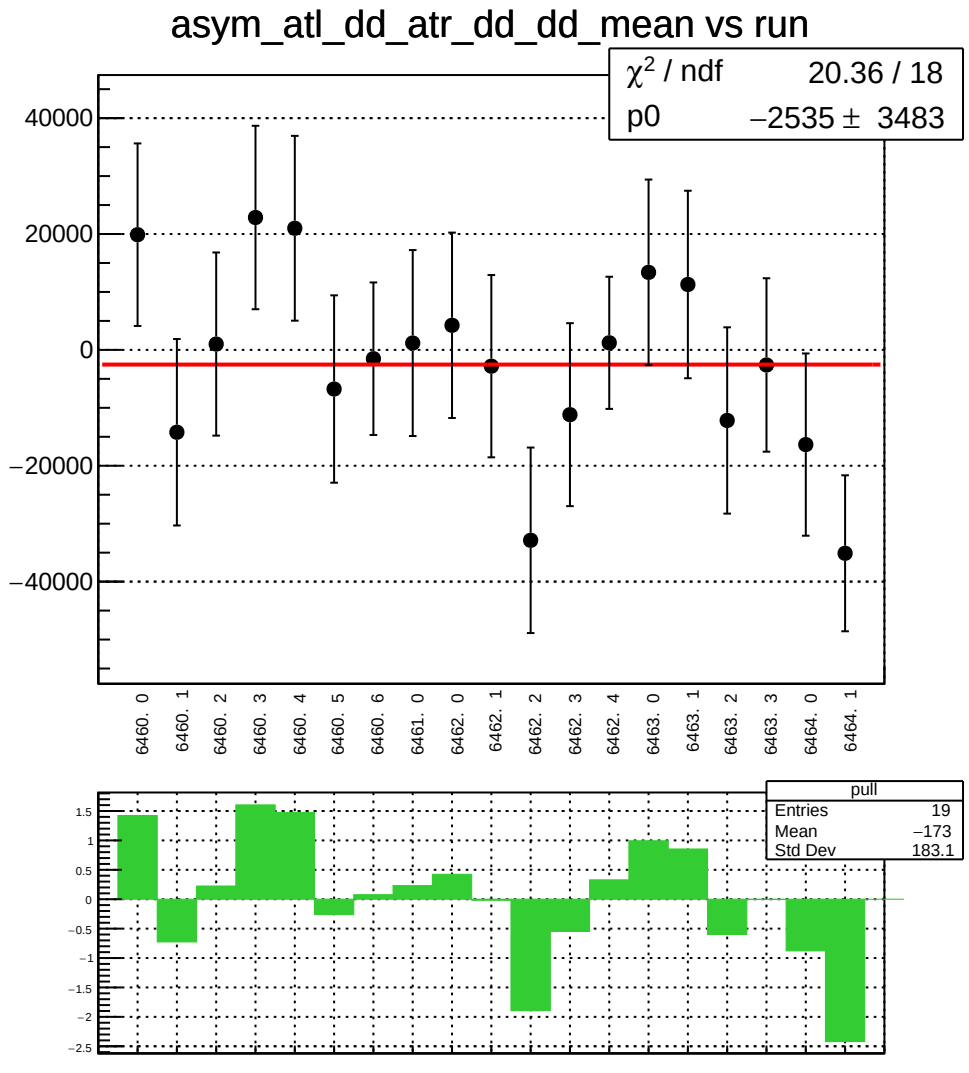

pull1D
Entries 19
Mean 0.01495
Std Dev 1.035
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

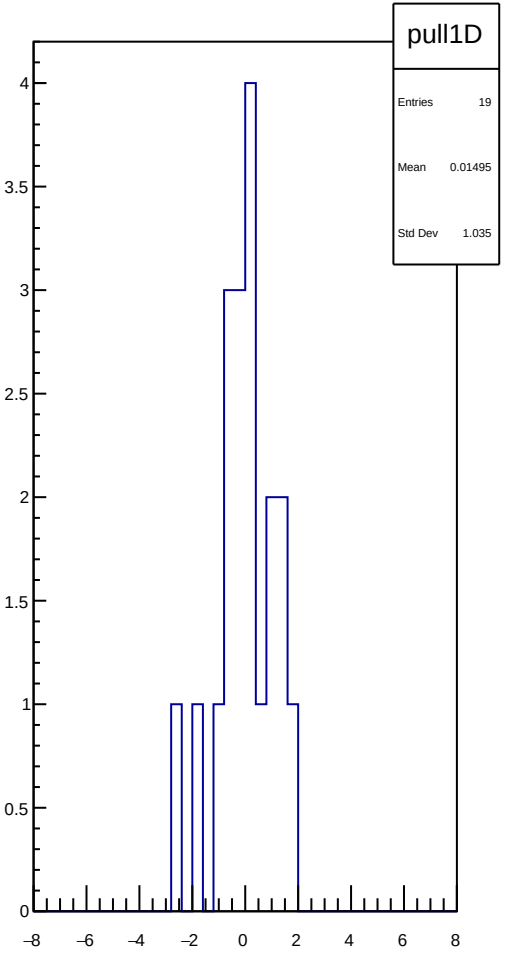

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 36.48 / 18
p0 1515 ± 2.463
1550
1540
1530
1520
1510
1500
1490
1480
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

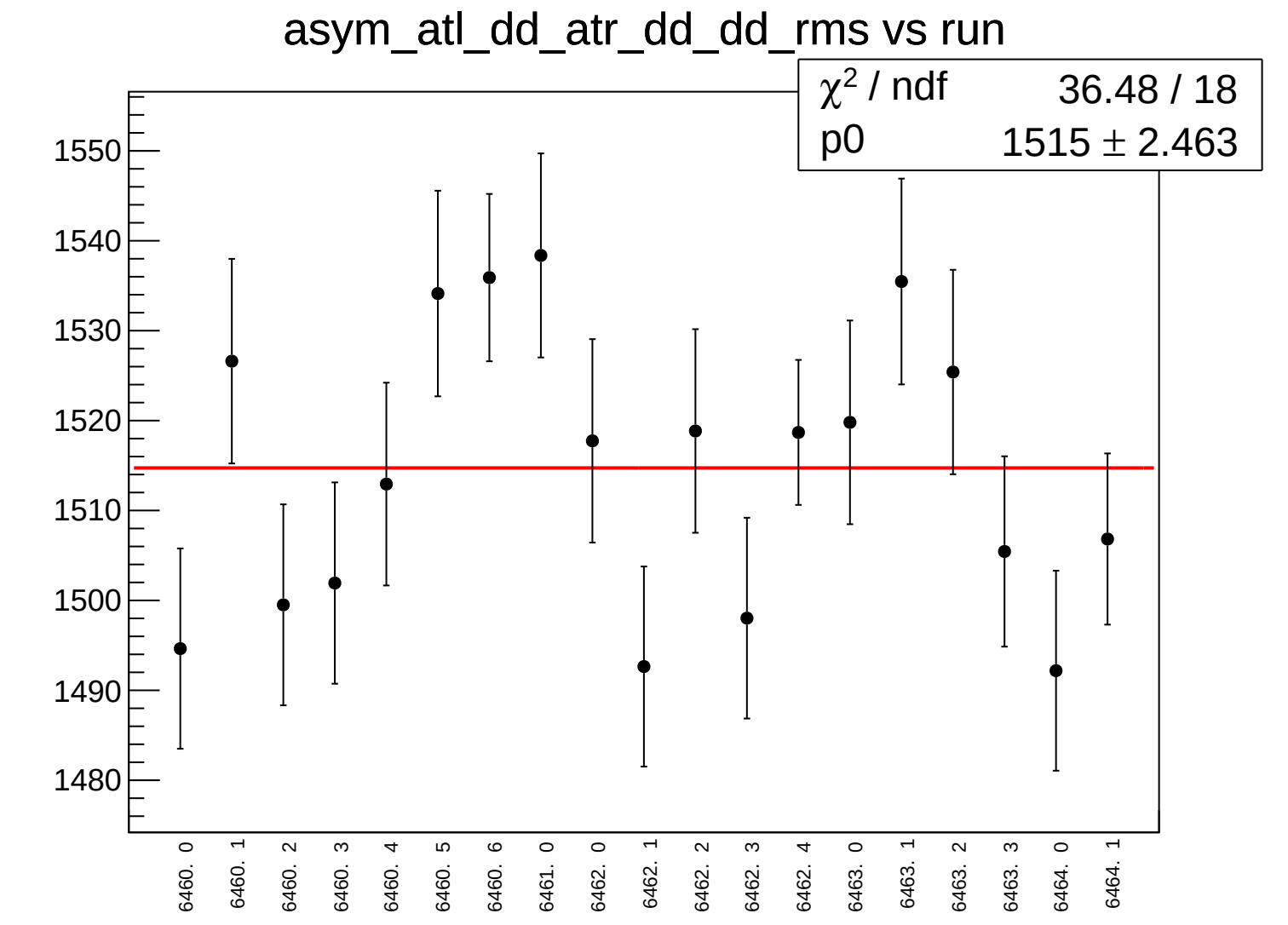

asym_atl_dd_atr_dd_dd_correction_mean vs run
χ² / ndf 0 / 18
p0 0 ± 0.2294
1
0.8
0.6
0.4
0.2
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

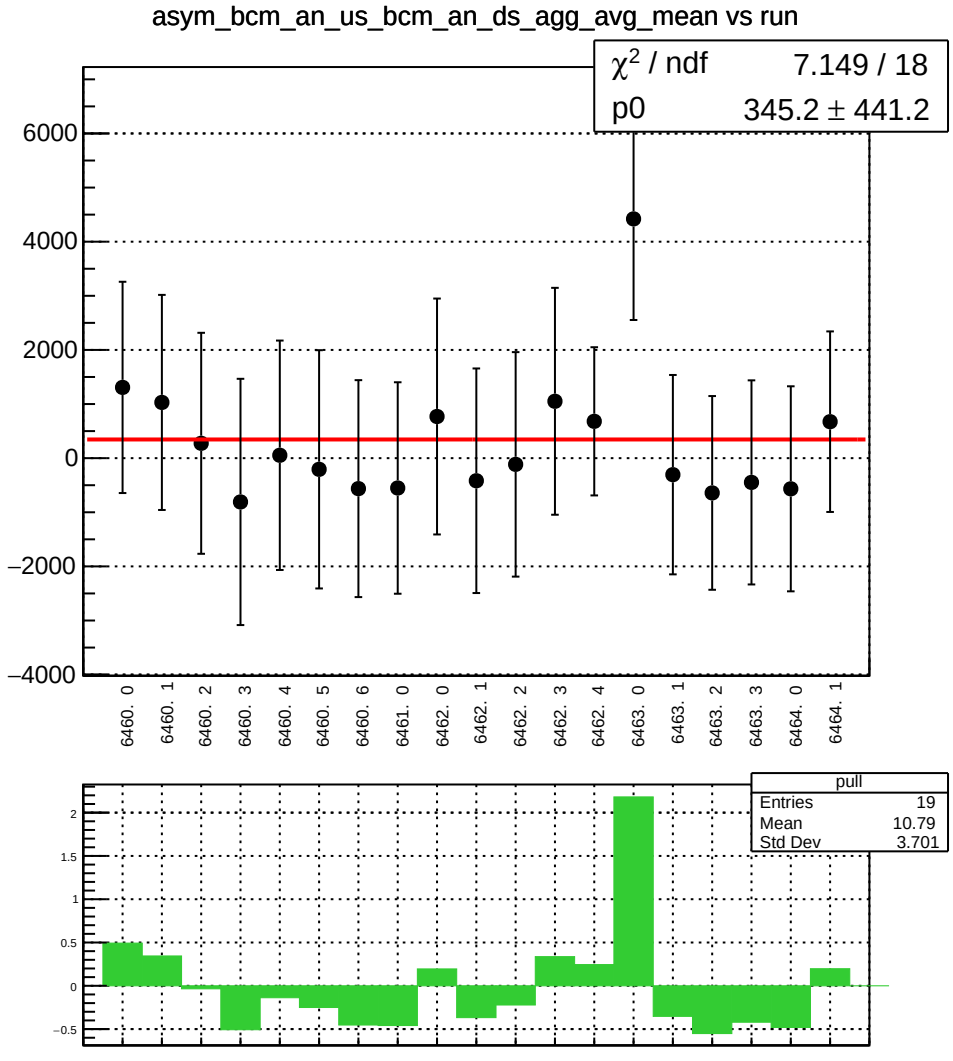

pull1D
Entries 19
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

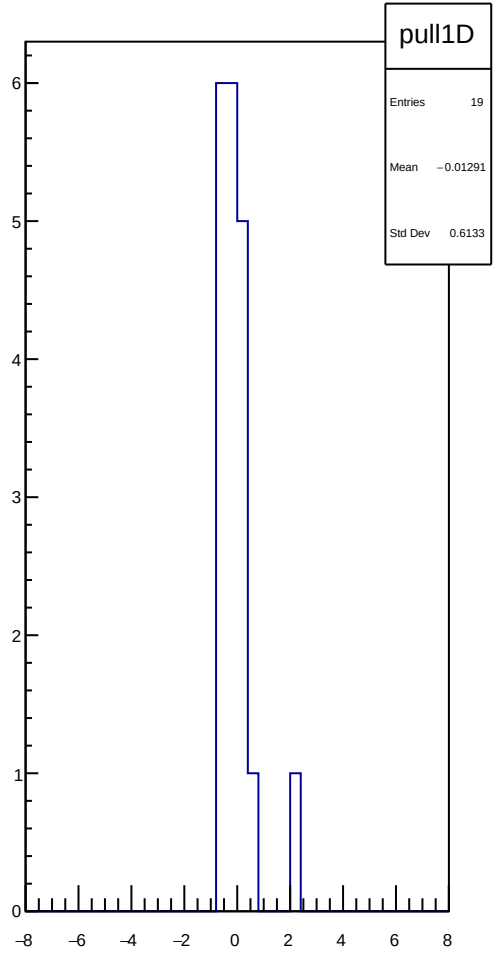

asym_atl_dd_atr_dd_dd_correction_rms vs run
χ² / ndf 0 / 18
p0 0 ± 0.2294
1
0.8
0.6
0.4
0.2
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

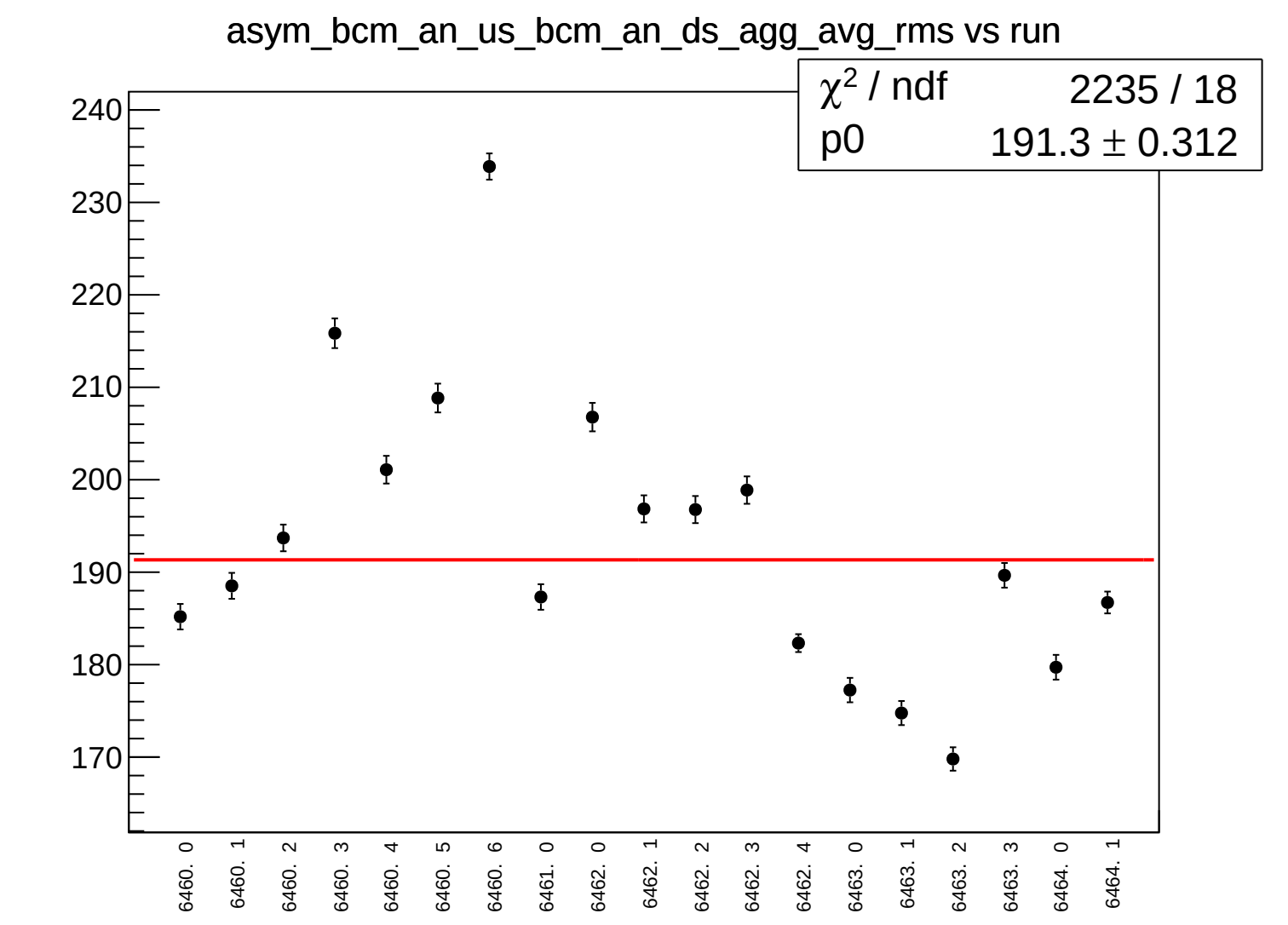

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 20.36 / 18
p0 −2535 ± 3483
40000
20000
0
−20000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −173
Std Dev 183.1
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

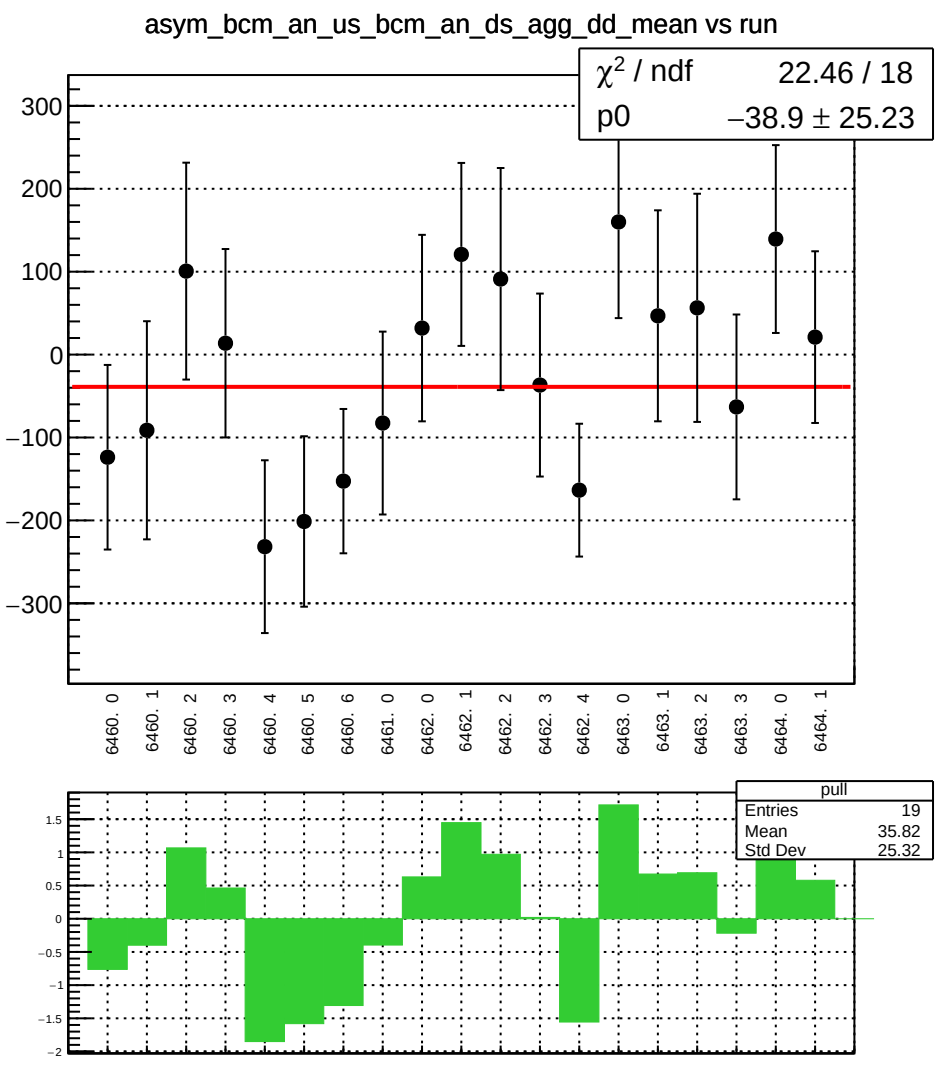

pull1D
Entries 19
Mean 0.01495
Std Dev 1.035
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

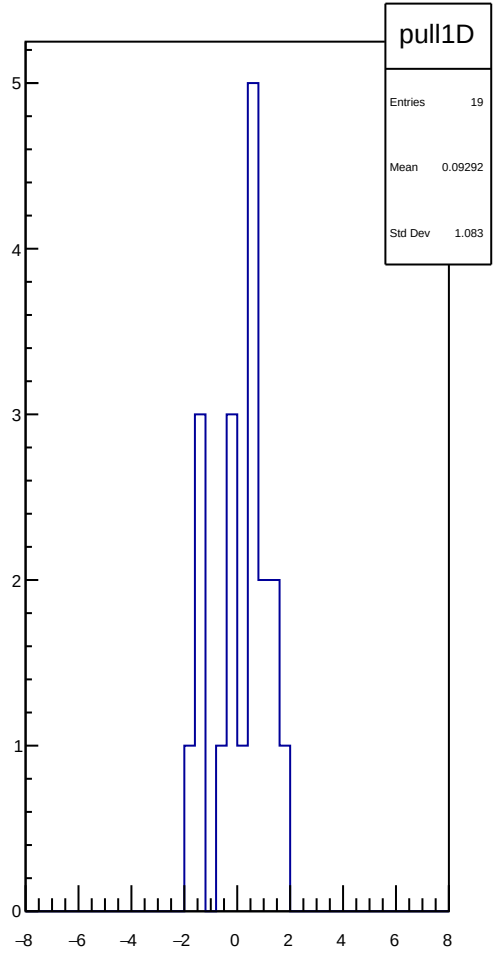

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 36.48 / 18
p0 1515 ± 2.463
1550
1540
1530
1520
1510
1500
1490
1480
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

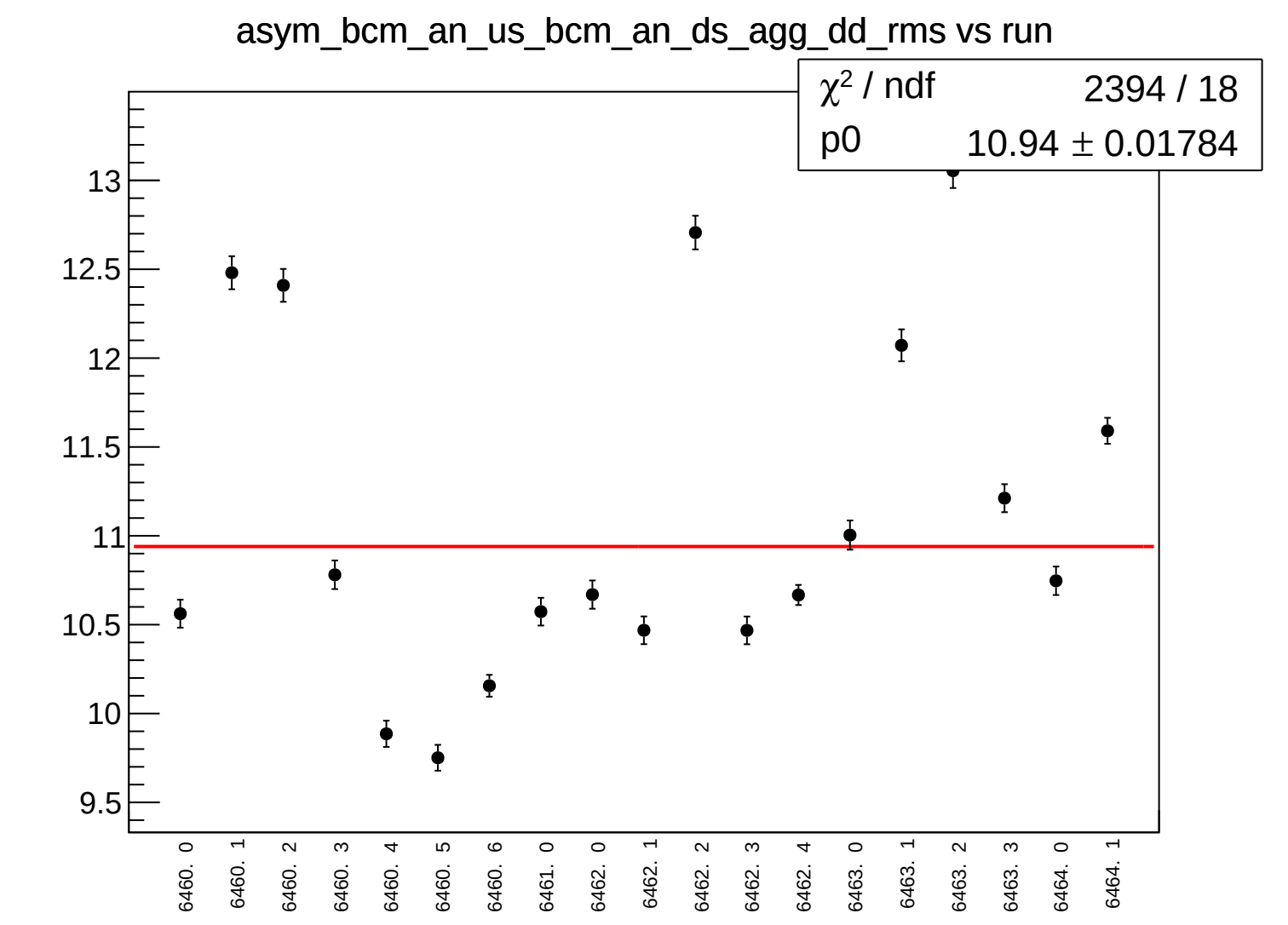

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 7.149 / 18
p0 345.2 ± 441.2
6000
4000
2000
0
−2000
−4000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 10.79
Std Dev 3.701
2
1.5
1
0.5
0
−0.5

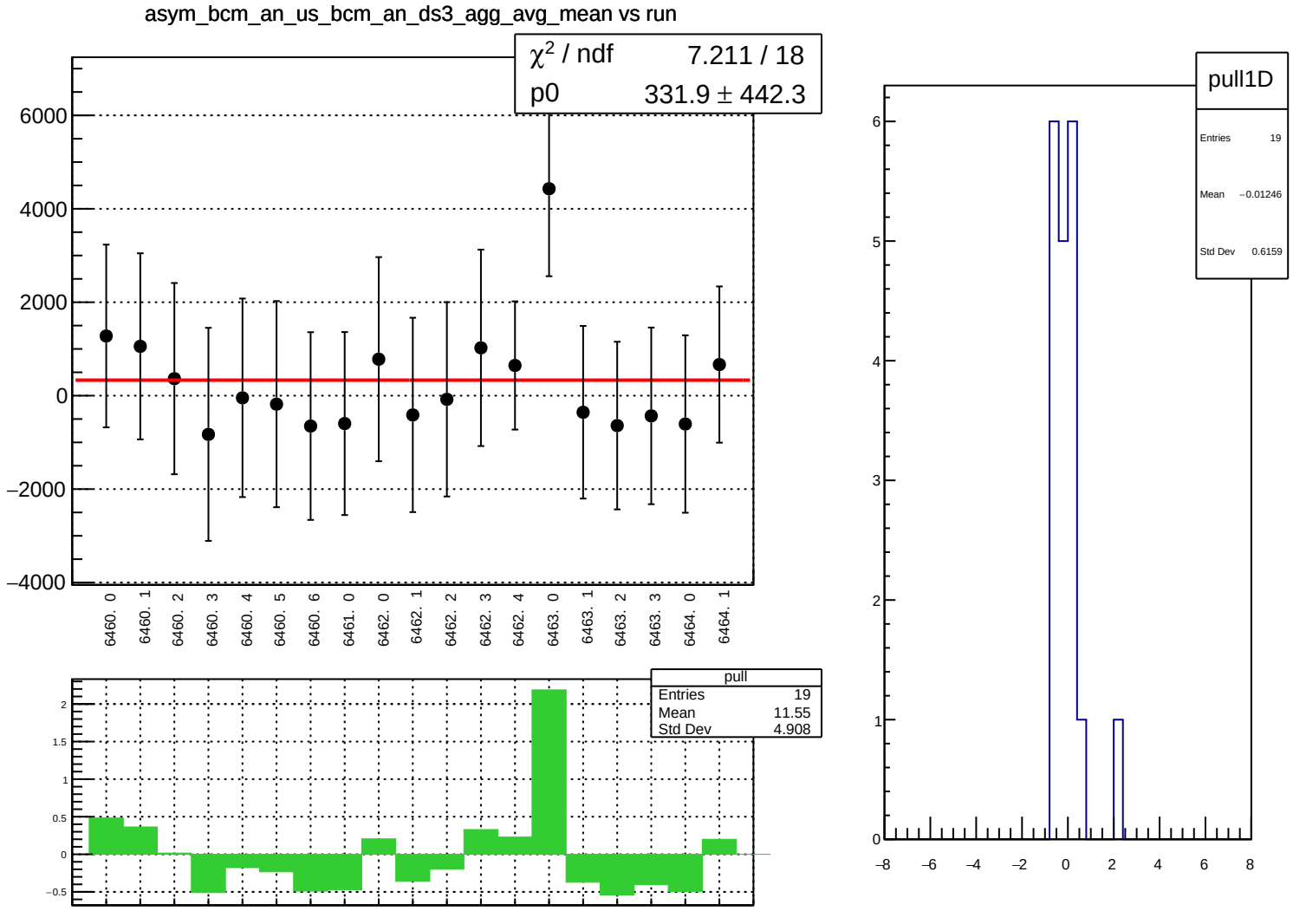

pull1D
Entries 19
Mean −0.01291
Std Dev 0.6133
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

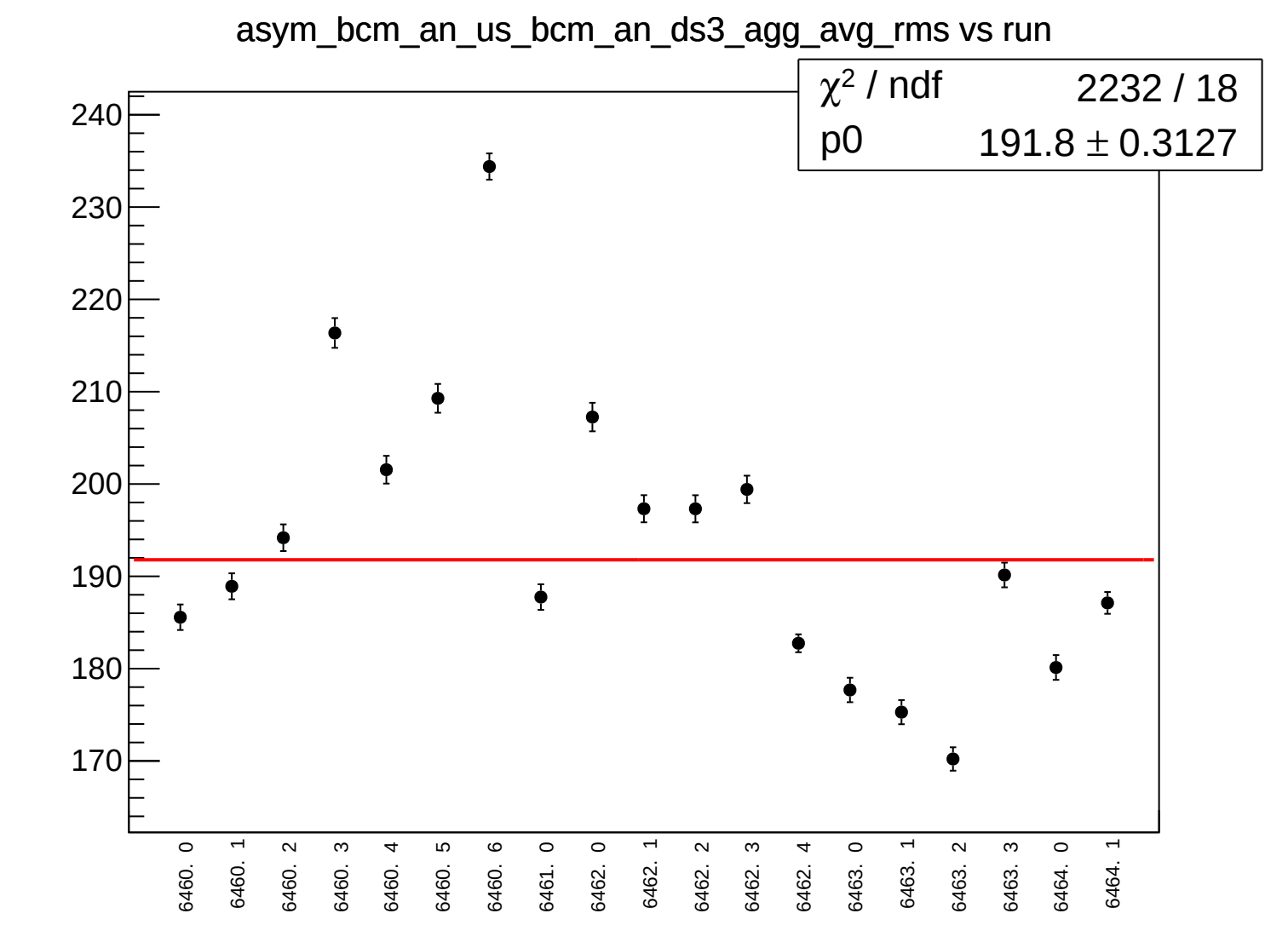

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2235 / 18
p0 191.3 ± 0.312
240
230
220
210
200
190
180
170
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

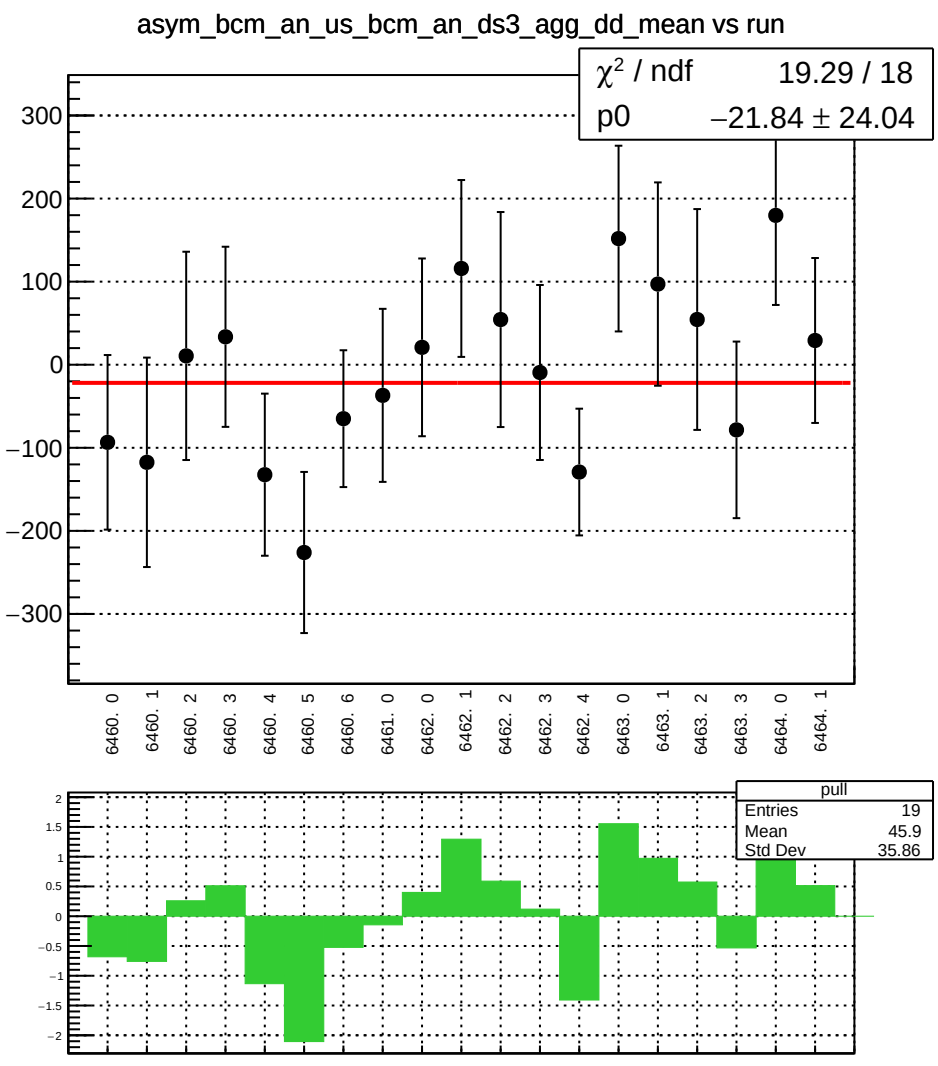

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 22.46 / 18
p0 −38.9 ± 25.23
300
200
100
0
−100
−200
−300
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 35.82
Std Dev 25.32
1.5
1
0.5
0
−0.5
−1
−1.5
−2

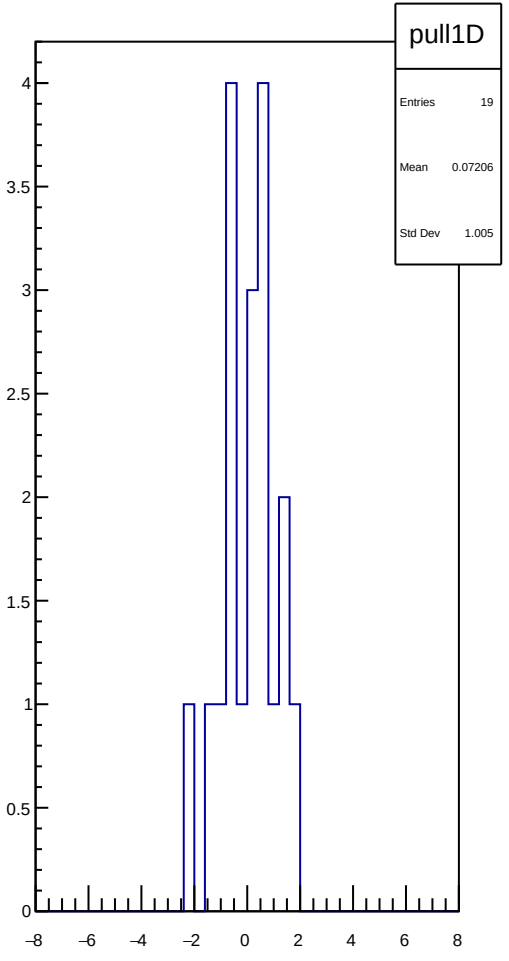

pull1D
Entries 19
Mean 0.09292
Std Dev 1.083
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

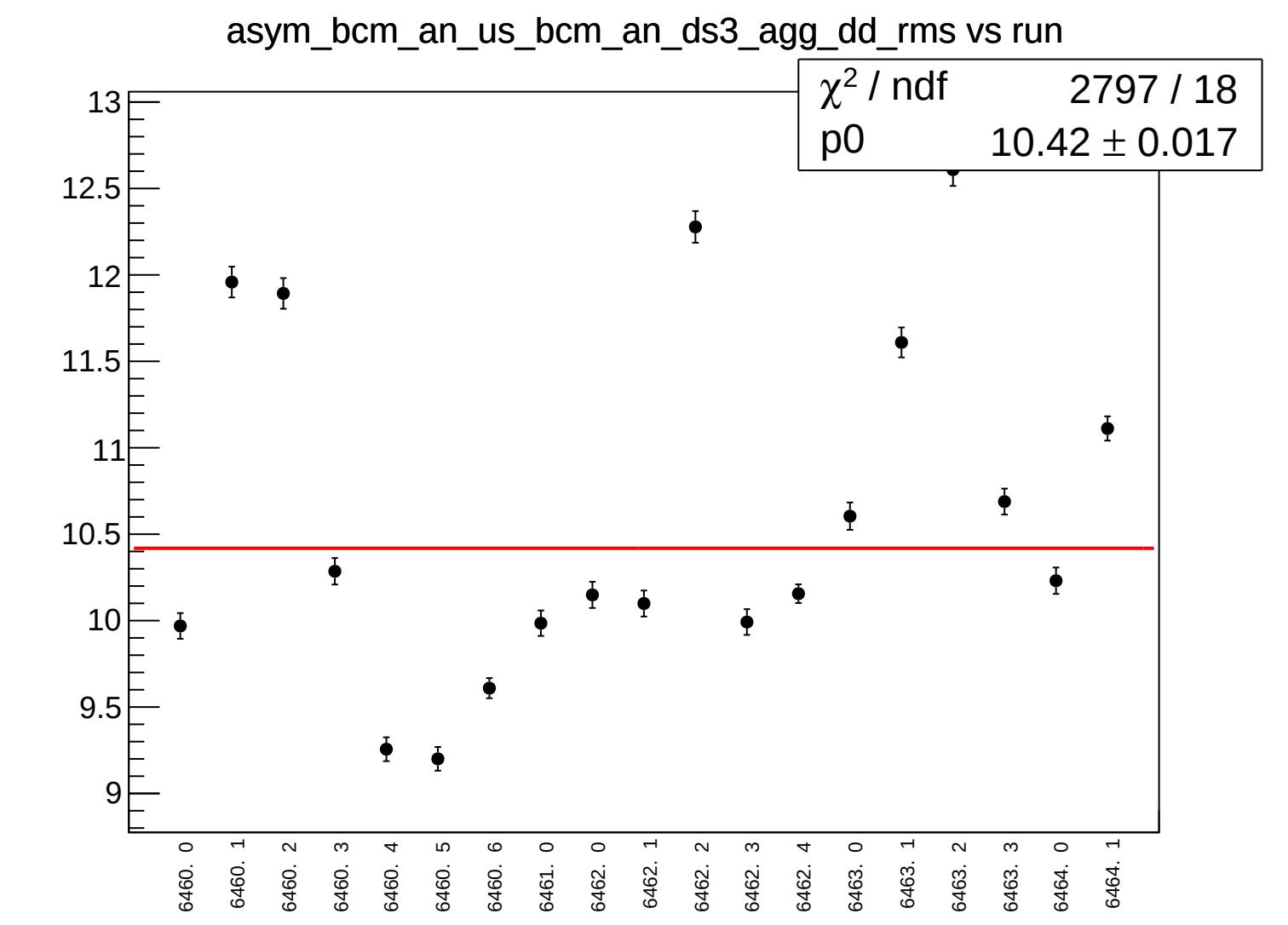

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2394 / 18
p0 10.94 ± 0.01784
13
12.5
12
11.5
11
10.5
10
9.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

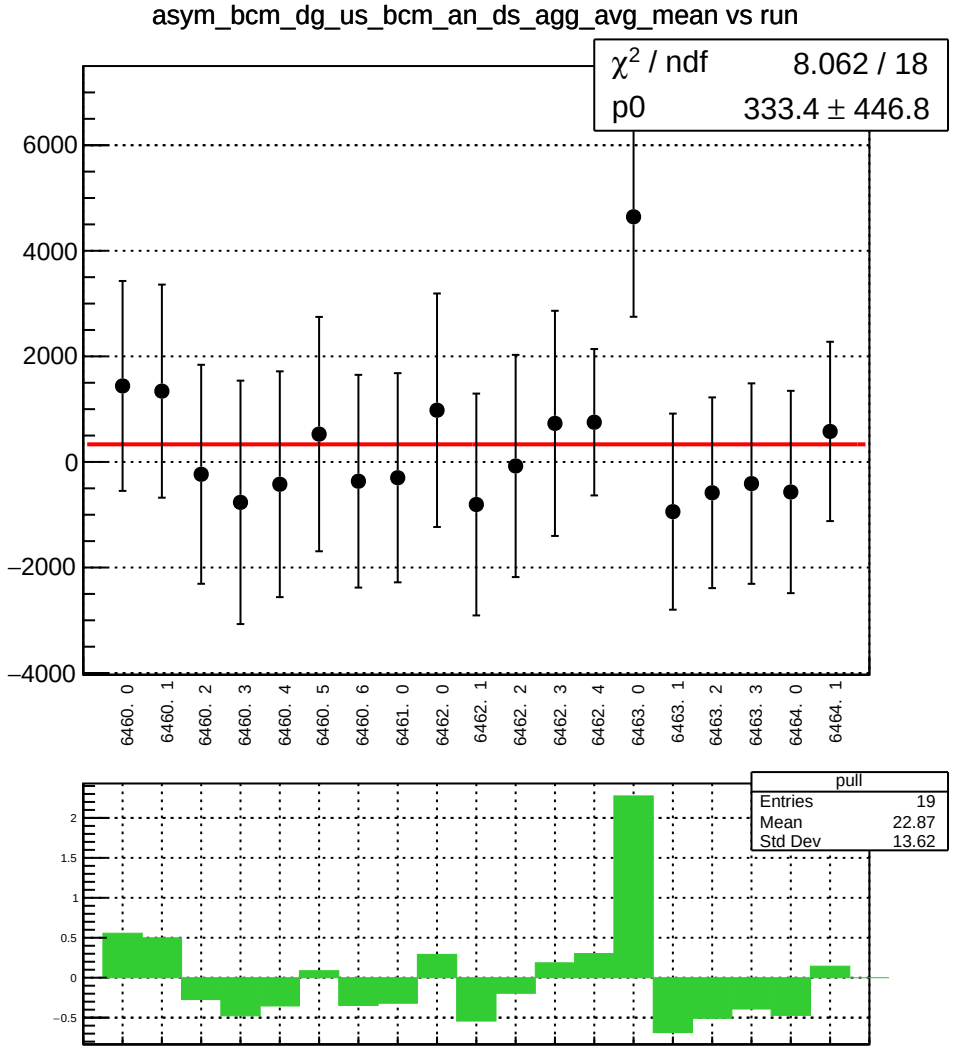

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 7.211 / 18
p0 331.9 ± 442.3
6000
4000
2000
0
−2000
−4000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 11.55
Std Dev 4.908
2
1.5
1
0.5
0
−0.5
pull1D
Entries 19
Mean −0.01246
Std Dev 0.6159
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

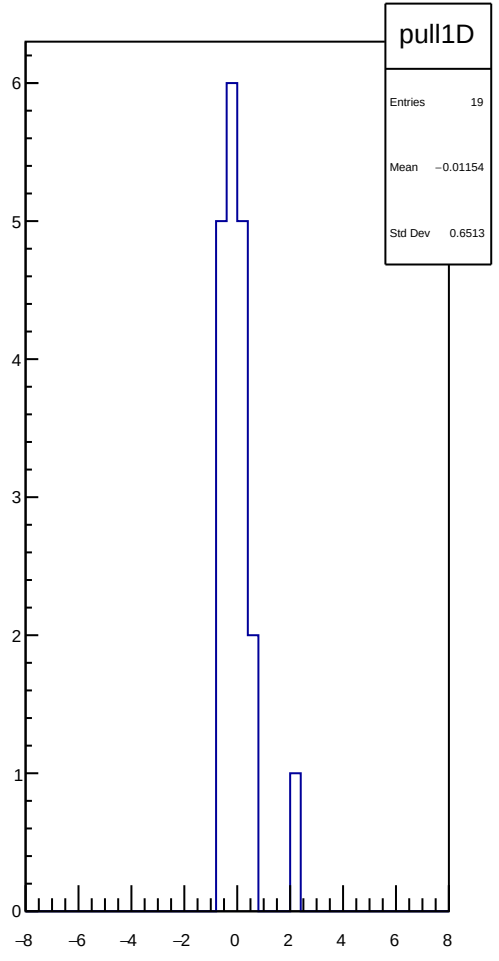

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 2232 / 18
p0 191.8 ± 0.3127
240
230
220
210
200
190
180
170
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

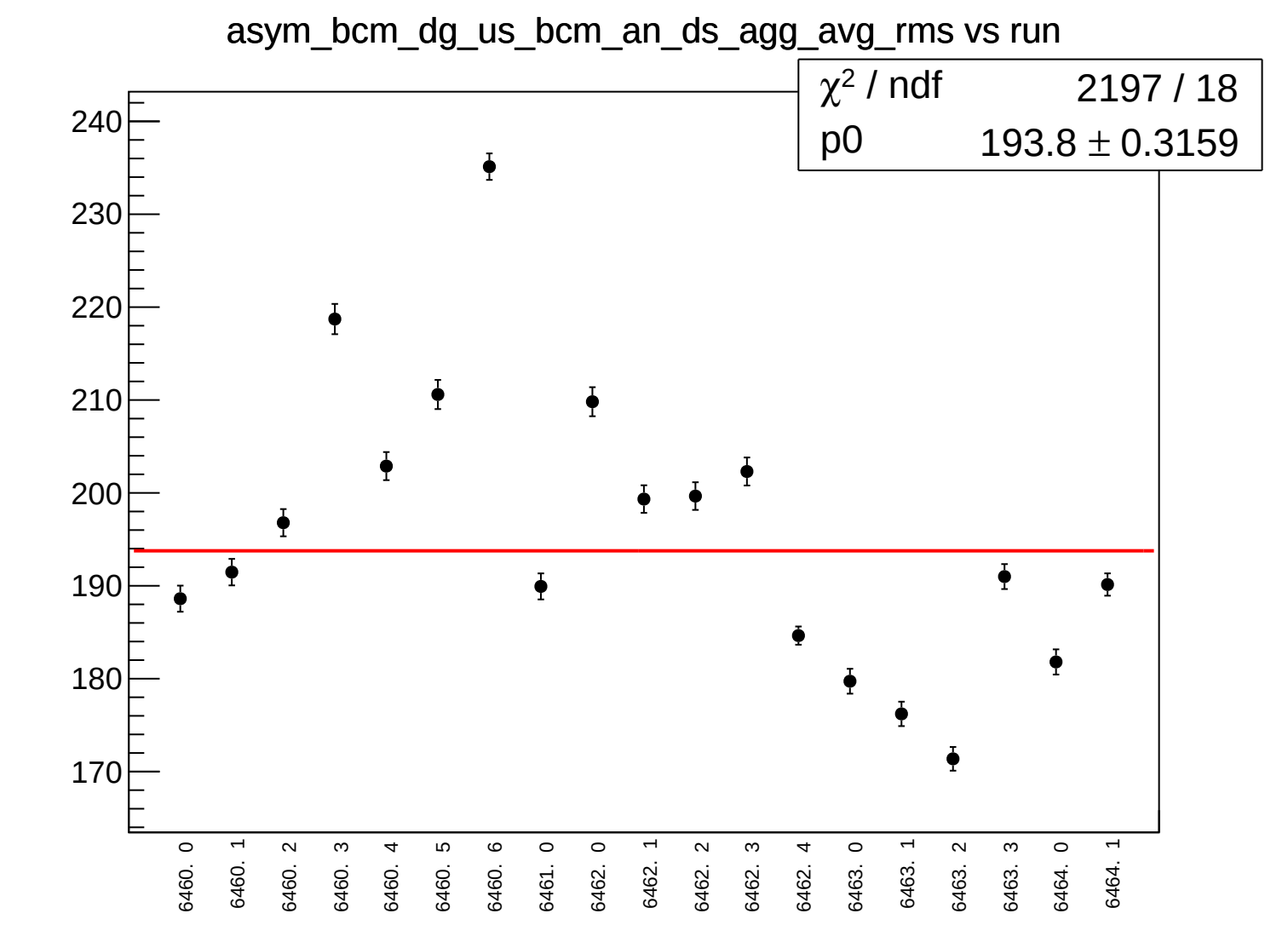

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 19.29 / 18
p0 −21.84 ± 24.04
300
200
100
0
−100
−200
−300
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 45.9
Std Dev 35.86
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

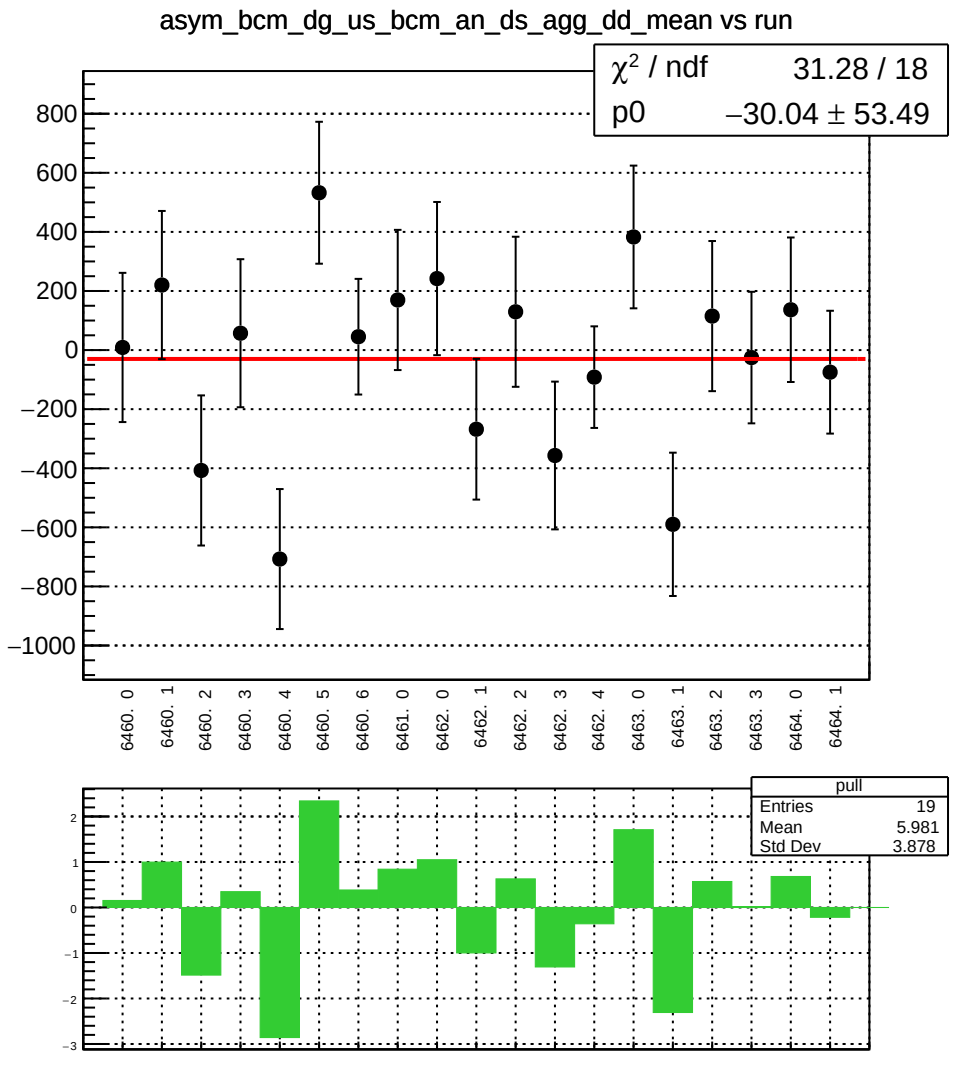

pull1D
Entries 19
Mean 0.07206
Std Dev 1.005
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

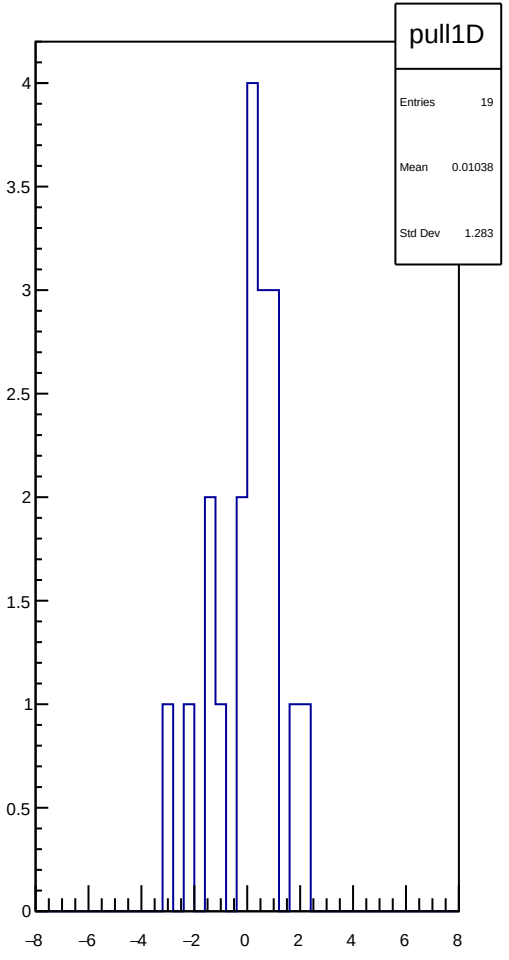

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 2797 / 18
p0 10.42 ± 0.017
13
12.5
12
11.5
11
10.5
10
9.5
9
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

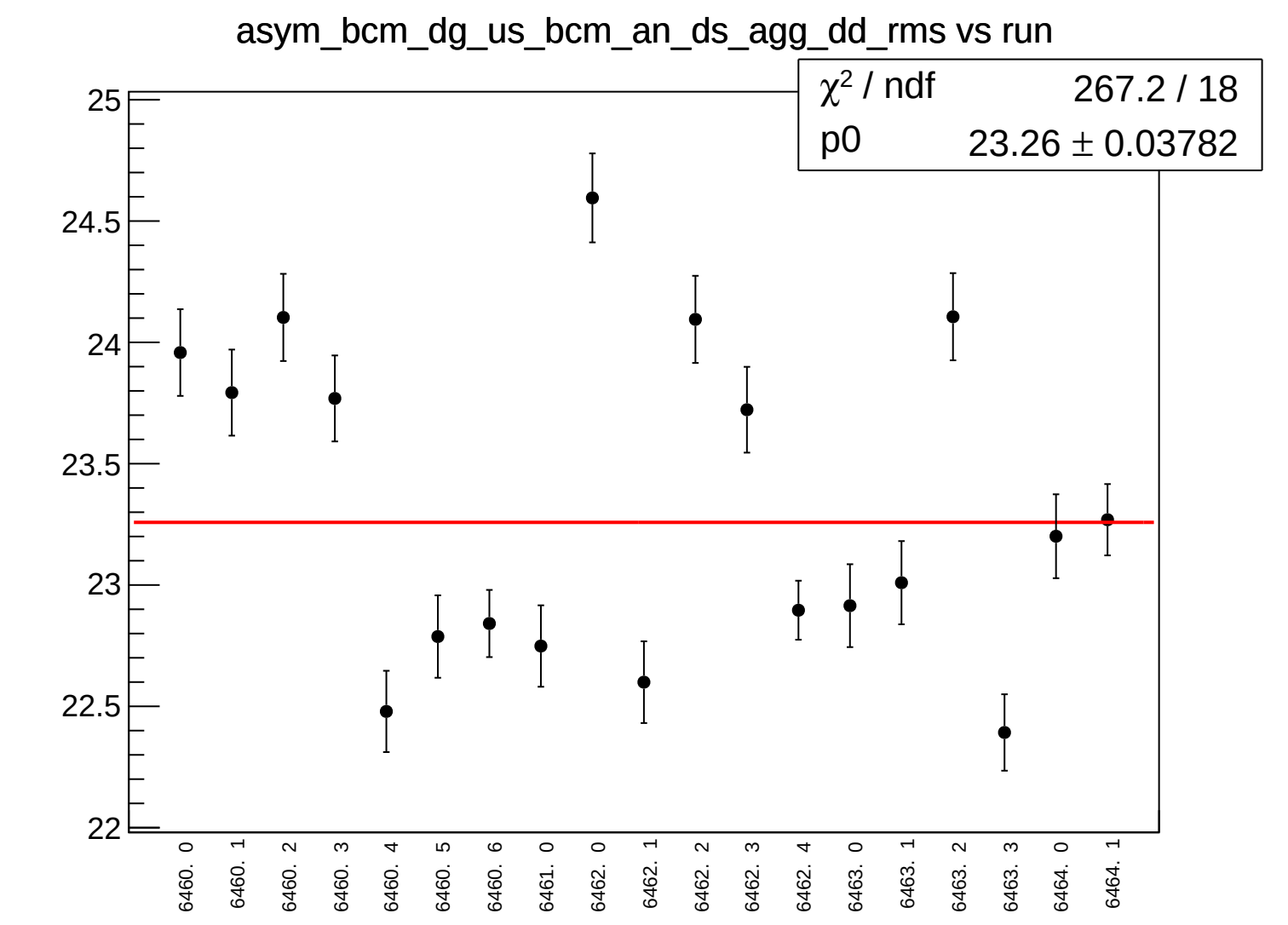

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 8.062 / 18
p0 333.4 ± 446.8
6000
4000
2000
0
−2000
−4000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 22.87
Std Dev 13.62
2
1.5
1
0.5
0
−0.5

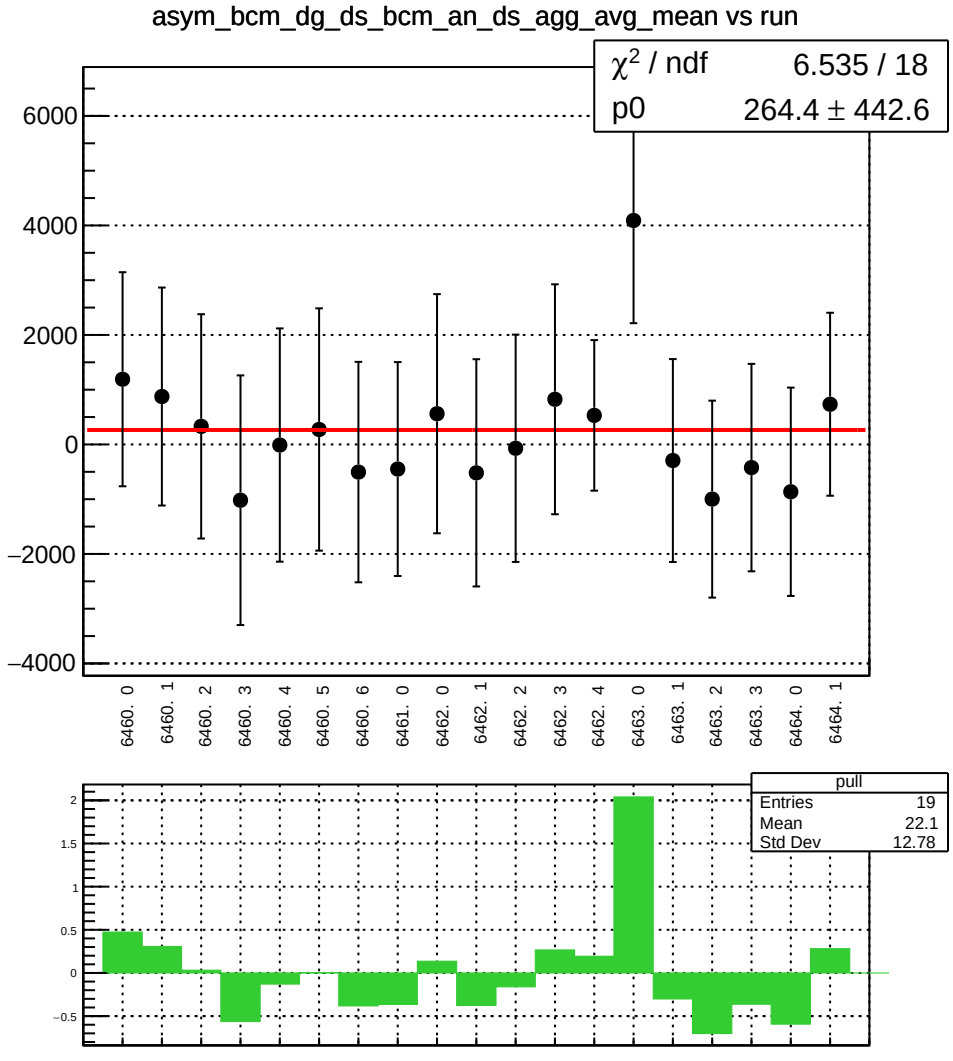

pull1D
Entries 19
Mean −0.01154
Std Dev 0.6513
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

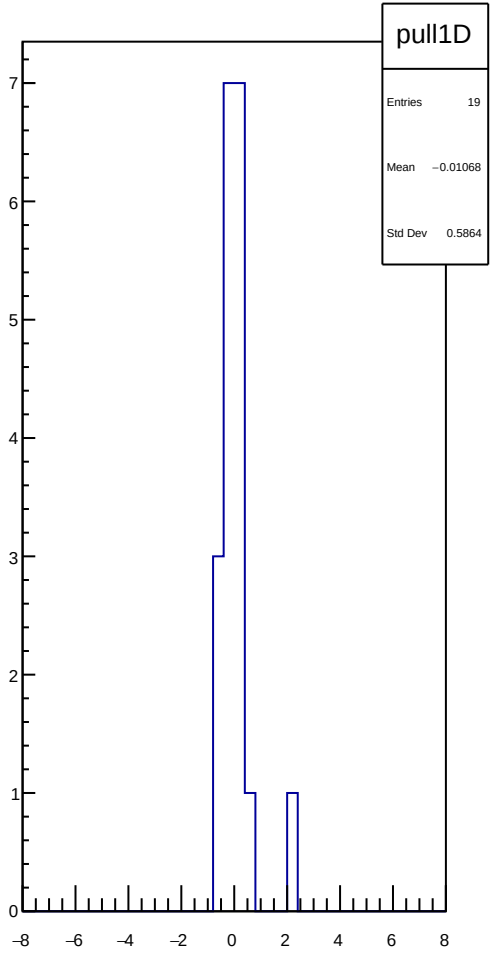

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2197 / 18
p0 193.8 ± 0.3159
240
230
220
210
200
190
180
170
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

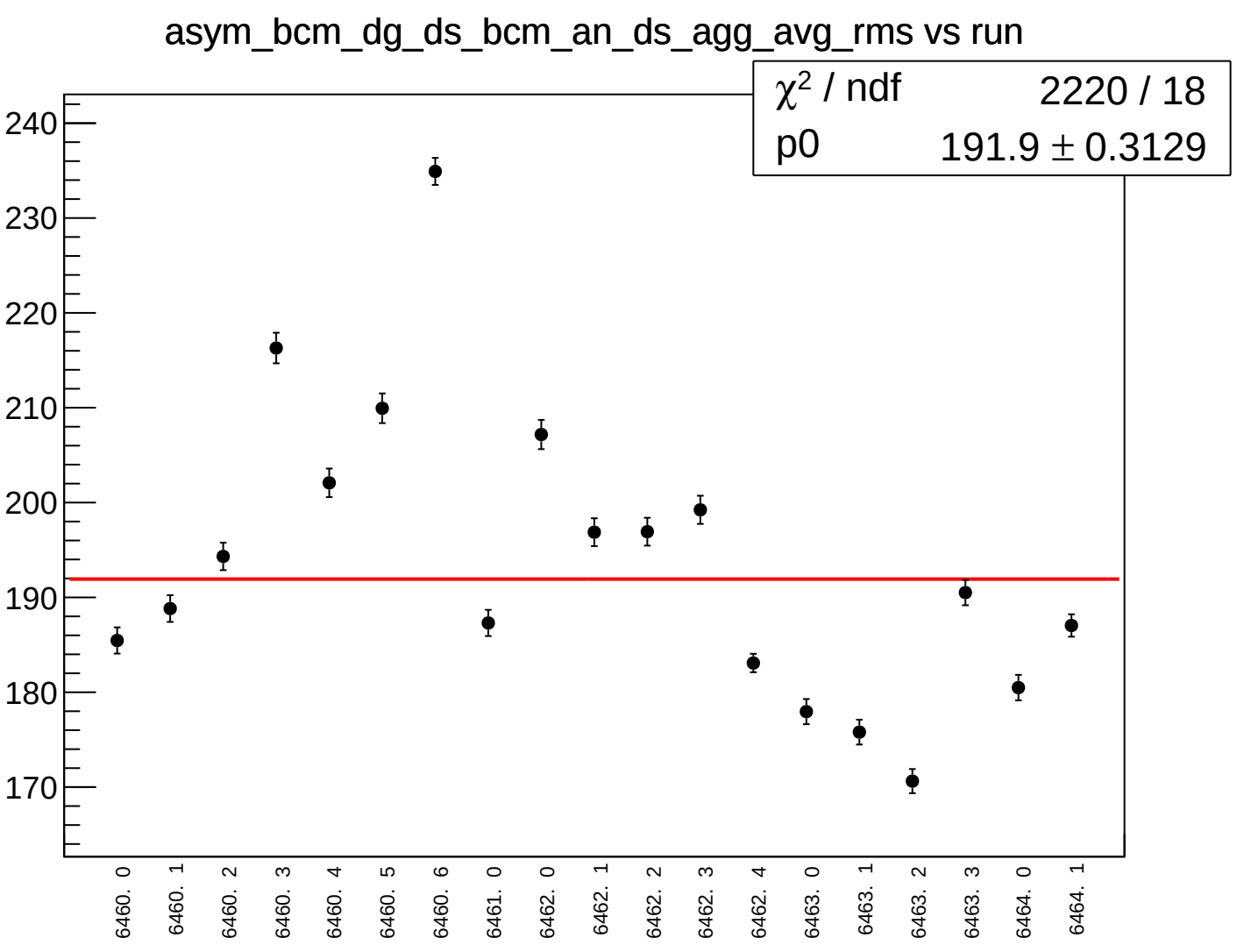

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 31.28 / 18
p0 −30.04 ± 53.49
800
600
400
200
0
−200
−400
−600
−800
−1000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 5.981
Std Dev 3.878
2
1
0
−1
−2
−3

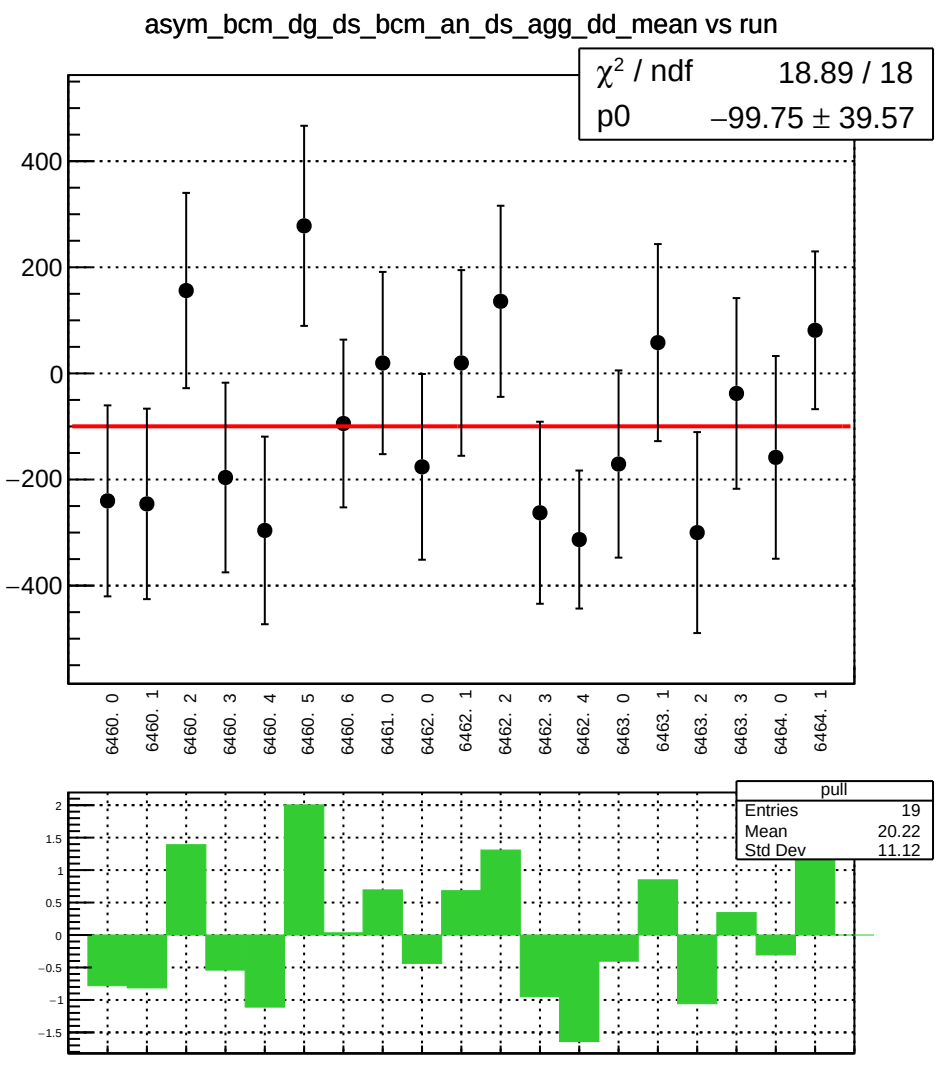

pull1D
Entries 19
Mean 0.01038
Std Dev 1.283
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

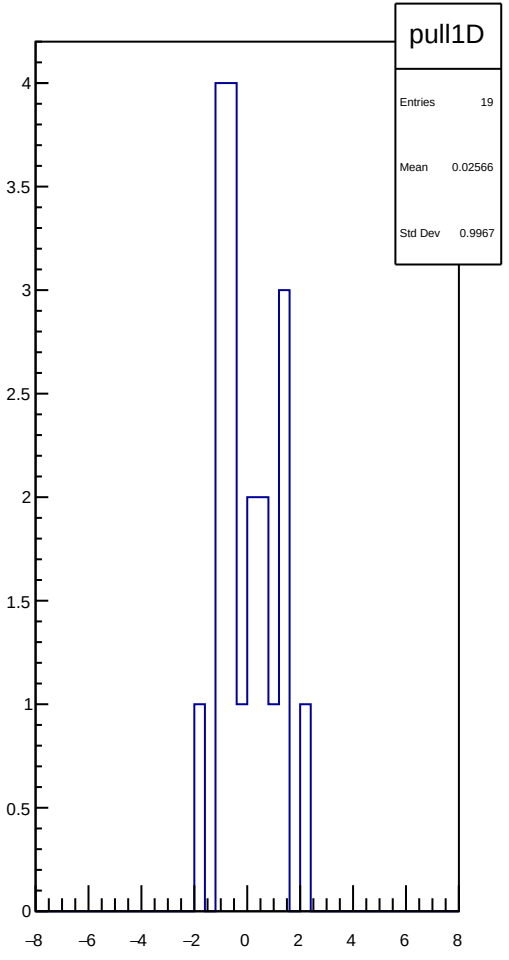

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 267.2 / 18
p0 23.26 ± 0.03782
25
24.5
24
23.5
23
22.5
22
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

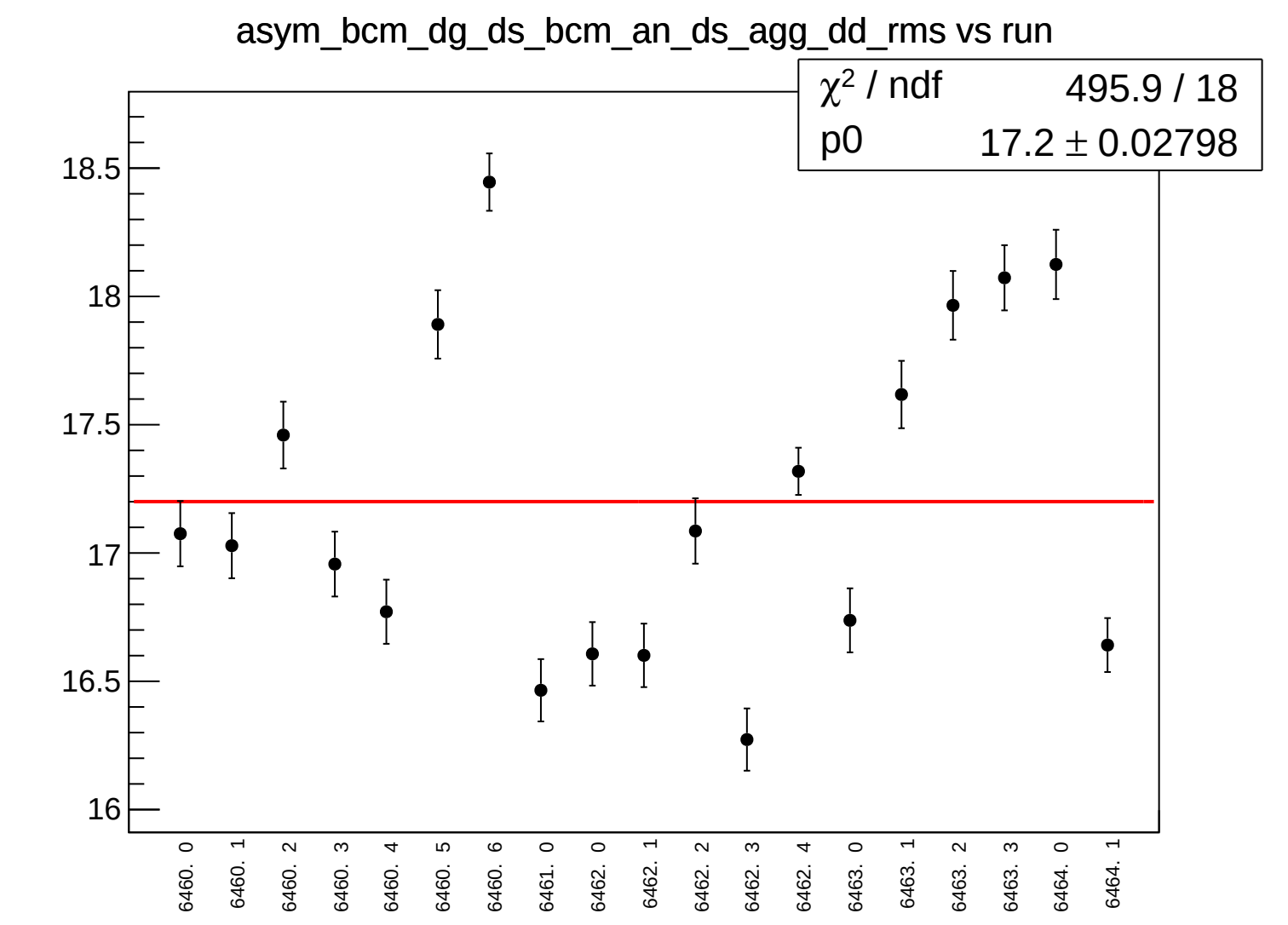

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 6.535 / 18
p0 264.4 ± 442.6
6000
4000
2000
0
−2000
−4000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 22.1
Std Dev 12.78
2
1.5
1
0.5
0
−0.5

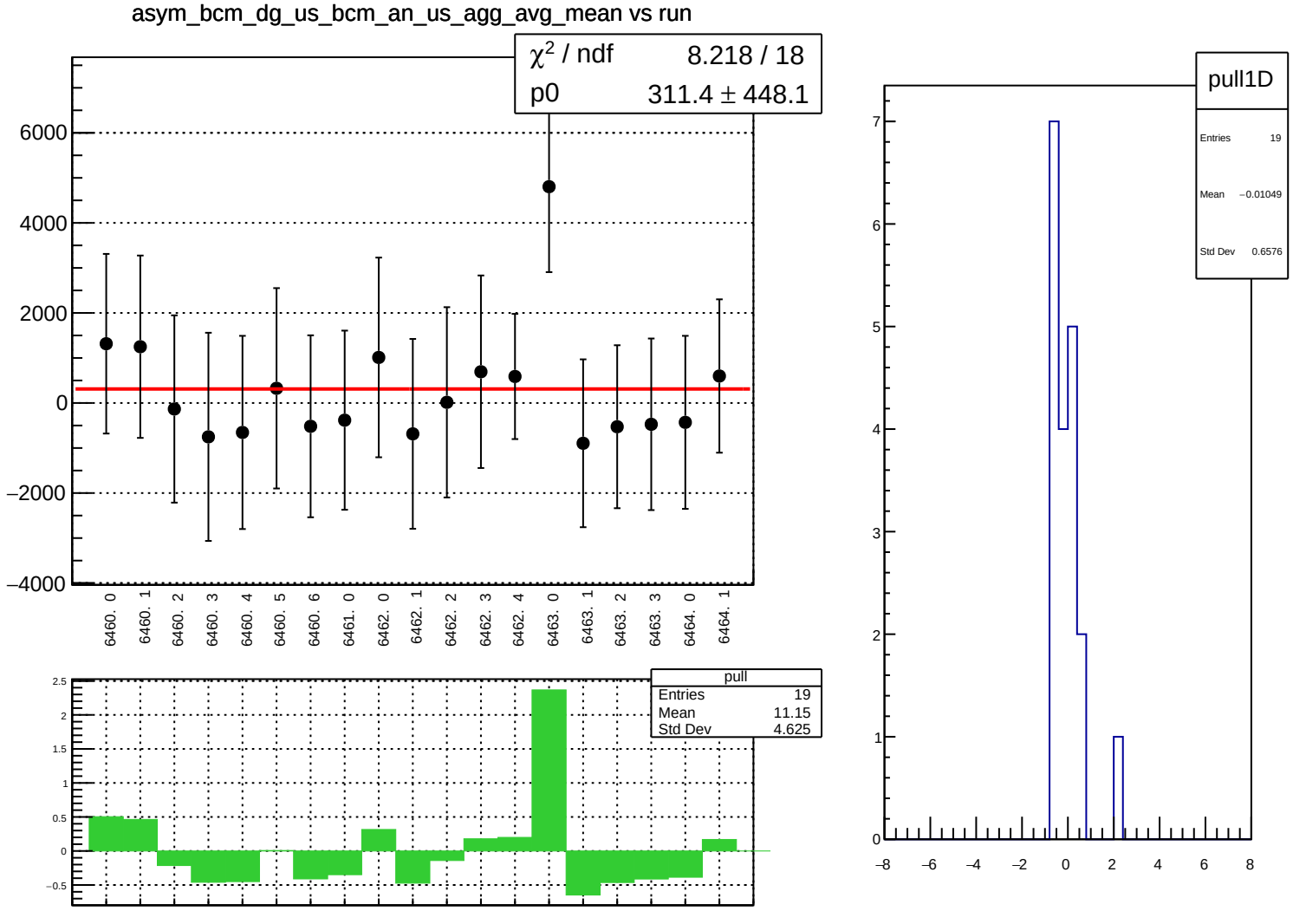

pull1D
Entries 19
Mean −0.01068
Std Dev 0.5864
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

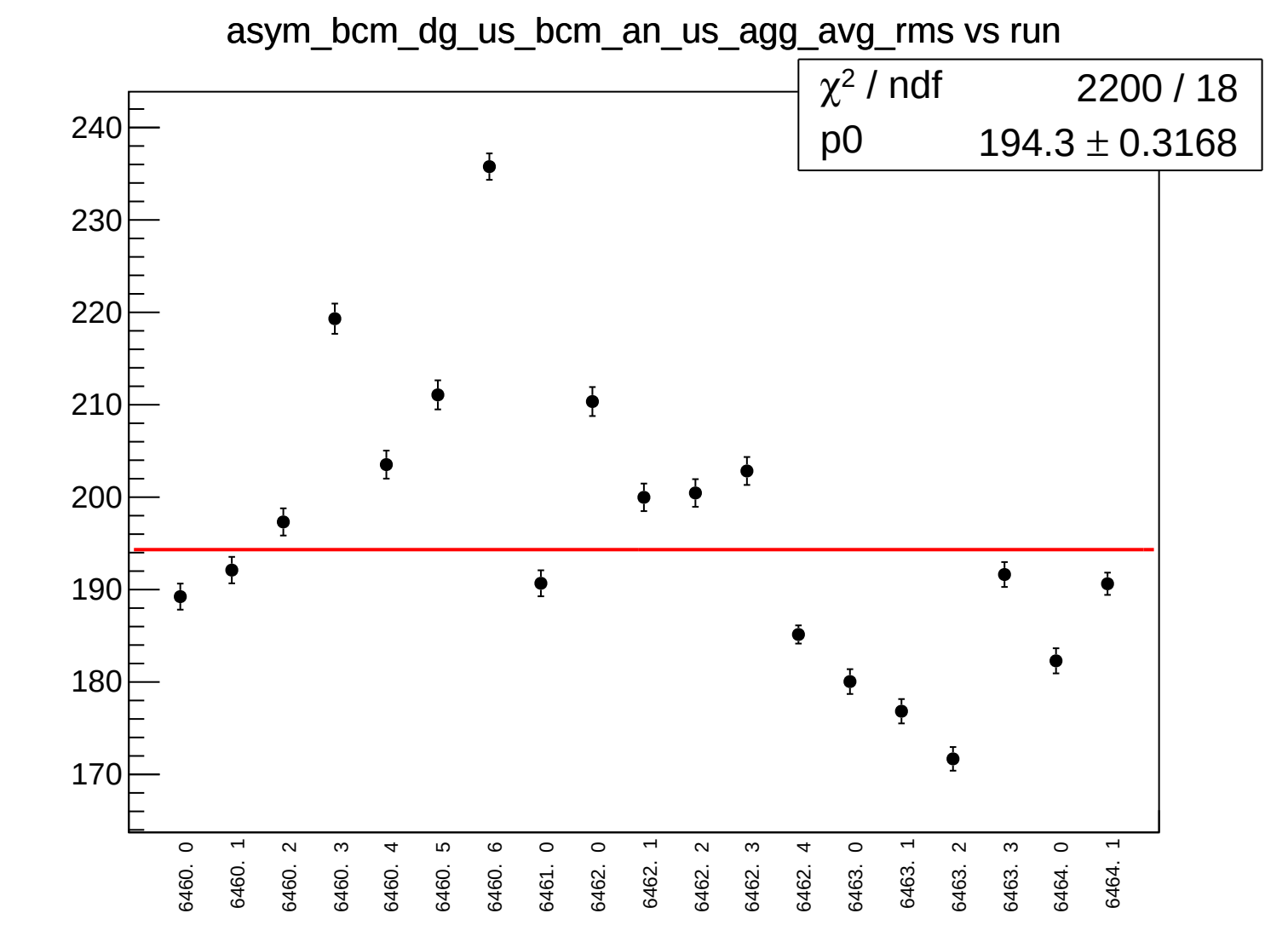

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2220 / 18
p0 191.9 ± 0.3129
240
230
220
210
200
190
180
170
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

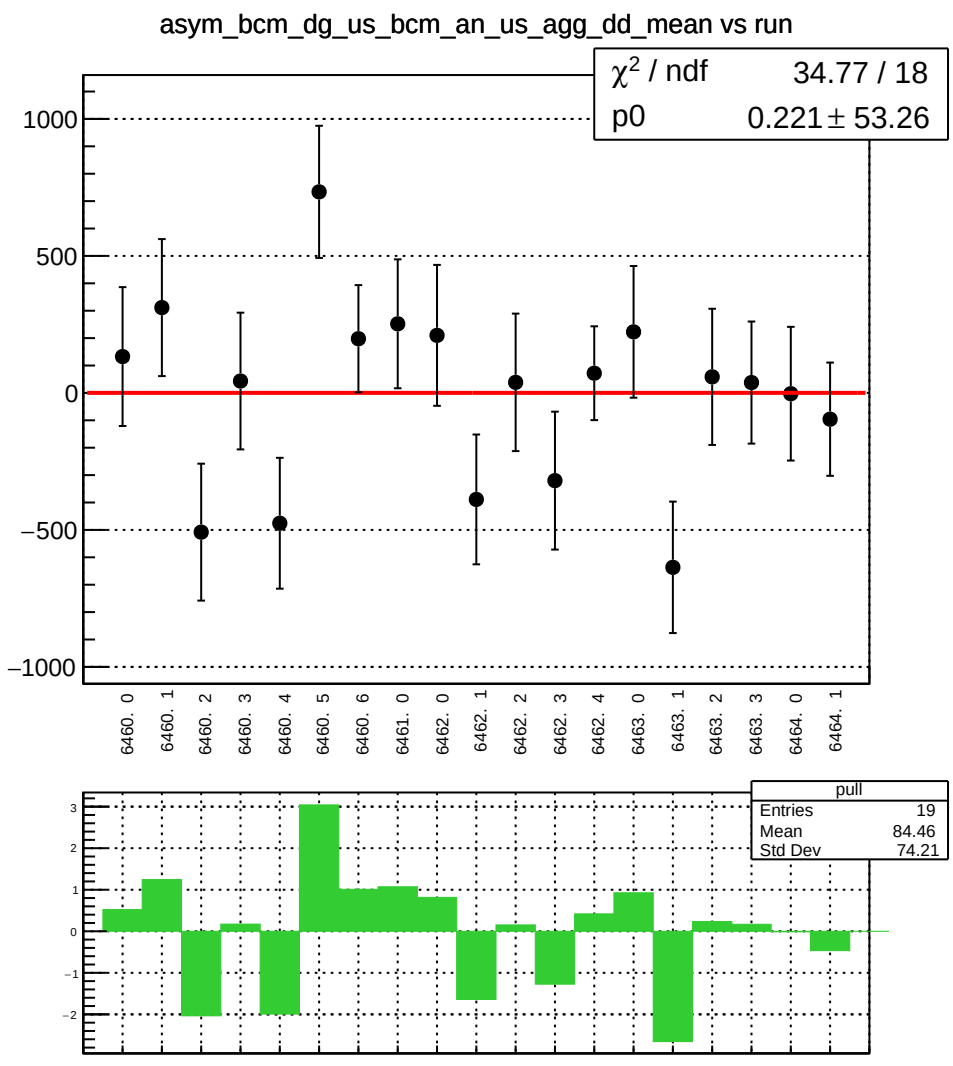

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 18.89 / 18
p0 −99.75 ± 39.57
400
200
0
−200
−400
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 20.22
Std Dev 11.12
2
1.5
1
0.5
0
−0.5
−1
−1.5

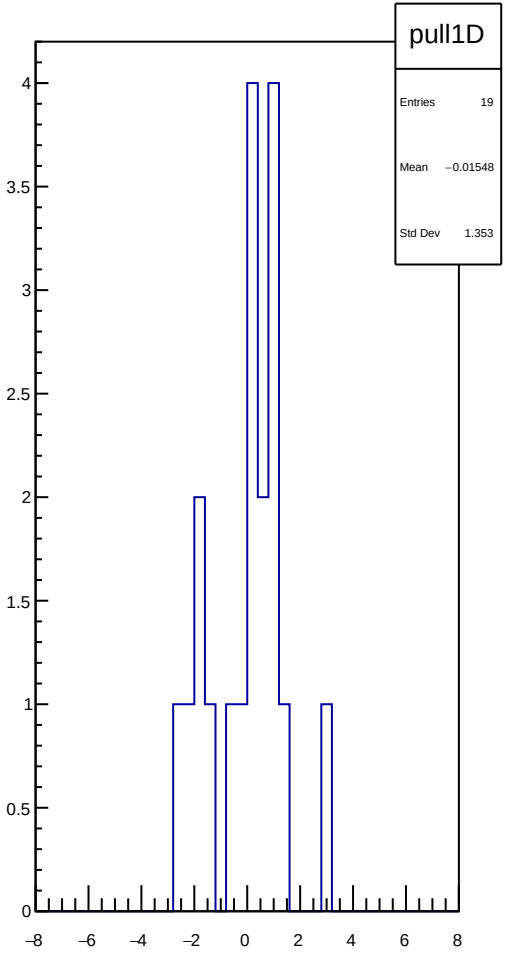

pull1D
Entries 19
Mean 0.02566
Std Dev 0.9967
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

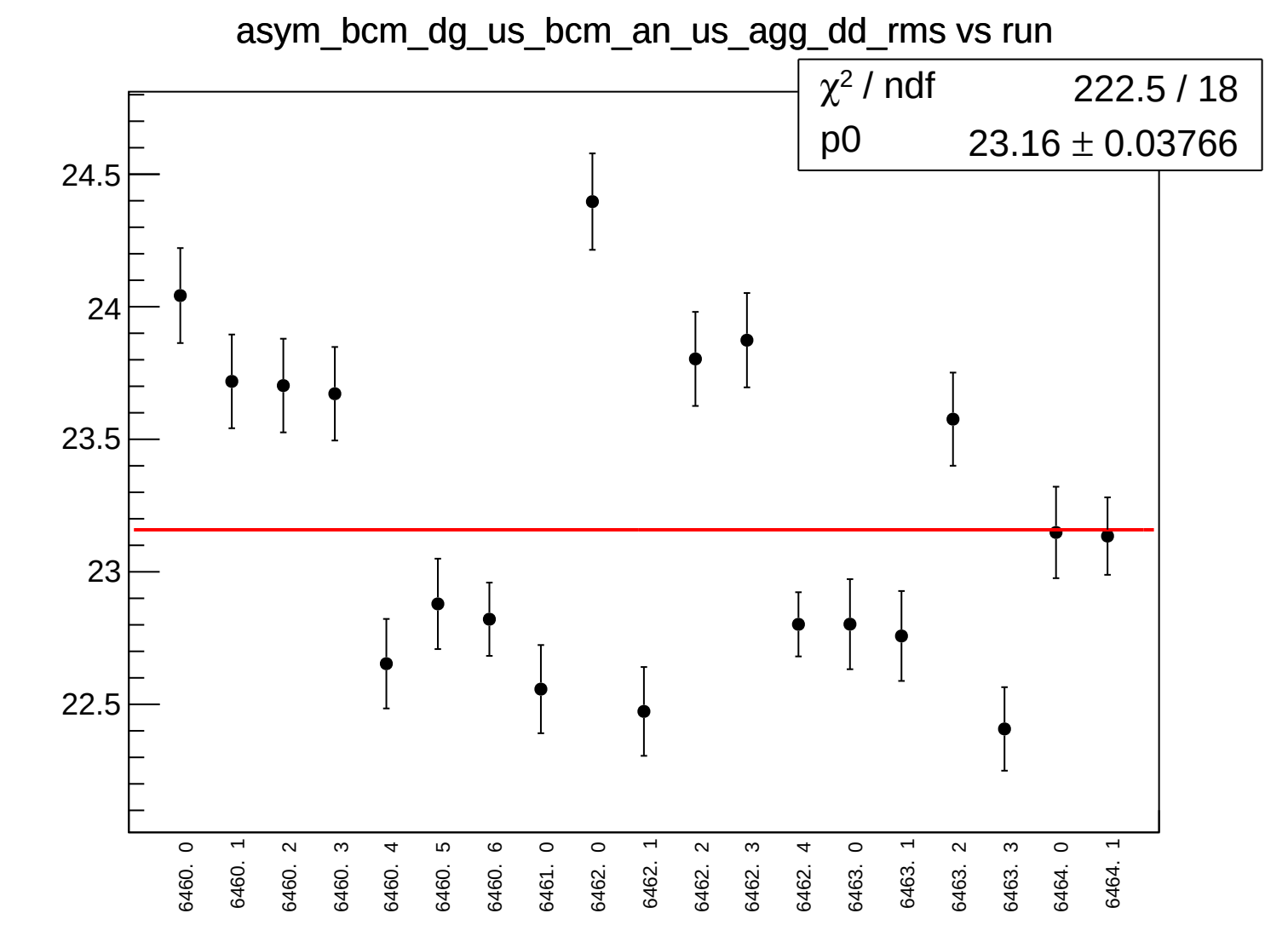

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 495.9 / 18
p0 17.2 ± 0.02798
18.5
18
17.5
17
16.5
16
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

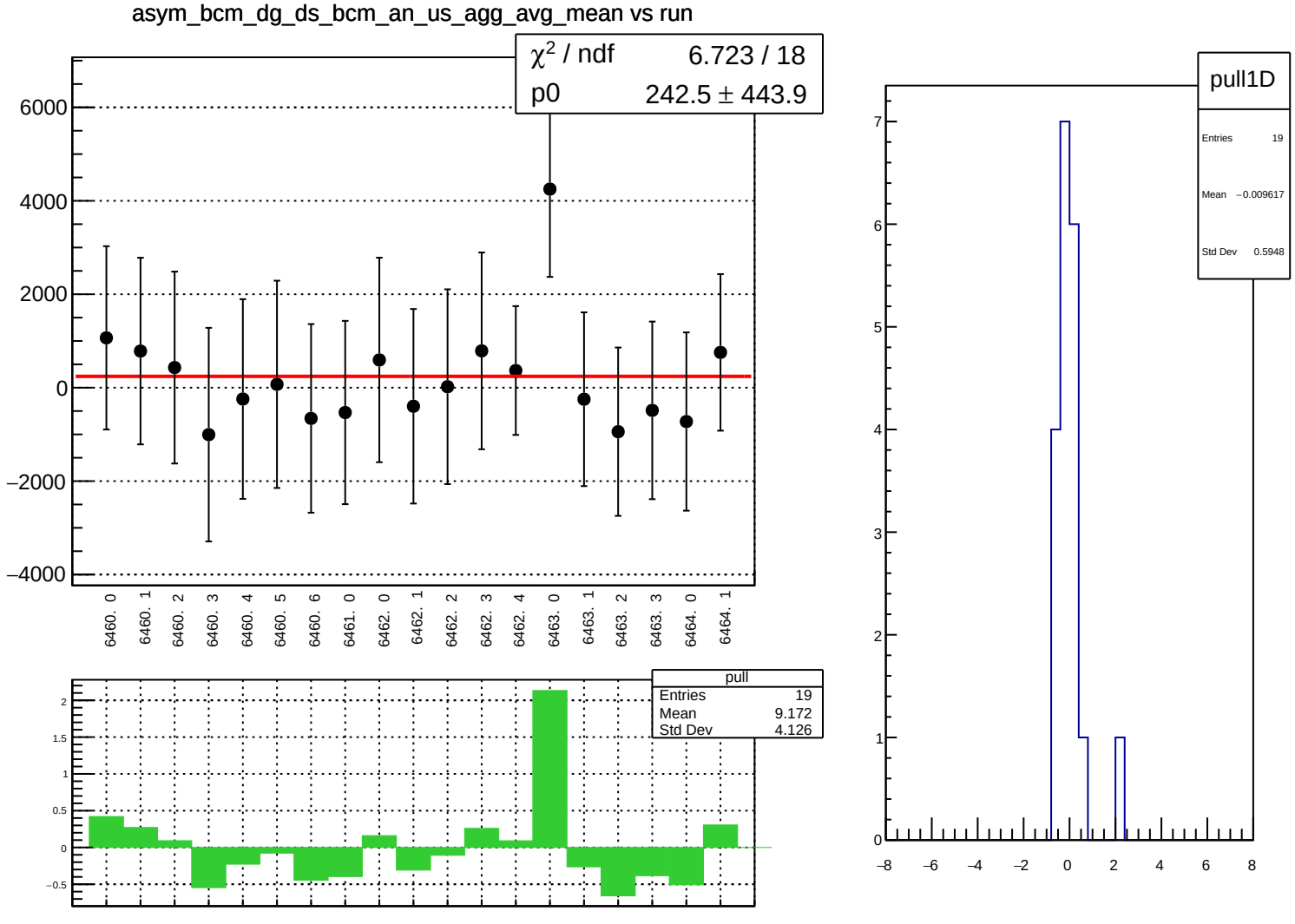

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 8.218 / 18
p0 311.4 ± 448.1
6000
4000
2000
0
−2000
−4000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 11.15
Std Dev 4.625
2.5
2
1.5
1
0.5
0
−0.5
pull1D
Entries 19
Mean −0.01049
Std Dev 0.6576
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

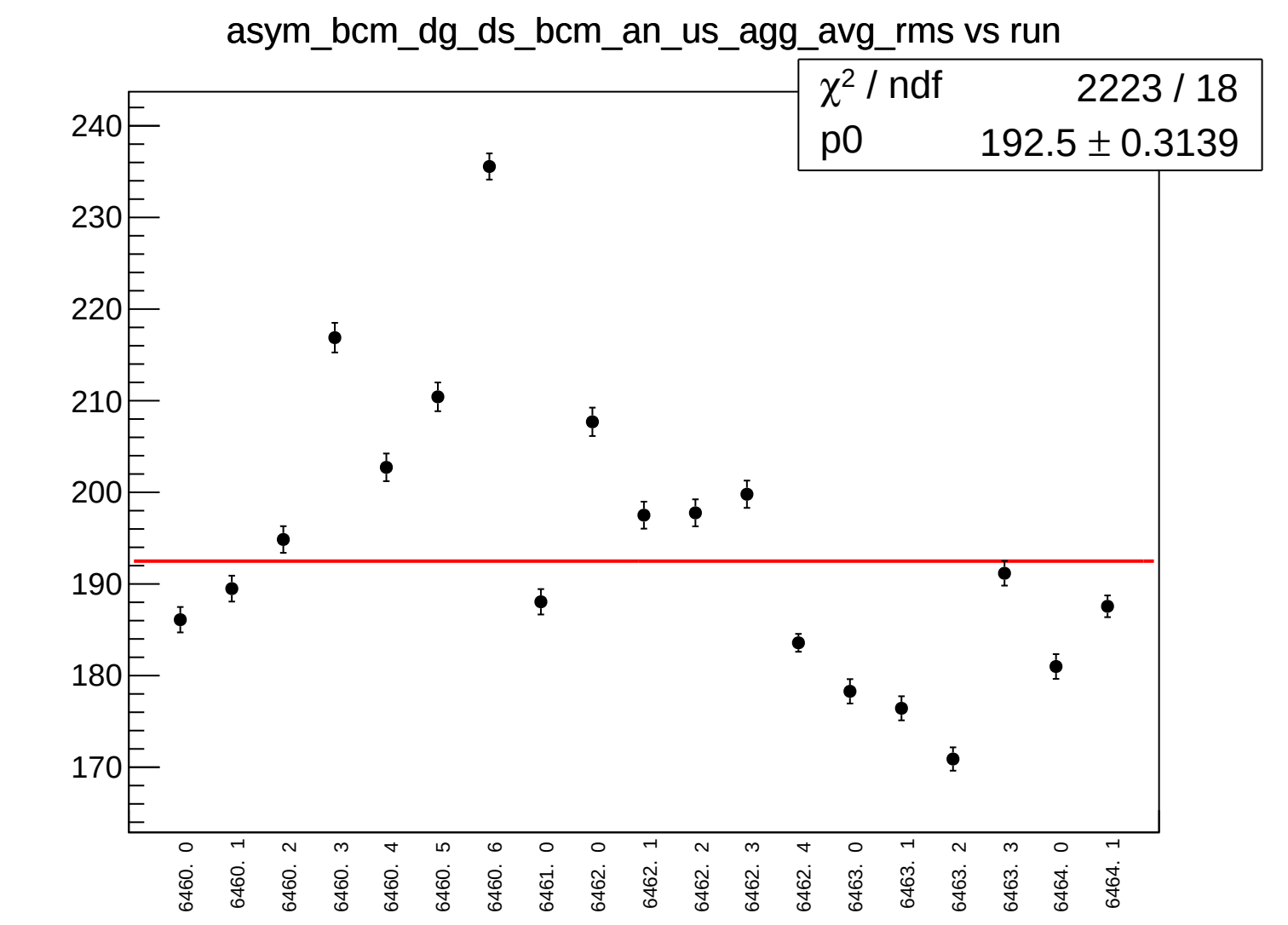

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 2200 / 18
p0 194.3 ± 0.3168
240
230
220
210
200
190
180
170
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

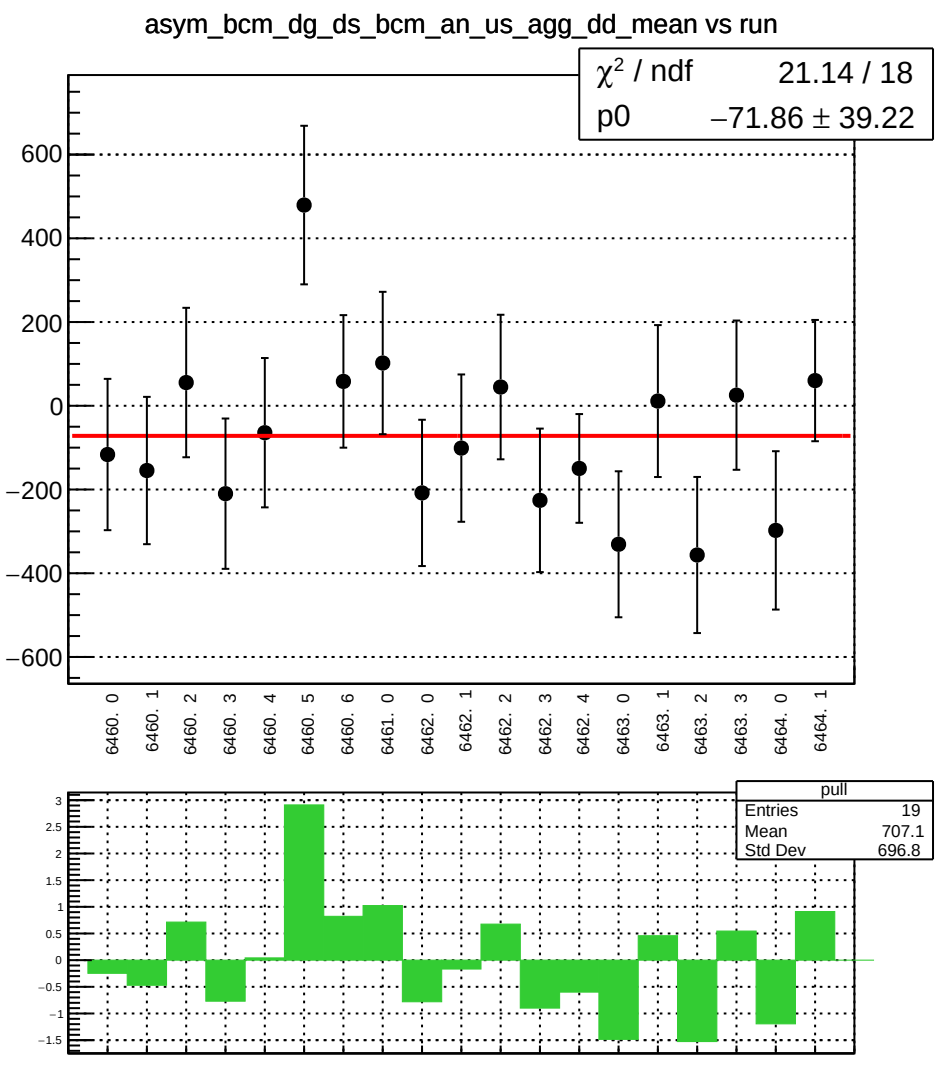

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 34.77 / 18
p0 0.221 ± 53.26
1000
500
0
−500
−1000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 84.46
Std Dev 74.21
3
2
1
0
−1
−2

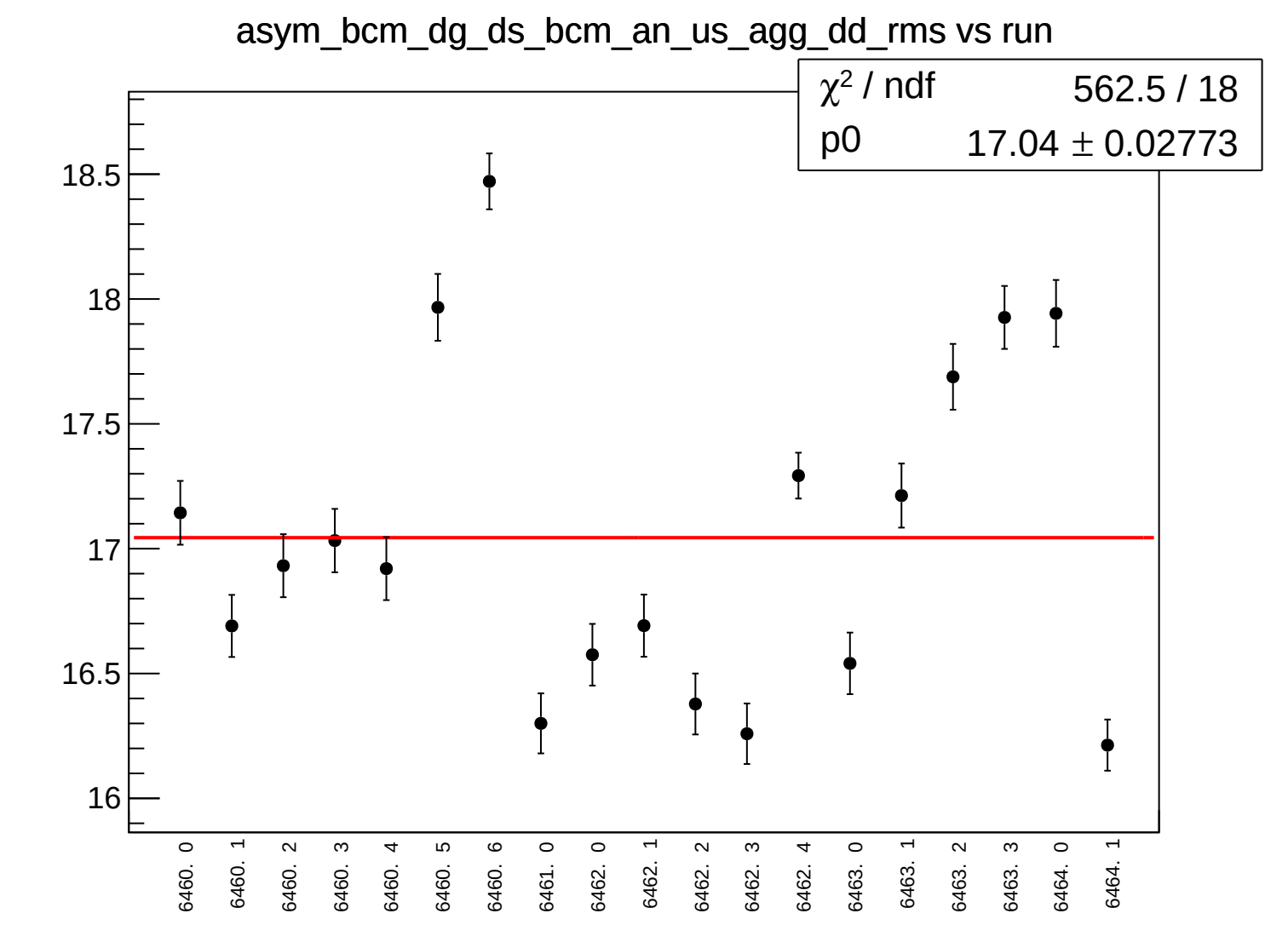

pull1D
Entries 19
Mean −0.01548
Std Dev 1.353
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

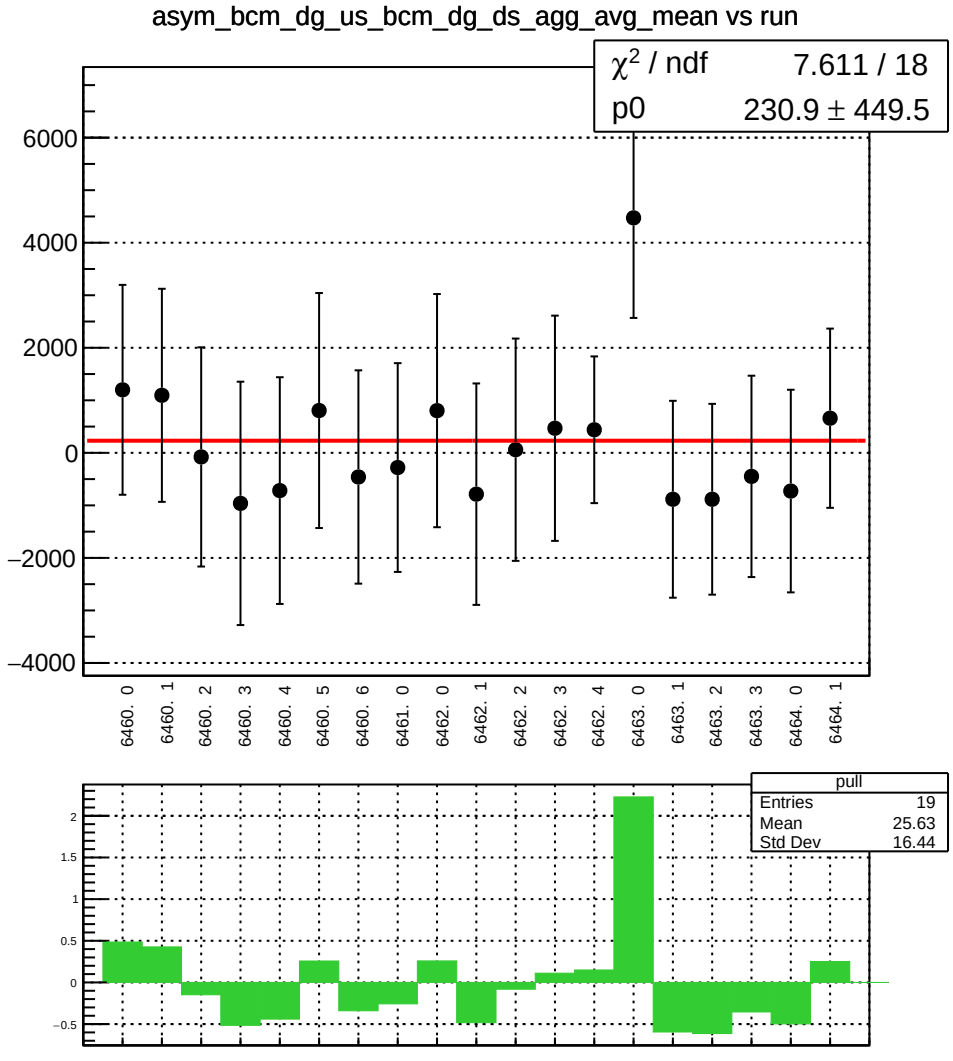

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 222.5 / 18
p0 23.16 ± 0.03766
24.5
24
23.5
23
22.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

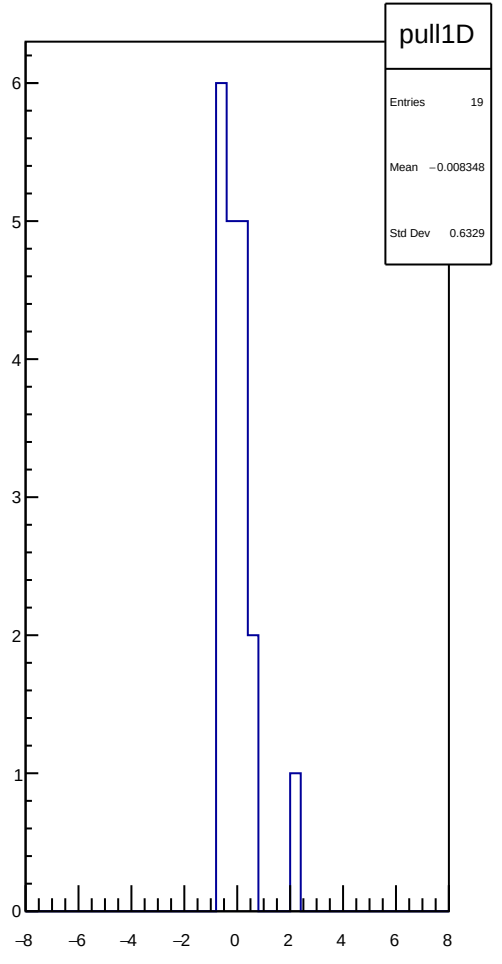

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 6.723 / 18
p0 242.5 ± 443.9
6000
4000
2000
0
−2000
−4000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 9.172
Std Dev 4.126
2
1.5
1
0.5
0
−0.5
pull1D
Entries 19
Mean −0.009617
Std Dev 0.5948
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

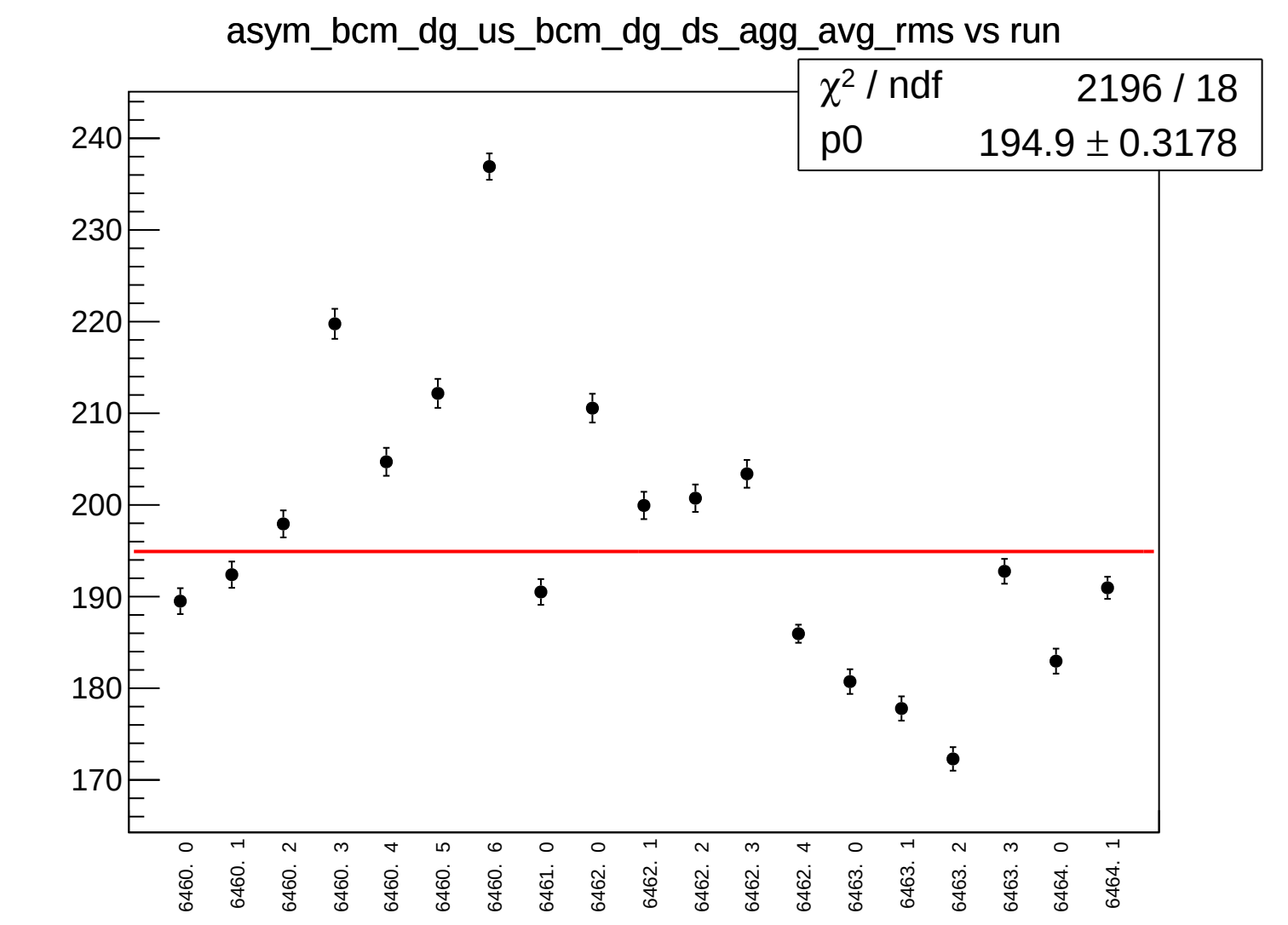

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 2223 / 18
p0 192.5 ± 0.3139
240
230
220
210
200
190
180
170
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

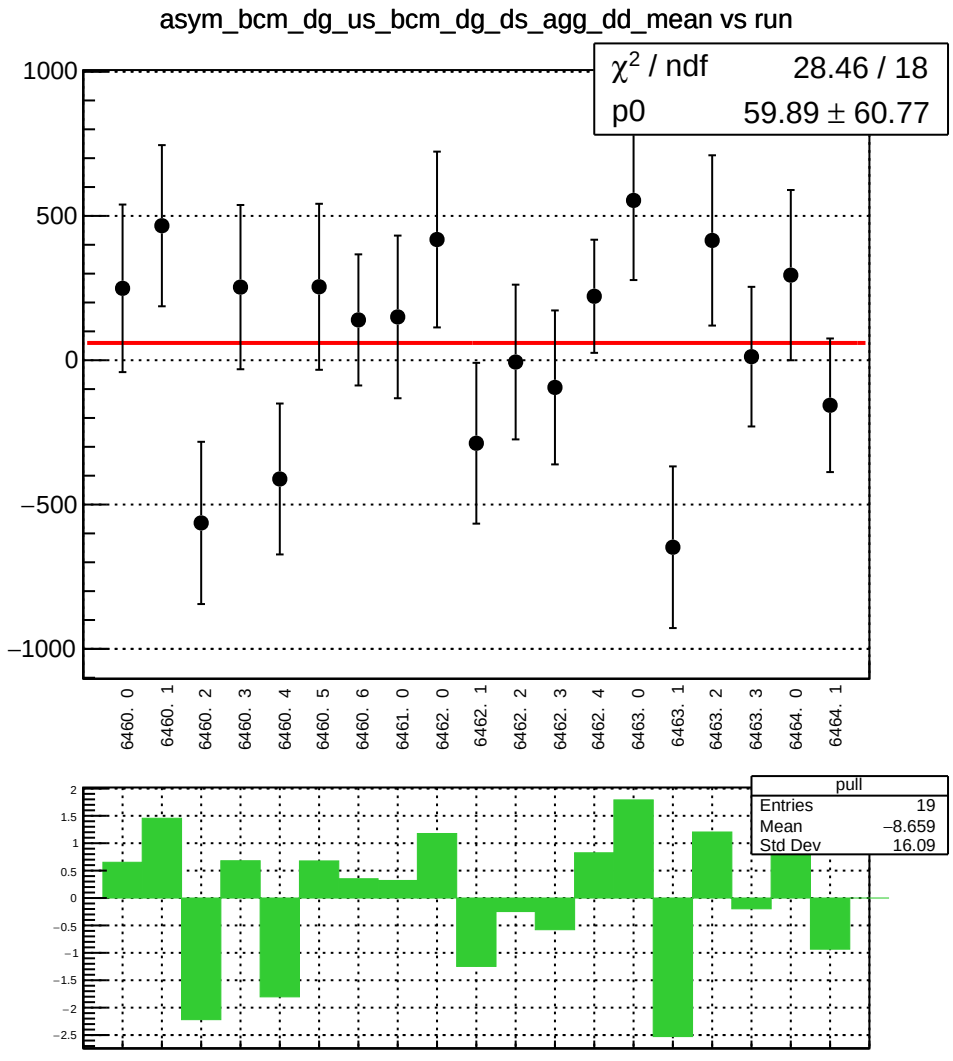

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 21.14 / 18
p0 −71.86 ± 39.22
600
400
200
0
−200
−400
−600
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 707.1
Std Dev 696.8
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 19
Mean −0.001753
Std Dev 1.055
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

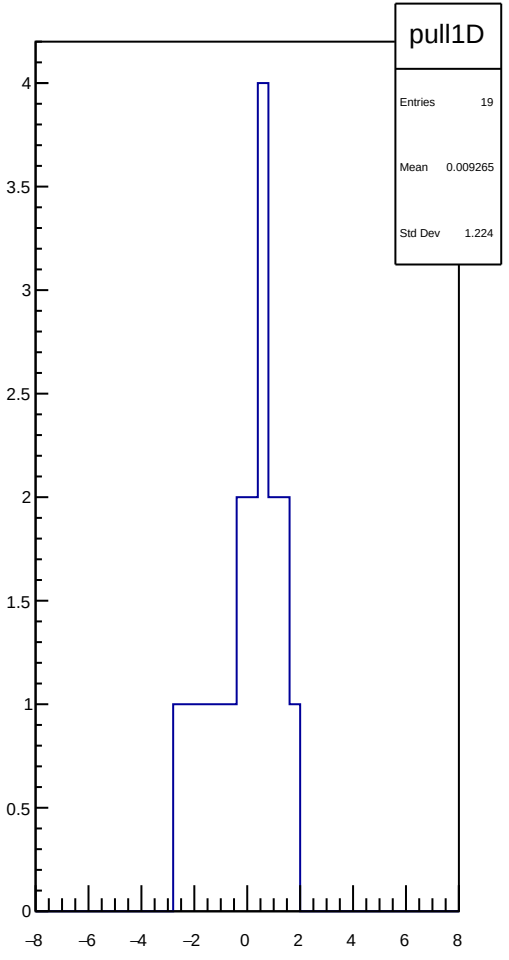

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 562.5 / 18
p0 17.04 ± 0.02773
18.5
18
17.5
17
16.5
16
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

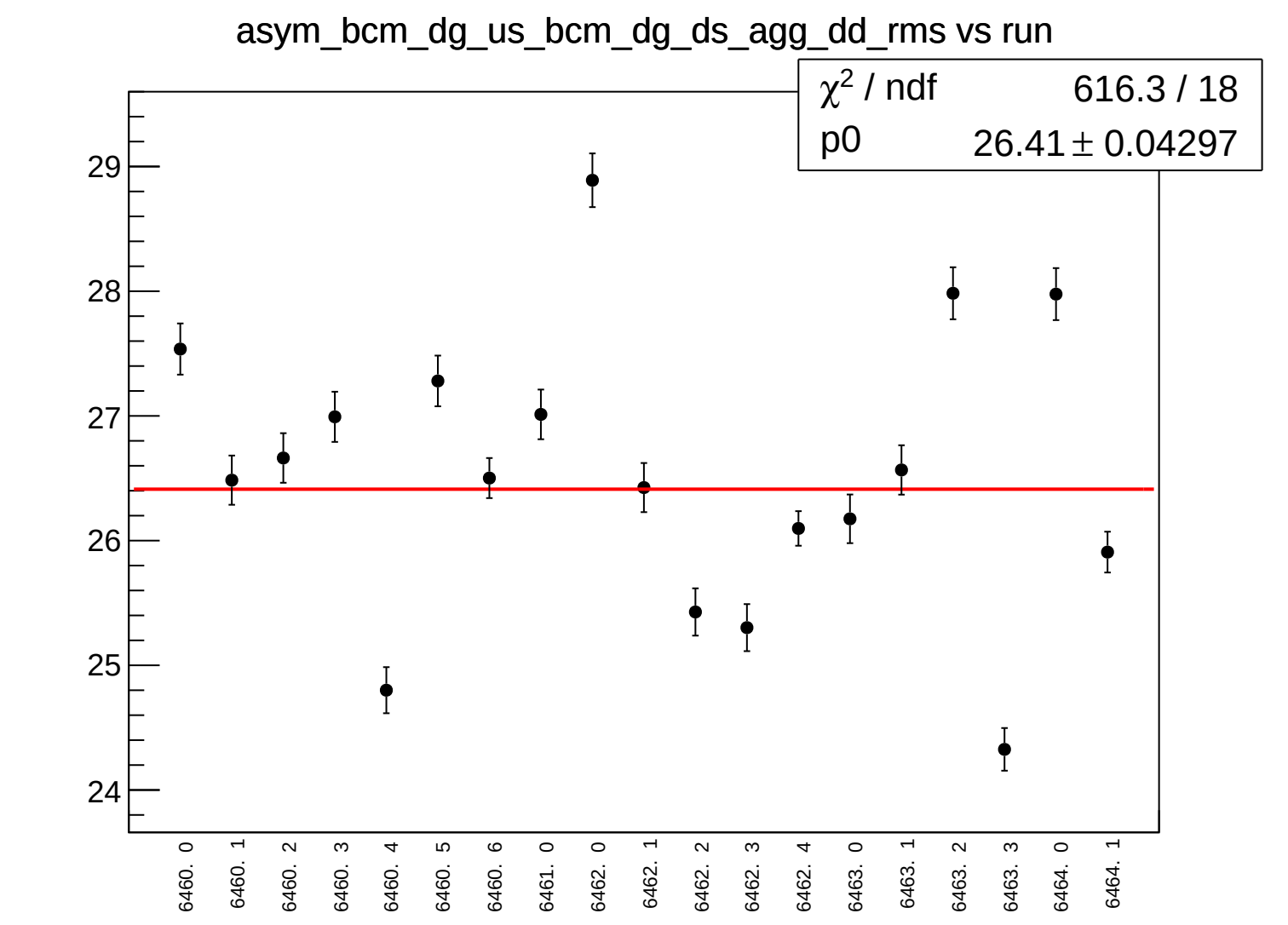

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 7.611 / 18
p0 230.9 ± 449.5
6000
4000
2000
0
−2000
−4000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 25.63
Std Dev 16.44
2
1.5
1
0.5
0
−0.5

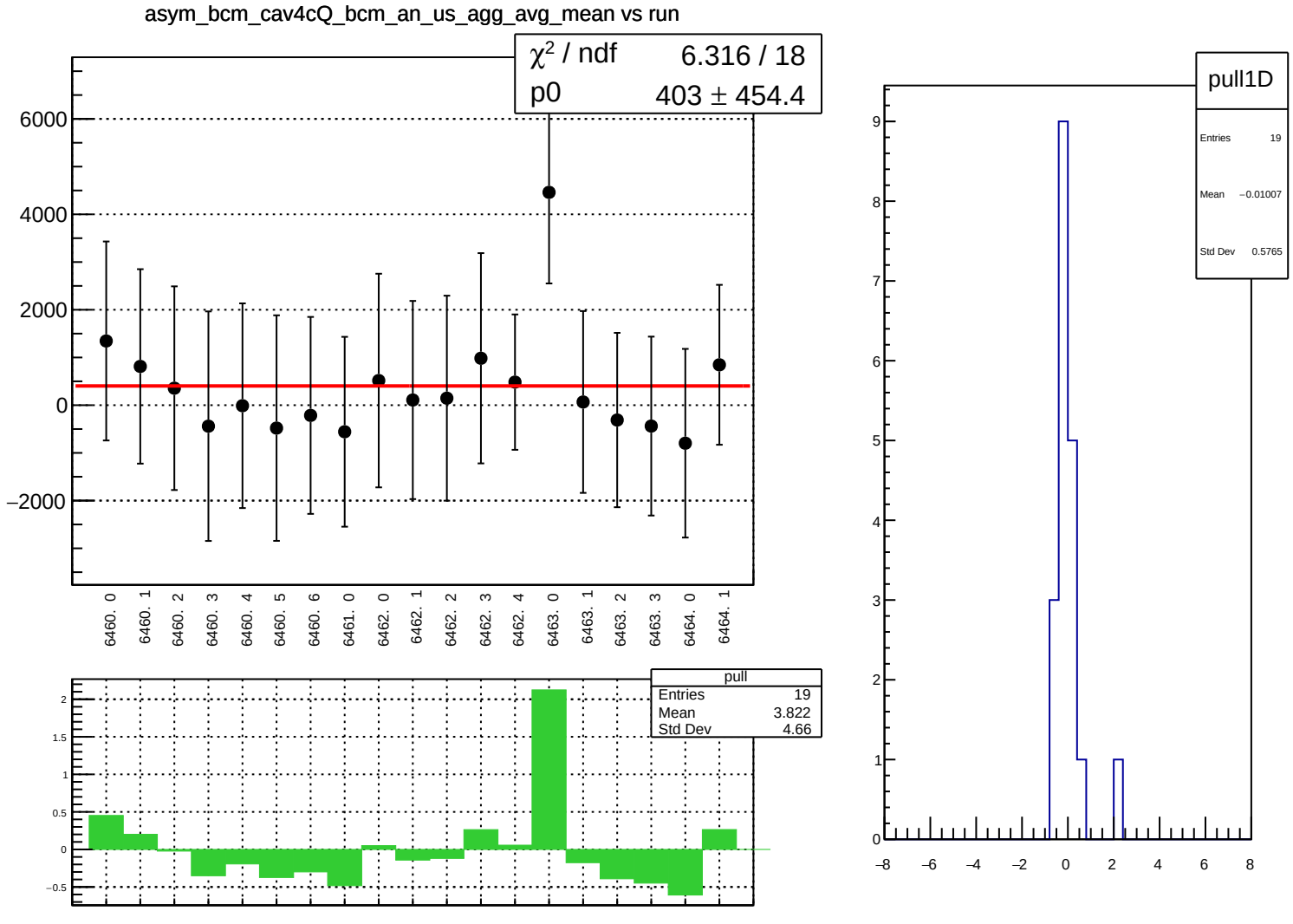

pull1D
Entries 19
Mean −0.008348
Std Dev 0.6329
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

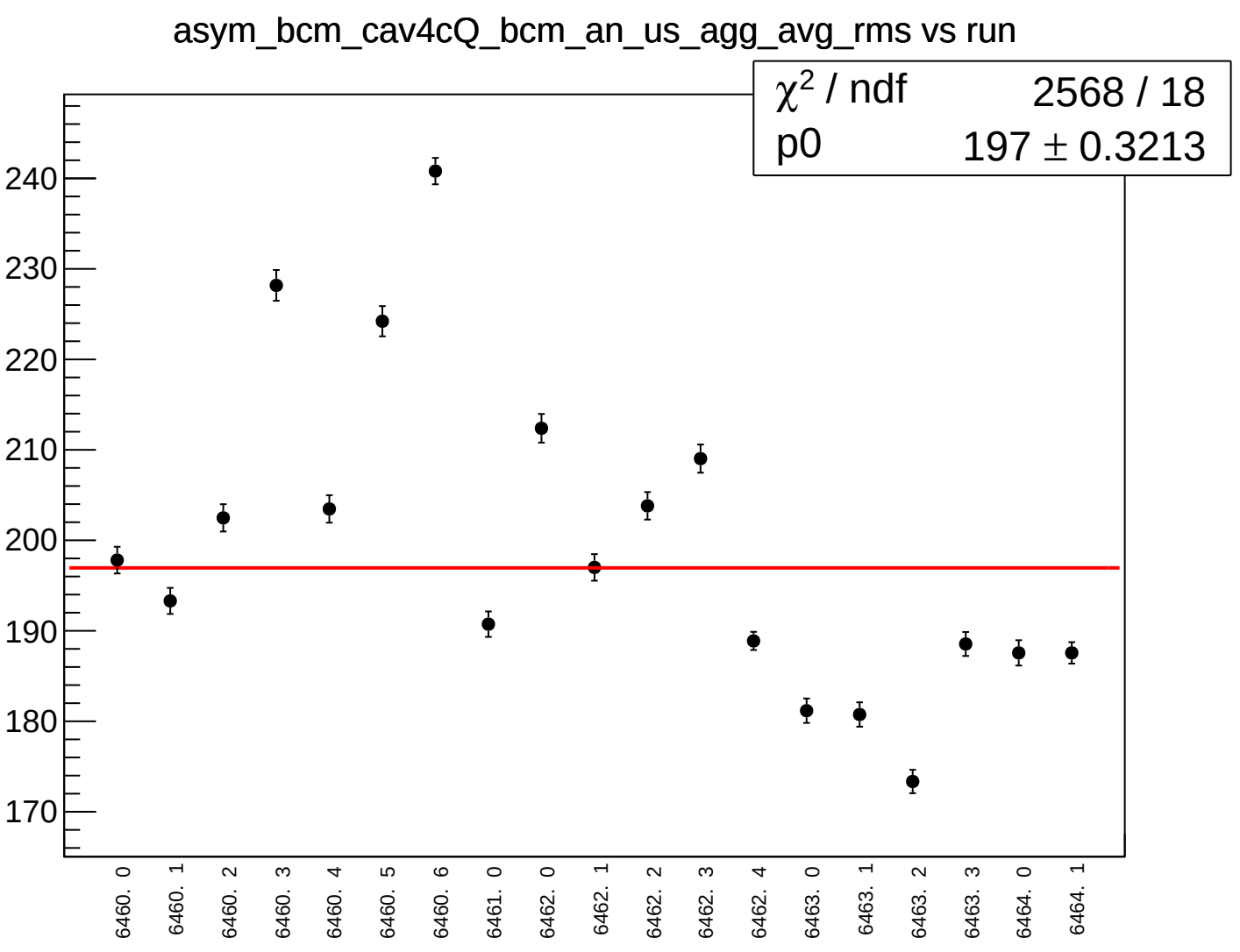

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 2196 / 18
p0 194.9 ± 0.3178
240
230
220
210
200
190
180
170
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

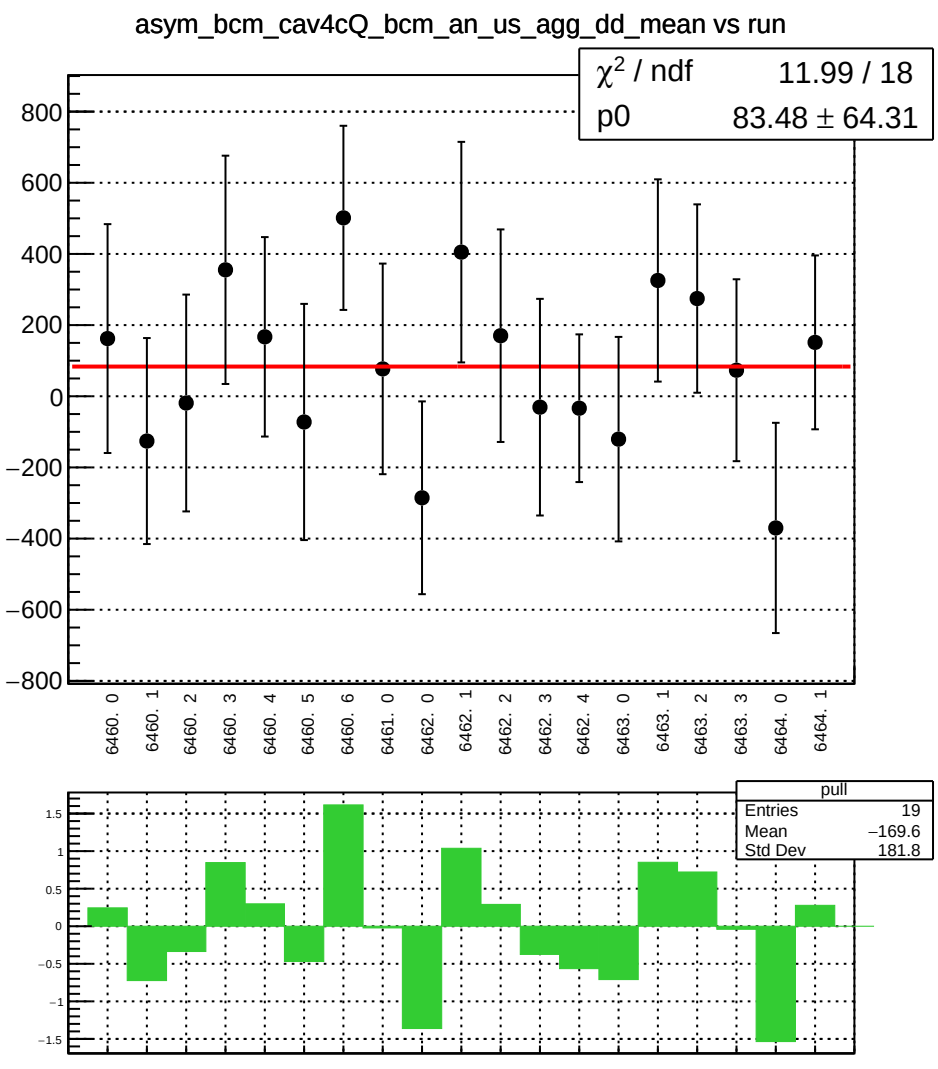

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 28.46 / 18
p0 59.89 ± 60.77
1000
500
0
−500
−1000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −8.659
Std Dev 16.09
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

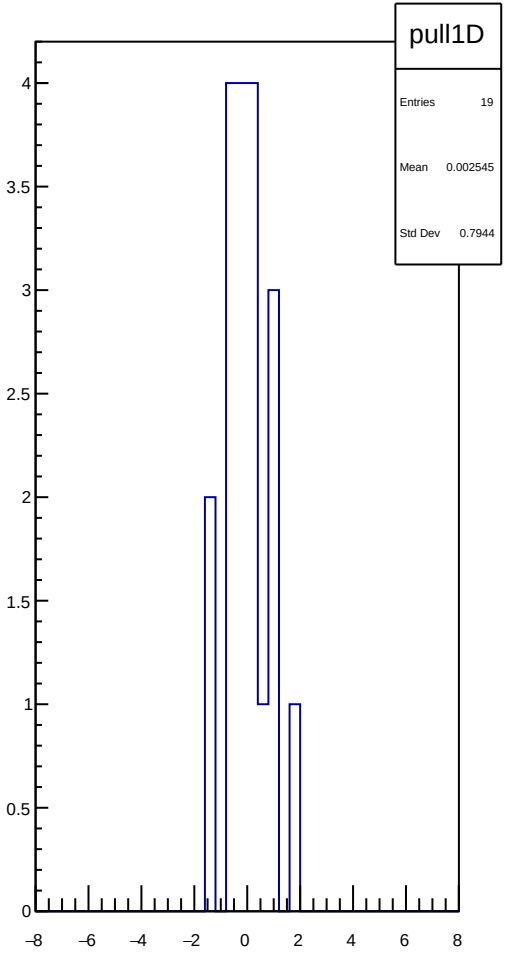

pull1D
Entries 19
Mean 0.009265
Std Dev 1.224
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

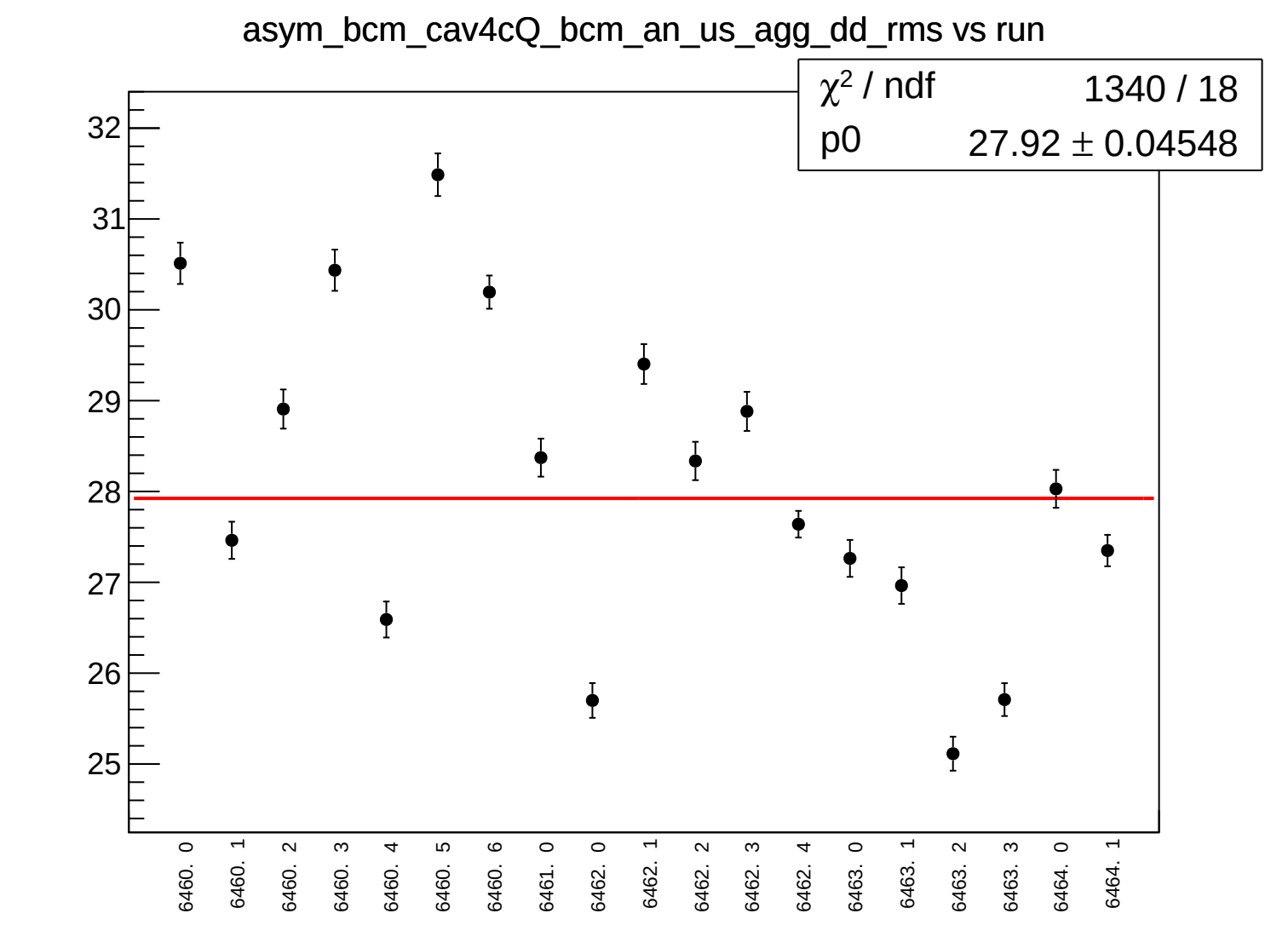

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 616.3 / 18
p0 26.41 ± 0.04297
29
28
27
26
25
24
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

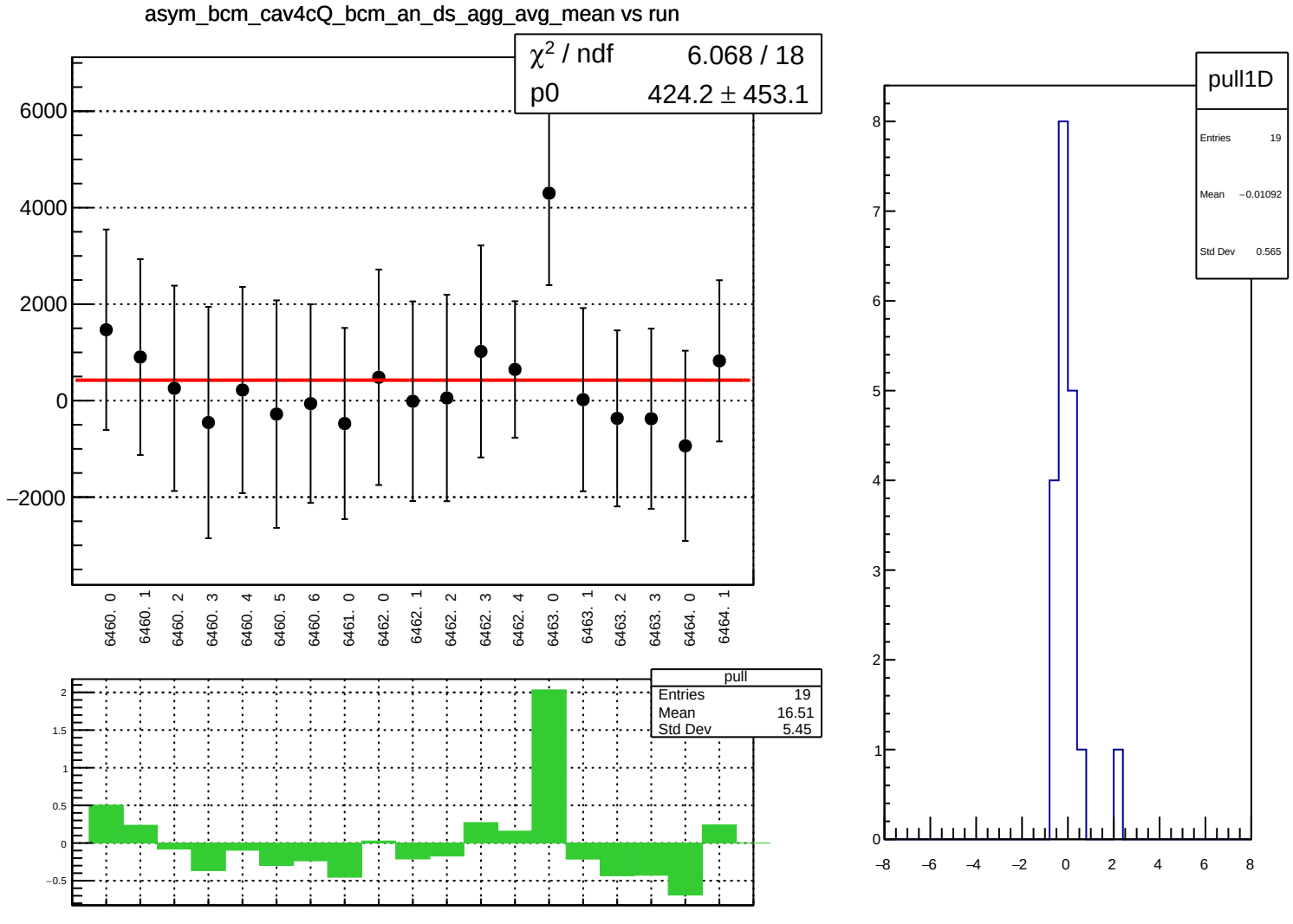

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 6.316 / 18
p0 403 ± 454.4
6000
4000
2000
0
−2000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 3.822
Std Dev 4.66
2
1.5
1
0.5
0
−0.5
pull1D
Entries 19
Mean −0.01007
Std Dev 0.5765
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

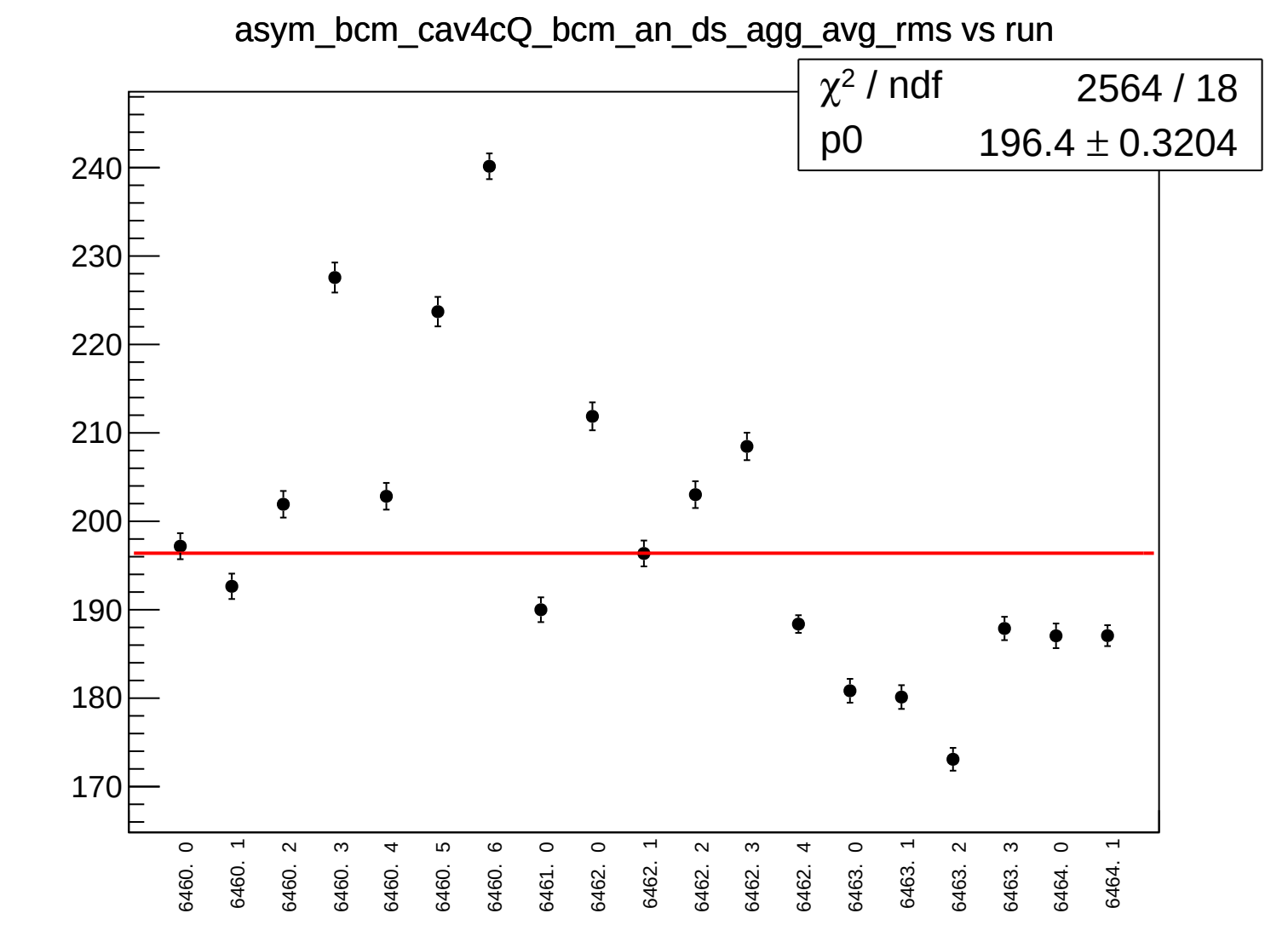

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 2568 / 18
p0 197 ± 0.3213
240
230
220
210
200
190
180
170
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

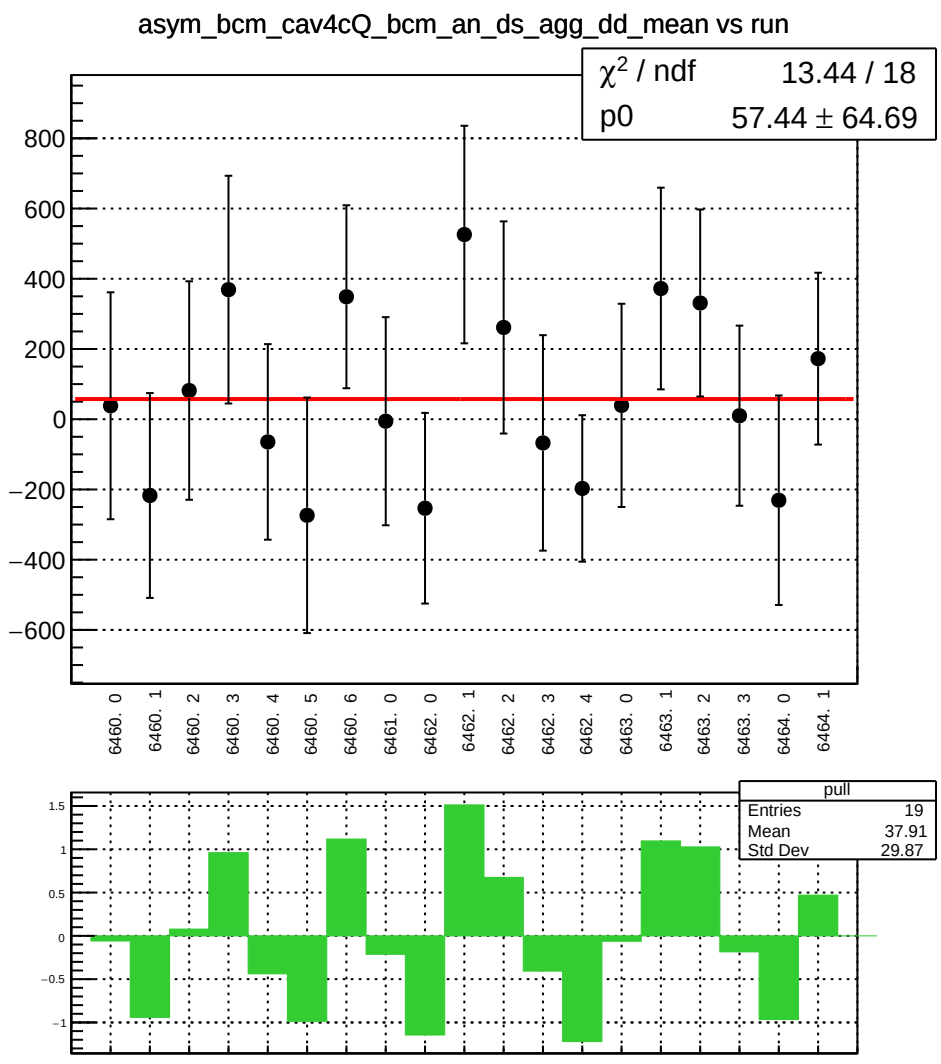

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 11.99 / 18
p0 83.48 ± 64.31
800
600
400
200
0
−200
−400
−600
−800
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −169.6
Std Dev 181.8
1.5
1
0.5
0
−0.5
−1
−1.5

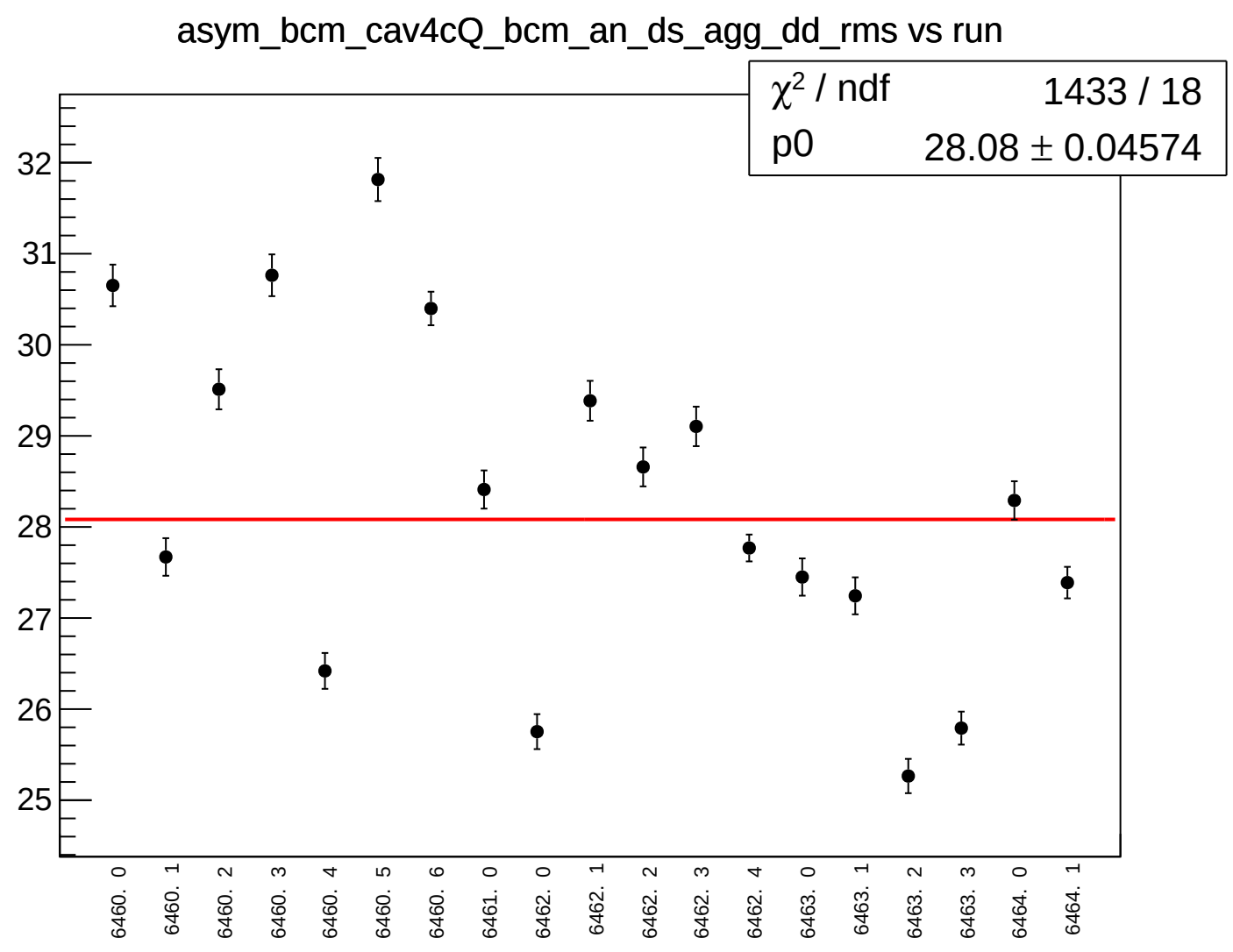

pull1D
Entries 19
Mean 0.002545
Std Dev 0.7944
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

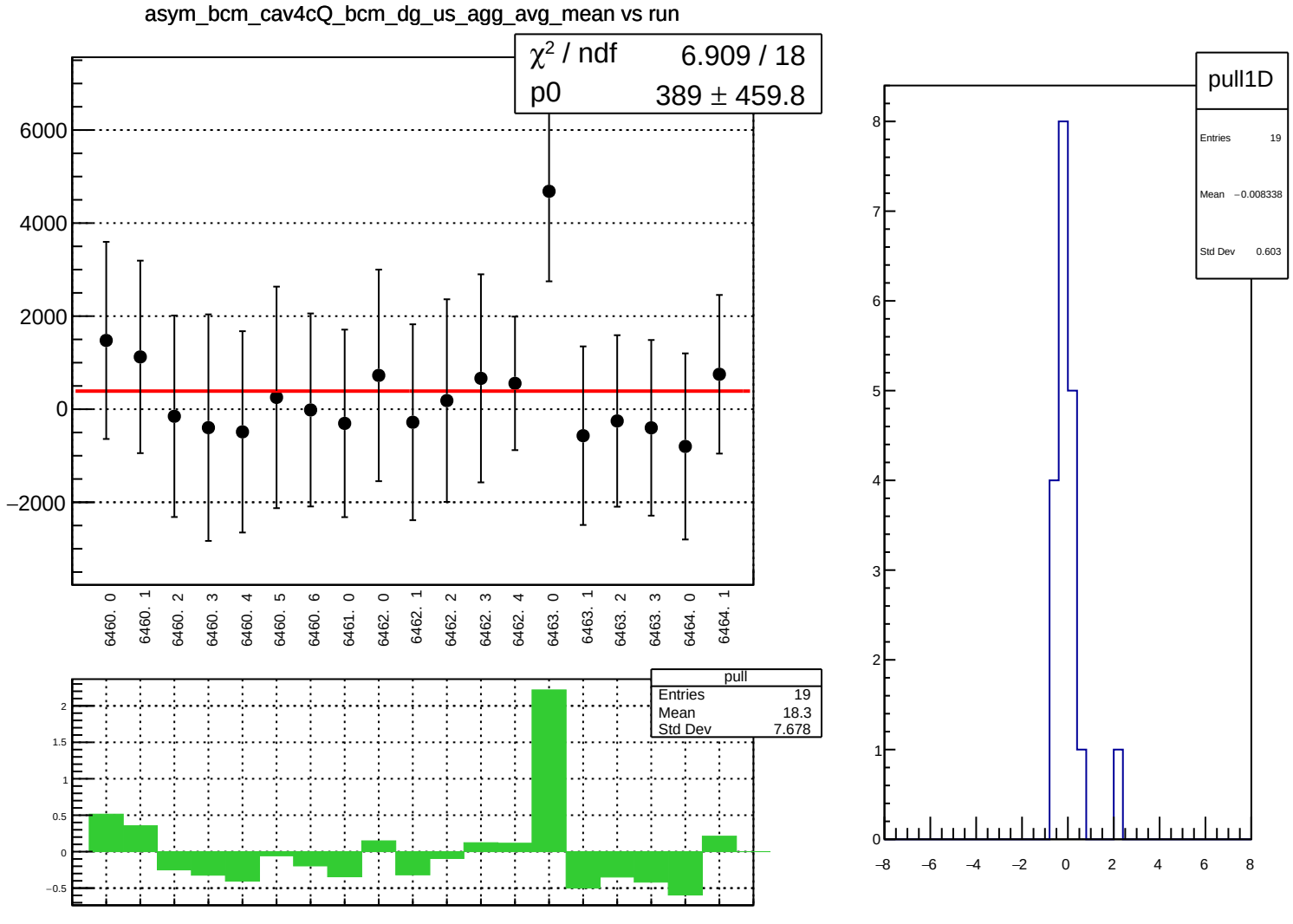

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1340 / 18
p0 27.92 ± 0.04548
32
31
30
29
28
27
26
25
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

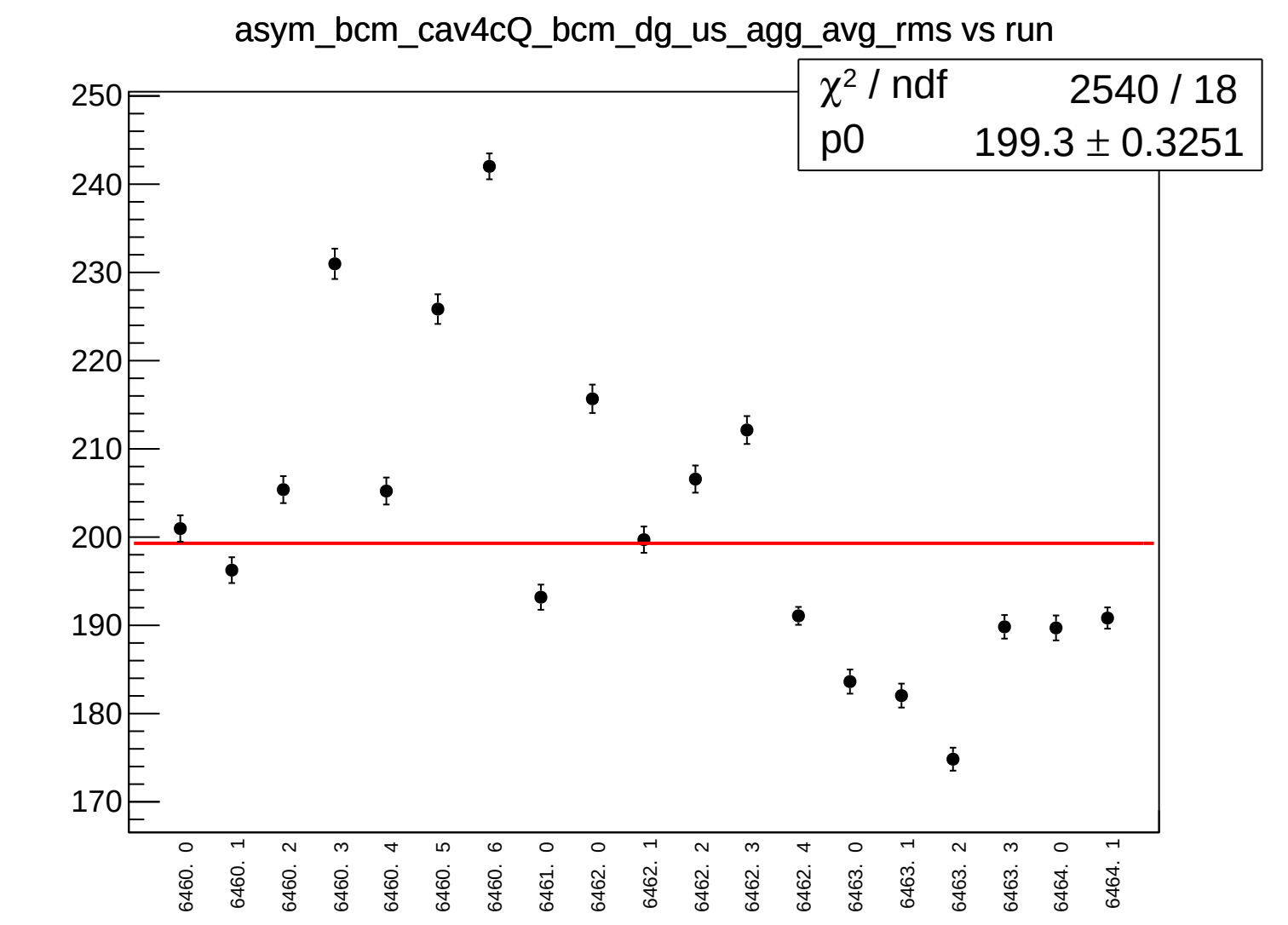

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 6.068 / 18
p0 424.2 ± 453.1
6000
4000
2000
0
−2000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 16.51
Std Dev 5.45
2
1.5
1
0.5
0
−0.5
pull1D
Entries 19
Mean −0.01092
Std Dev 0.565
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

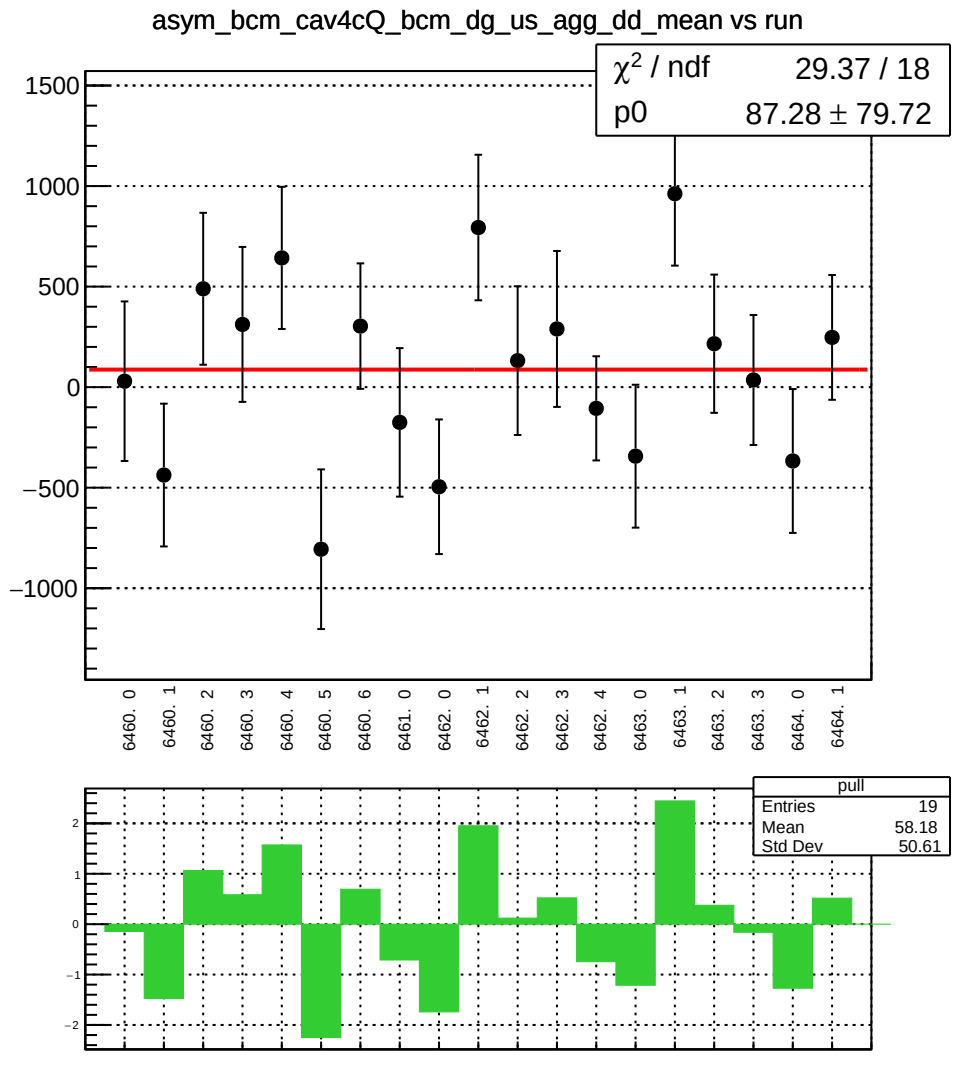

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2564 / 18
p0 196.4 ± 0.3204
240
230
220
210
200
190
180
170
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

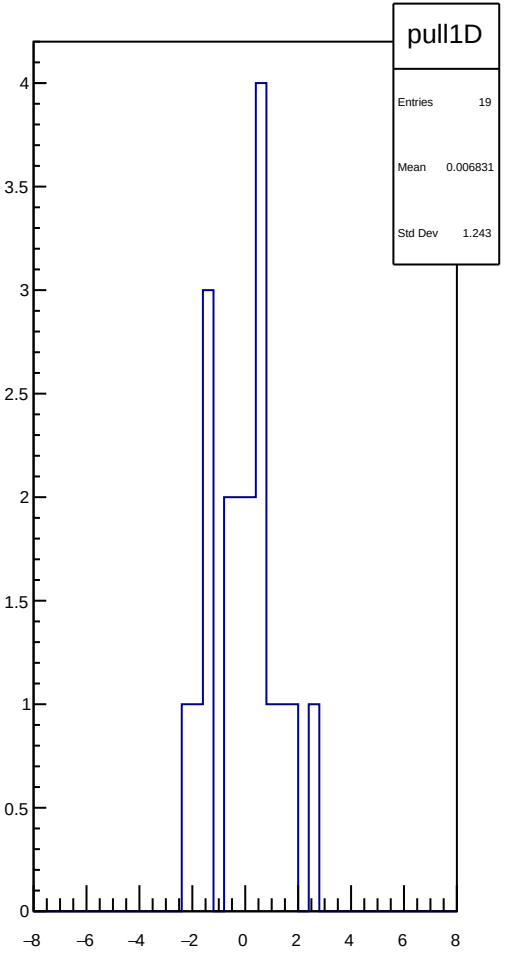

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 13.44 / 18
p0 57.44 ± 64.69
800
600
400
200
0
−200
−400
−600
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 37.91
Std Dev 29.87
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 19
Mean 0.01651
Std Dev 0.8409
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

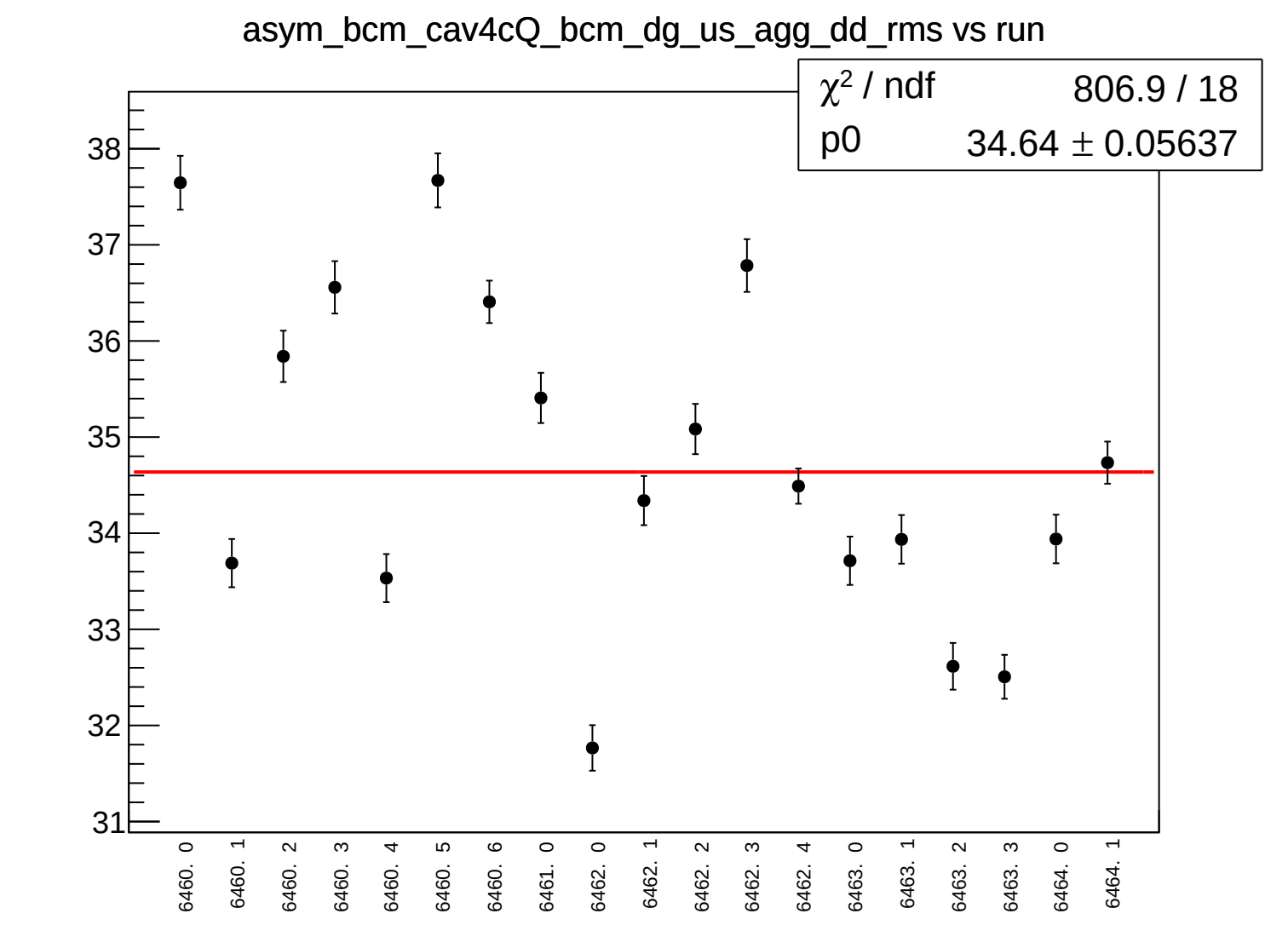

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1433 / 18
p0 28.08 ± 0.04574
32
31
30
29
28
27
26
25
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

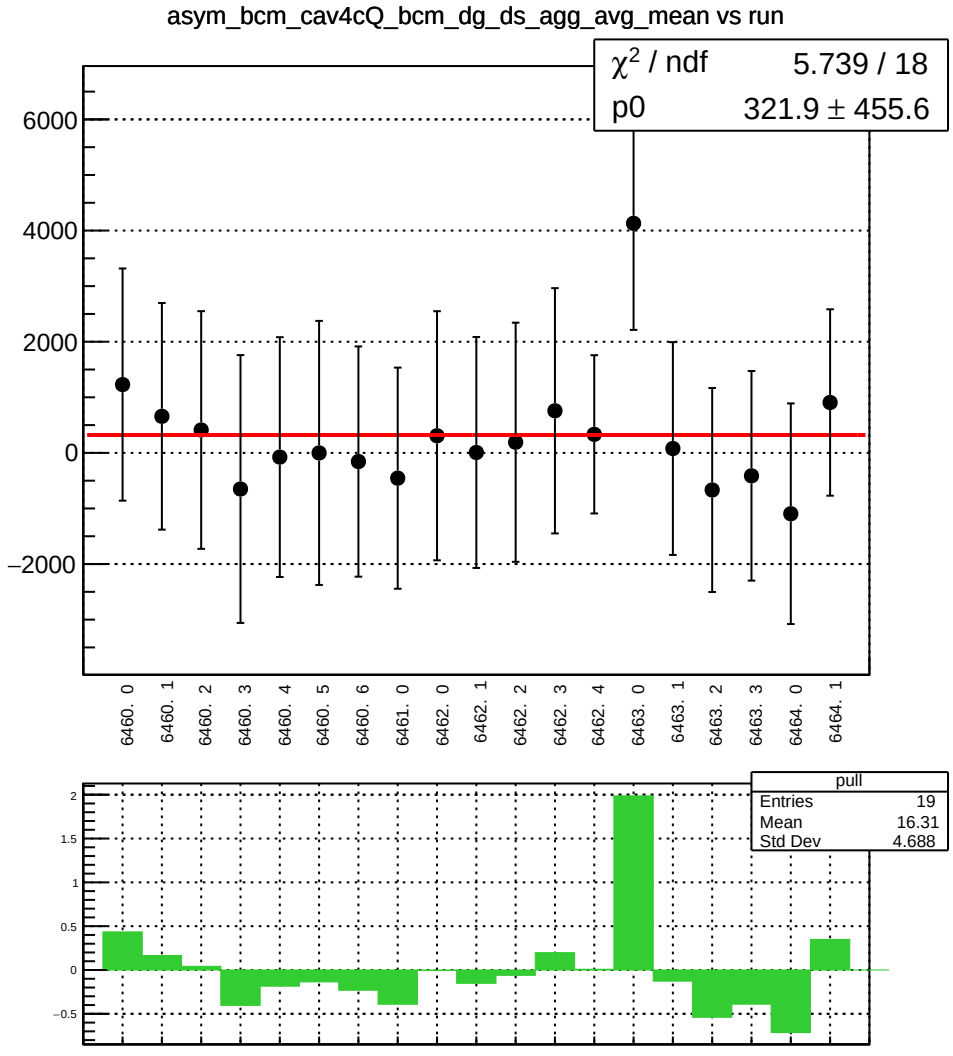

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 6.909 / 18
p0 389 ± 459.8
6000
4000
2000
0
−2000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 18.3
Std Dev 7.678
2
1.5
1
0.5
0
−0.5
pull1D
Entries 19
Mean −0.008338
Std Dev 0.603
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

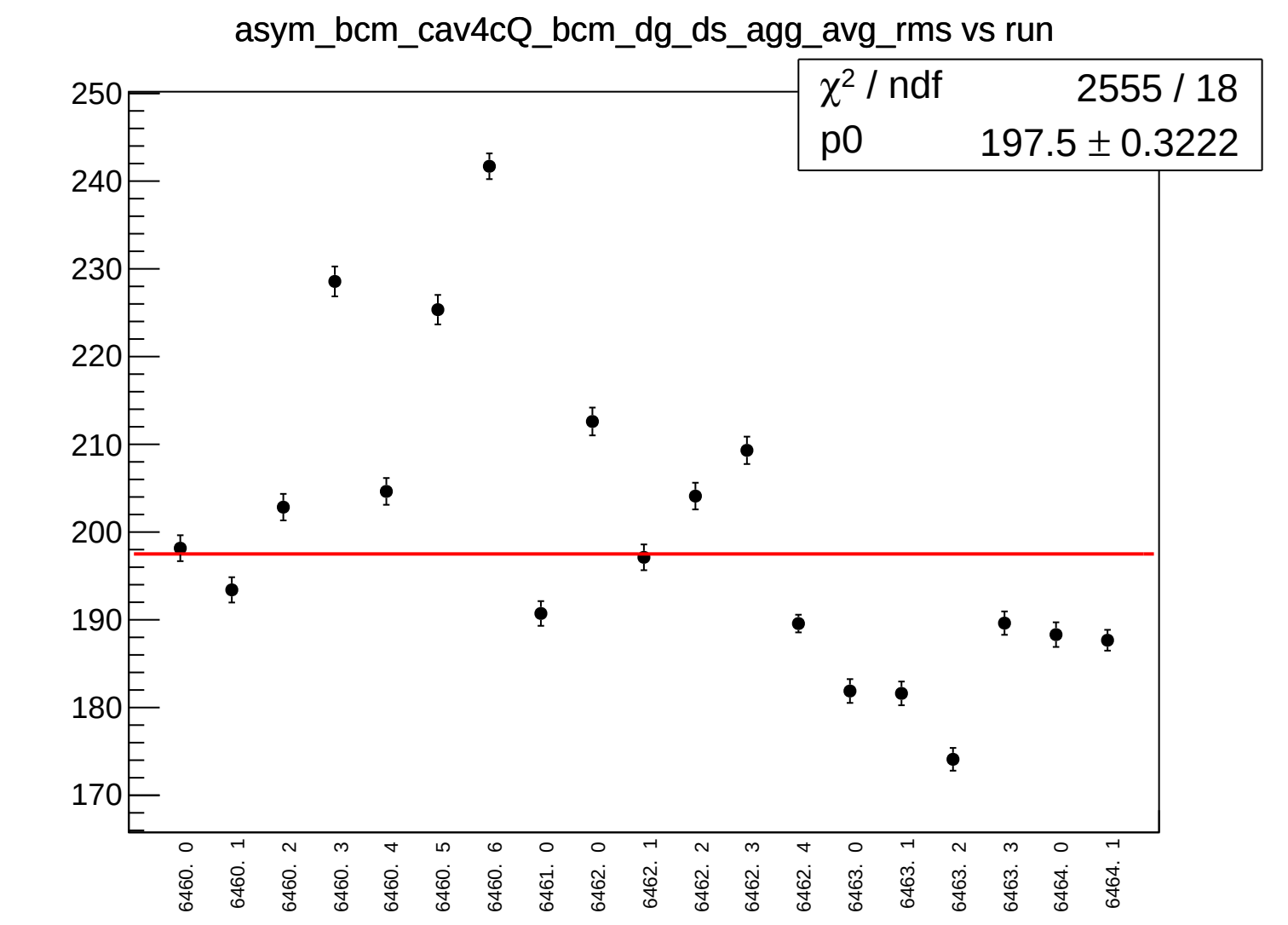

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 2540 / 18
p0 199.3 ± 0.3251
250
240
230
220
210
200
190
180
170
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

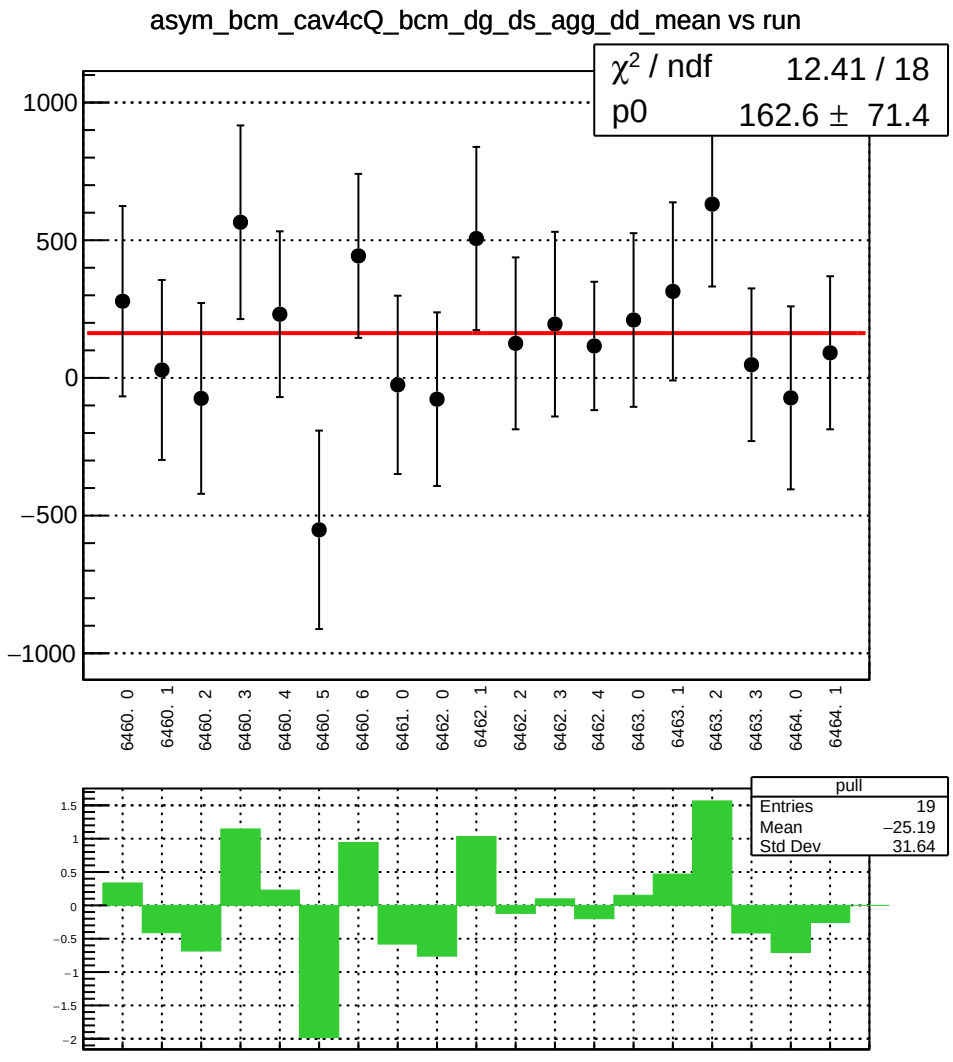

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 29.37 / 18
p0 87.28 ± 79.72
1500
1000
500
0
−500
−1000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 58.18
Std Dev 50.61
2
1
0
−1
−2

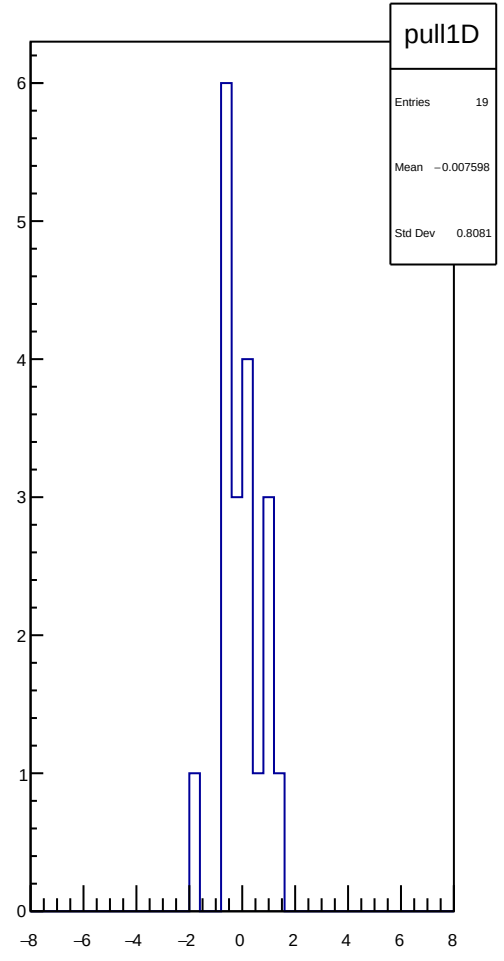

pull1D
Entries 19
Mean 0.006831
Std Dev 1.243
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

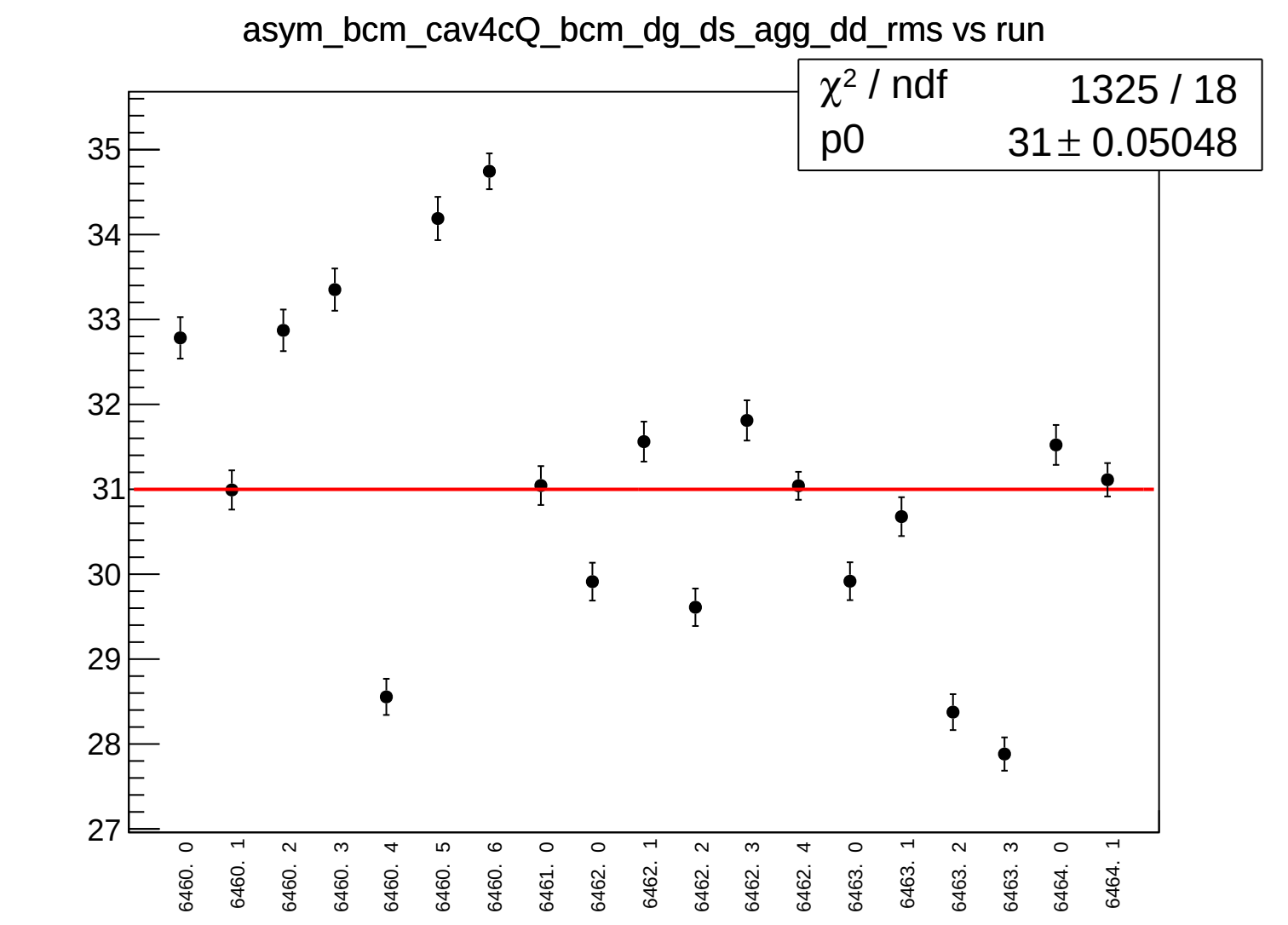

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 806.9 / 18
p0 34.64 ± 0.05637
38
37
36
35
34
33
32
31
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

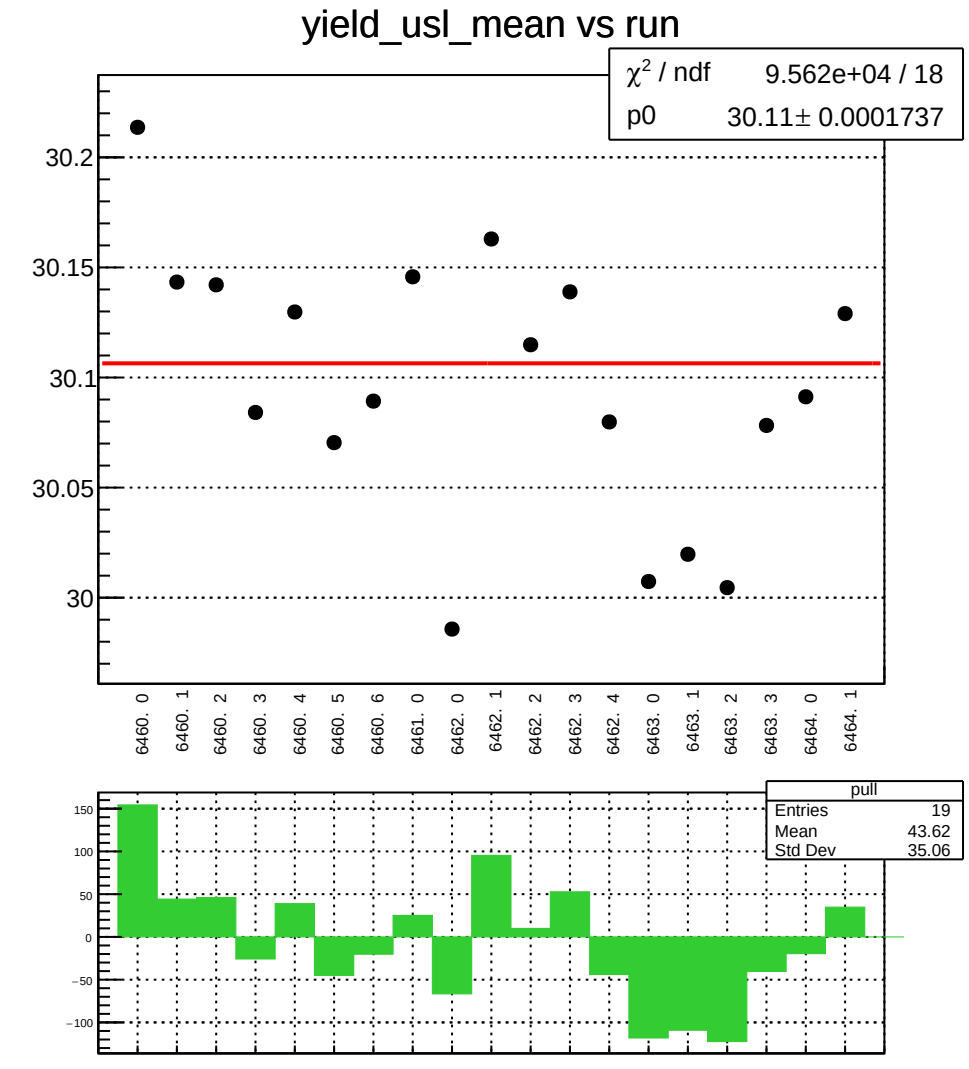

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 5.739 / 18
p0 321.9 ± 455.6
6000
4000
2000
0
−2000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 16.31
Std Dev 4.688
2
1.5
1
0.5
0
−0.5
pull1D
Entries 19
Mean −0.00791
Std Dev 0.5495
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

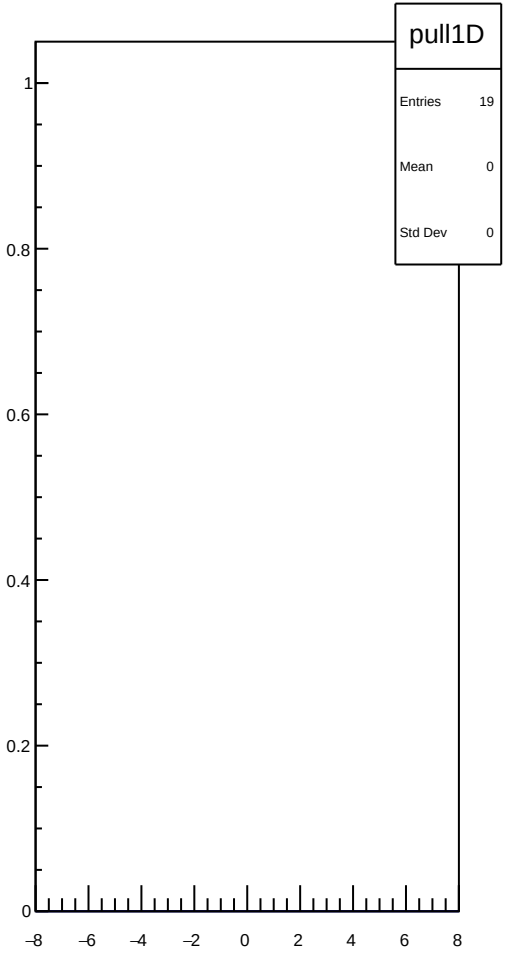

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 2555 / 18
p0 197.5 ± 0.3222
250
240
230
220
210
200
190
180
170
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

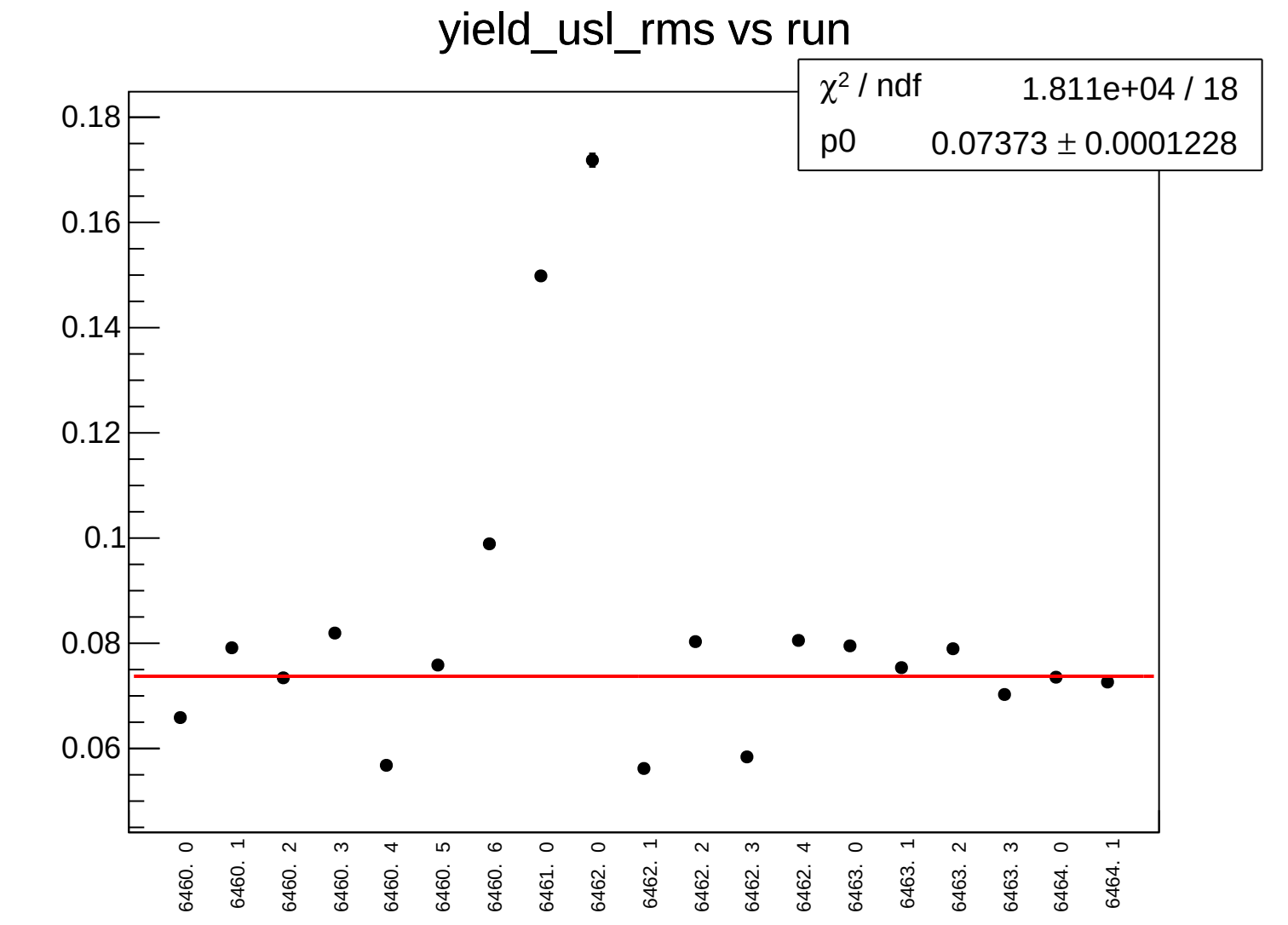

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 12.41 / 18
p0 162.6 ± 71.4
1000
500
0
−500
−1000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −25.19
Std Dev 31.64
1.5
1
0.5
0
−0.5
−1
−1.5
−2

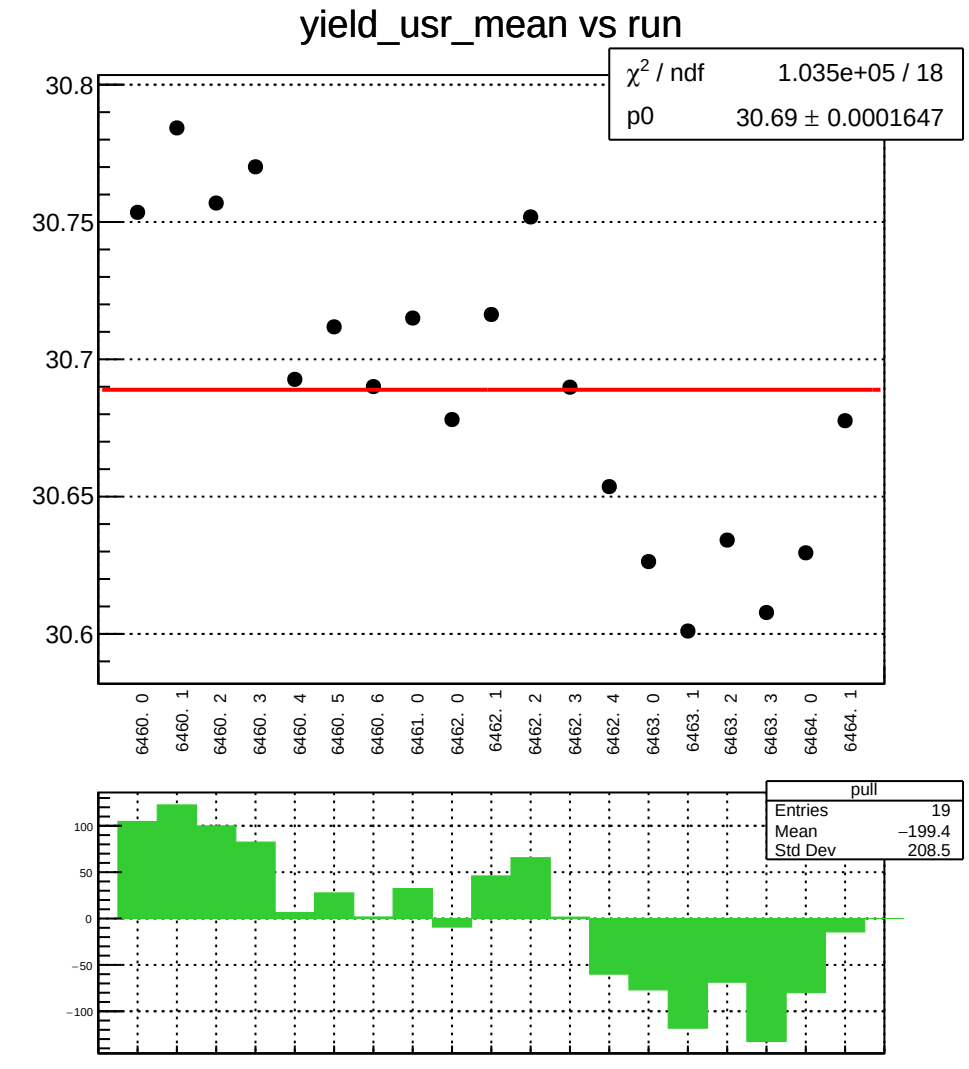

pull1D
Entries 19
Mean −0.007598
Std Dev 0.8081
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

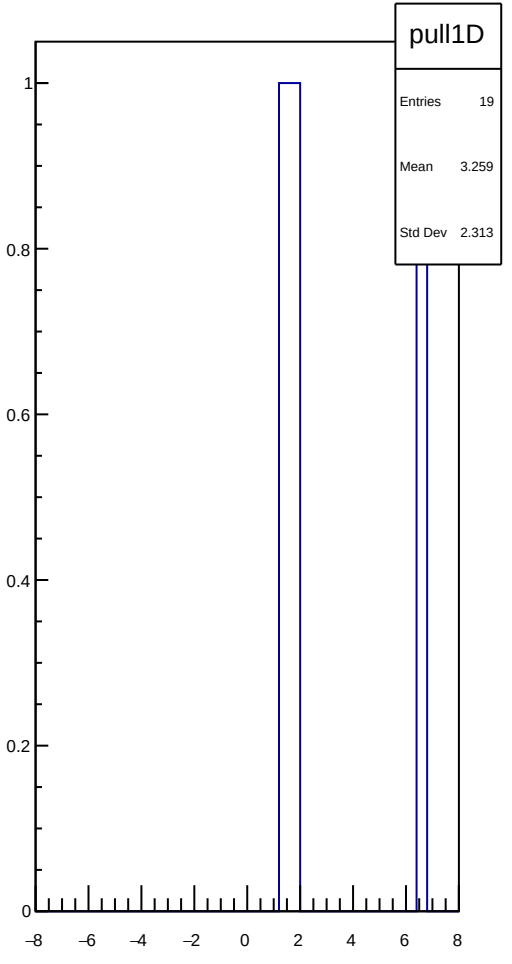

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1325 / 18
p0 31 ± 0.05048
35
34
33
32
31
30
29
28
27
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

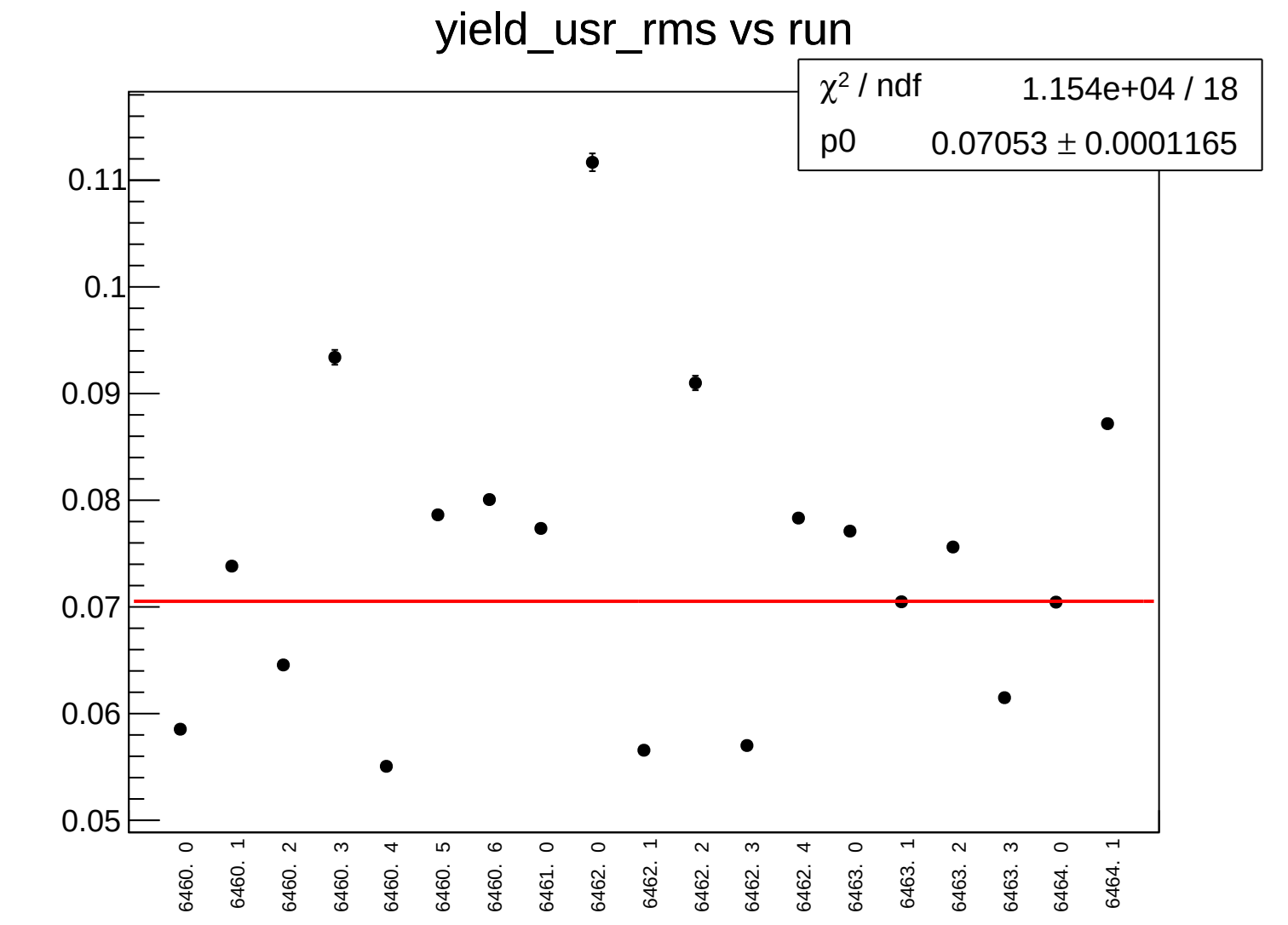

yield_usl_mean vs run
χ² / ndf 9.562e+04 / 18
p0 30.11± 0.0001737
30.2
30.15
30.1
30.05
30
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 43.62
Std Dev 35.06
150
100
50
0
−50
−100

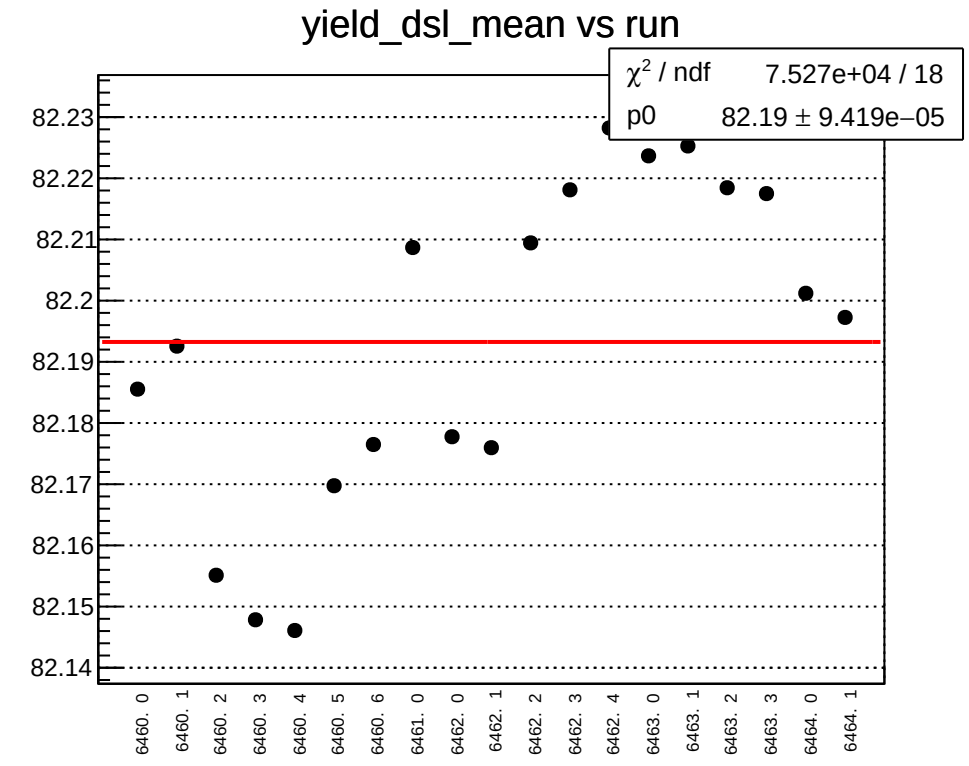

pull1D
Entries 19
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

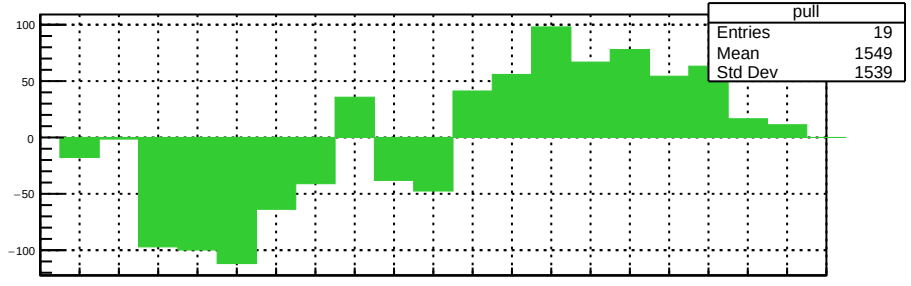

yield_usl_rms vs run
χ² / ndf 1.811e+04 / 18
p0 0.07373 ± 0.0001228
0.18
0.16
0.14
0.12
0.1
0.08
0.06
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

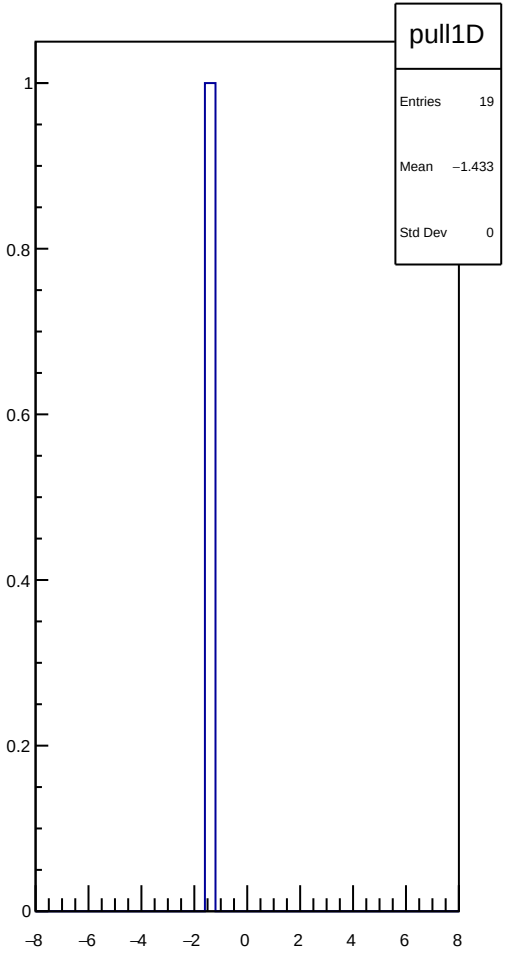

yield_usr_mean vs run
χ² / ndf 1.035e+05 / 18
p0 30.69 ± 0.0001647
30.8
30.75
30.7
30.65
30.6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −199.4
Std Dev 208.5
100
50
0
−50
−100

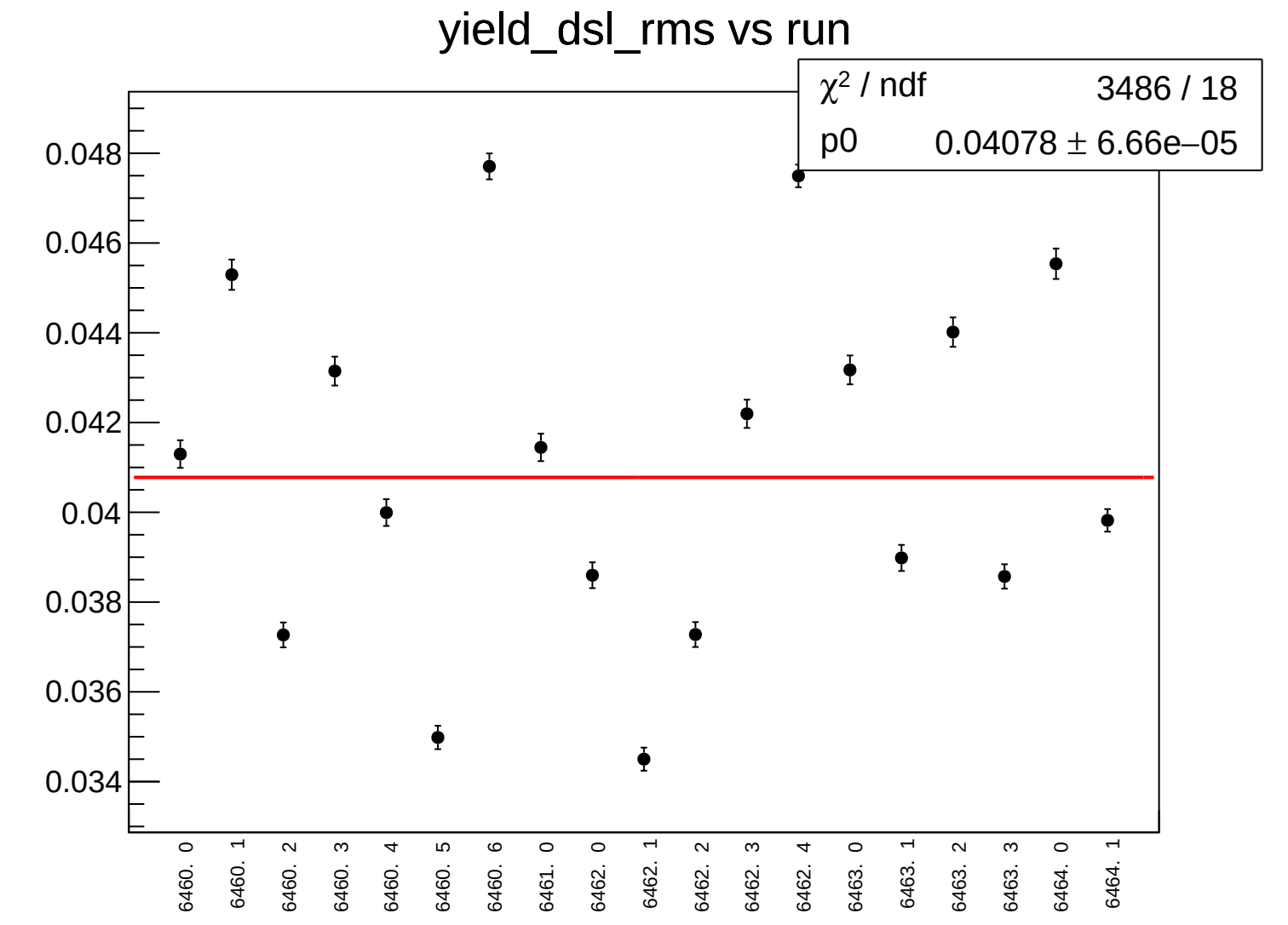

pull1D
Entries 19
Mean 3.259
Std Dev 2.313
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

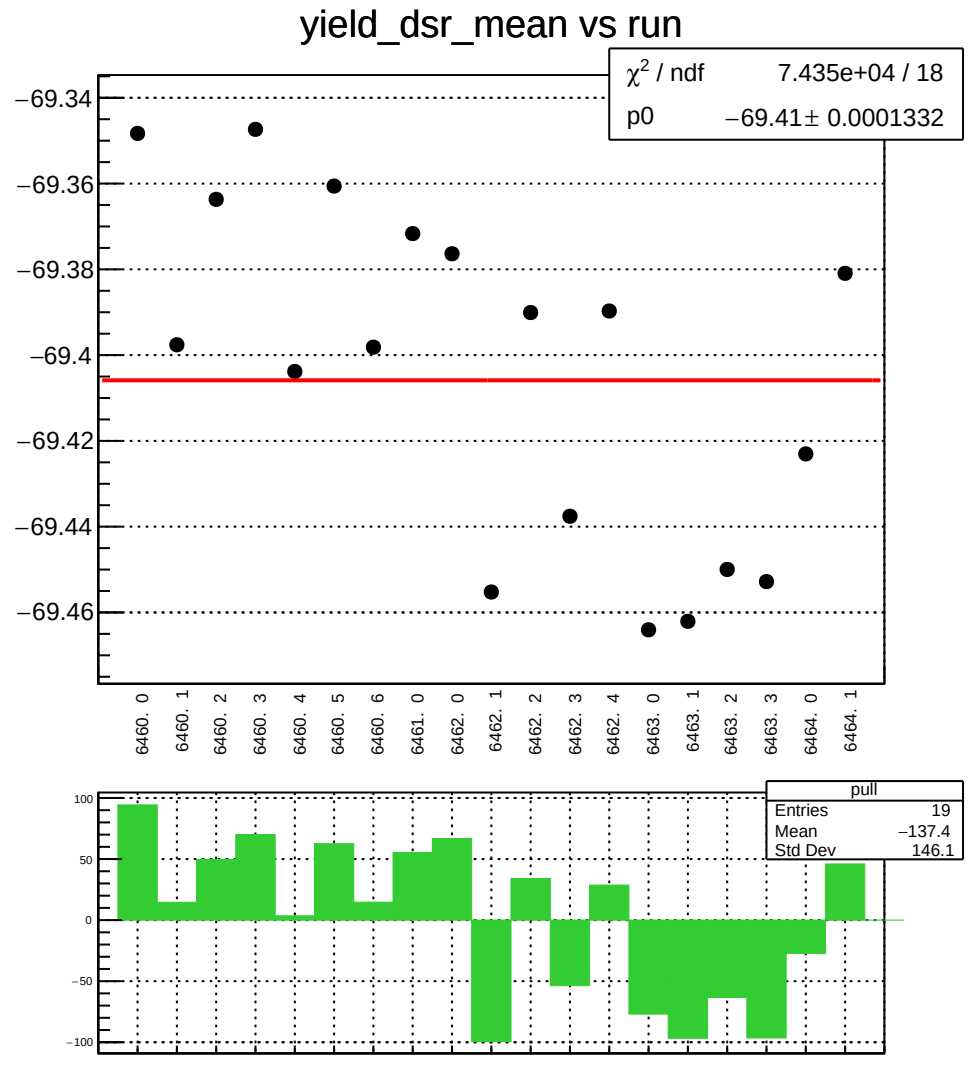

yield_usr_rms vs run
χ² / ndf 1.154e+04 / 18
p0 0.07053 ± 0.0001165
0.11
0.1
0.09
0.08
0.07
0.06
0.05
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

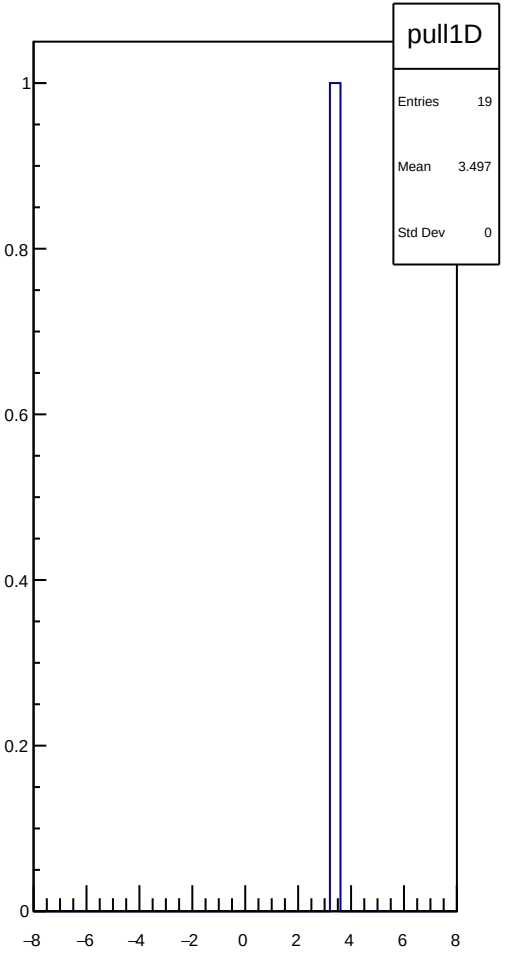

yield_dsl_mean vs run
χ² / ndf 7.527e+04 / 18
p0 82.19 ± 9.419e−05
82.23
82.22
82.21
82.2
82.19
82.18
82.17
82.16
82.15
82.14
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

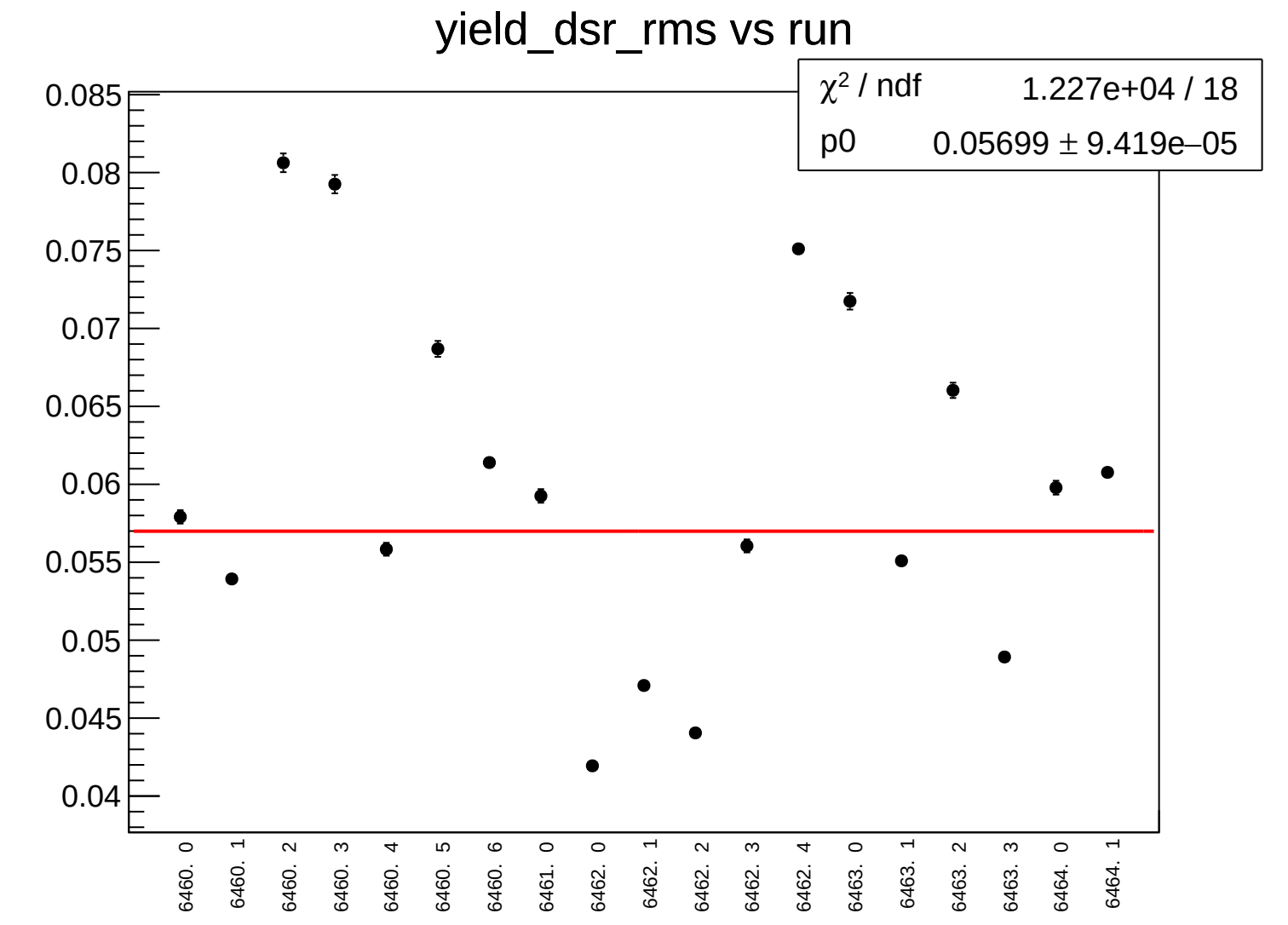

pull
Entries 19
Mean 1549
Std Dev 1539
100
50
0
−50
−100

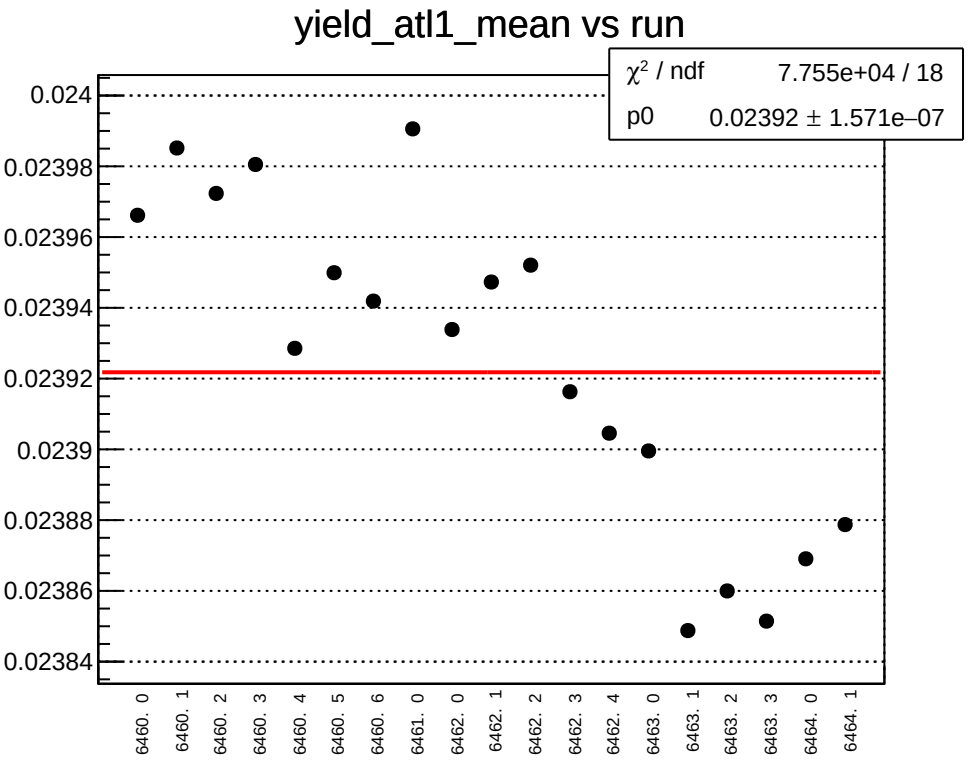

pull1D
Entries 19
Mean −1.433
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

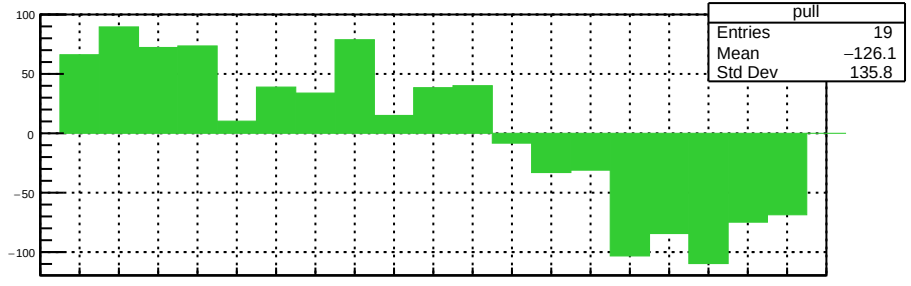

yield_dsl_rms vs run
χ² / ndf 3486 / 18
p0 0.04078 ± 6.66e−05
0.048
0.046
0.044
0.042
0.04
0.038
0.036
0.034
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

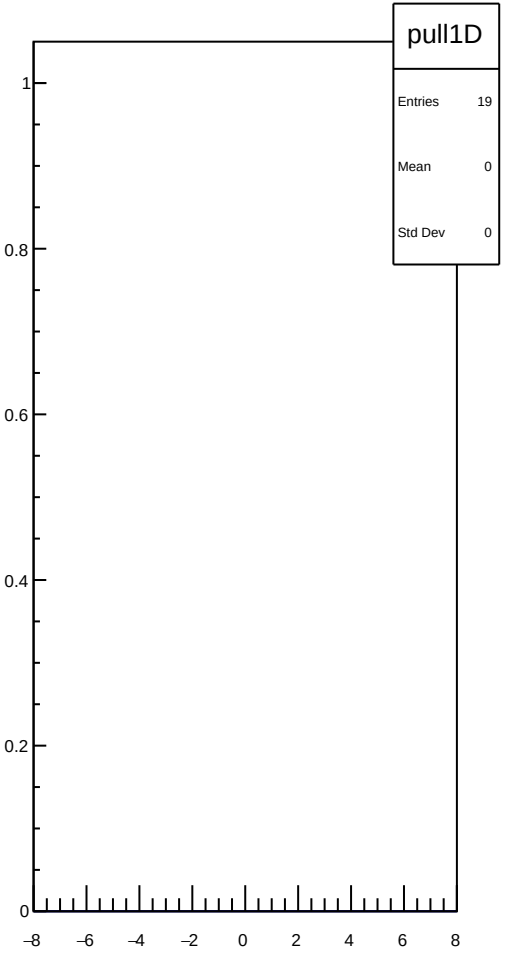

yield_dsr_mean vs run
χ² / ndf 7.435e+04 / 18
p0 −69.41 ± 0.0001332
−69.34
−69.36
−69.38
−69.4
−69.42
−69.44
−69.46
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −137.4
Std Dev 146.1
100
50
0
−50
−100

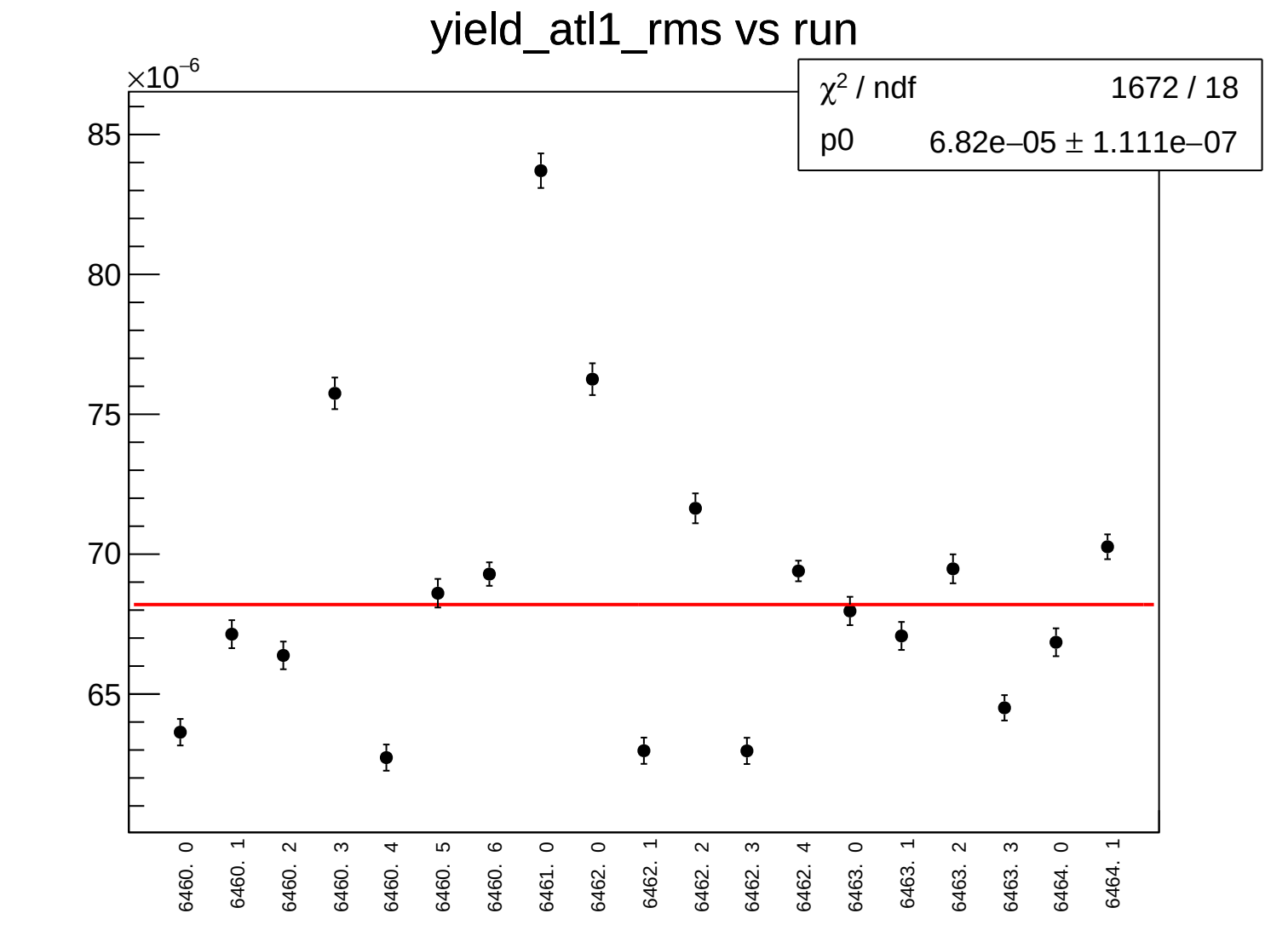

pull1D
Entries 19
Mean 3.497
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

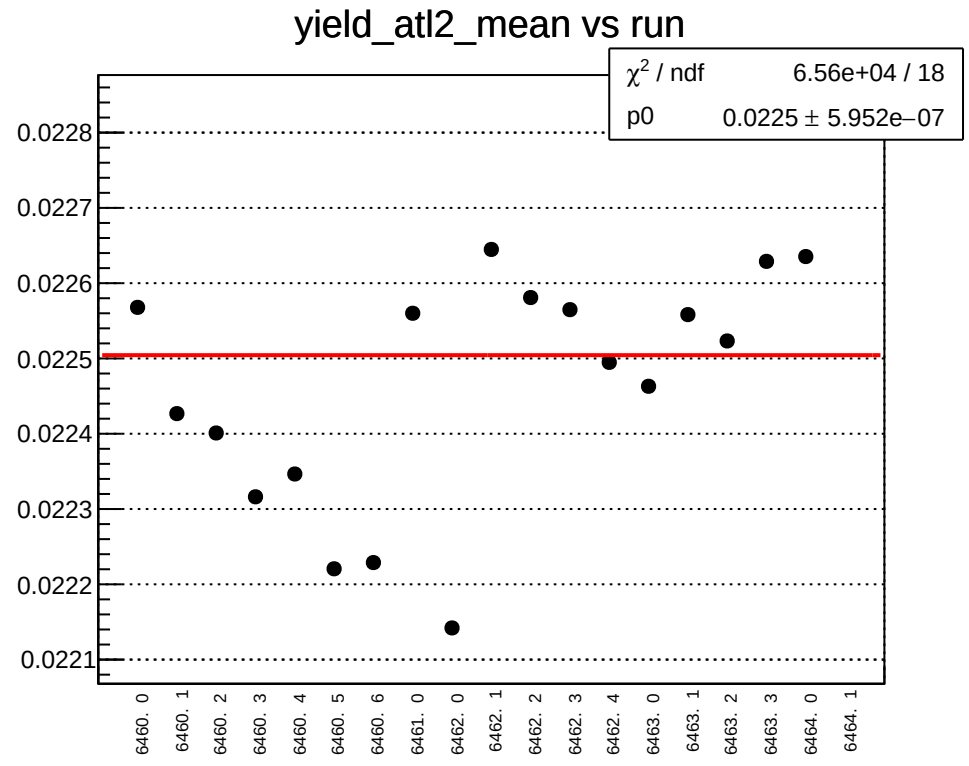

yield_dsr_rms vs run
χ² / ndf 1.227e+04 / 18
p0 0.05699 ± 9.419e−05
0.085
0.08
0.075
0.07
0.065
0.06
0.055
0.05
0.045
0.04
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

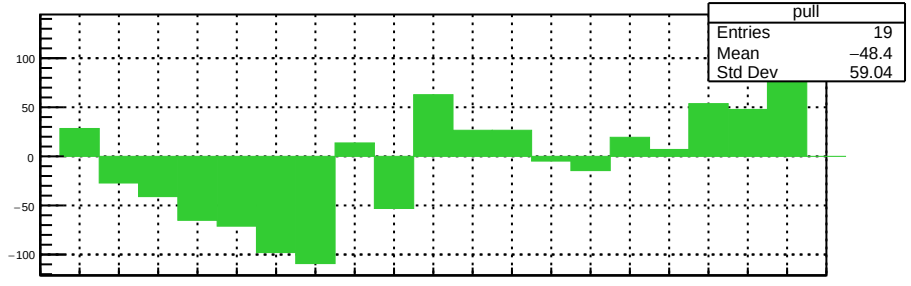

yield_atl1_mean vs run
χ² / ndf 7.755e+04 / 18
p0 0.02392 ± 1.571e−07
0.024
0.02398
0.02396
0.02394
0.02392
0.0239
0.02388
0.02386
0.02384
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

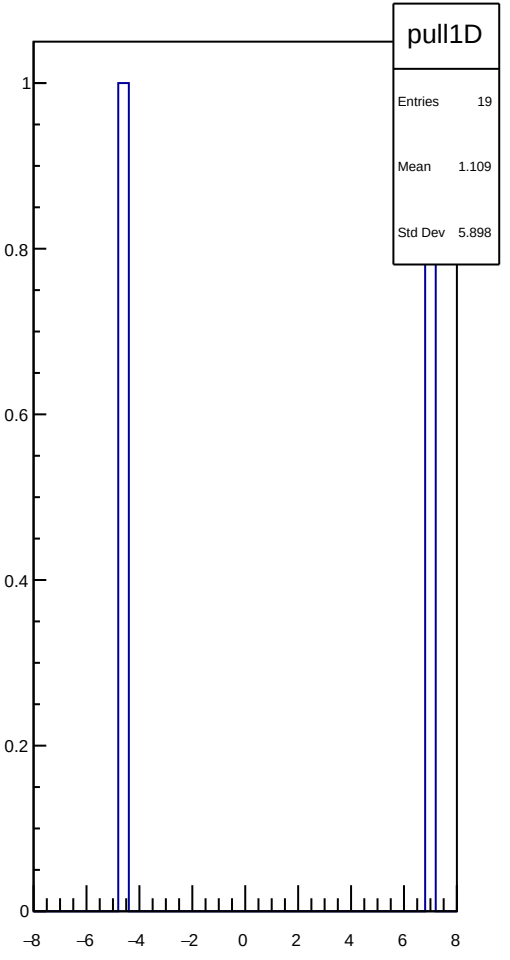

pull
Entries 19
Mean −126.1
Std Dev 135.8
100
50
0
−50
−100

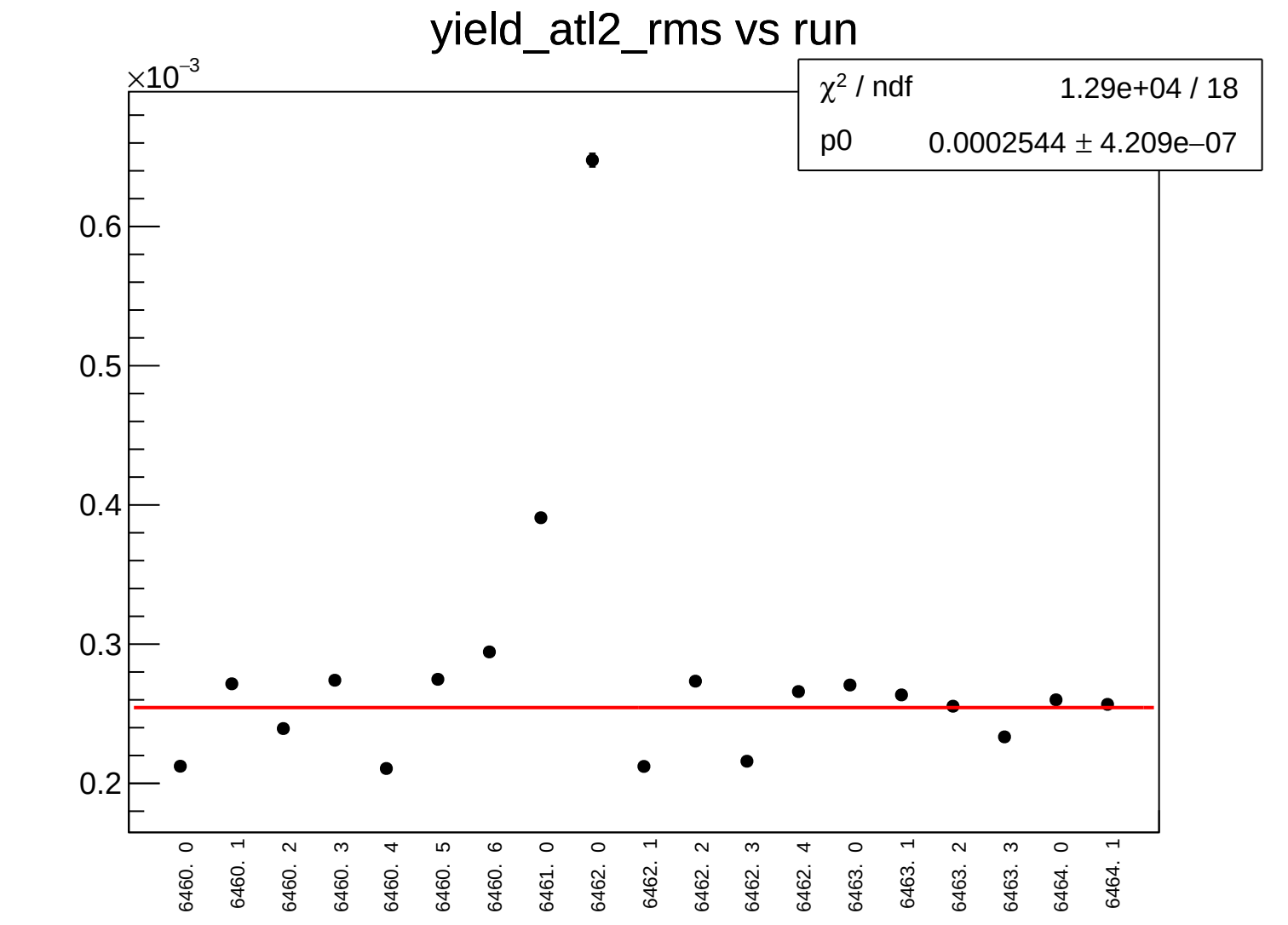

pull1D
Entries 19
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

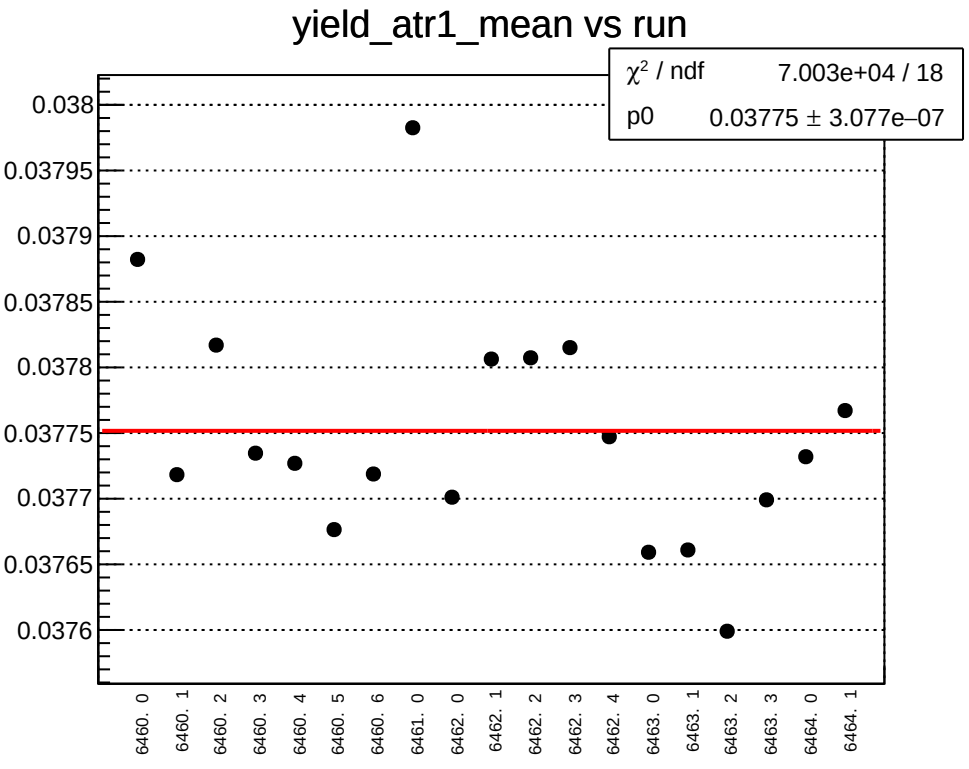

yield_atl1_rms vs run
×10⁻⁶
χ² / ndf 1672 / 18
p0 6.82e−05 ± 1.111e−07
85
80
75
70
65
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

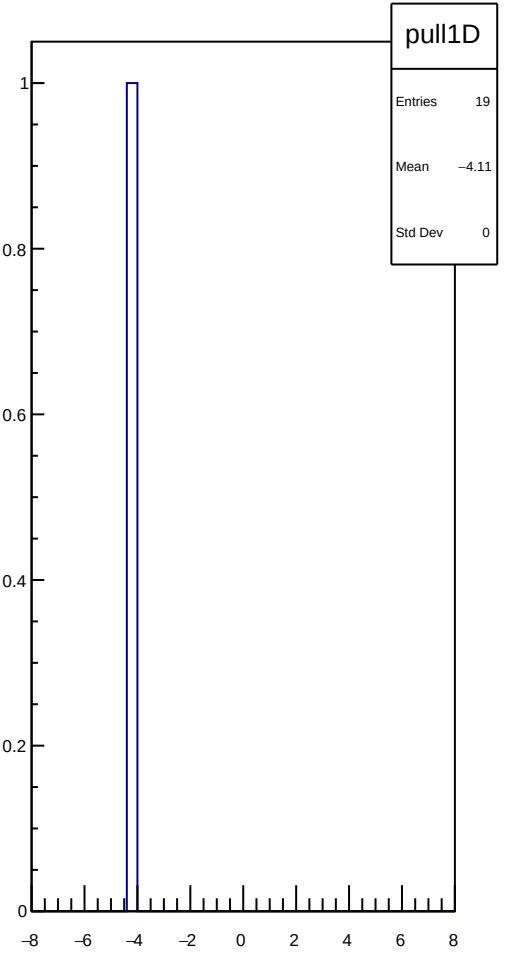

yield_atl2_mean vs run
χ² / ndf 6.56e+04 / 18
p0 0.0225 ± 5.952e−07
0.0228
0.0227
0.0226
0.0225
0.0224
0.0223
0.0222
0.0221
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

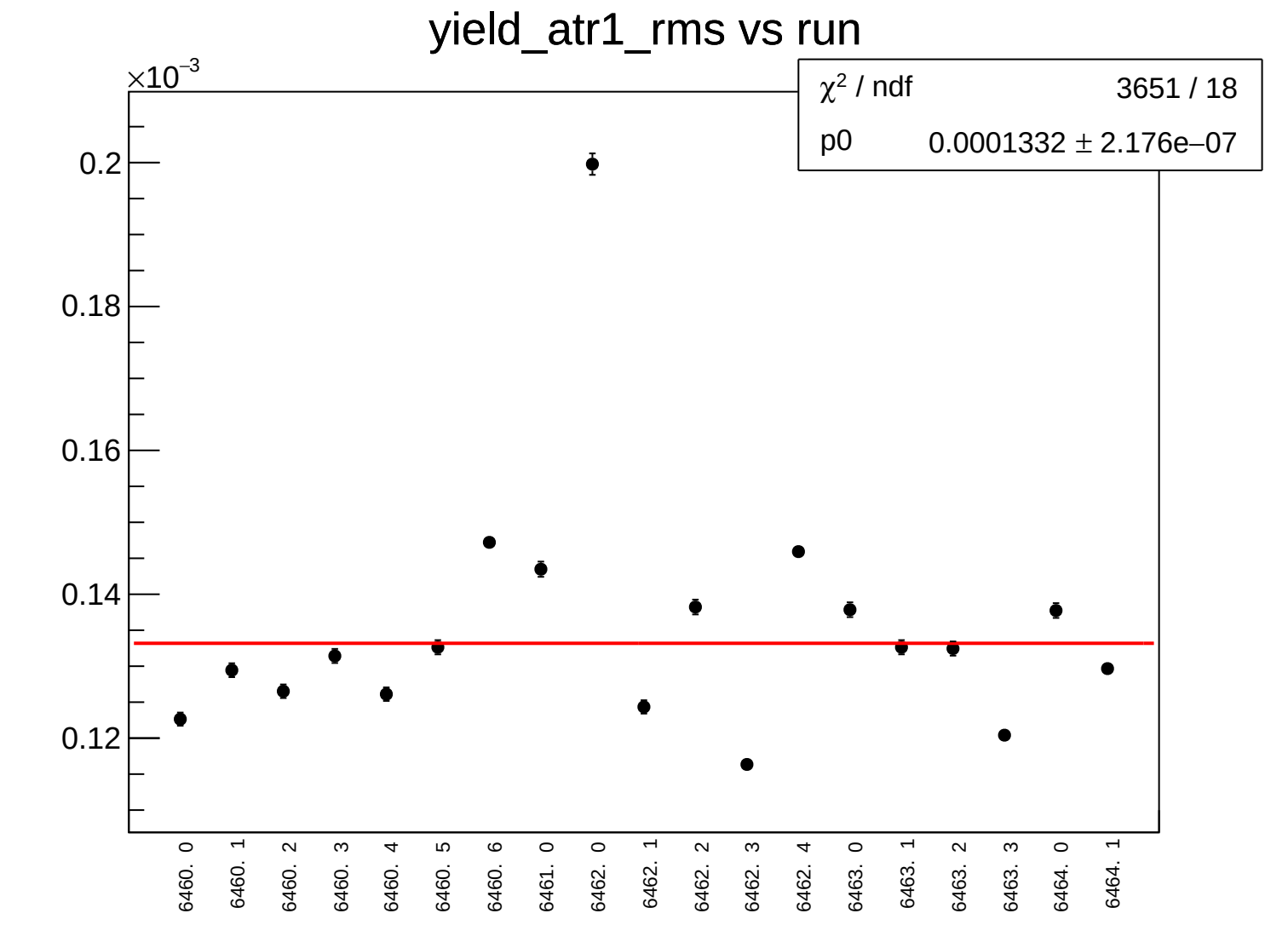

pull
Entries 19
Mean −48.4
Std Dev 59.04
100
50
0
−50
−100

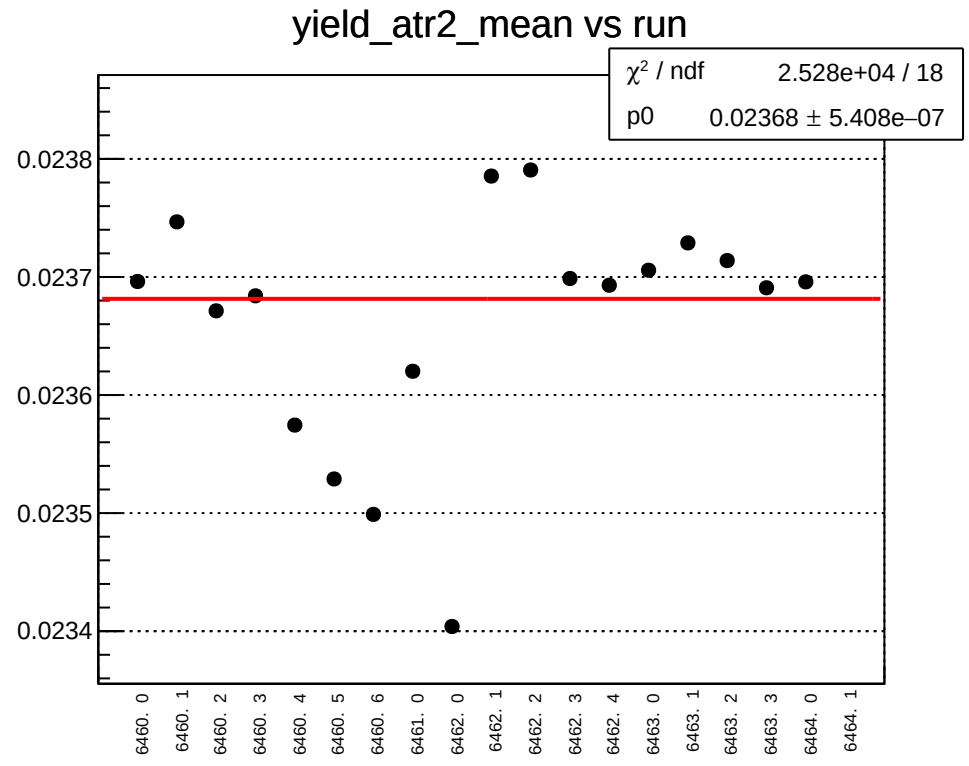

pull1D
Entries 19
Mean 1.109
Std Dev 5.898
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

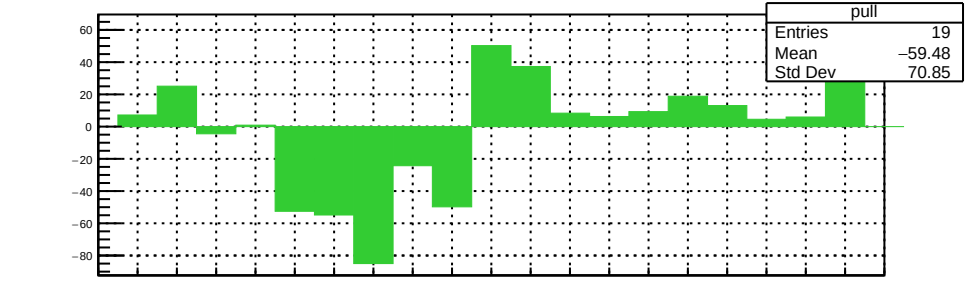

yield_atl2_rms vs run
×10⁻³
χ² / ndf 1.29e+04 / 18
p0 0.0002544 ± 4.209e−07
0.6
0.5
0.4
0.3
0.2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

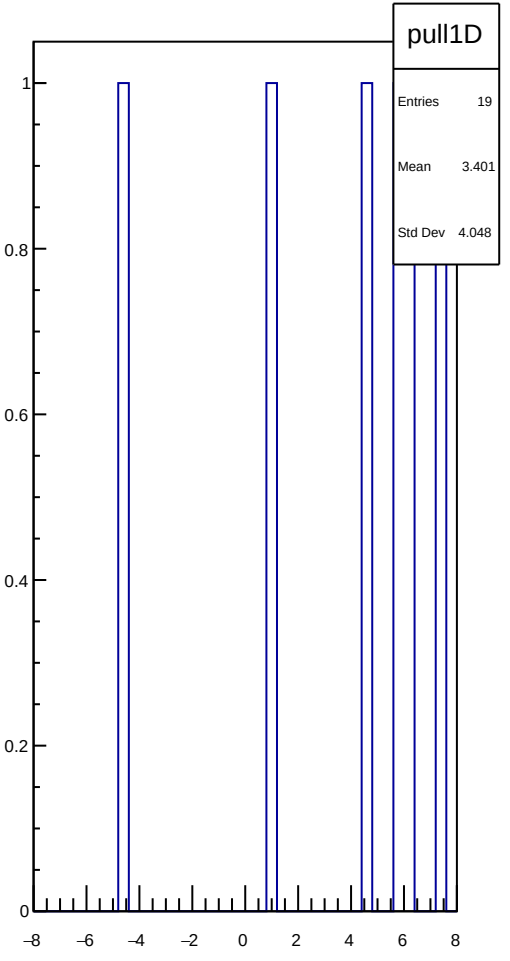

yield_atr1_mean vs run
χ² / ndf 7.003e+04 / 18
p0 0.03775 ± 3.077e−07
0.038
0.03795
0.0379
0.03785
0.0378
0.03775
0.0377
0.03765
0.0376
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 249.4
Std Dev 239.7
150
100
50
0
−50
−100

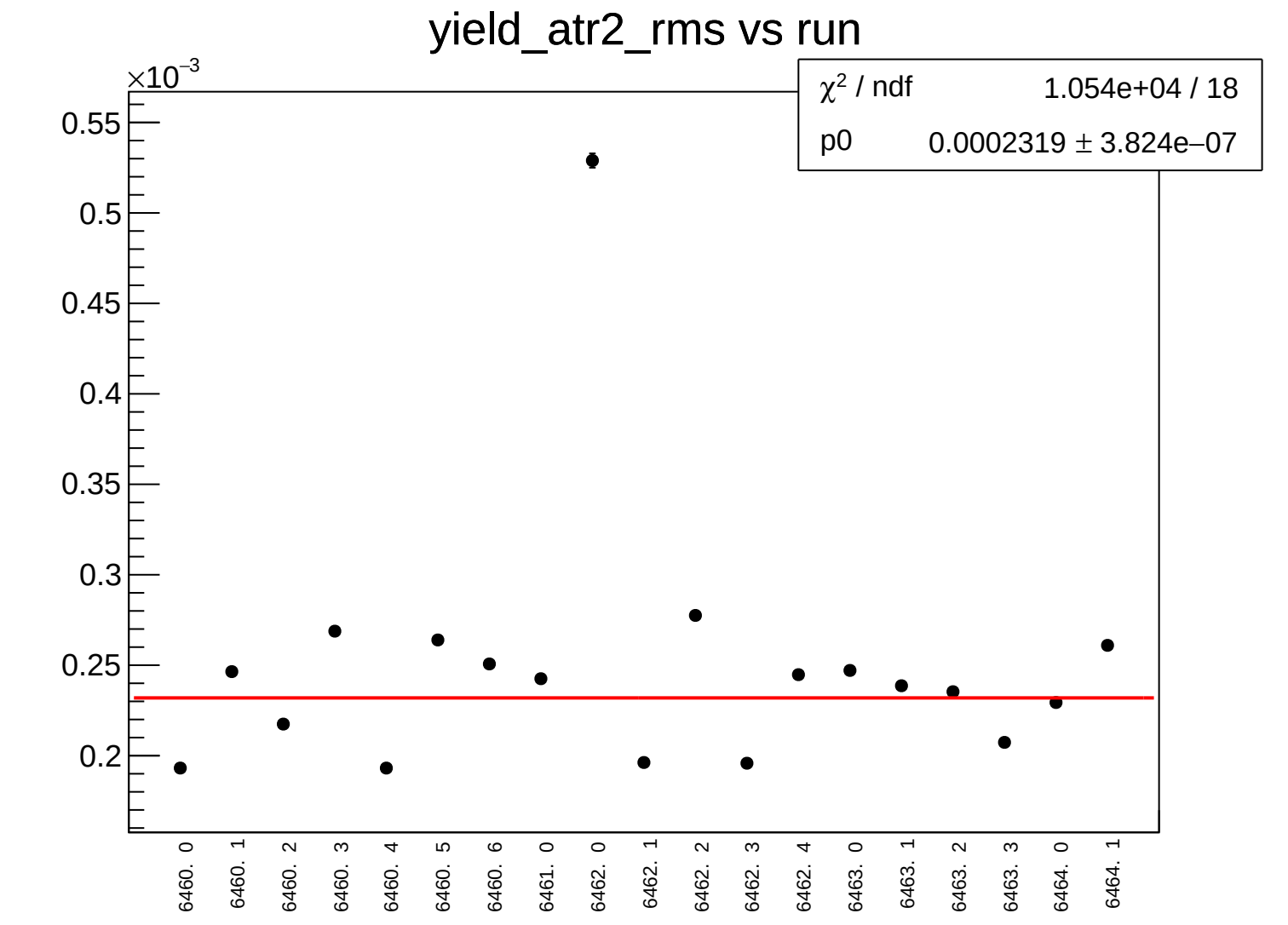

pull1D
Entries 19
Mean −4.11
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

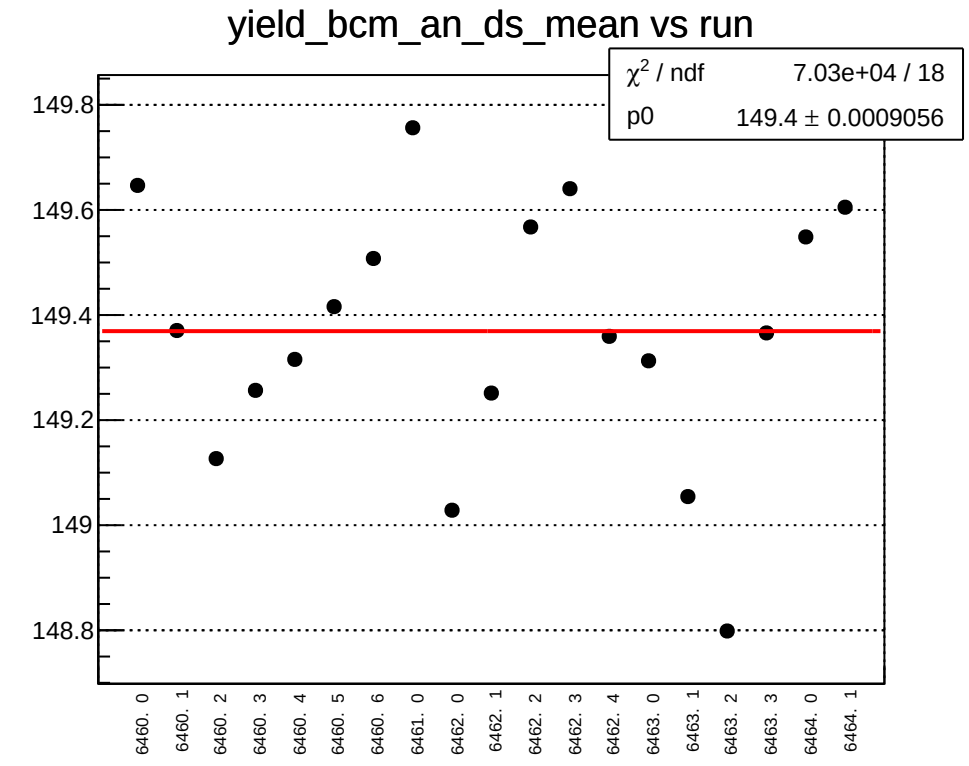

yield_atr1_rms vs run
×10⁻³
χ² / ndf 3651 / 18
p0 0.0001332 ± 2.176e−07
0.2
0.18
0.16
0.14
0.12
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

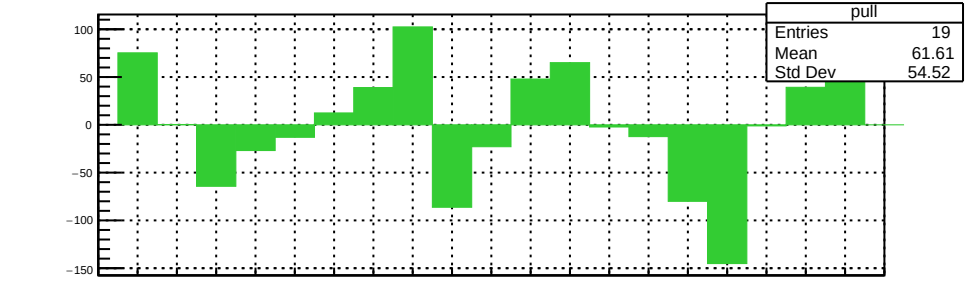

yield_atr2_mean vs run
χ² / ndf 2.528e+04 / 18
p0 0.02368 ± 5.408e−07
0.0238
0.0237
0.0236
0.0235
0.0234
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

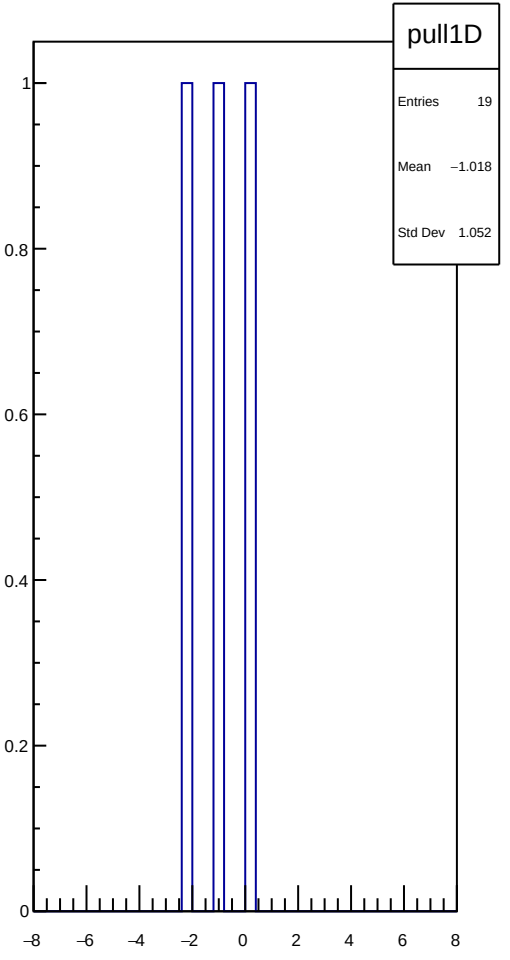

pull
Entries 19
Mean −59.48
Std Dev 70.85
60
40
20
0
−20
−40
−60
−80

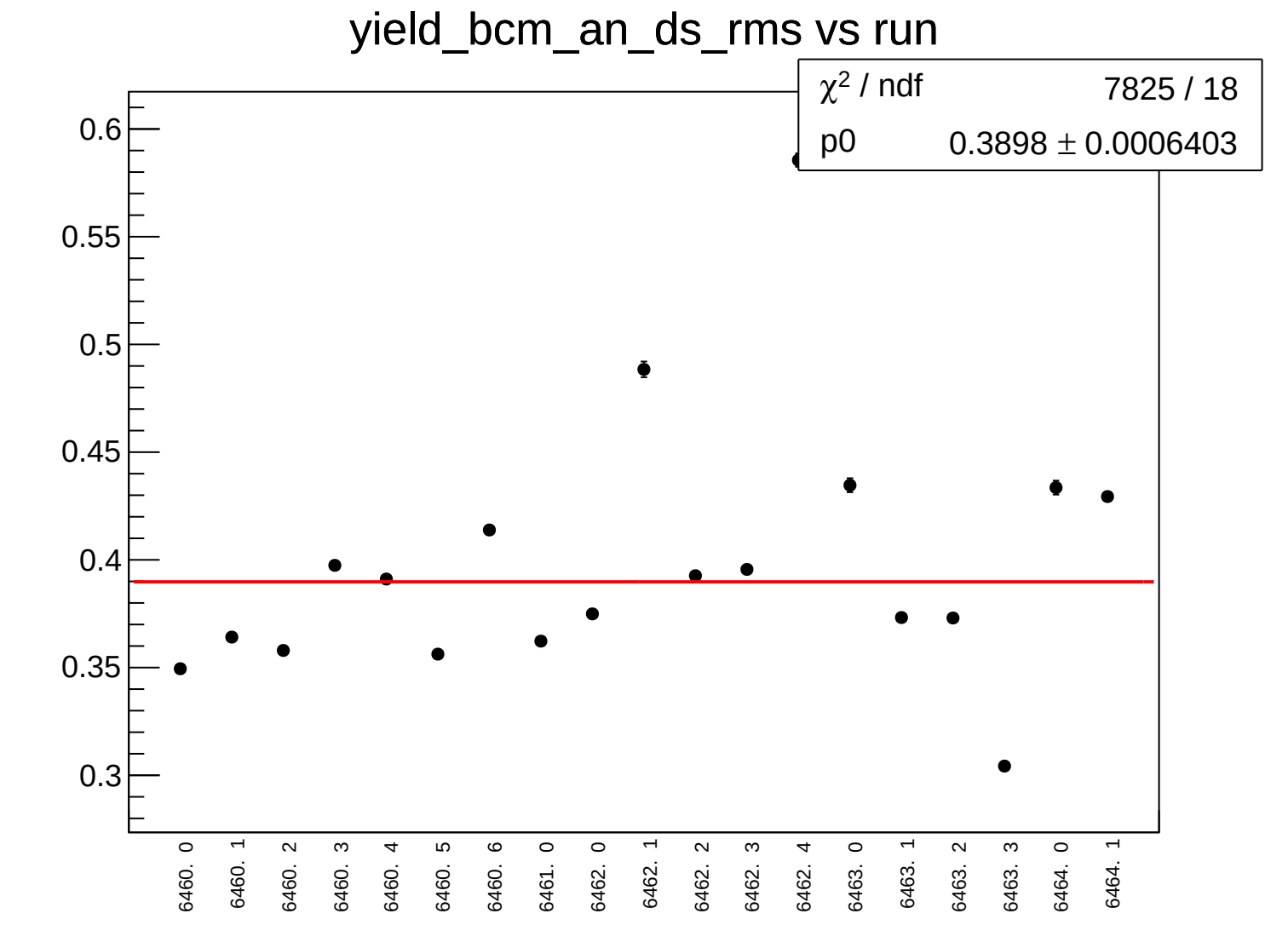

pull1D
Entries 19
Mean 3.401
Std Dev 4.048
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

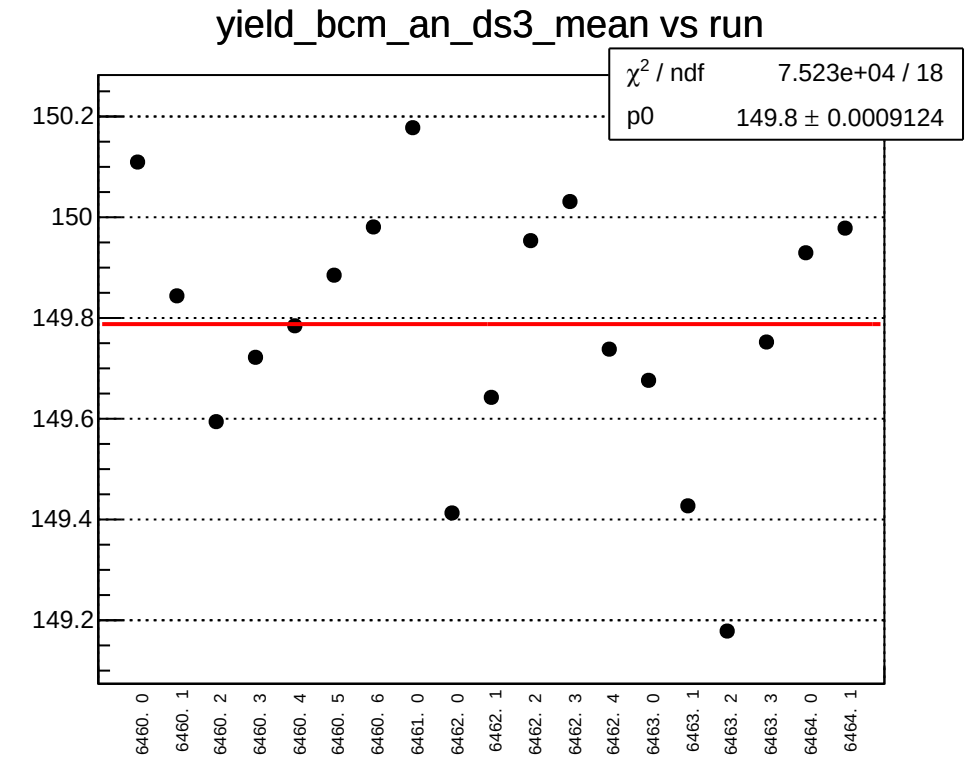

yield_atr2_rms vs run
×10⁻³
χ² / ndf 1.054e+04 / 18
p0 0.0002319 ± 3.824e−07
0.55
0.5
0.45
0.4
0.35
0.3
0.25
0.2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

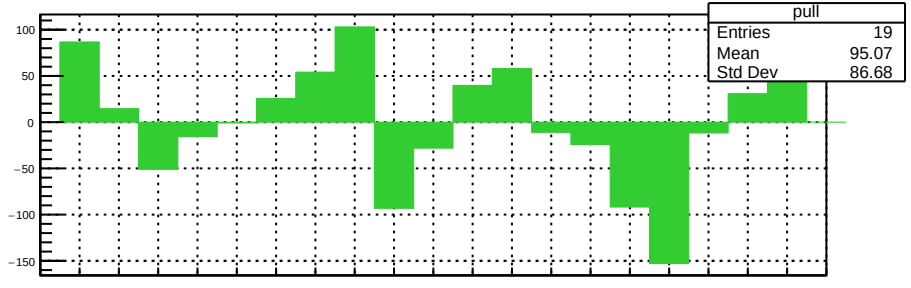

yield_bcm_an_ds_mean vs run
χ² / ndf 7.03e+04 / 18
p0 149.4 ± 0.0009056
149.8
149.6
149.4
149.2
149
148.8
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

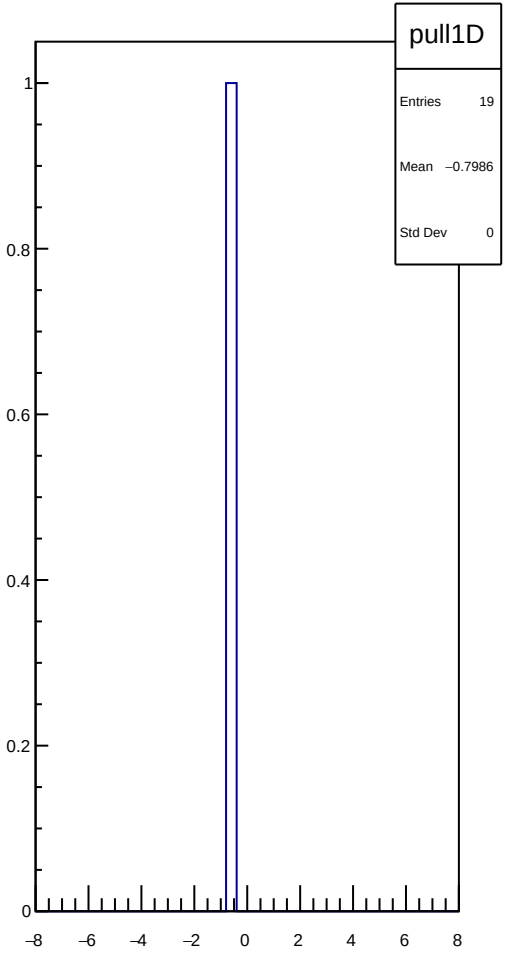

pull
Entries 19
Mean 61.61
Std Dev 54.52
100
50
0
−50
−100
−150

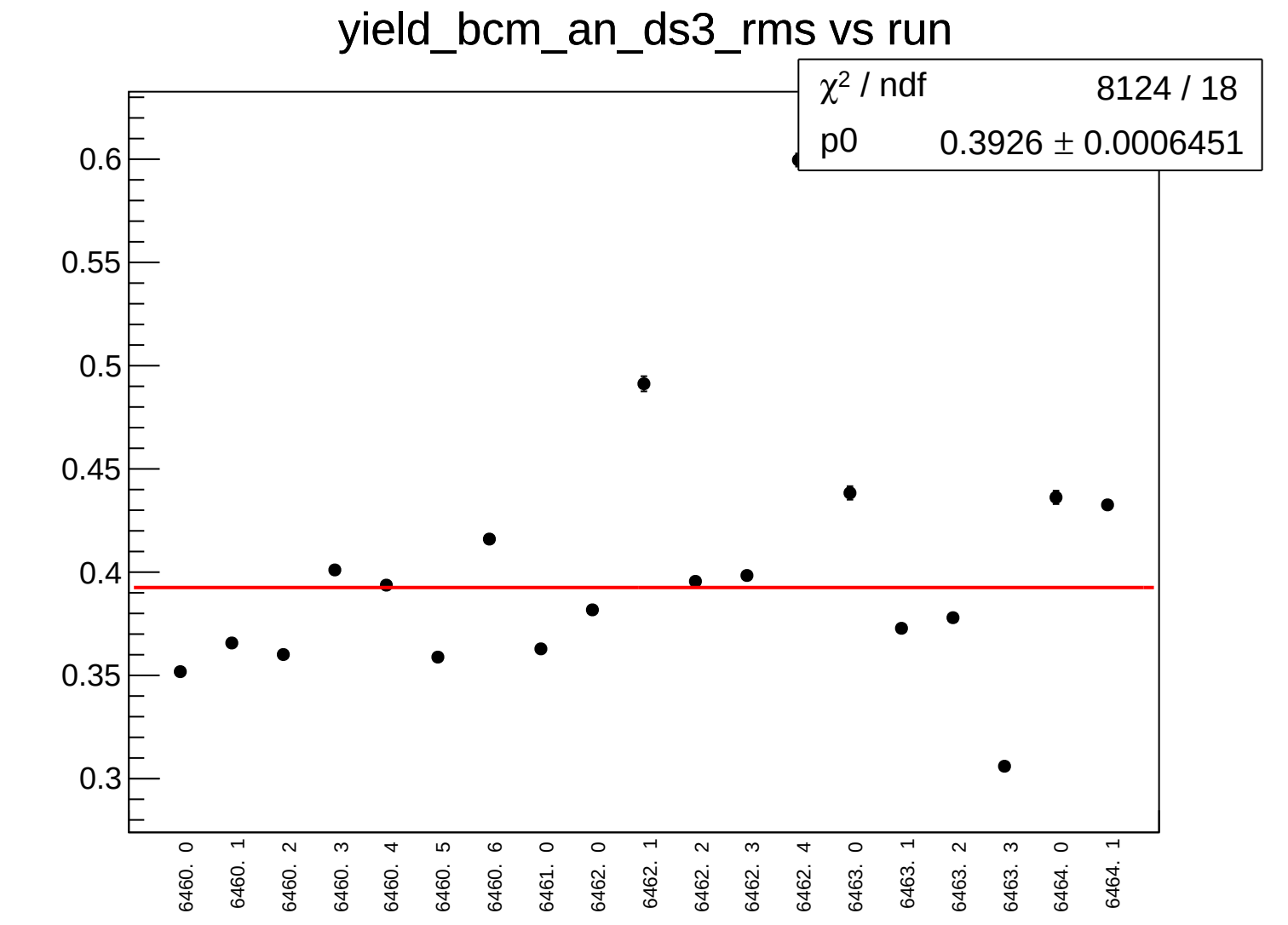

pull1D
Entries 19
Mean −1.018
Std Dev 1.052
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

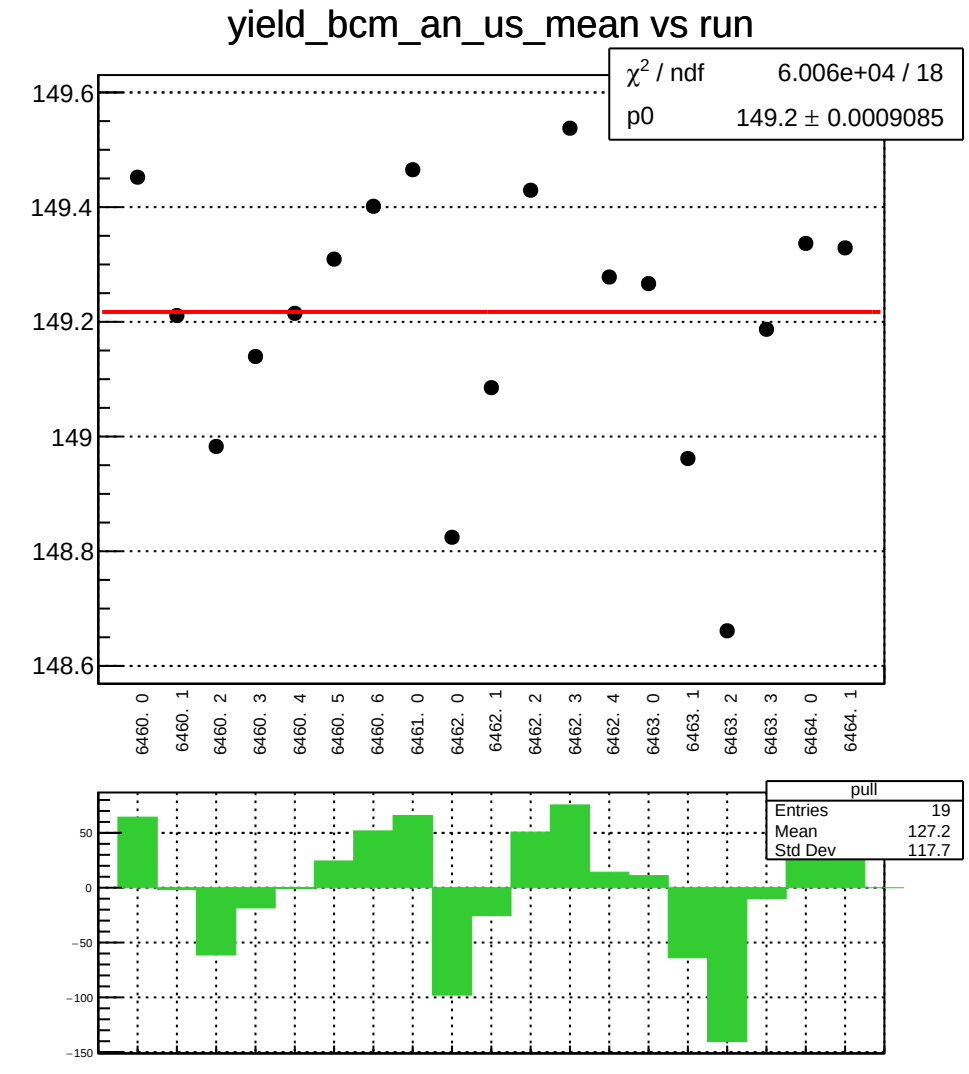

yield_bcm_an_ds_rms vs run
χ² / ndf 7825 / 18
p0 0.3898 ± 0.0006403
0.6
0.55
0.5
0.45
0.4
0.35
0.3
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

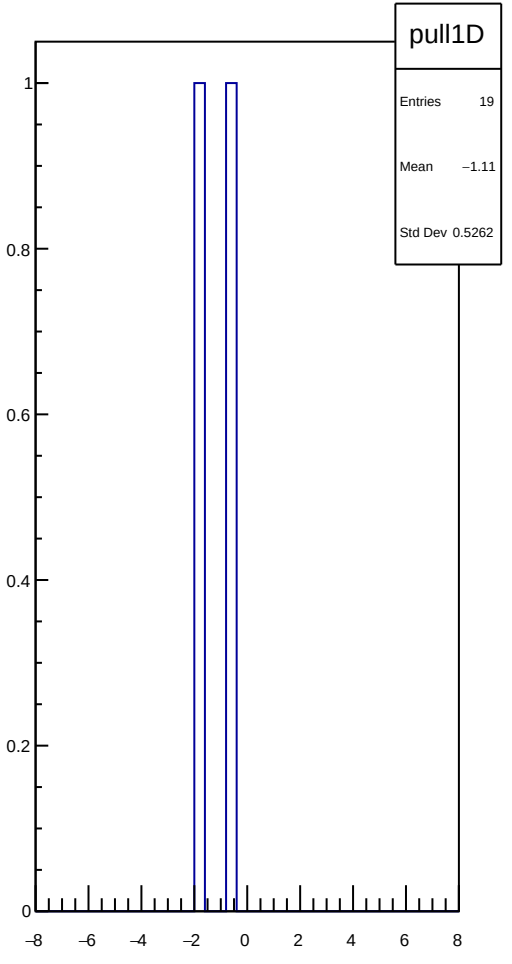

yield_bcm_an_ds3_mean vs run
χ² / ndf 7.523e+04 / 18
p0 149.8 ± 0.0009124
150.2
150
149.8
149.6
149.4
149.2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

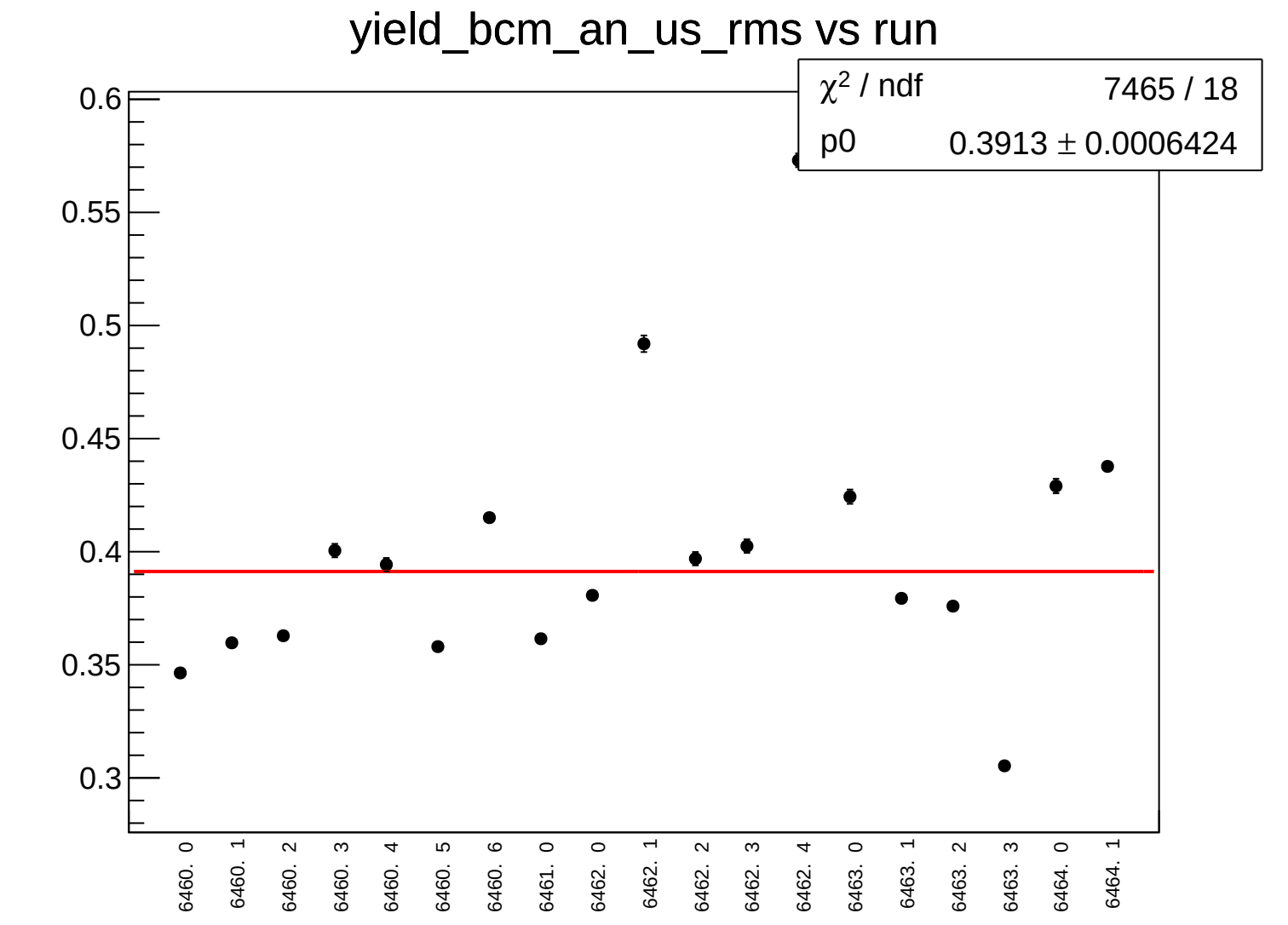

pull
Entries 19
Mean 95.07
Std Dev 86.68
100
50
0
−50
−100
−150

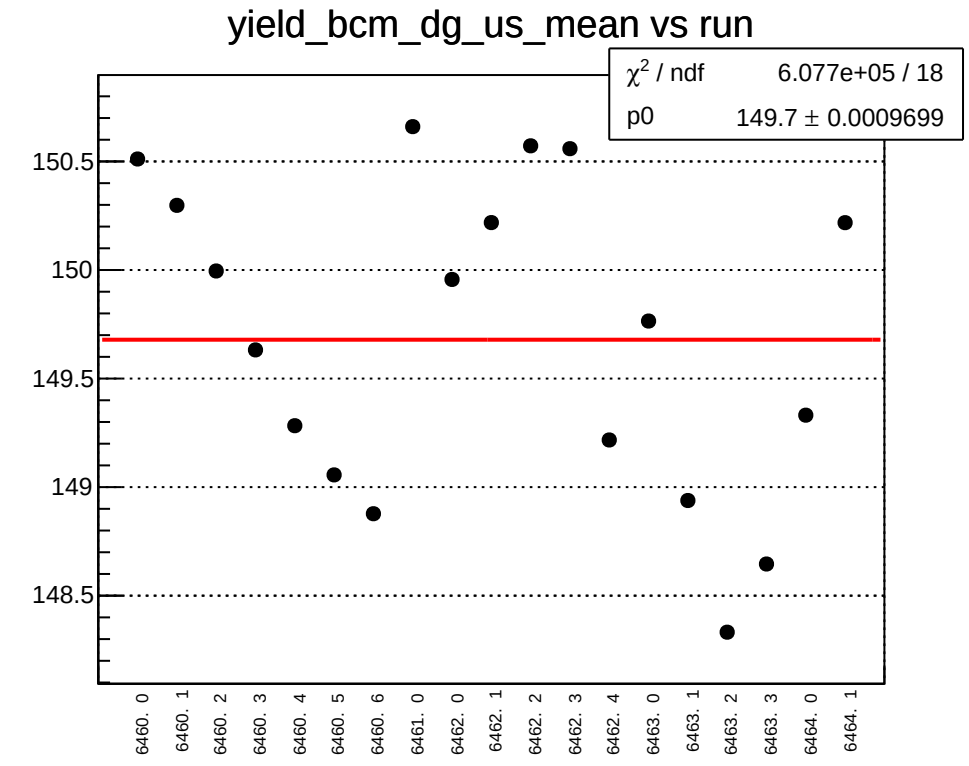

pull1D
Entries 19
Mean −0.7986
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

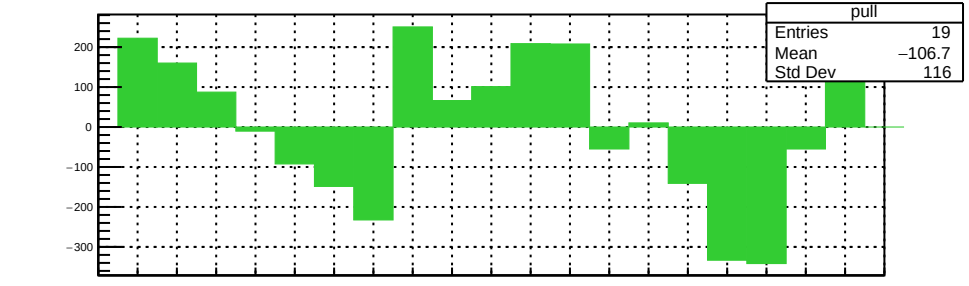

yield_bcm_an_ds3_rms vs run
χ² / ndf 8124 / 18
p0 0.3926 ± 0.0006451
0.6
0.55
0.5
0.45
0.4
0.35
0.3
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

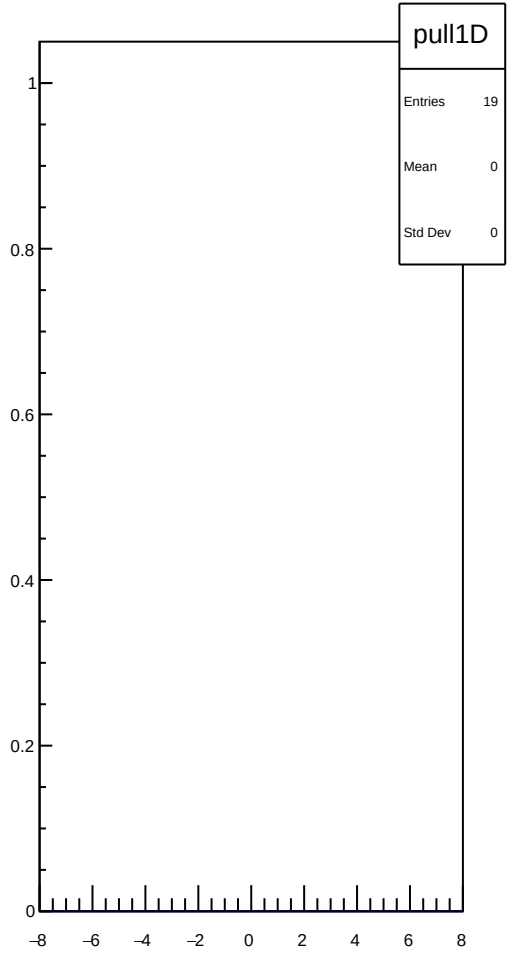

yield_bcm_an_us_mean vs run
χ² / ndf 6.006e+04 / 18
p0 149.2 ± 0.0009085
149.6
149.4
149.2
149
148.8
148.6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 127.2
Std Dev 117.7
50
0
−50
−100
−150

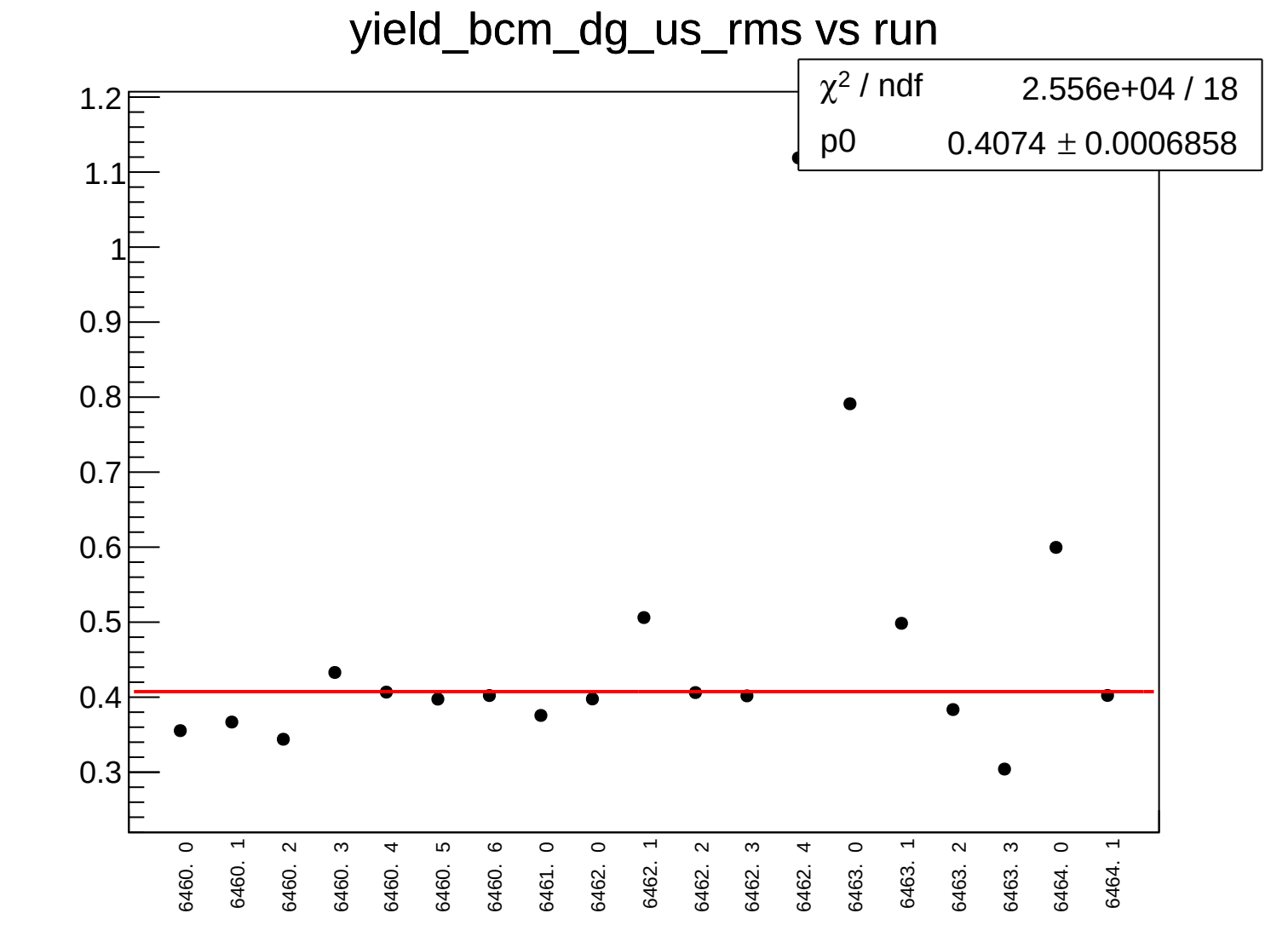

pull1D
Entries 19
Mean −1.11
Std Dev 0.5262
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

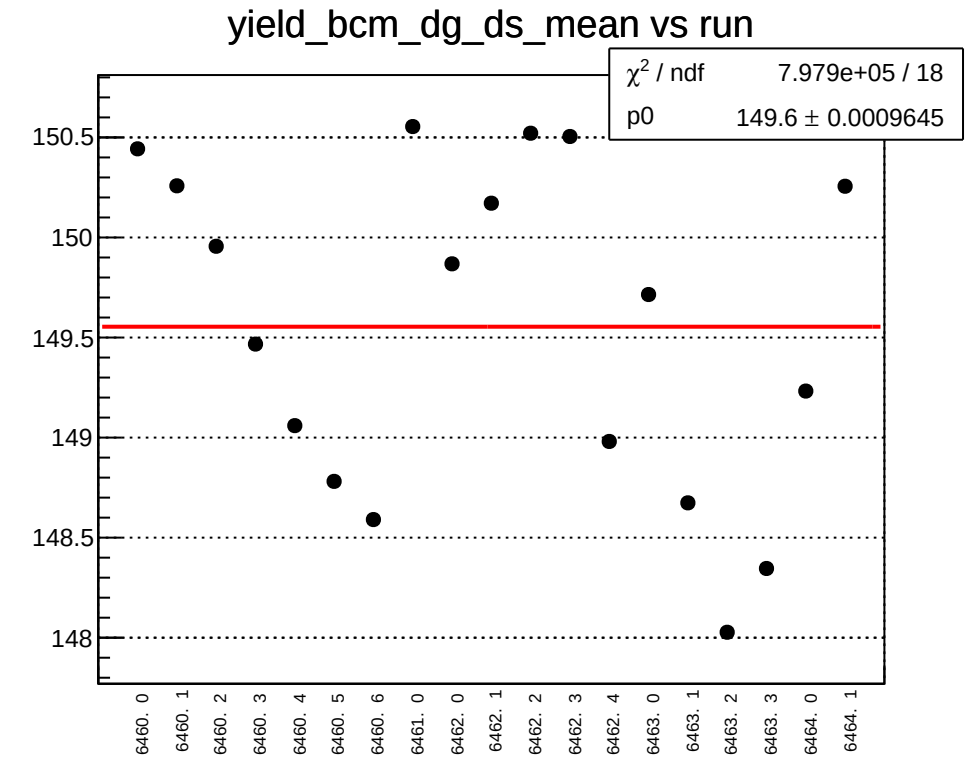

yield_bcm_an_us_rms vs run
χ² / ndf 7465 / 18
p0 0.3913 ± 0.0006424
0.6
0.55
0.5
0.45
0.4
0.35
0.3
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

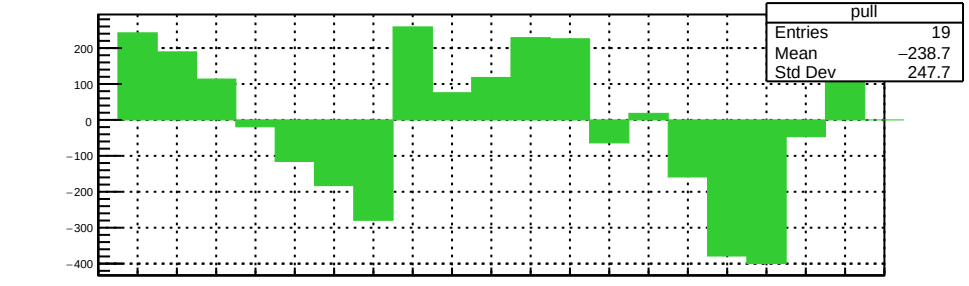

yield_bcm_dg_us_mean vs run
χ² / ndf 6.077e+05 / 18
p0 149.7 ± 0.0009699
150.5
150
149.5
149
148.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

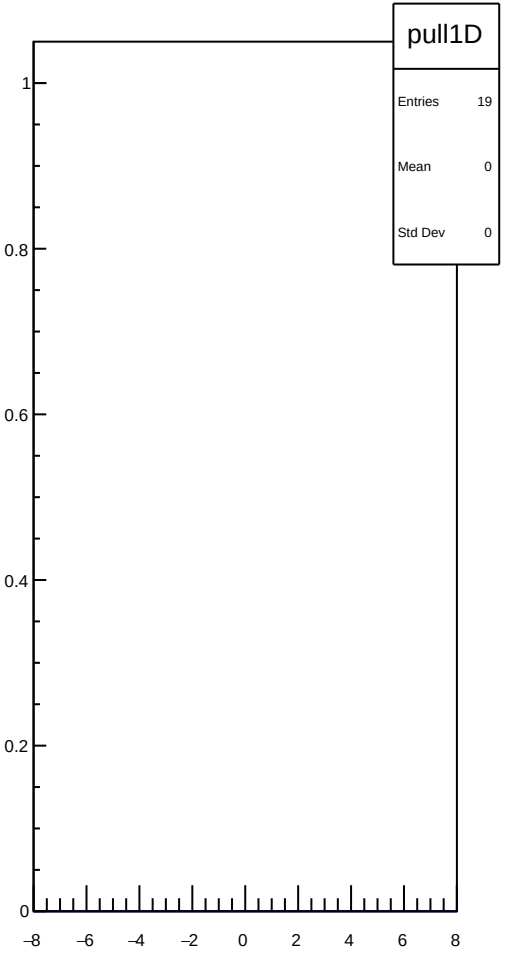

pull
Entries 19
Mean −106.7
Std Dev 116
200
100
0
−100
−200
−300

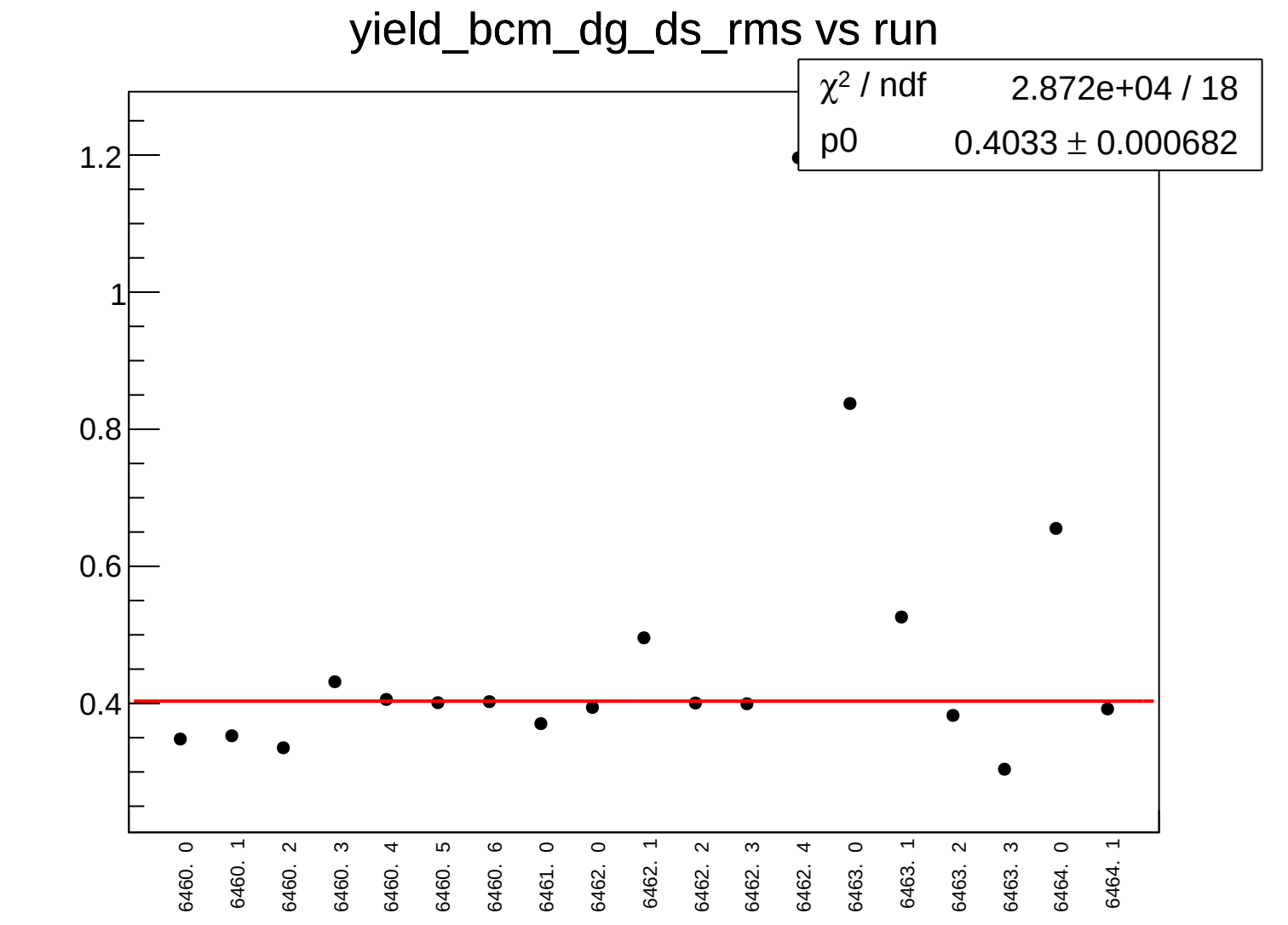

pull1D
Entries 19
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

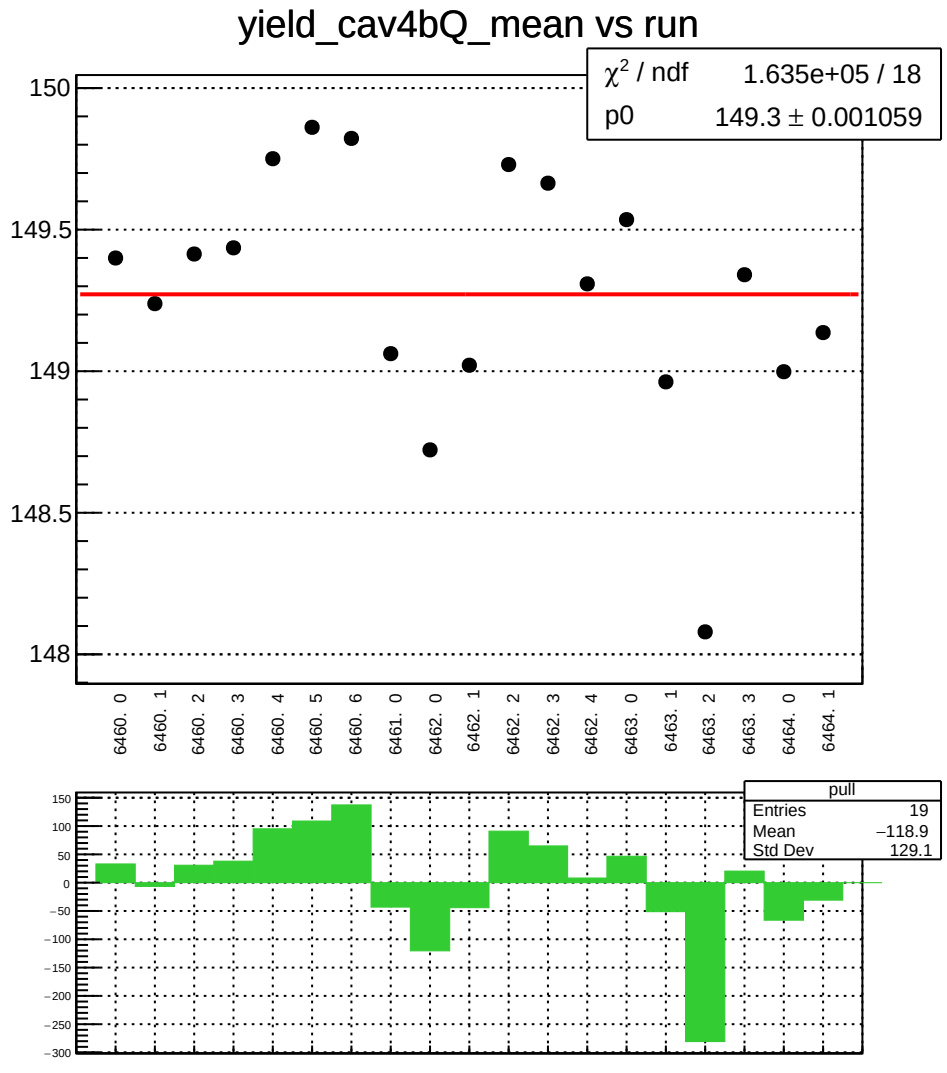

yield_bcm_dg_us_rms vs run
χ² / ndf 2.556e+04 / 18
p0 0.4074 ± 0.0006858
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

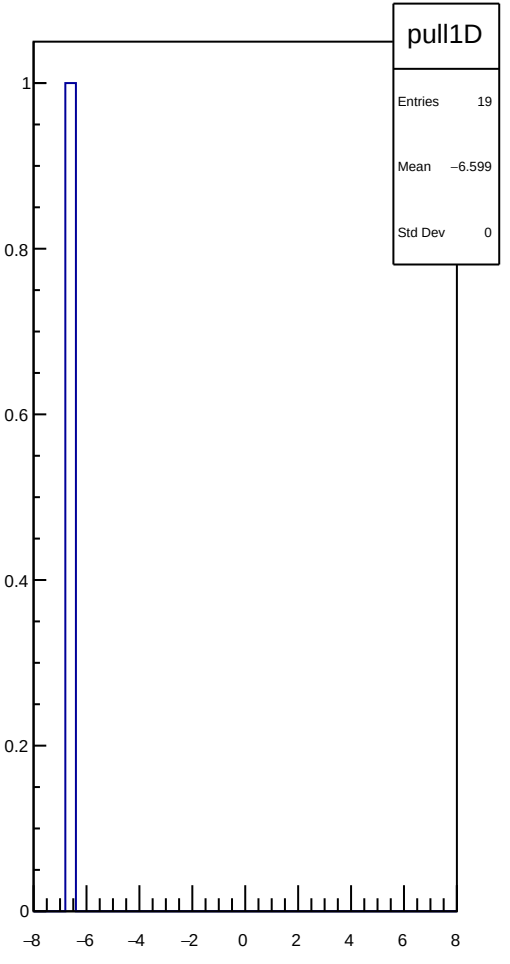

yield_bcm_dg_ds_mean vs run
χ² / ndf 7.979e+05 / 18
p0 149.6 ± 0.0009645
150.5
150
149.5
149
148.5
148
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

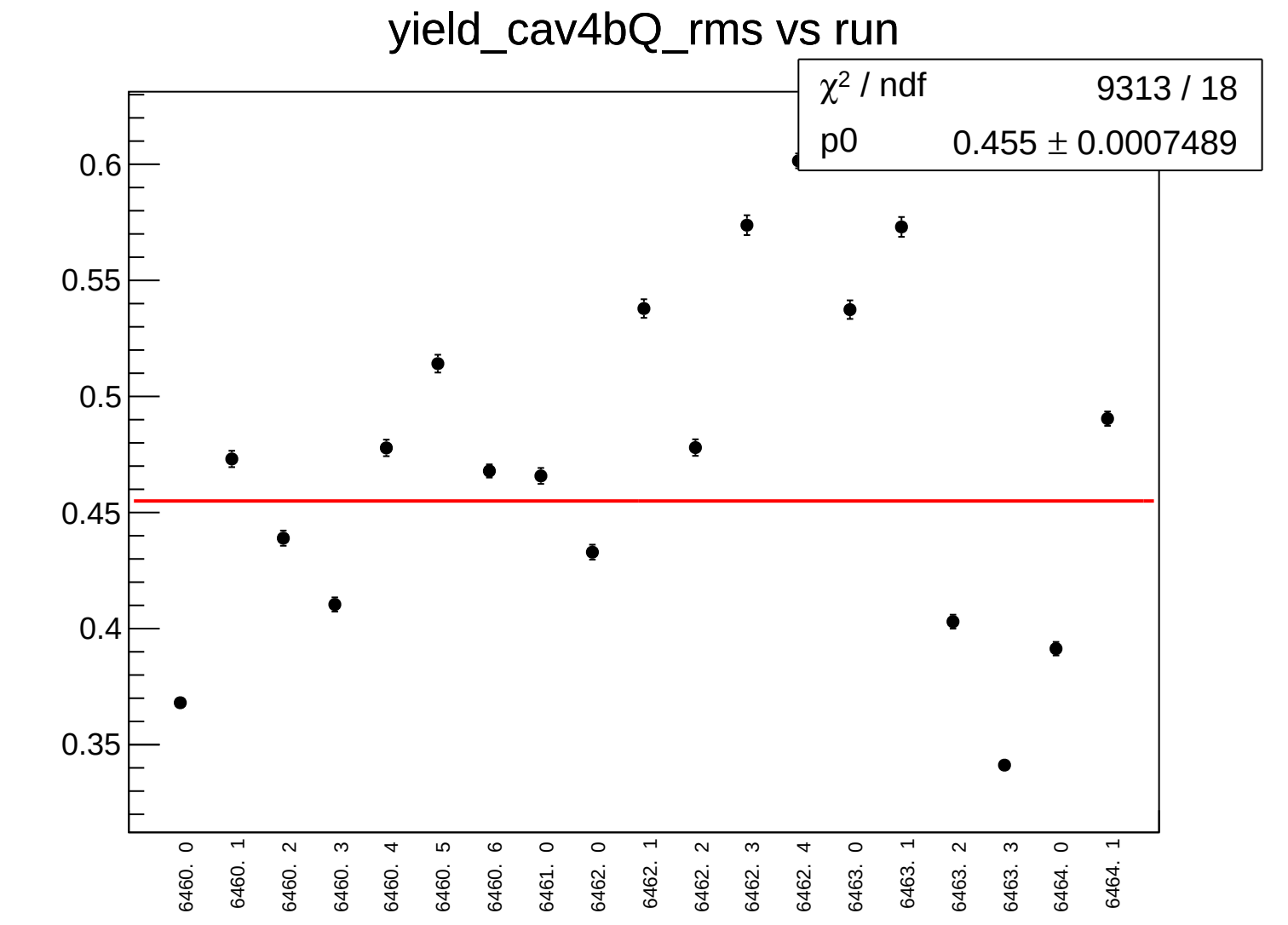

pull
Entries 19
Mean −238.7
Std Dev 247.7
200
100
0
−100
−200
−300
−400

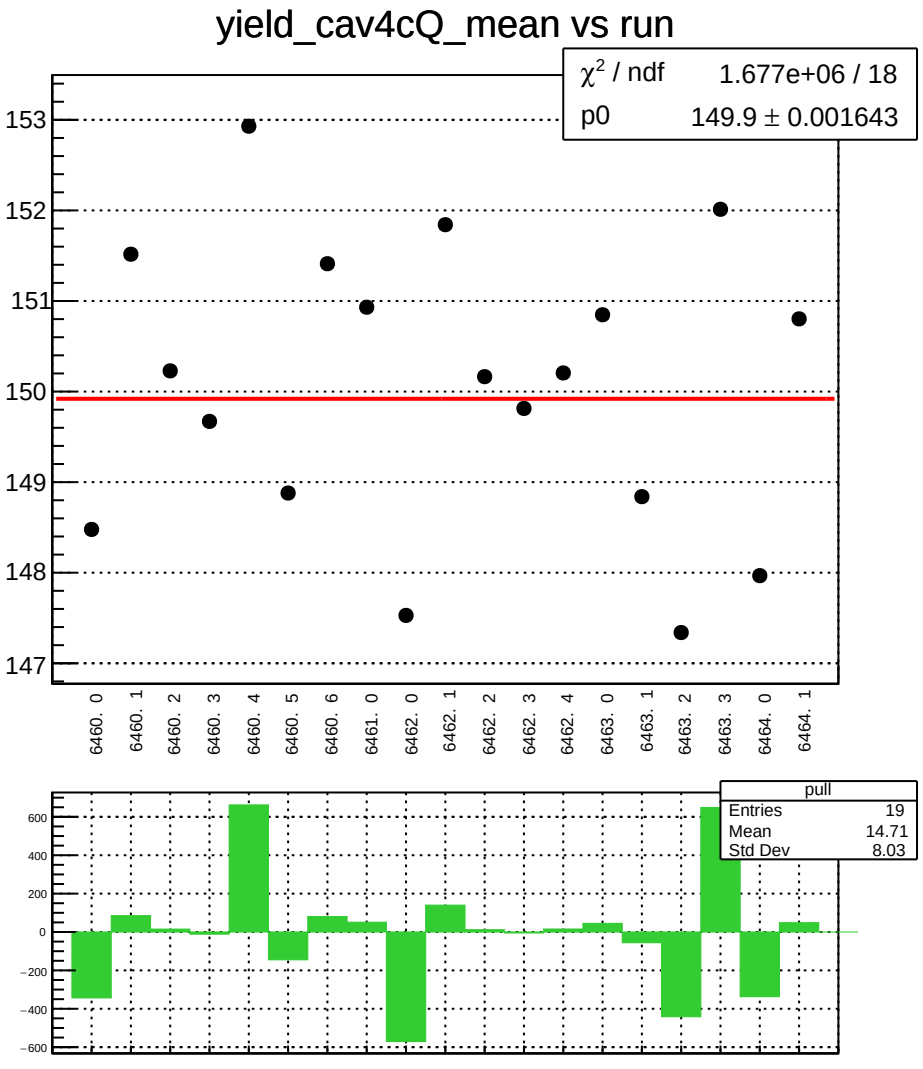

pull1D
Entries 19
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

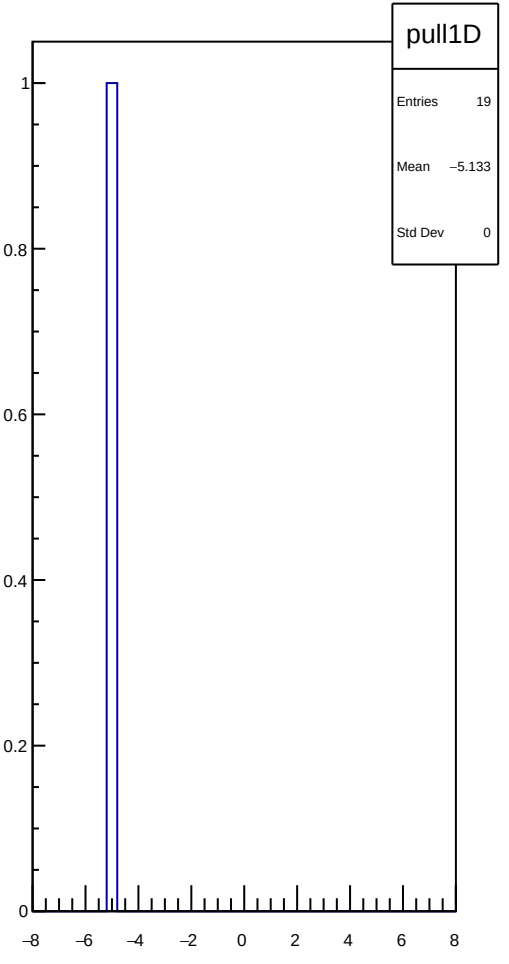

yield_bcm_dg_ds_rms vs run
χ² / ndf 2.872e+04 / 18
p0 0.4033 ± 0.000682
1.2
1
0.8
0.6
0.4
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

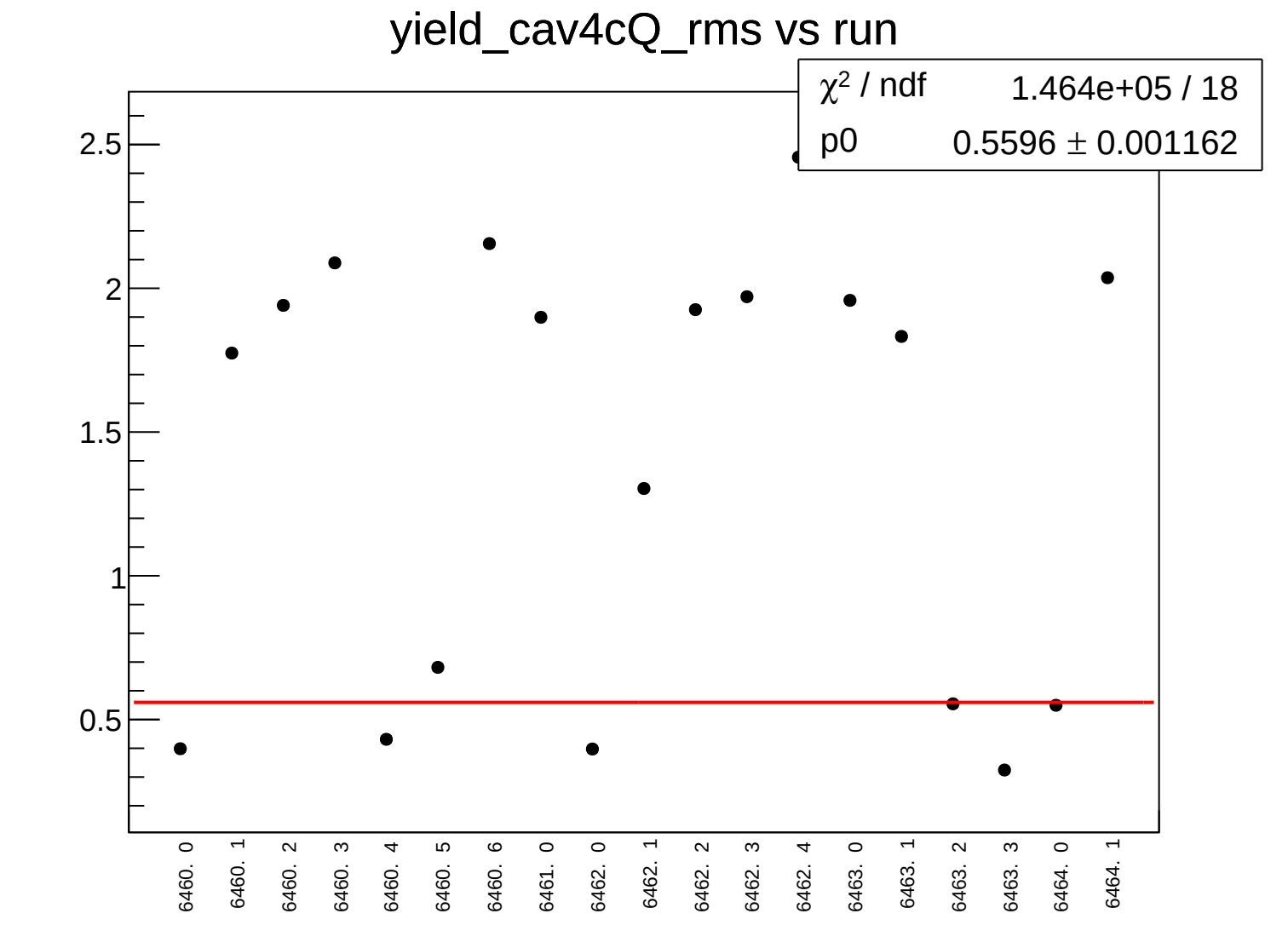

yield_cav4bQ_mean vs run
χ² / ndf 1.635e+05 / 18
p0 149.3 ± 0.001059
150
149.5
149
148.5
148
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −118.9
Std Dev 129.1
150
100
50
0
−50
−100
−150
−200
−250
−300

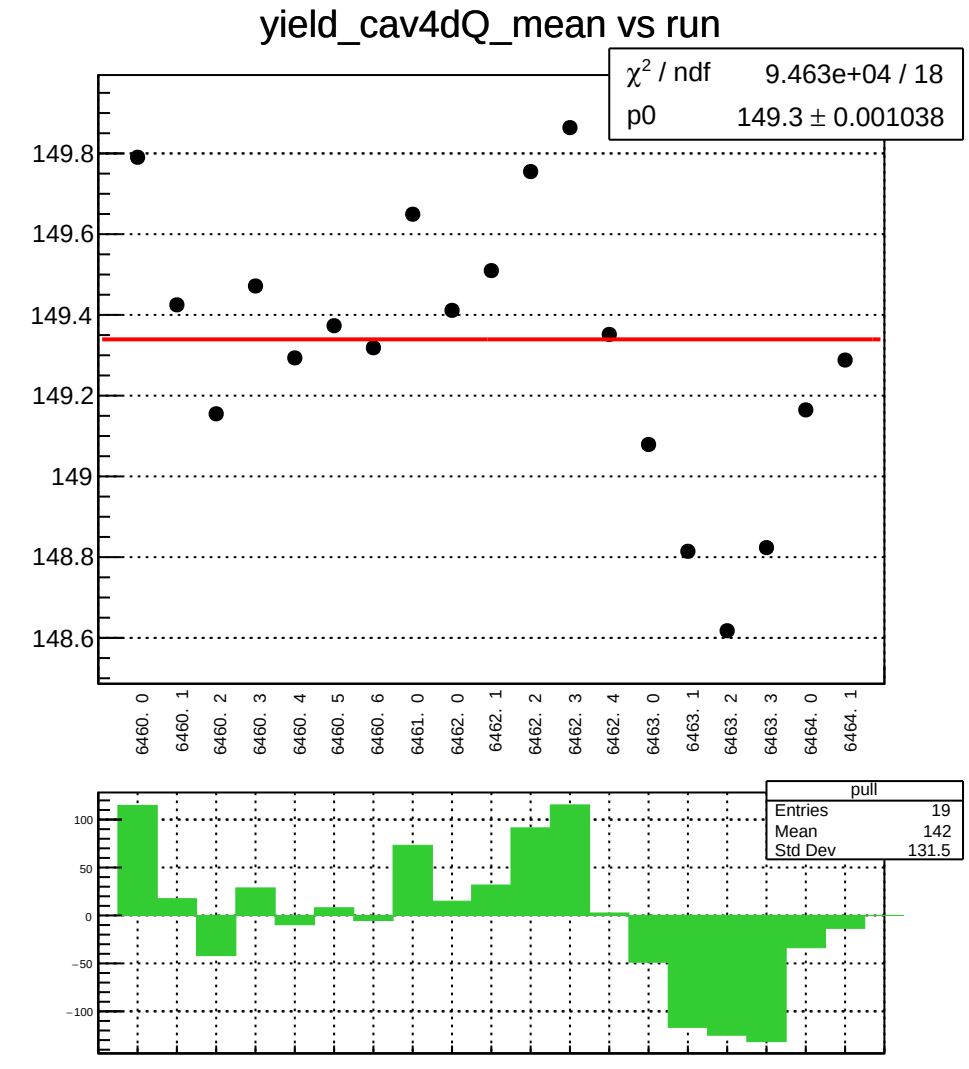

pull1D
Entries 19
Mean −6.599
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

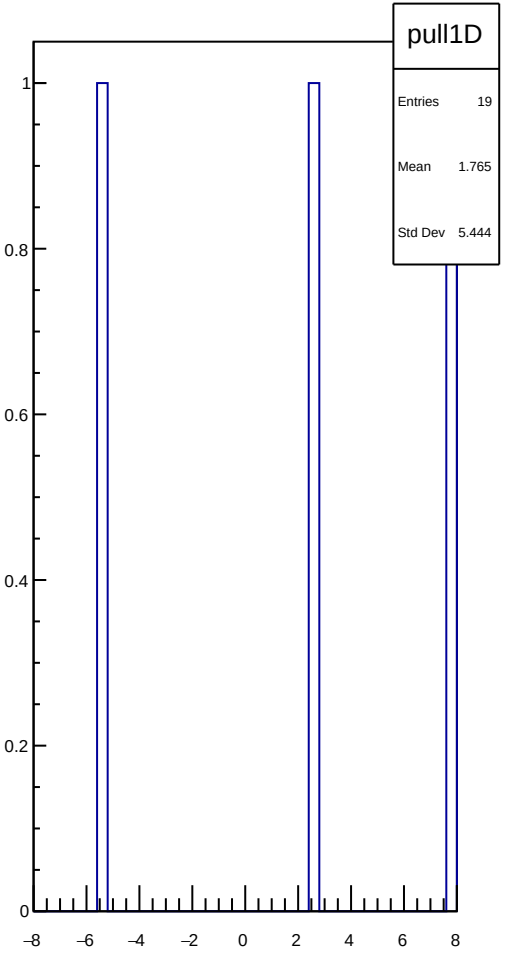

yield_cav4bQ_rms vs run
χ² / ndf 9313 / 18
p0 0.455 ± 0.0007489
0.6
0.55
0.5
0.45
0.4
0.35
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

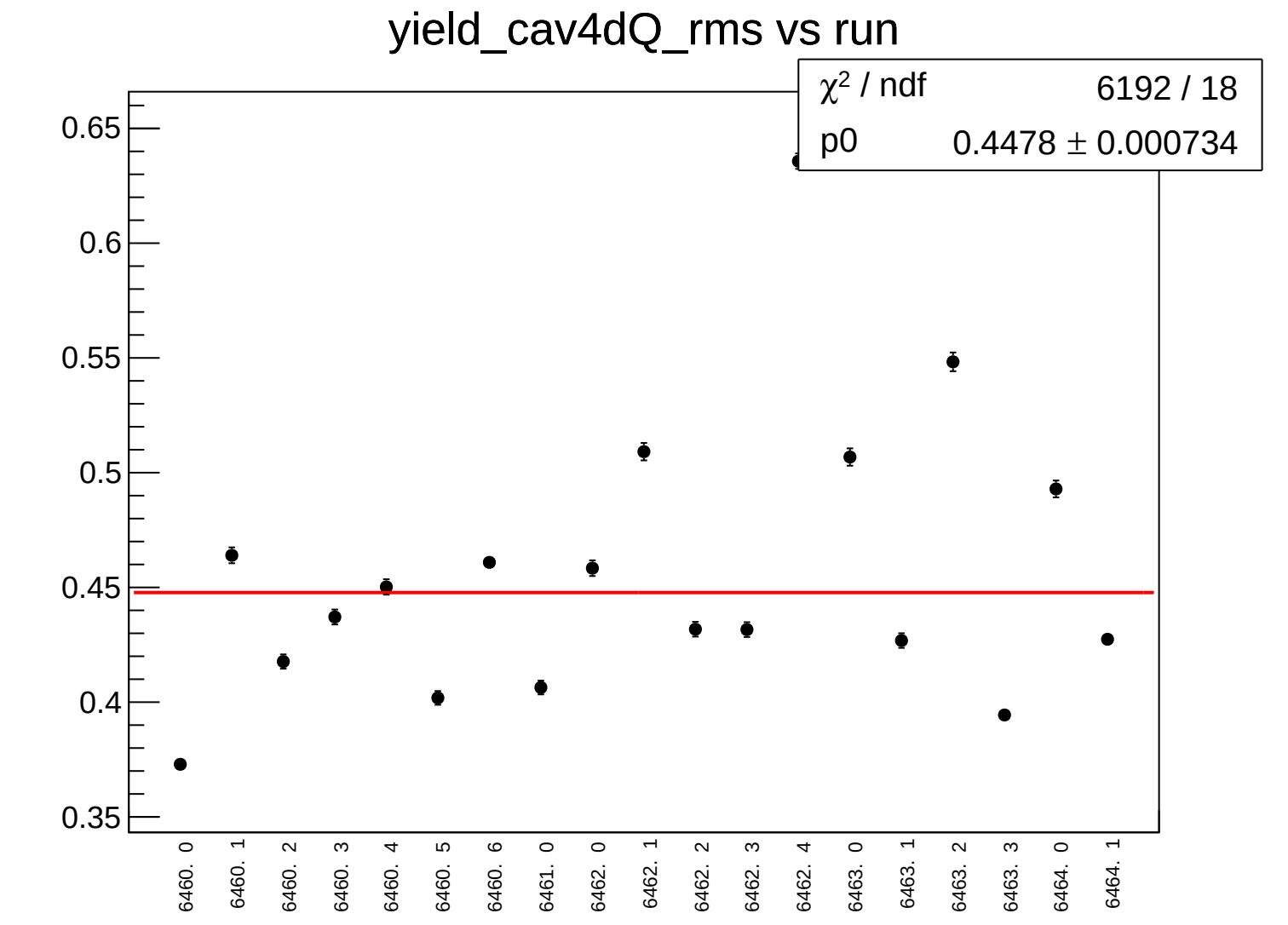

yield_cav4cQ_mean vs run
χ² / ndf 1.677e+06 / 18
p0 149.9 ± 0.001643
153
152
151
150
149
148
147
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 14.71
Std Dev 8.03
600
400
200
0
−200
−400
−600

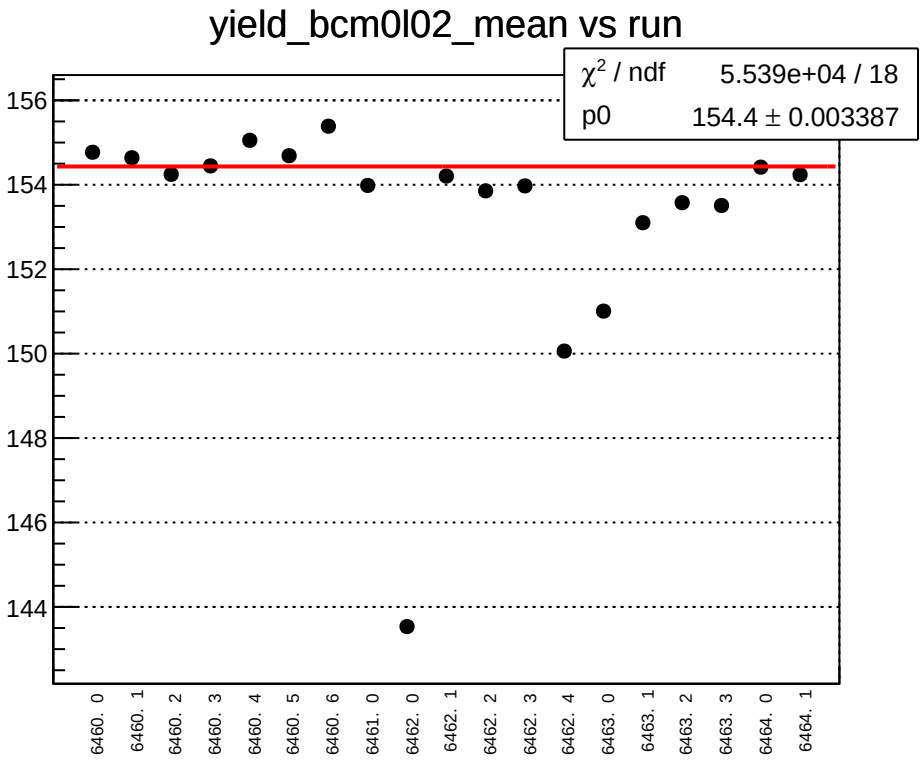

pull1D
Entries 19
Mean −5.133
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

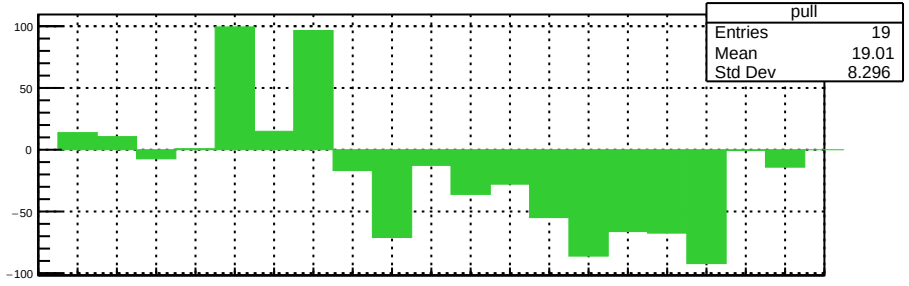

yield_cav4cQ_rms vs run
χ² / ndf 1.464e+05 / 18
p0 0.5596 ± 0.001162
2.5
2
1.5
1
0.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

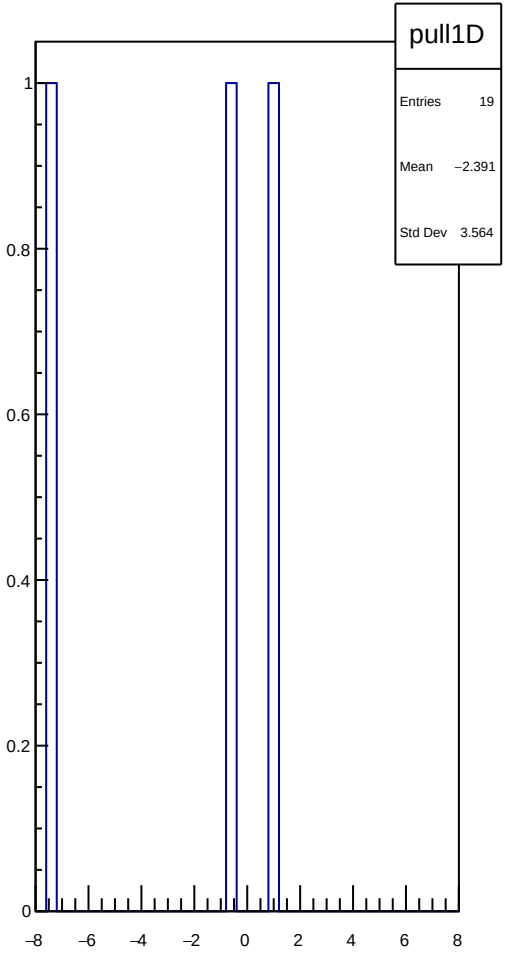

yield_cav4dQ_mean vs run
χ² / ndf 9.463e+04 / 18
p0 149.3 ± 0.001038
149.8
149.6
149.4
149.2
149
148.8
148.6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 142
Std Dev 131.5
100
50
0
−50
−100

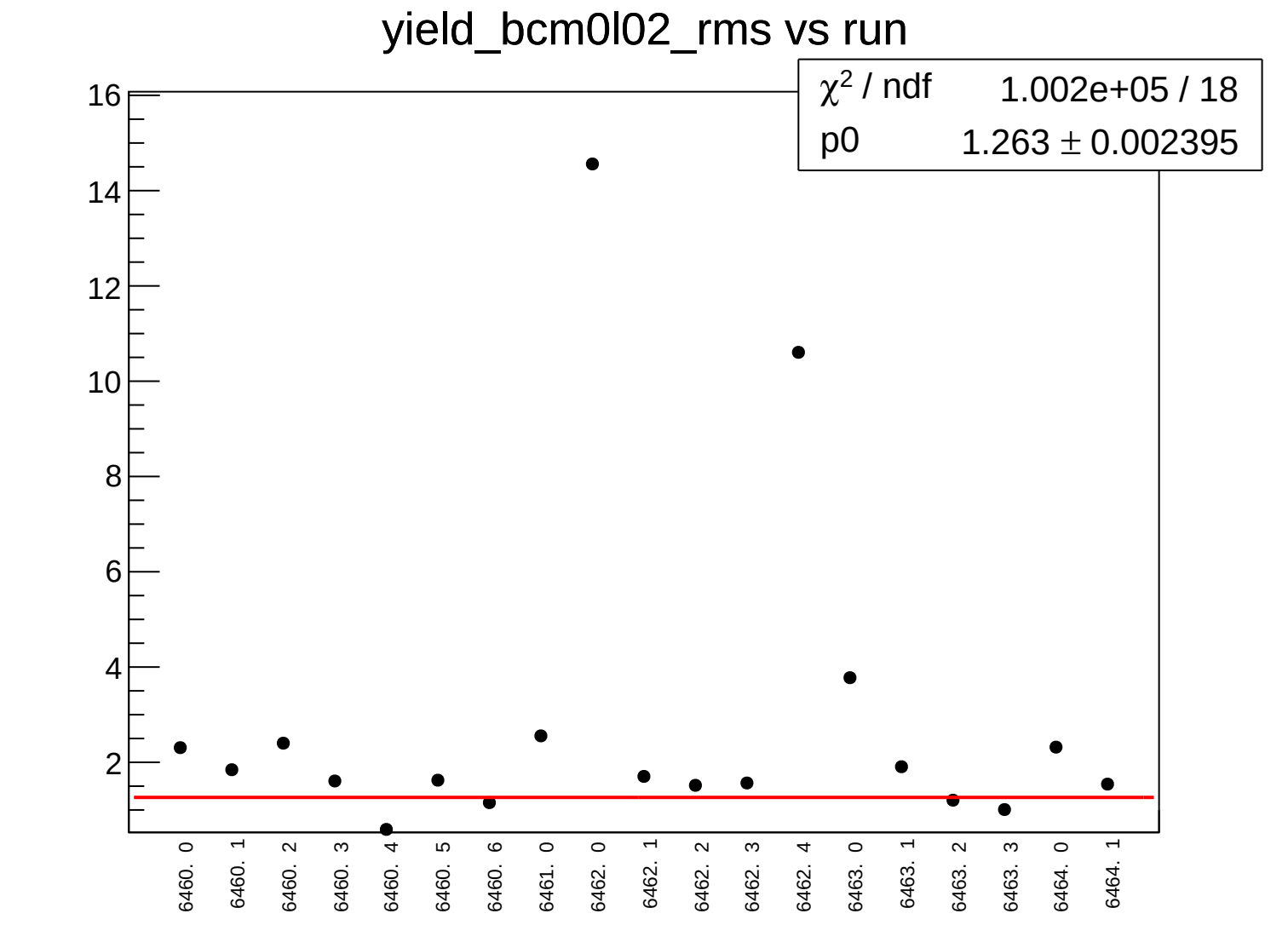

pull1D
Entries 19
Mean 1.765
Std Dev 5.444
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

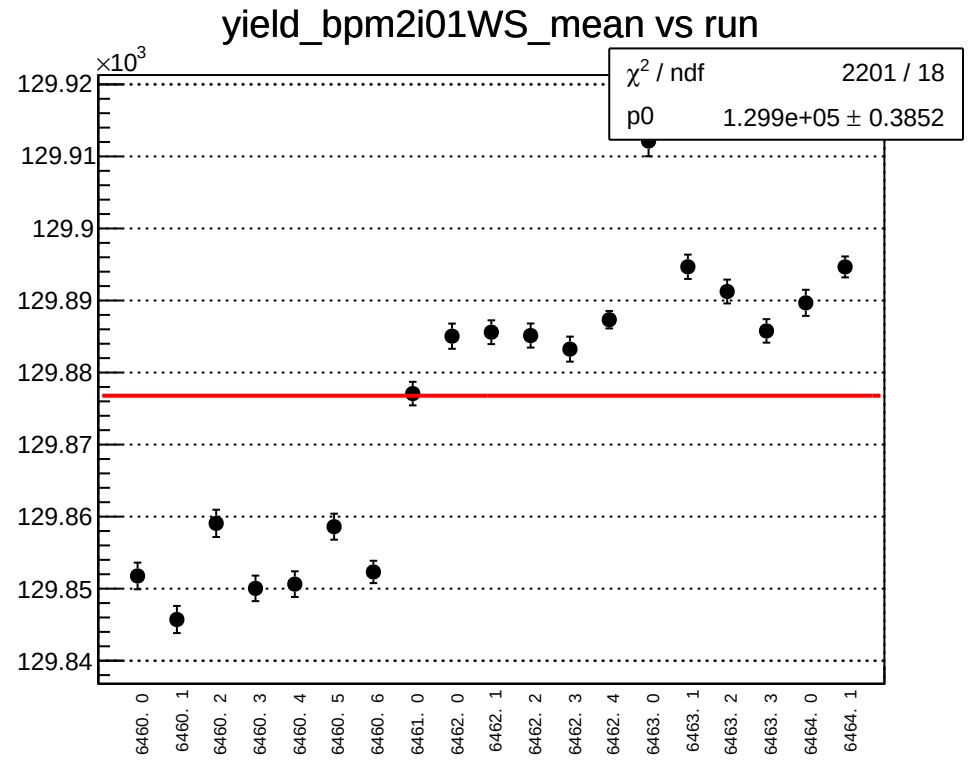

yield_cav4dQ_rms vs run
χ² / ndf 6192 / 18
p0 0.4478 ± 0.000734
0.65
0.6
0.55
0.5
0.45
0.4
0.35
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

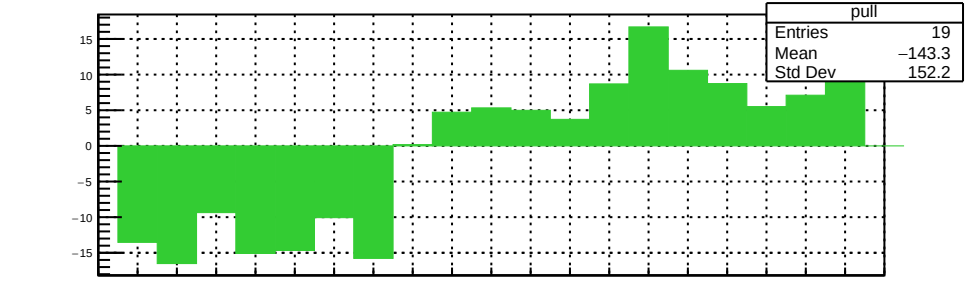

yield_bcm0l02_mean vs run
χ² / ndf 5.539e+04 / 18
p0 154.4 ± 0.003387
156
154
152
150
148
146
144
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

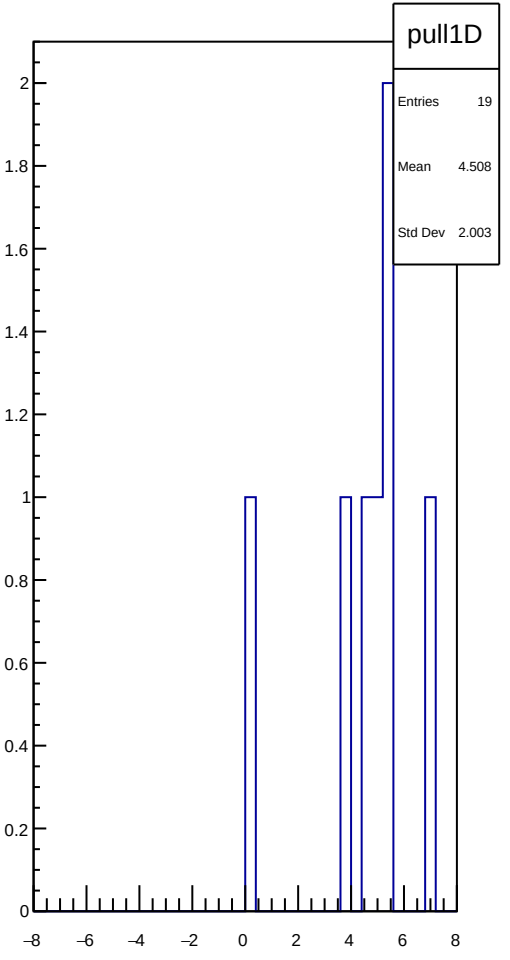

pull
Entries 19
Mean 19.01
Std Dev 8.296
100
50
0
−50
−100

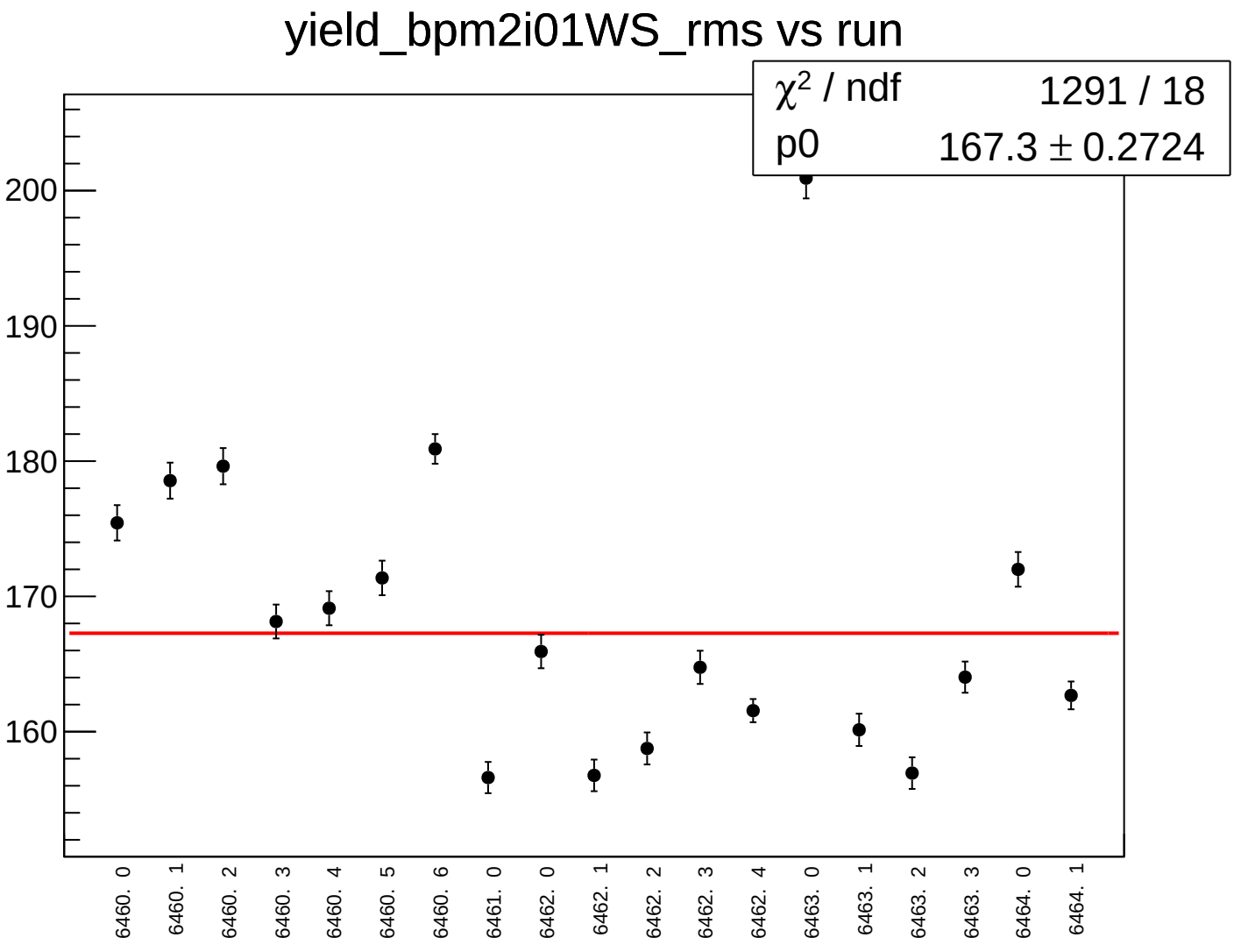

pull1D
Entries 19
Mean −2.391
Std Dev 3.564
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

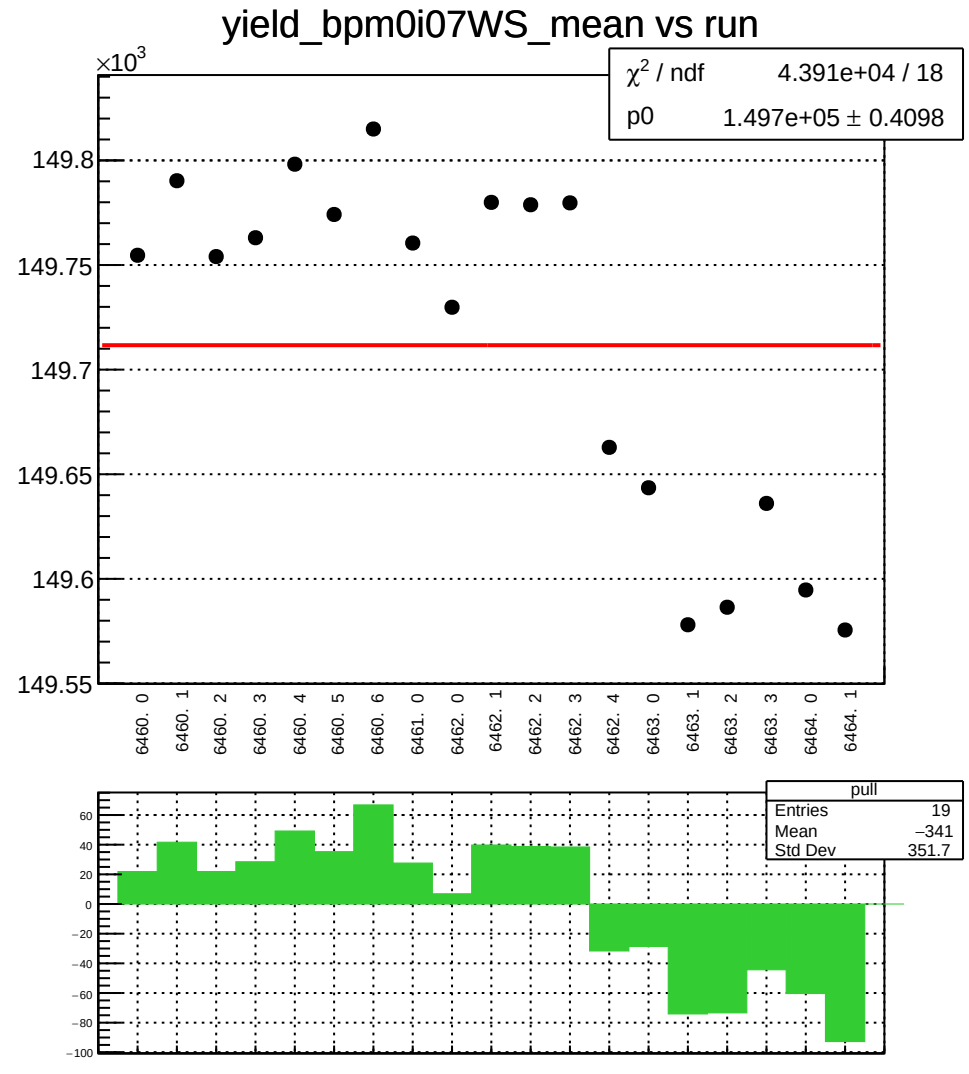

yield_bcm0l02_rms vs run
χ² / ndf 1.002e+05 / 18
p0 1.263 ± 0.002395
16
14
12
10
8
6
4
2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

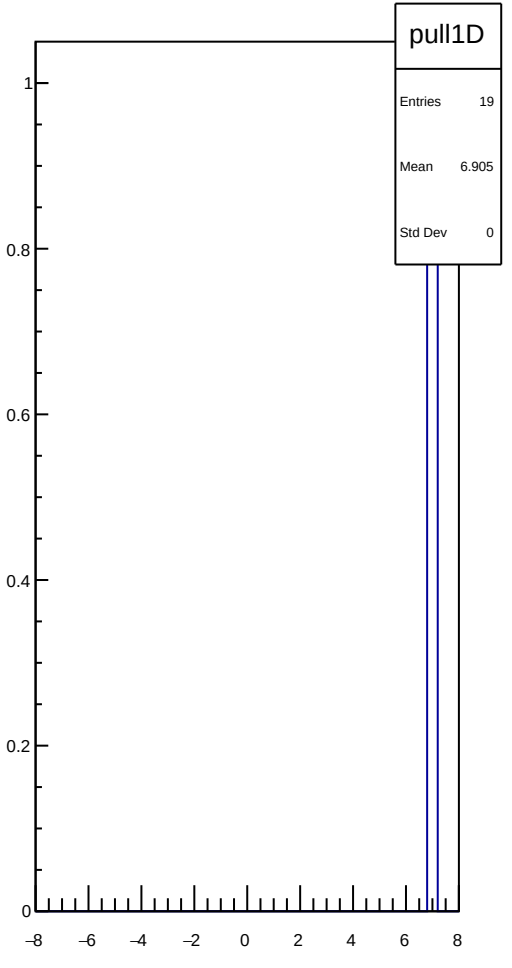

yield_bpm2i01WS_mean vs run
×10^3
χ^2 / ndf 2201 / 18
p0 1.299e+05 ± 0.3852
129.92
129.91
129.9
129.89
129.88
129.87
129.86
129.85
129.84
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

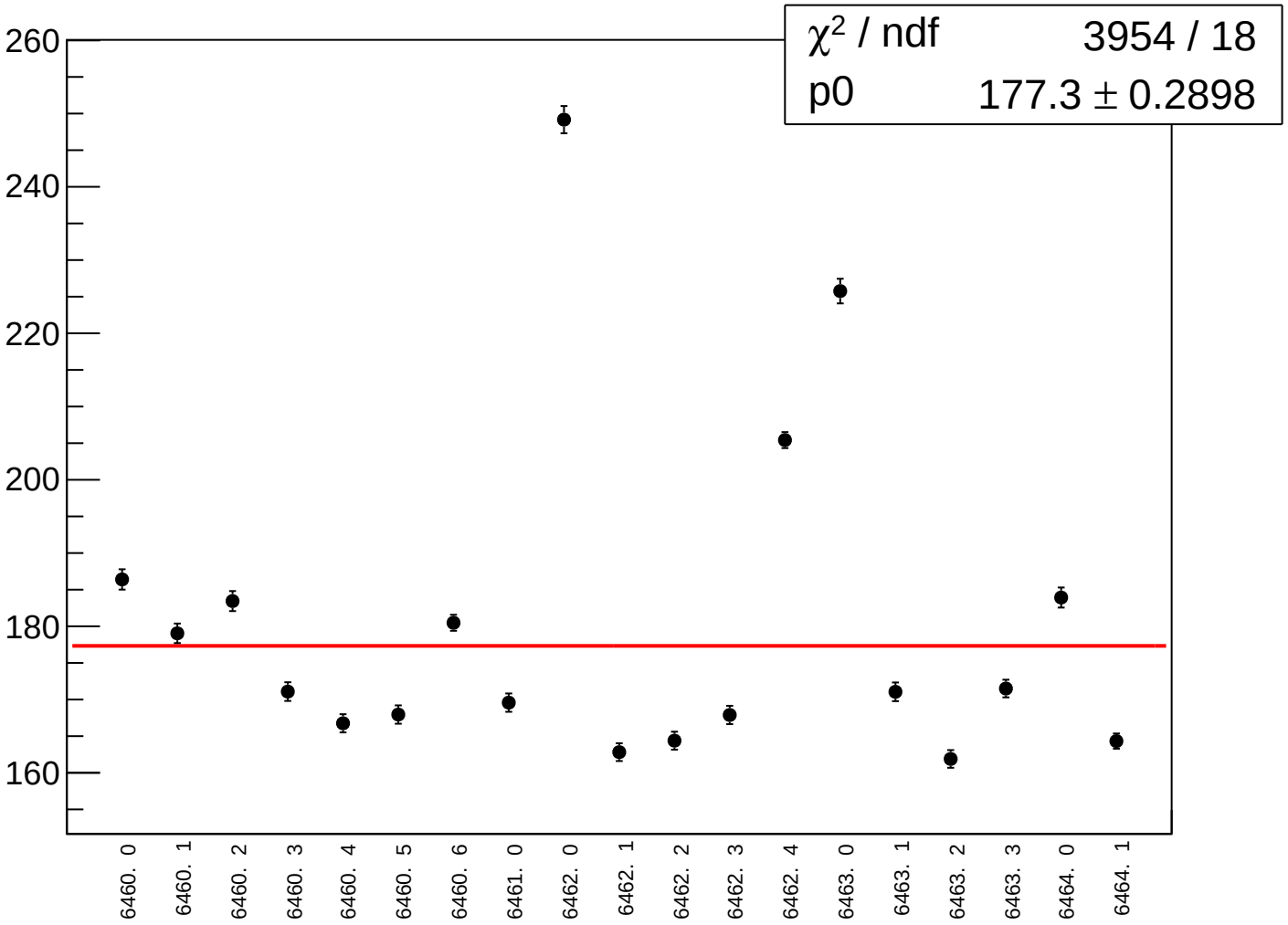

pull
Entries 19
Mean −143.3
Std Dev 152.2
15
10
5
0
−5
−10
−15

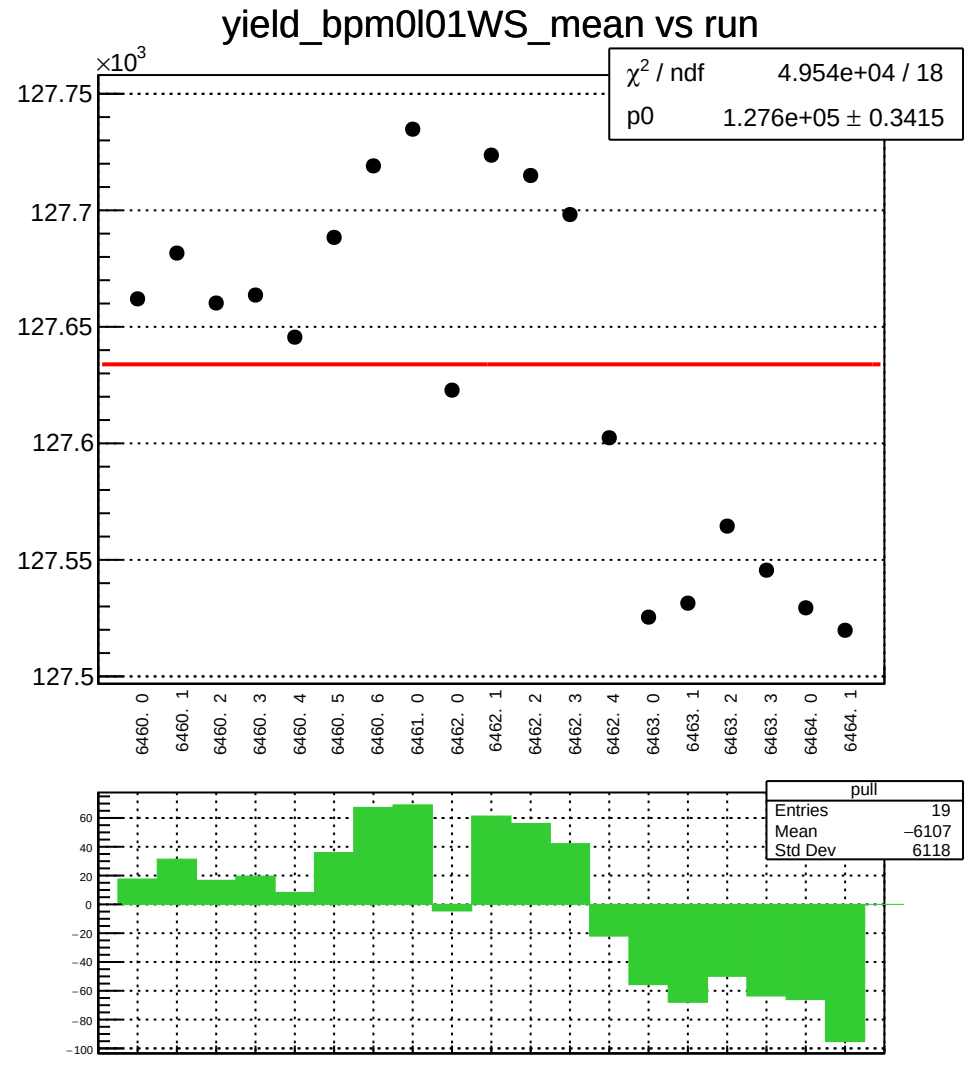

pull1D
Entries 19
Mean 4.508
Std Dev 2.003
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

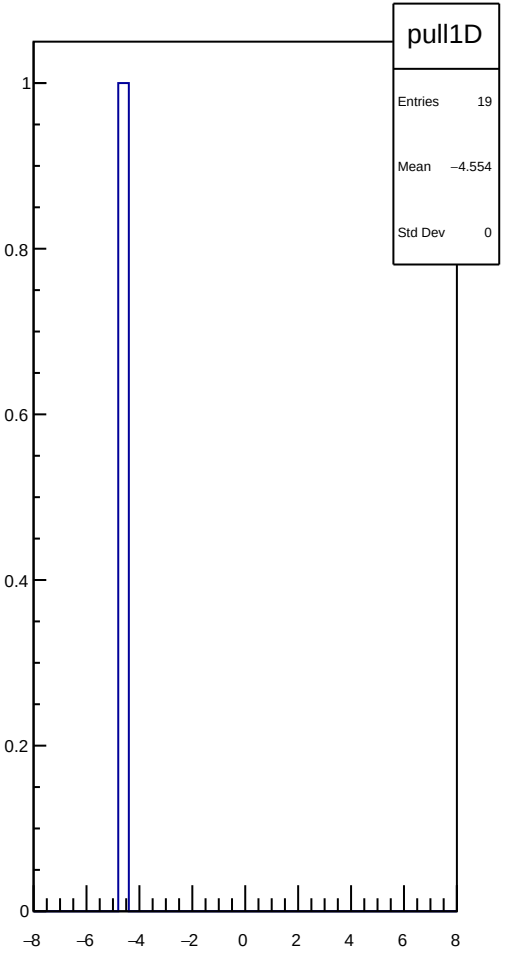

yield_bpm2i01WS_rms vs run
χ² / ndf 1291 / 18
p0 167.3 ± 0.2724
200
190
180
170
160
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

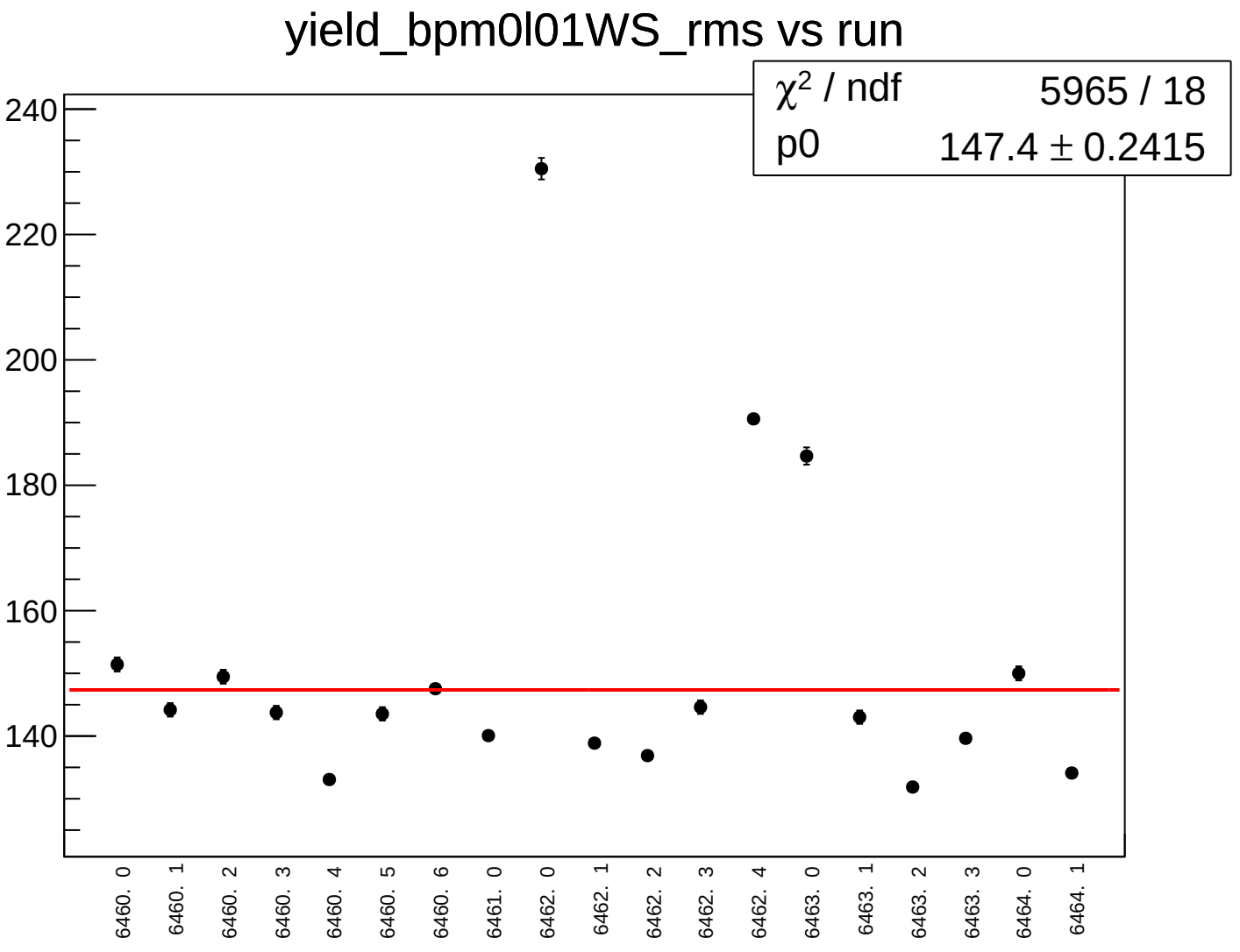

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 4.391e+04 / 18
p0 1.497e+05 ± 0.4098
149.8
149.75
149.7
149.65
149.6
149.55
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −341
Std Dev 351.7
60
40
20
0
−20
−40
−60
−80
−100

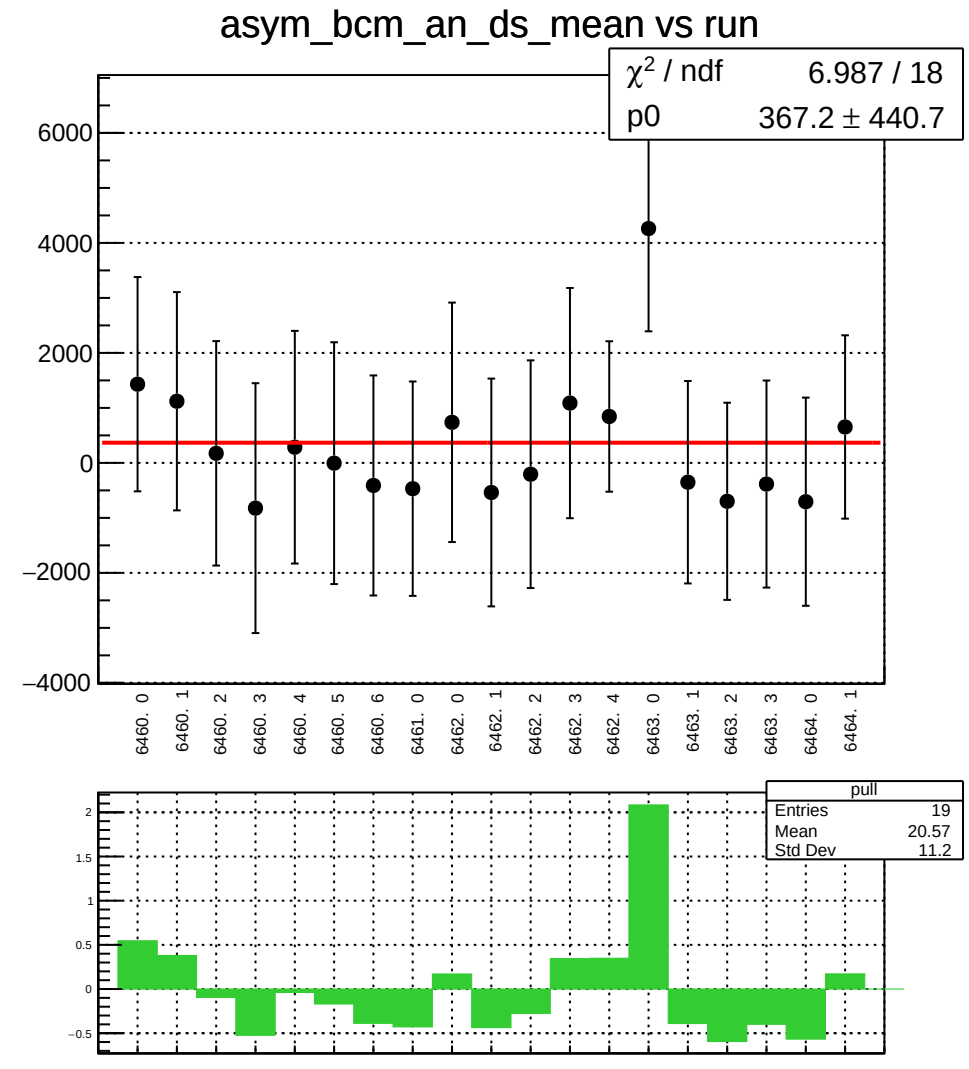

pull1D
Entries 19
Mean 6.905
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

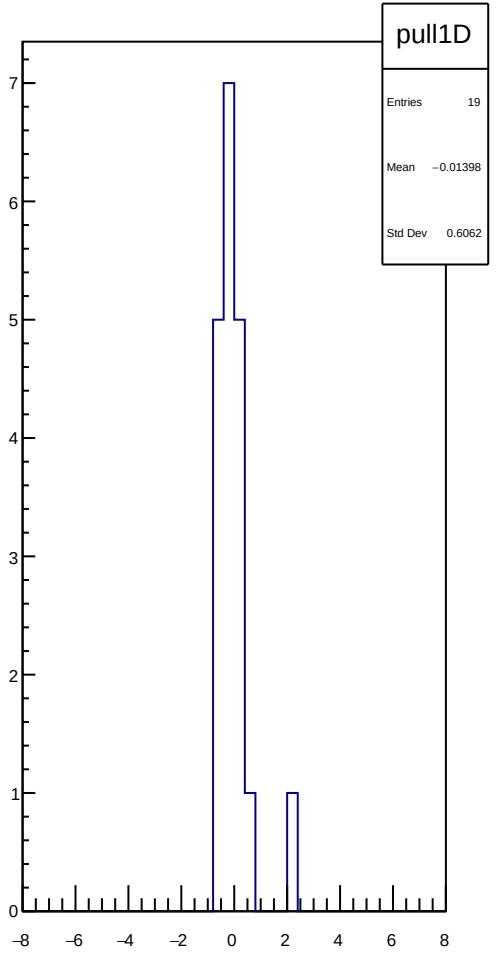

yield_bpm0i07WS_rms vs run
χ² / ndf 3954 / 18
p0 177.3 ± 0.2898
260
240
220
200
180
160
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

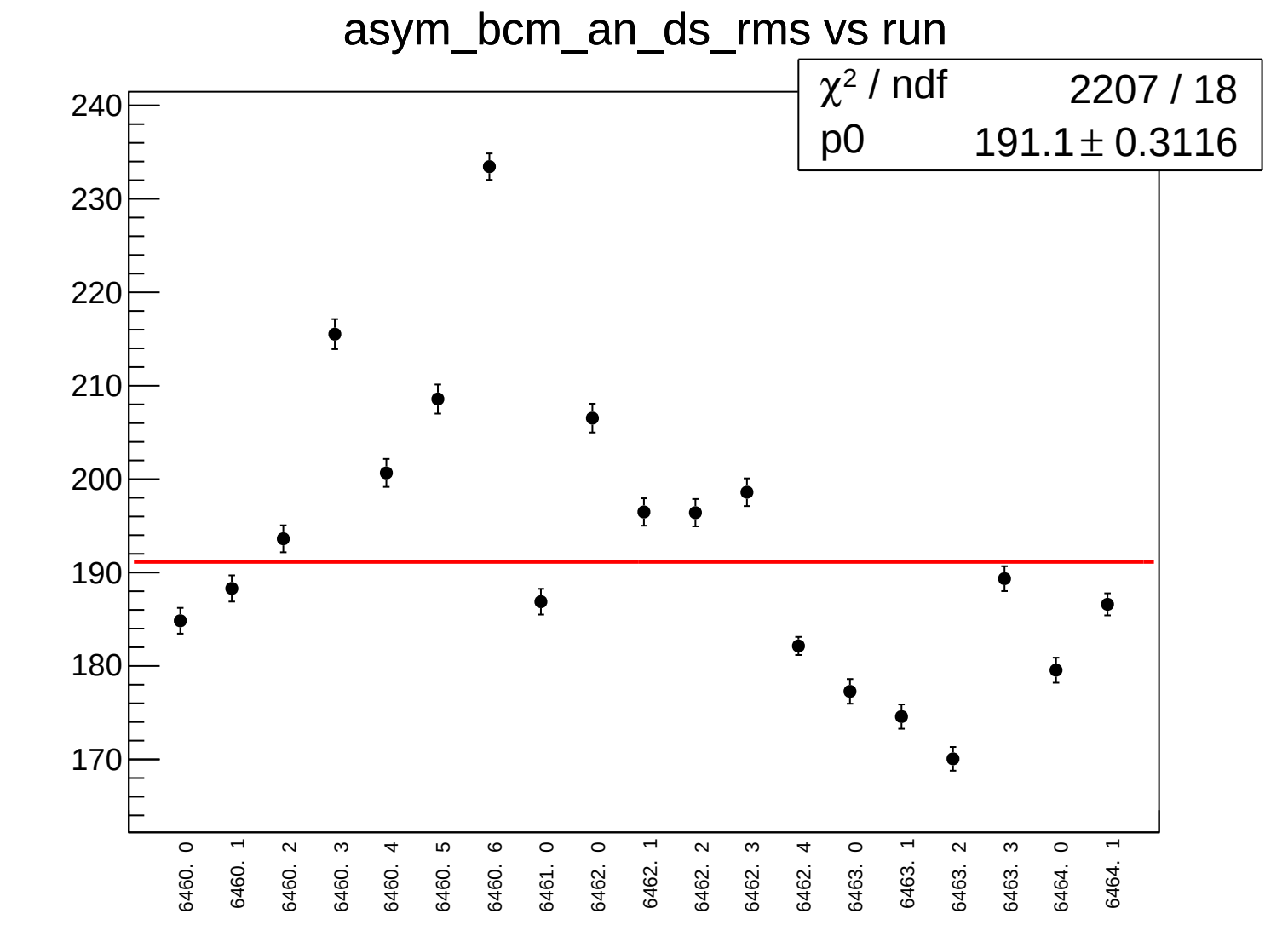

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 4.954e+04 / 18
p0 1.276e+05 ± 0.3415
127.75
127.7
127.65
127.6
127.55
127.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −6107
Std Dev 6118
60
40
20
0
−20
−40
−60
−80
−100

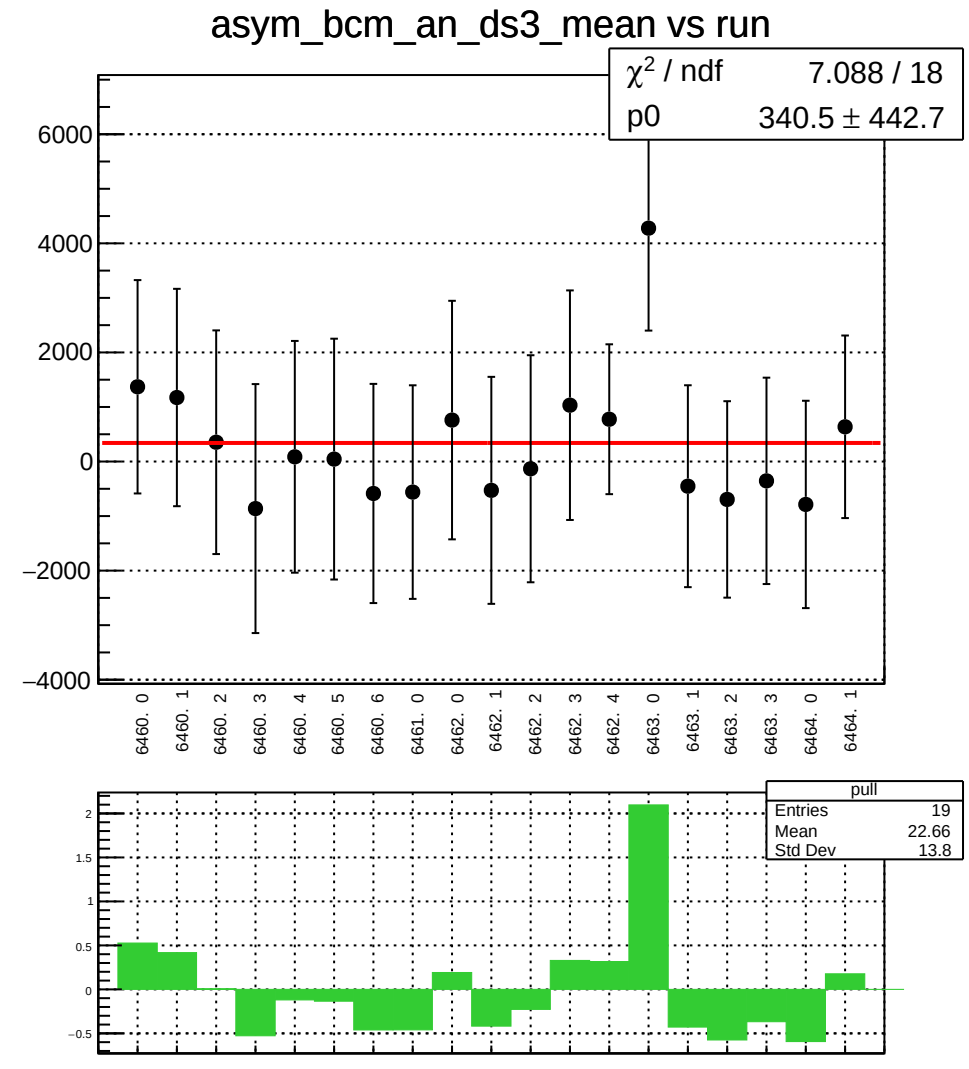

pull1D
Entries 19
Mean −4.554
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

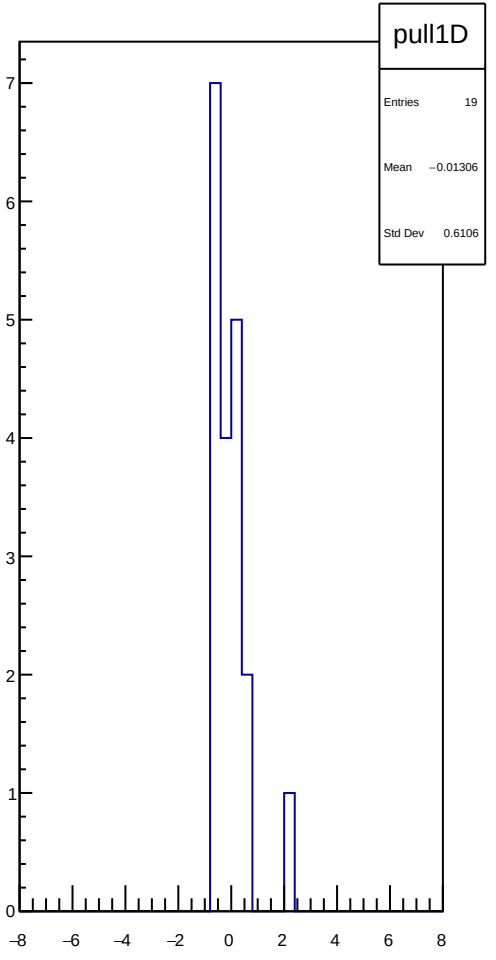

yield_bpm0l01WS_rms vs run
χ² / ndf 5965 / 18
p0 147.4 ± 0.2415
240
220
200
180
160
140
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

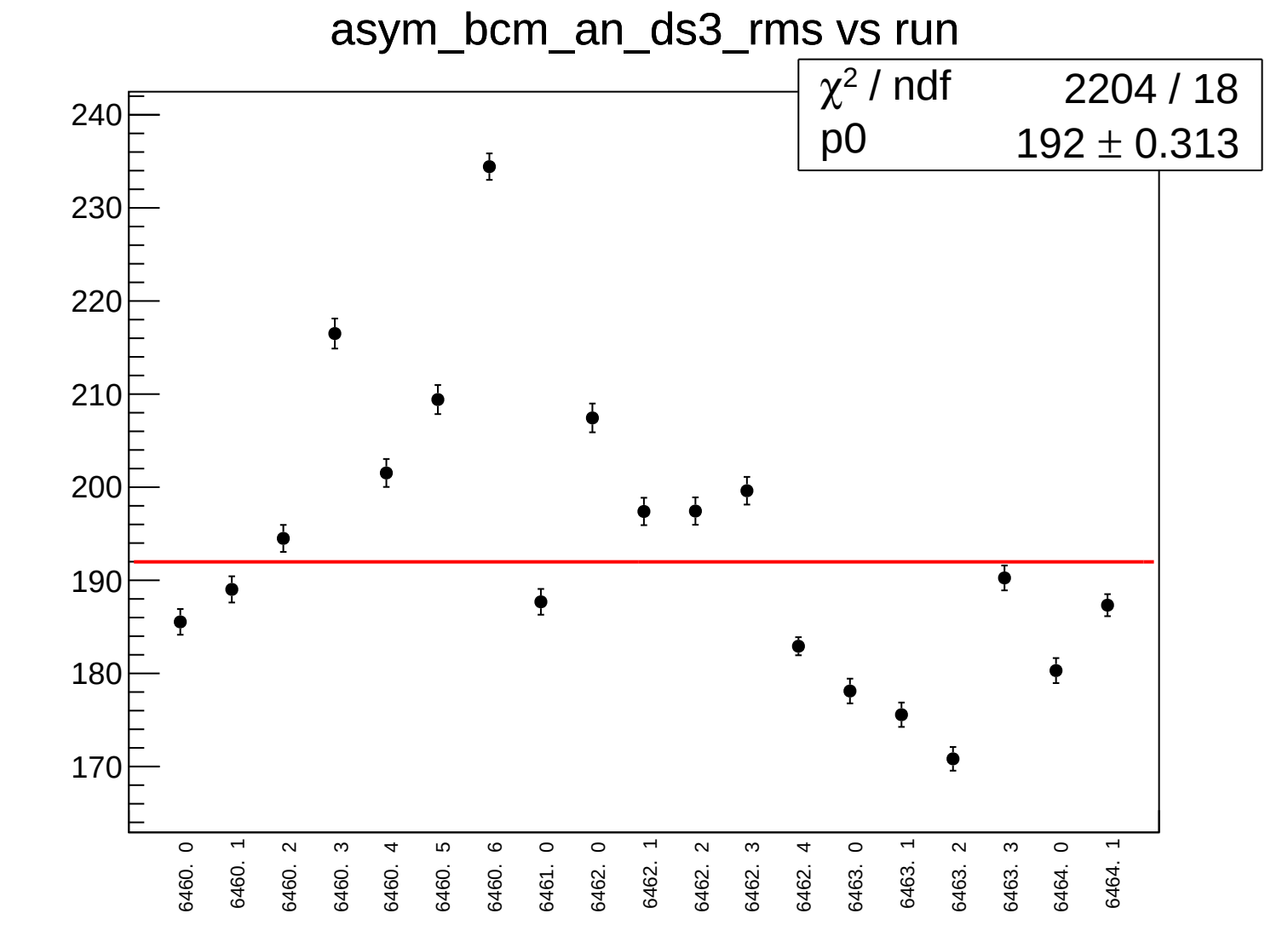

asym_bcm_an_ds_mean vs run
χ² / ndf 6.987 / 18
p0 367.2 ± 440.7
6000
4000
2000
0
−2000
−4000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 20.57
Std Dev 11.2
2
1.5
1
0.5
0
−0.5

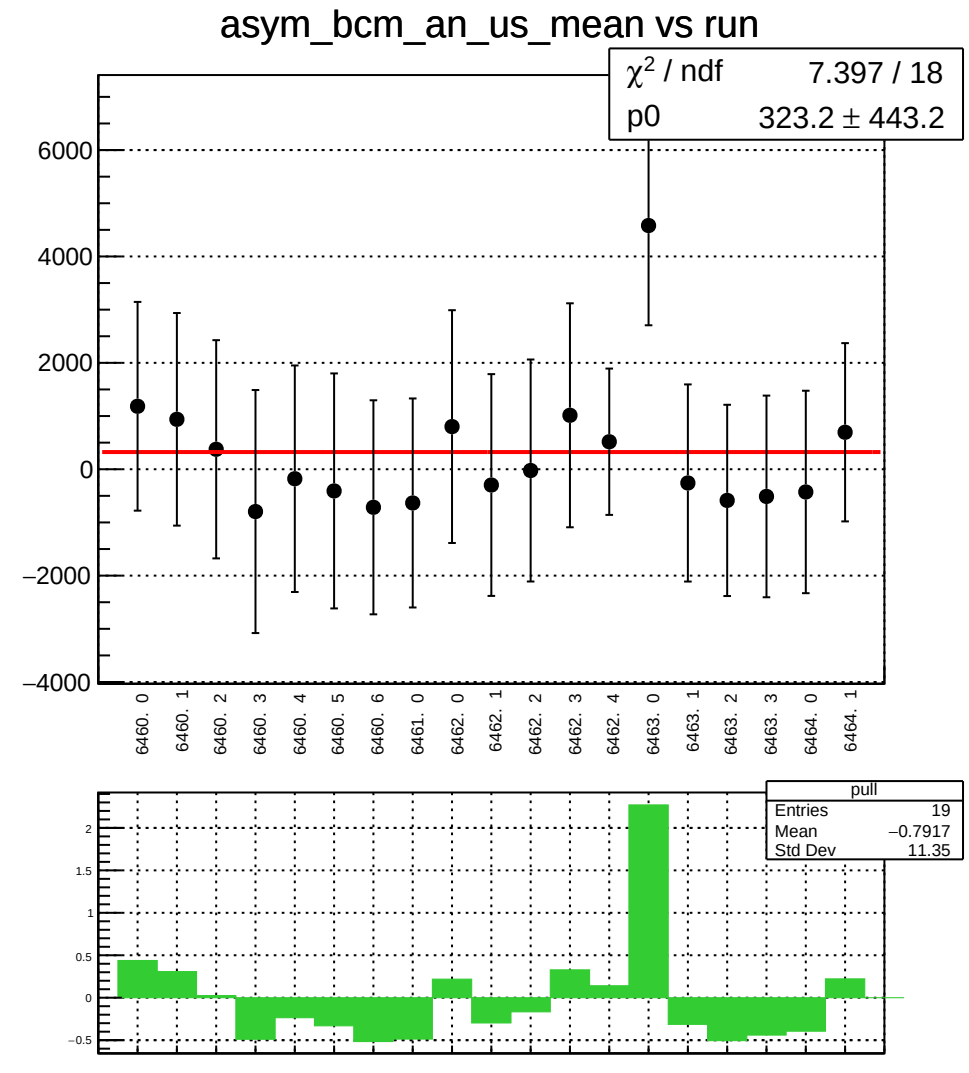

pull1D
Entries 19
Mean −0.01398
Std Dev 0.6062
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

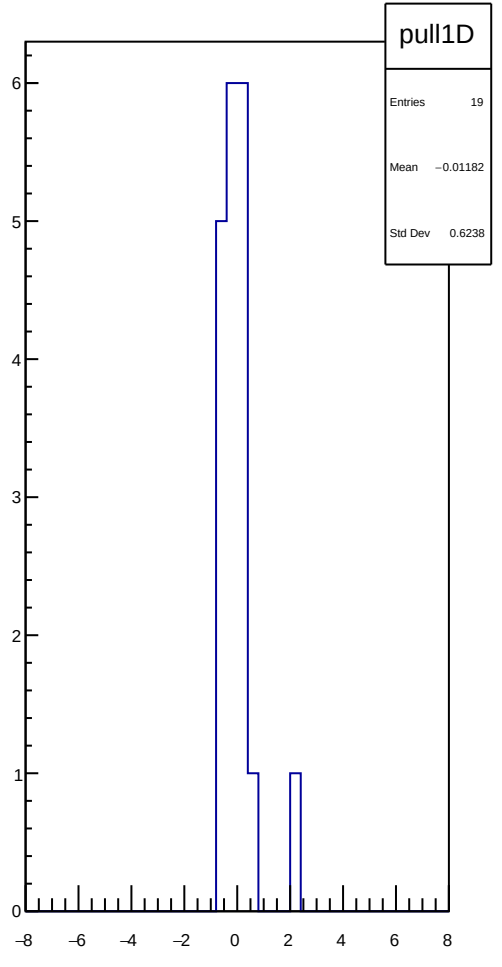

asym_bcm_an_ds_rms vs run
χ² / ndf 2207 / 18
p0 191.1 ± 0.3116
240
230
220
210
200
190
180
170
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

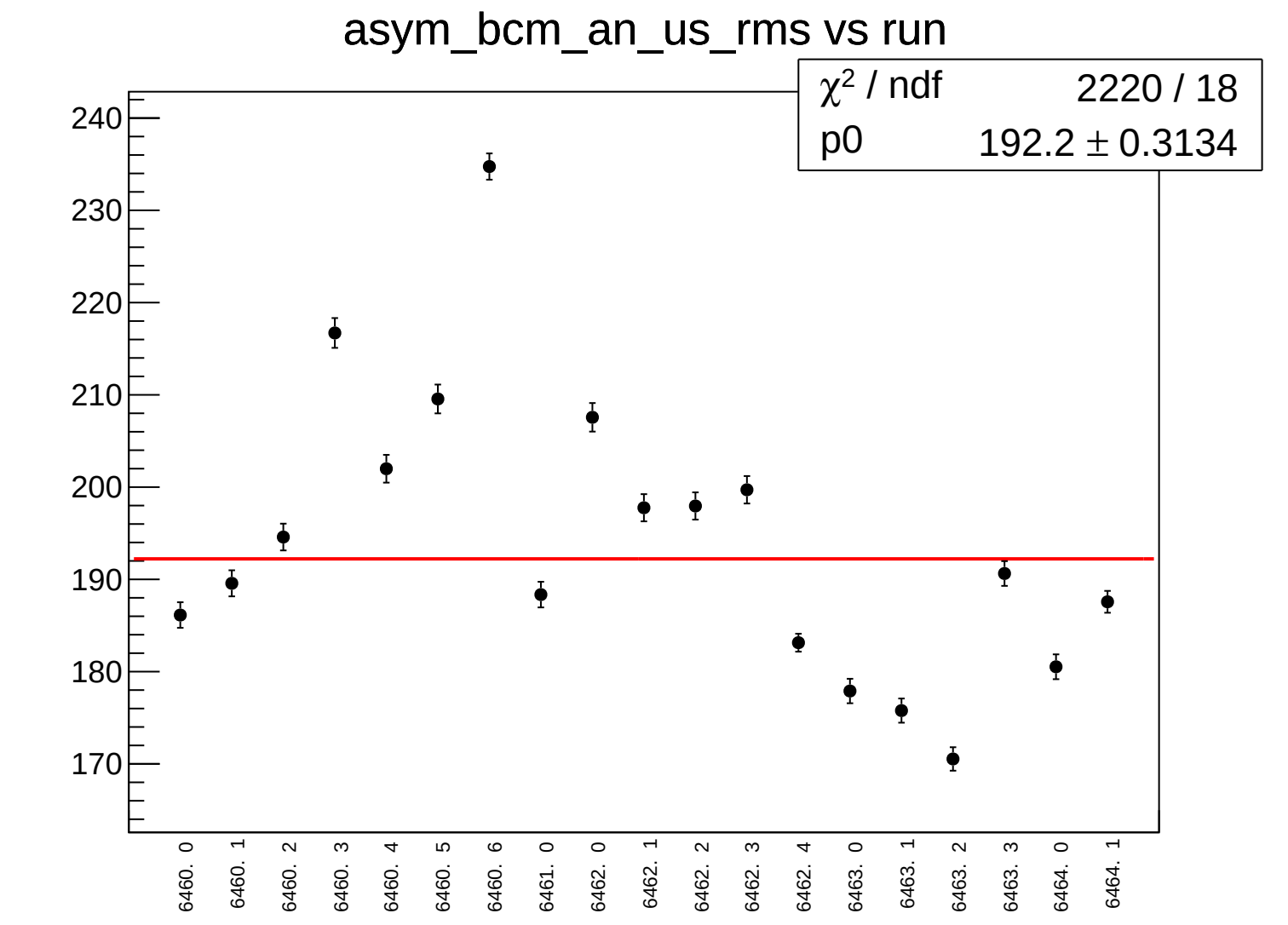

asym_bcm_an_ds3_mean vs run
χ² / ndf 7.088 / 18
p0 340.5 ± 442.7
6000
4000
2000
0
−2000
−4000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 22.66
Std Dev 13.8
2
1.5
1
0.5
0
−0.5

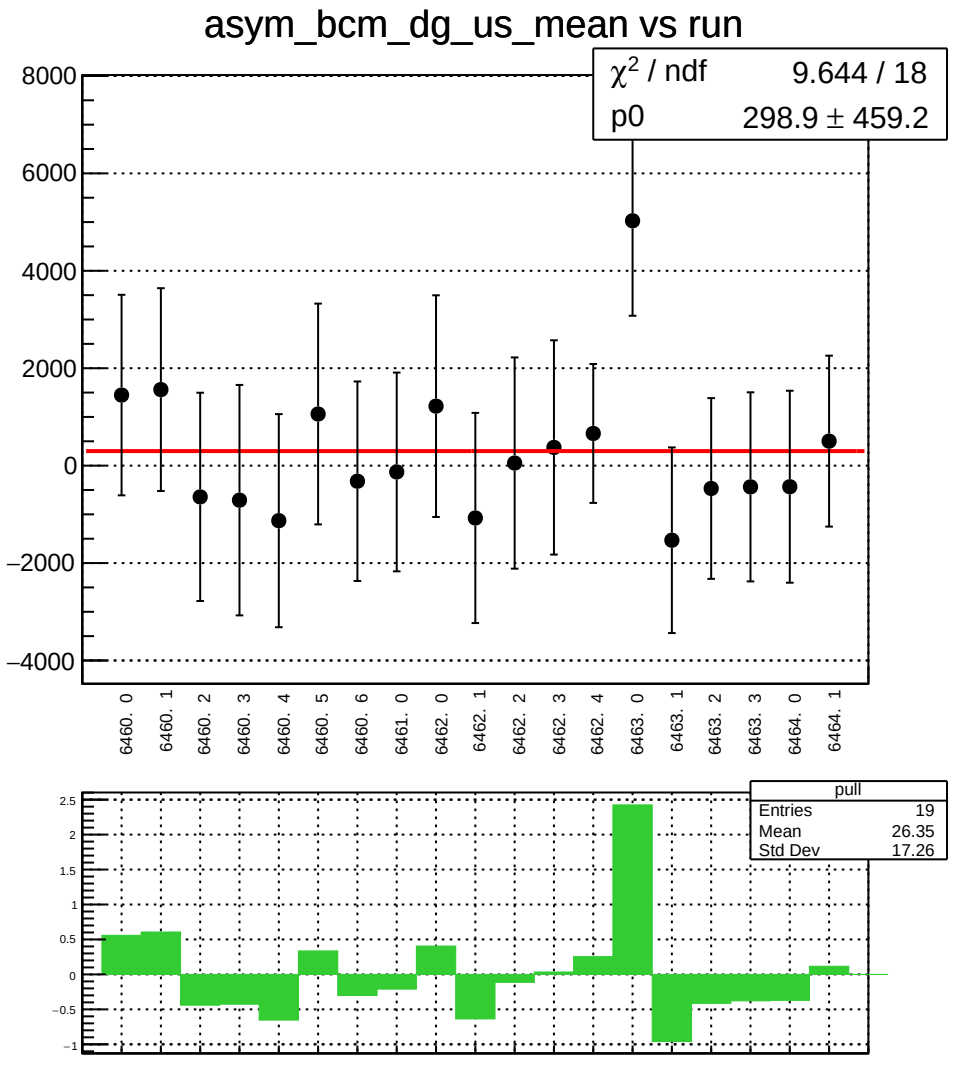

pull1D
Entries 19
Mean −0.01306
Std Dev 0.6106
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

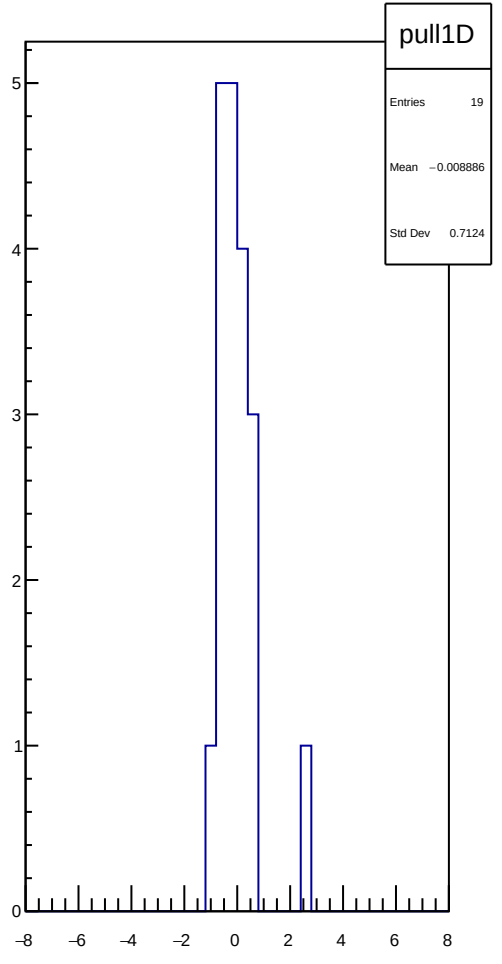

asym_bcm_an_ds3_rms vs run
χ² / ndf 2204 / 18
p0 192 ± 0.313
240
230
220
210
200
190
180
170
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

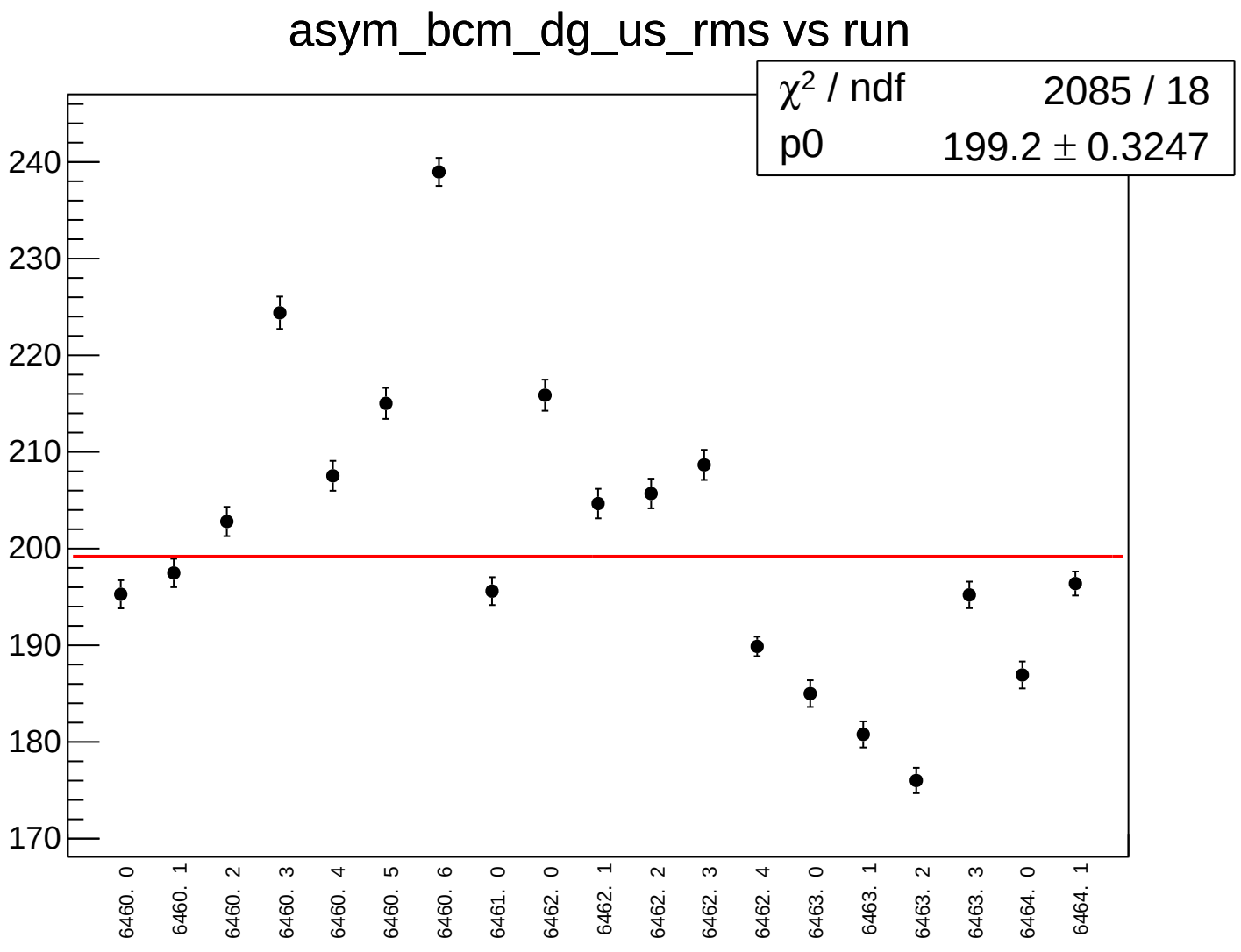

asym_bcm_an_us_mean vs run
χ² / ndf 7.397 / 18
p0 323.2 ± 443.2
6000
4000
2000
0
−2000
−4000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −0.7917
Std Dev 11.35
2
1.5
1
0.5
0
−0.5

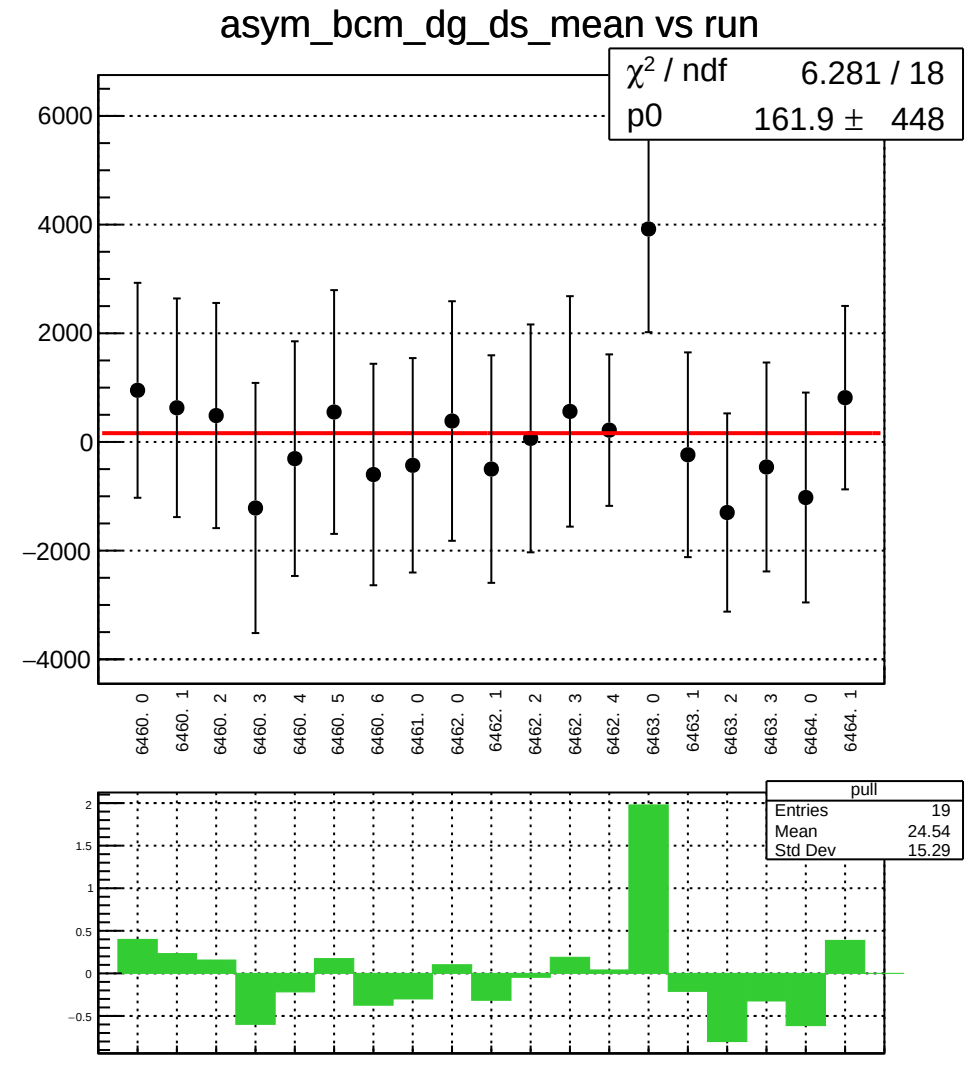

pull1D
Entries 19
Mean −0.01182
Std Dev 0.6238
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

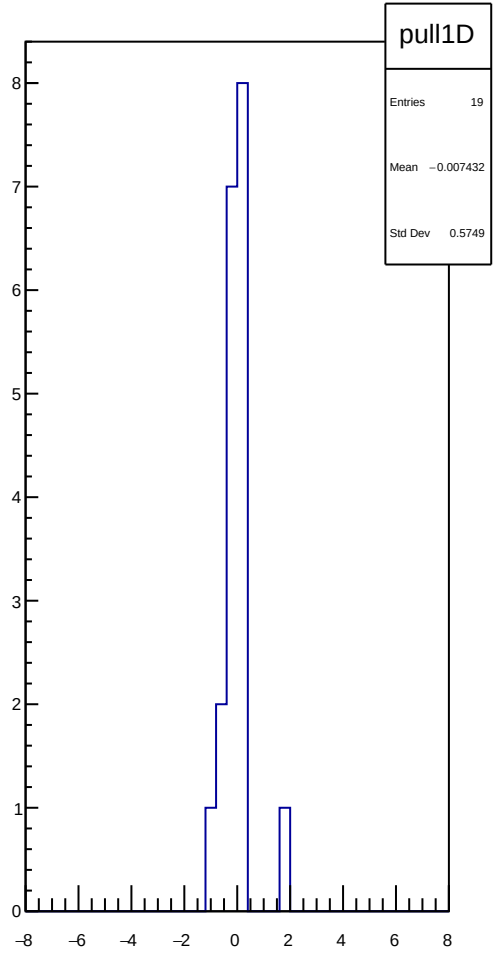

asym_bcm_an_us_rms vs run
χ² / ndf 2220 / 18
p0 192.2 ± 0.3134
240
230
220
210
200
190
180
170
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

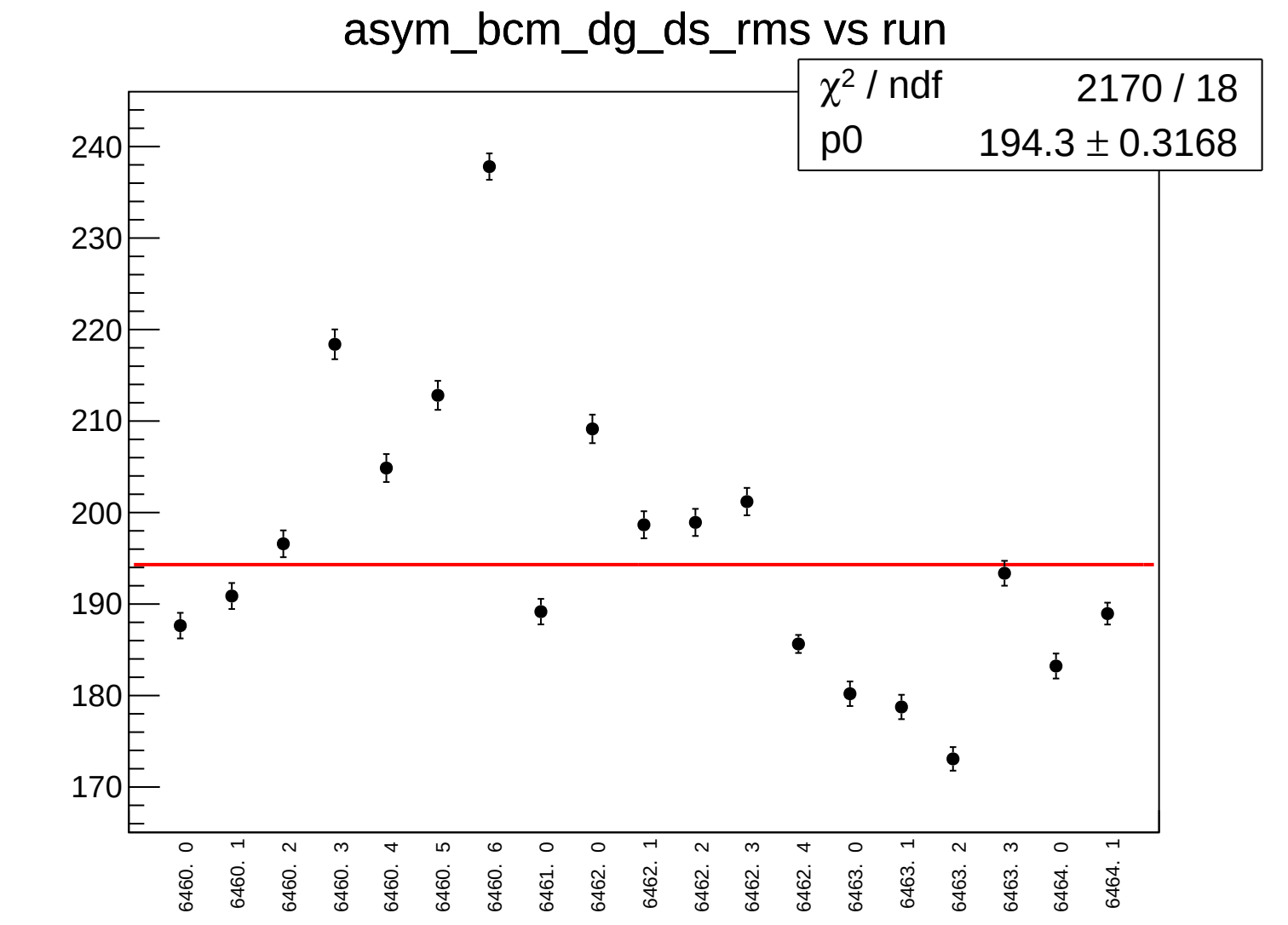

asym_bcm_dg_us_mean vs run
χ² / ndf 9.644 / 18
p0 298.9 ± 459.2
8000
6000
4000
2000
0
−2000
−4000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 26.35
Std Dev 17.26
2.5
2
1.5
1
0.5
0
−0.5
−1

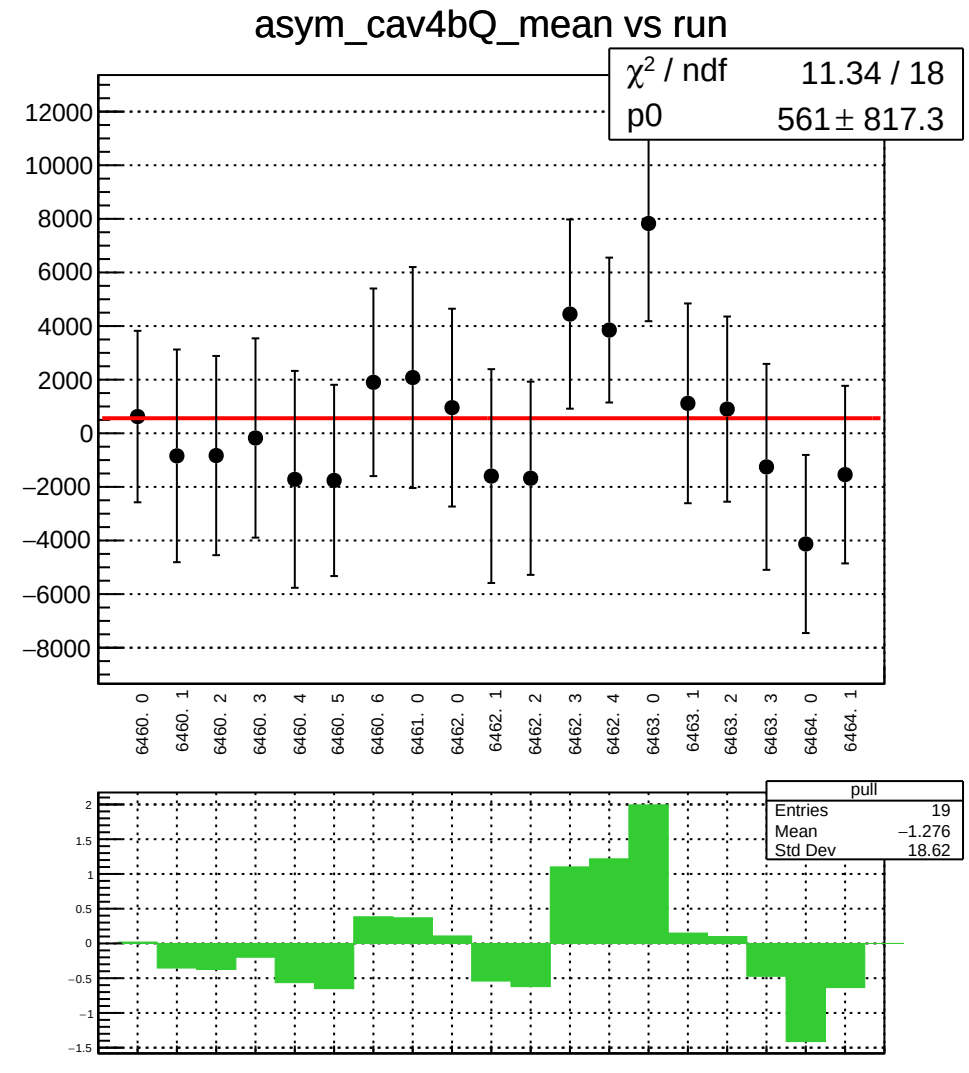

pull1D
Entries 19
Mean −0.008886
Std Dev 0.7124
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

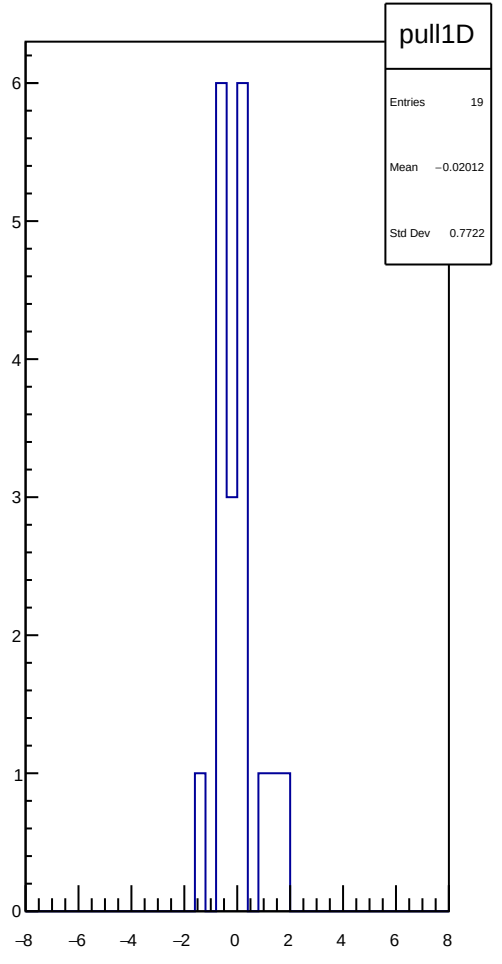

asym_bcm_dg_us_rms vs run
χ² / ndf 2085 / 18
p0 199.2 ± 0.3247
240
230
220
210
200
190
180
170
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

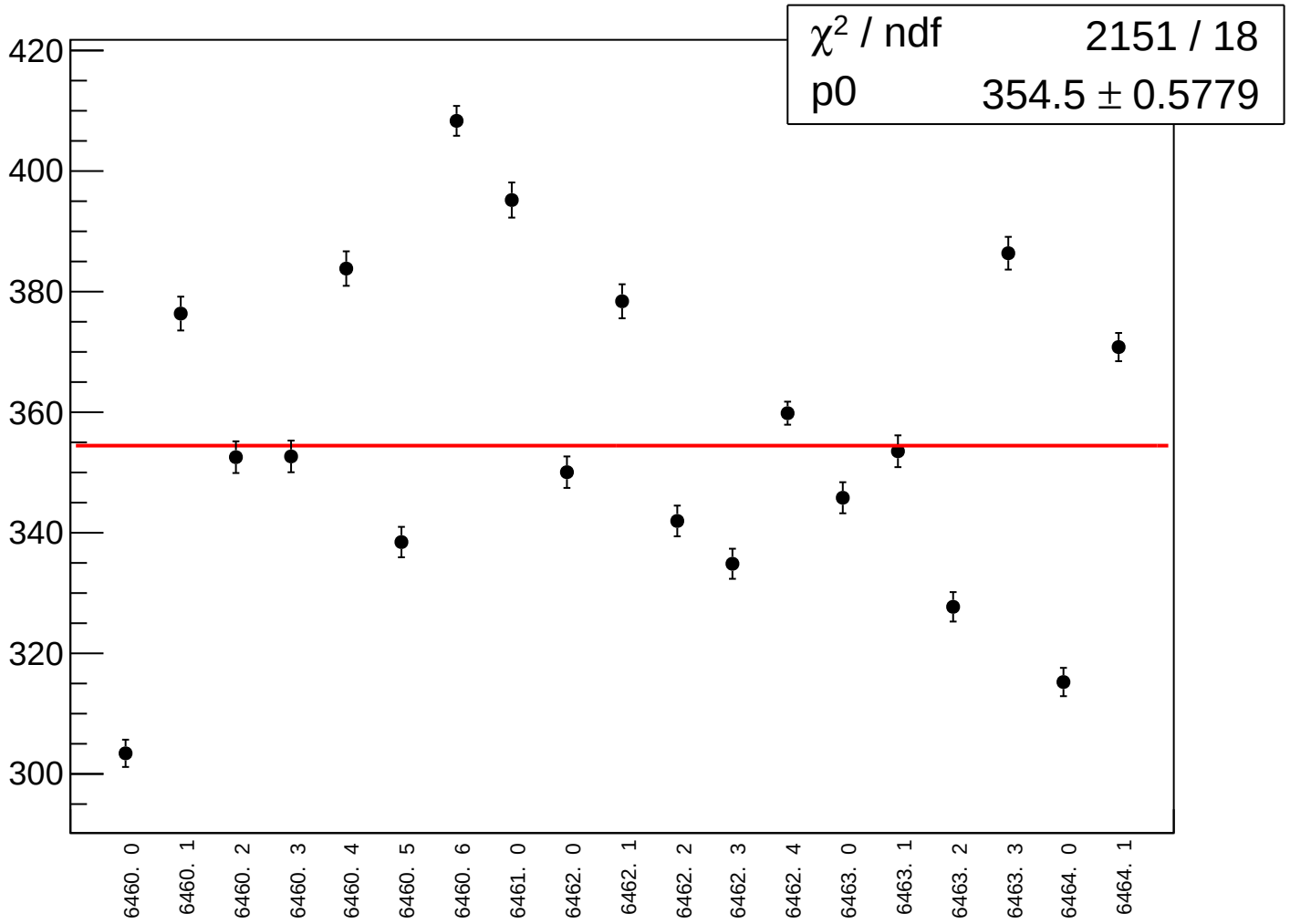

asym_bcm_dg_ds_mean vs run
χ² / ndf 6.281 / 18
p0 161.9 ± 448
6000
4000
2000
0
−2000
−4000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 24.54
Std Dev 15.29
2
1.5
1
0.5
0
−0.5

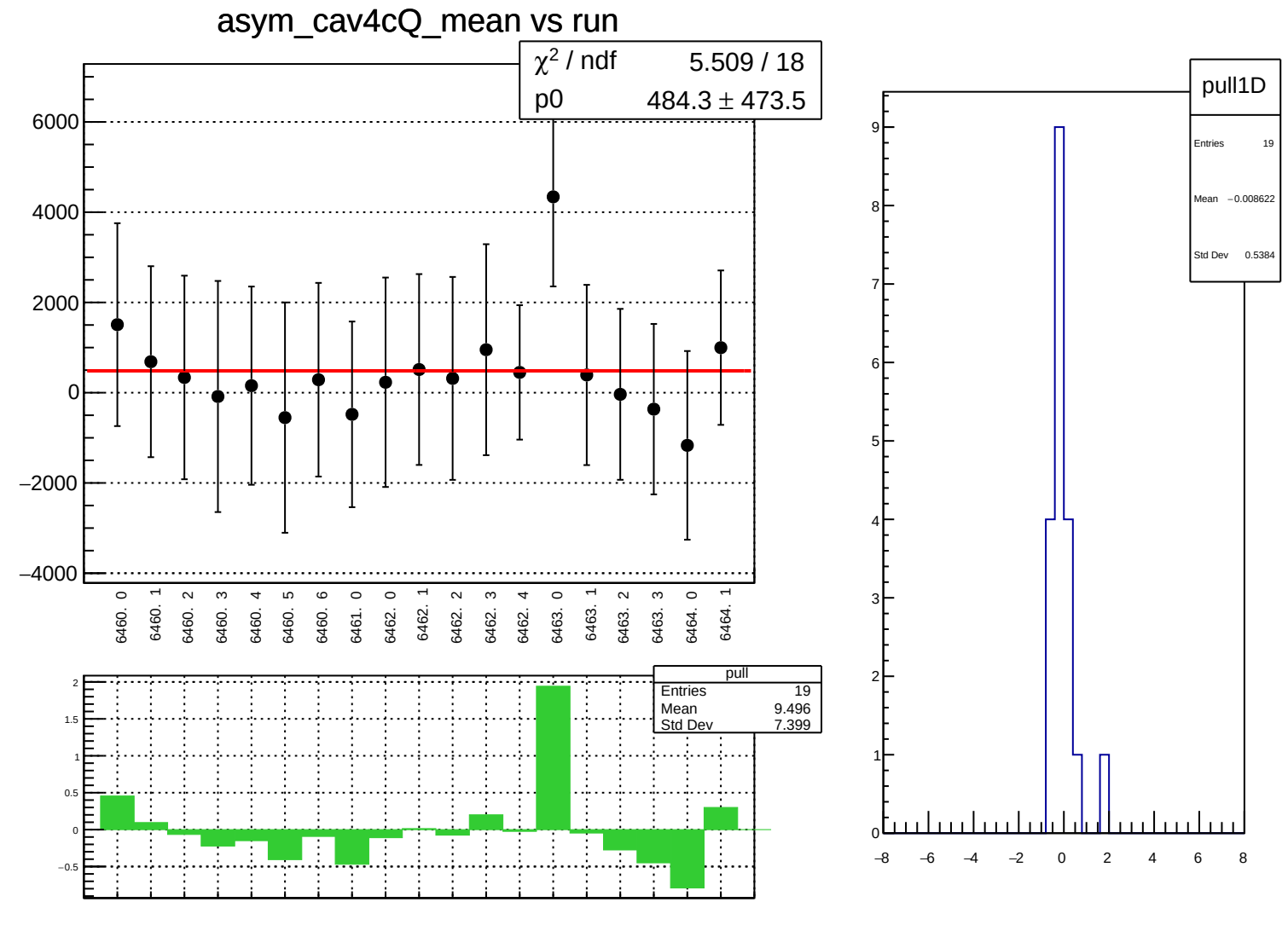

pull1D
Entries 19
Mean −0.007432
Std Dev 0.5749
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

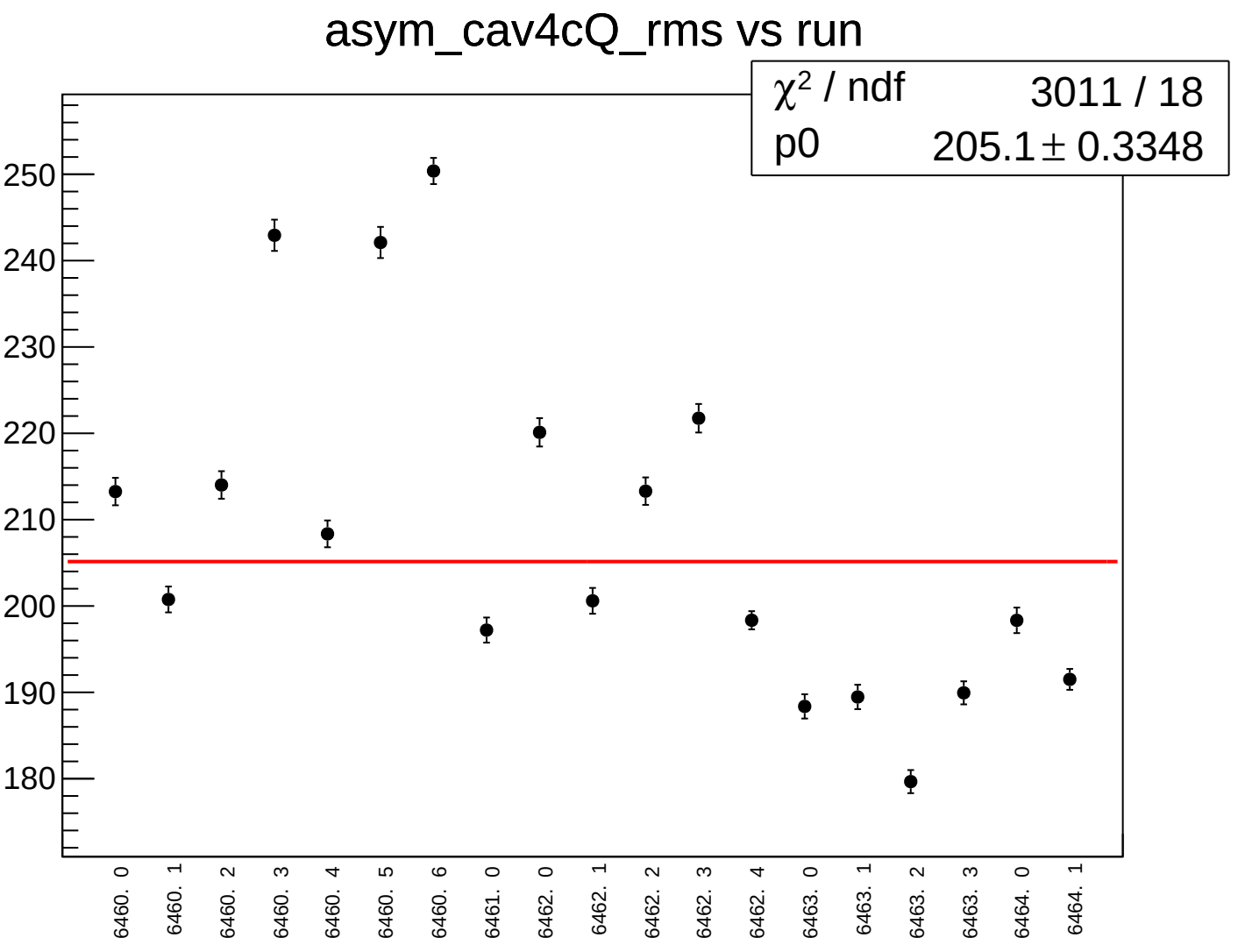

asym_bcm_dg_ds_rms vs run
χ² / ndf 2170 / 18
p0 194.3 ± 0.3168
240
230
220
210
200
190
180
170
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

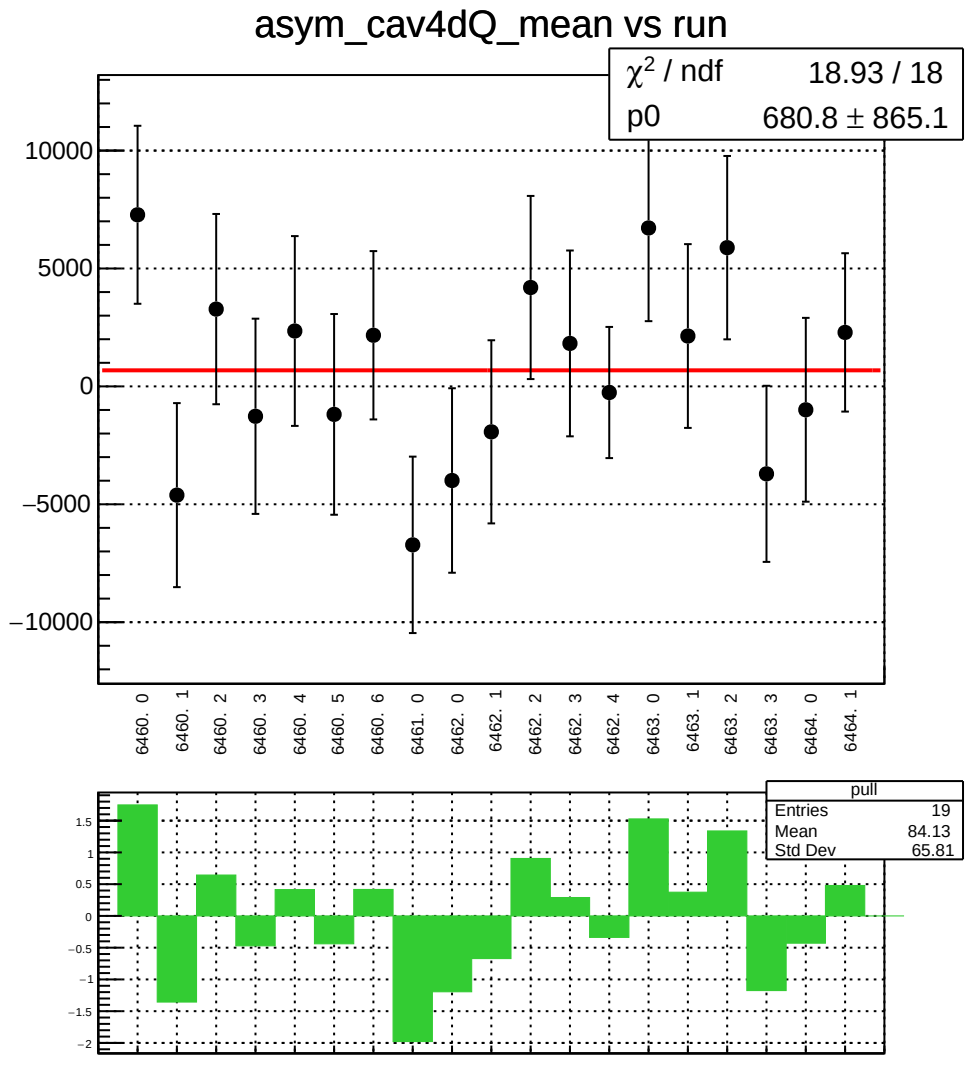

asym_cav4bQ_mean vs run
χ² / ndf 11.34 / 18
p0 561 ± 817.3
12000
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −1.276
Std Dev 18.62
2
1.5
1
0.5
0
−0.5
−1
−1.5

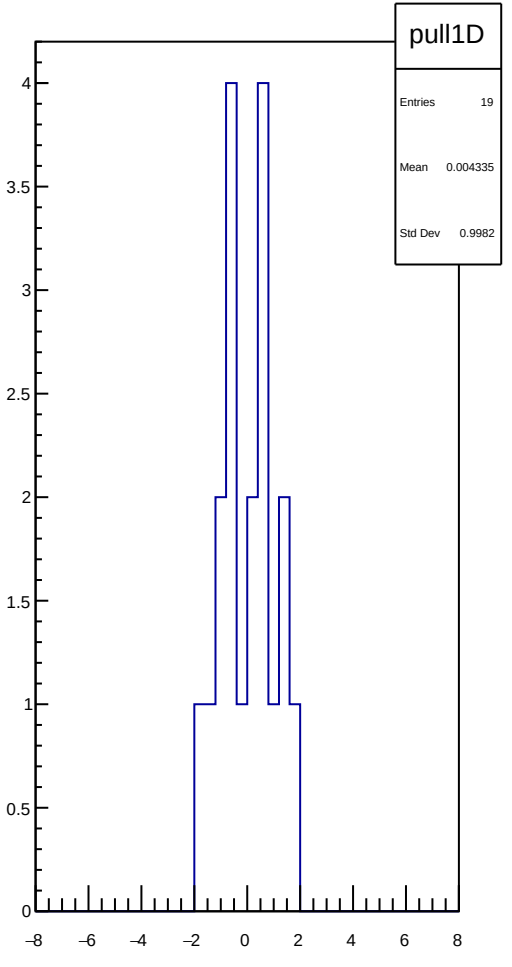

pull1D
Entries 19
Mean −0.02012
Std Dev 0.7722
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

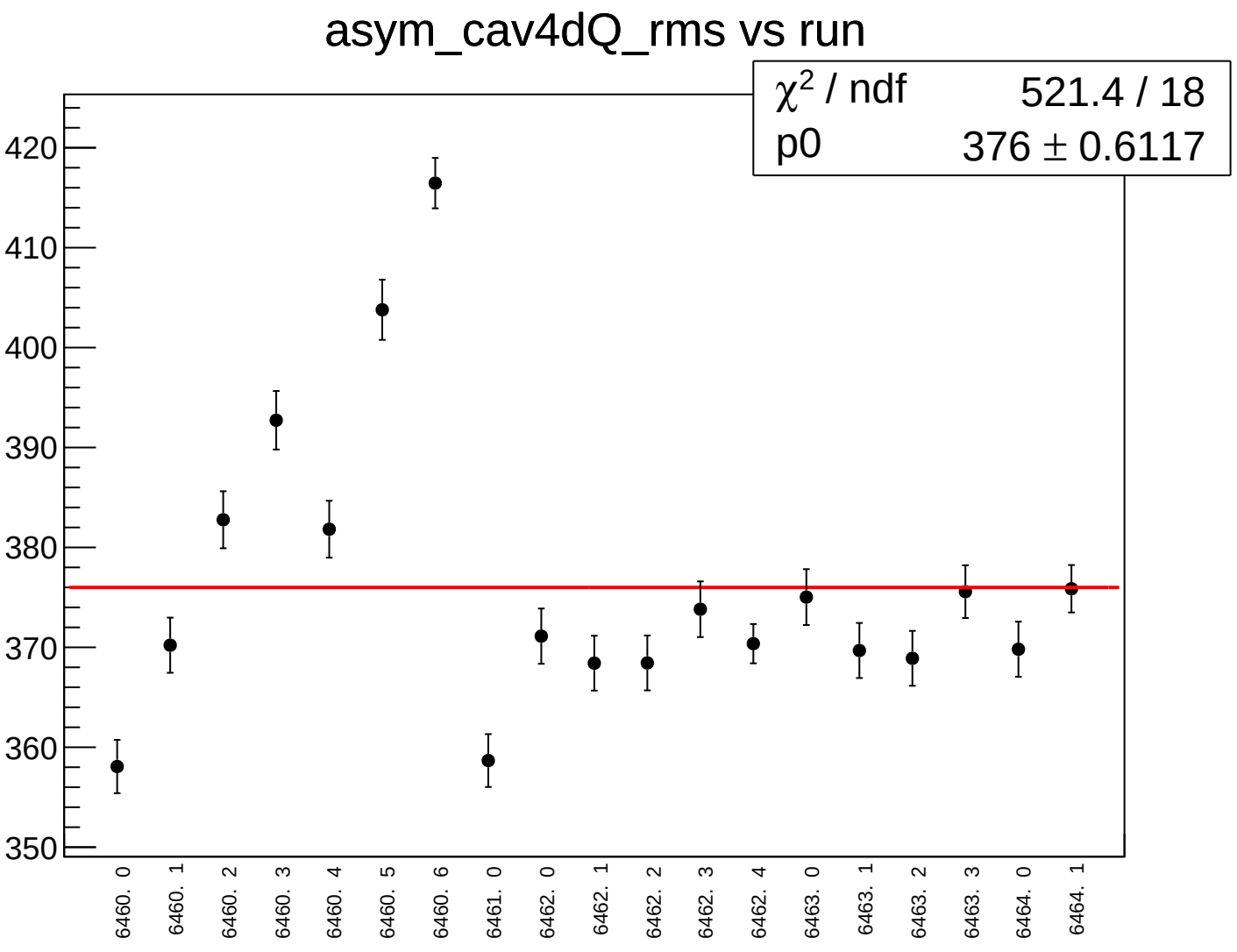

asym_cav4bQ_rms vs run
χ² / ndf 2151 / 18
p0 354.5 ± 0.5779
420
400
380
360
340
320
300
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

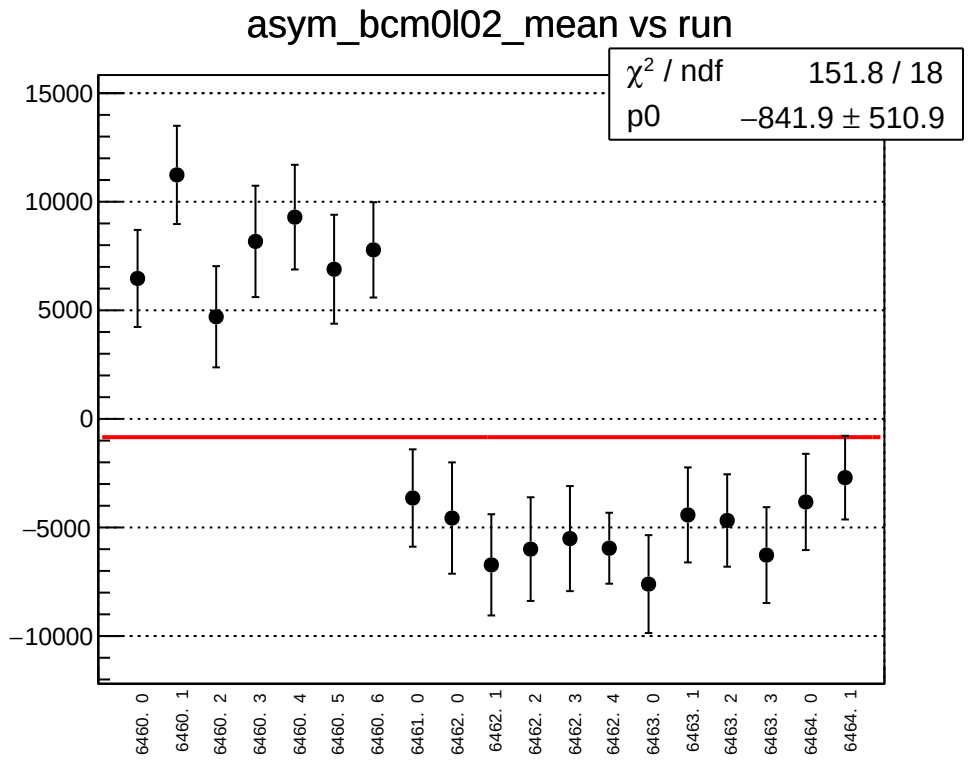

asym_cav4cQ_mean vs run
χ² / ndf 5.509 / 18
p0 484.3 ± 473.5
6000
4000
2000
0
−2000
−4000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 9.496
Std Dev 7.399
2
1.5
1
0.5
0
−0.5
pull1D
Entries 19
Mean −0.008622
Std Dev 0.5384
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

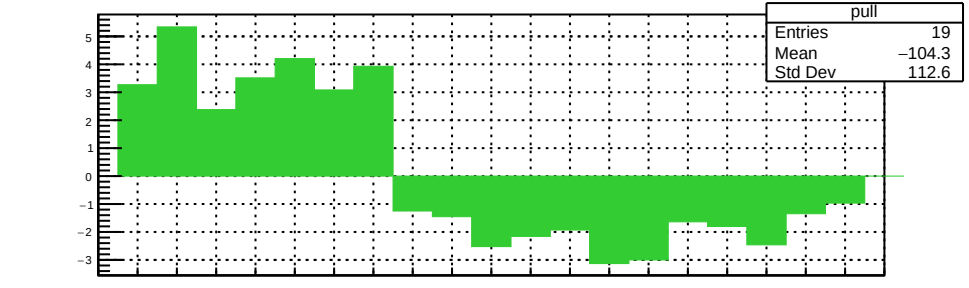

asym_cav4cQ_rms vs run
χ² / ndf 3011 / 18
p0 205.1 ± 0.3348
250
240
230
220
210
200
190
180
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

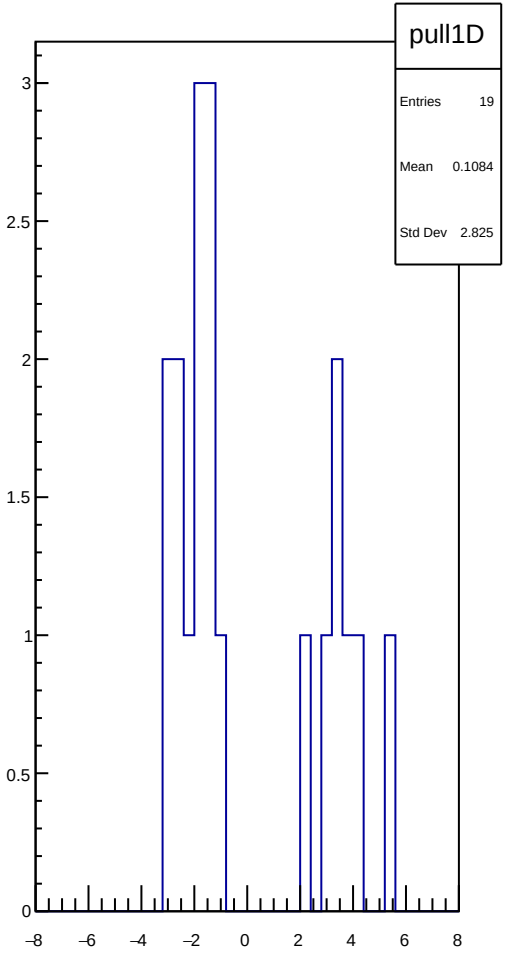

asym_cav4dQ_mean vs run
χ² / ndf 18.93 / 18
p0 680.8 ± 865.1
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 84.13
Std Dev 65.81
1.5
1
0.5
0
−0.5
−1
−1.5
−2

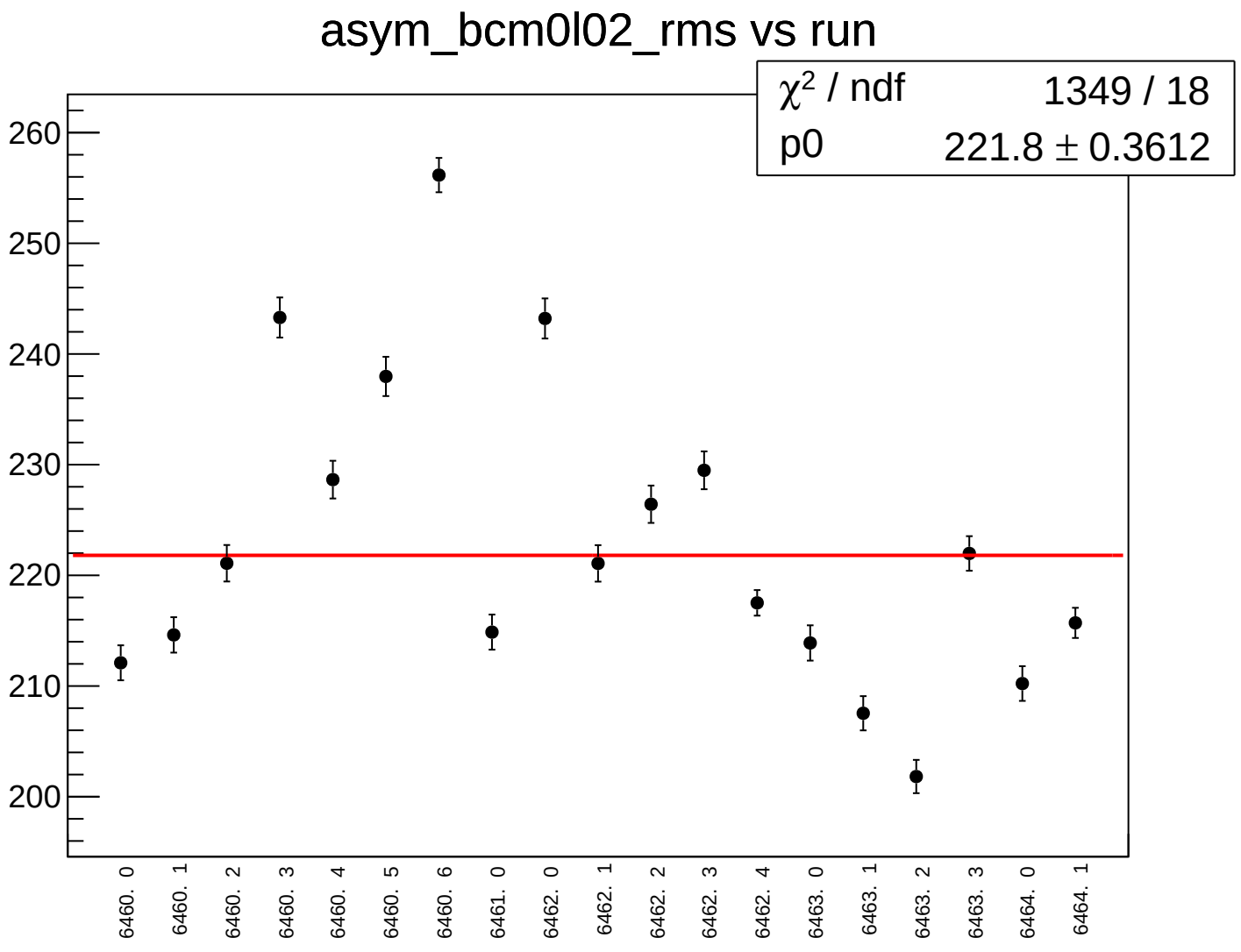

pull1D
Entries 19
Mean 0.004335
Std Dev 0.9982
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

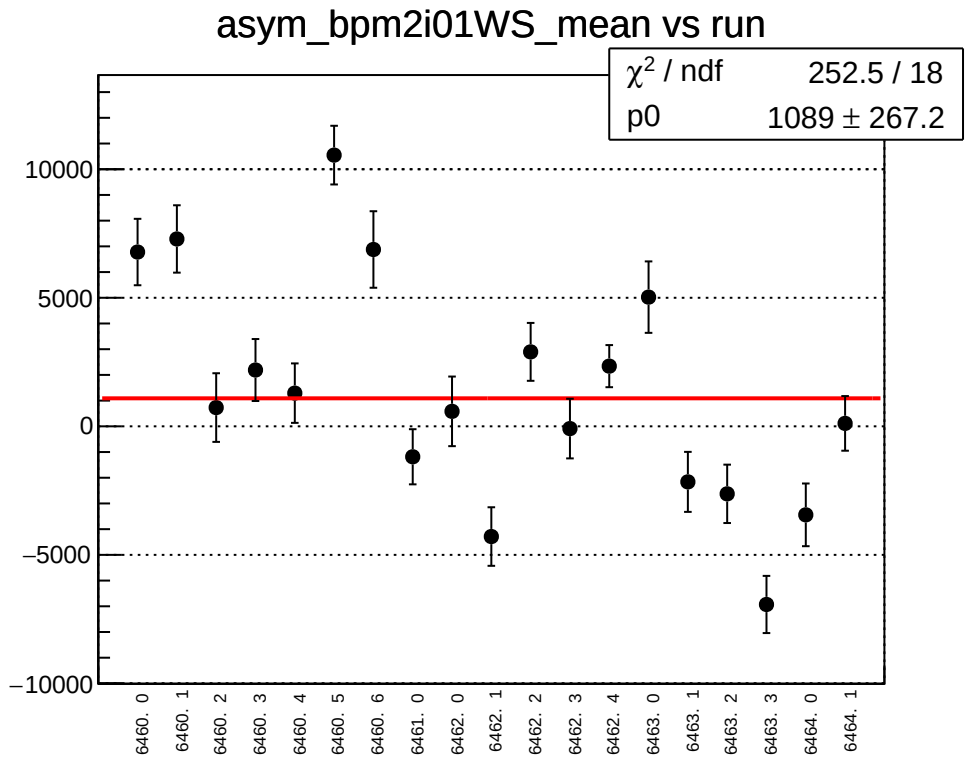

asym_cav4dQ_rms vs run
χ² / ndf 521.4 / 18
p0 376 ± 0.6117
420
410
400
390
380
370
360
350
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

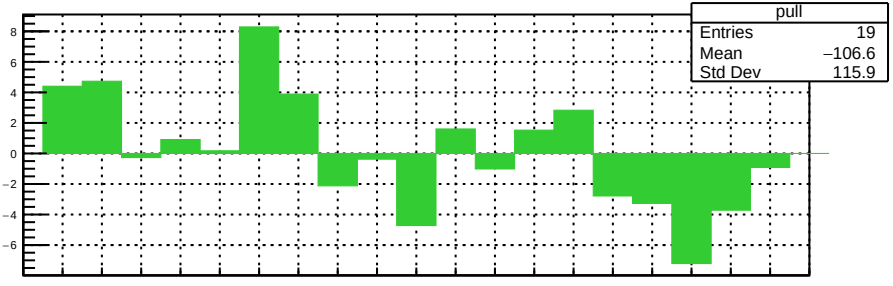

asym_bcm0l02_mean vs run
χ² / ndf 151.8 / 18
p0 −841.9 ± 510.9
15000
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

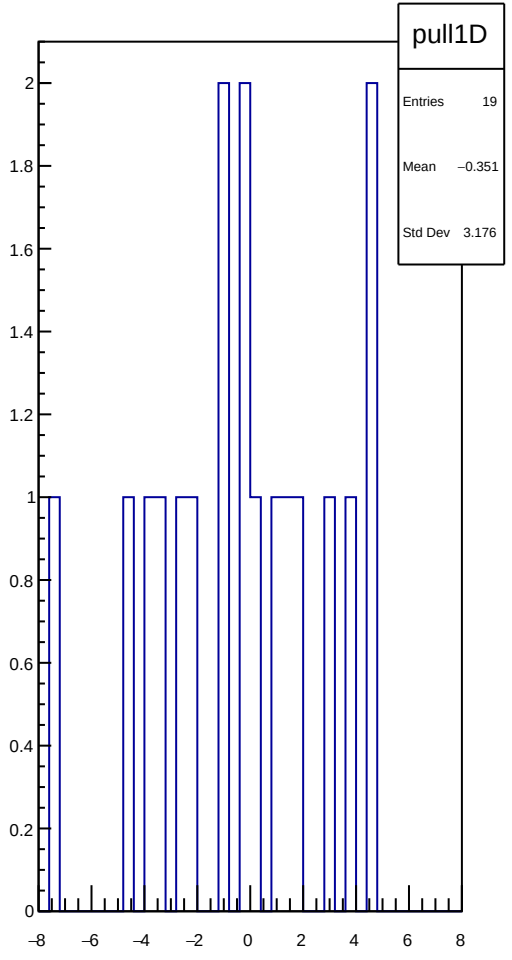

pull
Entries 19
Mean −104.3
Std Dev 112.6
5
4
3
2
1
0
−1
−2
−3

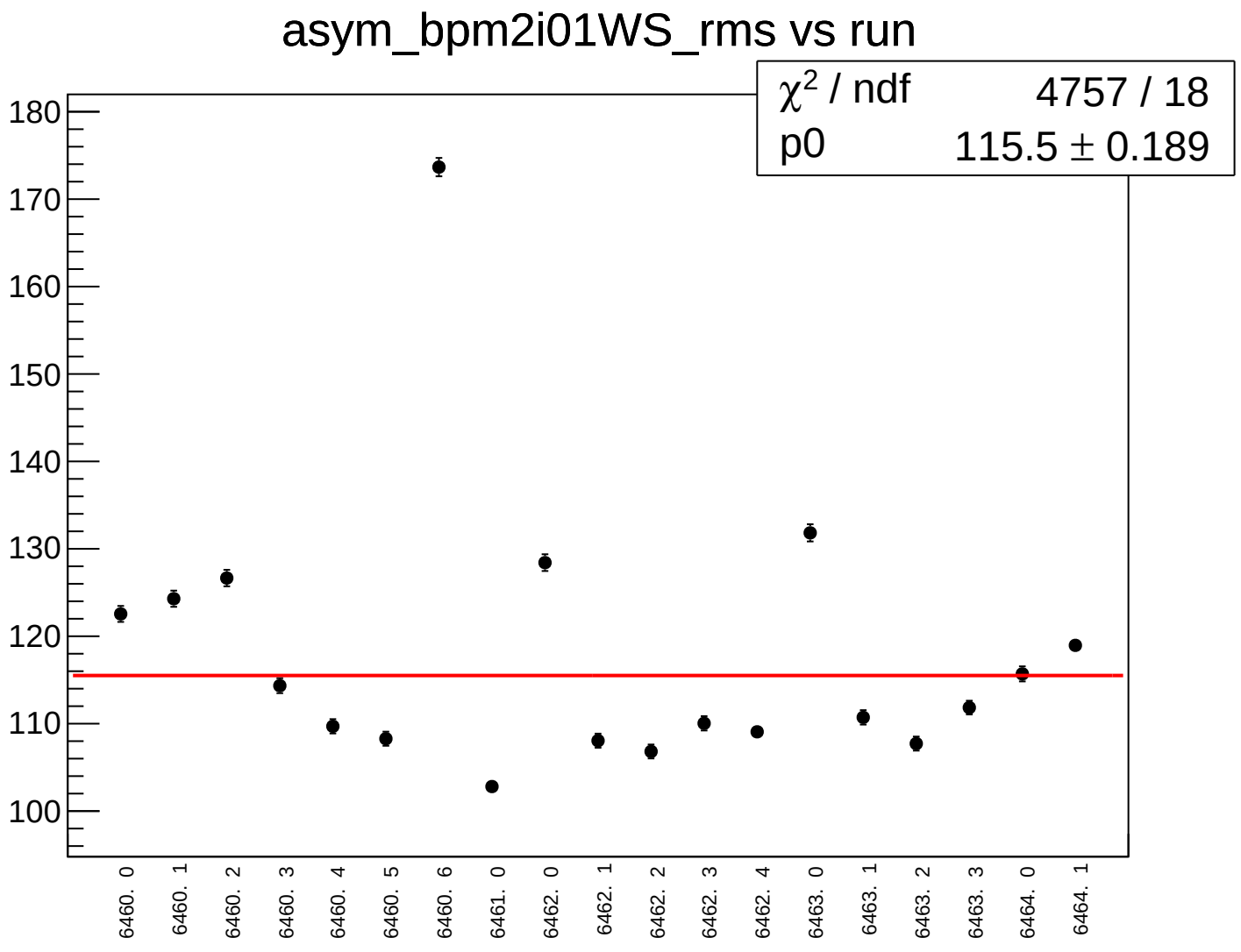

pull1D
Entries 19
Mean 0.1084
Std Dev 2.825
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

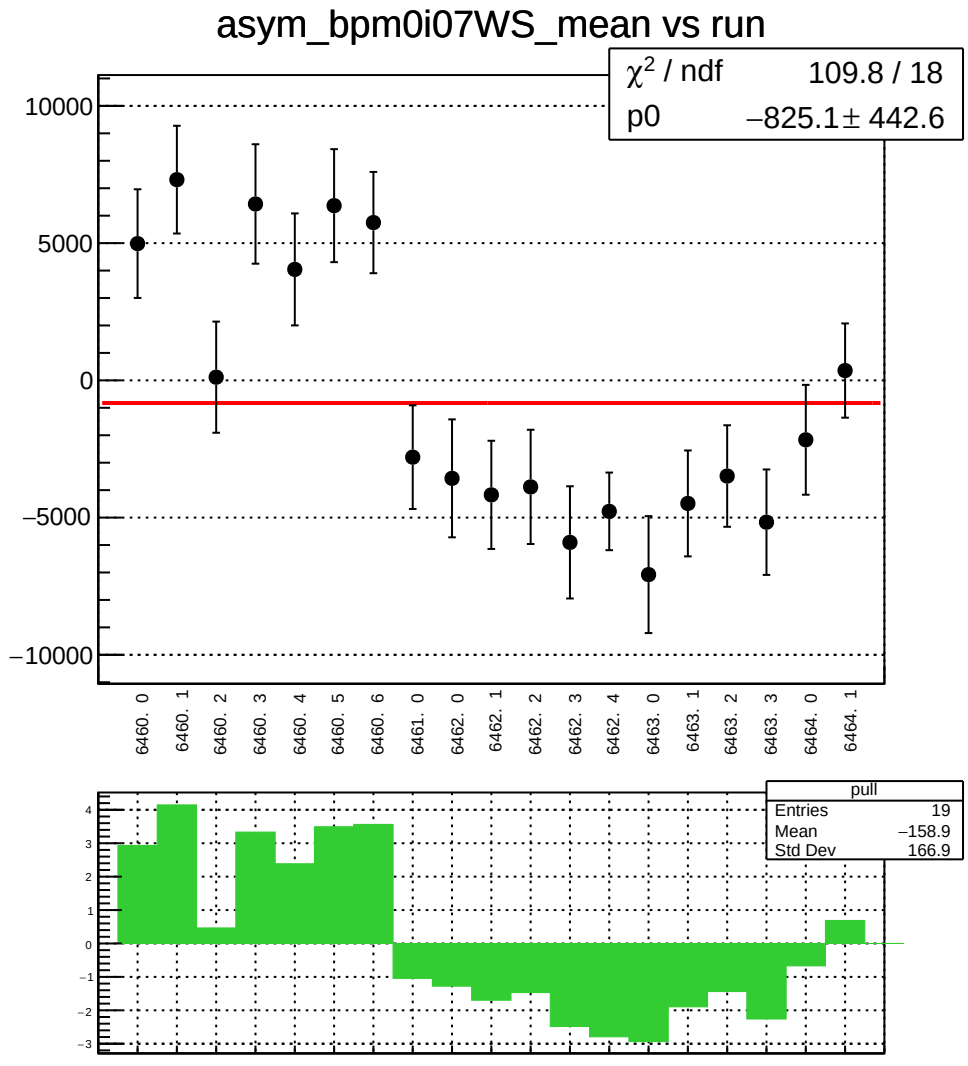

asym_bcm0l02_rms vs run
χ² / ndf 1349 / 18
p0 221.8 ± 0.3612
260
250
240
230
220
210
200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

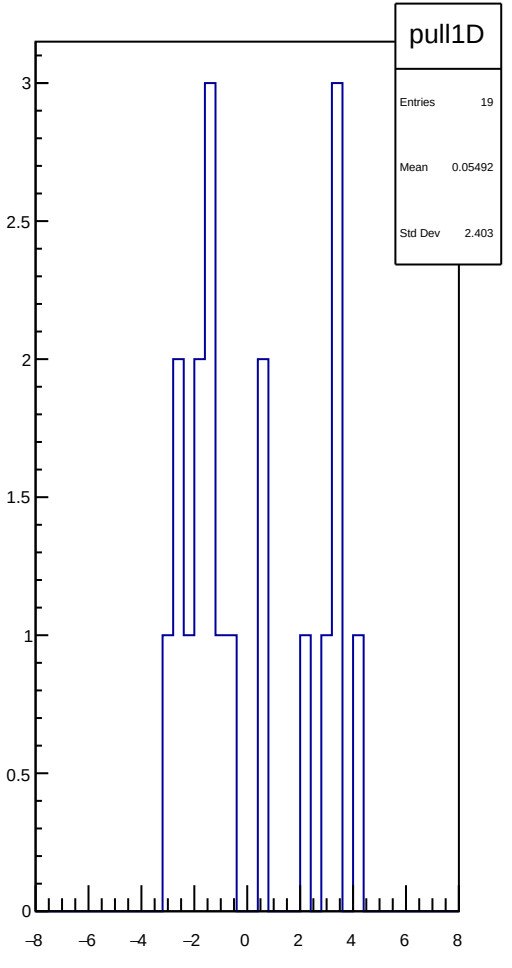

asym_bpm2i01WS_mean vs run
χ² / ndf 252.5 / 18
p0 1089 ± 267.2
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

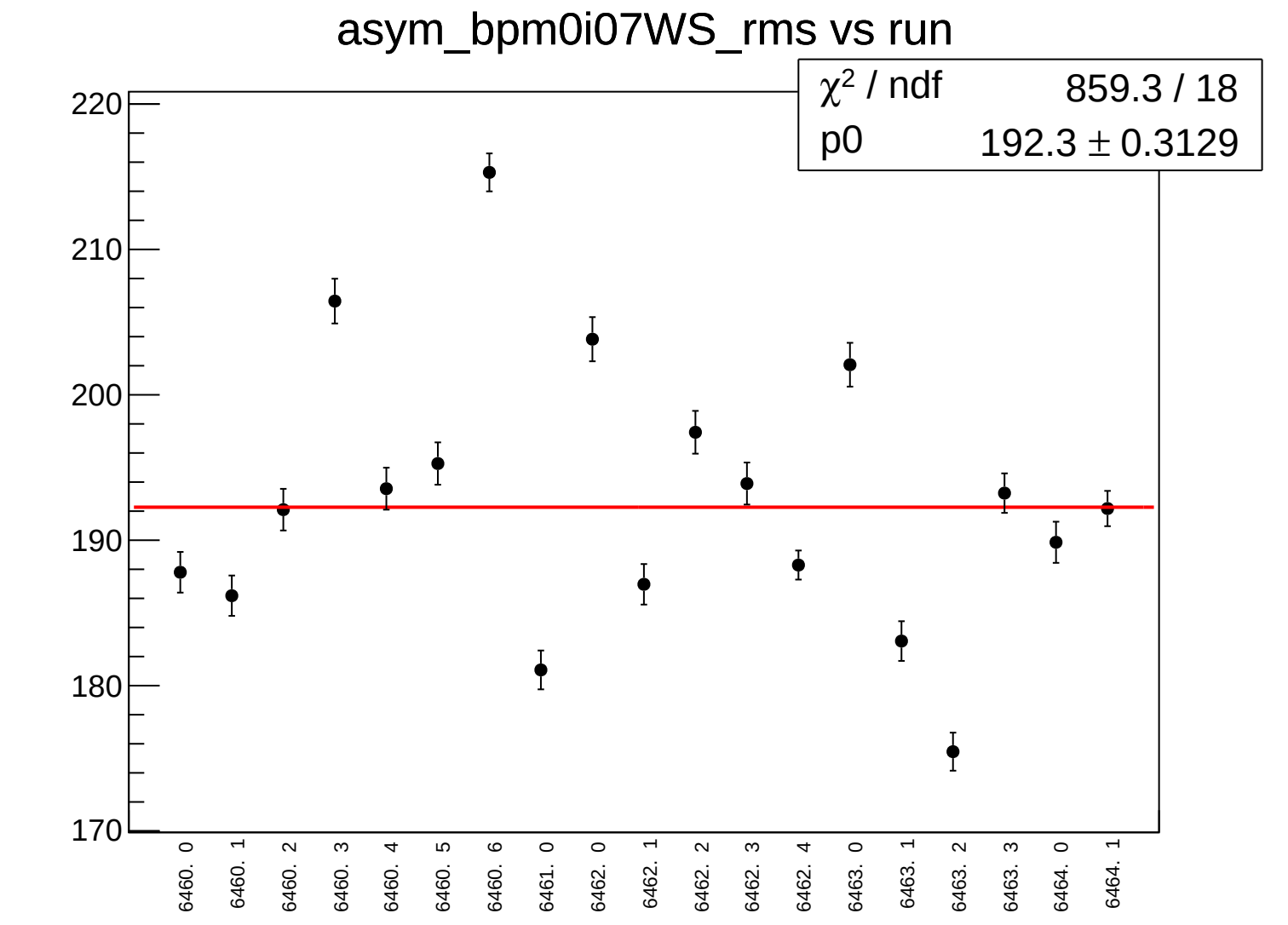

pull
Entries 19
Mean −106.6
Std Dev 115.9
8
6
4
2
0
−2
−4
−6

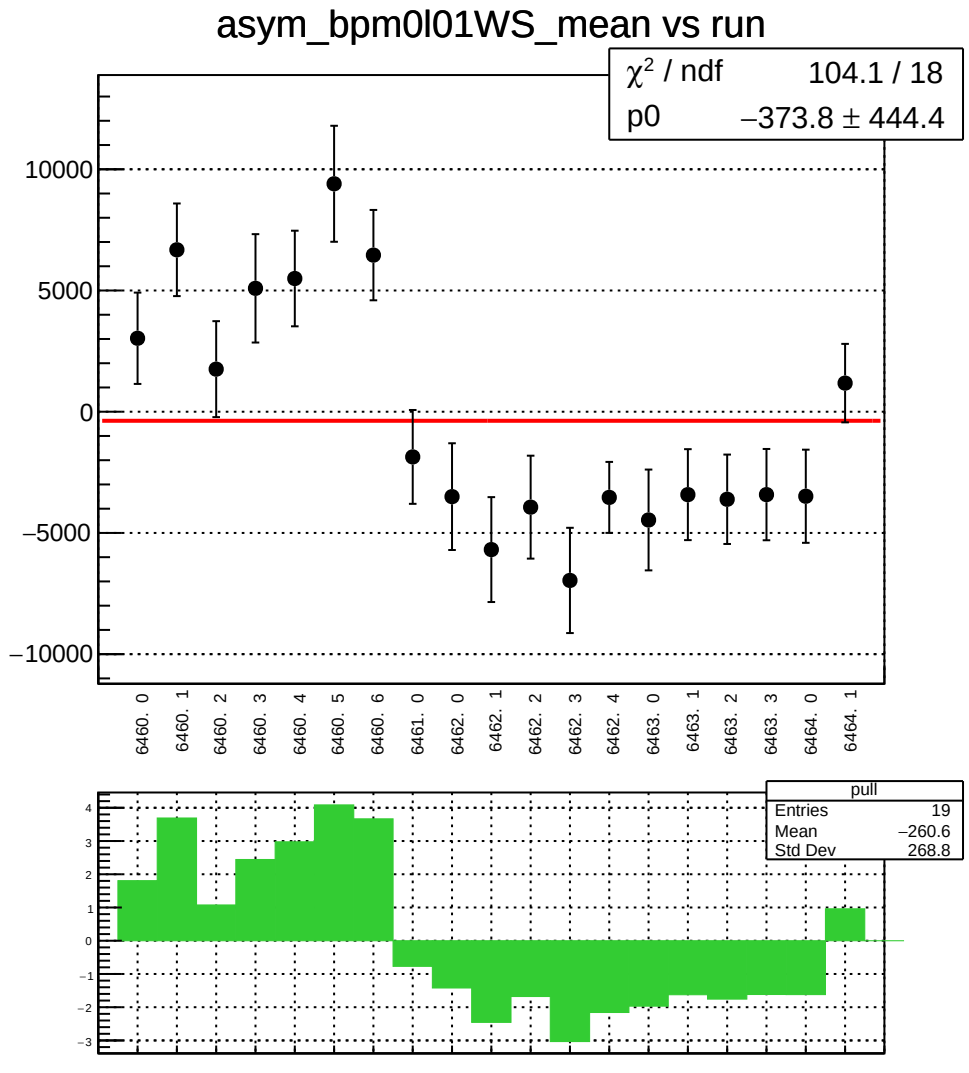

pull1D
Entries 19
Mean −0.351
Std Dev 3.176
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

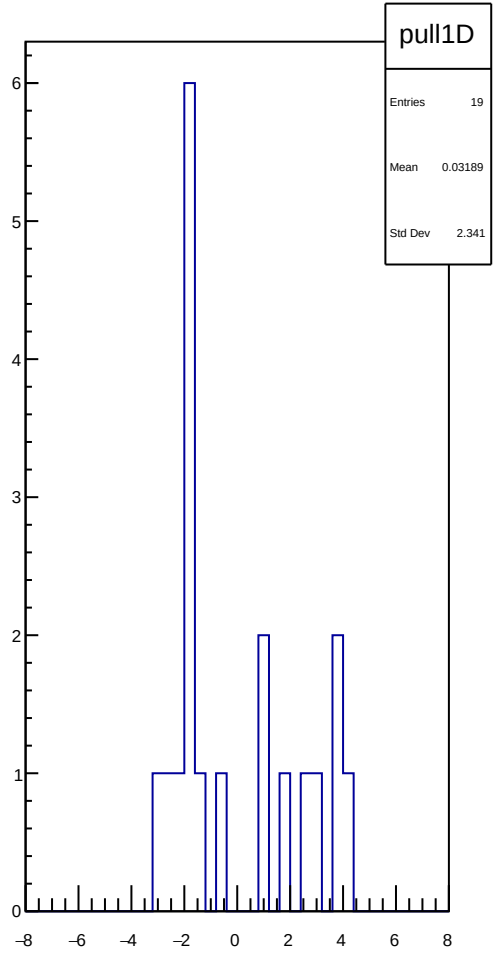

asym_bpm2i01WS_rms vs run
χ² / ndf 4757 / 18
p0 115.5 ± 0.189
180
170
160
150
140
130
120
110
100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

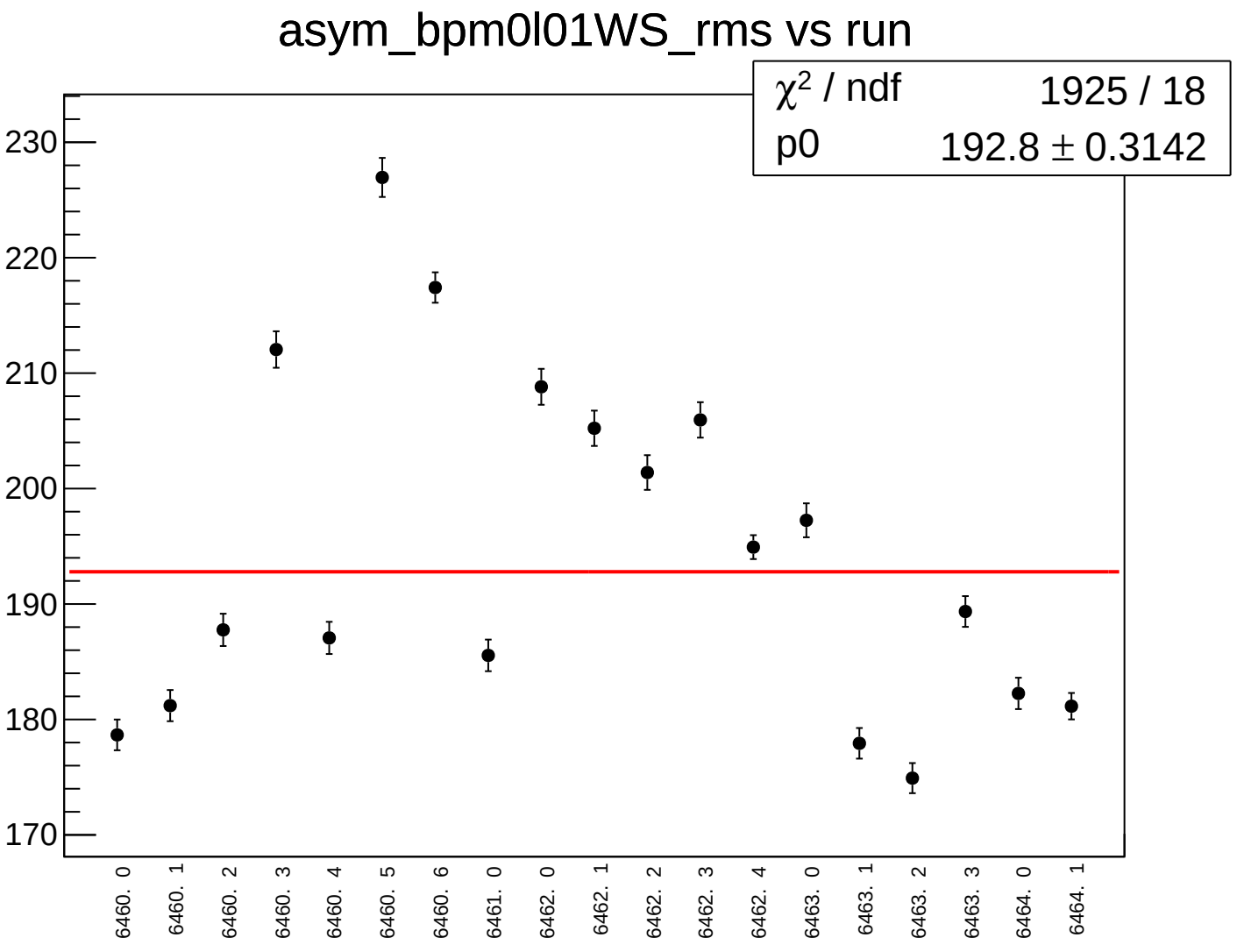

asym_bpm0i07WS_mean vs run
χ² / ndf 109.8 / 18
p0 −825.1 ± 442.6
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −158.9
Std Dev 166.9
4
3
2
1
0
−1
−2
−3

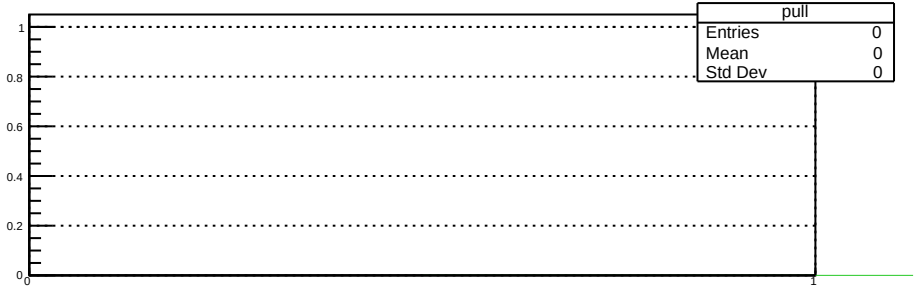

pull1D
Entries 19
Mean 0.05492
Std Dev 2.403
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

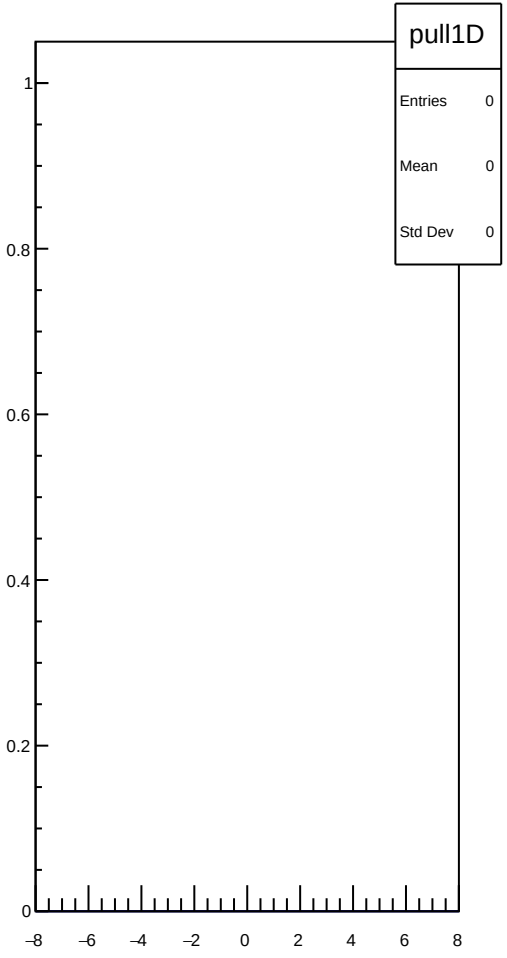

asym_bpm0i07WS_rms vs run
χ² / ndf 859.3 / 18
p0 192.3 ± 0.3129
220
210
200
190
180
170
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

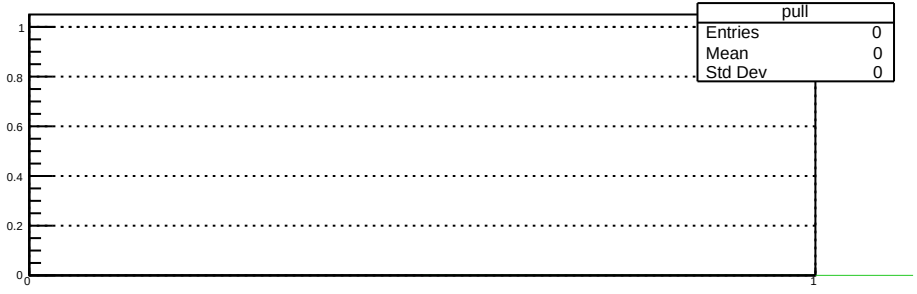

asym_bpm0l01WS_mean vs run
χ² / ndf 104.1 / 18
p0 −373.8 ± 444.4
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −260.6
Std Dev 268.8
4
3
2
1
0
−1
−2
−3

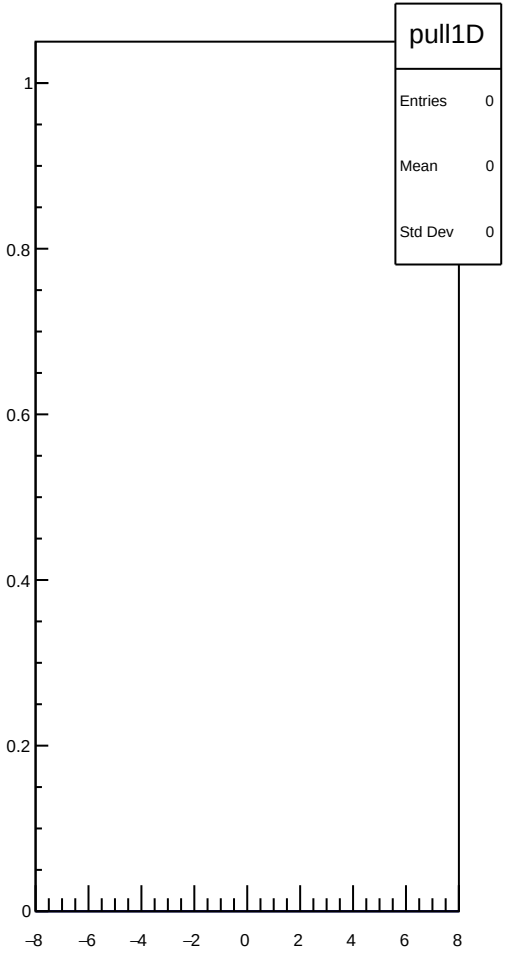

pull1D
Entries 19
Mean 0.03189
Std Dev 2.341
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

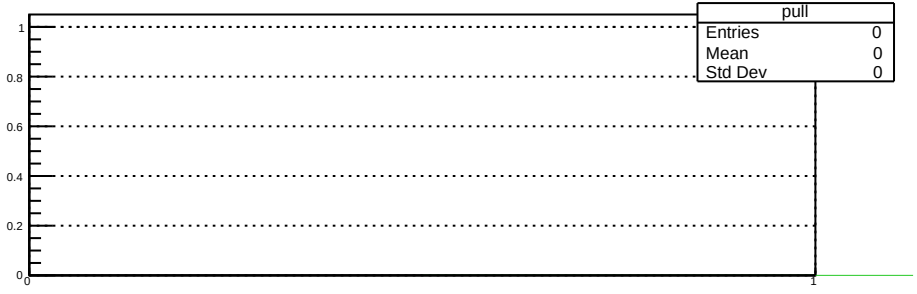

asym_bpm0l01WS_rms vs run
χ² / ndf 1925 / 18
p0 192.8 ± 0.3142
230
220
210
200
190
180
170
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

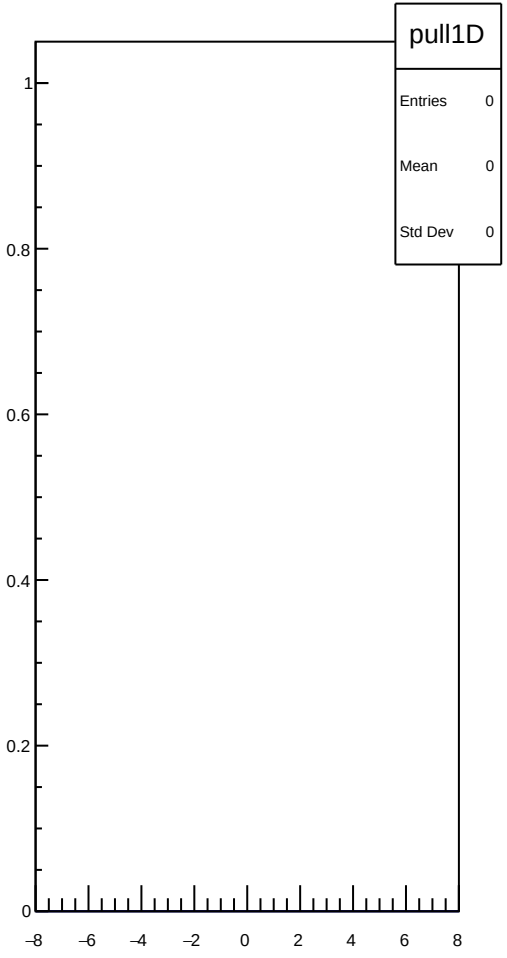

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

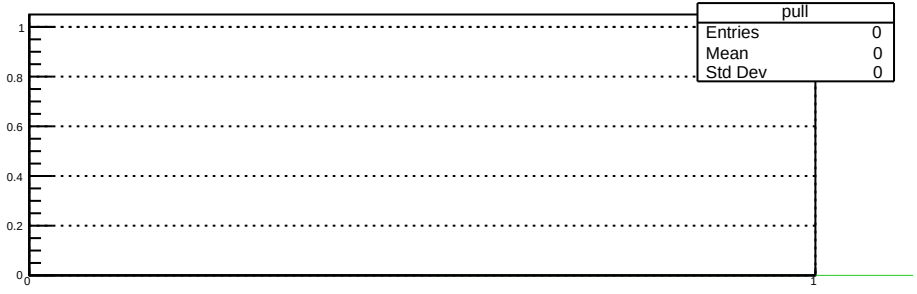

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

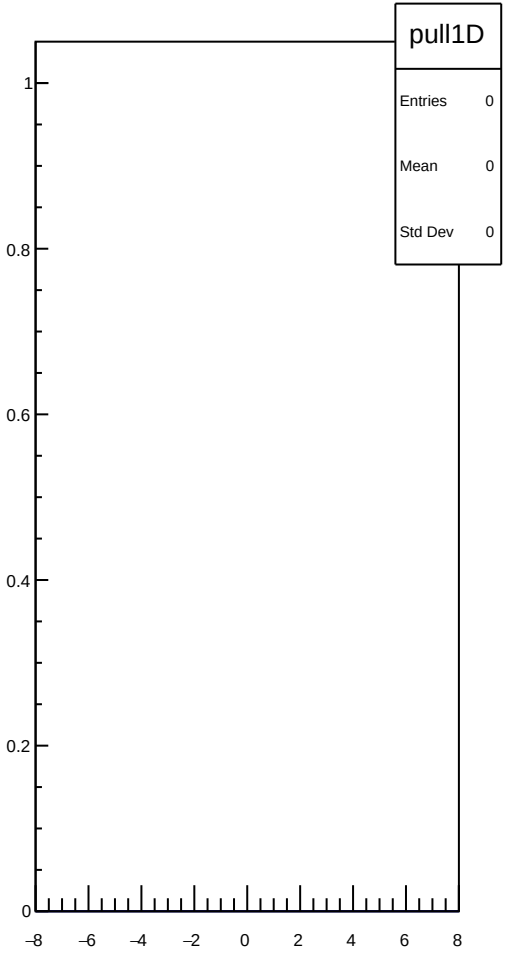

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

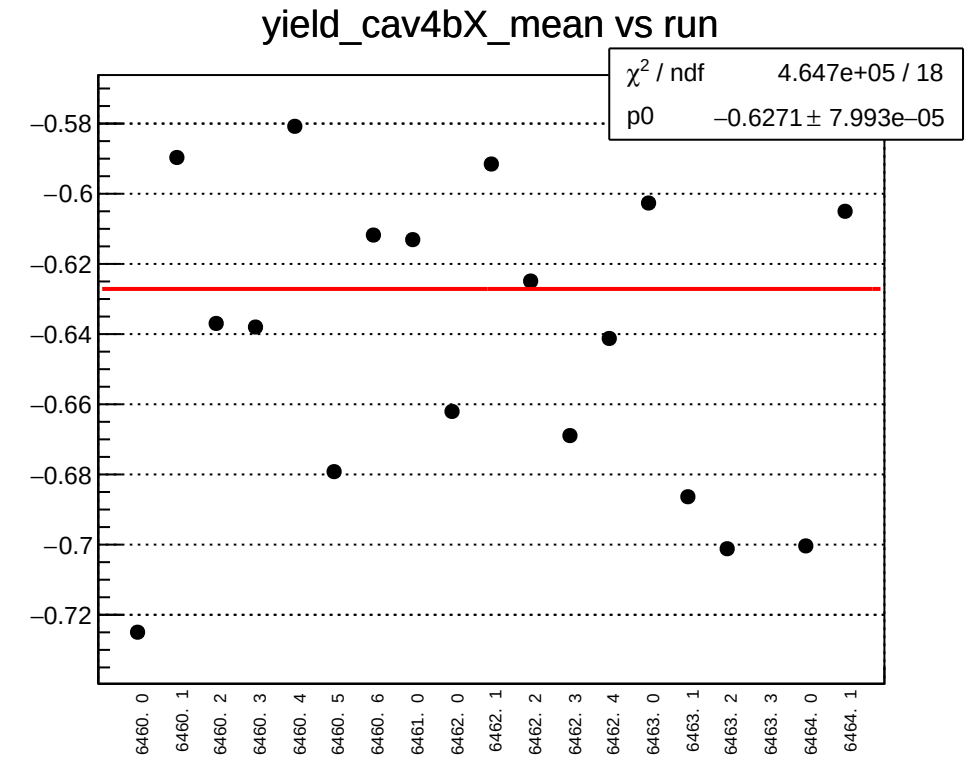

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

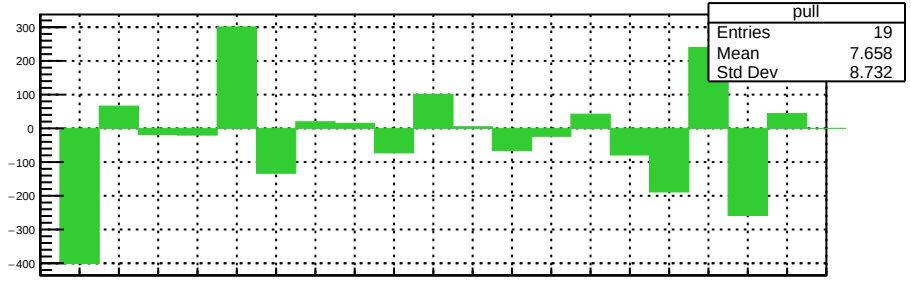

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

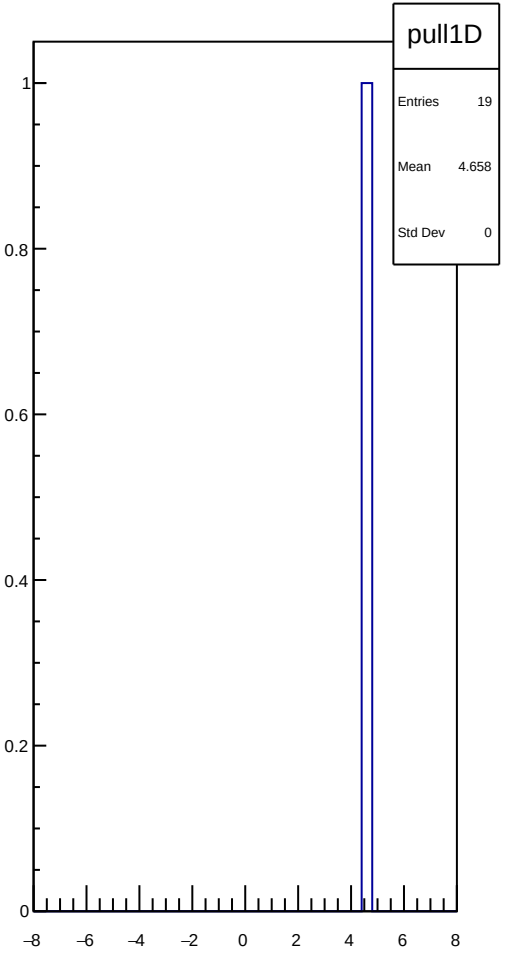

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

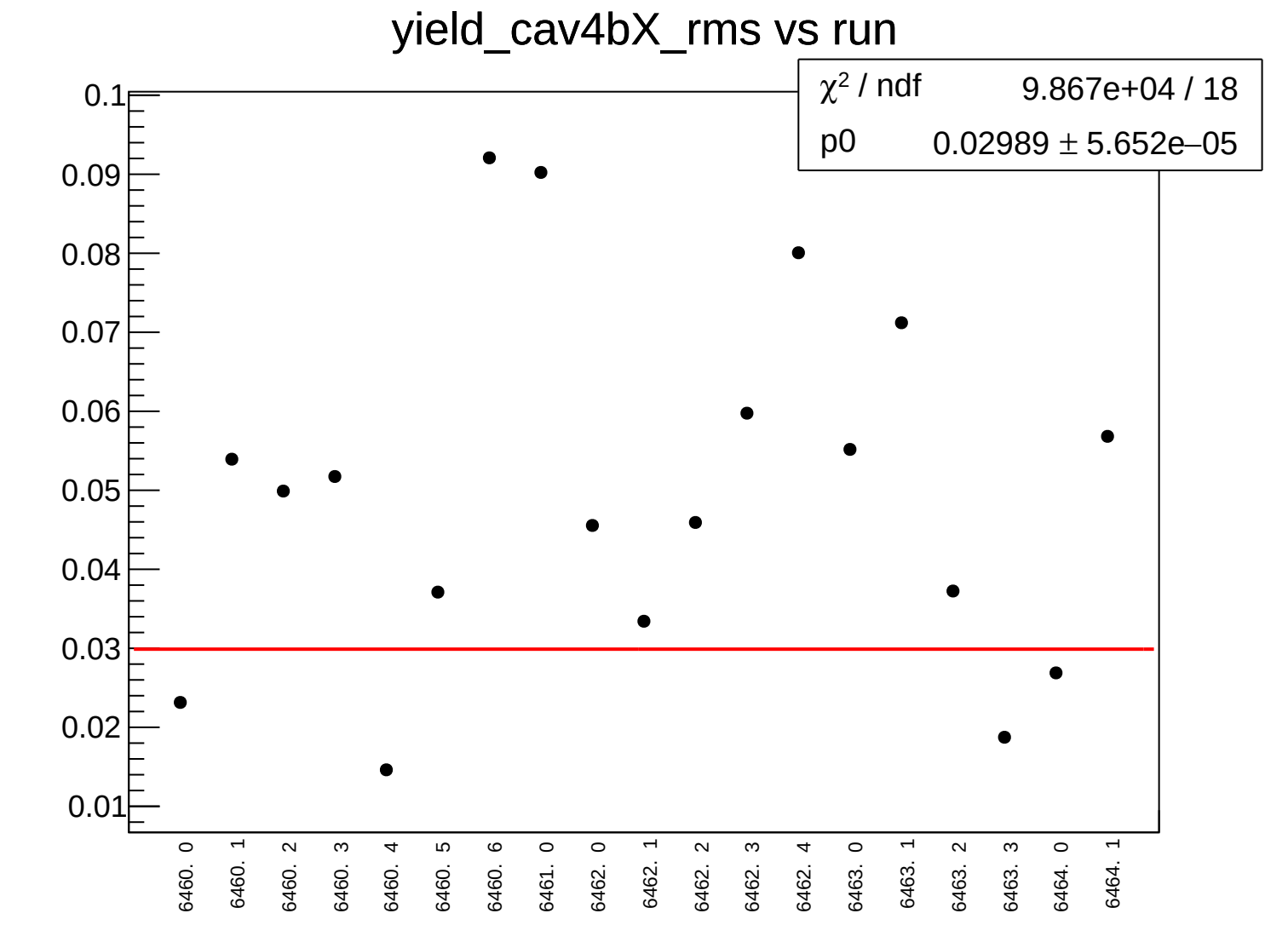

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

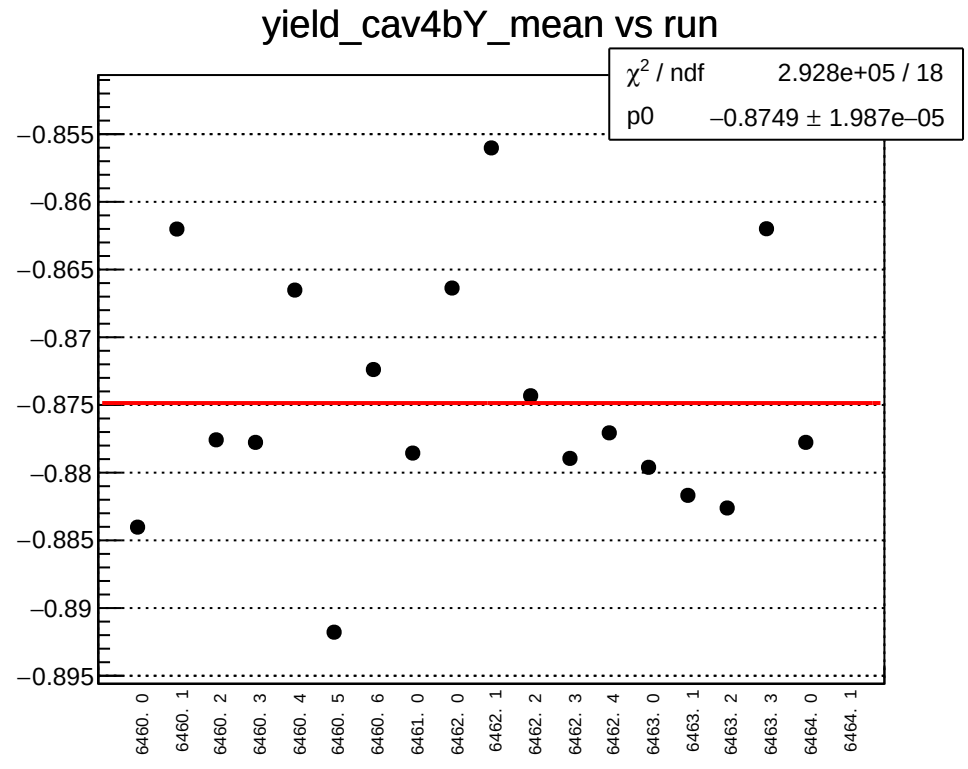

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

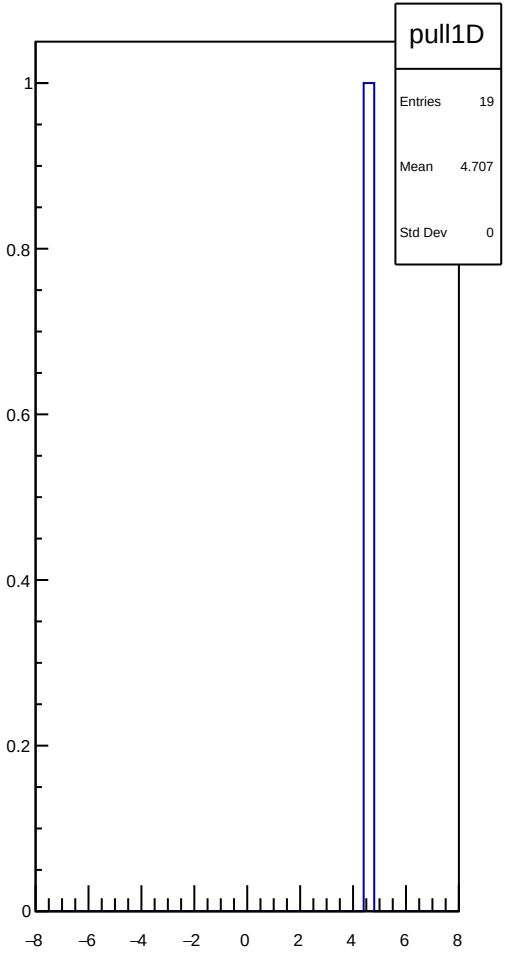

yield_cav4bX_mean vs run
χ² / ndf 4.647e+05 / 18
p0 −0.6271 ± 7.993e−05
−0.58
−0.6
−0.62
−0.64
−0.66
−0.68
−0.7
−0.72
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

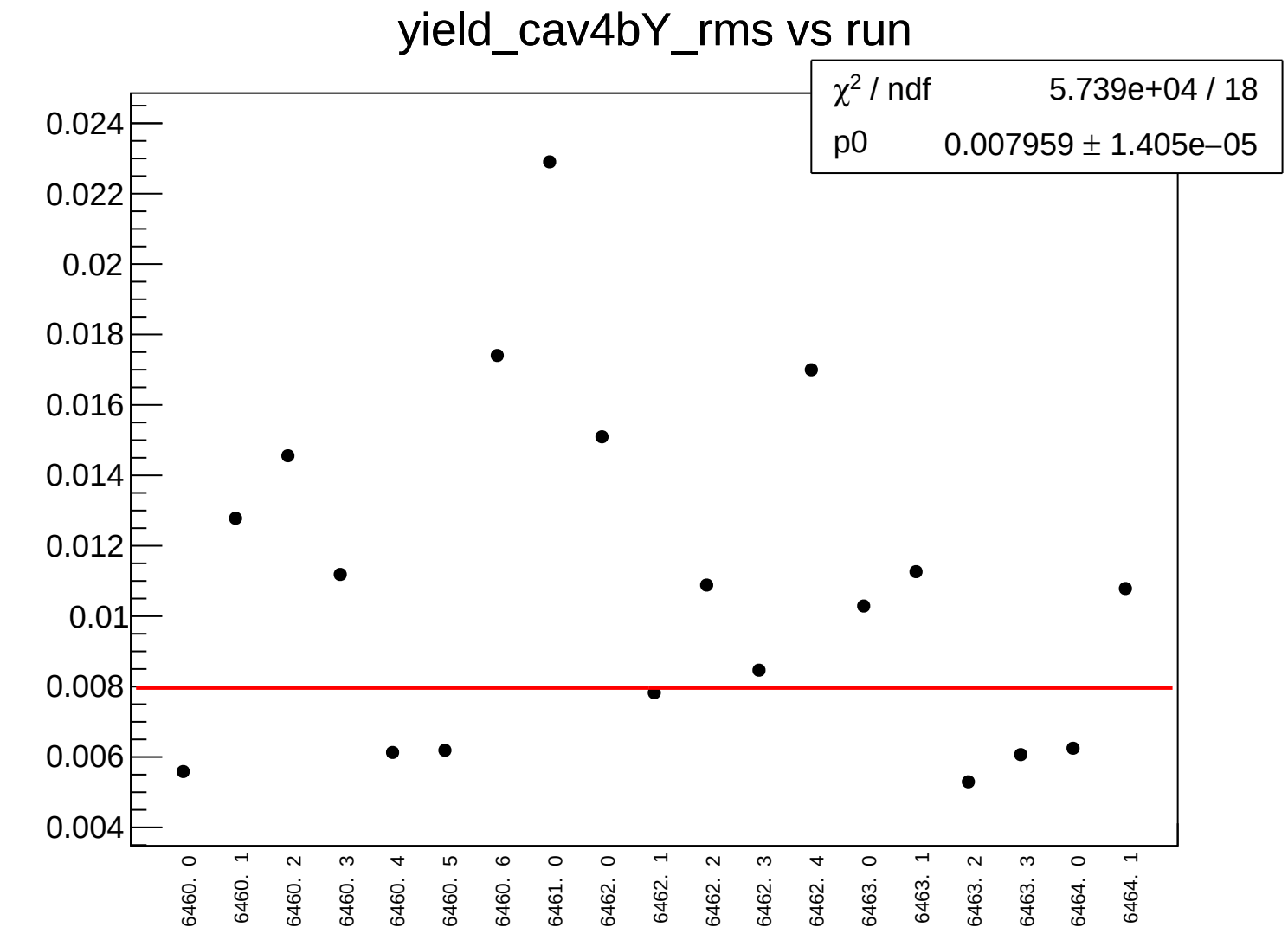

pull
Entries 19
Mean 7.658
Std Dev 8.732
300
200
100
0
−100
−200
−300
−400

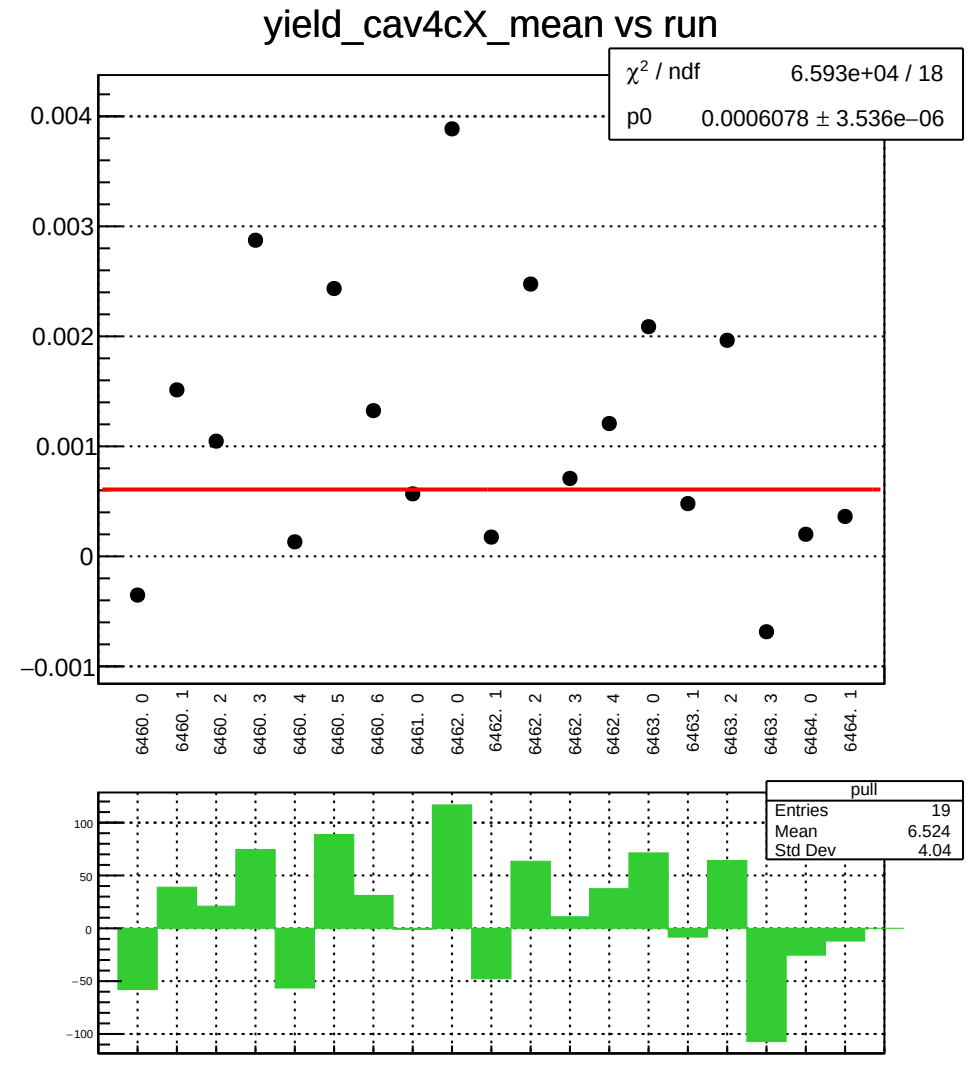

pull1D
Entries 19
Mean 4.658
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

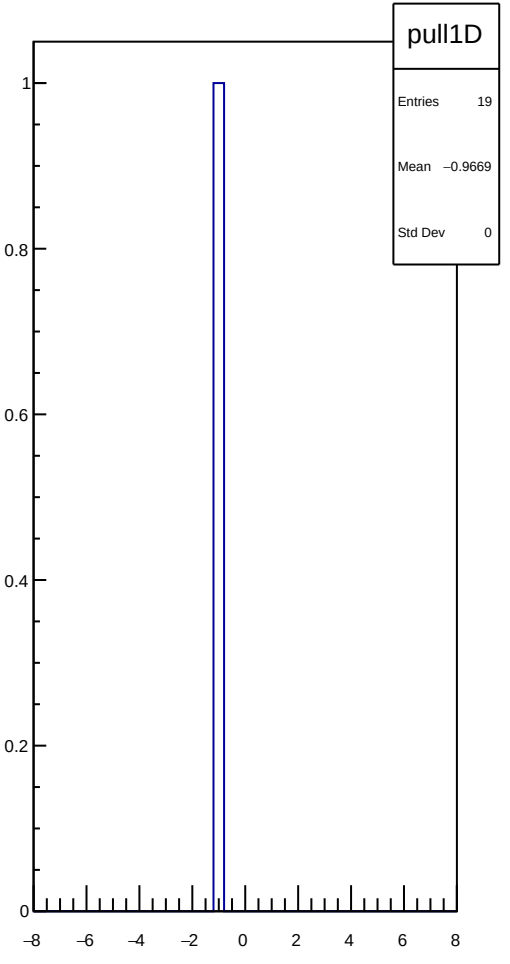

yield_cav4bX_rms vs run
χ² / ndf 9.867e+04 / 18
p0 0.02989 ± 5.652e−05
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

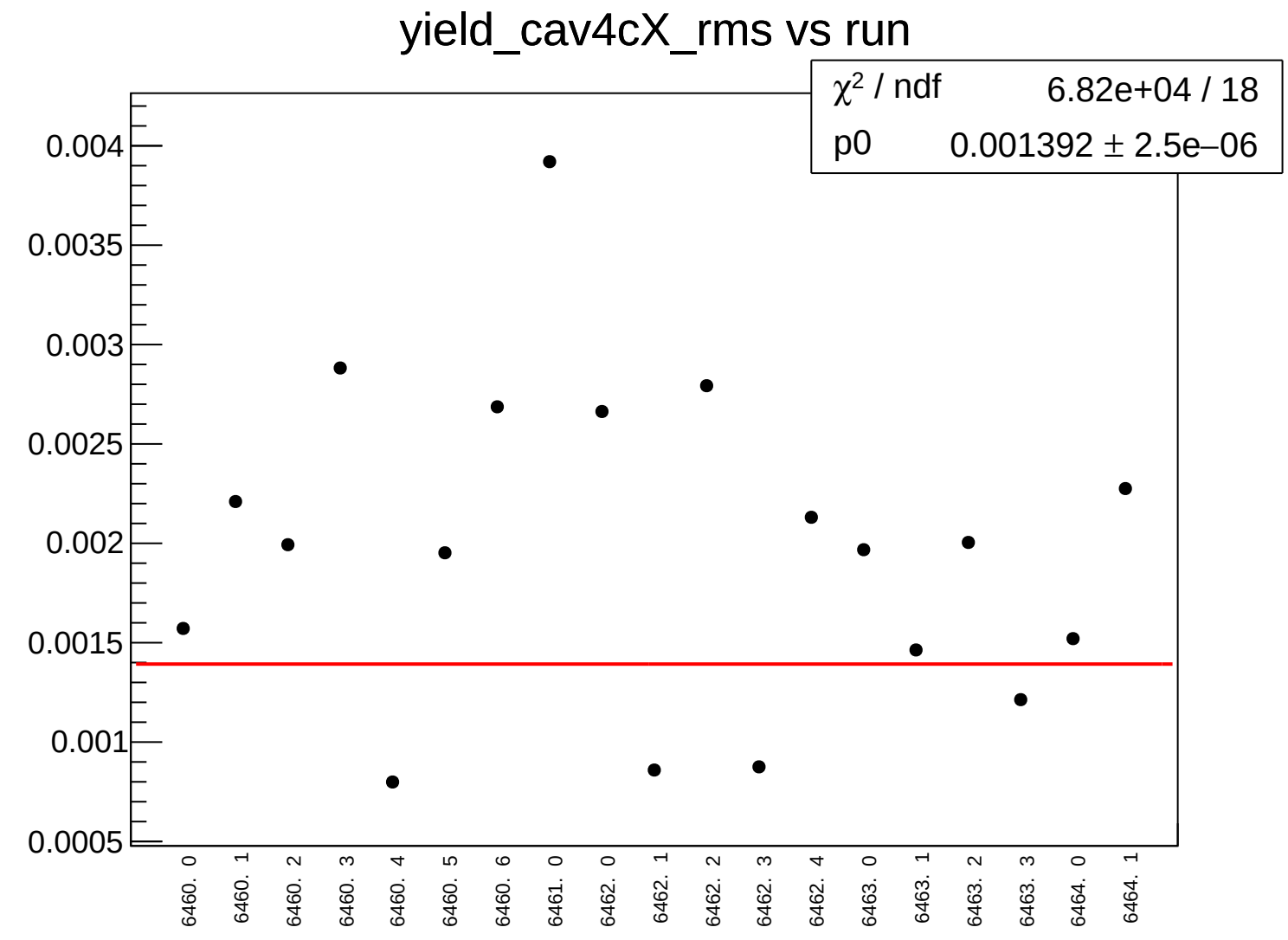

yield_cav4bY_mean vs run
χ² / ndf 2.928e+05 / 18
p0 −0.8749 ± 1.987e−05
−0.855
−0.86
−0.865
−0.87
−0.875
−0.88
−0.885
−0.89
−0.895
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 30.88
Std Dev 19.87
200
100
0
−100
−200

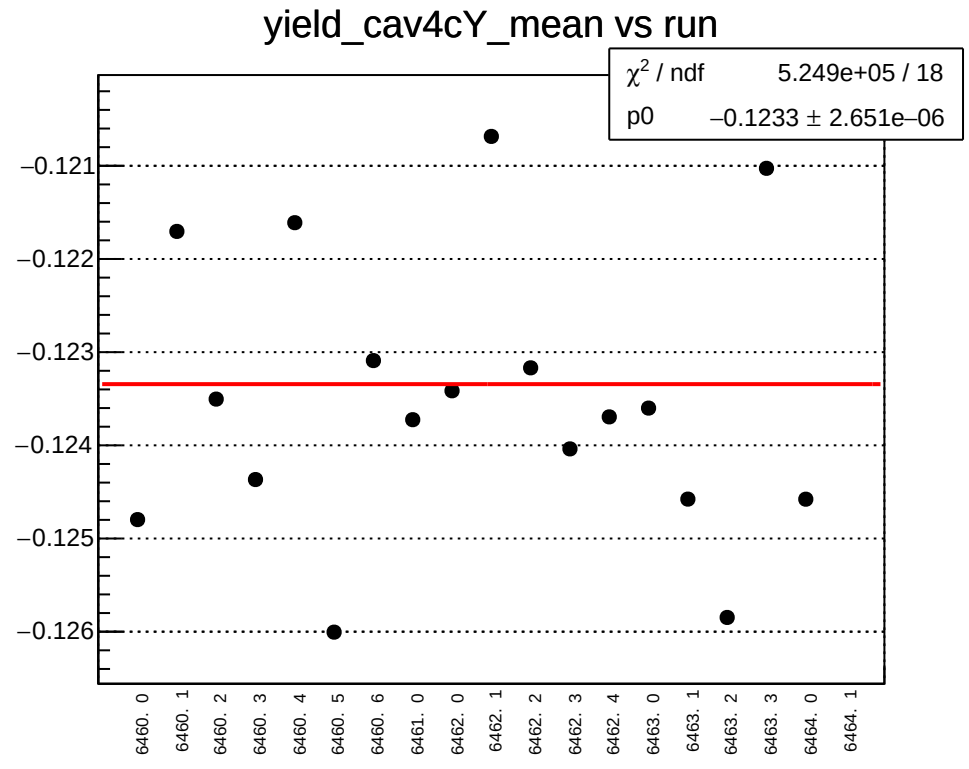

pull1D
Entries 19
Mean 4.707
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

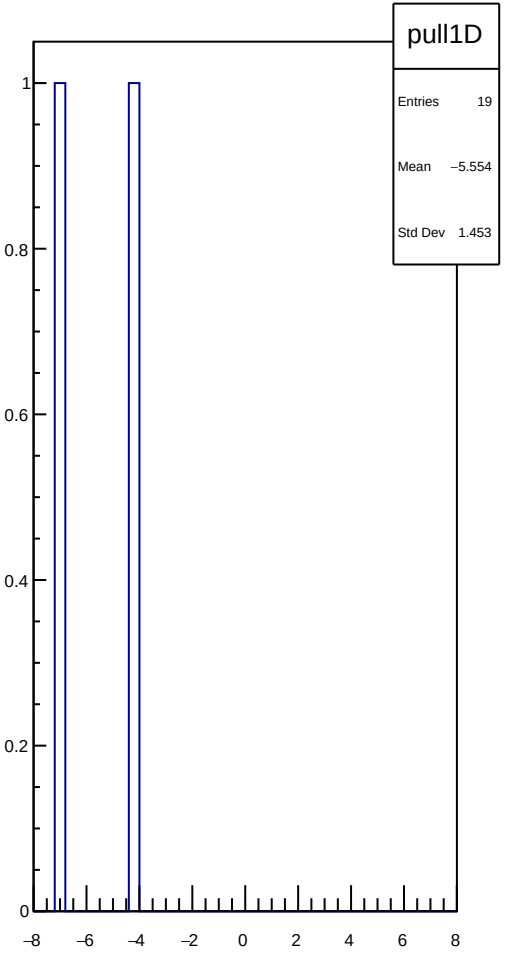

yield_cav4bY_rms vs run
χ² / ndf 5.739e+04 / 18
p0 0.007959 ± 1.405e−05
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

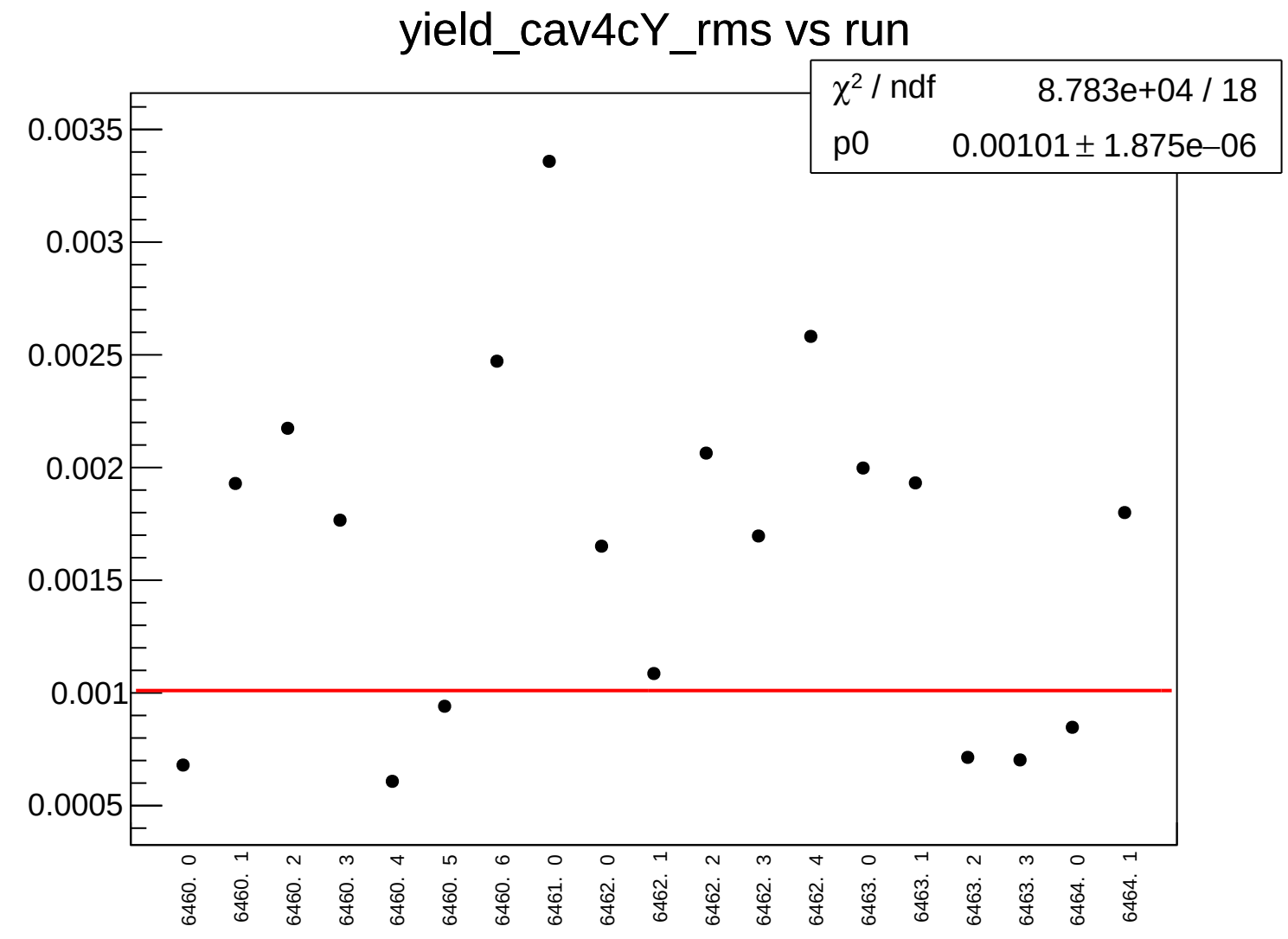

yield_cav4cX_mean vs run
χ² / ndf 6.593e+04 / 18
p0 0.0006078 ± 3.536e−06
0.004
0.003
0.002
0.001
0
−0.001
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 6.524
Std Dev 4.04
100
50
0
−50
−100

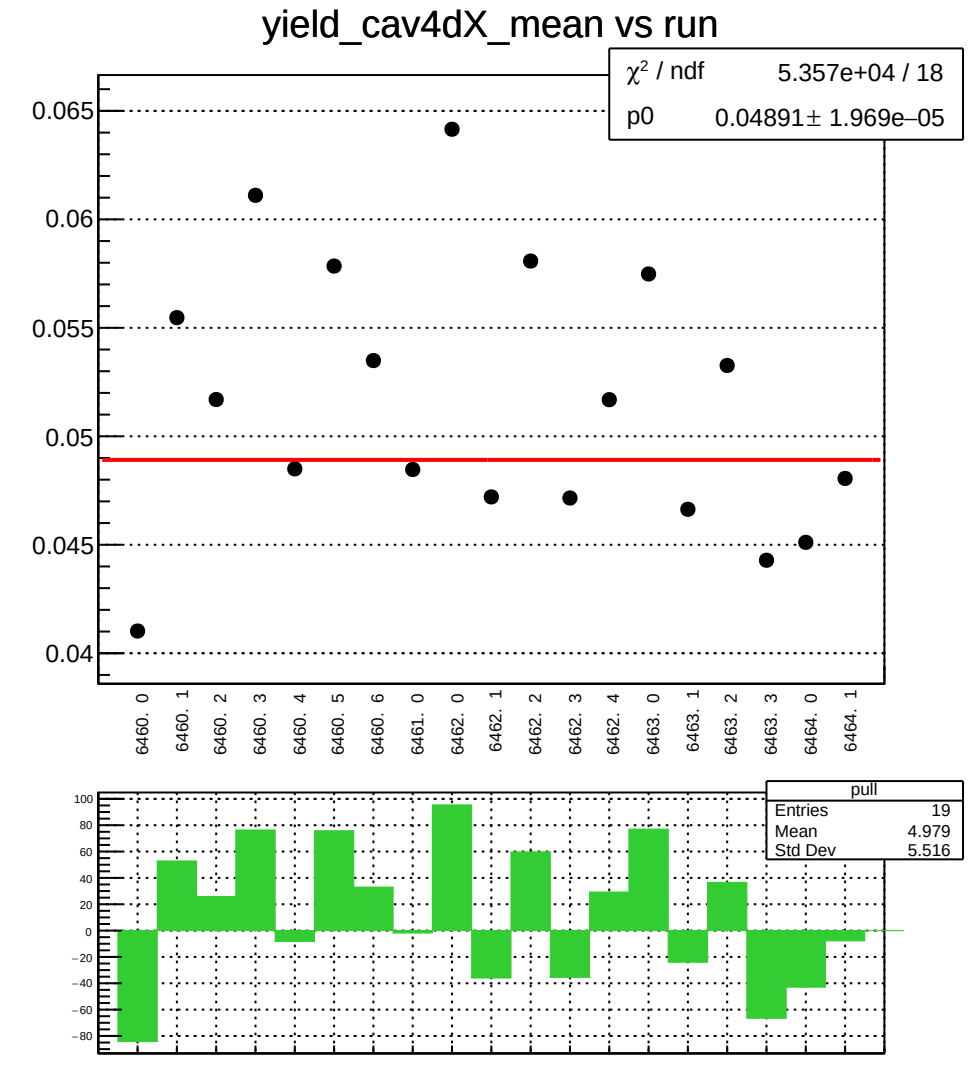

pull1D
Entries 19
Mean −0.9669
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

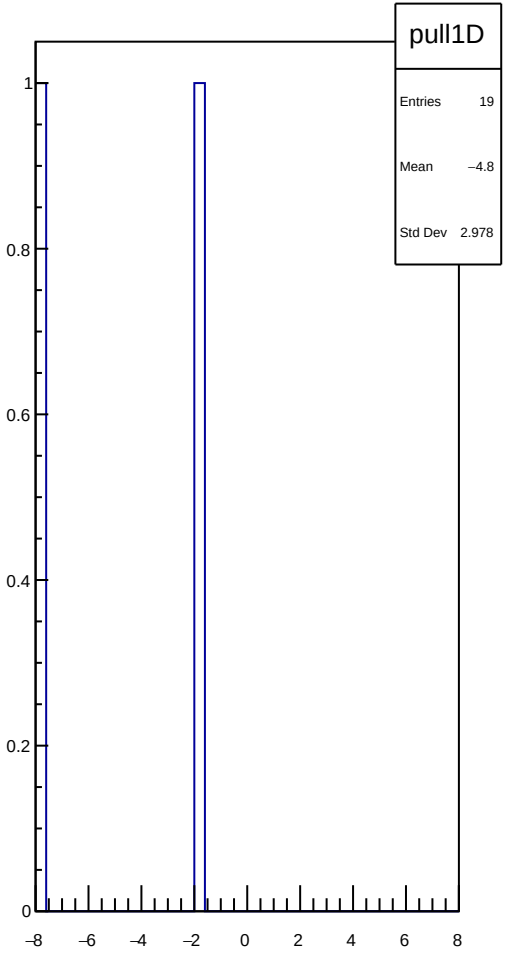

yield_cav4cX_rms vs run
χ² / ndf 6.82e+04 / 18
p0 0.001392 ± 2.5e−06
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

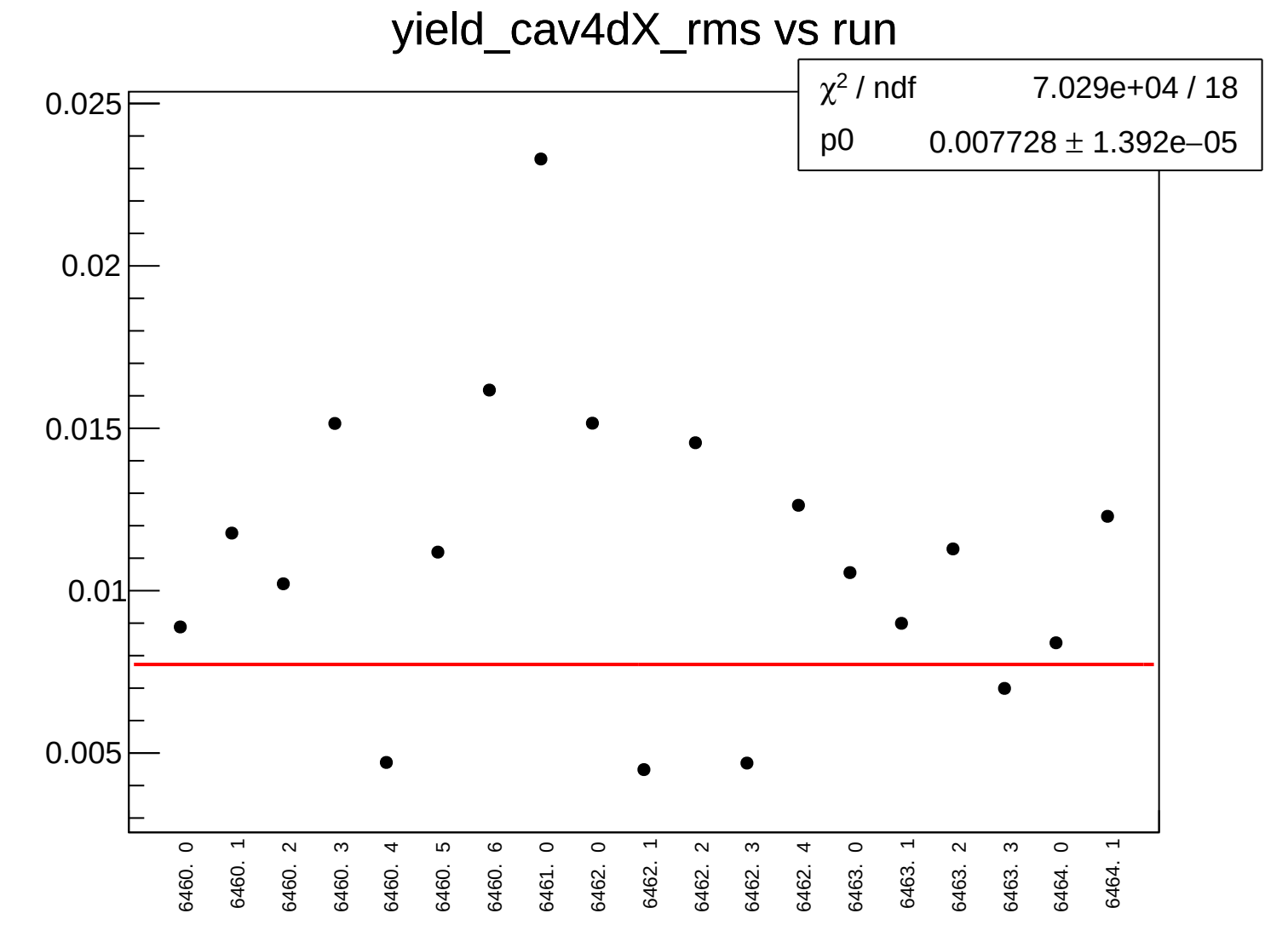

yield_cav4cY_mean vs run
χ² / ndf 5.249e+05 / 18
p0 −0.1233 ± 2.651e−06
−0.121
−0.122
−0.123
−0.124
−0.125
−0.126
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −26.94
Std Dev 35.2
300
200
100
0
−100
−200
−300

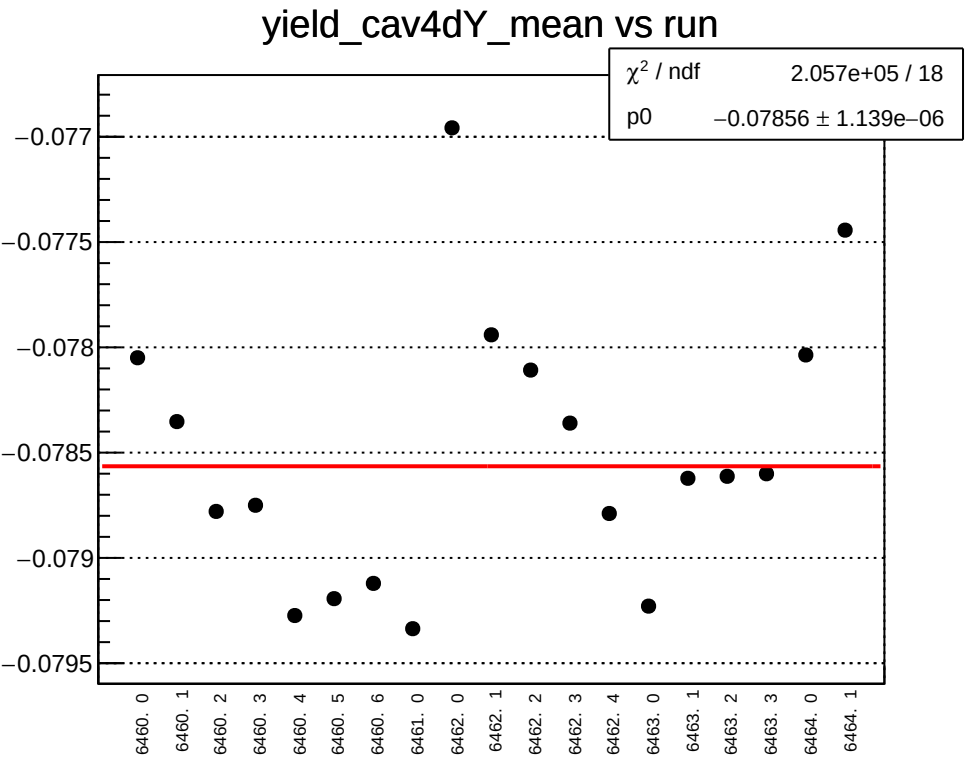

pull1D
Entries 19
Mean −5.554
Std Dev 1.453
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

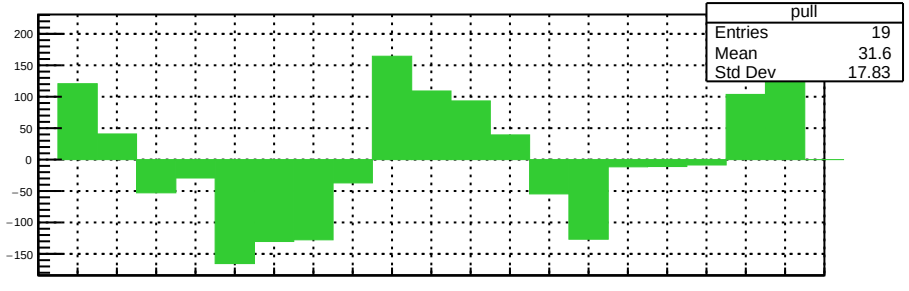

yield_cav4cY_rms vs run
χ² / ndf 8.783e+04 / 18
p0 0.00101 ± 1.875e–06
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

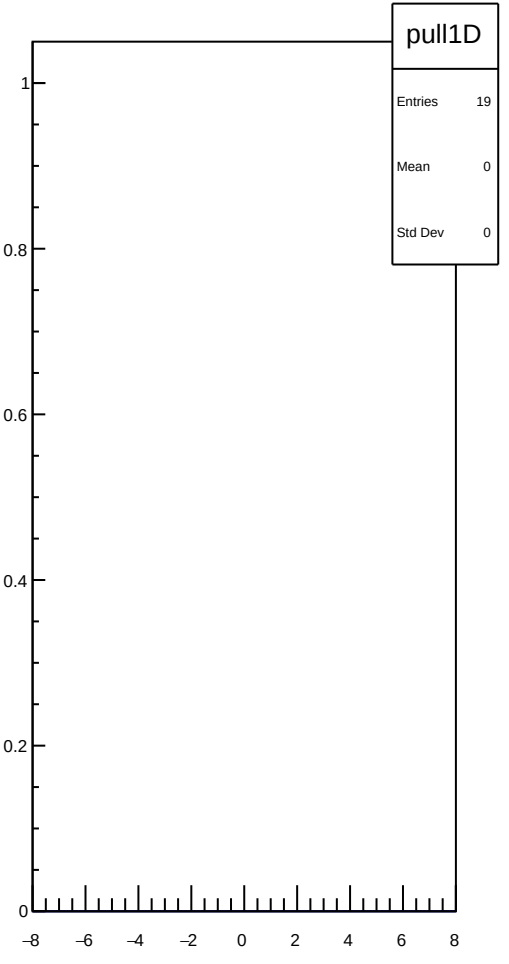

yield_cav4dX_mean vs run
χ² / ndf 5.357e+04 / 18
p0 0.04891± 1.969e−05
0.065
0.06
0.055
0.05
0.045
0.04
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 4.979
Std Dev 5.516
100
80
60
40
20
0
−20
−40
−60
−80

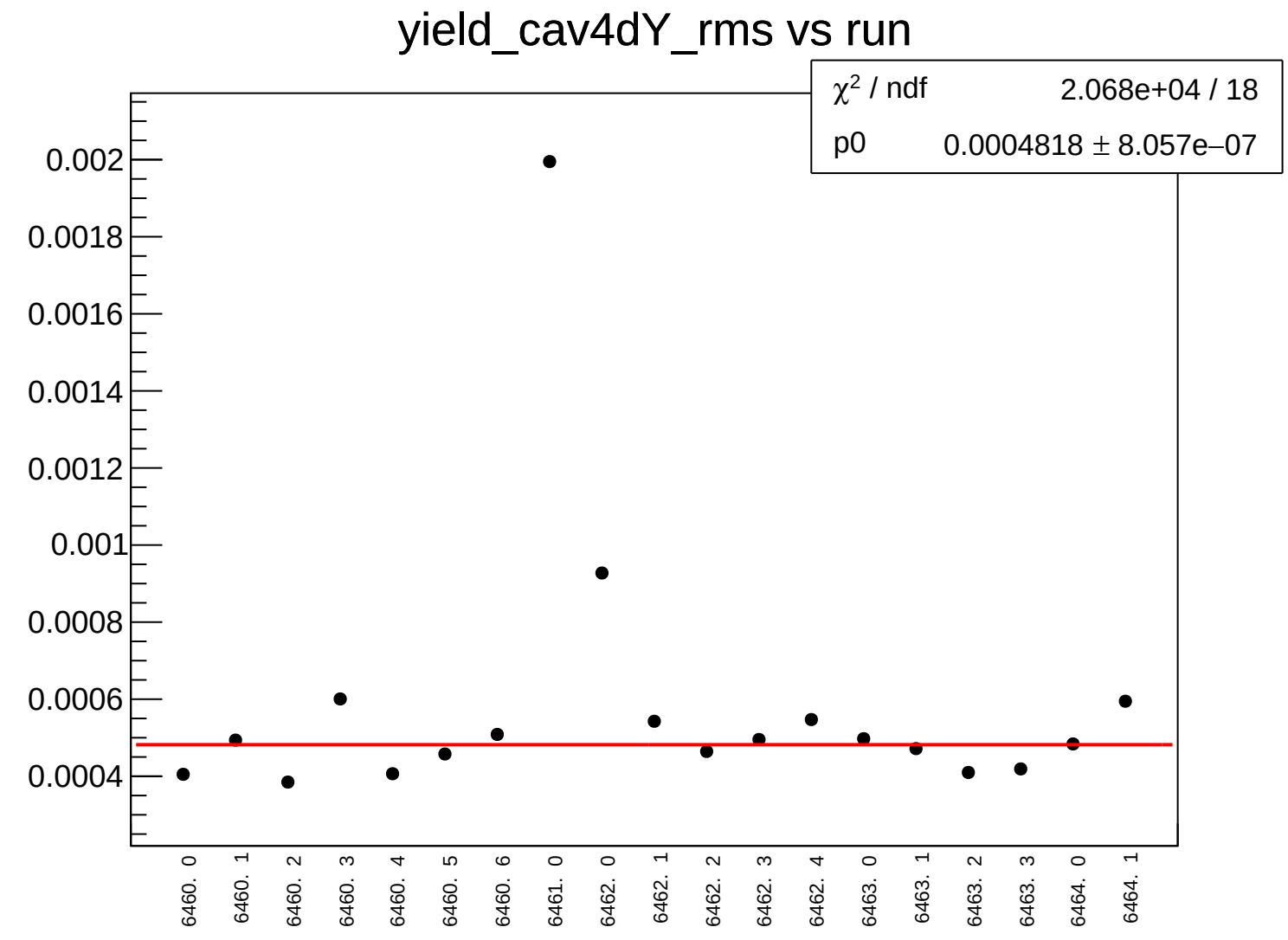

pull1D
Entries 19
Mean −4.8
Std Dev 2.978
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

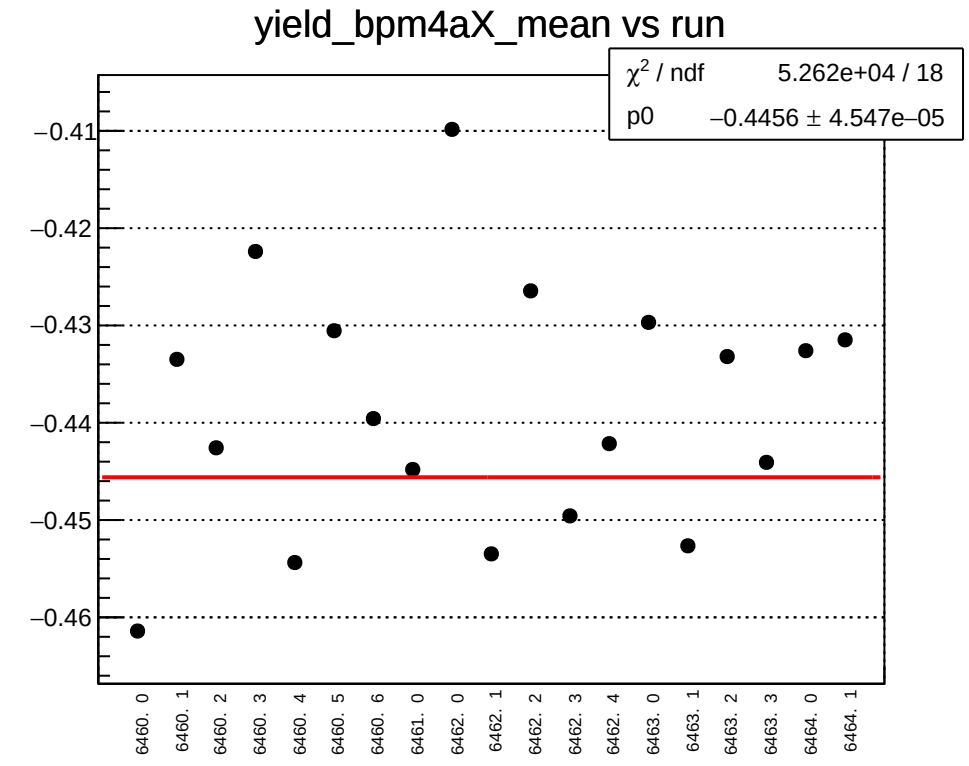

yield_cav4dX_rms vs run
χ² / ndf 7.029e+04 / 18
p0 0.007728 ± 1.392e−05
0.025
0.02
0.015
0.01
0.005
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

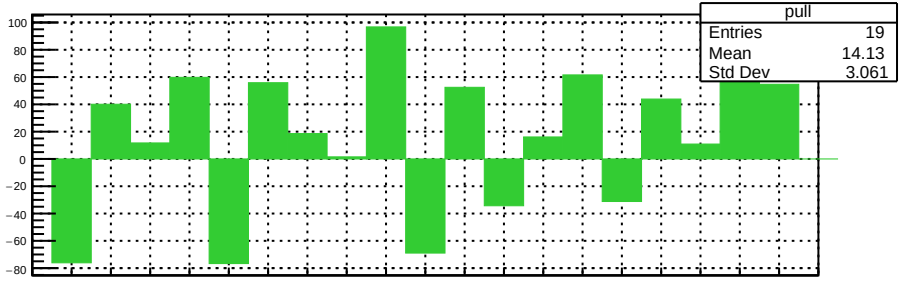

yield_cav4dY_mean vs run
χ² / ndf 2.057e+05 / 18
p0 −0.07856 ± 1.139e−06
−0.077
−0.0775
−0.078
−0.0785
−0.079
−0.0795
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

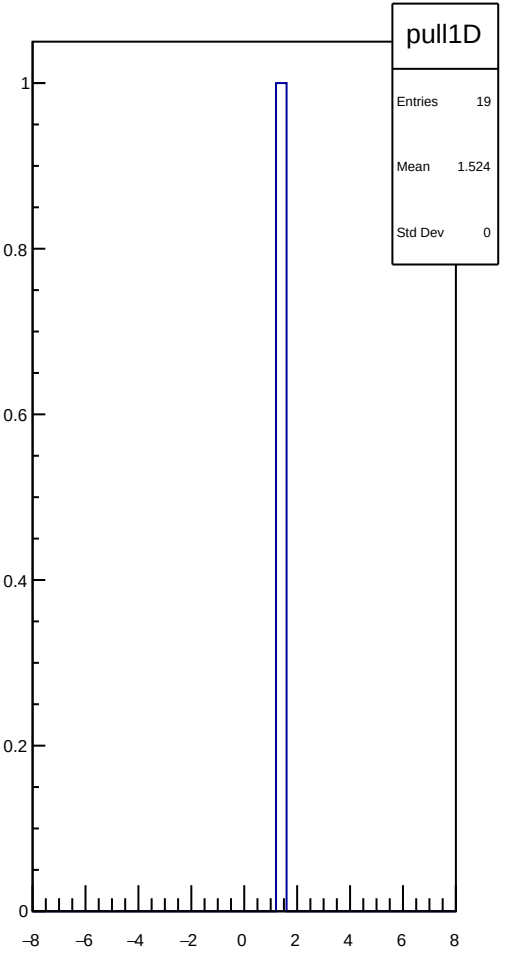

pull
Entries 19
Mean 31.6
Std Dev 17.83
200
150
100
50
0
−50
−100
−150

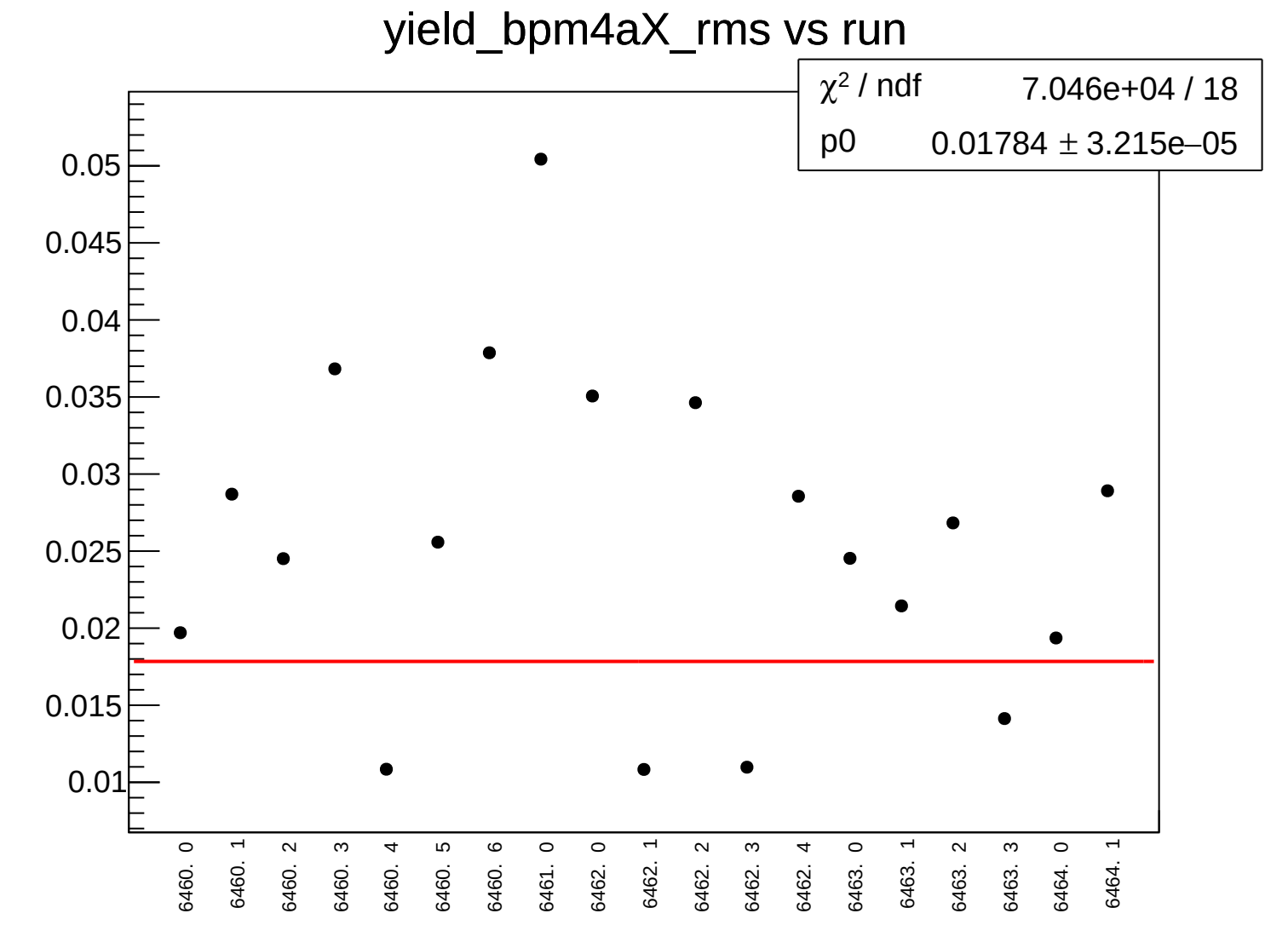

pull1D
Entries 19
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

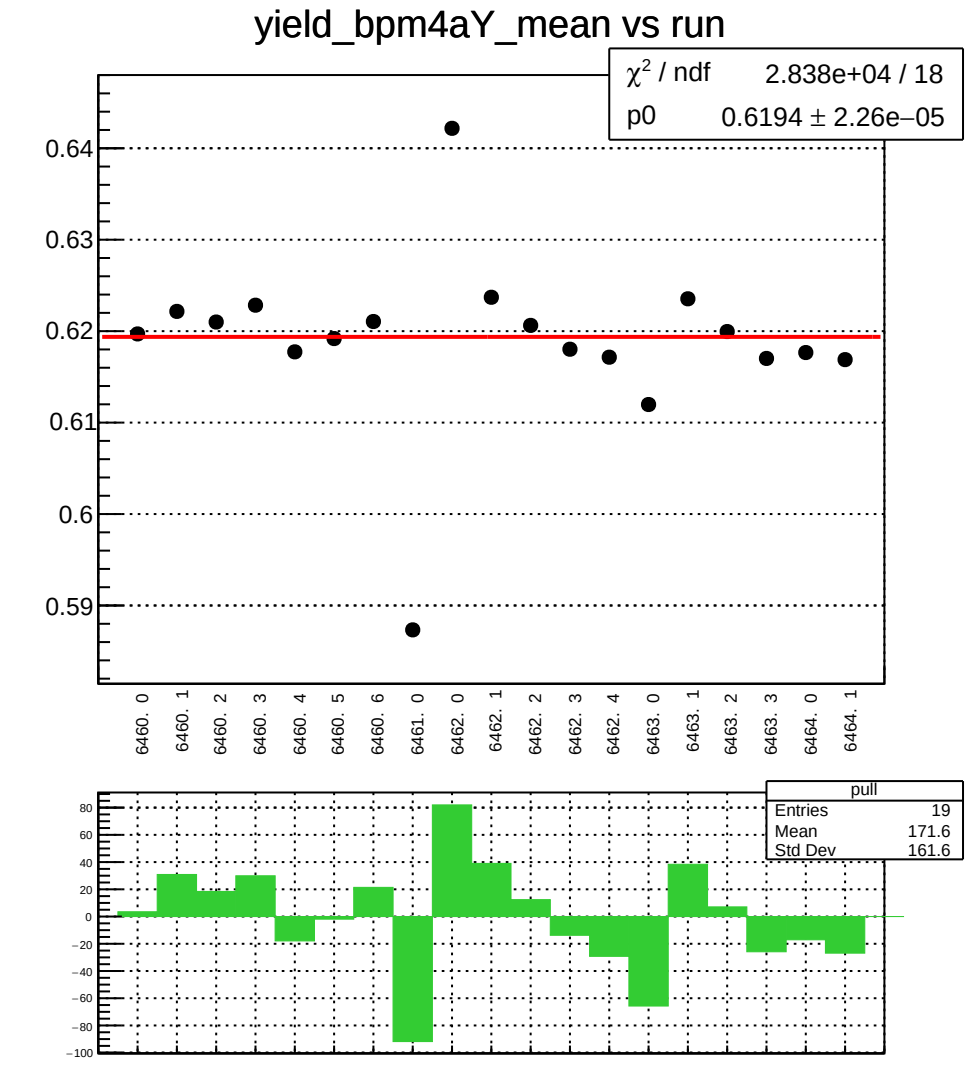

yield_cav4dY_rms vs run
χ² / ndf 2.068e+04 / 18
p0 0.0004818 ± 8.057e−07
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

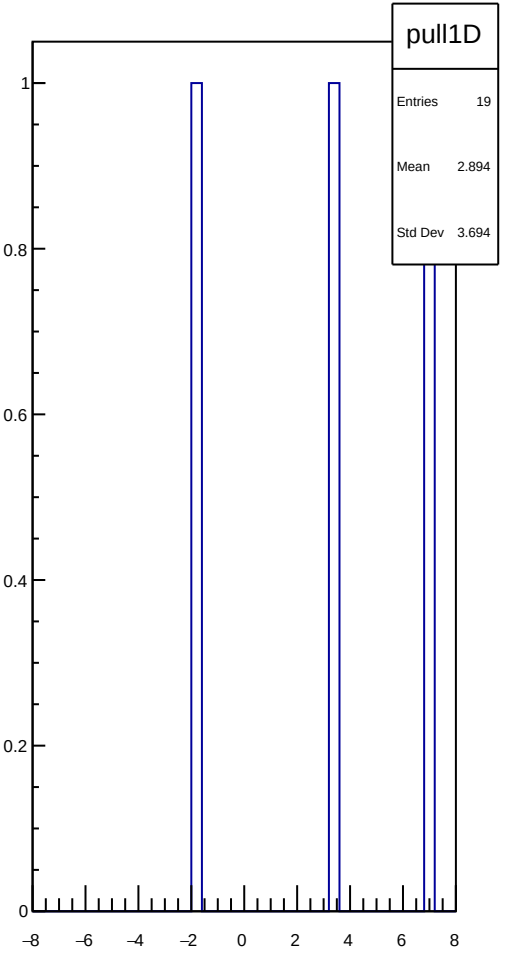

yield_bpm4aX_mean vs run
χ² / ndf 5.262e+04 / 18
p0 −0.4456 ± 4.547e−05
−0.41
−0.42
−0.43
−0.44
−0.45
−0.46
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

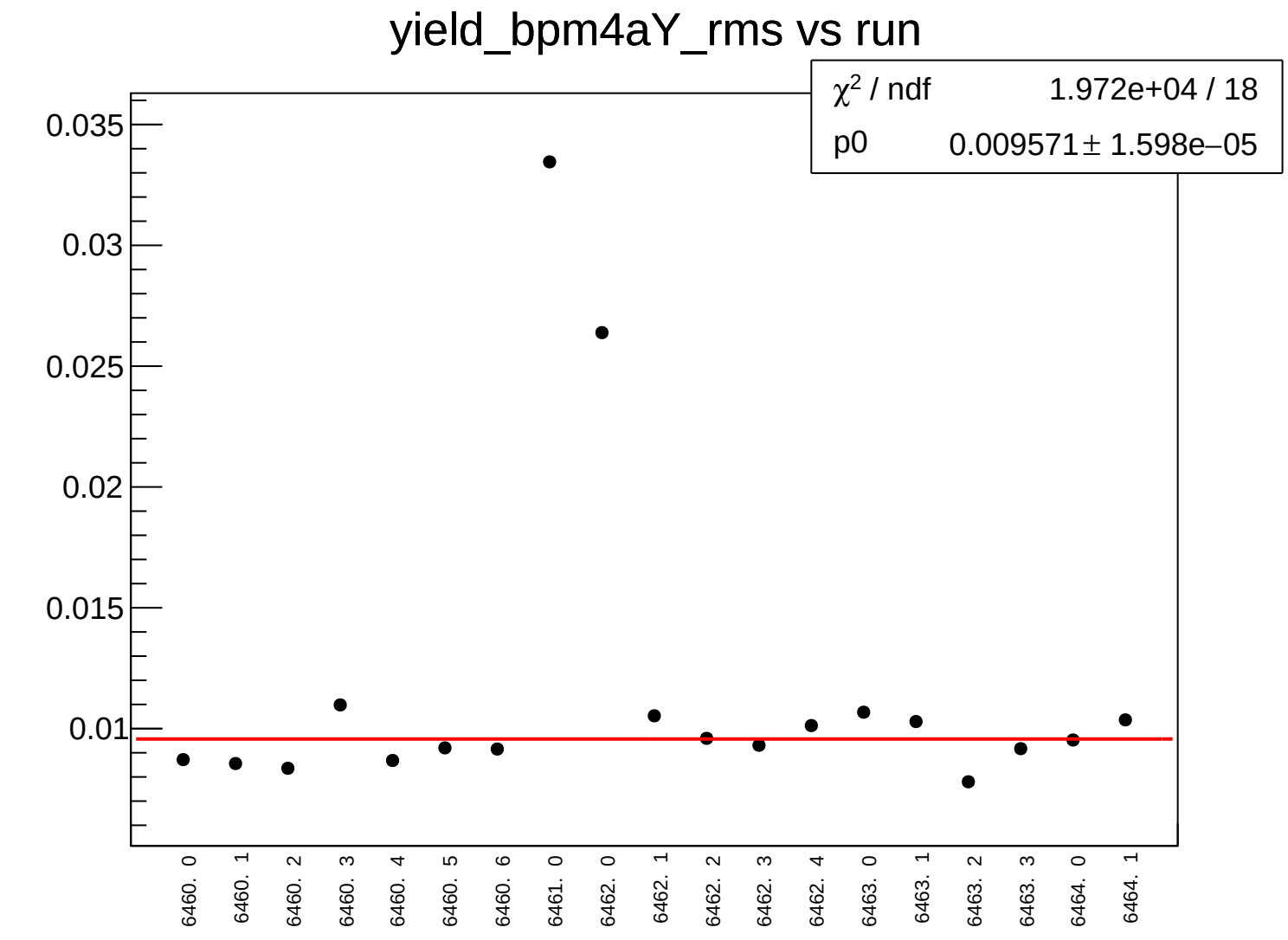

pull
Entries 19
Mean 14.13
Std Dev 3.061
100
80
60
40
20
0
−20
−40
−60
−80

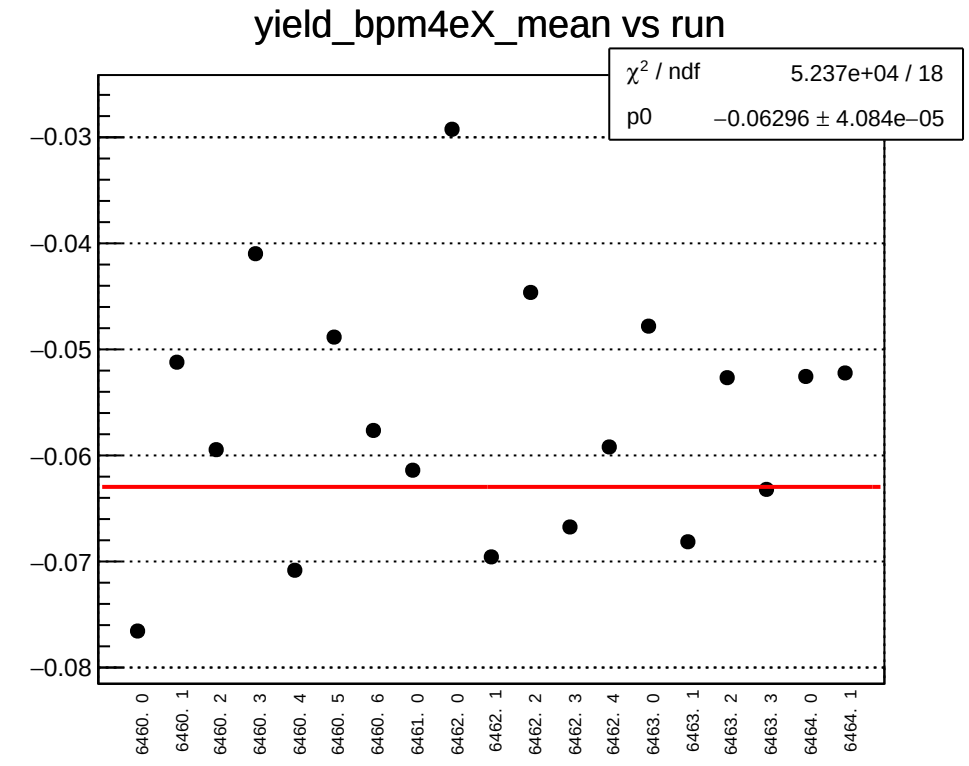

pull1D
Entries 19
Mean 1.524
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

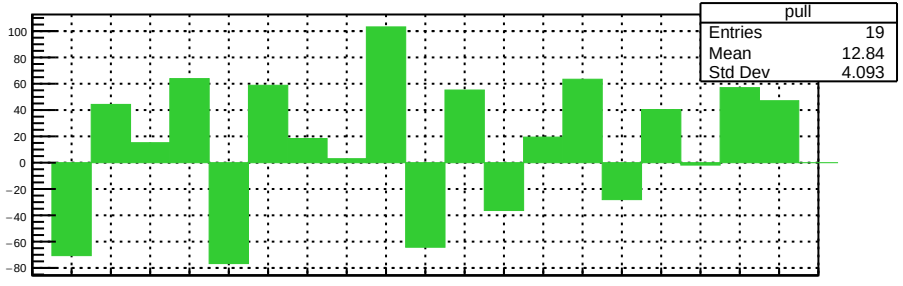

yield_bpm4aX_rms vs run
χ² / ndf 7.046e+04 / 18
p0 0.01784 ± 3.215e–05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

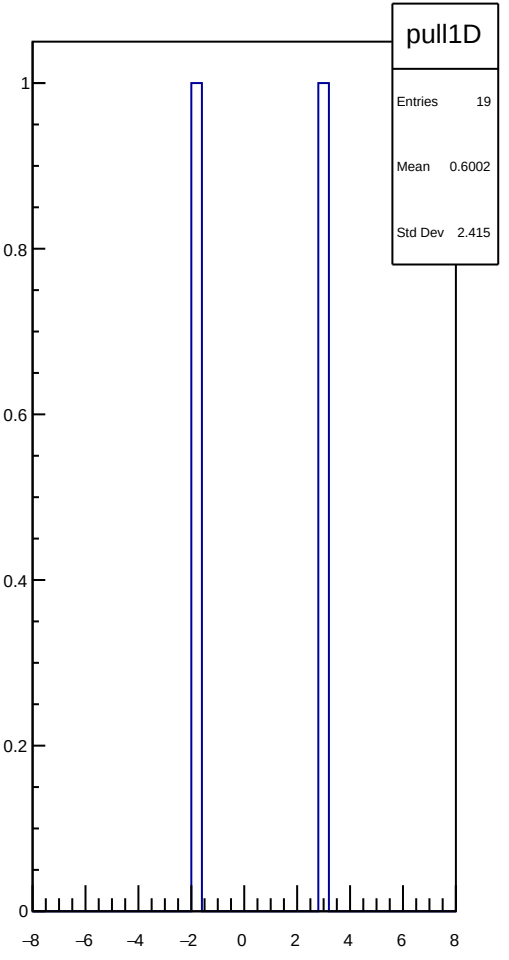

yield_bpm4aY_mean vs run
χ² / ndf 2.838e+04 / 18
p0 0.6194 ± 2.26e−05
0.64
0.63
0.62
0.61
0.6
0.59
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 171.6
Std Dev 161.6
80
60
40
20
0
−20
−40
−60
−80
−100

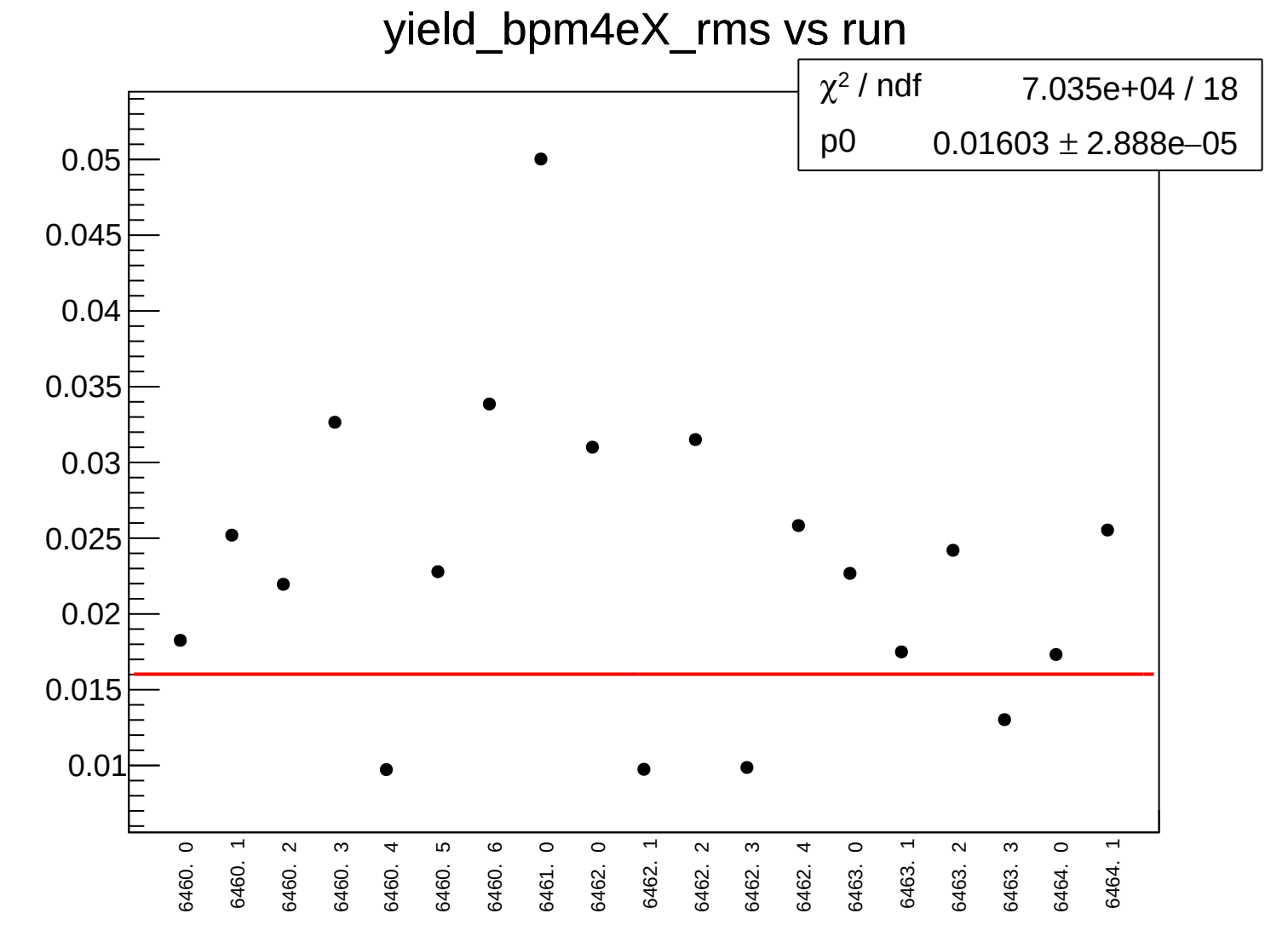

pull1D
Entries 19
Mean 2.894
Std Dev 3.694
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

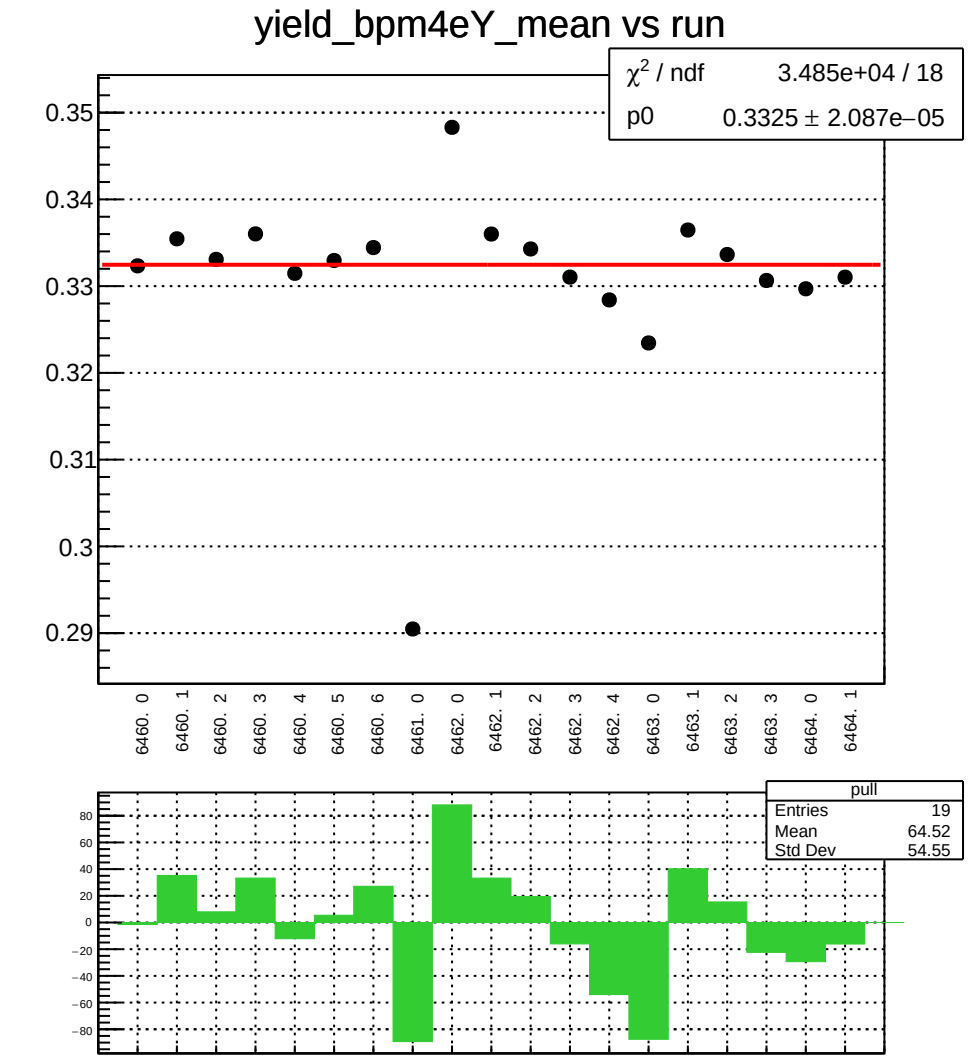

yield_bpm4aY_rms vs run
χ² / ndf 1.972e+04 / 18
p0 0.009571 ± 1.598e−05
0.035
0.03
0.025
0.02
0.015
0.01
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

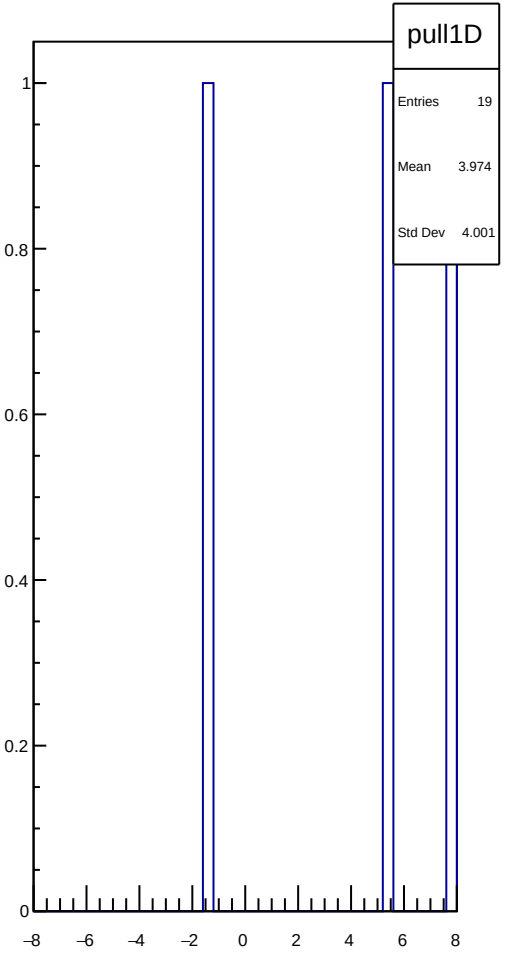

yield_bpm4eX_mean vs run
χ² / ndf 5.237e+04 / 18
p0 −0.06296 ± 4.084e−05
−0.03
−0.04
−0.05
−0.06
−0.07
−0.08
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

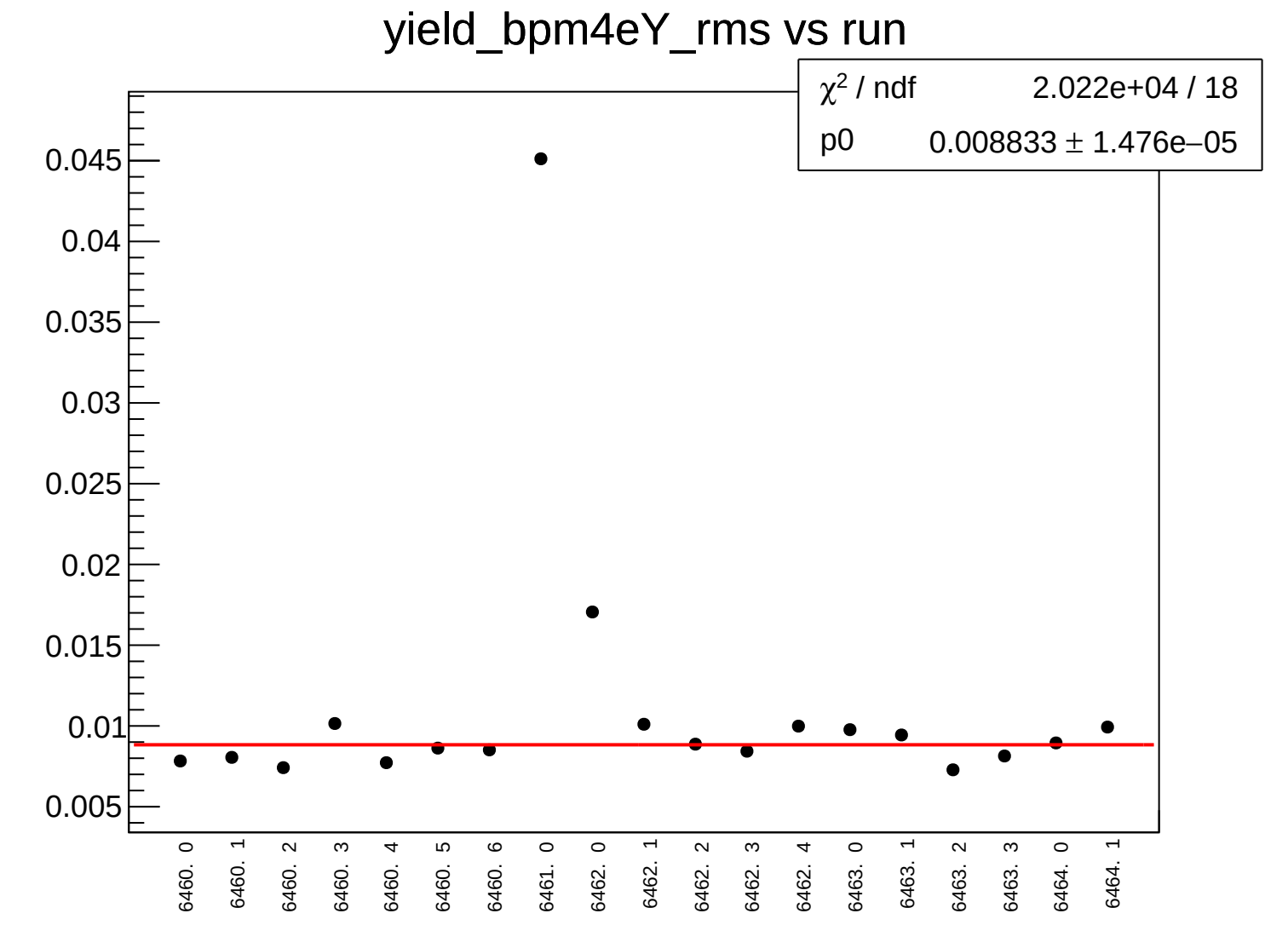

pull
Entries 19
Mean 12.84
Std Dev 4.093
100
80
60
40
20
0
−20
−40
−60
−80

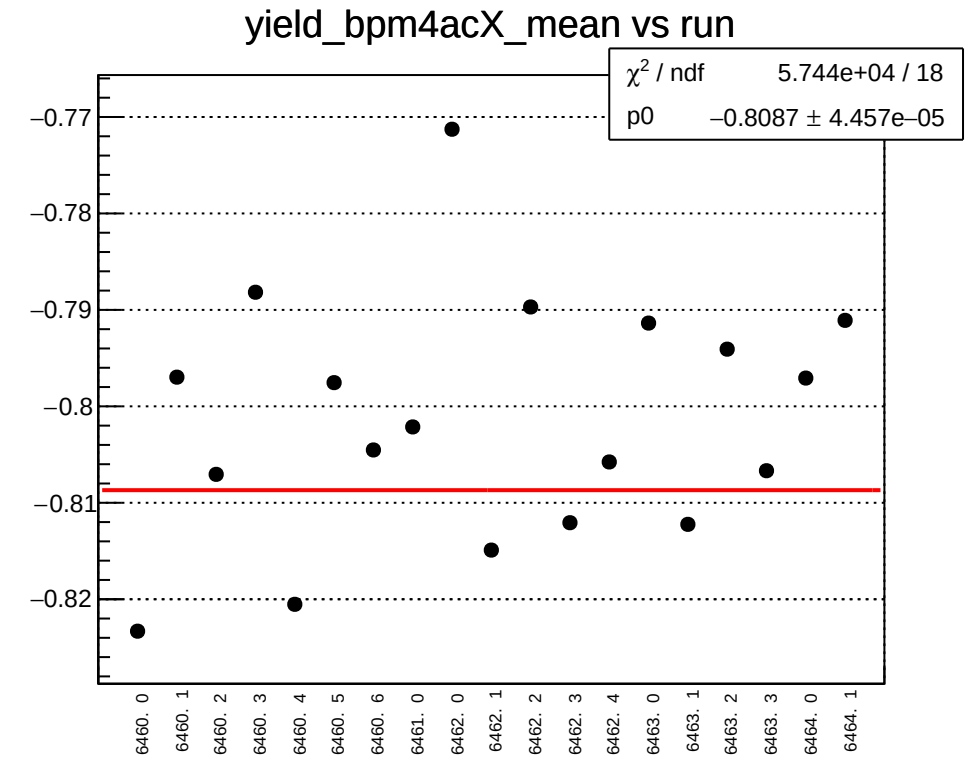

pull1D
Entries 19
Mean 0.6002
Std Dev 2.415
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

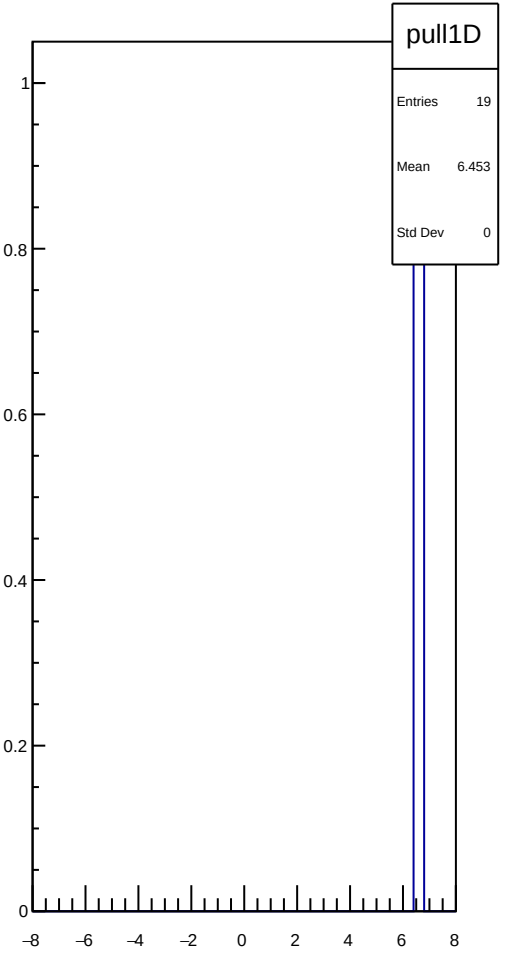

yield_bpm4eX_rms vs run
χ² / ndf 7.035e+04 / 18
p0 0.01603 ± 2.888e–05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

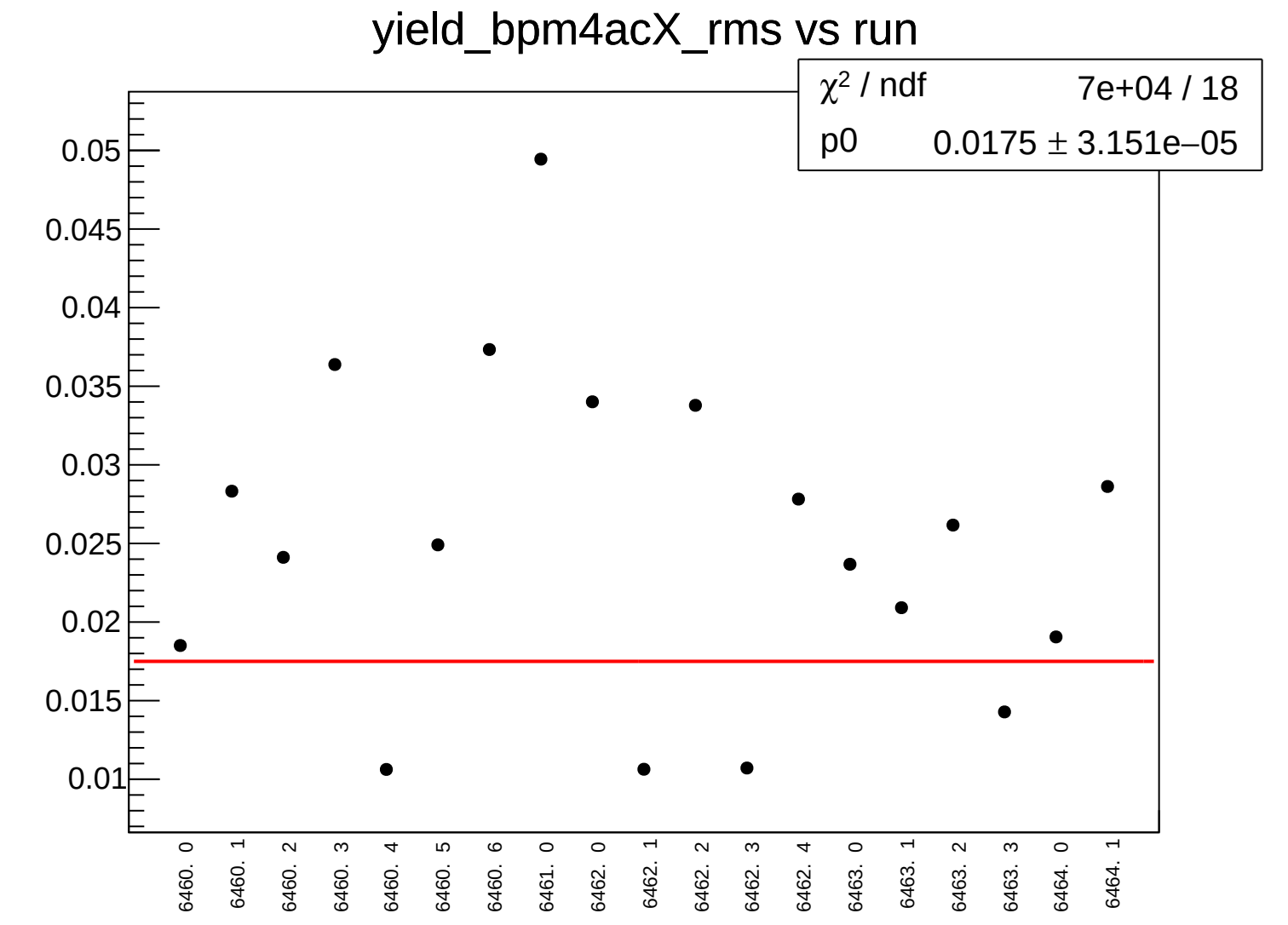

yield_bpm4eY_mean vs run
χ² / ndf 3.485e+04 / 18
p0 0.3325 ± 2.087e−05
0.35
0.34
0.33
0.32
0.31
0.3
0.29
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 64.52
Std Dev 54.55
80
60
40
20
0
−20
−40
−60
−80

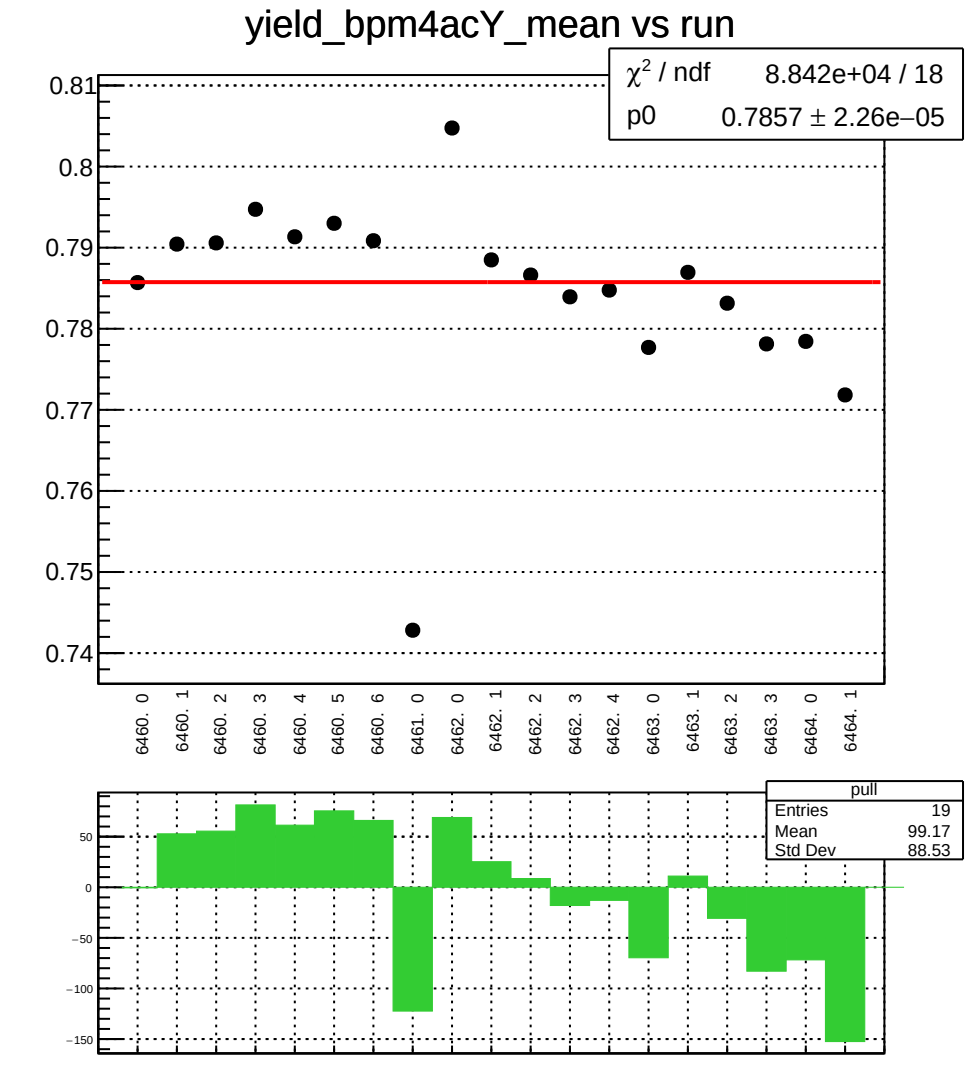

pull1D
Entries 19
Mean 3.974
Std Dev 4.001
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

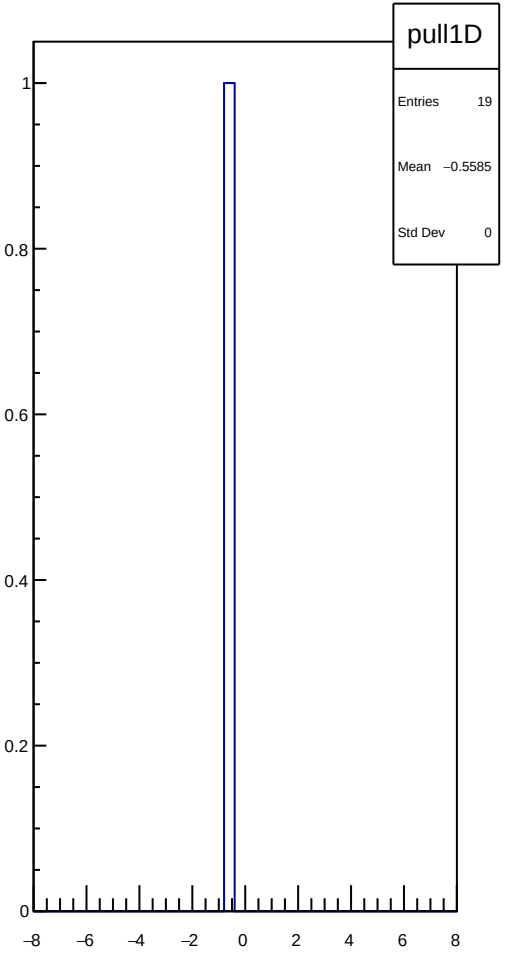

yield_bpm4eY_rms vs run
χ² / ndf 2.022e+04 / 18
p0 0.008833 ± 1.476e−05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

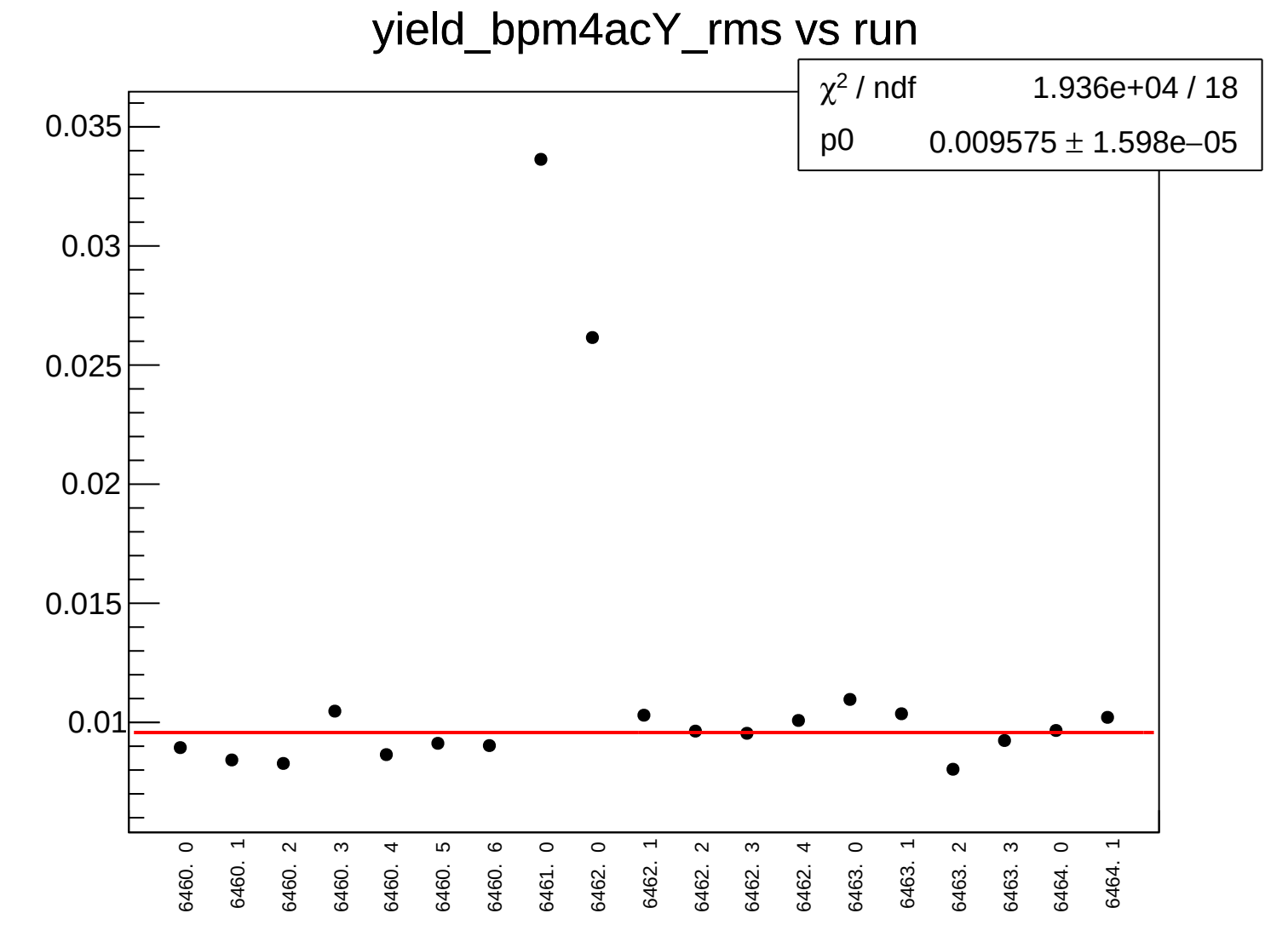

yield_bpm4acX_mean vs run
χ² / ndf 5.744e+04 / 18
p0 −0.8087 ± 4.457e−05
−0.77
−0.78
−0.79
−0.8
−0.81
−0.82
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 15.48
Std Dev 2.379
100
50
0
−50
−100

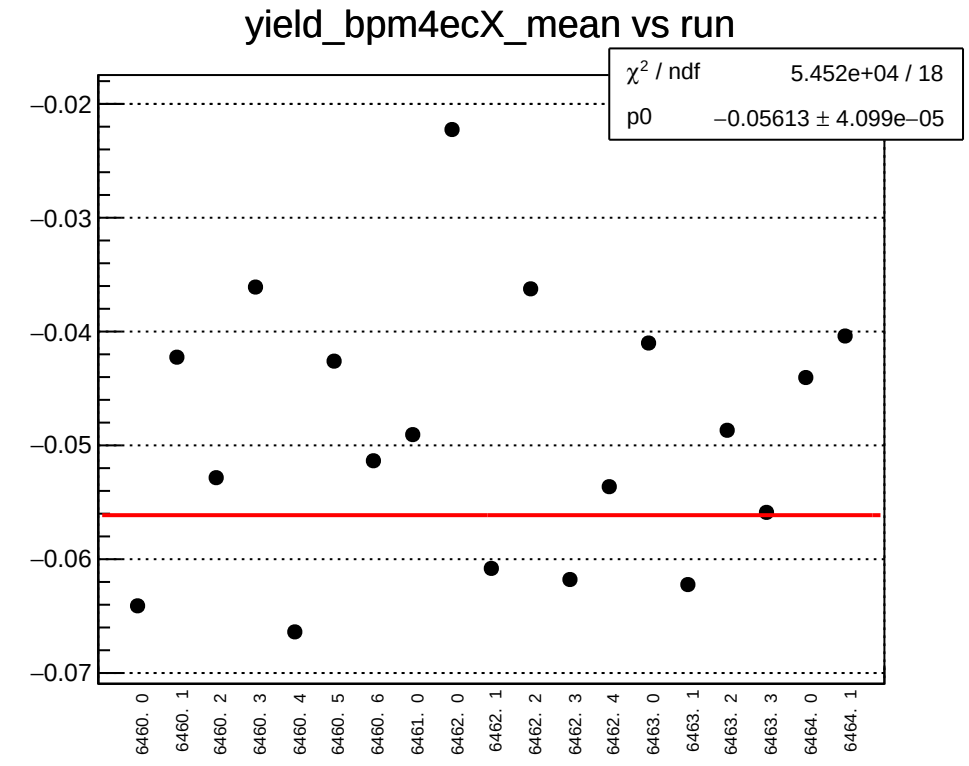

pull1D
Entries 19
Mean 6.453
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

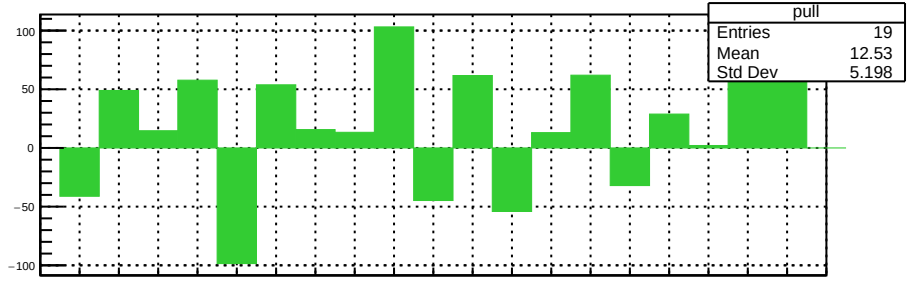

yield_bpm4acX_rms vs run
χ² / ndf 7e+04 / 18
p0 0.0175 ± 3.151e−05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

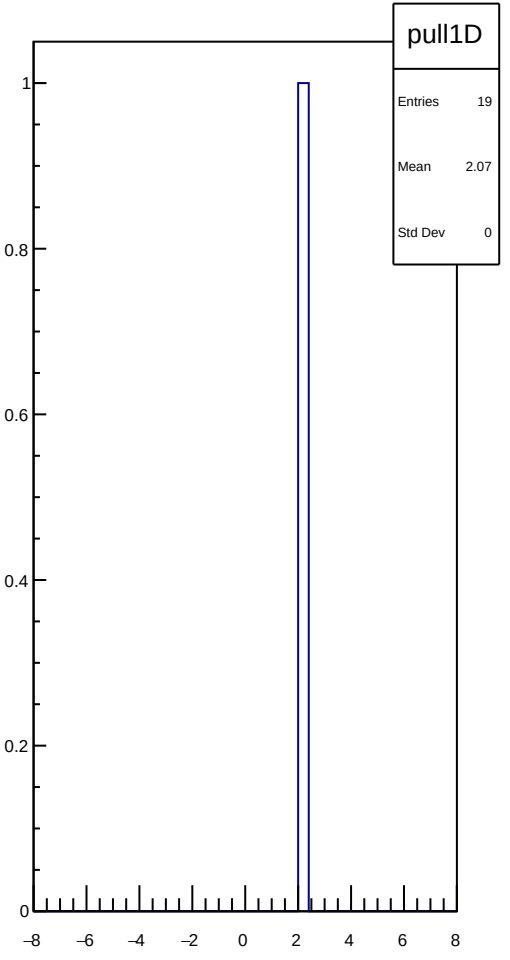

yield_bpm4acY_mean vs run
χ² / ndf 8.842e+04 / 18
p0 0.7857 ± 2.26e−05
0.81
0.8
0.79
0.78
0.77
0.76
0.75
0.74
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 99.17
Std Dev 88.53
50
0
−50
−100
−150

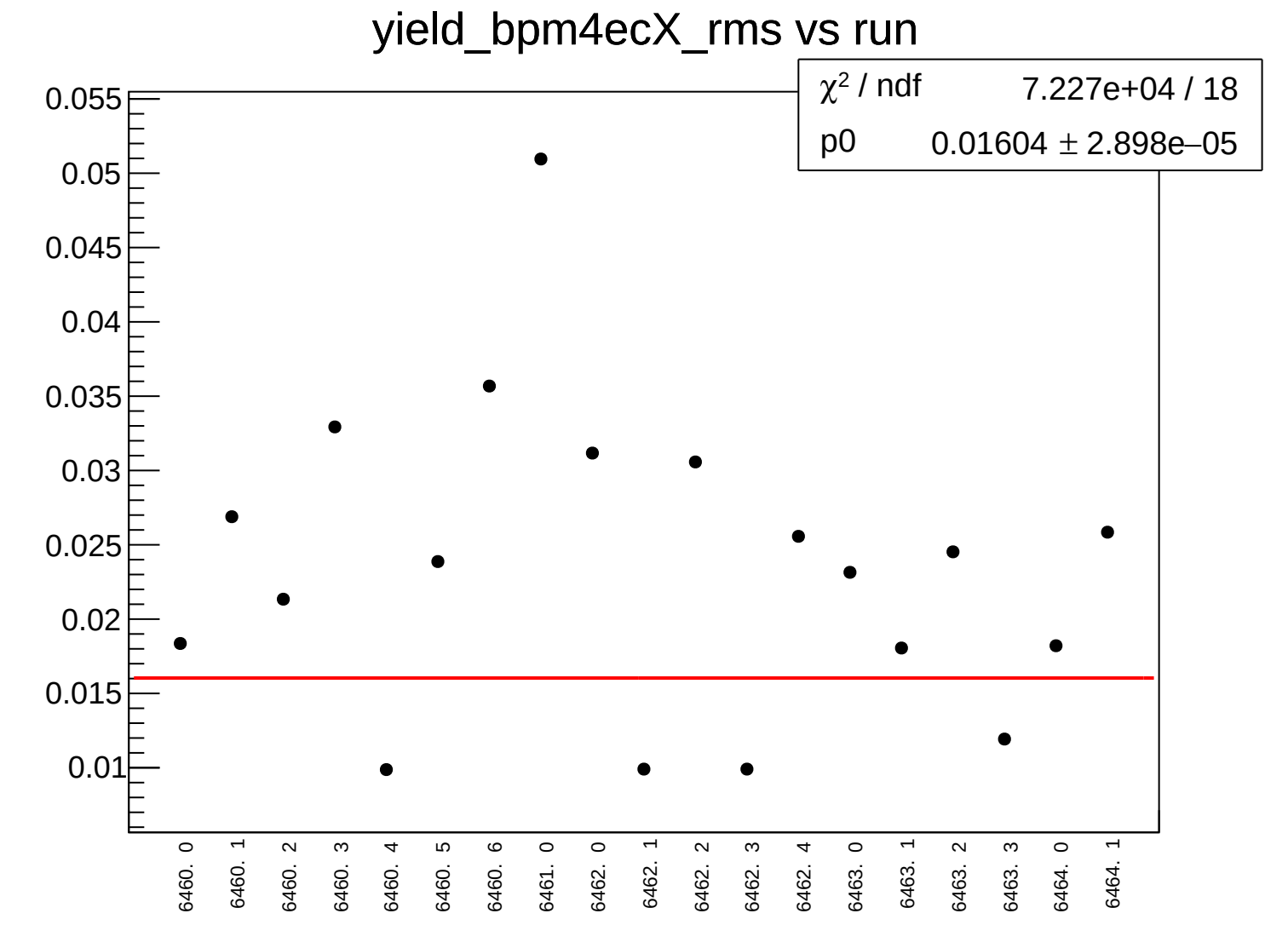

pull1D
Entries 19
Mean −0.5585
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

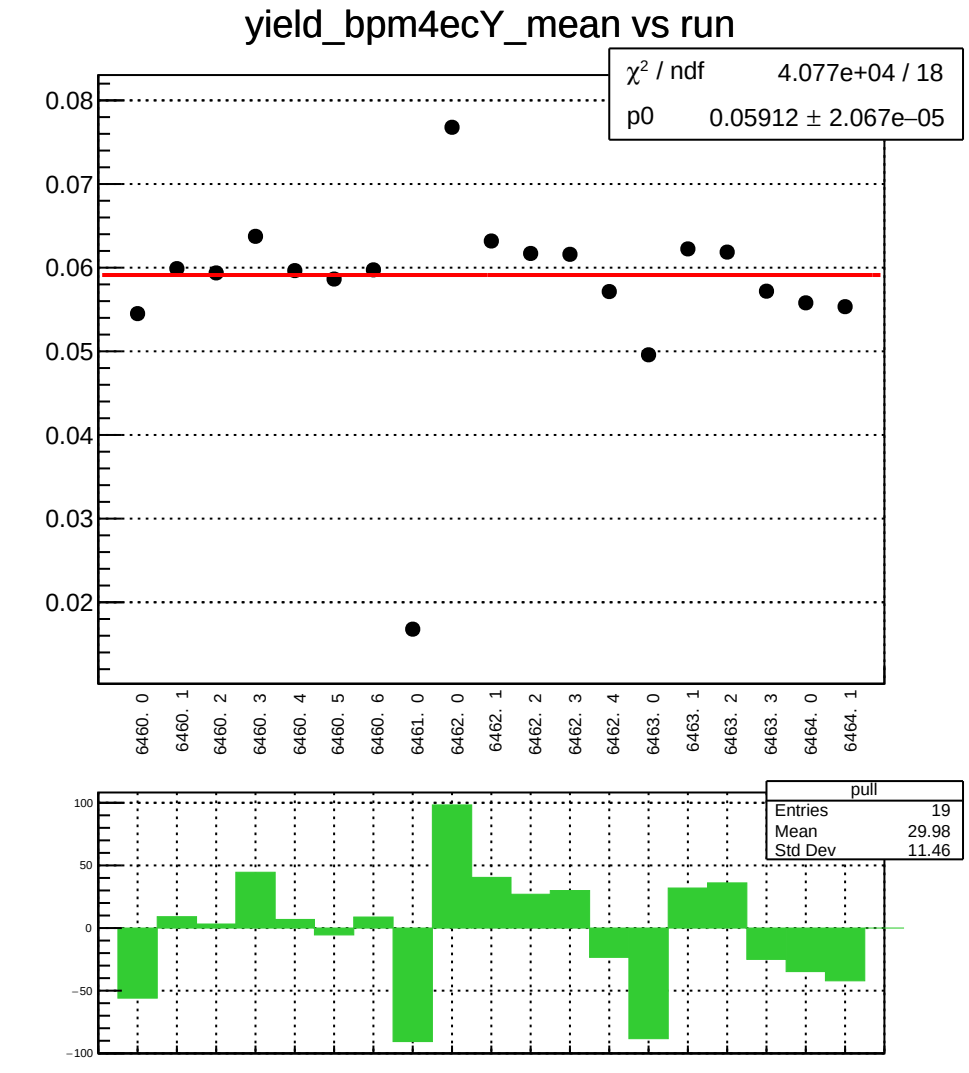

yield_bpm4acY_rms vs run
χ² / ndf 1.936e+04 / 18
p0 0.009575 ± 1.598e−05
0.035
0.03
0.025
0.02
0.015
0.01
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

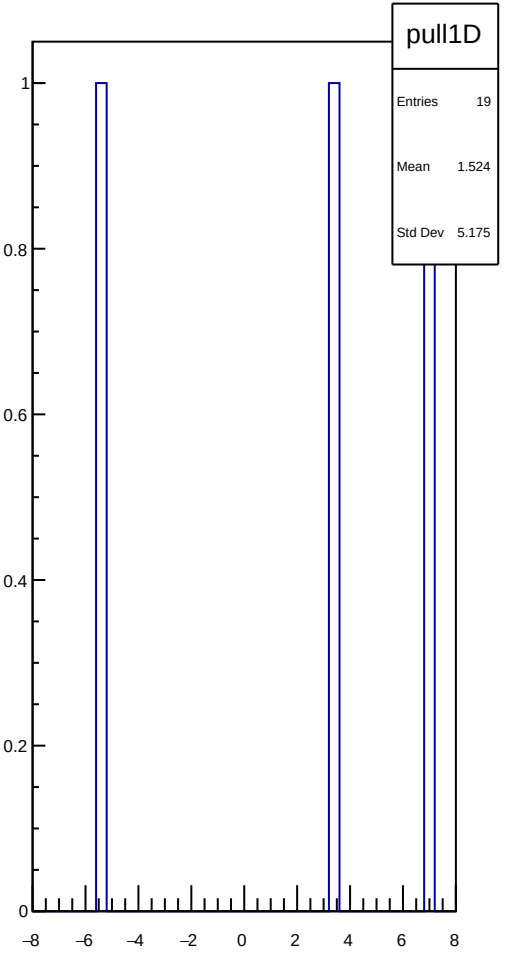

yield_bpm4ecX_mean vs run
χ² / ndf 5.452e+04 / 18
p0 −0.05613 ± 4.099e−05
−0.02
−0.03
−0.04
−0.05
−0.06
−0.07
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

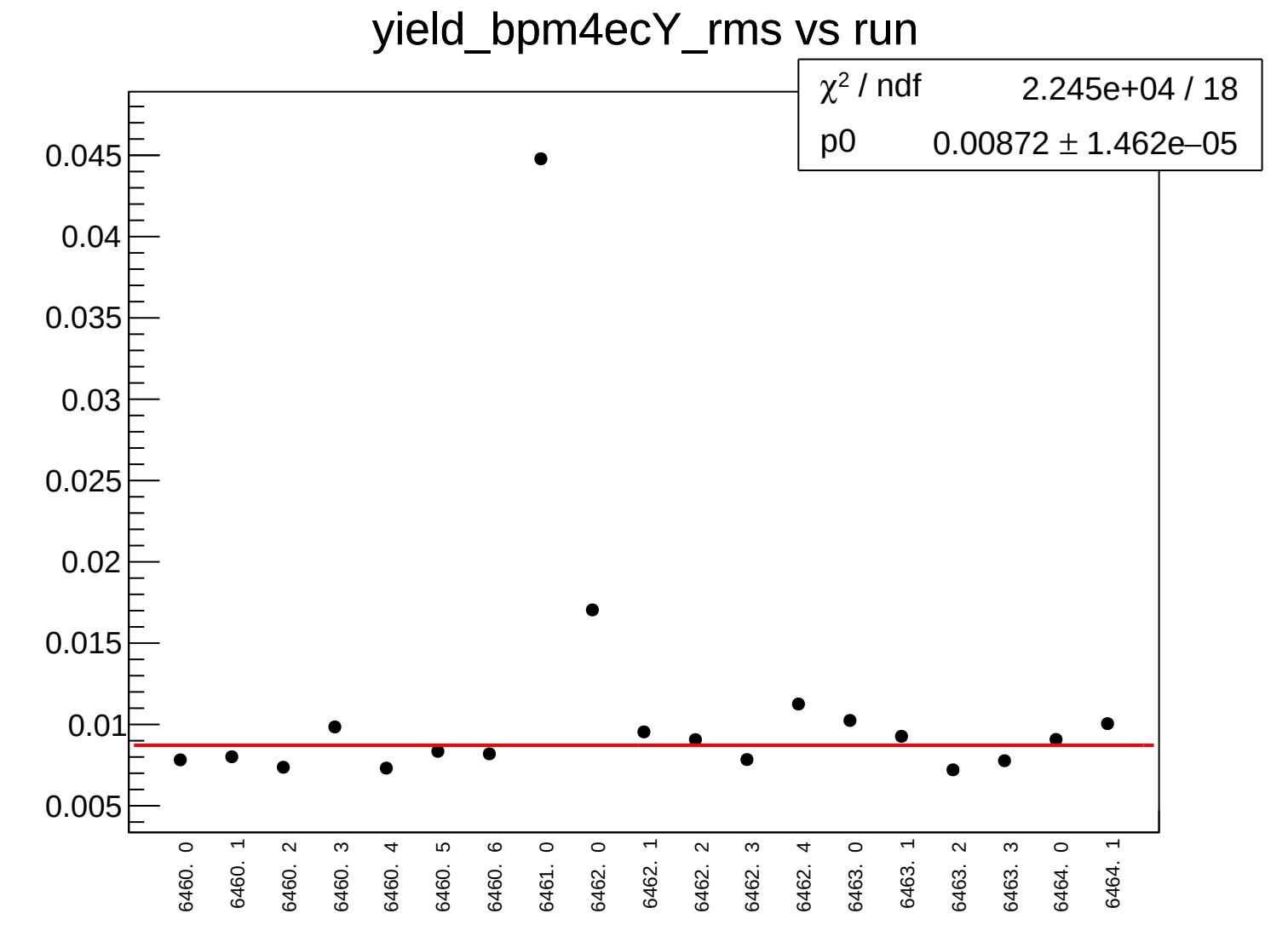

pull
Entries 19
Mean 12.53
Std Dev 5.198
100
50
0
−50
−100

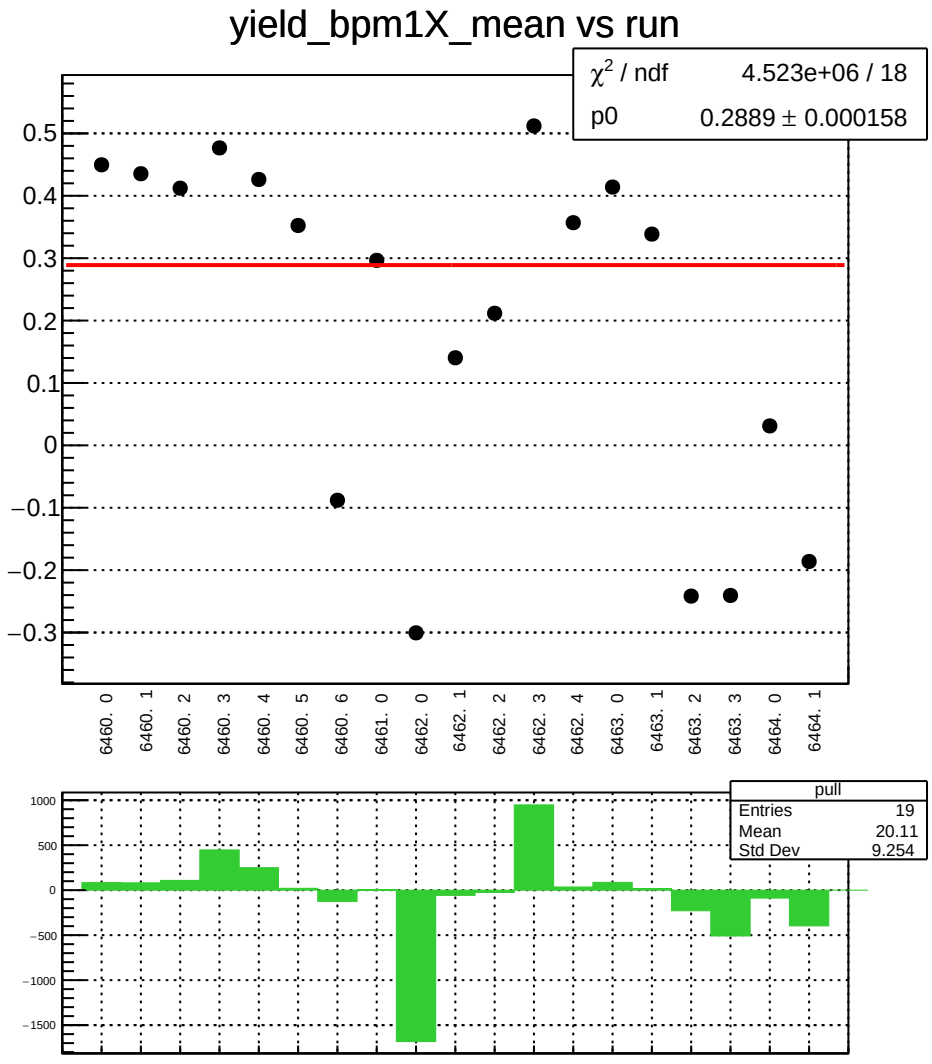

pull1D
Entries 19
Mean 2.07
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

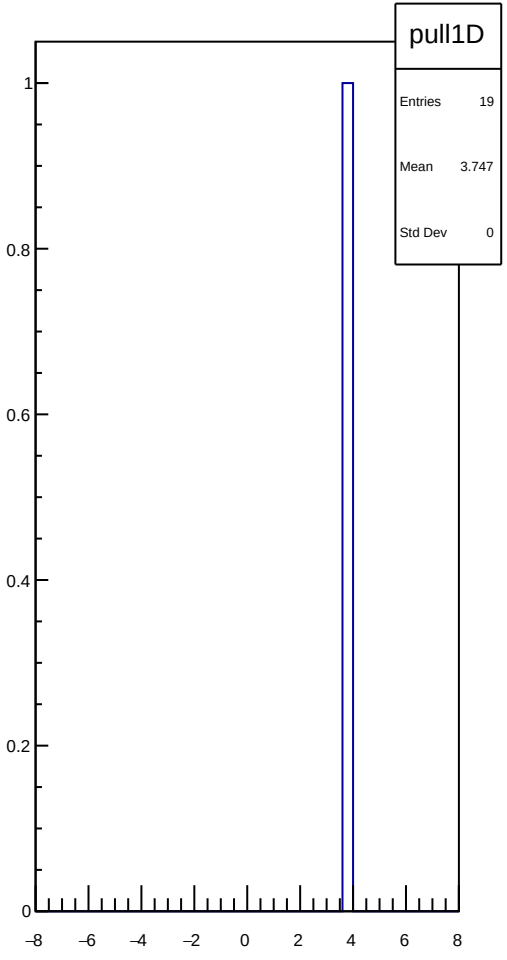

yield_bpm4ecX_rms vs run
χ² / ndf 7.227e+04 / 18
p0 0.01604 ± 2.898e–05
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

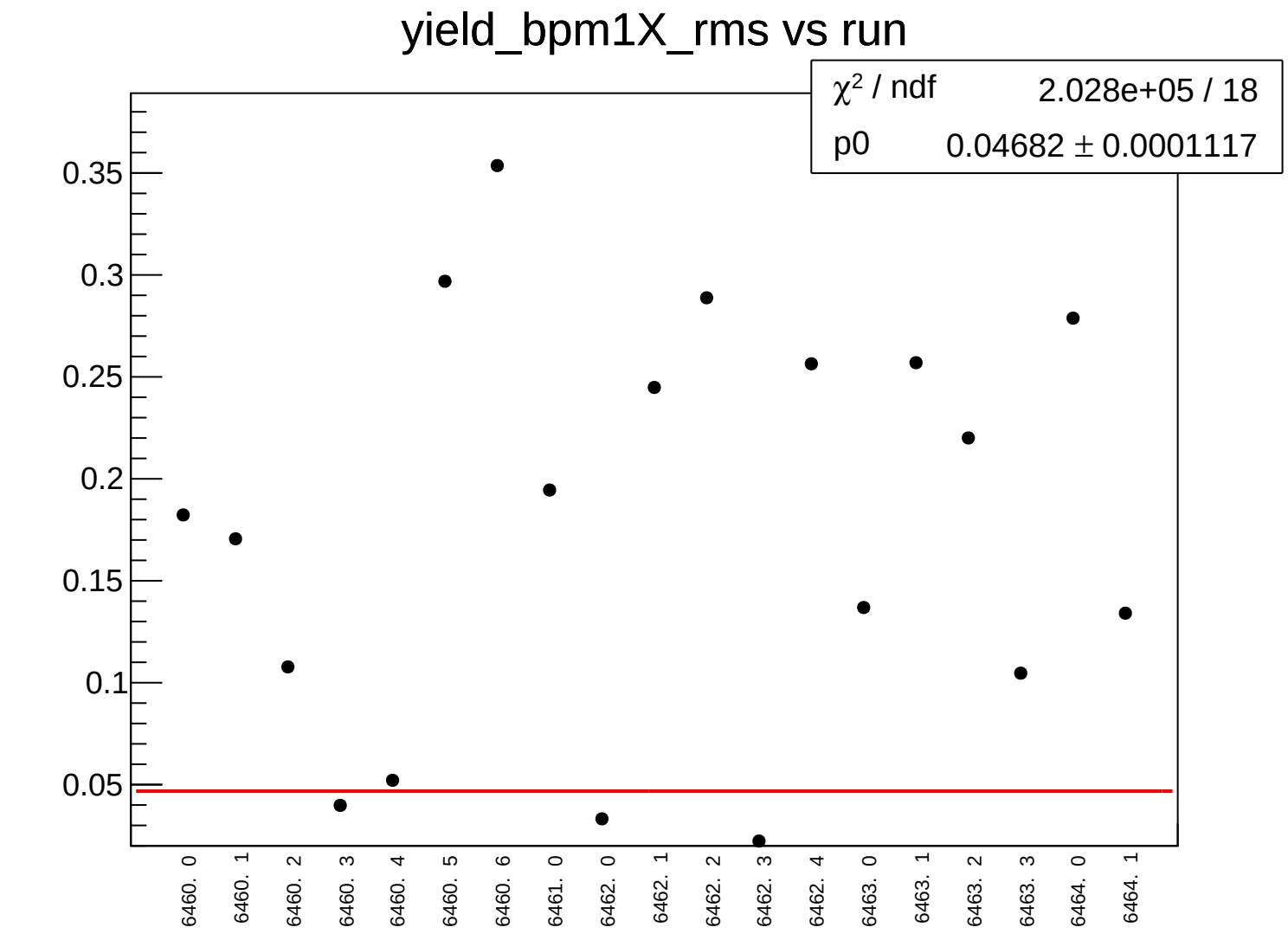

yield_bpm4ecY_mean vs run
χ² / ndf 4.077e+04 / 18
p0 0.05912 ± 2.067e−05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 29.98
Std Dev 11.46
100
50
0
−50
−100

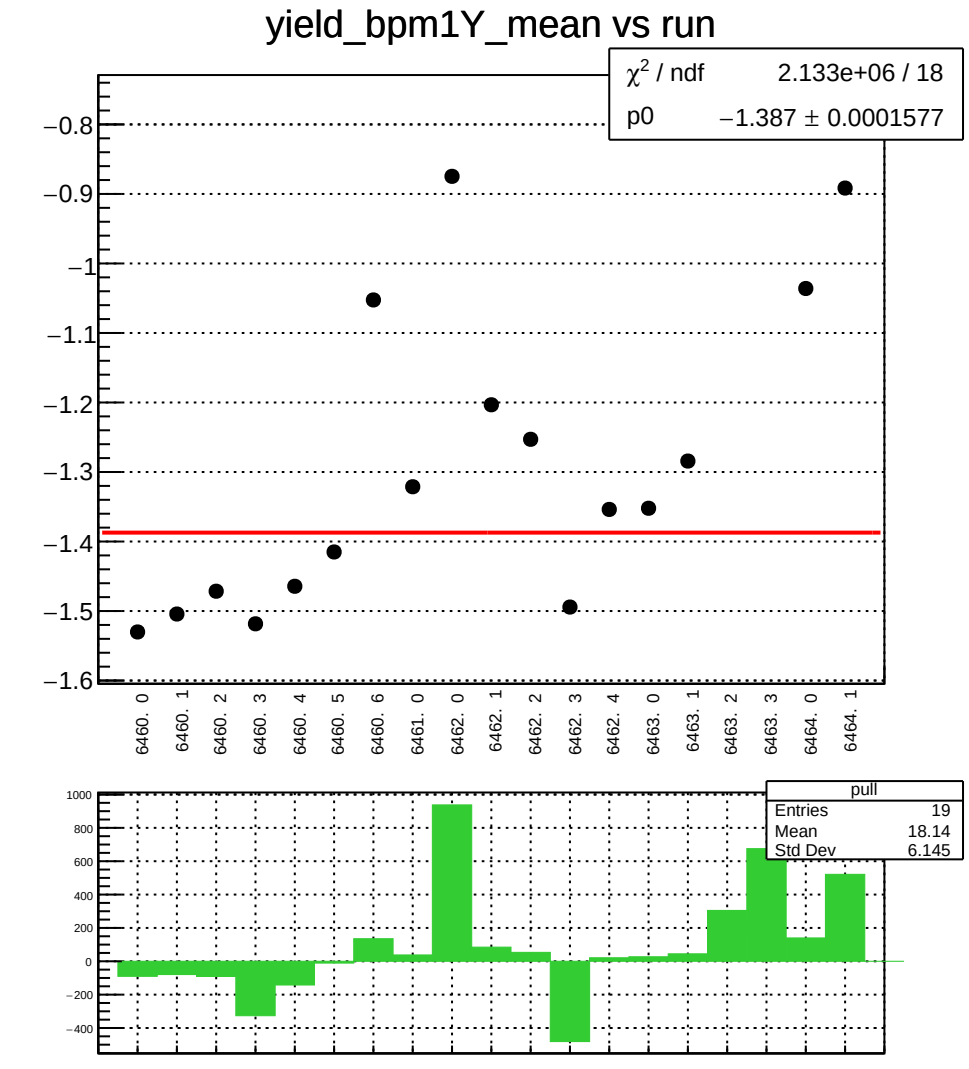

pull1D
Entries 19
Mean 1.524
Std Dev 5.175
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

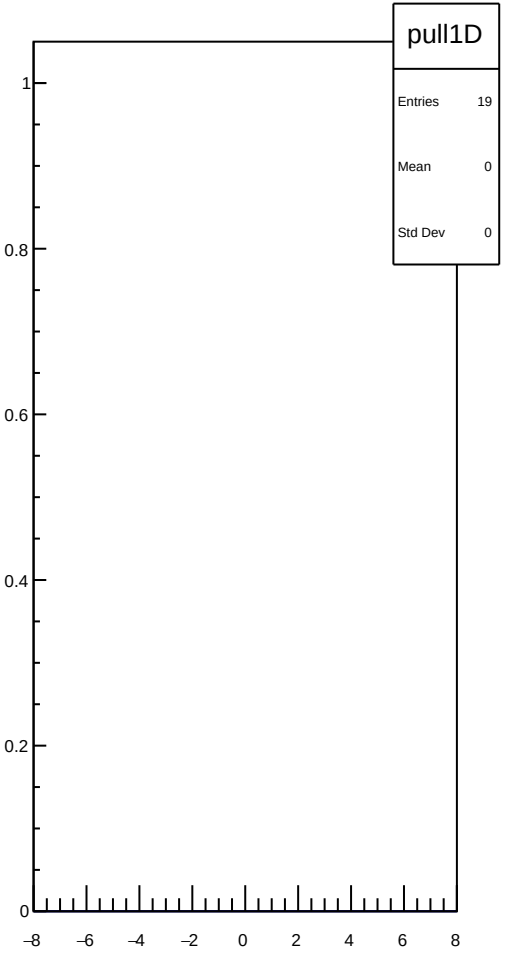

yield_bpm4ecY_rms vs run
χ² / ndf 2.245e+04 / 18
p0 0.00872 ± 1.462e−05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

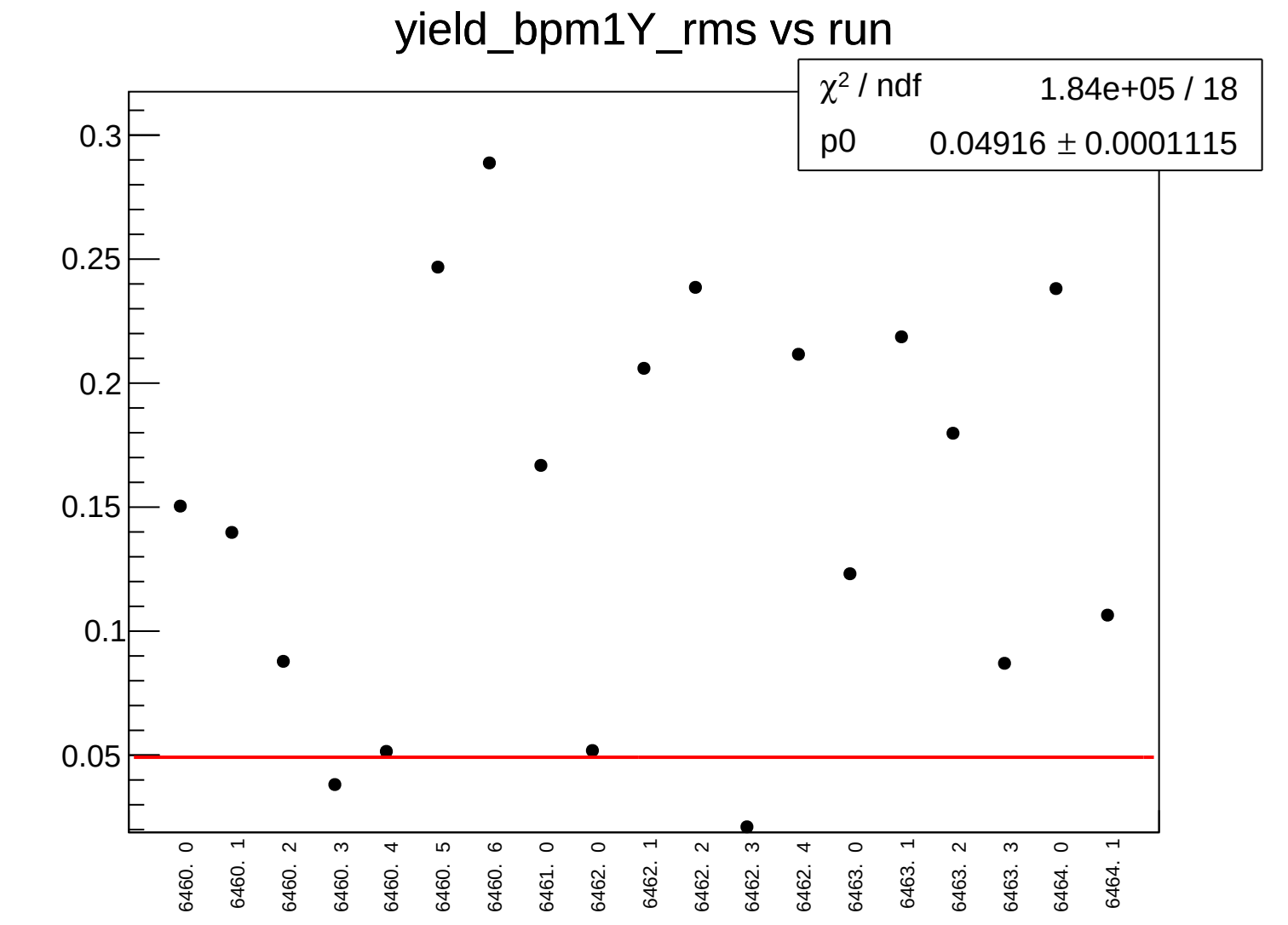

yield_bpm1X_mean vs run
χ² / ndf 4.523e+06 / 18
p0 0.2889 ± 0.000158
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 20.11
Std Dev 9.254
1000
500
0
−500
−1000
−1500

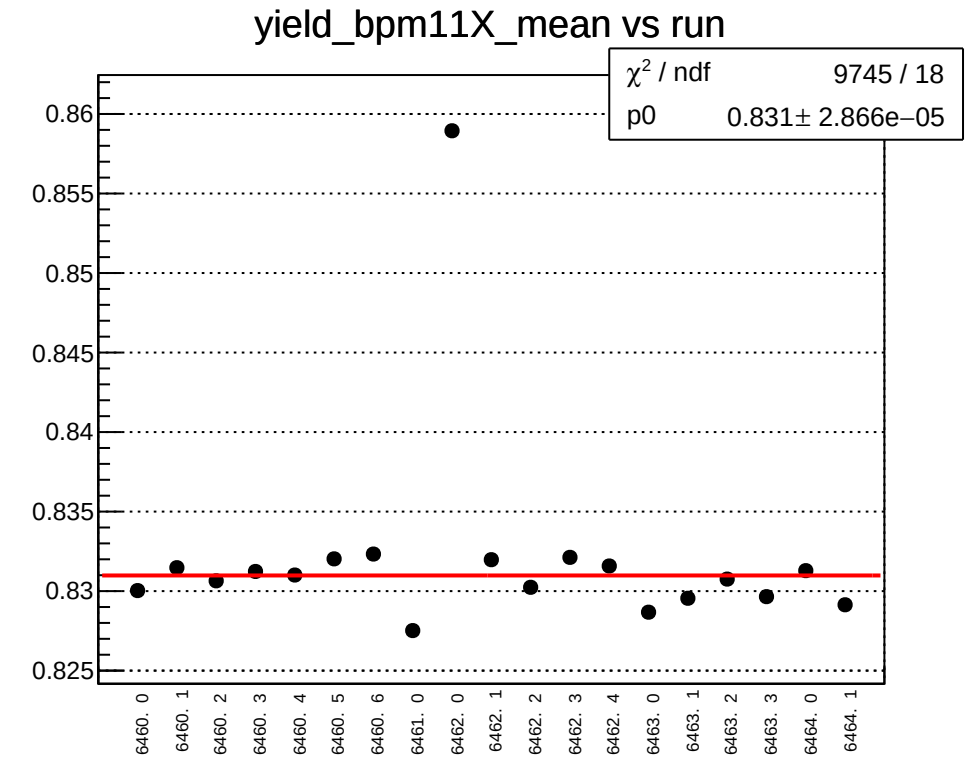

pull1D
Entries 19
Mean 3.747
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

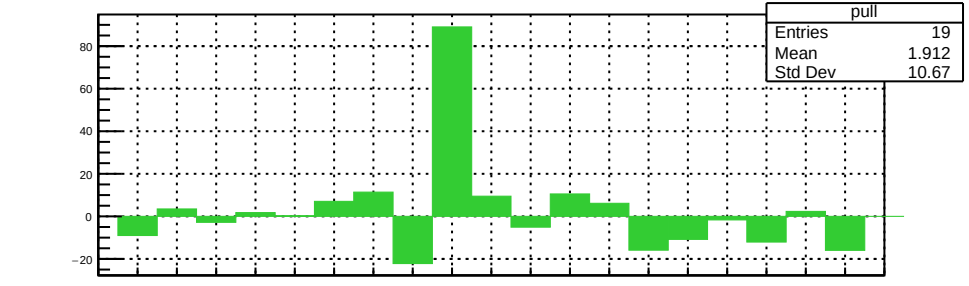

yield_bpm1X_rms vs run
χ² / ndf 2.028e+05 / 18
p0 0.04682 ± 0.0001117
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

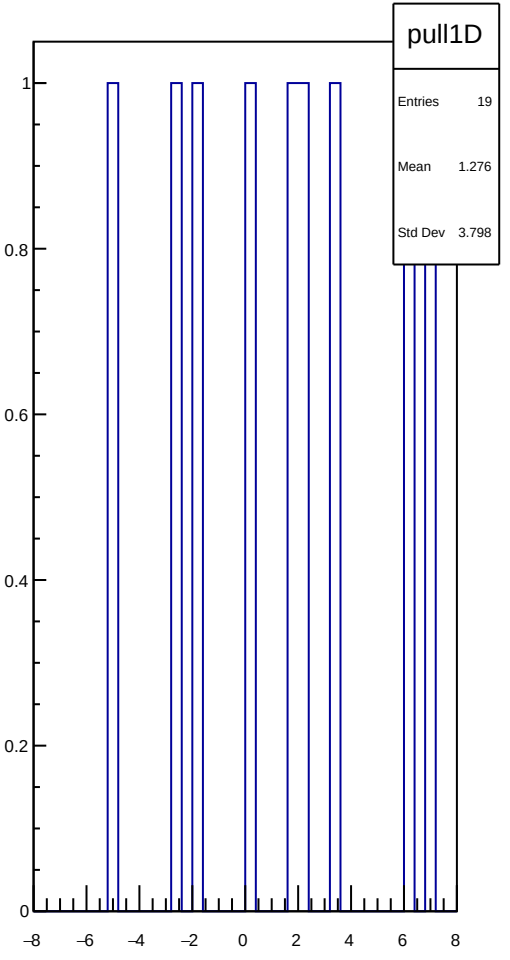

yield_bpm1Y_mean vs run
χ² / ndf 2.133e+06 / 18
p0 −1.387 ± 0.0001577
−0.8
−0.9
−1
−1.1
−1.2
−1.3
−1.4
−1.5
−1.6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 18.14
Std Dev 6.145
1000
800
600
400
200
0
−200
−400

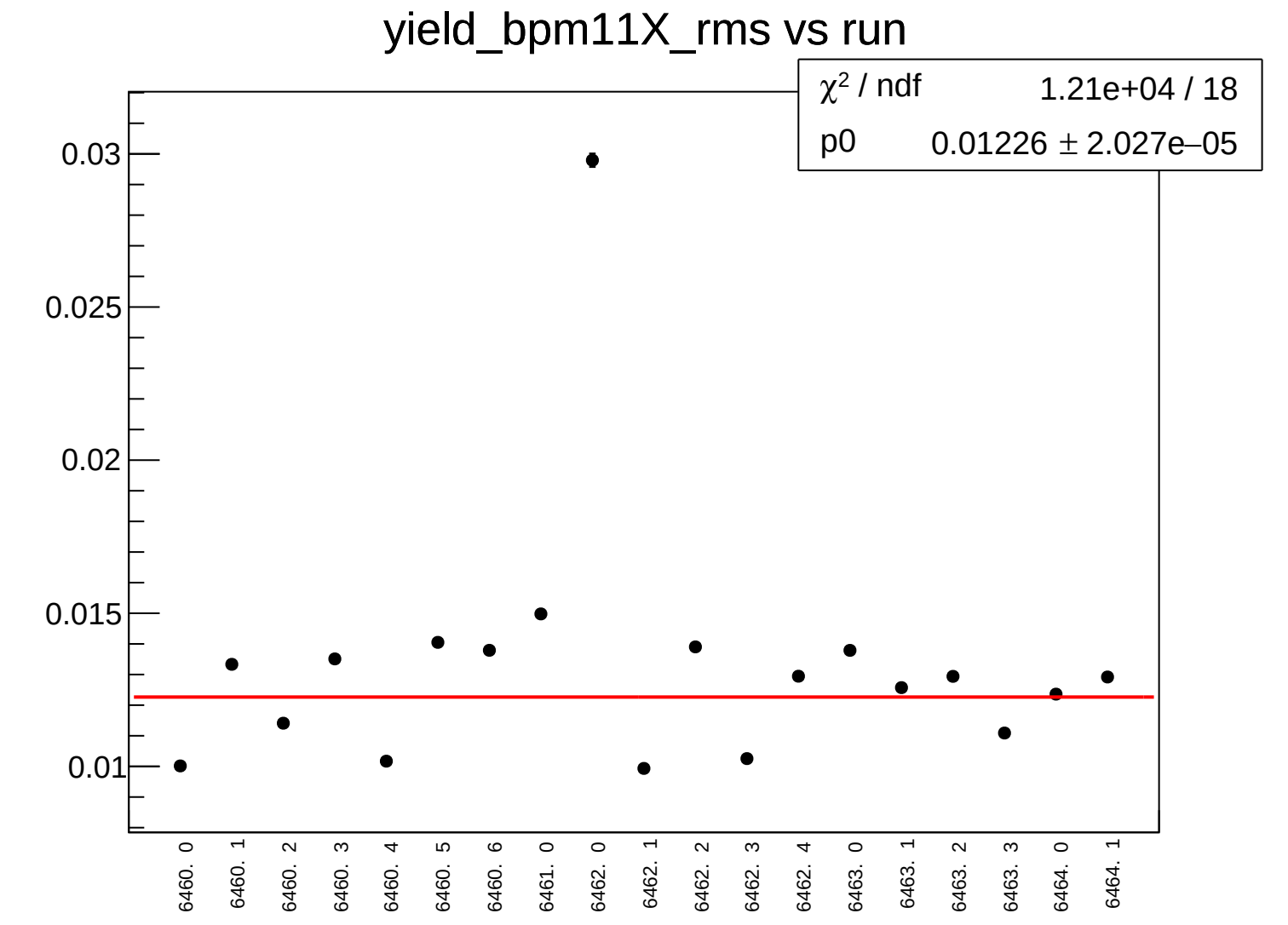

pull1D
Entries 19
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

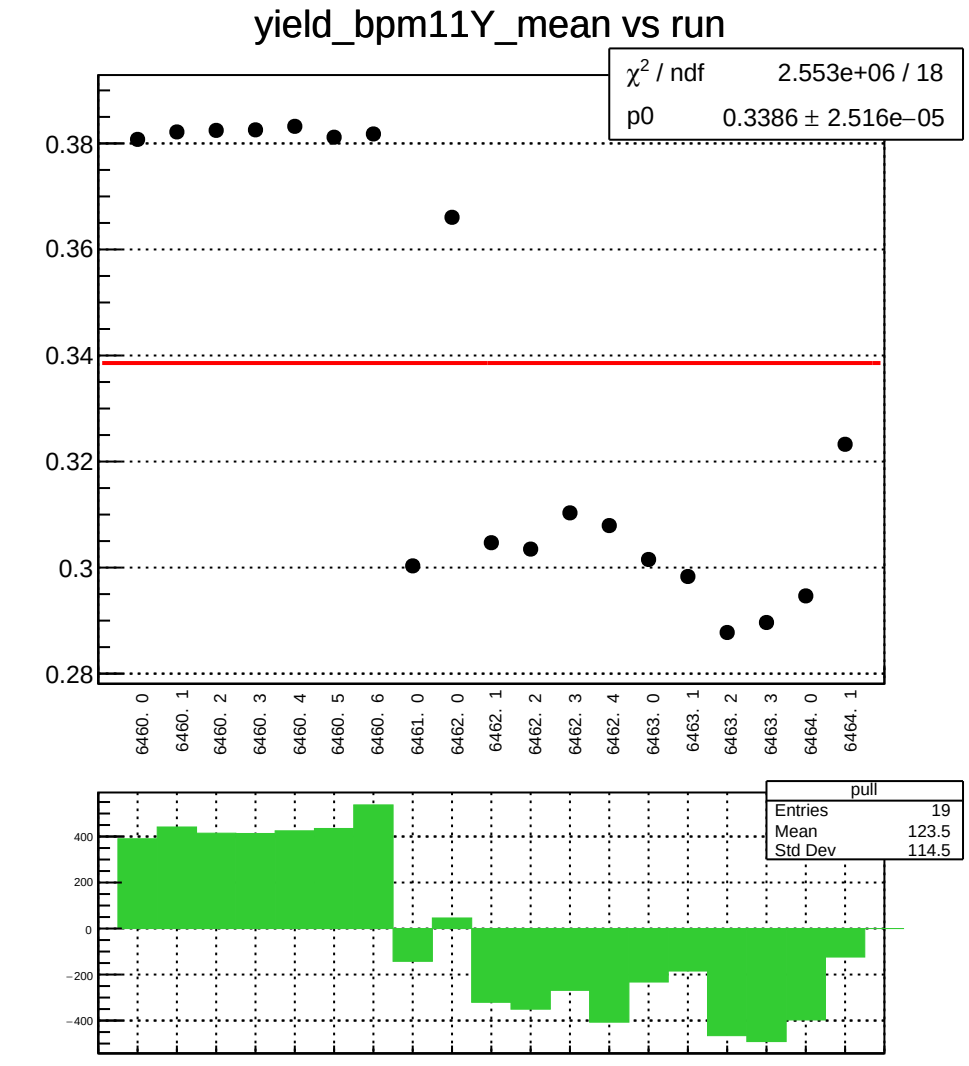

yield_bpm1Y_rms vs run
χ² / ndf 1.84e+05 / 18
p0 0.04916 ± 0.0001115
0.3
0.25
0.2
0.15
0.1
0.05
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

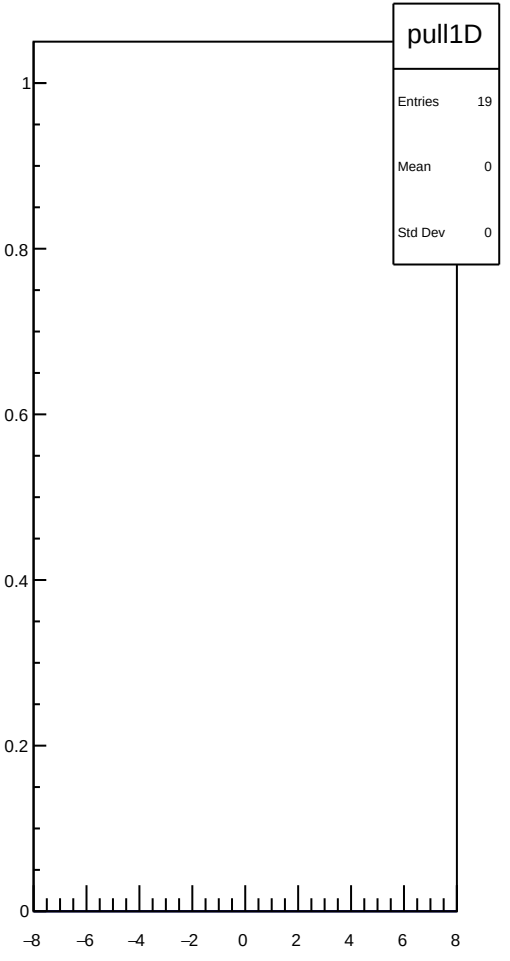

yield_bpm11X_mean vs run
χ² / ndf 9745 / 18
p0 0.831± 2.866e−05
0.86
0.855
0.85
0.845
0.84
0.835
0.83
0.825
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

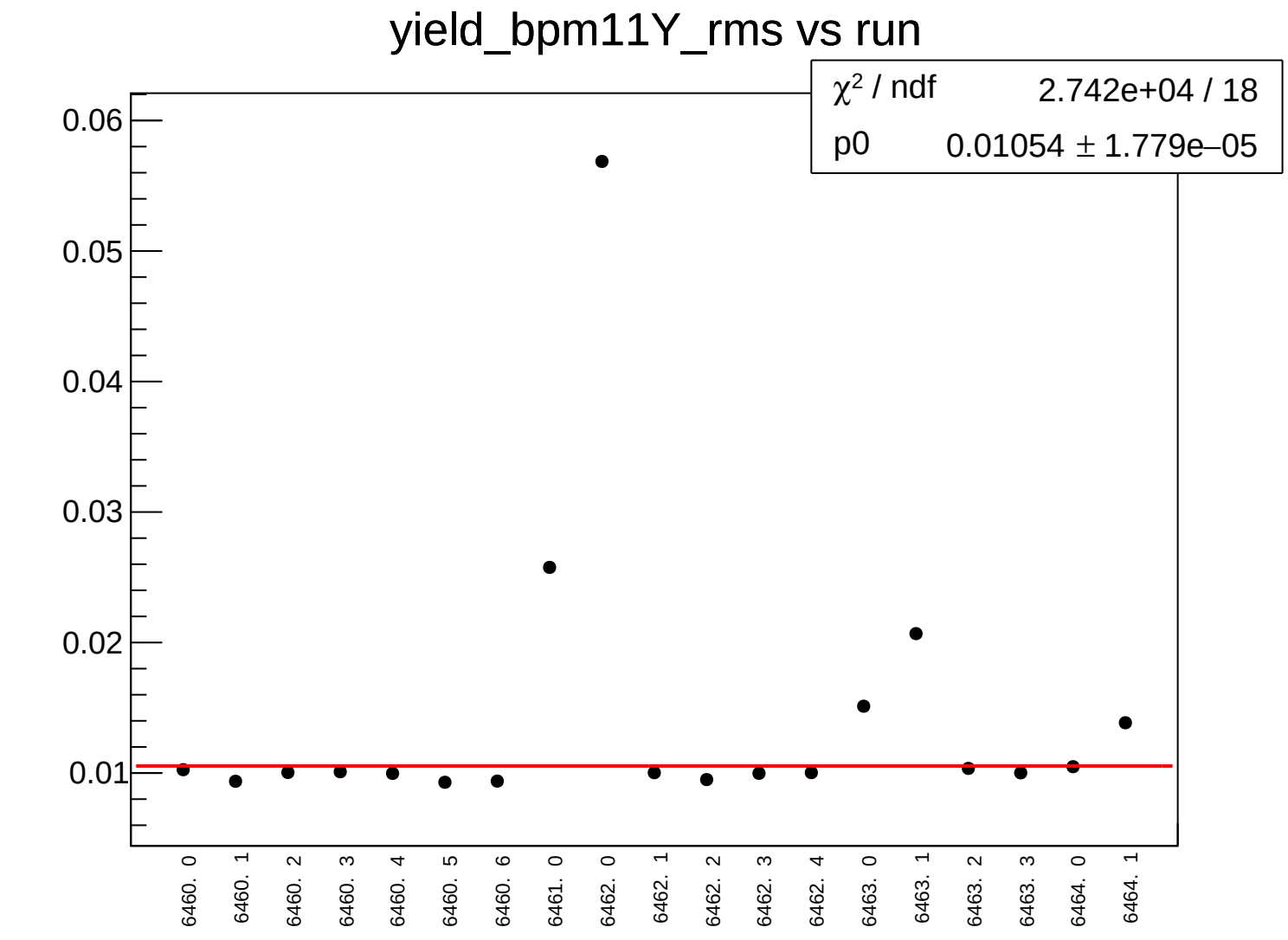

pull
Entries 19
Mean 1.912
Std Dev 10.67
80
60
40
20
0
−20

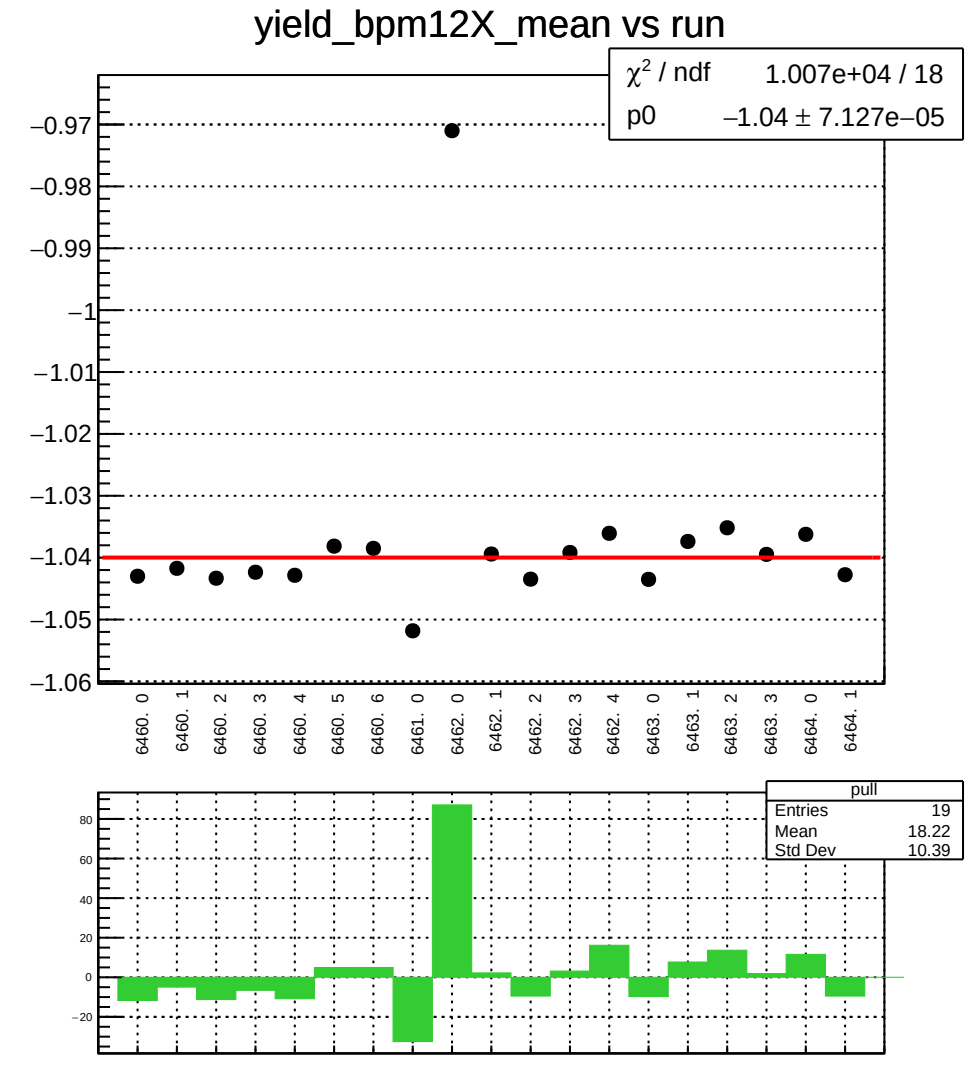

pull1D
Entries 19
Mean 1.276
Std Dev 3.798
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

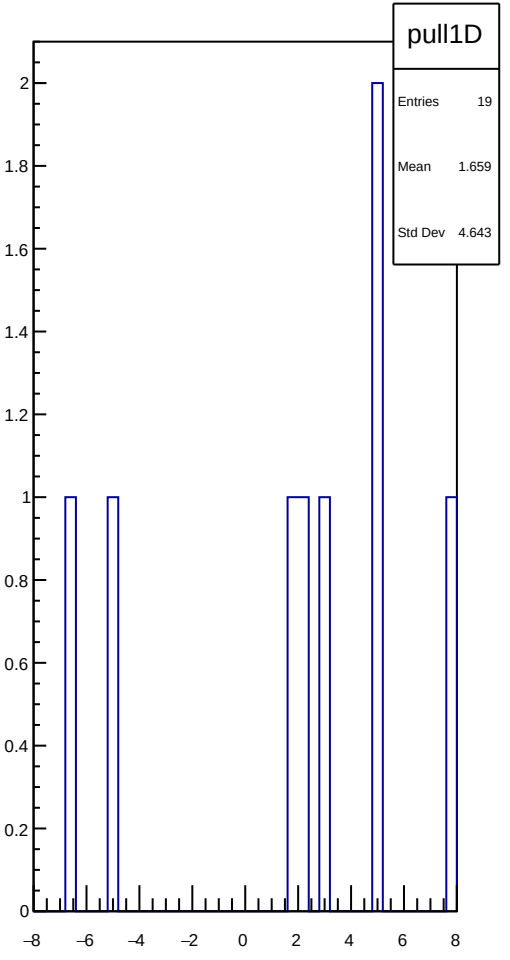

yield_bpm11X_rms vs run
χ² / ndf 1.21e+04 / 18
p0 0.01226 ± 2.027e–05
0.03
0.025
0.02
0.015
0.01
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

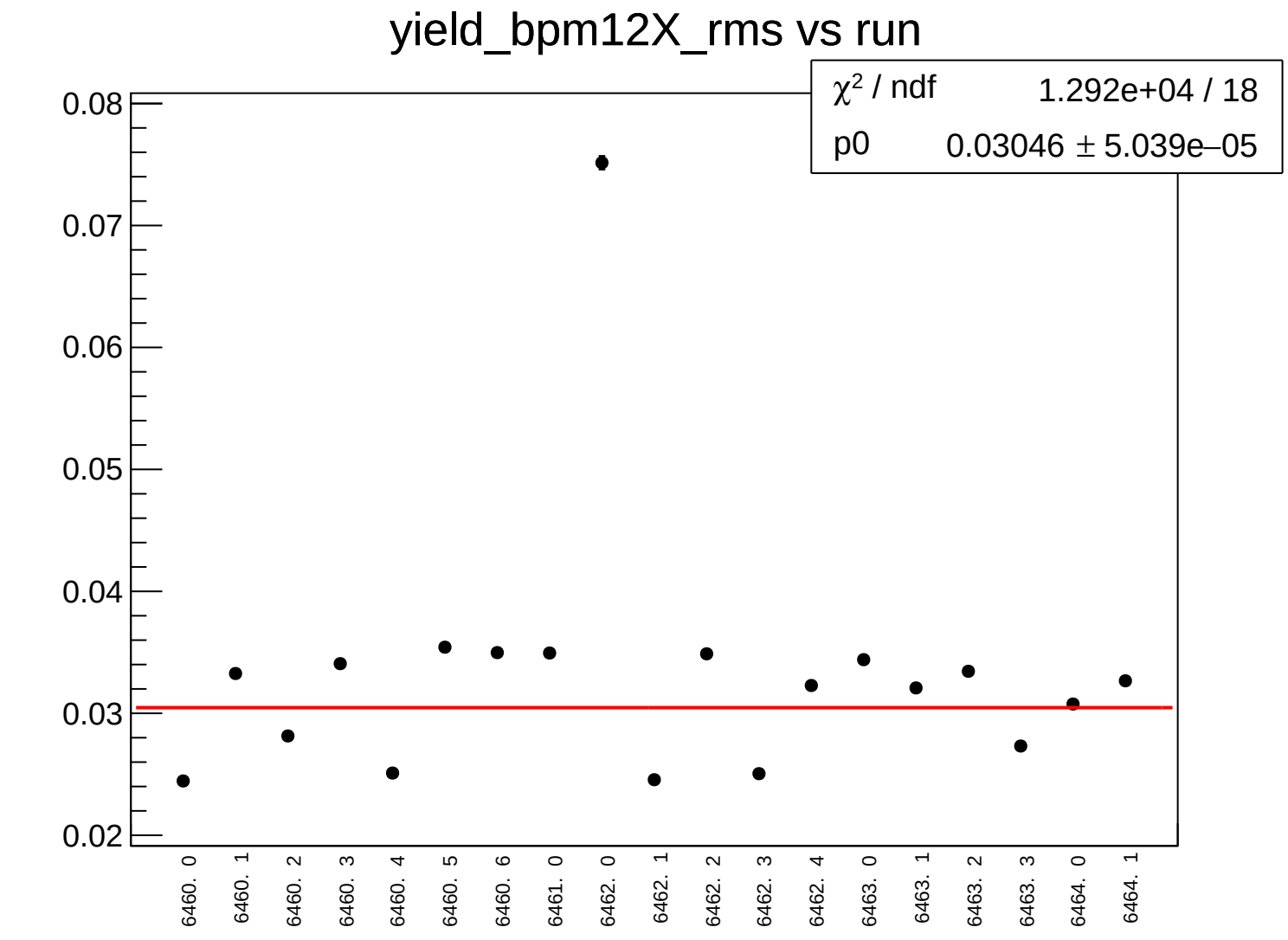

yield_bpm11Y_mean vs run
χ² / ndf 2.553e+06 / 18
p0 0.3386 ± 2.516e−05
0.38
0.36
0.34
0.32
0.3
0.28
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 123.5
Std Dev 114.5
400
200
0
−200
−400

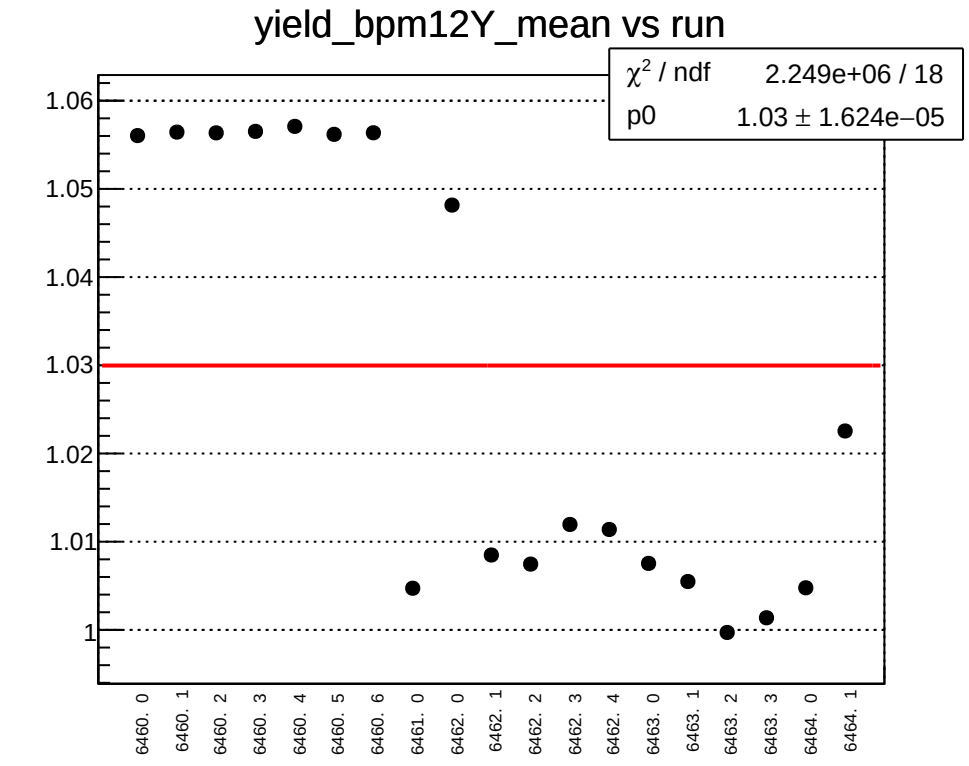

pull1D
Entries 19
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

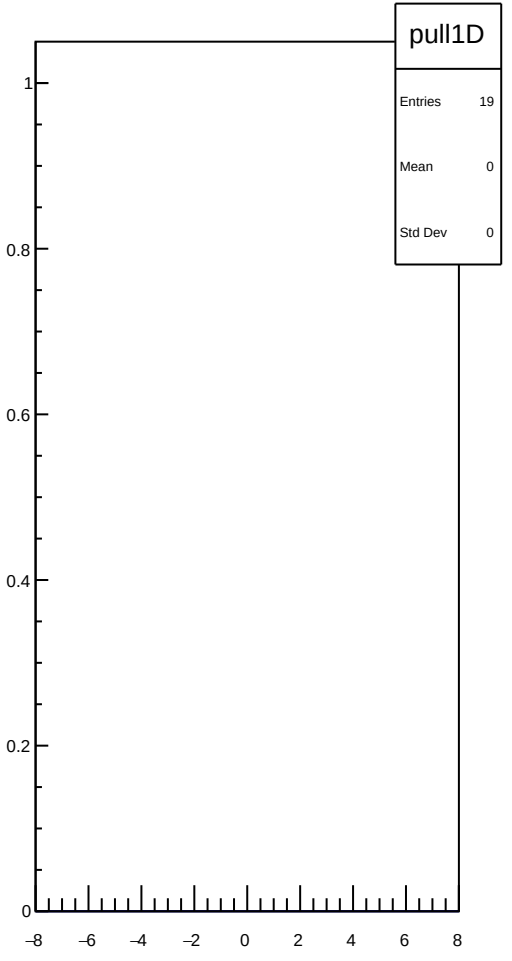

yield_bpm11Y_rms vs run
χ² / ndf 2.742e+04 / 18
p0 0.01054 ± 1.779e−05
0.06
0.05
0.04
0.03
0.02
0.01
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

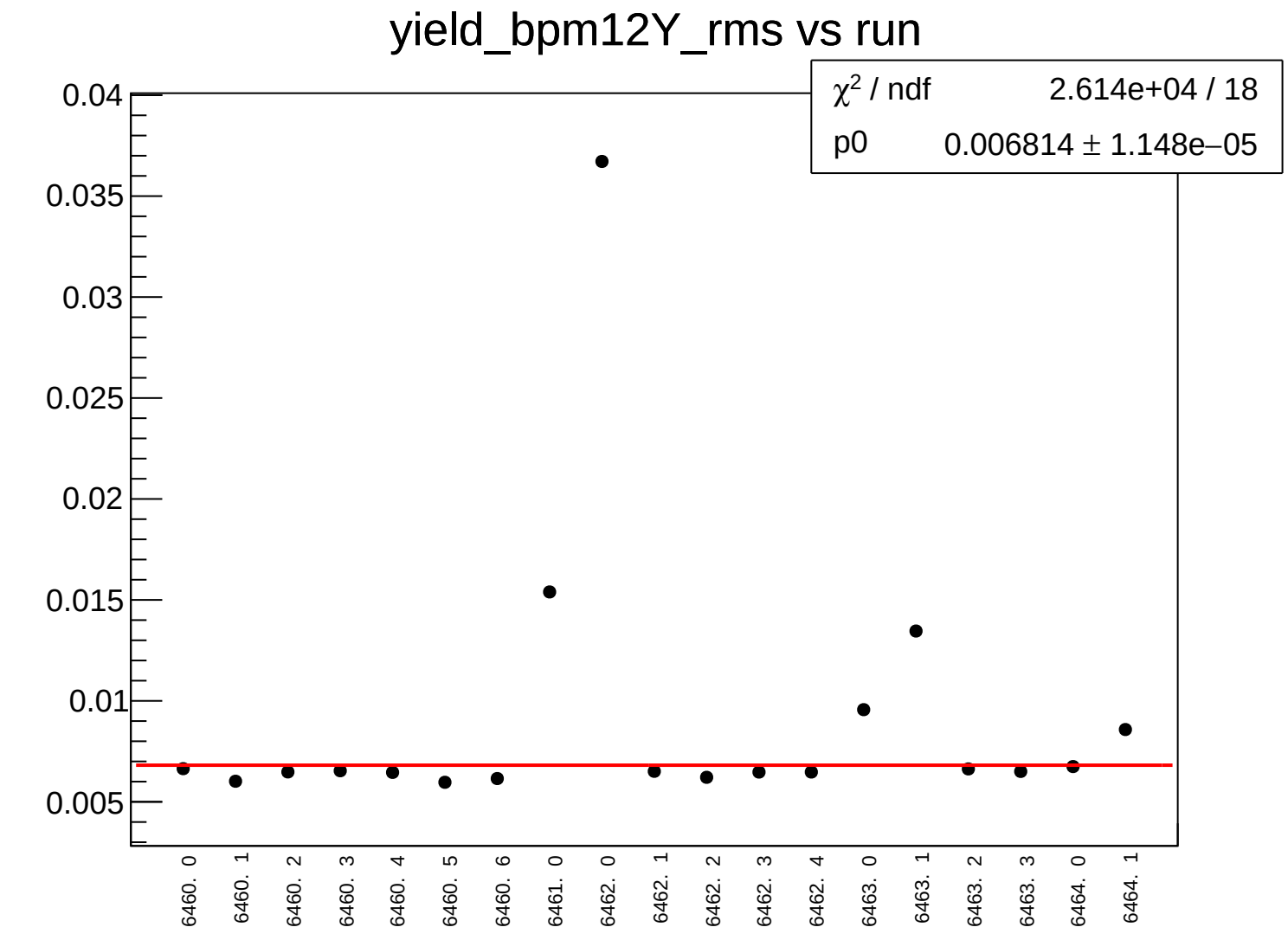

yield_bpm12X_mean vs run
χ² / ndf 1.007e+04 / 18
p0 −1.04 ± 7.127e−05
−0.97
−0.98
−0.99
−1
−1.01
−1.02
−1.03
−1.04
−1.05
−1.06
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 18.22
Std Dev 10.39
80
60
40
20
0
−20

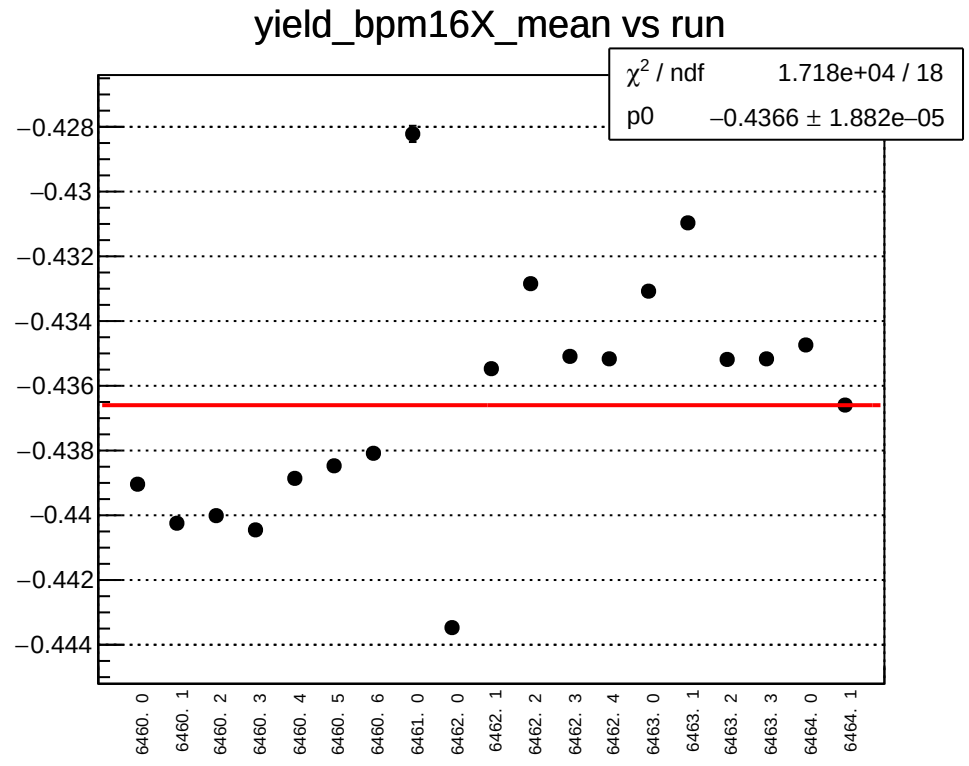

pull1D
Entries 19
Mean 1.659
Std Dev 4.643
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

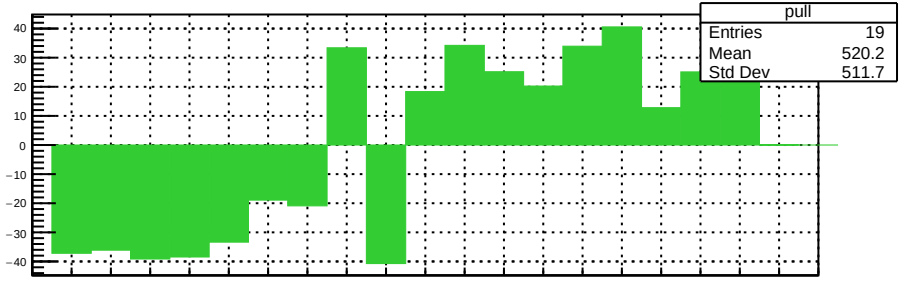

yield_bpm12X_rms vs run
χ² / ndf 1.292e+04 / 18
p0 0.03046 ± 5.039e–05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

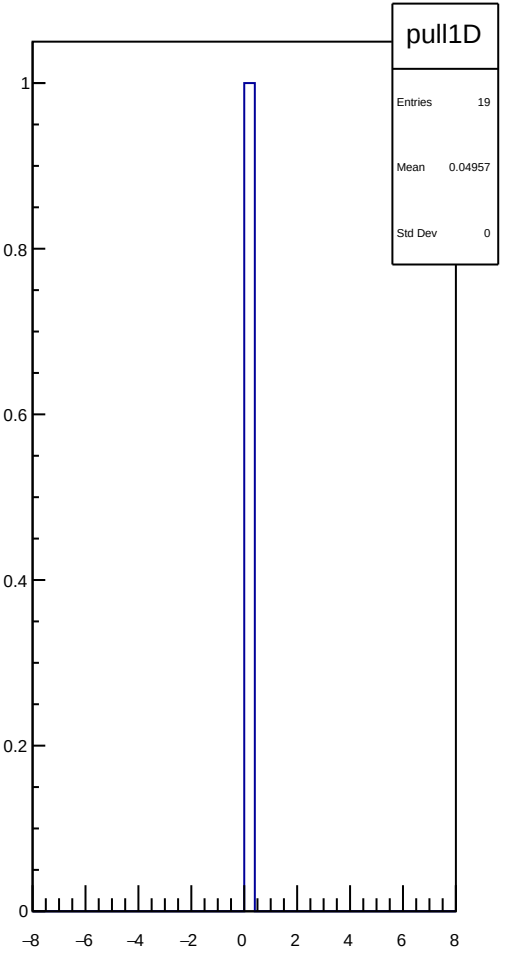

yield_bpm12Y_mean vs run
χ² / ndf 2.249e+06 / 18
p0 1.03 ± 1.624e−05
1.06
1.05
1.04
1.03
1.02
1.01
1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 124.6
Std Dev 115.6
400
200
0
−200
−400

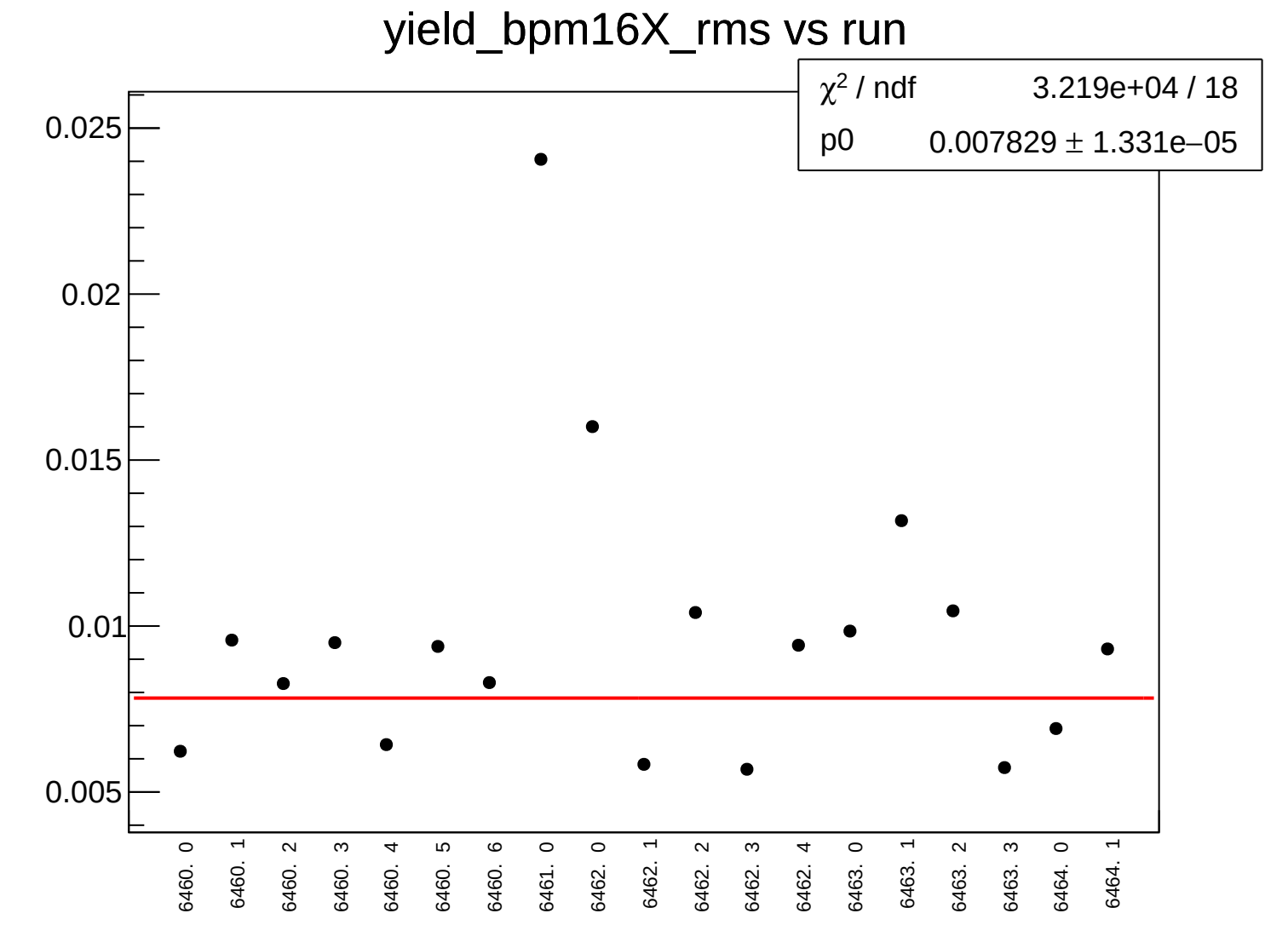

pull1D
Entries 19
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

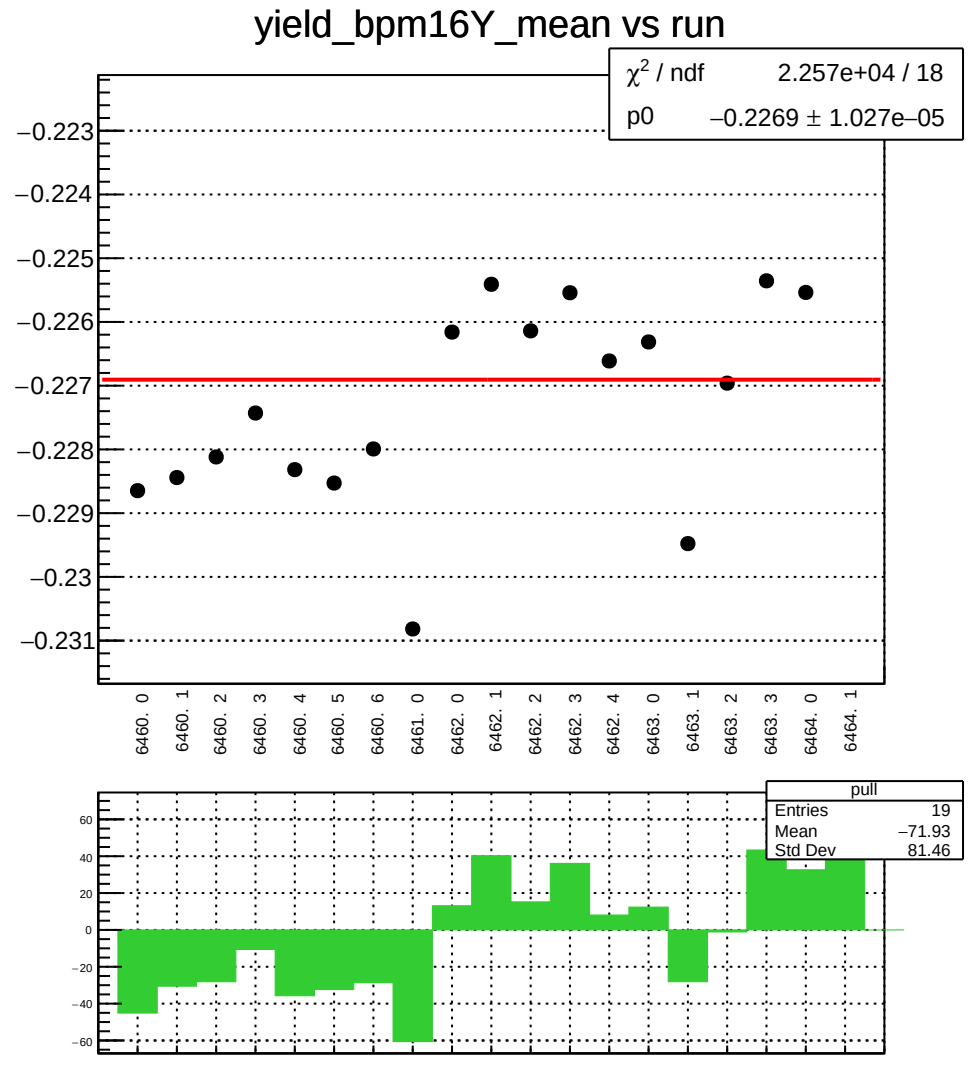

yield_bpm12Y_rms vs run
χ² / ndf 2.614e+04 / 18
p0 0.006814 ± 1.148e−05
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

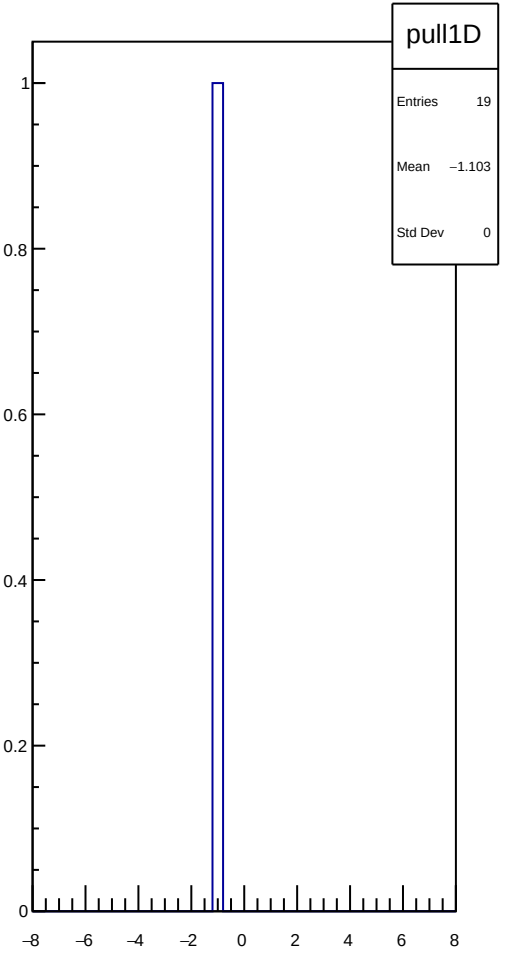

yield_bpm16X_mean vs run
χ² / ndf 1.718e+04 / 18
p0 −0.4366 ± 1.882e−05
−0.428
−0.43
−0.432
−0.434
−0.436
−0.438
−0.44
−0.442
−0.444
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

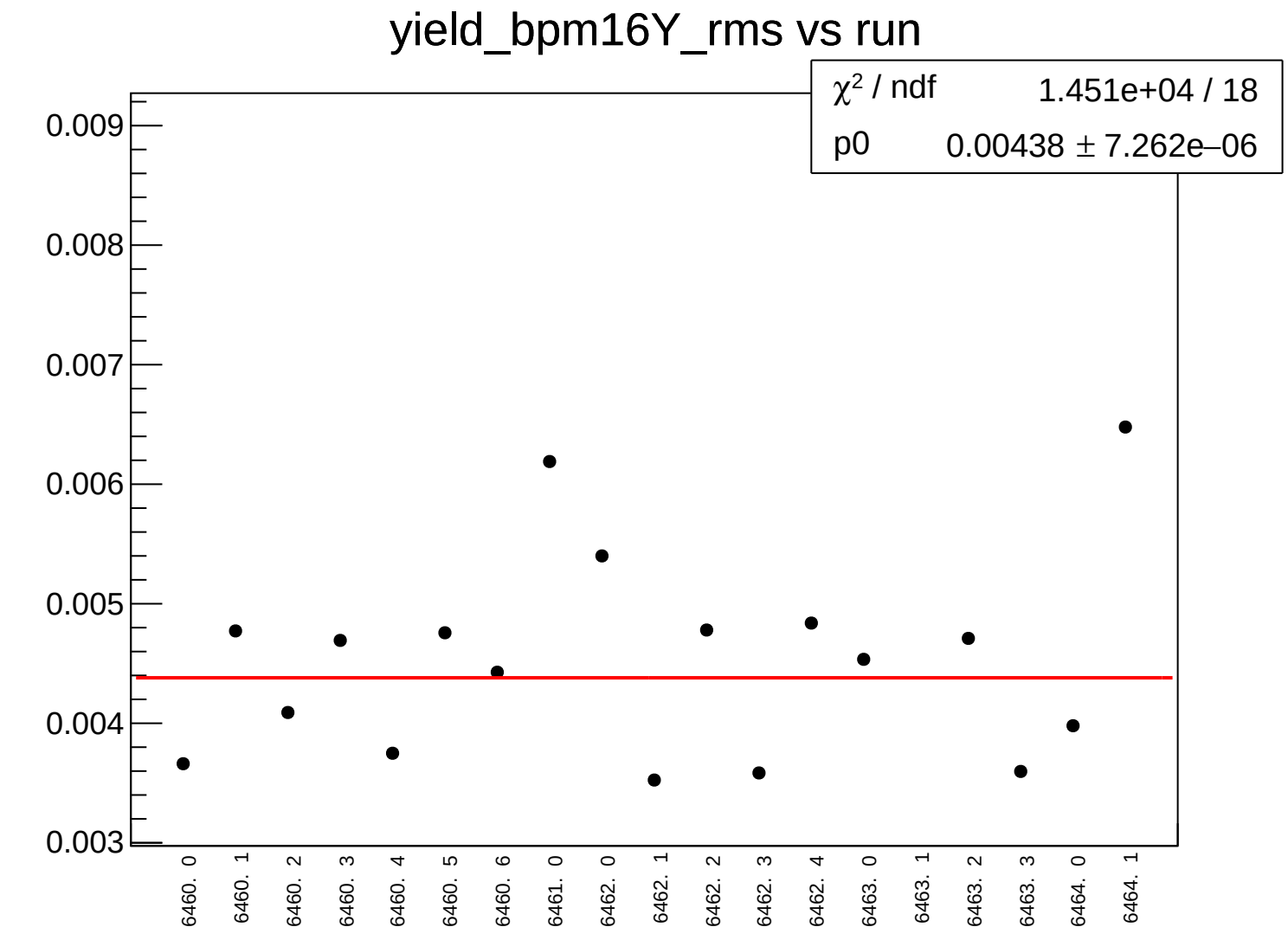

pull
Entries 19
Mean 520.2
Std Dev 511.7
40
30
20
10
0
−10
−20
−30
−40

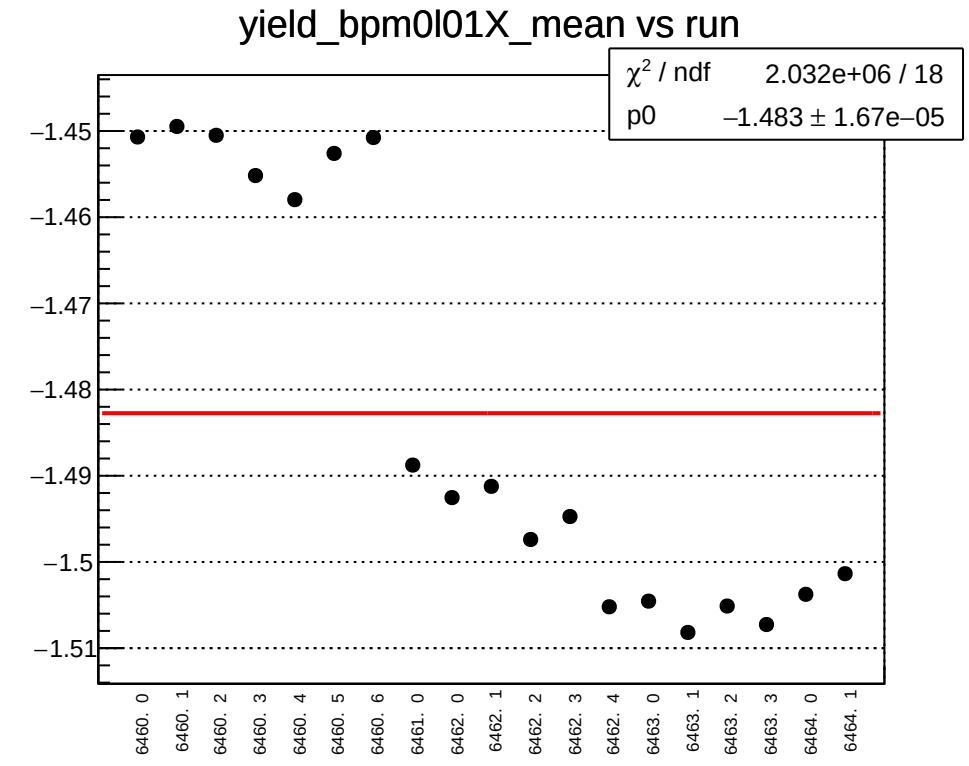

pull1D
Entries 19
Mean 0.04957
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

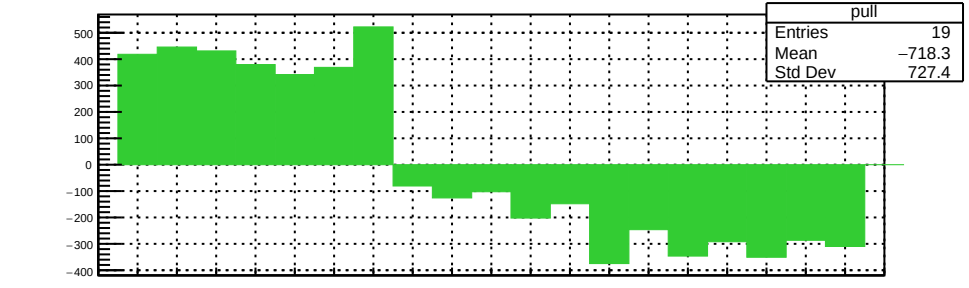

yield_bpm16X_rms vs run
χ² / ndf 3.219e+04 / 18
p0 0.007829 ± 1.331e−05
0.025
0.02
0.015
0.01
0.005
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

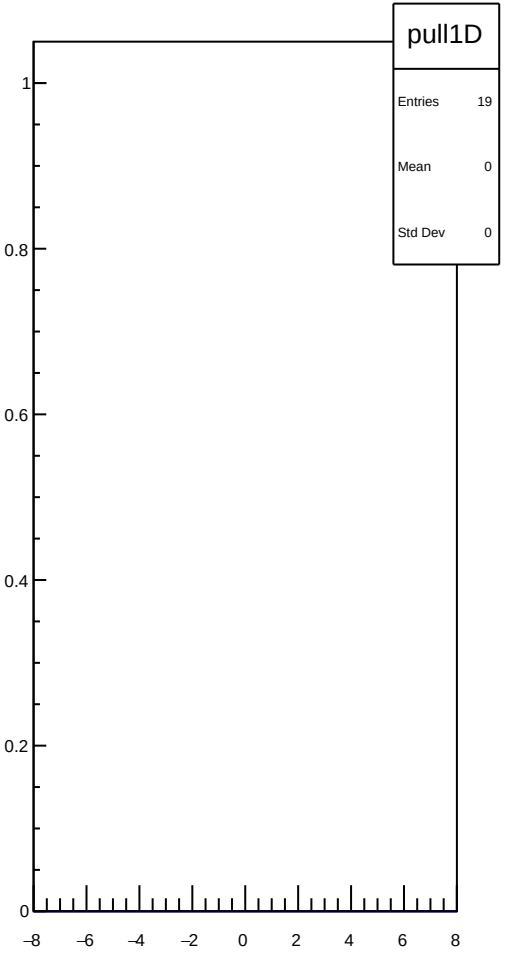

yield_bpm16Y_mean vs run
χ² / ndf 2.257e+04 / 18
p0 −0.2269 ± 1.027e−05
−0.223
−0.224
−0.225
−0.226
−0.227
−0.228
−0.229
−0.23
−0.231
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −71.93
Std Dev 81.46
60
40
20
0
−20
−40
−60

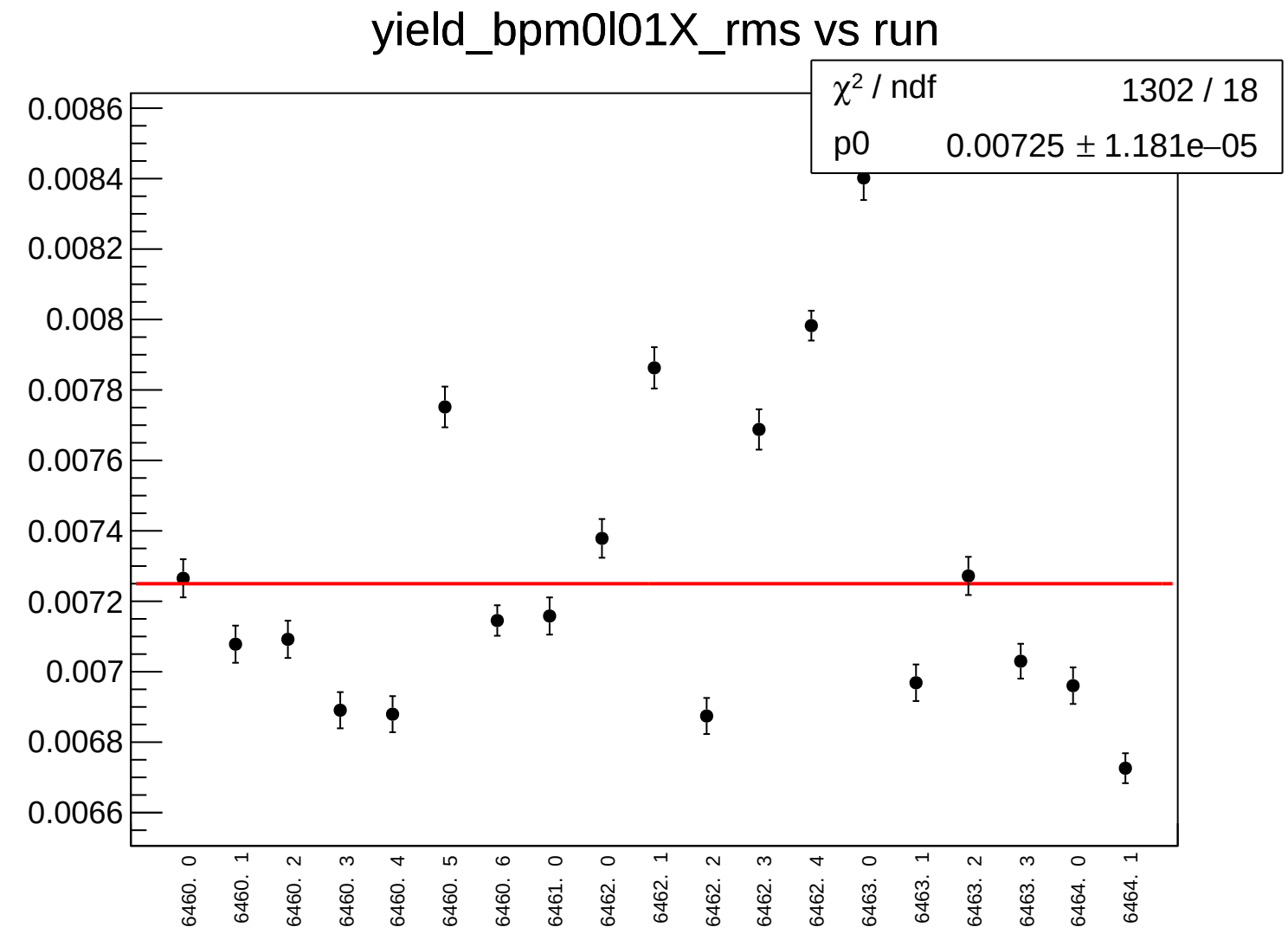

pull1D
Entries 19
Mean −1.103
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

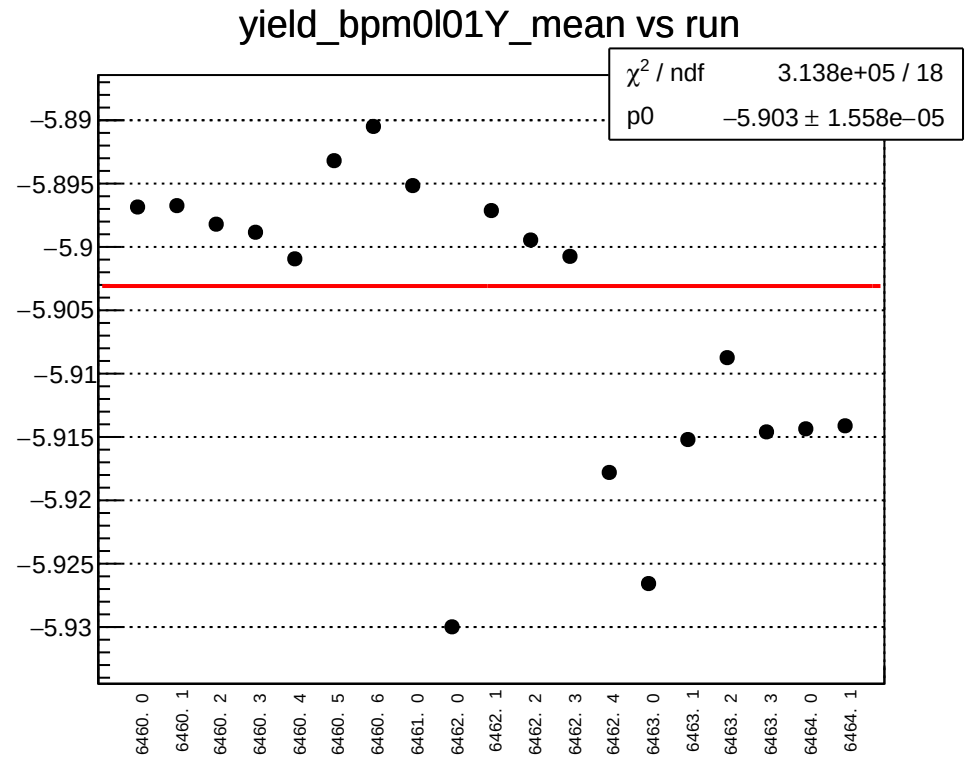

yield_bpm16Y_rms vs run
χ² / ndf 1.451e+04 / 18
p0 0.00438 ± 7.262e–06
0.009
0.008
0.007
0.006
0.005
0.004
0.003
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

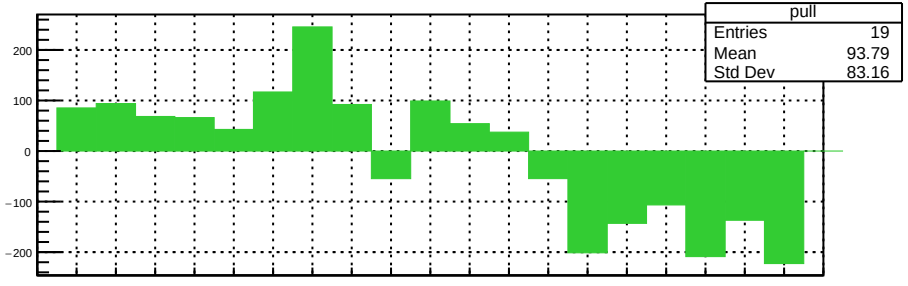

yield_bpm0l01X_mean vs run
χ² / ndf 2.032e+06 / 18
p0 −1.483 ± 1.67e−05
−1.45
−1.46
−1.47
−1.48
−1.49
−1.5
−1.51
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

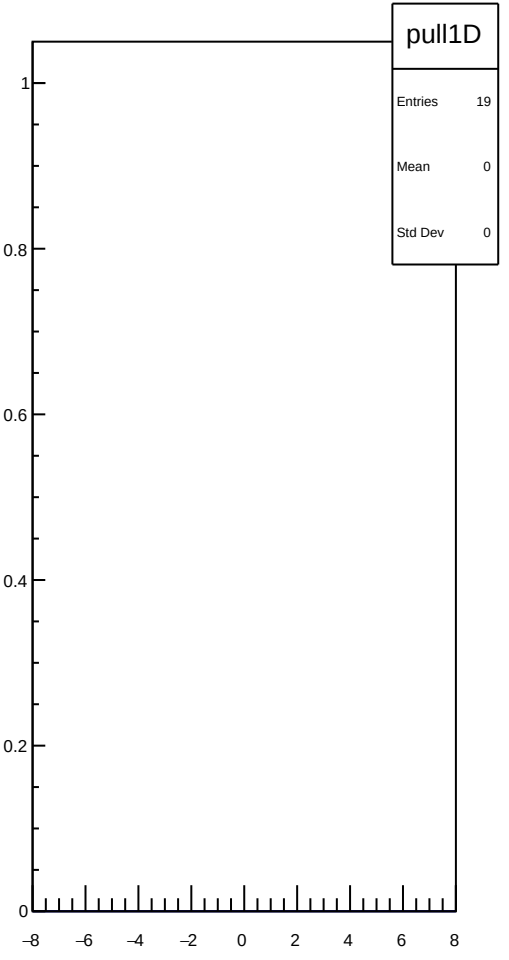

pull
Entries 19
Mean −718.3
Std Dev 727.4
500
400
300
200
100
0
−100
−200
−300
−400

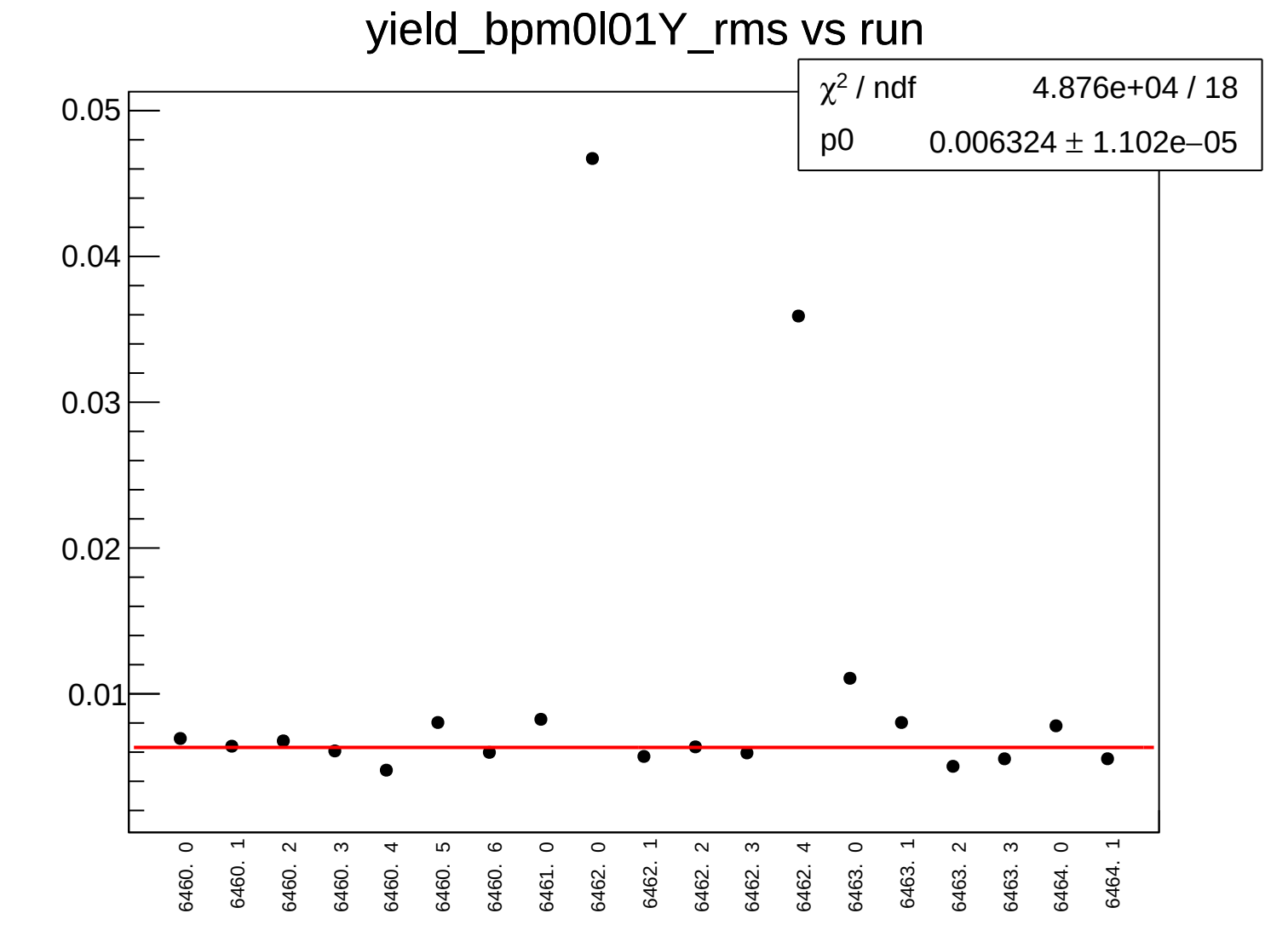

pull1D
Entries 19
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

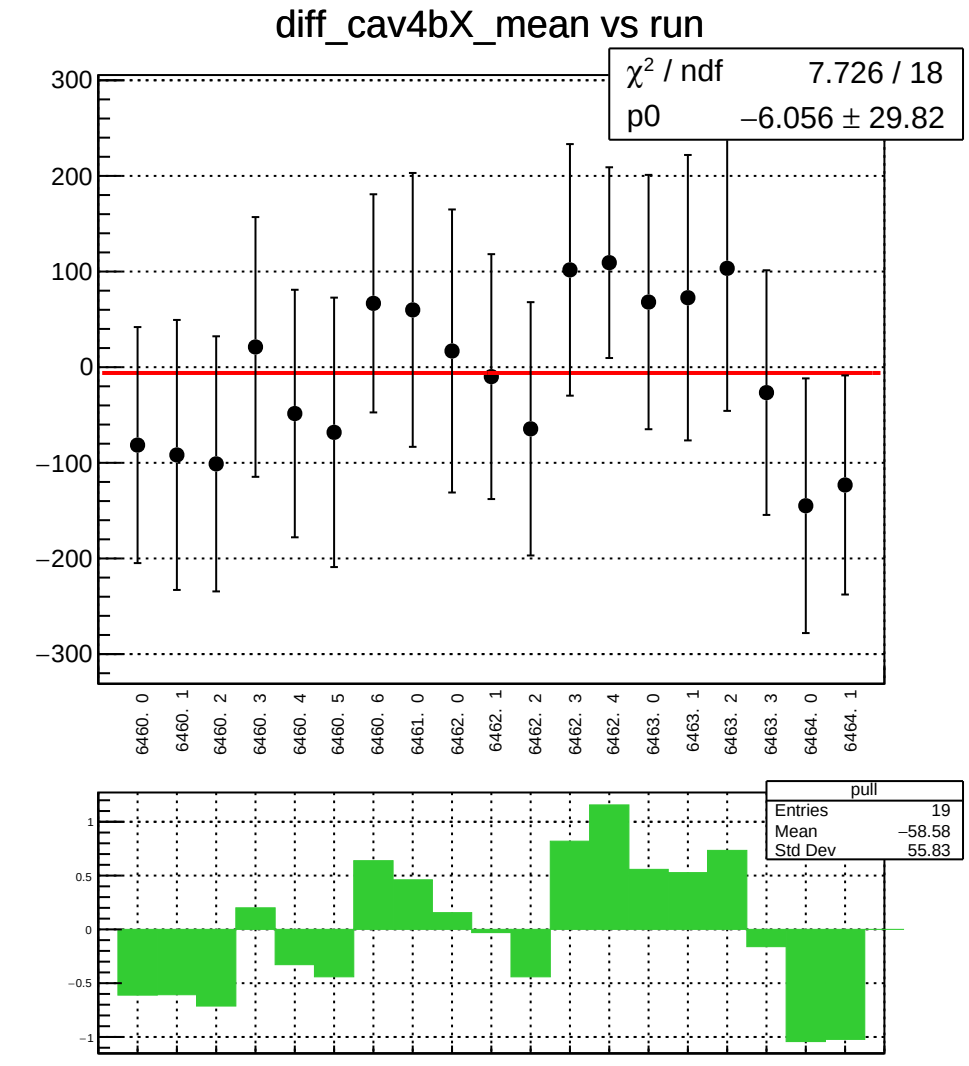

yield_bpm0l01X_rms vs run
χ² / ndf 1302 / 18
p0 0.00725 ± 1.181e–05
0.0086
0.0084
0.0082
0.008
0.0078
0.0076
0.0074
0.0072
0.007
0.0068
0.0066
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

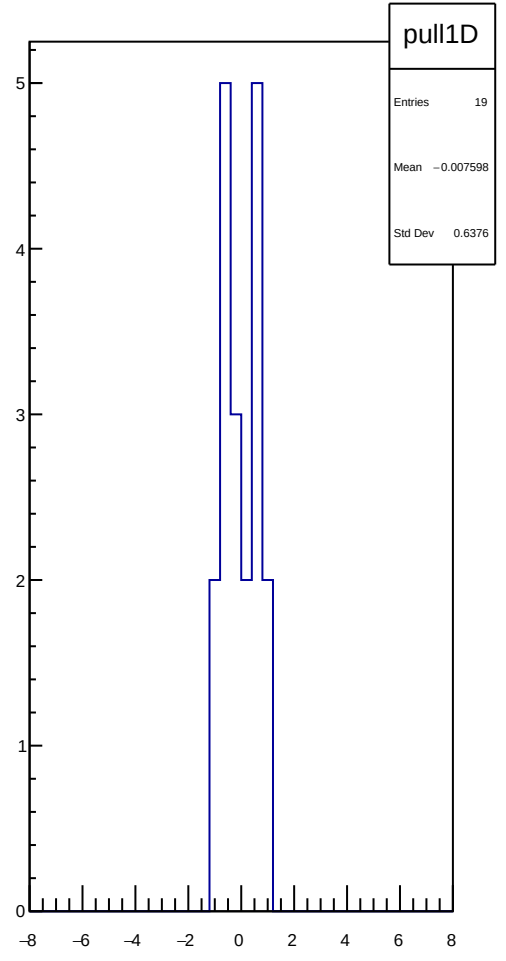

yield_bpm0l01Y_mean vs run
χ² / ndf 3.138e+05 / 18
p0 −5.903 ± 1.558e−05
−5.89
−5.895
−5.9
−5.905
−5.91
−5.915
−5.92
−5.925
−5.93
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

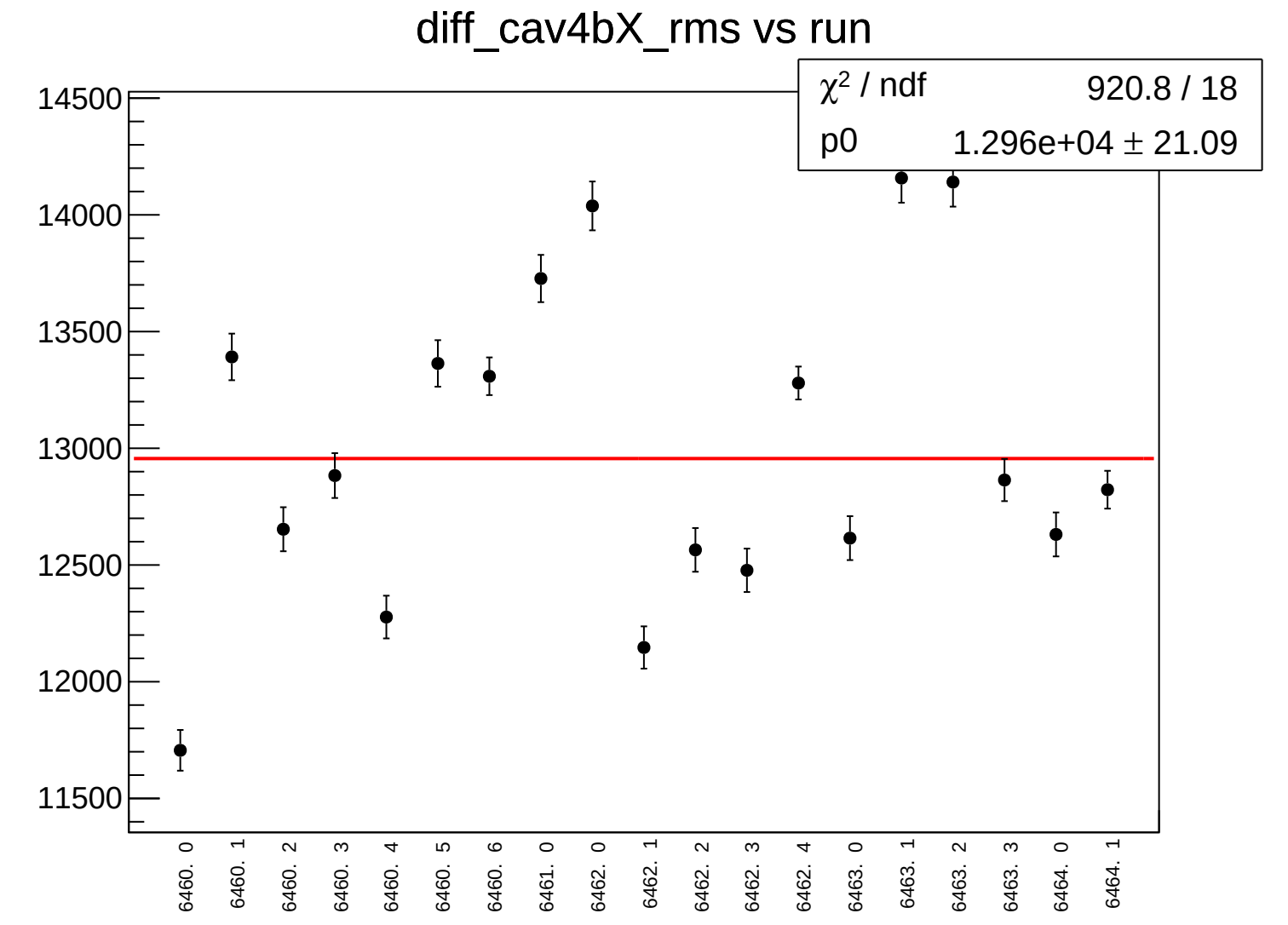

pull
Entries 19
Mean 93.79
Std Dev 83.16
200
100
0
−100
−200

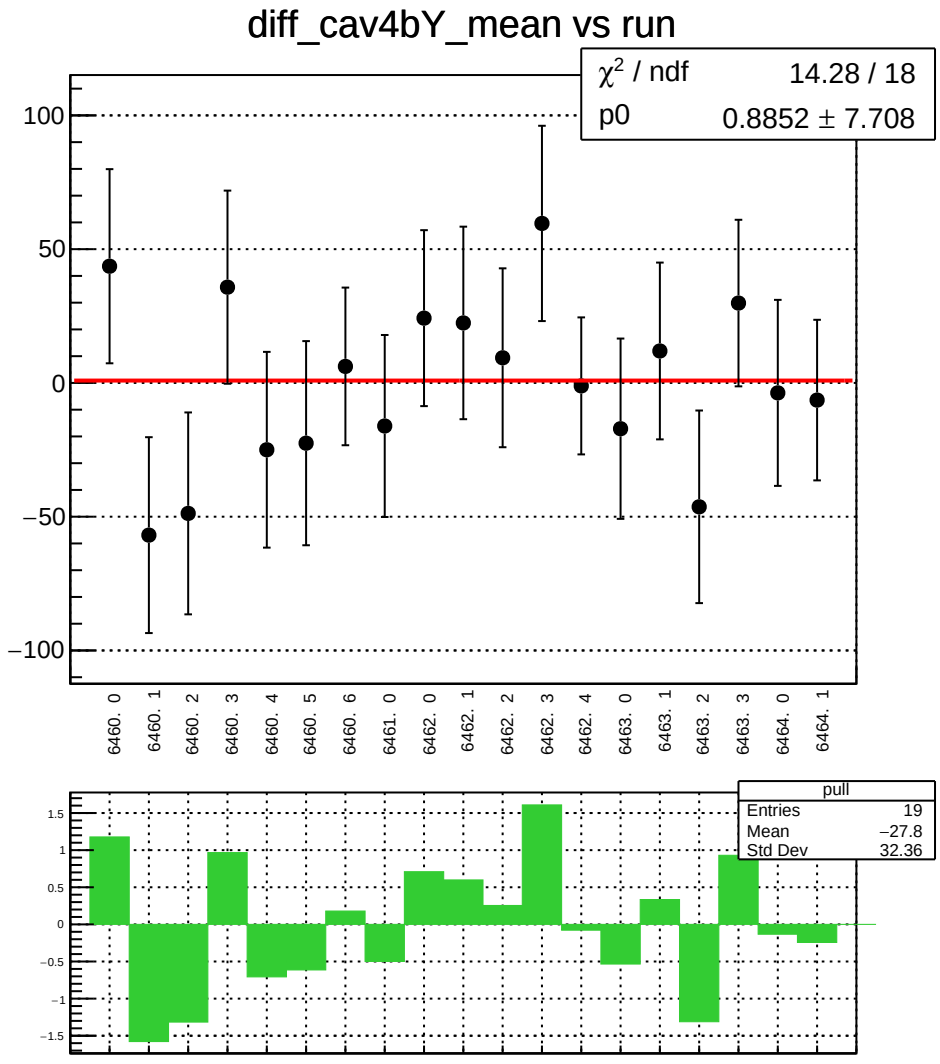

pull1D
Entries 19
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

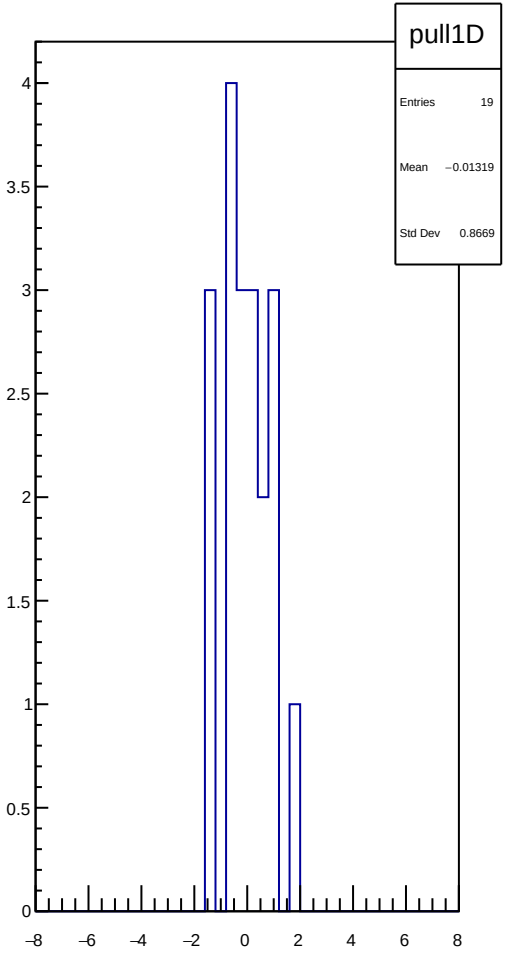

yield_bpm0l01Y_rms vs run
χ² / ndf 4.876e+04 / 18
p0 0.006324 ± 1.102e−05
0.05
0.04
0.03
0.02
0.01
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

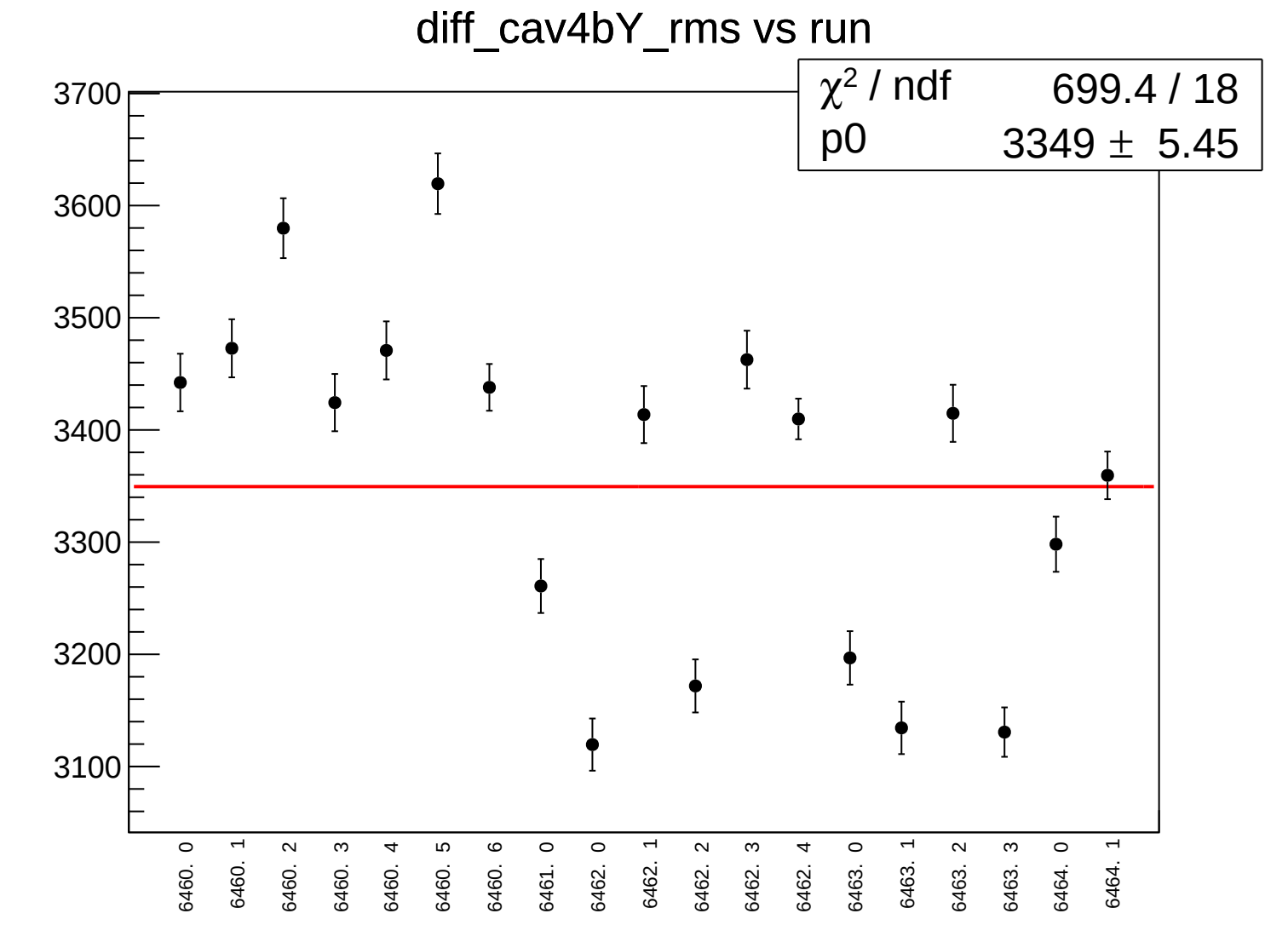

diff_cav4bX_mean vs run
χ² / ndf 7.726 / 18
p0 −6.056 ± 29.82
300
200
100
0
−100
−200
−300
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −58.58
Std Dev 55.83
1
0.5
0
−0.5
−1

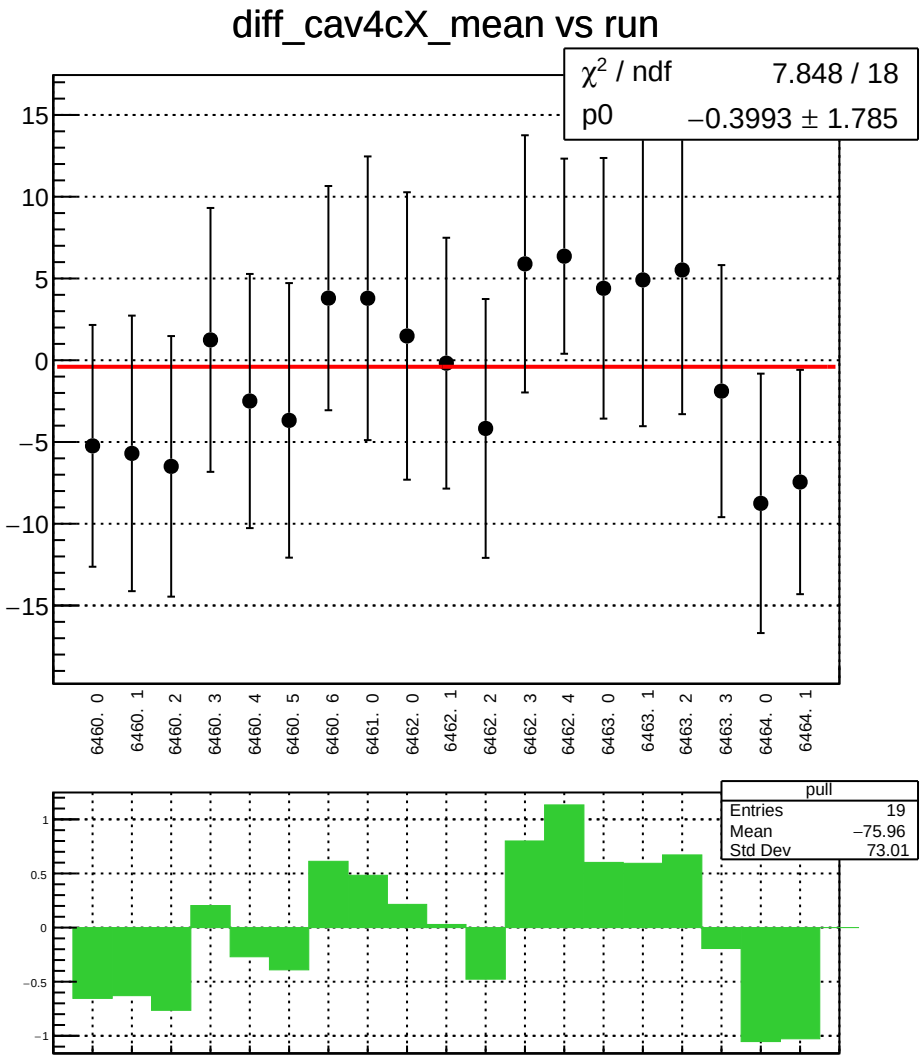

pull1D
Entries 19
Mean −0.007598
Std Dev 0.6376
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

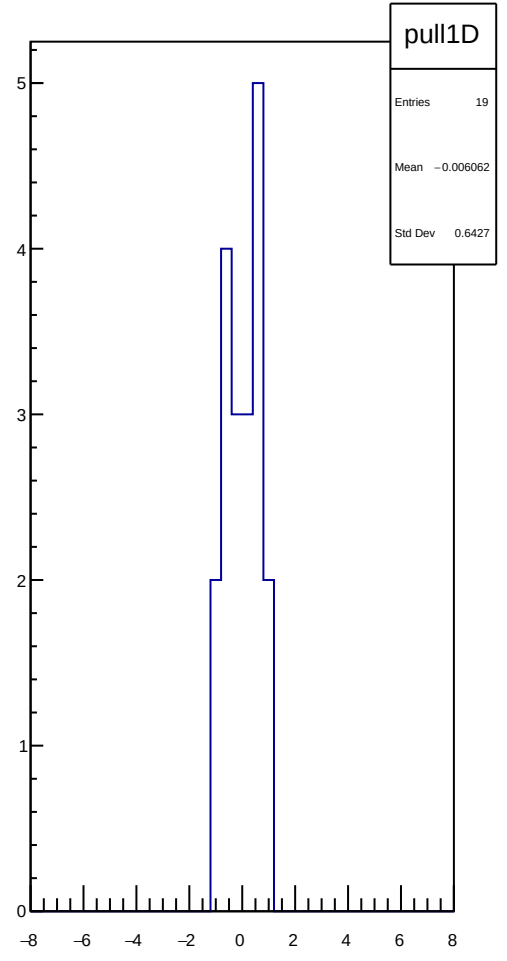

diff_cav4bX_rms vs run
χ² / ndf 920.8 / 18
p0 1.296e+04 ± 21.09
14500
14000
13500
13000
12500
12000
11500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

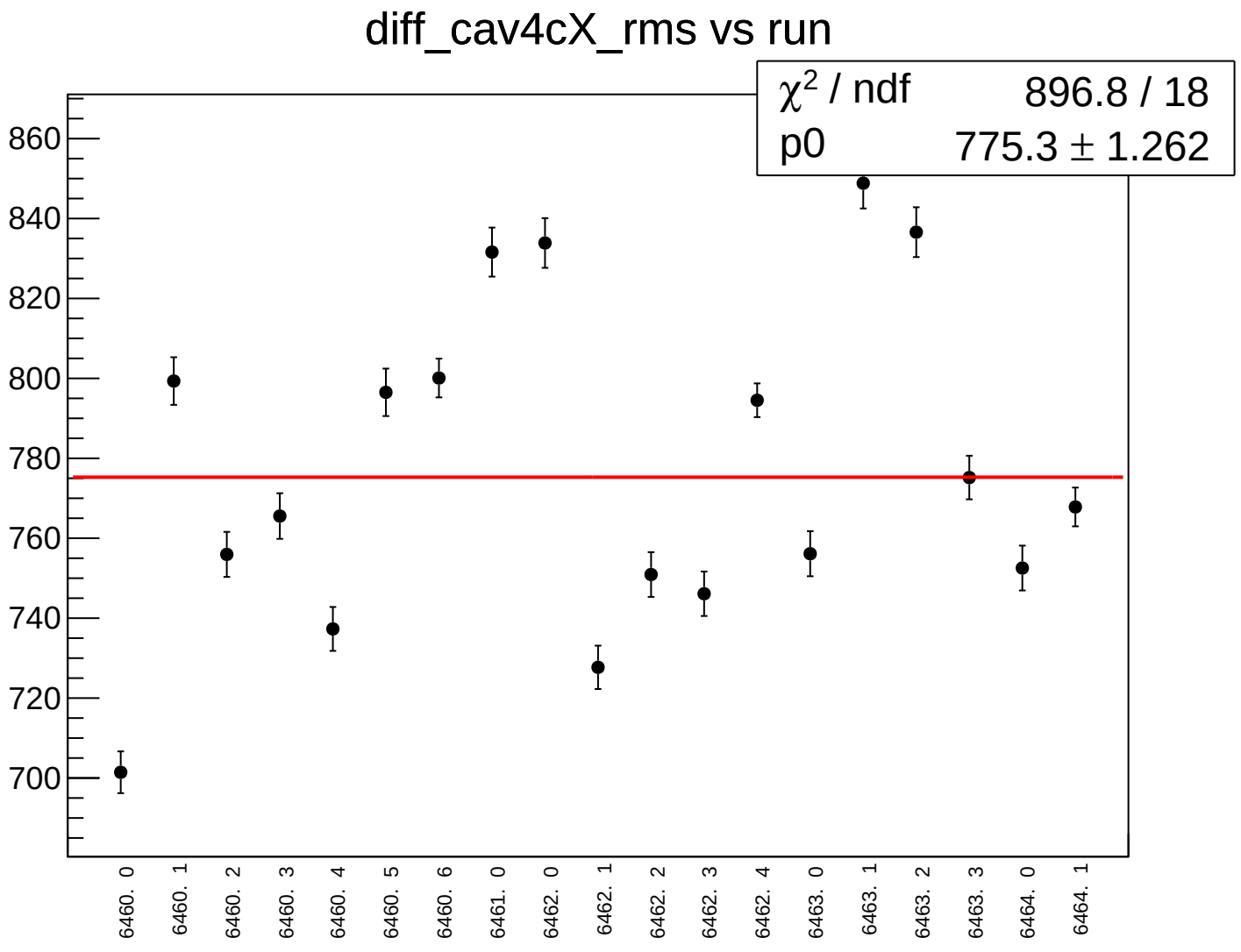

diff_cav4bY_mean vs run
χ² / ndf 14.28 / 18
p0 0.8852 ± 7.708
100
50
0
−50
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −27.8
Std Dev 32.36
1.5
1
0.5
0
−0.5
−1
−1.5

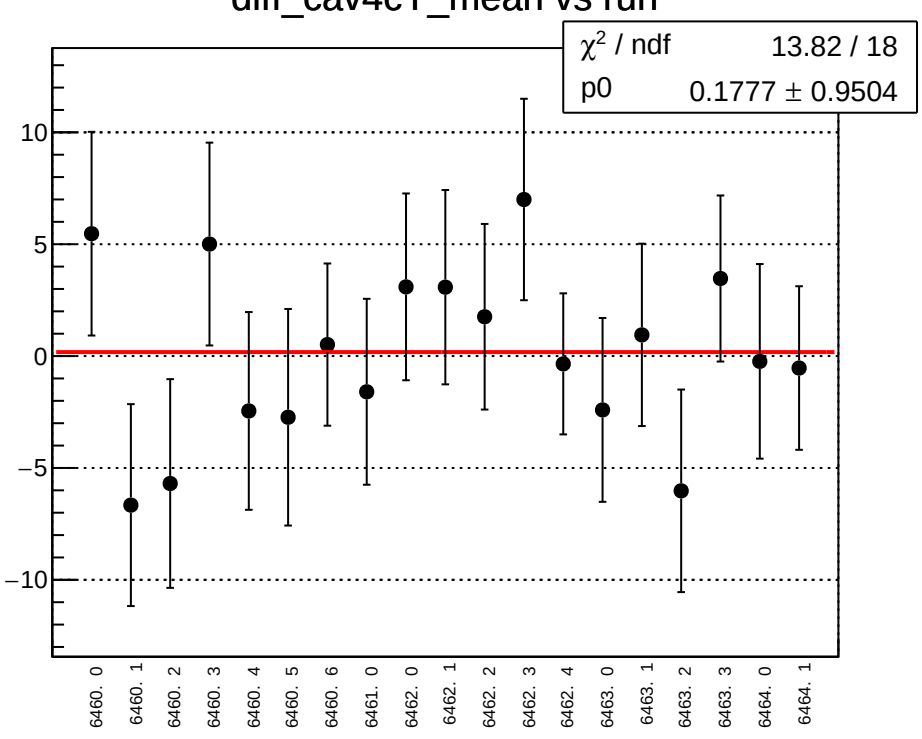

pull1D
Entries 19
Mean −0.01319
Std Dev 0.8669
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

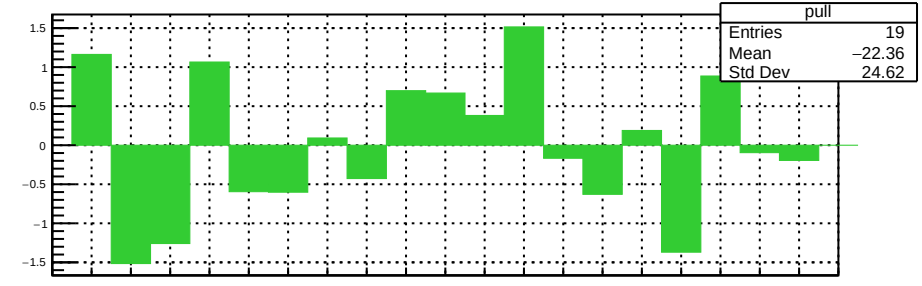

diff_cav4bY_rms vs run
χ² / ndf 699.4 / 18
p0 3349 ± 5.45
3700
3600
3500
3400
3300
3200
3100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

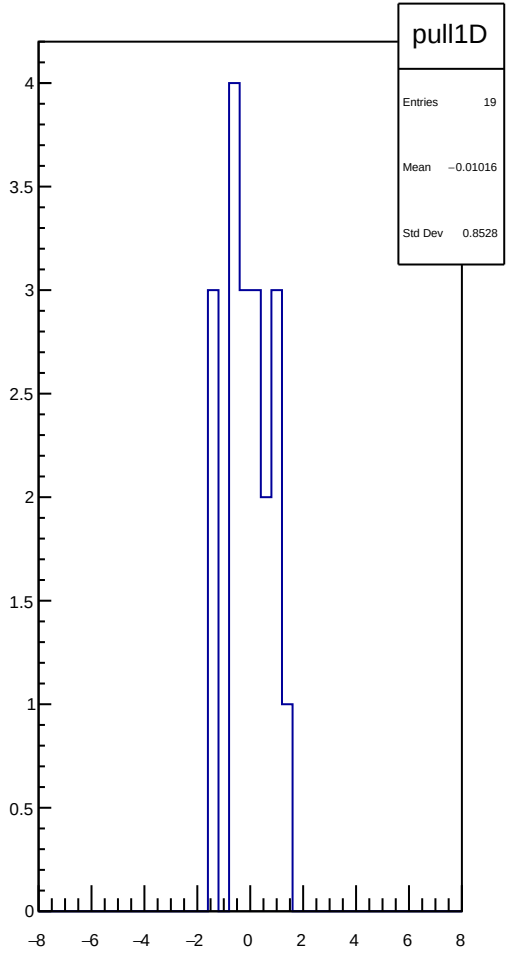

diff_cav4cX_mean vs run
χ² / ndf 7.848 / 18
p0 −0.3993 ± 1.785
15
10
5
0
−5
−10
−15
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −75.96
Std Dev 73.01
1
0.5
0
−0.5
−1

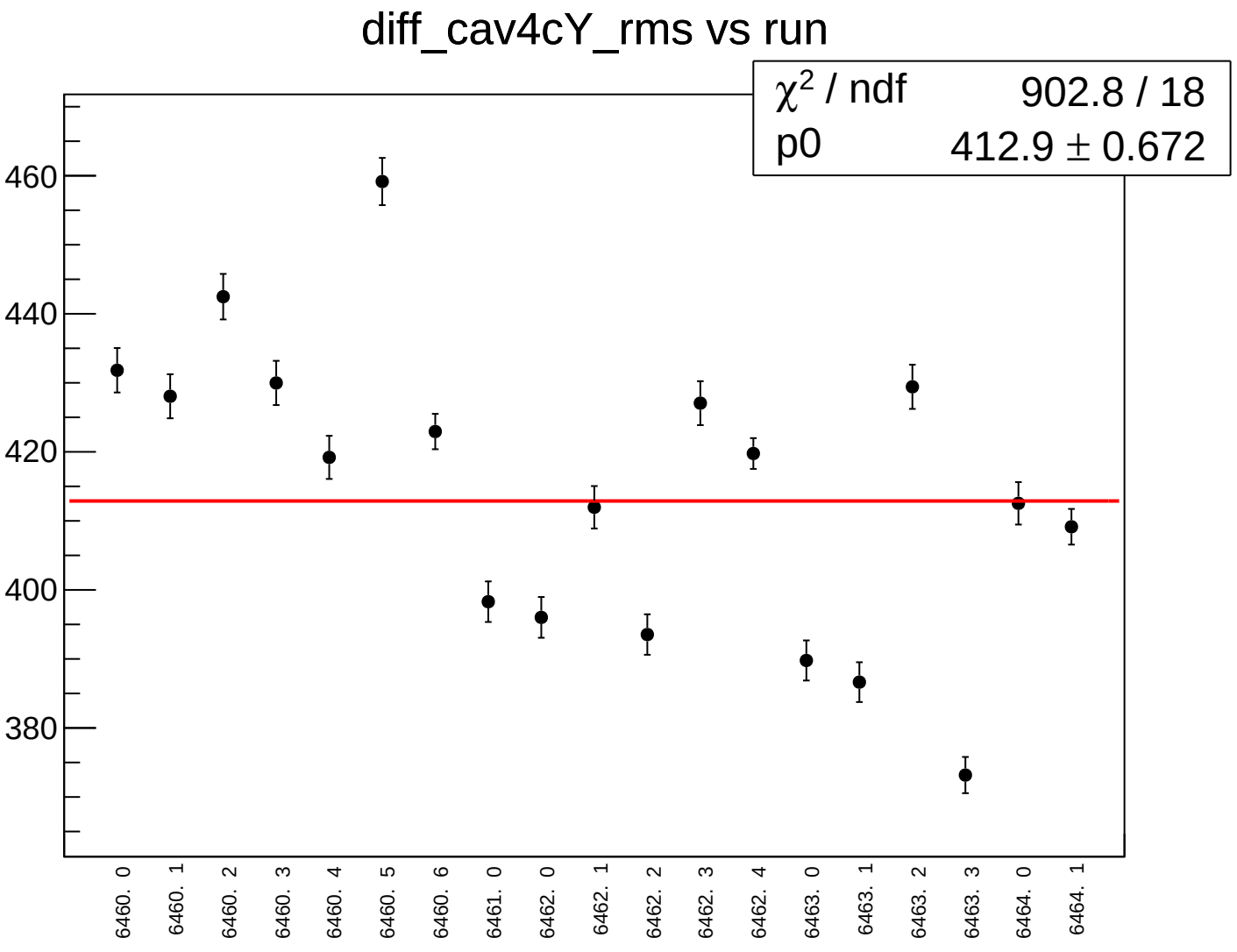

pull1D
Entries 19
Mean −0.006062
Std Dev 0.6427
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

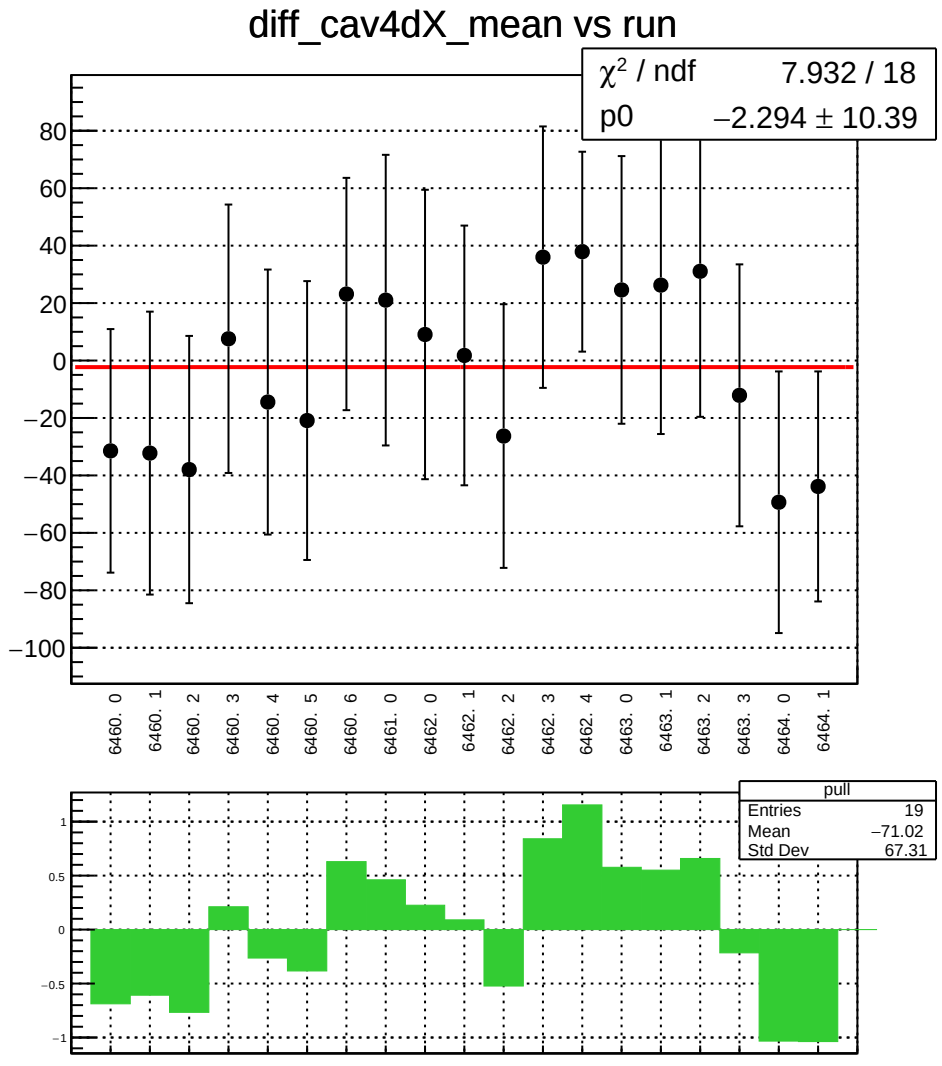

diff_cav4cX_rms vs run
χ^2 / ndf 896.8 / 18
p0 775.3 ± 1.262
860
840
820
800
780
760
740
720
700
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

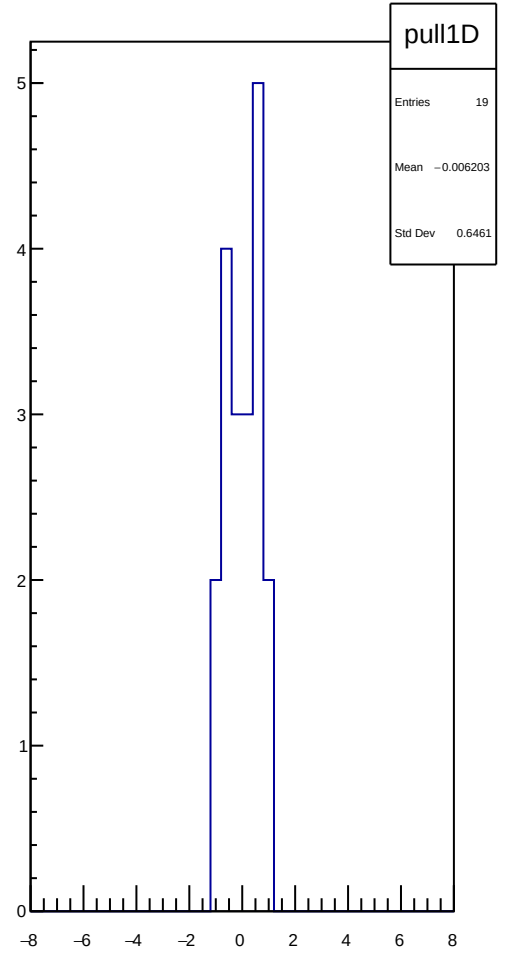

diff_cav4cY_mean vs run
χ² / ndf 13.82 / 18
p0 0.1777 ± 0.9504
10
5
0
−5
−10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

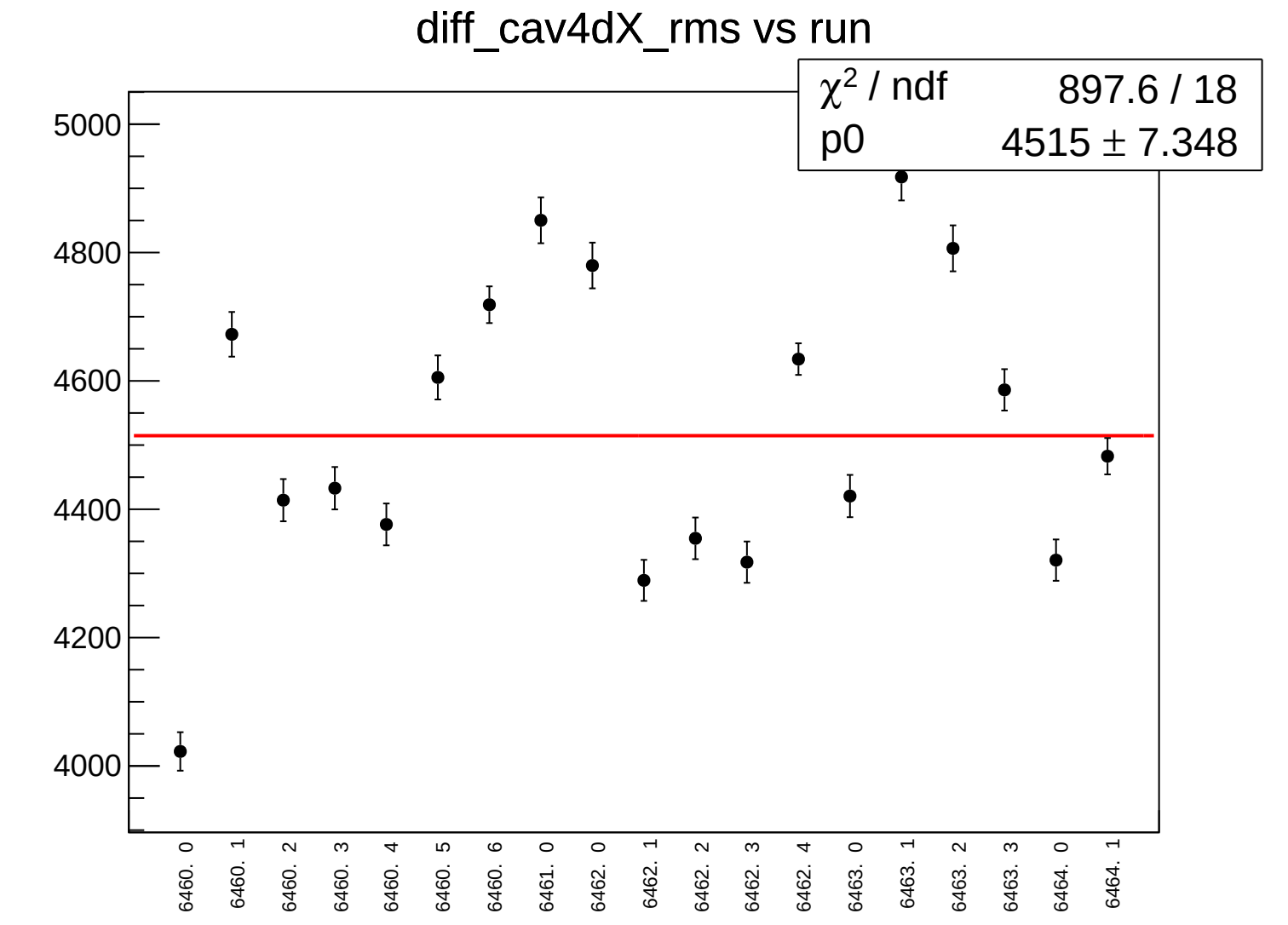

pull
Entries 19
Mean −22.36
Std Dev 24.62
1.5
1
0.5
0
−0.5
−1
−1.5

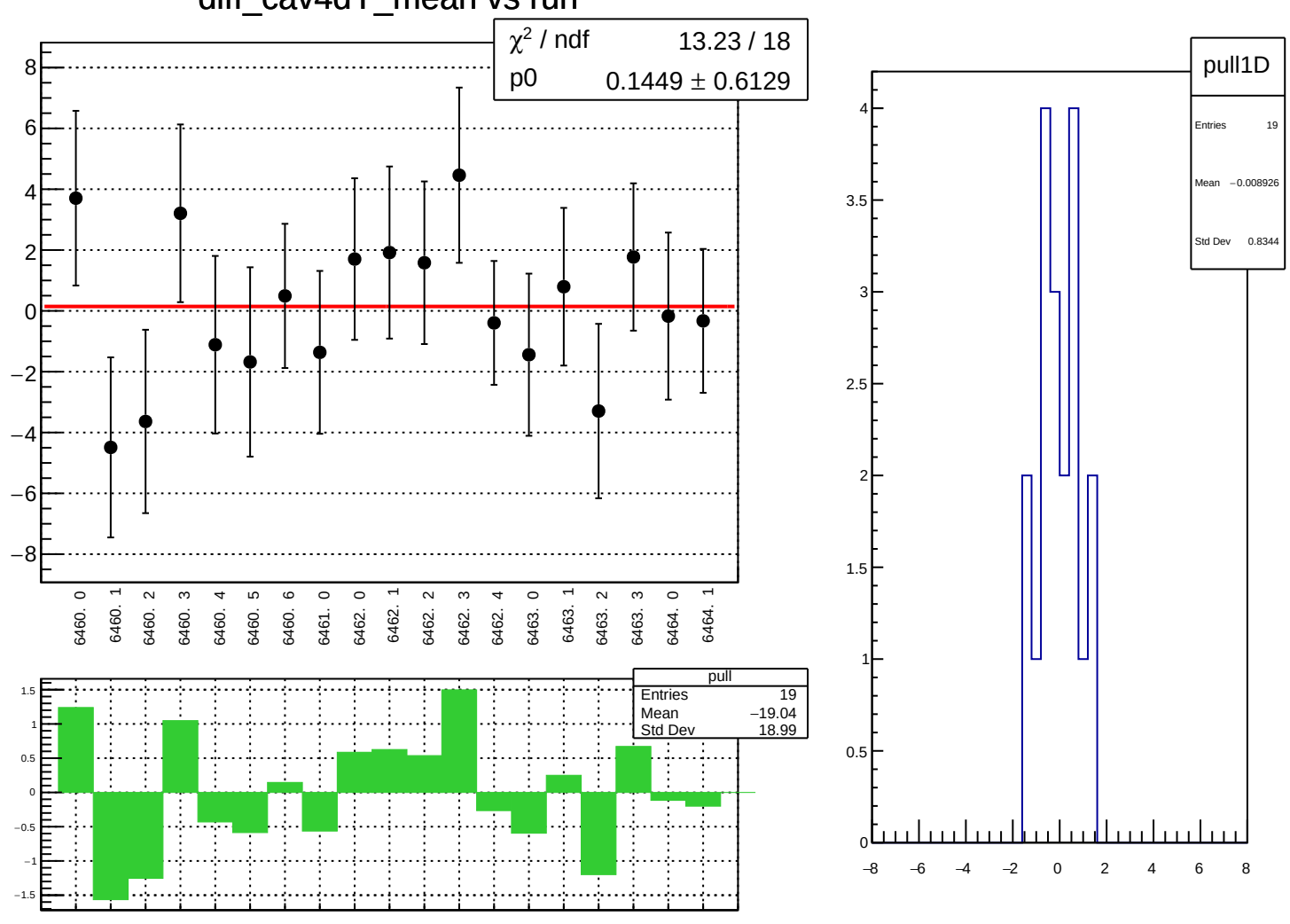

pull1D
Entries 19
Mean −0.01016
Std Dev 0.8528
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

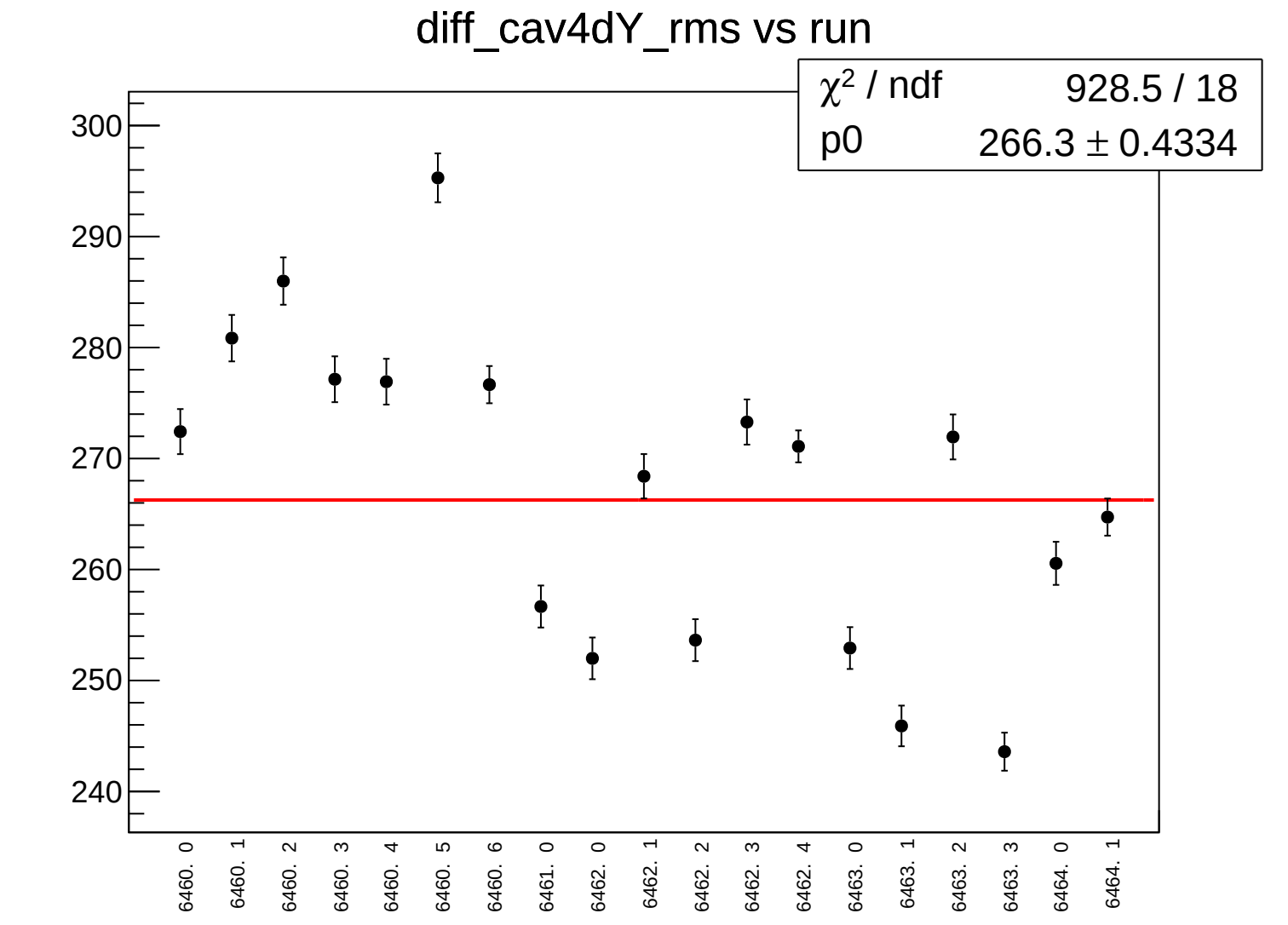

diff_cav4cY_rms vs run
χ² / ndf 902.8 / 18
p0 412.9 ± 0.672
460
440
420
400
380
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

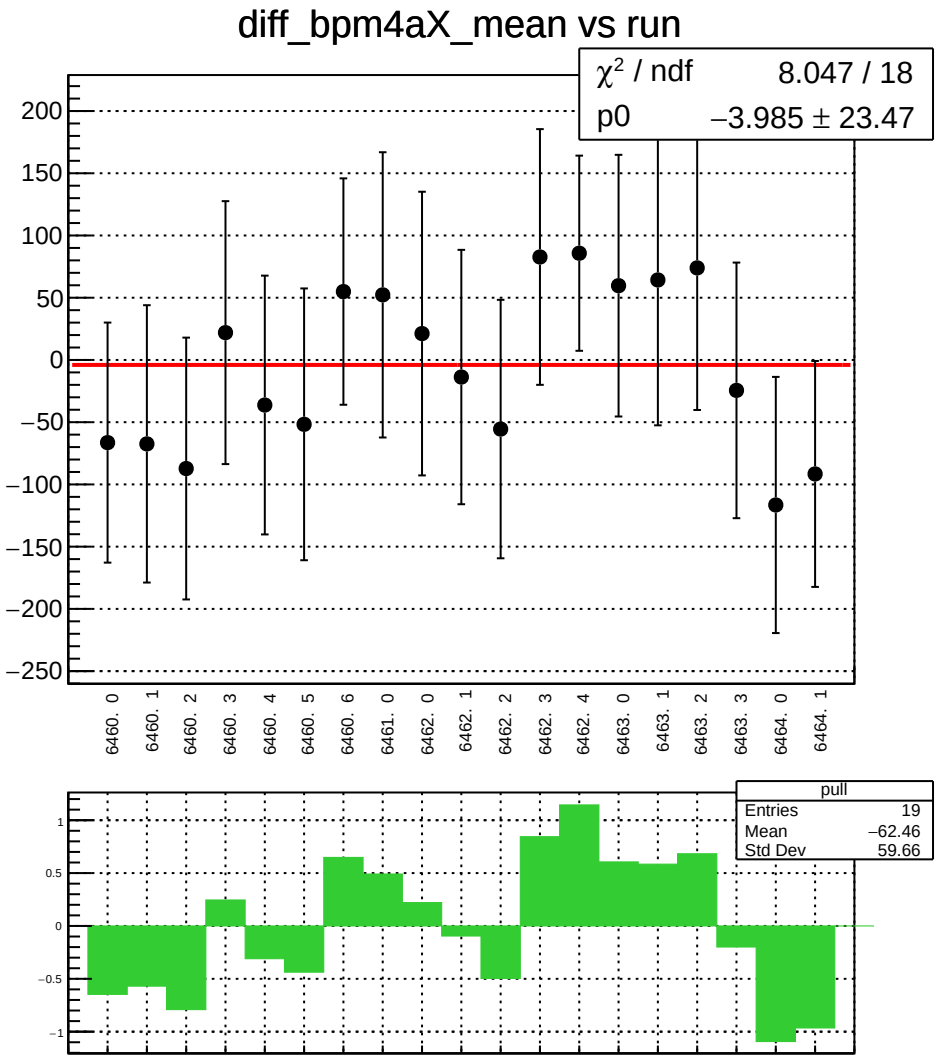

diff_cav4dX_mean vs run
χ² / ndf 7.932 / 18
p0 −2.294 ± 10.39
80
60
40
20
0
−20
−40
−60
−80
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −71.02
Std Dev 67.31
1
0.5
0
−0.5
−1

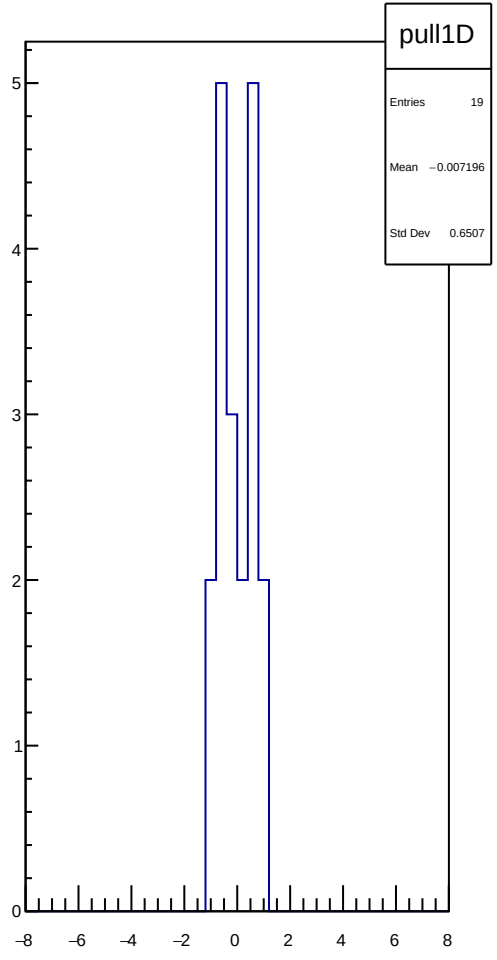

pull1D
Entries 19
Mean −0.006203
Std Dev 0.6461
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

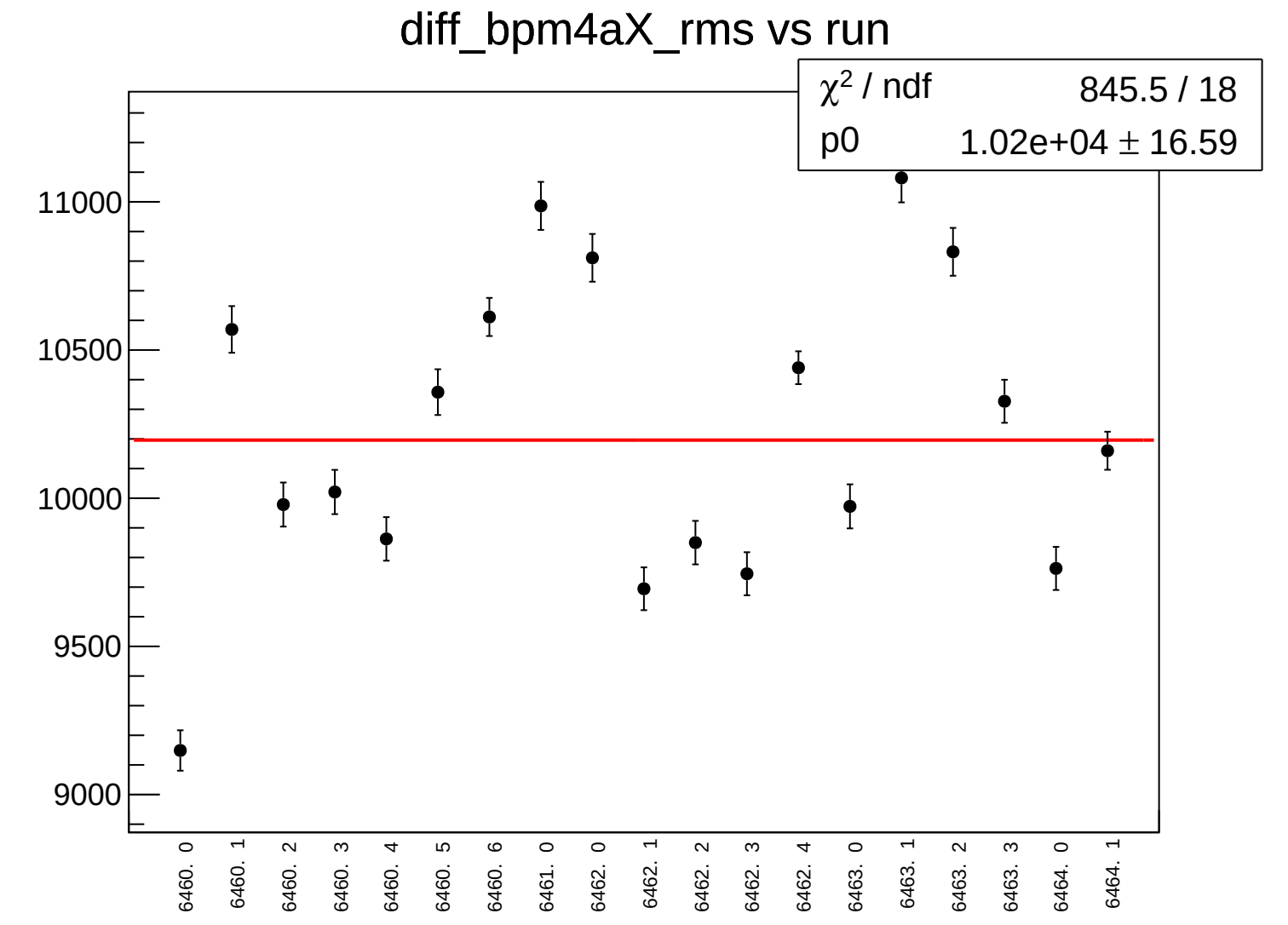

diff_cav4dX_rms vs run
χ² / ndf 897.6 / 18
p0 4515 ± 7.348
5000
4800
4600
4400
4200
4000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

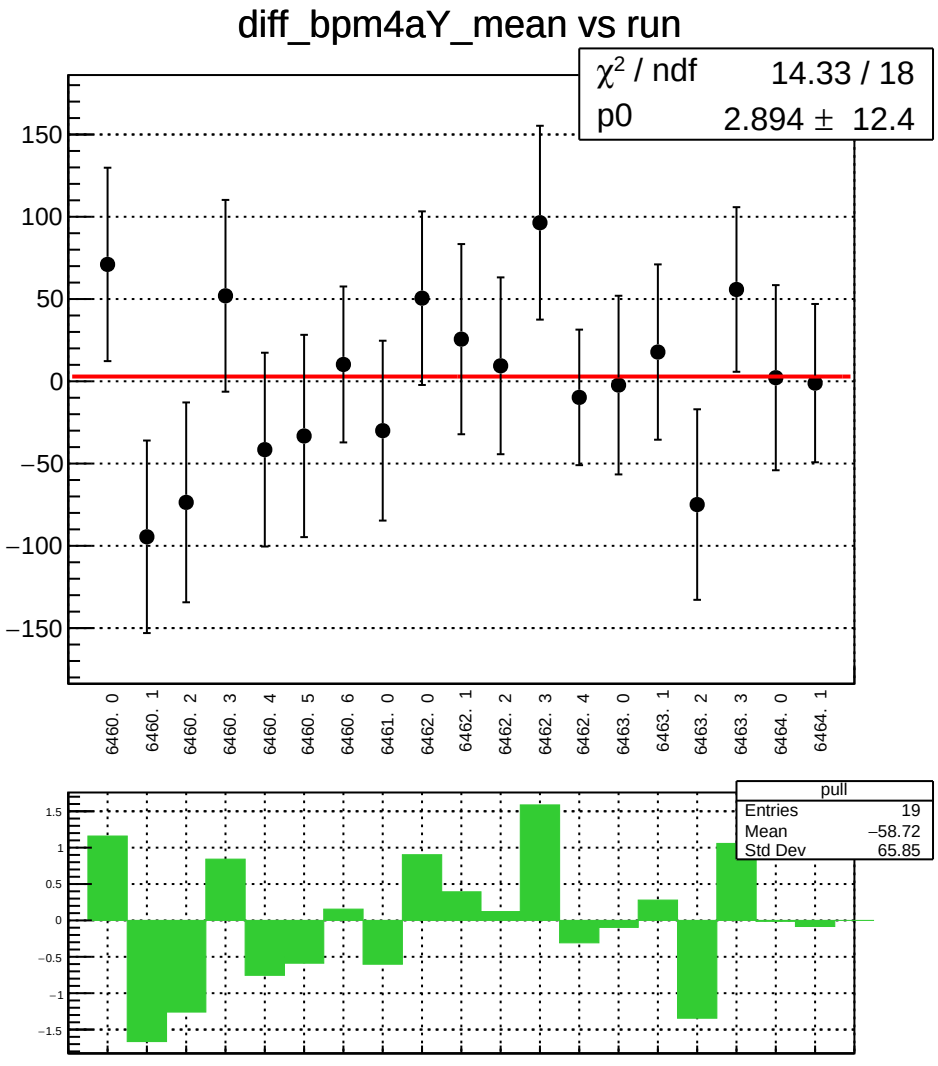

diff_cav4dY_mean vs run
χ² / ndf 13.23 / 18
p0 0.1449 ± 0.6129
8
6
4
2
0
−2
−4
−6
−8
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −19.04
Std Dev 18.99
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 19
Mean −0.008926
Std Dev 0.8344
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

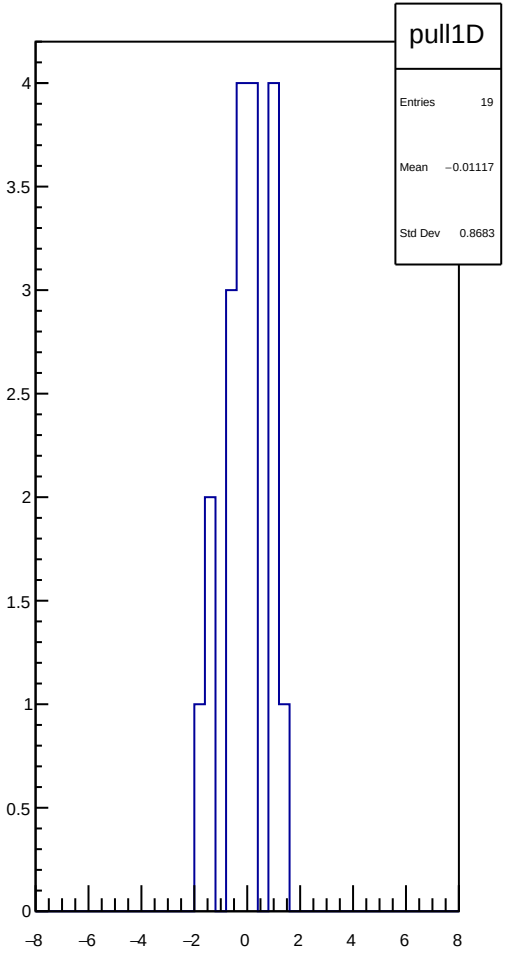

diff_cav4dY_rms vs run
χ² / ndf 928.5 / 18
p0 266.3 ± 0.4334
300
290
280
270
260
250
240
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

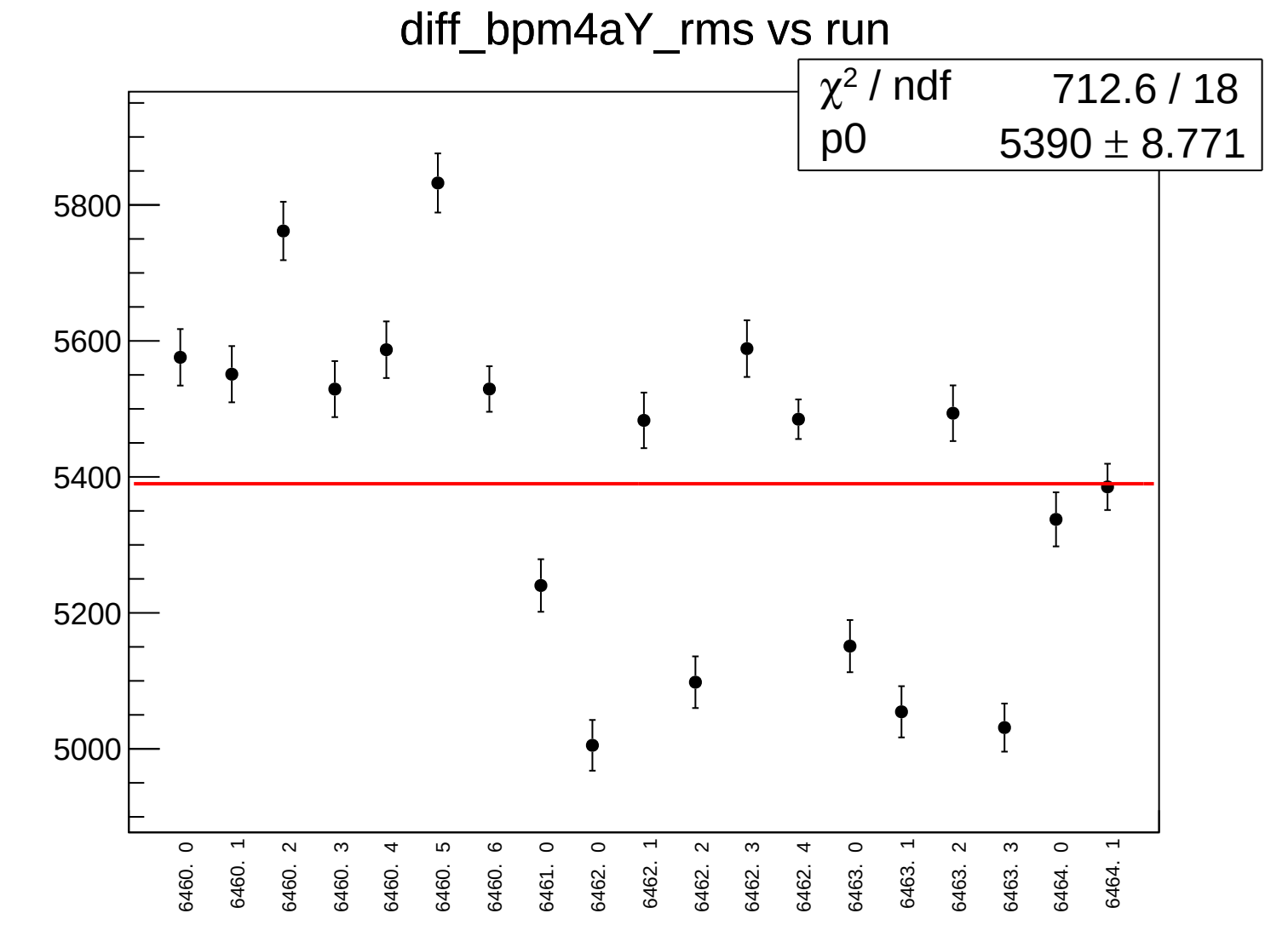

diff_bpm4aX_mean vs run
χ² / ndf 8.047 / 18
p0 −3.985 ± 23.47
200
150
100
50
0
−50
−100
−150
−200
−250
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −62.46
Std Dev 59.66
1
0.5
0
−0.5
−1

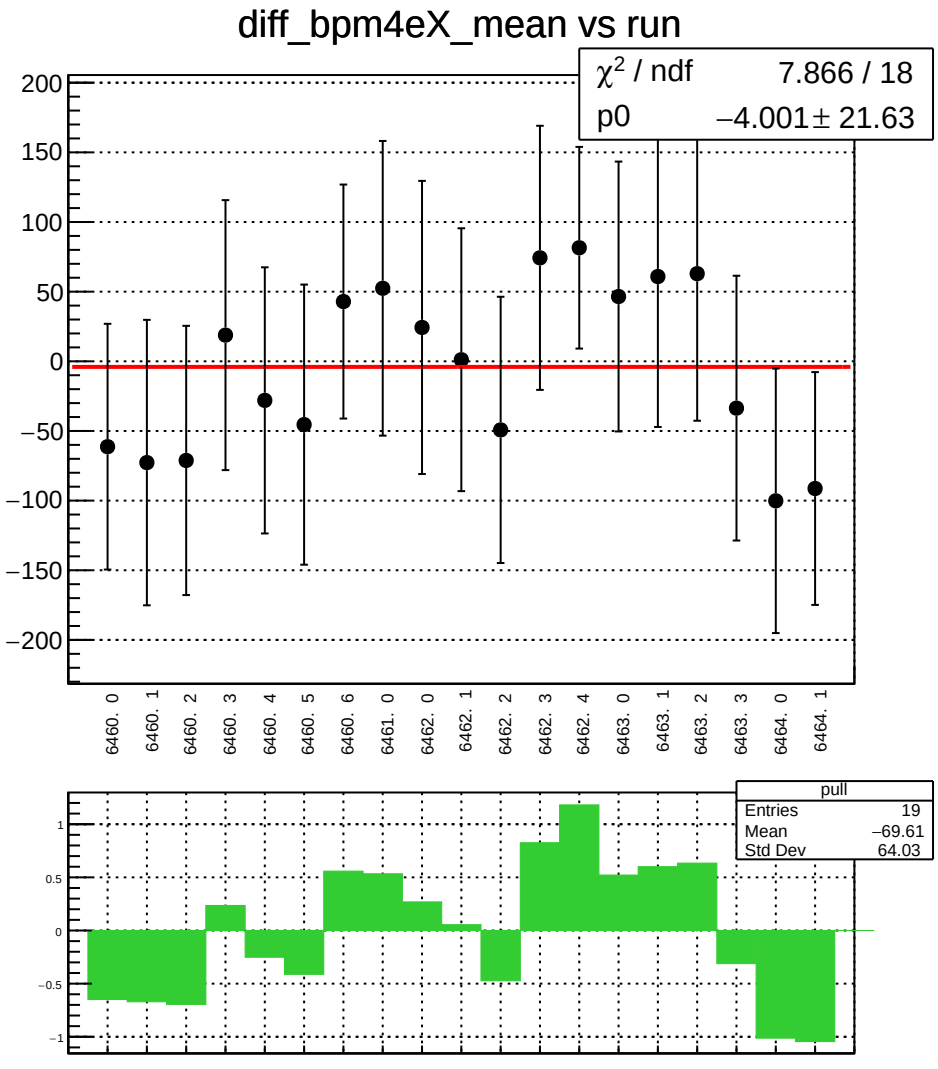

pull1D
Entries 19
Mean −0.007196
Std Dev 0.6507
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

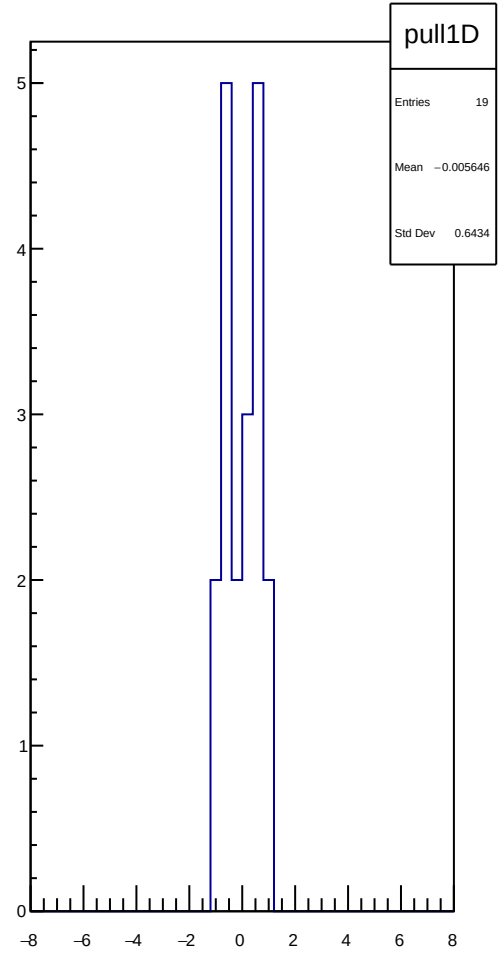

diff_bpm4aX_rms vs run
χ² / ndf 845.5 / 18
p0 1.02e+04 ± 16.59
11000
10500
10000
9500
9000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

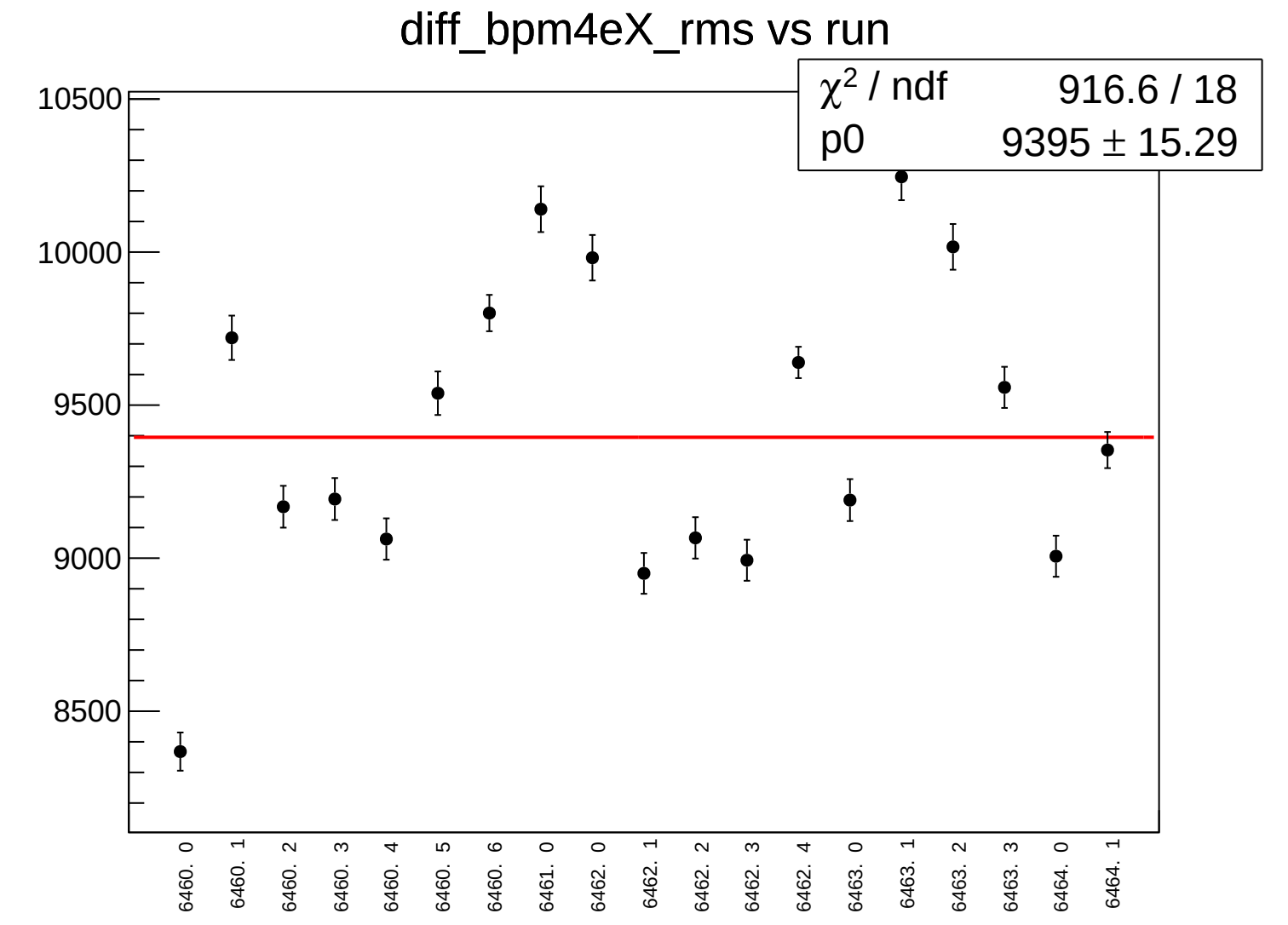

diff_bpm4aY_mean vs run
χ² / ndf 14.33 / 18
p0 2.894 ± 12.4
150
100
50
0
−50
−100
−150
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −58.72
Std Dev 65.85
1.5
1
0.5
0
−0.5
−1
−1.5

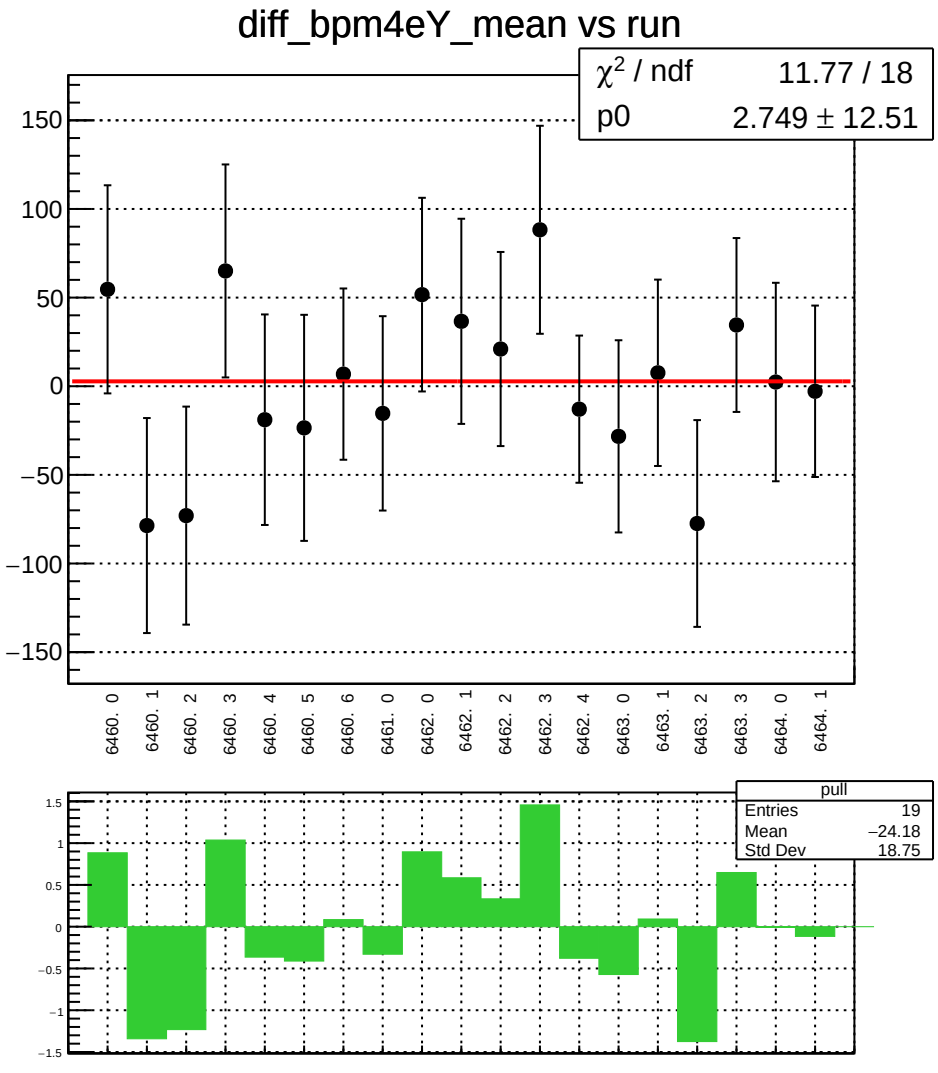

pull1D
Entries 19
Mean −0.01117
Std Dev 0.8683
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

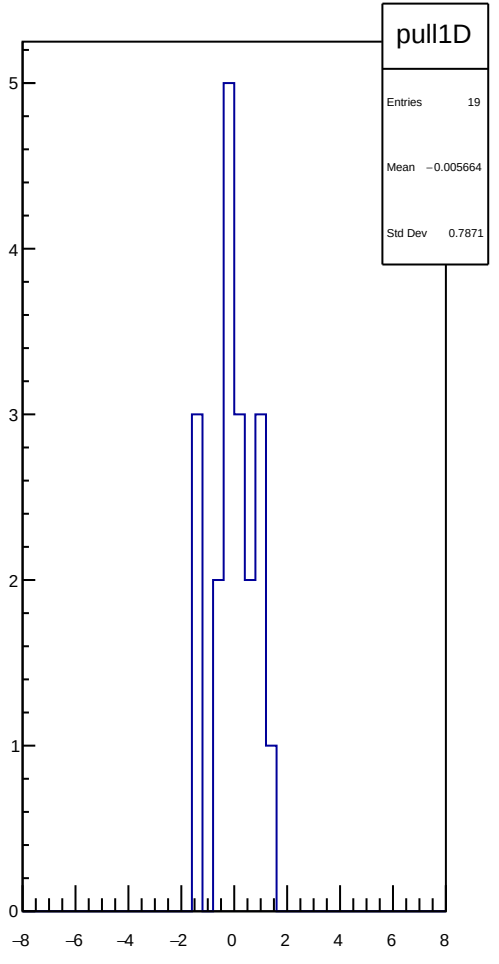

diff_bpm4aY_rms vs run
χ² / ndf 712.6 / 18
p0 5390 ± 8.771
5800
5600
5400
5200
5000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

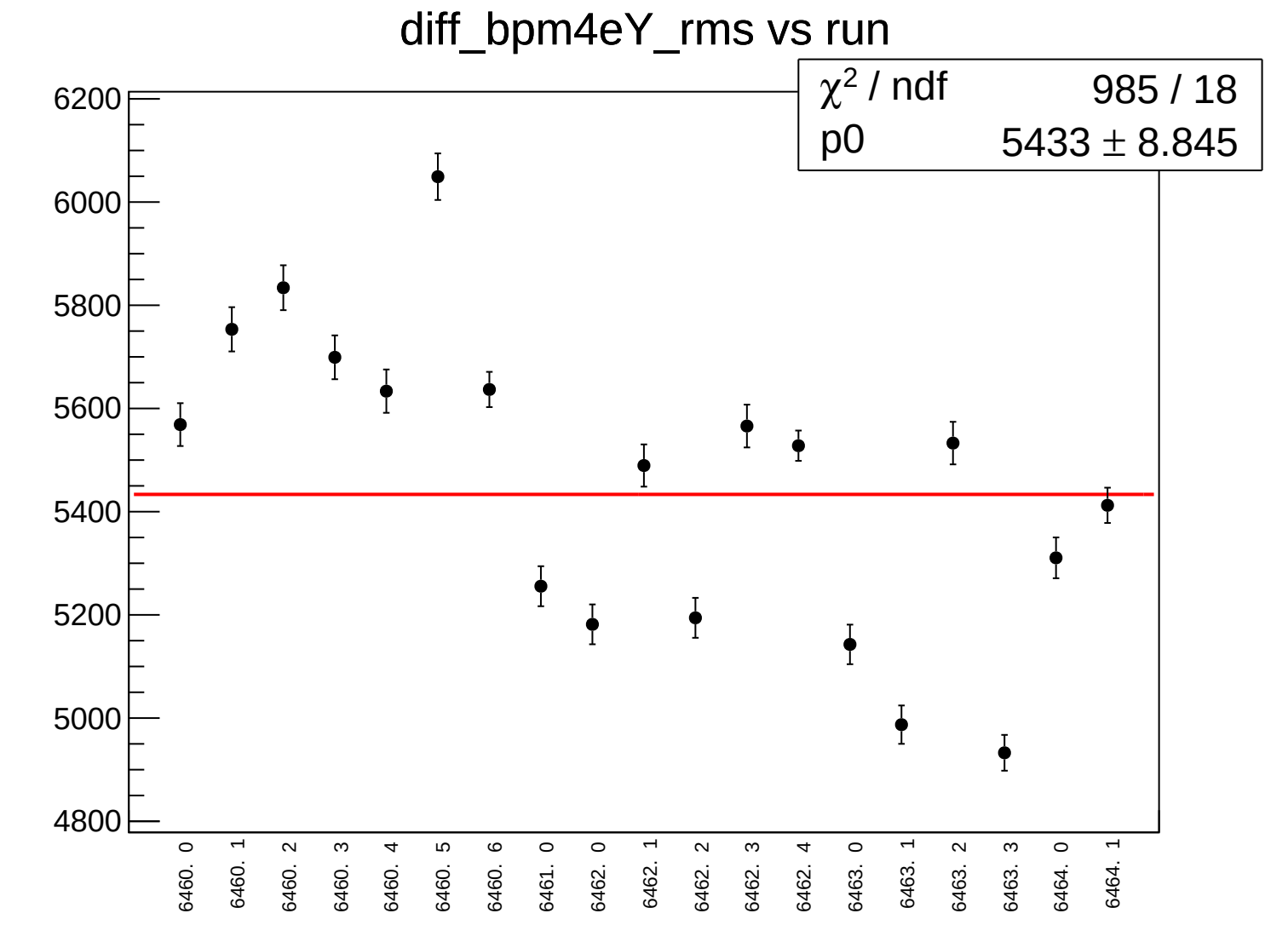

diff_bpm4eX_mean vs run
χ² / ndf 7.866 / 18
p0 −4.001 ± 21.63
200
150
100
50
0
−50
−100
−150
−200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −69.61
Std Dev 64.03
1
0.5
0
−0.5
−1

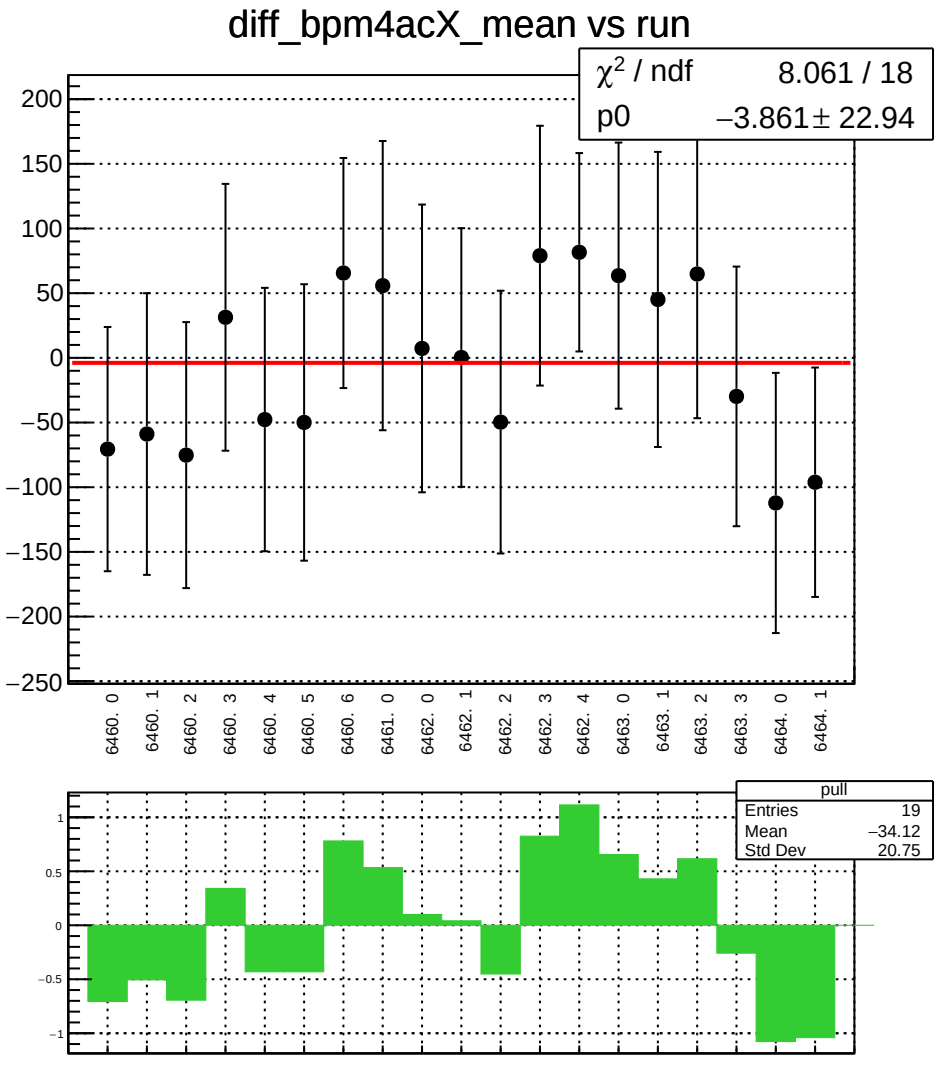

pull1D
Entries 19
Mean −0.005646
Std Dev 0.6434
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

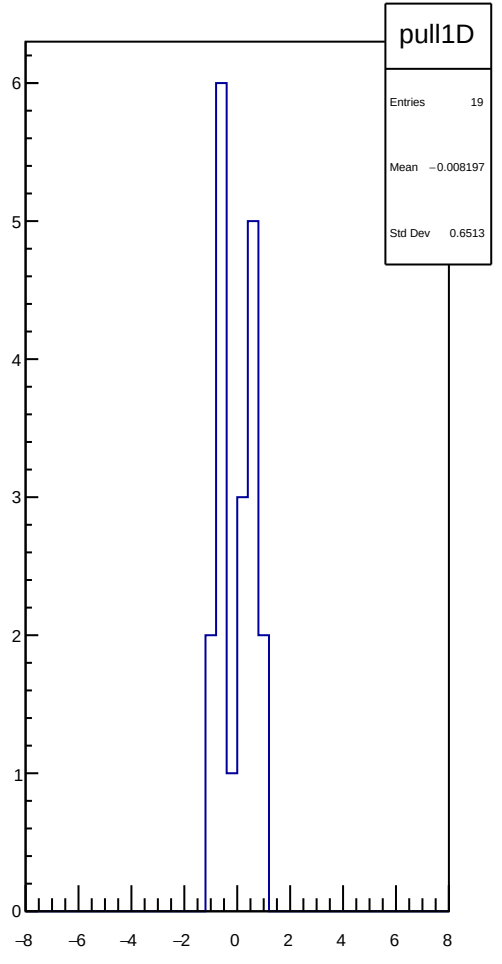

diff_bpm4eX_rms vs run
χ² / ndf 916.6 / 18
p0 9395 ± 15.29
10500
10000
9500
9000
8500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

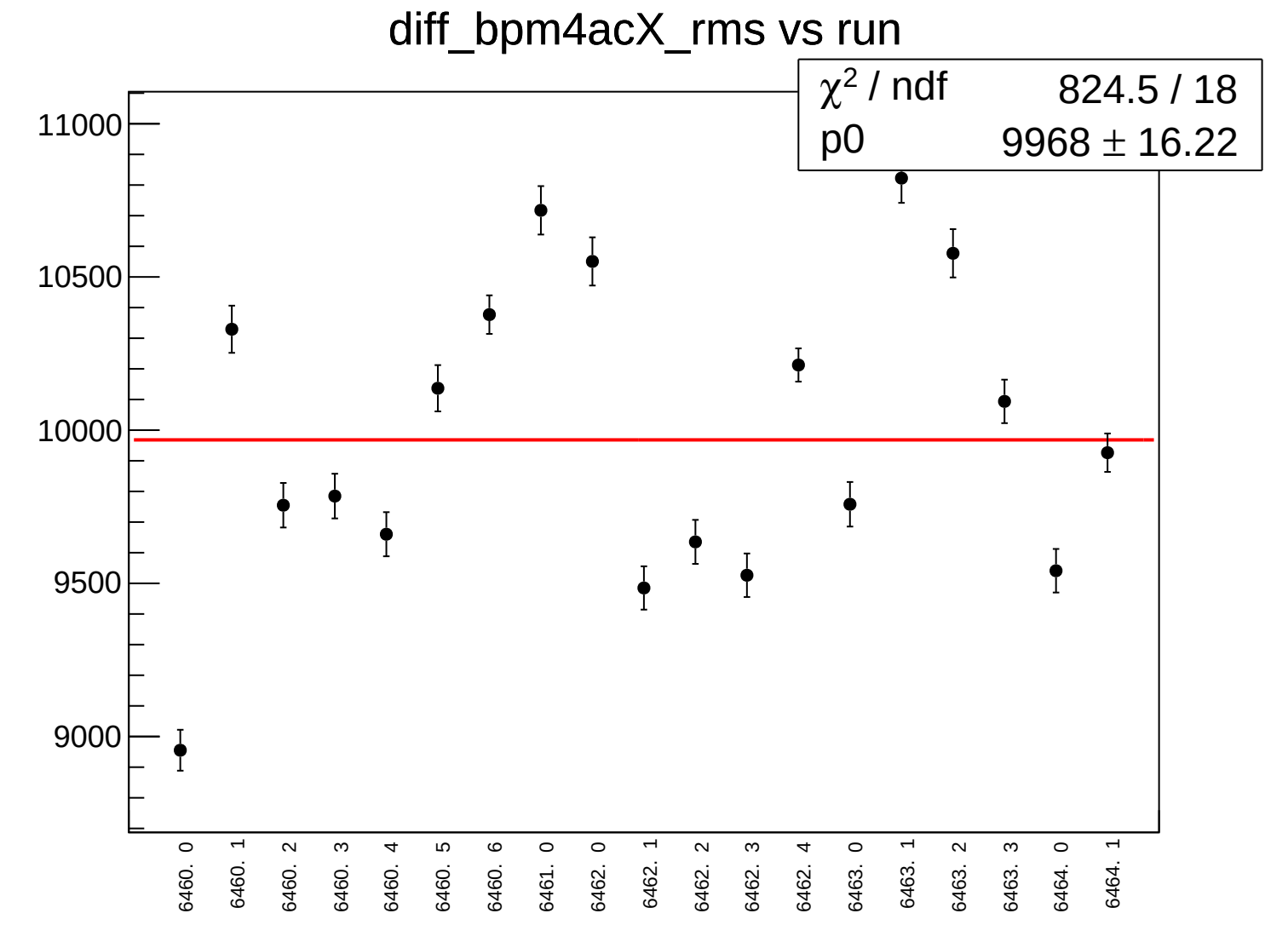

diff_bpm4eY_mean vs run
χ² / ndf 11.77 / 18
p0 2.749 ± 12.51
150
100
50
0
−50
−100
−150
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −24.18
Std Dev 18.75
1.5
1
0.5
0
−0.5
−1
−1.5

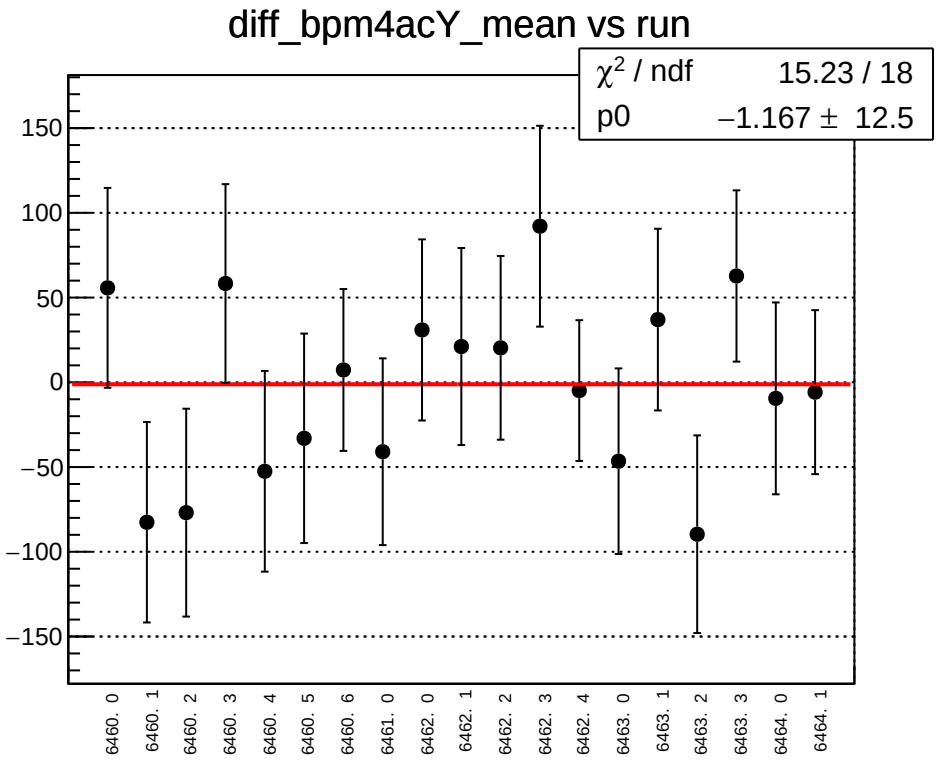

pull1D
Entries 19
Mean −0.005664
Std Dev 0.7871
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

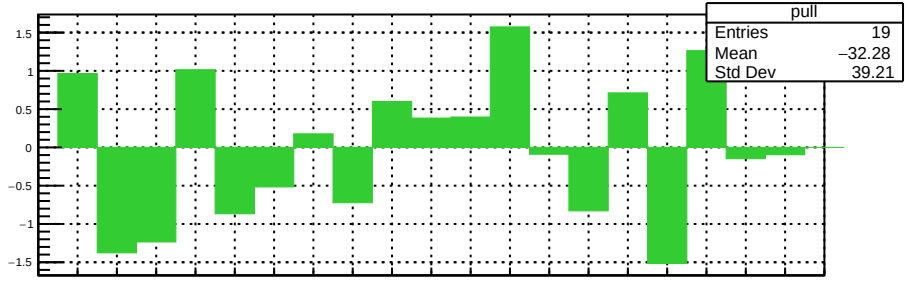

diff_bpm4eY_rms vs run
χ² / ndf 985 / 18
p0 5433 ± 8.845
6200
6000
5800
5600
5400
5200
5000
4800
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

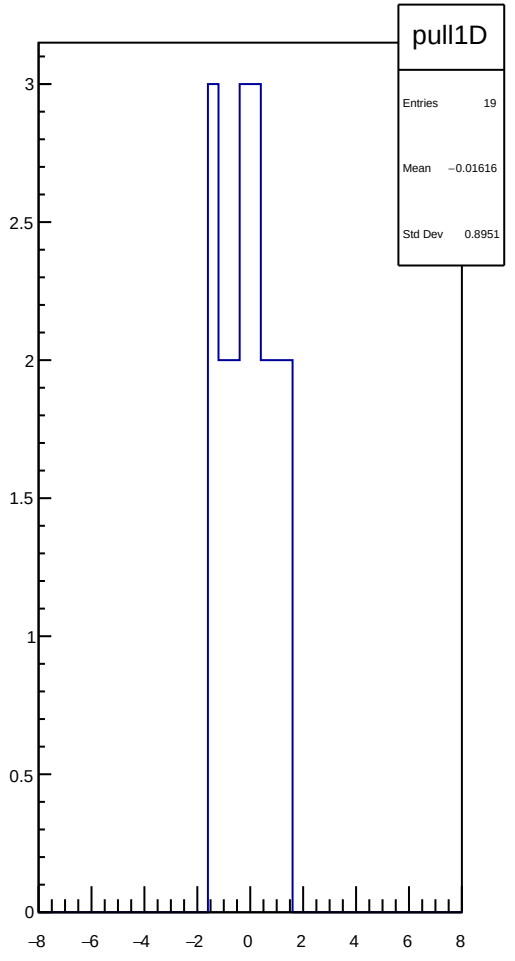

diff_bpm4acX_mean vs run
χ² / ndf 8.061 / 18
p0 −3.861± 22.94
200
150
100
50
0
−50
−100
−150
−200
−250
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −34.12
Std Dev 20.75
1
0.5
0
−0.5
−1

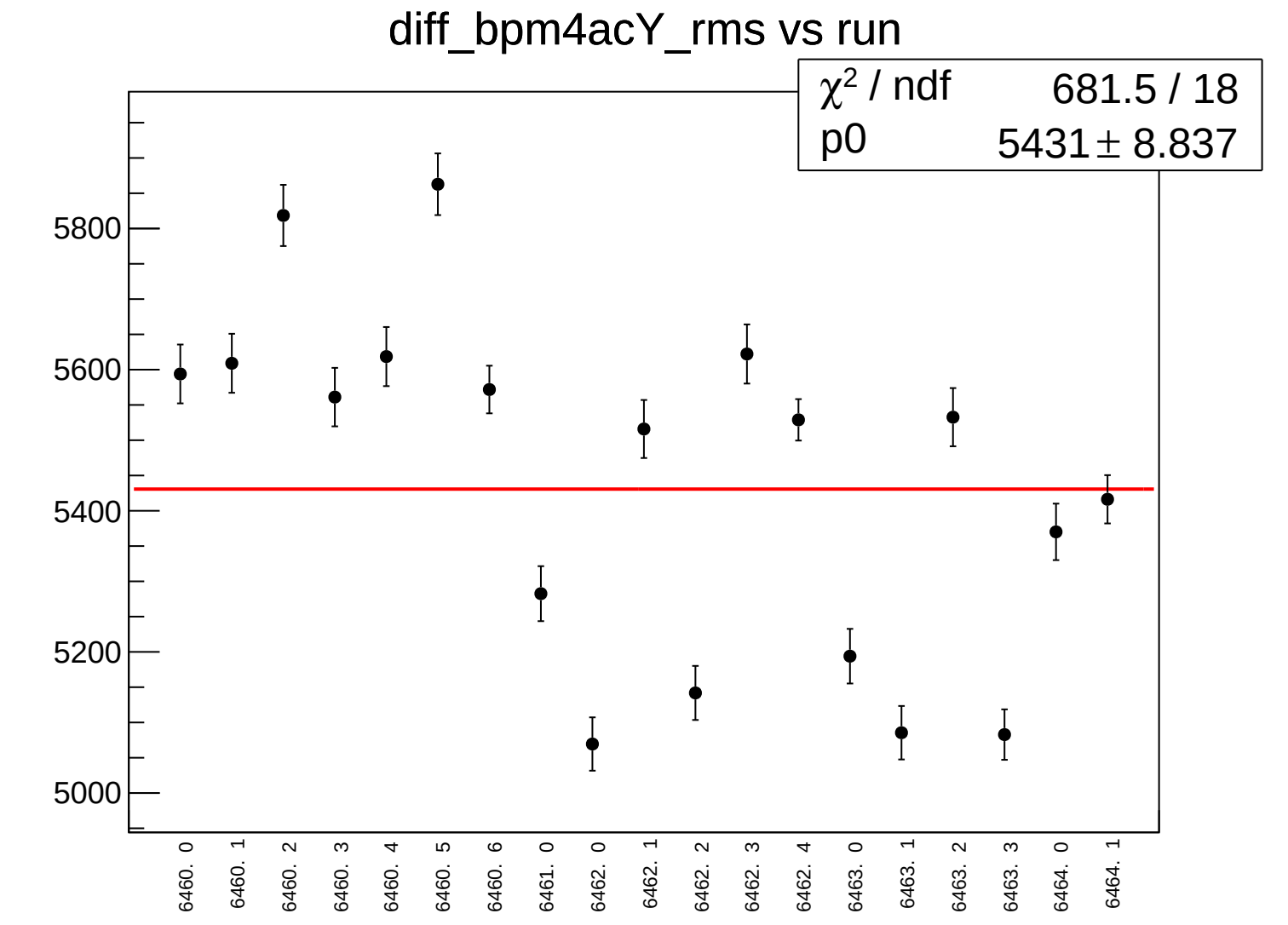

pull1D
Entries 19
Mean −0.008197
Std Dev 0.6513
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

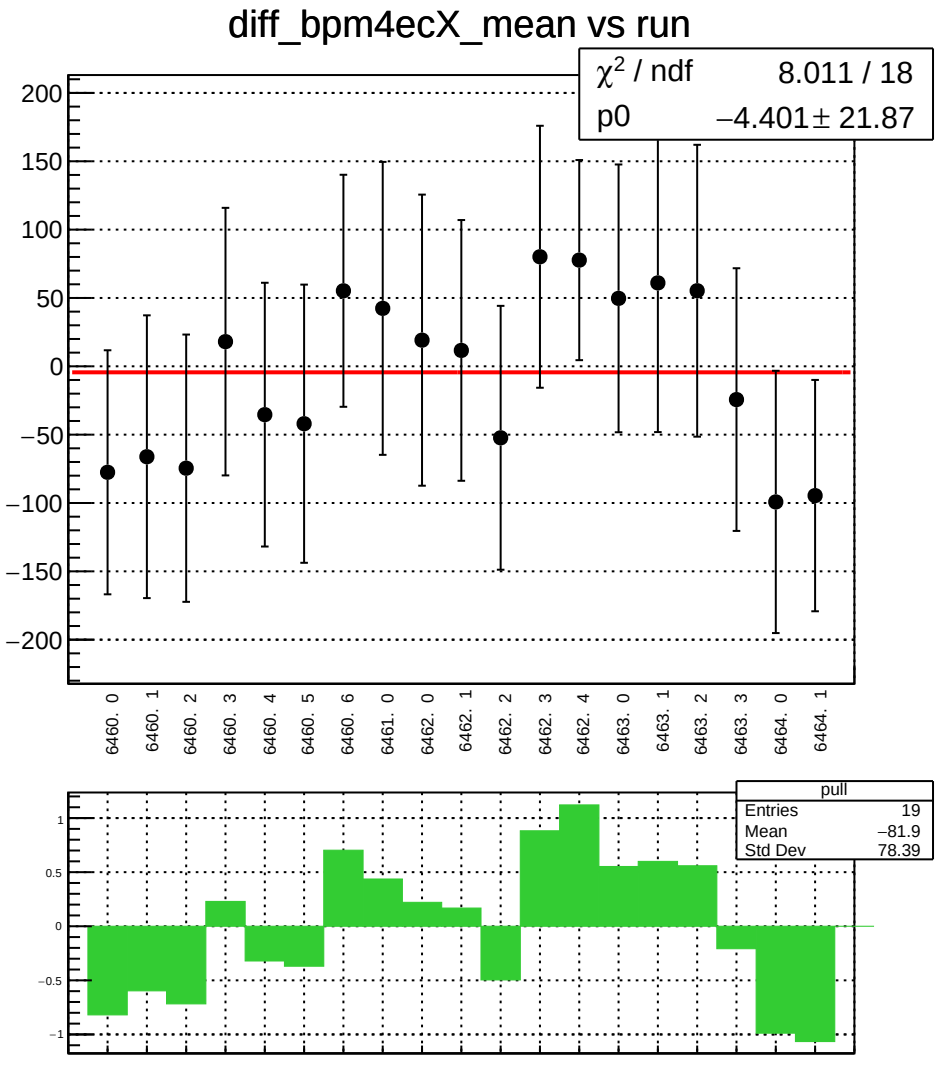

diff_bpm4acX_rms vs run
χ² / ndf 824.5 / 18
p0 9968 ± 16.22
11000
10500
10000
9500
9000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

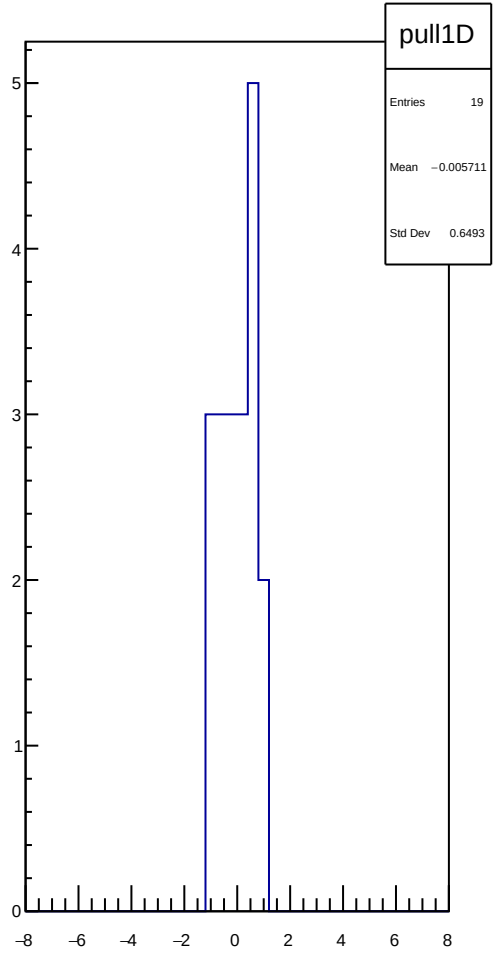

diff_bpm4acY_mean vs run
χ² / ndf 15.23 / 18
p0 −1.167 ± 12.5
150
100
50
0
−50
−100
−150
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

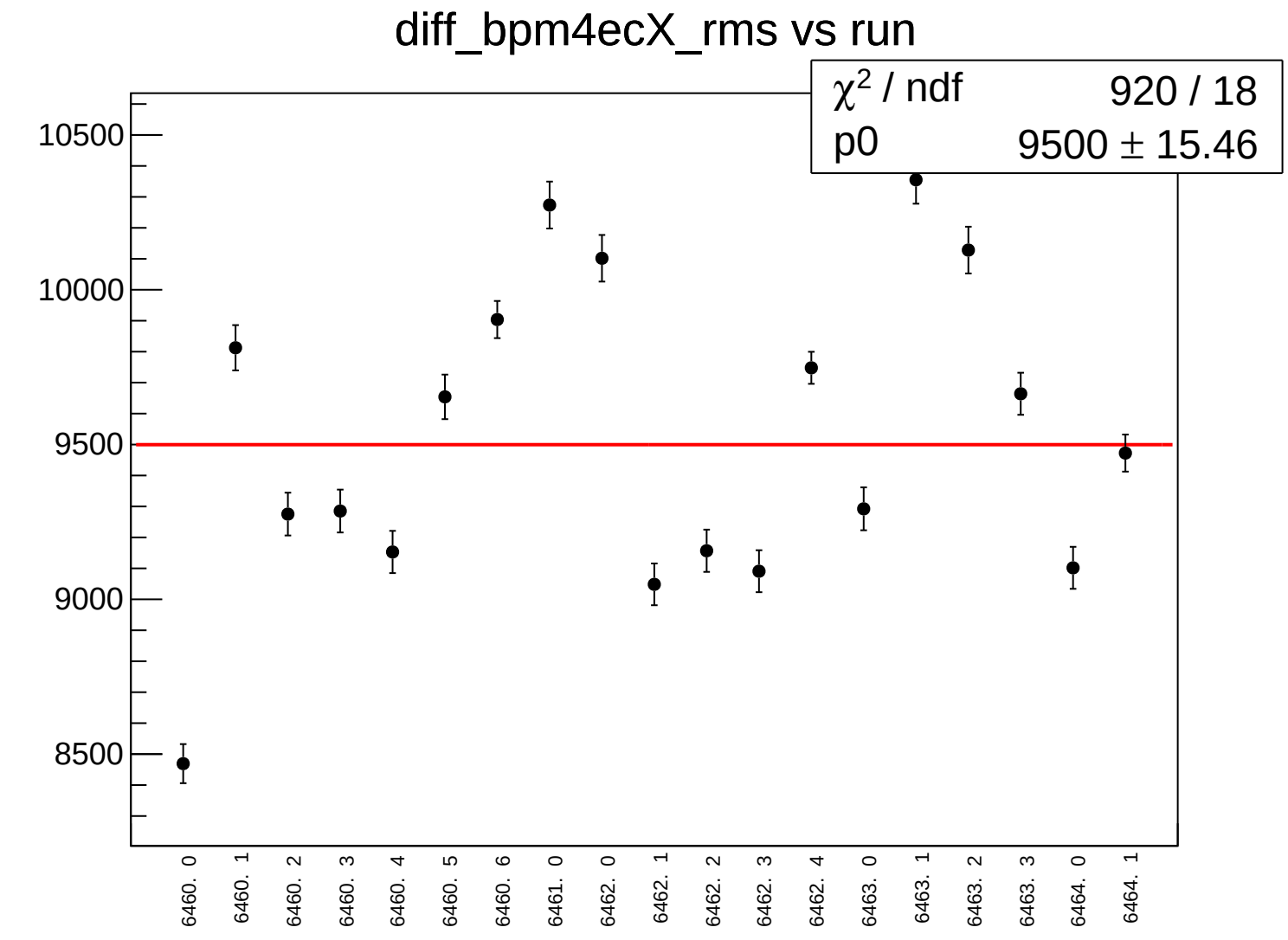

pull
Entries 19
Mean −32.28
Std Dev 39.21
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 19
Mean −0.01616
Std Dev 0.8951
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


diff_bpm4acY_rms vs run
χ² / ndf 681.5 / 18
p0 5431 ± 8.837
5800
5600
5400
5200
5000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1


diff_bpm4ecX_mean vs run
χ² / ndf 8.011 / 18
p0 −4.401 ± 21.87
200
150
100
50
0
−50
−100
−150
−200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −81.9
Std Dev 78.39
1
0.5
0
−0.5
−1


pull1D
Entries 19
Mean −0.005711
Std Dev 0.6493
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


diff_bpm4ecX_rms vs run
χ² / ndf 920 / 18
p0 9500 ± 15.46
10500
10000
9500
9000
8500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
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6463. 2
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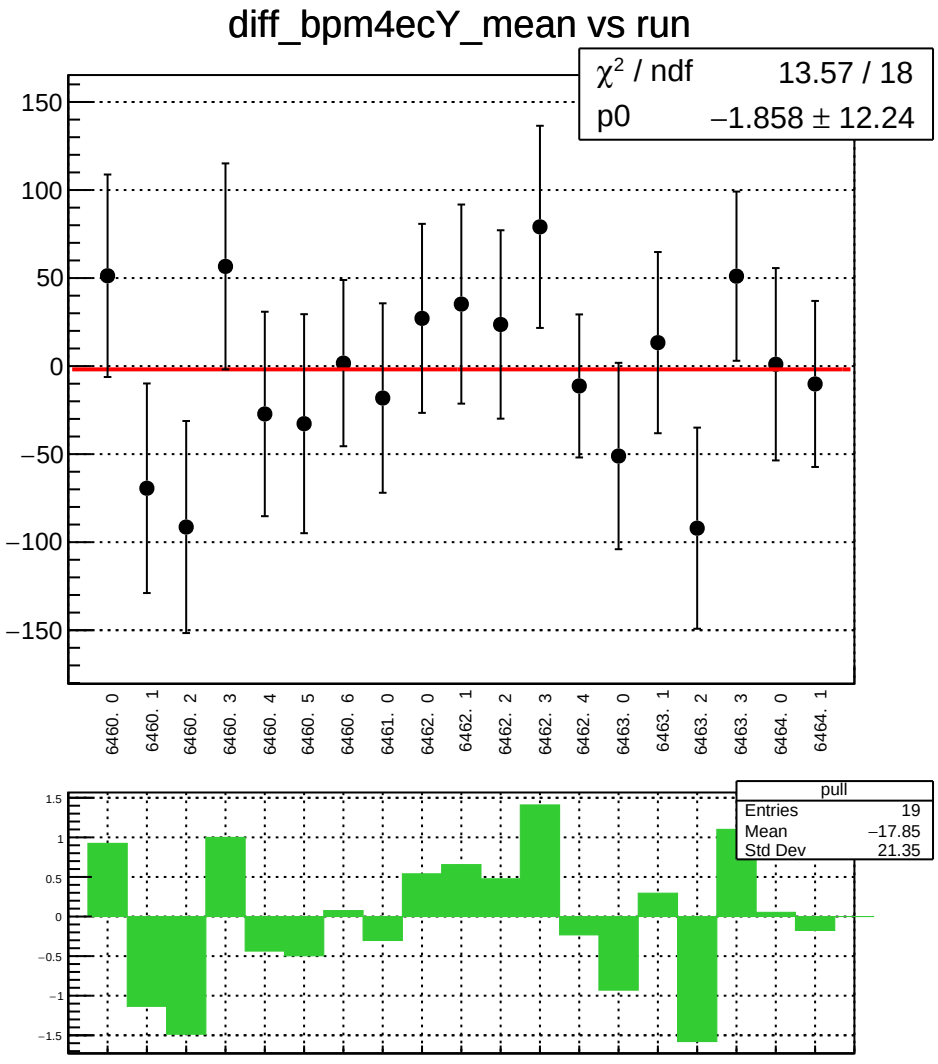
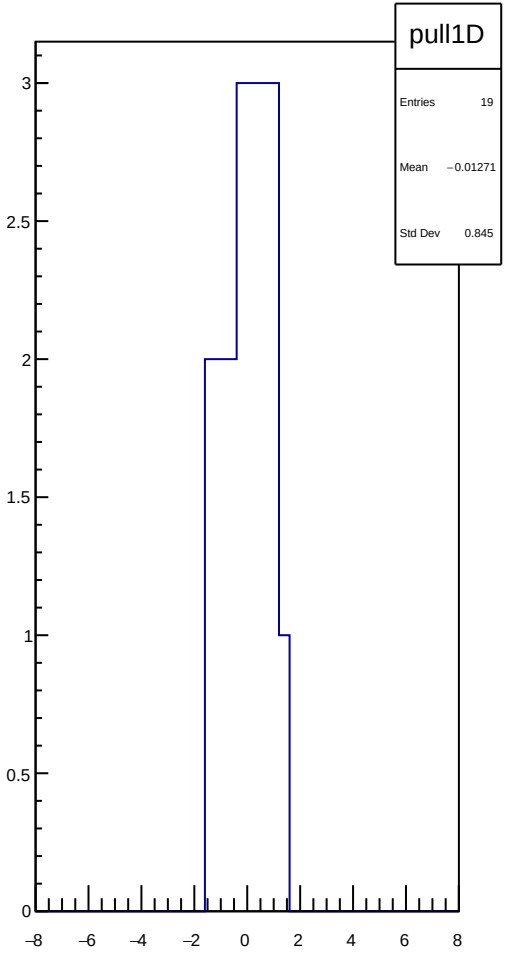
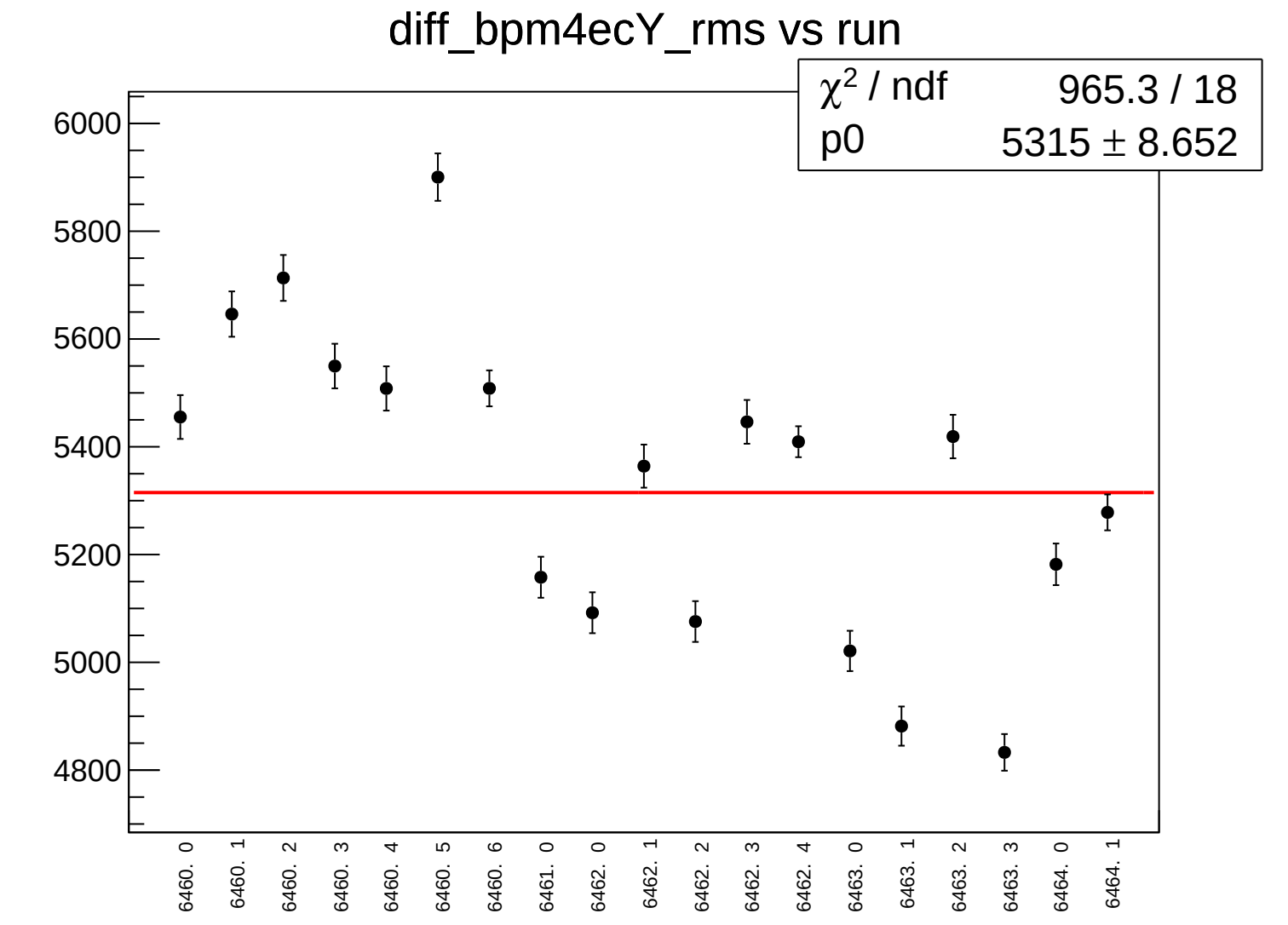
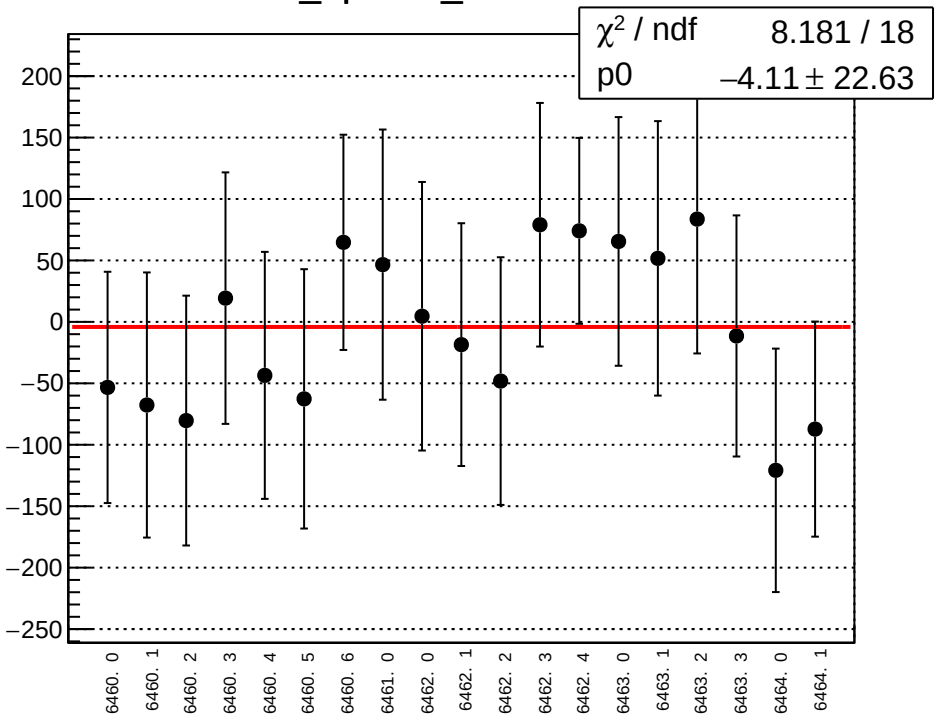
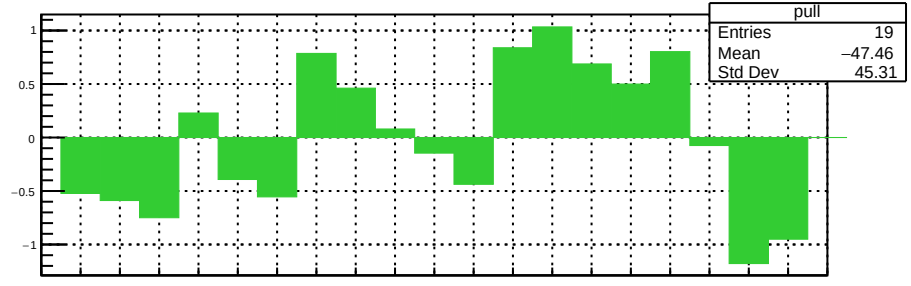
6464. 0
6464. 1

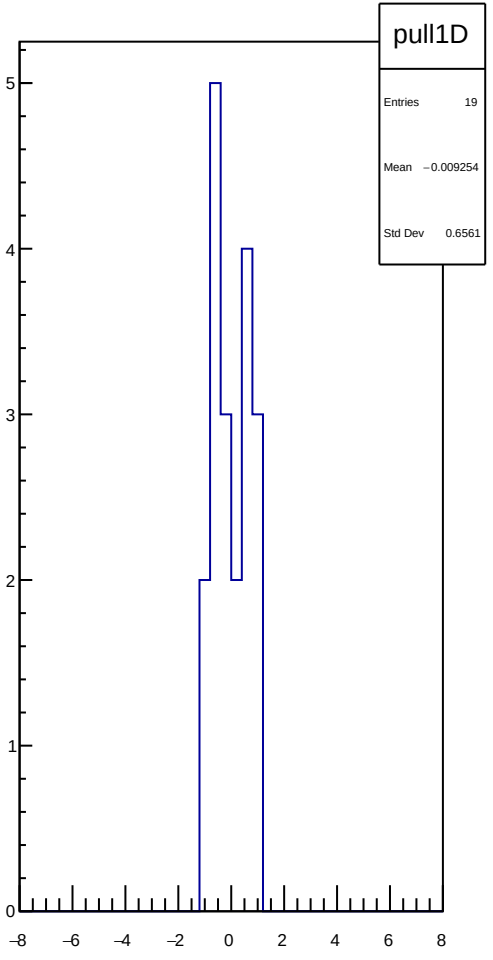

diff_bpm4ecY_mean vs run
χ² / ndf 13.57 / 18
p0 −1.858 ± 12.24
150
100
50
0
−50
−100
−150
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −17.85
Std Dev 21.35
1.5
1
0.5
0
−0.5
−1
−1.5

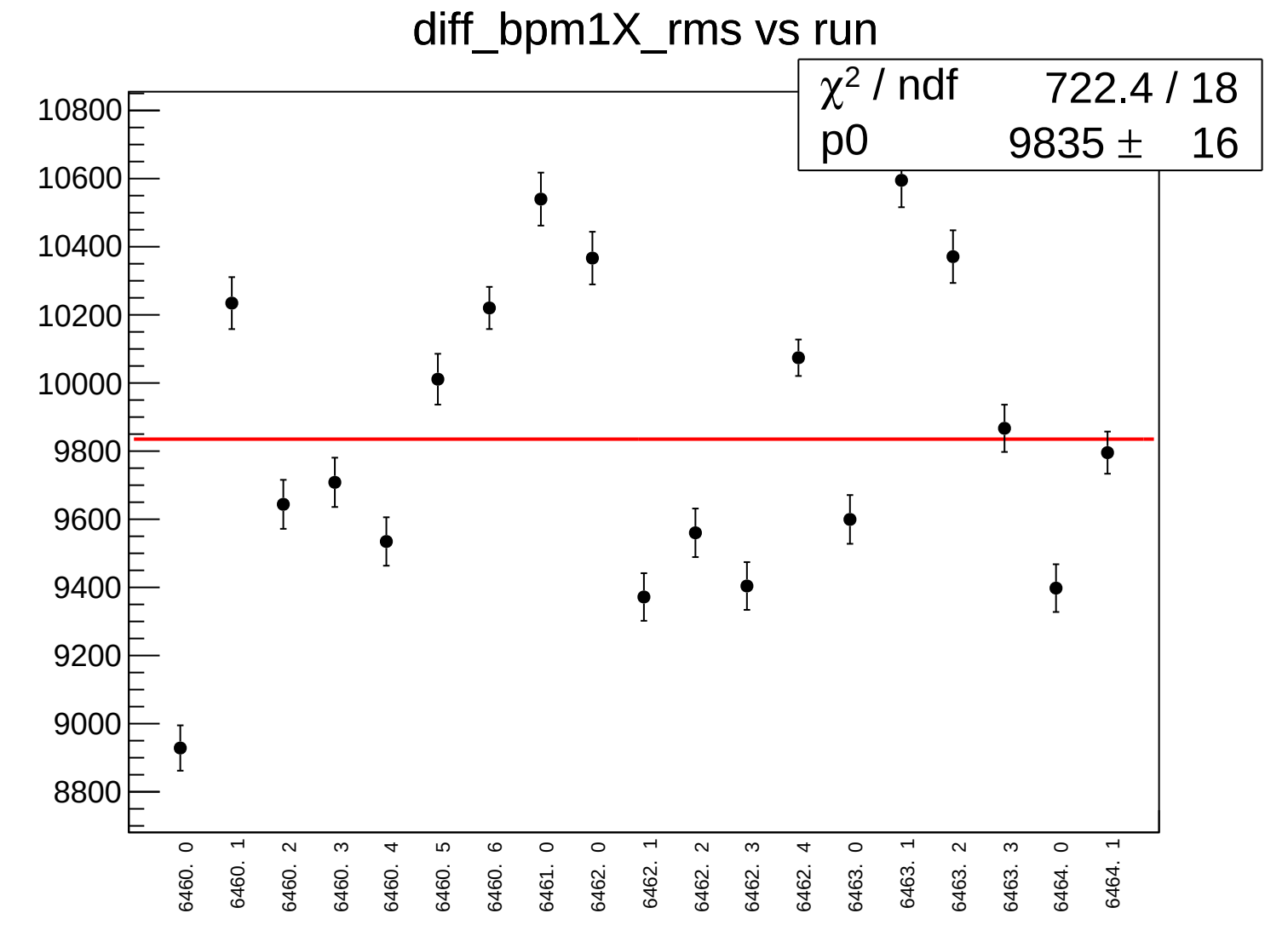

pull1D
Entries 19
Mean −0.01271
Std Dev 0.845
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

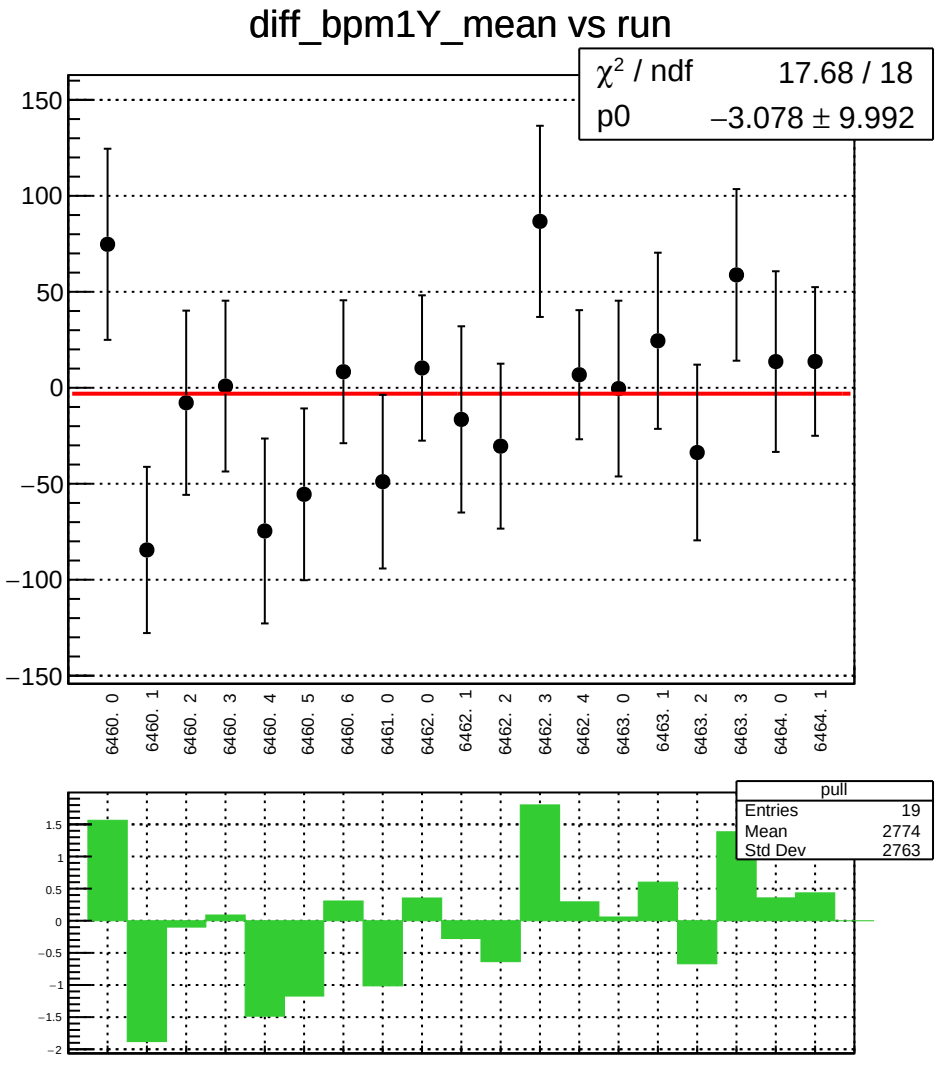

diff_bpm4ecY_rms vs run
χ² / ndf 965.3 / 18
p0 5315 ± 8.652
6000
5800
5600
5400
5200
5000
4800
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

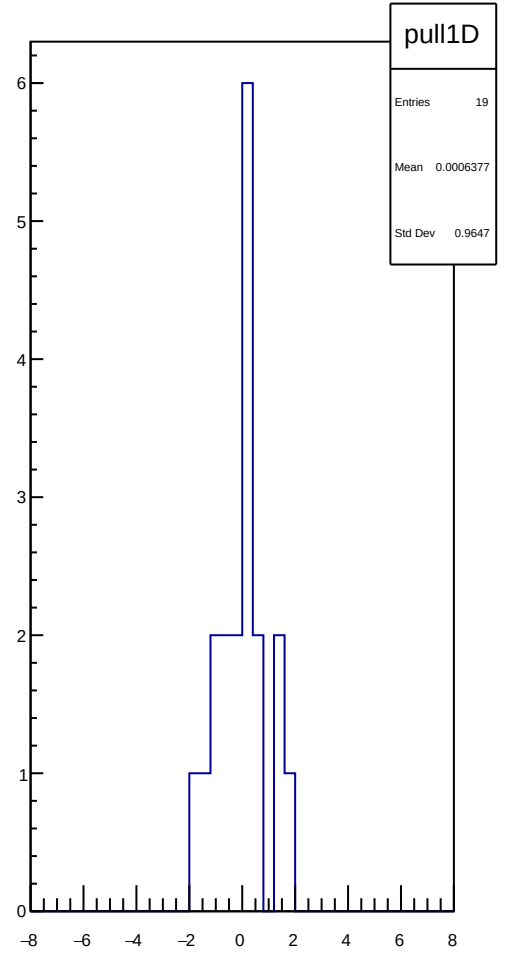

diff_bpm1X_mean vs run
χ² / ndf 8.181 / 18
p0 −4.11 ± 22.63
200
150
100
50
0
−50
−100
−150
−200
−250
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

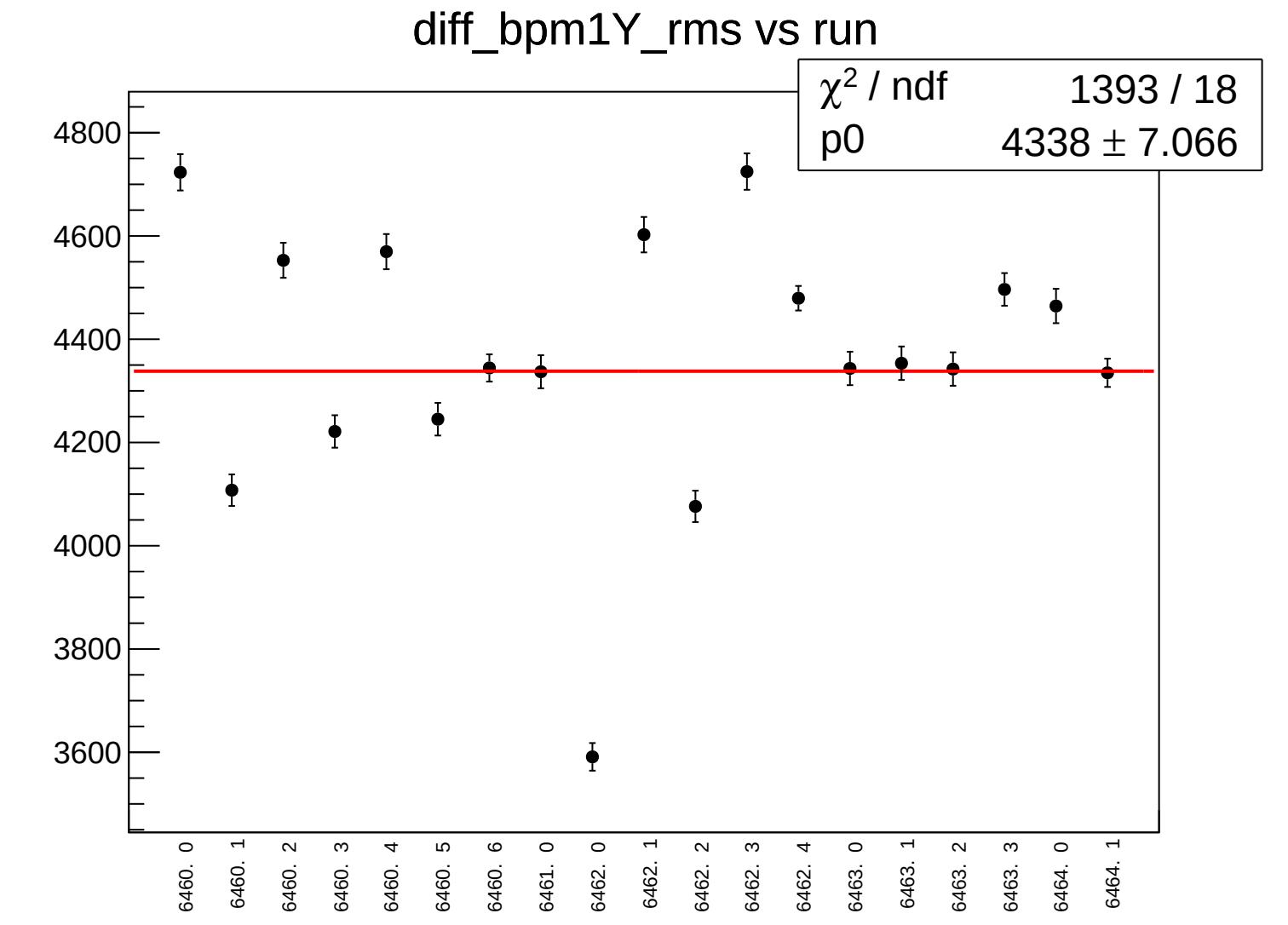

pull
Entries 19
Mean −47.46
Std Dev 45.31
1
0.5
0
−0.5
−1

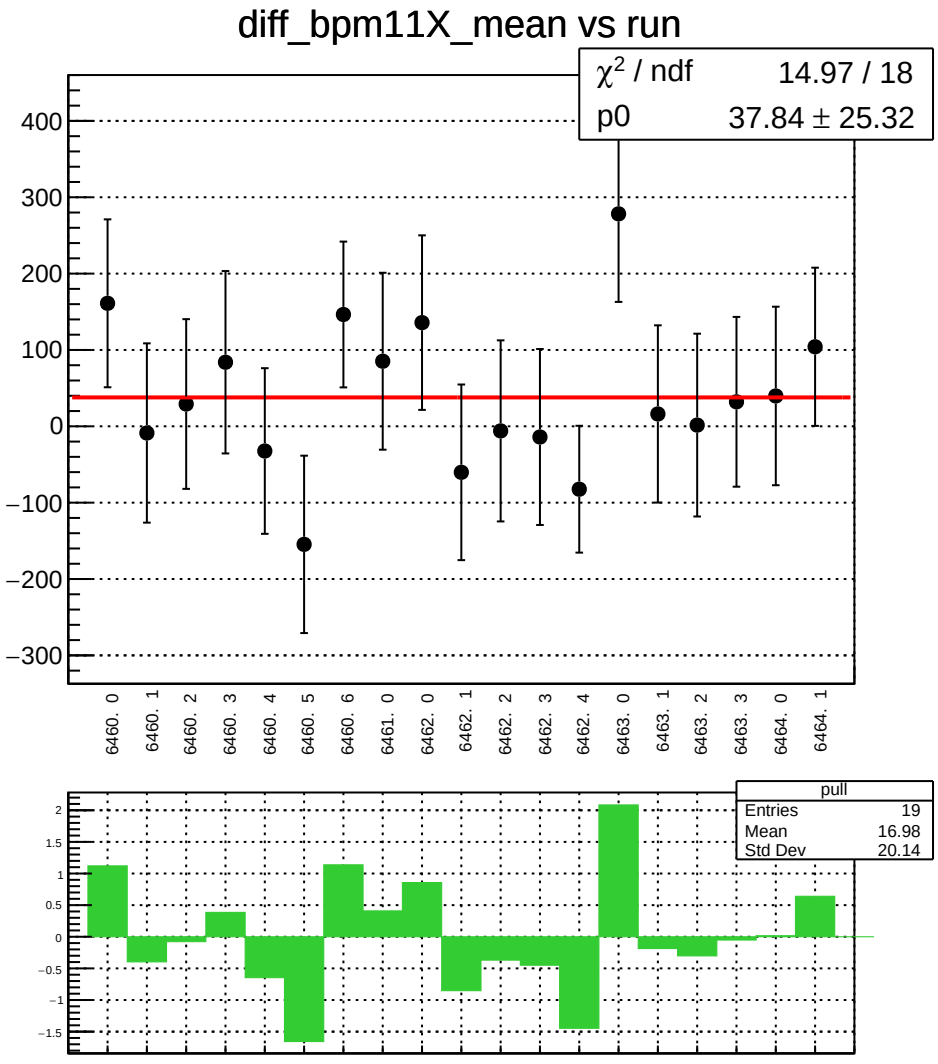

pull1D
Entries 19
Mean −0.009254
Std Dev 0.6561
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

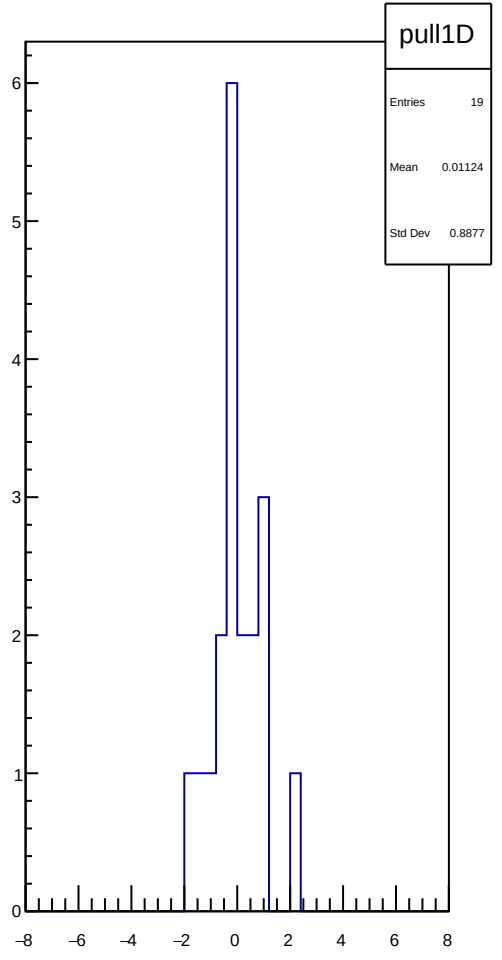

diff_bpm1X_rms vs run
χ² / ndf 722.4 / 18
p0 9835 ± 16
10800
10600
10400
10200
10000
9800
9600
9400
9200
9000
8800
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

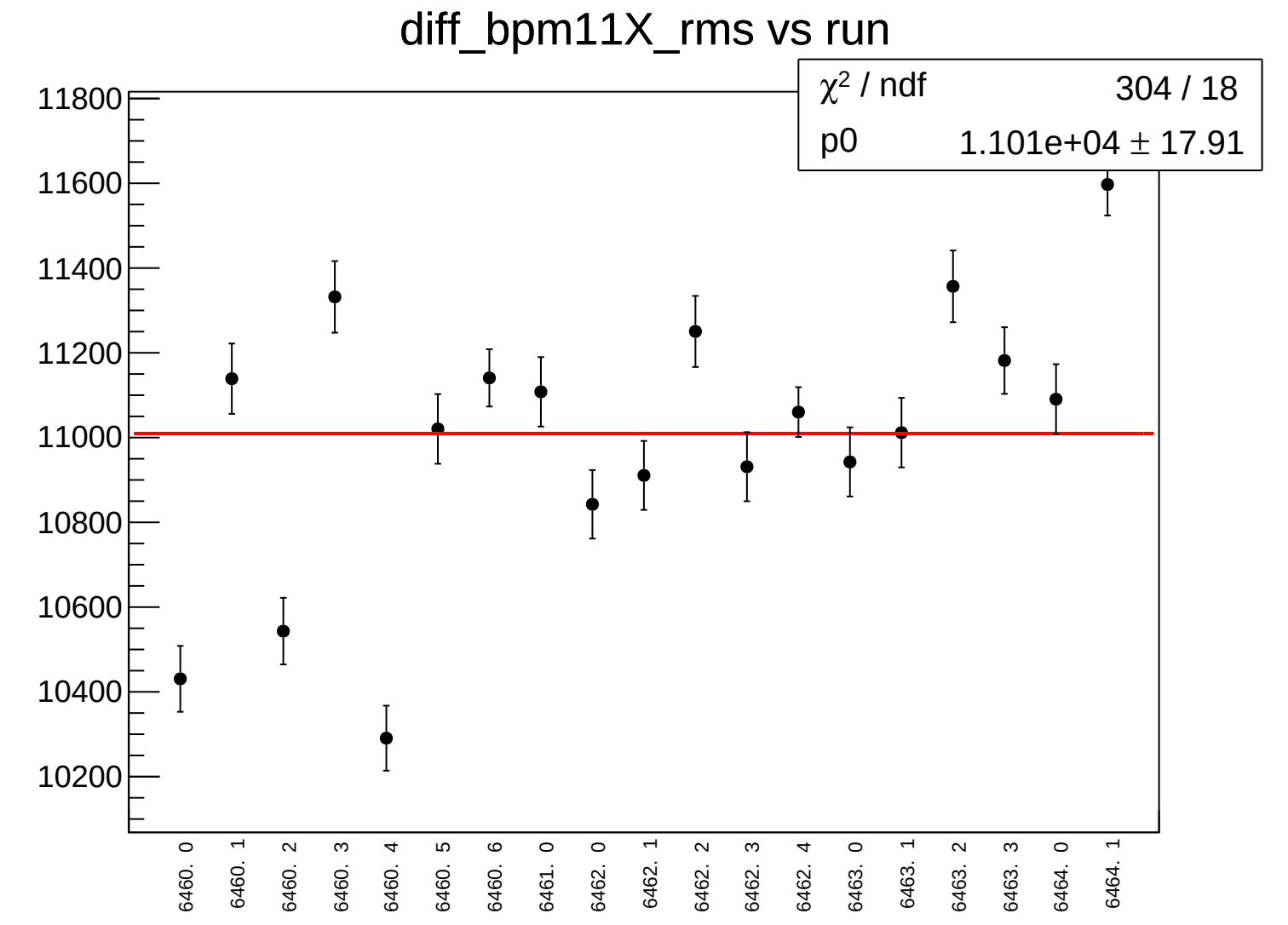

diff_bpm1Y_mean vs run
χ² / ndf 17.68 / 18
p0 −3.078 ± 9.992
150
100
50
0
−50
−100
−150
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 2774
Std Dev 2763
1.5
1
0.5
0
−0.5
−1
−1.5
−2

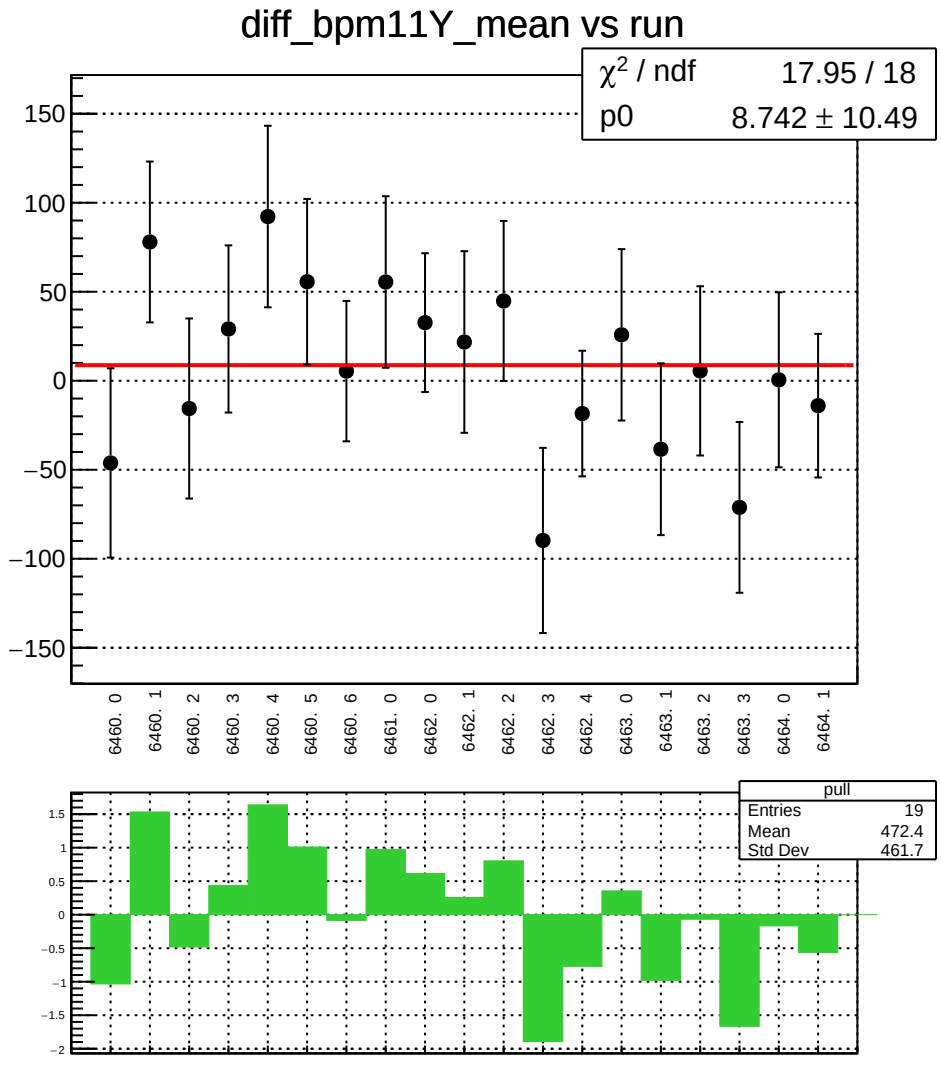

pull1D
Entries 19
Mean 0.0006377
Std Dev 0.9647
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

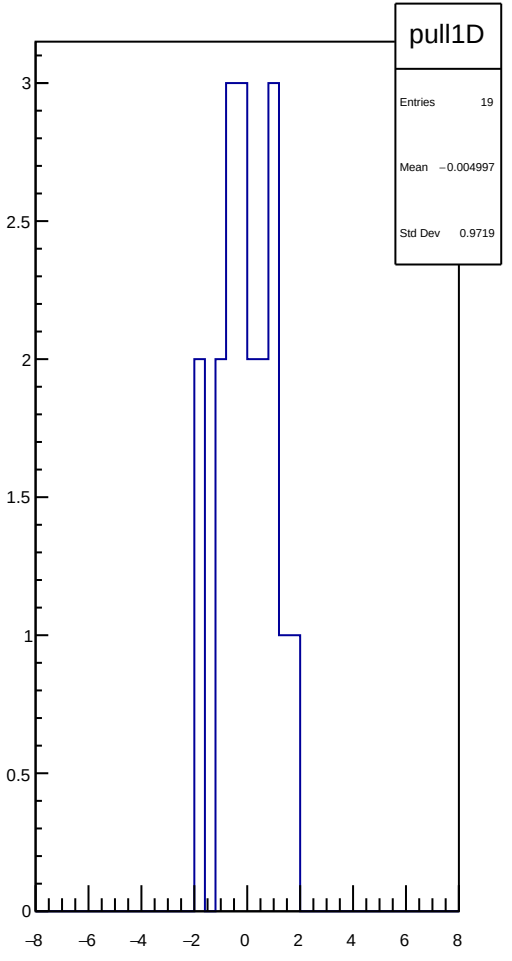

diff_bpm1Y_rms vs run
χ² / ndf 1393 / 18
p0 4338 ± 7.066
4800
4600
4400
4200
4000
3800
3600
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

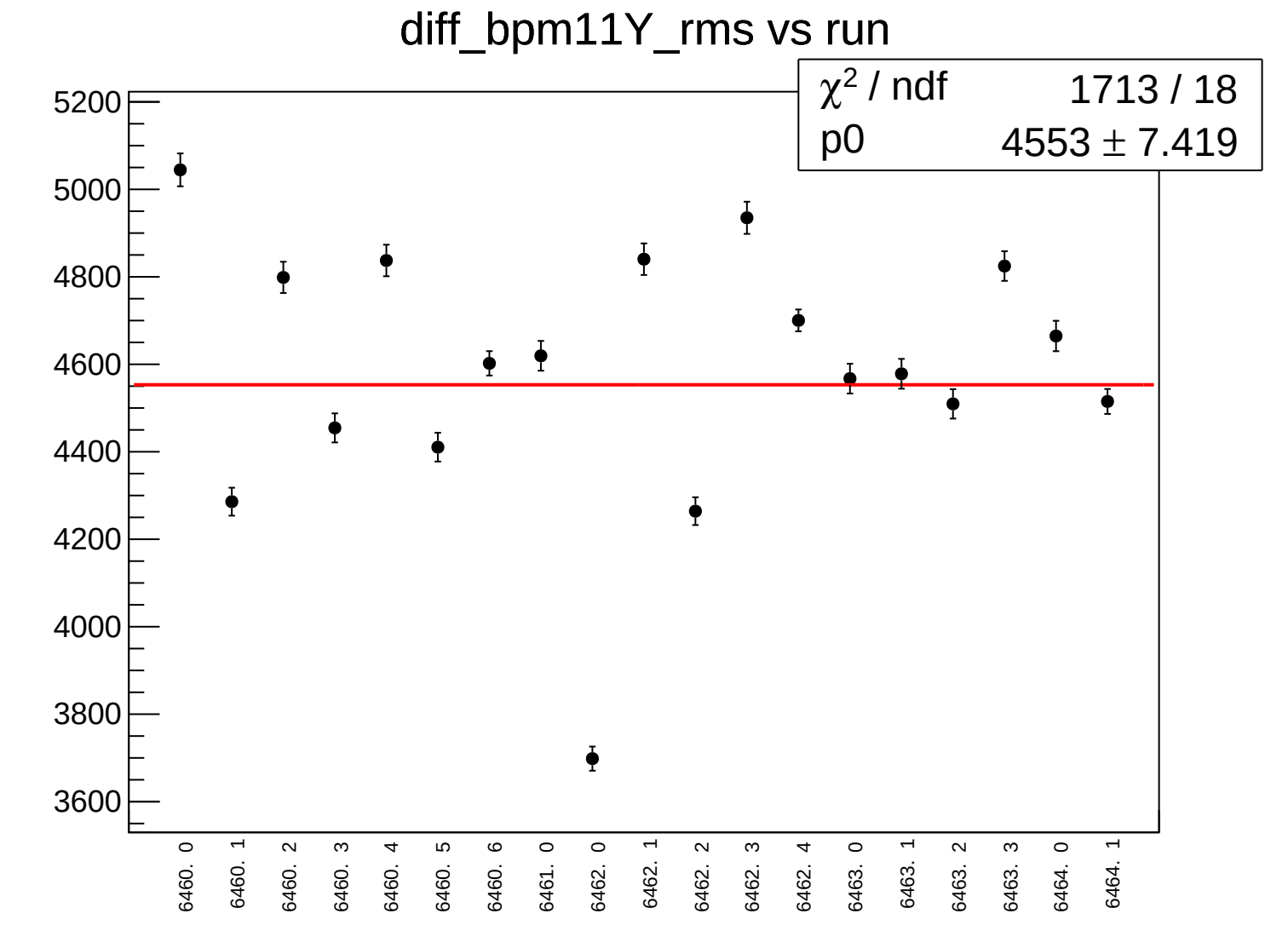

diff_bpm11X_mean vs run
χ² / ndf 14.97 / 18
p0 37.84 ± 25.32
400
300
200
100
0
−100
−200
−300
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 16.98
Std Dev 20.14
2
1.5
1
0.5
0
−0.5
−1
−1.5

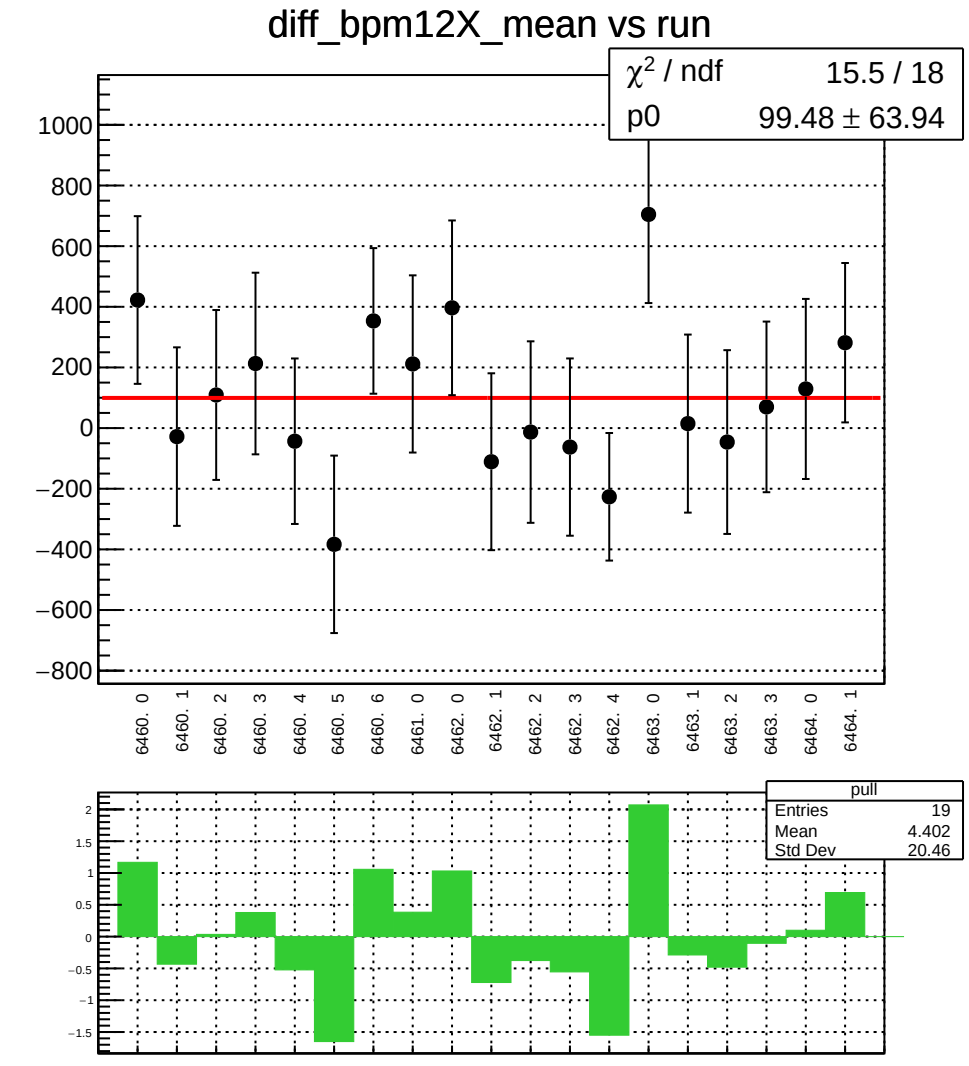

pull1D
Entries 19
Mean 0.01124
Std Dev 0.8877
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

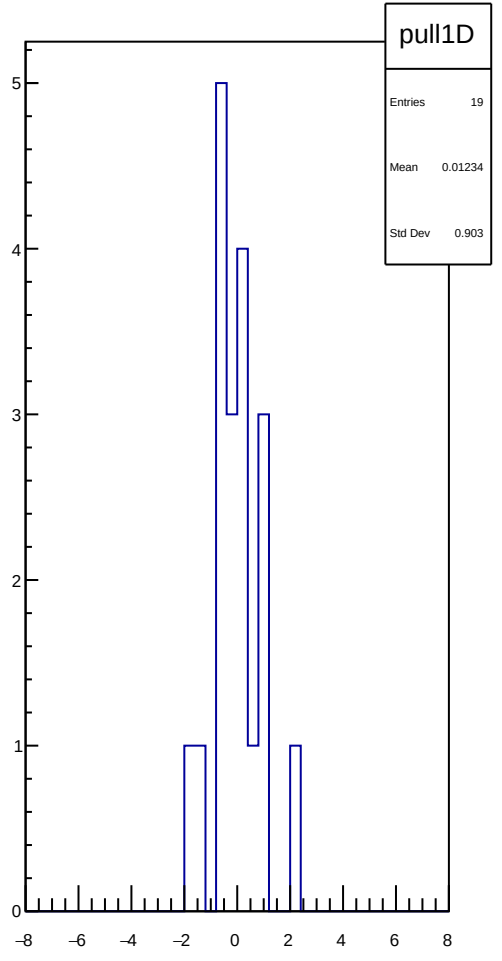

diff_bpm11X_rms vs run
χ² / ndf 304 / 18
p0 1.101e+04 ± 17.91
11800
11600
11400
11200
11000
10800
10600
10400
10200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

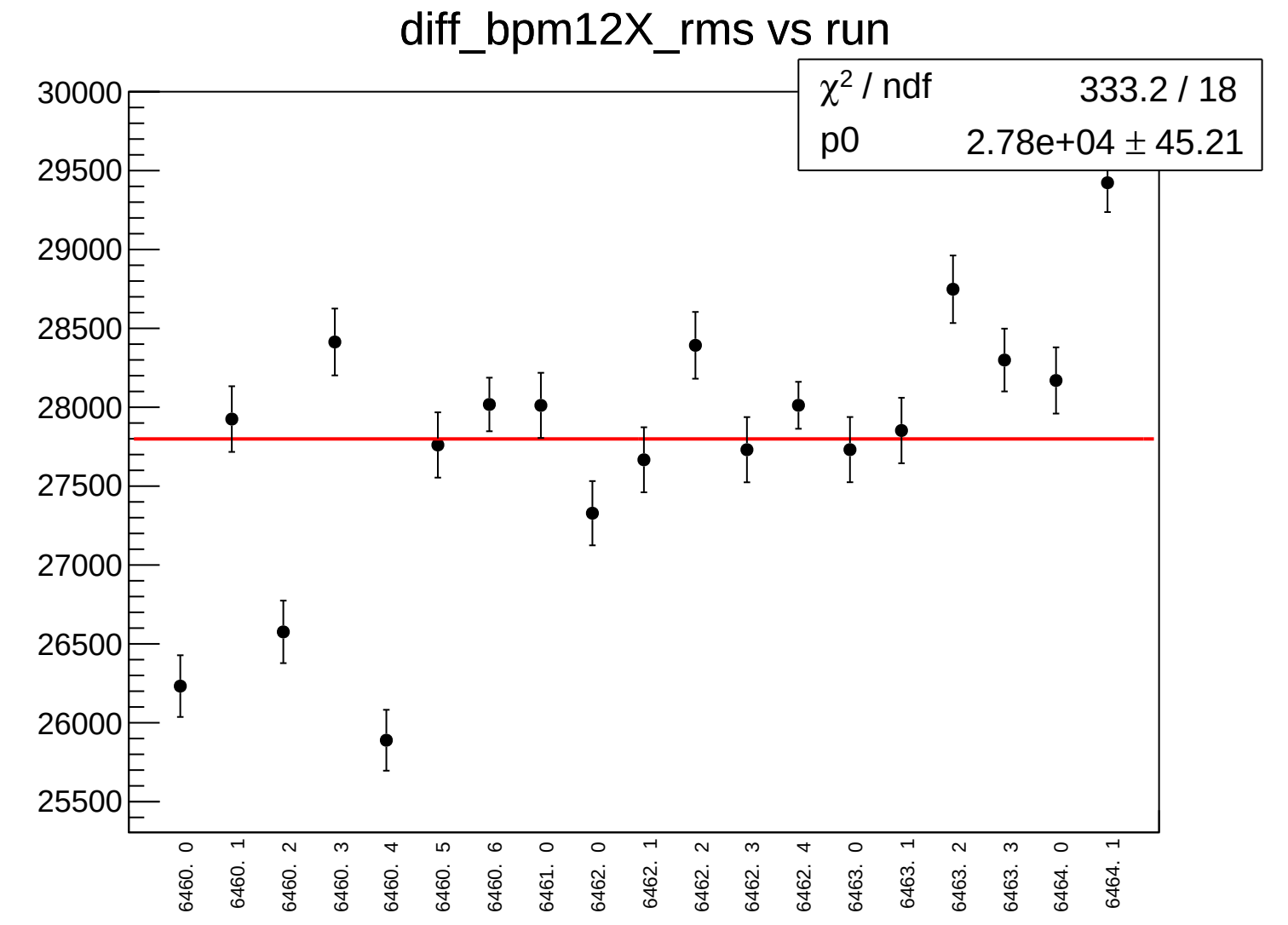

diff_bpm11Y_mean vs run
χ² / ndf 17.95 / 18
p0 8.742 ± 10.49
150
100
50
0
−50
−100
−150
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 472.4
Std Dev 461.7
1.5
1
0.5
0
−0.5
−1
−1.5
−2

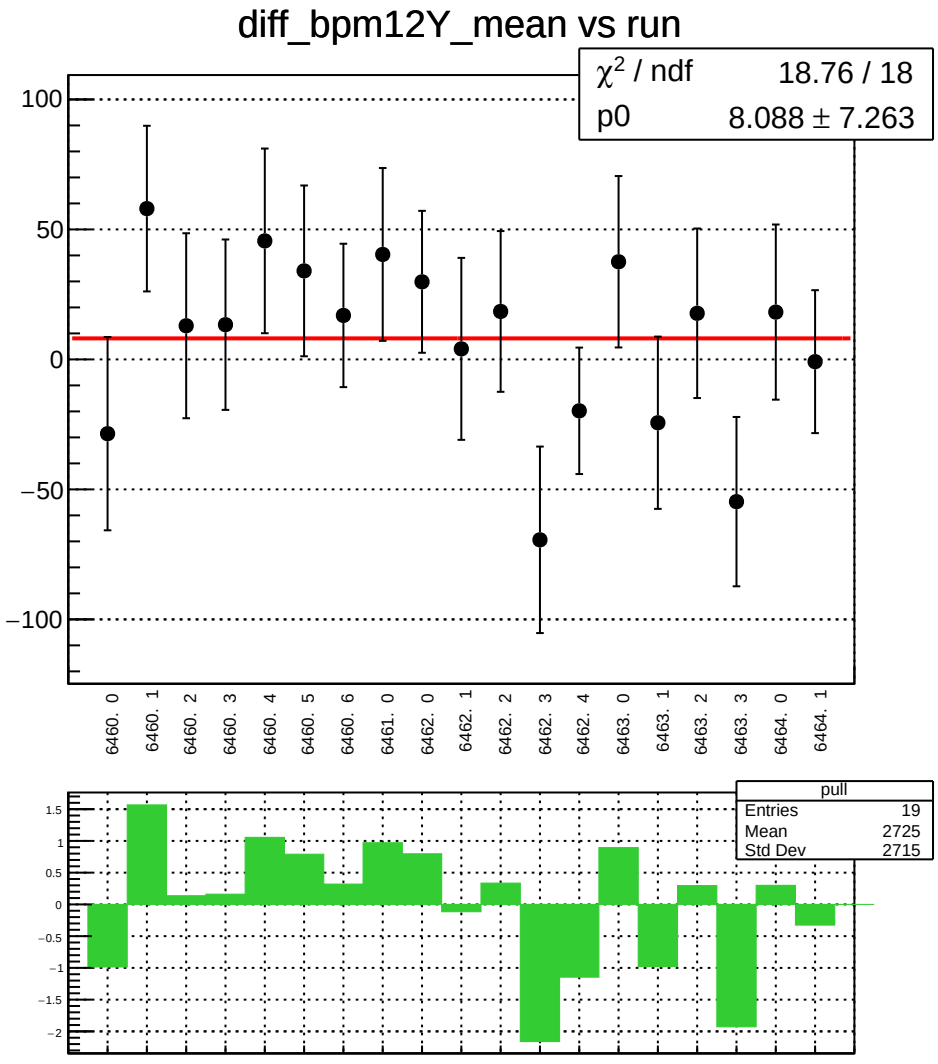

pull1D
Entries 19
Mean −0.004997
Std Dev 0.9719
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

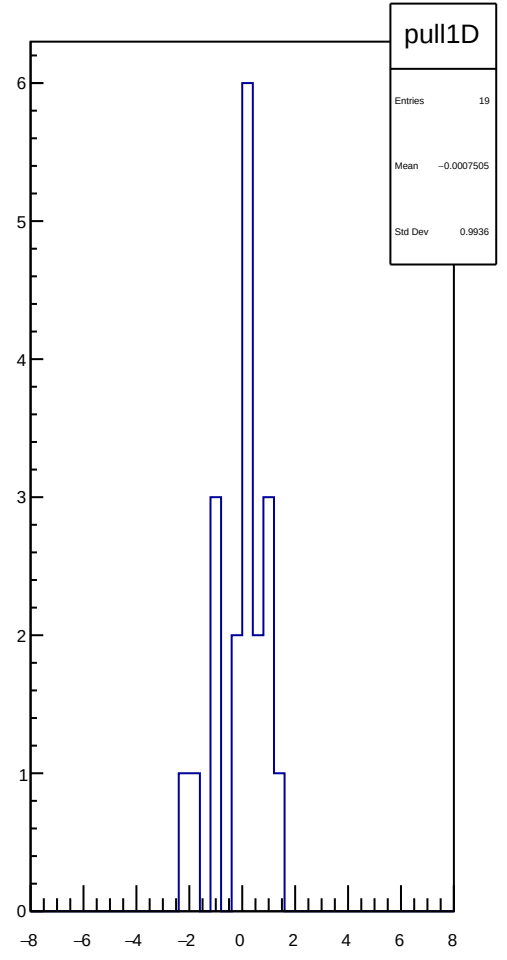

diff_bpm11Y_rms vs run
χ² / ndf 1713 / 18
p0 4553 ± 7.419
5200
5000
4800
4600
4400
4200
4000
3800
3600
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

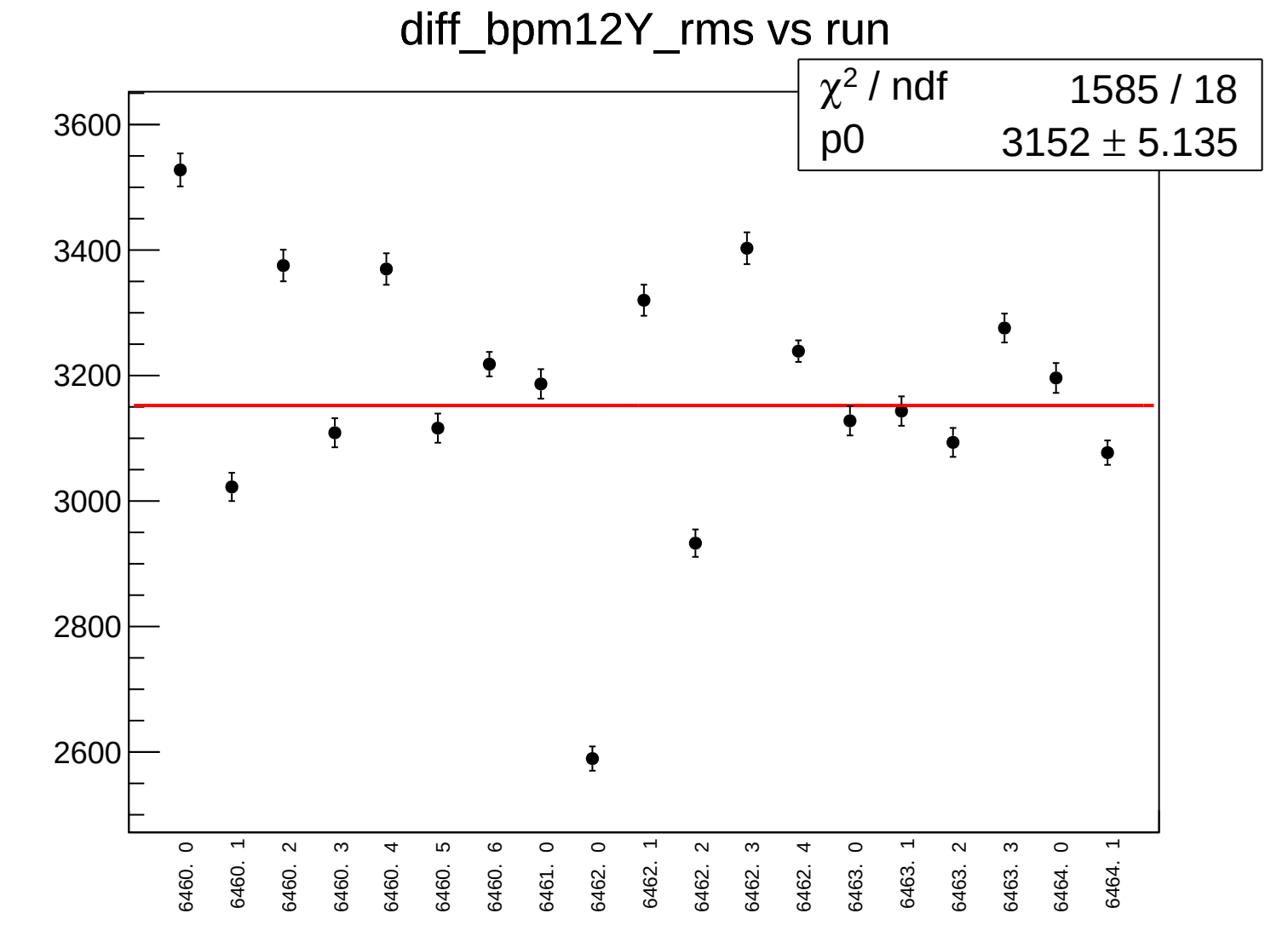

diff_bpm12X_mean vs run
χ² / ndf 15.5 / 18
p0 99.48 ± 63.94
1000
800
600
400
200
0
−200
−400
−600
−800
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 4.402
Std Dev 20.46
2
1.5
1
0.5
0
−0.5
−1
−1.5

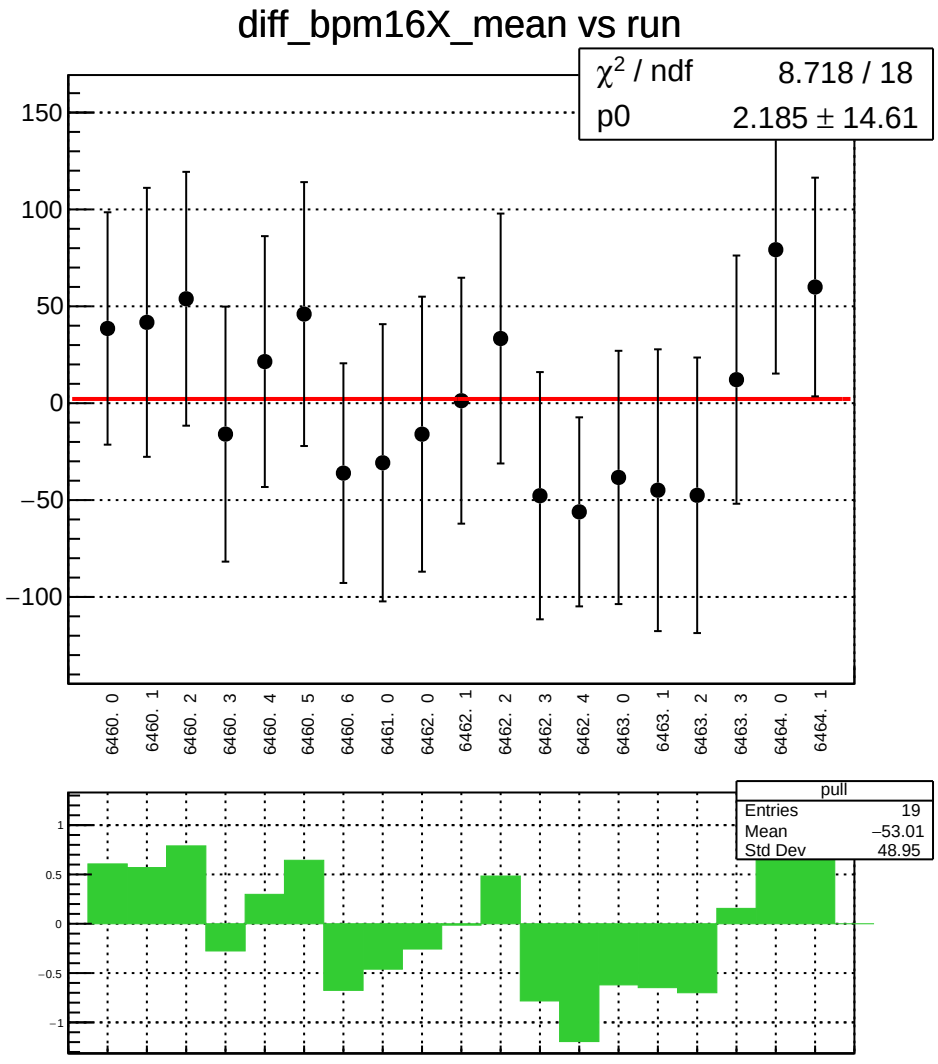

pull1D
Entries 19
Mean 0.01234
Std Dev 0.903
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

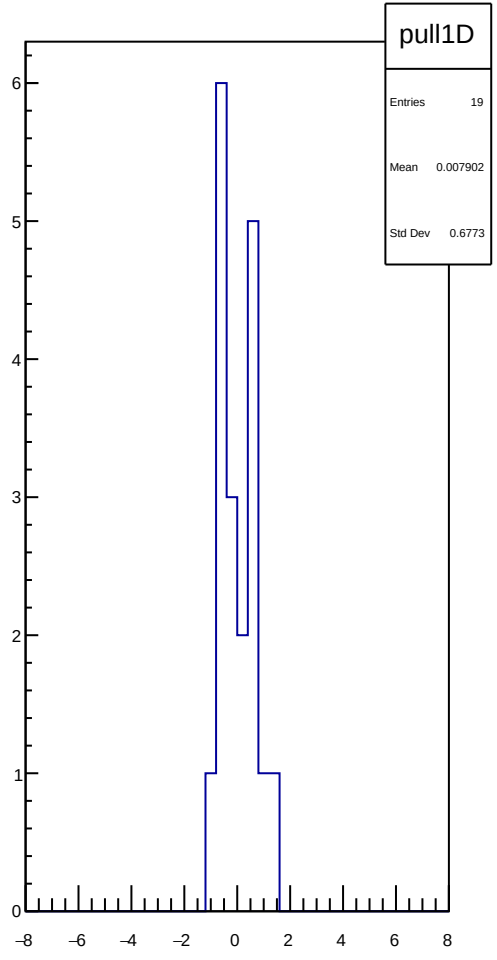

diff_bpm12X_rms vs run
χ² / ndf 333.2 / 18
p0 2.78e+04 ± 45.21
30000
29500
29000
28500
28000
27500
27000
26500
26000
25500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

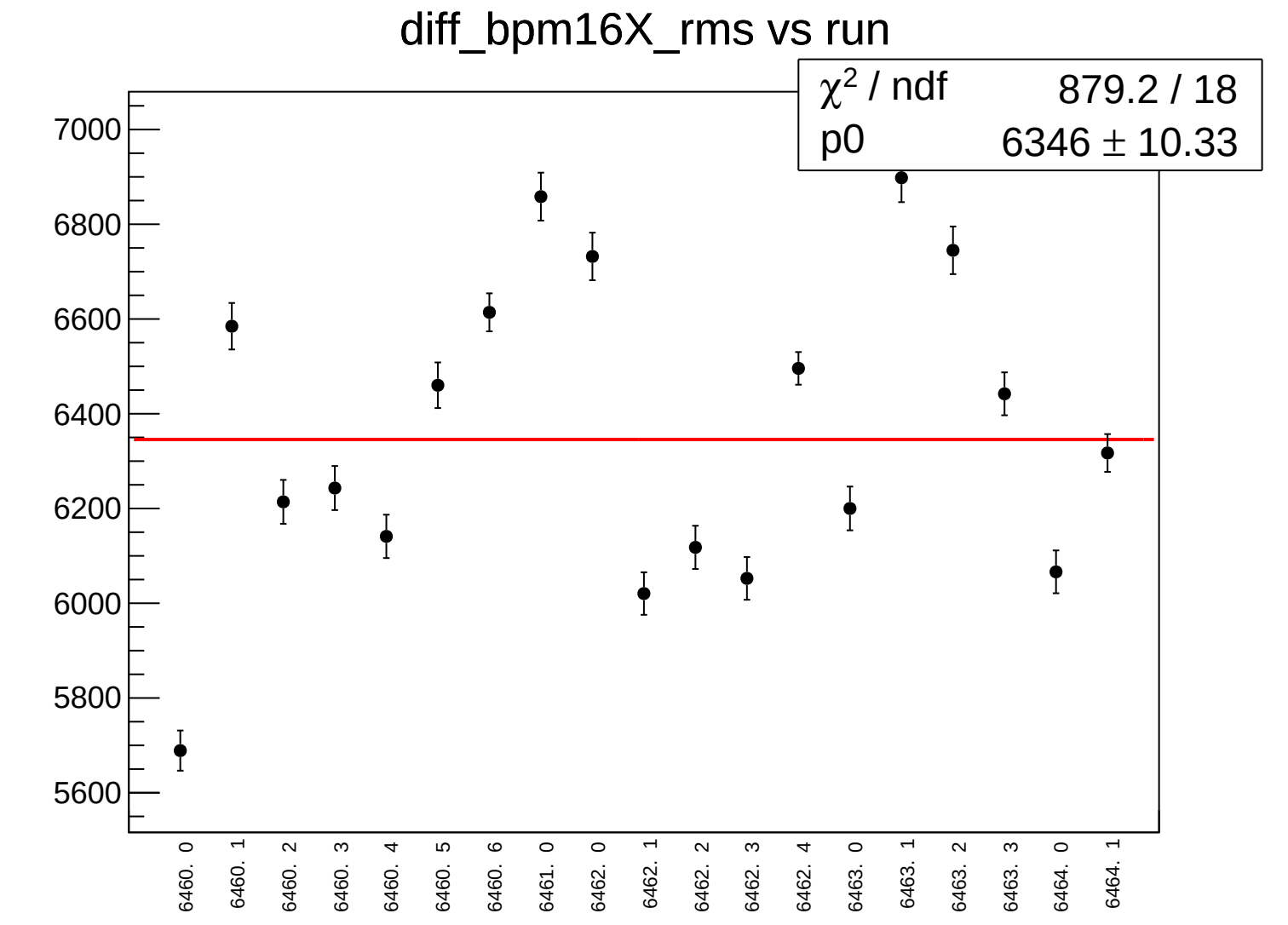

diff_bpm12Y_mean vs run
χ² / ndf 18.76 / 18
p0 8.088 ± 7.263
100
50
0
−50
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 2725
Std Dev 2715
1.5
1
0.5
0
−0.5
−1
−1.5
−2

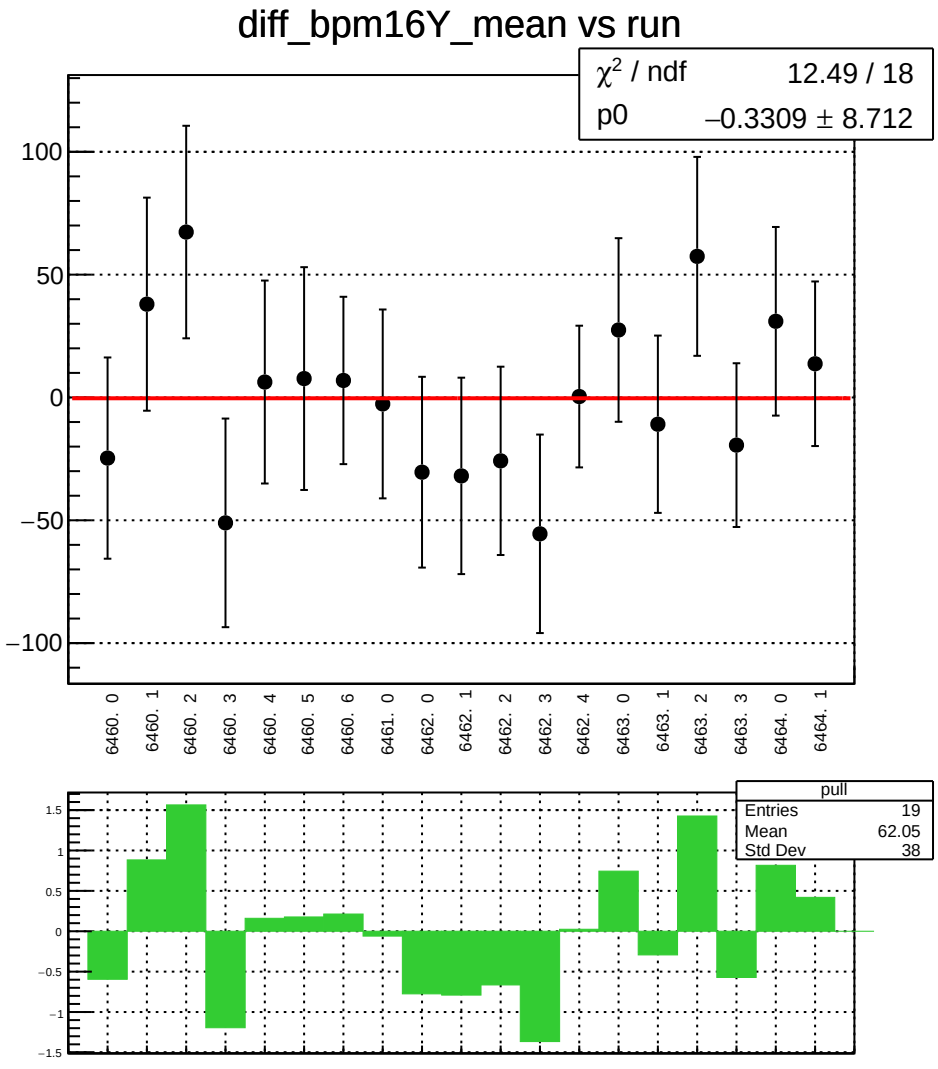

pull1D
Entries 19
Mean −0.0007505
Std Dev 0.9936
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

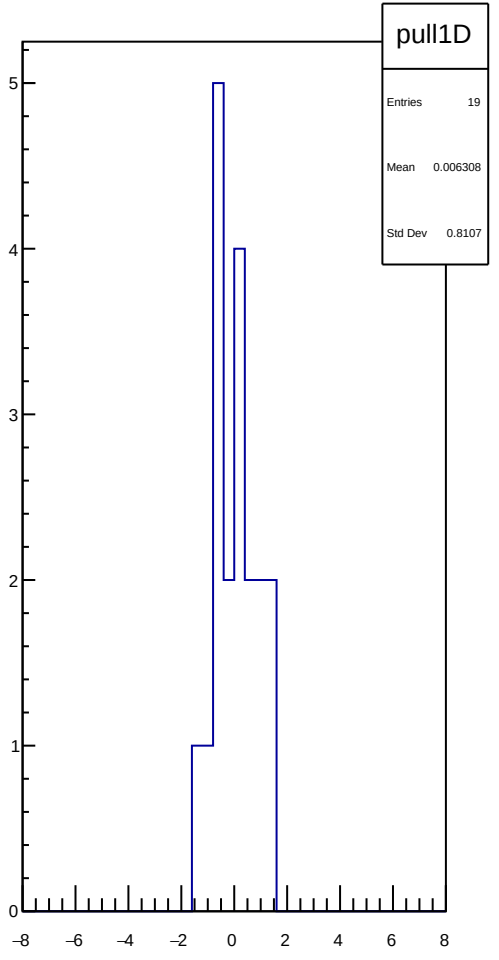

diff_bpm12Y_rms vs run
χ² / ndf 1585 / 18
p0 3152 ± 5.135
3600
3400
3200
3000
2800
2600
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

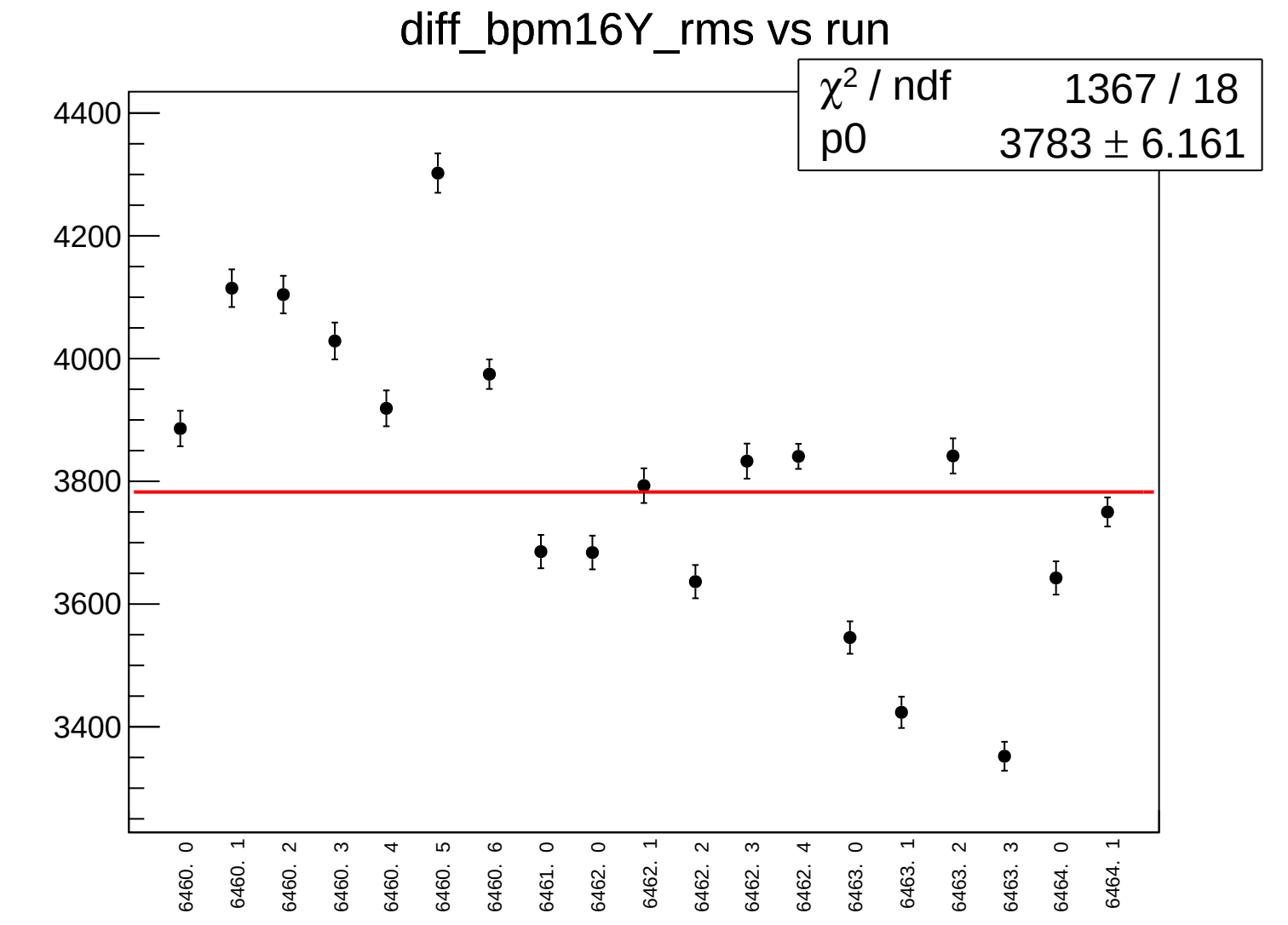

diff_bpm16X_mean vs run
χ² / ndf 8.718 / 18
p0 2.185 ± 14.61
150
100
50
0
−50
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −53.01
Std Dev 48.95
1
0.5
0
−0.5
−1

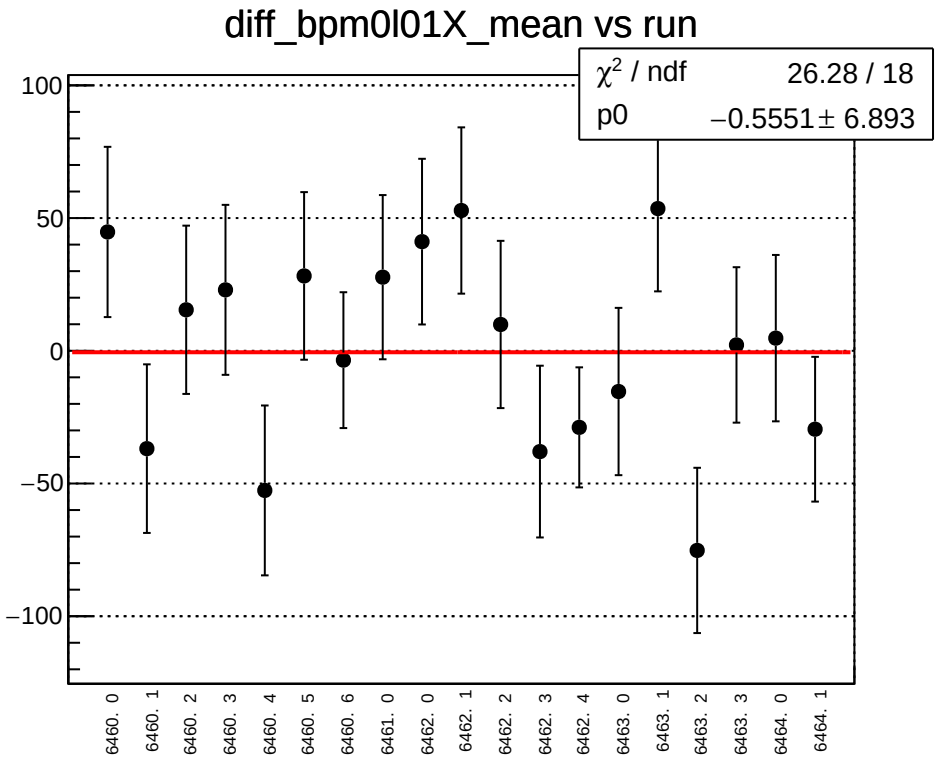

pull1D
Entries 19
Mean 0.007902
Std Dev 0.6773
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

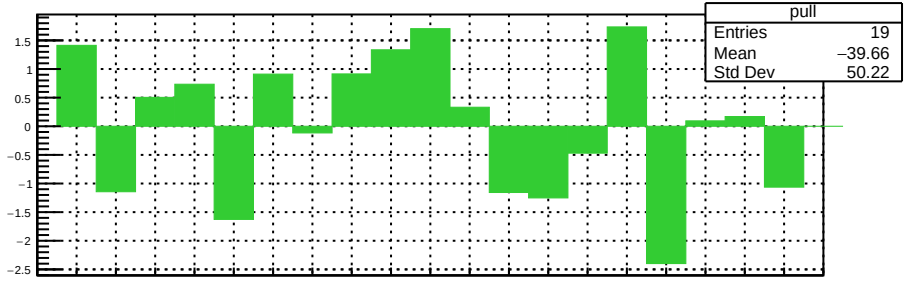

diff_bpm16X_rms vs run
χ² / ndf 879.2 / 18
p0 6346 ± 10.33
7000
6800
6600
6400
6200
6000
5800
5600
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

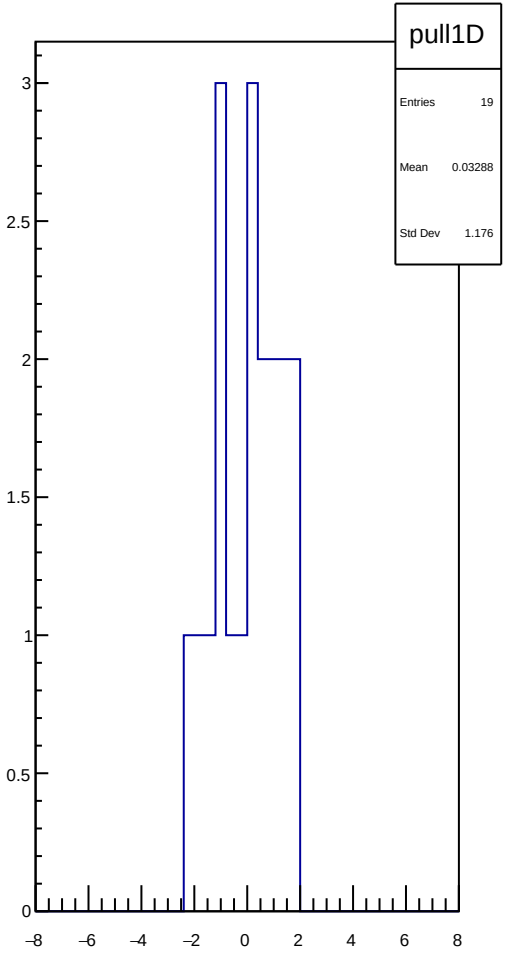

diff_bpm16Y_mean vs run
χ² / ndf 12.49 / 18
p0 −0.3309 ± 8.712
100
50
0
−50
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 62.05
Std Dev 38
1.5
1
0.5
0
−0.5
−1
−1.5

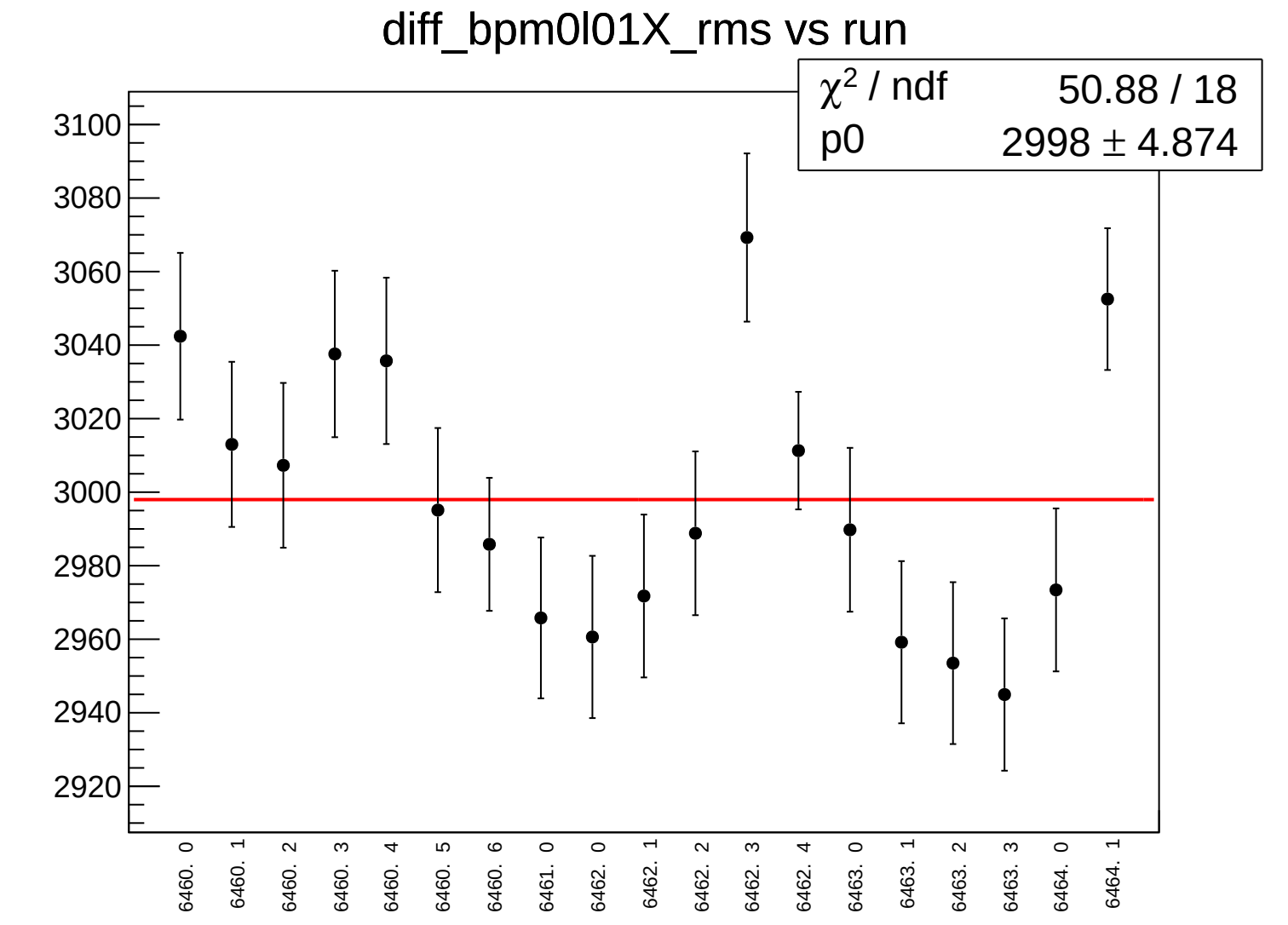

pull1D
Entries 19
Mean 0.006308
Std Dev 0.8107
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

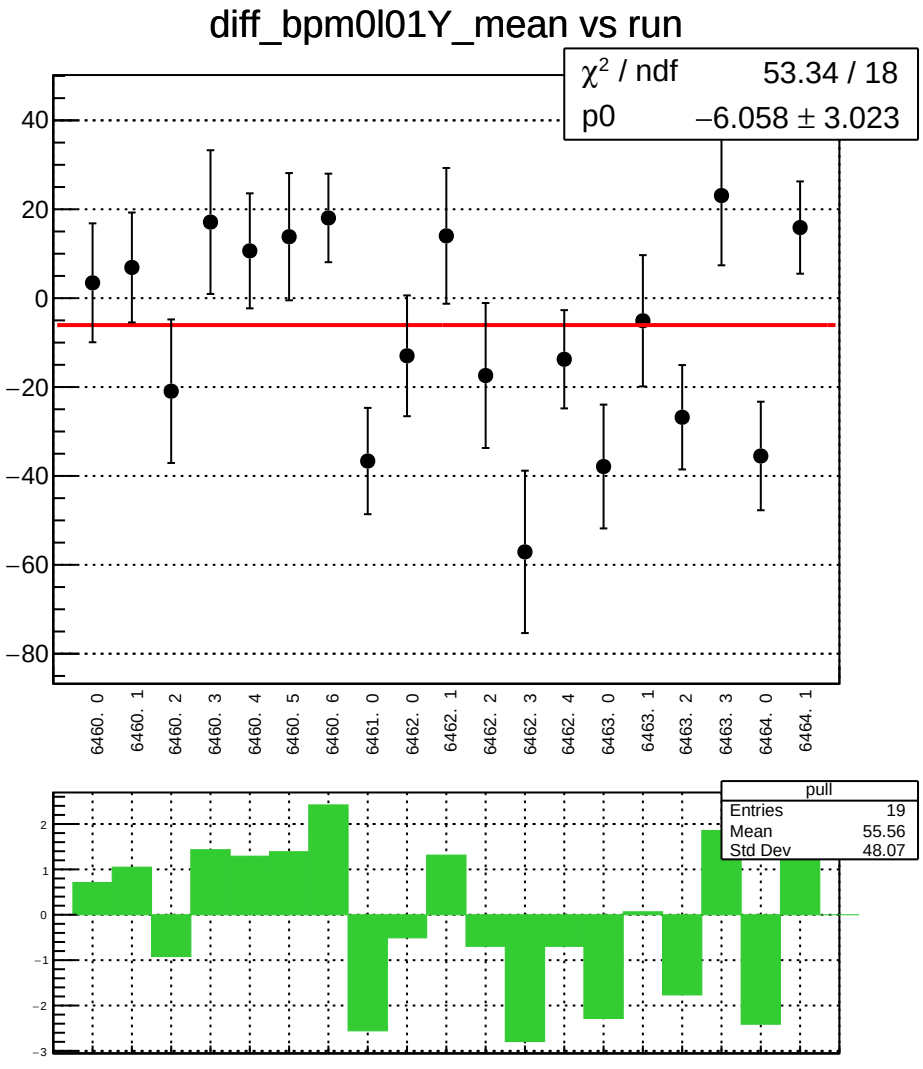

diff_bpm16Y_rms vs run
χ² / ndf 1367 / 18
p0 3783 ± 6.161
4400
4200
4000
3800
3600
3400
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

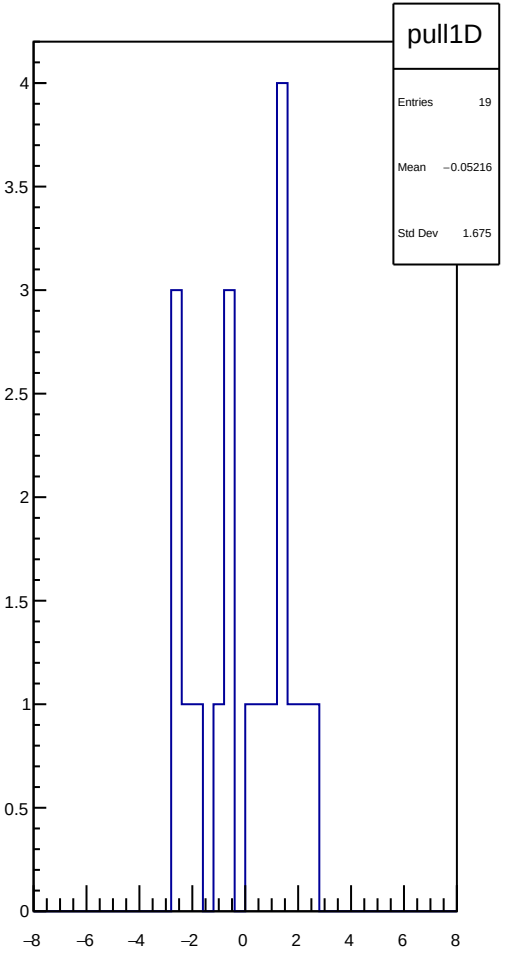

diff_bpm0l01X_mean vs run
χ² / ndf 26.28 / 18
p0 −0.5551 ± 6.893
100
50
0
−50
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

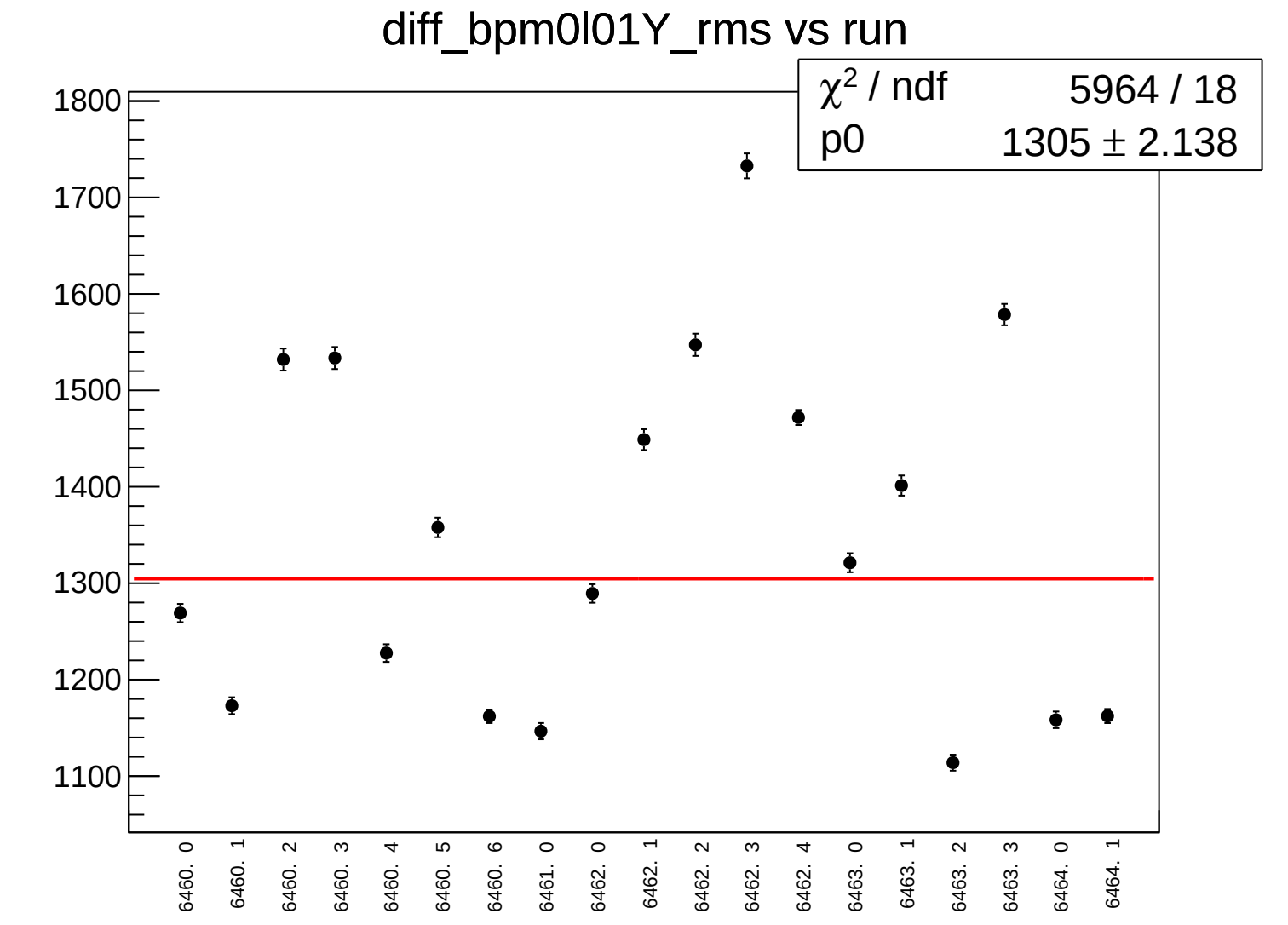

pull
Entries 19
Mean −39.66
Std Dev 50.22
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

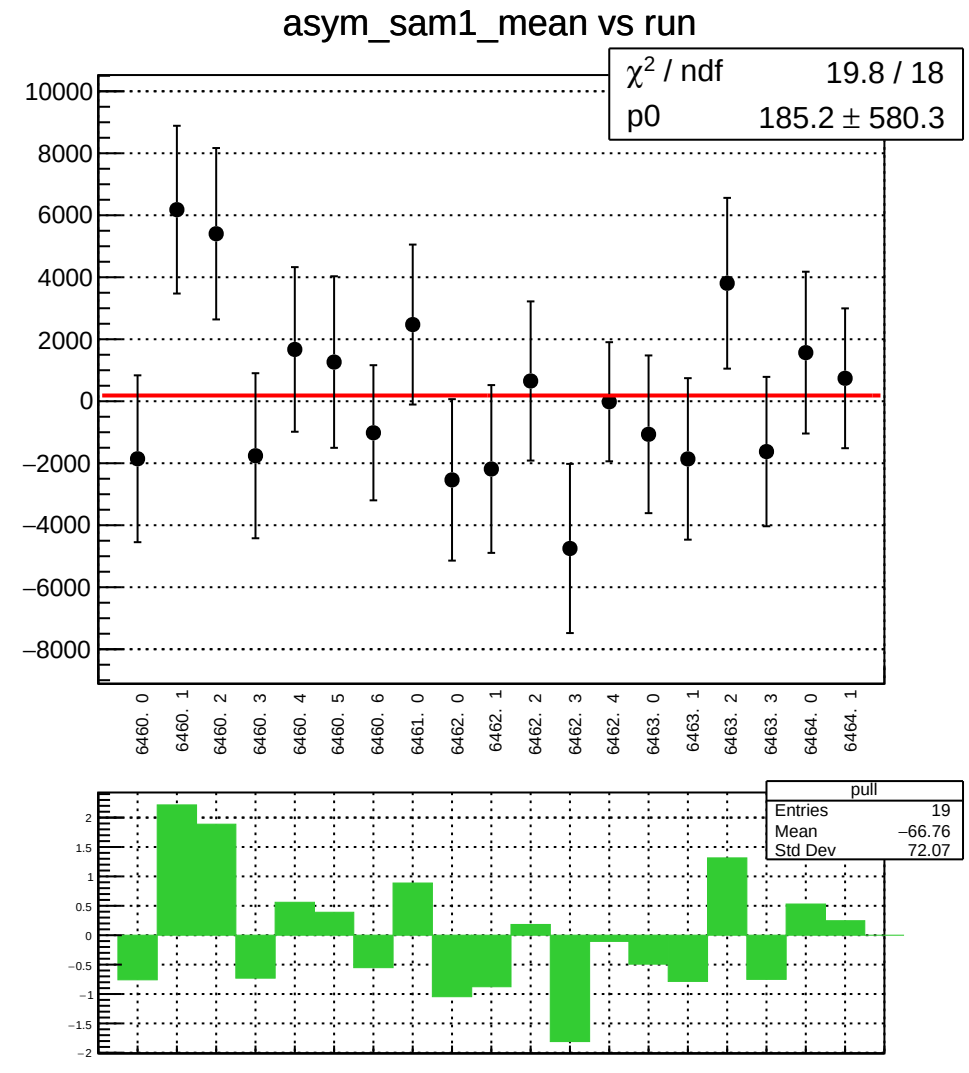

pull1D
Entries 19
Mean 0.03288
Std Dev 1.176
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

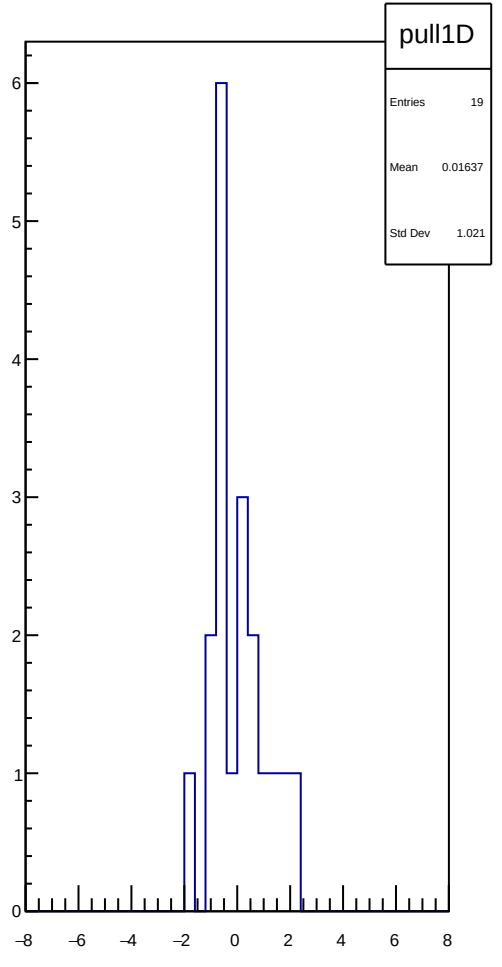

diff_bpm0l01X_rms vs run
χ² / ndf 50.88 / 18
p0 2998 ± 4.874
3100
3080
3060
3040
3020
3000
2980
2960
2940
2920
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

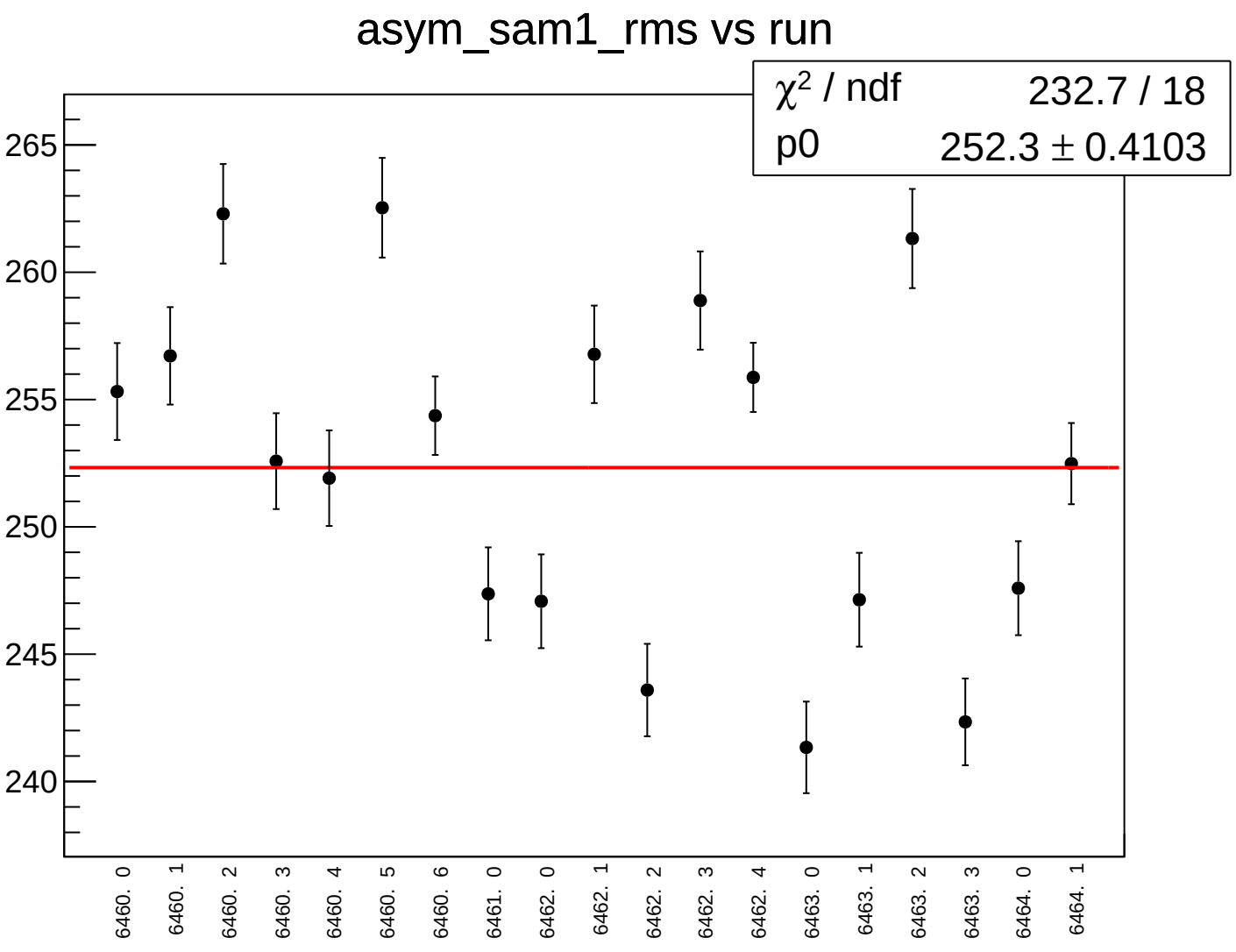

diff_bpm0l01Y_mean vs run
χ² / ndf 53.34 / 18
p0 −6.058 ± 3.023
40
20
0
−20
−40
−60
−80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 55.56
Std Dev 48.07
2
1
0
−1
−2
−3

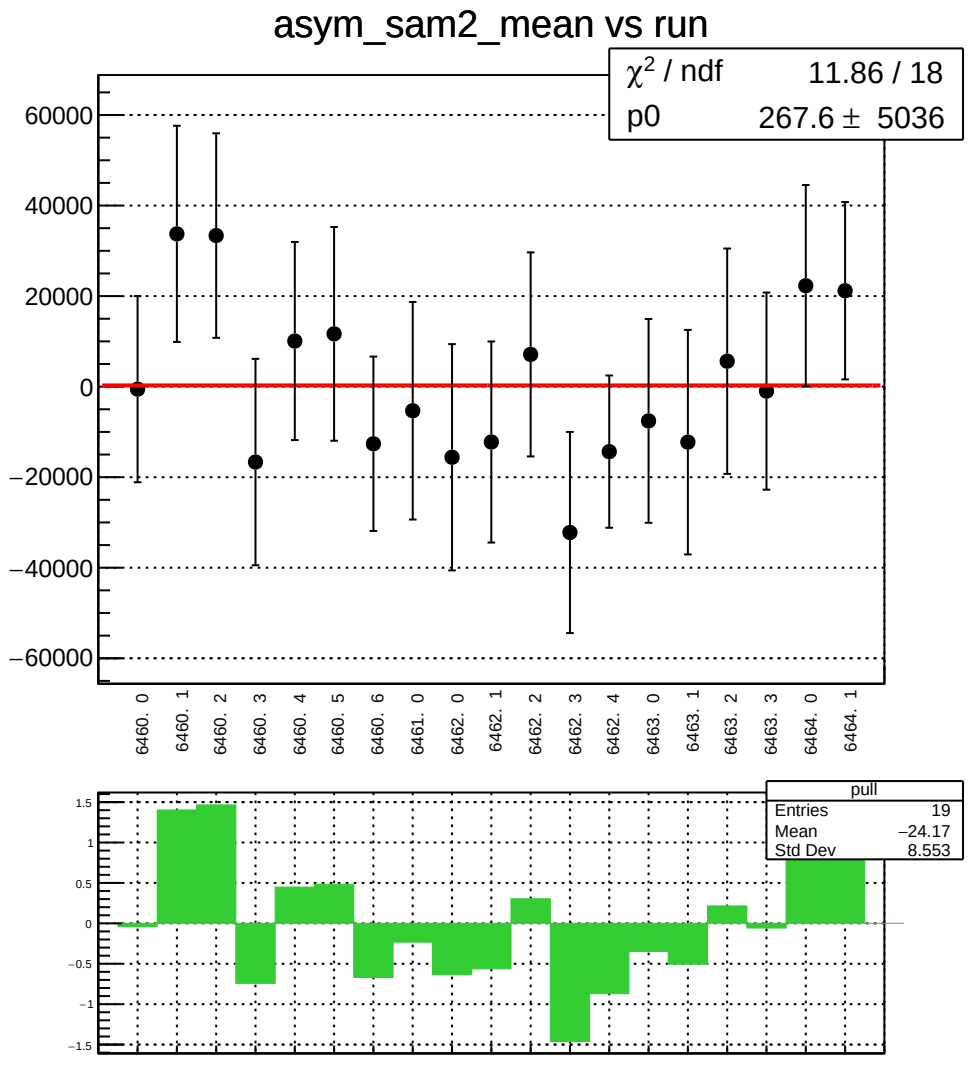

pull1D
Entries 19
Mean −0.05216
Std Dev 1.675
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

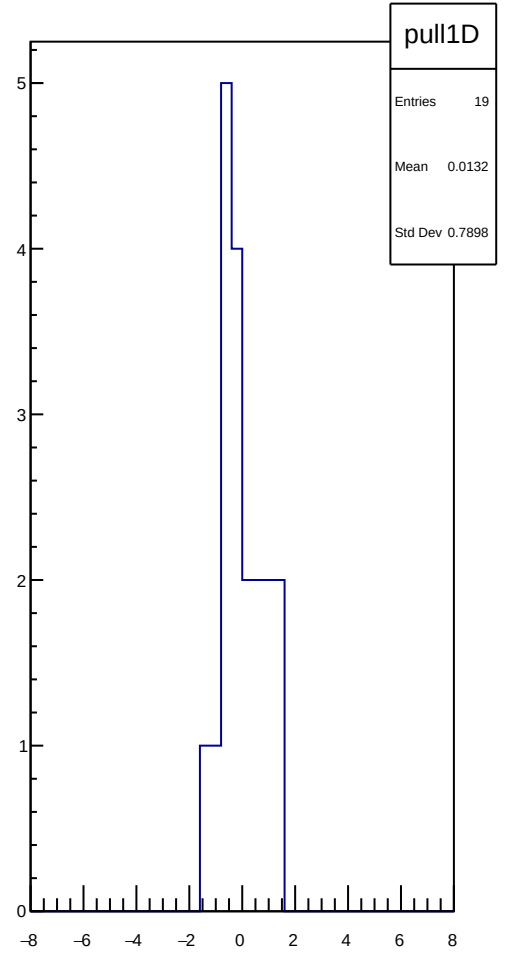

diff_bpm0l01Y_rms vs run
χ² / ndf 5964 / 18
p0 1305 ± 2.138
1800
1700
1600
1500
1400
1300
1200
1100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

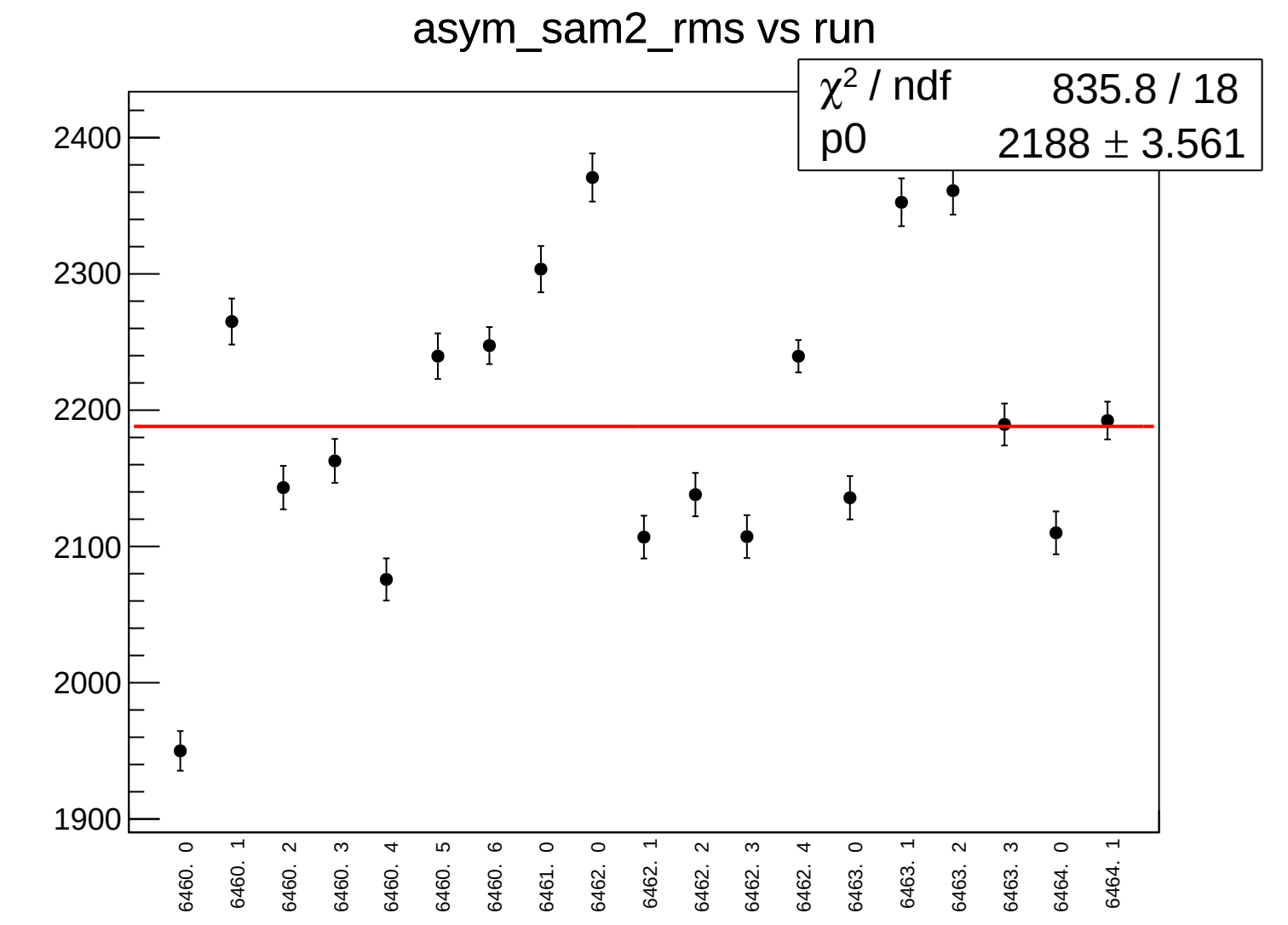

asym_sam1_mean vs run
χ² / ndf 19.8 / 18
p0 185.2 ± 580.3
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −66.76
Std Dev 72.07
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

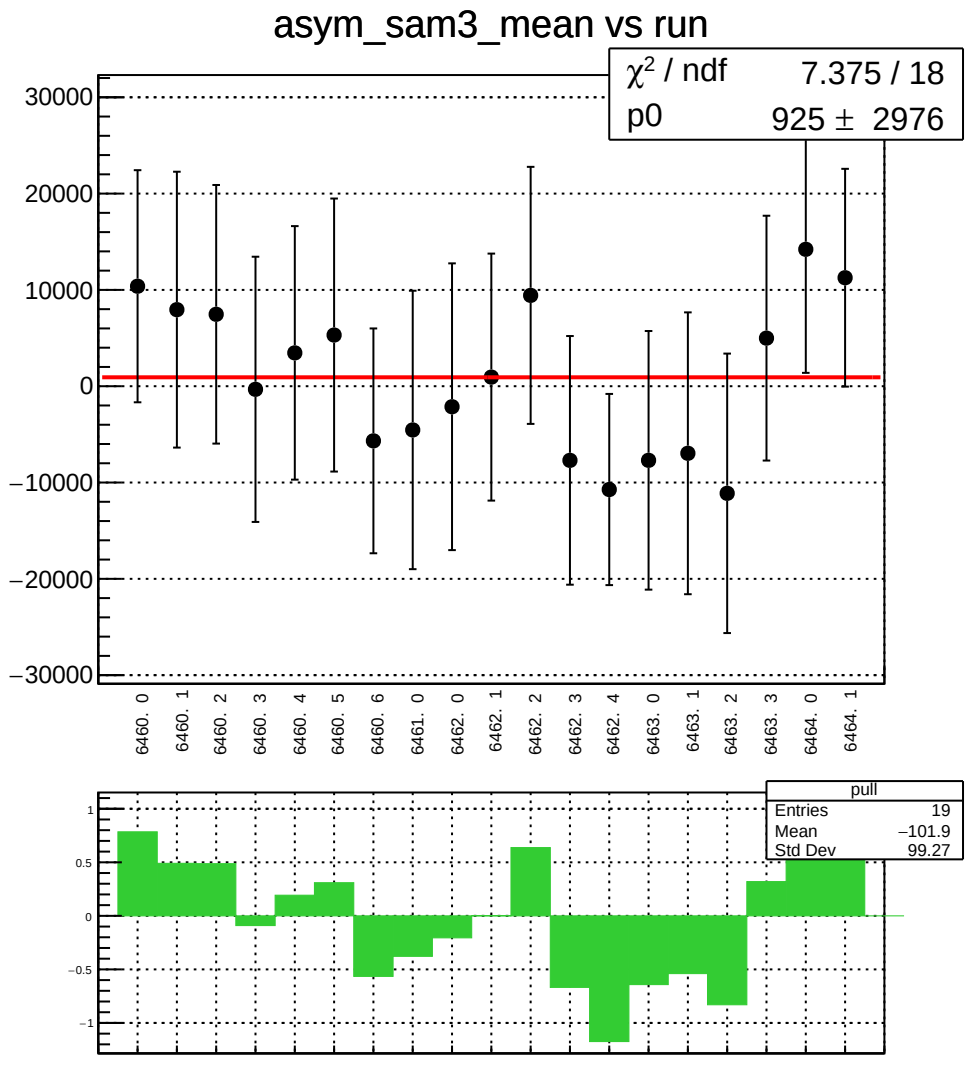

pull1D
Entries 19
Mean 0.01637
Std Dev 1.021
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

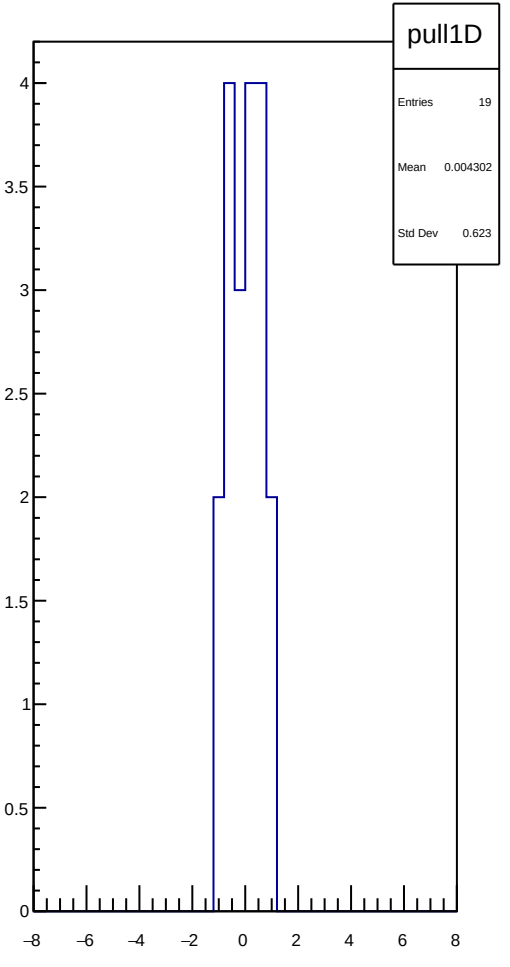

asym_sam1_rms vs run
χ² / ndf 232.7 / 18
p0 252.3 ± 0.4103
265
260
255
250
245
240
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

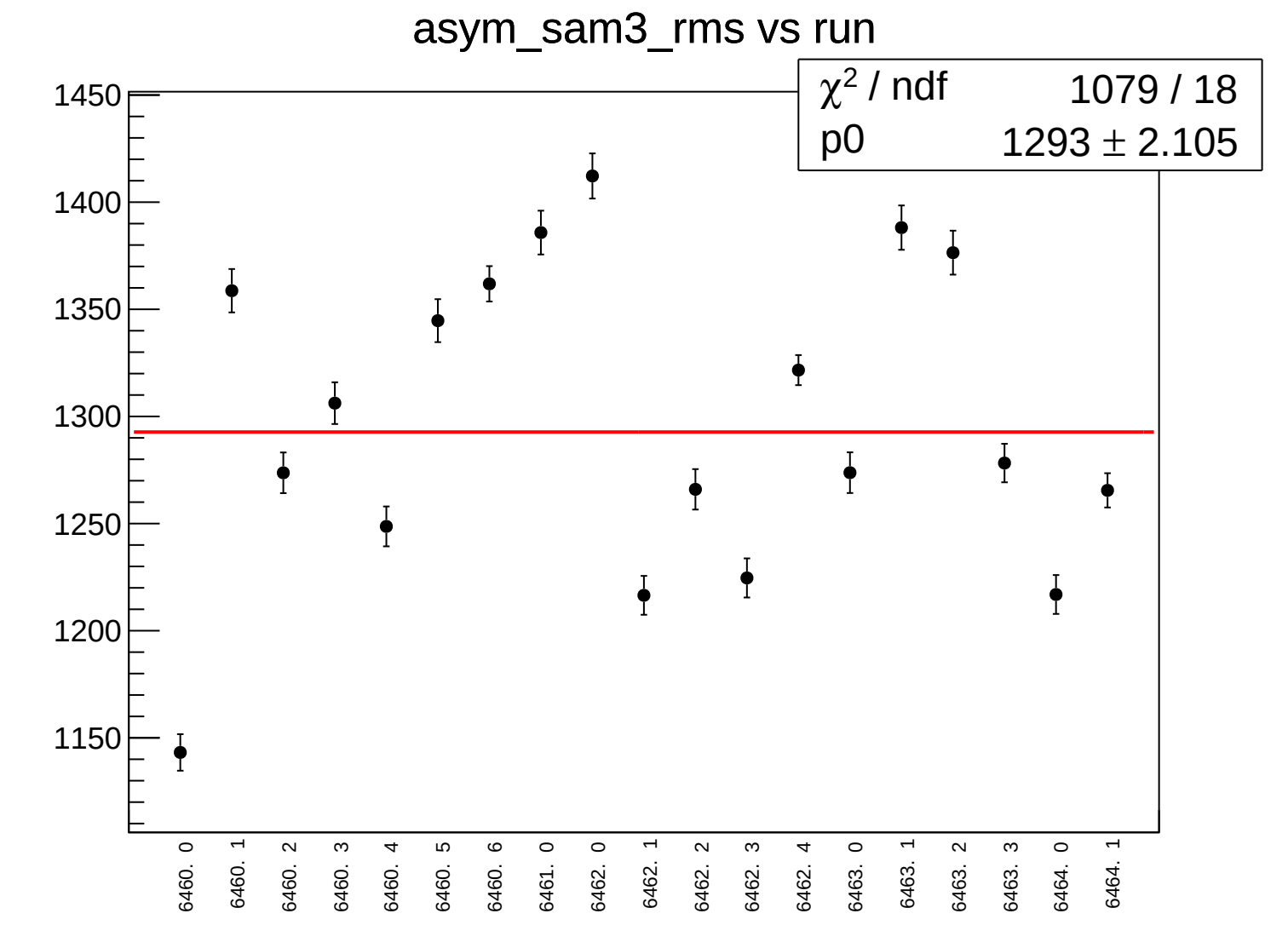

asym_sam2_mean vs run
χ² / ndf 11.86 / 18
p0 267.6 ± 5036
60000
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −24.17
Std Dev 8.553
1.5
1
0.5
0
−0.5
−1
−1.5

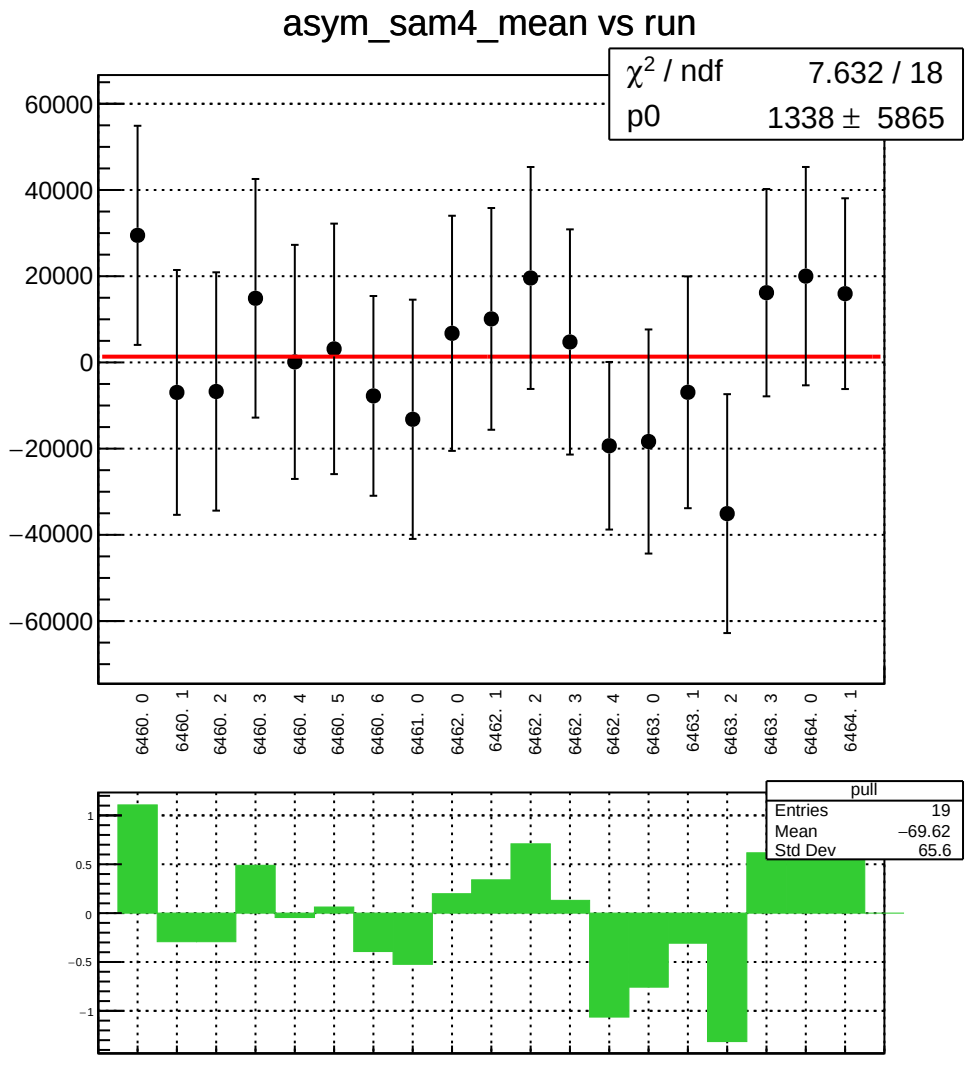

pull1D
Entries 19
Mean 0.0132
Std Dev 0.7898
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

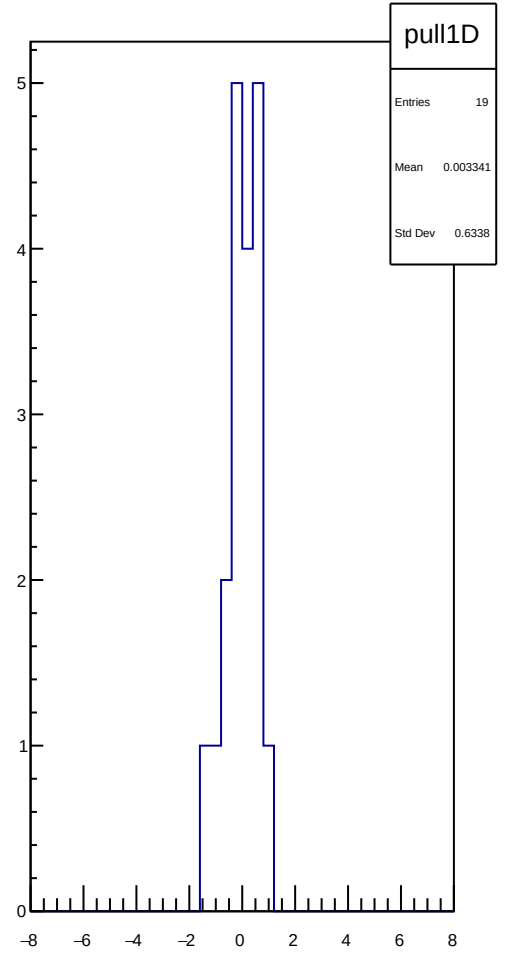

asym_sam2_rms vs run
χ² / ndf 835.8 / 18
p0 2188 ± 3.561
2400
2300
2200
2100
2000
1900
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

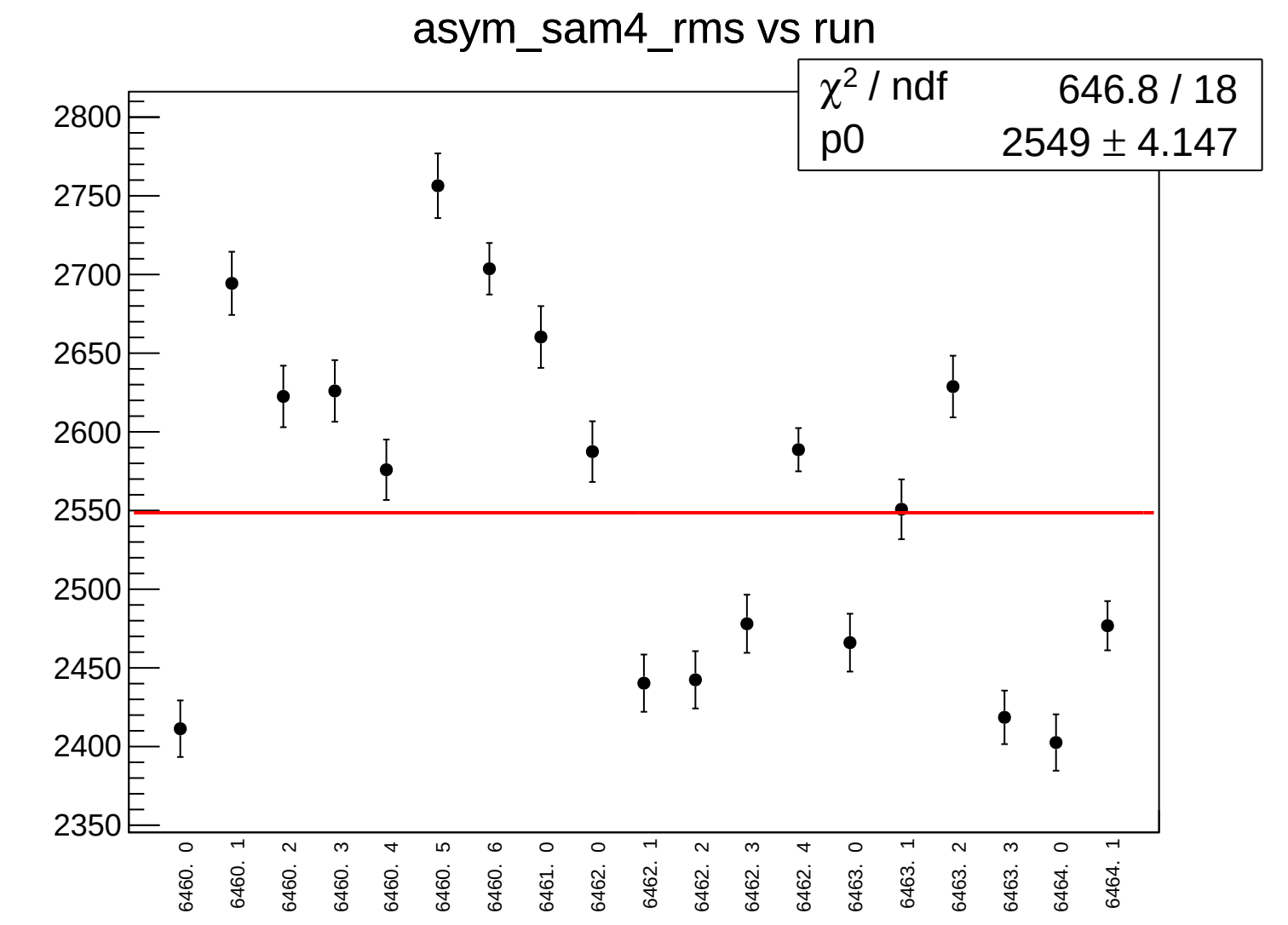

asym_sam3_mean vs run
χ² / ndf 7.375 / 18
p0 925 ± 2976
30000
20000
10000
0
−10000
−20000
−30000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −101.9
Std Dev 99.27
1
0.5
0
−0.5
−1

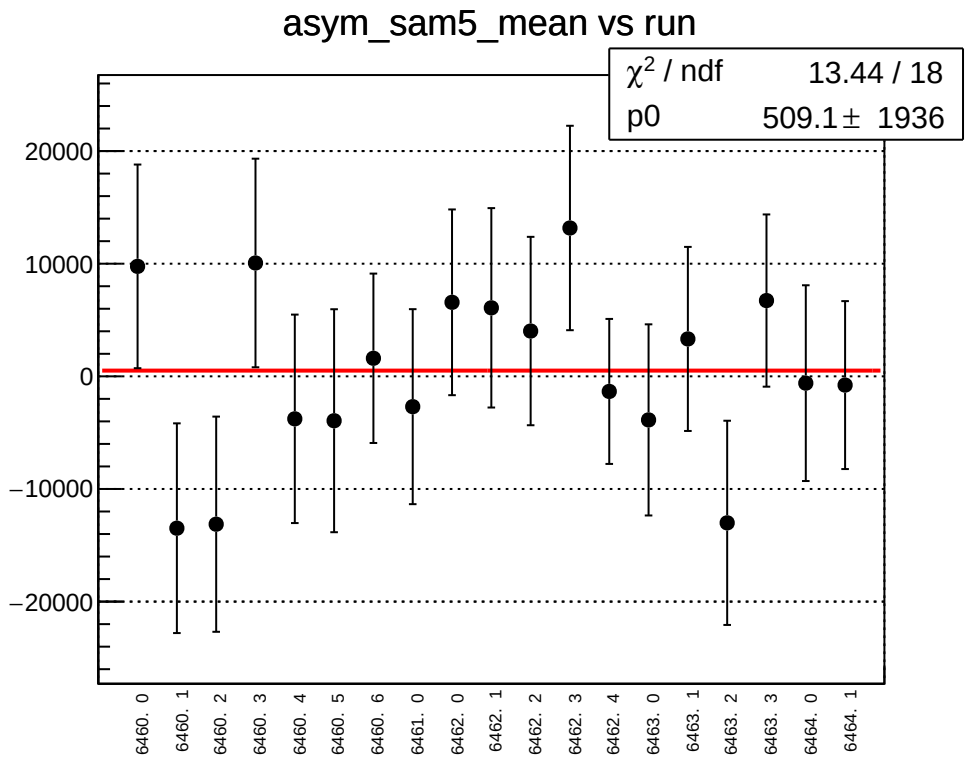

pull1D
Entries 19
Mean 0.004302
Std Dev 0.623
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

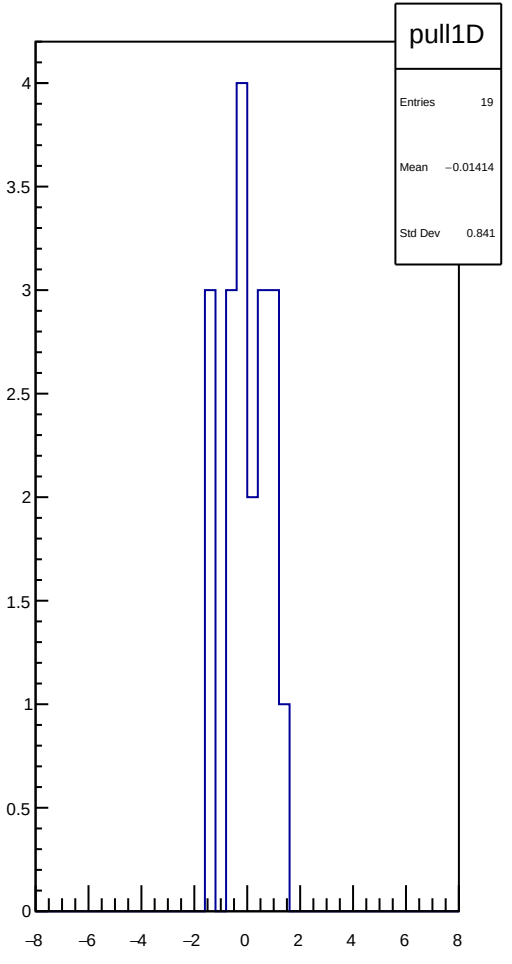

asym_sam3_rms vs run
χ² / ndf 1079 / 18
p0 1293 ± 2.105
1450
1400
1350
1300
1250
1200
1150
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

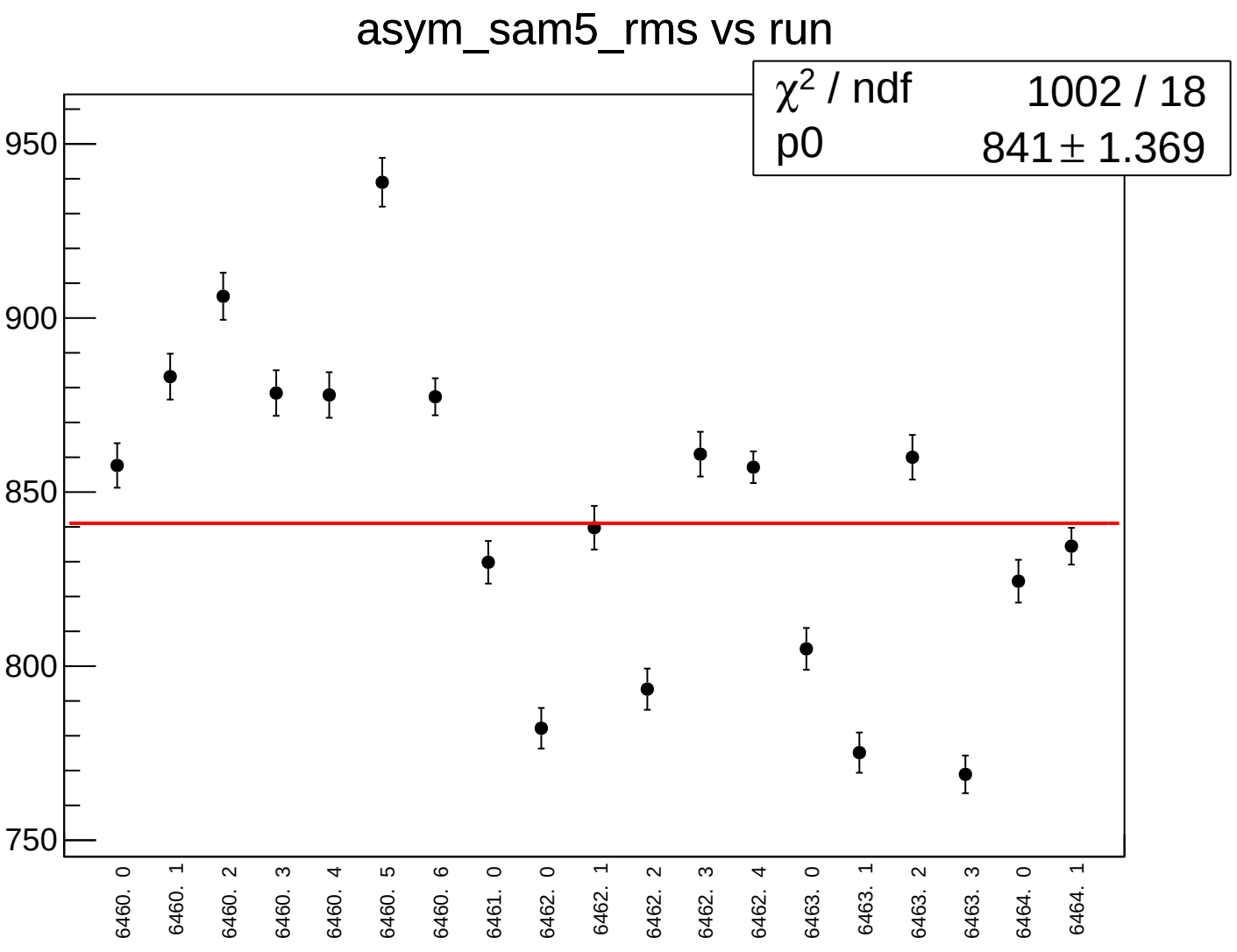

asym_sam4_mean vs run
χ² / ndf 7.632 / 18
p0 1338 ± 5865
60000
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −69.62
Std Dev 65.6
1
0.5
0
−0.5
−1

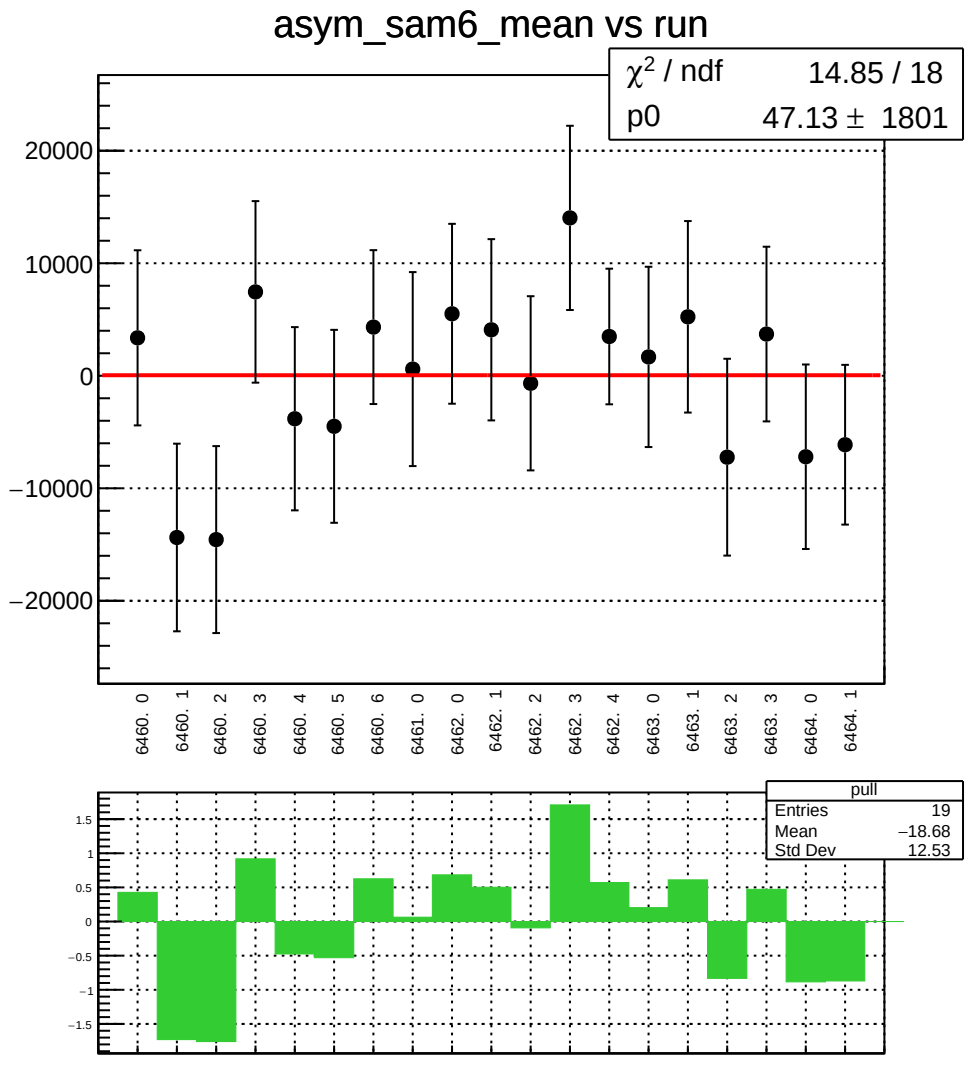

pull1D
Entries 19
Mean 0.003341
Std Dev 0.6338
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

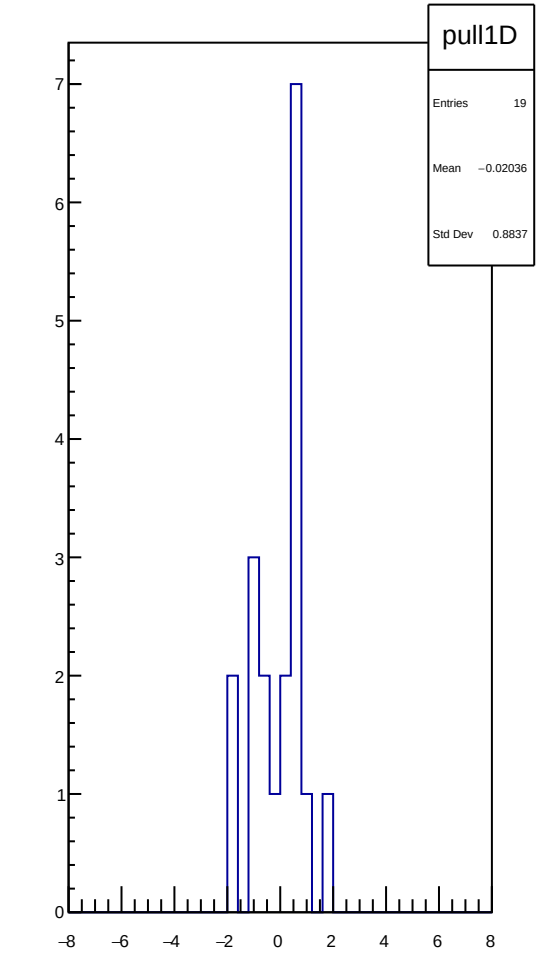

asym_sam4_rms vs run
χ² / ndf 646.8 / 18
p0 2549 ± 4.147
2800
2750
2700
2650
2600
2550
2500
2450
2400
2350
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

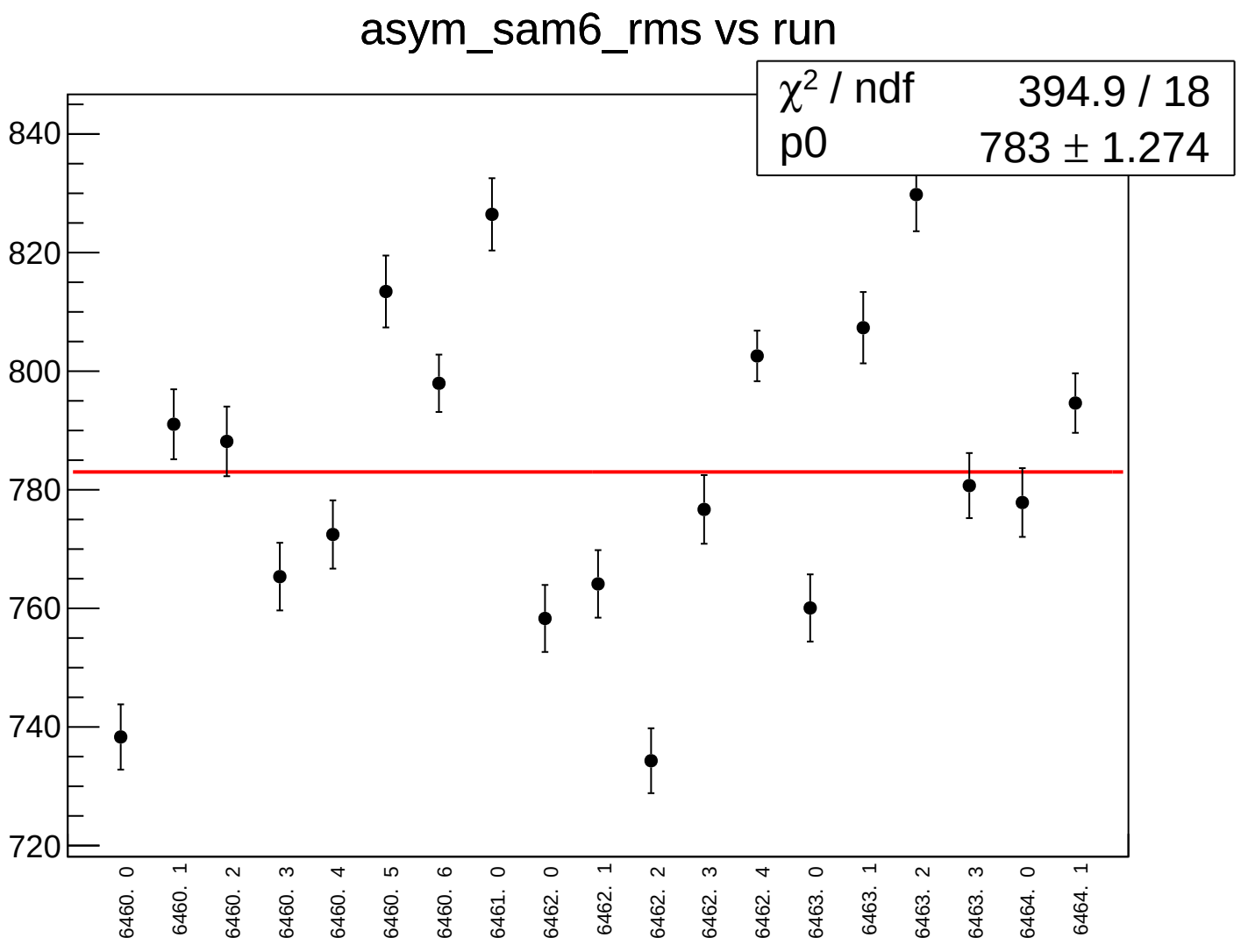

asym_sam5_mean vs run
χ² / ndf 13.44 / 18
p0 509.1 ± 1936
20000
10000
0
−10000
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −14.59
Std Dev 14.86
1.5
1
0.5
0
−0.5
−1
−1.5

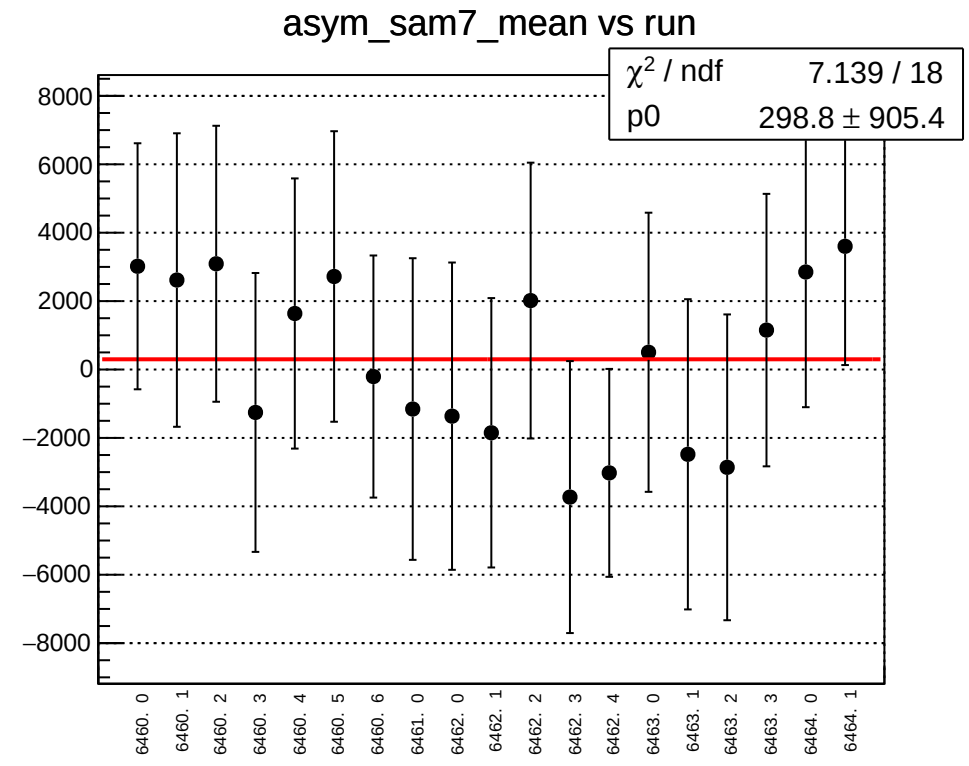

pull1D
Entries 19
Mean −0.01414
Std Dev 0.841
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

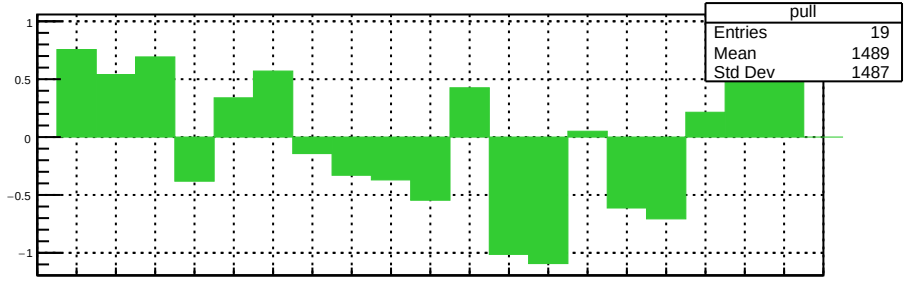

asym_sam5_rms vs run
χ² / ndf 1002 / 18
p0 841 ± 1.369
950
900
850
800
750
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

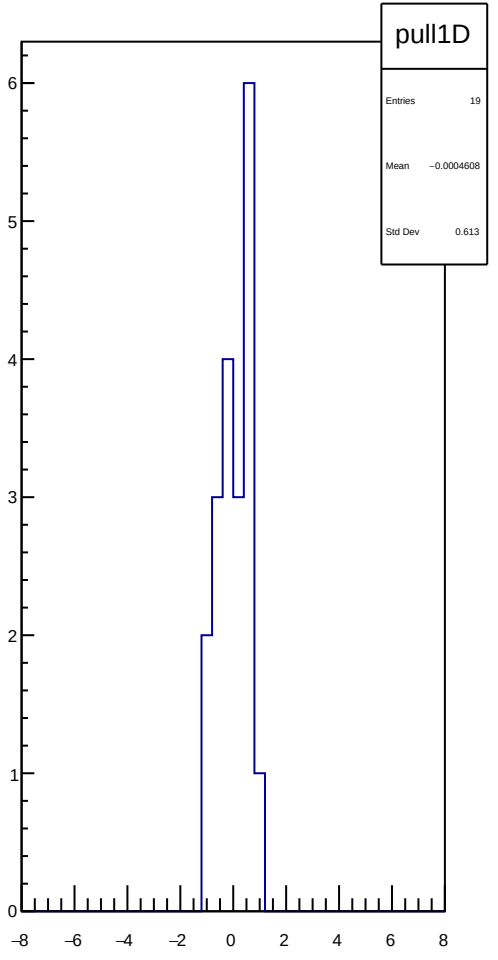

asym_sam6_mean vs run
χ² / ndf 14.85 / 18
p0 47.13 ± 1801
20000
10000
0
−10000
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −18.68
Std Dev 12.53
1.5
1
0.5
0
−0.5
−1
−1.5

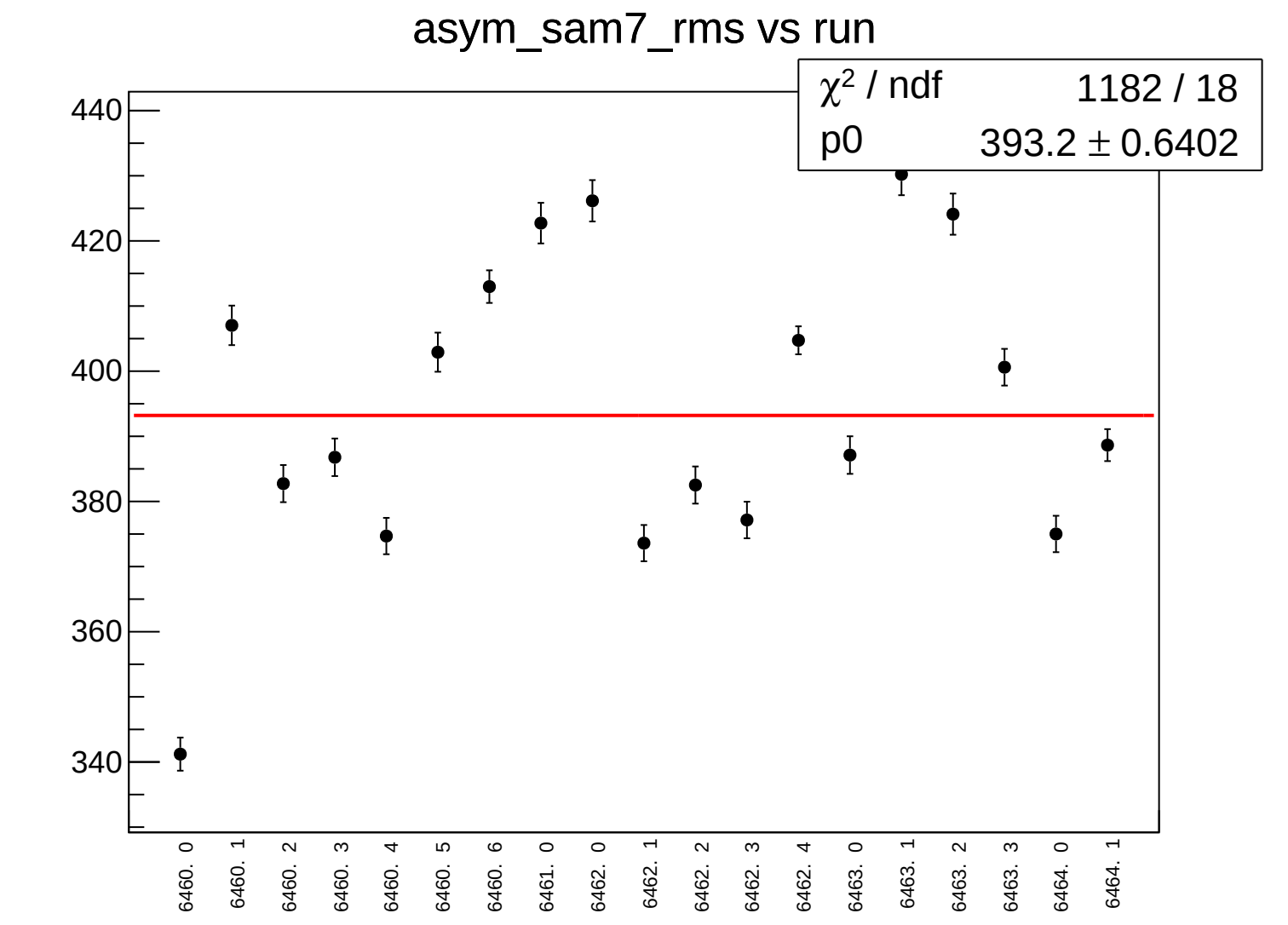

pull1D
Entries 19
Mean −0.02036
Std Dev 0.8837
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

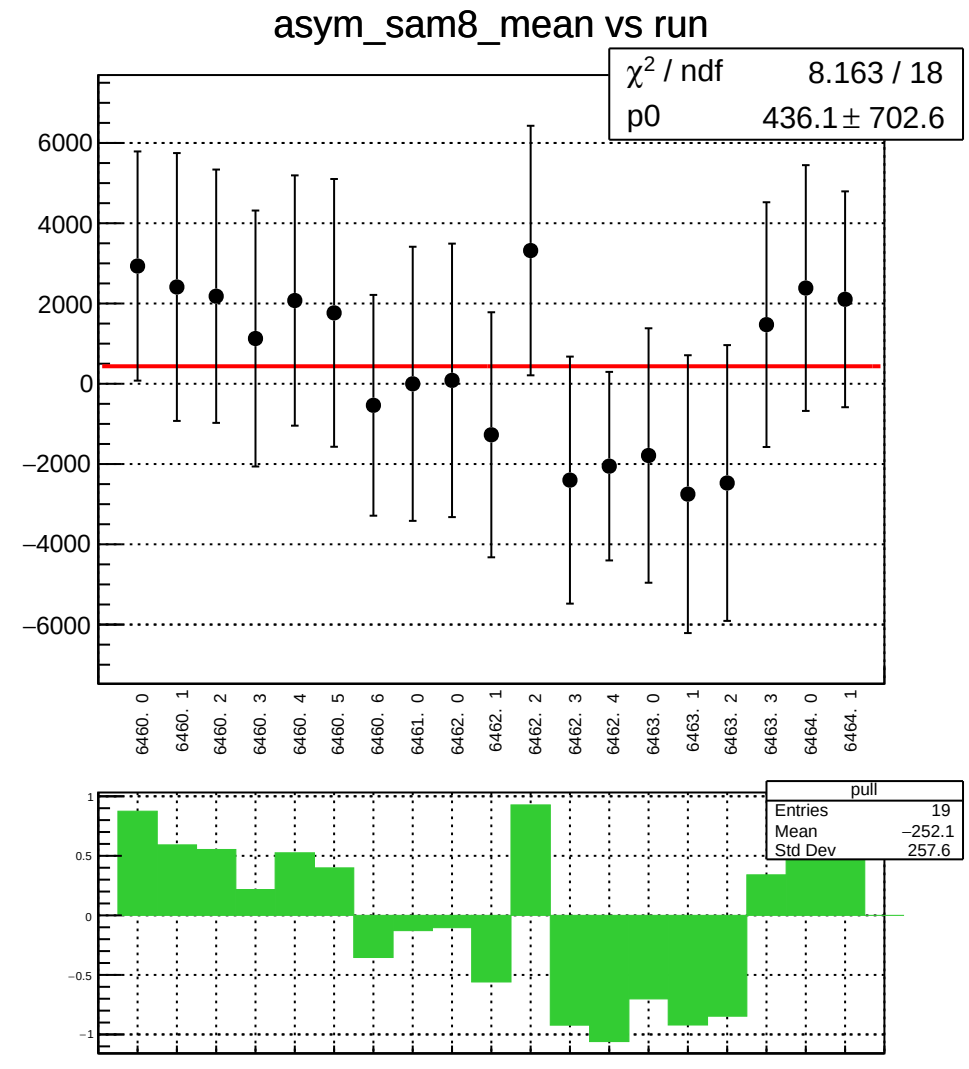

asym_sam6_rms vs run
χ² / ndf 394.9 / 18
p0 783 ± 1.274
840
820
800
780
760
740
720
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

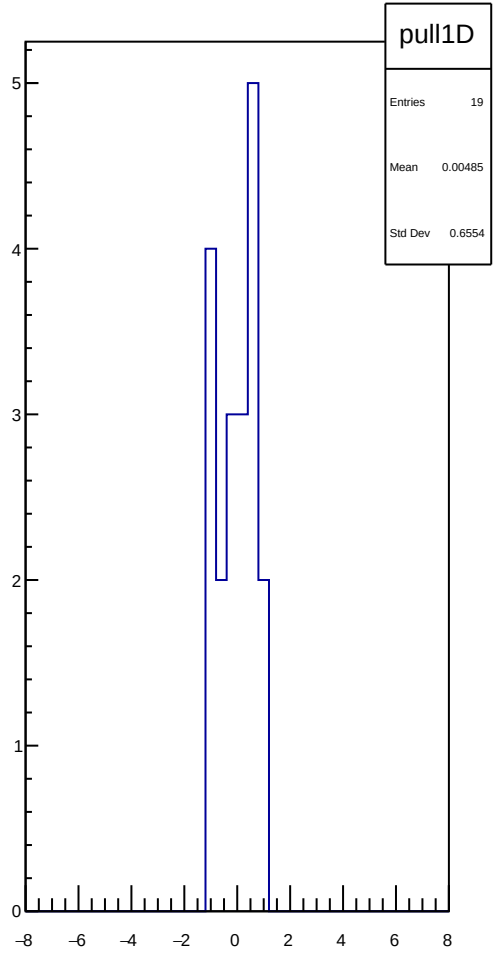

asym_sam7_mean vs run
χ² / ndf 7.139 / 18
p0 298.8 ± 905.4
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

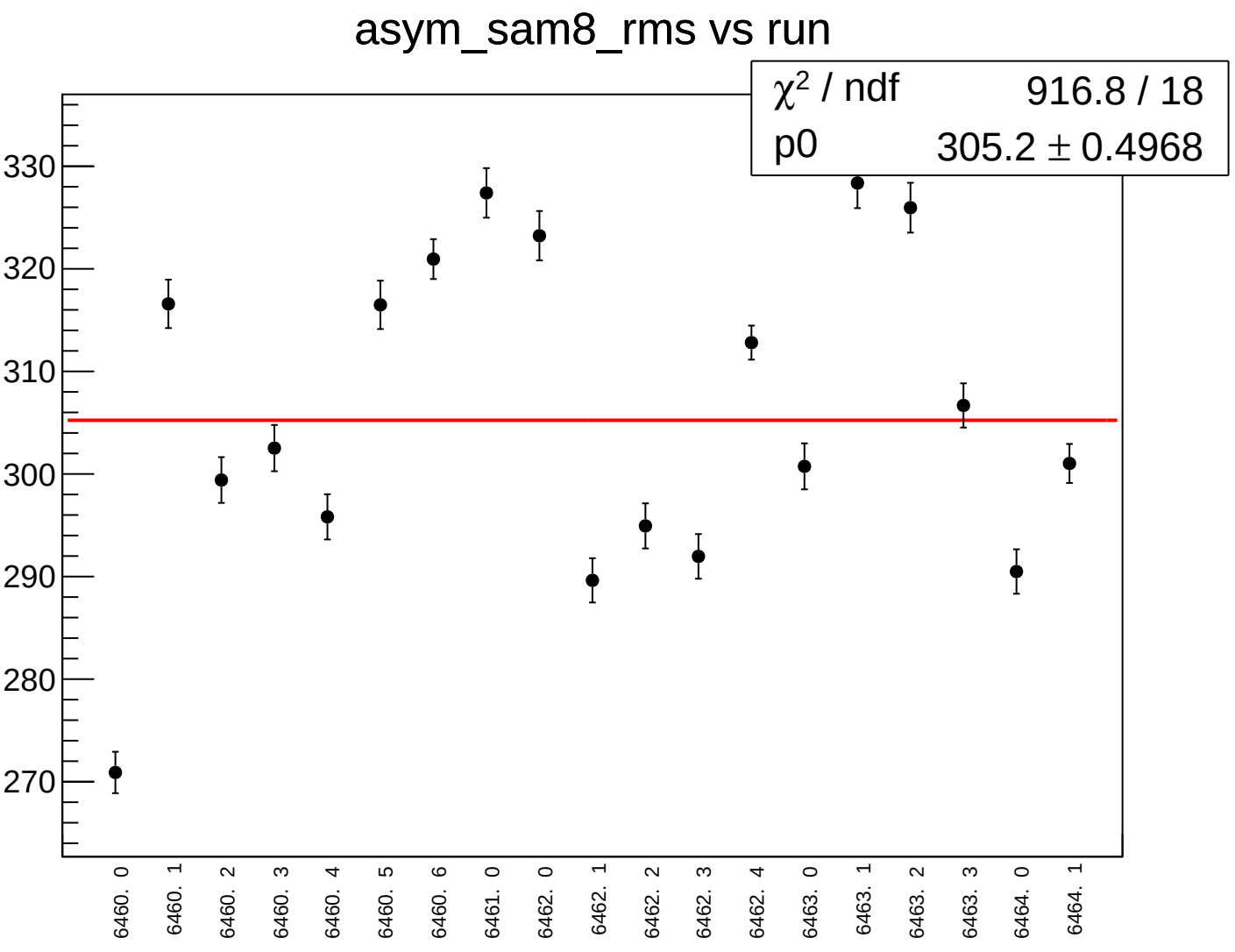

pull
Entries 19
Mean 1489
Std Dev 1487
1
0.5
0
−0.5
−1

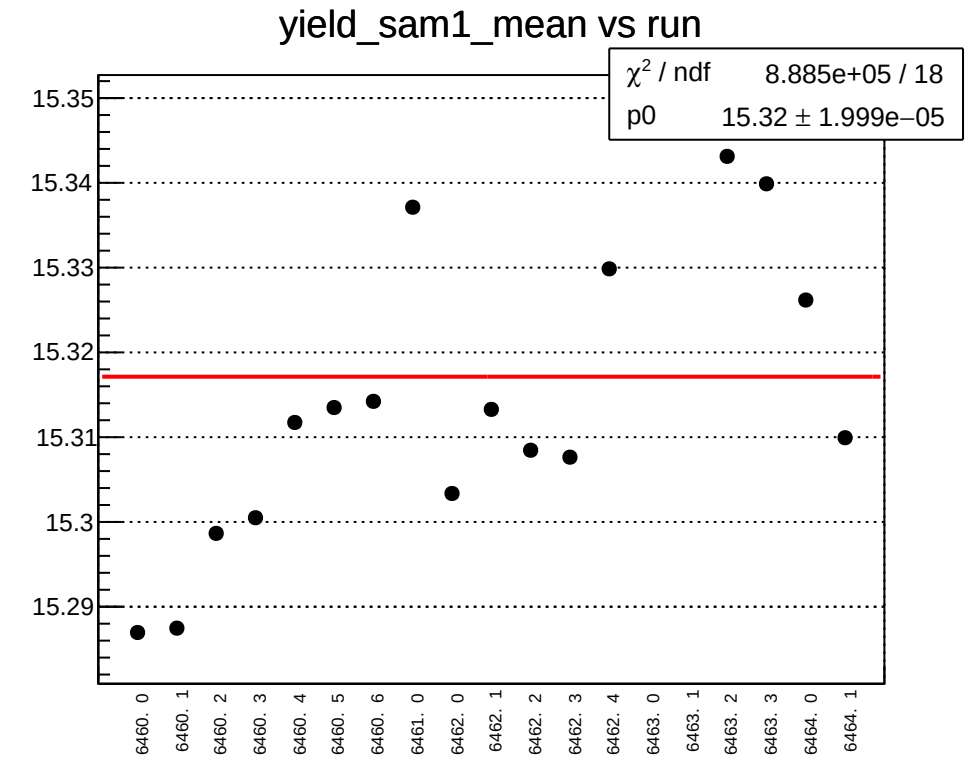

pull1D
Entries 19
Mean −0.0004608
Std Dev 0.613
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

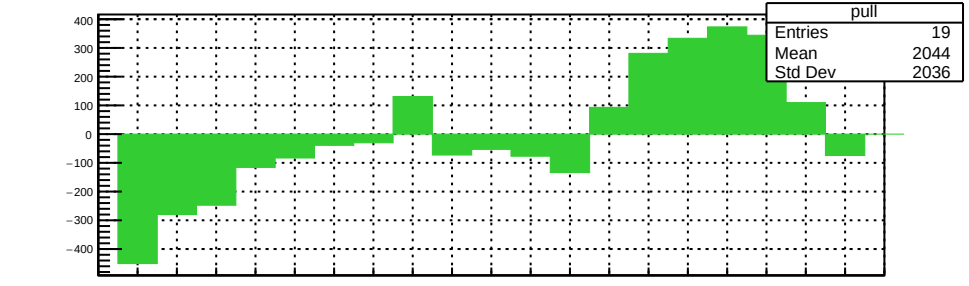

asym_sam7_rms vs run
χ² / ndf 1182 / 18
p0 393.2 ± 0.6402
440
420
400
380
360
340
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

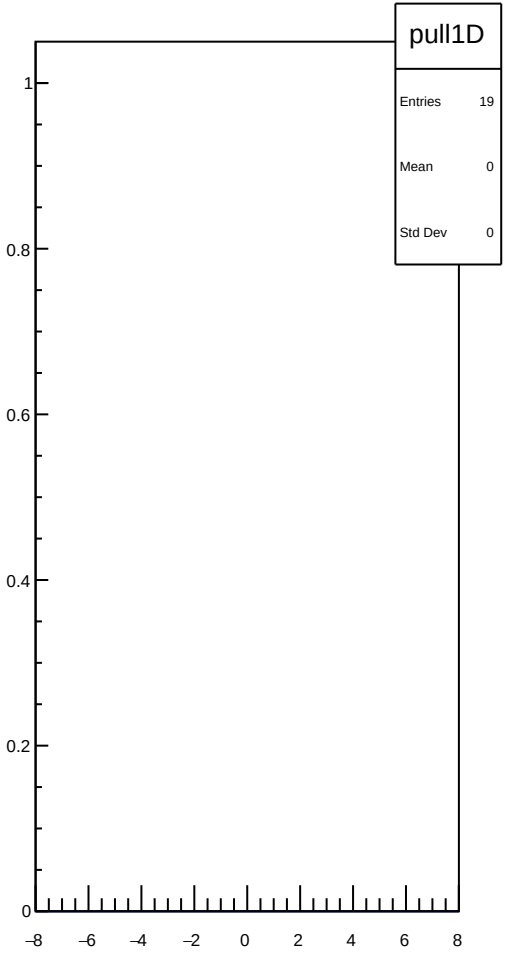

asym_sam8_mean vs run
χ² / ndf 8.163 / 18
p0 436.1 ± 702.6
6000
4000
2000
0
−2000
−4000
−6000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −252.1
Std Dev 257.6
1
0.5
0
−0.5
−1

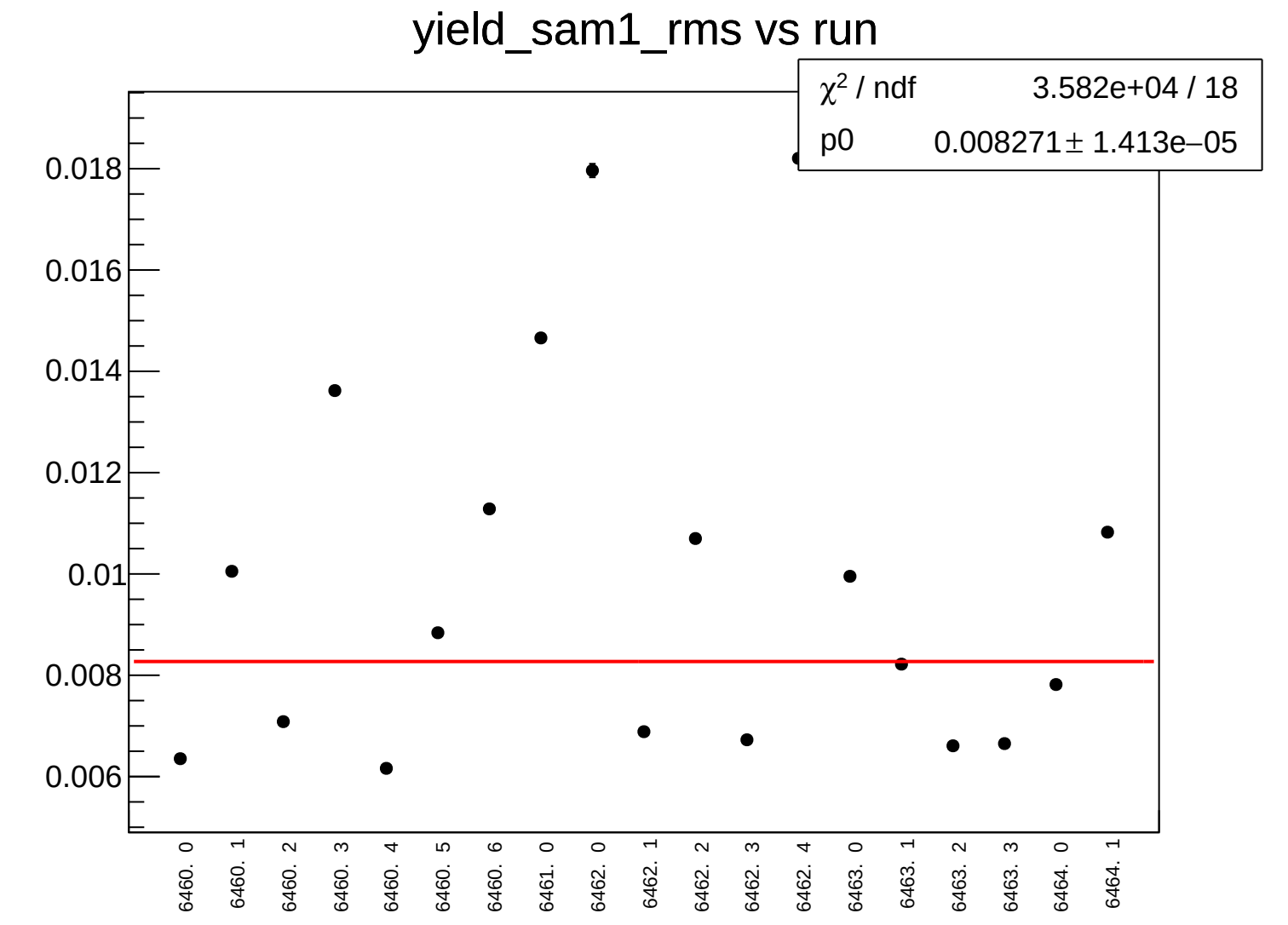

pull1D
Entries 19
Mean 0.00485
Std Dev 0.6554
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

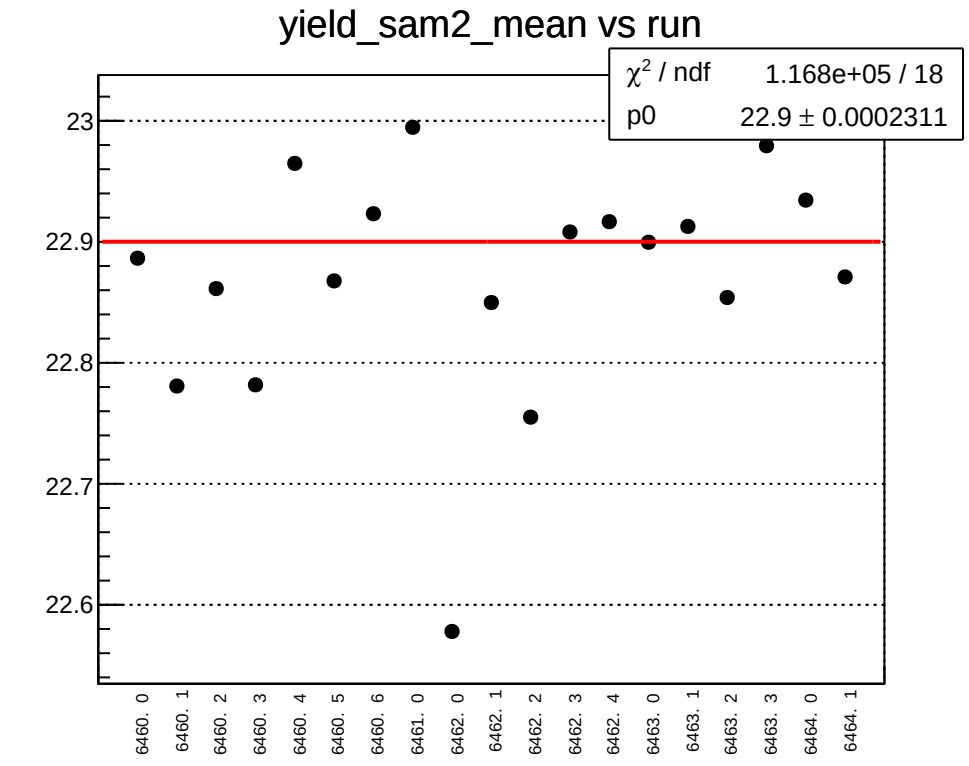

asym_sam8_rms vs run
χ^2 / ndf 916.8 / 18
p0 305.2 ± 0.4968
330
320
310
300
290
280
270
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

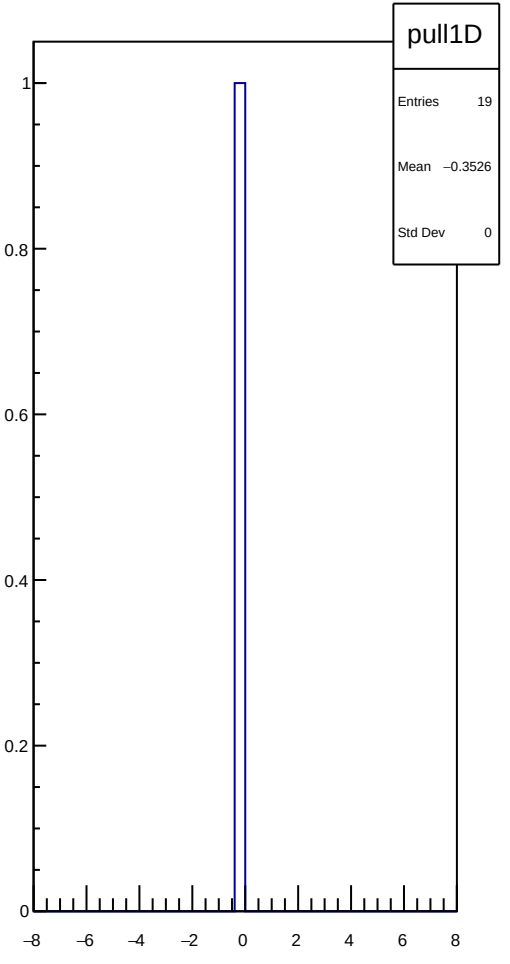

yield_sam1_mean vs run
χ² / ndf 8.885e+05 / 18
p0 15.32 ± 1.999e−05
15.35
15.34
15.33
15.32
15.31
15.3
15.29
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

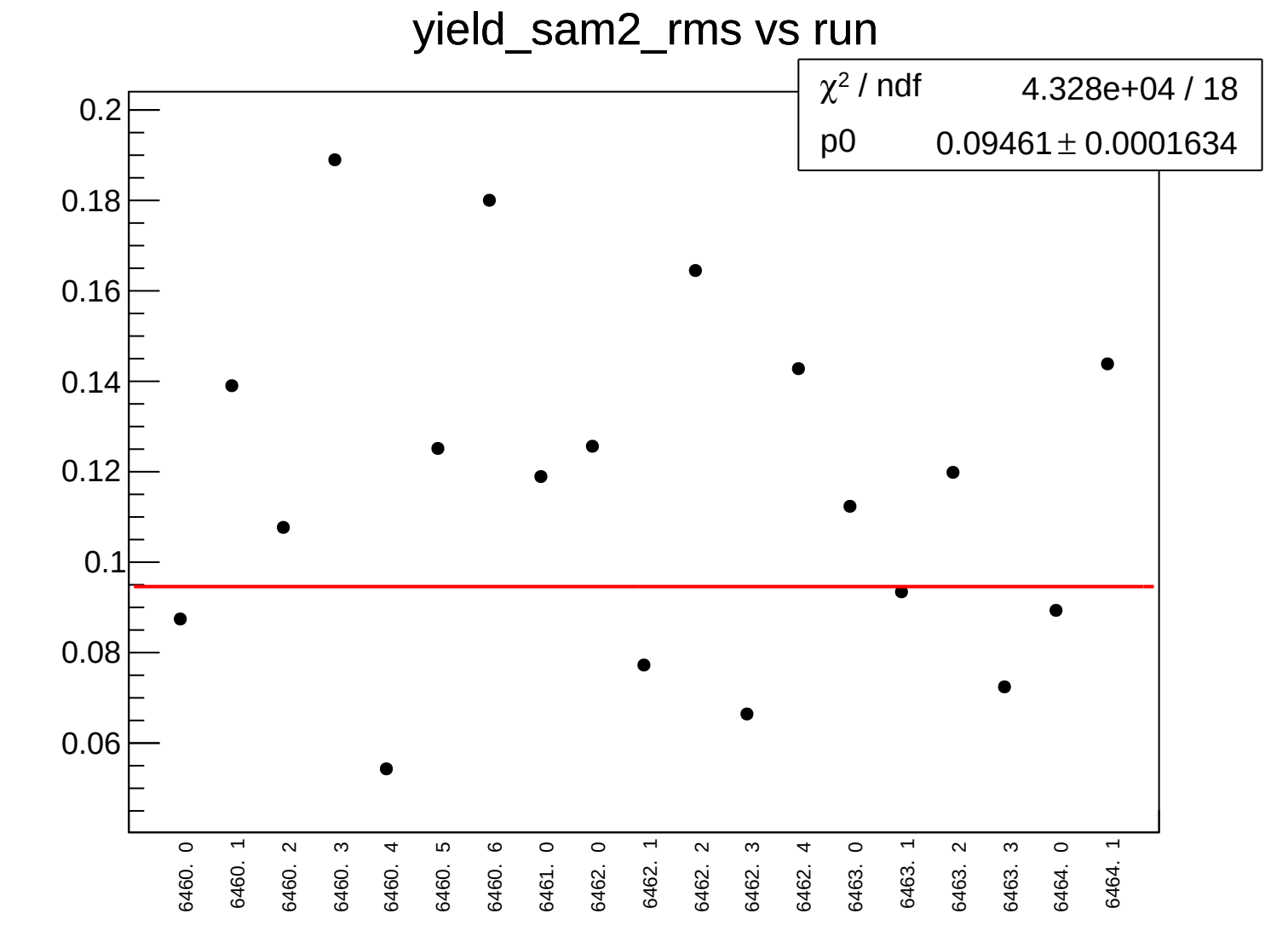

pull
Entries 19
Mean 2044
Std Dev 2036
400
300
200
100
0
−100
−200
−300
−400

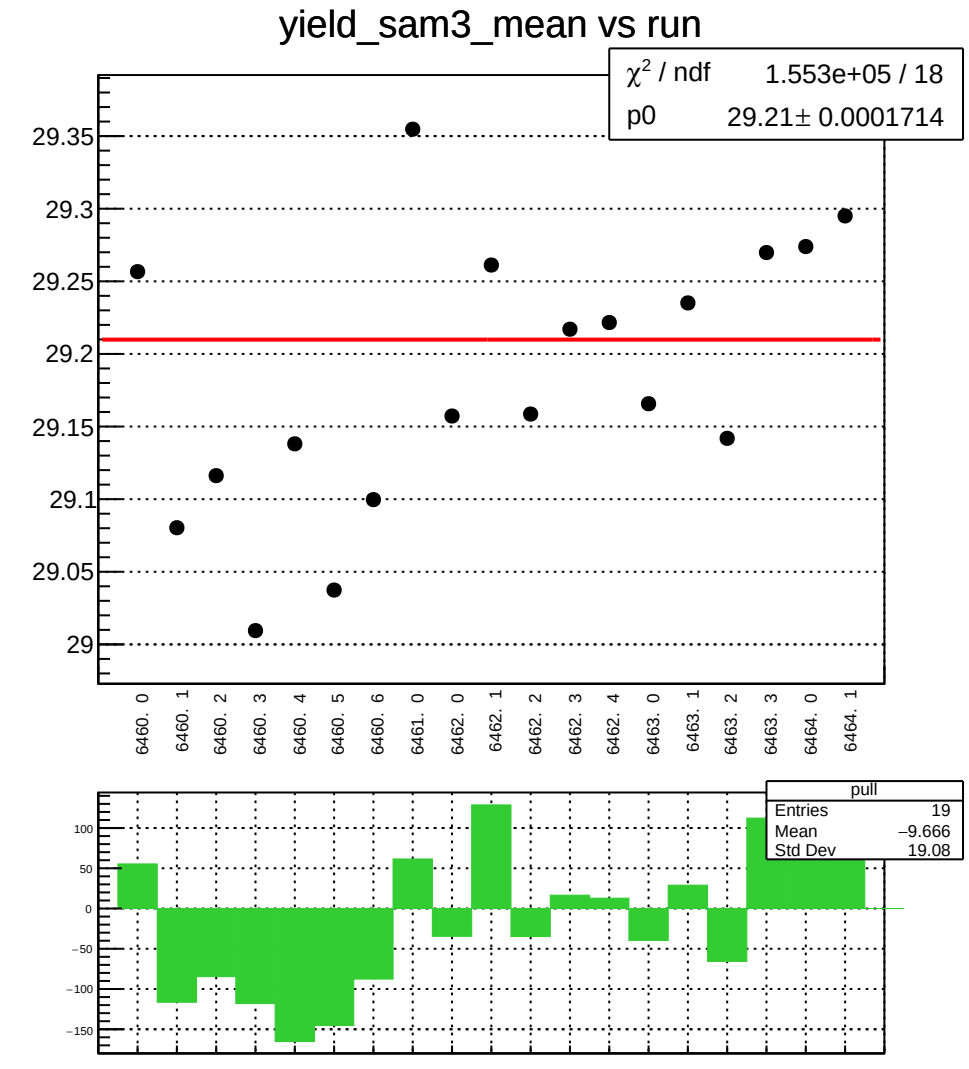

pull1D
Entries 19
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

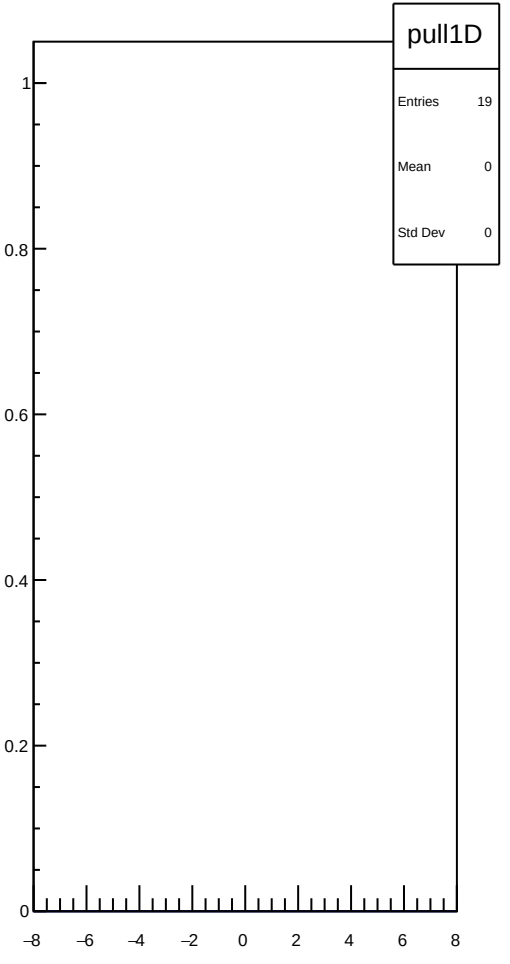

yield_sam1_rms vs run
χ² / ndf 3.582e+04 / 18
p0 0.008271 ± 1.413e−05
0.018
0.016
0.014
0.012
0.01
0.008
0.006
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

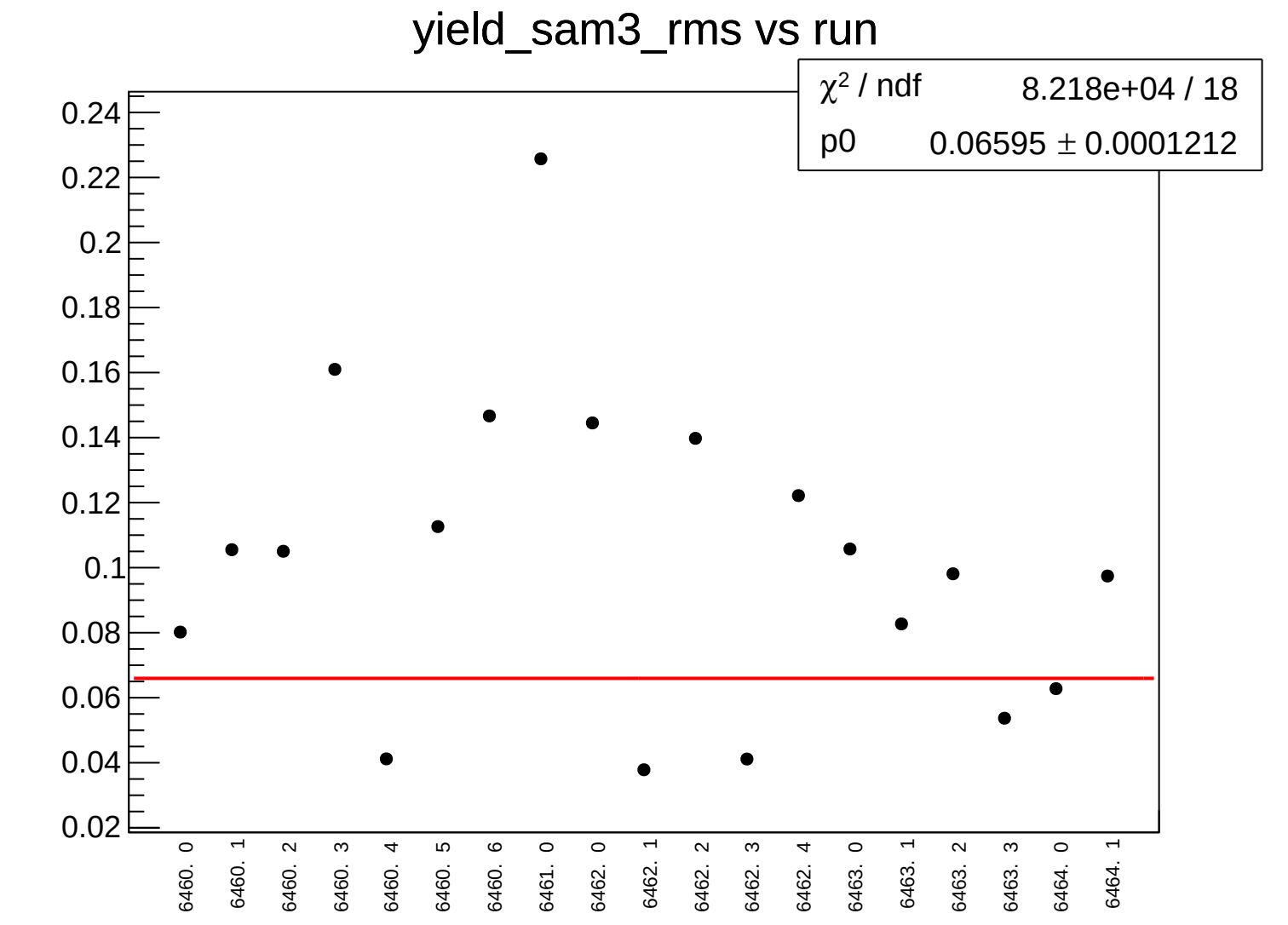

yield_sam2_mean vs run
χ² / ndf 1.168e+05 / 18
p0 22.9 ± 0.0002311
23
22.9
22.8
22.7
22.6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 3.432
Std Dev 5.227
100
50
0
−50
−100
−150
−200
−250

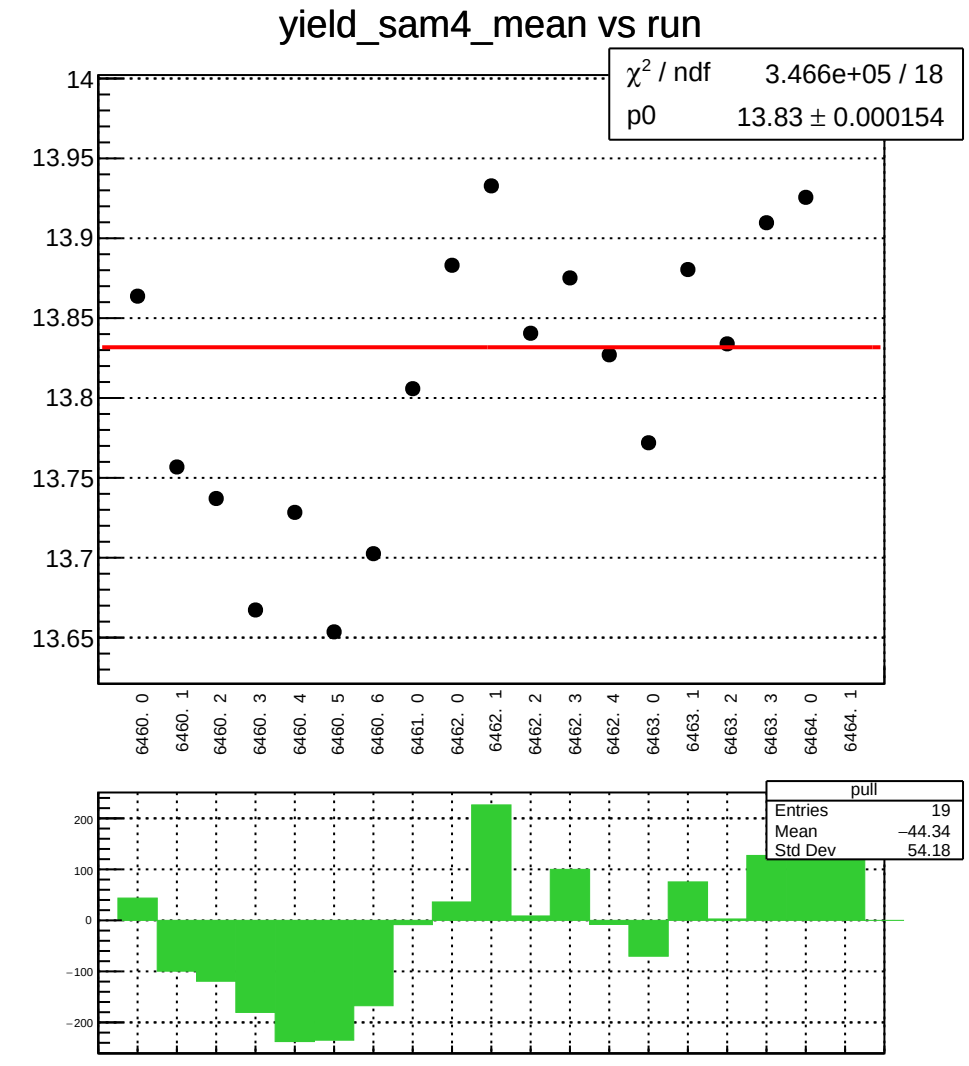

pull1D
Entries 19
Mean −0.3526
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

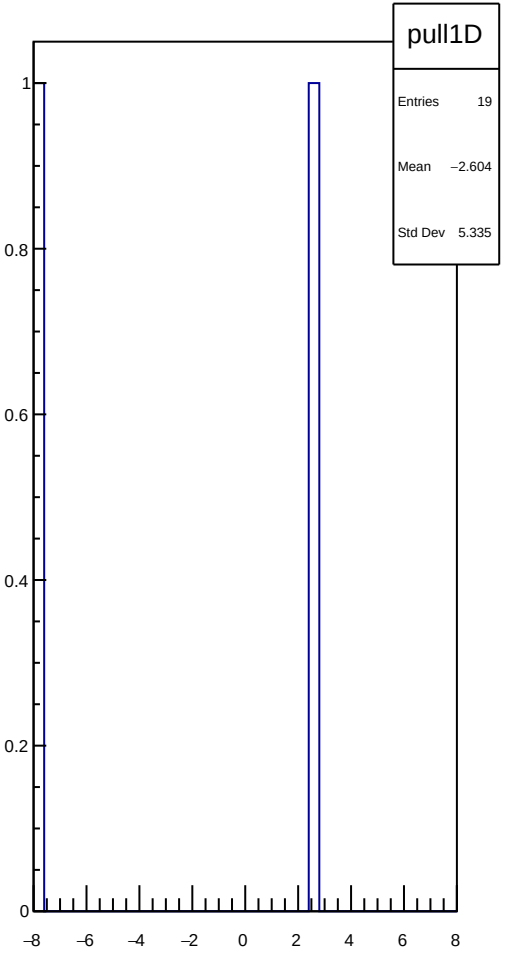

yield_sam2_rms vs run
χ² / ndf 4.328e+04 / 18
p0 0.09461 ± 0.0001634
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

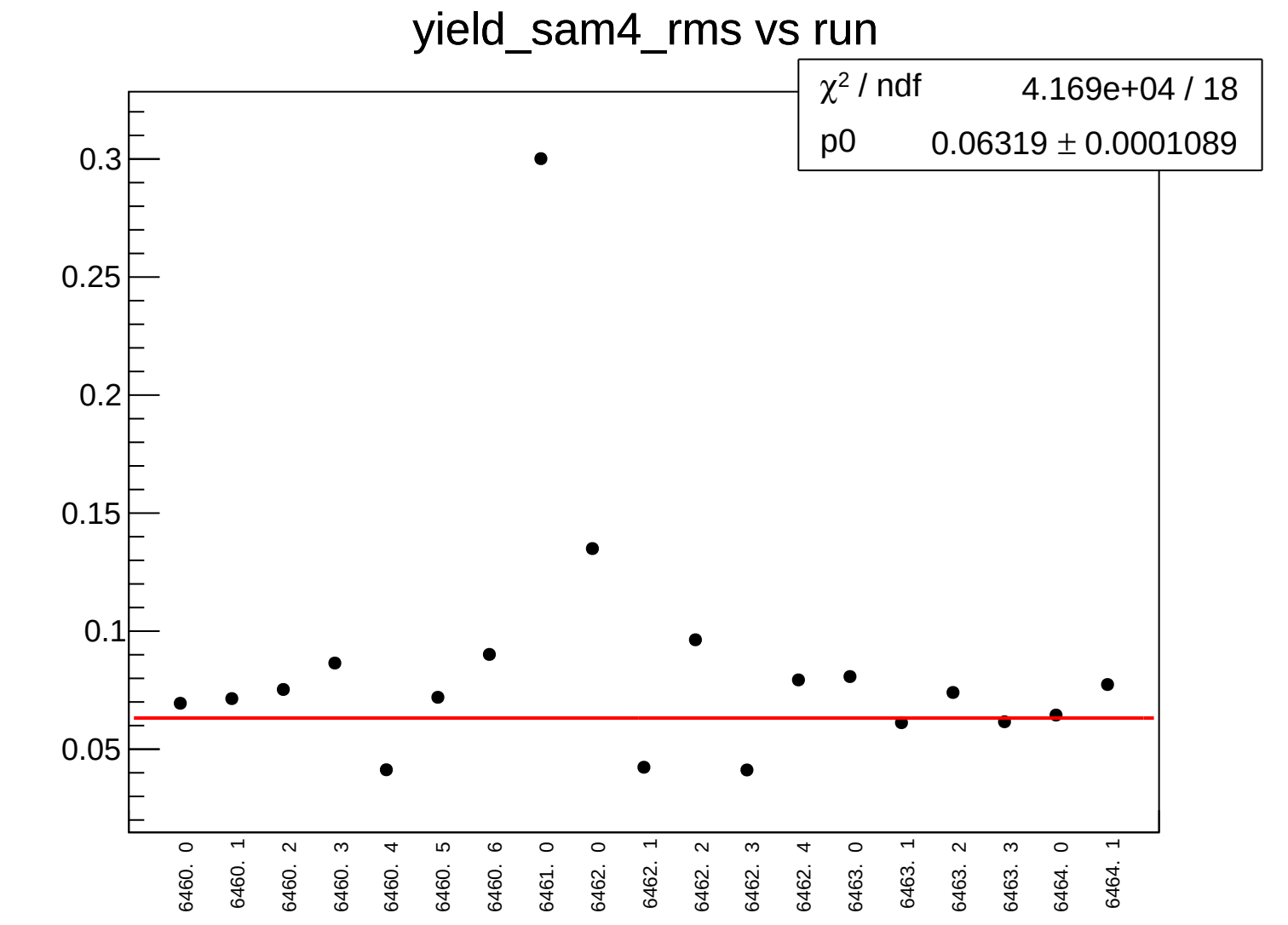

yield_sam3_mean vs run
χ² / ndf 1.553e+05 / 18
p0 29.21± 0.0001714
29.35
29.3
29.25
29.2
29.15
29.1
29.05
29
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean –9.666
Std Dev 19.08
100
50
0
–50
–100
–150

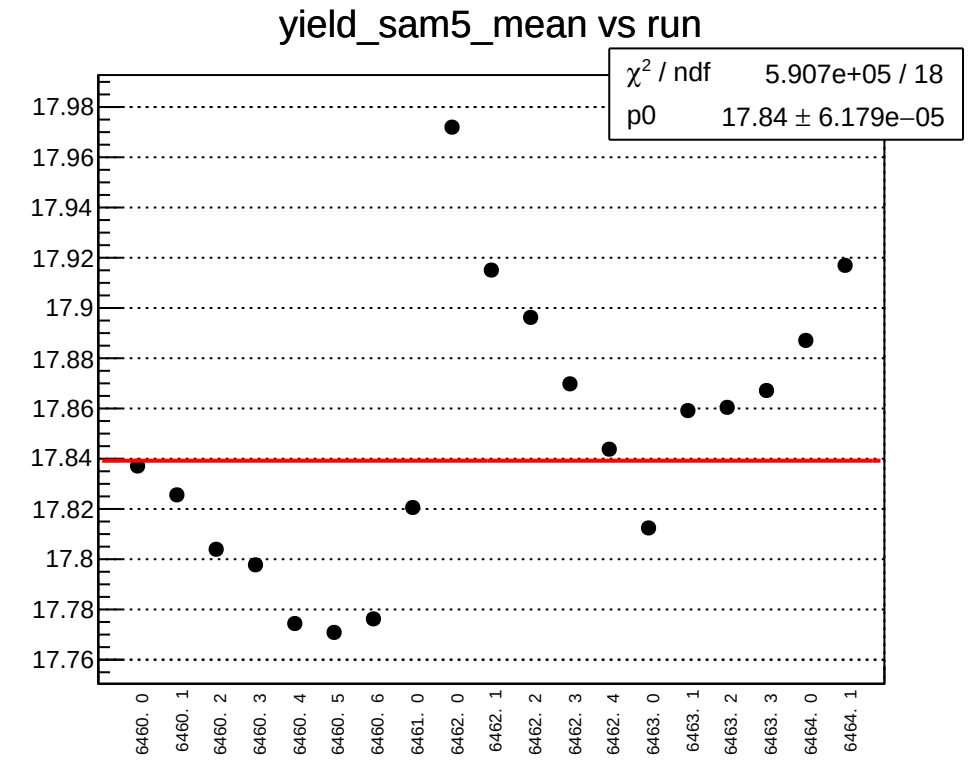

pull1D
Entries 19
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

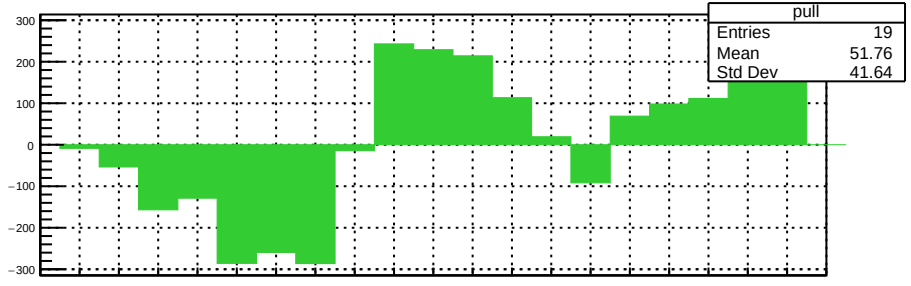

yield_sam3_rms vs run
χ² / ndf 8.218e+04 / 18
p0 0.06595 ± 0.0001212
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

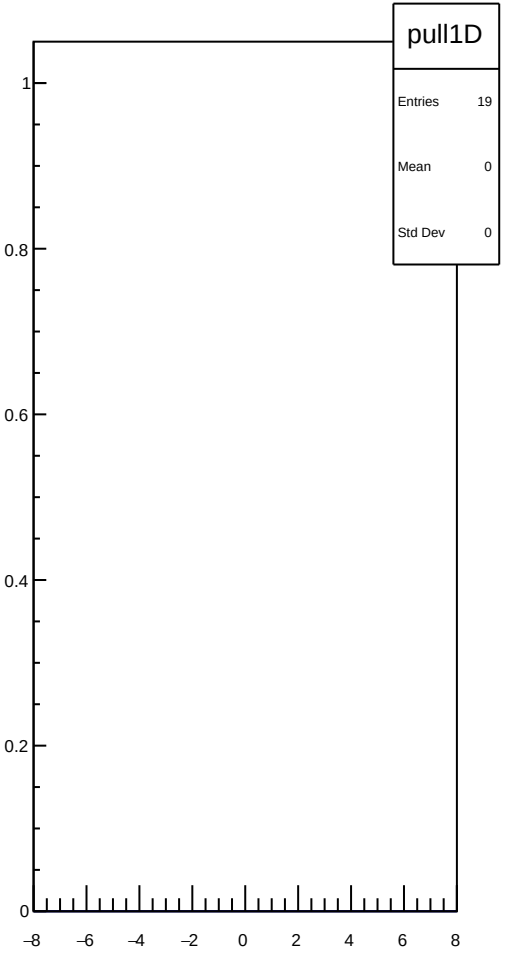

yield_sam4_mean vs run
χ² / ndf 3.466e+05 / 18
p0 13.83 ± 0.000154
14
13.95
13.9
13.85
13.8
13.75
13.7
13.65
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −44.34
Std Dev 54.18
200
100
0
−100
−200

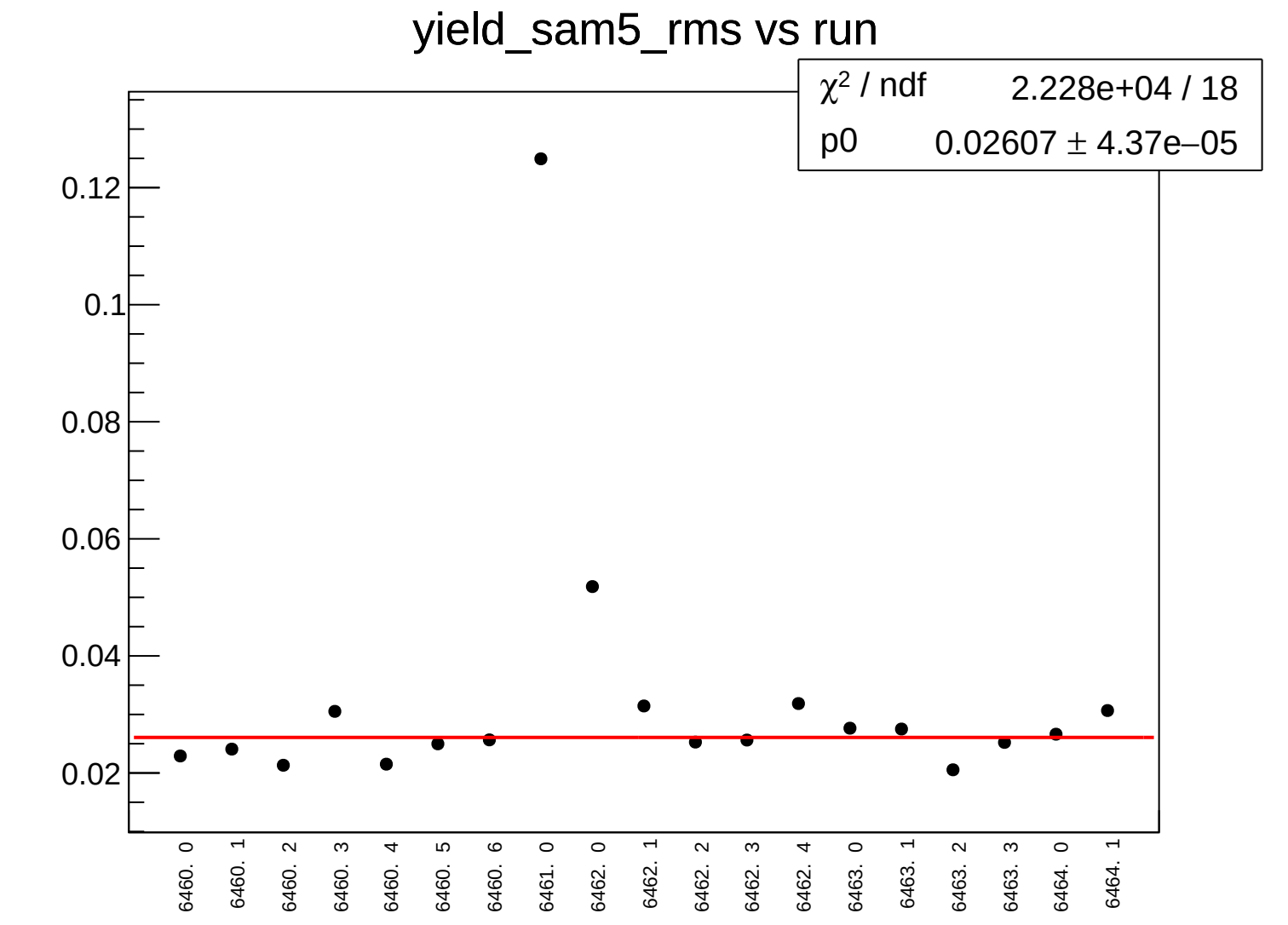

pull1D
Entries 19
Mean −2.604
Std Dev 5.335
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

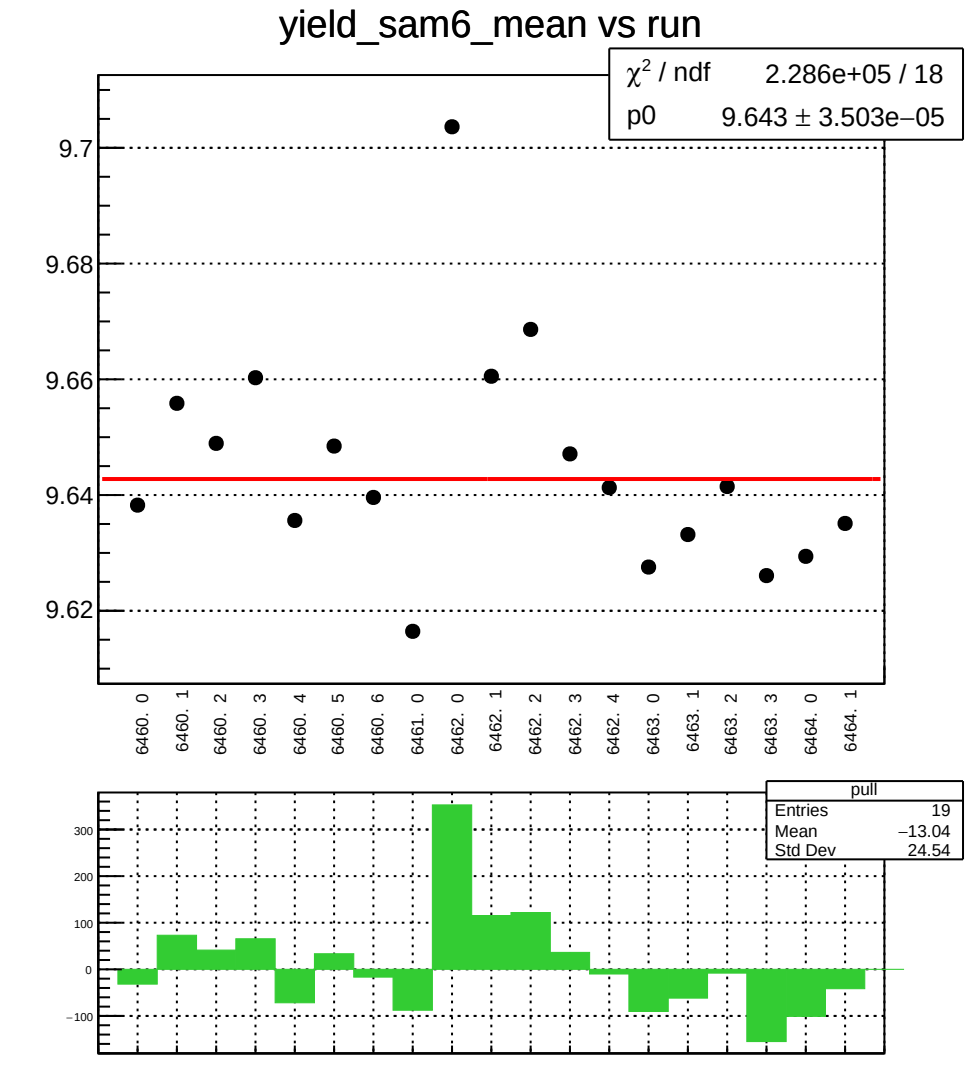

yield_sam4_rms vs run
χ² / ndf 4.169e+04 / 18
p0 0.06319 ± 0.0001089
0.3
0.25
0.2
0.15
0.1
0.05
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

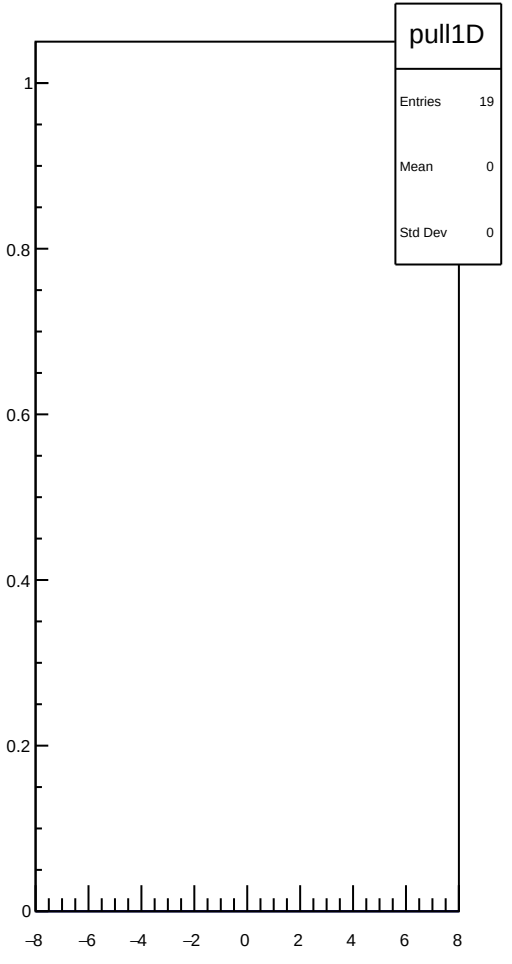

yield_sam5_mean vs run
χ² / ndf 5.907e+05 / 18
p0 17.84 ± 6.179e−05
17.98
17.96
17.94
17.92
17.9
17.88
17.86
17.84
17.82
17.8
17.78
17.76
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

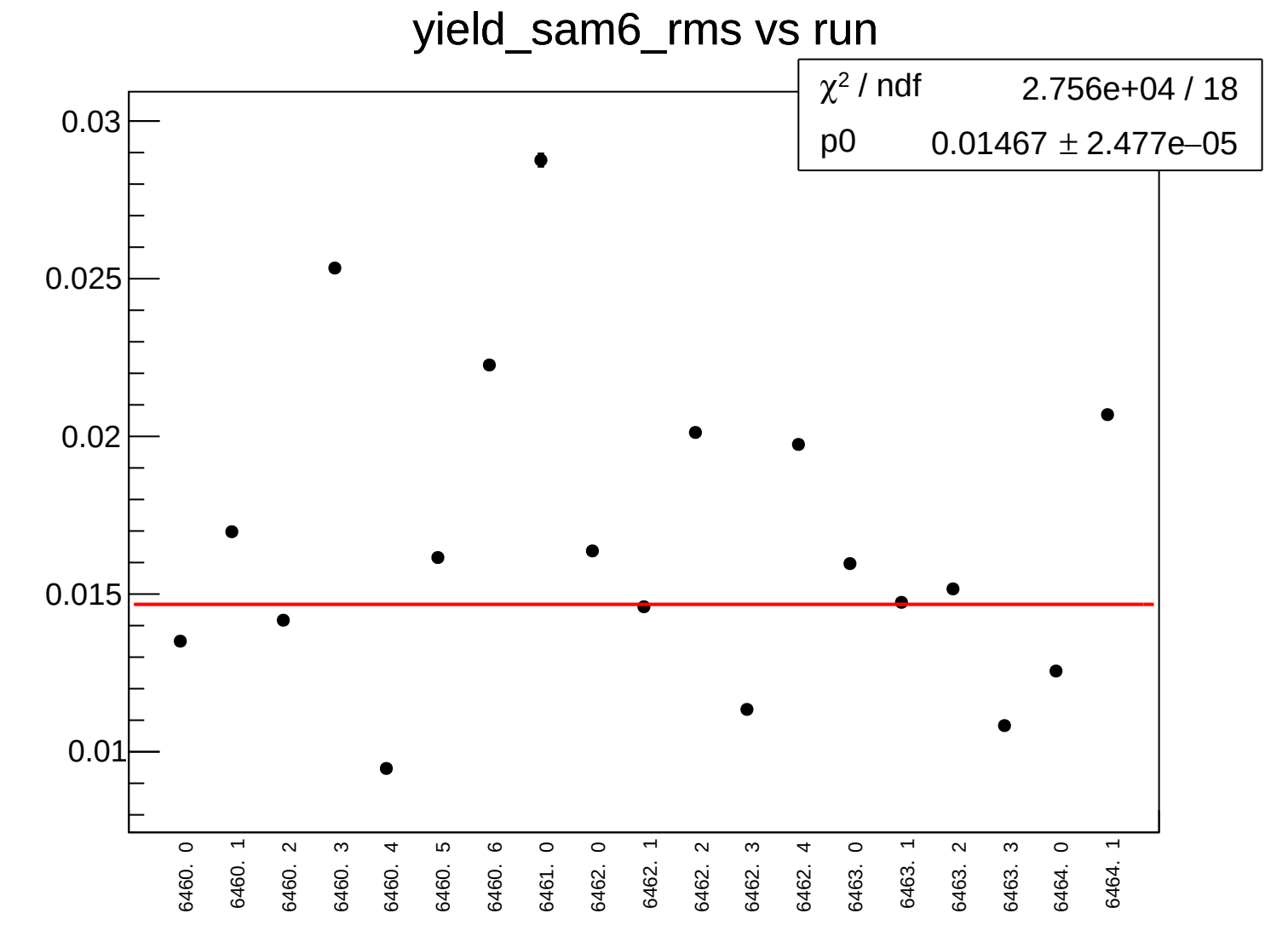

pull
Entries 19
Mean 51.76
Std Dev 41.64
300
200
100
0
−100
−200
−300

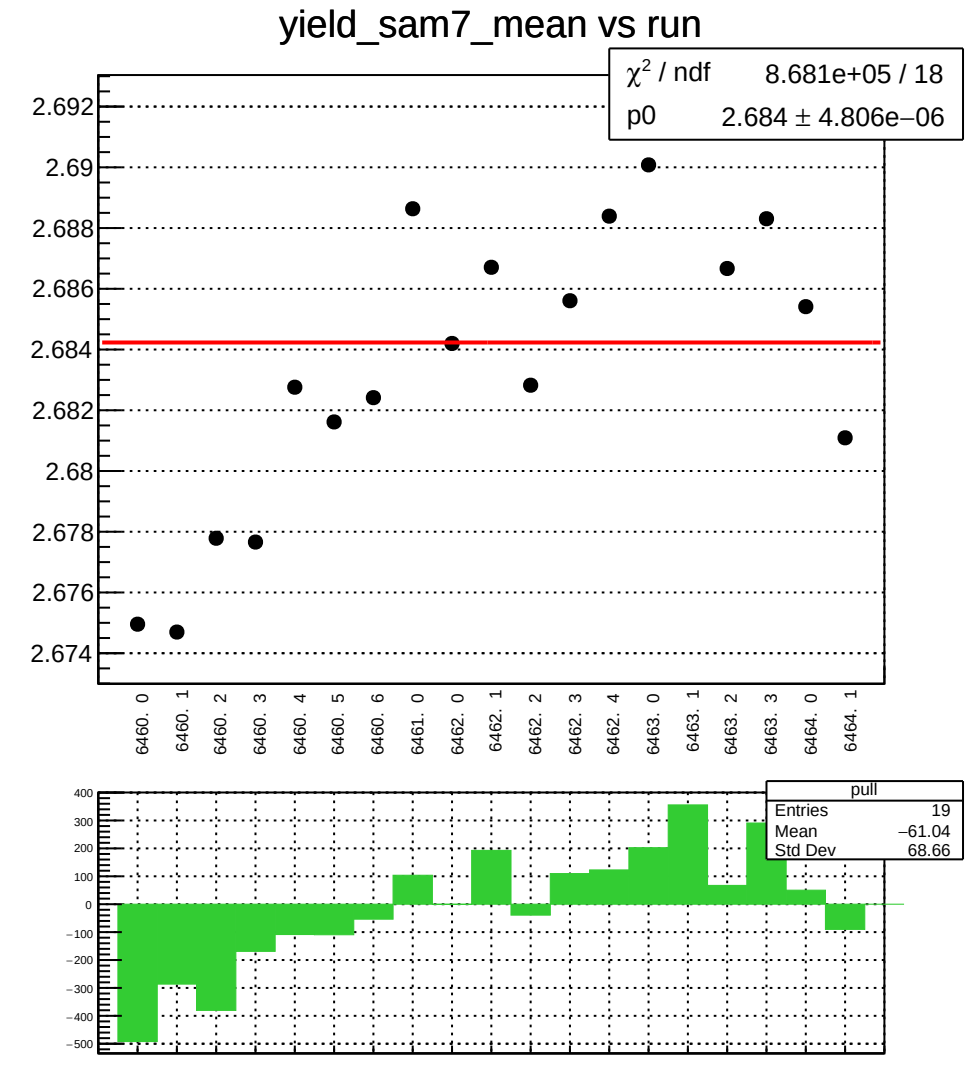

pull1D
Entries 19
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

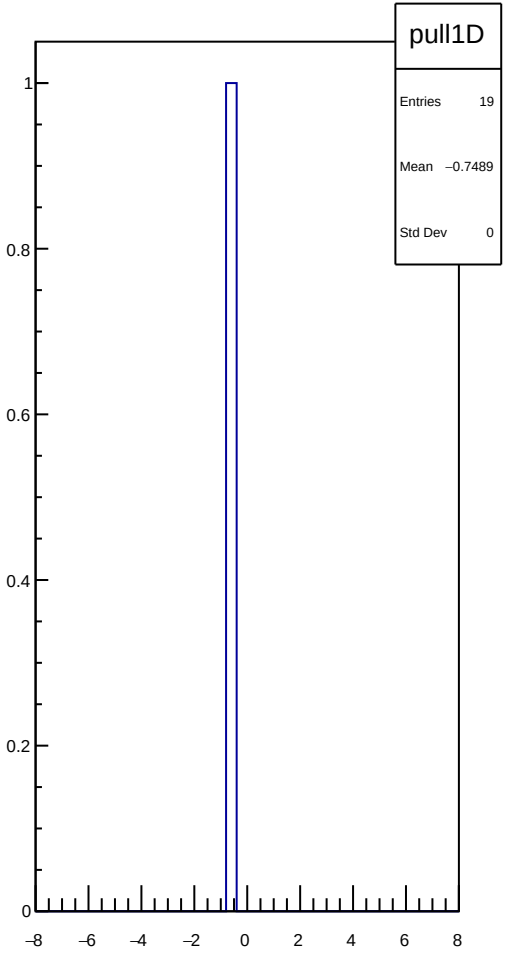

yield_sam5_rms vs run
χ² / ndf 2.228e+04 / 18
p0 0.02607 ± 4.37e−05
0.12
0.1
0.08
0.06
0.04
0.02
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

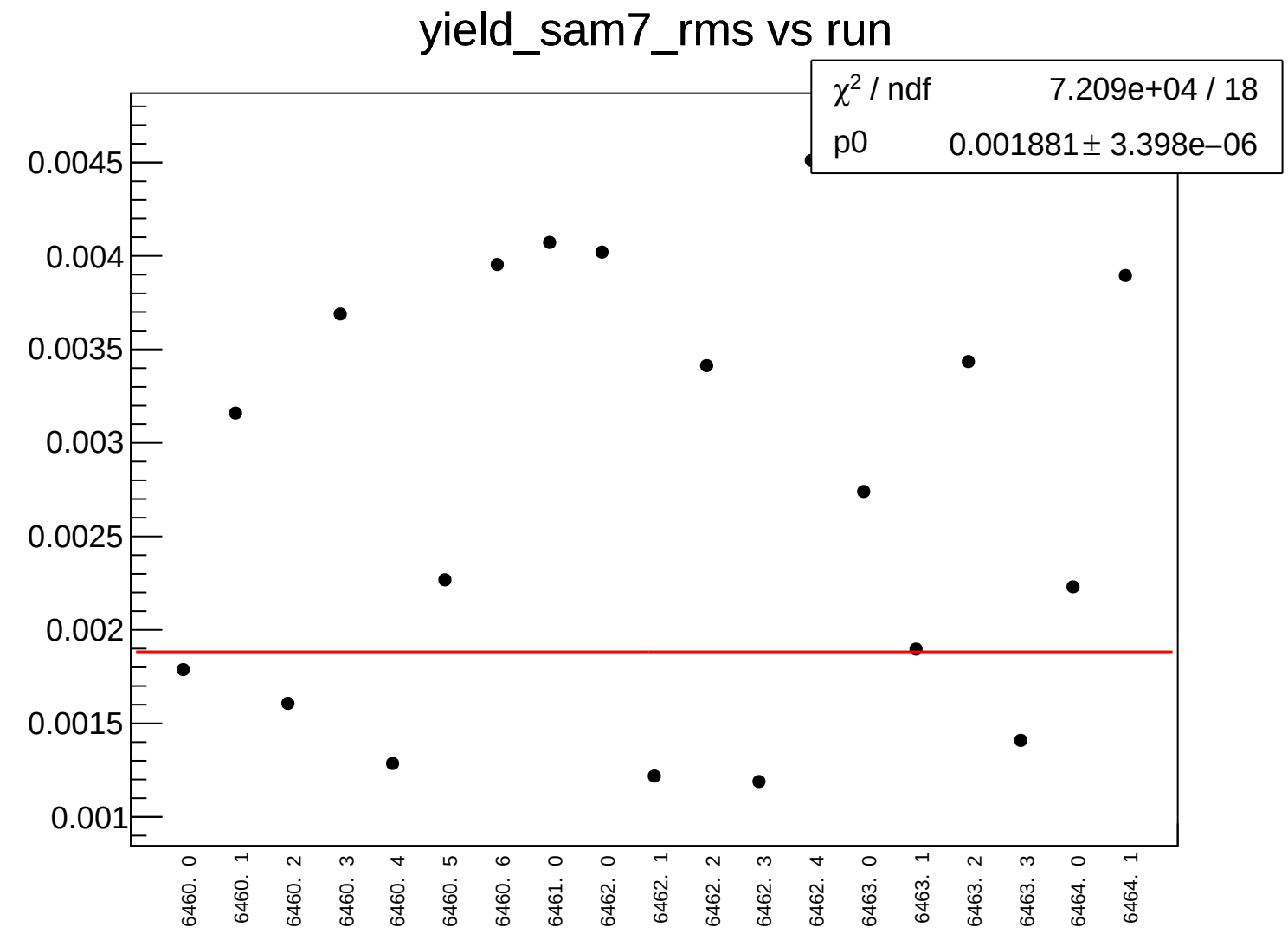

yield_sam6_mean vs run
χ² / ndf 2.286e+05 / 18
p0 9.643 ± 3.503e−05
9.7
9.68
9.66
9.64
9.62
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −13.04
Std Dev 24.54
300
200
100
0
−100

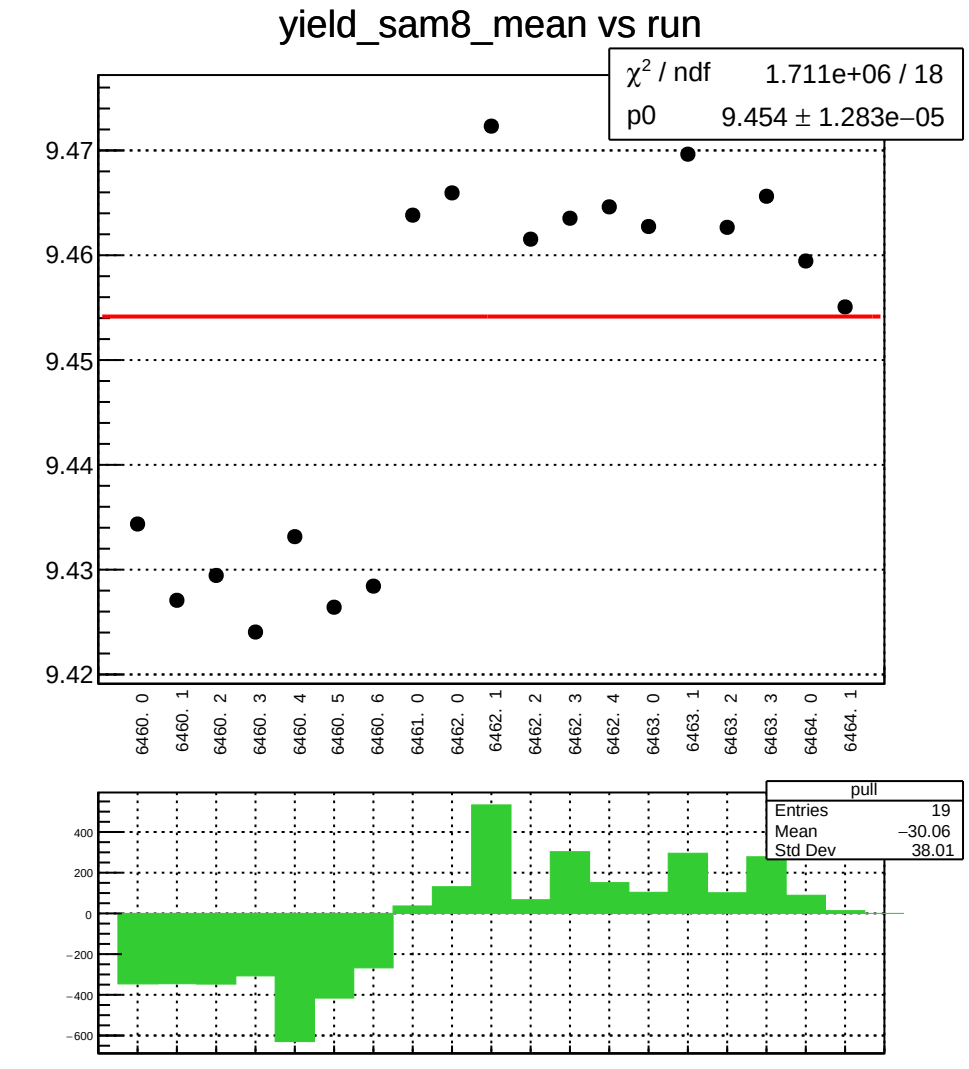

pull1D
Entries 19
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

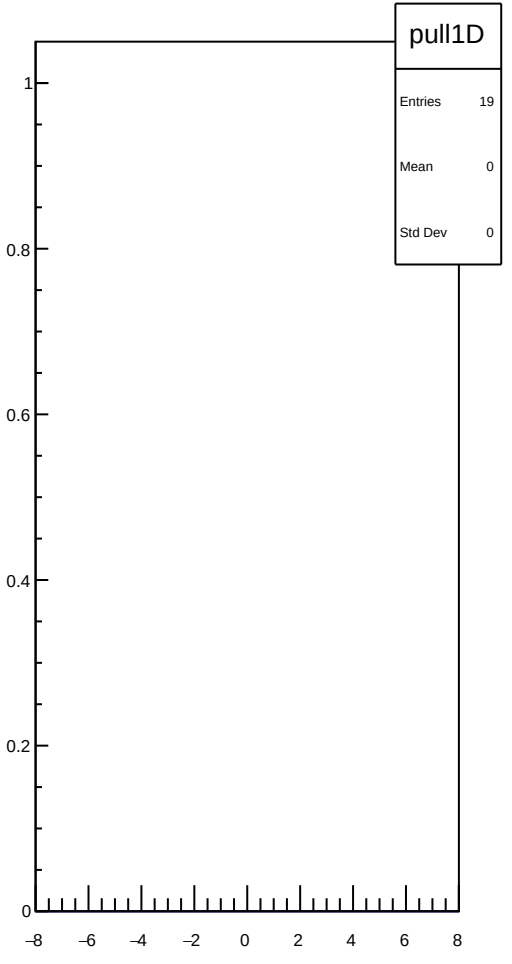

yield_sam6_rms vs run
χ² / ndf 2.756e+04 / 18
p0 0.01467 ± 2.477e–05
0.03
0.025
0.02
0.015
0.01
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

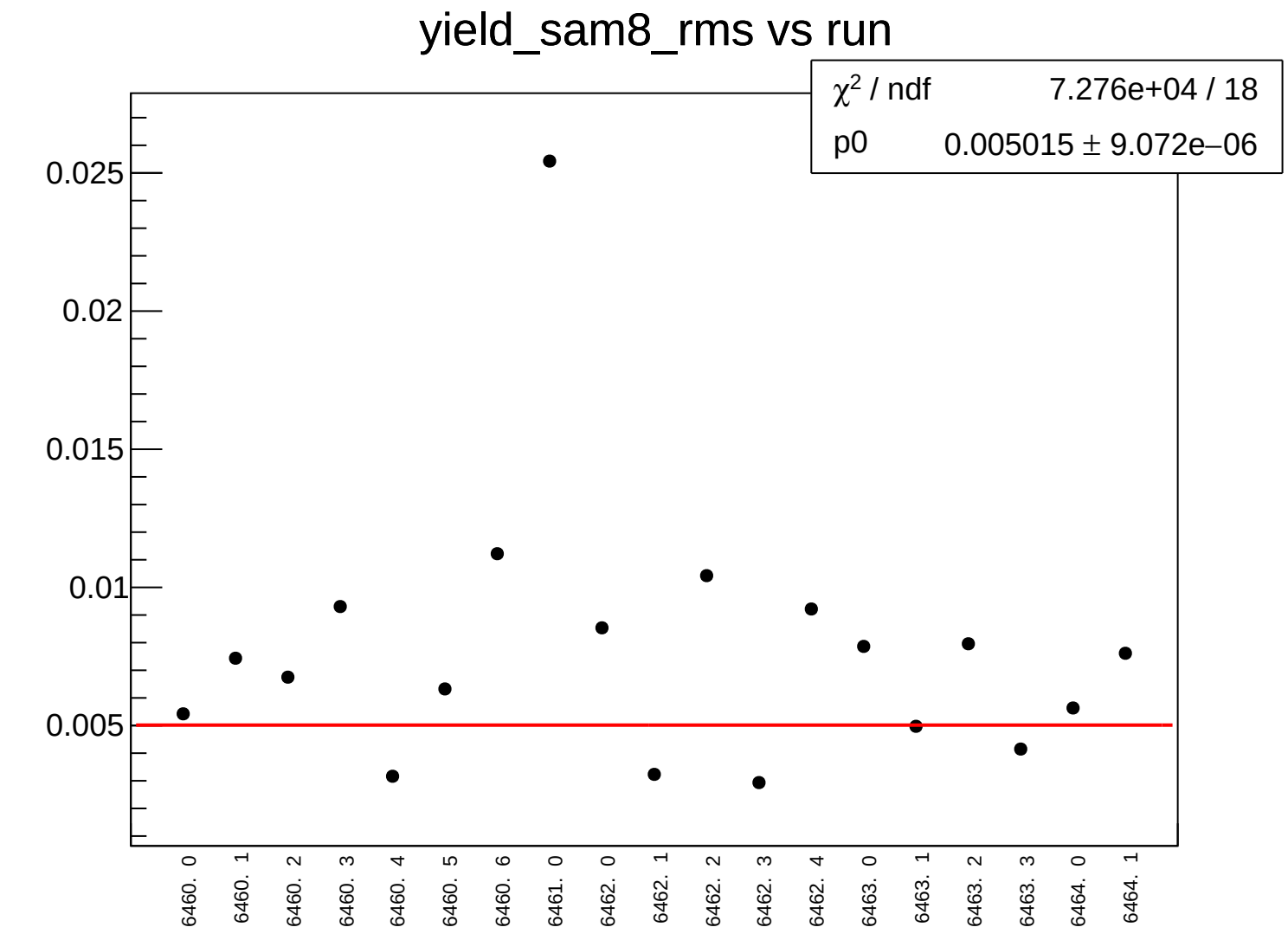

yield_sam7_mean vs run
χ² / ndf 8.681e+05 / 18
p0 2.684 ± 4.806e−06
2.692
2.69
2.688
2.686
2.684
2.682
2.68
2.678
2.676
2.674
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −61.04
Std Dev 68.66
400
300
200
100
0
−100
−200
−300
−400
−500

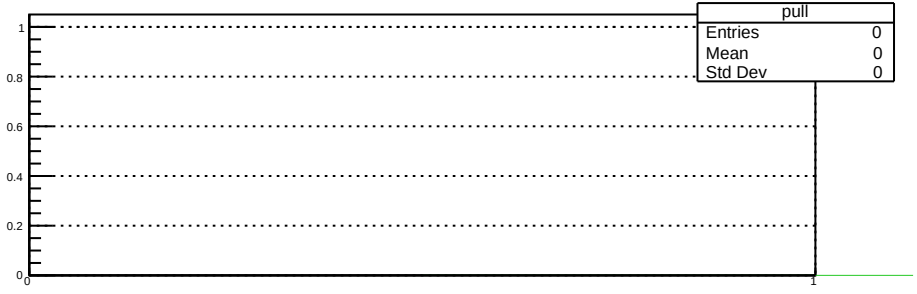

pull1D
Entries 19
Mean −0.7489
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

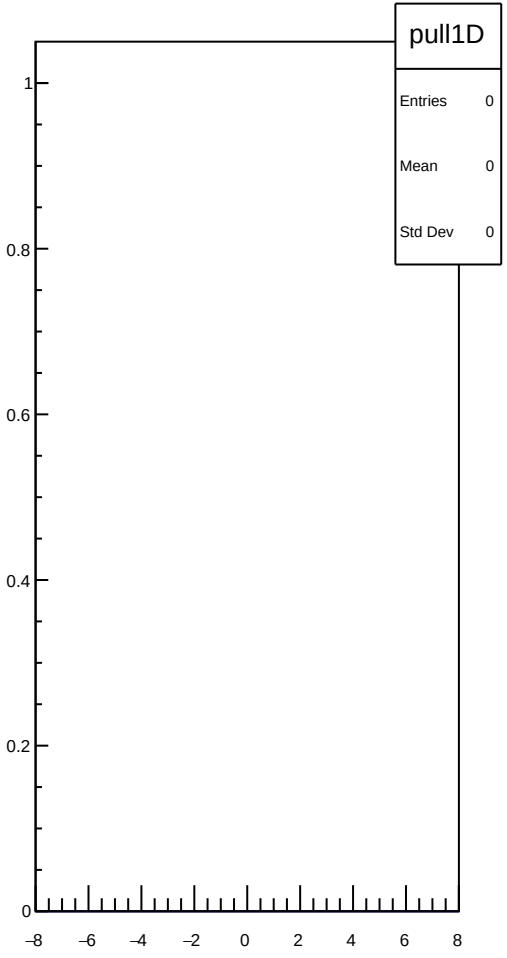

yield_sam7_rms vs run
χ² / ndf 7.209e+04 / 18
p0 0.001881 ± 3.398e−06
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

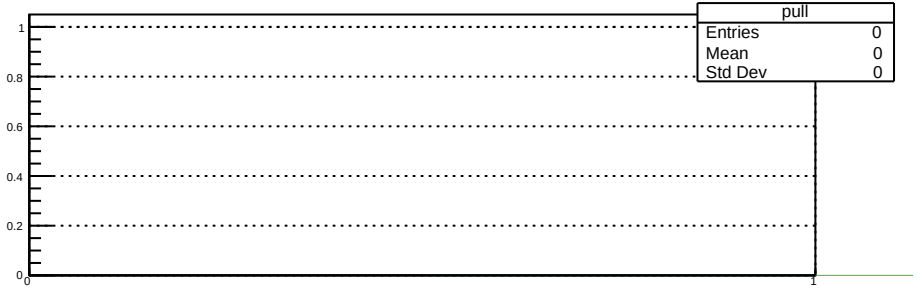

yield_sam8_mean vs run
χ² / ndf 1.711e+06 / 18
p0 9.454 ± 1.283e−05
9.47
9.46
9.45
9.44
9.43
9.42
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −30.06
Std Dev 38.01
400
200
0
−200
−400
−600

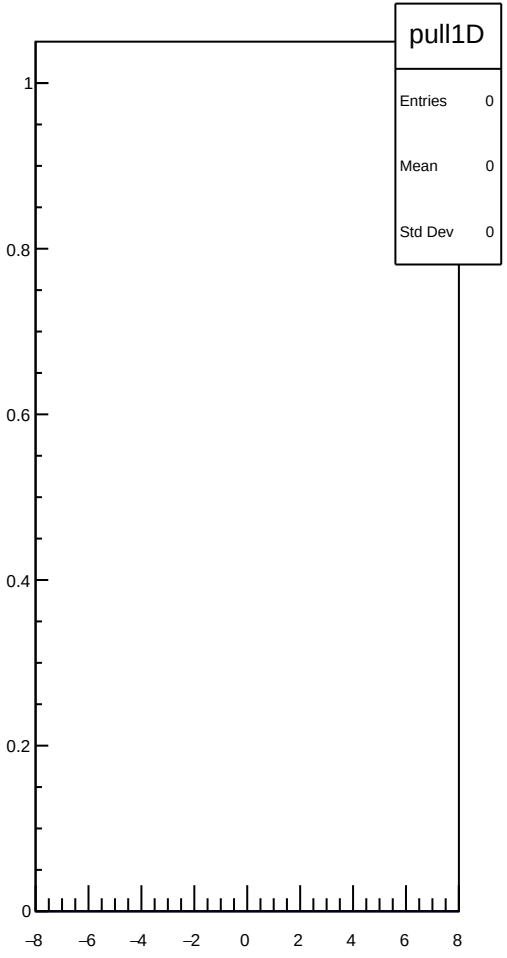

pull1D
Entries 19
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

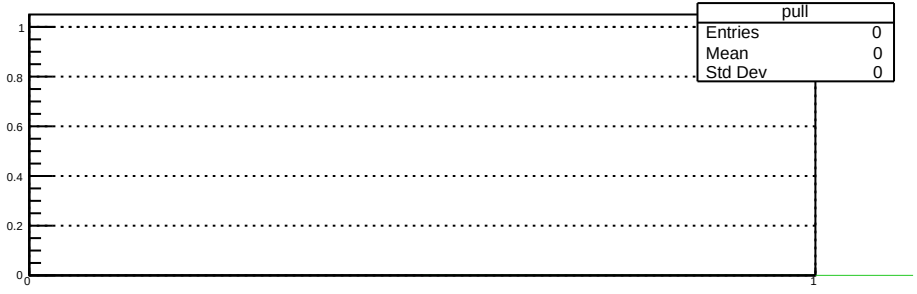

yield_sam8_rms vs run
χ² / ndf 7.276e+04 / 18
p0 0.005015 ± 9.072e−06
0.025
0.02
0.015
0.01
0.005
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

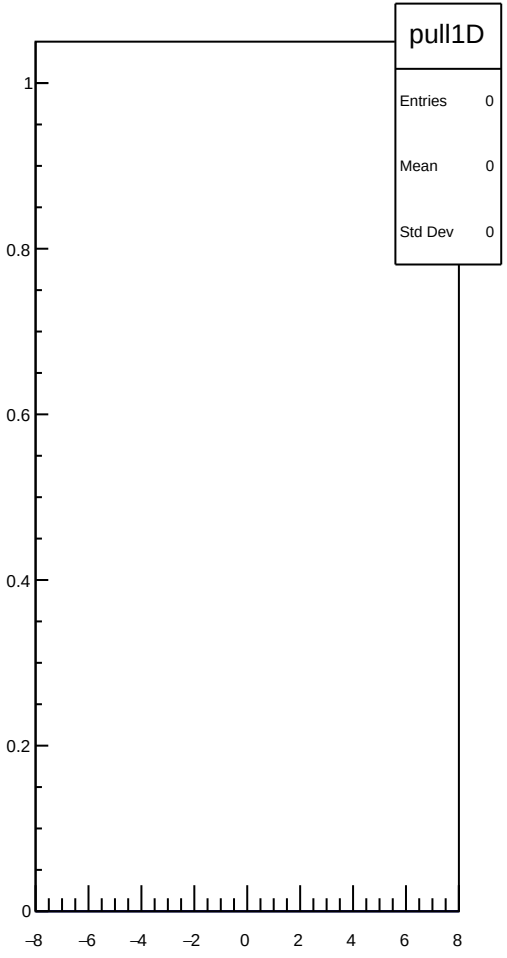

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

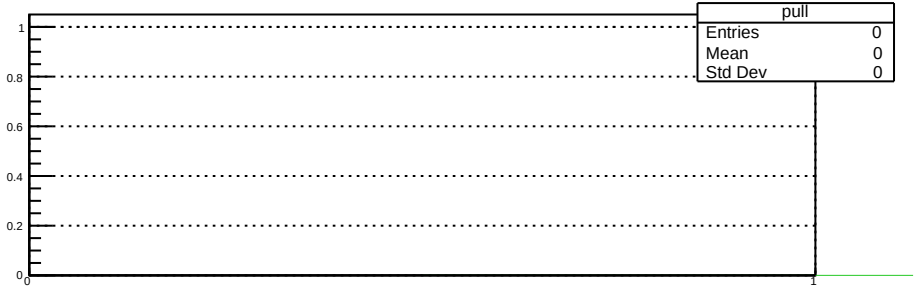

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

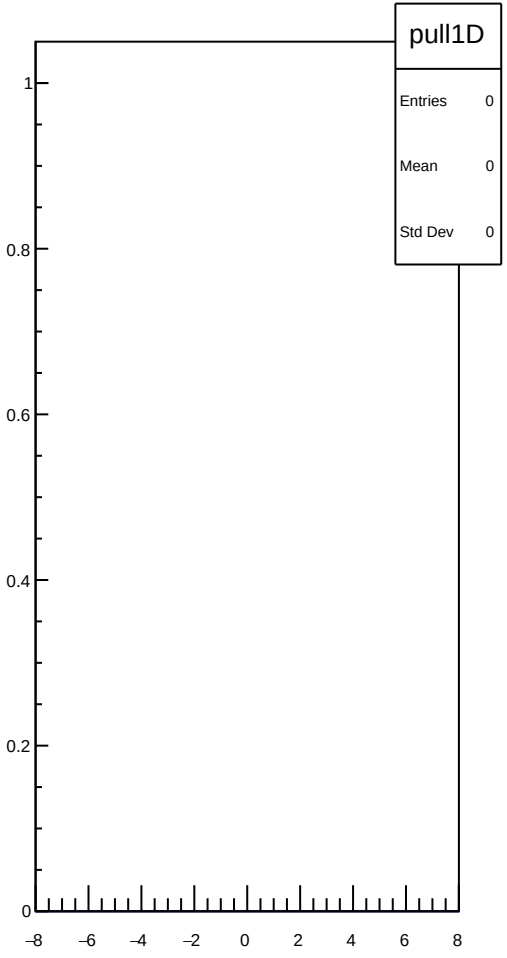

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

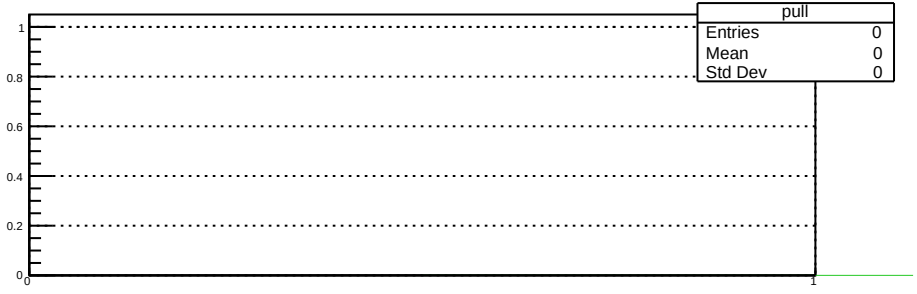

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

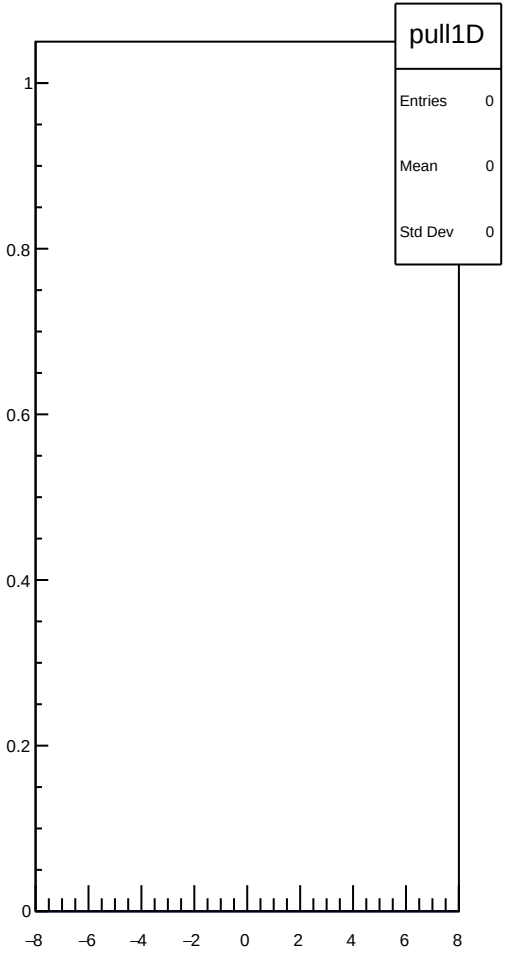

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

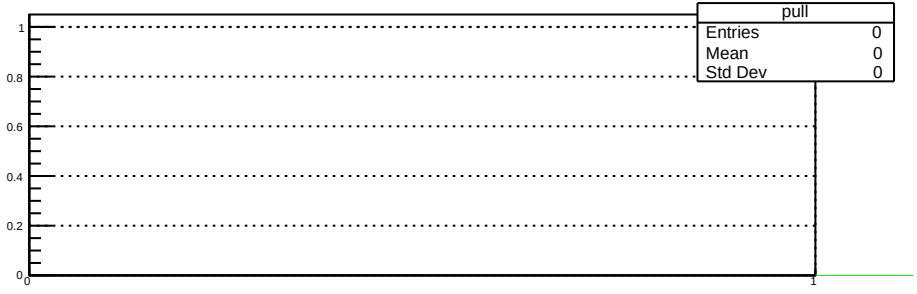

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

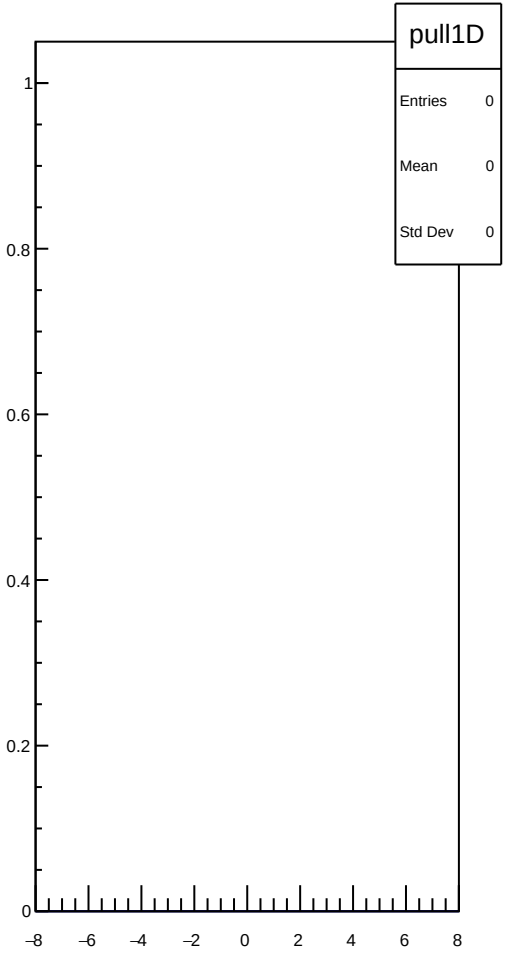

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

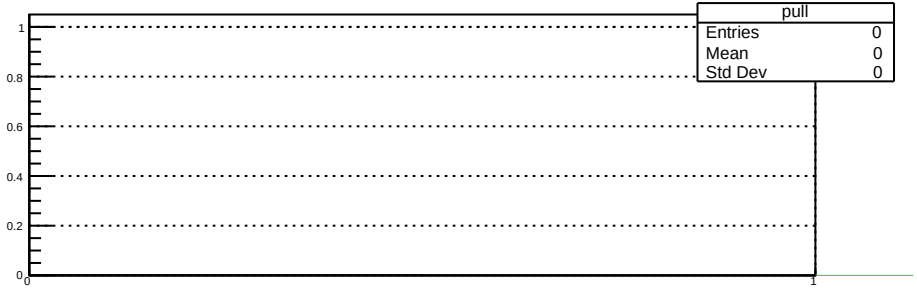

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

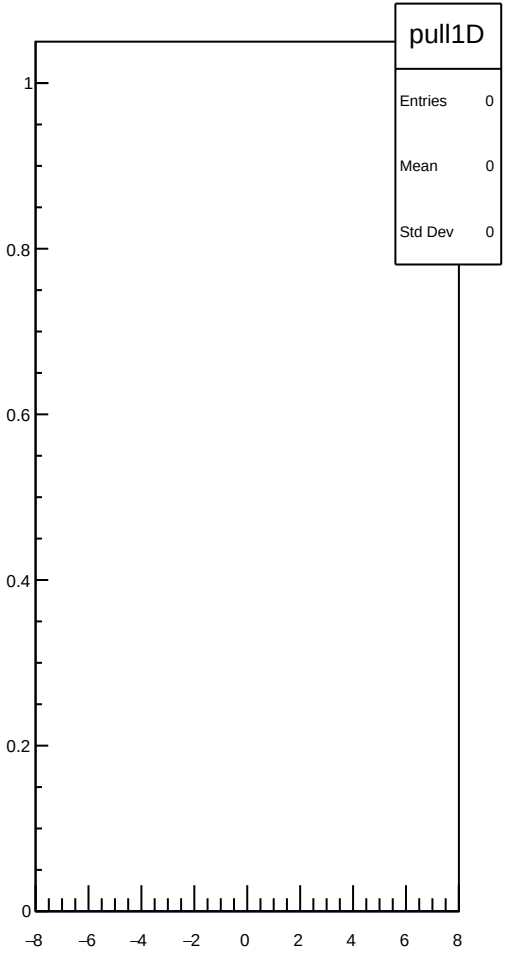

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

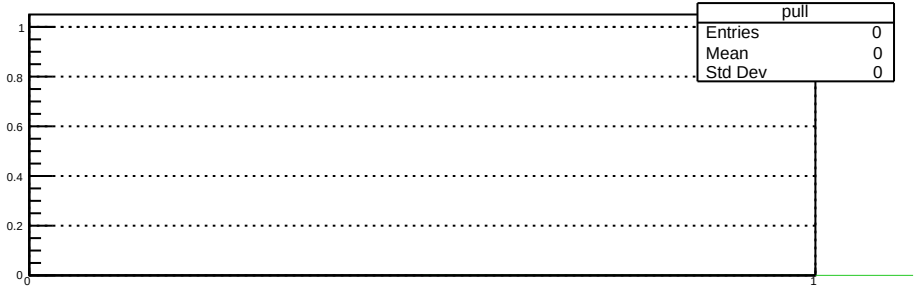

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

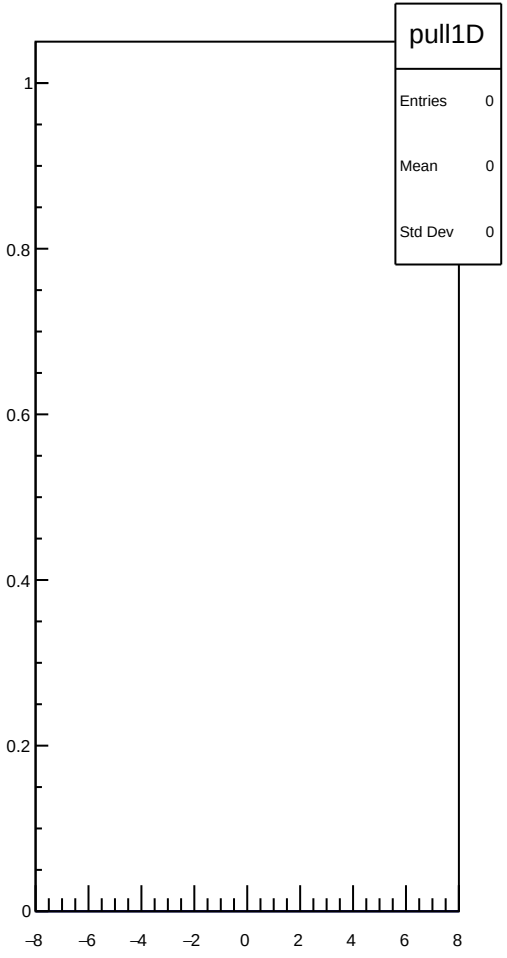

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

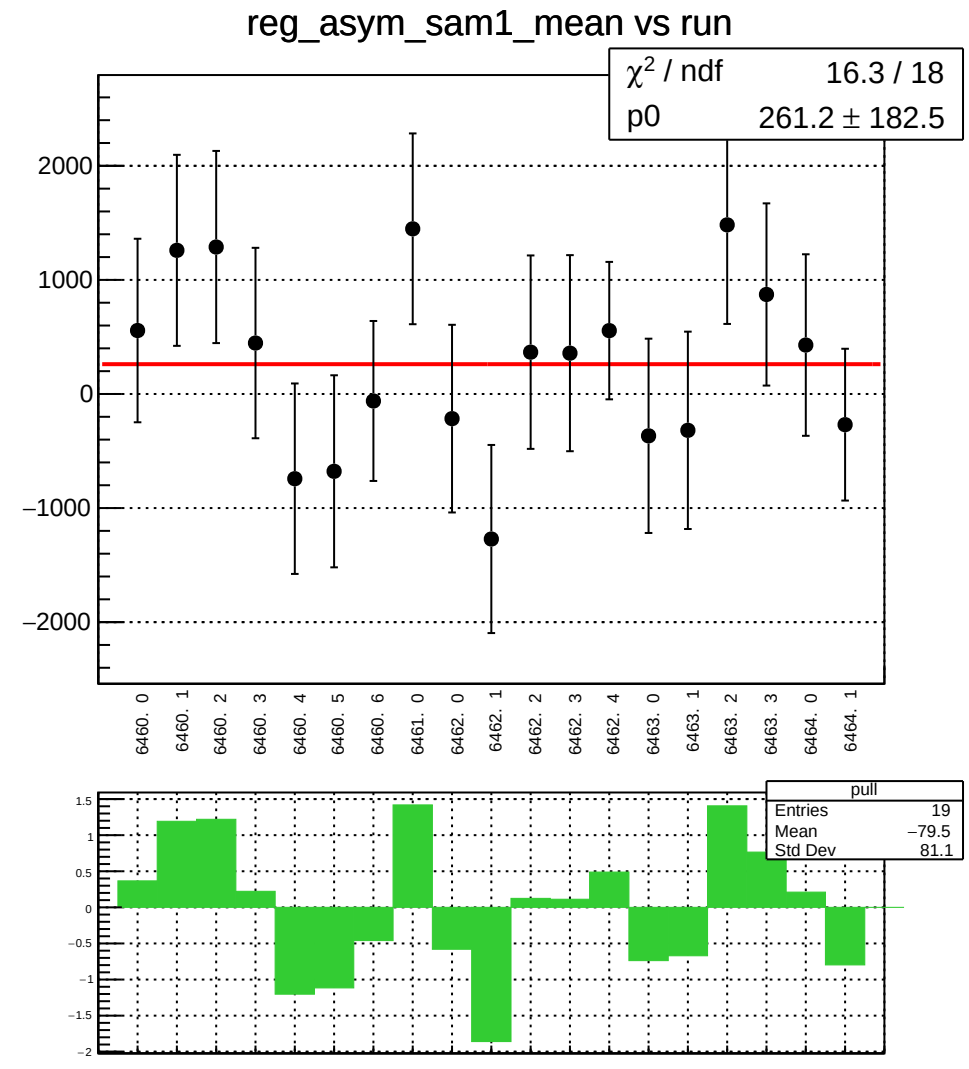

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

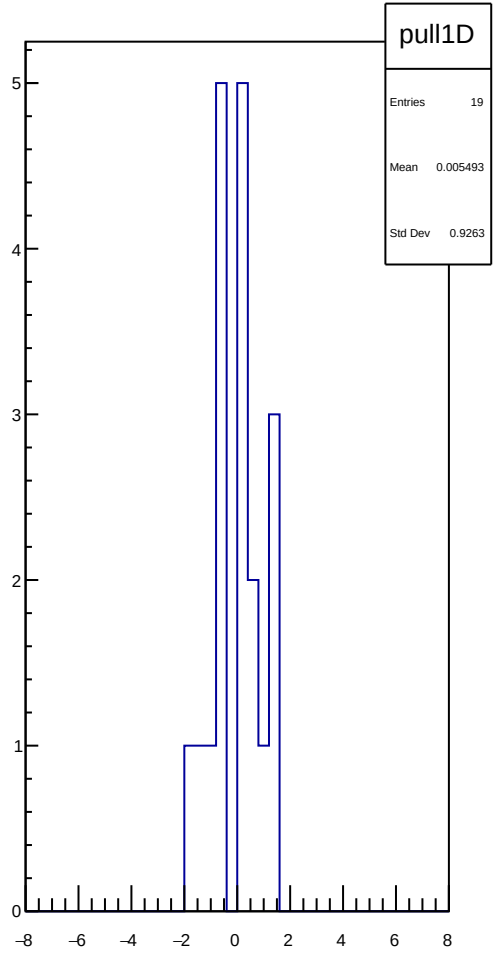

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

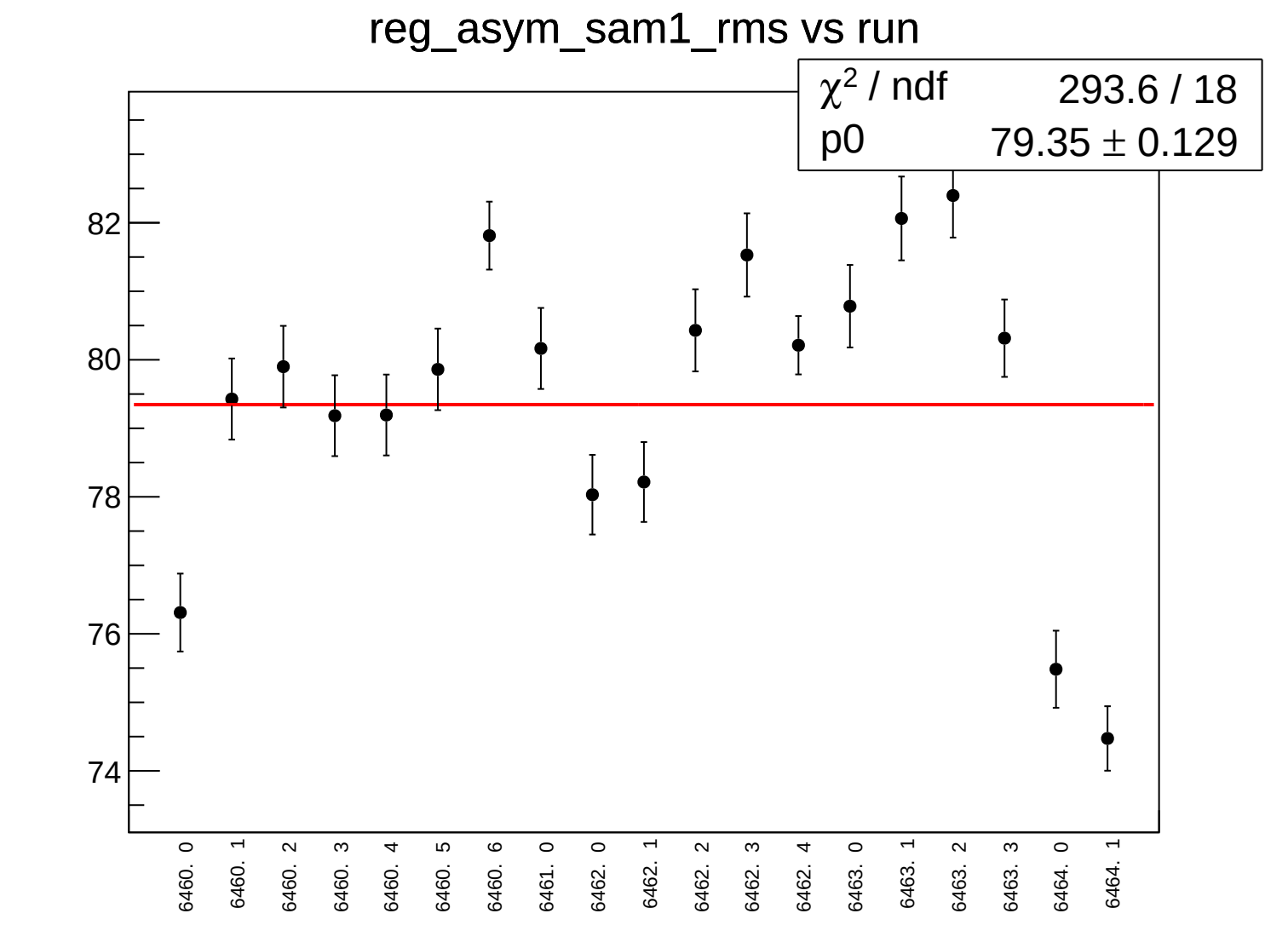

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

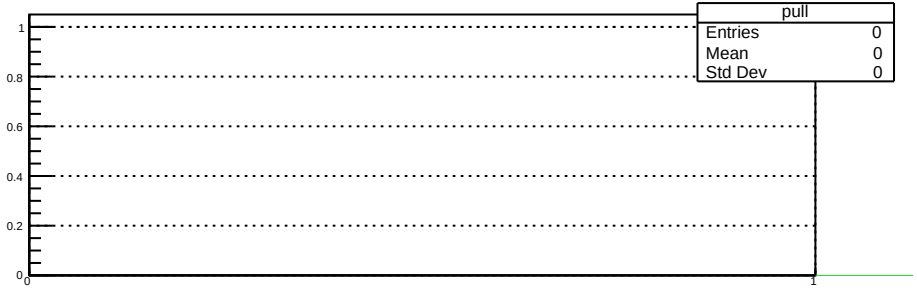

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

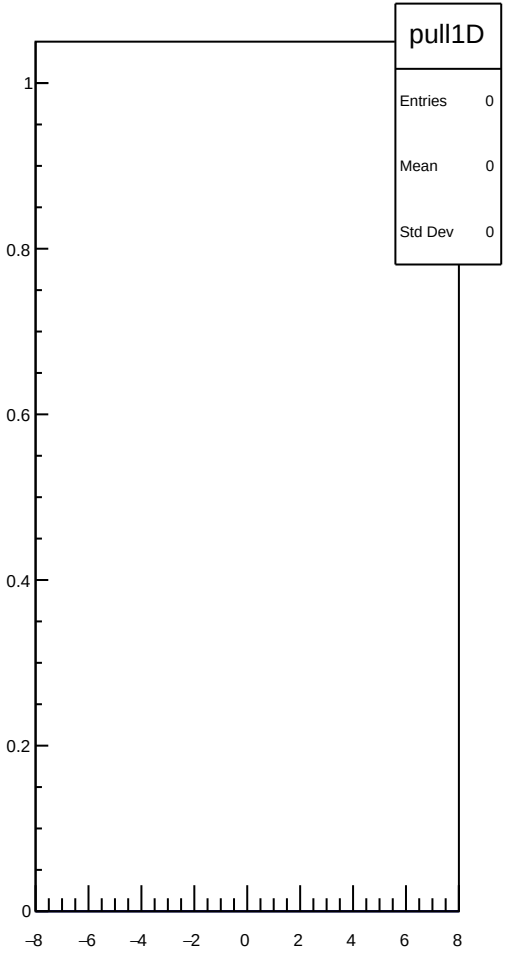

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

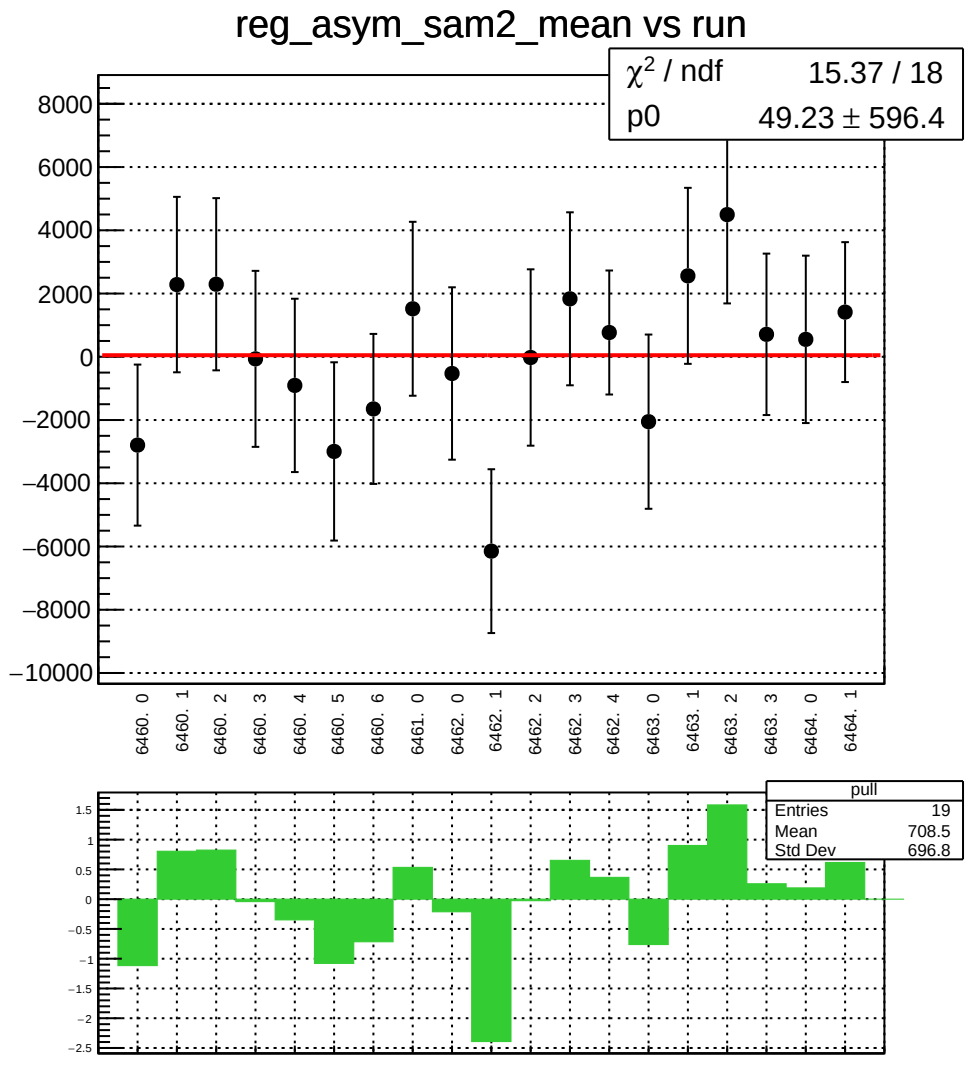

reg_asym_sam1_mean vs run
χ² / ndf 16.3 / 18
p0 261.2 ± 182.5
2000
1000
0
−1000
−2000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −79.5
Std Dev 81.1
1.5
1
0.5
0
−0.5
−1
−1.5
−2

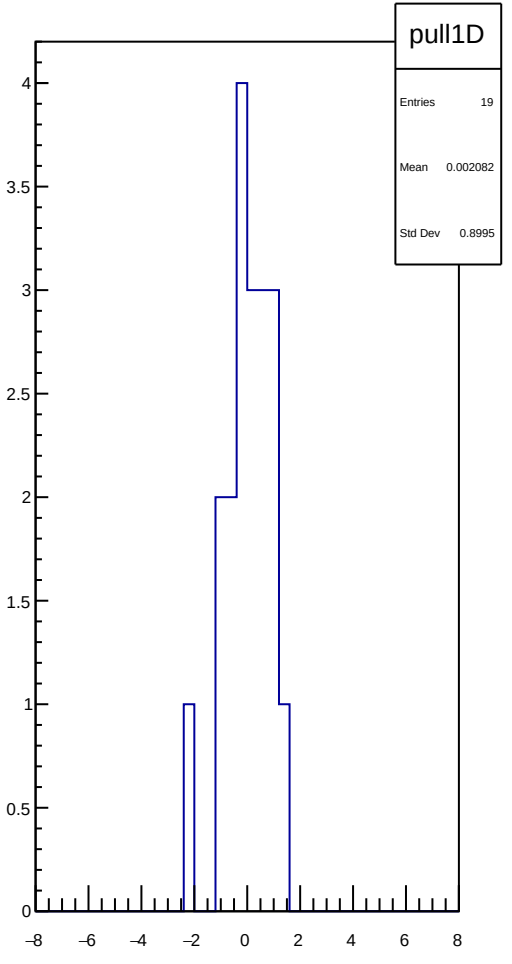

pull1D
Entries 19
Mean 0.005493
Std Dev 0.9263
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

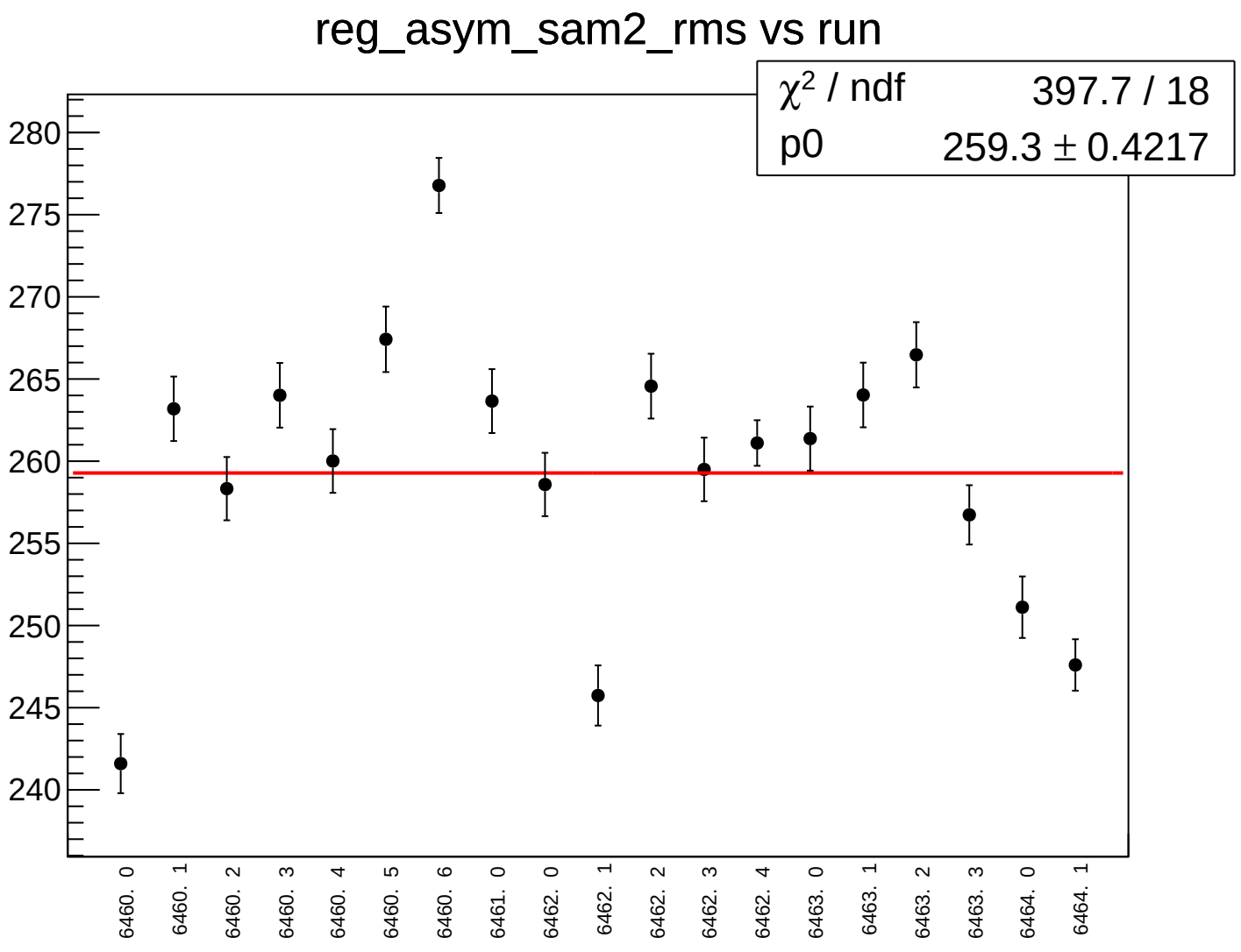

reg_asym_sam1_rms vs run
χ² / ndf 293.6 / 18
p0 79.35 ± 0.129
82
80
78
76
74
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

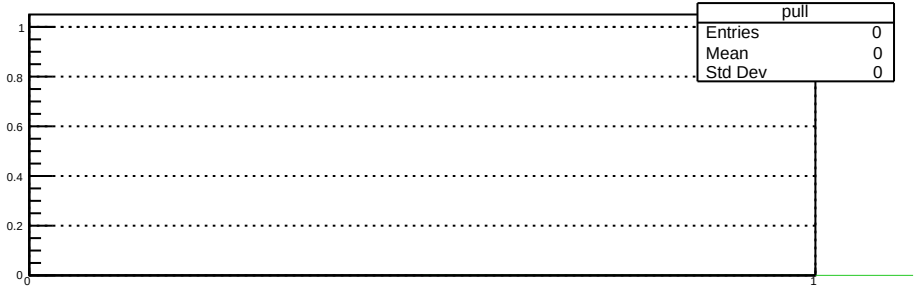

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

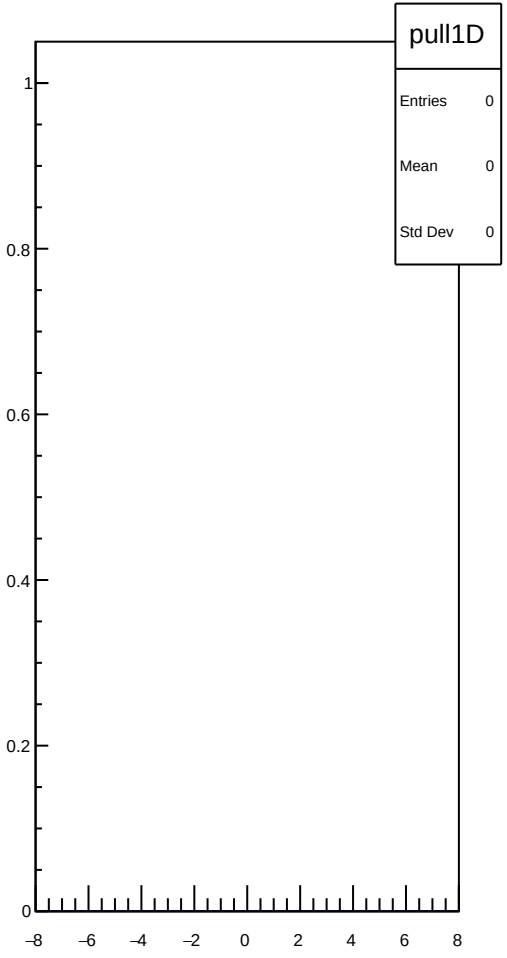

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

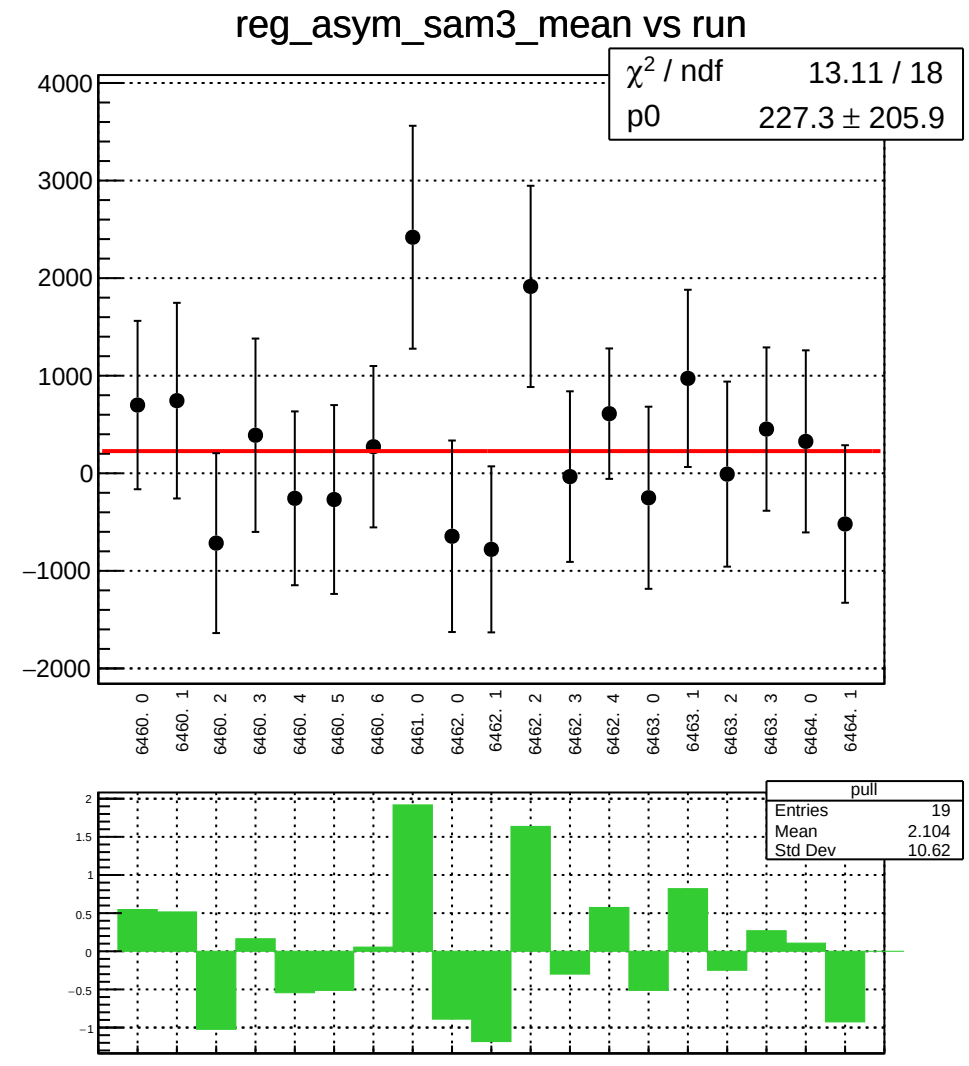

reg_asym_sam2_mean vs run
χ² / ndf 15.37 / 18
p0 49.23 ± 596.4
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 708.5
Std Dev 696.8
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

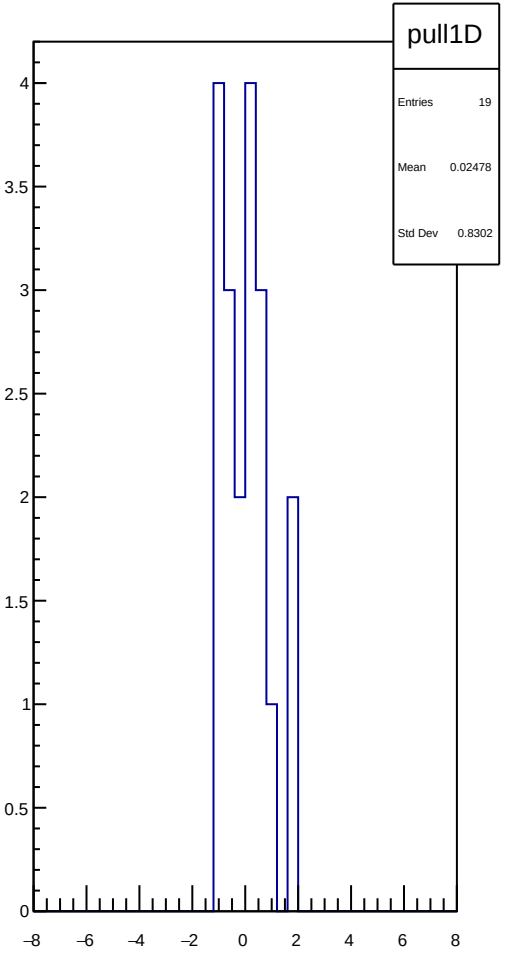

pull1D
Entries 19
Mean 0.002082
Std Dev 0.8995
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

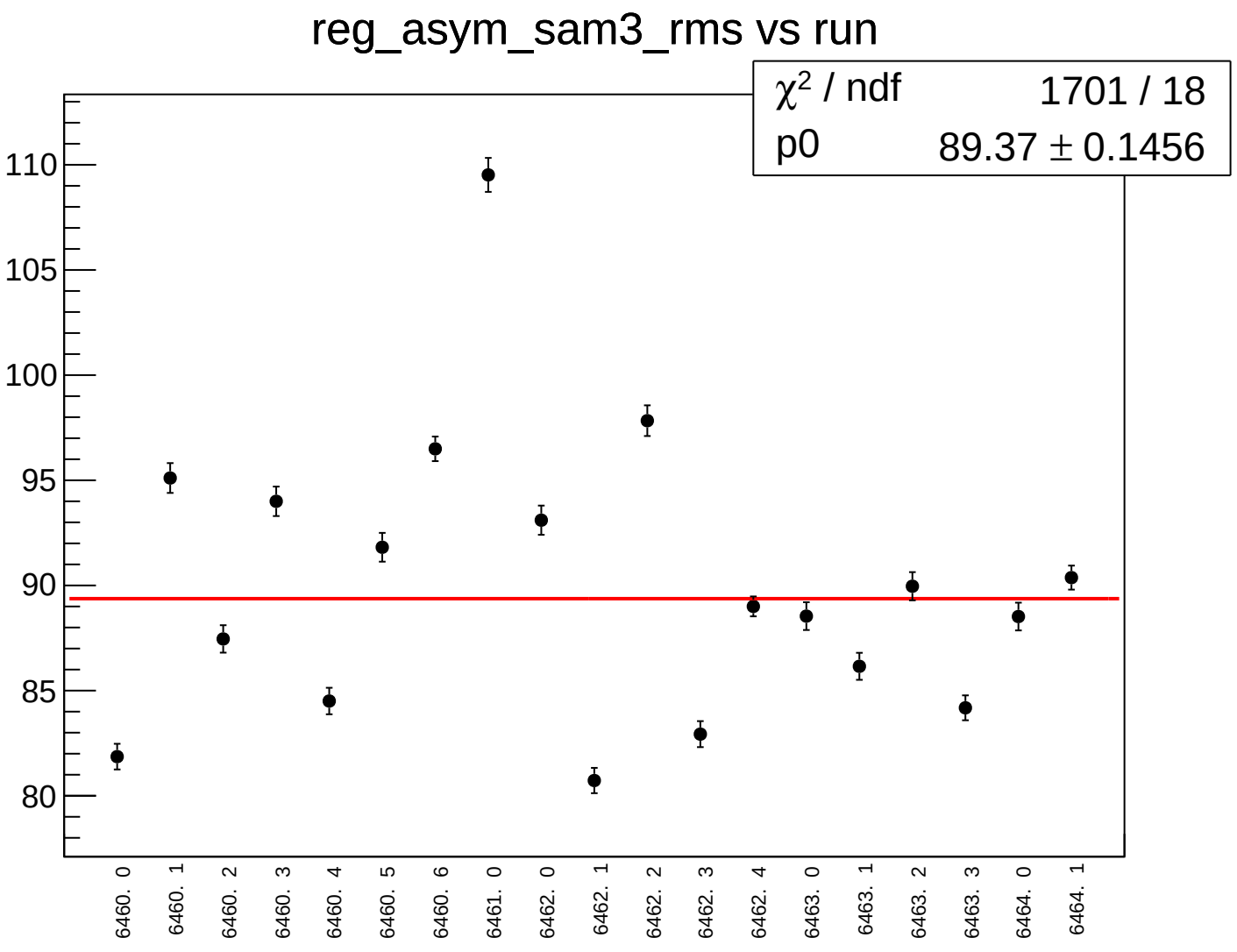

reg_asym_sam2_rms vs run
χ² / ndf 397.7 / 18
p0 259.3 ± 0.4217
280
275
270
265
260
255
250
245
240
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

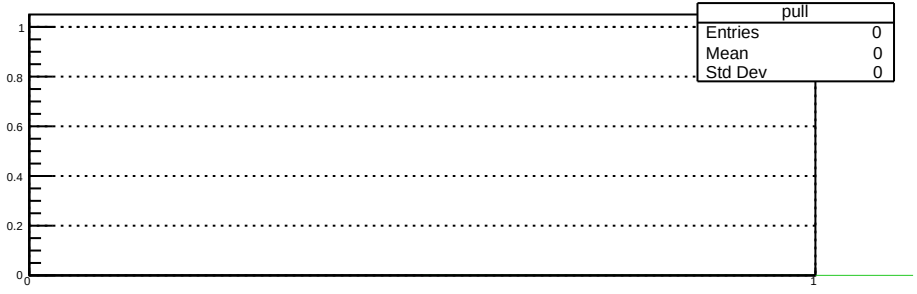

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

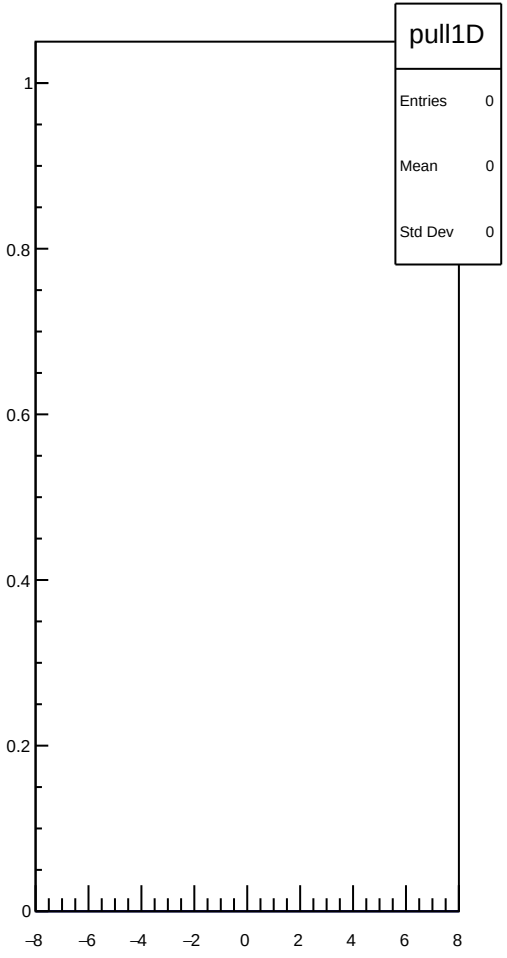

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

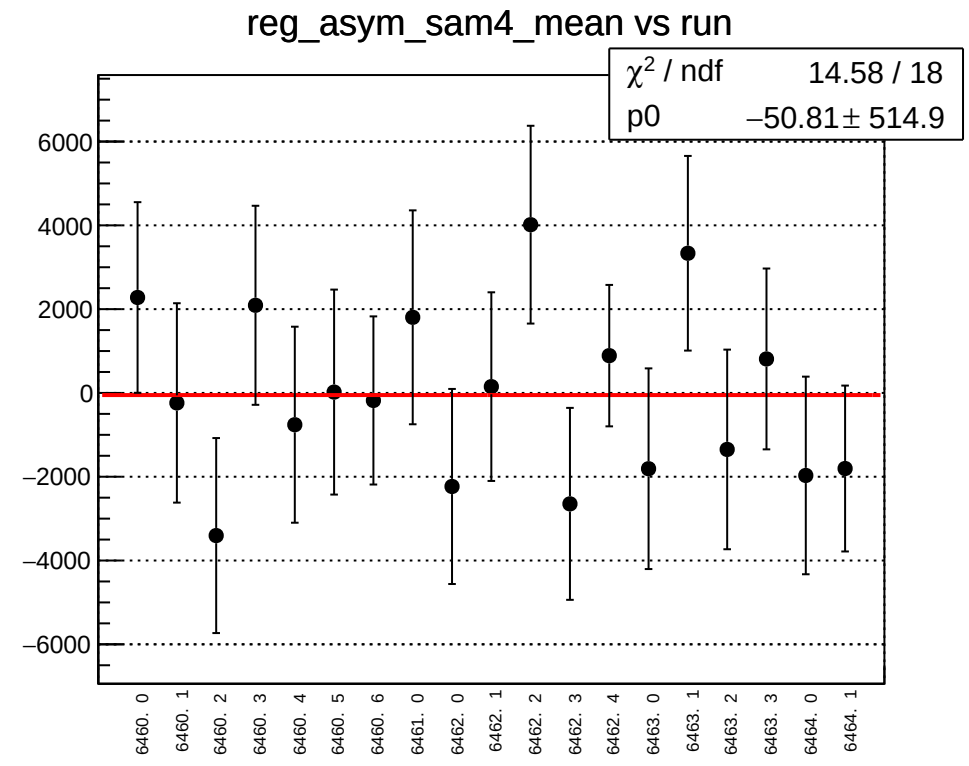

reg_asym_sam3_mean vs run
χ² / ndf 13.11 / 18
p0 227.3 ± 205.9
4000
3000
2000
1000
0
−1000
−2000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 2.104
Std Dev 10.62
2
1.5
1
0.5
0
−0.5
−1

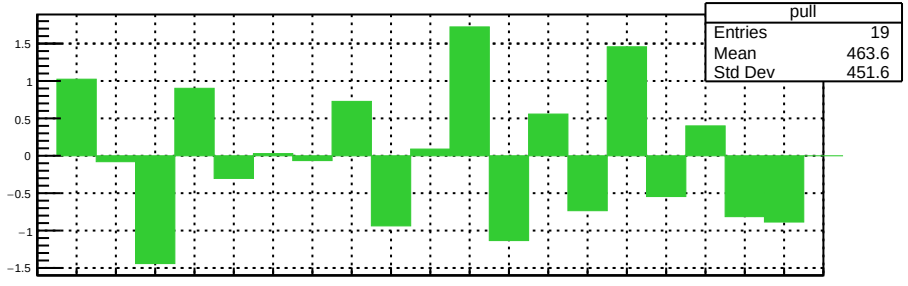

pull1D
Entries 19
Mean 0.02478
Std Dev 0.8302
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

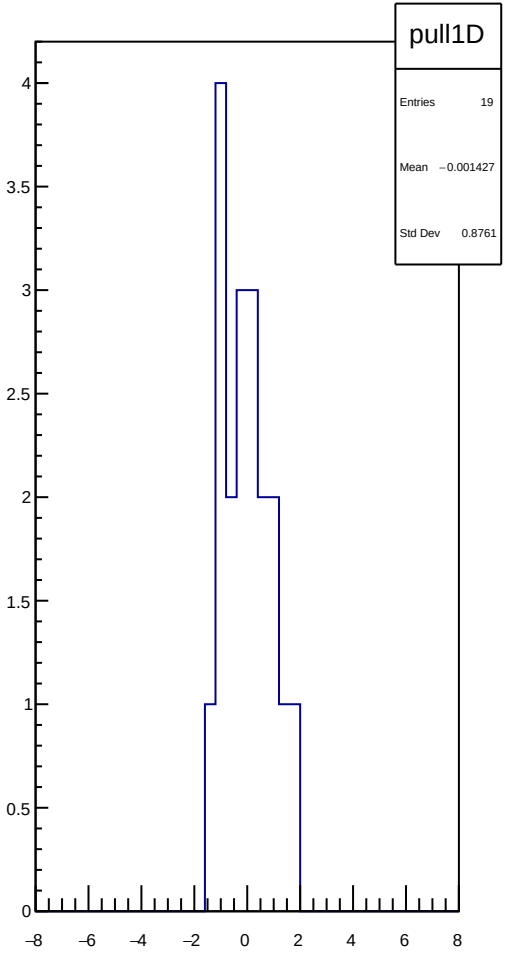

reg_asym_sam3_rms vs run
χ² / ndf 1701 / 18
p0 89.37 ± 0.1456
110
105
100
95
90
85
80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

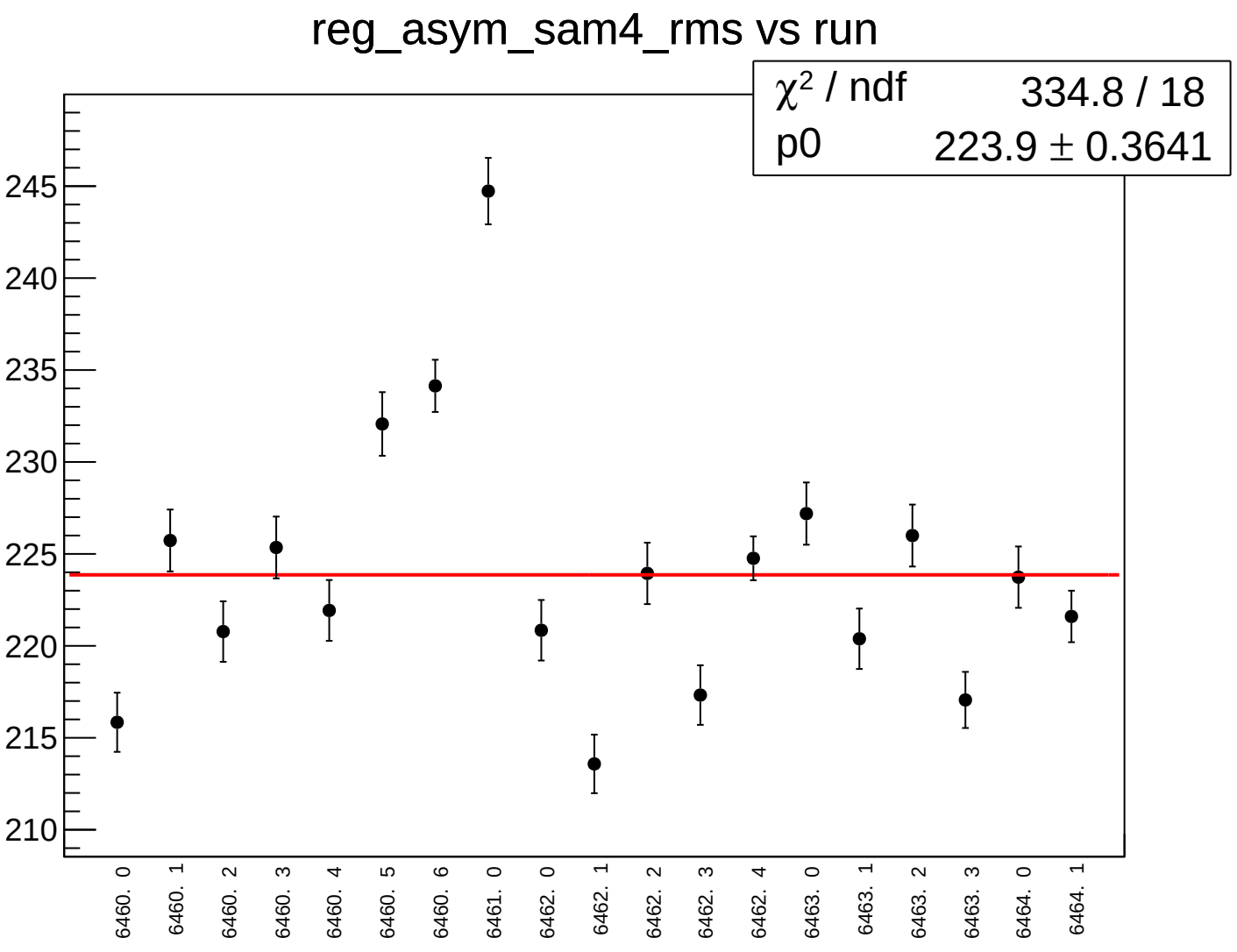

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

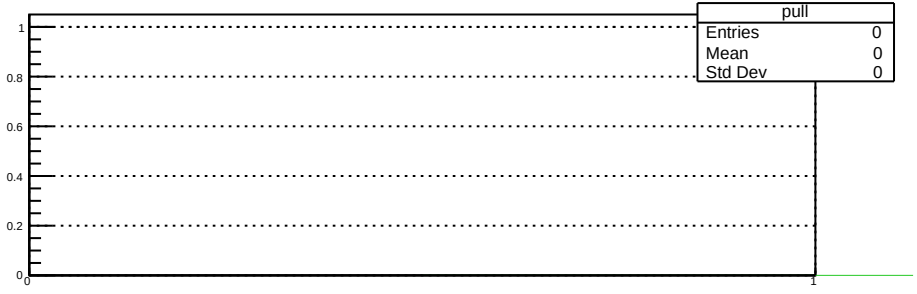

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

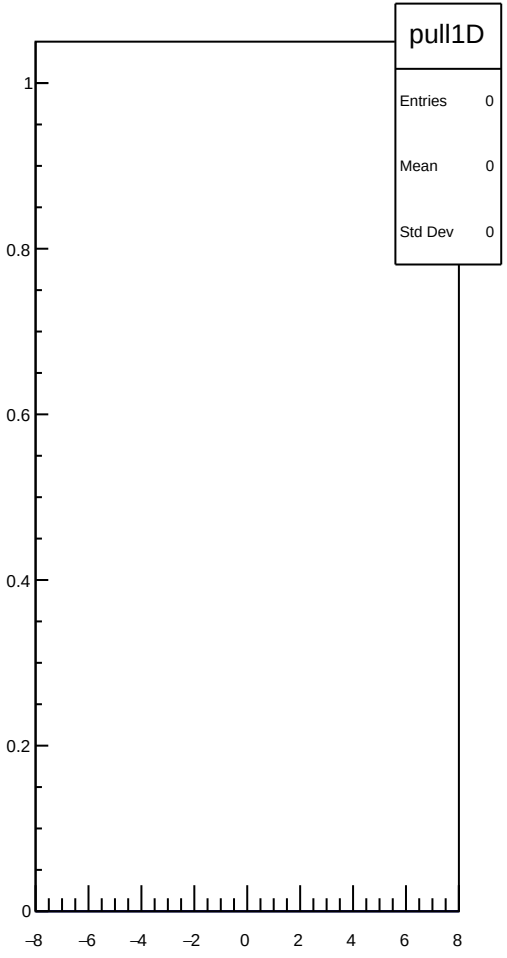

reg_asym_sam4_mean vs run
χ² / ndf 14.58 / 18
p0 −50.81 ± 514.9
6000
4000
2000
0
−2000
−4000
−6000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

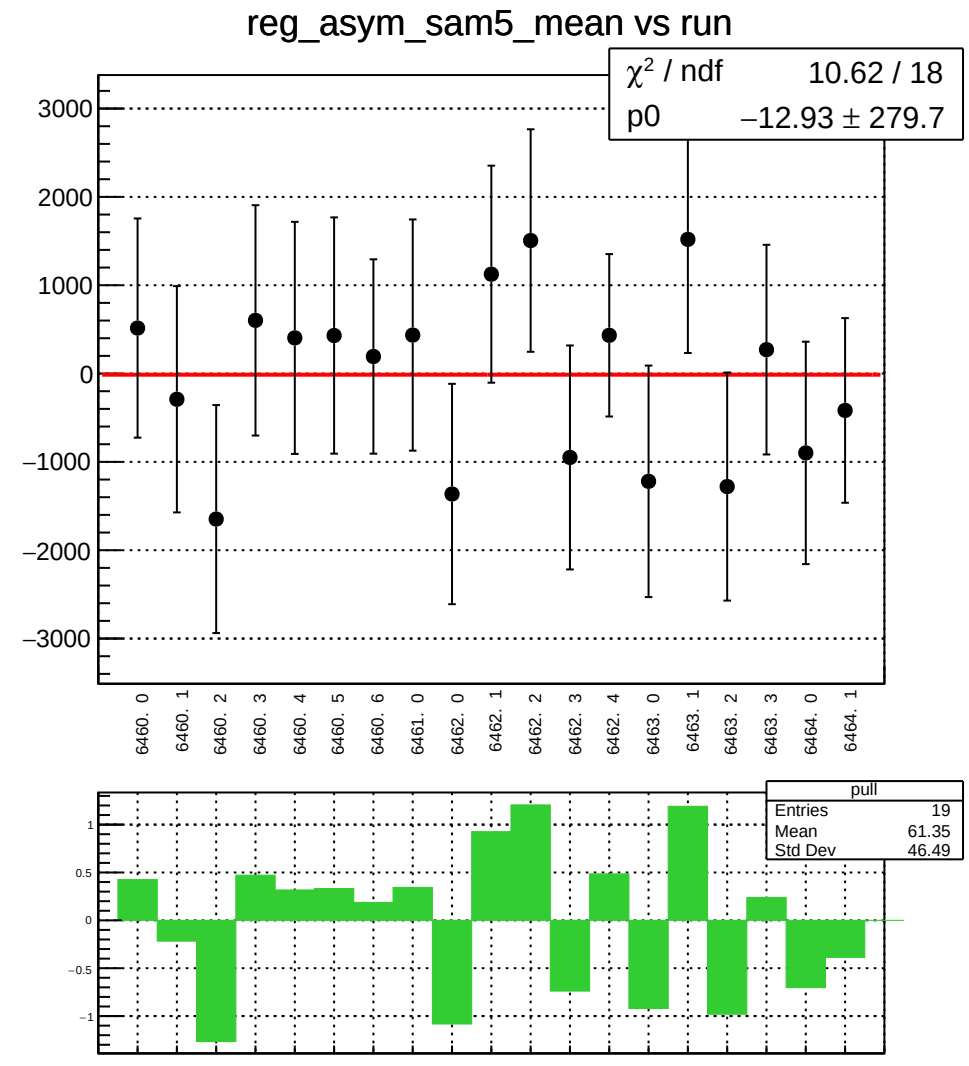

pull
Entries 19
Mean 463.6
Std Dev 451.6
1.5
1
0.5
0
−0.5
−1
−1.5

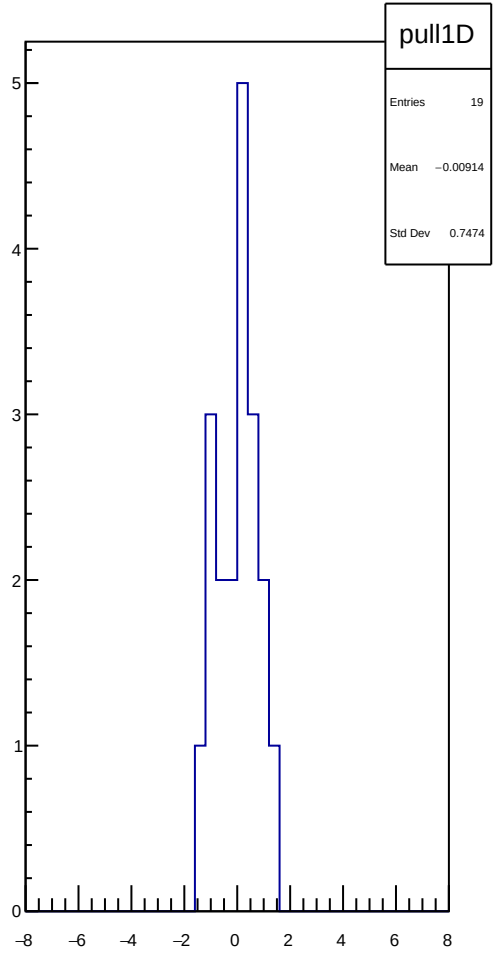

pull1D
Entries 19
Mean −0.001427
Std Dev 0.8761
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

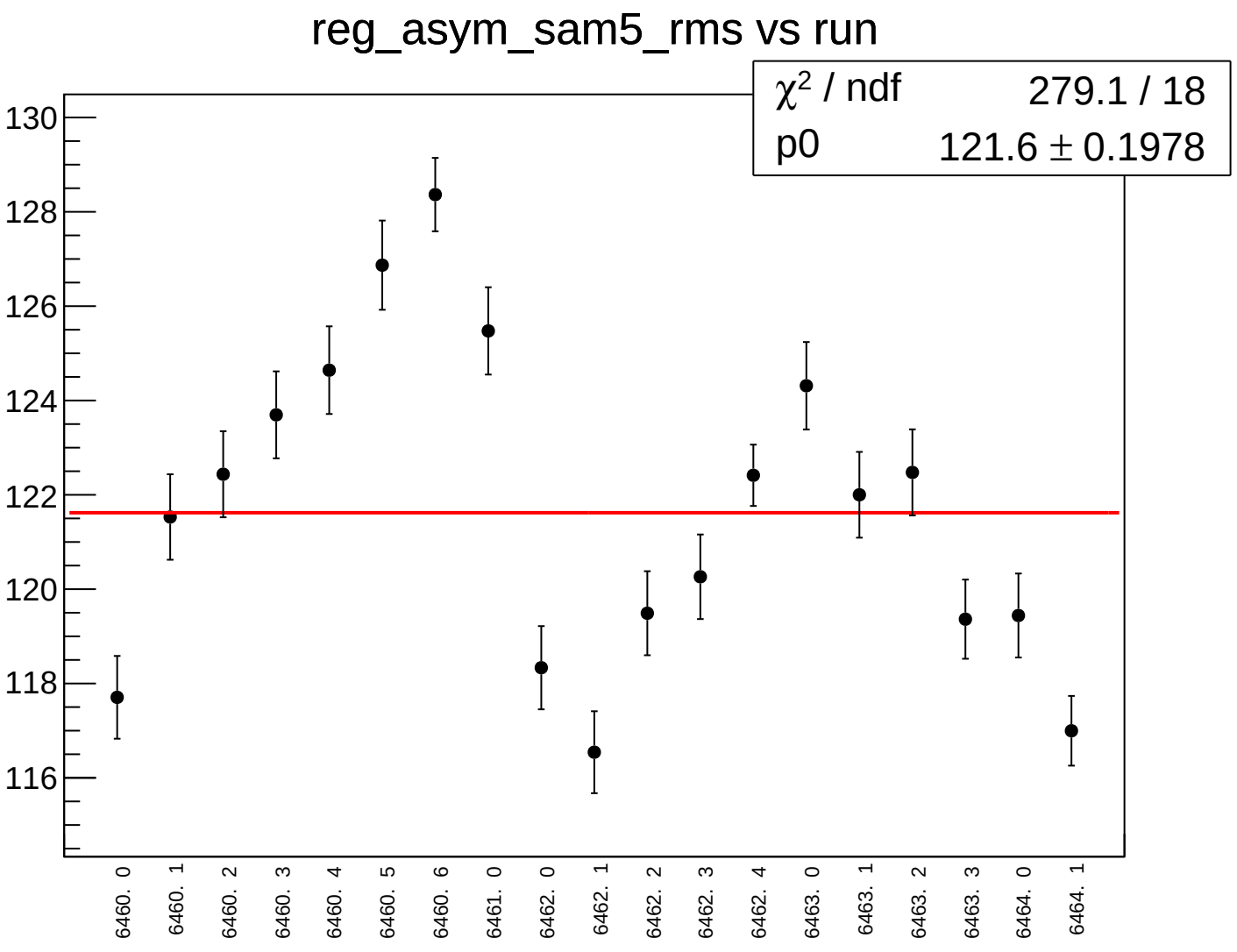

reg_asym_sam4_rms vs run
χ² / ndf 334.8 / 18
p0 223.9 ± 0.3641
245
240
235
230
225
220
215
210
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

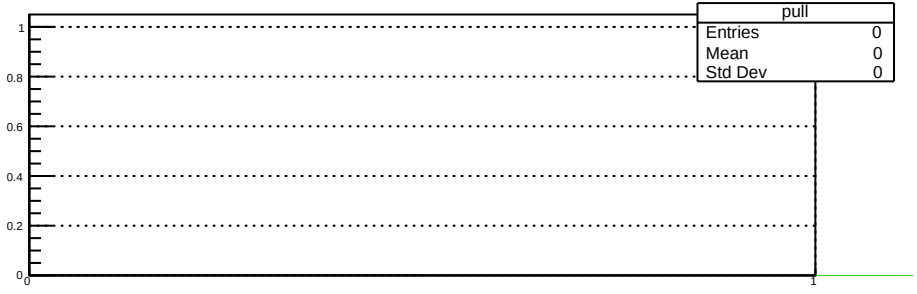

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

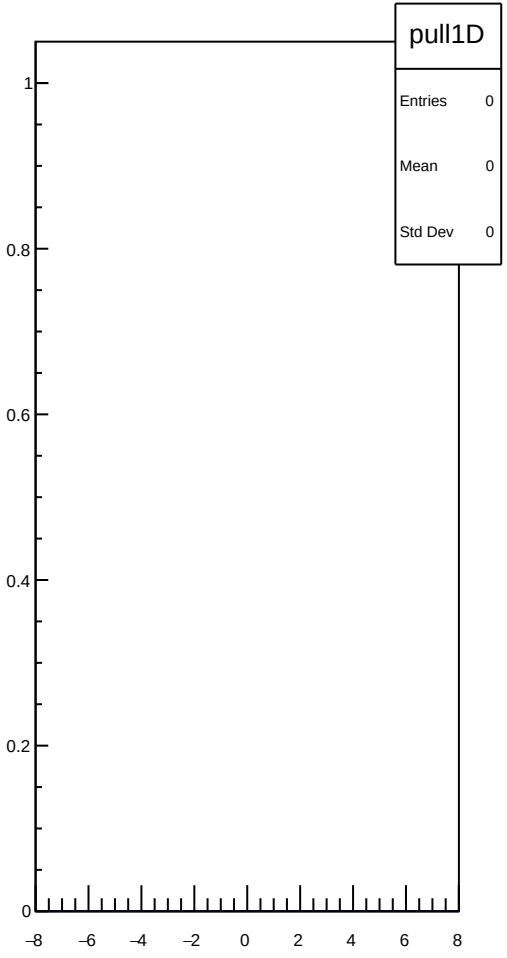

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

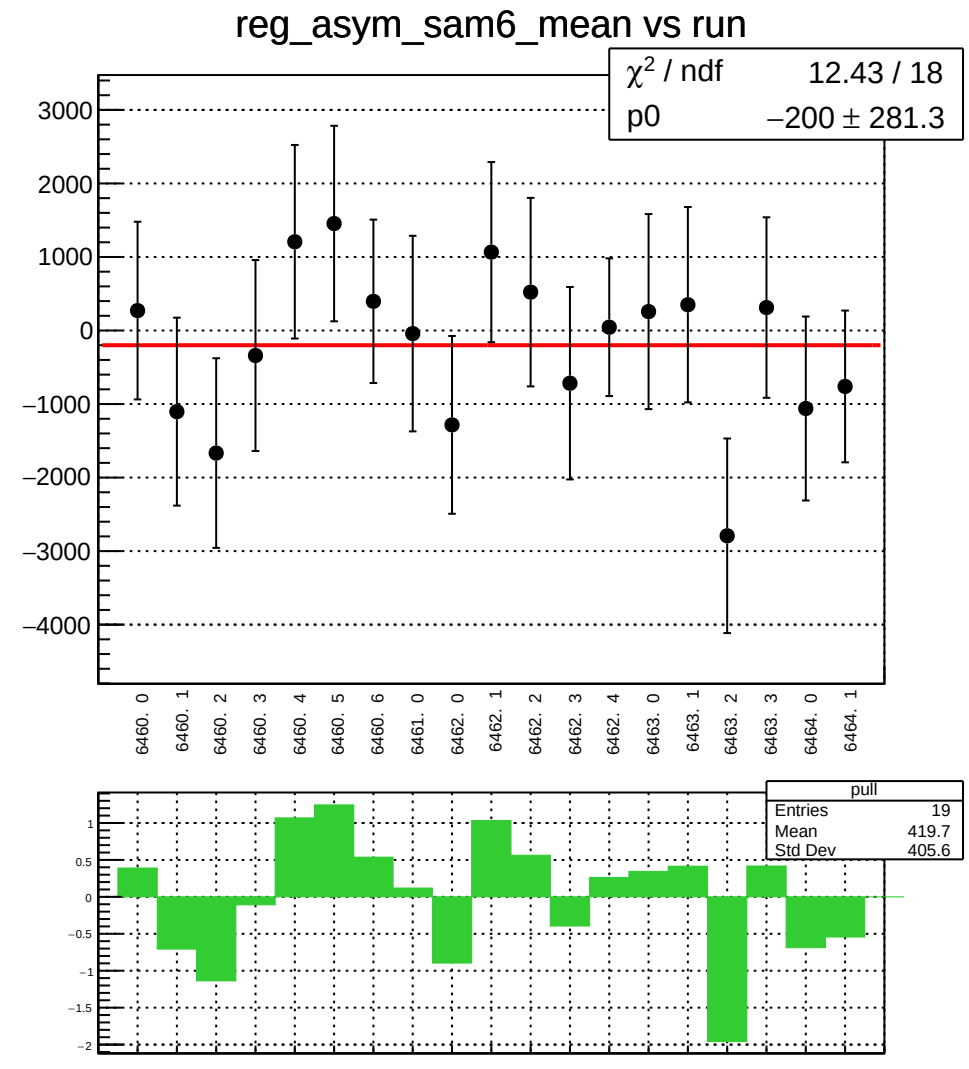

reg_asym_sam5_mean vs run
χ² / ndf 10.62 / 18
p0 −12.93 ± 279.7
3000
2000
1000
0
−1000
−2000
−3000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 61.35
Std Dev 46.49
1
0.5
0
−0.5
−1

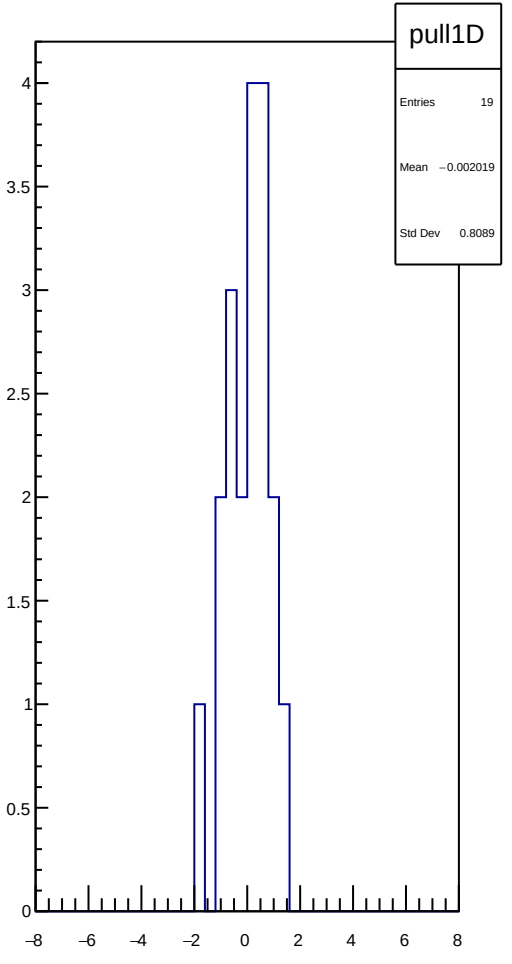

pull1D
Entries 19
Mean −0.00914
Std Dev 0.7474
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

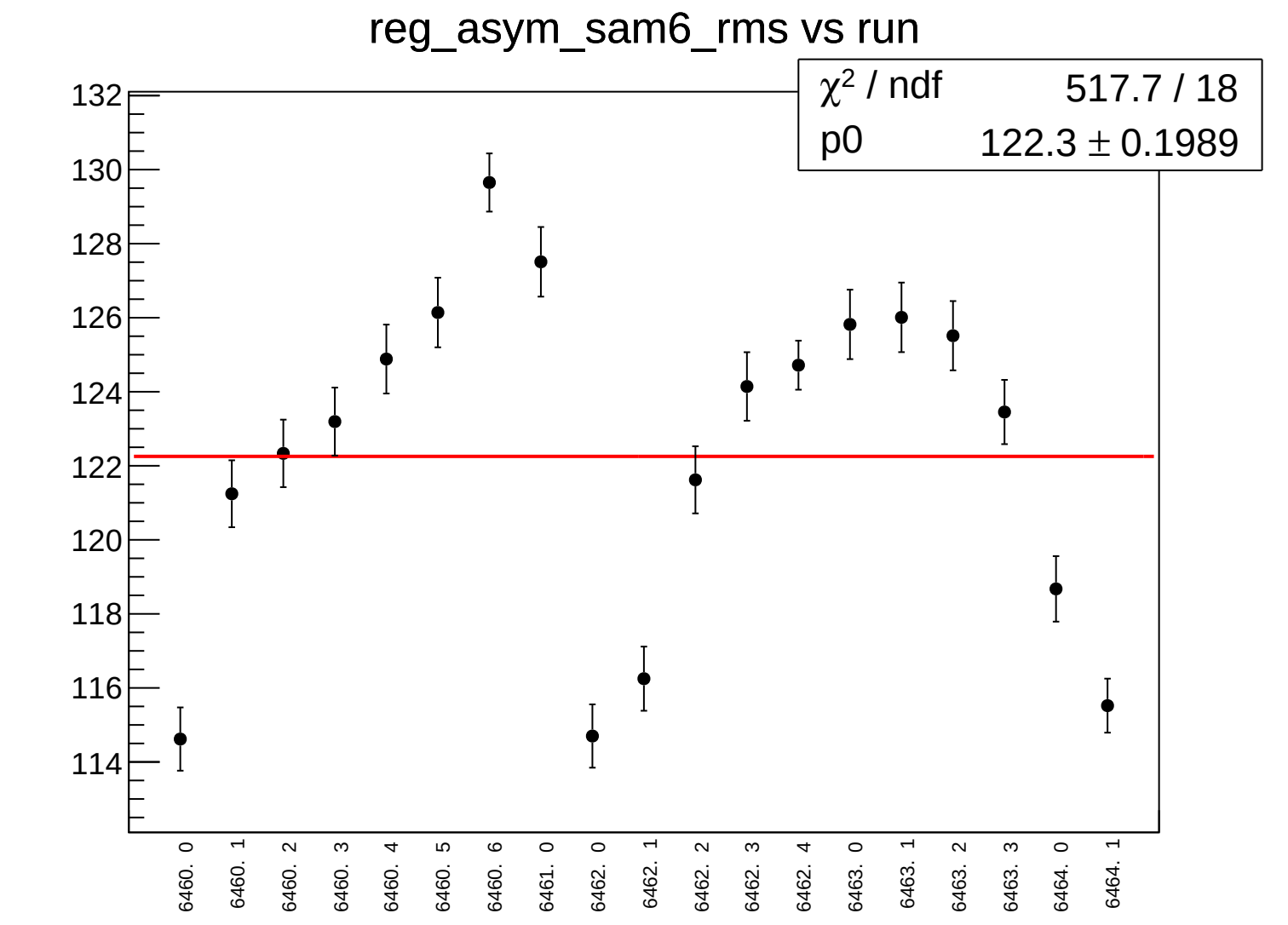

reg_asym_sam5_rms vs run
χ² / ndf 279.1 / 18
p0 121.6 ± 0.1978
130
128
126
124
122
120
118
116
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

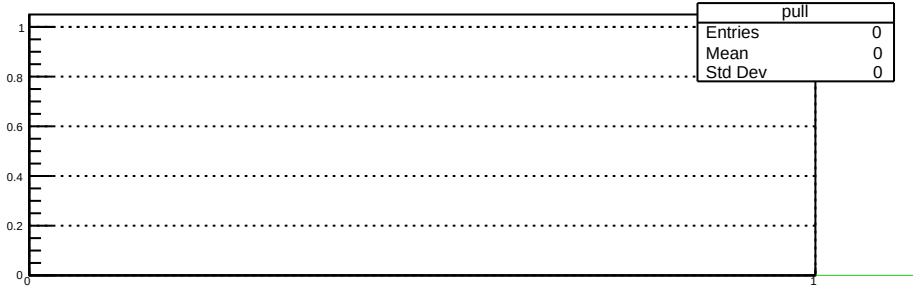

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

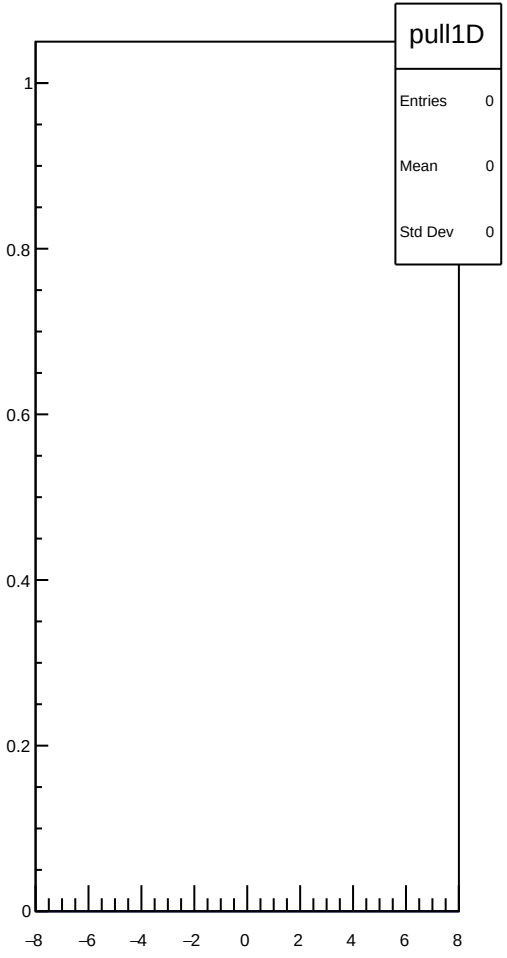

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

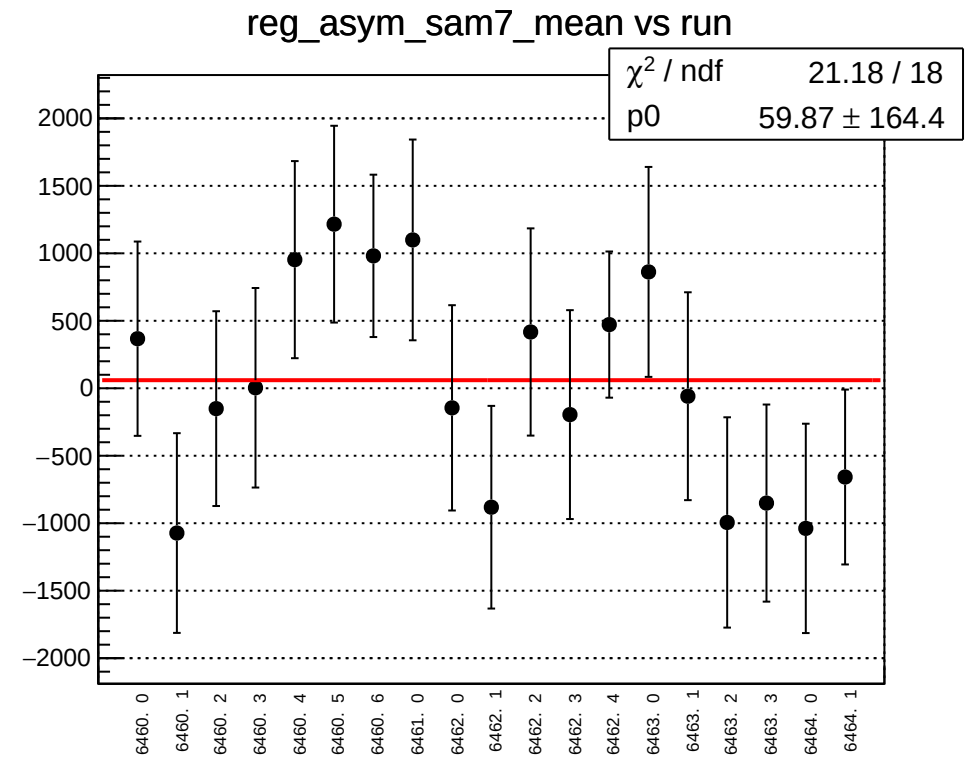

reg_asym_sam6_mean vs run
χ² / ndf 12.43 / 18
p0 −200 ± 281.3
3000
2000
1000
0
−1000
−2000
−3000
−4000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 419.7
Std Dev 405.6
1
0.5
0
−0.5
−1
−1.5
−2

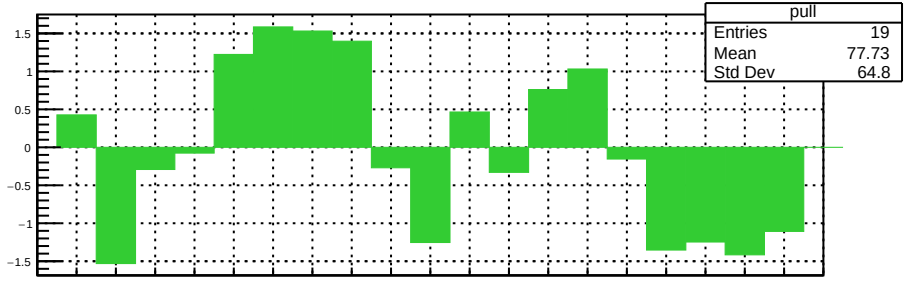

pull1D
Entries 19
Mean −0.002019
Std Dev 0.8089
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

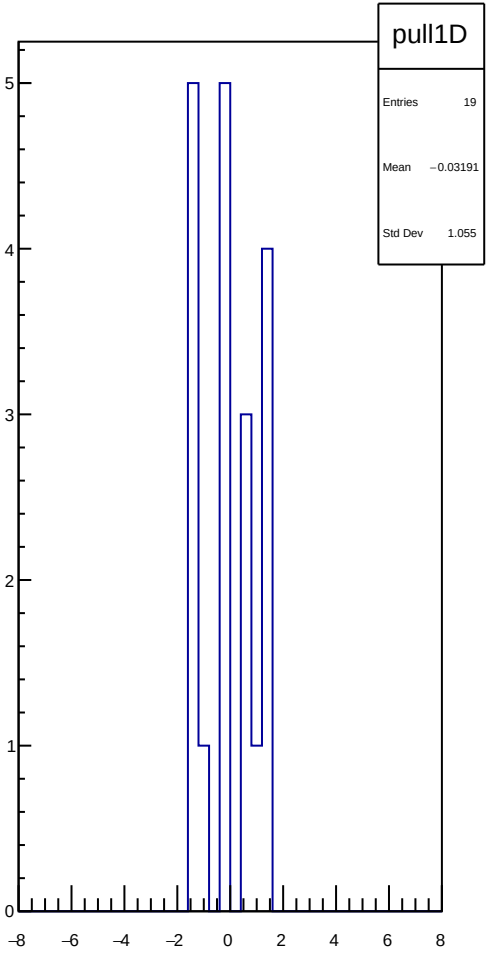

reg_asym_sam6_rms vs run
χ² / ndf 517.7 / 18
p0 122.3 ± 0.1989
132
130
128
126
124
122
120
118
116
114
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

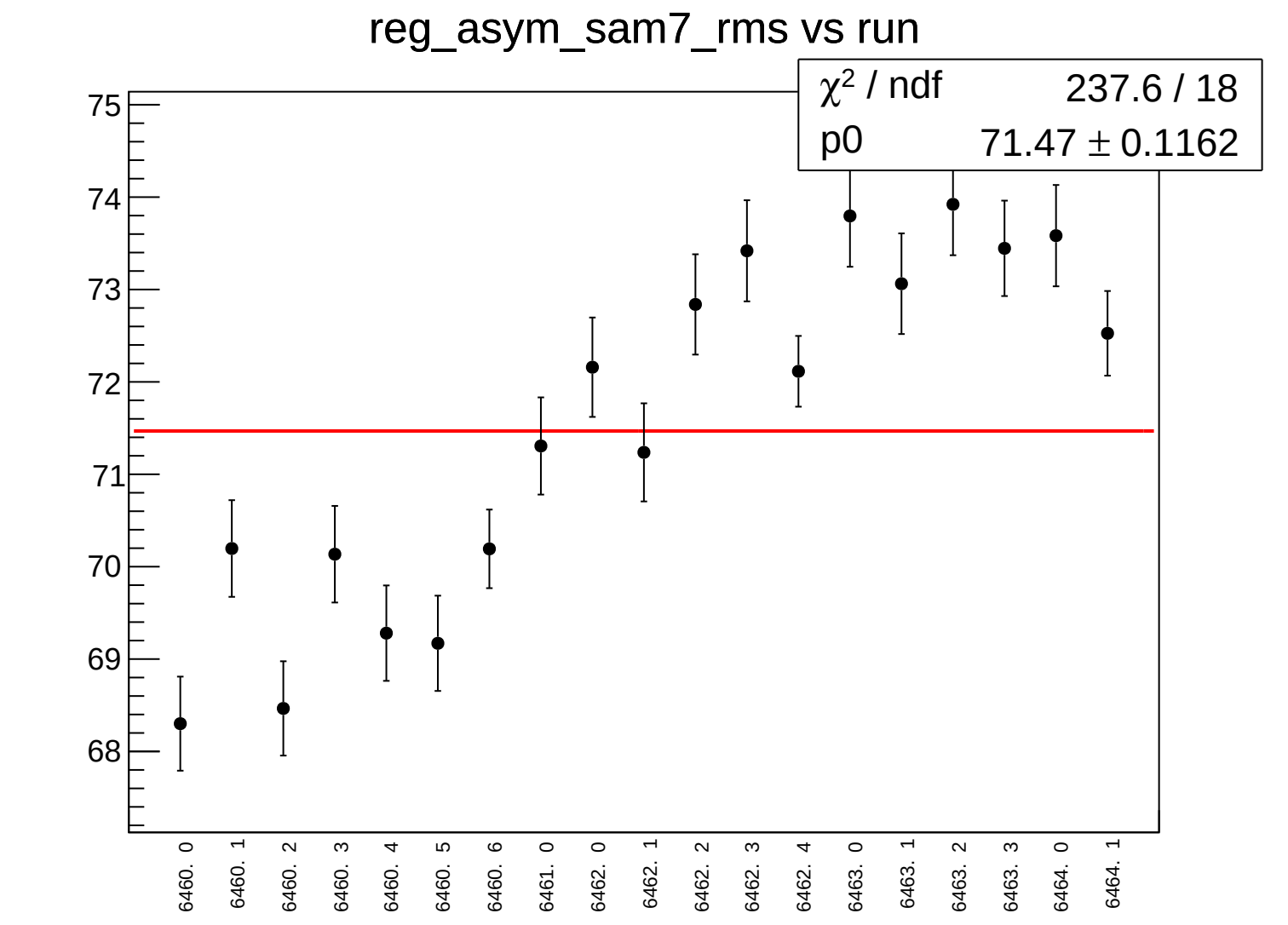

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

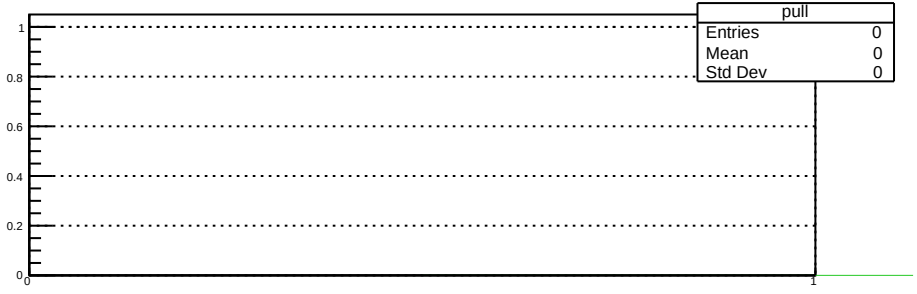

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

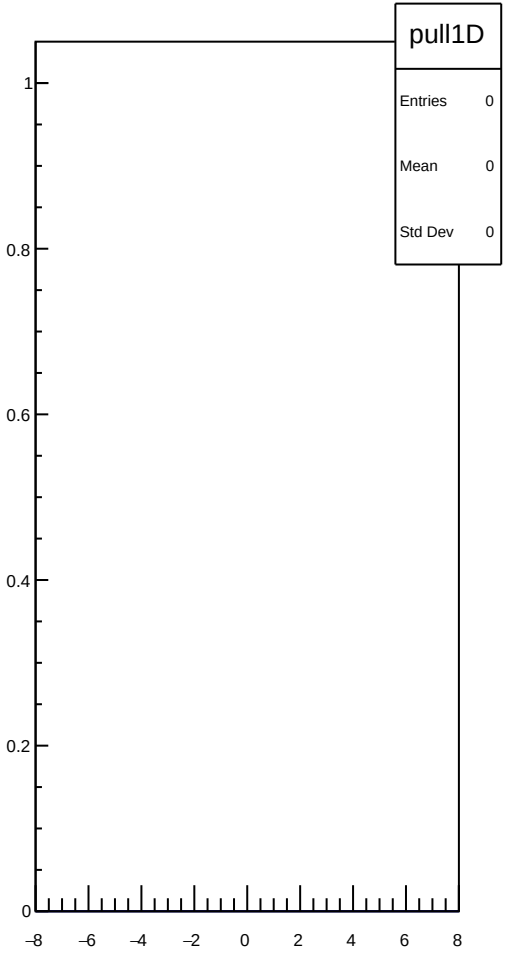

reg_asym_sam7_mean vs run
χ² / ndf 21.18 / 18
p0 59.87 ± 164.4
2000
1500
1000
500
0
−500
−1000
−1500
−2000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

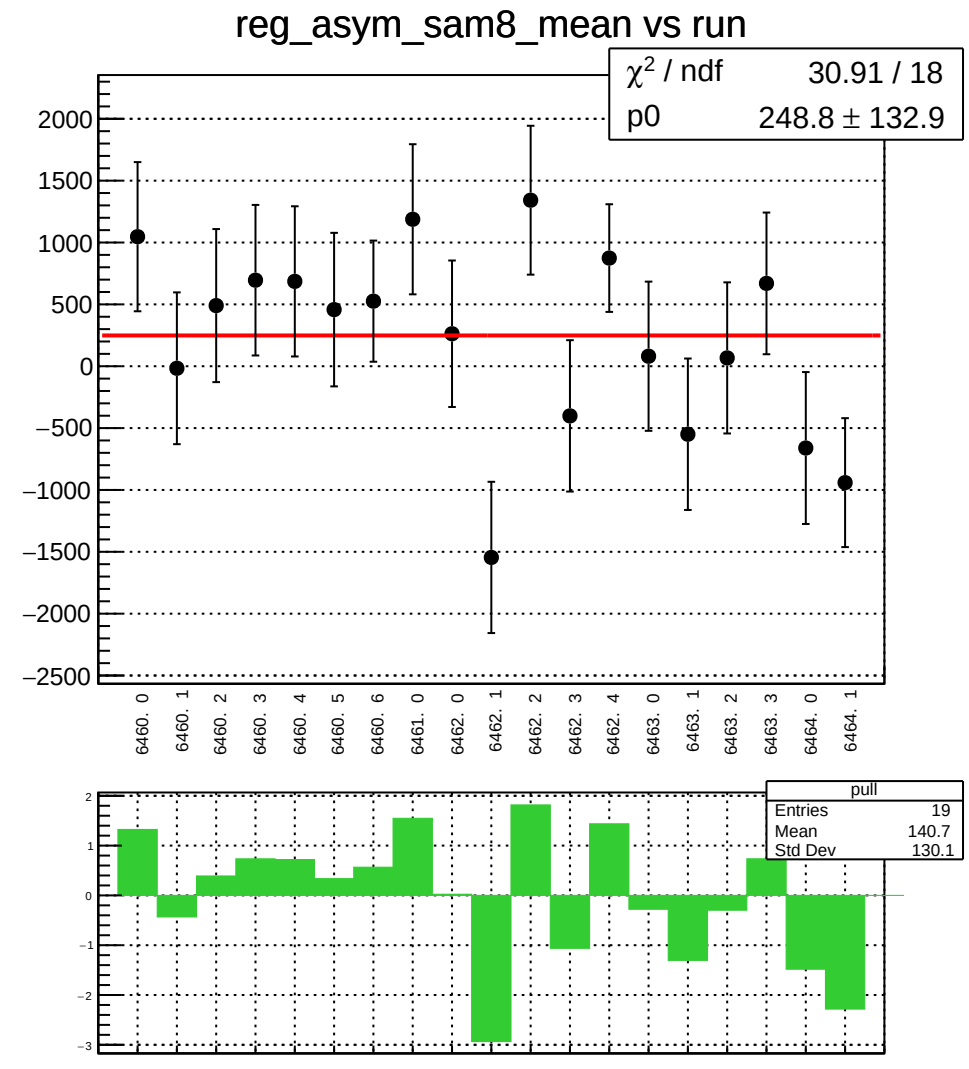

pull
Entries 19
Mean 77.73
Std Dev 64.8
1.5
1
0.5
0
−0.5
−1
−1.5

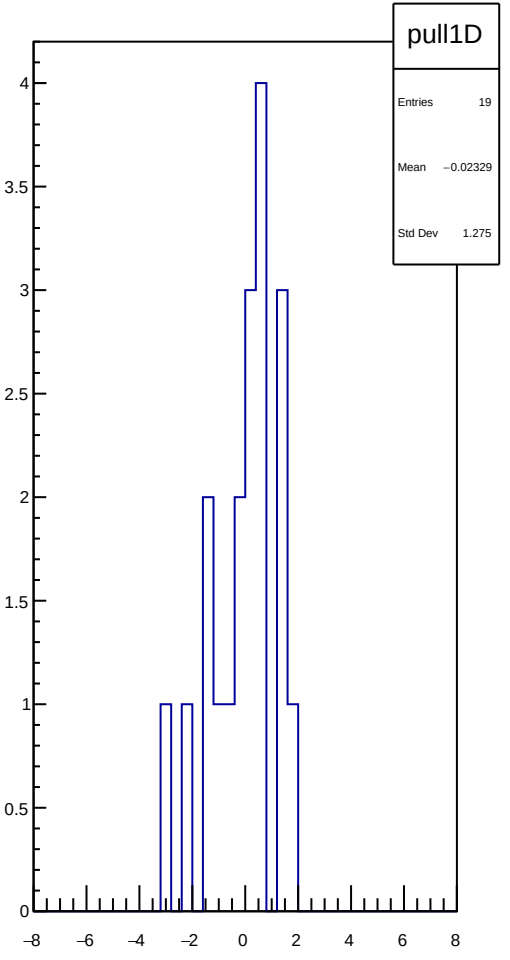

pull1D
Entries 19
Mean −0.03191
Std Dev 1.055
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

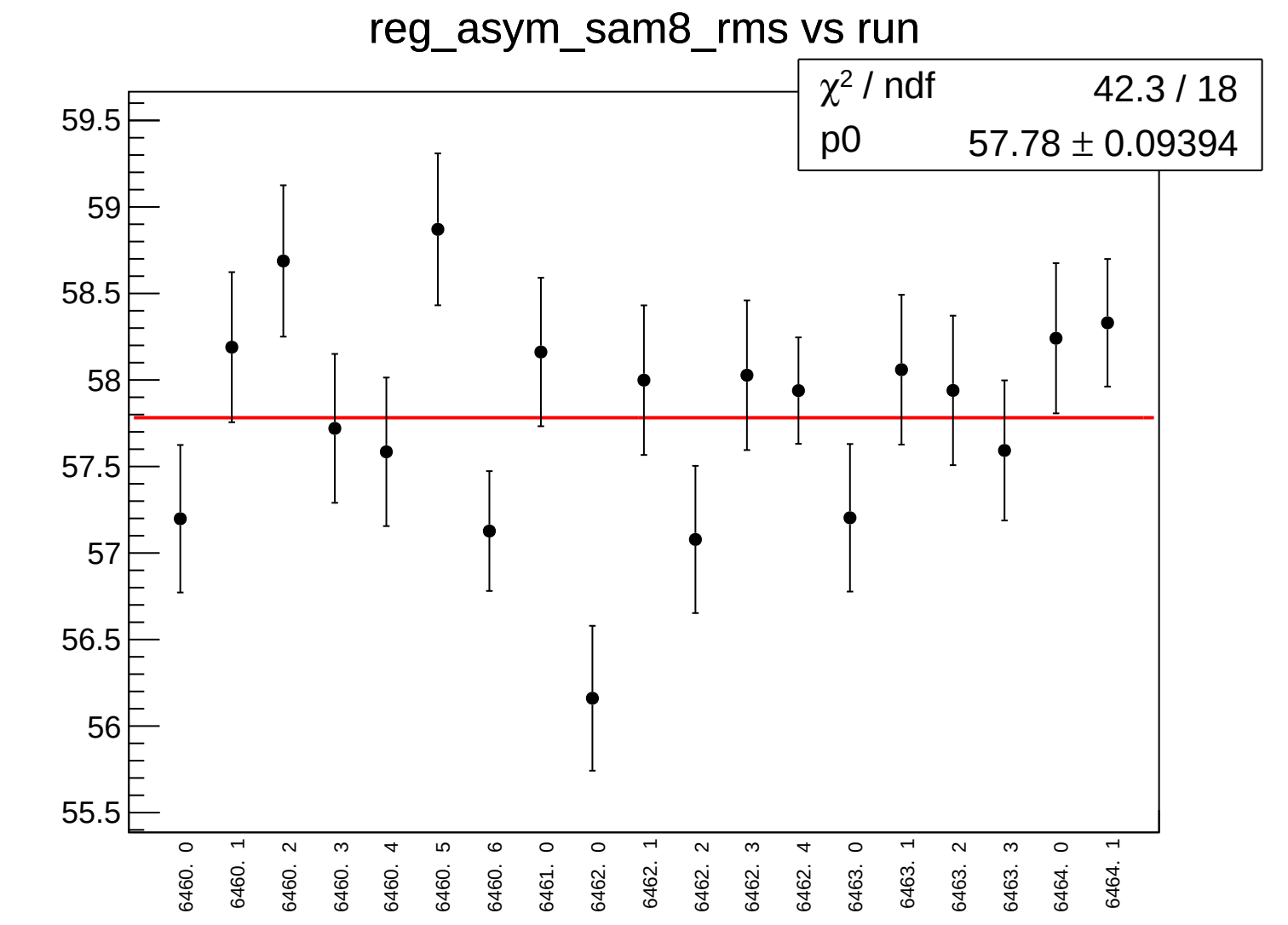

reg_asym_sam7_rms vs run
χ² / ndf 237.6 / 18
p0 71.47 ± 0.1162
75
74
73
72
71
70
69
68
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

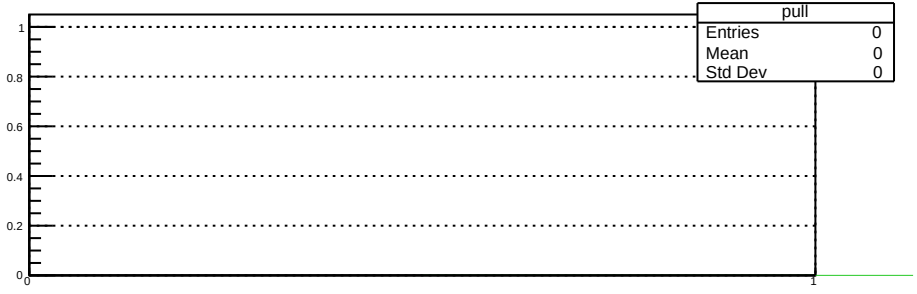

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

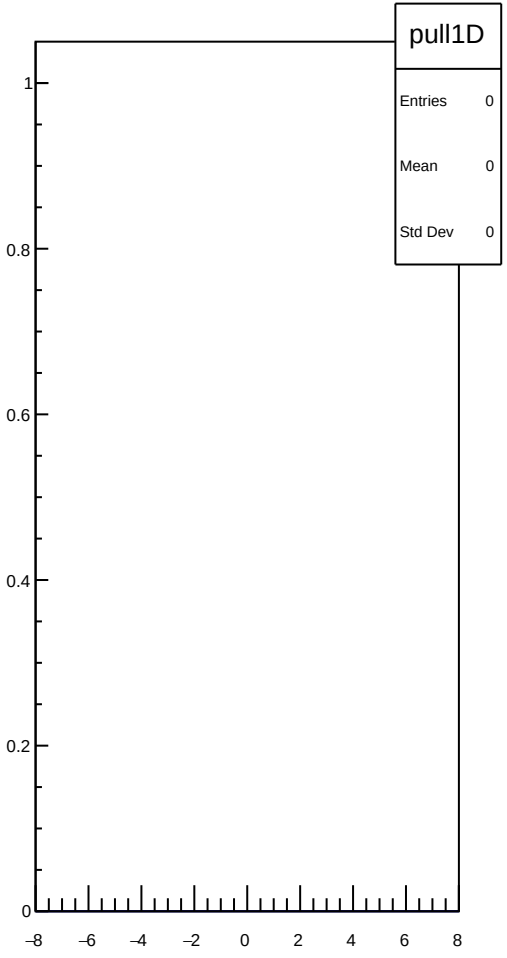

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

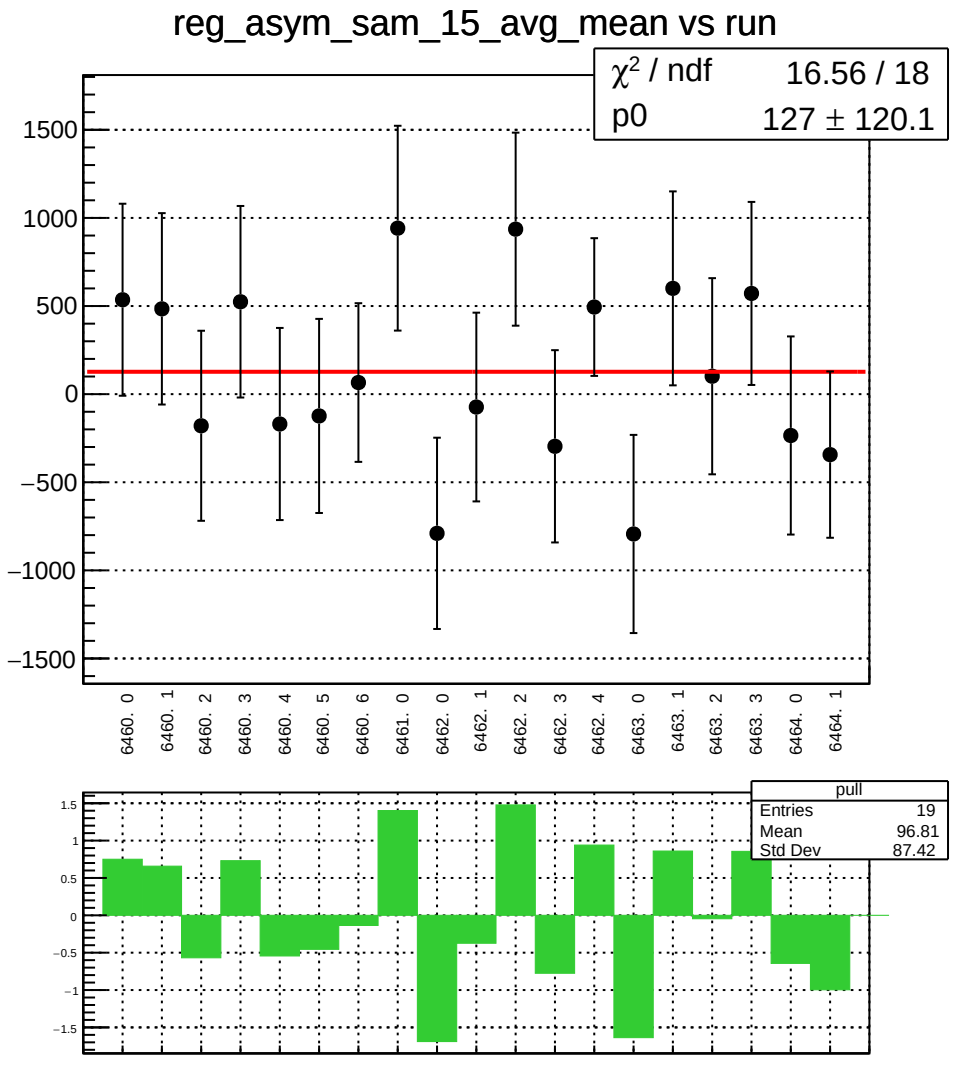

reg_asym_sam8_mean vs run
χ² / ndf 30.91 / 18
p0 248.8 ± 132.9
2000
1500
1000
500
0
−500
−1000
−1500
−2000
−2500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 140.7
Std Dev 130.1
2
1
0
−1
−2
−3

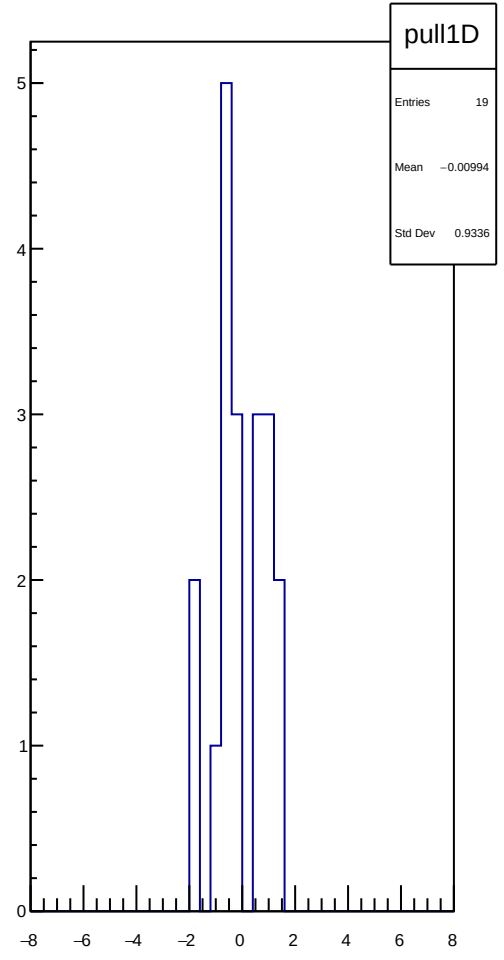

pull1D
Entries 19
Mean −0.02329
Std Dev 1.275
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

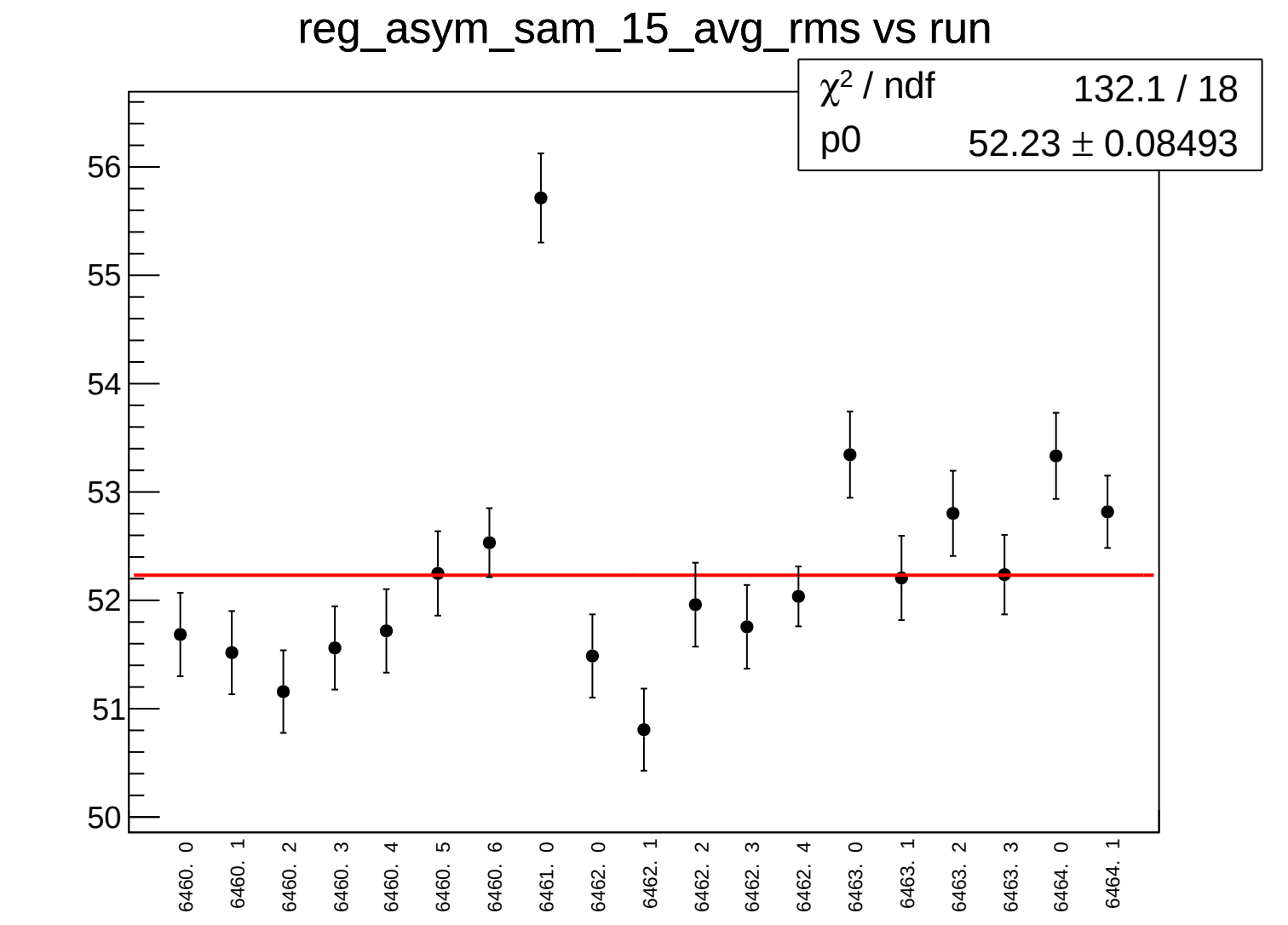

reg_asym_sam8_rms vs run
χ² / ndf 42.3 / 18
p0 57.78 ± 0.09394
59.5
59
58.5
58
57.5
57
56.5
56
55.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

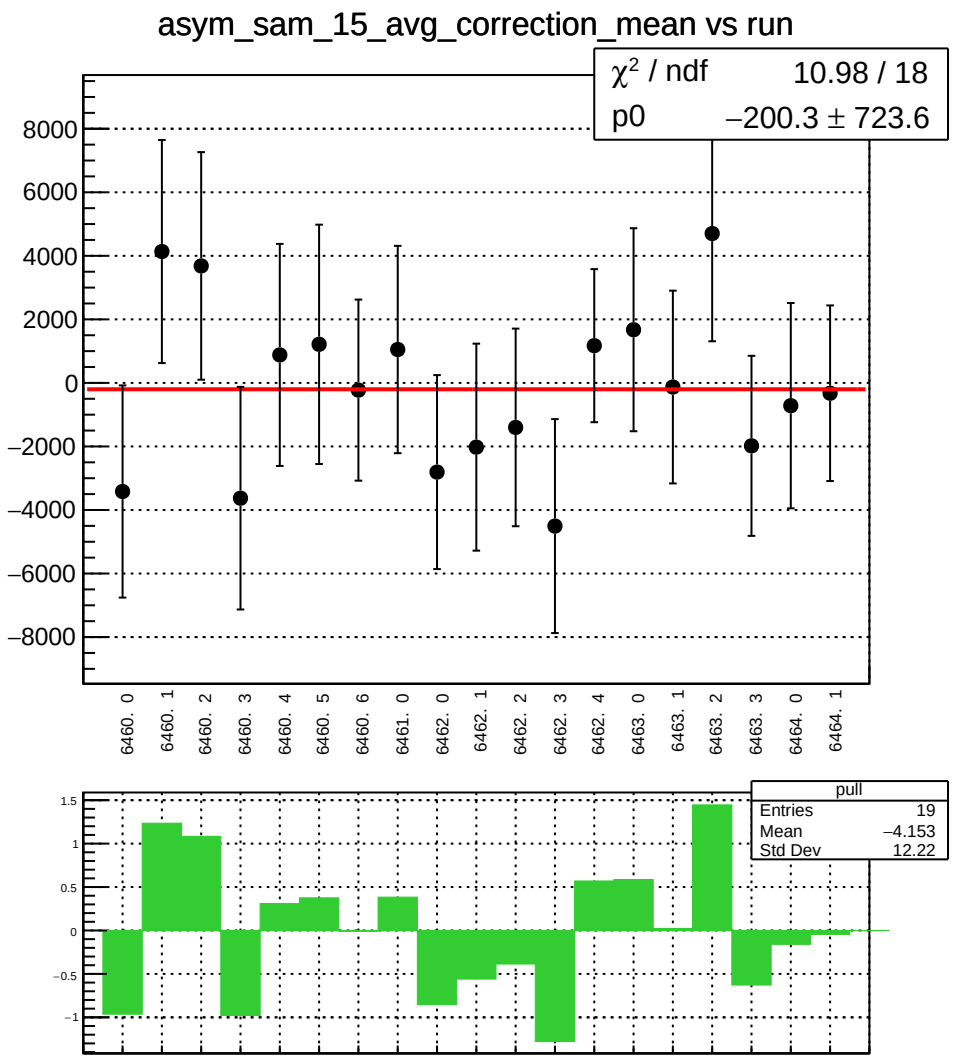

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

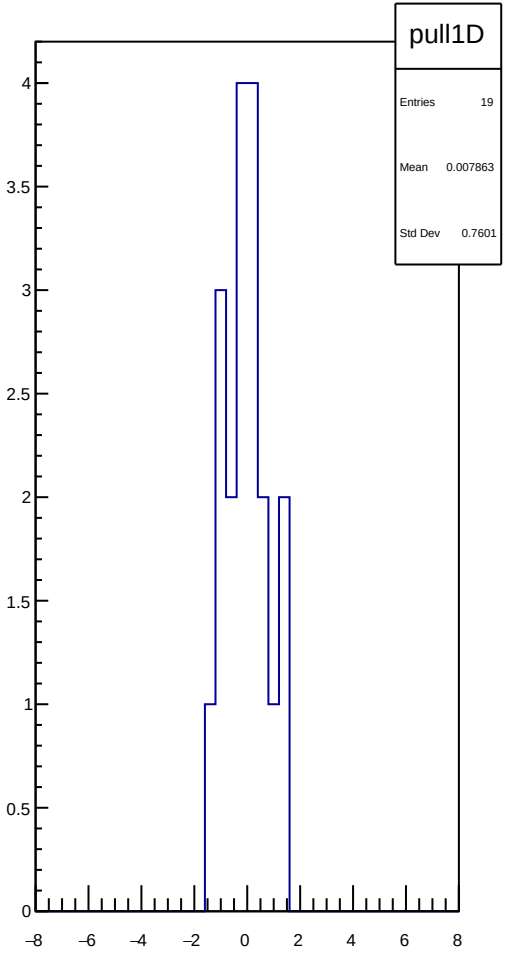

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

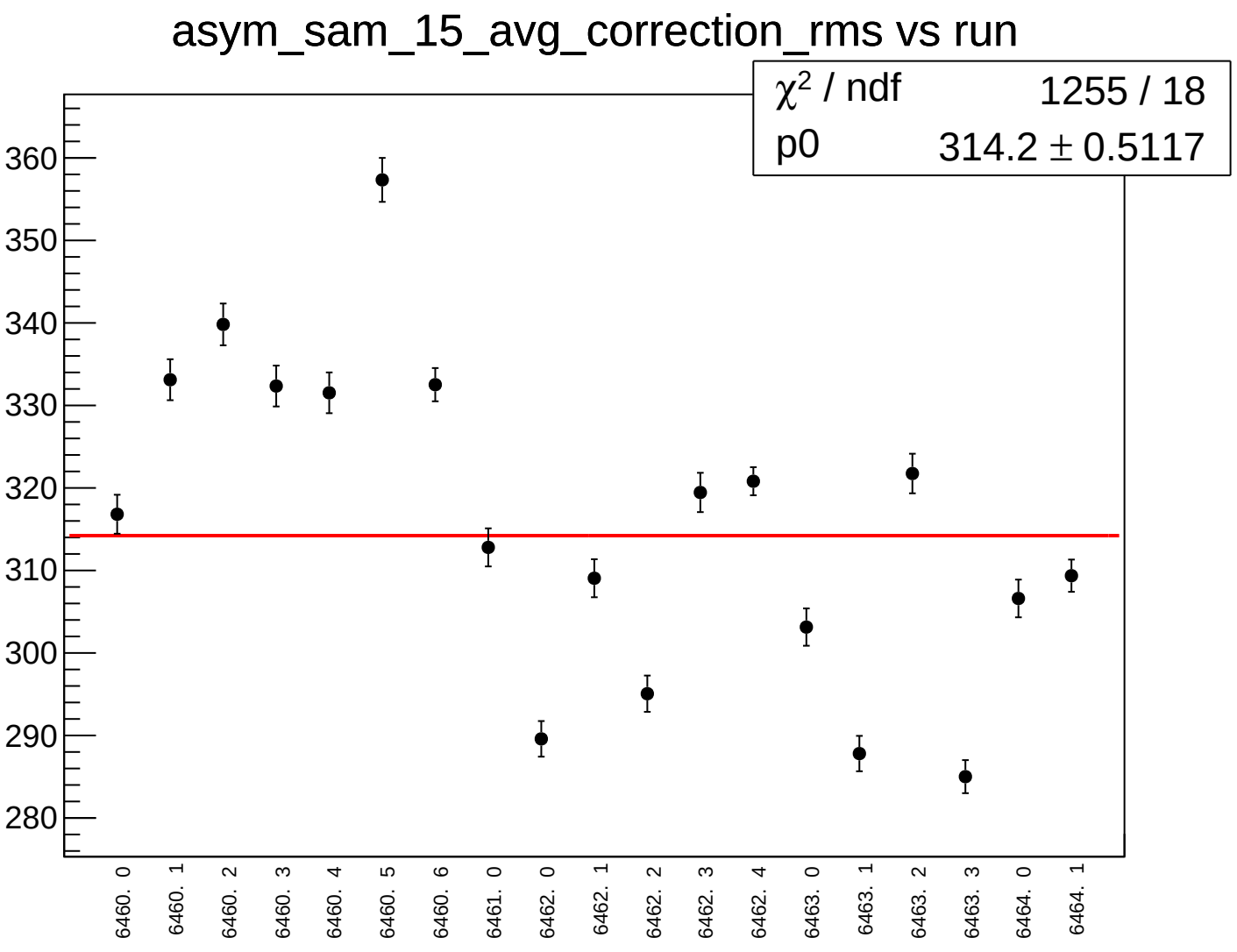

reg_asym_sam_15_avg_mean vs run
χ² / ndf 16.56 / 18
p0 127 ± 120.1
1500
1000
500
0
−500
−1000
−1500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 96.81
Std Dev 87.42
1.5
1
0.5
0
−0.5
−1
−1.5

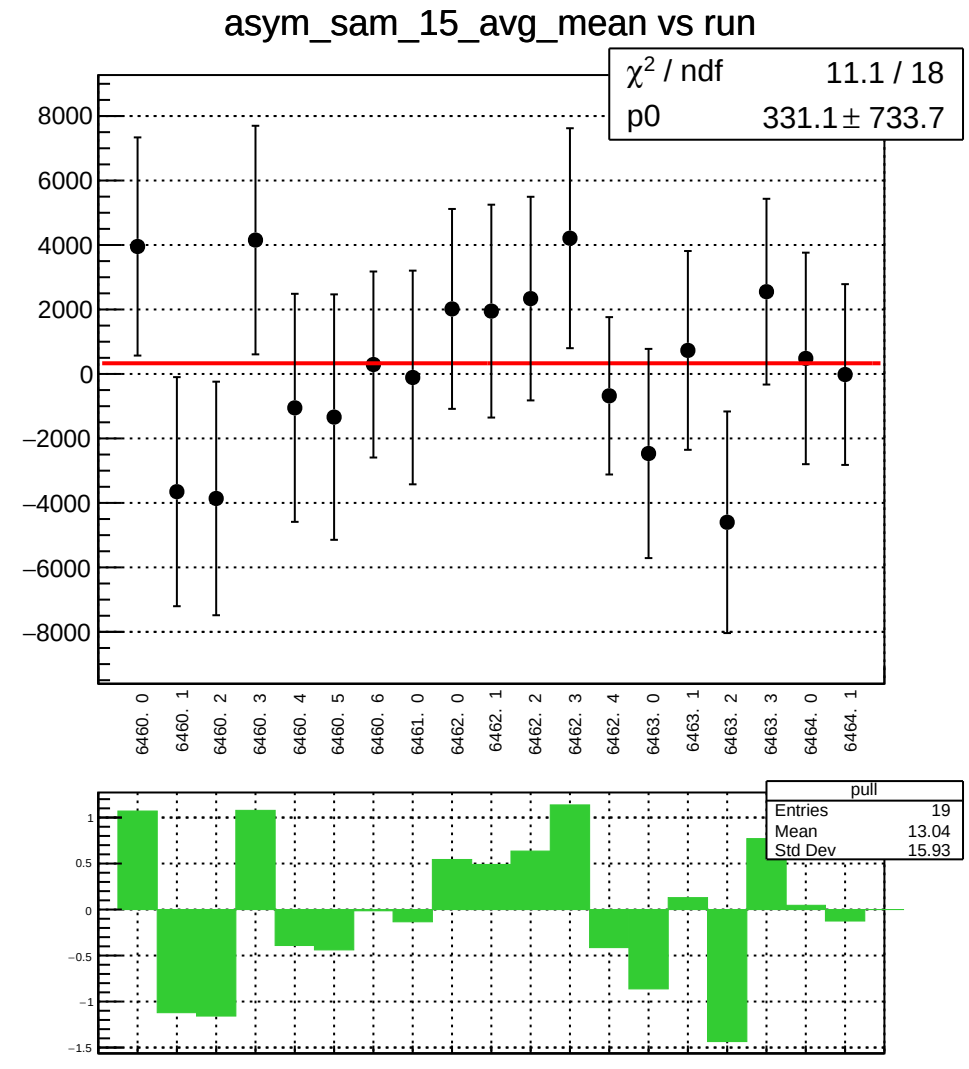

pull1D
Entries 19
Mean −0.00994
Std Dev 0.9336
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

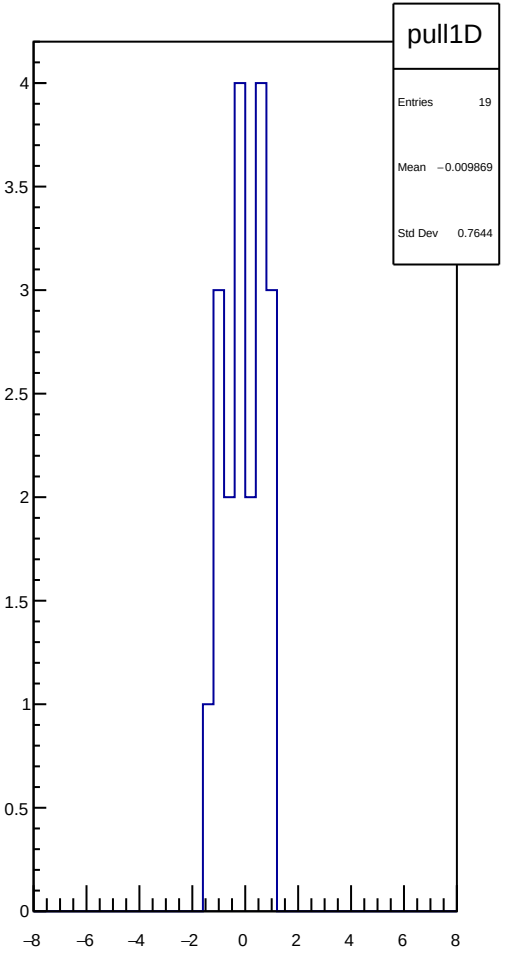

reg_asym_sam_15_avg_rms vs run
χ² / ndf 132.1 / 18
p0 52.23 ± 0.08493
56
55
54
53
52
51
50
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

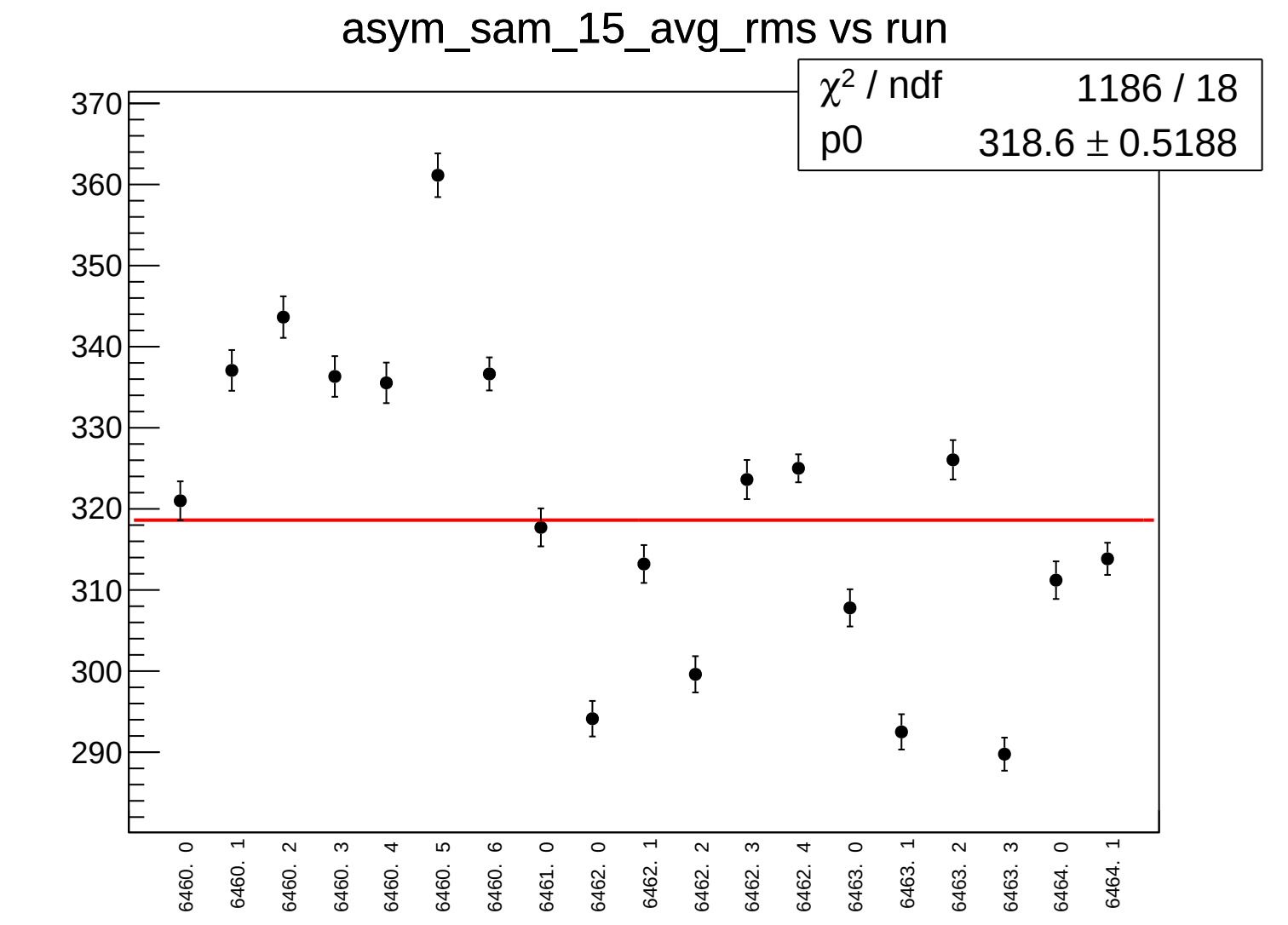

asym_sam_15_avg_correction_mean vs run
χ² / ndf 10.98 / 18
p0 −200.3 ± 723.6
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −4.153
Std Dev 12.22
1.5
1
0.5
0
−0.5
−1

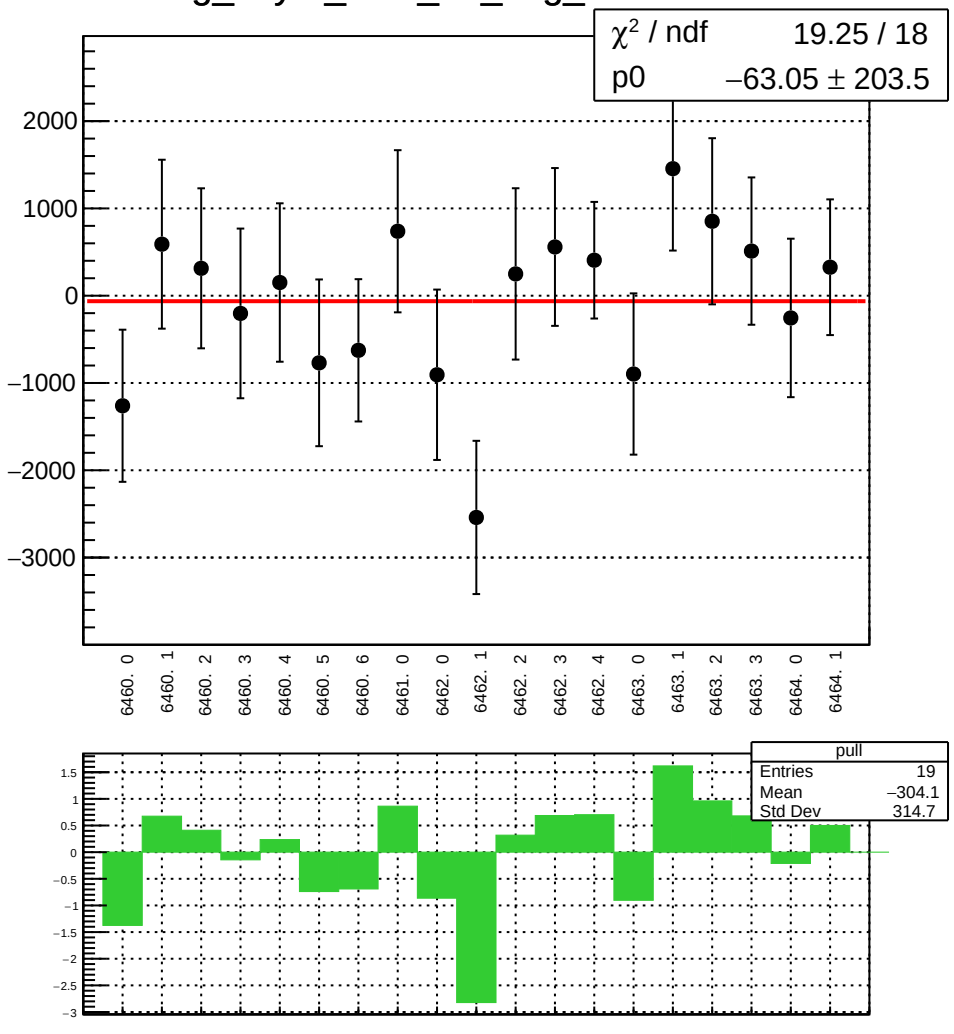

pull1D
Entries 19
Mean 0.007863
Std Dev 0.7601
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

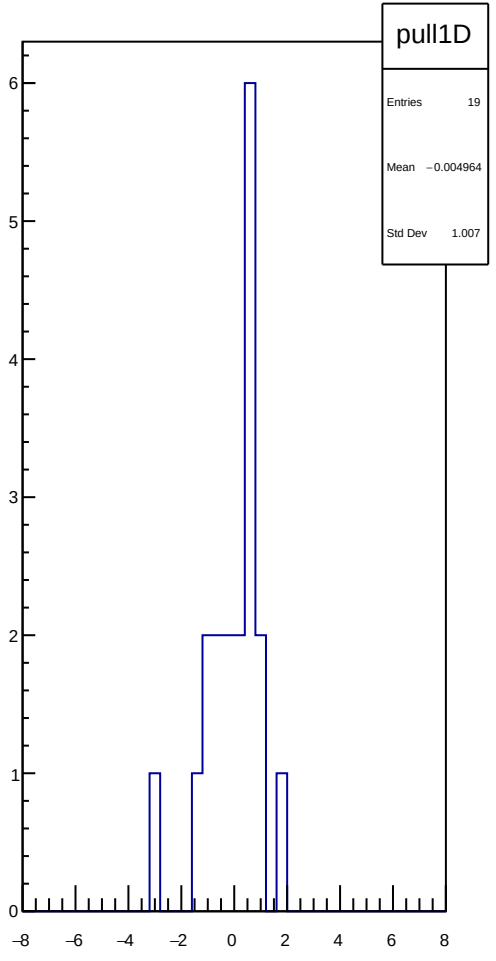

asym_sam_15_avg_correction_rms vs run
χ² / ndf 1255 / 18
p0 314.2 ± 0.5117
360
350
340
330
320
310
300
290
280
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

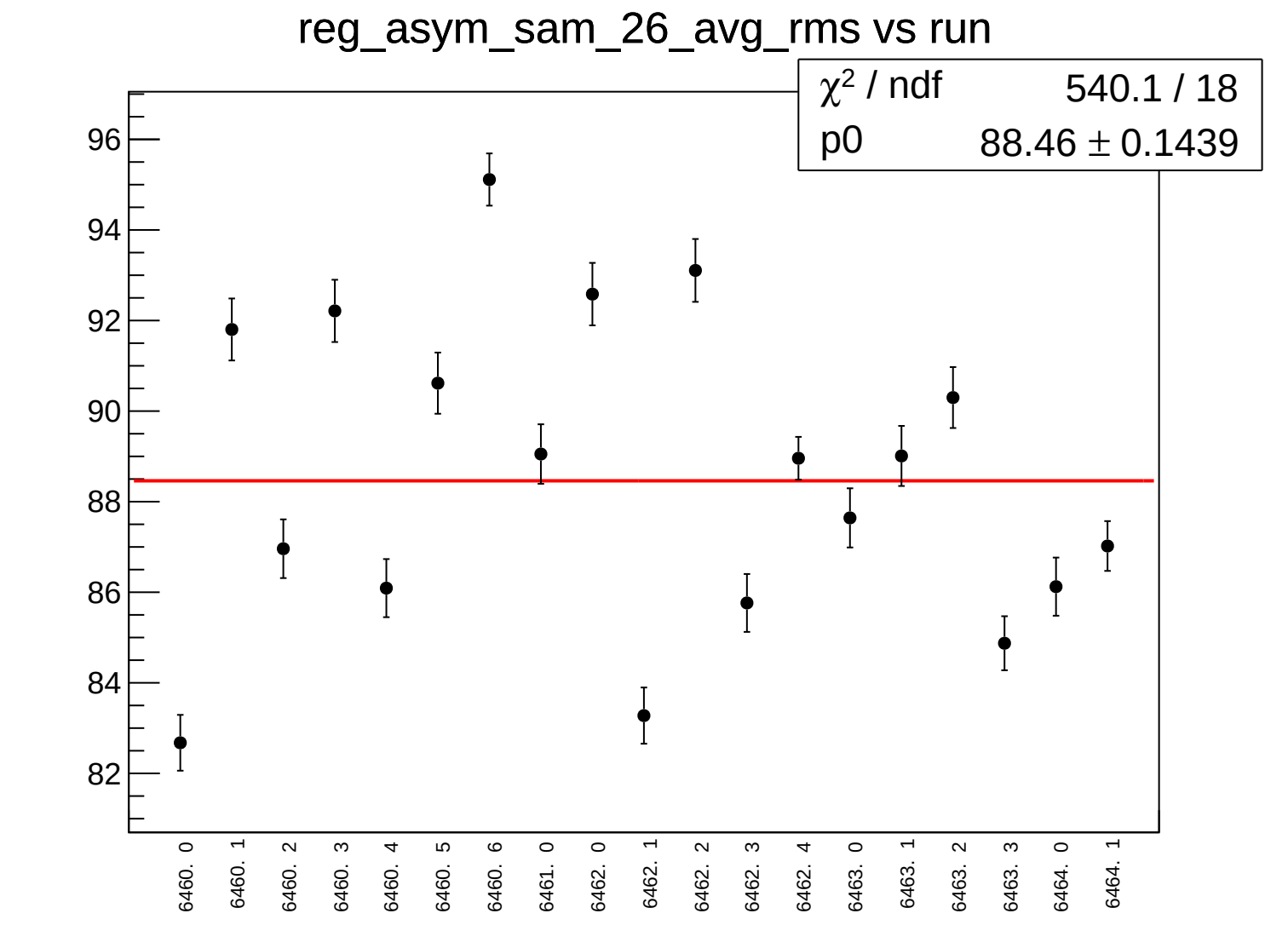

asym_sam_15_avg_mean vs run
χ² / ndf 11.1 / 18
p0 331.1 ± 733.7
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 13.04
Std Dev 15.93
1
0.5
0
−0.5
−1
−1.5

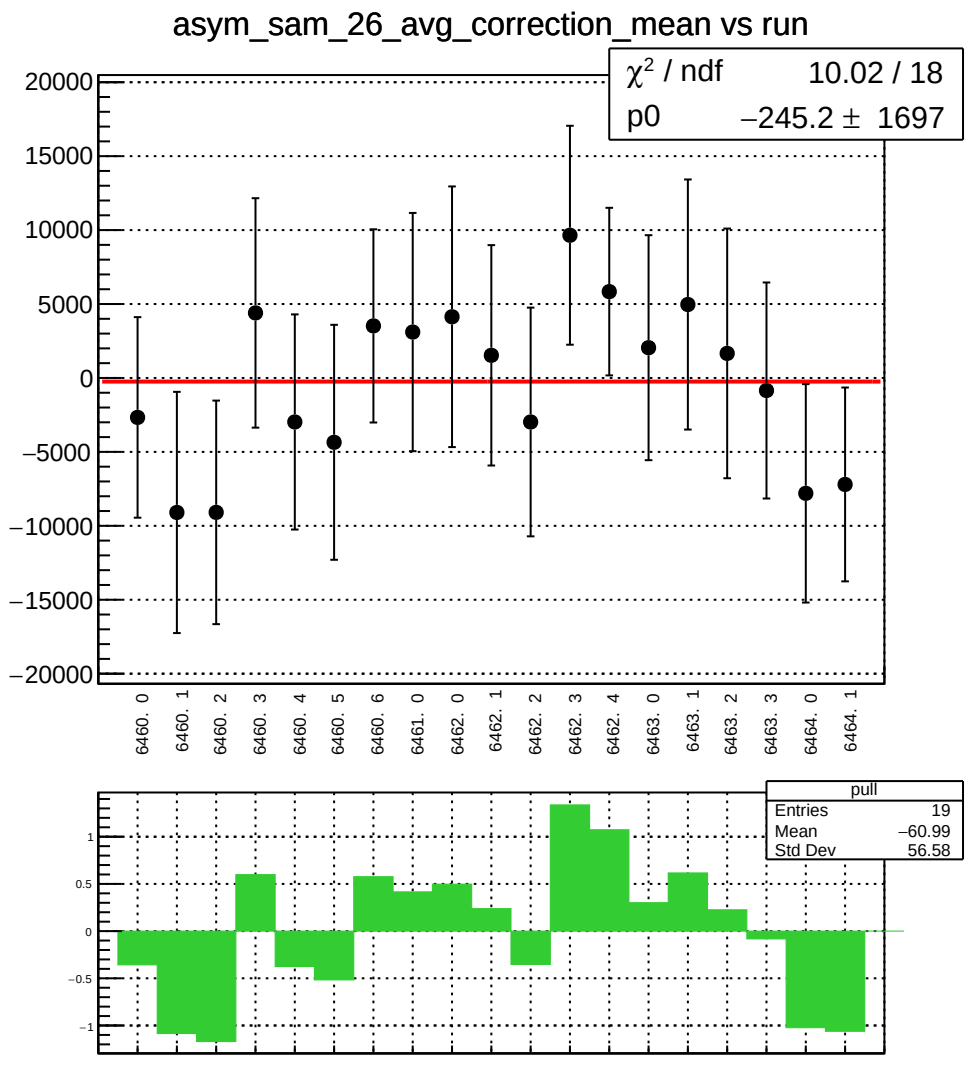

pull1D
Entries 19
Mean −0.009869
Std Dev 0.7644
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

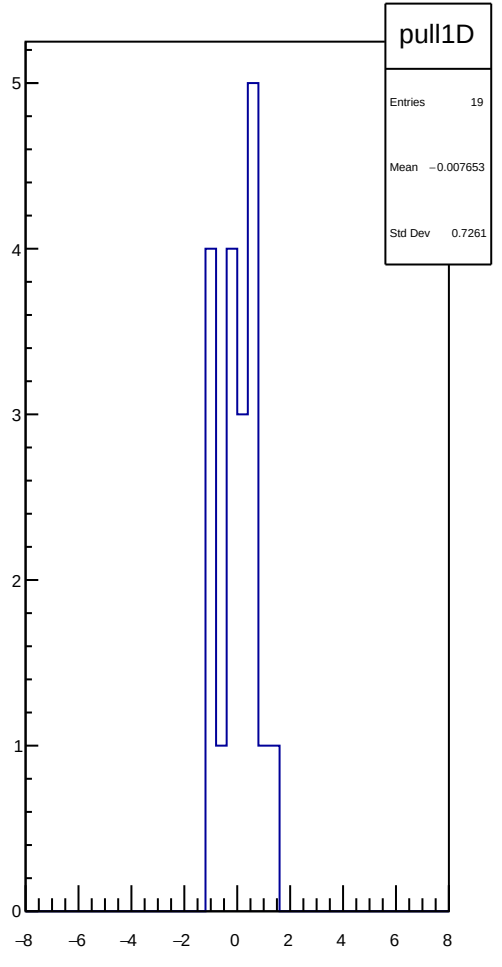

asym_sam_15_avg_rms vs run
χ² / ndf 1186 / 18
p0 318.6 ± 0.5188
370
360
350
340
330
320
310
300
290
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

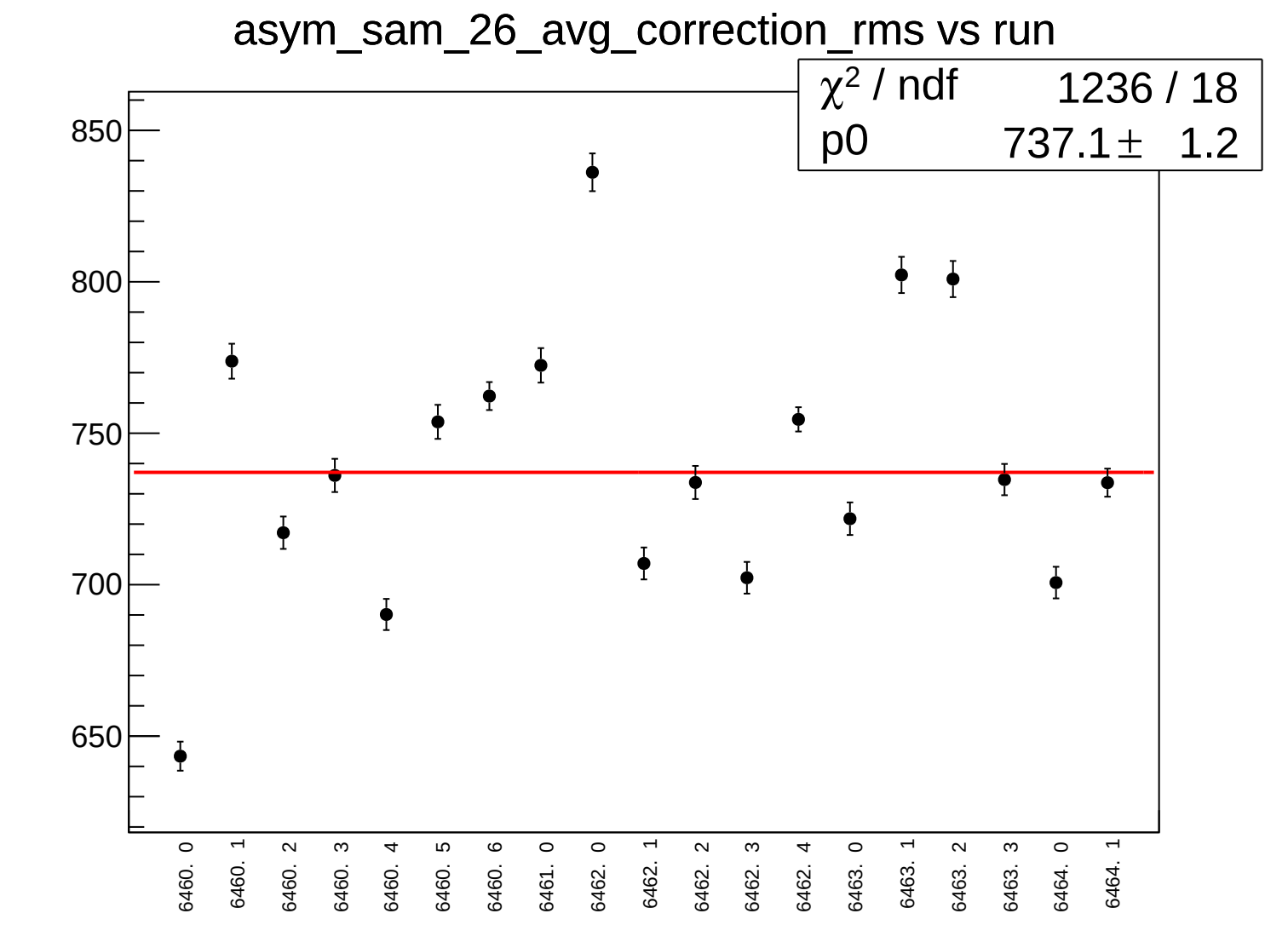

reg_asym_sam_26_avg_mean vs run
χ² / ndf 19.25 / 18
p0 −63.05 ± 203.5
2000
1000
0
−1000
−2000
−3000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −304.1
Std Dev 314.7
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

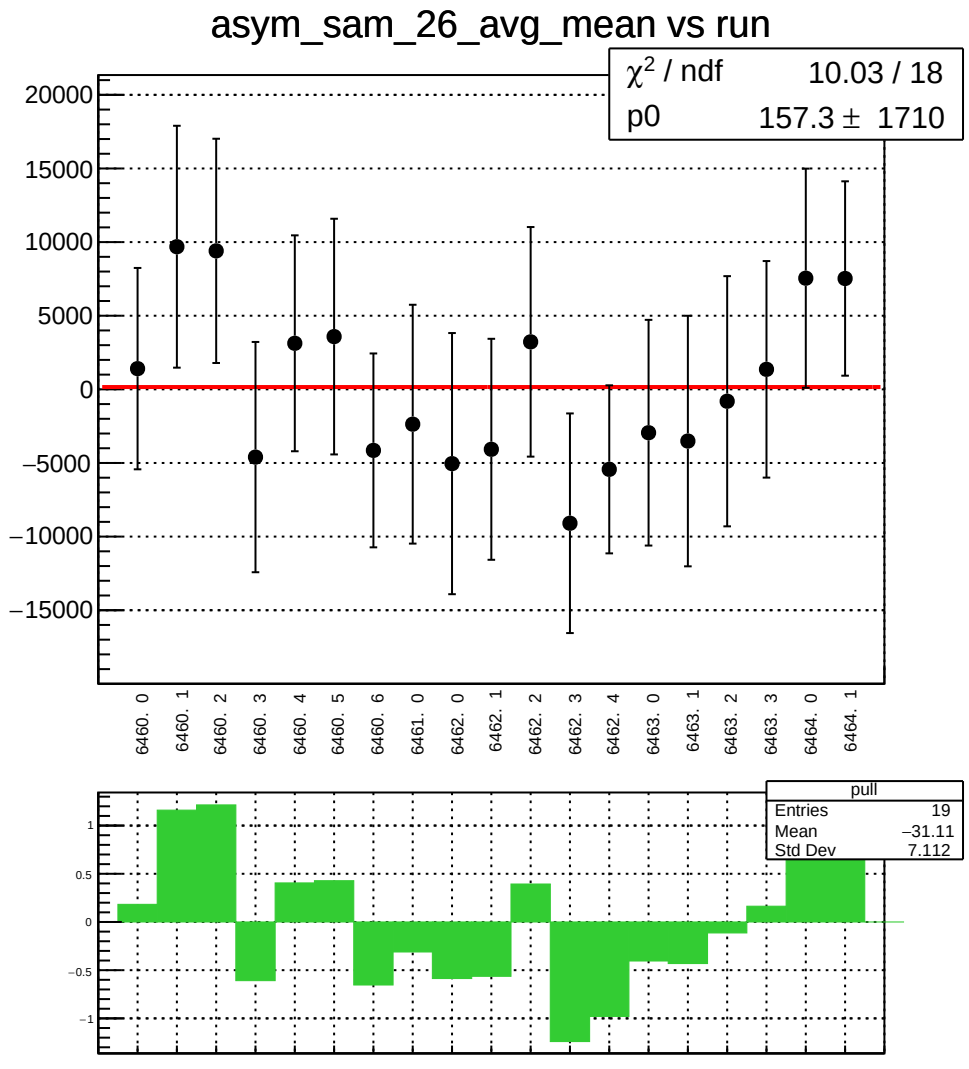

pull1D
Entries 19
Mean −0.004964
Std Dev 1.007
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

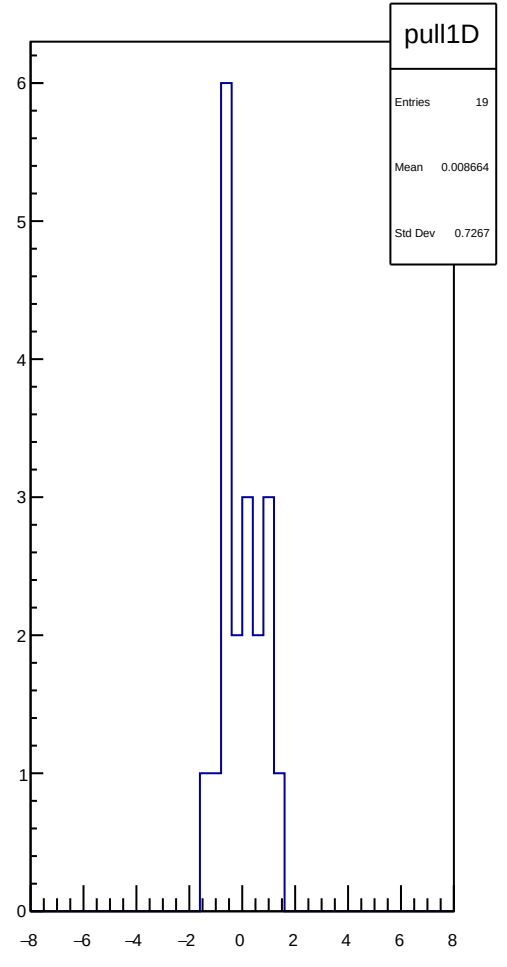

reg_asym_sam_26_avg_rms vs run
χ² / ndf 540.1 / 18
p0 88.46 ± 0.1439
96
94
92
90
88
86
84
82
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

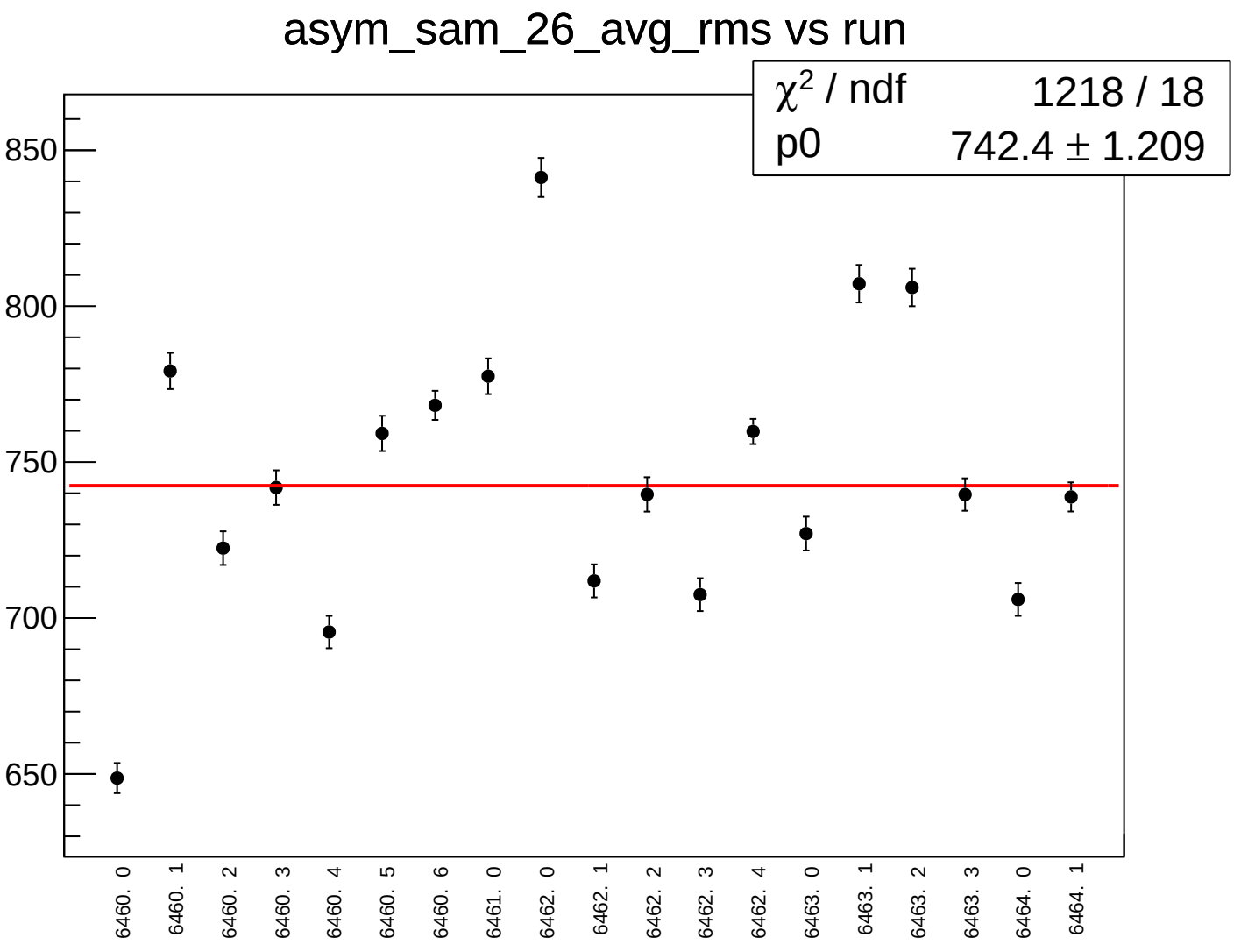

asym_sam_26_avg_correction_mean vs run
χ² / ndf 10.02 / 18
p0 −245.2 ± 1697
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −60.99
Std Dev 56.58
1
0.5
0
−0.5
−1

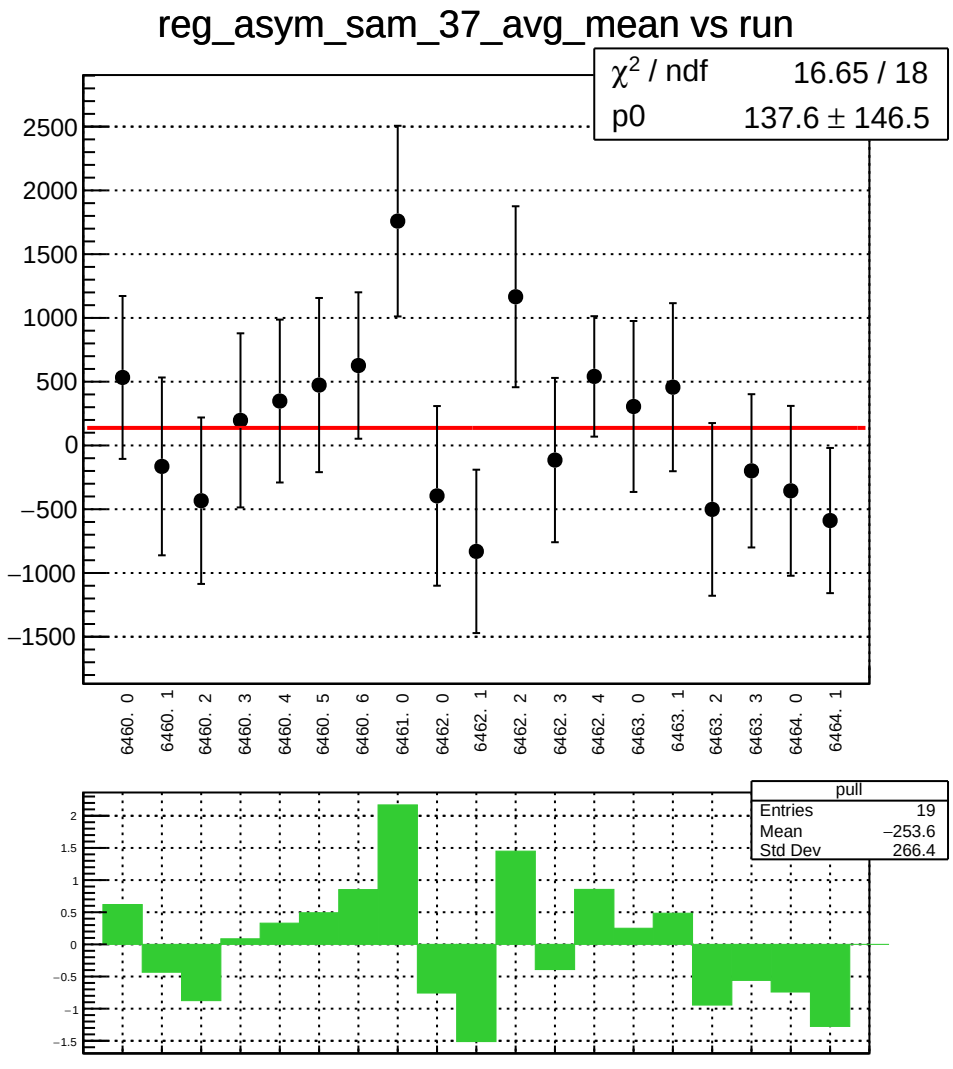

pull1D
Entries 19
Mean −0.007653
Std Dev 0.7261
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

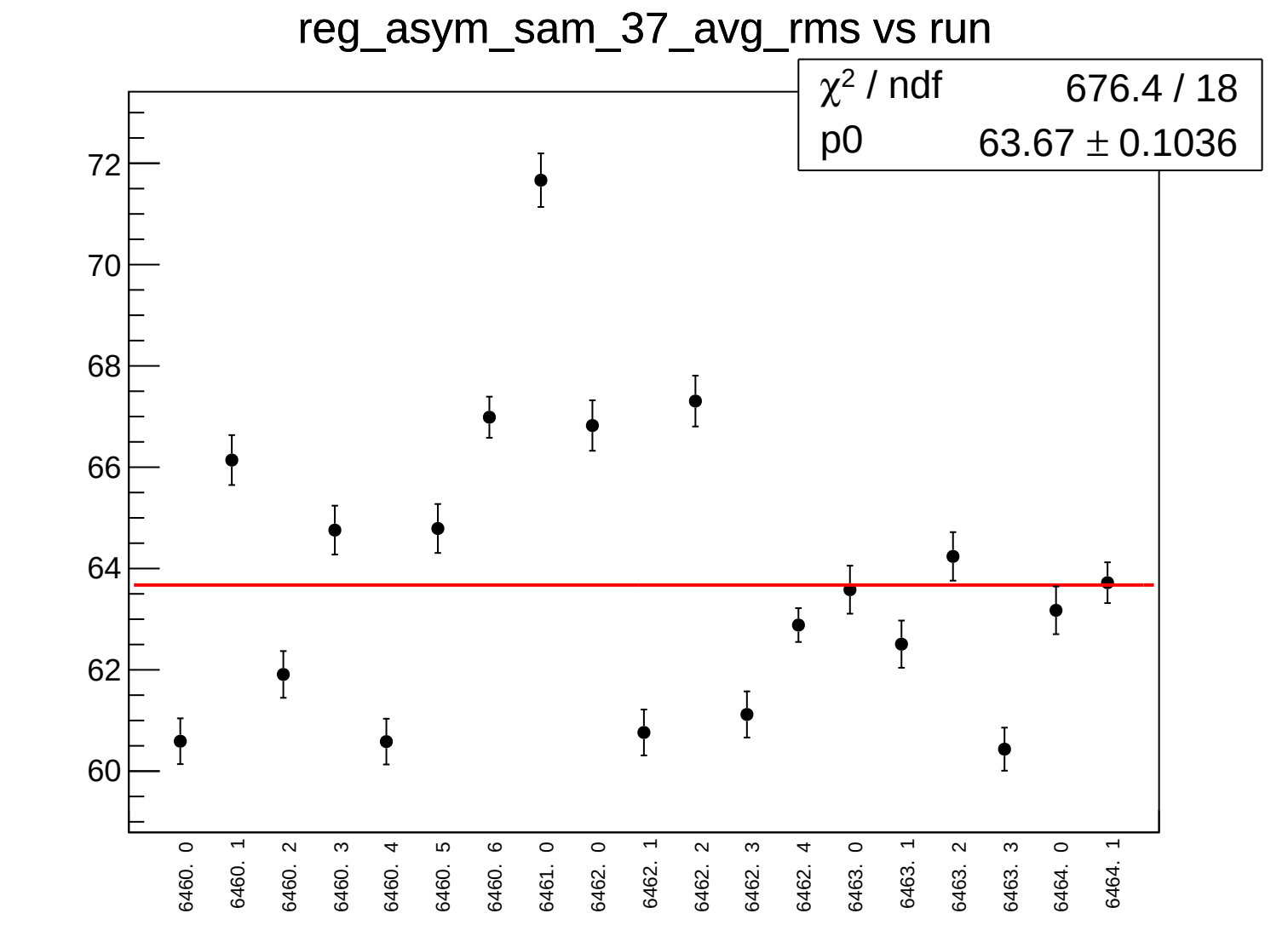

asym_sam_26_avg_correction_rms vs run
χ² / ndf 1236 / 18
p0 737.1 ± 1.2
850
800
750
700
650
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

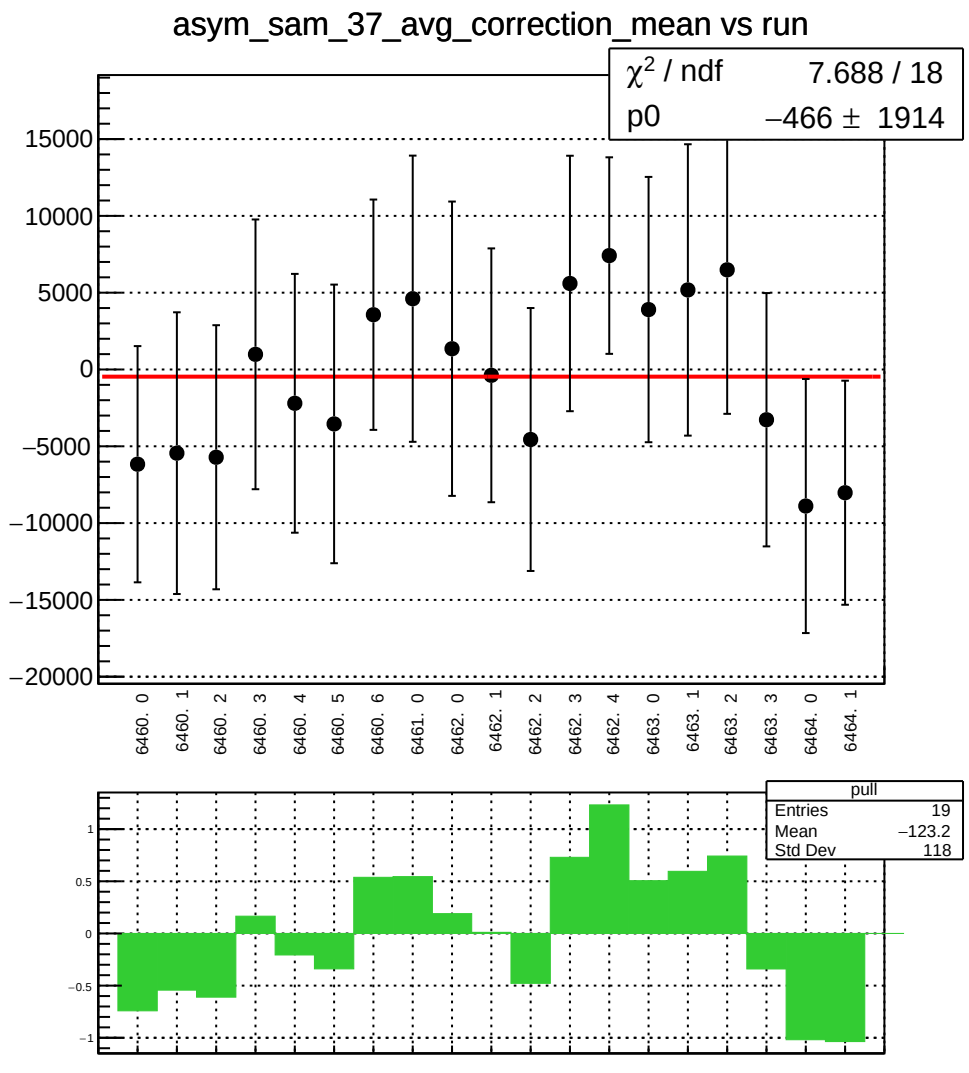

asym_sam_26_avg_mean vs run
χ² / ndf 10.03 / 18
p0 157.3 ± 1710
20000
15000
10000
5000
0
−5000
−10000
−15000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −31.11
Std Dev 7.112
1
0.5
0
−0.5
−1

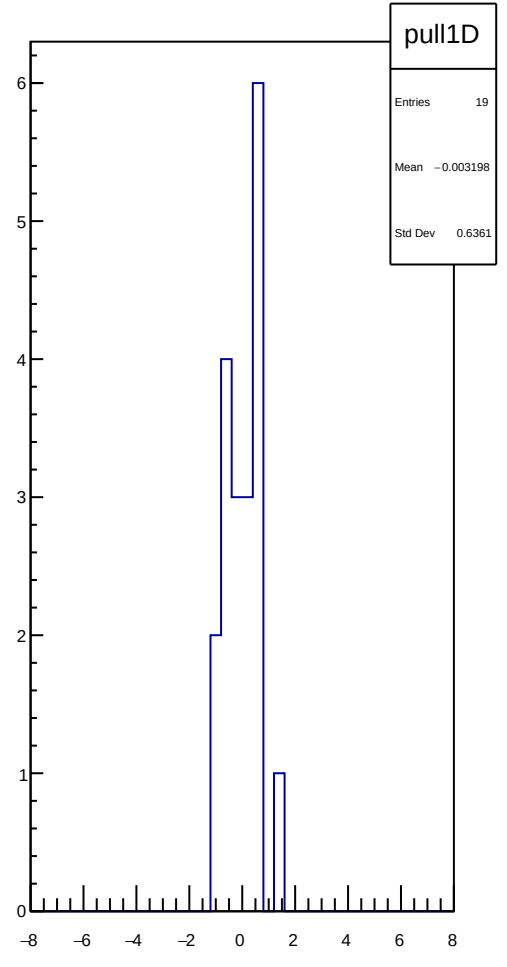

pull1D
Entries 19
Mean 0.008664
Std Dev 0.7267
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

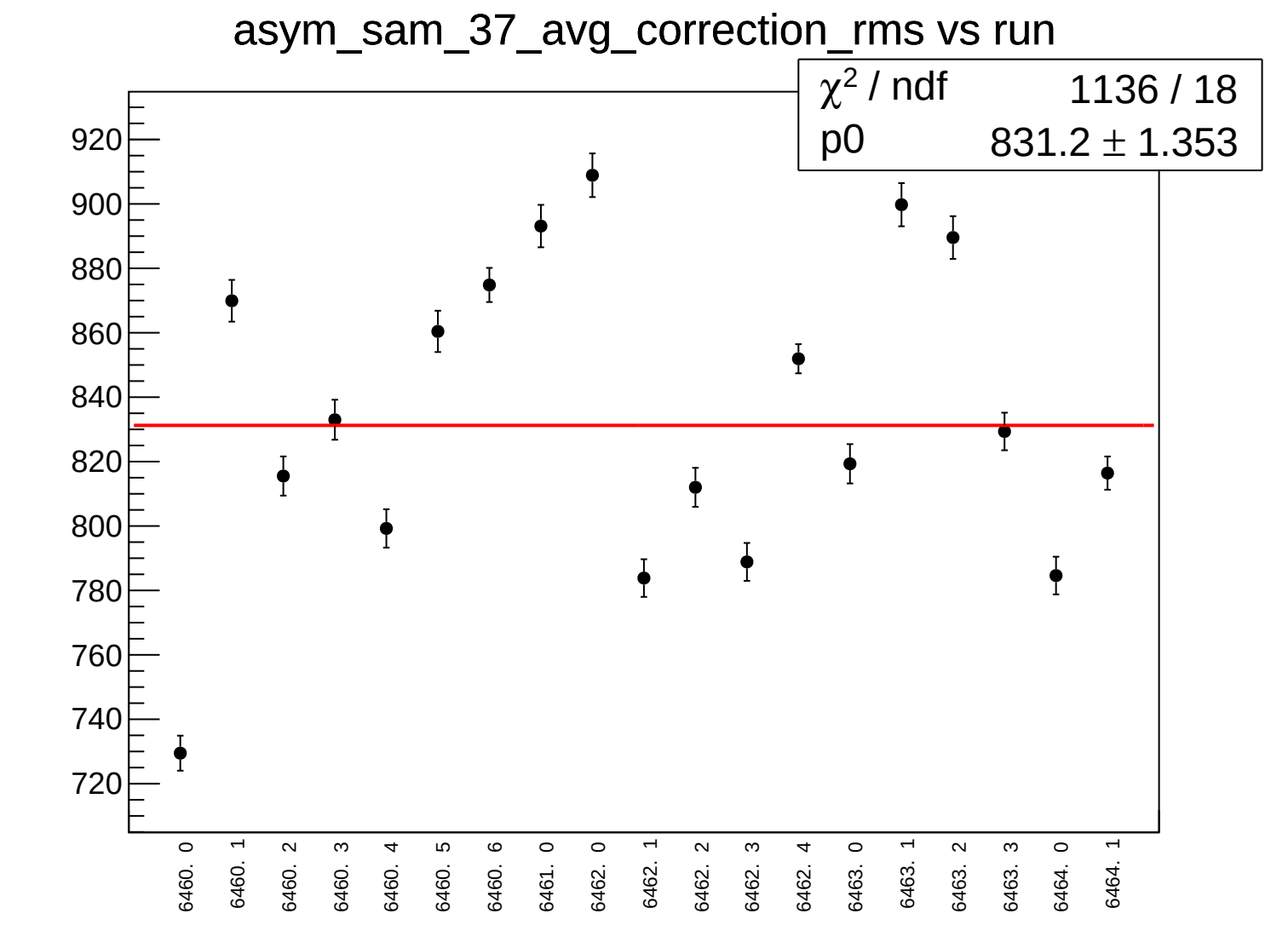

asym_sam_26_avg_rms vs run
χ² / ndf 1218 / 18
p0 742.4 ± 1.209
850
800
750
700
650
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

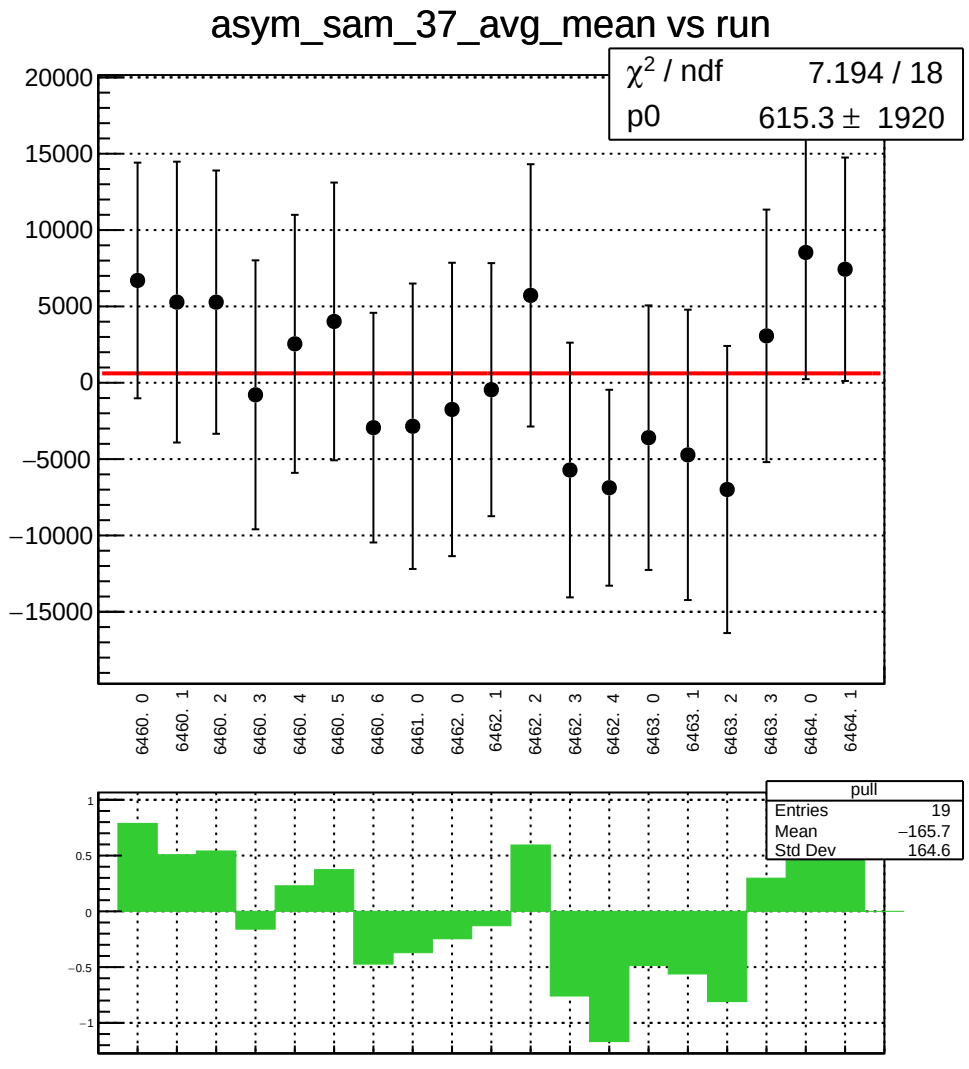

reg_asym_sam_37_avg_mean vs run
χ² / ndf 16.65 / 18
p0 137.6 ± 146.5
2500
2000
1500
1000
500
0
−500
−1000
−1500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −253.6
Std Dev 266.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 19
Mean 0.00532
Std Dev 0.9361
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

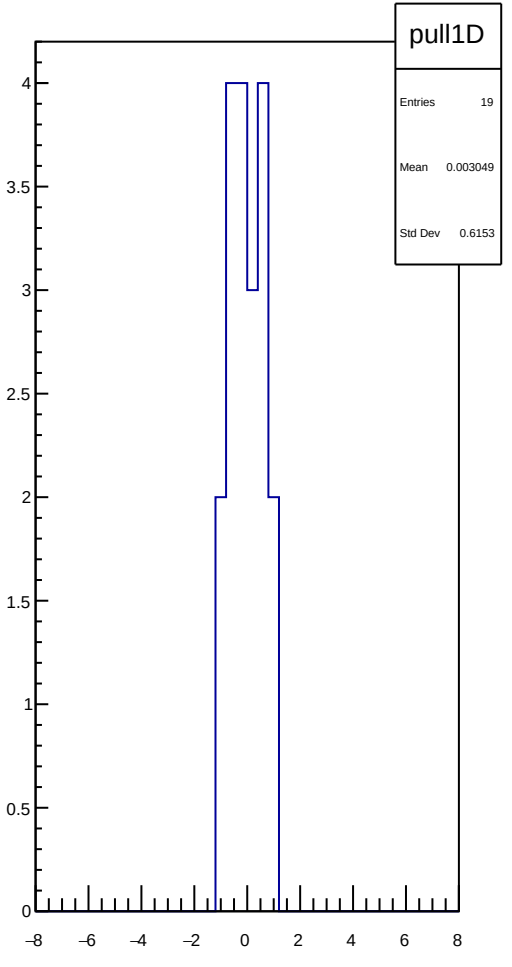

reg_asym_sam_37_avg_rms vs run
χ² / ndf 676.4 / 18
p0 63.67 ± 0.1036
72
70
68
66
64
62
60
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

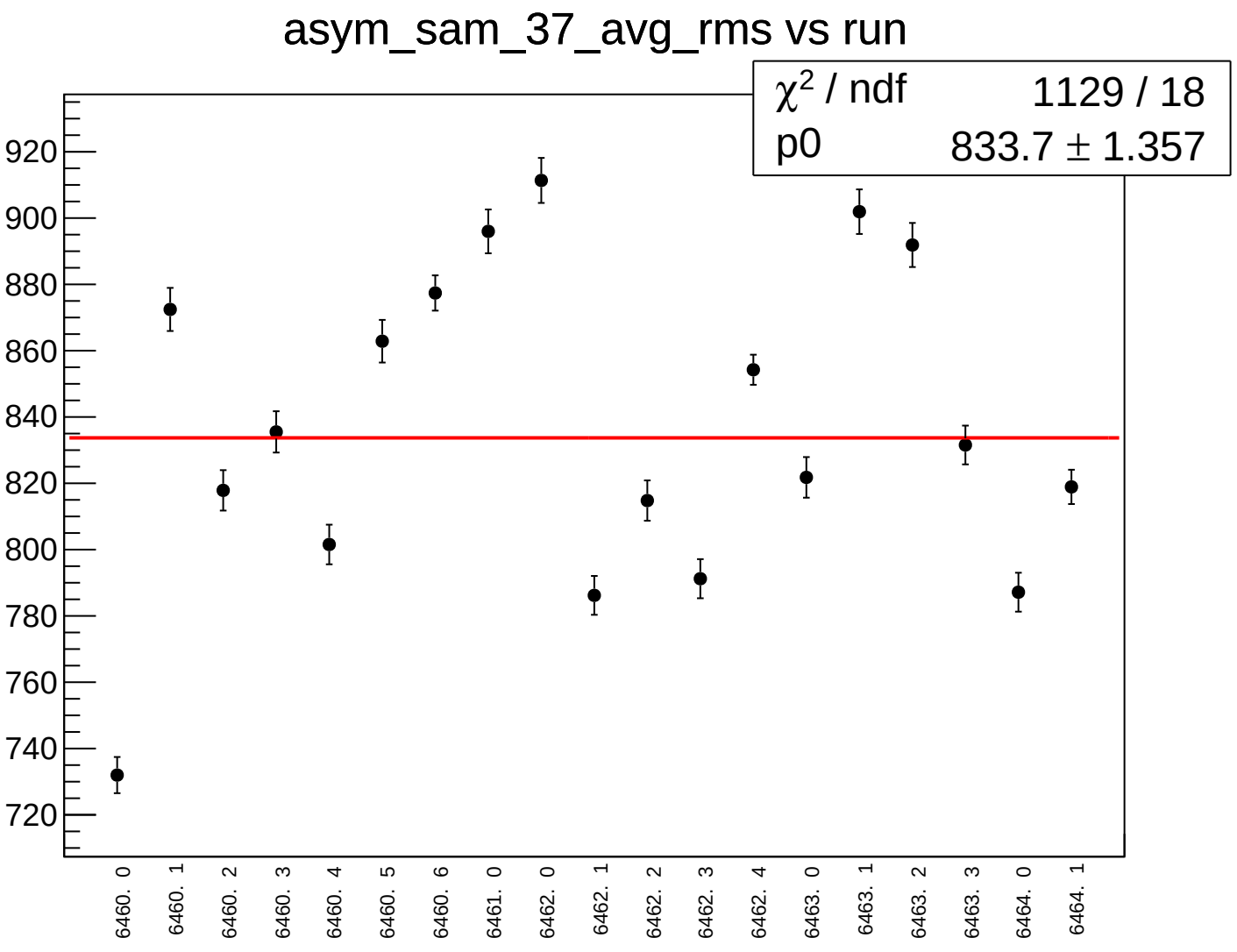

asym_sam_37_avg_correction_mean vs run
χ² / ndf 7.688 / 18
p0 −466 ± 1914
15000
10000
5000
0
−5000
−10000
−15000
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −123.2
Std Dev 118
1
0.5
0
−0.5
−1

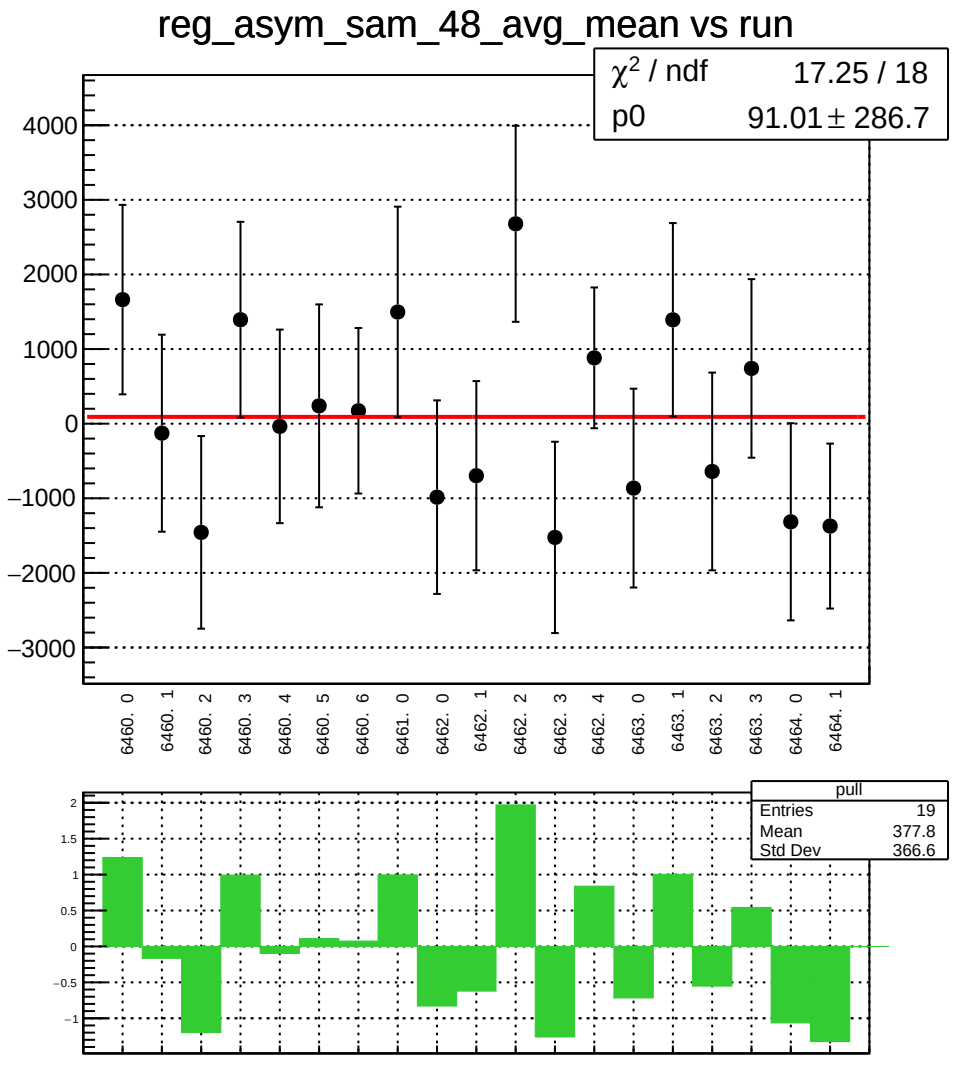

pull1D
Entries 19
Mean −0.003198
Std Dev 0.6361
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

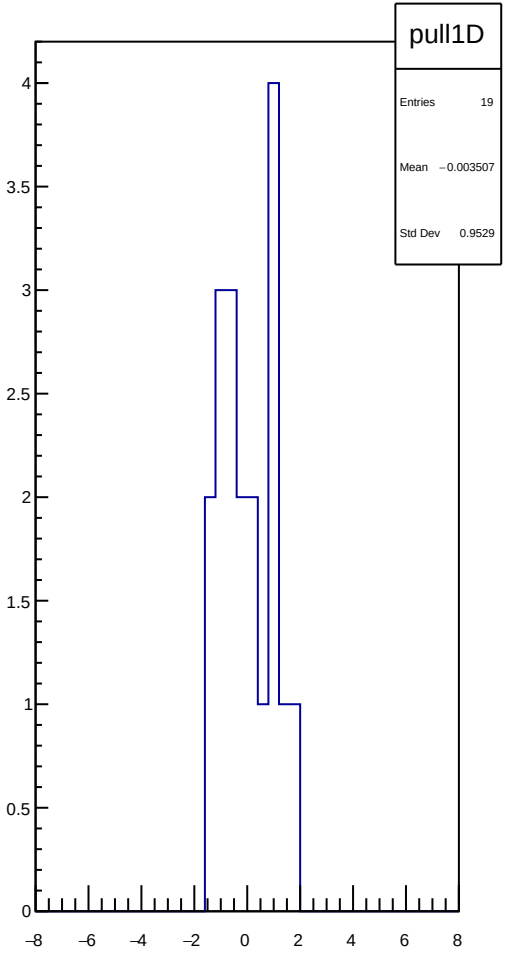

asym_sam_37_avg_correction_rms vs run
χ² / ndf 1136 / 18
p0 831.2 ± 1.353
920
900
880
860
840
820
800
780
760
740
720
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

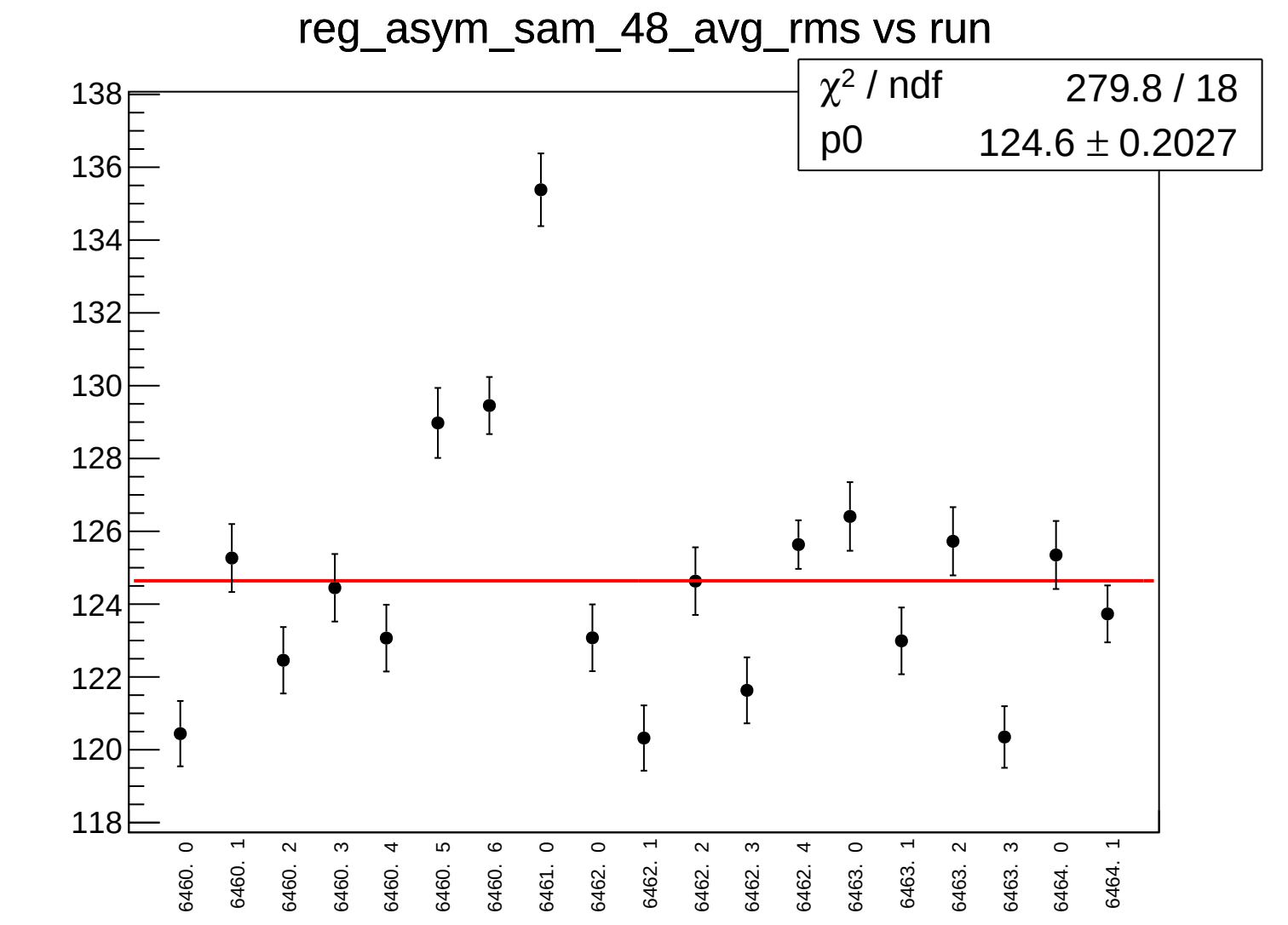

asym_sam_37_avg_mean vs run
χ² / ndf 7.194 / 18
p0 615.3 ± 1920
20000
15000
10000
5000
0
−5000
−10000
−15000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −165.7
Std Dev 164.6
1
0.5
0
−0.5
−1

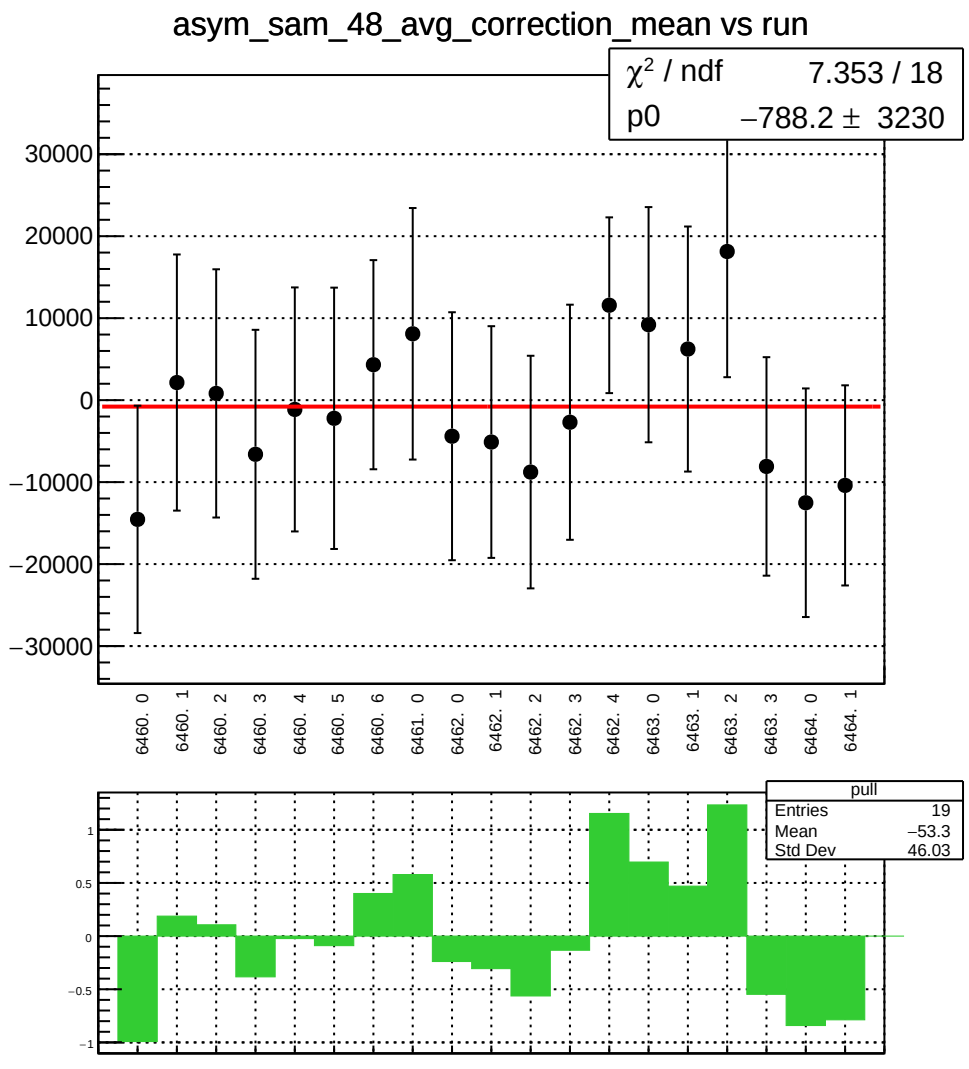

pull1D
Entries 19
Mean 0.003049
Std Dev 0.6153
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

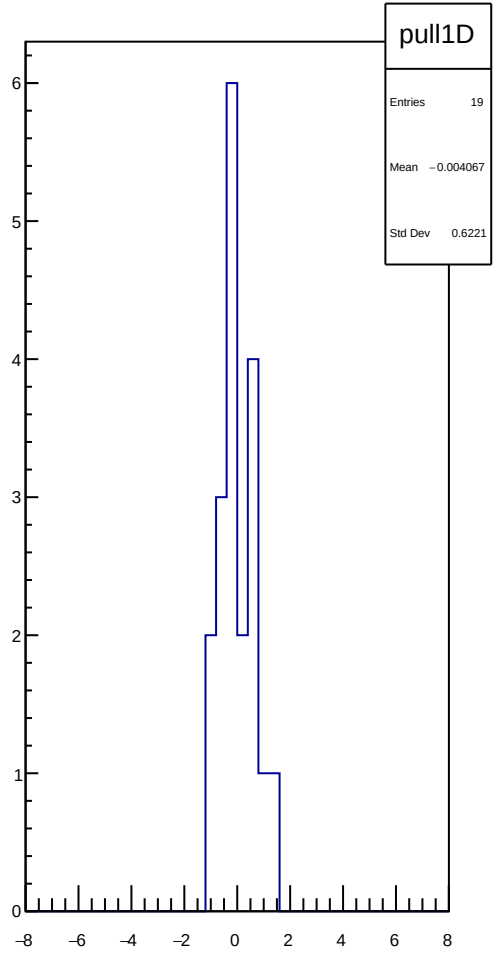

asym_sam_37_avg_rms vs run
χ² / ndf 1129 / 18
p0 833.7 ± 1.357
920
900
880
860
840
820
800
780
760
740
720
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

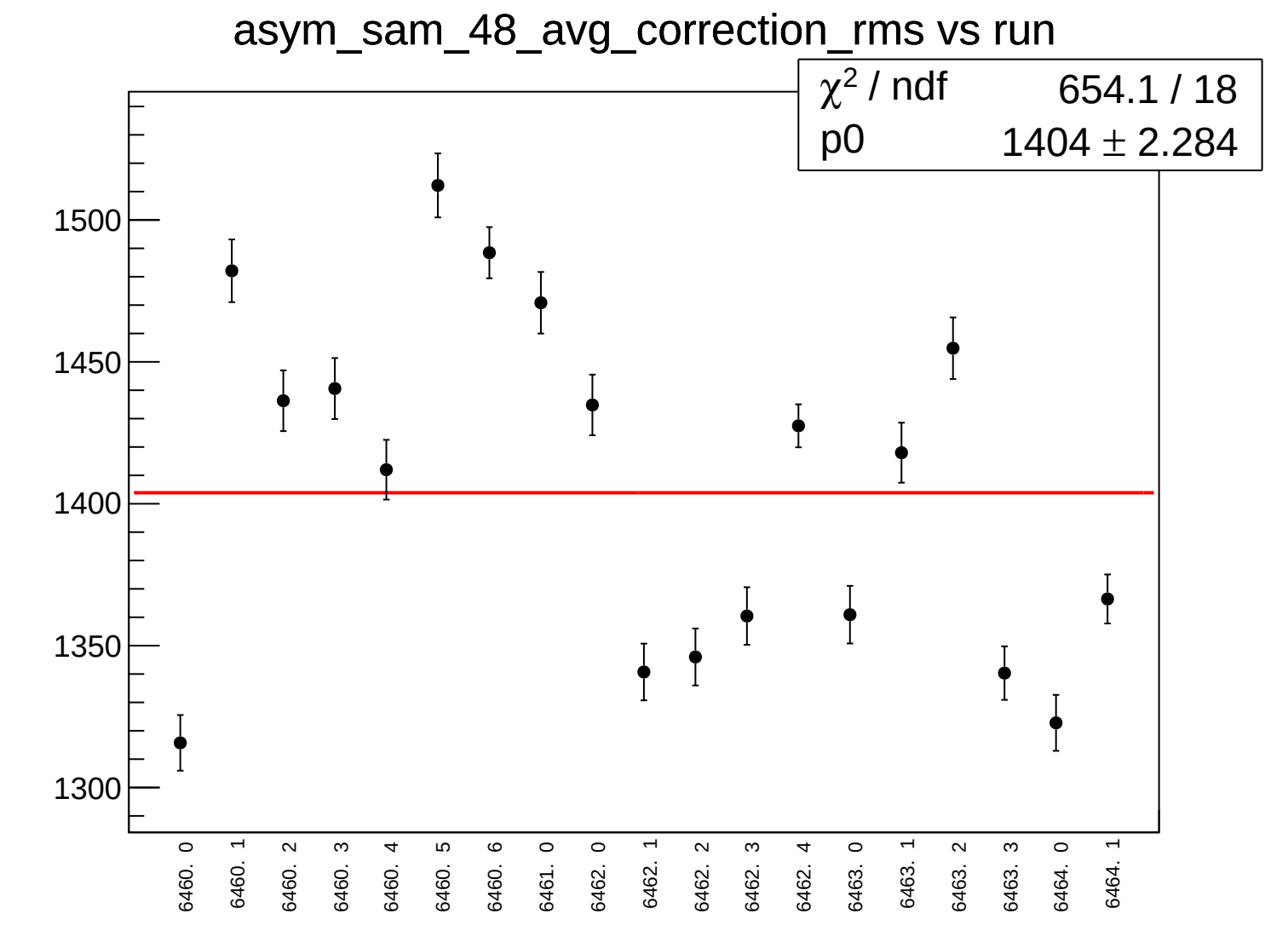

reg_asym_sam_48_avg_mean vs run
χ² / ndf 17.25 / 18
p0 91.01 ± 286.7
4000
3000
2000
1000
0
−1000
−2000
−3000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 377.8
Std Dev 366.6
2
1.5
1
0.5
0
−0.5
−1

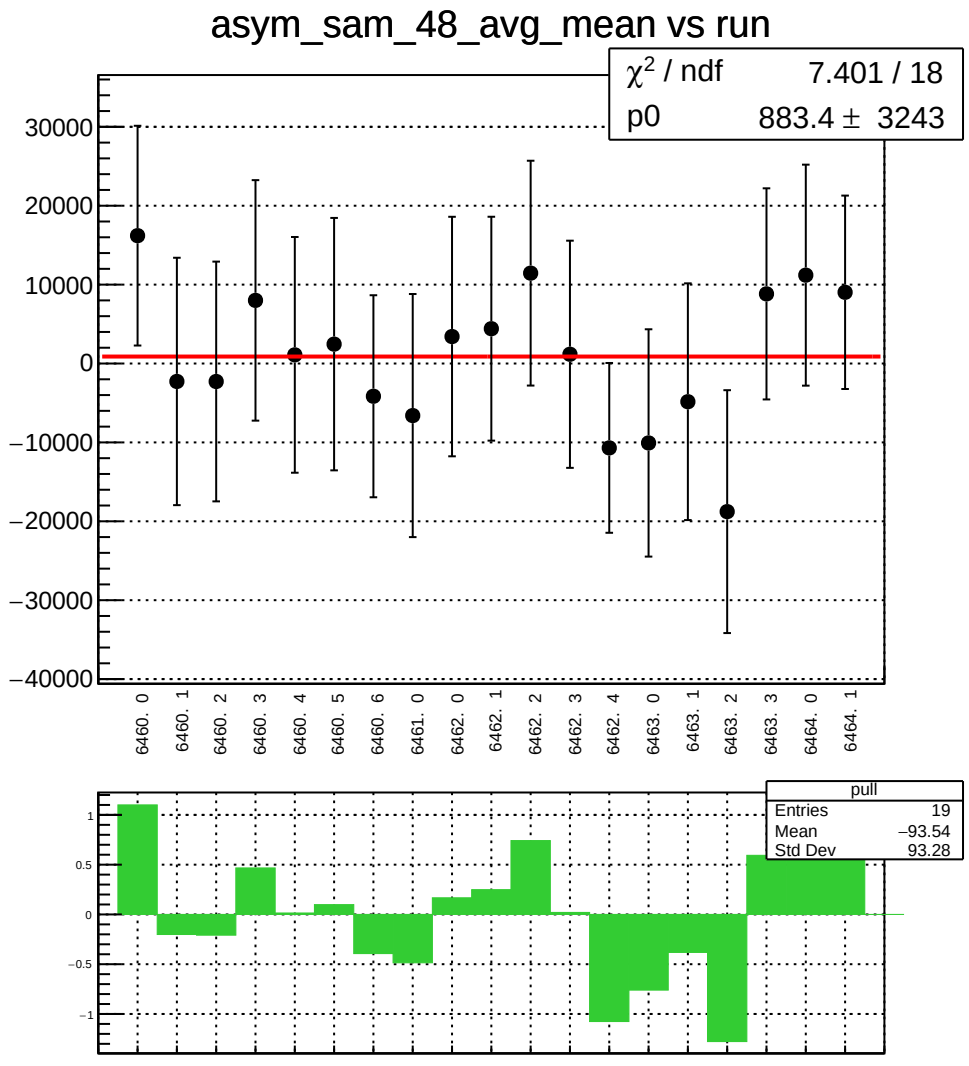

pull1D
Entries 19
Mean −0.003507
Std Dev 0.9529
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

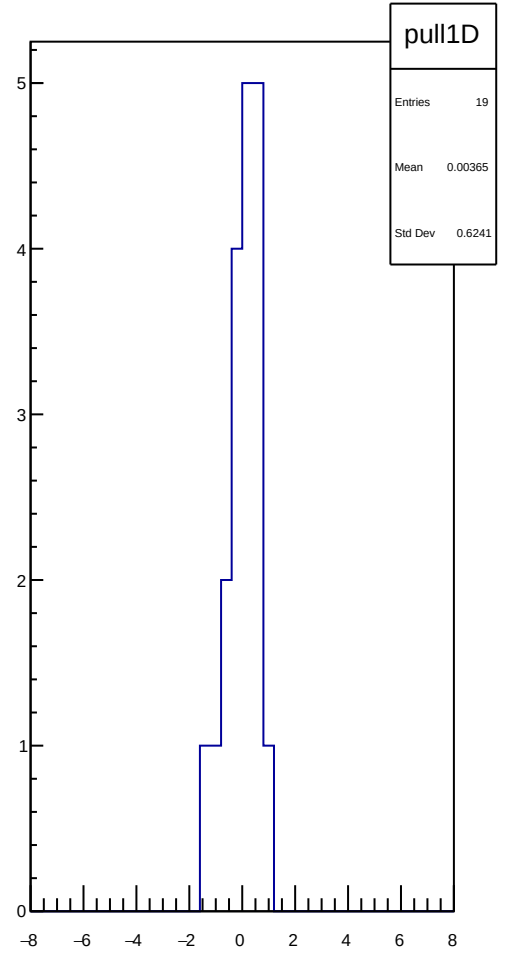

reg_asym_sam_48_avg_rms vs run
χ² / ndf 279.8 / 18
p0 124.6 ± 0.2027
138
136
134
132
130
128
126
124
122
120
118
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

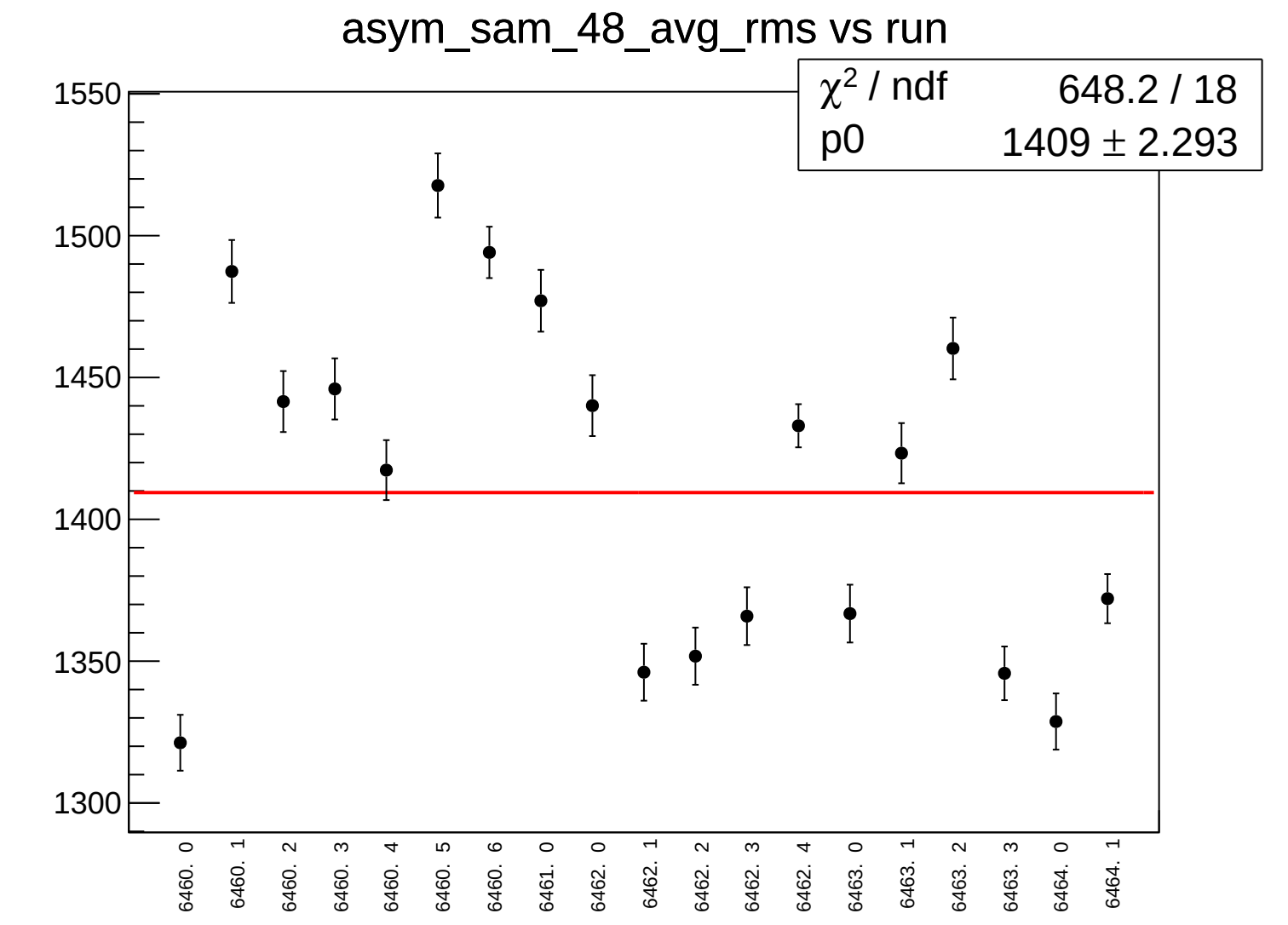

asym_sam_48_avg_correction_mean vs run
χ² / ndf 7.353 / 18
p0 −788.2 ± 3230
30000
20000
10000
0
−10000
−20000
−30000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −53.3
Std Dev 46.03
1
0.5
0
−0.5
−1

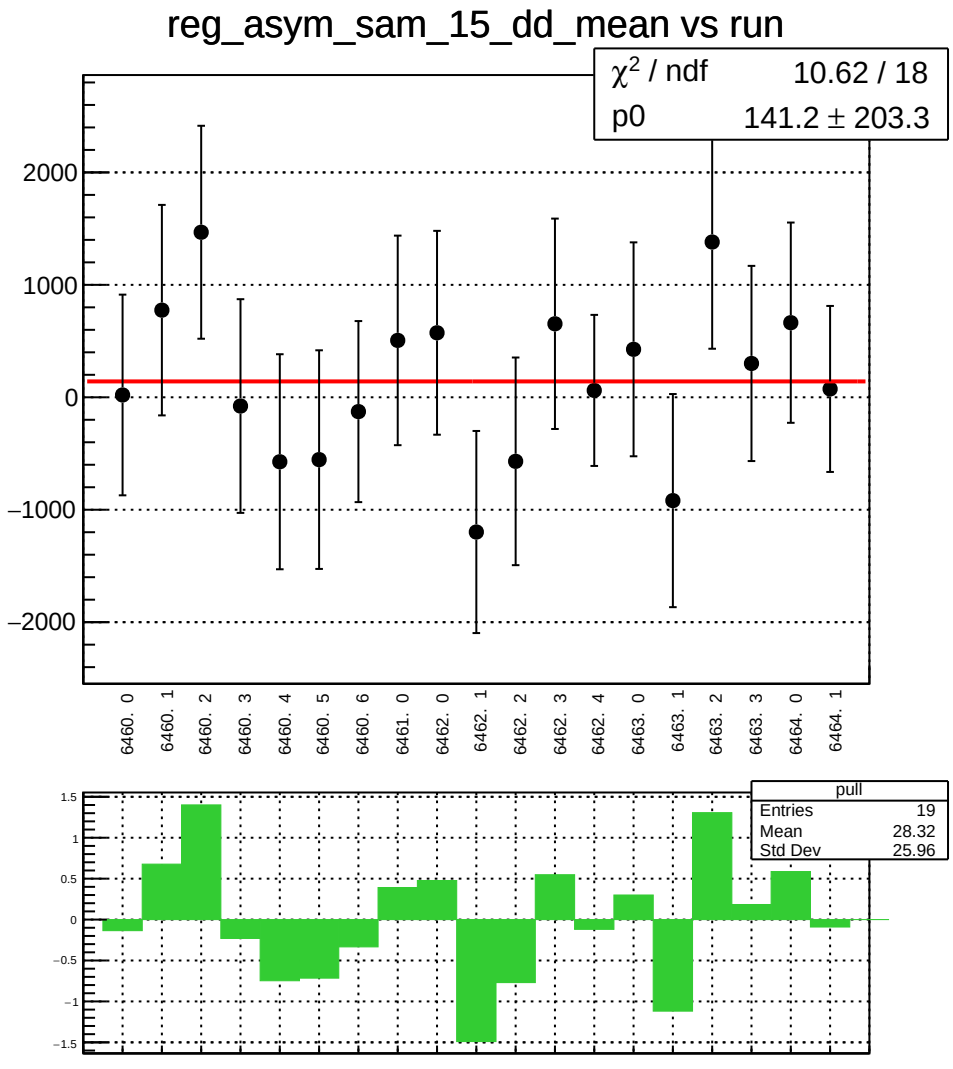

pull1D
Entries 19
Mean −0.004067
Std Dev 0.6221
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

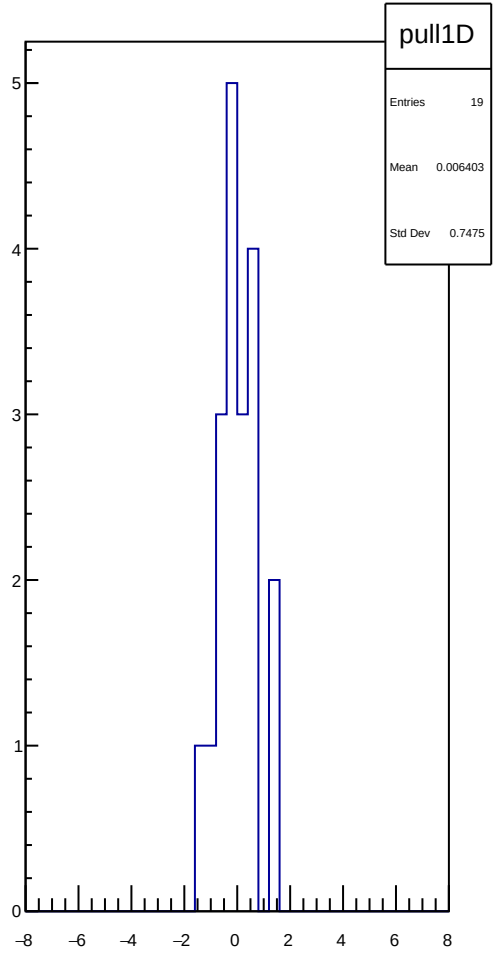

asym_sam_48_avg_correction_rms vs run
χ² / ndf 654.1 / 18
p0 1404 ± 2.284
1500
1450
1400
1350
1300
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

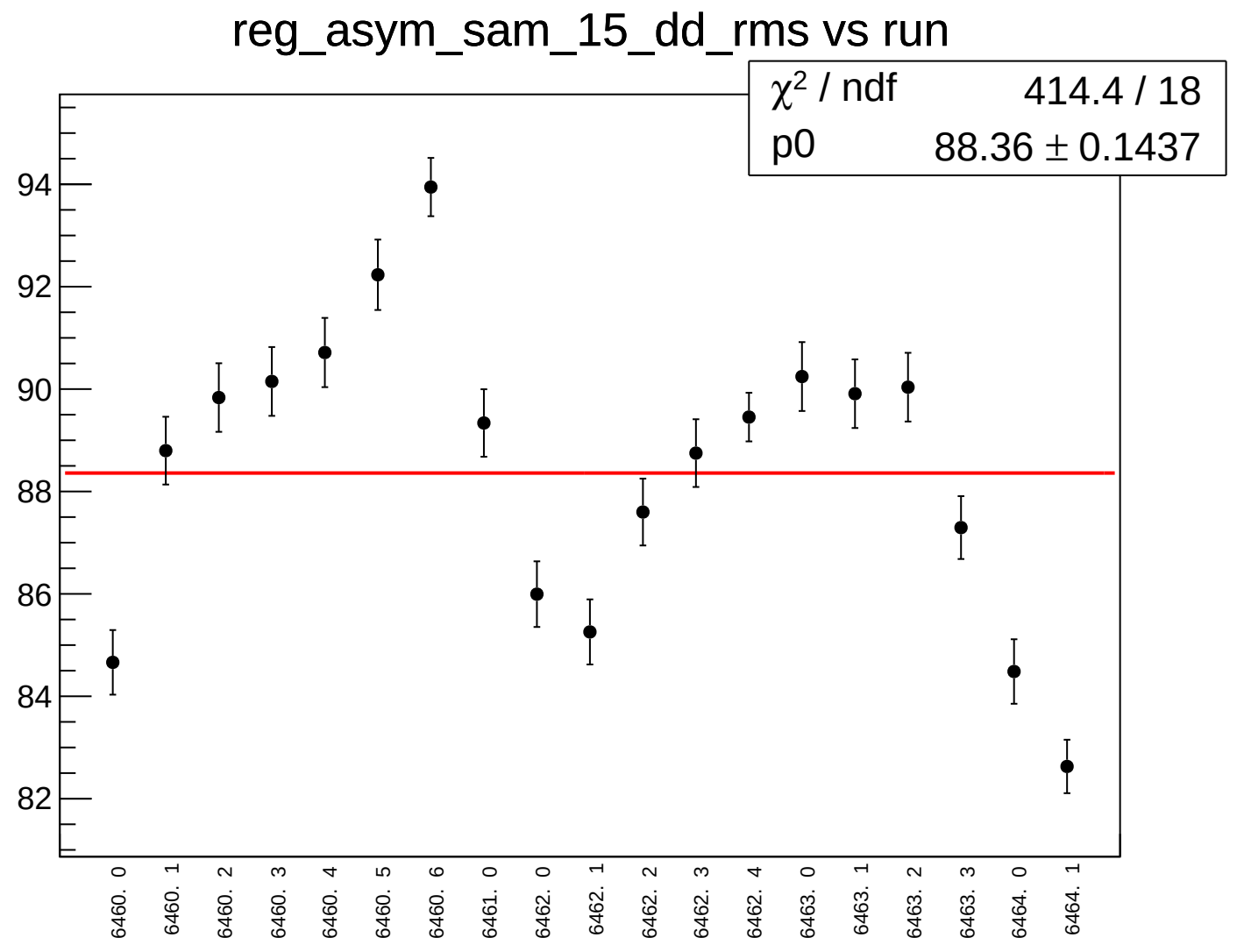

asym_sam_48_avg_mean vs run
χ² / ndf 7.401 / 18
p0 883.4 ± 3243
30000
20000
10000
0
−10000
−20000
−30000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −93.54
Std Dev 93.28
1
0.5
0
−0.5
−1

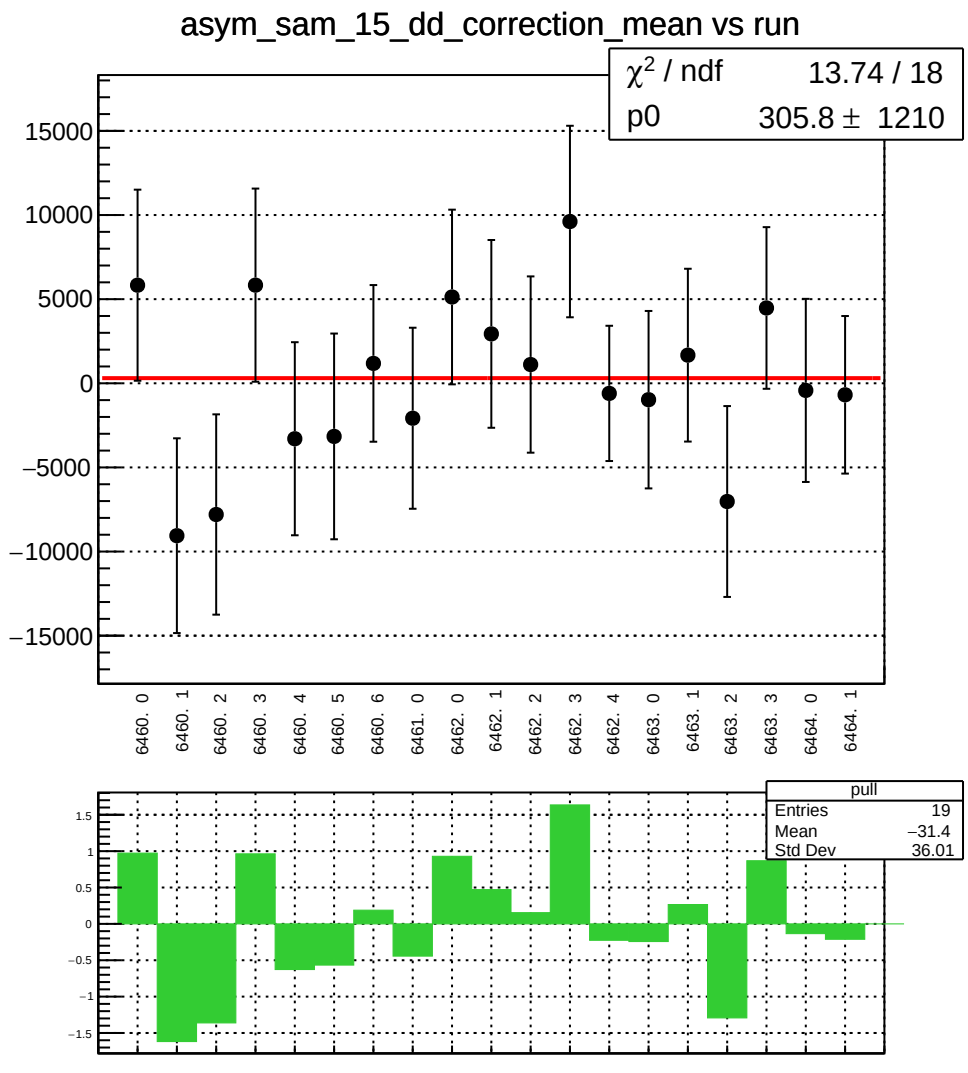

pull1D
Entries 19
Mean 0.00365
Std Dev 0.6241
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

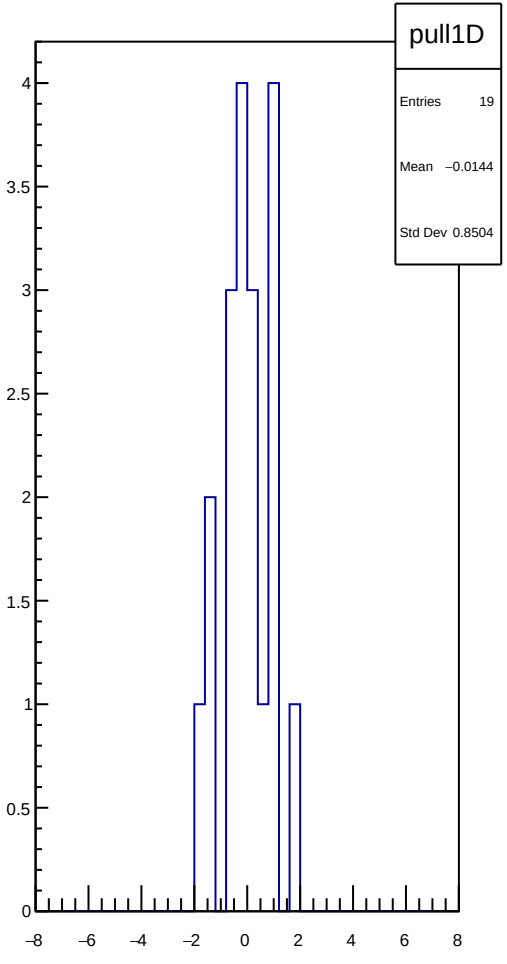

asym_sam_48_avg_rms vs run
χ² / ndf 648.2 / 18
p0 1409 ± 2.293
1550
1500
1450
1400
1350
1300
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

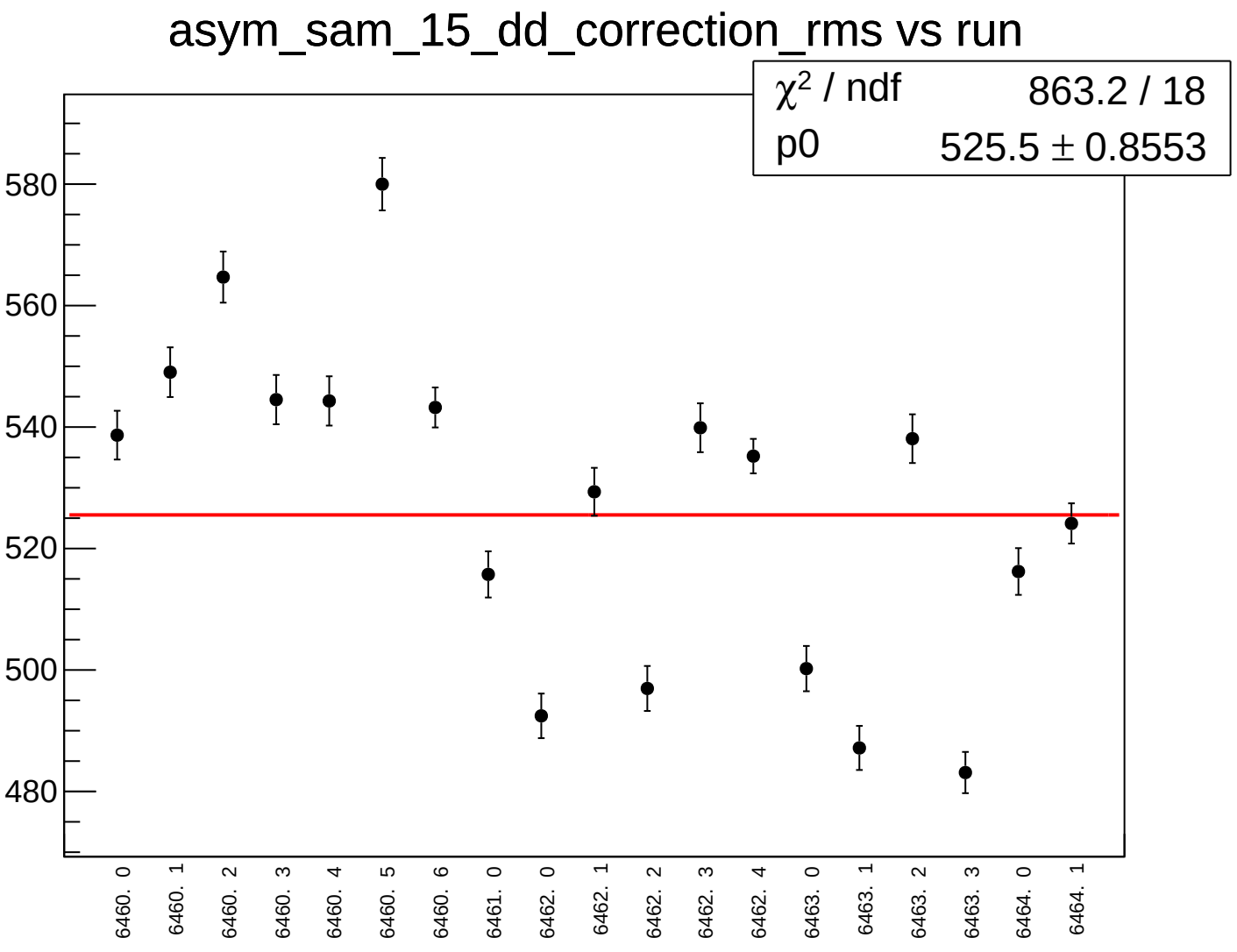

reg_asym_sam_15_dd_mean vs run
χ² / ndf 10.62 / 18
p0 141.2 ± 203.3
2000
1000
0
−1000
−2000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 28.32
Std Dev 25.96
1.5
1
0.5
0
−0.5
−1
−1.5

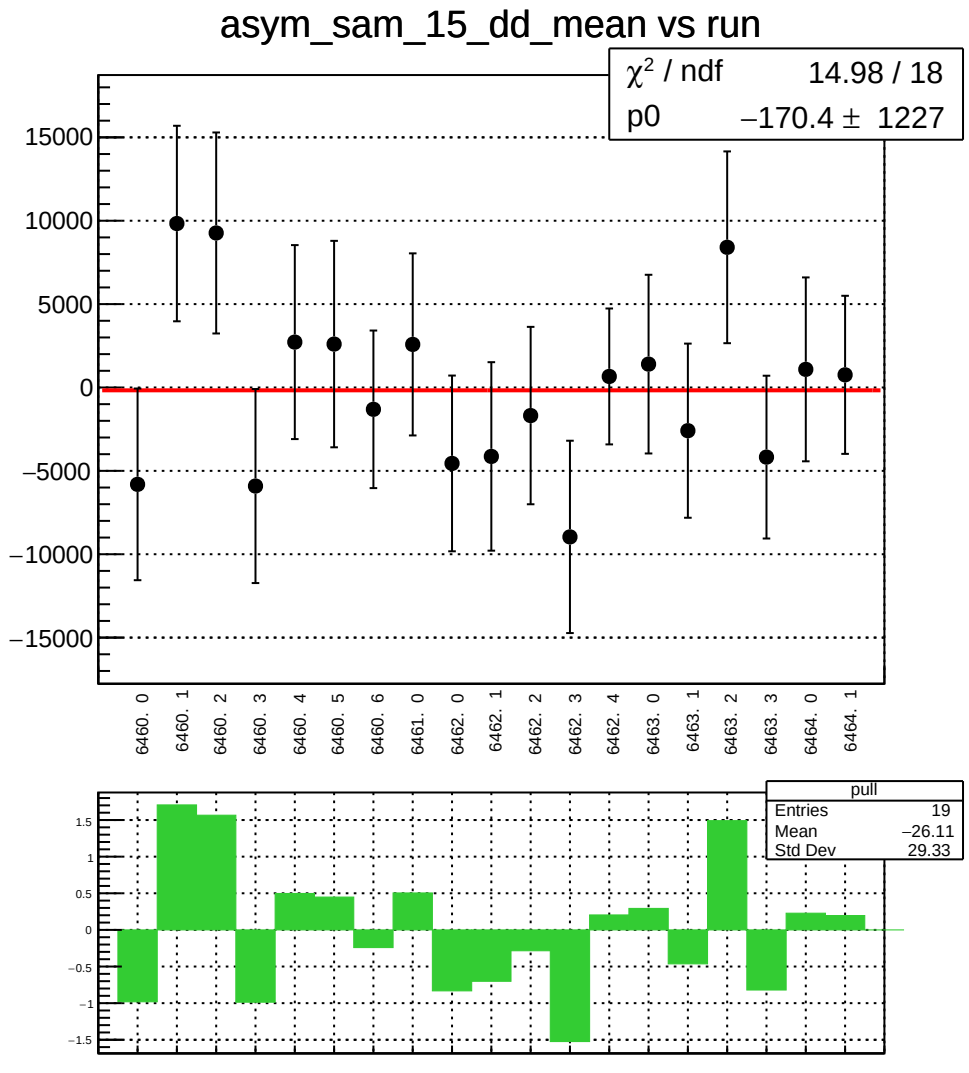

pull1D
Entries 19
Mean 0.006403
Std Dev 0.7475
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

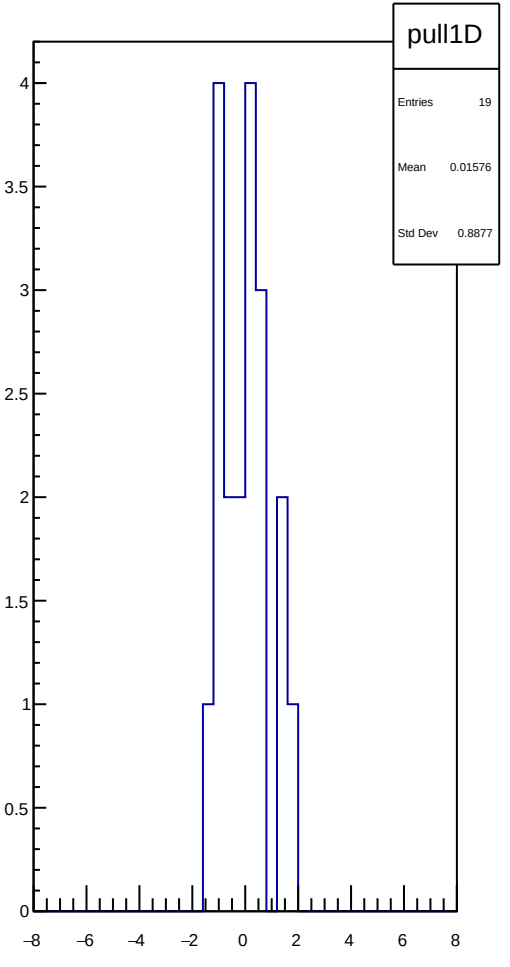

reg_asym_sam_15_dd_rms vs run
χ² / ndf 414.4 / 18
p0 88.36 ± 0.1437
94
92
90
88
86
84
82
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

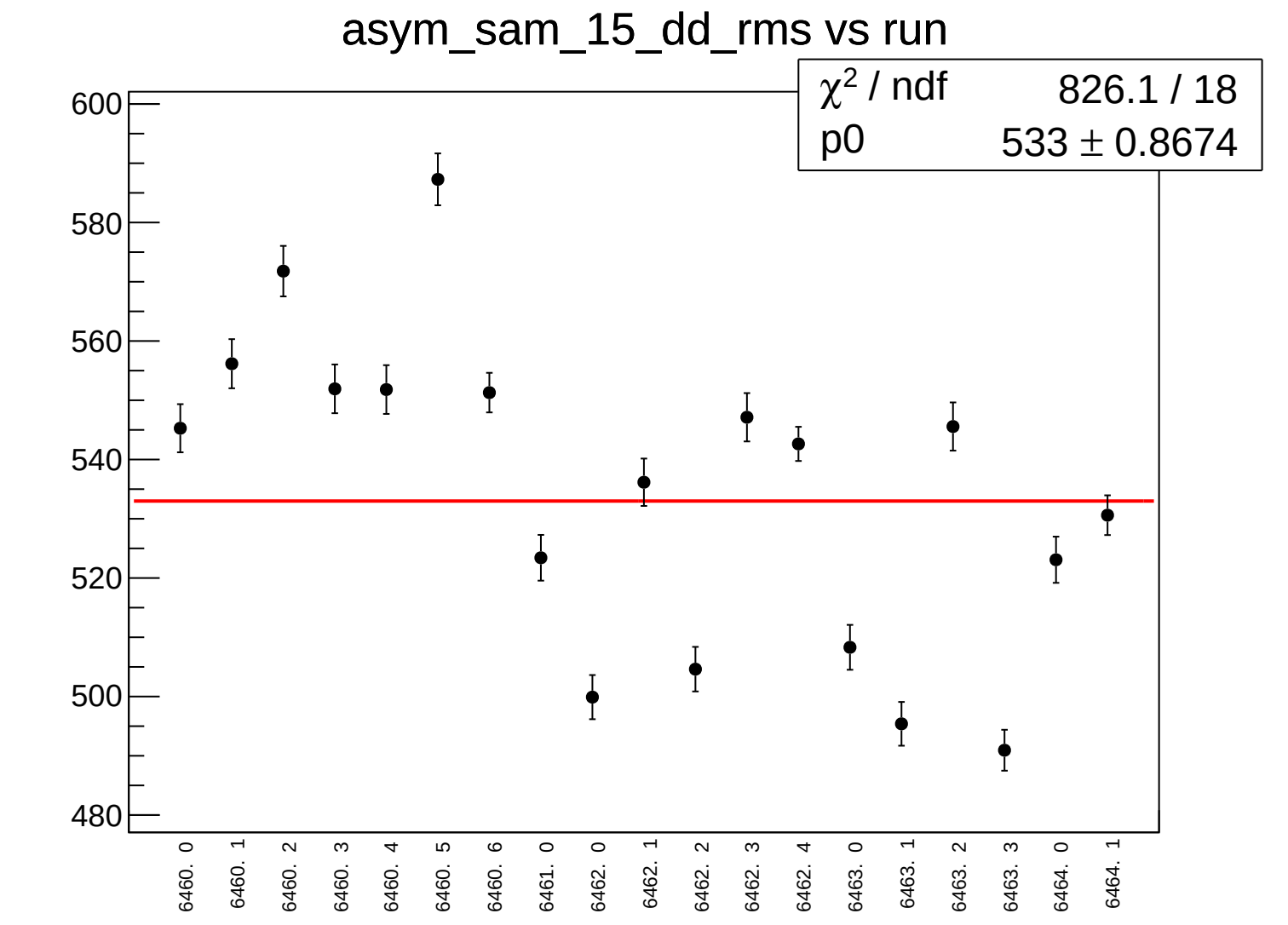

asym_sam_15_dd_correction_mean vs run
χ² / ndf 13.74 / 18
p0 305.8 ± 1210
15000
10000
5000
0
−5000
−10000
−15000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −31.4
Std Dev 36.01
1.5
1
0.5
0
−0.5
−1
−1.5

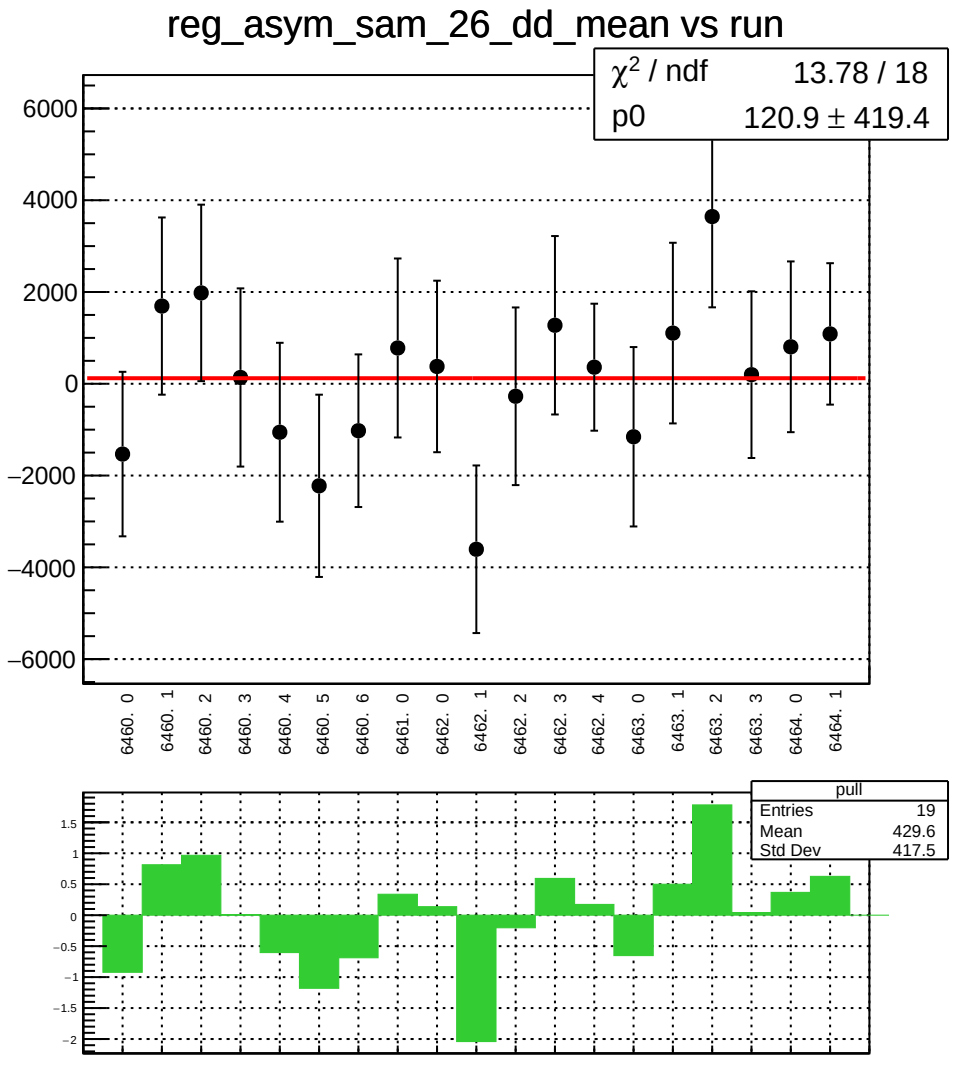

pull1D
Entries 19
Mean −0.0144
Std Dev 0.8504
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

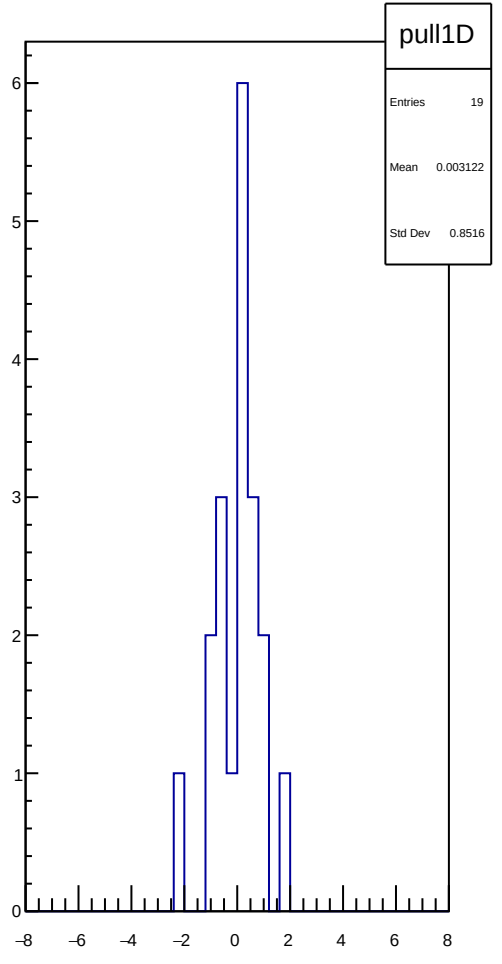

asym_sam_15_dd_correction_rms vs run
χ² / ndf 863.2 / 18
p0 525.5 ± 0.8553
580
560
540
520
500
480
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

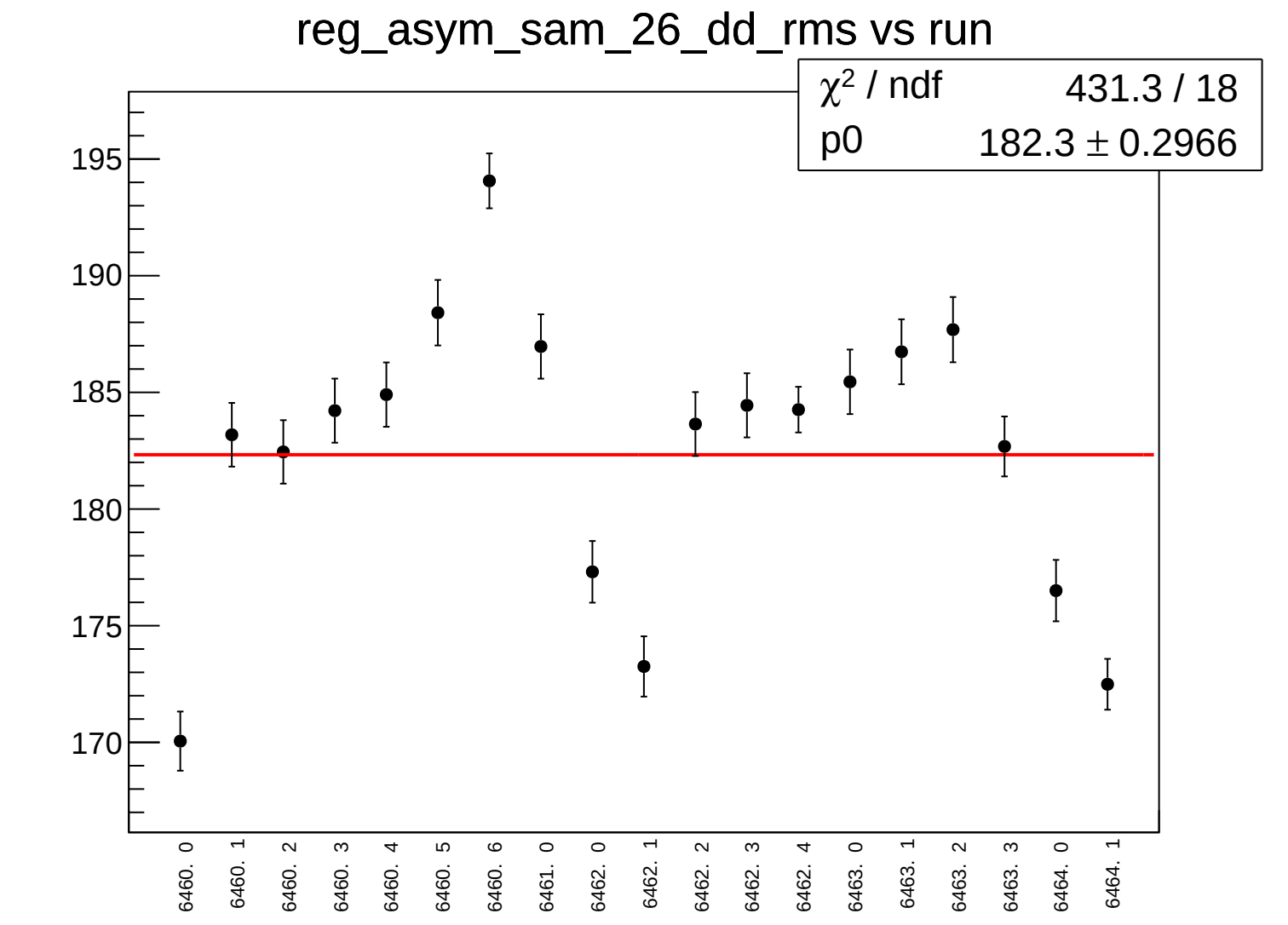

asym_sam_15_dd_mean vs run
χ² / ndf 14.98 / 18
p0 −170.4 ± 1227
15000
10000
5000
0
−5000
−10000
−15000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −26.11
Std Dev 29.33
1.5
1
0.5
0
−0.5
−1
−1.5

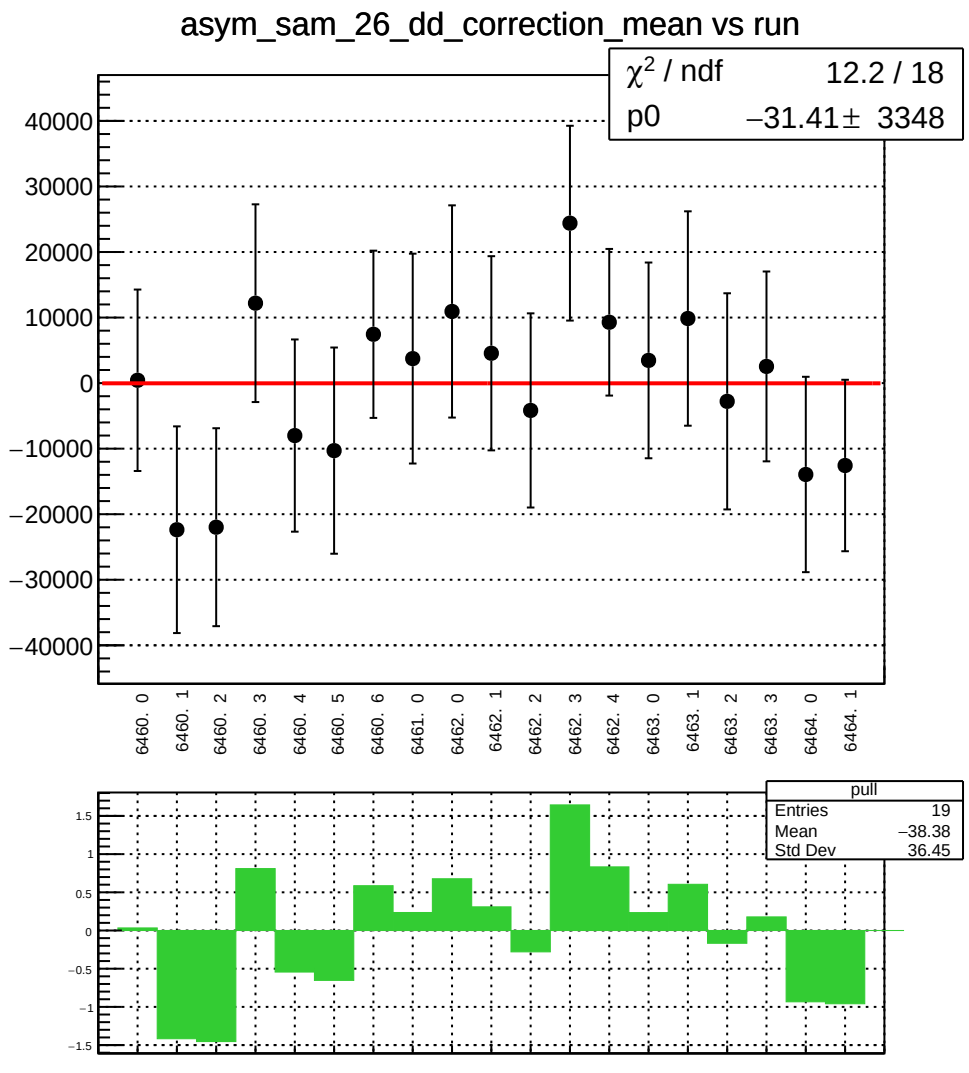

pull1D
Entries 19
Mean 0.01576
Std Dev 0.8877
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

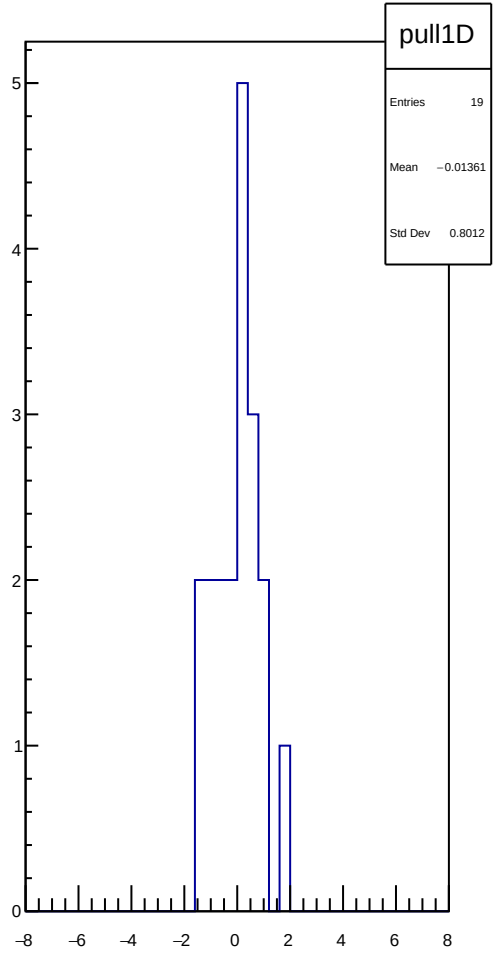

asym_sam_15_dd_rms vs run
χ^2 / ndf 826.1 / 18
p0 533 ± 0.8674
600
580
560
540
520
500
480
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

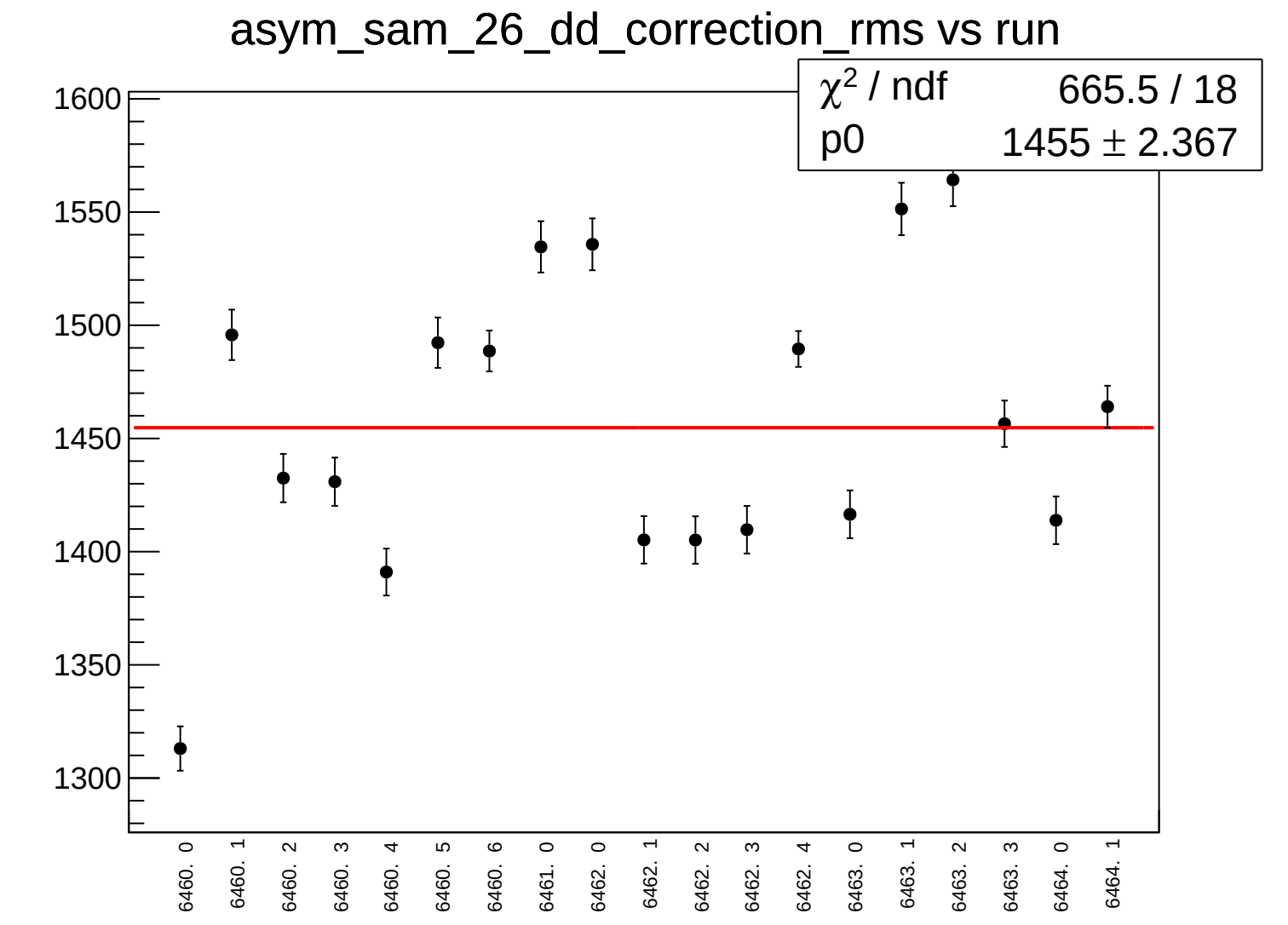

reg_asym_sam_26_dd_mean vs run
χ² / ndf 13.78 / 18
p0 120.9 ± 419.4
6000
4000
2000
0
−2000
−4000
−6000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 429.6
Std Dev 417.5
1.5
1
0.5
0
−0.5
−1
−1.5
−2

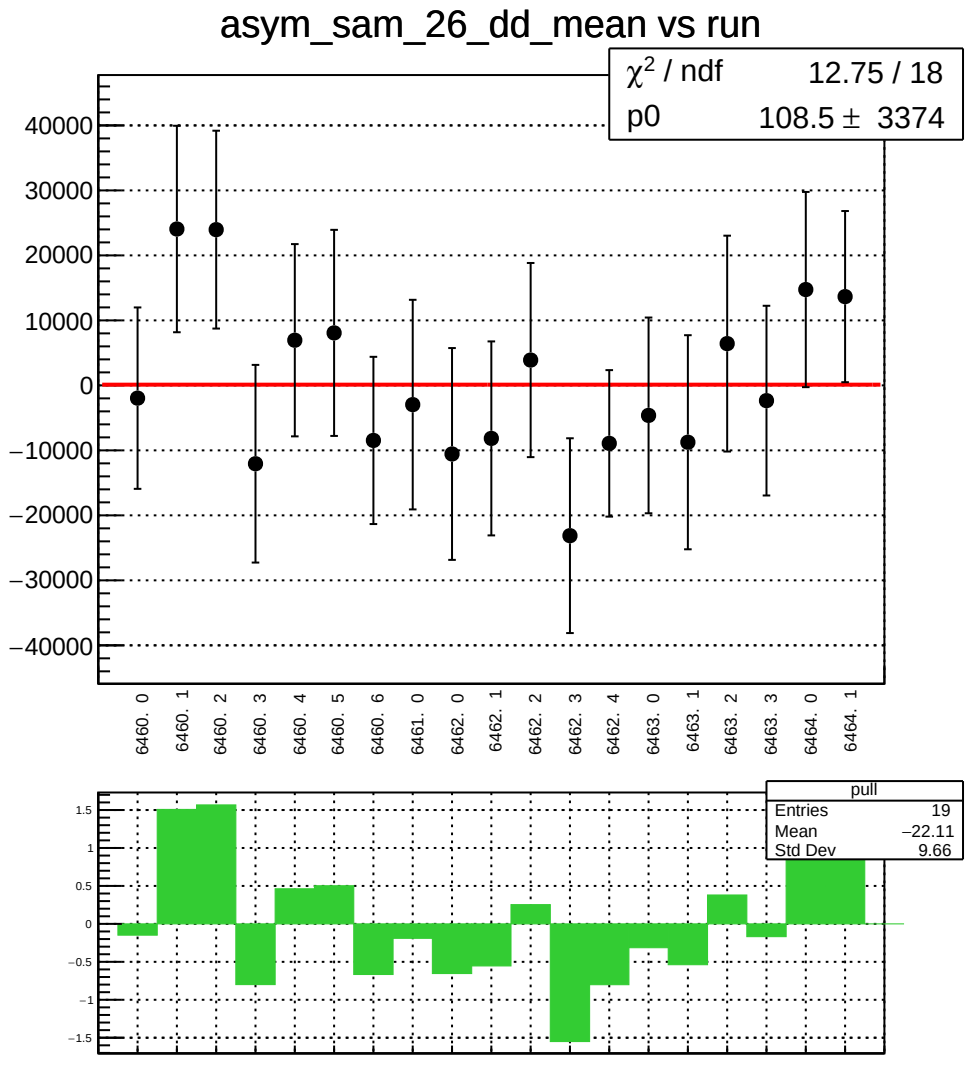

pull1D
Entries 19
Mean 0.003122
Std Dev 0.8516
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

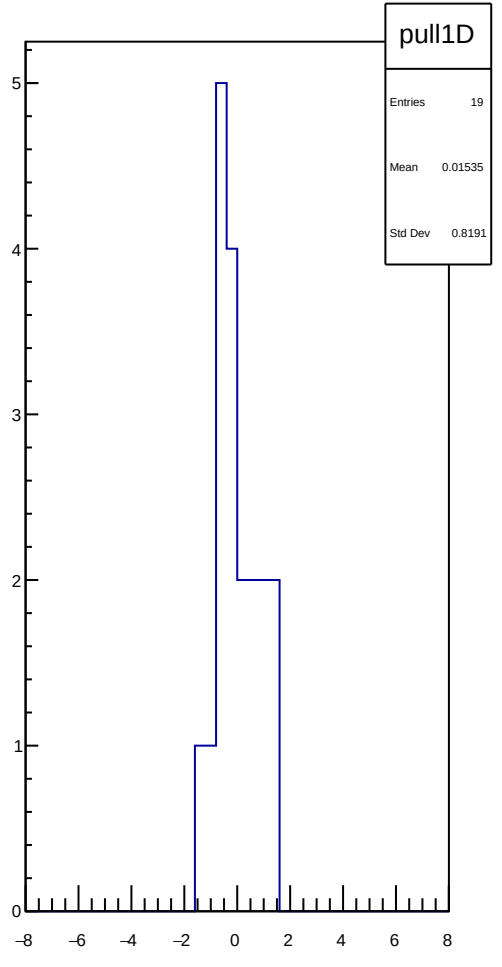

reg_asym_sam_26_dd_rms vs run
χ² / ndf 431.3 / 18
p0 182.3 ± 0.2966
195
190
185
180
175
170
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

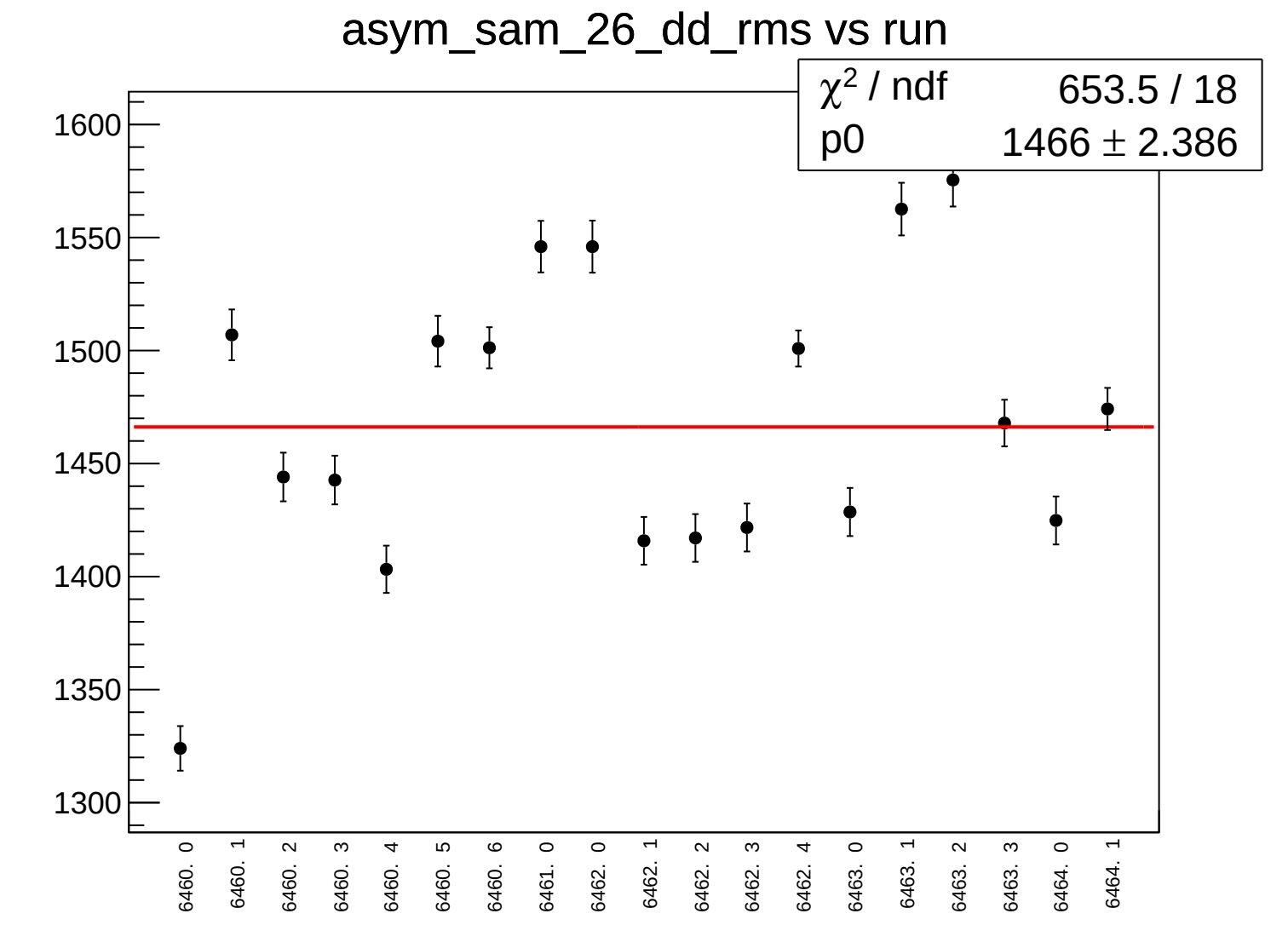

asym_sam_26_dd_correction_mean vs run
χ² / ndf 12.2 / 18
p0 −31.41± 3348
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −38.38
Std Dev 36.45
1.5
1
0.5
0
−0.5
−1
−1.5

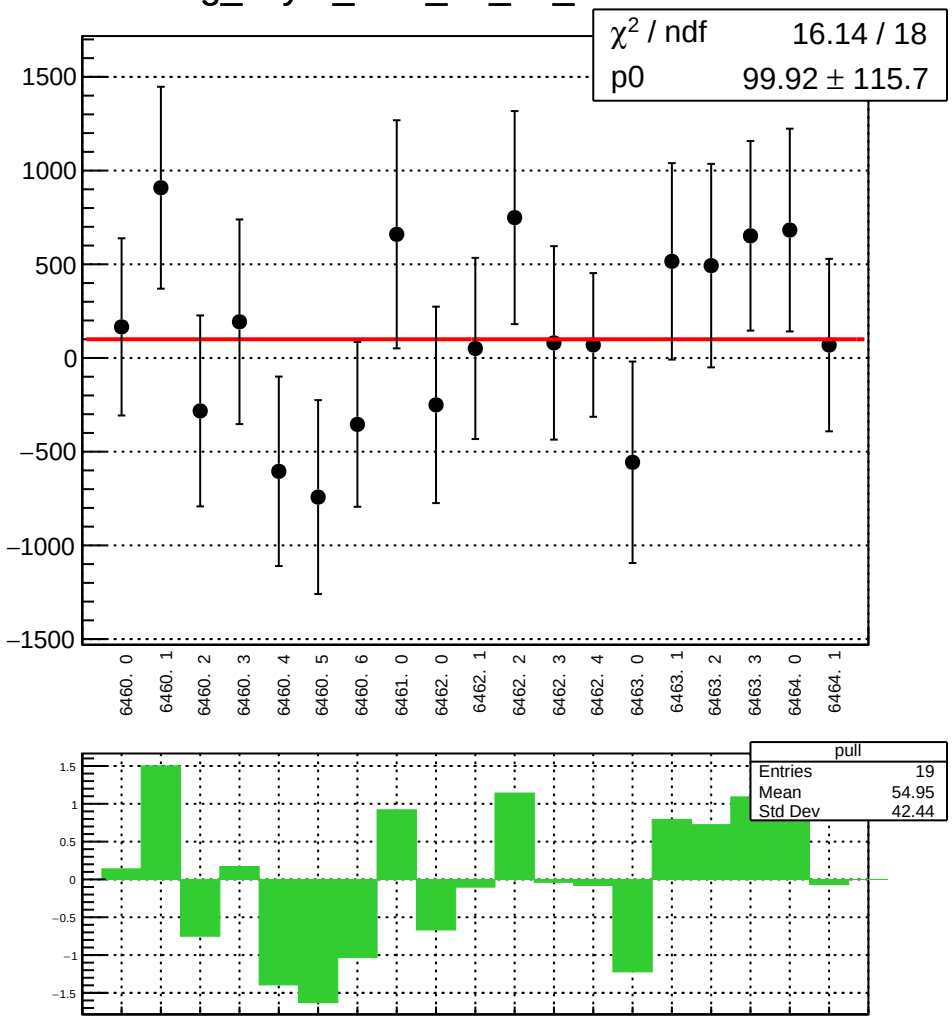

pull1D
Entries 19
Mean −0.01361
Std Dev 0.8012
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

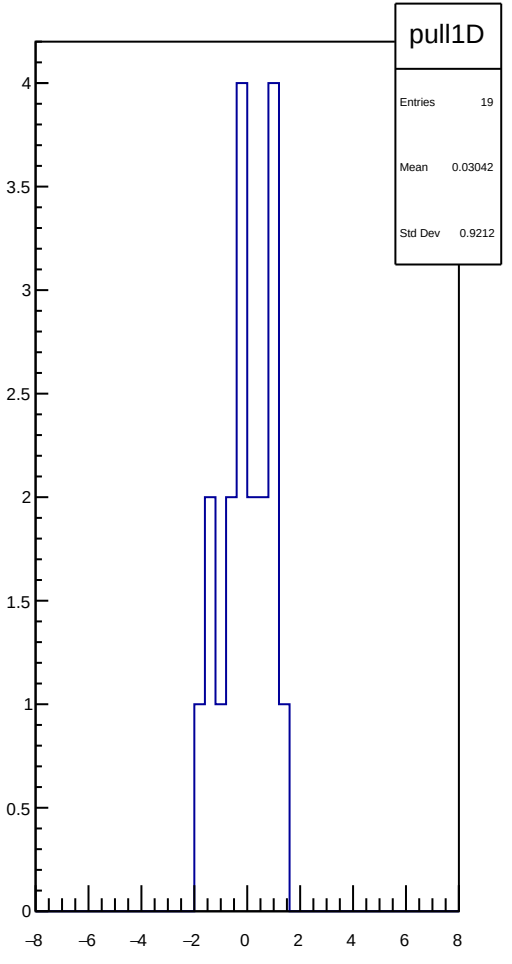

asym_sam_26_dd_correction_rms vs run
χ² / ndf 665.5 / 18
p0 1455 ± 2.367
1600
1550
1500
1450
1400
1350
1300
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

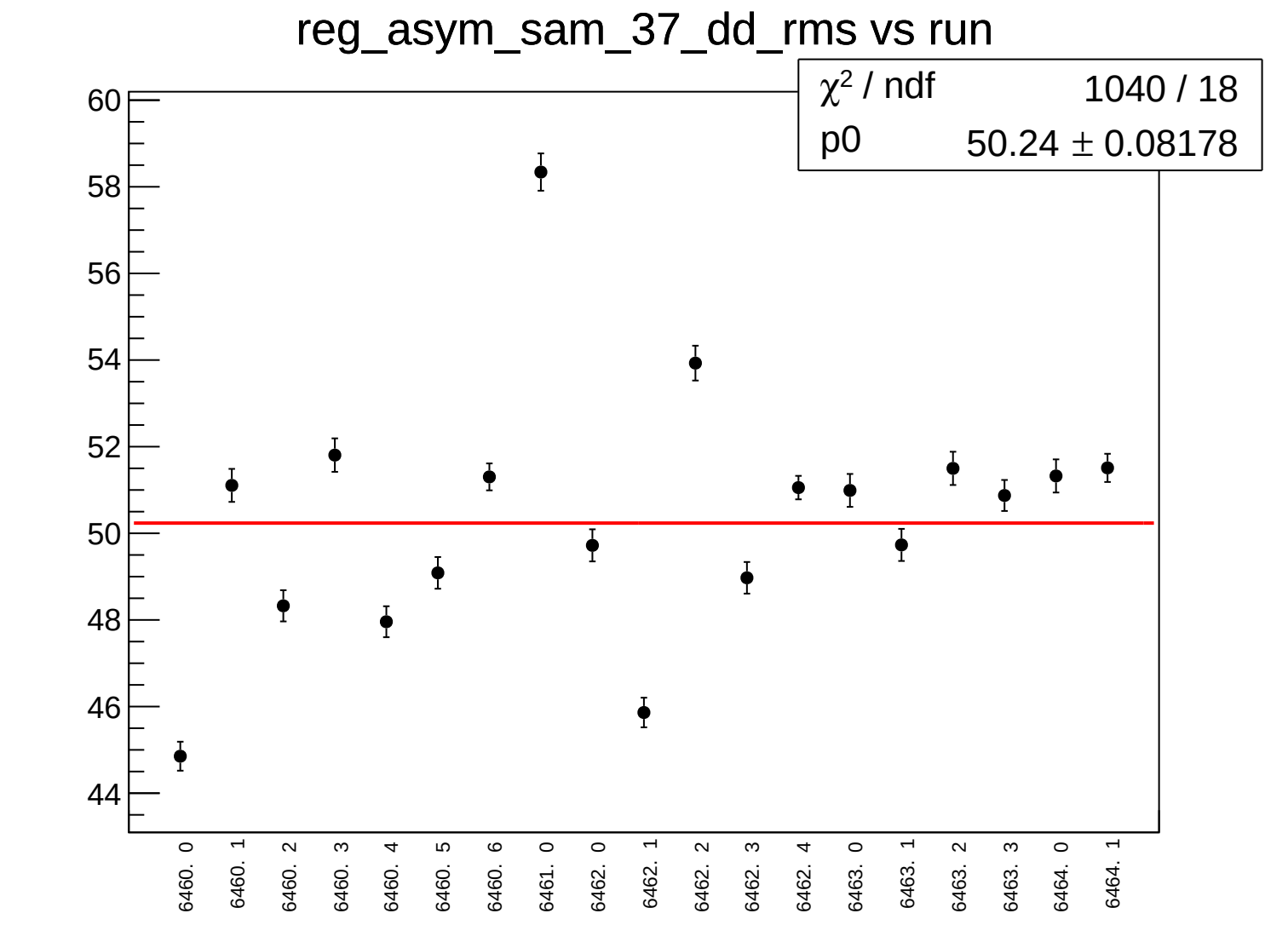

asym_sam_26_dd_mean vs run
χ² / ndf 12.75 / 18
p0 108.5 ± 3374
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −22.11
Std Dev 9.66
1.5
1
0.5
0
−0.5
−1
−1.5

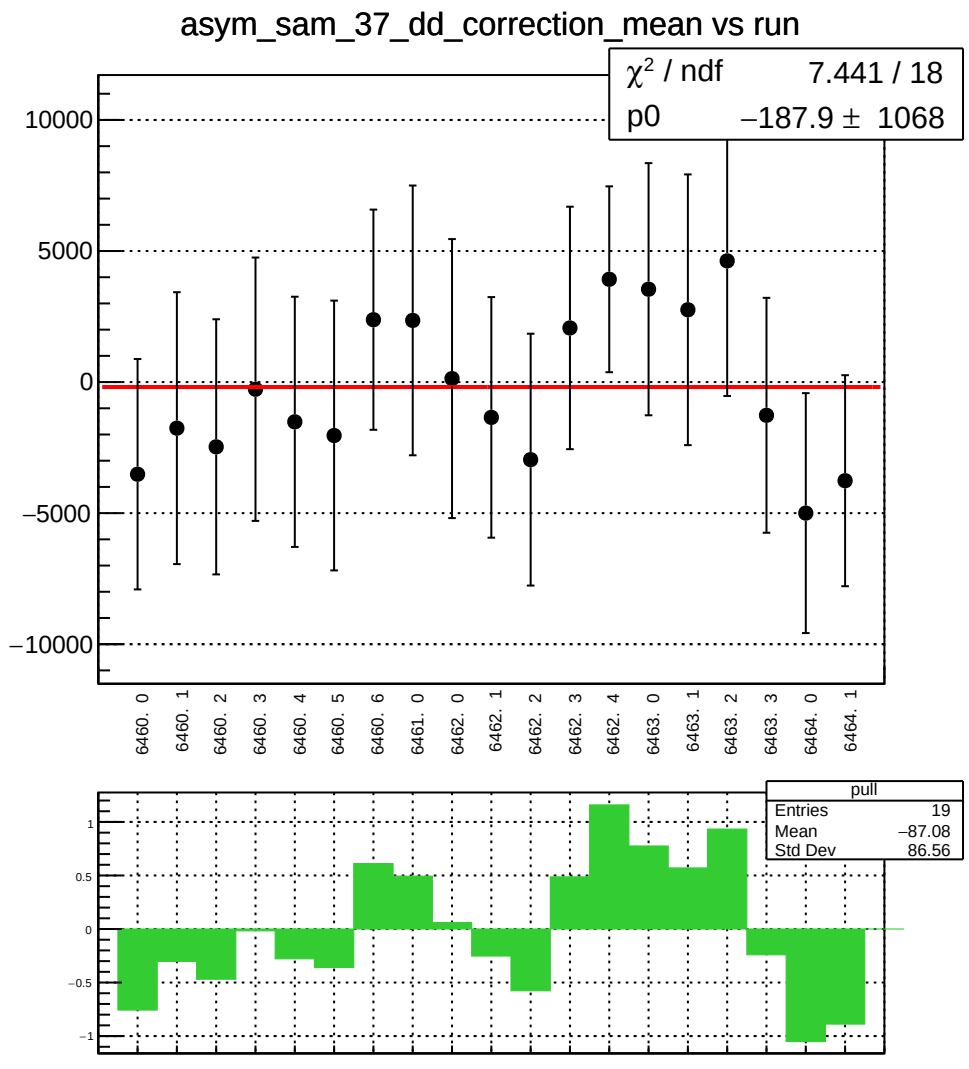

pull1D
Entries 19
Mean 0.01535
Std Dev 0.8191
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

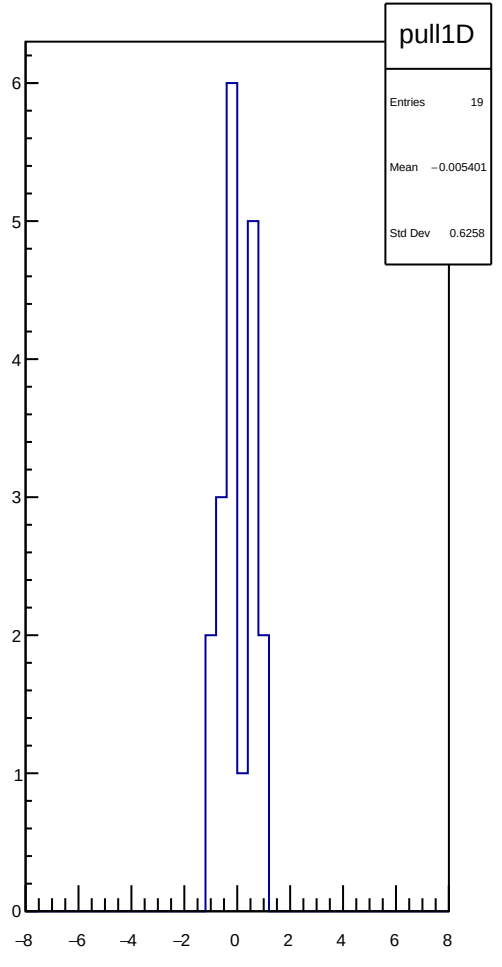

asym_sam_26_dd_rms vs run
χ² / ndf 653.5 / 18
p0 1466 ± 2.386
1600
1550
1500
1450
1400
1350
1300
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

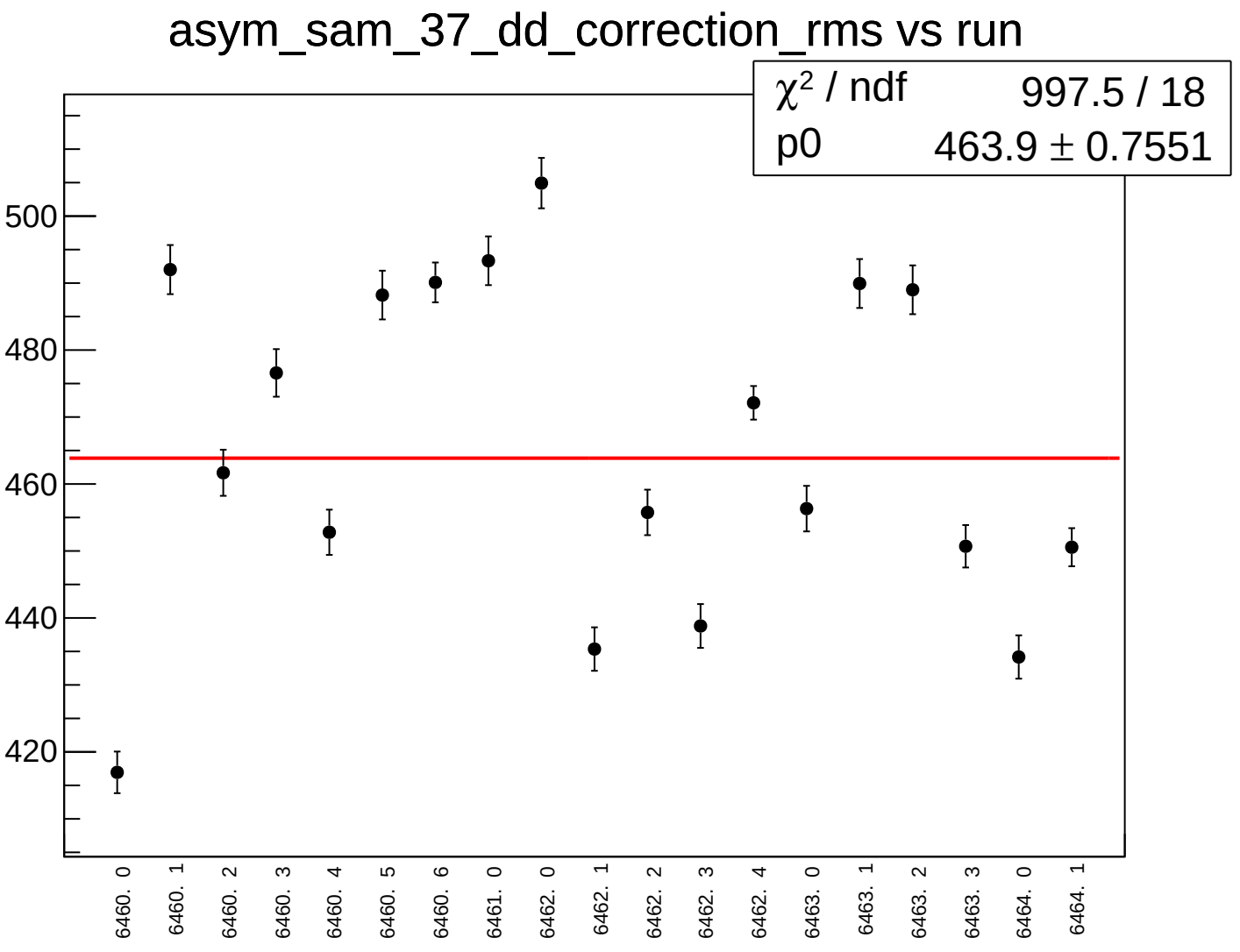

reg_asym_sam_37_dd_mean vs run
χ² / ndf 16.14 / 18
p0 99.92 ± 115.7
1500
1000
500
0
−500
−1000
−1500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 54.95
Std Dev 42.44
1.5
1
0.5
0
−0.5
−1
−1.5

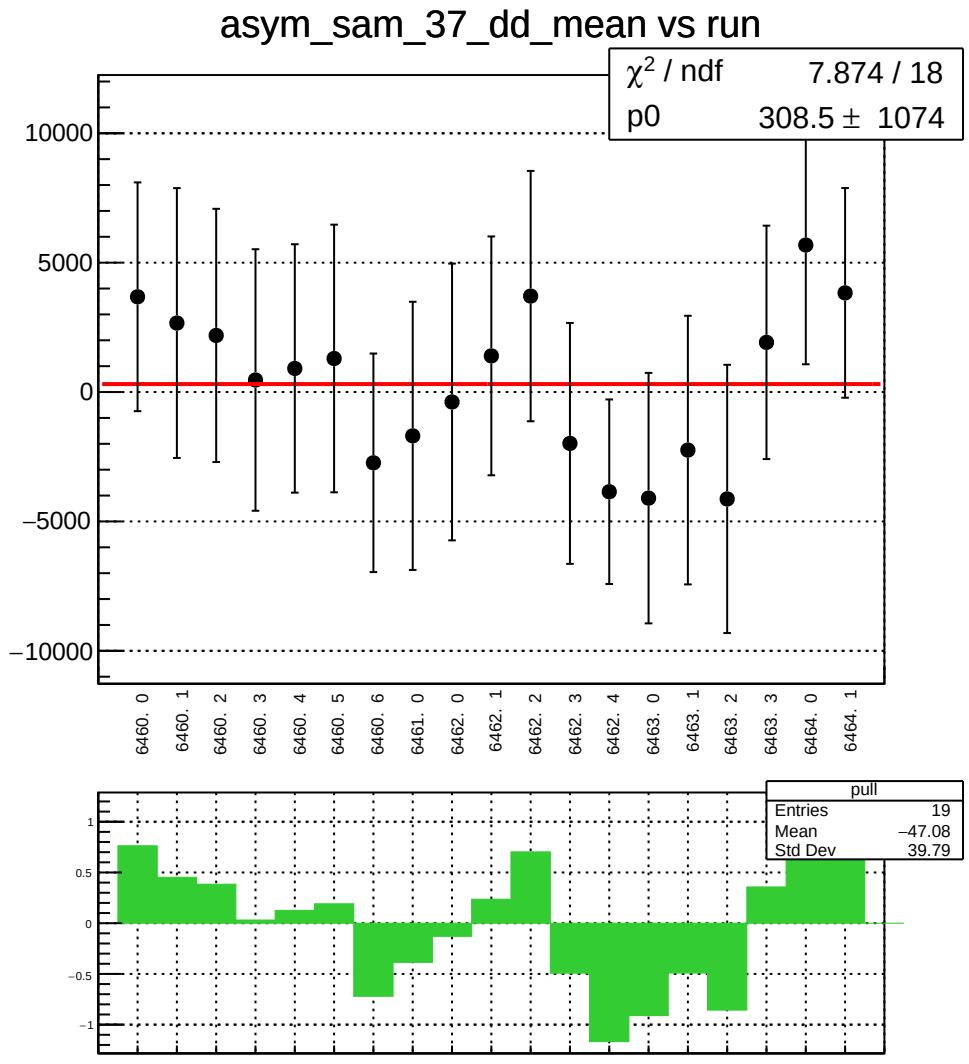

pull1D
Entries 19
Mean 0.03042
Std Dev 0.9212
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

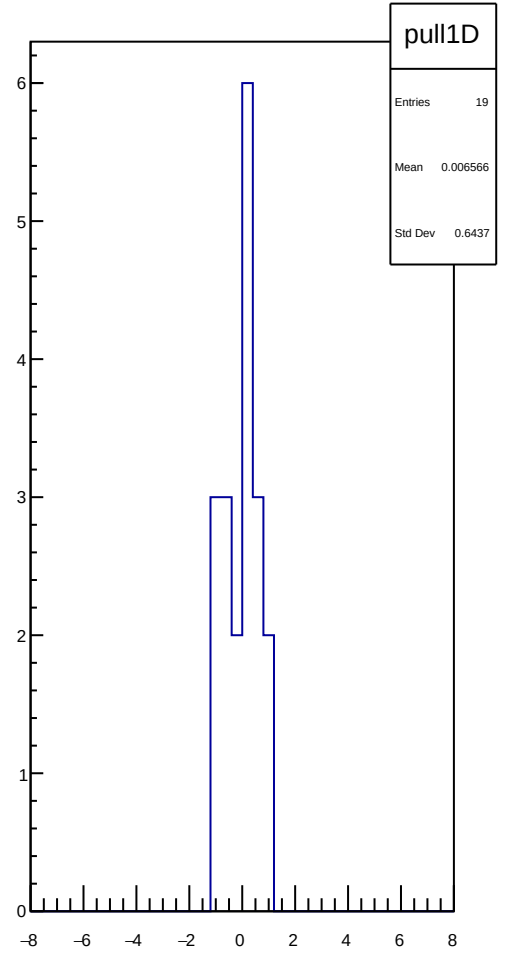

reg_asym_sam_37_dd_rms vs run
χ² / ndf 1040 / 18
p0 50.24 ± 0.08178
60
58
56
54
52
50
48
46
44
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

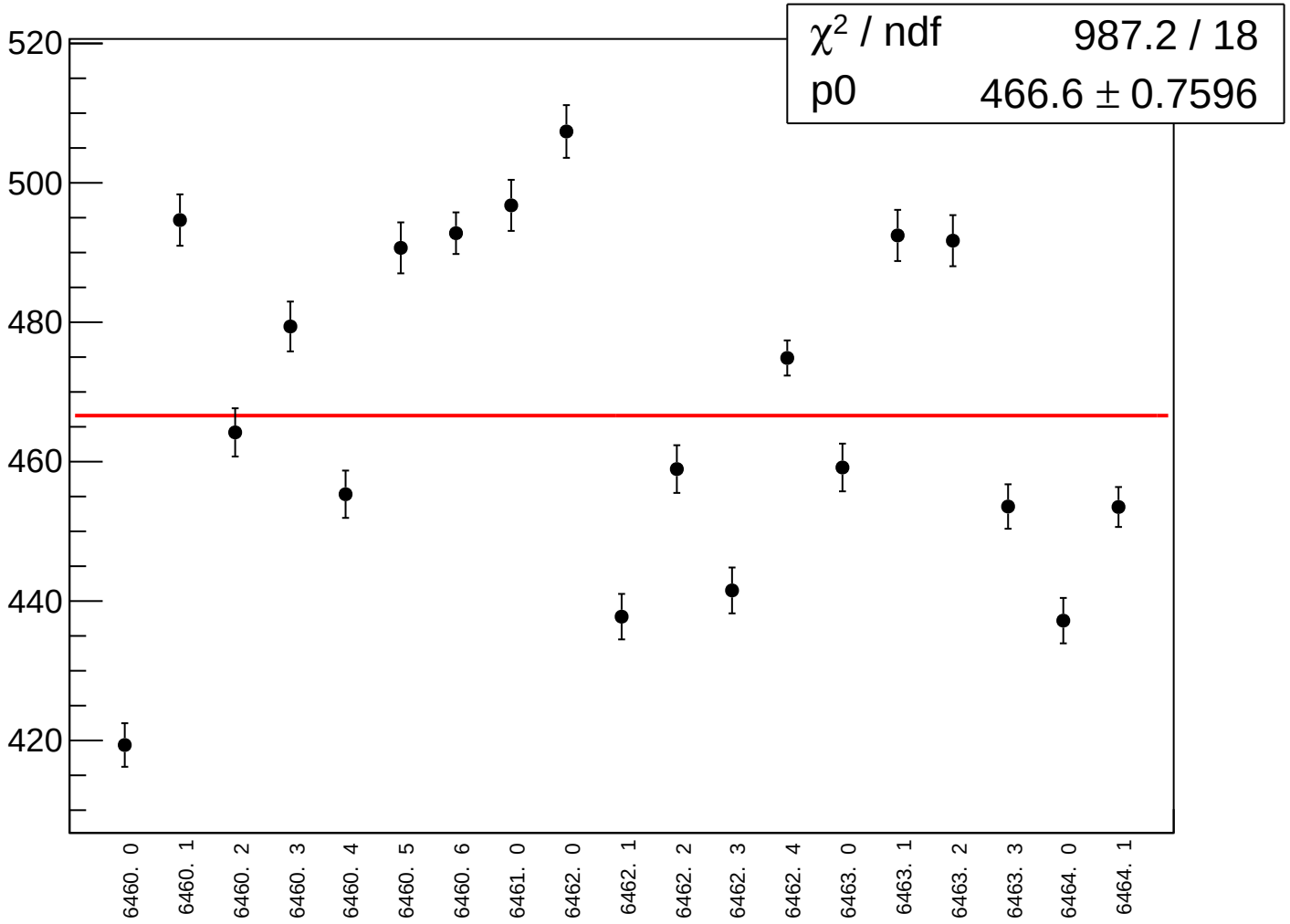

asym_sam_37_dd_correction_mean vs run
χ² / ndf 7.441 / 18
p0 −187.9 ± 1068
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −87.08
Std Dev 86.56
1
0.5
0
−0.5
−1

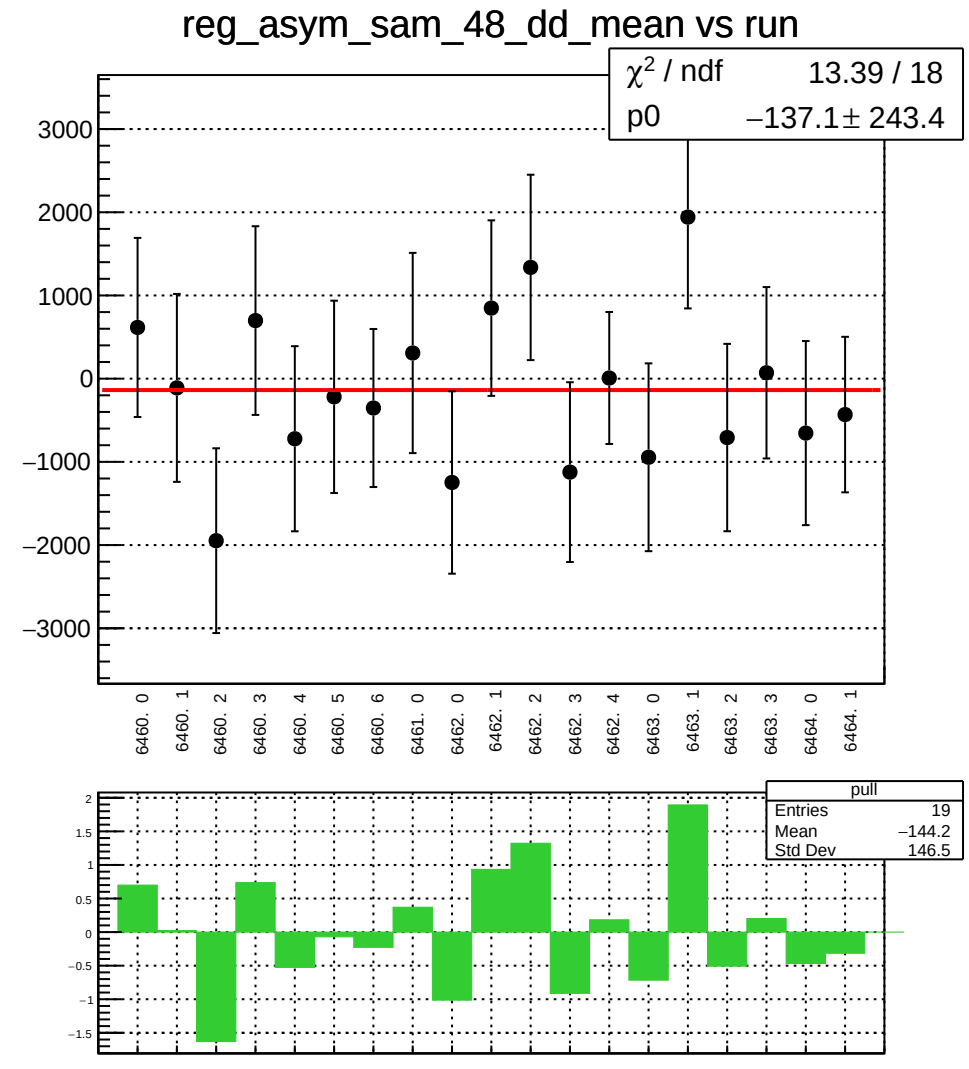

pull1D
Entries 19
Mean −0.005401
Std Dev 0.6258
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

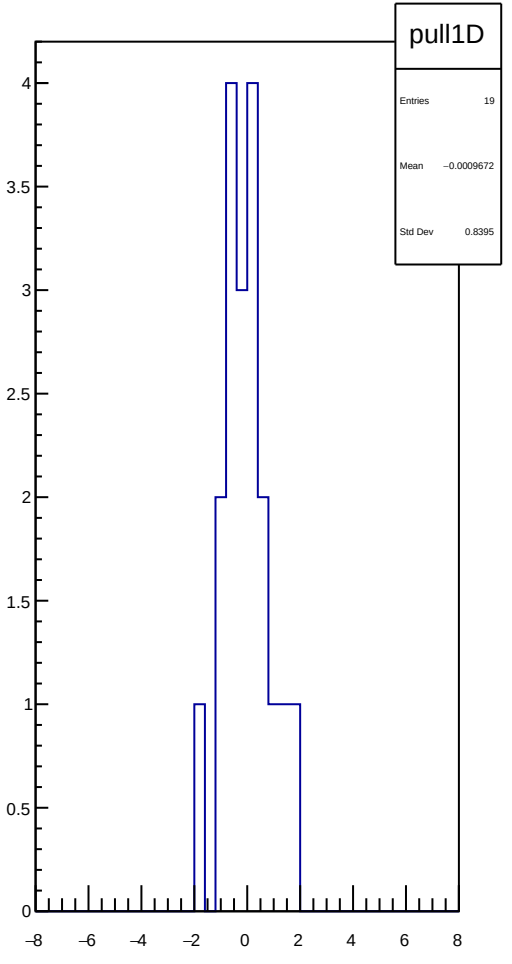

asym_sam_37_dd_correction_rms vs run
χ² / ndf 997.5 / 18
p0 463.9 ± 0.7551
500
480
460
440
420
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

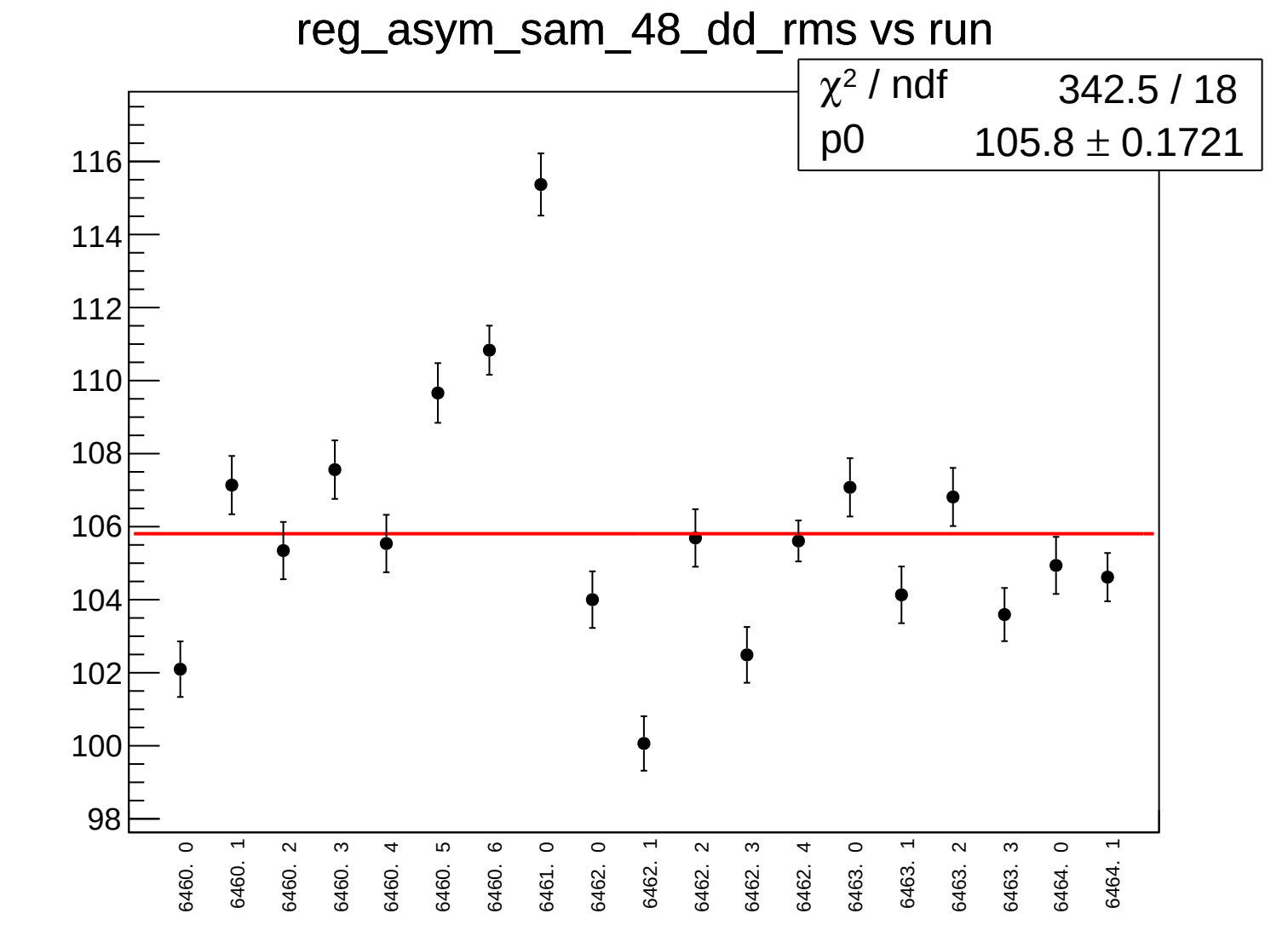

asym_sam_37_dd_mean vs run
χ² / ndf 7.874 / 18
p0 308.5 ± 1074
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −47.08
Std Dev 39.79
1
0.5
0
−0.5
−1

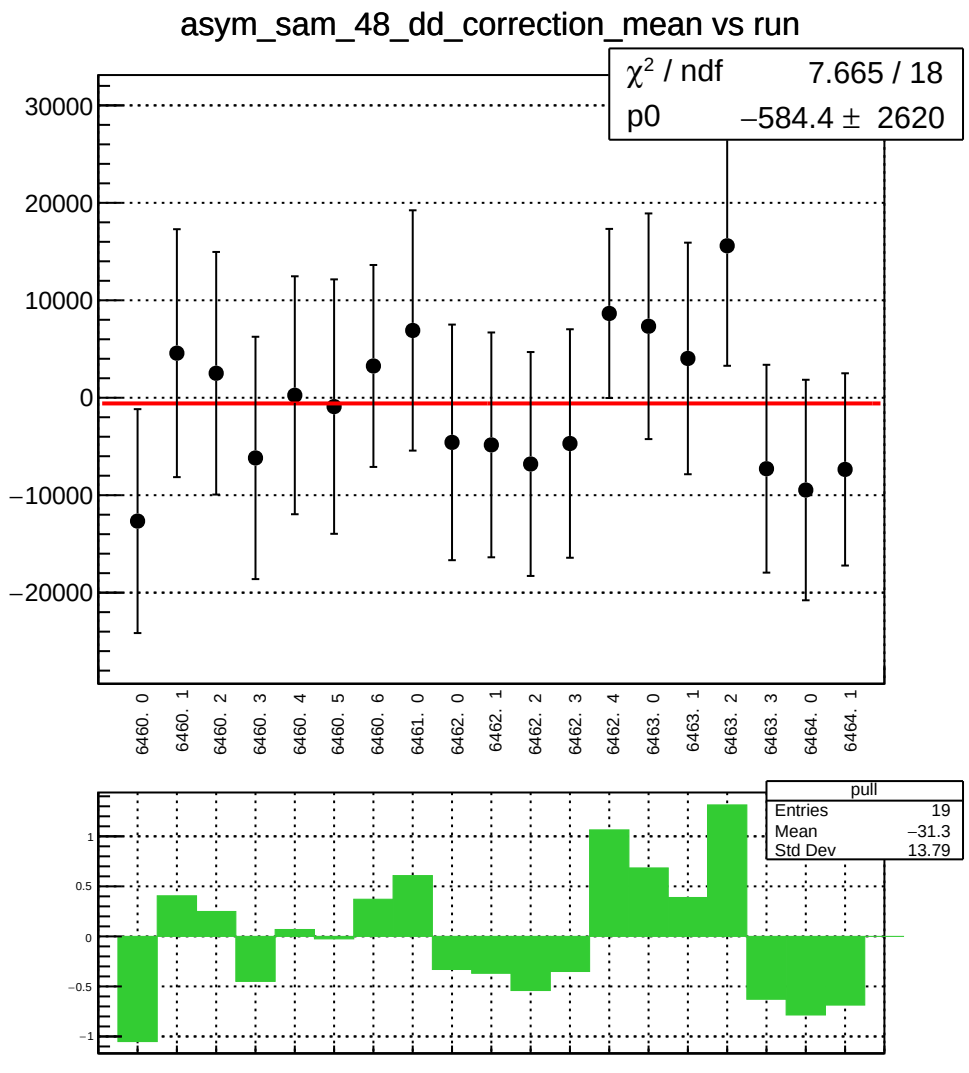

pull1D
Entries 19
Mean 0.006566
Std Dev 0.6437
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

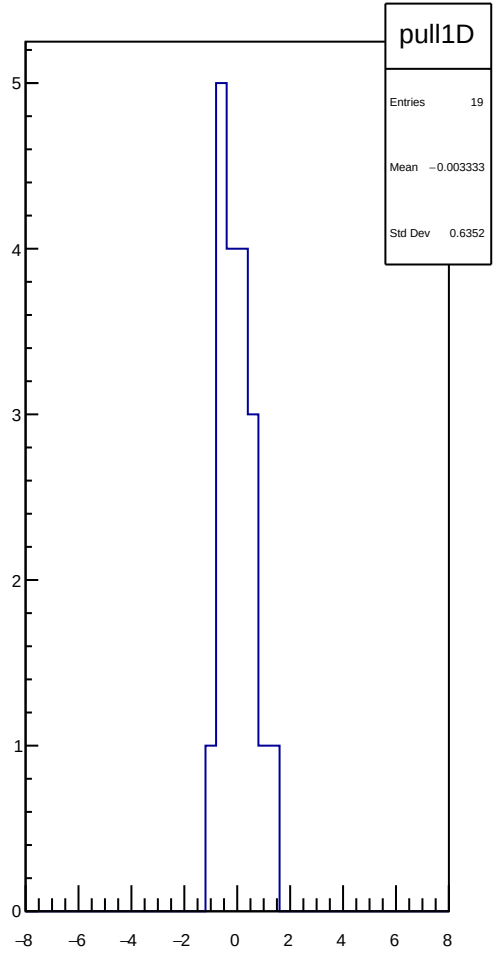

asym_sam_37_dd_rms vs run
χ^2 / ndf 987.2 / 18
p0 466.6 ± 0.7596
520
500
480
460
440
420
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

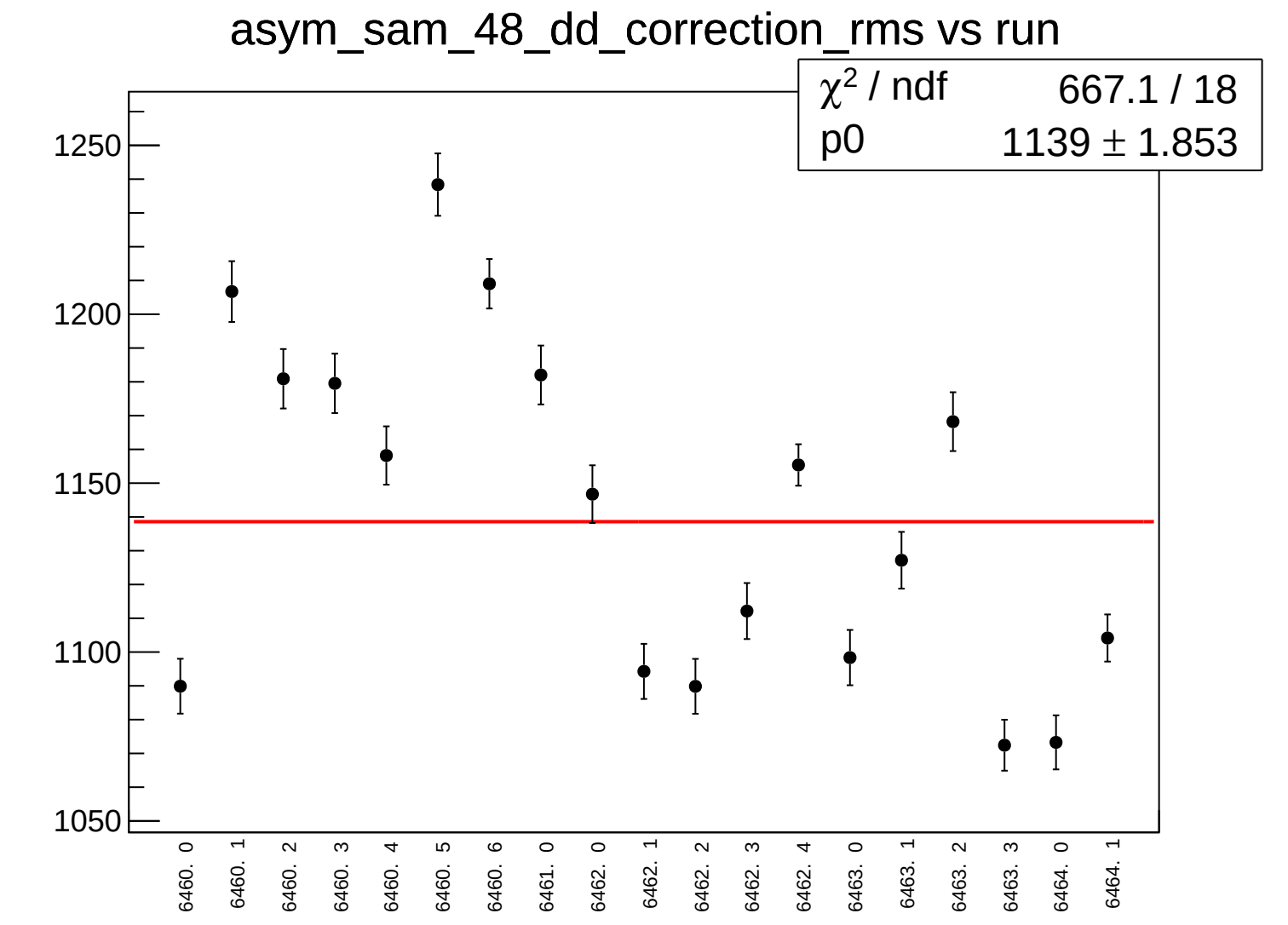

reg_asym_sam_48_dd_mean vs run
χ² / ndf 13.39 / 18
p0 −137.1± 243.4
3000
2000
1000
0
−1000
−2000
−3000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −144.2
Std Dev 146.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

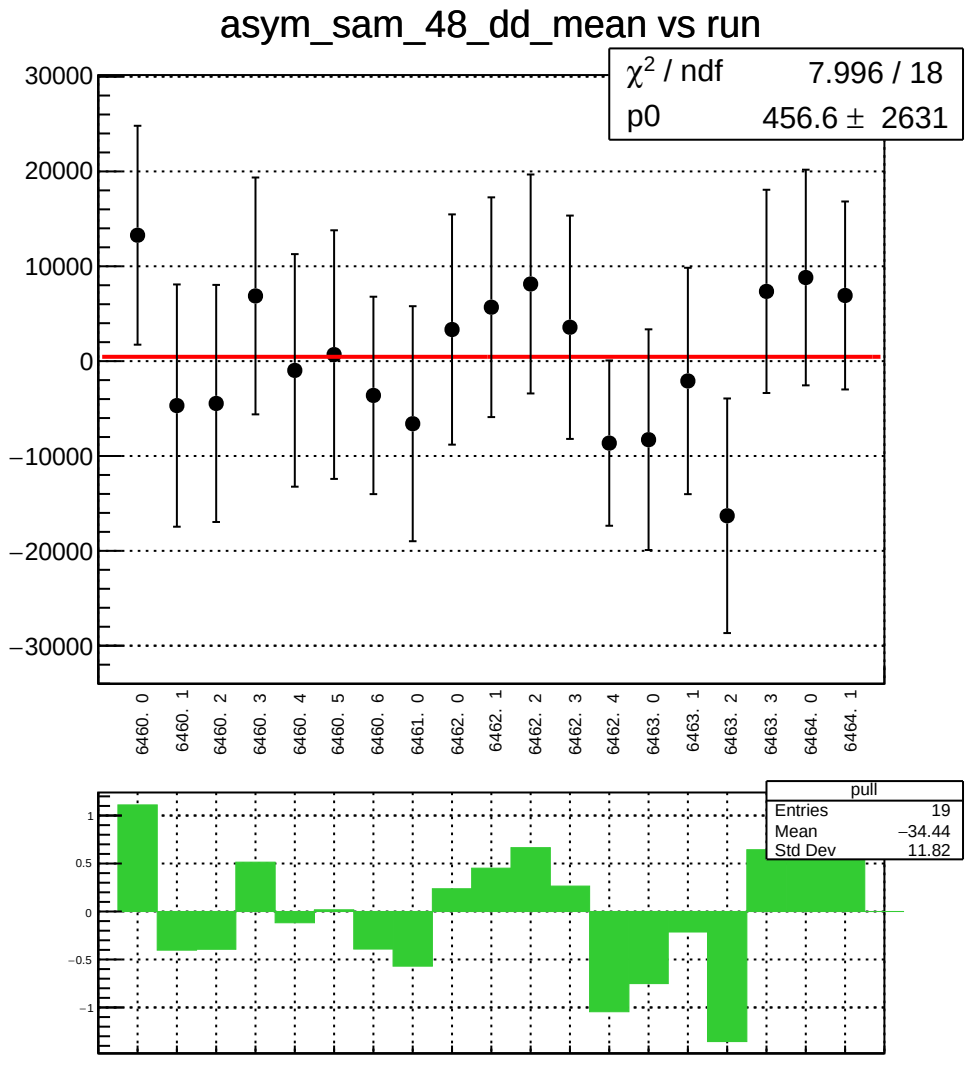

pull1D
Entries 19
Mean −0.0009672
Std Dev 0.8395
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

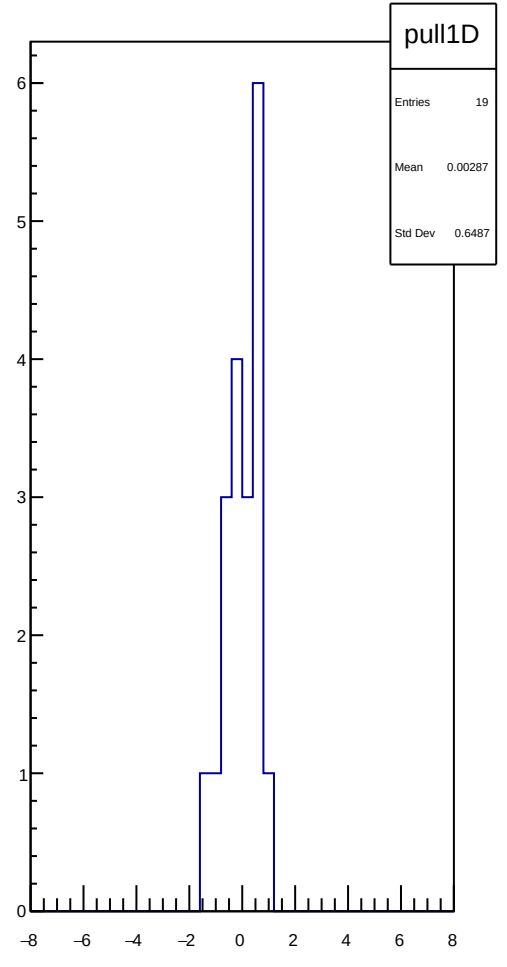

reg_asym_sam_48_dd_rms vs run
χ² / ndf 342.5 / 18
p0 105.8 ± 0.1721
116
114
112
110
108
106
104
102
100
98
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

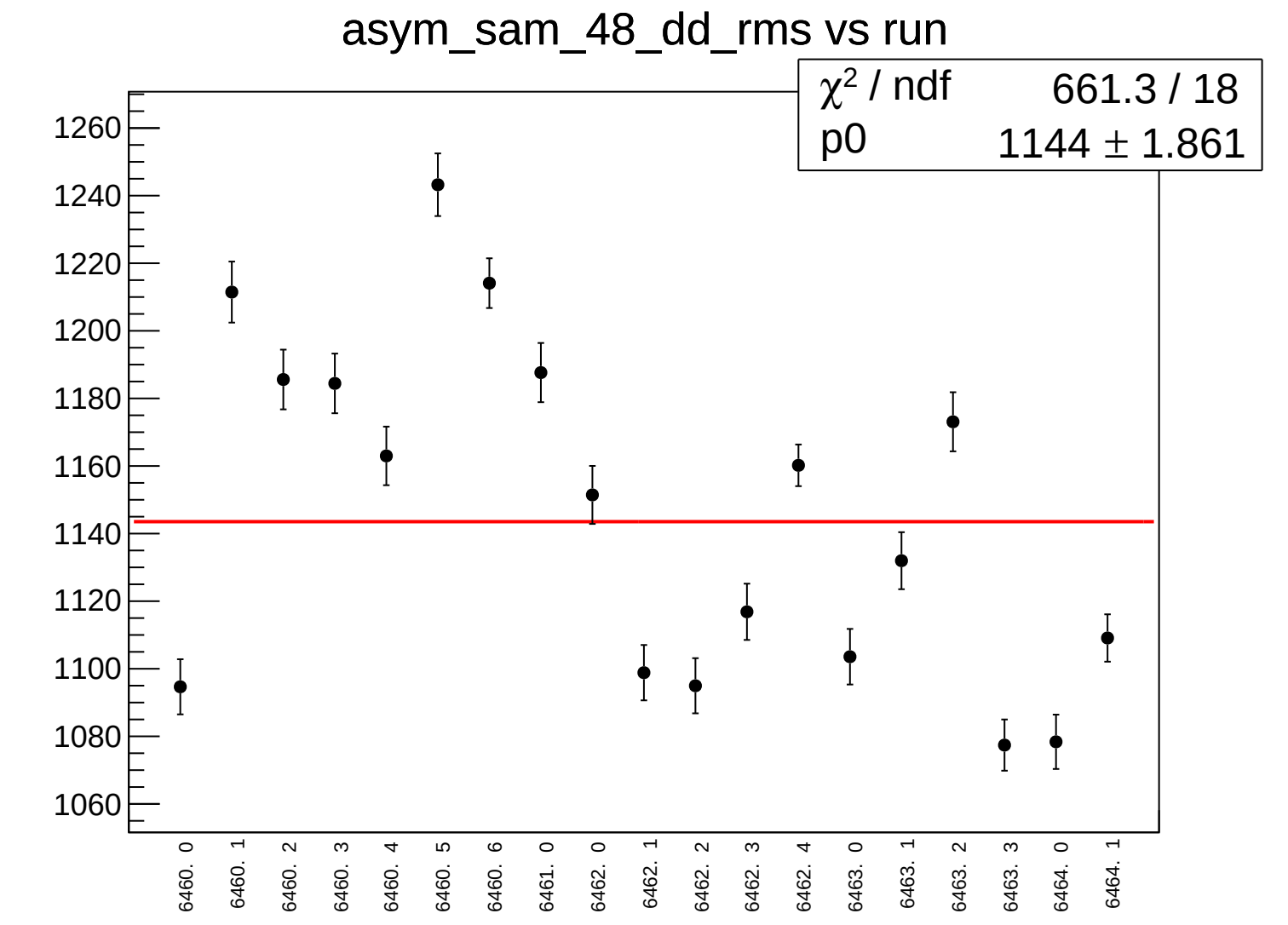

asym_sam_48_dd_correction_mean vs run
χ² / ndf 7.665 / 18
p0 −584.4 ± 2620
30000
20000
10000
0
−10000
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −31.3
Std Dev 13.79
1
0.5
0
−0.5
−1

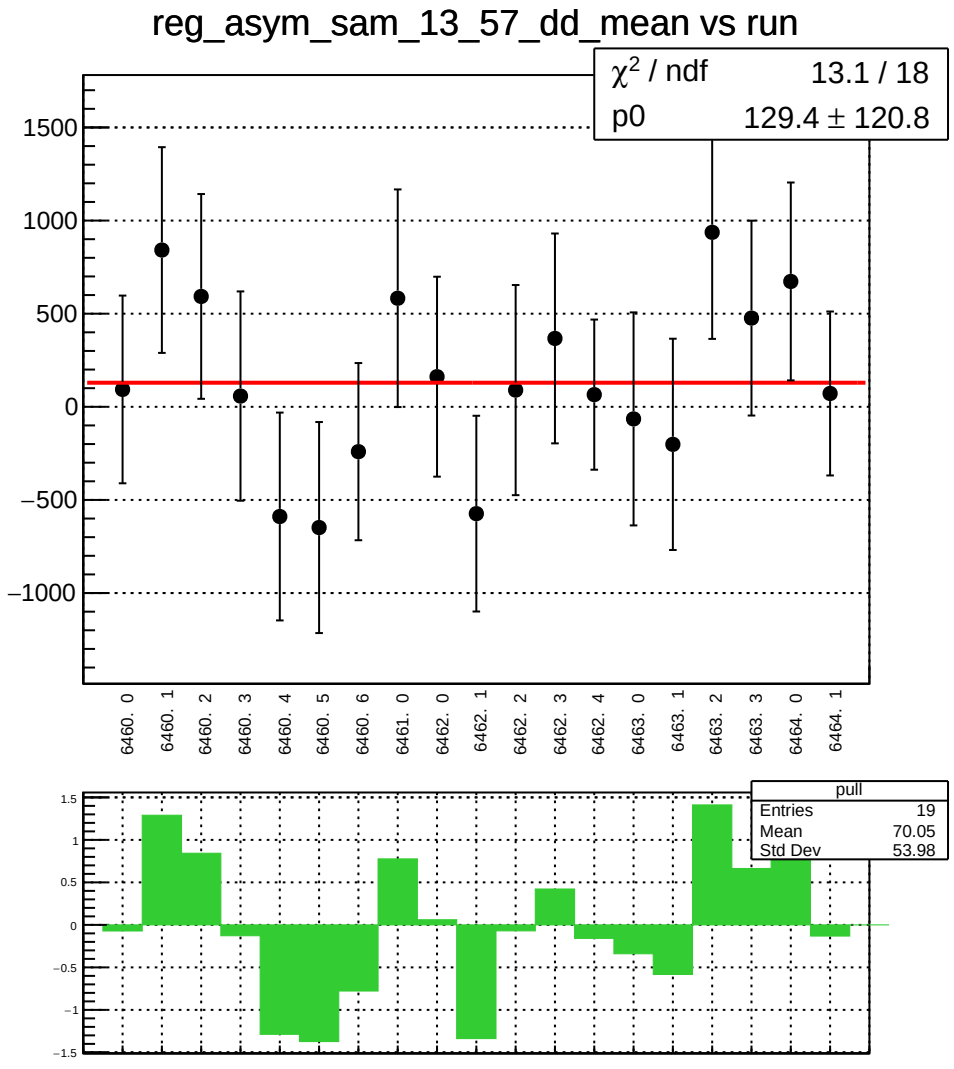

pull1D
Entries 19
Mean −0.003333
Std Dev 0.6352
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

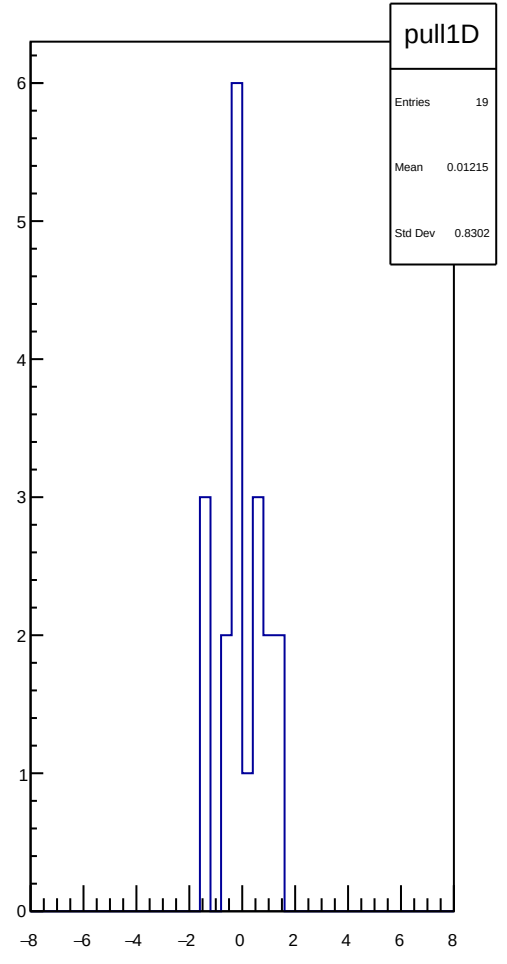

asym_sam_48_dd_correction_rms vs run
χ² / ndf 667.1 / 18
p0 1139 ± 1.853
1250
1200
1150
1100
1050
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

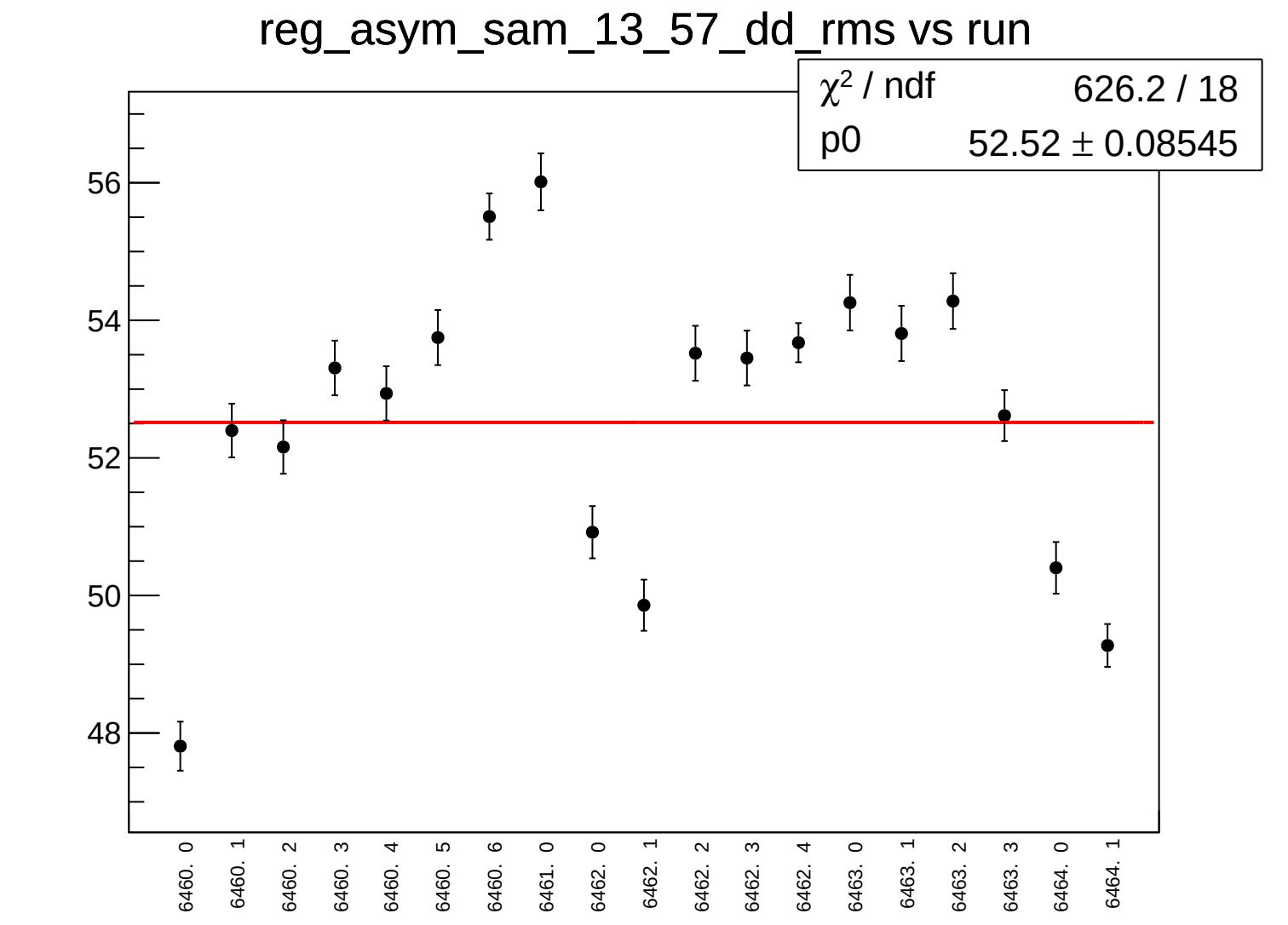

asym_sam_48_dd_mean vs run
χ² / ndf 7.996 / 18
p0 456.6 ± 2631
30000
20000
10000
0
−10000
−20000
−30000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −34.44
Std Dev 11.82
1
0.5
0
−0.5
−1

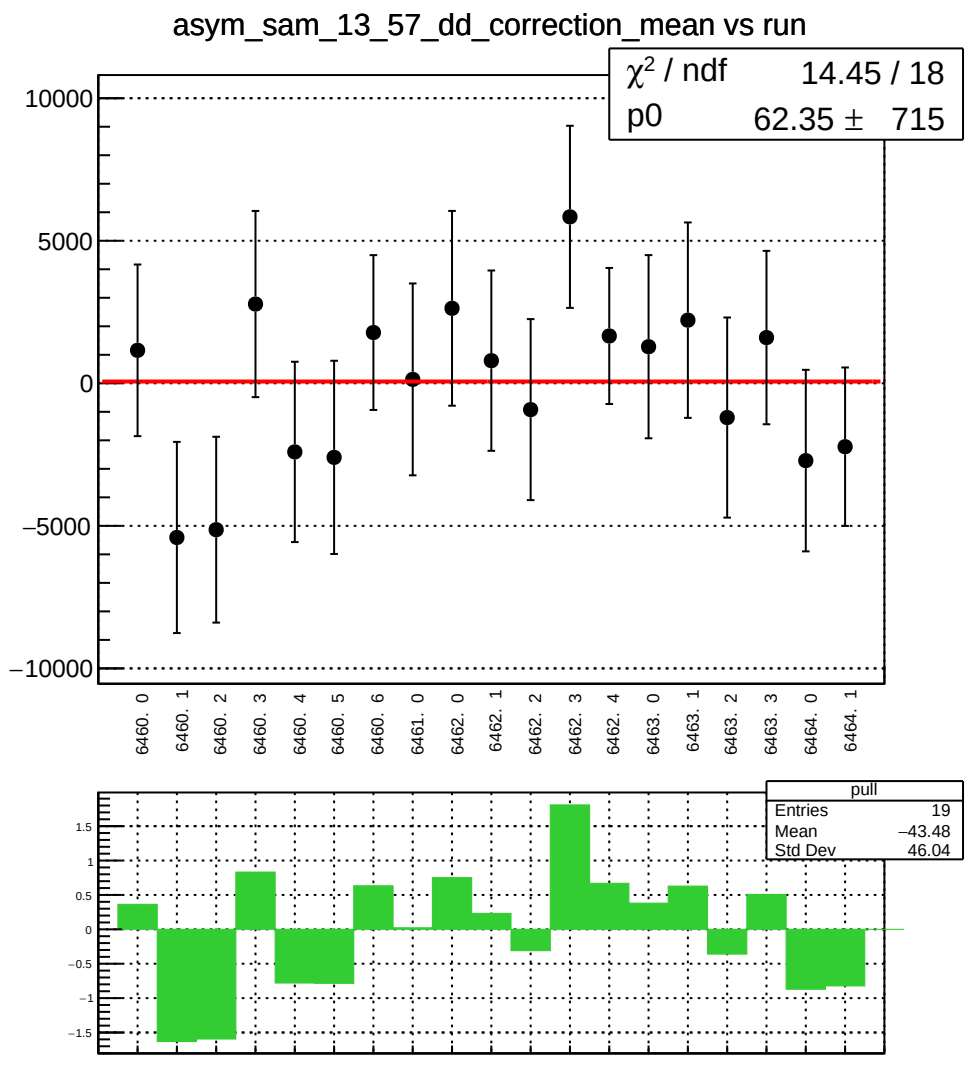

pull1D
Entries 19
Mean 0.00287
Std Dev 0.6487
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

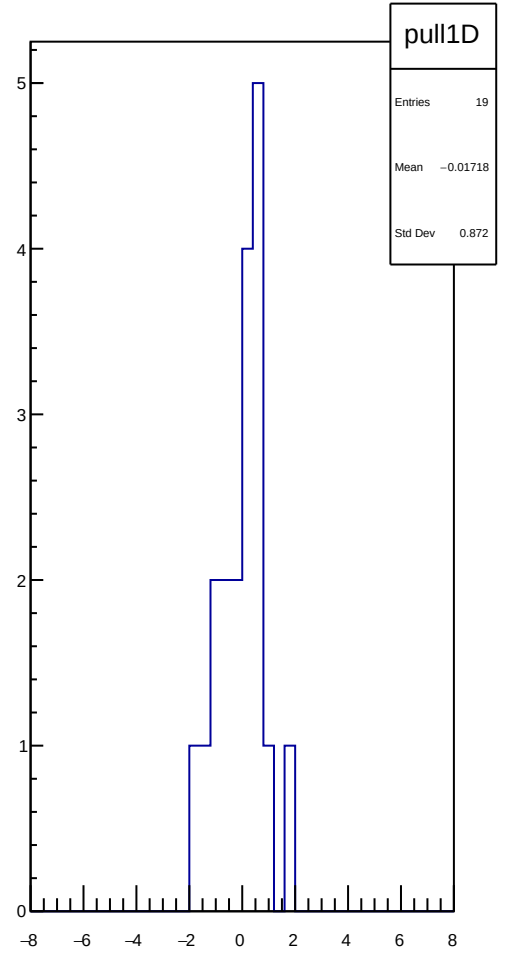

asym_sam_48_dd_rms vs run
χ² / ndf 661.3 / 18
p0 1144 ± 1.861
1260
1240
1220
1200
1180
1160
1140
1120
1100
1080
1060
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

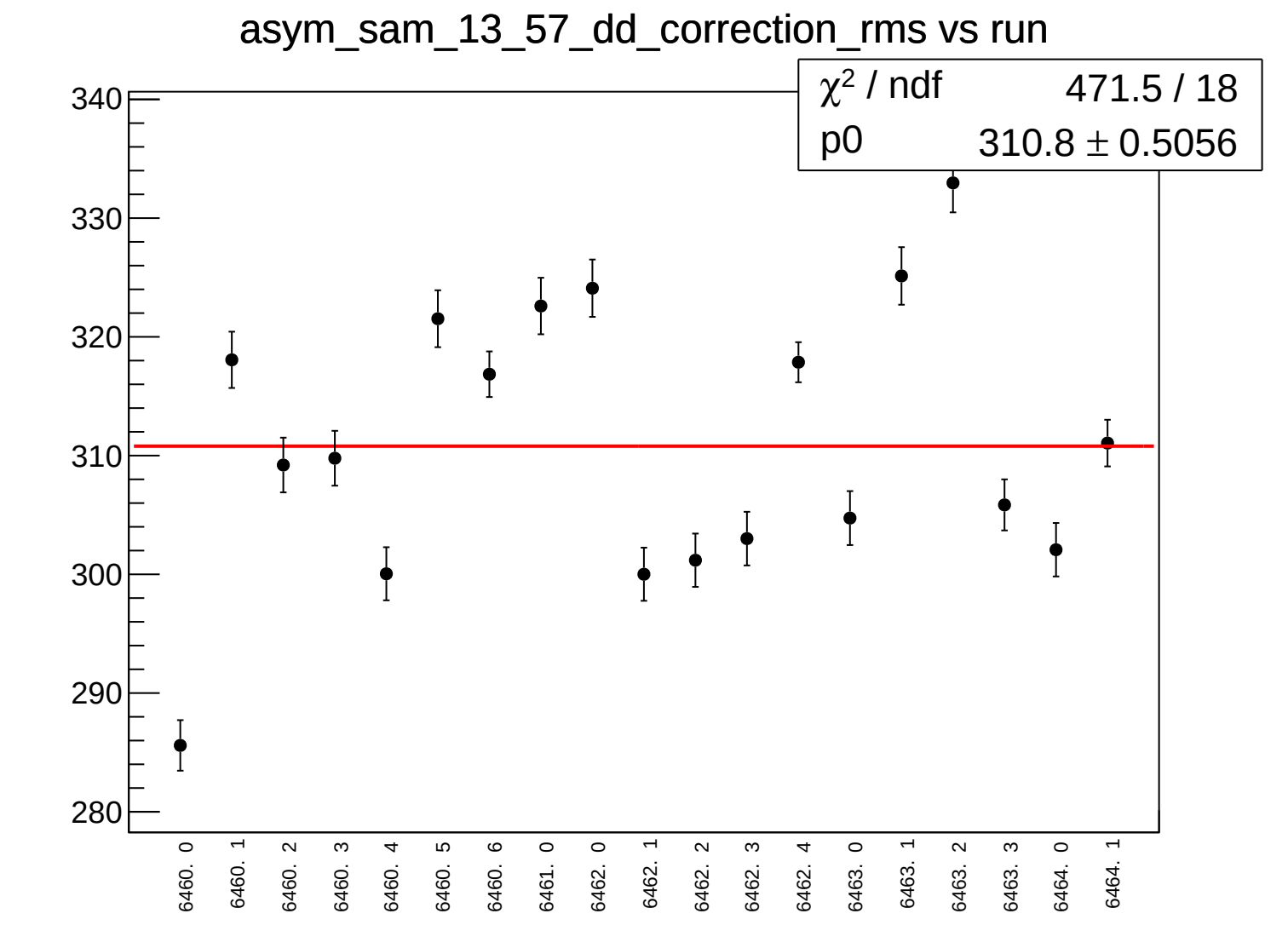

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 13.1 / 18
p0 129.4 ± 120.8
1500
1000
500
0
−500
−1000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 70.05
Std Dev 53.98
1.5
1
0.5
0
−0.5
−1
−1.5

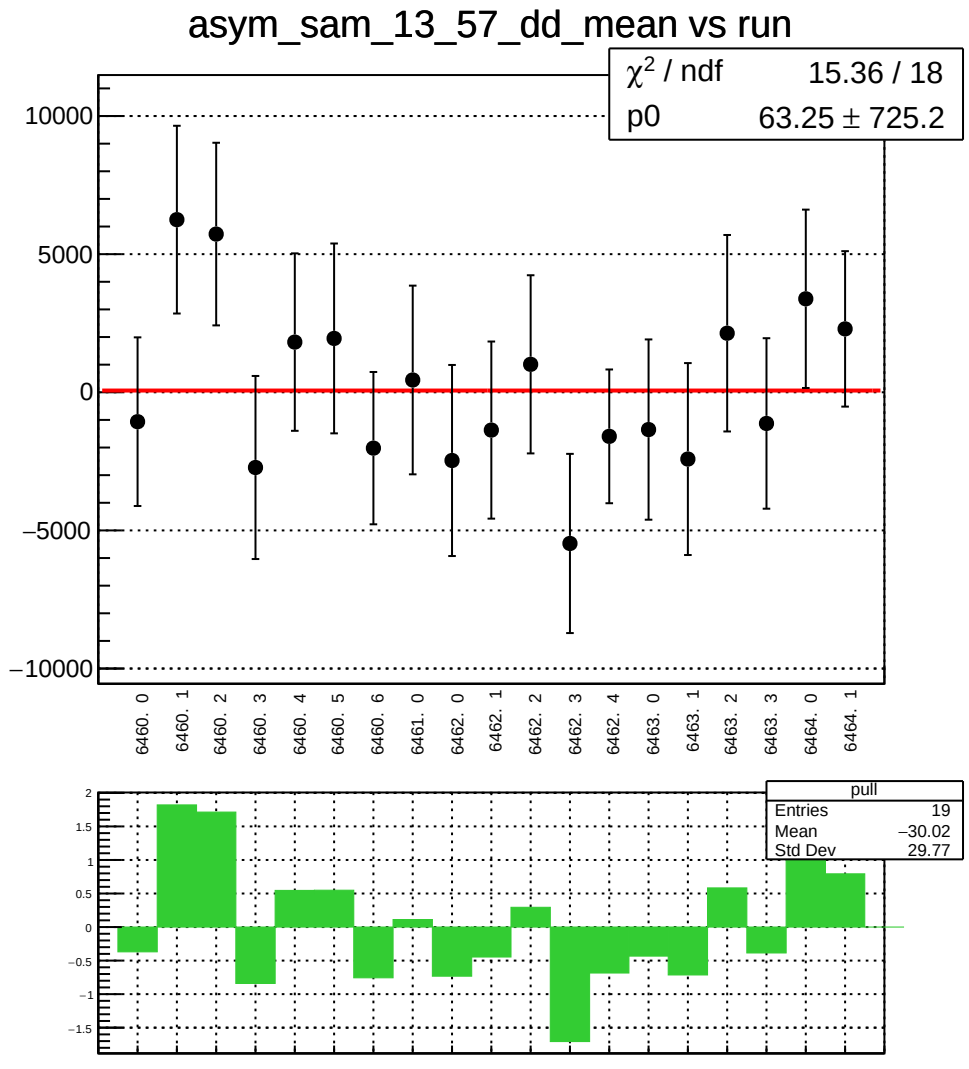

pull1D
Entries 19
Mean 0.01215
Std Dev 0.8302
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

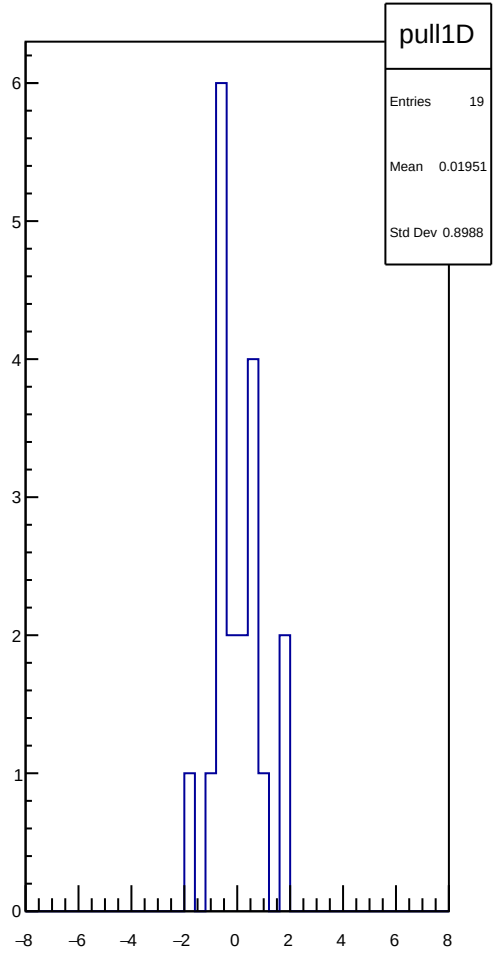

reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 626.2 / 18
p0 52.52 ± 0.08545
56
54
52
50
48
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

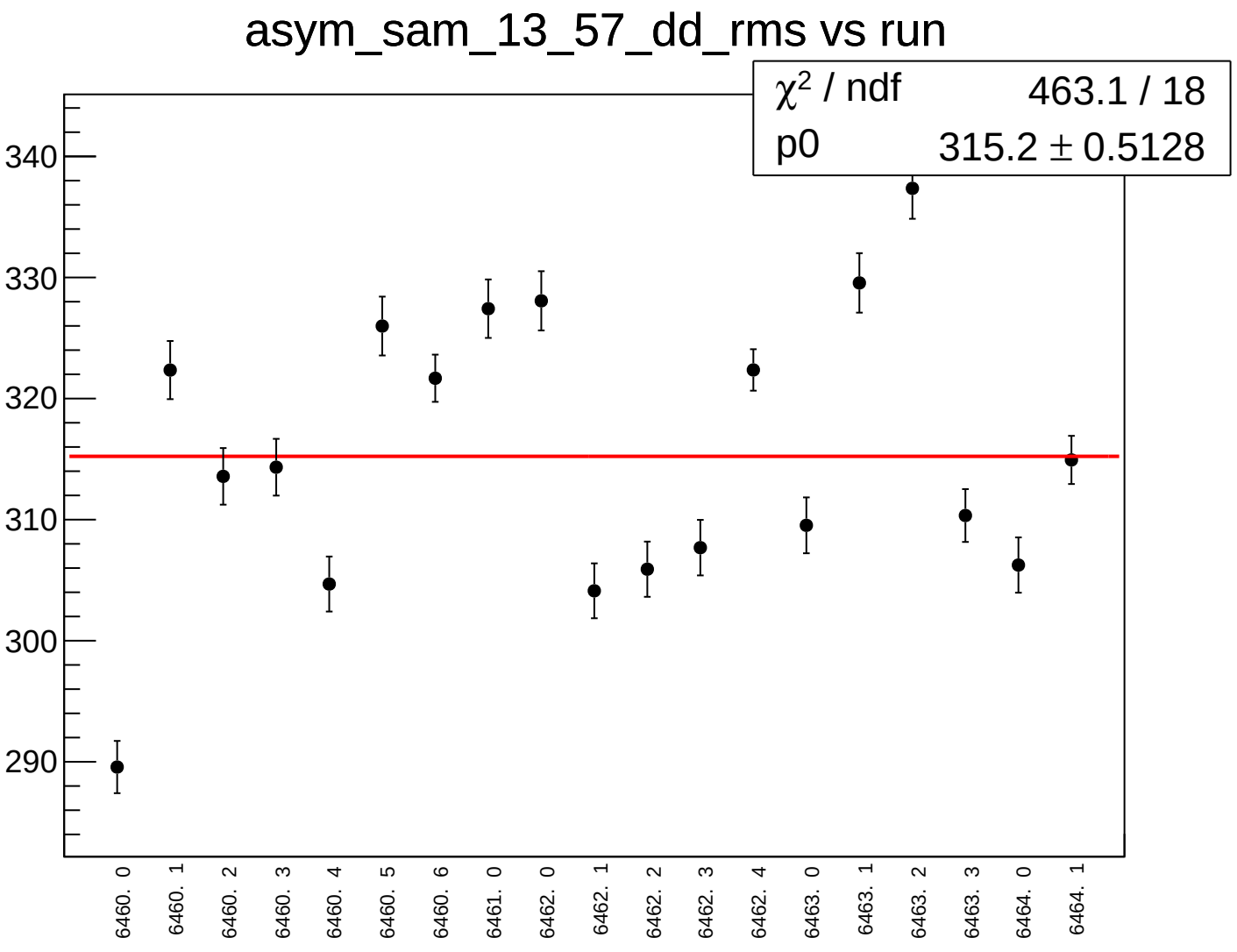

asym_sam_13_57_dd_correction_mean vs run
χ² / ndf 14.45 / 18
p0 62.35 ± 715
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −43.48
Std Dev 46.04
1.5
1
0.5
0
−0.5
−1
−1.5

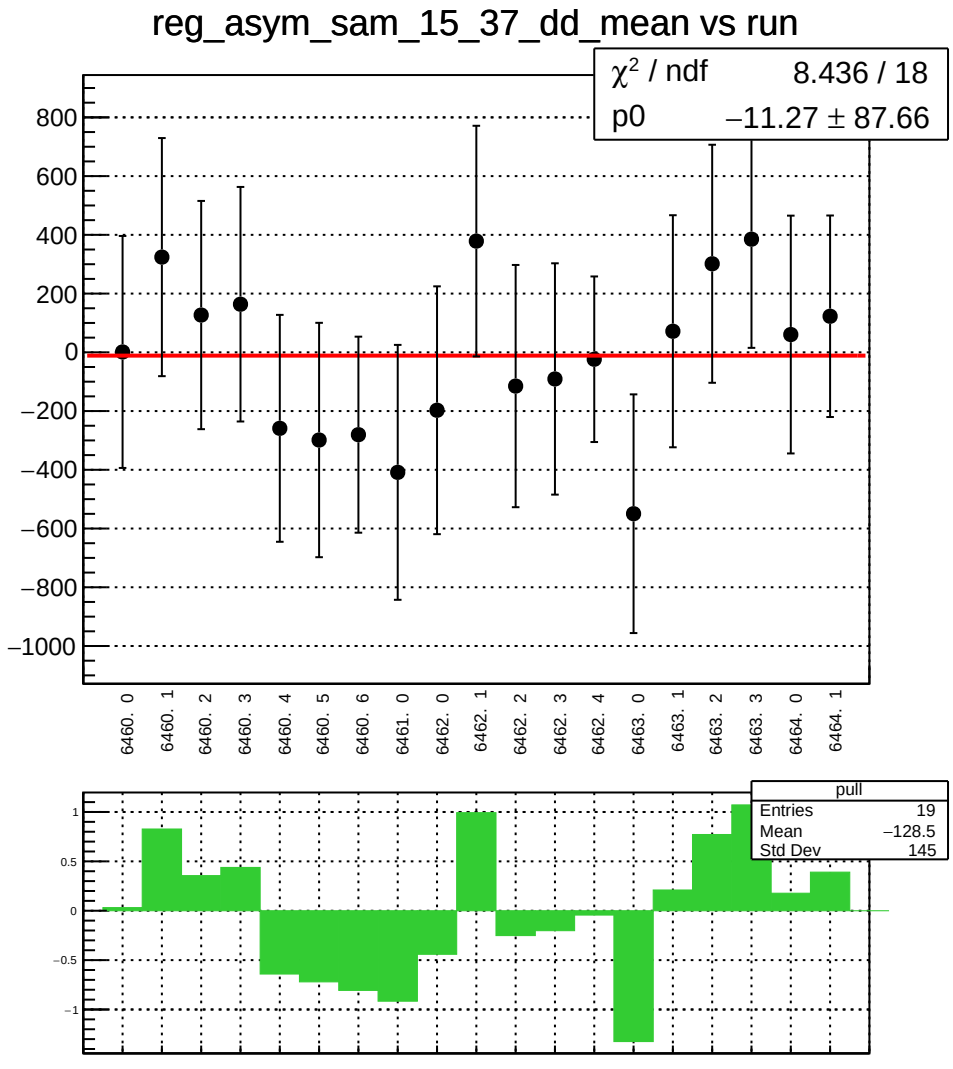

pull1D
Entries 19
Mean −0.01718
Std Dev 0.872
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

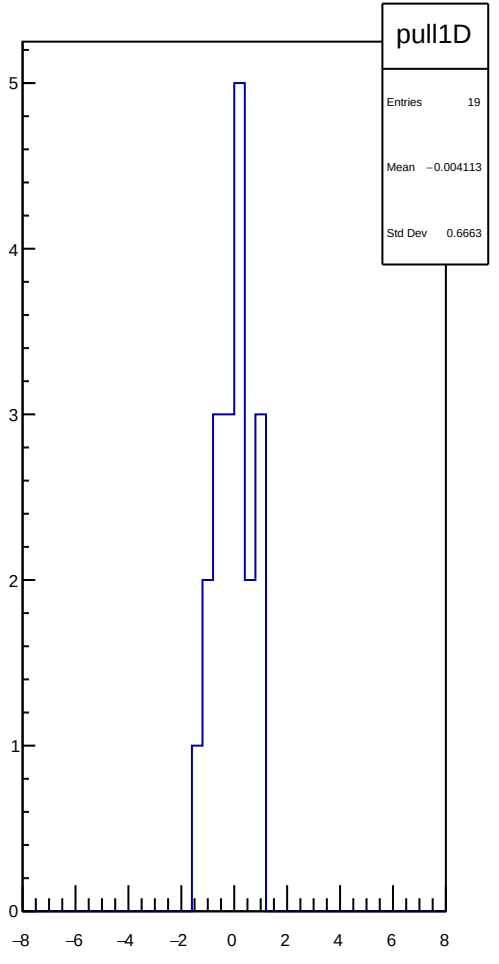

asym_sam_13_57_dd_correction_rms vs run
χ² / ndf 471.5 / 18
p0 310.8 ± 0.5056
340
330
320
310
300
290
280
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

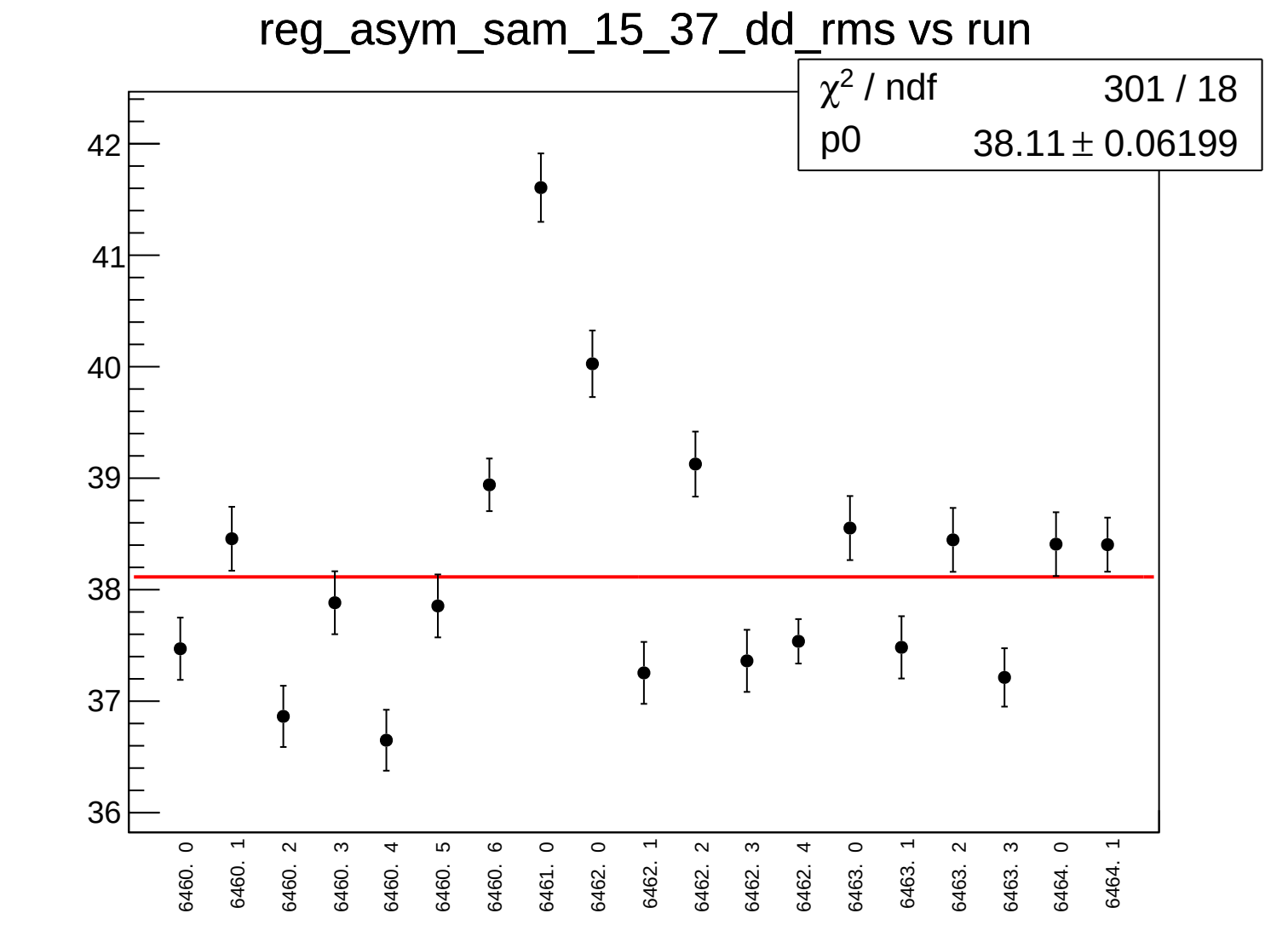

asym_sam_13_57_dd_mean vs run
χ² / ndf 15.36 / 18
p0 63.25 ± 725.2
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −30.02
Std Dev 29.77
2
1.5
1
0.5
0
−0.5
−1
−1.5

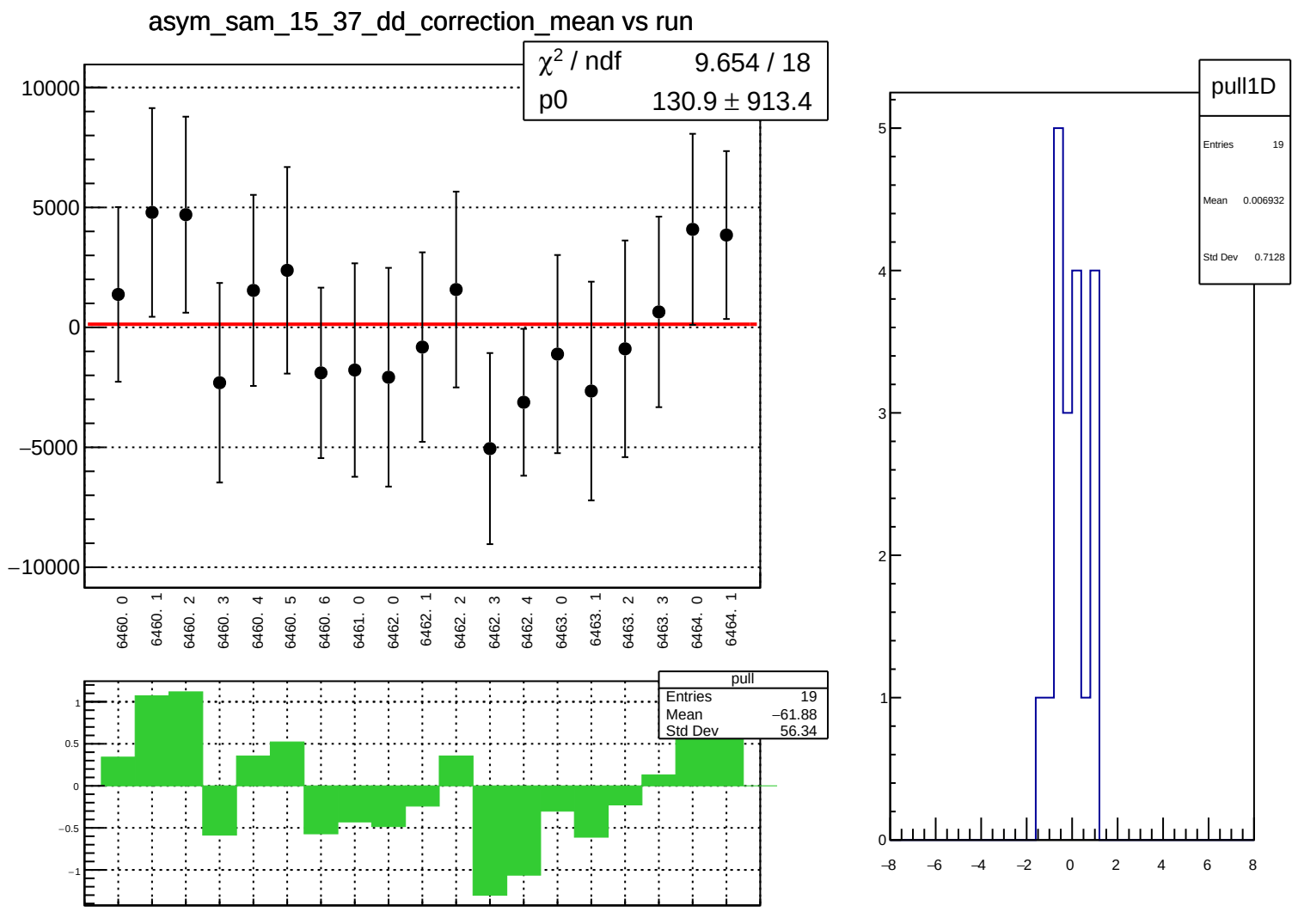

pull1D
Entries 19
Mean 0.01951
Std Dev 0.8988
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

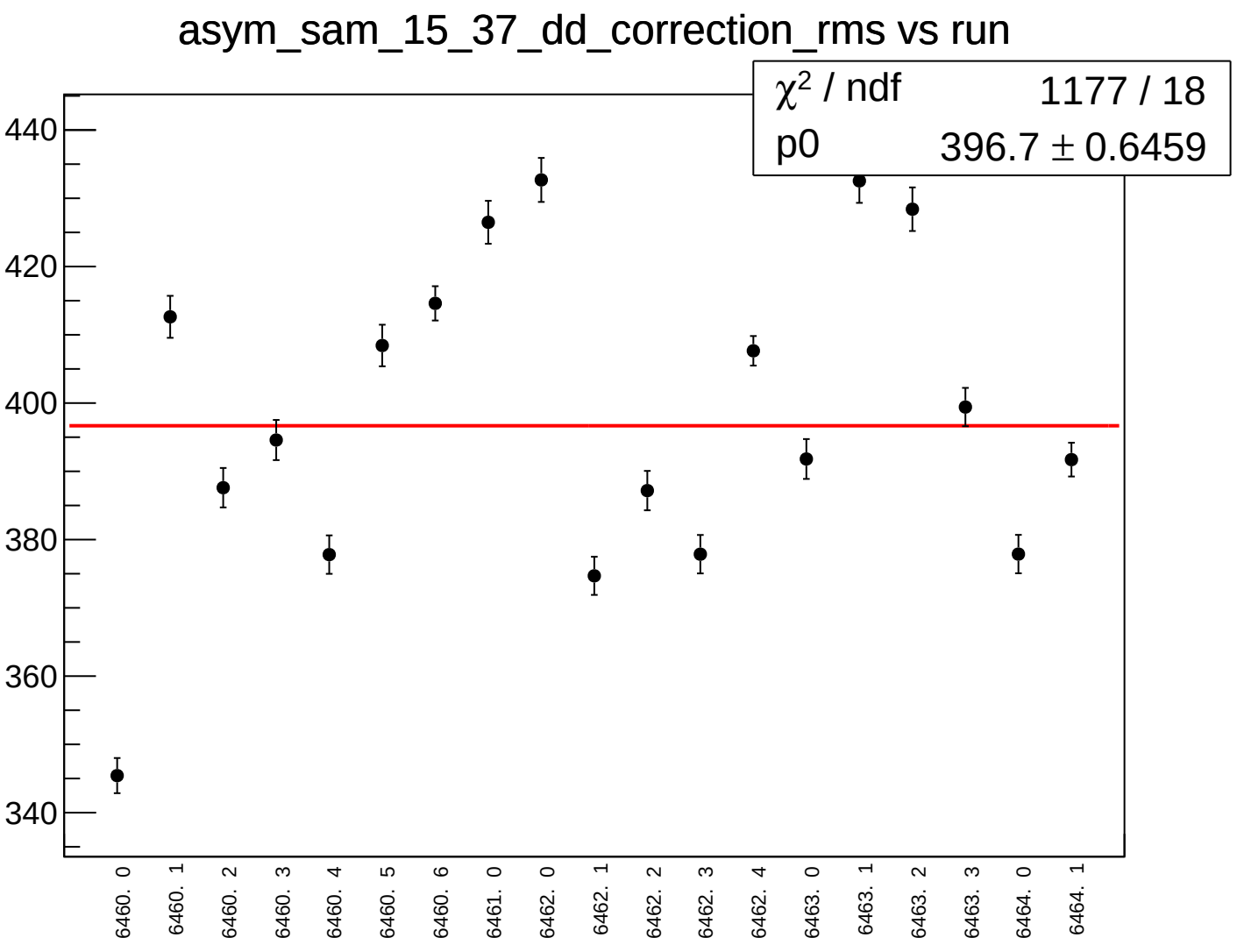

asym_sam_13_57_dd_rms vs run
χ² / ndf 463.1 / 18
p0 315.2 ± 0.5128
340
330
320
310
300
290
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

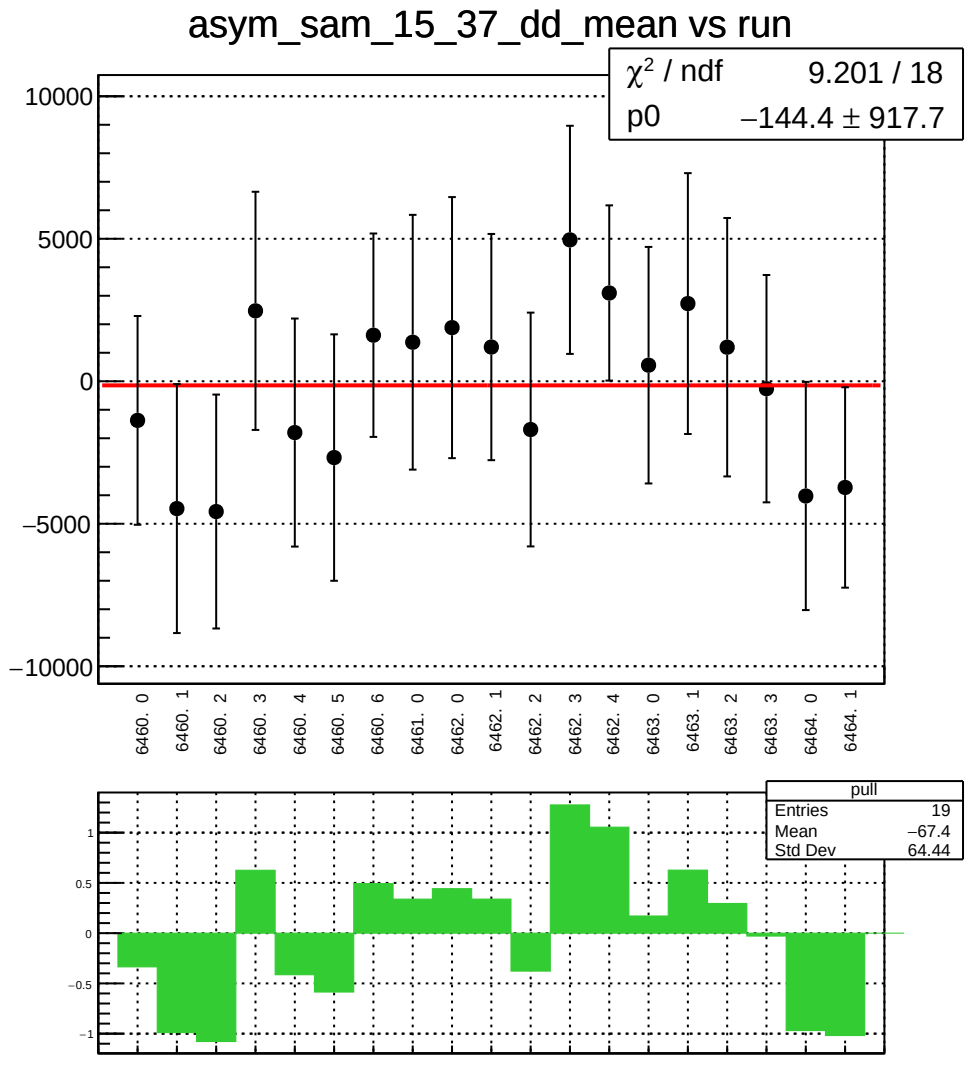

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 8.436 / 18
p0 −11.27 ± 87.66
800
600
400
200
0
−200
−400
−600
−800
−1000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −128.5
Std Dev 145
1
0.5
0
−0.5
−1

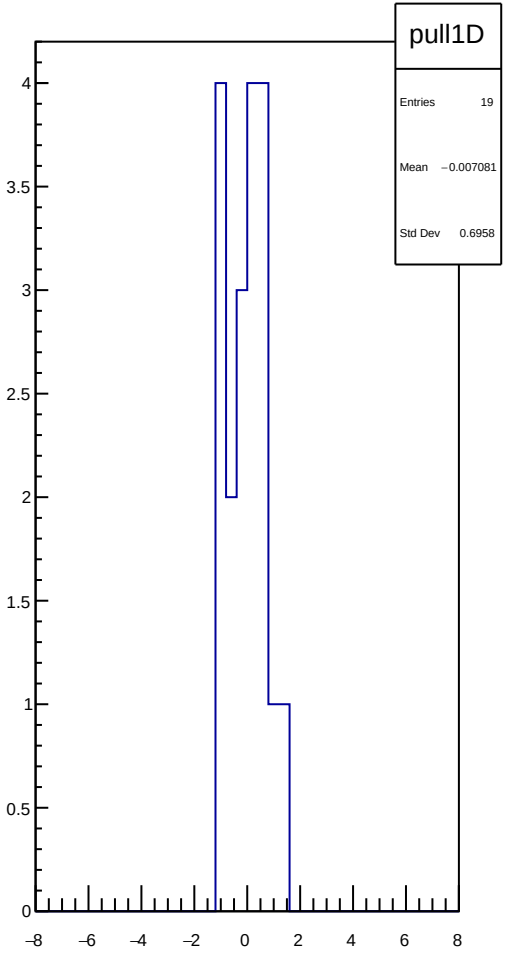

pull1D
Entries 19
Mean −0.004113
Std Dev 0.6663
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

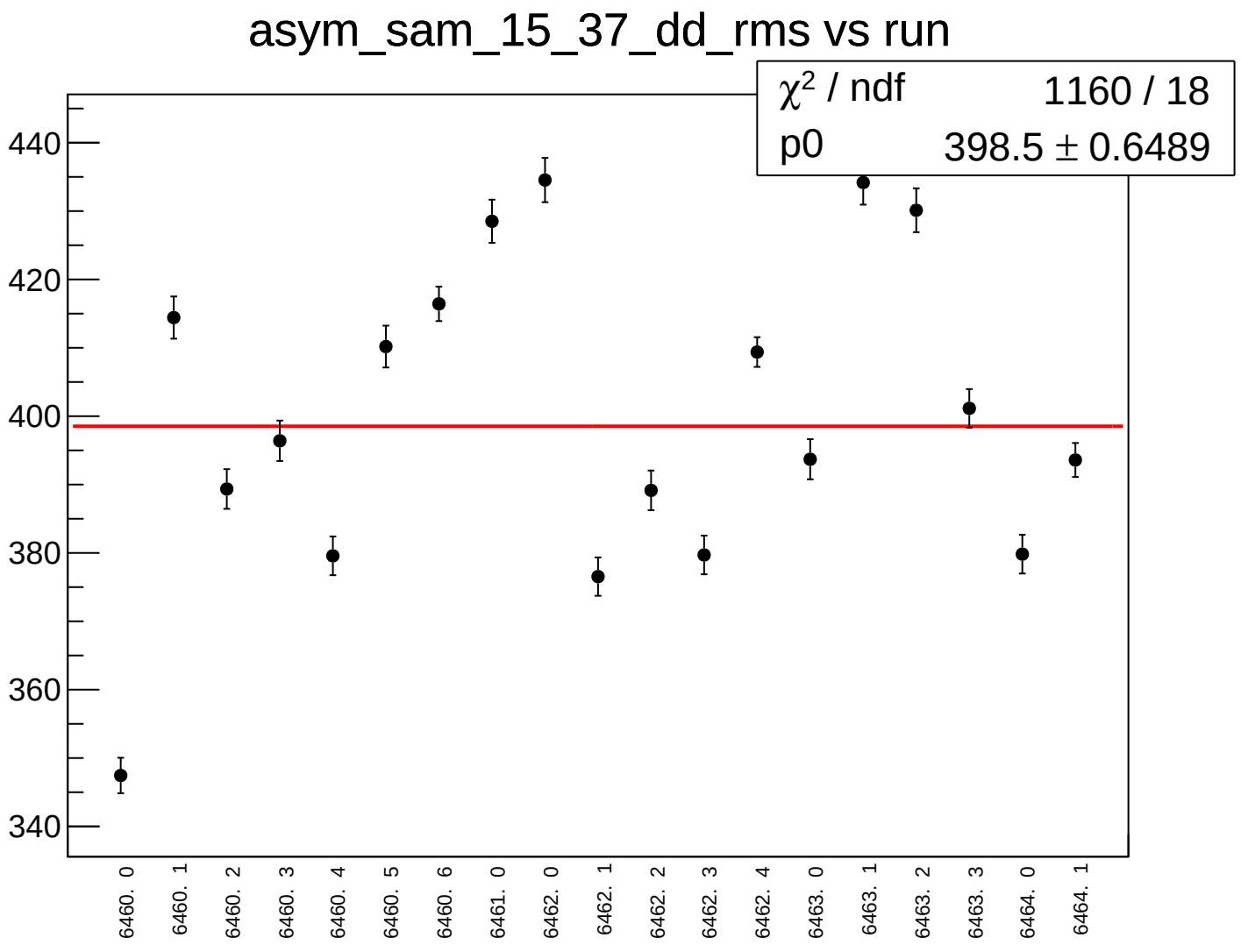

reg_asym_sam_15_37_dd_rms vs run
χ² / ndf 301 / 18
p0 38.11 ± 0.06199
42
41
40
39
38
37
36
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

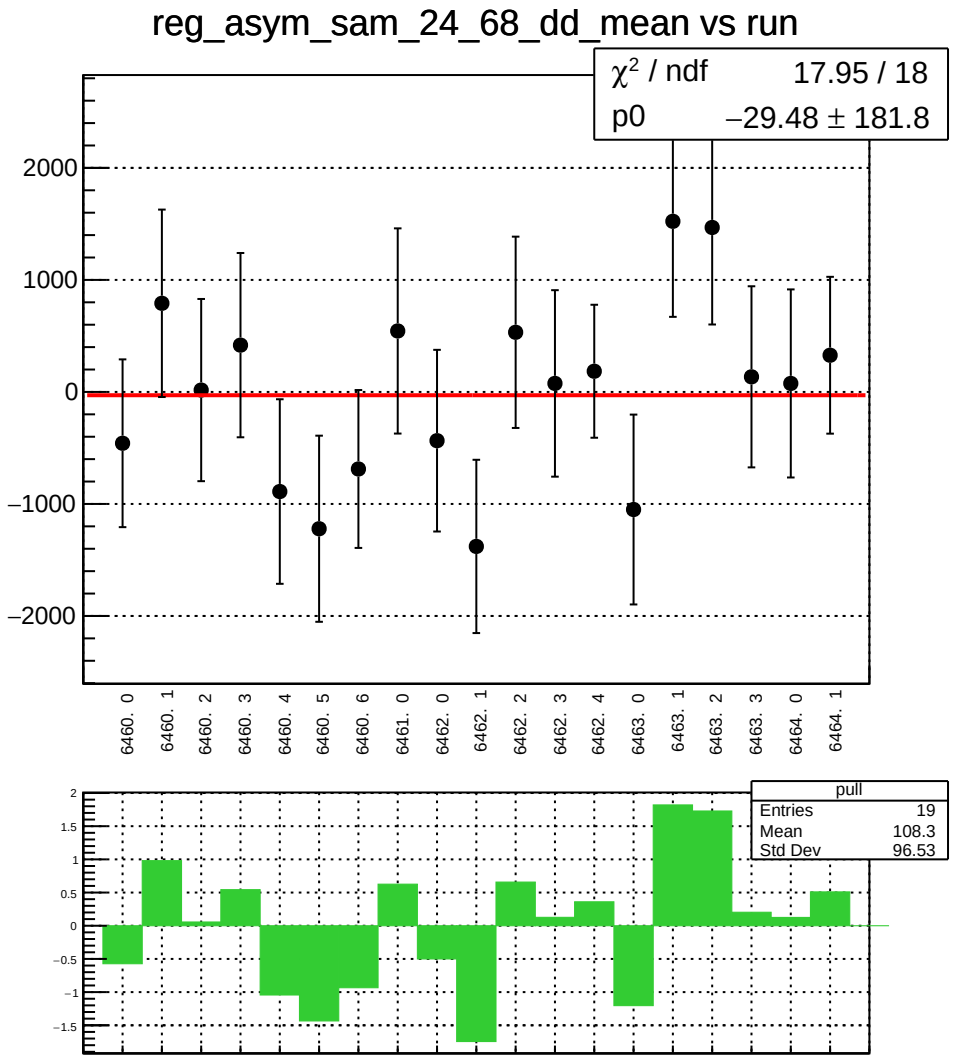

asym_sam_15_37_dd_correction_mean vs run
χ² / ndf 9.654 / 18
p0 130.9 ± 913.4
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −61.88
Std Dev 56.34
1
0.5
0
−0.5
−1
pull1D
Entries 19
Mean 0.006932
Std Dev 0.7128
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

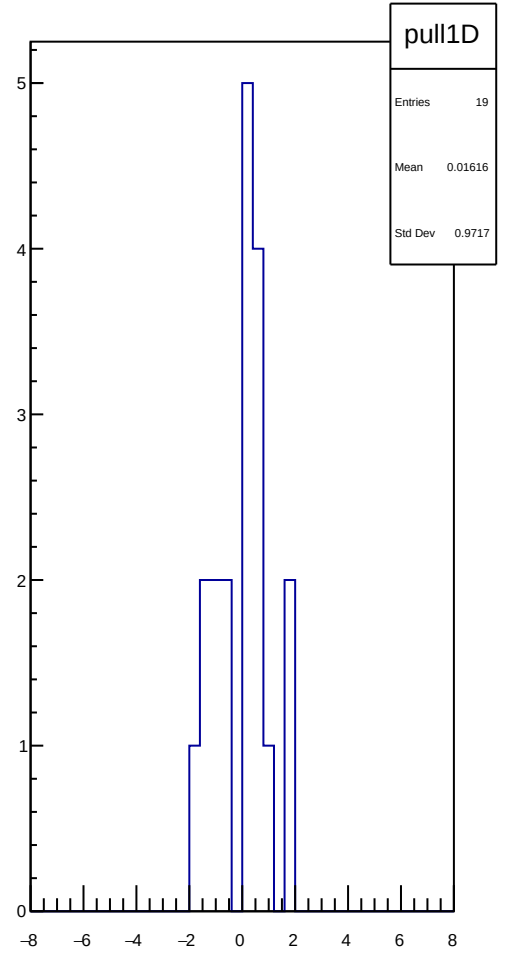

asym_sam_15_37_dd_correction_rms vs run
χ² / ndf 1177 / 18
p0 396.7 ± 0.6459
440
420
400
380
360
340
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

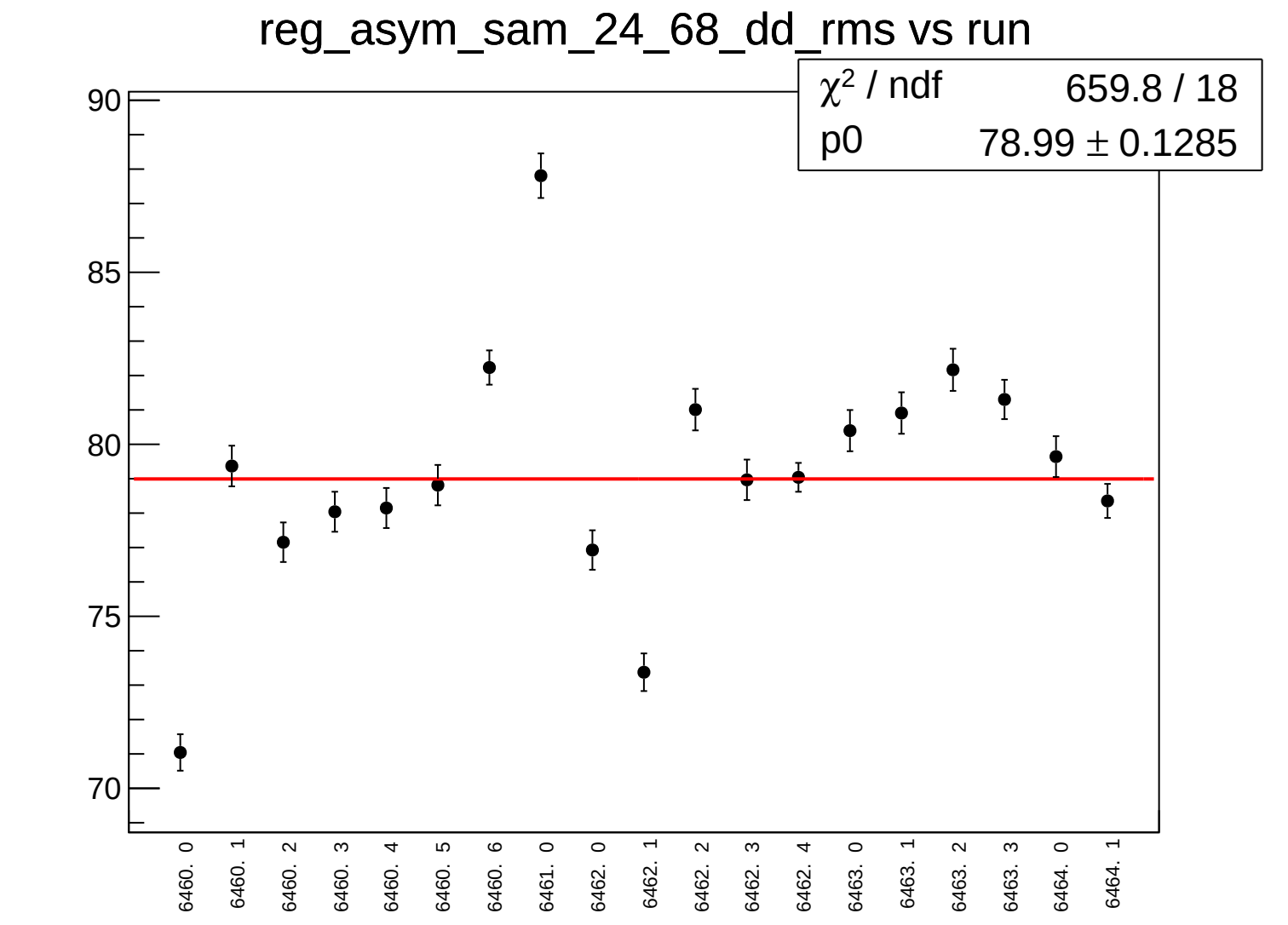

asym_sam_15_37_dd_mean vs run
χ² / ndf 9.201 / 18
p0 −144.4 ± 917.7
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −67.4
Std Dev 64.44
1
0.5
0
−0.5
−1

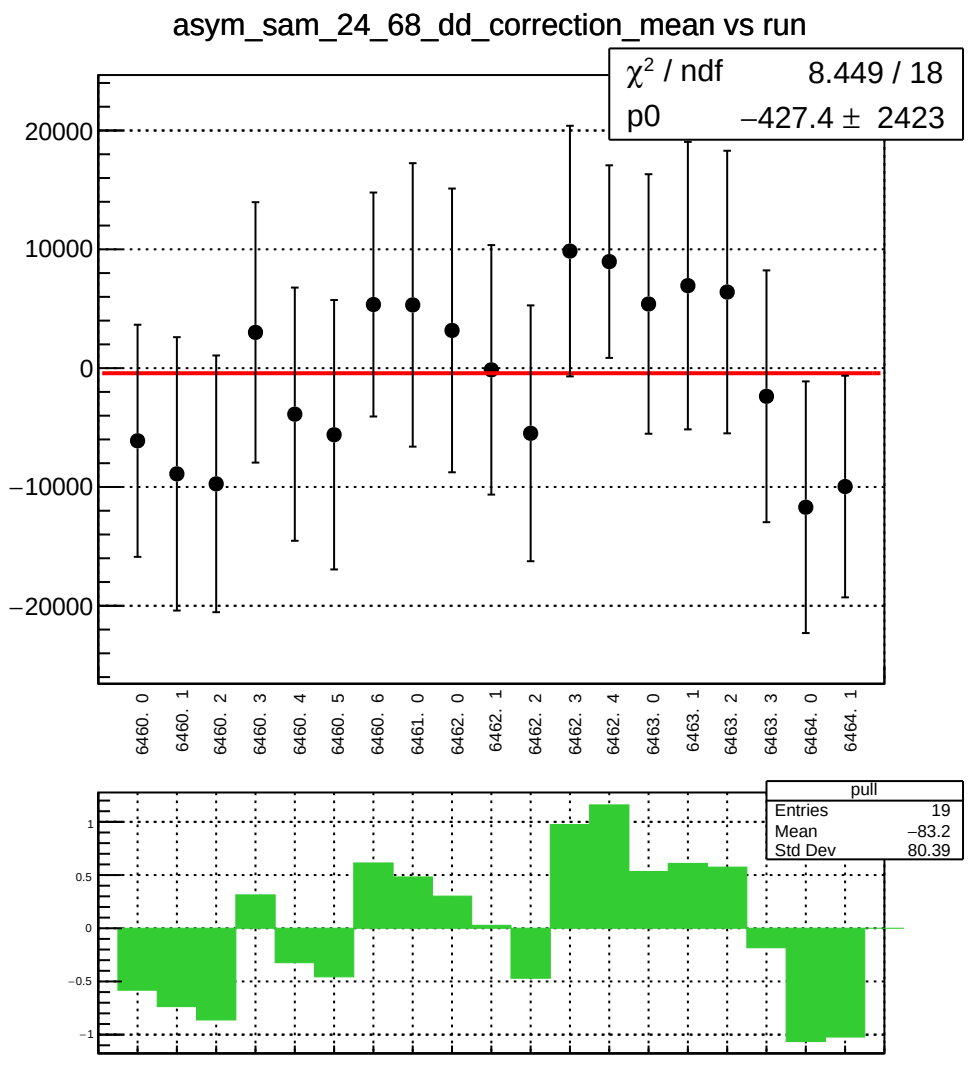

pull1D
Entries 19
Mean −0.007081
Std Dev 0.6958
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

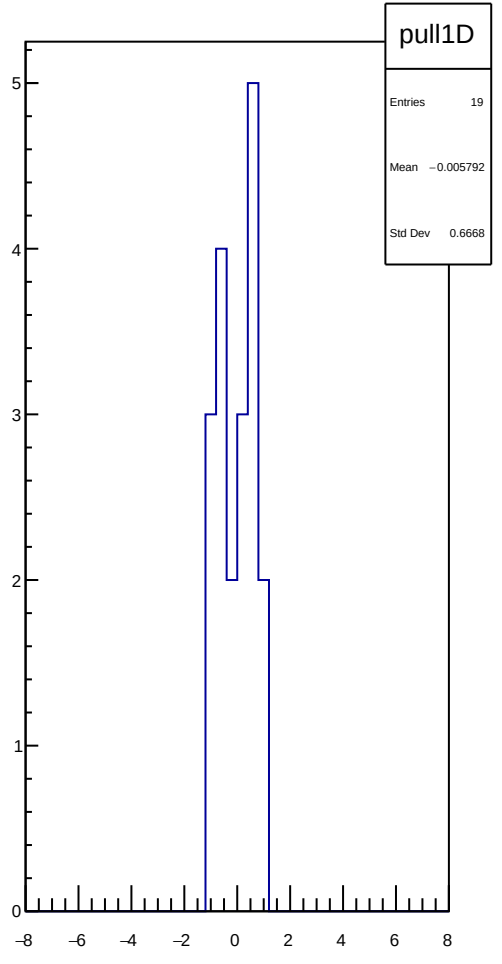

asym_sam_15_37_dd_rms vs run
χ² / ndf 1160 / 18
p0 398.5 ± 0.6489
440
420
400
380
360
340
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

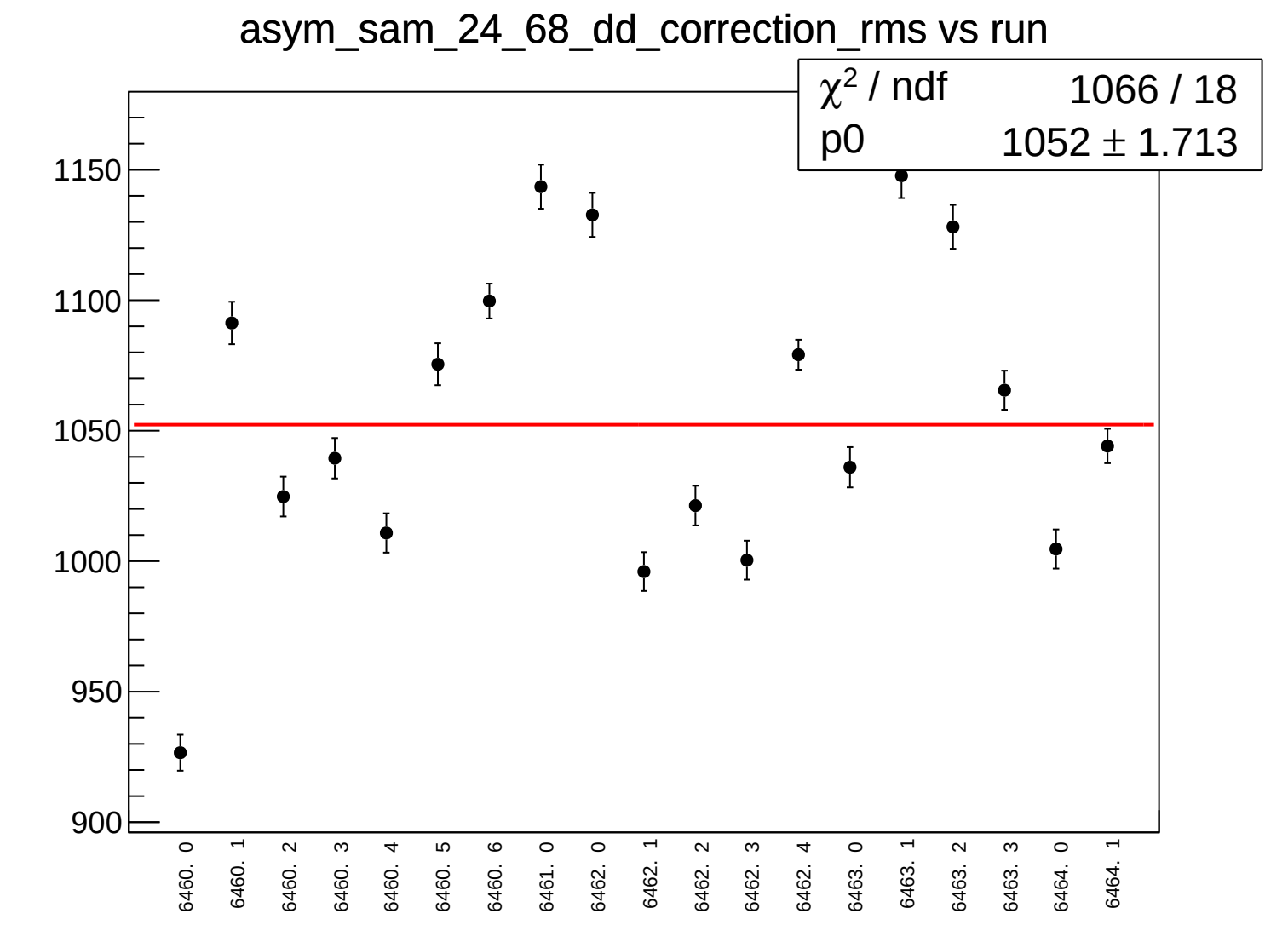

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 17.95 / 18
p0 −29.48 ± 181.8
2000
1000
0
−1000
−2000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 108.3
Std Dev 96.53
2
1.5
1
0.5
0
−0.5
−1
−1.5

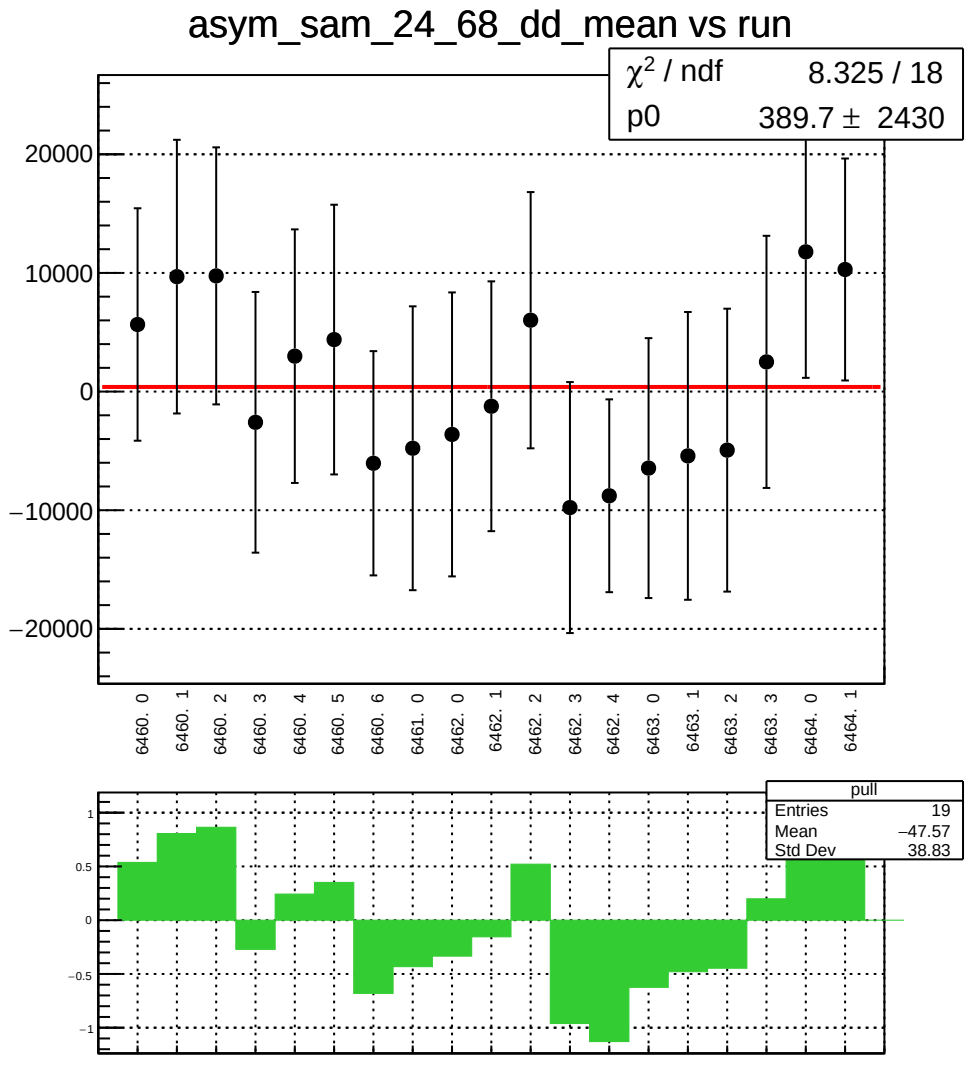

pull1D
Entries 19
Mean 0.01616
Std Dev 0.9717
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

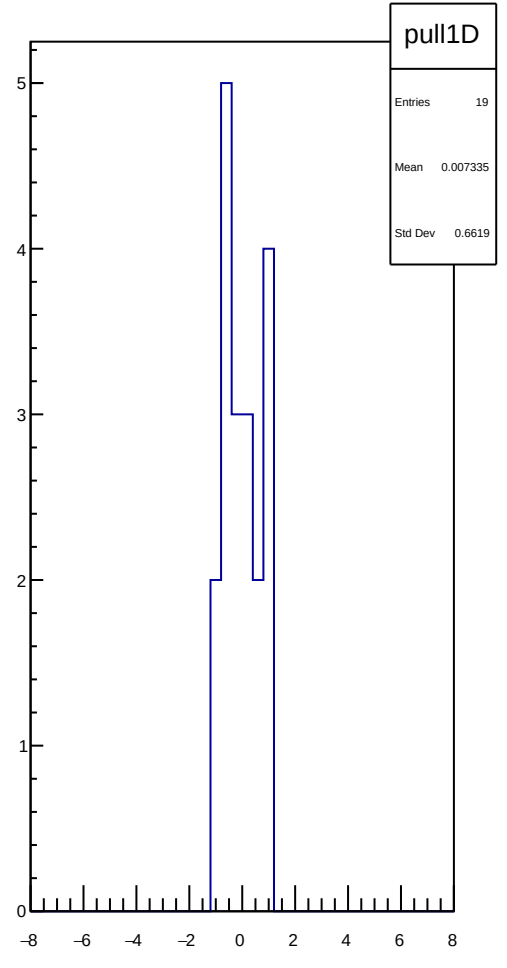

reg_asym_sam_24_68_dd_rms vs run
χ² / ndf 659.8 / 18
p0 78.99 ± 0.1285
90
85
80
75
70
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

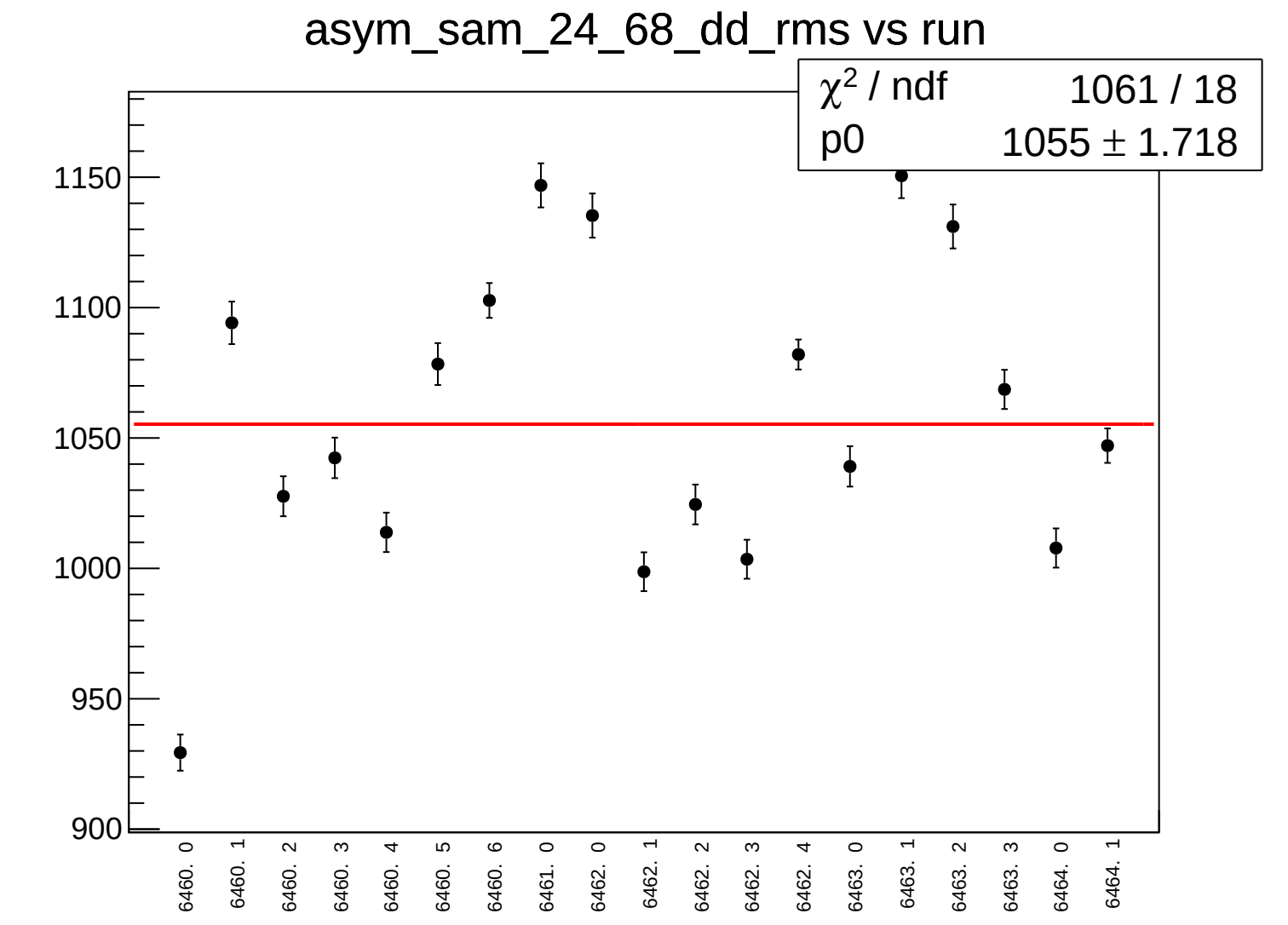

asym_sam_24_68_dd_correction_mean vs run
χ² / ndf 8.449 / 18
p0 −427.4 ± 2423
20000
10000
0
−10000
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −83.2
Std Dev 80.39
1
0.5
0
−0.5
−1

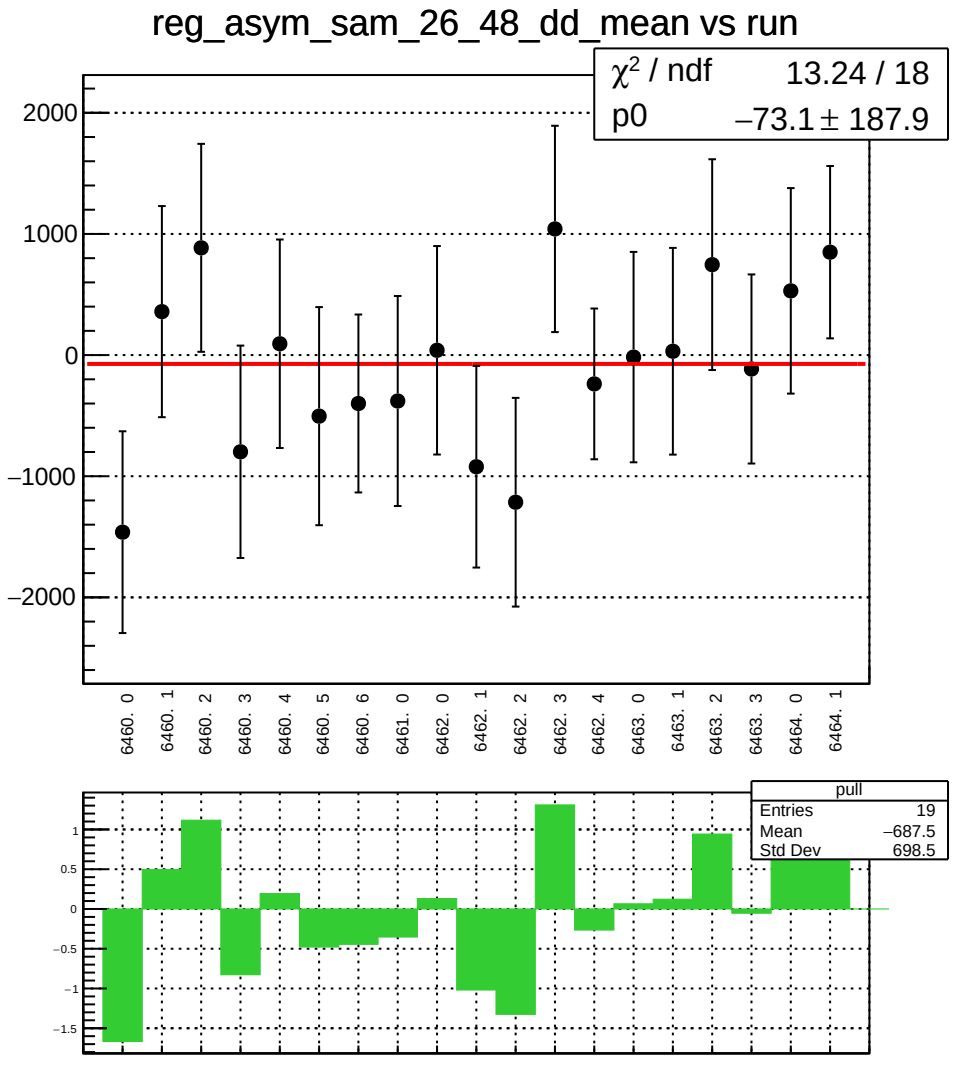

pull1D
Entries 19
Mean −0.005792
Std Dev 0.6668
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

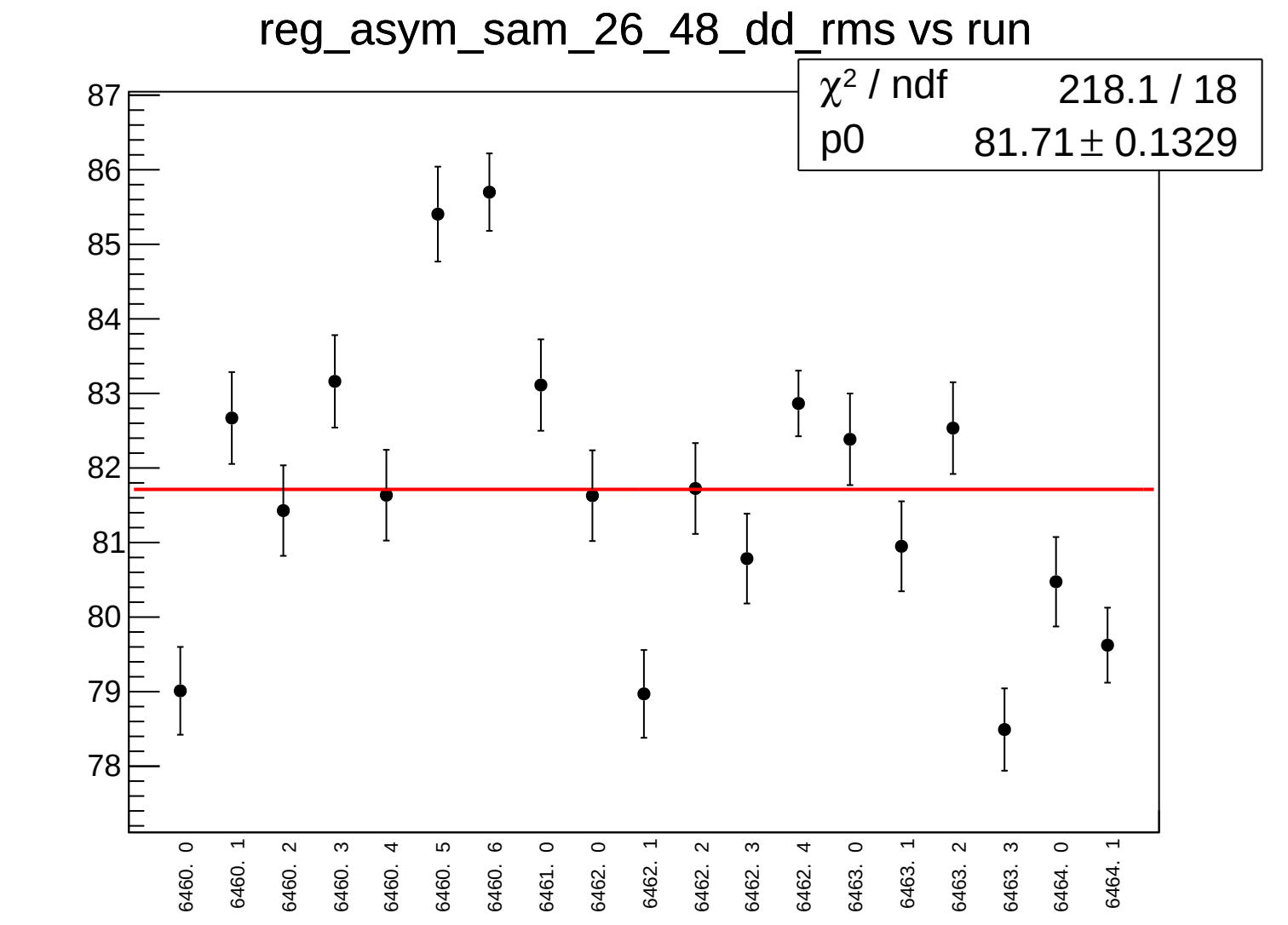

asym_sam_24_68_dd_correction_rms vs run
χ² / ndf 1066 / 18
p0 1052 ± 1.713
1150
1100
1050
1000
950
900
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

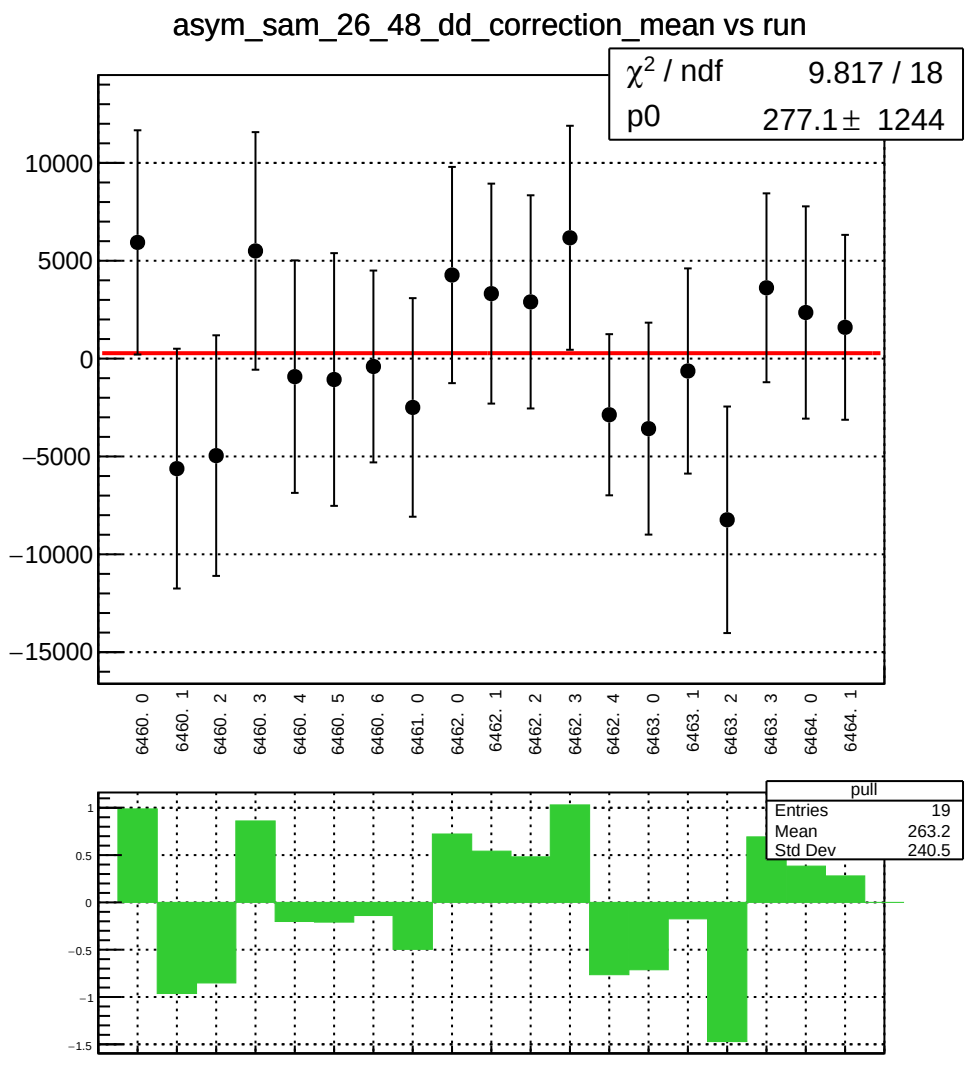

asym_sam_24_68_dd_mean vs run
χ² / ndf 8.325 / 18
p0 389.7 ± 2430
20000
10000
0
−10000
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −47.57
Std Dev 38.83
1
0.5
0
−0.5
−1

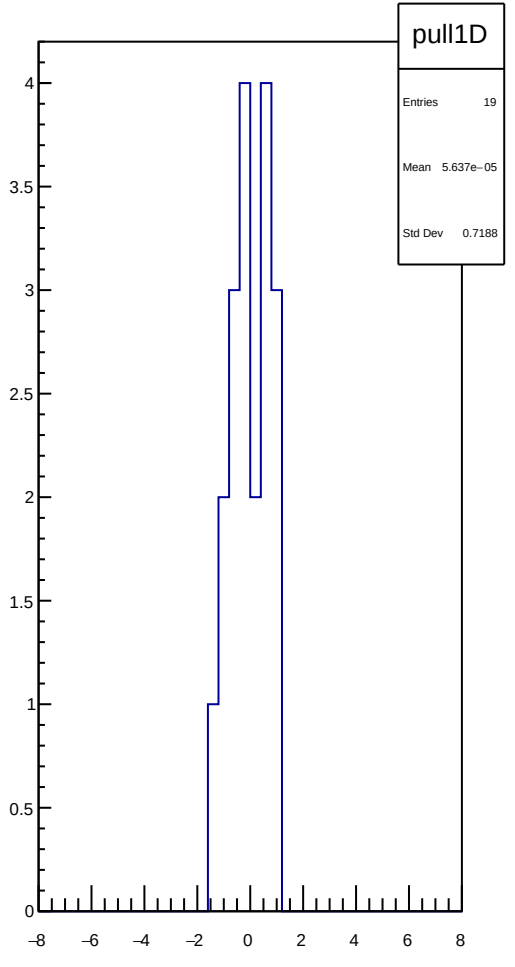

pull1D
Entries 19
Mean 0.007335
Std Dev 0.6619
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

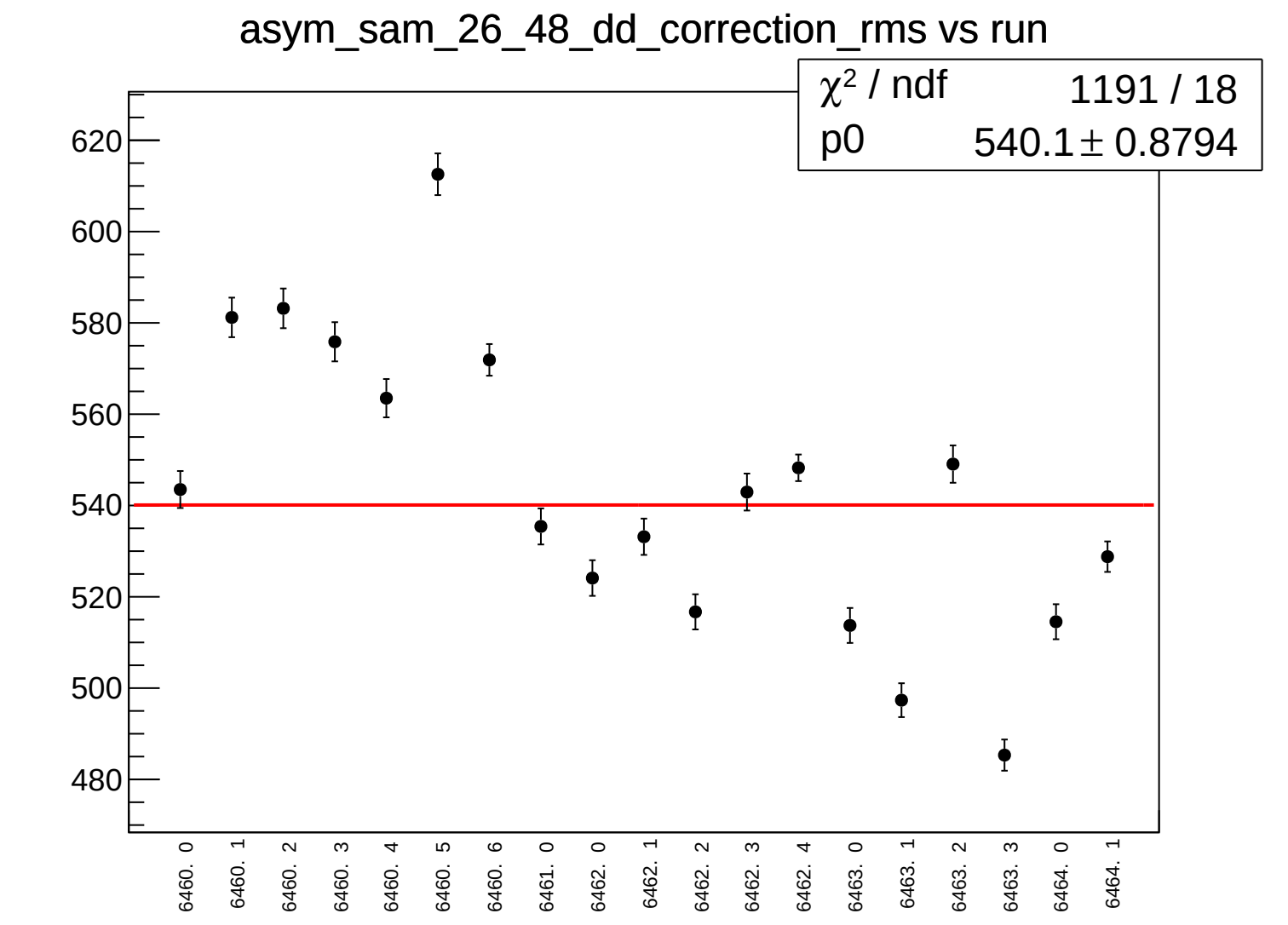

asym_sam_24_68_dd_rms vs run
χ² / ndf 1061 / 18
p0 1055 ± 1.718
1150
1100
1050
1000
950
900
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

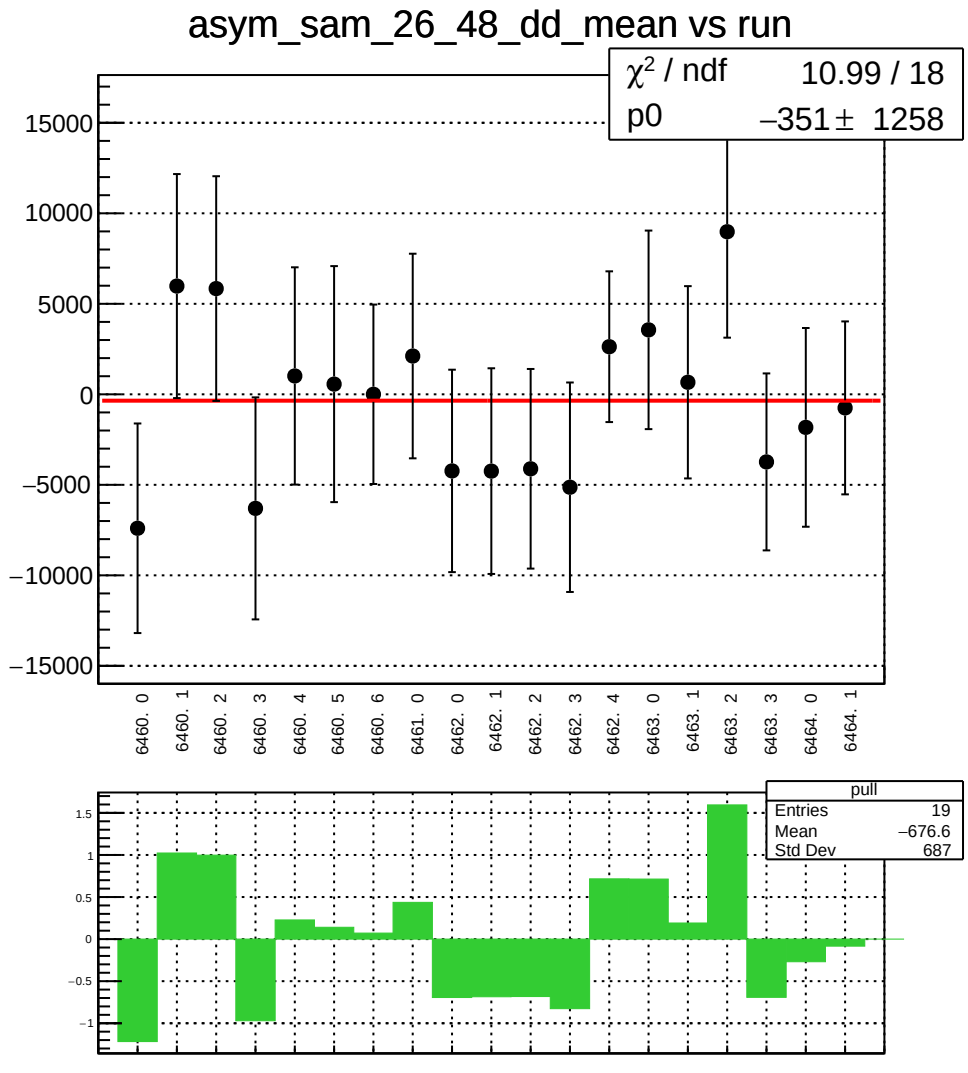

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 13.24 / 18
p0 −73.1 ± 187.9
2000
1000
0
−1000
−2000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −687.5
Std Dev 698.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 19
Mean −0.002647
Std Dev 0.8347
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

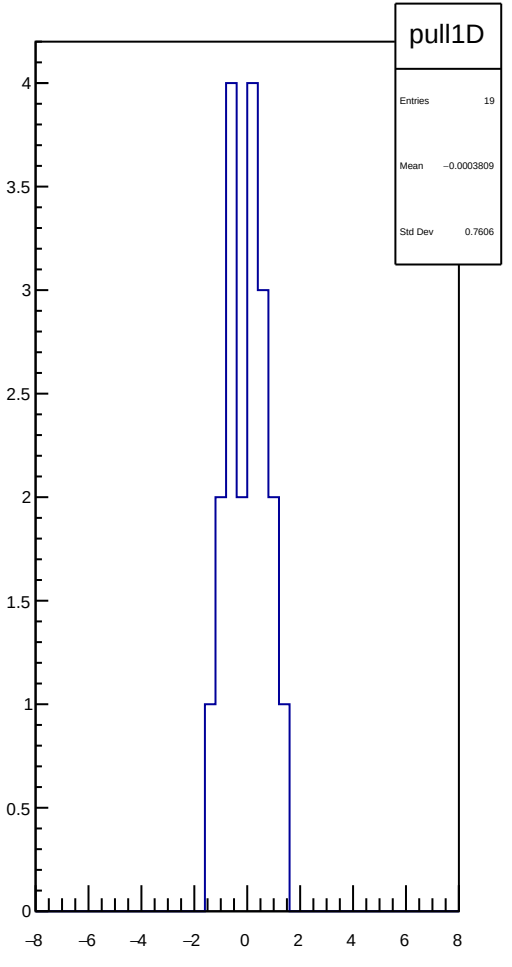

reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 218.1 / 18
p0 81.71 ± 0.1329
87
86
85
84
83
82
81
80
79
78
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

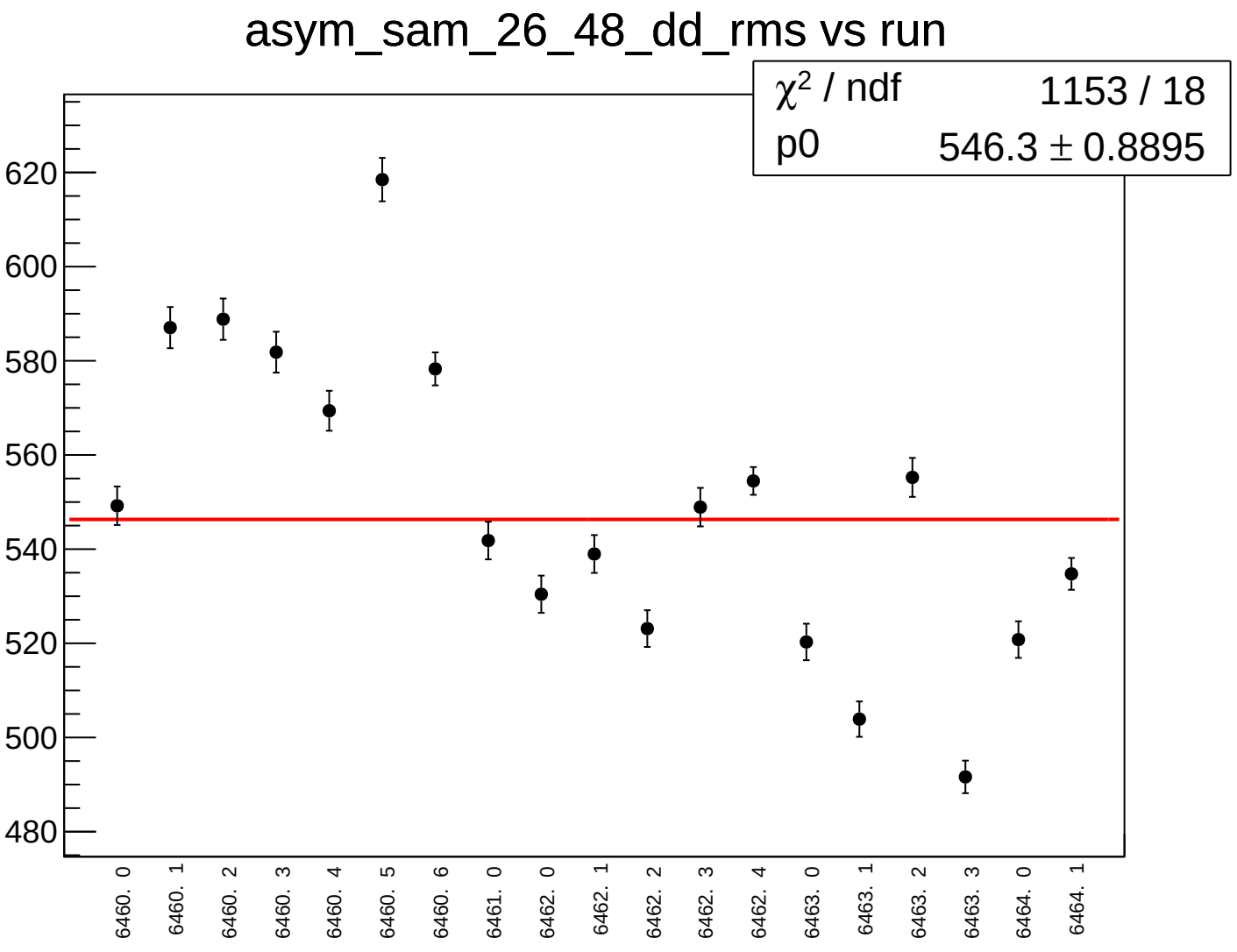

asym_sam_26_48_dd_correction_mean vs run
χ² / ndf 9.817 / 18
p0 277.1± 1244
10000
5000
0
−5000
−10000
−15000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 263.2
Std Dev 240.5
1
0.5
0
−0.5
−1
−1.5

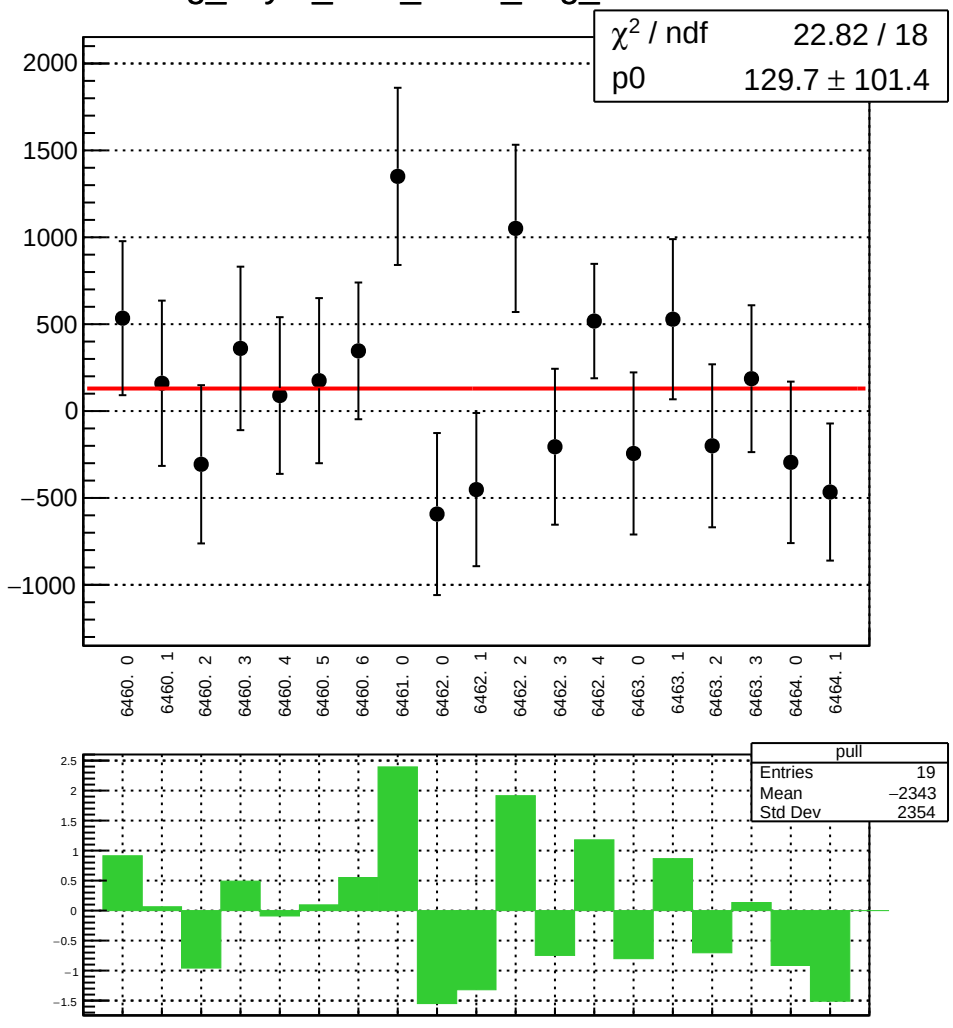

pull1D
Entries 19
Mean 5.637e−05
Std Dev 0.7188
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

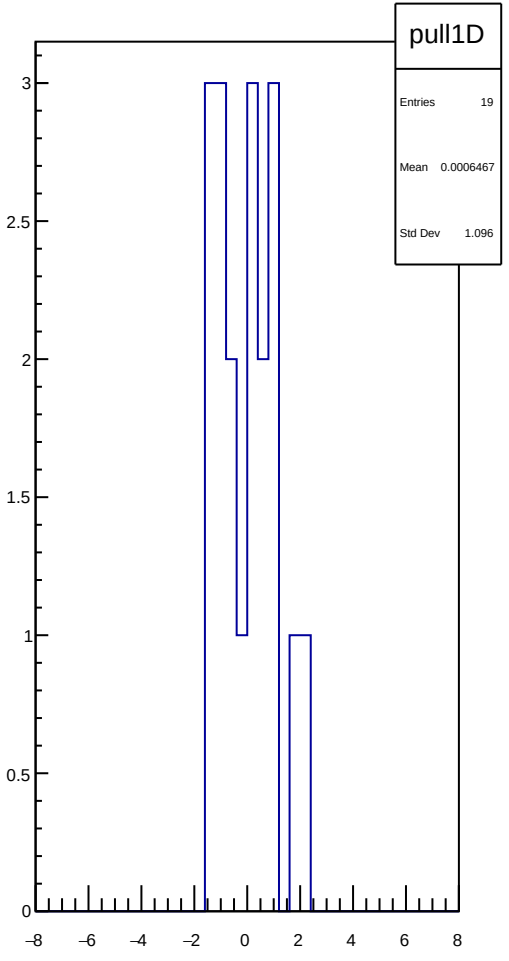

asym_sam_26_48_dd_correction_rms vs run
χ² / ndf 1191 / 18
p0 540.1 ± 0.8794
620
600
580
560
540
520
500
480
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

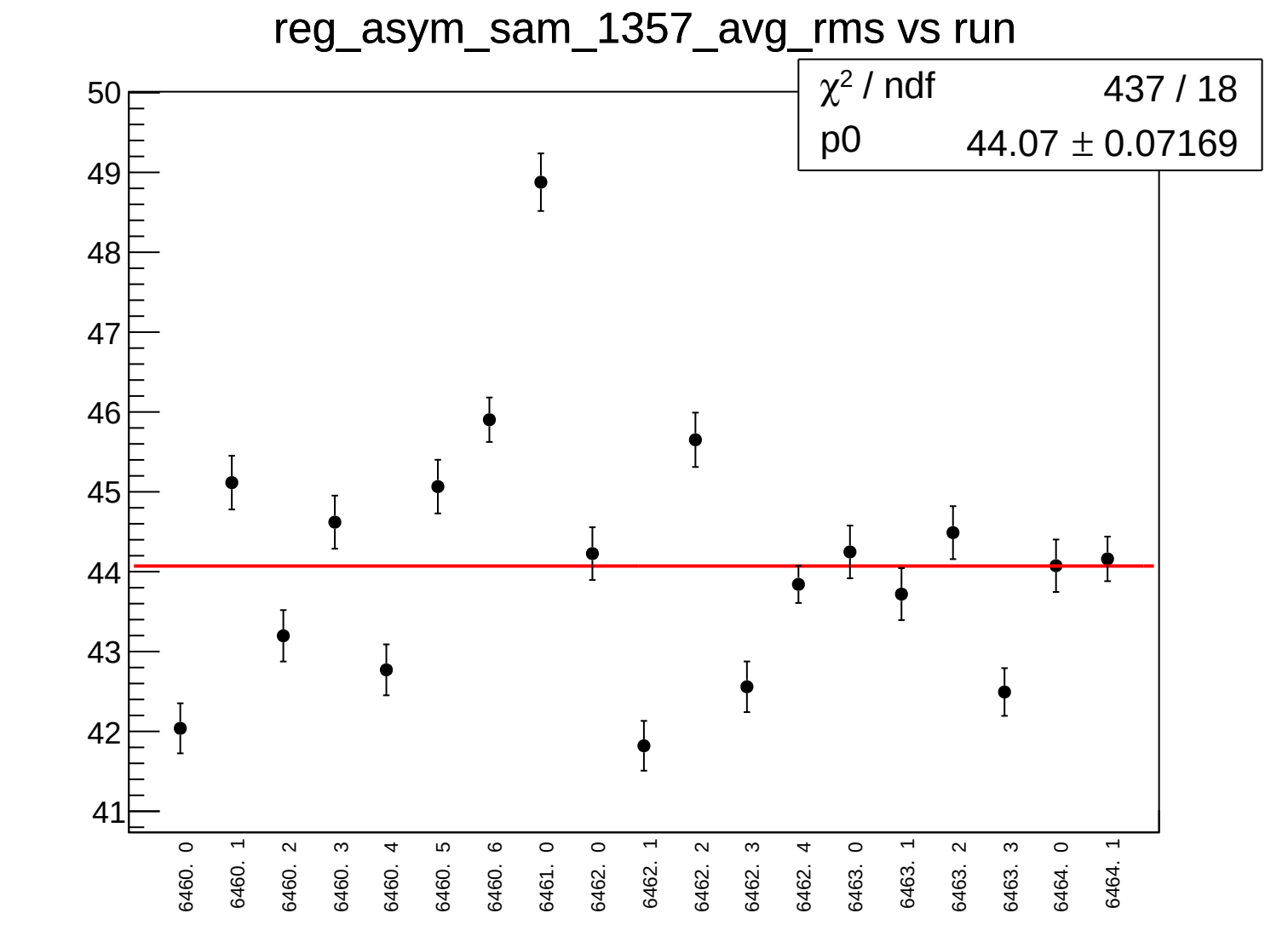

asym_sam_26_48_dd_mean vs run
χ² / ndf 10.99 / 18
p0 −351 ± 1258
15000
10000
5000
0
−5000
−10000
−15000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −676.6
Std Dev 687
1.5
1
0.5
0
−0.5
−1

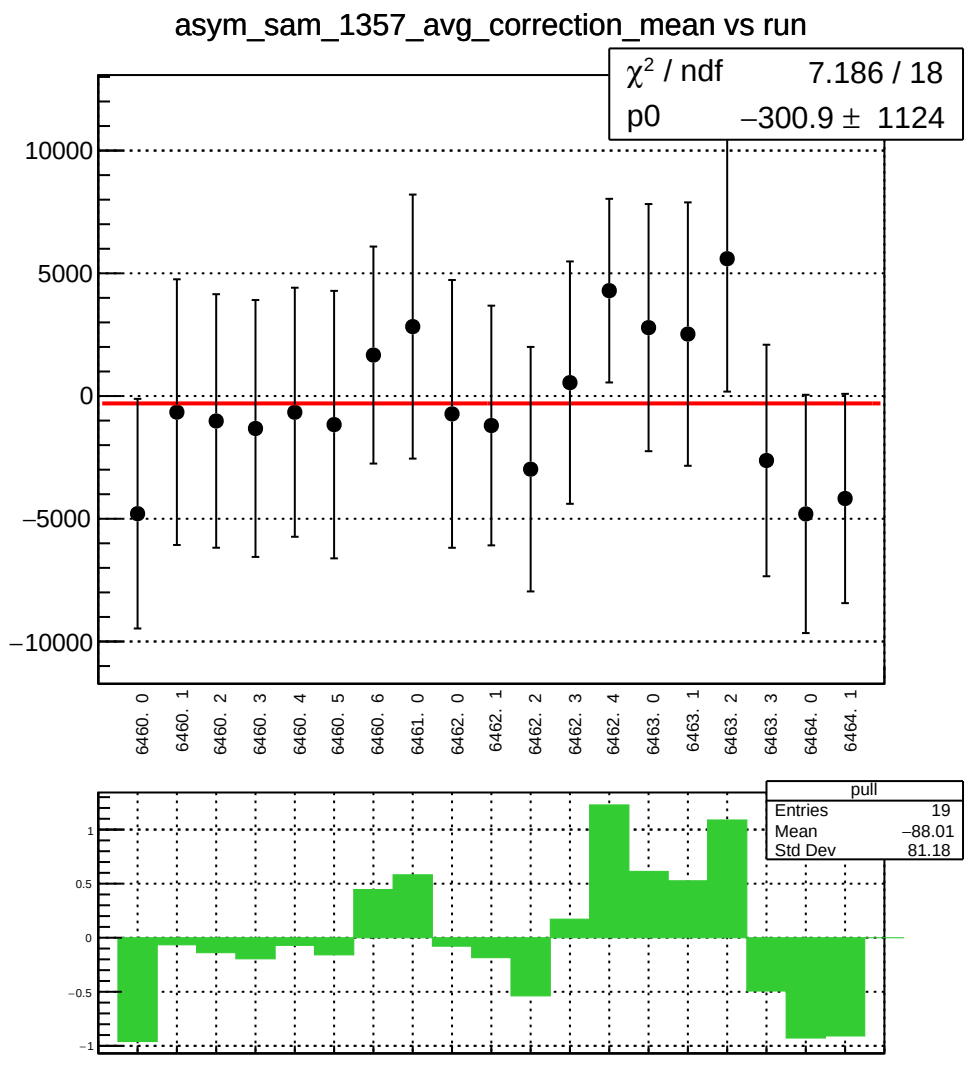

pull1D
Entries 19
Mean −0.0003809
Std Dev 0.7606
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

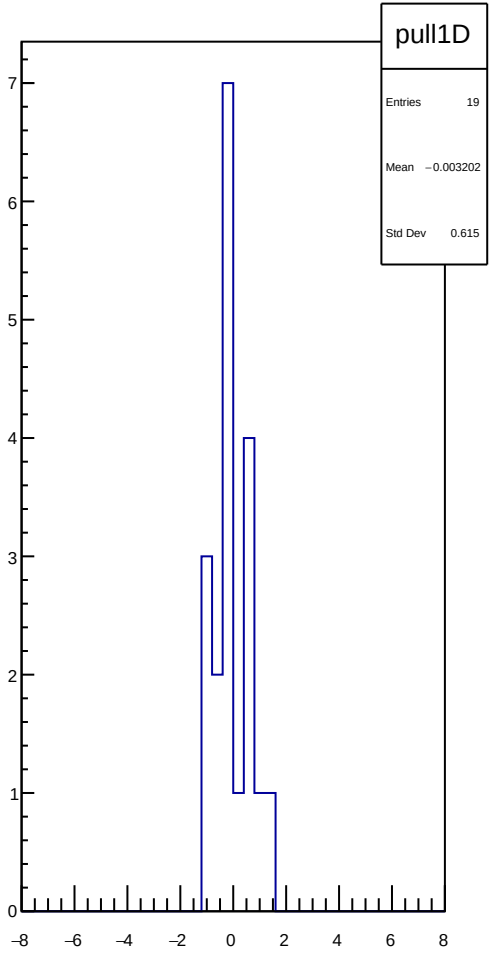

asym_sam_26_48_dd_rms vs run
χ² / ndf 1153 / 18
p0 546.3 ± 0.8895
620
600
580
560
540
520
500
480
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

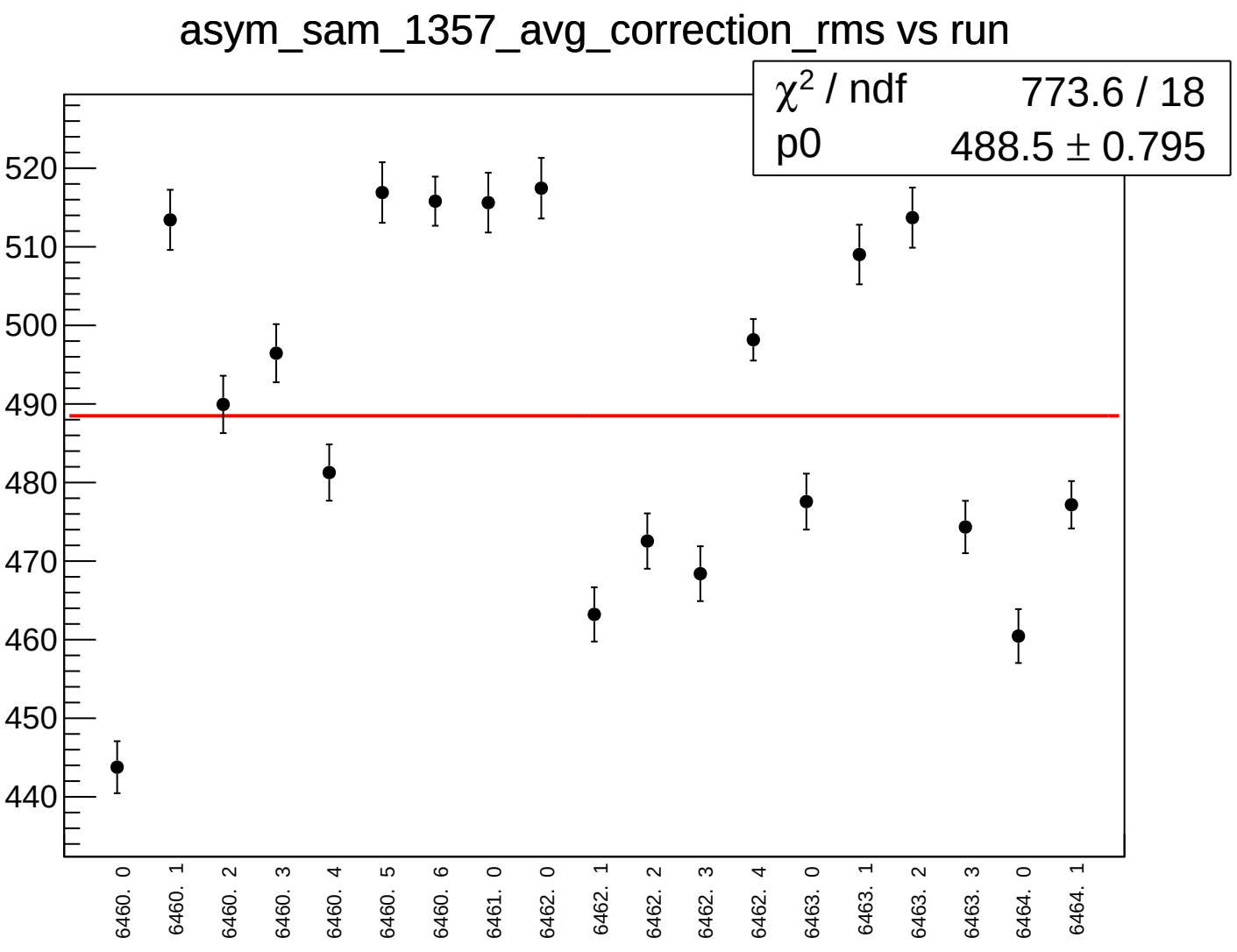

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 22.82 / 18
p0 129.7 ± 101.4
2000
1500
1000
500
0
−500
−1000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −2343
Std Dev 2354
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

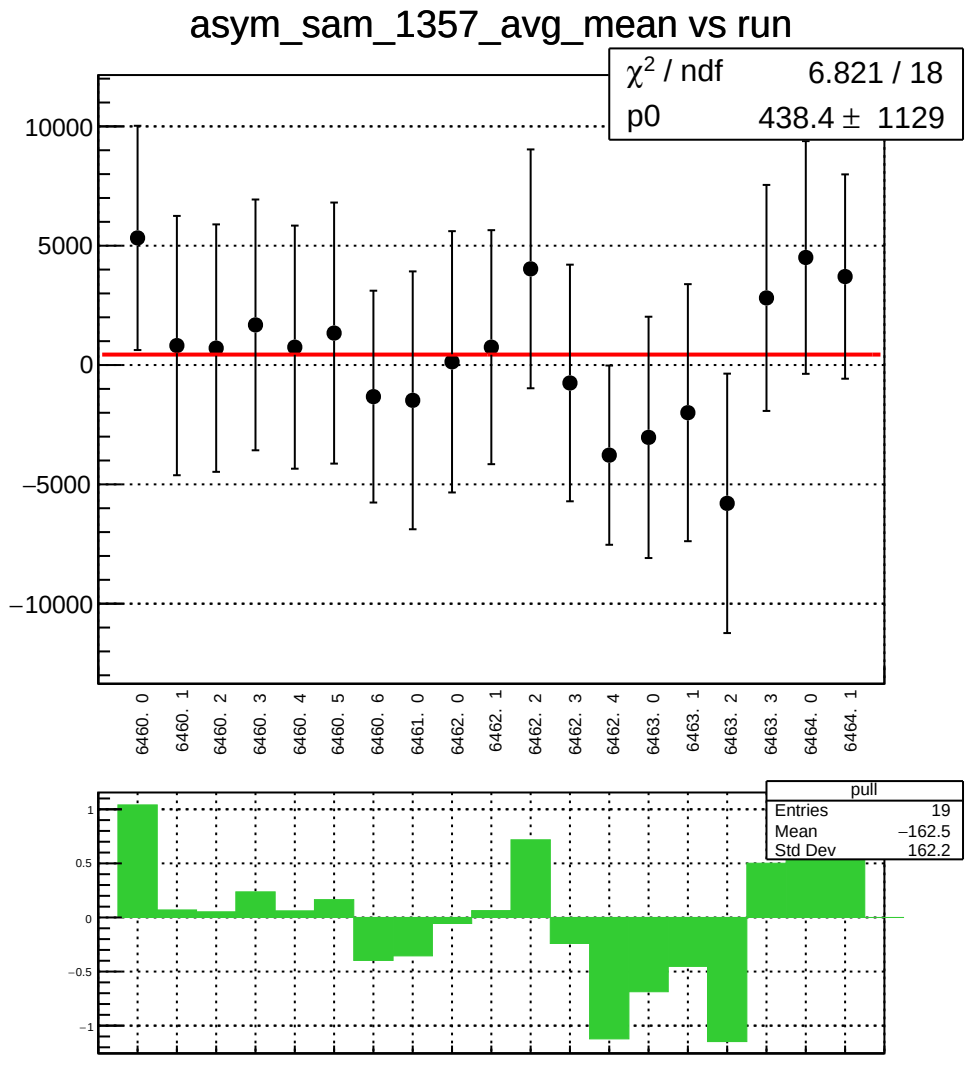

pull1D
Entries 19
Mean 0.0006467
Std Dev 1.096
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

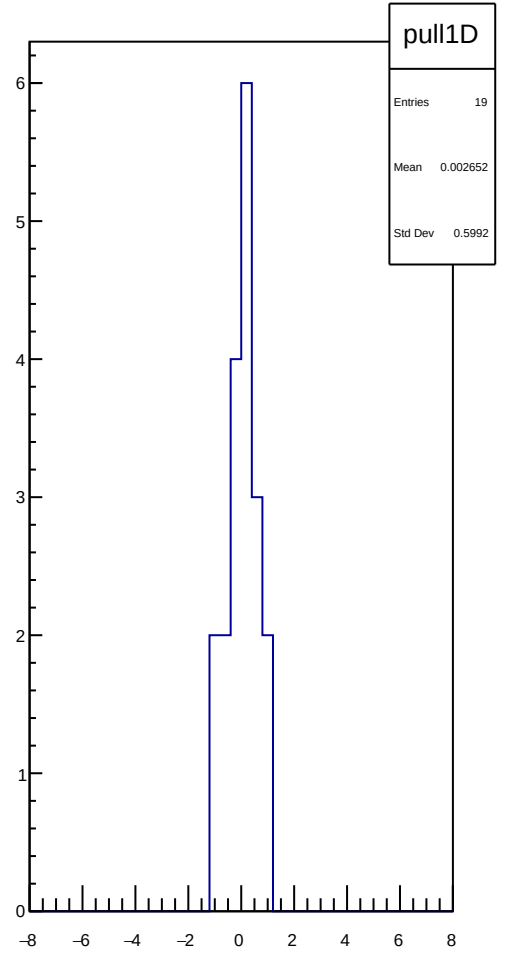

reg_asym_sam_1357_avg_rms vs run
χ² / ndf 437 / 18
p0 44.07 ± 0.07169
50
49
48
47
46
45
44
43
42
41
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

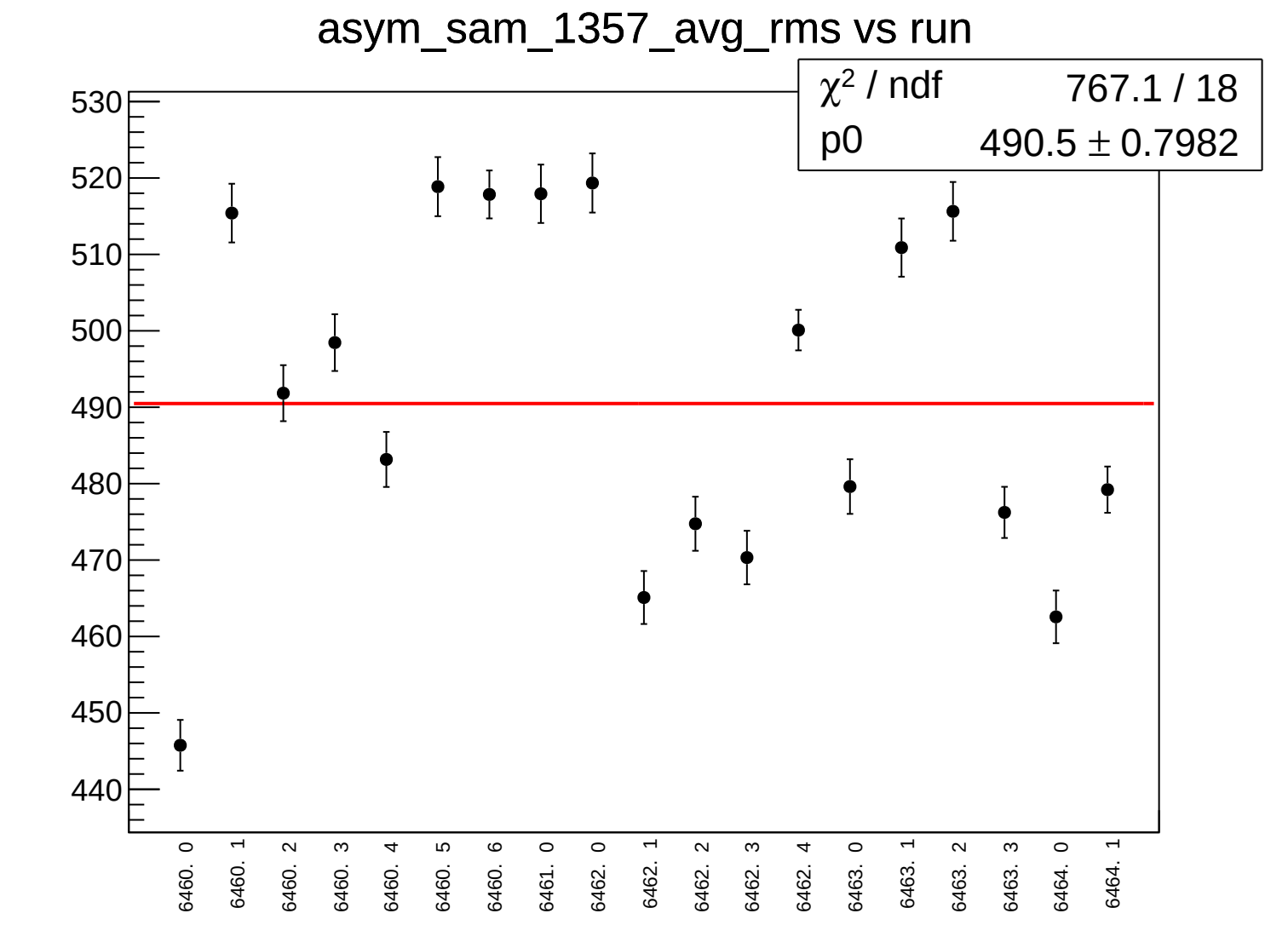

asym_sam_1357_avg_correction_mean vs run
χ² / ndf 7.186 / 18
p0 −300.9 ± 1124
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −88.01
Std Dev 81.18
1
0.5
0
−0.5
−1

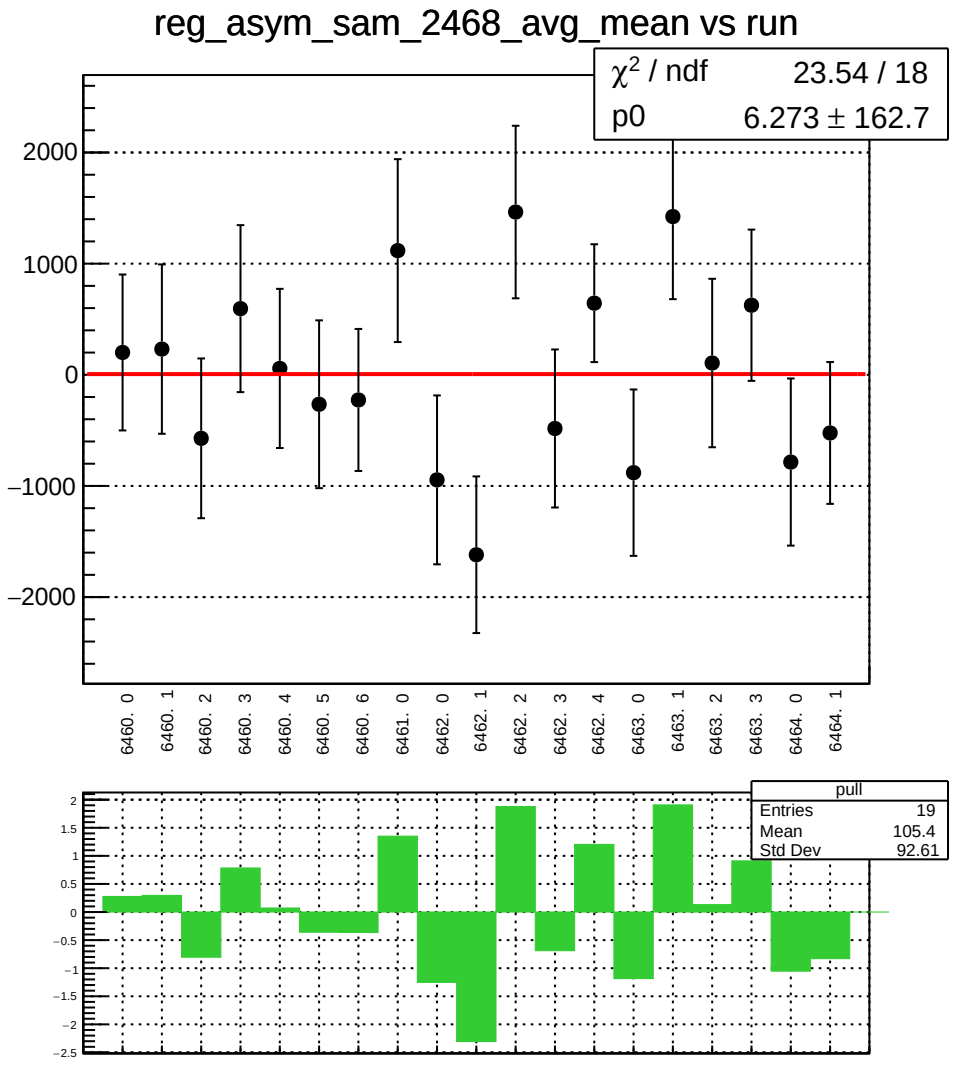

pull1D
Entries 19
Mean −0.003202
Std Dev 0.615
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

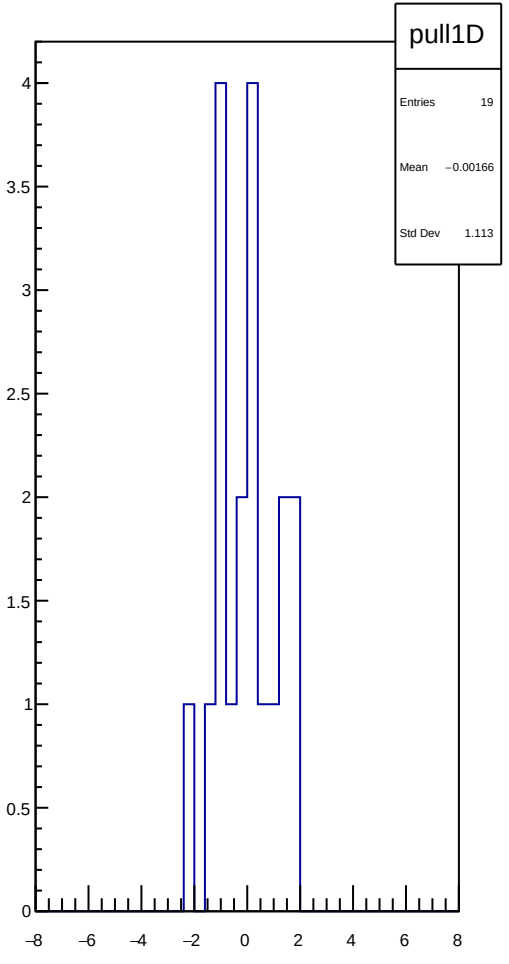

asym_sam_1357_avg_correction_rms vs run
χ² / ndf 773.6 / 18
p0 488.5 ± 0.795
520
510
500
490
480
470
460
450
440
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

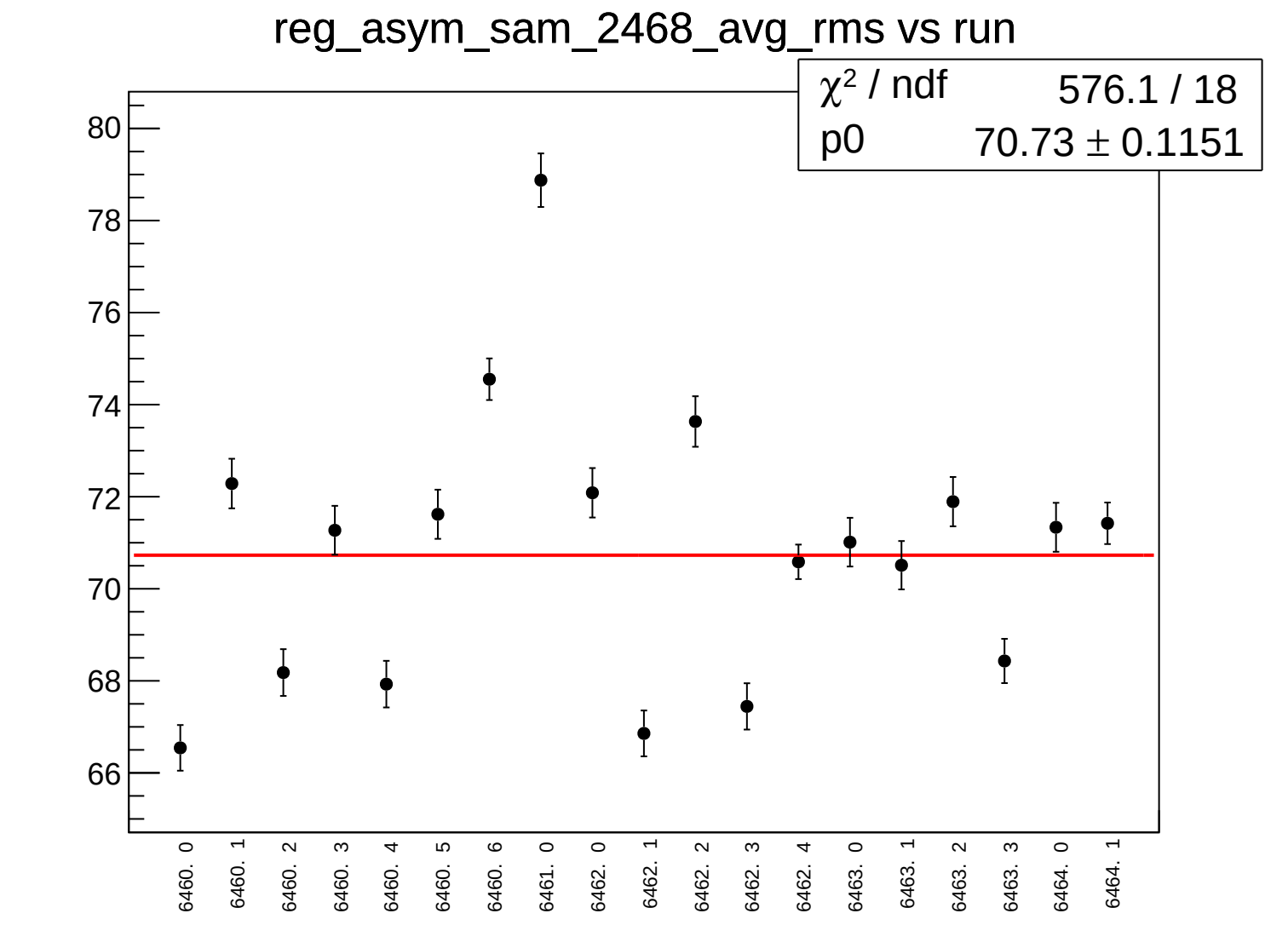

asym_sam_1357_avg_mean vs run
χ² / ndf 6.821 / 18
p0 438.4 ± 1129
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −162.5
Std Dev 162.2
1
0.5
0
−0.5
−1

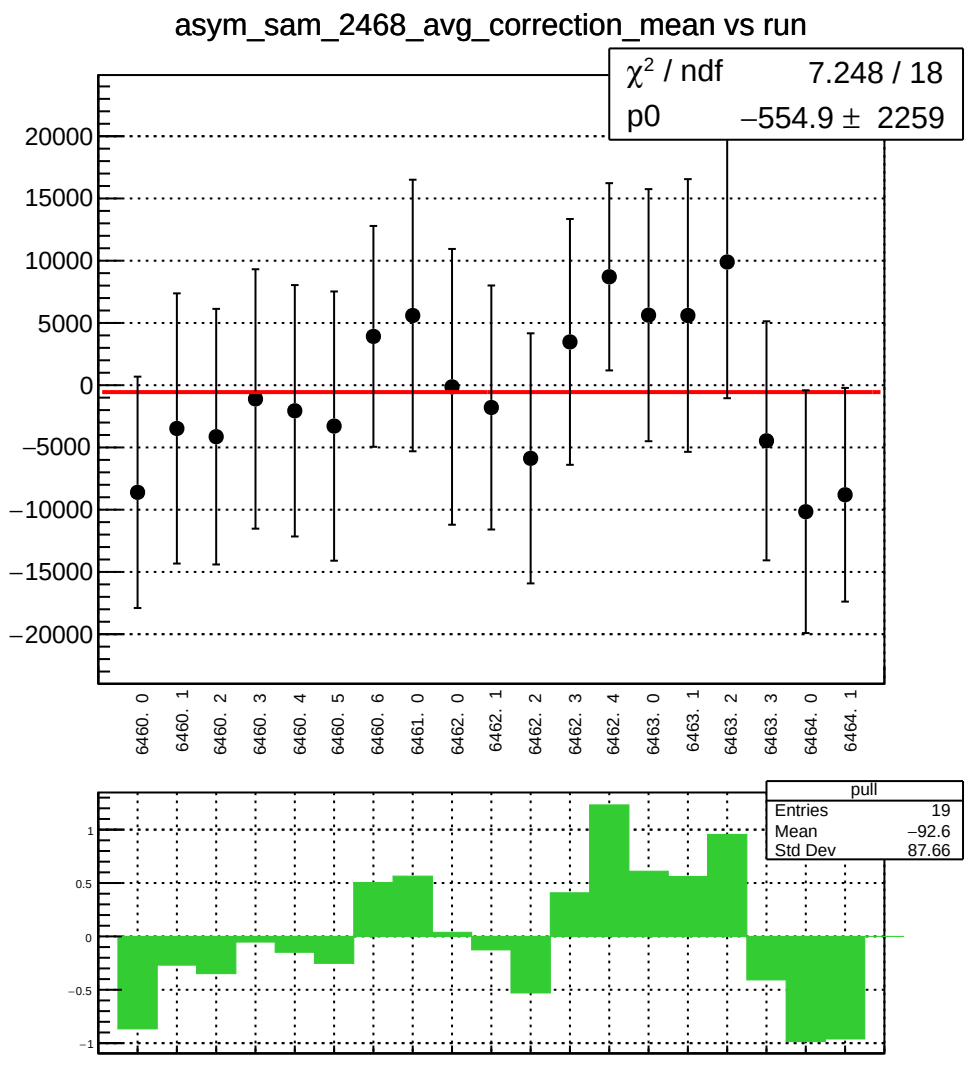

pull1D
Entries 19
Mean 0.002652
Std Dev 0.5992
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

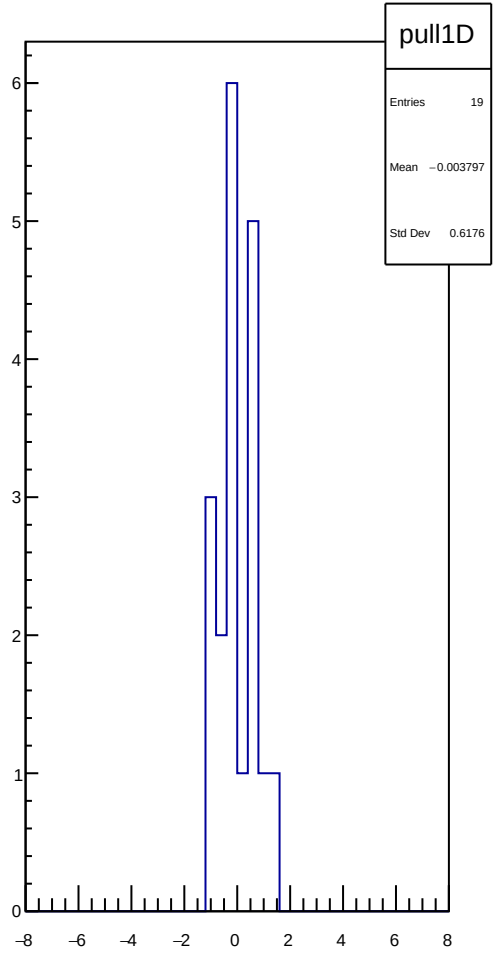

asym_sam_1357_avg_rms vs run
χ² / ndf 767.1 / 18
p0 490.5 ± 0.7982
530
520
510
500
490
480
470
460
450
440
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

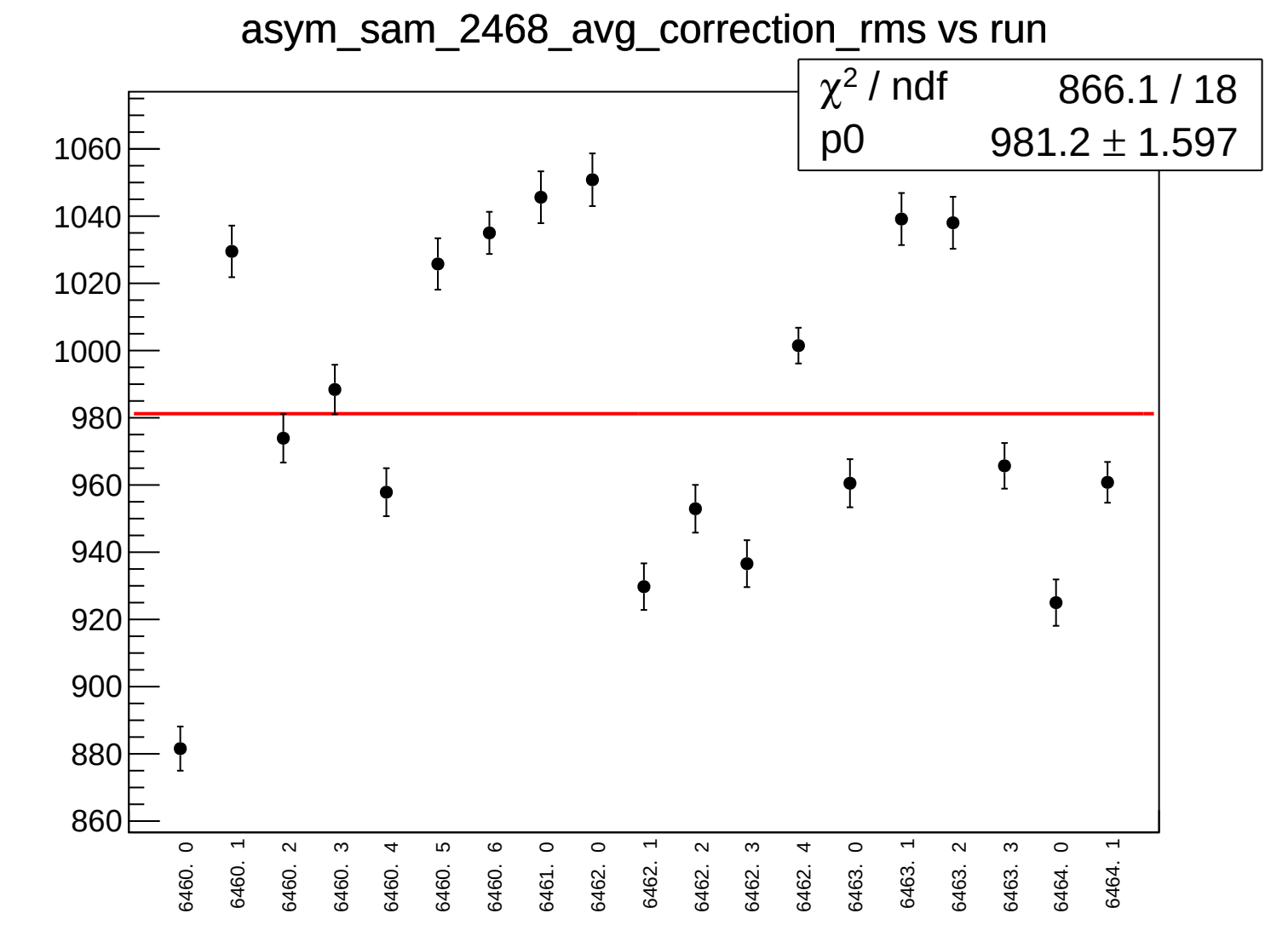

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 23.54 / 18
p0 6.273 ± 162.7
2000
1000
0
−1000
−2000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 105.4
Std Dev 92.61
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

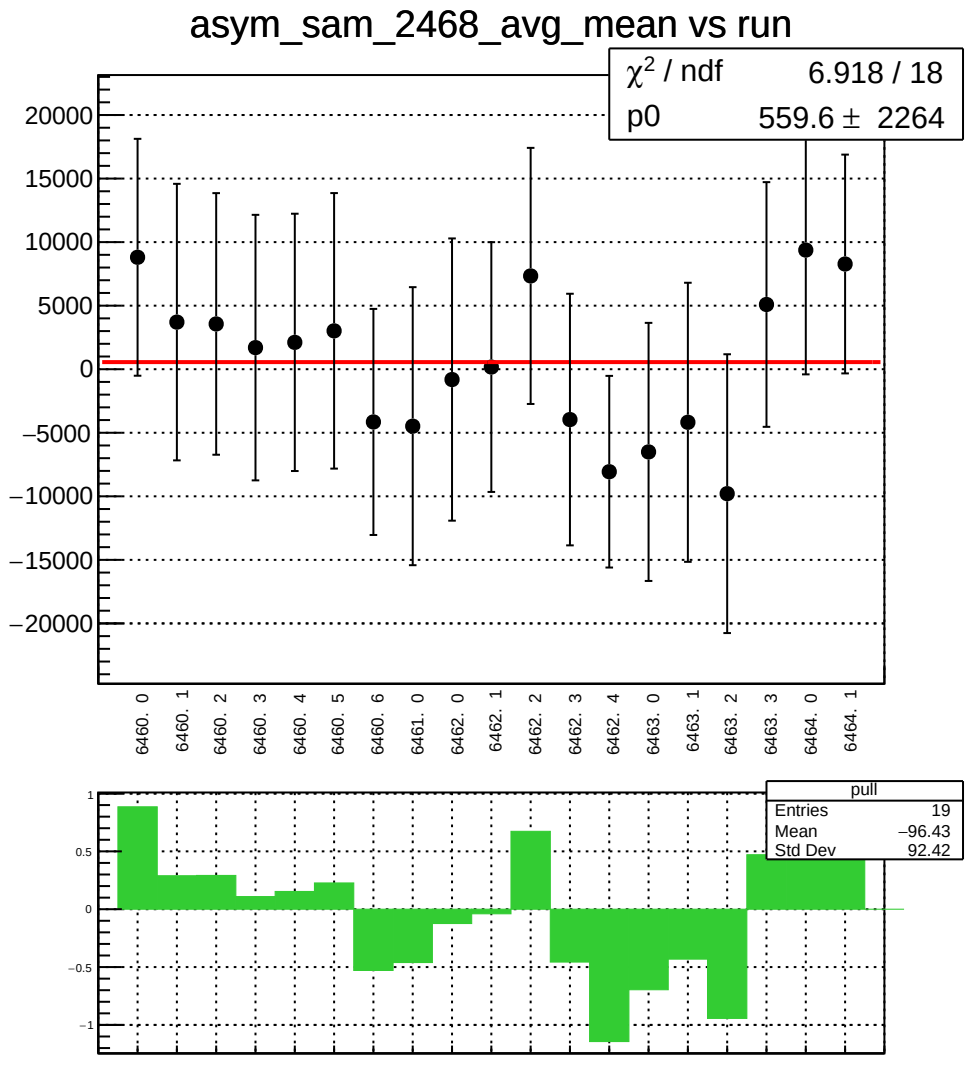

pull1D
Entries 19
Mean −0.00166
Std Dev 1.113
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

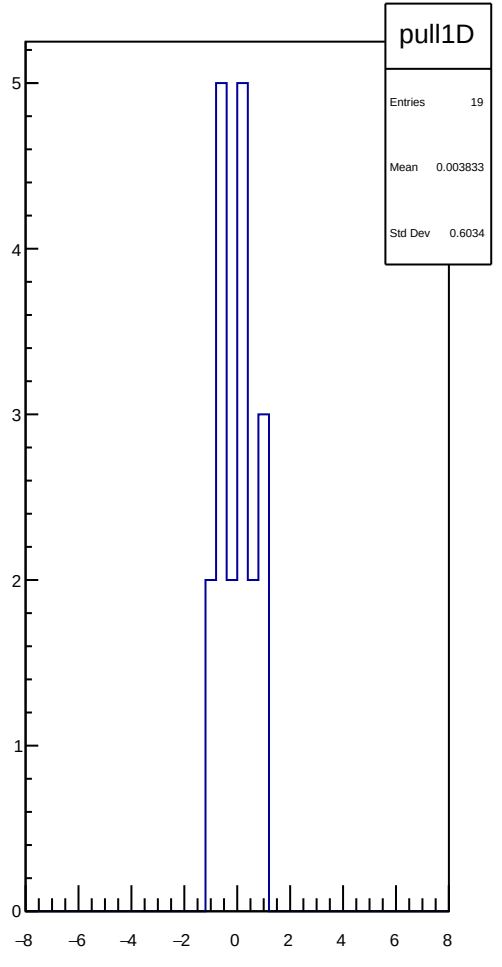

reg_asym_sam_2468_avg_rms vs run
χ² / ndf 576.1 / 18
p0 70.73 ± 0.1151
80
78
76
74
72
70
68
66
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

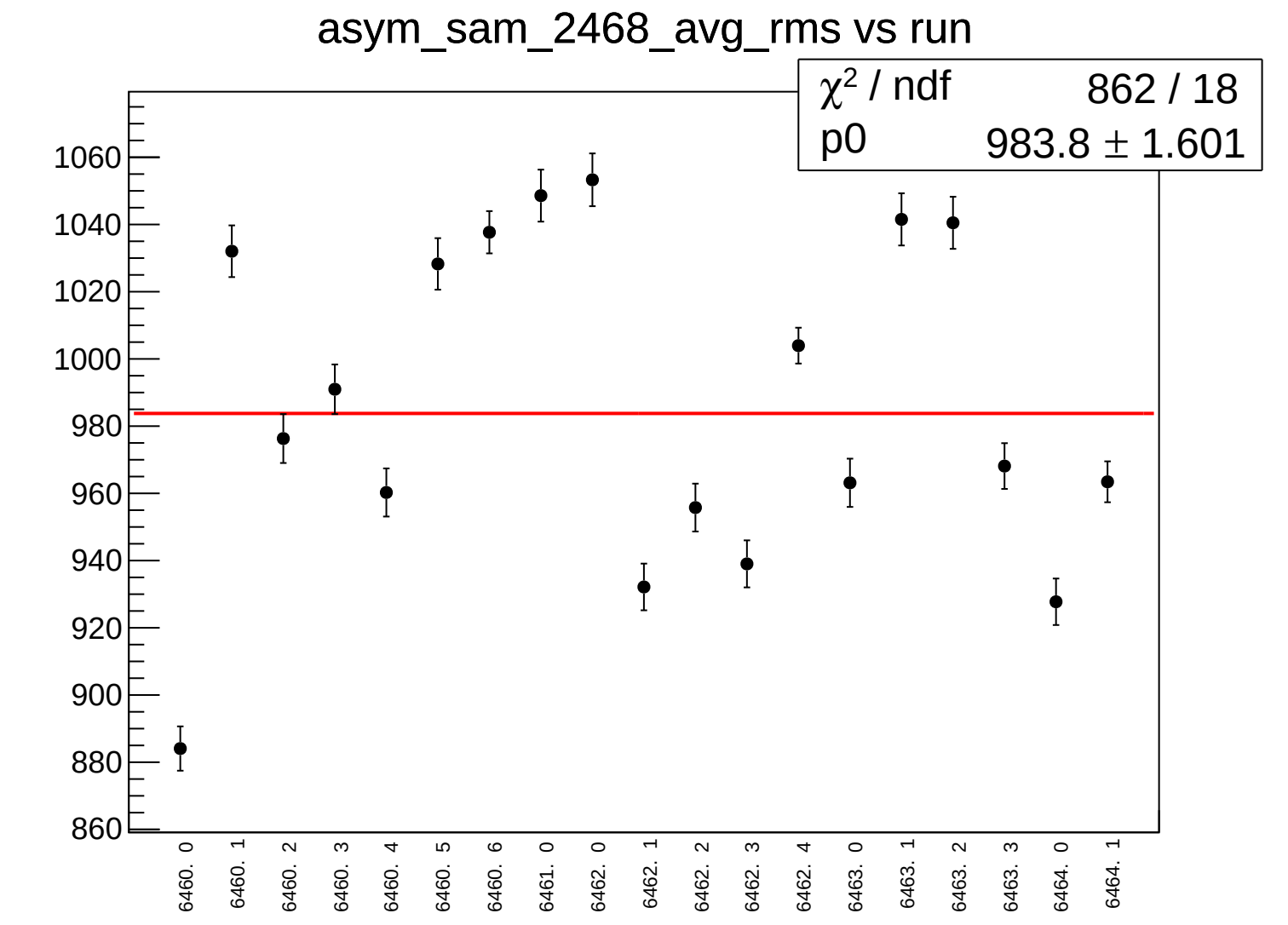

asym_sam_2468_avg_correction_mean vs run
χ² / ndf 7.248 / 18
p0 −554.9 ± 2259
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −92.6
Std Dev 87.66
1
0.5
0
−0.5
−1

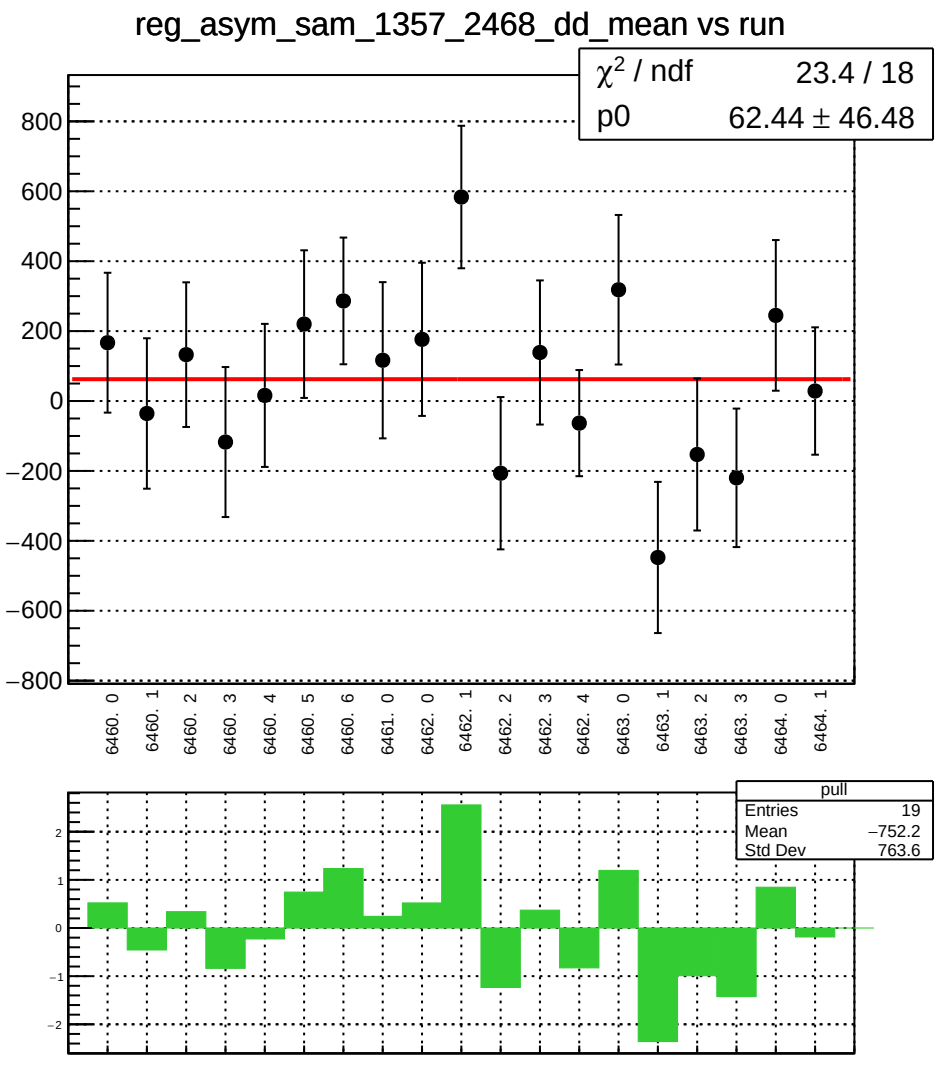

pull1D
Entries 19
Mean −0.003797
Std Dev 0.6176
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

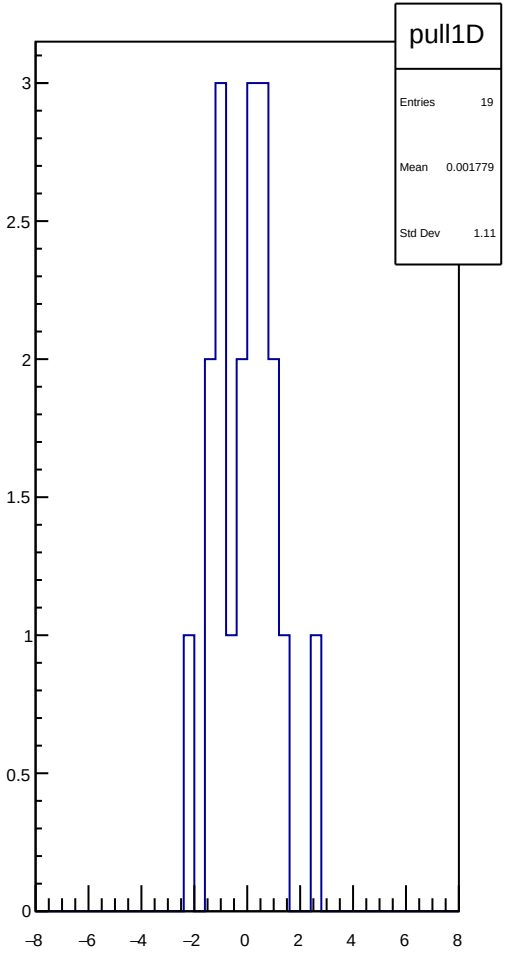

asym_sam_2468_avg_correction_rms vs run
χ² / ndf 866.1 / 18
p0 981.2 ± 1.597
1060
1040
1020
1000
980
960
940
920
900
880
860
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

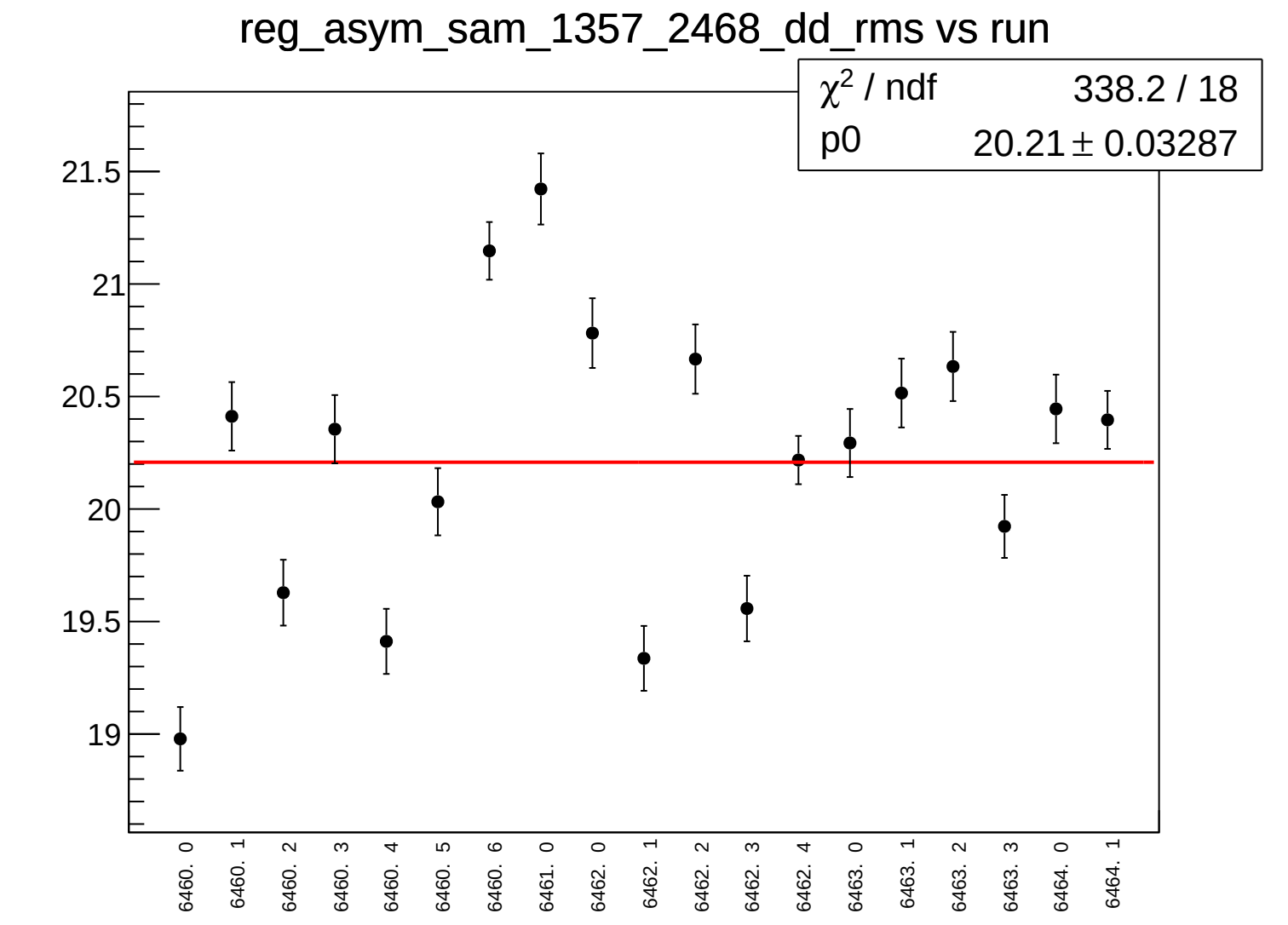

asym_sam_2468_avg_mean vs run
χ² / ndf 6.918 / 18
p0 559.6 ± 2264
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −96.43
Std Dev 92.42
1
0.5
0
−0.5
−1

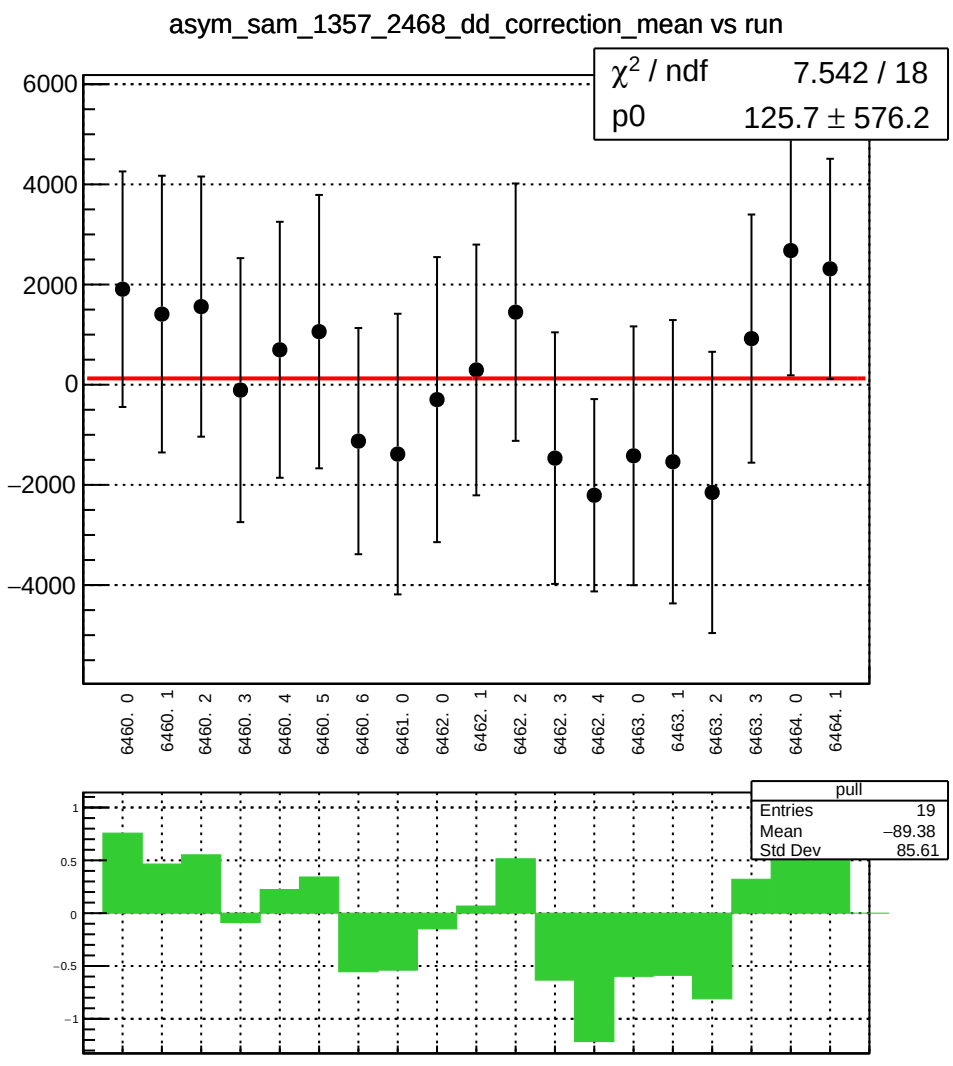

pull1D
Entries 19
Mean 0.003833
Std Dev 0.6034
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

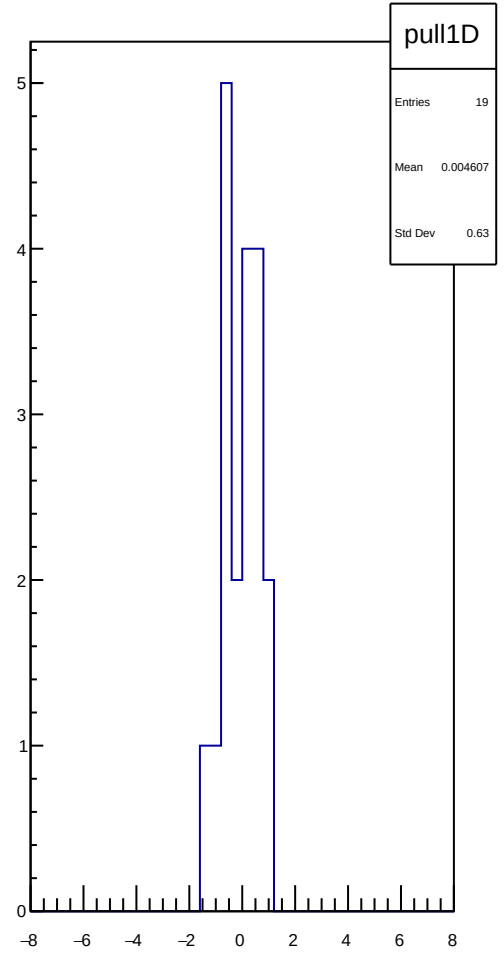

asym_sam_2468_avg_rms vs run
χ² / ndf 862 / 18
p0 983.8 ± 1.601
1060
1040
1020
1000
980
960
940
920
900
880
860
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

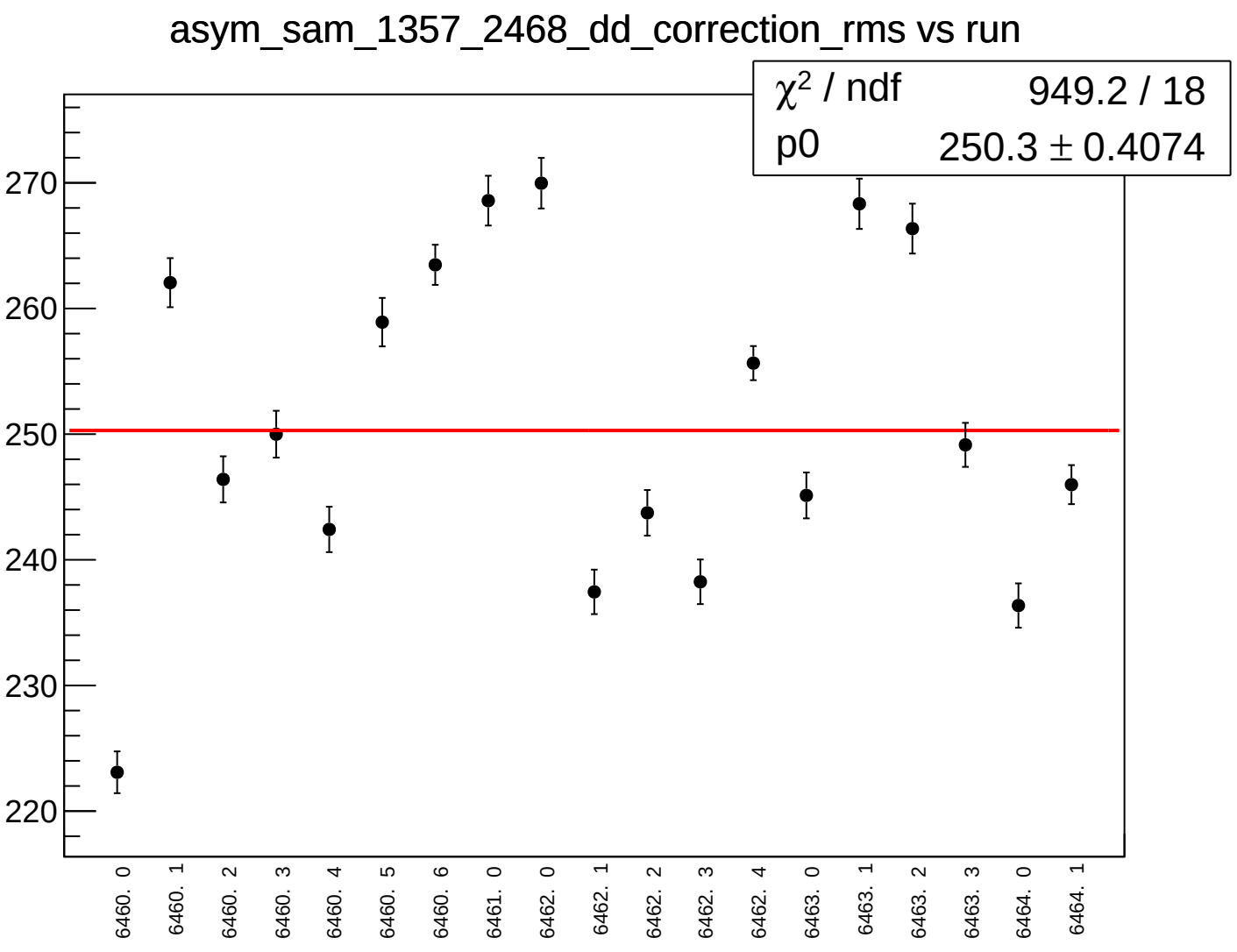

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 23.4 / 18
p0 62.44 ± 46.48
800
600
400
200
0
−200
−400
−600
−800
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −752.2
Std Dev 763.6
2
1
0
−1
−2

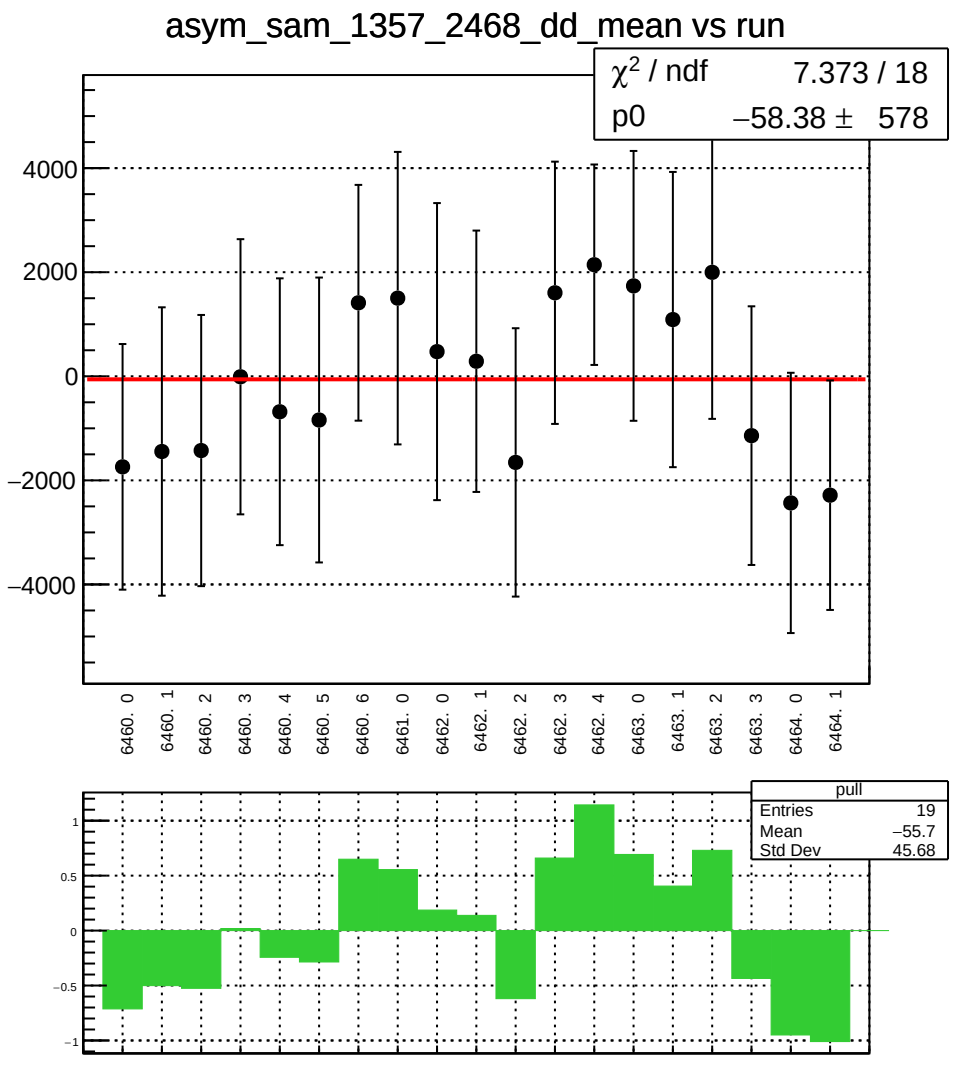

pull1D
Entries 19
Mean 0.001779
Std Dev 1.11
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

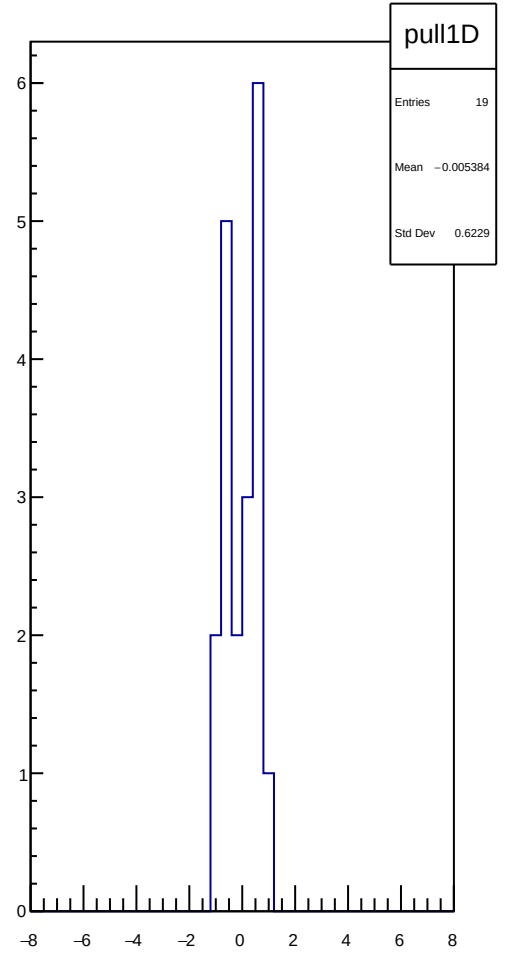

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 338.2 / 18
p0 20.21 ± 0.03287
21.5
21
20.5
20
19.5
19
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

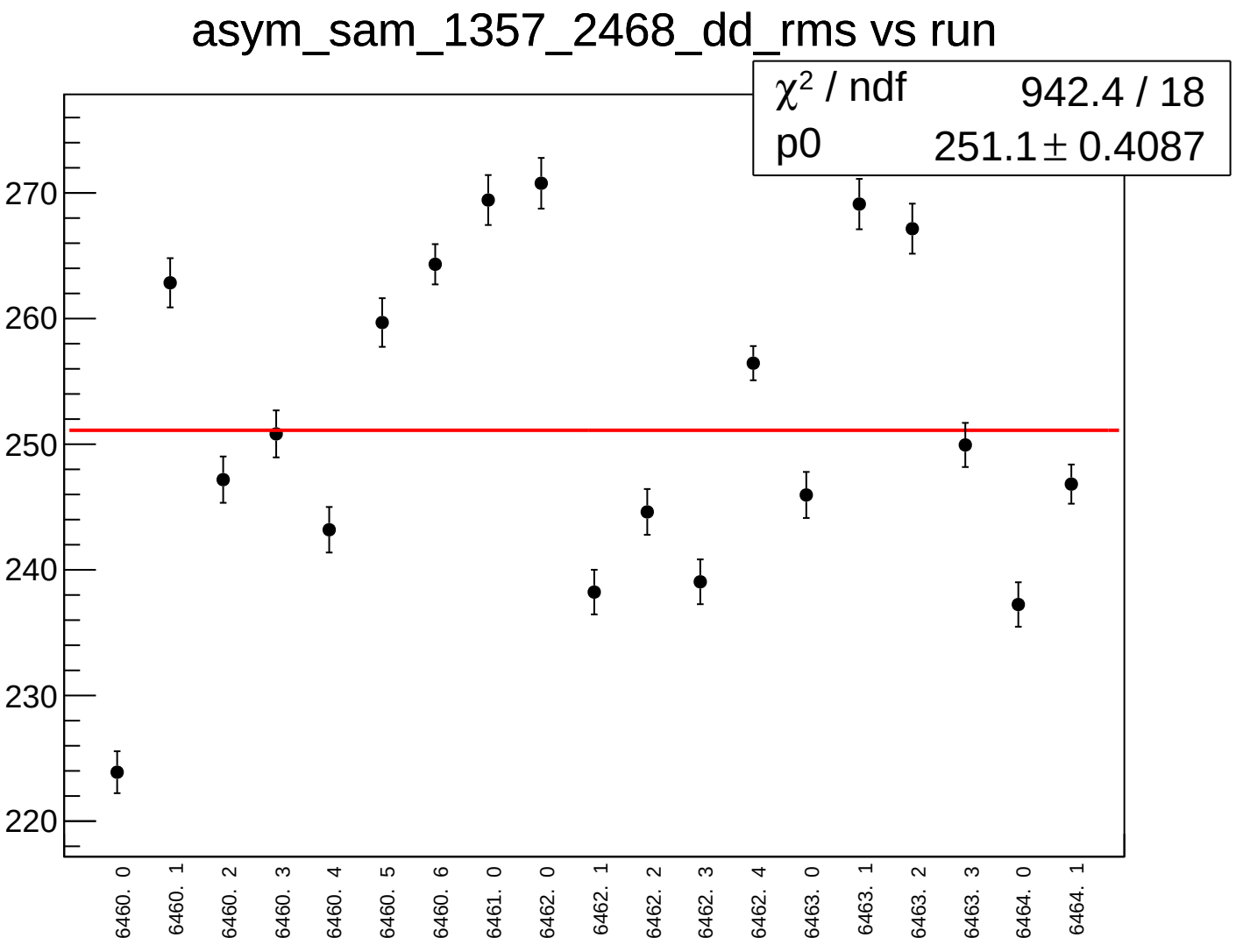

asym_sam_1357_2468_dd_correction_mean vs run
χ² / ndf 7.542 / 18
p0 125.7 ± 576.2
6000
4000
2000
0
−2000
−4000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −89.38
Std Dev 85.61
1
0.5
0
−0.5
−1

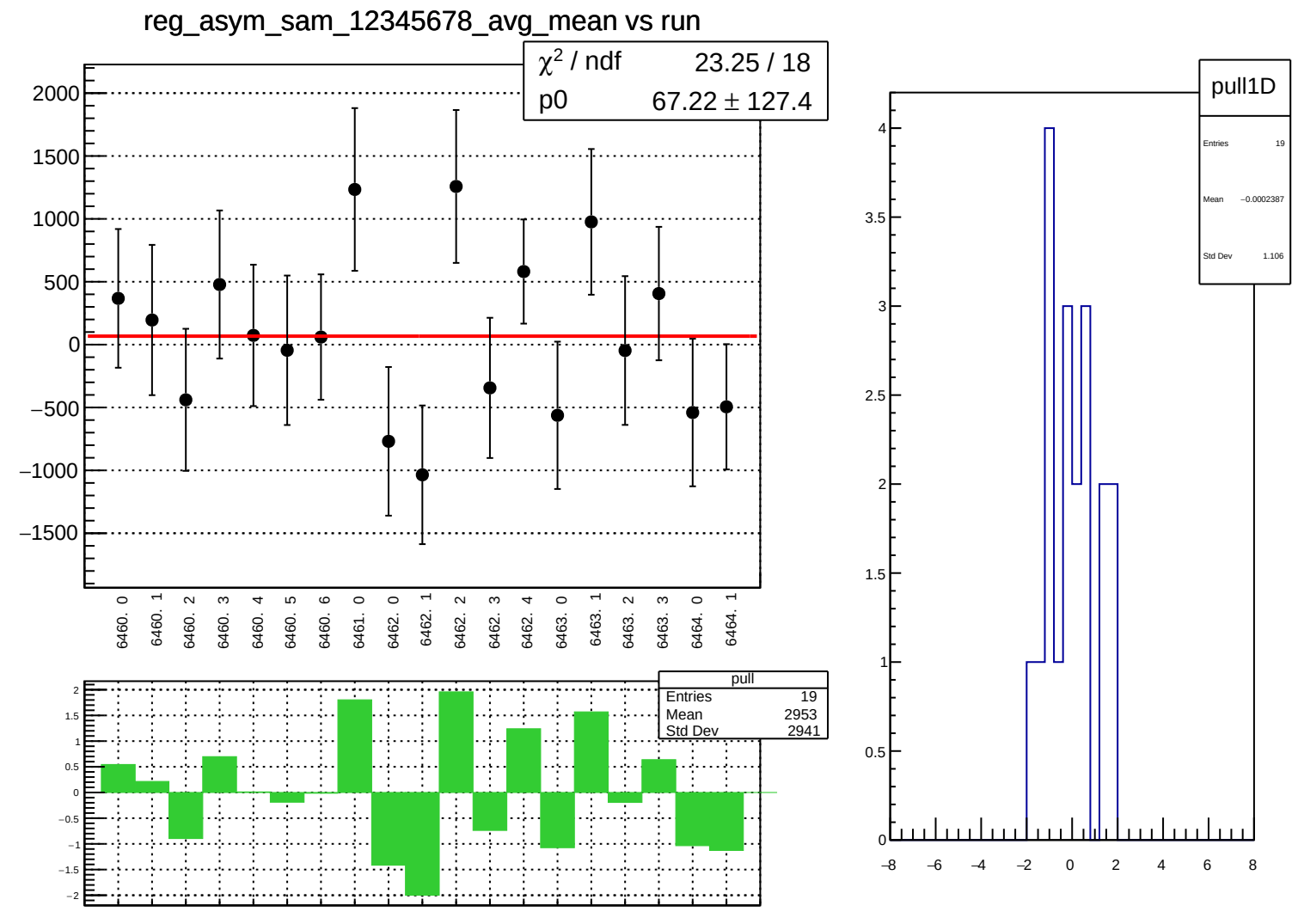

pull1D
Entries 19
Mean 0.004607
Std Dev 0.63
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

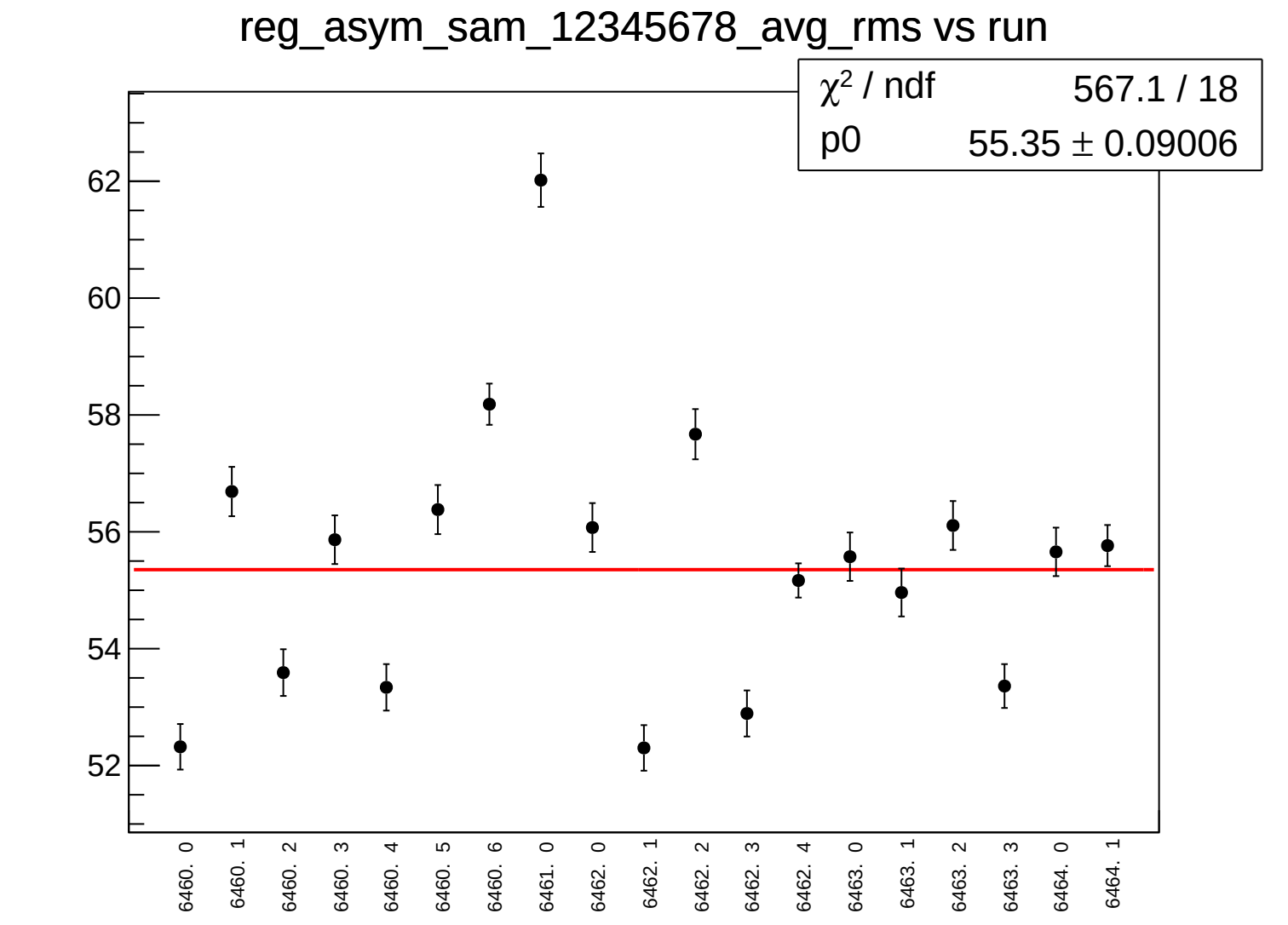

asym_sam_1357_2468_dd_correction_rms vs run
χ² / ndf 949.2 / 18
p0 250.3 ± 0.4074
270
260
250
240
230
220
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

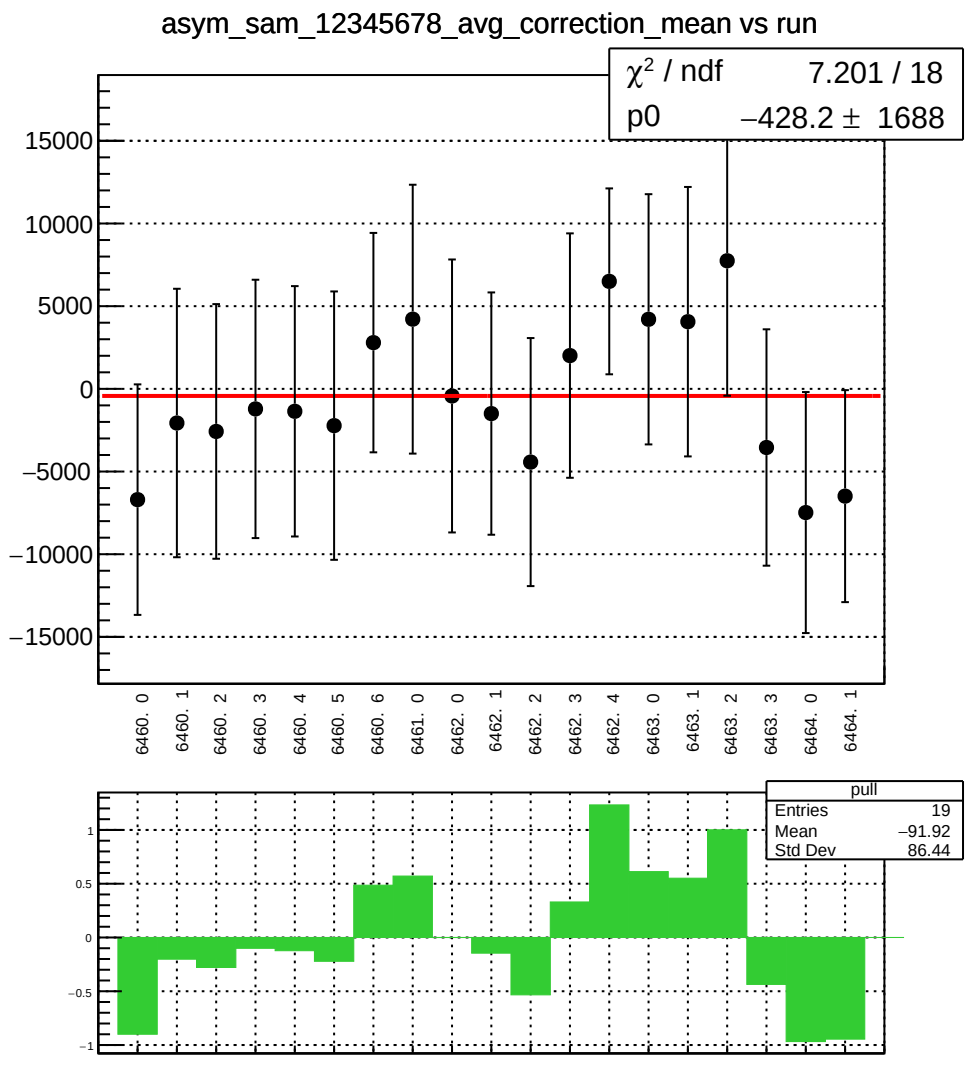

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 7.373 / 18
p0 −58.38 ± 578
4000
2000
0
−2000
−4000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −55.7
Std Dev 45.68
1
0.5
0
−0.5
−1

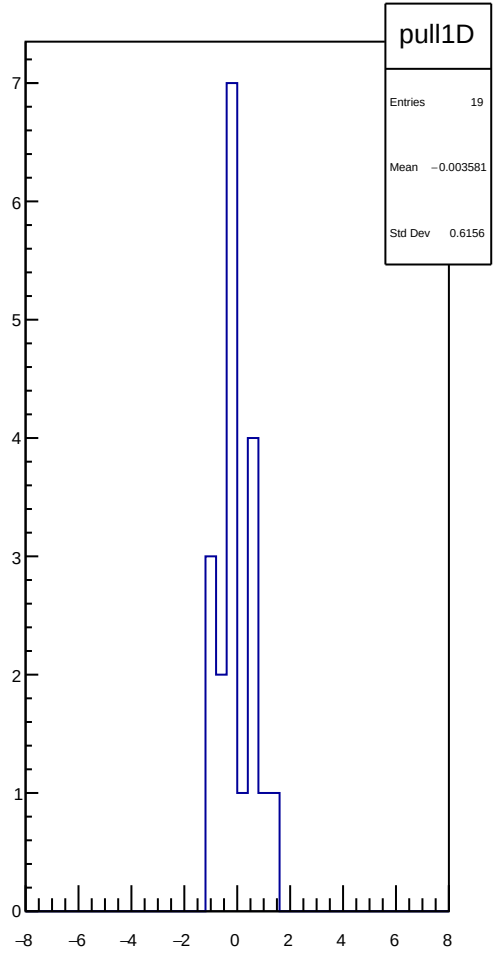

pull1D
Entries 19
Mean −0.005384
Std Dev 0.6229
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

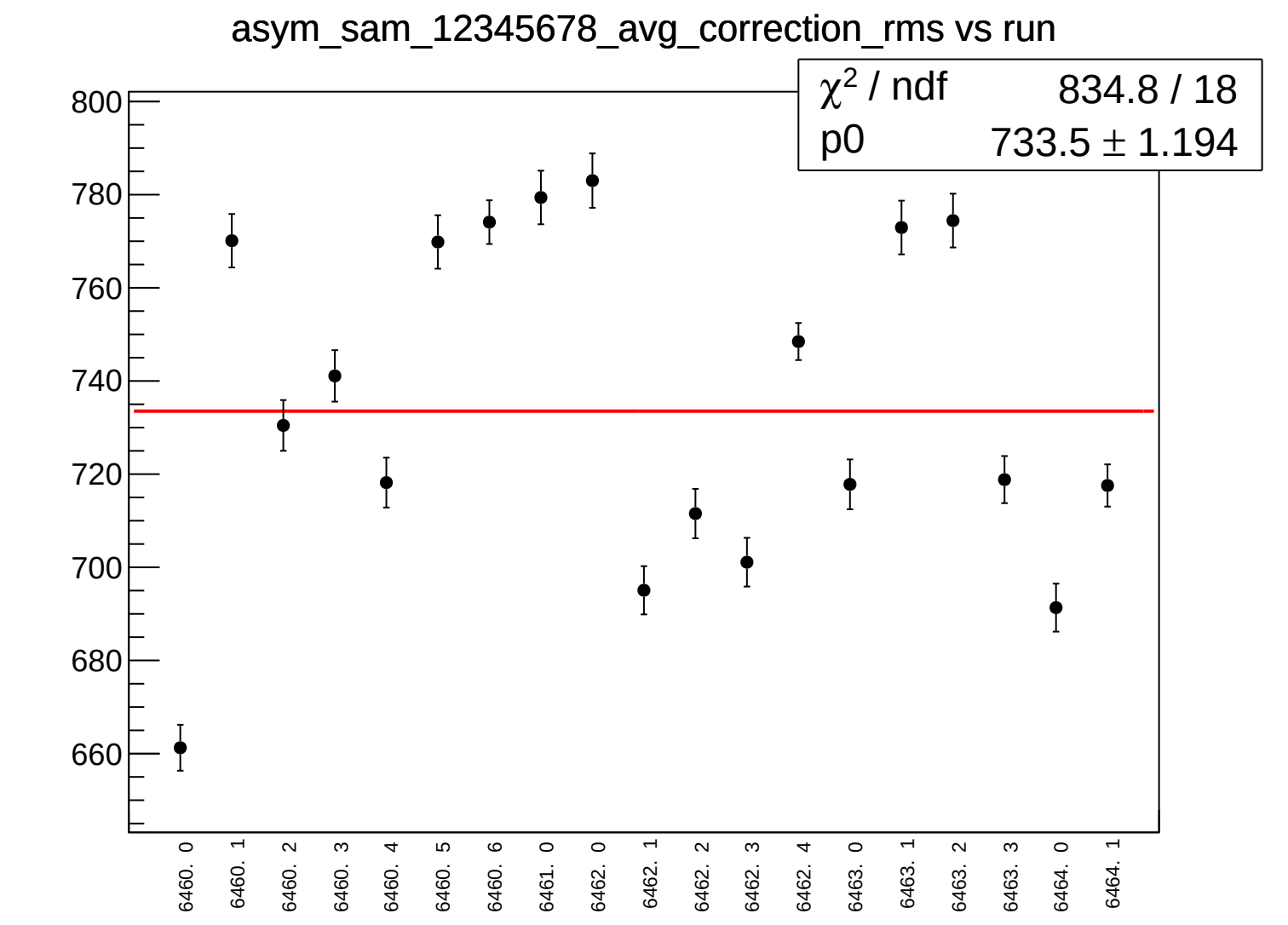

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 942.4 / 18
p0 251.1 ± 0.4087
270
260
250
240
230
220
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

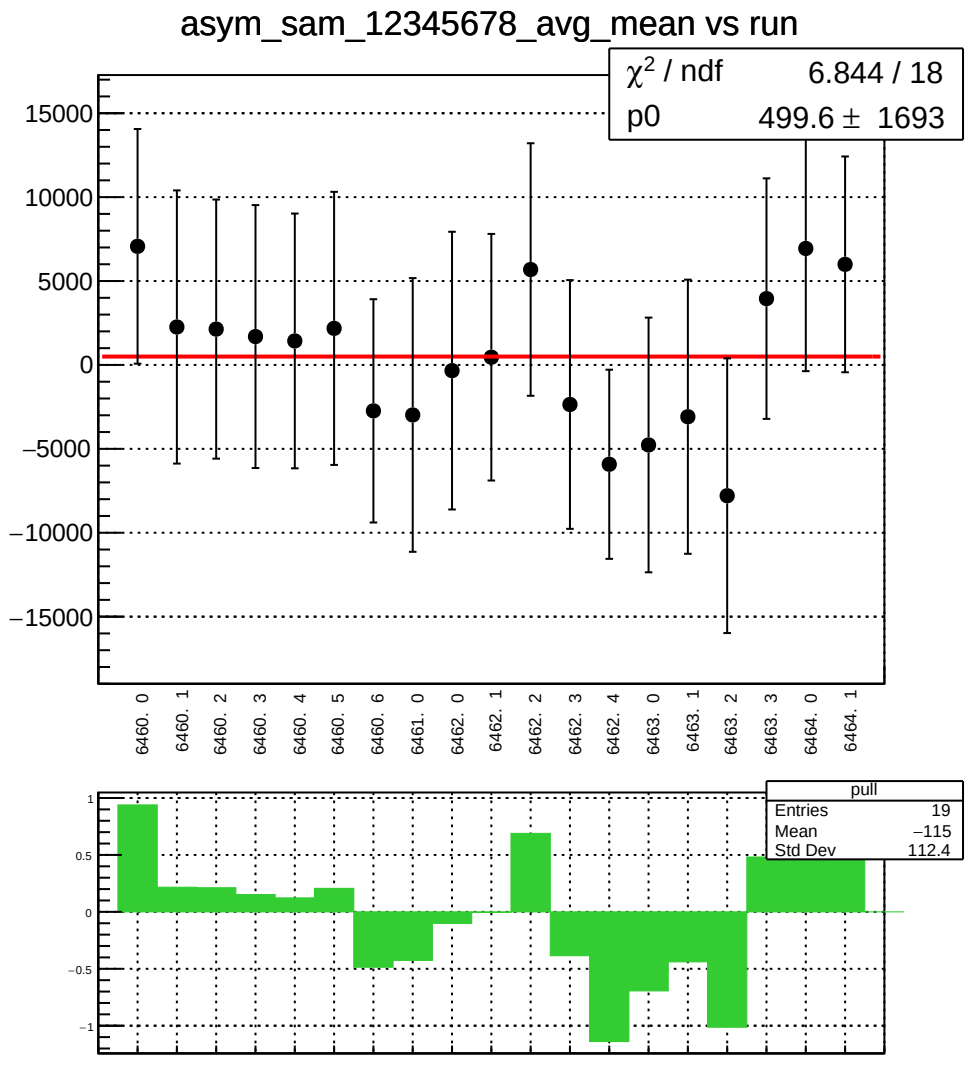

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 23.25 / 18
p0 67.22 ± 127.4
2000
1500
1000
500
0
−500
−1000
−1500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 2953
Std Dev 2941
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 19
Mean −0.0002387
Std Dev 1.106
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

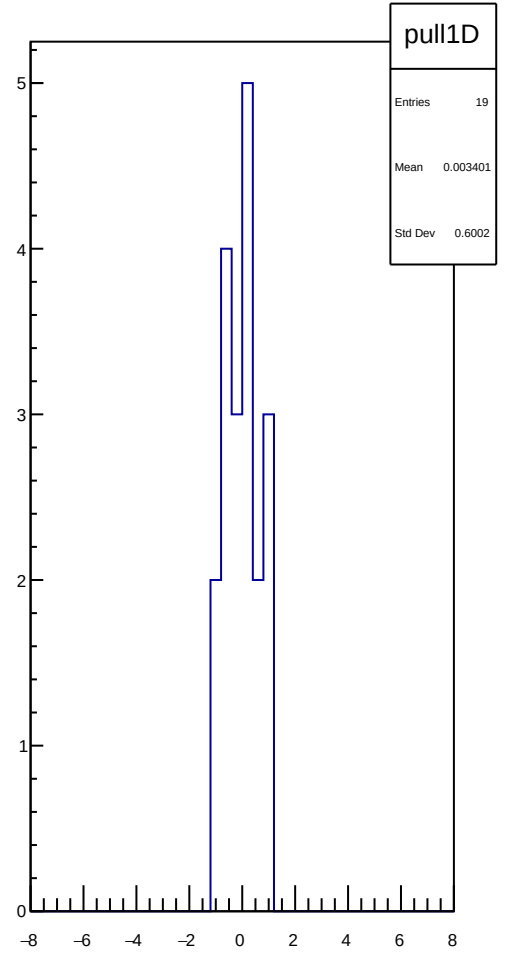

reg_asym_sam_12345678_avg_rms vs run
χ² / ndf 567.1 / 18
p0 55.35 ± 0.09006
62
60
58
56
54
52
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

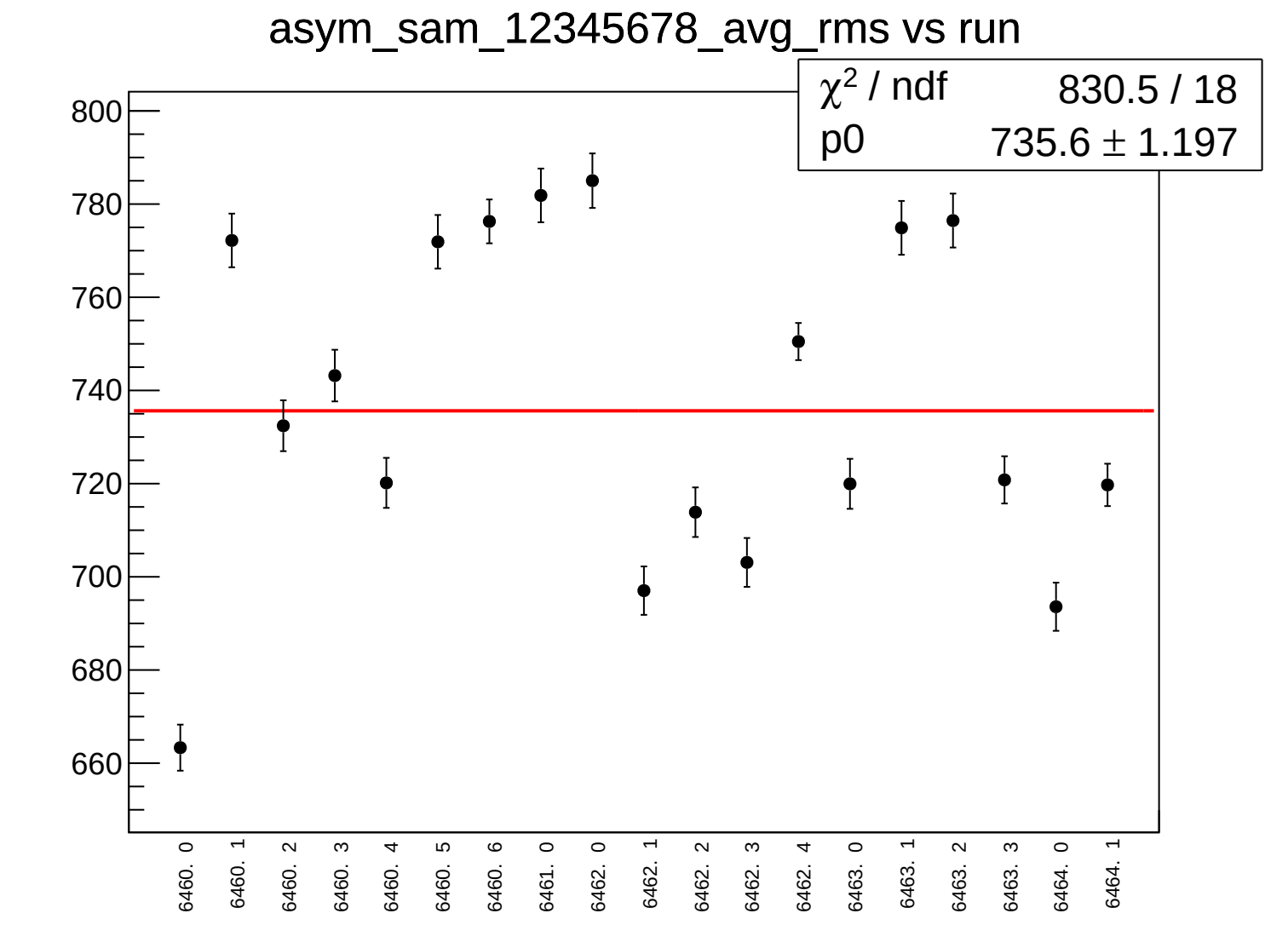

asym_sam_12345678_avg_correction_mean vs run
χ² / ndf 7.201 / 18
p0 −428.2 ± 1688
15000
10000
5000
0
−5000
−10000
−15000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −91.92
Std Dev 86.44
1
0.5
0
−0.5
−1

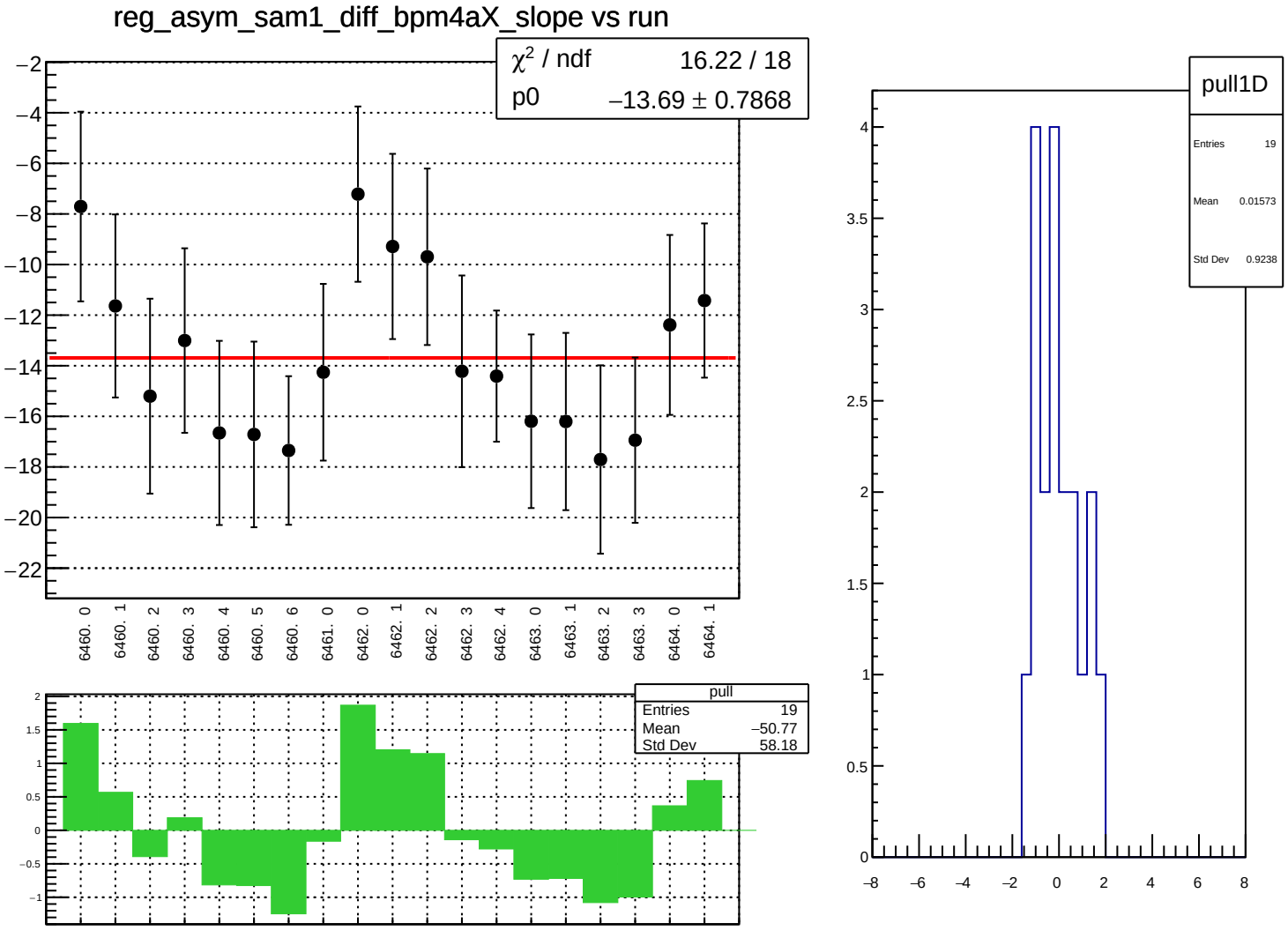

pull1D
Entries 19
Mean −0.003581
Std Dev 0.6156
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

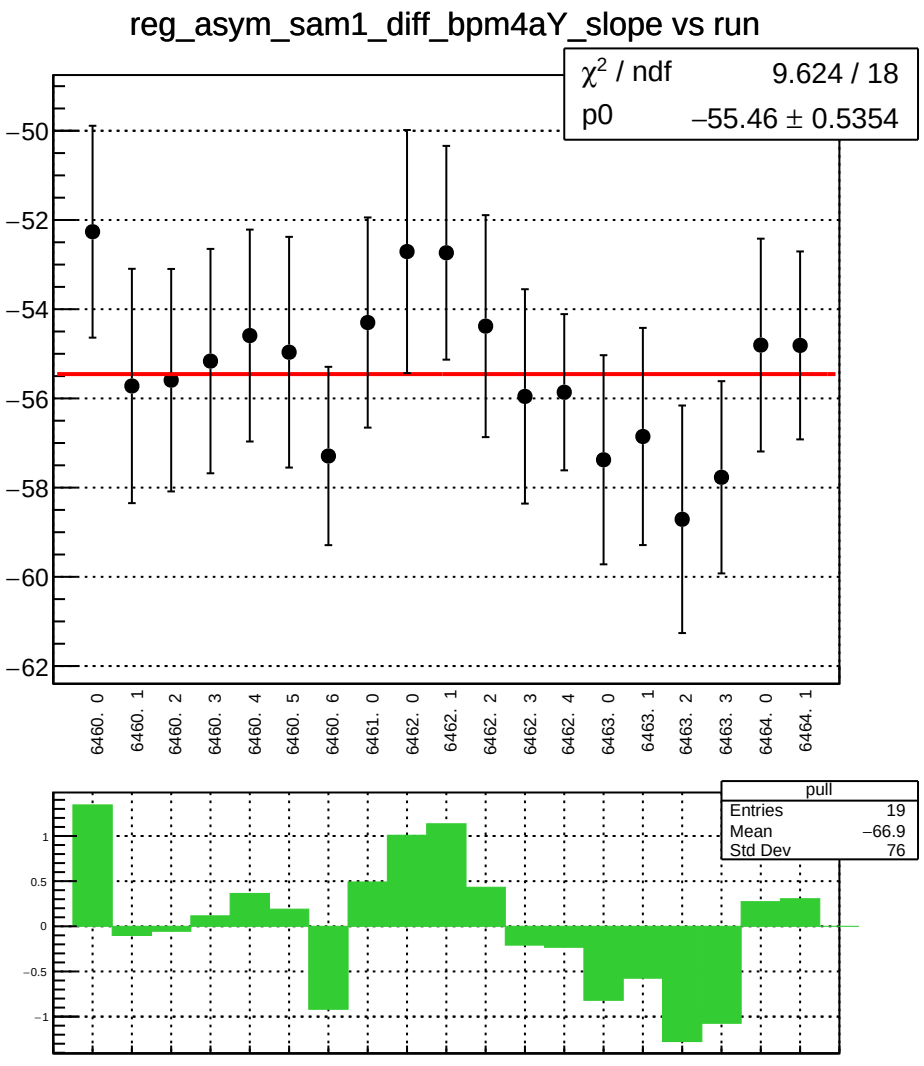

asym_sam_12345678_avg_correction_rms vs run
χ² / ndf 834.8 / 18
p0 733.5 ± 1.194
800
780
760
740
720
700
680
660
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

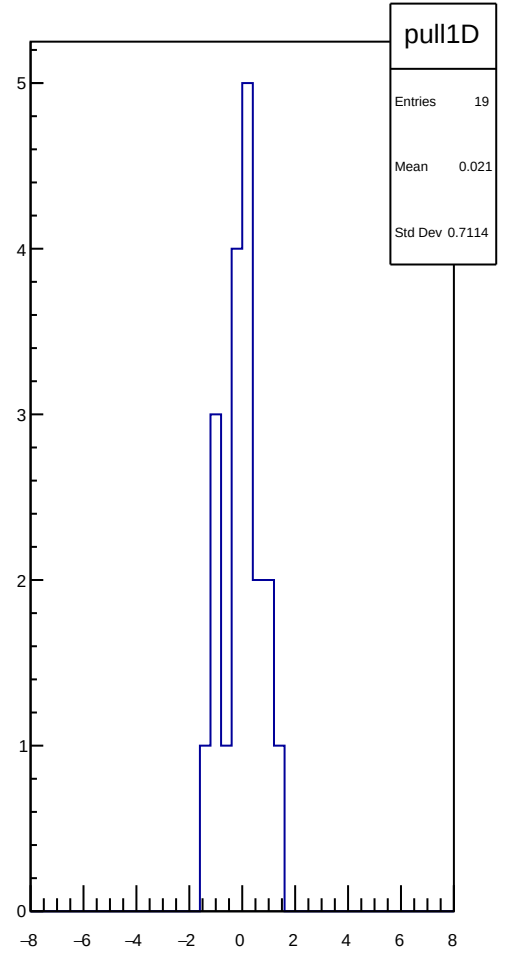

asym_sam_12345678_avg_mean vs run
χ² / ndf 6.844 / 18
p0 499.6 ± 1693
15000
10000
5000
0
−5000
−10000
−15000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −115
Std Dev 112.4
1
0.5
0
−0.5
−1

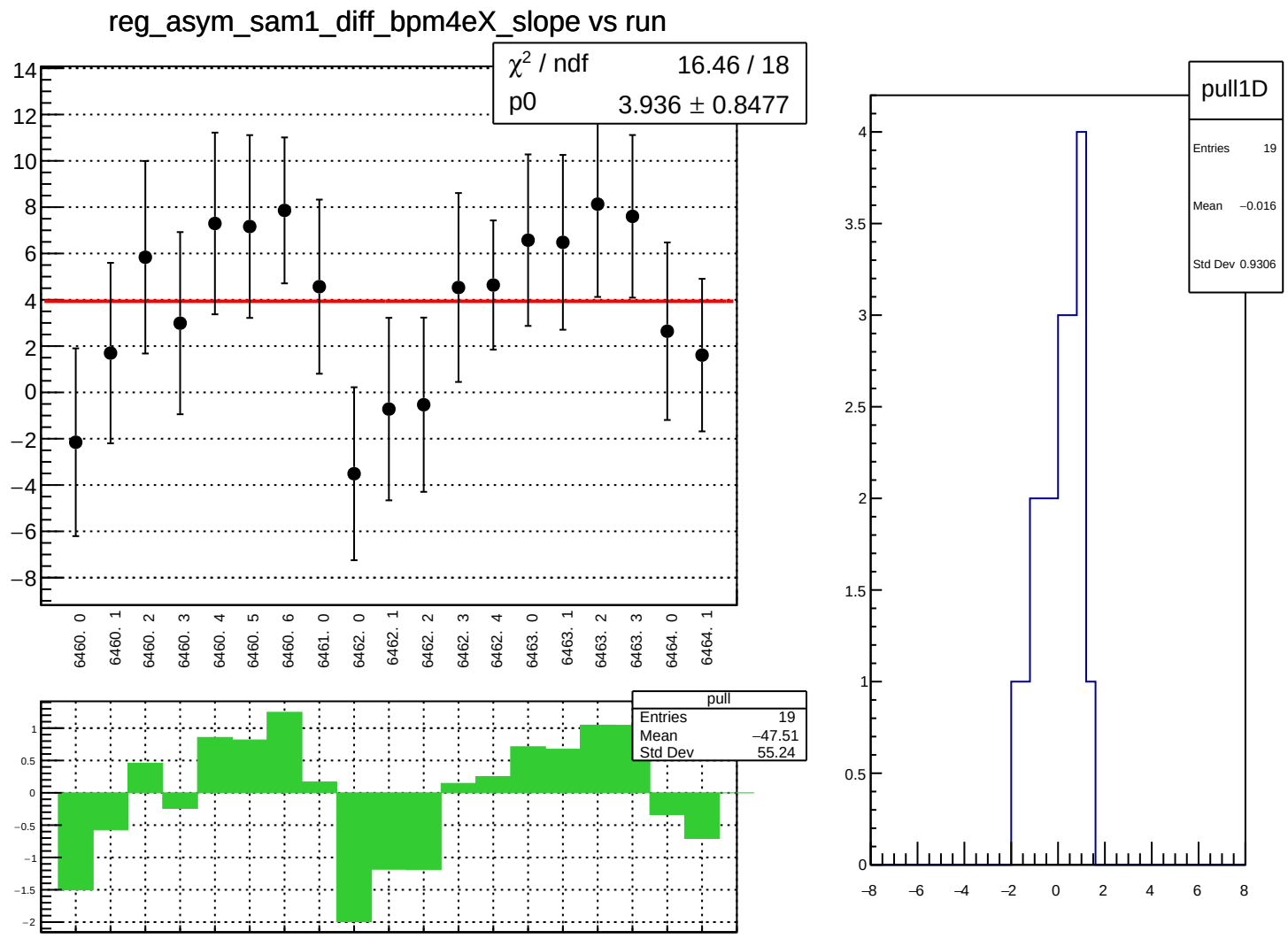

pull1D
Entries 19
Mean 0.003401
Std Dev 0.6002
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

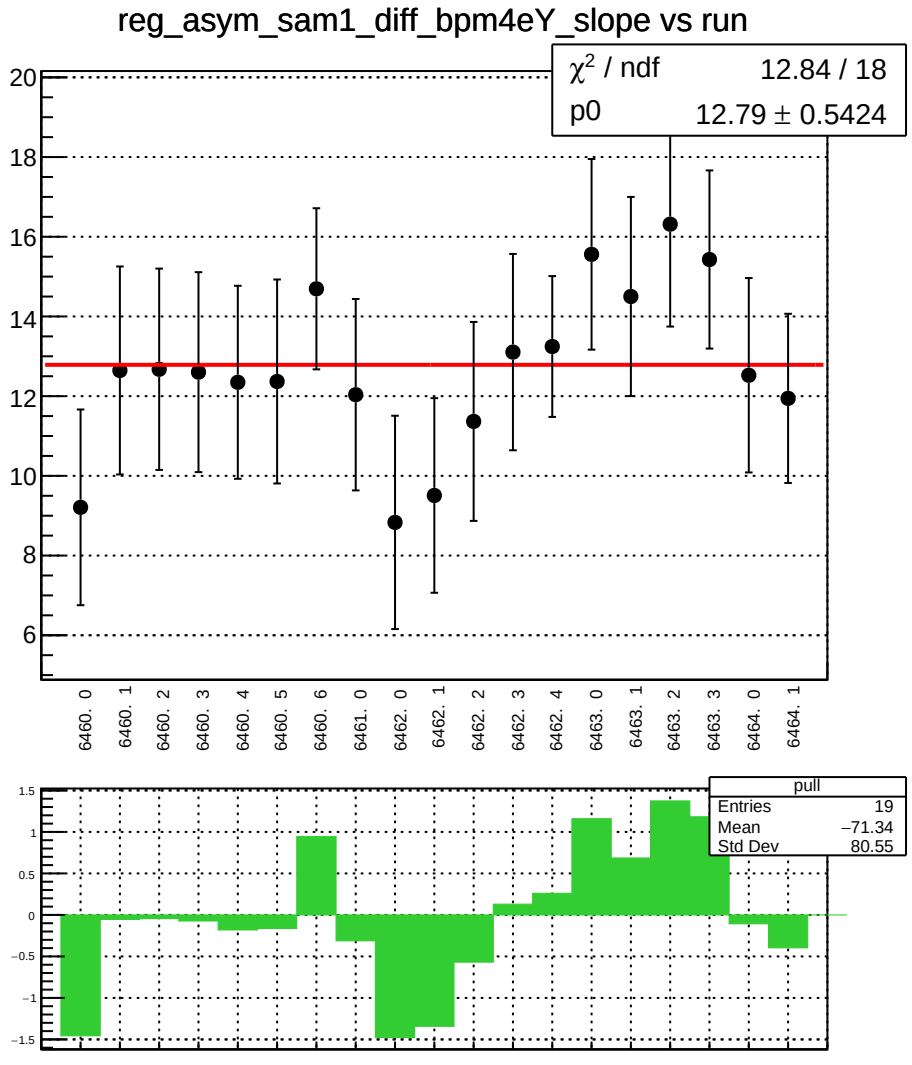

asym_sam_12345678_avg_rms vs run
χ² / ndf 830.5 / 18
p0 735.6 ± 1.197
800
780
760
740
720
700
680
660
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

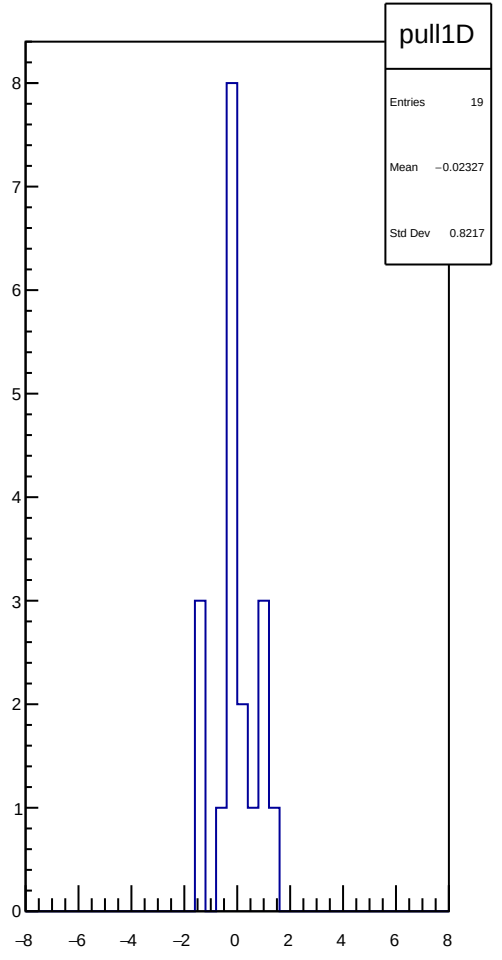

reg_asym_sam1_diff_bpm4aX_slope vs run
χ² / ndf 16.22 / 18
p0 −13.69 ± 0.7868
−2
−4
−6
−8
−10
−12
−14
−16
−18
−20
−22
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −50.77
Std Dev 58.18
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 19
Mean 0.01573
Std Dev 0.9238
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

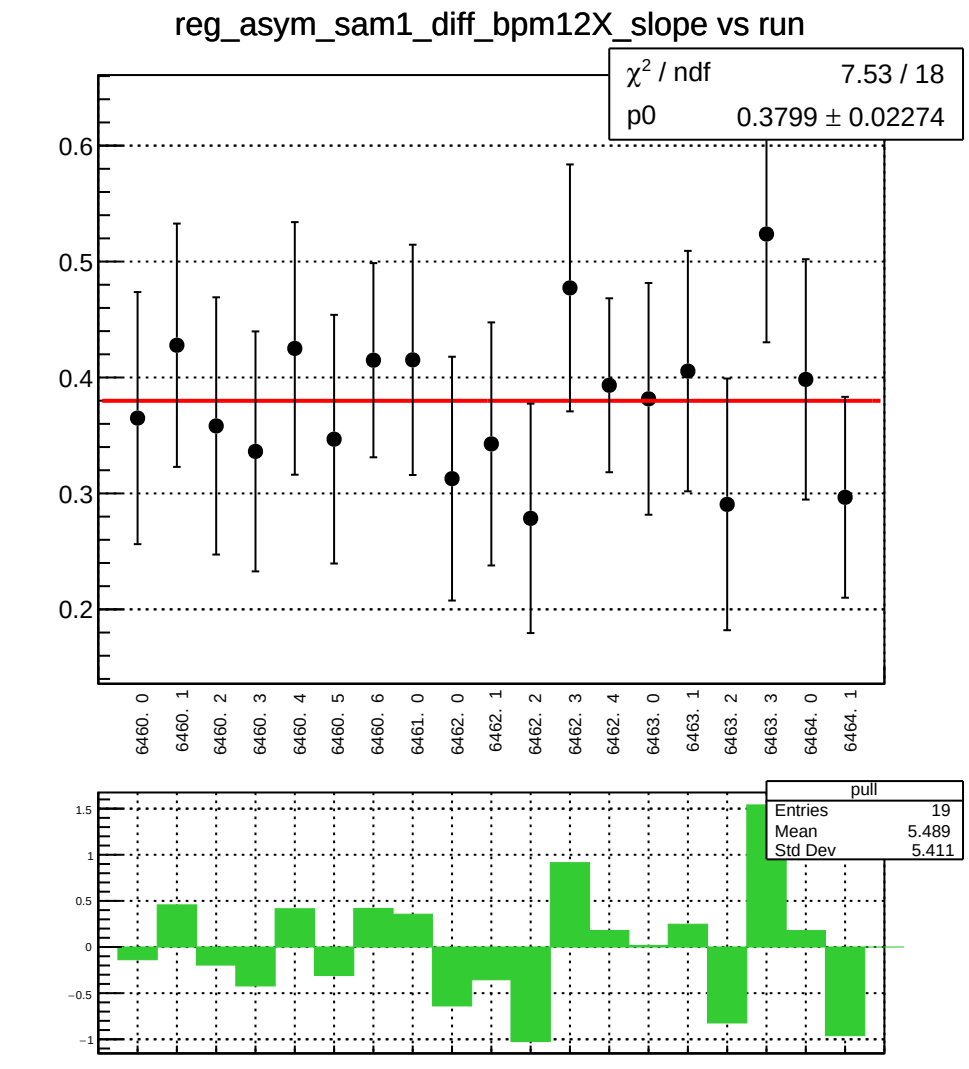

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 9.624 / 18
p0 −55.46 ± 0.5354
−50
−52
−54
−56
−58
−60
−62
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −66.9
Std Dev 76
1
0.5
0
−0.5
−1

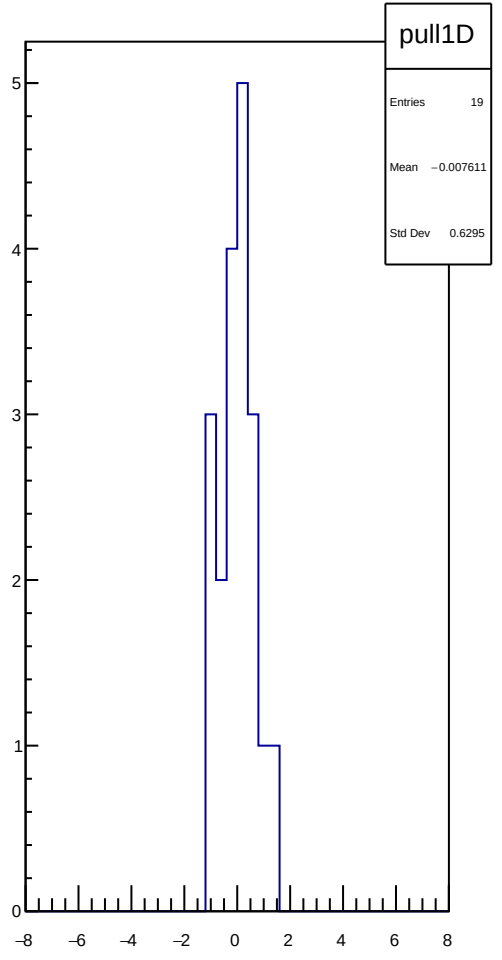

pull1D
Entries 19
Mean 0.021
Std Dev 0.7114
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

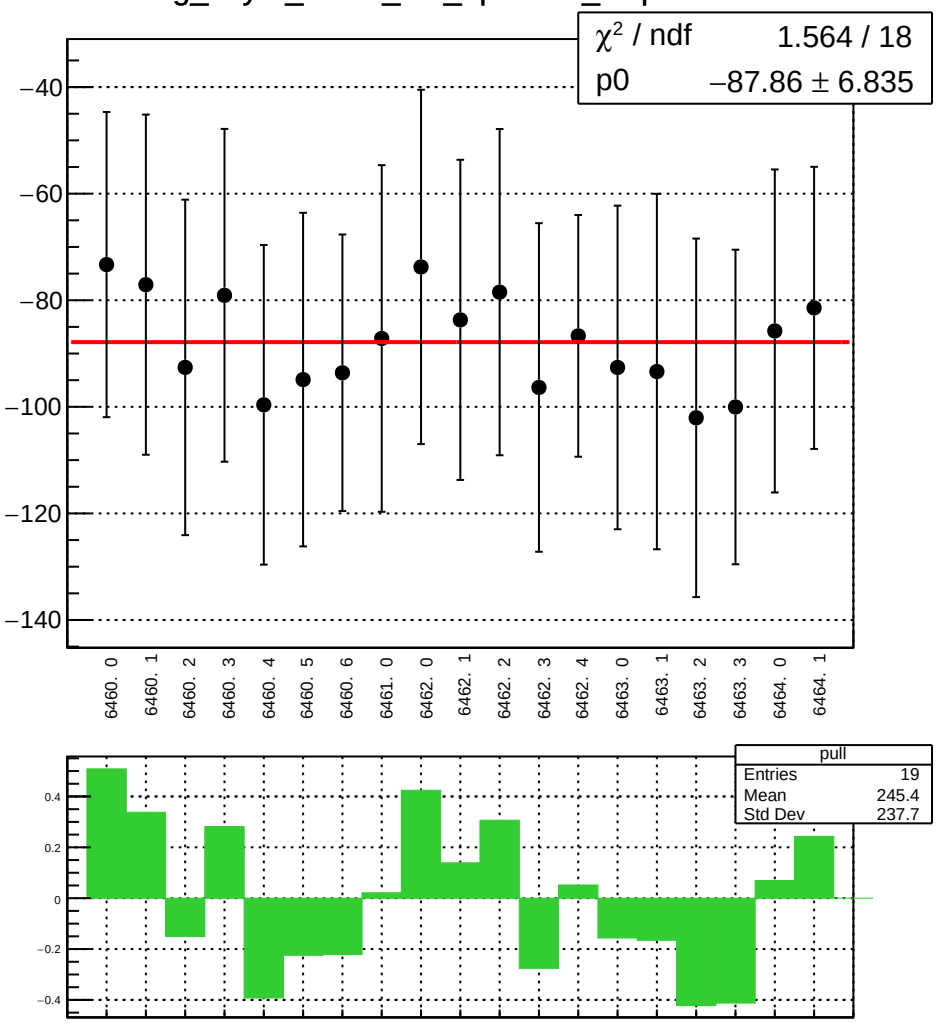

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 16.46 / 18
p0 3.936 ± 0.8477
14
12
10
8
6
4
2
0
−2
−4
−6
−8
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −47.51
Std Dev 55.24
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 19
Mean −0.016
Std Dev 0.9306
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

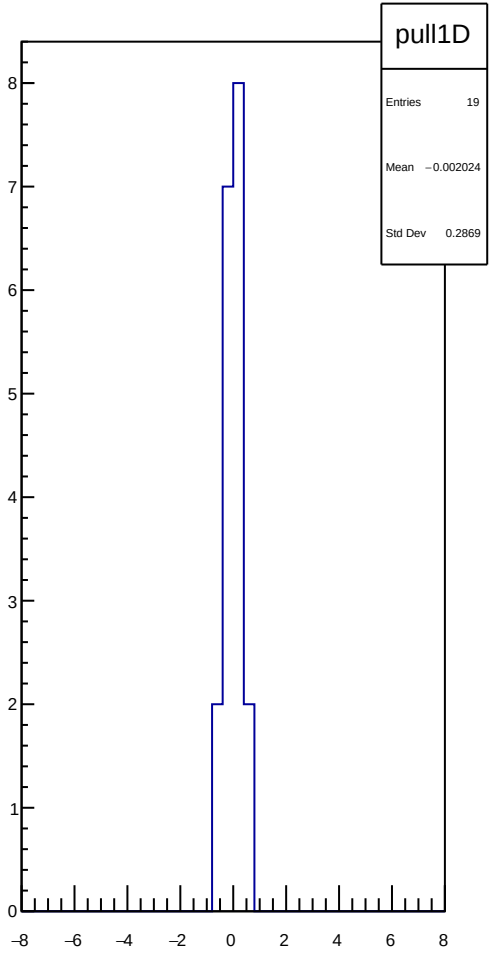

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 12.84 / 18
p0 12.79 ± 0.5424
20
18
16
14
12
10
8
6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −71.34
Std Dev 80.55
1.5
1
0.5
0
−0.5
−1
−1.5

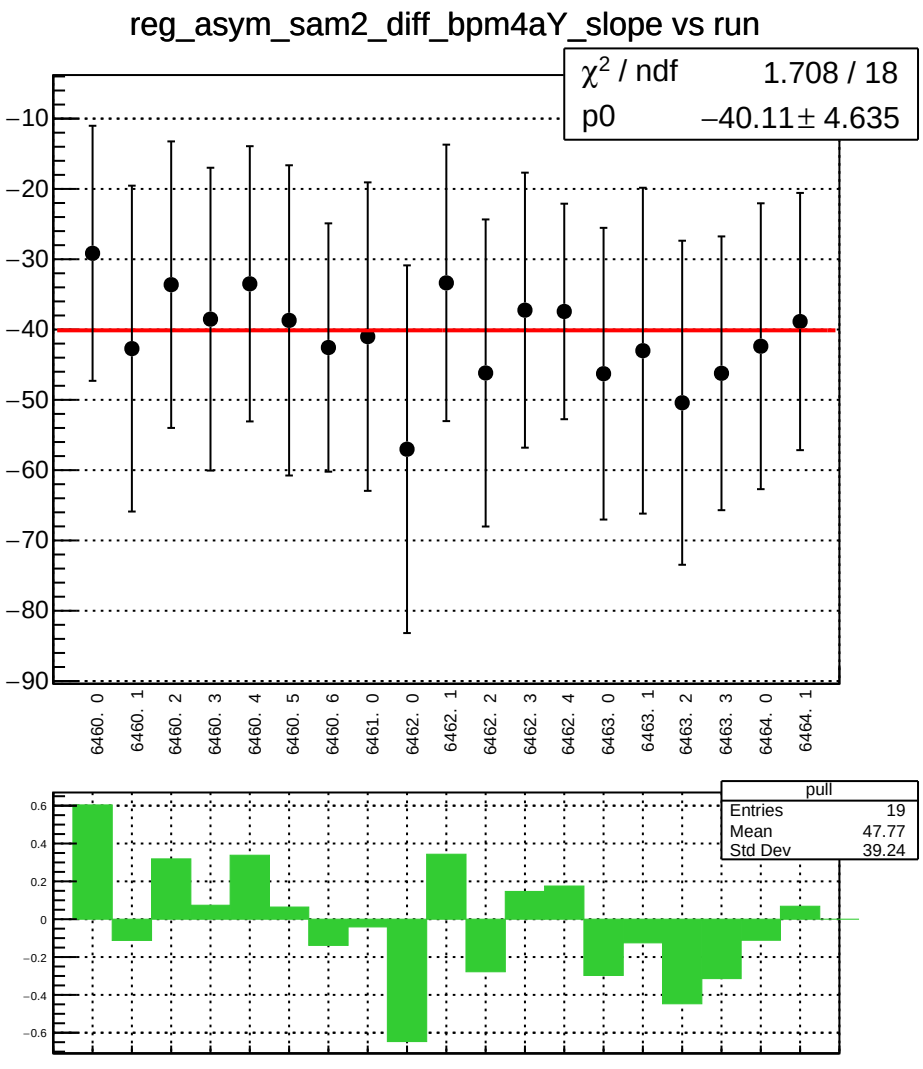

pull1D
Entries 19
Mean −0.02327
Std Dev 0.8217
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

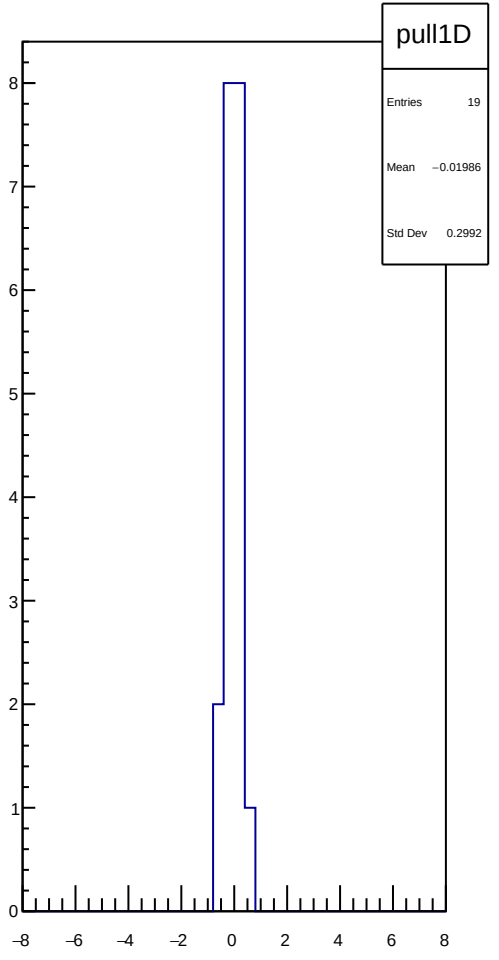

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 7.53 / 18
p0 0.3799 ± 0.02274
0.6
0.5
0.4
0.3
0.2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 5.489
Std Dev 5.411
1.5
1
0.5
0
−0.5
−1

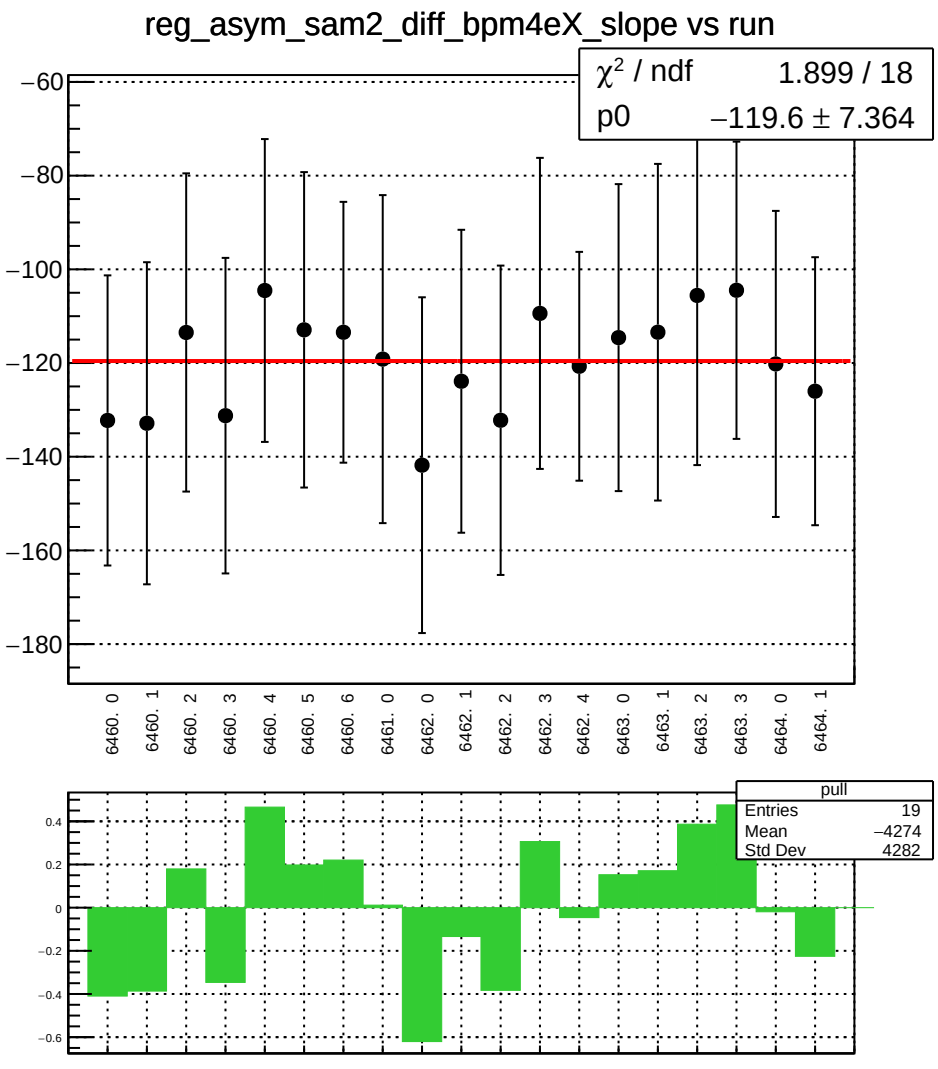

pull1D
Entries 19
Mean −0.007611
Std Dev 0.6295
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

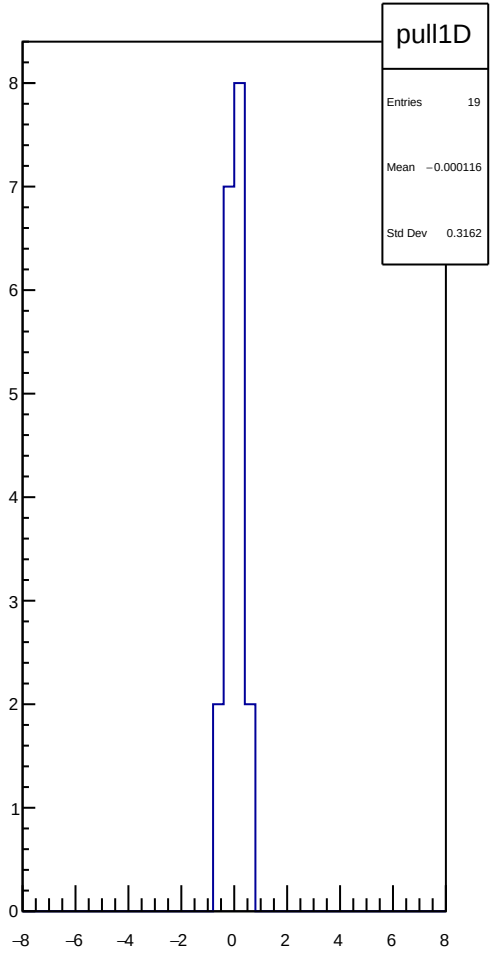

reg_asym_sam2_diff_bpm4aX_slope vs run
χ² / ndf 1.564 / 18
p0 −87.86 ± 6.835
−40
−60
−80
−100
−120
−140
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 245.4
Std Dev 237.7
0.4
0.2
0
−0.2
−0.4

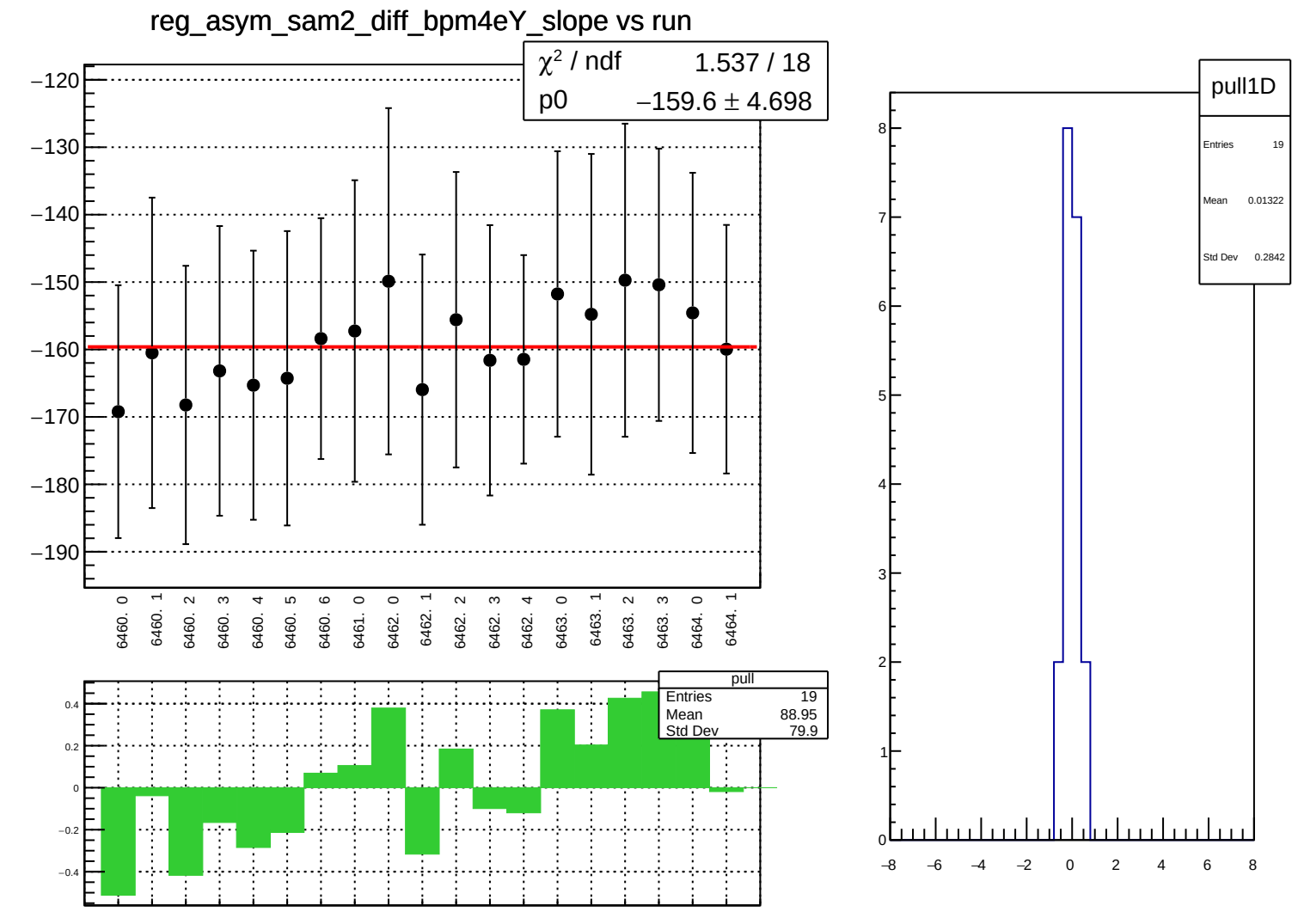

pull1D
Entries 19
Mean −0.002024
Std Dev 0.2869
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

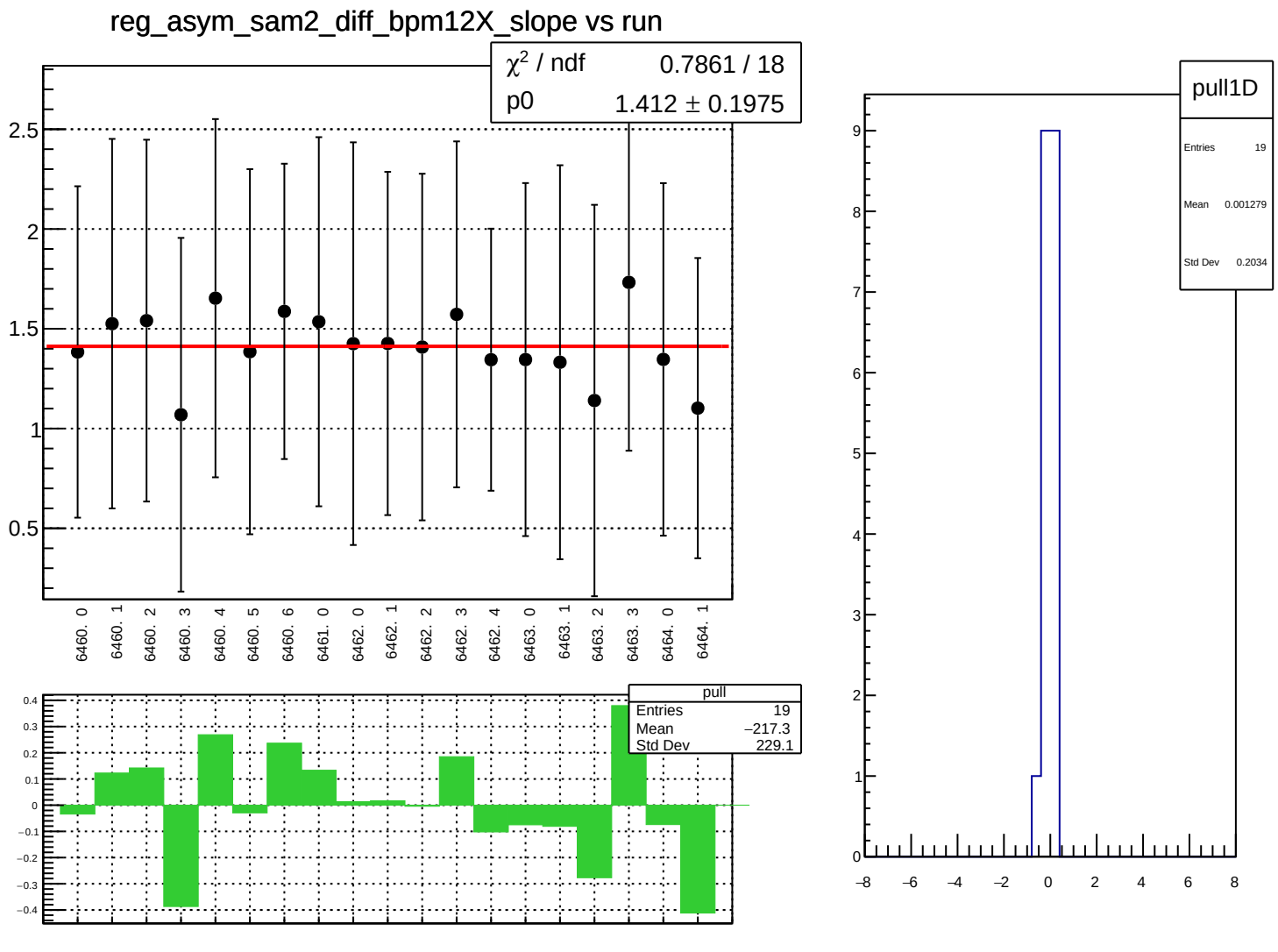

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 1.708 / 18
p0 −40.11 ± 4.635
−10
−20
−30
−40
−50
−60
−70
−80
−90
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 47.77
Std Dev 39.24
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

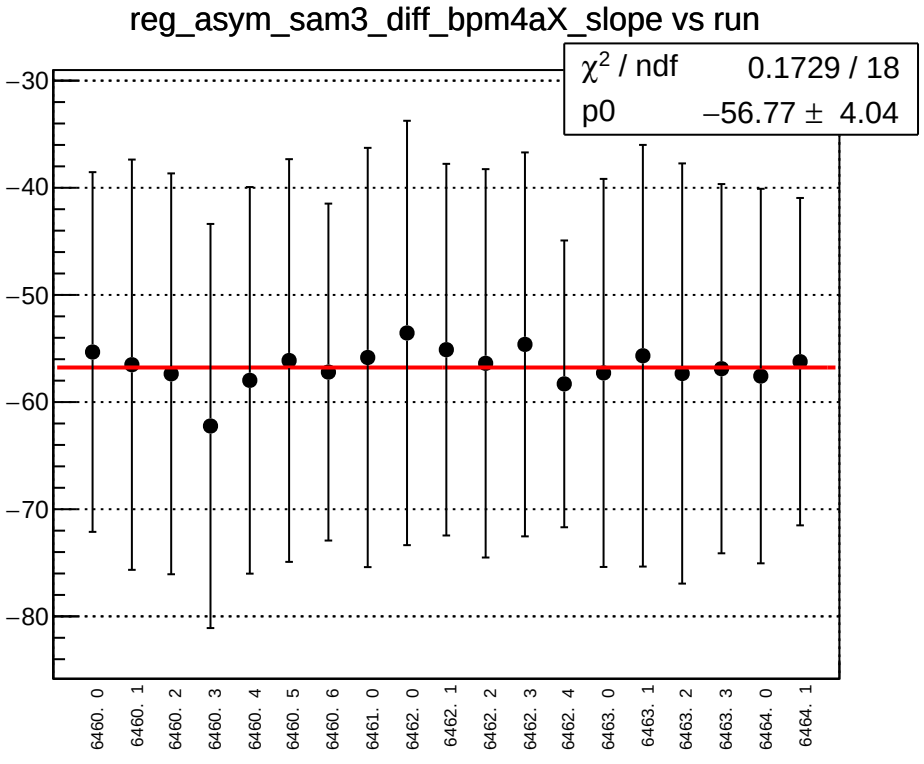

pull1D
Entries 19
Mean −0.01986
Std Dev 0.2992
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

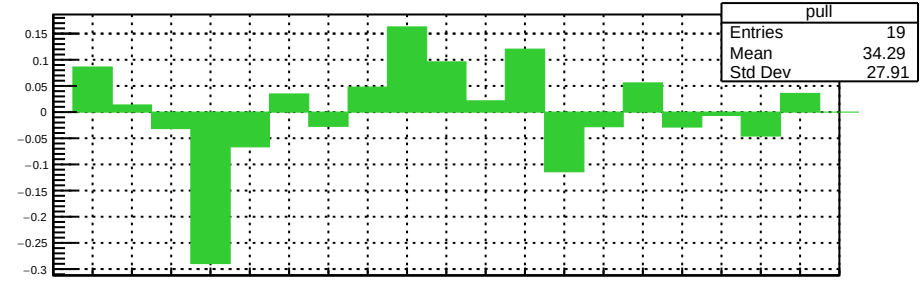

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 1.899 / 18
p0 −119.6 ± 7.364
−60
−80
−100
−120
−140
−160
−180
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −4274
Std Dev 4282
0.4
0.2
0
−0.2
−0.4
−0.6

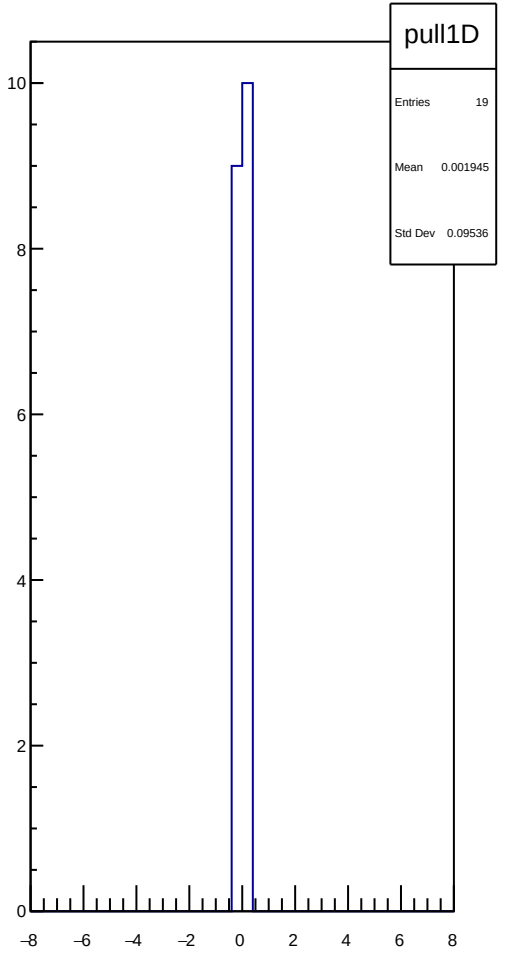

pull1D
Entries 19
Mean −0.000116
Std Dev 0.3162
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

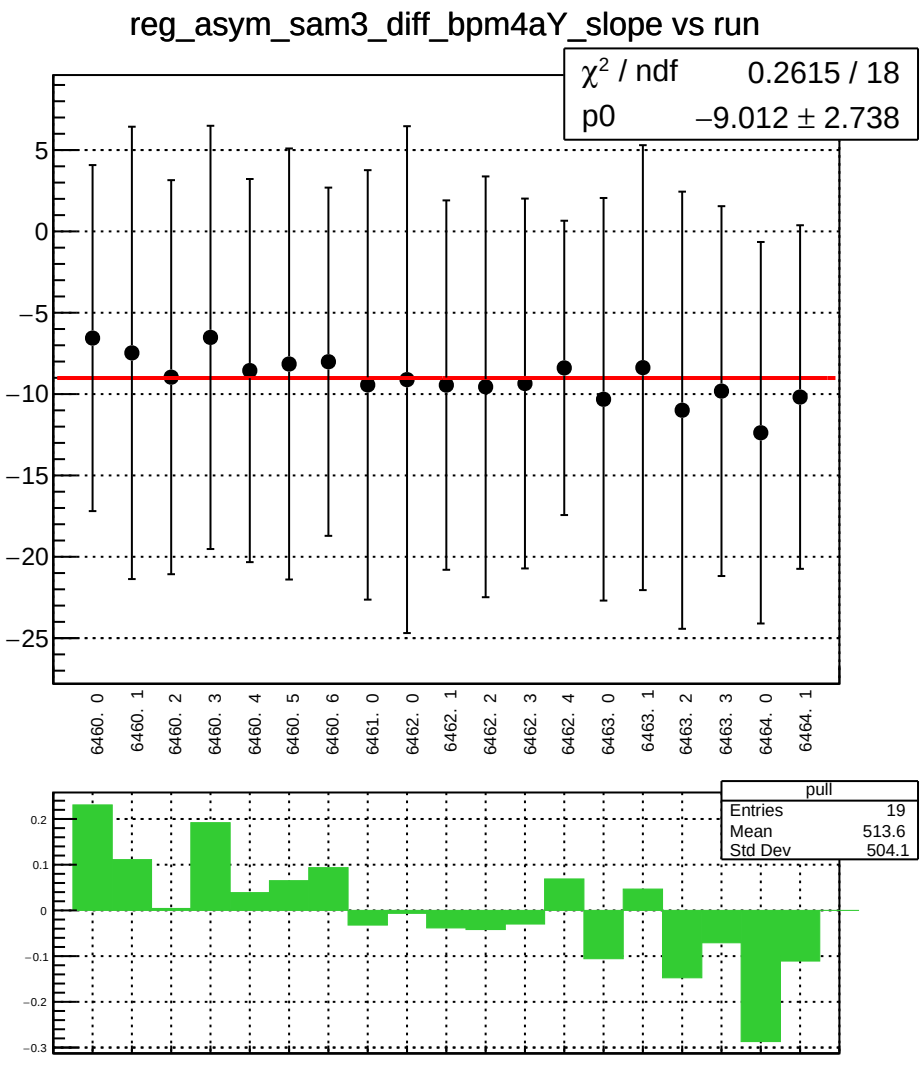

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 1.537 / 18
p0 −159.6 ± 4.698
−120
−130
−140
−150
−160
−170
−180
−190
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 88.95
Std Dev 79.9
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 19
Mean 0.01322
Std Dev 0.2842
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

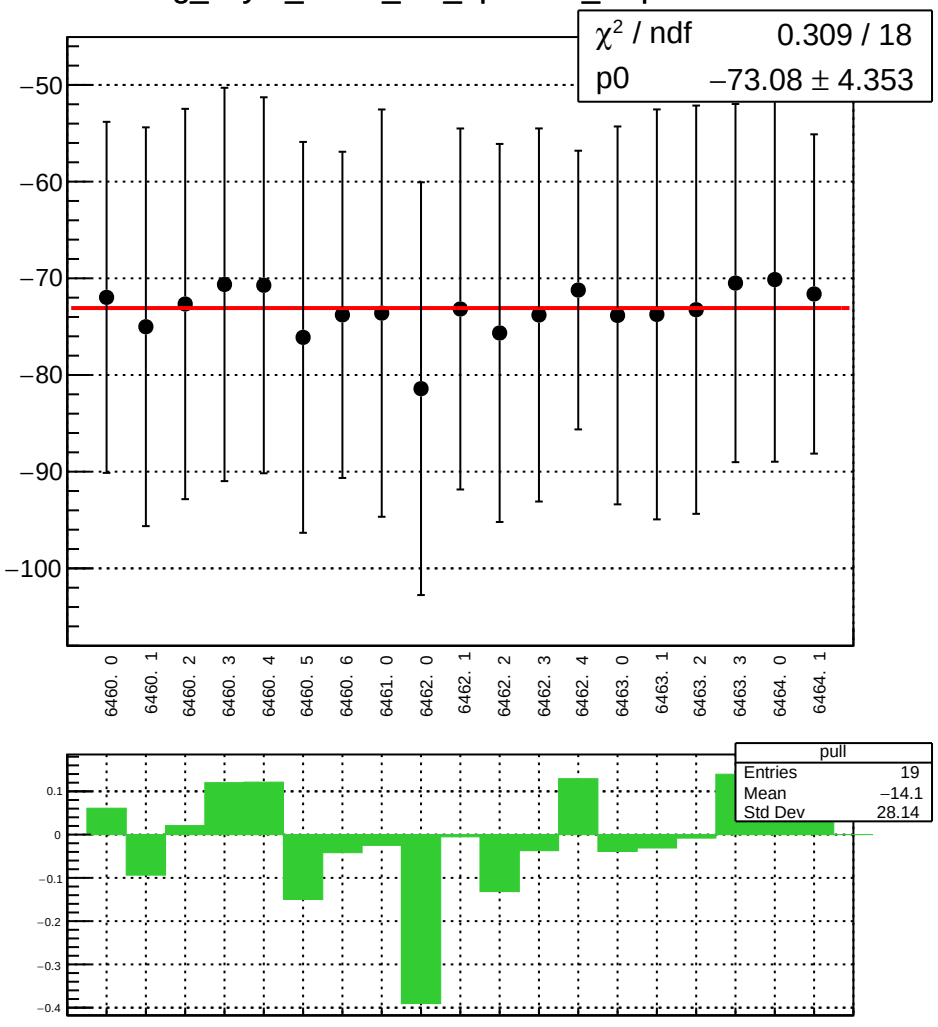

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 0.7861 / 18
p0 1.412 ± 0.1975
2.5
2
1.5
1
0.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −217.3
Std Dev 229.1
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 19
Mean 0.001279
Std Dev 0.2034
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

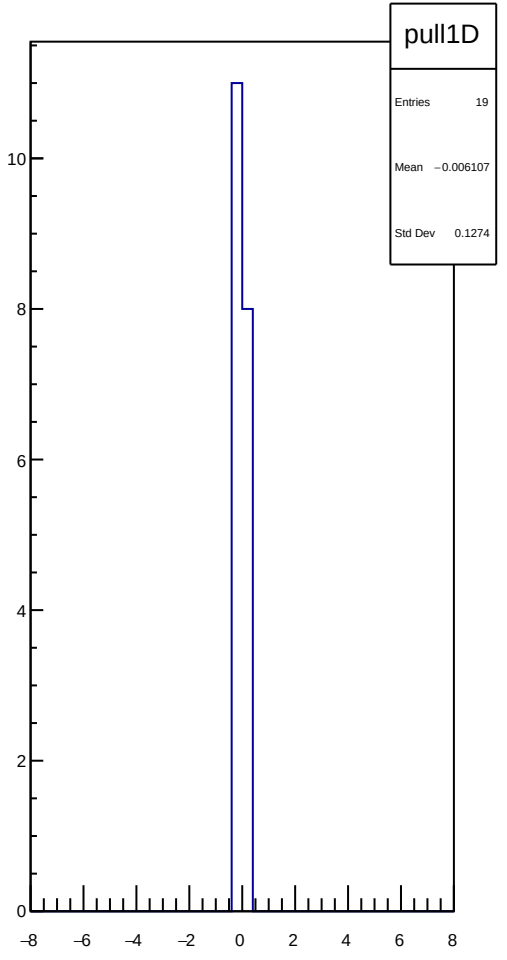

reg_asym_sam3_diff_bpm4aX_slope vs run
χ² / ndf 0.1729 / 18
p0 −56.77 ± 4.04
−30
−40
−50
−60
−70
−80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

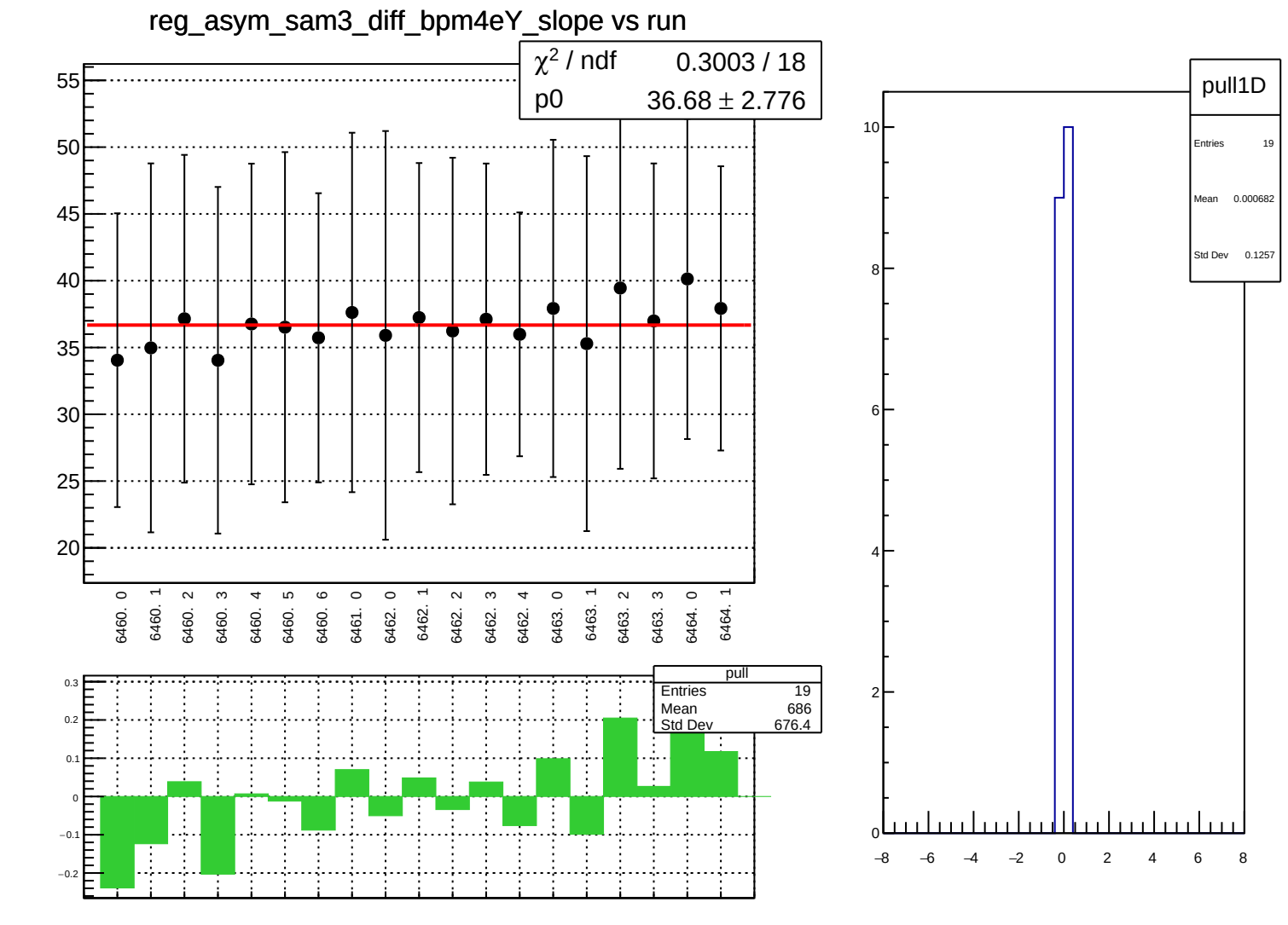

pull
Entries 19
Mean 34.29
Std Dev 27.91
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
−0.25
−0.3

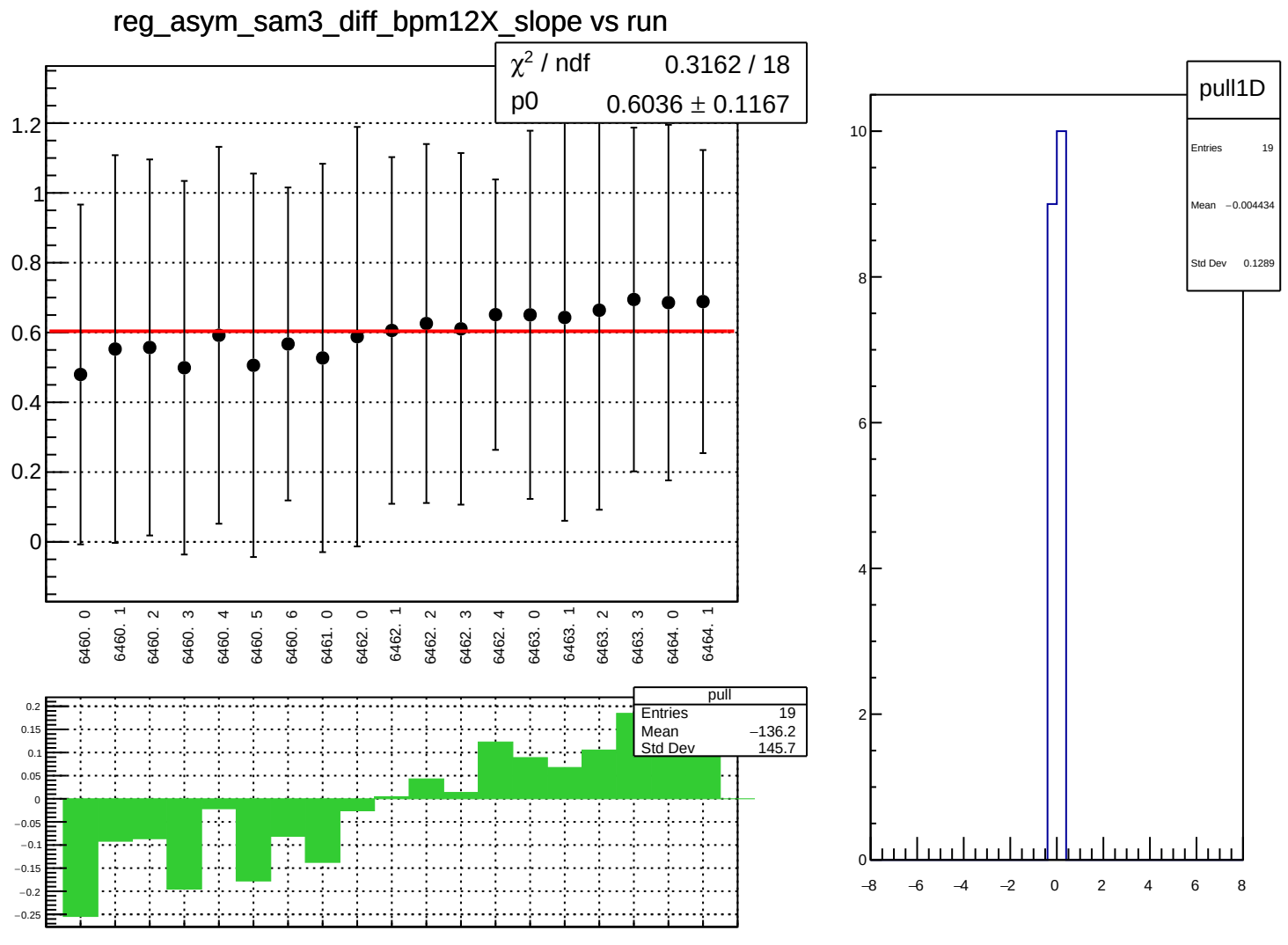

pull1D
Entries 19
Mean 0.001945
Std Dev 0.09536
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

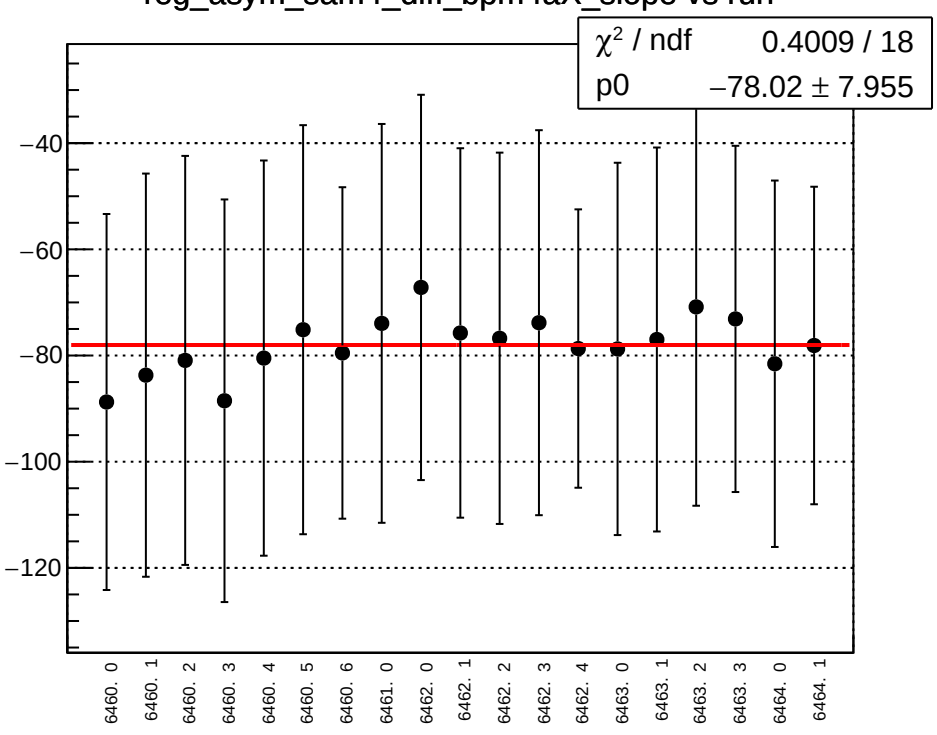

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 0.2615 / 18
p0 −9.012 ± 2.738
5
0
−5
−10
−15
−20
−25
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 513.6
Std Dev 504.1
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 19
Mean −0.0009988
Std Dev 0.1173
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

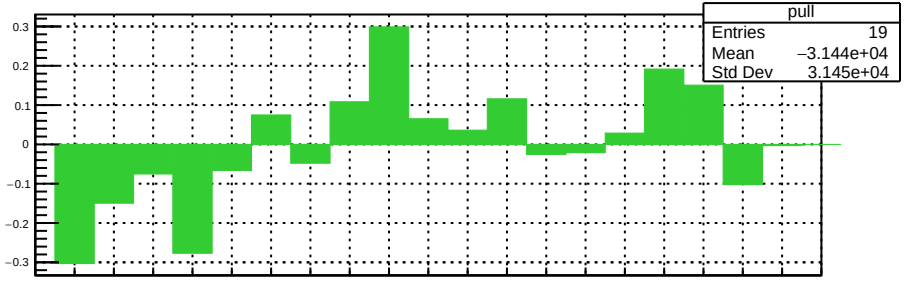

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 0.309 / 18
p0 −73.08 ± 4.353
−50
−60
−70
−80
−90
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −14.1
Std Dev 28.14
0.1
0
−0.1
−0.2
−0.3
−0.4

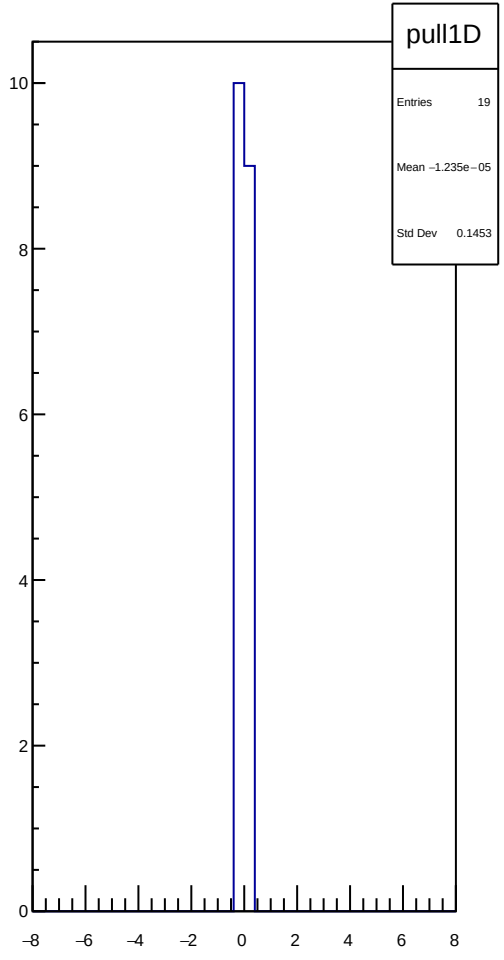

pull1D
Entries 19
Mean −0.006107
Std Dev 0.1274
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

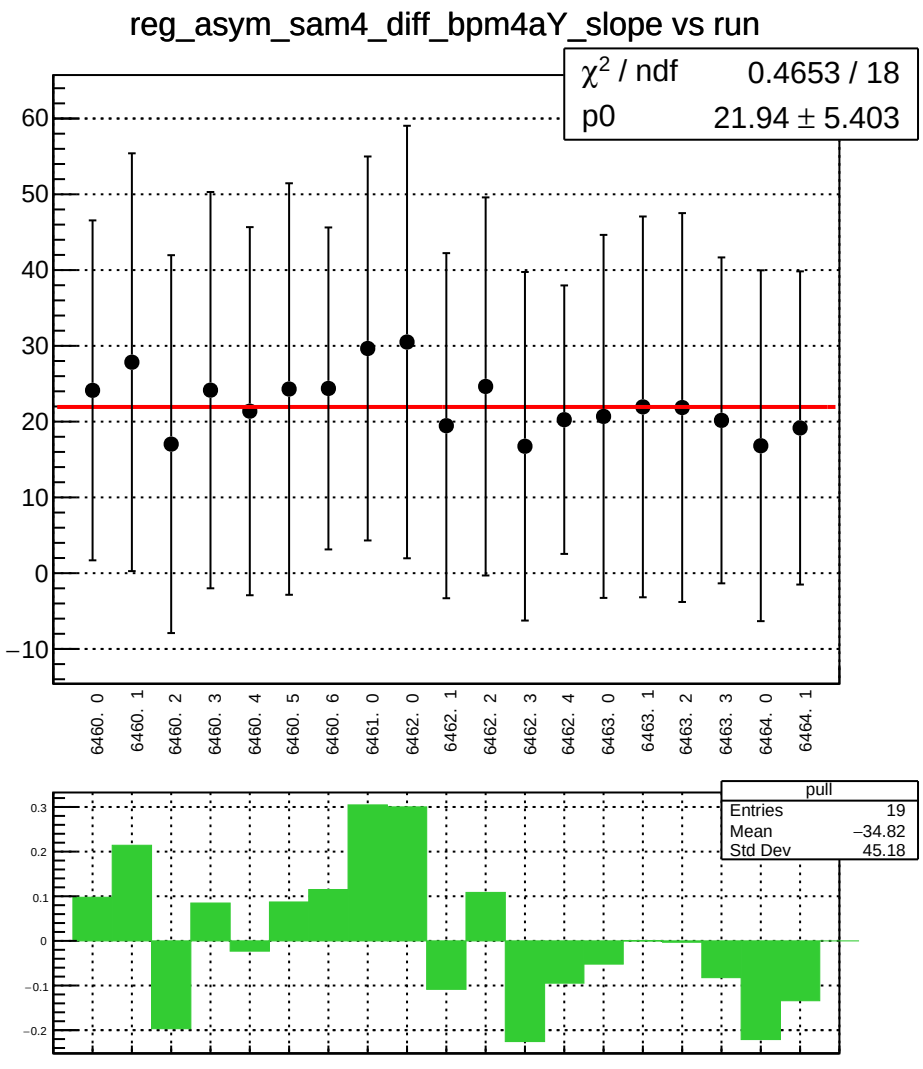

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 0.3003 / 18
p0 36.68 ± 2.776
55
50
45
40
35
30
25
20
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 686
Std Dev 676.4
0.3
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 19
Mean 0.000682
Std Dev 0.1257
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

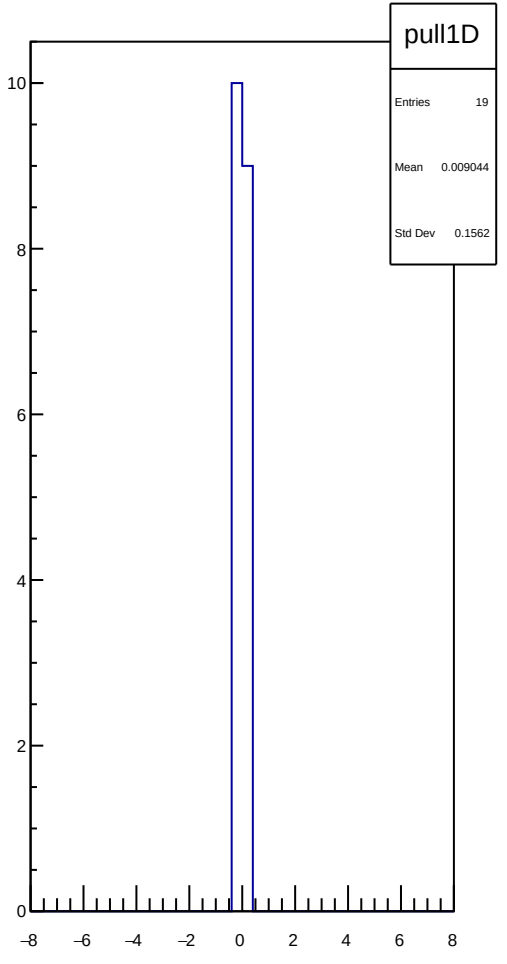

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 0.3162 / 18
p0 0.6036 ± 0.1167
1.2
1
0.8
0.6
0.4
0.2
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −136.2
Std Dev 145.7
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
−0.25
pull1D
Entries 19
Mean −0.004434
Std Dev 0.1289
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

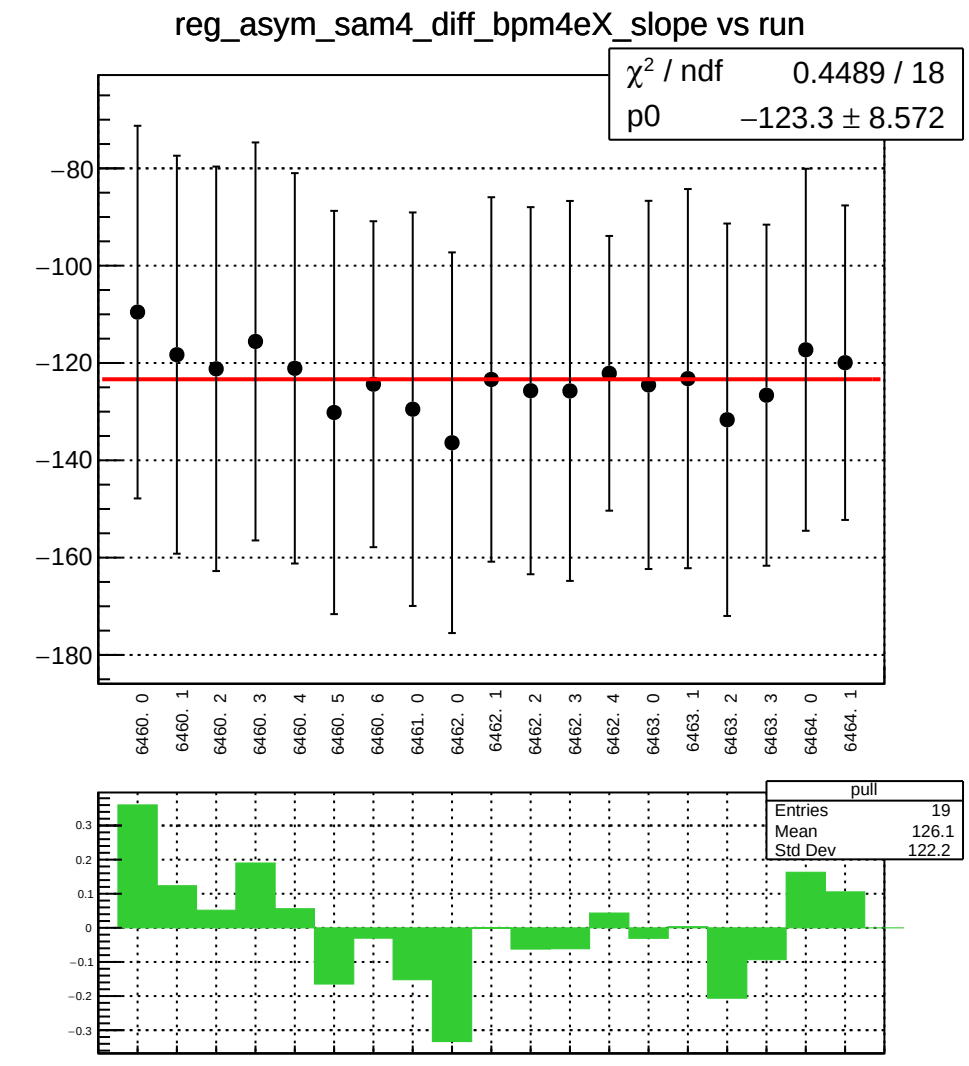

reg_asym_sam4_diff_bpm4aX_slope vs run
χ² / ndf 0.4009 / 18
p0 −78.02 ± 7.955
−40
−60
−80
−100
−120
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

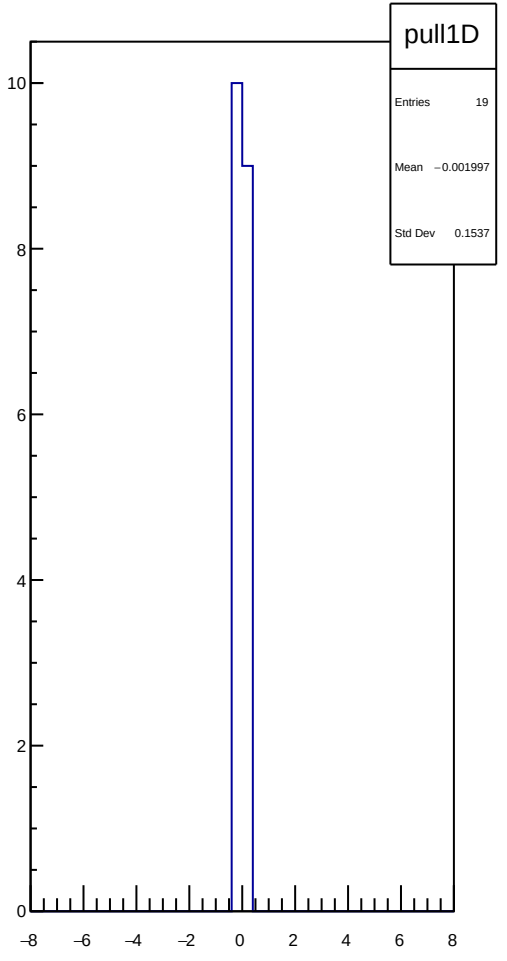

pull
Entries 19
Mean −3.144e+04
Std Dev 3.145e+04
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

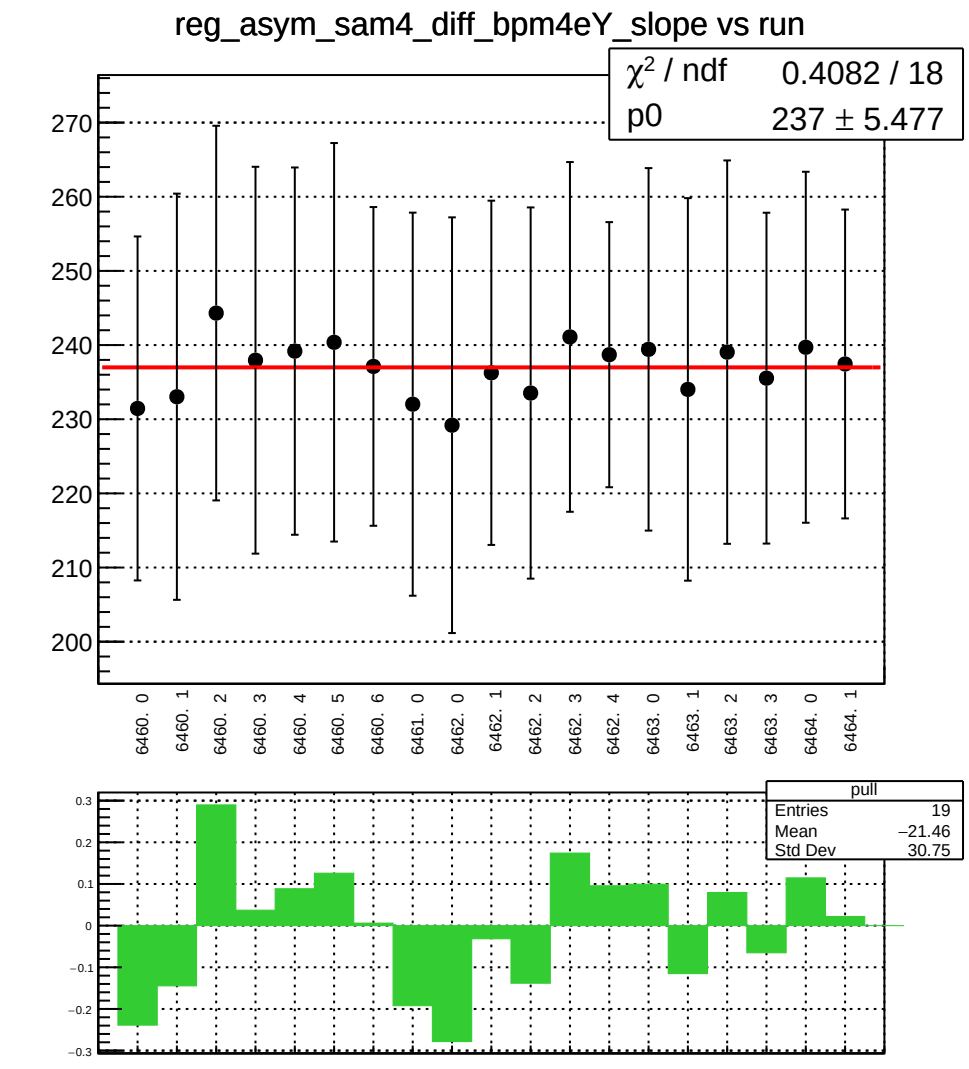

pull1D
Entries 19
Mean −1.235e−05
Std Dev 0.1453
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

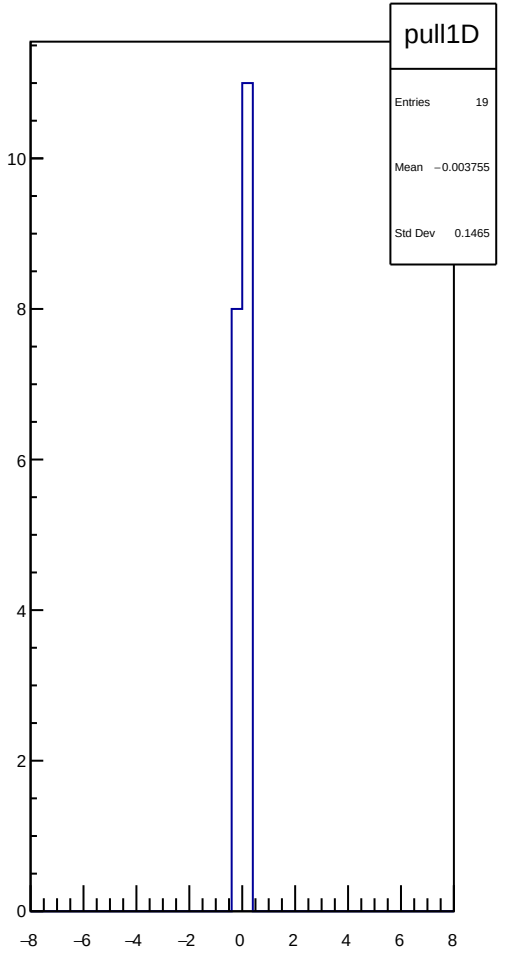

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 0.4653 / 18
p0 21.94 ± 5.403
60
50
40
30
20
10
0
−10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −34.82
Std Dev 45.18
0.3
0.2
0.1
0
−0.1
−0.2

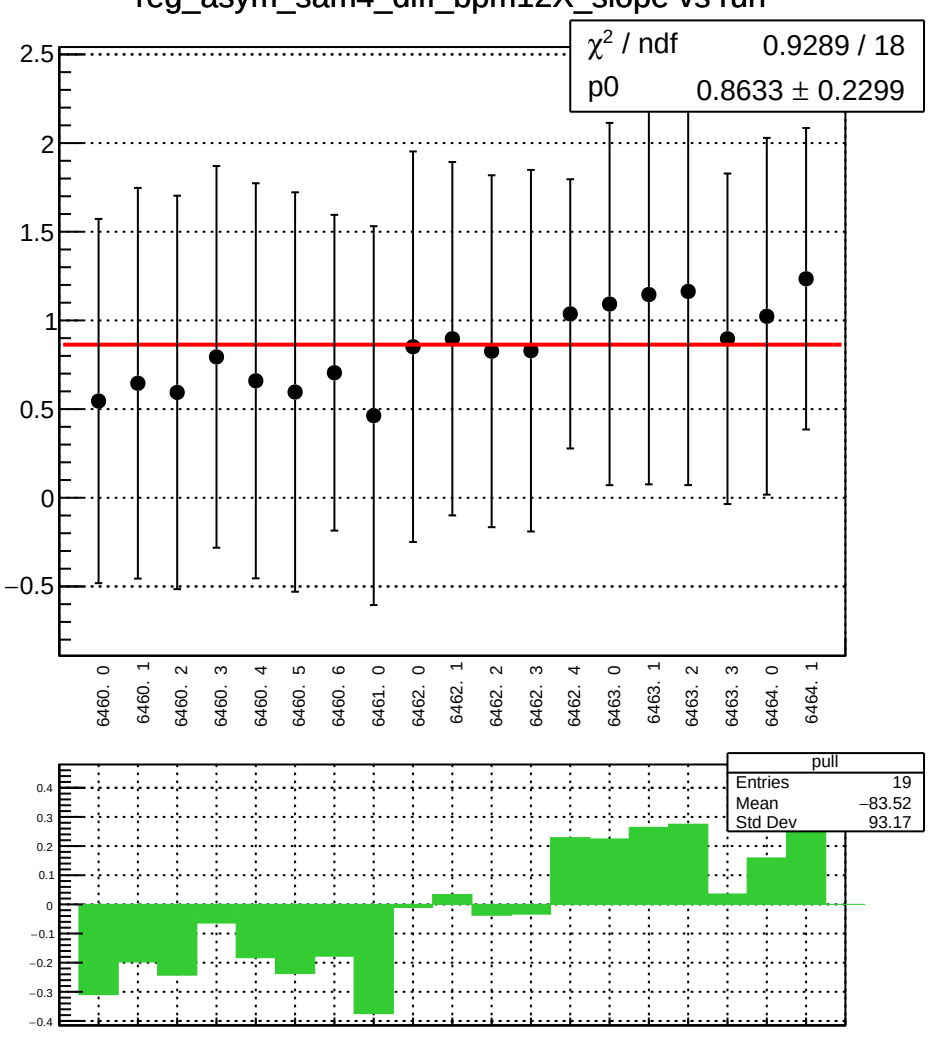

pull1D
Entries 19
Mean 0.009044
Std Dev 0.1562
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

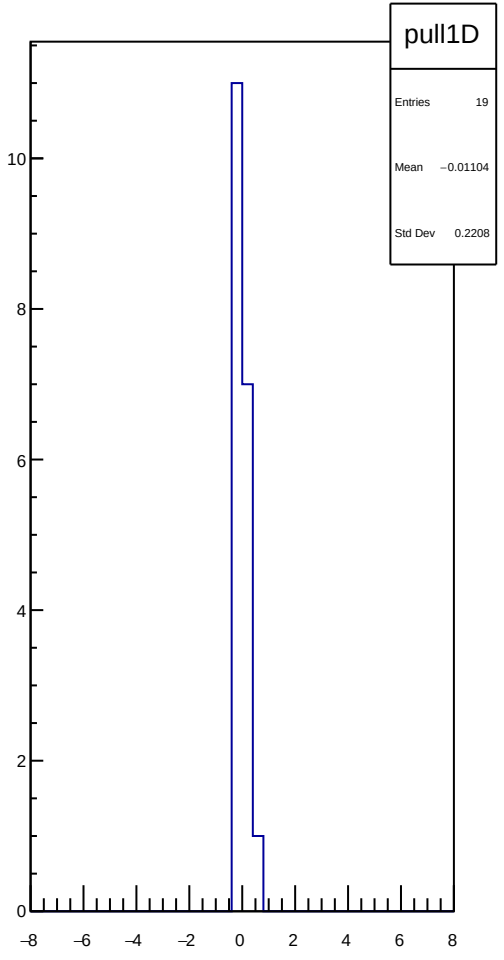

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 0.4489 / 18
p0 −123.3 ± 8.572
−80
−100
−120
−140
−160
−180
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 126.1
Std Dev 122.2
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

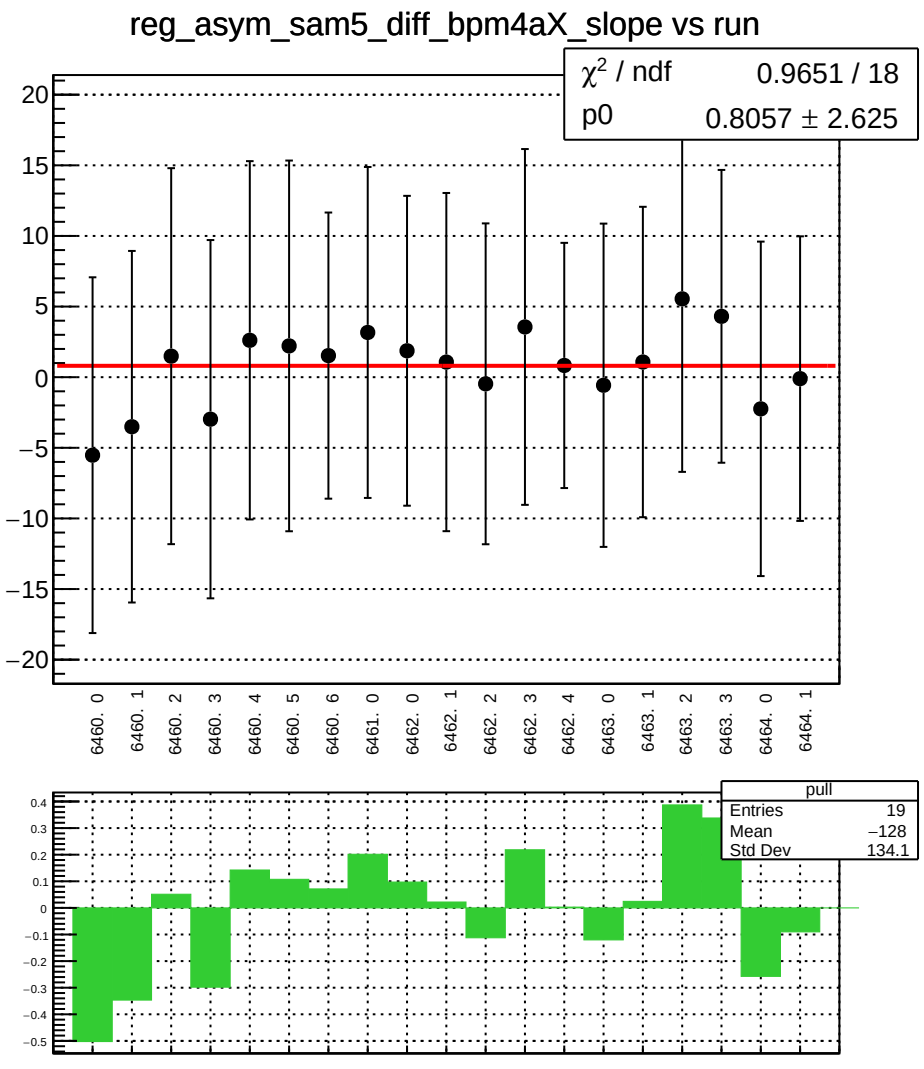

pull1D
Entries 19
Mean −0.001997
Std Dev 0.1537
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

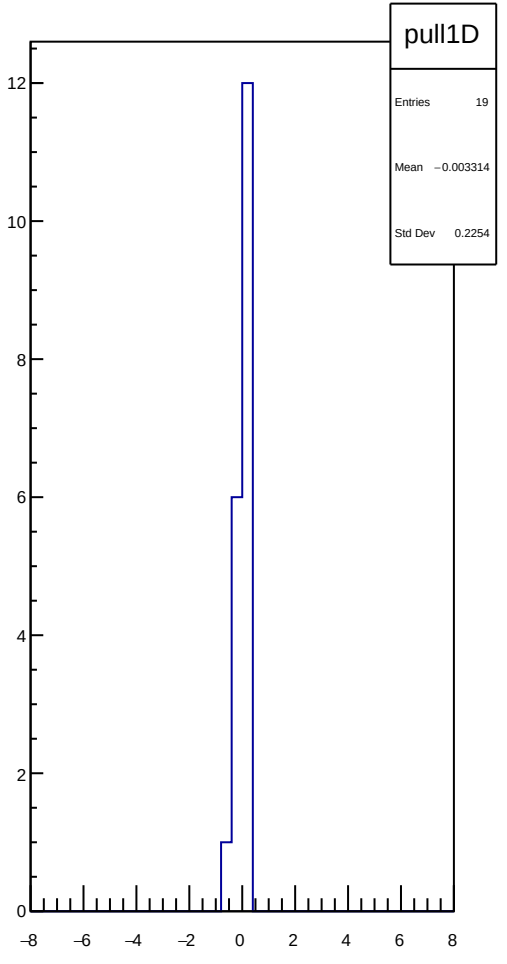

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 0.4082 / 18
p0 237 ± 5.477
270
260
250
240
230
220
210
200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −21.46
Std Dev 30.75
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

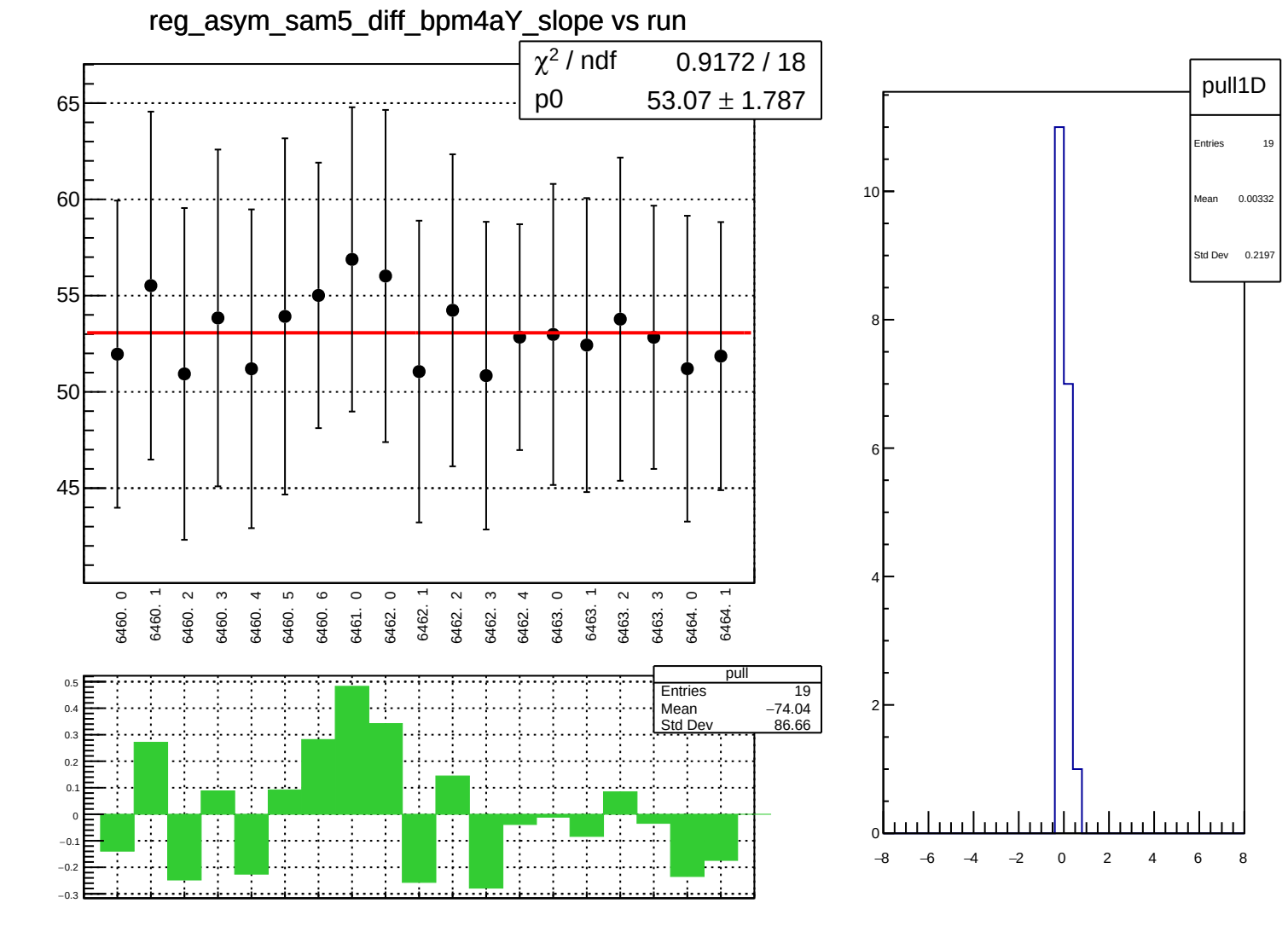

pull1D
Entries 19
Mean −0.003755
Std Dev 0.1465
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

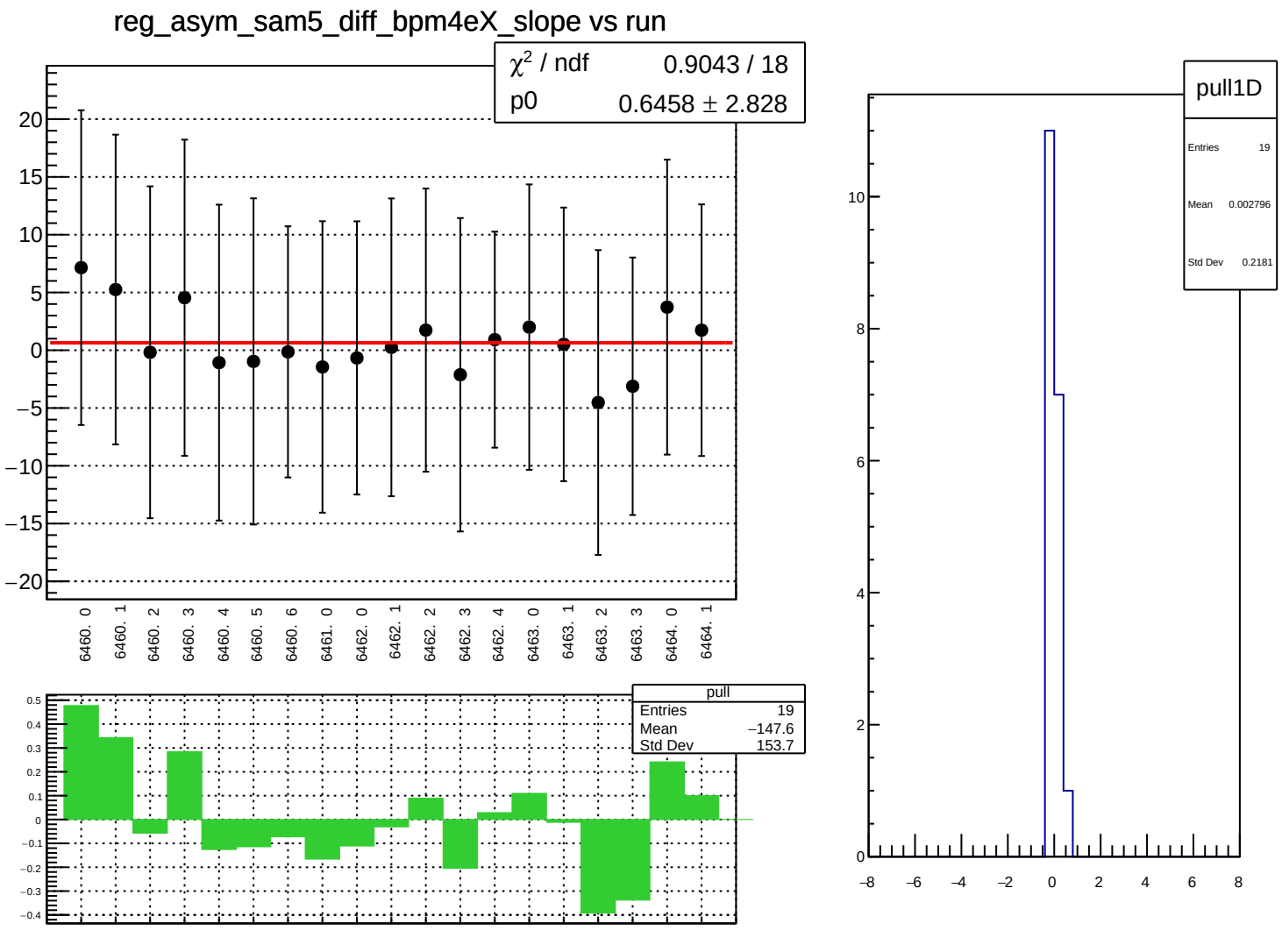

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 0.9289 / 18
p0 0.8633 ± 0.2299
2.5
2
1.5
1
0.5
0
−0.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −83.52
Std Dev 93.17
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

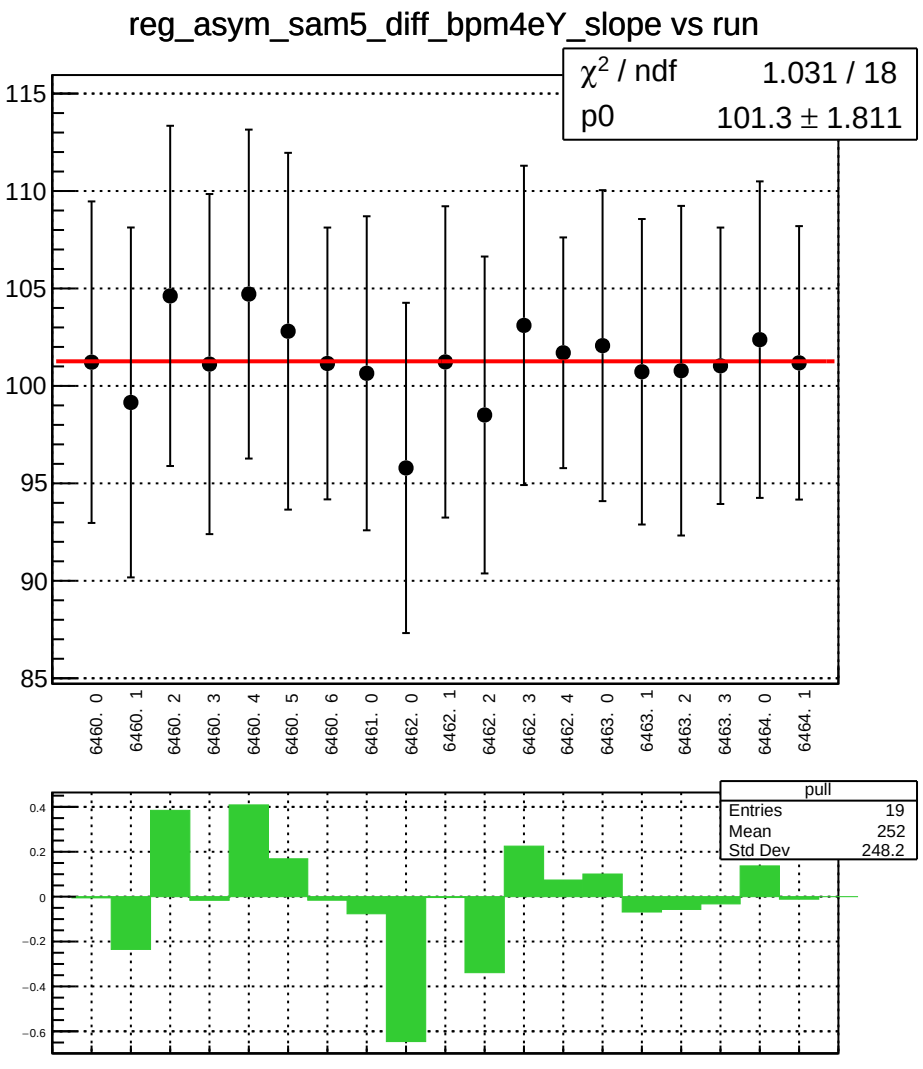

pull1D
Entries 19
Mean −0.01104
Std Dev 0.2208
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

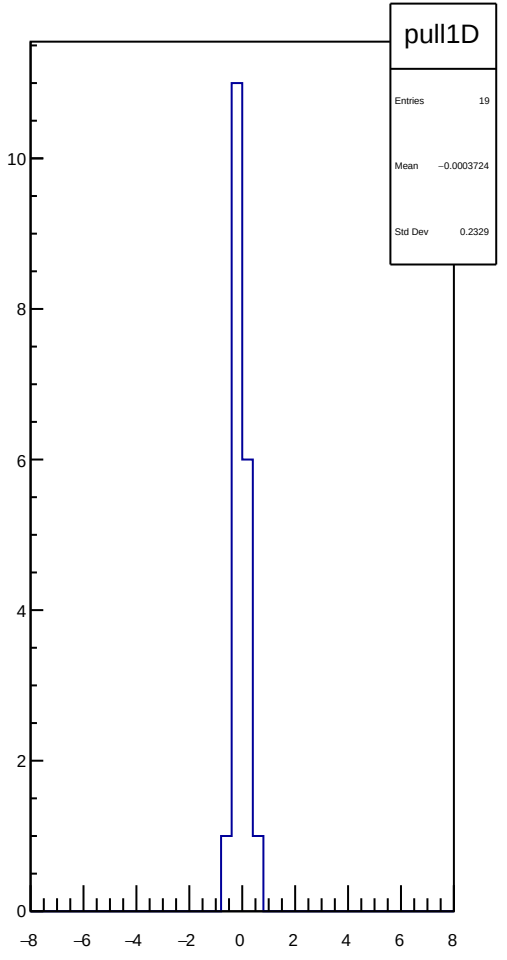

reg_asym_sam5_diff_bpm4aX_slope vs run
χ² / ndf 0.9651 / 18
p0 0.8057 ± 2.625
20
15
10
5
0
−5
−10
−15
−20
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −128
Std Dev 134.1
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5

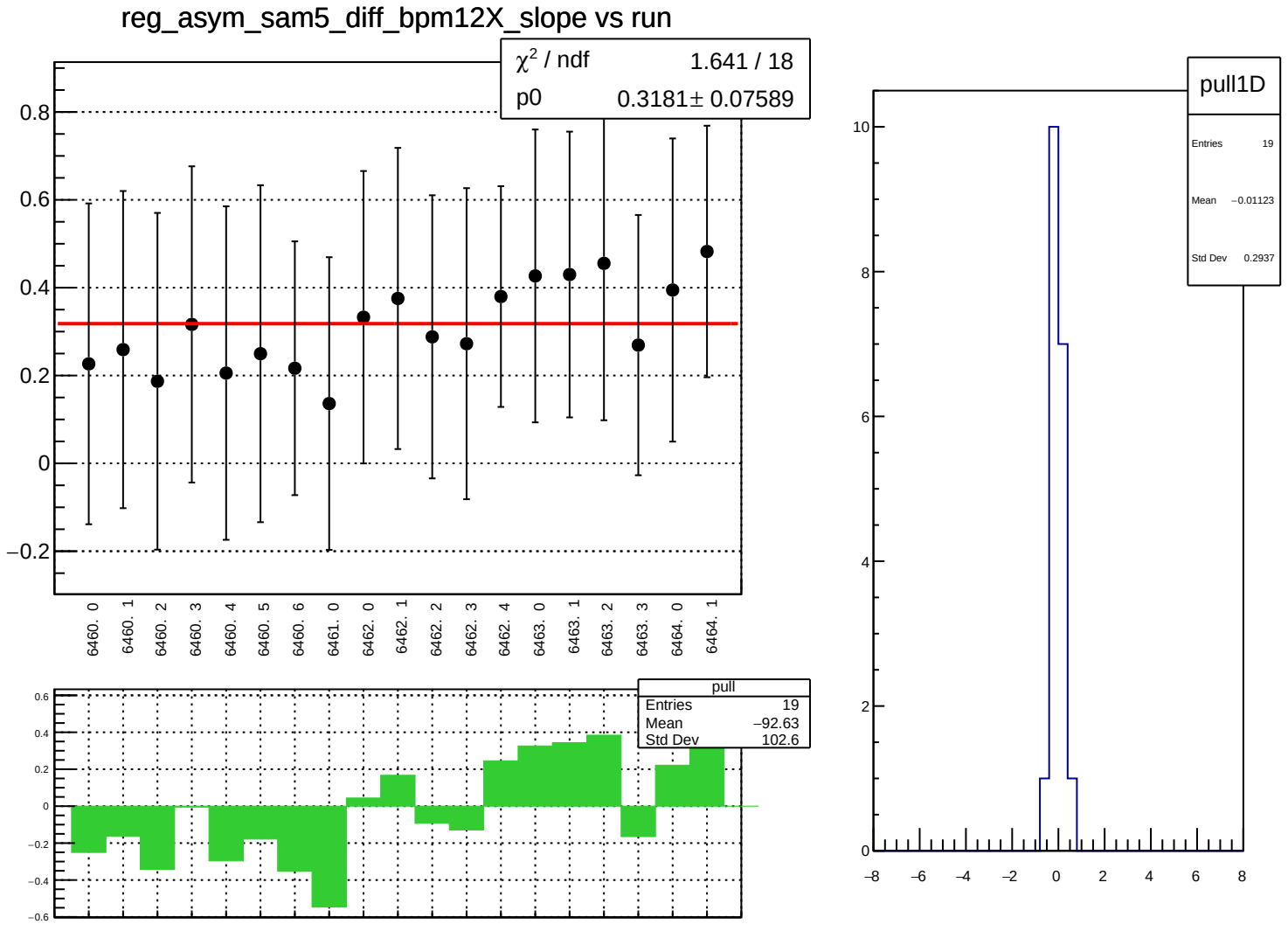

pull1D
Entries 19
Mean −0.003314
Std Dev 0.2254
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

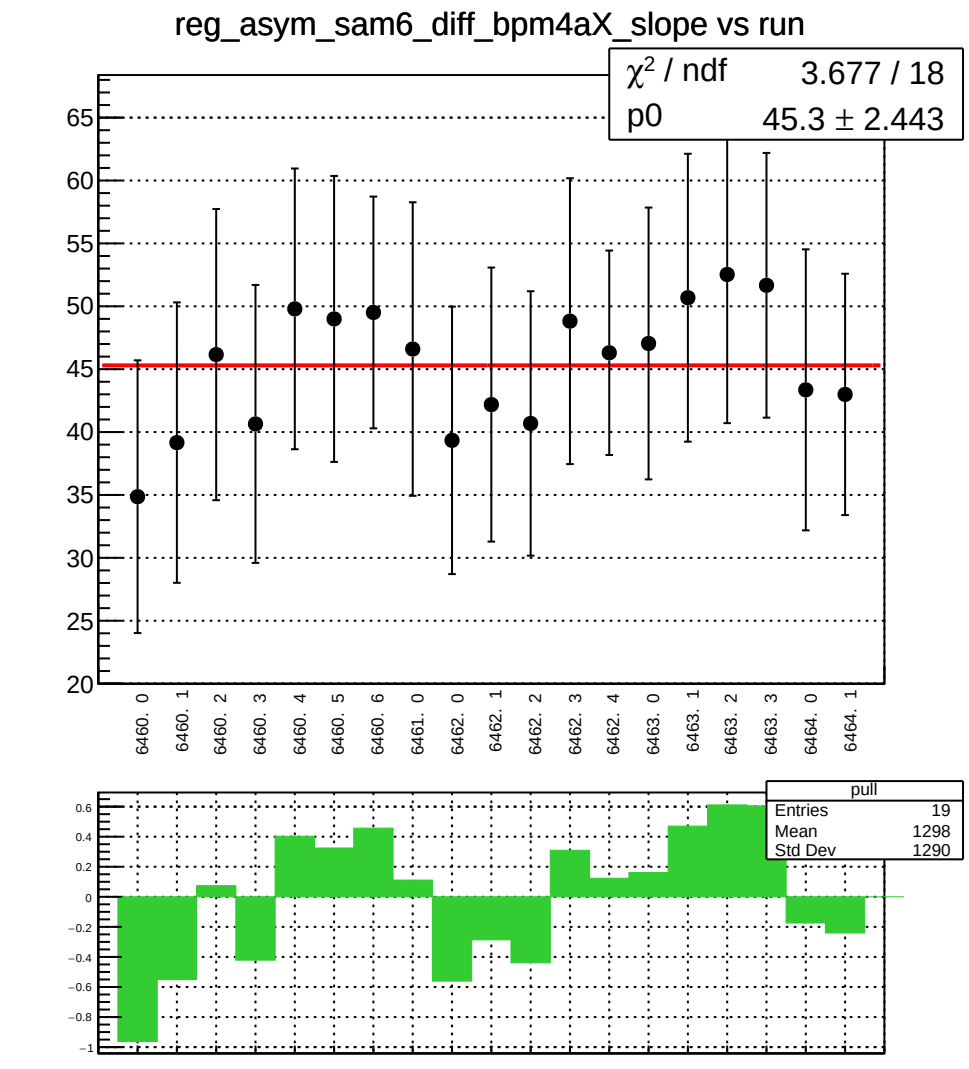

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 0.9172 / 18
p0 53.07 ± 1.787
65
60
55
50
45
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −74.04
Std Dev 86.66
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 19
Mean 0.00332
Std Dev 0.2197
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

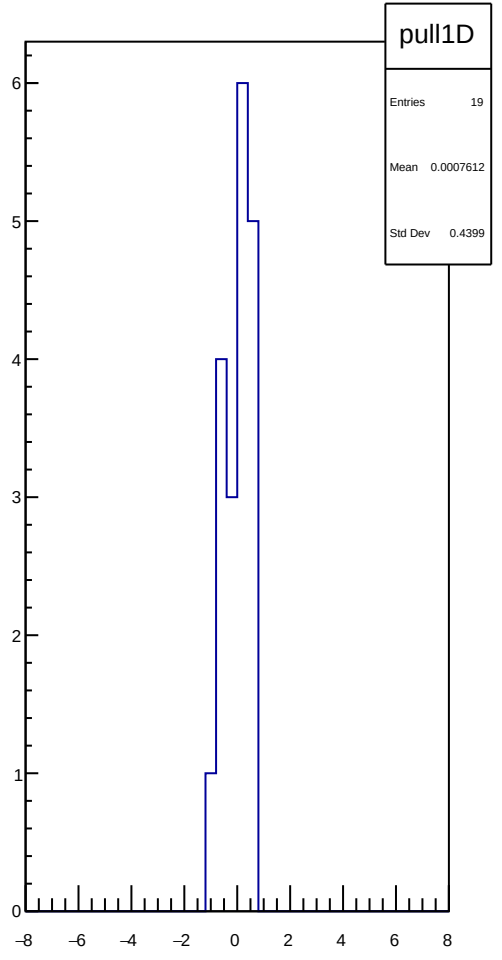

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 0.9043 / 18
p0 0.6458 ± 2.828
20
15
10
5
0
−5
−10
−15
−20
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −147.6
Std Dev 153.7
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 19
Mean 0.002796
Std Dev 0.2181
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

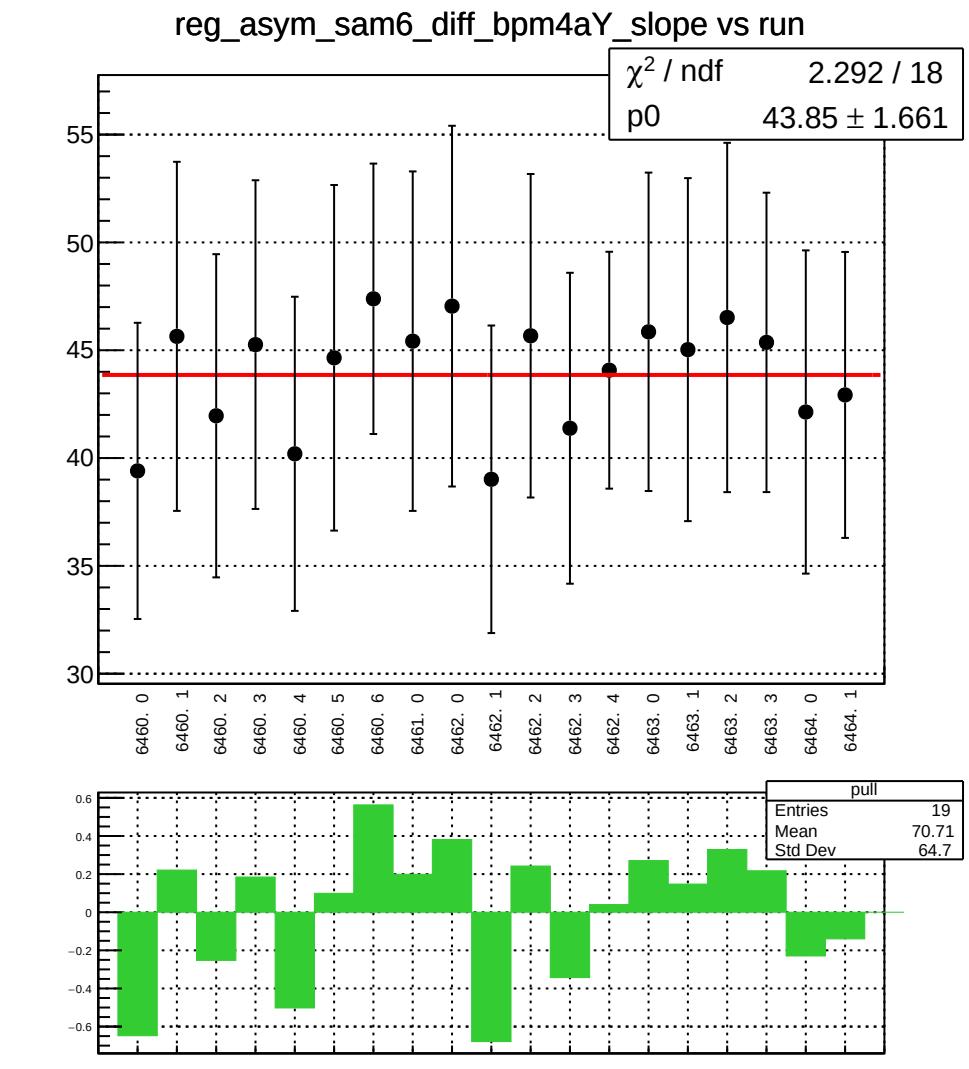

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 1.031 / 18
p0 101.3 ± 1.811
115
110
105
100
95
90
85
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 252
Std Dev 248.2
0.4
0.2
0
−0.2
−0.4
−0.6

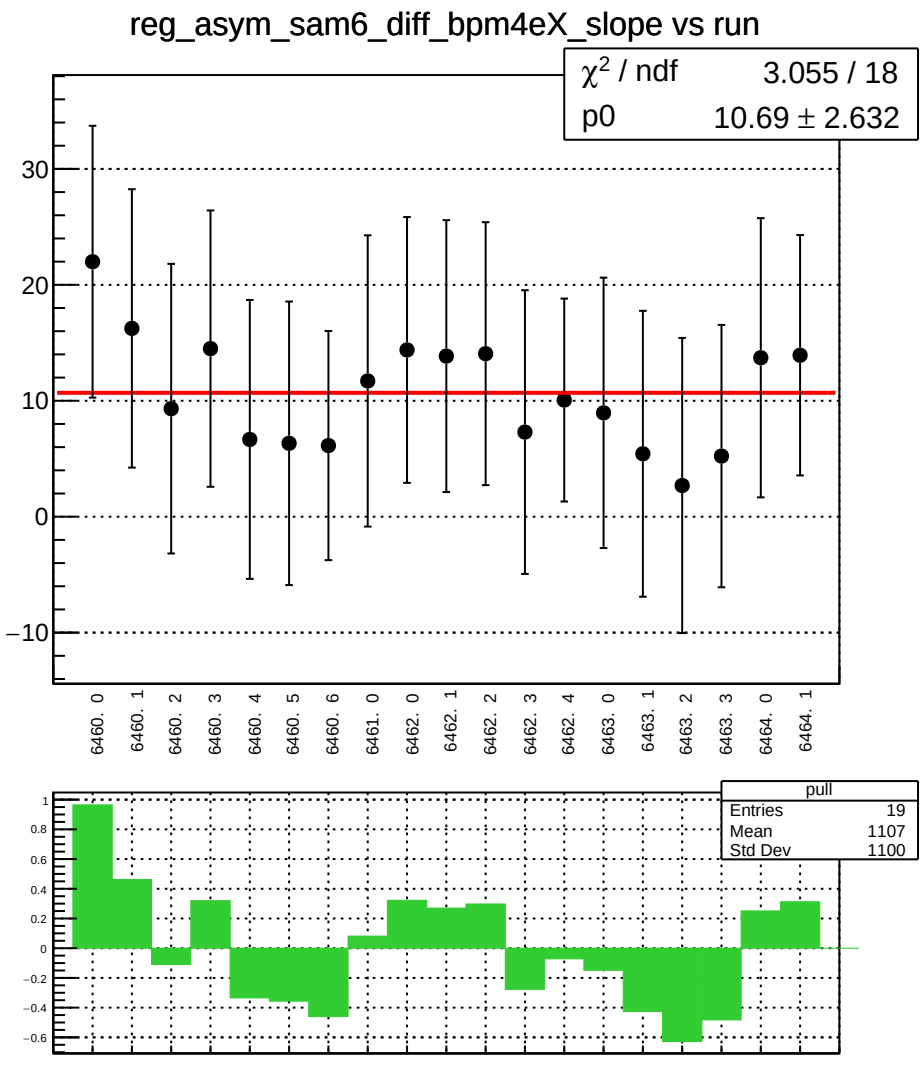

pull1D
Entries 19
Mean −0.0003724
Std Dev 0.2329
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

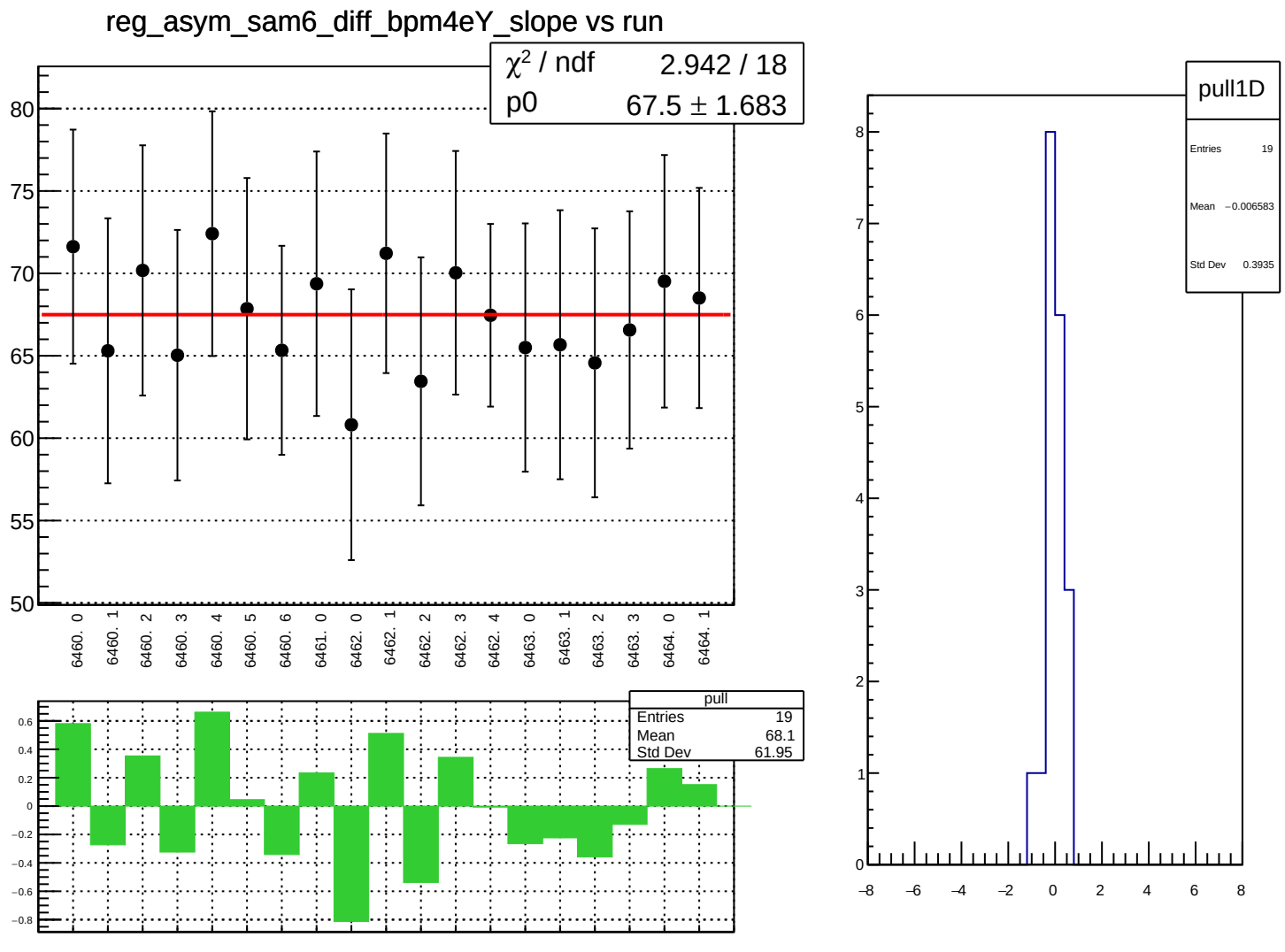

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 1.641 / 18
p0 0.3181± 0.07589
0.8
0.6
0.4
0.2
0
−0.2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −92.63
Std Dev 102.6
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 19
Mean −0.01123
Std Dev 0.2937
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

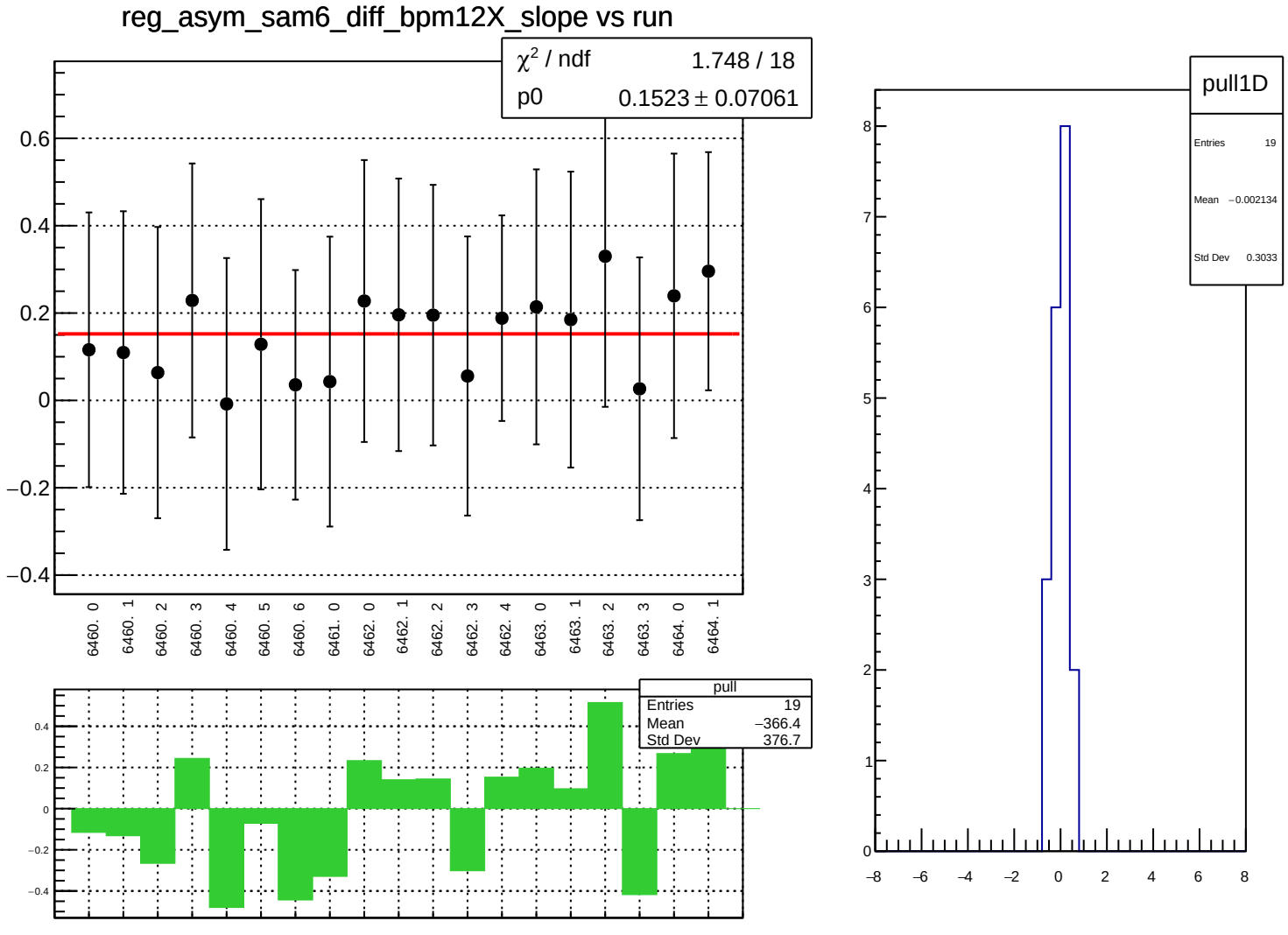

reg_asym_sam6_diff_bpm4aX_slope vs run
χ² / ndf 3.677 / 18
p0 45.3 ± 2.443
65
60
55
50
45
40
35
30
25
20
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 1298
Std Dev 1290
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

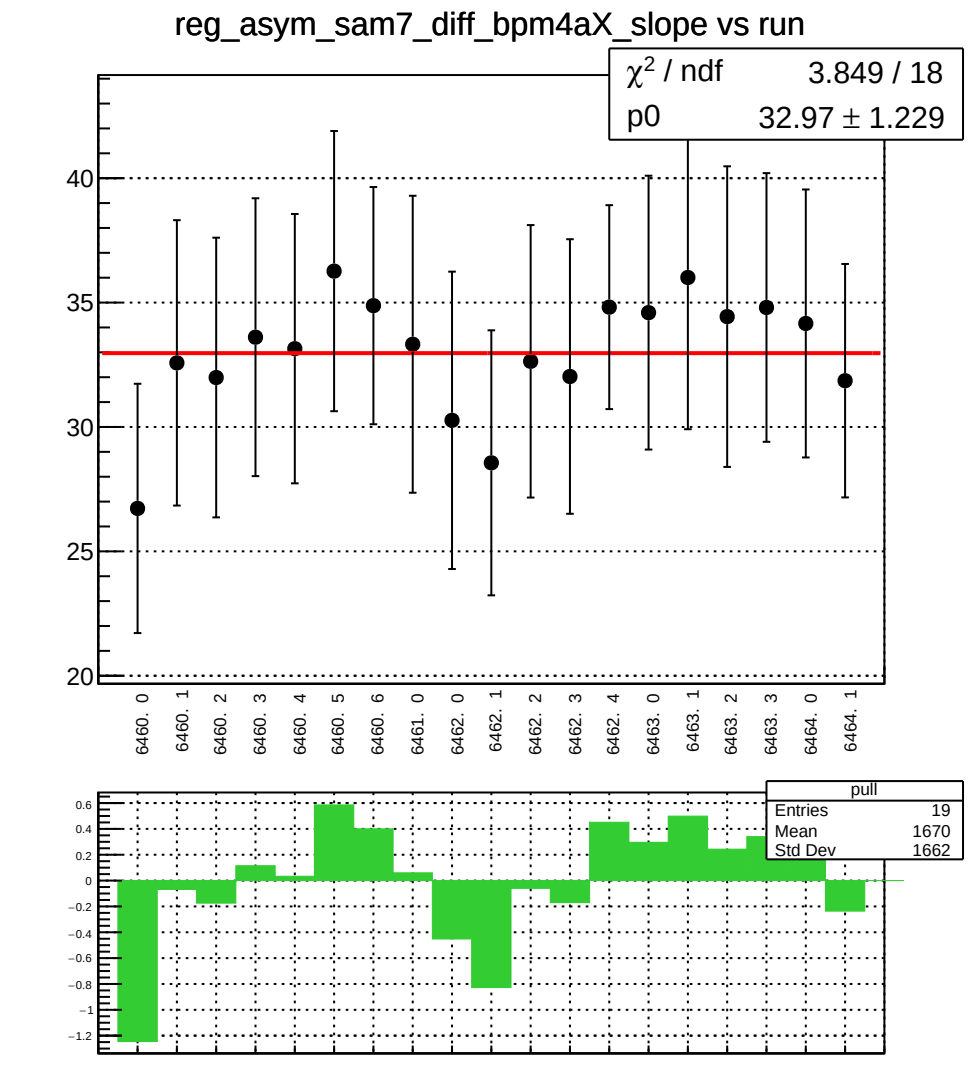

pull1D
Entries 19
Mean 0.0007612
Std Dev 0.4399
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

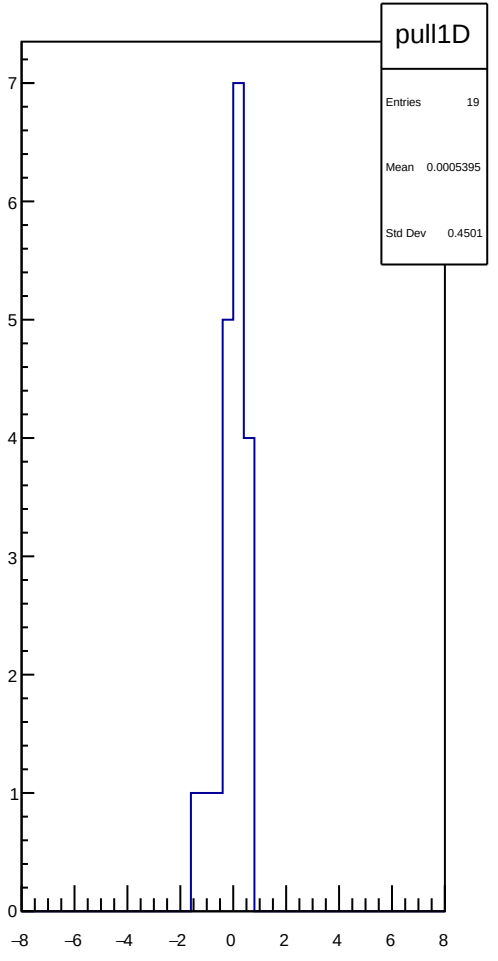

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 2.292 / 18
p0 43.85 ± 1.661
55
50
45
40
35
30
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 70.71
Std Dev 64.7
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 19
Mean 0.005392
Std Dev 0.3473
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

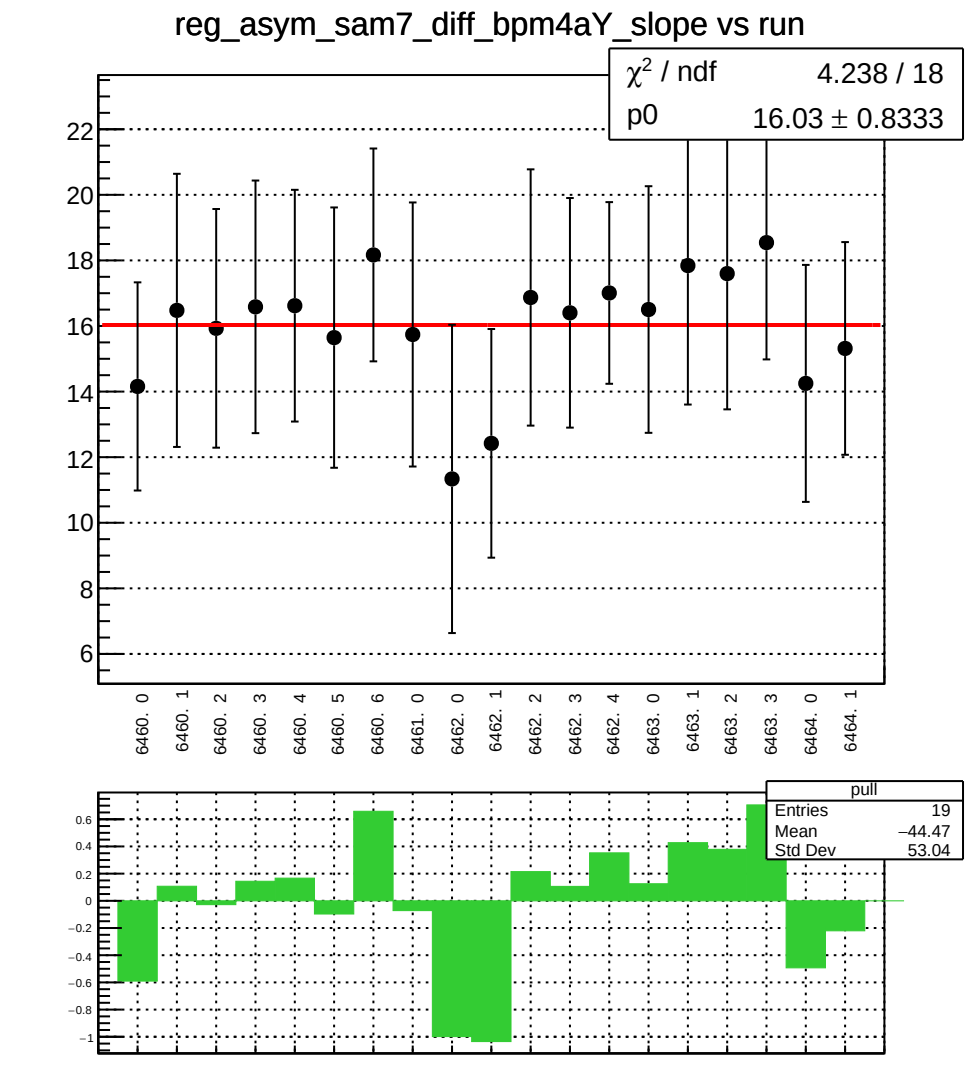

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 3.055 / 18
p0 10.69 ± 2.632
30
20
10
0
−10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 1107
Std Dev 1100
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 19
Mean −0.000722
Std Dev 0.401
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

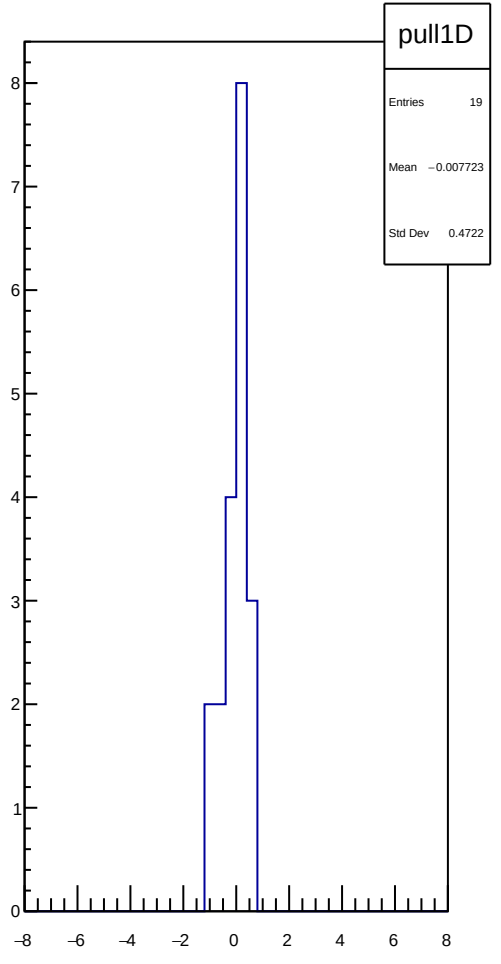

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 2.942 / 18
p0 67.5 ± 1.683
80
75
70
65
60
55
50
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 68.1
Std Dev 61.95
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 19
Mean −0.006583
Std Dev 0.3935
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

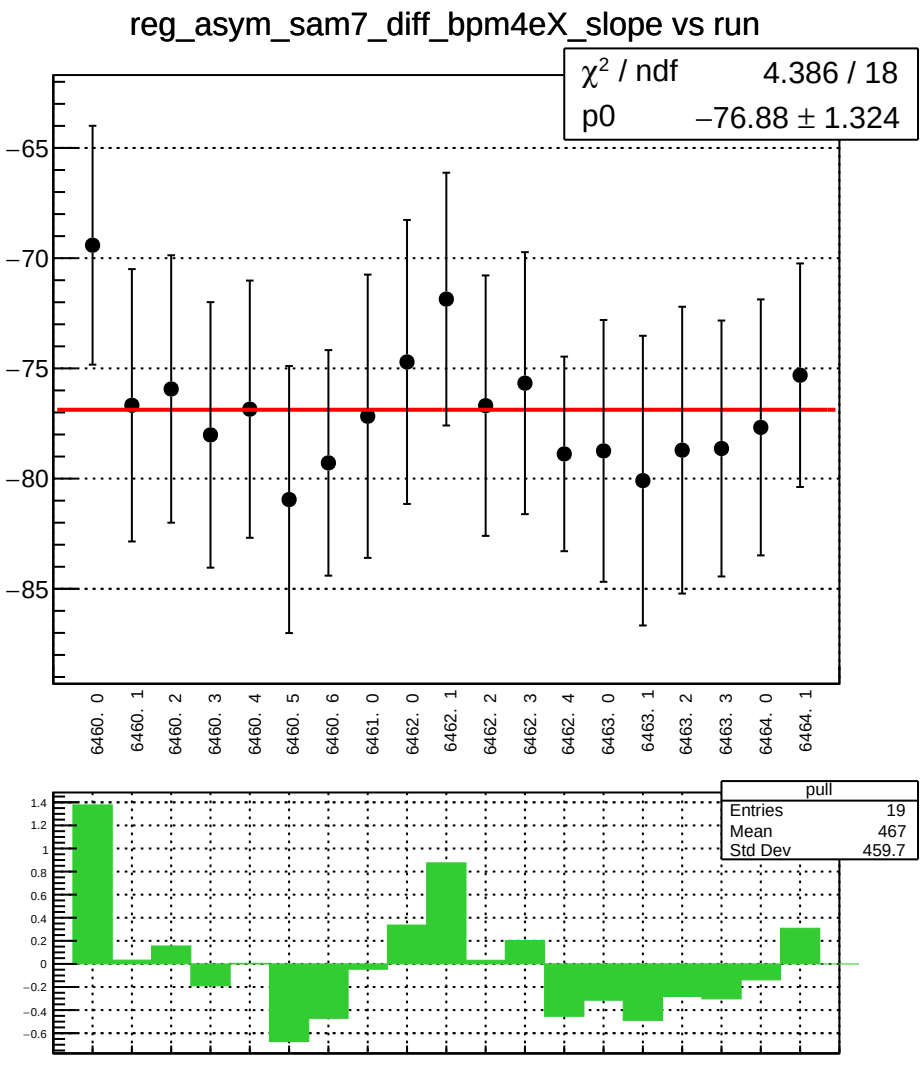

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 1.748 / 18
p0 0.1523 ± 0.07061
0.6
0.4
0.2
0
−0.2
−0.4
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −366.4
Std Dev 376.7
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 19
Mean −0.002134
Std Dev 0.3033
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

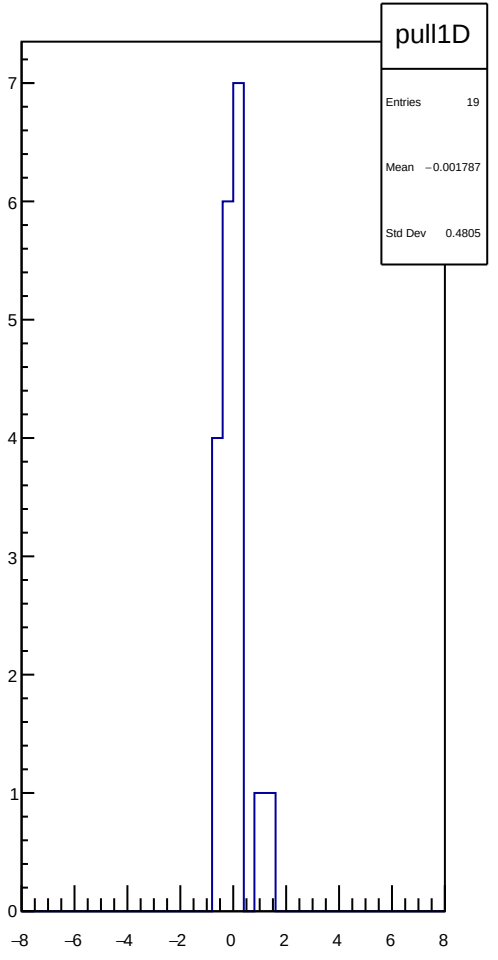

reg_asym_sam7_diff_bpm4aX_slope vs run
χ² / ndf 3.849 / 18
p0 32.97 ± 1.229
40
35
30
25
20
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 1670
Std Dev 1662
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

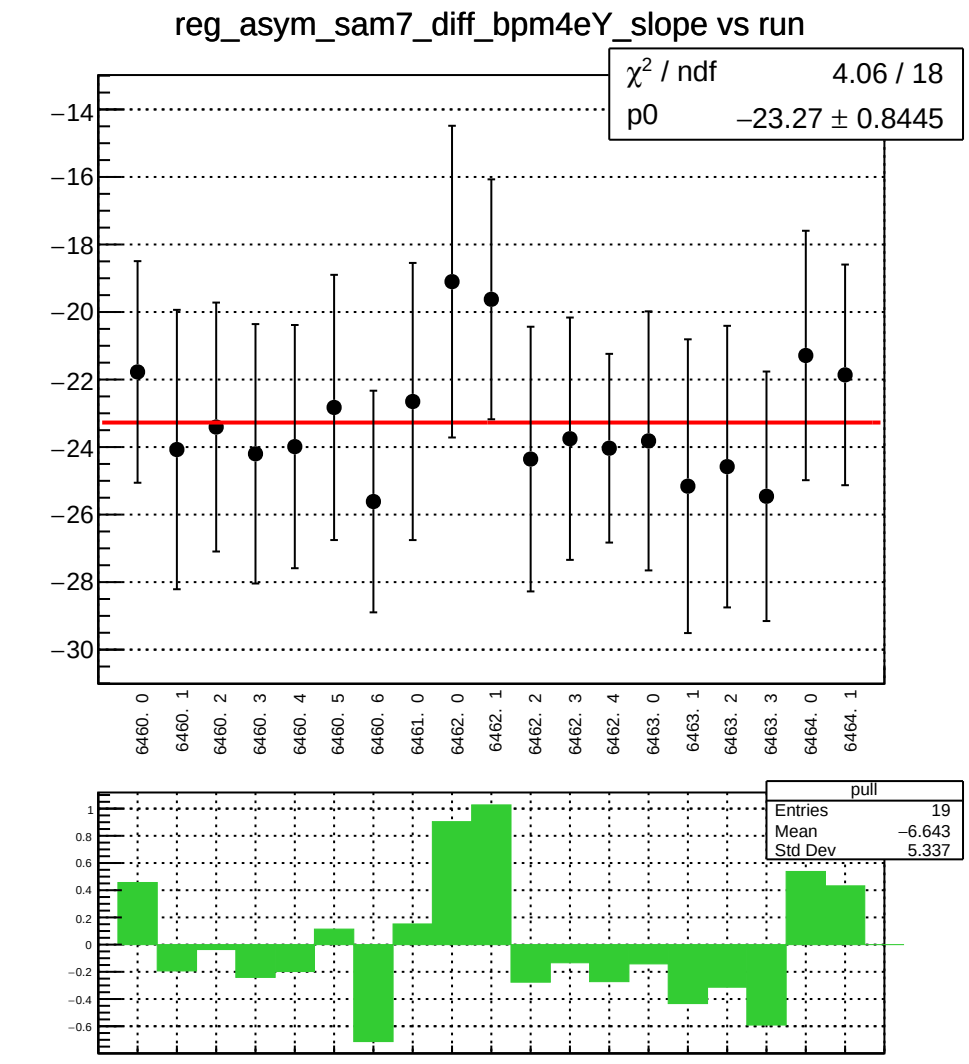

pull1D
Entries 19
Mean 0.0005395
Std Dev 0.4501
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

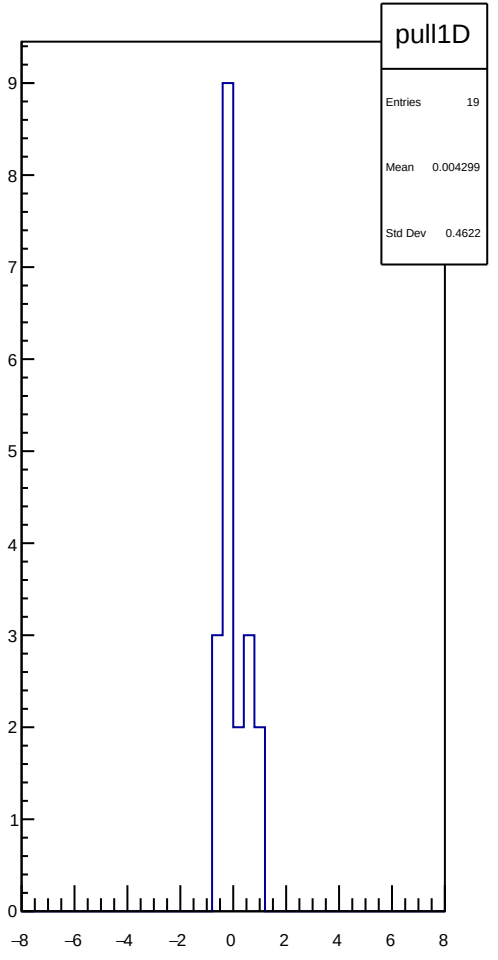

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 4.238 / 18
p0 16.03 ± 0.8333
22
20
18
16
14
12
10
8
6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −44.47
Std Dev 53.04
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

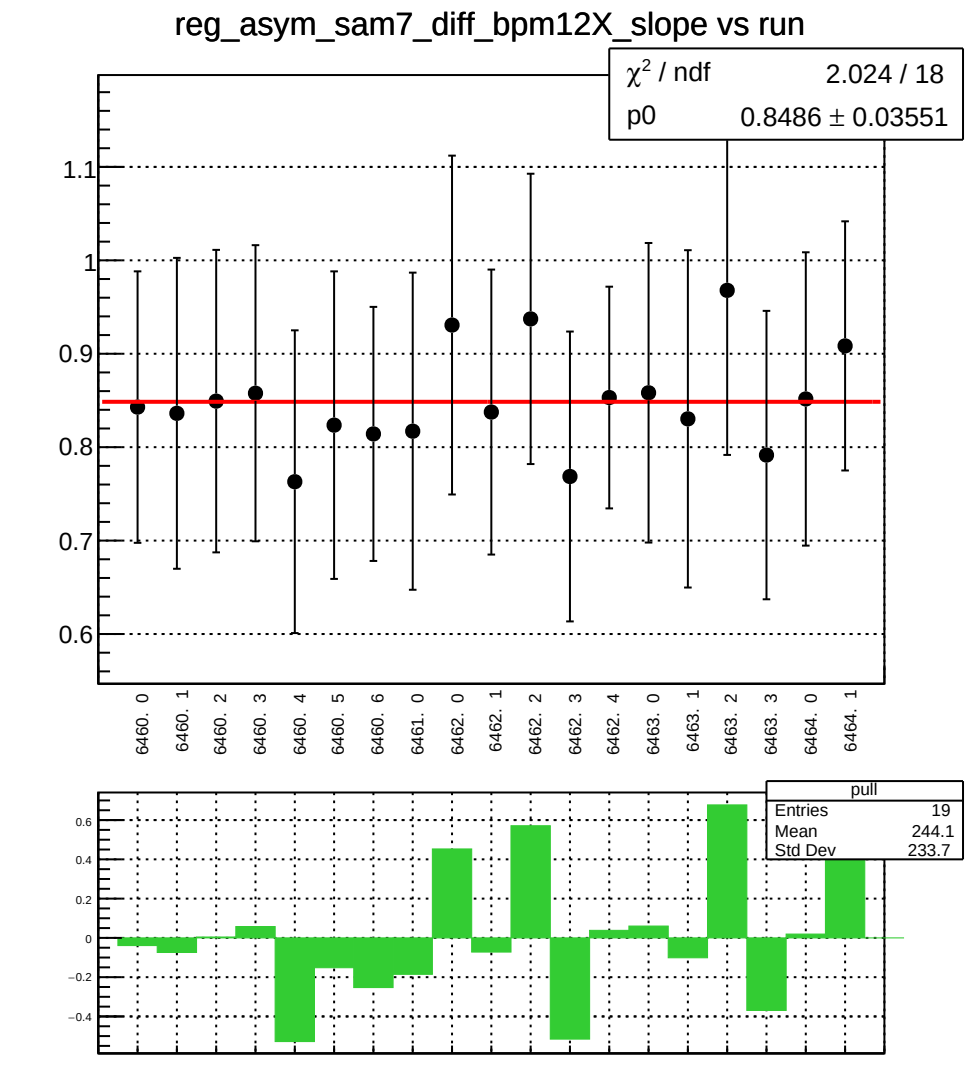

pull1D
Entries 19
Mean −0.007723
Std Dev 0.4722
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

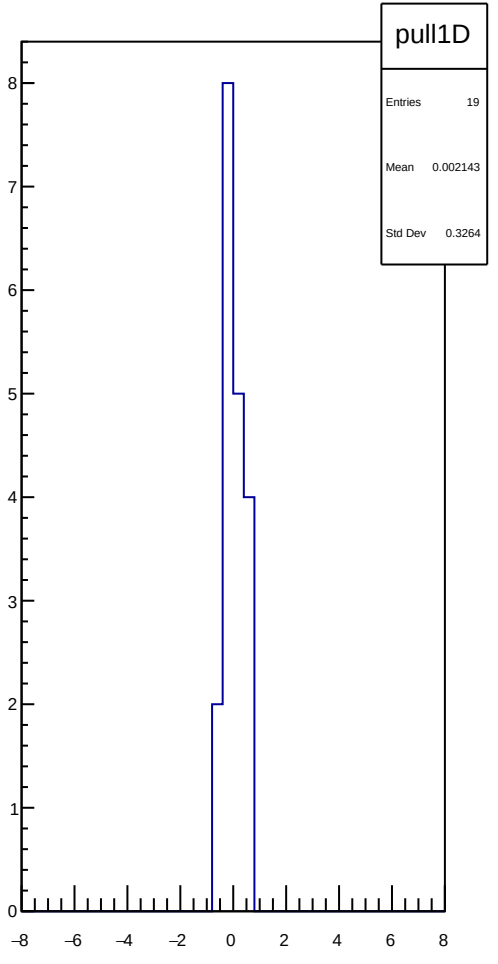

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 4.386 / 18
p0 −76.88 ± 1.324
−65
−70
−75
−80
−85
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 467
Std Dev 459.7
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

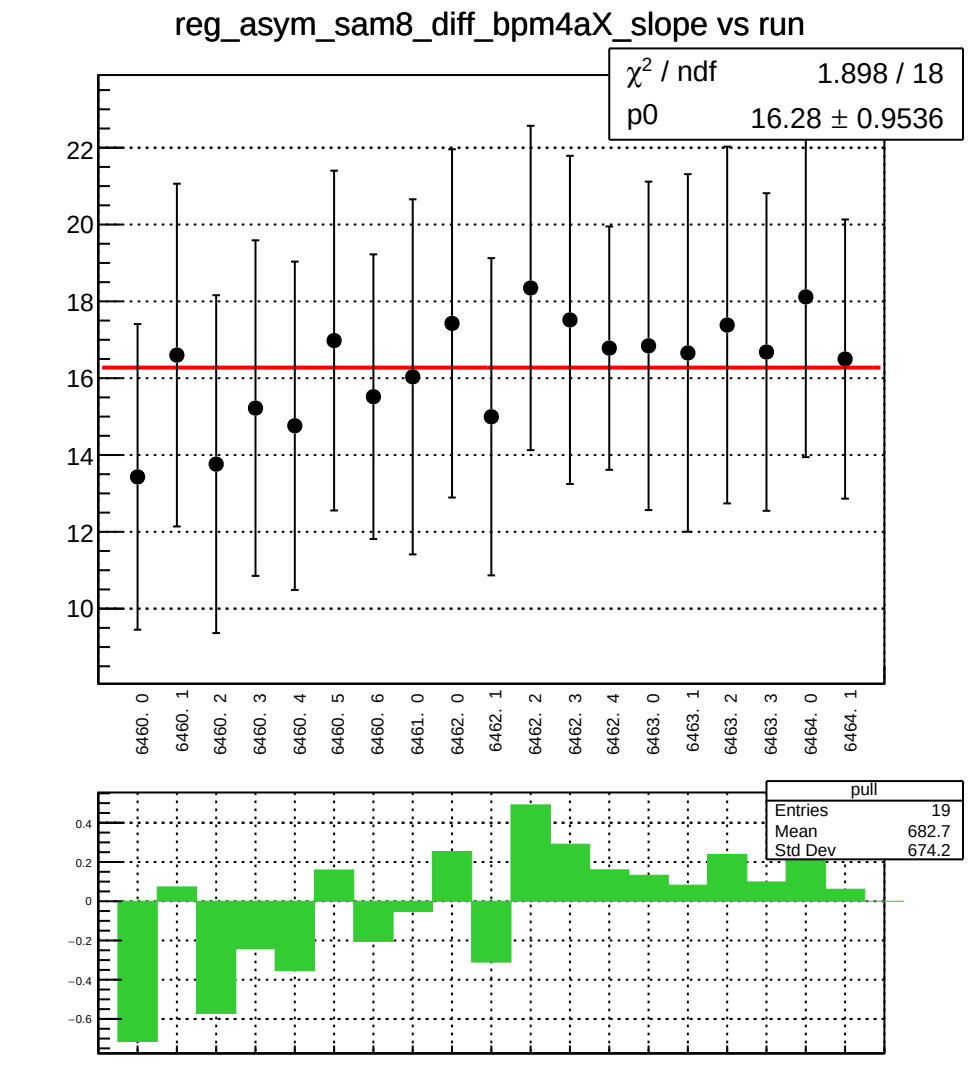

pull1D
Entries 19
Mean −0.001787
Std Dev 0.4805
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

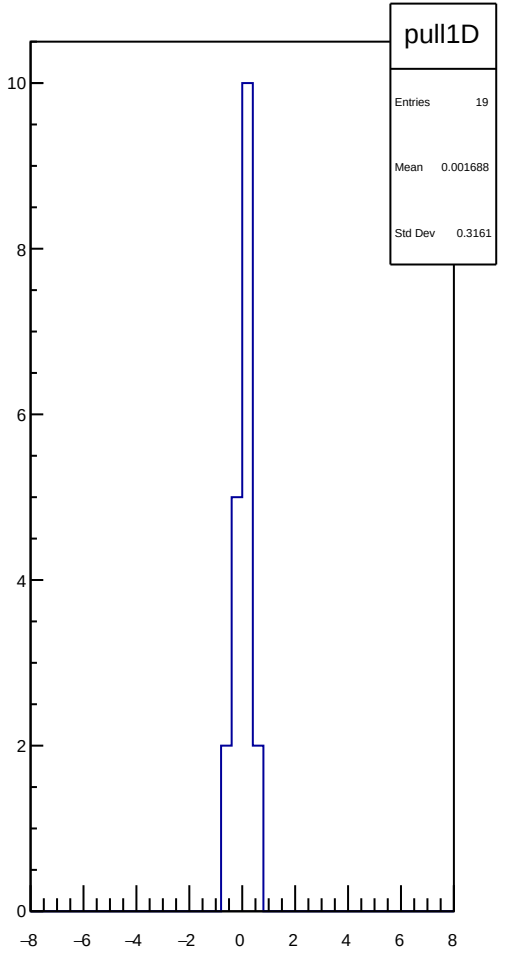

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 4.06 / 18
p0 −23.27 ± 0.8445
−14
−16
−18
−20
−22
−24
−26
−28
−30
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −6.643
Std Dev 5.337
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

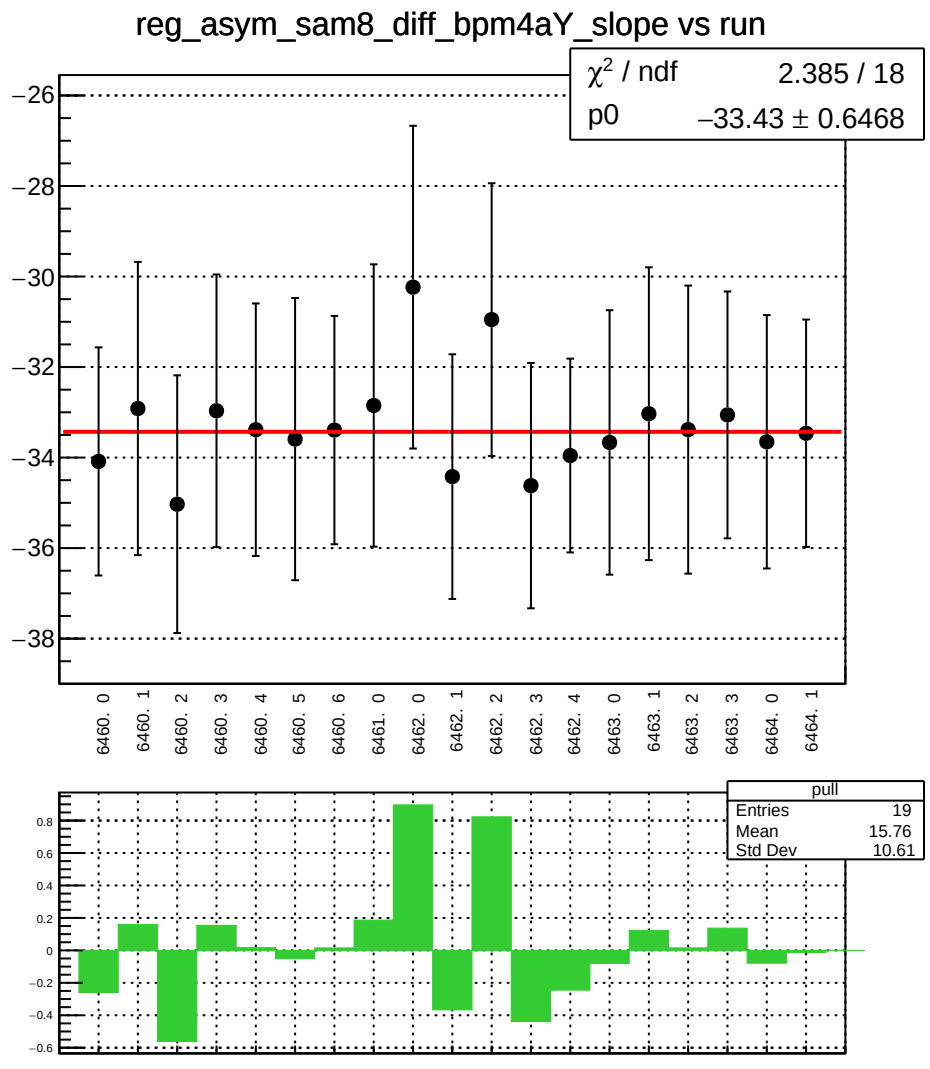

pull1D
Entries 19
Mean 0.004299
Std Dev 0.4622
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

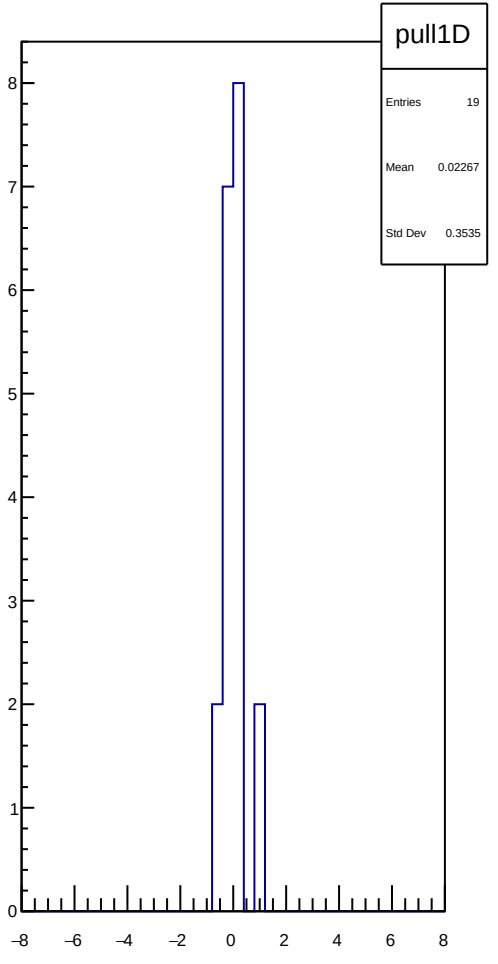

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 2.024 / 18
p0 0.8486 ± 0.03551
1.1
1
0.9
0.8
0.7
0.6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 244.1
Std Dev 233.7
0.6
0.4
0.2
0
−0.2
−0.4

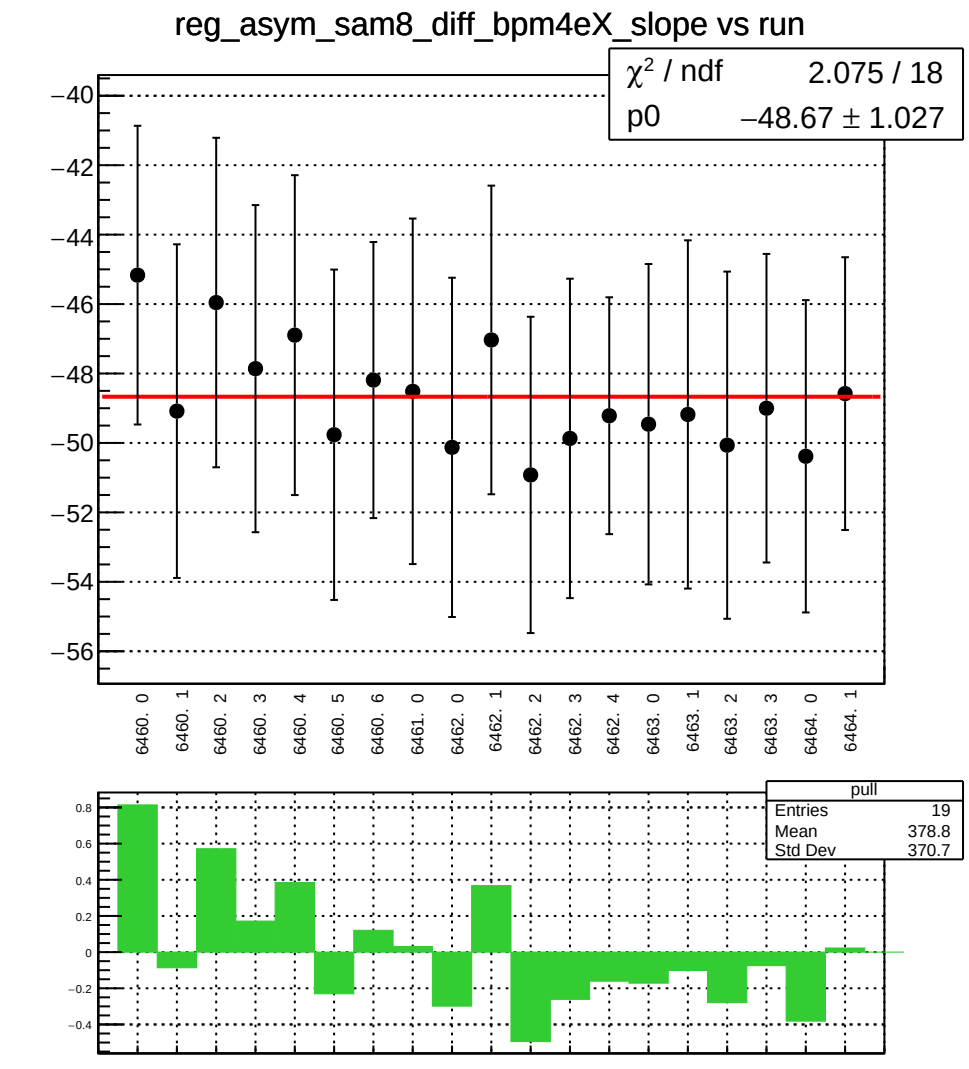

pull1D
Entries 19
Mean 0.002143
Std Dev 0.3264
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

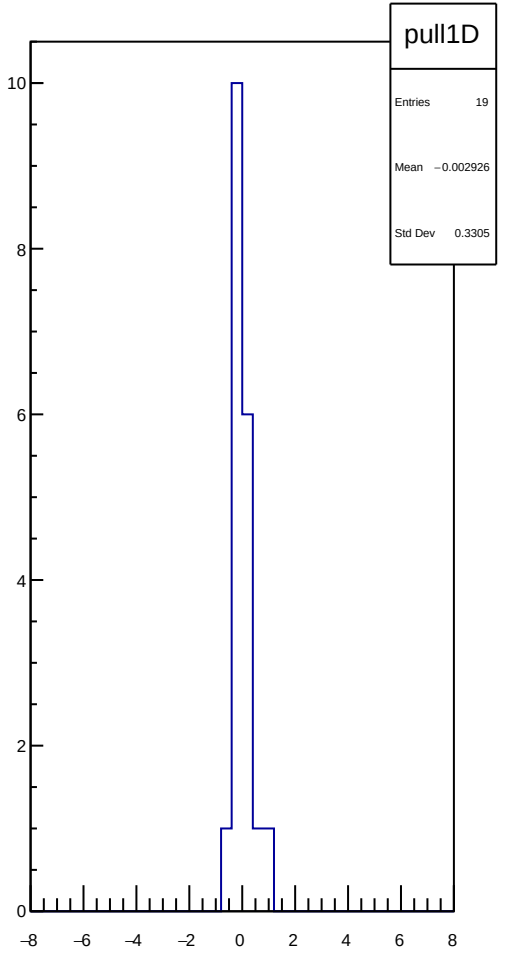

reg_asym_sam8_diff_bpm4aX_slope vs run
χ² / ndf 1.898 / 18
p0 16.28 ± 0.9536
22
20
18
16
14
12
10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 682.7
Std Dev 674.2
0.4
0.2
0
−0.2
−0.4
−0.6

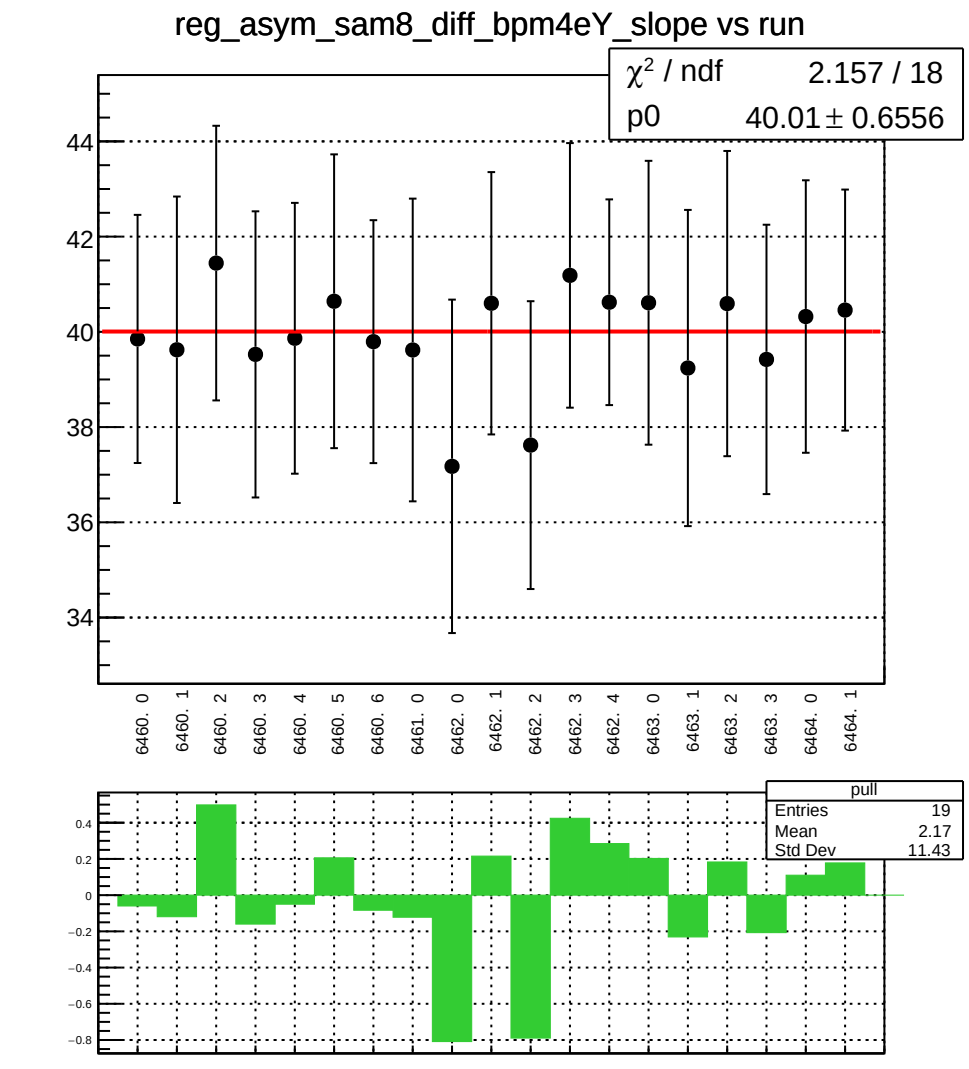

pull1D
Entries 19
Mean 0.001688
Std Dev 0.3161
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

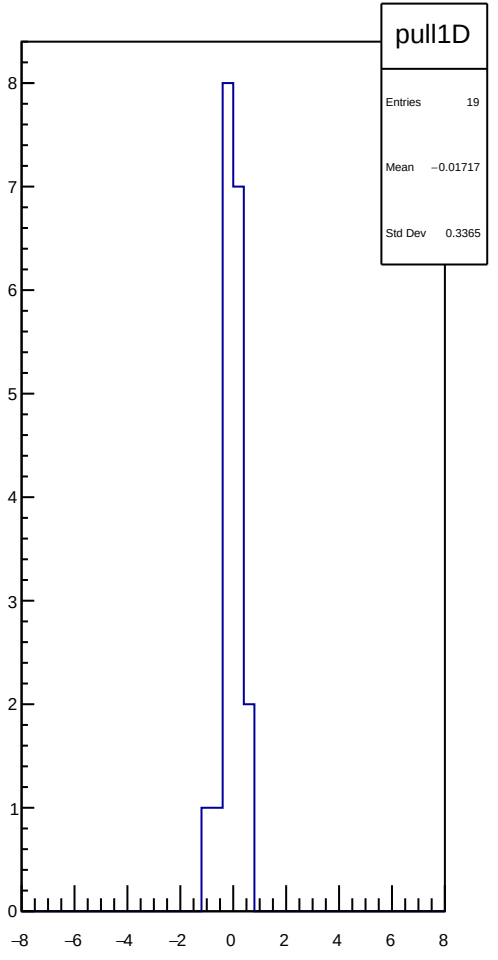

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 2.385 / 18
p0 −33.43 ± 0.6468
−26
−28
−30
−32
−34
−36
−38
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 15.76
Std Dev 10.61
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

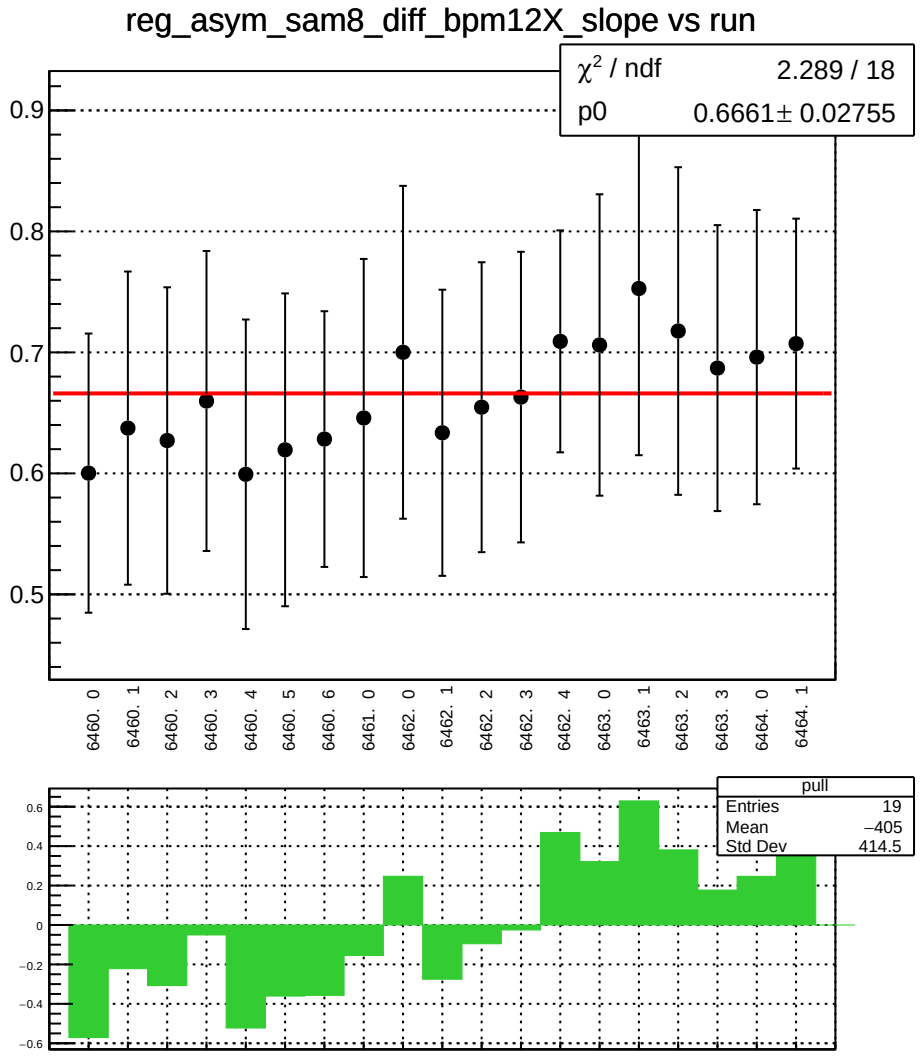

pull1D
Entries 19
Mean 0.02267
Std Dev 0.3535
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

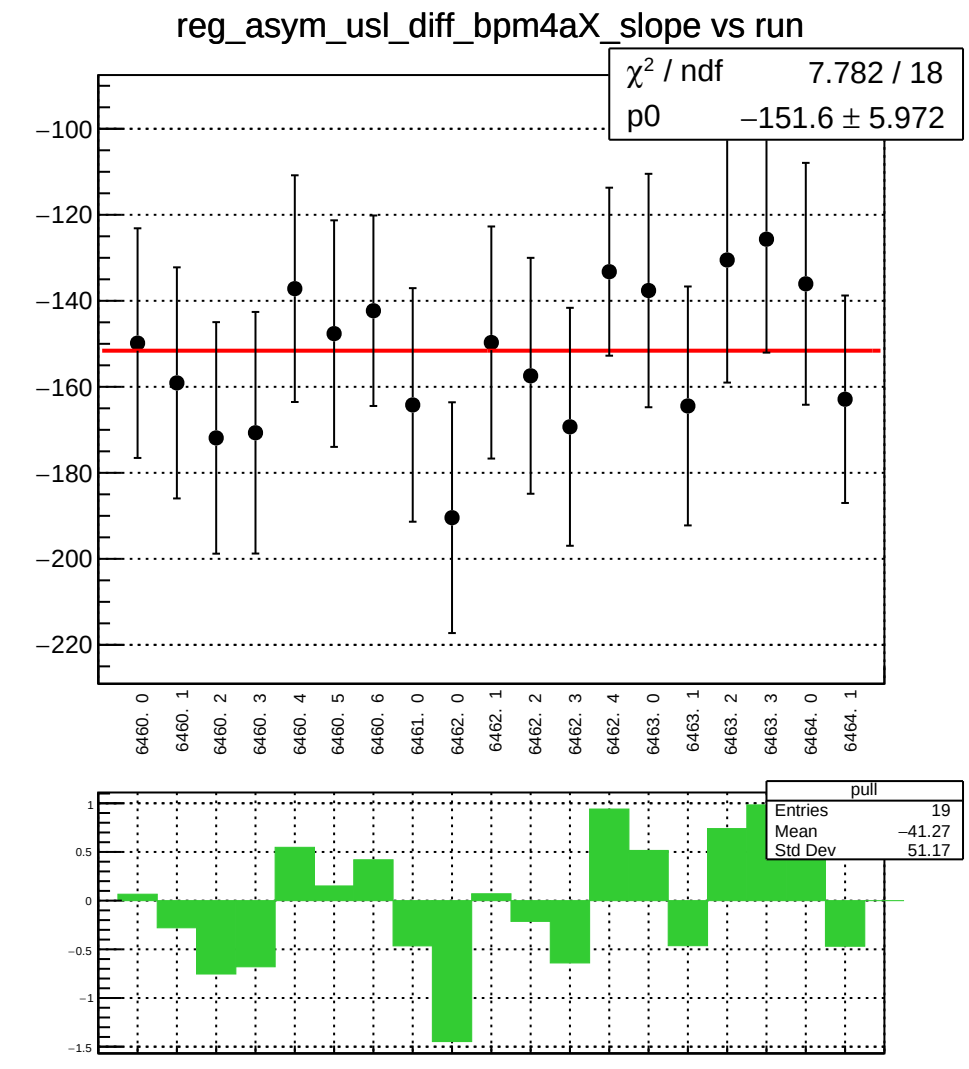

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 2.075 / 18
p0 −48.67 ± 1.027
−40
−42
−44
−46
−48
−50
−52
−54
−56
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 378.8
Std Dev 370.7
0.8
0.6
0.4
0.2
0
−0.2
−0.4

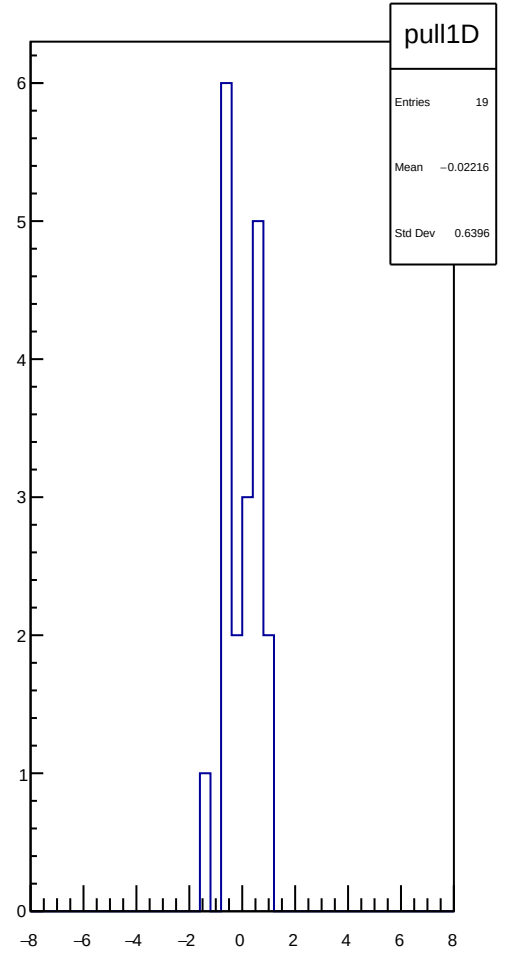

pull1D
Entries 19
Mean −0.002926
Std Dev 0.3305
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

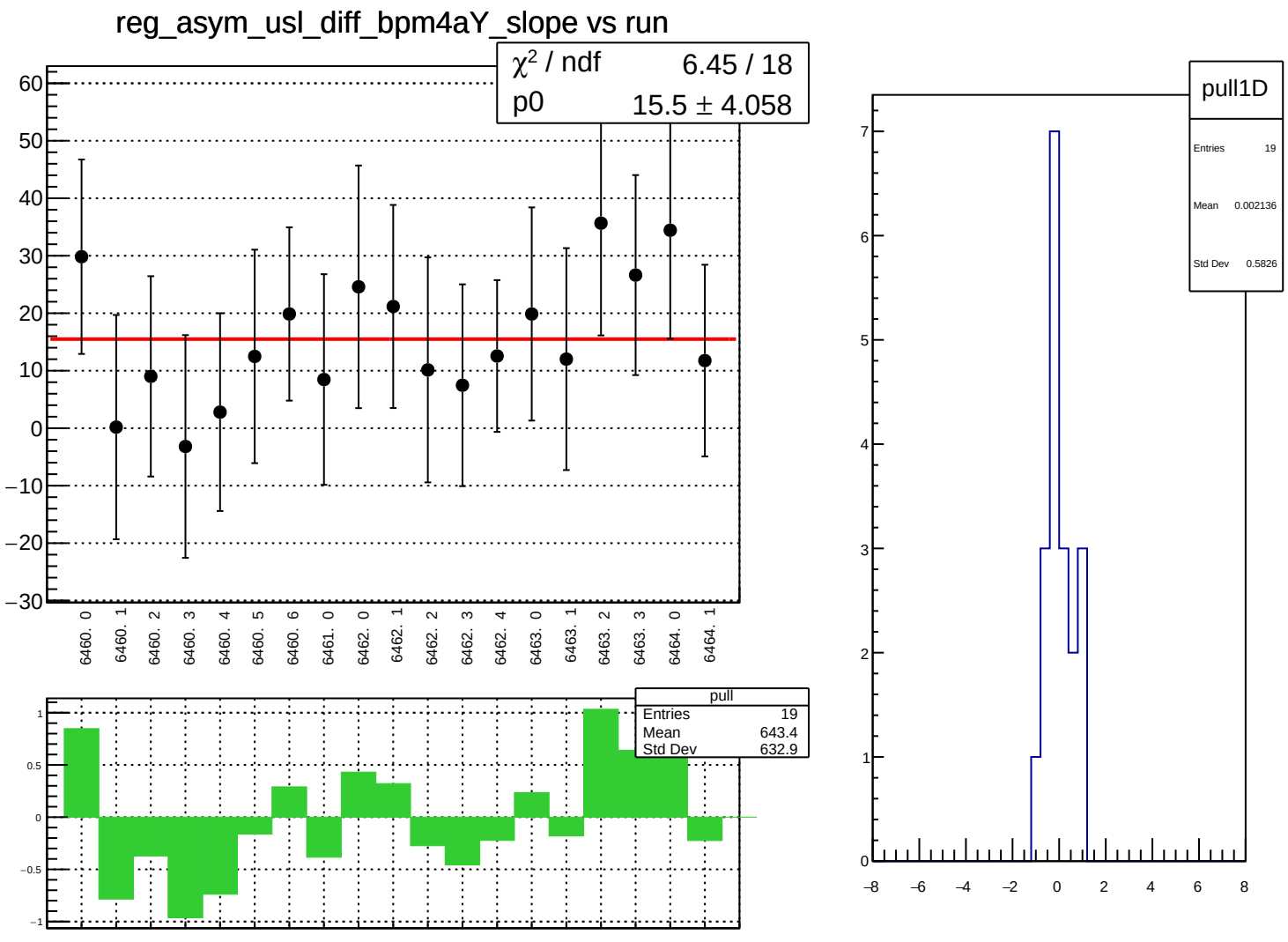

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 2.157 / 18
p0 40.01 ± 0.6556
44
42
40
38
36
34
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 2.17
Std Dev 11.43
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

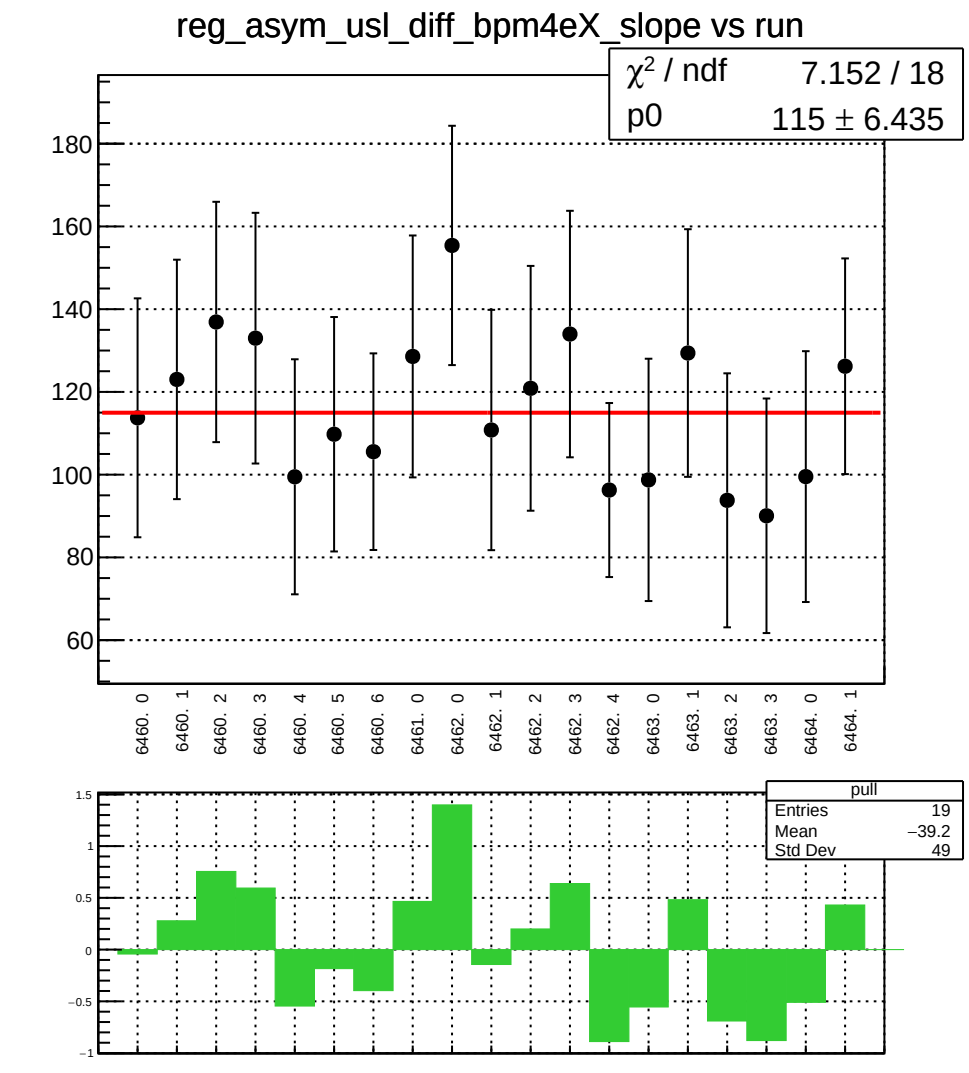

pull1D
Entries 19
Mean −0.01717
Std Dev 0.3365
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

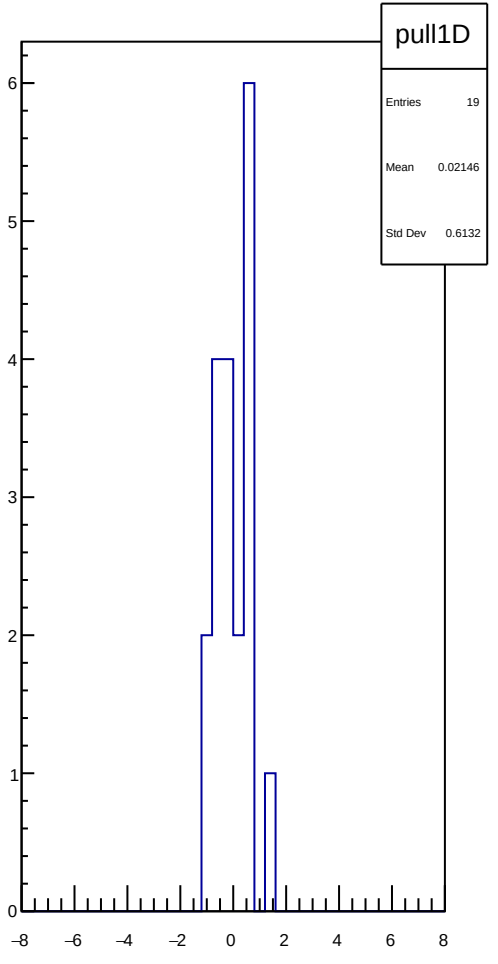

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 2.289 / 18
p0 0.6661± 0.02755
0.9
0.8
0.7
0.6
0.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −405
Std Dev 414.5
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 19
Mean −0.003725
Std Dev 0.347
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

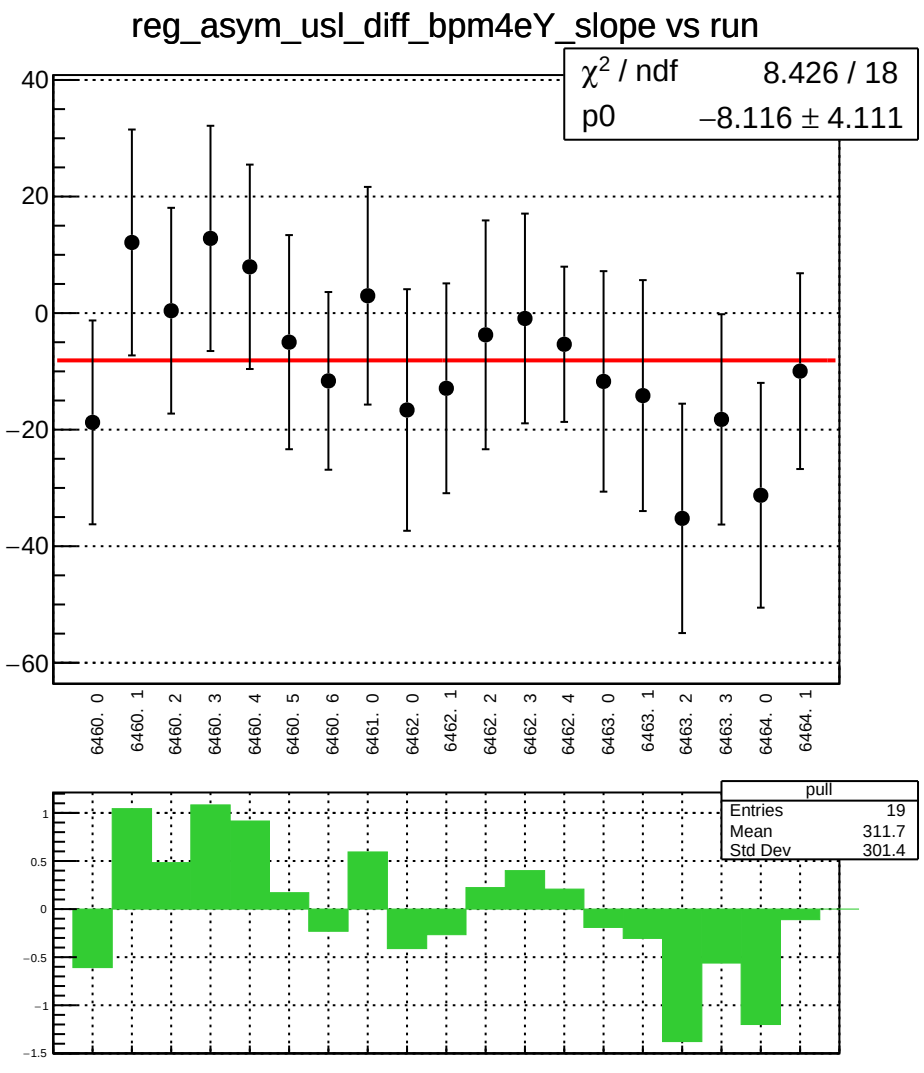

reg_asym_usl_diff_bpm4aX_slope vs run
χ² / ndf 7.782 / 18
p0 −151.6 ± 5.972
−100
−120
−140
−160
−180
−200
−220
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −41.27
Std Dev 51.17
1
0.5
0
−0.5
−1
−1.5

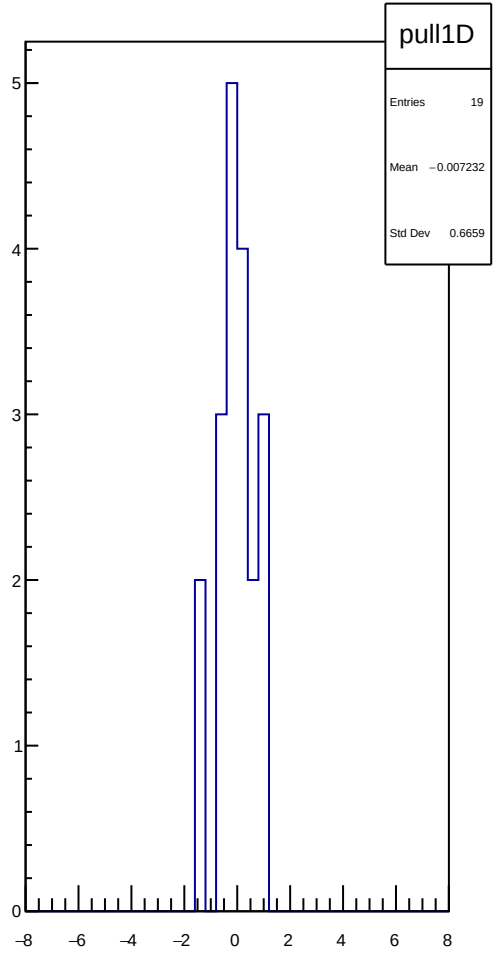

pull1D
Entries 19
Mean −0.02216
Std Dev 0.6396
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

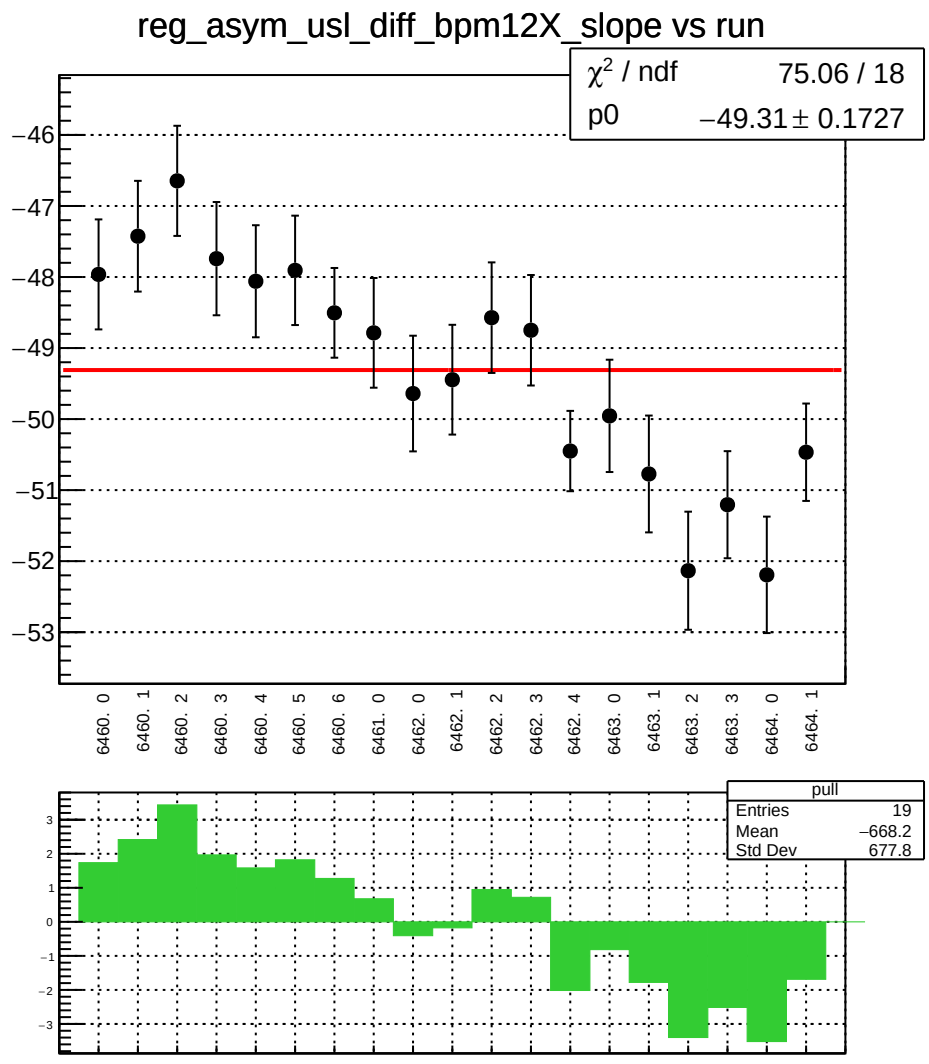

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 6.45 / 18
p0 15.5 ± 4.058
60
50
40
30
20
10
0
−10
−20
−30
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 643.4
Std Dev 632.9
1
0.5
0
−0.5
−1
pull1D
Entries 19
Mean 0.002136
Std Dev 0.5826
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

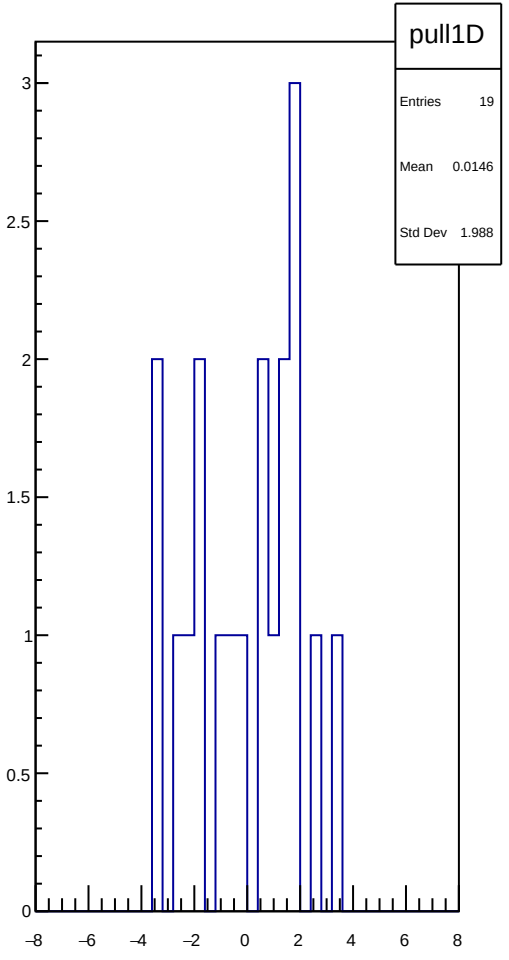

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 7.152 / 18
p0 115 ± 6.435
180
160
140
120
100
80
60
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −39.2
Std Dev 49
1.5
1
0.5
0
−0.5
−1

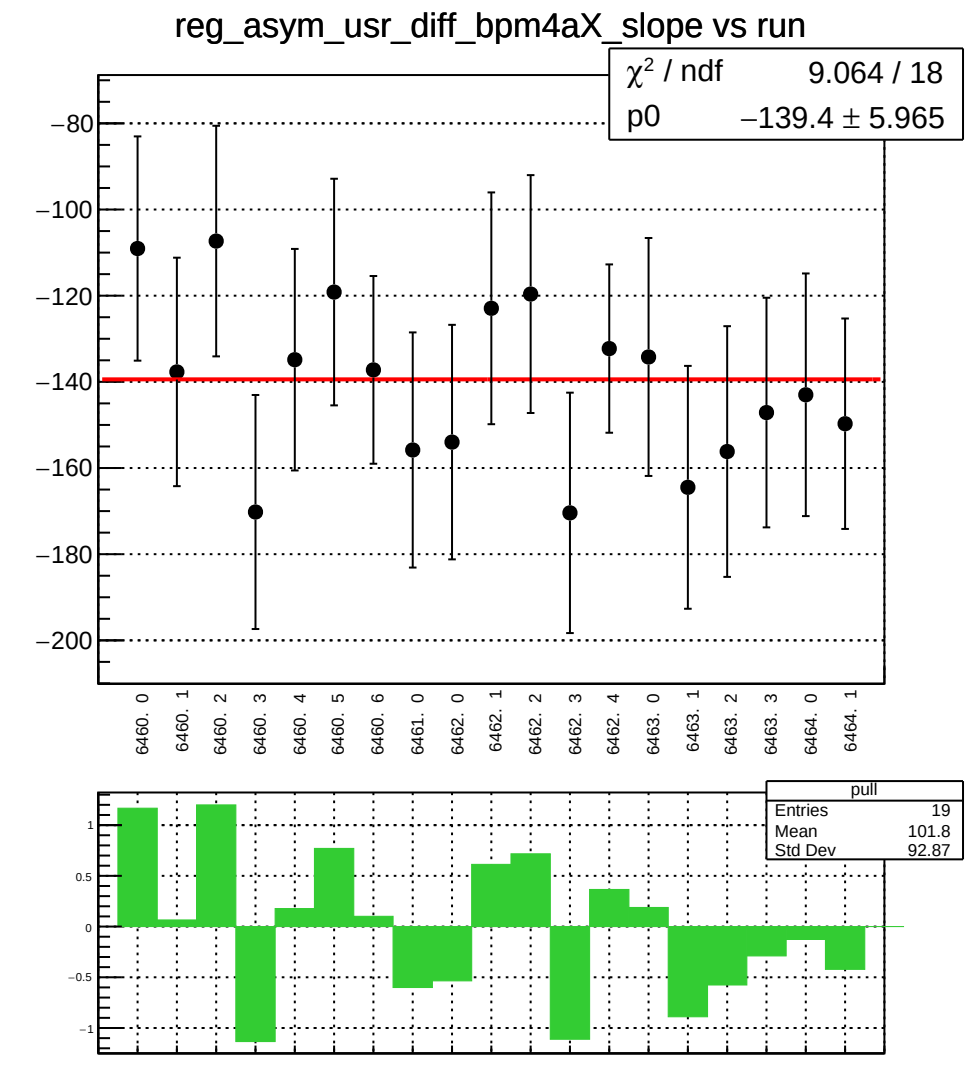

pull1D
Entries 19
Mean 0.02146
Std Dev 0.6132
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

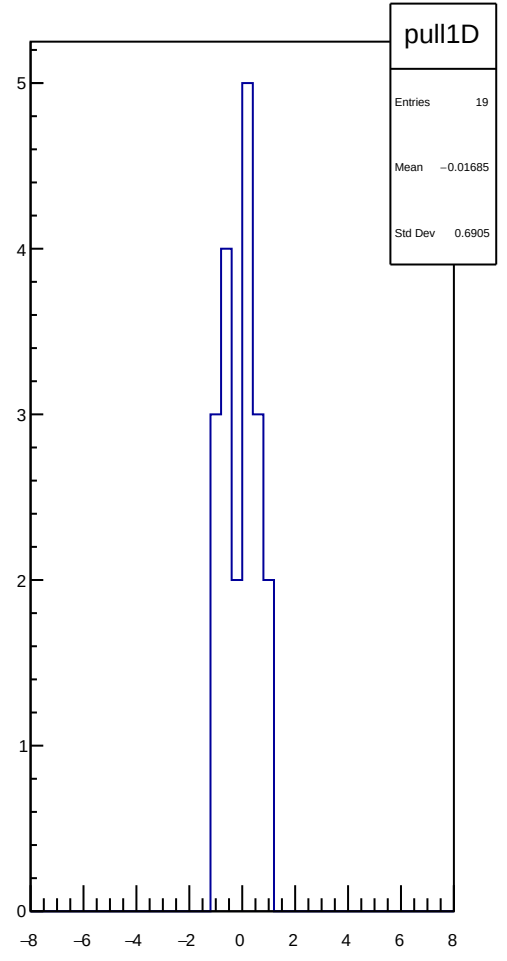

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 8.426 / 18
p0 −8.116 ± 4.111
40
20
0
−20
−40
−60
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 311.7
Std Dev 301.4
1
0.5
0
−0.5
−1
−1.5

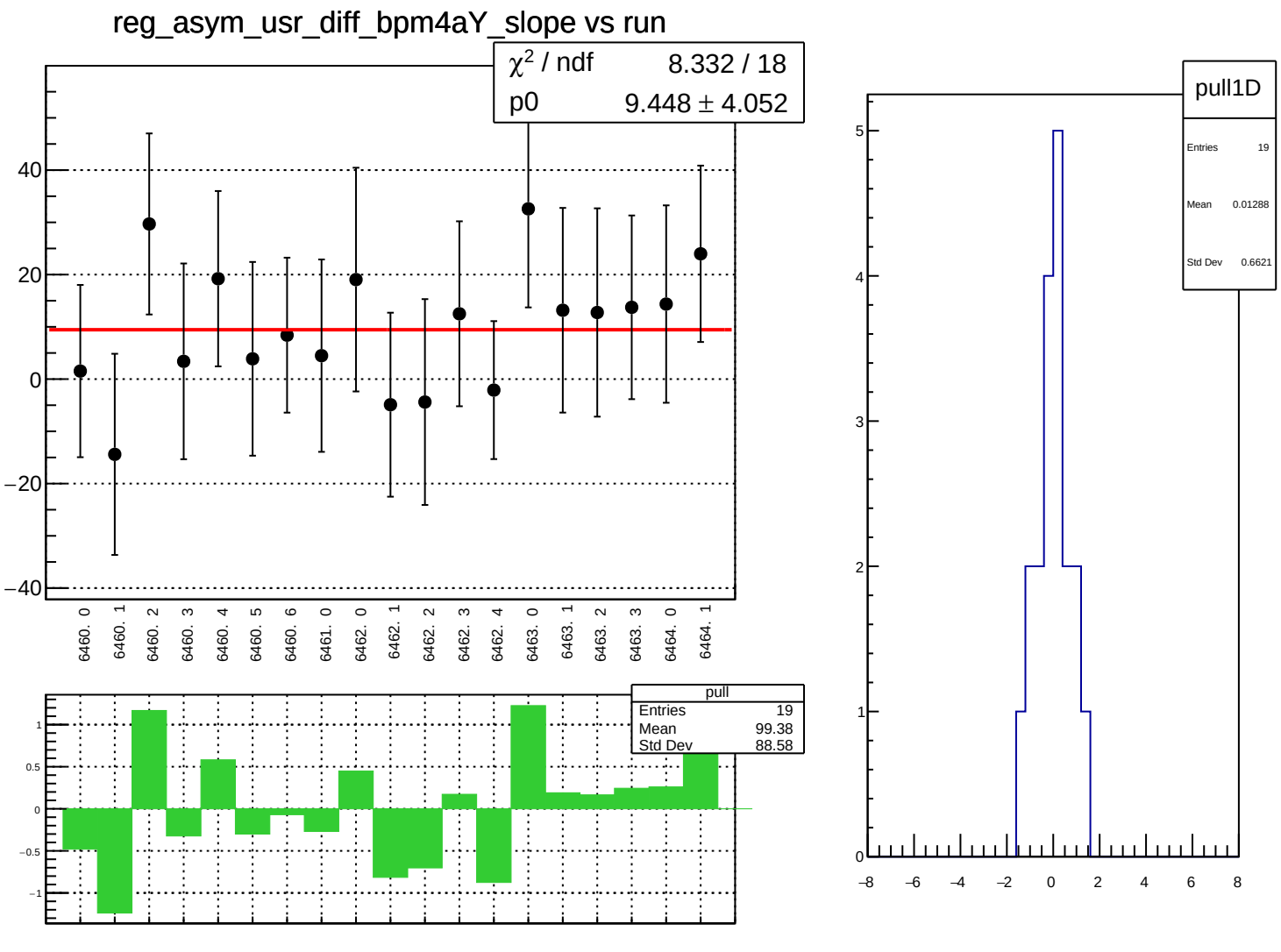

pull1D
Entries 19
Mean −0.007232
Std Dev 0.6659
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

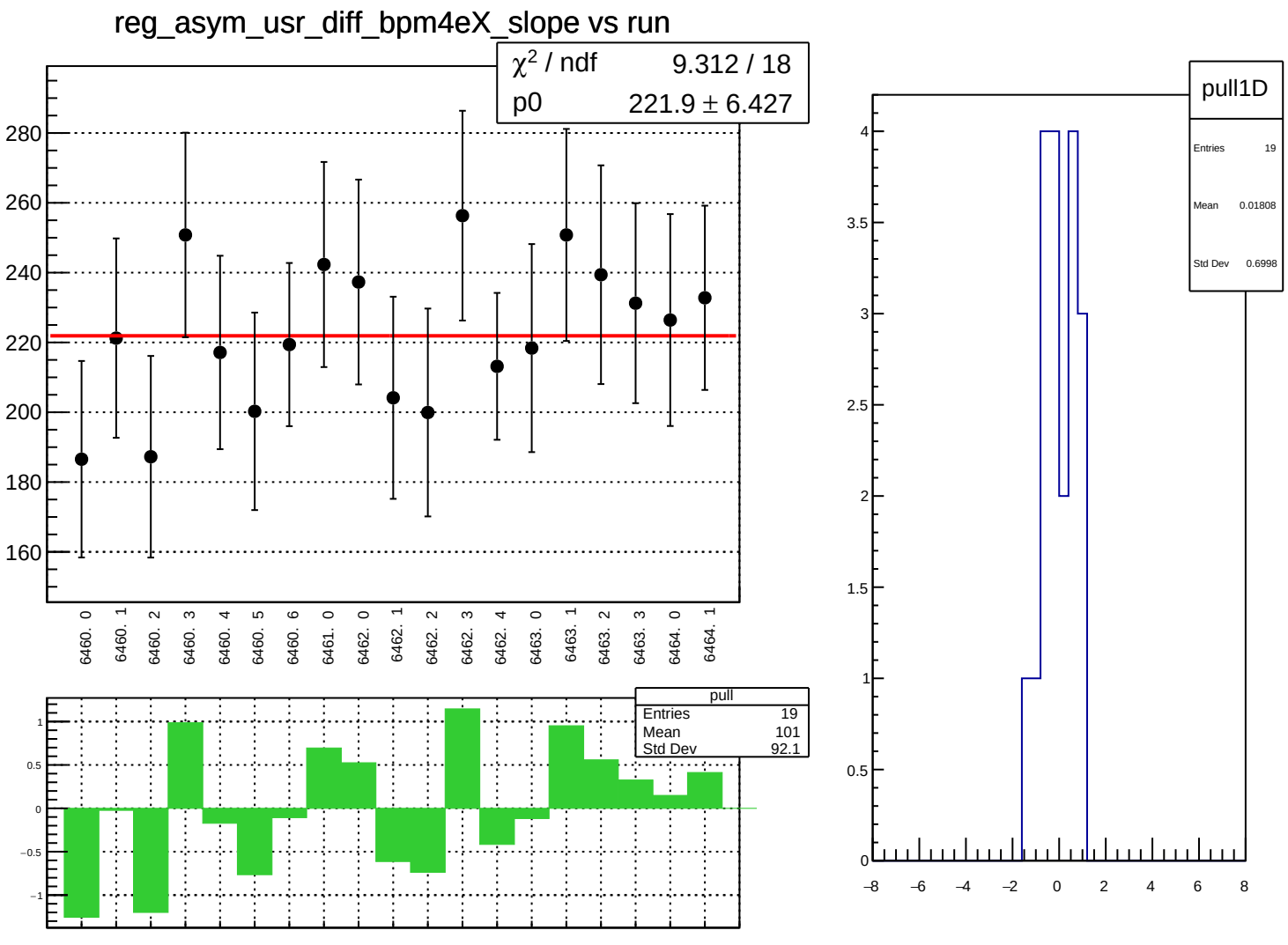

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 75.06 / 18
p0 −49.31 ± 0.1727
−46
−47
−48
−49
−50
−51
−52
−53
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −668.2
Std Dev 677.8
3
2
1
0
−1
−2
−3

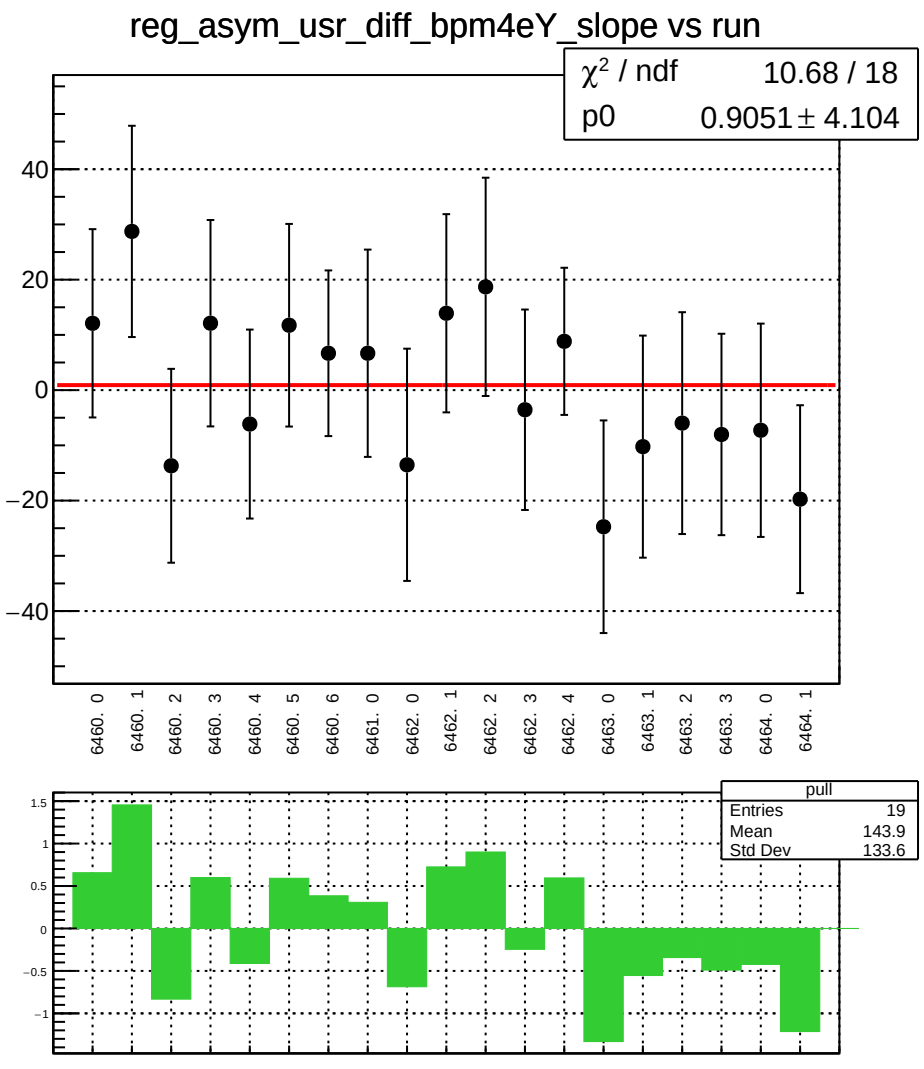

pull1D
Entries 19
Mean 0.0146
Std Dev 1.988
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

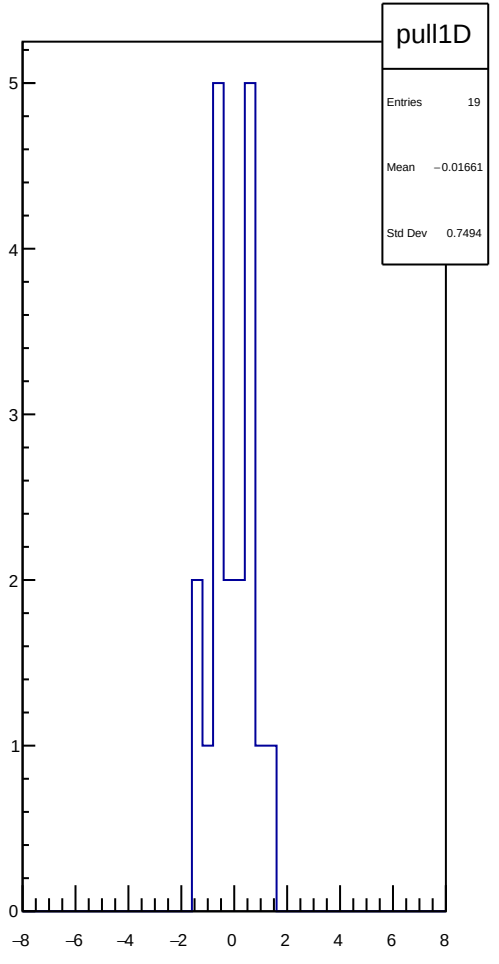

reg_asym_usr_diff_bpm4aX_slope vs run
χ² / ndf 9.064 / 18
p0 −139.4 ± 5.965
−80
−100
−120
−140
−160
−180
−200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 101.8
Std Dev 92.87
1
0.5
0
−0.5
−1

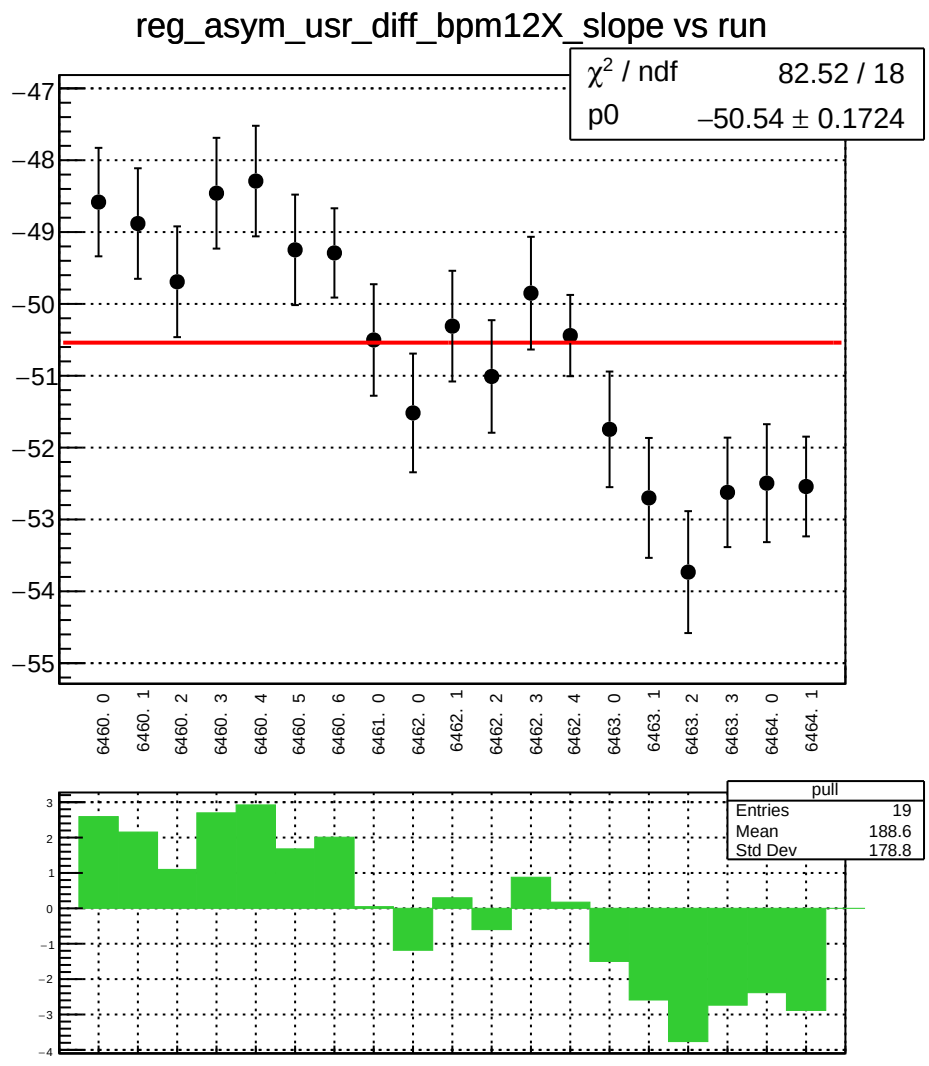

pull1D
Entries 19
Mean −0.01685
Std Dev 0.6905
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

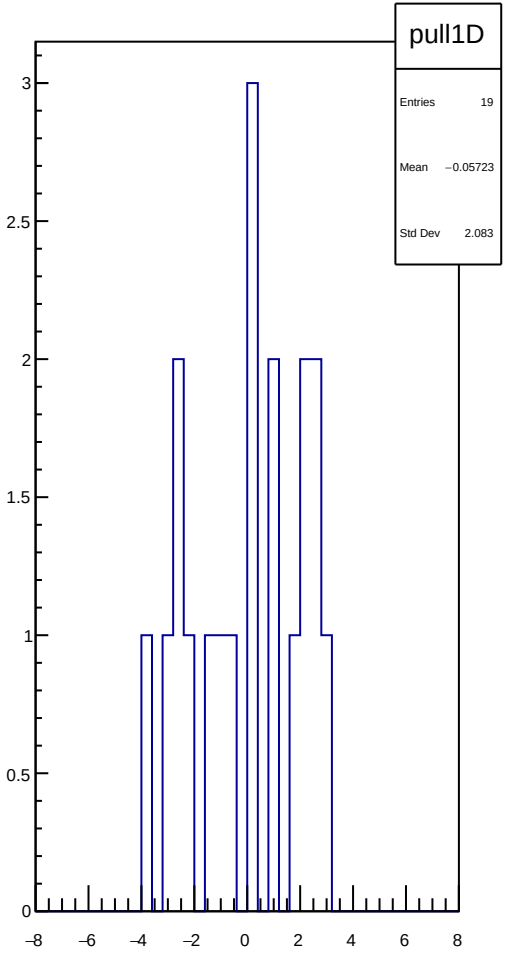

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 8.332 / 18
p0 9.448 ± 4.052
40
20
0
−20
−40
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 99.38
Std Dev 88.58
1
0.5
0
−0.5
−1
pull1D
Entries 19
Mean 0.01288
Std Dev 0.6621
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

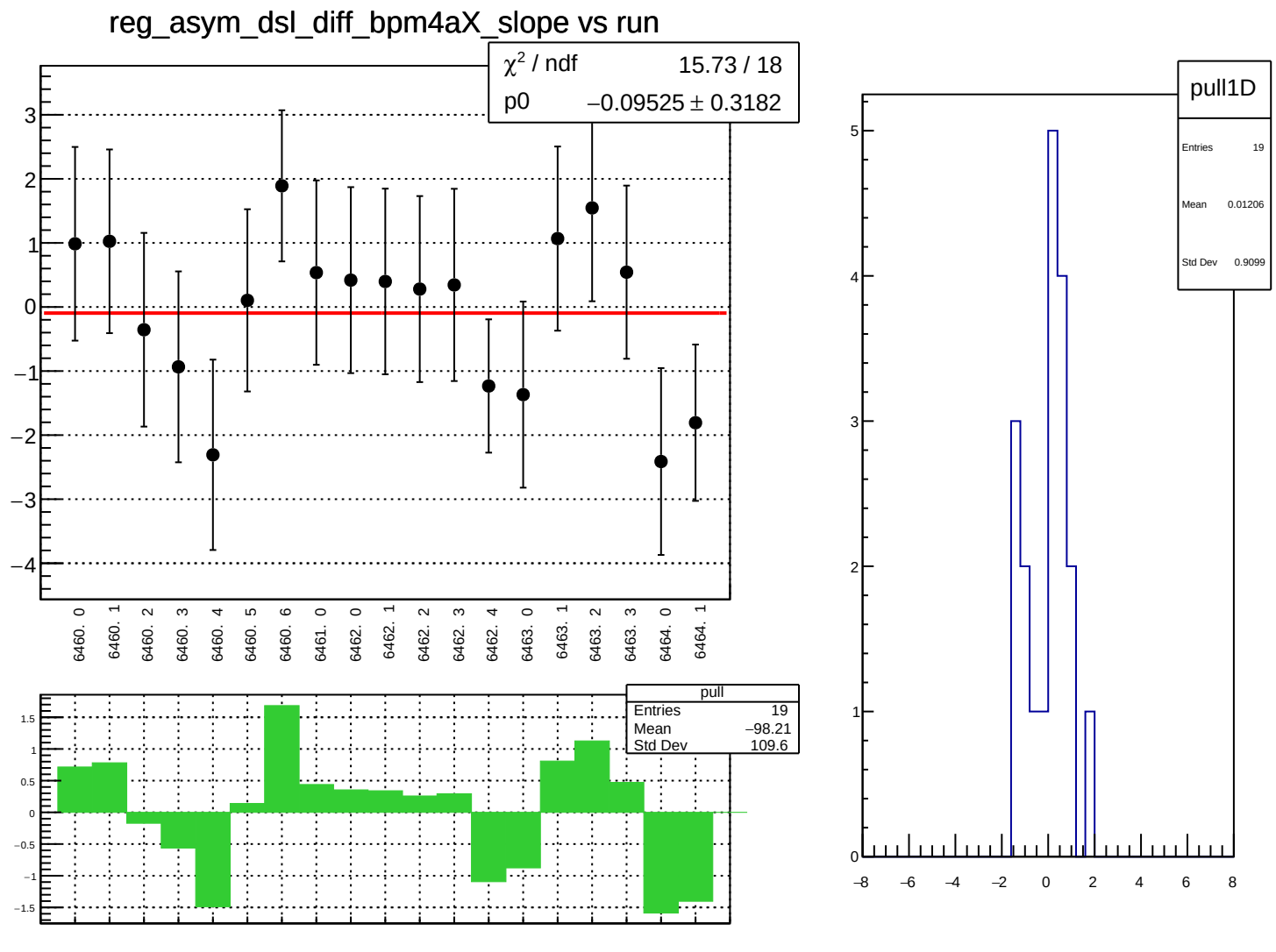

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 9.312 / 18
p0 221.9 ± 6.427
280
260
240
220
200
180
160
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 101
Std Dev 92.1
1
0.5
0
−0.5
−1
pull1D
Entries 19
Mean 0.01808
Std Dev 0.6998
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

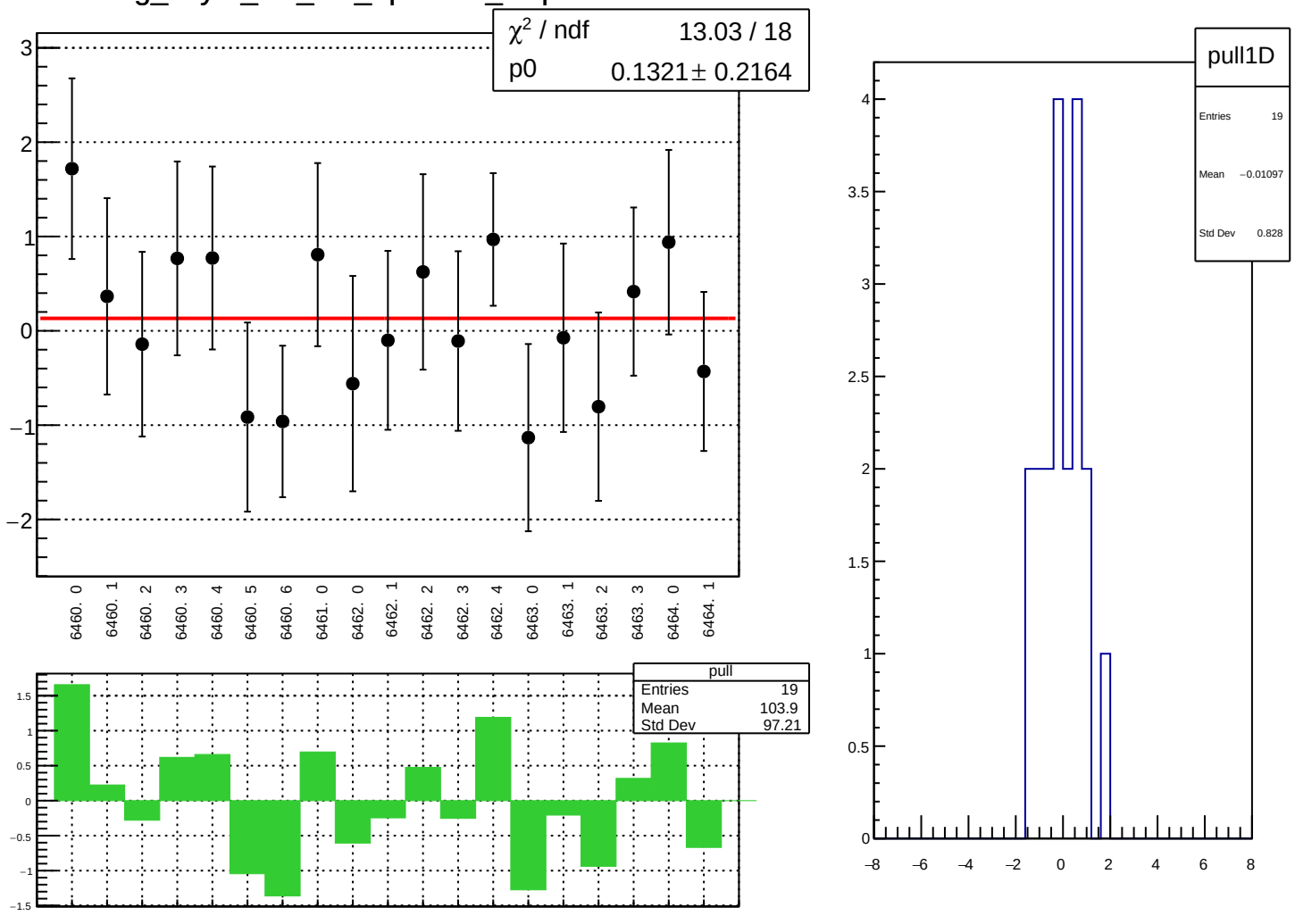

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 10.68 / 18
p0 0.9051 ± 4.104
40
20
0
−20
−40
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 143.9
Std Dev 133.6
1.5
1
0.5
0
−0.5
−1

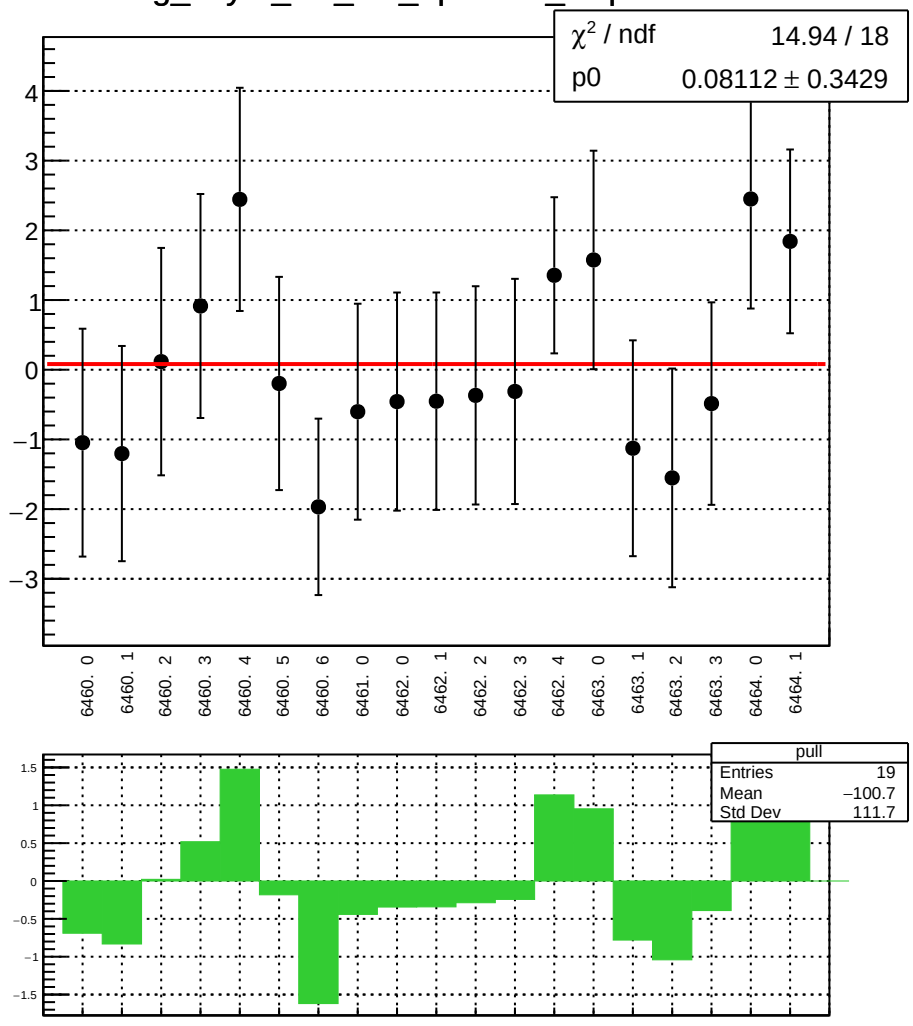

pull1D
Entries 19
Mean −0.01661
Std Dev 0.7494
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

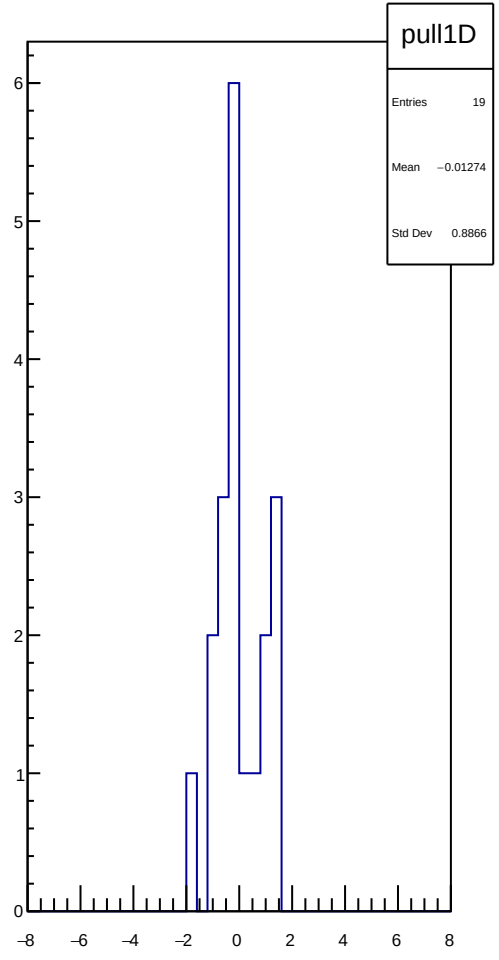

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 82.52 / 18
p0 −50.54 ± 0.1724
−47
−48
−49
−50
−51
−52
−53
−54
−55
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 188.6
Std Dev 178.8
3
2
1
0
−1
−2
−3
−4

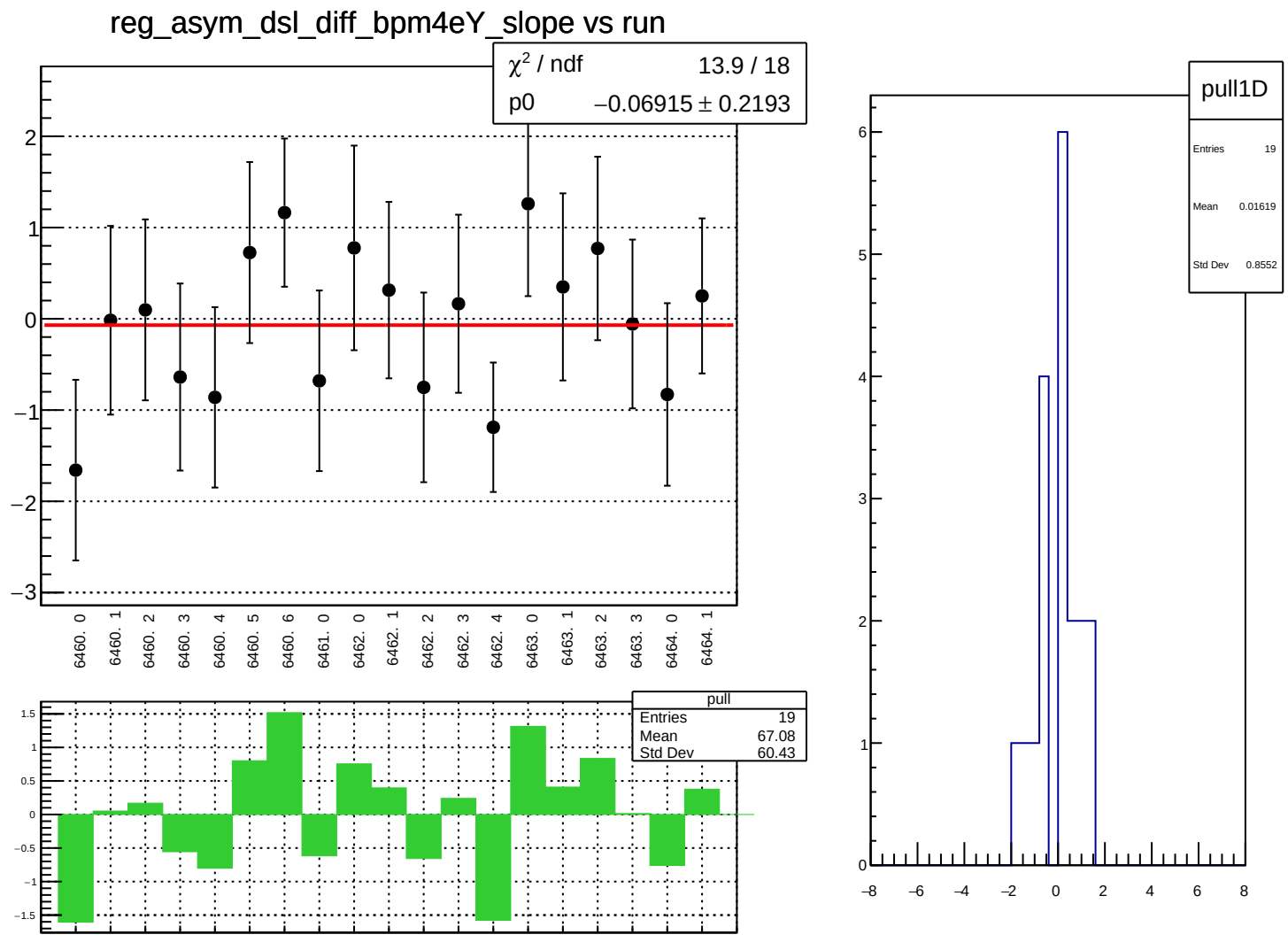

pull1D
Entries 19
Mean −0.05723
Std Dev 2.083
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

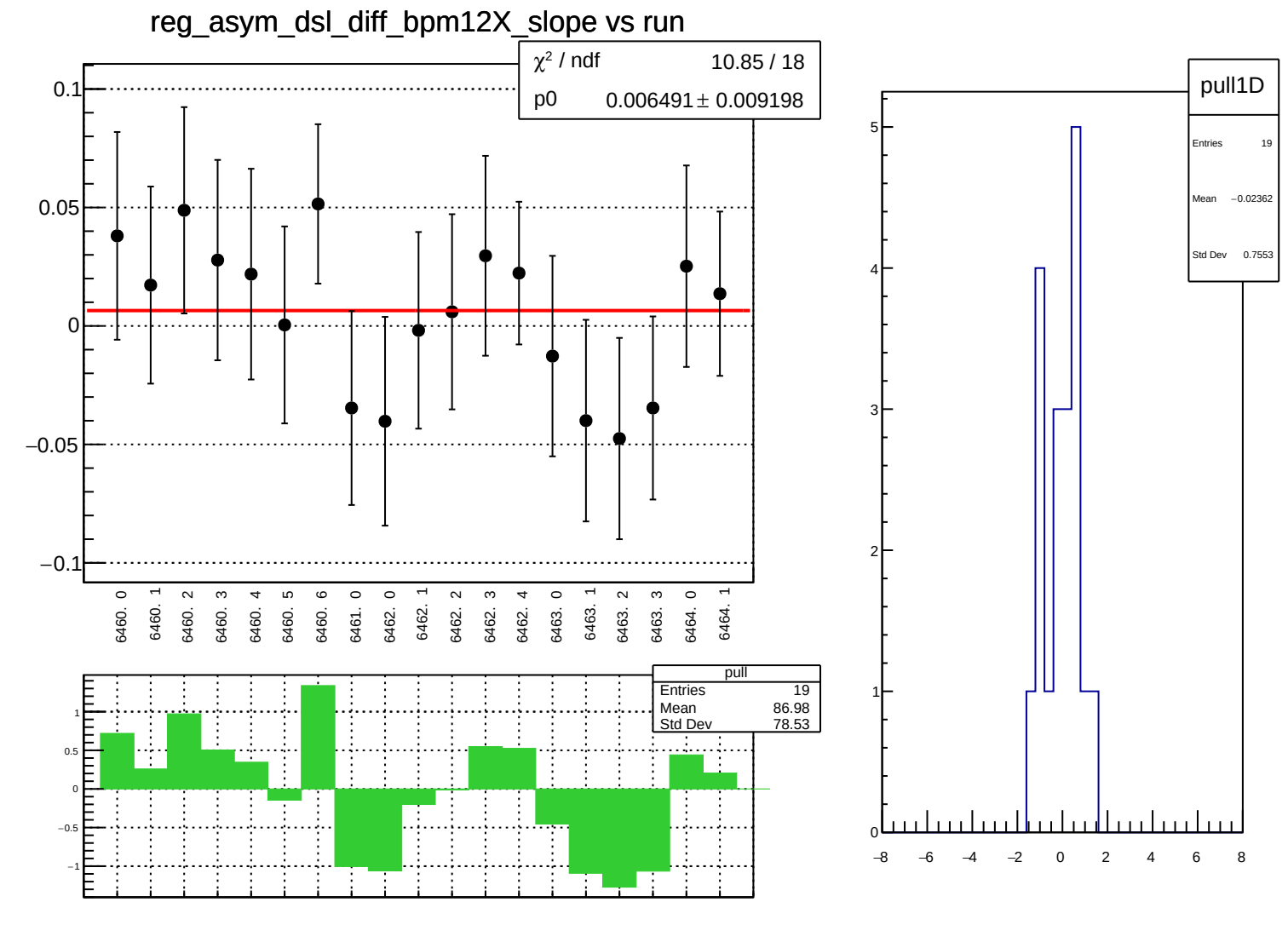

reg_asym_dsl_diff_bpm4aX_slope vs run
χ² / ndf 15.73 / 18
p0 −0.09525 ± 0.3182
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −98.21
Std Dev 109.6
pull1D
Entries 19
Mean 0.01206
Std Dev 0.9099

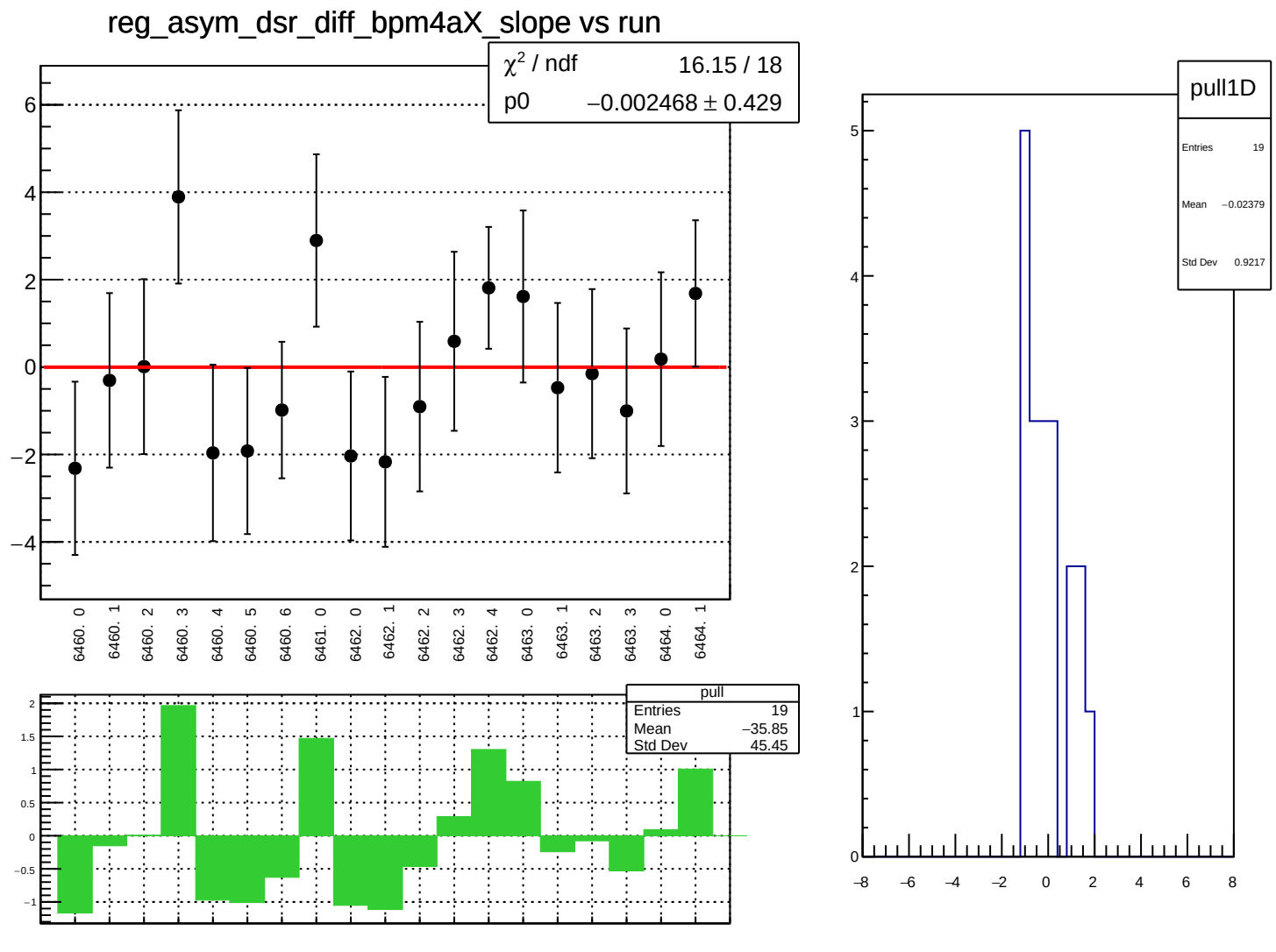

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 13.03 / 18
p0 0.1321 ± 0.2164
3
2
1
0
−1
−2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 103.9
Std Dev 97.21
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 19
Mean −0.01097
Std Dev 0.828
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

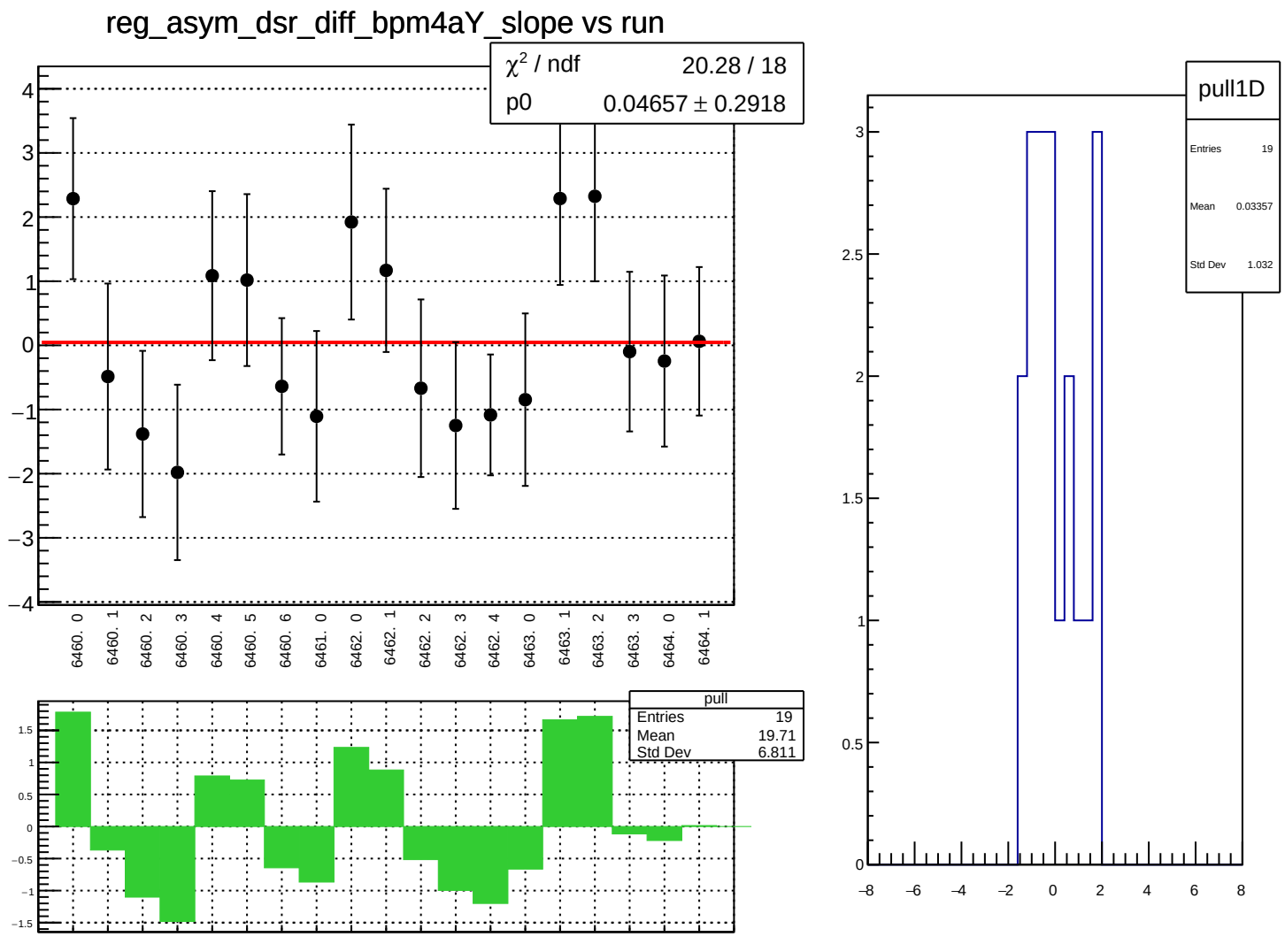

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 14.94 / 18
p0 0.08112 ± 0.3429
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −100.7
Std Dev 111.7

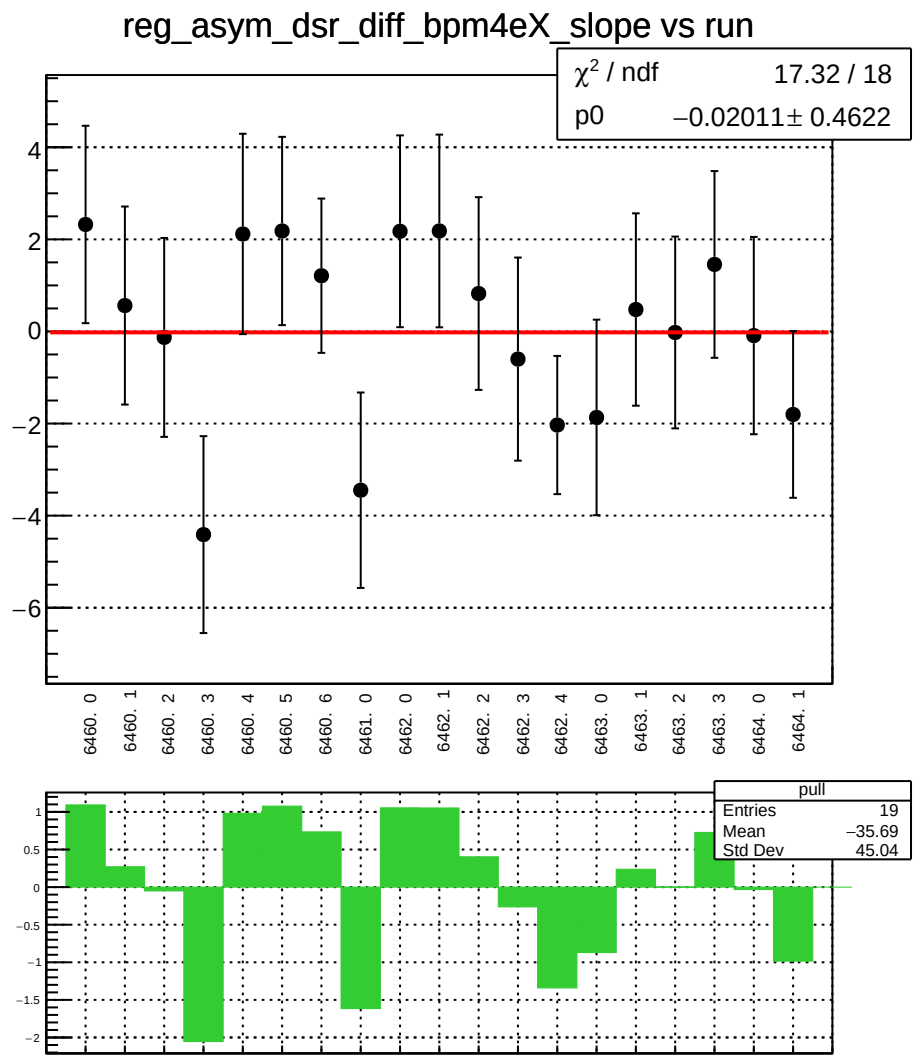

pull1D
Entries 19
Mean −0.01274
Std Dev 0.8866

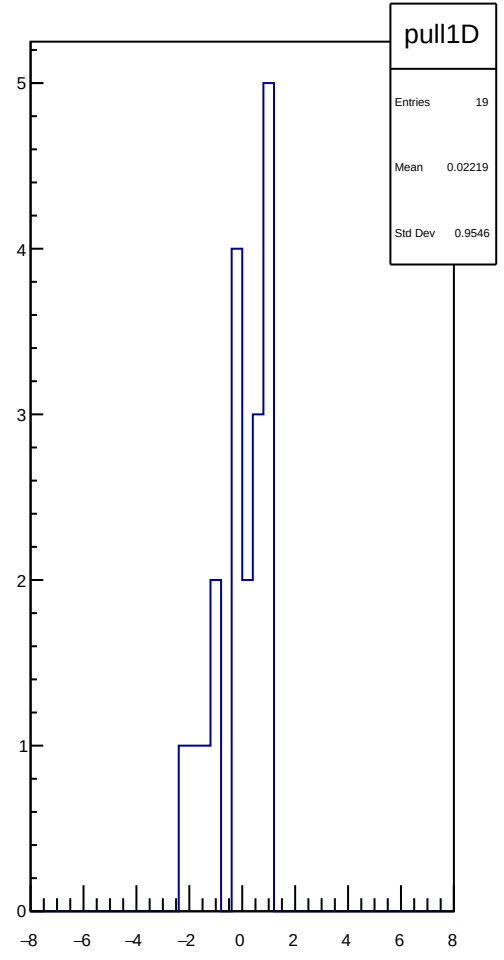

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 13.9 / 18
p0 −0.06915 ± 0.2193
2
1
0
−1
−2
−3
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 67.08
Std Dev 60.43
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 19
Mean 0.01619
Std Dev 0.8552
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

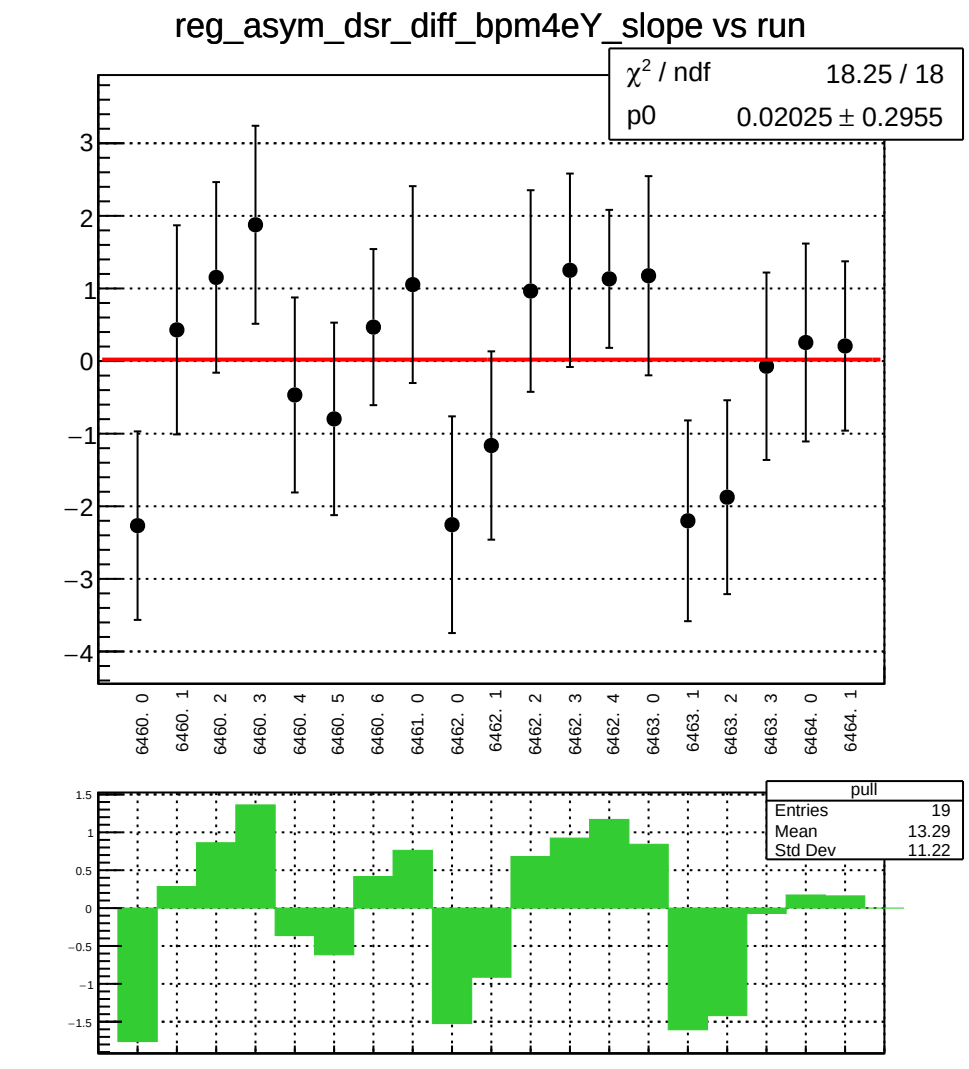

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 10.85 / 18
p0 0.006491 ± 0.009198
0.1
0.05
0
−0.05
−0.1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 86.98
Std Dev 78.53
1
0.5
0
−0.5
−1
pull1D
Entries 19
Mean −0.02362
Std Dev 0.7553
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

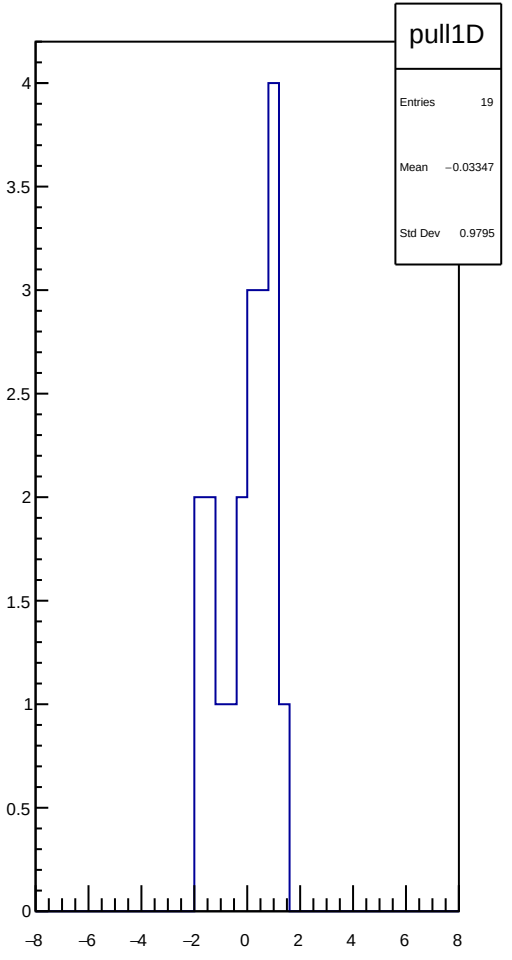

reg_asym_dsr_diff_bpm4aX_slope vs run
χ² / ndf 16.15 / 18
p0 −0.002468 ± 0.429
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −35.85
Std Dev 45.45
pull1D
Entries 19
Mean −0.02379
Std Dev 0.9217

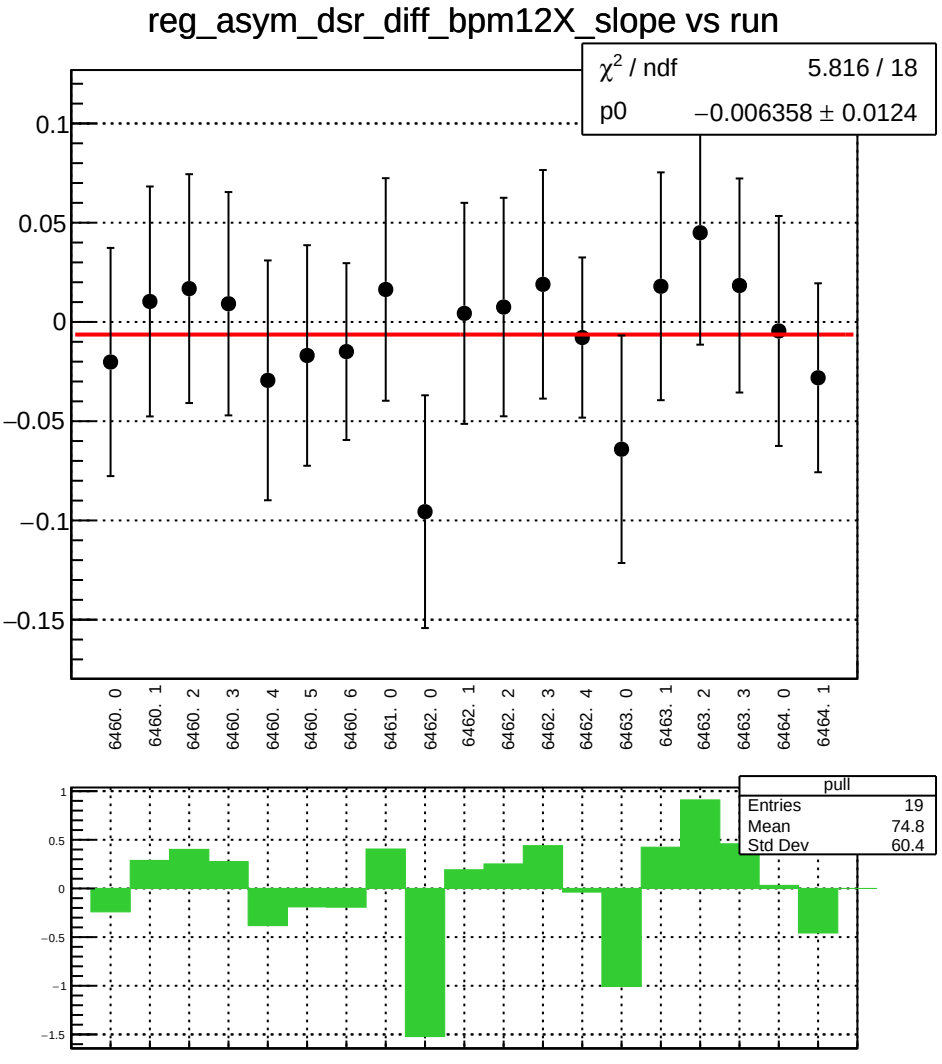

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 20.28 / 18
p0 0.04657 ± 0.2918
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 19.71
Std Dev 6.811
pull1D
Entries 19
Mean 0.03357
Std Dev 1.032

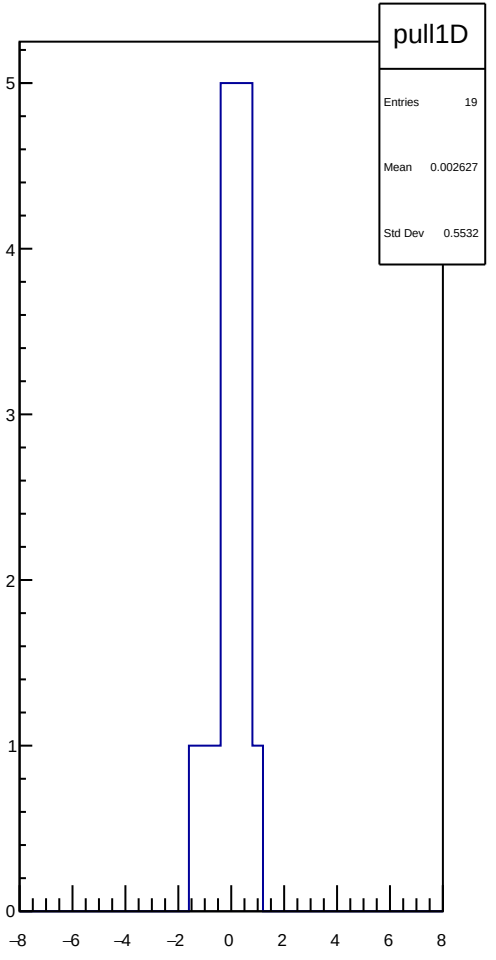

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 17.32 / 18
p0 −0.02011± 0.4622
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −35.69
Std Dev 45.04

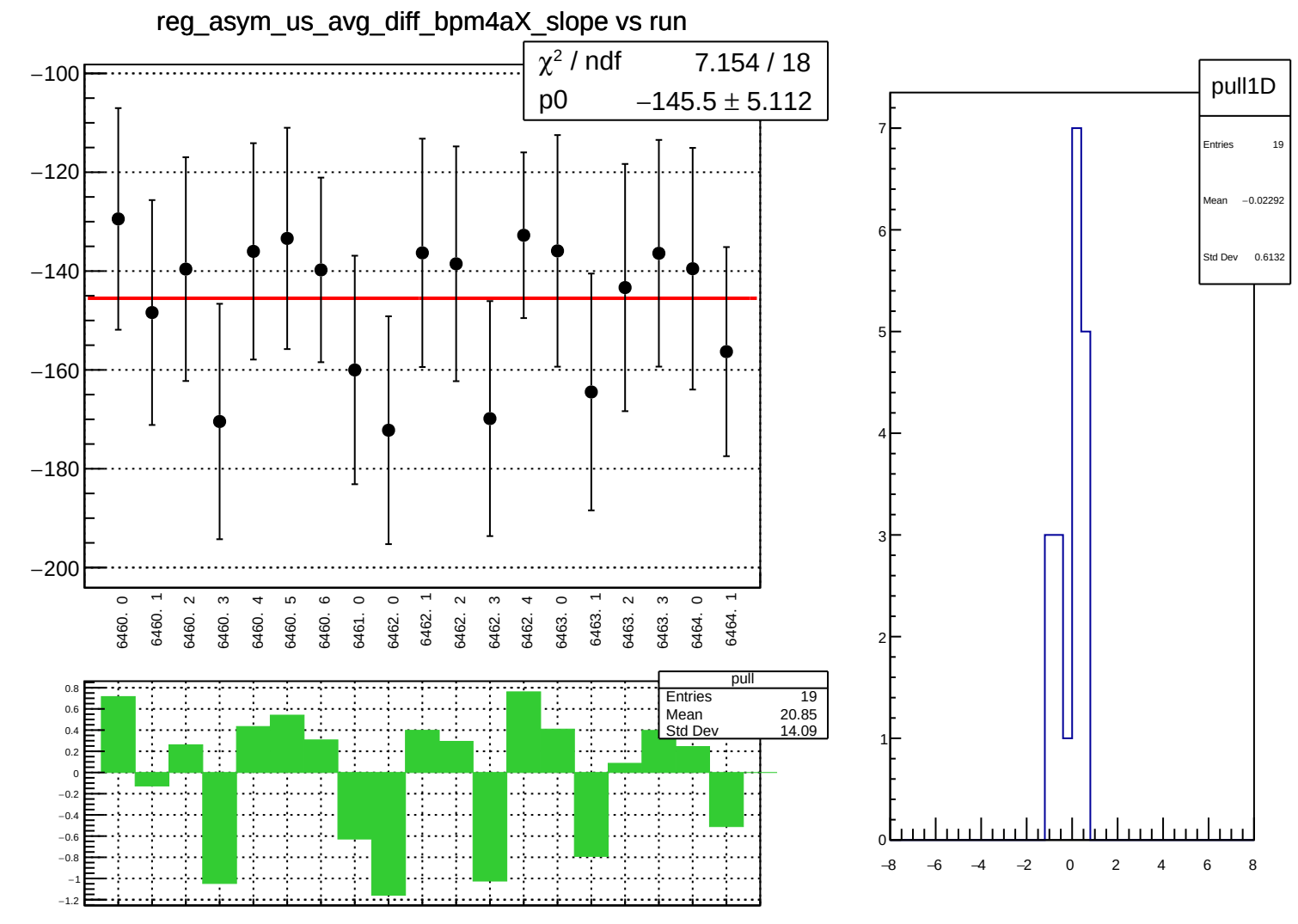

pull1D
Entries 19
Mean 0.02219
Std Dev 0.9546

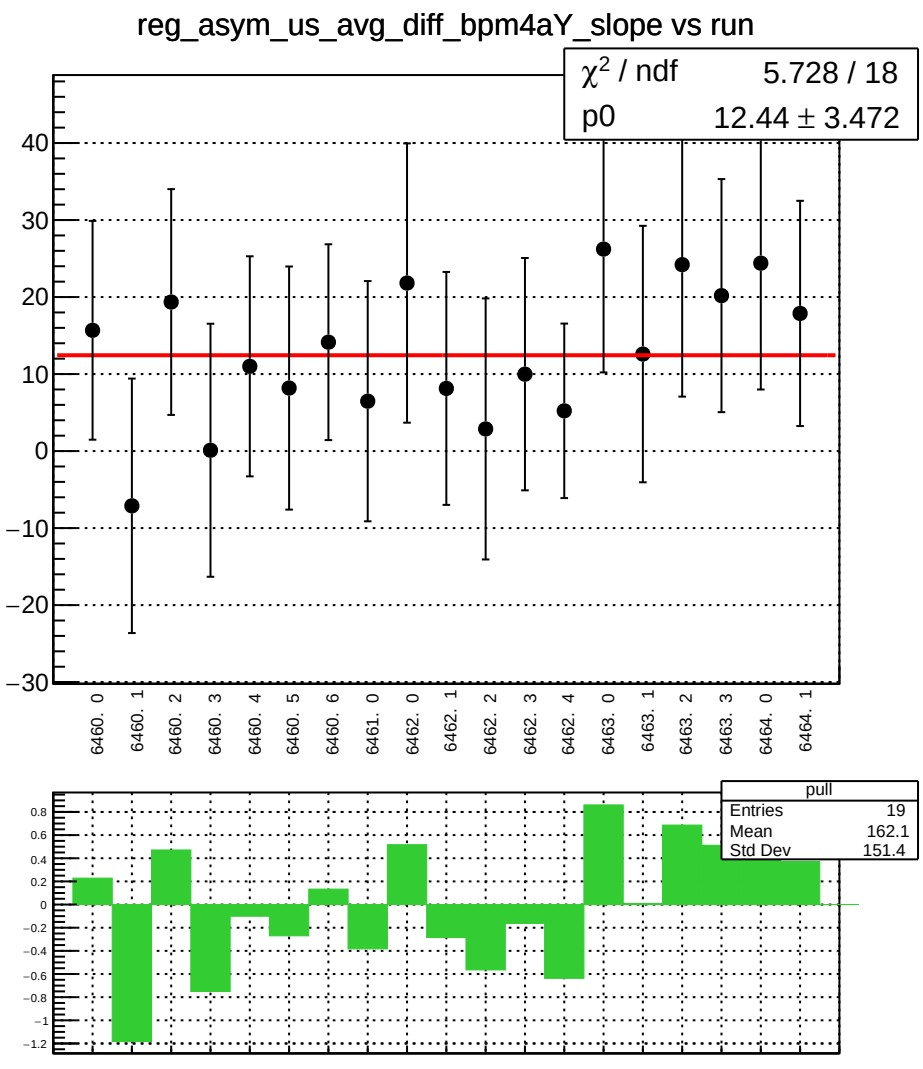

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 18.25 / 18
p0 0.02025 ± 0.2955
3
2
1
0
−1
−2
−3
−4
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 13.29
Std Dev 11.22
1.5
1
0.5
0
−0.5
−1
−1.5

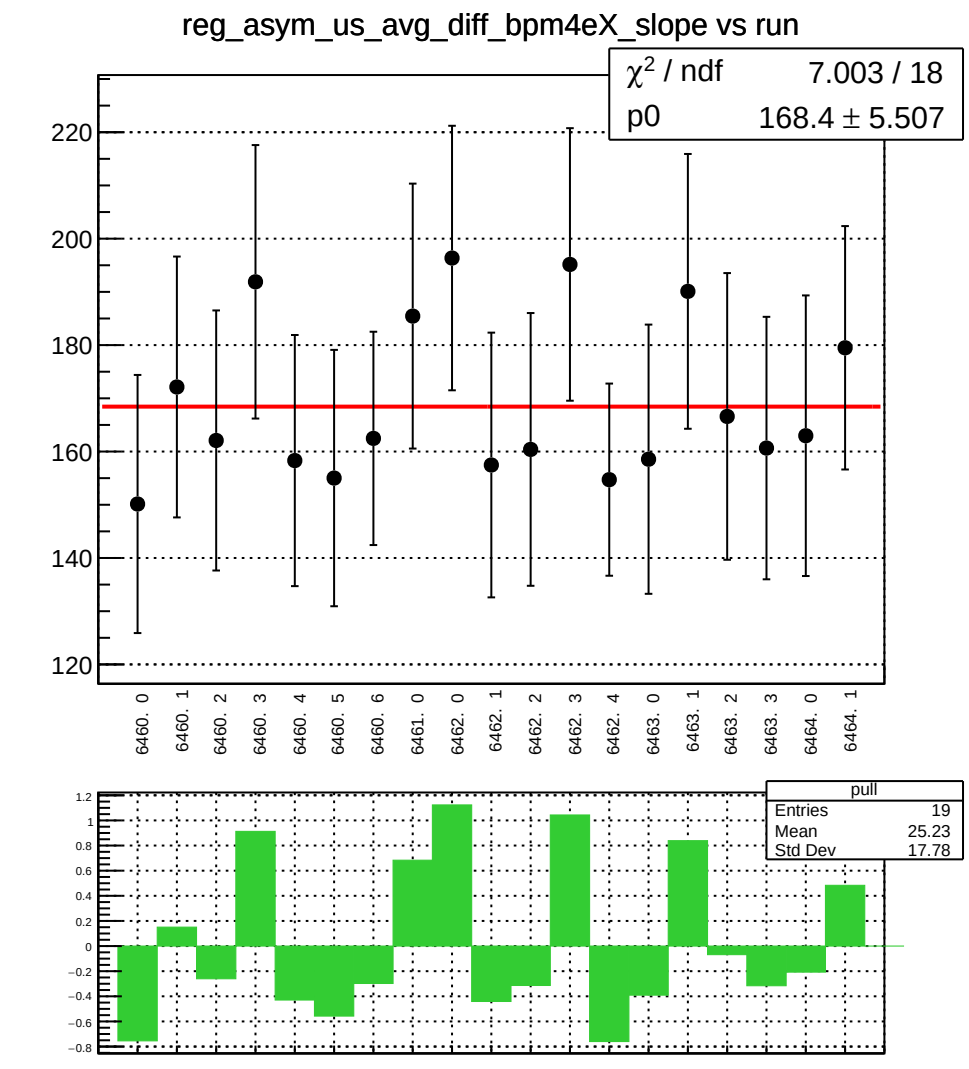

pull1D
Entries 19
Mean −0.03347
Std Dev 0.9795
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

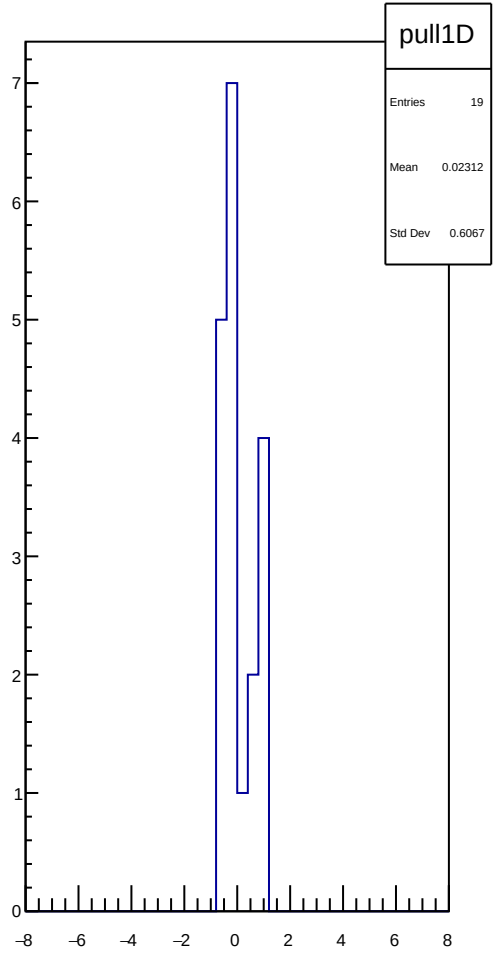

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 5.816 / 18
p0 −0.006358 ± 0.0124
0.1
0.05
0
−0.05
−0.1
−0.15
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 74.8
Std Dev 60.4
1
0.5
0
−0.5
−1
−1.5

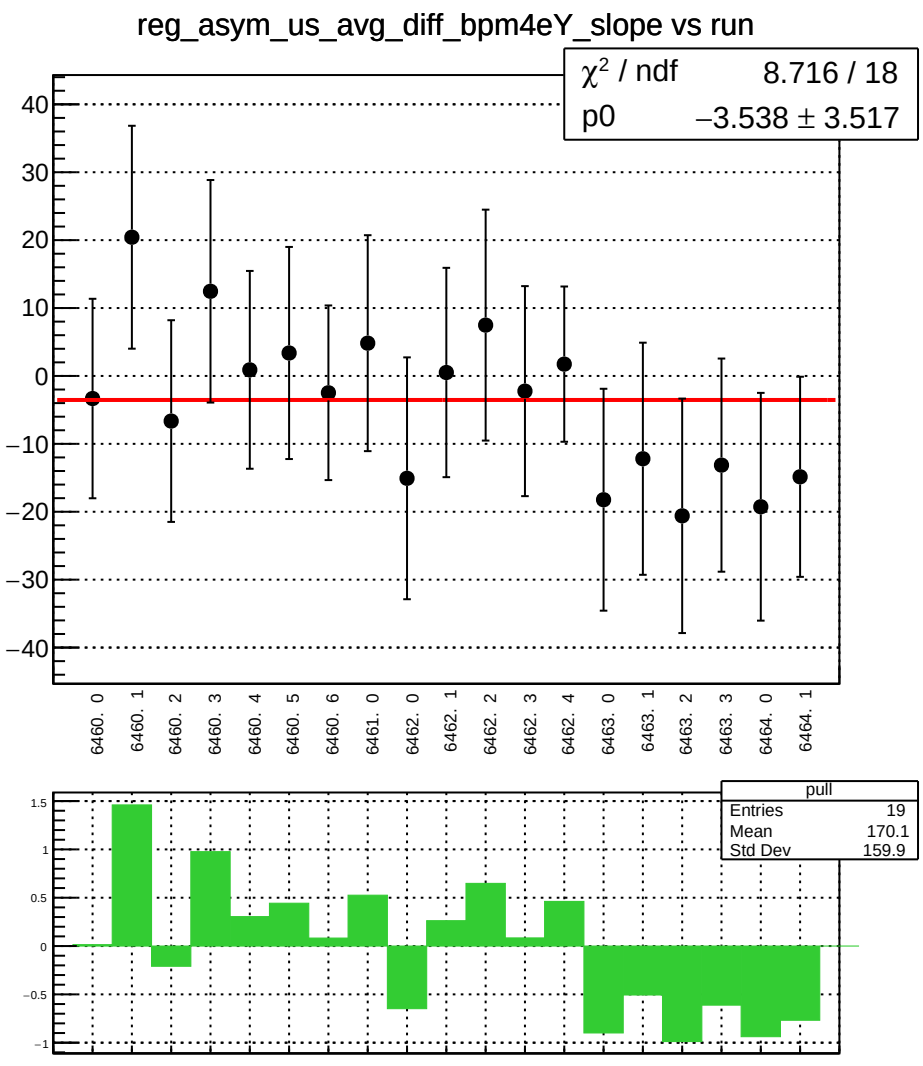

pull1D
Entries 19
Mean 0.002627
Std Dev 0.5532
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

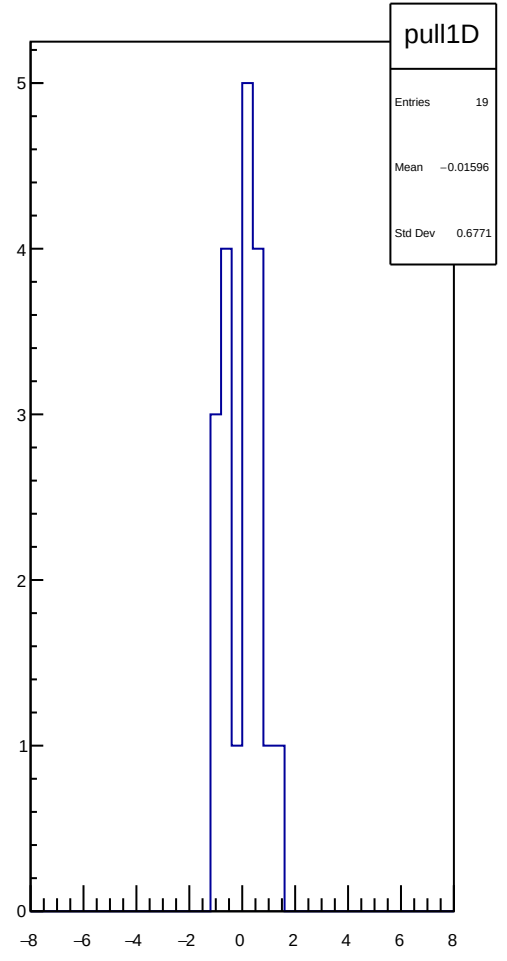

reg_asym_us_avg_diff_bpm4aX_slope vs run
χ² / ndf 7.154 / 18
p0 −145.5 ± 5.112
−100
−120
−140
−160
−180
−200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 20.85
Std Dev 14.09
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 19
Mean −0.02292
Std Dev 0.6132
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

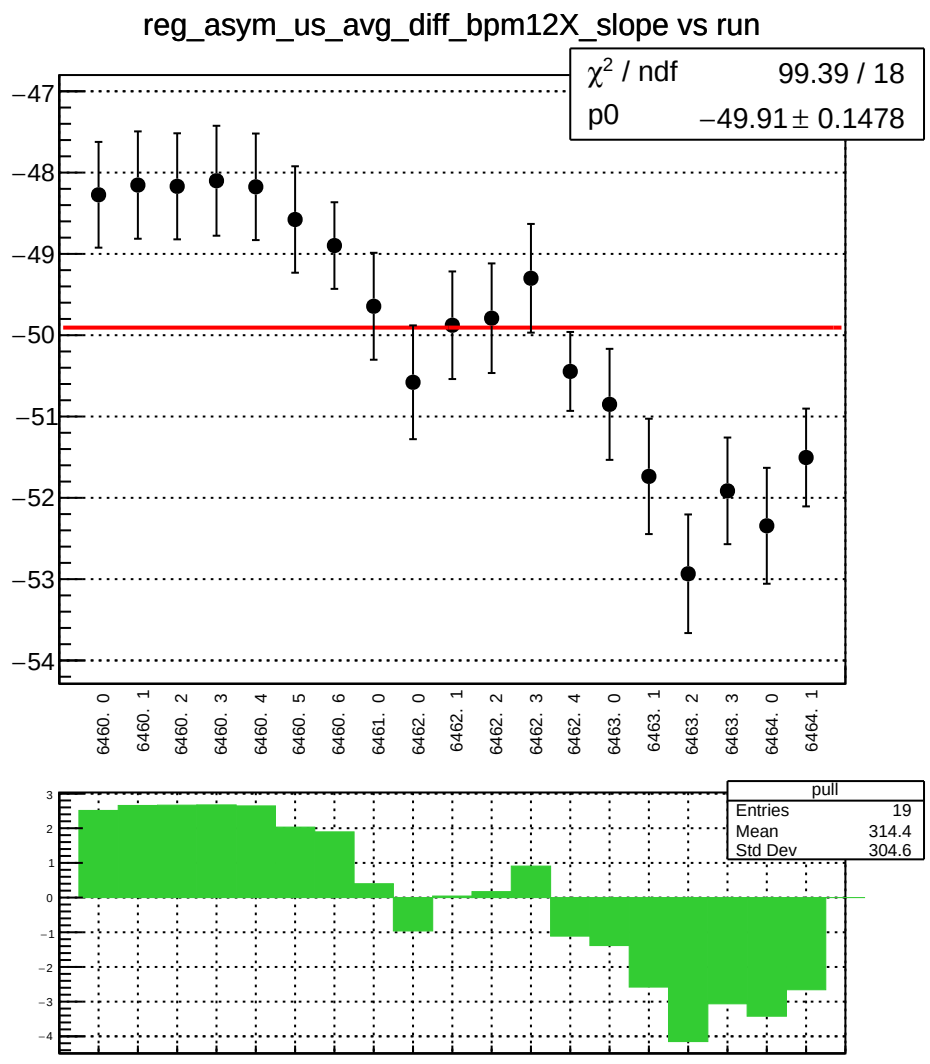

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.728 / 18
p0 12.44 ± 3.472
40
30
20
10
0
−10
−20
−30
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 162.1
Std Dev 151.4
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 19
Mean 0.00952
Std Dev 0.549
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

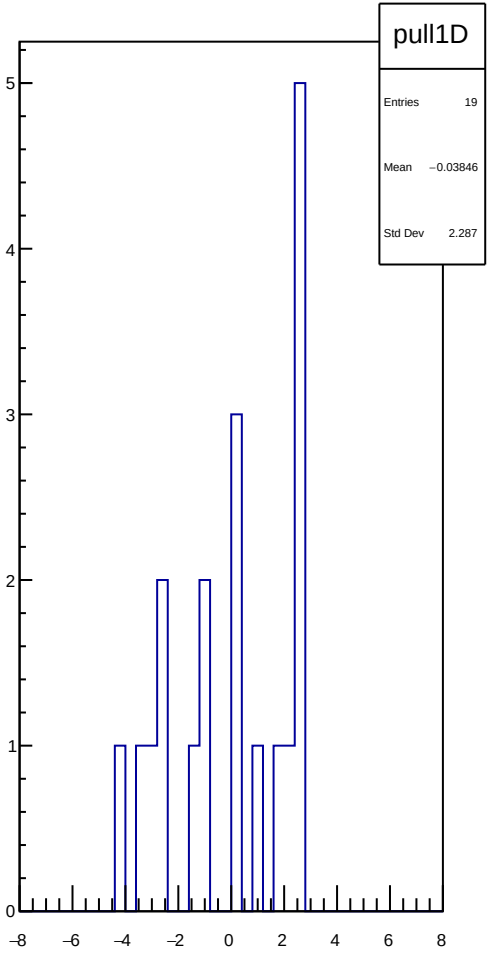

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 7.003 / 18
p0 168.4 ± 5.507
220
200
180
160
140
120
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 25.23
Std Dev 17.78
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

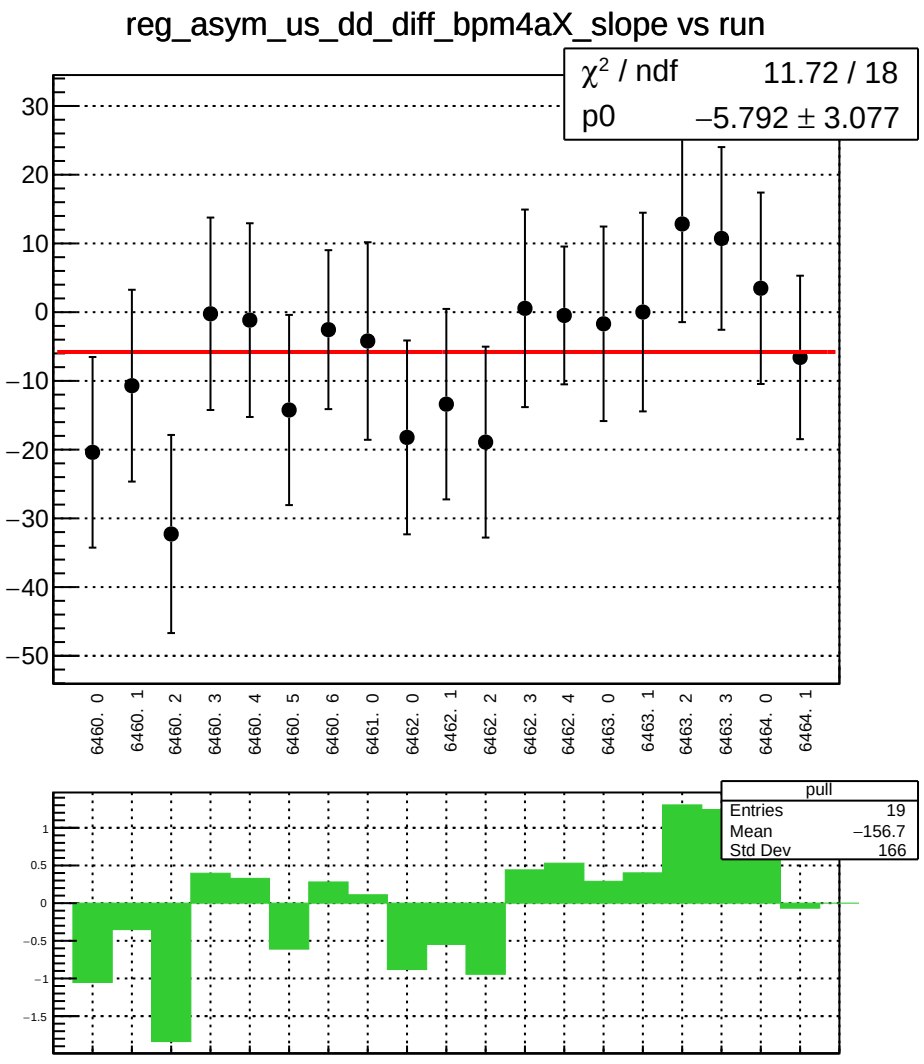

pull1D
Entries 19
Mean 0.02312
Std Dev 0.6067
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

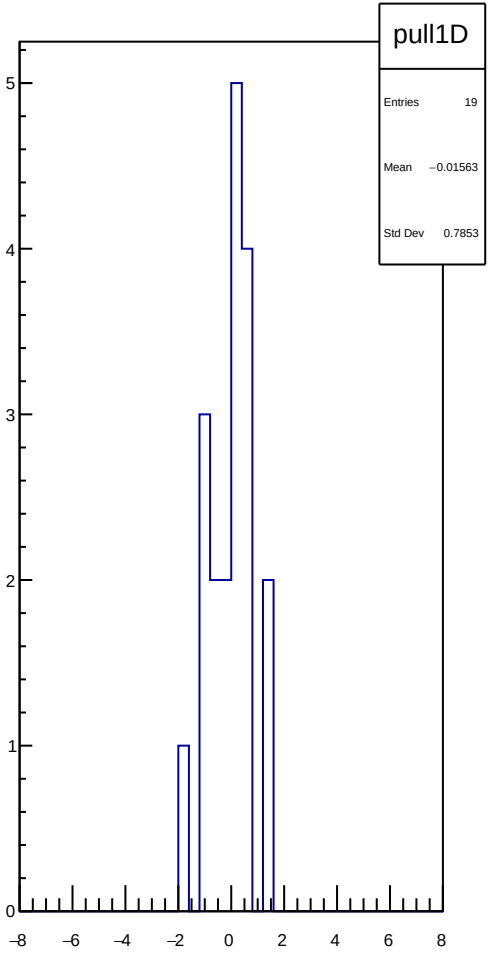

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.716 / 18
p0 −3.538 ± 3.517
40
30
20
10
0
−10
−20
−30
−40
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 170.1
Std Dev 159.9
1.5
1
0.5
0
−0.5
−1

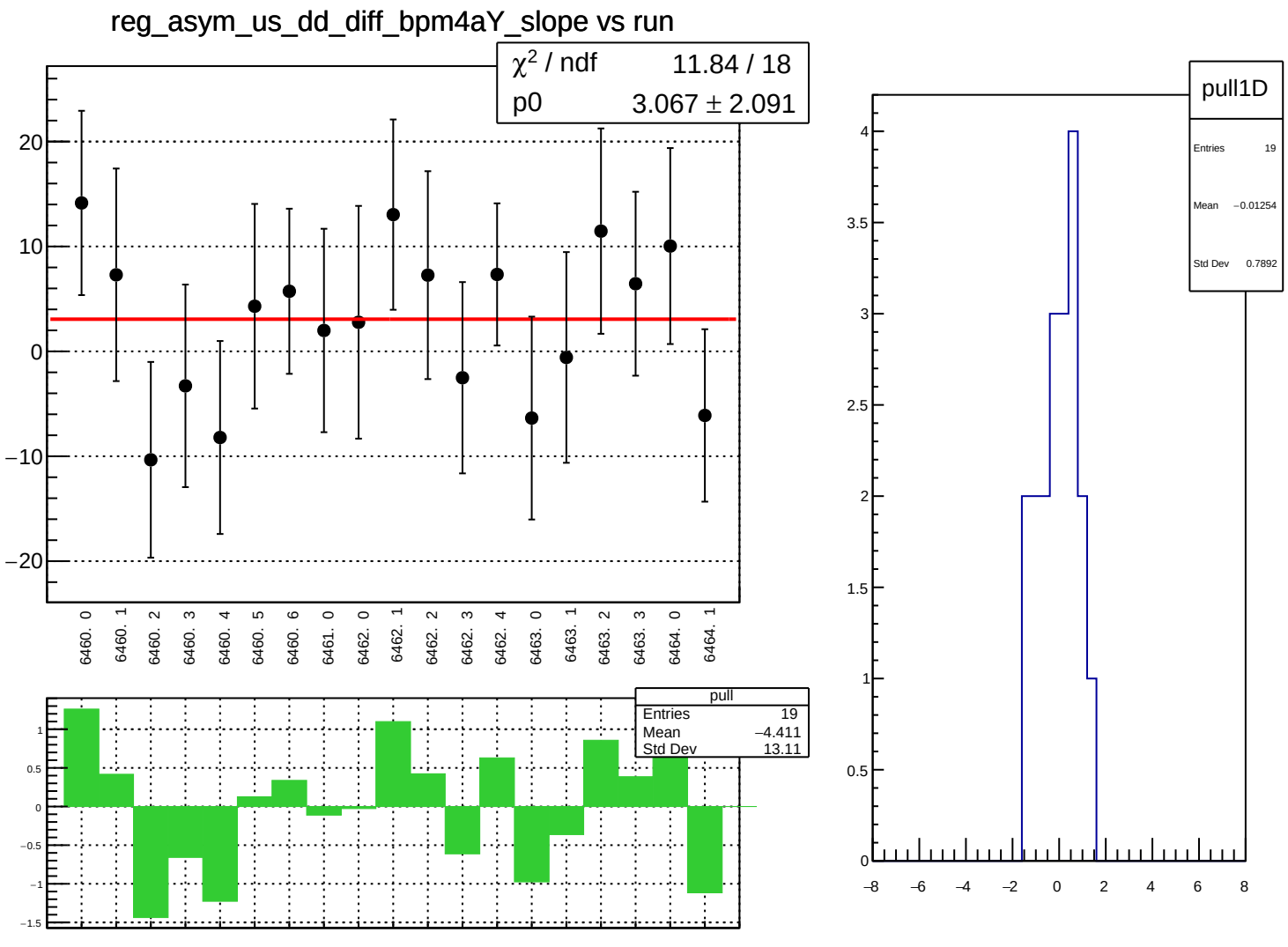

pull1D
Entries 19
Mean −0.01596
Std Dev 0.6771
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

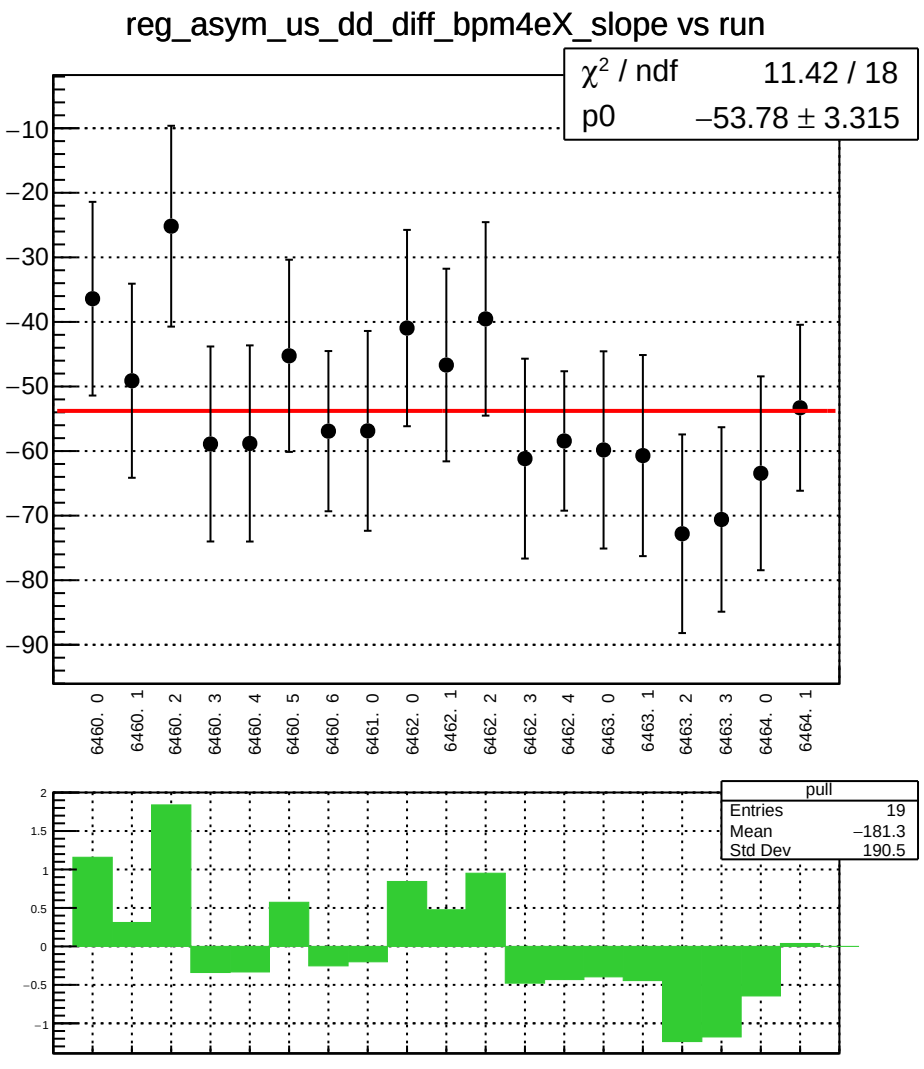

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 99.39 / 18
p0 −49.91 ± 0.1478
−47
−48
−49
−50
−51
−52
−53
−54
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 314.4
Std Dev 304.6
3
2
1
0
−1
−2
−3
−4

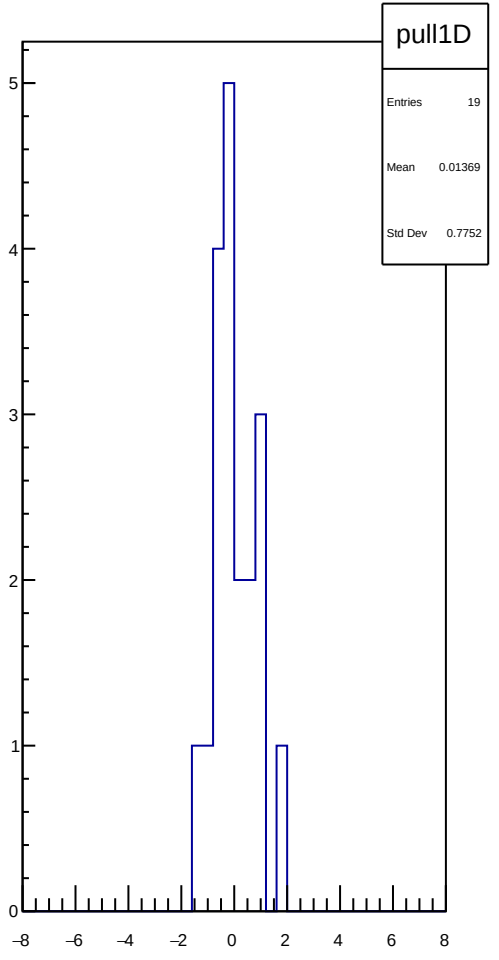

pull1D
Entries 19
Mean −0.03846
Std Dev 2.287
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

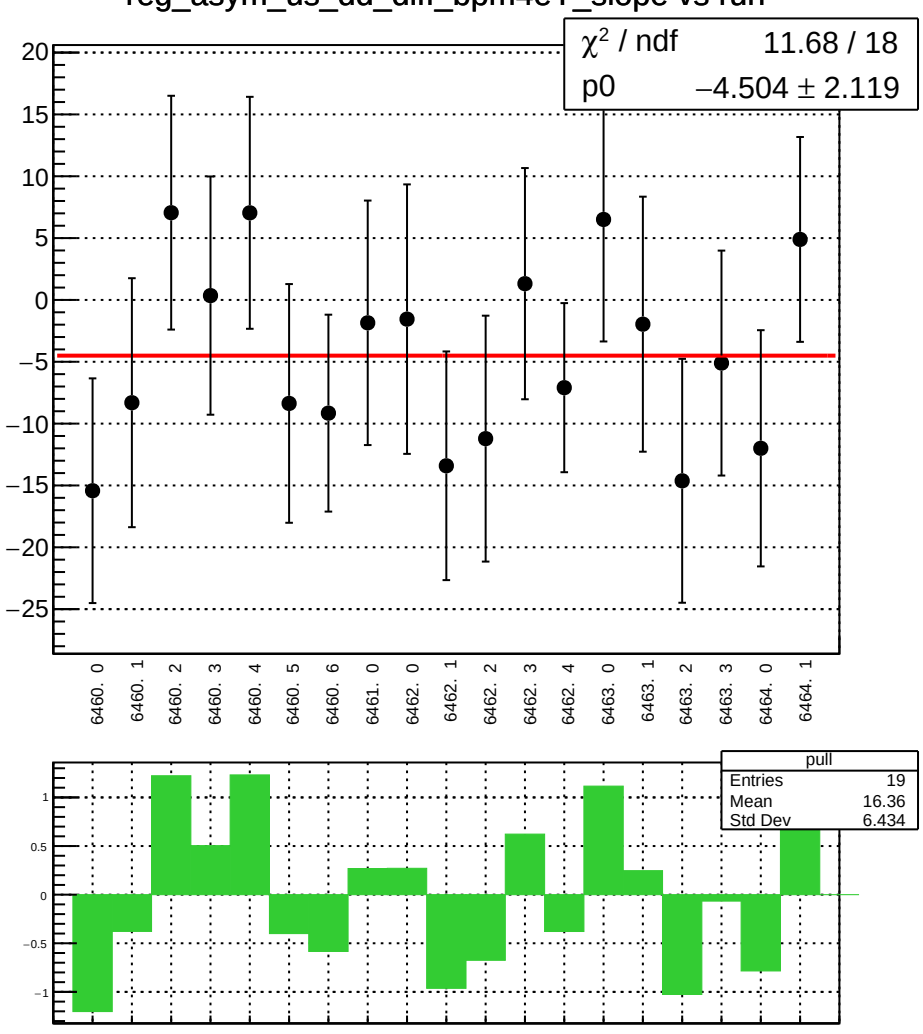

reg_asym_us_dd_diff_bpm4aX_slope vs run
χ² / ndf 11.72 / 18
p0 −5.792 ± 3.077
30
20
10
0
−10
−20
−30
−40
−50
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −156.7
Std Dev 166
1
0.5
0
−0.5
−1
−1.5

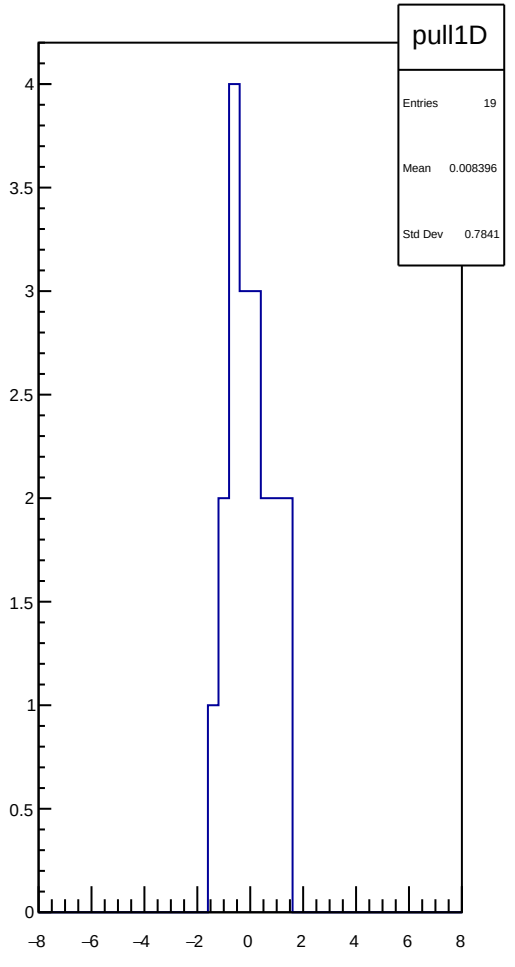

pull1D
Entries 19
Mean −0.01563
Std Dev 0.7853
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

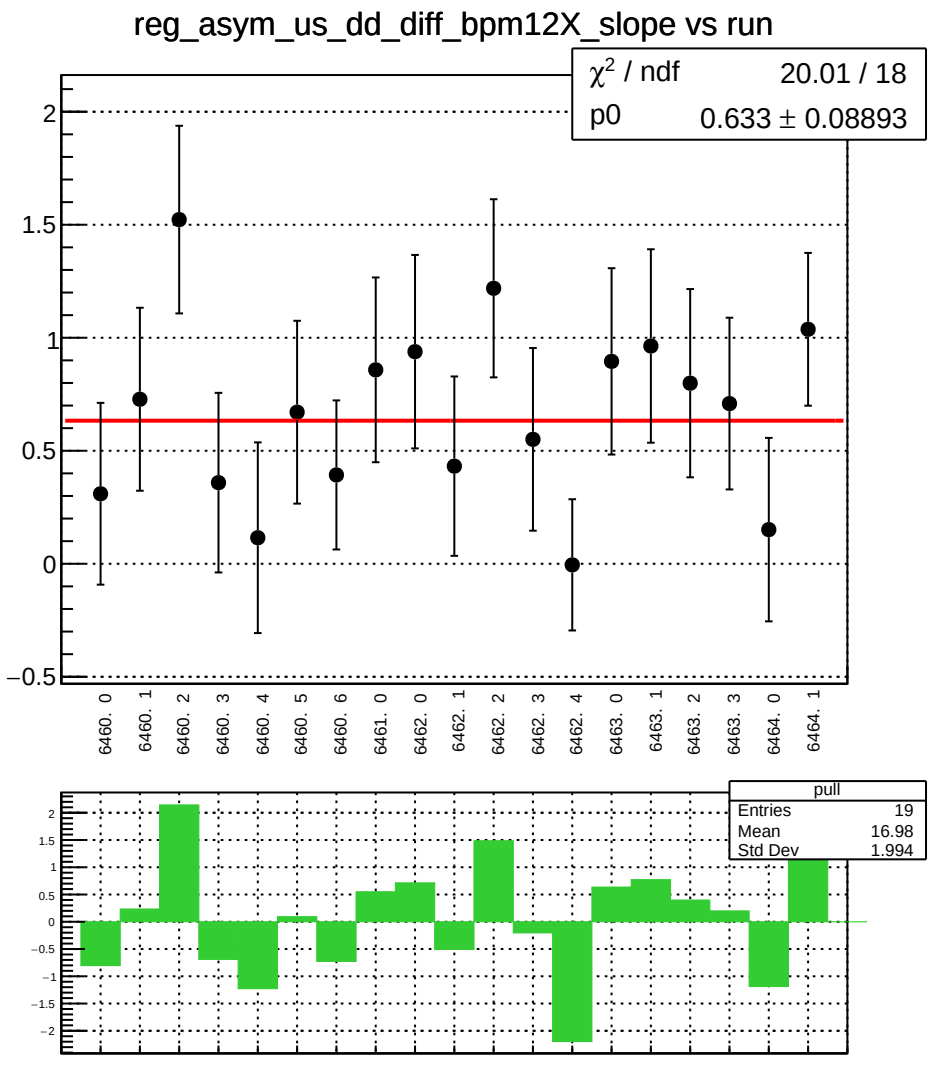

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.84 / 18
p0 3.067 ± 2.091
20
10
0
−10
−20
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −4.411
Std Dev 13.11
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 19
Mean −0.01254
Std Dev 0.7892
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

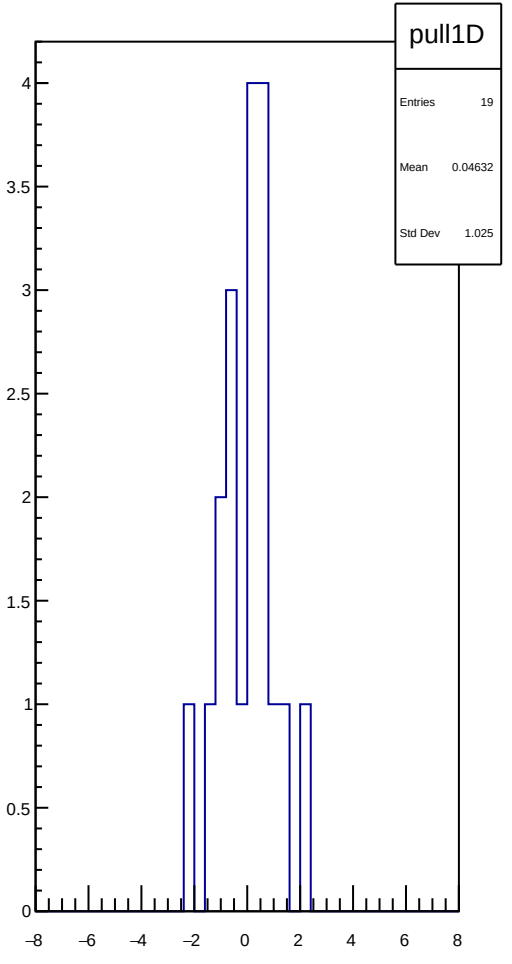

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 11.42 / 18
p0 −53.78 ± 3.315
−10
−20
−30
−40
−50
−60
−70
−80
−90
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −181.3
Std Dev 190.5
2
1.5
1
0.5
0
−0.5
−1

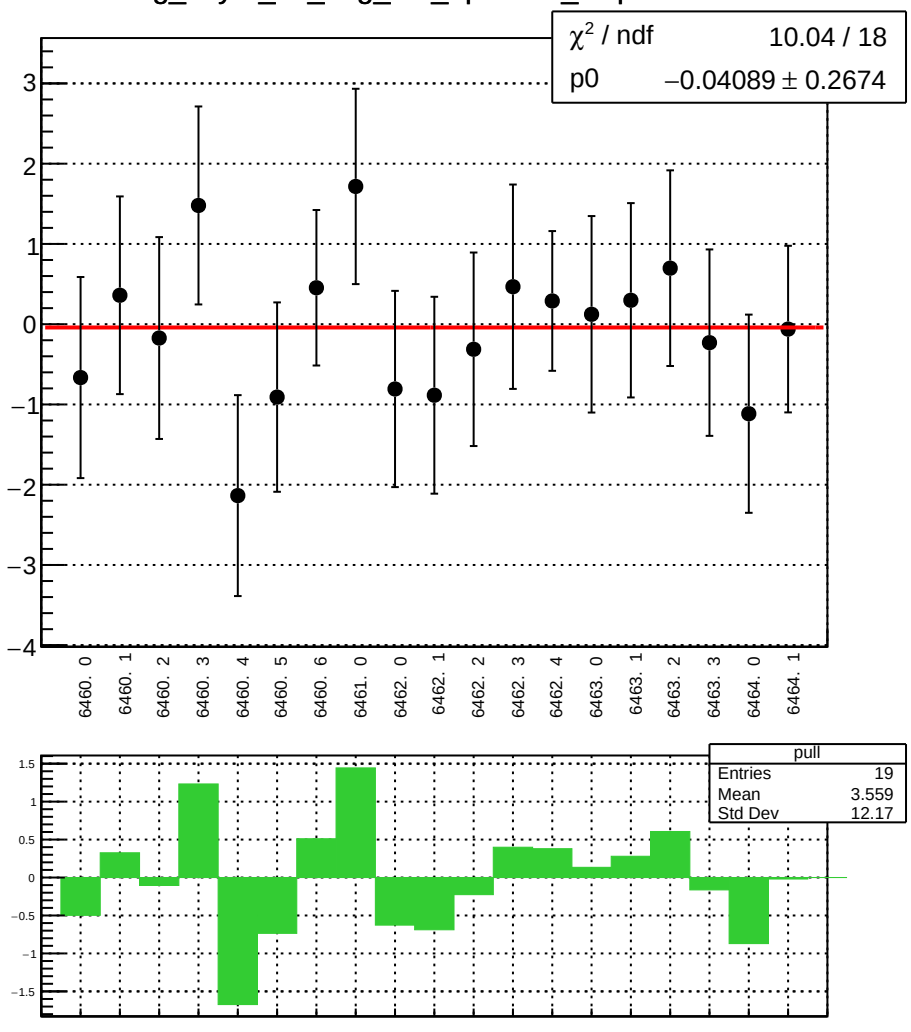

pull1D
Entries 19
Mean 0.01369
Std Dev 0.7752
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

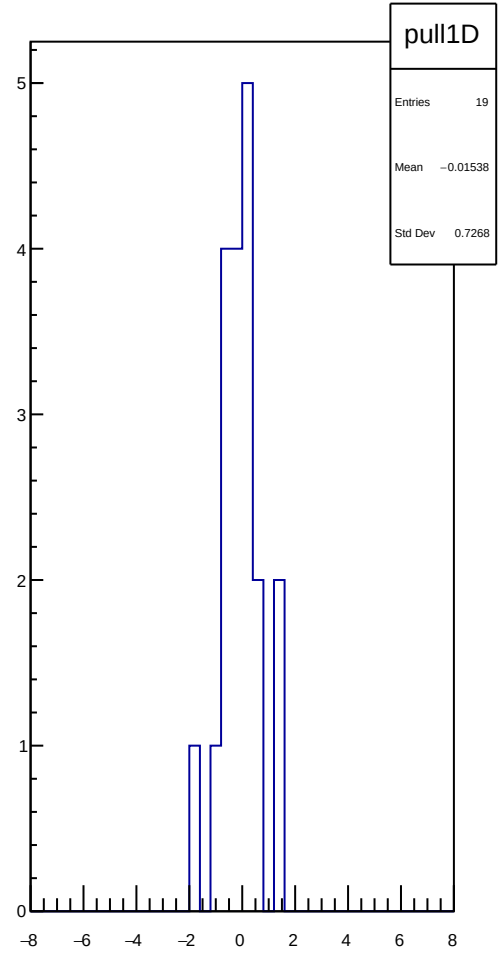

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.68 / 18
p0 −4.504 ± 2.119
20
15
10
5
0
−5
−10
−15
−20
−25
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 16.36
Std Dev 6.434
1
0.5
0
−0.5
−1

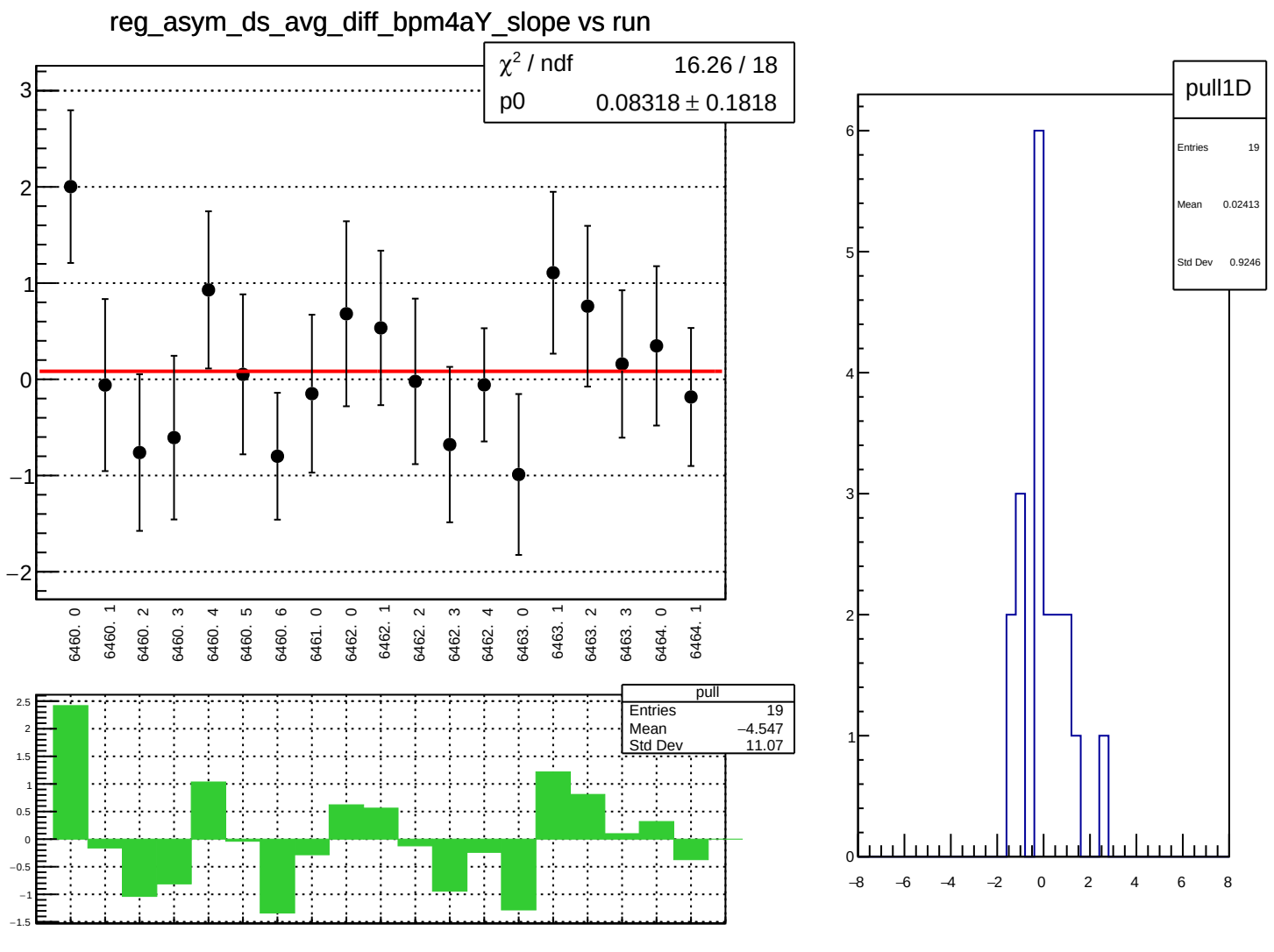

pull1D
Entries 19
Mean 0.008396
Std Dev 0.7841
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

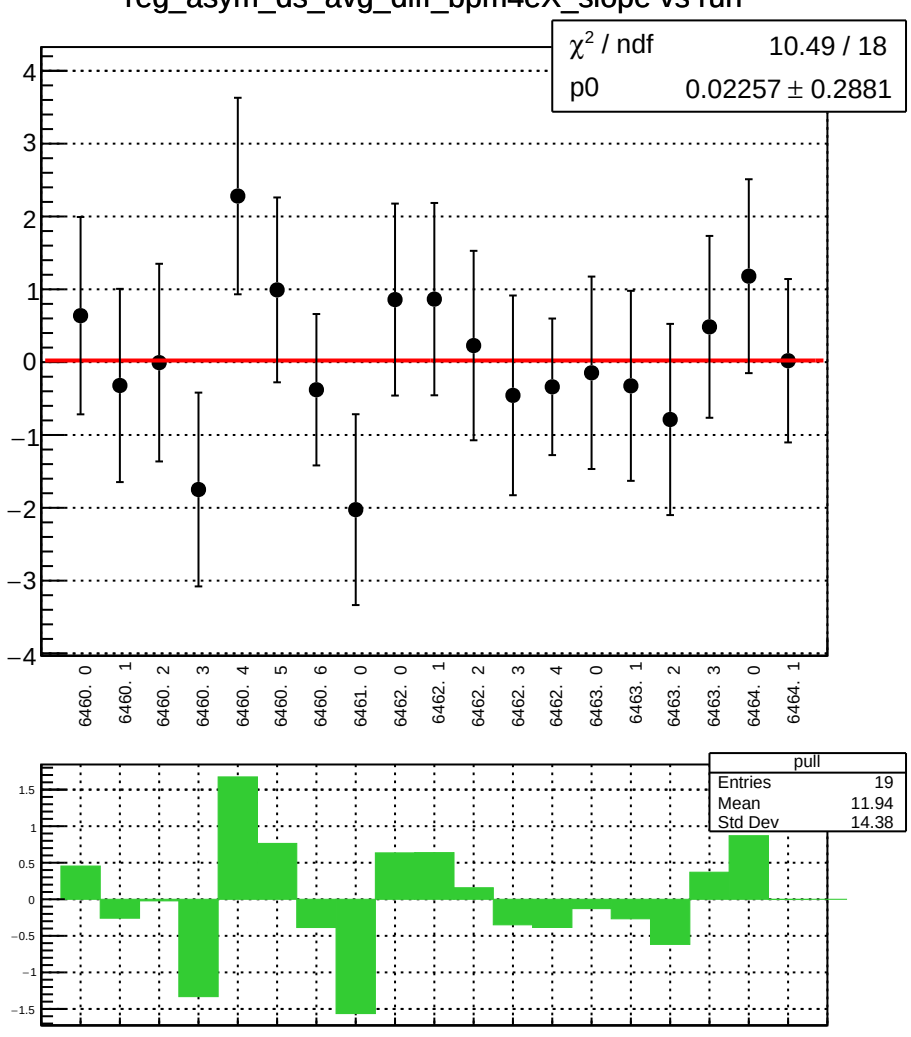

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 20.01 / 18
p0 0.633 ± 0.08893
2
1.5
1
0.5
0
−0.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 16.98
Std Dev 1.994
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

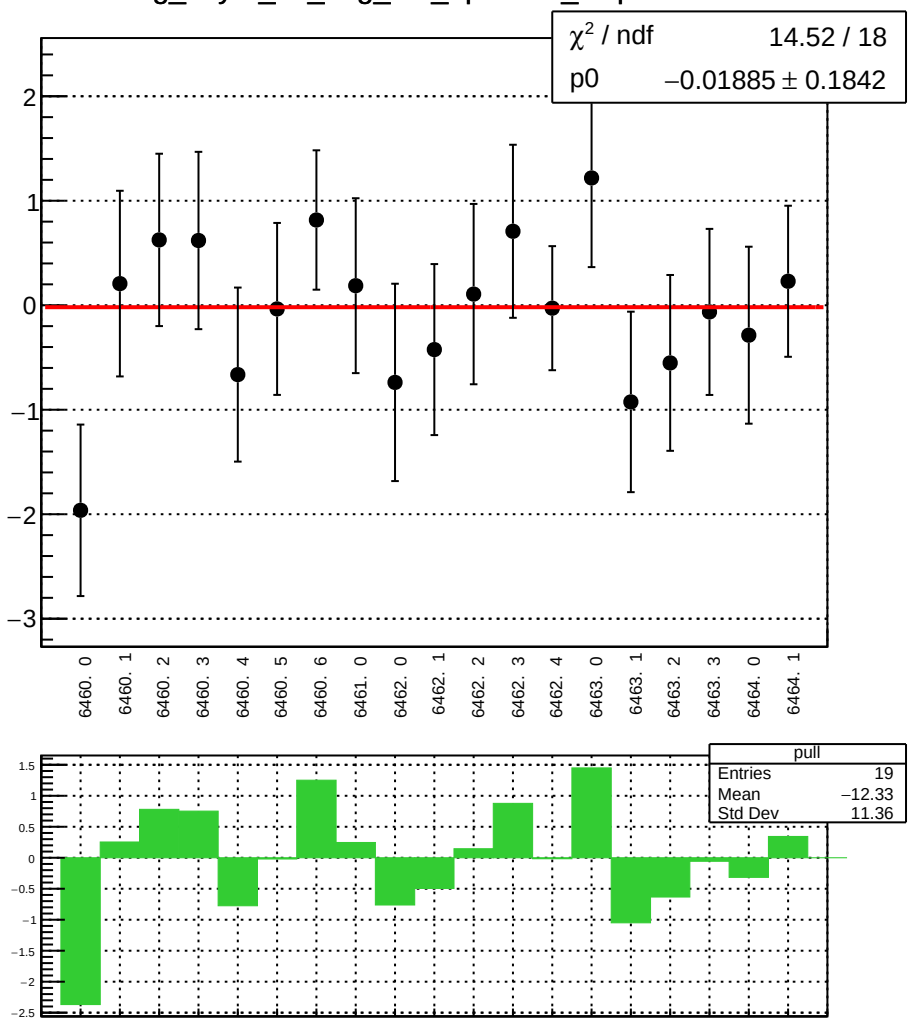

pull1D
Entries 19
Mean 0.04632
Std Dev 1.025
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

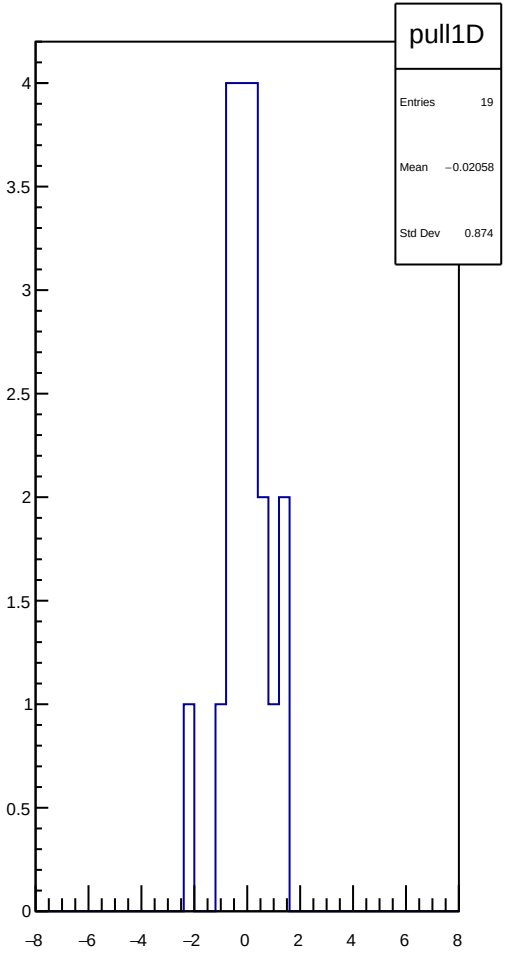

reg_asym_ds_avg_diff_bpm4aX_slope vs run
χ² / ndf 10.04 / 18
p0 −0.04089 ± 0.2674
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 3.559
Std Dev 12.17

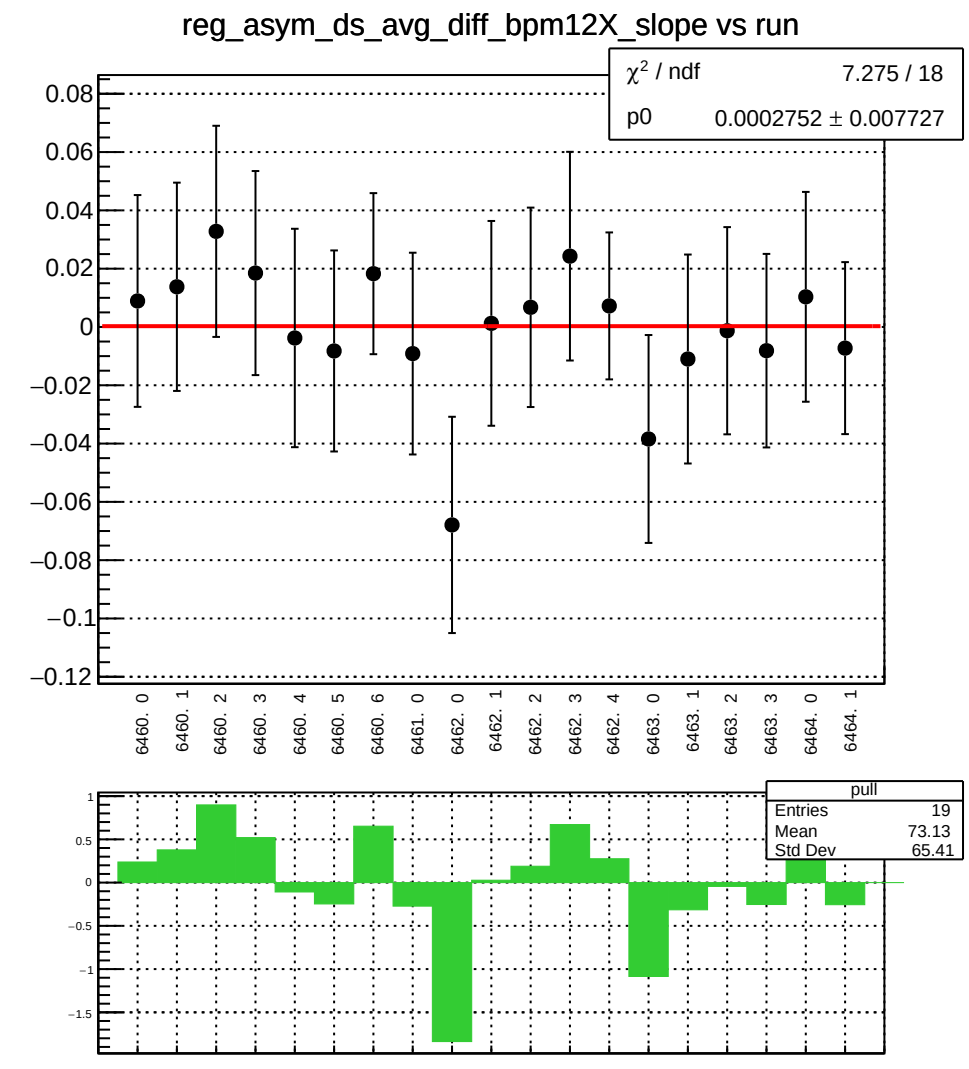

pull1D
Entries 19
Mean −0.01538
Std Dev 0.7268

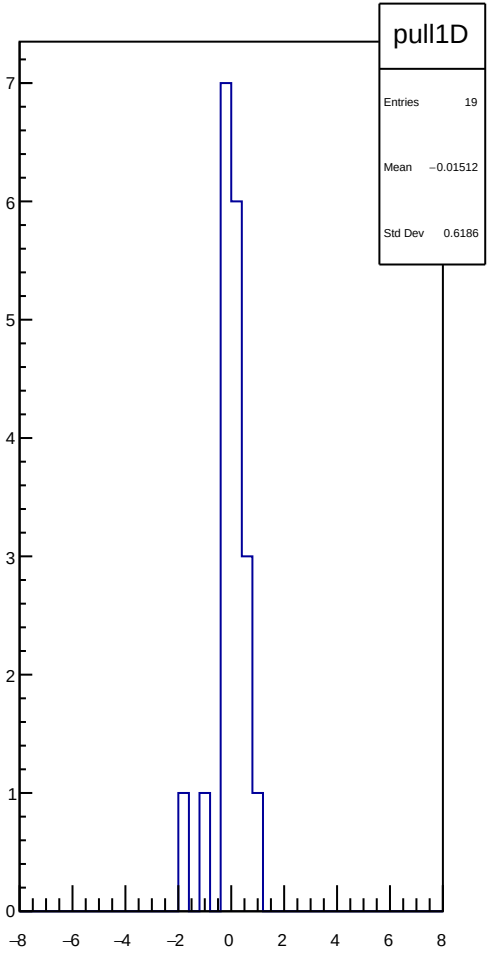

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 16.26 / 18
p0 0.08318 ± 0.1818
3
2
1
0
−1
−2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −4.547
Std Dev 11.07
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 19
Mean 0.02413
Std Dev 0.9246
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

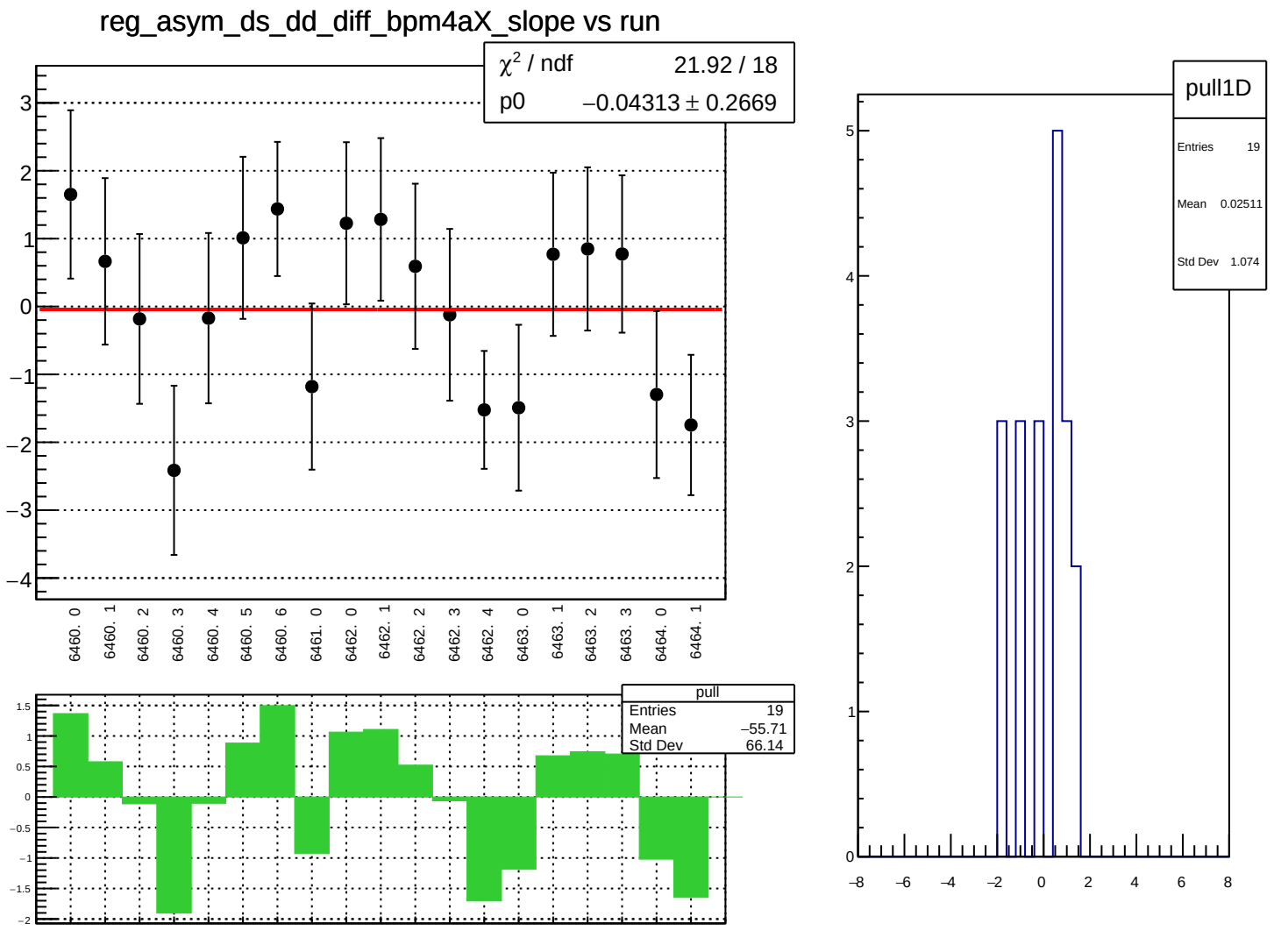

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 10.49 / 18
p0 0.02257 ± 0.2881
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 11.94
Std Dev 14.38
pull1D
Entries 19
Mean 0.01341
Std Dev 0.743

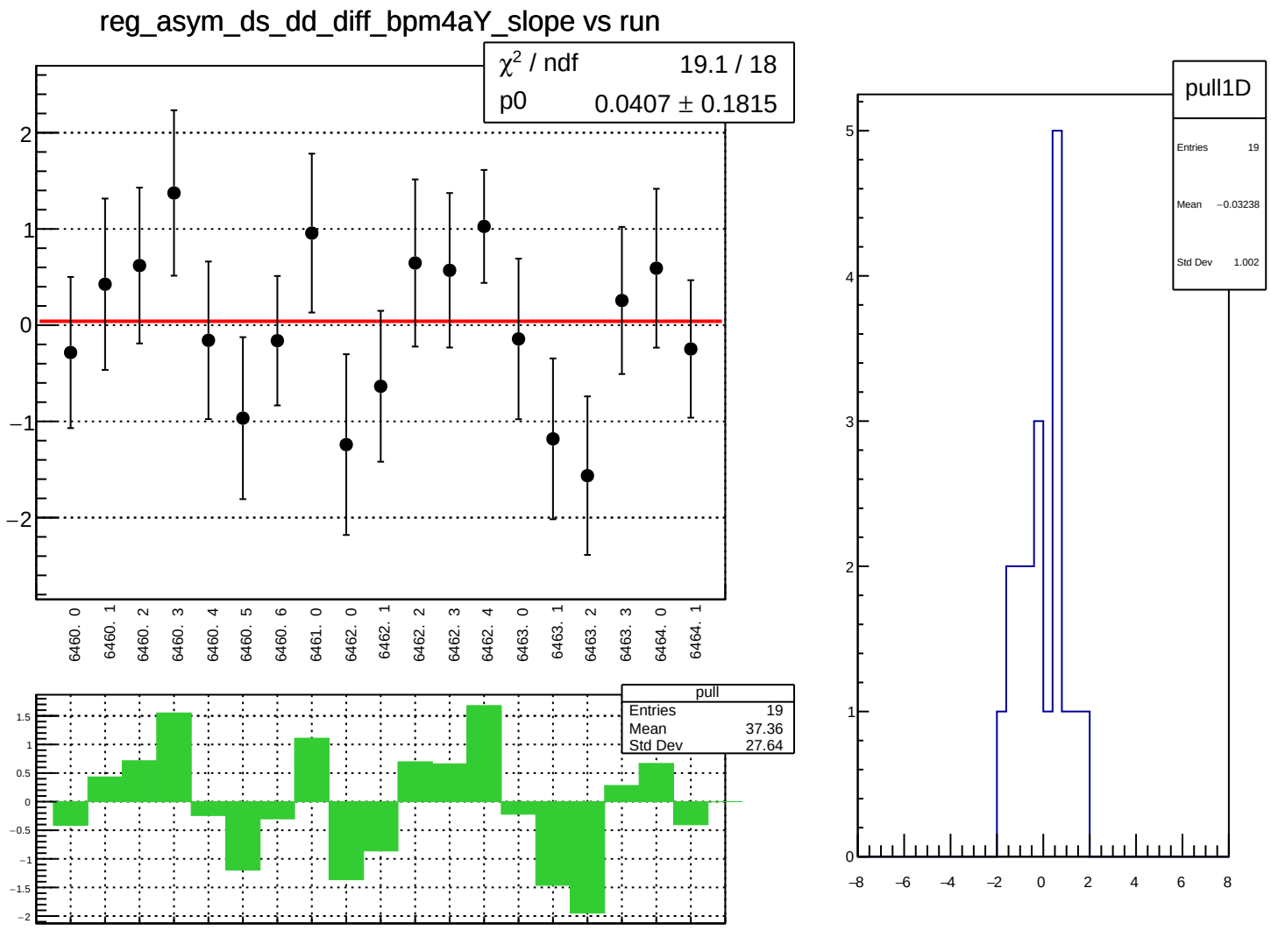

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 14.52 / 18
p0 −0.01885 ± 0.1842
2
1
0
−1
−2
−3
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −12.33
Std Dev 11.36
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

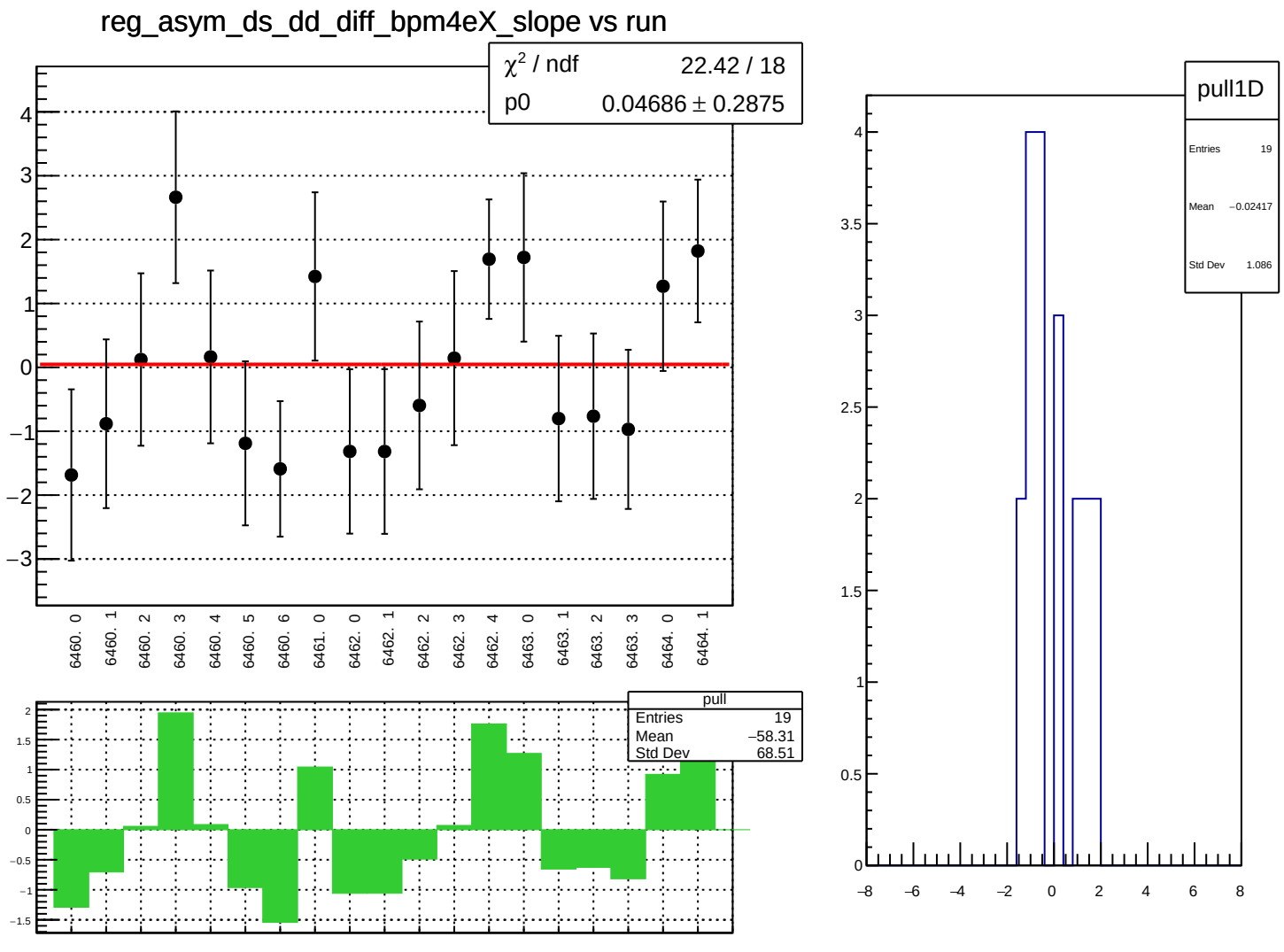

pull1D
Entries 19
Mean −0.02058
Std Dev 0.874
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

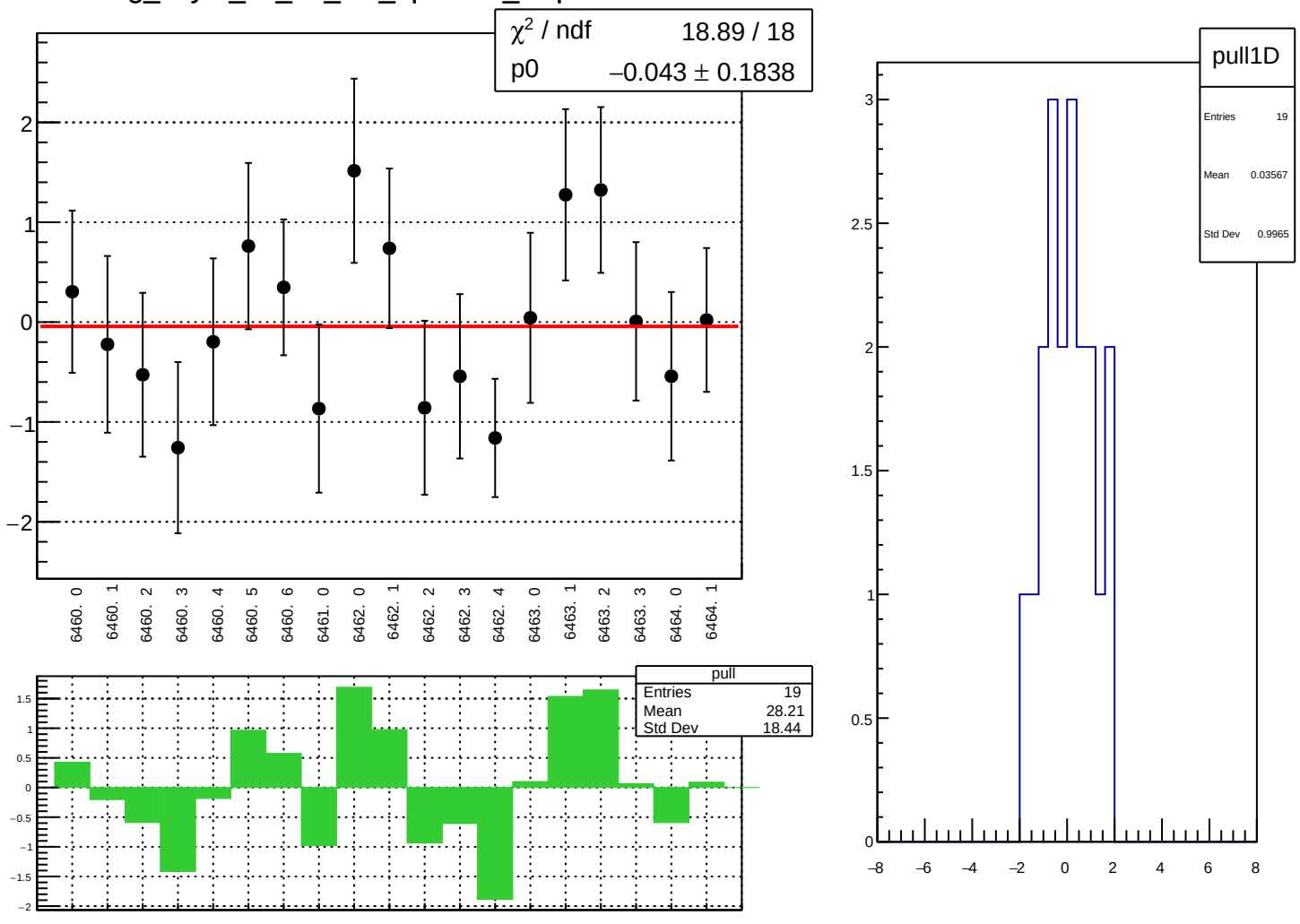

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 7.275 / 18
p0 0.0002752 ± 0.007727
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 73.13
Std Dev 65.41
1
0.5
0
−0.5
−1
−1.5

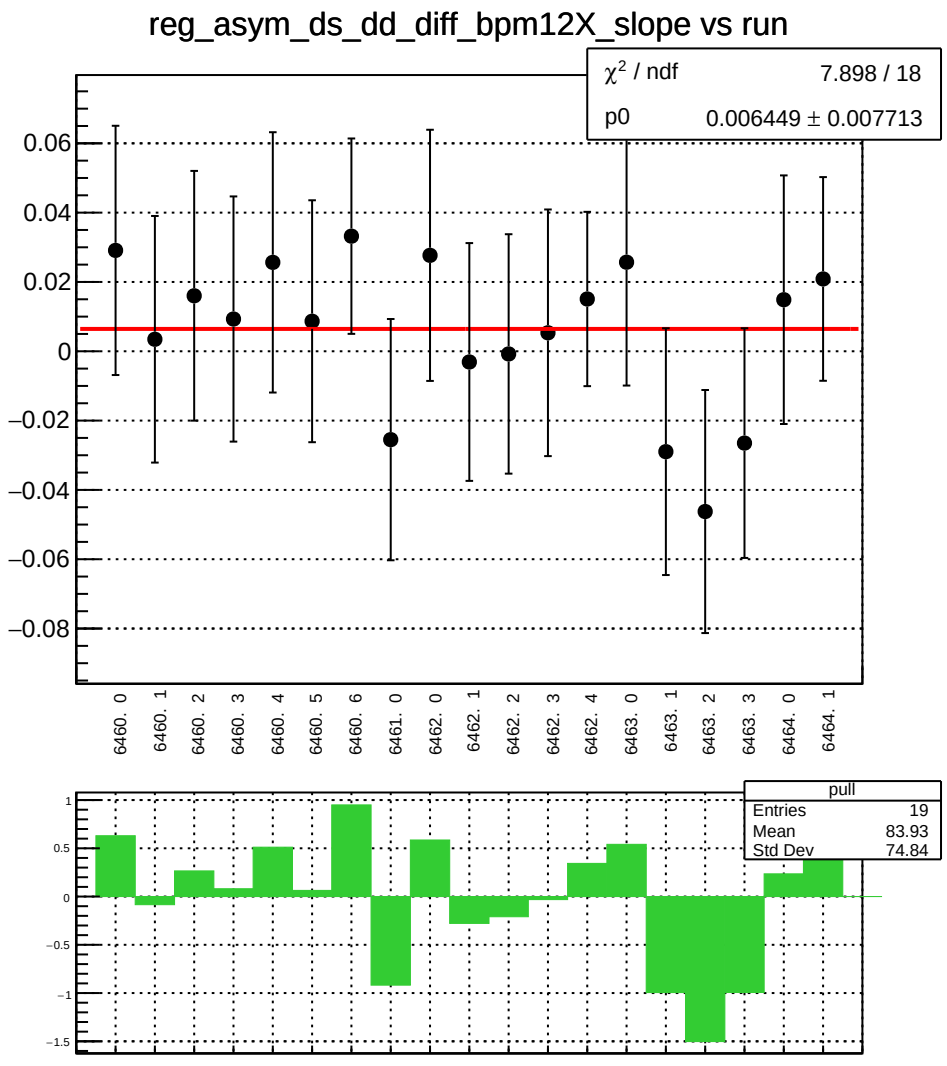

pull1D
Entries 19
Mean −0.01512
Std Dev 0.6186
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

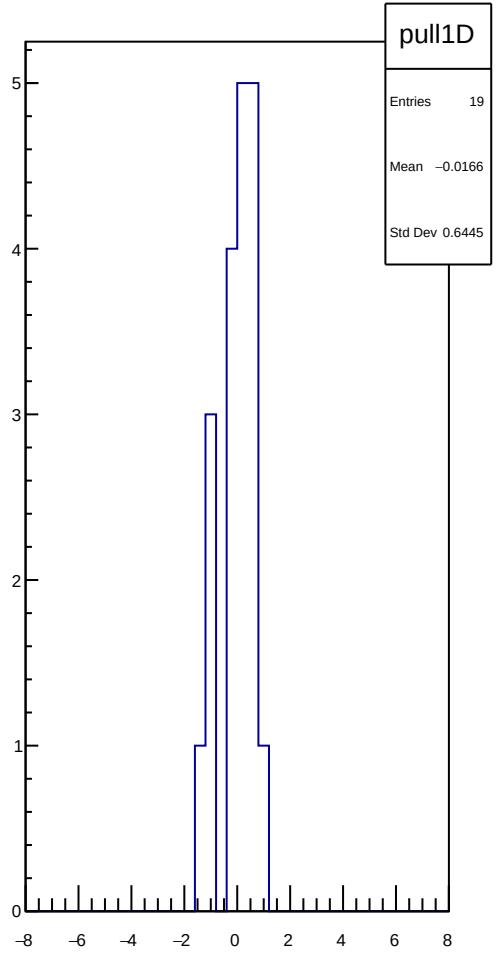

reg_asym_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 21.92 / 18
p0 −0.04313 ± 0.2669
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −55.71
Std Dev 66.14
pull1D
Entries 19
Mean 0.02511
Std Dev 1.074

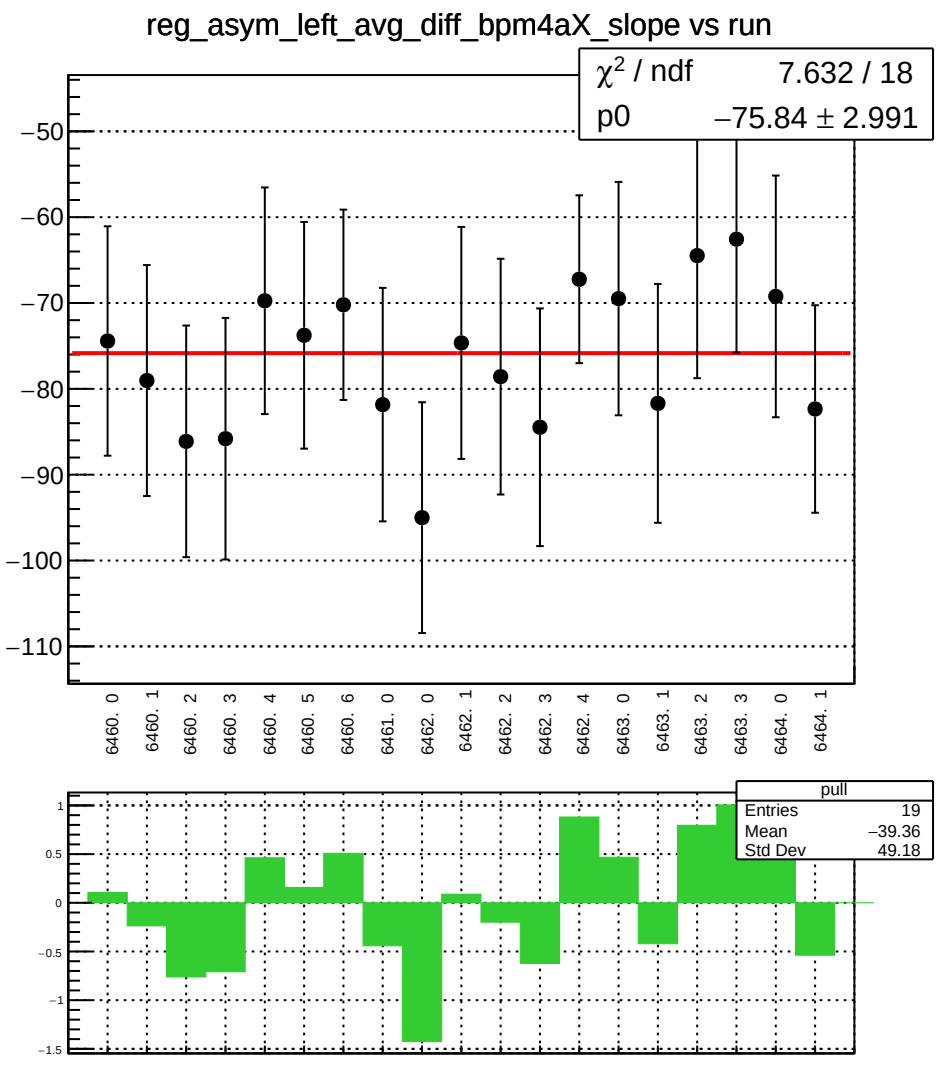

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 19.1 / 18
p0 0.0407 ± 0.1815
2
1
0
−1
−2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 37.36
Std Dev 27.64
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 19
Mean −0.03238
Std Dev 1.002
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

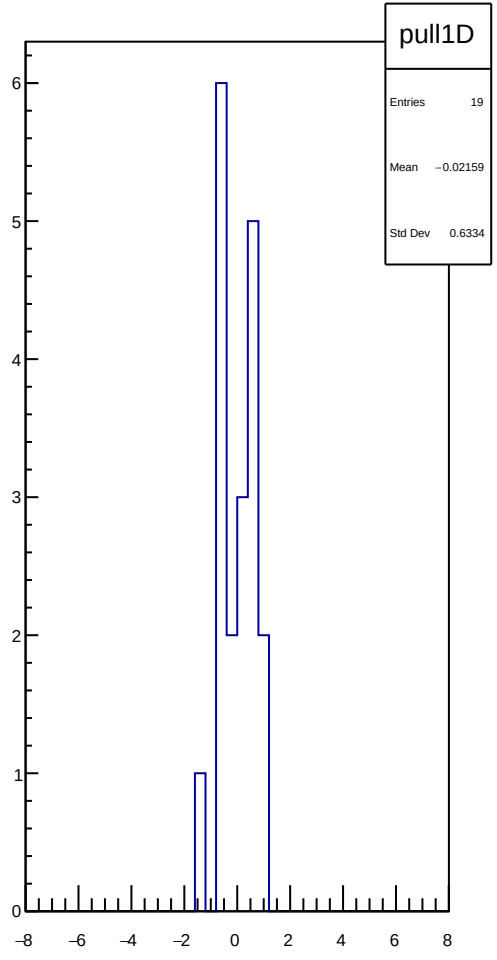

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 22.42 / 18
p0 0.04686 ± 0.2875
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −58.31
Std Dev 68.51
pull1D
Entries 19
Mean −0.02417
Std Dev 1.086

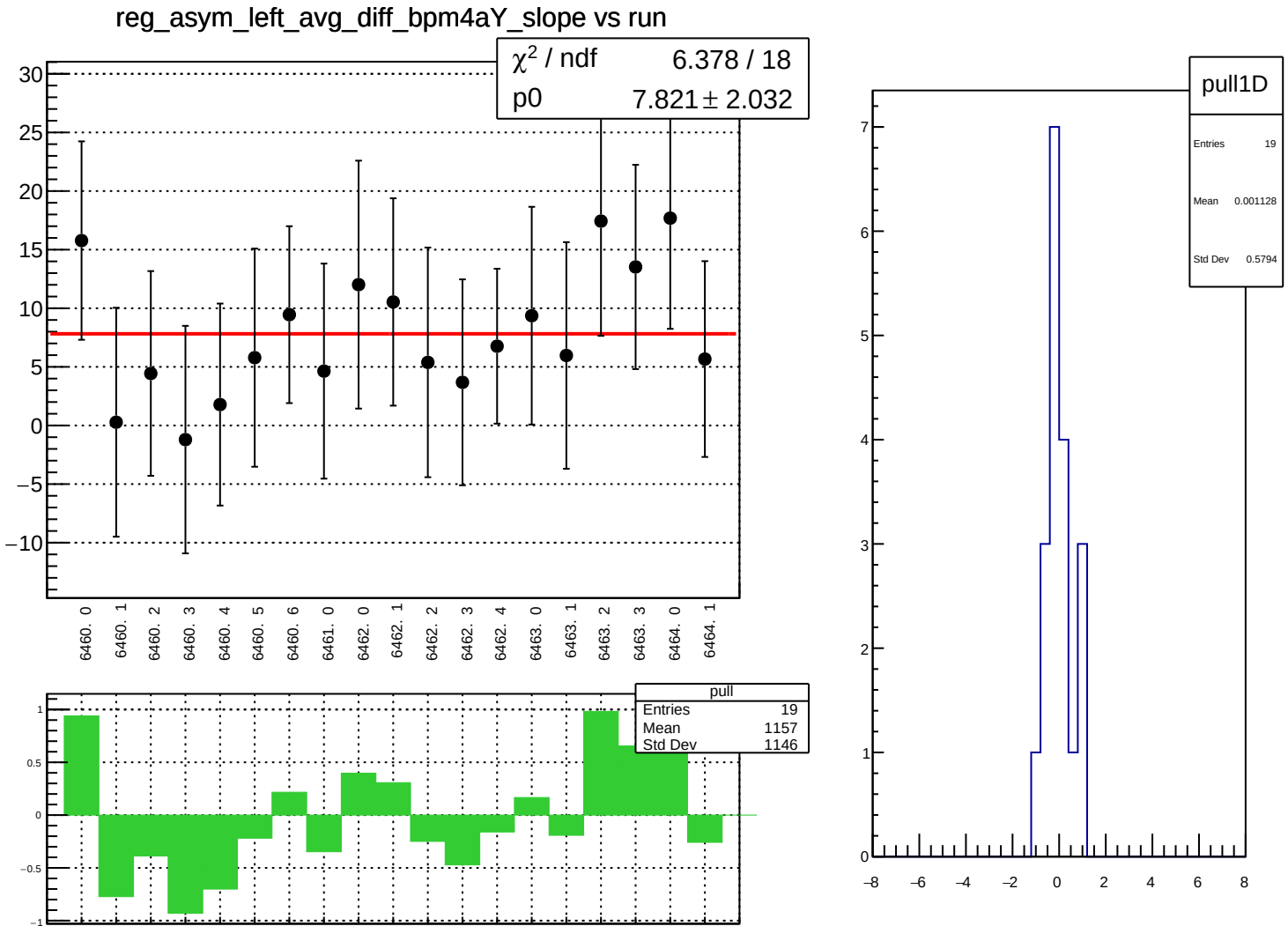

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 18.89 / 18
p0 −0.043 ± 0.1838
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 28.21
Std Dev 18.44
pull1D
Entries 19
Mean 0.03567
Std Dev 0.9965

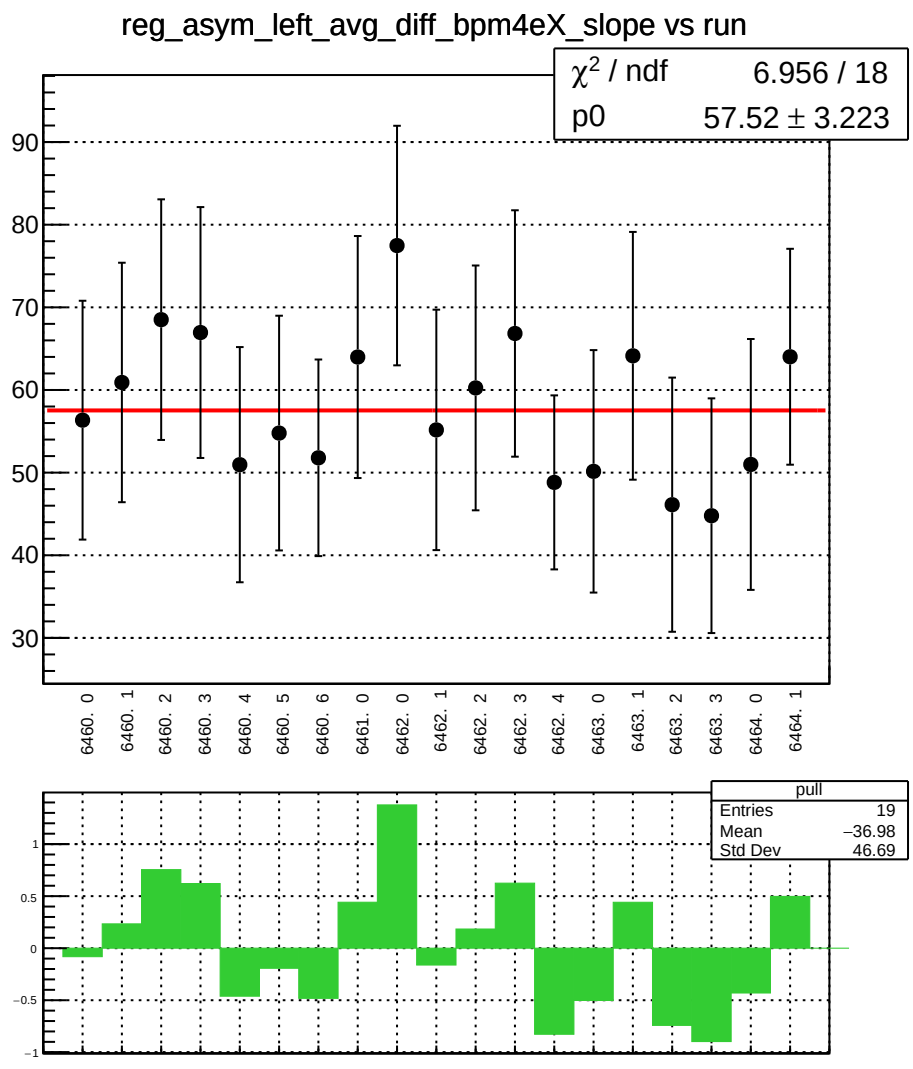

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 7.898 / 18
p0 0.006449 ± 0.007713
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 83.93
Std Dev 74.84
1
0.5
0
−0.5
−1
−1.5

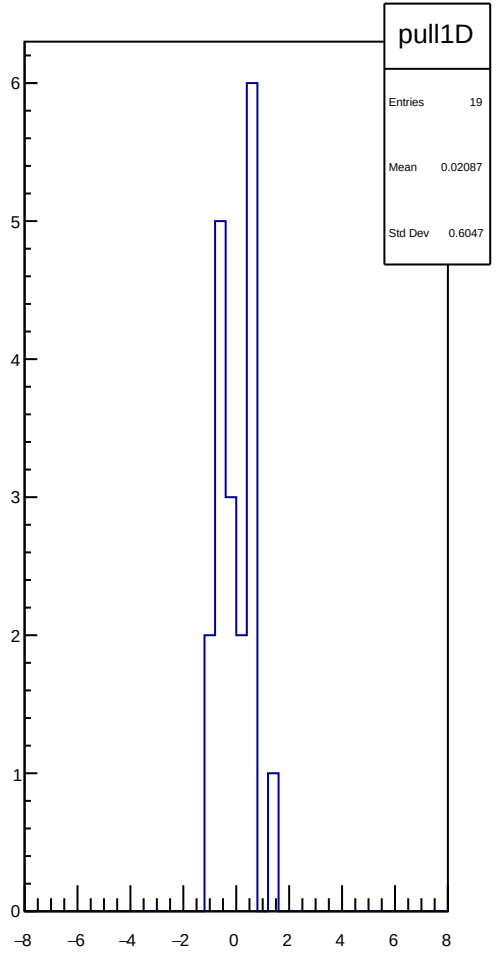

pull1D
Entries 19
Mean −0.0166
Std Dev 0.6445
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

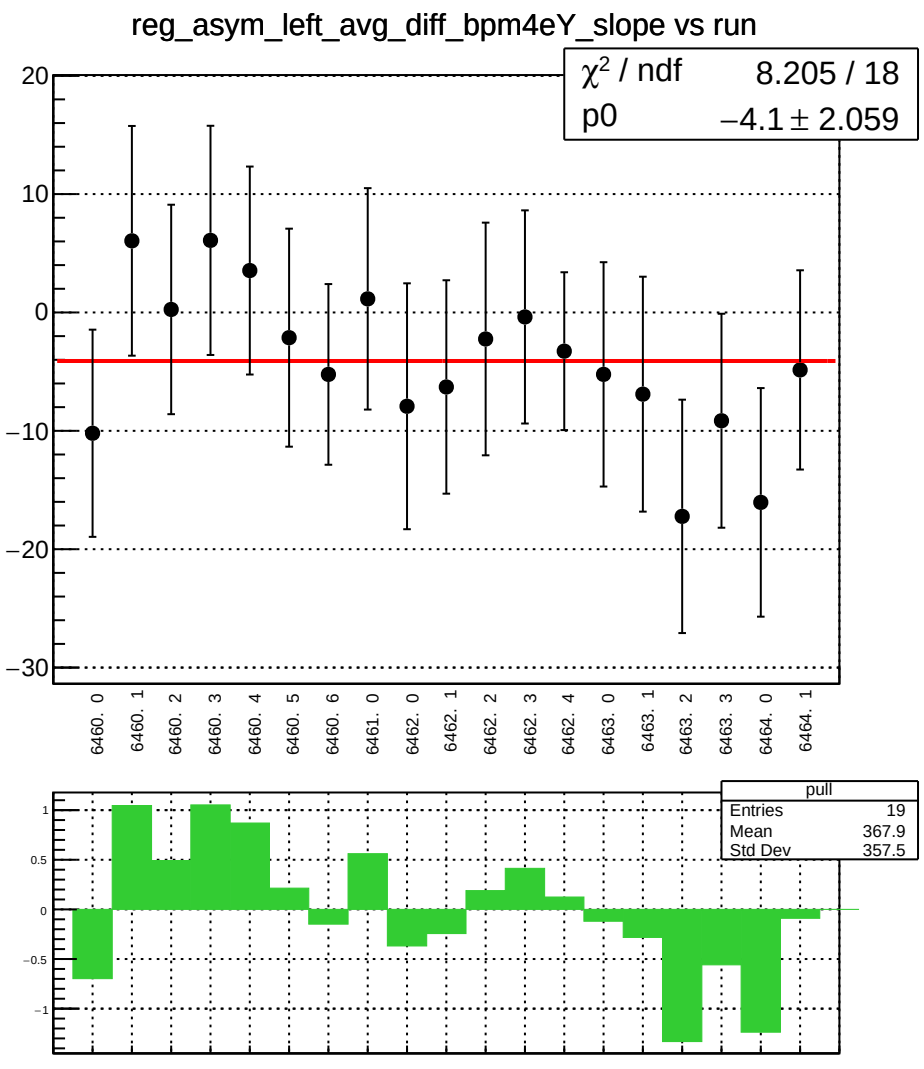

reg_asym_left_avg_diff_bpm4aX_slope vs run
χ² / ndf 7.632 / 18
p0 −75.84 ± 2.991
−50
−60
−70
−80
−90
−100
−110
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −39.36
Std Dev 49.18
1
0.5
0
−0.5
−1
−1.5

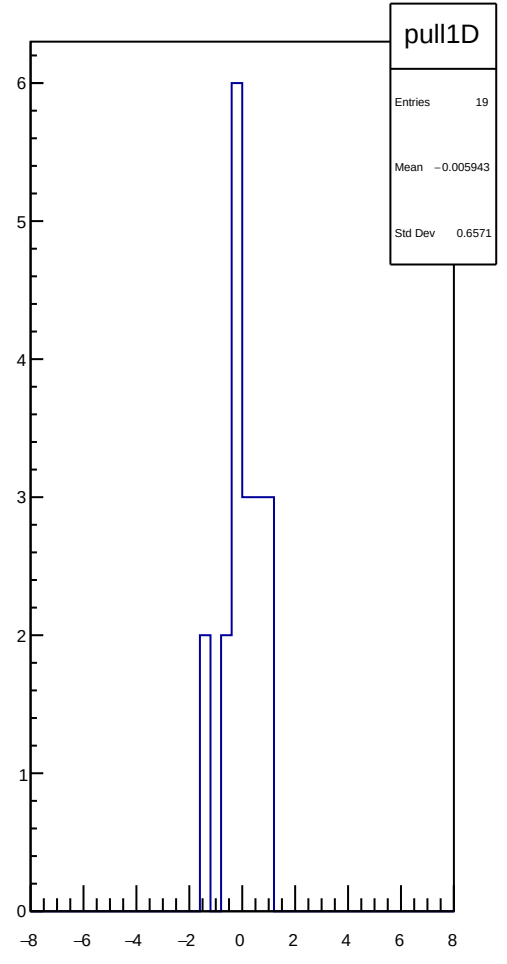

pull1D
Entries 19
Mean −0.02159
Std Dev 0.6334
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

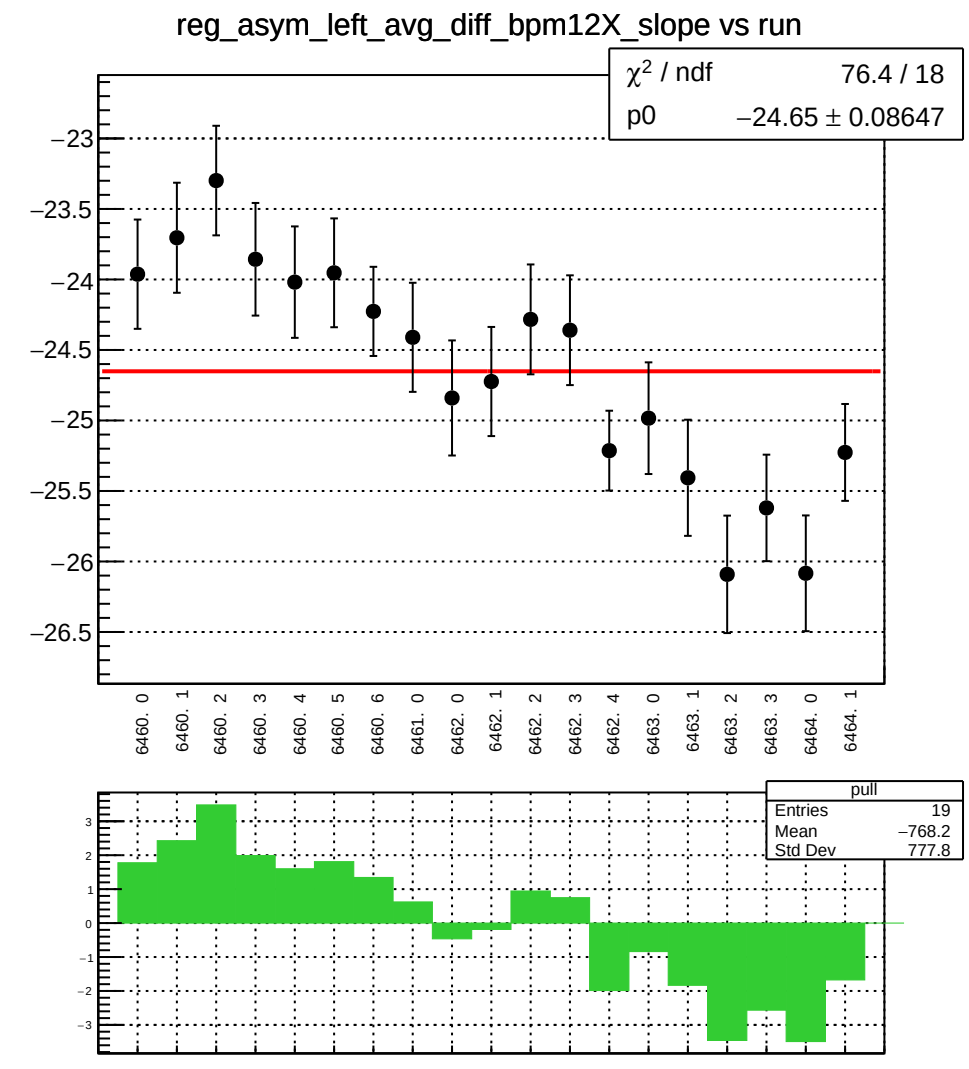

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.378 / 18
p0 7.821 ± 2.032
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 1157
Std Dev 1146
pull1D
Entries 19
Mean 0.001128
Std Dev 0.5794

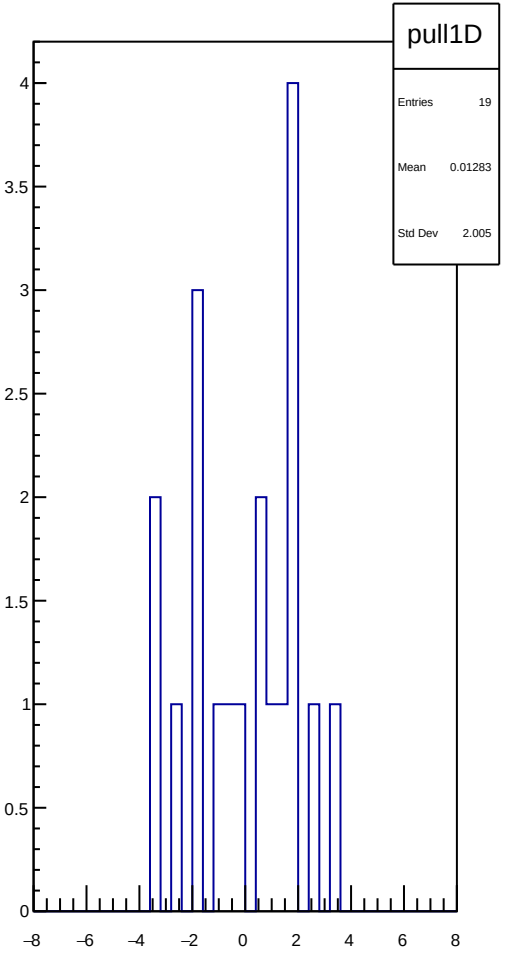

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.956 / 18
p0 57.52 ± 3.223
90
80
70
60
50
40
30
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −36.98
Std Dev 46.69
1
0.5
0
−0.5
−1

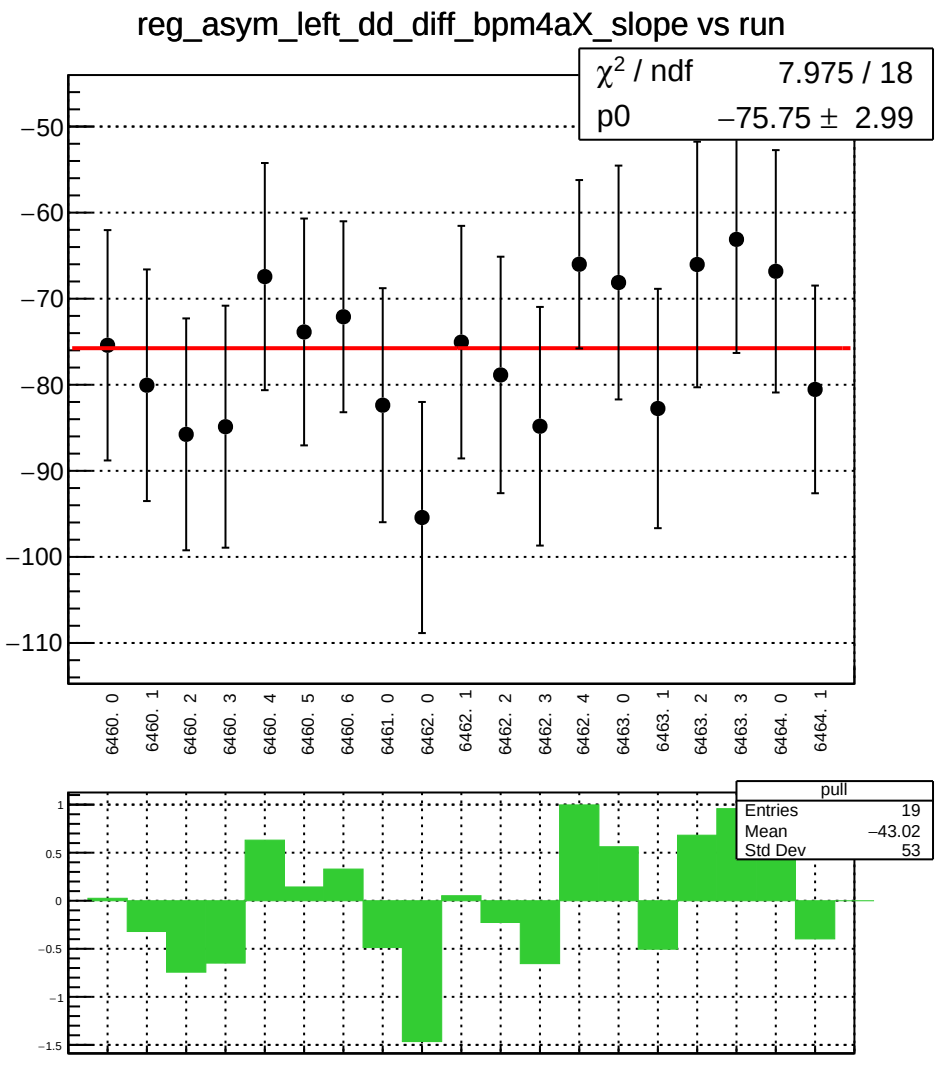

pull1D
Entries 19
Mean 0.02087
Std Dev 0.6047
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

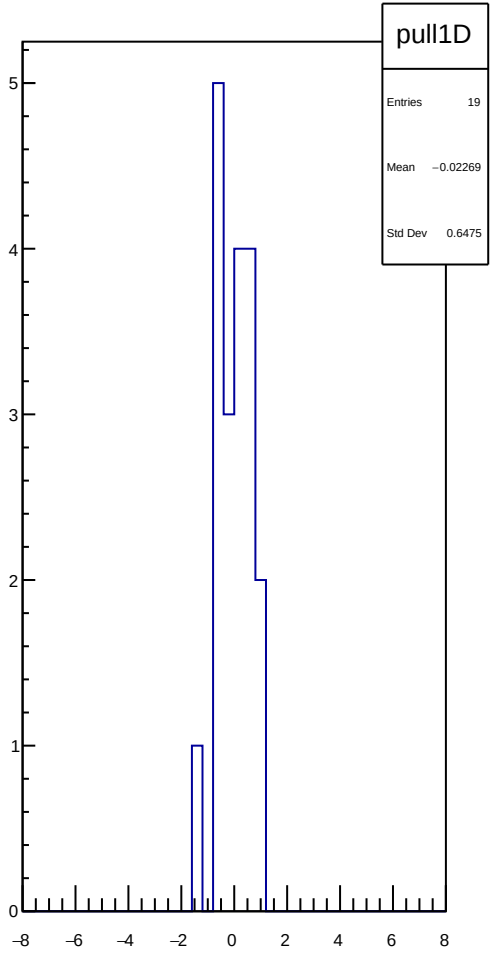

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.205 / 18
p0 −4.1 ± 2.059
20
10
0
−10
−20
−30
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 367.9
Std Dev 357.5
1
0.5
0
−0.5
−1

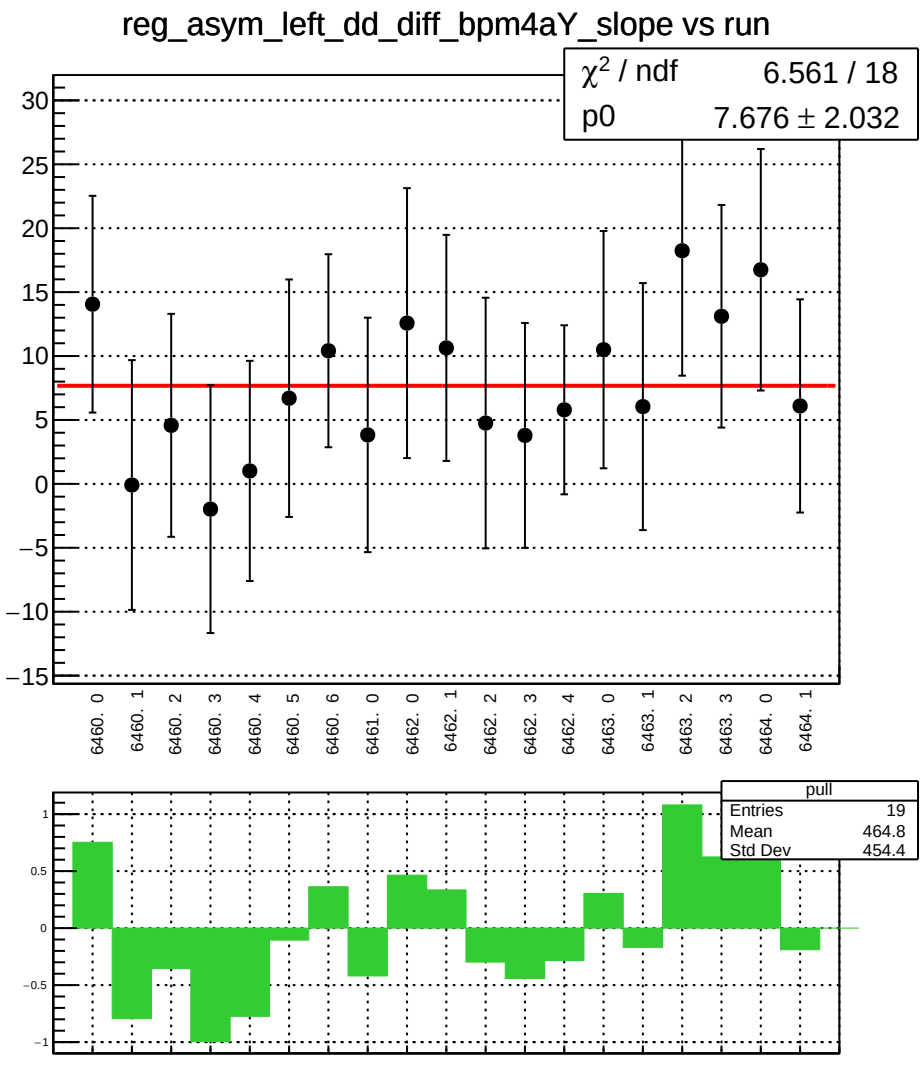

pull1D
Entries 19
Mean −0.005943
Std Dev 0.6571
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

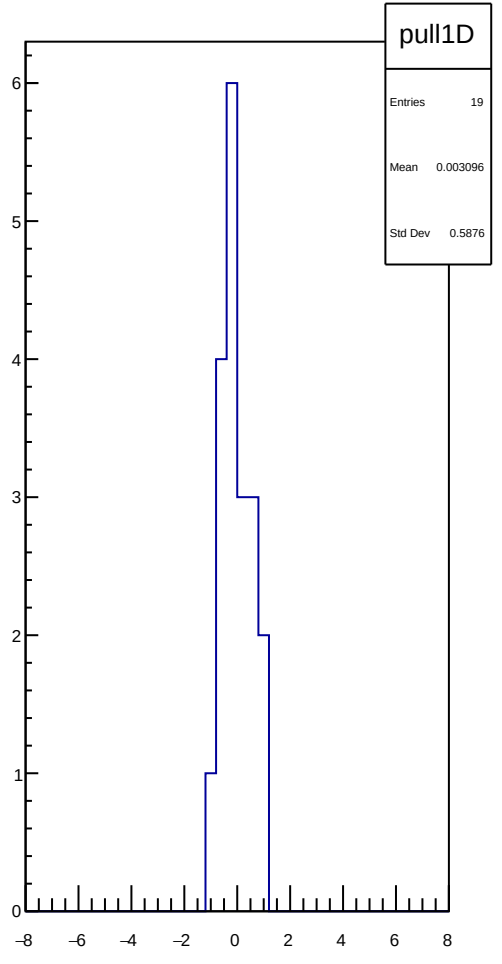

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 76.4 / 18
p0 −24.65 ± 0.08647
−23
−23.5
−24
−24.5
−25
−25.5
−26
−26.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −768.2
Std Dev 777.8
3
2
1
0
−1
−2
−3

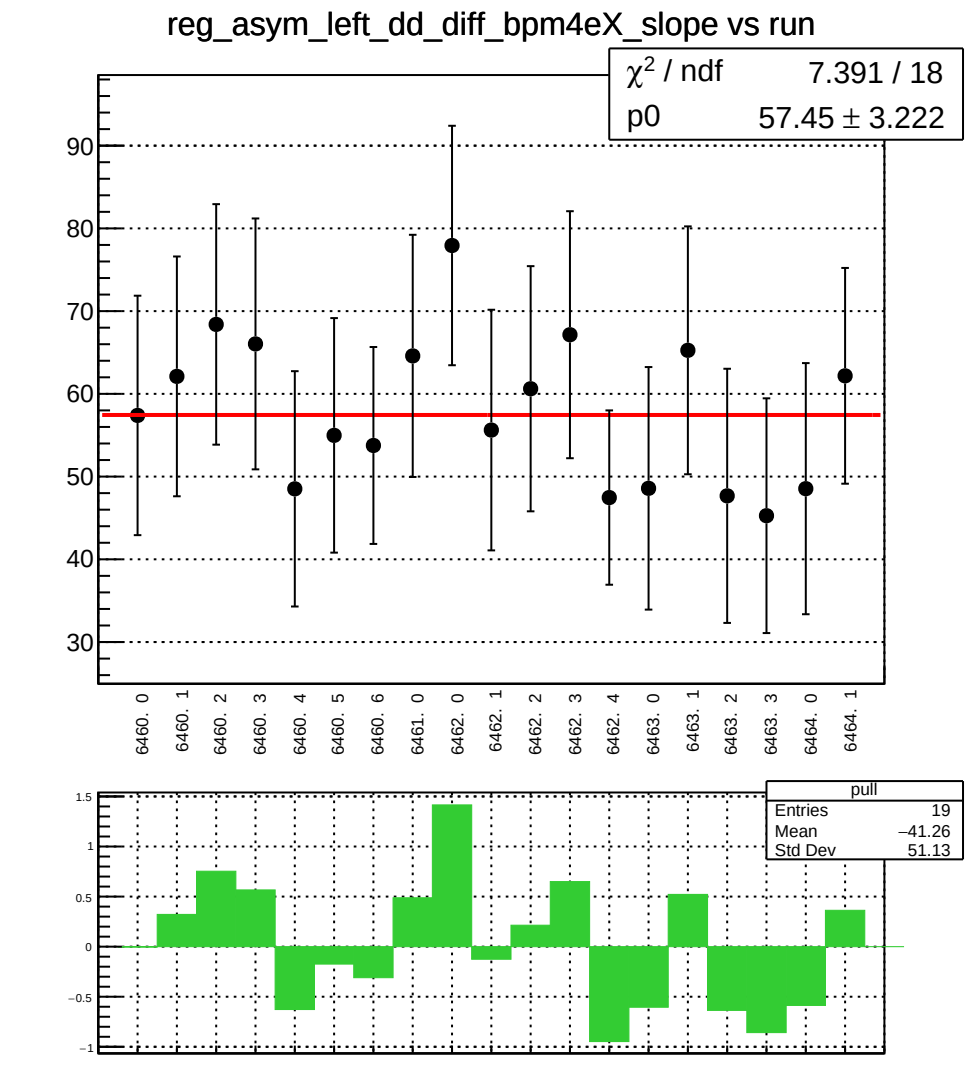

pull1D
Entries 19
Mean 0.01283
Std Dev 2.005
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

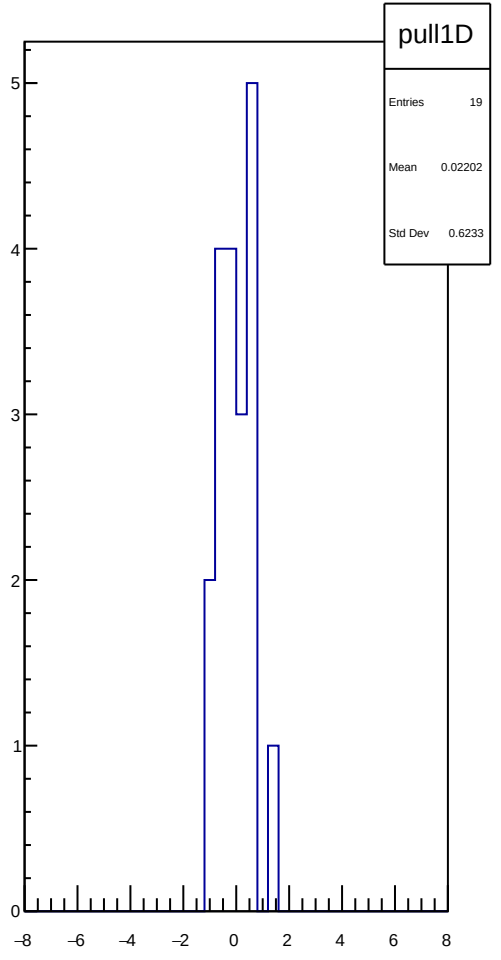

reg_asym_left_dd_diff_bpm4aX_slope vs run
χ² / ndf 7.975 / 18
p0 −75.75 ± 2.99
−50
−60
−70
−80
−90
−100
−110
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −43.02
Std Dev 53
1
0.5
0
−0.5
−1
−1.5

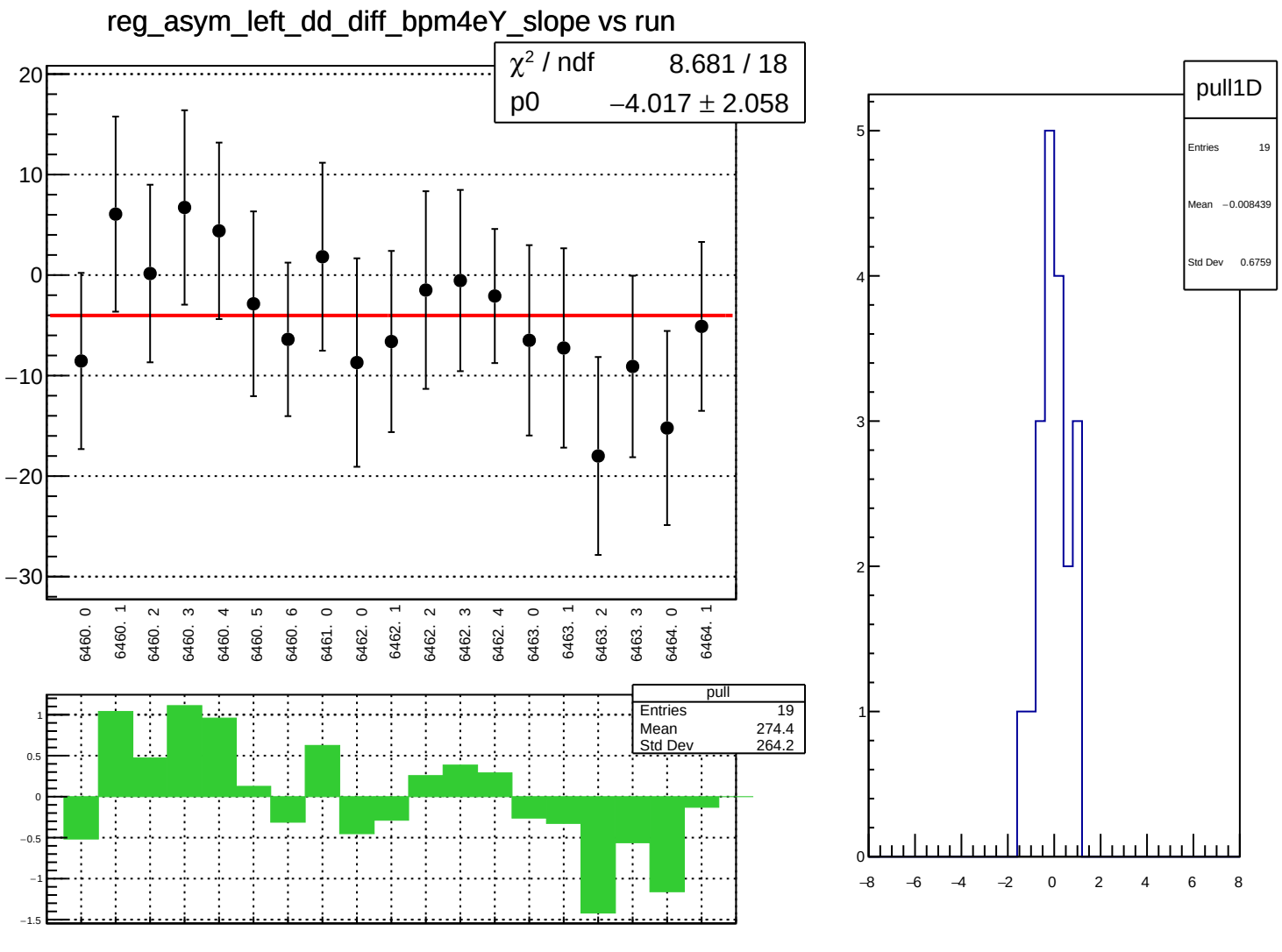

pull1D
Entries 19
Mean −0.02269
Std Dev 0.6475
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

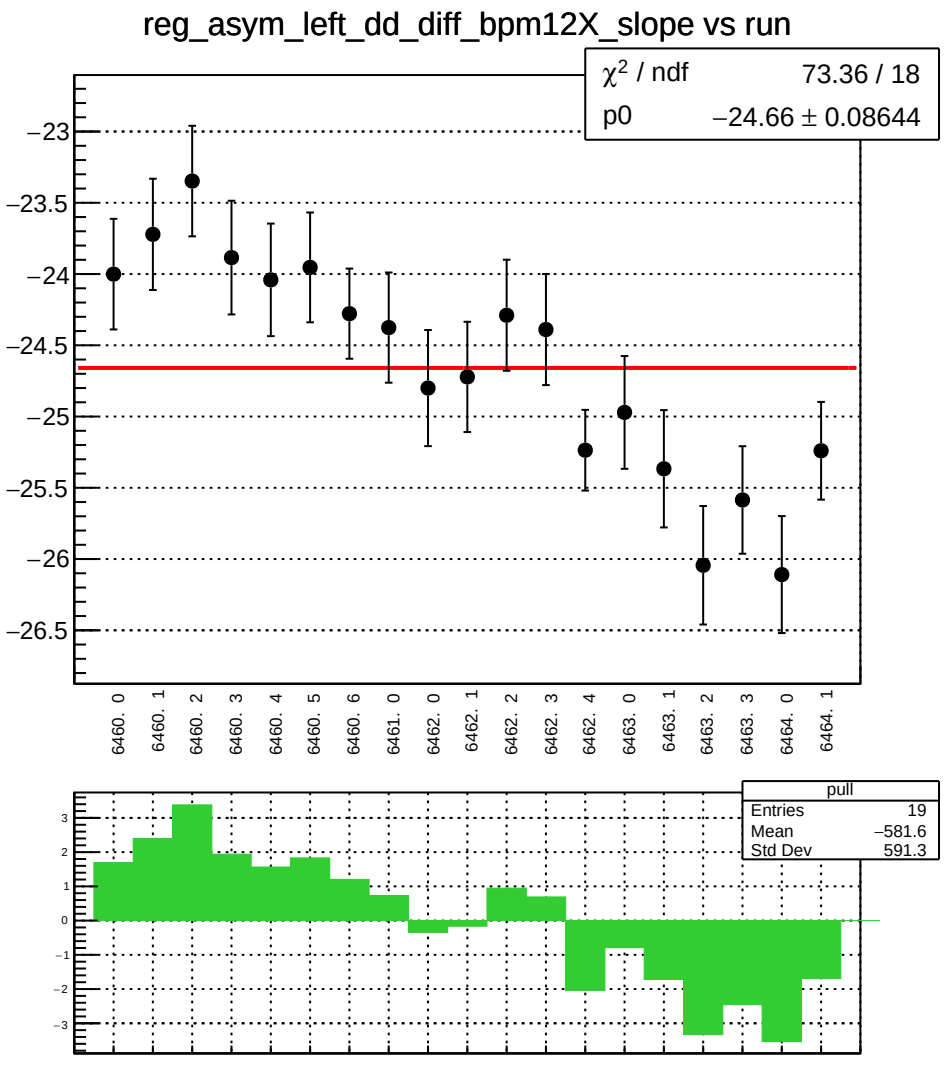

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.561 / 18
p0 7.676 ± 2.032
30
25
20
15
10
5
0
−5
−10
−15
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 464.8
Std Dev 454.4
1
0.5
0
−0.5
−1

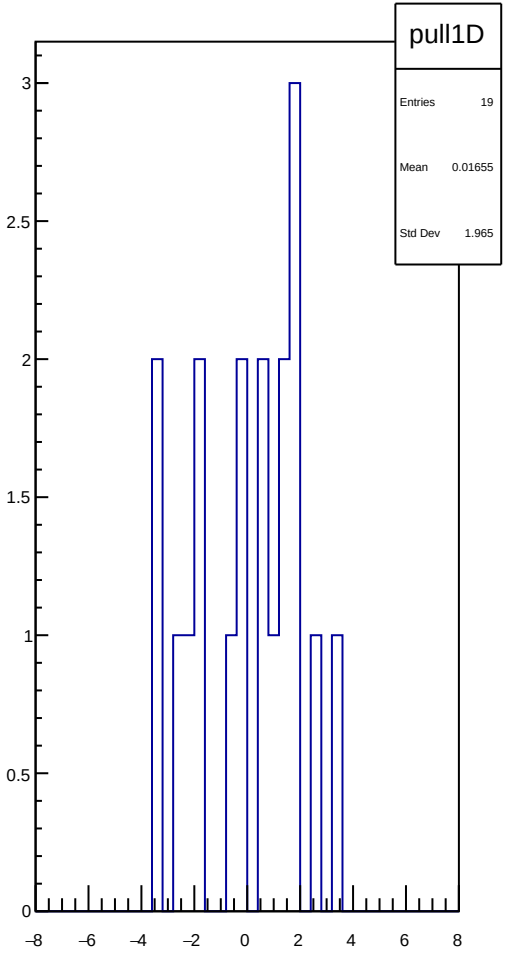

pull1D
Entries 19
Mean 0.003096
Std Dev 0.5876
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

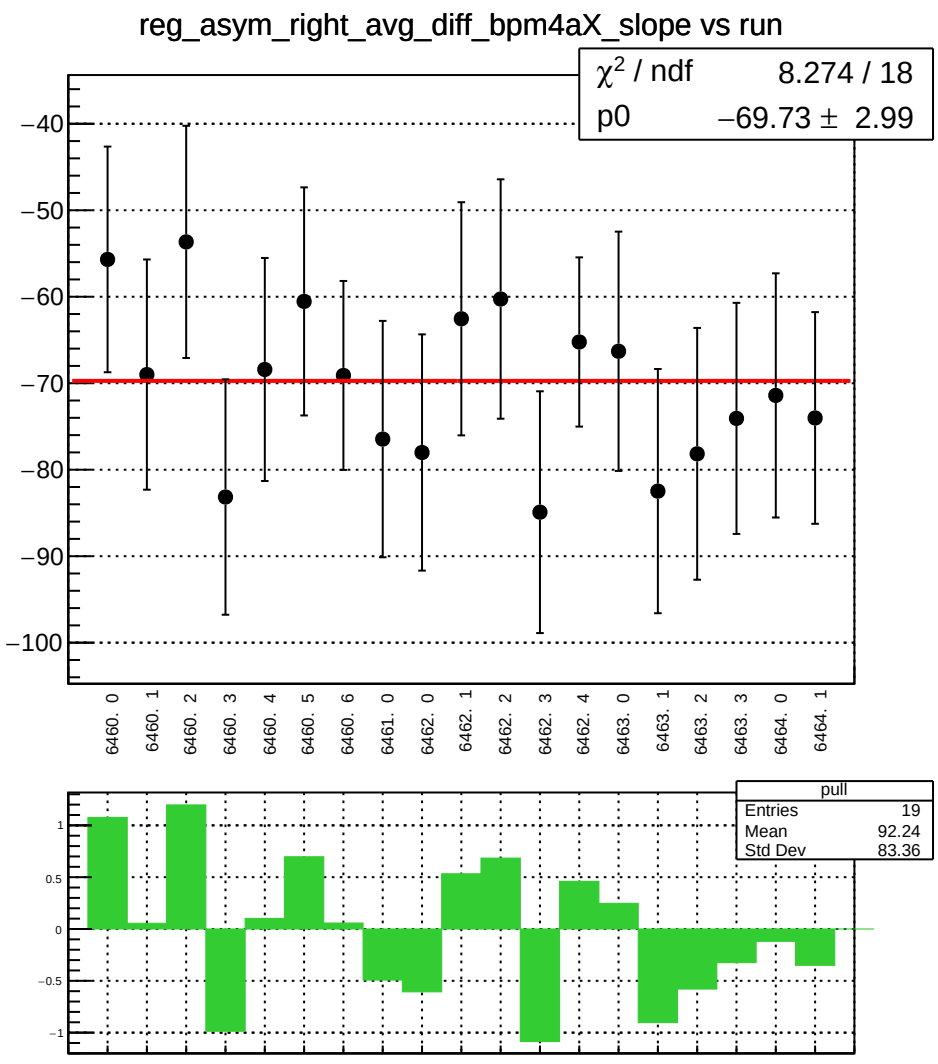

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.391 / 18
p0 57.45 ± 3.222
90
80
70
60
50
40
30
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −41.26
Std Dev 51.13
1.5
1
0.5
0
−0.5
−1

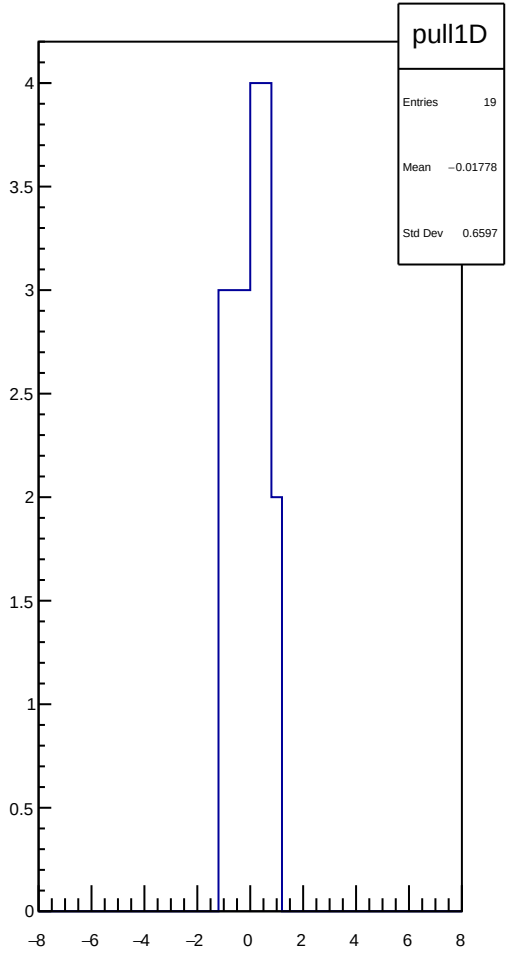

pull1D
Entries 19
Mean 0.02202
Std Dev 0.6233
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

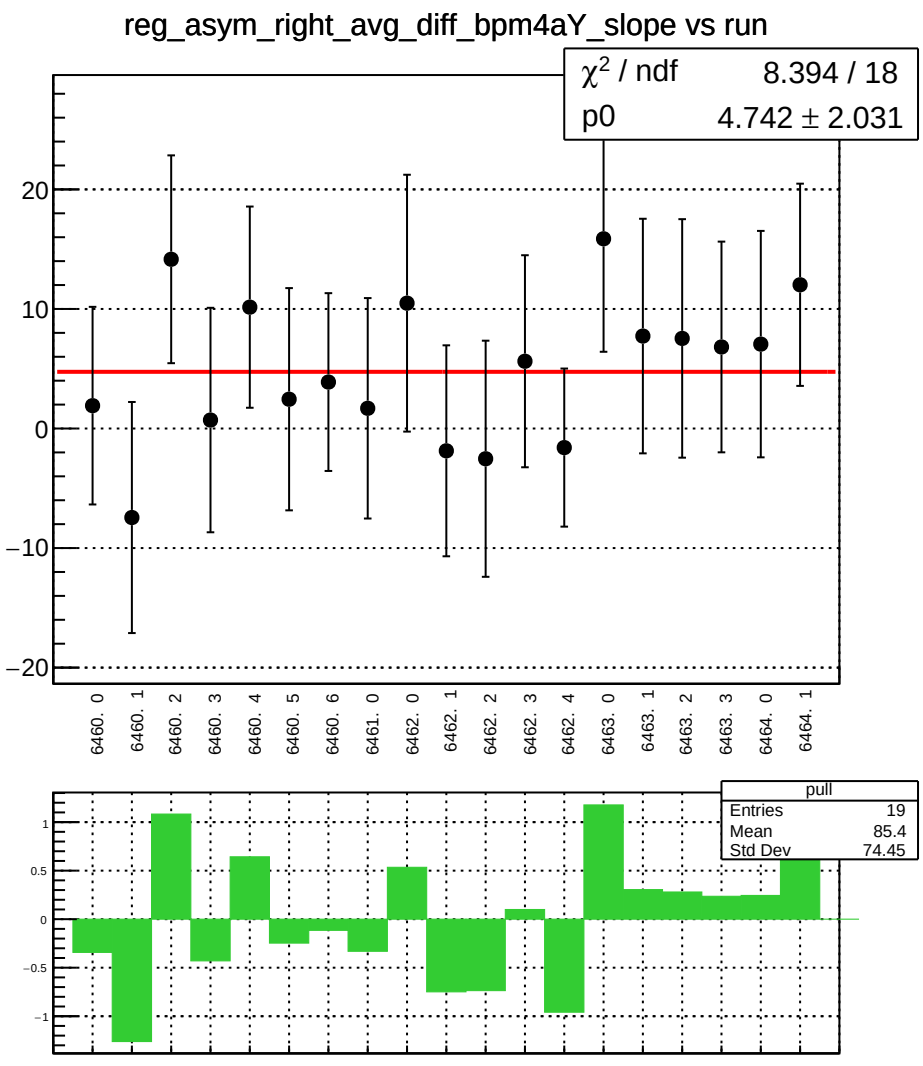

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.681 / 18
p0 −4.017 ± 2.058
20
10
0
−10
−20
−30
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 274.4
Std Dev 264.2
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 19
Mean −0.008439
Std Dev 0.6759
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

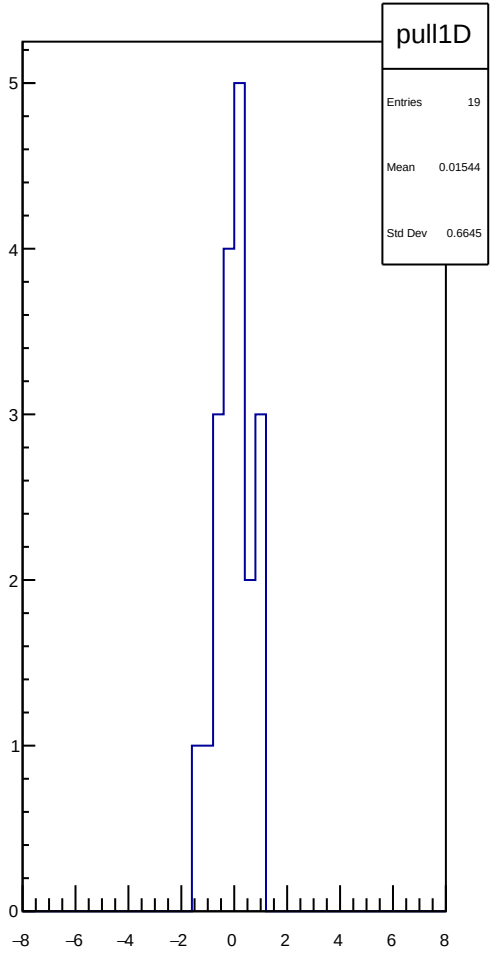

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 73.36 / 18
p0 −24.66 ± 0.08644
−23
−23.5
−24
−24.5
−25
−25.5
−26
−26.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −581.6
Std Dev 591.3
3
2
1
0
−1
−2
−3

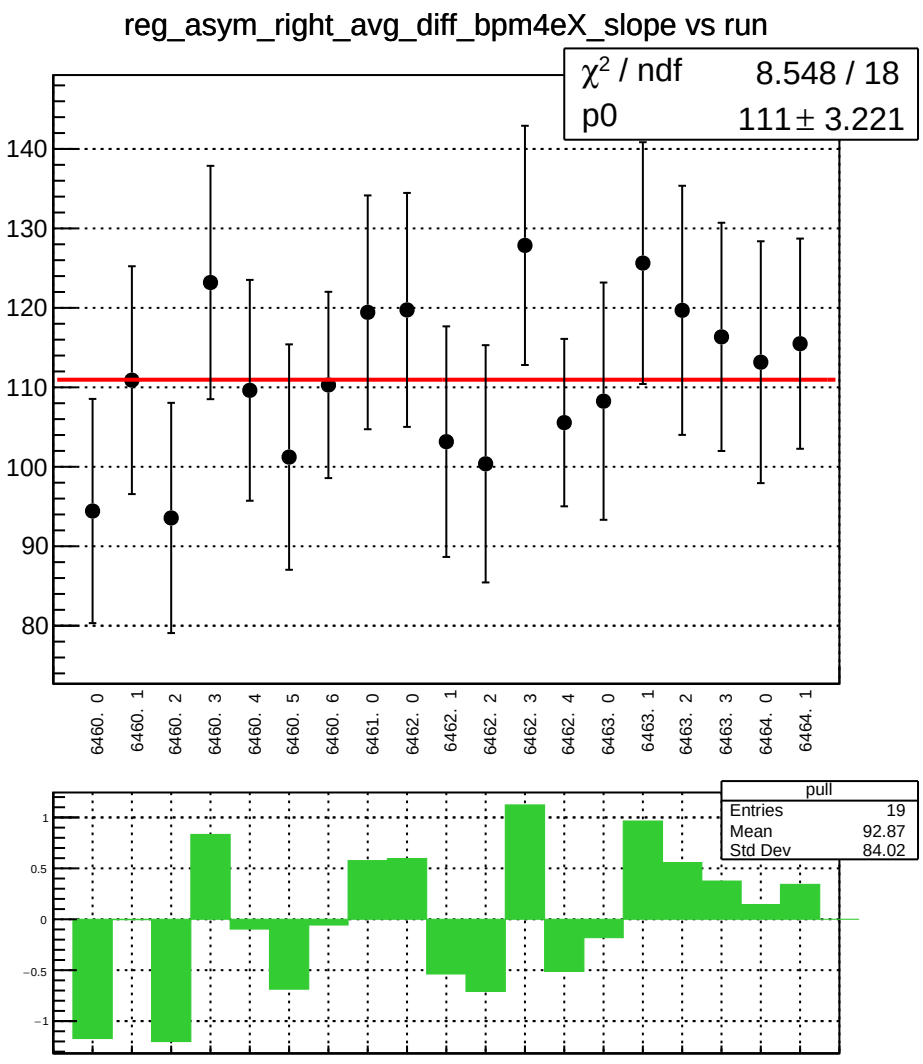

pull1D
Entries 19
Mean 0.01655
Std Dev 1.965
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

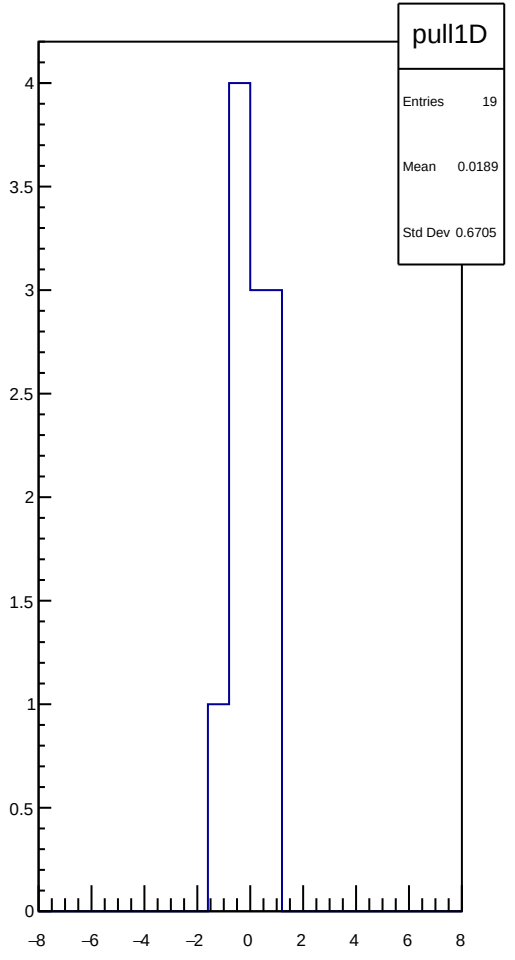

reg_asym_right_avg_diff_bpm4aX_slope vs run
χ² / ndf 8.274 / 18
p0 −69.73 ± 2.99
−40
−50
−60
−70
−80
−90
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 92.24
Std Dev 83.36
1
0.5
0
−0.5
−1

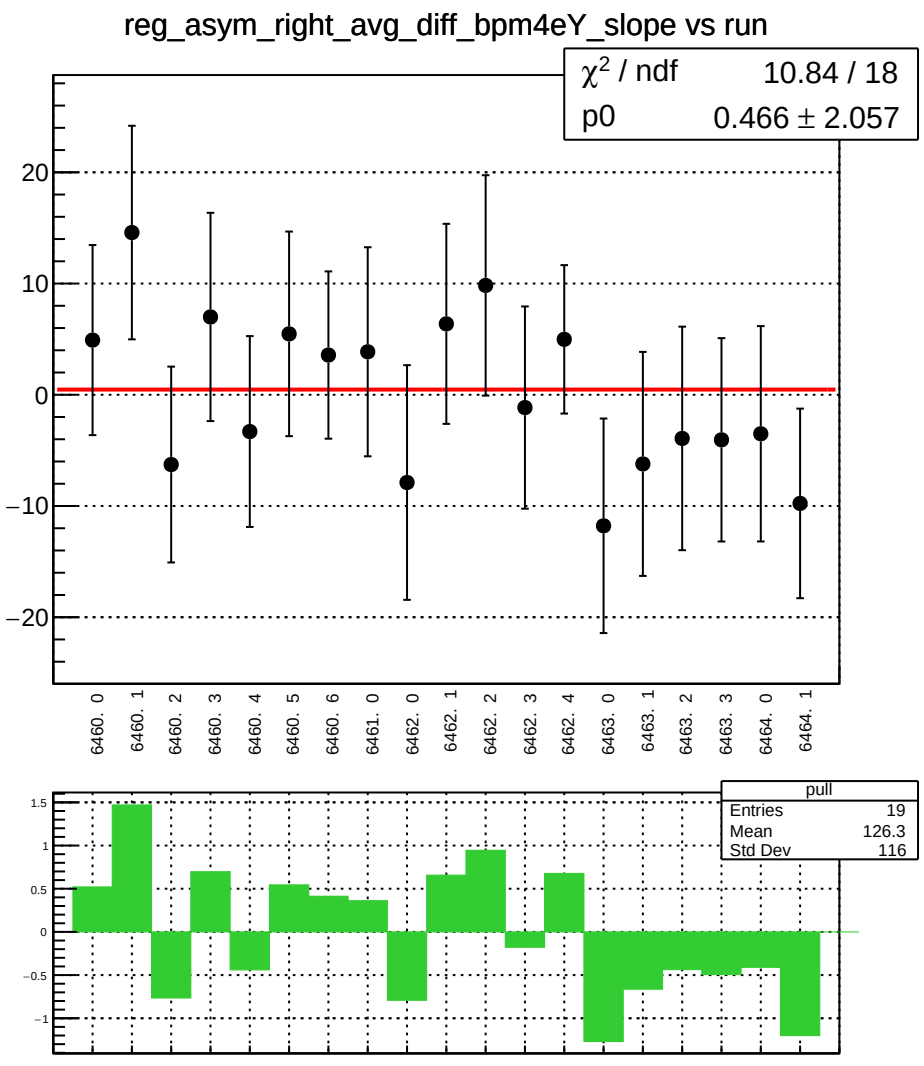

pull1D
Entries 19
Mean −0.01778
Std Dev 0.6597
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

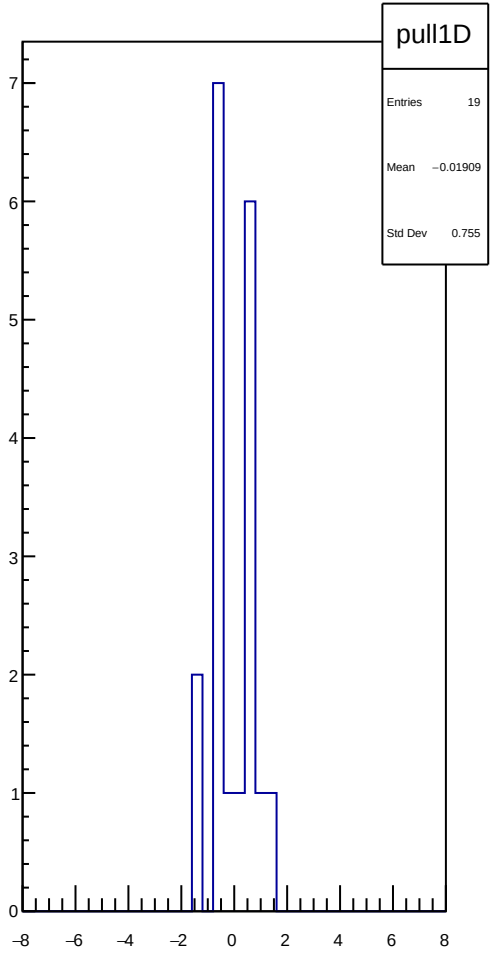

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.394 / 18
p0 4.742 ± 2.031
20
10
0
−10
−20
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 85.4
Std Dev 74.45
1
0.5
0
−0.5
−1

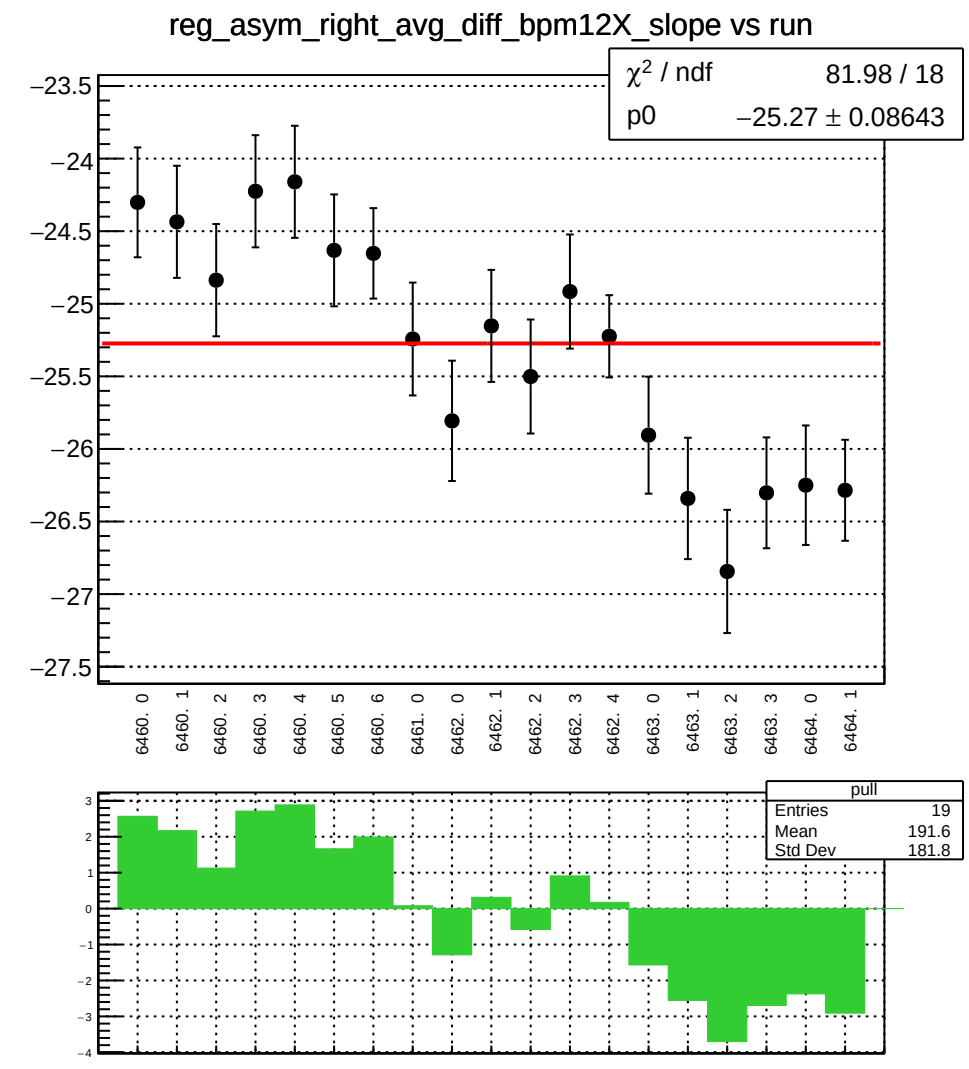

pull1D
Entries 19
Mean 0.01544
Std Dev 0.6645
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

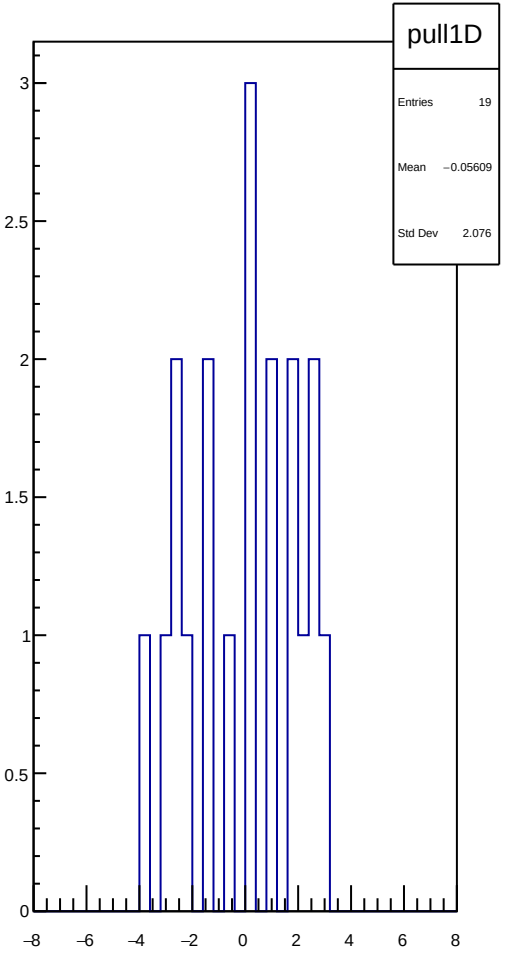

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 8.548 / 18
p0 111 ± 3.221
140
130
120
110
100
90
80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 92.87
Std Dev 84.02
1
0.5
0
−0.5
−1

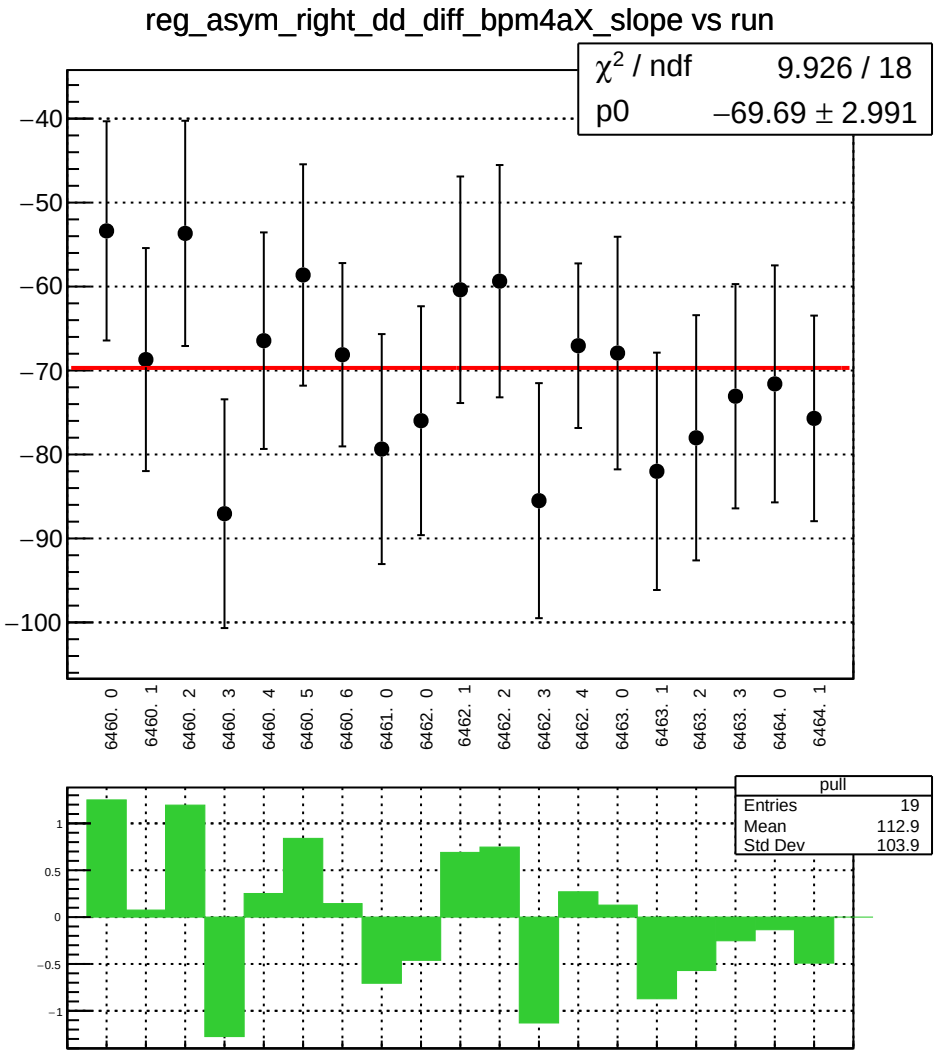

pull1D
Entries 19
Mean 0.0189
Std Dev 0.6705
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

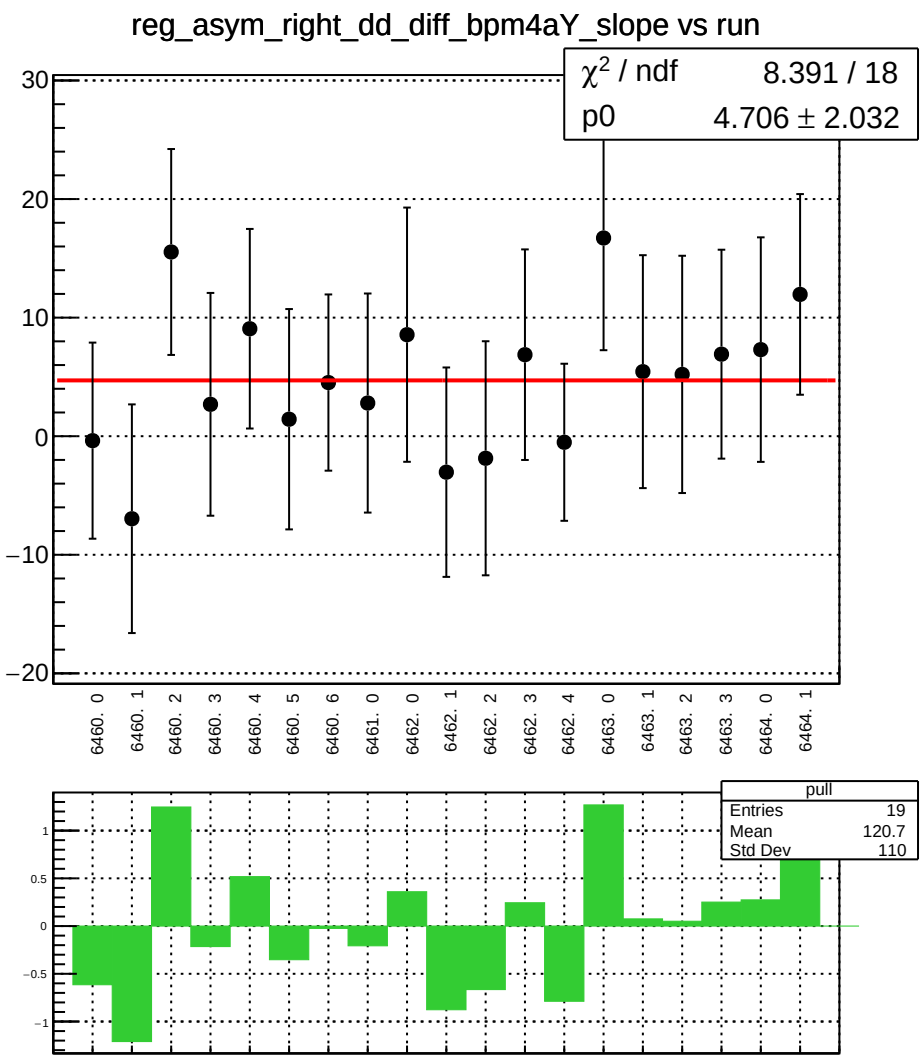

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 10.84 / 18
p0 0.466 ± 2.057
20
10
0
−10
−20
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 126.3
Std Dev 116
1.5
1
0.5
0
−0.5
−1

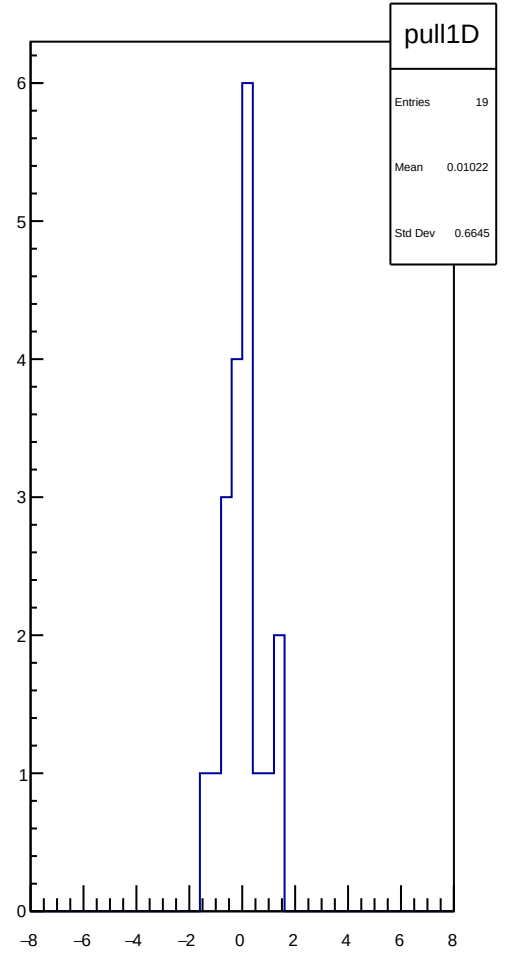

pull1D
Entries 19
Mean −0.01909
Std Dev 0.755
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

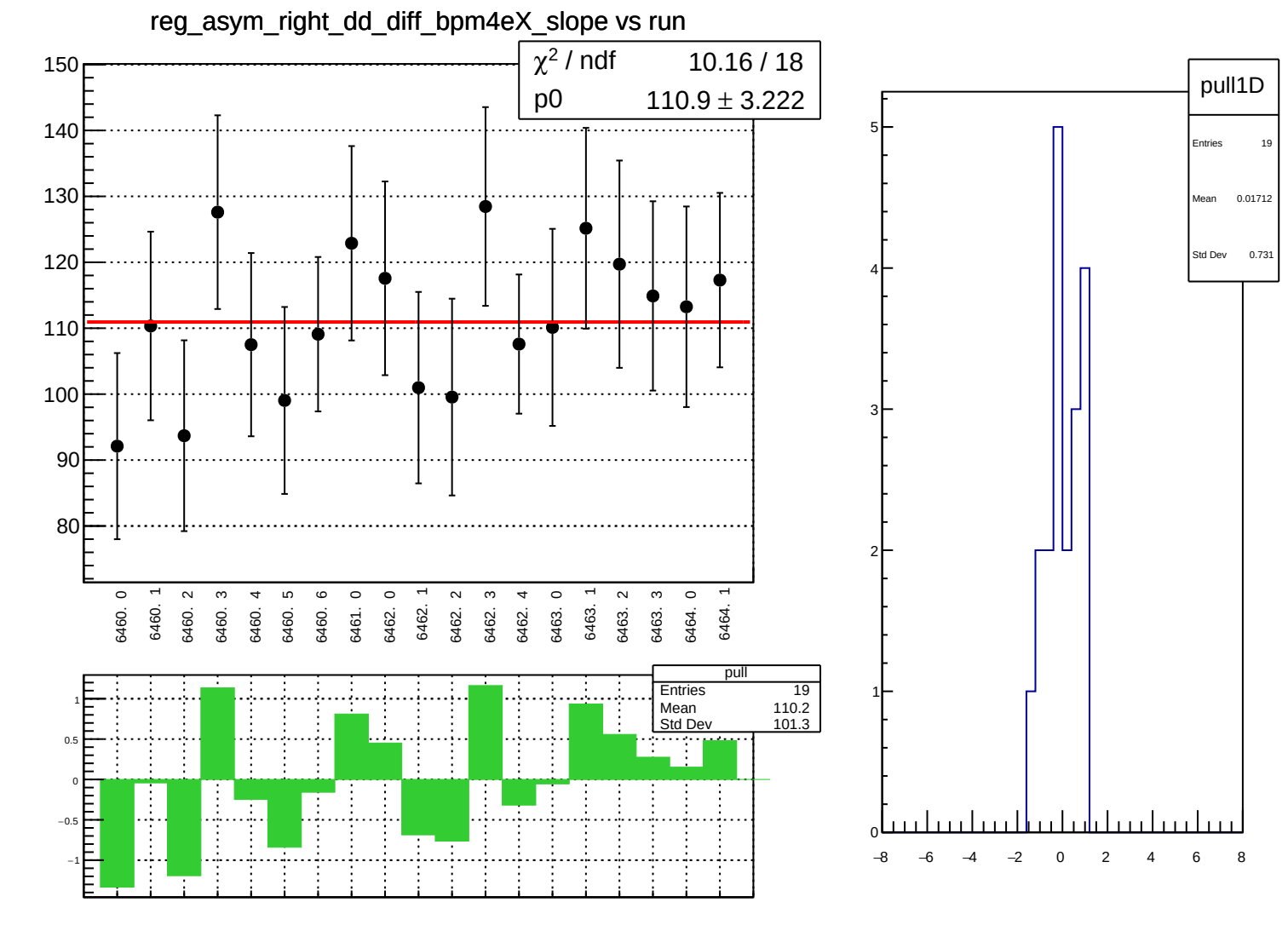

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 81.98 / 18
p0 −25.27 ± 0.08643
−23.5
−24
−24.5
−25
−25.5
−26
−26.5
−27
−27.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 191.6
Std Dev 181.8
3
2
1
0
−1
−2
−3
−4

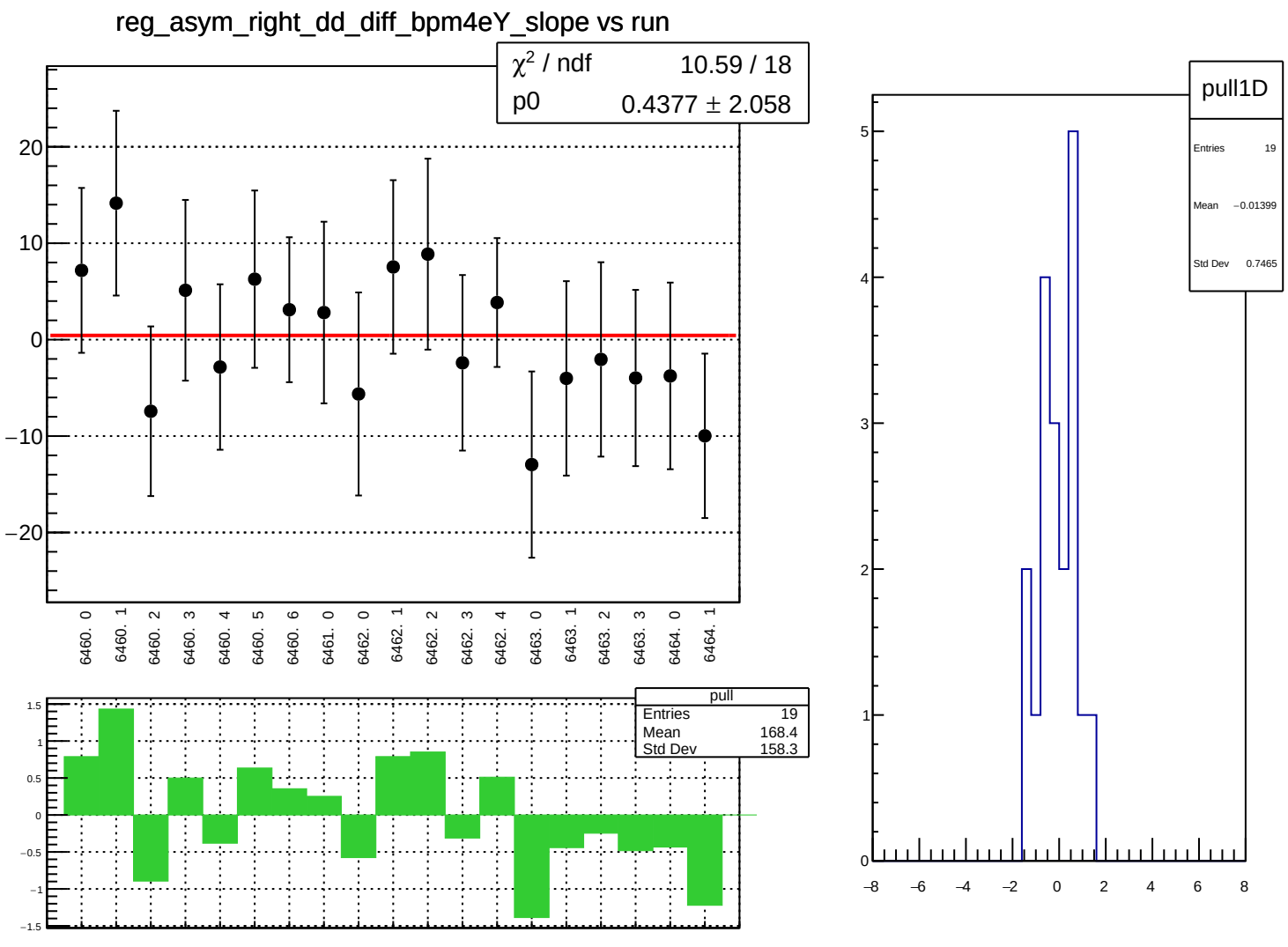

pull1D
Entries 19
Mean −0.05609
Std Dev 2.076
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

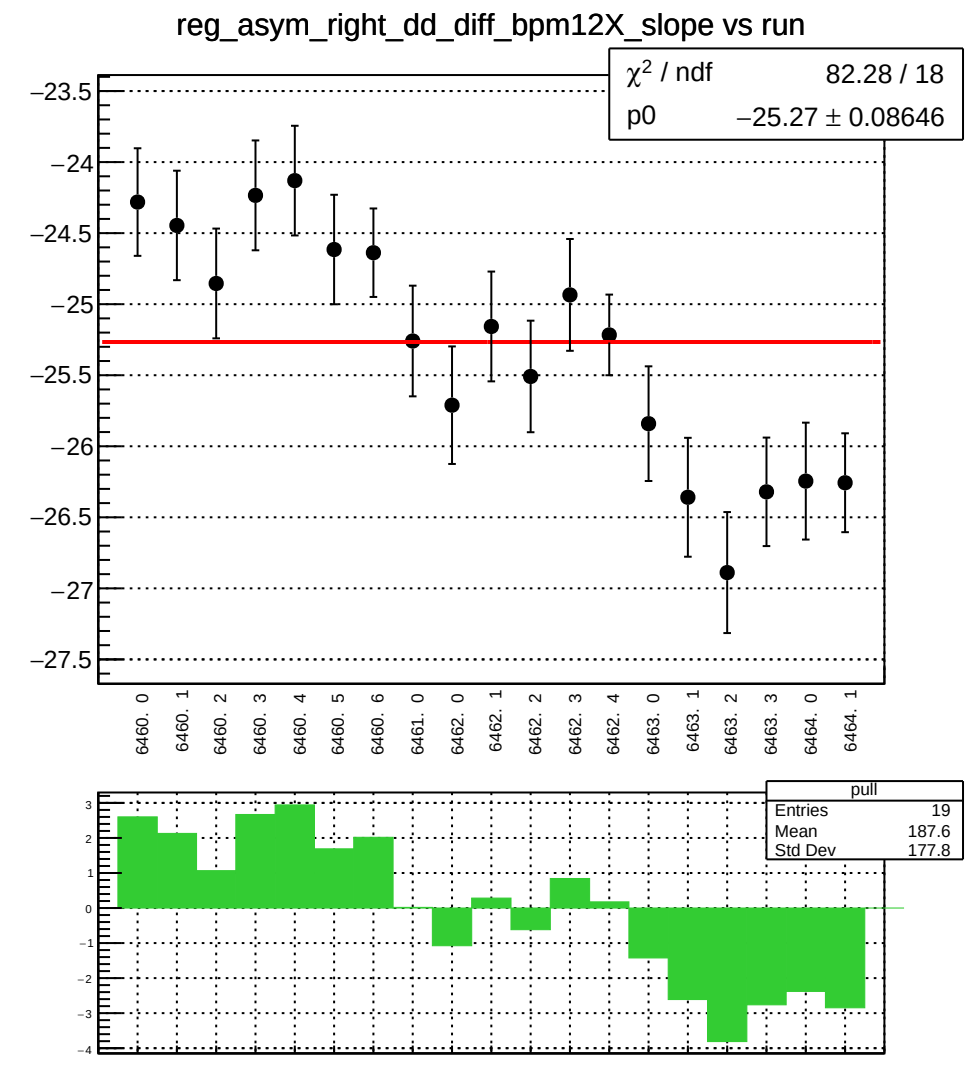

reg_asym_right_dd_diff_bpm4aX_slope vs run
χ² / ndf 9.926 / 18
p0 −69.69 ± 2.991
−40
−50
−60
−70
−80
−90
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 112.9
Std Dev 103.9
1
0.5
0
−0.5
−1
pull1D
Entries 19
Mean −0.01577
Std Dev 0.7226
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

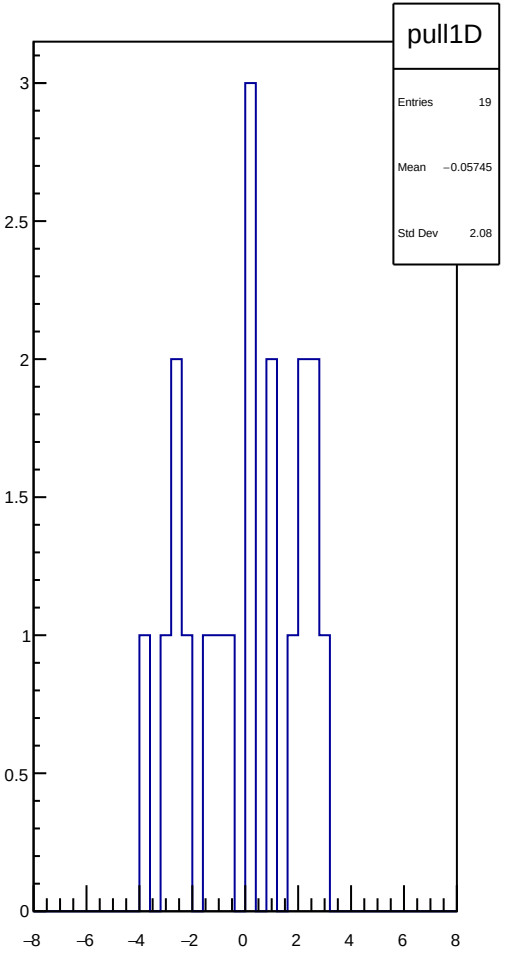

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.391 / 18
p0 4.706 ± 2.032
30
20
10
0
−10
−20
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 120.7
Std Dev 110
1
0.5
0
−0.5
−1

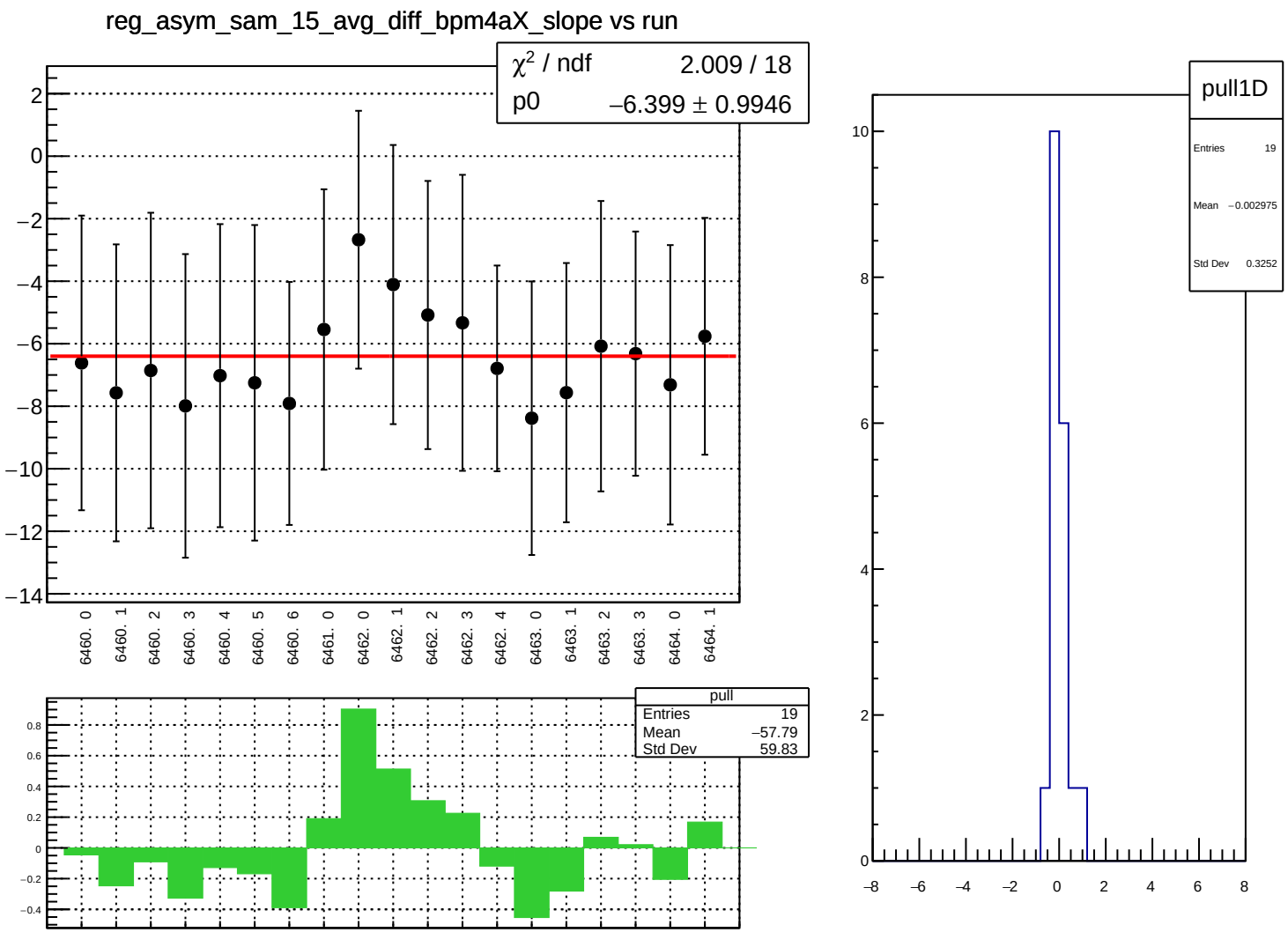

pull1D
Entries 19
Mean 0.01022
Std Dev 0.6645
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

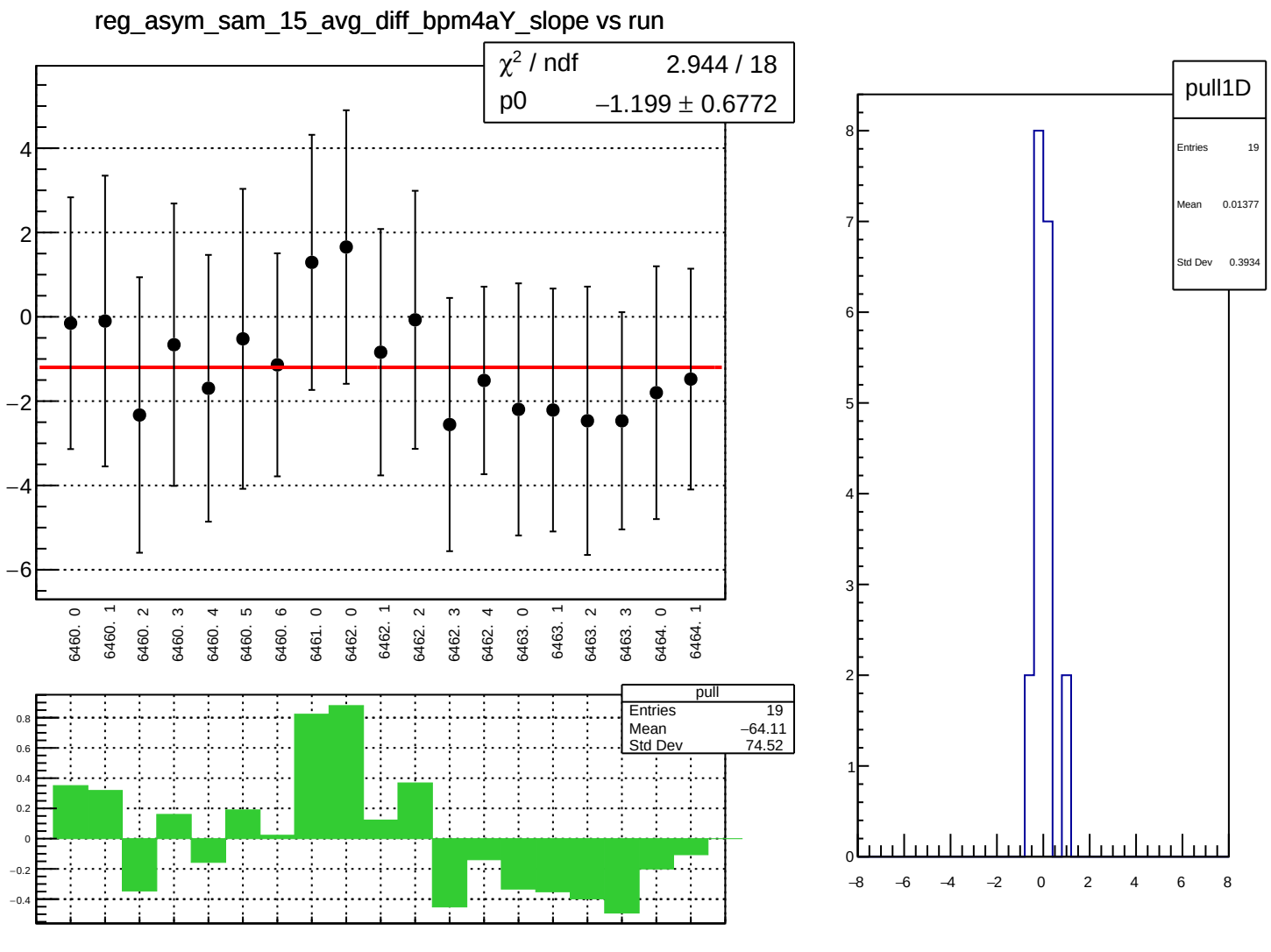

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 10.16 / 18
p0 110.9 ± 3.222
150
140
130
120
110
100
90
80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 110.2
Std Dev 101.3
1
0.5
0
−0.5
−1
pull1D
Entries 19
Mean 0.01712
Std Dev 0.731
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

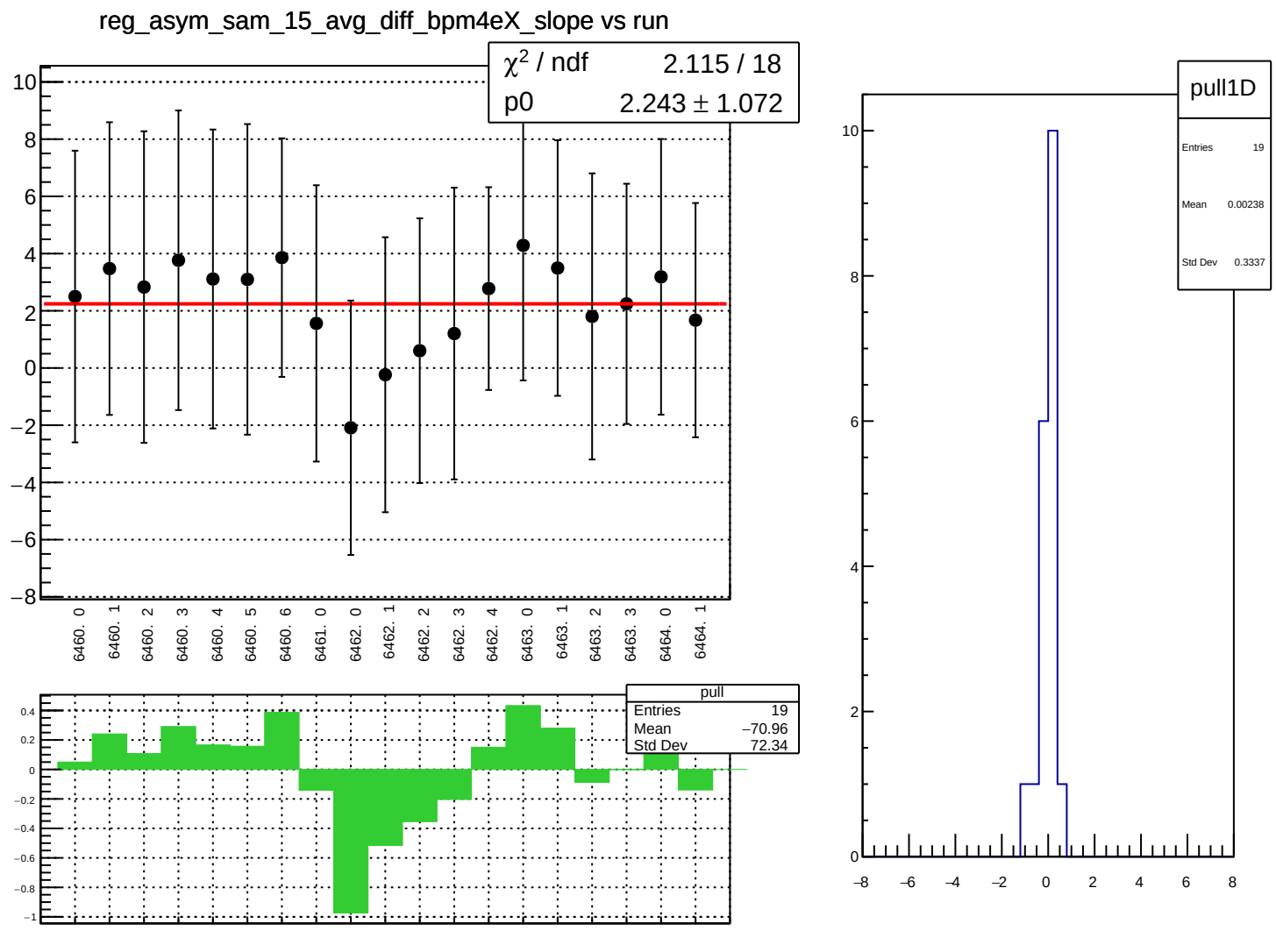

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 10.59 / 18
p0 0.4377 ± 2.058
20
10
0
−10
−20
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 168.4
Std Dev 158.3
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 19
Mean −0.01399
Std Dev 0.7465
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

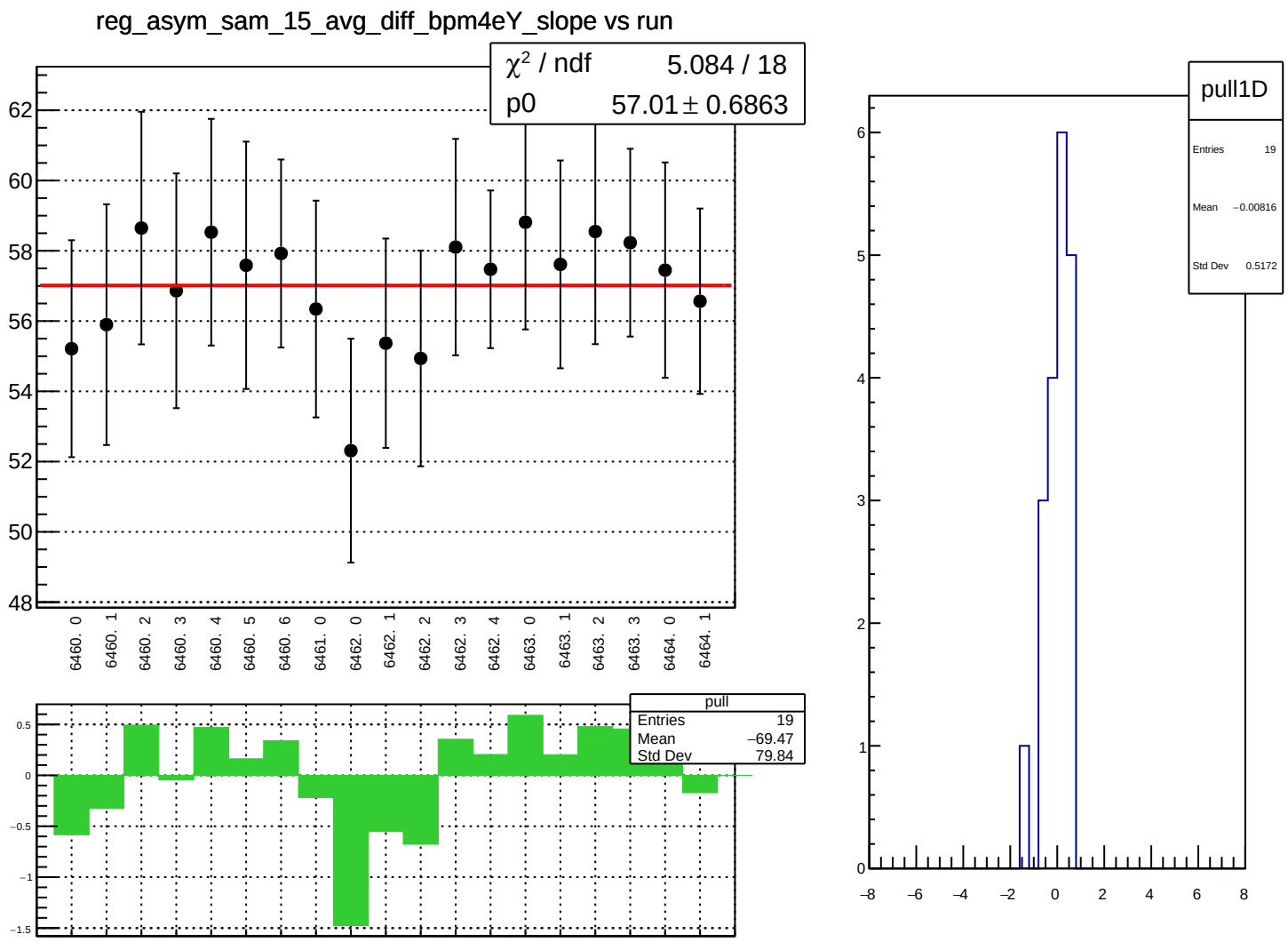

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 82.28 / 18
p0 −25.27 ± 0.08646
−23.5
−24
−24.5
−25
−25.5
−26
−26.5
−27
−27.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 187.6
Std Dev 177.8
3
2
1
0
−1
−2
−3
−4

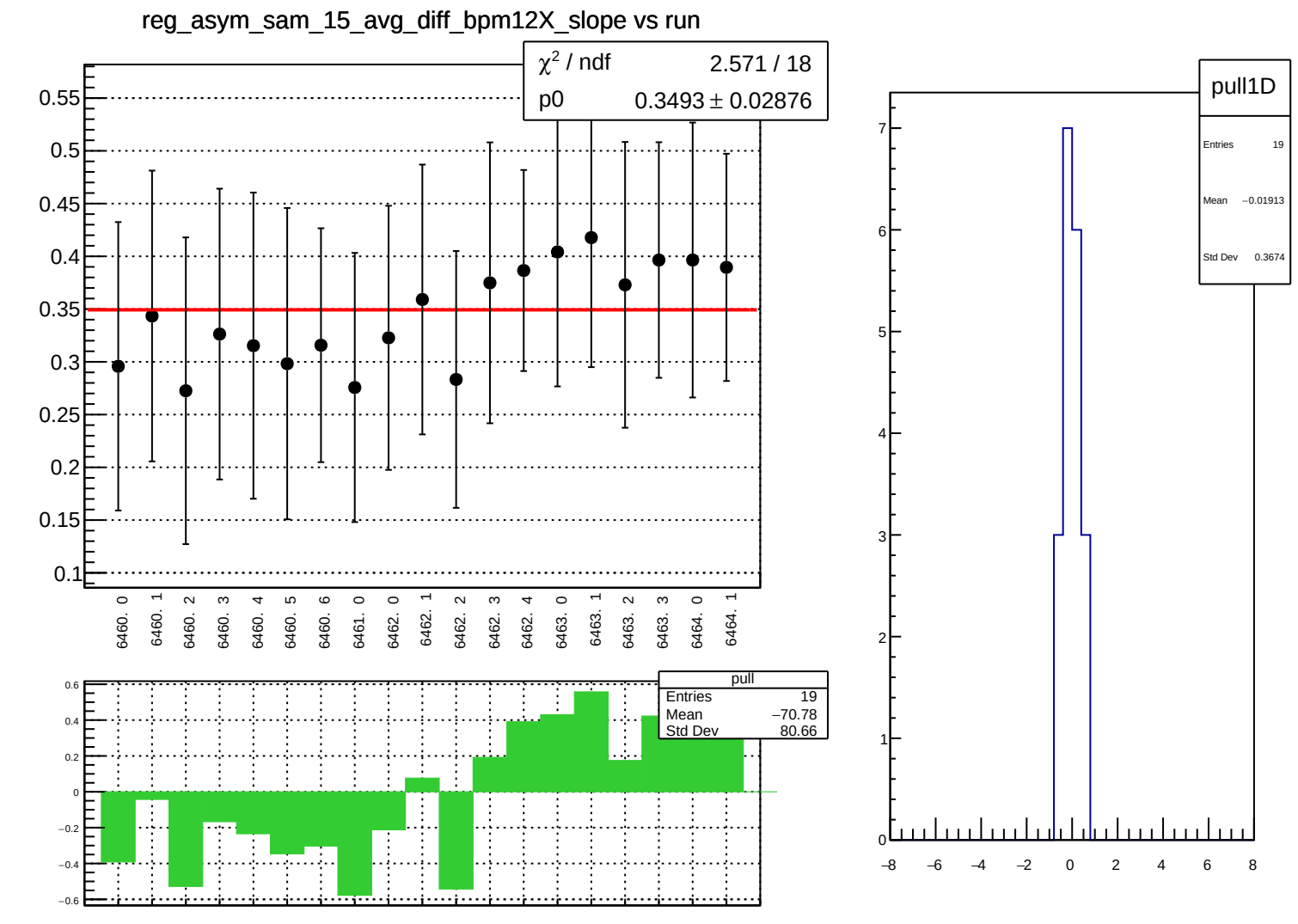

pull1D
Entries 19
Mean −0.05745
Std Dev 2.08
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

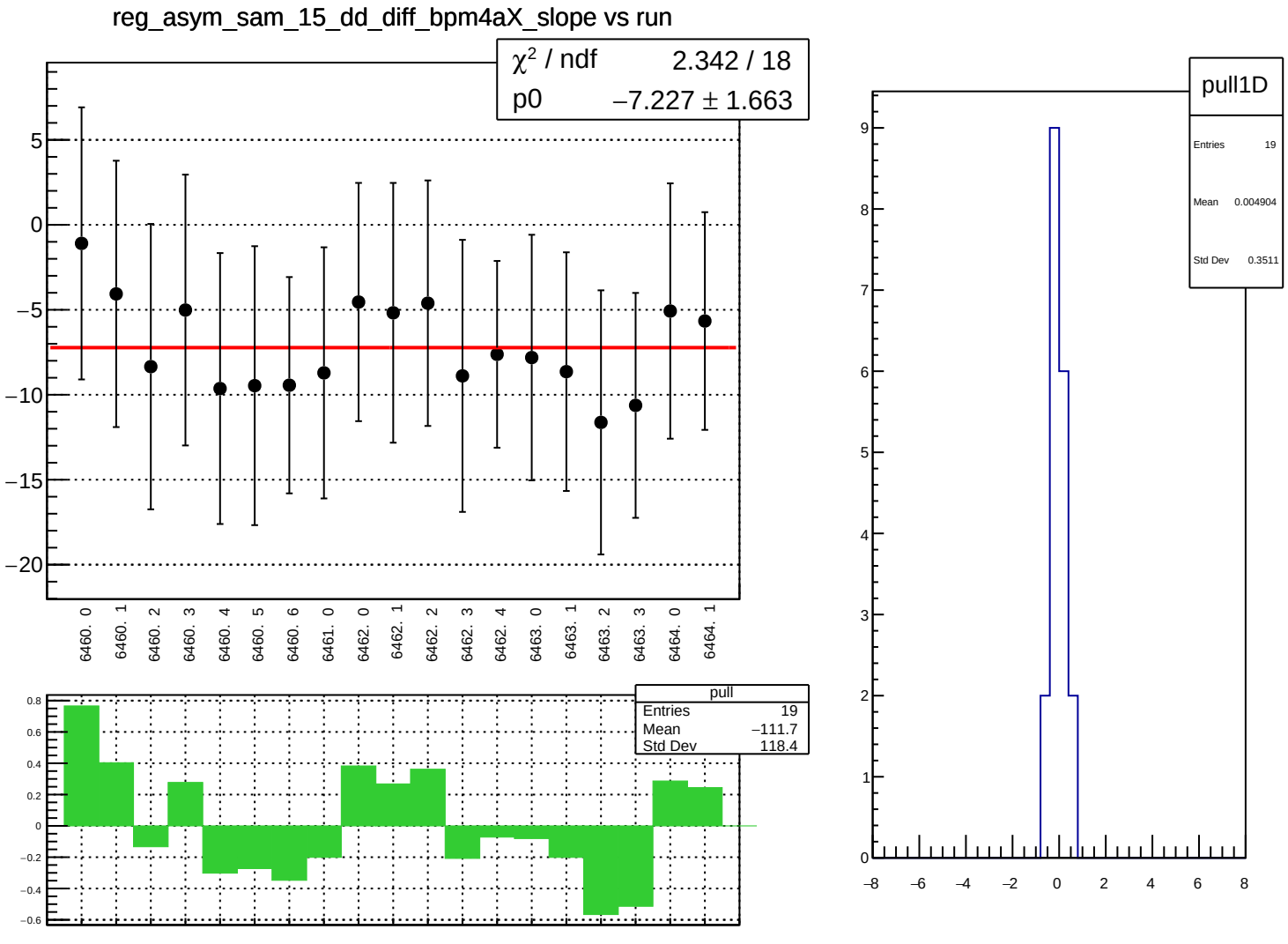

reg_asym_sam_15_avg_diff_bpm4aX_slope vs run
χ² / ndf 2.009 / 18
p0 −6.399 ± 0.9946
2
0
−2
−4
−6
−8
−10
−12
−14
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −57.79
Std Dev 59.83
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 19
Mean −0.002975
Std Dev 0.3252
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

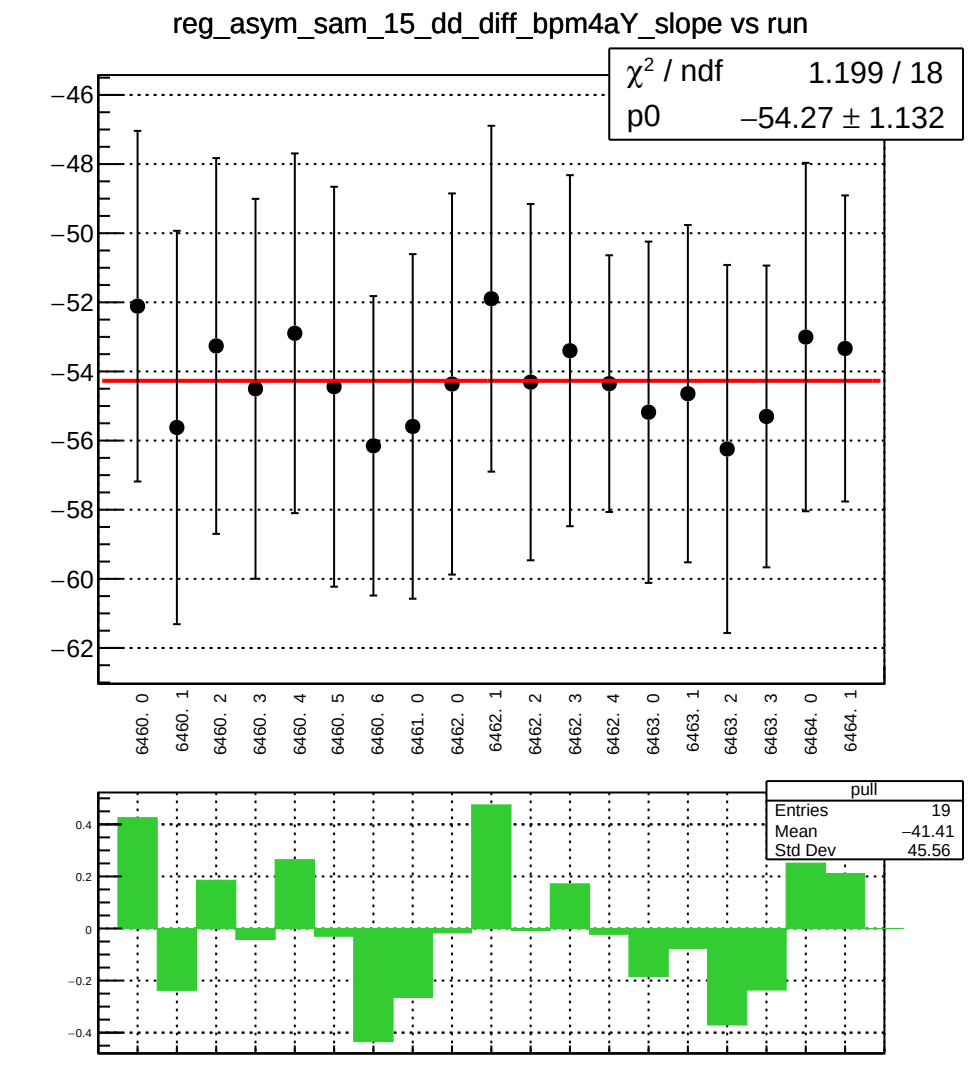

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.944 / 18
p0 −1.199 ± 0.6772
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −64.11
Std Dev 74.52
pull1D
Entries 19
Mean 0.01377
Std Dev 0.3934

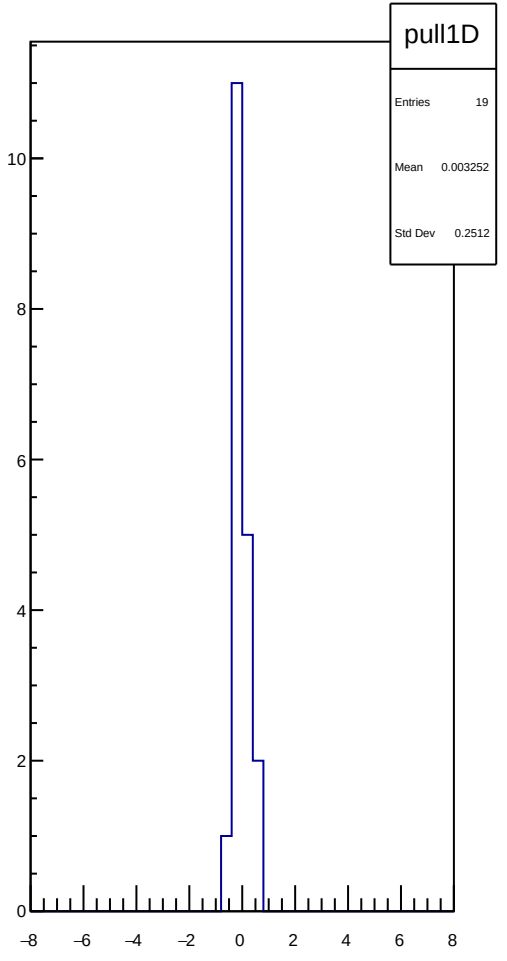

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.115 / 18
p0 2.243 ± 1.072
10
8
6
4
2
0
−2
−4
−6
−8
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −70.96
Std Dev 72.34
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 19
Mean 0.00238
Std Dev 0.3337
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

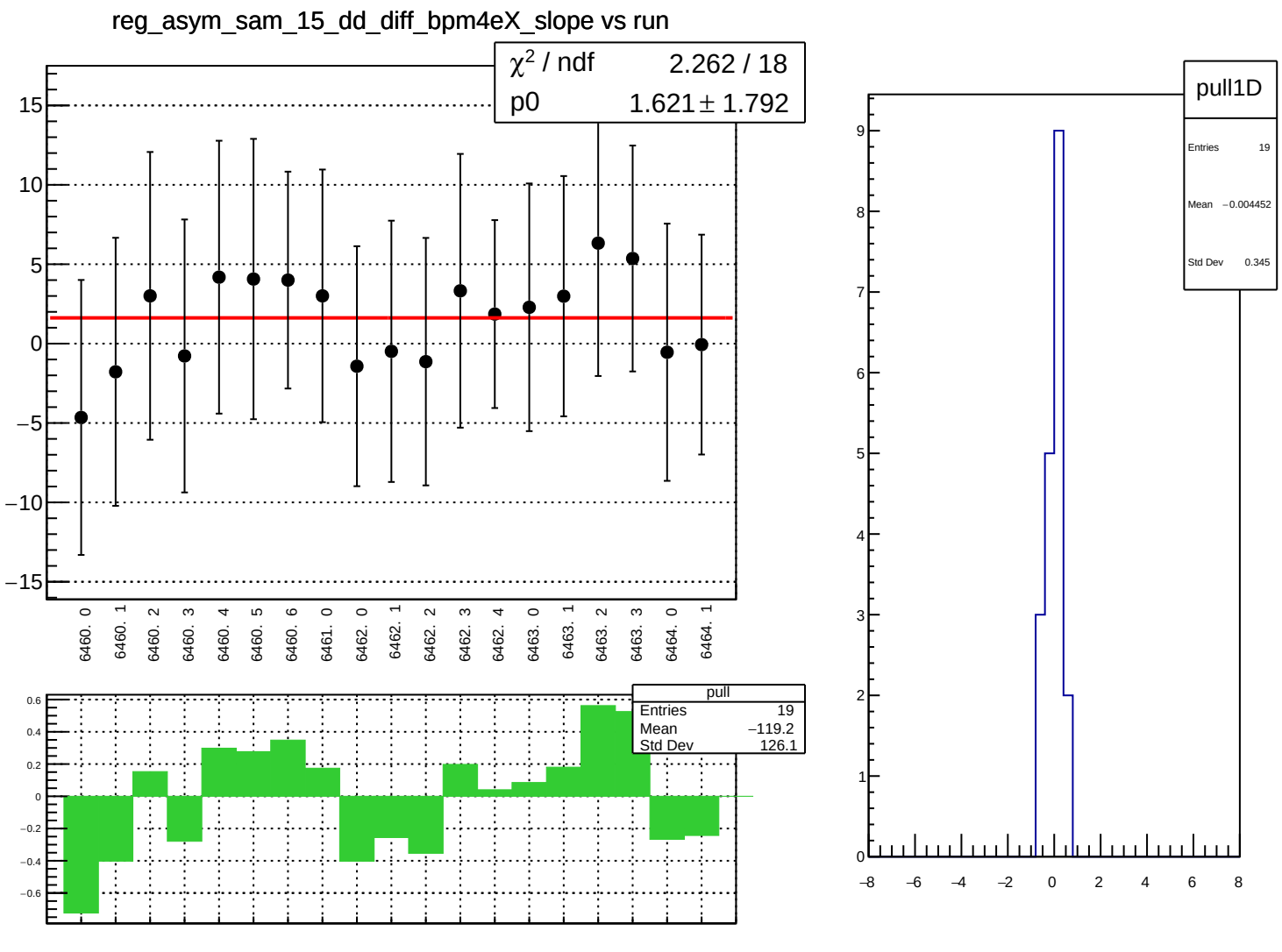

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.084 / 18
p0 57.01 ± 0.6863
62
60
58
56
54
52
50
48
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −69.47
Std Dev 79.84
0.5
0
−0.5
−1
−1.5
pull1D
Entries 19
Mean −0.00816
Std Dev 0.5172
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

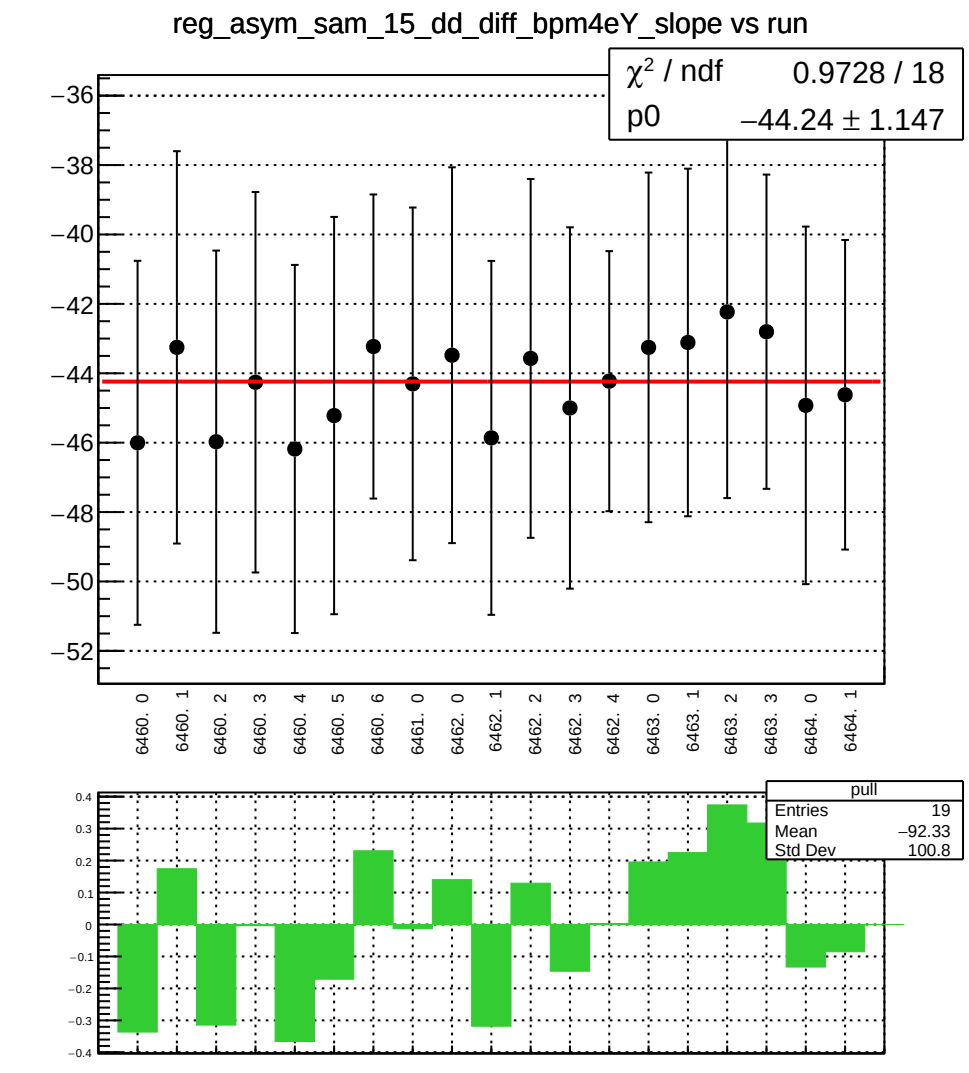

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 2.571 / 18
p0 0.3493 ± 0.02876
0.55
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −70.78
Std Dev 80.66
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 19
Mean −0.01913
Std Dev 0.3674
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

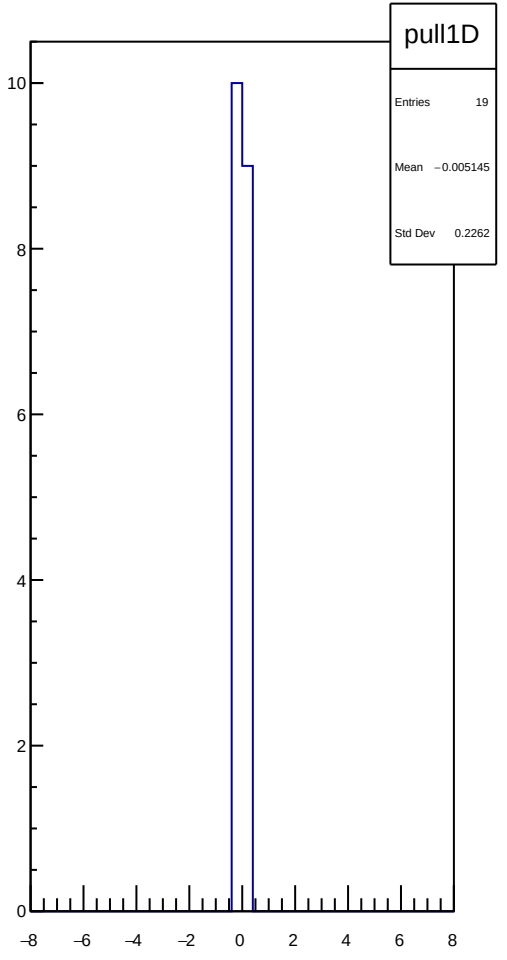

reg_asym_sam_15_dd_diff_bpm4aX_slope vs run
χ² / ndf 2.342 / 18
p0 −7.227 ± 1.663
5
0
−5
−10
−15
−20
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −111.7
Std Dev 118.4
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 19
Mean 0.004904
Std Dev 0.3511
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

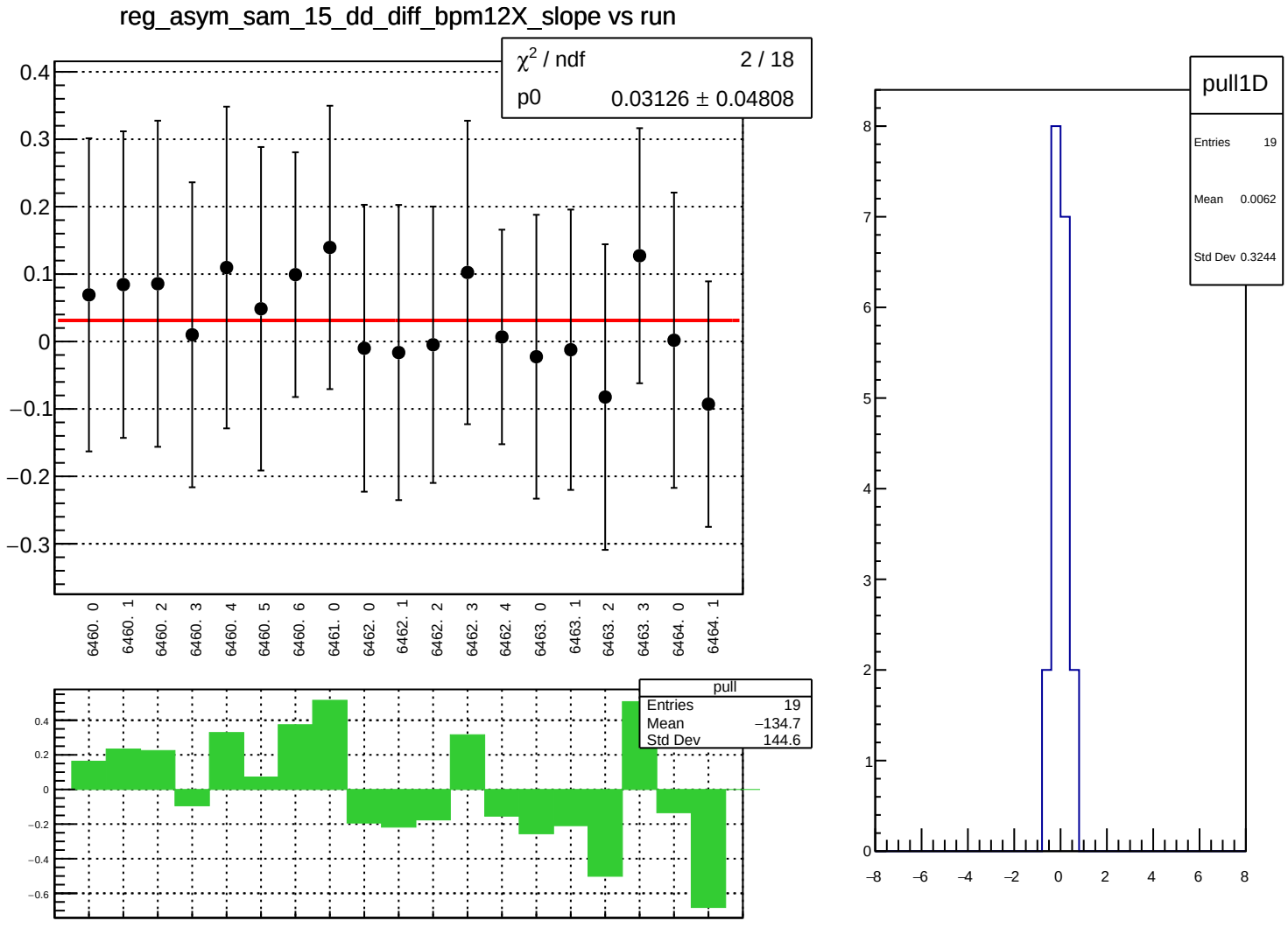

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.199 / 18
p0 −54.27 ± 1.132
−46
−48
−50
−52
−54
−56
−58
−60
−62
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −41.41
Std Dev 45.56
0.4
0.2
0
−0.2
−0.4

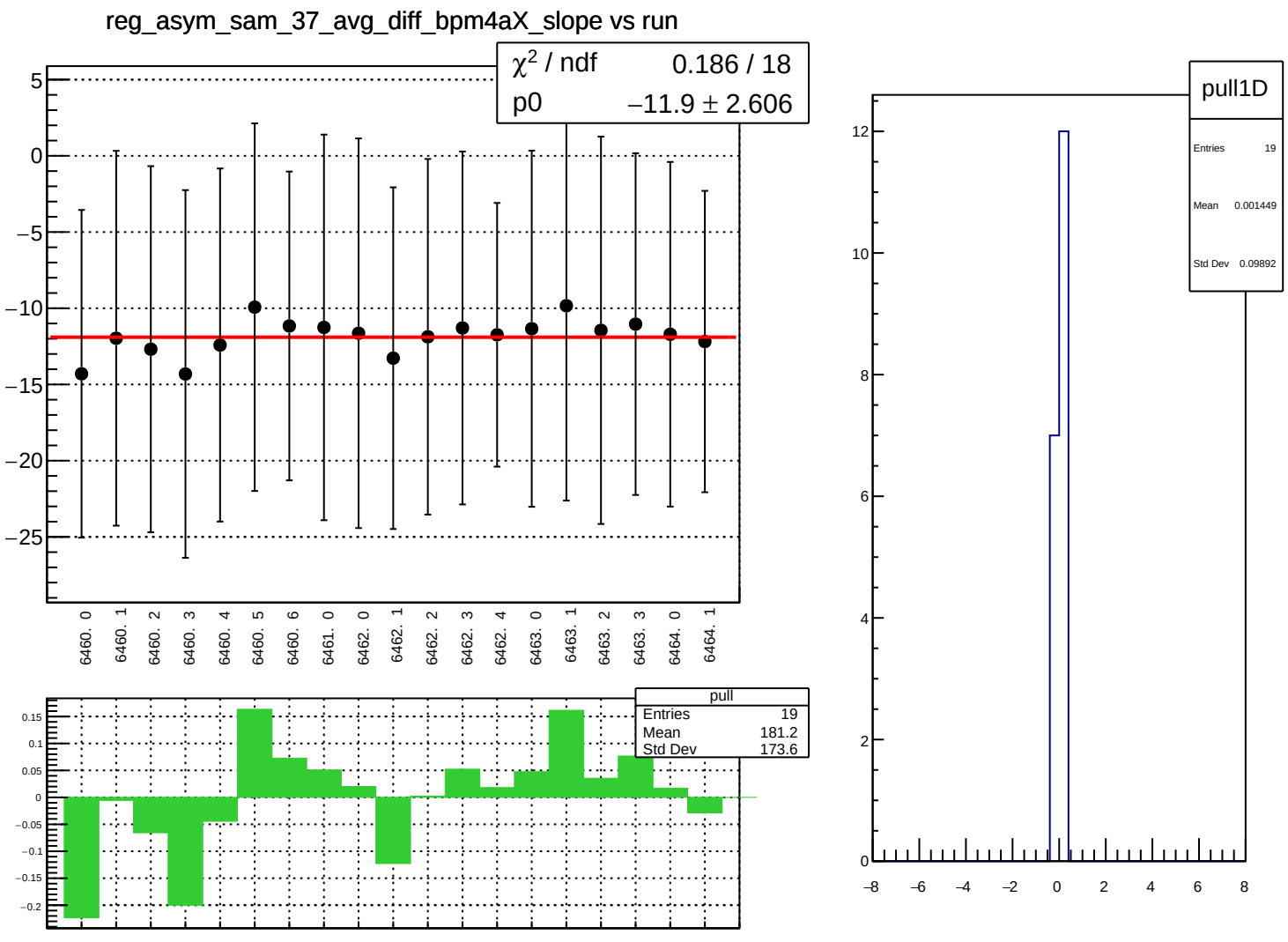

pull1D
Entries 19
Mean 0.003252
Std Dev 0.2512
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

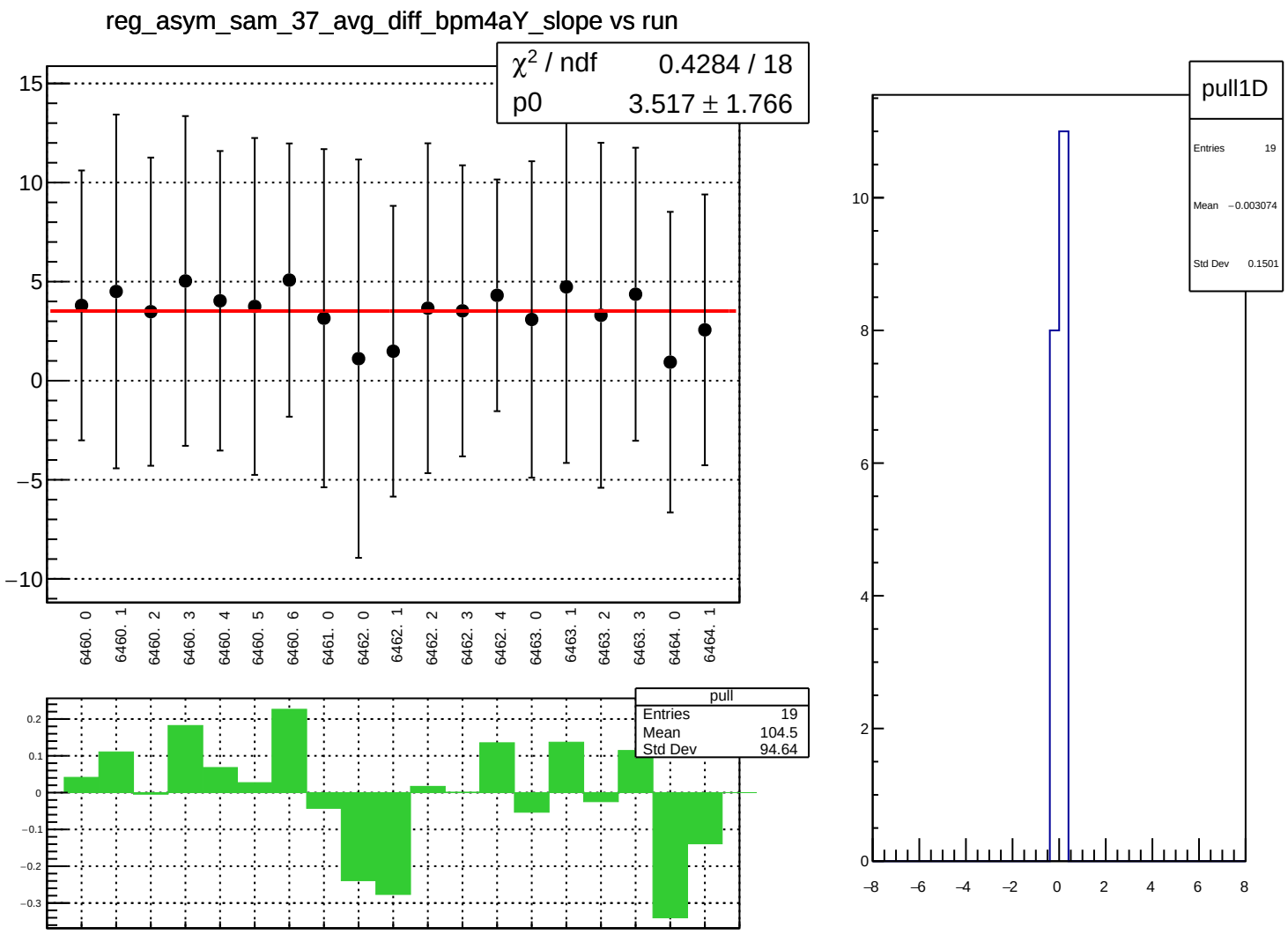

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.262 / 18
p0 1.621 ± 1.792
15
10
5
0
−5
−10
−15
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −119.2
Std Dev 126.1
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 19
Mean −0.004452
Std Dev 0.345
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

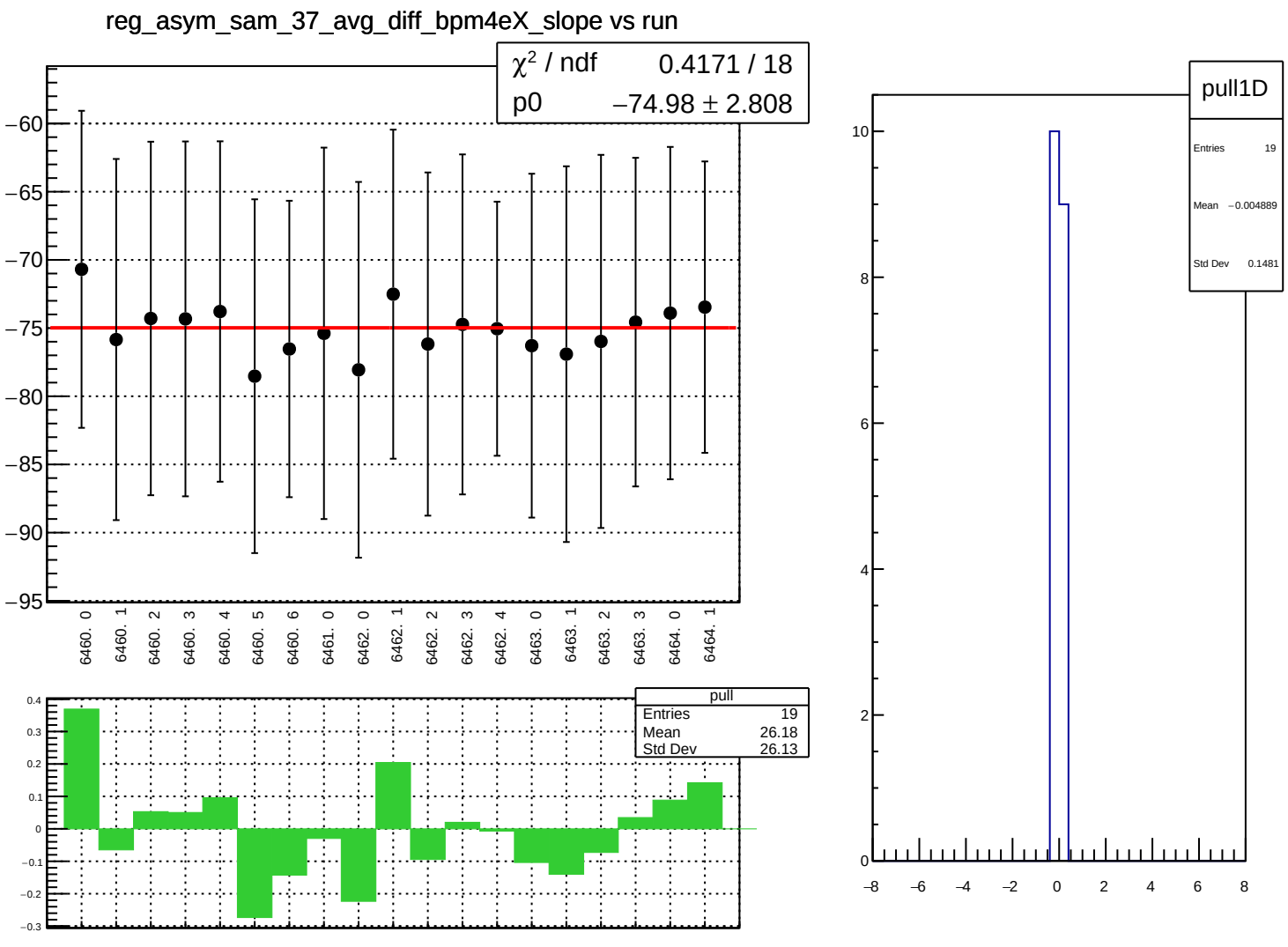

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.9728 / 18
p0 −44.24 ± 1.147
−36
−38
−40
−42
−44
−46
−48
−50
−52
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −92.33
Std Dev 100.8
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

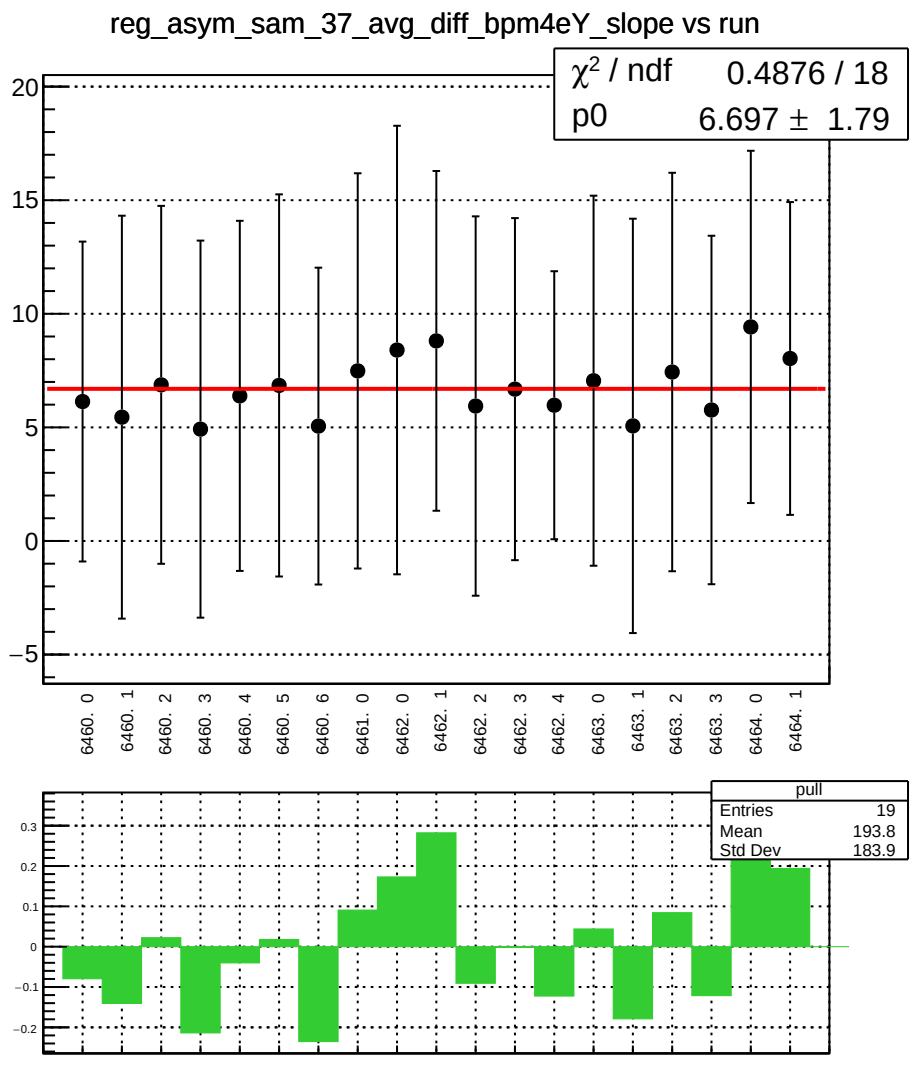

pull1D
Entries 19
Mean −0.005145
Std Dev 0.2262
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

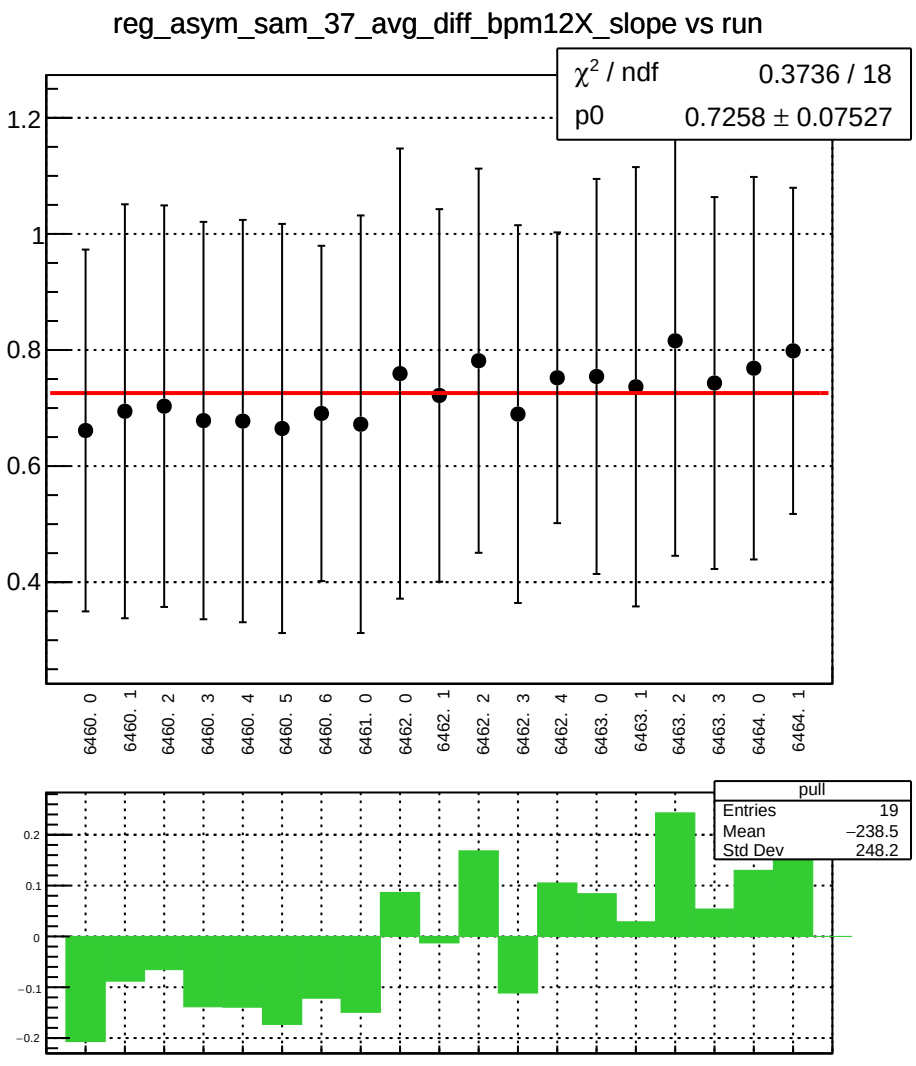

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 2 / 18
p0 0.03126 ± 0.04808
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −134.7
Std Dev 144.6
pull1D
Entries 19
Mean 0.0062
Std Dev 0.3244

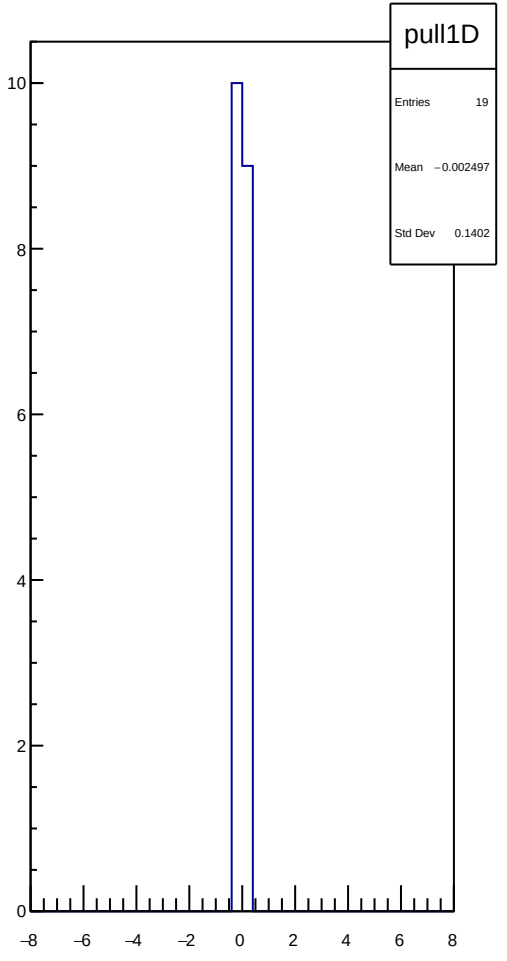

reg_asym_sam_37_avg_diff_bpm4aX_slope vs run
χ² / ndf 0.186 / 18
p0 −11.9 ± 2.606
5
0
−5
−10
−15
−20
−25
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 181.2
Std Dev 173.6
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
pull1D
Entries 19
Mean 0.001449
Std Dev 0.09892
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

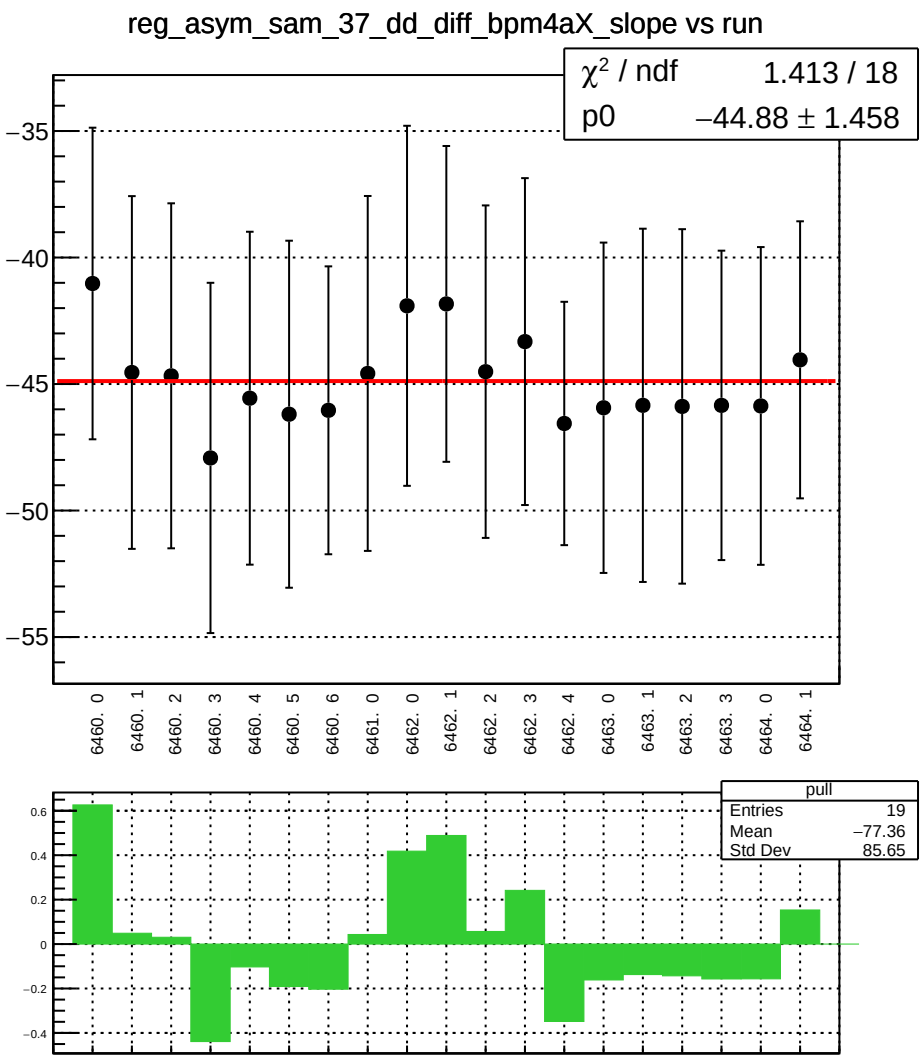

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.4284 / 18
p0 3.517 ± 1.766
15
10
5
0
−5
−10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 104.5
Std Dev 94.64
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 19
Mean −0.003074
Std Dev 0.1501
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

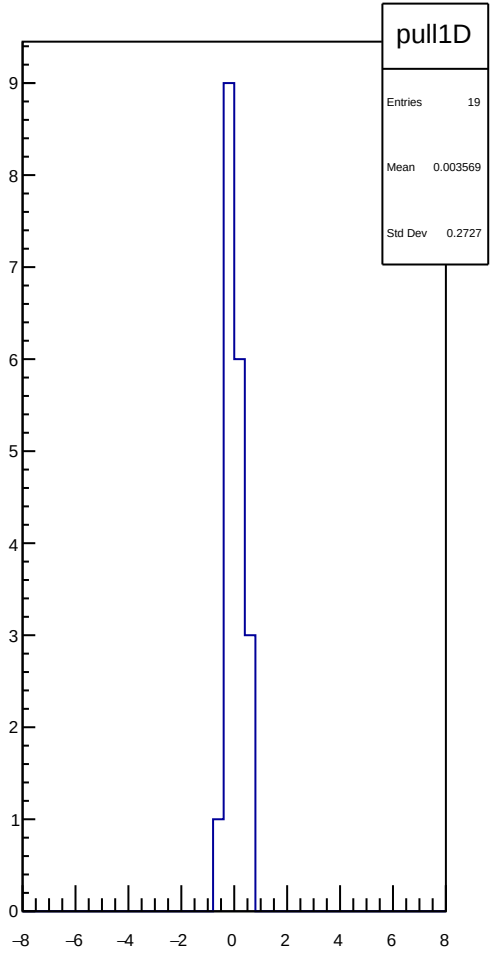

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 0.4171 / 18
p0 −74.98 ± 2.808
−60
−65
−70
−75
−80
−85
−90
−95
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 26.18
Std Dev 26.13
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 19
Mean −0.004889
Std Dev 0.1481
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

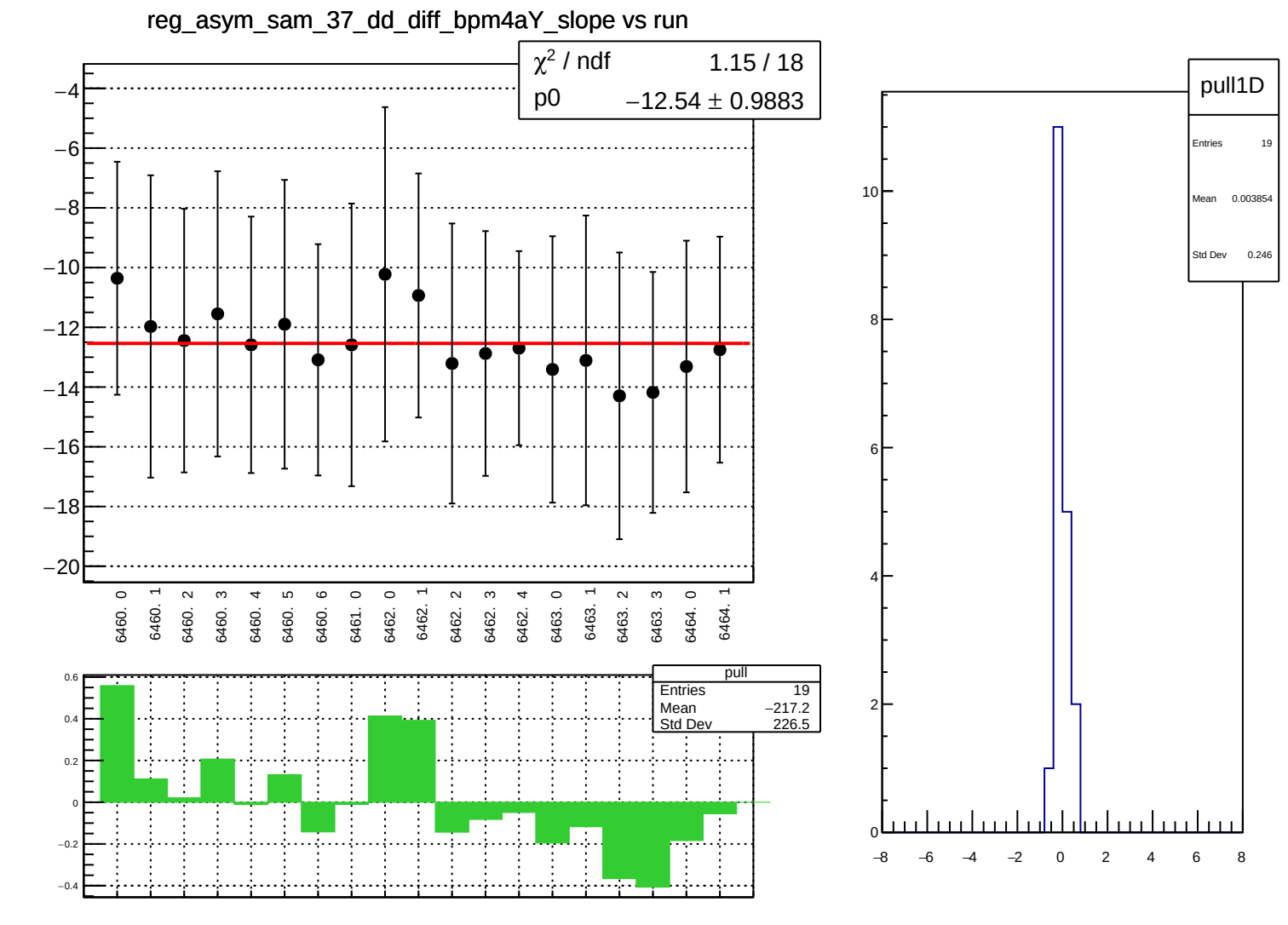

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.4876 / 18
p0 6.697 ± 1.79
20
15
10
5
0
−5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 193.8
Std Dev 183.9
0.3
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 19
Mean 0.001851
Std Dev 0.1602
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

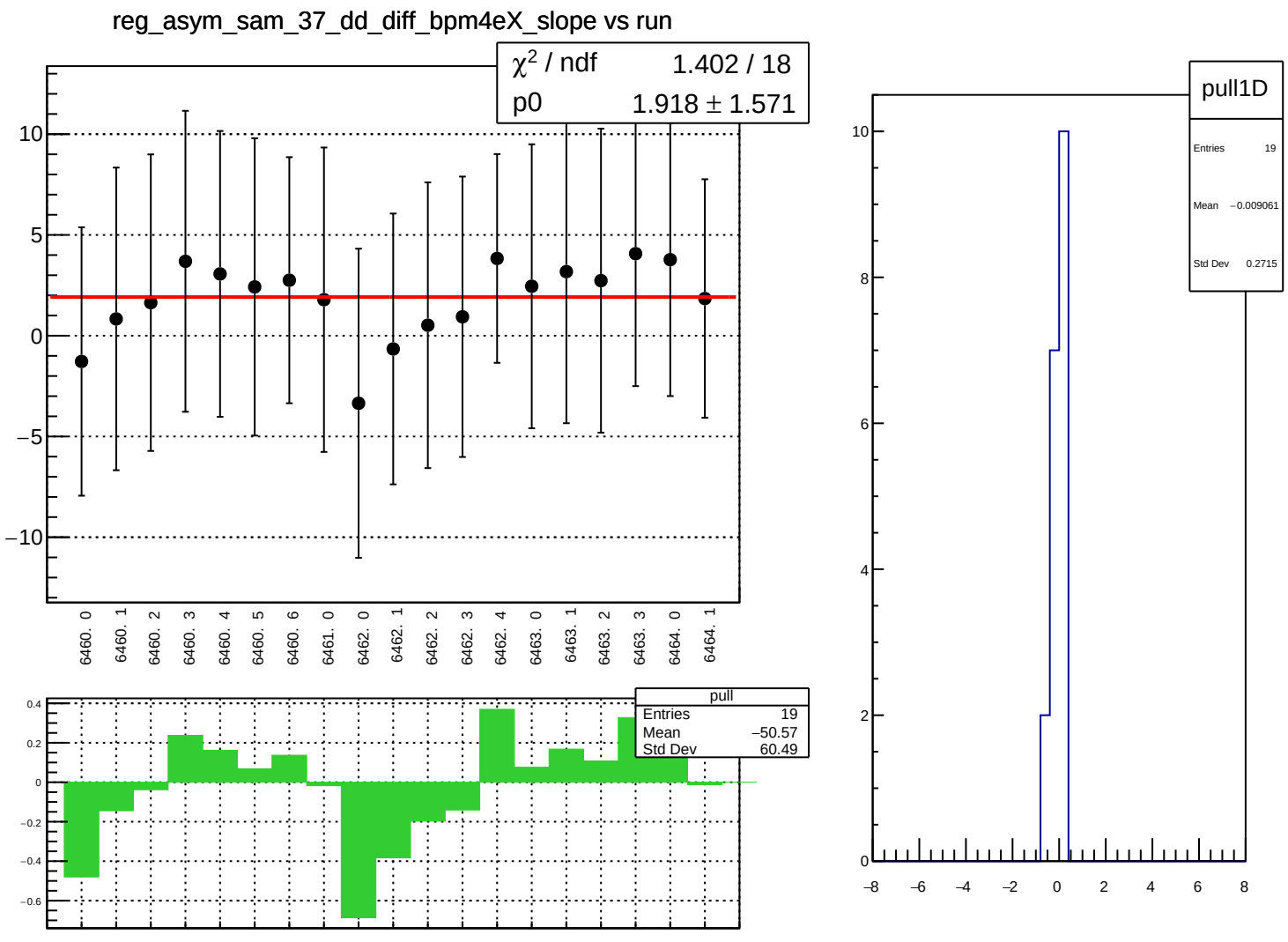

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 0.3736 / 18
p0 0.7258 ± 0.07527
1.2
1
0.8
0.6
0.4
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −238.5
Std Dev 248.2
0.2
0.1
0
−0.1
−0.2

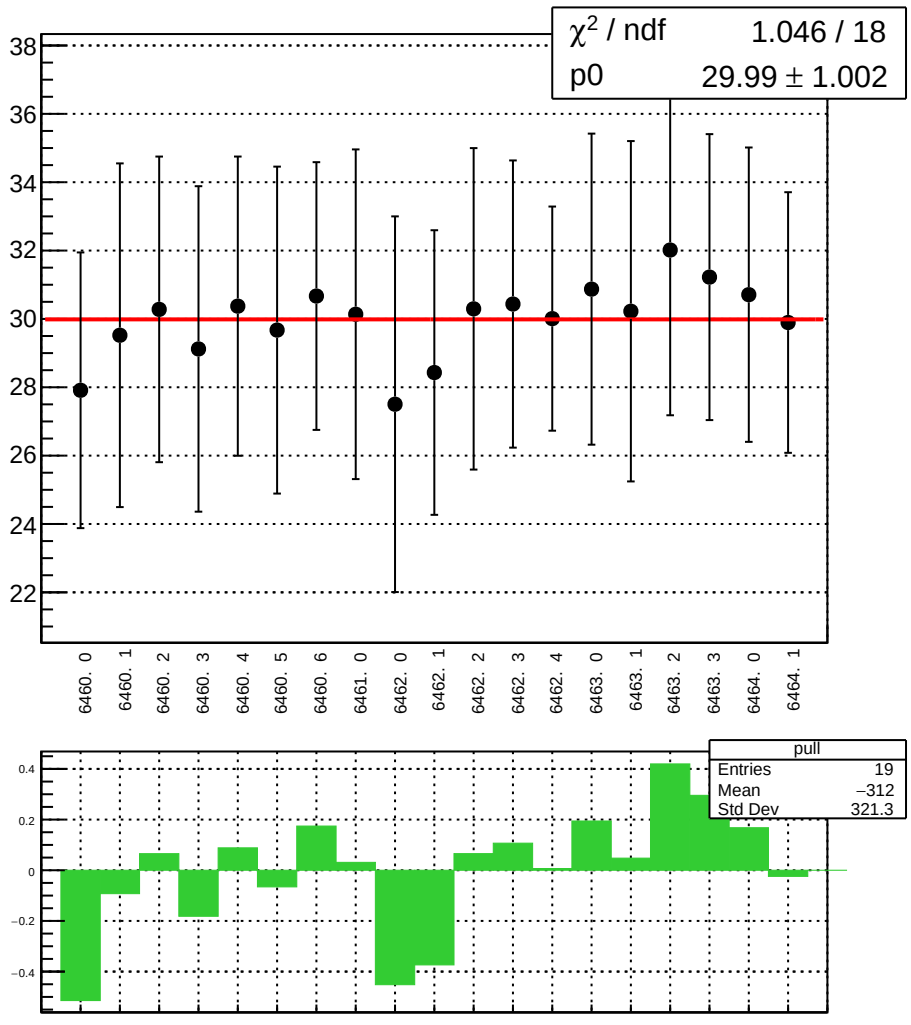

pull1D
Entries 19
Mean −0.002497
Std Dev 0.1402
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

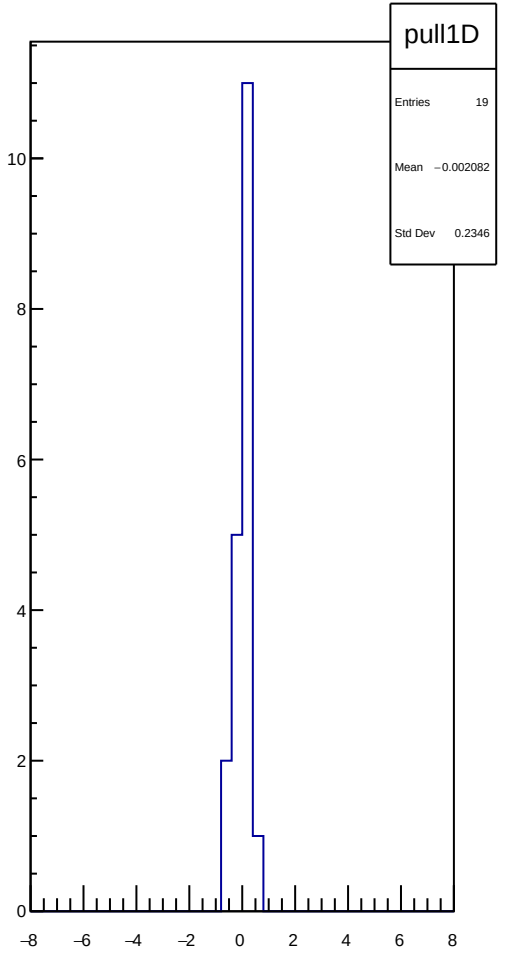

reg_asym_sam_37_dd_diff_bpm4aX_slope vs run
χ² / ndf 1.413 / 18
p0 −44.88 ± 1.458
−35
−40
−45
−50
−55
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −77.36
Std Dev 85.65
0.6
0.4
0.2
0
−0.2
−0.4

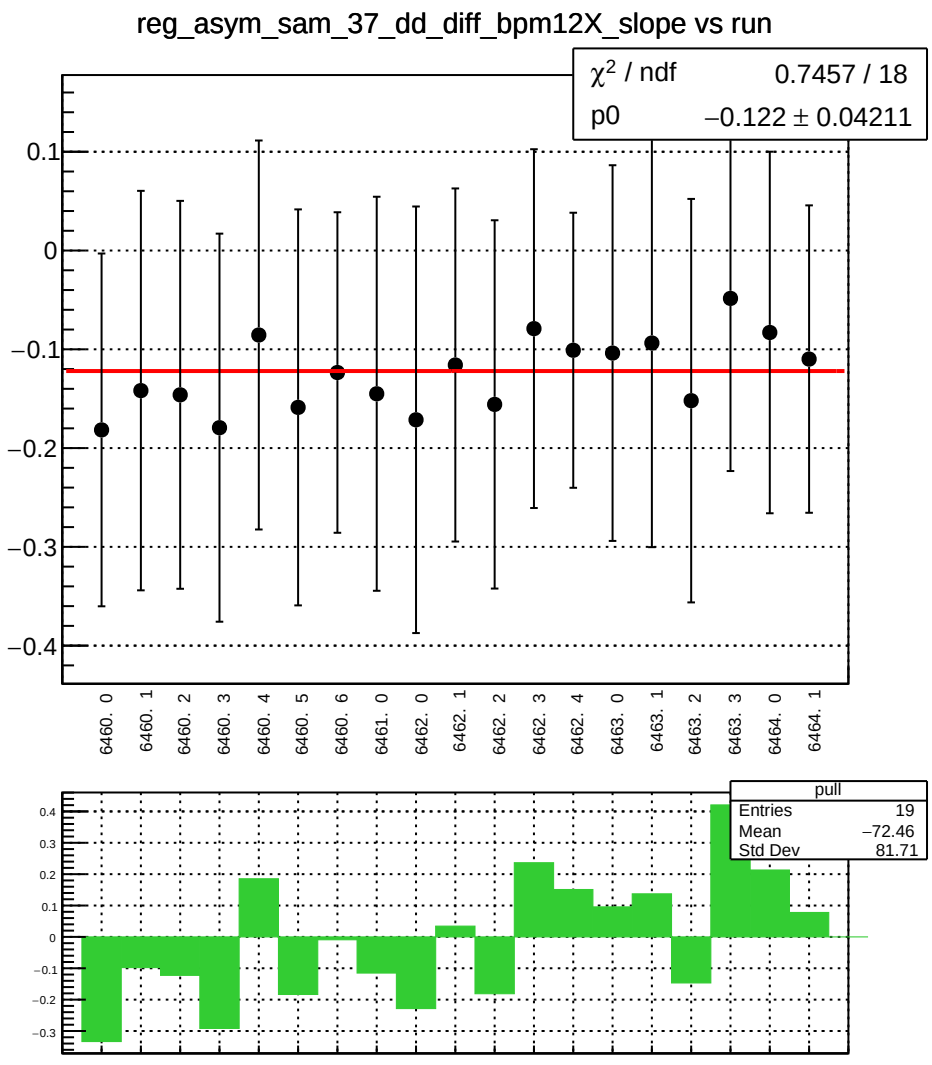

pull1D
Entries 19
Mean 0.003569
Std Dev 0.2727
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

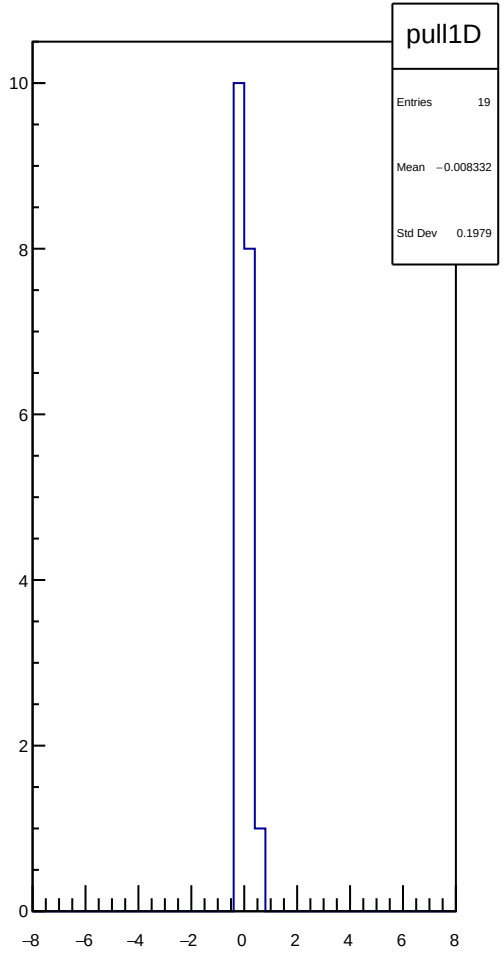

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.15 / 18
p0 −12.54 ± 0.9883
−4
−6
−8
−10
−12
−14
−16
−18
−20
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −217.2
Std Dev 226.5
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 19
Mean 0.003854
Std Dev 0.246
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

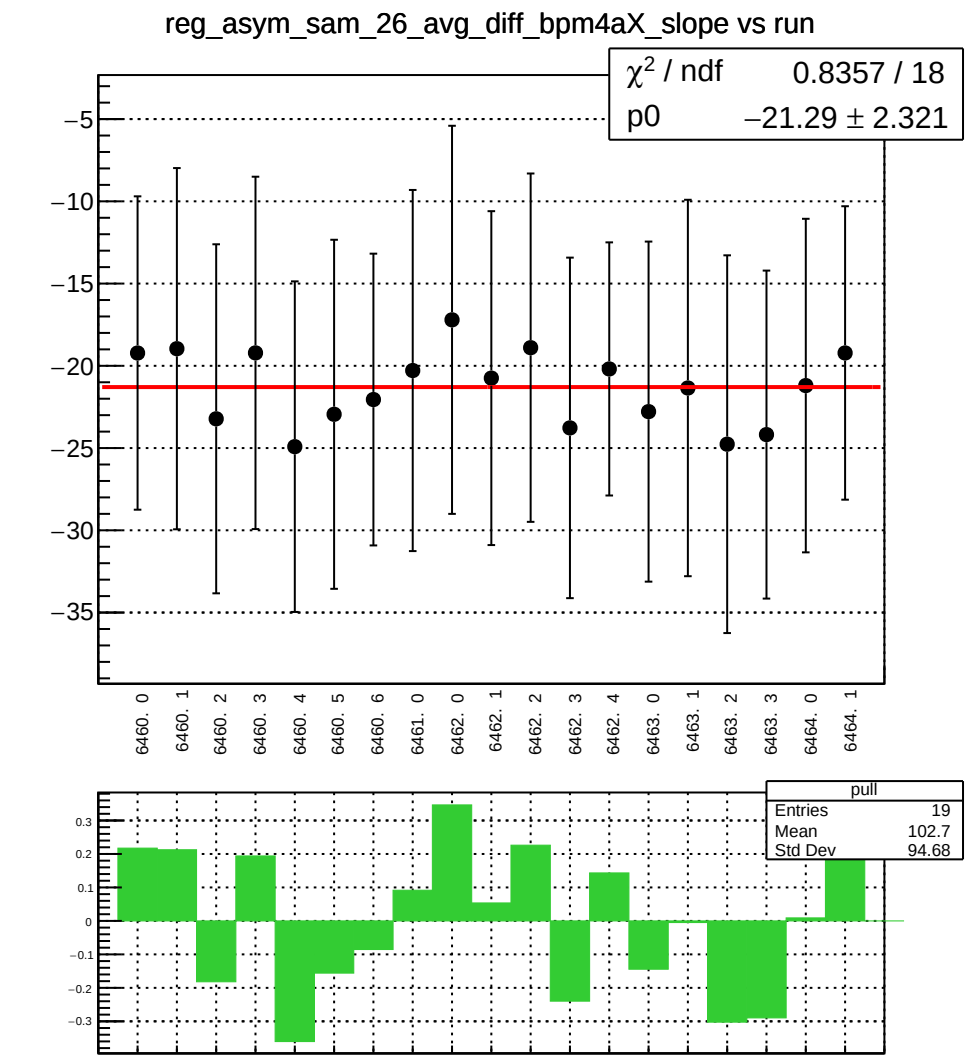

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.402 / 18
p0 1.918 ± 1.571
10
5
0
−5
−10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −50.57
Std Dev 60.49
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 19
Mean −0.009061
Std Dev 0.2715
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

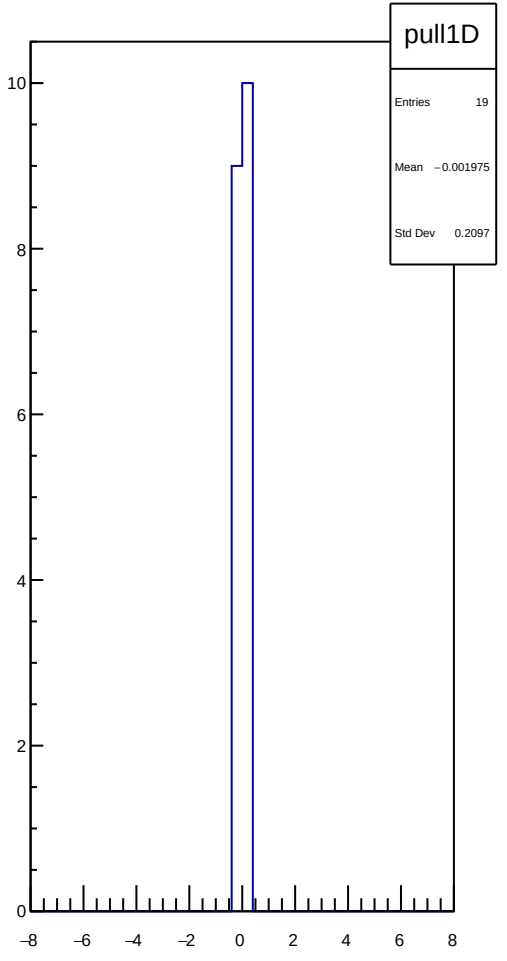

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.046 / 18
p0 29.99 ± 1.002
38
36
34
32
30
28
26
24
22
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −312
Std Dev 321.3
0.4
0.2
0
−0.2
−0.4

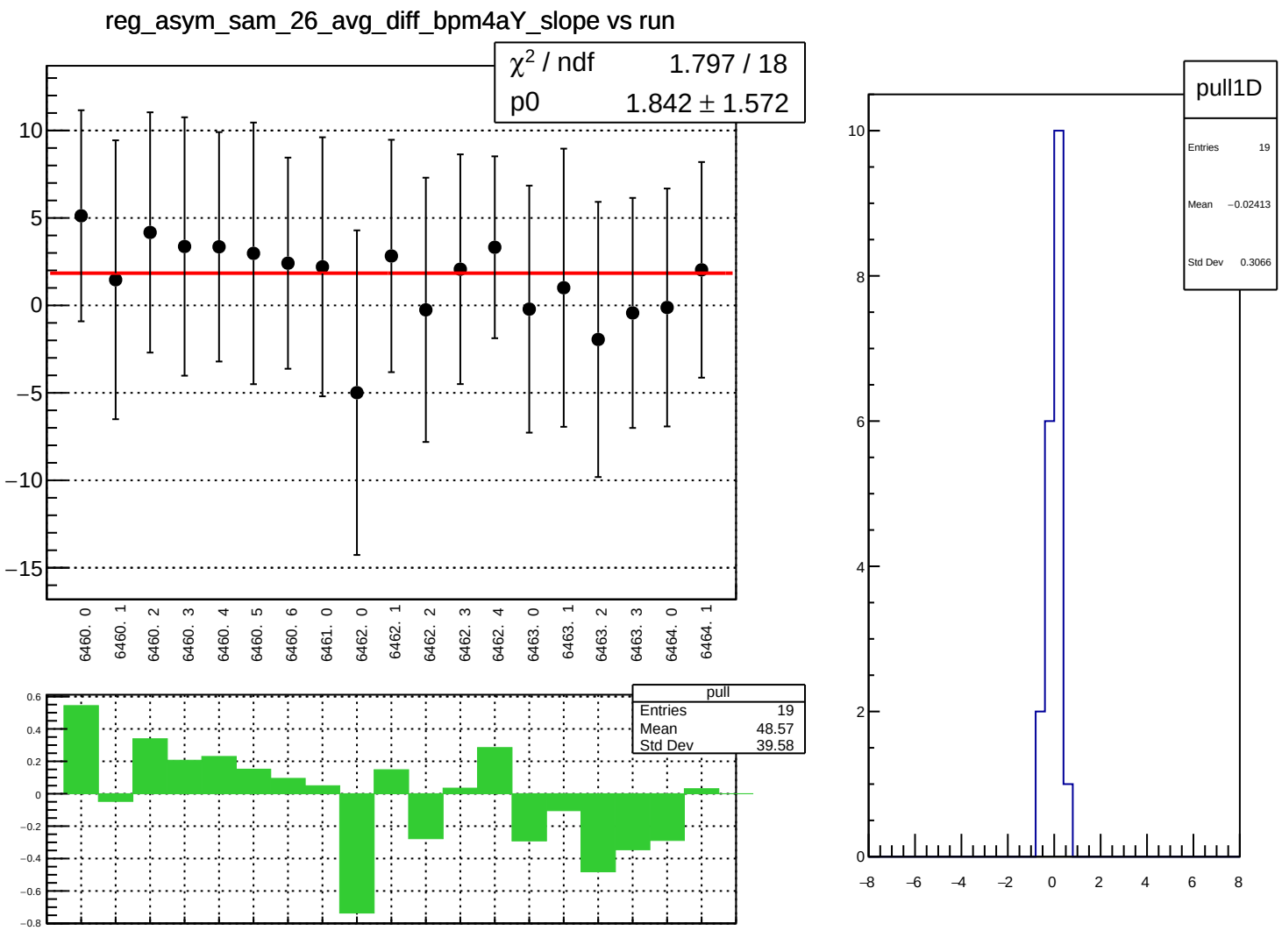

pull1D
Entries 19
Mean −0.002082
Std Dev 0.2346
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

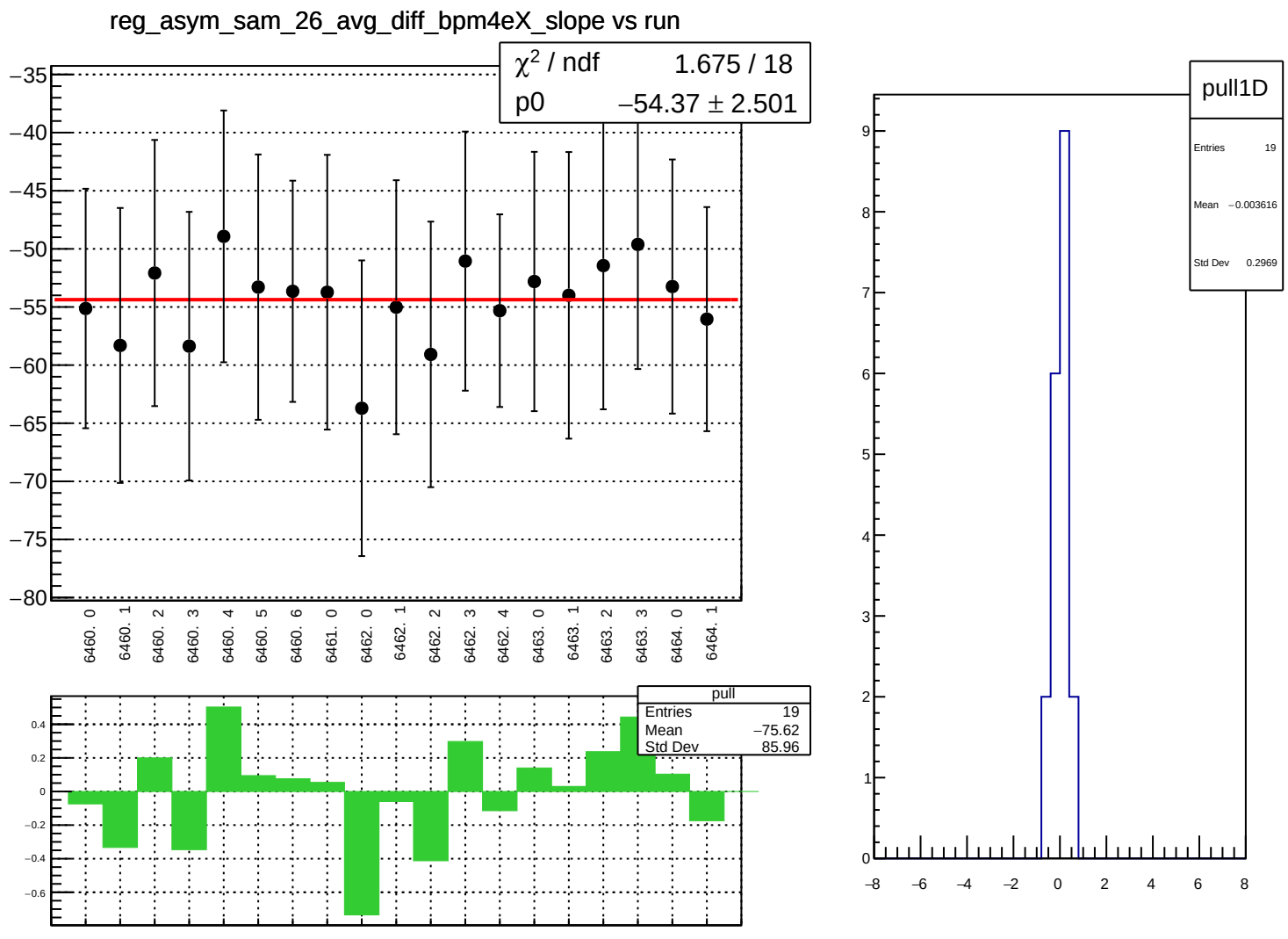

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 0.7457 / 18
p0 −0.122 ± 0.04211
0.1
0
−0.1
−0.2
−0.3
−0.4
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −72.46
Std Dev 81.71
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

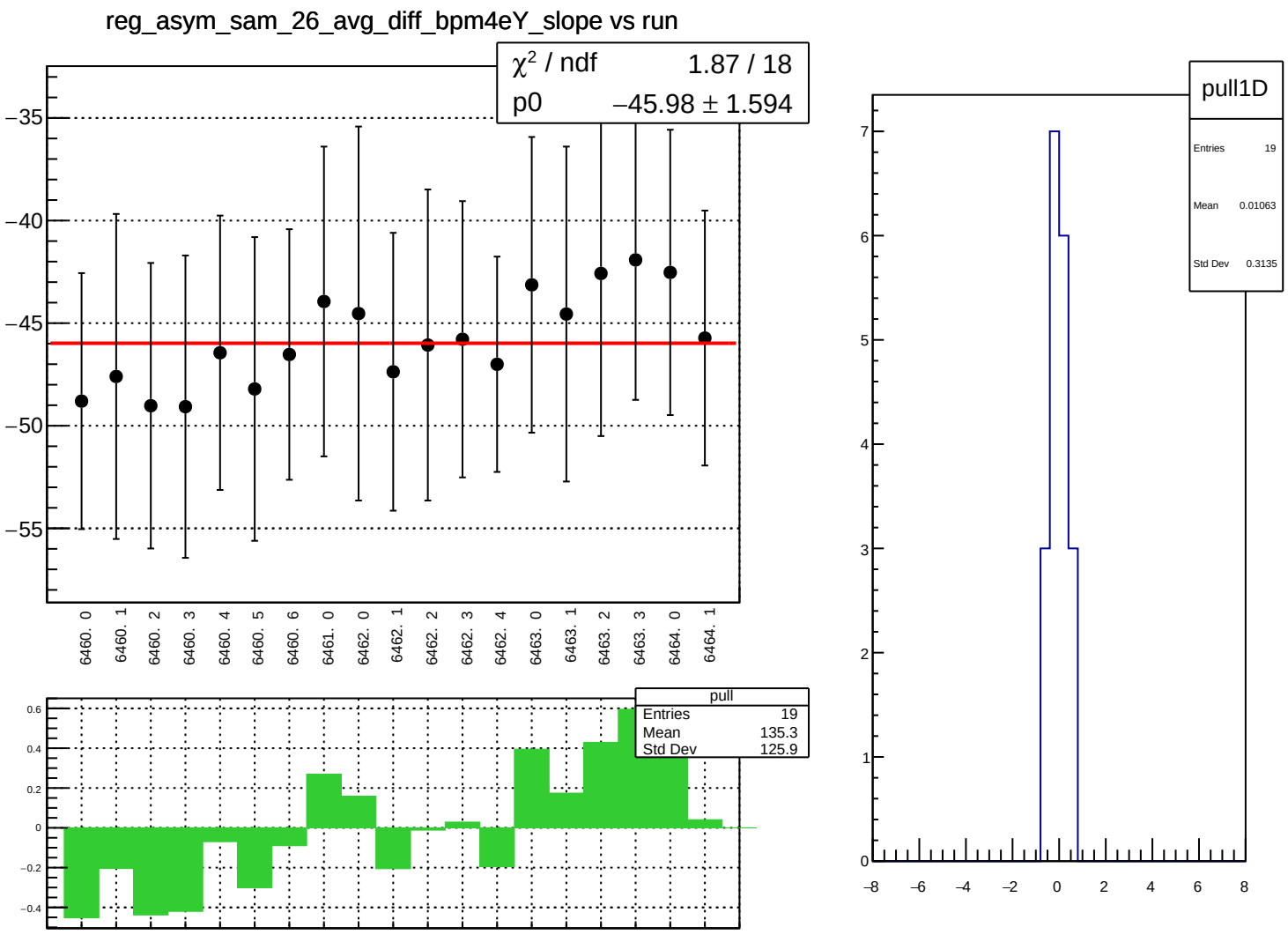

pull1D
Entries 19
Mean −0.008332
Std Dev 0.1979
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

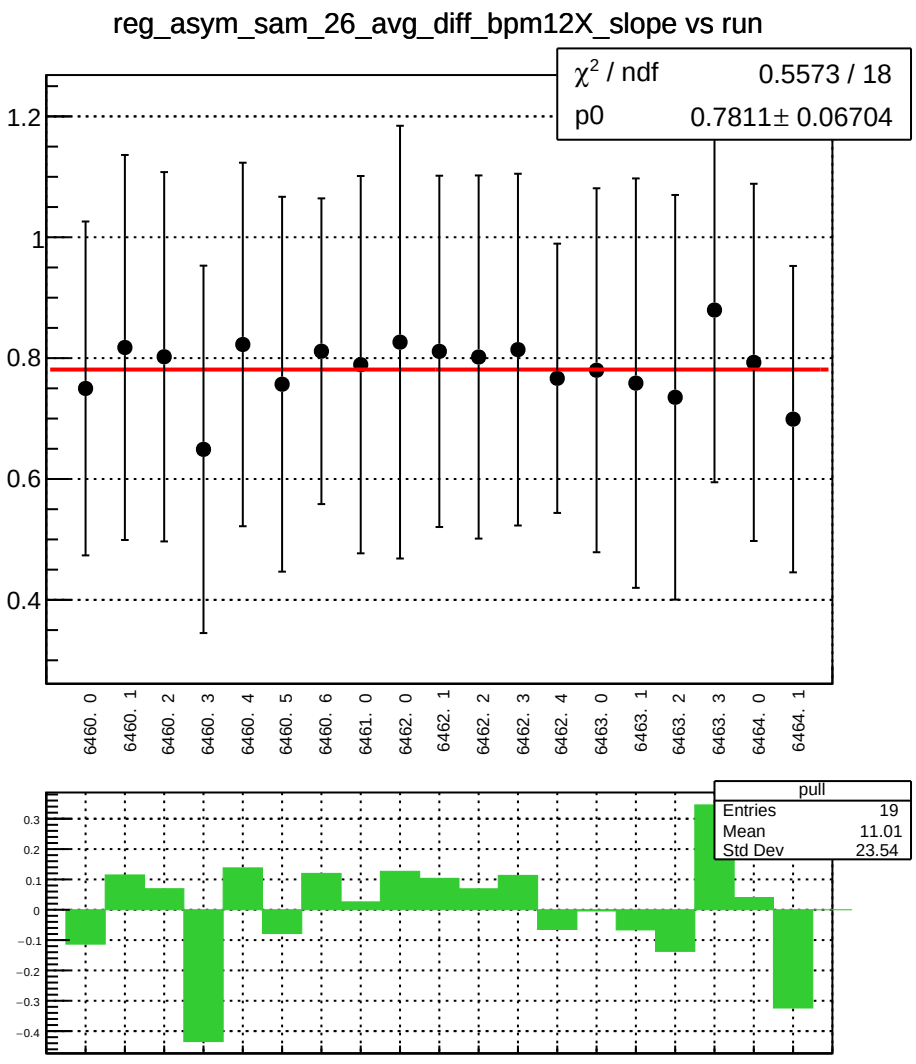

reg_asym_sam_26_avg_diff_bpm4aX_slope vs run
χ² / ndf 0.8357 / 18
p0 −21.29 ± 2.321
−5
−10
−15
−20
−25
−30
−35
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 102.7
Std Dev 94.68
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

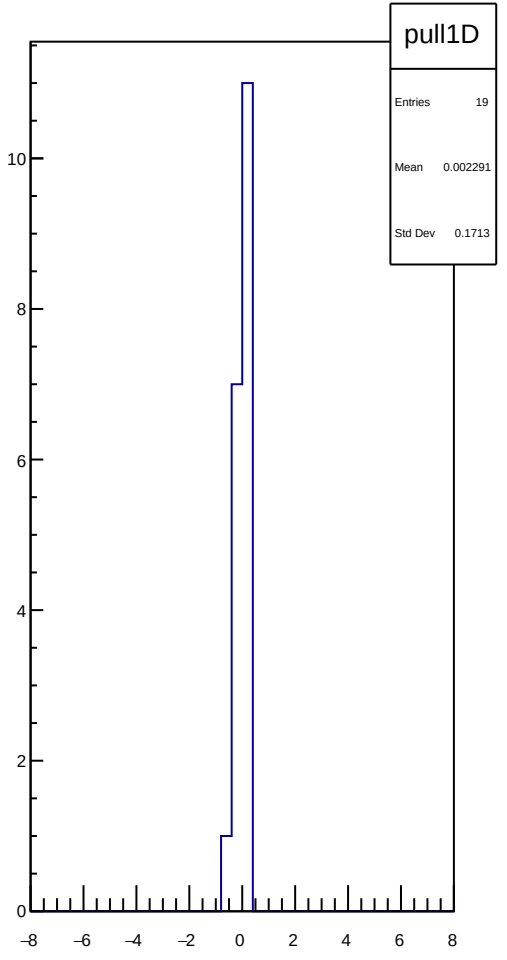

pull1D
Entries 19
Mean −0.001975
Std Dev 0.2097
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

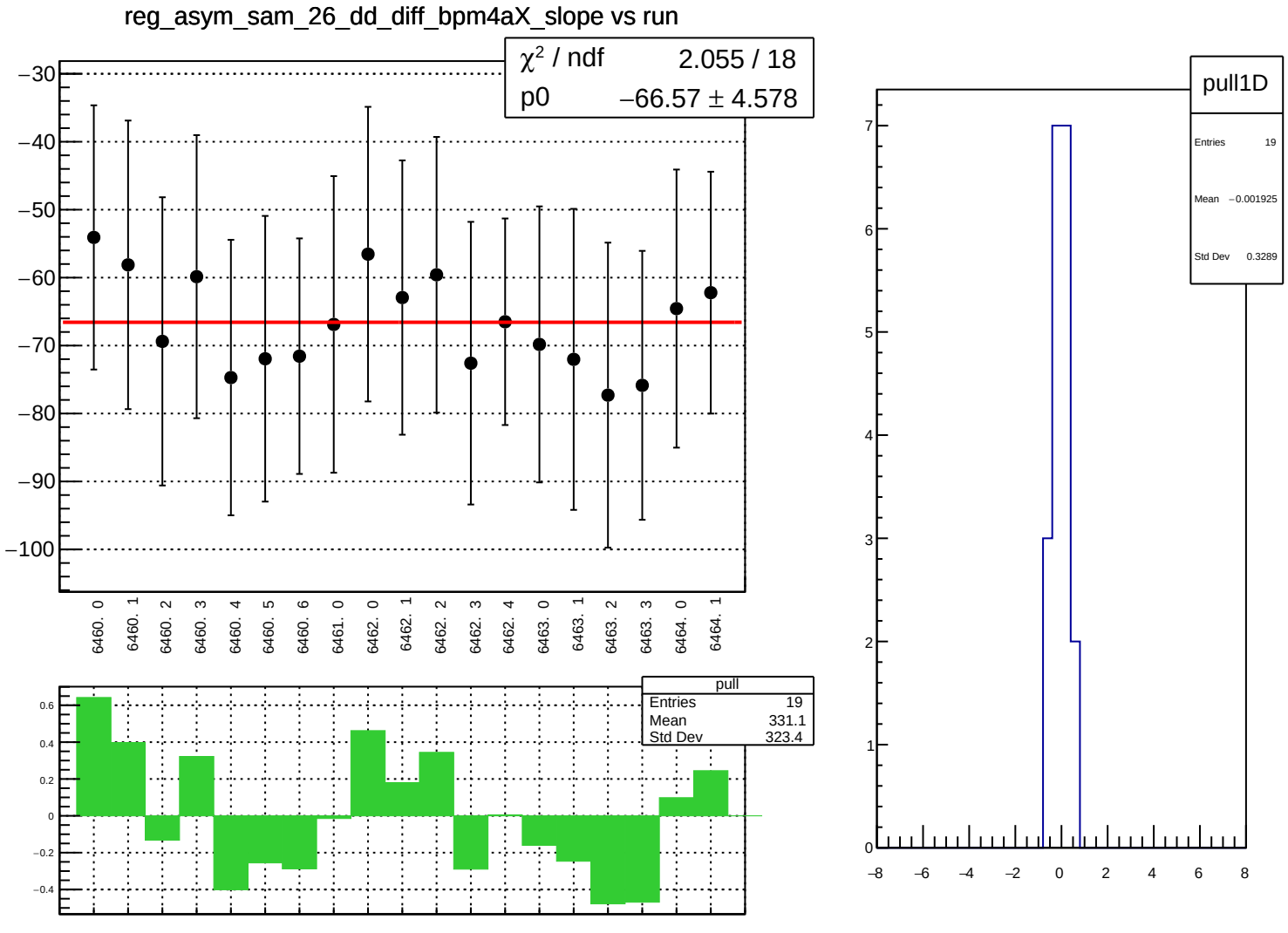

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.797 / 18
p0 1.842 ± 1.572
10
5
0
−5
−10
−15
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 48.57
Std Dev 39.58
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 19
Mean −0.02413
Std Dev 0.3066
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

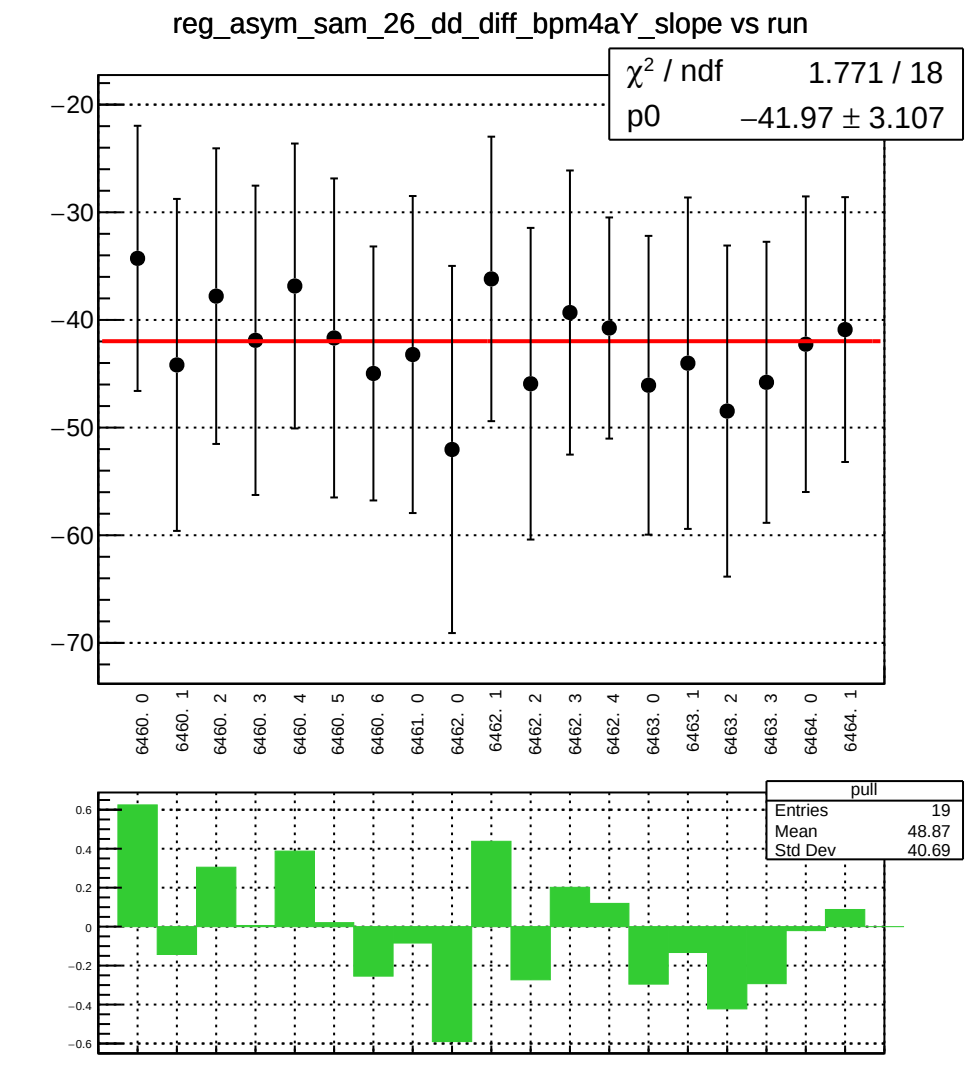

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.675 / 18
p0 −54.37 ± 2.501
−35
−40
−45
−50
−55
−60
−65
−70
−75
−80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −75.62
Std Dev 85.96
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 19
Mean −0.003616
Std Dev 0.2969
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

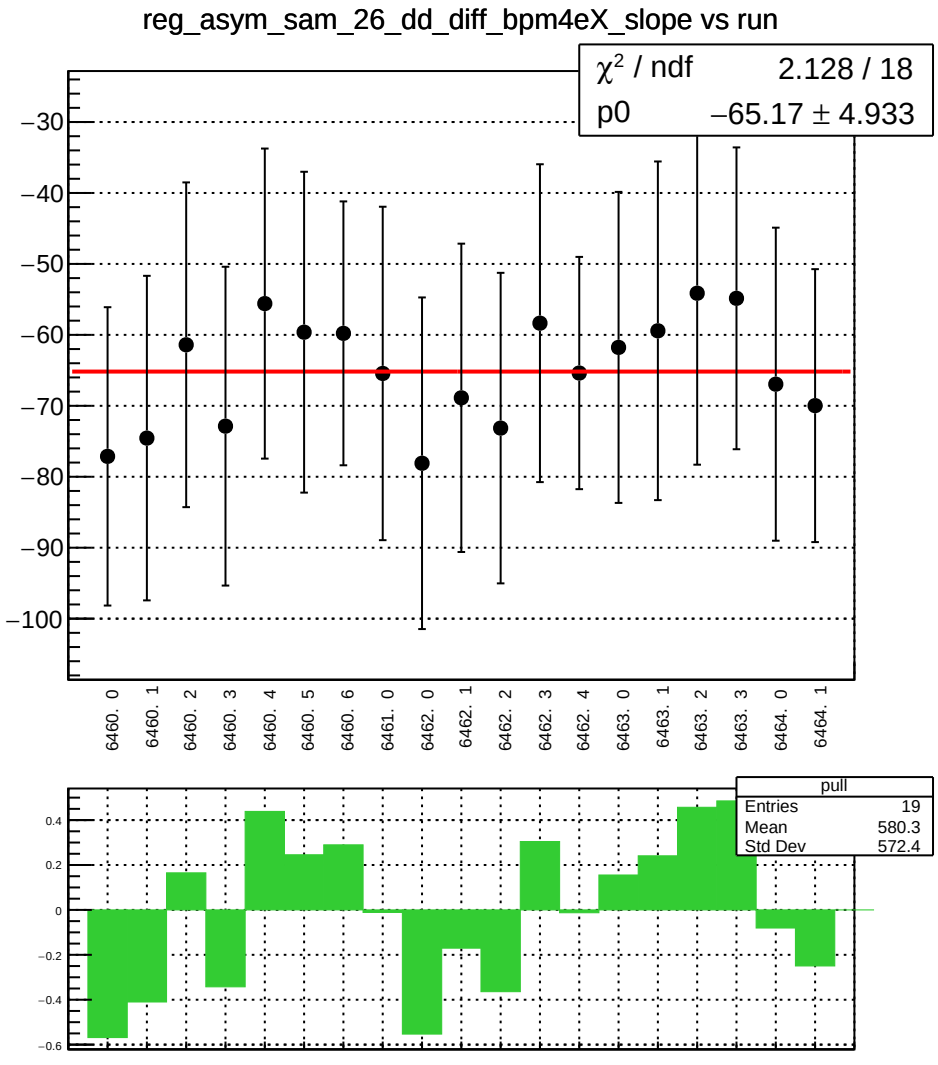

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.87 / 18
p0 −45.98 ± 1.594
−35
−40
−45
−50
−55
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 135.3
Std Dev 125.9
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 19
Mean 0.01063
Std Dev 0.3135
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

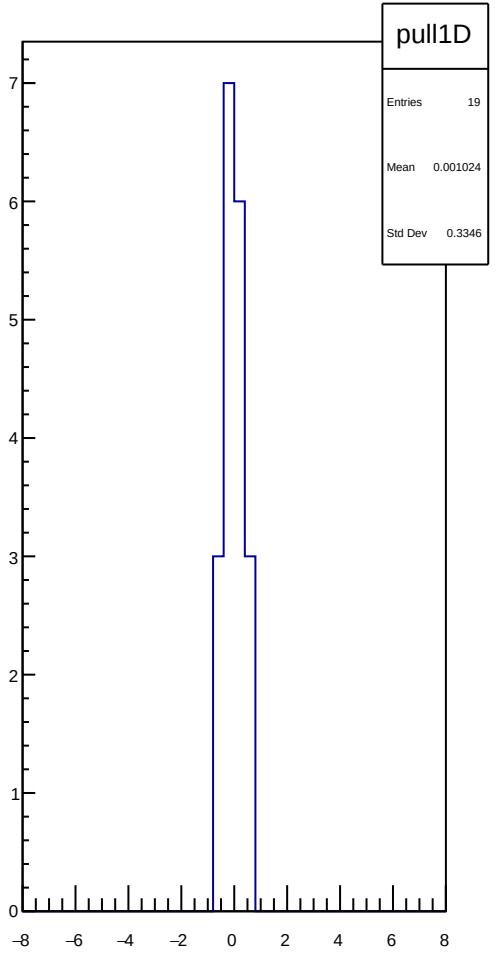

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 0.5573 / 18
p0 0.7811± 0.06704
1.2
1
0.8
0.6
0.4
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 11.01
Std Dev 23.54
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

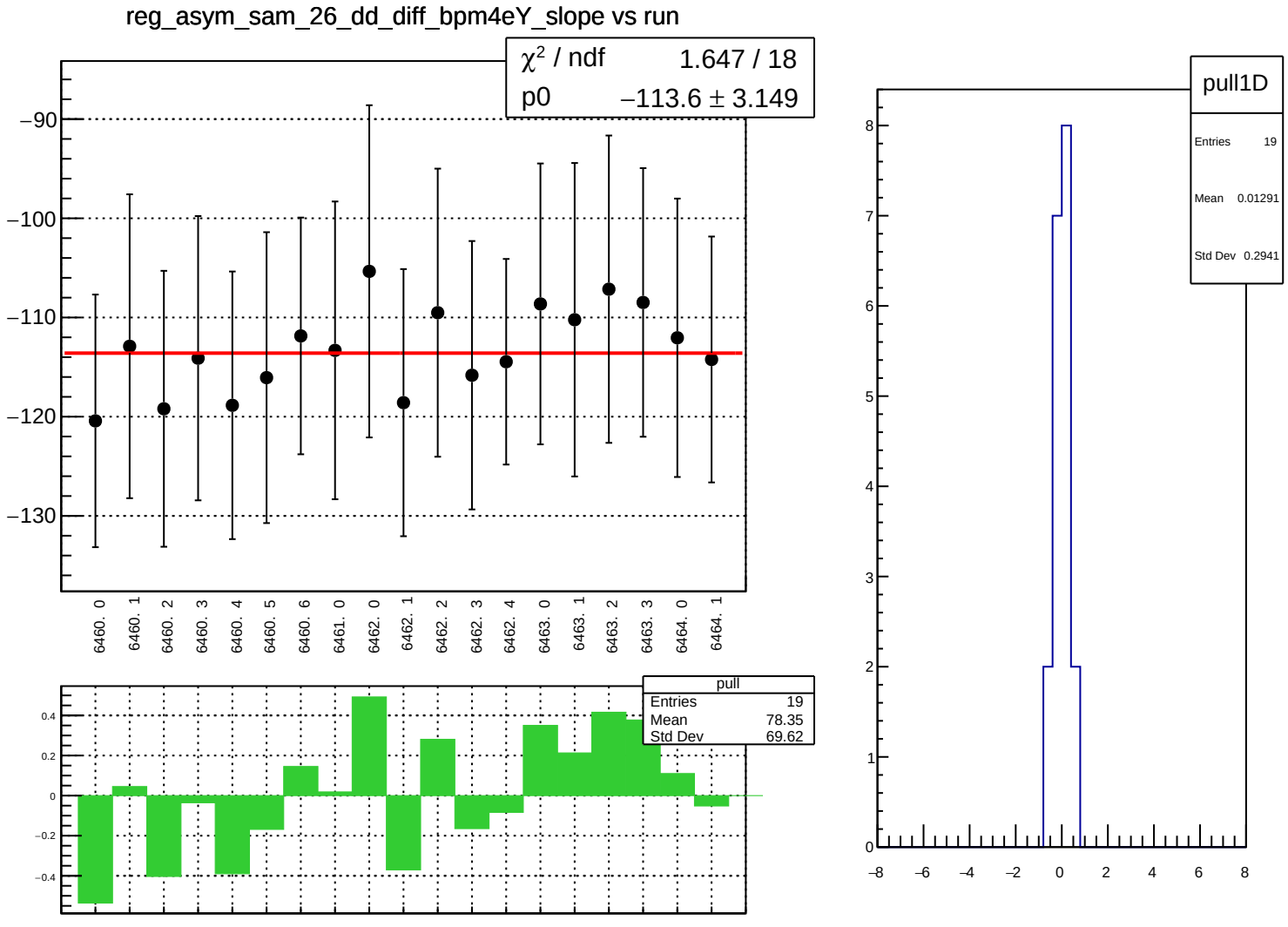

pull1D
Entries 19
Mean 0.002291
Std Dev 0.1713
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

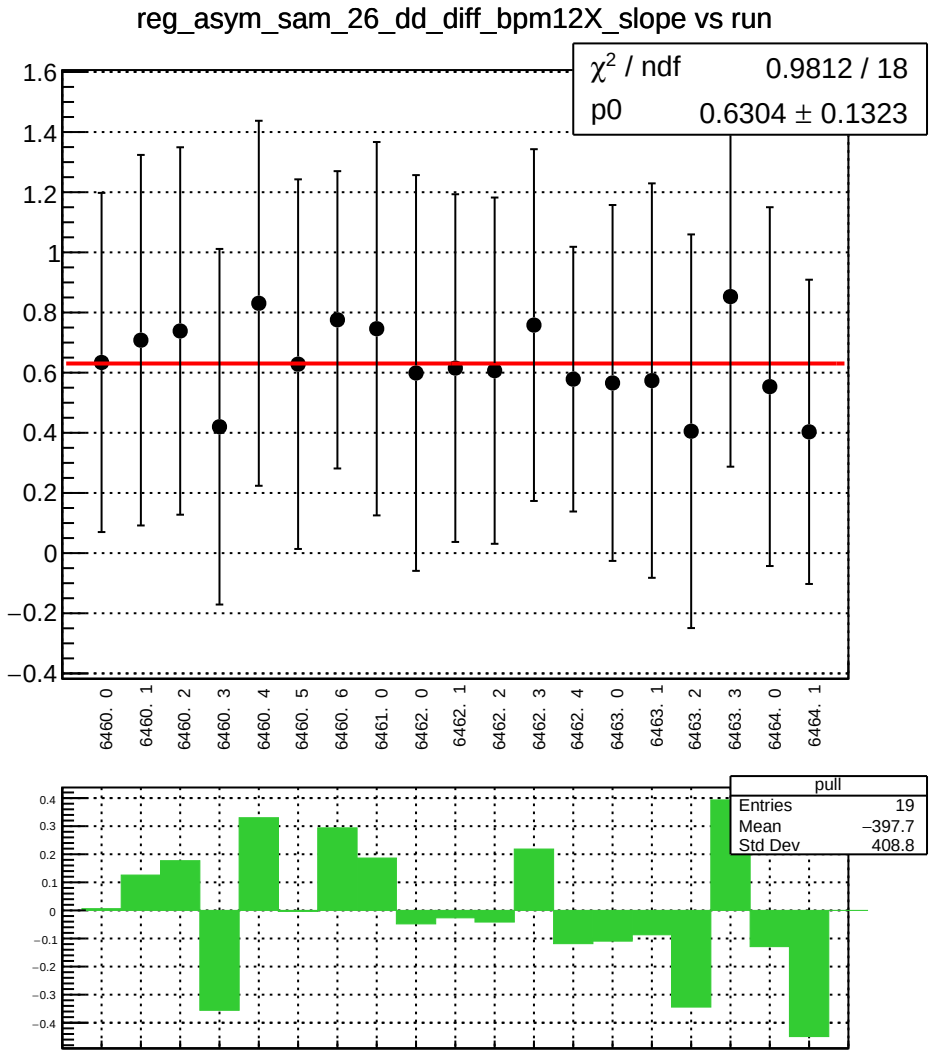

reg_asym_sam_26_dd_diff_bpm4aX_slope vs run
χ² / ndf 2.055 / 18
p0 −66.57 ± 4.578
−30
−40
−50
−60
−70
−80
−90
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 331.1
Std Dev 323.4
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 19
Mean −0.001925
Std Dev 0.3289
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

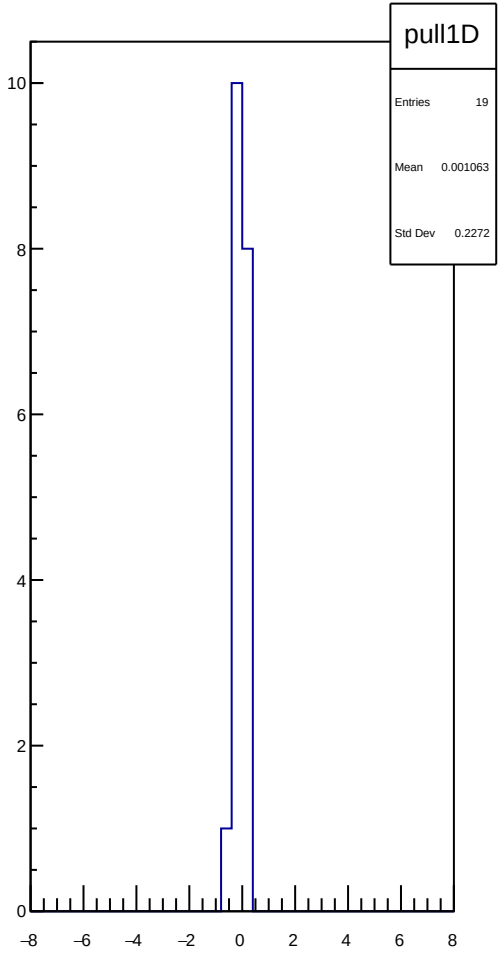

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.771 / 18
p0 −41.97 ± 3.107
−20
−30
−40
−50
−60
−70
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 48.87
Std Dev 40.69
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 19
Mean −0.01665
Std Dev 0.3049
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

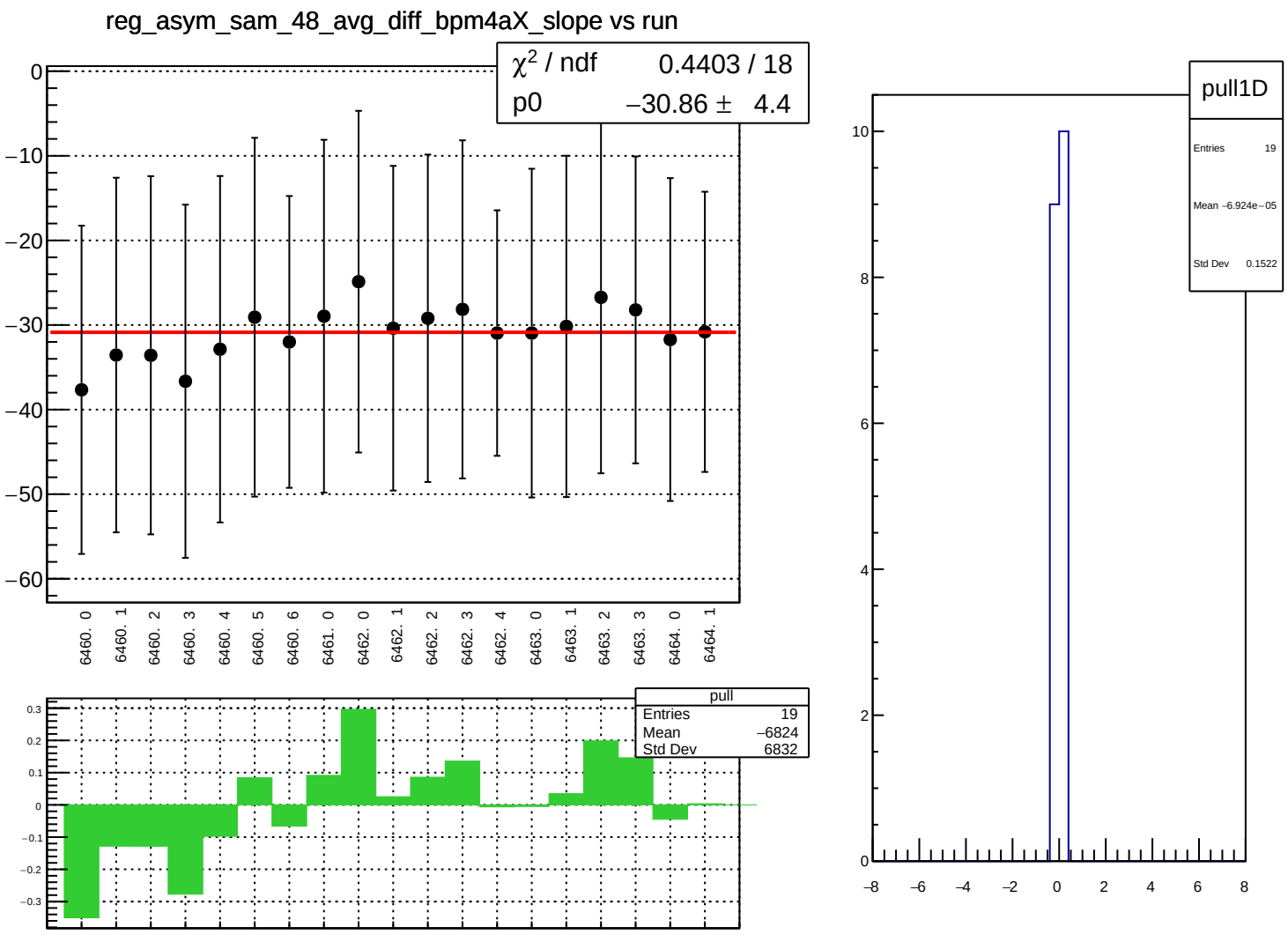

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.128 / 18
p0 −65.17 ± 4.933
−30
−40
−50
−60
−70
−80
−90
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 580.3
Std Dev 572.4
0.4
0.2
0
−0.2
−0.4
−0.6

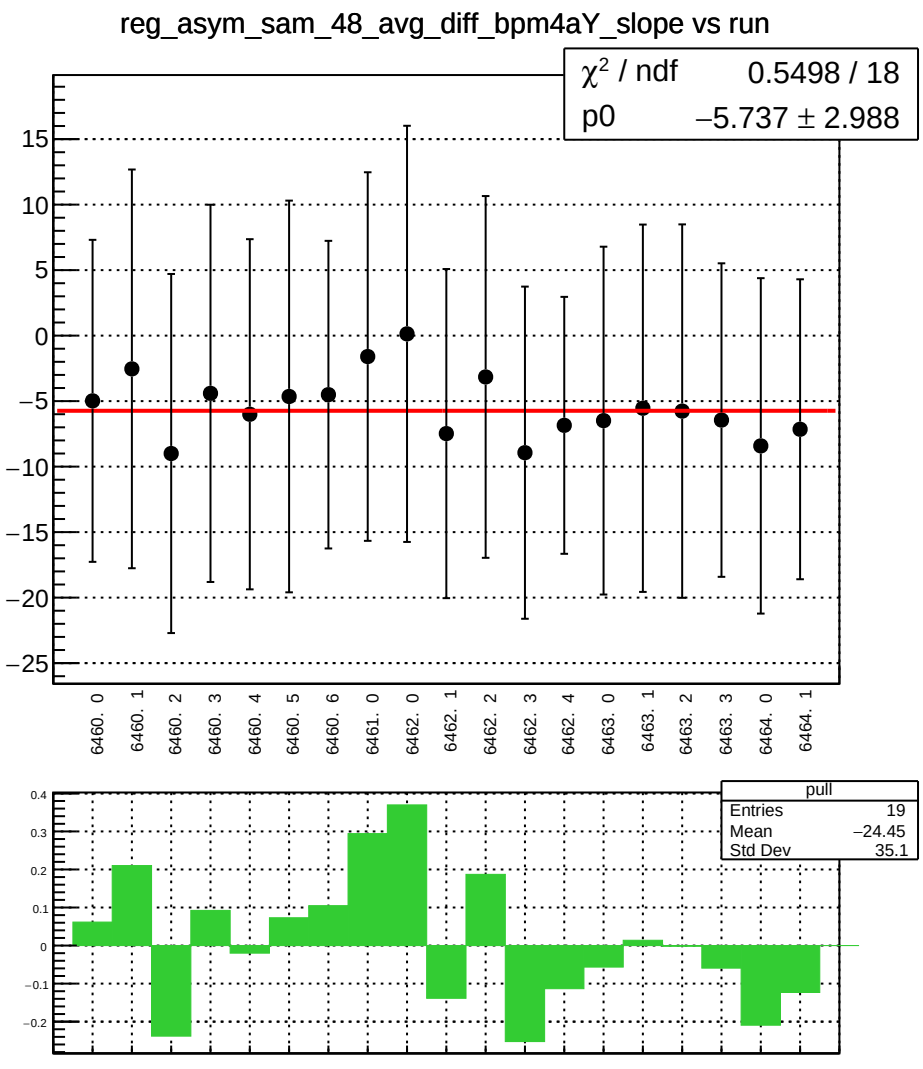

pull1D
Entries 19
Mean 0.001024
Std Dev 0.3346
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

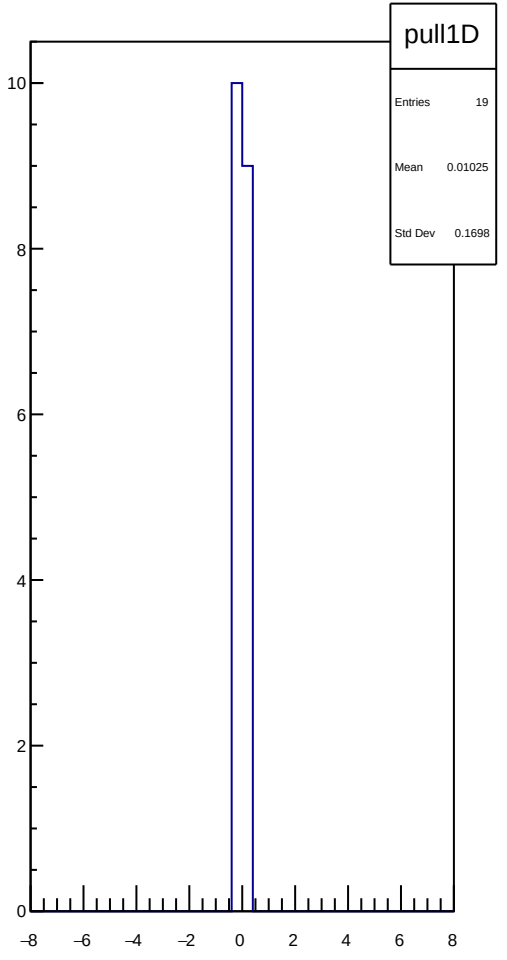

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.647 / 18
p0 −113.6 ± 3.149
−90
−100
−110
−120
−130
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 78.35
Std Dev 69.62
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 19
Mean 0.01291
Std Dev 0.2941
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

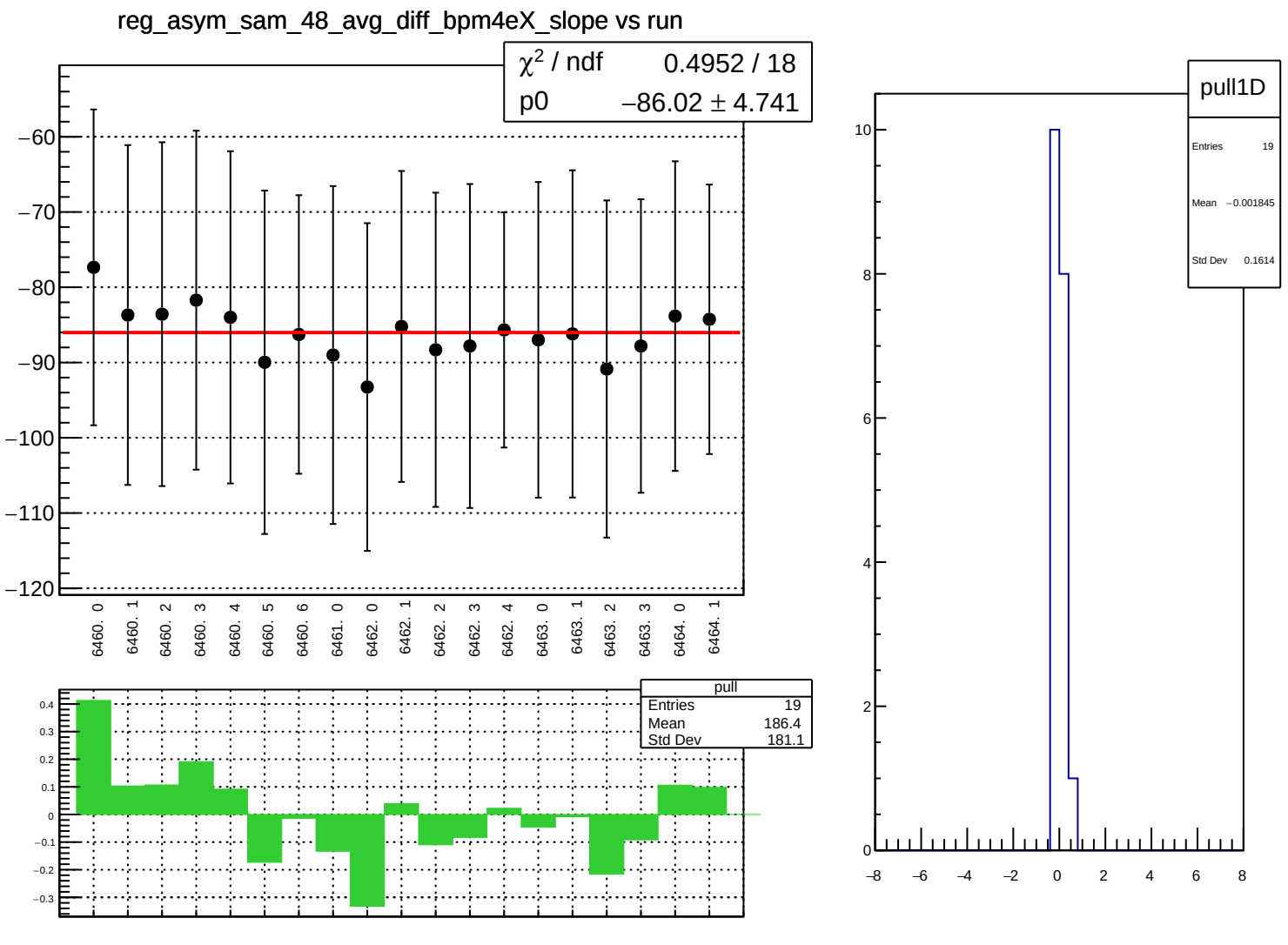

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 0.9812 / 18
p0 0.6304 ± 0.1323
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −397.7
Std Dev 408.8
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

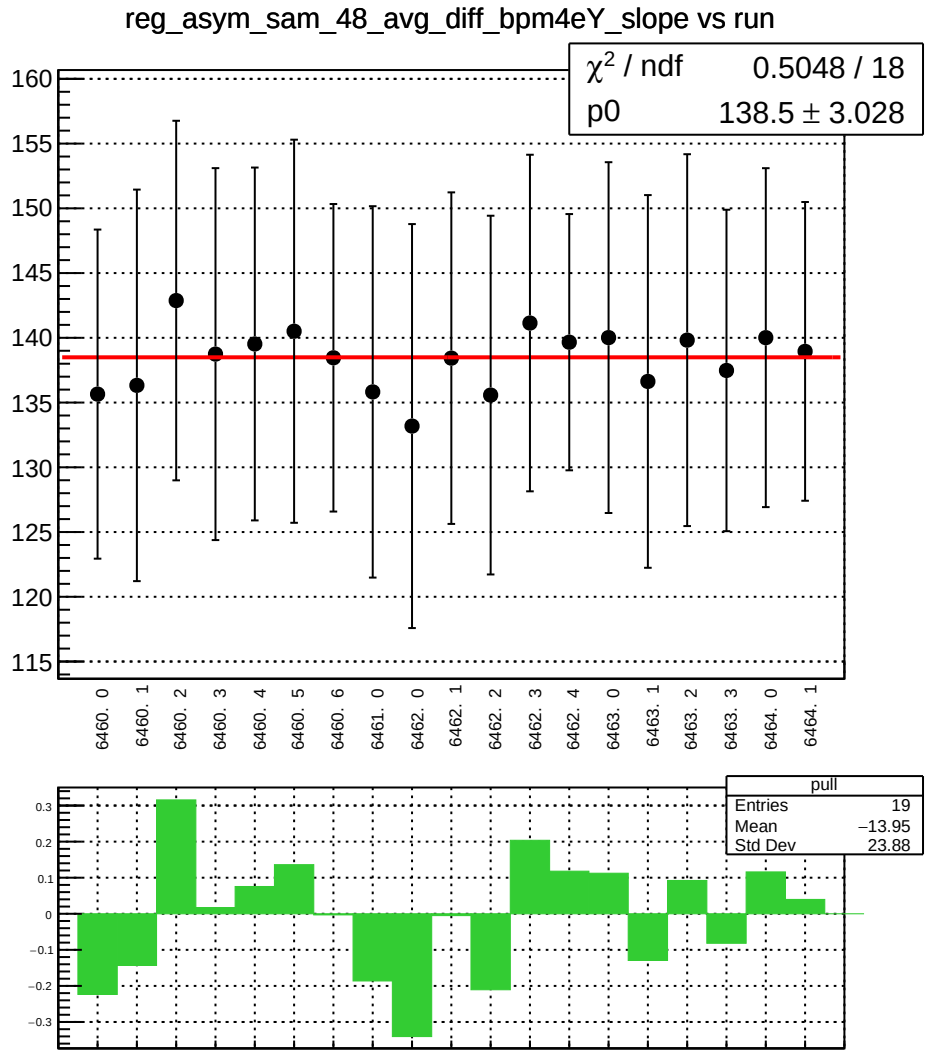

pull1D
Entries 19
Mean 0.001063
Std Dev 0.2272
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

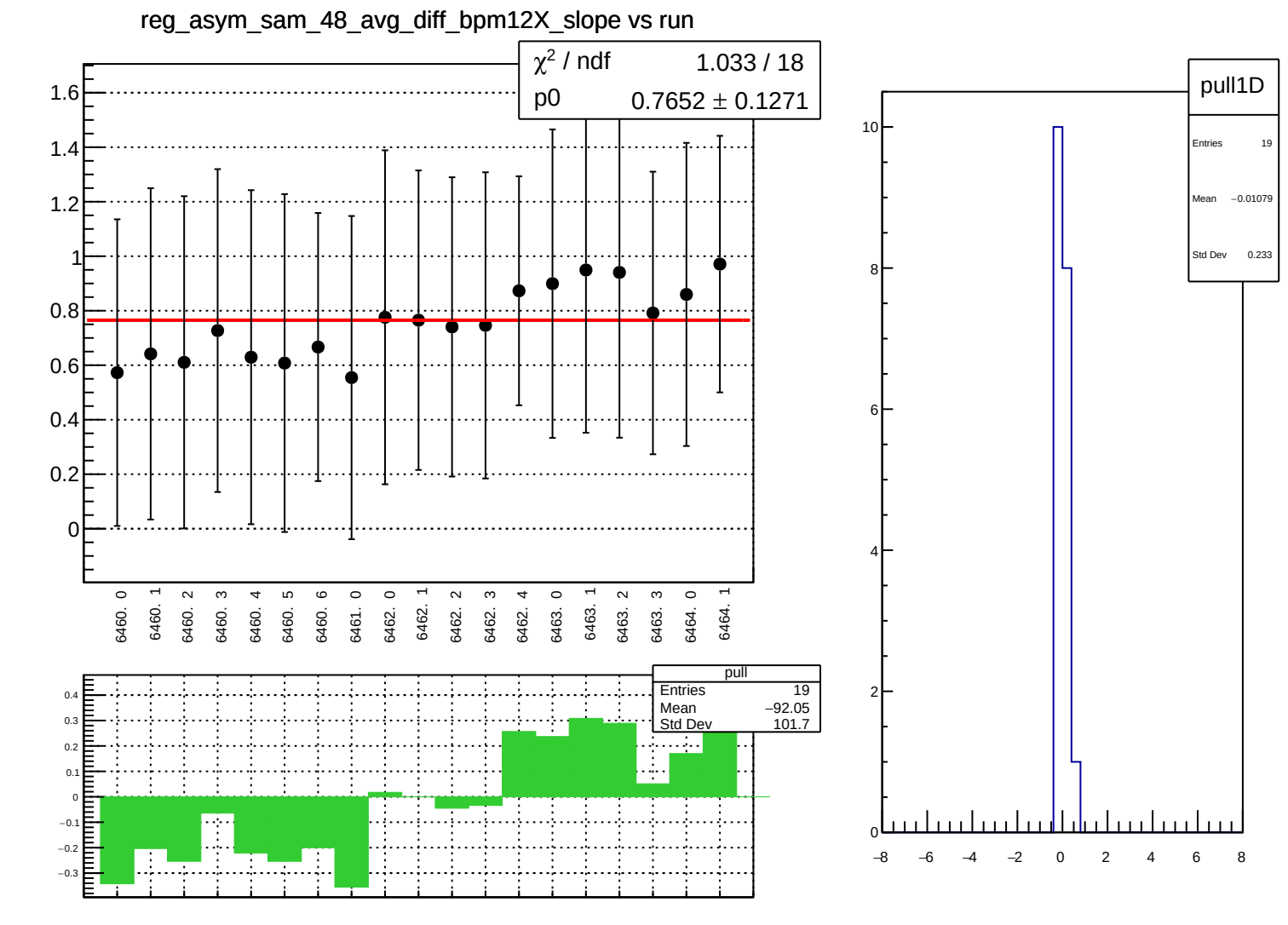

reg_asym_sam_48_avg_diff_bpm4aX_slope vs run
χ² / ndf 0.4403 / 18
p0 −30.86 ± 4.4
0
−10
−20
−30
−40
−50
−60
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −6824
Std Dev 6832
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 19
Mean −6.924e−05
Std Dev 0.1522
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

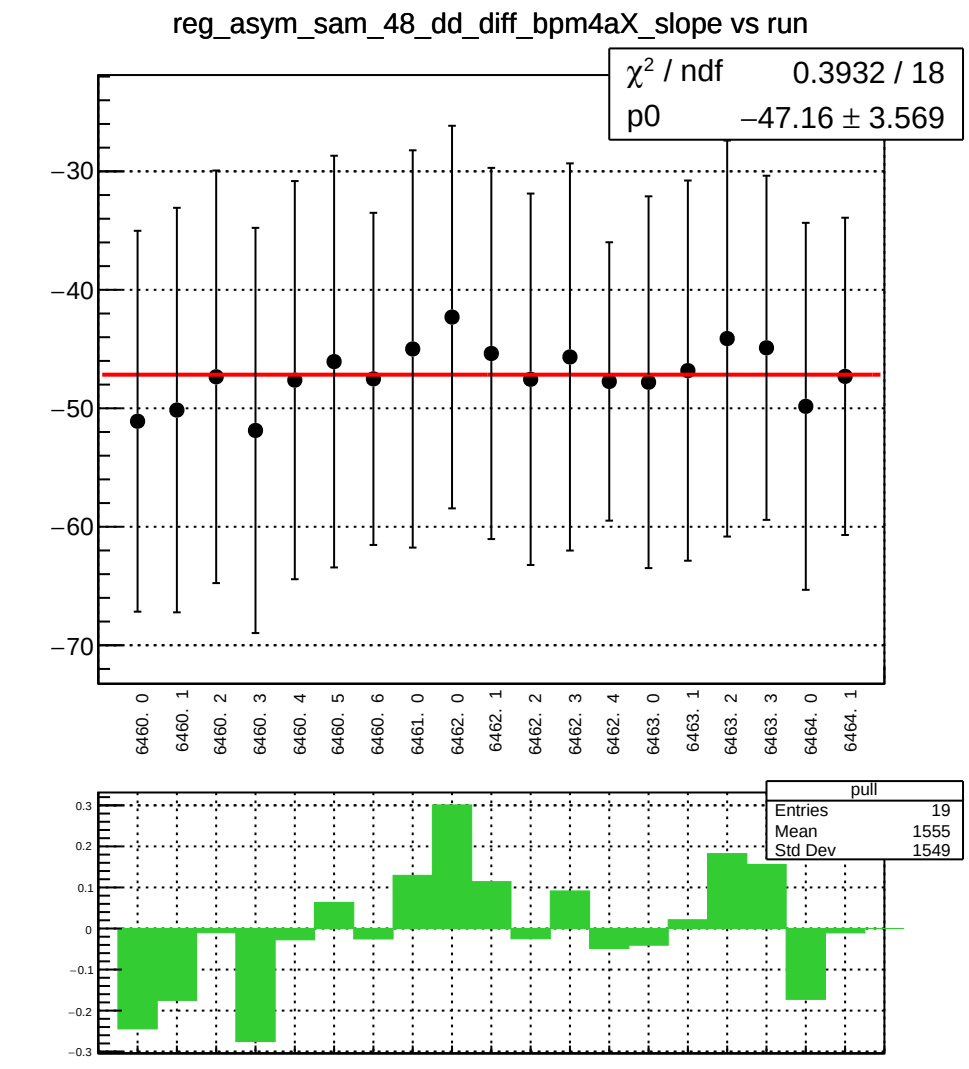

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.5498 / 18
p0 −5.737 ± 2.988
15
10
5
0
−5
−10
−15
−20
−25
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −24.45
Std Dev 35.1
0.4
0.3
0.2
0.1
0
−0.1
−0.2

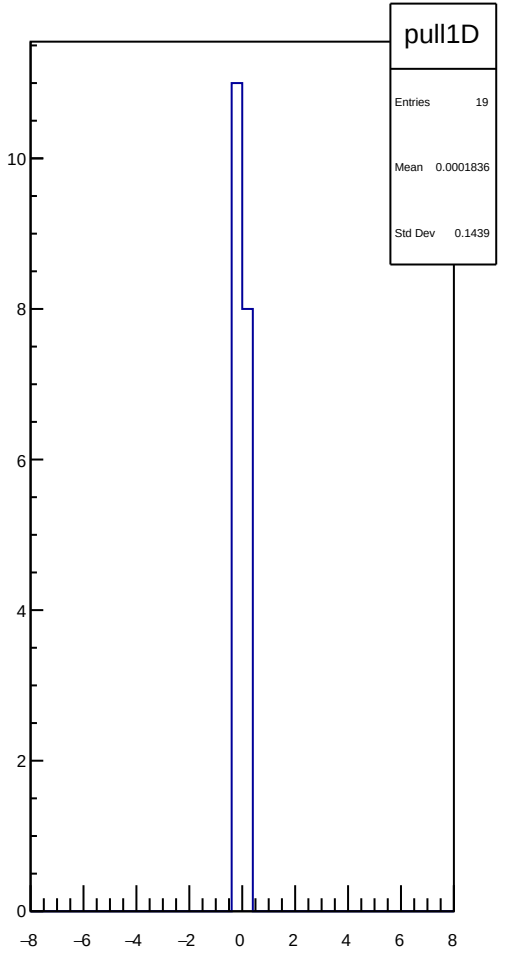

pull1D
Entries 19
Mean 0.01025
Std Dev 0.1698
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

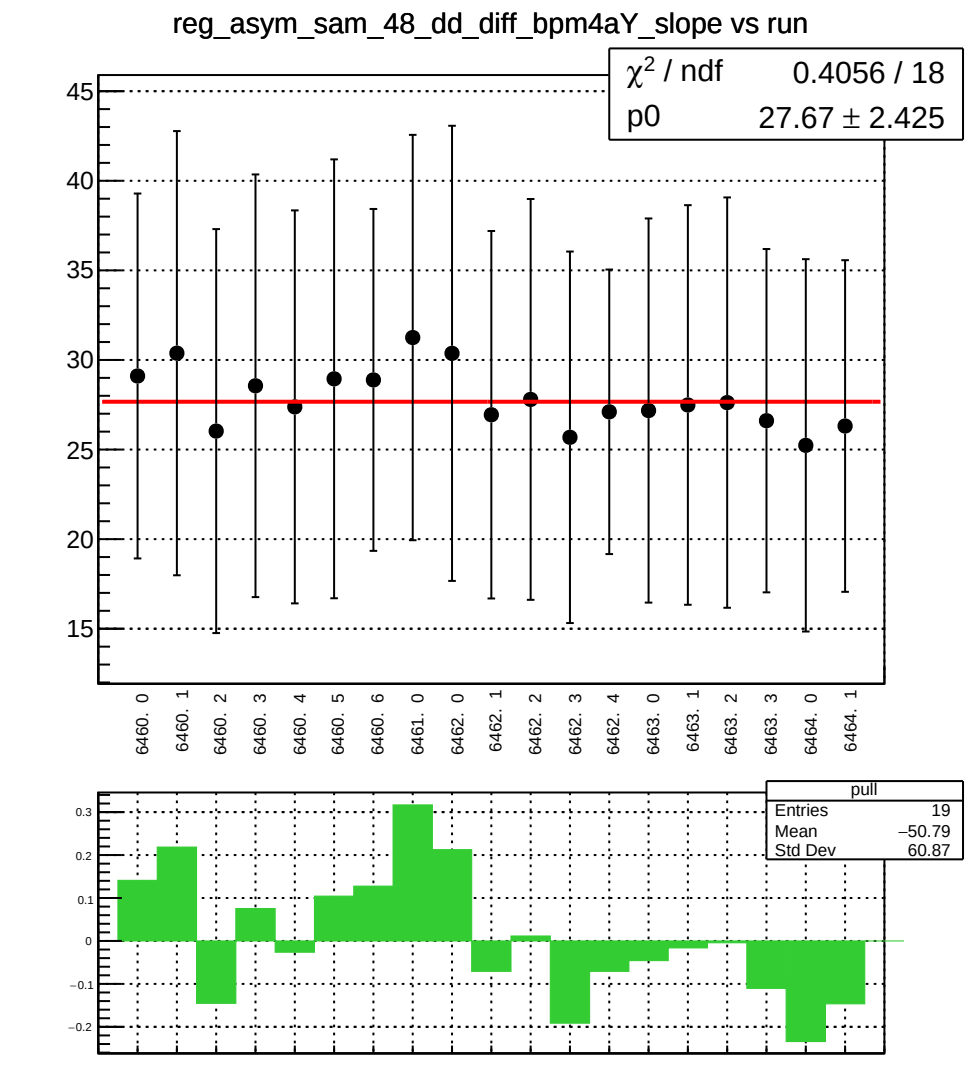

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 0.4952 / 18
p0 −86.02 ± 4.741
−60
−70
−80
−90
−100
−110
−120
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 186.4
Std Dev 181.1
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 19
Mean −0.001845
Std Dev 0.1614
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

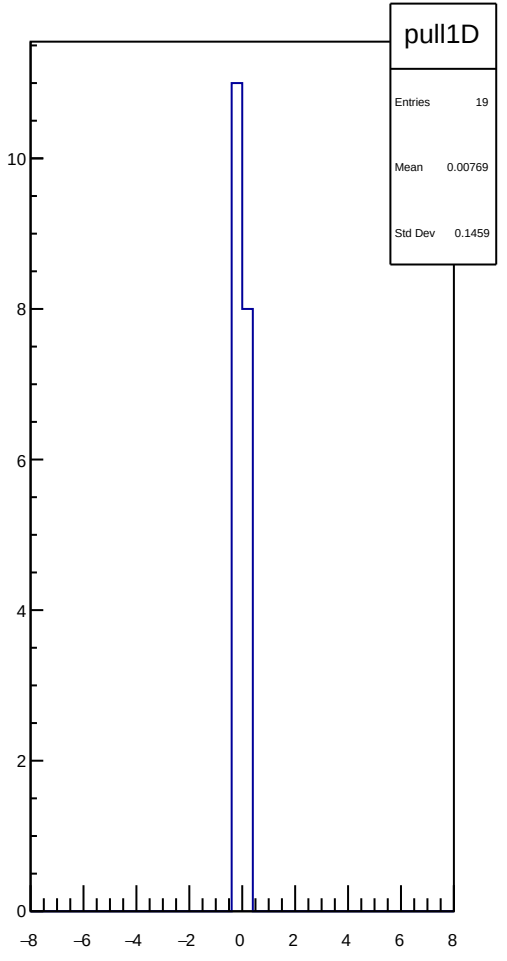

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.5048 / 18
p0 138.5 ± 3.028
160
155
150
145
140
135
130
125
120
115
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −13.95
Std Dev 23.88
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 19
Mean −0.005088
Std Dev 0.1629
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

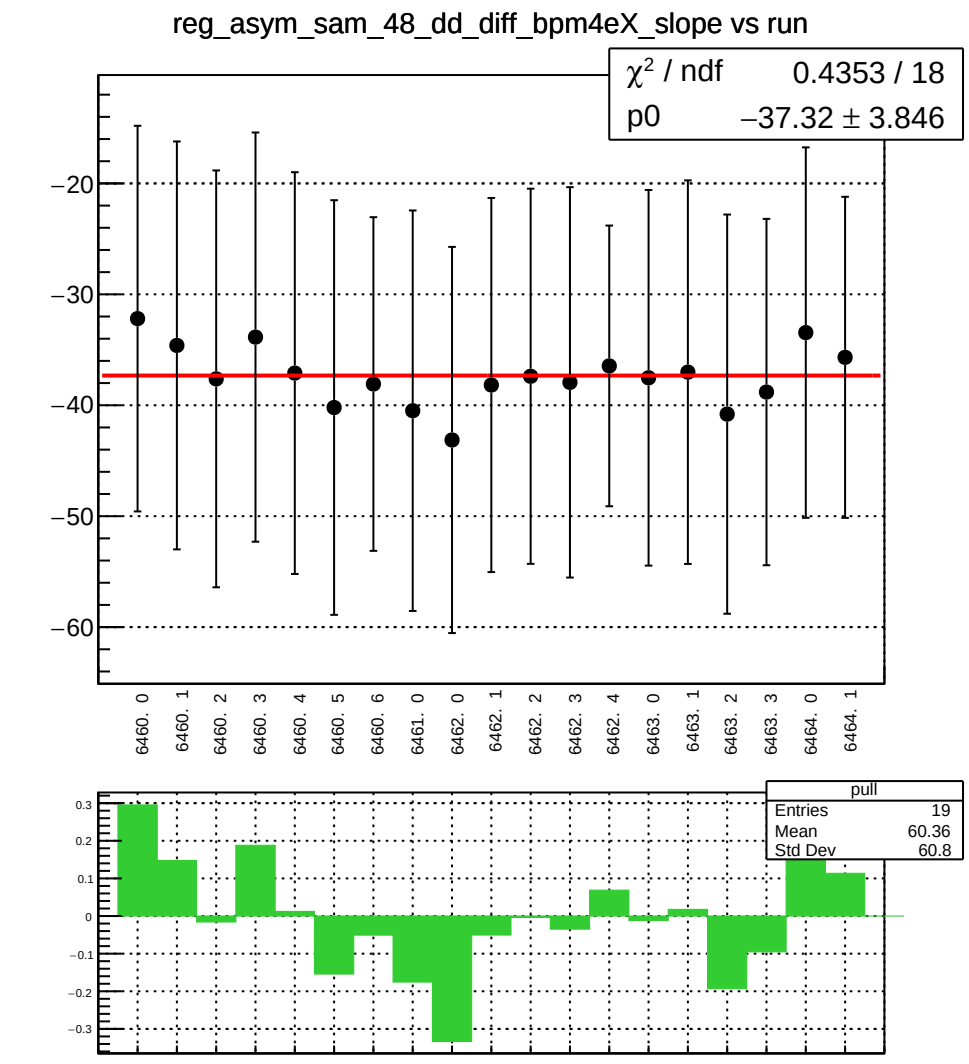

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 1.033 / 18
p0 0.7652 ± 0.1271
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −92.05
Std Dev 101.7
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 19
Mean −0.01079
Std Dev 0.233
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

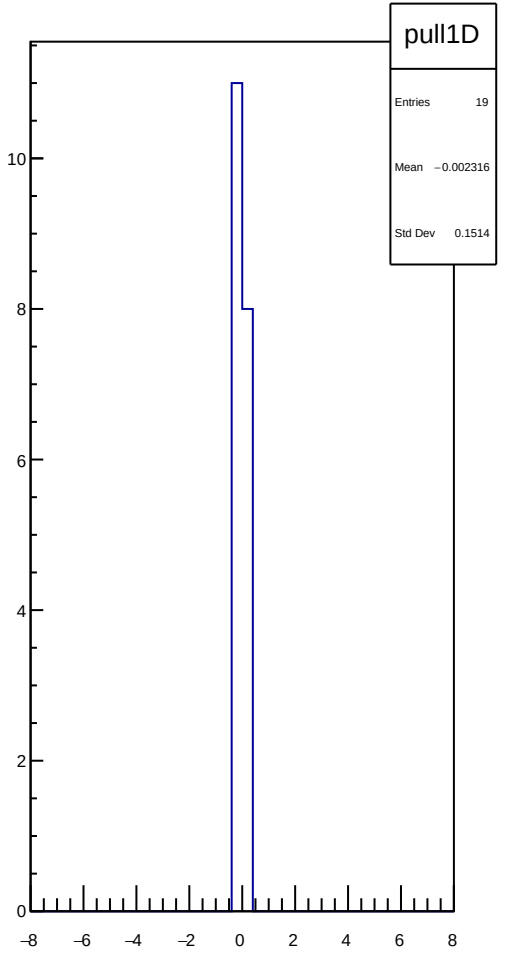

reg_asym_sam_48_dd_diff_bpm4aX_slope vs run
χ² / ndf 0.3932 / 18
p0 −47.16 ± 3.569
−30
−40
−50
−60
−70
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 1555
Std Dev 1549
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

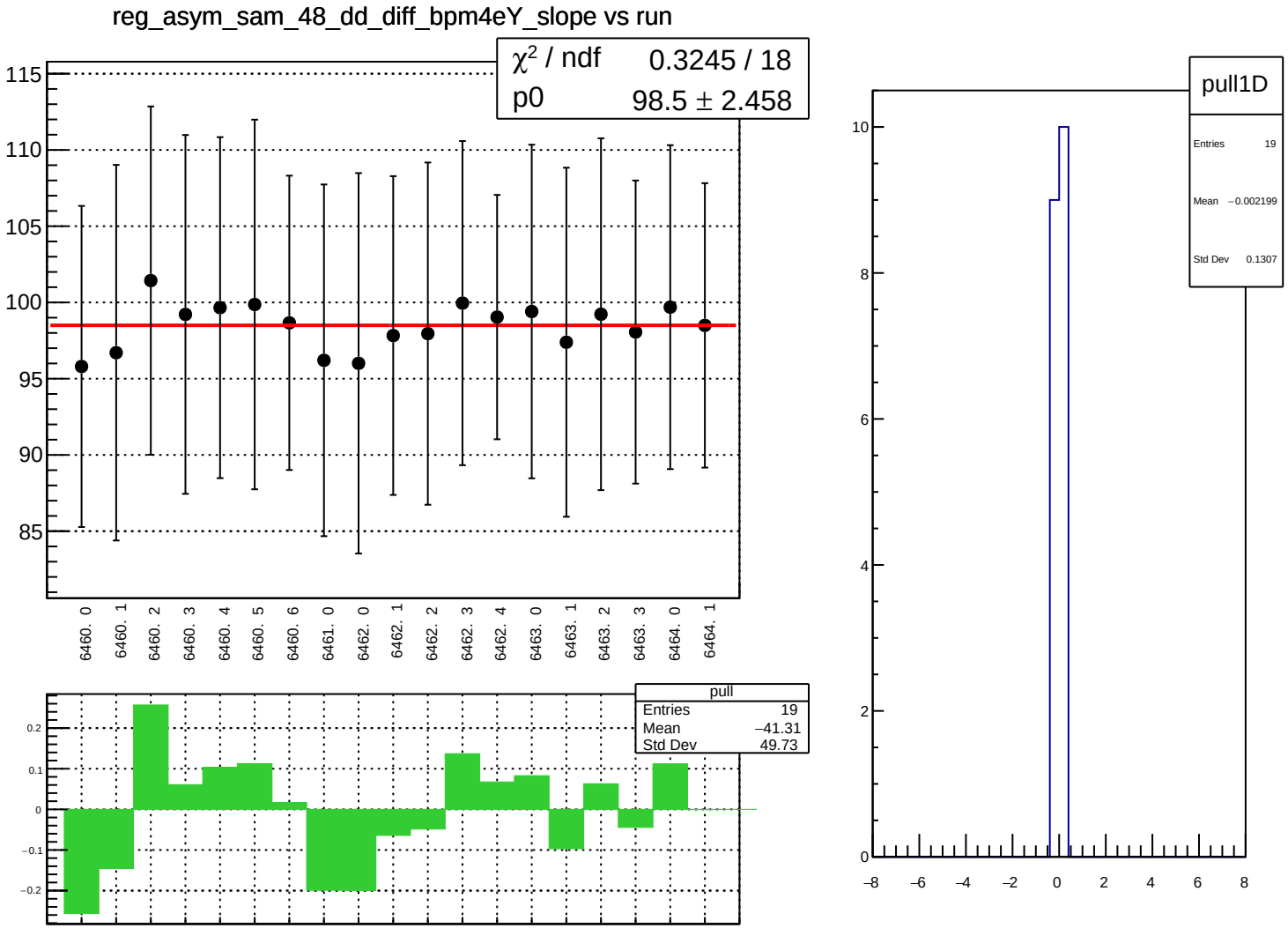

pull1D
Entries 19
Mean 0.0001836
Std Dev 0.1439
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

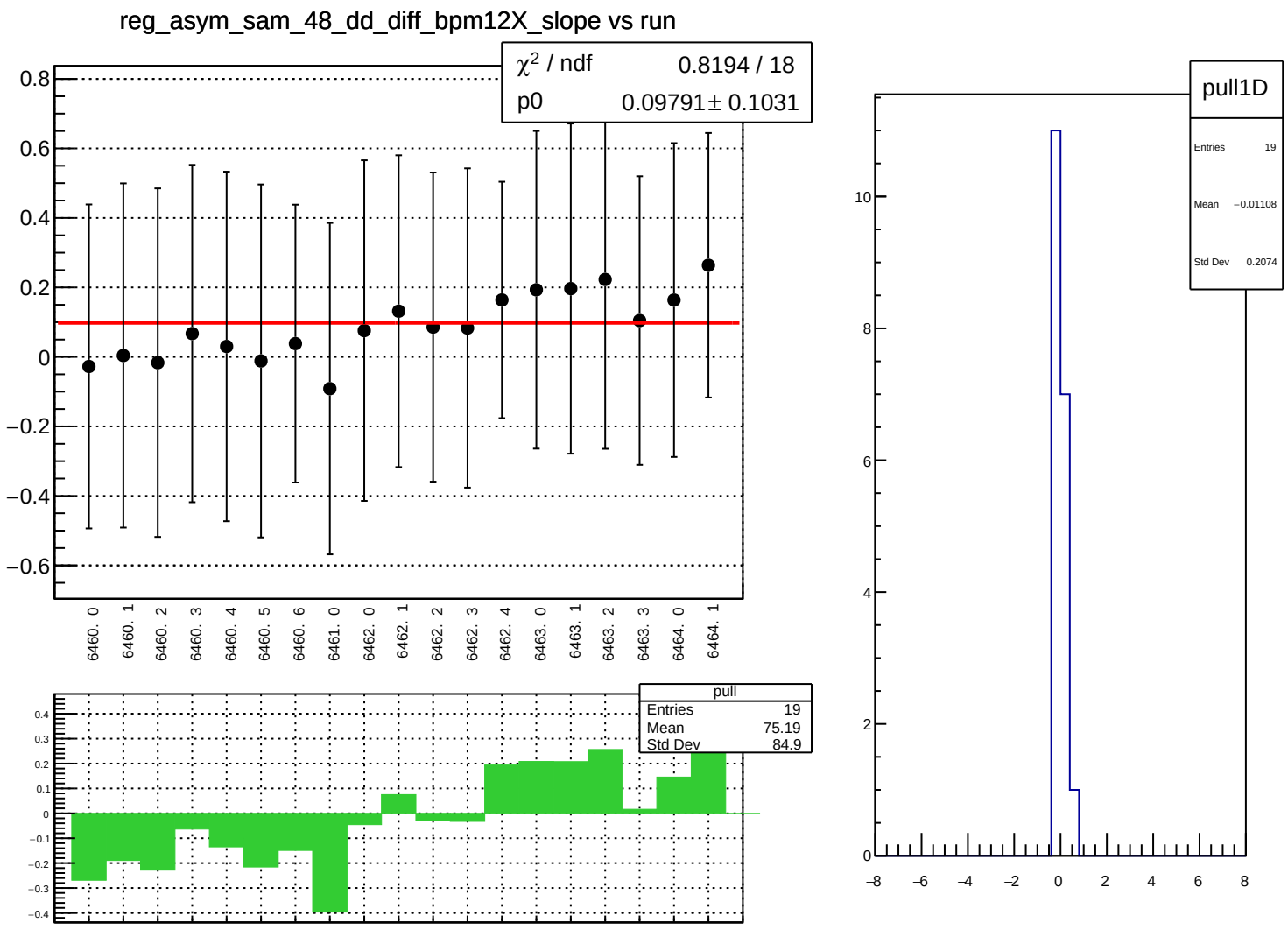

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.4056 / 18
p0 27.67 ± 2.425
45
40
35
30
25
20
15
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −50.79
Std Dev 60.87
0.3
0.2
0.1
0
−0.1
−0.2

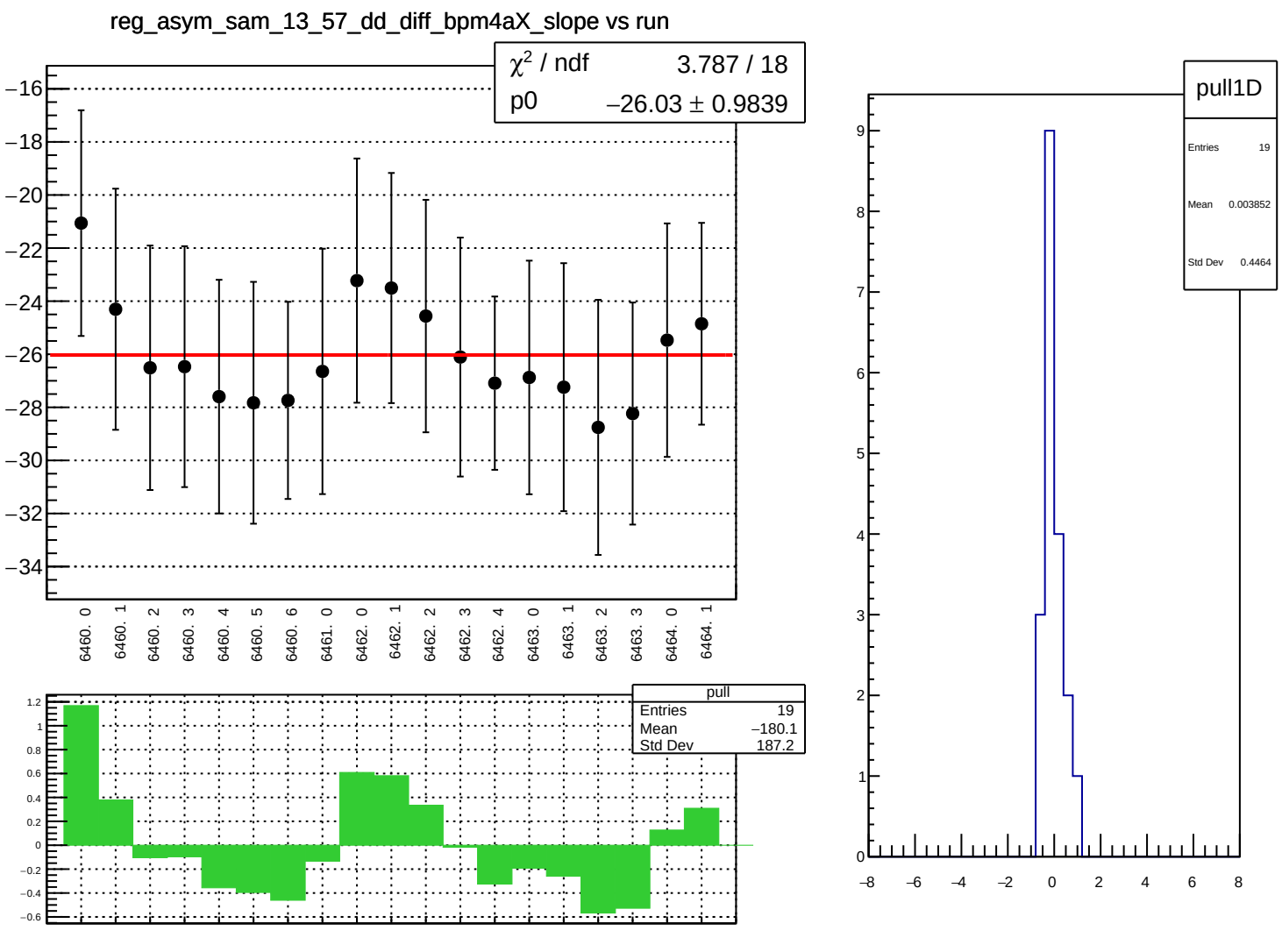

pull1D
Entries 19
Mean 0.00769
Std Dev 0.1459
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

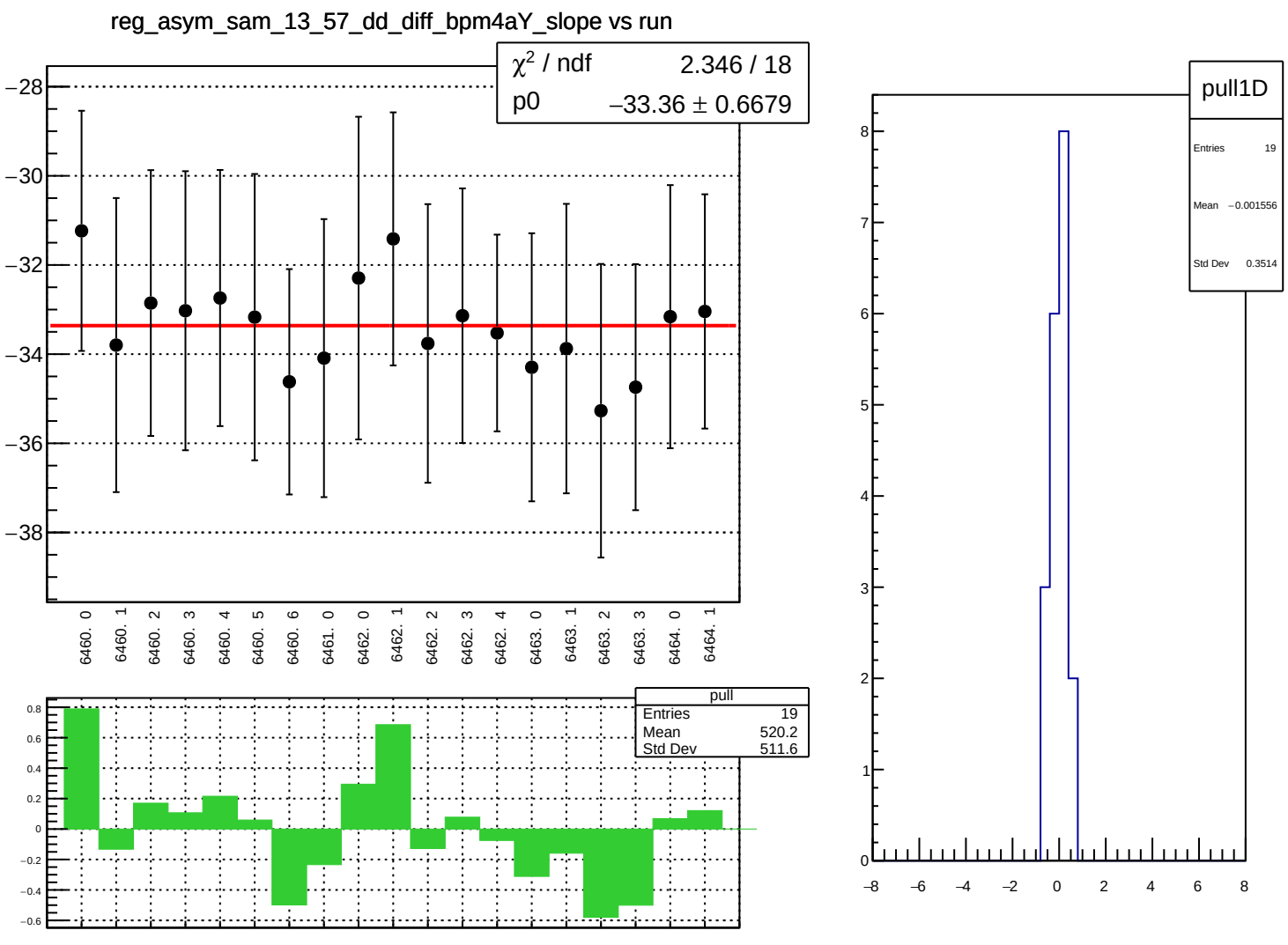

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.4353 / 18
p0 −37.32 ± 3.846
−20
−30
−40
−50
−60
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 60.36
Std Dev 60.8
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

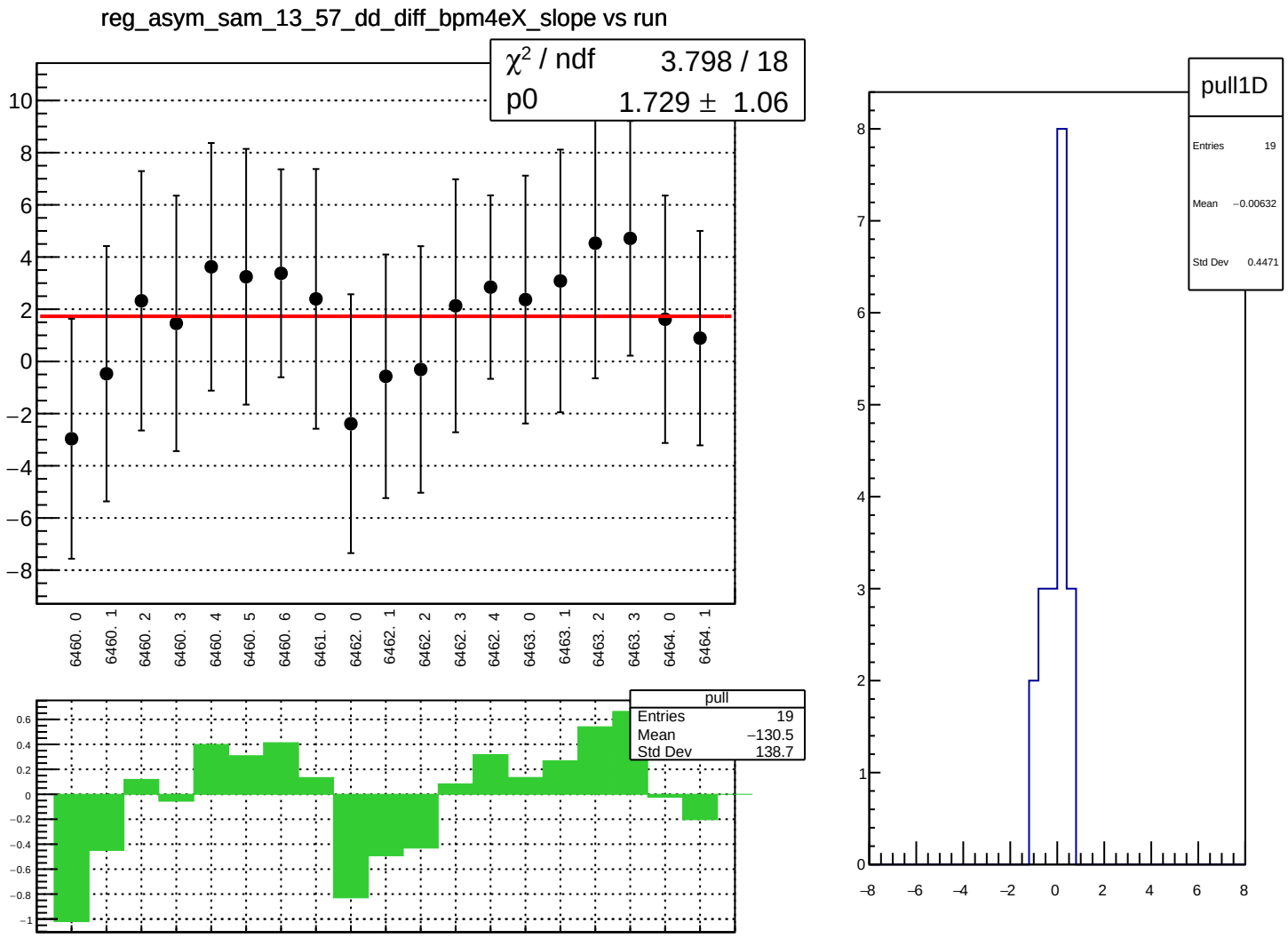

pull1D
Entries 19
Mean −0.002316
Std Dev 0.1514
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

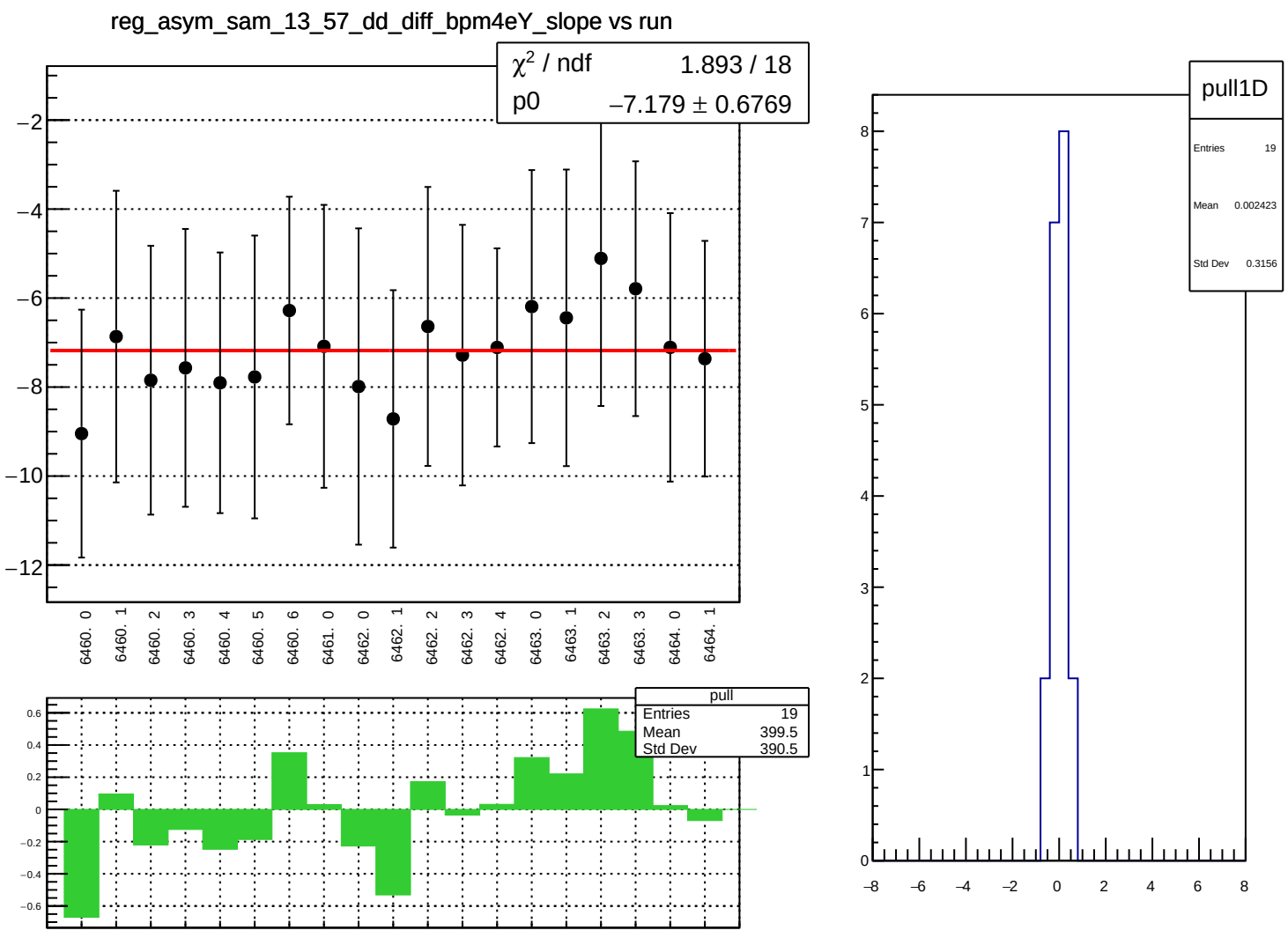

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.3245 / 18
p0 98.5 ± 2.458
115
110
105
100
95
90
85
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −41.31
Std Dev 49.73
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 19
Mean −0.002199
Std Dev 0.1307
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 0.8194 / 18
p0 0.09791 ± 0.1031
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −75.19
Std Dev 84.9
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 19
Mean −0.01108
Std Dev 0.2074
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_13_57_dd_diff_bpm4aX_slope vs run
χ² / ndf 3.787 / 18
p0 −26.03 ± 0.9839
−16
−18
−20
−22
−24
−26
−28
−30
−32
−34
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −180.1
Std Dev 187.2
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 19
Mean 0.003852
Std Dev 0.4464
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.346 / 18
p0 −33.36 ± 0.6679
−28
−30
−32
−34
−36
−38
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 520.2
Std Dev 511.6
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 19
Mean −0.001556
Std Dev 0.3514
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.798 / 18
p0 1.729 ± 1.06
10
8
6
4
2
0
−2
−4
−6
−8
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −130.5
Std Dev 138.7
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 19
Mean −0.00632
Std Dev 0.4471
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.893 / 18
p0 −7.179 ± 0.6769
−2
−4
−6
−8
−10
−12
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 399.5
Std Dev 390.5
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 19
Mean 0.002423
Std Dev 0.3156
8
7
6
5
4
3
2
1
0
−8
−6
−4
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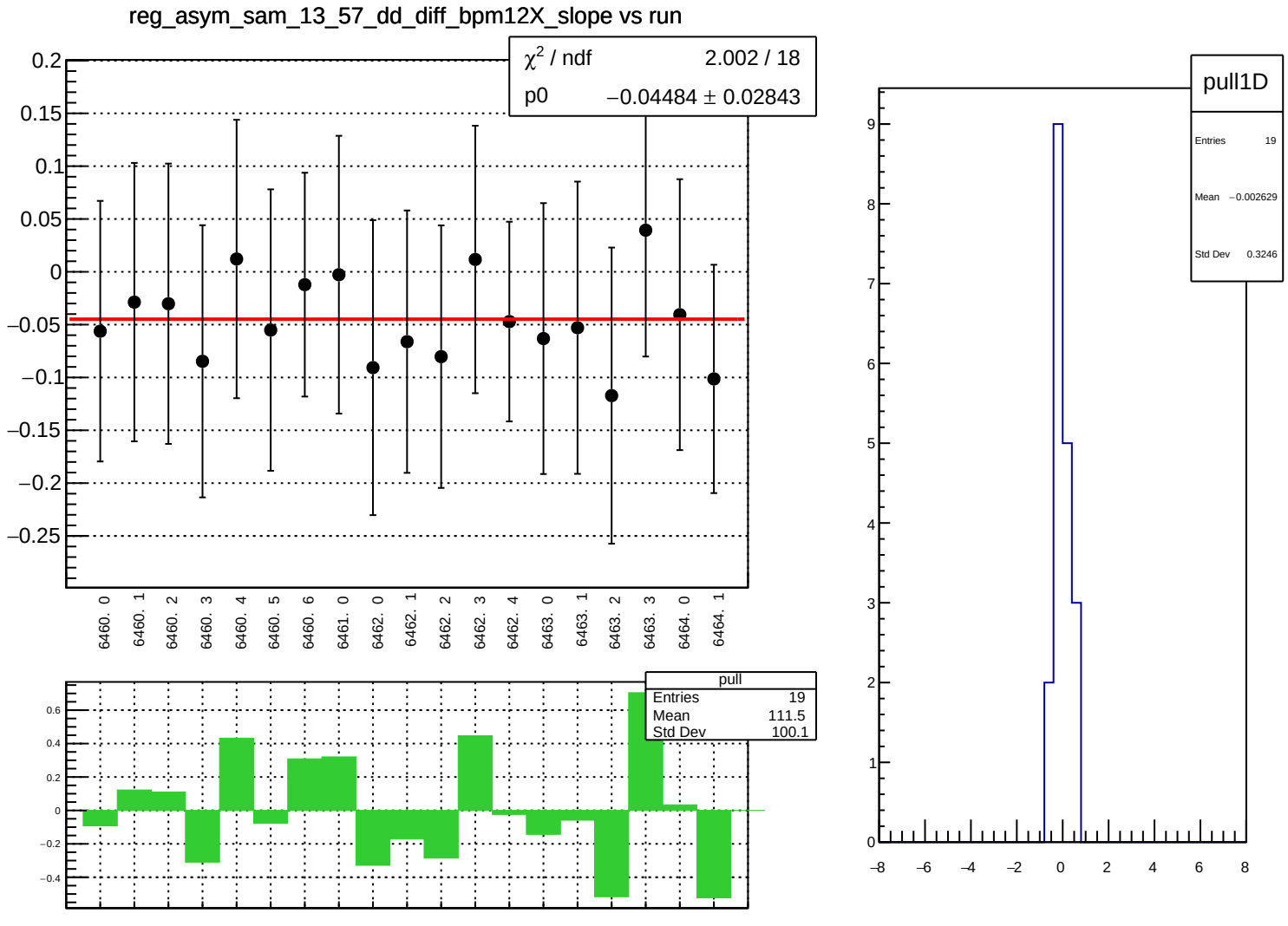
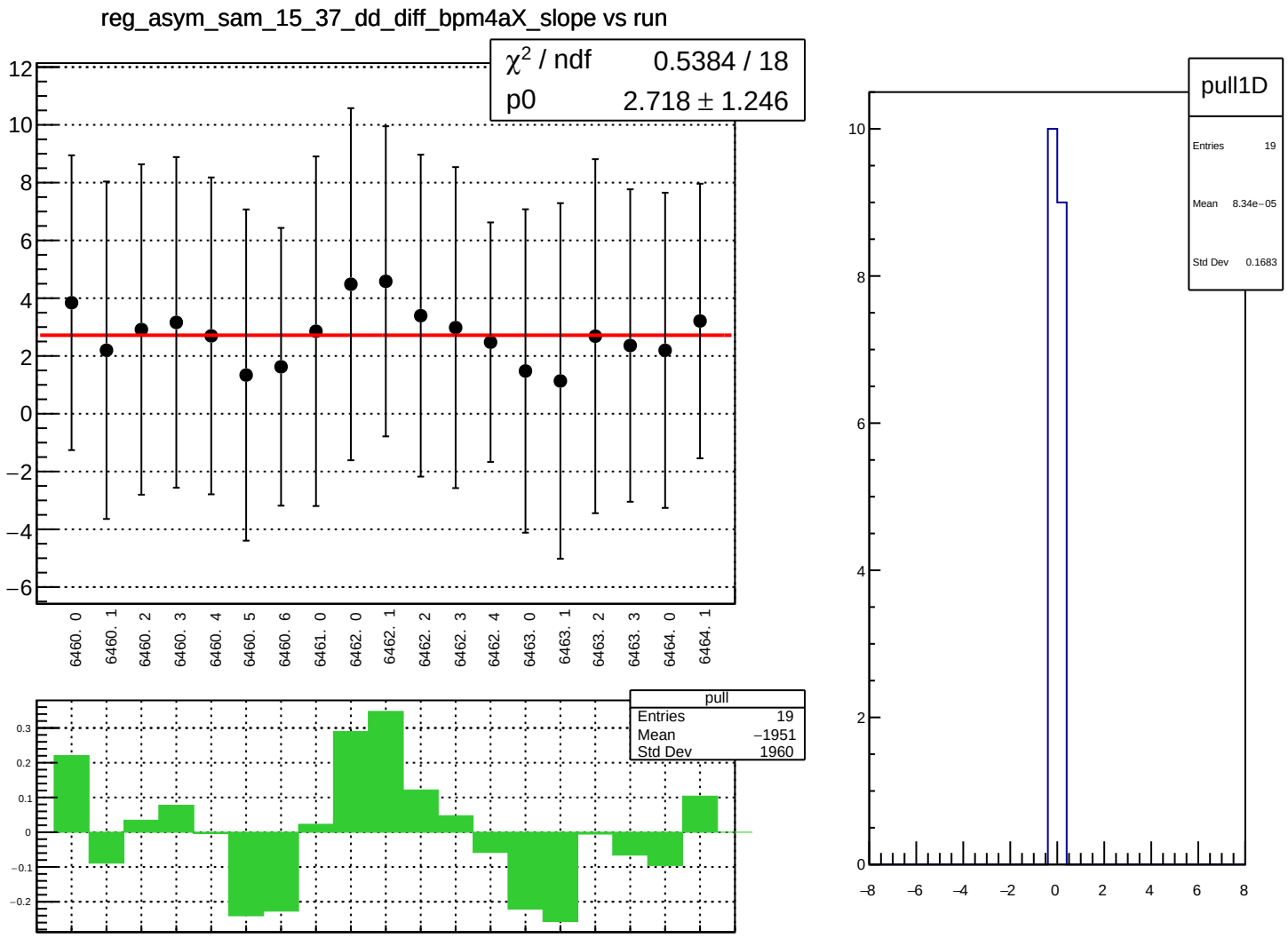
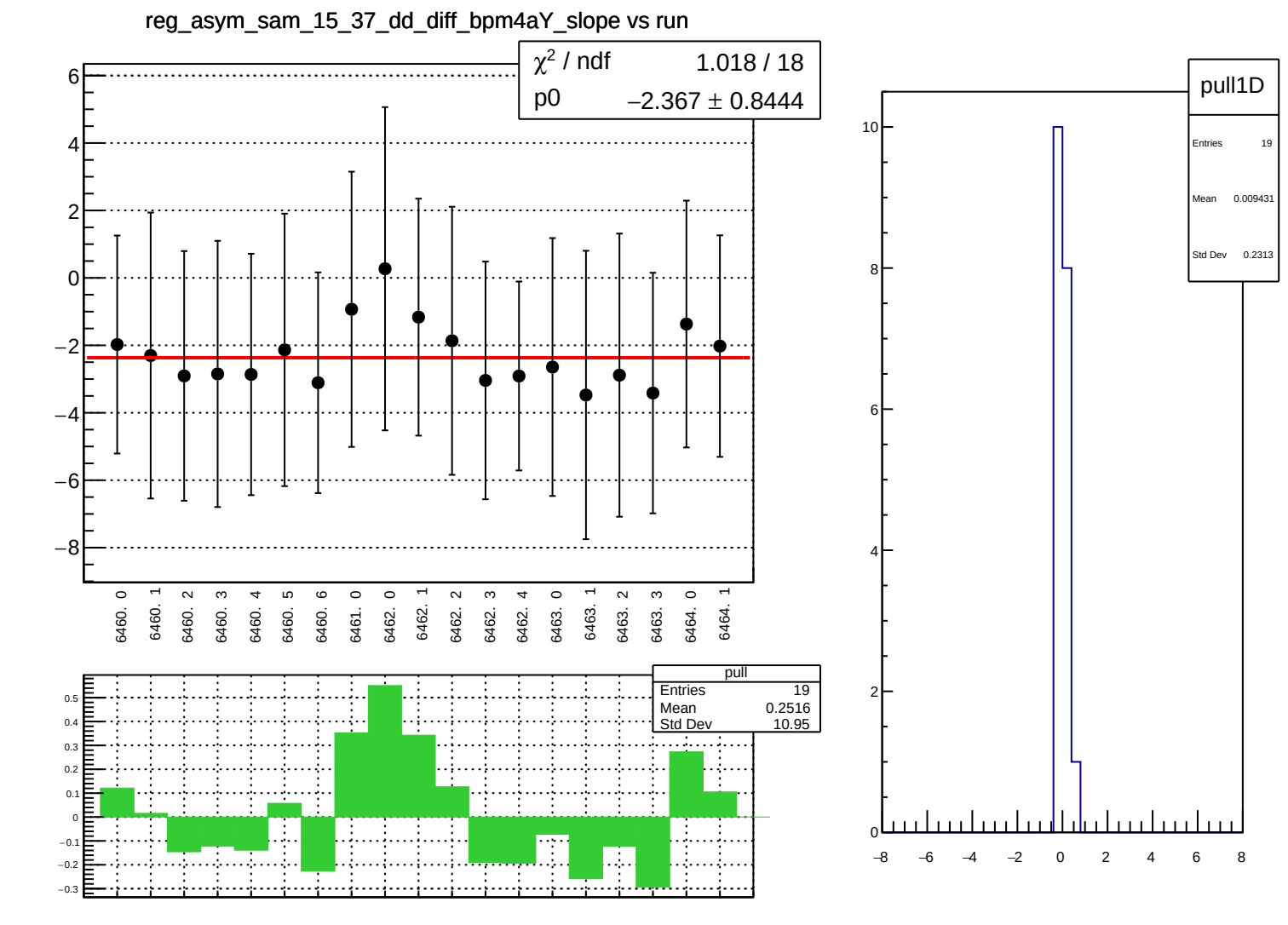
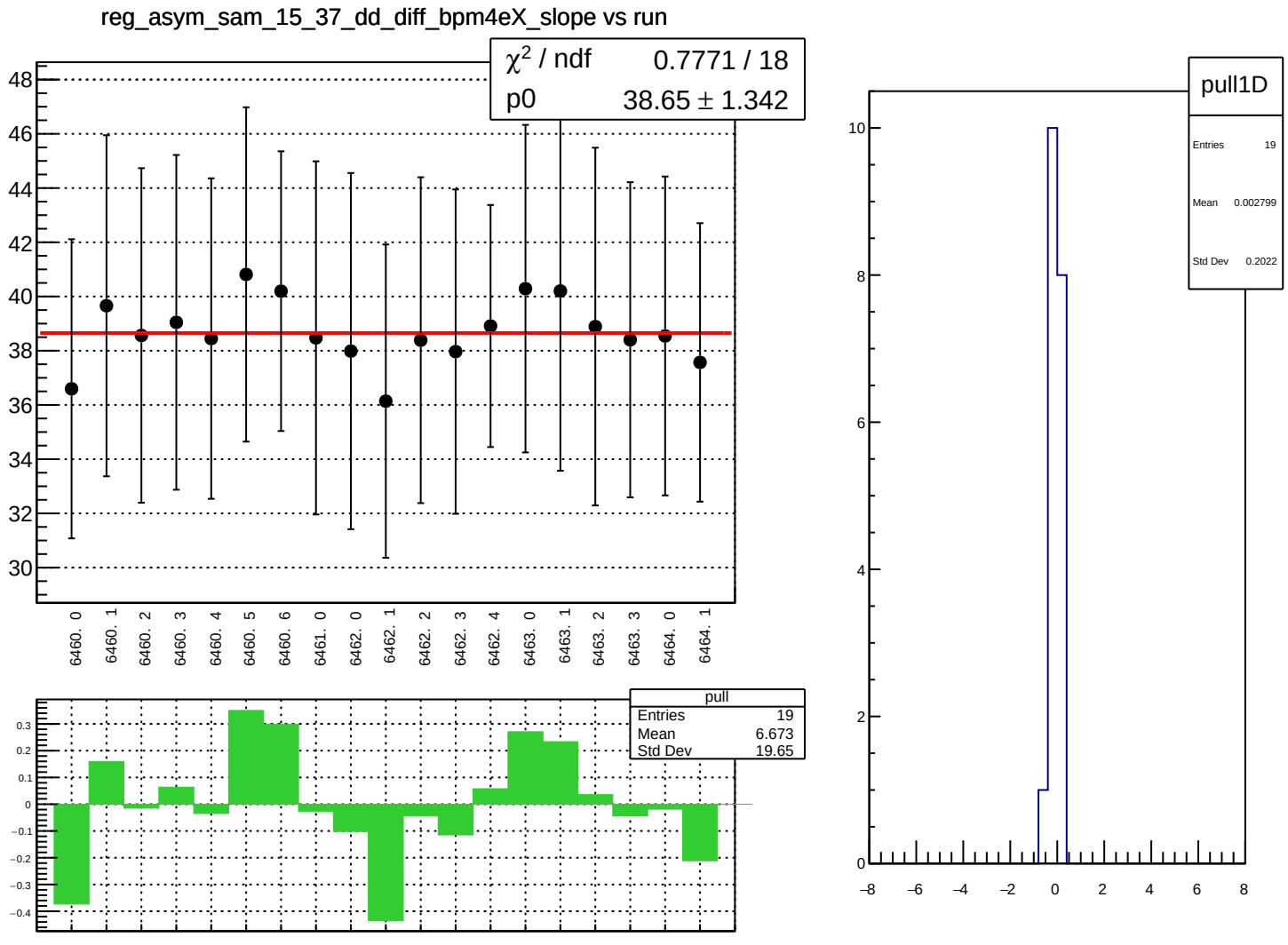
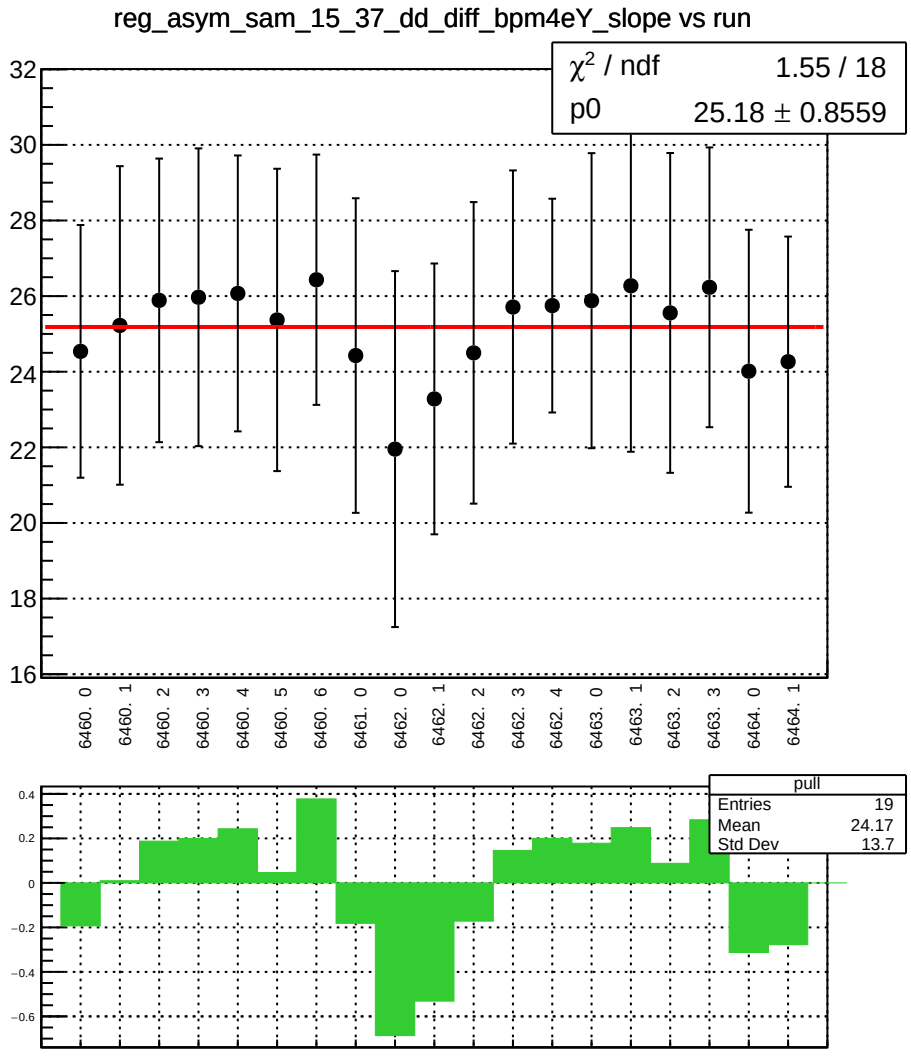
0
2
4
6
8

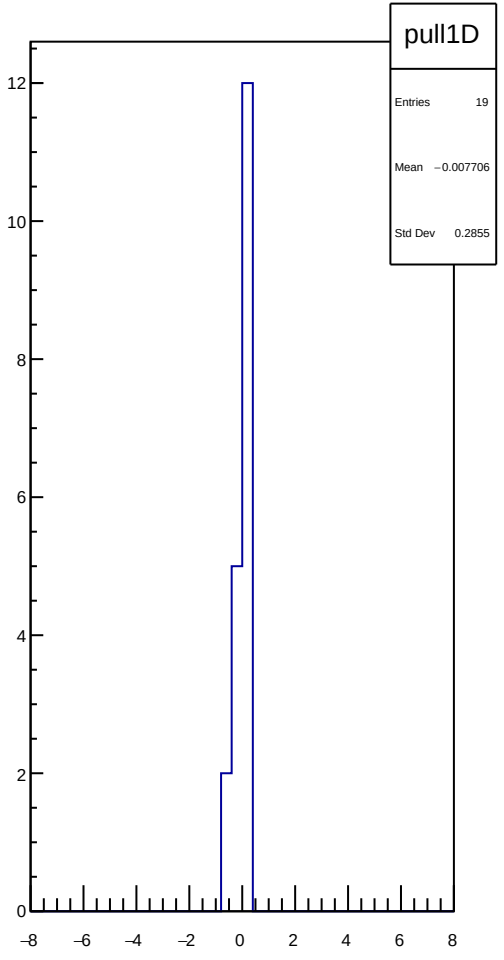

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 2.002 / 18
p0 −0.04484 ± 0.02843
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
−0.25
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 111.5
Std Dev 100.1
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 19
Mean −0.002629
Std Dev 0.3246
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

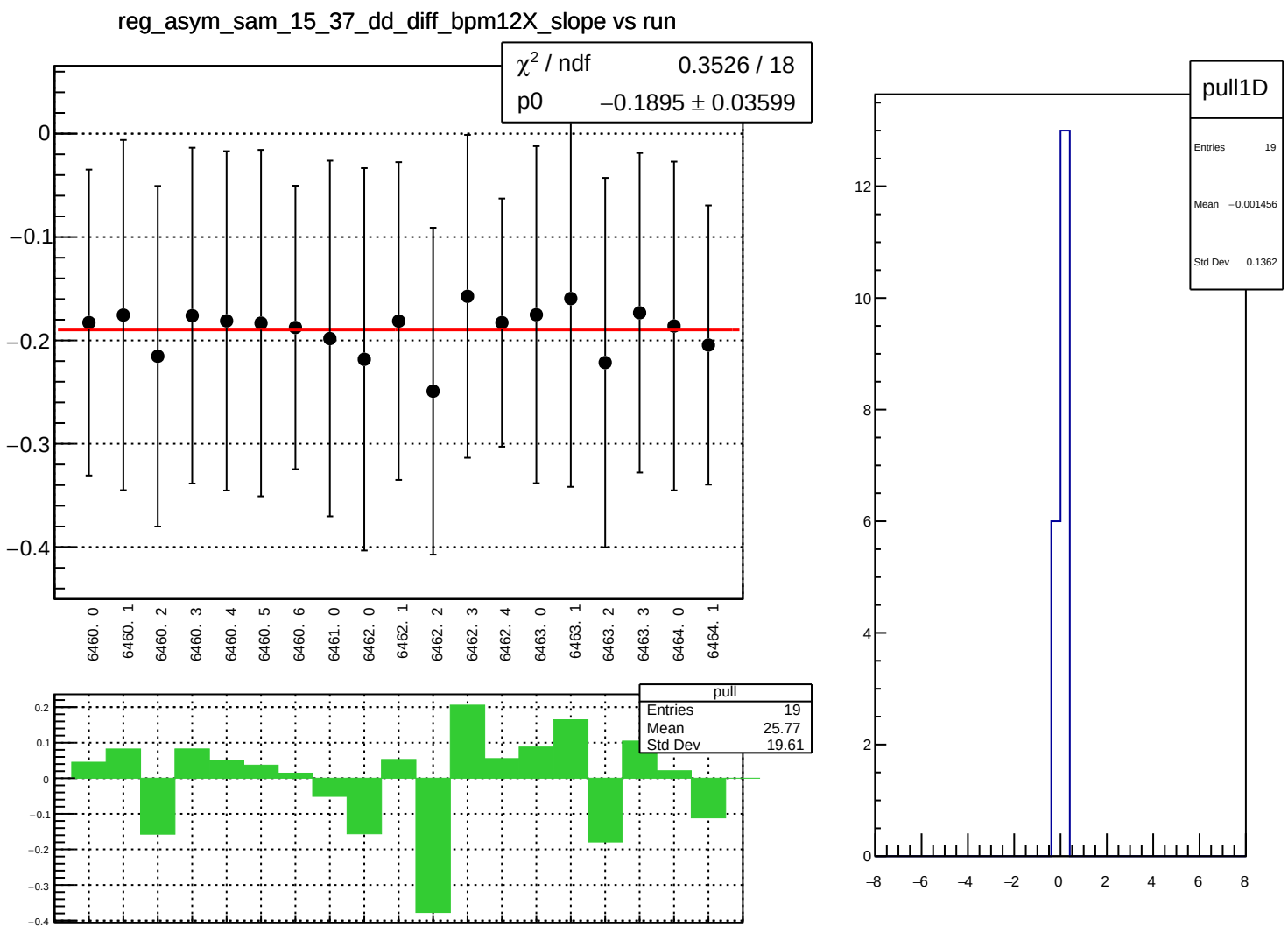

reg_asym_sam_15_37_dd_diff_bpm4aX_slope vs run
χ² / ndf 0.5384 / 18
p0 2.718 ± 1.246
12
10
8
6
4
2
0
−2
−4
−6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −1951
Std Dev 1960
0.3
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 19
Mean 8.34e−05
Std Dev 0.1683
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

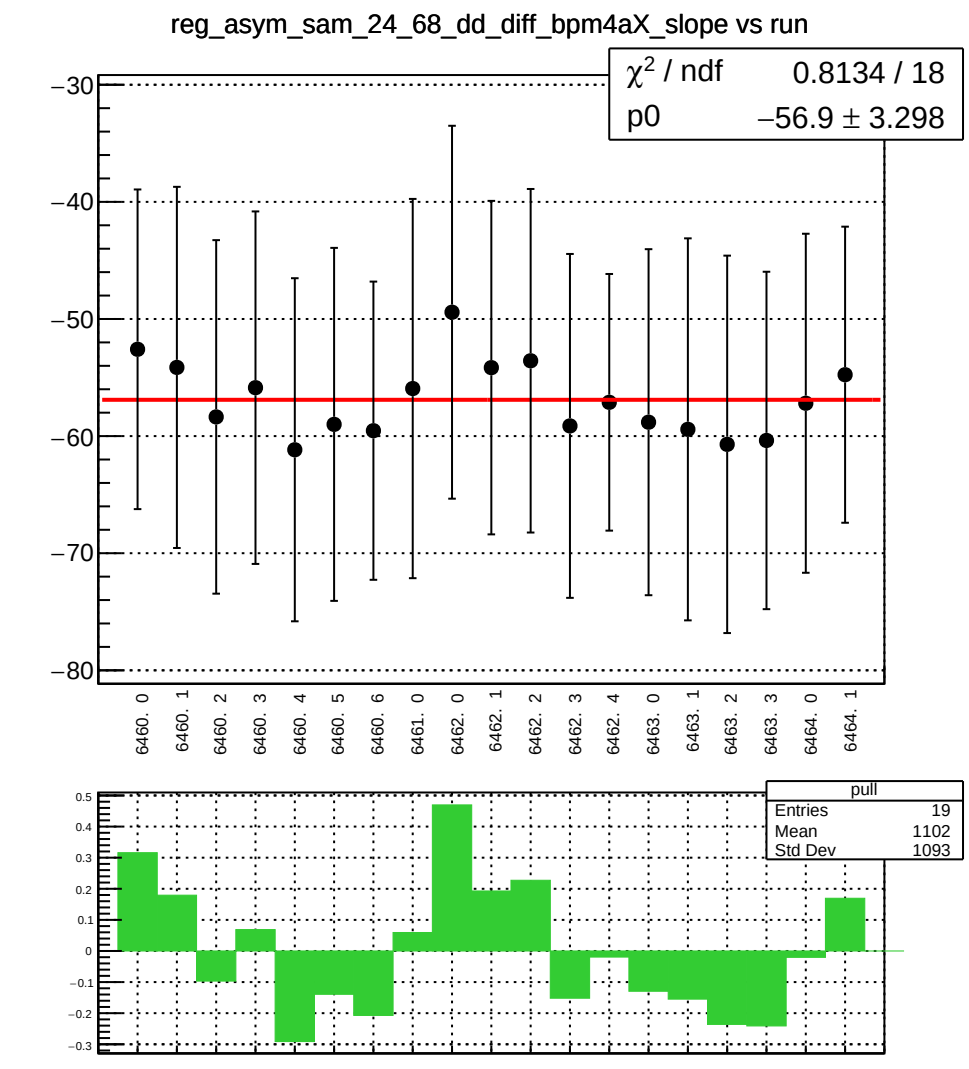

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.018 / 18
p0 −2.367 ± 0.8444
6
4
2
0
−2
−4
−6
−8
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 0.2516
Std Dev 10.95
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 19
Mean 0.009431
Std Dev 0.2313
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

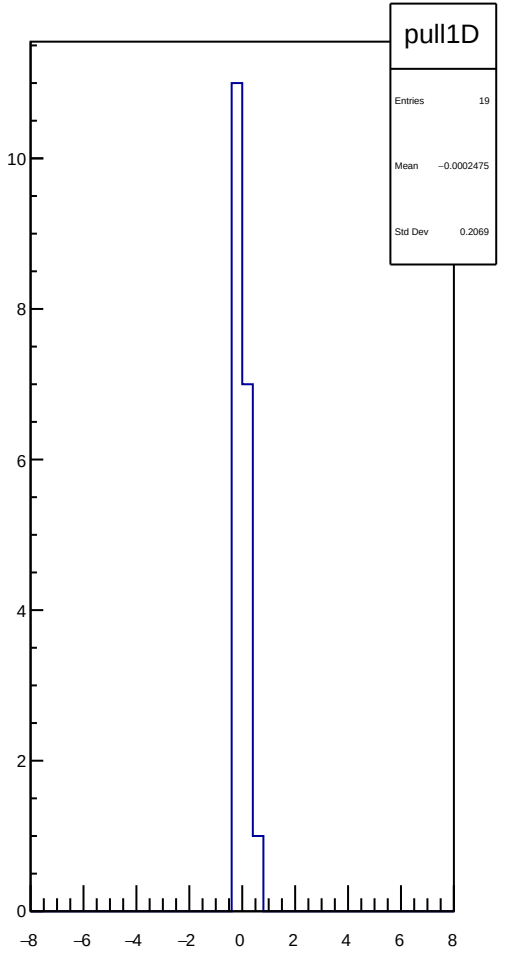

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.7771 / 18
p0 38.65 ± 1.342
48
46
44
42
40
38
36
34
32
30
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 6.673
Std Dev 19.65
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 19
Mean 0.002799
Std Dev 0.2022
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

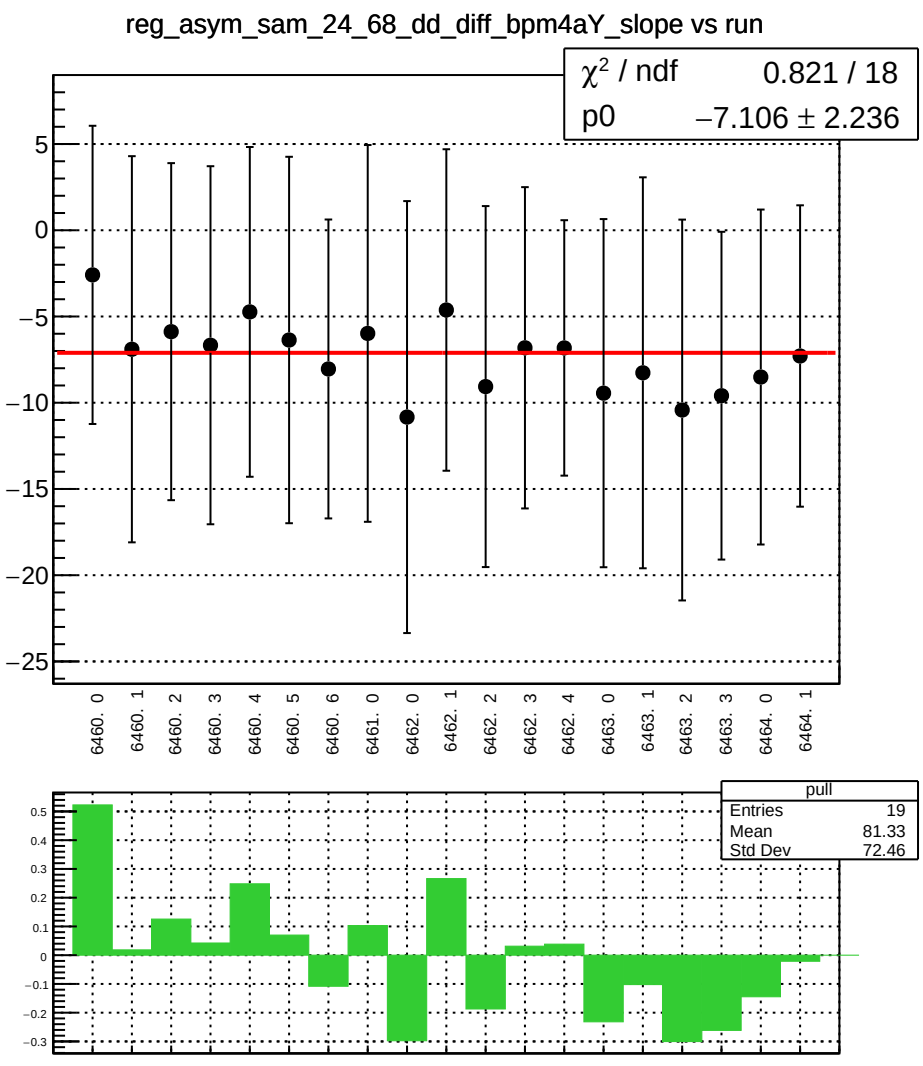

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.55 / 18
p0 25.18 ± 0.8559
32
30
28
26
24
22
20
18
16
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 24.17
Std Dev 13.7
0.4
0.2
0
−0.2
−0.4
−0.6

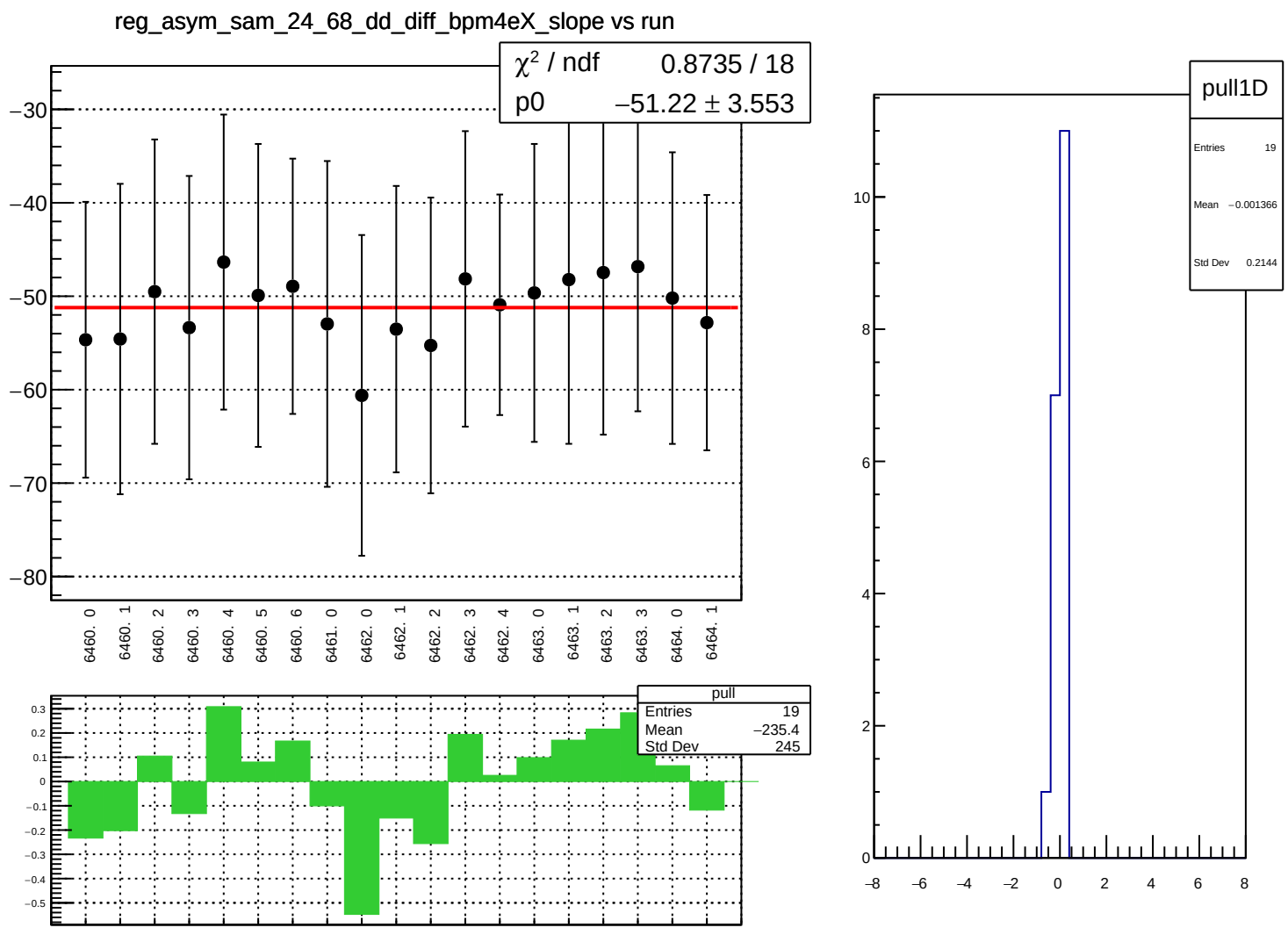

pull1D
Entries 19
Mean −0.007706
Std Dev 0.2855
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

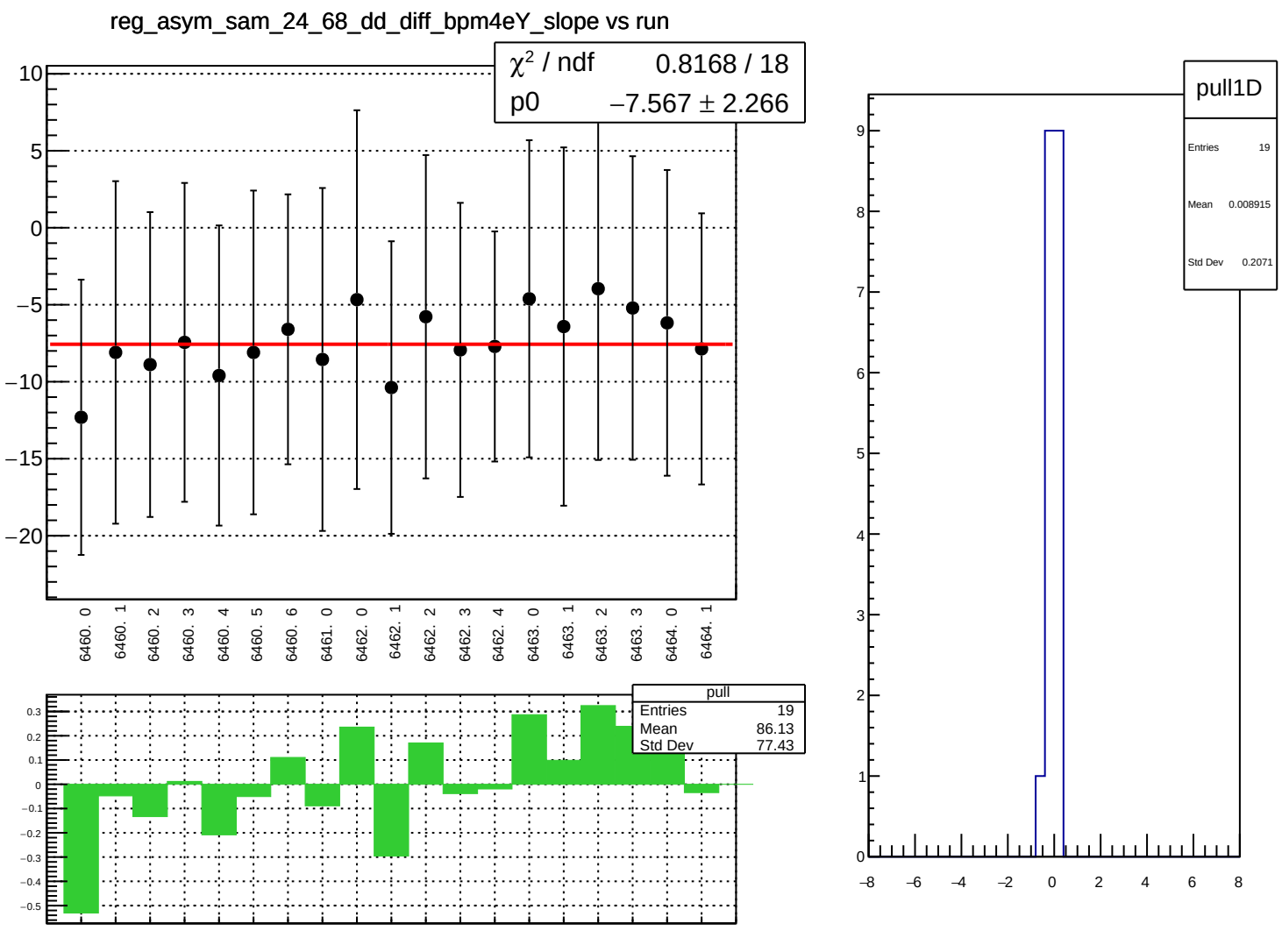

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 0.3526 / 18
p0 −0.1895 ± 0.03599
0
−0.1
−0.2
−0.3
−0.4
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 25.77
Std Dev 19.61
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 19
Mean −0.001456
Std Dev 0.1362
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

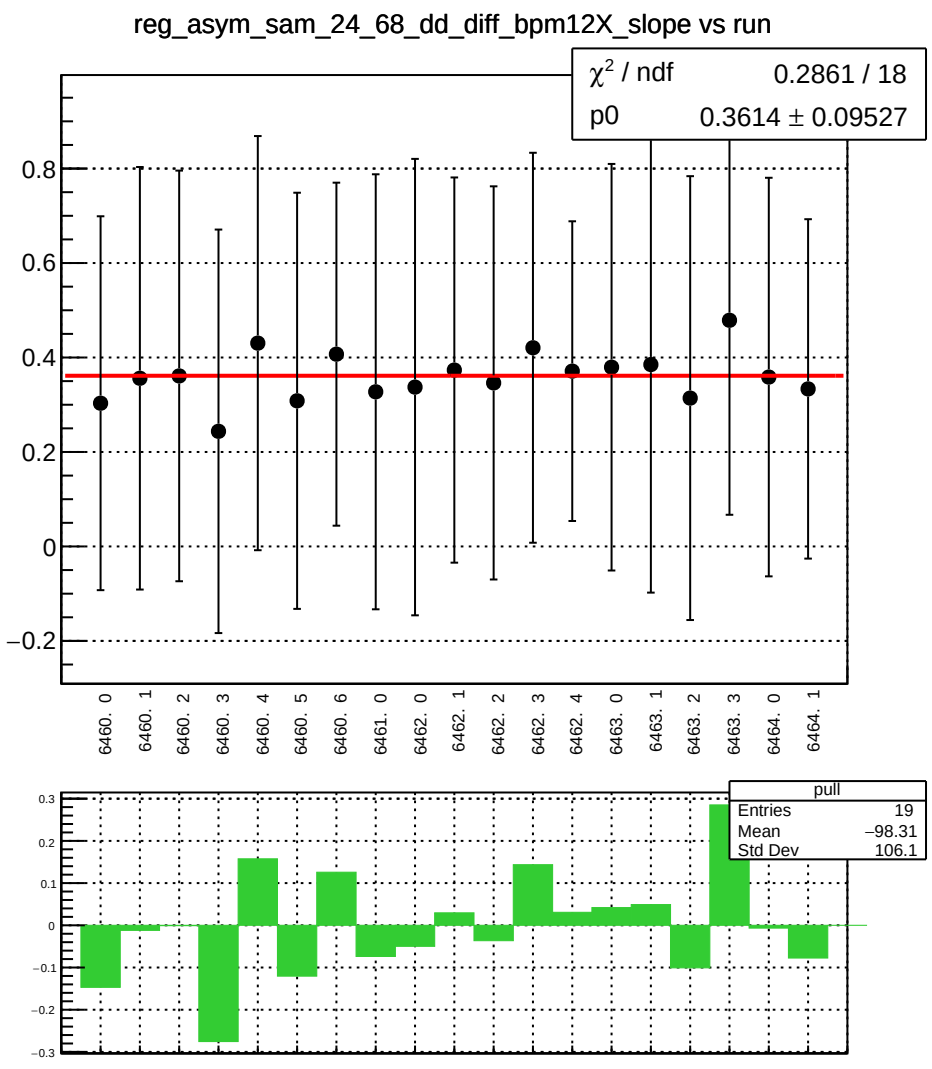

reg_asym_sam_24_68_dd_diff_bpm4aX_slope vs run
χ² / ndf 0.8134 / 18
p0 −56.9 ± 3.298
−30
−40
−50
−60
−70
−80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 1102
Std Dev 1093
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

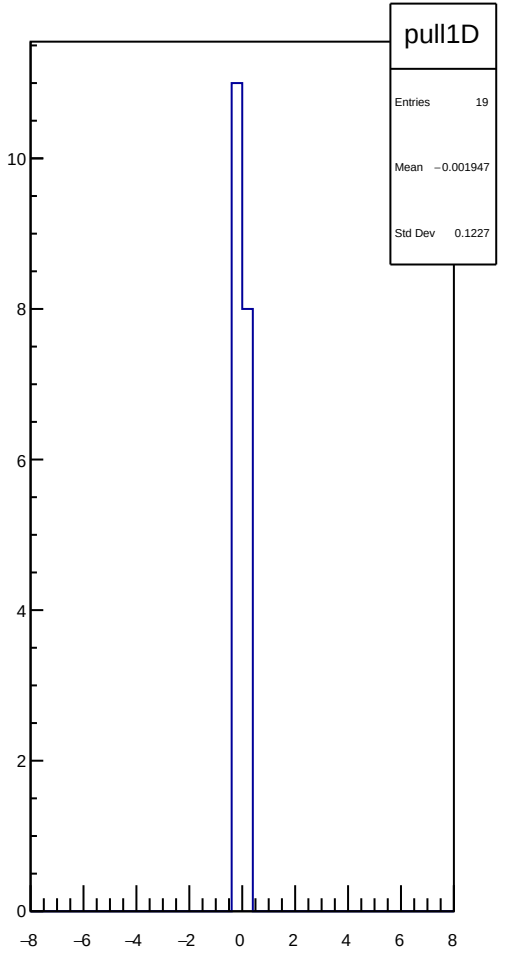

pull1D
Entries 19
Mean −0.0002475
Std Dev 0.2069
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

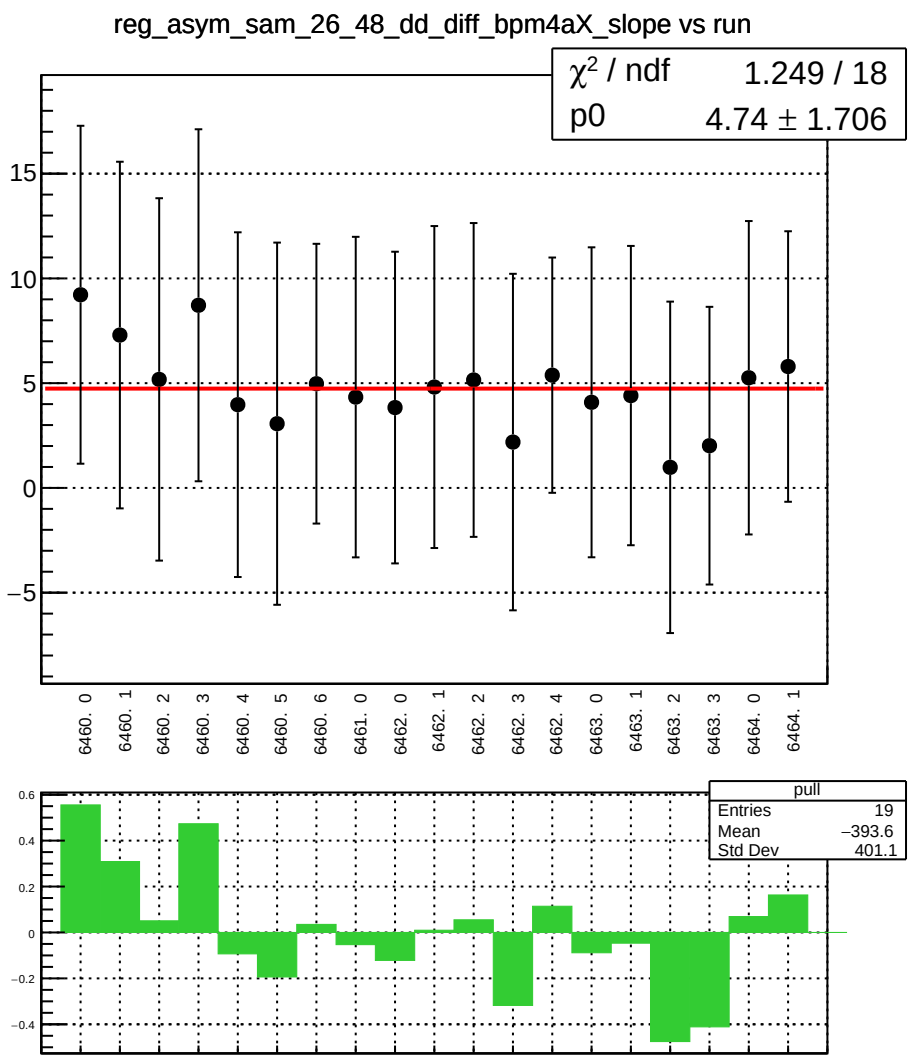

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.821 / 18
p0 −7.106 ± 2.236
5
0
−5
−10
−15
−20
−25
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 81.33
Std Dev 72.46
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 19
Mean −0.009904
Std Dev 0.2076
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

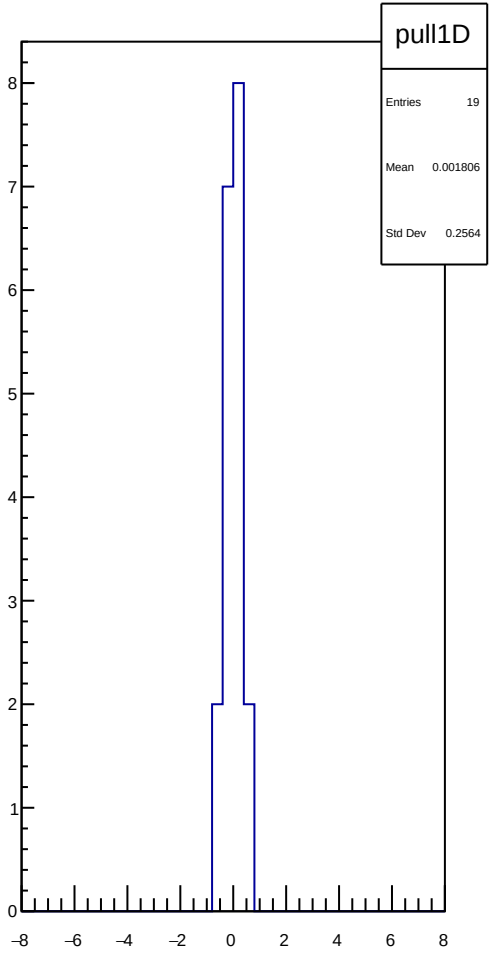

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.8735 / 18
p0 −51.22 ± 3.553
−30
−40
−50
−60
−70
−80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −235.4
Std Dev 245
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
pull1D
Entries 19
Mean −0.001366
Std Dev 0.2144
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

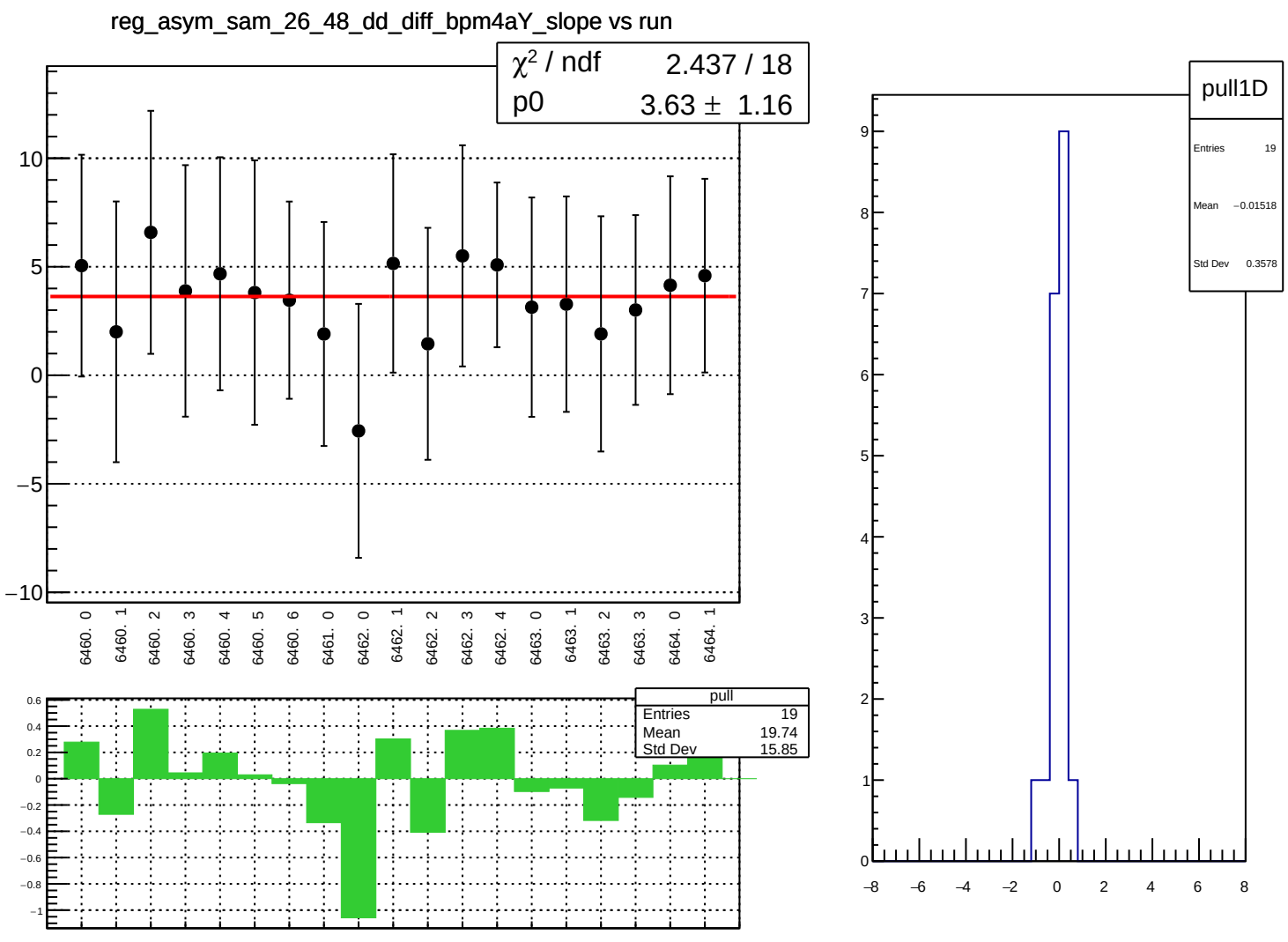

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.8168 / 18
p0 −7.567 ± 2.266
10
5
0
−5
−10
−15
−20
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 86.13
Std Dev 77.43
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
pull1D
Entries 19
Mean 0.008915
Std Dev 0.2071
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

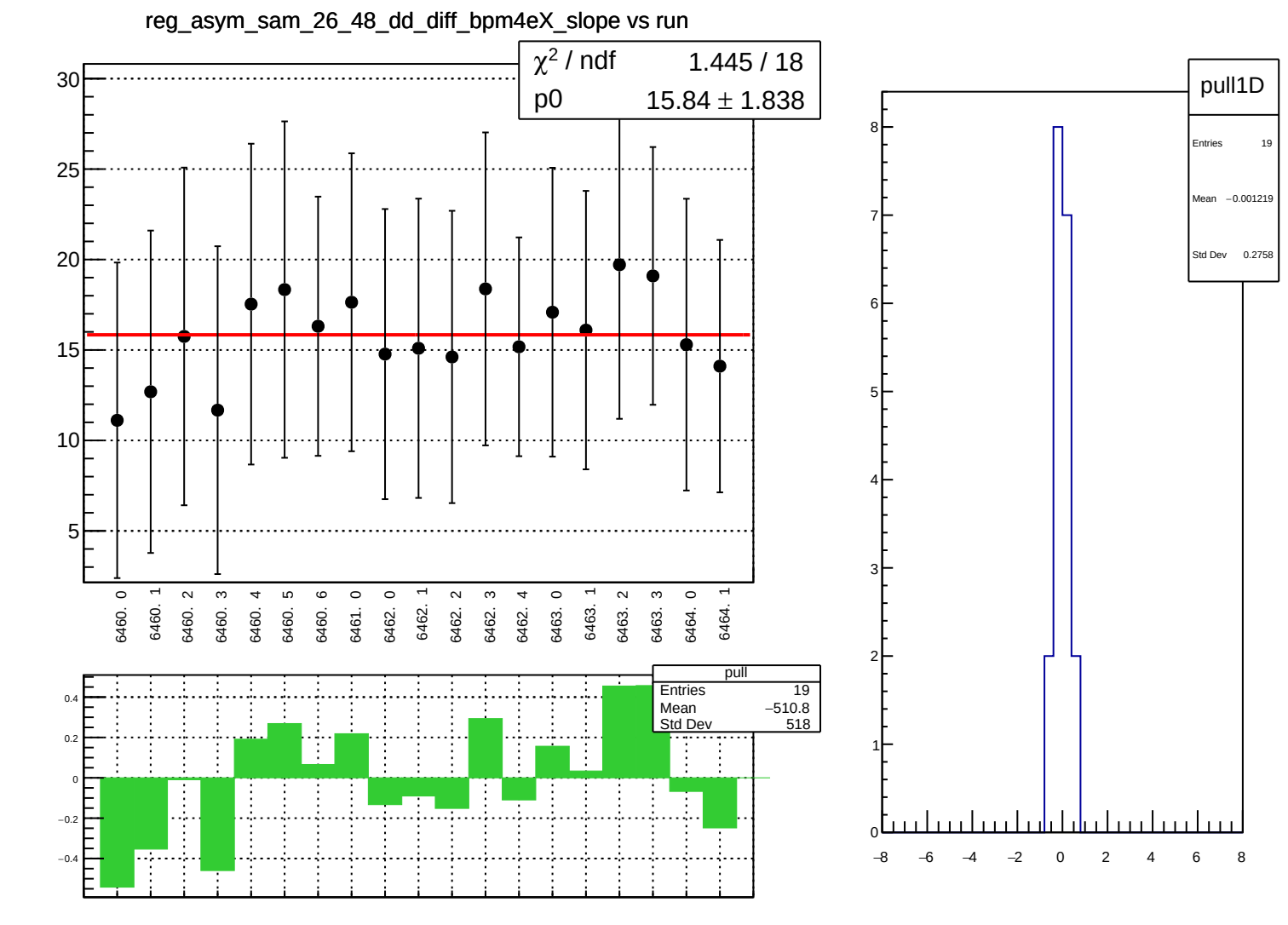

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 0.2861 / 18
p0 0.3614 ± 0.09527
0.8
0.6
0.4
0.2
0
−0.2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −98.31
Std Dev 106.1
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

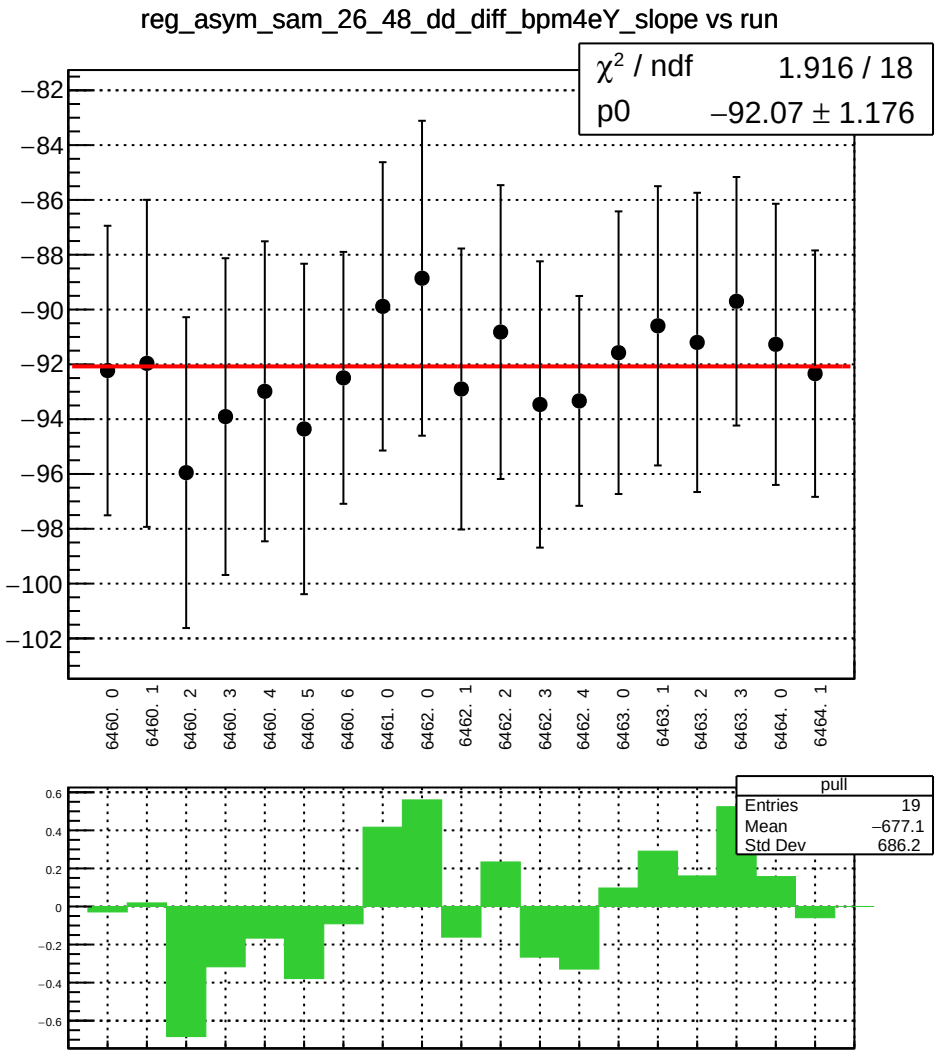

pull1D
Entries 19
Mean −0.001947
Std Dev 0.1227
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

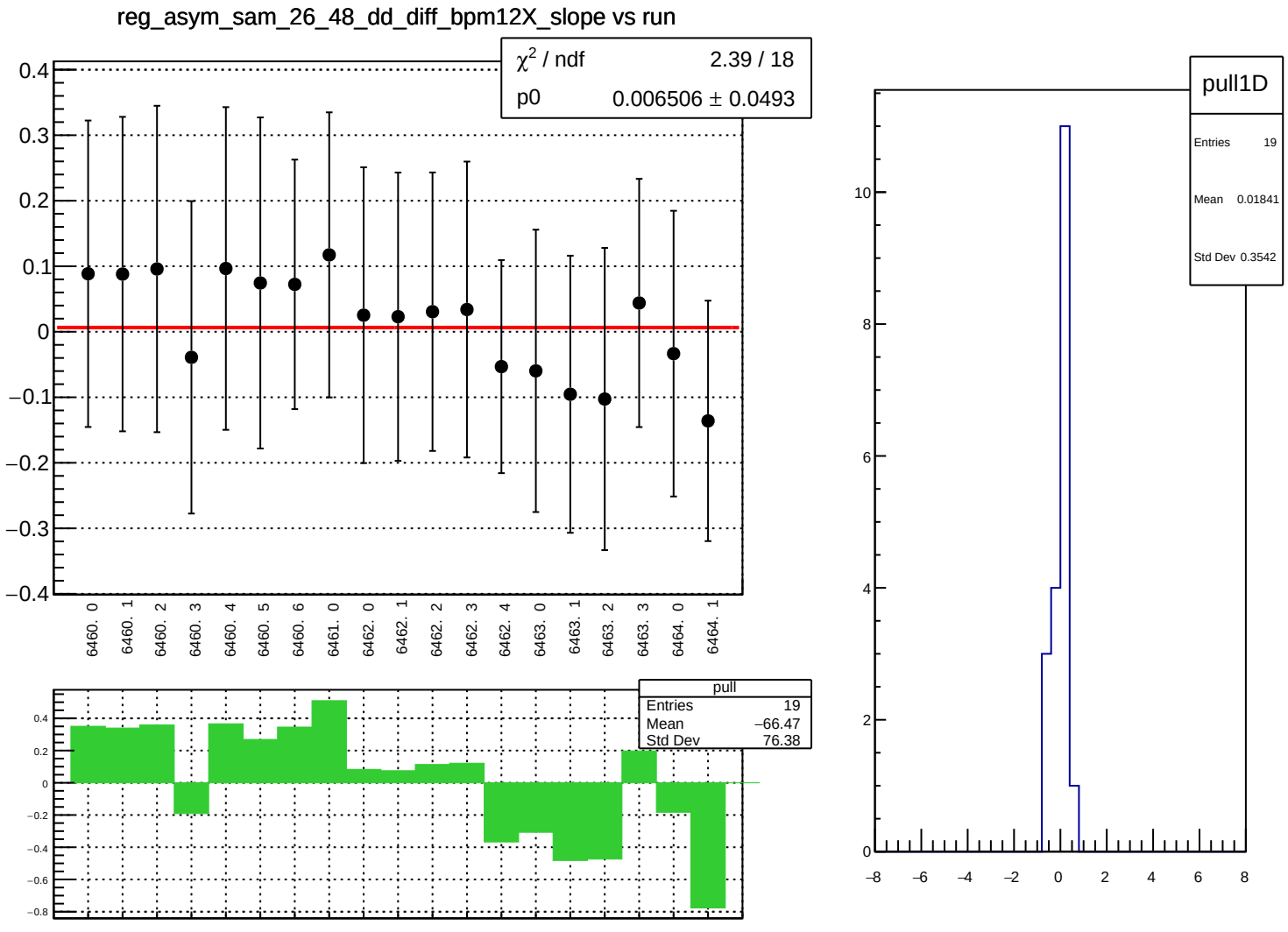

reg_asym_sam_26_48_dd_diff_bpm4aX_slope vs run
χ² / ndf 1.249 / 18
p0 4.74 ± 1.706
15
10
5
0
−5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −393.6
Std Dev 401.1
0.6
0.4
0.2
0
−0.2
−0.4

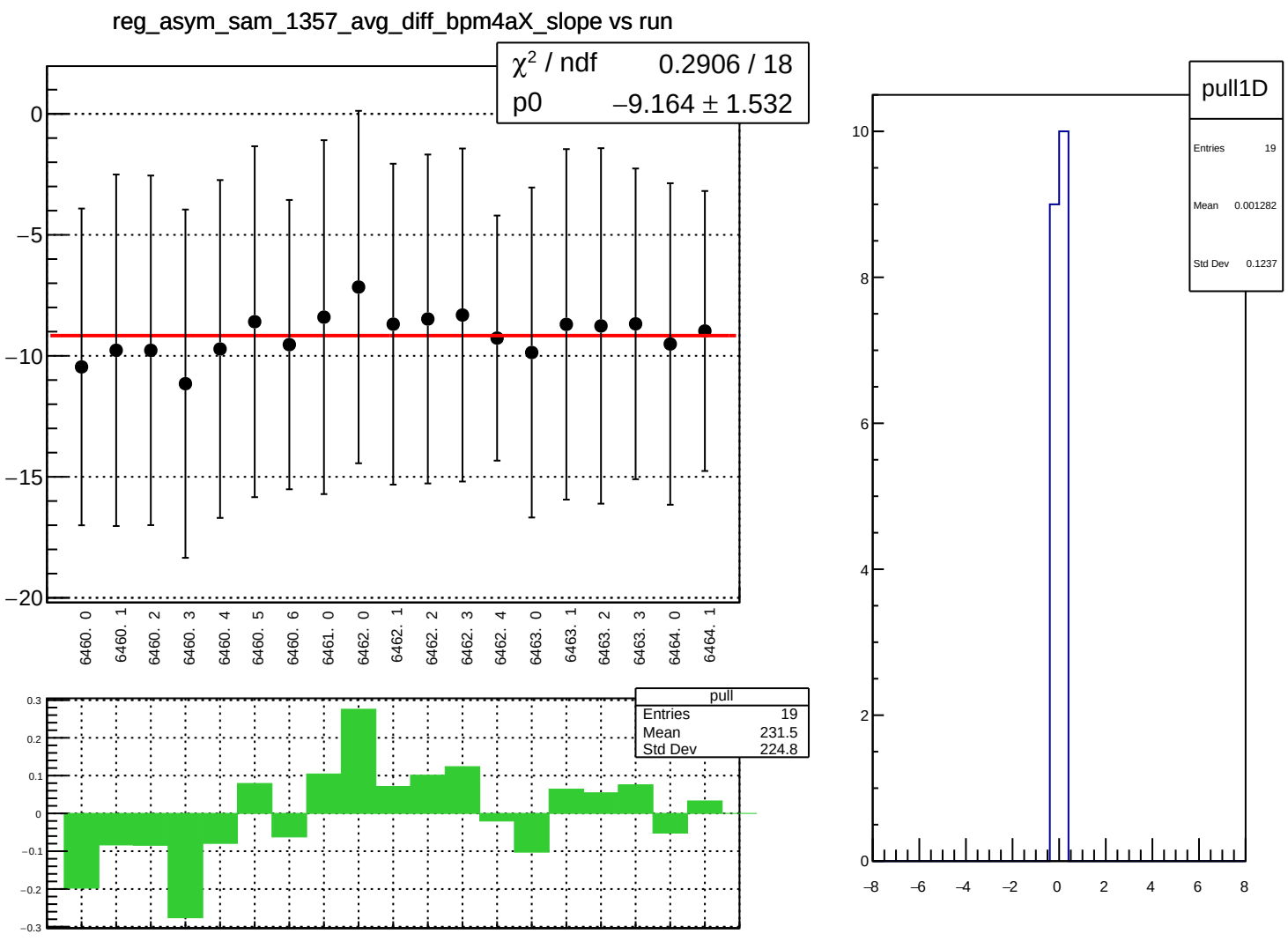

pull1D
Entries 19
Mean 0.001806
Std Dev 0.2564
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

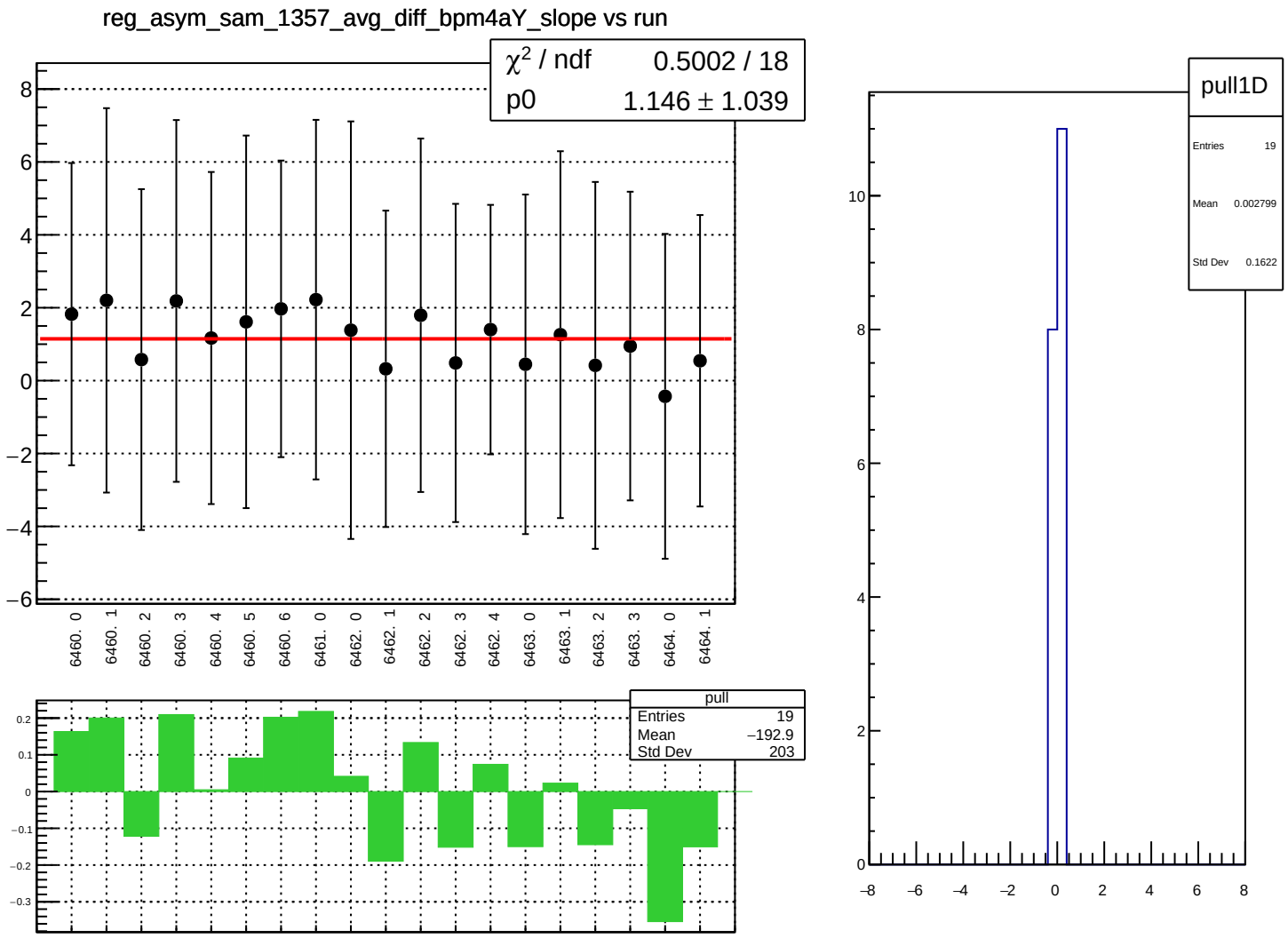

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.437 / 18
p0 3.63 ± 1.16
10
5
0
−5
−10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 19.74
Std Dev 15.85
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 19
Mean −0.01518
Std Dev 0.3578
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

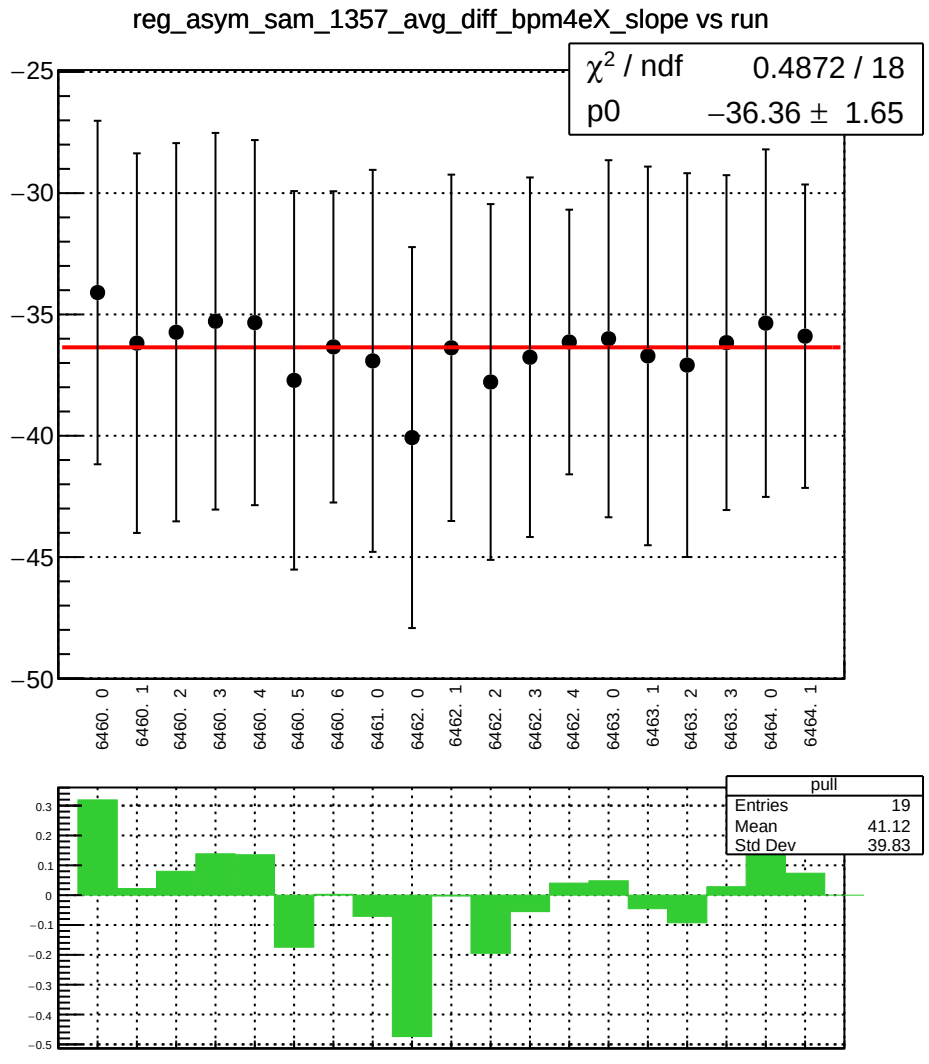

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.445 / 18
p0 15.84 ± 1.838
30
25
20
15
10
5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −510.8
Std Dev 518
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 19
Mean −0.001219
Std Dev 0.2758
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

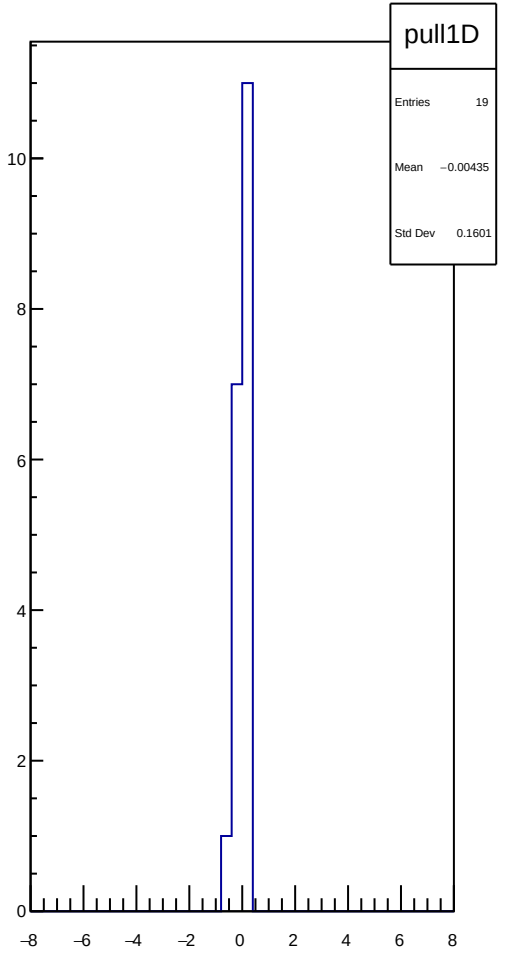

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.916 / 18
p0 −92.07 ± 1.176
−82
−84
−86
−88
−90
−92
−94
−96
−98
−100
−102
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −677.1
Std Dev 686.2
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 19
Mean −0.001068
Std Dev 0.3176
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

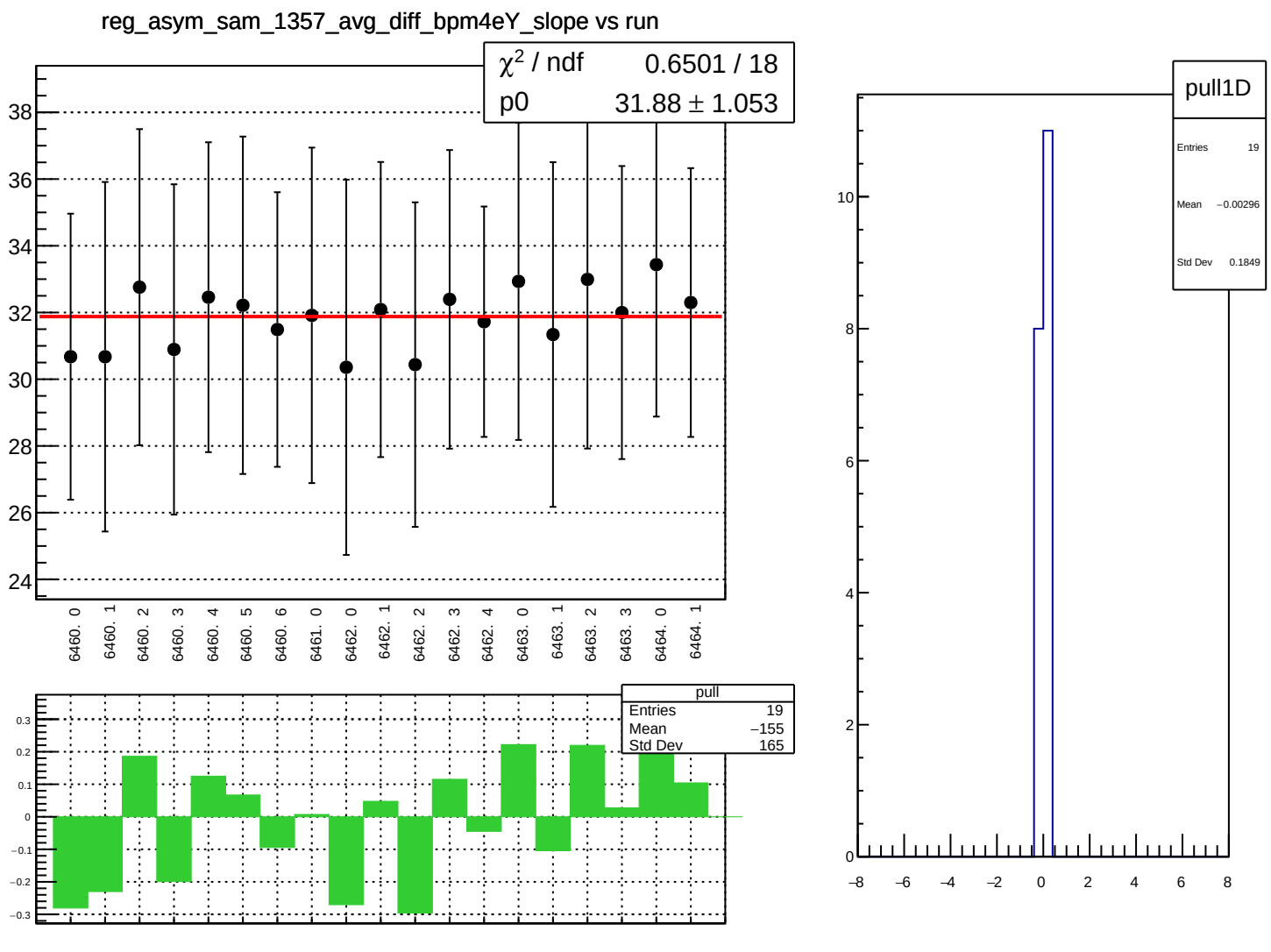

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 2.39 / 18
p0 0.006506 ± 0.0493
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −66.47
Std Dev 76.38
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 19
Mean 0.01841
Std Dev 0.3542
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

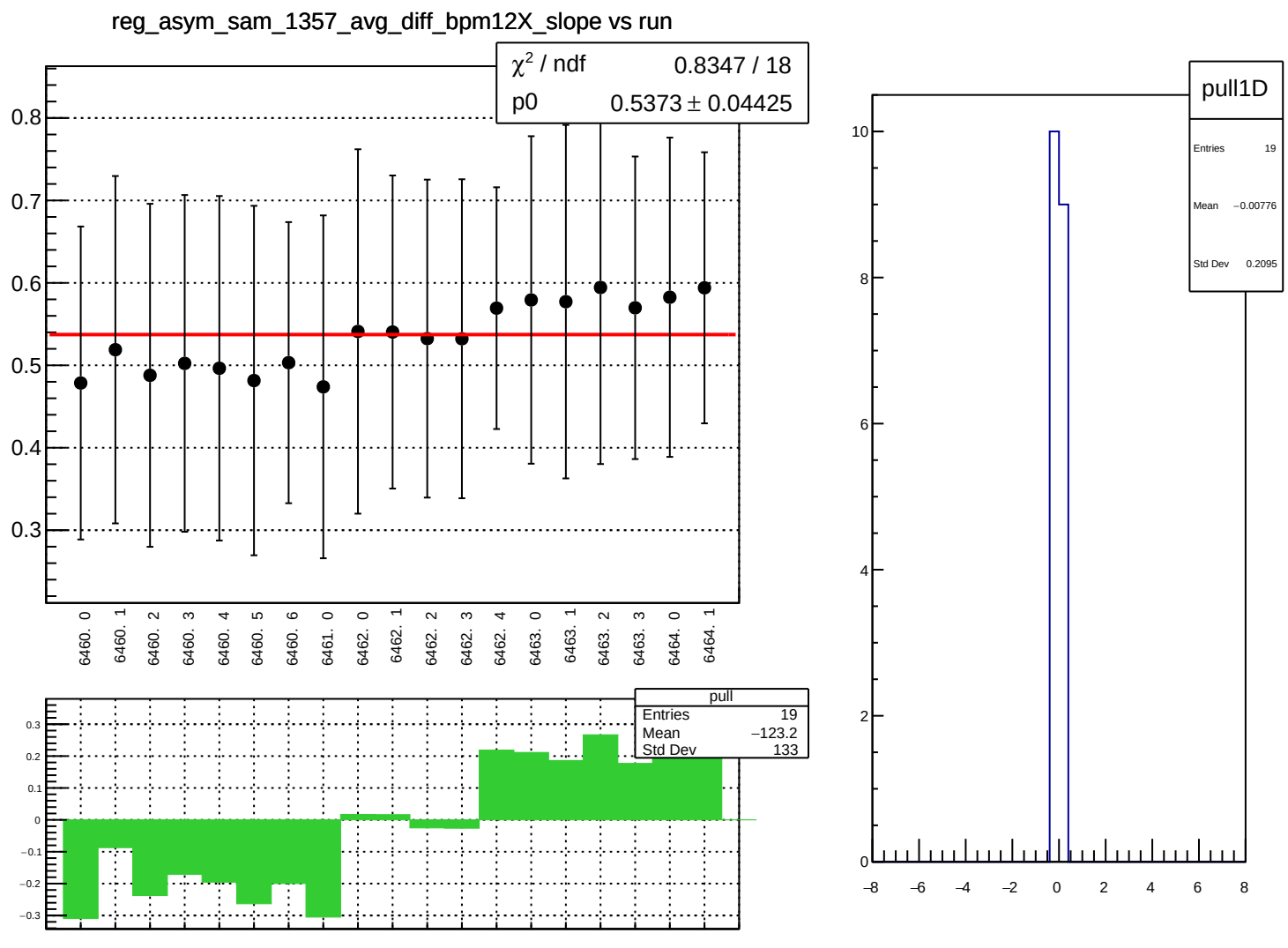

reg_asym_sam_1357_avg_diff_bpm4aX_slope vs run
χ² / ndf 0.2906 / 18
p0 −9.164 ± 1.532
0
−5
−10
−15
−20
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 231.5
Std Dev 224.8
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 19
Mean 0.001282
Std Dev 0.1237
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

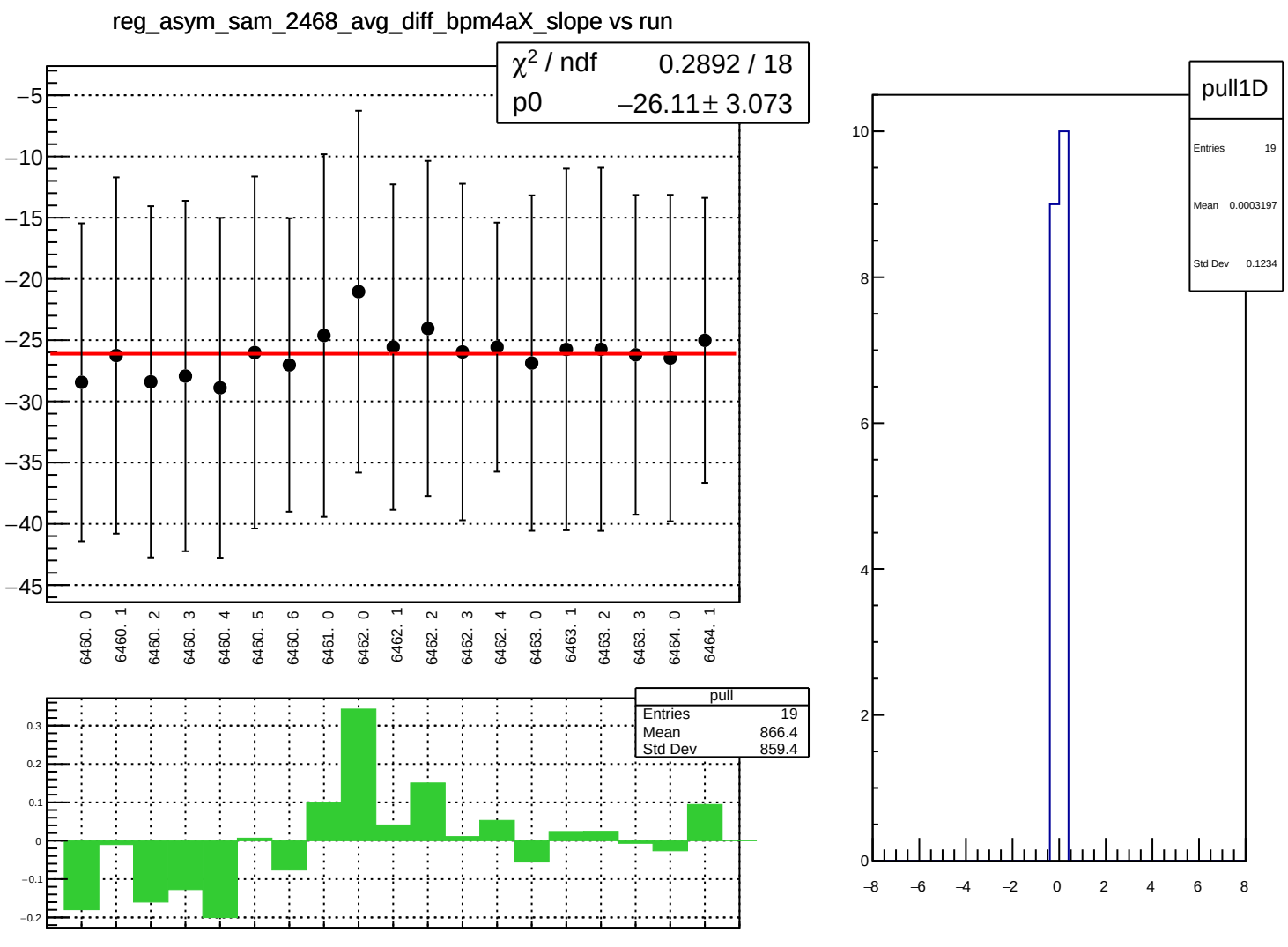

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.5002 / 18
p0 1.146 ± 1.039
8
6
4
2
0
−2
−4
−6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −192.9
Std Dev 203
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 19
Mean 0.002799
Std Dev 0.1622
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

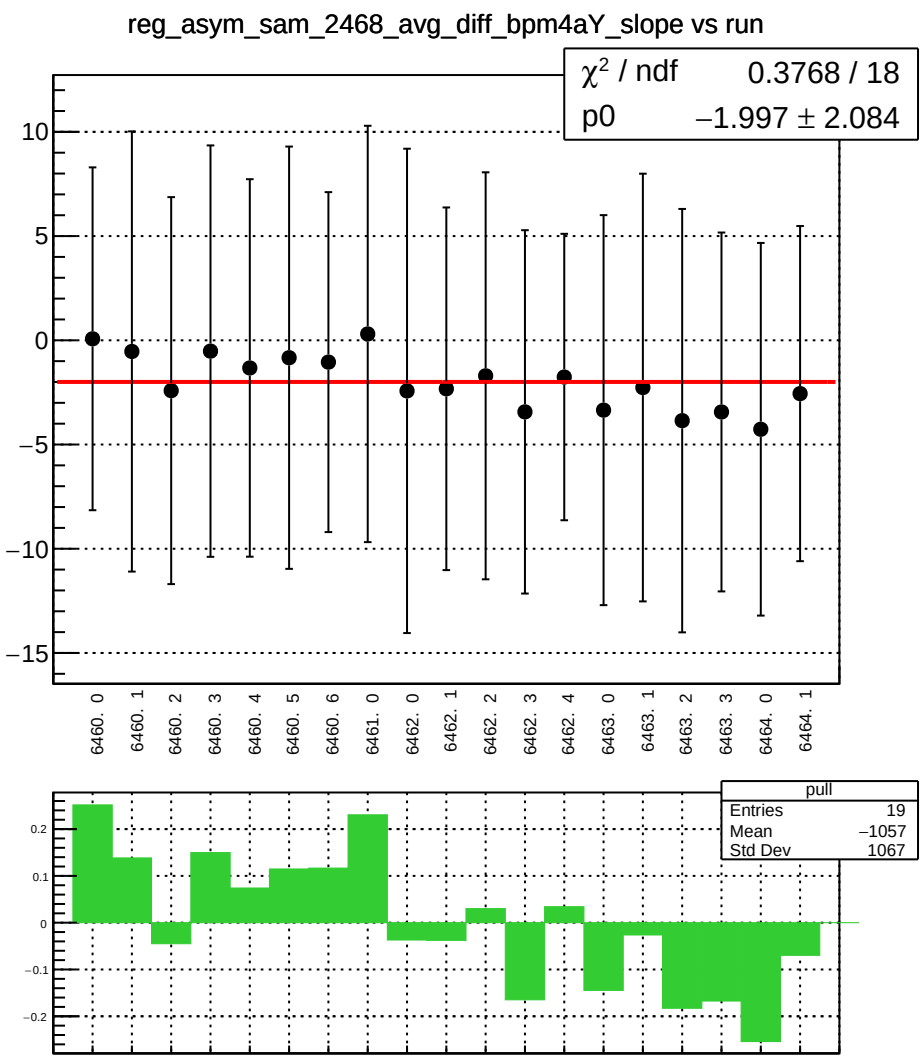

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 0.4872 / 18
p0 −36.36 ± 1.65
−25
−30
−35
−40
−45
−50
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 41.12
Std Dev 39.83
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5

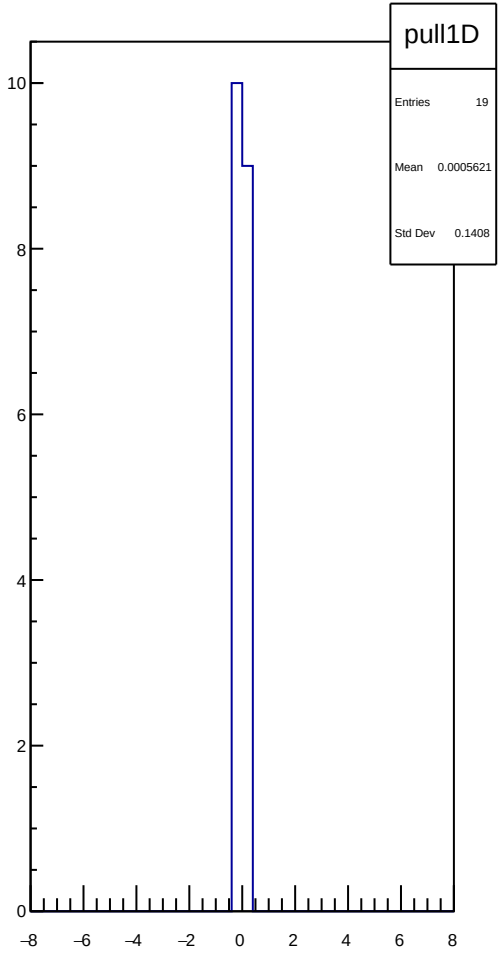

pull1D
Entries 19
Mean −0.00435
Std Dev 0.1601
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

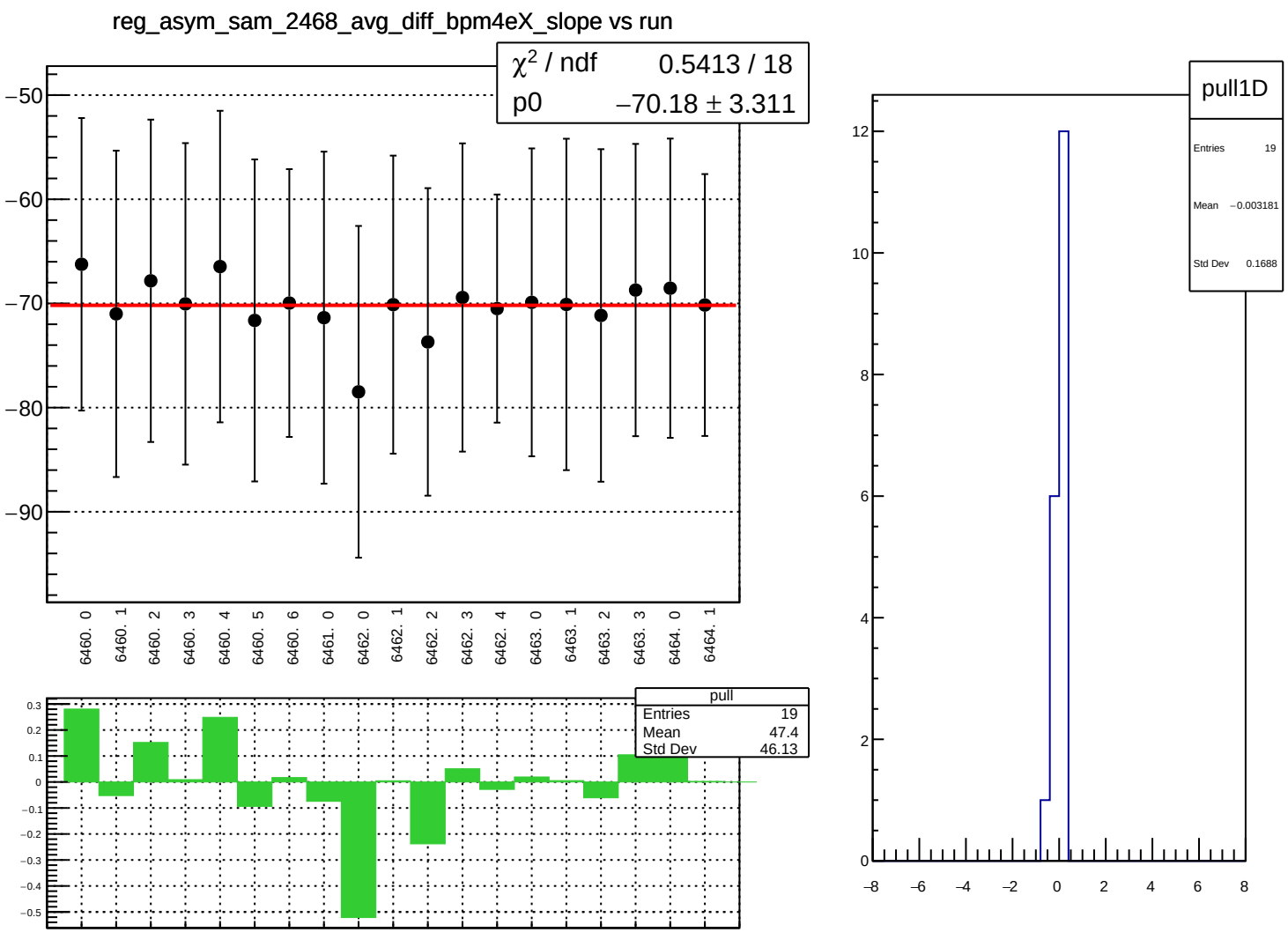

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.6501 / 18
p0 31.88 ± 1.053
38
36
34
32
30
28
26
24
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −155
Std Dev 165
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 19
Mean −0.00296
Std Dev 0.1849
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

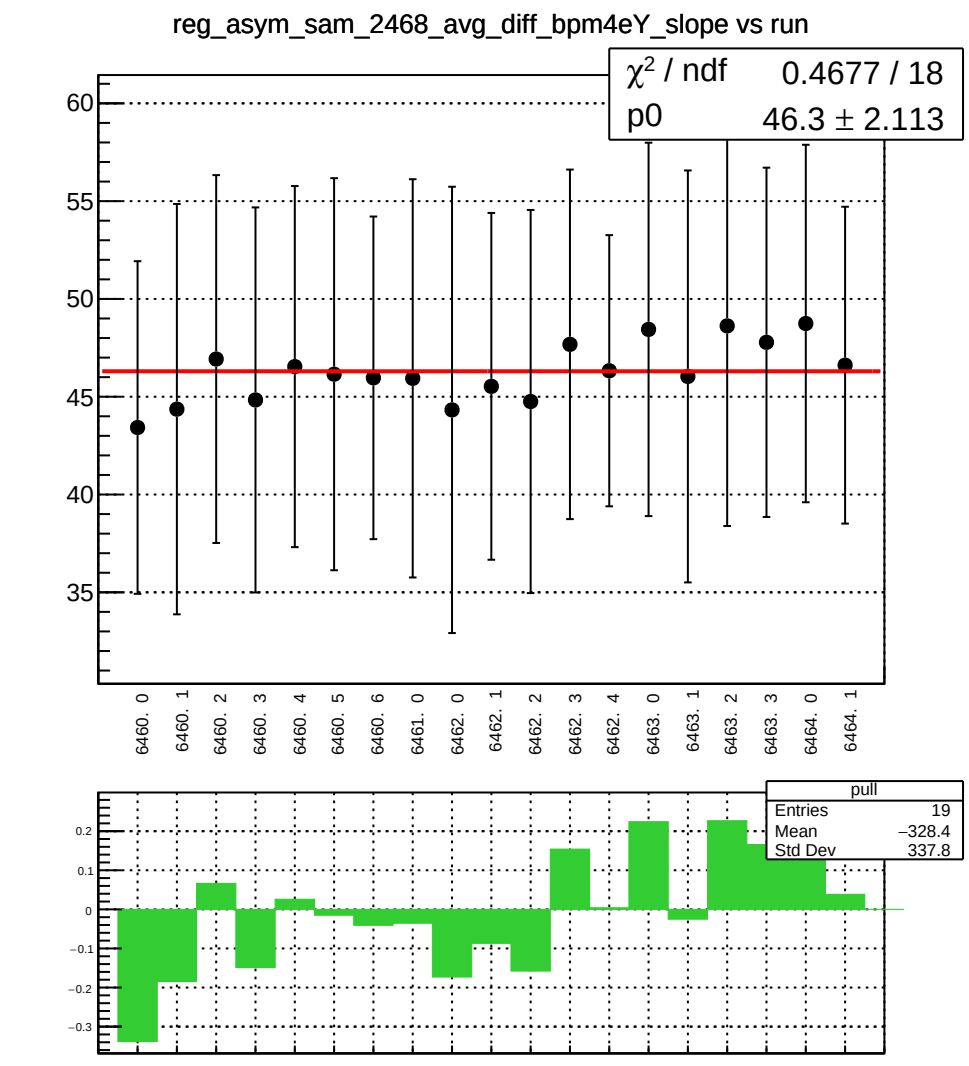

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 0.8347 / 18
p0 0.5373 ± 0.04425
0.8
0.7
0.6
0.5
0.4
0.3
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −123.2
Std Dev 133
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 19
Mean −0.00776
Std Dev 0.2095
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

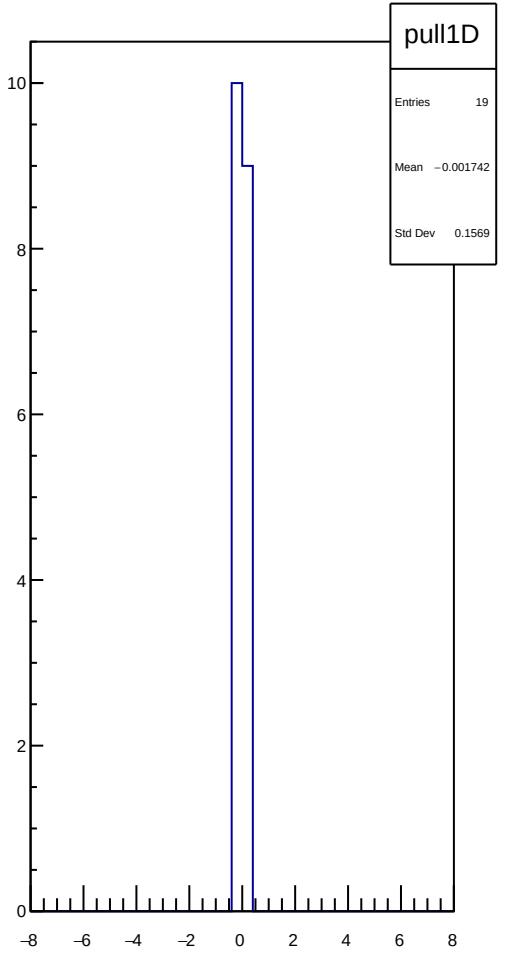

reg_asym_sam_2468_avg_diff_bpm4aX_slope vs run
χ² / ndf 0.2892 / 18
p0 −26.11± 3.073
−5
−10
−15
−20
−25
−30
−35
−40
−45
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 866.4
Std Dev 859.4
0.3
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 19
Mean 0.0003197
Std Dev 0.1234
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

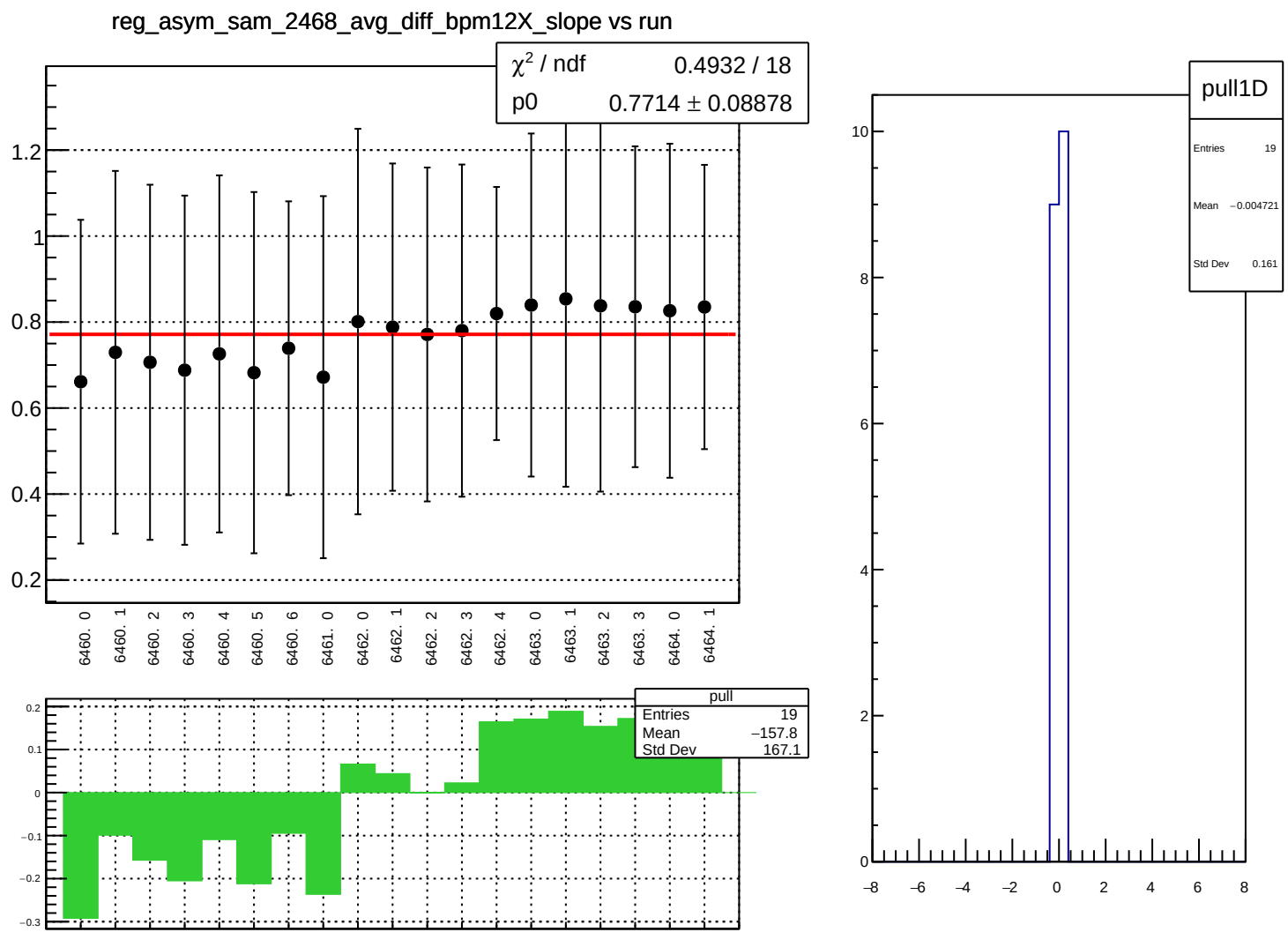

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.3768 / 18
p0 −1.997 ± 2.084
10
5
0
−5
−10
−15
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −1057
Std Dev 1067
0.2
0.1
0
−0.1
−0.2

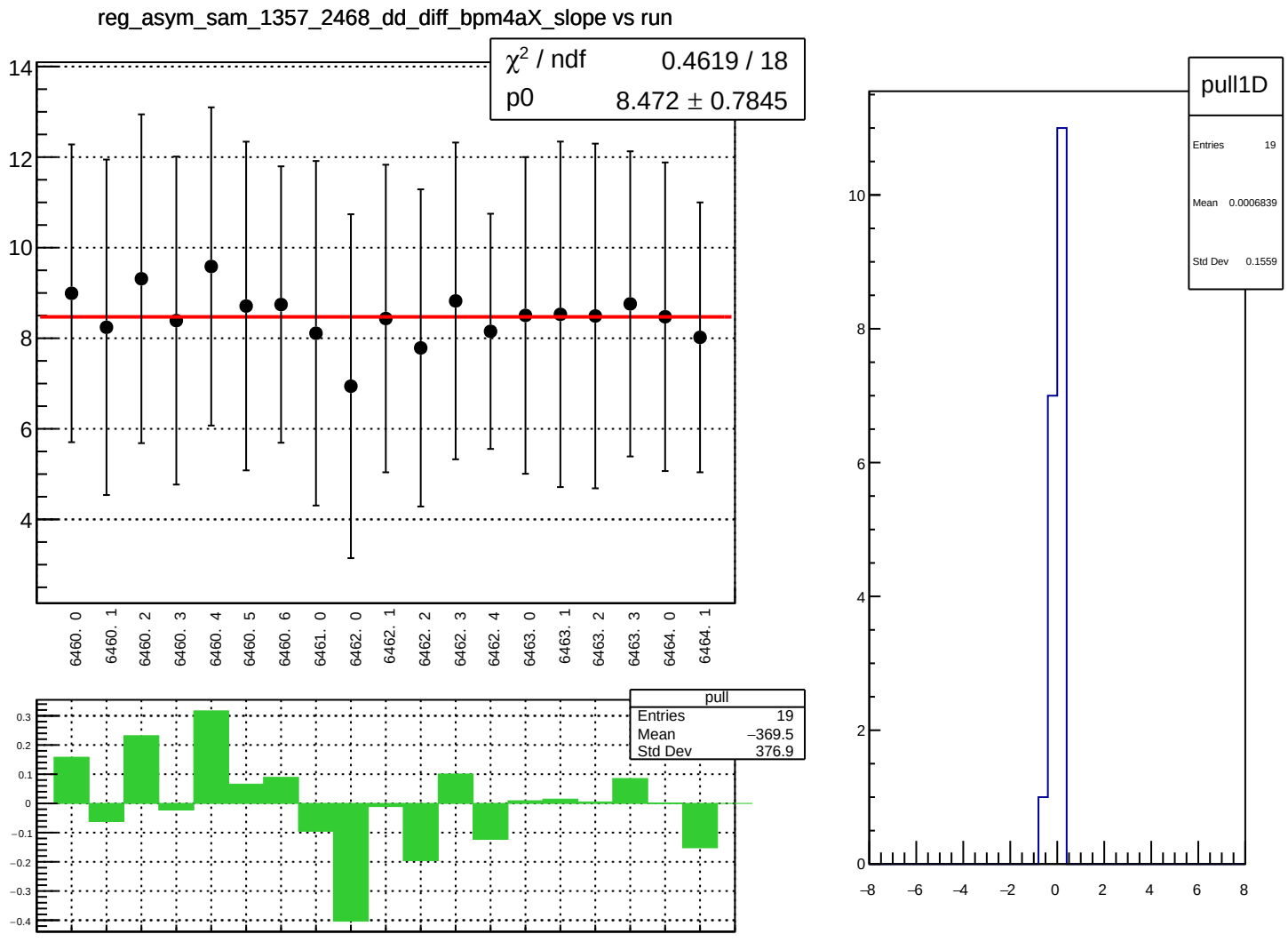

pull1D
Entries 19
Mean 0.0005621
Std Dev 0.1408
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

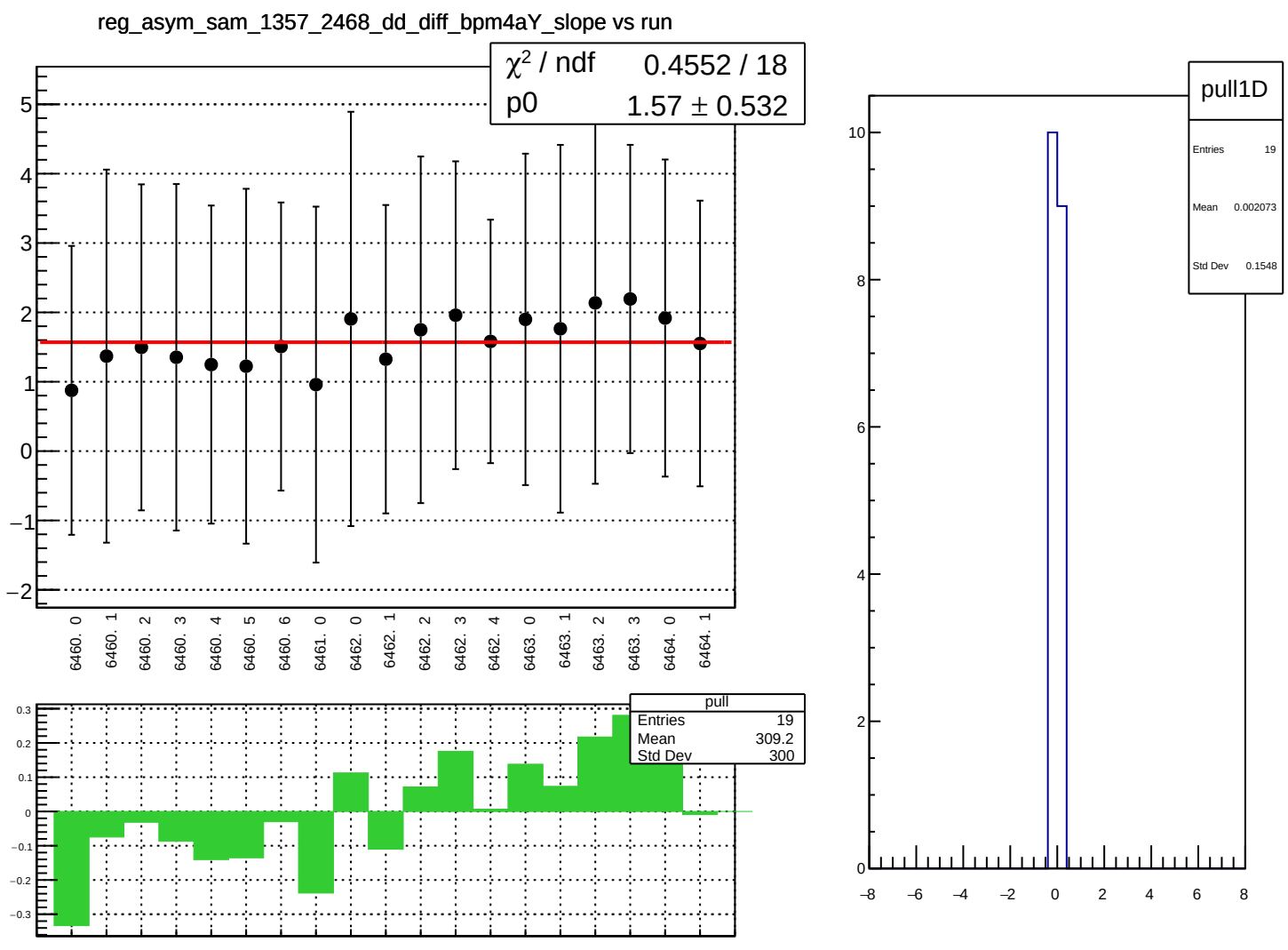

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 0.5413 / 18
p0 −70.18 ± 3.311
−50
−60
−70
−80
−90
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 47.4
Std Dev 46.13
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
pull1D
Entries 19
Mean −0.003181
Std Dev 0.1688
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

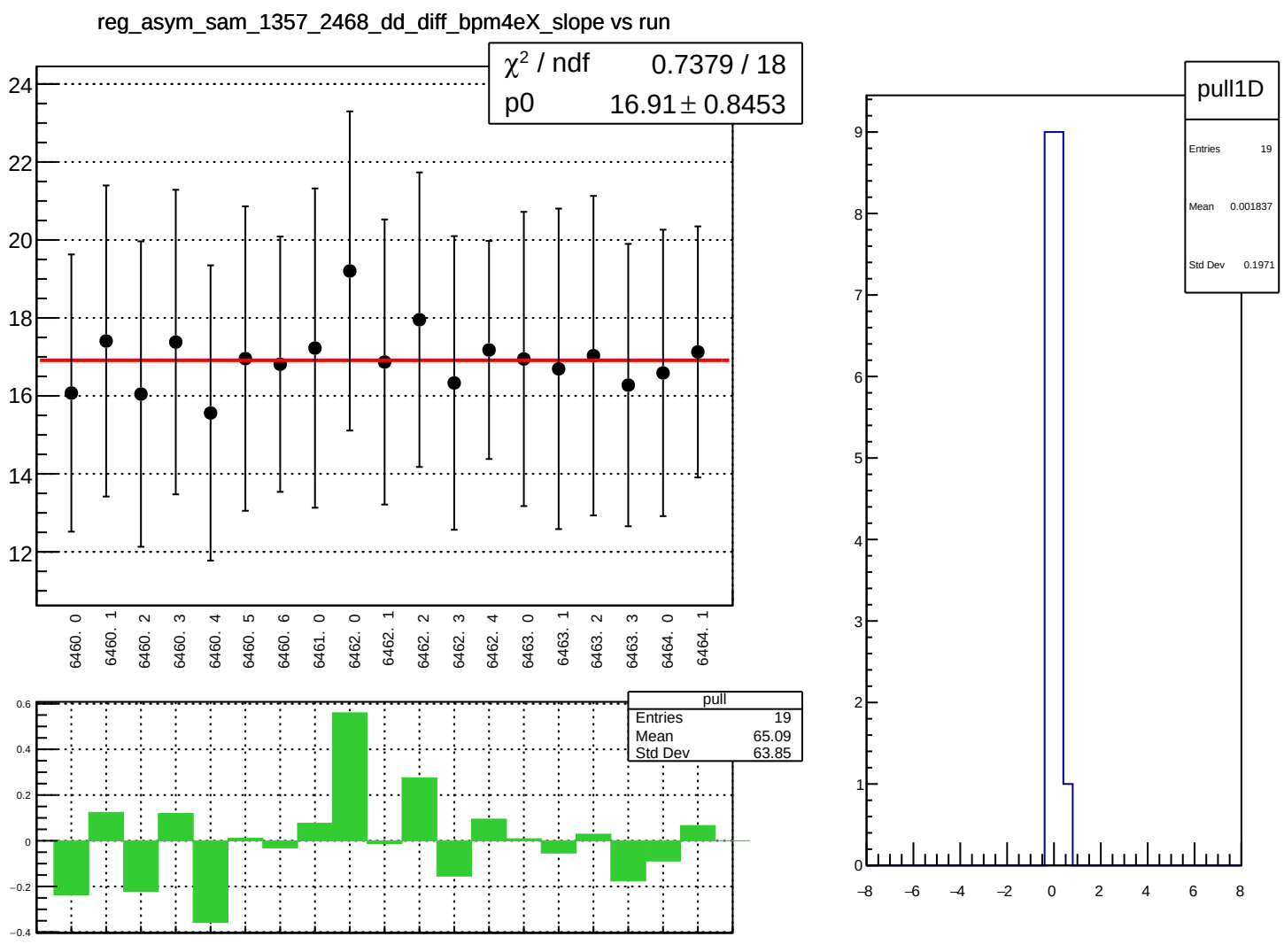

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.4677 / 18
p0 46.3 ± 2.113
60
55
50
45
40
35
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −328.4
Std Dev 337.8
0.2
0.1
0
−0.1
−0.2
−0.3

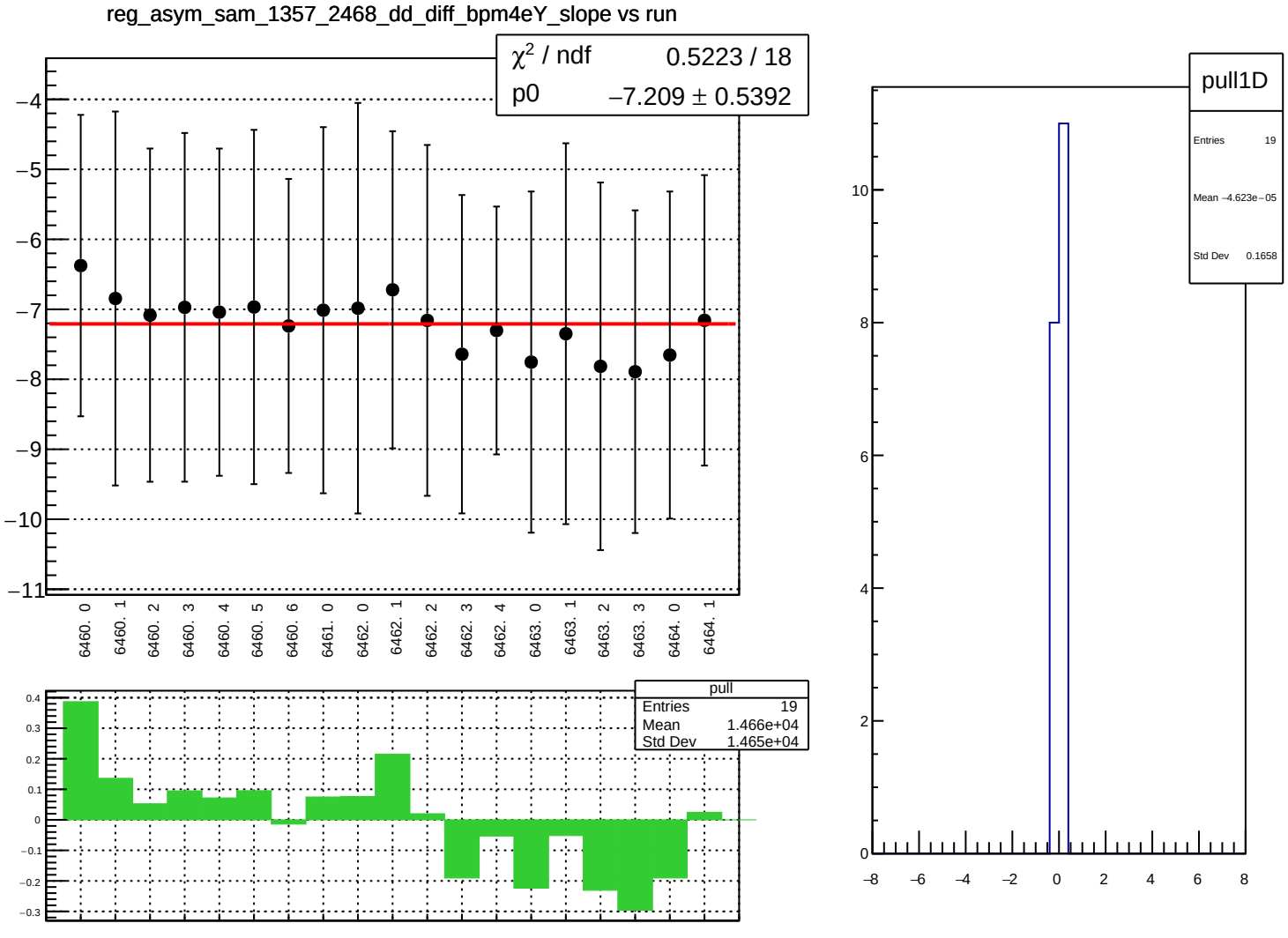

pull1D
Entries 19
Mean −0.001742
Std Dev 0.1569
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

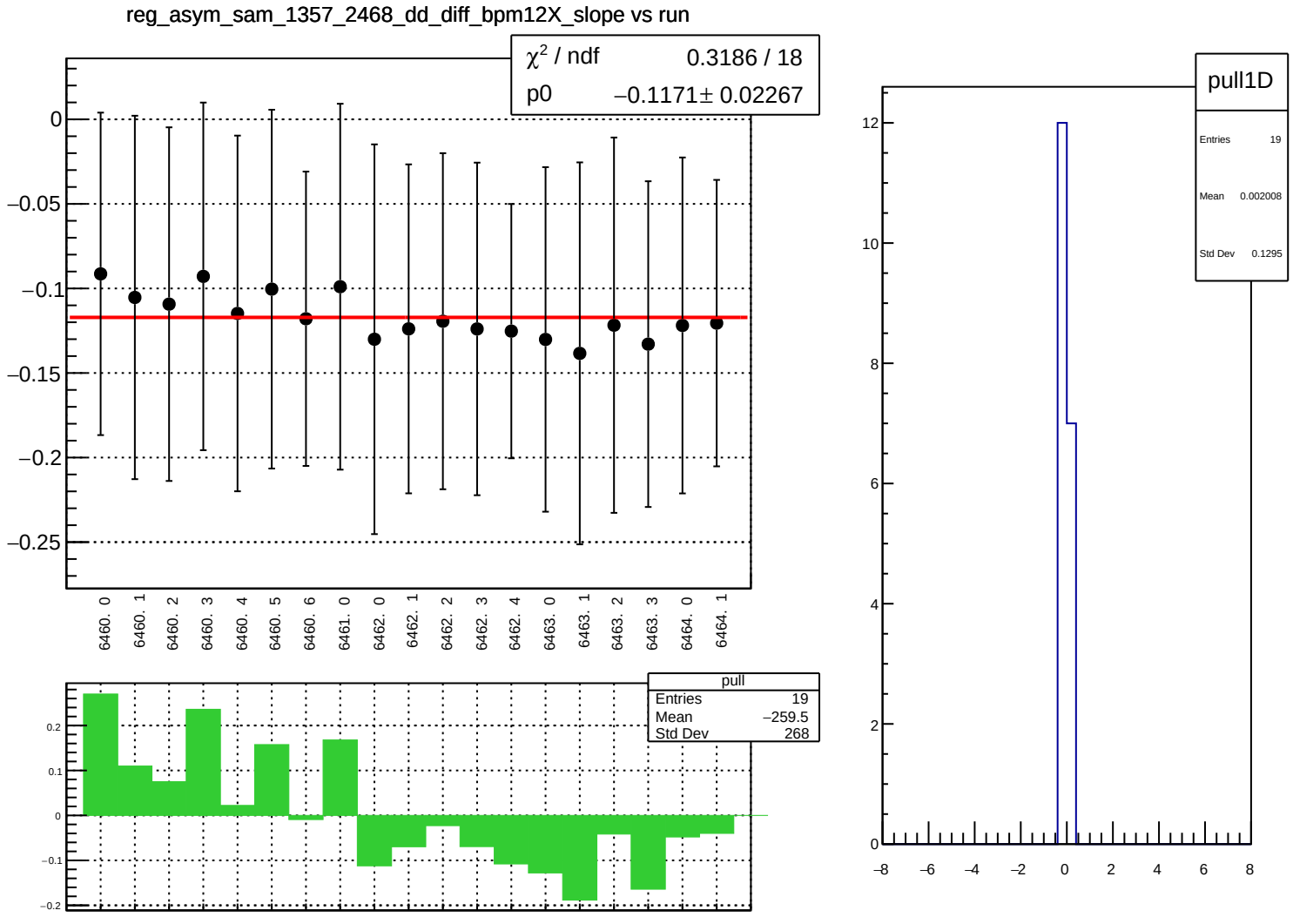

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 0.4932 / 18
p0 0.7714 ± 0.08878
1.2
1
0.8
0.6
0.4
0.2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −157.8
Std Dev 167.1
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 19
Mean −0.004721
Std Dev 0.161
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

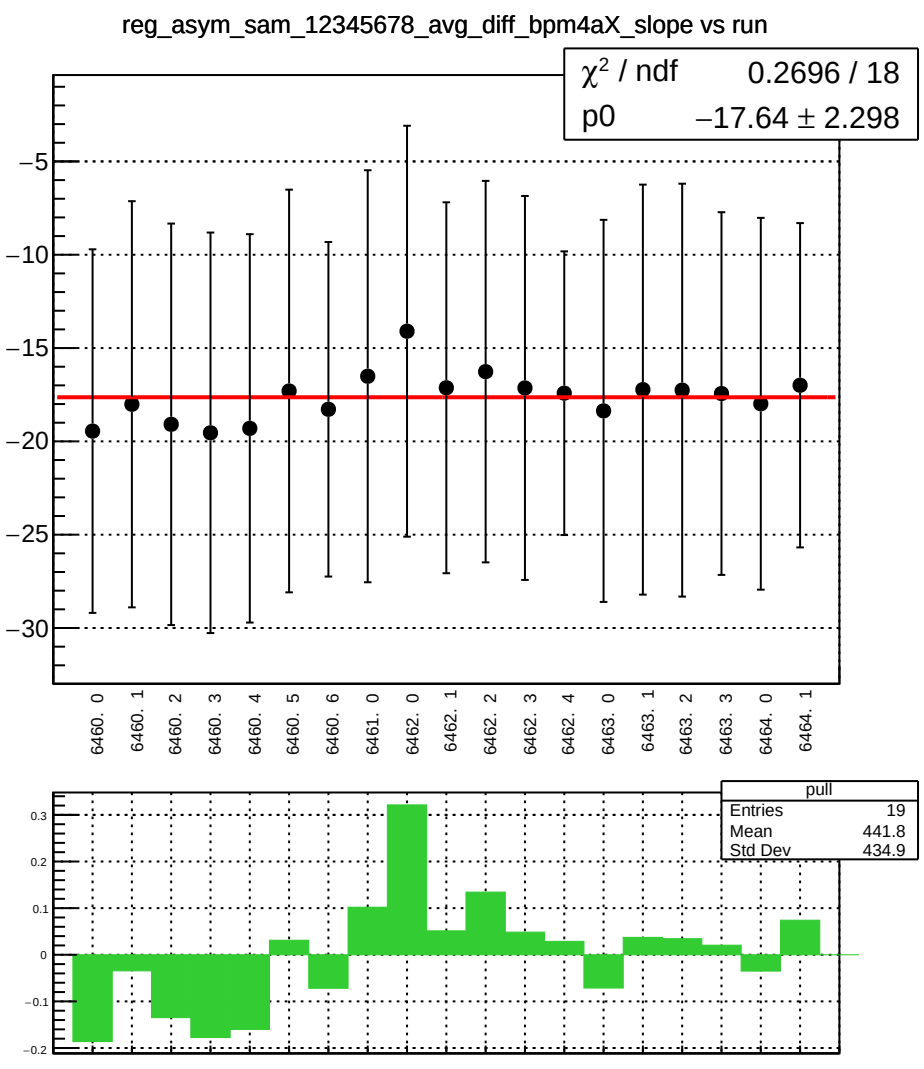

reg_asym_sam_1357_2468_dd_diff_bpm4aX_slope vs run
χ² / ndf 0.4619 / 18
p0 8.472 ± 0.7845
14
12
10
8
6
4
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −369.5
Std Dev 376.9
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 19
Mean 0.0006839
Std Dev 0.1559
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

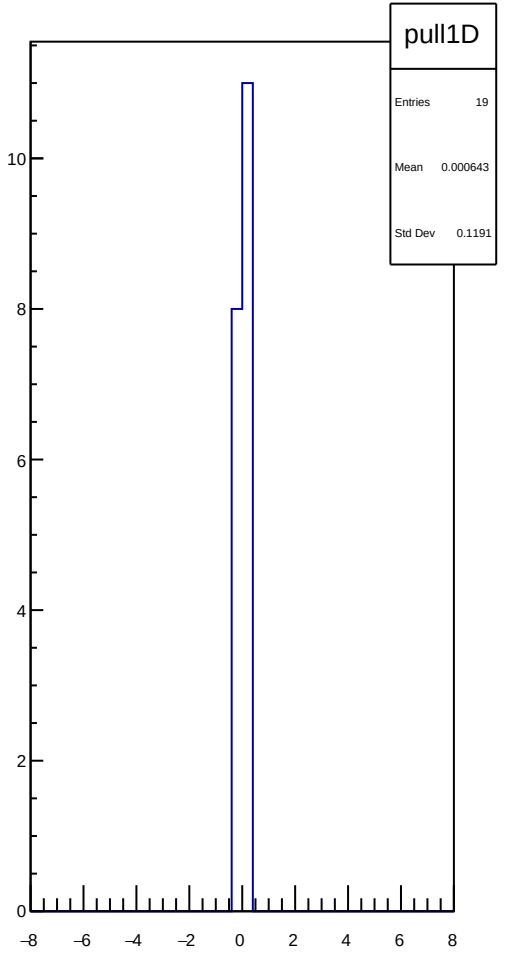

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.4552 / 18
p0 1.57 ± 0.532
5
4
3
2
1
0
−1
−2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 309.2
Std Dev 300
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 19
Mean 0.002073
Std Dev 0.1548
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

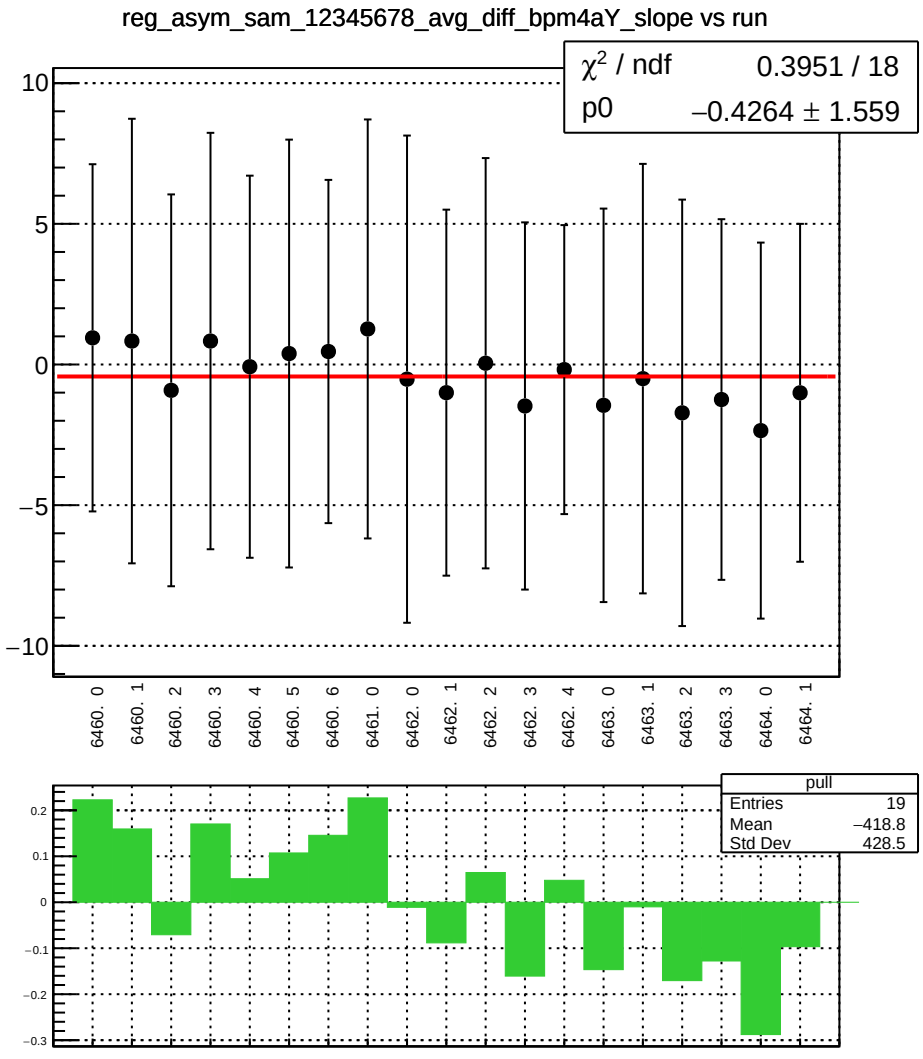

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.7379 / 18
p0 16.91 ± 0.8453
24
22
20
18
16
14
12
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 65.09
Std Dev 63.85
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 19
Mean 0.001837
Std Dev 0.1971
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

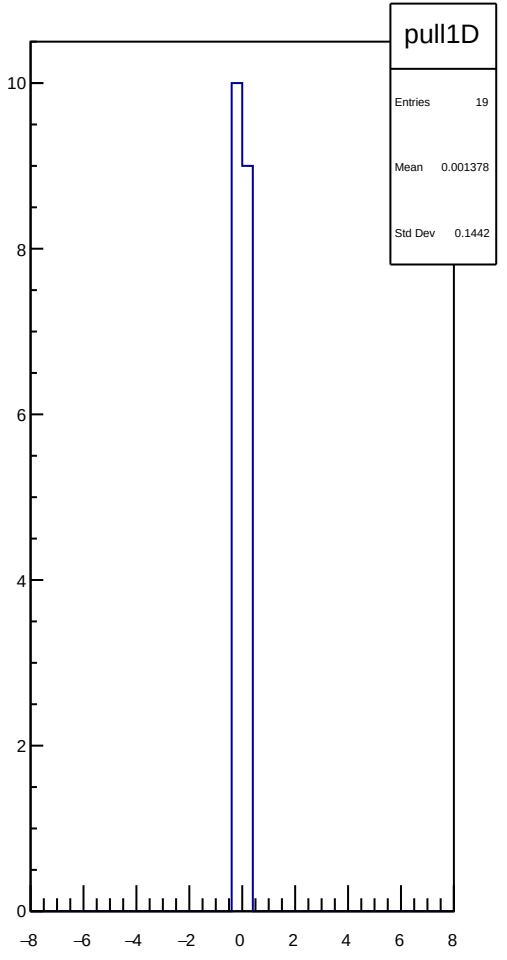

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.5223 / 18
p0 −7.209 ± 0.5392
−4
−5
−6
−7
−8
−9
−10
−11
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 1.466e+04
Std Dev 1.465e+04
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 19
Mean −4.623e−05
Std Dev 0.1658
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

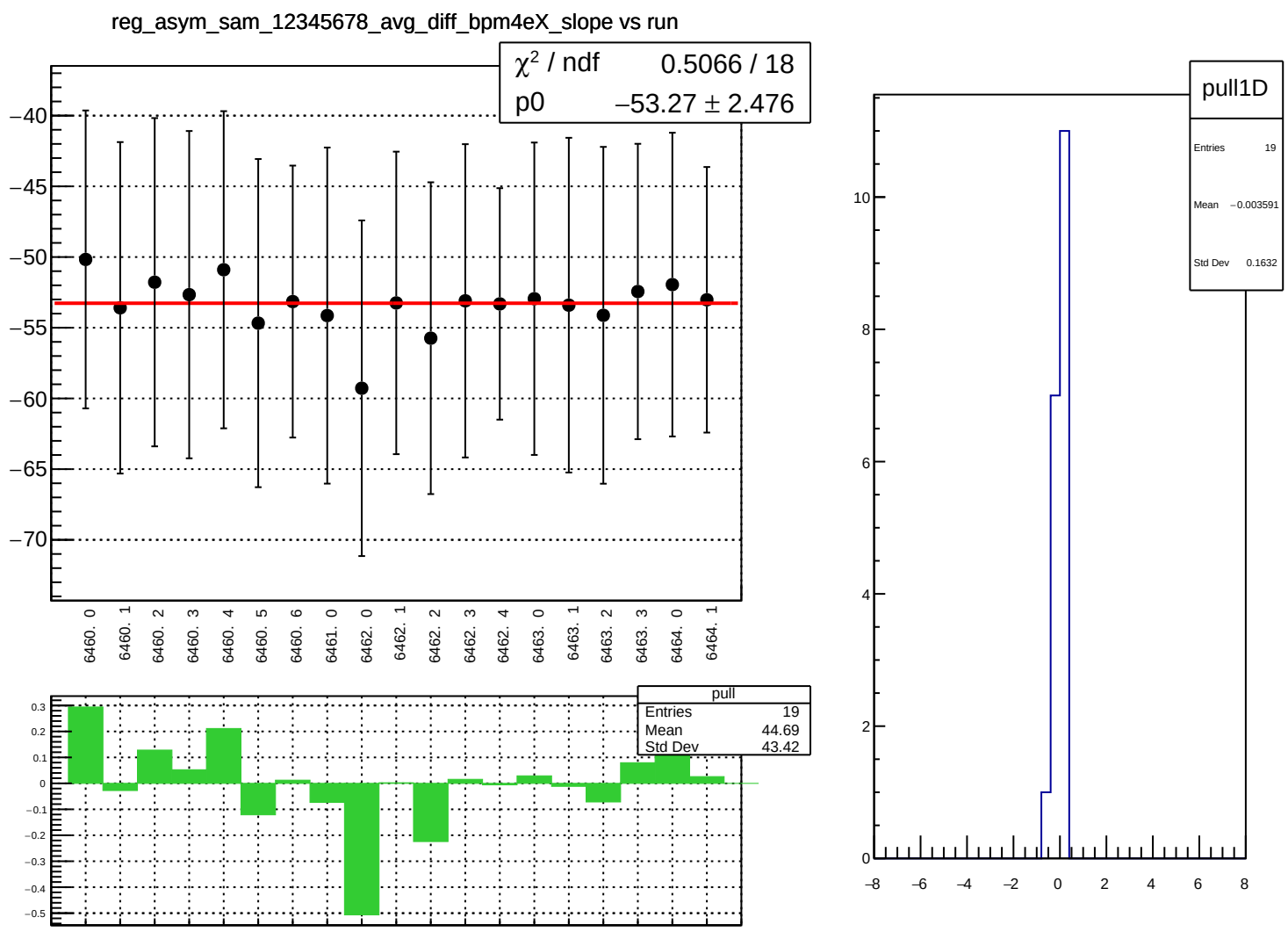

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 0.3186 / 18
p0 −0.1171± 0.02267
0
−0.05
−0.1
−0.15
−0.2
−0.25
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −259.5
Std Dev 268
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 19
Mean 0.002008
Std Dev 0.1295
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

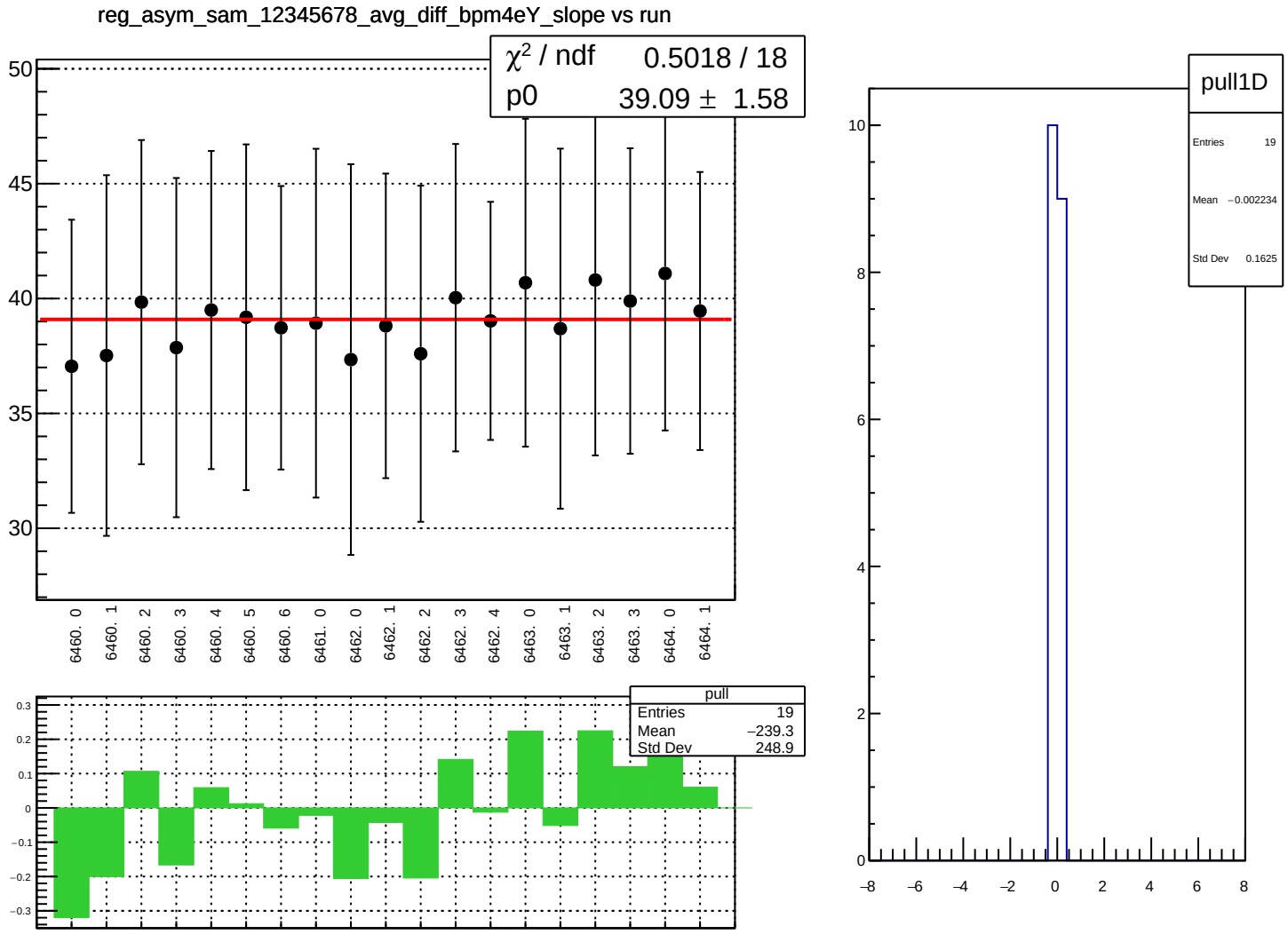

reg_asym_sam_12345678_avg_diff_bpm4aX_slope vs run
χ² / ndf 0.2696 / 18
p0 −17.64 ± 2.298
−5
−10
−15
−20
−25
−30
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 441.8
Std Dev 434.9
0.3
0.2
0.1
0
−0.1
−0.2

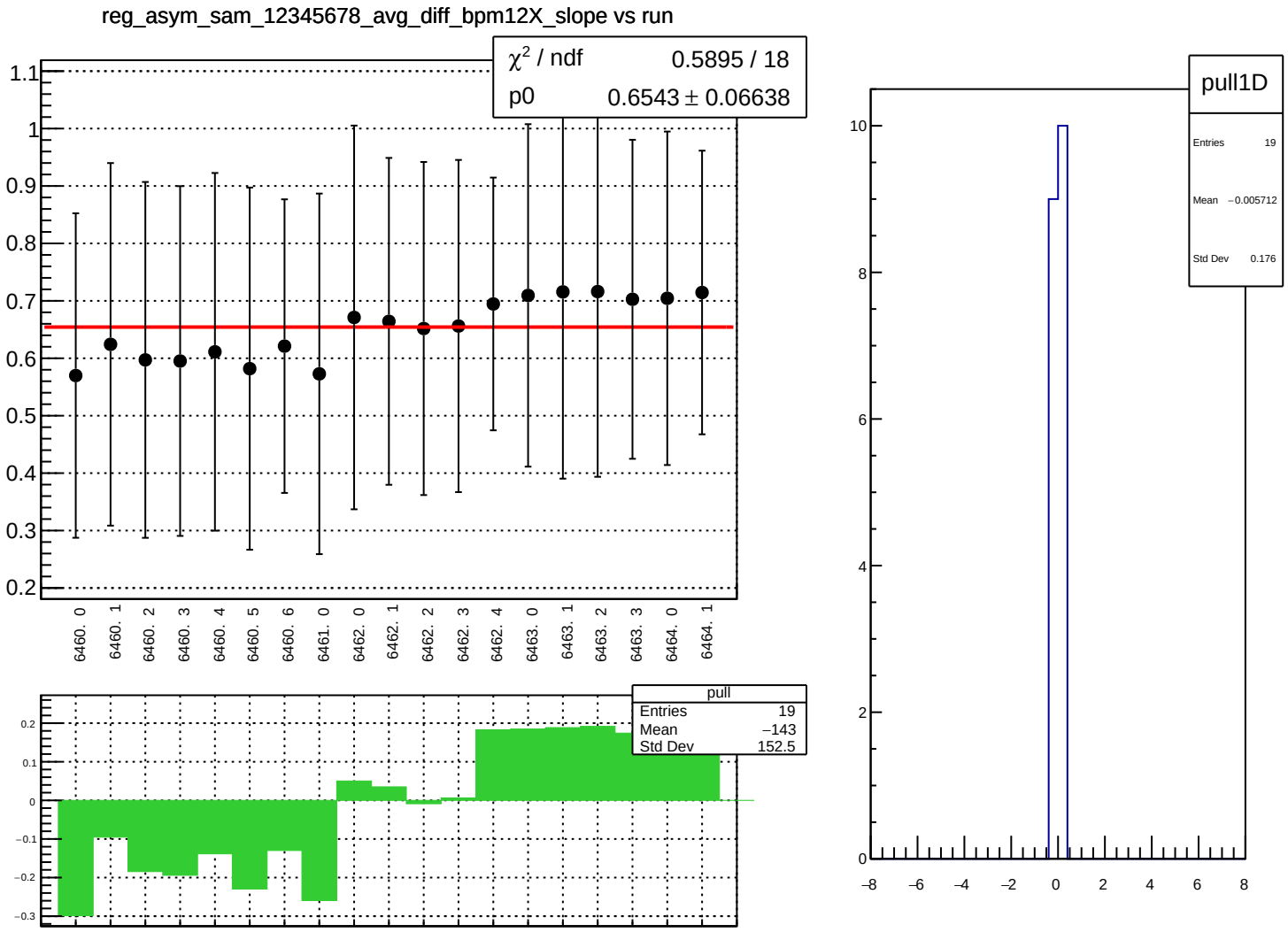

pull1D
Entries 19
Mean 0.000643
Std Dev 0.1191
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

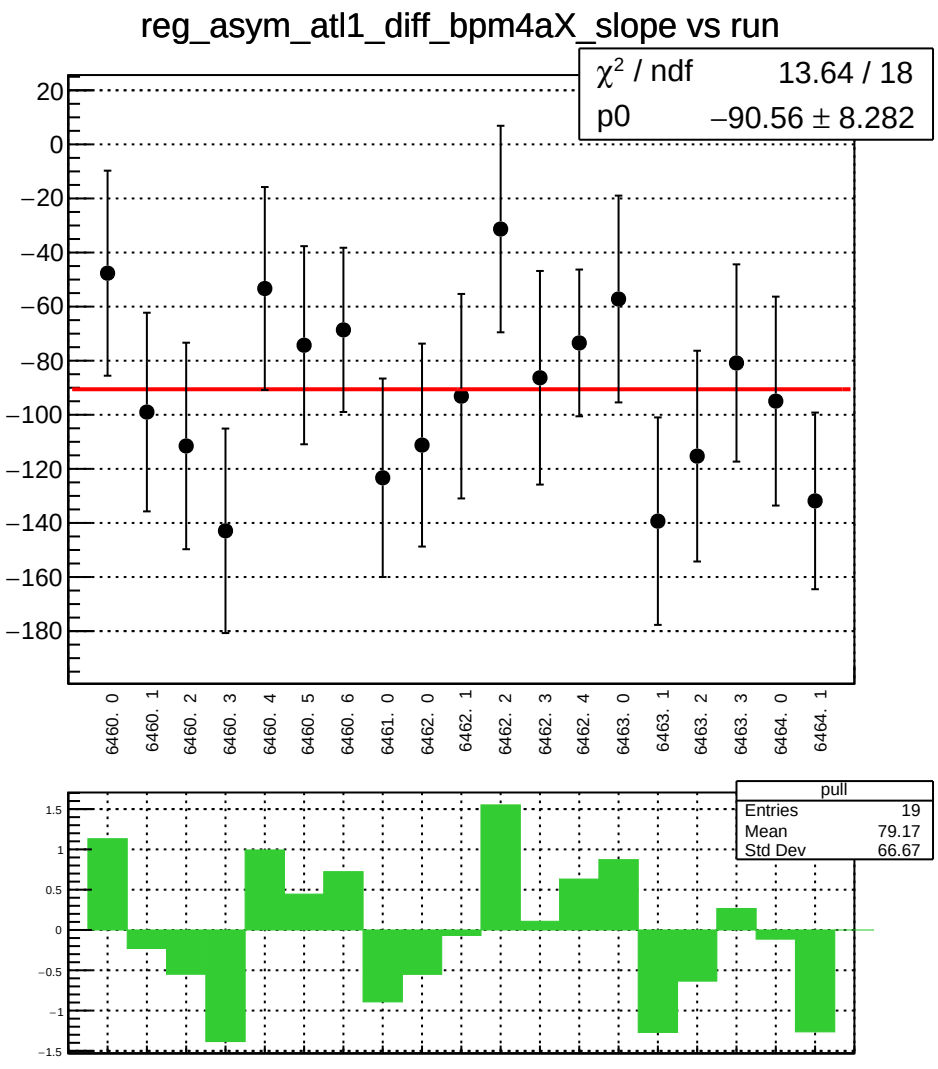

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.3951 / 18
p0 −0.4264 ± 1.559
10
5
0
−5
−10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −418.8
Std Dev 428.5
0.2
0.1
0
−0.1
−0.2
−0.3

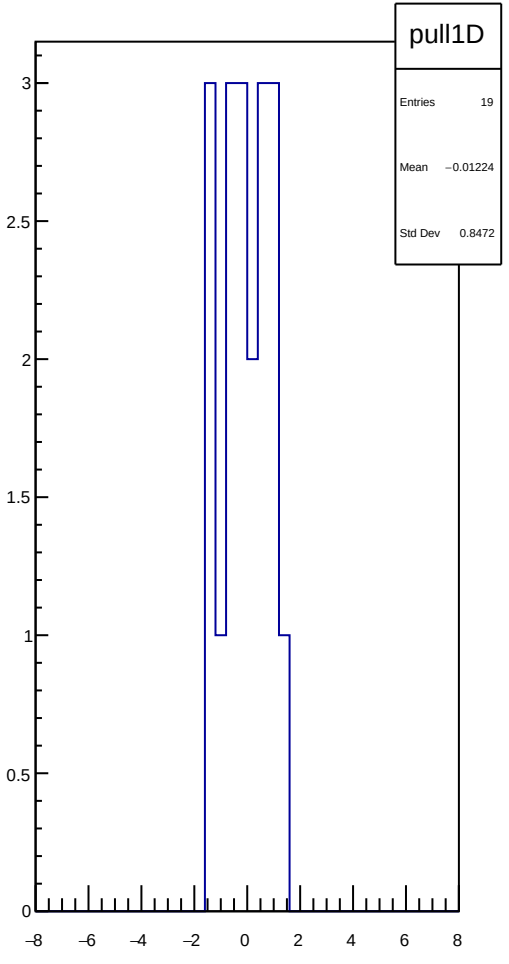

pull1D
Entries 19
Mean 0.001378
Std Dev 0.1442
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

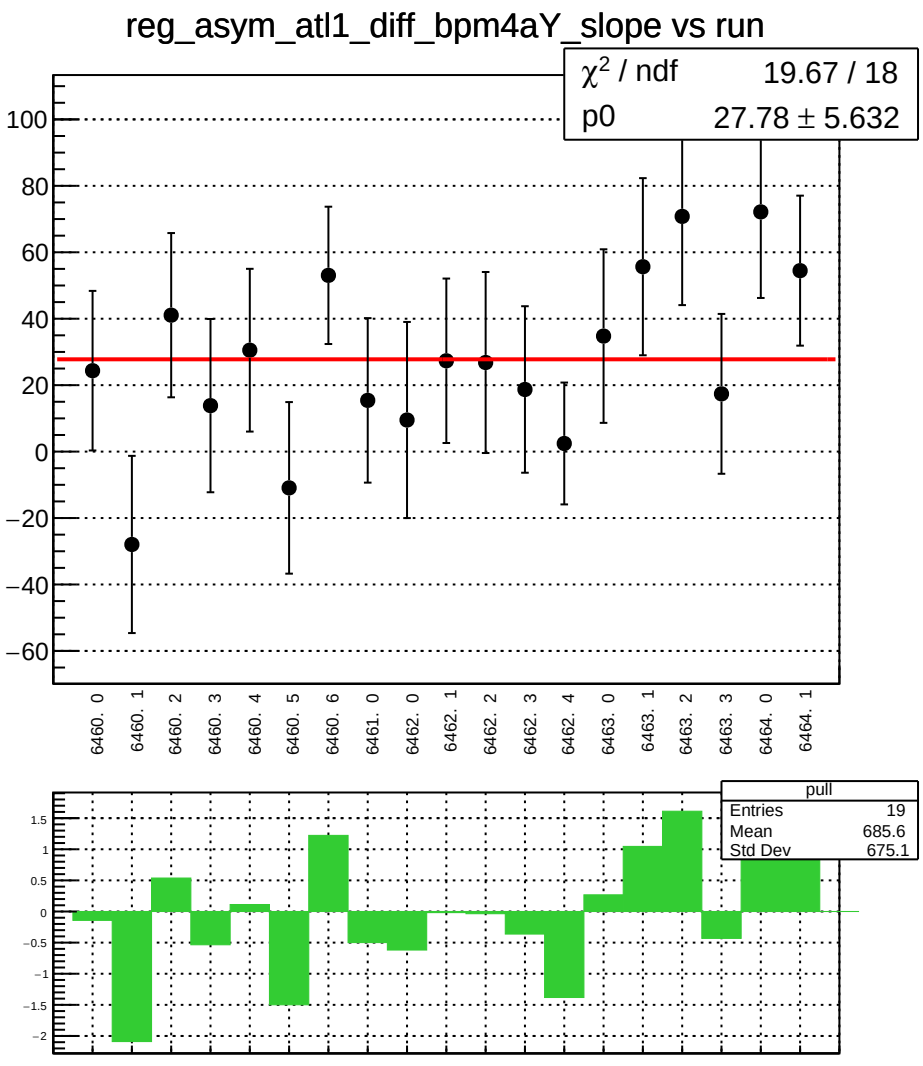

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 0.5066 / 18
p0 −53.27 ± 2.476
−40
−45
−50
−55
−60
−65
−70
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 44.69
Std Dev 43.42
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
pull1D
Entries 19
Mean −0.003591
Std Dev 0.1632
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

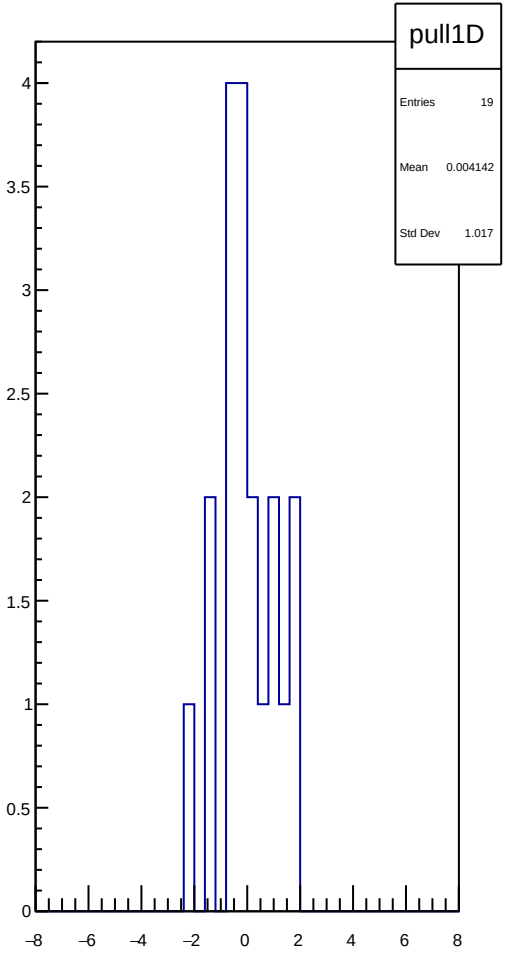

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.5018 / 18
p0 39.09 ± 1.58
50
45
40
35
30
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −239.3
Std Dev 248.9
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 19
Mean −0.002234
Std Dev 0.1625
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

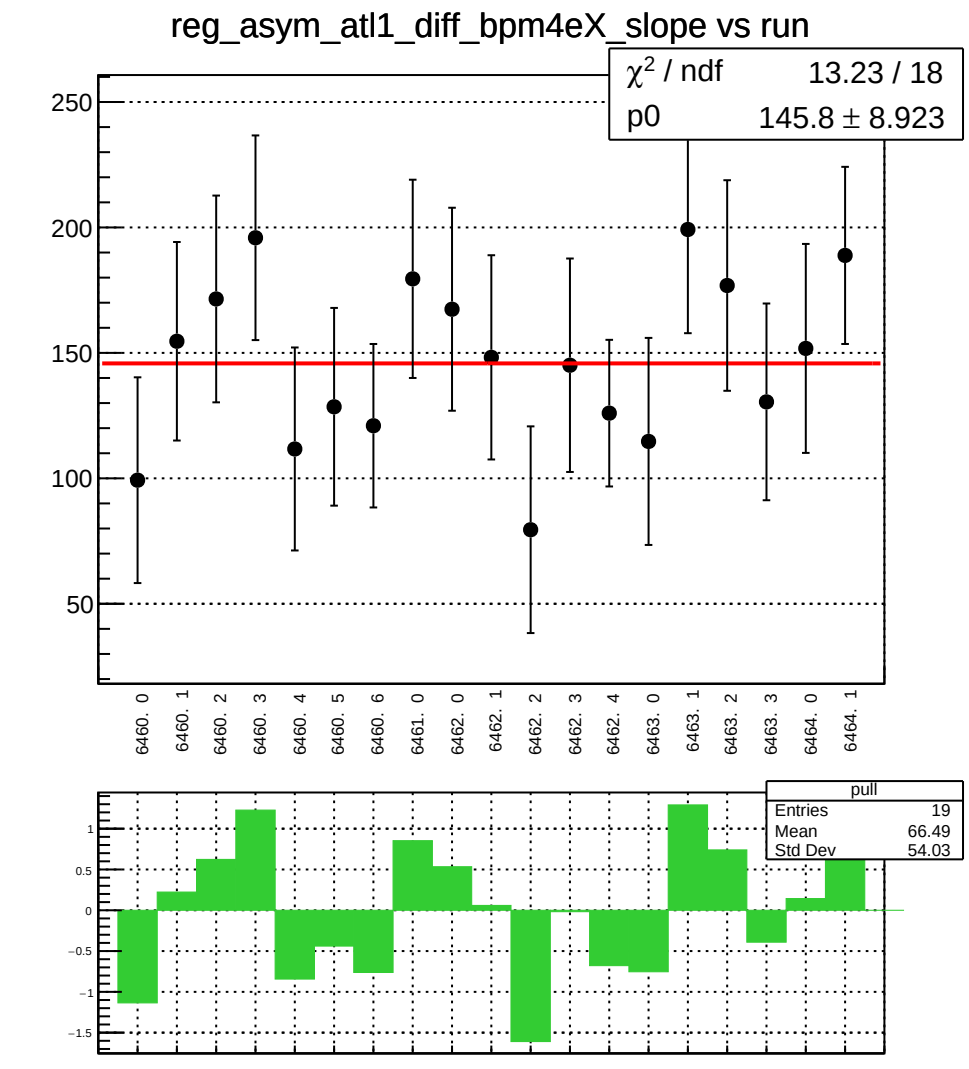

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 0.5895 / 18
p0 0.6543 ± 0.06638
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −143
Std Dev 152.5
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 19
Mean −0.005712
Std Dev 0.176
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

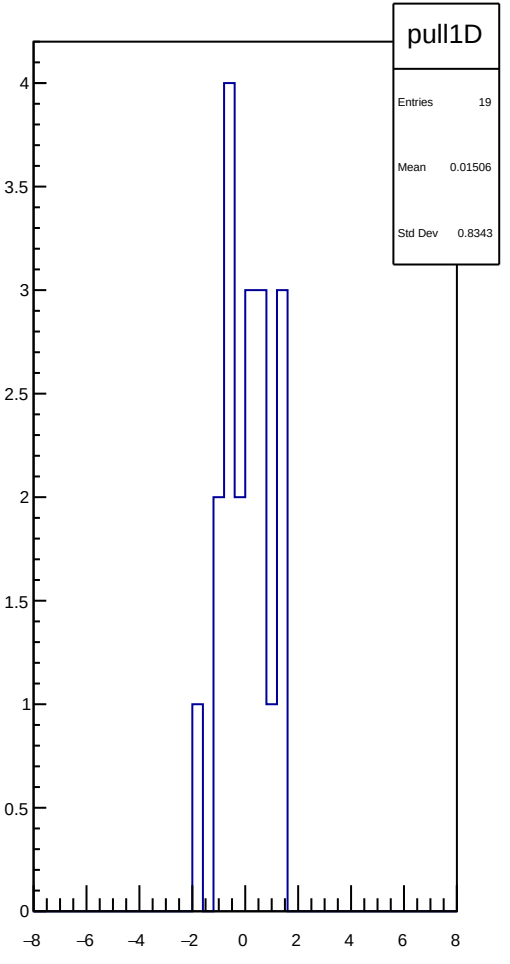

reg_asym_atl1_diff_bpm4aX_slope vs run
χ² / ndf 13.64 / 18
p0 −90.56 ± 8.282
20
0
−20
−40
−60
−80
−100
−120
−140
−160
−180
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 79.17
Std Dev 66.67
1.5
1
0.5
0
−0.5
−1
−1.5

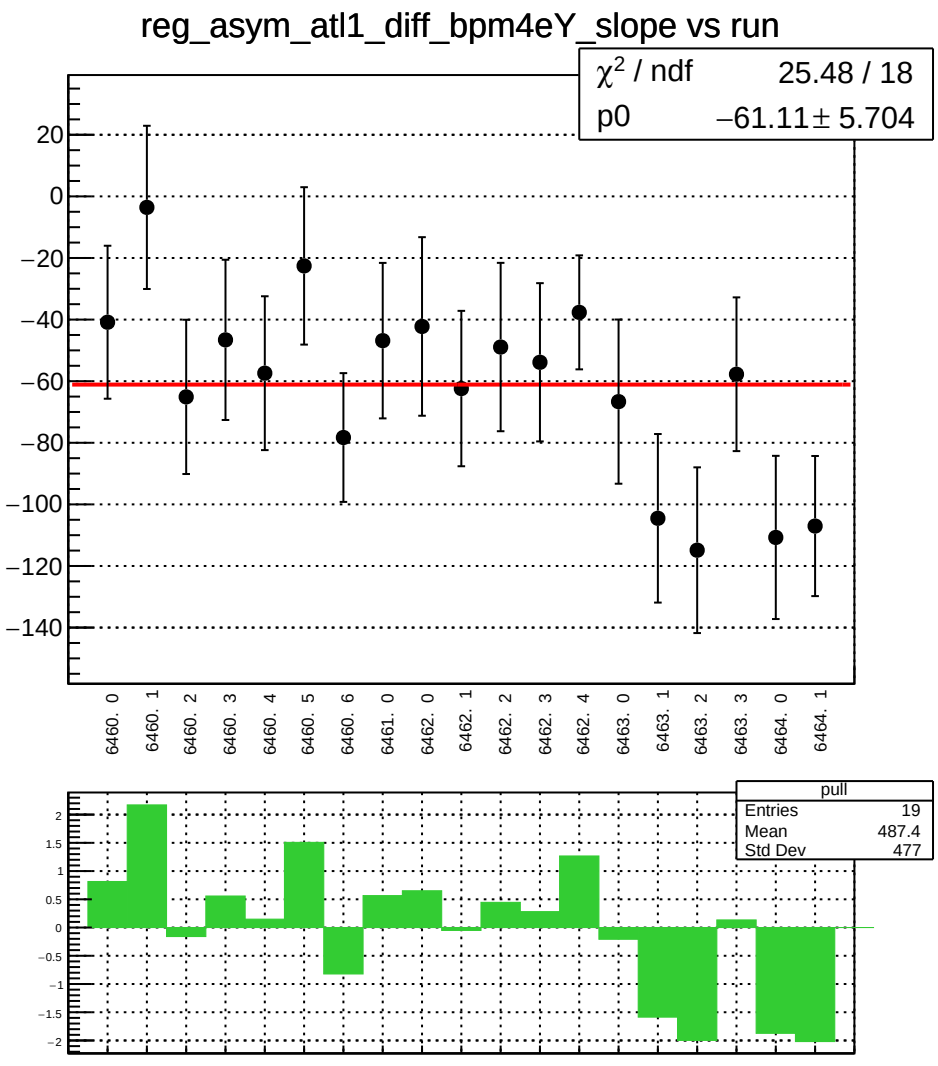

pull1D
Entries 19
Mean −0.01224
Std Dev 0.8472
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

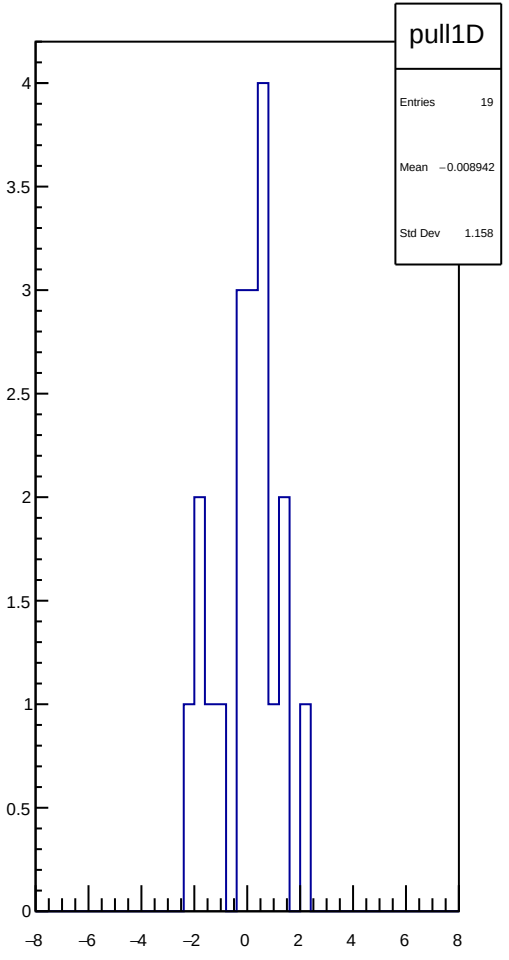

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 19.67 / 18
p0 27.78 ± 5.632
100
80
60
40
20
0
−20
−40
−60
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 685.6
Std Dev 675.1
1.5
1
0.5
0
−0.5
−1
−1.5
−2

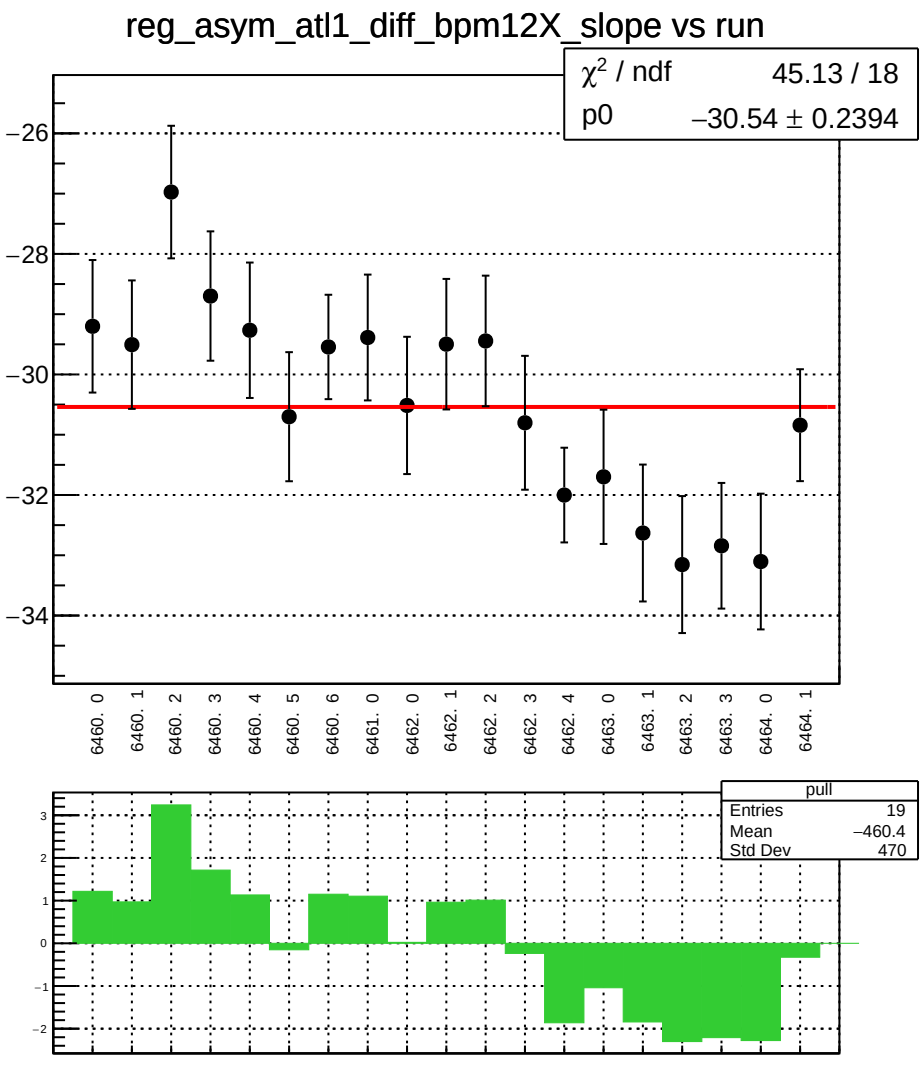

pull1D
Entries 19
Mean 0.004142
Std Dev 1.017
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

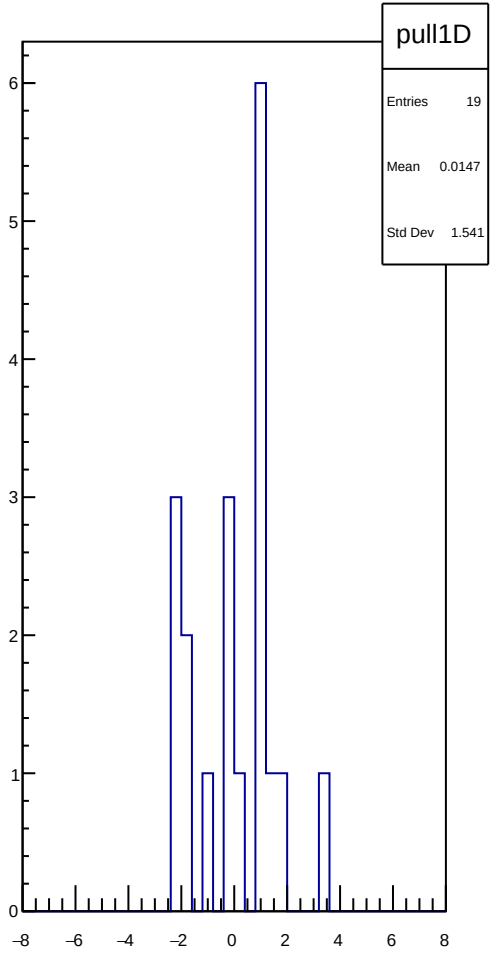

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 13.23 / 18
p0 145.8 ± 8.923
250
200
150
100
50
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 66.49
Std Dev 54.03
1
0.5
0
−0.5
−1
−1.5

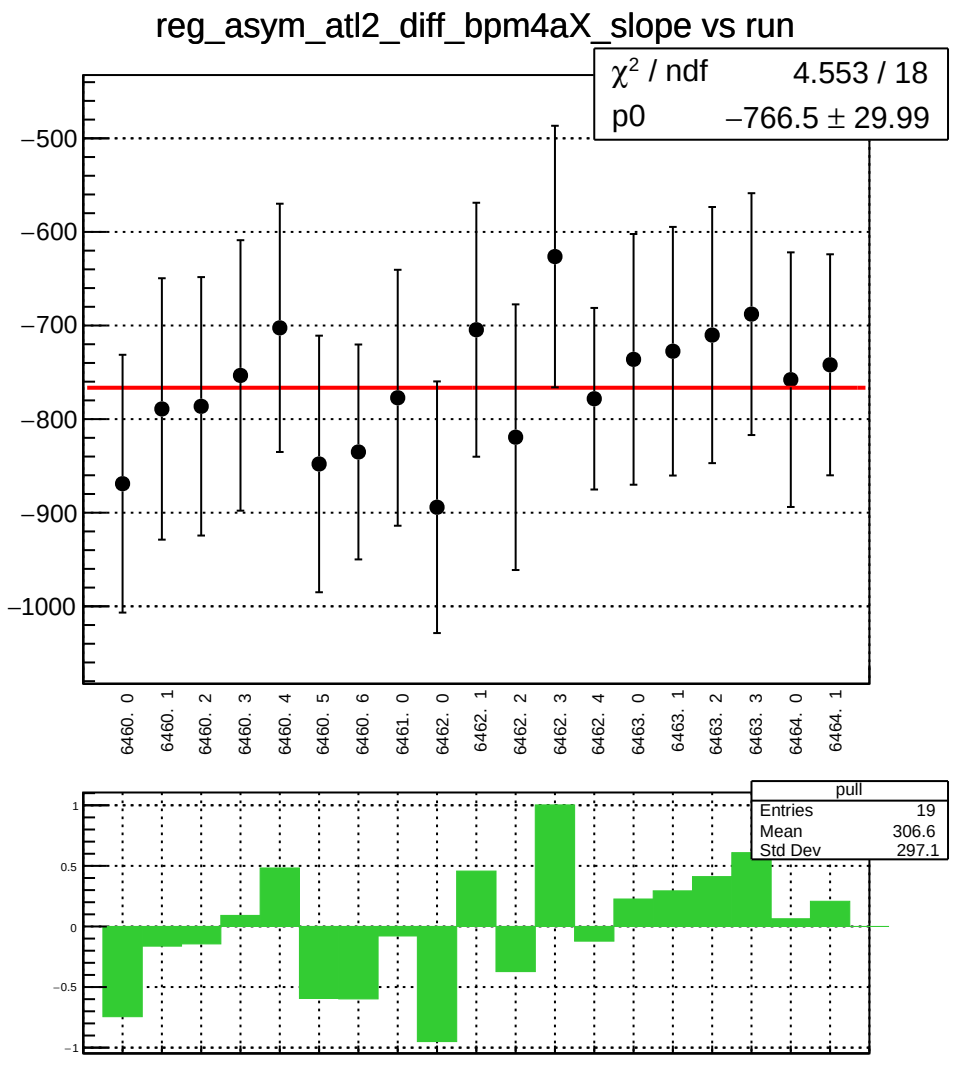

pull1D
Entries 19
Mean 0.01506
Std Dev 0.8343
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

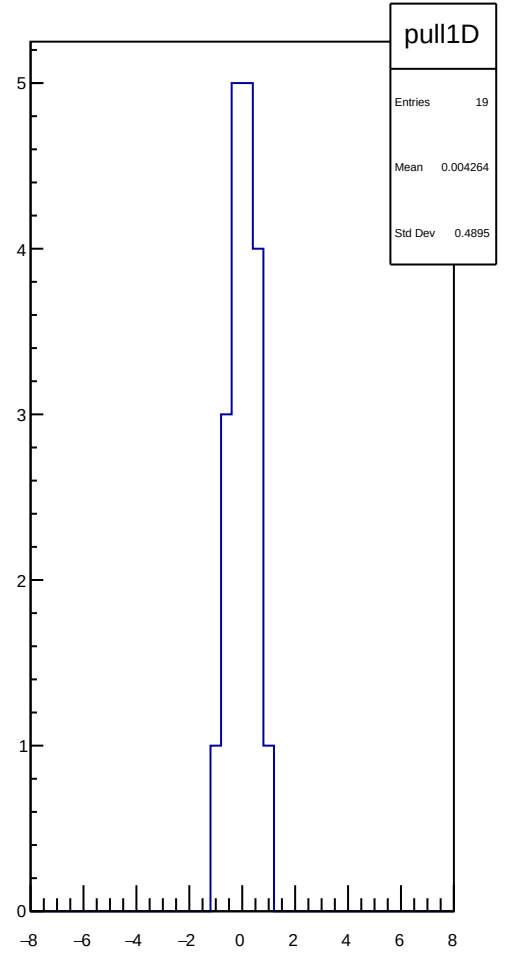

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 25.48 / 18
p0 −61.11 ± 5.704
20
0
−20
−40
−60
−80
−100
−120
−140
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 487.4
Std Dev 477
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

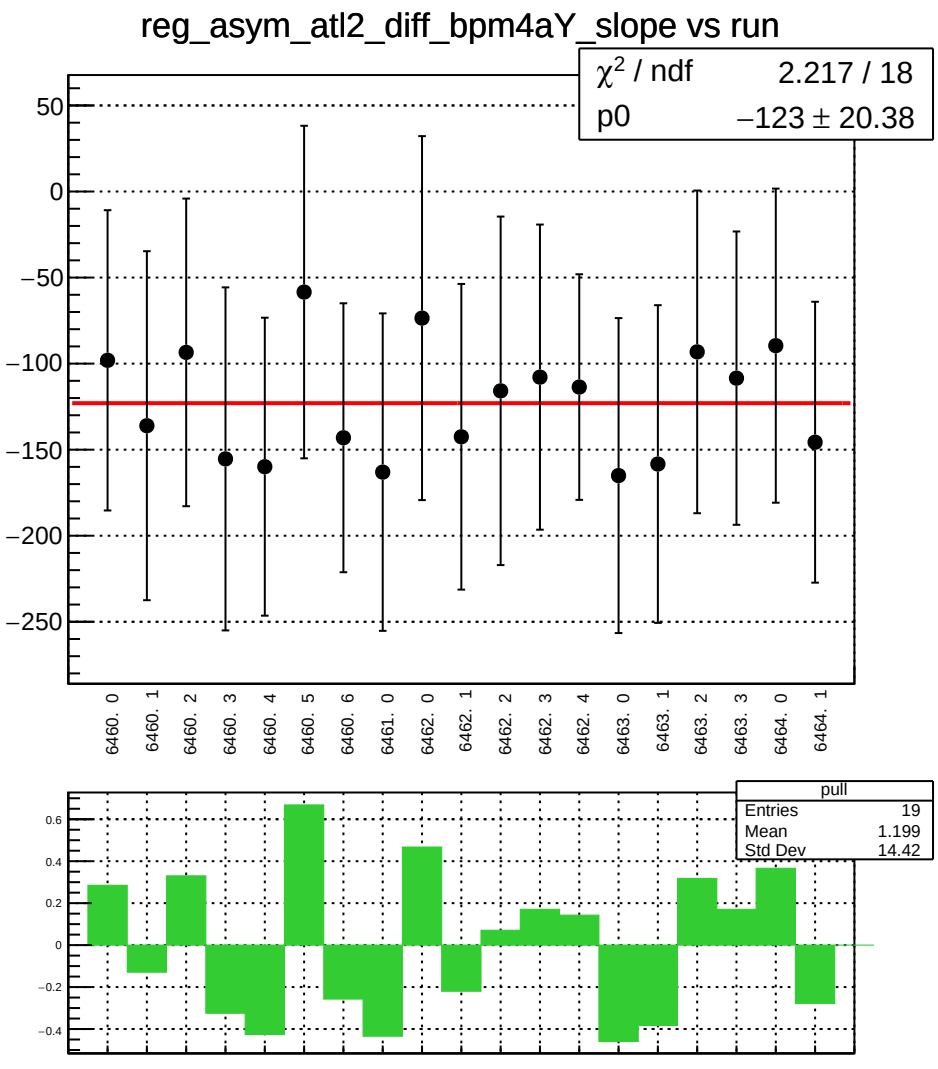

pull1D
Entries 19
Mean −0.008942
Std Dev 1.158
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

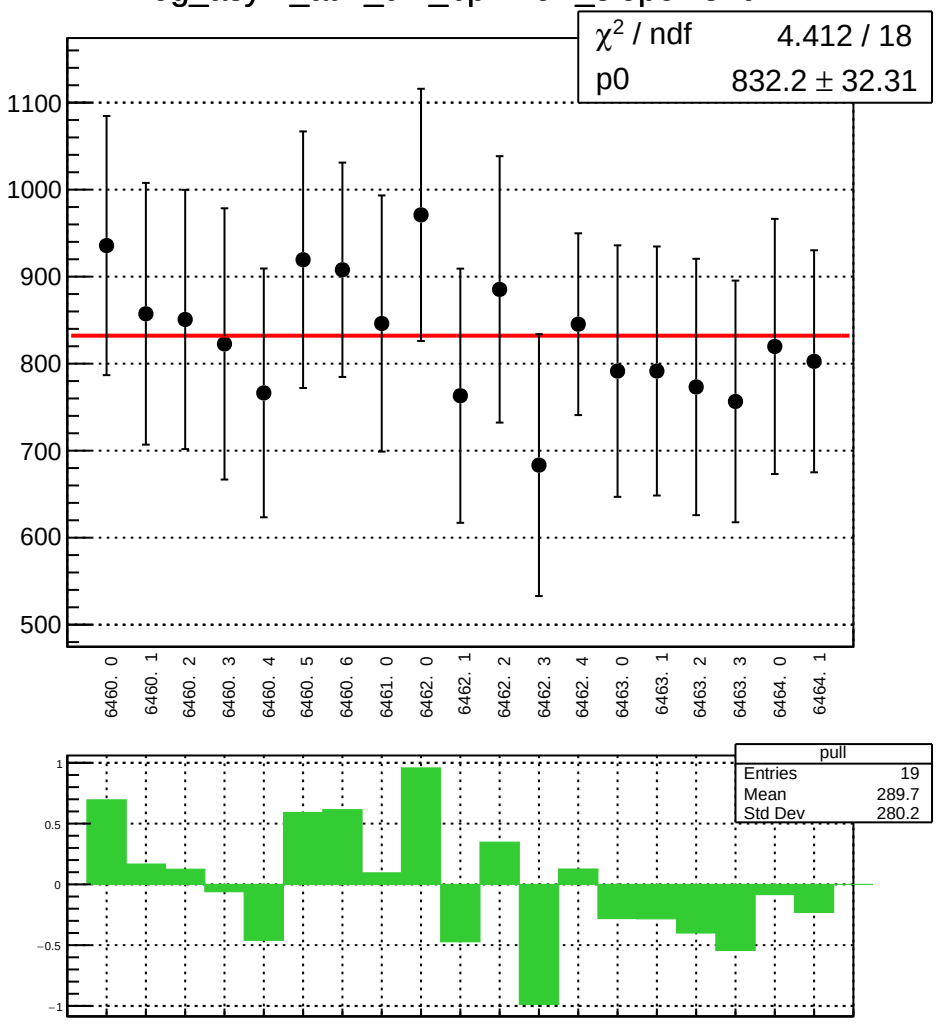

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 45.13 / 18
p0 −30.54 ± 0.2394
−26
−28
−30
−32
−34
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −460.4
Std Dev 470
3
2
1
0
−1
−2

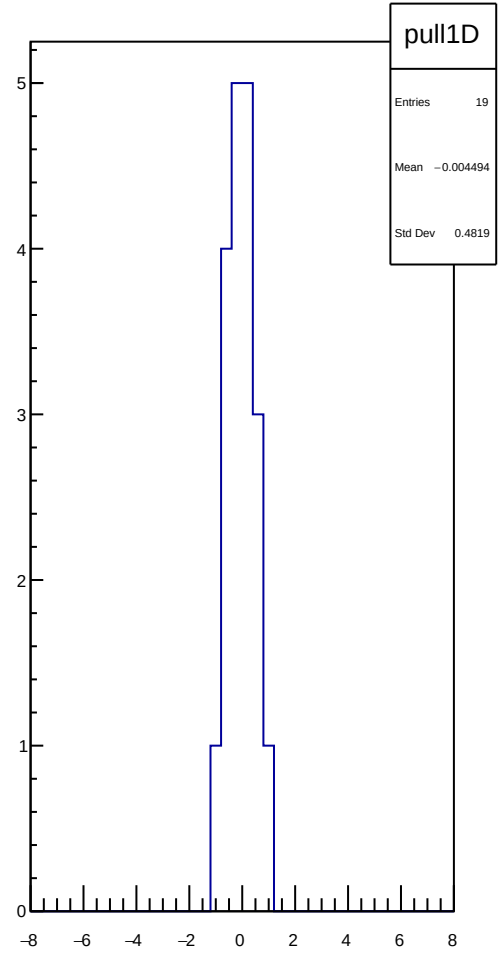

pull1D
Entries 19
Mean 0.0147
Std Dev 1.541
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

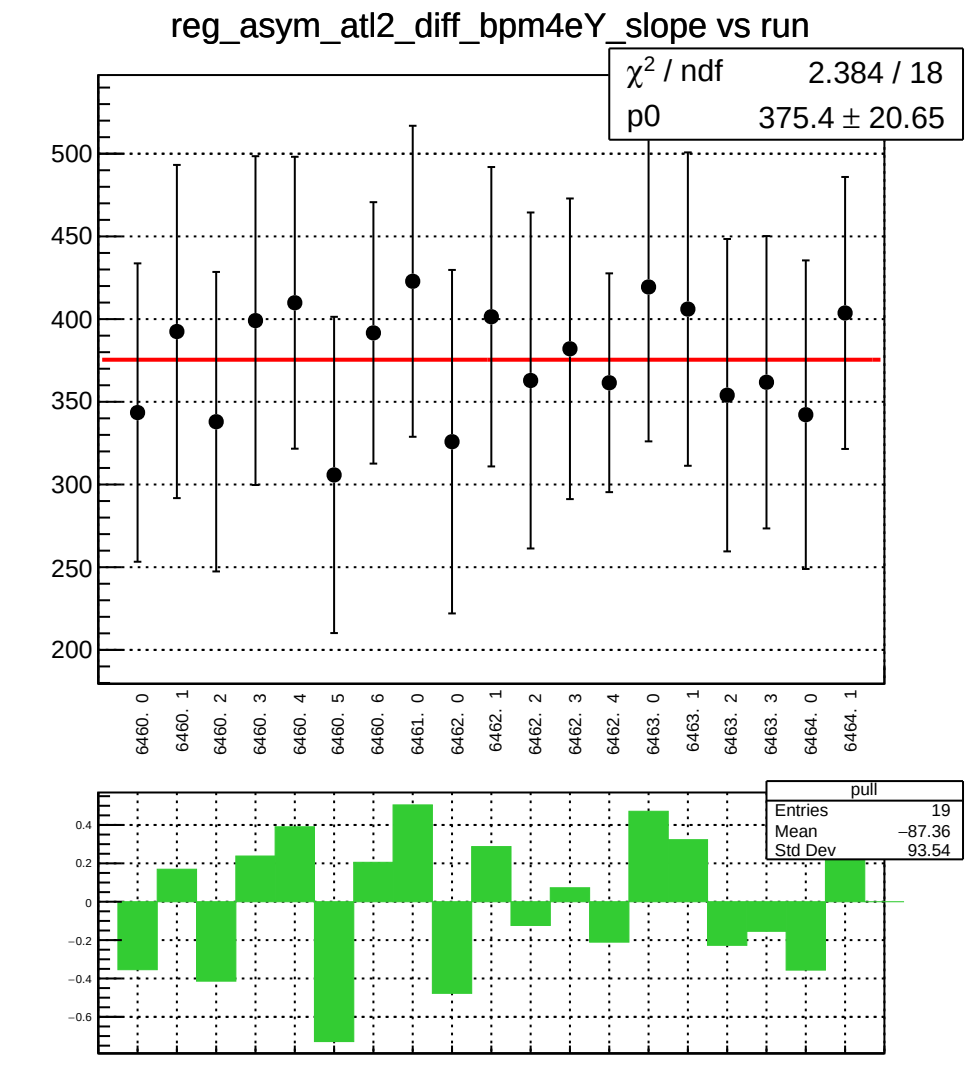

reg_asym_atl2_diff_bpm4aX_slope vs run
χ² / ndf 4.553 / 18
p0 −766.5 ± 29.99
−500
−600
−700
−800
−900
−1000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 306.6
Std Dev 297.1
1
0.5
0
−0.5
−1

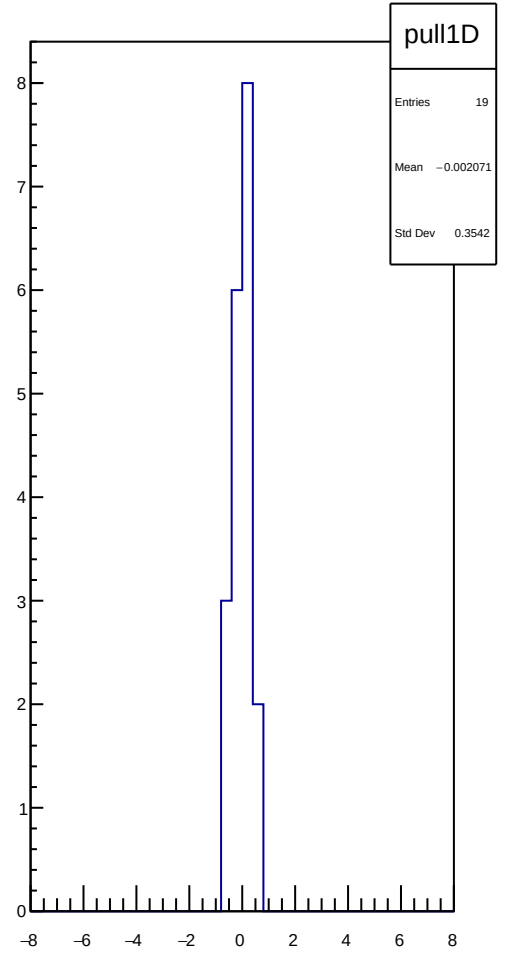

pull1D
Entries 19
Mean 0.004264
Std Dev 0.4895
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

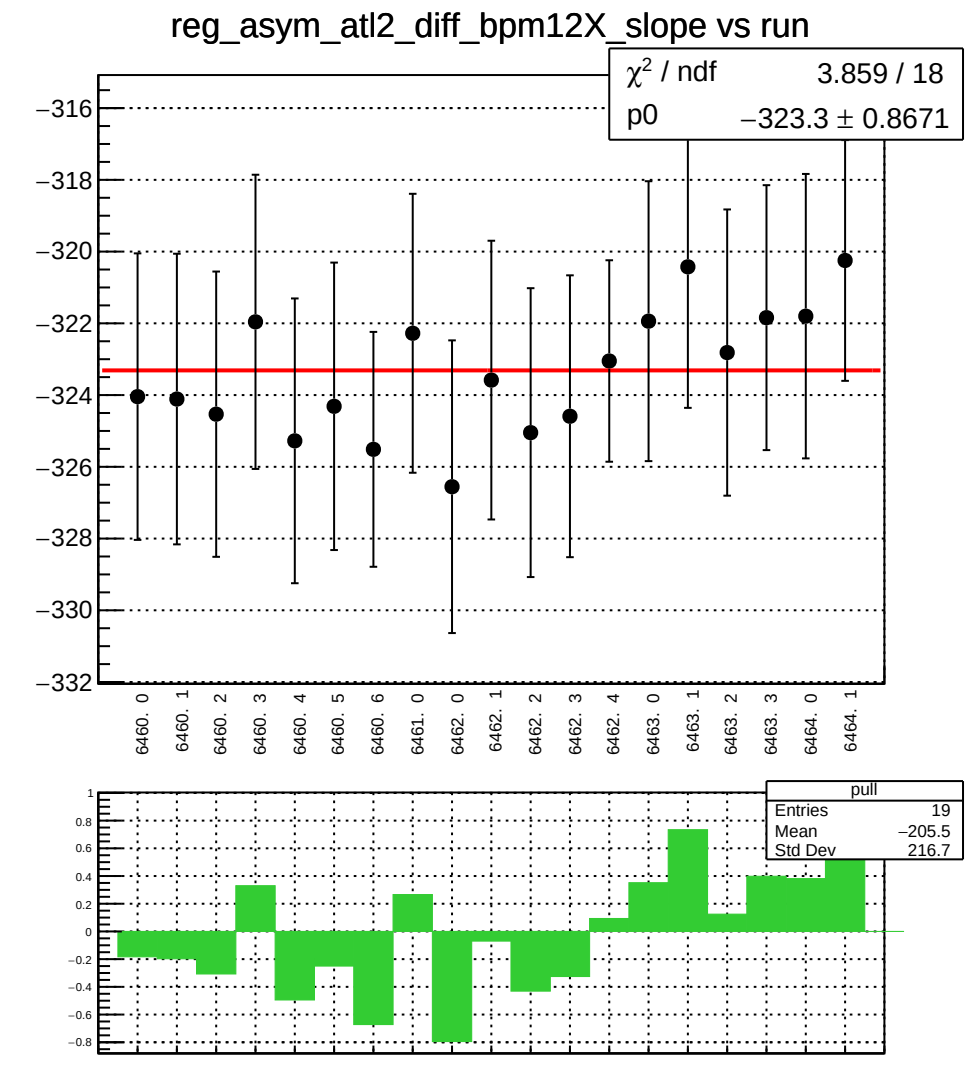

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 2.217 / 18
p0 −123 ± 20.38
50
0
−50
−100
−150
−200
−250
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 1.199
Std Dev 14.42
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 19
Mean 0.004111
Std Dev 0.3416
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

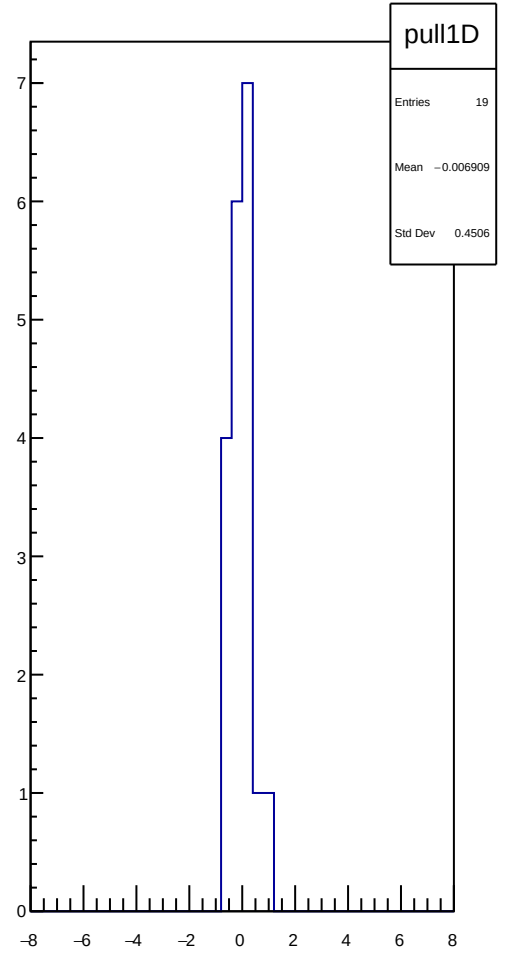

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 4.412 / 18
p0 832.2 ± 32.31
1100
1000
900
800
700
600
500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 289.7
Std Dev 280.2
1
0.5
0
−0.5
−1

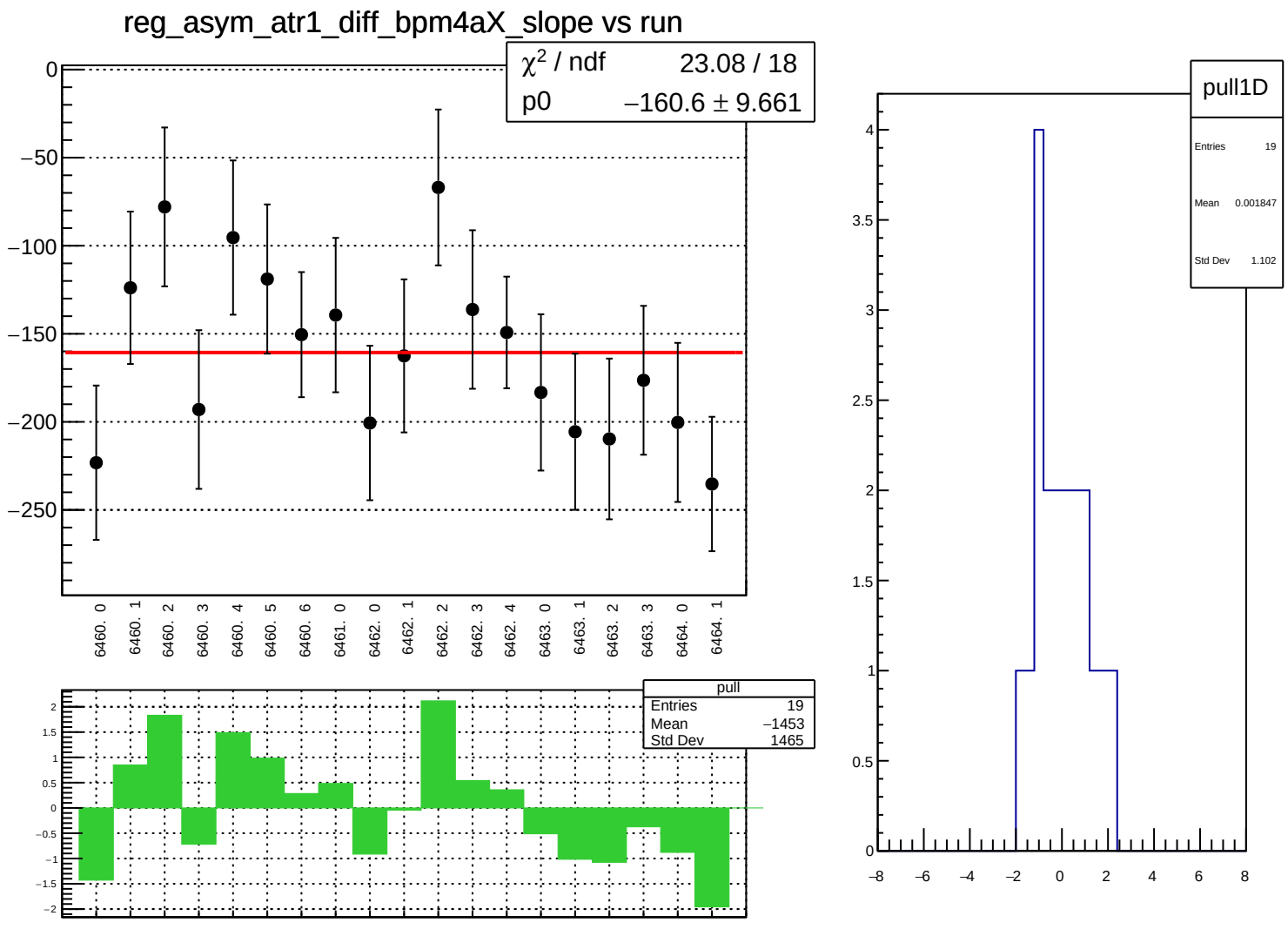

pull1D
Entries 19
Mean −0.004494
Std Dev 0.4819
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

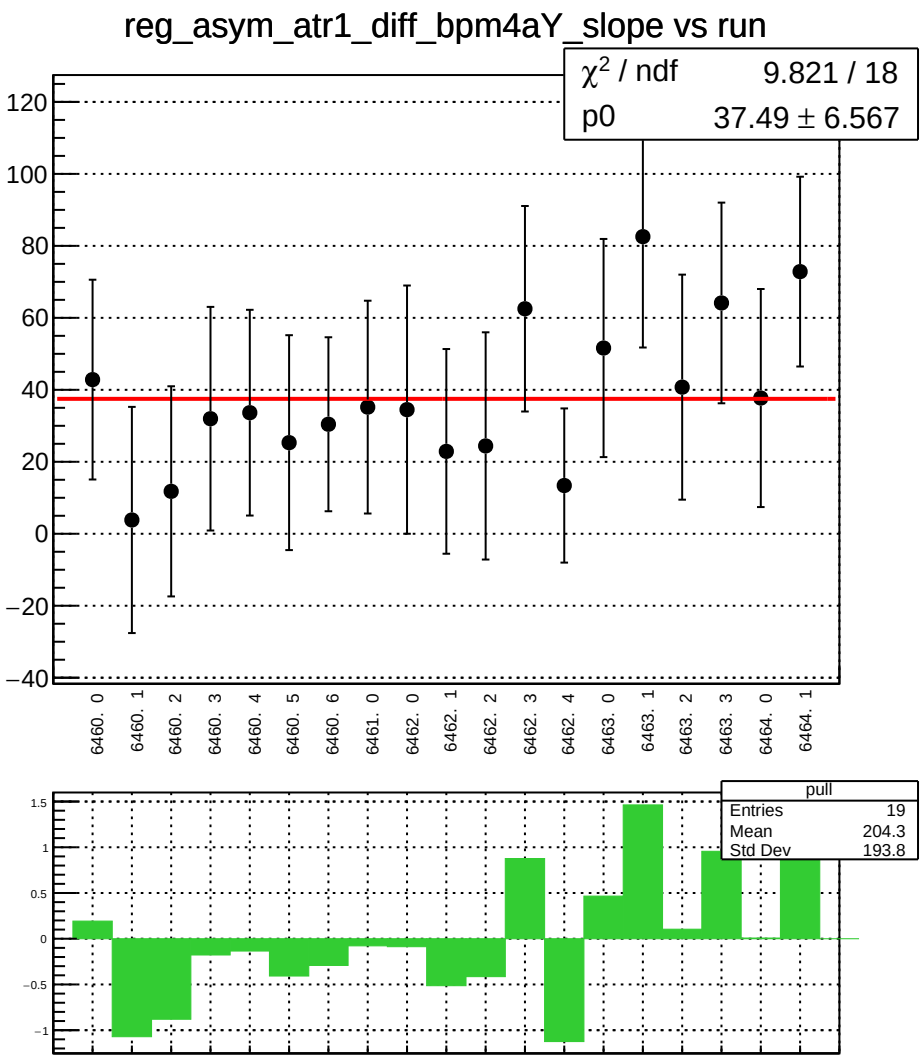

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 2.384 / 18
p0 375.4 ± 20.65
500
450
400
350
300
250
200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −87.36
Std Dev 93.54
0.4
0.2
0
−0.2
−0.4
−0.6

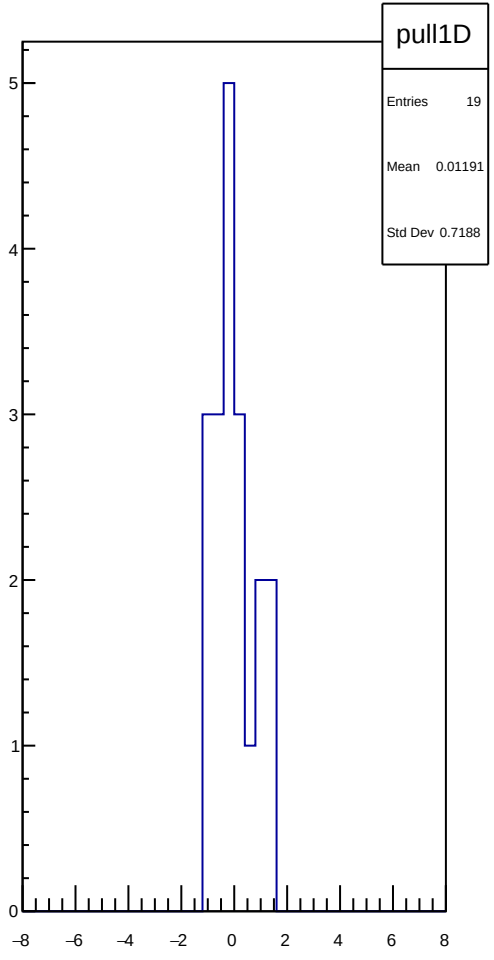

pull1D
Entries 19
Mean −0.002071
Std Dev 0.3542
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

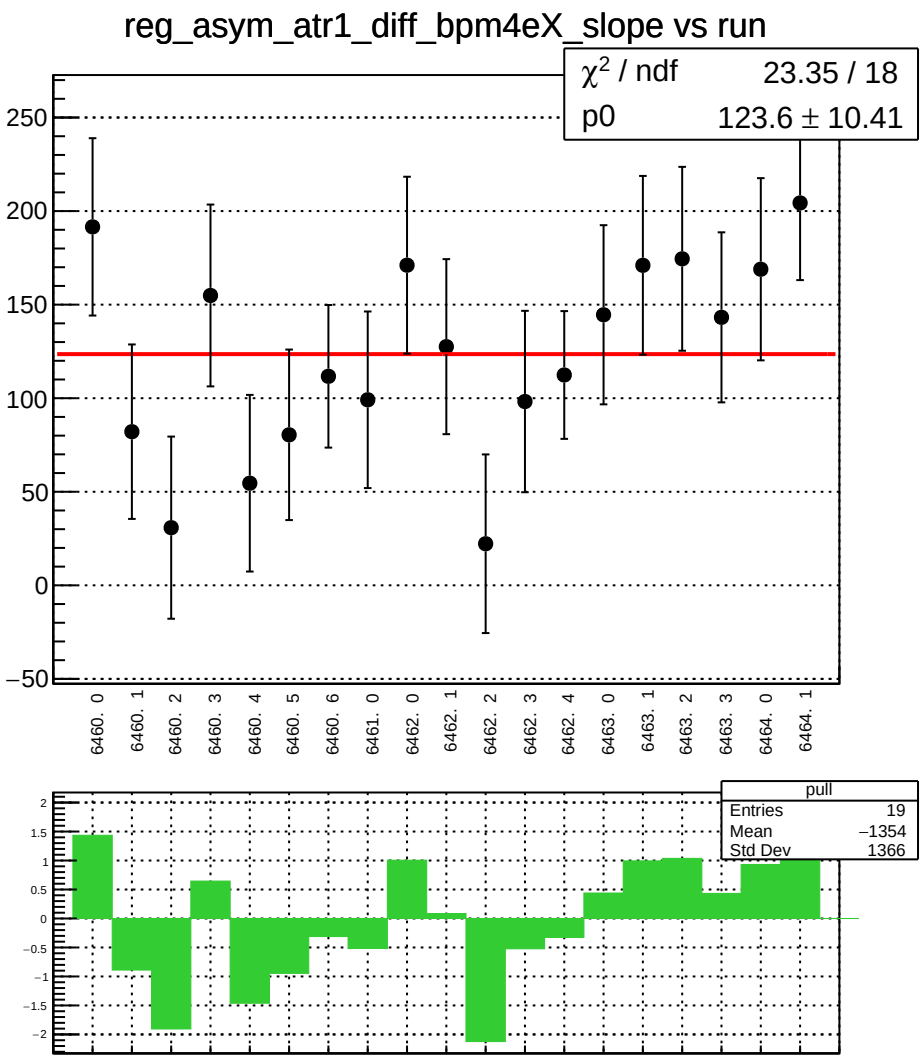

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 3.859 / 18
p0 −323.3 ± 0.8671
−316
−318
−320
−322
−324
−326
−328
−330
−332
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −205.5
Std Dev 216.7
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

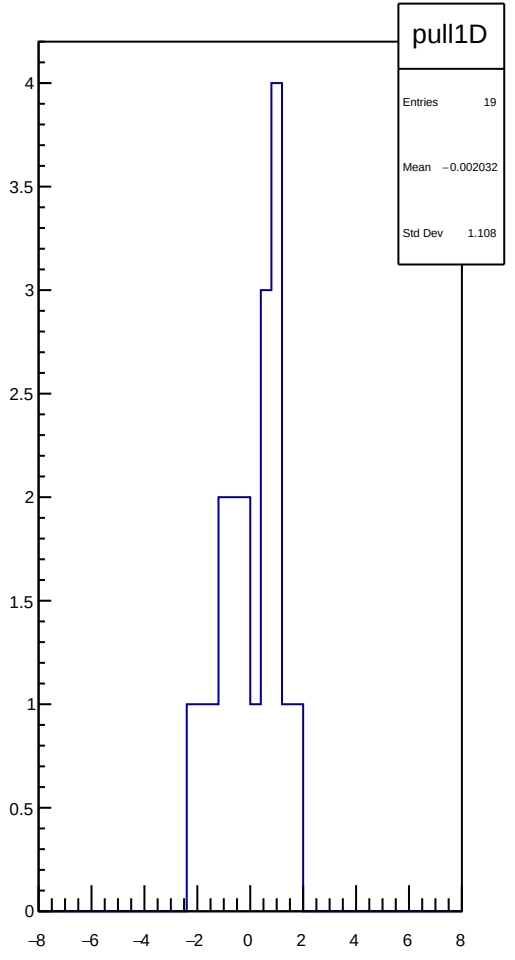

pull1D
Entries 19
Mean −0.006909
Std Dev 0.4506
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

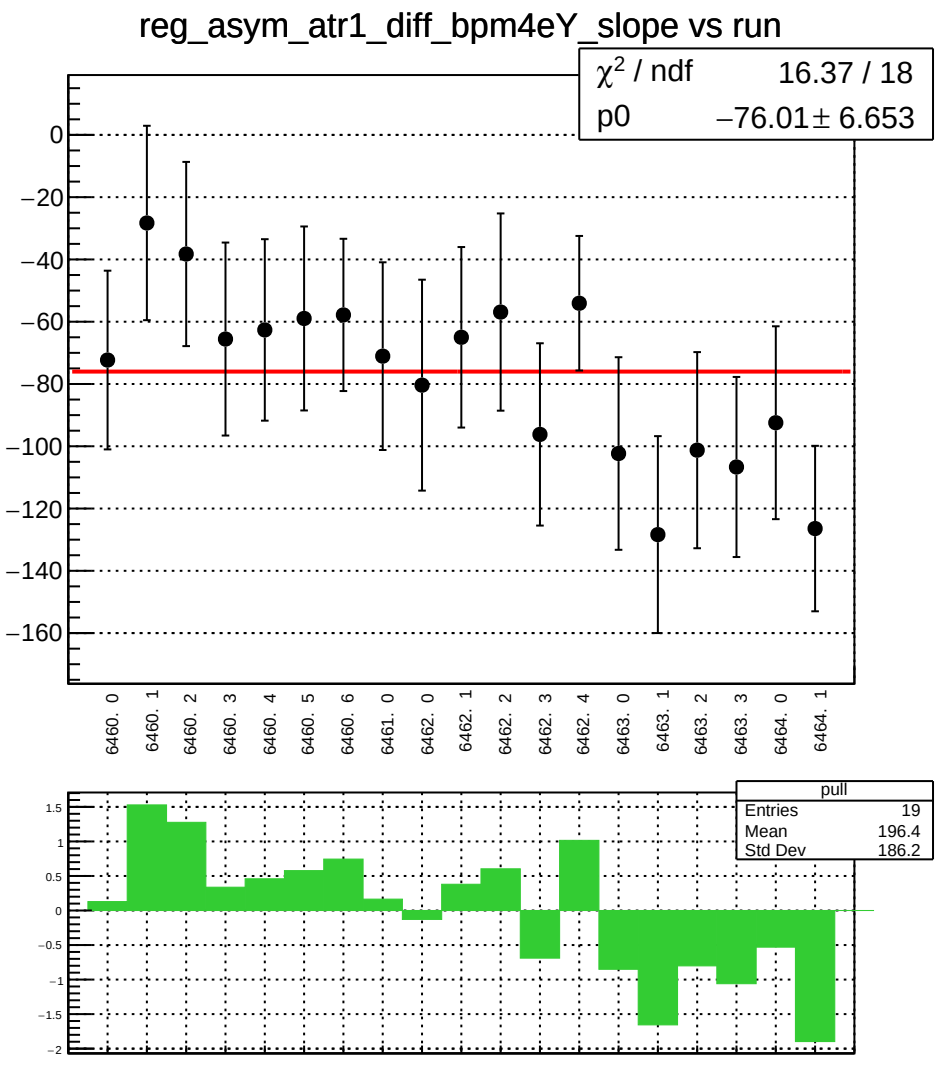

reg_asym_atr1_diff_bpm4aX_slope vs run
χ² / ndf 23.08 / 18
p0 −160.6 ± 9.661
0
−50
−100
−150
−200
−250
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −1453
Std Dev 1465
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 19
Mean 0.001847
Std Dev 1.102
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

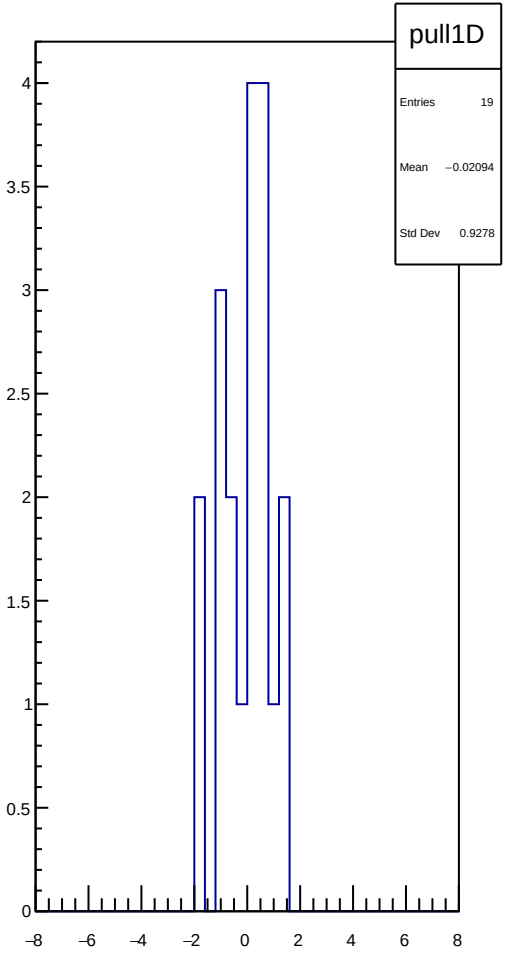

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 9.821 / 18
p0 37.49 ± 6.567
120
100
80
60
40
20
0
−20
−40
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 204.3
Std Dev 193.8
1.5
1
0.5
0
−0.5
−1

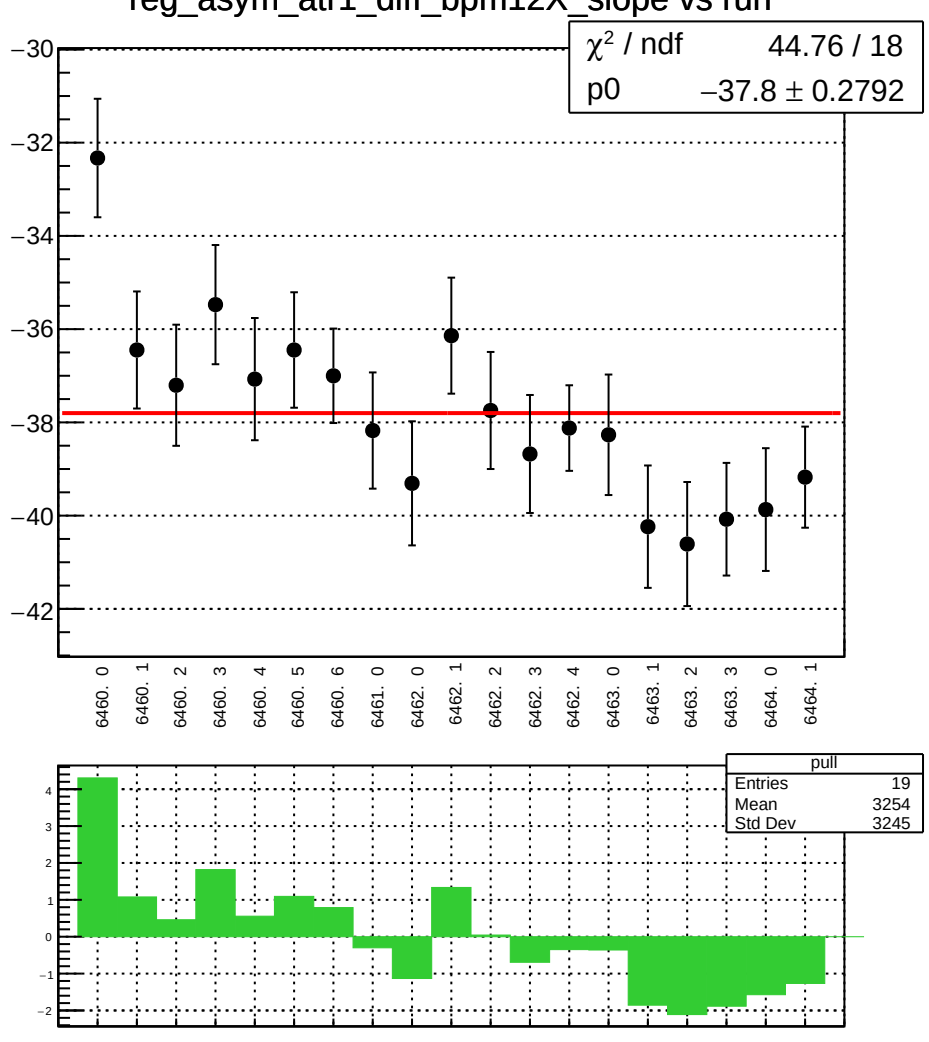

pull1D
Entries 19
Mean 0.01191
Std Dev 0.7188
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

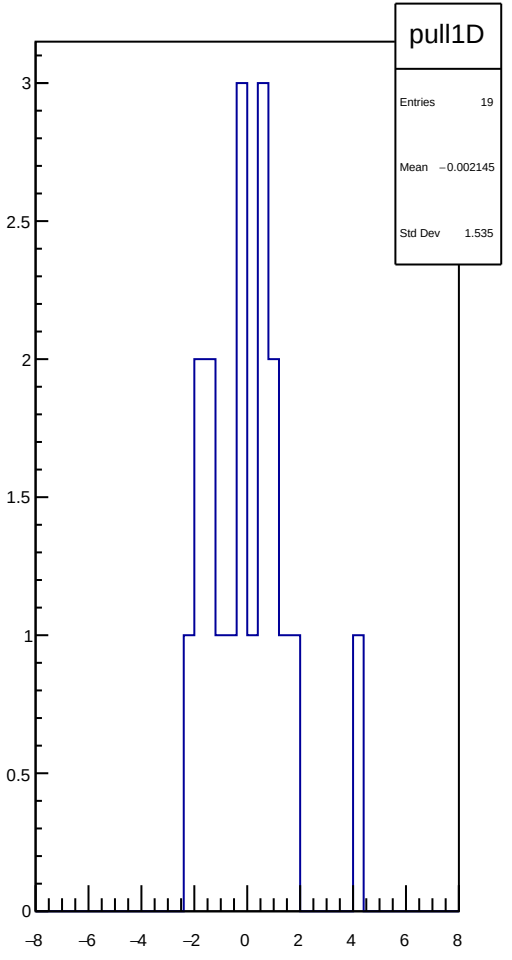

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 23.35 / 18
p0 123.6 ± 10.41
250
200
150
100
50
0
−50
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −1354
Std Dev 1366
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

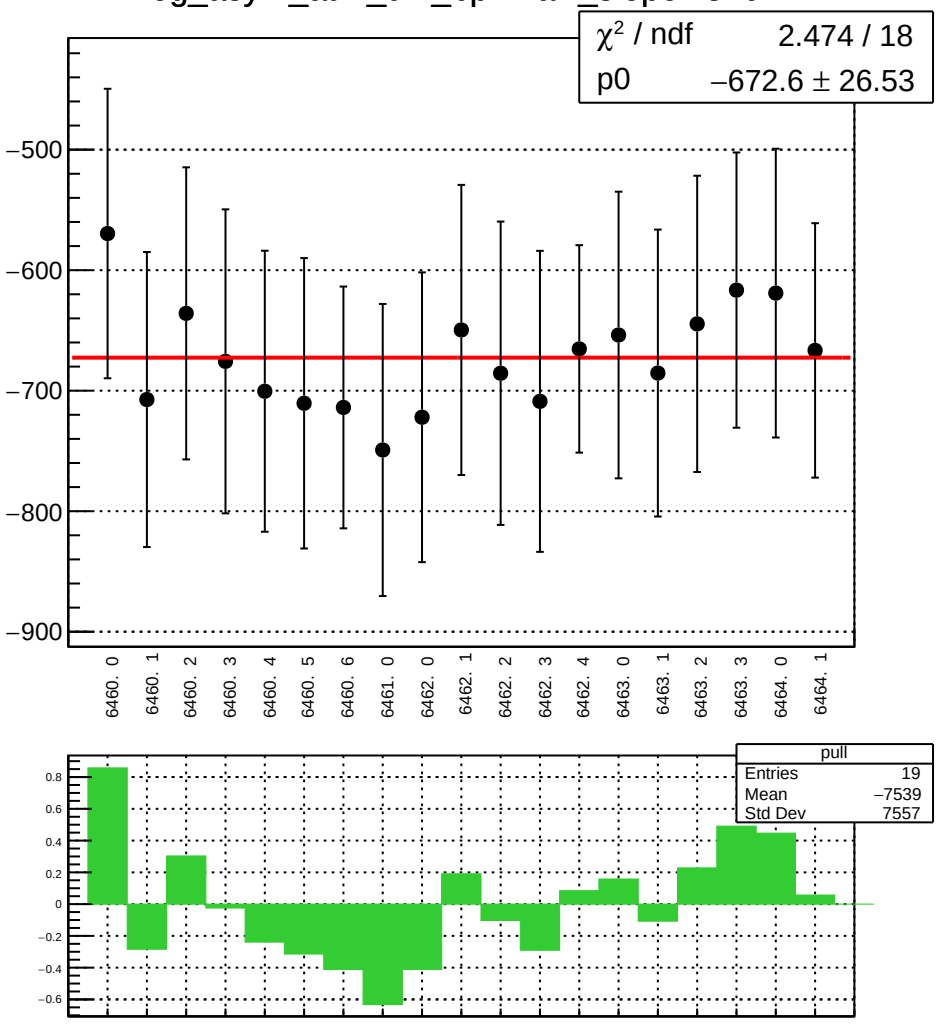

pull1D
Entries 19
Mean −0.002032
Std Dev 1.108
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

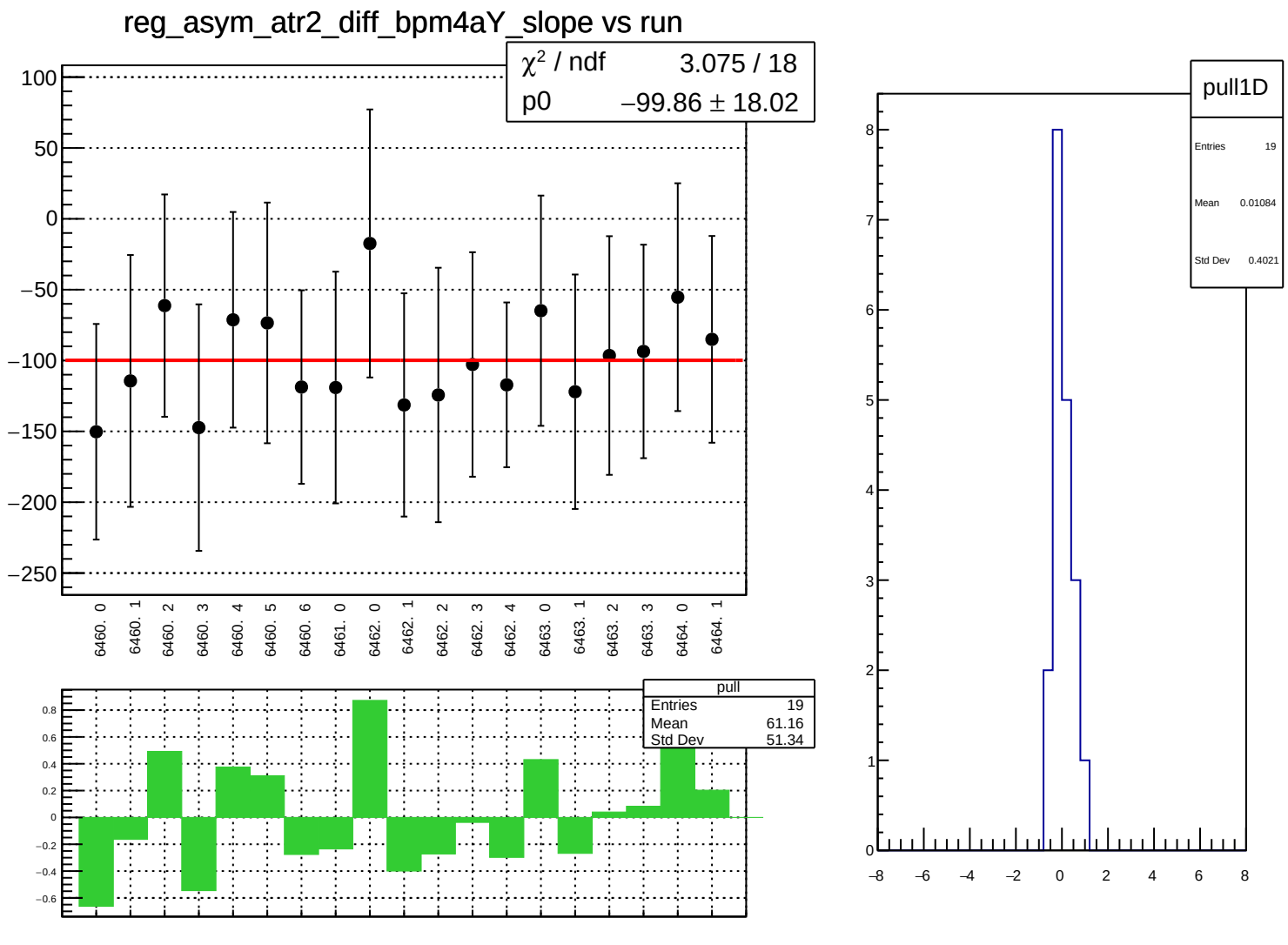

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 16.37 / 18
p0 −76.01 ± 6.653
0
−20
−40
−60
−80
−100
−120
−140
−160
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 196.4
Std Dev 186.2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

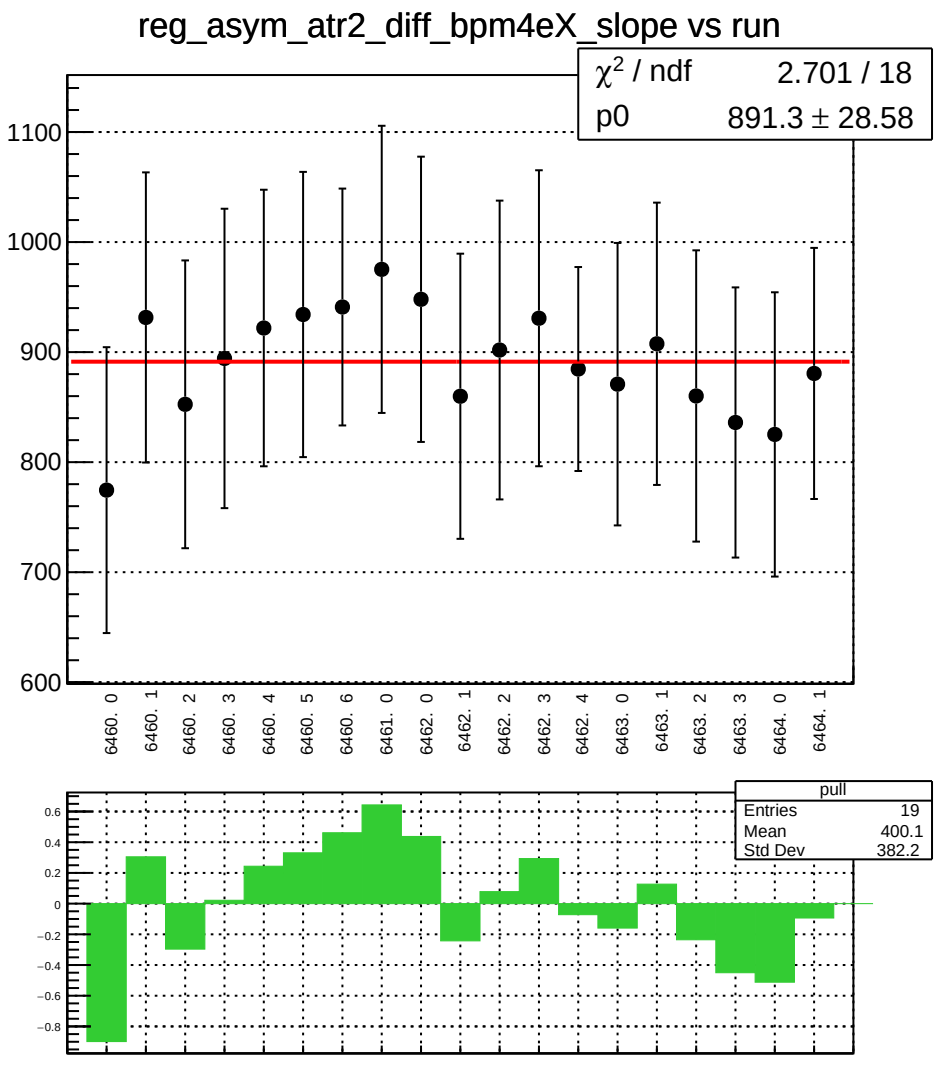

pull1D
Entries 19
Mean −0.02094
Std Dev 0.9278
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

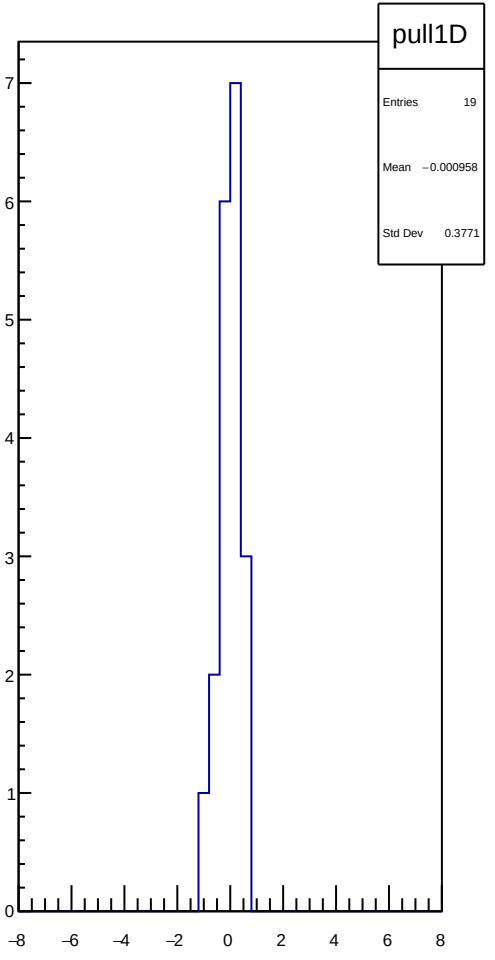

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 44.76 / 18
p0 −37.8 ± 0.2792
−30
−32
−34
−36
−38
−40
−42
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 3254
Std Dev 3245
4
3
2
1
0
−1
−2

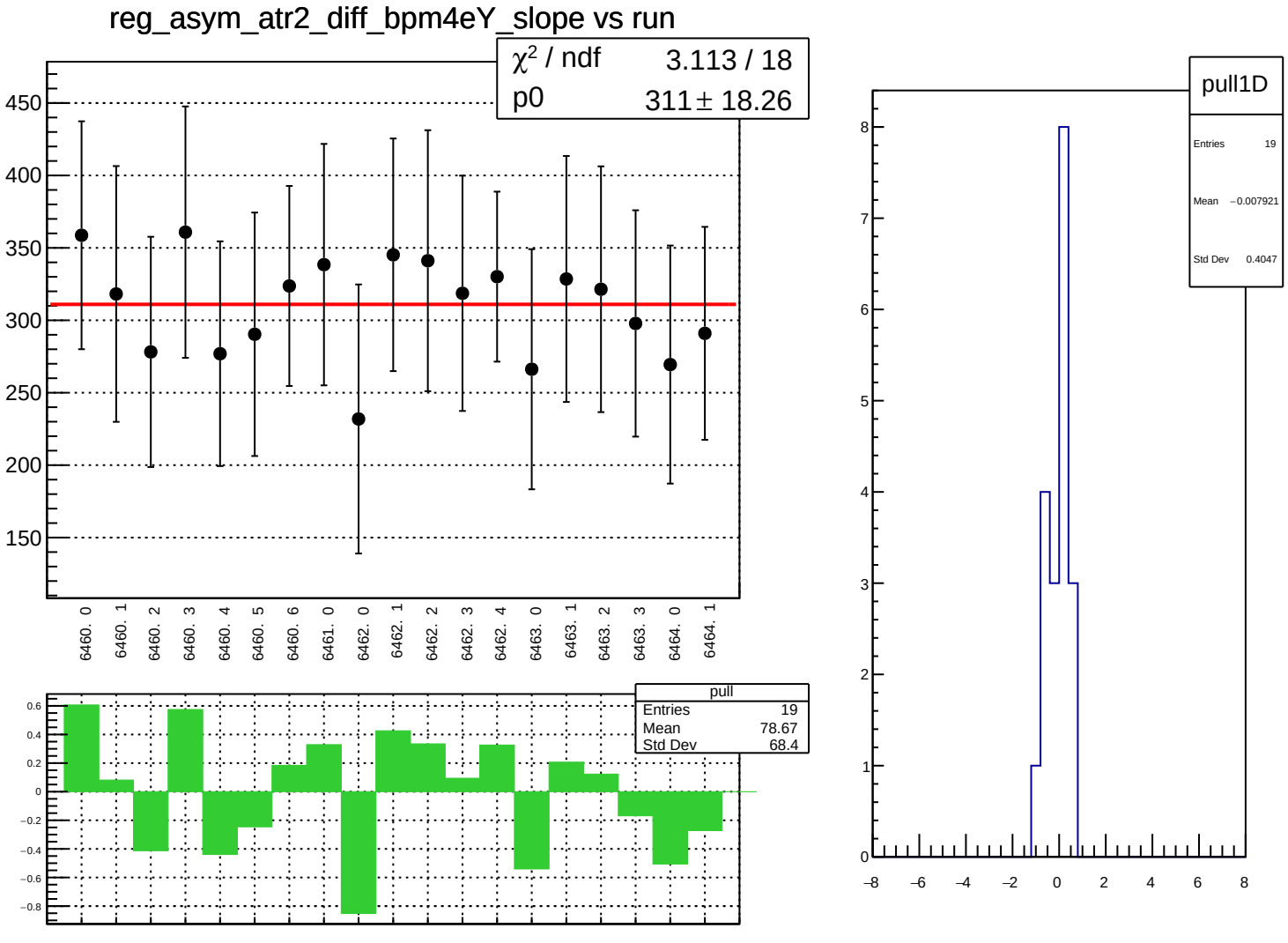

pull1D
Entries 19
Mean −0.002145
Std Dev 1.535
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

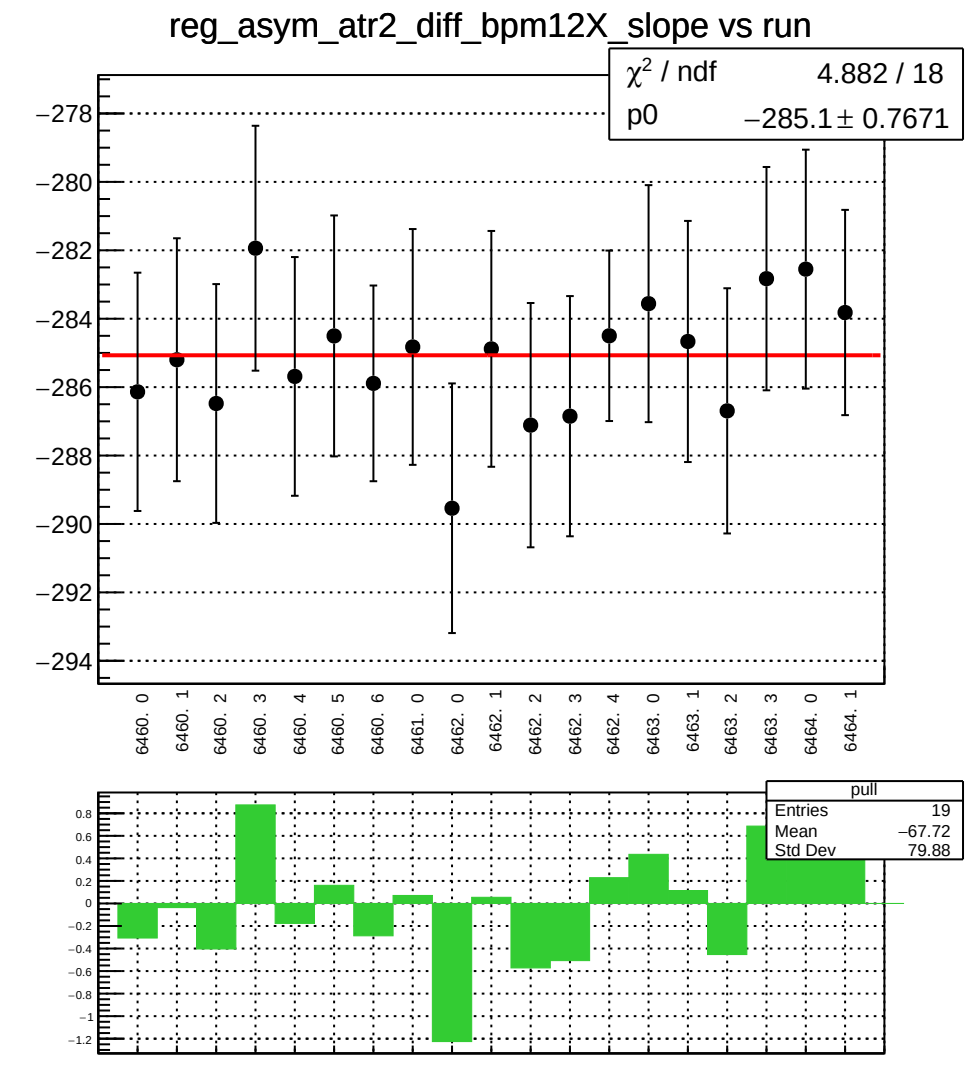

reg_asym_atr2_diff_bpm4aX_slope vs run
χ² / ndf 2.474 / 18
p0 −672.6 ± 26.53
−500
−600
−700
−800
−900
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −7539
Std Dev 7557
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 19
Mean −4.53e−05
Std Dev 0.3608
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

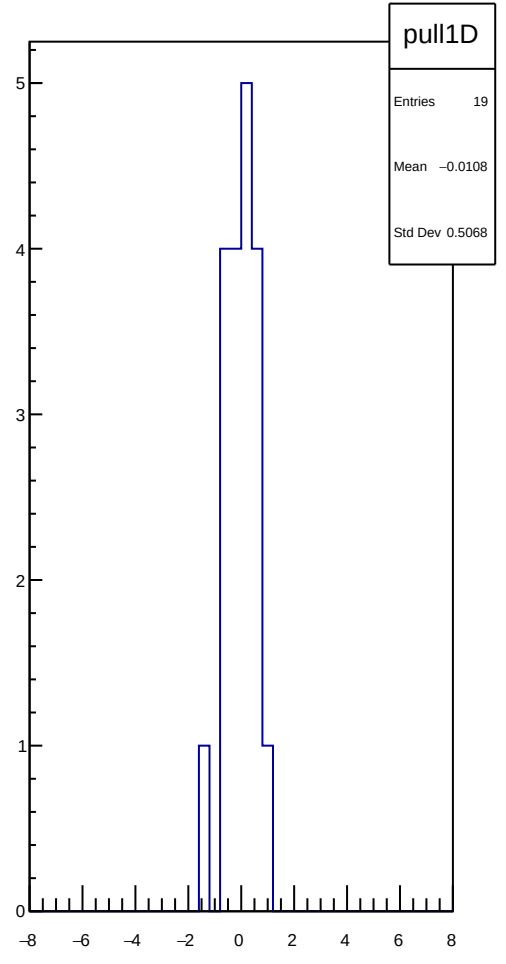

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 3.075 / 18
p0 −99.86 ± 18.02
100
50
0
−50
−100
−150
−200
−250
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 61.16
Std Dev 51.34
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 19
Mean 0.01084
Std Dev 0.4021
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

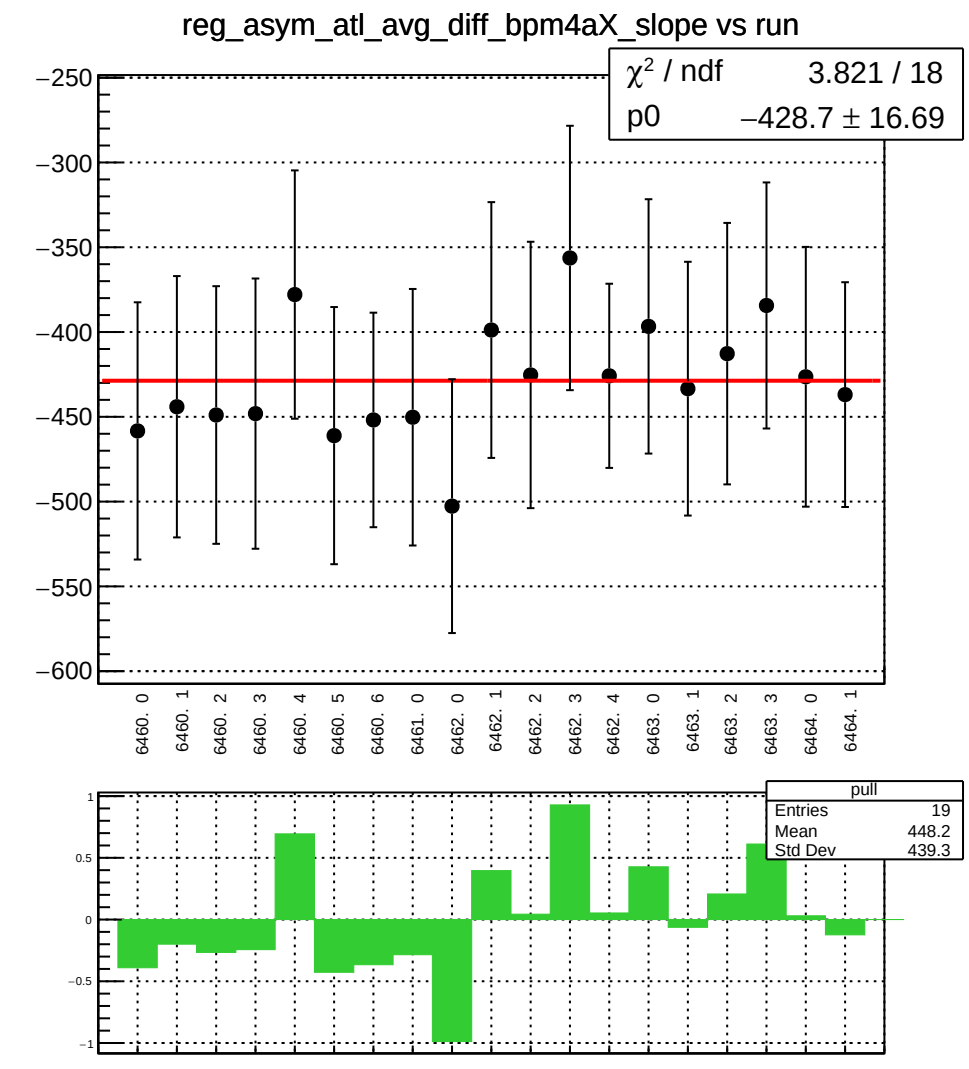

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 2.701 / 18
p0 891.3 ± 28.58
1100
1000
900
800
700
600
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 400.1
Std Dev 382.2
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

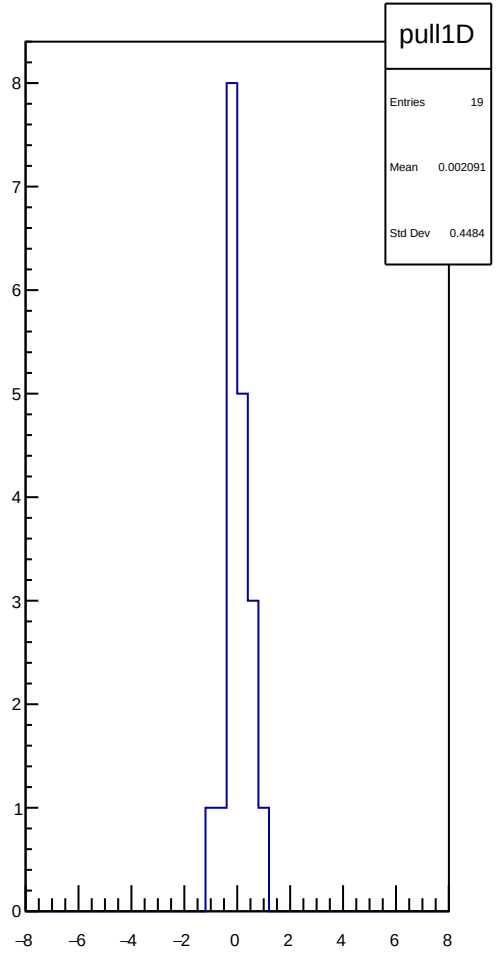

pull1D
Entries 19
Mean −0.000958
Std Dev 0.3771
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

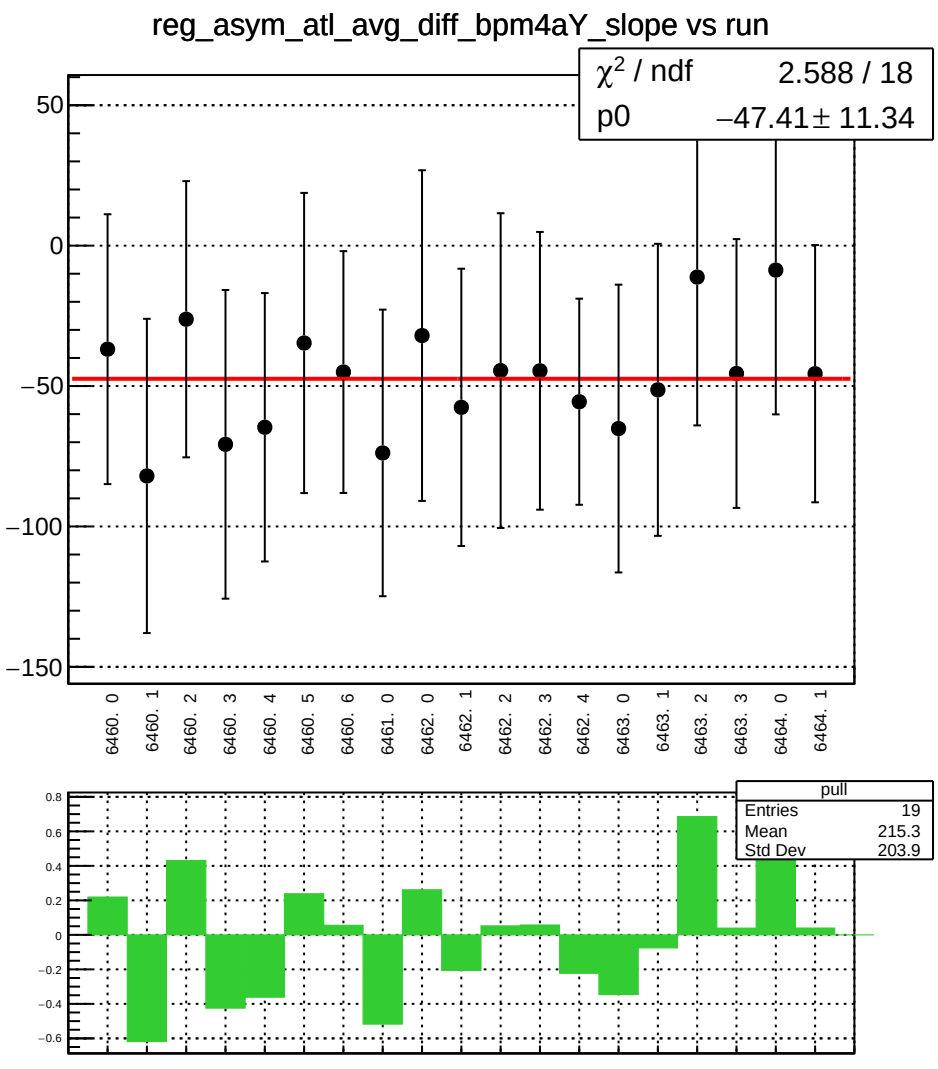

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 3.113 / 18
p0 311 ± 18.26
450
400
350
300
250
200
150
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 78.67
Std Dev 68.4
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 19
Mean −0.007921
Std Dev 0.4047
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

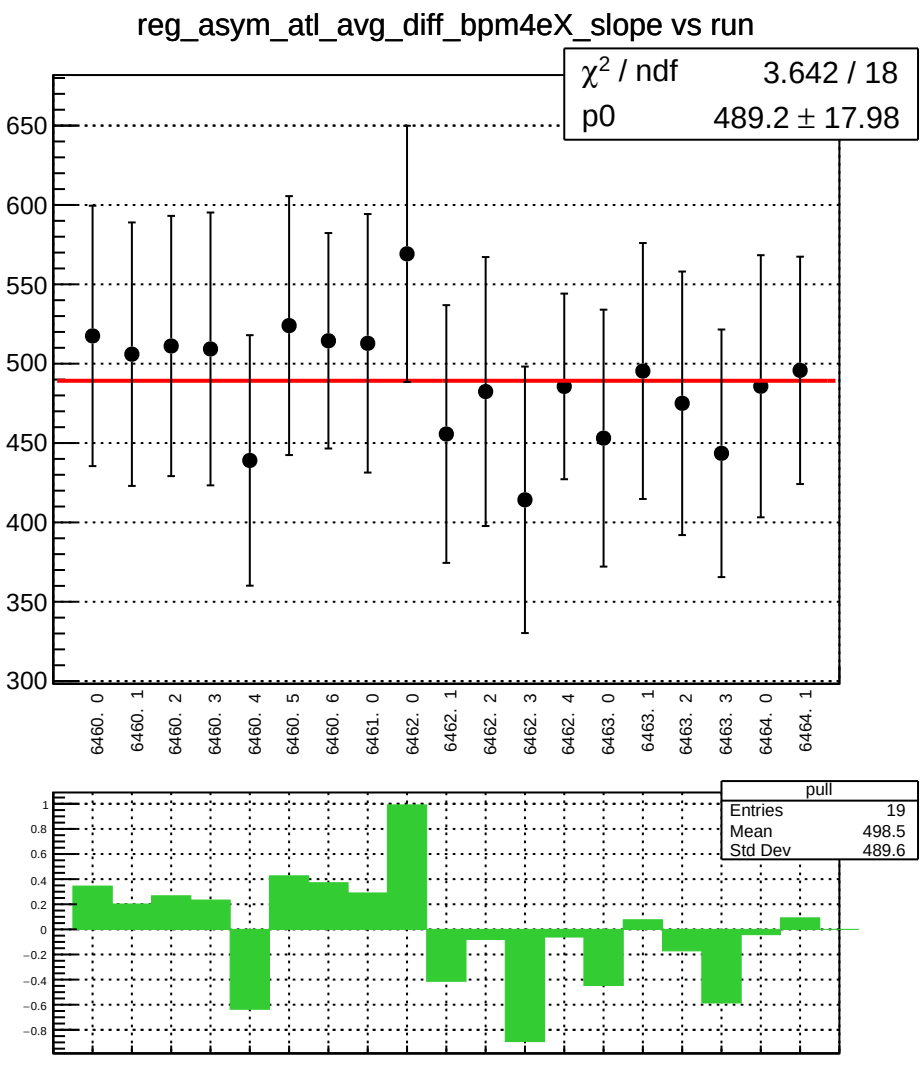

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 4.882 / 18
p0 −285.1 ± 0.7671
−278
−280
−282
−284
−286
−288
−290
−292
−294
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −67.72
Std Dev 79.88
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

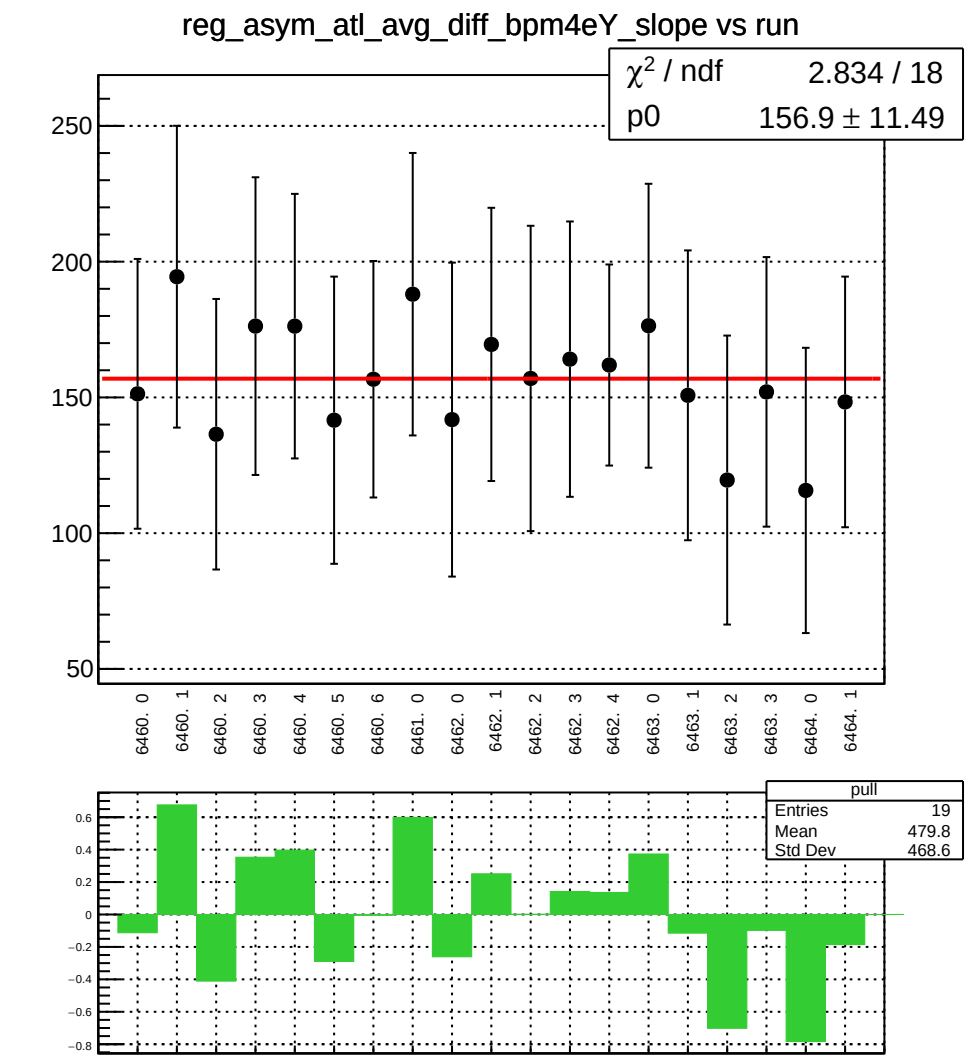

pull1D
Entries 19
Mean −0.0108
Std Dev 0.5068
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

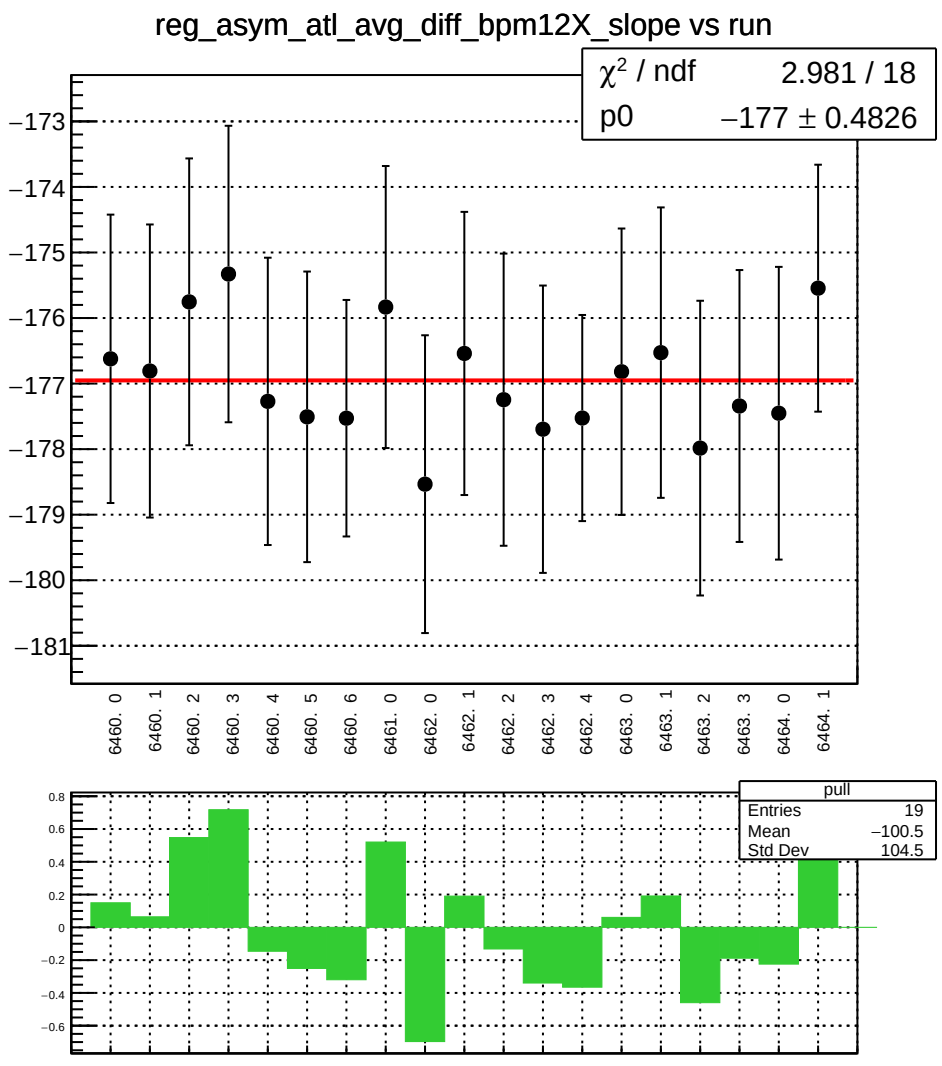

reg_asym_atl_avg_diff_bpm4aX_slope vs run
χ² / ndf 3.821 / 18
p0 −428.7 ± 16.69
−250
−300
−350
−400
−450
−500
−550
−600
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 448.2
Std Dev 439.3
1
0.5
0
−0.5
−1

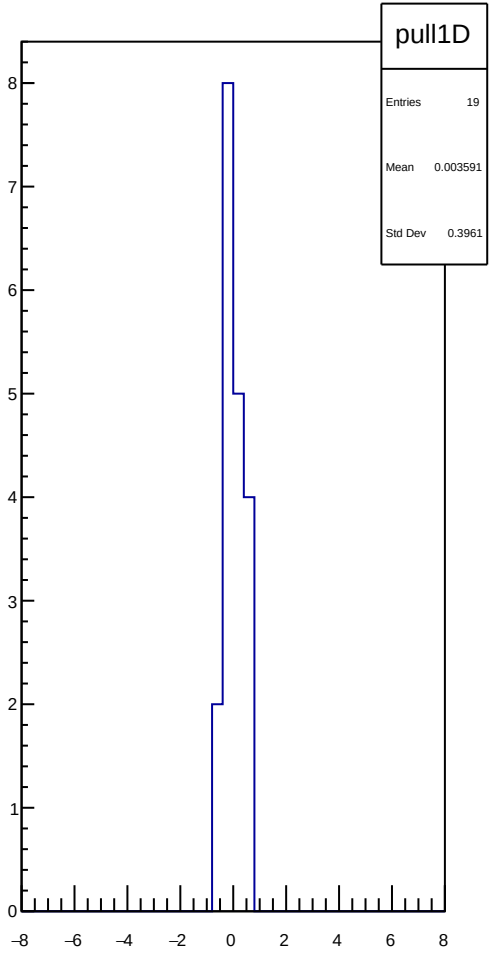

pull1D
Entries 19
Mean 0.002091
Std Dev 0.4484
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

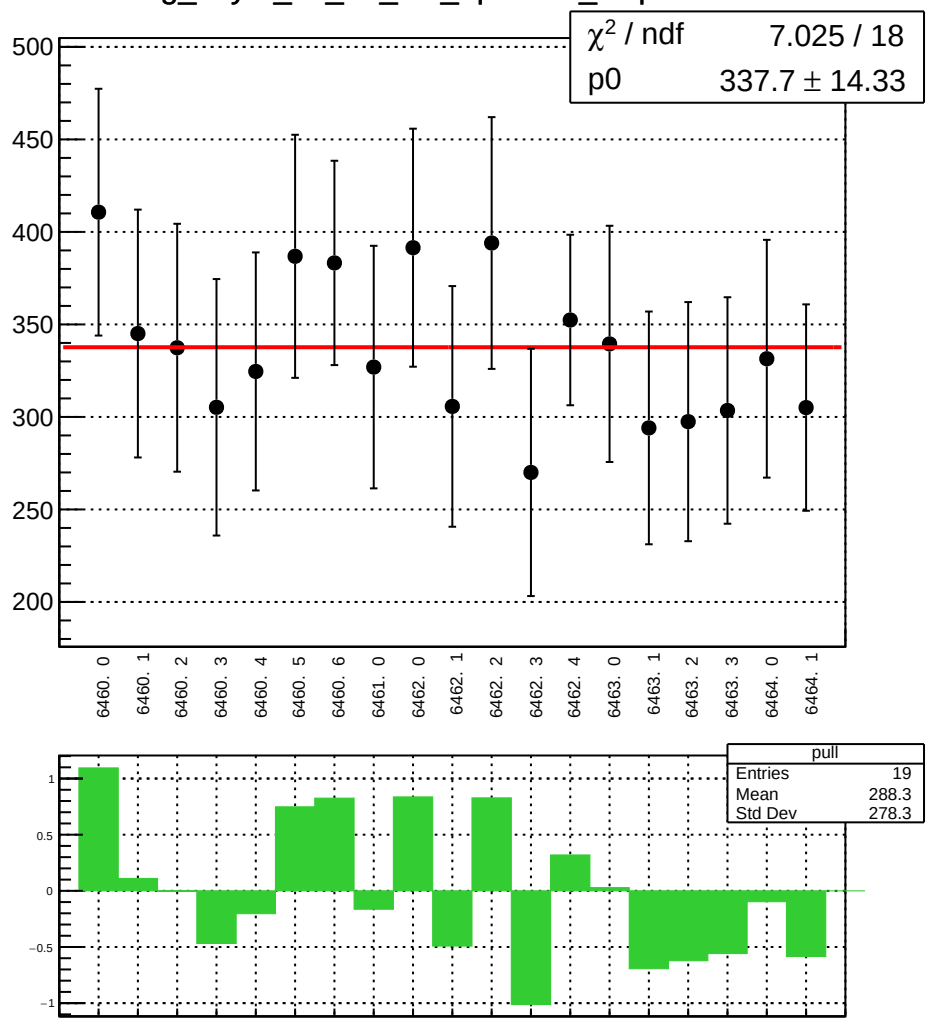

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.588 / 18
p0 −47.41 ± 11.34
50
0
−50
−100
−150
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 215.3
Std Dev 203.9
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 19
Mean 0.00319
Std Dev 0.369
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

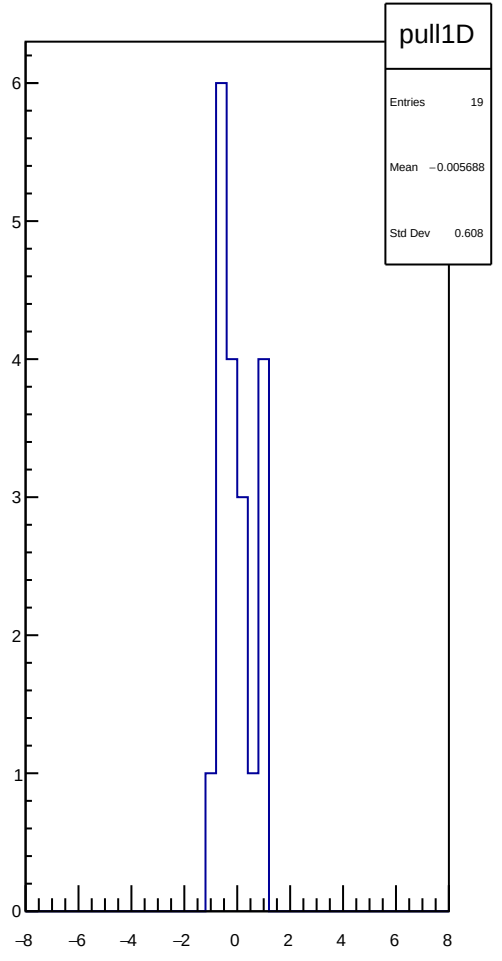

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.642 / 18
p0 489.2 ± 17.98
650
600
550
500
450
400
350
300
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 498.5
Std Dev 489.6
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 19
Mean −0.001861
Std Dev 0.4378
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

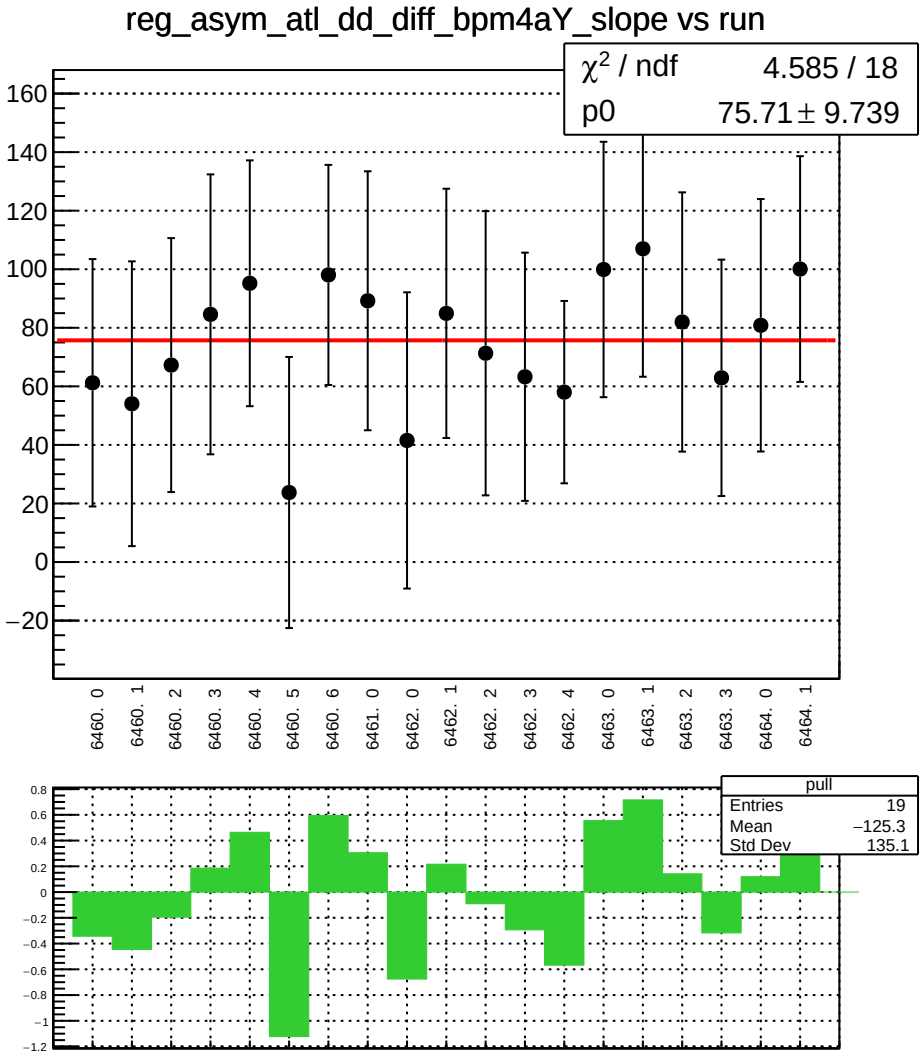

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.834 / 18
p0 156.9 ± 11.49
250
200
150
100
50
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 479.8
Std Dev 468.6
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 19
Mean −0.001859
Std Dev 0.3862
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

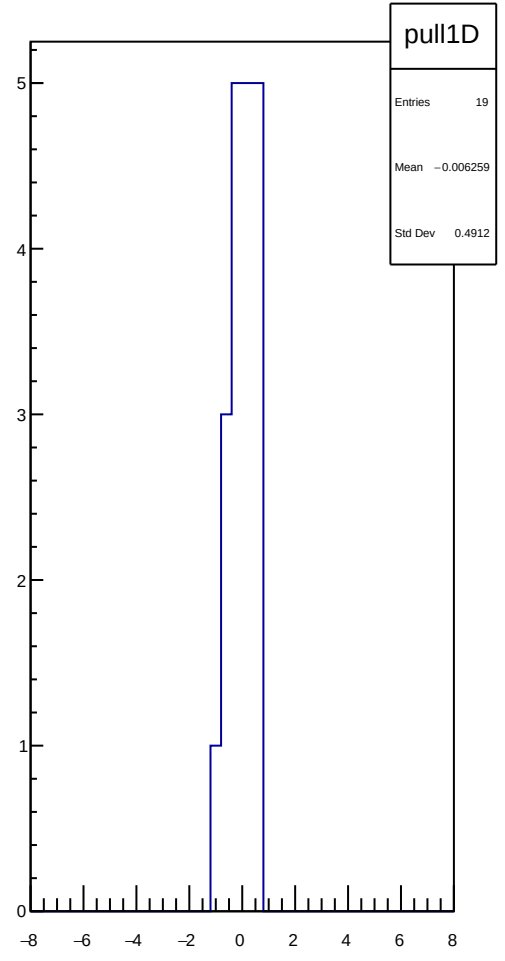

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 2.981 / 18
p0 −177 ± 0.4826
−173
−174
−175
−176
−177
−178
−179
−180
−181
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −100.5
Std Dev 104.5
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

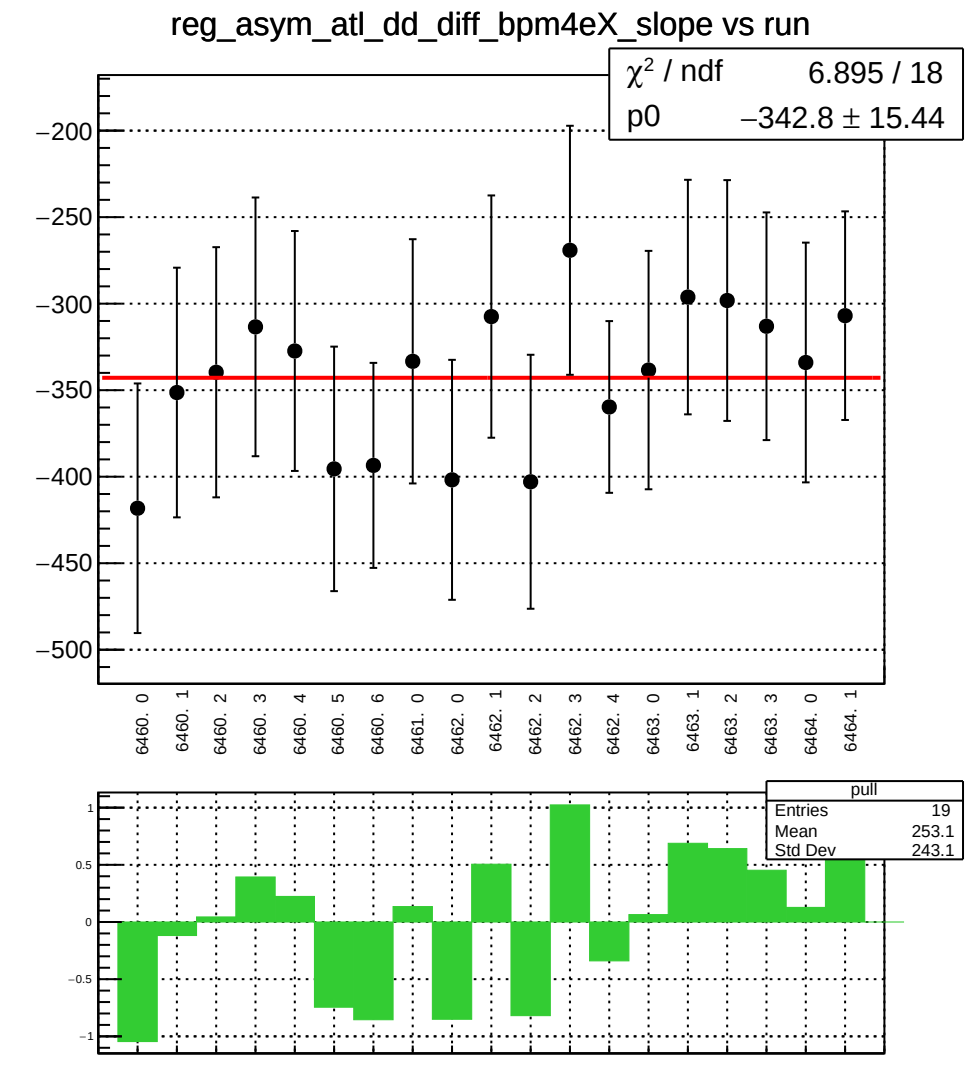

pull1D
Entries 19
Mean 0.003591
Std Dev 0.3961
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

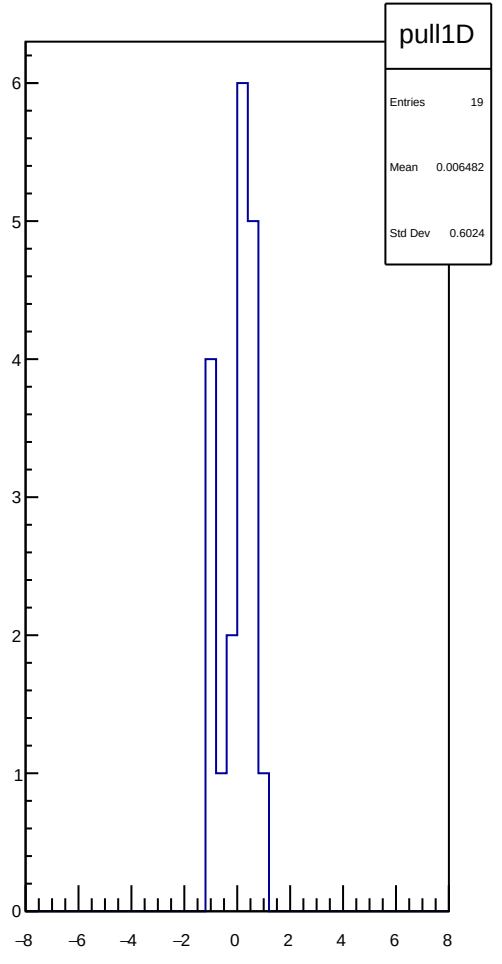

reg_asym_atl_dd_diff_bpm4aX_slope vs run
χ² / ndf 7.025 / 18
p0 337.7 ± 14.33
500
450
400
350
300
250
200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 288.3
Std Dev 278.3
1
0.5
0
−0.5
−1

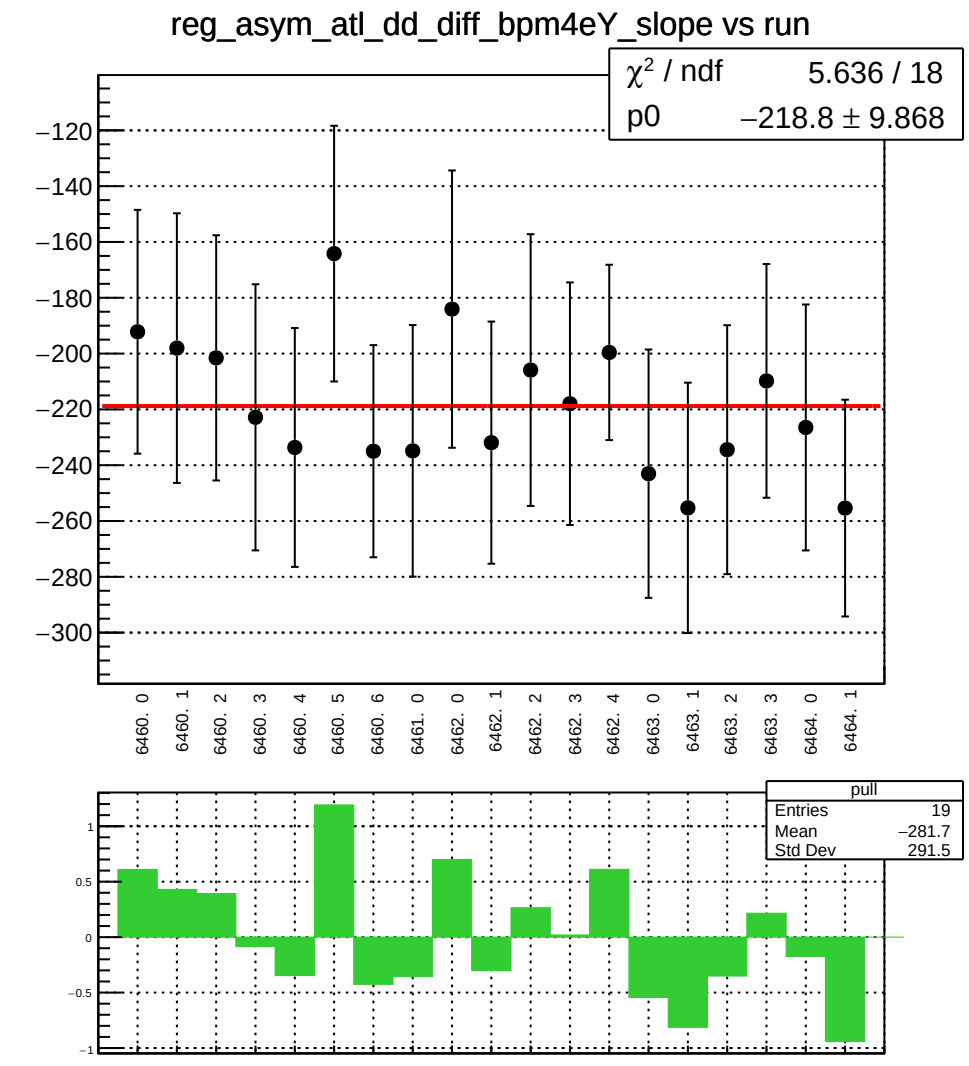

pull1D
Entries 19
Mean −0.005688
Std Dev 0.608
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

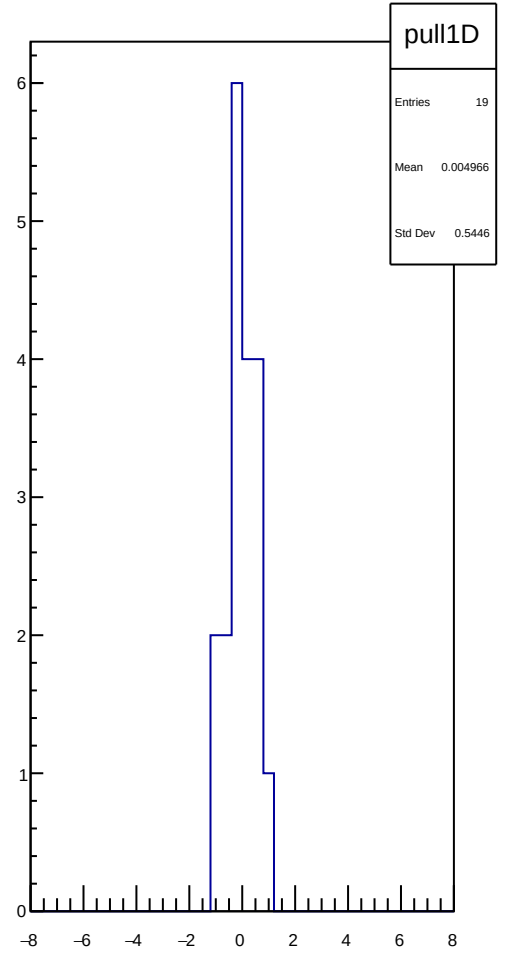

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.585 / 18
p0 75.71 ± 9.739
160
140
120
100
80
60
40
20
0
−20
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −125.3
Std Dev 135.1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

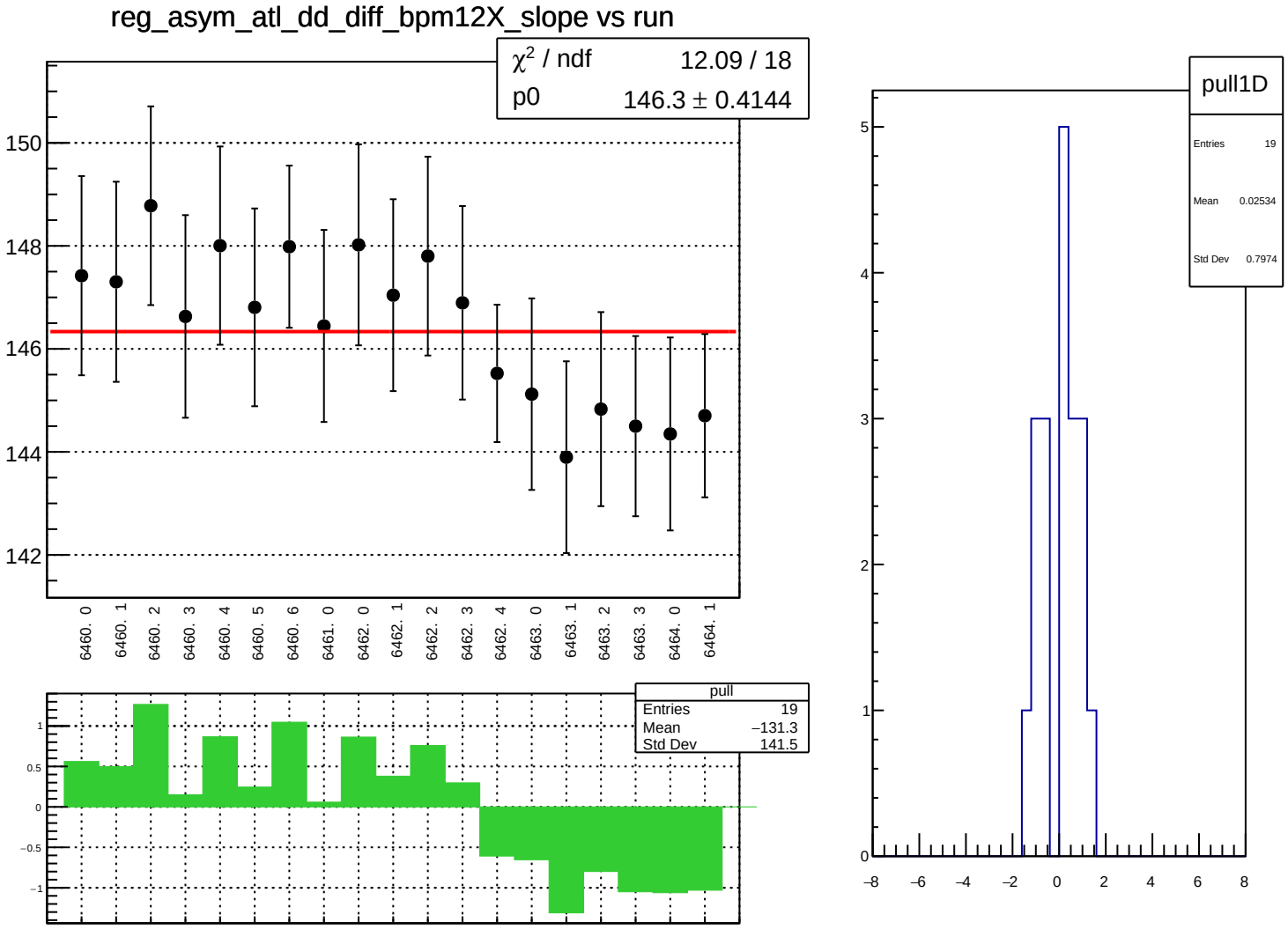

pull1D
Entries 19
Mean −0.006259
Std Dev 0.4912
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

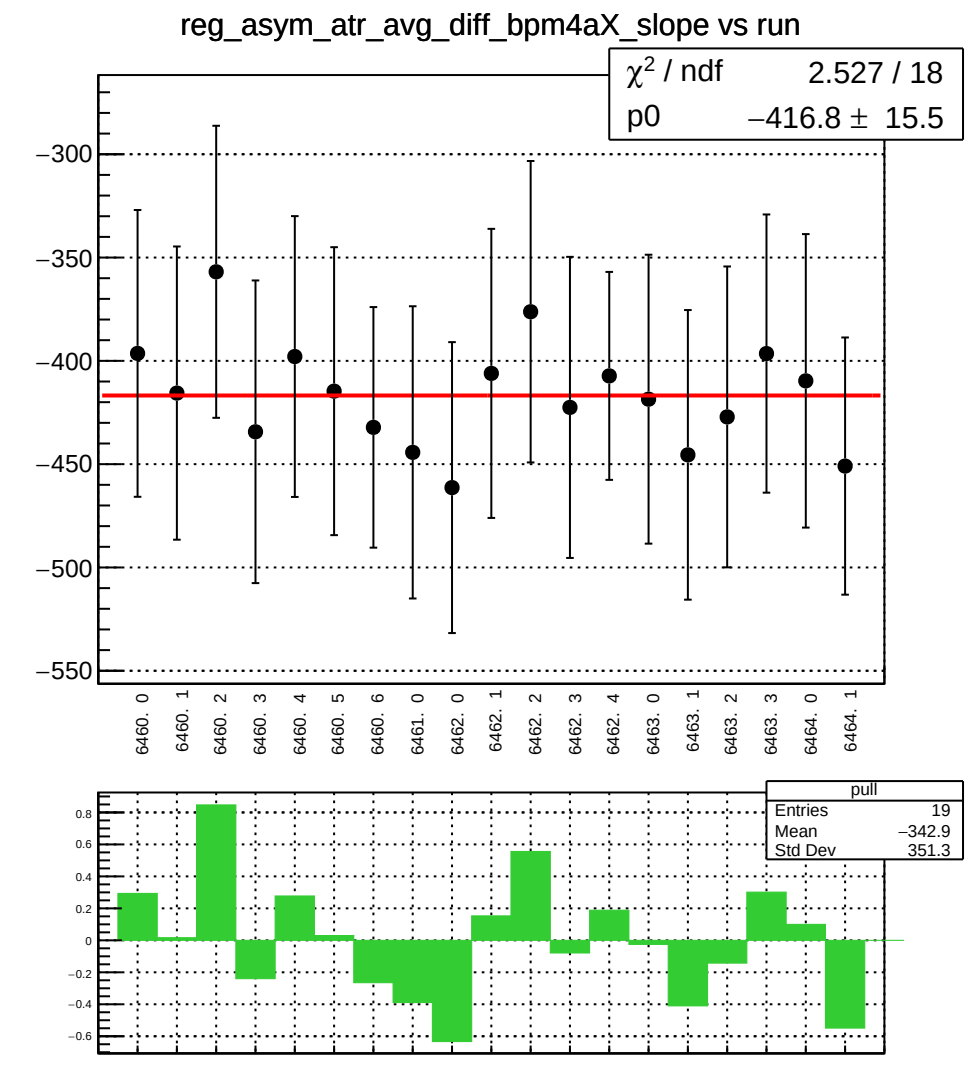

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.895 / 18
p0 −342.8 ± 15.44
−200
−250
−300
−350
−400
−450
−500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 253.1
Std Dev 243.1
1
0.5
0
−0.5
−1

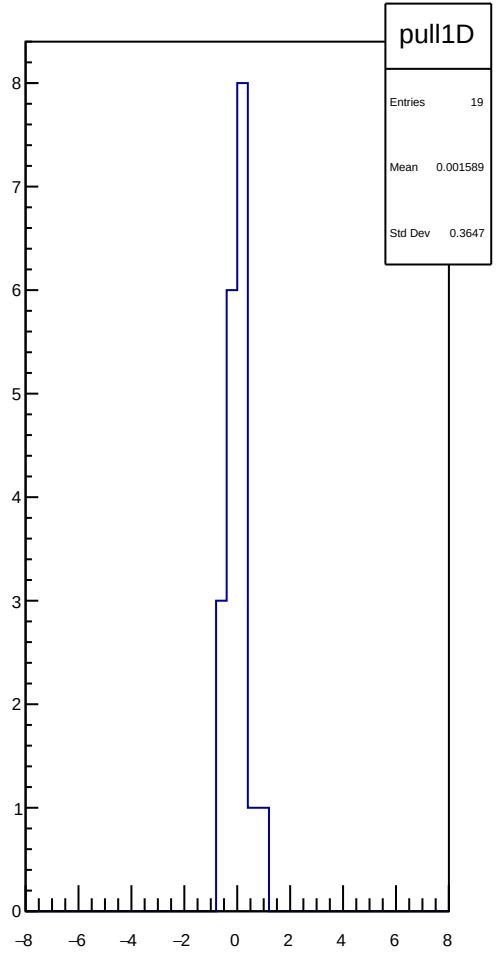

pull1D
Entries 19
Mean 0.006482
Std Dev 0.6024
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

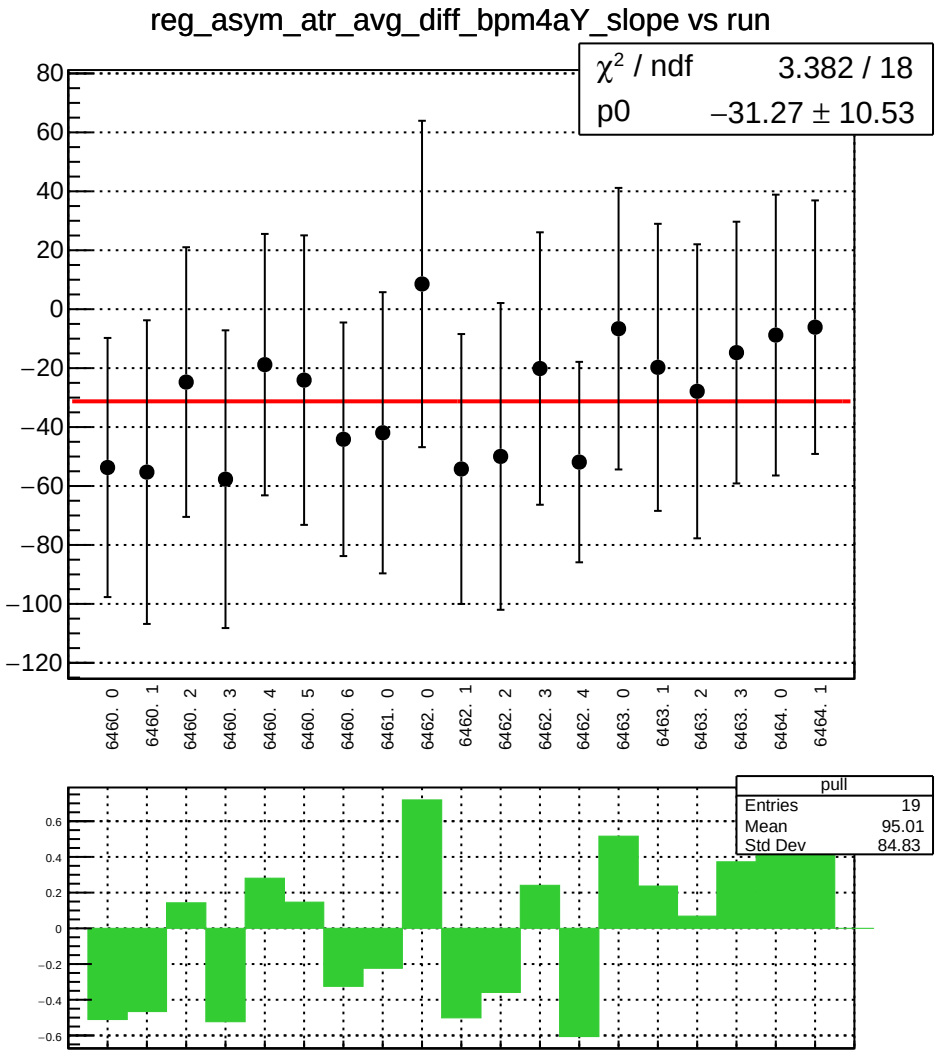

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.636 / 18
p0 −218.8 ± 9.868
−120
−140
−160
−180
−200
−220
−240
−260
−280
−300
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −281.7
Std Dev 291.5
1
0.5
0
−0.5
−1

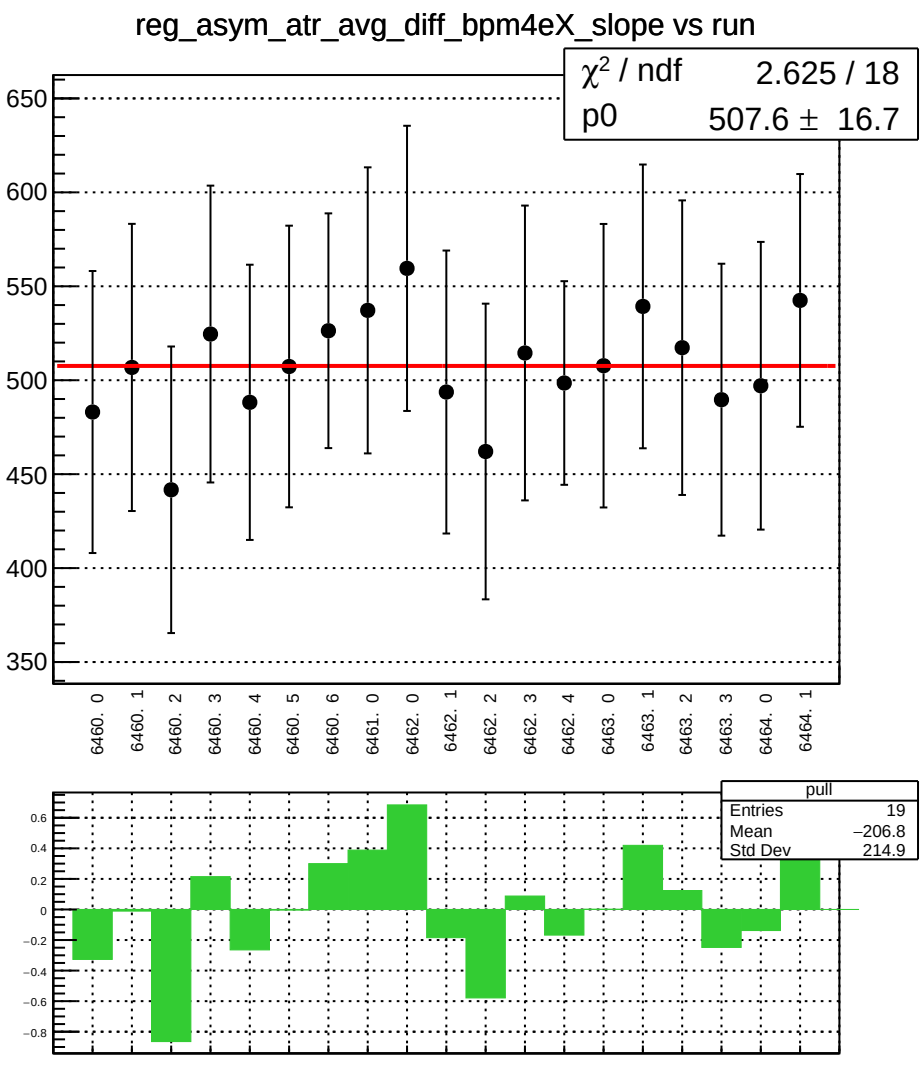

pull1D
Entries 19
Mean 0.004966
Std Dev 0.5446
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

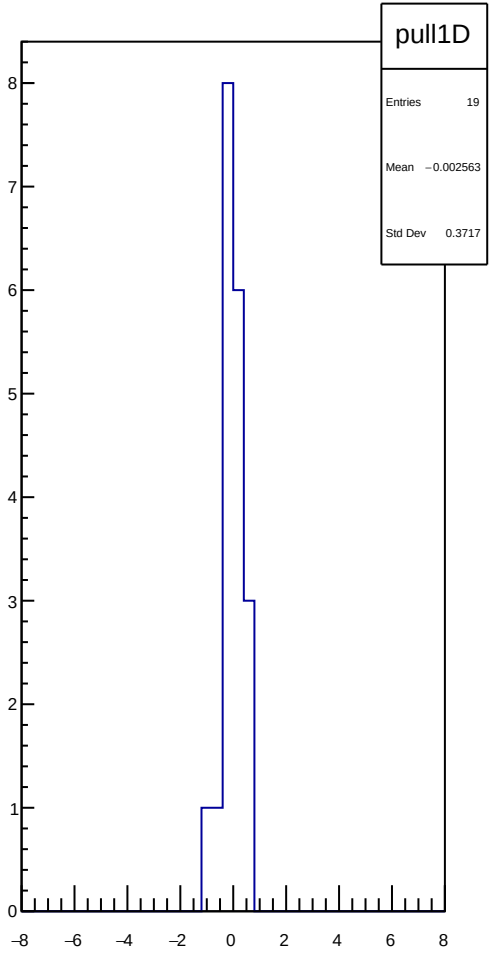

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 12.09 / 18
p0 146.3 ± 0.4144
150
148
146
144
142
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −131.3
Std Dev 141.5
1
0.5
0
−0.5
−1
pull1D
Entries 19
Mean 0.02534
Std Dev 0.7974
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

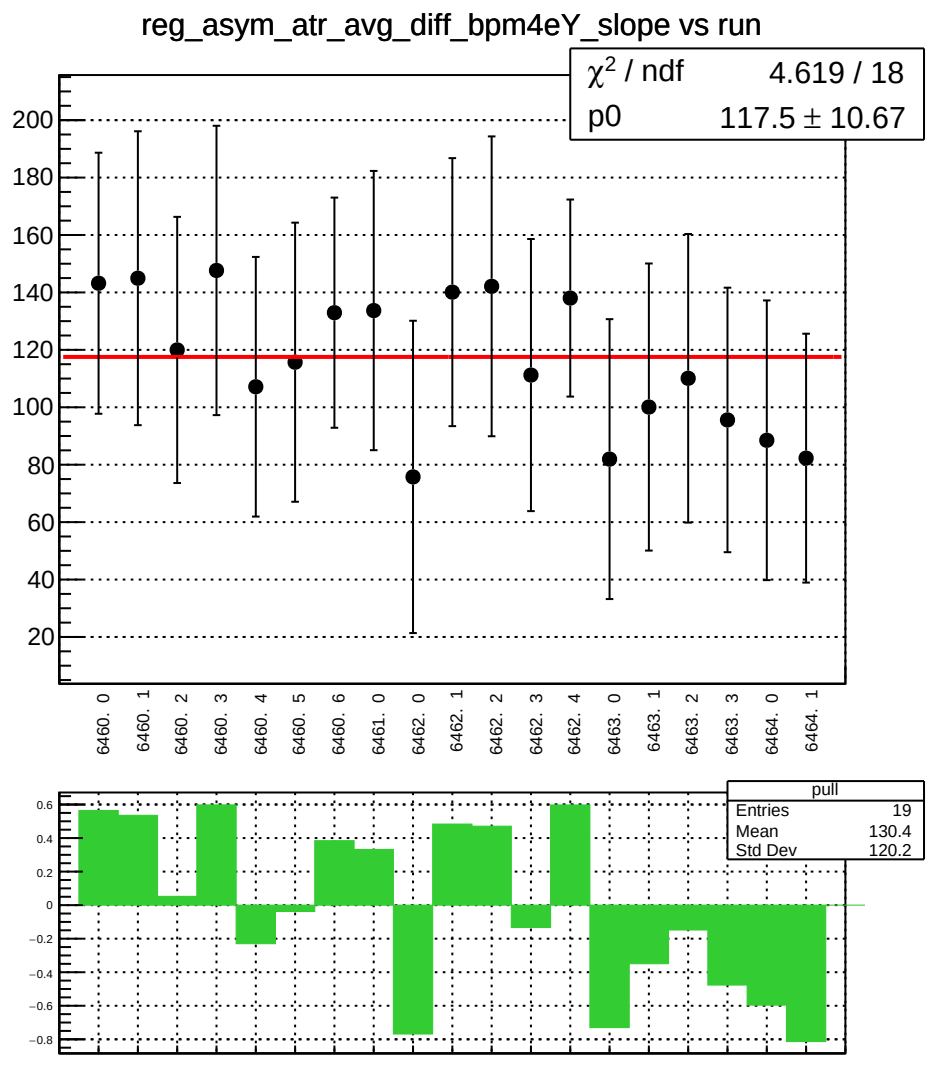

reg_asym_atr_avg_diff_bpm4aX_slope vs run
χ² / ndf 2.527 / 18
p0 −416.8 ± 15.5
−300
−350
−400
−450
−500
−550
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −342.9
Std Dev 351.3
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

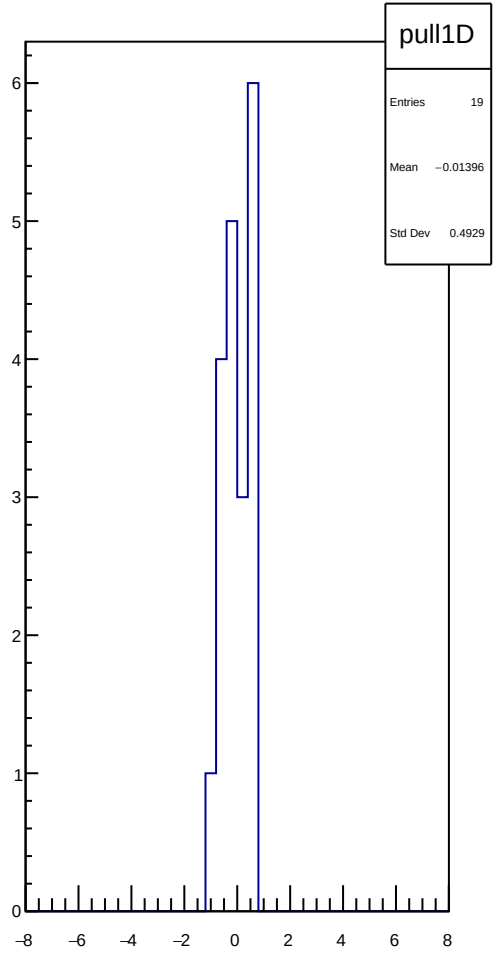

pull1D
Entries 19
Mean 0.001589
Std Dev 0.3647
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

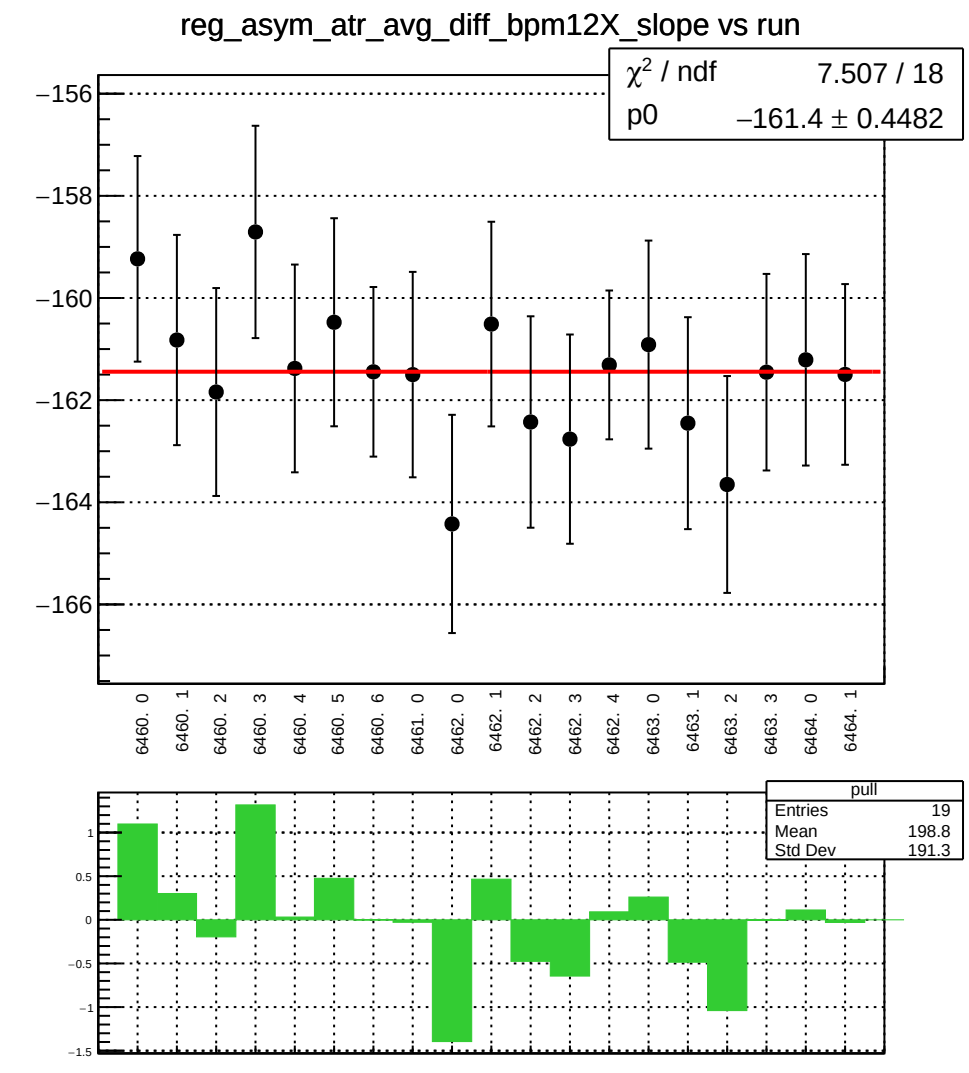

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.382 / 18
p0 −31.27 ± 10.53
80
60
40
20
0
−20
−40
−60
−80
−100
−120
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 95.01
Std Dev 84.83
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 19
Mean 0.01403
Std Dev 0.4216
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

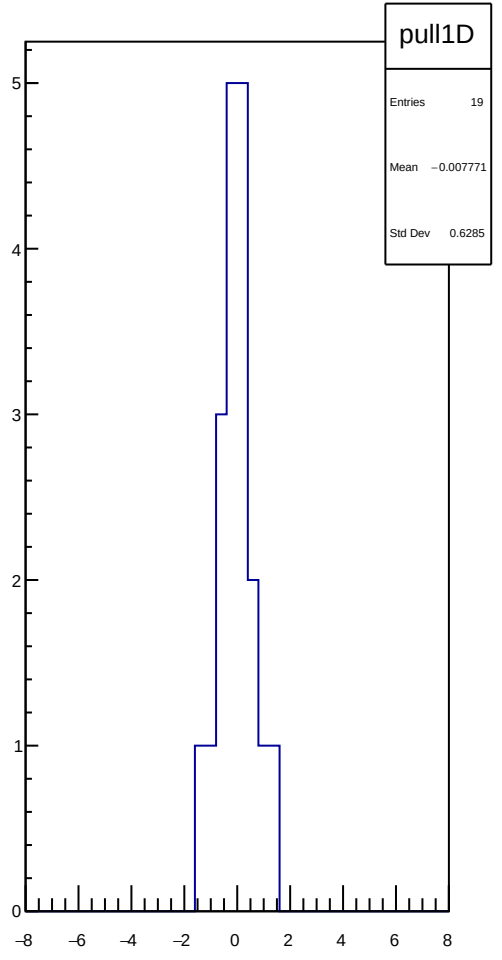

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.625 / 18
p0 507.6 ± 16.7
650
600
550
500
450
400
350
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −206.8
Std Dev 214.9
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

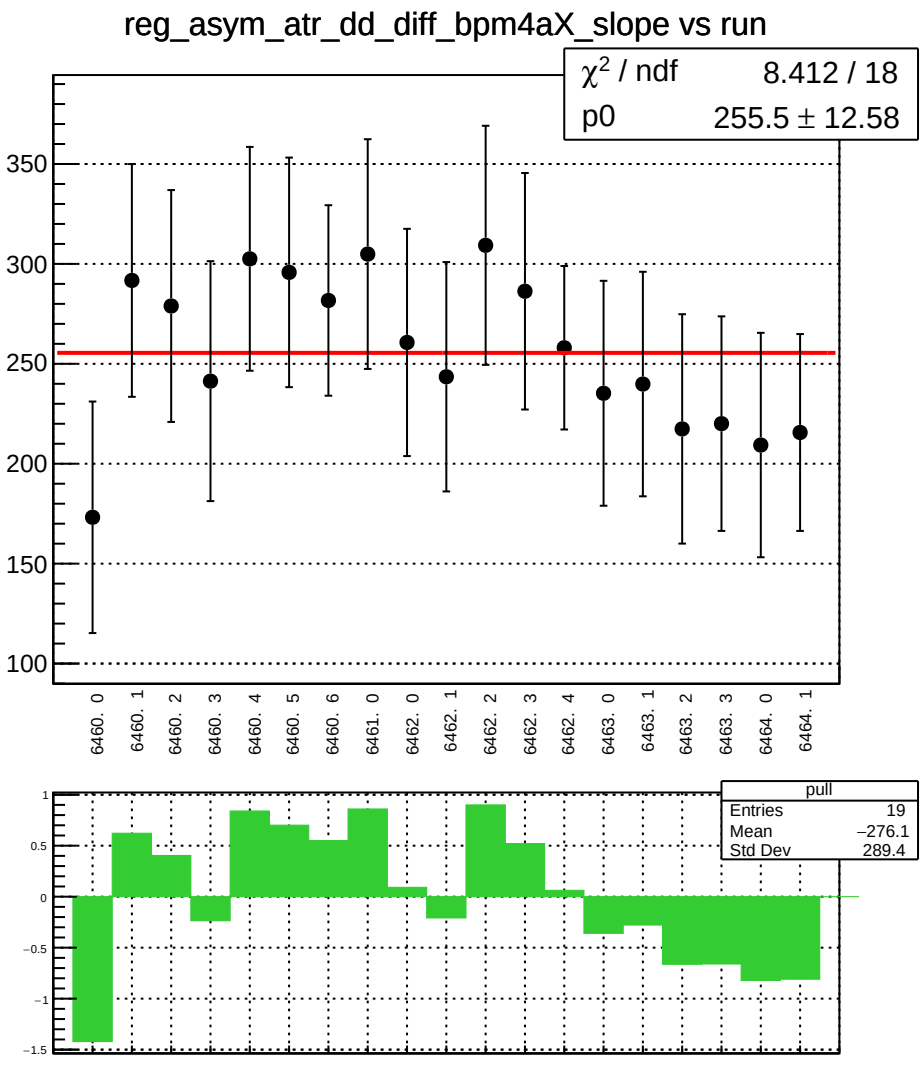

pull1D
Entries 19
Mean −0.002563
Std Dev 0.3717
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

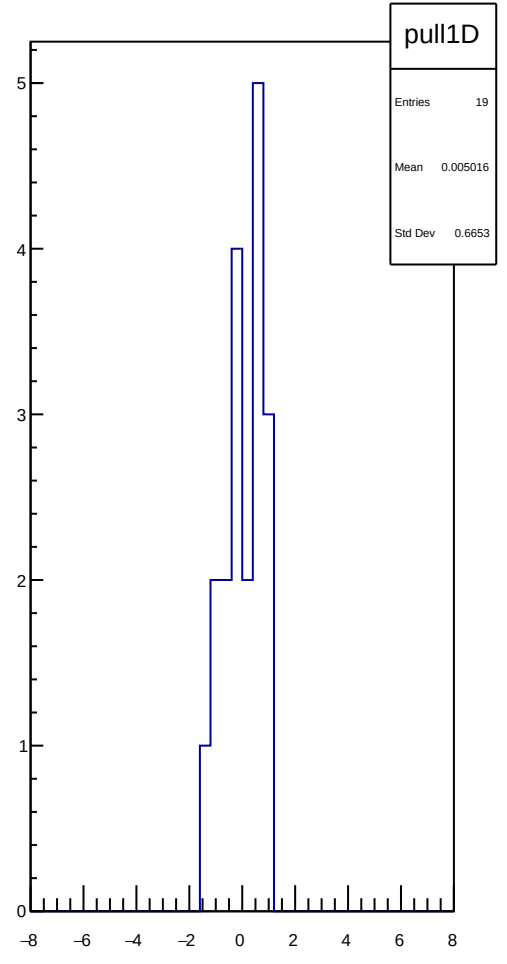

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.619 / 18
p0 117.5 ± 10.67
200
180
160
140
120
100
80
60
40
20
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 130.4
Std Dev 120.2
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

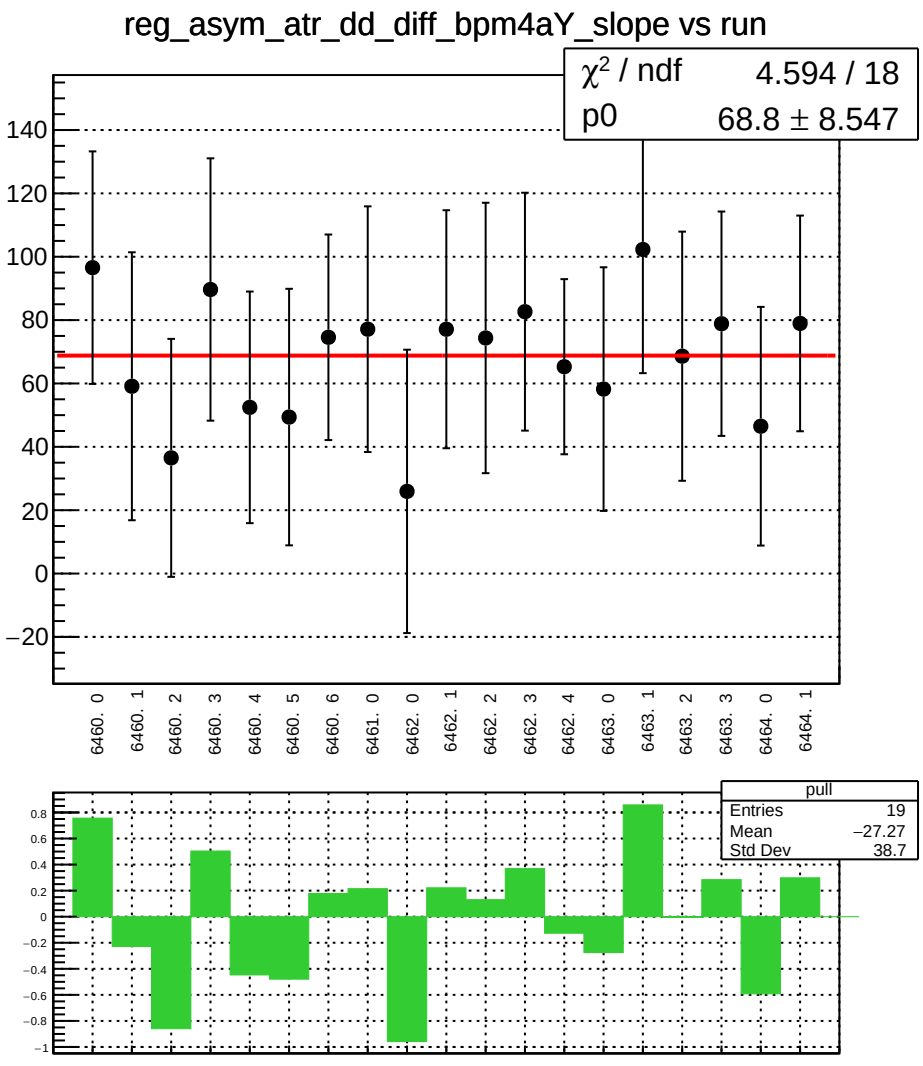

pull1D
Entries 19
Mean −0.01396
Std Dev 0.4929
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

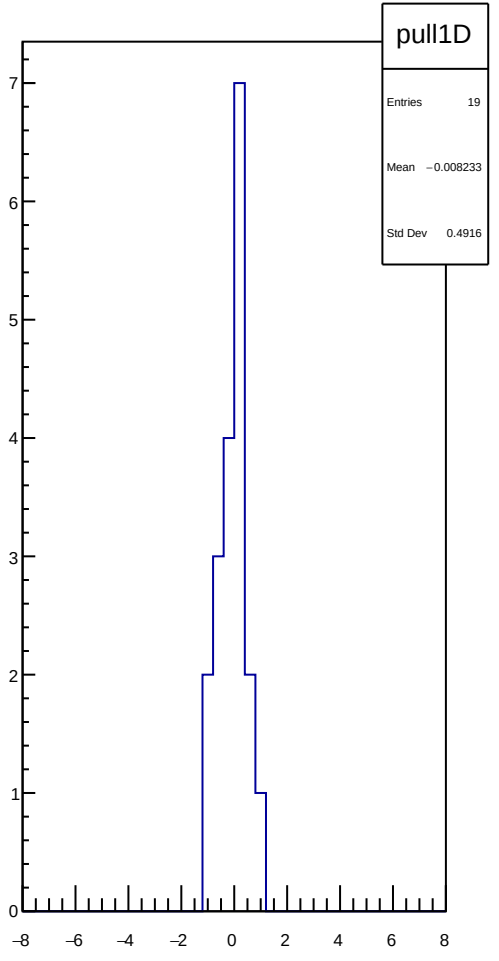

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 7.507 / 18
p0 −161.4 ± 0.4482
−156
−158
−160
−162
−164
−166
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 198.8
Std Dev 191.3
1
0.5
0
−0.5
−1
−1.5

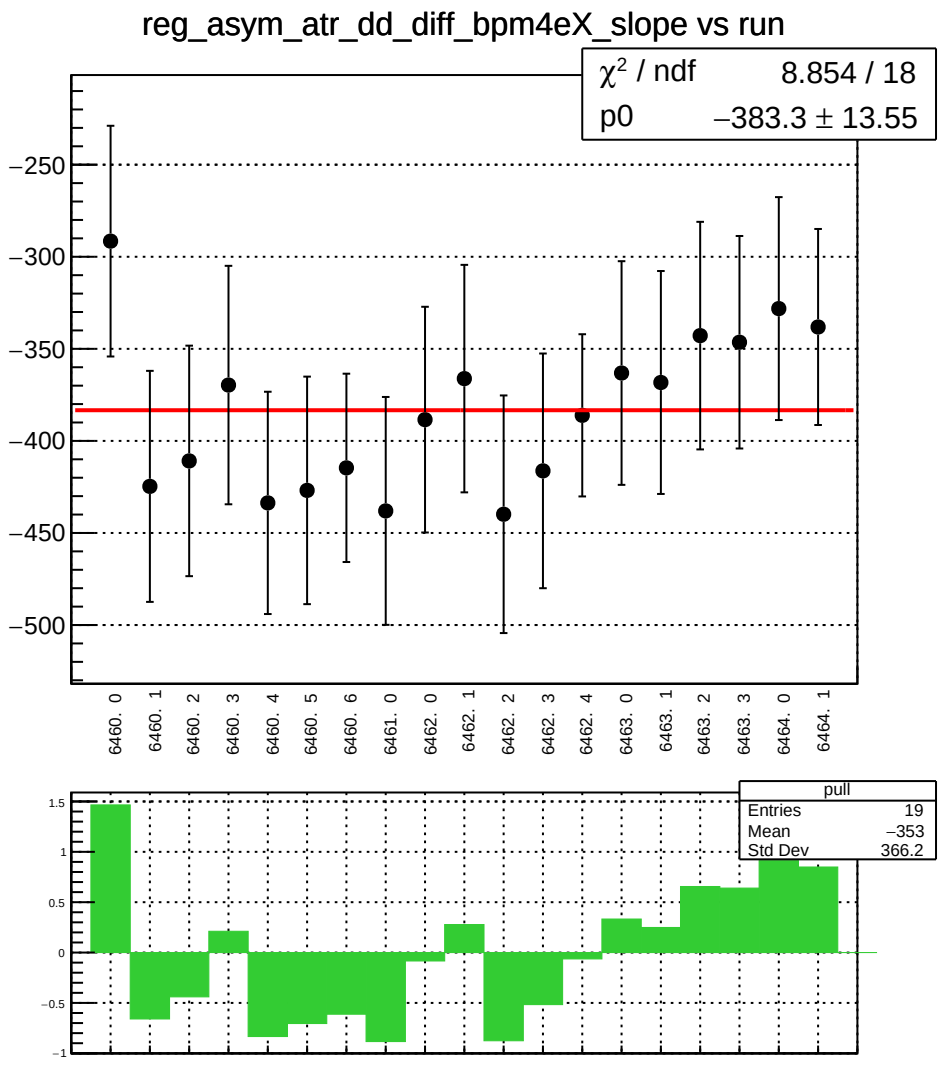

pull1D
Entries 19
Mean −0.007771
Std Dev 0.6285
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

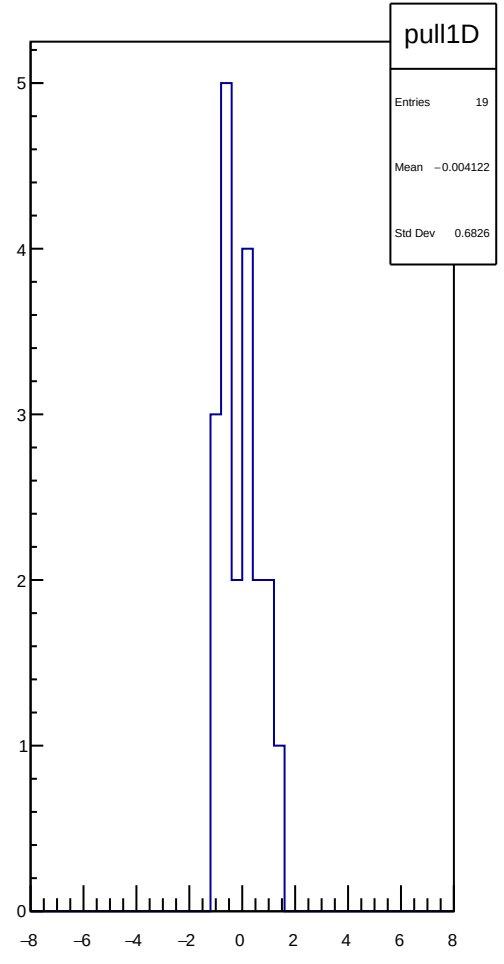

reg_asym_atr_dd_diff_bpm4aX_slope vs run
χ² / ndf 8.412 / 18
p0 255.5 ± 12.58
350
300
250
200
150
100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −276.1
Std Dev 289.4
1
0.5
0
−0.5
−1
−1.5

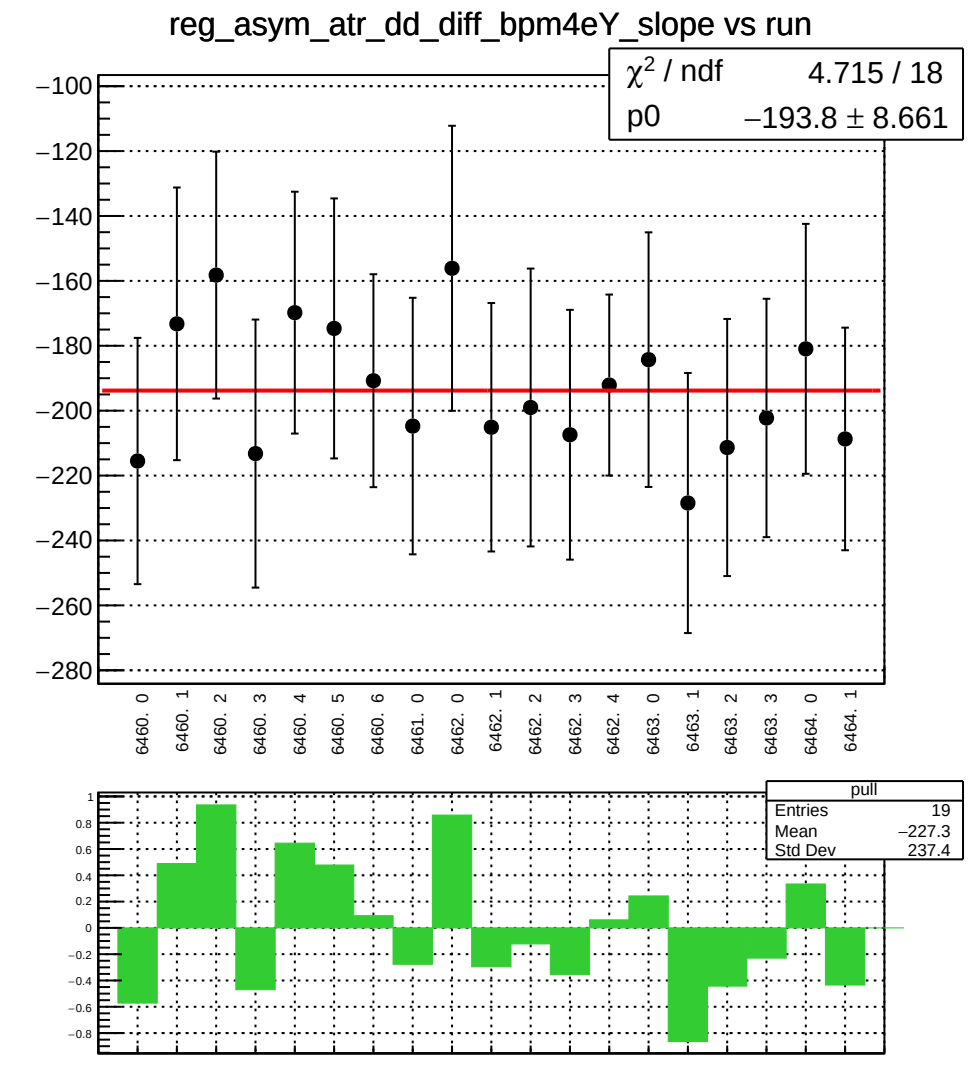

pull1D
Entries 19
Mean 0.005016
Std Dev 0.6653
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

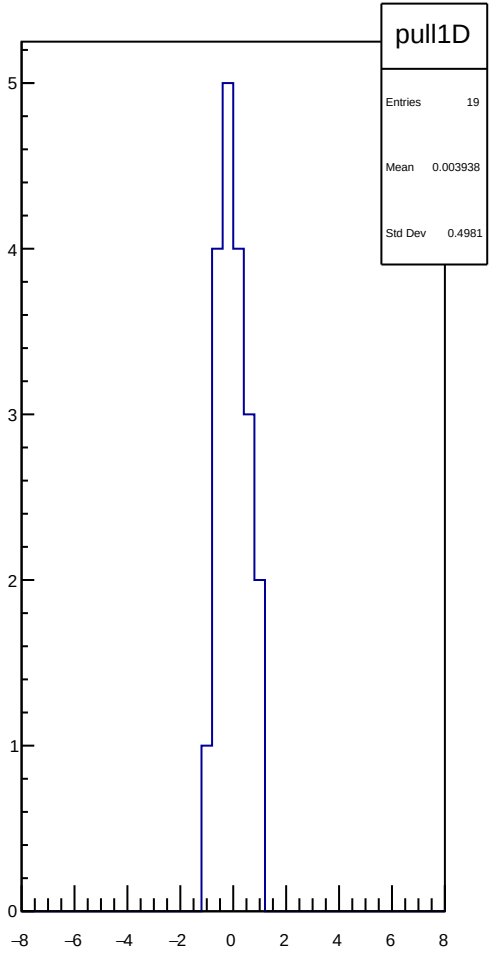

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.594 / 18
p0 68.8 ± 8.547
140
120
100
80
60
40
20
0
−20
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −27.27
Std Dev 38.7
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

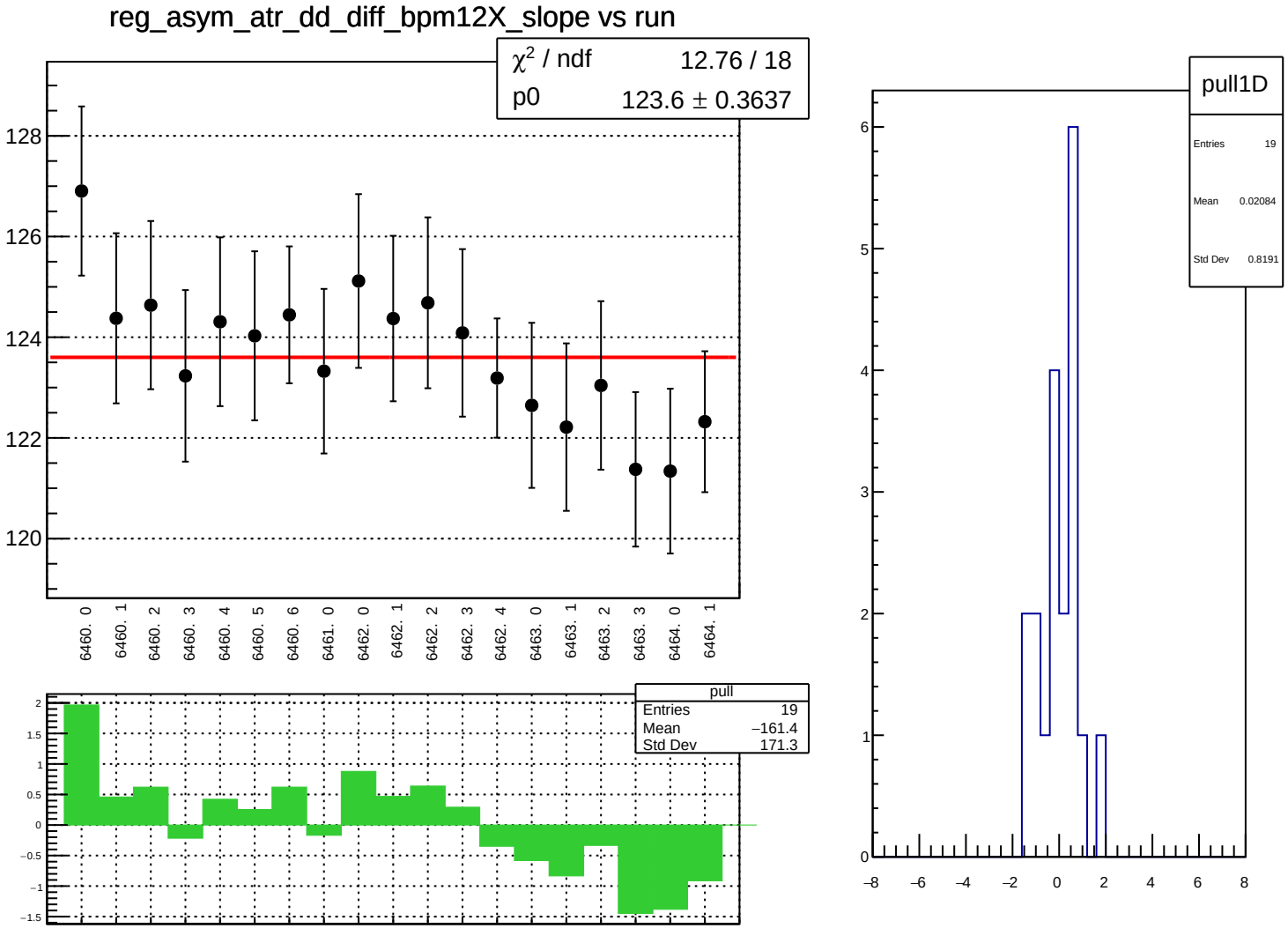

pull1D
Entries 19
Mean −0.008233
Std Dev 0.4916
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

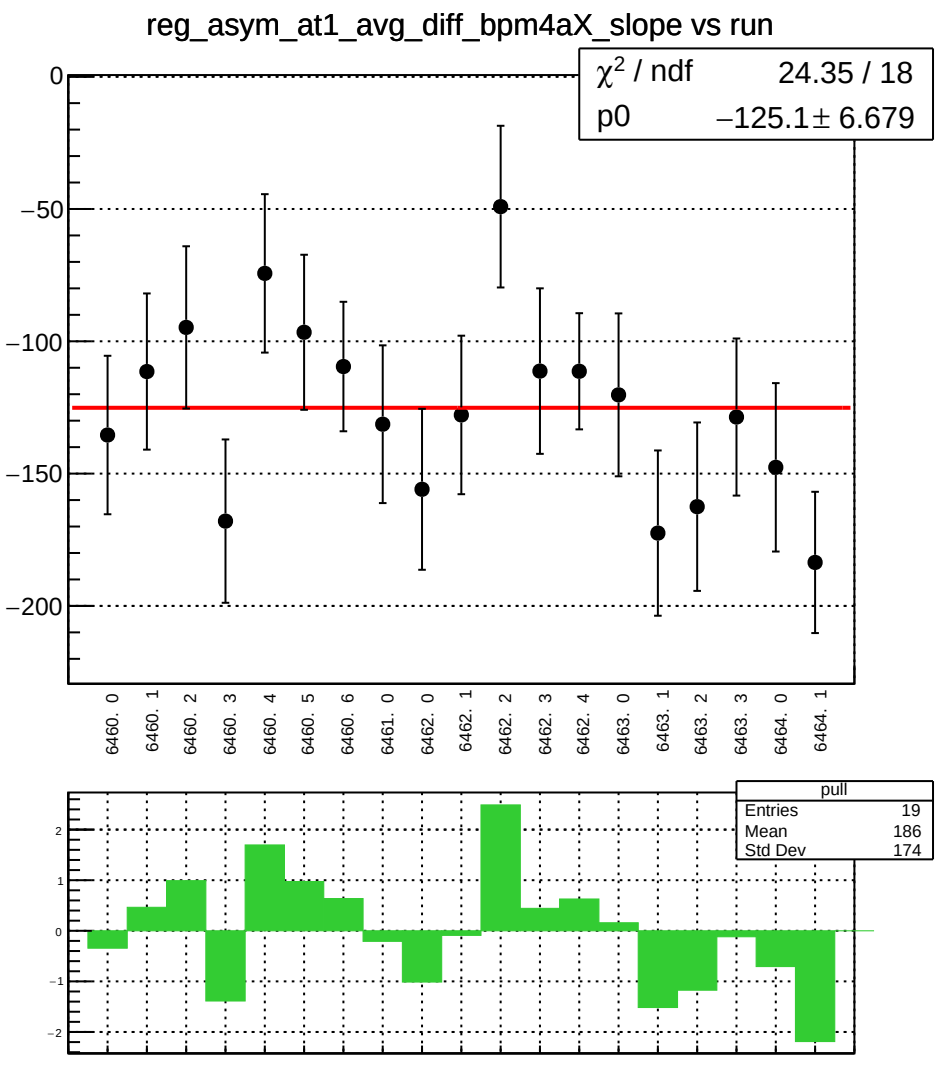

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 8.854 / 18
p0 −383.3 ± 13.55
−250
−300
−350
−400
−450
−500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −353
Std Dev 366.2
1.5
1
0.5
0
−0.5
−1

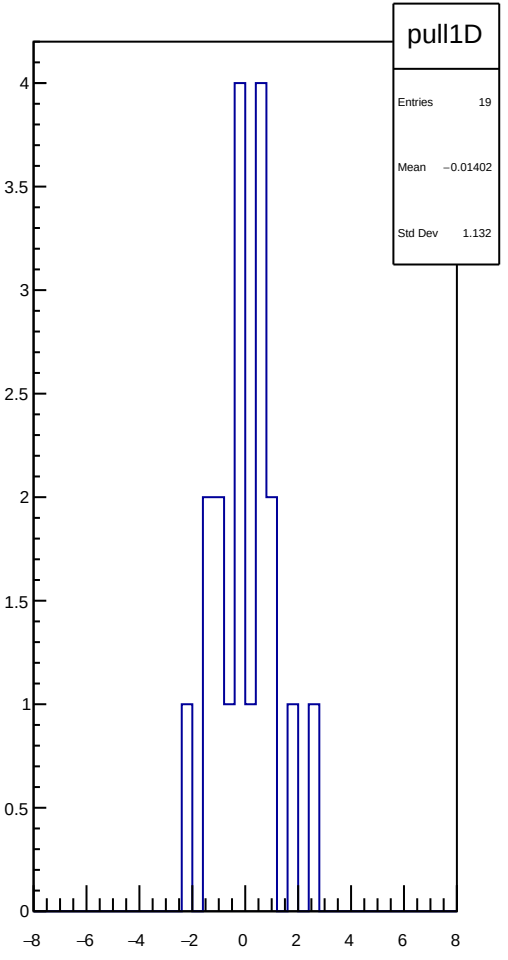

pull1D
Entries 19
Mean −0.004122
Std Dev 0.6826
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

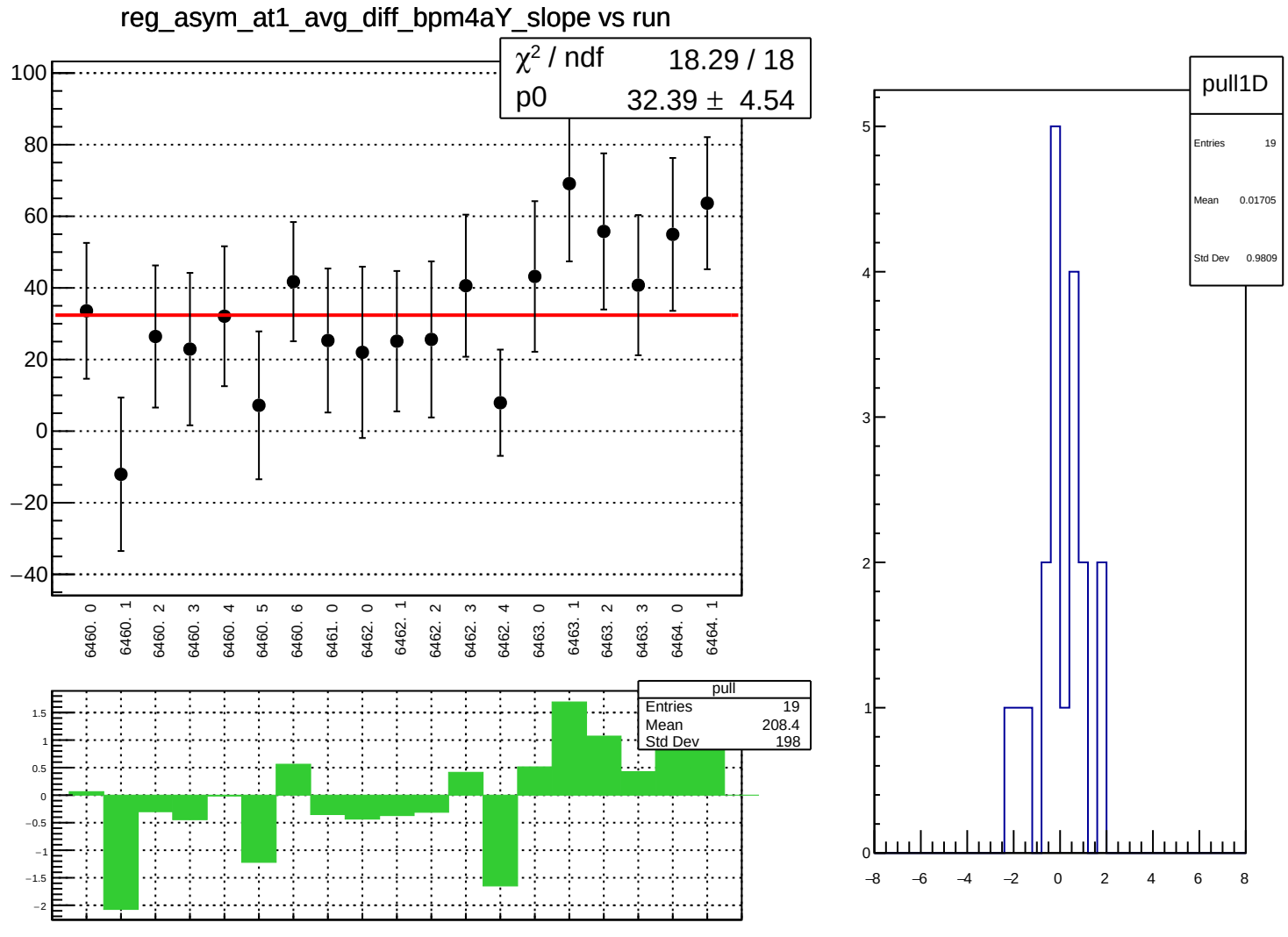

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.715 / 18
p0 −193.8 ± 8.661
−100
−120
−140
−160
−180
−200
−220
−240
−260
−280
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −227.3
Std Dev 237.4
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

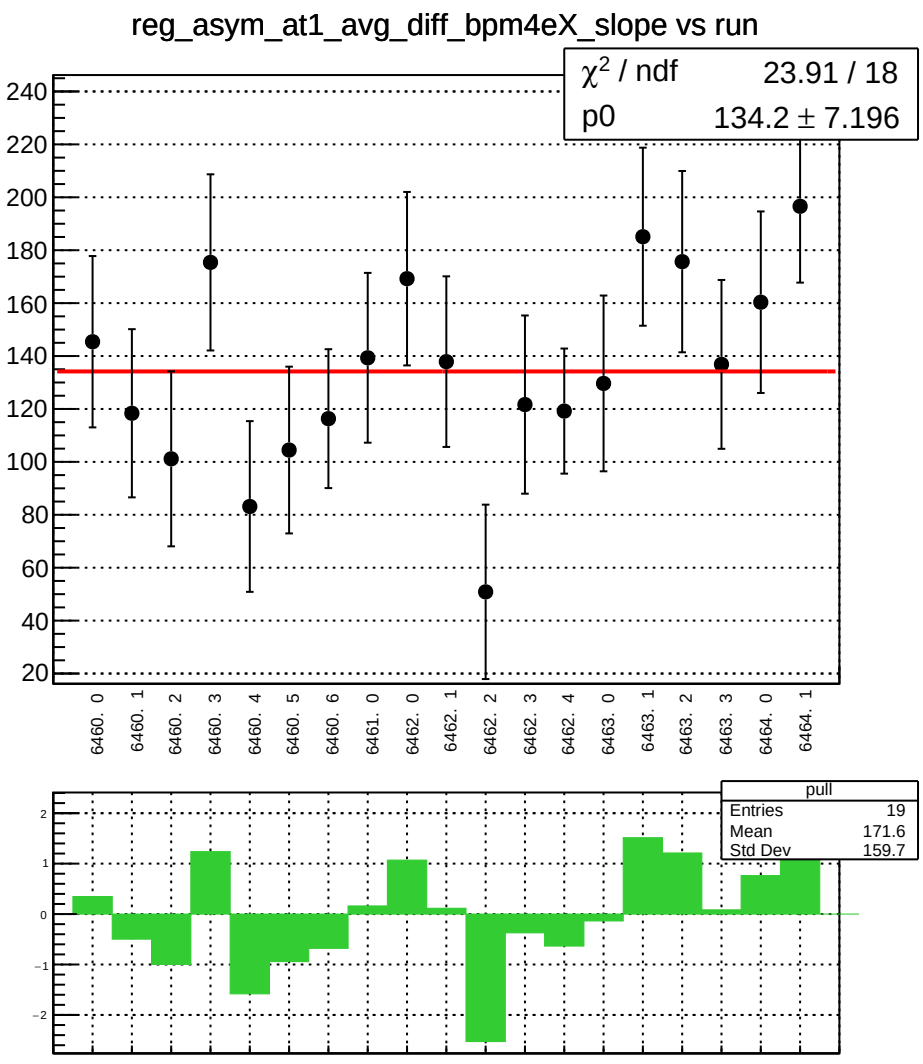

pull1D
Entries 19
Mean 0.003938
Std Dev 0.4981
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

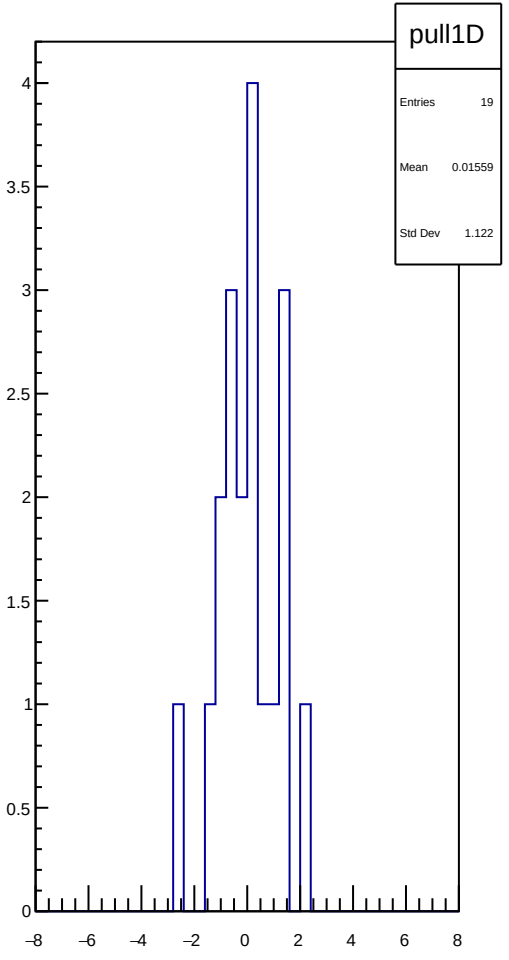

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 12.76 / 18
p0 123.6 ± 0.3637
128
126
124
122
120
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −161.4
Std Dev 171.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 19
Mean 0.02084
Std Dev 0.8191
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

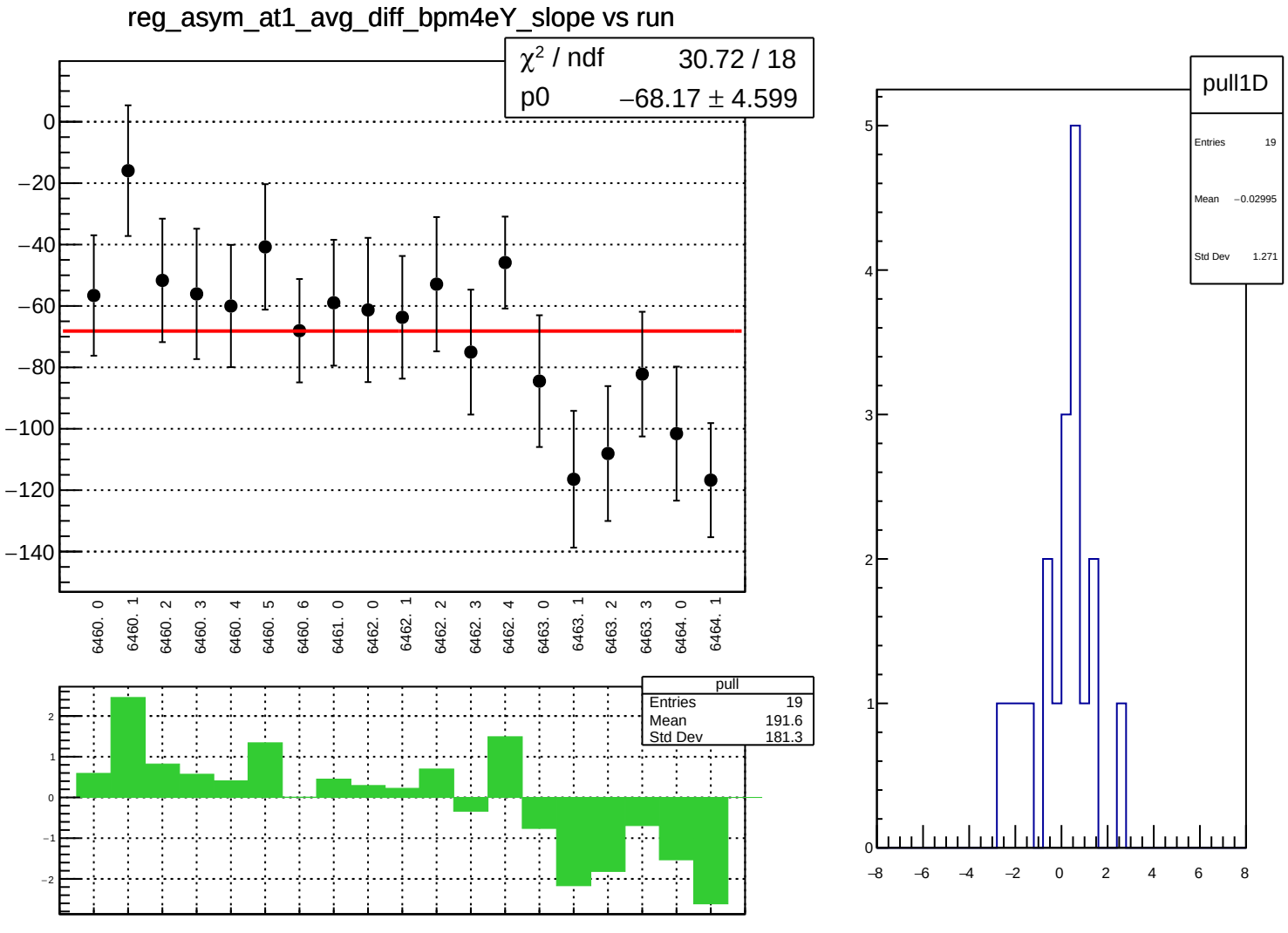

reg_asym_at1_avg_diff_bpm4aX_slope vs run
χ² / ndf 24.35 / 18
p0 −125.1± 6.679
0
−50
−100
−150
−200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 186
Std Dev 174
2
1
0
−1
−2

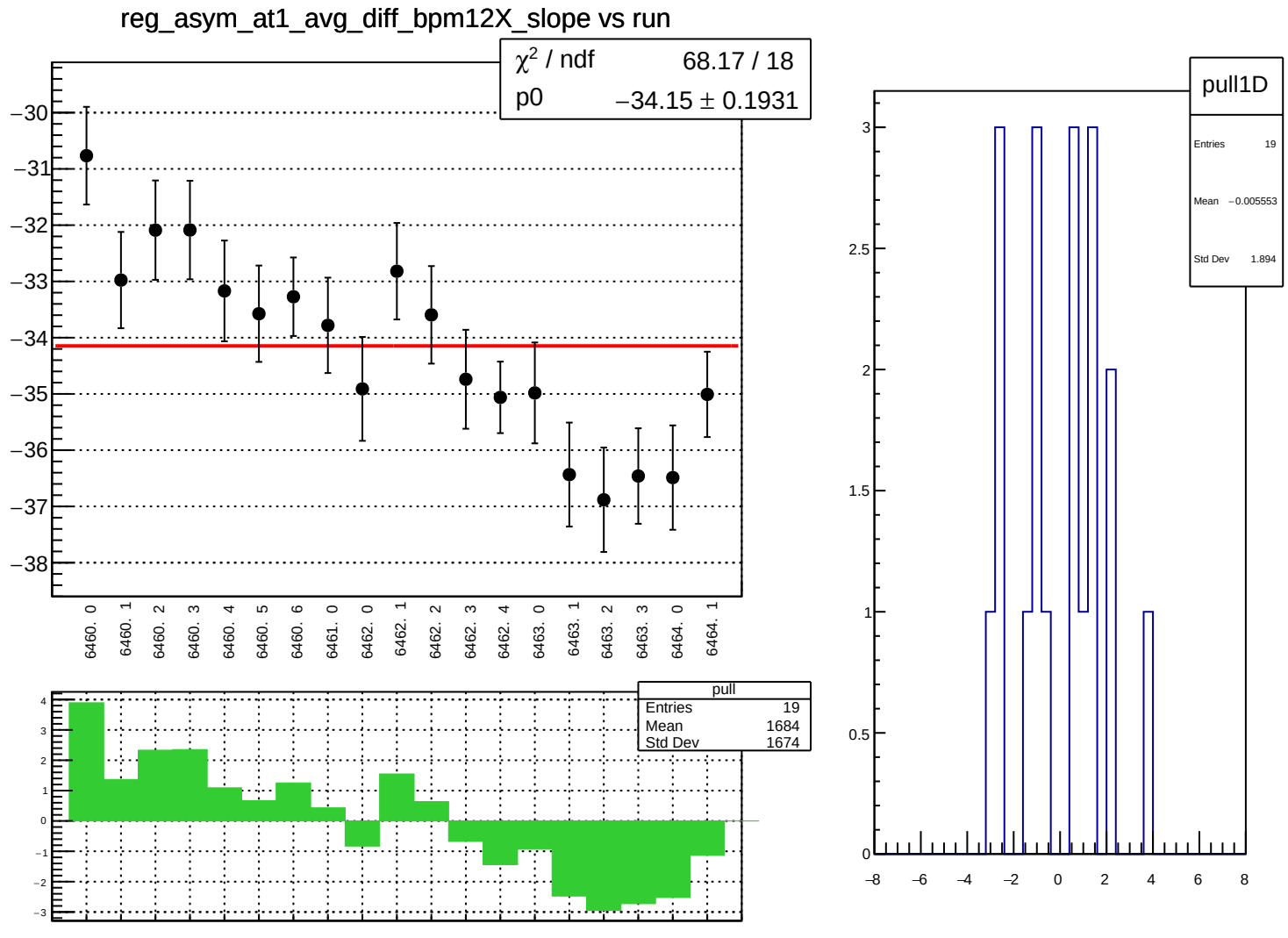

pull1D
Entries 19
Mean −0.01402
Std Dev 1.132
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

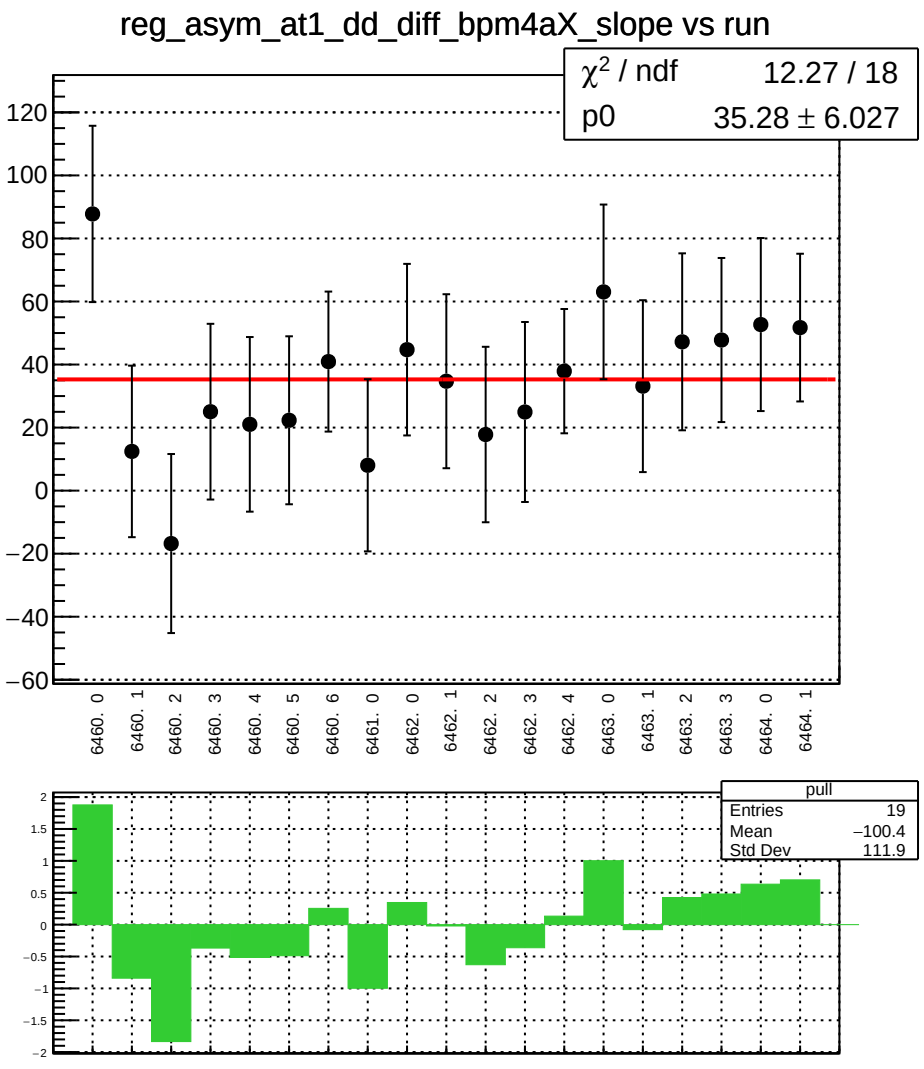

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 18.29 / 18
p0 32.39 ± 4.54
100
80
60
40
20
0
−20
−40
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 208.4
Std Dev 198
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 19
Mean 0.01705
Std Dev 0.9809
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

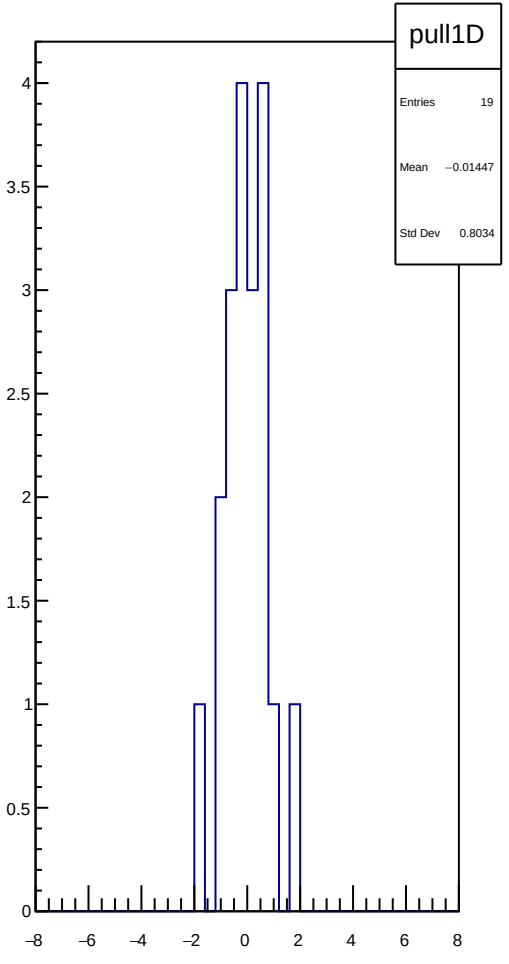

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 23.91 / 18
p0 134.2 ± 7.196
240
220
200
180
160
140
120
100
80
60
40
20
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 171.6
Std Dev 159.7
2
1
0
−1
−2

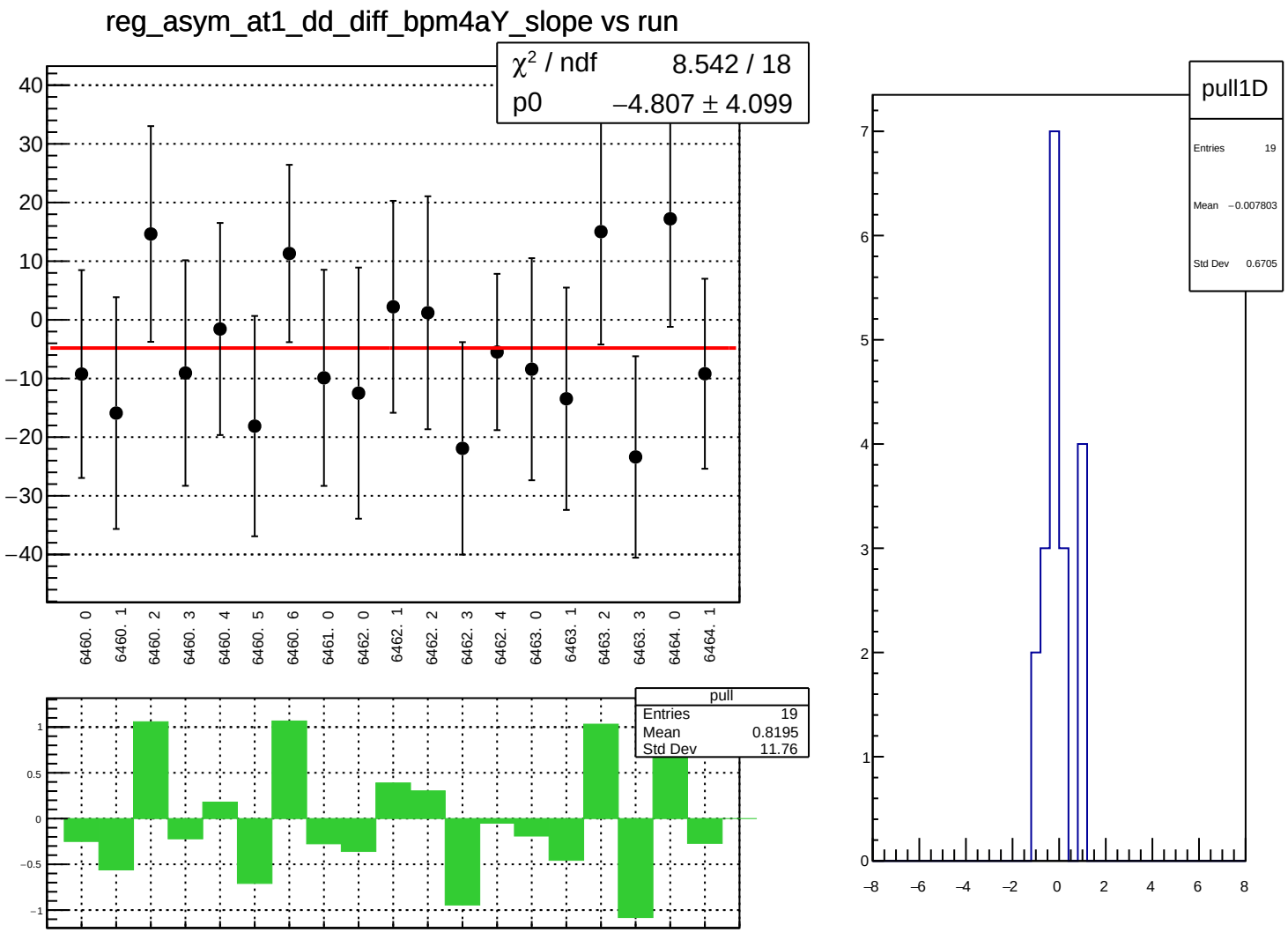

pull1D
Entries 19
Mean 0.01559
Std Dev 1.122
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

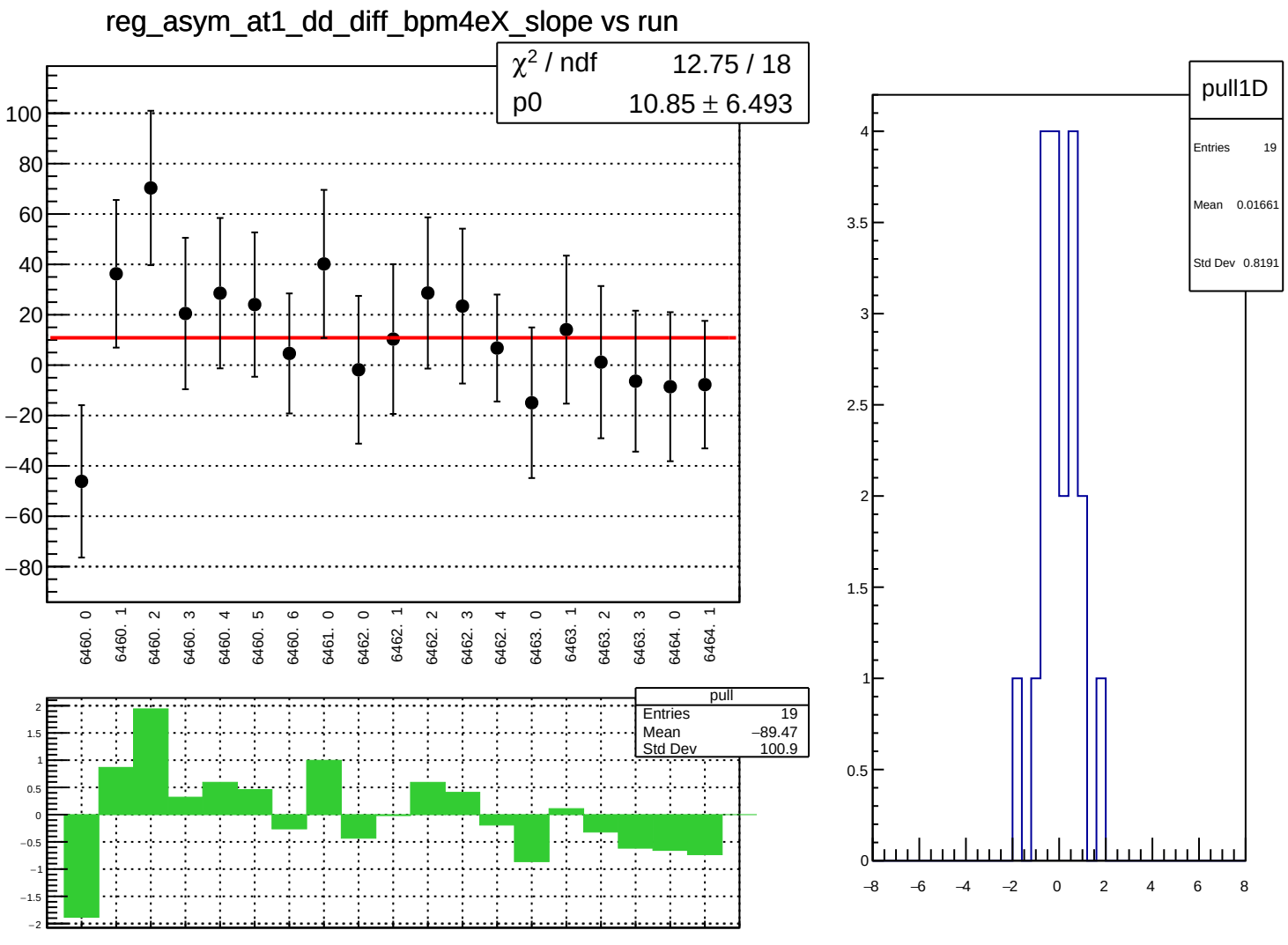

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 30.72 / 18
p0 −68.17 ± 4.599
0
−20
−40
−60
−80
−100
−120
−140
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 191.6
Std Dev 181.3
2
1
0
−1
−2
pull1D
Entries 19
Mean −0.02995
Std Dev 1.271
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

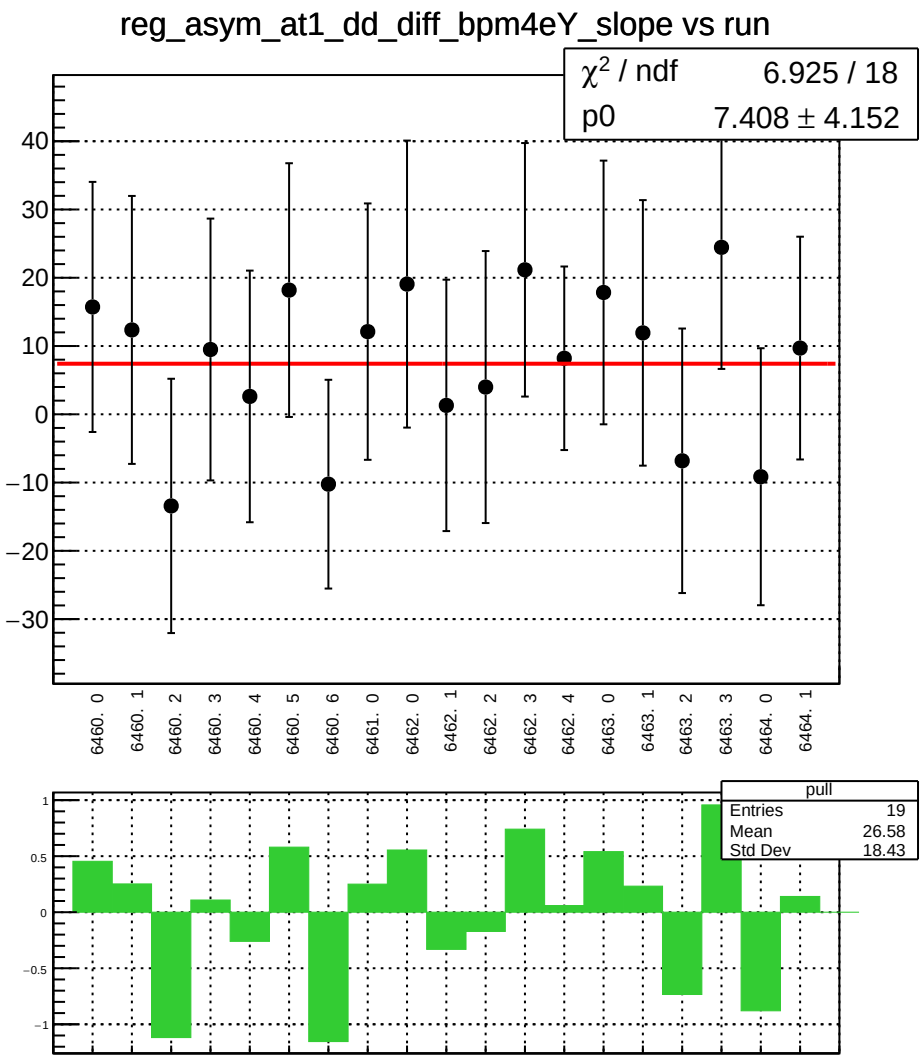

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 68.17 / 18
p0 −34.15 ± 0.1931
−30
−31
−32
−33
−34
−35
−36
−37
−38
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 1684
Std Dev 1674
4
3
2
1
0
−1
−2
−3
pull1D
Entries 19
Mean −0.005553
Std Dev 1.894
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

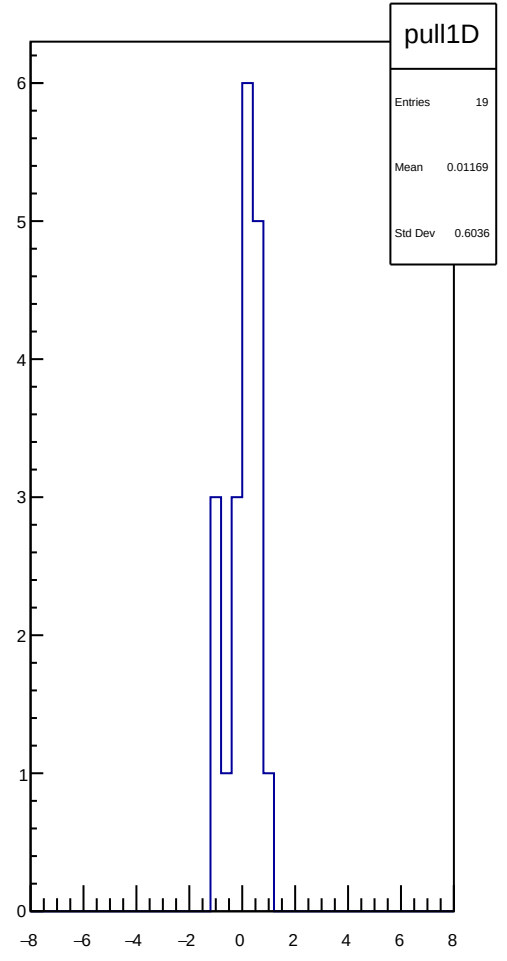

reg_asym_at1_dd_diff_bpm4aX_slope vs run
χ² / ndf 12.27 / 18
p0 35.28 ± 6.027
120
100
80
60
40
20
0
−20
−40
−60
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −100.4
Std Dev 111.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

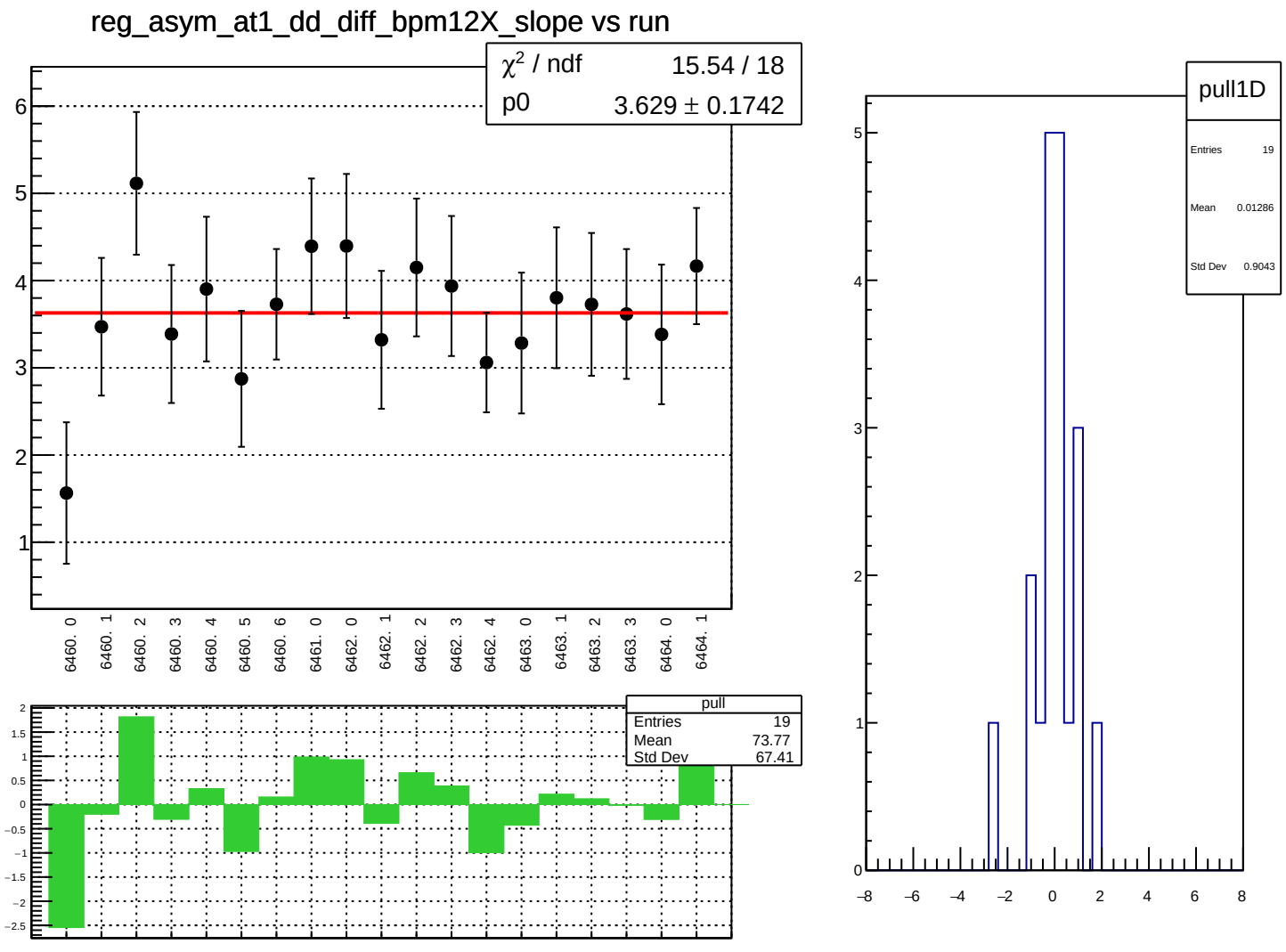

pull1D
Entries 19
Mean −0.01447
Std Dev 0.8034
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

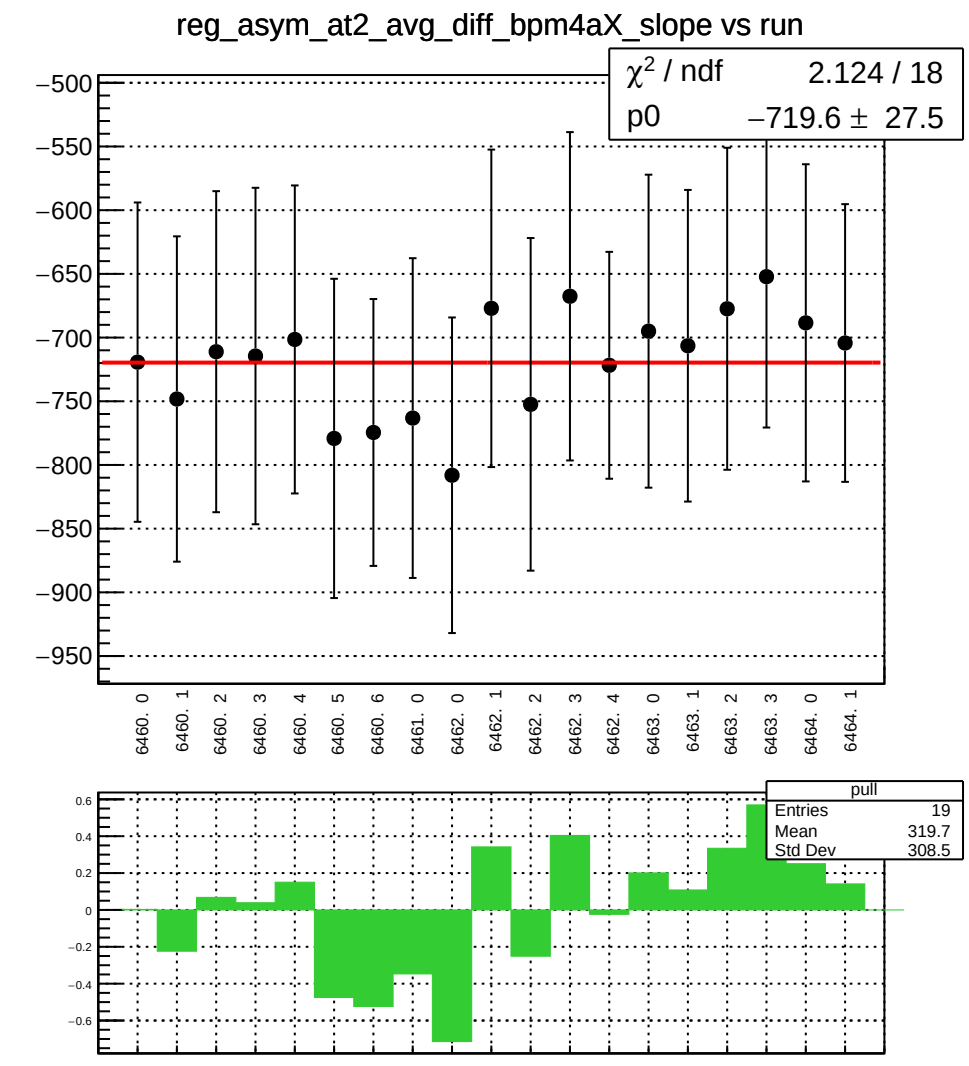

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.542 / 18
p0 −4.807 ± 4.099
40
30
20
10
0
−10
−20
−30
−40
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 0.8195
Std Dev 11.76
1
0.5
0
−0.5
−1
pull1D
Entries 19
Mean −0.007803
Std Dev 0.6705
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

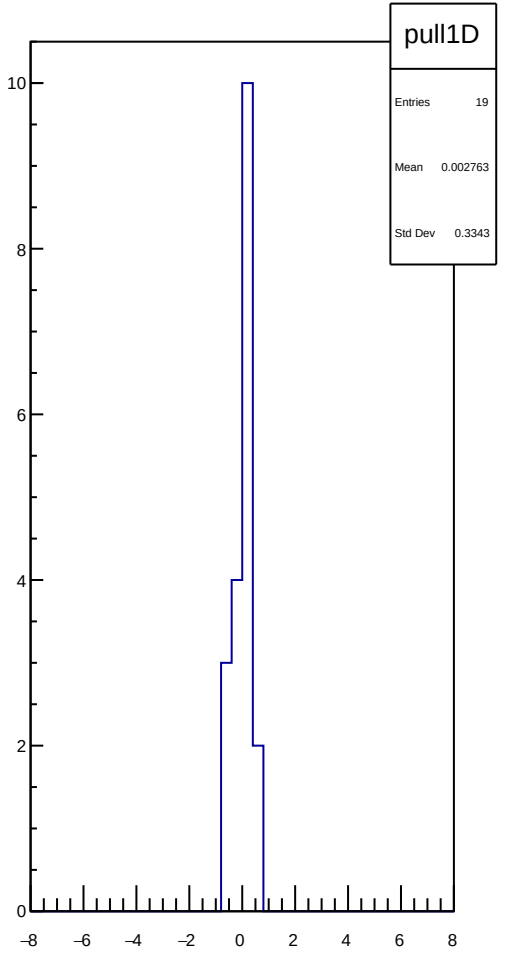

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 12.75 / 18
p0 10.85 ± 6.493
100
80
60
40
20
0
−20
−40
−60
−80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −89.47
Std Dev 100.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 19
Mean 0.01661
Std Dev 0.8191
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

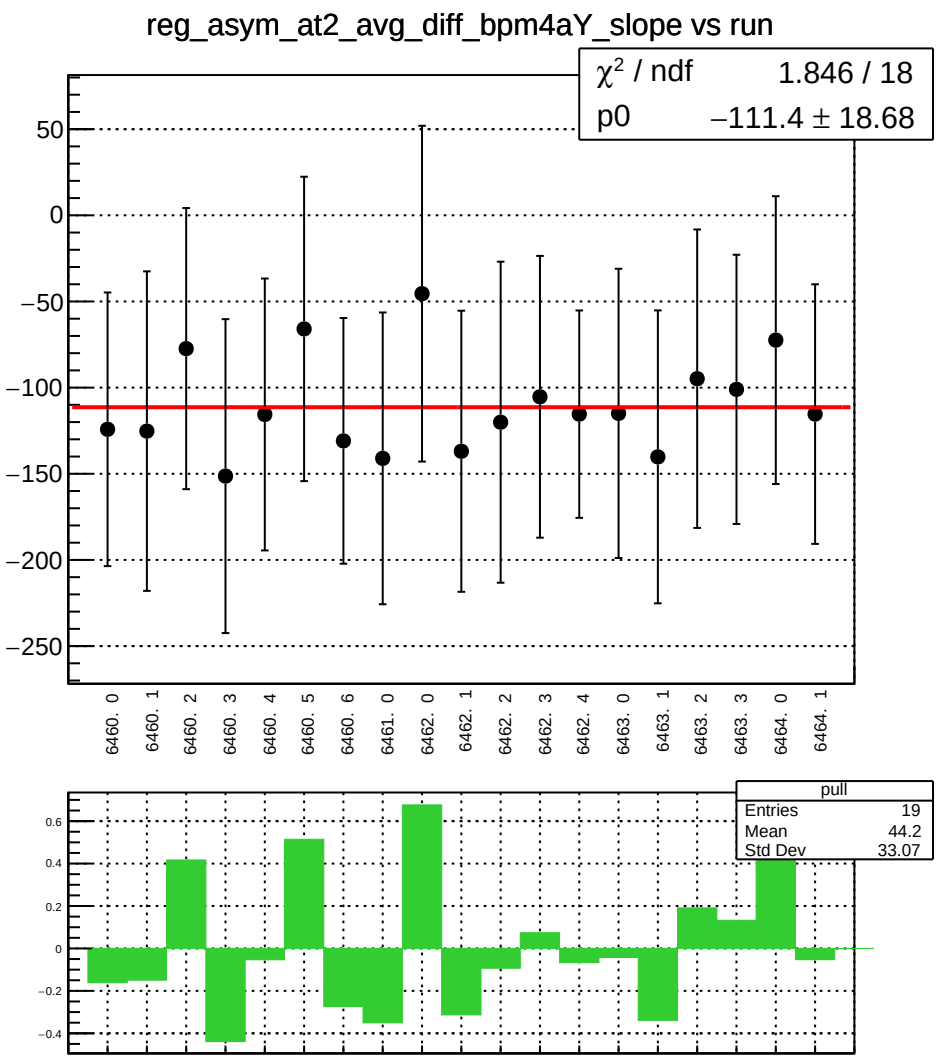

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.925 / 18
p0 7.408 ± 4.152
40
30
20
10
0
−10
−20
−30
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 26.58
Std Dev 18.43
1
0.5
0
−0.5
−1

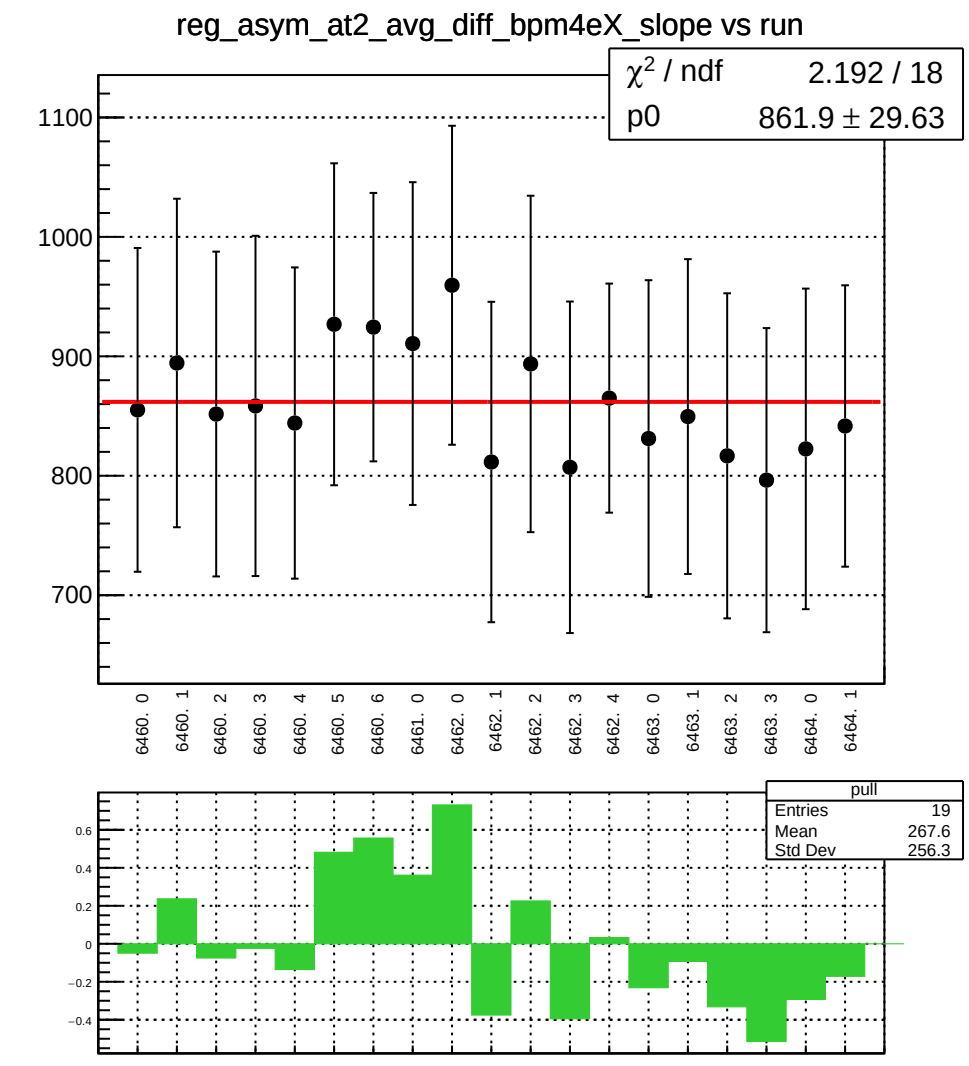

pull1D
Entries 19
Mean 0.01169
Std Dev 0.6036
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

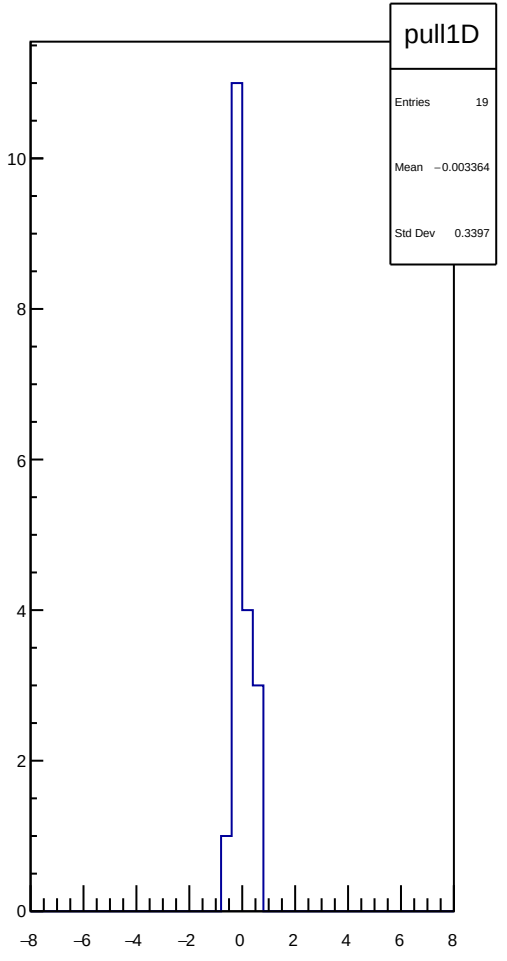

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 15.54 / 18
p0 3.629 ± 0.1742
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 73.77
Std Dev 67.41
pull1D
Entries 19
Mean 0.01286
Std Dev 0.9043

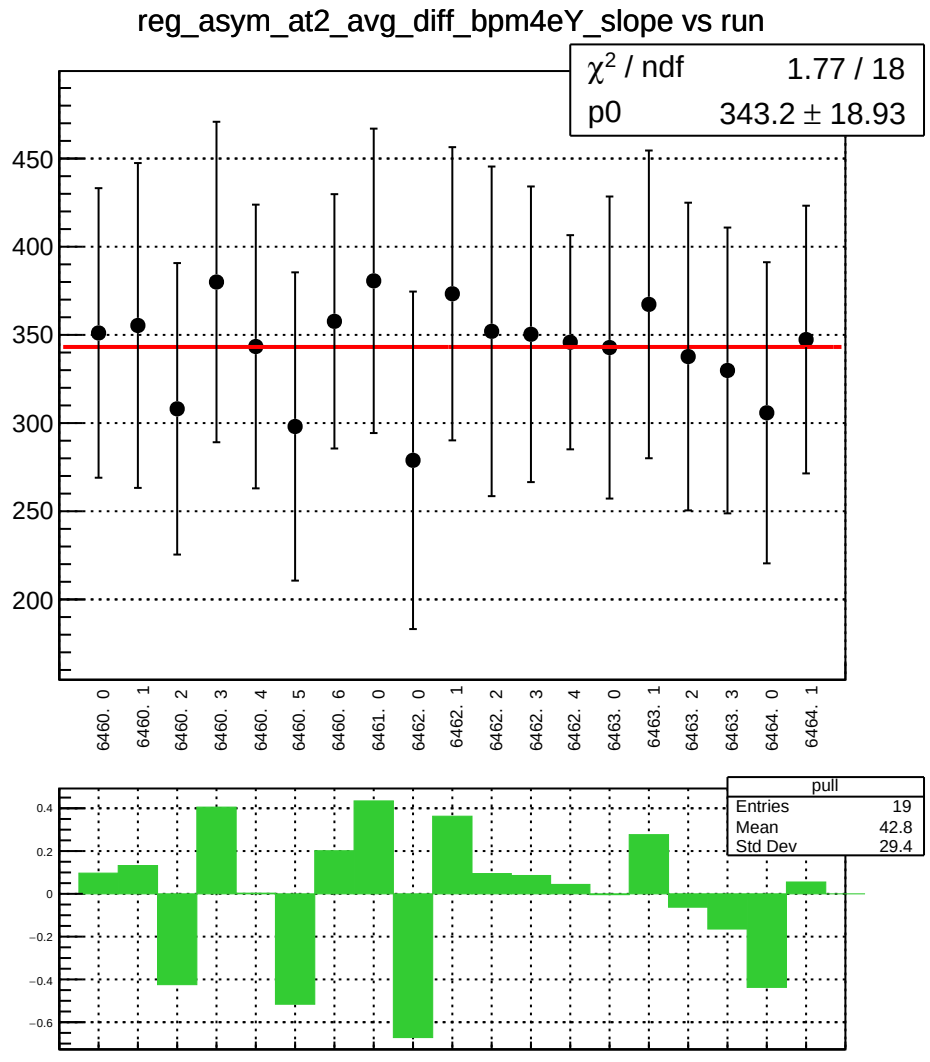

reg_asym_at2_avg_diff_bpm4aX_slope vs run
χ² / ndf 2.124 / 18
p0 −719.6 ± 27.5
−500
−550
−600
−650
−700
−750
−800
−850
−900
−950
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 319.7
Std Dev 308.5
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

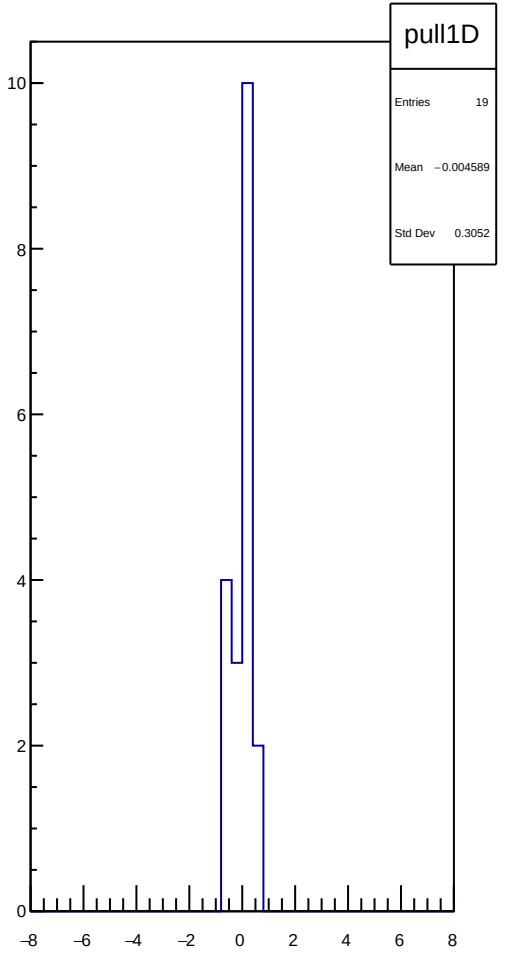

pull1D
Entries 19
Mean 0.002763
Std Dev 0.3343
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

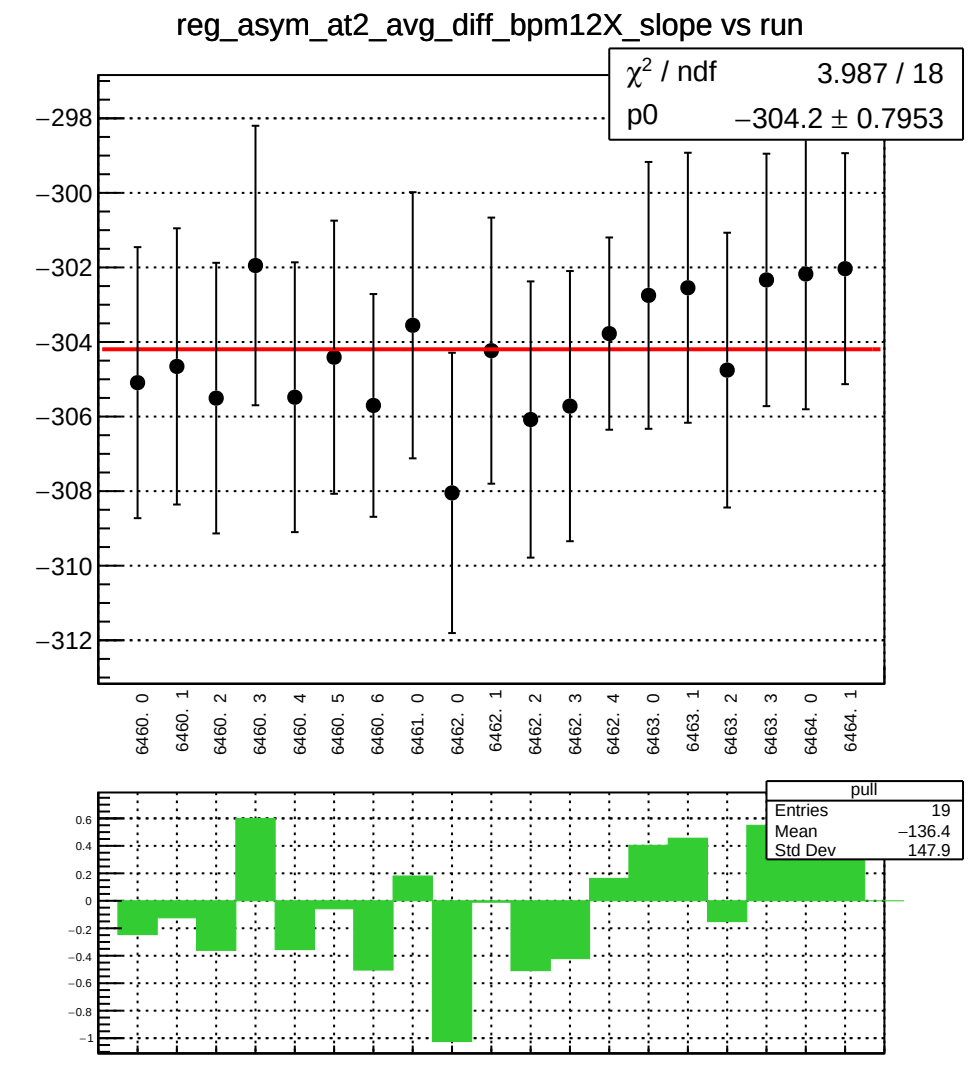

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.846 / 18
p0 −111.4 ± 18.68
50
0
−50
−100
−150
−200
−250
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 44.2
Std Dev 33.07
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 19
Mean 0.007185
Std Dev 0.3116
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

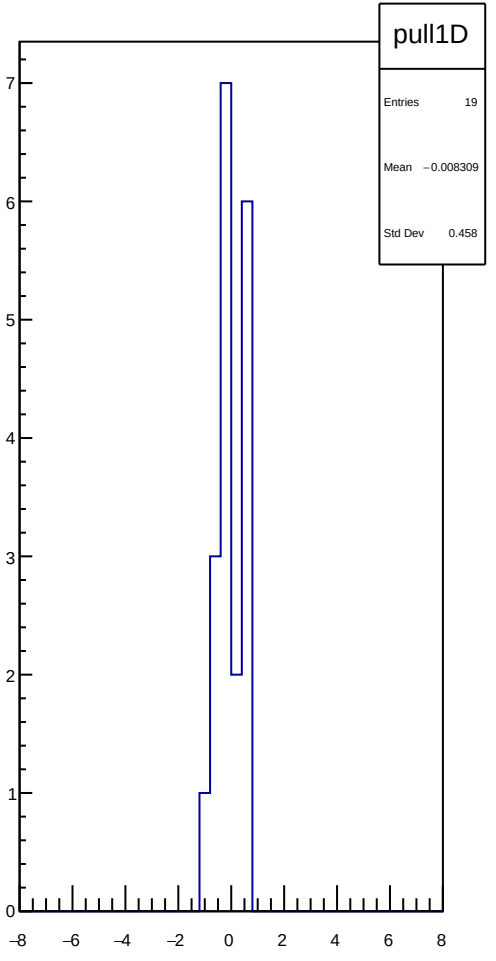

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.192 / 18
p0 861.9 ± 29.63
1100
1000
900
800
700
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 267.6
Std Dev 256.3
0.6
0.4
0.2
0
−0.2
−0.4

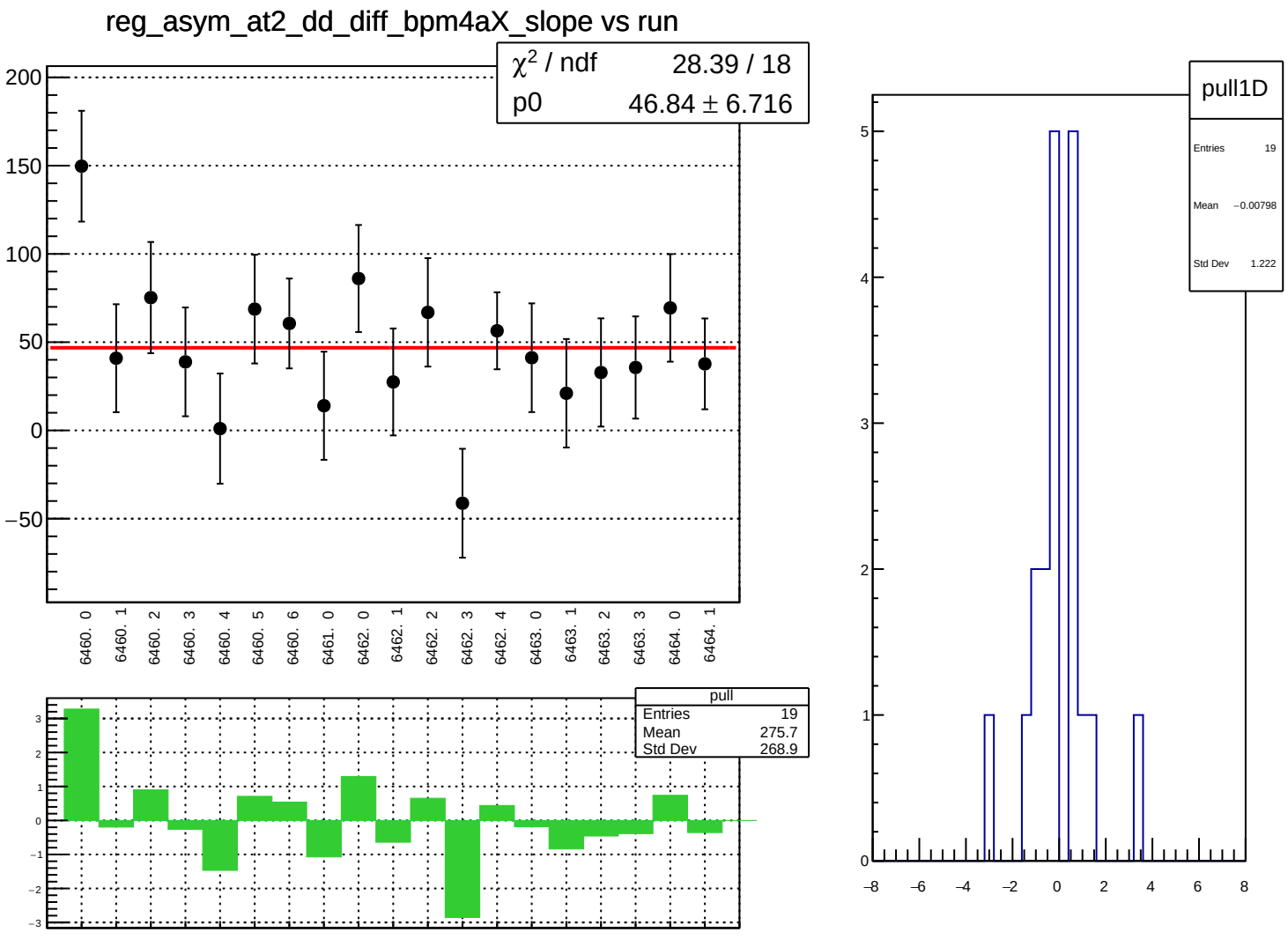

pull1D
Entries 19
Mean −0.003364
Std Dev 0.3397
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

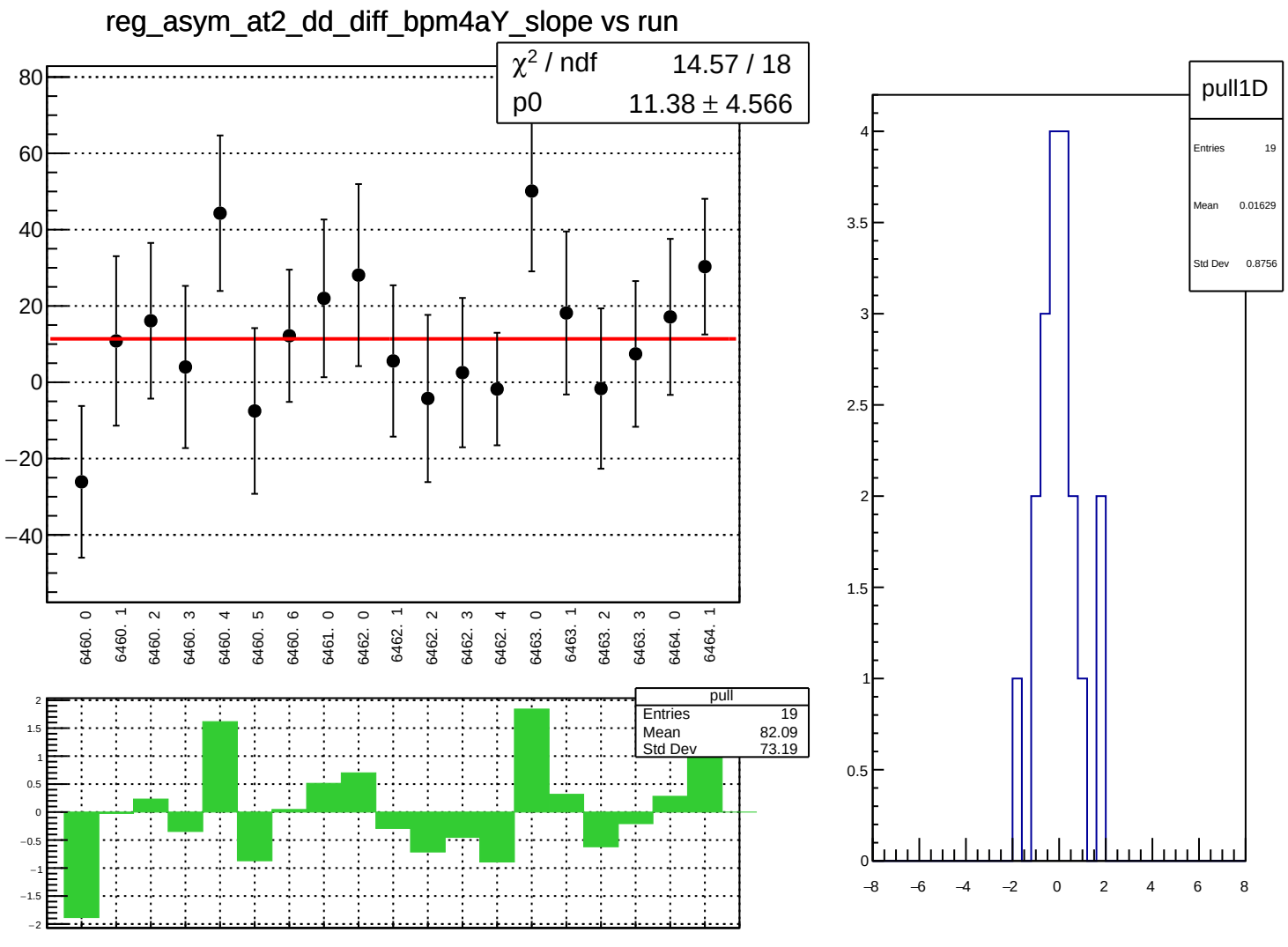

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.77 / 18
p0 343.2 ± 18.93
450
400
350
300
250
200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 42.8
Std Dev 29.4
0.4
0.2
0
−0.2
−0.4
−0.6

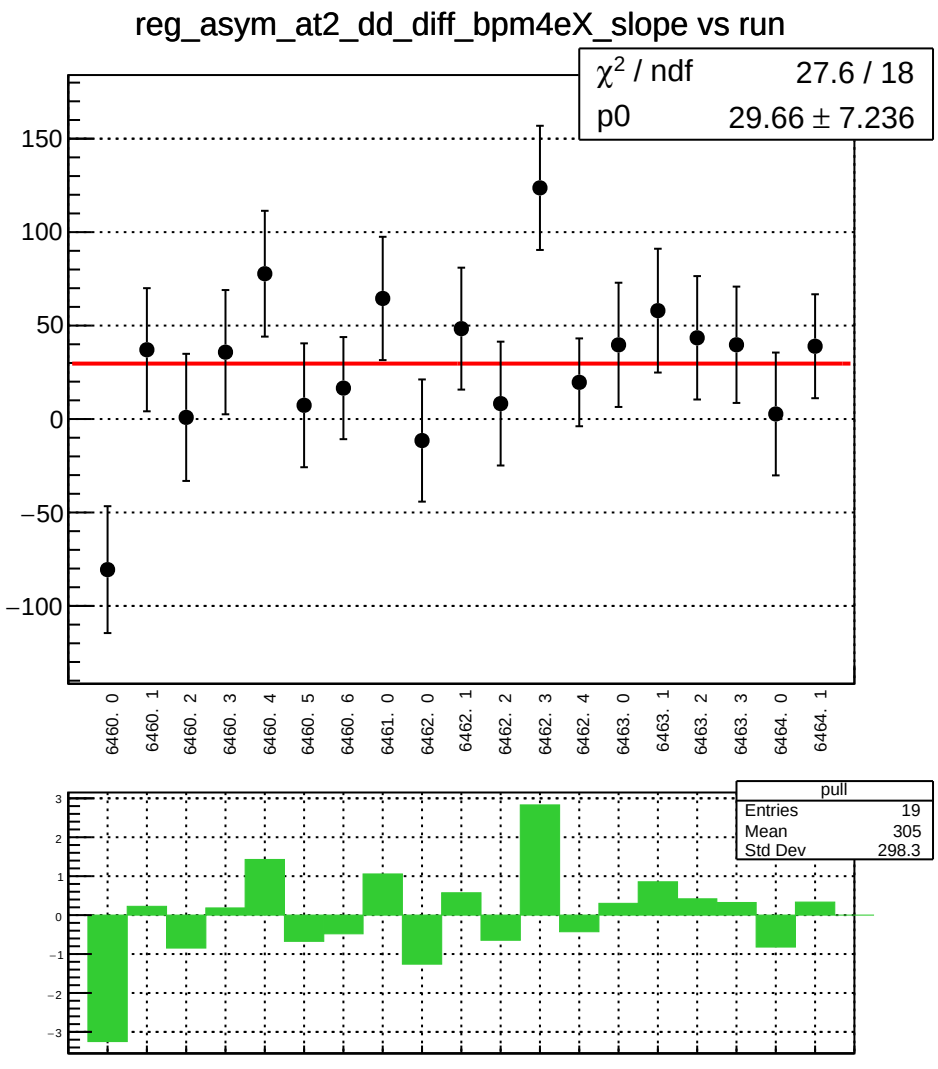

pull1D
Entries 19
Mean −0.004589
Std Dev 0.3052
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

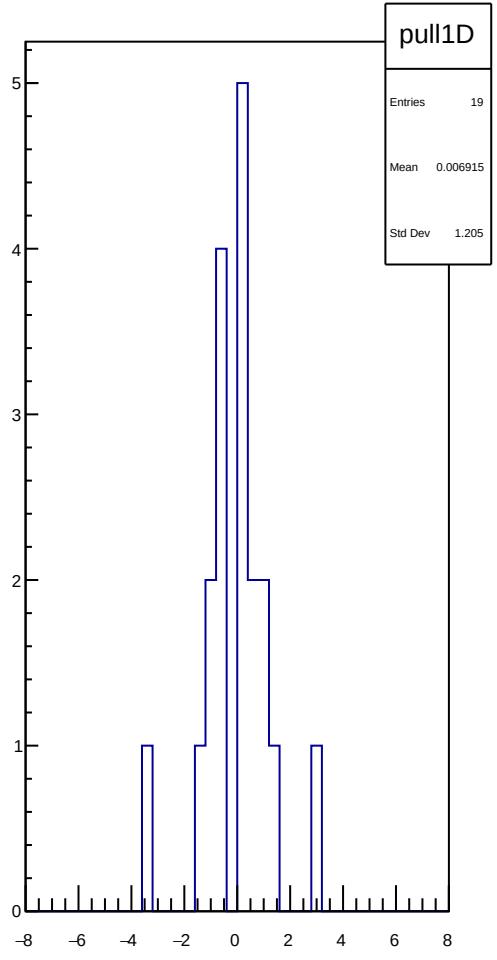

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 3.987 / 18
p0 −304.2 ± 0.7953
−298
−300
−302
−304
−306
−308
−310
−312
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −136.4
Std Dev 147.9
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

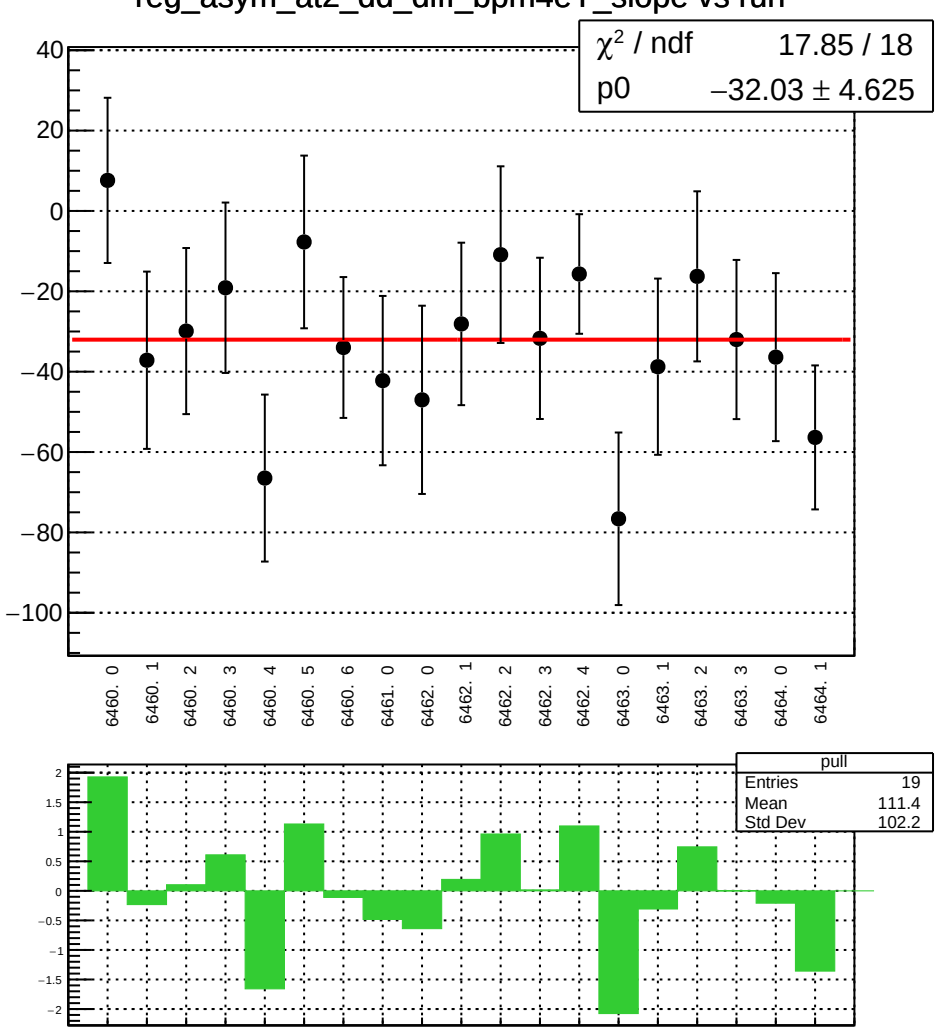

pull1D
Entries 19
Mean −0.008309
Std Dev 0.458
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

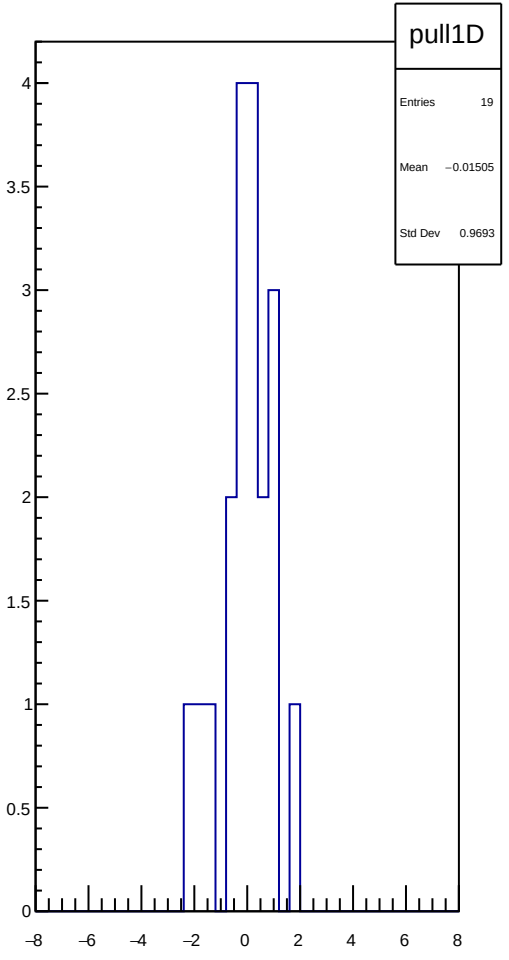

reg_asym_at2_dd_diff_bpm4aX_slope vs run
χ² / ndf 28.39 / 18
p0 46.84 ± 6.716
200
150
100
50
0
−50
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 275.7
Std Dev 268.9
3
2
1
0
−1
−2
−3
pull1D
Entries 19
Mean −0.00798
Std Dev 1.222
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

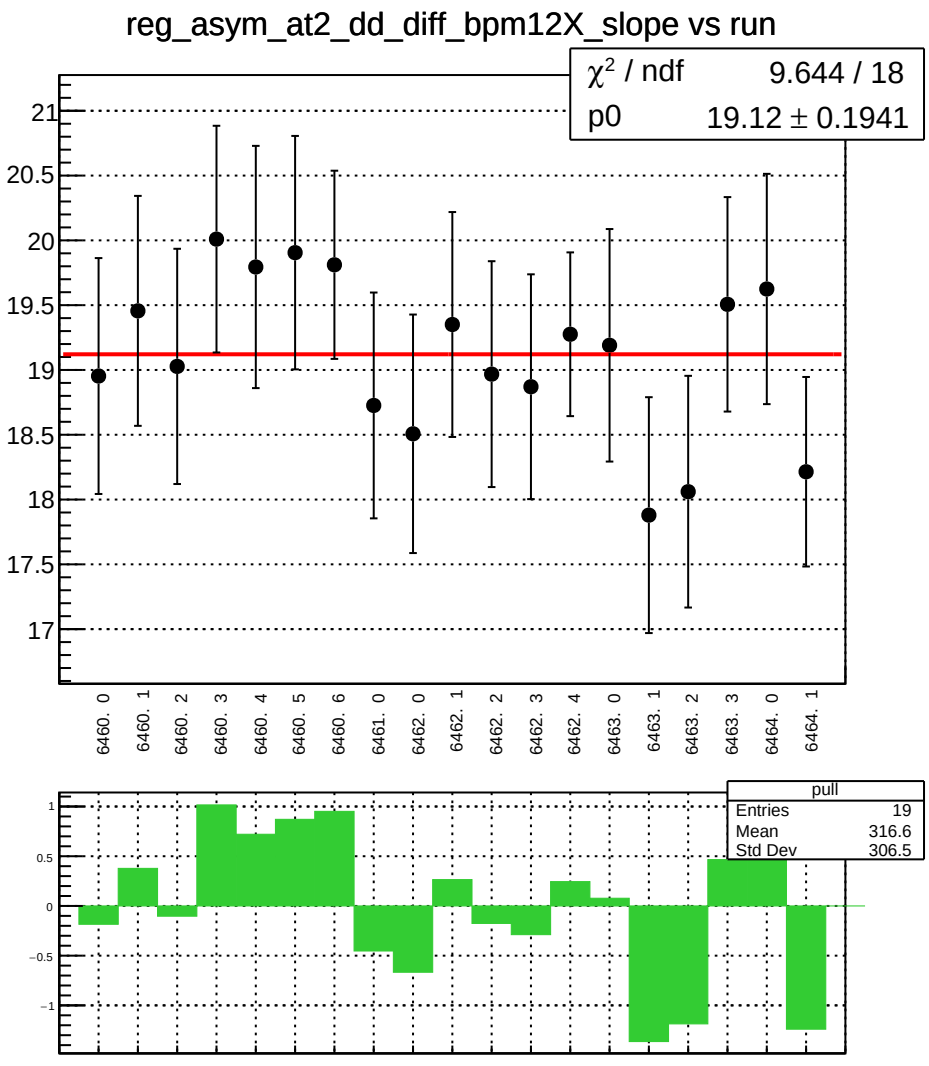

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 14.57 / 18
p0 11.38 ± 4.566
80
60
40
20
0
−20
−40
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 82.09
Std Dev 73.19
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 19
Mean 0.01629
Std Dev 0.8756
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

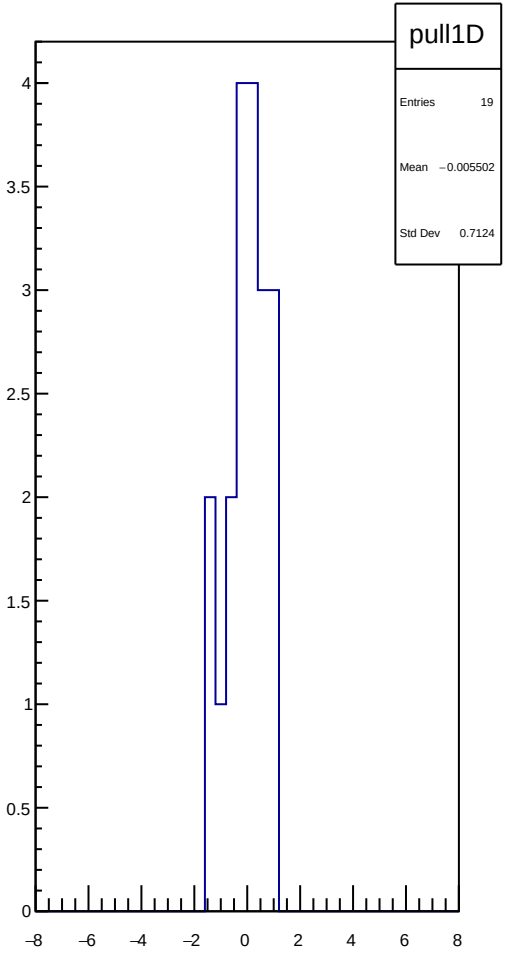

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 27.6 / 18
p0 29.66 ± 7.236
150
100
50
0
−50
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 305
Std Dev 298.3
3
2
1
0
−1
−2
−3

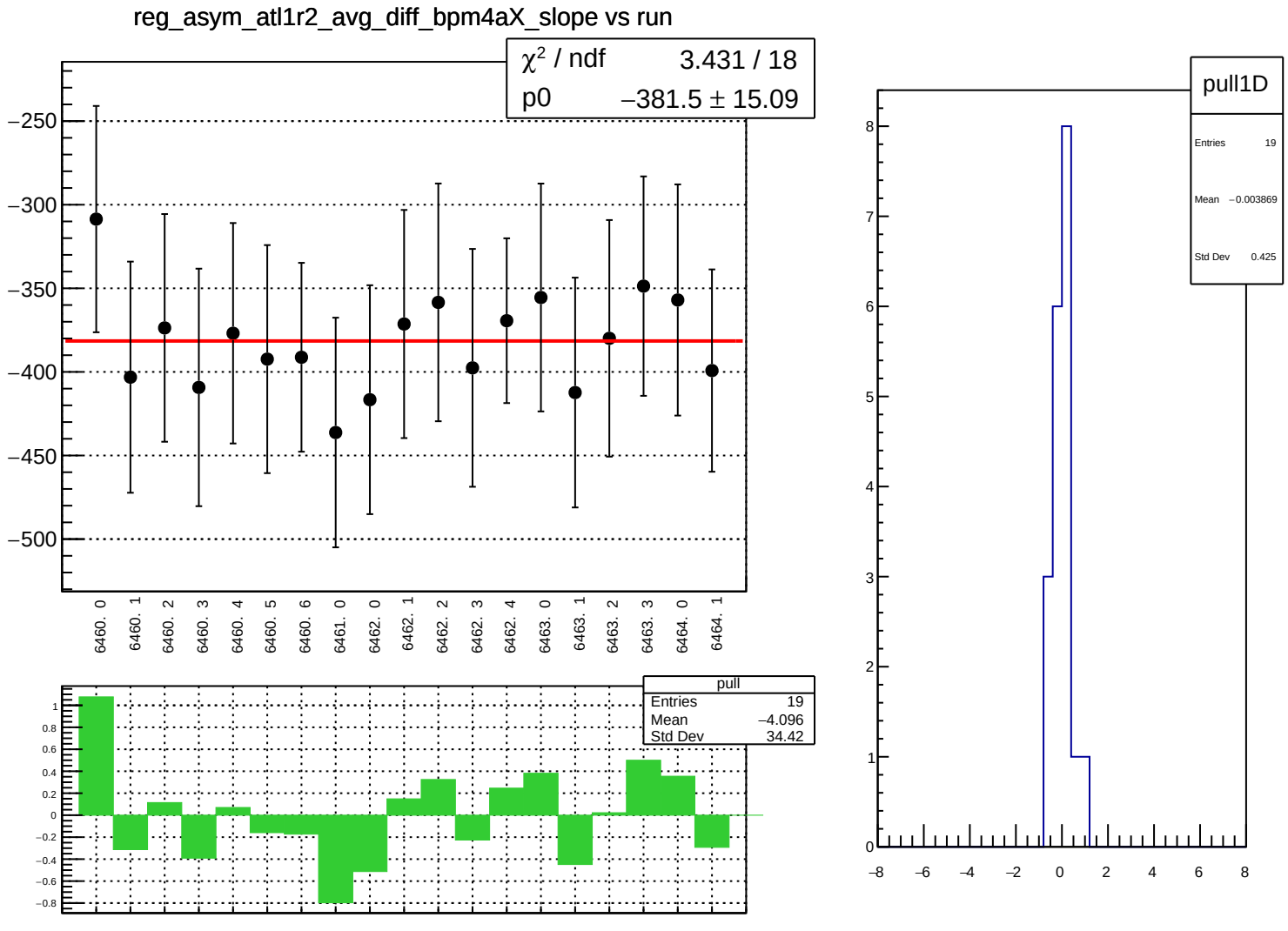

pull1D
Entries 19
Mean 0.006915
Std Dev 1.205
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

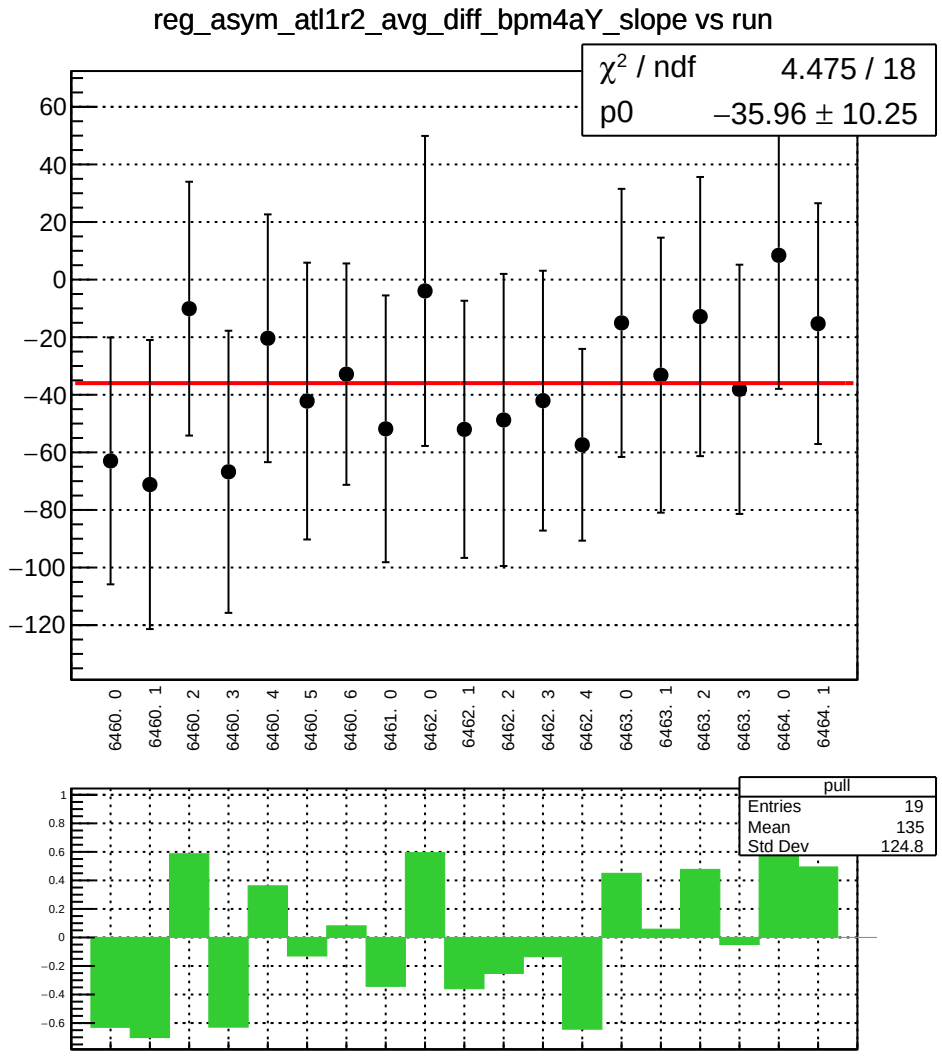

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 17.85 / 18
p0 −32.03 ± 4.625
40
20
0
−20
−40
−60
−80
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 111.4
Std Dev 102.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

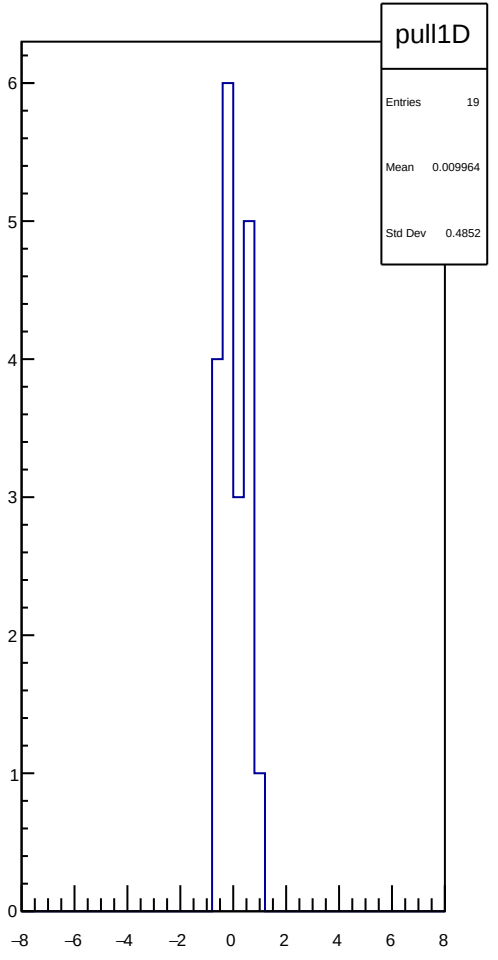

pull1D
Entries 19
Mean −0.01505
Std Dev 0.9693
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

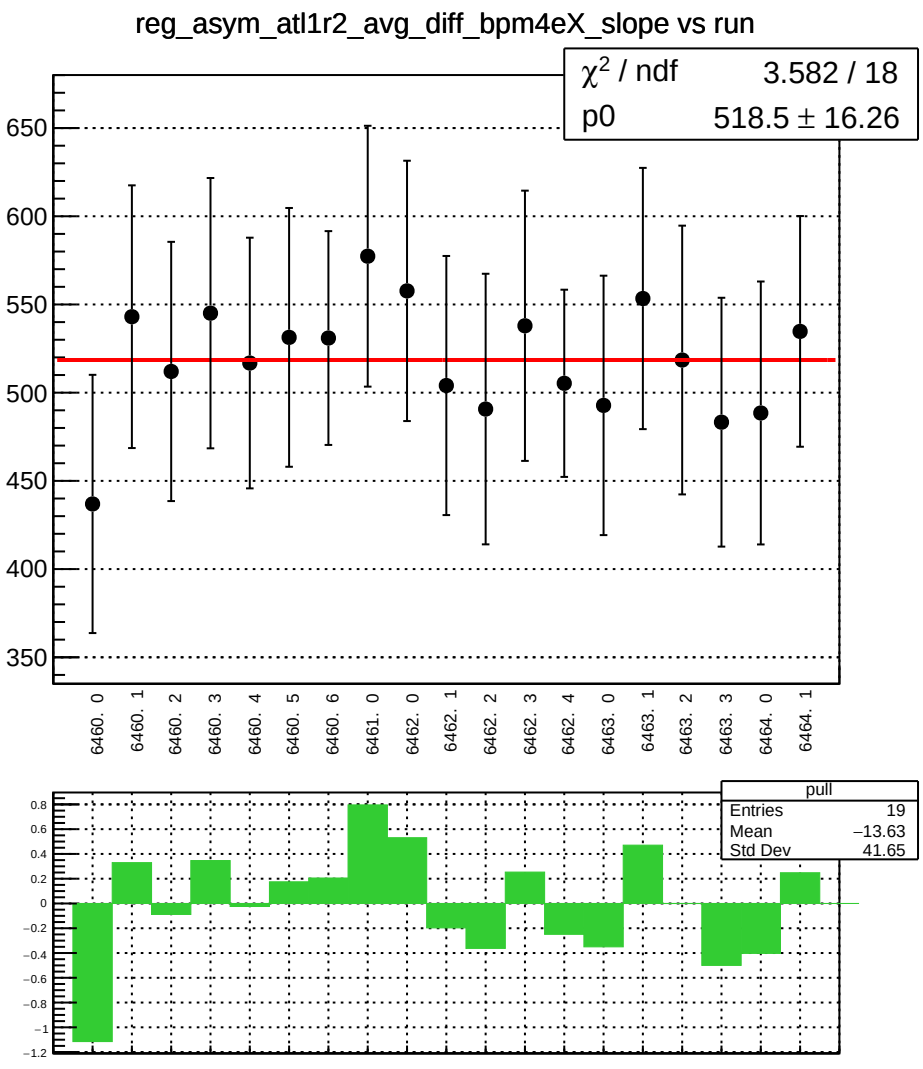

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 9.644 / 18
p0 19.12 ± 0.1941
21
20.5
20
19.5
19
18.5
18
17.5
17
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 316.6
Std Dev 306.5
1
0.5
0
−0.5
−1

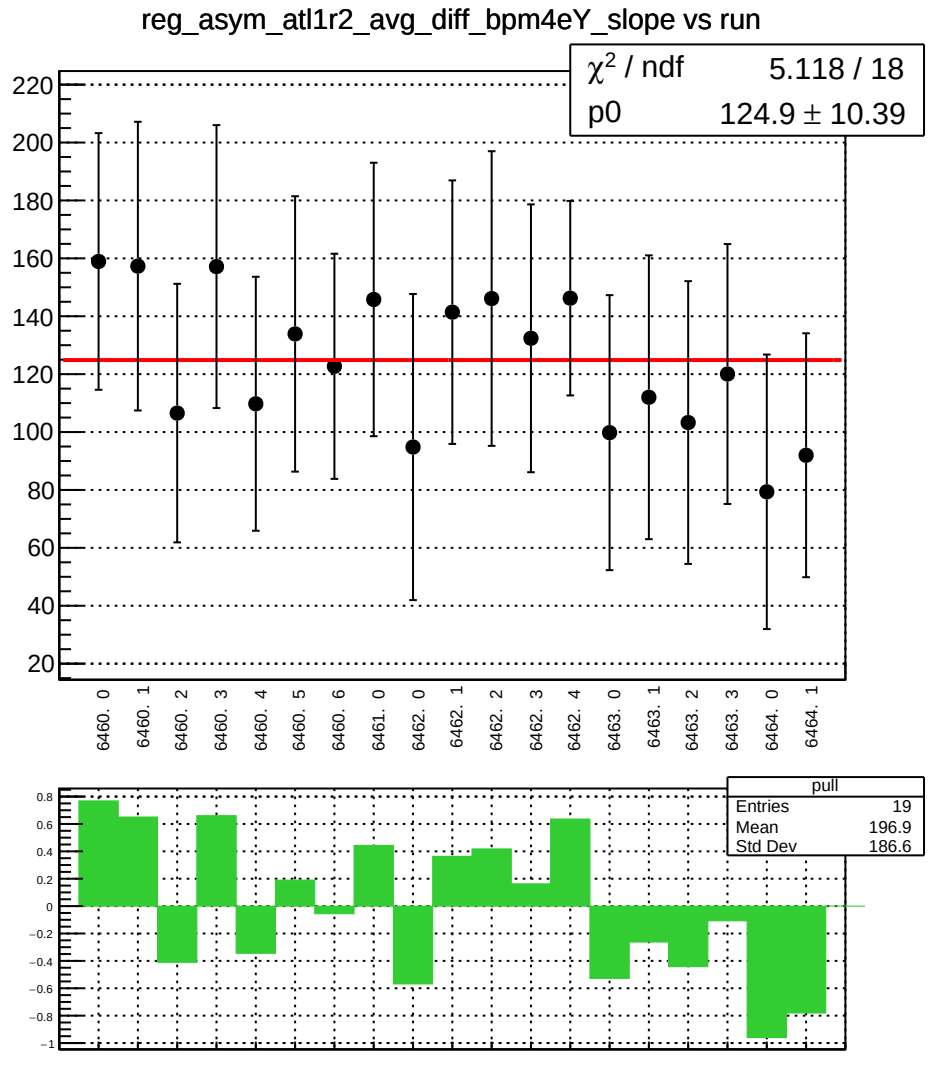

pull1D
Entries 19
Mean −0.005502
Std Dev 0.7124
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

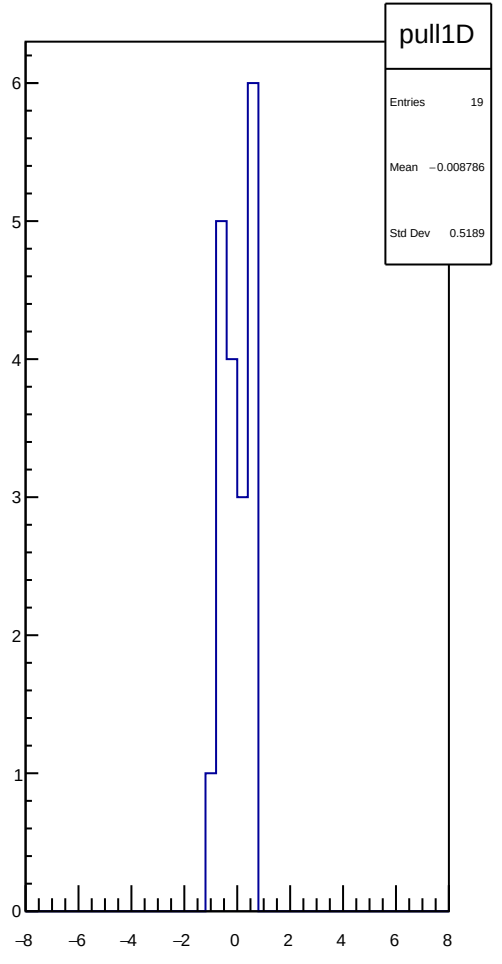

reg_asym_atl1r2_avg_diff_bpm4aX_slope vs run
χ² / ndf 3.431 / 18
p0 −381.5 ± 15.09
−250
−300
−350
−400
−450
−500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −4.096
Std Dev 34.42
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 19
Mean −0.003869
Std Dev 0.425
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

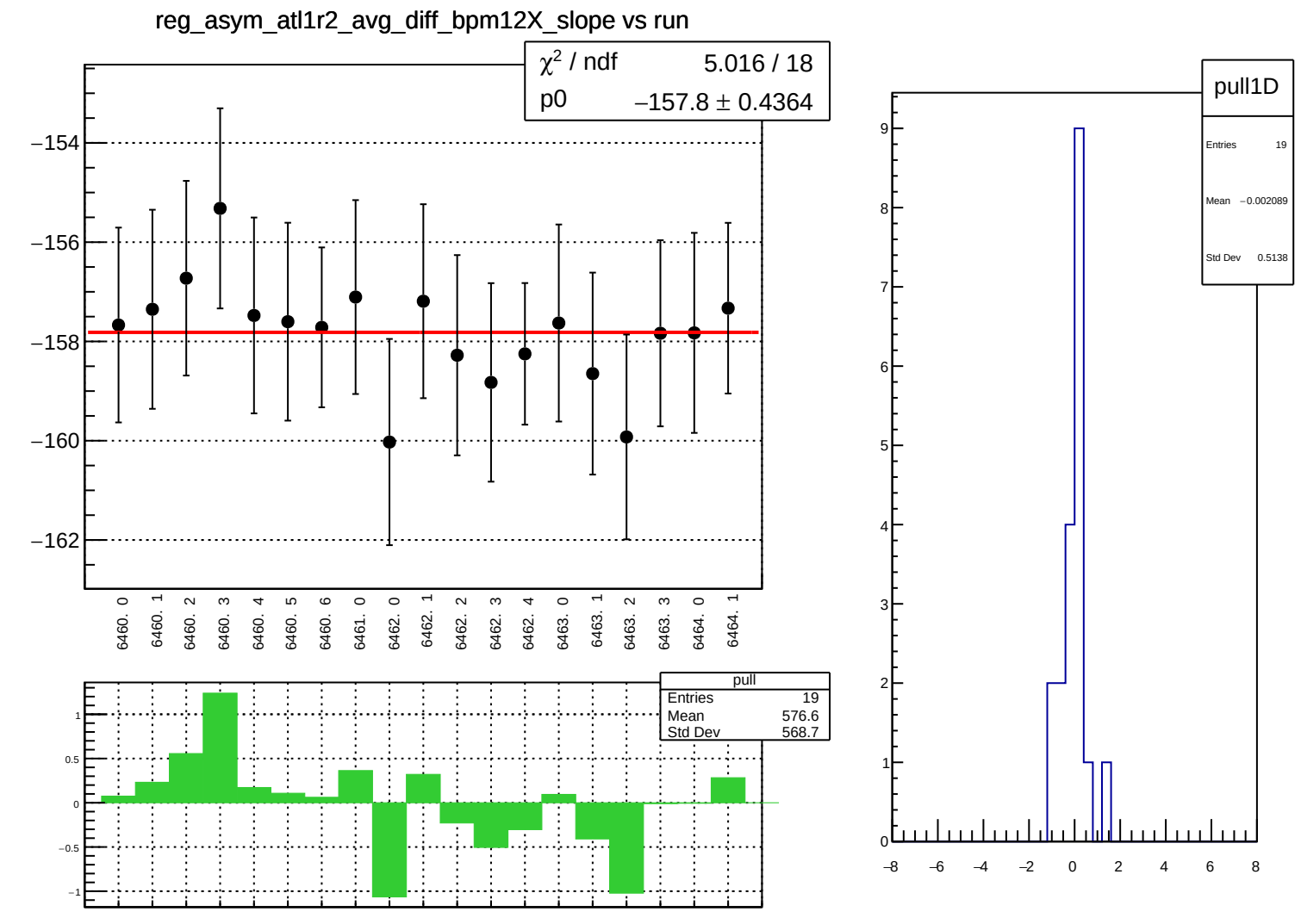

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.475 / 18
p0 −35.96 ± 10.25
60
40
20
0
−20
−40
−60
−80
−100
−120
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 135
Std Dev 124.8
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

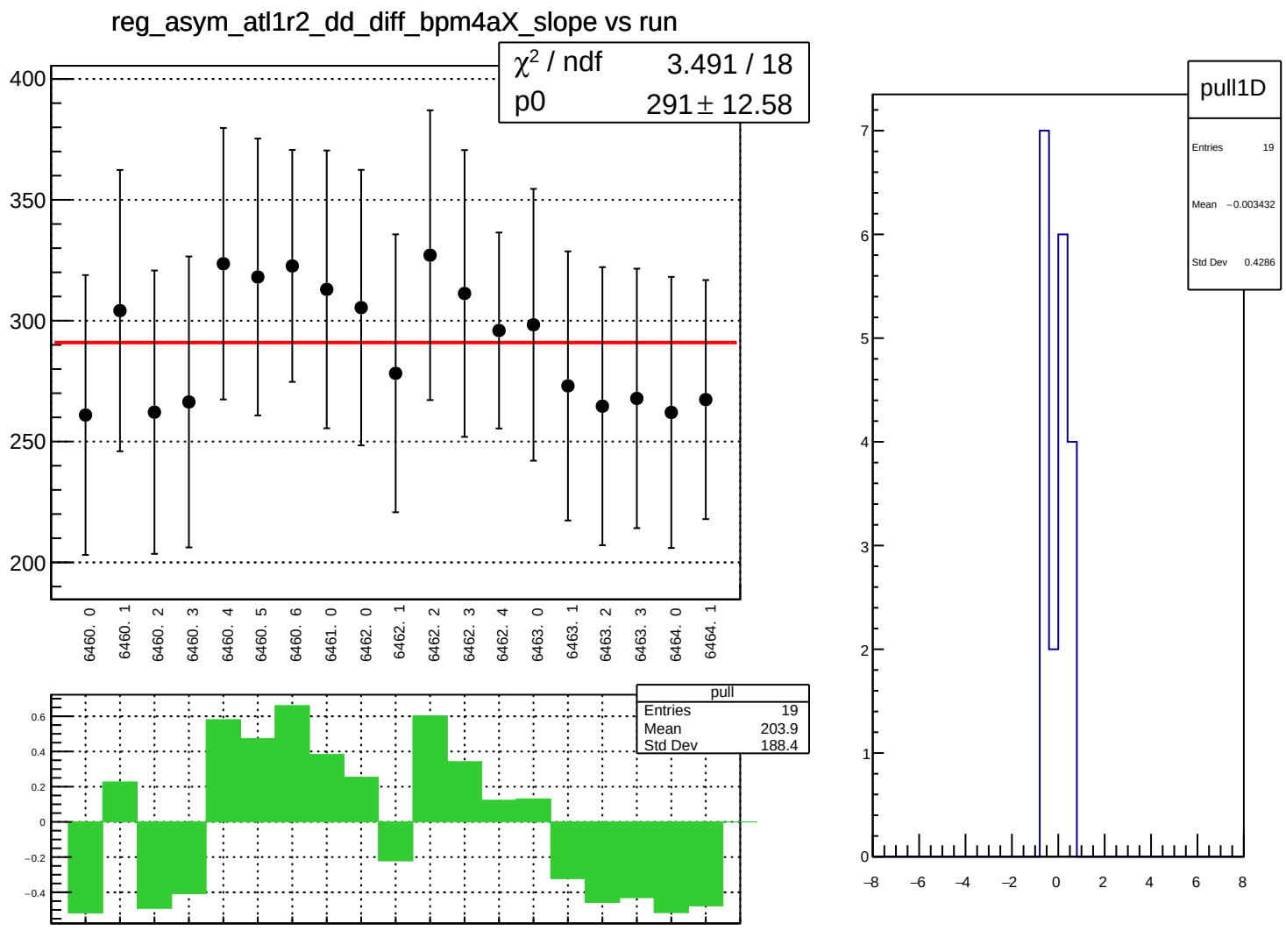

pull1D
Entries 19
Mean 0.009964
Std Dev 0.4852
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

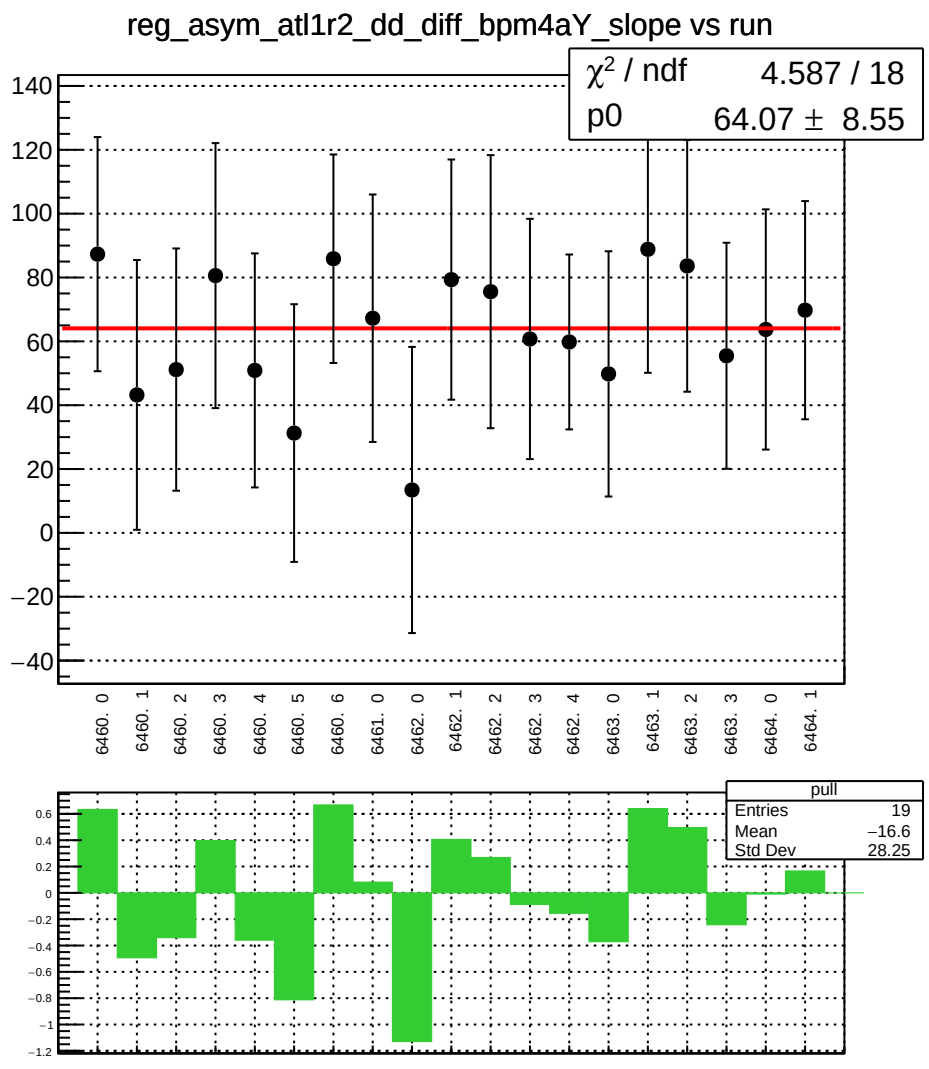

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.582 / 18
p0 518.5 ± 16.26
650
600
550
500
450
400
350
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −13.63
Std Dev 41.65
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 19
Mean 0.003464
Std Dev 0.4342
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

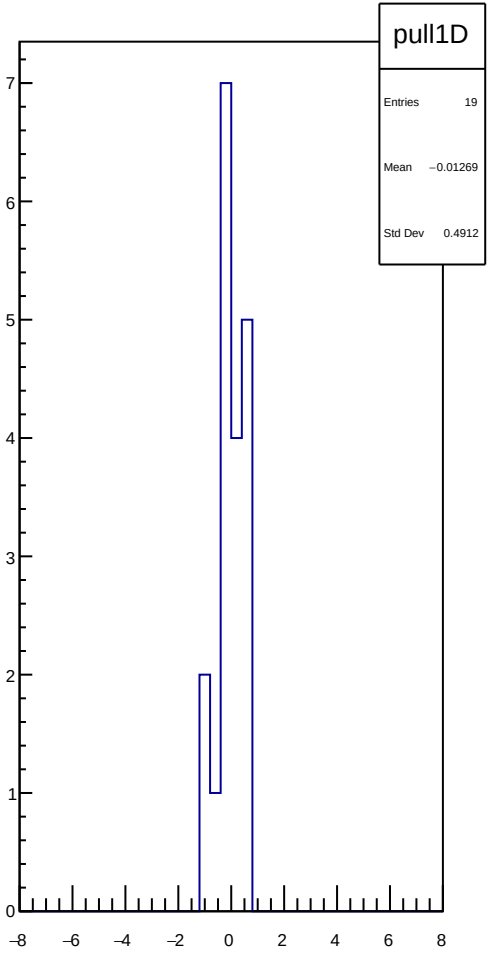

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.118 / 18
p0 124.9 ± 10.39
220
200
180
160
140
120
100
80
60
40
20
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 196.9
Std Dev 186.6
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

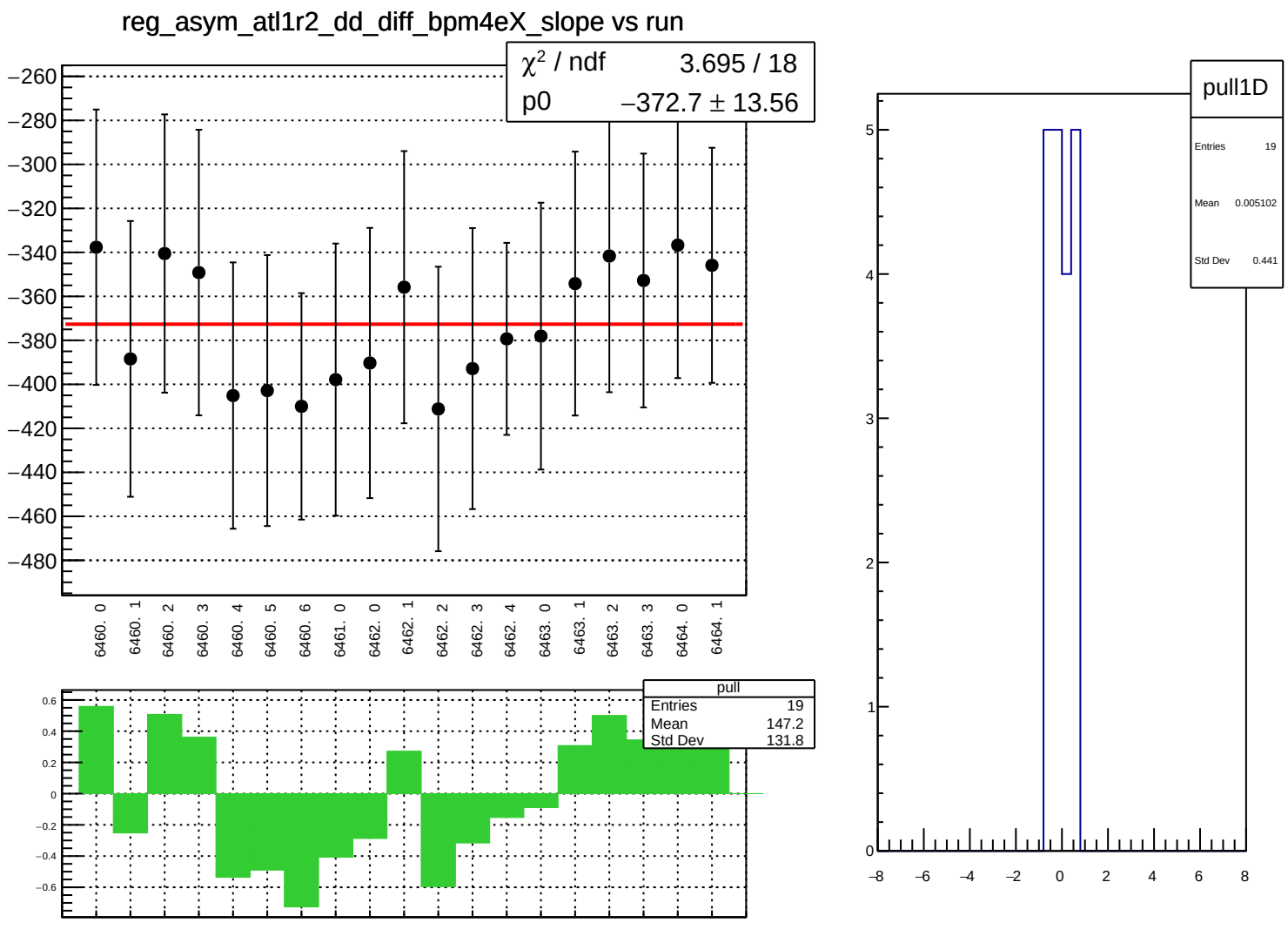

pull1D
Entries 19
Mean −0.008786
Std Dev 0.5189
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

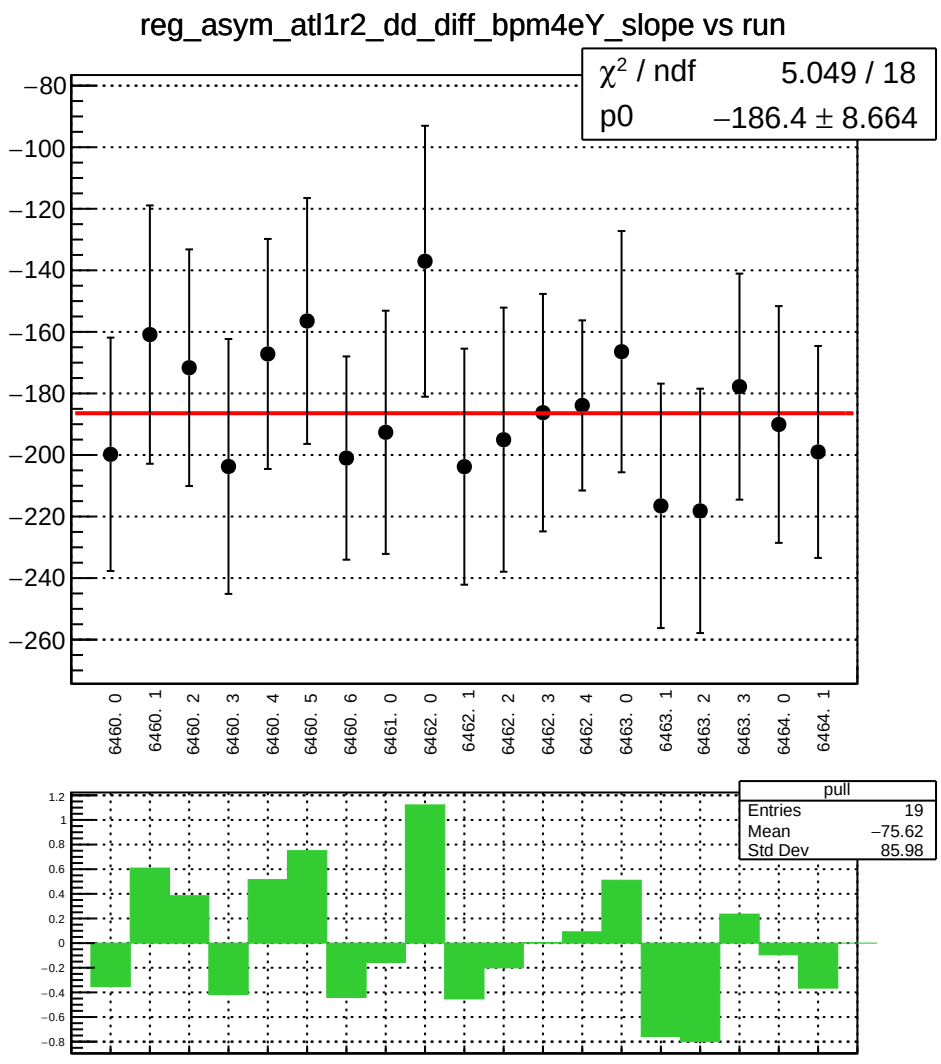

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 5.016 / 18
p0 −157.8 ± 0.4364
−154
−156
−158
−160
−162
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 576.6
Std Dev 568.7
1
0.5
0
−0.5
−1
pull1D
Entries 19
Mean −0.002089
Std Dev 0.5138
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

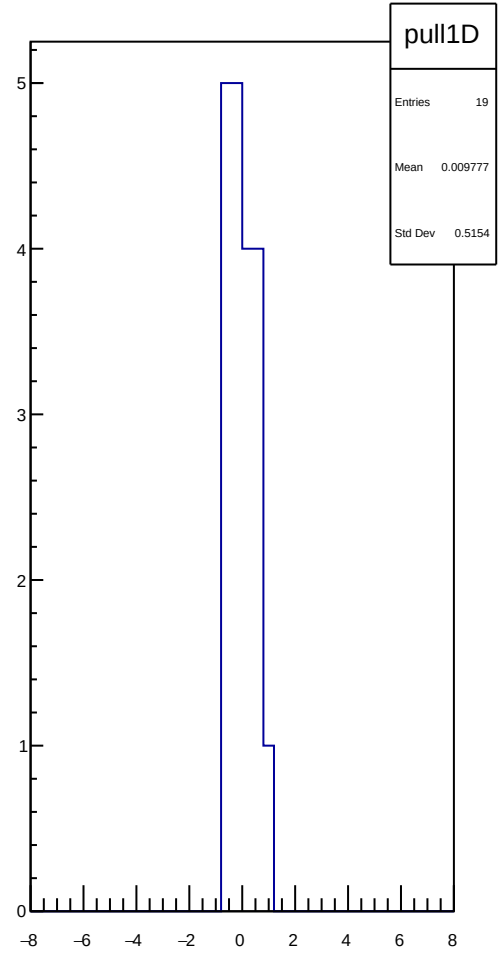

reg_asym_atl1r2_dd_diff_bpm4aX_slope vs run
χ² / ndf 3.491 / 18
p0 291 ± 12.58
400
350
300
250
200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 203.9
Std Dev 188.4
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 19
Mean −0.003432
Std Dev 0.4286
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

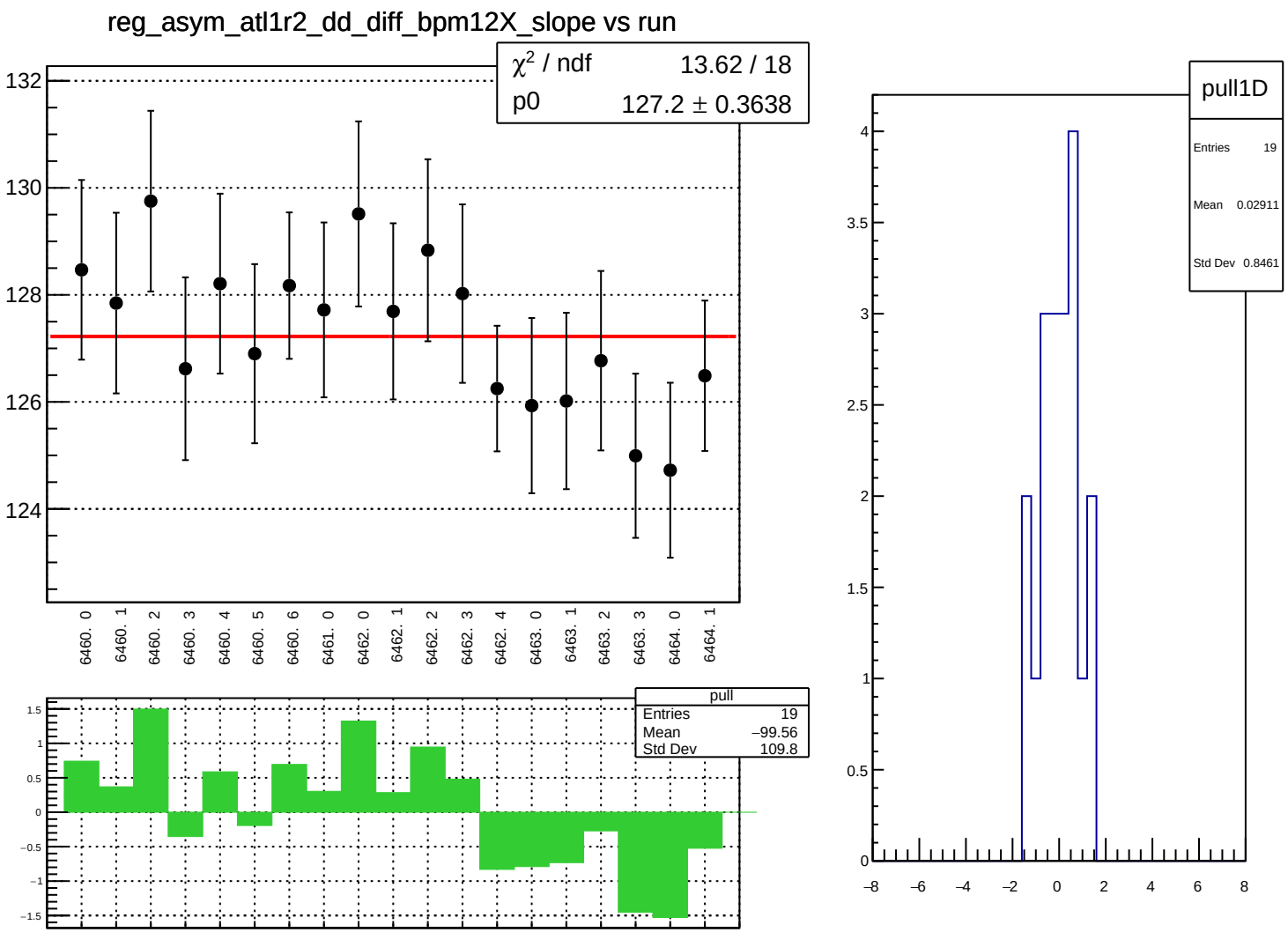

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.587 / 18
p0 64.07 ± 8.55
140
120
100
80
60
40
20
0
−20
−40
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −16.6
Std Dev 28.25
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

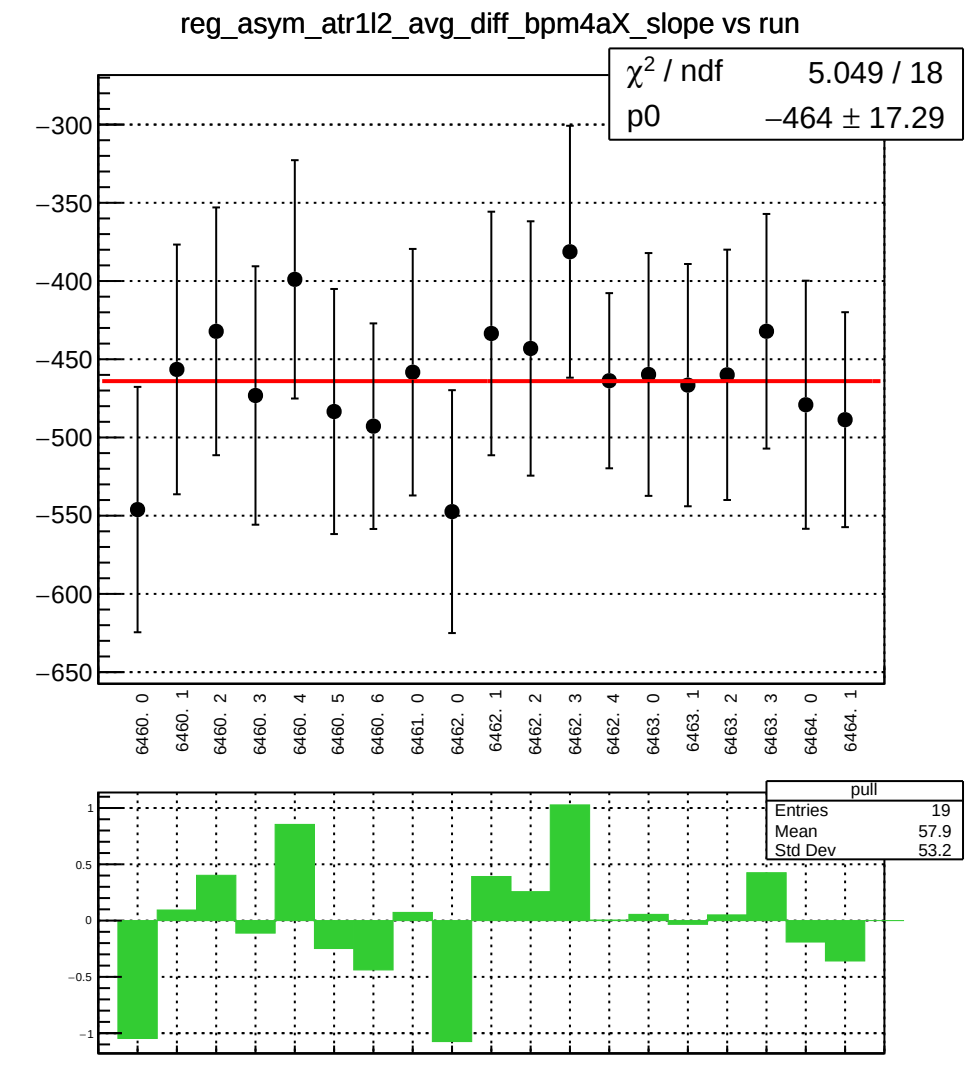

pull1D
Entries 19
Mean −0.01269
Std Dev 0.4912
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

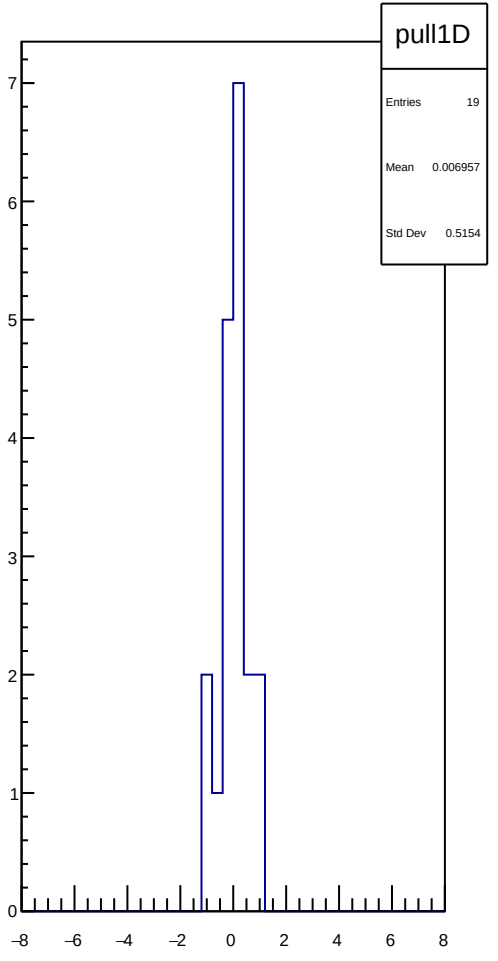

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.695 / 18
p0 −372.7 ± 13.56
−260
−280
−300
−320
−340
−360
−380
−400
−420
−440
−460
−480
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 147.2
Std Dev 131.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 19
Mean 0.005102
Std Dev 0.441
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

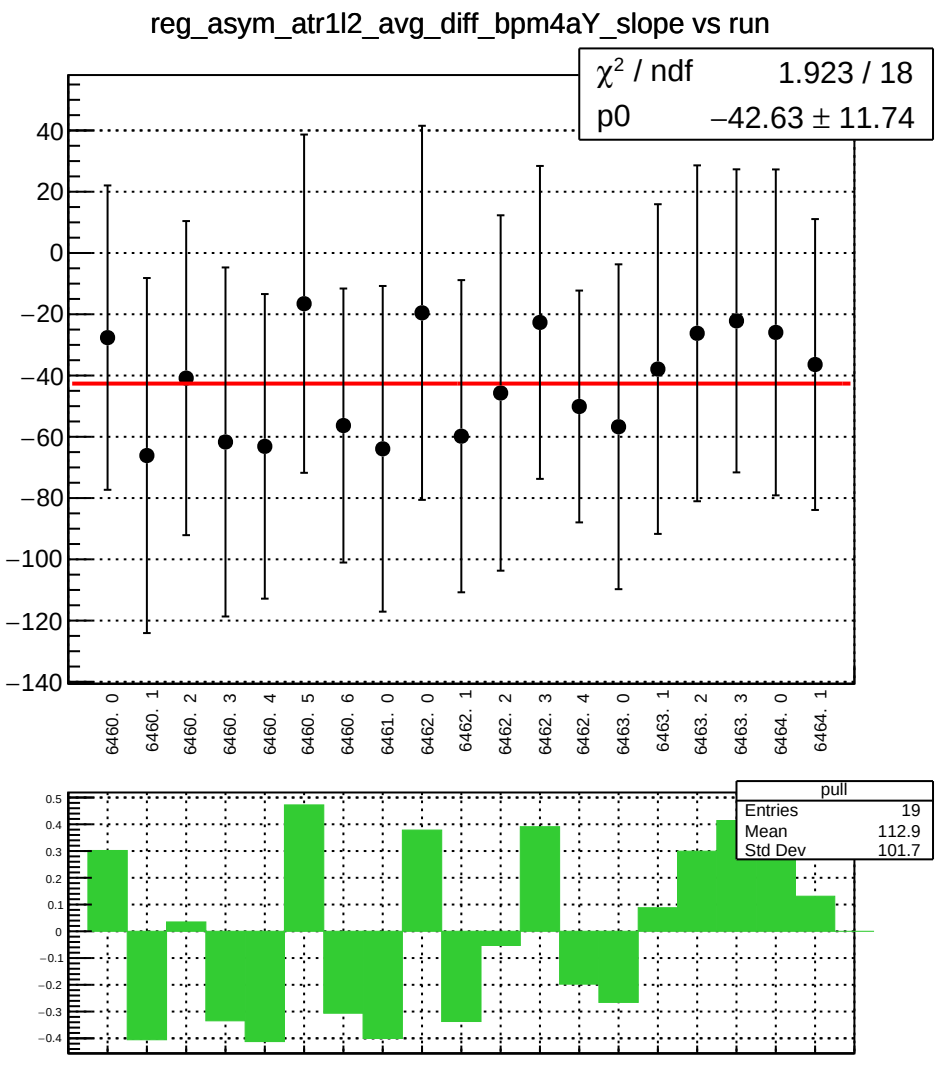

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.049 / 18
p0 −186.4 ± 8.664
−80
−100
−120
−140
−160
−180
−200
−220
−240
−260
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −75.62
Std Dev 85.98
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

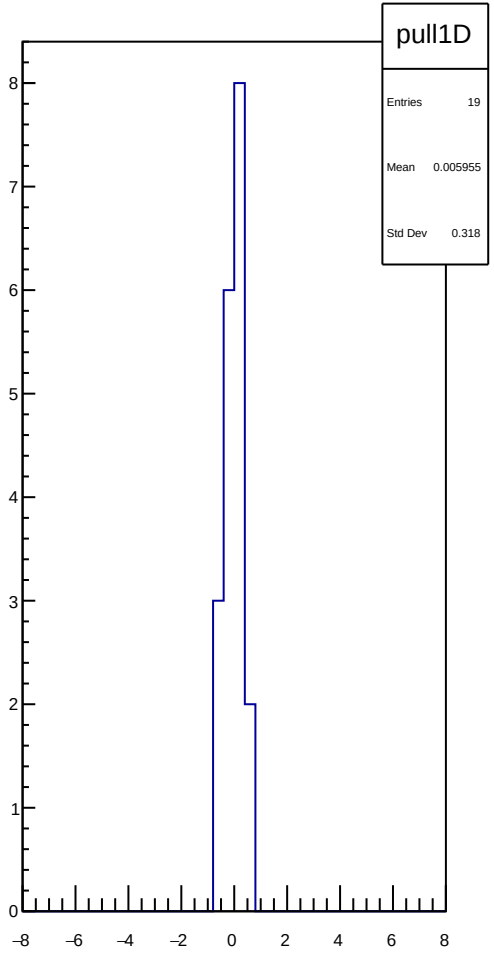

pull1D
Entries 19
Mean 0.009777
Std Dev 0.5154
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

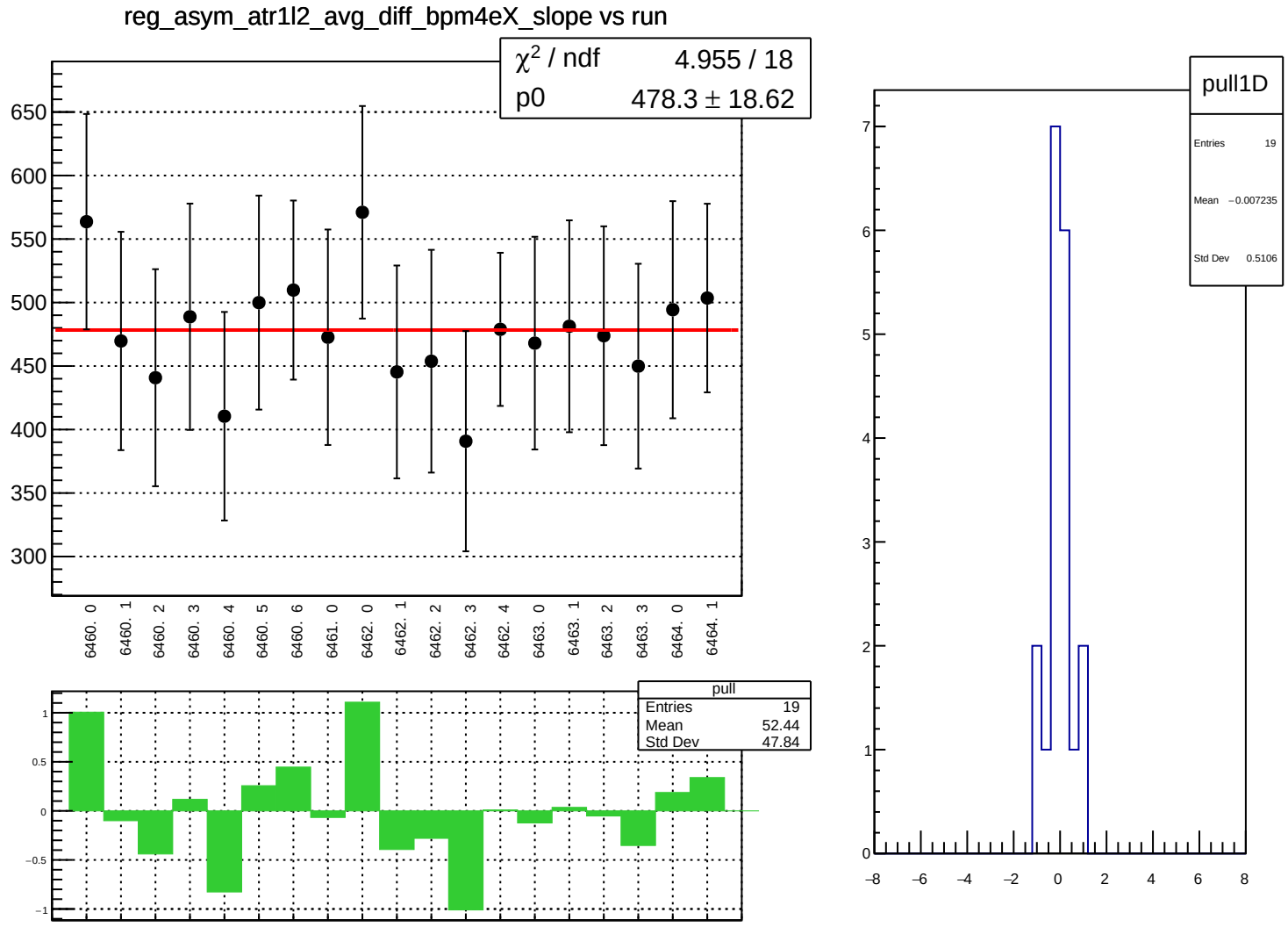

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 13.62 / 18
p0 127.2 ± 0.3638
132
130
128
126
124
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −99.56
Std Dev 109.8
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 19
Mean 0.02911
Std Dev 0.8461
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

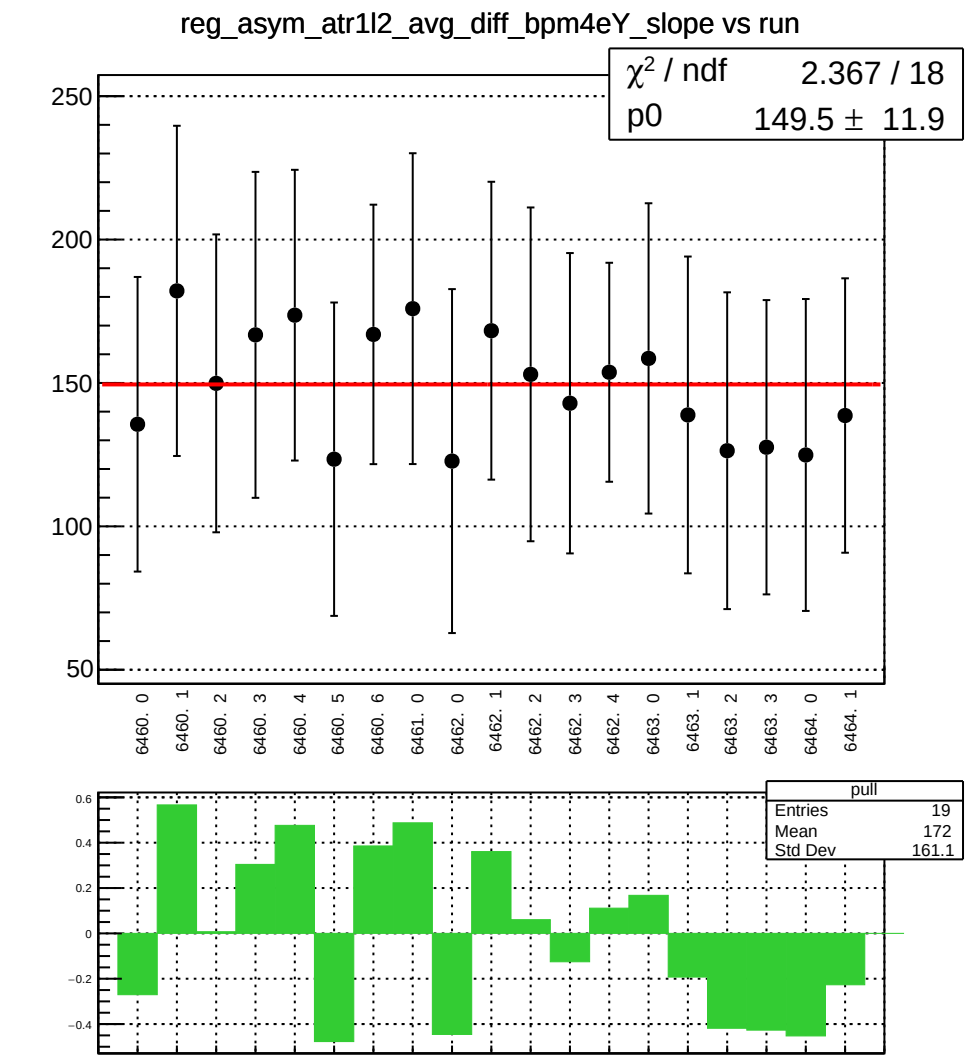

reg_asym_atr1l2_avg_diff_bpm4aX_slope vs run
χ² / ndf 5.049 / 18
p0 −464 ± 17.29
−300
−350
−400
−450
−500
−550
−600
−650
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 57.9
Std Dev 53.2
1
0.5
0
−0.5
−1

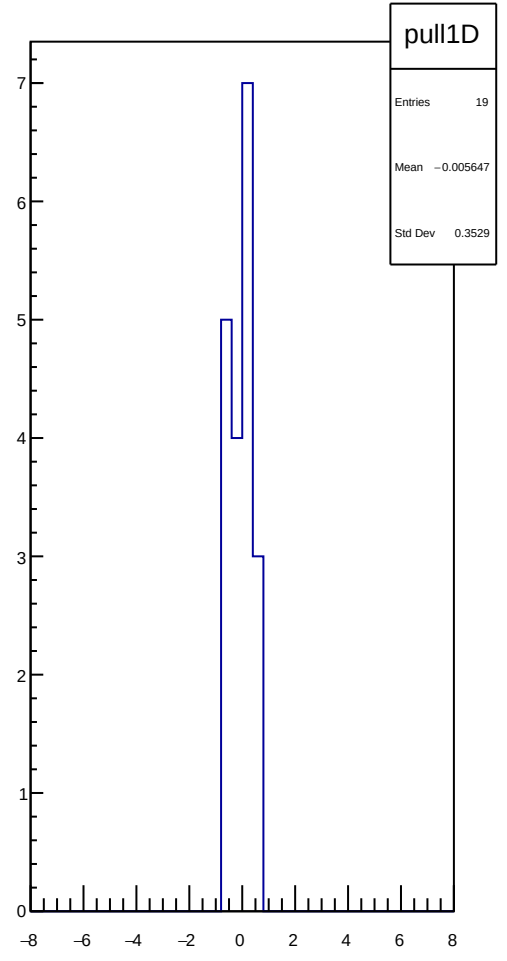

pull1D
Entries 19
Mean 0.006957
Std Dev 0.5154
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

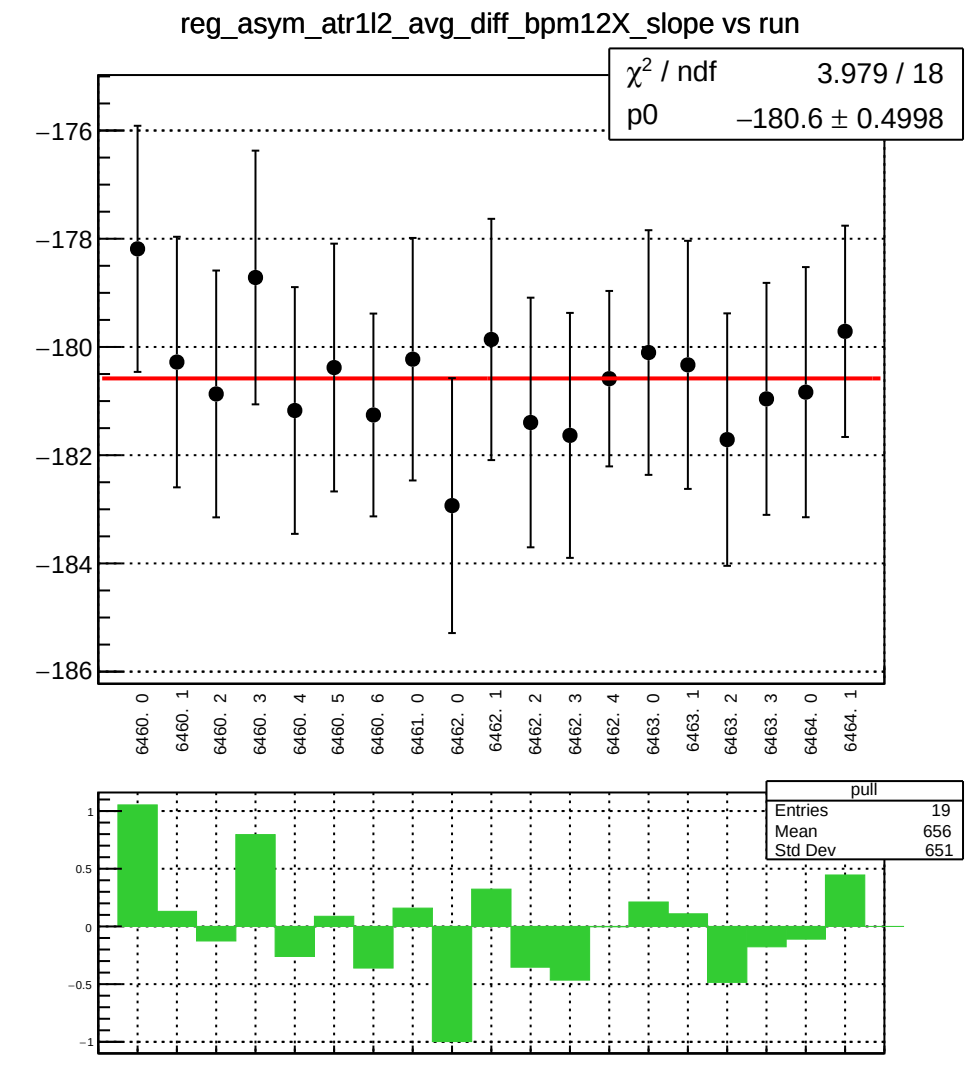

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.923 / 18
p0 −42.63 ± 11.74
40
20
0
−20
−40
−60
−80
−100
−120
−140
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 112.9
Std Dev 101.7
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

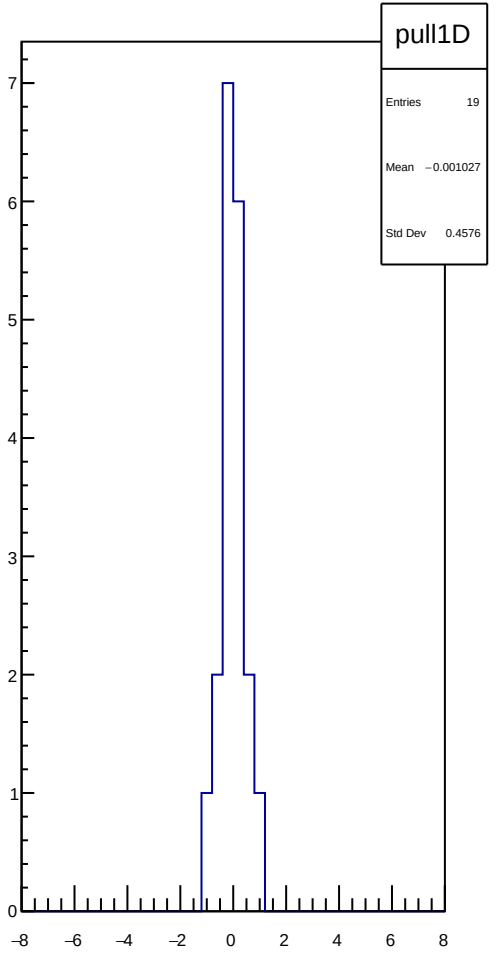

pull1D
Entries 19
Mean 0.005955
Std Dev 0.318
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

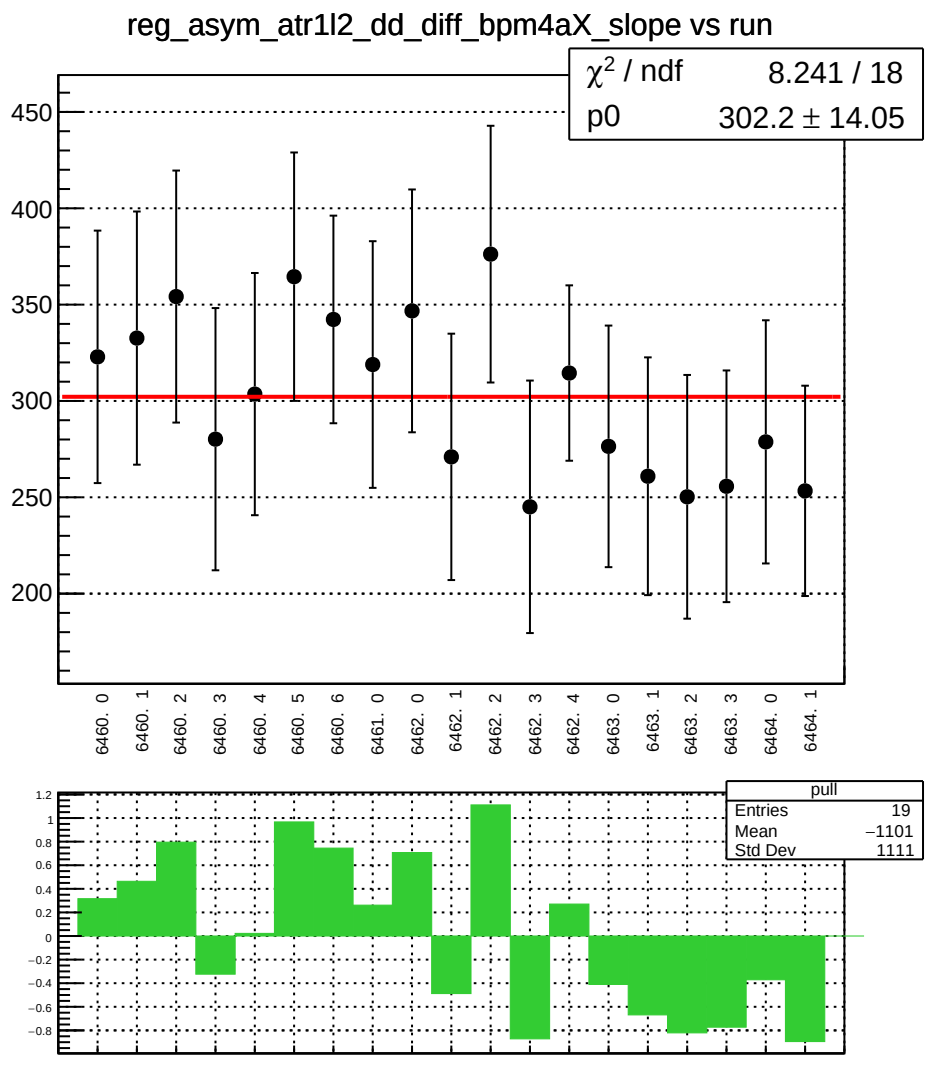

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.955 / 18
p0 478.3 ± 18.62
650
600
550
500
450
400
350
300
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 52.44
Std Dev 47.84
1
0.5
0
−0.5
−1
pull1D
Entries 19
Mean −0.007235
Std Dev 0.5106
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

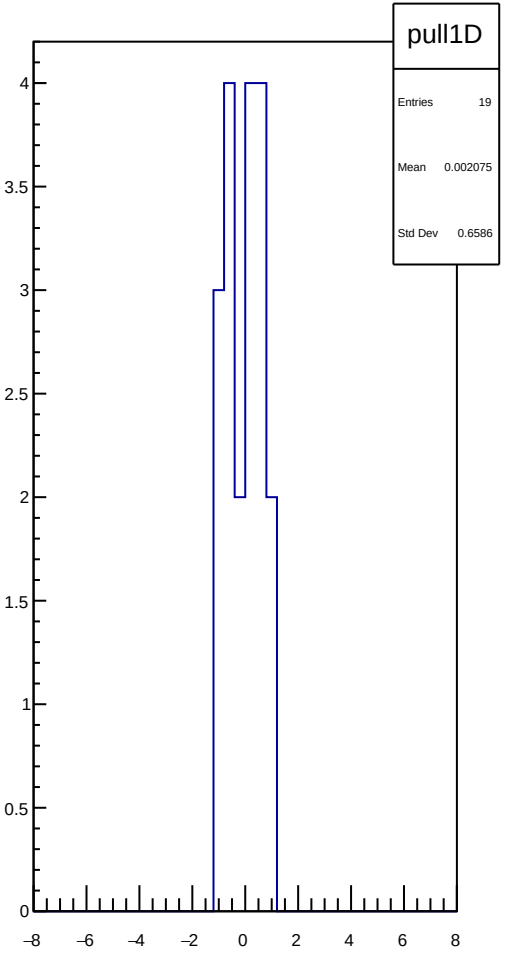

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.367 / 18
p0 149.5 ± 11.9
250
200
150
100
50
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 172
Std Dev 161.1
0.6
0.4
0.2
0
−0.2
−0.4

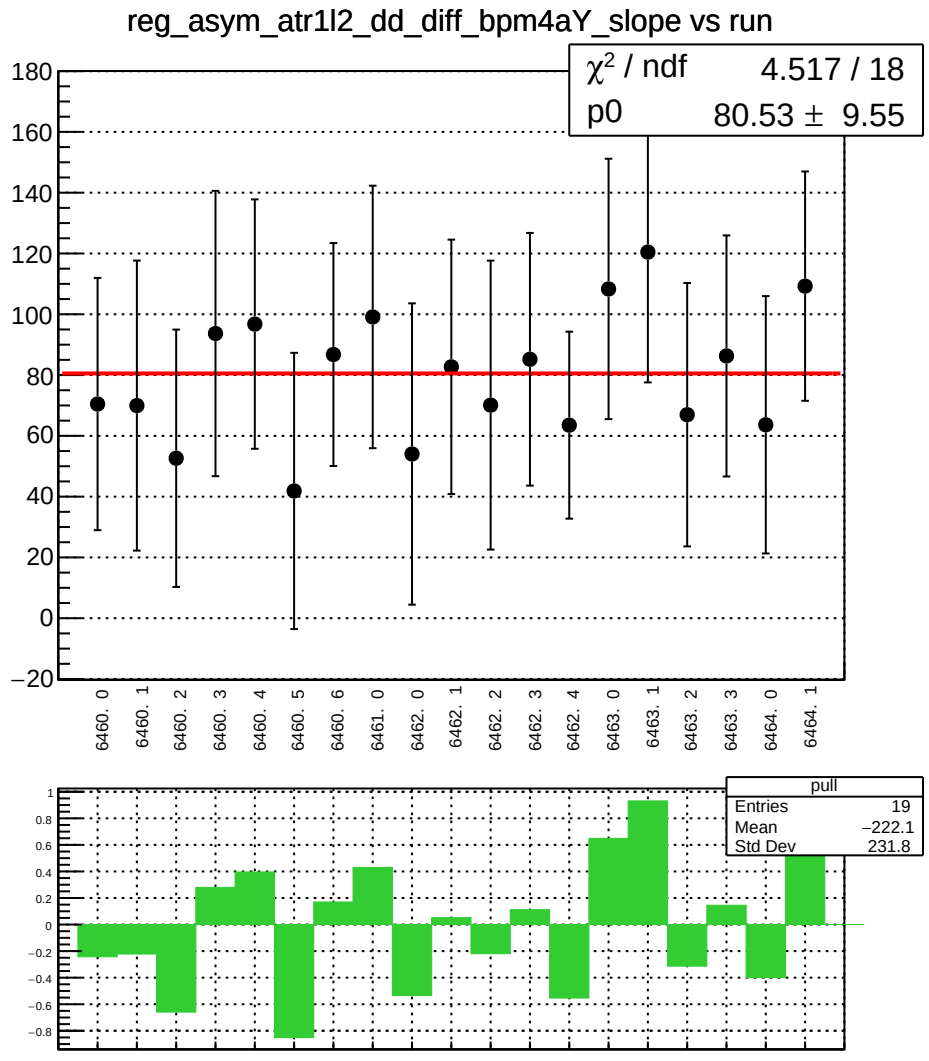

pull1D
Entries 19
Mean −0.005647
Std Dev 0.3529
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

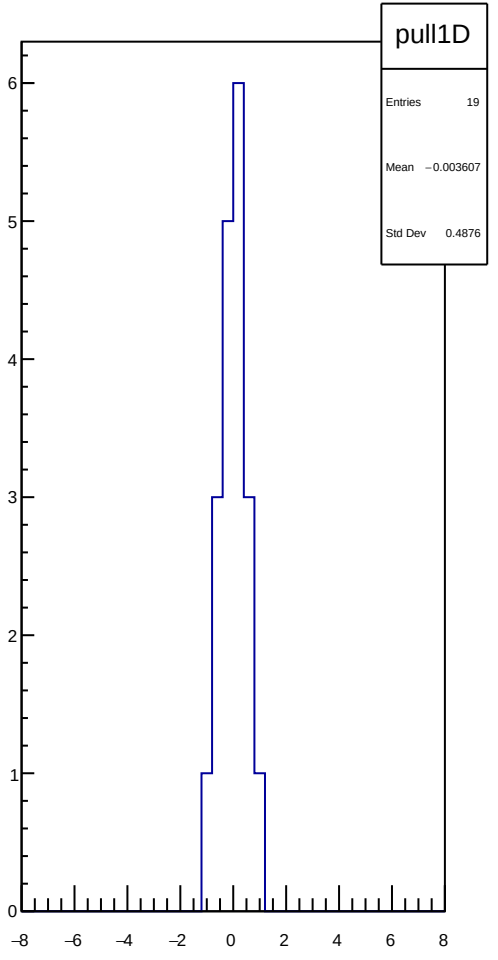

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 3.979 / 18
p0 −180.6 ± 0.4998
−176
−178
−180
−182
−184
−186
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 656
Std Dev 651
1
0.5
0
−0.5
−1

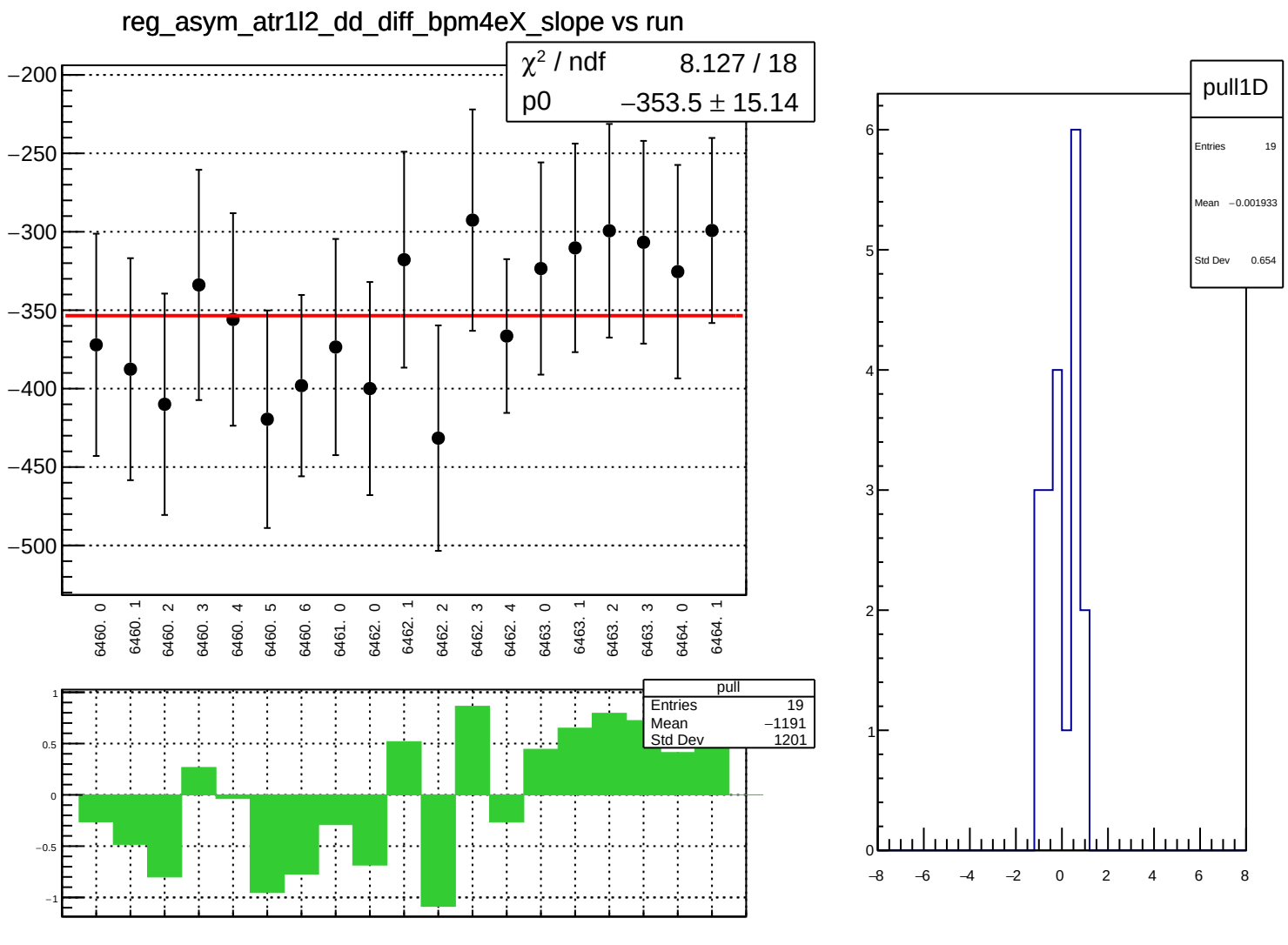

pull1D
Entries 19
Mean −0.001027
Std Dev 0.4576
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

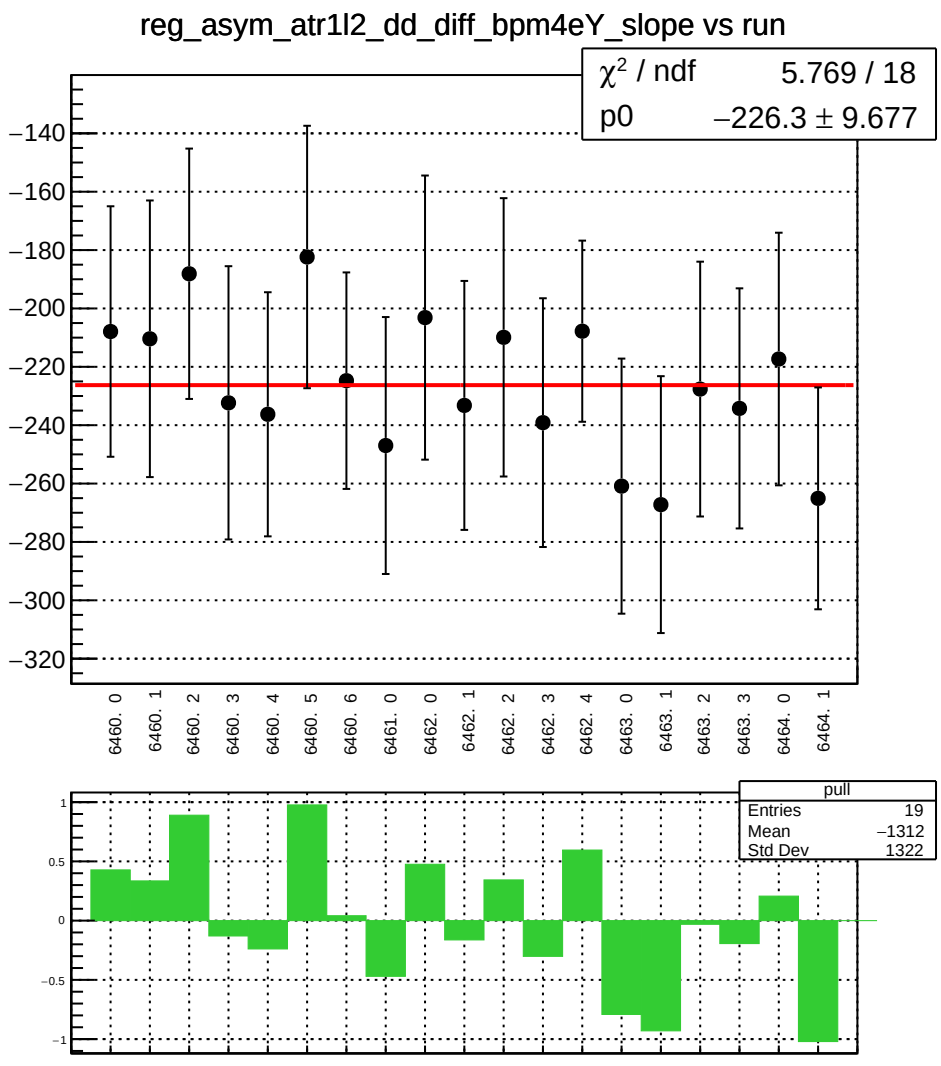

reg_asym_atr1l2_dd_diff_bpm4aX_slope vs run
χ² / ndf 8.241 / 18
p0 302.2 ± 14.05
450
400
350
300
250
200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −1101
Std Dev 1111
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

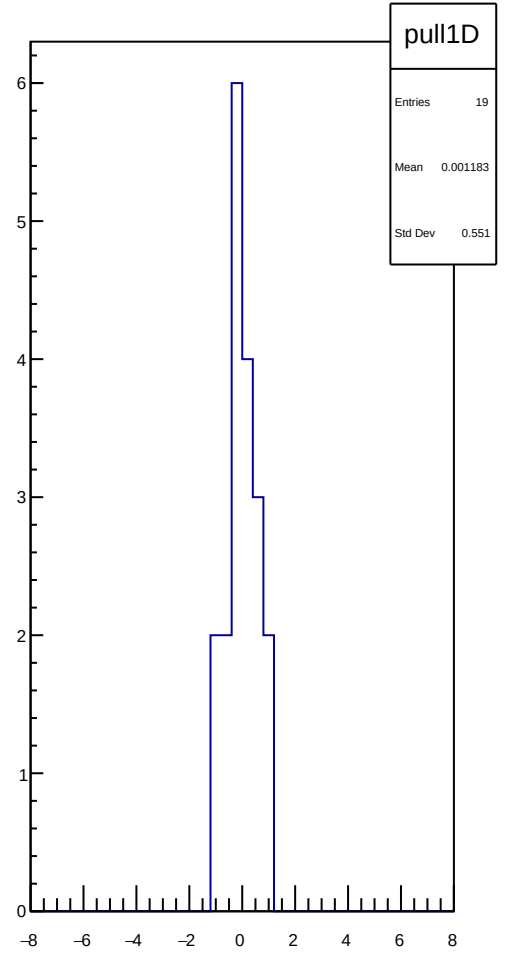

pull1D
Entries 19
Mean 0.002075
Std Dev 0.6586
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

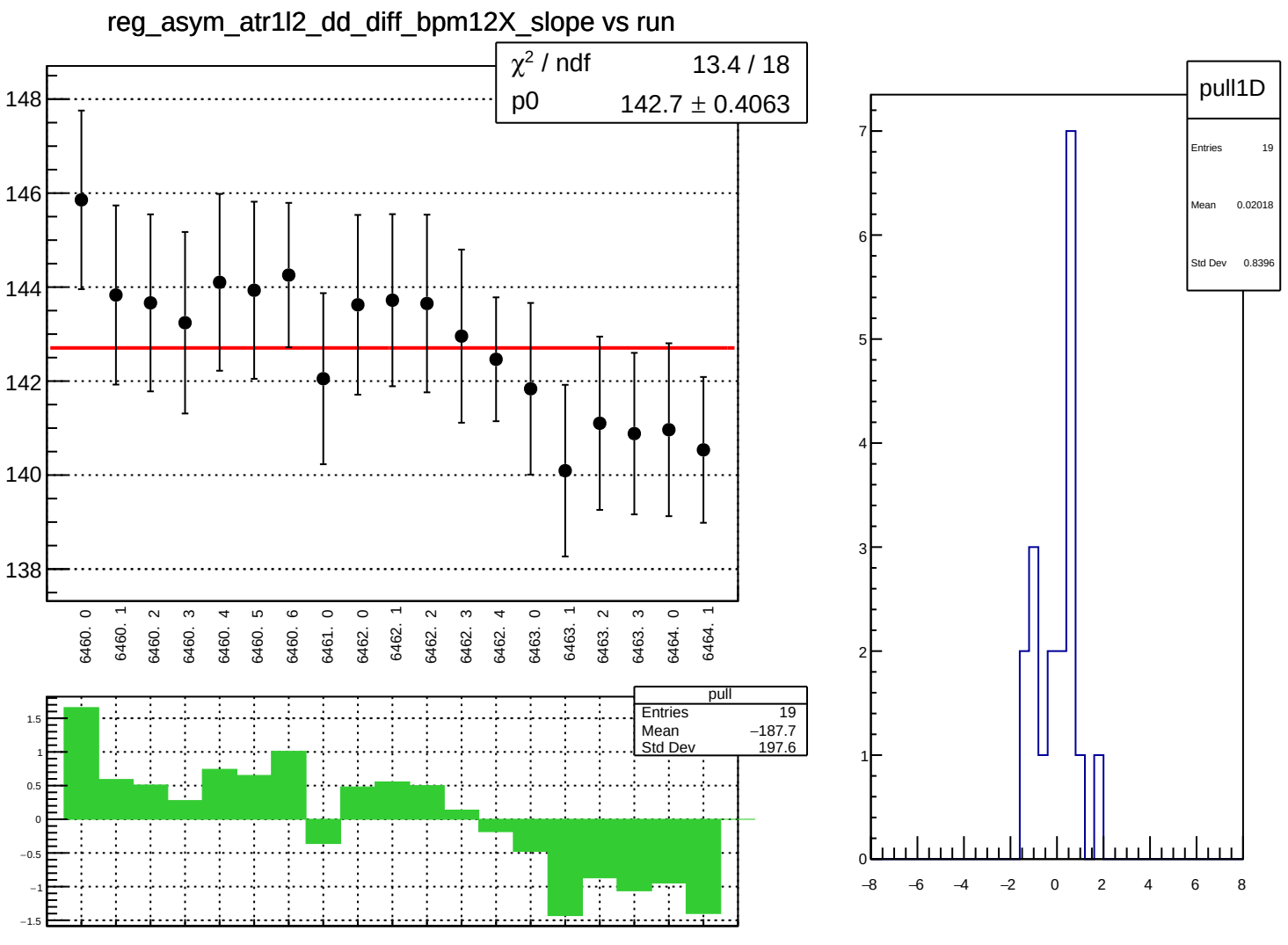

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.517 / 18
p0 80.53 ± 9.55
180
160
140
120
100
80
60
40
20
0
−20
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −222.1
Std Dev 231.8
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

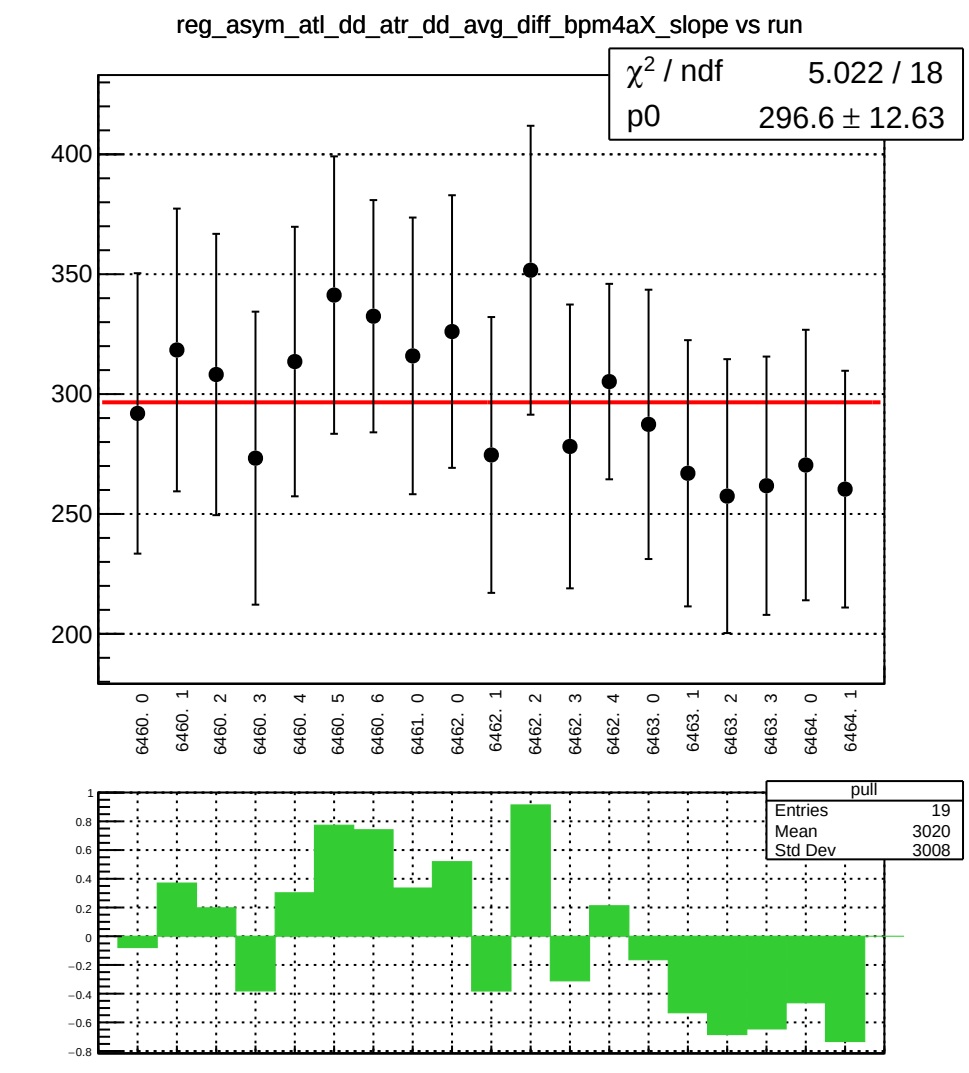

pull1D
Entries 19
Mean −0.003607
Std Dev 0.4876
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

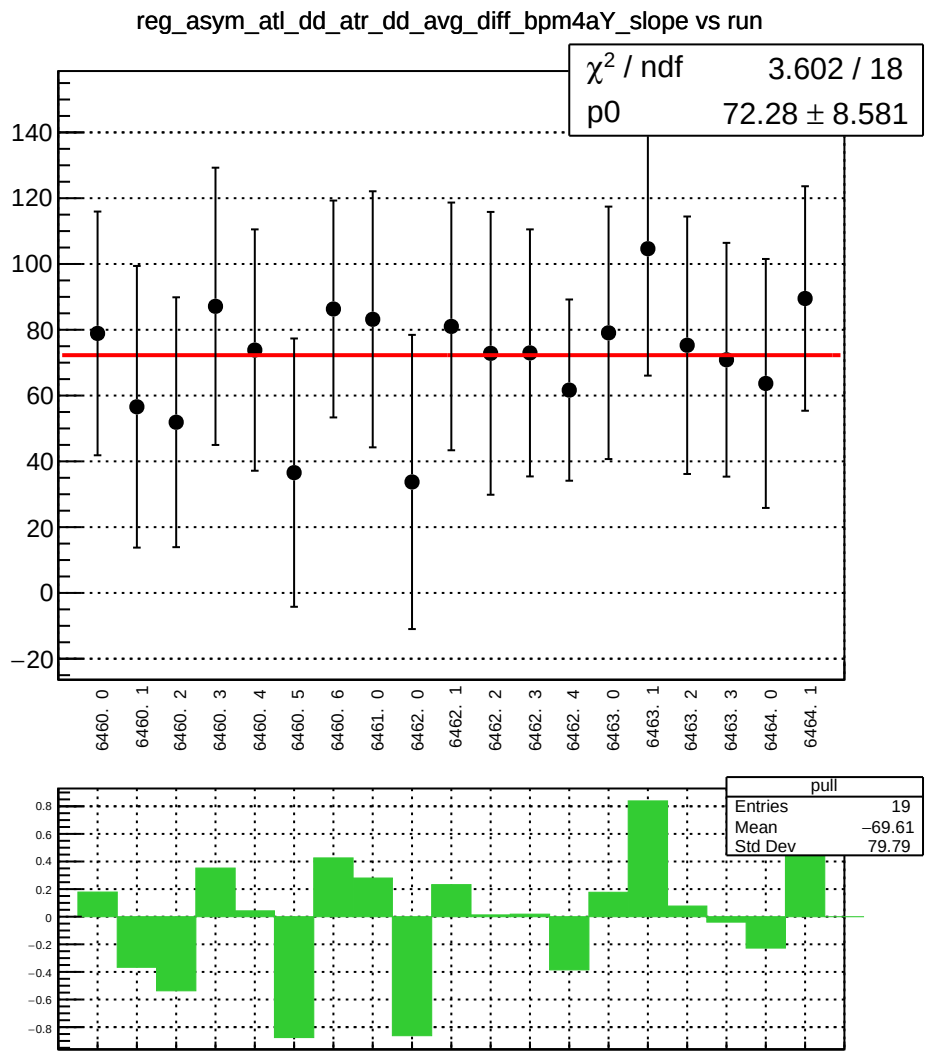

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 8.127 / 18
p0 −353.5 ± 15.14
−200
−250
−300
−350
−400
−450
−500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −1191
Std Dev 1201
1
0.5
0
−0.5
−1
pull1D
Entries 19
Mean −0.001933
Std Dev 0.654
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

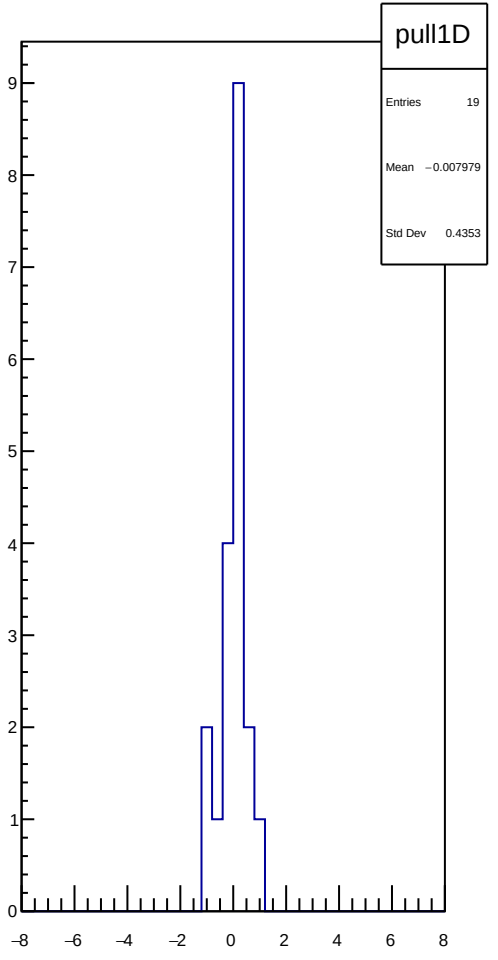

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.769 / 18
p0 −226.3 ± 9.677
−140
−160
−180
−200
−220
−240
−260
−280
−300
−320
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −1312
Std Dev 1322
1
0.5
0
−0.5
−1

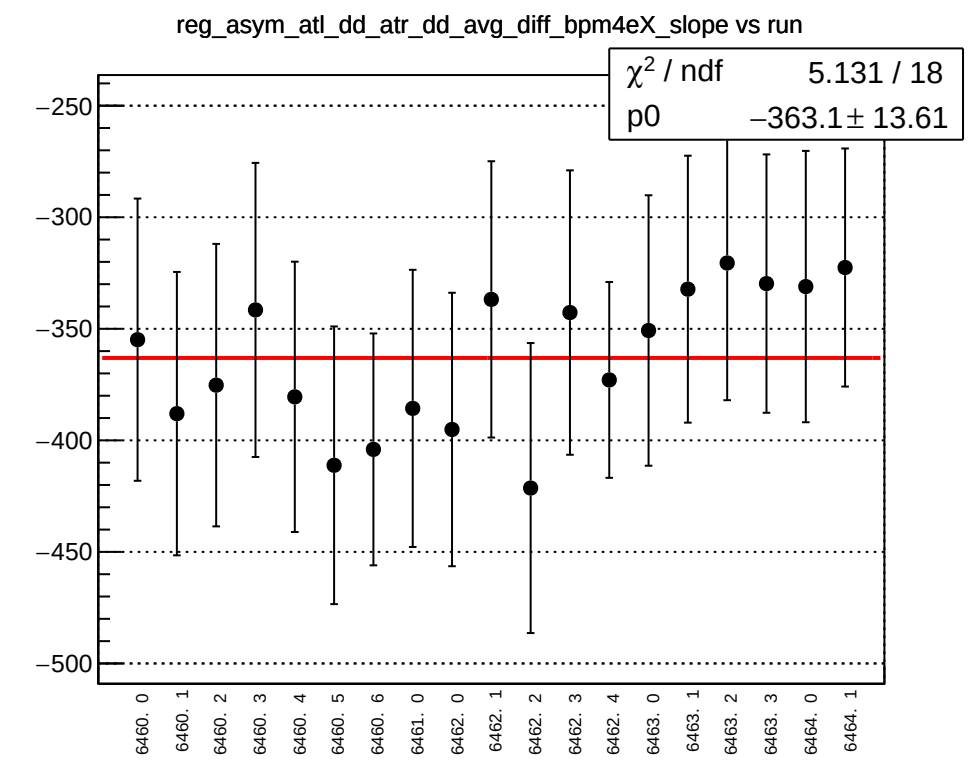

pull1D
Entries 19
Mean 0.001183
Std Dev 0.551
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

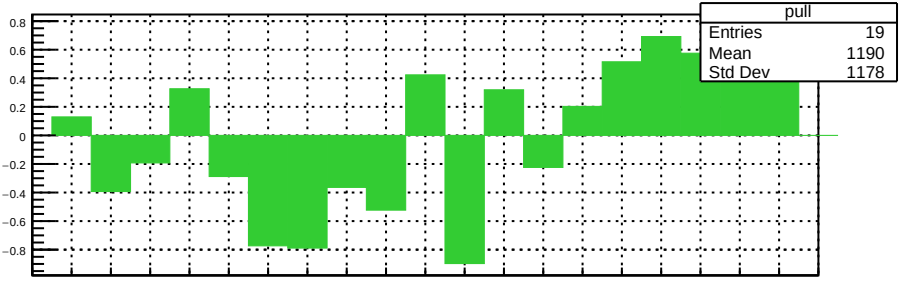

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 13.4 / 18
p0 142.7 ± 0.4063
148
146
144
142
140
138
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −187.7
Std Dev 197.6
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 19
Mean 0.02018
Std Dev 0.8396
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

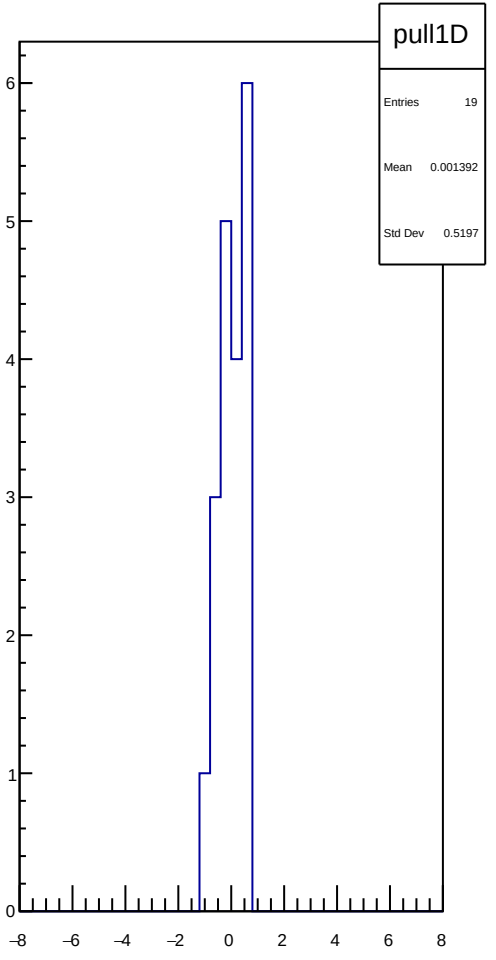

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aX_slope vs run
χ² / ndf 5.022 / 18
p0 296.6 ± 12.63
400
350
300
250
200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 3020
Std Dev 3008
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 19
Mean −0.0005368
Std Dev 0.5141
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

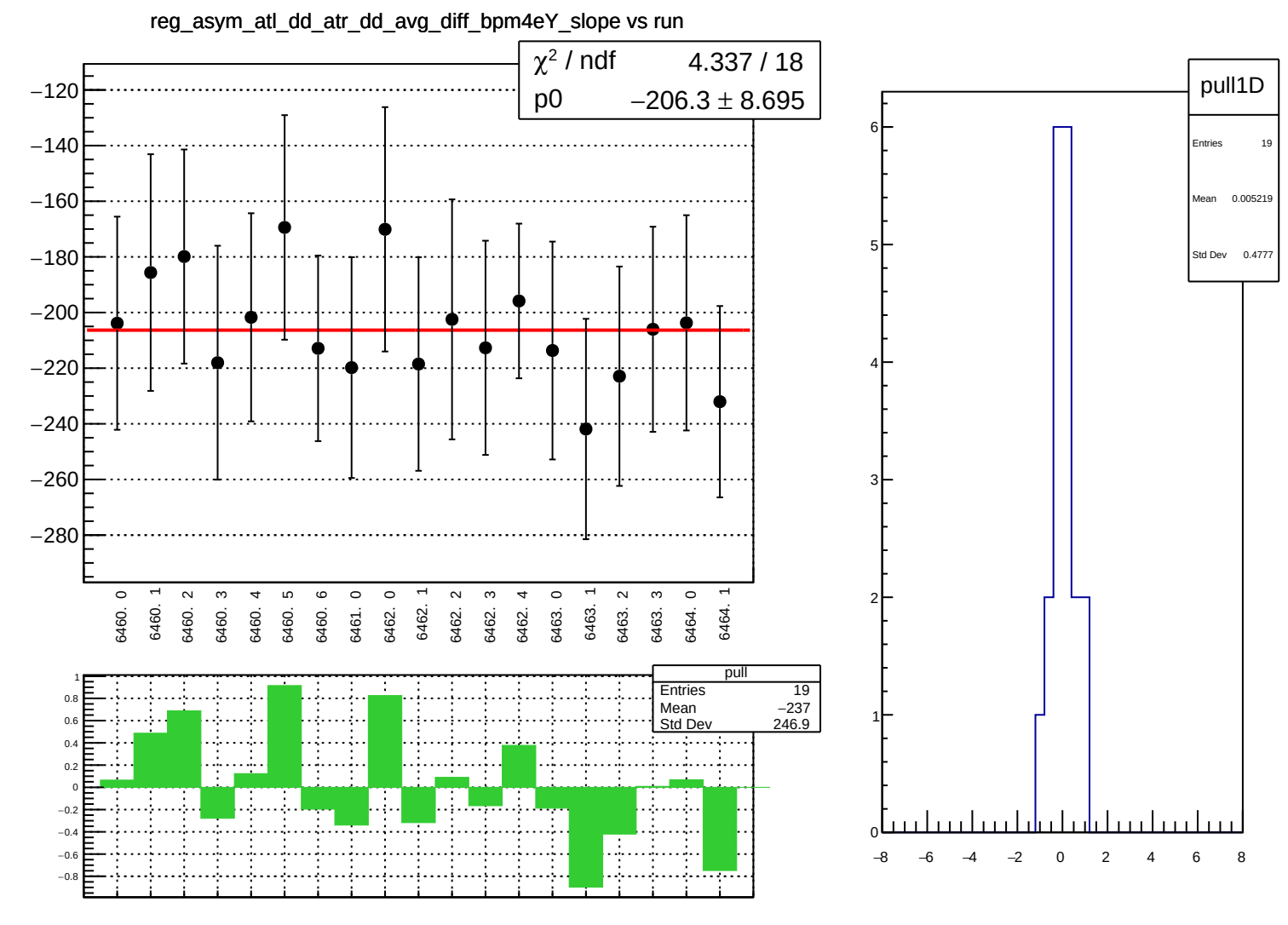

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.602 / 18
p0 72.28 ± 8.581
140
120
100
80
60
40
20
0
−20
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −69.61
Std Dev 79.79
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

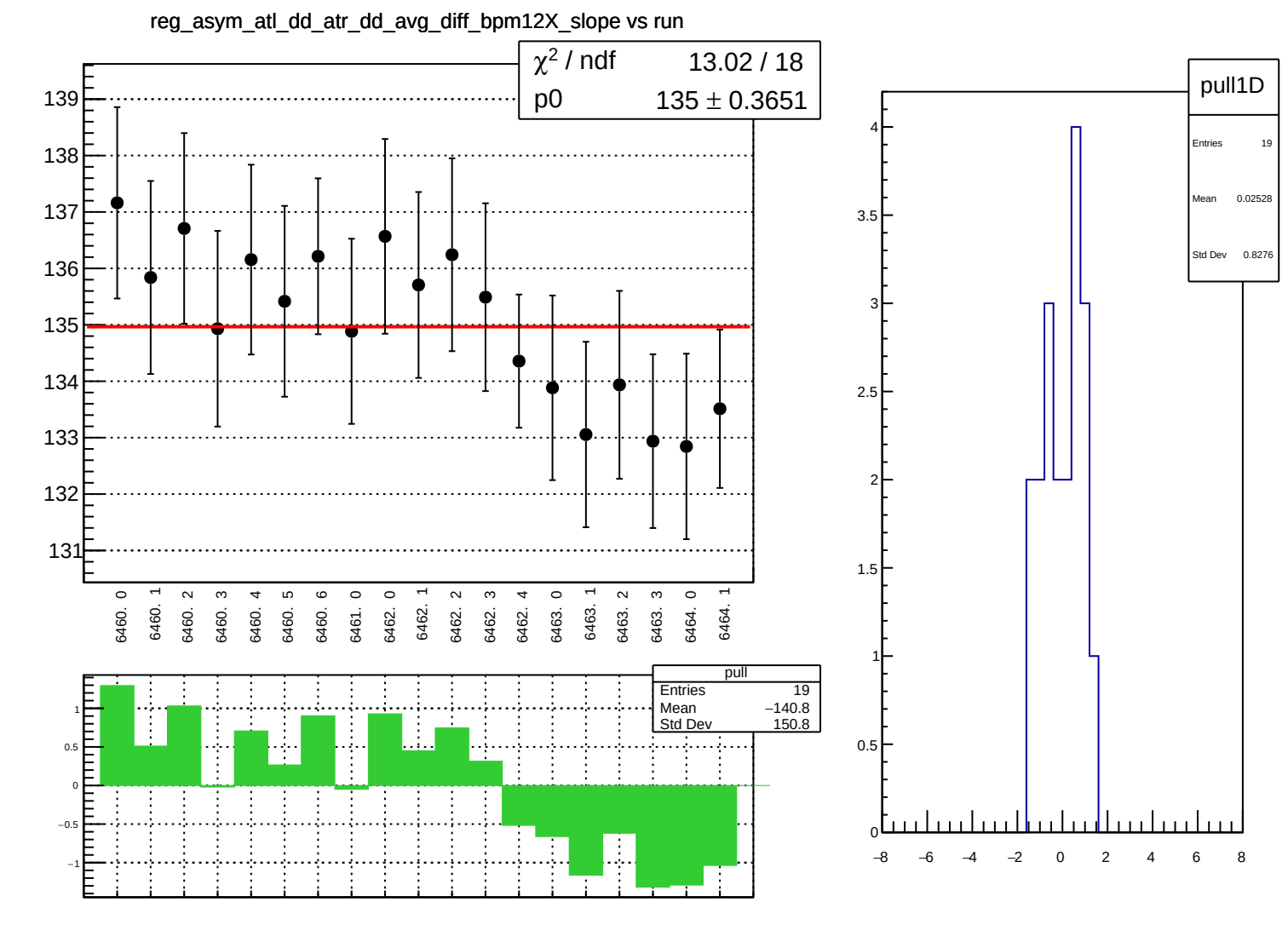

pull1D
Entries 19
Mean −0.007979
Std Dev 0.4353
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

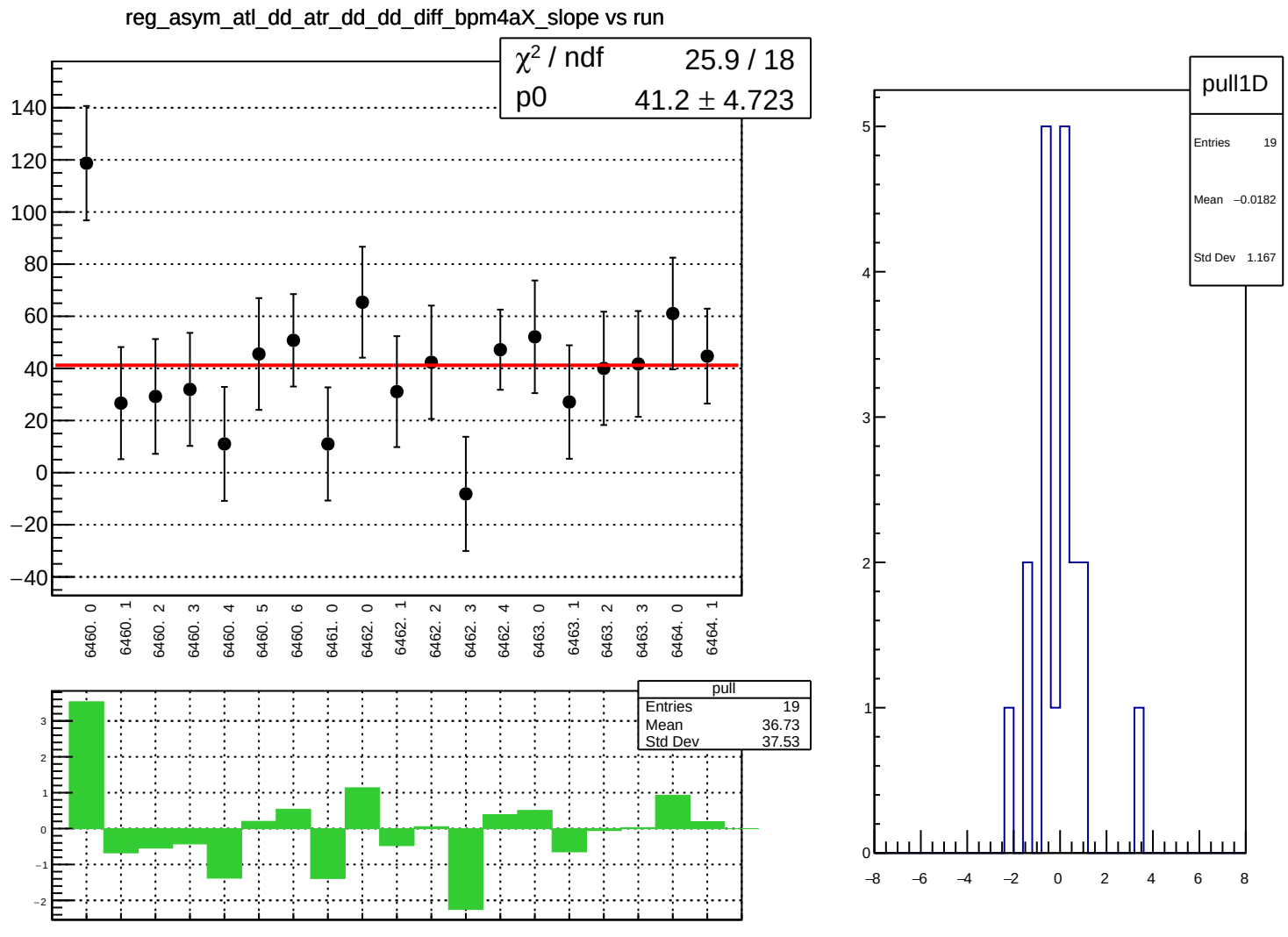

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 5.131 / 18
p0 −363.1 ± 13.61
−250
−300
−350
−400
−450
−500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

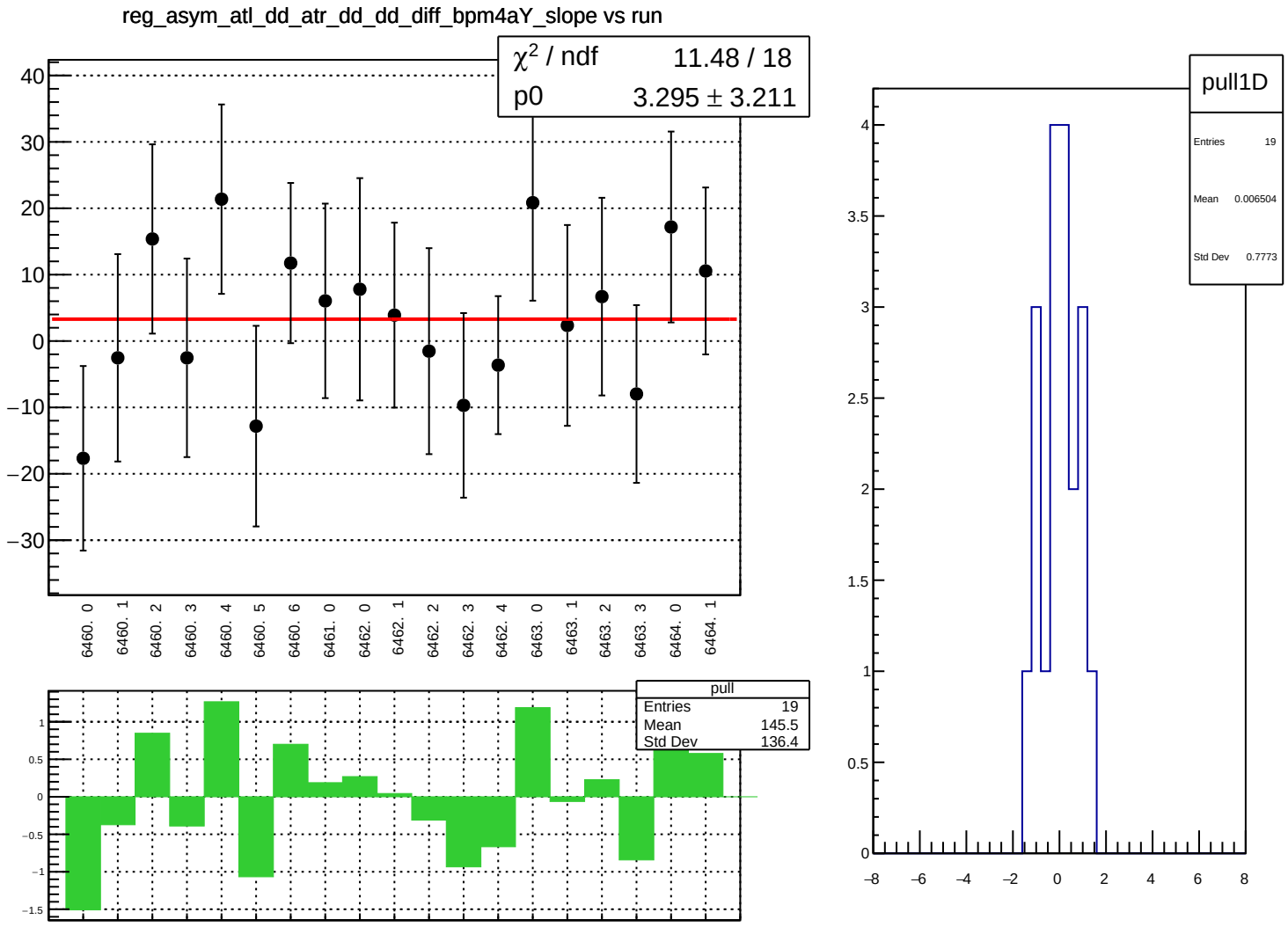

pull
Entries 19
Mean 1190
Std Dev 1178
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

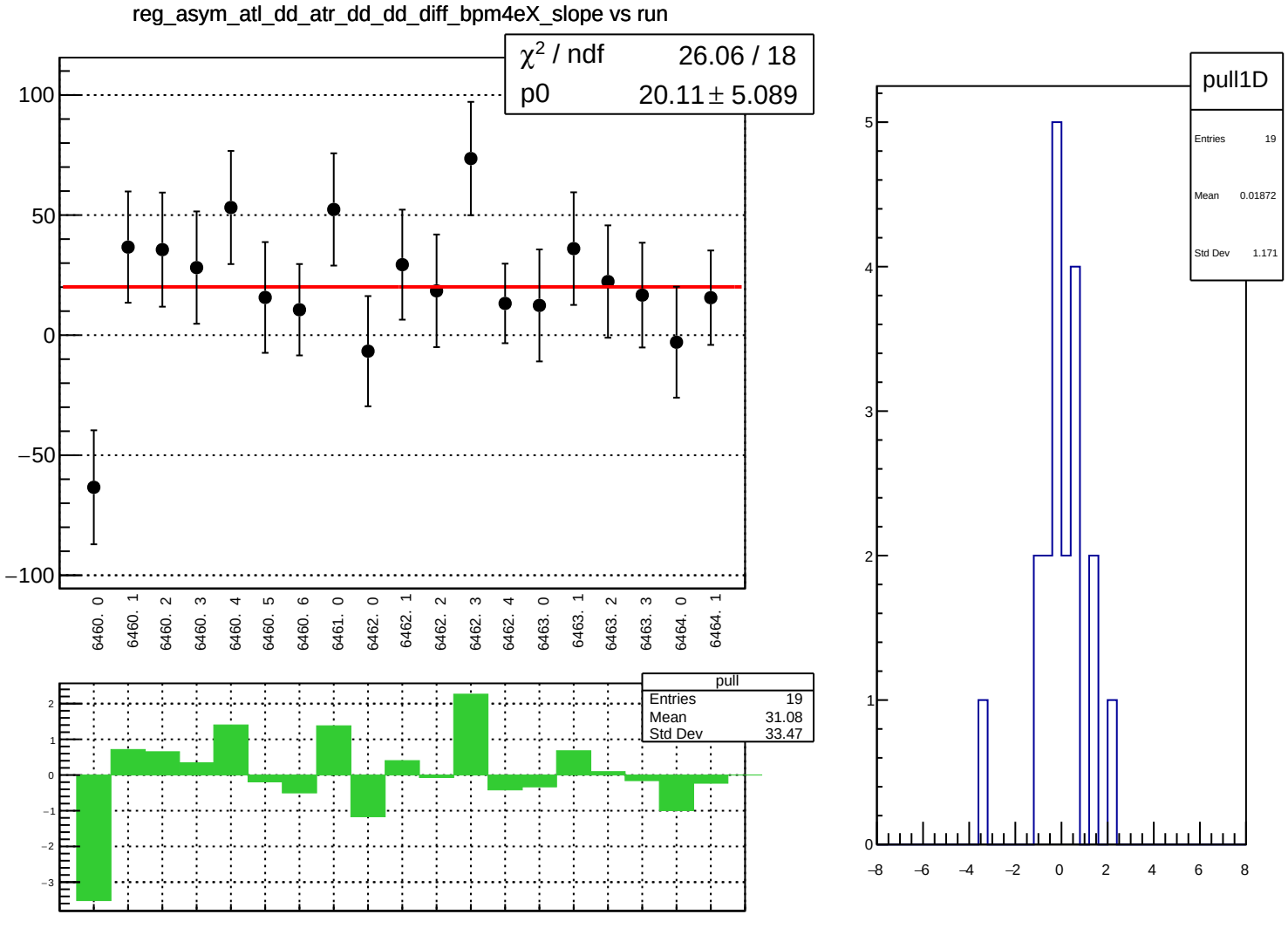

pull1D
Entries 19
Mean 0.001392
Std Dev 0.5197
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

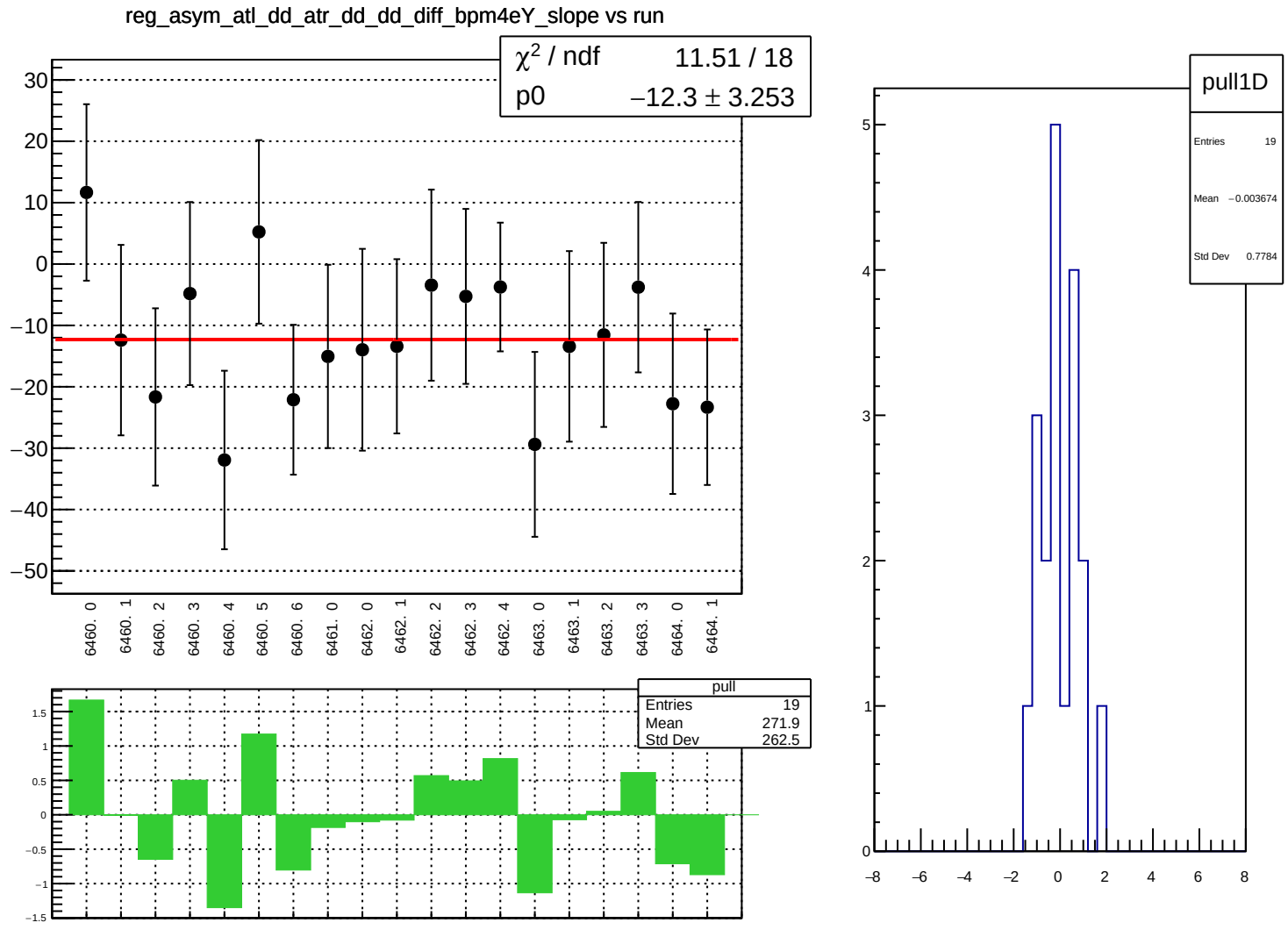

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.337 / 18
p0 −206.3 ± 8.695
−120
−140
−160
−180
−200
−220
−240
−260
−280
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −237
Std Dev 246.9
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 19
Mean 0.005219
Std Dev 0.4777
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

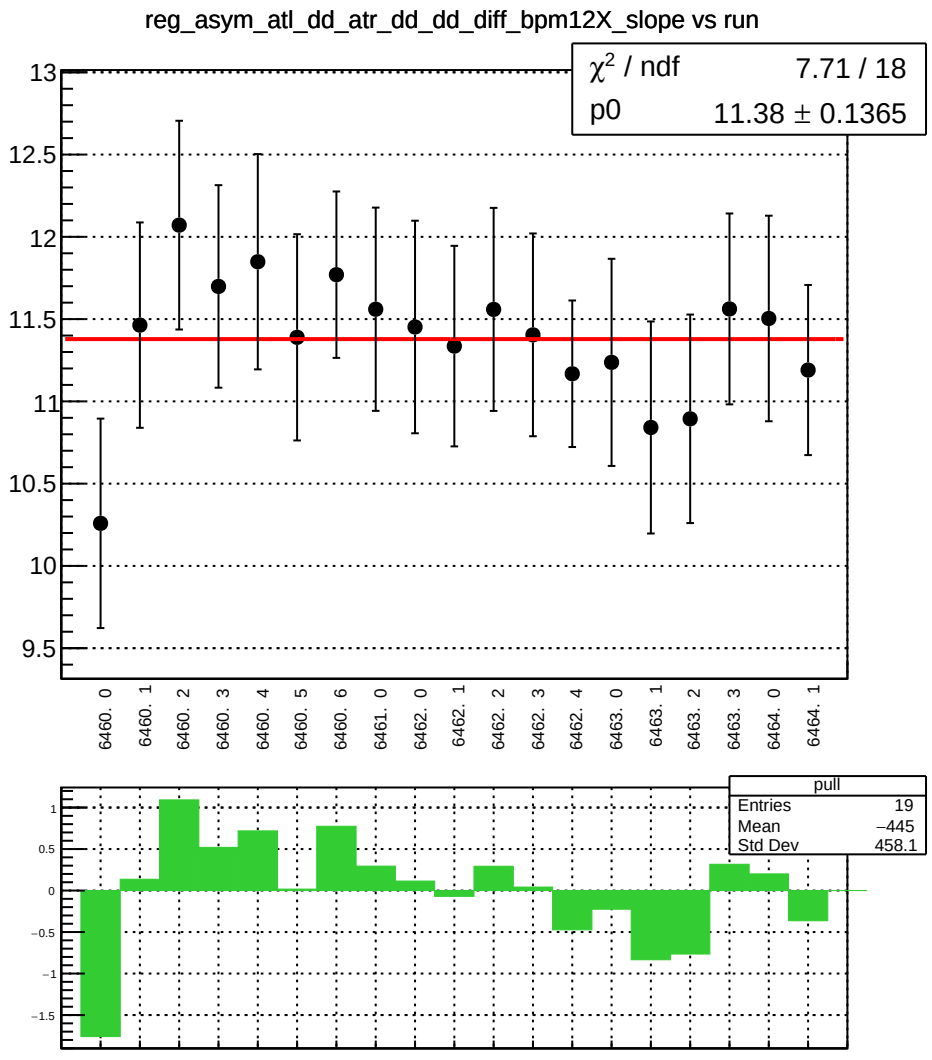

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 13.02 / 18
p0 135 ± 0.3651
139
138
137
136
135
134
133
132
131
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −140.8
Std Dev 150.8
1
0.5
0
−0.5
−1
pull1D
Entries 19
Mean 0.02528
Std Dev 0.8276
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

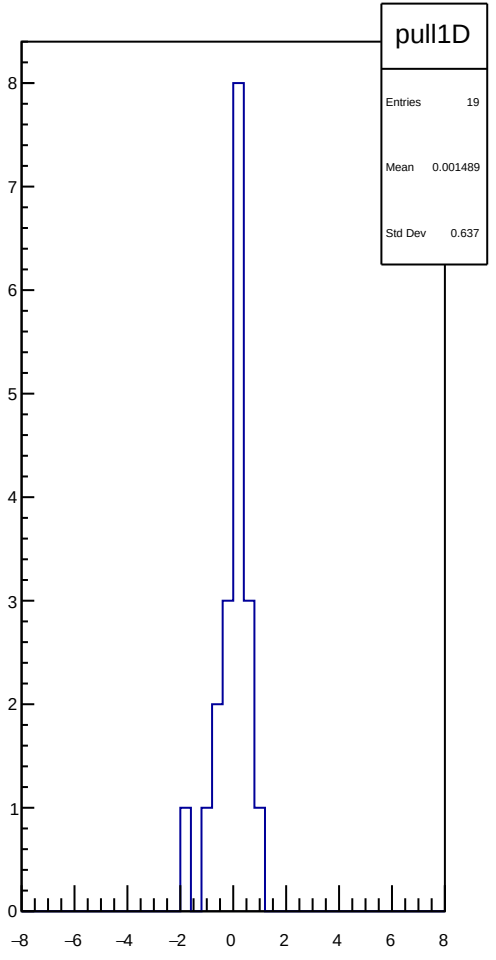

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aX_slope vs run
χ² / ndf 25.9 / 18
p0 41.2 ± 4.723
140
120
100
80
60
40
20
0
−20
−40
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 36.73
Std Dev 37.53
3
2
1
0
−1
−2
pull1D
Entries 19
Mean −0.0182
Std Dev 1.167
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

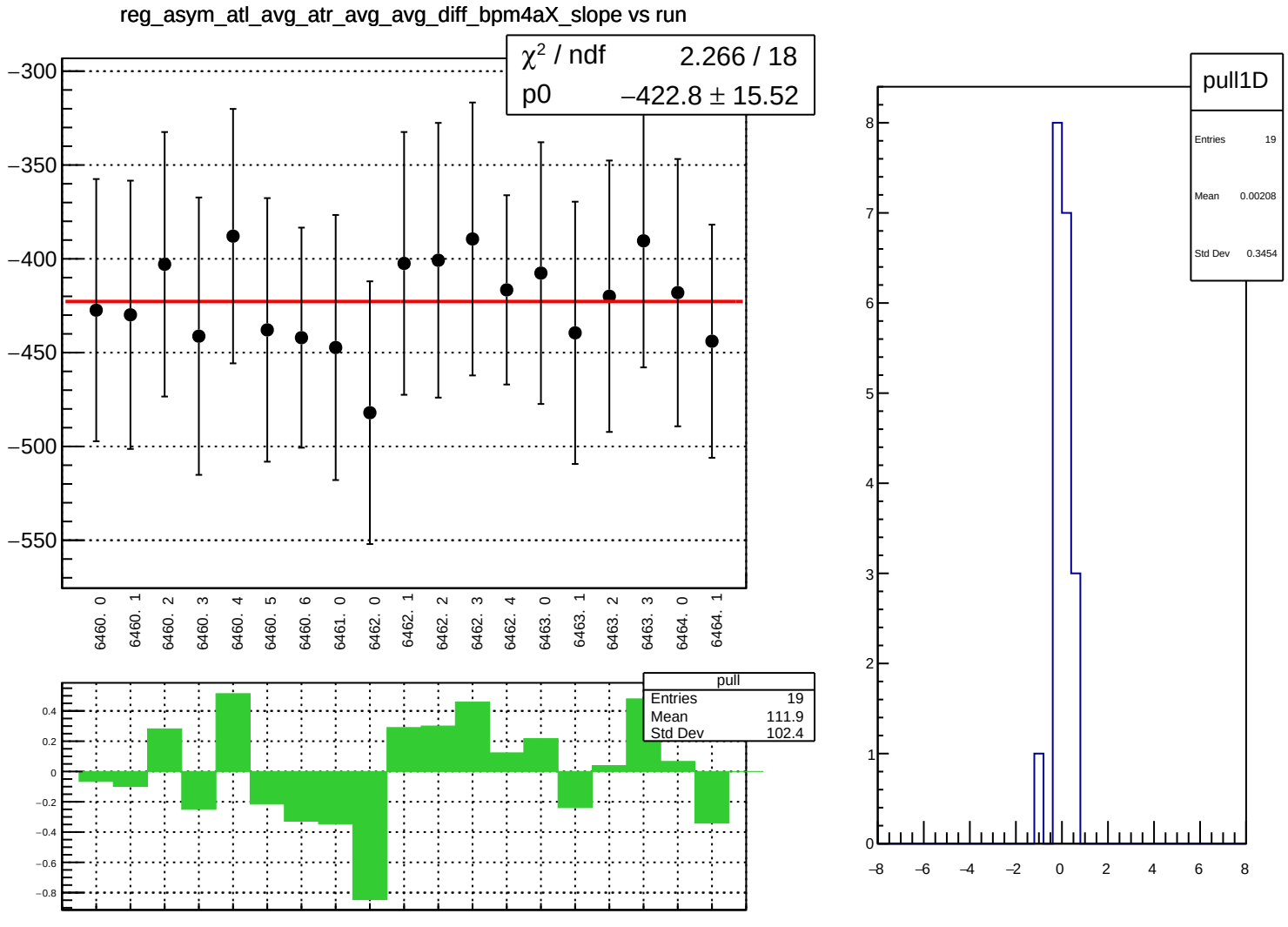

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.48 / 18
p0 3.295 ± 3.211
40
30
20
10
0
−10
−20
−30
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 145.5
Std Dev 136.4
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 19
Mean 0.006504
Std Dev 0.7773
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

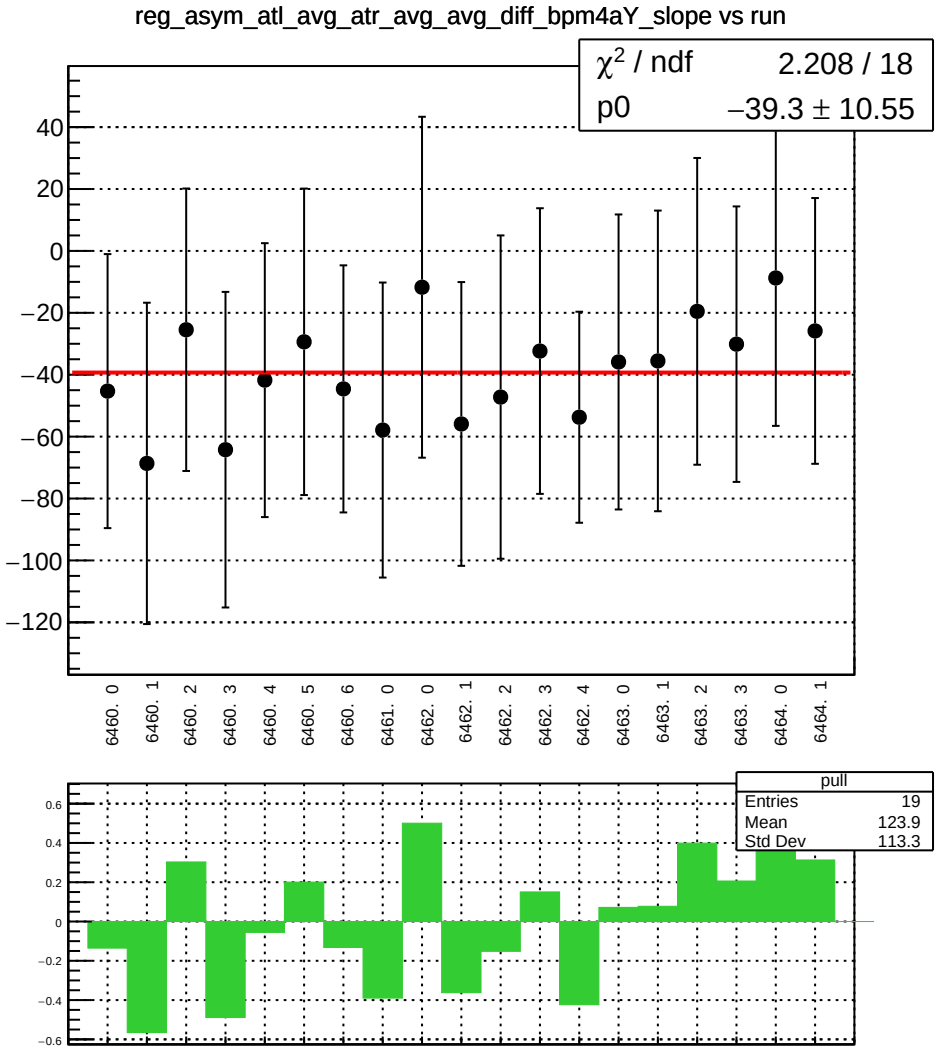

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 26.06 / 18
p0 20.11 ± 5.089
100
50
0
−50
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 31.08
Std Dev 33.47
2
1
0
−1
−2
−3
pull1D
Entries 19
Mean 0.01872
Std Dev 1.171
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

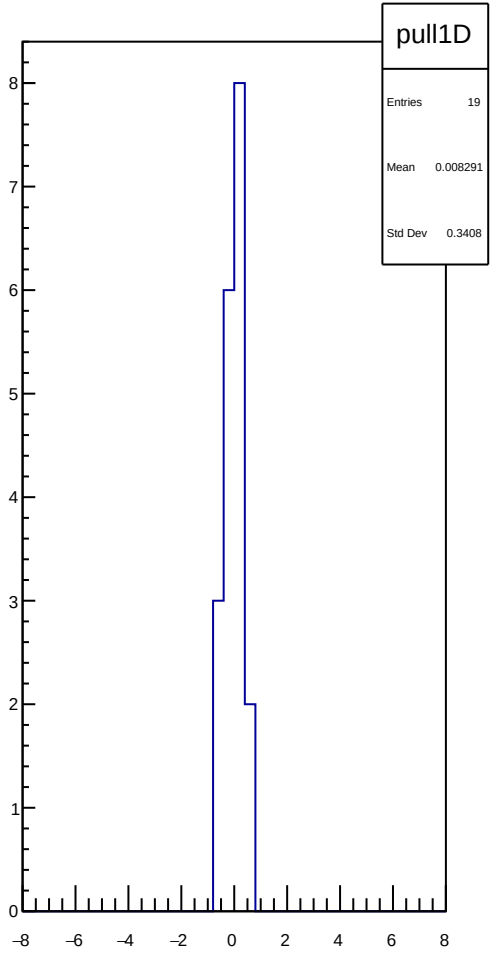

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.51 / 18
p0 −12.3 ± 3.253
30
20
10
0
−10
−20
−30
−40
−50
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 271.9
Std Dev 262.5
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 19
Mean −0.003674
Std Dev 0.7784
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

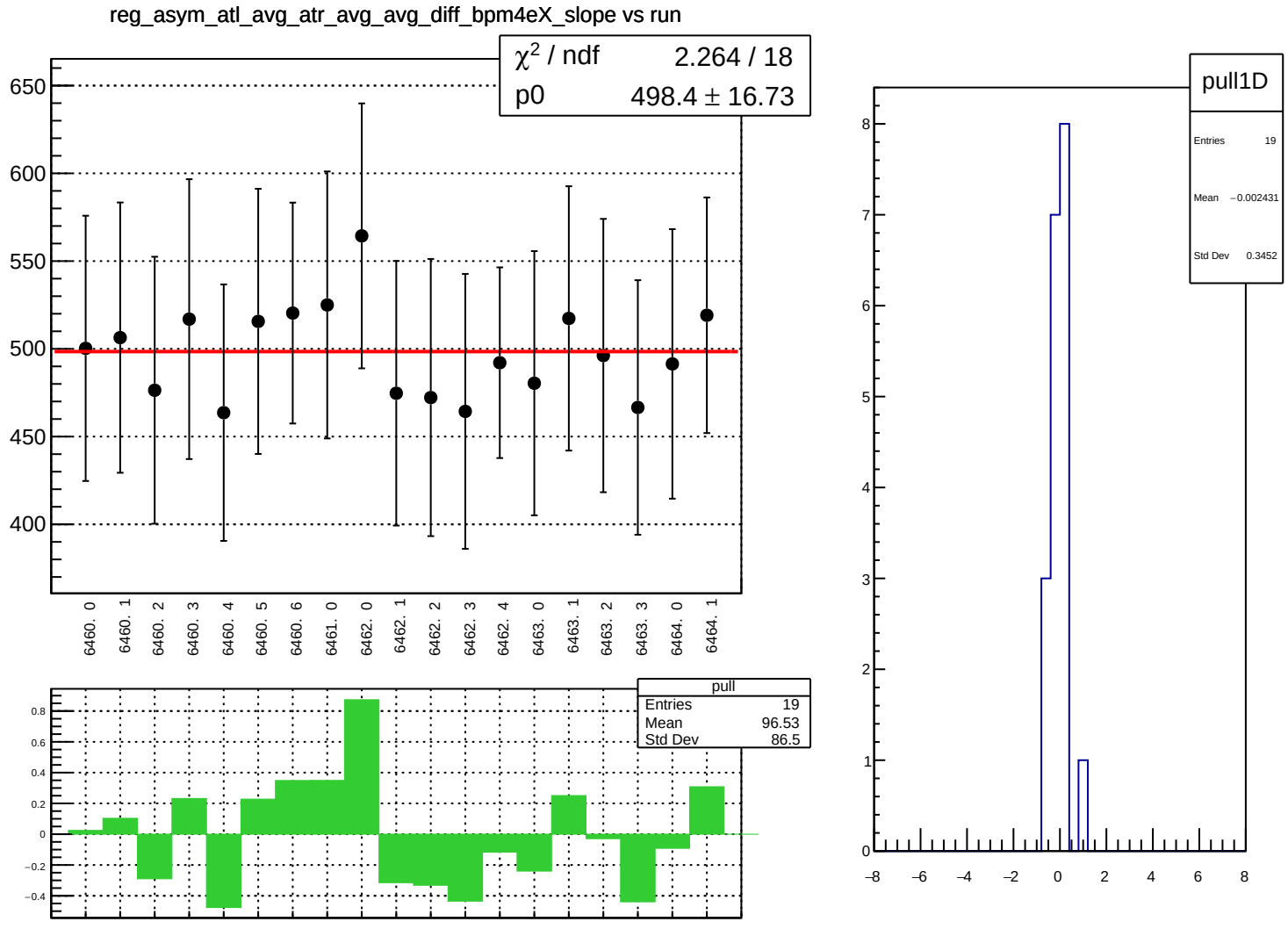

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 7.71 / 18
p0 11.38 ± 0.1365
13
12.5
12
11.5
11
10.5
10
9.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −445
Std Dev 458.1
1
0.5
0
−0.5
−1
−1.5

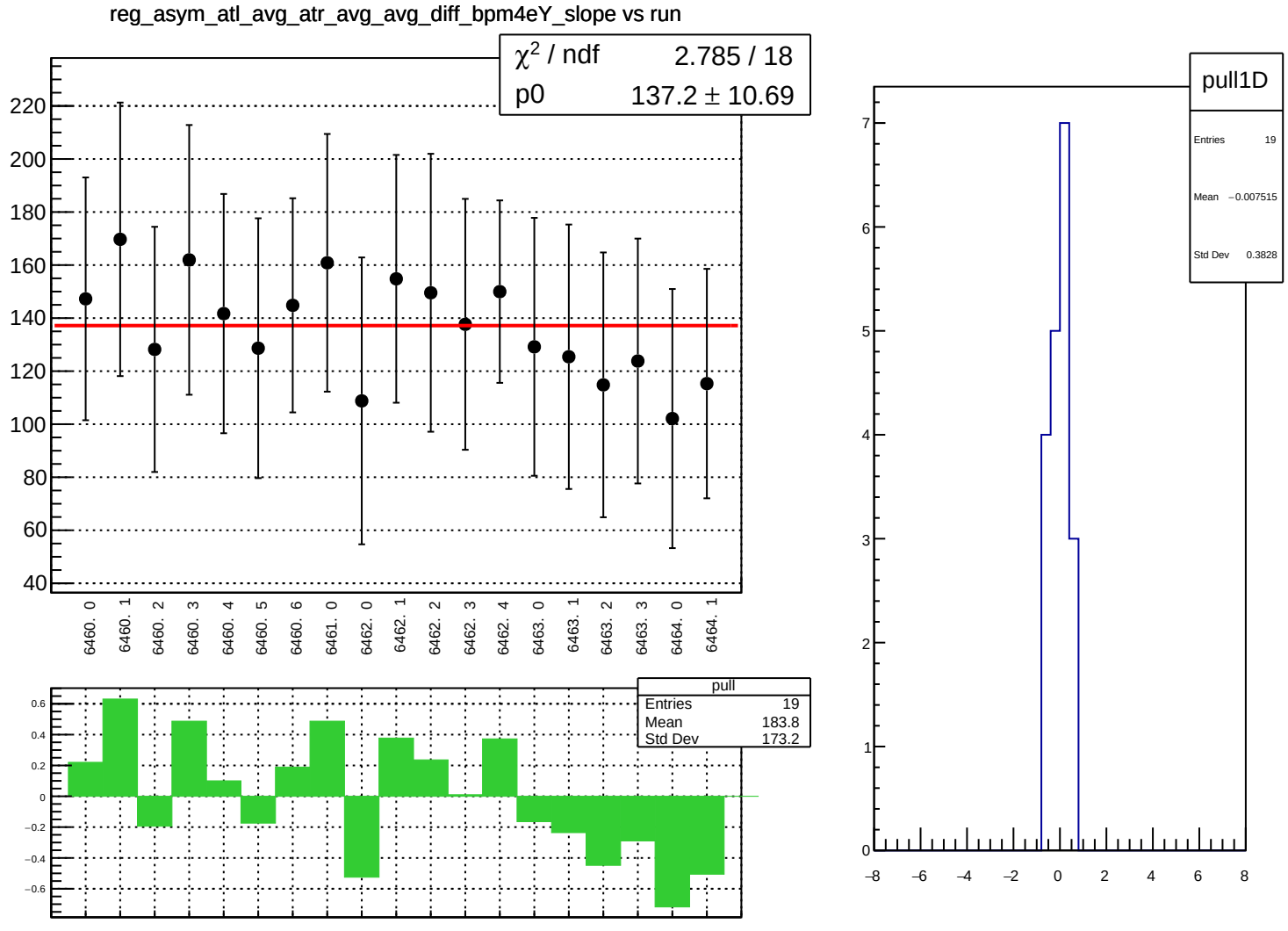

pull1D
Entries 19
Mean 0.001489
Std Dev 0.637
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

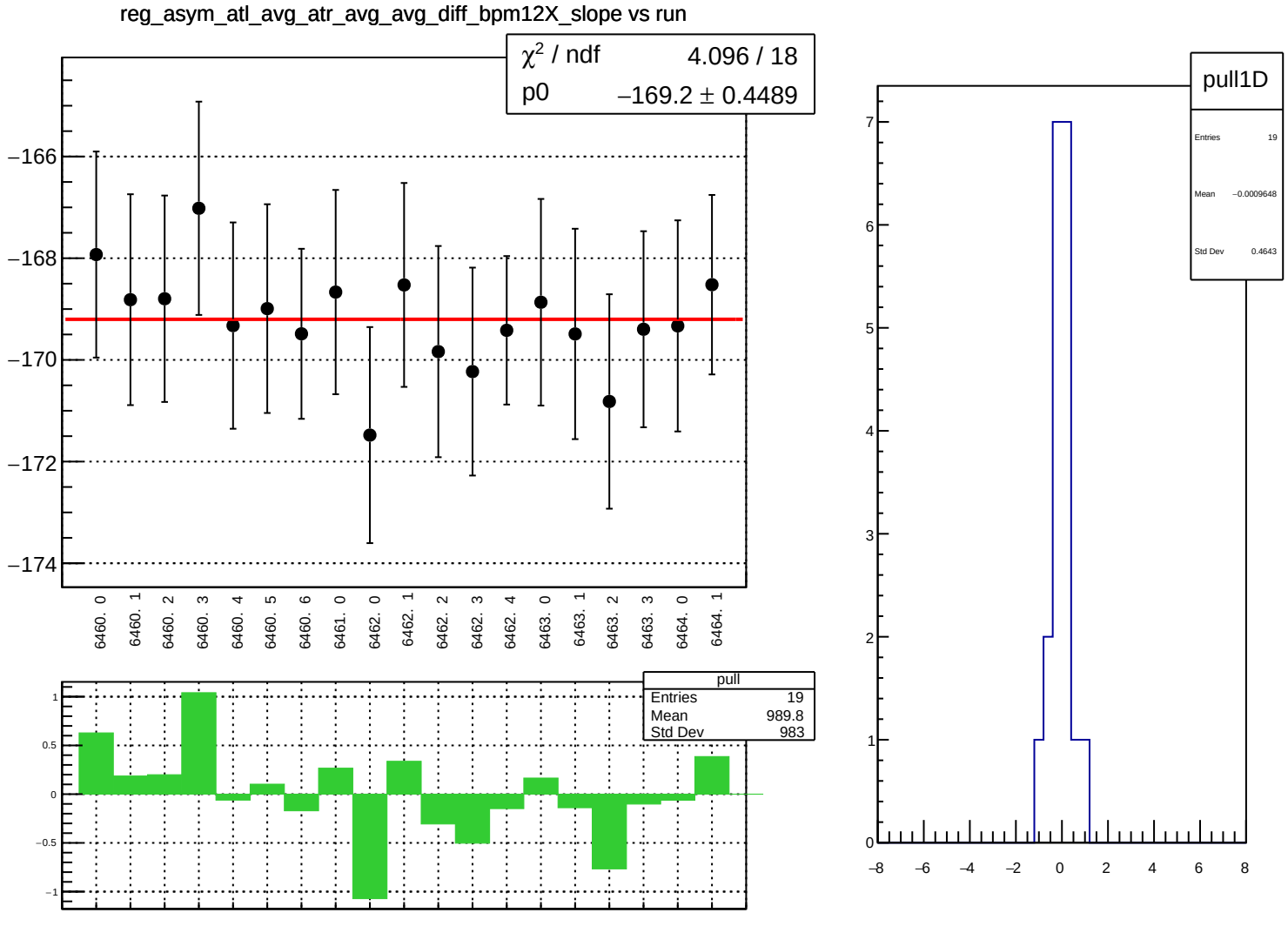

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aX_slope vs run
χ² / ndf 2.266 / 18
p0 −422.8 ± 15.52
−300
−350
−400
−450
−500
−550
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 111.9
Std Dev 102.4
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 19
Mean 0.00208
Std Dev 0.3454
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

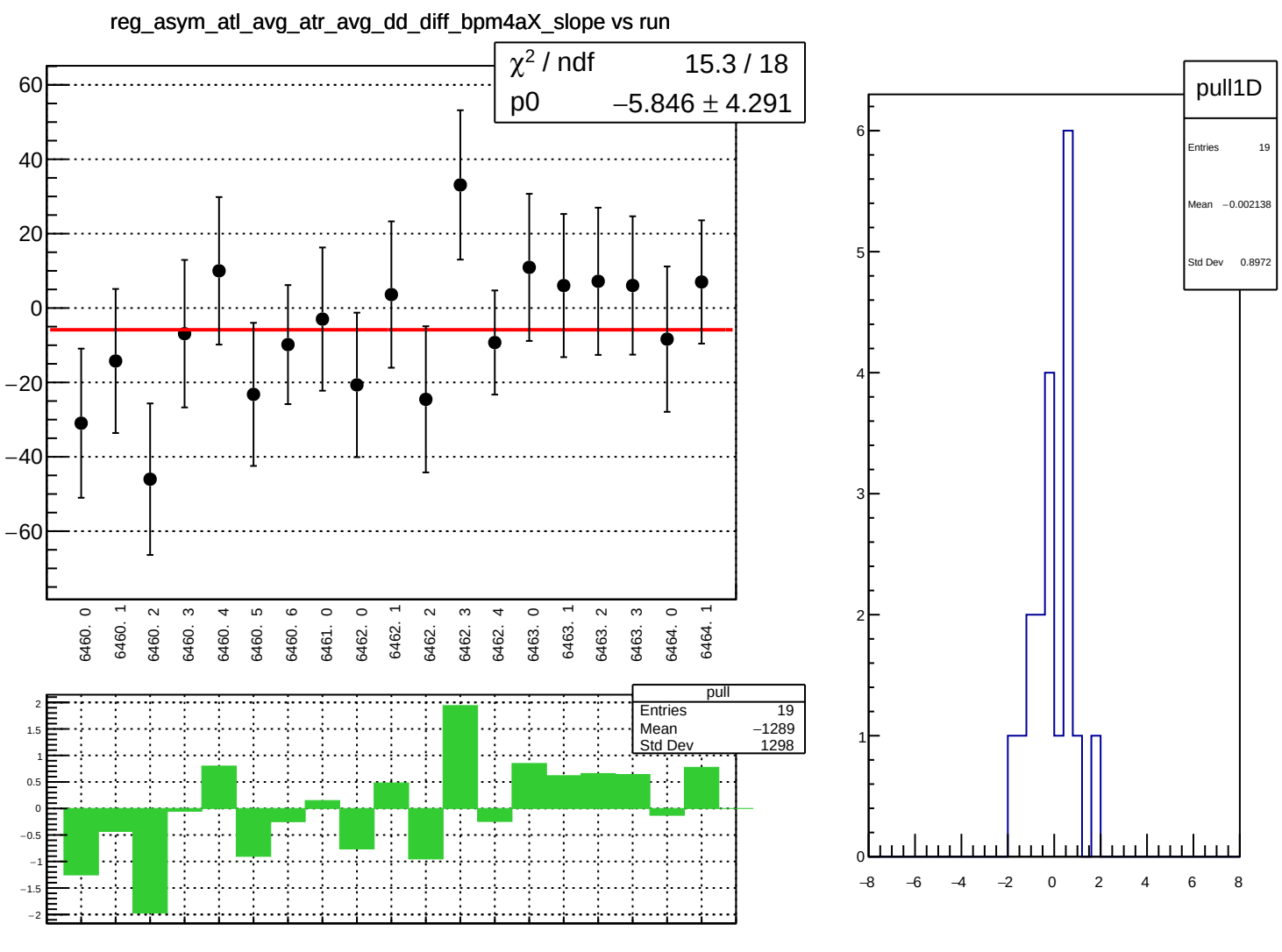

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.208 / 18
p0 −39.3 ± 10.55
40
20
0
−20
−40
−60
−80
−100
−120
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 123.9
Std Dev 113.3
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

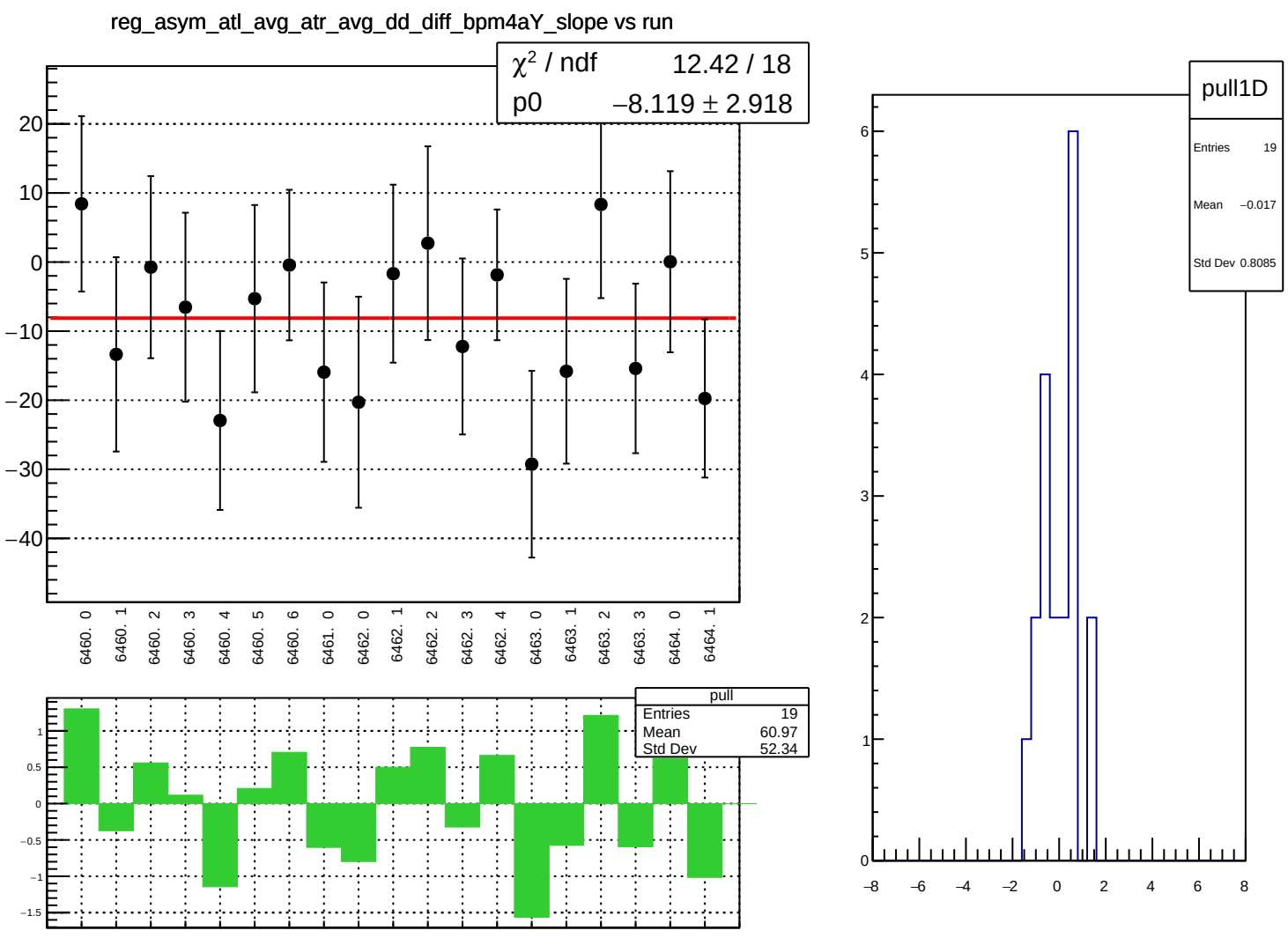

pull1D
Entries 19
Mean 0.008291
Std Dev 0.3408
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

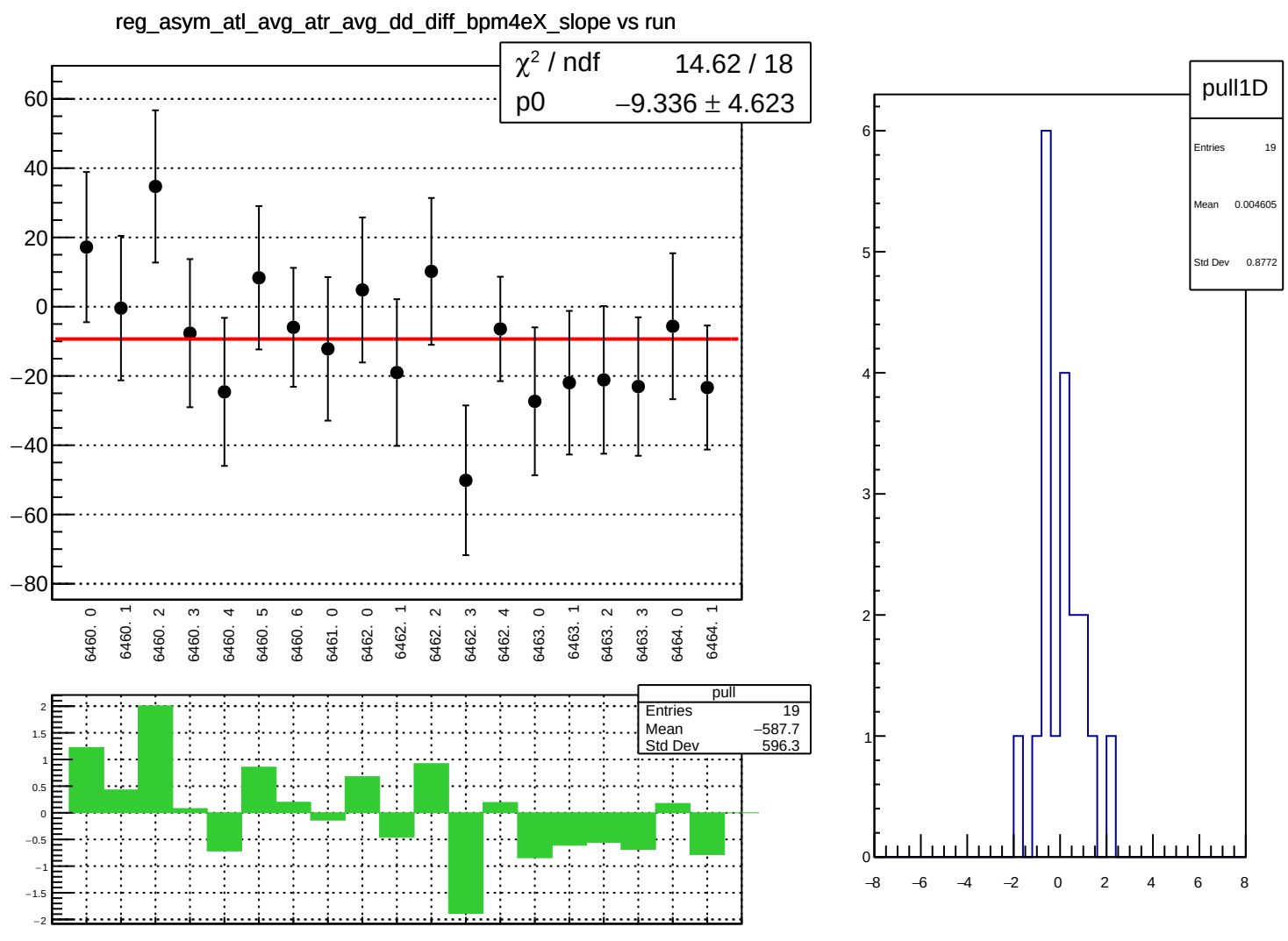

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.264 / 18
p0 498.4 ± 16.73
650
600
550
500
450
400
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 96.53
Std Dev 86.5
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 19
Mean −0.002431
Std Dev 0.3452
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

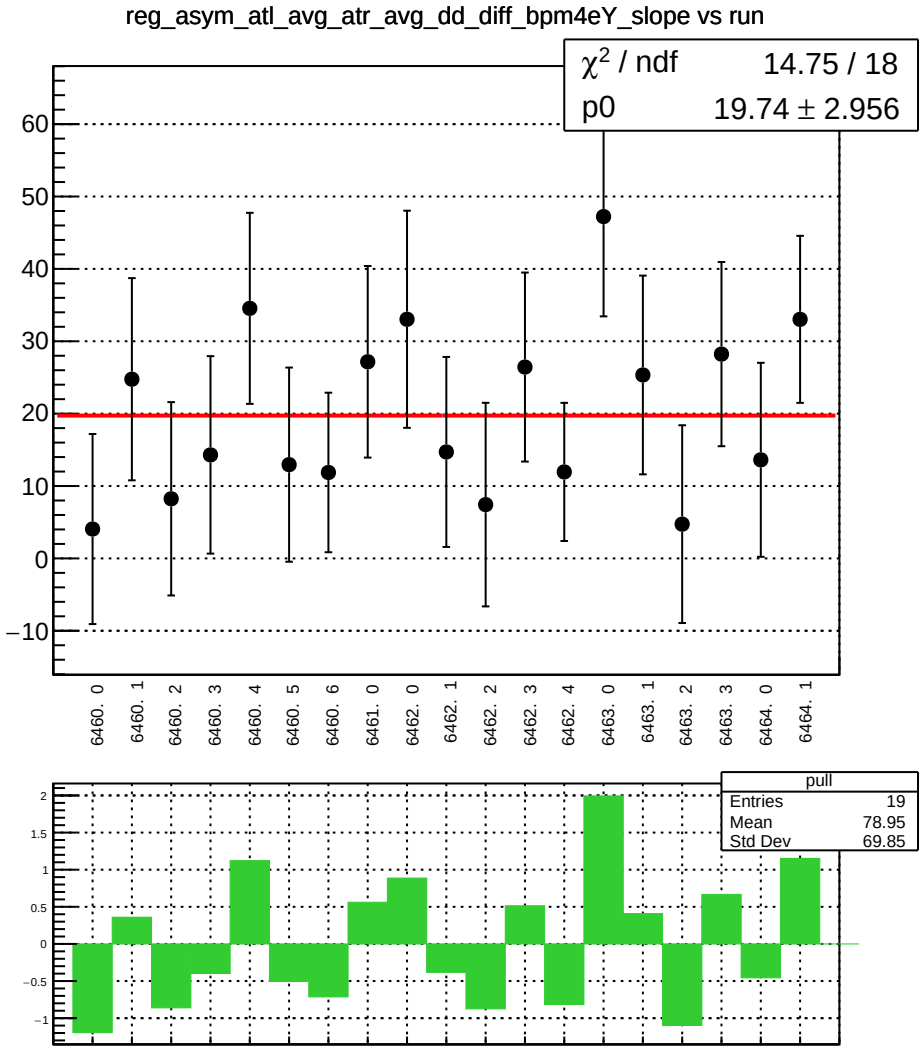

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.785 / 18
p0 137.2 ± 10.69
220
200
180
160
140
120
100
80
60
40
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 183.8
Std Dev 173.2
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 19
Mean −0.007515
Std Dev 0.3828
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

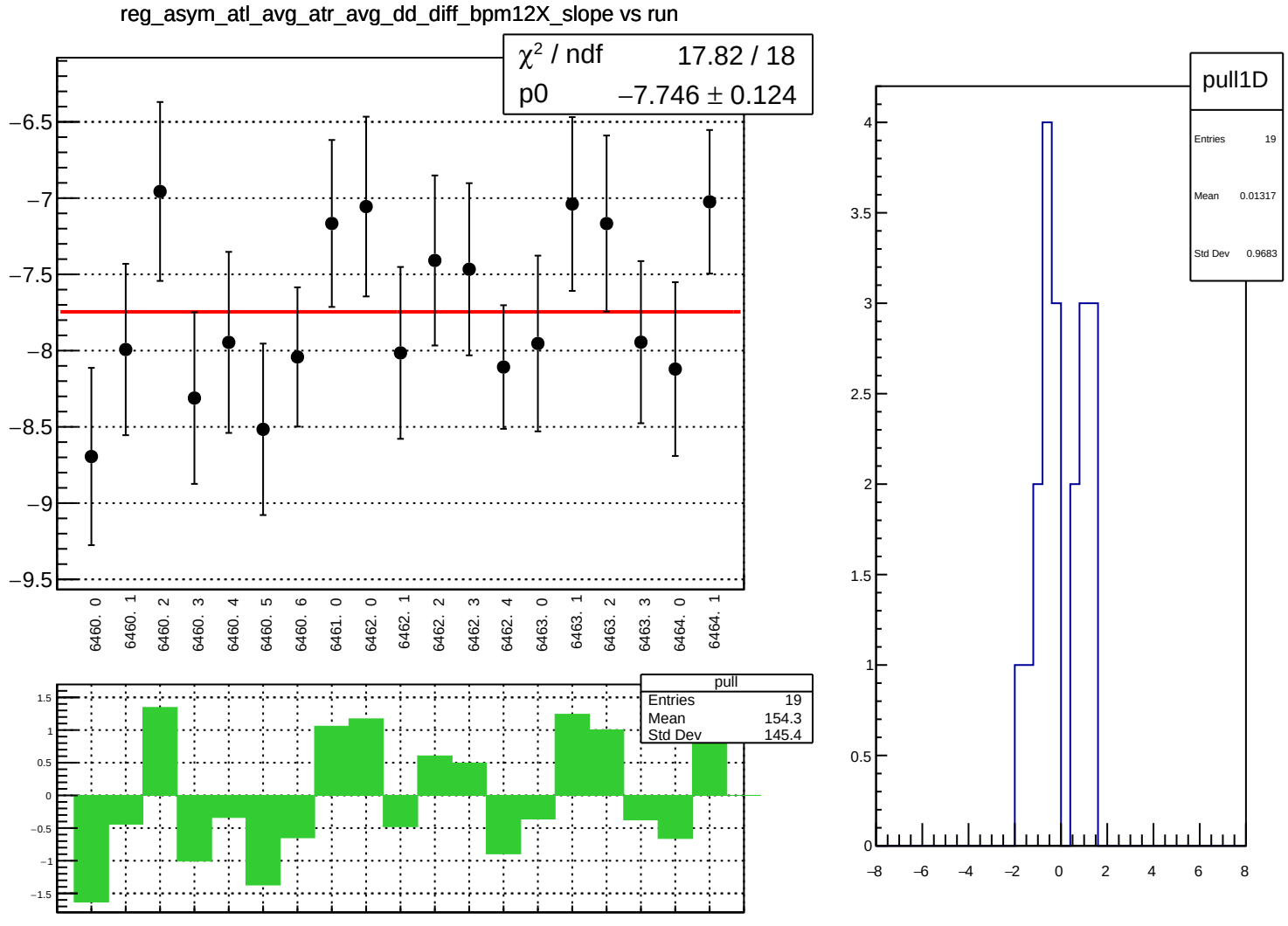

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 4.096 / 18
p0 −169.2 ± 0.4489
−166
−168
−170
−172
−174
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 989.8
Std Dev 983
1
0.5
0
−0.5
−1
pull1D
Entries 19
Mean −0.0009648
Std Dev 0.4643
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl_avg_atr_avg_dd_diff_bpm4aX_slope vs run
χ² / ndf 15.3 / 18
p0 −5.846 ± 4.291
60
40
20
0
−20
−40
−60
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −1289
Std Dev 1298
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 19
Mean −0.002138
Std Dev 0.8972
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

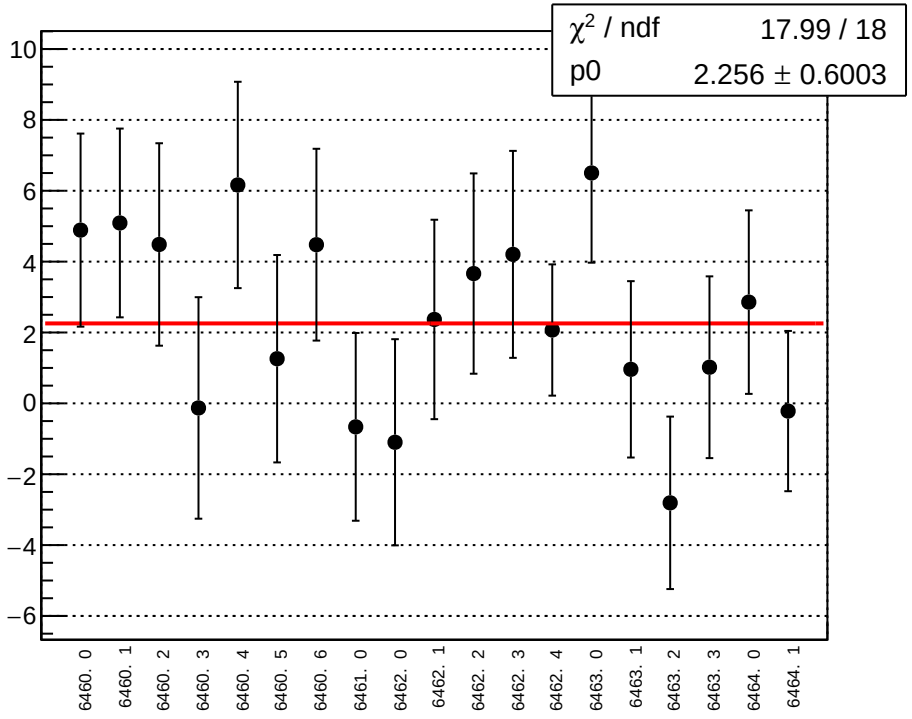

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 12.42 / 18
p0 −8.119 ± 2.918
20
10
0
−10
−20
−30
−40
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 60.97
Std Dev 52.34
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 19
Mean −0.017
Std Dev 0.8085
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

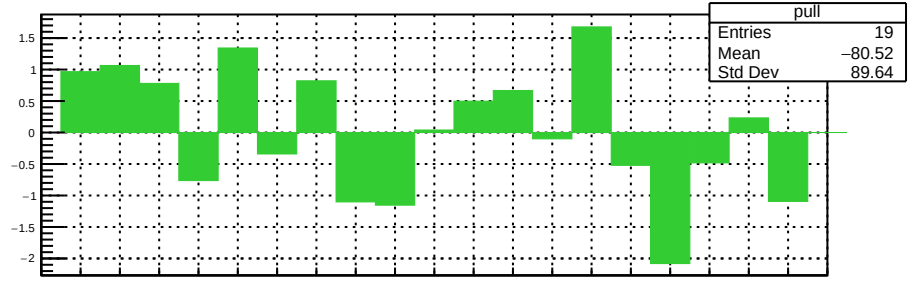

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 14.62 / 18
p0 −9.336 ± 4.623
60
40
20
0
−20
−40
−60
−80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −587.7
Std Dev 596.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 19
Mean 0.004605
Std Dev 0.8772
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

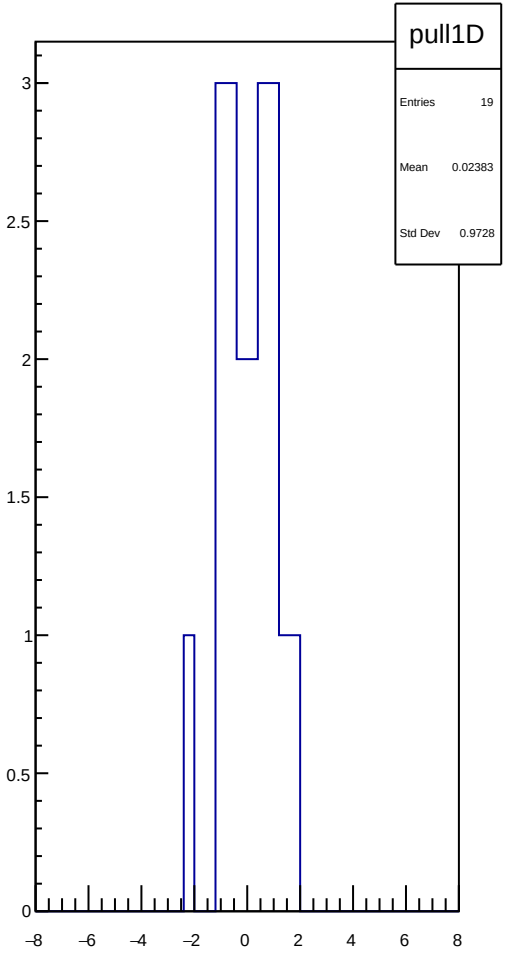

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 14.75 / 18
p0 19.74 ± 2.956
60
50
40
30
20
10
0
−10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 78.95
Std Dev 69.85
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 19
Mean 0.01921
Std Dev 0.8809
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

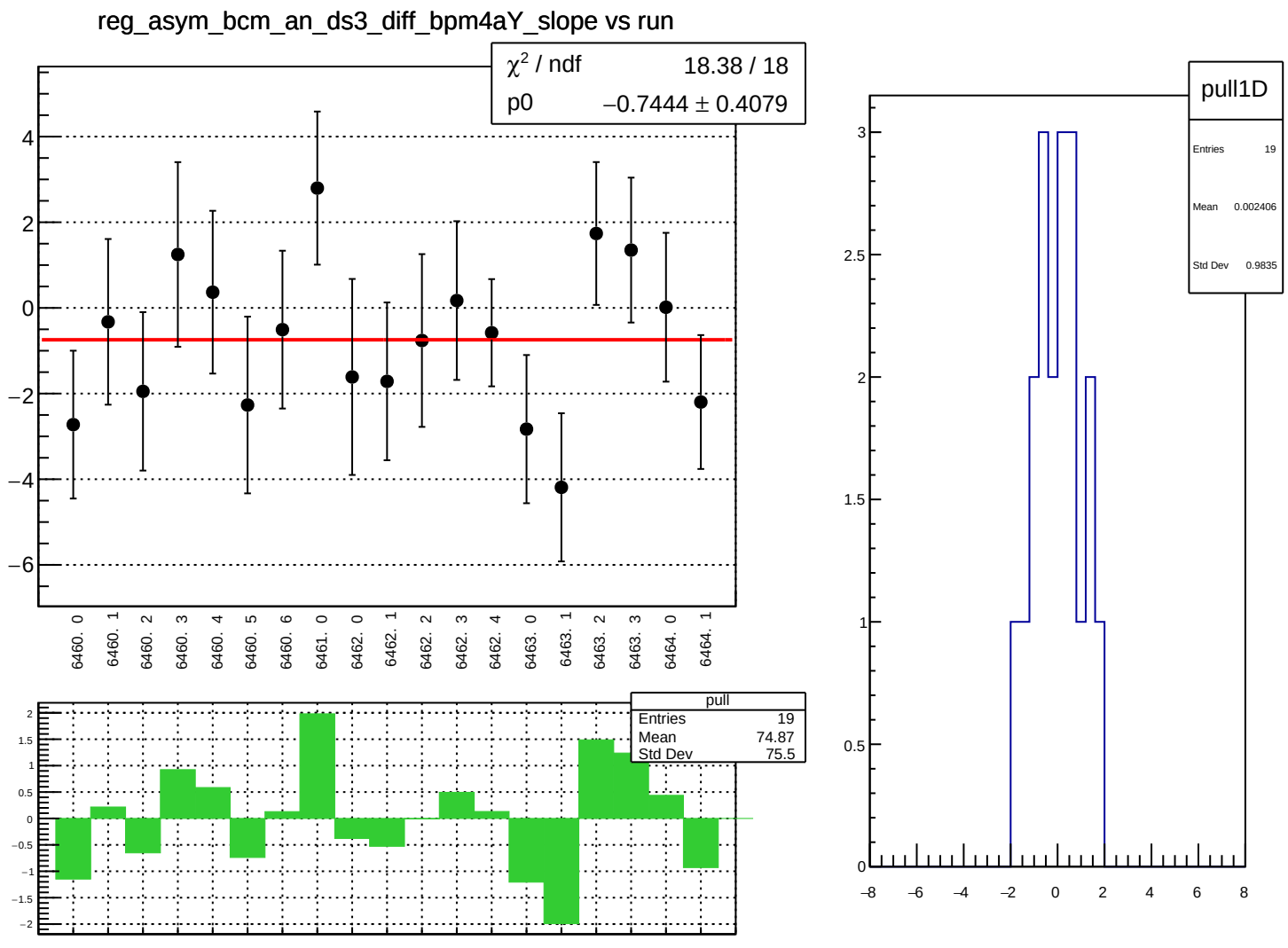

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 17.82 / 18
p0 −7.746 ± 0.124
−6.5
−7
−7.5
−8
−8.5
−9
−9.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 154.3
Std Dev 145.4
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 19
Mean 0.01317
Std Dev 0.9683
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

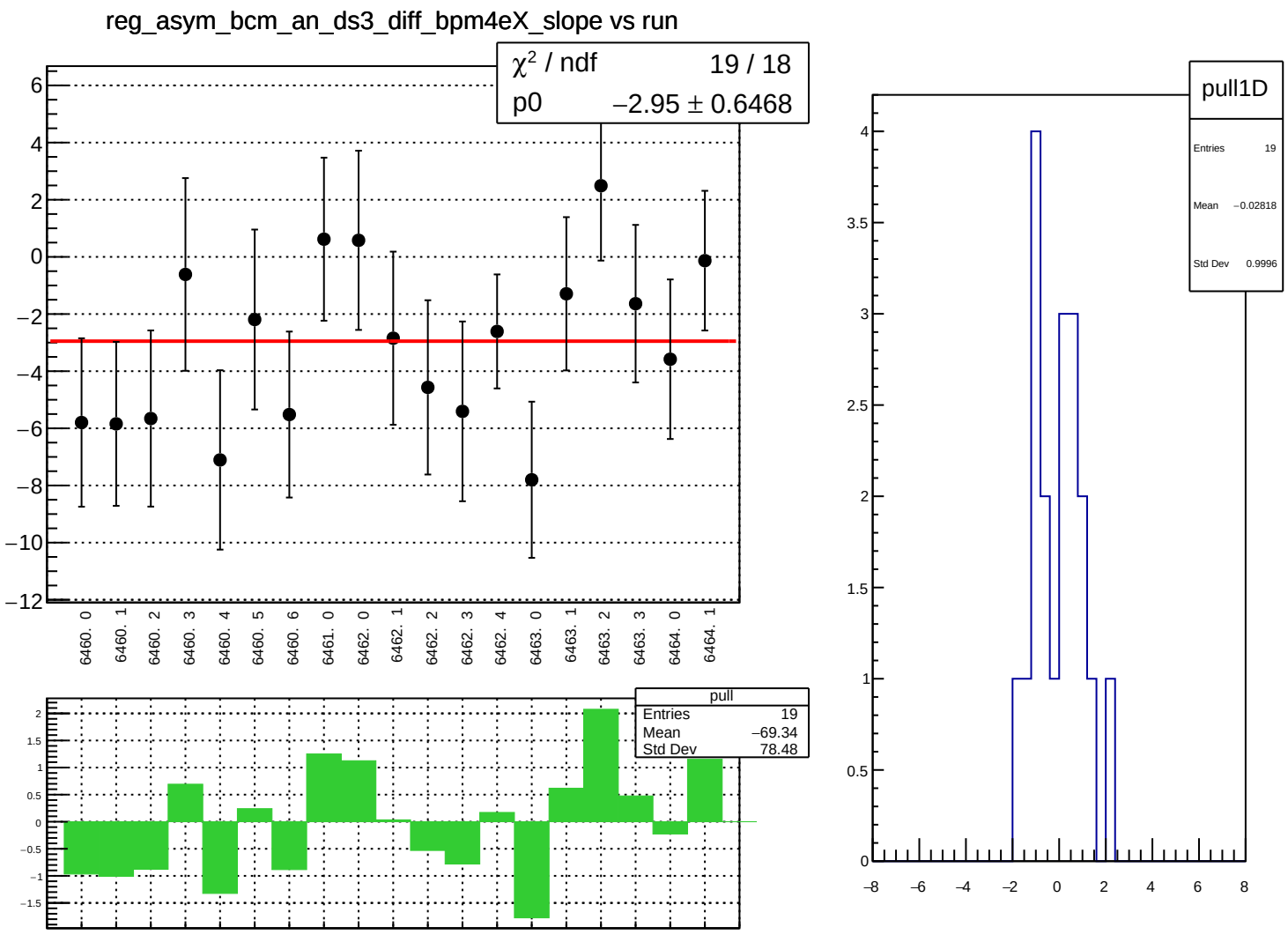
reg_asym_bcm_an_ds3_diff_bpm4aX_slope vs run

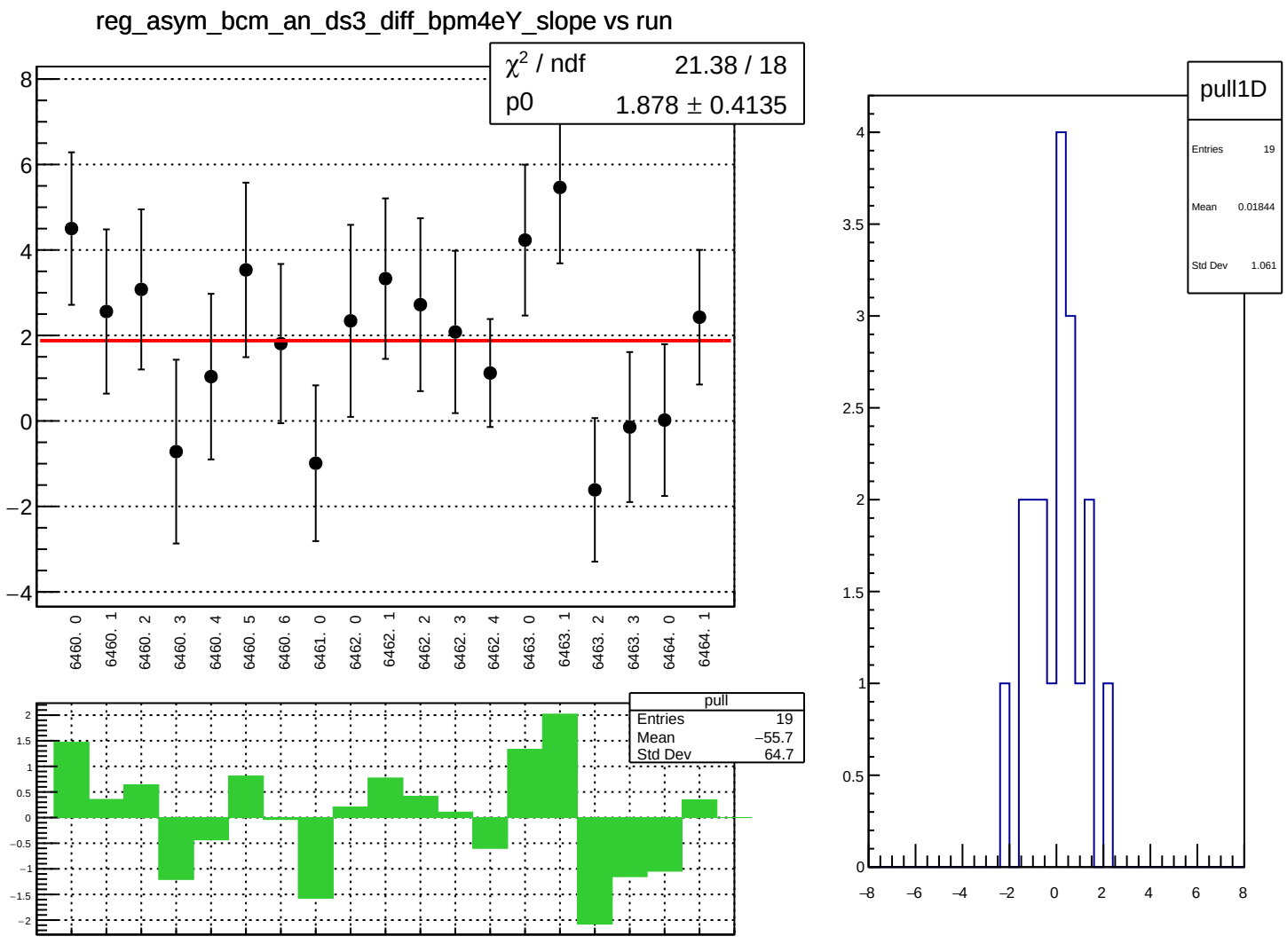


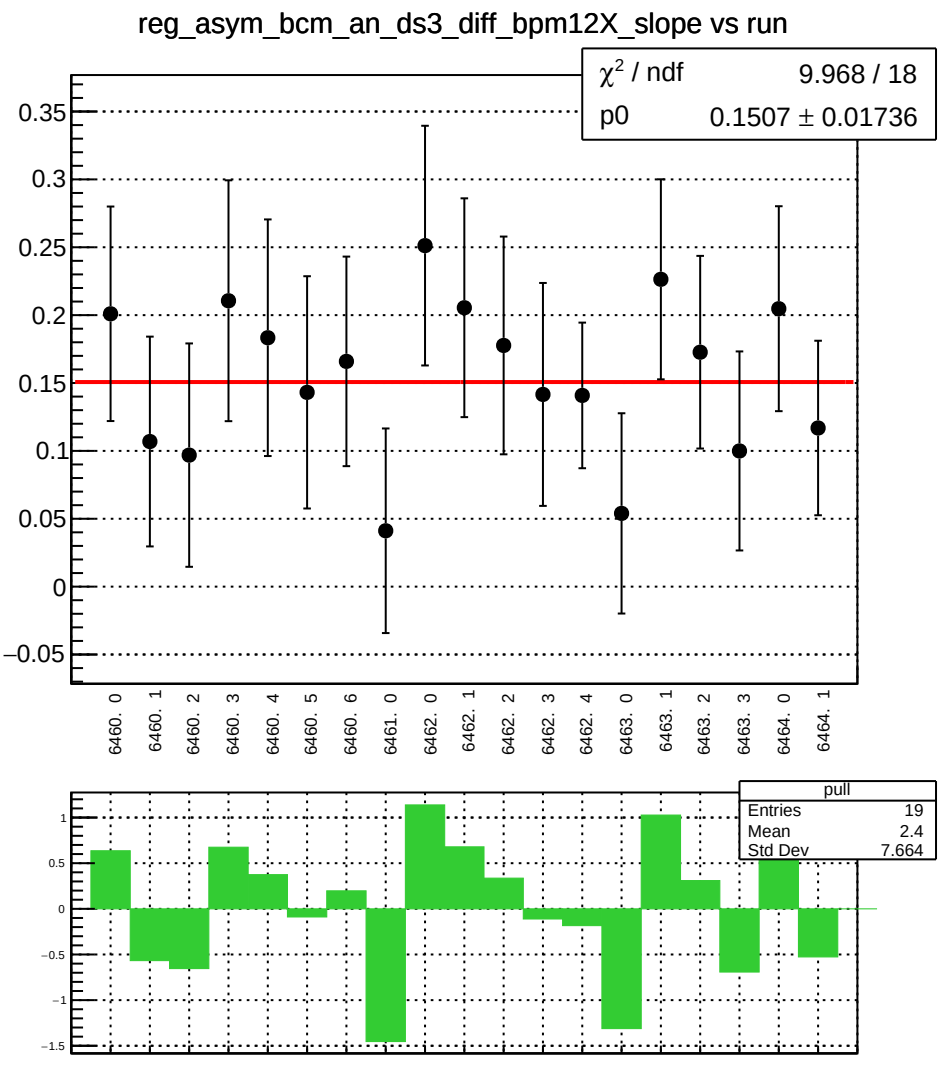


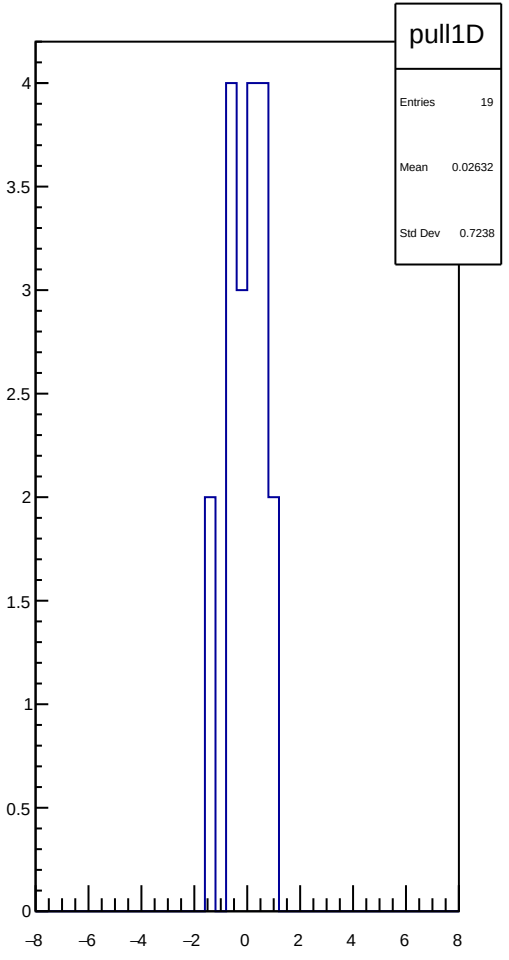


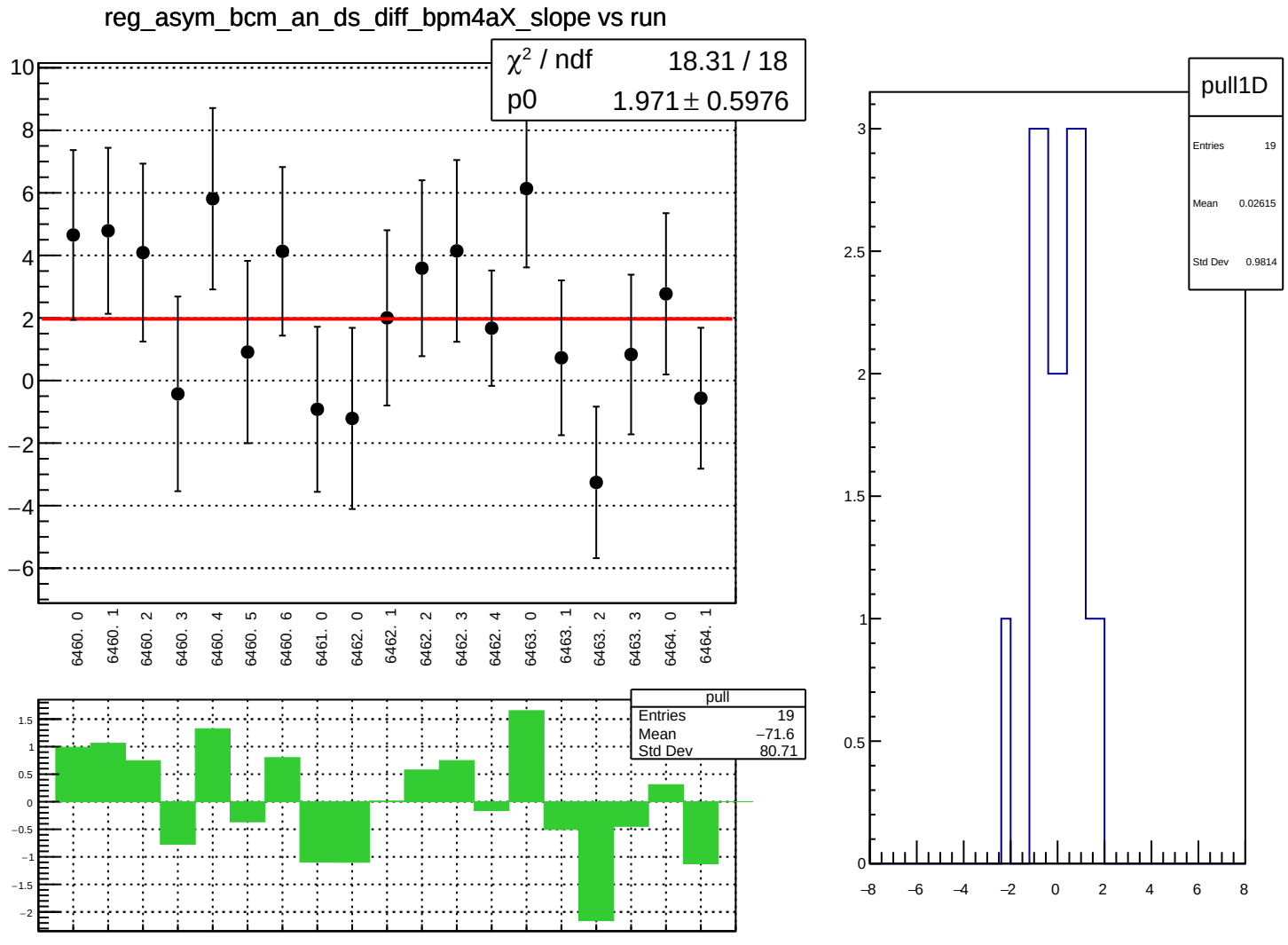

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 18.38 / 18
p0 −0.7444 ± 0.4079
4
2
0
−2
−4
−6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 74.87
Std Dev 75.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 19
Mean 0.002406
Std Dev 0.9835
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

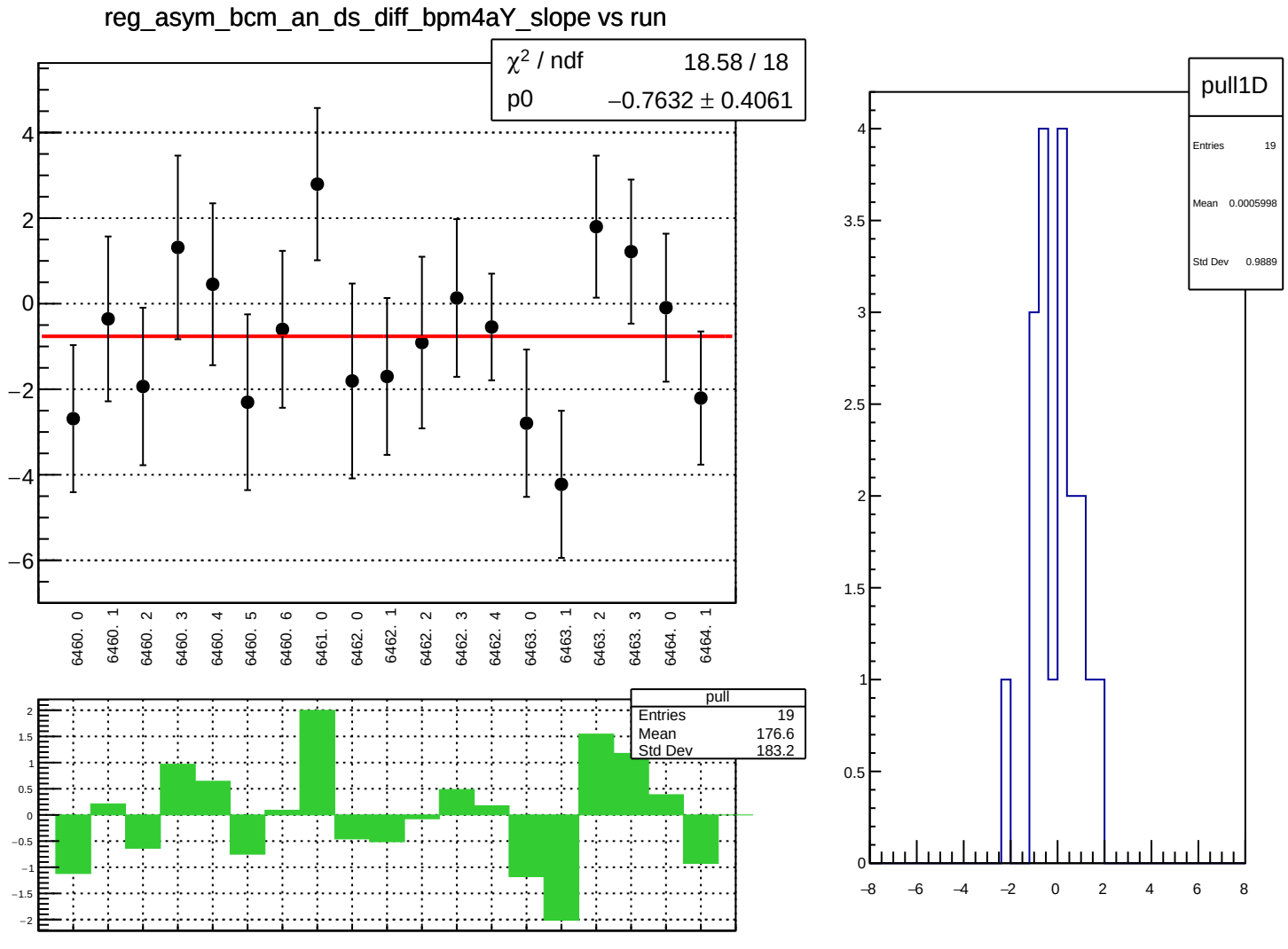

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 19 / 18
p0 −2.95 ± 0.6468
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −69.34
Std Dev 78.48
pull1D
Entries 19
Mean −0.02818
Std Dev 0.9996

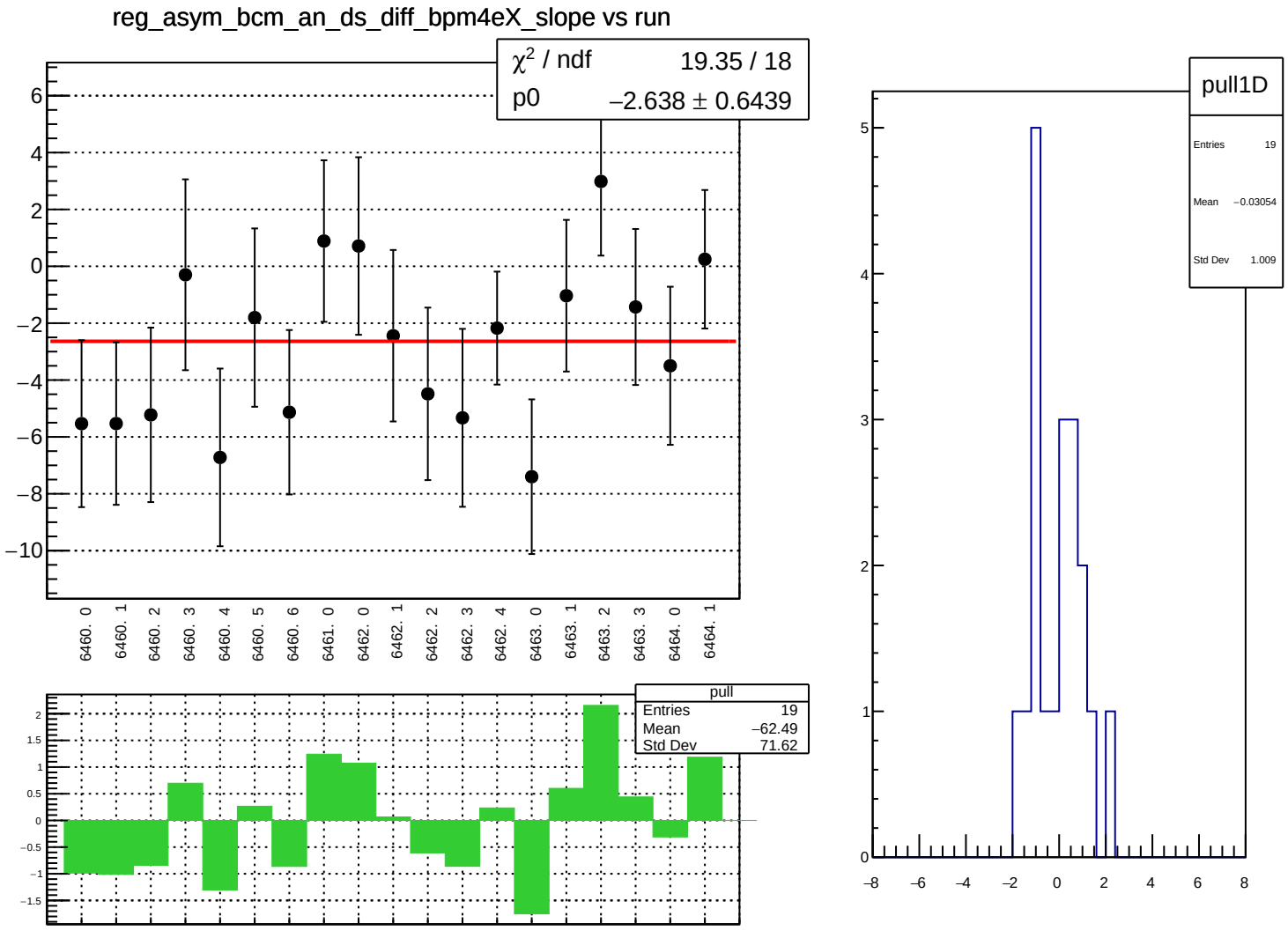

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 21.38 / 18
p0 1.878 ± 0.4135
8
6
4
2
0
−2
−4
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −55.7
Std Dev 64.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 19
Mean 0.01844
Std Dev 1.061
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

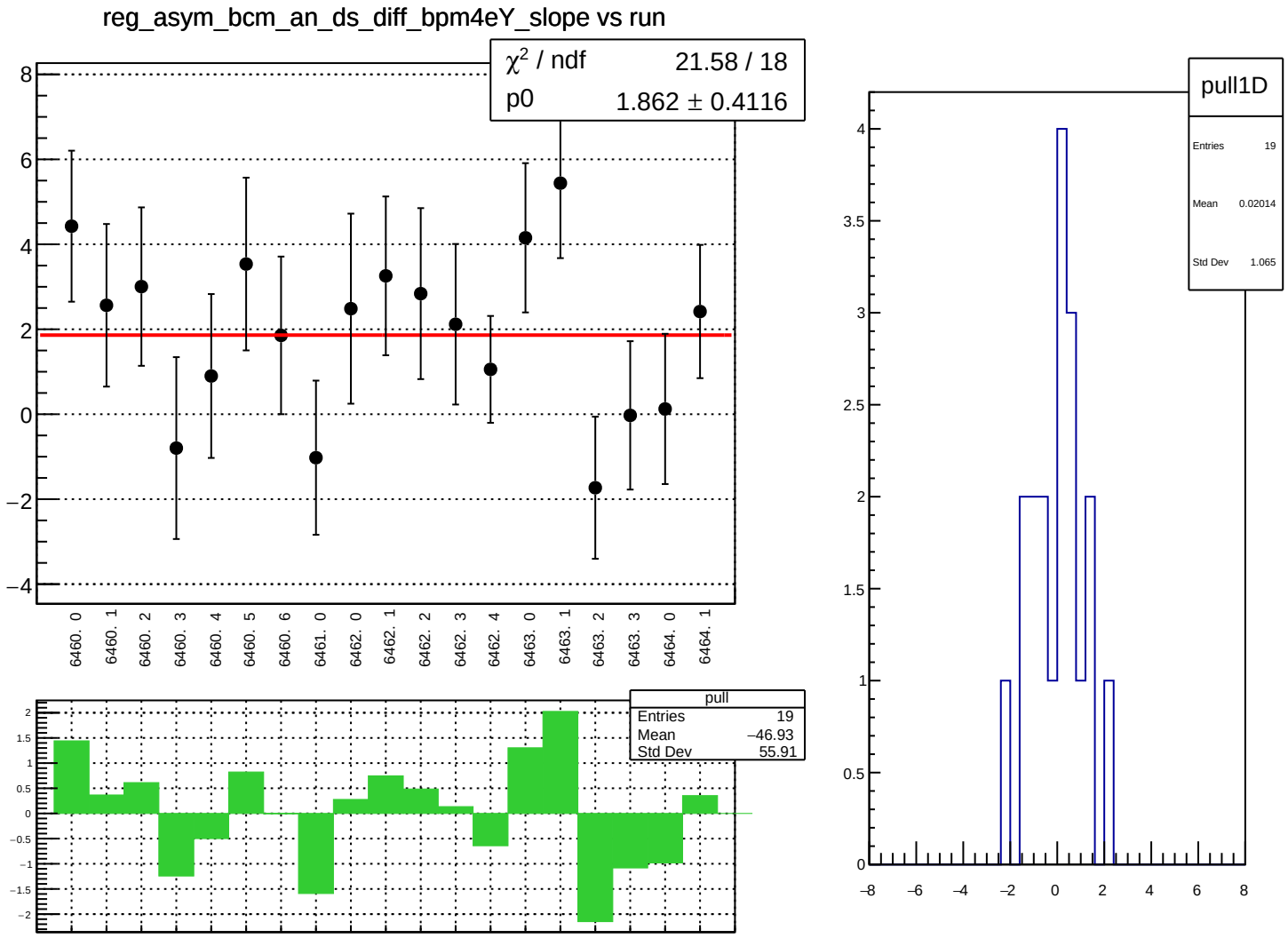

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 9.968 / 18
p0 0.1507 ± 0.01736
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
−0.05
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 2.4
Std Dev 7.664
1
0.5
0
−0.5
−1
−1.5

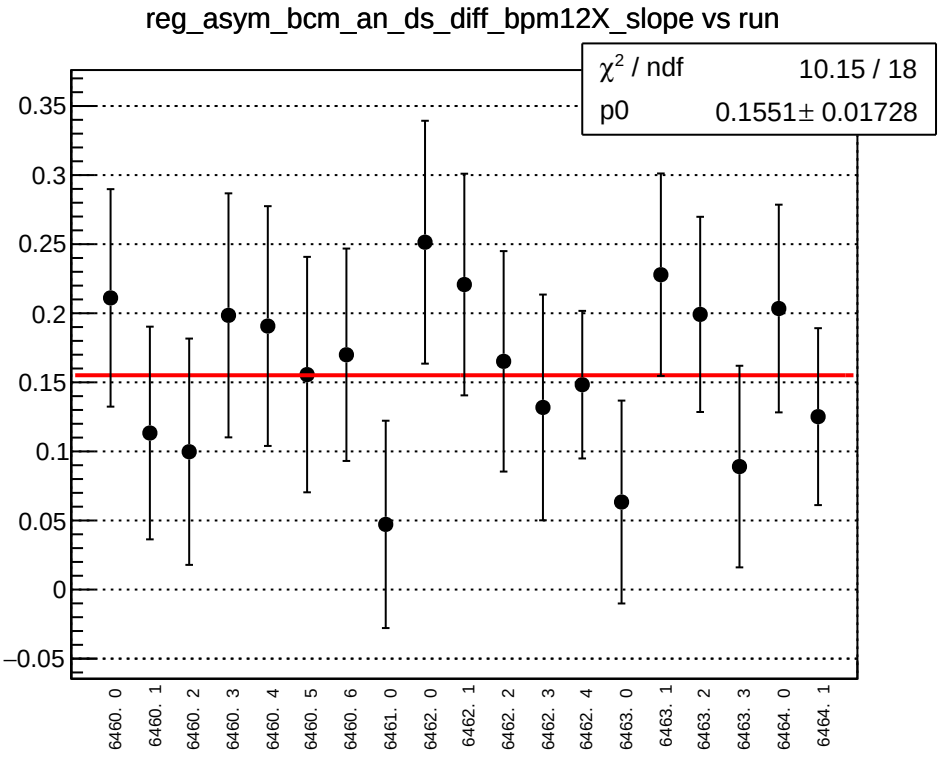

pull1D
Entries 19
Mean 0.02632
Std Dev 0.7238
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

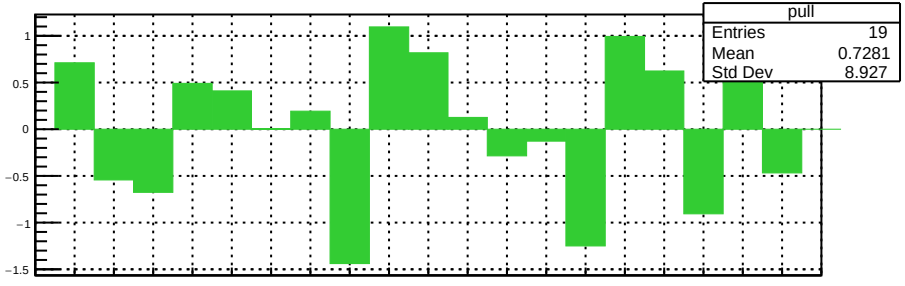

reg_asym_bcm_an_ds_diff_bpm4aX_slope vs run
χ² / ndf 18.31 / 18
p0 1.971 ± 0.5976
10
8
6
4
2
0
−2
−4
−6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −71.6
Std Dev 80.71
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 19
Mean 0.02615
Std Dev 0.9814
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

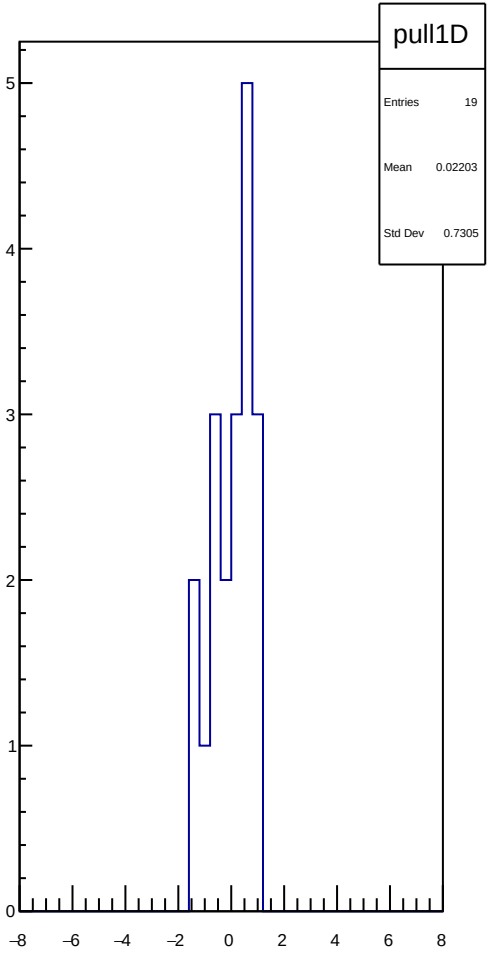

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 18.58 / 18
p0 −0.7632 ± 0.4061
4
2
0
−2
−4
−6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 176.6
Std Dev 183.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 19
Mean 0.0005998
Std Dev 0.9889
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

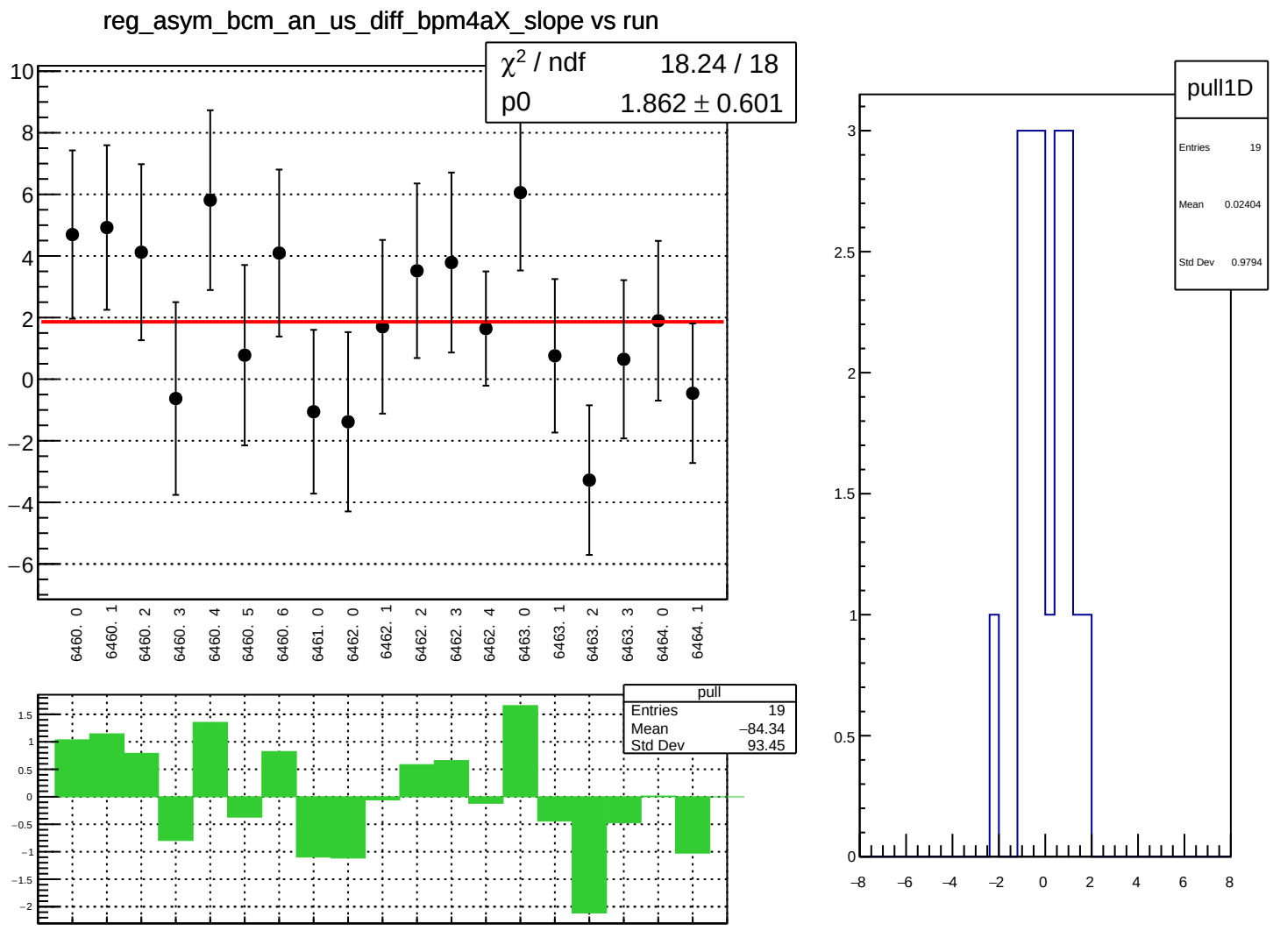

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 19.35 / 18
p0 −2.638 ± 0.6439
6
4
2
0
−2
−4
−6
−8
−10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −62.49
Std Dev 71.62
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 19
Mean −0.03054
Std Dev 1.009
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

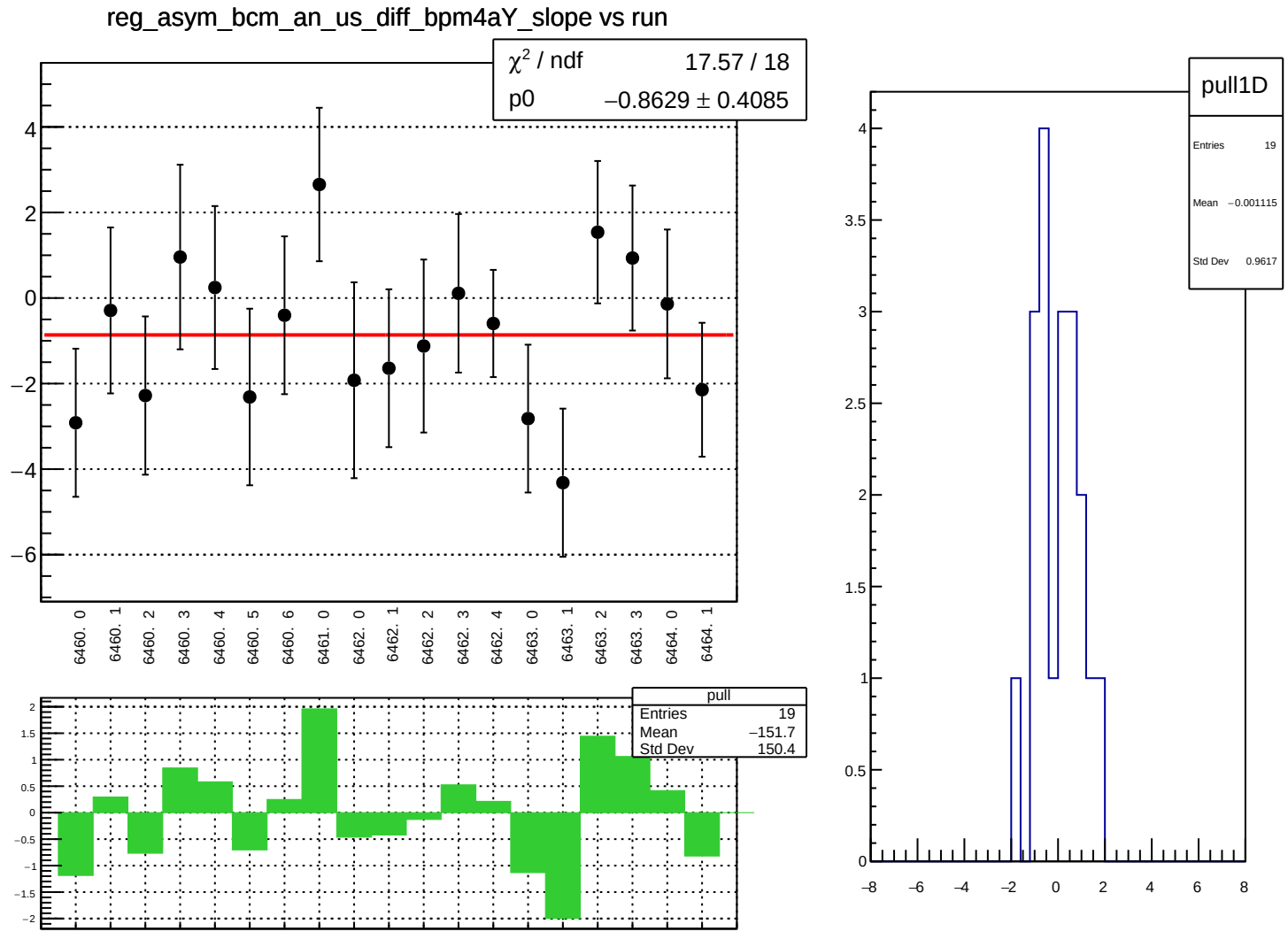

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 21.58 / 18
p0 1.862 ± 0.4116
8
6
4
2
0
−2
−4
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −46.93
Std Dev 55.91
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 19
Mean 0.02014
Std Dev 1.065
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

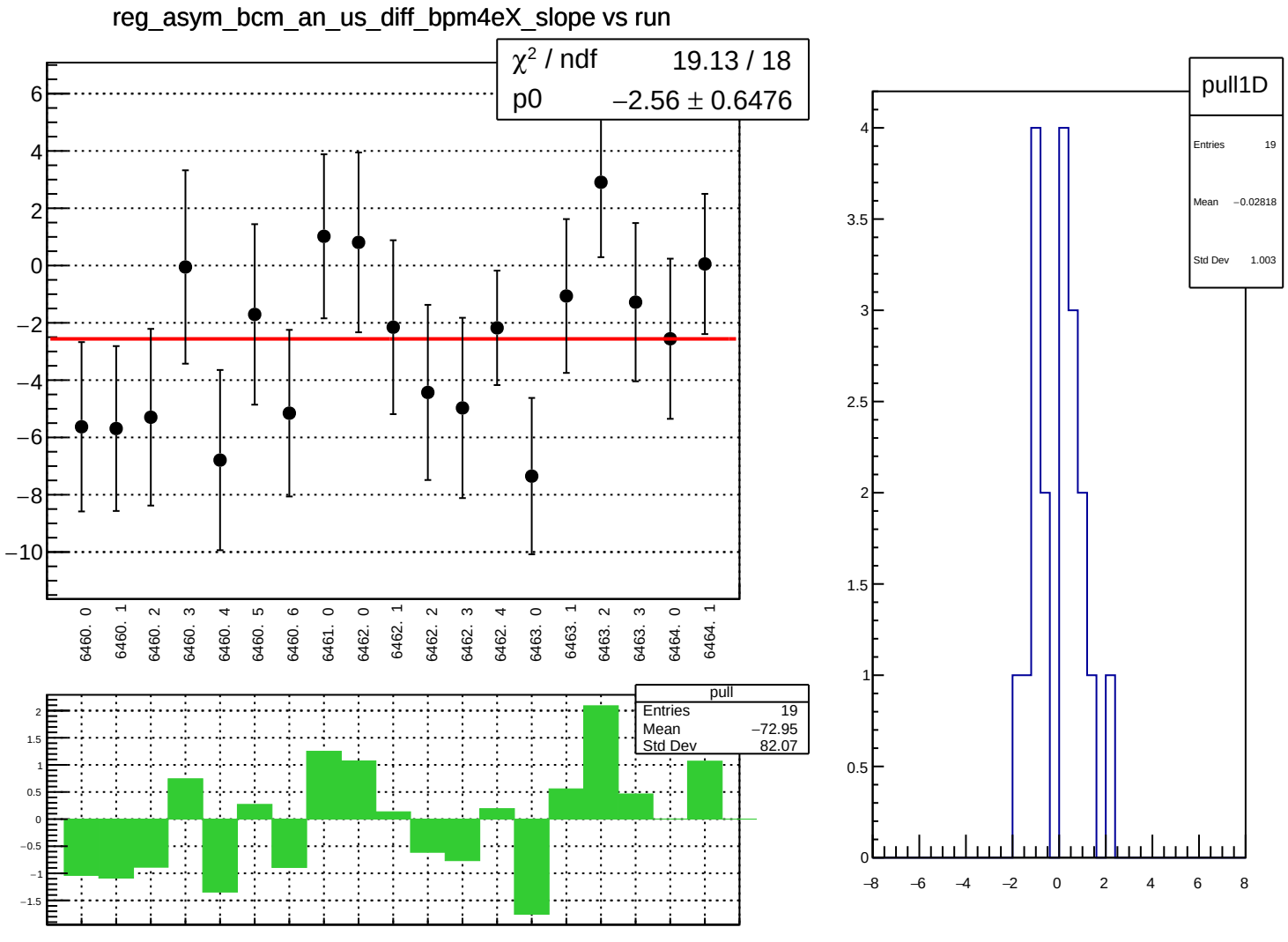

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 10.15 / 18
p0 0.1551± 0.01728
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
−0.05
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

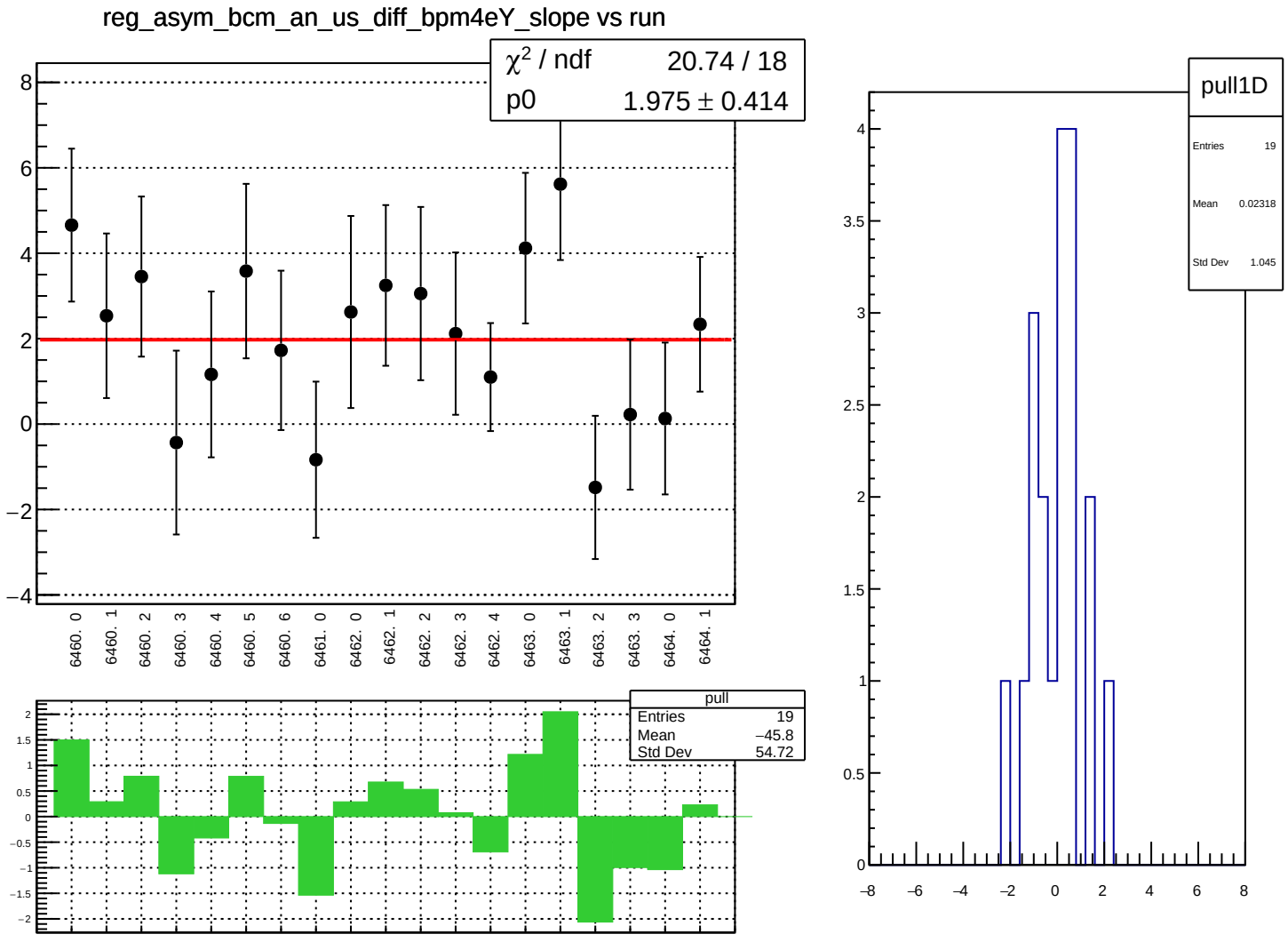

pull
Entries 19
Mean 0.7281
Std Dev 8.927
1
0.5
0
−0.5
−1
−1.5

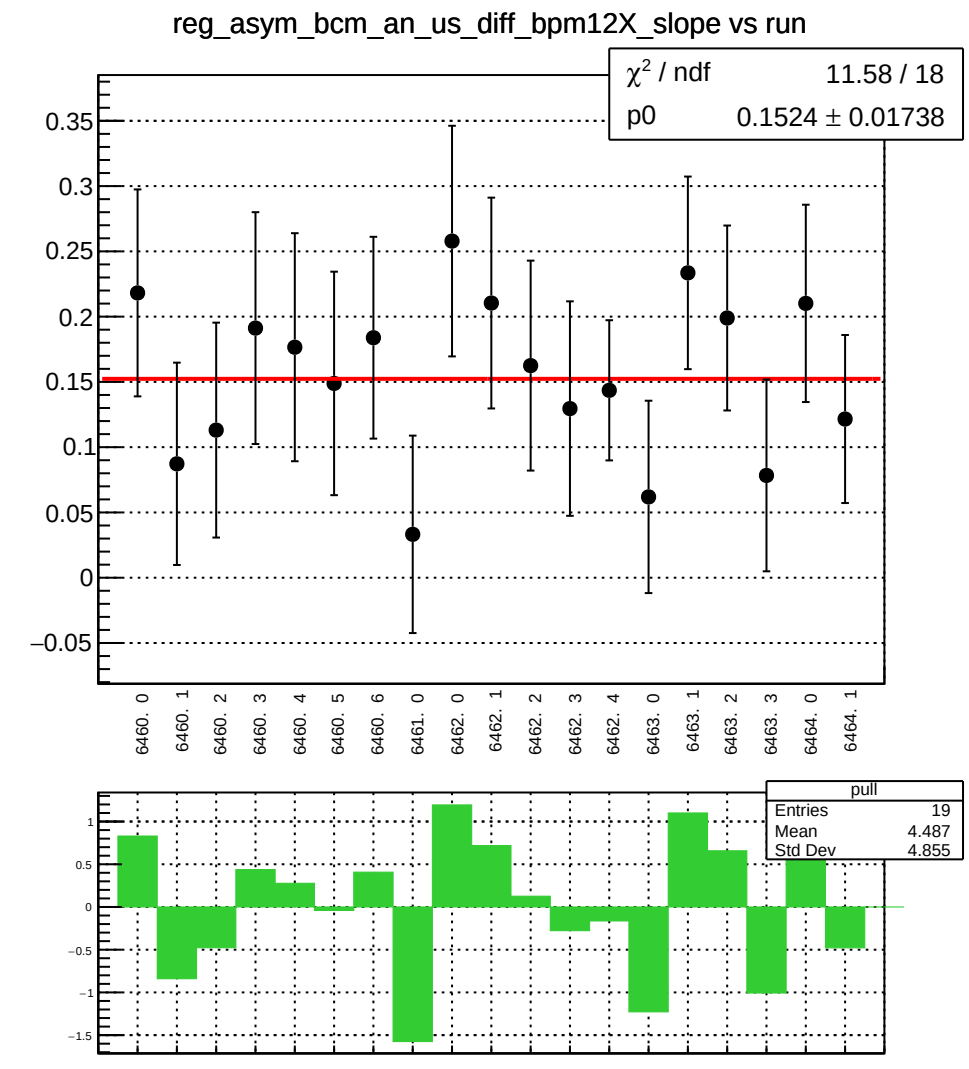

pull1D
Entries 19
Mean 0.02203
Std Dev 0.7305
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

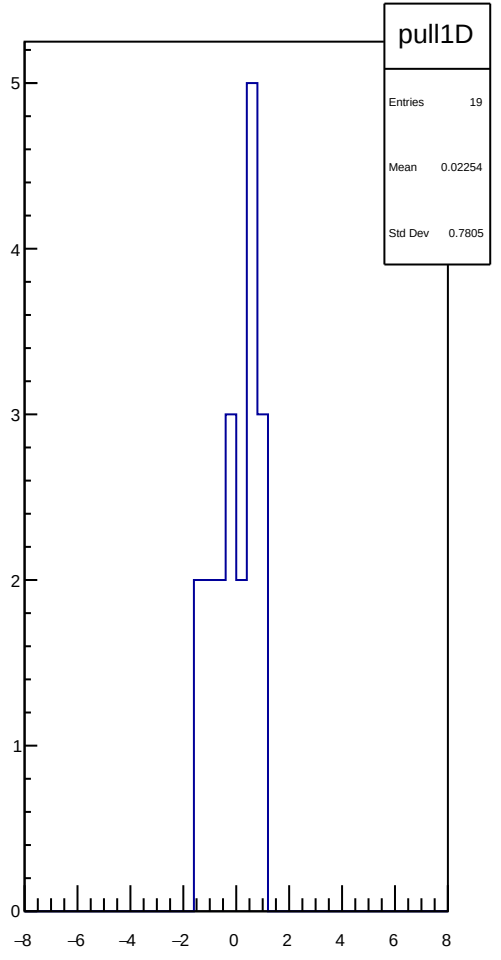

reg_asym_bcm_an_us_diff_bpm4aX_slope vs run
χ² / ndf 18.24 / 18
p0 1.862 ± 0.601
10
8
6
4
2
0
−2
−4
−6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −84.34
Std Dev 93.45
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 19
Mean 0.02404
Std Dev 0.9794
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

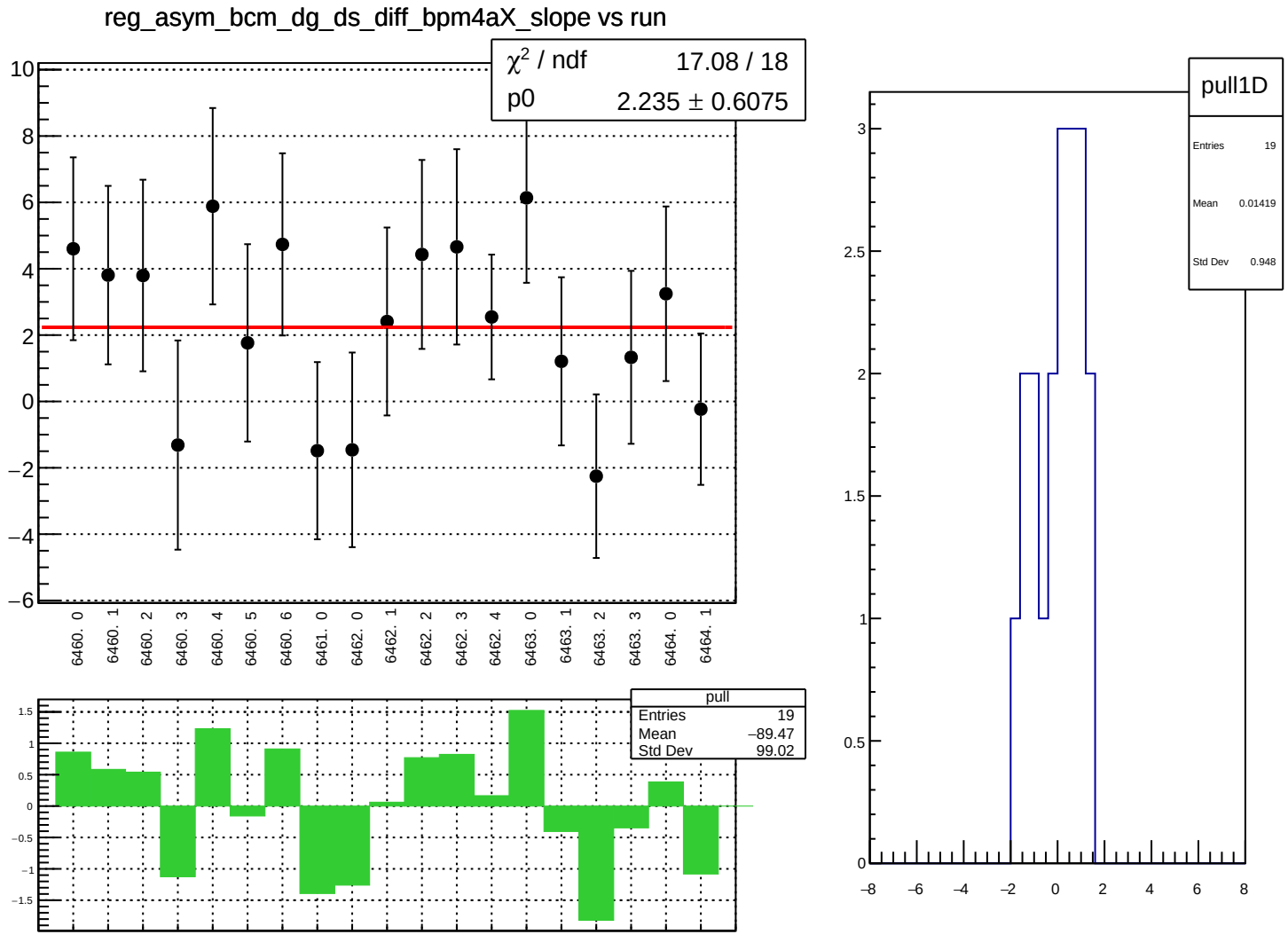

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 17.57 / 18
p0 −0.8629 ± 0.4085
4
2
0
−2
−4
−6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −151.7
Std Dev 150.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 19
Mean −0.001115
Std Dev 0.9617
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

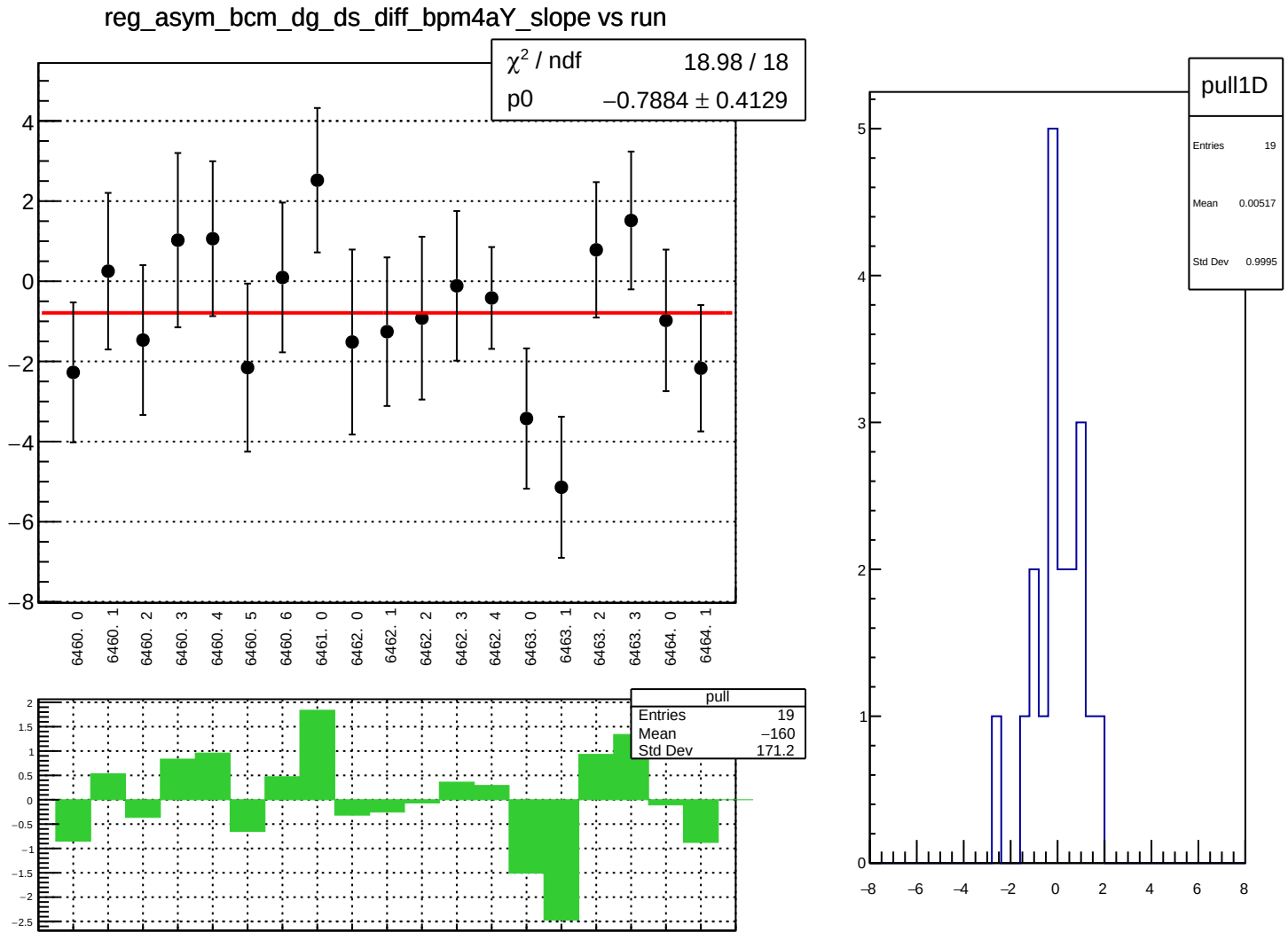

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 19.13 / 18
p0 −2.56 ± 0.6476
6
4
2
0
−2
−4
−6
−8
−10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −72.95
Std Dev 82.07
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 19
Mean −0.02818
Std Dev 1.003
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

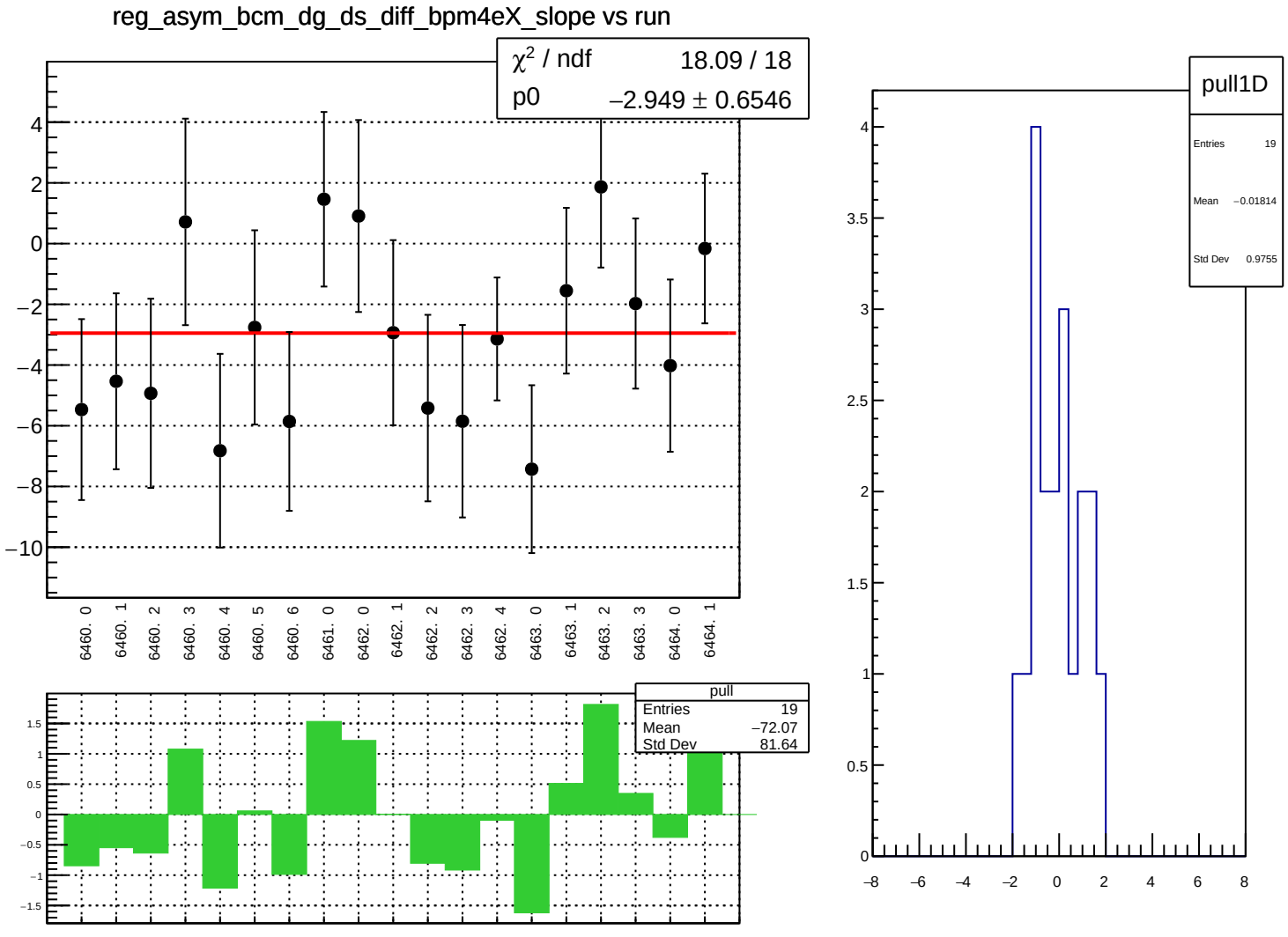

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 20.74 / 18
p0 1.975 ± 0.414
8
6
4
2
0
−2
−4
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −45.8
Std Dev 54.72
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 19
Mean 0.02318
Std Dev 1.045
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

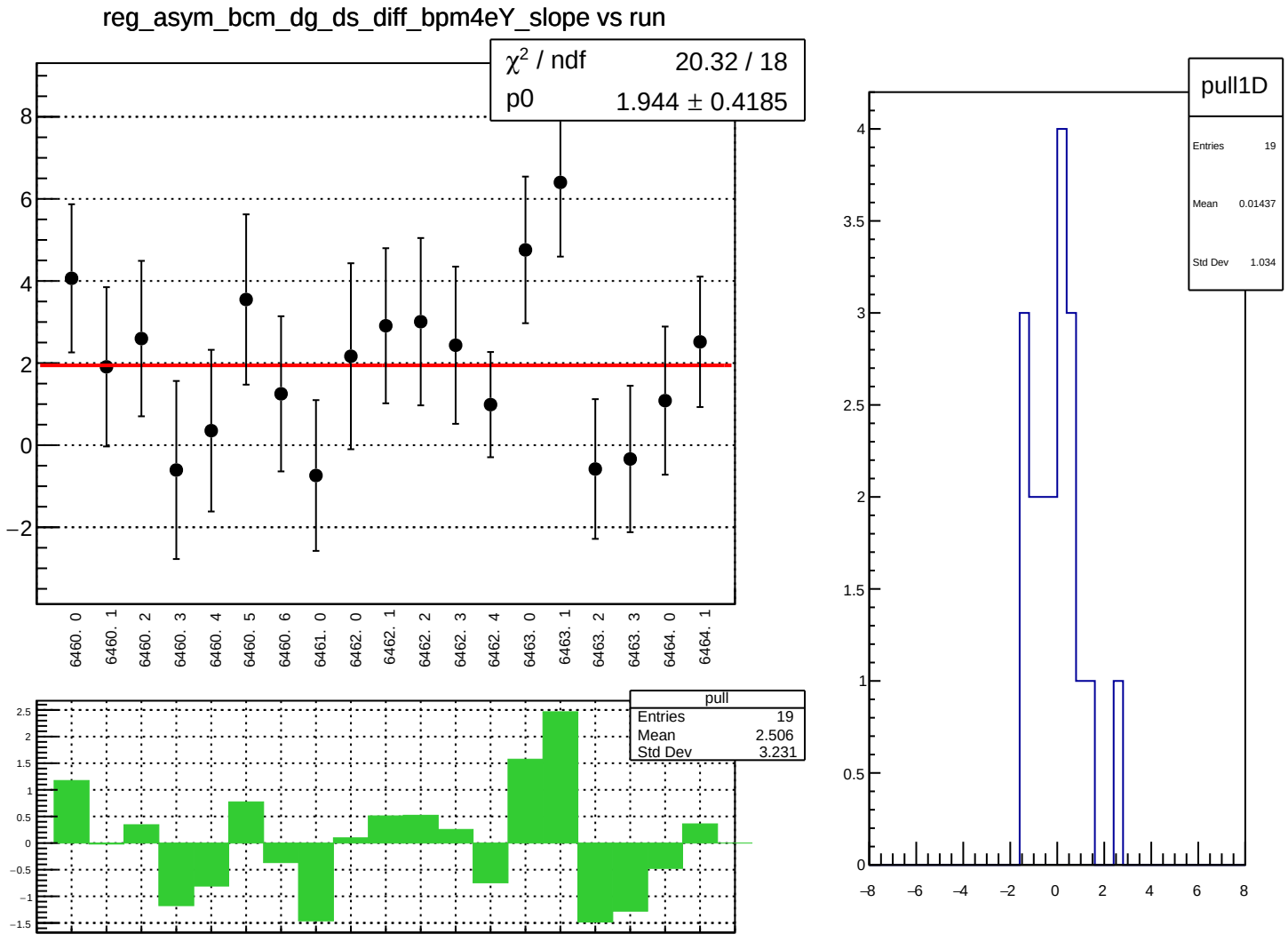

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 11.58 / 18
p0 0.1524 ± 0.01738
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
−0.05
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 4.487
Std Dev 4.855
1
0.5
0
−0.5
−1
−1.5

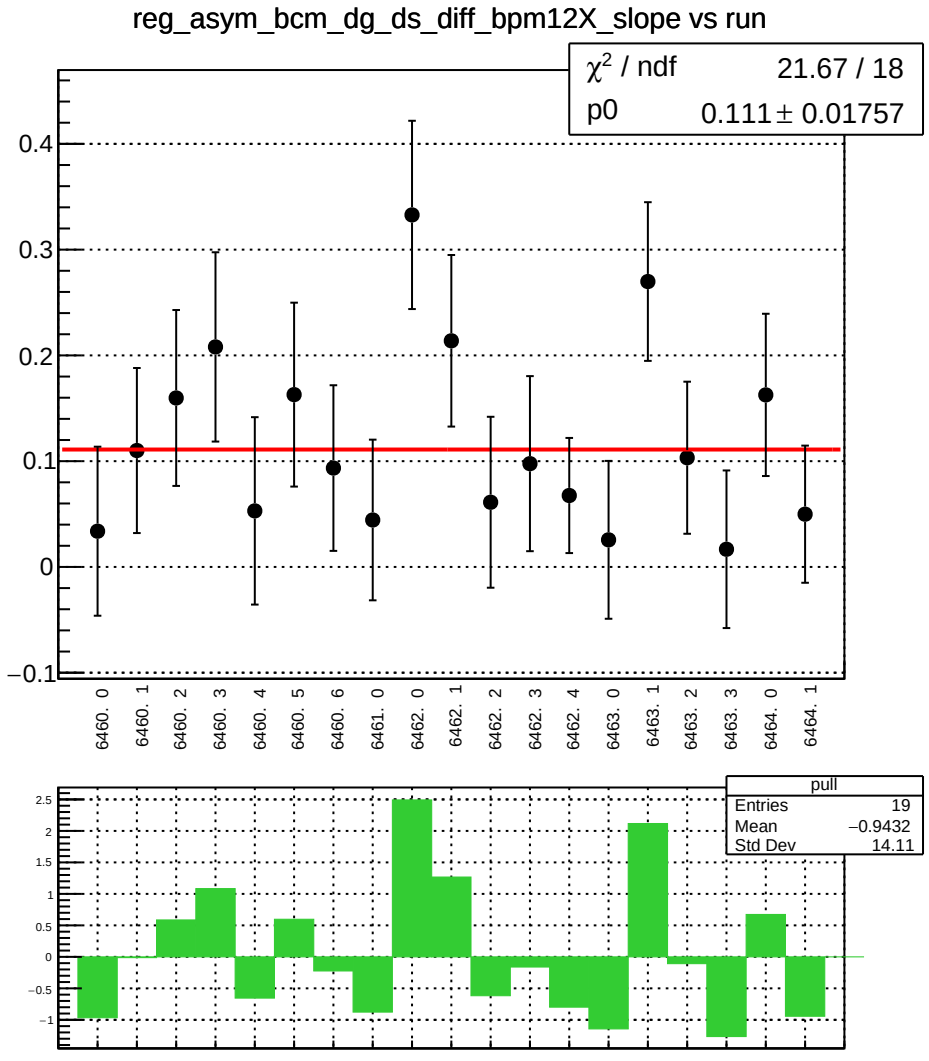

pull1D
Entries 19
Mean 0.02254
Std Dev 0.7805
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

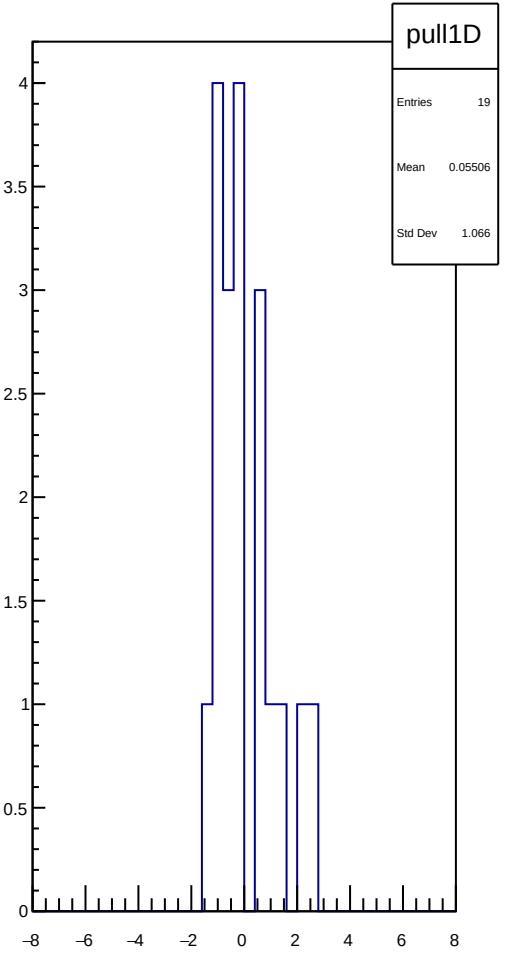

reg_asym_bcm_dg_ds_diff_bpm4aX_slope vs run
χ² / ndf 17.08 / 18
p0 2.235 ± 0.6075
10
8
6
4
2
0
−2
−4
−6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −89.47
Std Dev 99.02
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 19
Mean 0.01419
Std Dev 0.948
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

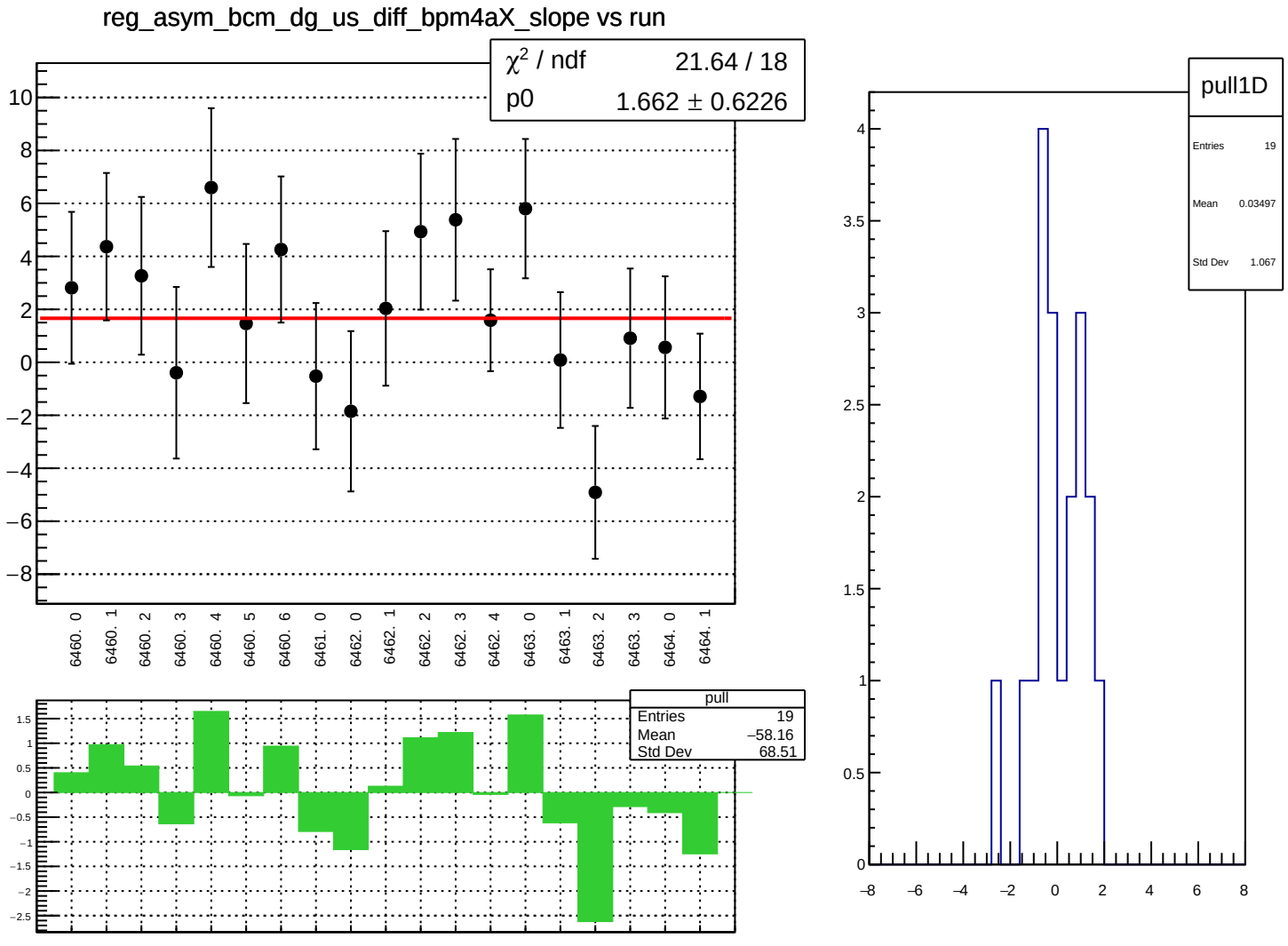

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 18.98 / 18
p0 −0.7884 ± 0.4129
4
2
0
−2
−4
−6
−8
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −160
Std Dev 171.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 19
Mean 0.00517
Std Dev 0.9995
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

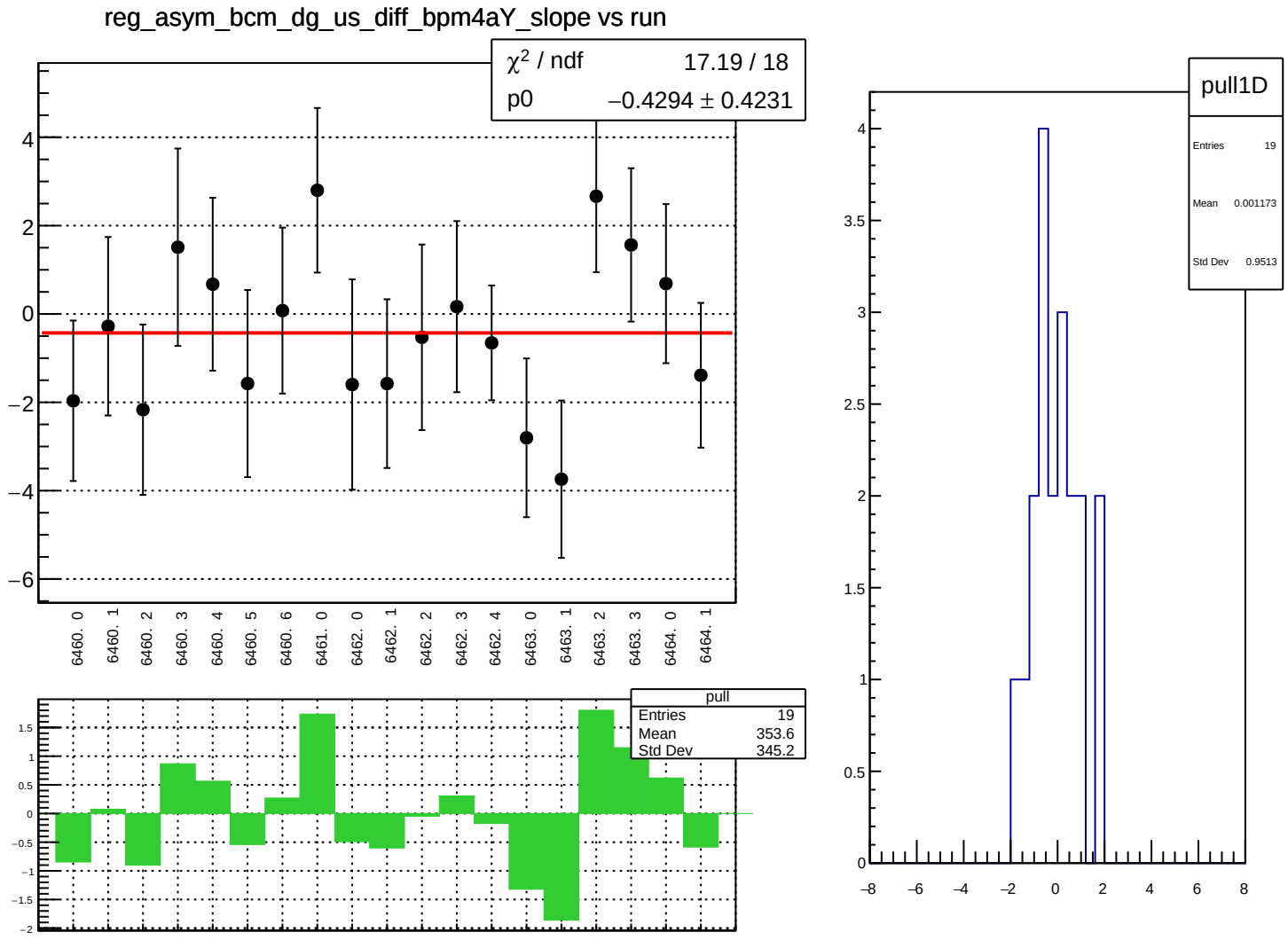

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 18.09 / 18
p0 −2.949 ± 0.6546
4
2
0
−2
−4
−6
−8
−10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −72.07
Std Dev 81.64
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 19
Mean −0.01814
Std Dev 0.9755
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

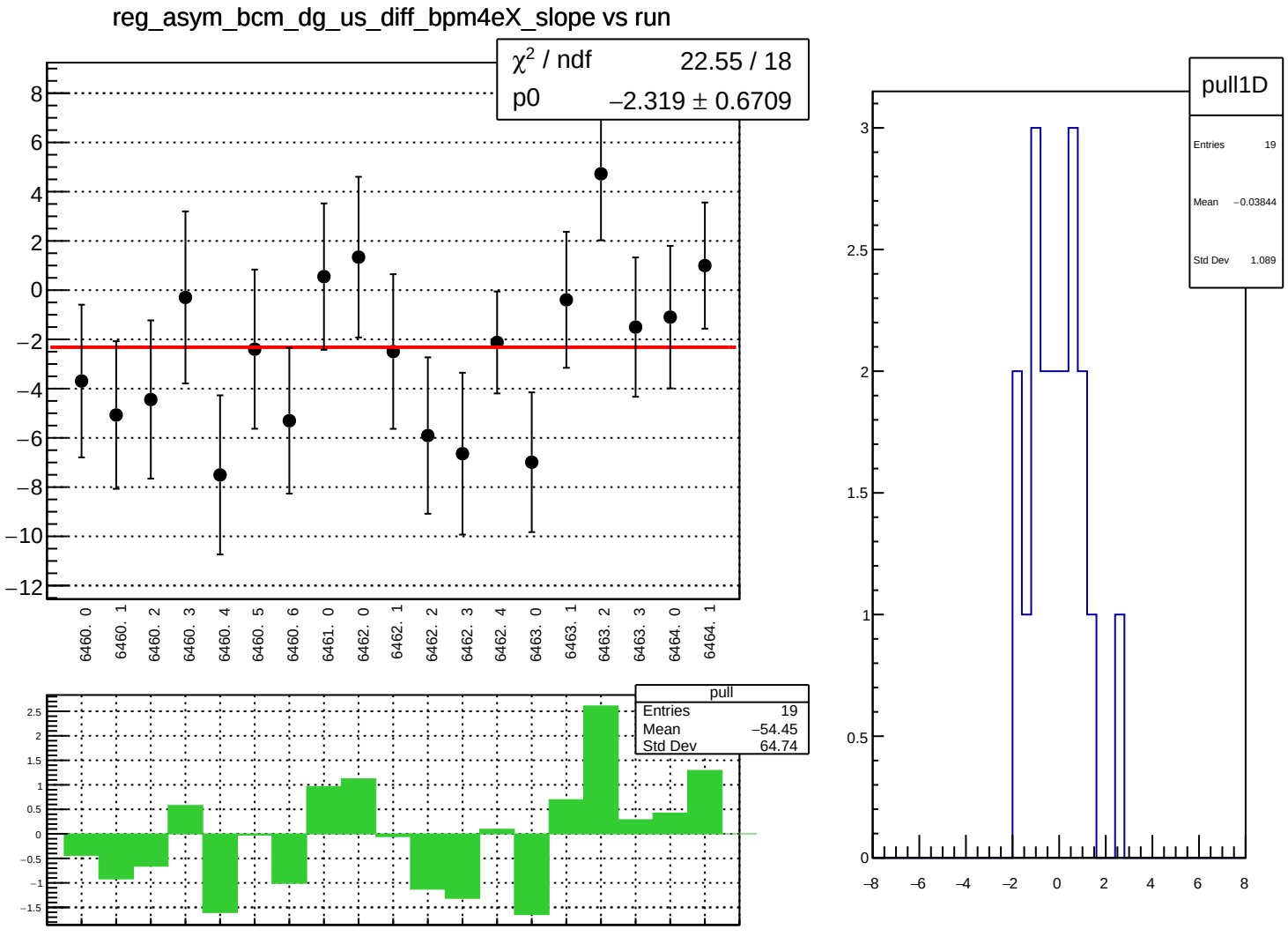

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 20.32 / 18
p0 1.944 ± 0.4185
8
6
4
2
0
−2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 2.506
Std Dev 3.231
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 19
Mean 0.01437
Std Dev 1.034
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

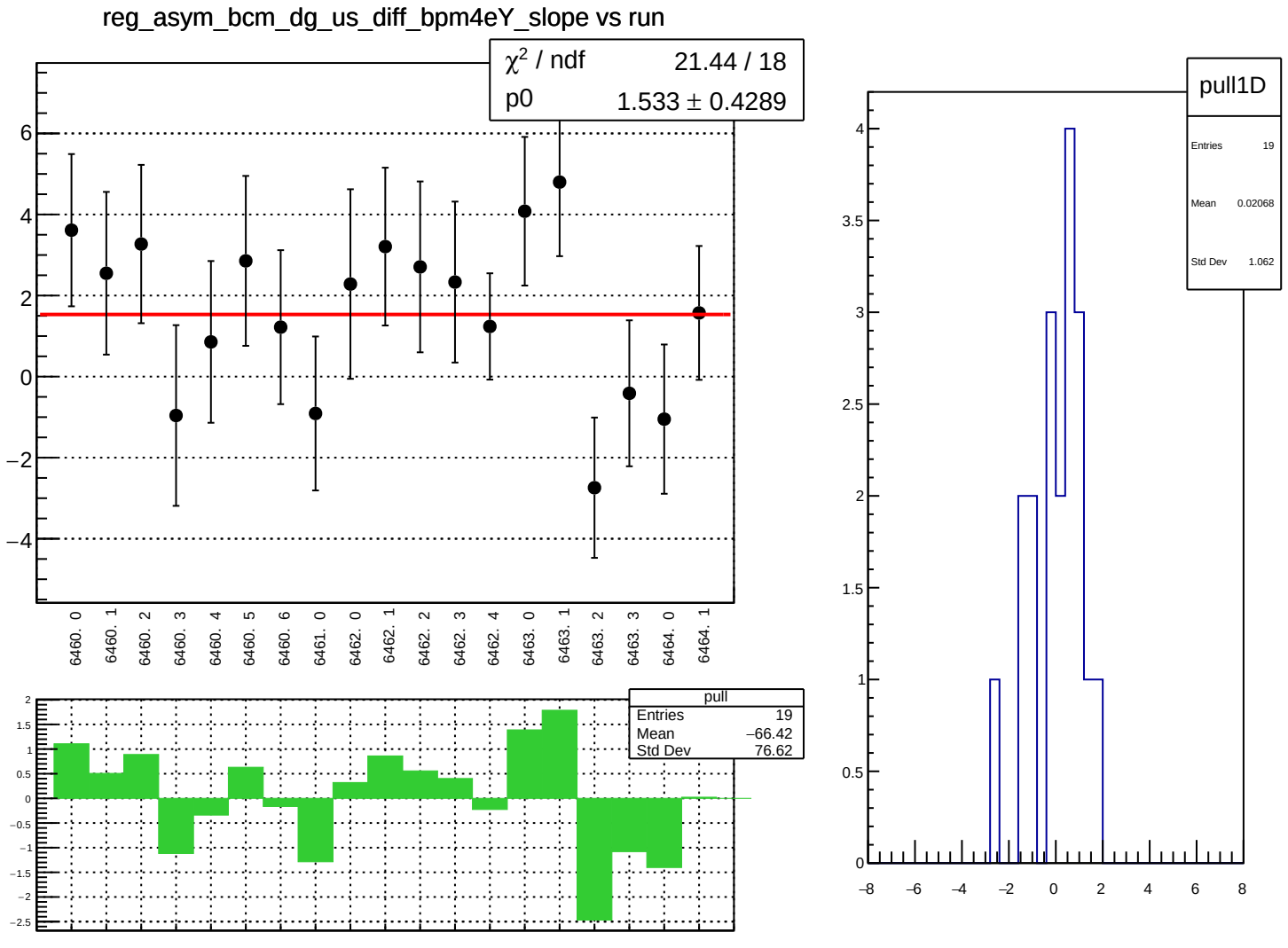

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 21.67 / 18
p0 0.111 ± 0.01757
0.4
0.3
0.2
0.1
0
−0.1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −0.9432
Std Dev 14.11
2.5
2
1.5
1
0.5
0
−0.5
−1

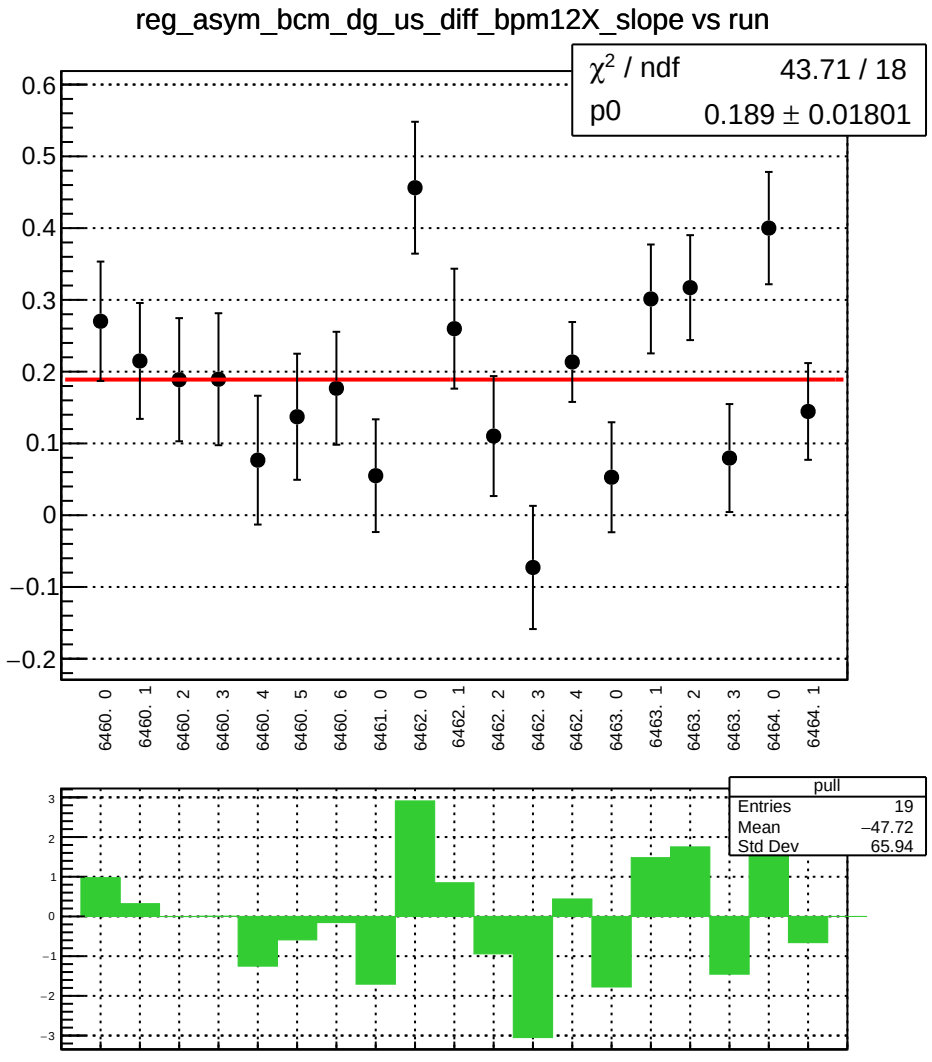

pull1D
Entries 19
Mean 0.05506
Std Dev 1.066
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

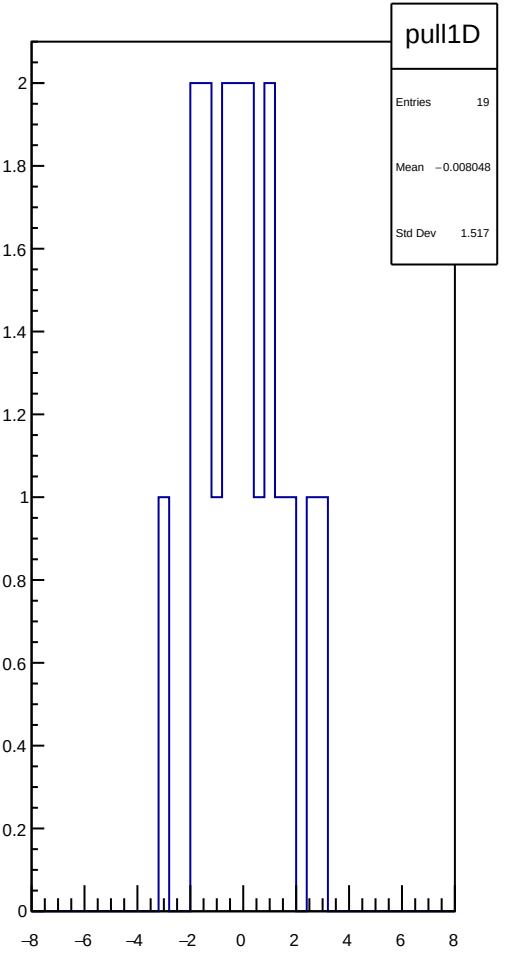

reg_asym_bcm_dg_us_diff_bpm4aX_slope vs run
χ² / ndf 21.64 / 18
p0 1.662 ± 0.6226
10
8
6
4
2
0
−2
−4
−6
−8
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −58.16
Std Dev 68.51
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 19
Mean 0.03497
Std Dev 1.067
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

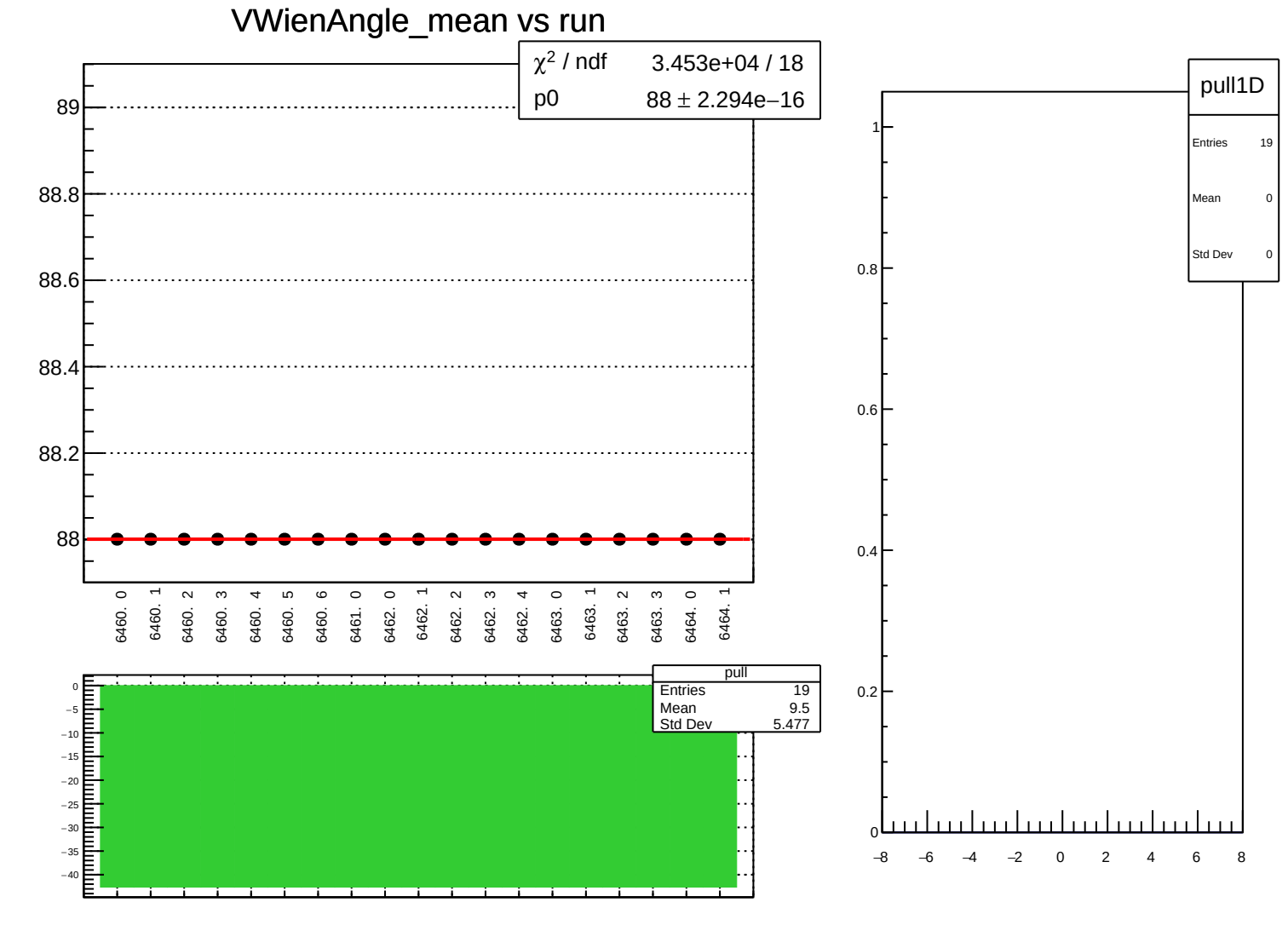

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 17.19 / 18
p0 −0.4294 ± 0.4231
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 353.6
Std Dev 345.2
pull1D
Entries 19
Mean 0.001173
Std Dev 0.9513

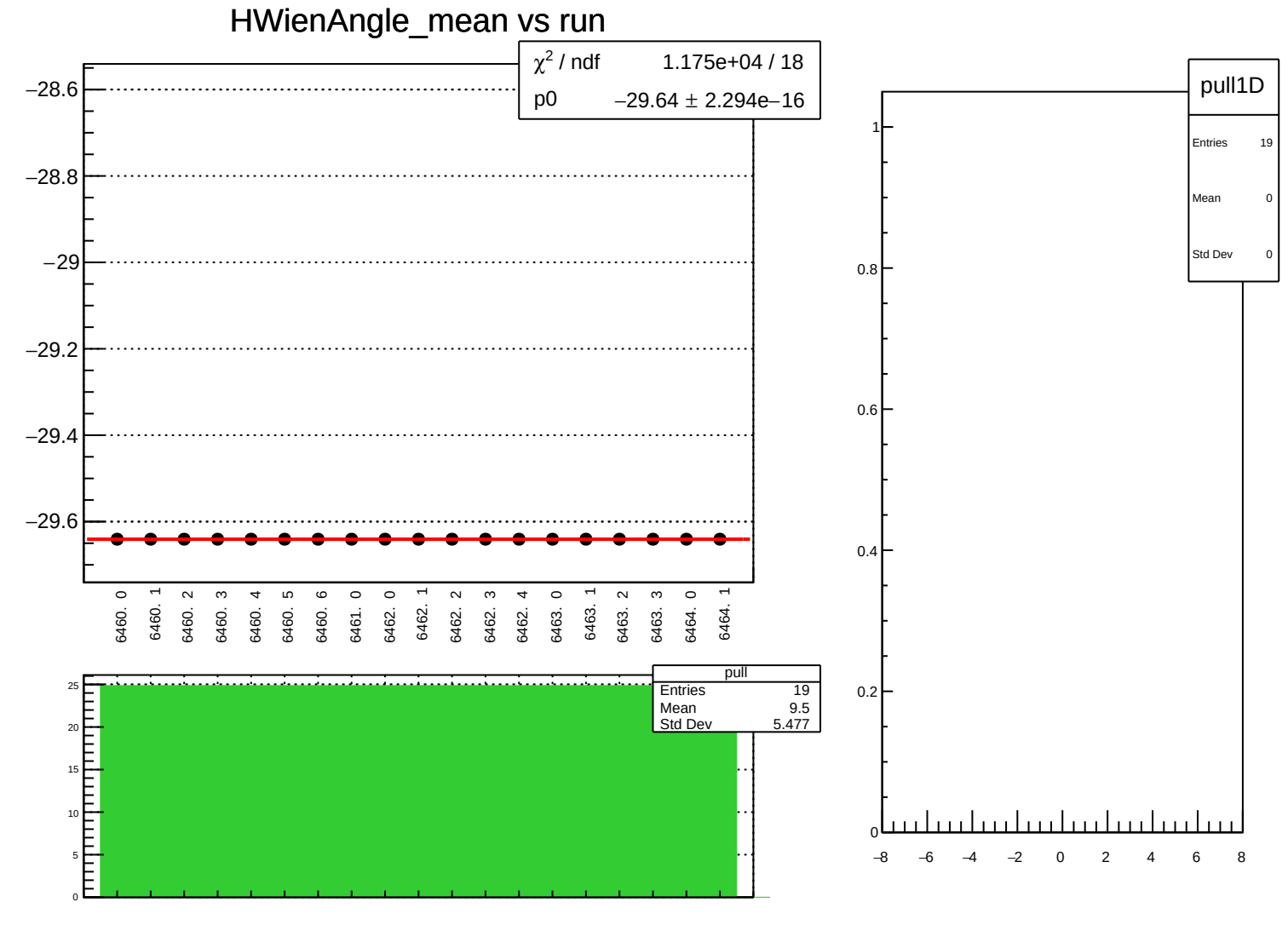

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 22.55 / 18
p0 −2.319 ± 0.6709
8
6
4
2
0
−2
−4
−6
−8
−10
−12
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −54.45
Std Dev 64.74
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 19
Mean −0.03844
Std Dev 1.089
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

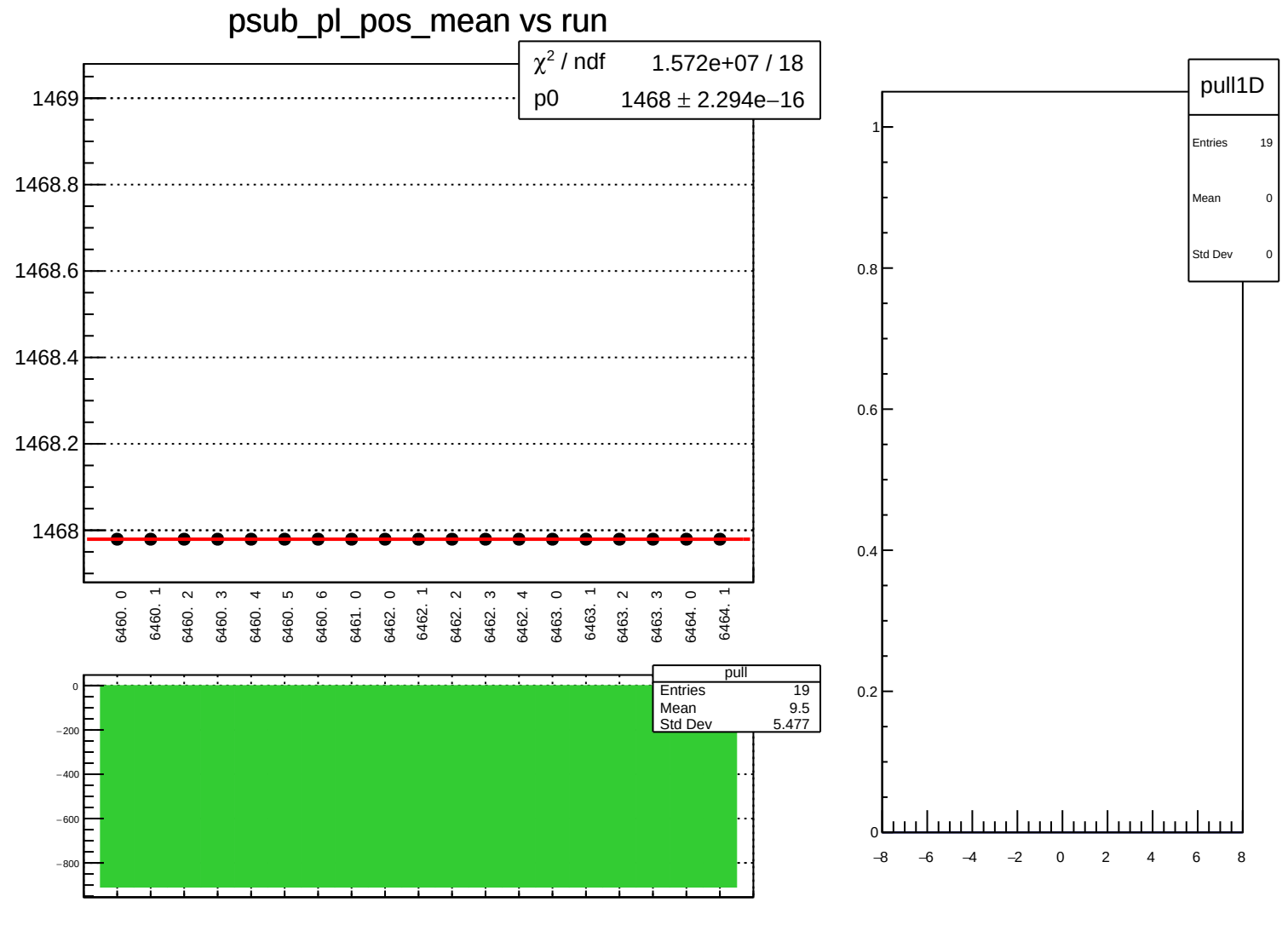

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 21.44 / 18
p0 1.533 ± 0.4289
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −66.42
Std Dev 76.62
pull1D
Entries 19
Mean 0.02068
Std Dev 1.062

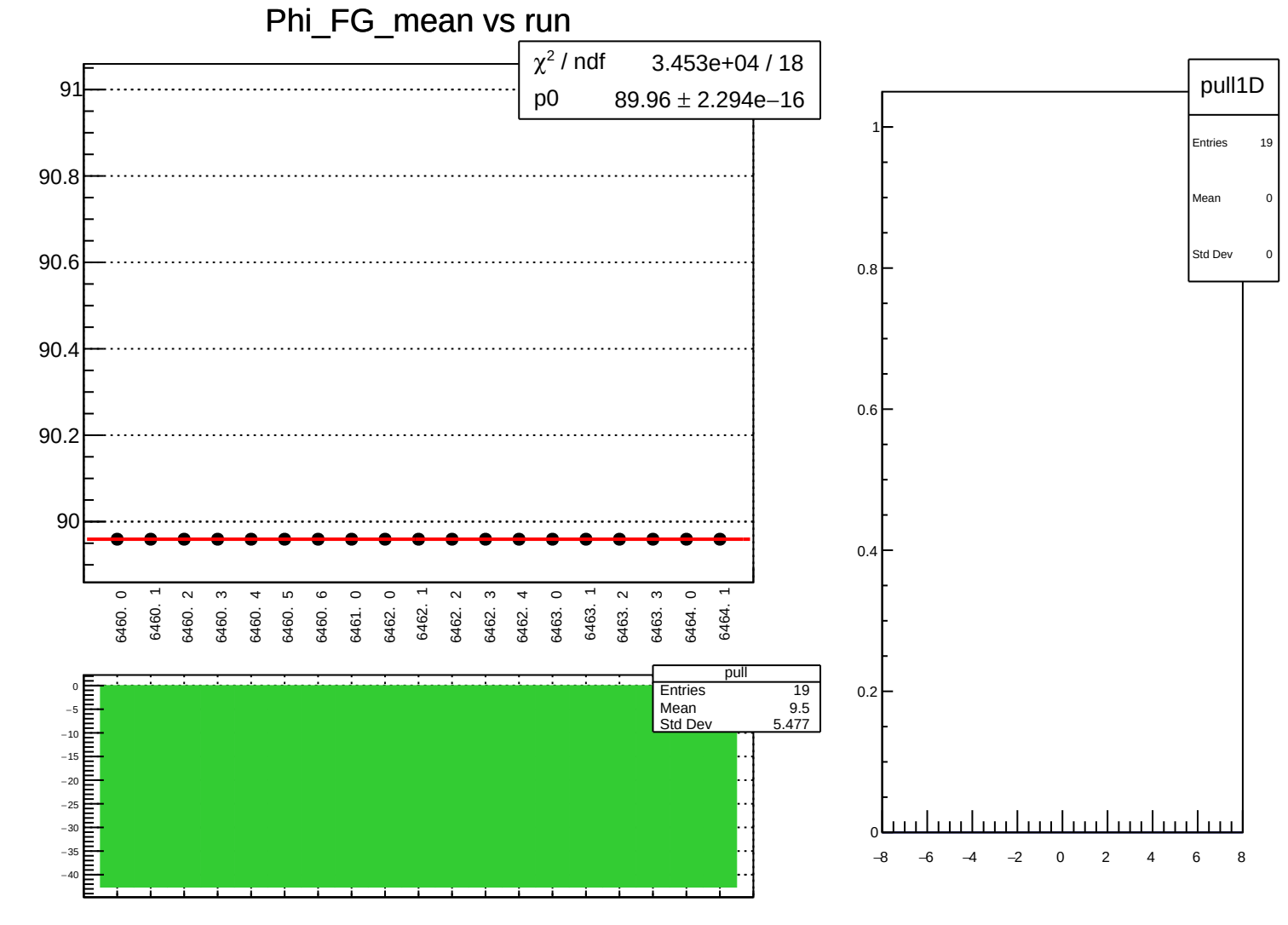

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 43.71 / 18
p0 0.189 ± 0.01801
0.6
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean −47.72
Std Dev 65.94
3
2
1
0
−1
−2
−3

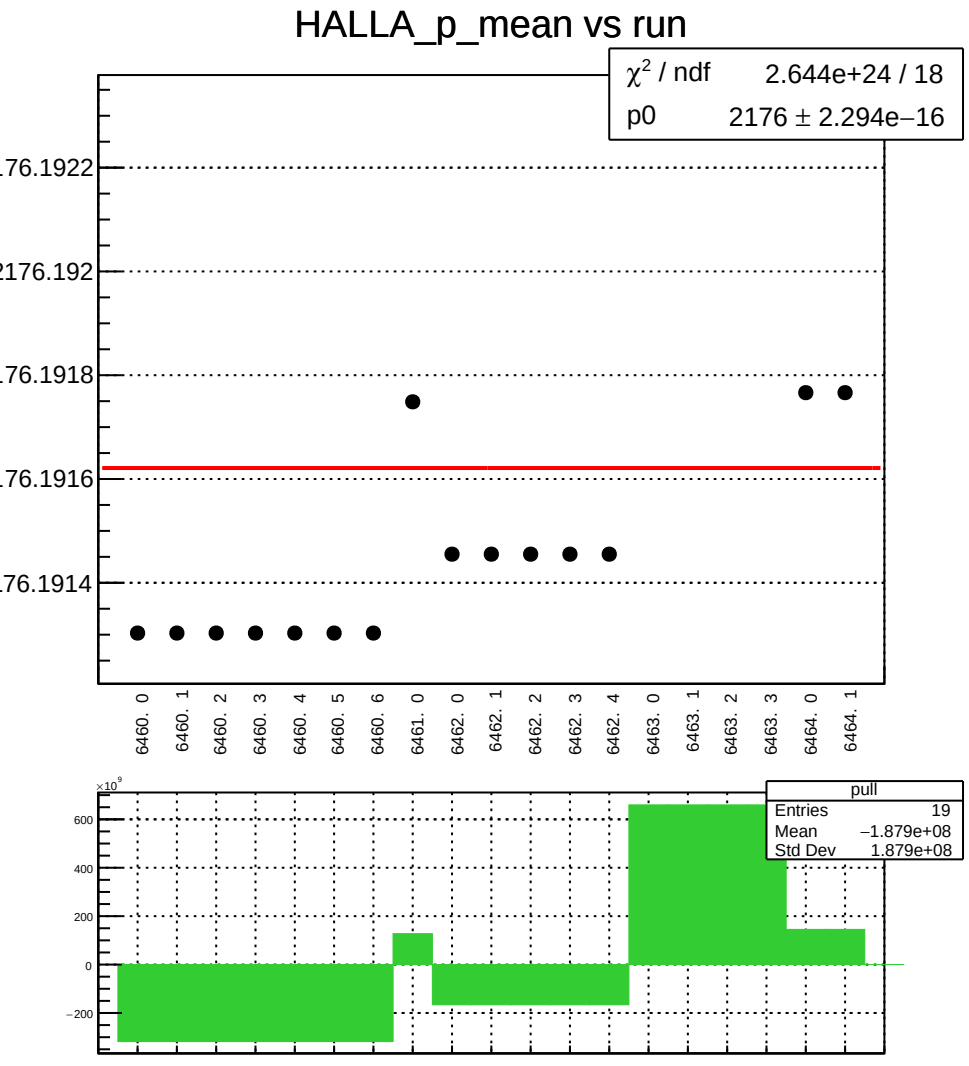

pull1D
Entries 19
Mean −0.008048
Std Dev 1.517
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

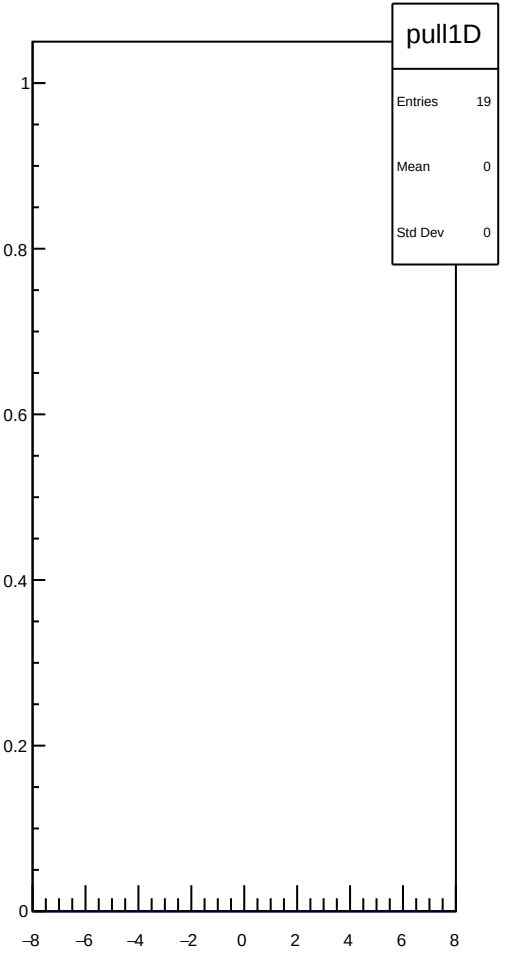

VWienAngle_mean vs run
χ² / ndf 3.453e+04 / 18
p0 88 ± 2.294e−16
89
88.8
88.6
88.4
88.2
88
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 9.5
Std Dev 5.477
0
−5
−10
−15
−20
−25
−30
−35
−40
pull1D
Entries 19
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

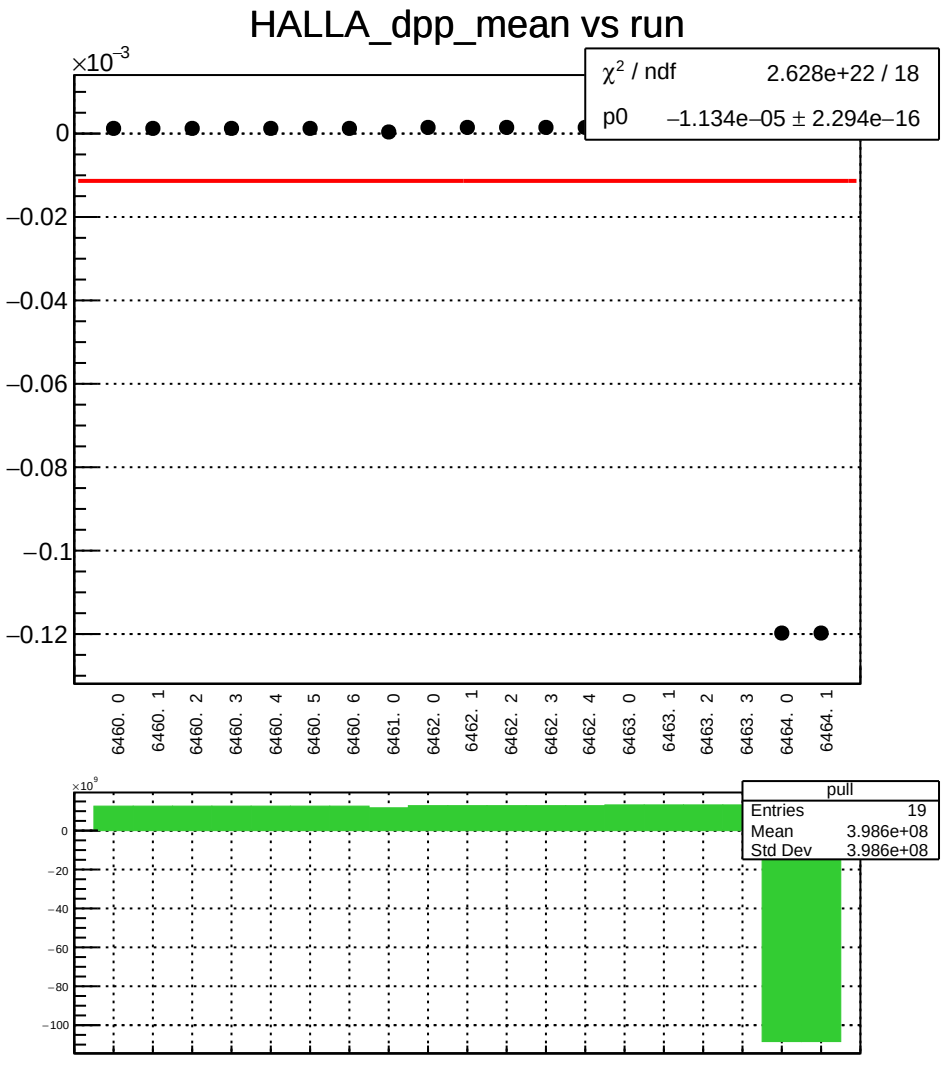

HWienAngle_mean vs run
χ² / ndf 1.175e+04 / 18
p0 −29.64 ± 2.294e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 9.5
Std Dev 5.477
25
20
15
10
5
0
pull1D
Entries 19
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

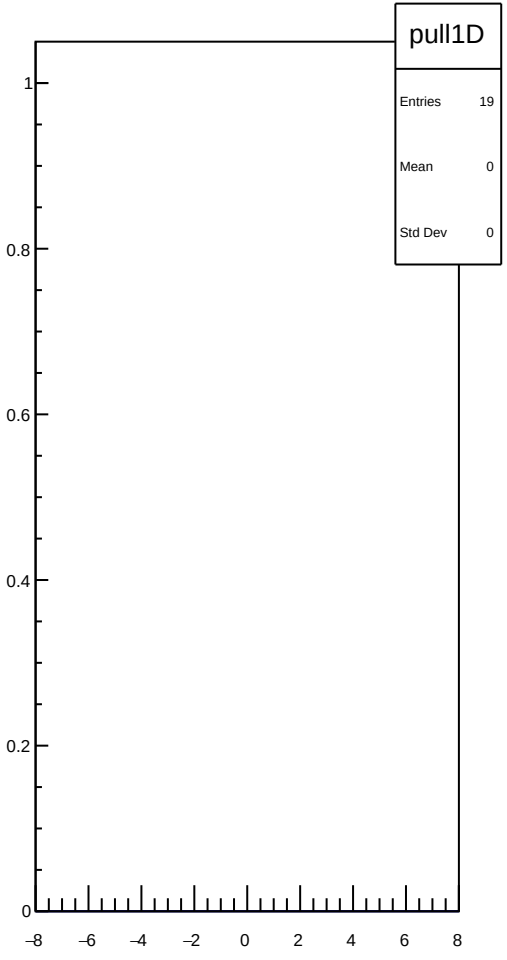

psub_pl_pos_mean vs run
χ² / ndf 1.572e+07 / 18
p0 1468 ± 2.294e−16
1469
1468.8
1468.6
1468.4
1468.2
1468
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 9.5
Std Dev 5.477
0
−200
−400
−600
−800
pull1D
Entries 19
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

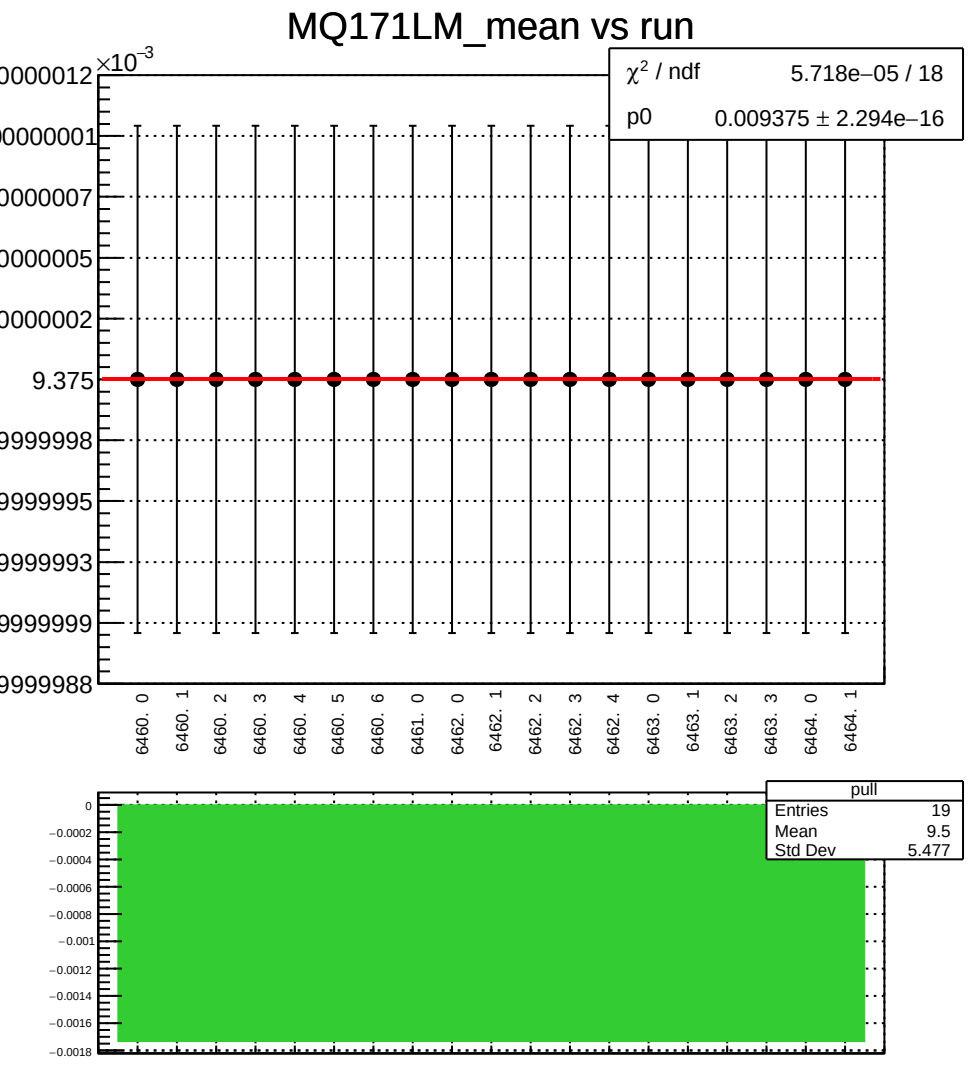

Phi_FG_mean vs run
χ² / ndf 3.453e+04 / 18
p0 89.96 ± 2.294e−16
91
90.8
90.6
90.4
90.2
90
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 9.5
Std Dev 5.477
0
−5
−10
−15
−20
−25
−30
−35
−40
pull1D
Entries 19
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

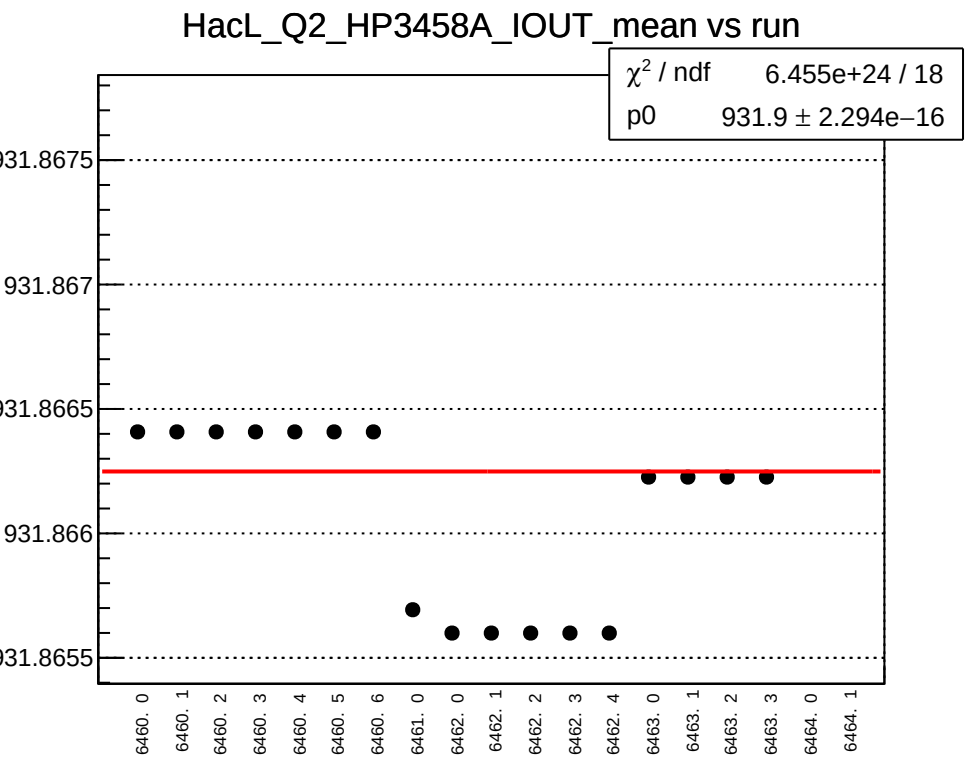

HALLA_p_mean vs run
χ² / ndf 2.644e+24 / 18
p0 2176 ± 2.294e−16
176.1922
2176.192
176.1918
176.1916
176.1914
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
×10⁹
600
400
200
0
−200
pull
Entries 19
Mean −1.879e+08
Std Dev 1.879e+08

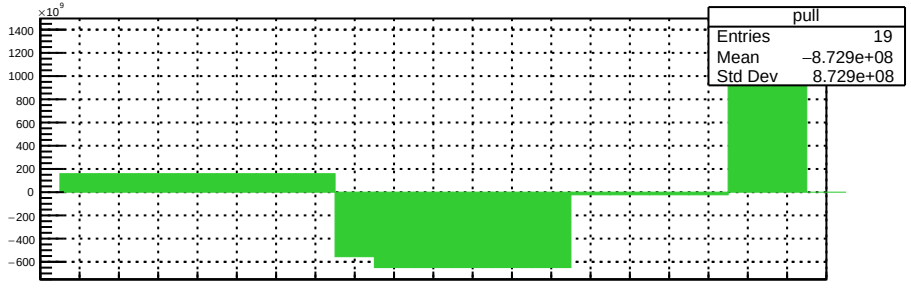

pull1D
Entries 19
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

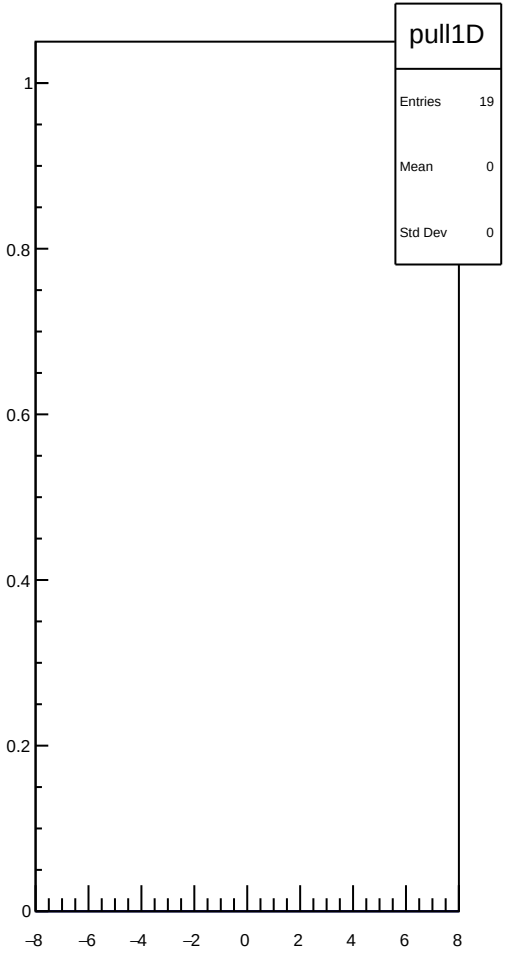

HALLA_dpp_mean vs run
×10⁻³
χ² / ndf 2.628e+22 / 18
p0 −1.134e−05 ± 2.294e−16
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
×10⁹
pull
Entries 19
Mean 3.986e+08
Std Dev 3.986e+08
0
−20
−40
−60
−80
−100

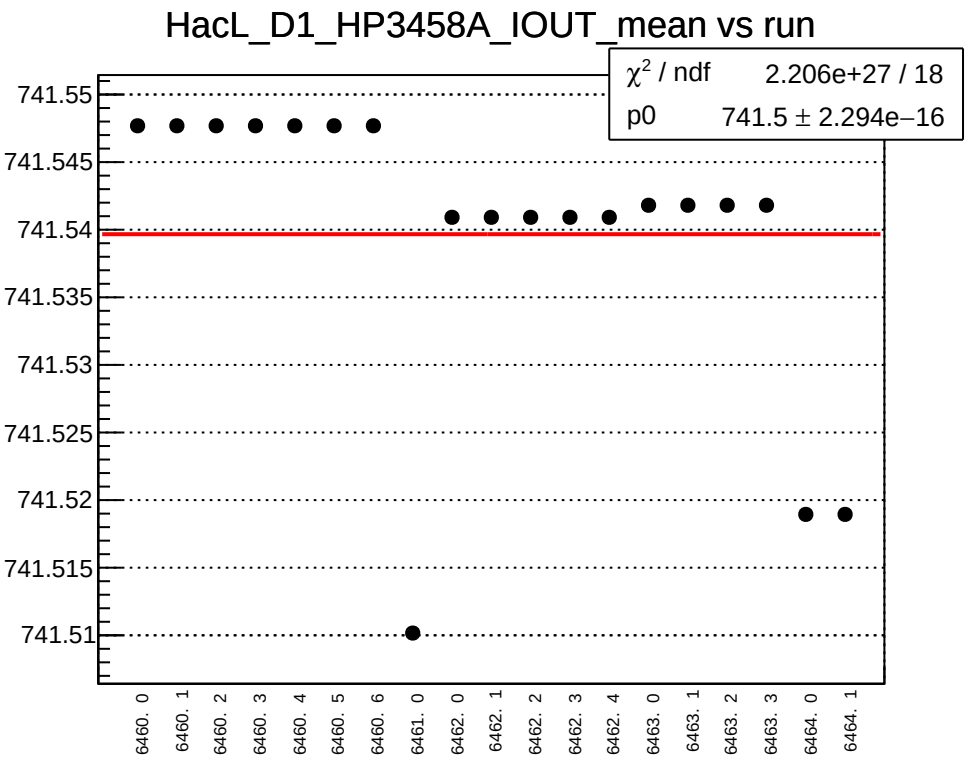

pull1D
Entries 19
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

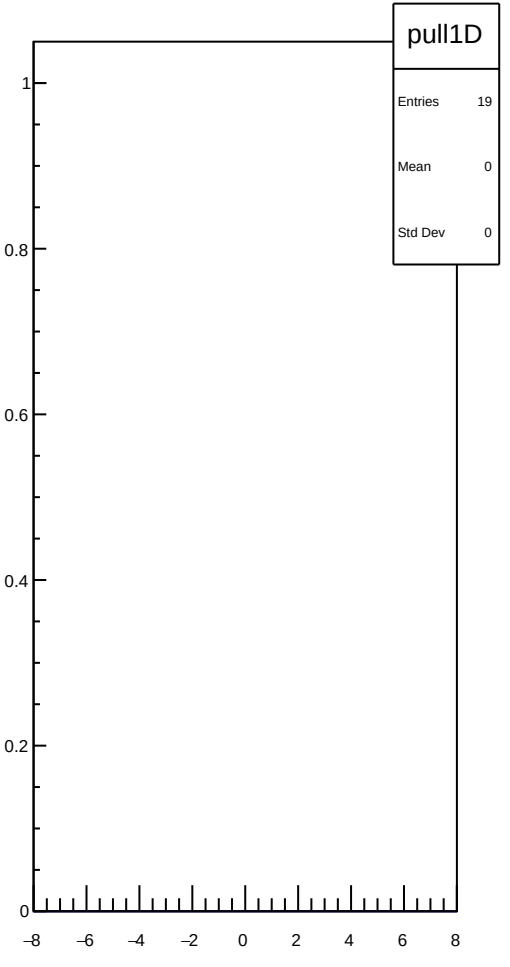

MQ171LM_mean vs run
×10⁻³
χ² / ndf 5.718e−05 / 18
p0 0.009375 ± 2.294e−16
0000012
0000001
0000007
0000005
0000002
9.375
9999998
9999995
9999993
9999999
9999988
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 9.5
Std Dev 5.477
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
−0.0014
−0.0016
−0.0018
pull1D
Entries 19
Mean −0.001735
Std Dev2.058e−11
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

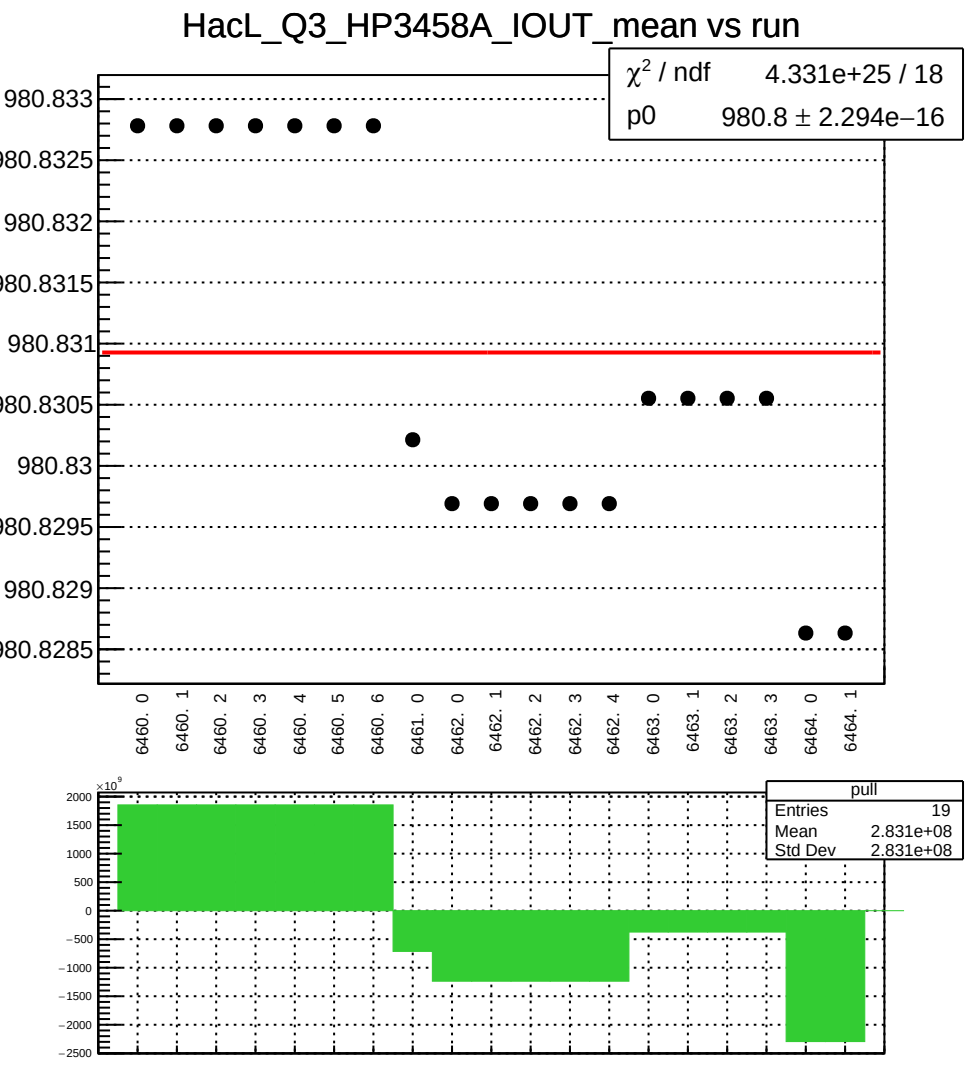

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 6.455e+24 / 18
p0 931.9 ± 2.294e−16
931.8675
931.867
931.8665
931.866
931.8655
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

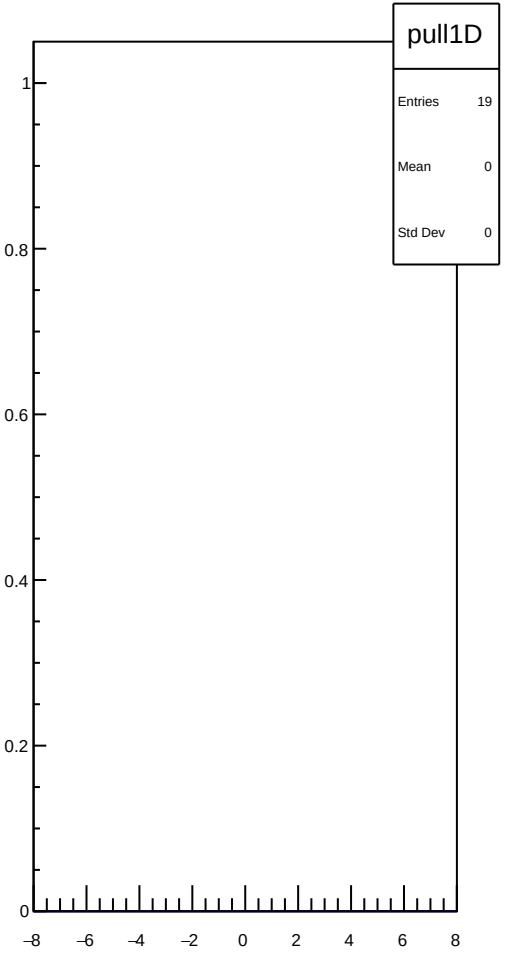

×10⁹
1400
1200
1000
800
600
400
200
0
−200
−400
−600
pull
Entries 19
Mean −8.729e+08
Std Dev 8.729e+08

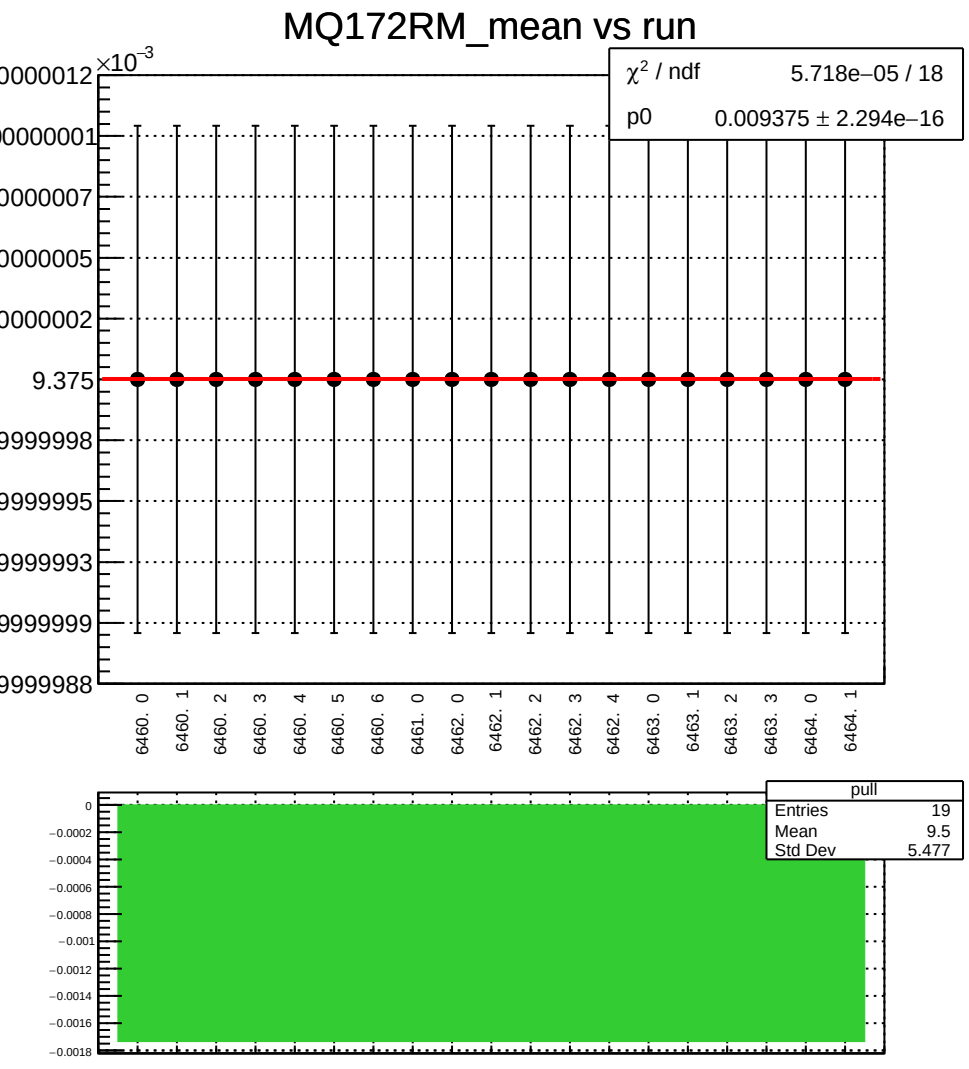

pull1D
Entries 19
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

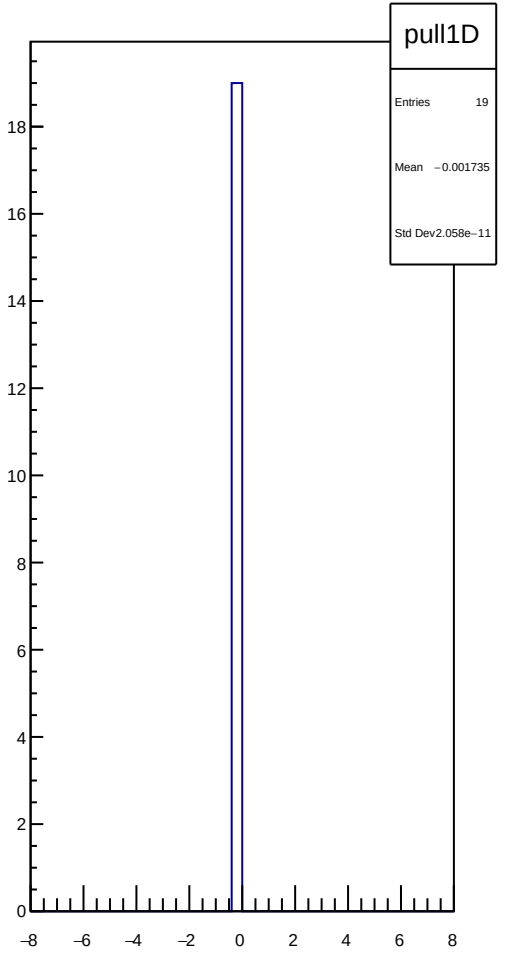

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 2.206e+27 / 18
p0 741.5 ± 2.294e−16
741.55
741.545
741.54
741.535
741.53
741.525
741.52
741.515
741.51
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
×10¹²
5
0
−5
−10
−15
−20
−25
−30
pull
Entries 19
Mean −7.334e+08
Std Dev 7.334e+08

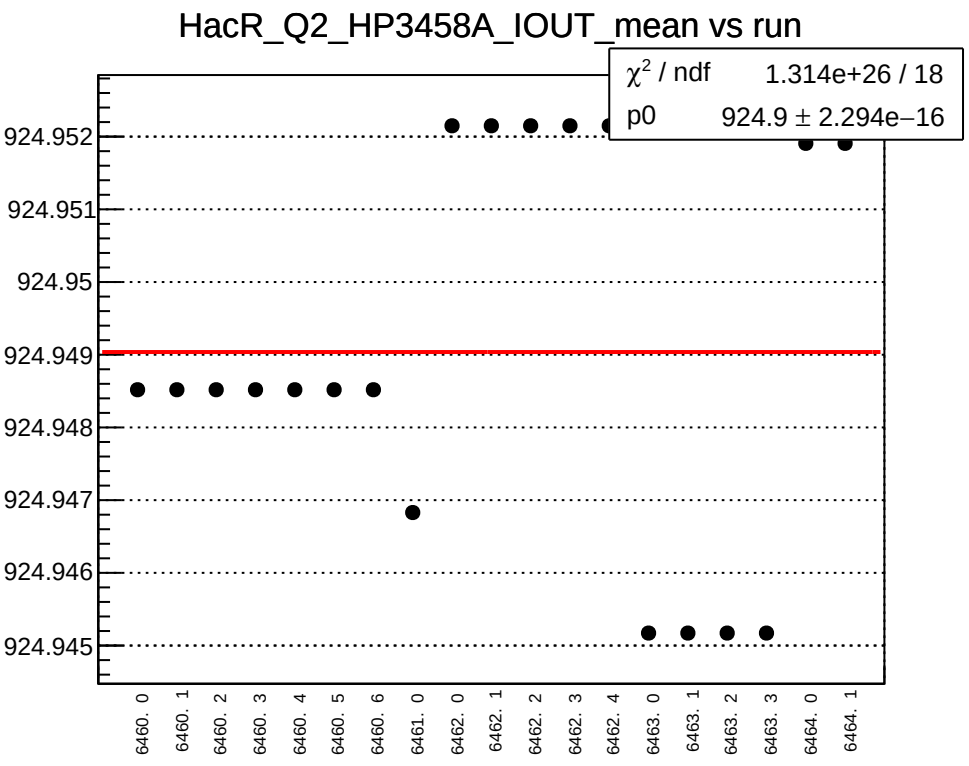

pull1D
Entries 19
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

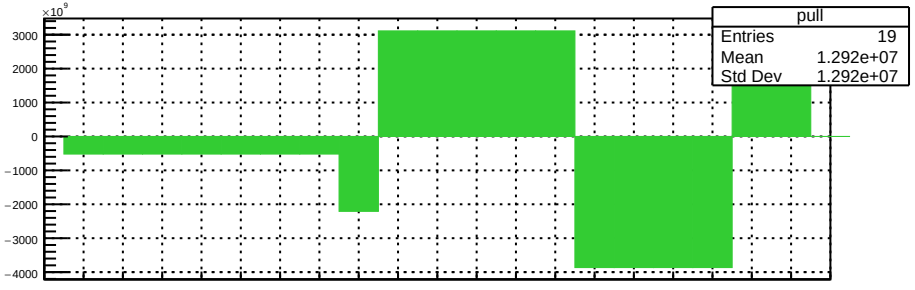

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 4.331e+25 / 18
p0 980.8 ± 2.294e−16
980.833
980.8325
980.832
980.8315
980.831
980.8305
980.83
980.8295
980.829
980.8285
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
×10⁹
2000
1500
1000
500
0
−500
−1000
−1500
−2000
−2500
pull
Entries 19
Mean 2.831e+08
Std Dev 2.831e+08

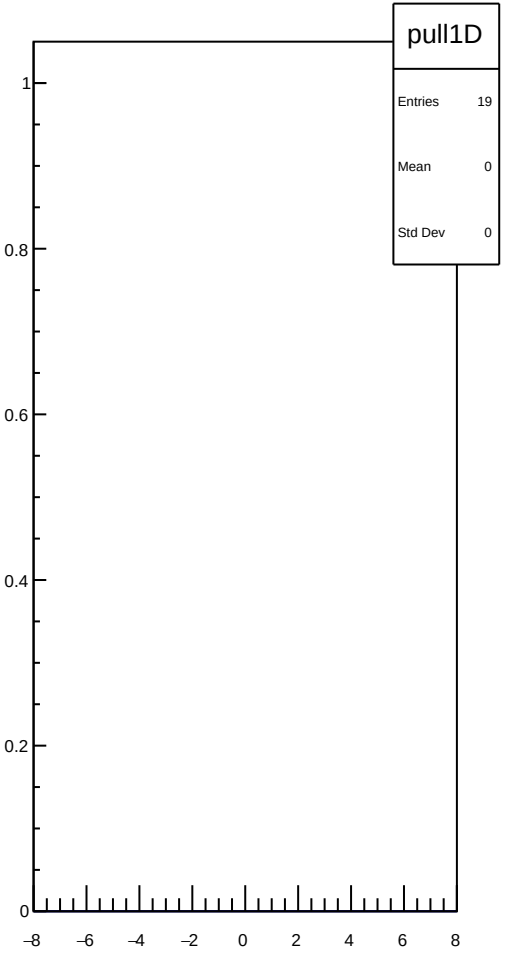

pull1D
Entries 19
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

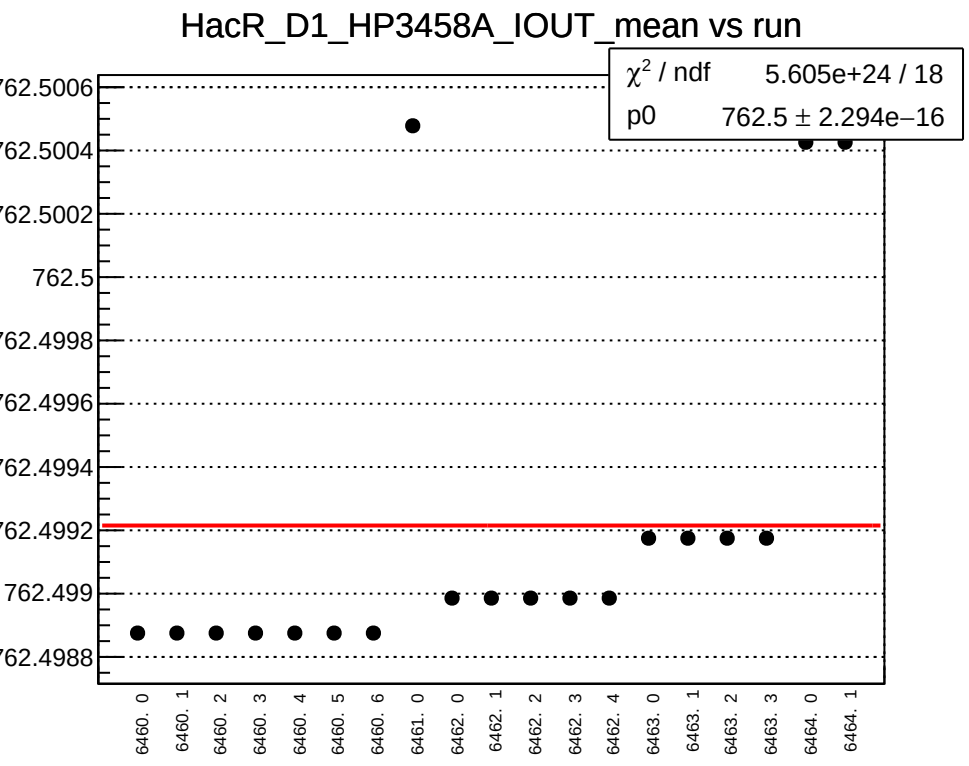

MQ172RM_mean vs run
×10⁻³
χ² / ndf 5.718e−05 / 18
p0 0.009375 ± 2.294e−16
0000012
0000001
0000007
0000005
0000002
9.375
9999998
9999995
9999993
9999999
9999988
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 9.5
Std Dev 5.477
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
−0.0014
−0.0016
−0.0018

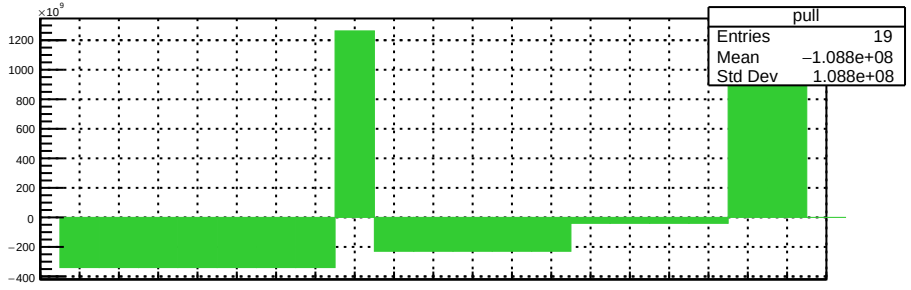

pull1D
Entries 19
Mean −0.001735
Std Dev2.058e−11
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

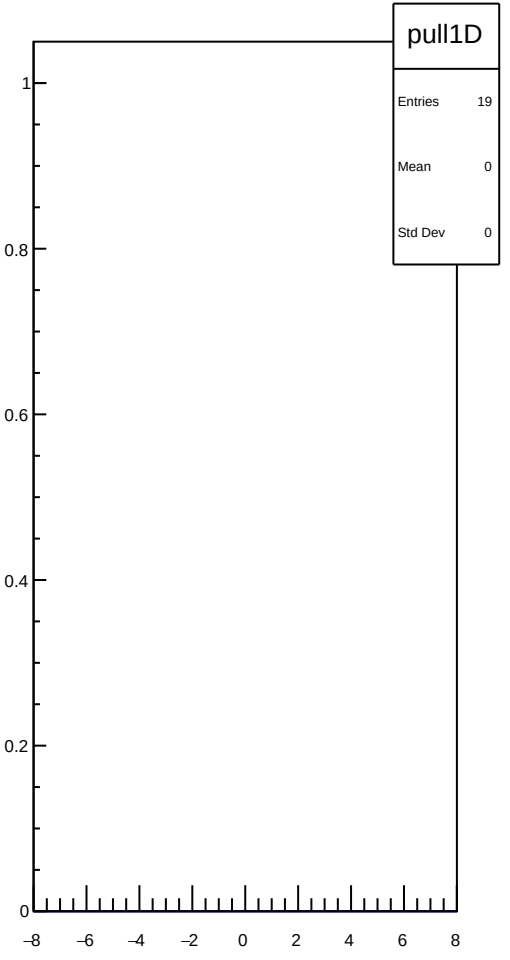

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 1.314e+26 / 18
p0 924.9 ± 2.294e−16
924.952
924.951
924.95
924.949
924.948
924.947
924.946
924.945
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

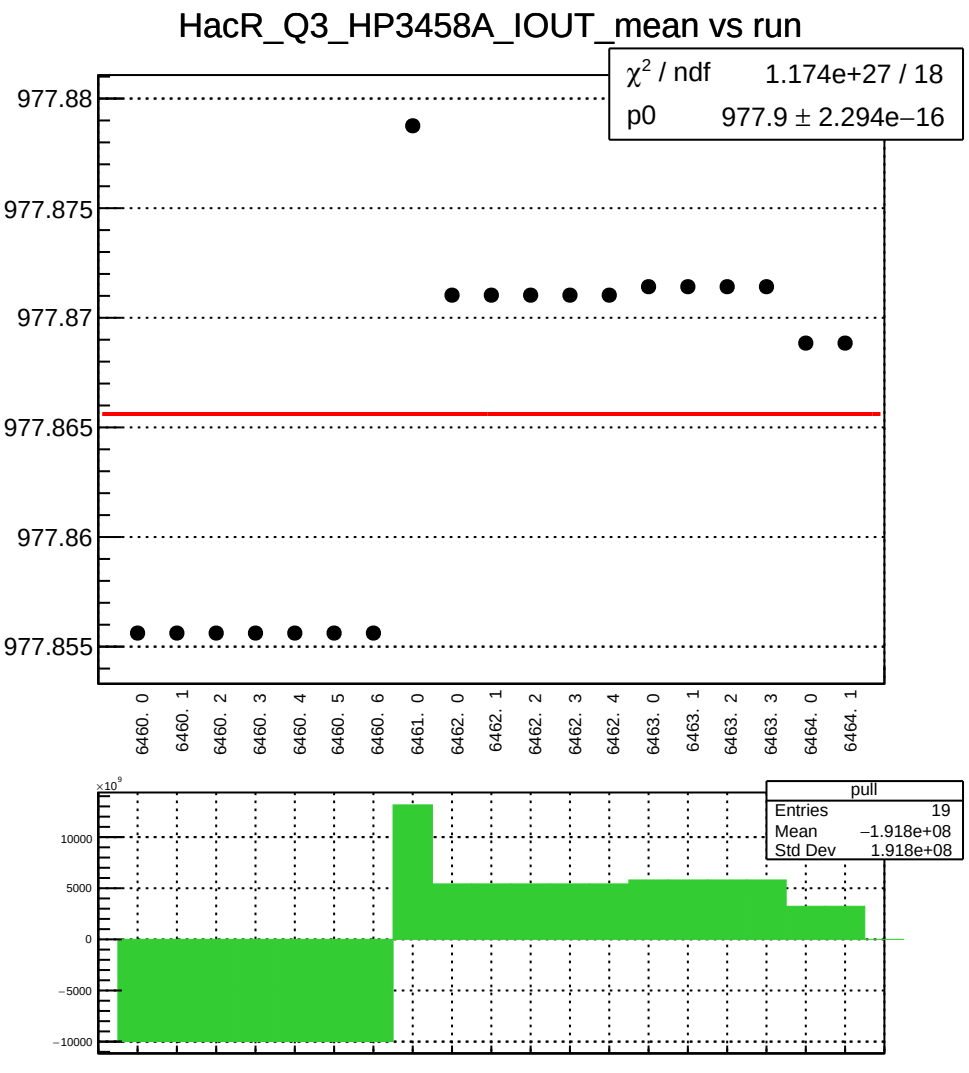

×10⁹
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 19
Mean 1.292e+07
Std Dev 1.292e+07

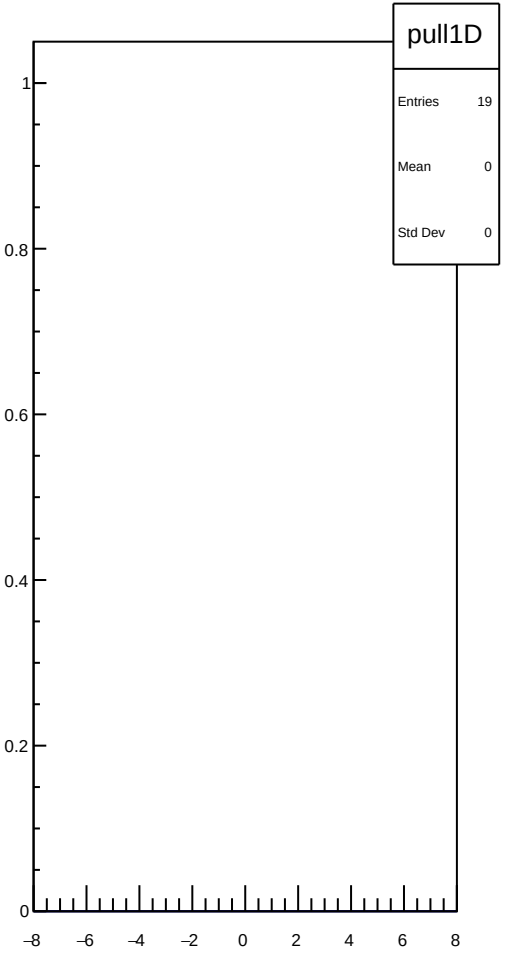

pull1D
Entries 19
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

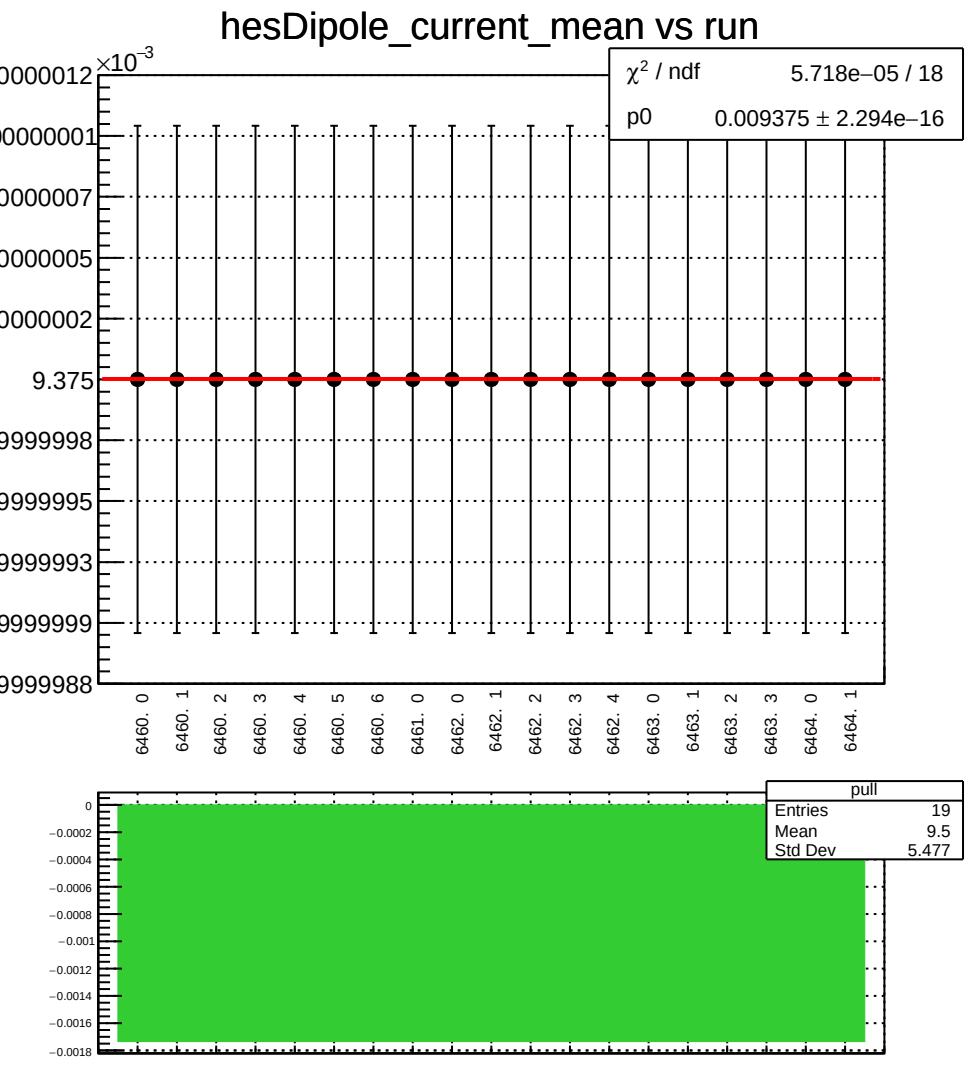

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 5.605e+24 / 18
p0 762.5 ± 2.294e−16
762.5006
762.5004
762.5002
762.5
762.4998
762.4996
762.4994
762.4992
762.499
762.4988
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

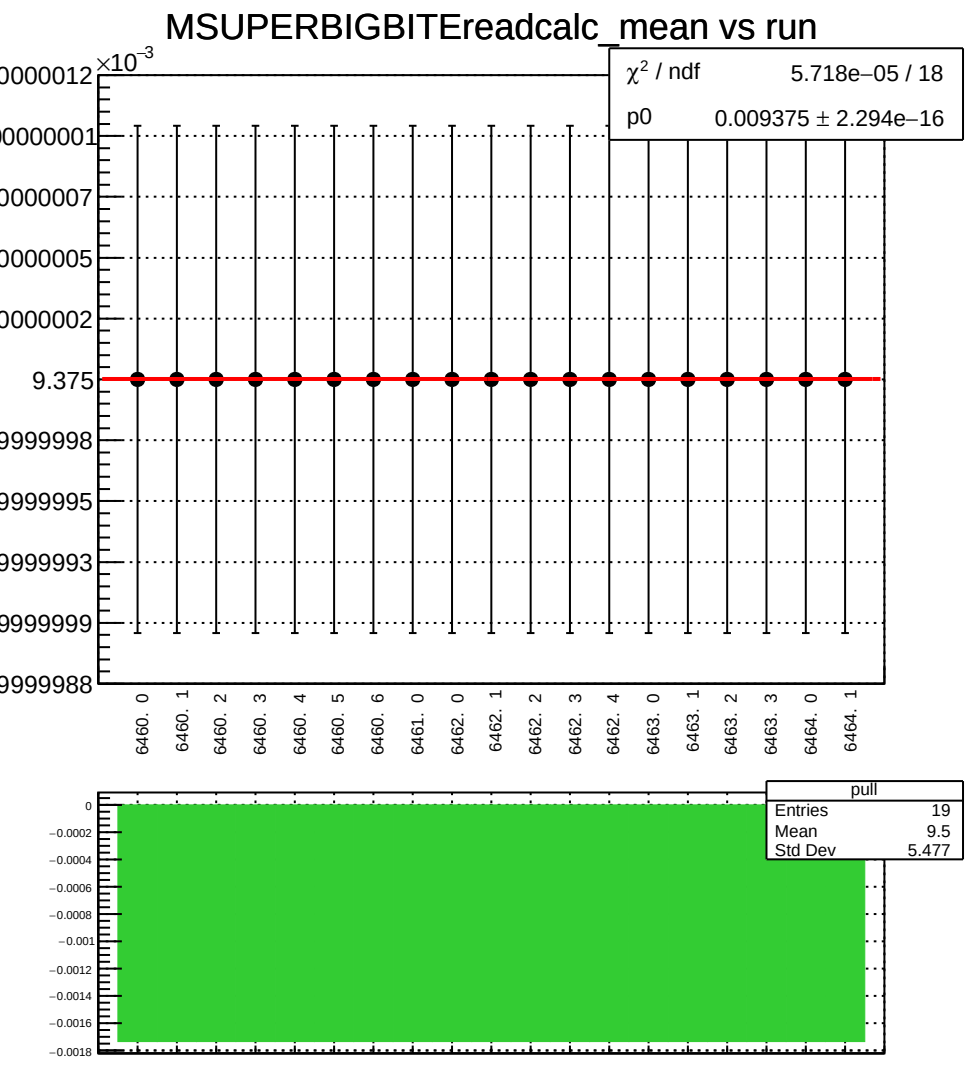

×10⁹
1200
1000
800
600
400
200
0
−200
−400
pull
Entries 19
Mean −1.088e+08
Std Dev 1.088e+08

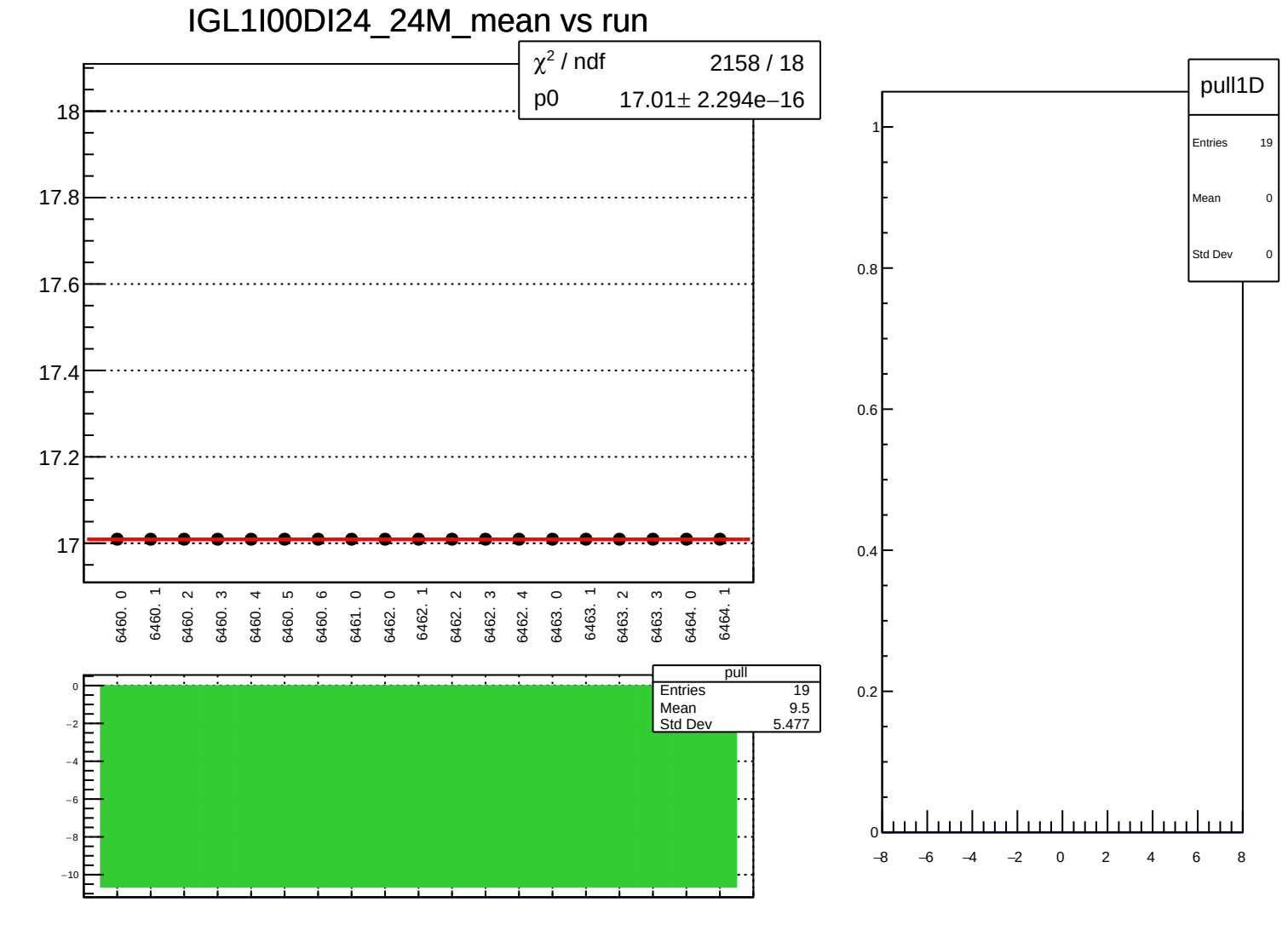

pull1D
Entries 19
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

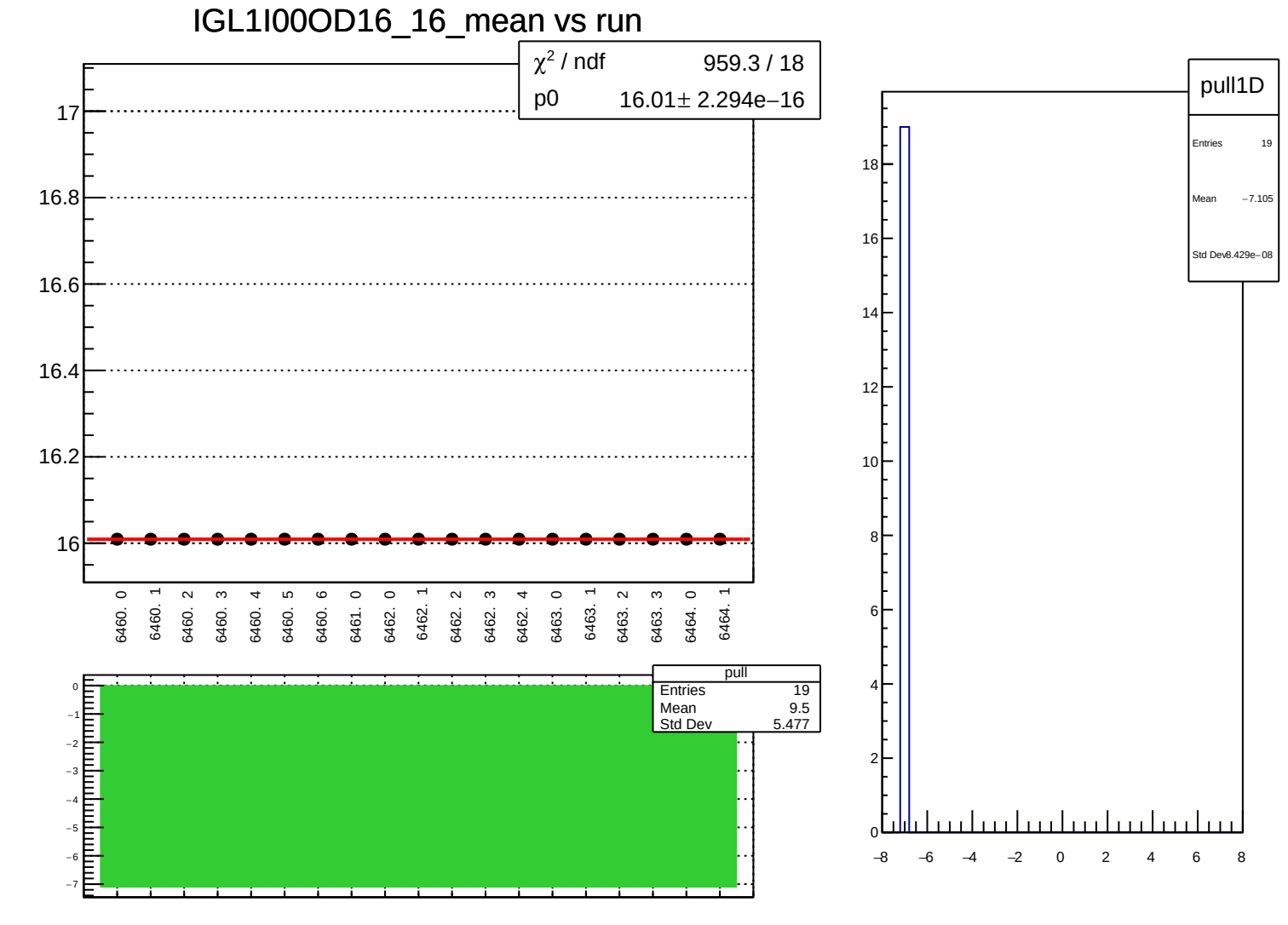

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 1.174e+27 / 18
p0 977.9 ± 2.294e−16
977.88
977.875
977.87
977.865
977.86
977.855
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
×10⁹
10000
5000
0
−5000
−10000
pull
Entries 19
Mean −1.918e+08
Std Dev 1.918e+08

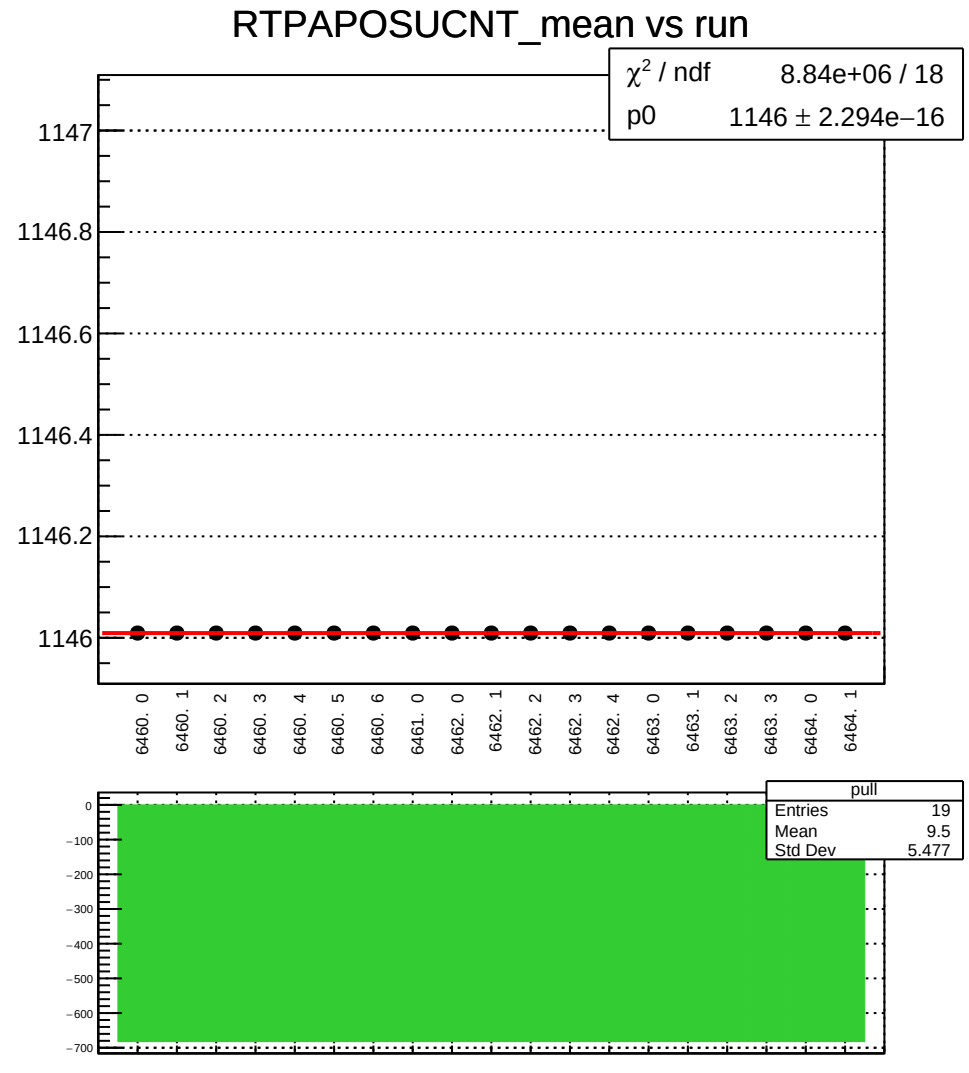

pull1D
Entries 19
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

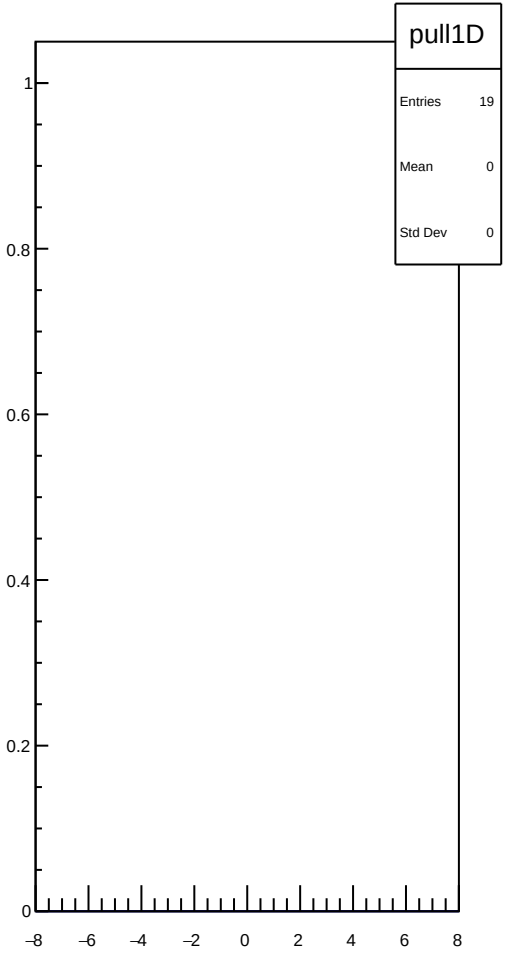

hesDipole_current_mean vs run
χ² / ndf 5.718e−05 / 18
p0 0.009375 ± 2.294e−16
×10⁻³
0000012
0000001
0000007
0000005
0000002
9.375
9999998
9999995
9999993
9999999
9999988
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 9.5
Std Dev 5.477
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
−0.0014
−0.0016
−0.0018
pull1D
Entries 19
Mean −0.001735
Std Dev2.058e−11
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

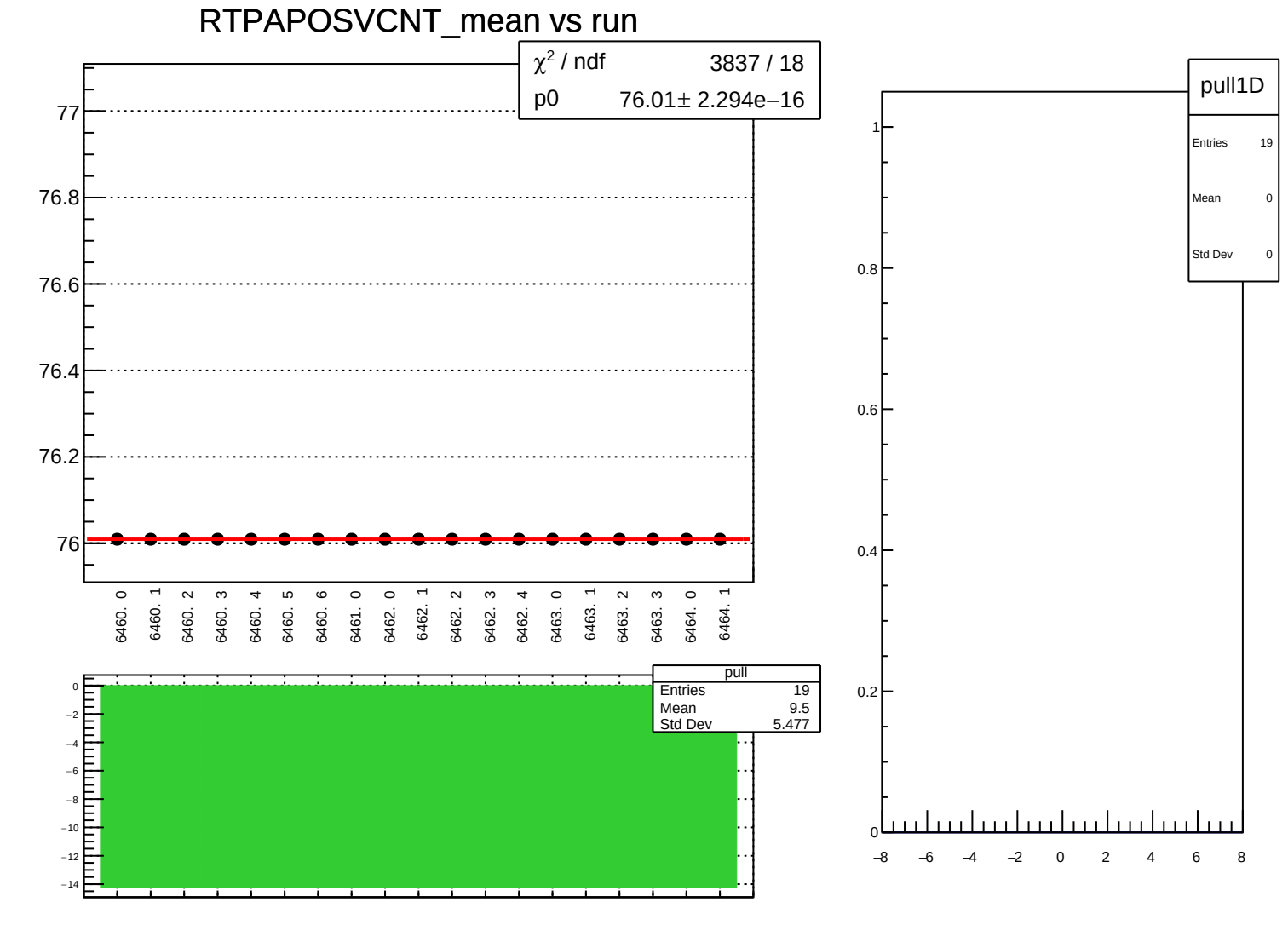

MSUPERBIGBITEreadcalc_mean vs run
χ² / ndf 5.718e−05 / 18
p0 0.009375 ± 2.294e−16
×10⁻³
0000012
0000001
0000007
0000005
0000002
9.375
9999998
9999995
9999993
9999999
9999988
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 9.5
Std Dev 5.477
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
−0.0014
−0.0016
−0.0018
pull1D
Entries 19
Mean −0.001735
Std Dev2.058e−11
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


IGL1I00DI24_24M_mean vs run
χ² / ndf 2158 / 18
p0 17.01± 2.294e−16
18
17.8
17.6
17.4
17.2
17
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 9.5
Std Dev 5.477
0
−2
−4
−6
−8
−10
pull1D
Entries 19
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


IGL1I00OD16_16_mean vs run
χ² / ndf 959.3 / 18
p0 16.01± 2.294e−16
17
16.8
16.6
16.4
16.2
16
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 9.5
Std Dev 5.477
0
−1
−2
−3
−4
−5
−6
−7
pull1D
Entries 19
Mean −7.105
Std Dev 8.429e−08
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


RTPAPOSUCNT_mean vs run
χ² / ndf 8.84e+06 / 18
p0 1146 ± 2.294e−16
1147
1146.8
1146.6
1146.4
1146.2
1146
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 9.5
Std Dev 5.477
0
−100
−200
−300
−400
−500
−600
−700


pull1D
Entries 19
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPAPOSVCNT_mean vs run
χ² / ndf 3837 / 18
p0 76.01± 2.294e−16
77
76.8
76.6
76.4
76.2
76
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 19
Mean 9.5
Std Dev 5.477
0
−2
−4
−6
−8
−10
−12
−14
pull1D
Entries 19
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8