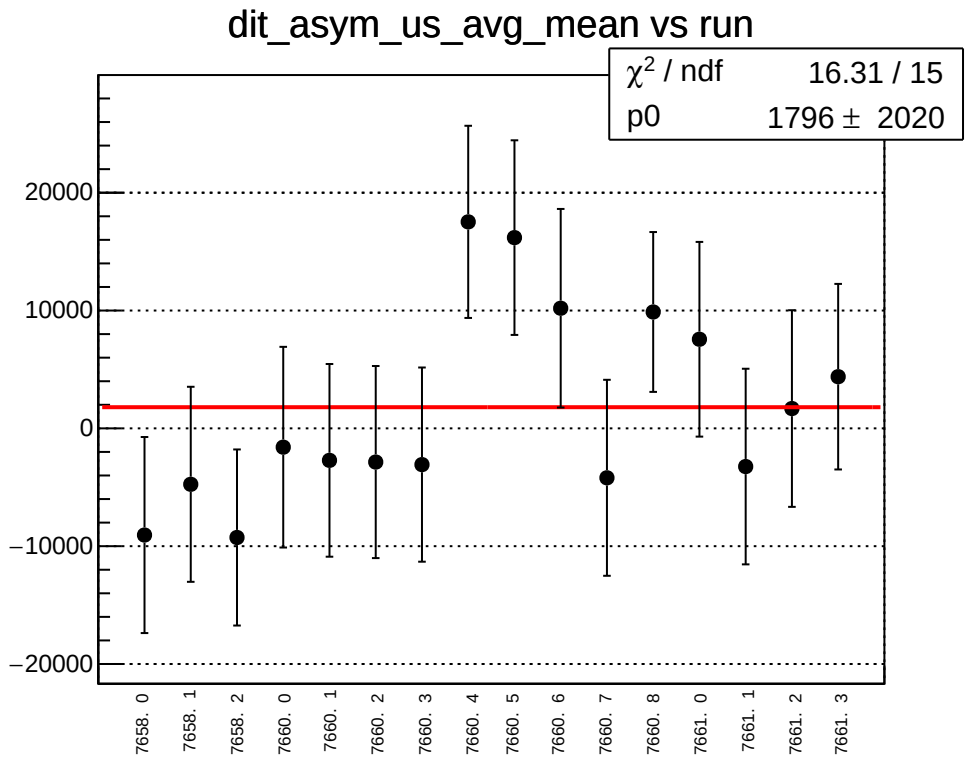
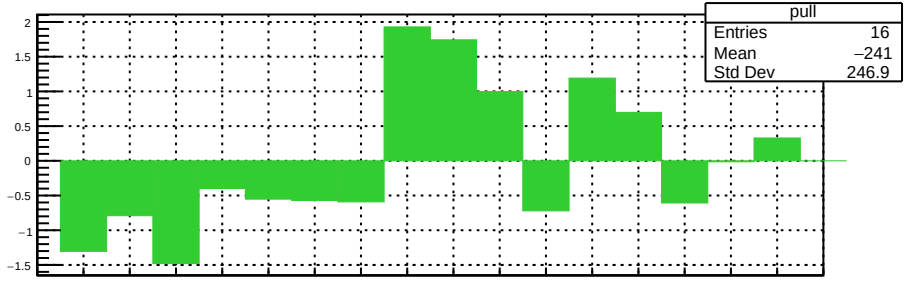
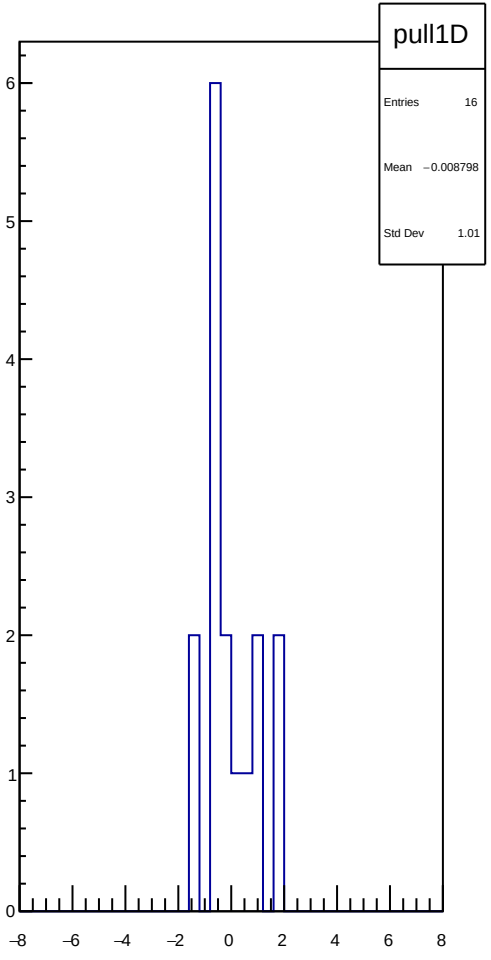
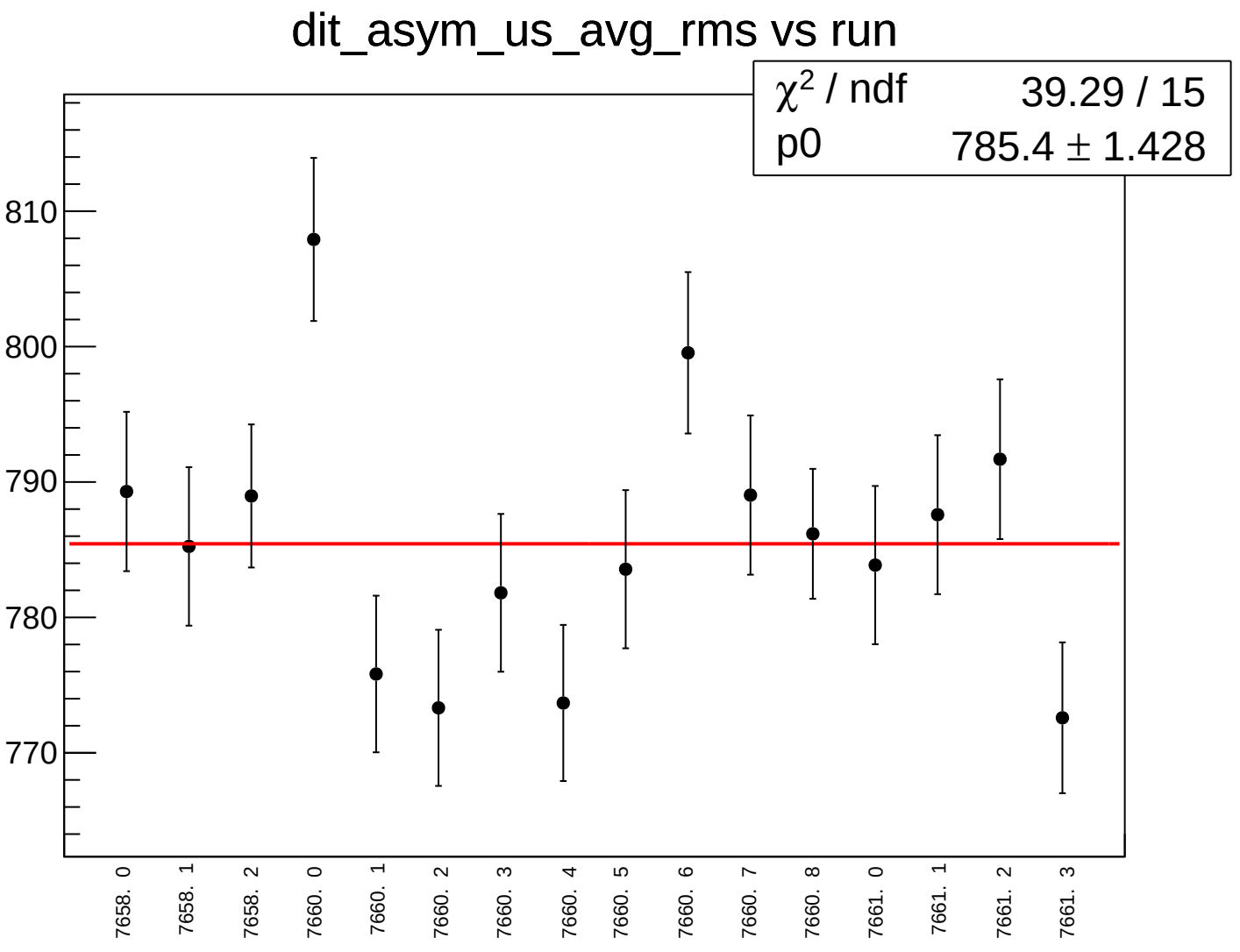
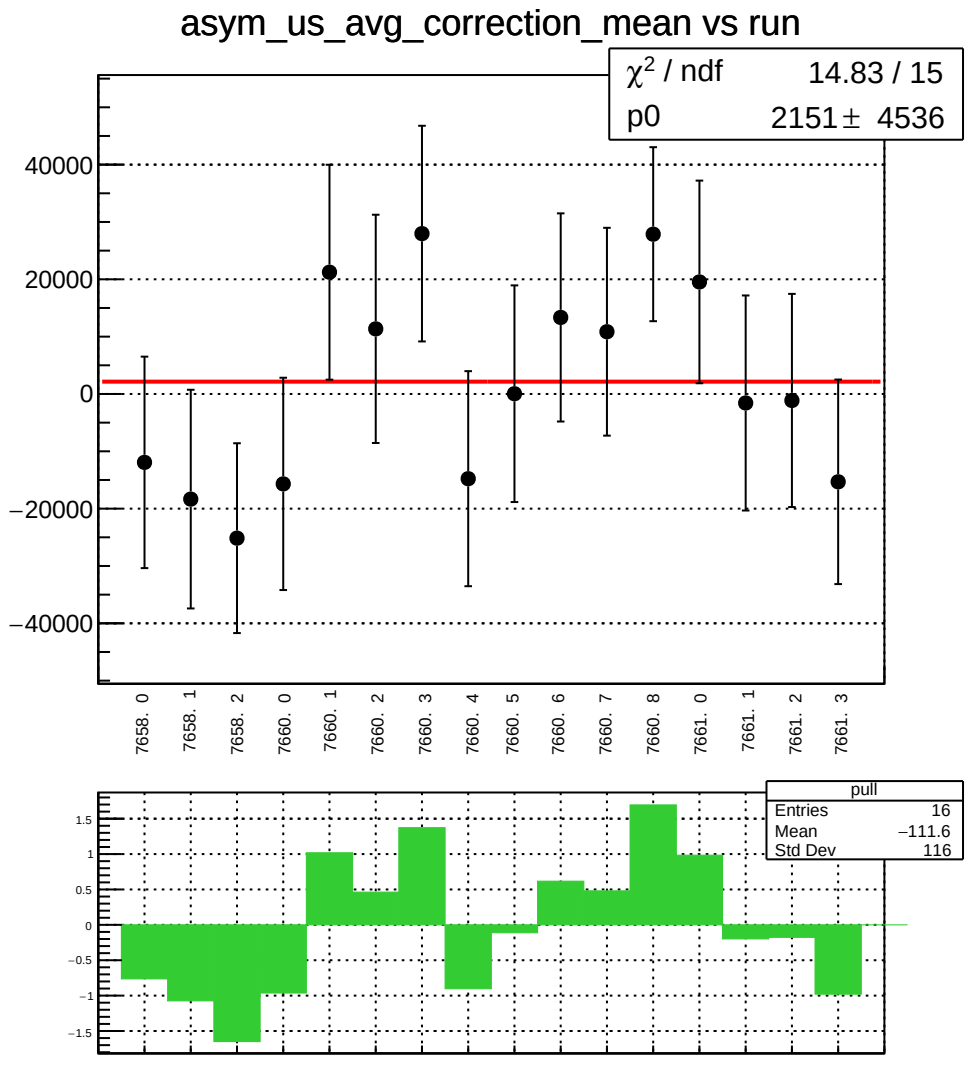
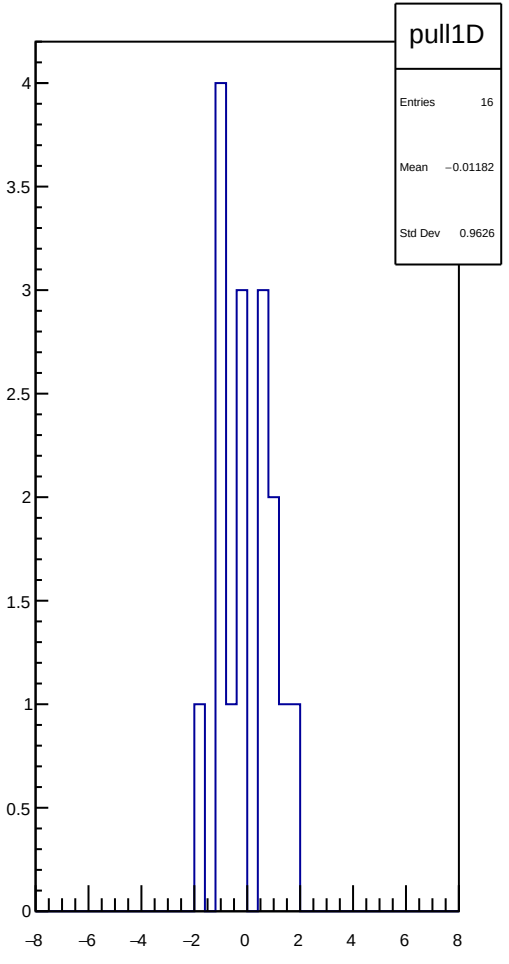

dit_asym_us_avg_mean vs run
χ² / ndf 16.31 / 15
p0 1796 ± 2020
20000
10000
0
−10000
−20000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

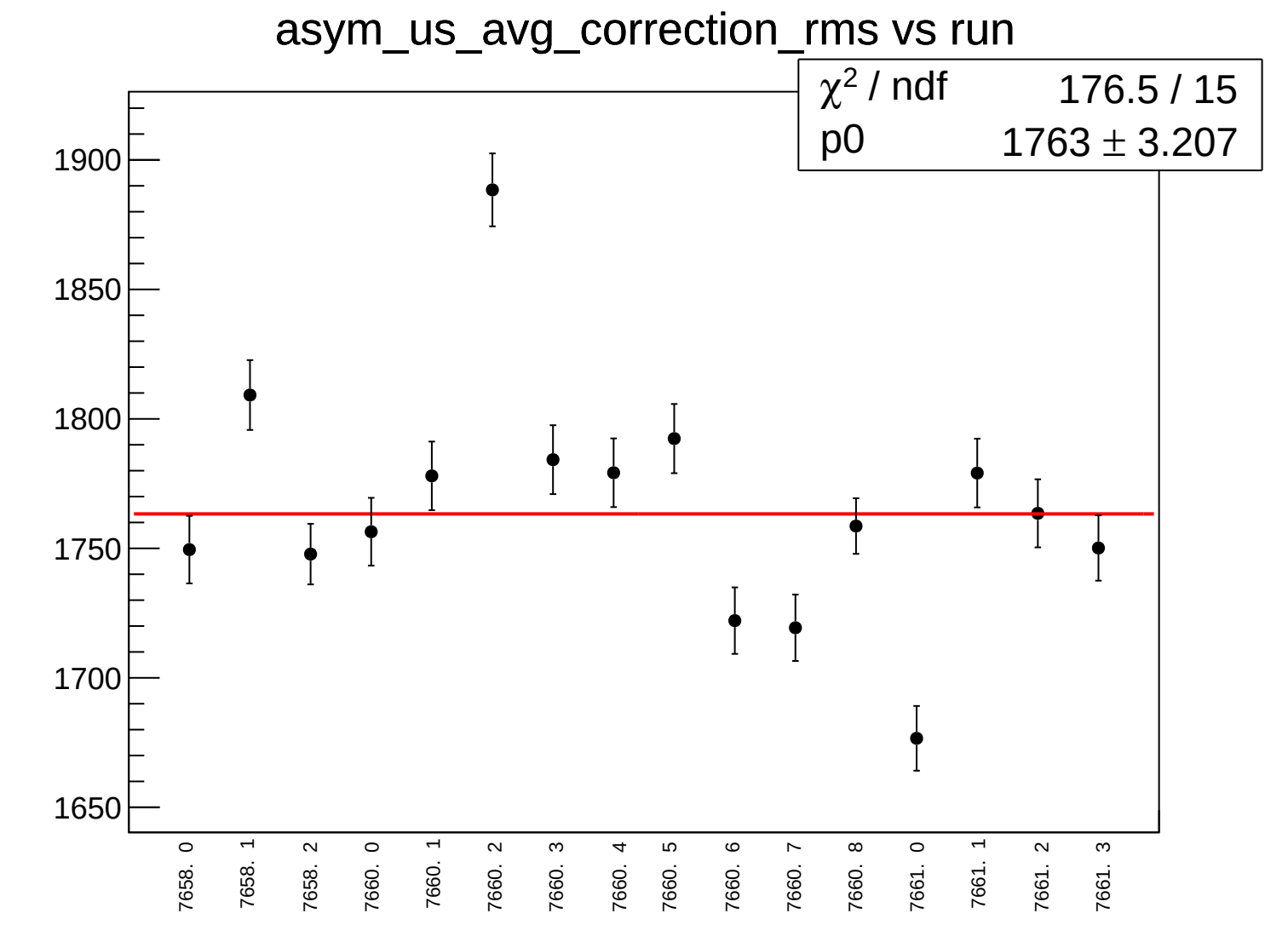

pull
Entries 16
Mean −241
Std Dev 246.9
2
1.5
1
0.5
0
−0.5
−1
−1.5

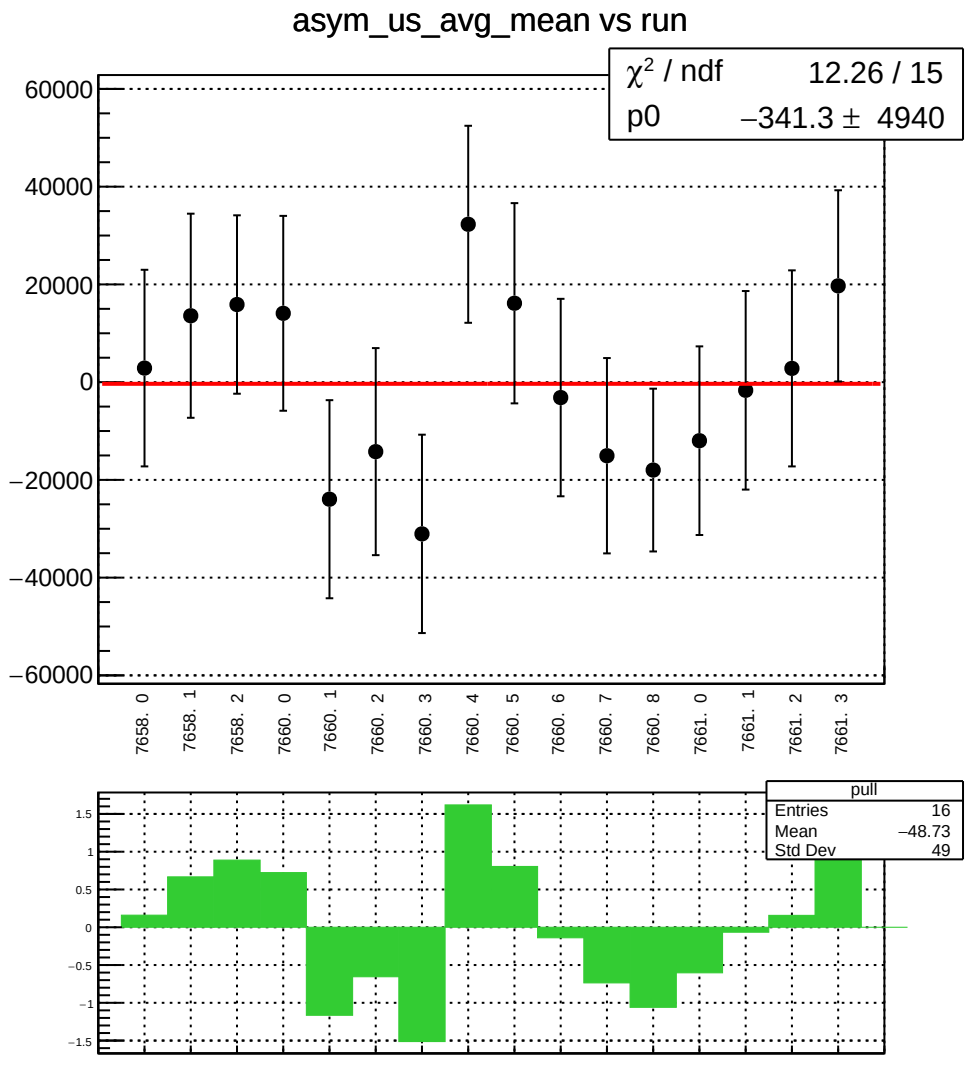

pull1D
Entries 16
Mean −0.008798
Std Dev 1.01
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

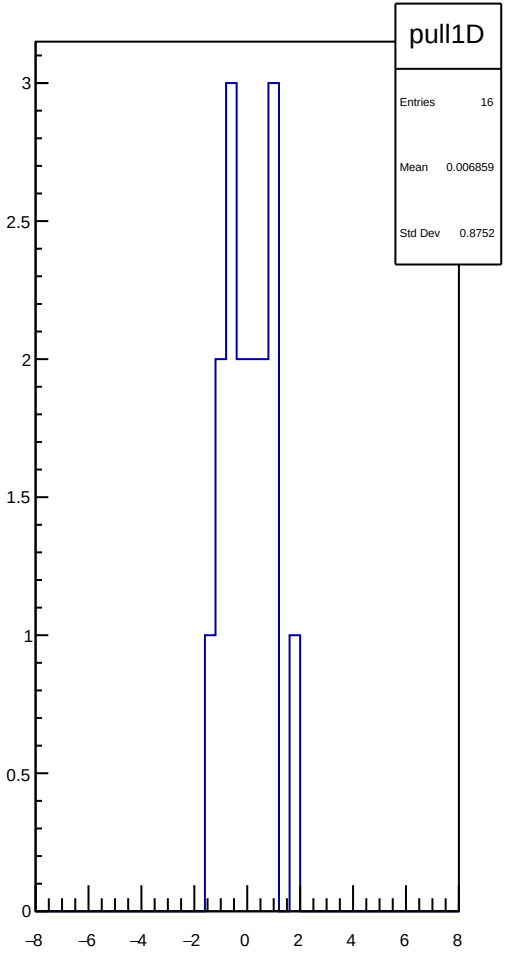

dit_asym_us_avg_rms vs run
χ² / ndf 39.29 / 15
p0 785.4 ± 1.428
810
800
790
780
770
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

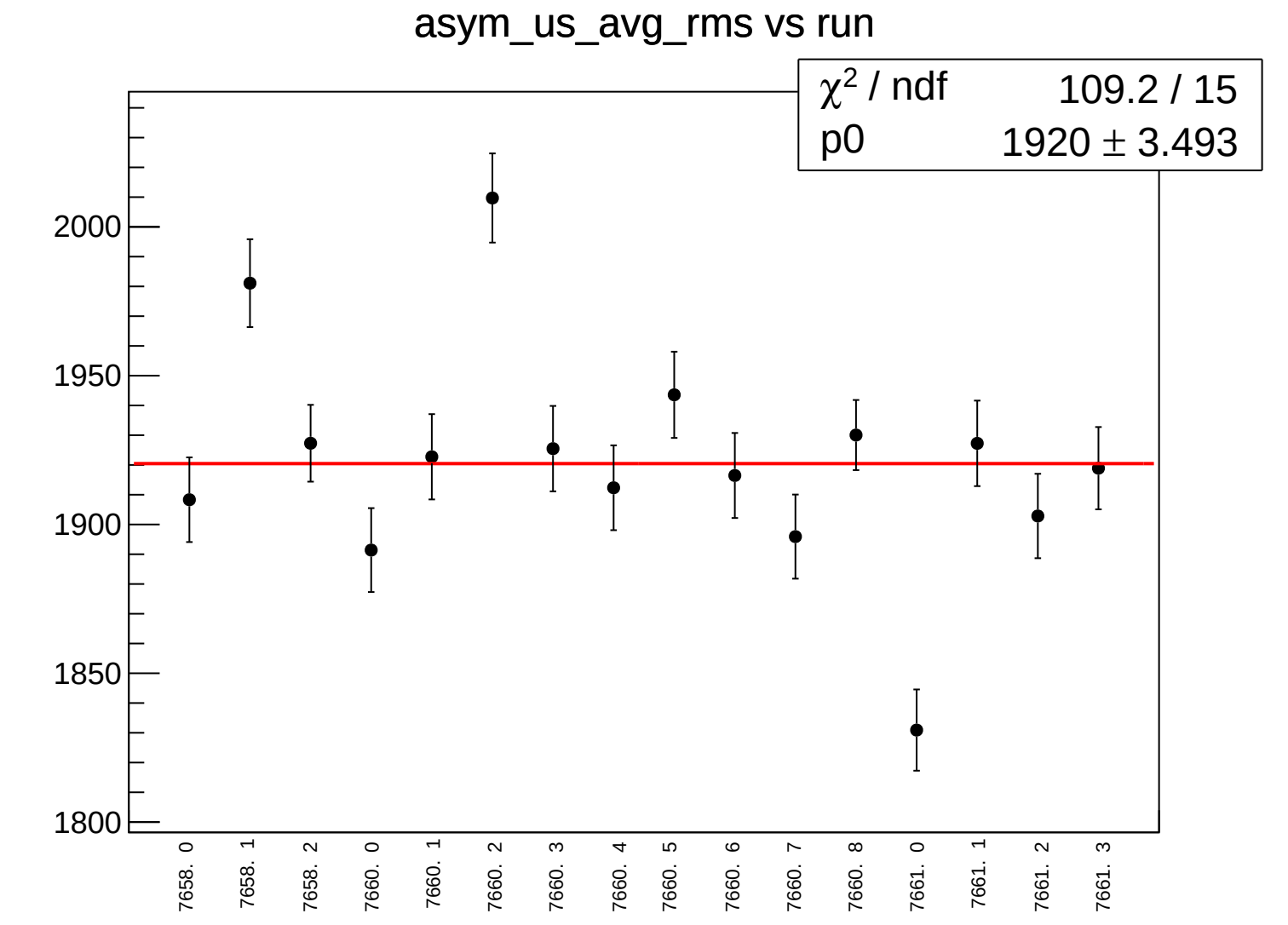

asym_us_avg_correction_mean vs run
χ² / ndf 14.83 / 15
p0 2151 ± 4536
40000
20000
0
−20000
−40000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −111.6
Std Dev 116
1.5
1
0.5
0
−0.5
−1
−1.5

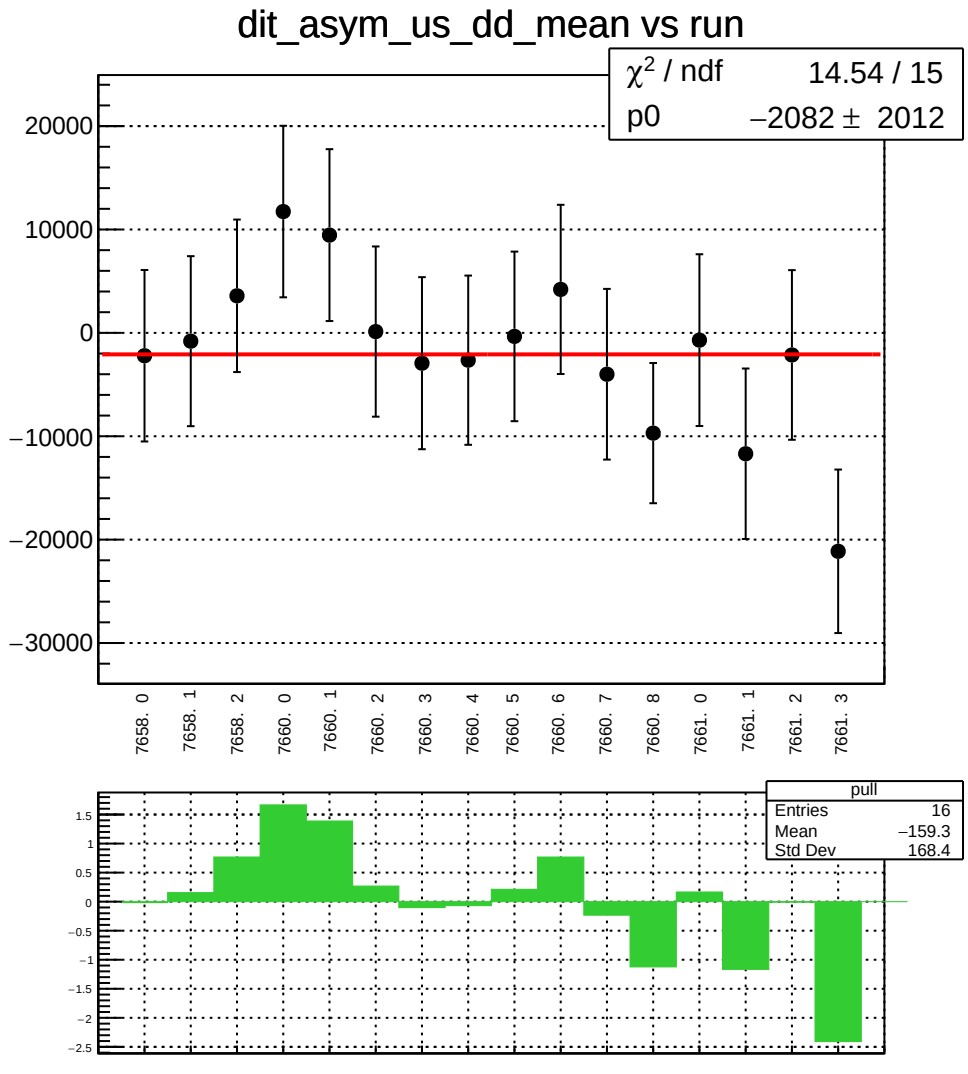

pull1D
Entries 16
Mean −0.01182
Std Dev 0.9626
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

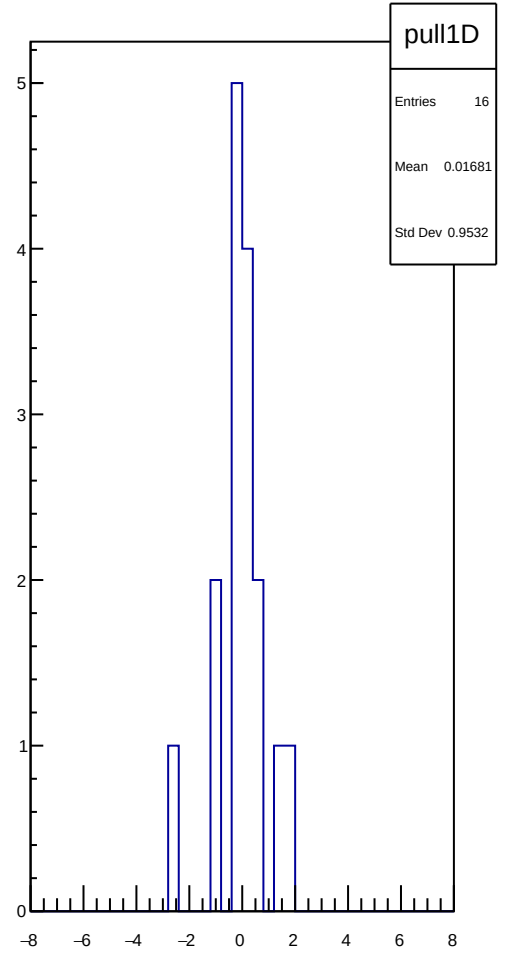

asym_us_avg_correction_rms vs run
χ² / ndf 176.5 / 15
p0 1763 ± 3.207
1900
1850
1800
1750
1700
1650
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

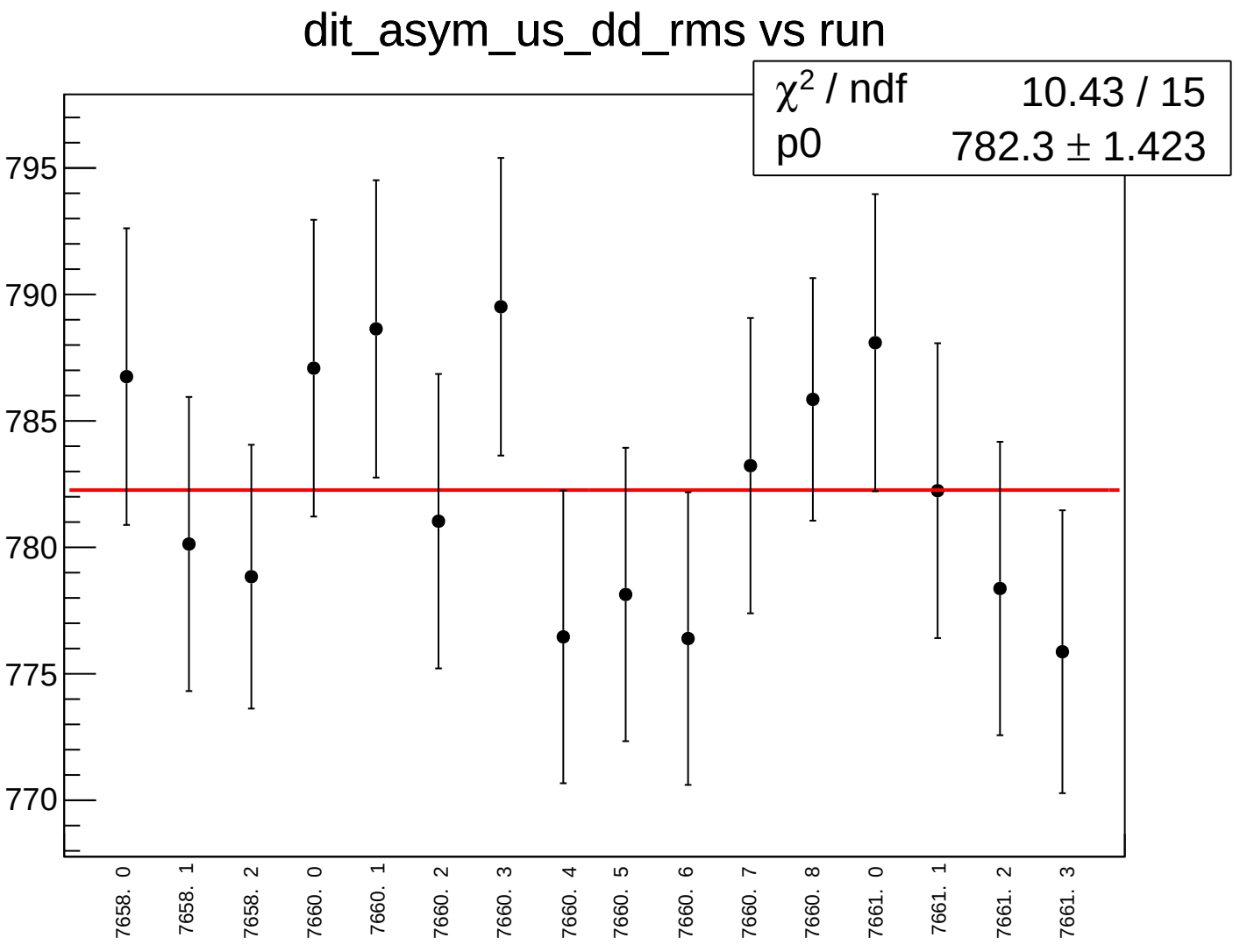

asym_us_avg_mean vs run
χ² / ndf 12.26 / 15
p0 −341.3 ± 4940
60000
40000
20000
0
−20000
−40000
−60000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −48.73
Std Dev 49
1.5
1
0.5
0
−0.5
−1
−1.5

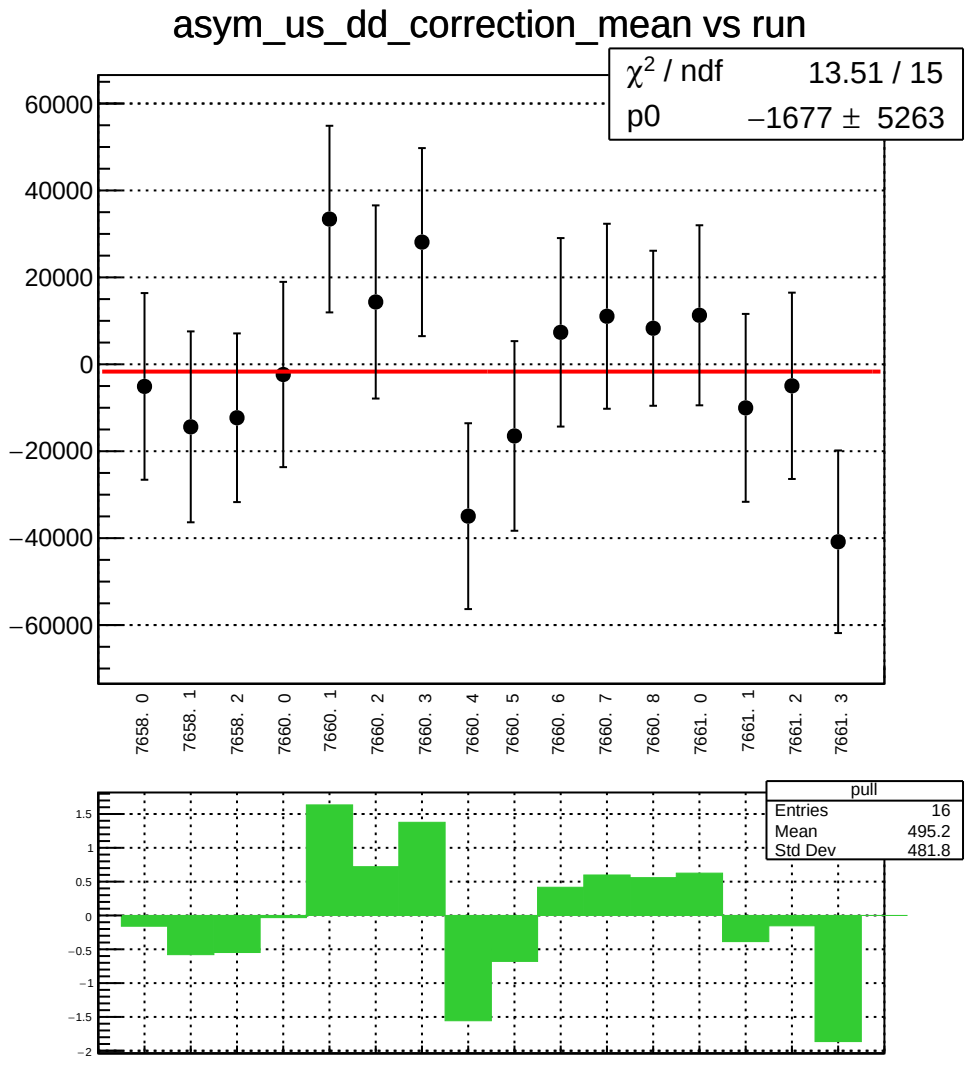

pull1D
Entries 16
Mean 0.006859
Std Dev 0.8752
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

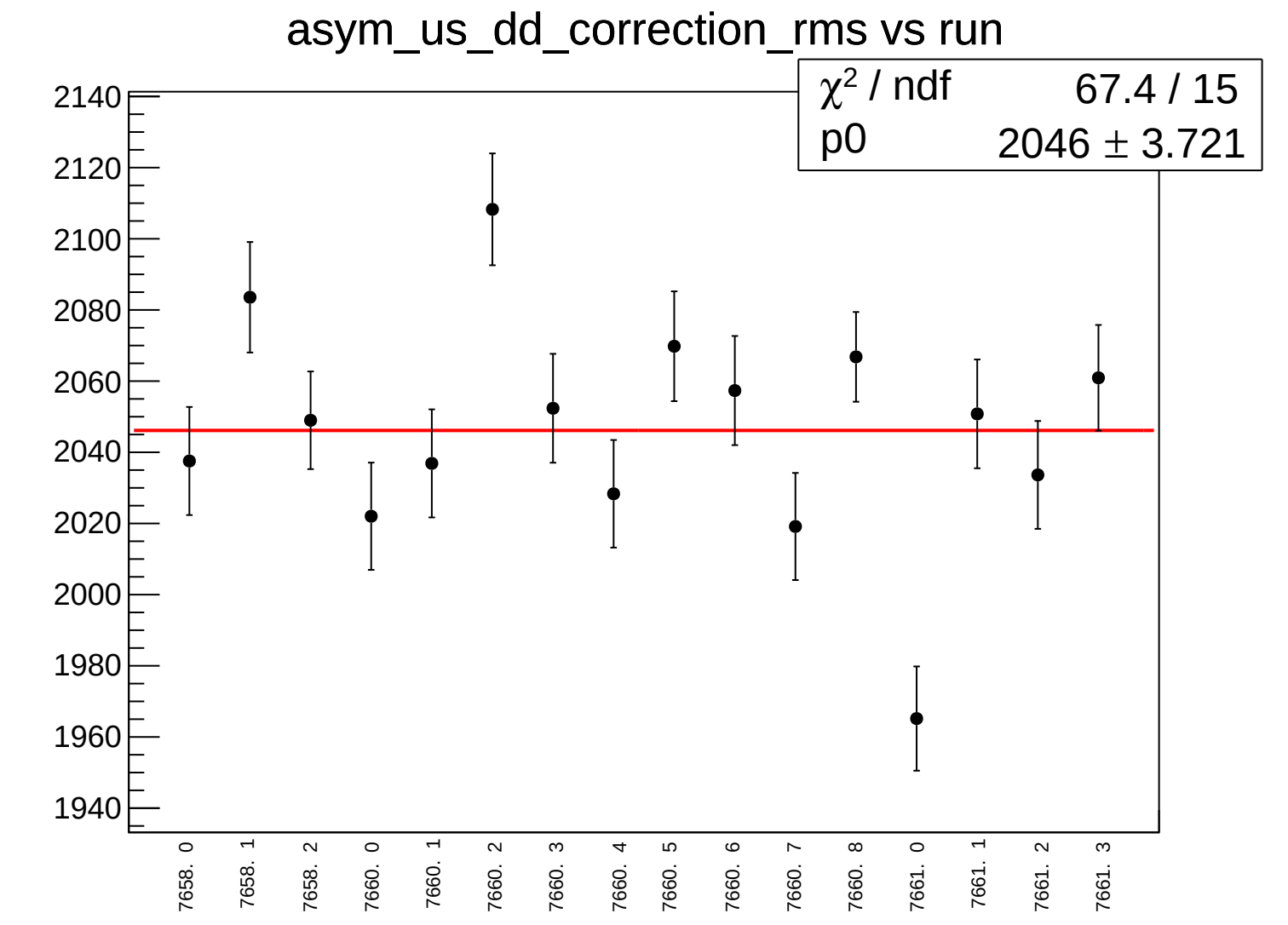

asym_us_avg_rms vs run
χ² / ndf 109.2 / 15
p0 1920 ± 3.493
2000
1950
1900
1850
1800
17658. 0
17658. 1
17658. 2
17660. 0
17660. 1
17660. 2
17660. 3
17660. 4
17660. 5
17660. 6
17660. 7
17660. 8
17661. 0
17661. 1
17661. 2
17661. 3

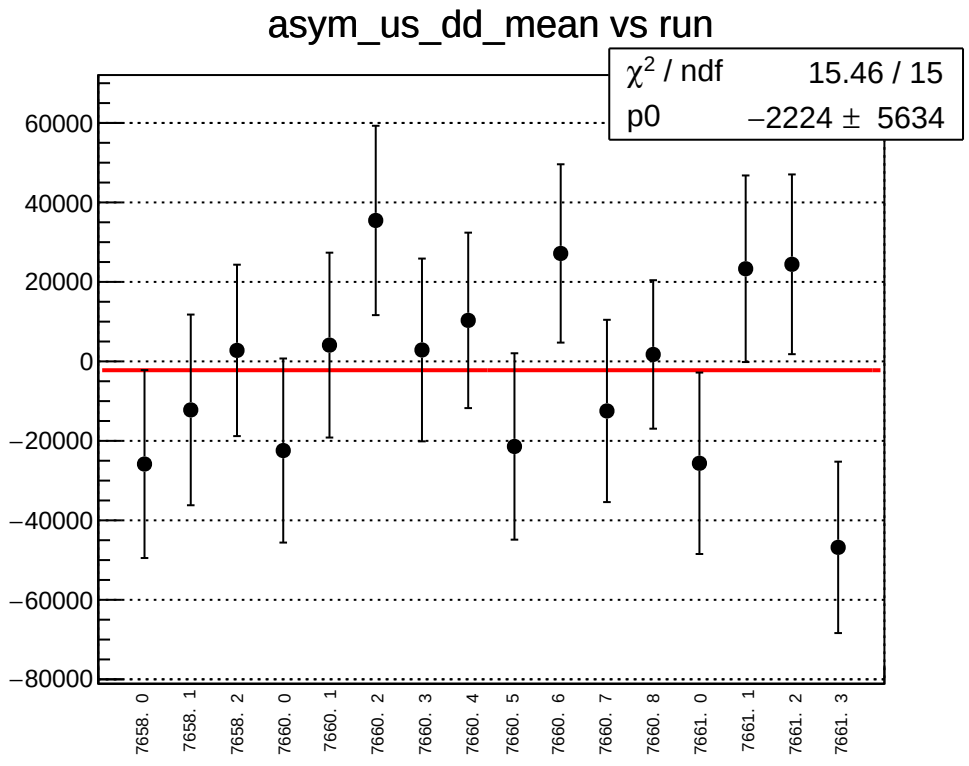

dit_asym_us_dd_mean vs run
χ² / ndf 14.54 / 15
p0 −2082 ± 2012
20000
10000
0
−10000
−20000
−30000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −159.3
Std Dev 168.4
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

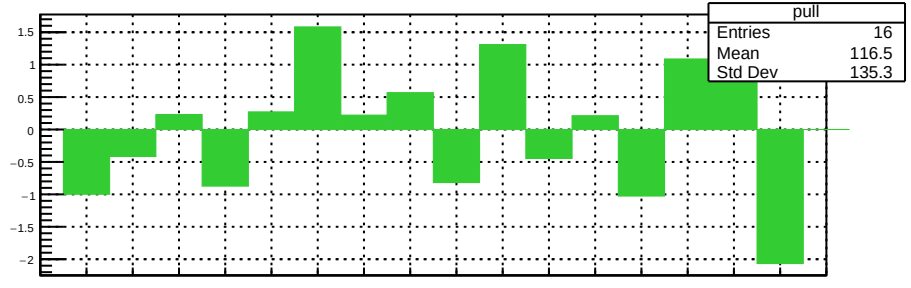

pull1D
Entries 16
Mean 0.01681
Std Dev 0.9532
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

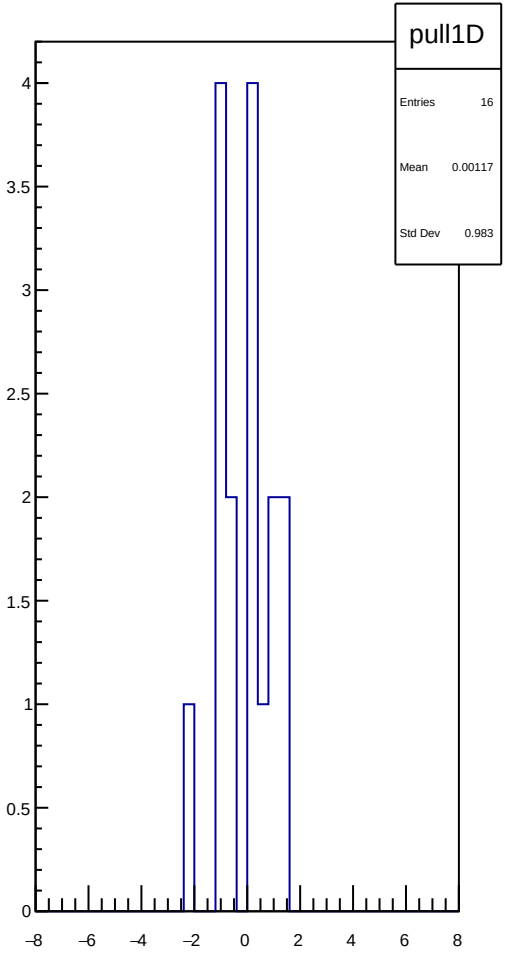

dit_asym_us_dd_rms vs run
χ² / ndf 10.43 / 15
p0 782.3 ± 1.423
795
790
785
780
775
770
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

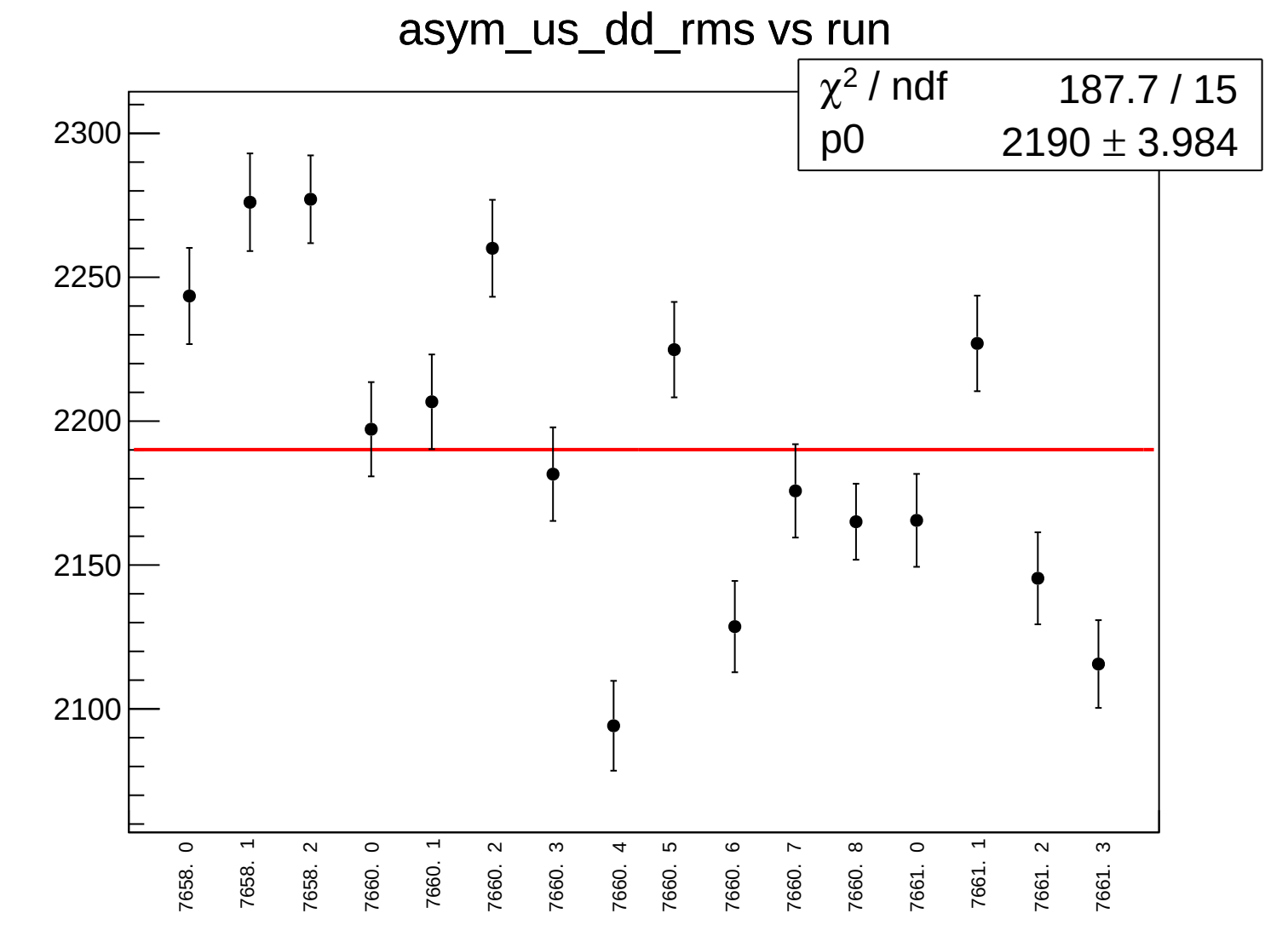

asym_us_dd_correction_mean vs run
χ² / ndf 13.51 / 15
p0 −1677 ± 5263
60000
40000
20000
0
−20000
−40000
−60000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 495.2
Std Dev 481.8
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 16
Mean −0.001443
Std Dev 0.9189
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

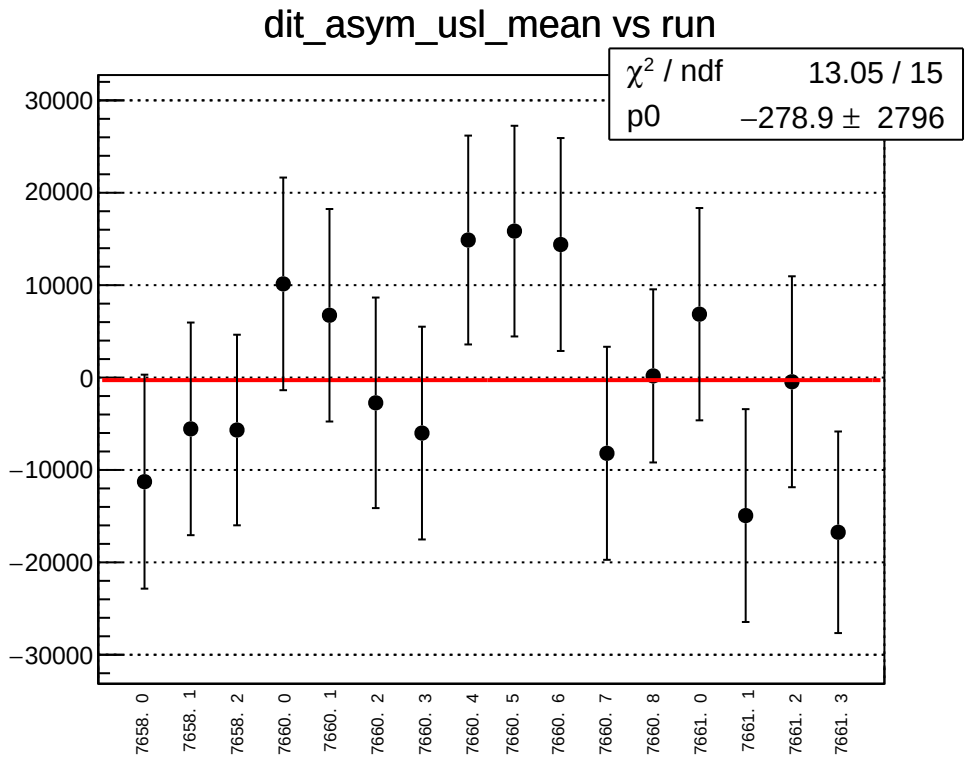

asym_us_dd_correction_rms vs run
χ² / ndf 67.4 / 15
p0 2046 ± 3.721
2140
2120
2100
2080
2060
2040
2020
2000
1980
1960
1940
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

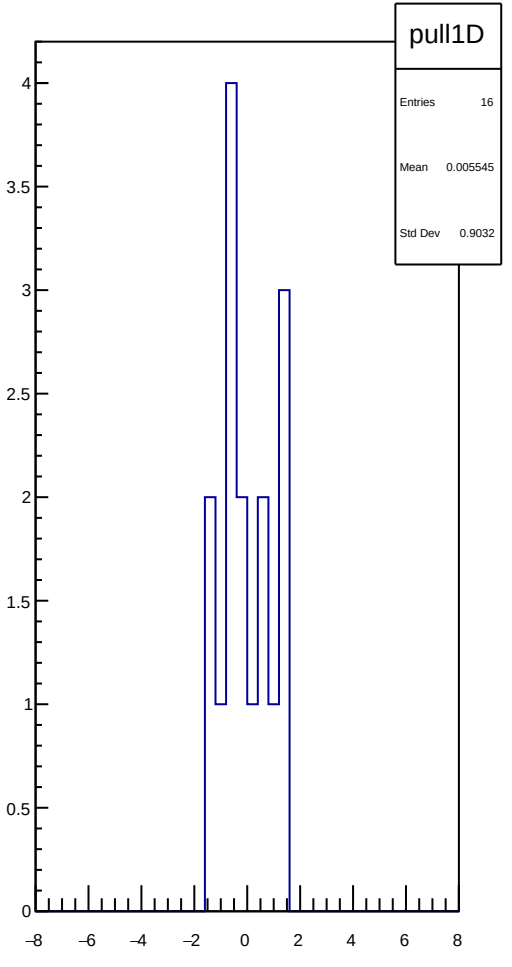

asym_us_dd_mean vs run
χ² / ndf 15.46 / 15
p0 −2224 ± 5634
60000
40000
20000
0
−20000
−40000
−60000
−80000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

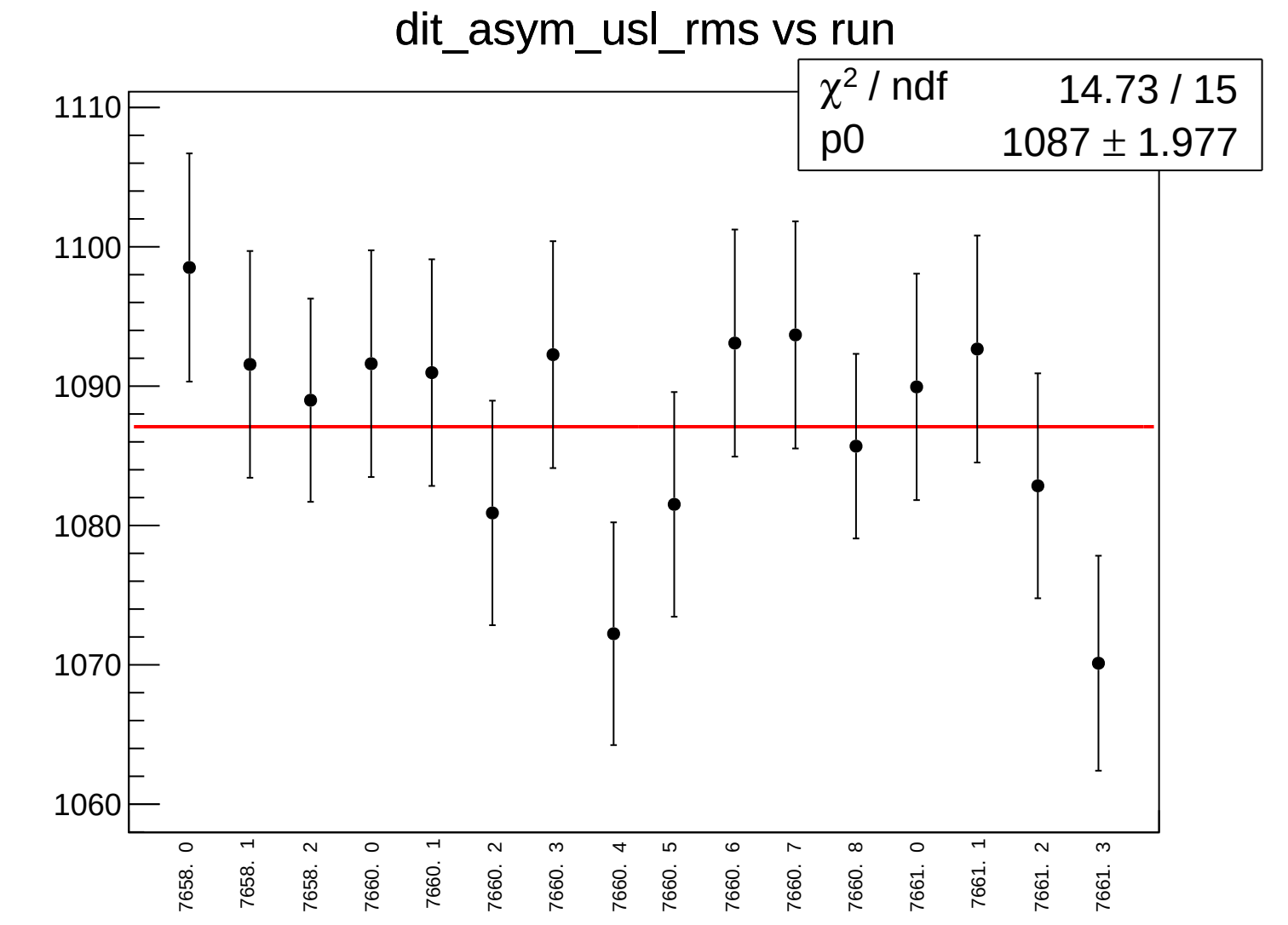

pull
Entries 16
Mean 116.5
Std Dev 135.3
1.5
1
0.5
0
−0.5
−1
−1.5
−2

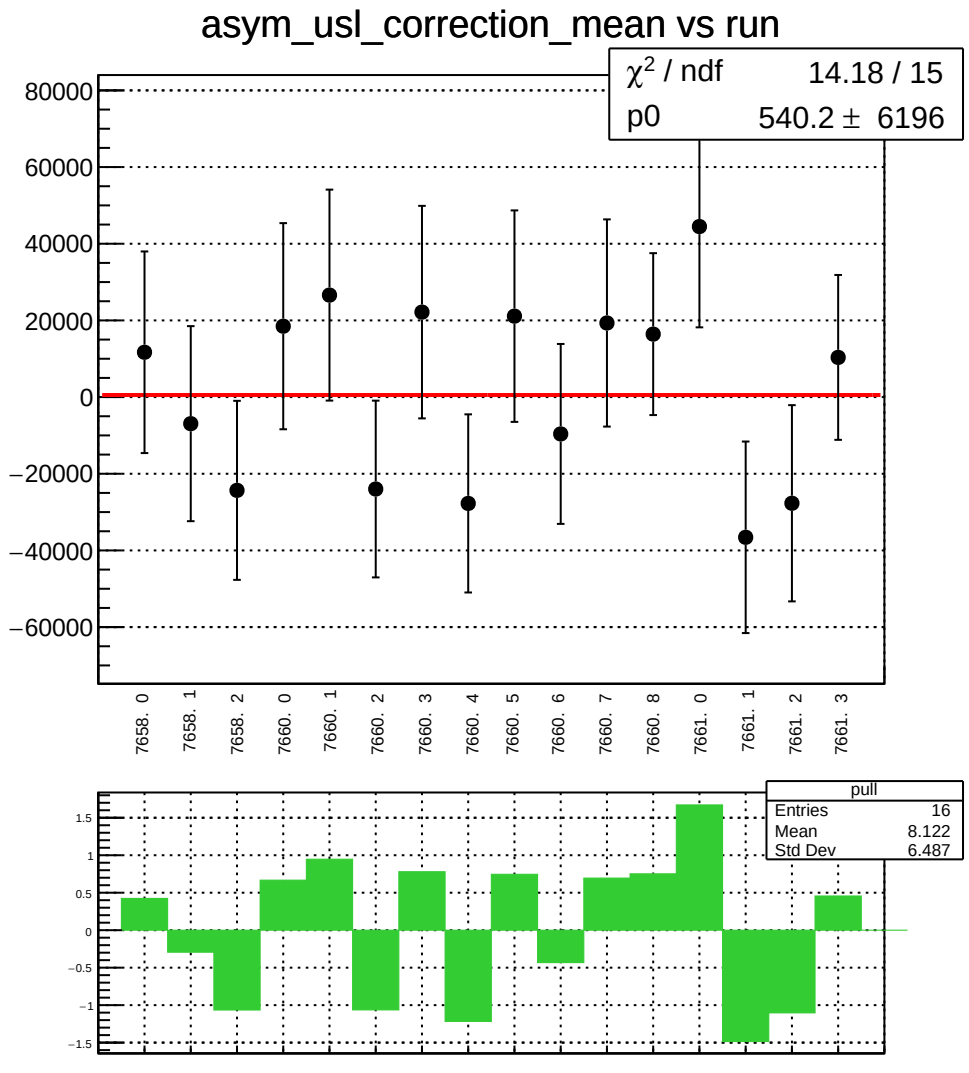

pull1D
Entries 16
Mean 0.00117
Std Dev 0.983
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

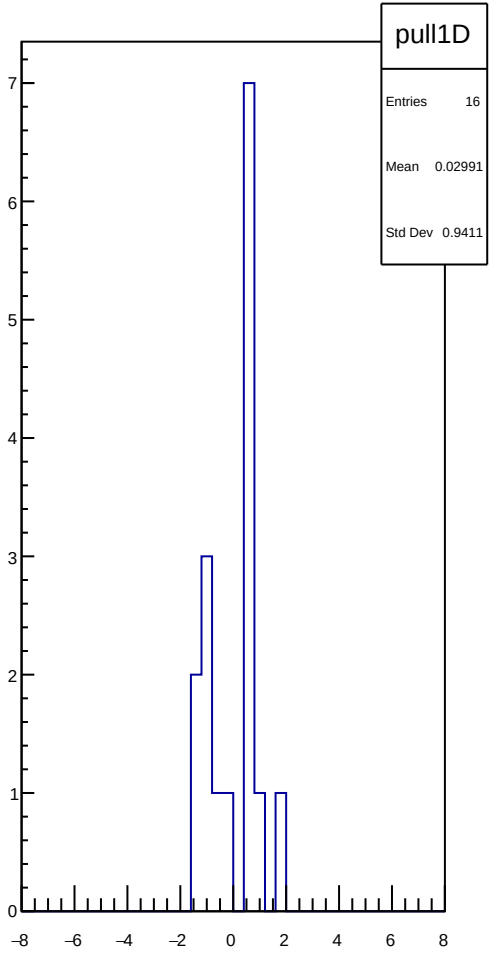

asym_us_dd_rms vs run
χ² / ndf 187.7 / 15
p0 2190 ± 3.984
2300
2250
2200
2150
2100
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

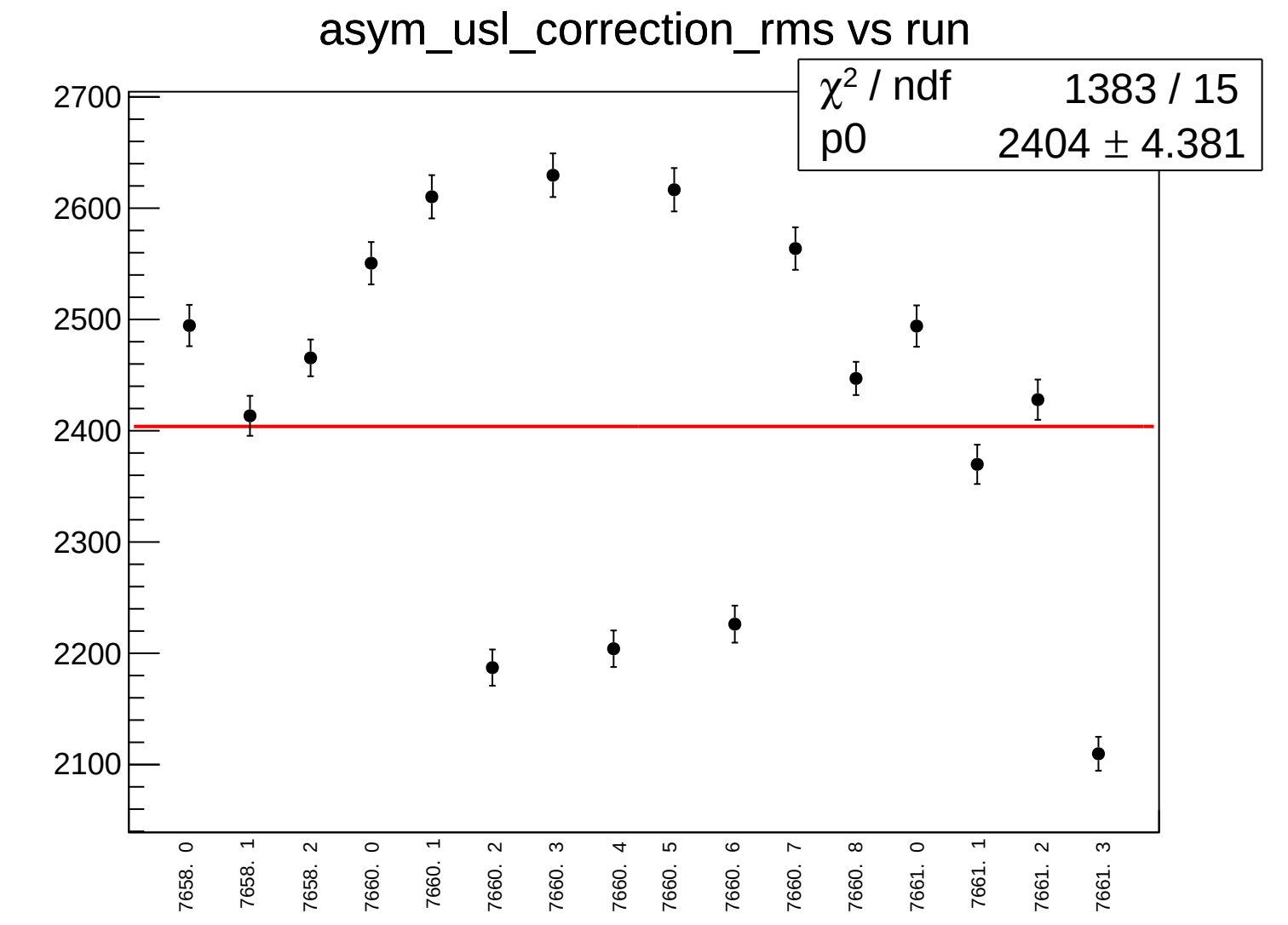

dit_asym_usl_mean vs run
χ² / ndf 13.05 / 15
p0 −278.9 ± 2796
30000
20000
10000
0
−10000
−20000
−30000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −72.85
Std Dev 92.36
1.5
1
0.5
0
−0.5
−1
−1.5

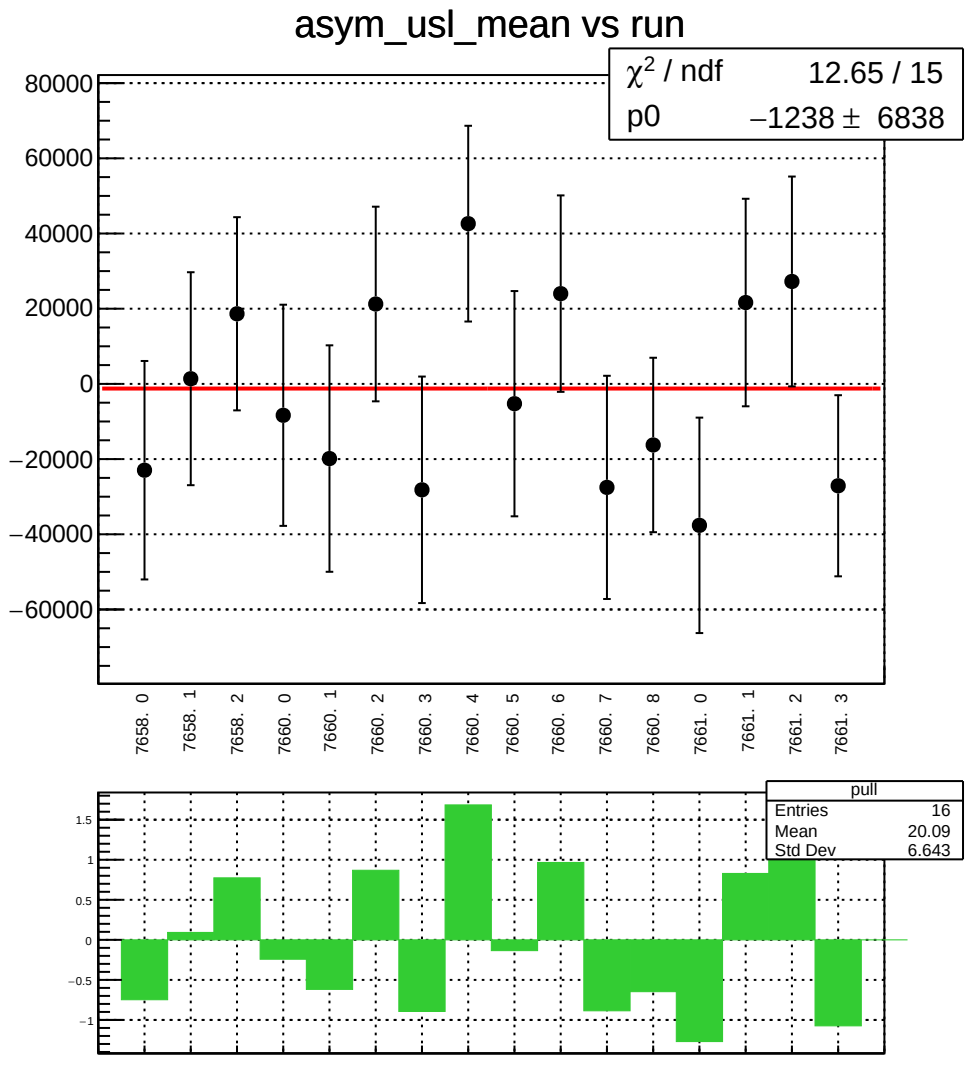

pull1D
Entries 16
Mean 0.005545
Std Dev 0.9032
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

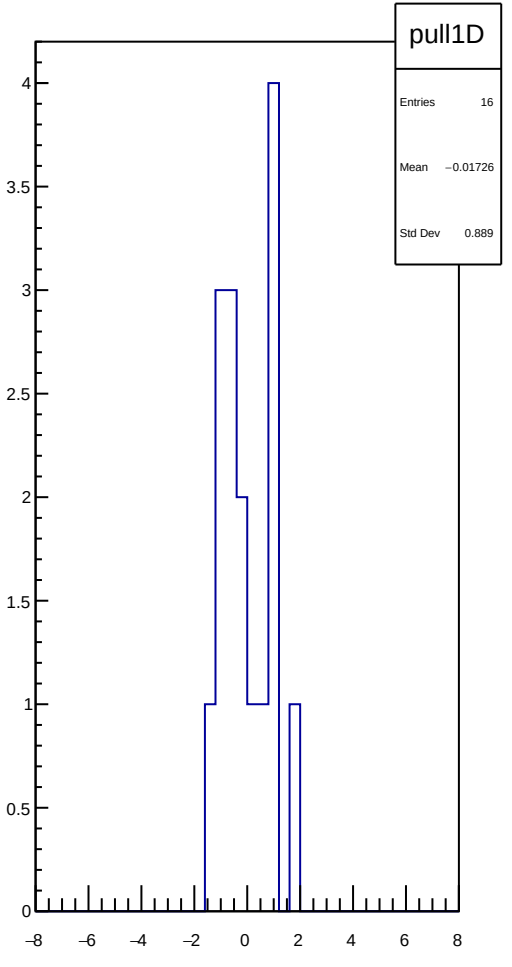

dit_asym_usl_rms vs run
χ^2 / ndf 14.73 / 15
p0 1087 ± 1.977
1110
1100
1090
1080
1070
1060
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

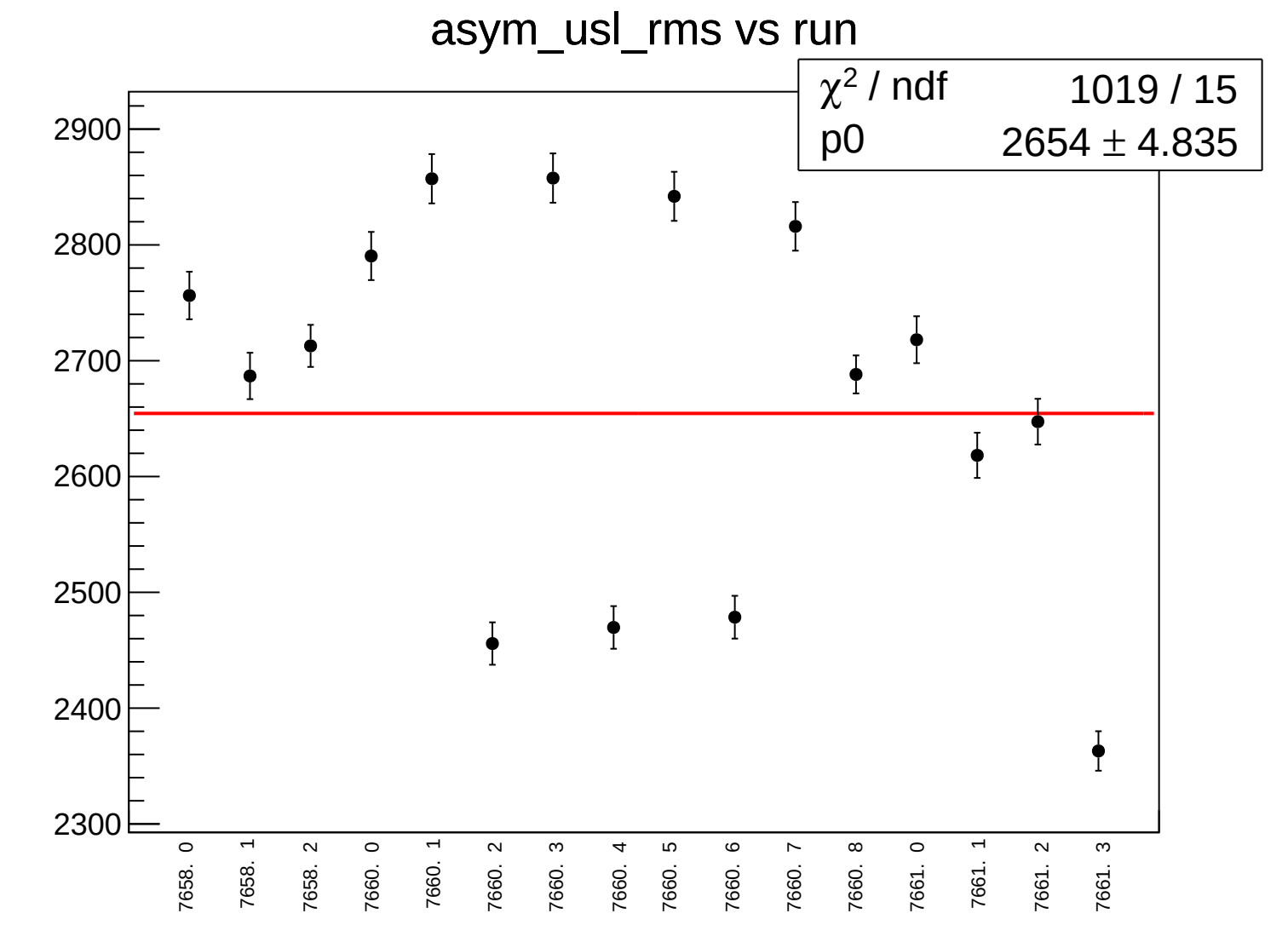

asym_usl_correction_mean vs run
χ² / ndf 14.18 / 15
p0 540.2 ± 6196
80000
60000
40000
20000
0
−20000
−40000
−60000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 8.122
Std Dev 6.487
1.5
1
0.5
0
−0.5
−1
−1.5

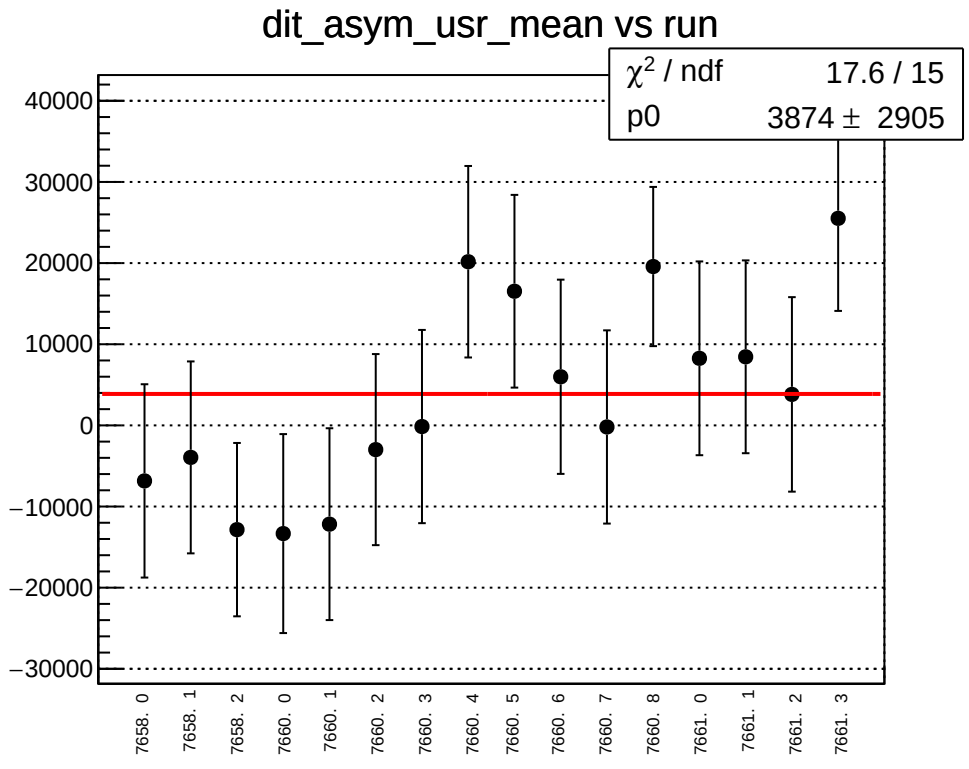

pull1D
Entries 16
Mean 0.02991
Std Dev 0.9411
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

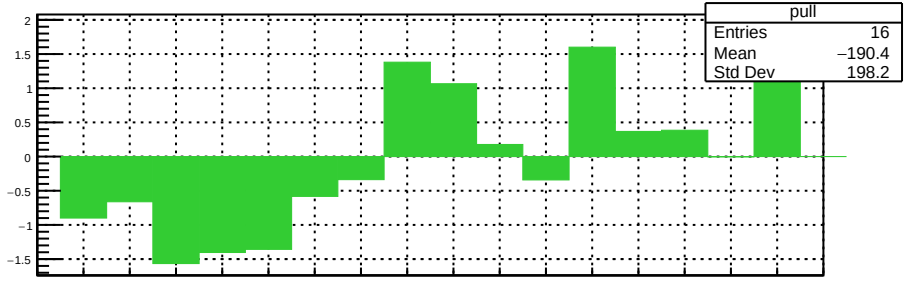

asym_usl_correction_rms vs run
χ² / ndf 1383 / 15
p0 2404 ± 4.381
2700
2600
2500
2400
2300
2200
2100
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

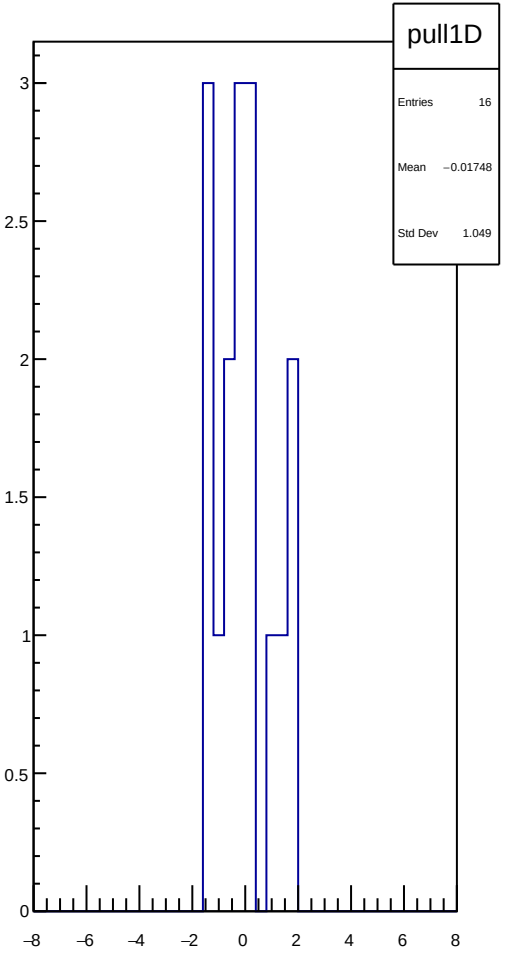

asym_usl_mean vs run
χ² / ndf 12.65 / 15
p0 −1238 ± 6838
80000
60000
40000
20000
0
−20000
−40000
−60000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 20.09
Std Dev 6.643
1.5
1
0.5
0
−0.5
−1

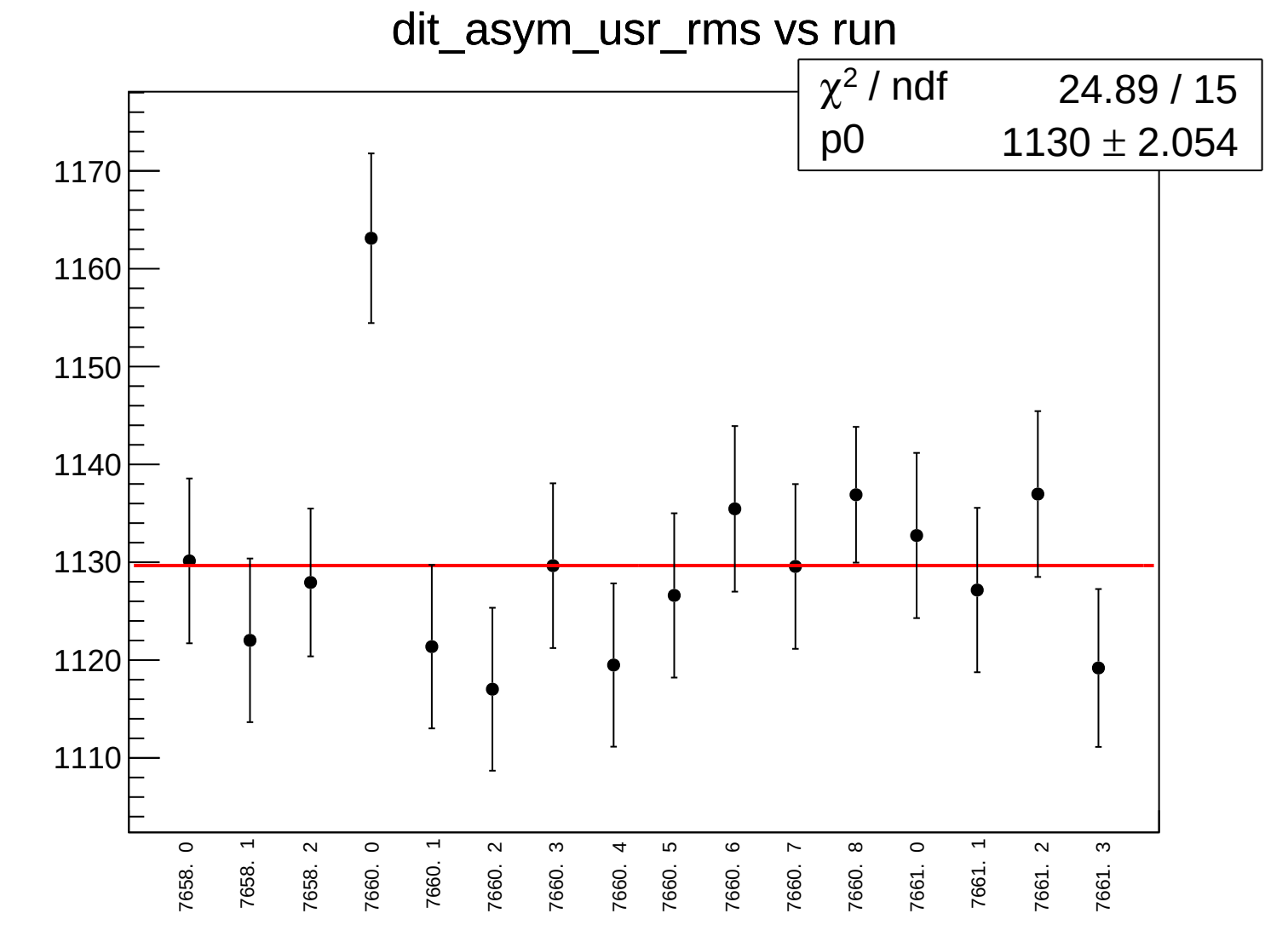

pull1D
Entries 16
Mean −0.01726
Std Dev 0.889
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

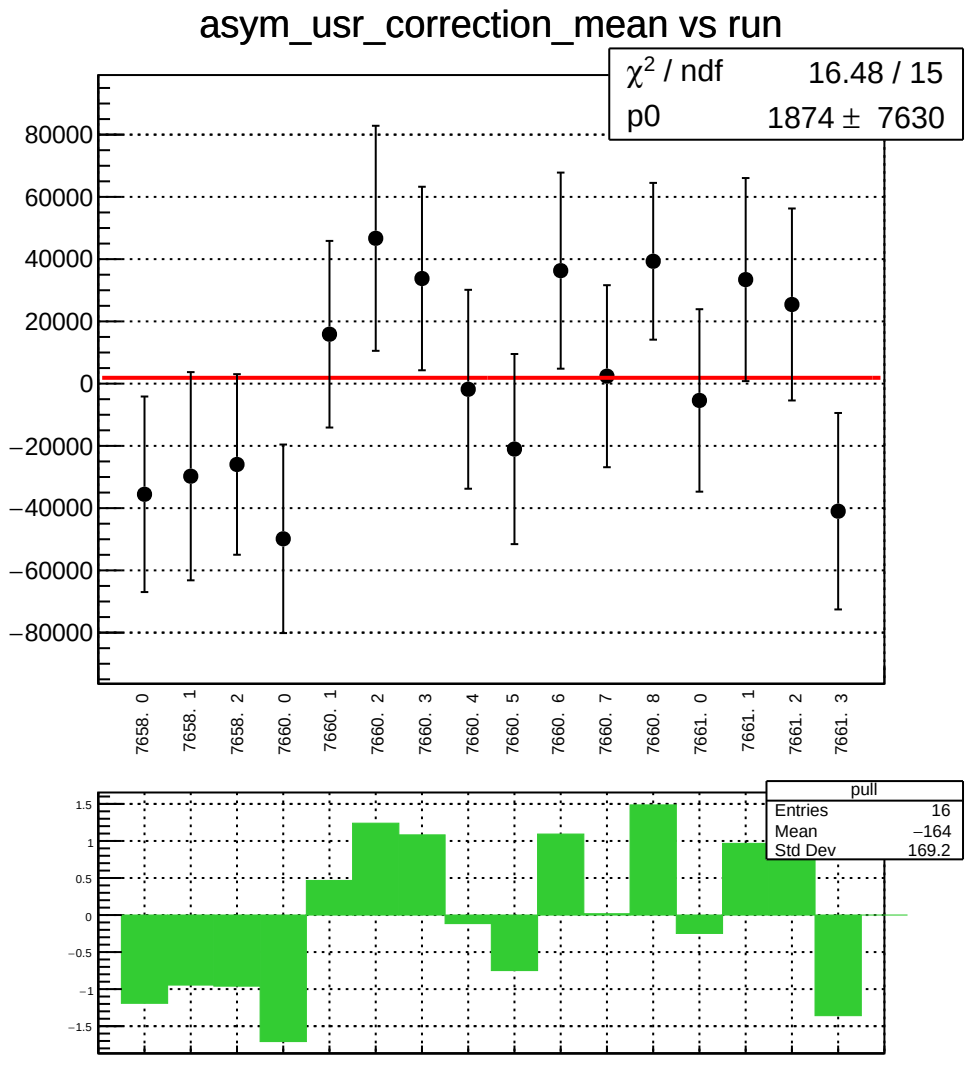

asym_usl_rms vs run
χ² / ndf 1019 / 15
p0 2654 ± 4.835
2900
2800
2700
2600
2500
2400
2300
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

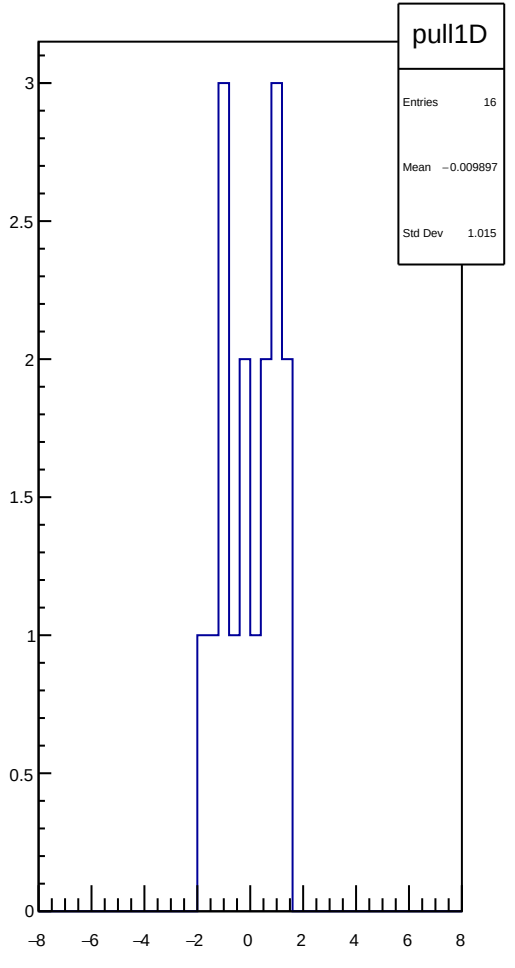

dit_asym_usr_mean vs run
χ² / ndf 17.6 / 15
p0 3874 ± 2905
40000
30000
20000
10000
0
−10000
−20000
−30000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

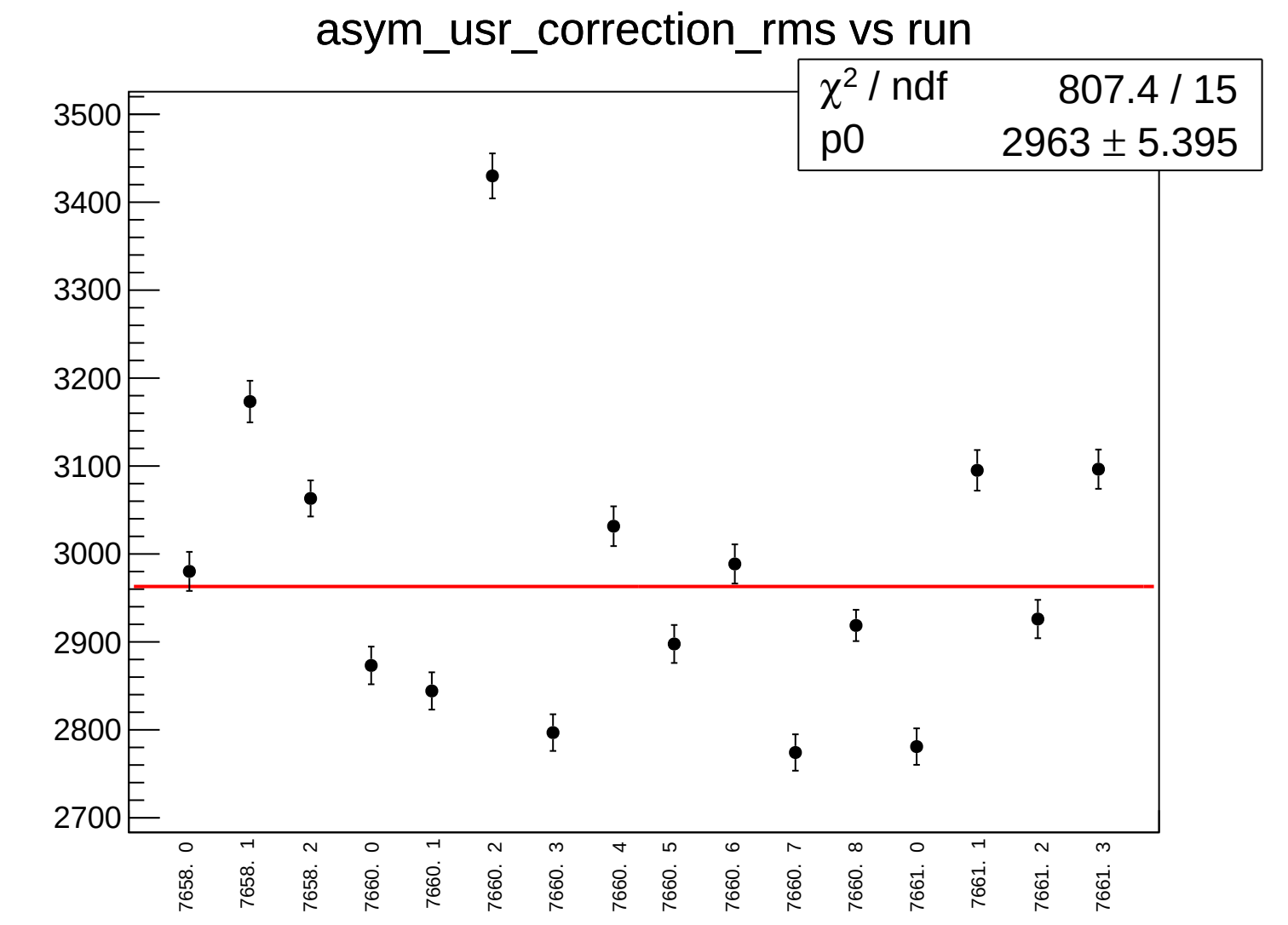

pull
Entries 16
Mean −190.4
Std Dev 198.2
2
1.5
1
0.5
0
−0.5
−1
−1.5

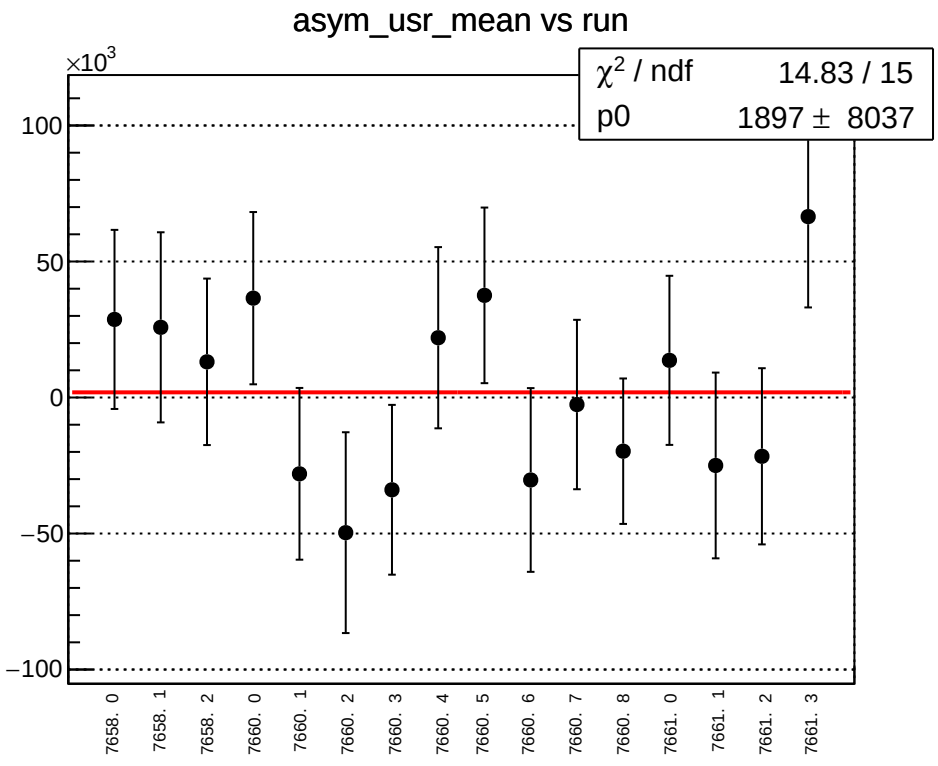

pull1D
Entries 16
Mean −0.01748
Std Dev 1.049
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

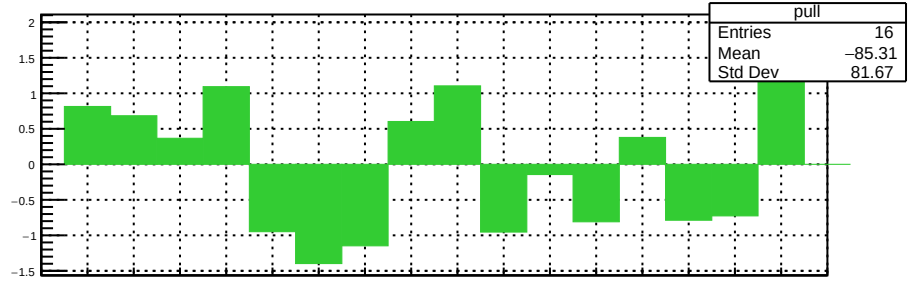

dit_asym_usr_rms vs run
χ² / ndf 24.89 / 15
p0 1130 ± 2.054
1170
1160
1150
1140
1130
1120
1110
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

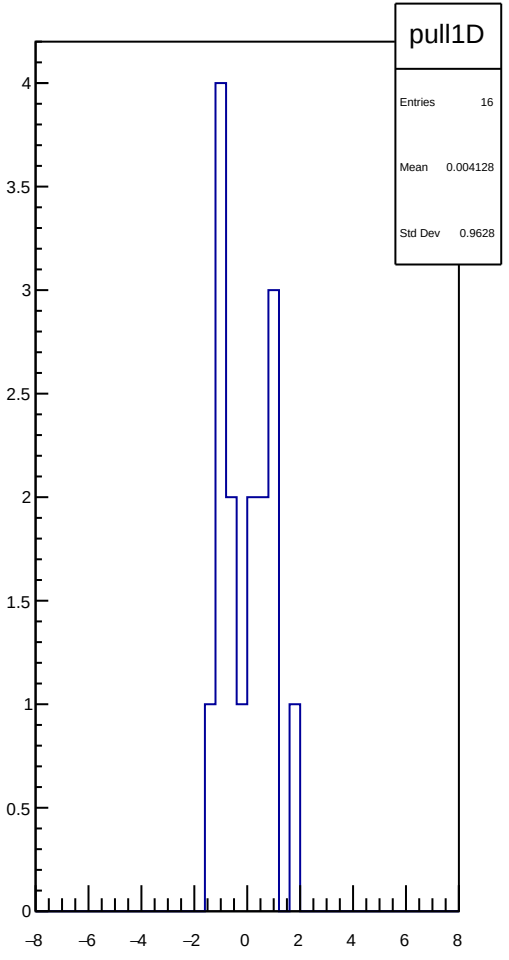

asym_usr_correction_mean vs run
χ² / ndf 16.48 / 15
p0 1874 ± 7630
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −164
Std Dev 169.2
1.5
1
0.5
0
−0.5
−1
−1.5

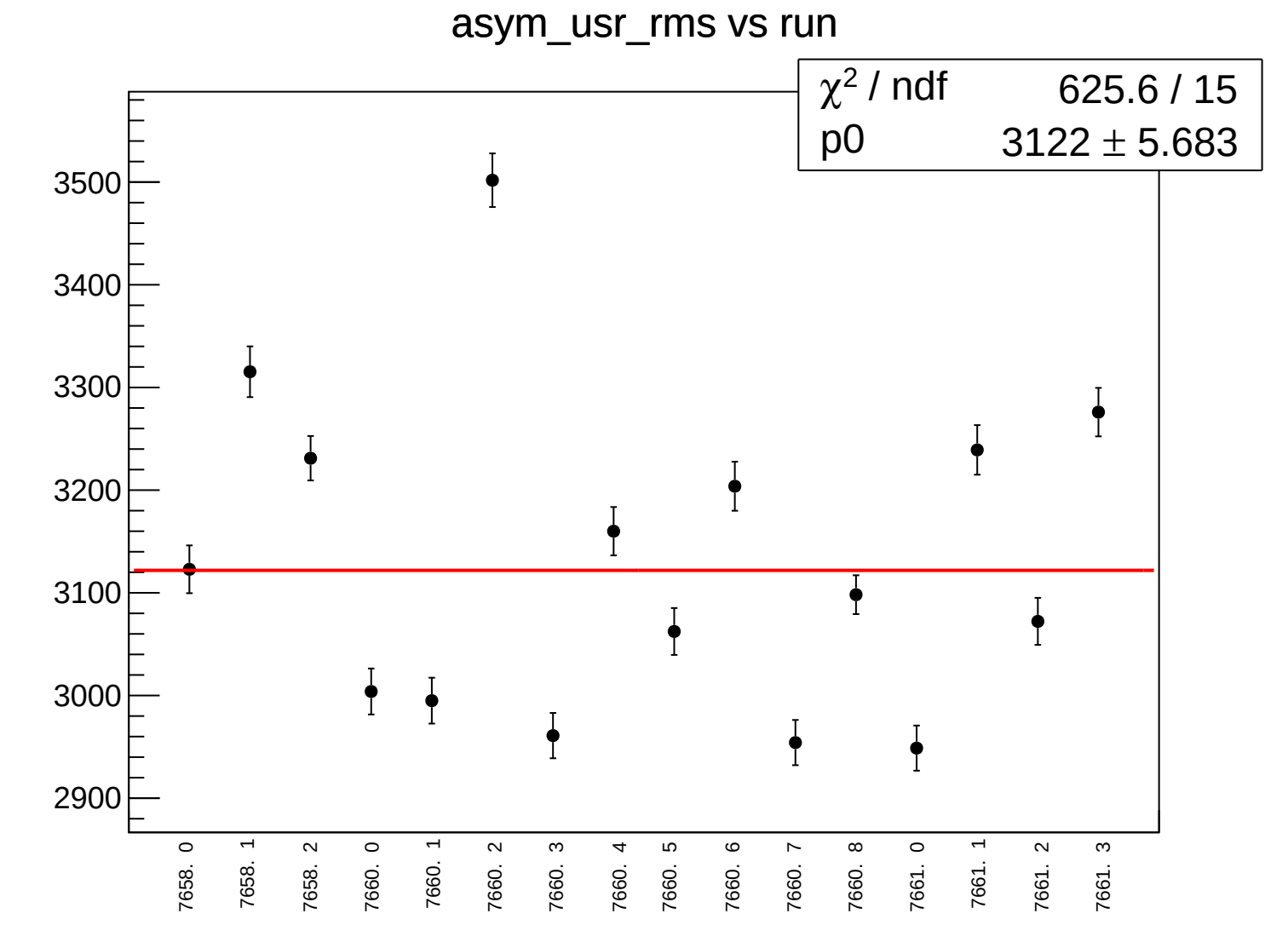

pull1D
Entries 16
Mean −0.009897
Std Dev 1.015
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

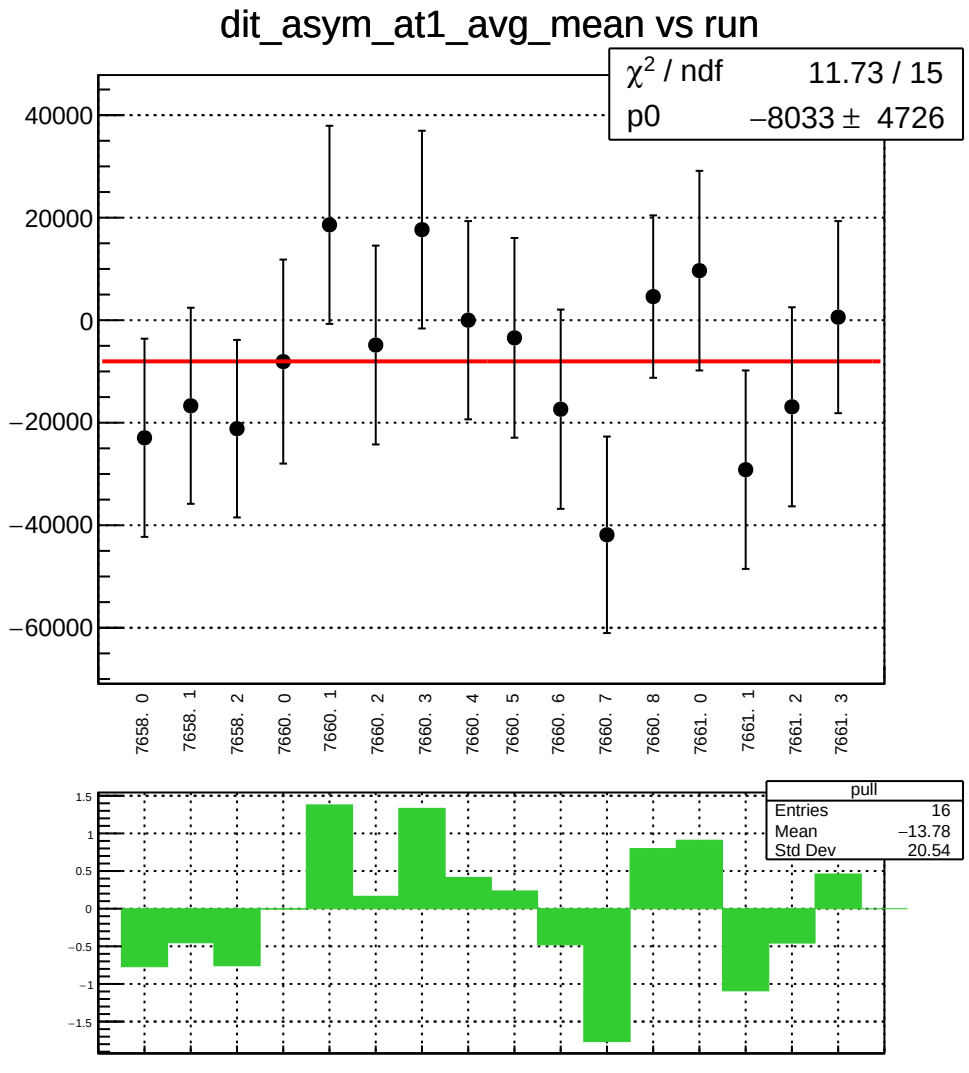

asym_usr_correction_rms vs run
χ² / ndf 807.4 / 15
p0 2963 ± 5.395
3500
3400
3300
3200
3100
3000
2900
2800
2700
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

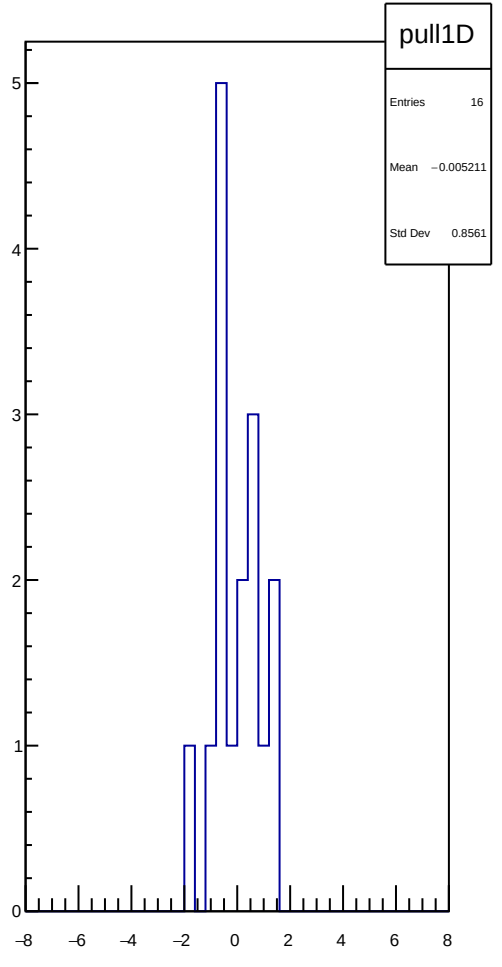

asym_usr_mean vs run
×10^3
χ^2 / ndf 14.83 / 15
p0 1897 ± 8037
100
50
0
−50
−100
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

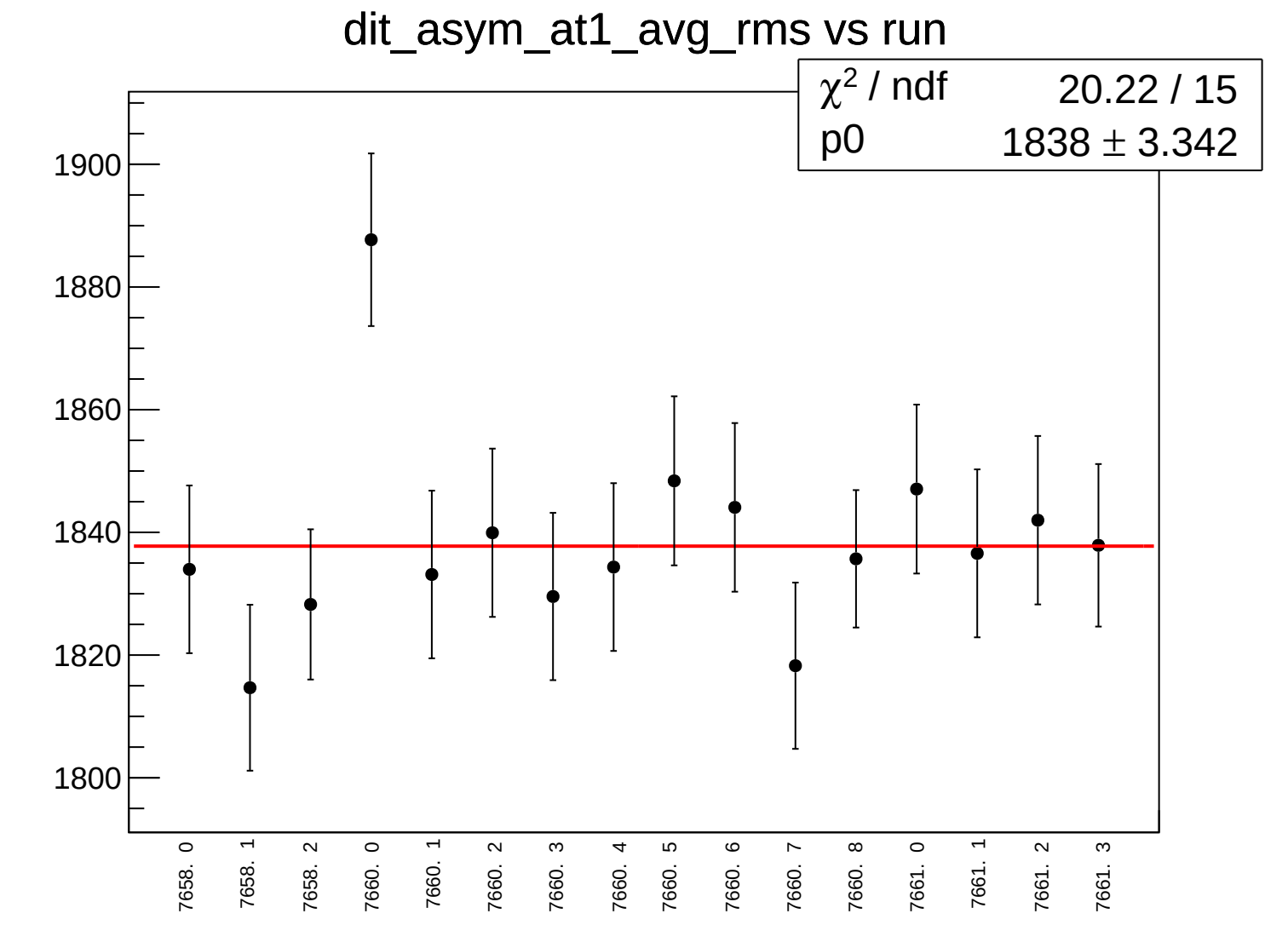

pull
Entries 16
Mean −85.31
Std Dev 81.67
2
1.5
1
0.5
0
−0.5
−1
−1.5

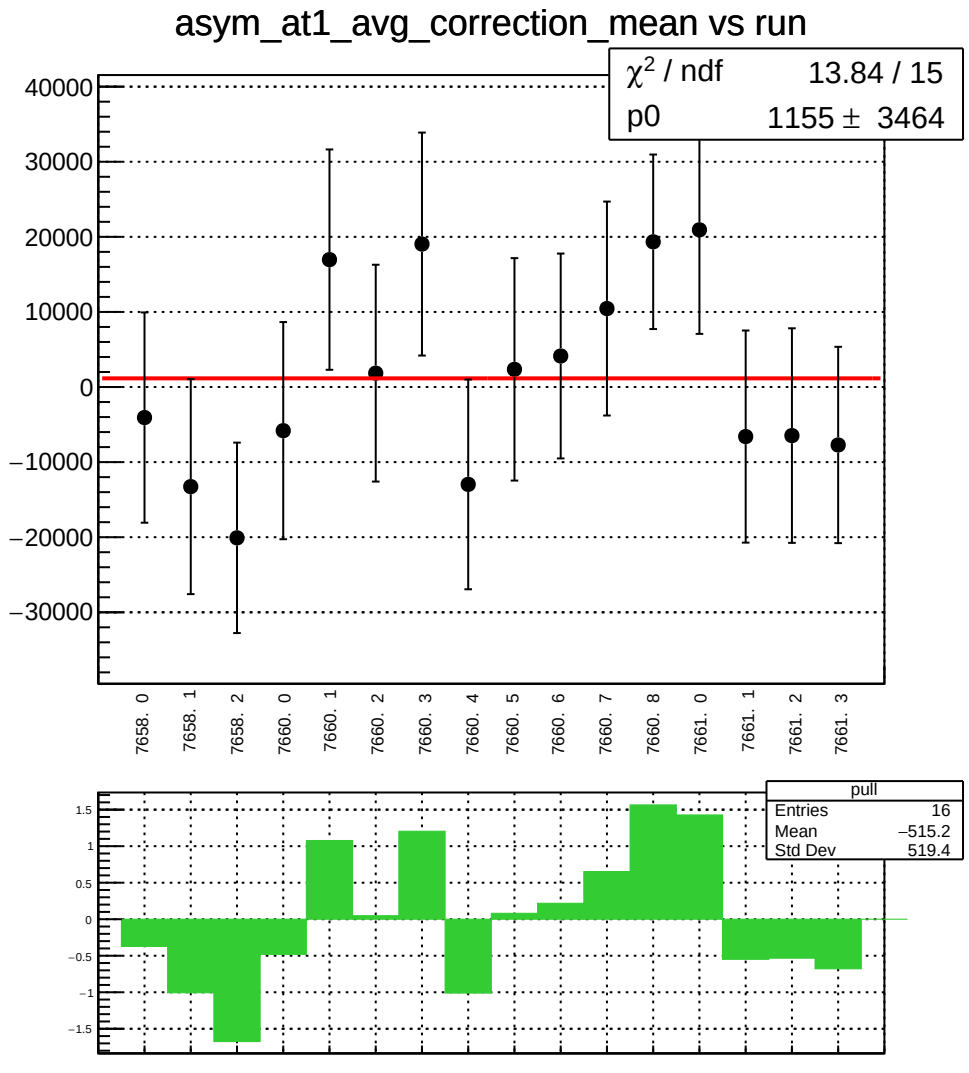

pull1D
Entries 16
Mean 0.004128
Std Dev 0.9628
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

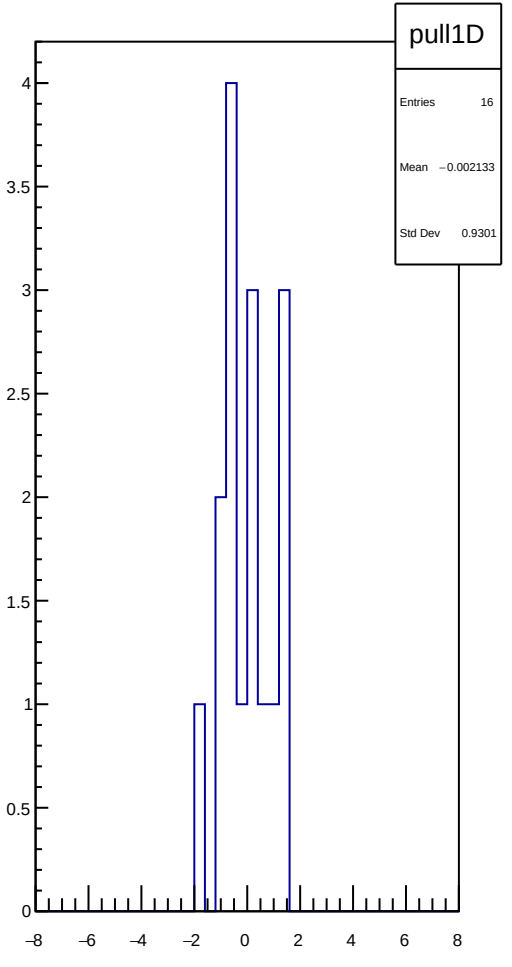

asym_usr_rms vs run
χ² / ndf 625.6 / 15
p0 3122 ± 5.683
3500
3400
3300
3200
3100
3000
2900
17658. 0
17658. 1
17658. 2
17660. 0
17660. 1
17660. 2
17660. 3
17660. 4
17660. 5
17660. 6
17660. 7
17660. 8
17661. 0
17661. 1
17661. 2
17661. 3

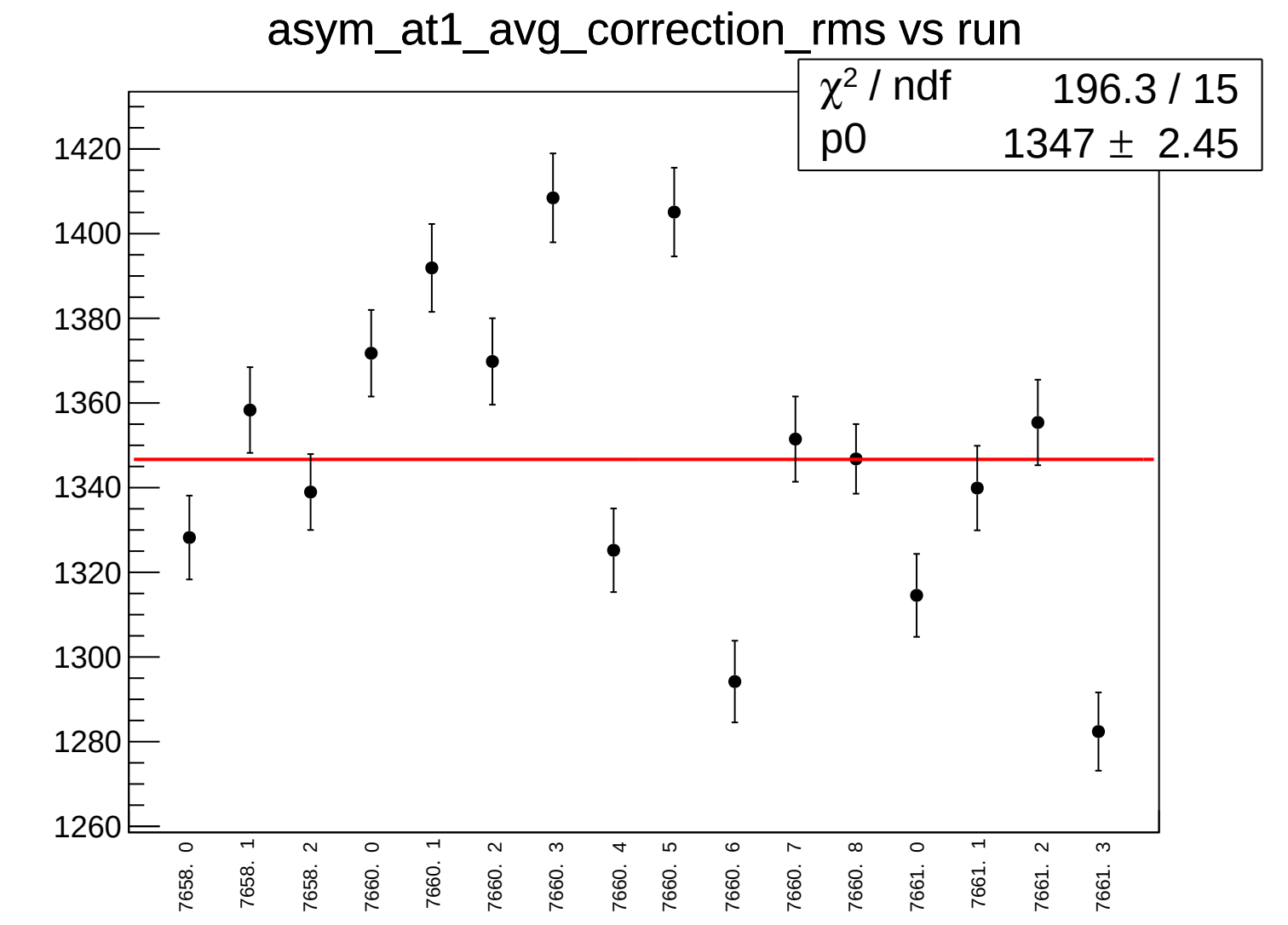

dit_asym_at1_avg_mean vs run
χ² / ndf 11.73 / 15
p0 −8033 ± 4726
40000
20000
0
−20000
−40000
−60000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −13.78
Std Dev 20.54
1.5
1
0.5
0
−0.5
−1
−1.5

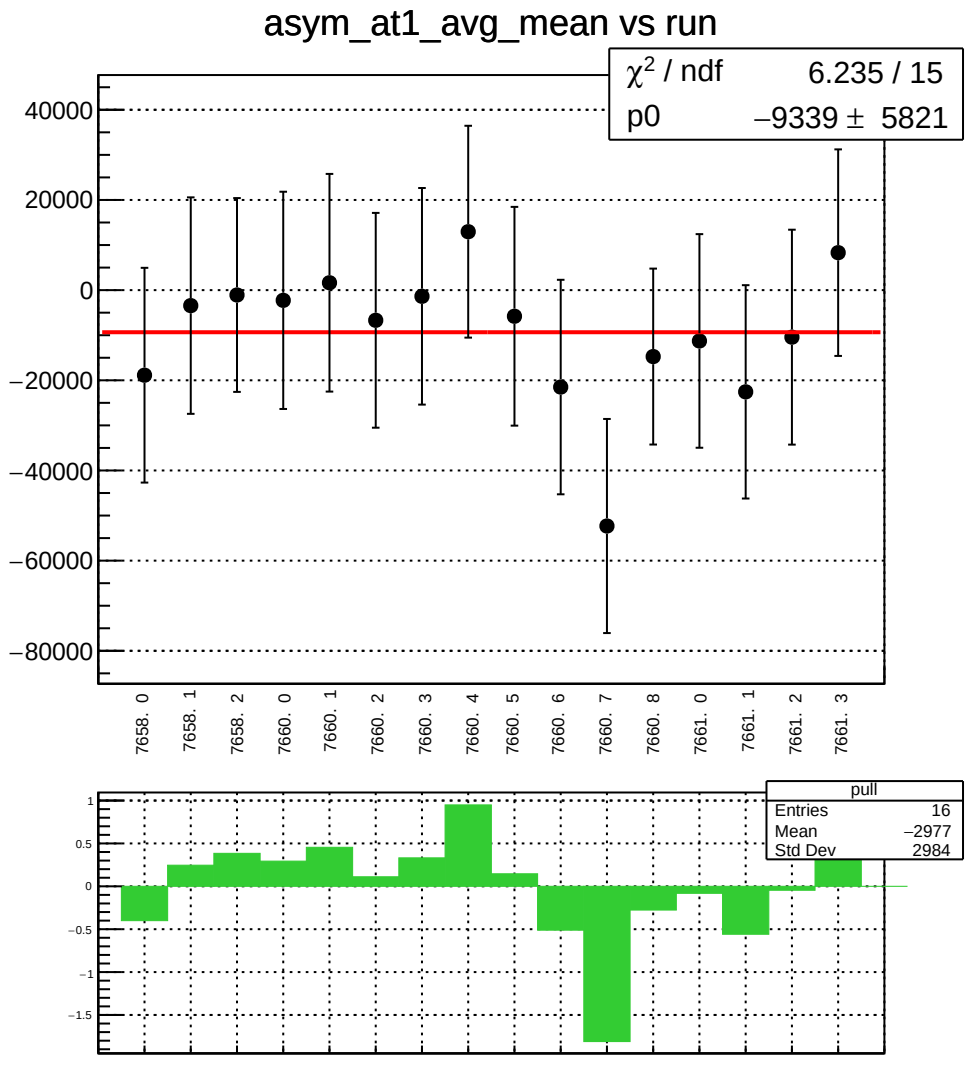

pull1D
Entries 16
Mean −0.005211
Std Dev 0.8561
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

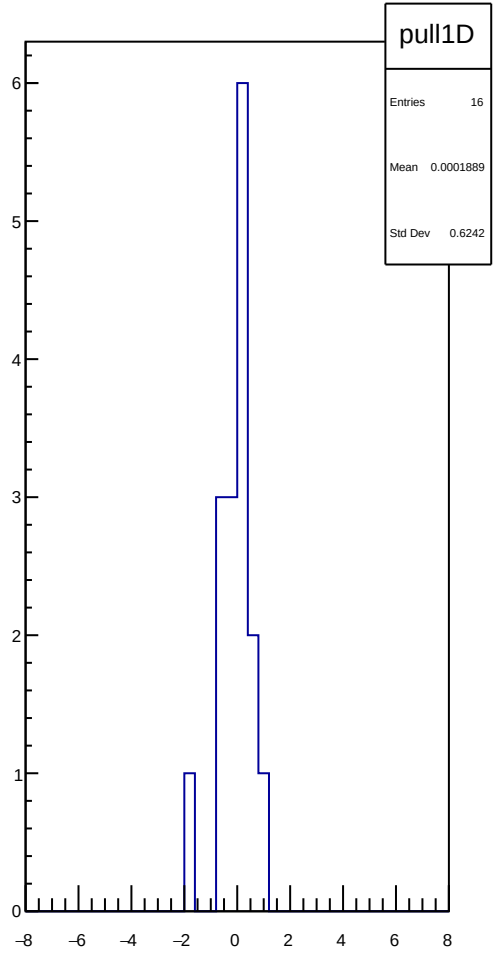

dit_asym_at1_avg_rms vs run
χ² / ndf 20.22 / 15
p0 1838 ± 3.342
1900
1880
1860
1840
1820
1800
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

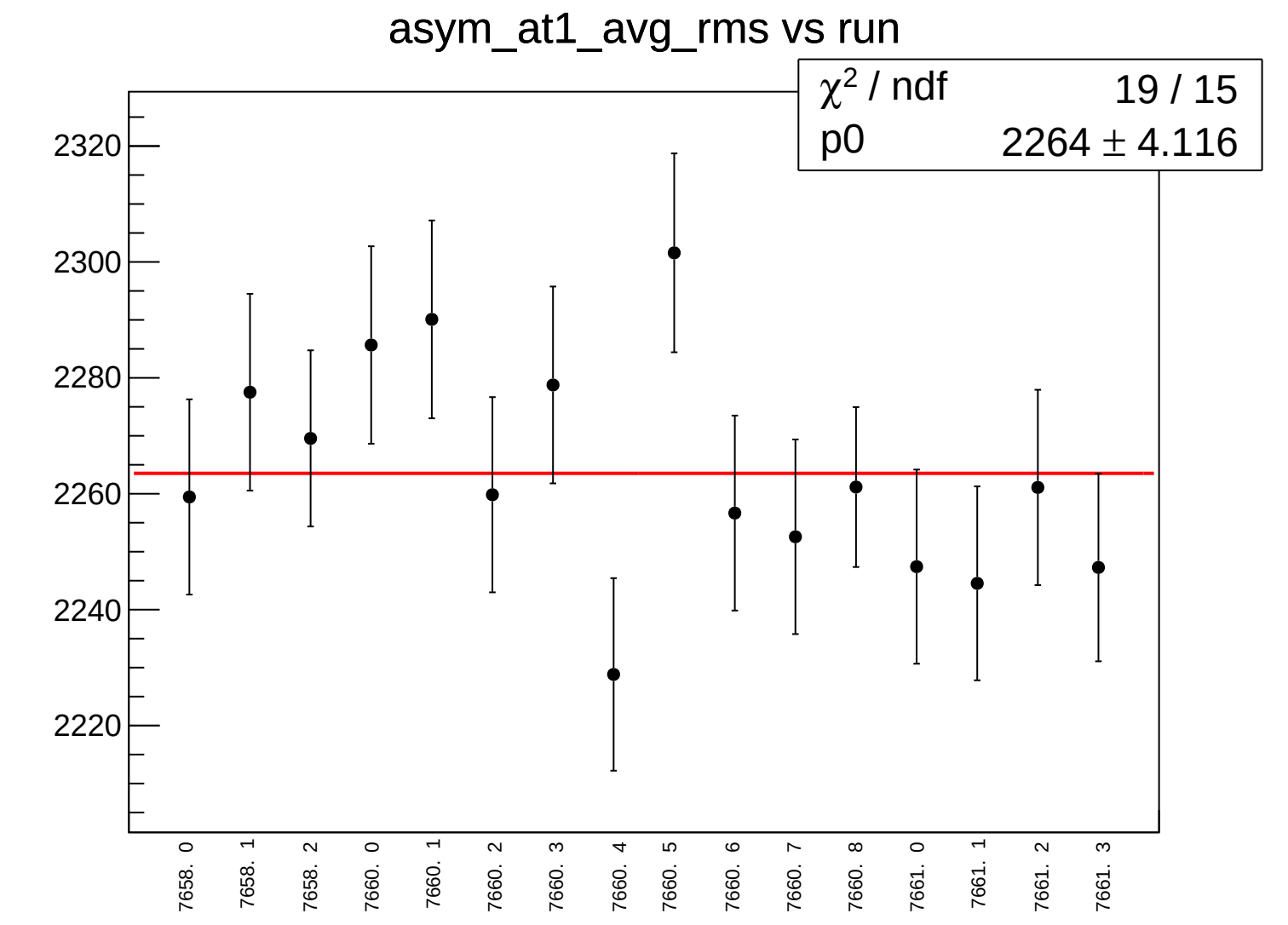

asym_at1_avg_correction_mean vs run
χ² / ndf 13.84 / 15
p0 1155 ± 3464
40000
30000
20000
10000
0
−10000
−20000
−30000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −515.2
Std Dev 519.4
1.5
1
0.5
0
−0.5
−1
−1.5

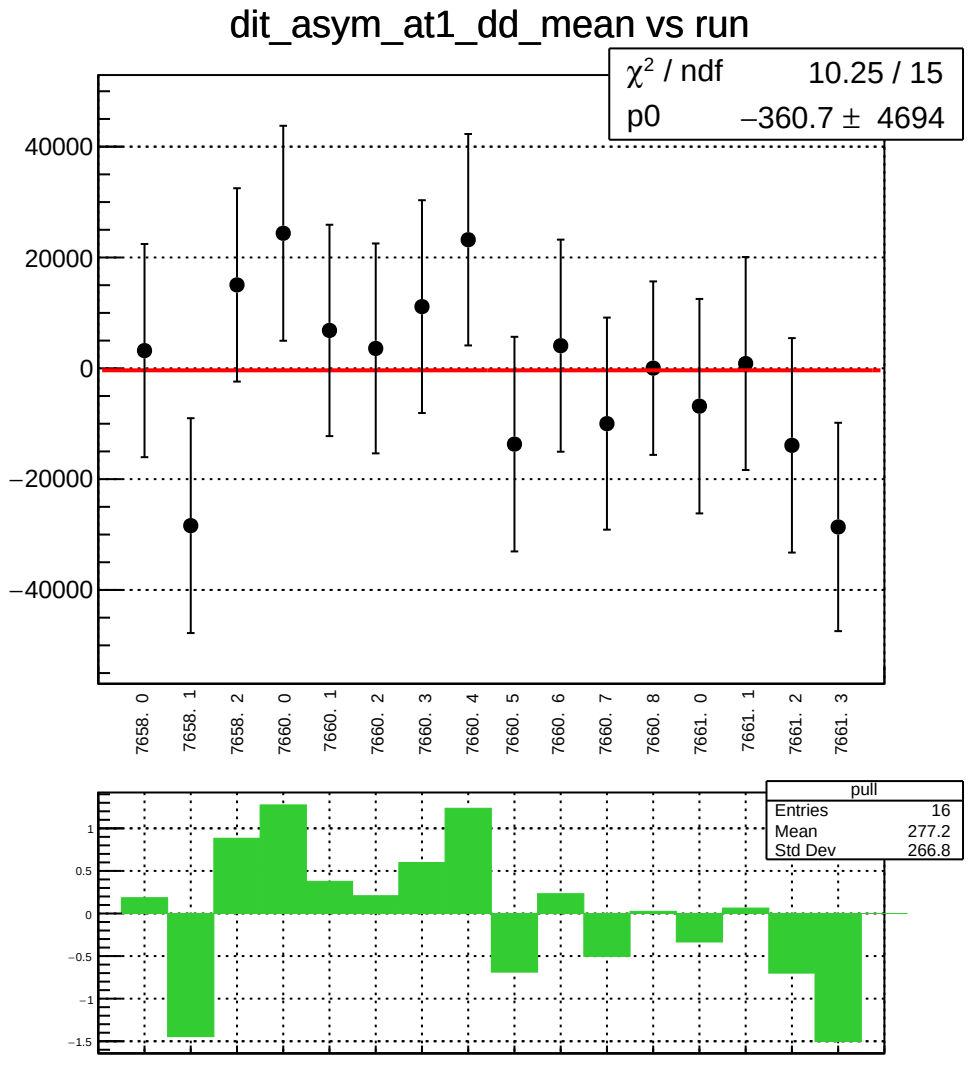

pull1D
Entries 16
Mean −0.002133
Std Dev 0.9301
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

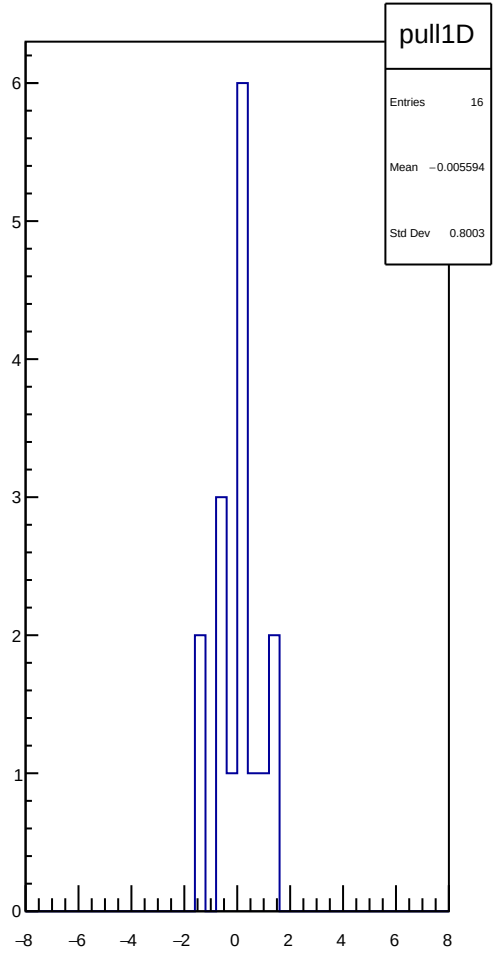

asym_at1_avg_correction_rms vs run
χ² / ndf 196.3 / 15
p0 1347 ± 2.45
1420
1400
1380
1360
1340
1320
1300
1280
1260
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

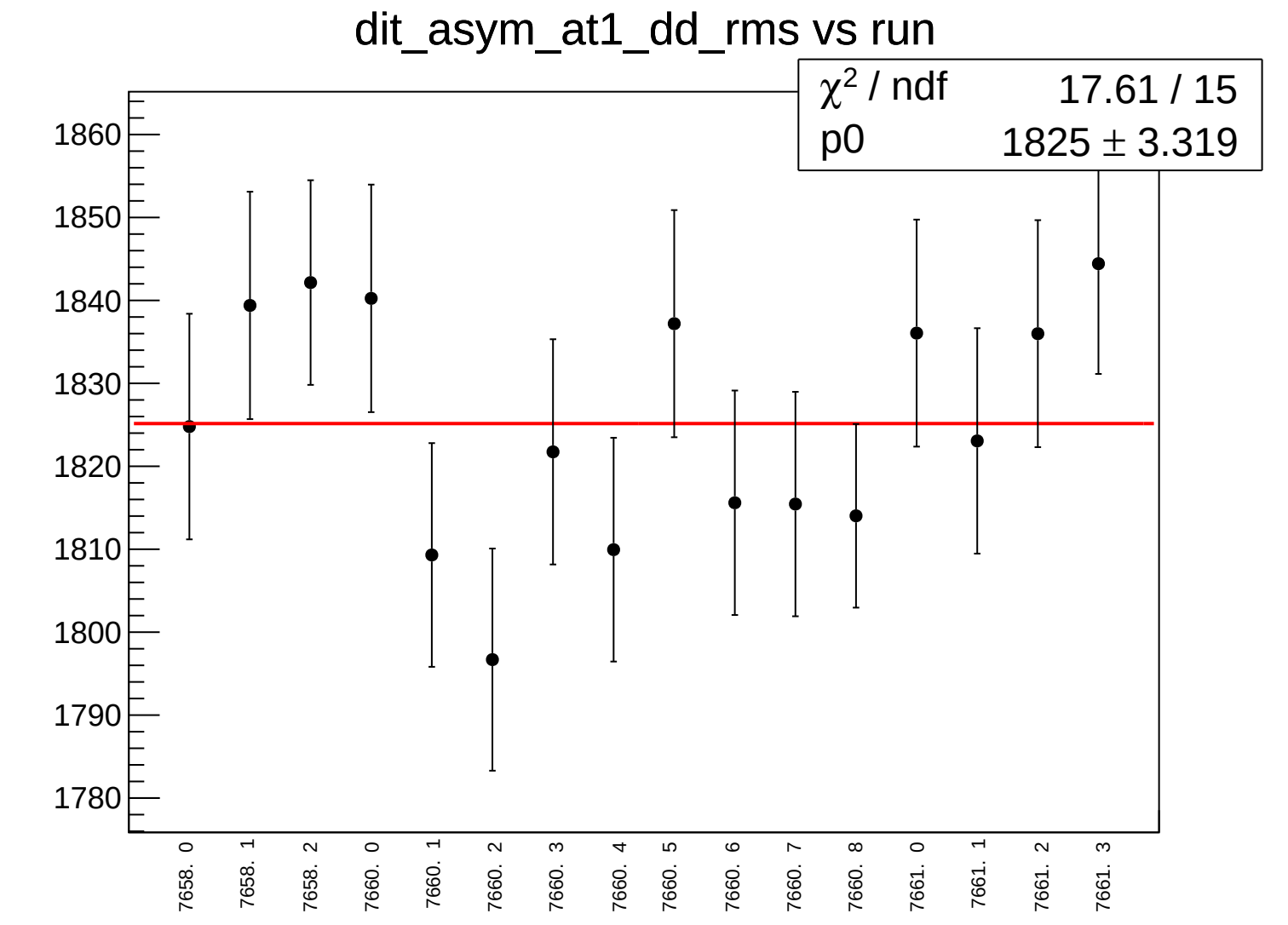

asym_at1_avg_mean vs run
χ² / ndf 6.235 / 15
p0 −9339 ± 5821
40000
20000
0
−20000
−40000
−60000
−80000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −2977
Std Dev 2984
1
0.5
0
−0.5
−1
−1.5

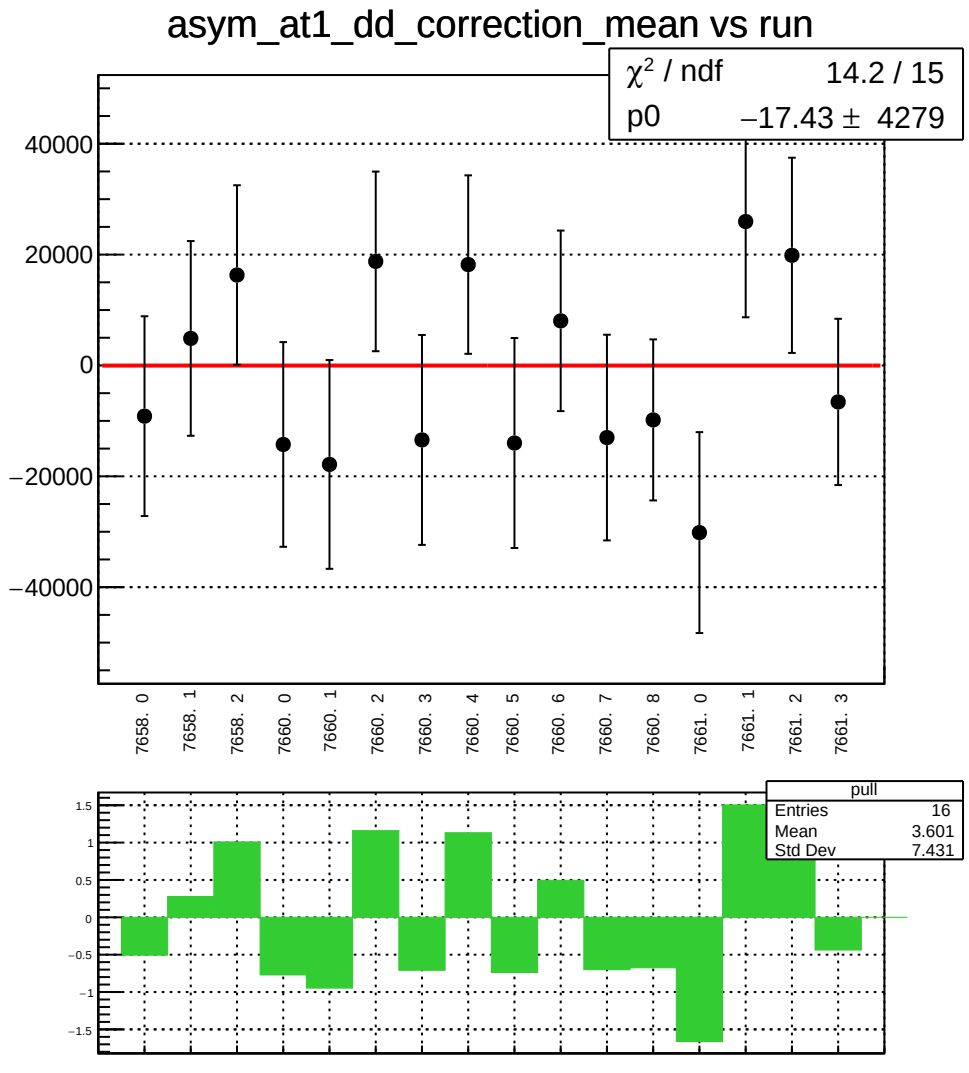

pull1D
Entries 16
Mean 0.0001889
Std Dev 0.6242
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

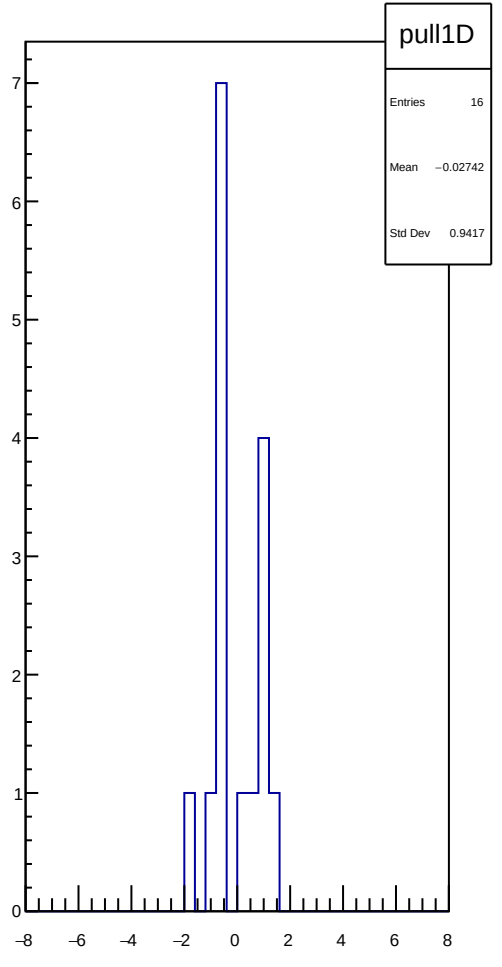

asym_at1_avg_rms vs run
χ² / ndf 19 / 15
p0 2264 ± 4.116
2320
2300
2280
2260
2240
2220
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

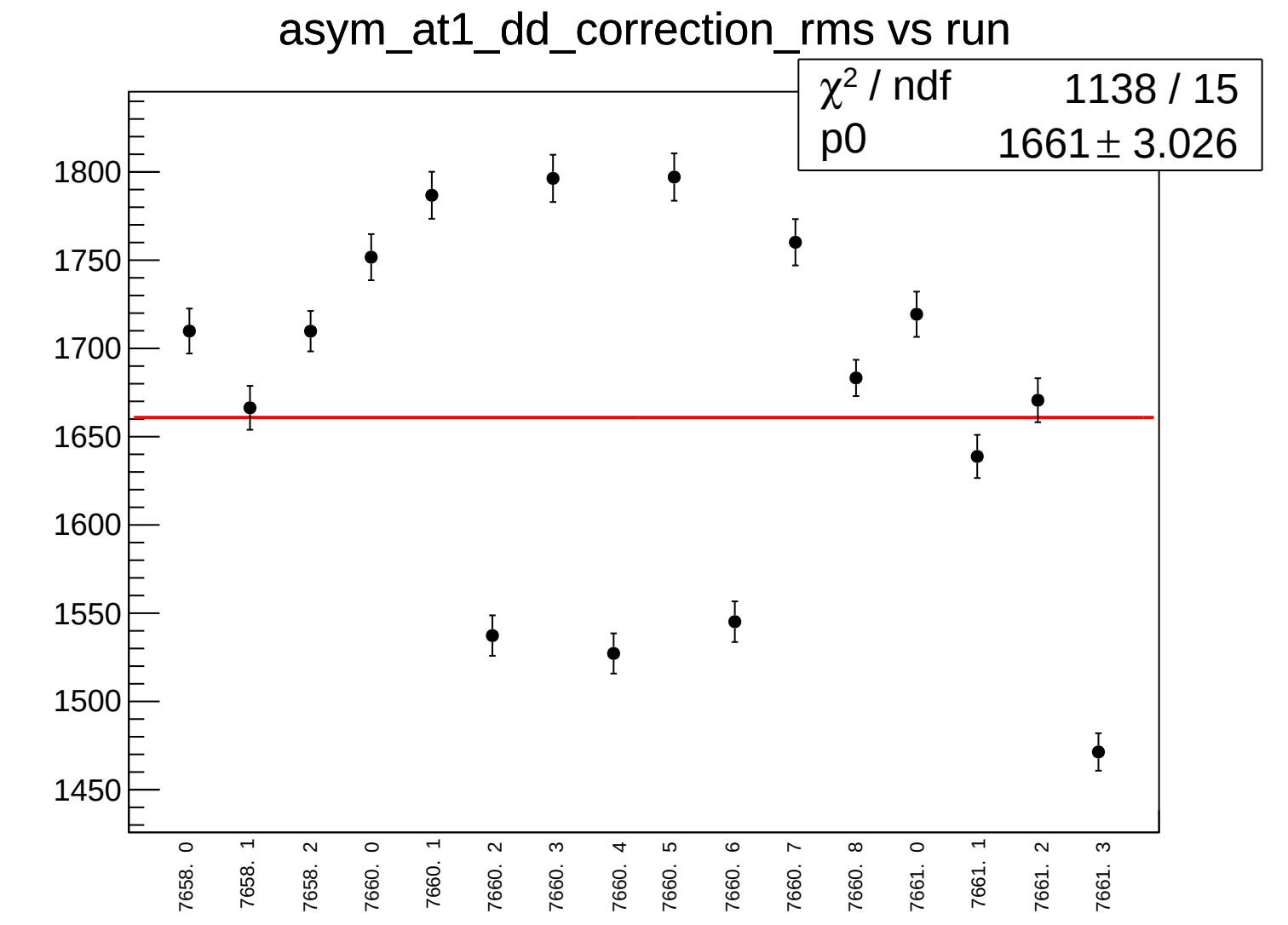

dit_asym_at1_dd_mean vs run
χ² / ndf 10.25 / 15
p0 −360.7 ± 4694
40000
20000
0
−20000
−40000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 277.2
Std Dev 266.8
1
0.5
0
−0.5
−1
−1.5

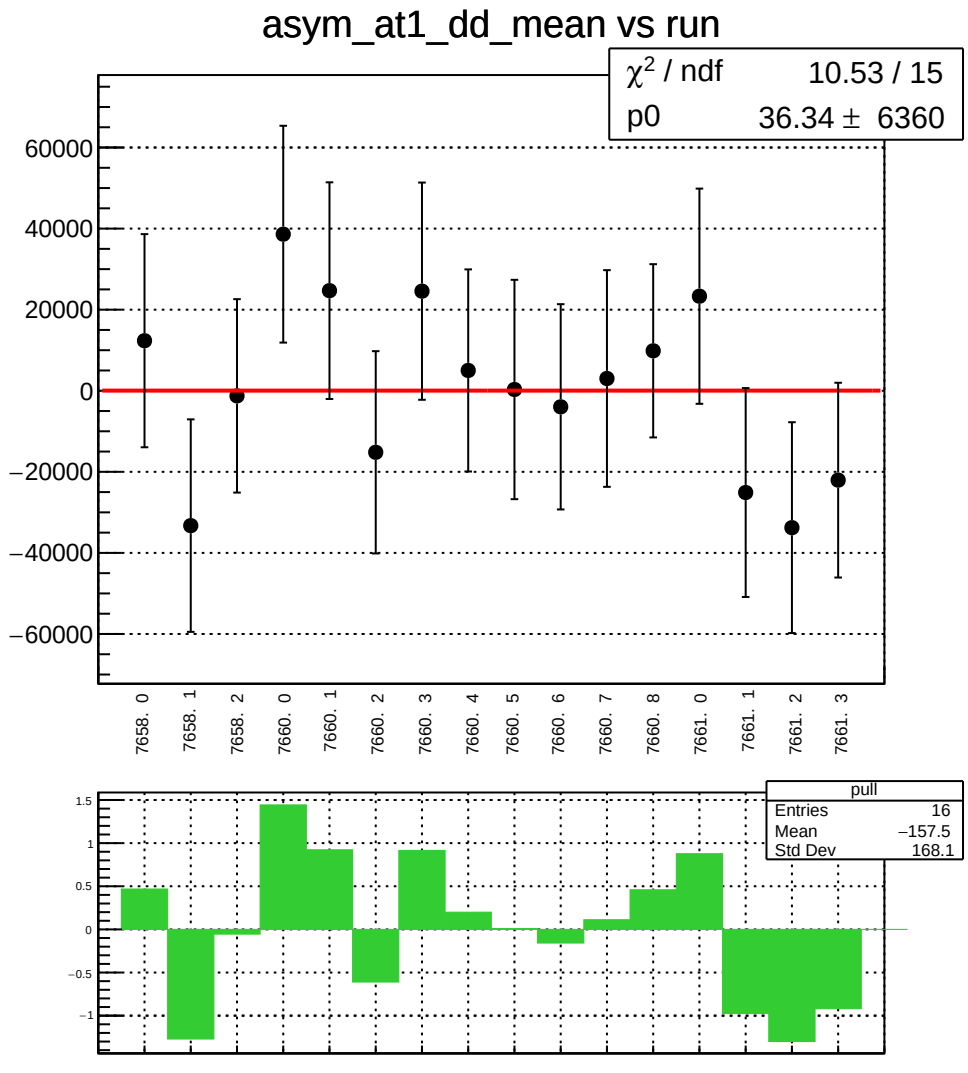

pull1D
Entries 16
Mean −0.005594
Std Dev 0.8003
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

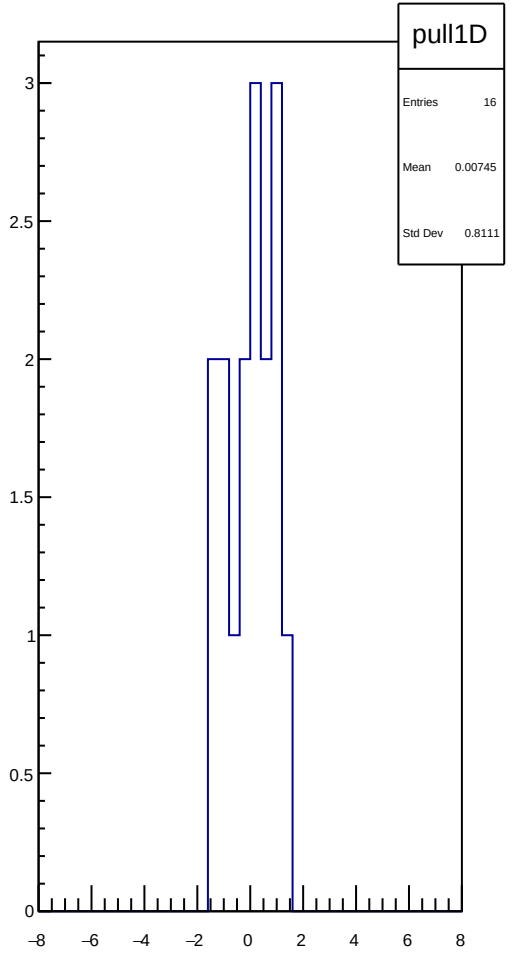

dit_asym_at1_dd_rms vs run
χ² / ndf 17.61 / 15
p0 1825 ± 3.319
1860
1850
1840
1830
1820
1810
1800
1790
1780
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

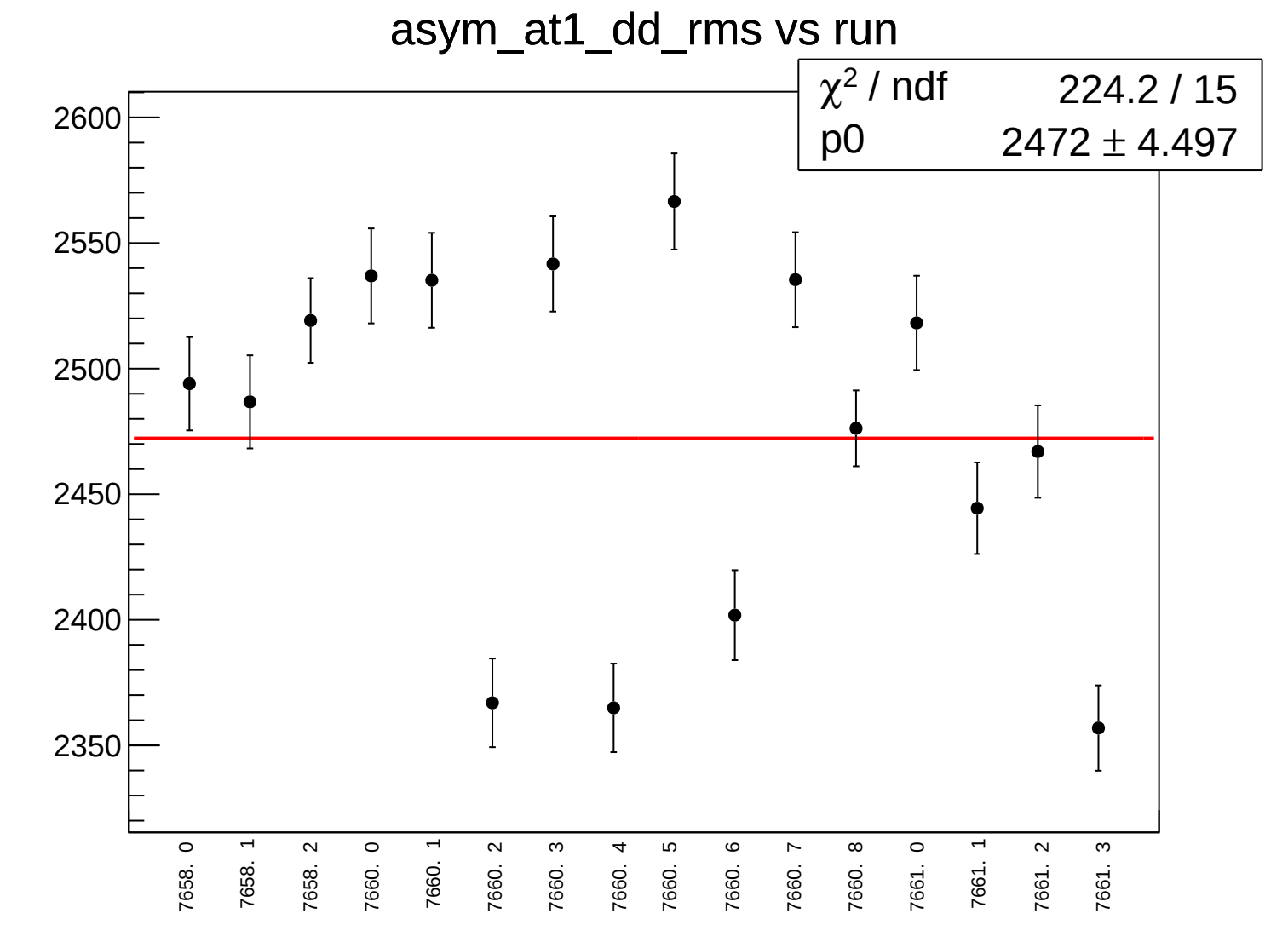

asym_at1_dd_correction_mean vs run
χ² / ndf 14.2 / 15
p0 −17.43 ± 4279
40000
20000
0
−20000
−40000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 3.601
Std Dev 7.431
1.5
1
0.5
0
−0.5
−1
−1.5

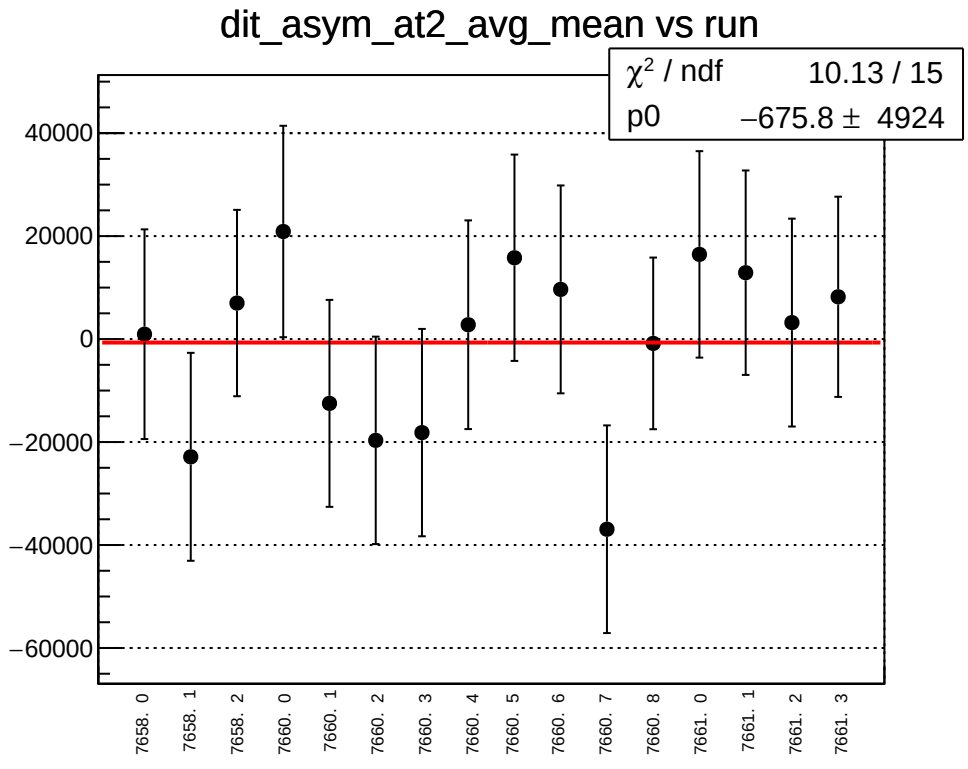

pull1D
Entries 16
Mean −0.02742
Std Dev 0.9417
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

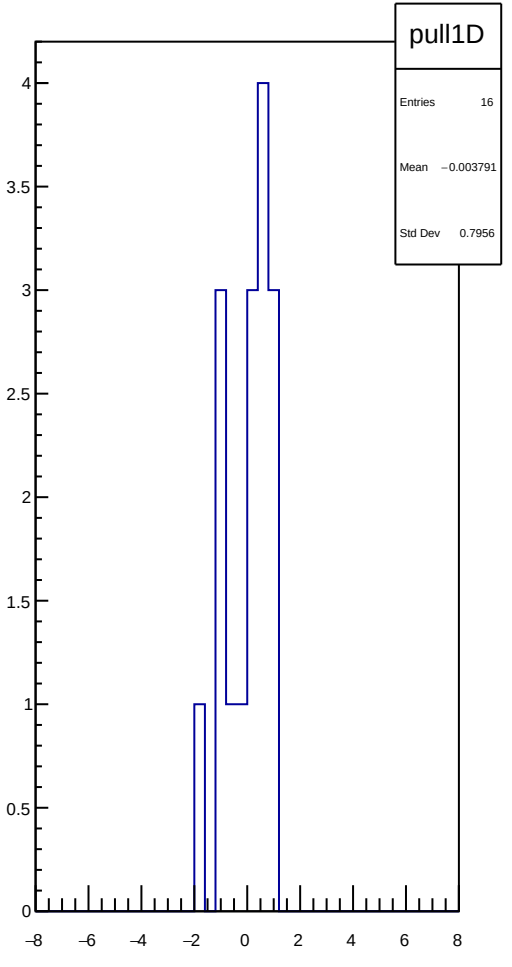

asym_at1_dd_correction_rms vs run
χ² / ndf 1138 / 15
p0 1661 ± 3.026
1800
1750
1700
1650
1600
1550
1500
1450
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

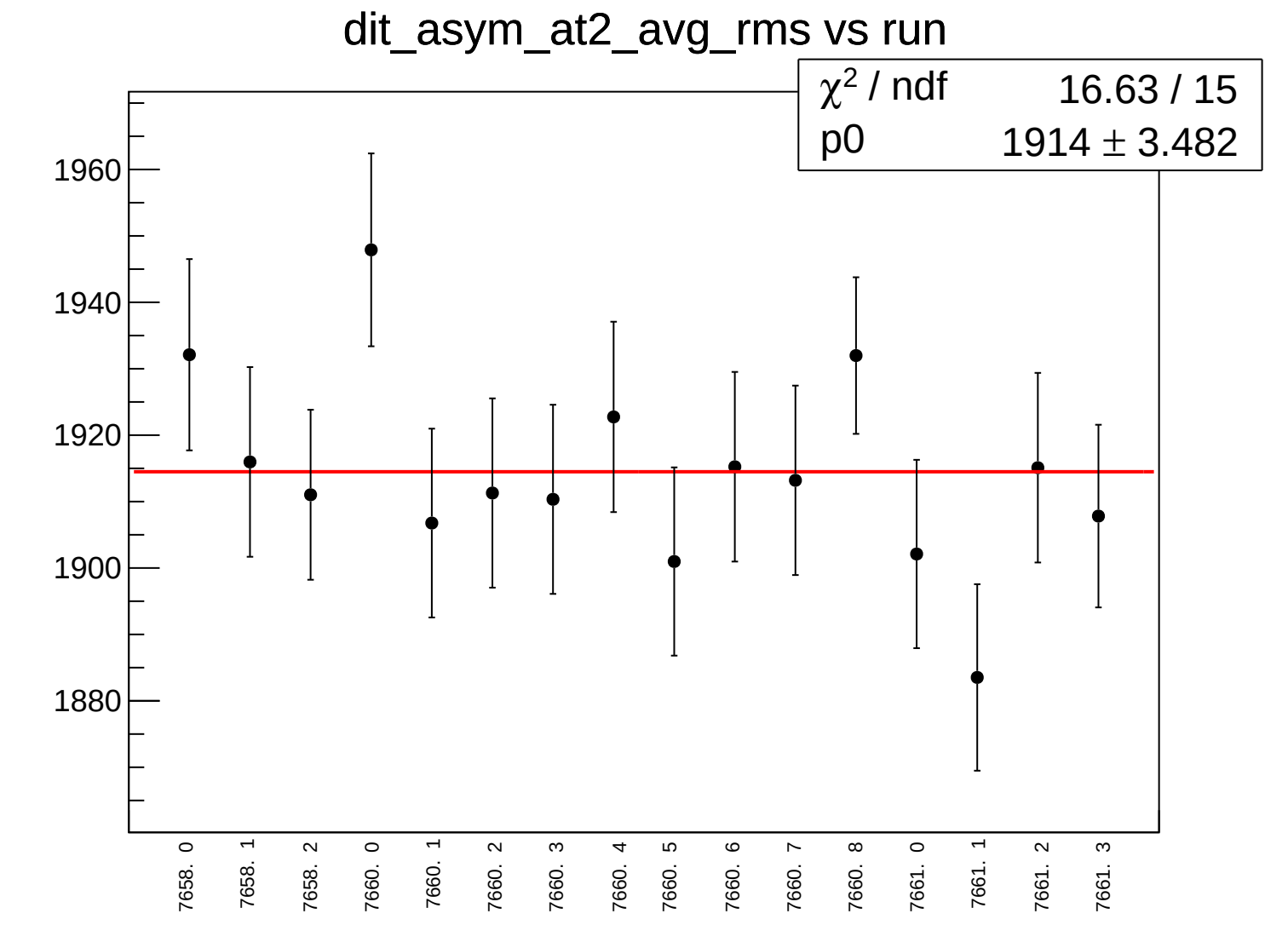

asym_at1_dd_mean vs run
χ² / ndf 10.53 / 15
p0 36.34 ± 6360
60000
40000
20000
0
−20000
−40000
−60000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −157.5
Std Dev 168.1
1.5
1
0.5
0
−0.5
−1

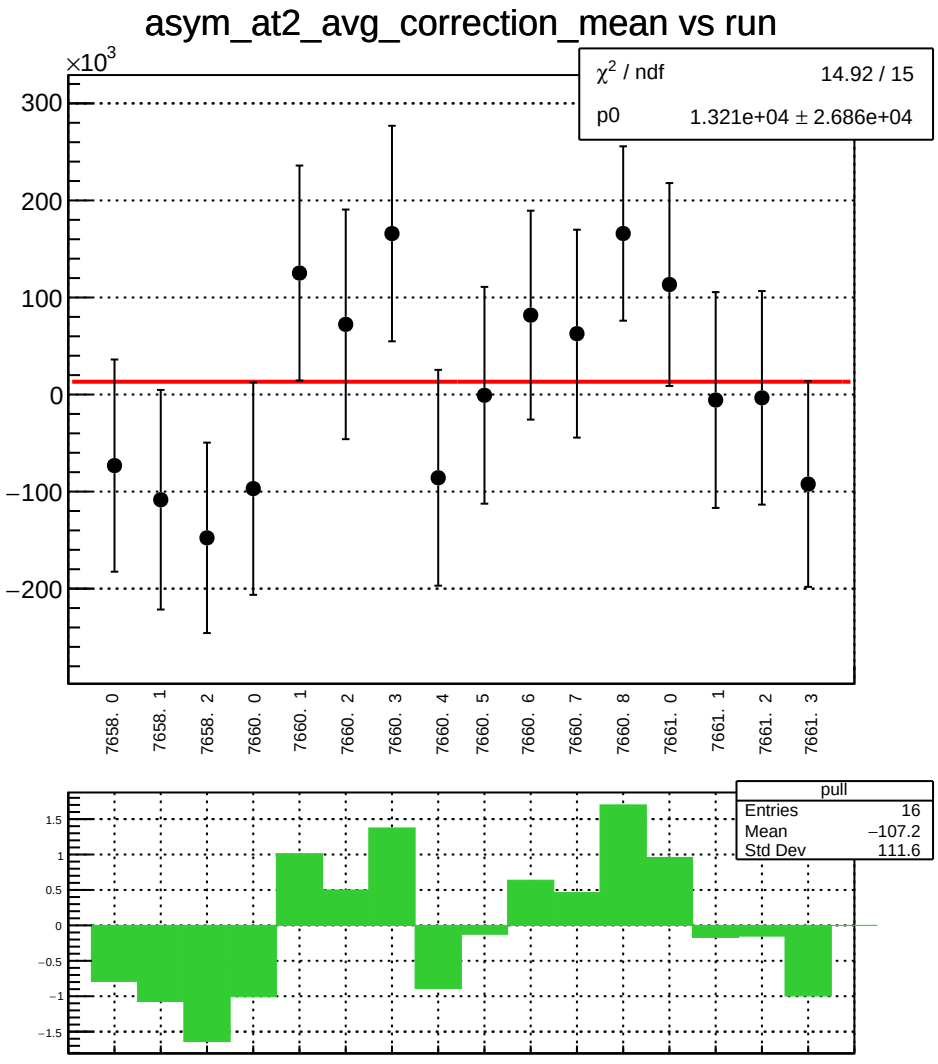

pull1D
Entries 16
Mean 0.00745
Std Dev 0.8111
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

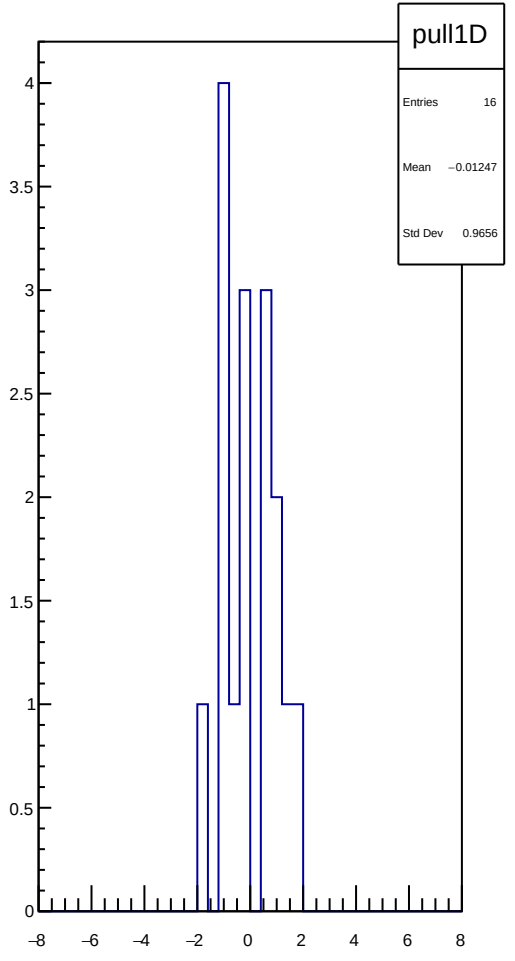

asym_at1_dd_rms vs run
χ² / ndf 224.2 / 15
p0 2472 ± 4.497
2600
2550
2500
2450
2400
2350
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

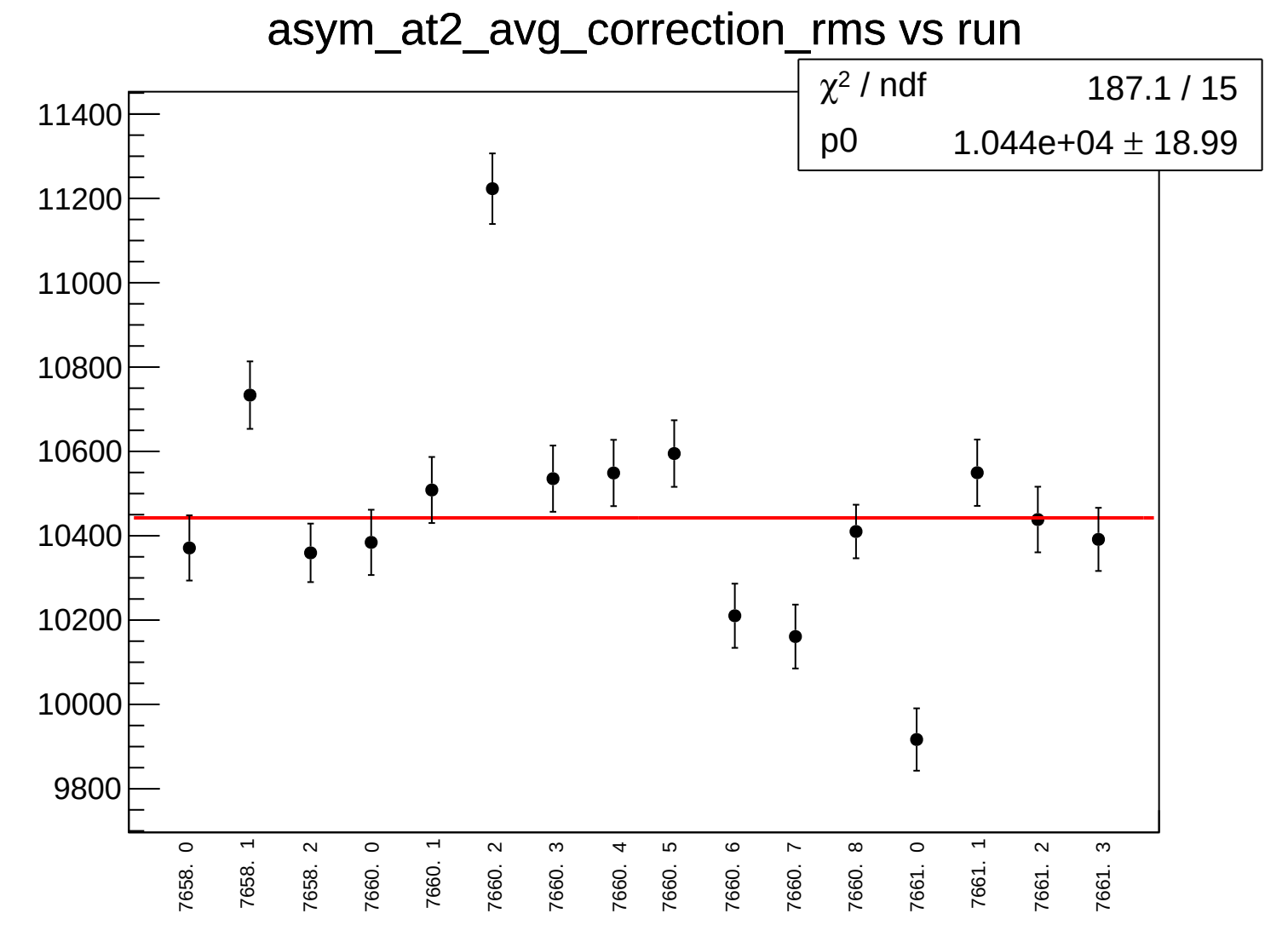

dit_asym_at2_avg_mean vs run
χ² / ndf 10.13 / 15
p0 −675.8 ± 4924
40000
20000
0
−20000
−40000
−60000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −223.6
Std Dev 232.9
1
0.5
0
−0.5
−1
−1.5

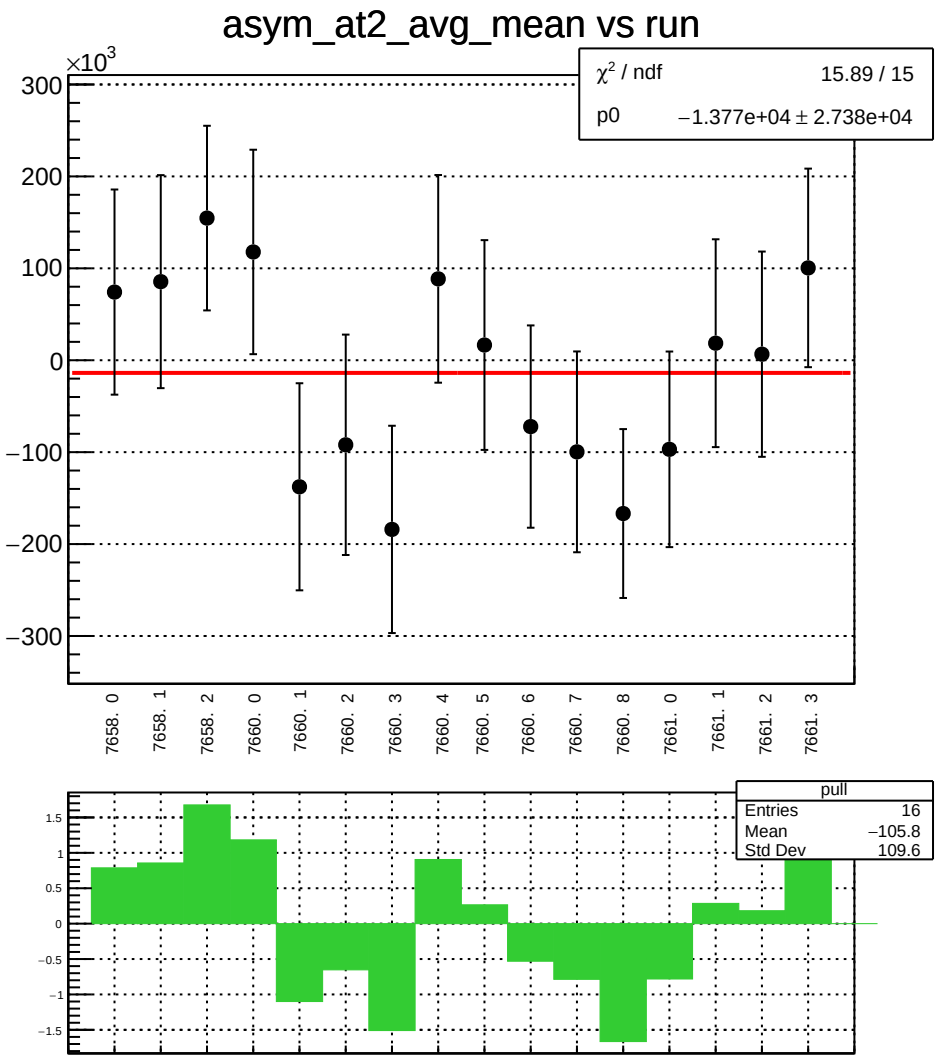

pull1D
Entries 16
Mean −0.003791
Std Dev 0.7956
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

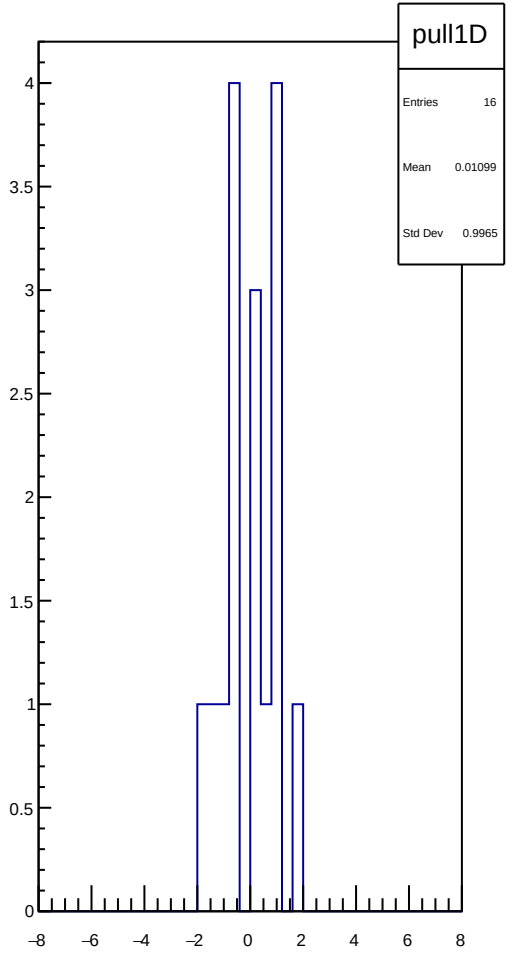

dit_asym_at2_avg_rms vs run
χ² / ndf 16.63 / 15
p0 1914 ± 3.482
1960
1940
1920
1900
1880
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

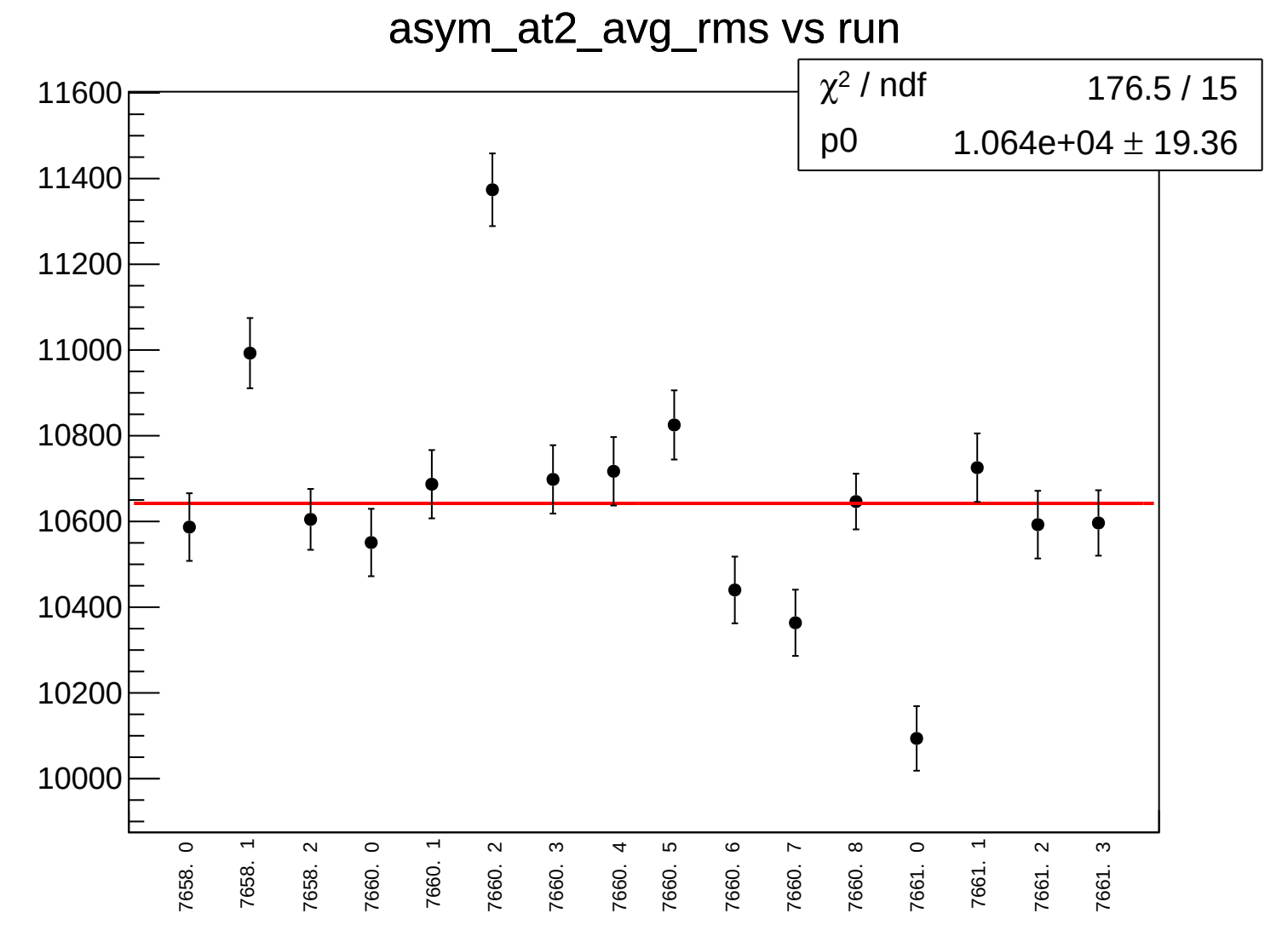

asym_at2_avg_correction_mean vs run
×10^3
χ² / ndf 14.92 / 15
p0 1.321e+04 ± 2.686e+04
300
200
100
0
−100
−200
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −107.2
Std Dev 111.6
1.5
1
0.5
0
−0.5
−1
−1.5

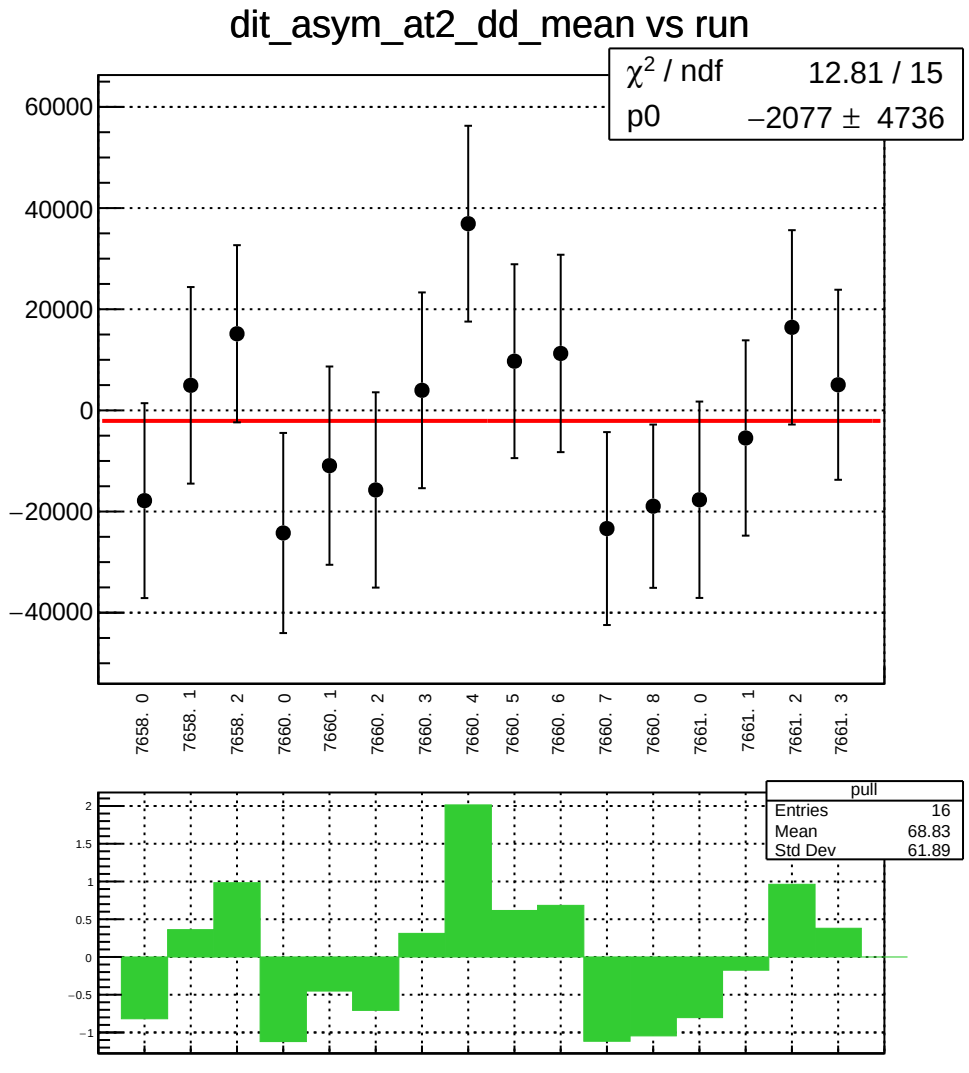

pull1D
Entries 16
Mean −0.01247
Std Dev 0.9656
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

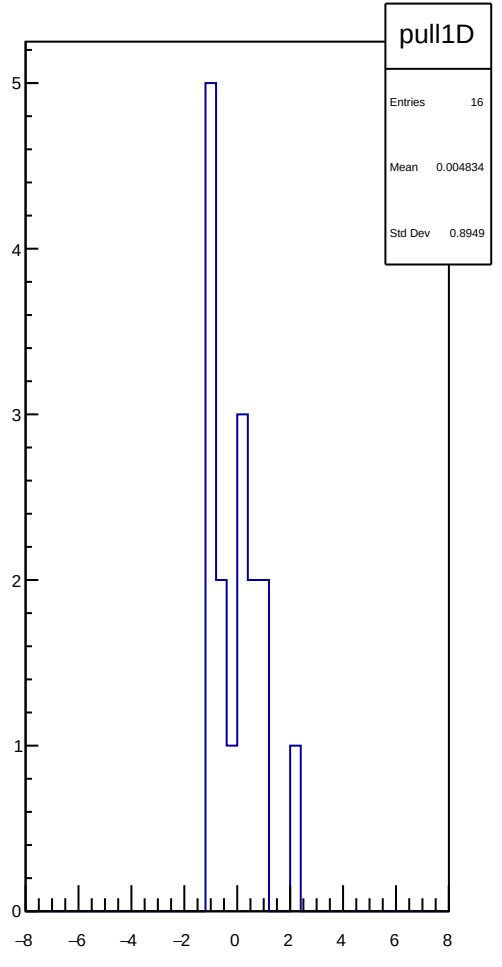

asym_at2_avg_correction_rms vs run
χ² / ndf 187.1 / 15
p0 1.044e+04 ± 18.99
11400
11200
11000
10800
10600
10400
10200
10000
9800
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

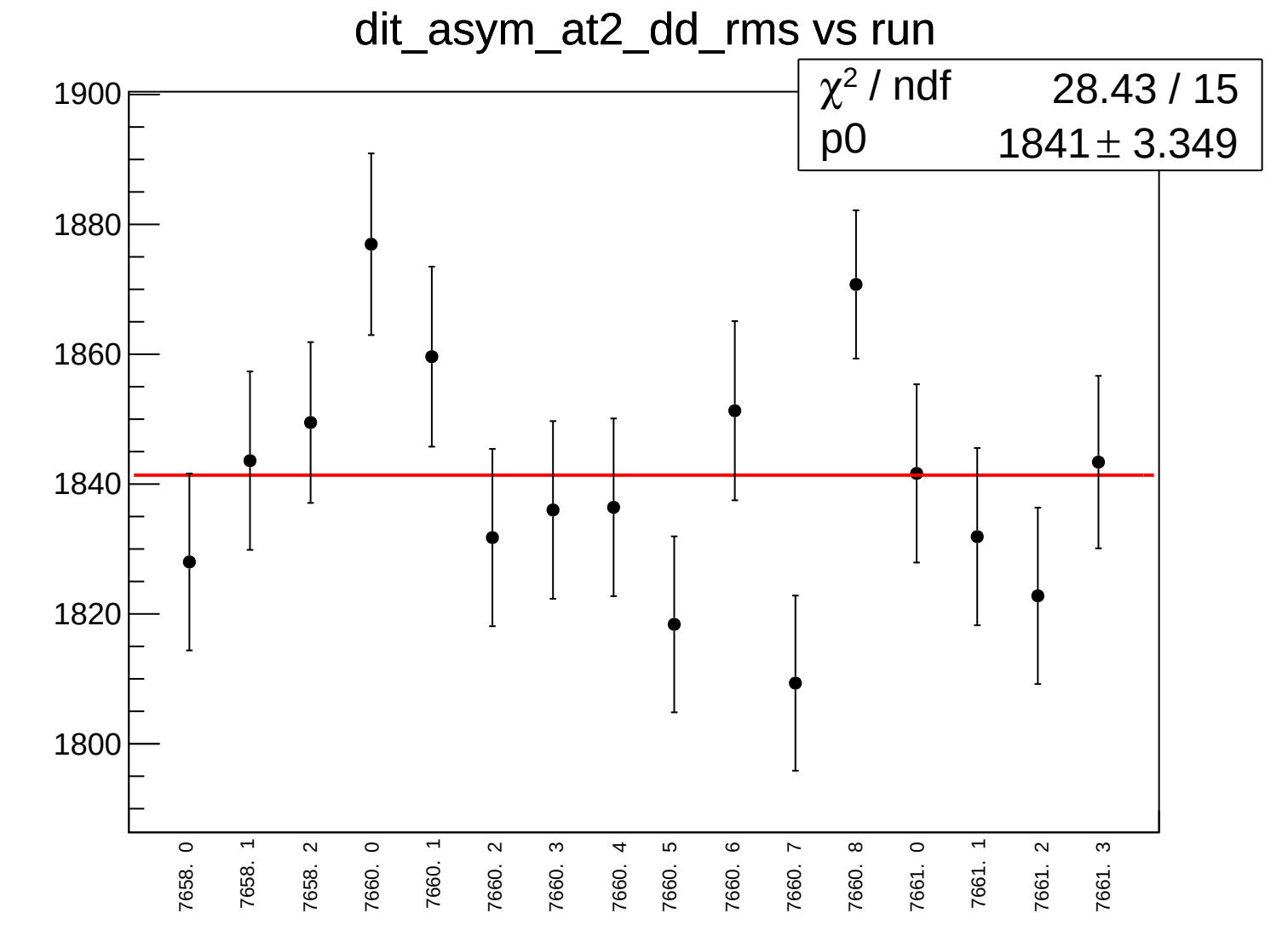

asym_at2_avg_mean vs run
×10^3
χ² / ndf 15.89 / 15
p0 −1.377e+04 ± 2.738e+04
300
200
100
0
−100
−200
−300
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −105.8
Std Dev 109.6
1.5
1
0.5
0
−0.5
−1
−1.5

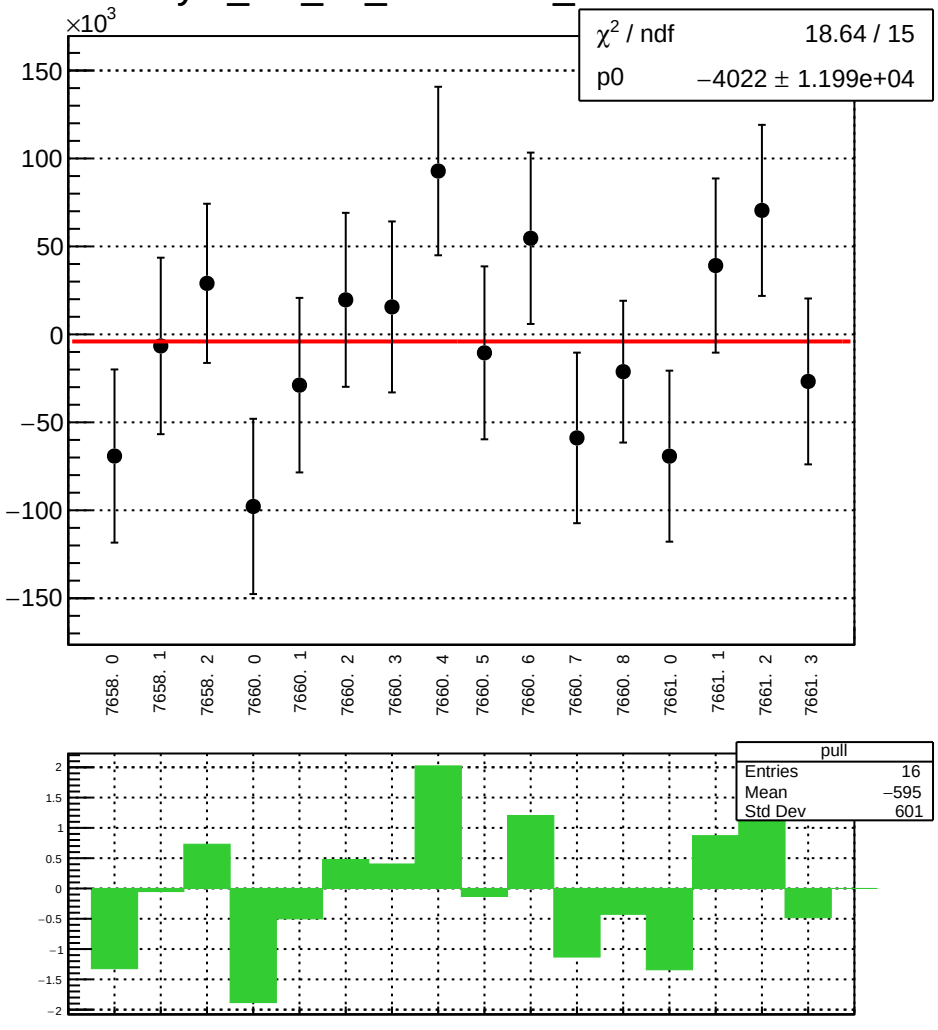

pull1D
Entries 16
Mean 0.01099
Std Dev 0.9965
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

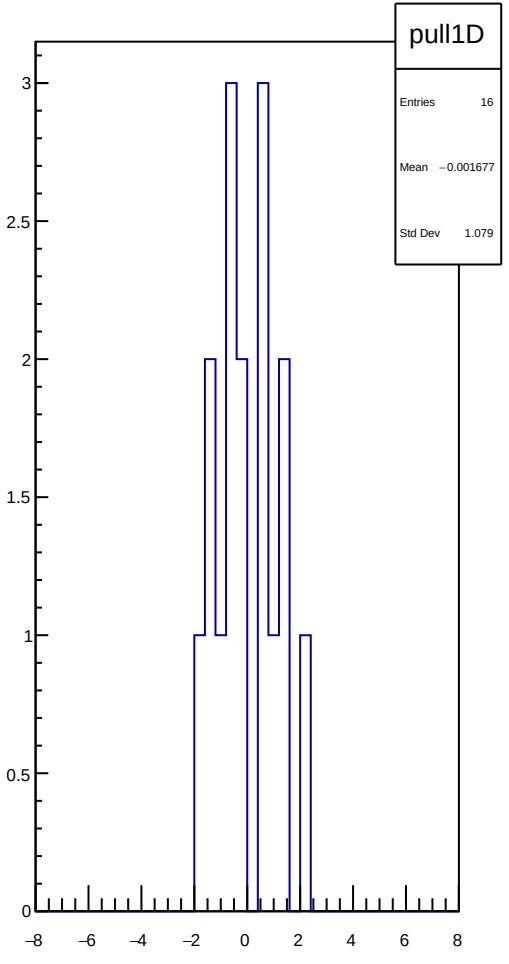

asym_at2_avg_rms vs run
χ² / ndf 176.5 / 15
p0 1.064e+04 ± 19.36
11600
11400
11200
11000
10800
10600
10400
10200
10000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

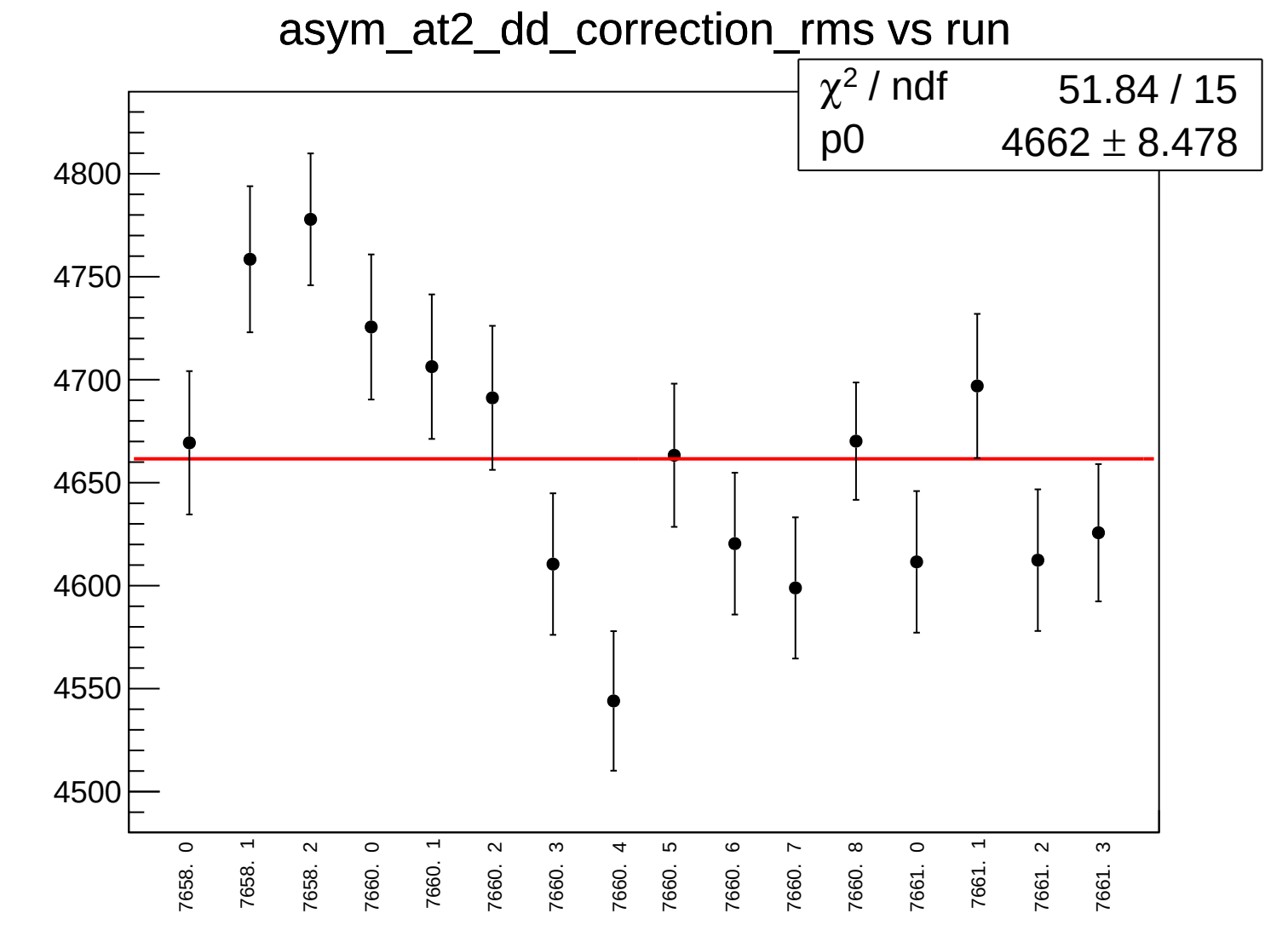

dit_asym_at2_dd_mean vs run
χ² / ndf 12.81 / 15
p0 −2077 ± 4736
60000
40000
20000
0
−20000
−40000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 68.83
Std Dev 61.89
2
1.5
1
0.5
0
−0.5
−1

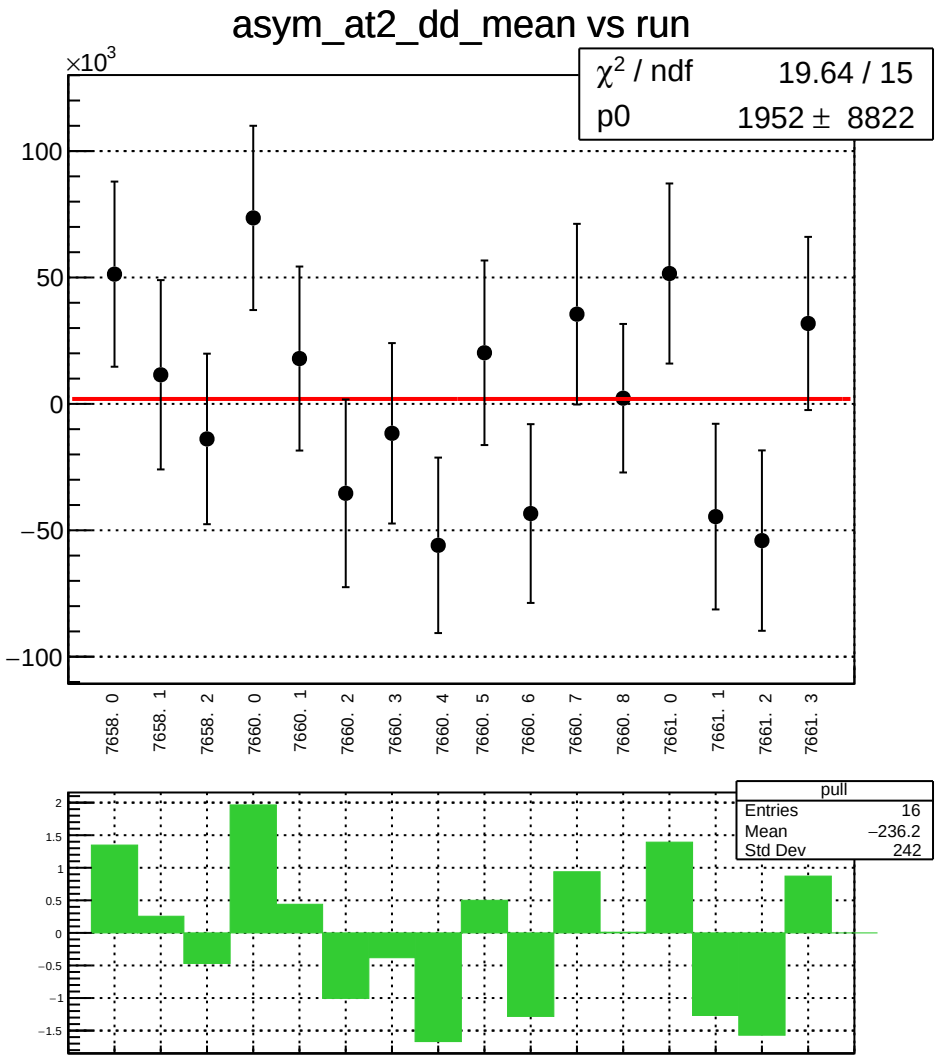

pull1D
Entries 16
Mean 0.004834
Std Dev 0.8949
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

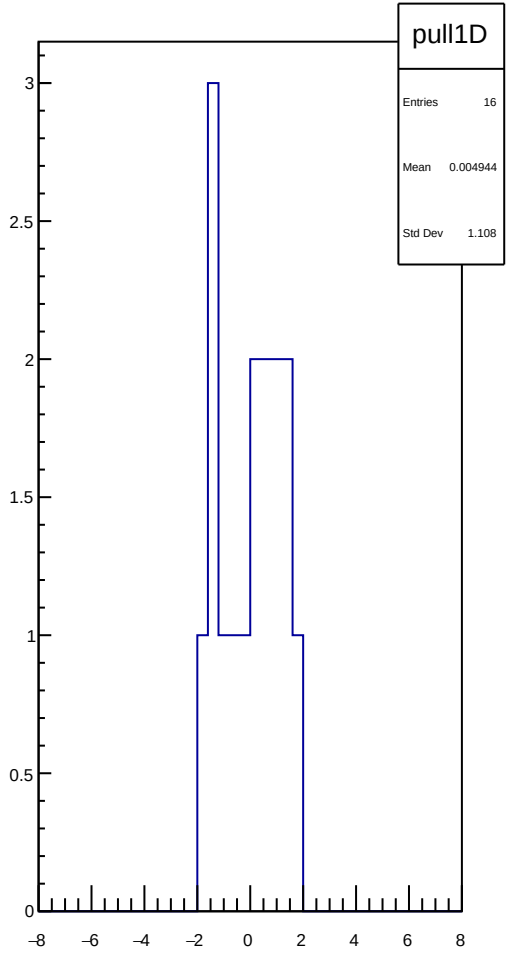

dit_asym_at2_dd_rms vs run
χ² / ndf 28.43 / 15
p0 1841 ± 3.349
1900
1880
1860
1840
1820
1800
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

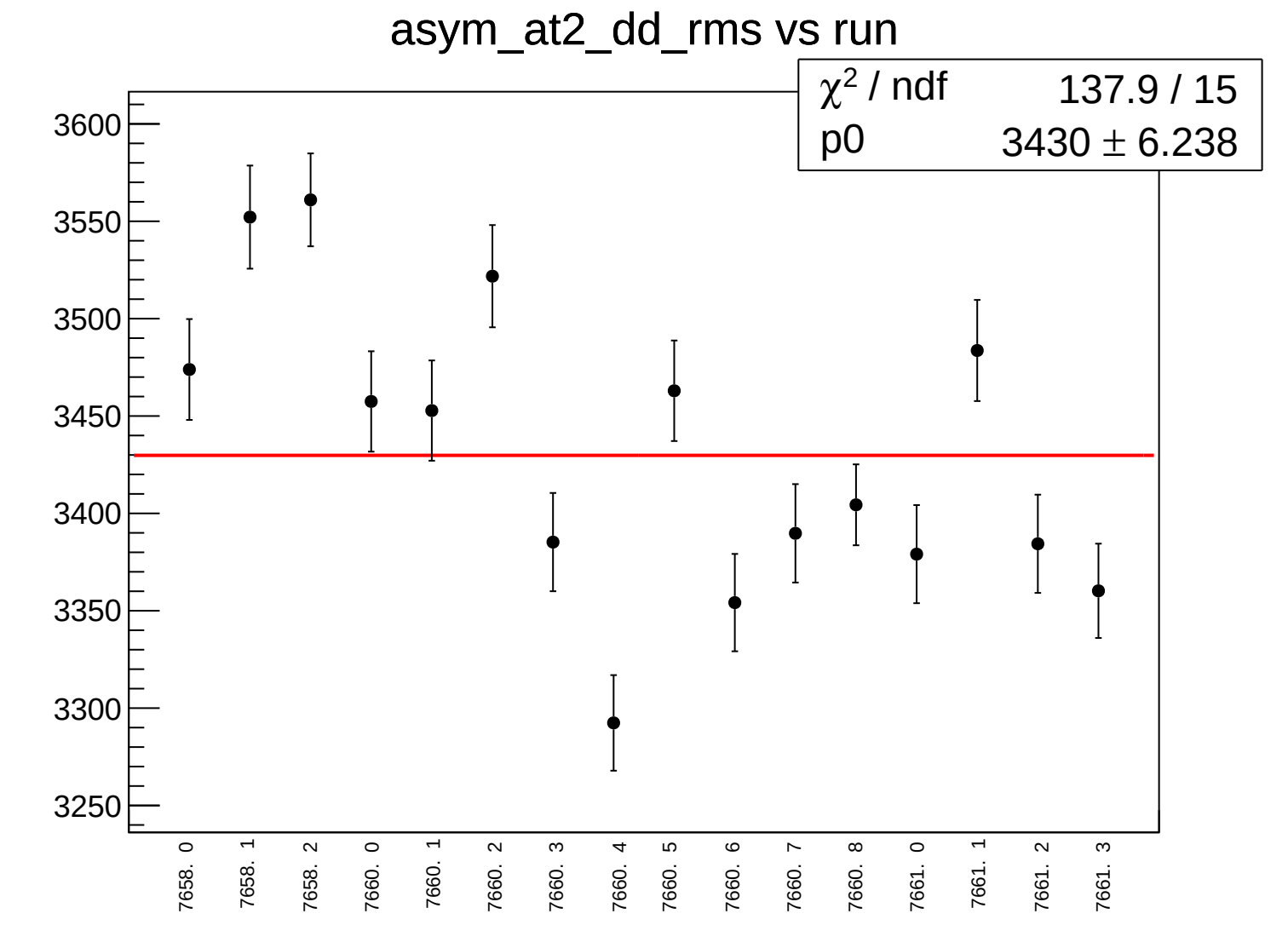

asym_at2_dd_correction_mean vs run
×10^3
χ² / ndf 18.64 / 15
p0 −4022 ± 1.199e+04
150
100
50
0
−50
−100
−150
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −595
Std Dev 601
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

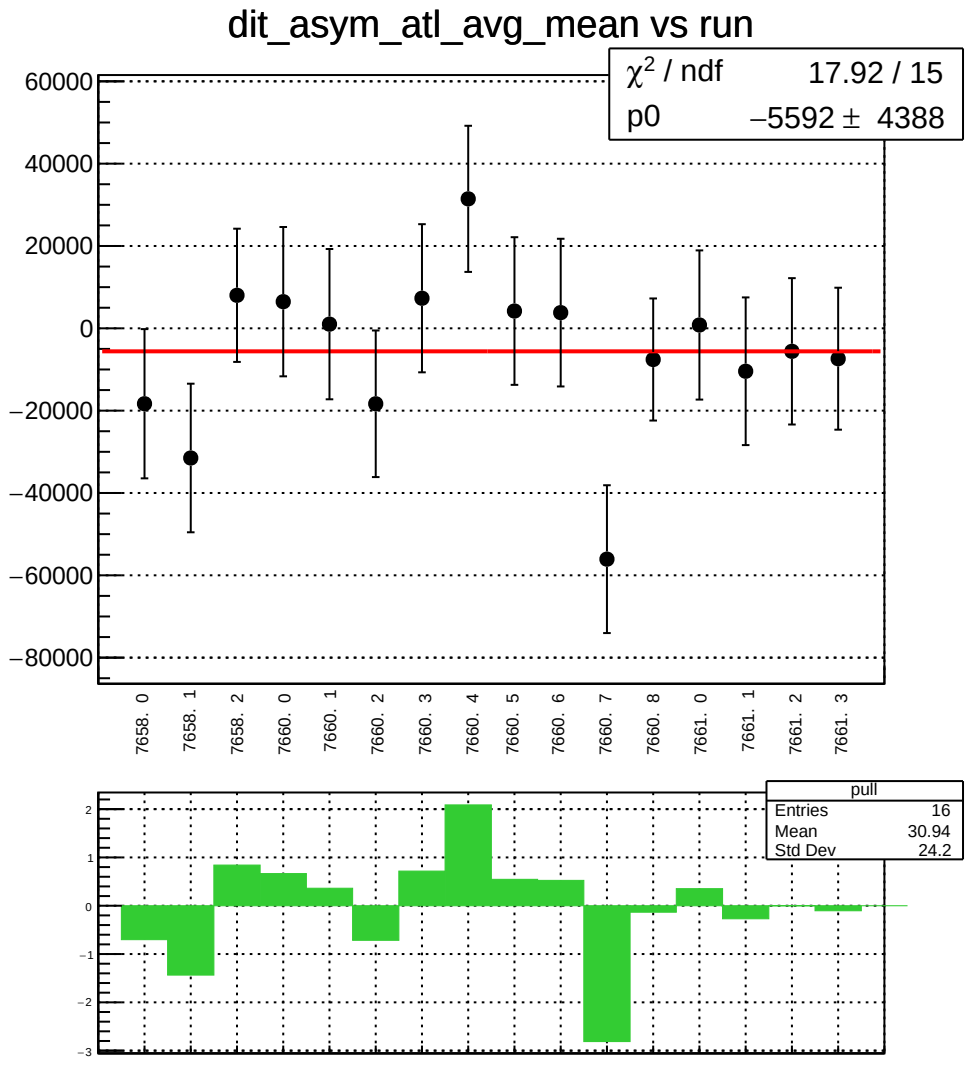

pull1D
Entries 16
Mean −0.001677
Std Dev 1.079
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

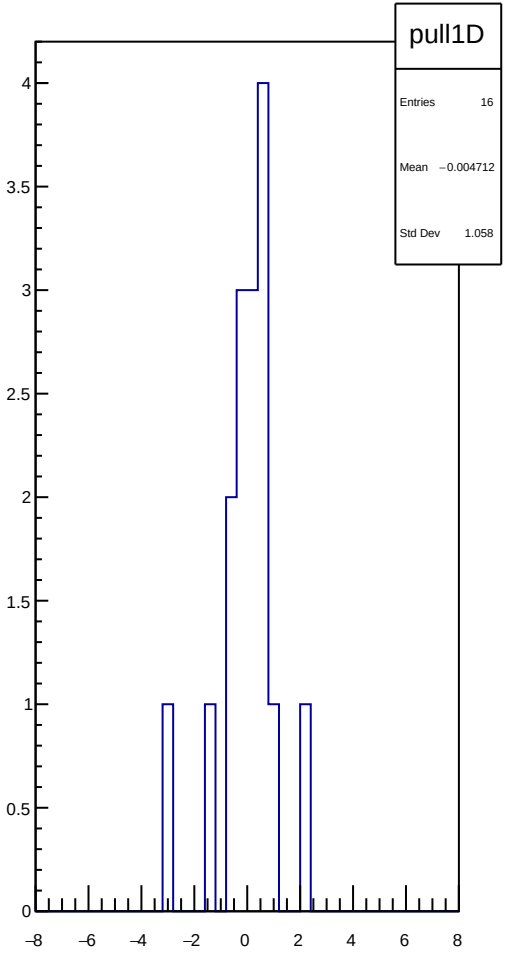

asym_at2_dd_correction_rms vs run
χ² / ndf 51.84 / 15
p0 4662 ± 8.478
4800
4750
4700
4650
4600
4550
4500
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

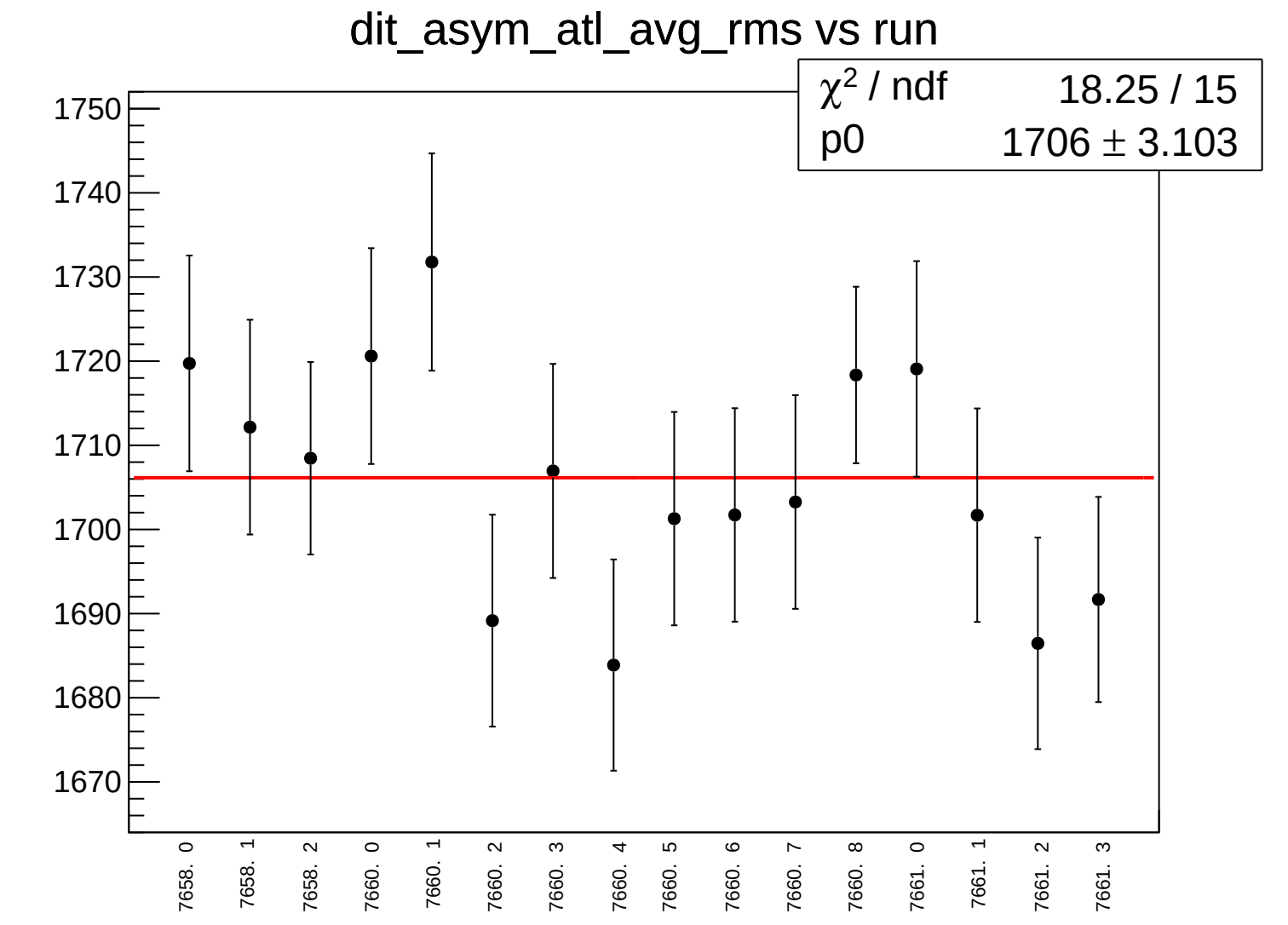

asym_at2_dd_mean vs run
×10^3
χ^2 / ndf 19.64 / 15
p0 1952 ± 8822
100
50
0
−50
−100
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −236.2
Std Dev 242
2
1.5
1
0.5
0
−0.5
−1
−1.5

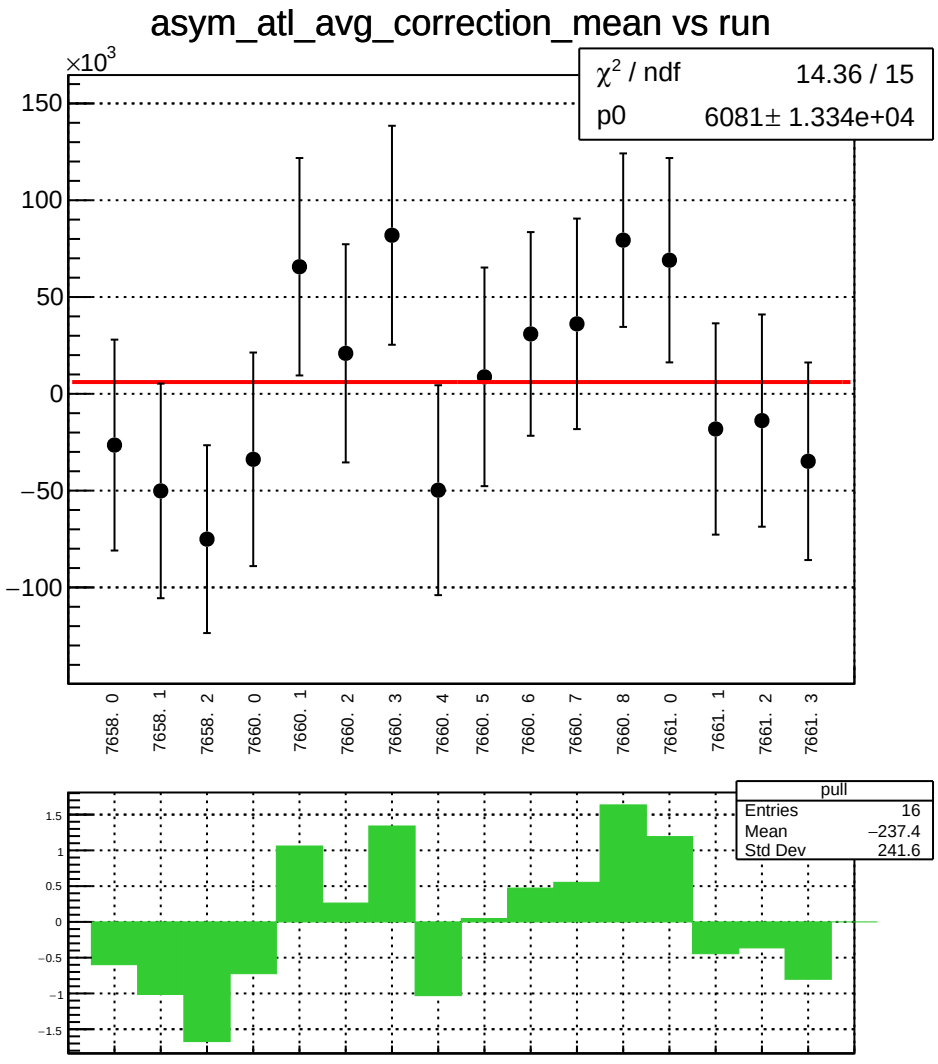

pull1D
Entries 16
Mean 0.004944
Std Dev 1.108
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

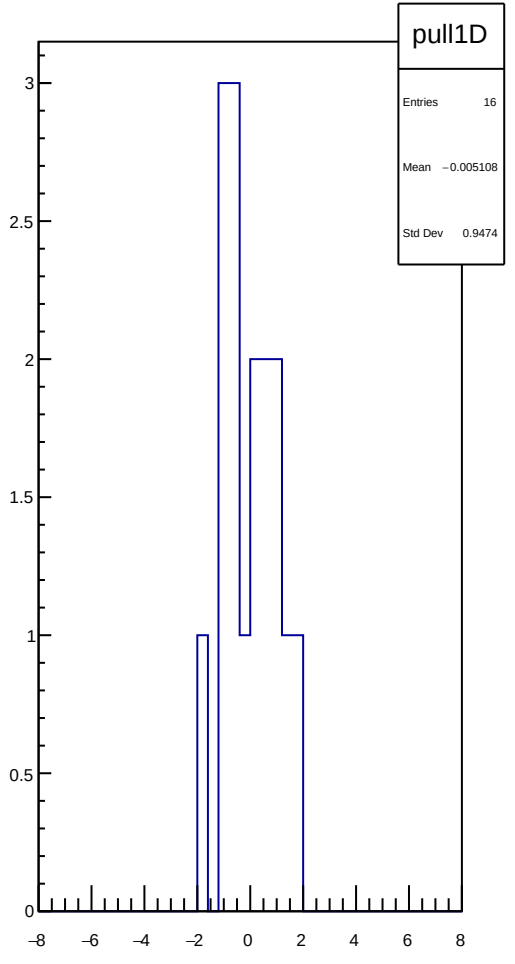

asym_at2_dd_rms vs run
χ² / ndf 137.9 / 15
p0 3430 ± 6.238
3600
3550
3500
3450
3400
3350
3300
3250
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

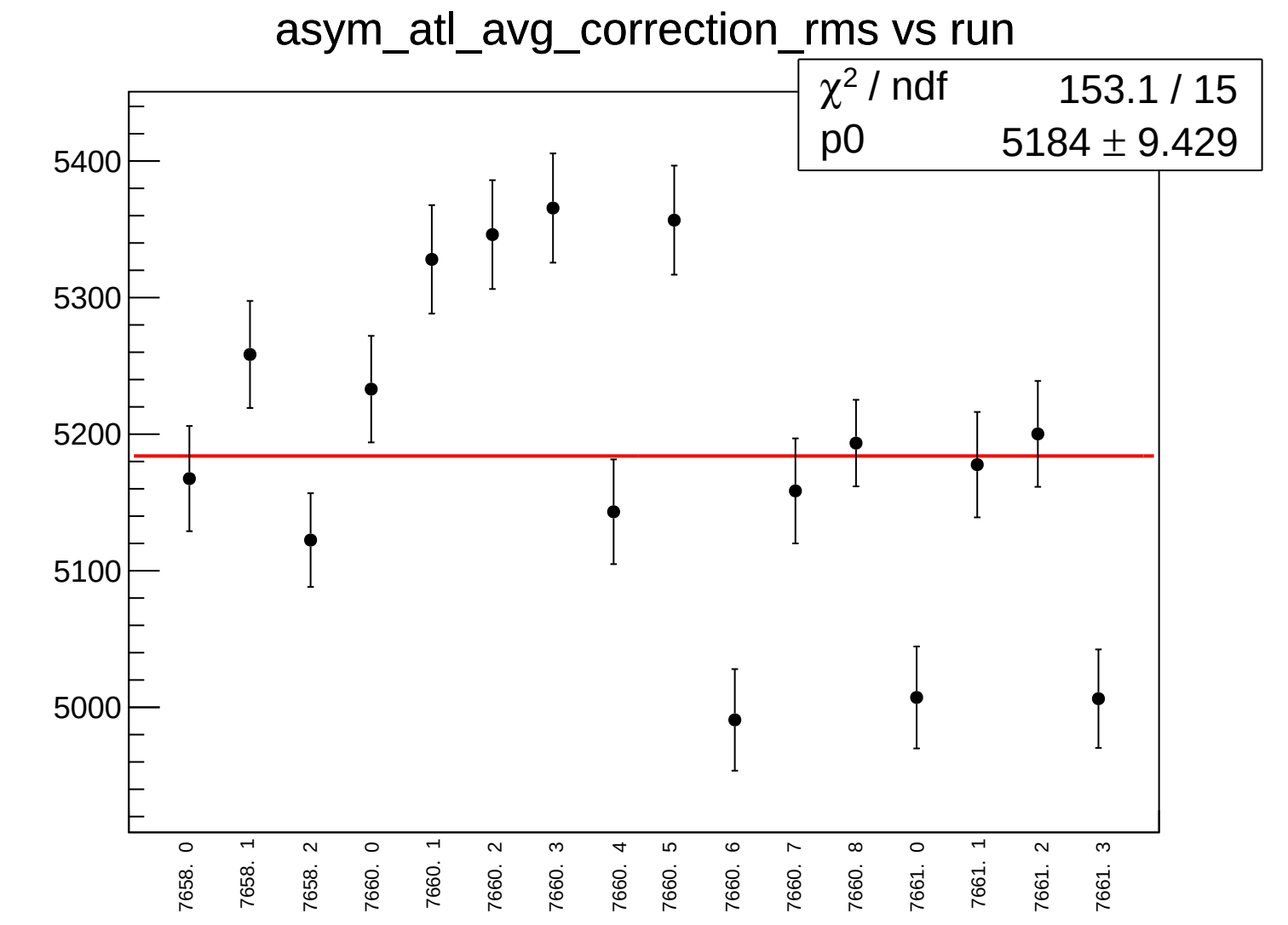

dit_asym_atl_avg_mean vs run
χ² / ndf 17.92 / 15
p0 −5592 ± 4388
60000
40000
20000
0
−20000
−40000
−60000
−80000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 30.94
Std Dev 24.2
2
1
0
−1
−2
−3

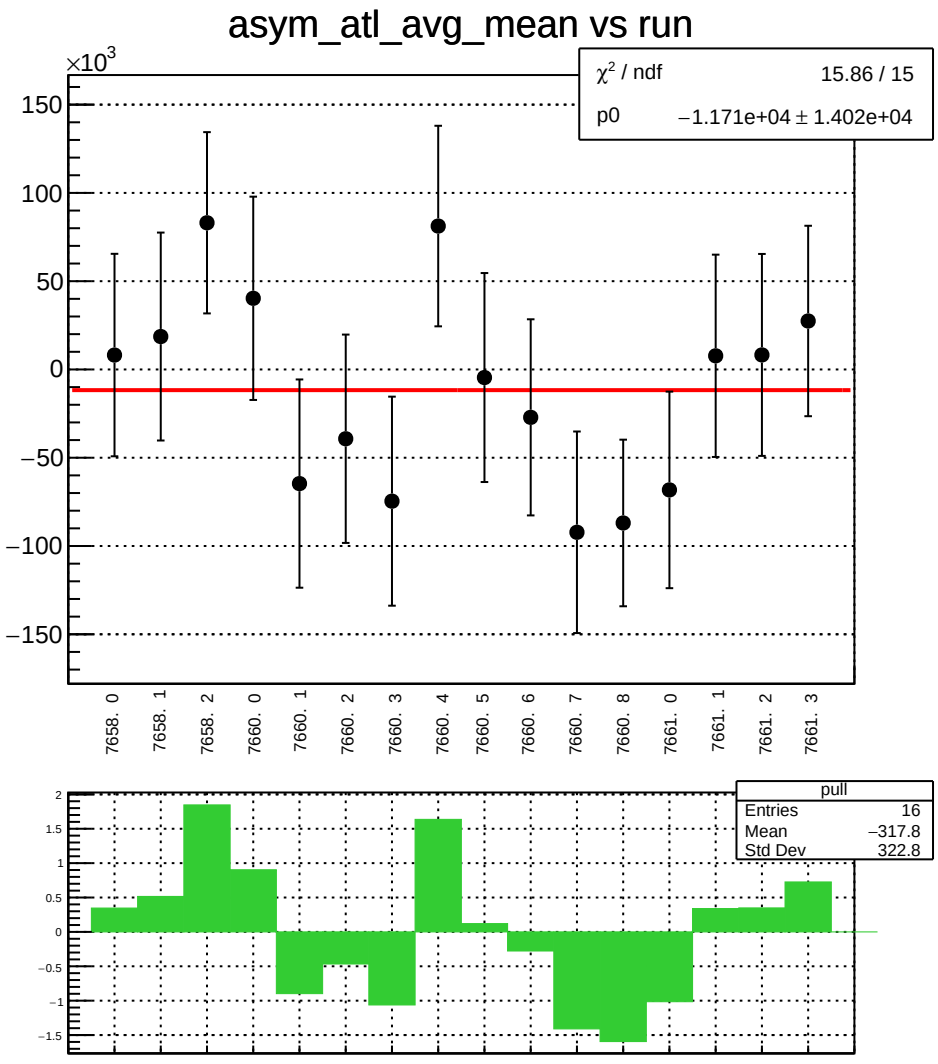

pull1D
Entries 16
Mean −0.004712
Std Dev 1.058
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

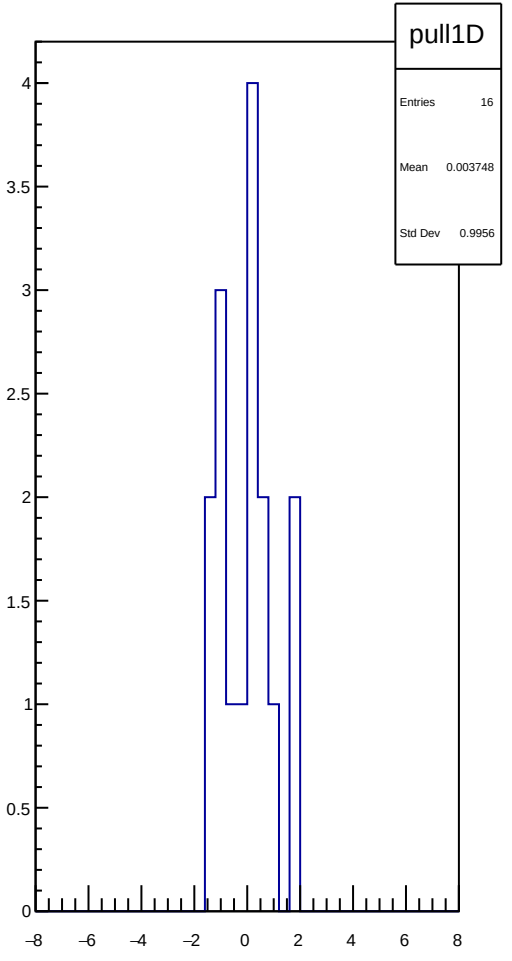

dit_asym_atl_avg_rms vs run
χ² / ndf 18.25 / 15
p0 1706 ± 3.103
1750
1740
1730
1720
1710
1700
1690
1680
1670
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

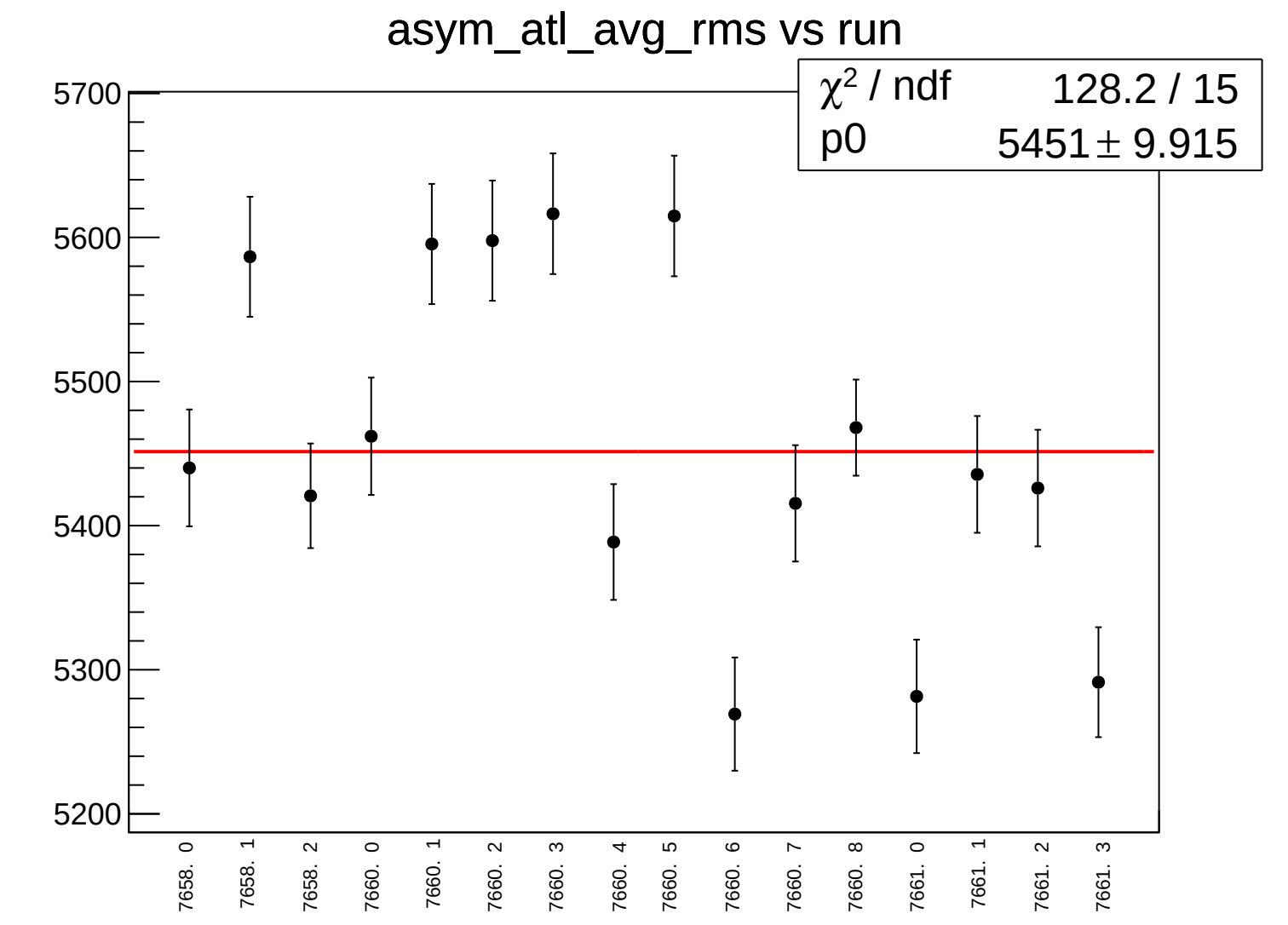

asym_atl_avg_correction_mean vs run
×10^3
χ² / ndf 14.36 / 15
p0 6081± 1.334e+04
150
100
50
0
−50
−100
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −237.4
Std Dev 241.6
1.5
1
0.5
0
−0.5
−1
−1.5

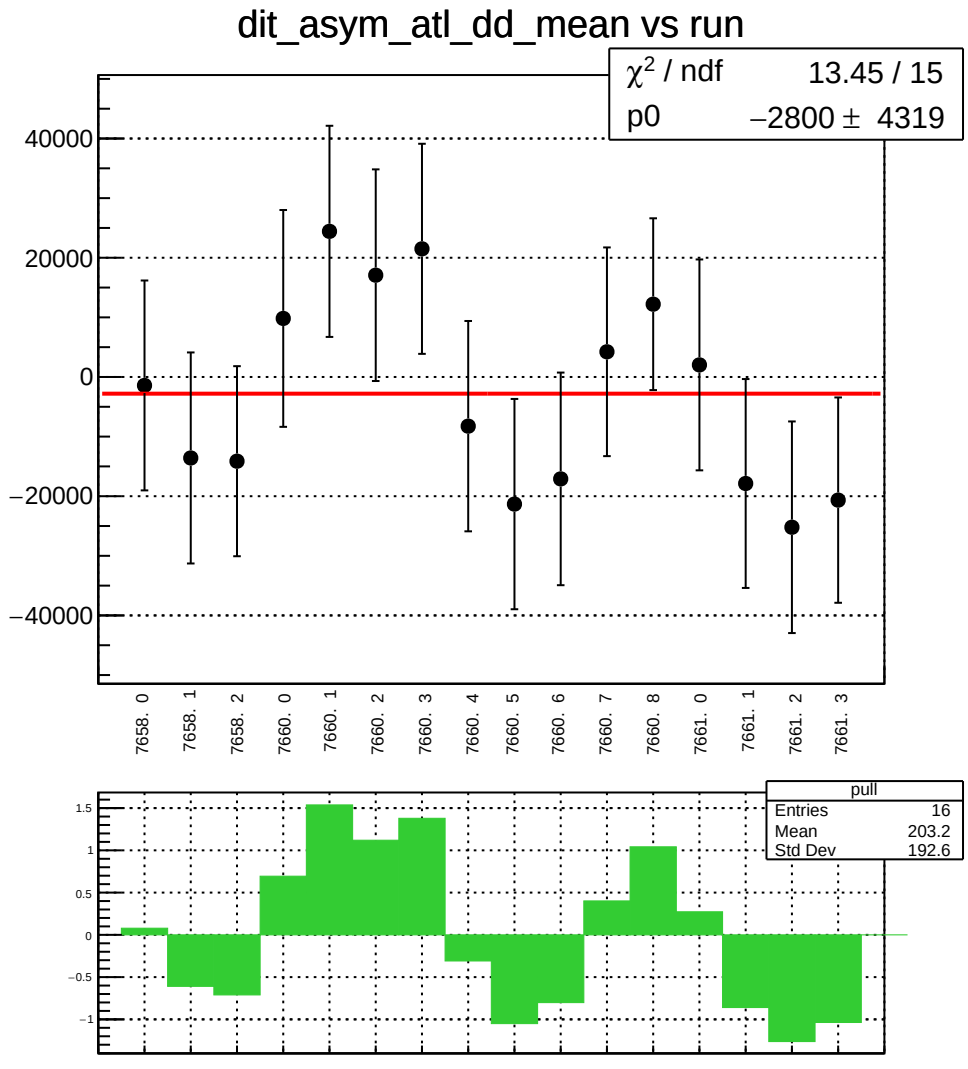

pull1D
Entries 16
Mean −0.005108
Std Dev 0.9474
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

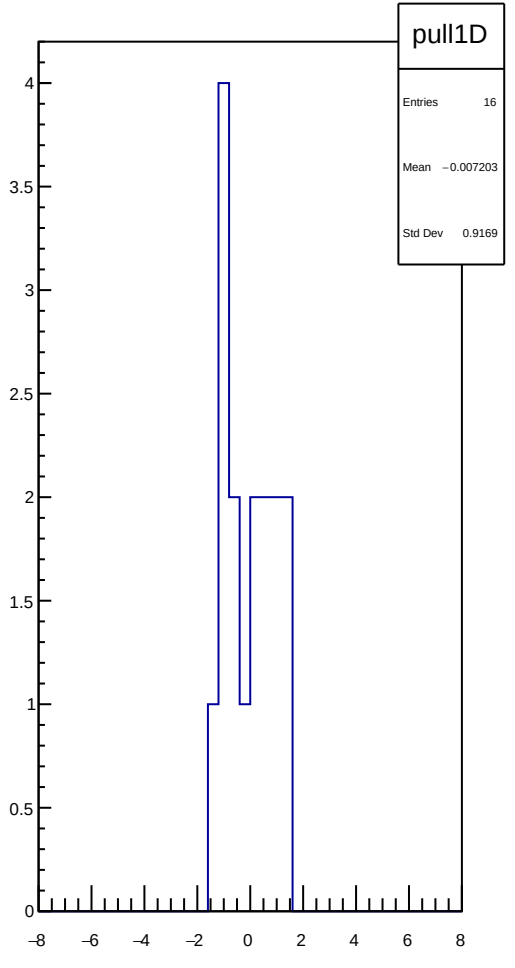

asym_atl_avg_correction_rms vs run
χ² / ndf 153.1 / 15
p0 5184 ± 9.429
5400
5300
5200
5100
5000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

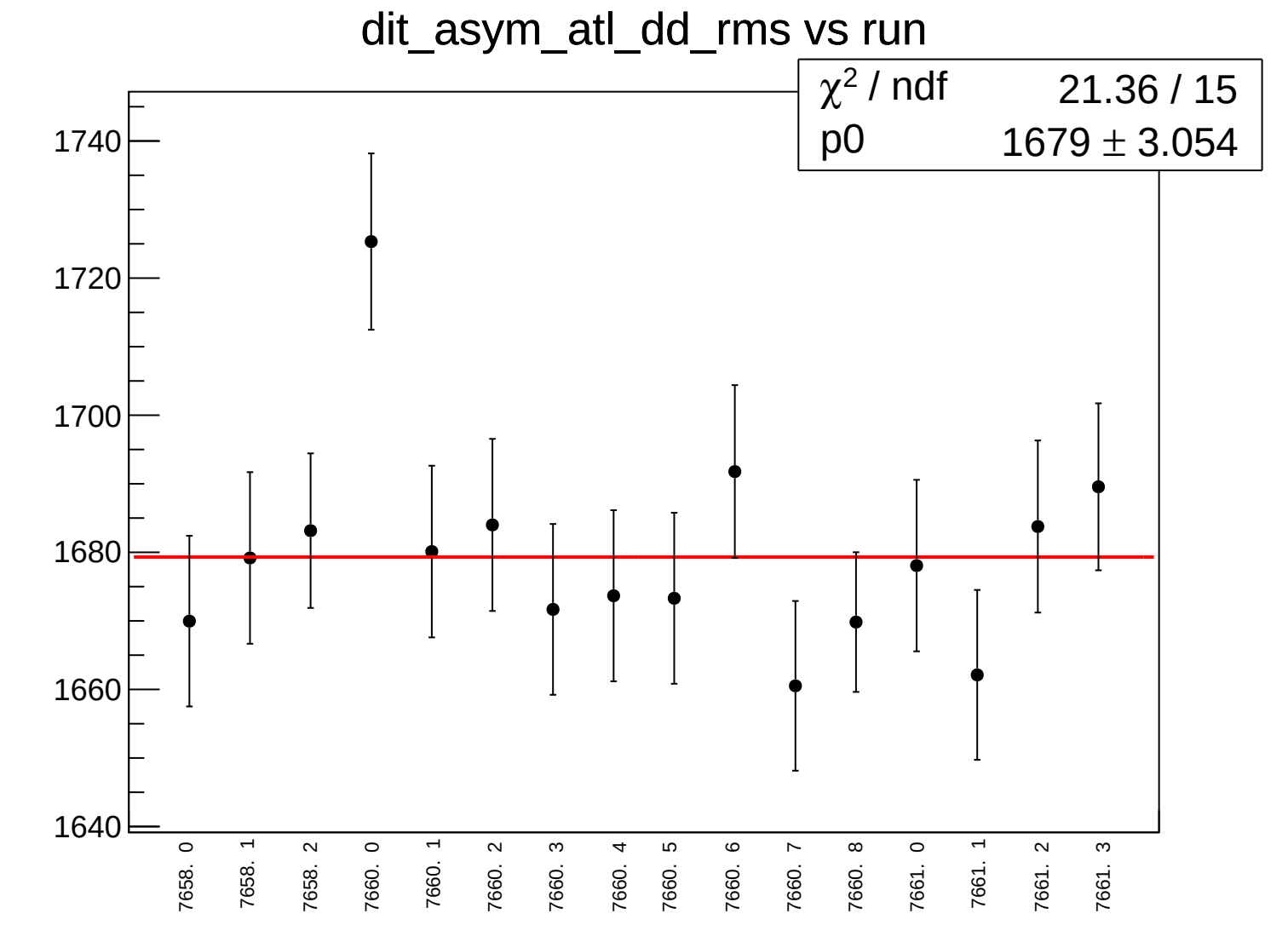

asym_atl_avg_mean vs run
×10^3
χ² / ndf 15.86 / 15
p0 −1.171e+04 ± 1.402e+04
150
100
50
0
−50
−100
−150
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −317.8
Std Dev 322.8
2
1.5
1
0.5
0
−0.5
−1
−1.5

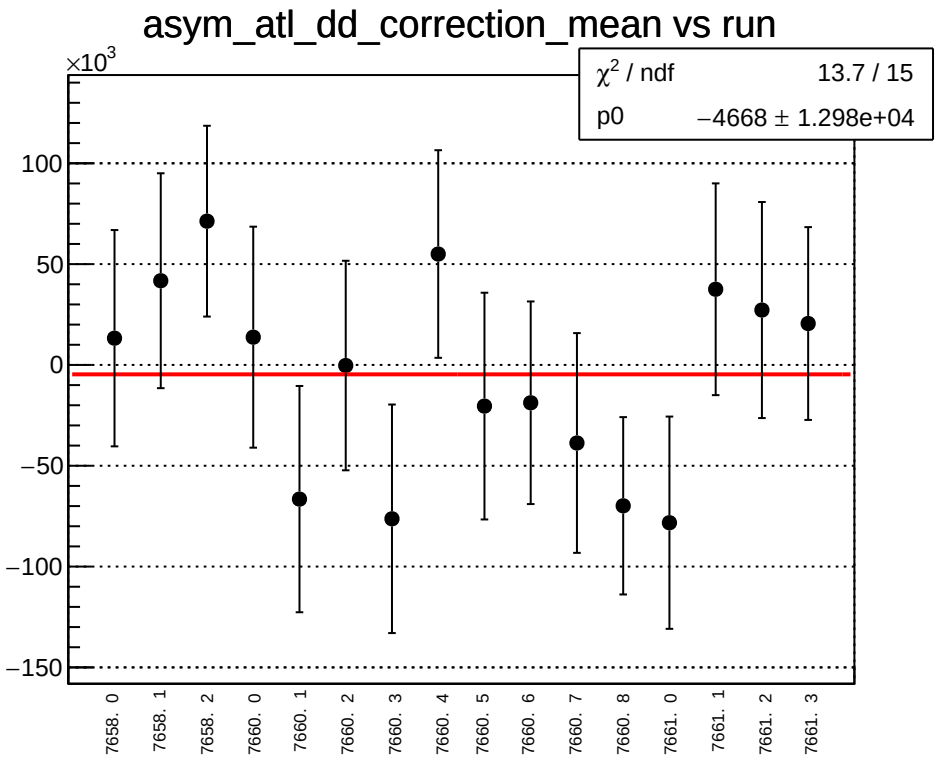

pull1D
Entries 16
Mean 0.003748
Std Dev 0.9956
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

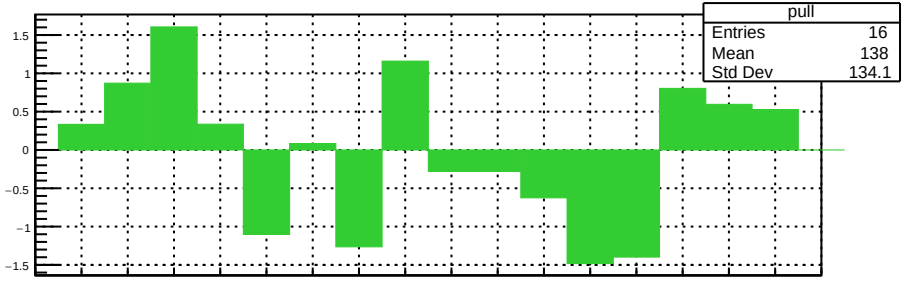

asym_atl_avg_rms vs run
χ² / ndf 128.2 / 15
p0 5451 ± 9.915
5700
5600
5500
5400
5300
5200
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

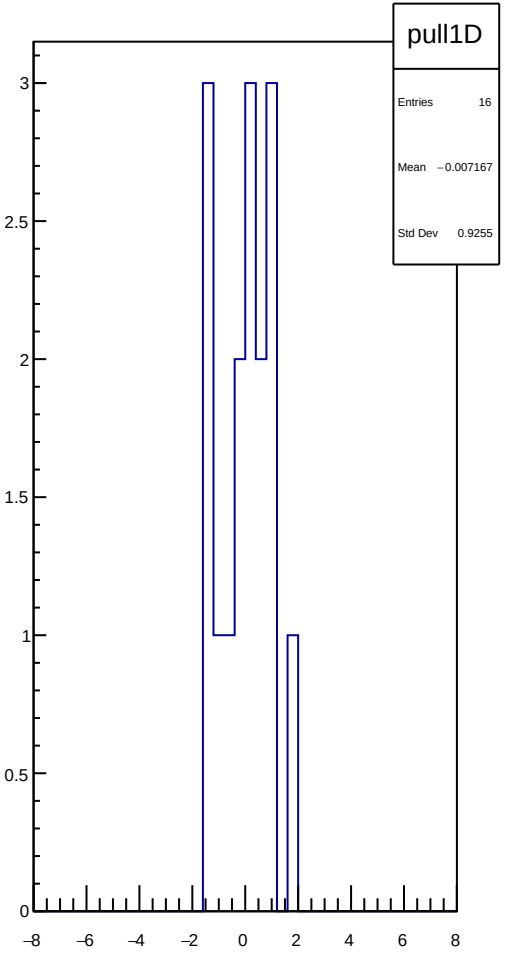

dit_asym_atl_dd_mean vs run
χ² / ndf 13.45 / 15
p0 −2800 ± 4319
40000
20000
0
−20000
−40000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 203.2
Std Dev 192.6
1.5
1
0.5
0
−0.5
−1

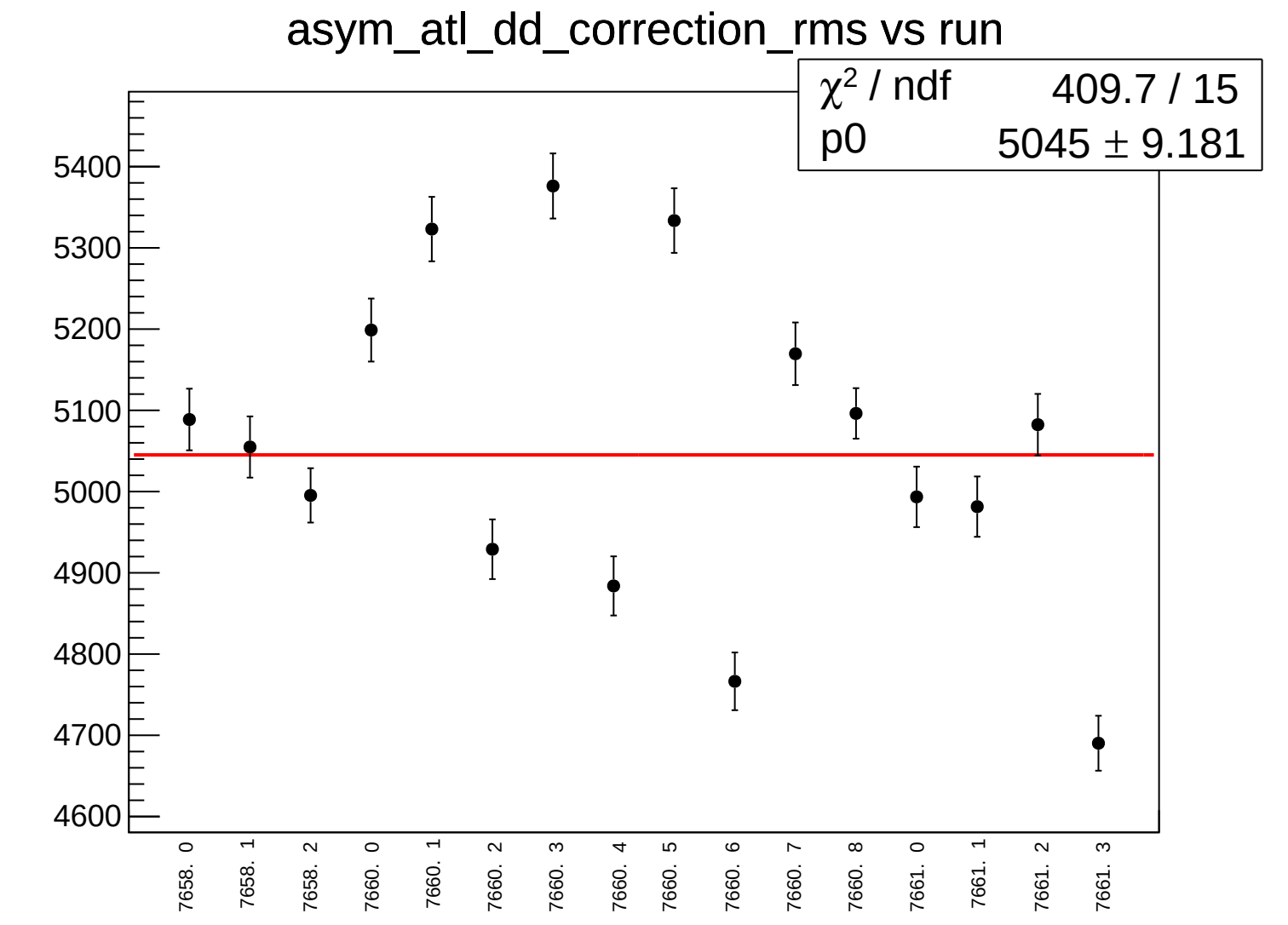

pull1D
Entries 16
Mean −0.007203
Std Dev 0.9169
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

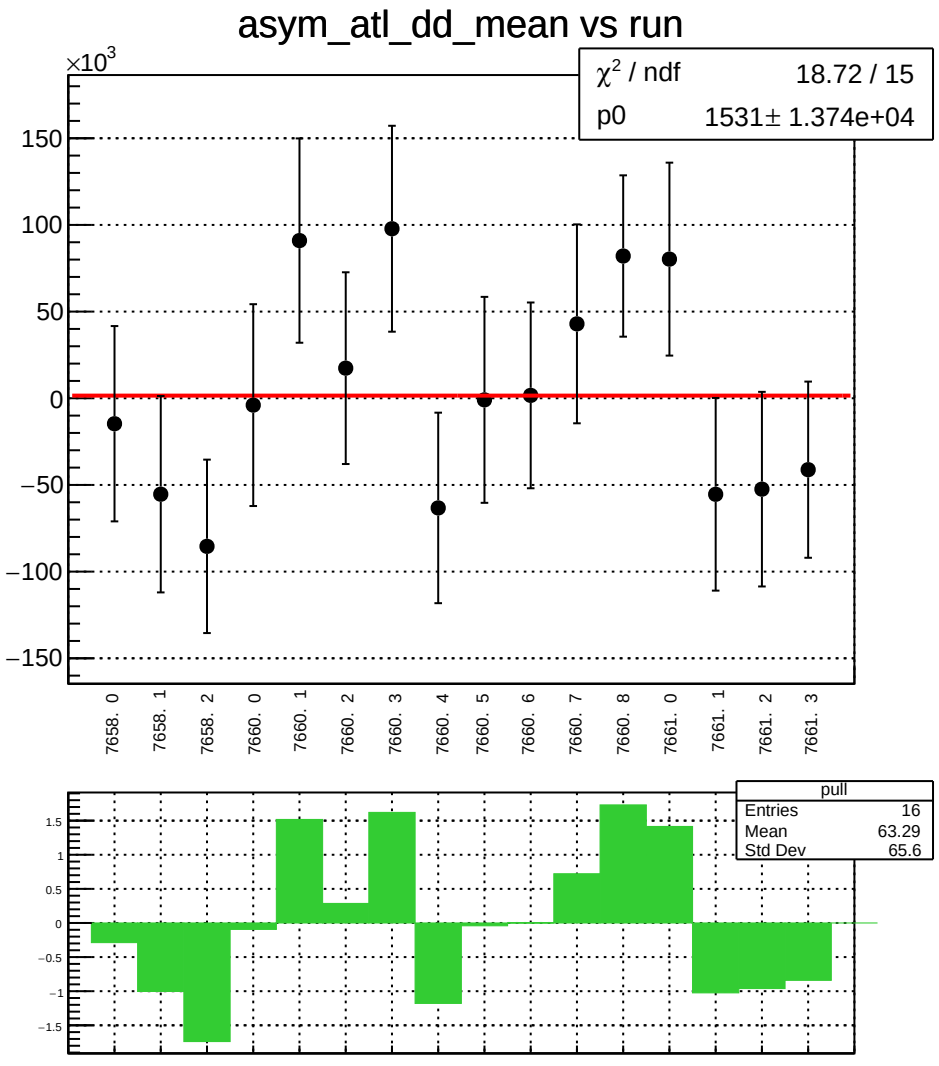

dit_asym_atl_dd_rms vs run
χ² / ndf 21.36 / 15
p0 1679 ± 3.054
1740
1720
1700
1680
1660
1640
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

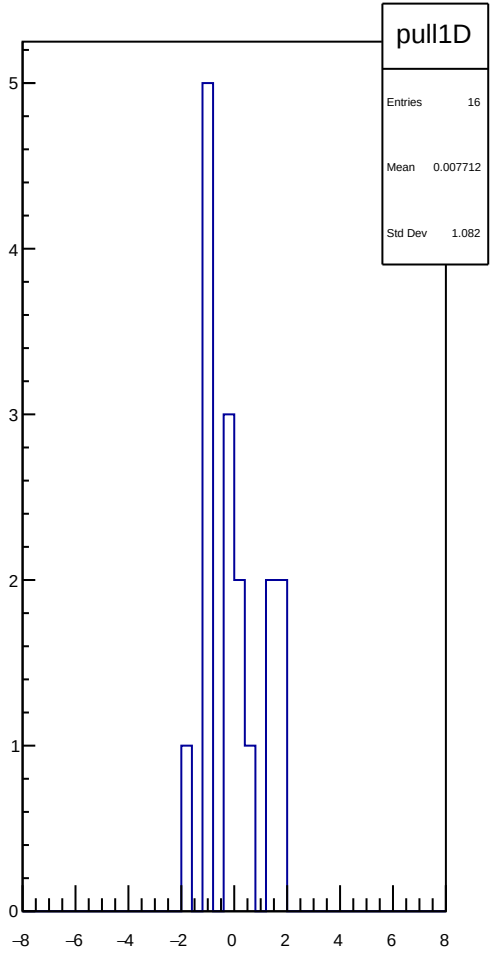

asym_atl_dd_correction_mean vs run
×10^3
χ² / ndf 13.7 / 15
p0 −4668 ± 1.298e+04
100
50
0
−50
−100
−150
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

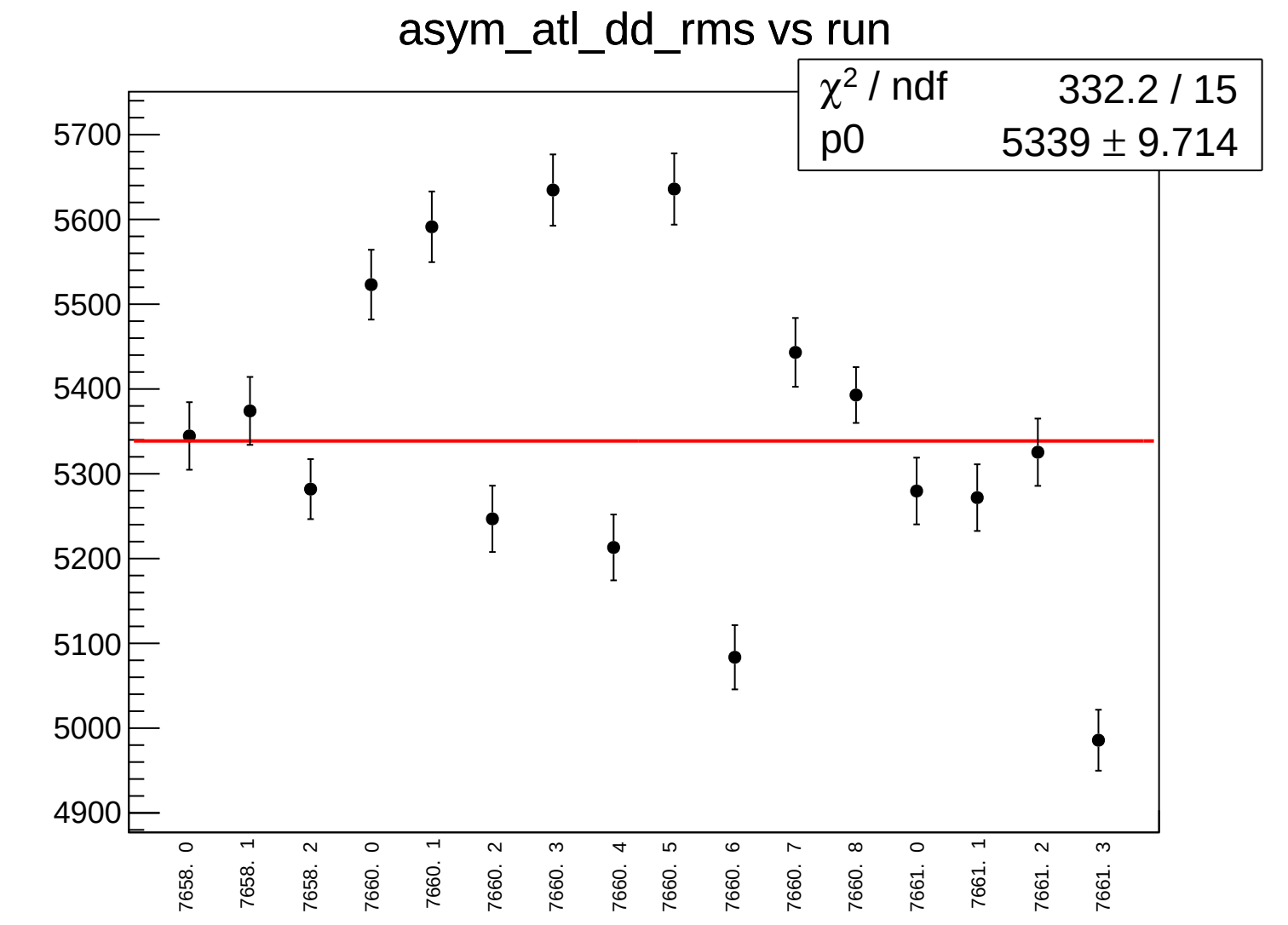

pull
Entries 16
Mean 138
Std Dev 134.1
1.5
1
0.5
0
−0.5
−1
−1.5

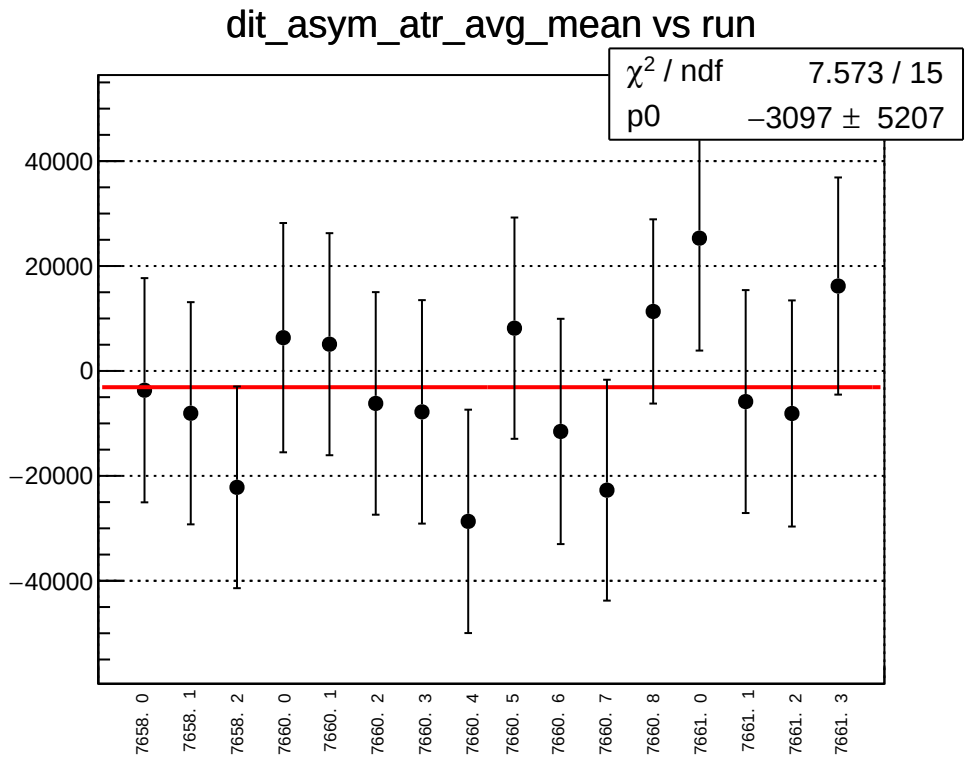

pull1D
Entries 16
Mean −0.007167
Std Dev 0.9255
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

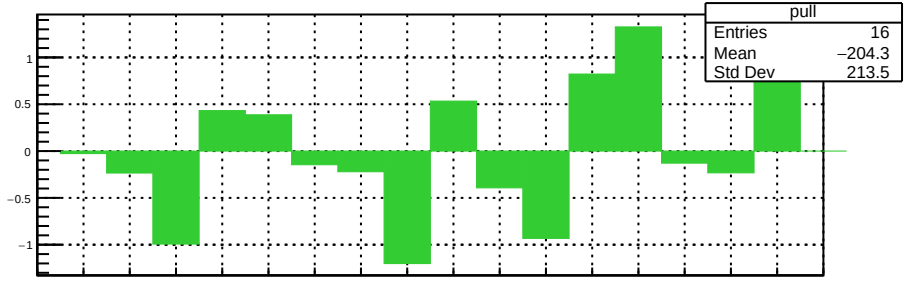

asym_atl_dd_correction_rms vs run
χ² / ndf 409.7 / 15
p0 5045 ± 9.181
5400
5300
5200
5100
5000
4900
4800
4700
4600
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

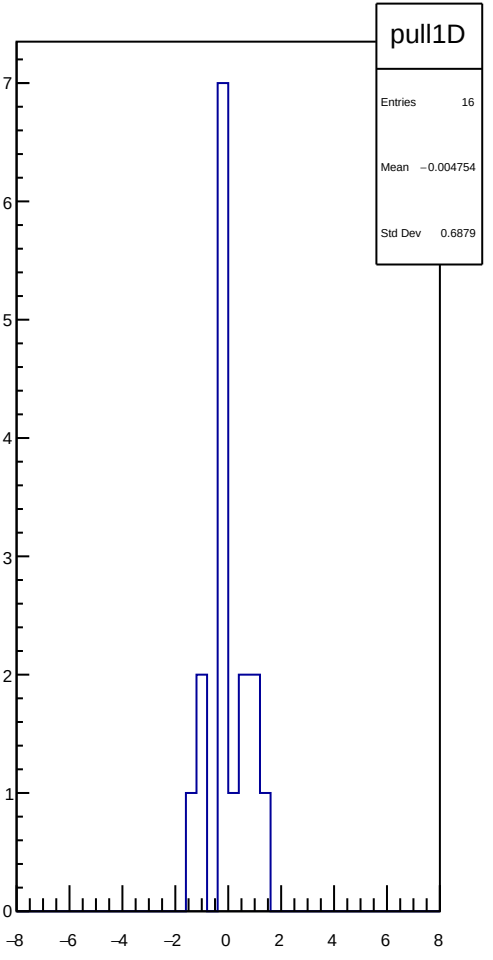

asym_atl_dd_mean vs run
×10^3
χ² / ndf 18.72 / 15
p0 1531± 1.374e+04
150
100
50
0
−50
−100
−150
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 63.29
Std Dev 65.6
1.5
1
0.5
0
−0.5
−1
−1.5

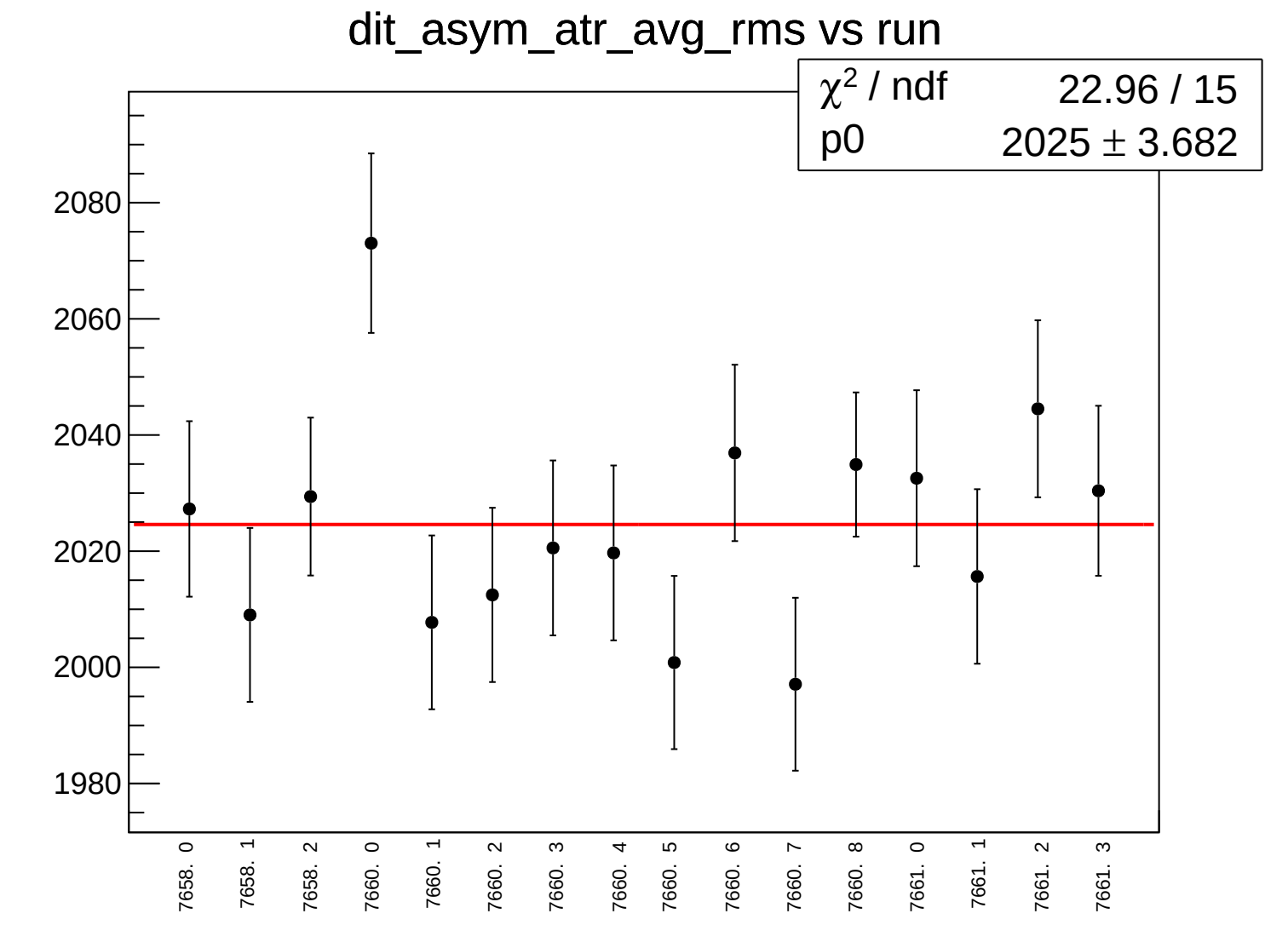

pull1D
Entries 16
Mean 0.007712
Std Dev 1.082
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

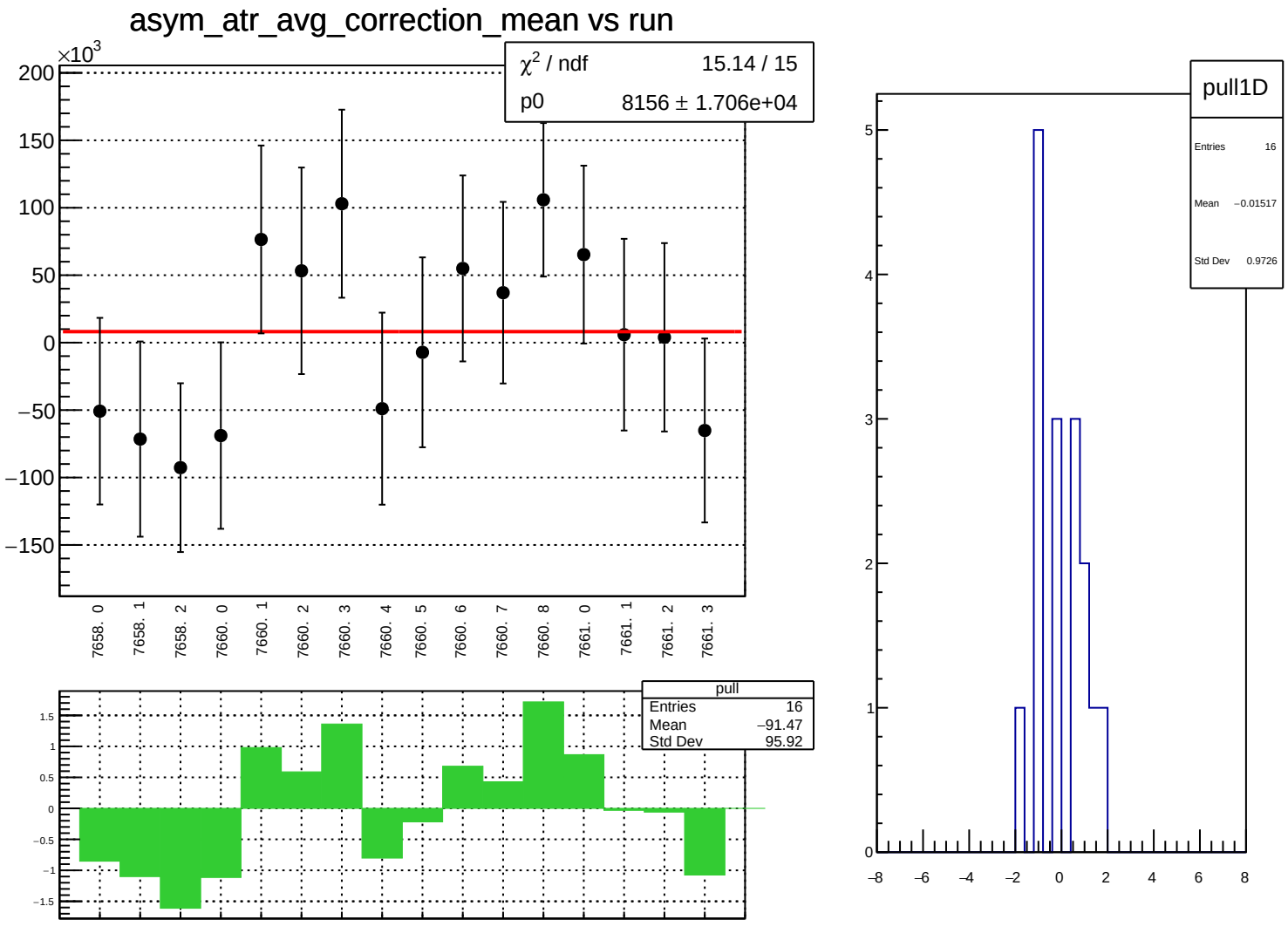

asym_atl_dd_rms vs run
χ² / ndf 332.2 / 15
p0 5339 ± 9.714
5700
5600
5500
5400
5300
5200
5100
5000
4900
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

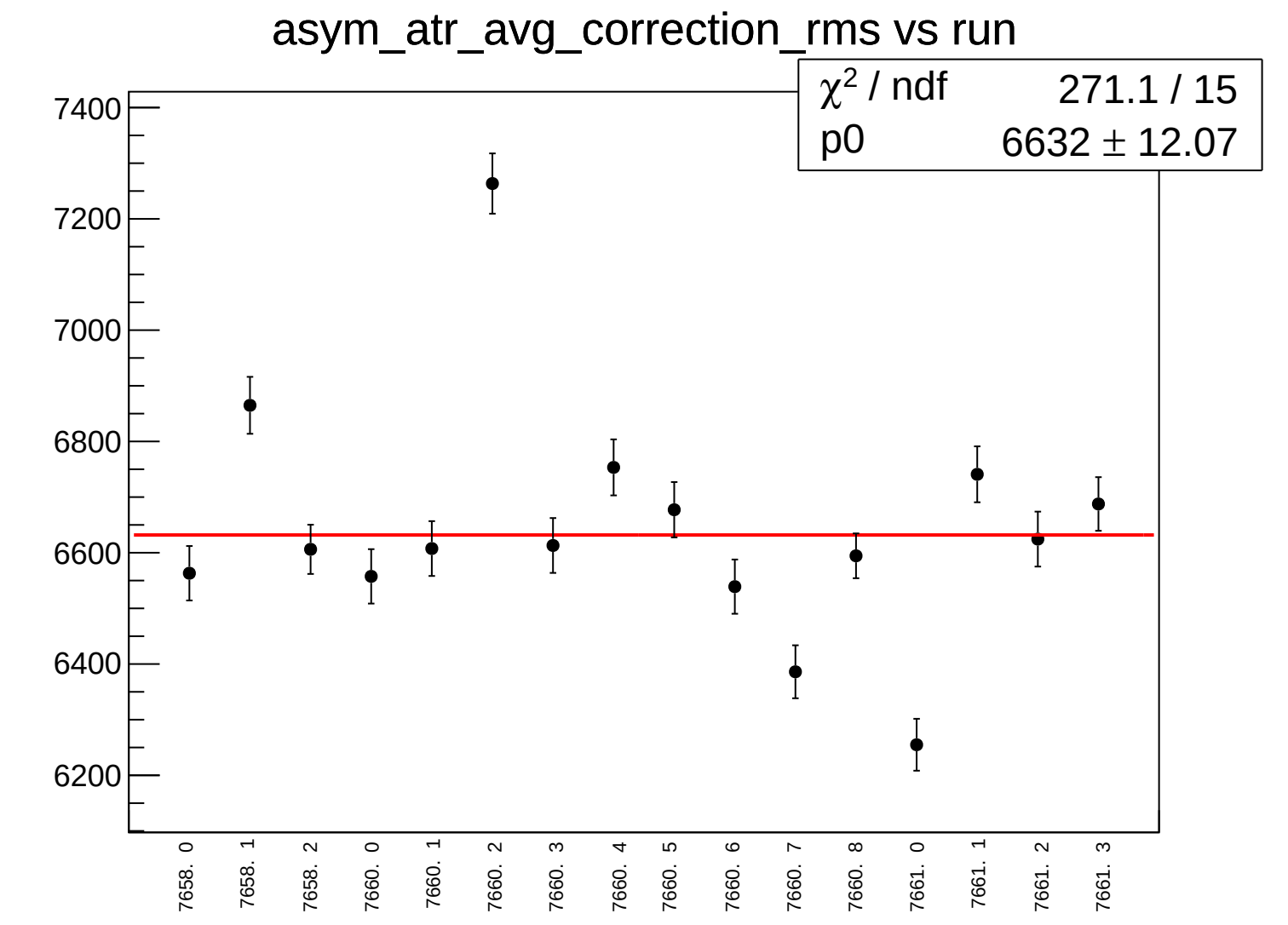

dit_asym_atr_avg_mean vs run
χ² / ndf 7.573 / 15
p0 −3097 ± 5207
40000
20000
0
−20000
−40000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

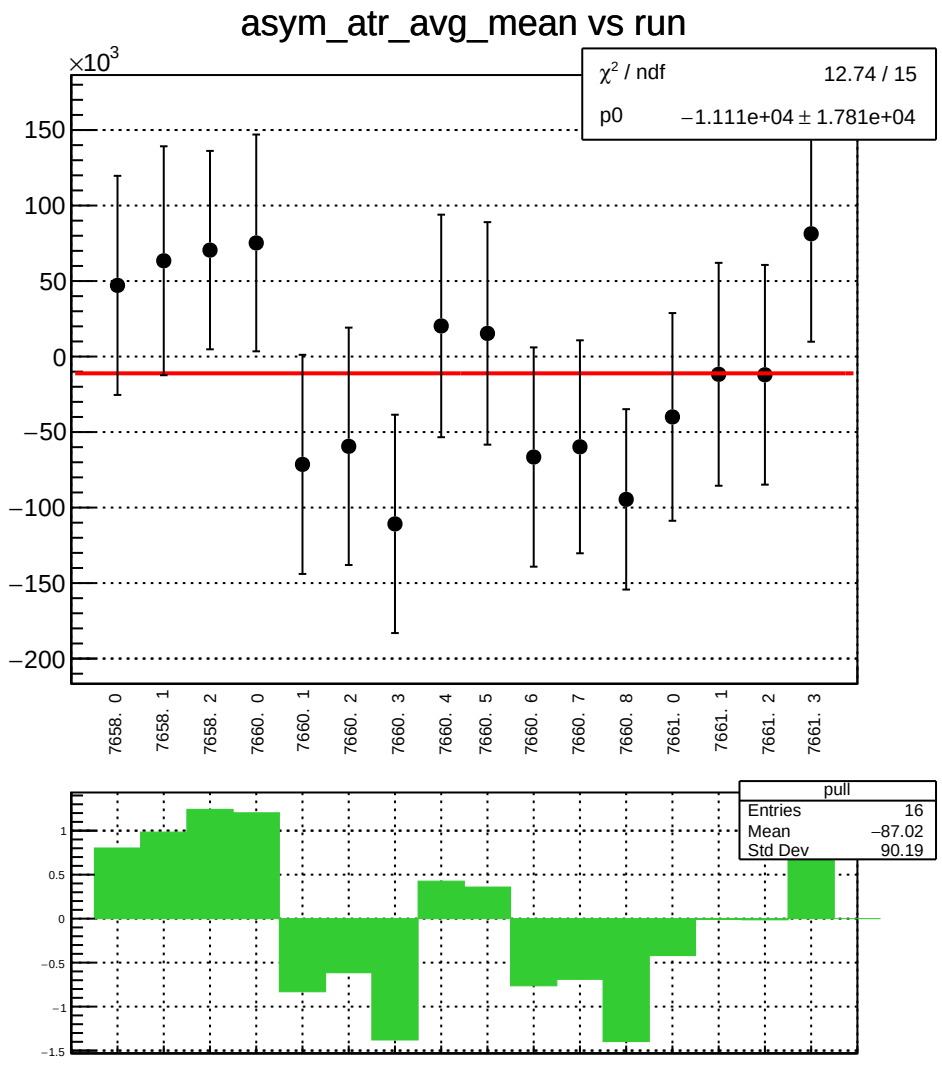

pull
Entries 16
Mean −204.3
Std Dev 213.5
1
0.5
0
−0.5
−1

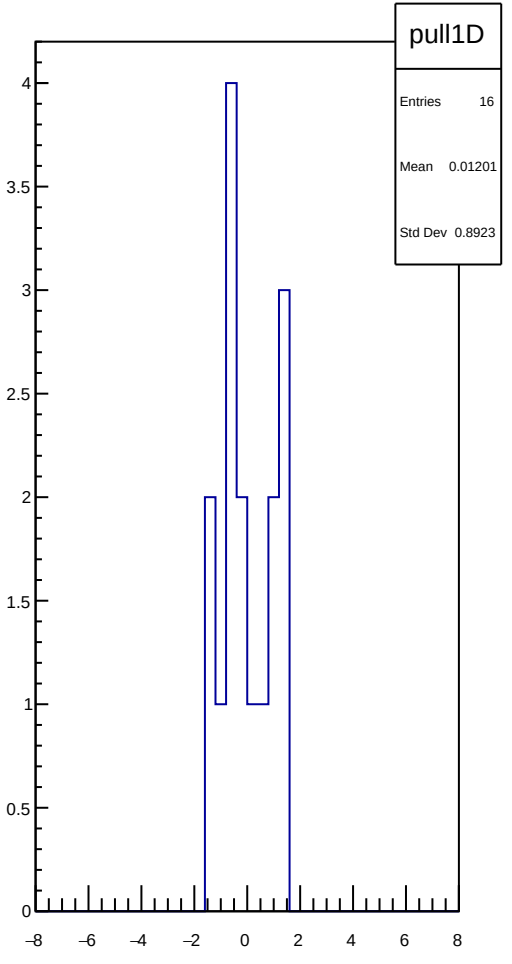

pull1D
Entries 16
Mean −0.004754
Std Dev 0.6879
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

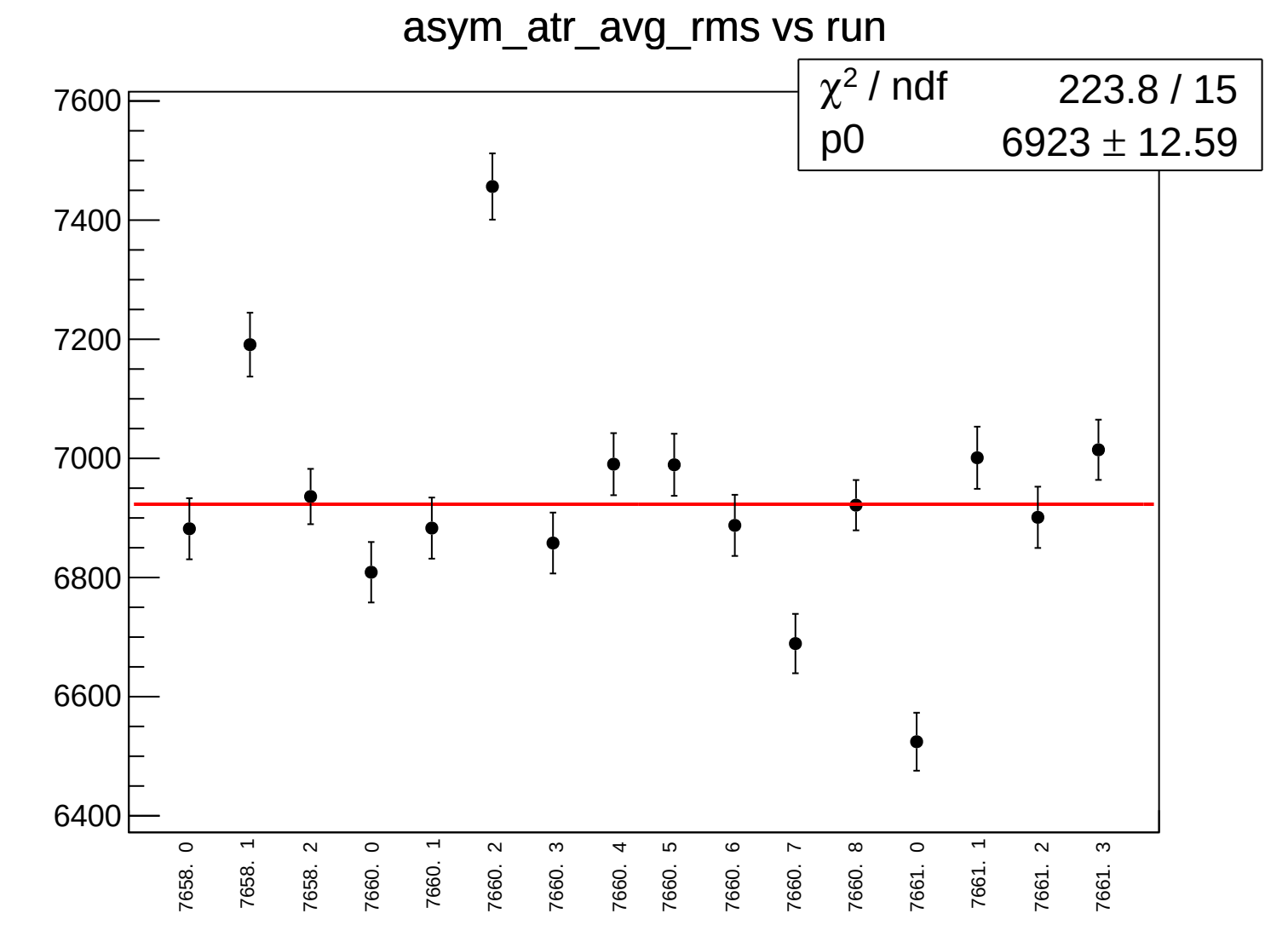

dit_asym_atr_avg_rms vs run
χ² / ndf 22.96 / 15
p0 2025 ± 3.682
2080
2060
2040
2020
2000
1980
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

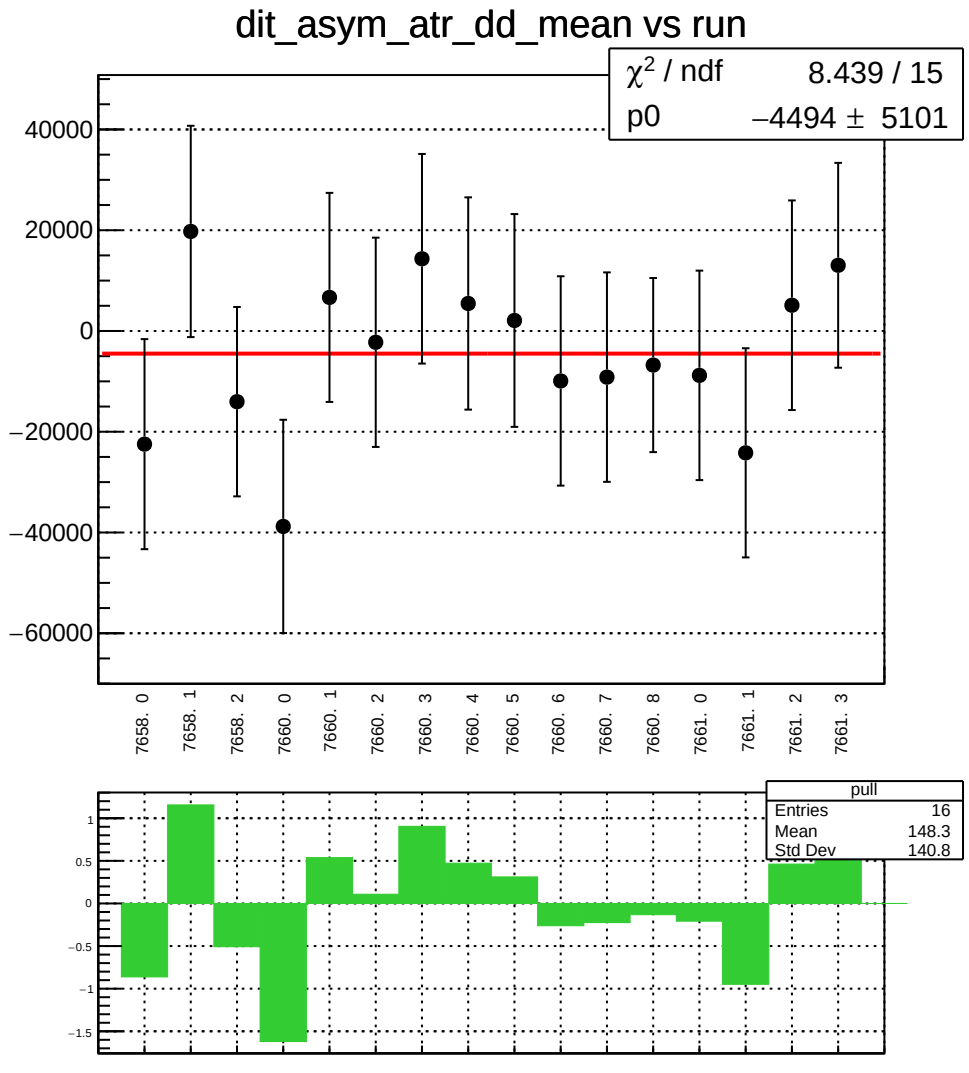

asym_atr_avg_correction_mean vs run
×10^3
χ² / ndf 15.14 / 15
p0 8156 ± 1.706e+04
200
150
100
50
0
−50
−100
−150
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −91.47
Std Dev 95.92
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 16
Mean −0.01517
Std Dev 0.9726
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

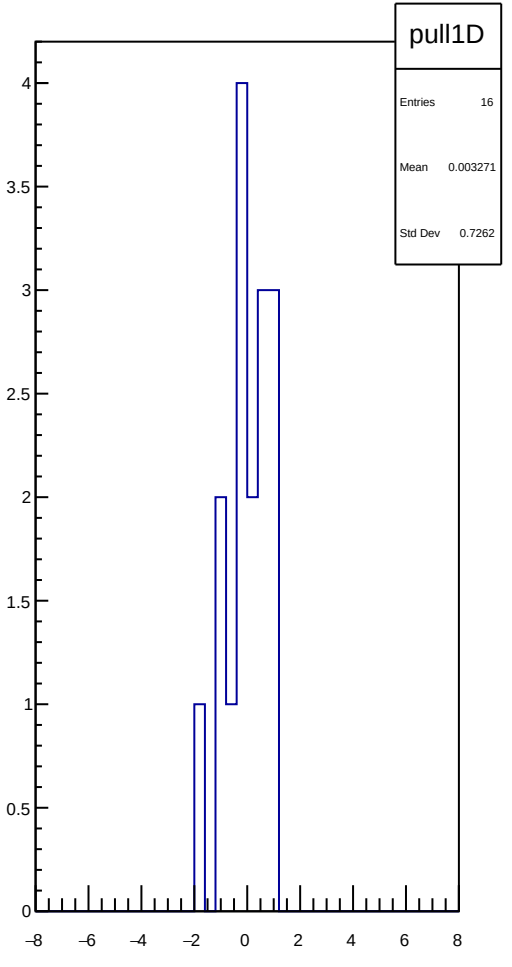

asym_atr_avg_correction_rms vs run
χ² / ndf 271.1 / 15
p0 6632 ± 12.07
7400
7200
7000
6800
6600
6400
6200
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

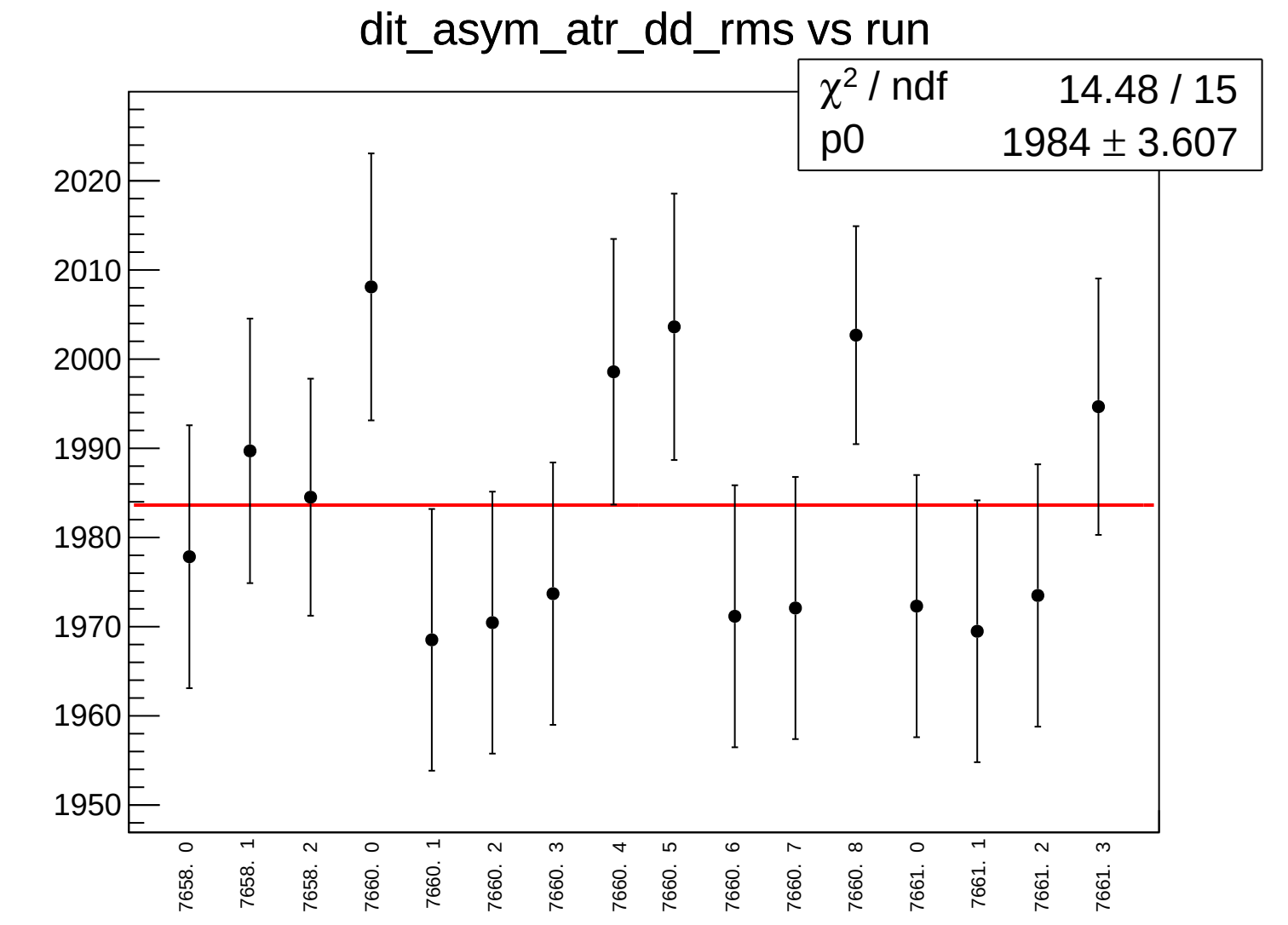

asym_atr_avg_mean vs run
×10^3
χ² / ndf 12.74 / 15
p0 −1.111e+04 ± 1.781e+04
150
100
50
0
−50
−100
−150
−200
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −87.02
Std Dev 90.19
1
0.5
0
−0.5
−1
−1.5

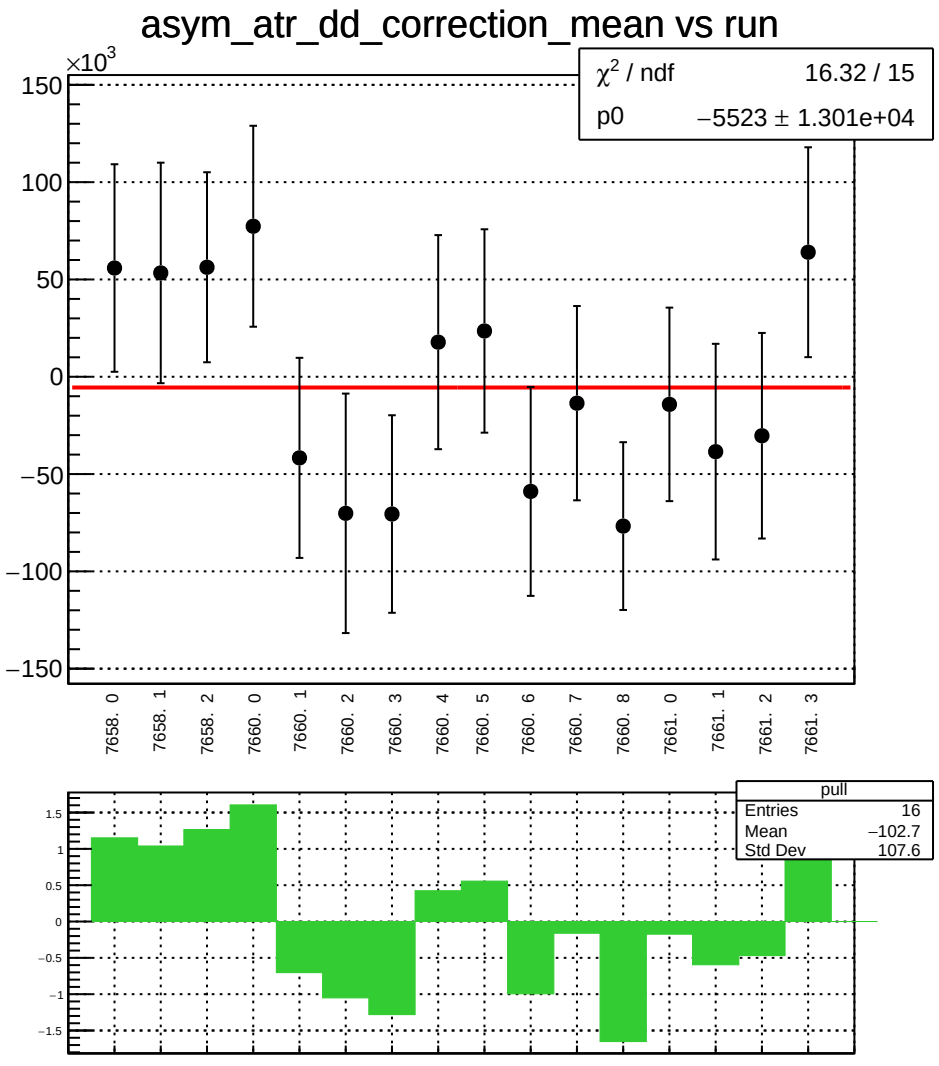

pull1D
Entries 16
Mean 0.01201
Std Dev 0.8923
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

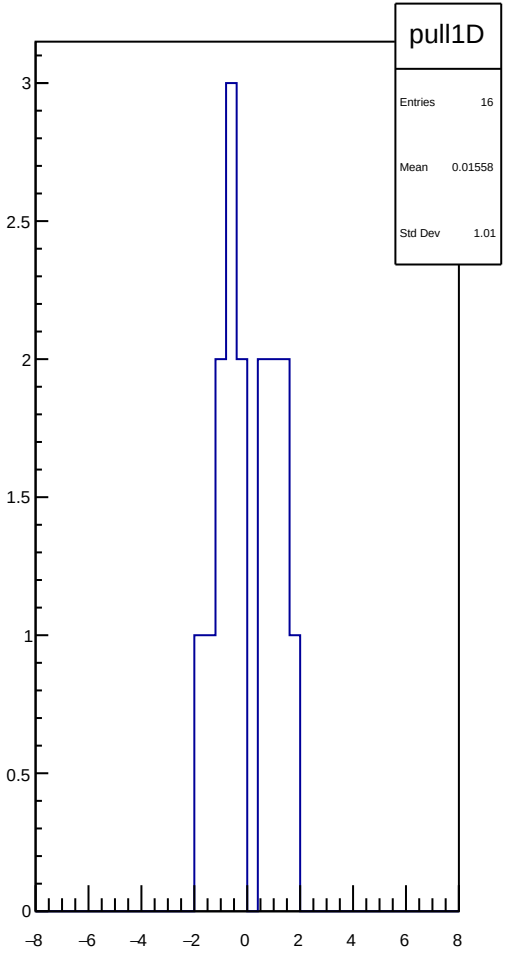

asym_atr_avg_rms vs run
χ^2 / ndf 223.8 / 15
p0 6923 ± 12.59
7600
7400
7200
7000
6800
6600
6400
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

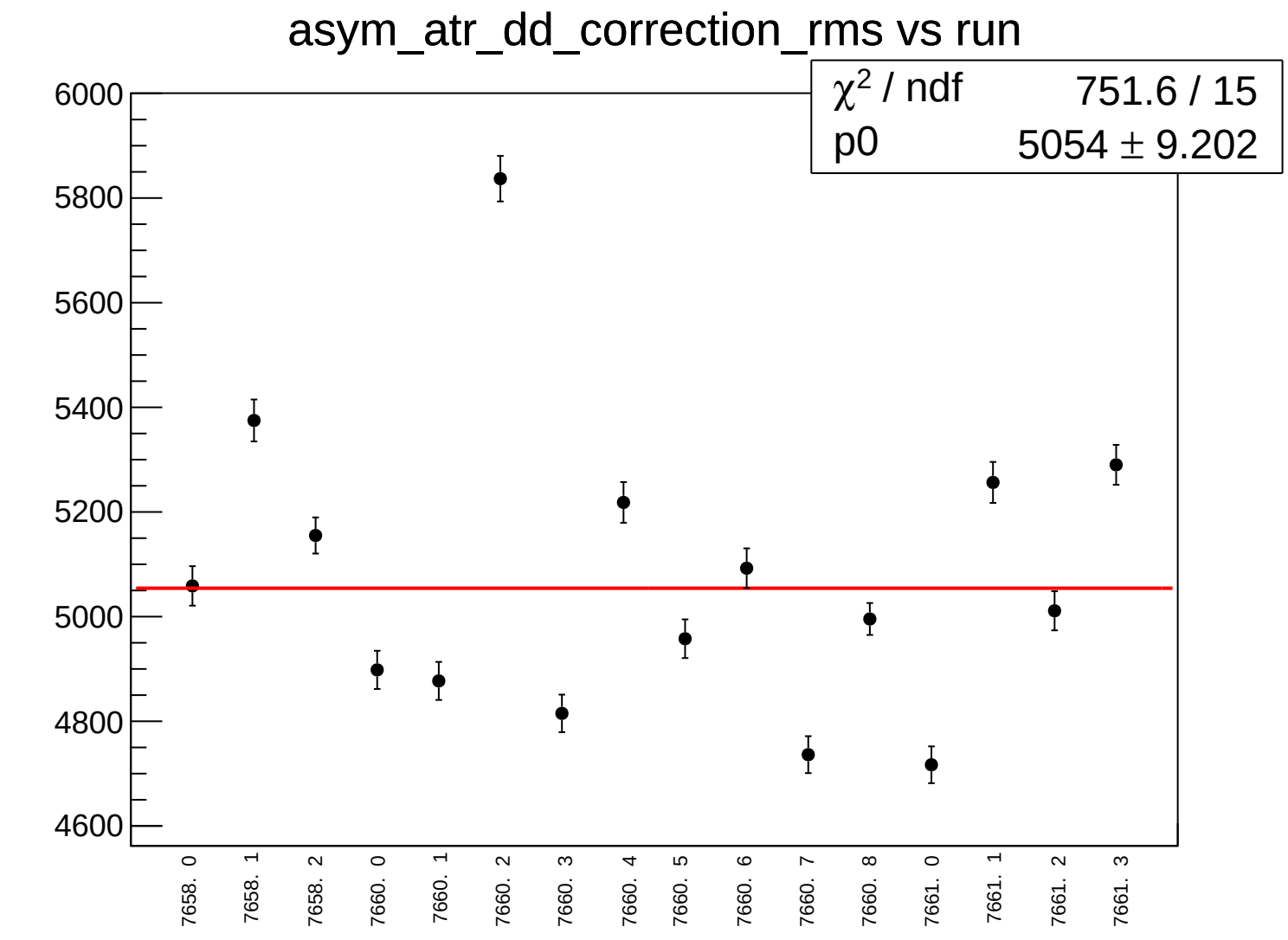

dit_asym_atr_dd_mean vs run
χ² / ndf 8.439 / 15
p0 −4494 ± 5101
40000
20000
0
−20000
−40000
−60000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 148.3
Std Dev 140.8
1
0.5
0
−0.5
−1
−1.5

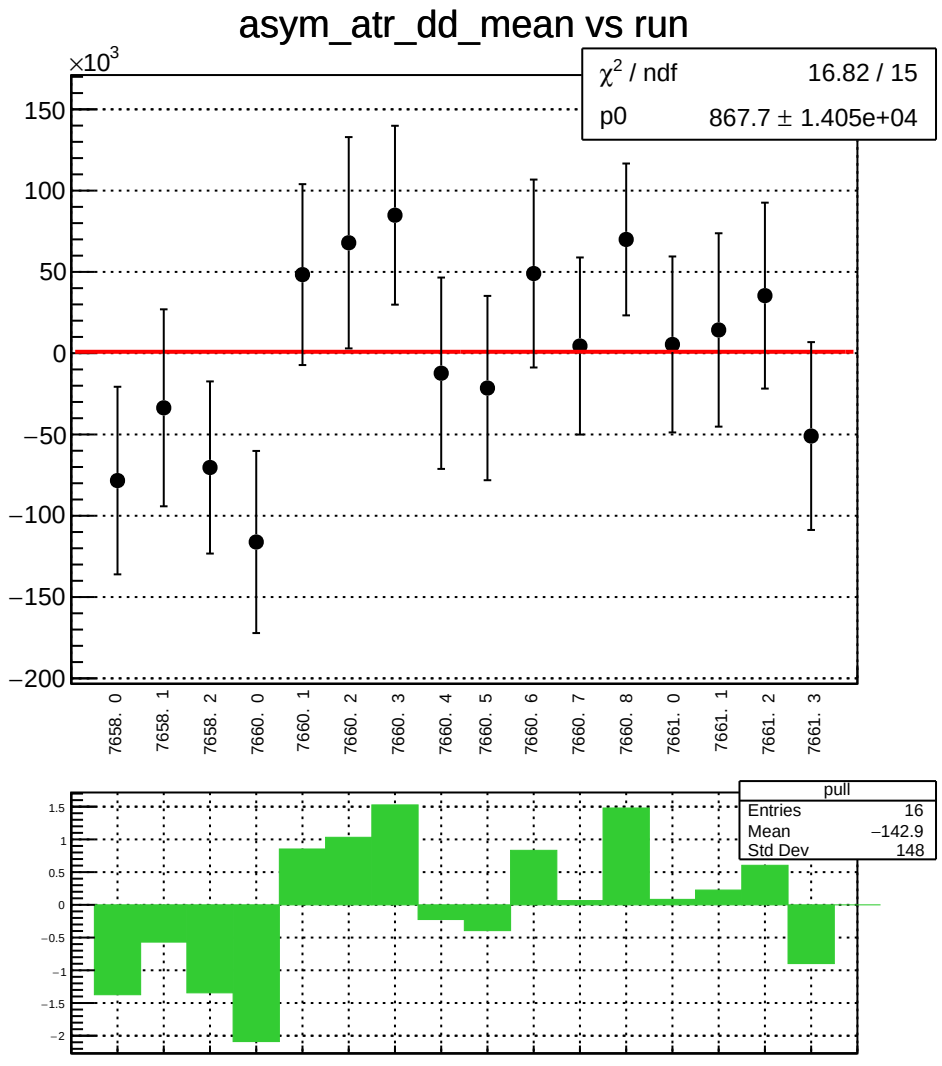

pull1D
Entries 16
Mean 0.003271
Std Dev 0.7262
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

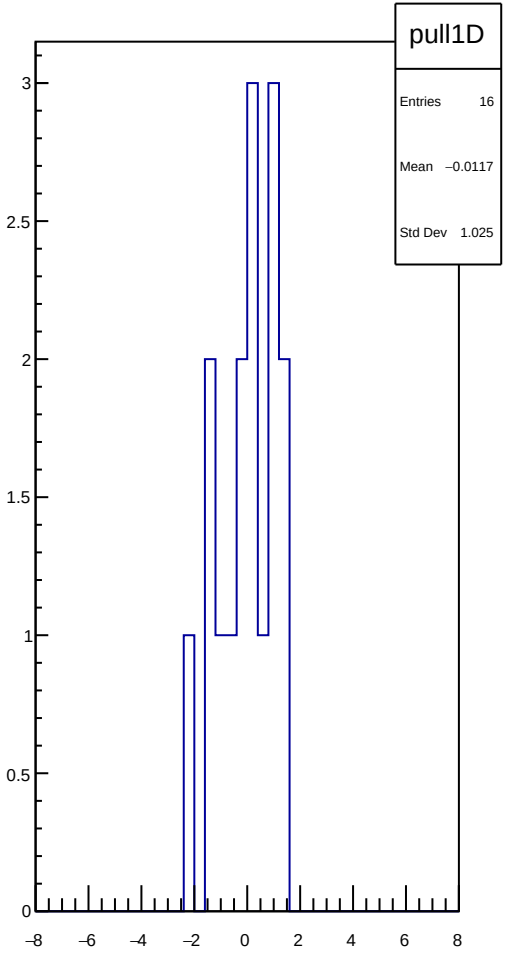

dit_asym_atr_dd_rms vs run
χ² / ndf 14.48 / 15
p0 1984 ± 3.607
2020
2010
2000
1990
1980
1970
1960
1950
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

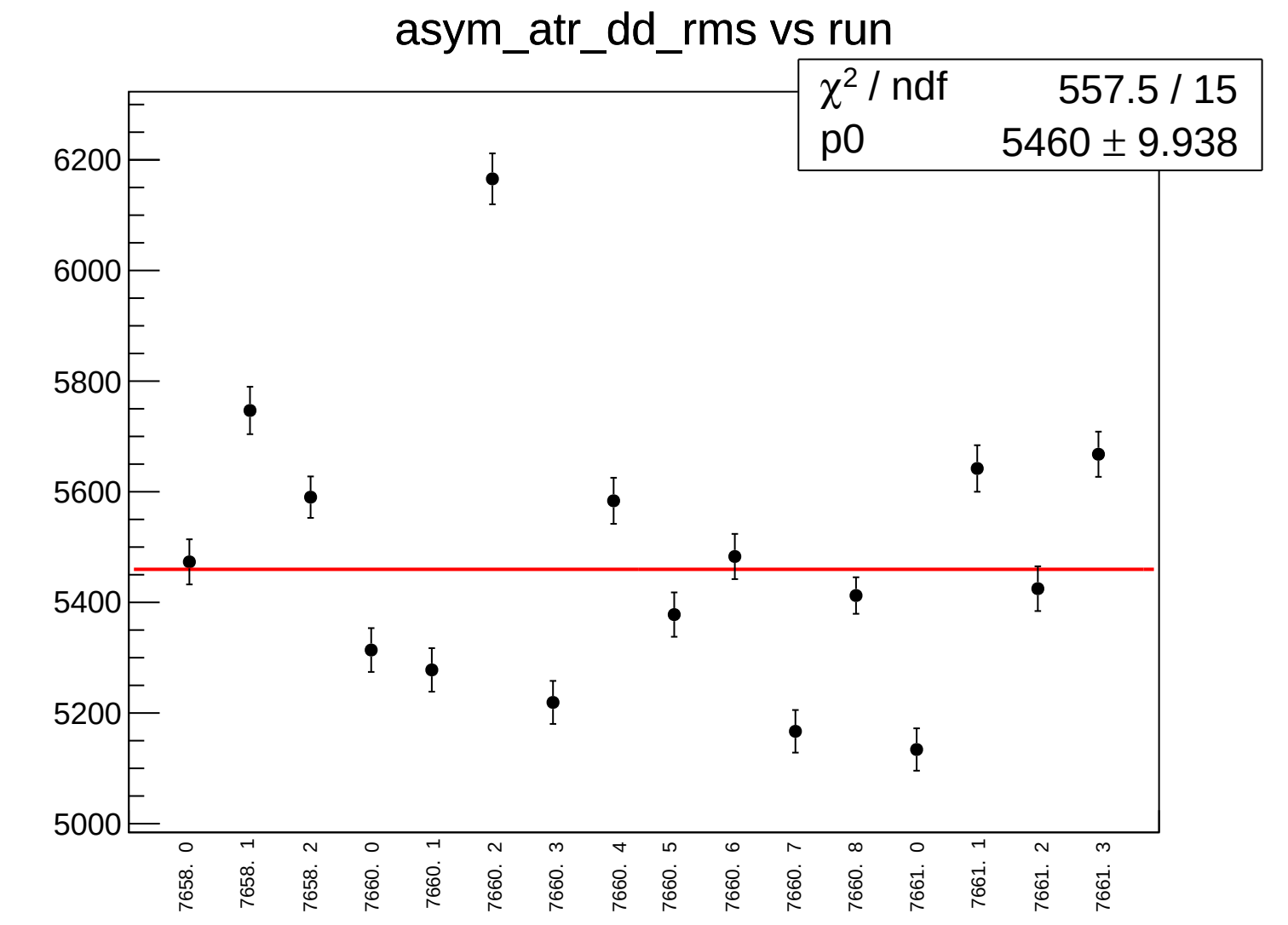

asym_atr_dd_correction_mean vs run
×10^3
χ² / ndf 16.32 / 15
p0 −5523 ± 1.301e+04
150
100
50
0
−50
−100
−150
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −102.7
Std Dev 107.6
1.5
1
0.5
0
−0.5
−1
−1.5

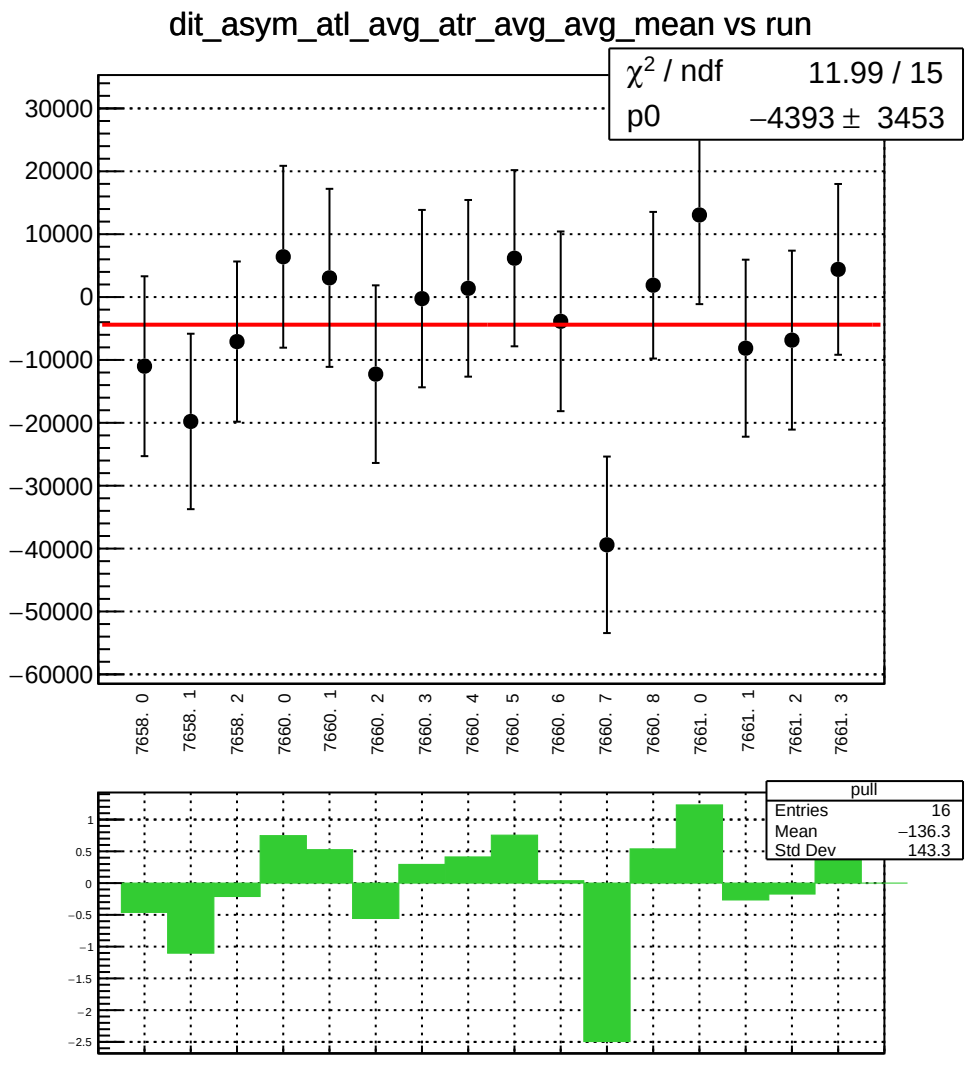

pull1D
Entries 16
Mean 0.01558
Std Dev 1.01
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

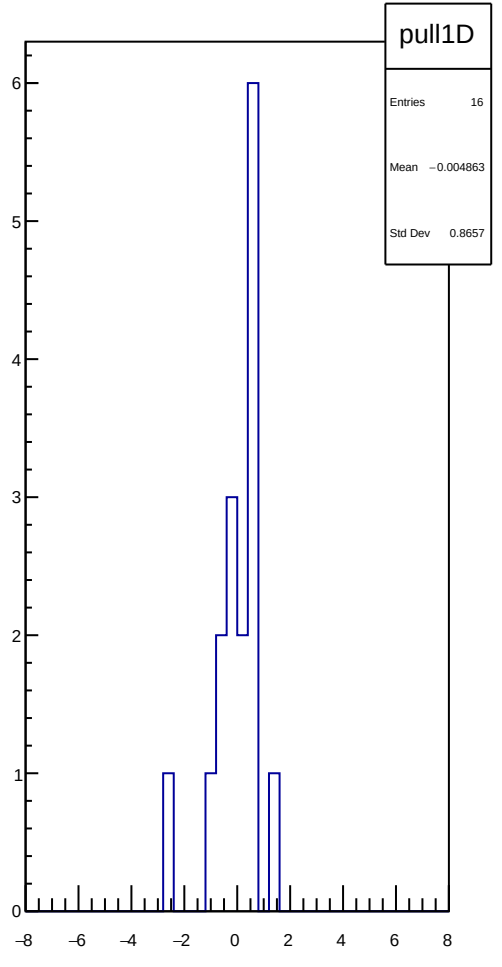

asym_atr_dd_correction_rms vs run
χ² / ndf 751.6 / 15
p0 5054 ± 9.202
6000
5800
5600
5400
5200
5000
4800
4600
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

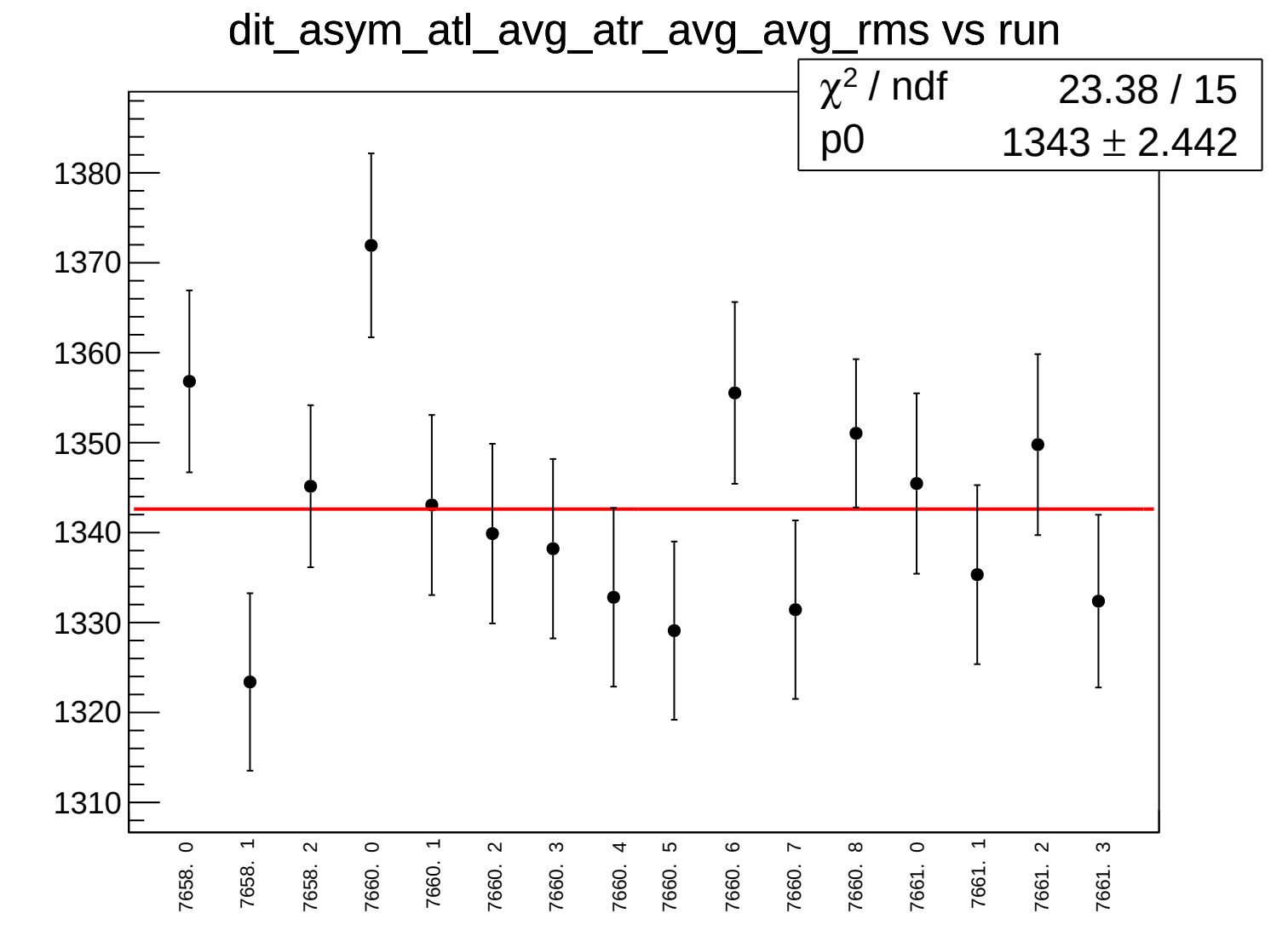

asym_atr_dd_mean vs run
×10^3
χ² / ndf 16.82 / 15
p0 867.7 ± 1.405e+04
150
100
50
0
−50
−100
−150
−200
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −142.9
Std Dev 148
1.5
1
0.5
0
−0.5
−1
−1.5
−2

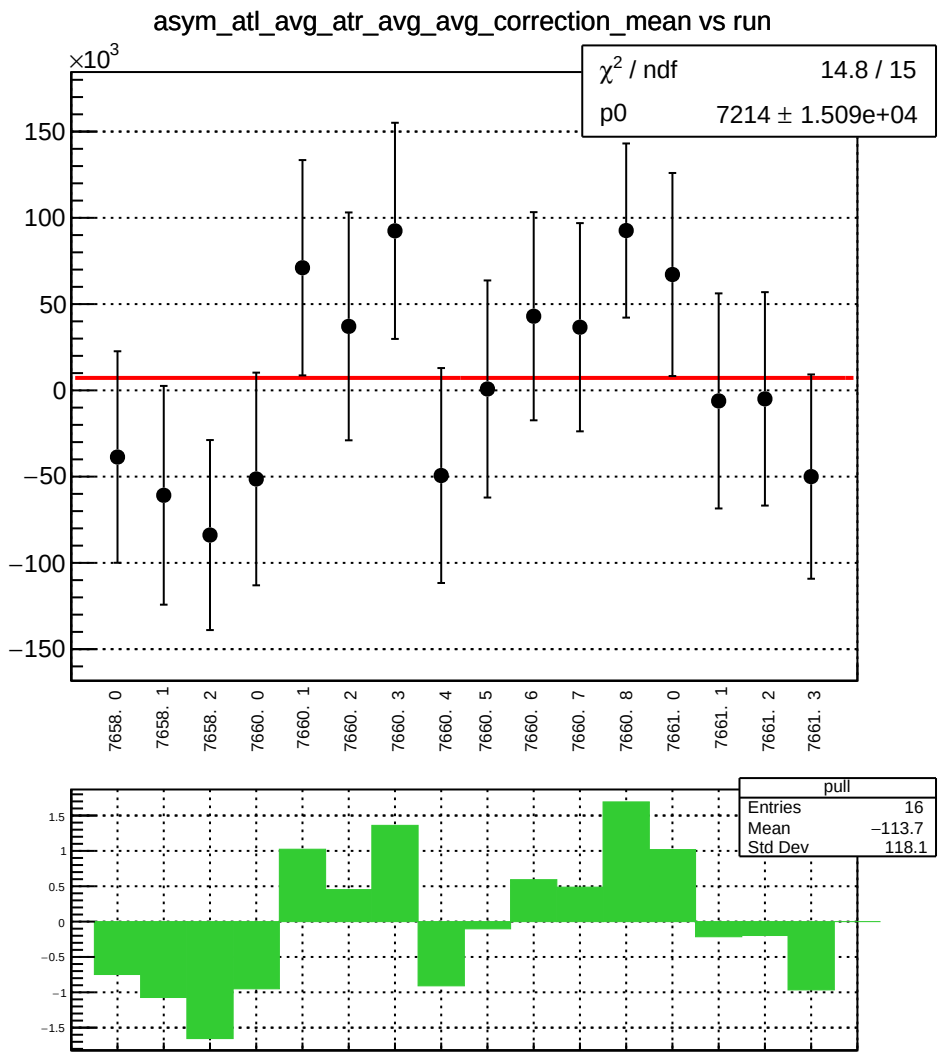

pull1D
Entries 16
Mean −0.0117
Std Dev 1.025
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

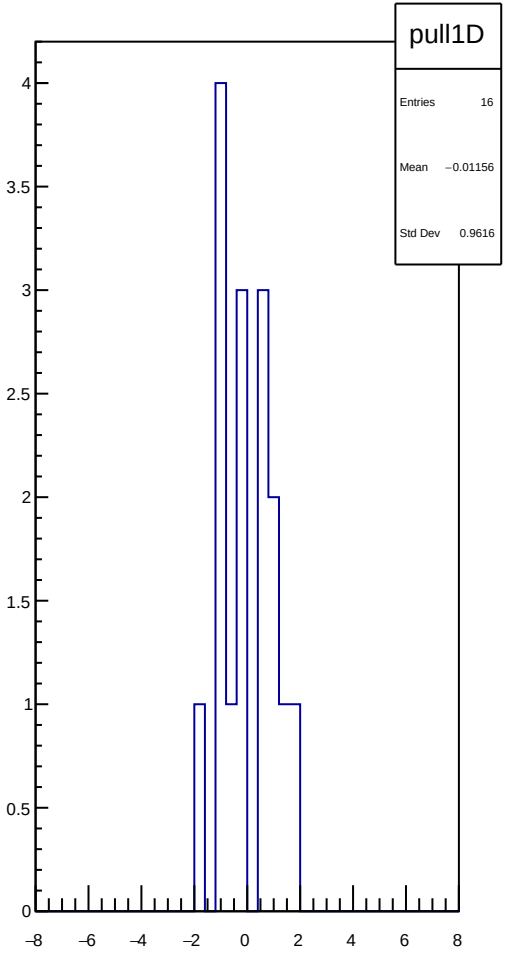

asym_atr_dd_rms vs run
χ² / ndf 557.5 / 15
p0 5460 ± 9.938
6200
6000
5800
5600
5400
5200
5000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

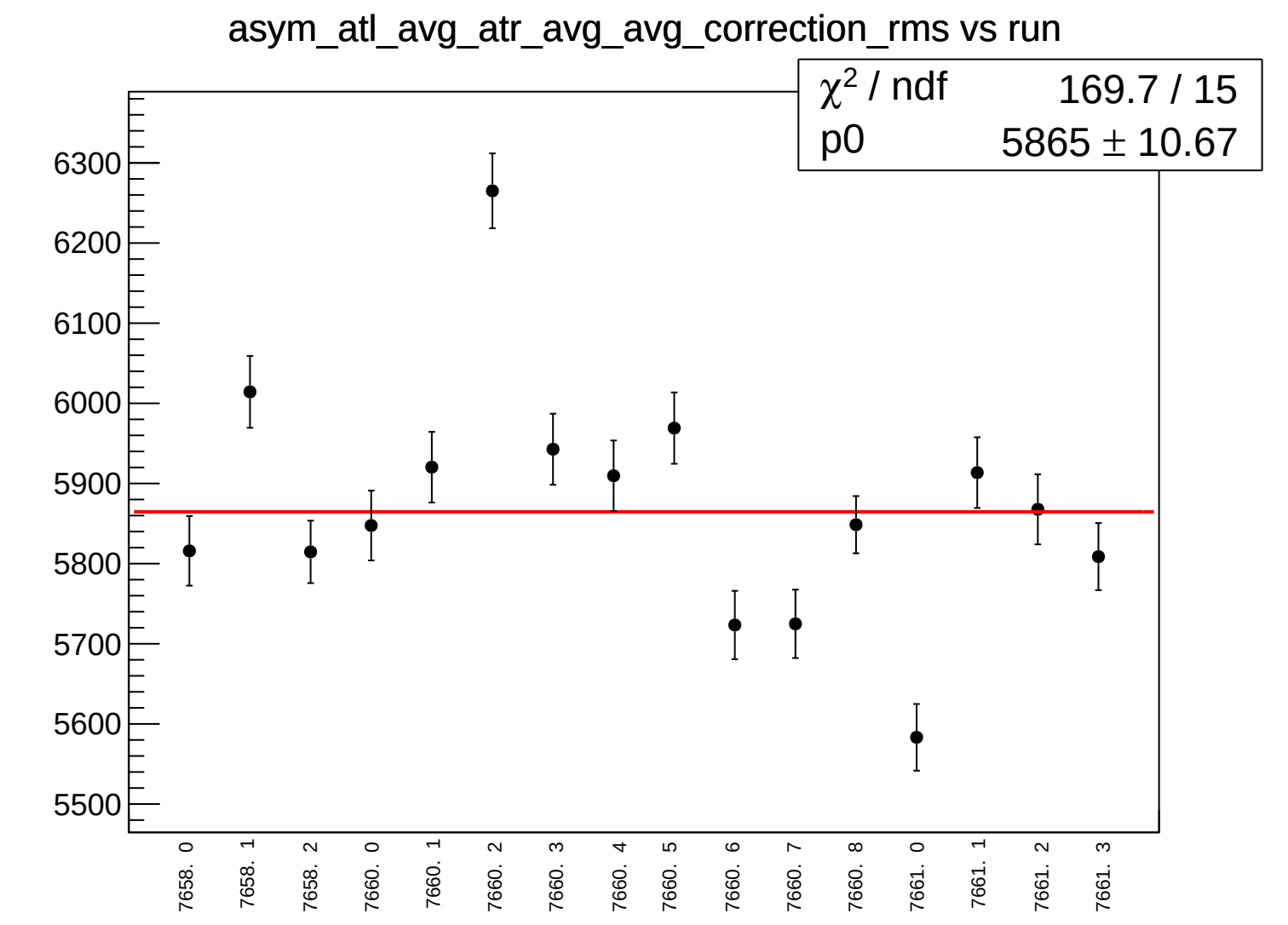

dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 11.99 / 15
p0 −4393 ± 3453
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
−60000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −136.3
Std Dev 143.3
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

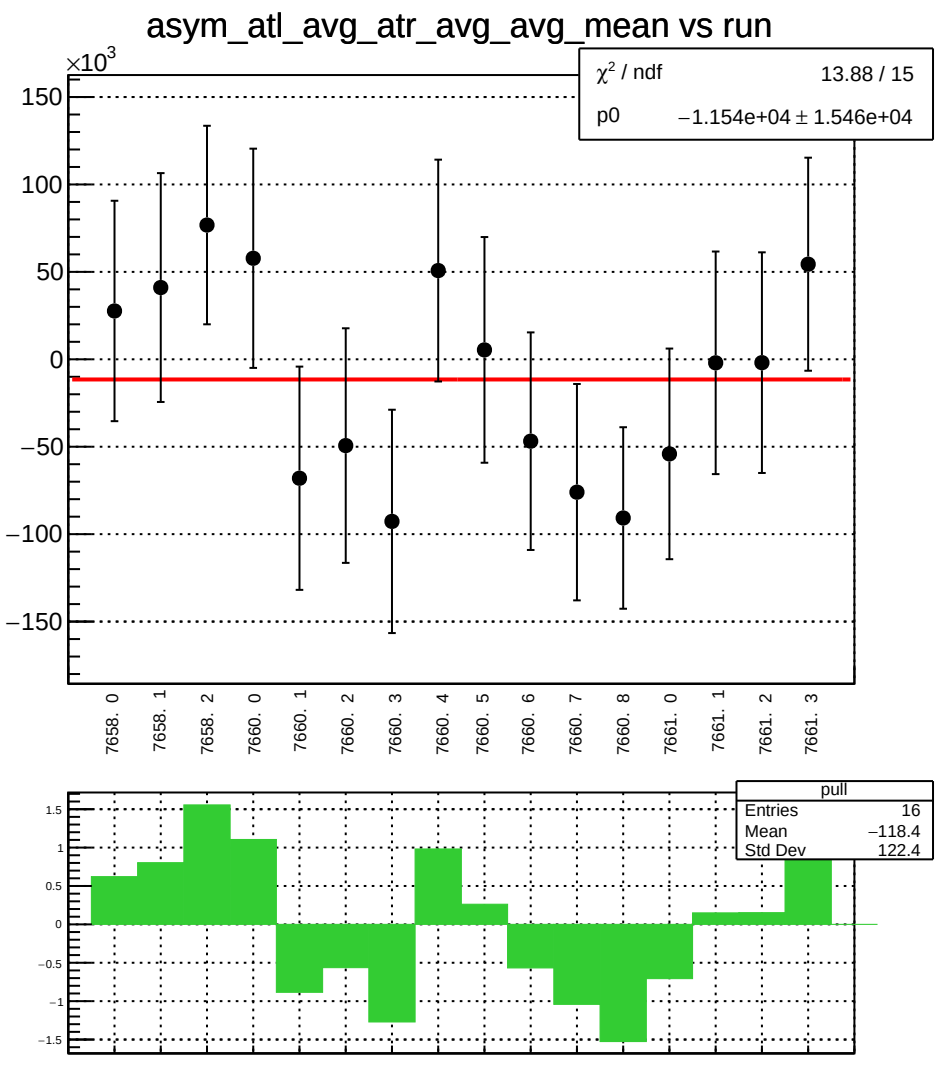

pull1D
Entries 16
Mean −0.004863
Std Dev 0.8657
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

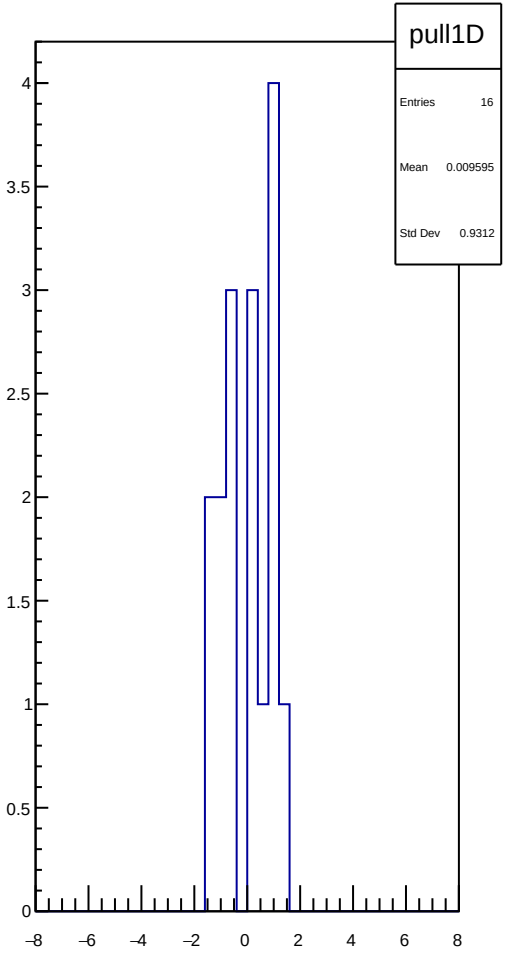

dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 23.38 / 15
p0 1343 ± 2.442
1380
1370
1360
1350
1340
1330
1320
1310
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

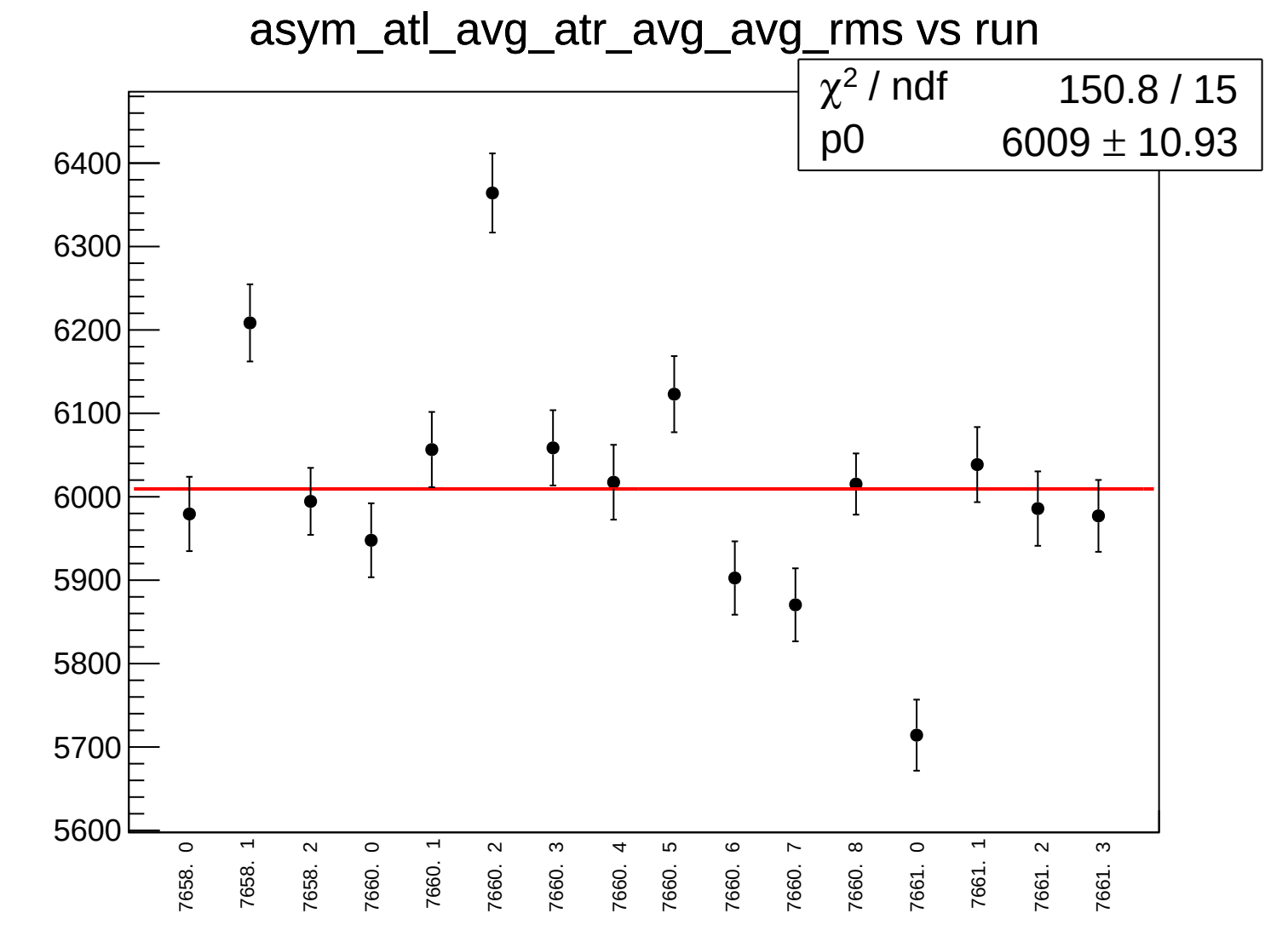

asym_atl_avg_atr_avg_avg_correction_mean vs run
×10^3
χ² / ndf 14.8 / 15
p0 7214 ± 1.509e+04
150
100
50
0
−50
−100
−150
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −113.7
Std Dev 118.1
1.5
1
0.5
0
−0.5
−1
−1.5

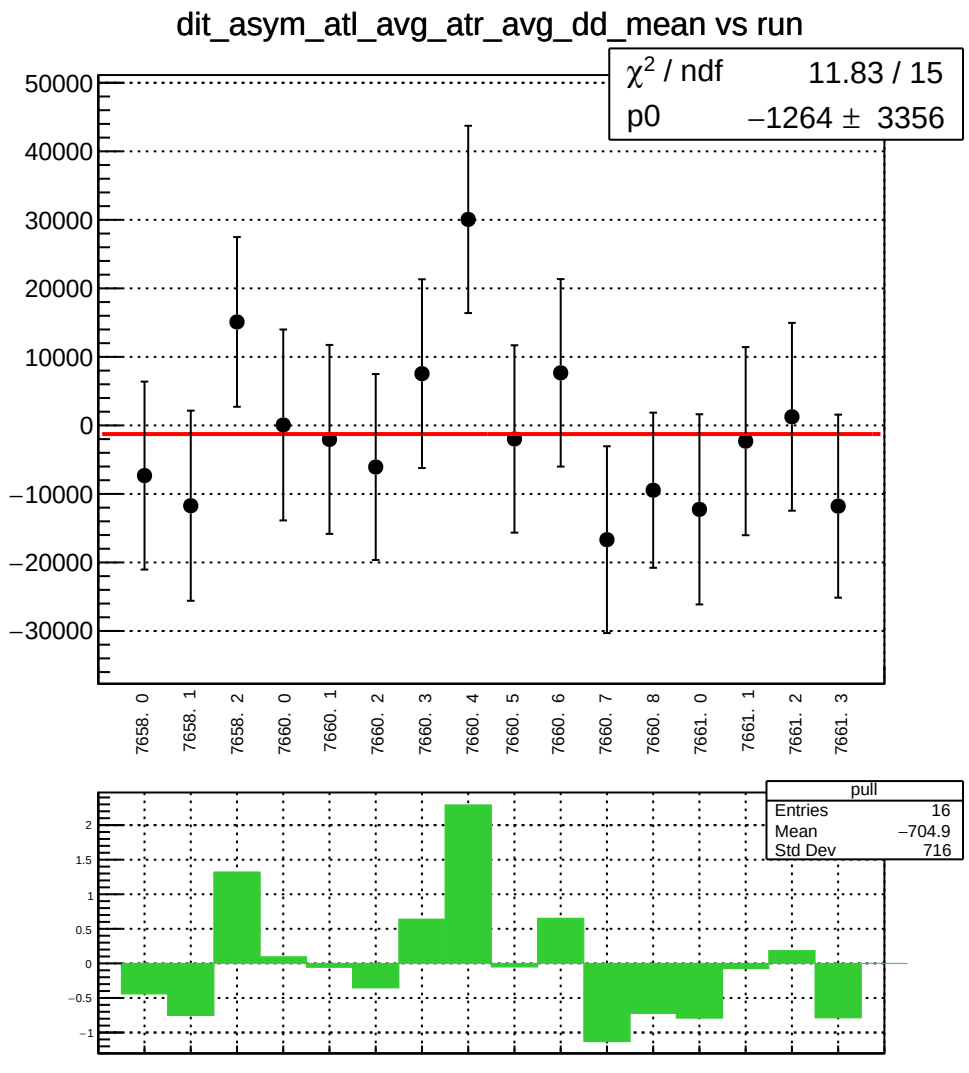

pull1D
Entries 16
Mean −0.01156
Std Dev 0.9616
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

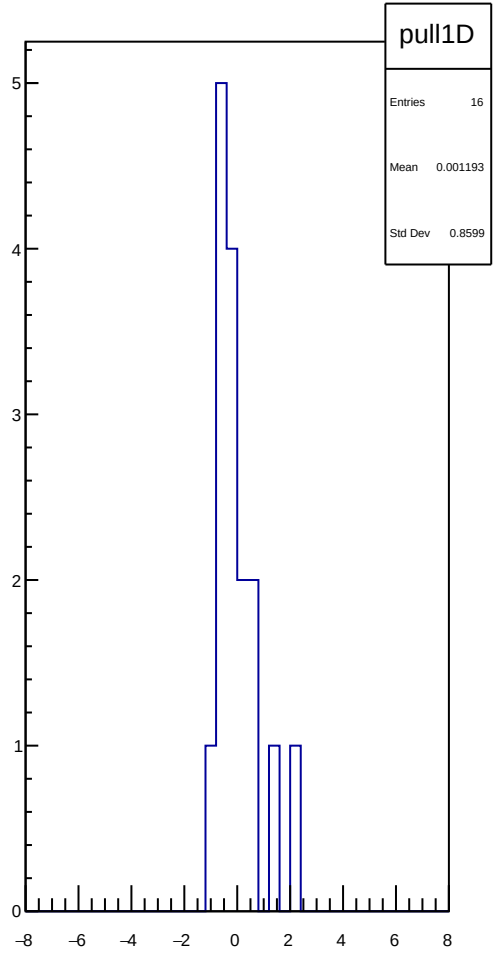

asym_atl_avg_atr_avg_avg_correction_rms vs run
χ² / ndf 169.7 / 15
p0 5865 ± 10.67
6300
6200
6100
6000
5900
5800
5700
5600
5500
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

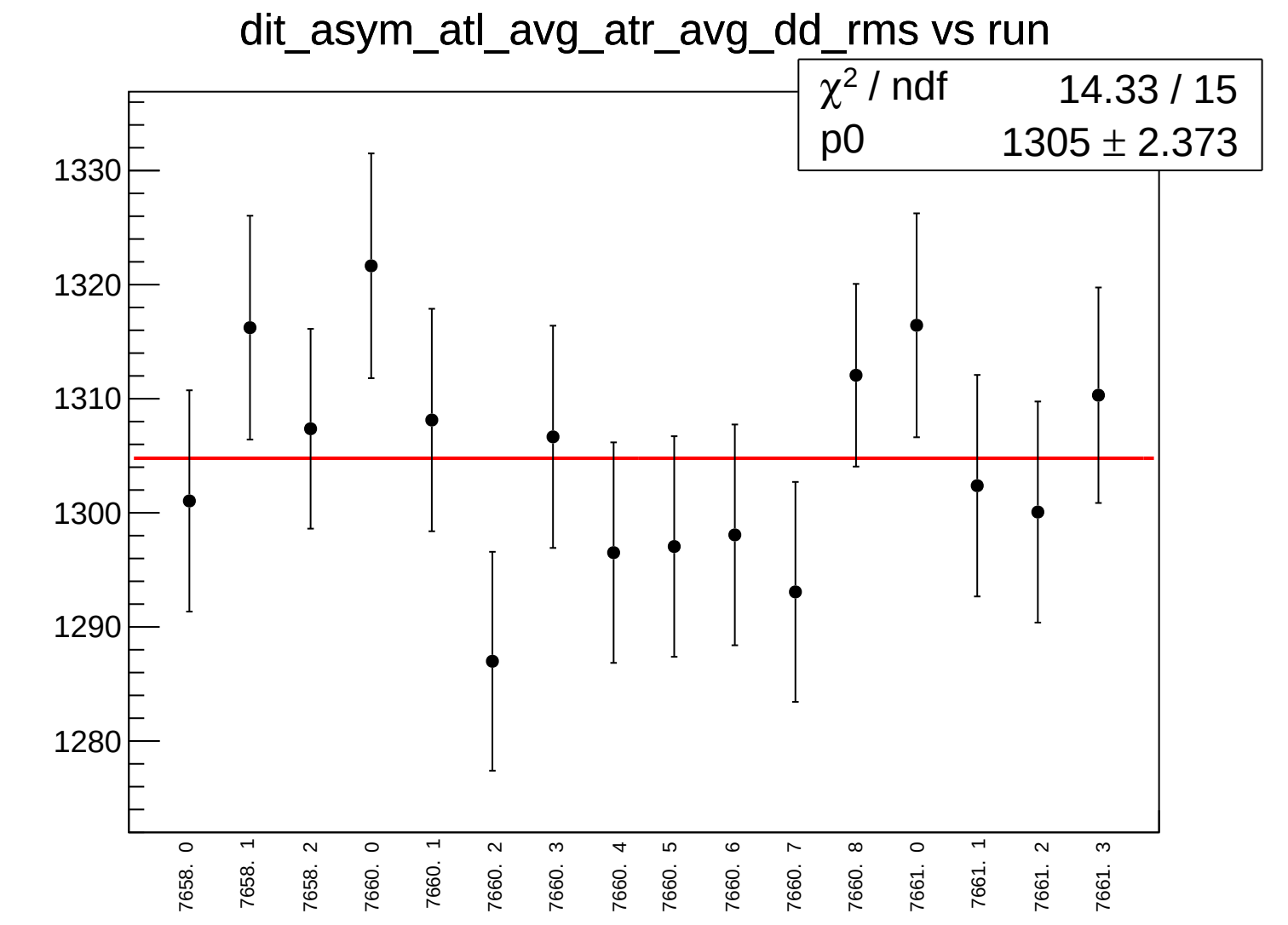

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 13.88 / 15
p0 −1.154e+04 ± 1.546e+04
150
100
50
0
−50
−100
−150
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −118.4
Std Dev 122.4
1.5
1
0.5
0
−0.5
−1
−1.5

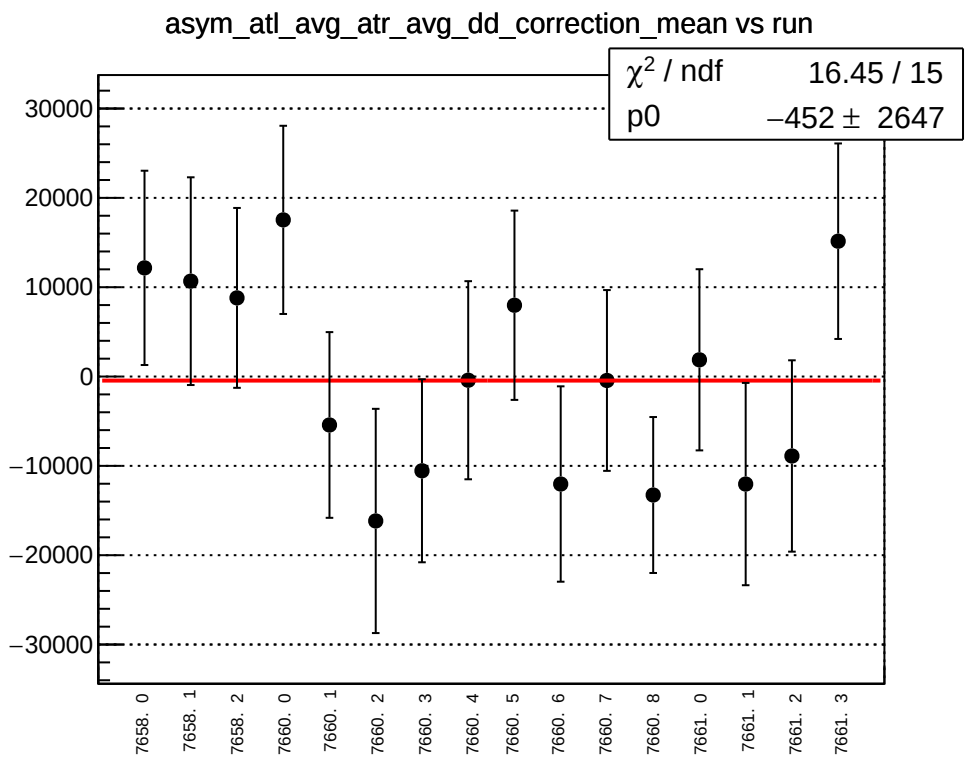

pull1D
Entries 16
Mean 0.009595
Std Dev 0.9312
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

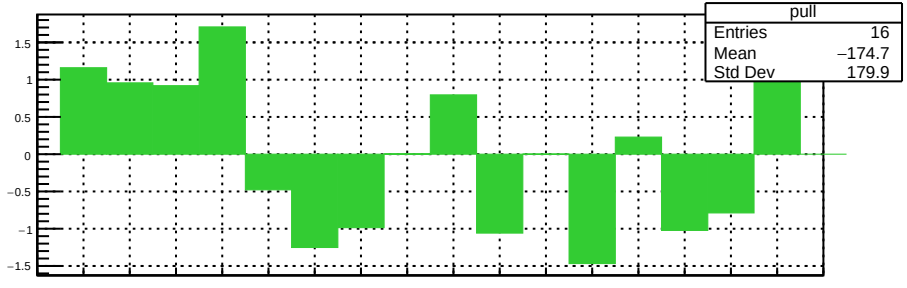

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 150.8 / 15
p0 6009 ± 10.93
6400
6300
6200
6100
6000
5900
5800
5700
5600
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

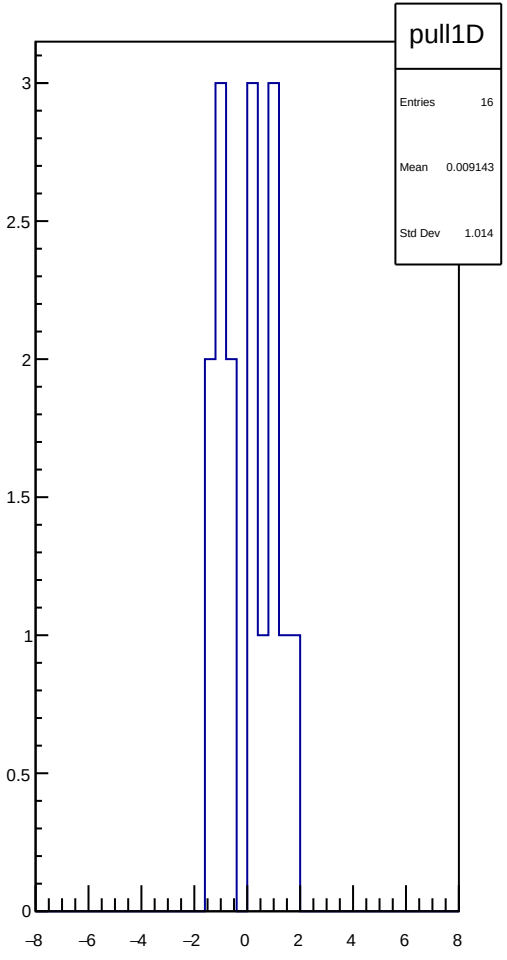

dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 11.83 / 15
p0 −1264 ± 3356
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −704.9
Std Dev 716
2
1.5
1
0.5
0
−0.5
−1

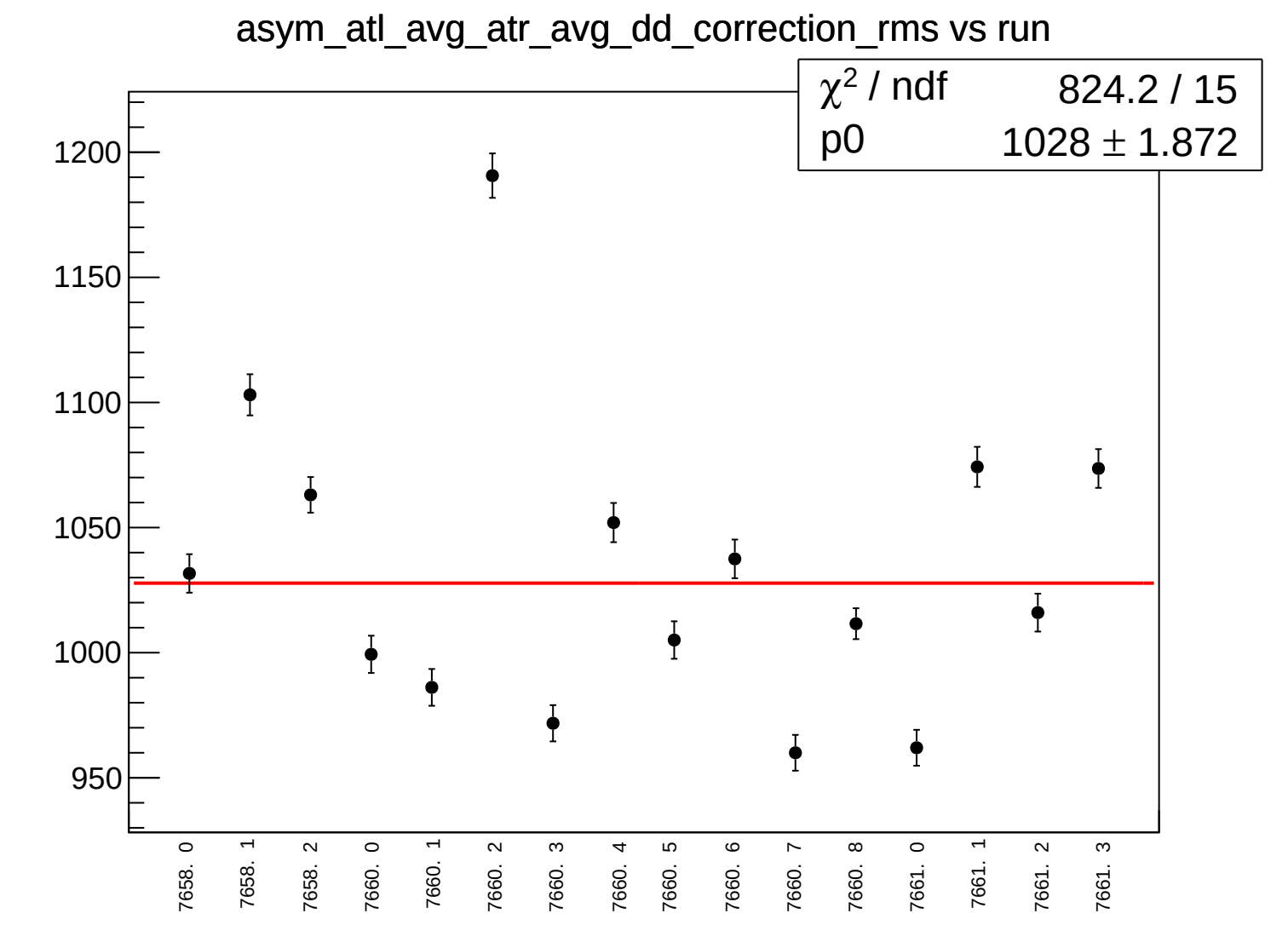

pull1D
Entries 16
Mean 0.001193
Std Dev 0.8599
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

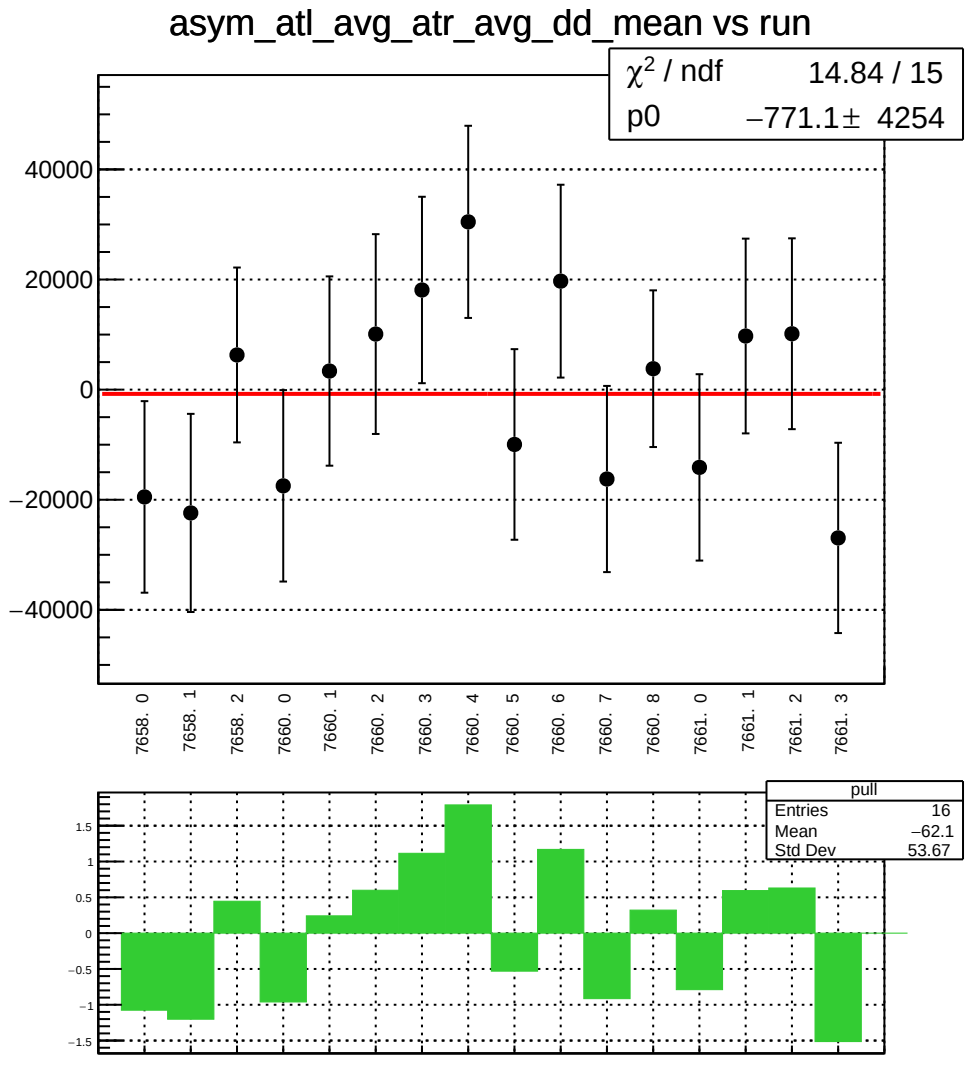

dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 14.33 / 15
p0 1305 ± 2.373
1330
1320
1310
1300
1290
1280
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

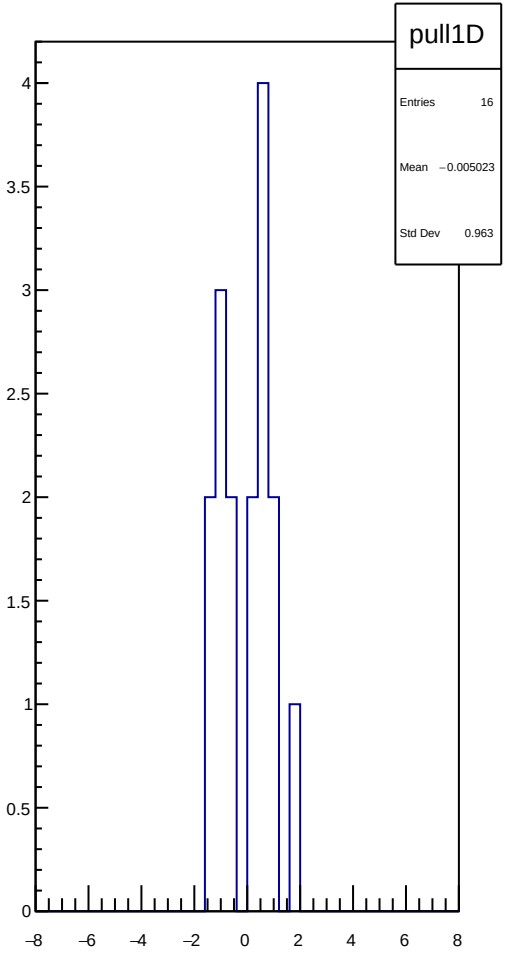

asym_atl_avg_atr_avg_dd_correction_mean vs run
χ² / ndf 16.45 / 15
p0 −452 ± 2647
30000
20000
10000
0
−10000
−20000
−30000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

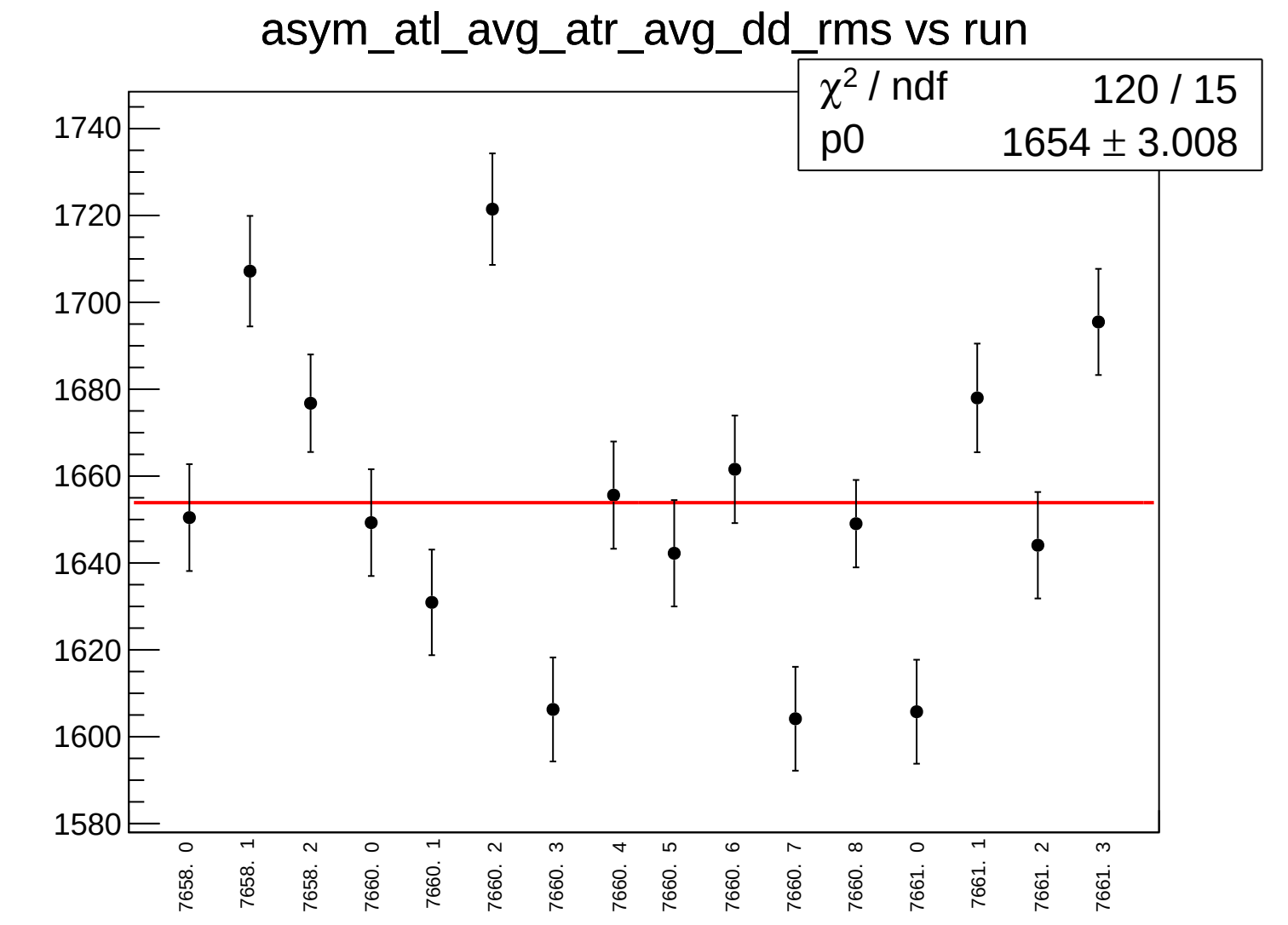

pull
Entries 16
Mean −174.7
Std Dev 179.9
1.5
1
0.5
0
−0.5
−1
−1.5

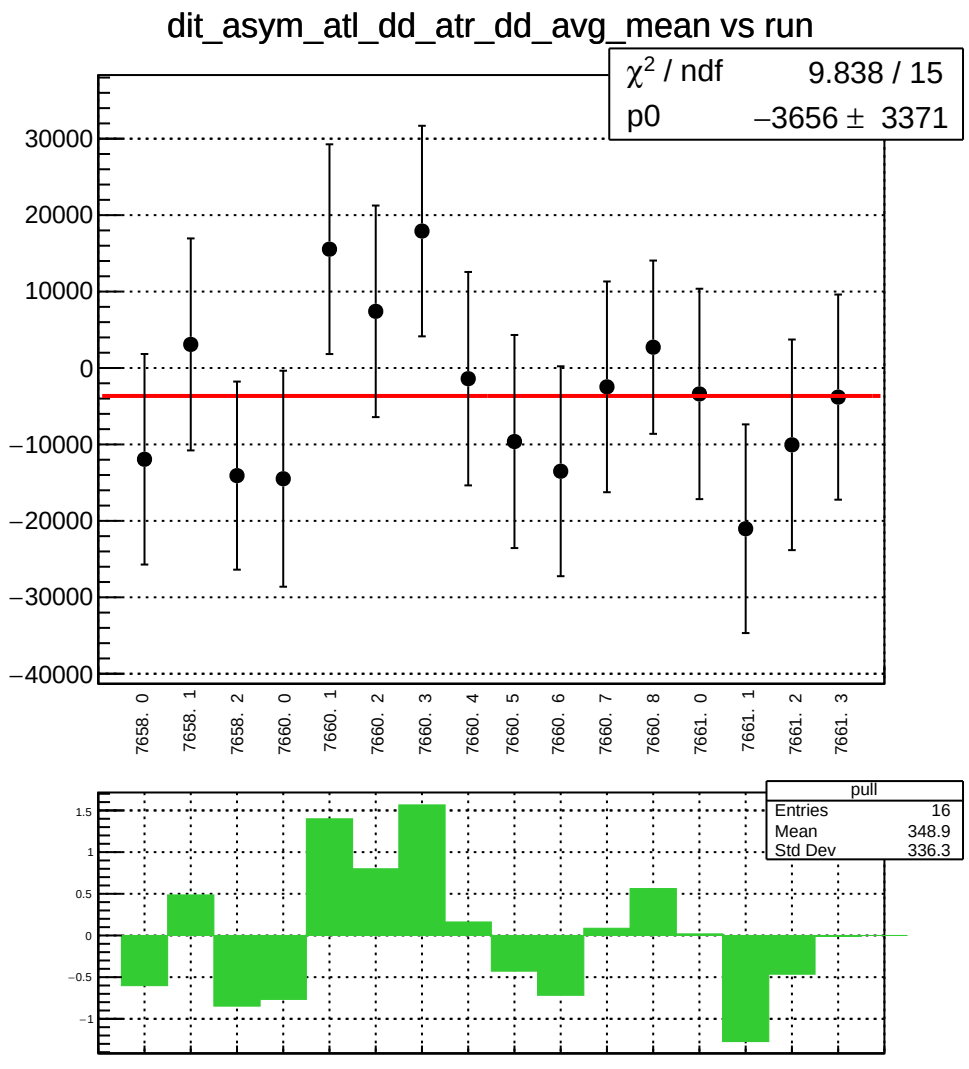

pull1D
Entries 16
Mean 0.009143
Std Dev 1.014
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

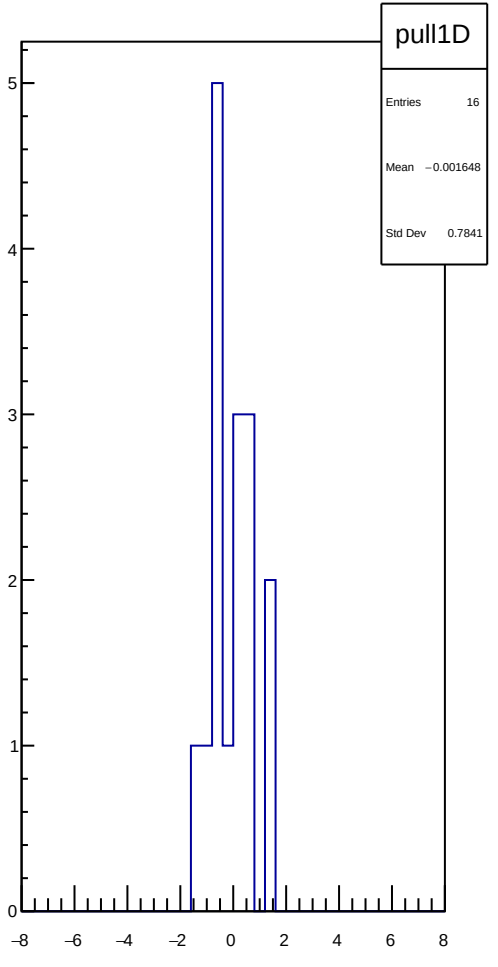

asym_atl_avg_atr_avg_dd_correction_rms vs run
χ² / ndf 824.2 / 15
p0 1028 ± 1.872
1200
1150
1100
1050
1000
950
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

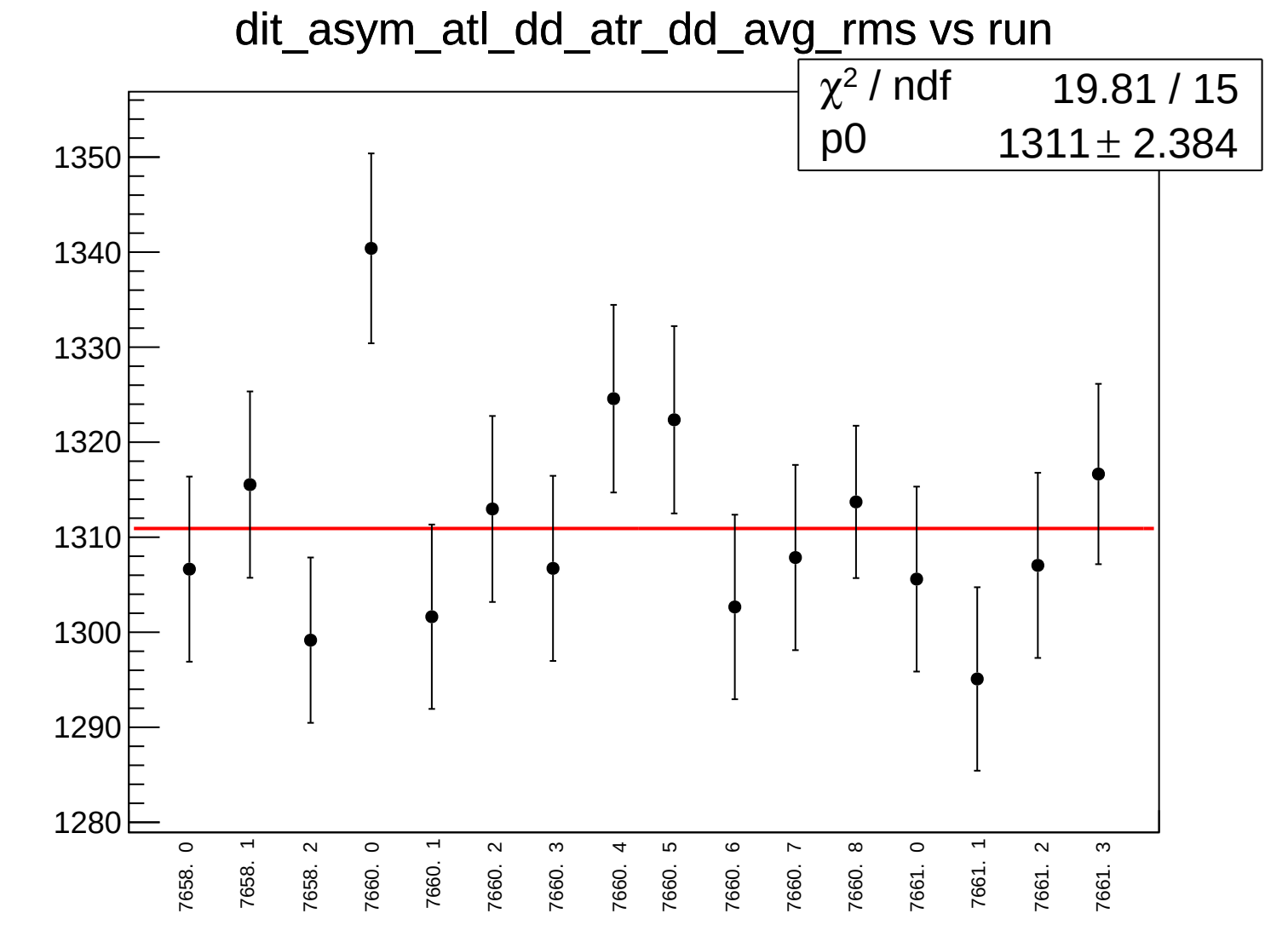

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 14.84 / 15
p0 −771.1± 4254
40000
20000
0
−20000
−40000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −62.1
Std Dev 53.67
1.5
1
0.5
0
−0.5
−1
−1.5

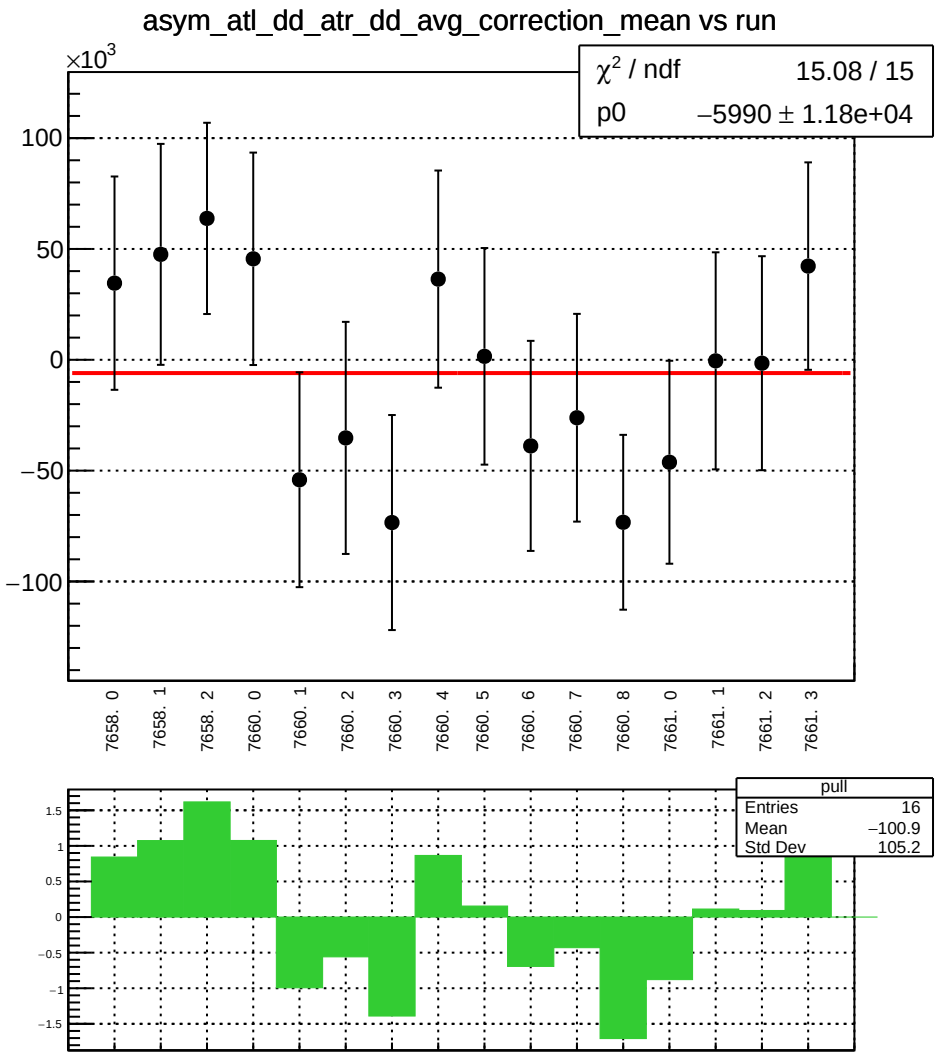

pull1D
Entries 16
Mean −0.005023
Std Dev 0.963
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

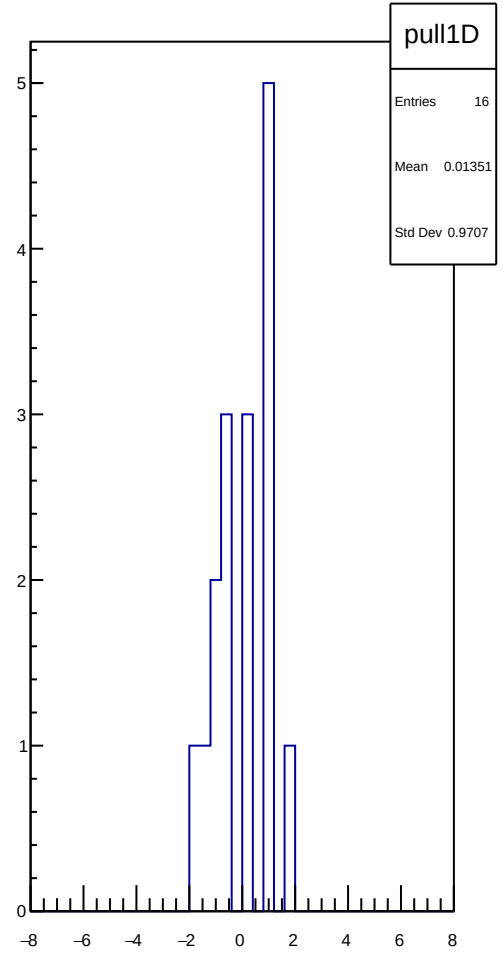

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 120 / 15
p0 1654 ± 3.008
1740
1720
1700
1680
1660
1640
1620
1600
1580
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

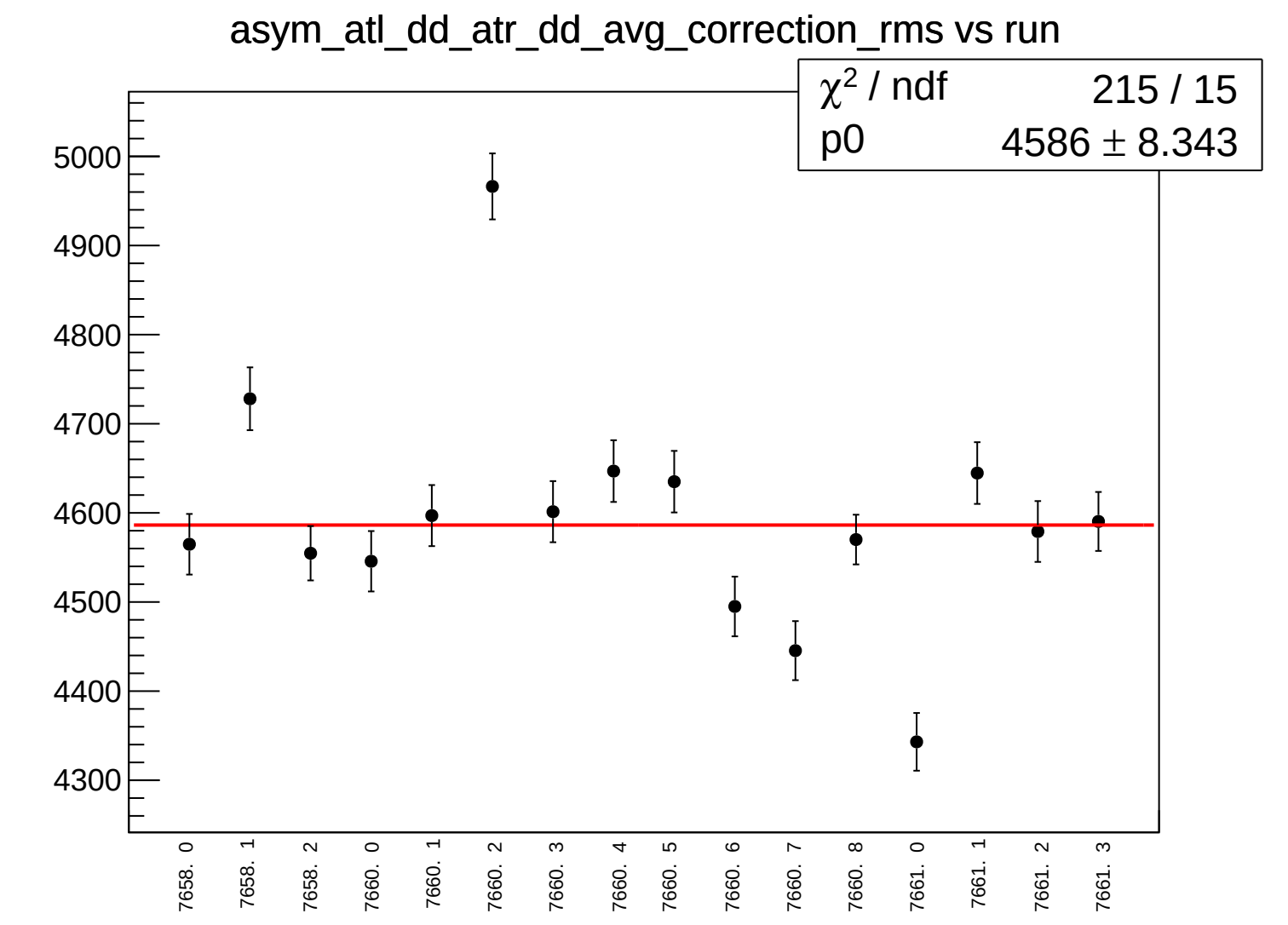

dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 9.838 / 15
p0 −3656 ± 3371
30000
20000
10000
0
−10000
−20000
−30000
−40000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 348.9
Std Dev 336.3
1.5
1
0.5
0
−0.5
−1

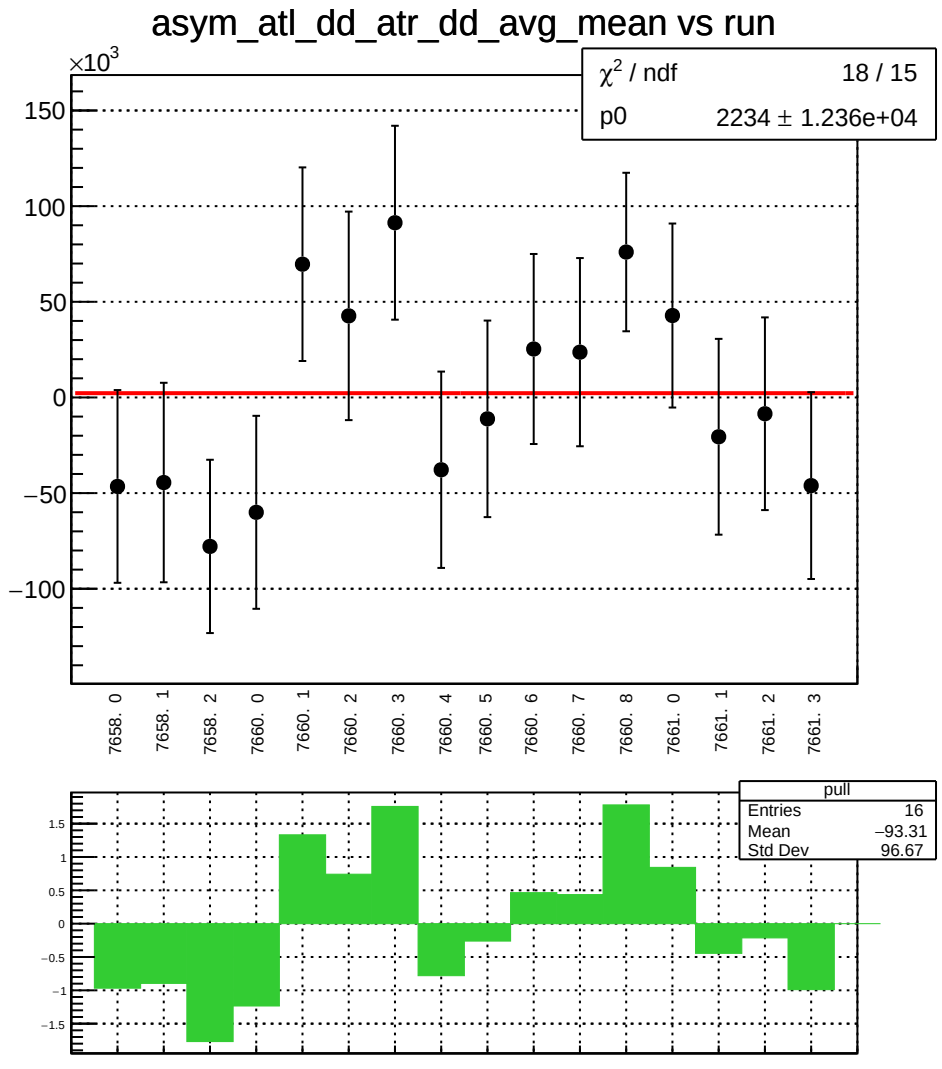

pull1D
Entries 16
Mean −0.001648
Std Dev 0.7841
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

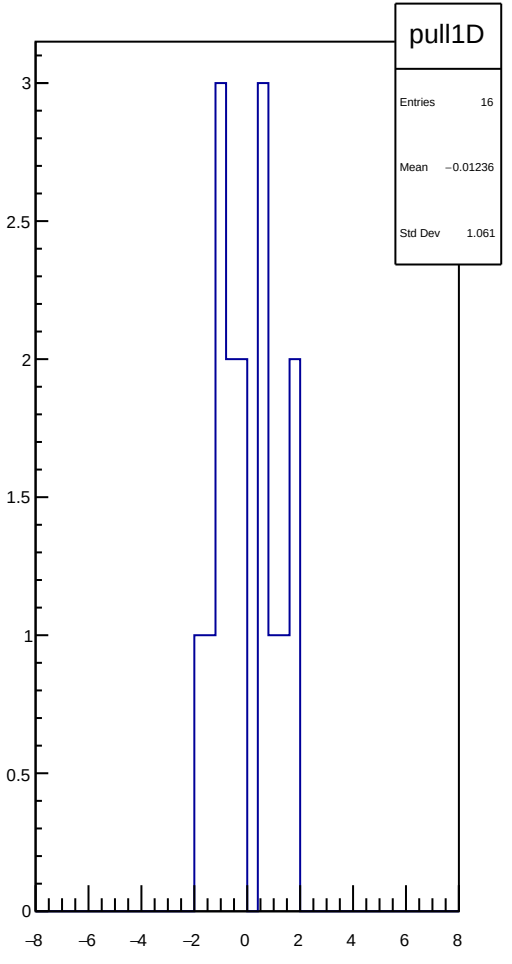

dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 19.81 / 15
p0 1311 ± 2.384
1350
1340
1330
1320
1310
1300
1290
1280
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

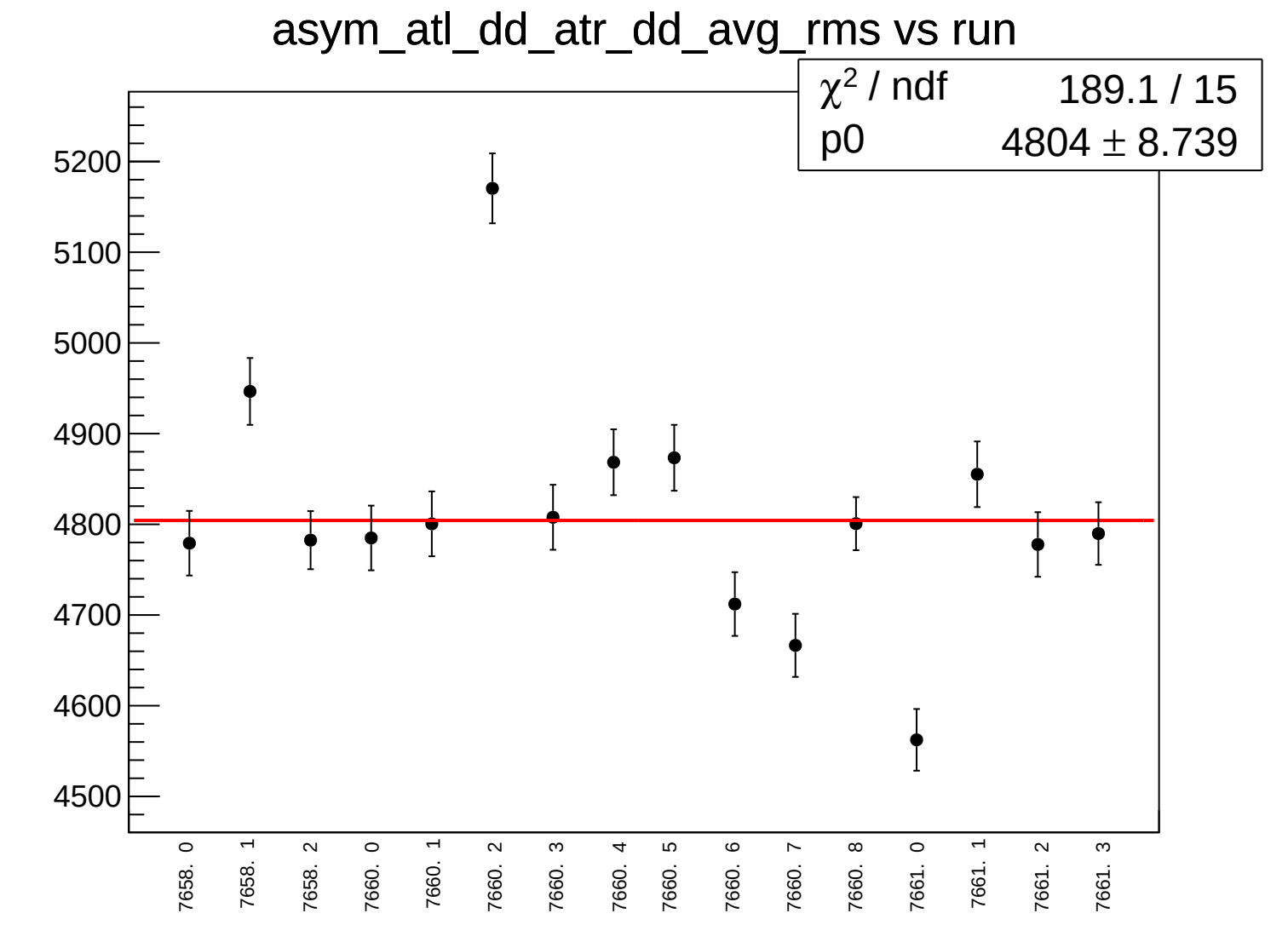

asym_atl_dd_atr_dd_avg_correction_mean vs run
×10^3
χ² / ndf 15.08 / 15
p0 −5990 ± 1.18e+04
100
50
0
−50
−100
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −100.9
Std Dev 105.2
1.5
1
0.5
0
−0.5
−1
−1.5

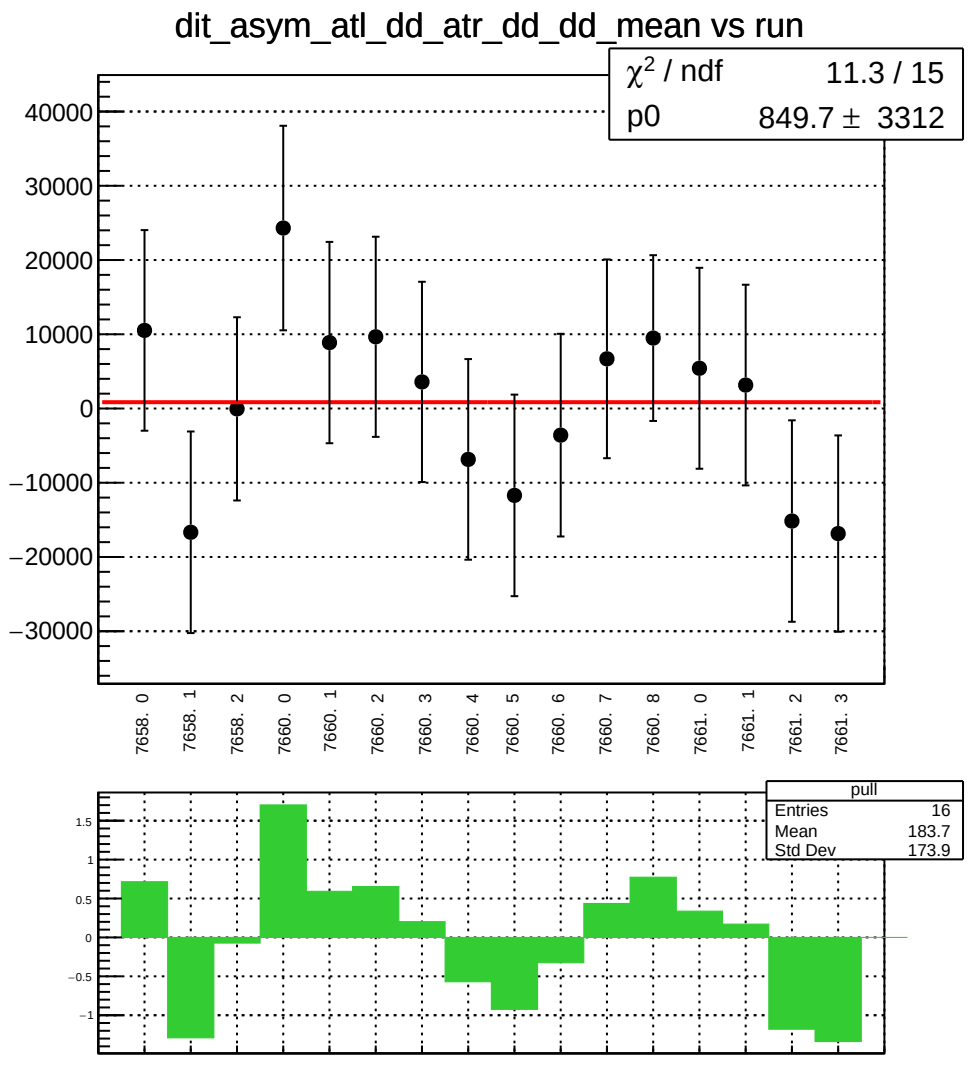

pull1D
Entries 16
Mean 0.01351
Std Dev 0.9707
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

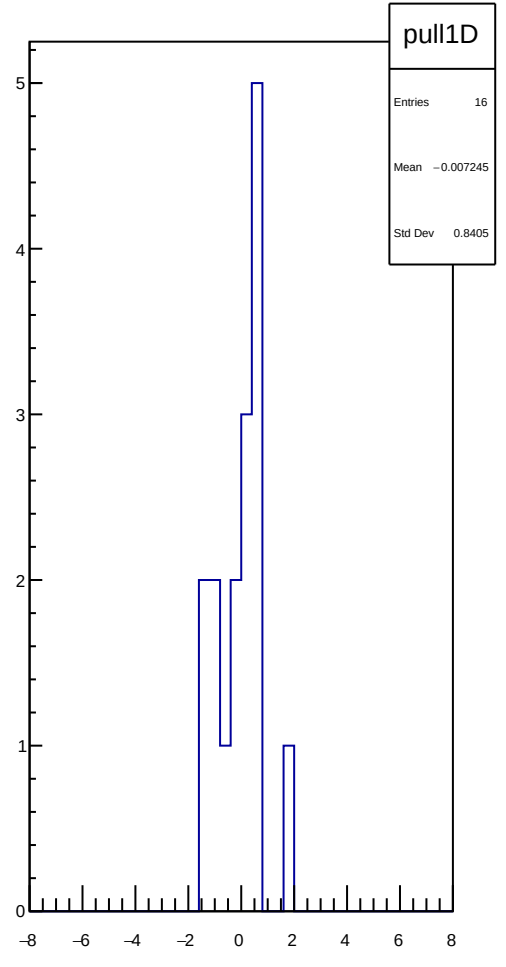

asym_atl_dd_atr_dd_avg_correction_rms vs run
χ² / ndf 215 / 15
p0 4586 ± 8.343
5000
4900
4800
4700
4600
4500
4400
4300
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

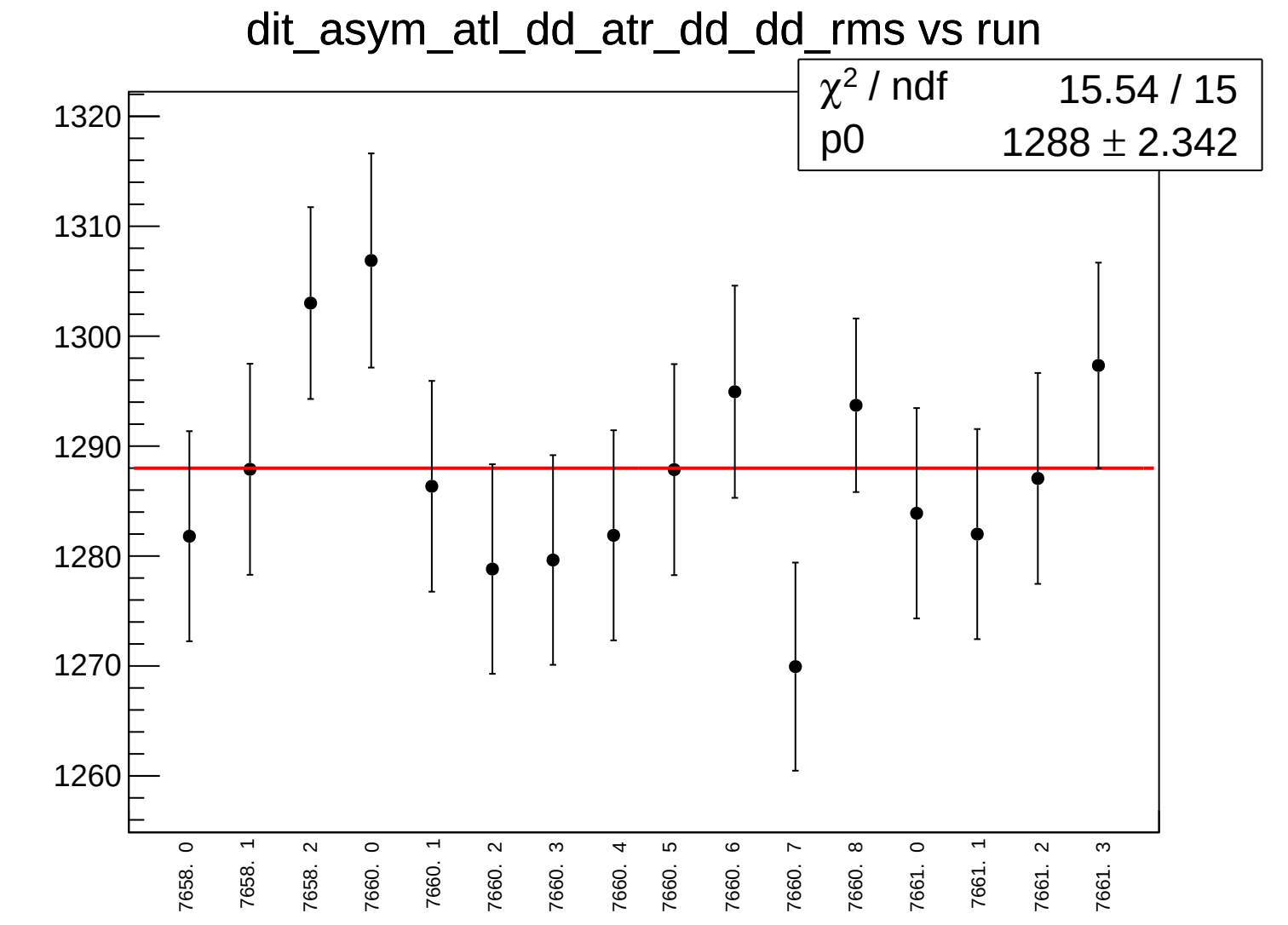

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 18 / 15
p0 2234 ± 1.236e+04
150
100
50
0
−50
−100
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −93.31
Std Dev 96.67
1.5
1
0.5
0
−0.5
−1
−1.5

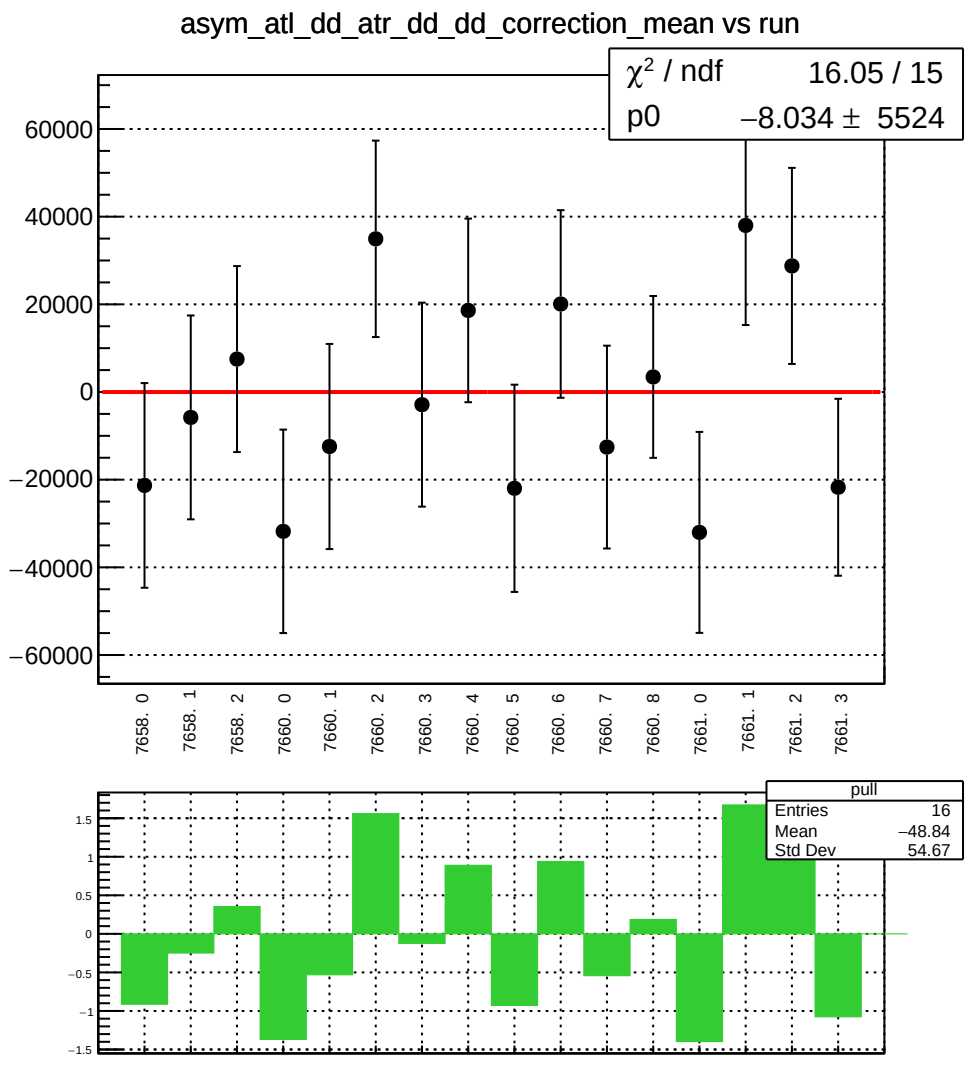

pull1D
Entries 16
Mean −0.01236
Std Dev 1.061
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

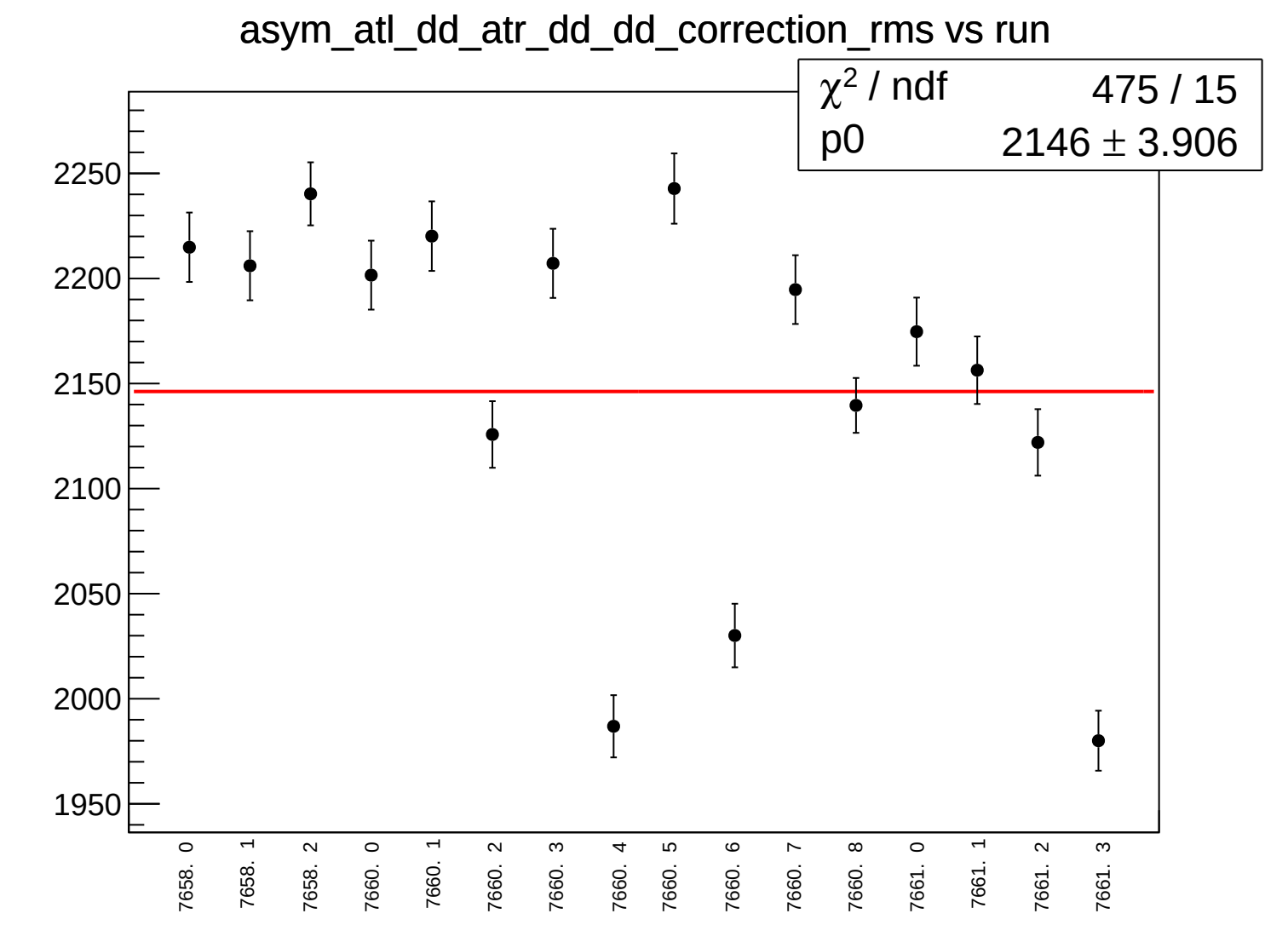

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 189.1 / 15
p0 4804 ± 8.739
5200
5100
5000
4900
4800
4700
4600
4500
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

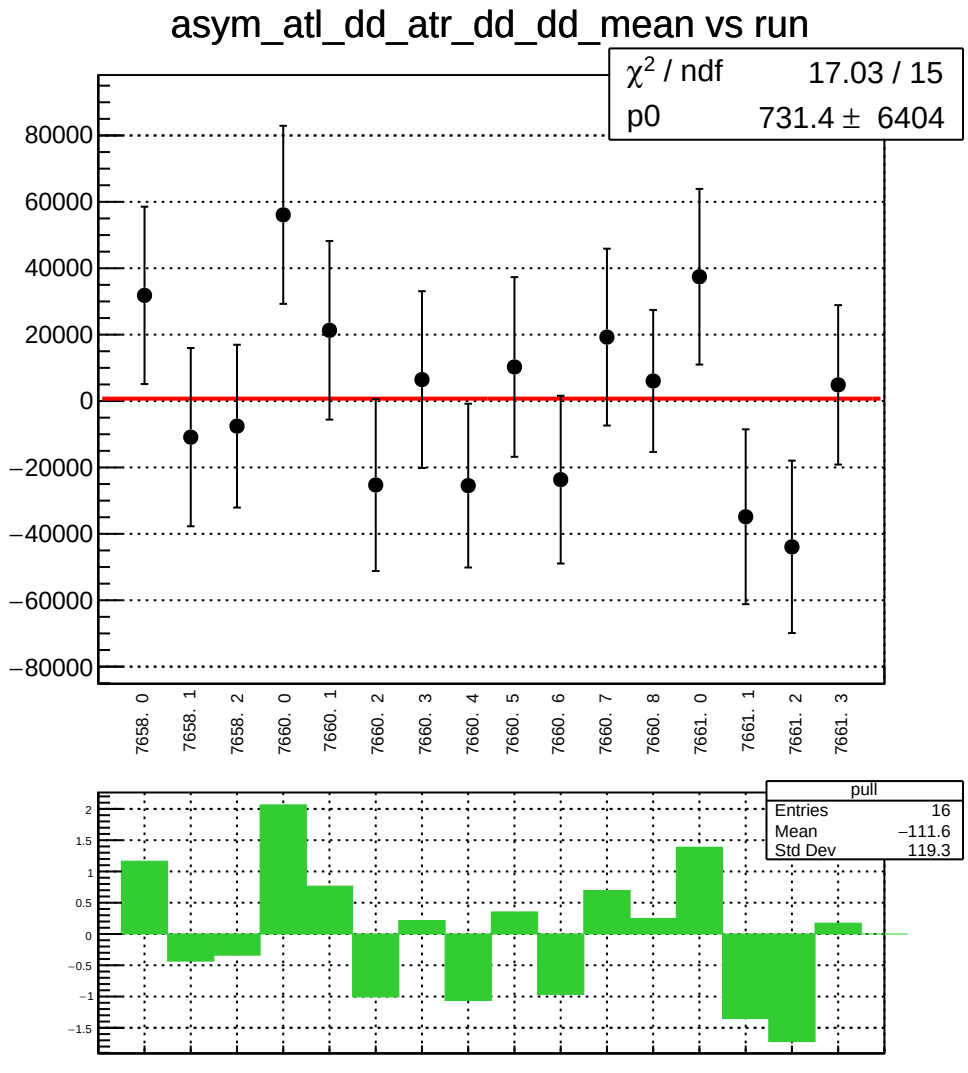

dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 11.3 / 15
p0 849.7 ± 3312
40000
30000
20000
10000
0
−10000
−20000
−30000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 183.7
Std Dev 173.9
1.5
1
0.5
0
−0.5
−1

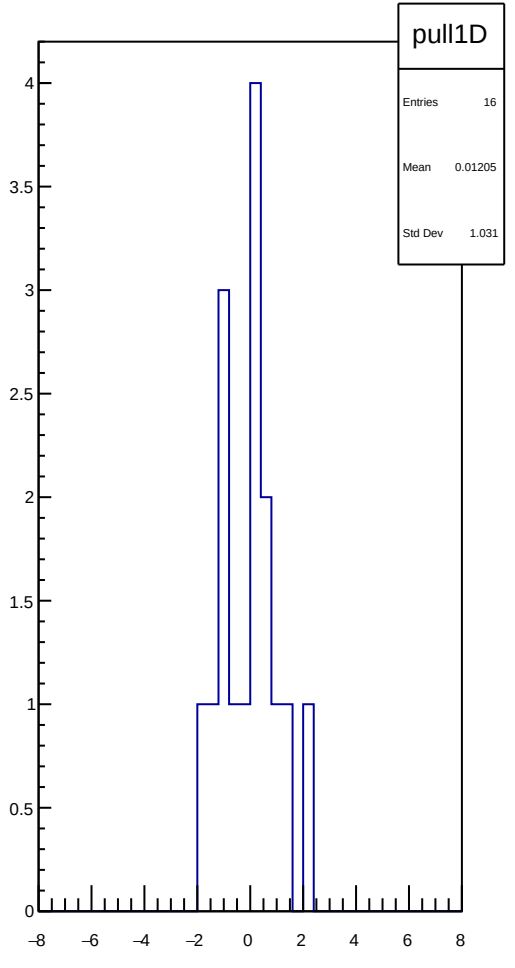

pull1D
Entries 16
Mean −0.007245
Std Dev 0.8405
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

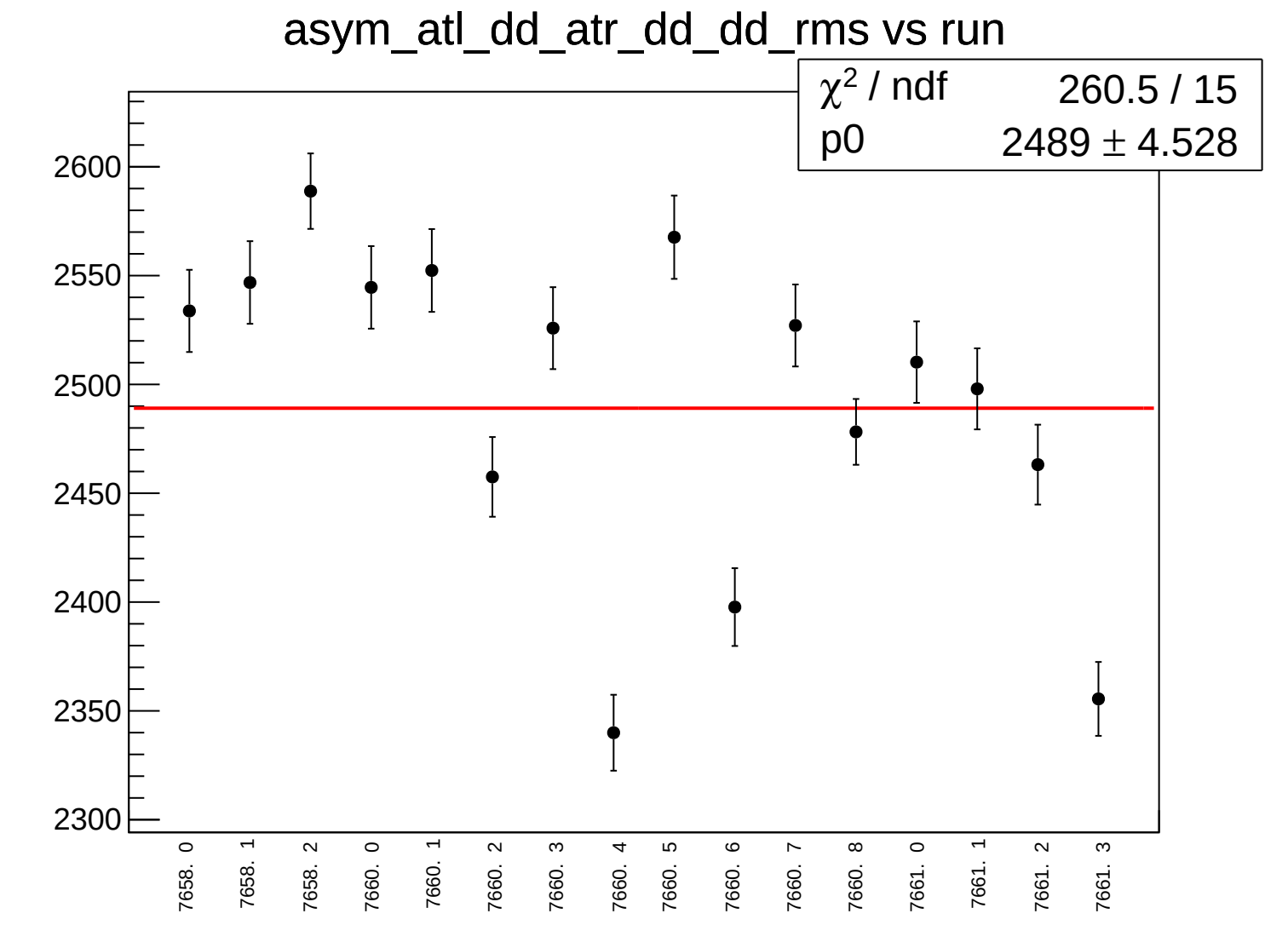

dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 15.54 / 15
p0 1288 ± 2.342
1320
1310
1300
1290
1280
1270
1260
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

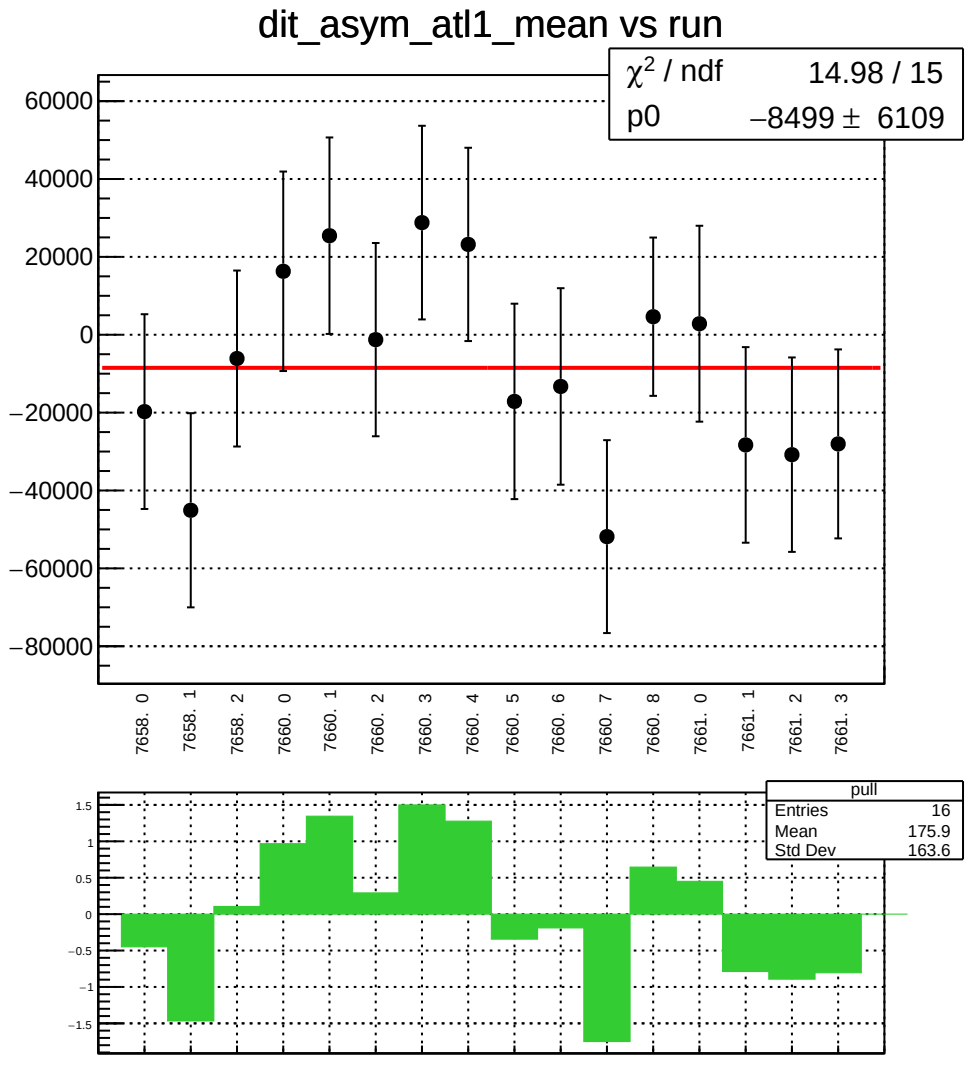

asym_atl_dd_atr_dd_dd_correction_mean vs run
χ² / ndf 16.05 / 15
p0 −8.034 ± 5524
60000
40000
20000
0
−20000
−40000
−60000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −48.84
Std Dev 54.67
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 16
Mean −0.01519
Std Dev 1.001
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

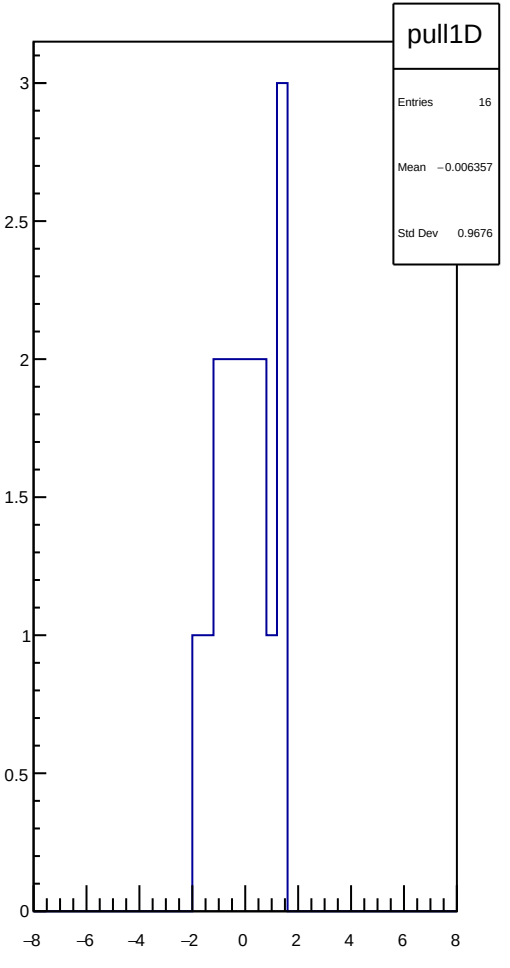

asym_atl_dd_atr_dd_dd_correction_rms vs run
χ² / ndf 475 / 15
p0 2146 ± 3.906
2250
2200
2150
2100
2050
2000
1950
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

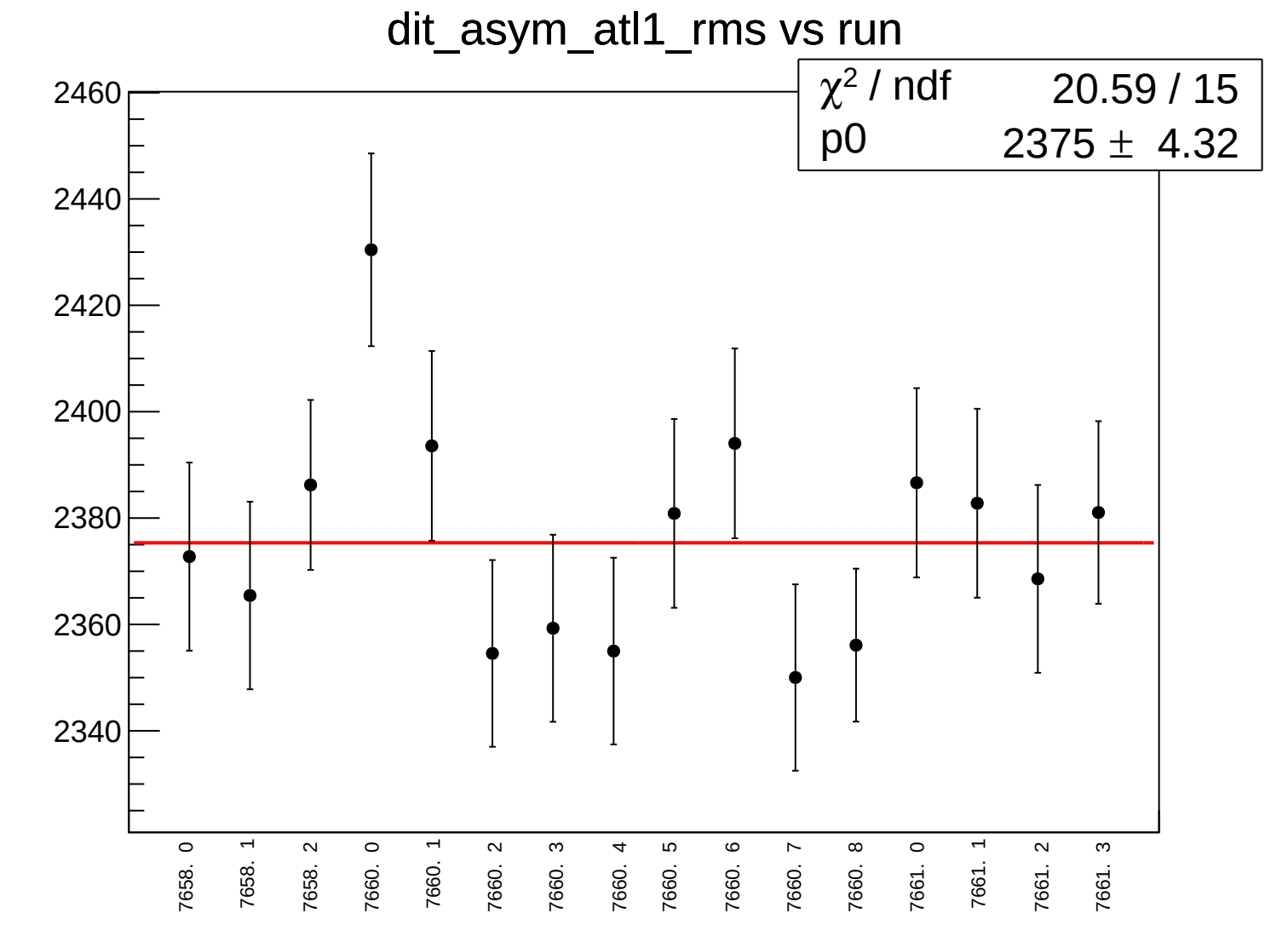

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 17.03 / 15
p0 731.4 ± 6404
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −111.6
Std Dev 119.3
2
1.5
1
0.5
0
−0.5
−1
−1.5

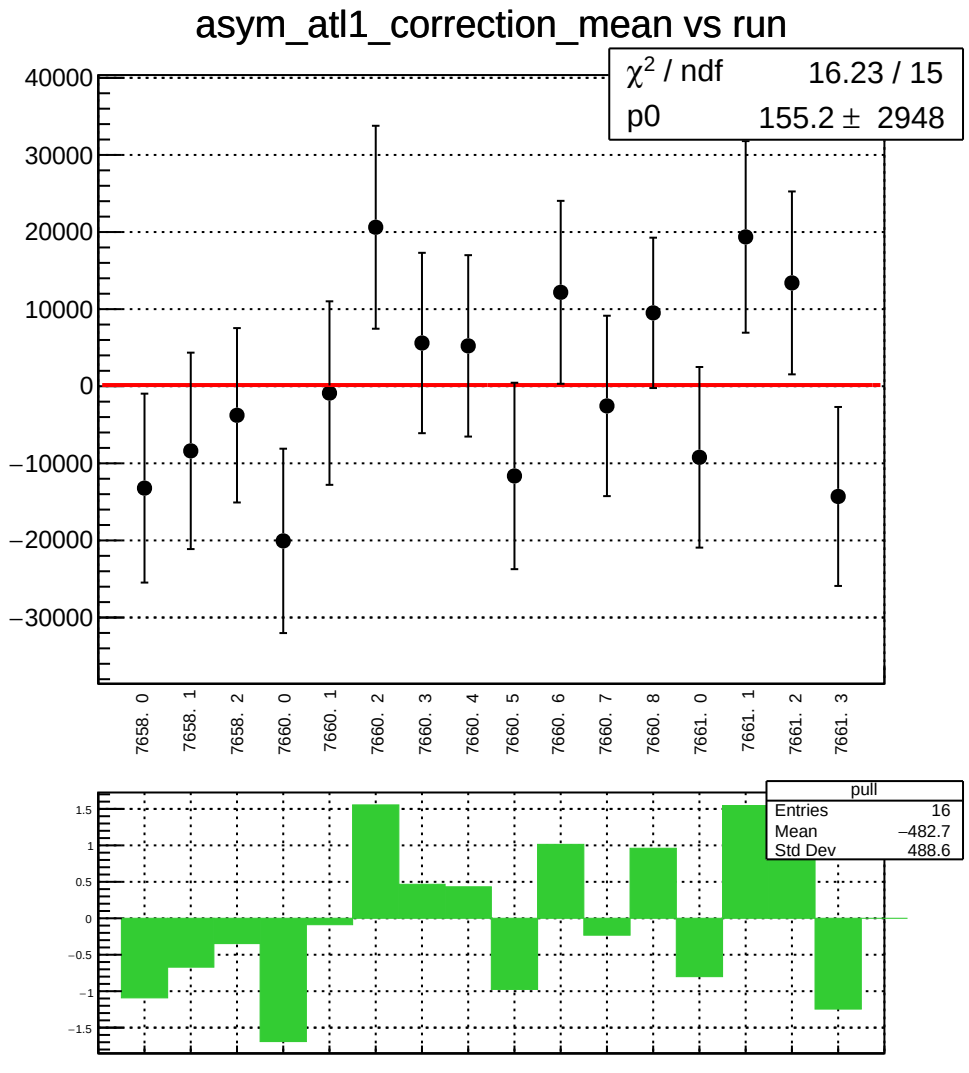

pull1D
Entries 16
Mean 0.01205
Std Dev 1.031
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

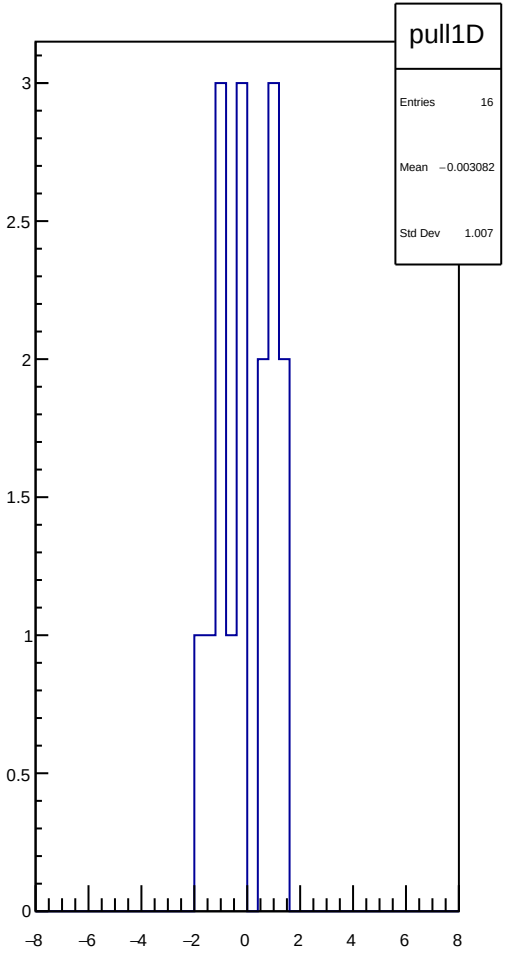

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 260.5 / 15
p0 2489 ± 4.528
2600
2550
2500
2450
2400
2350
2300
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

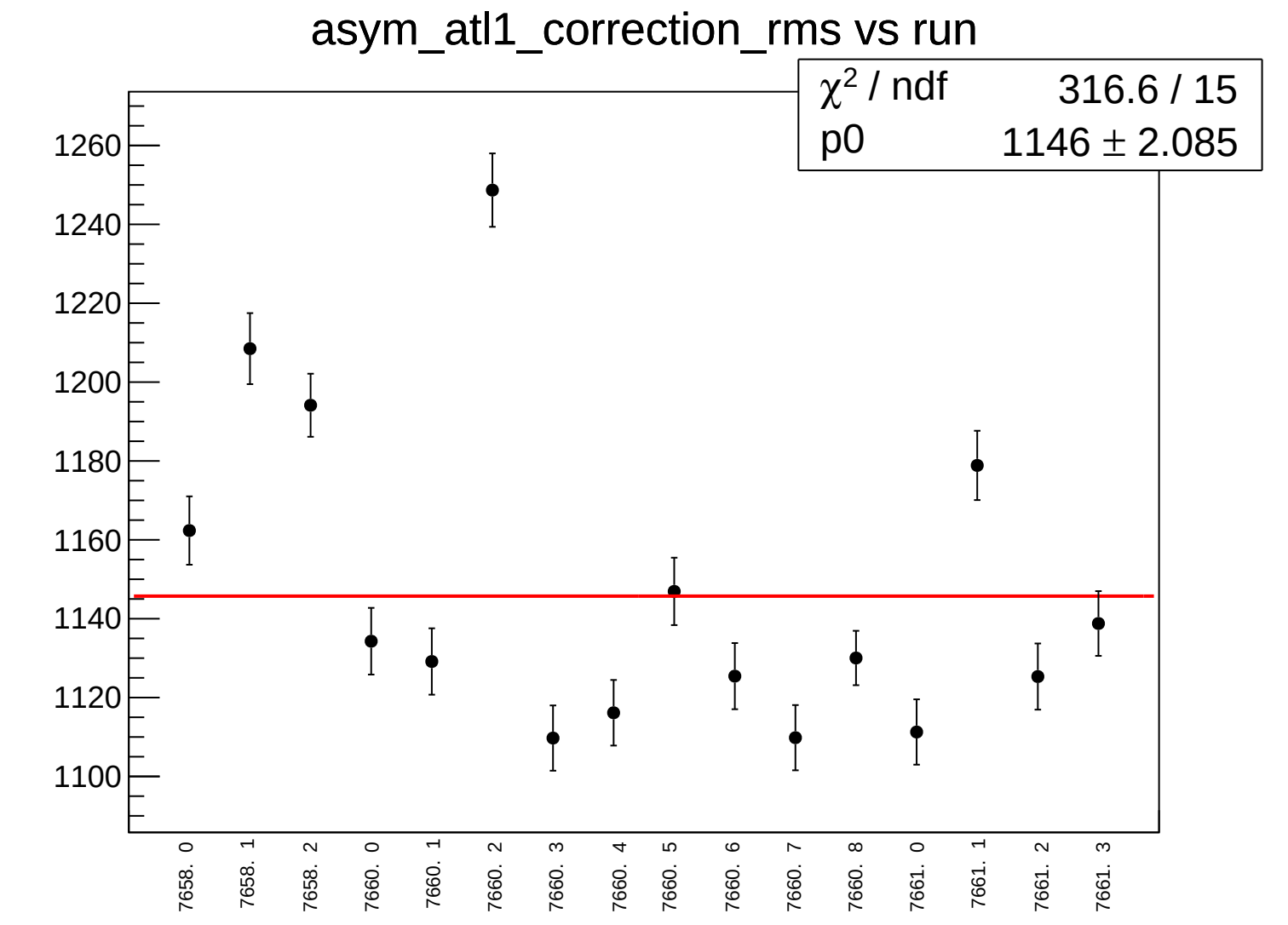

dit_asym_atl1_mean vs run
χ² / ndf 14.98 / 15
p0 −8499 ± 6109
60000
40000
20000
0
−20000
−40000
−60000
−80000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 175.9
Std Dev 163.6
1.5
1
0.5
0
−0.5
−1
−1.5

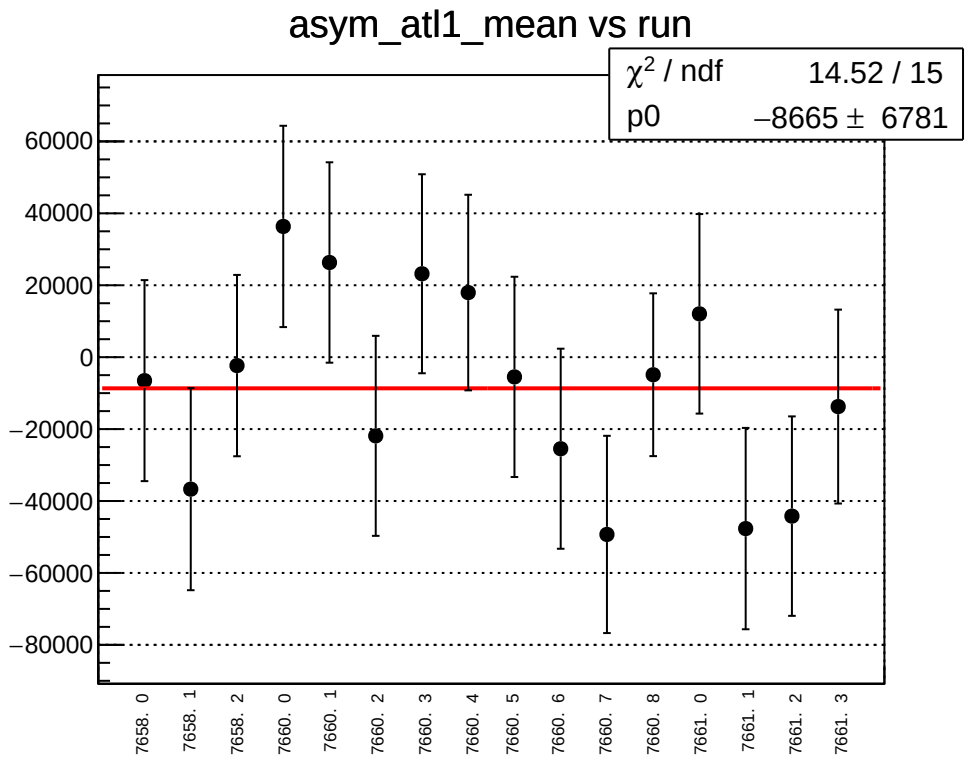

pull1D
Entries 16
Mean −0.006357
Std Dev 0.9676
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

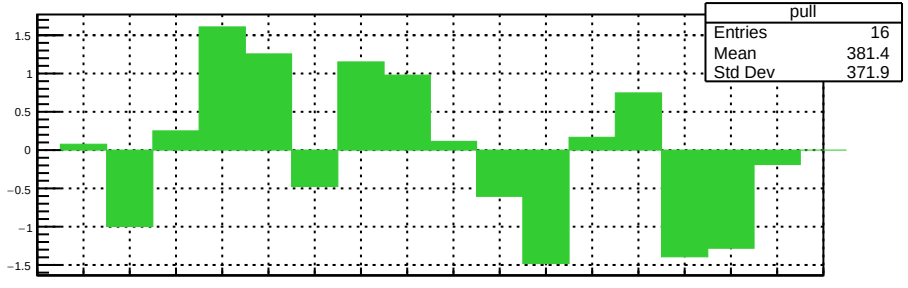

dit_asym_atl1_rms vs run
χ² / ndf 20.59 / 15
p0 2375 ± 4.32
2460
2440
2420
2400
2380
2360
2340
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

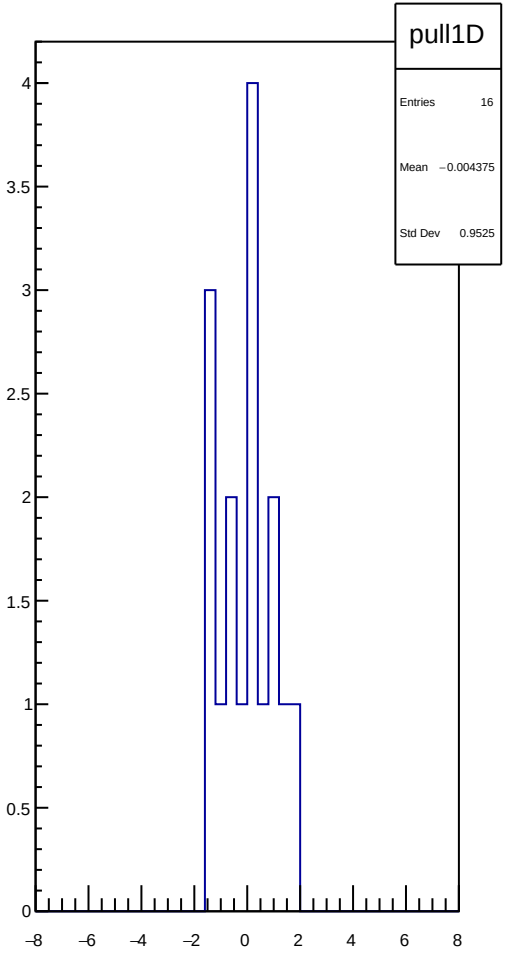

asym_atl1_correction_mean vs run
χ² / ndf 16.23 / 15
p0 155.2 ± 2948
40000
30000
20000
10000
0
−10000
−20000
−30000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −482.7
Std Dev 488.6
1.5
1
0.5
0
−0.5
−1
−1.5

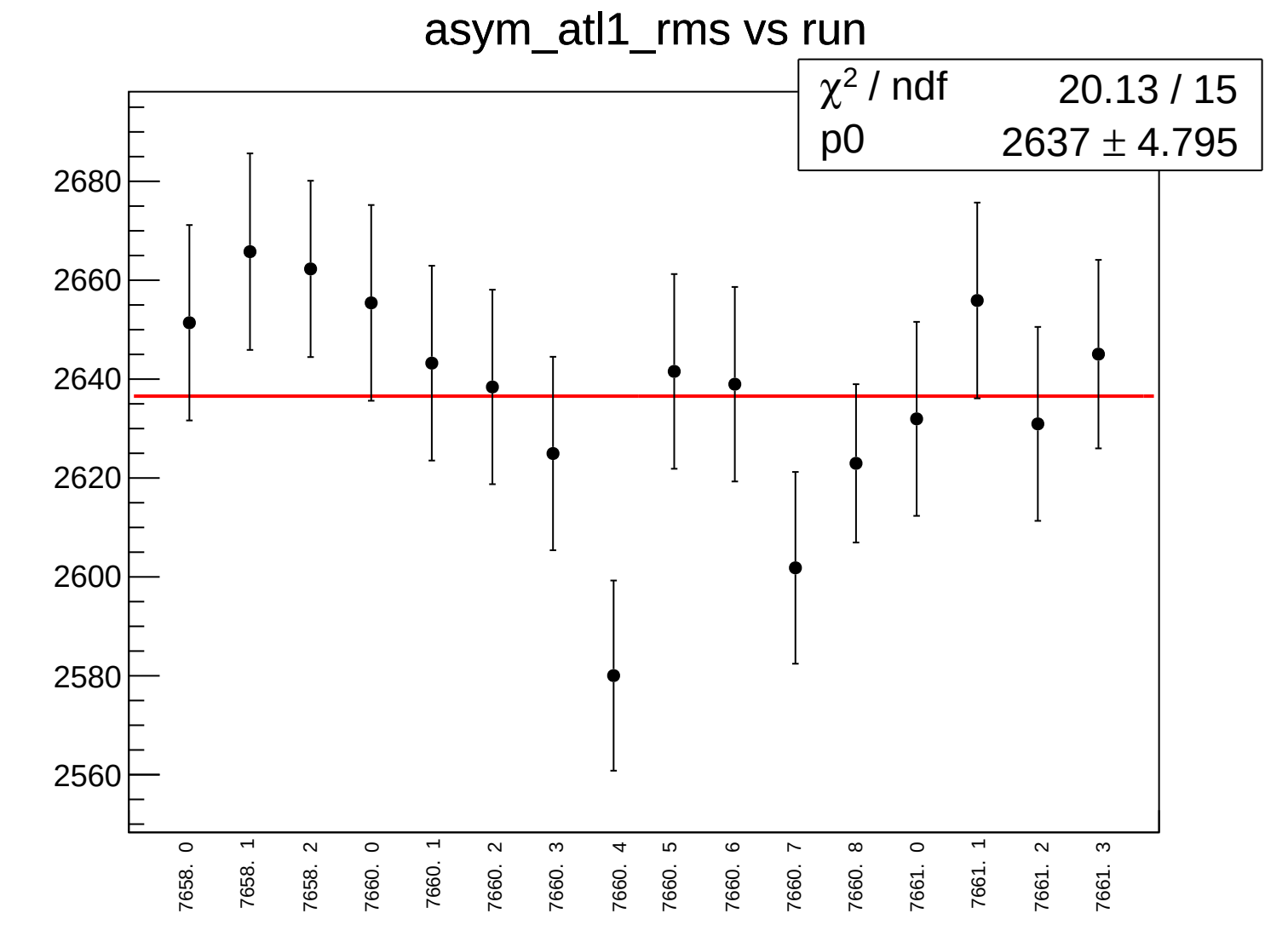

pull1D
Entries 16
Mean −0.003082
Std Dev 1.007
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

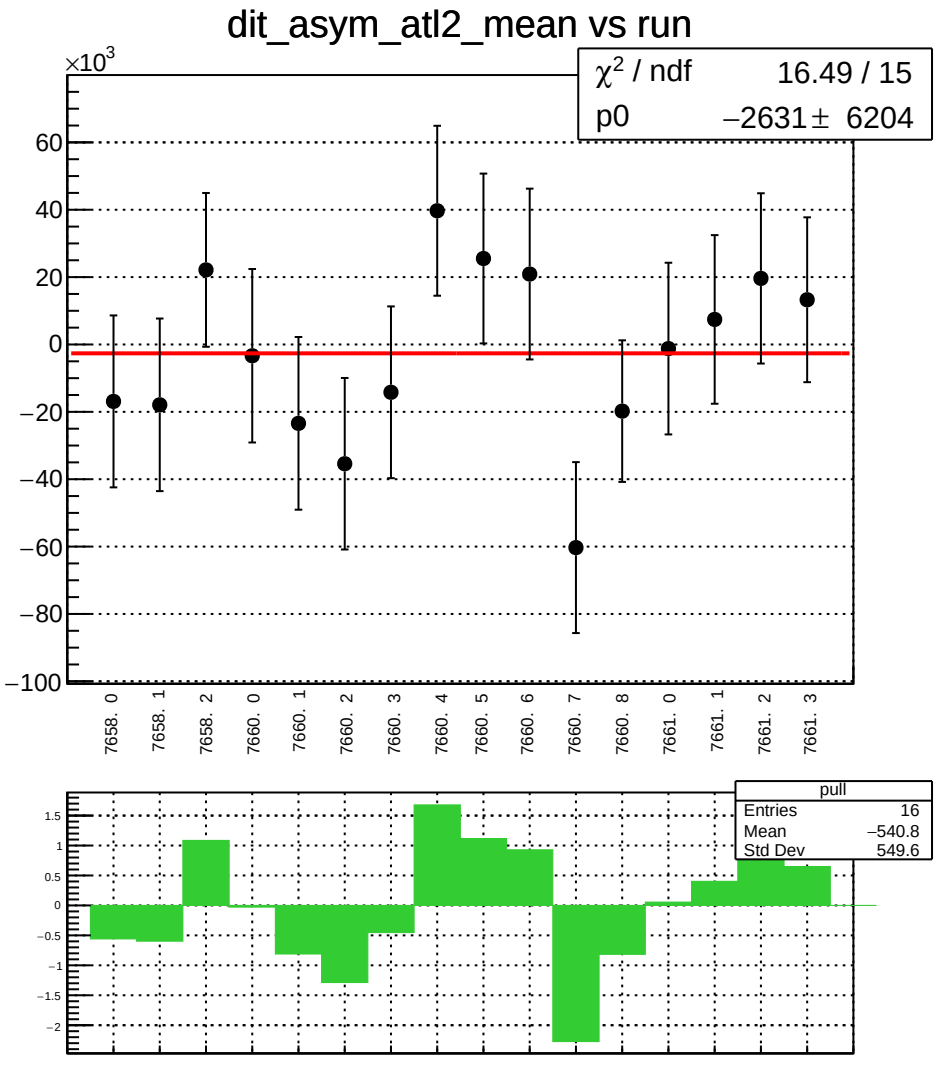

asym_atl1_correction_rms vs run
χ² / ndf 316.6 / 15
p0 1146 ± 2.085
1260
1240
1220
1200
1180
1160
1140
1120
1100
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

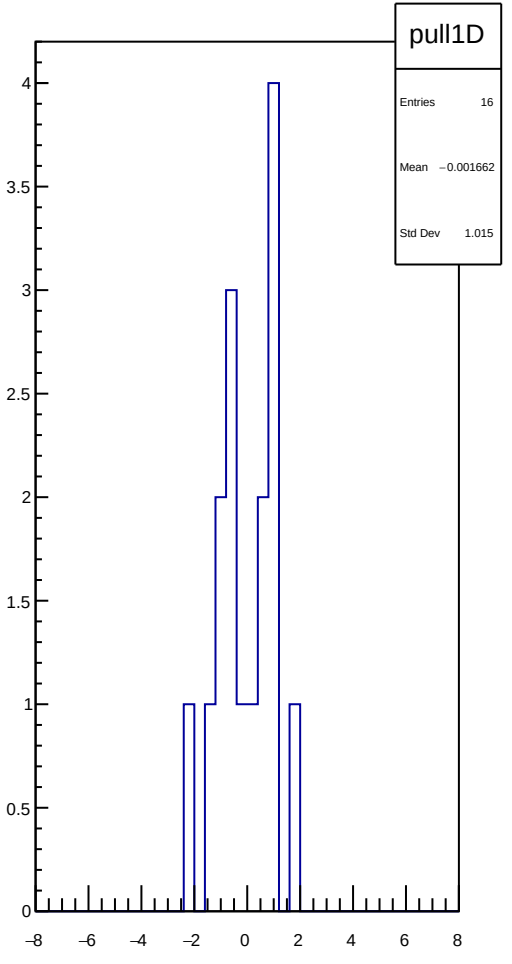

asym_atl1_mean vs run
χ² / ndf 14.52 / 15
p0 −8665 ± 6781
60000
40000
20000
0
−20000
−40000
−60000
−80000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

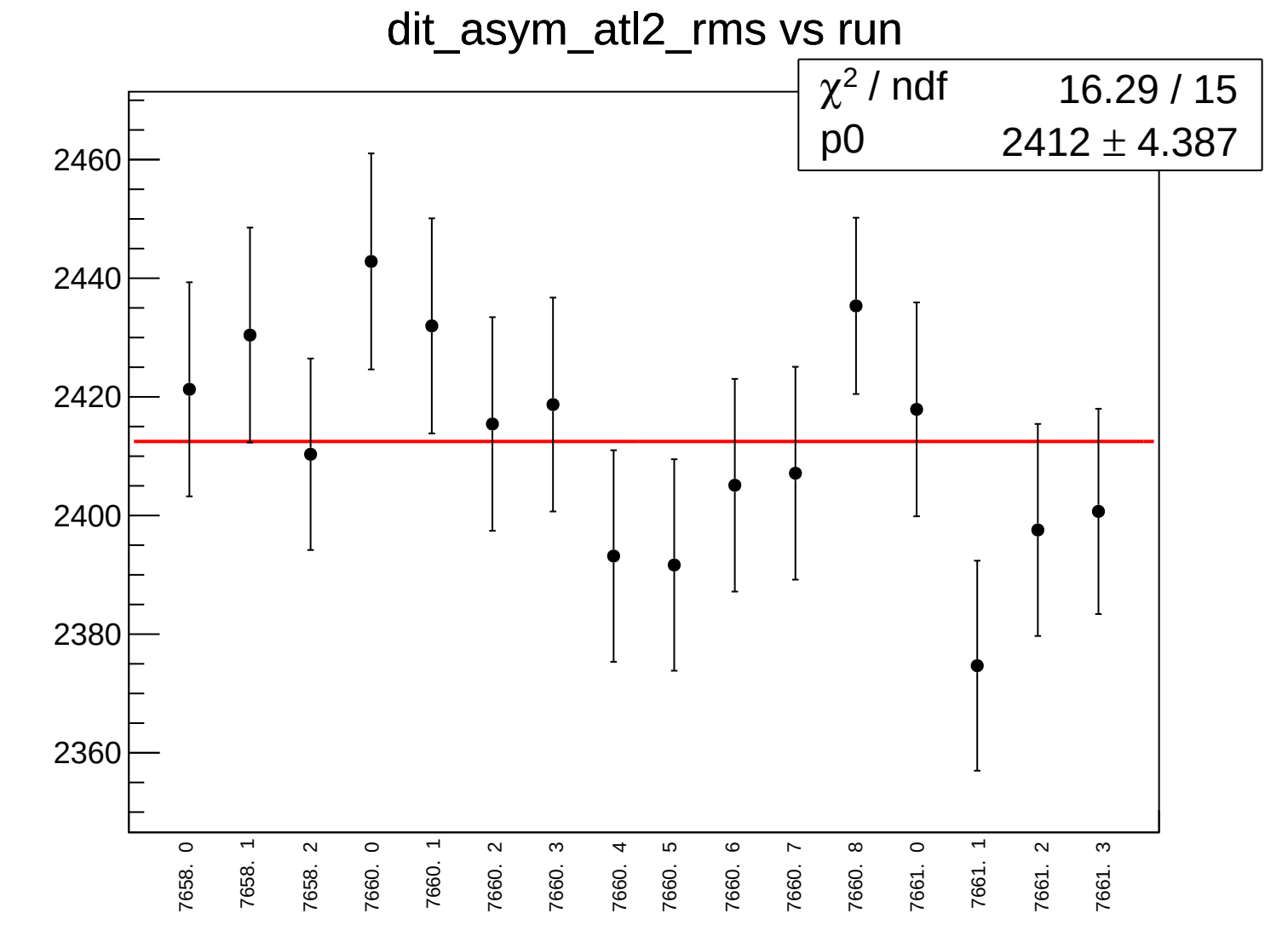

pull
Entries 16
Mean 381.4
Std Dev 371.9
1.5
1
0.5
0
−0.5
−1
−1.5

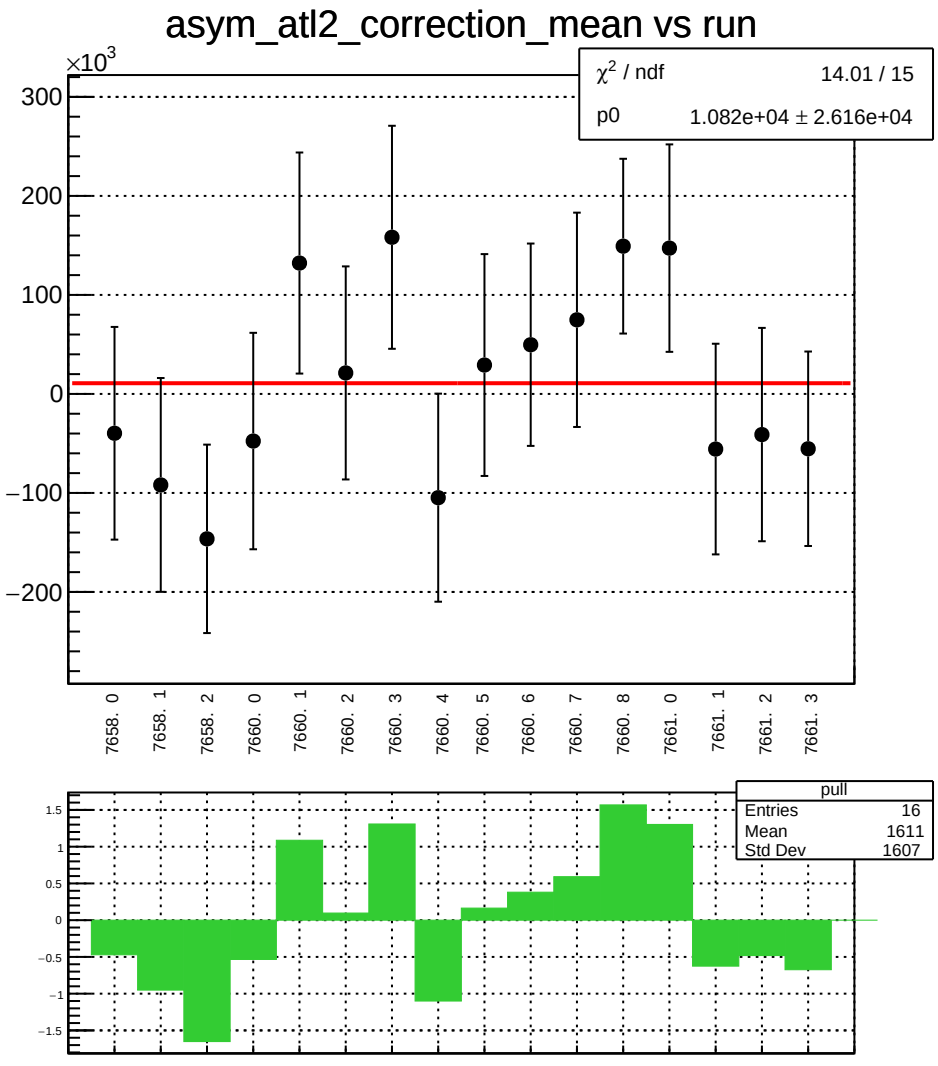

pull1D
Entries 16
Mean −0.004375
Std Dev 0.9525
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

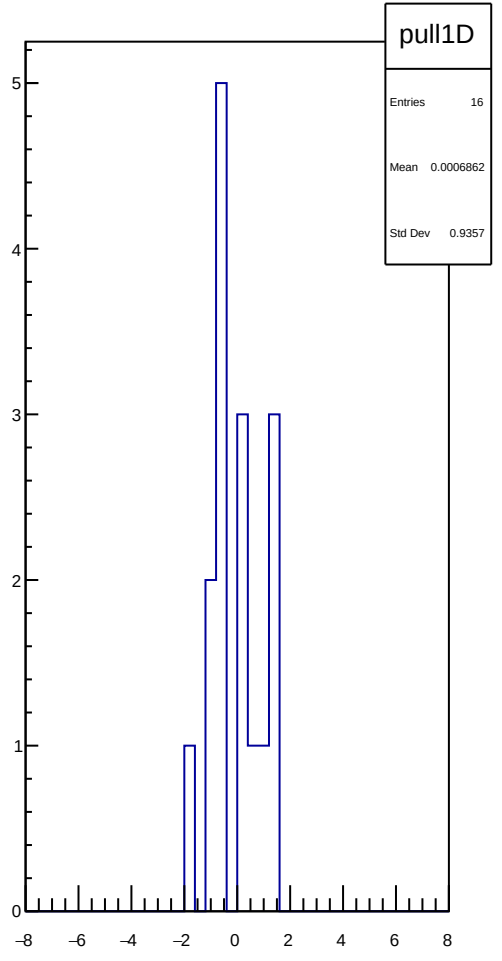

asym_atl1_rms vs run
χ² / ndf 20.13 / 15
p0 2637 ± 4.795
2680
2660
2640
2620
2600
2580
2560
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

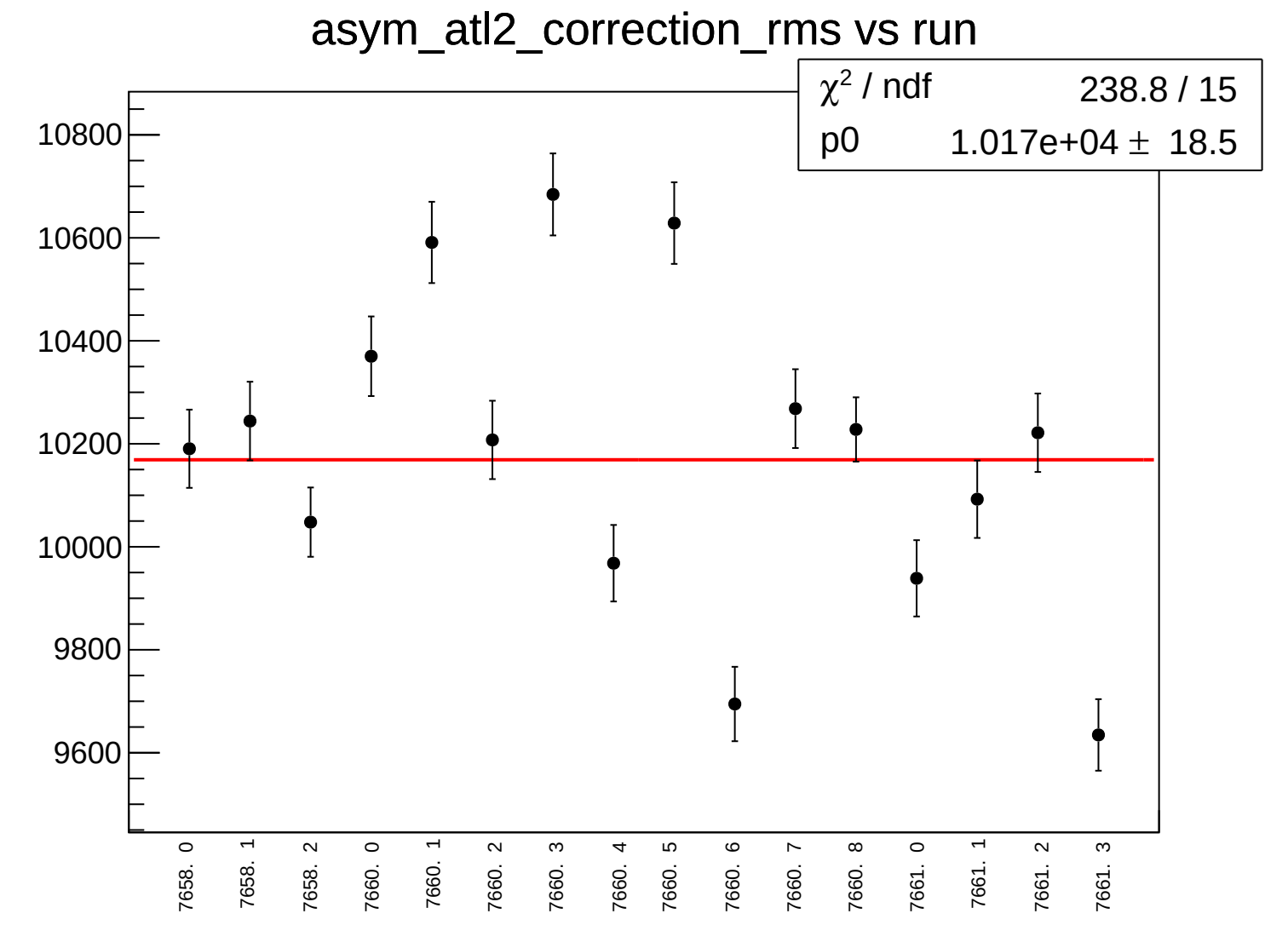

dit_asym_atl2_mean vs run
×10^3
χ^2 / ndf 16.49 / 15
p0 −2631 ± 6204
60
40
20
0
−20
−40
−60
−80
−100
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −540.8
Std Dev 549.6
1.5
1
0.5
0
−0.5
−1
−1.5
−2

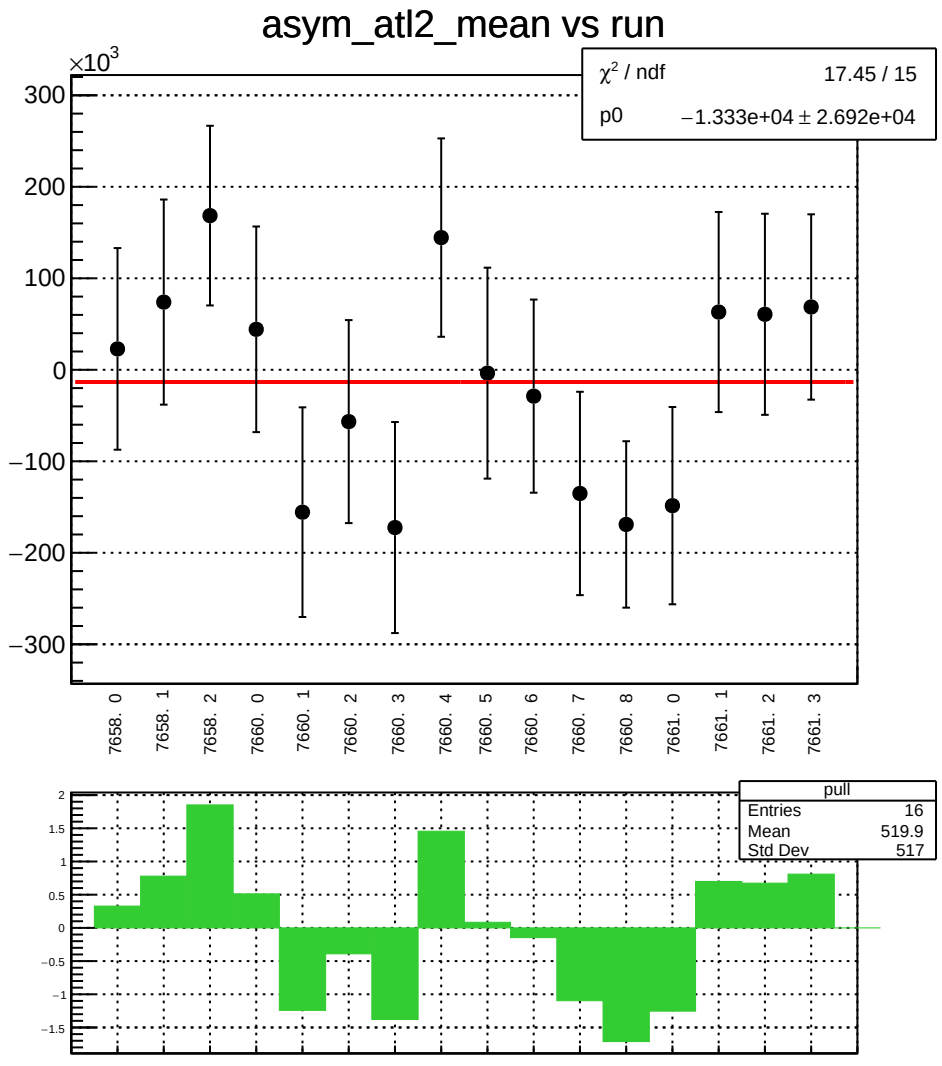

pull1D
Entries 16
Mean −0.001662
Std Dev 1.015
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

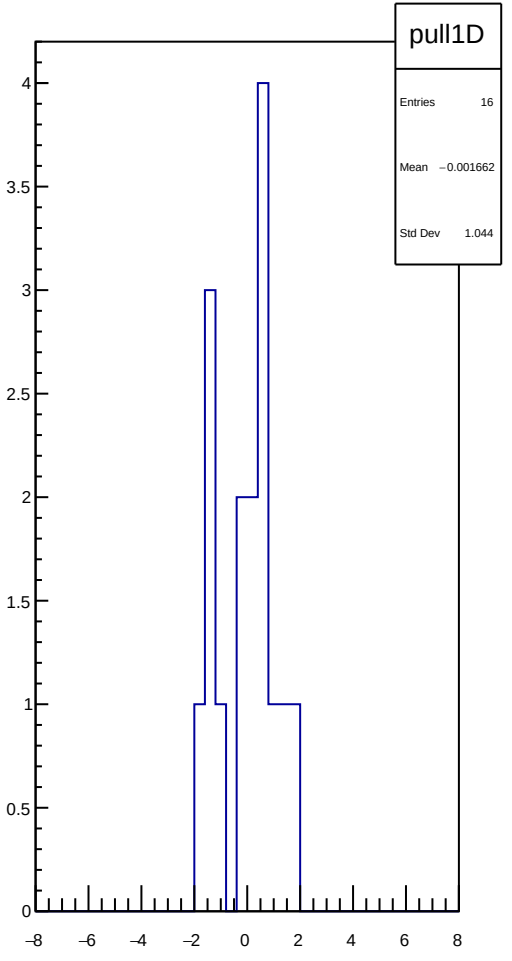

dit_asym_atl2_rms vs run
χ² / ndf 16.29 / 15
p0 2412 ± 4.387
2460
2440
2420
2400
2380
2360
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

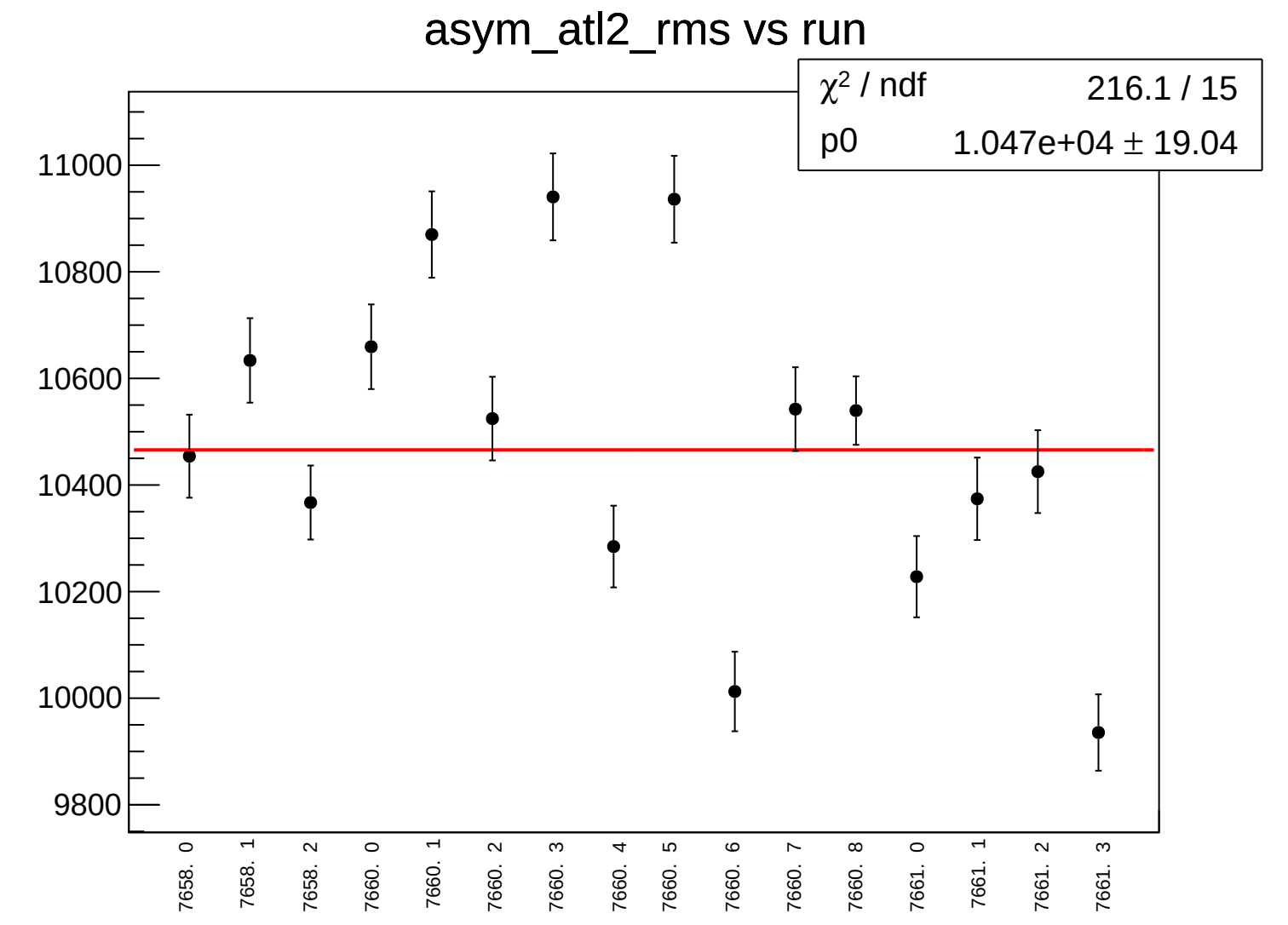

asym_atl2_correction_mean vs run
×10^3
χ² / ndf 14.01 / 15
p0 1.082e+04 ± 2.616e+04
300
200
100
0
−100
−200
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 1611
Std Dev 1607
1.5
1
0.5
0
−0.5
−1
−1.5

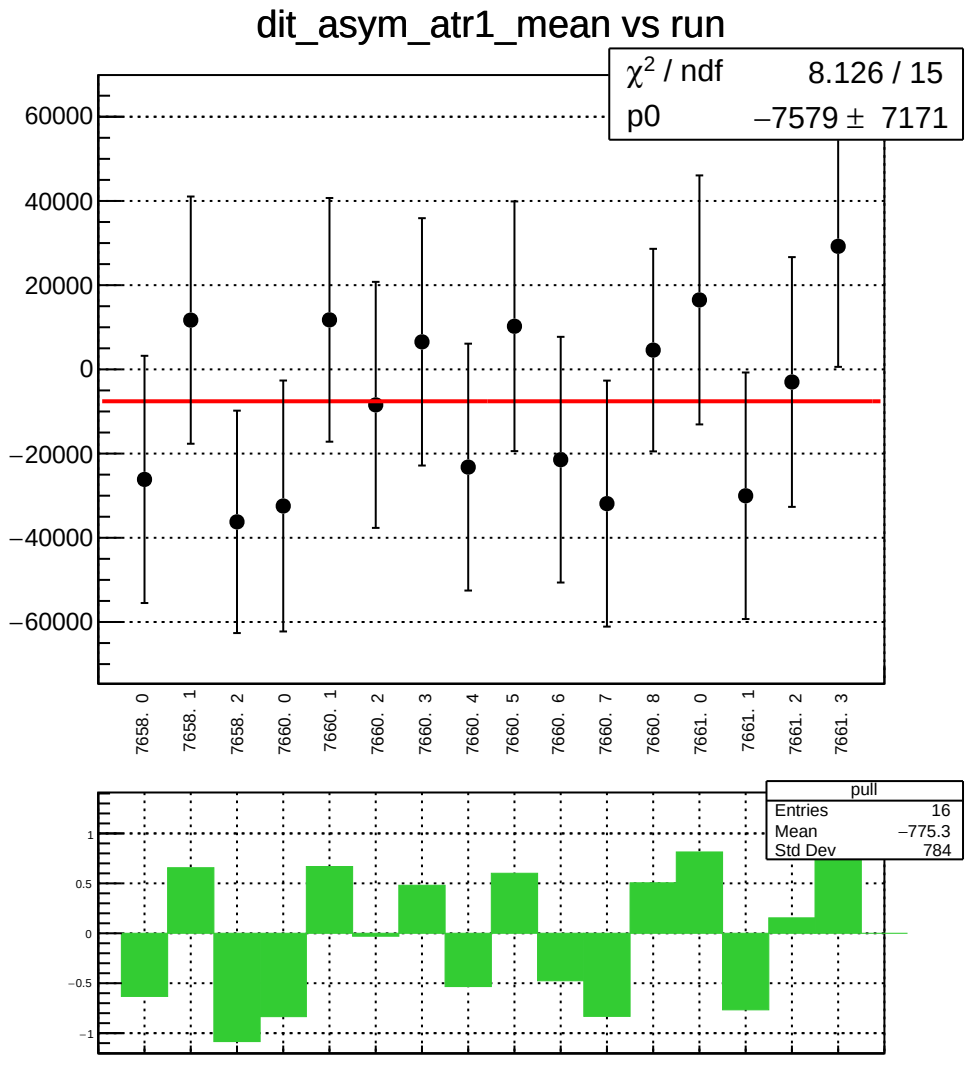

pull1D
Entries 16
Mean 0.0006862
Std Dev 0.9357
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

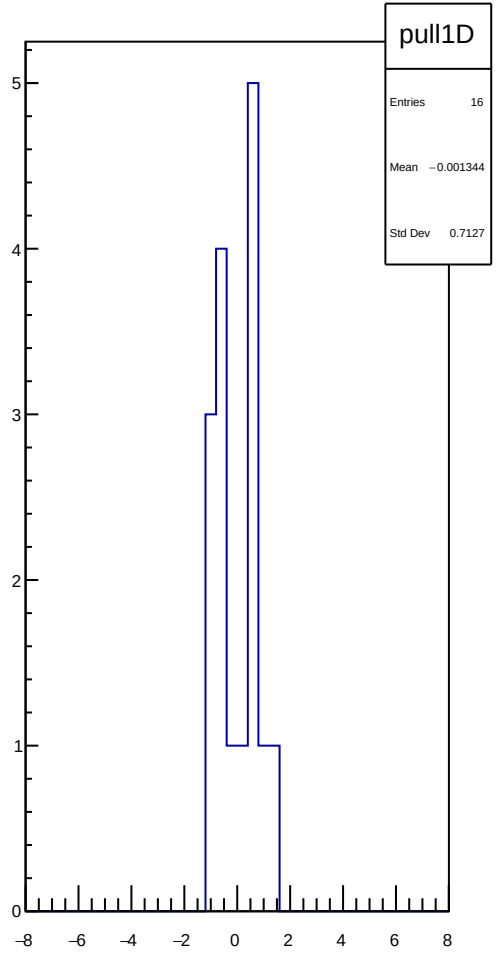

asym_atl2_correction_rms vs run
χ² / ndf 238.8 / 15
p0 1.017e+04 ± 18.5
10800
10600
10400
10200
10000
9800
9600
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

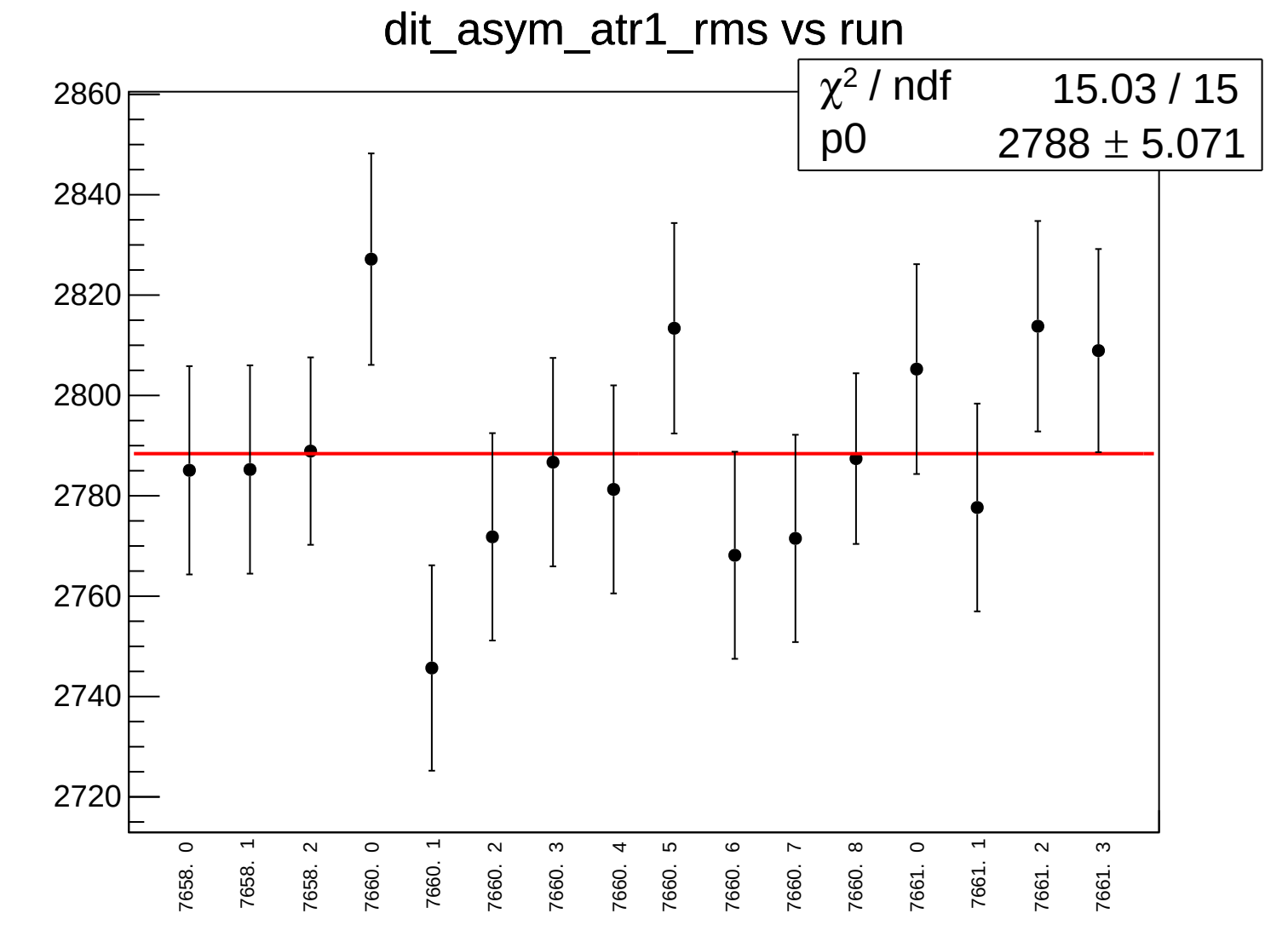

asym_atl2_mean vs run
×10^3
χ² / ndf 17.45 / 15
p0 −1.333e+04 ± 2.692e+04
300
200
100
0
−100
−200
−300
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 519.9
Std Dev 517
2
1.5
1
0.5
0
−0.5
−1
−1.5

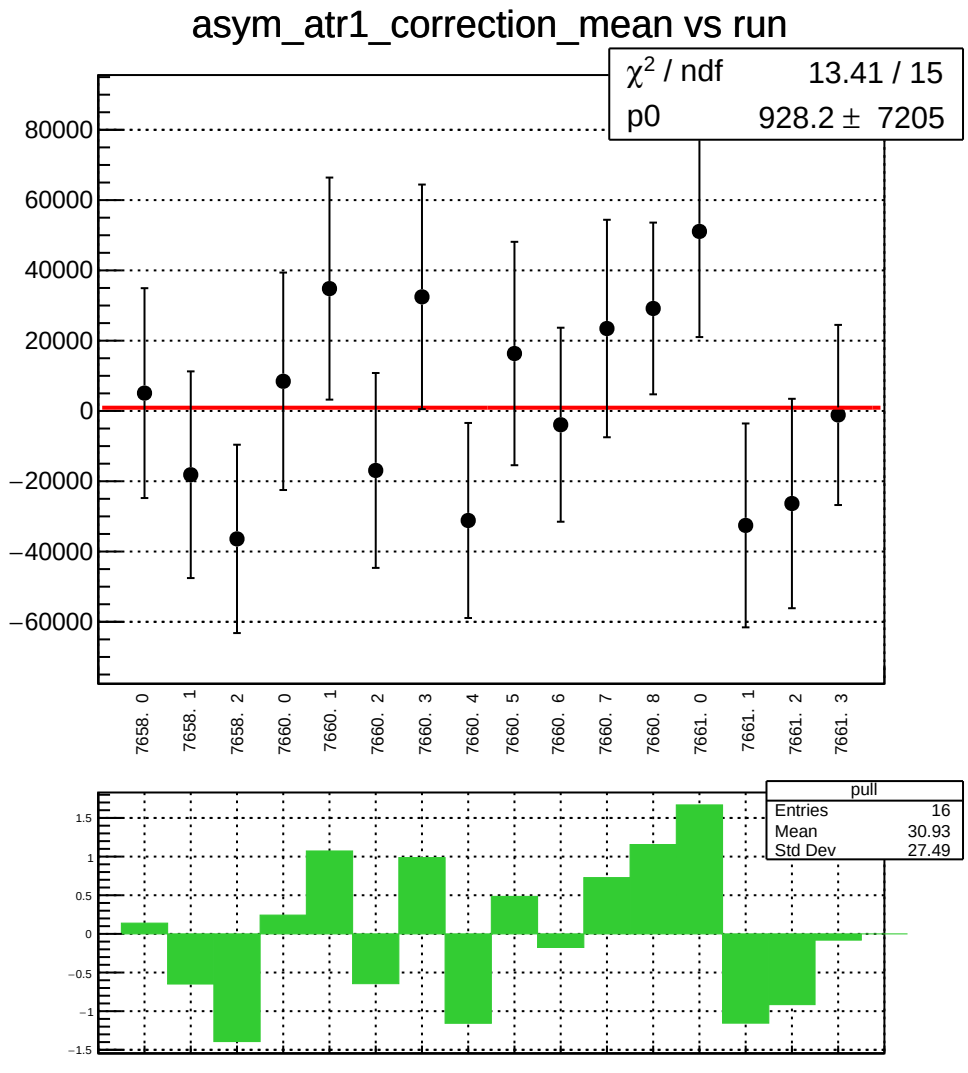

pull1D
Entries 16
Mean −0.001662
Std Dev 1.044
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

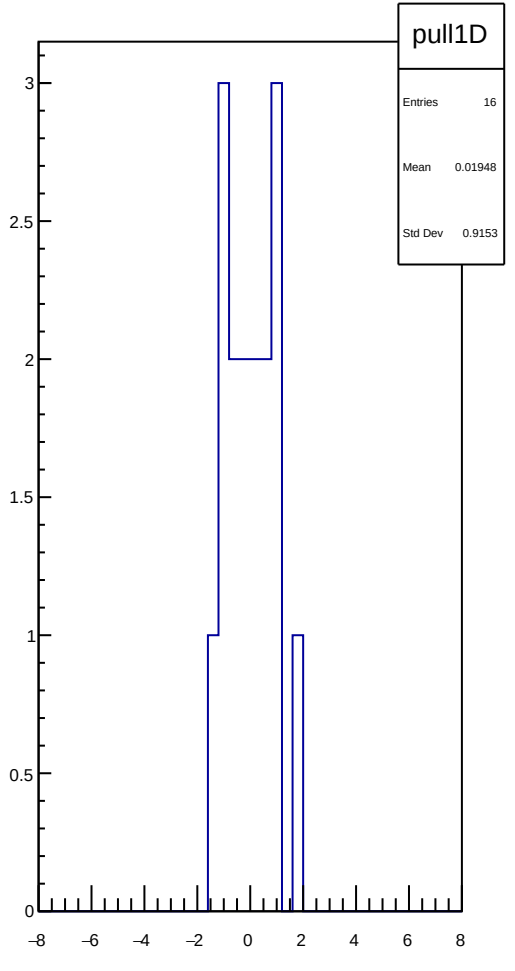

asym_atl2_rms vs run
χ² / ndf 216.1 / 15
p0 1.047e+04 ± 19.04
11000
10800
10600
10400
10200
10000
9800
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

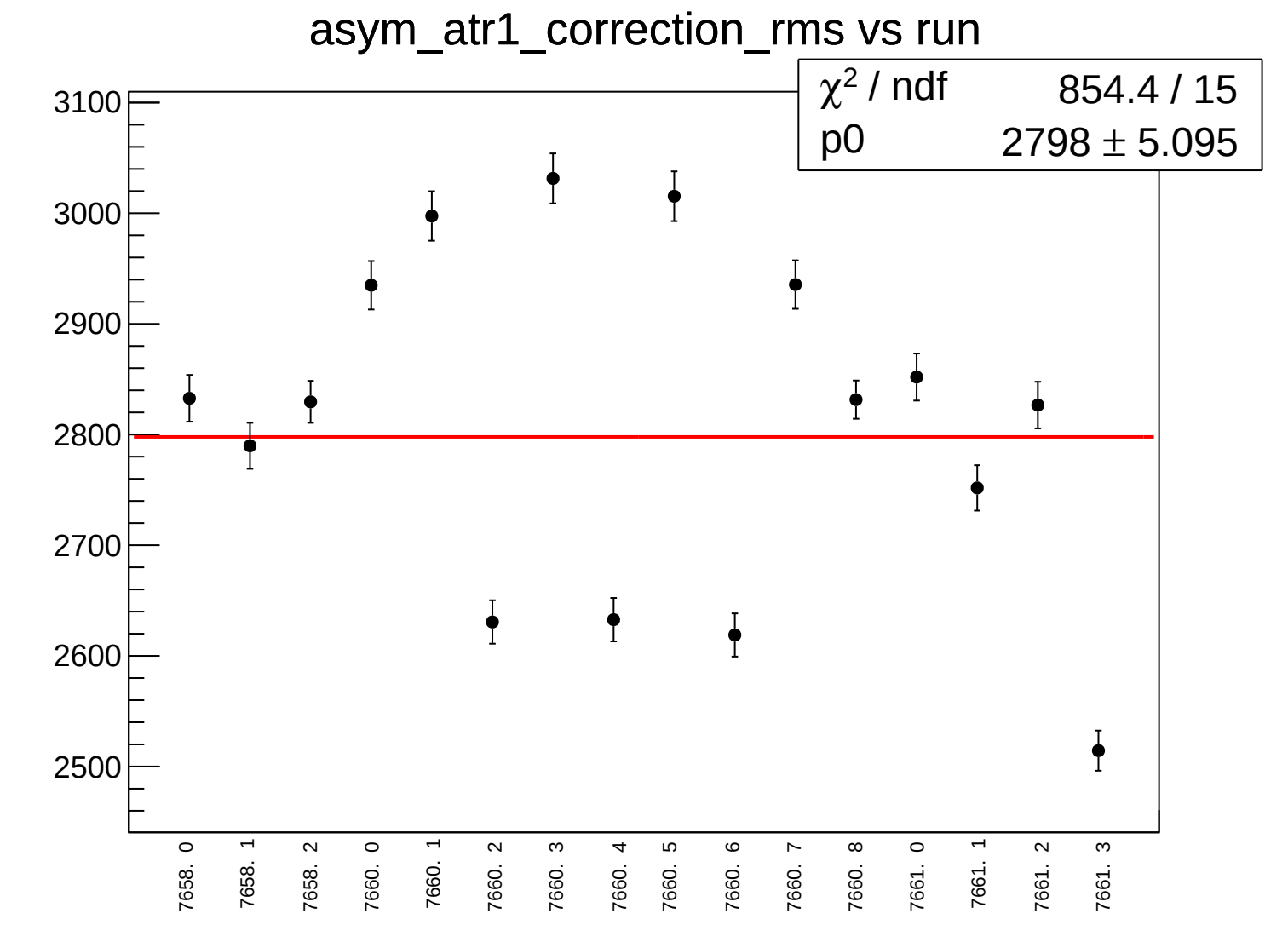

dit_asym_atr1_mean vs run
χ² / ndf 8.126 / 15
p0 −7579 ± 7171
60000
40000
20000
0
−20000
−40000
−60000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −775.3
Std Dev 784
1
0.5
0
−0.5
−1

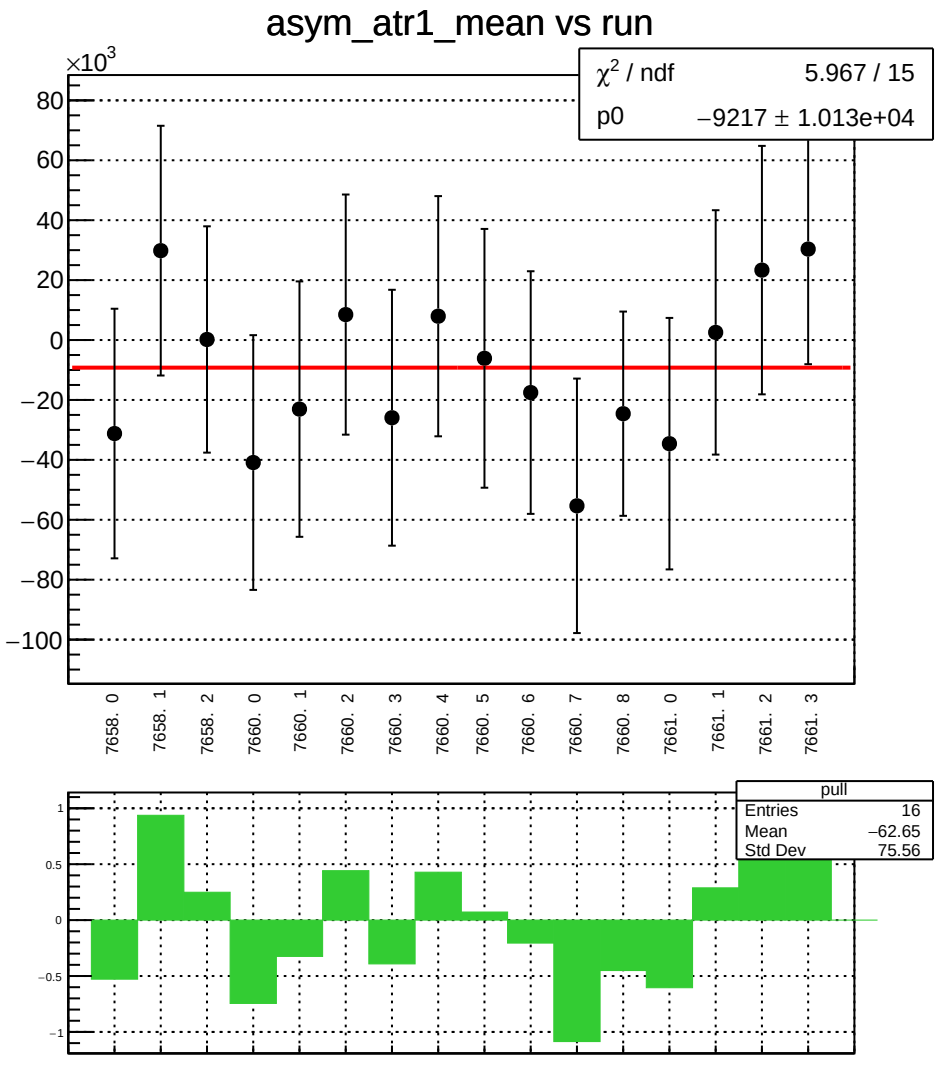

pull1D
Entries 16
Mean −0.001344
Std Dev 0.7127
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

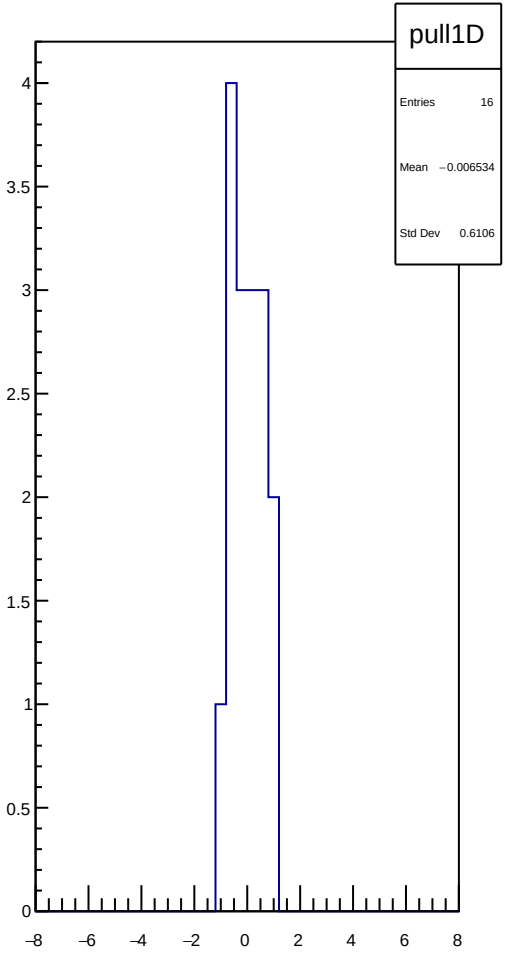

dit_asym_atr1_rms vs run
χ² / ndf 15.03 / 15
p0 2788 ± 5.071
2860
2840
2820
2800
2780
2760
2740
2720
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

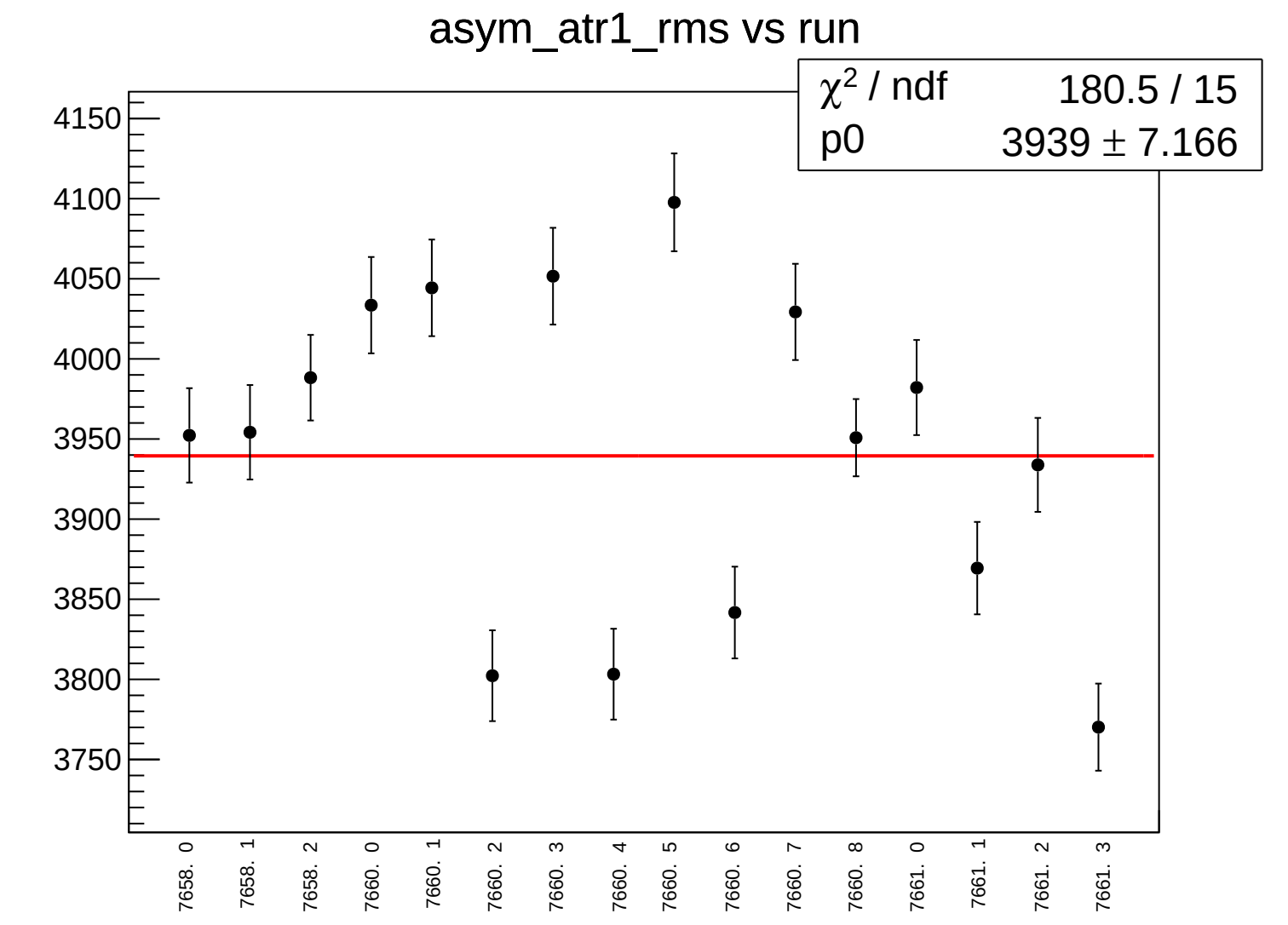

asym_atr1_correction_mean vs run
χ² / ndf 13.41 / 15
p0 928.2 ± 7205
80000
60000
40000
20000
0
−20000
−40000
−60000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 30.93
Std Dev 27.49
1.5
1
0.5
0
−0.5
−1
−1.5

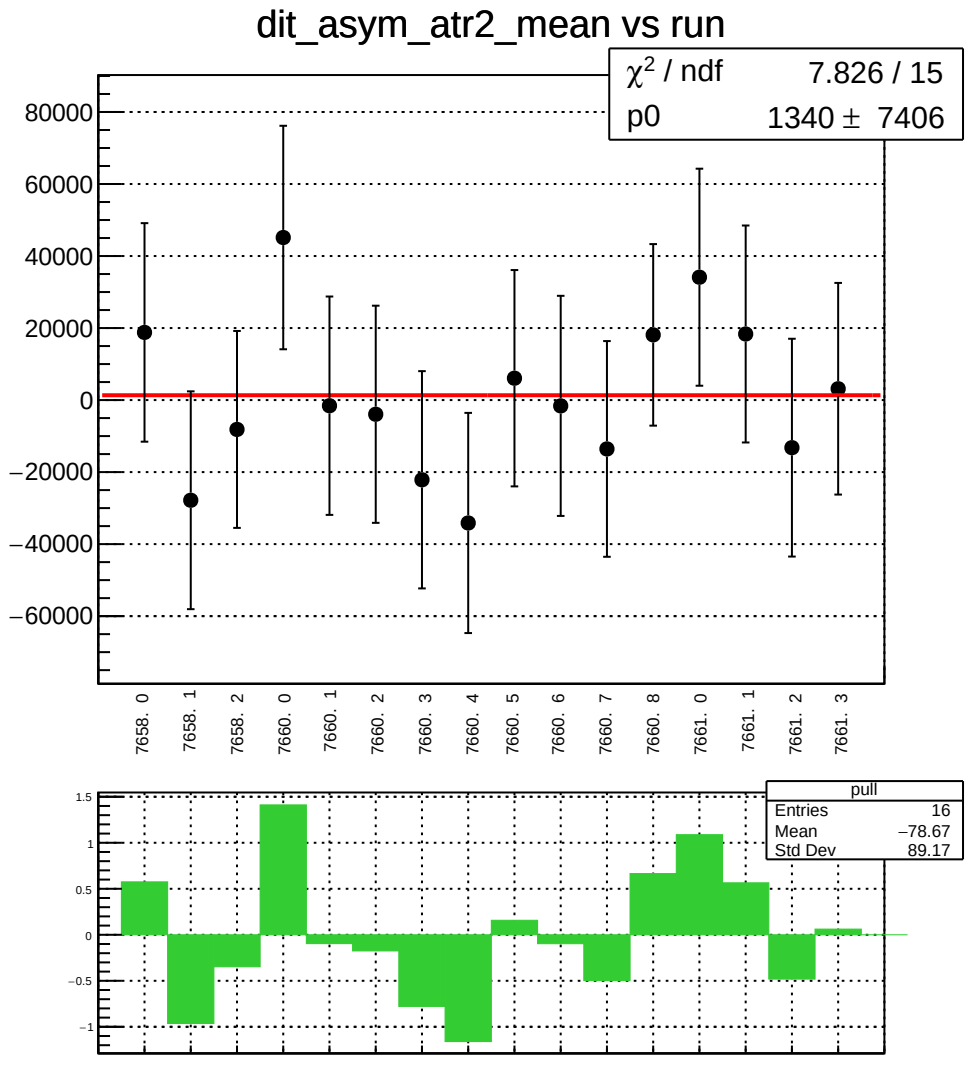

pull1D
Entries 16
Mean 0.01948
Std Dev 0.9153
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

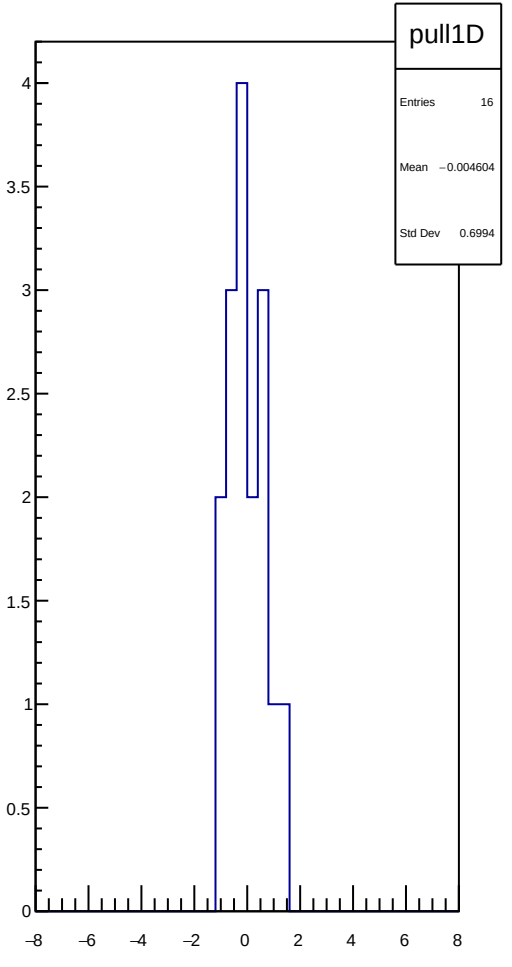

asym_atr1_correction_rms vs run
χ² / ndf 854.4 / 15
p0 2798 ± 5.095
3100
3000
2900
2800
2700
2600
2500
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

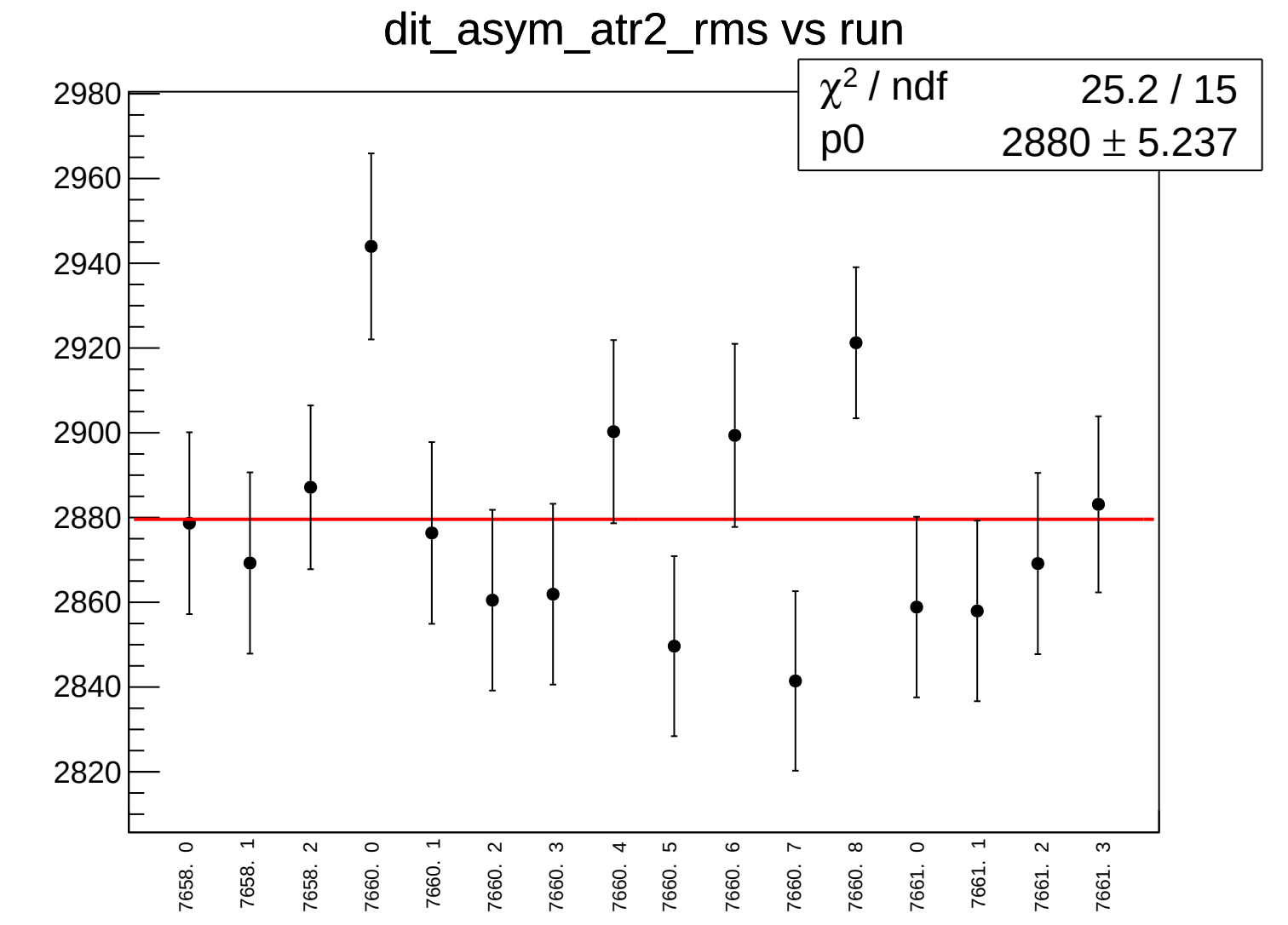

asym_atr1_mean vs run
×10^3
χ² / ndf 5.967 / 15
p0 −9217 ± 1.013e+04
80
60
40
20
0
−20
−40
−60
−80
−100
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −62.65
Std Dev 75.56
1
0.5
0
−0.5
−1

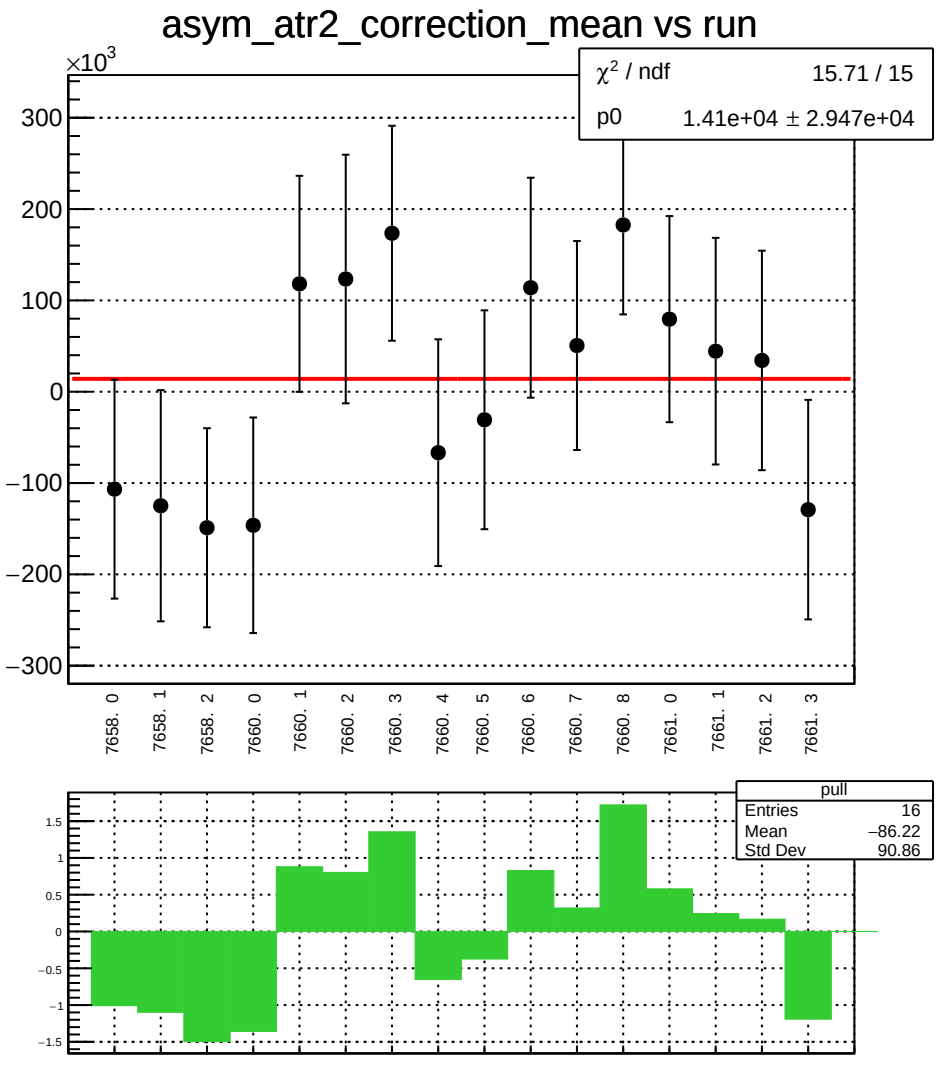

pull1D
Entries 16
Mean −0.006534
Std Dev 0.6106
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

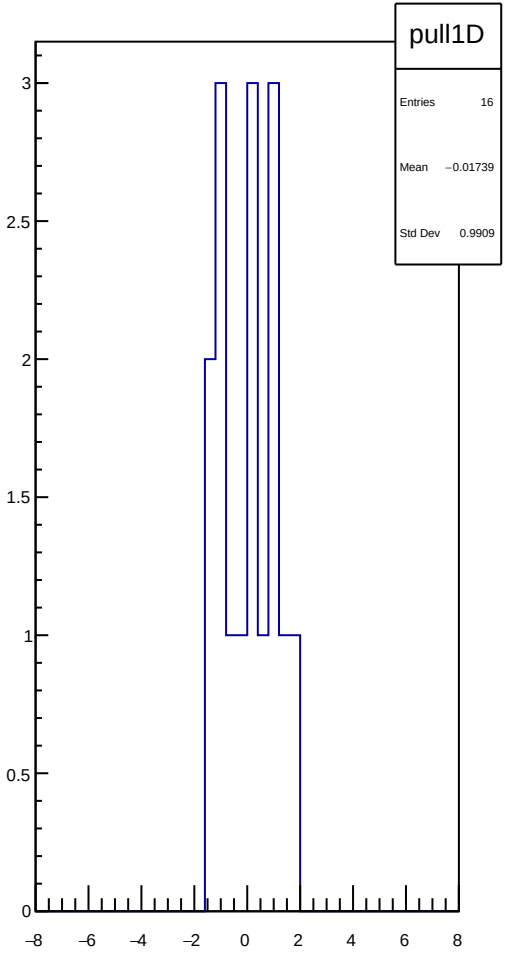

asym_atr1_rms vs run
χ² / ndf 180.5 / 15
p0 3939 ± 7.166
4150
4100
4050
4000
3950
3900
3850
3800
3750
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

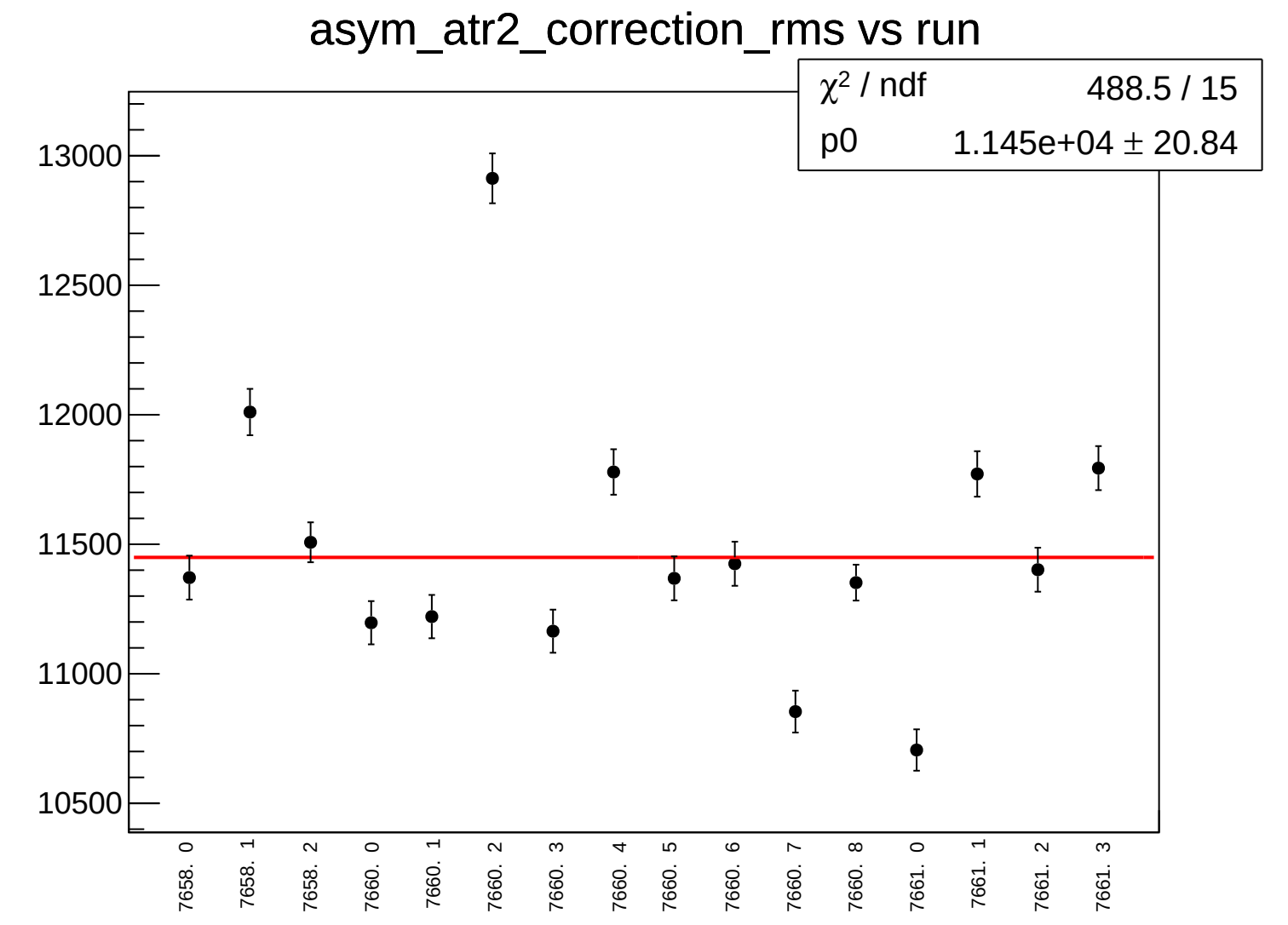

dit_asym_atr2_mean vs run
χ² / ndf 7.826 / 15
p0 1340 ± 7406
80000
60000
40000
20000
0
−20000
−40000
−60000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −78.67
Std Dev 89.17
1.5
1
0.5
0
−0.5
−1

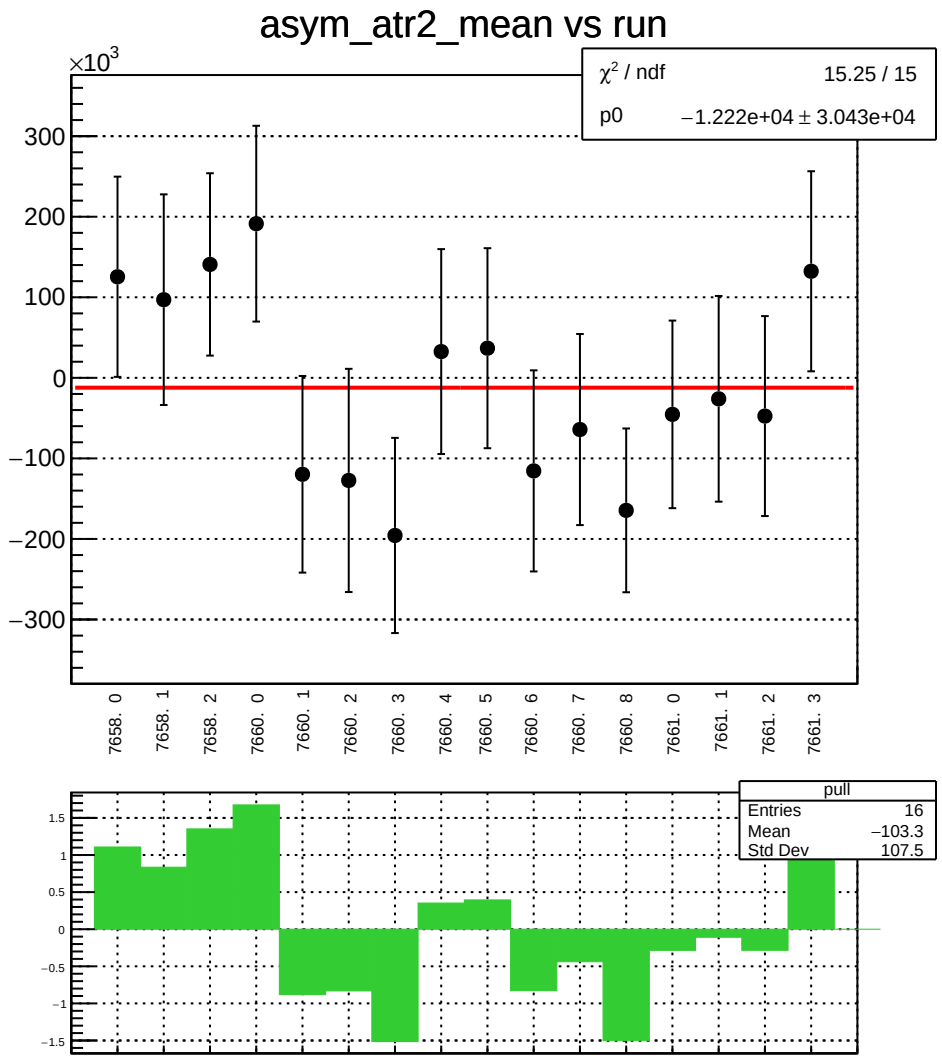

pull1D
Entries 16
Mean −0.004604
Std Dev 0.6994
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

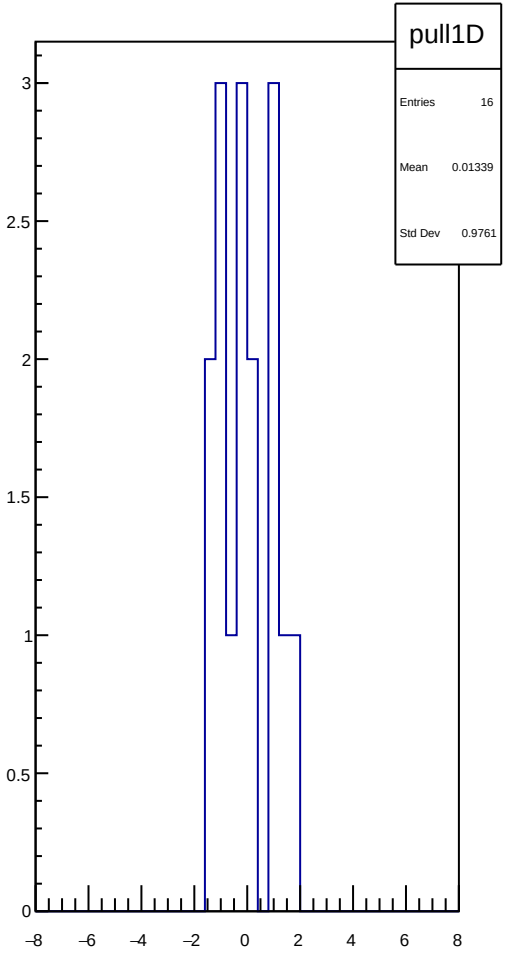

dit_asym_atr2_rms vs run
χ² / ndf 25.2 / 15
p0 2880 ± 5.237
2980
2960
2940
2920
2900
2880
2860
2840
2820
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

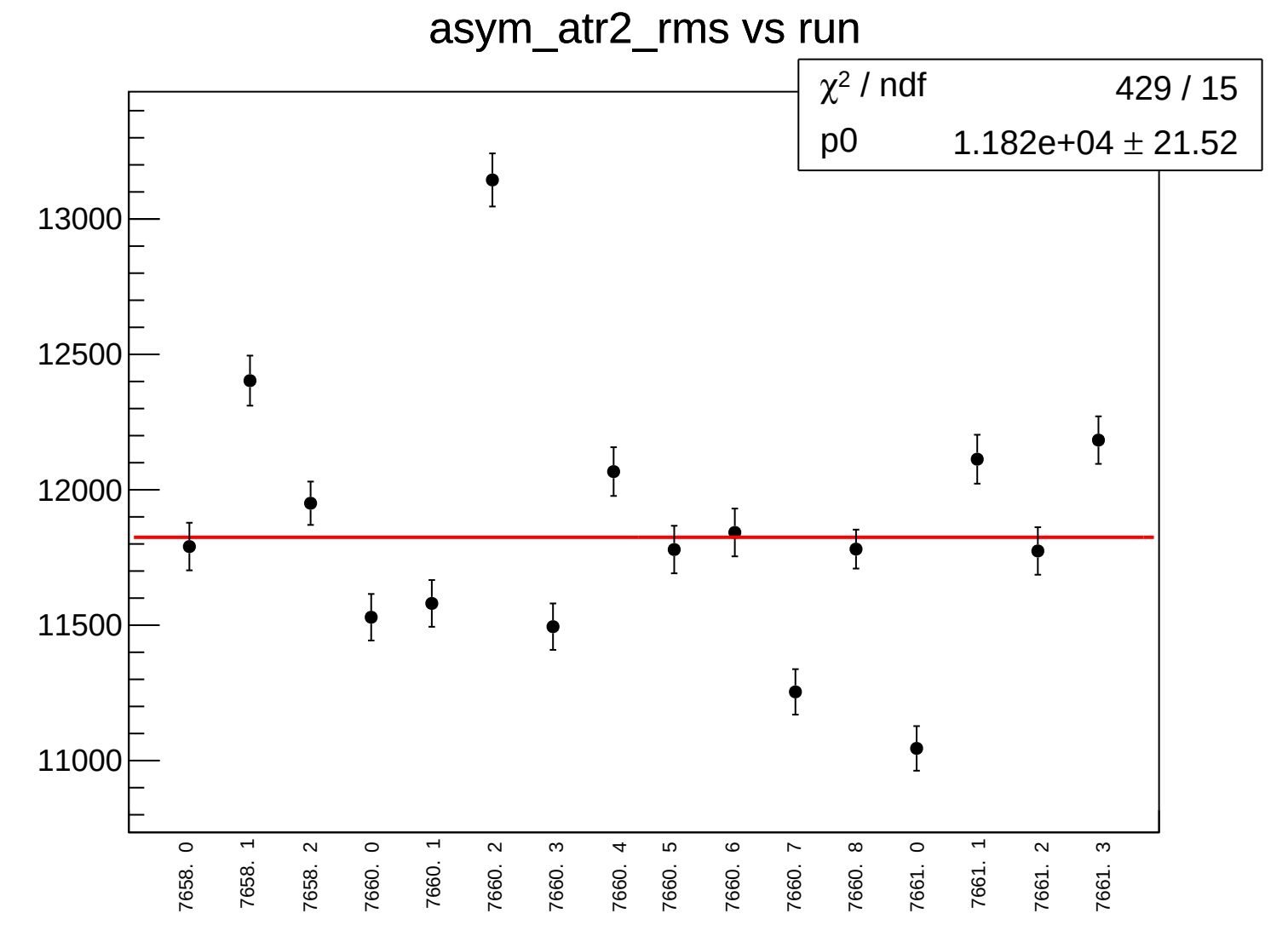

asym_atr2_correction_mean vs run
×10^3
χ² / ndf 15.71 / 15
p0 1.41e+04 ± 2.947e+04
300
200
100
0
−100
−200
−300
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −86.22
Std Dev 90.86
1.5
1
0.5
0
−0.5
−1
−1.5

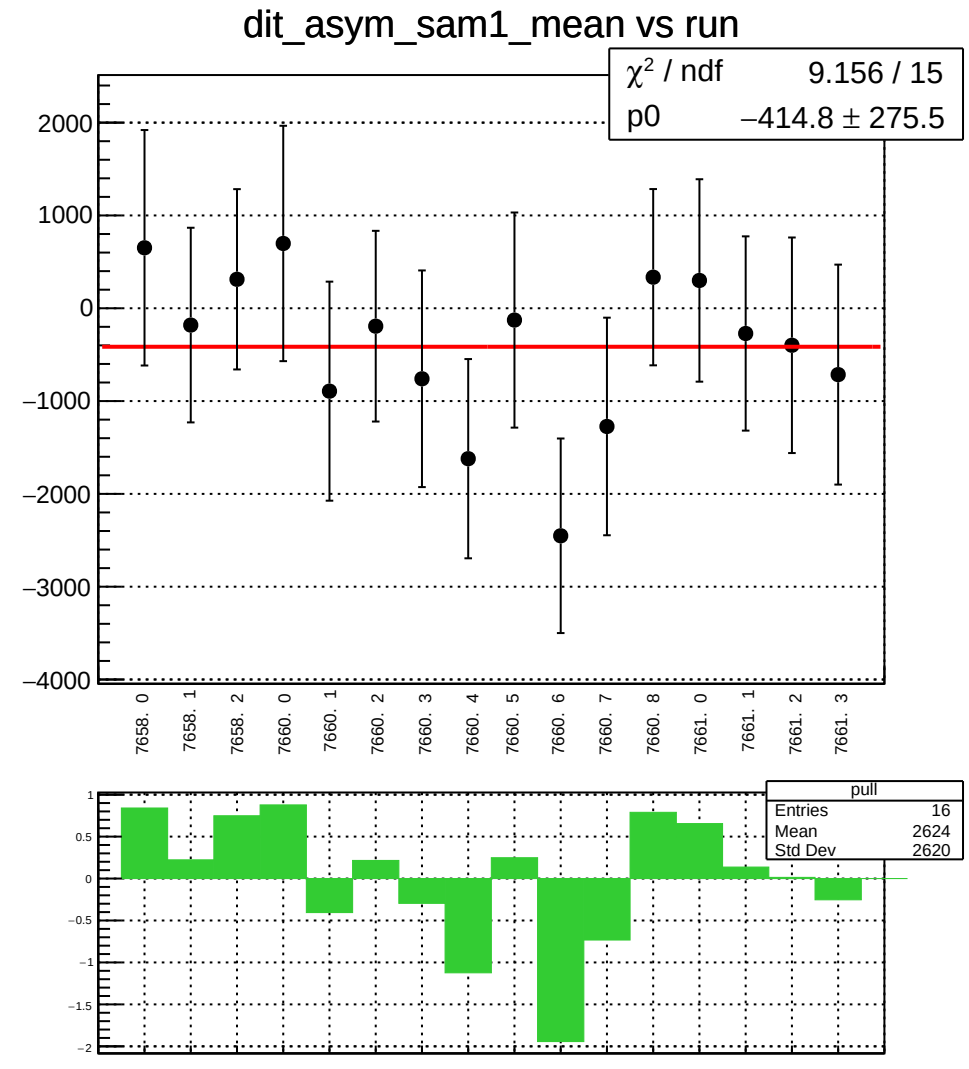

pull1D
Entries 16
Mean −0.01739
Std Dev 0.9909
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

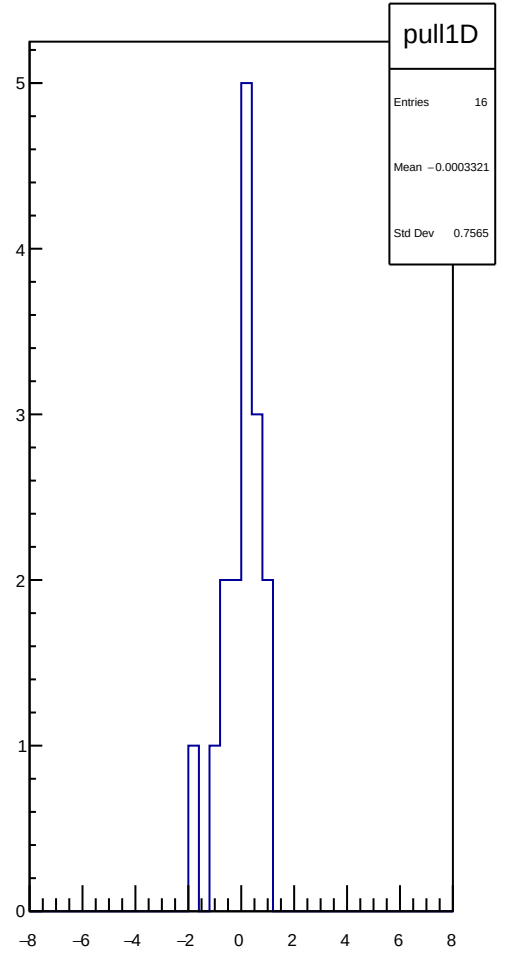

asym_atr2_correction_rms vs run
χ² / ndf 488.5 / 15
p0 1.145e+04 ± 20.84
13000
12500
12000
11500
11000
10500
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

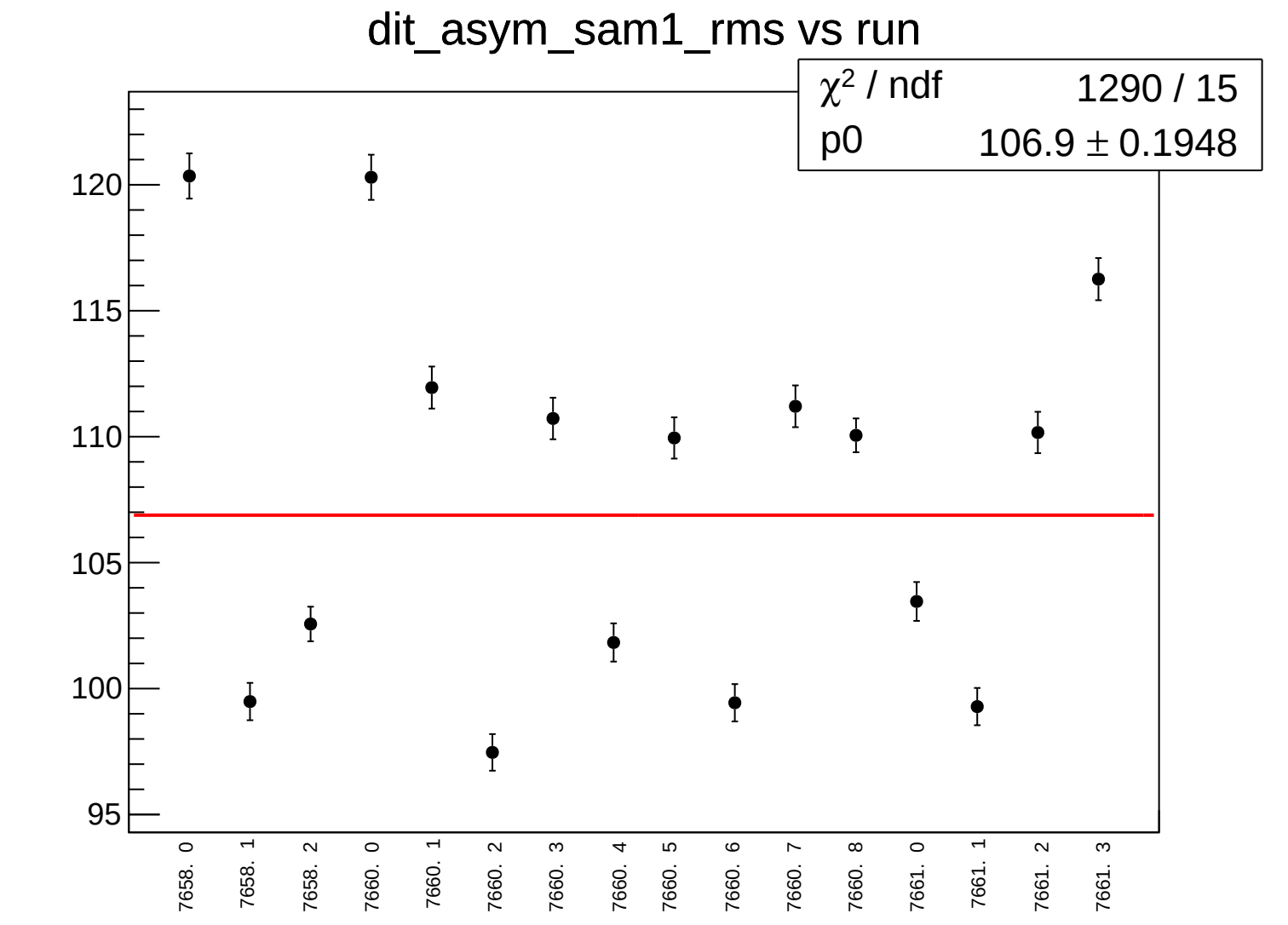

asym_atr2_mean vs run
×10^3
χ² / ndf 15.25 / 15
p0 −1.222e+04 ± 3.043e+04
300
200
100
0
−100
−200
−300
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −103.3
Std Dev 107.5
1.5
1
0.5
0
−0.5
−1
−1.5

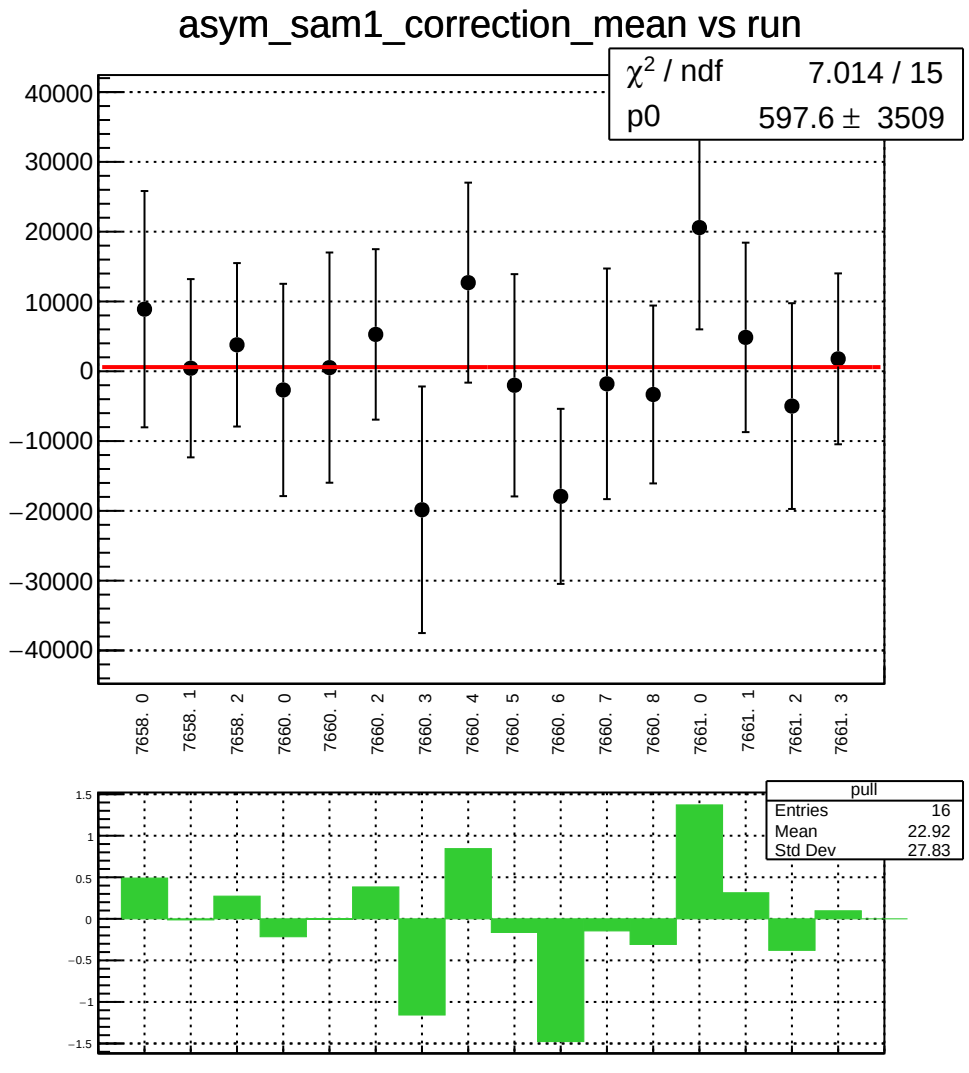

pull1D
Entries 16
Mean 0.01339
Std Dev 0.9761
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

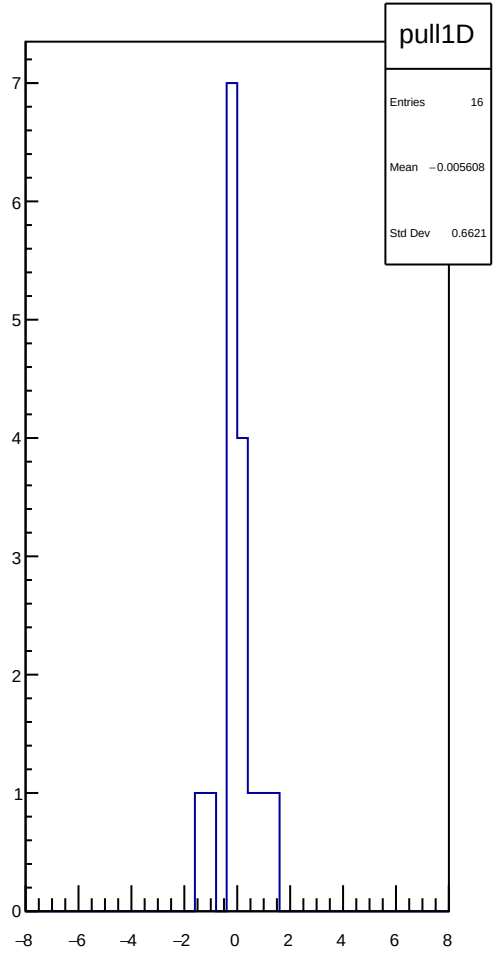

asym_atr2_rms vs run
χ² / ndf 429 / 15
p0 1.182e+04 ± 21.52
13000
12500
12000
11500
11000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

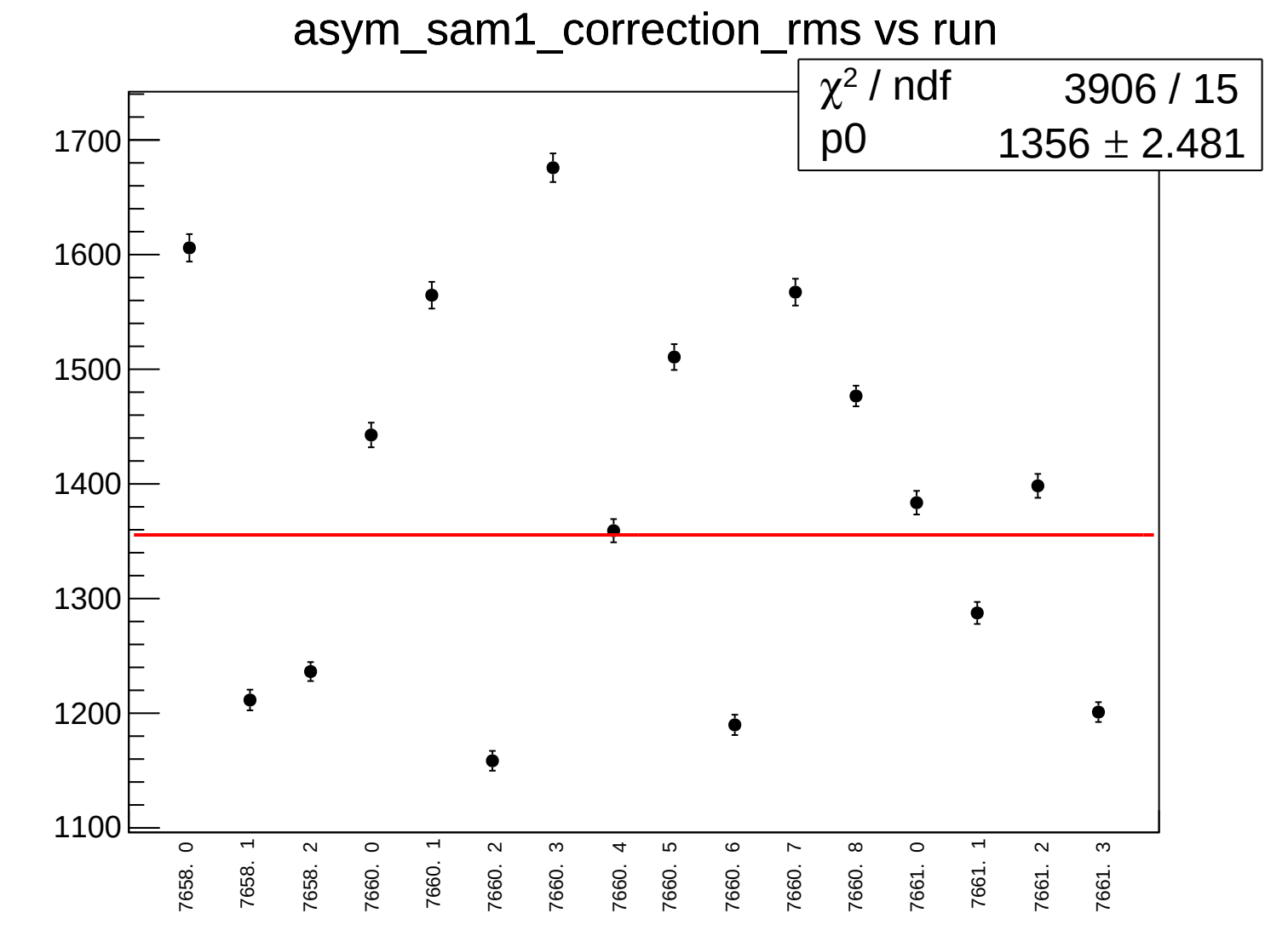

dit_asym_sam1_mean vs run
χ² / ndf 9.156 / 15
p0 −414.8 ± 275.5
2000
1000
0
−1000
−2000
−3000
−4000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 2624
Std Dev 2620
1
0.5
0
−0.5
−1
−1.5
−2

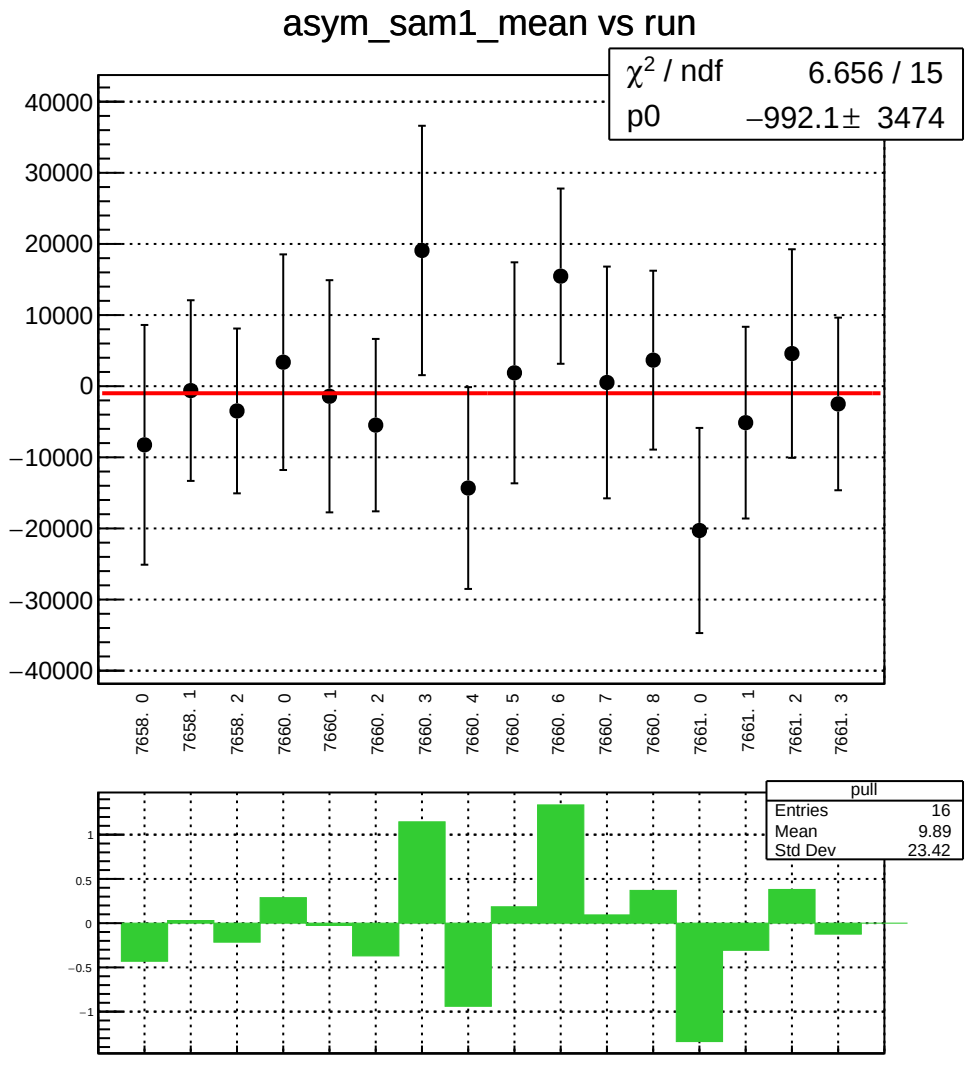

pull1D
Entries 16
Mean −0.0003321
Std Dev 0.7565
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

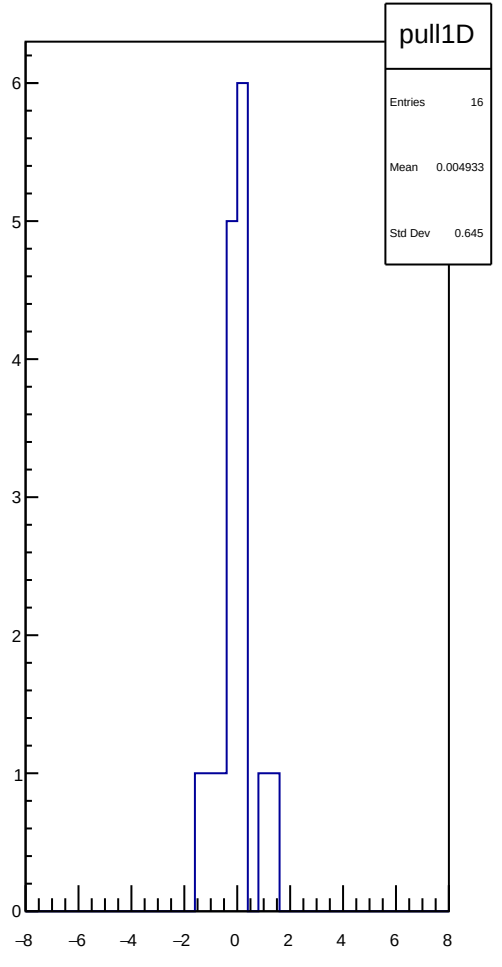

dit_asym_sam1_rms vs run
χ² / ndf 1290 / 15
p0 106.9 ± 0.1948
120
115
110
105
100
95
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

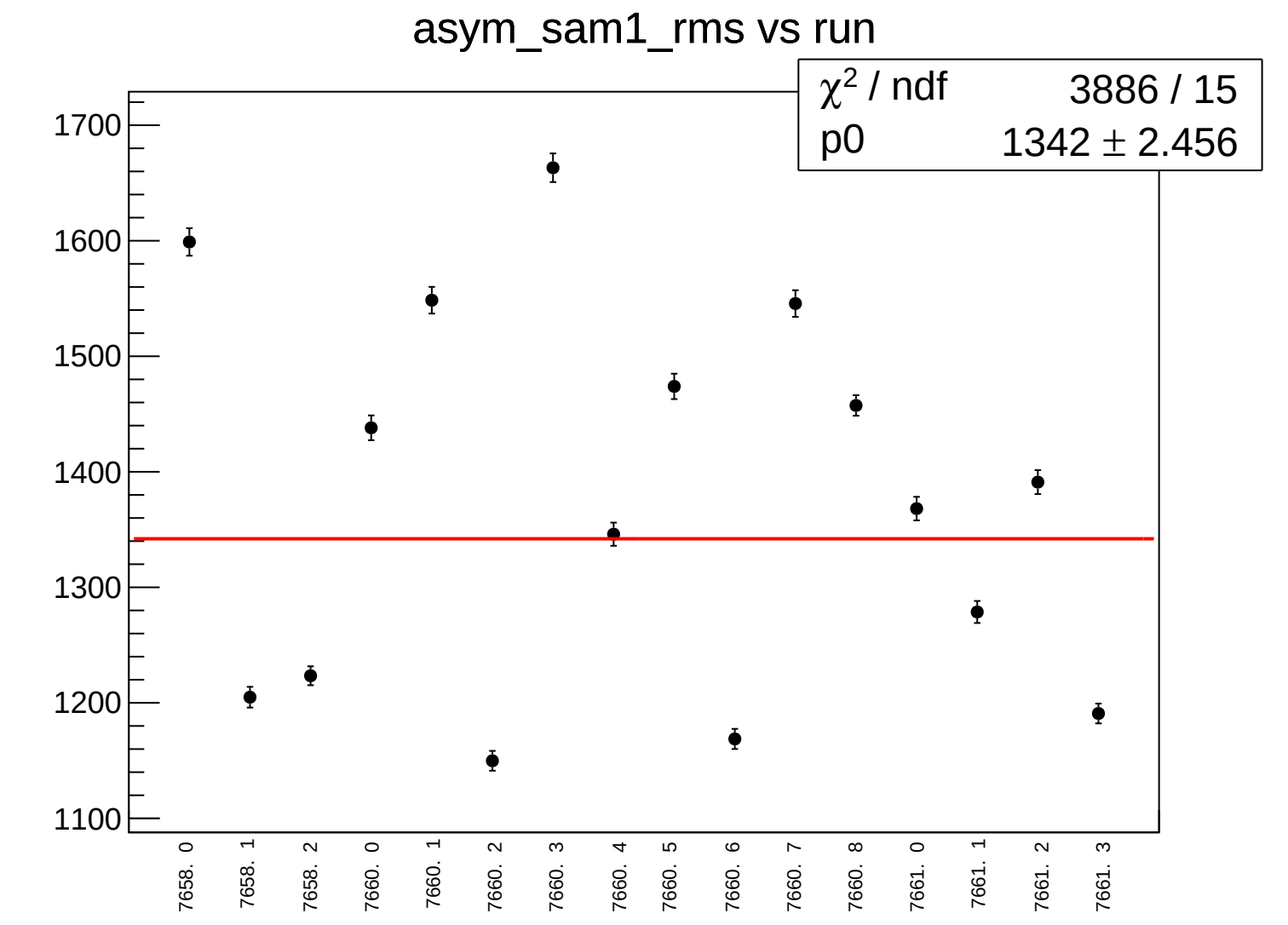

asym_sam1_correction_mean vs run
χ² / ndf 7.014 / 15
p0 597.6 ± 3509
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 22.92
Std Dev 27.83
1.5
1
0.5
0
−0.5
−1
−1.5

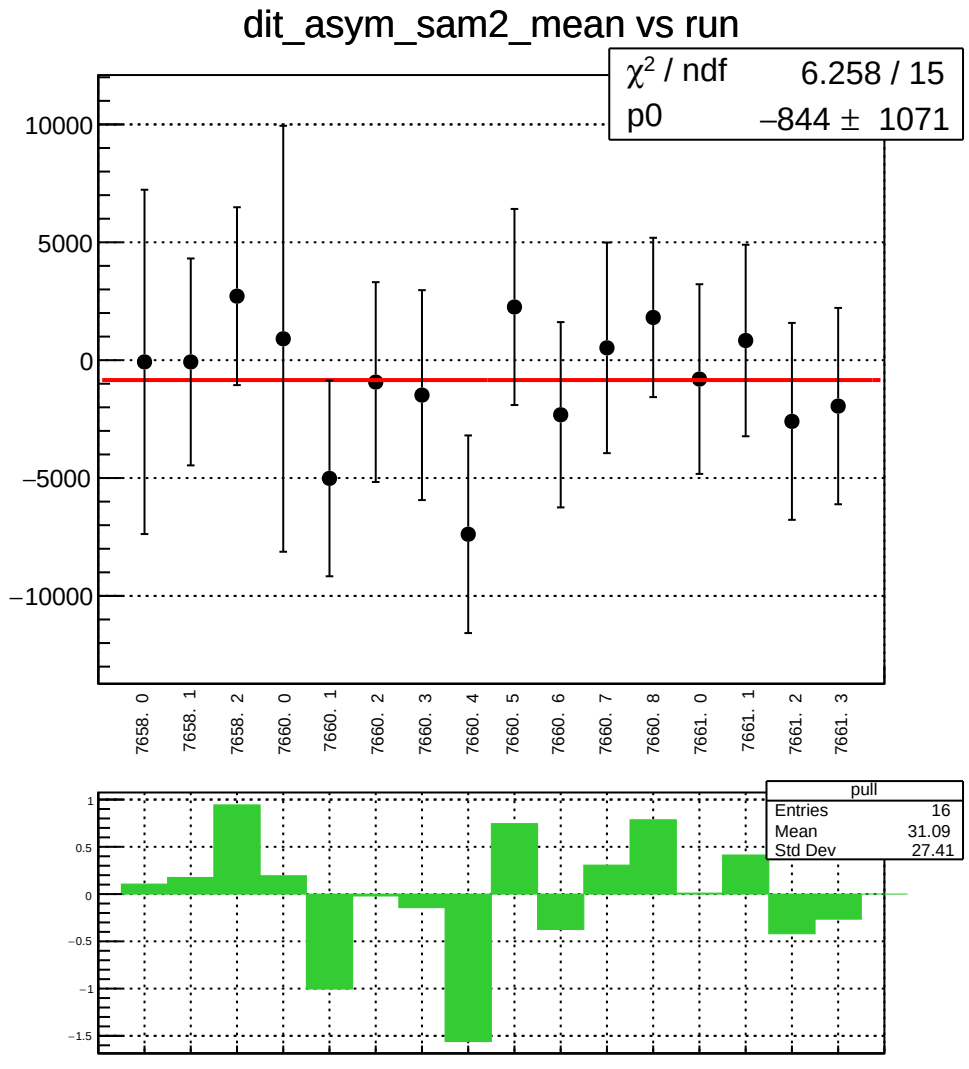

pull1D
Entries 16
Mean −0.005608
Std Dev 0.6621
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

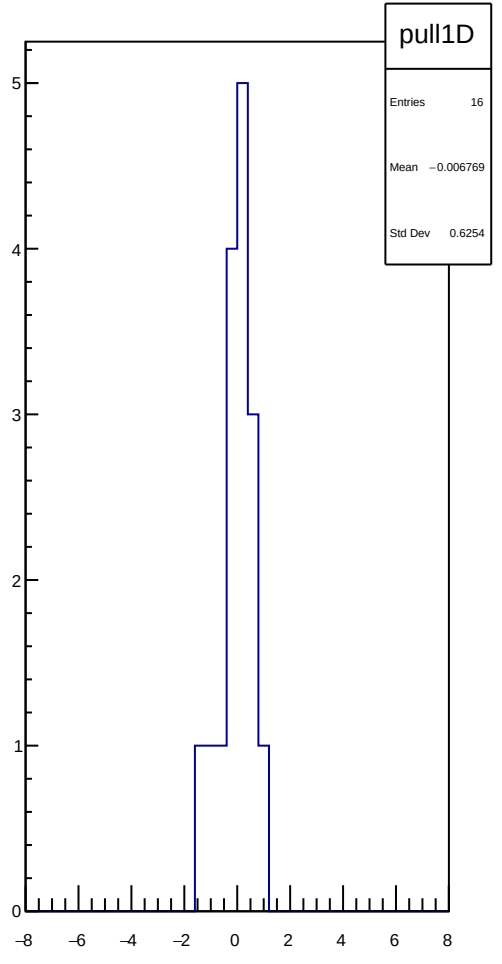

asym_sam1_correction_rms vs run
χ² / ndf 3906 / 15
p0 1356 ± 2.481
1700
1600
1500
1400
1300
1200
1100
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

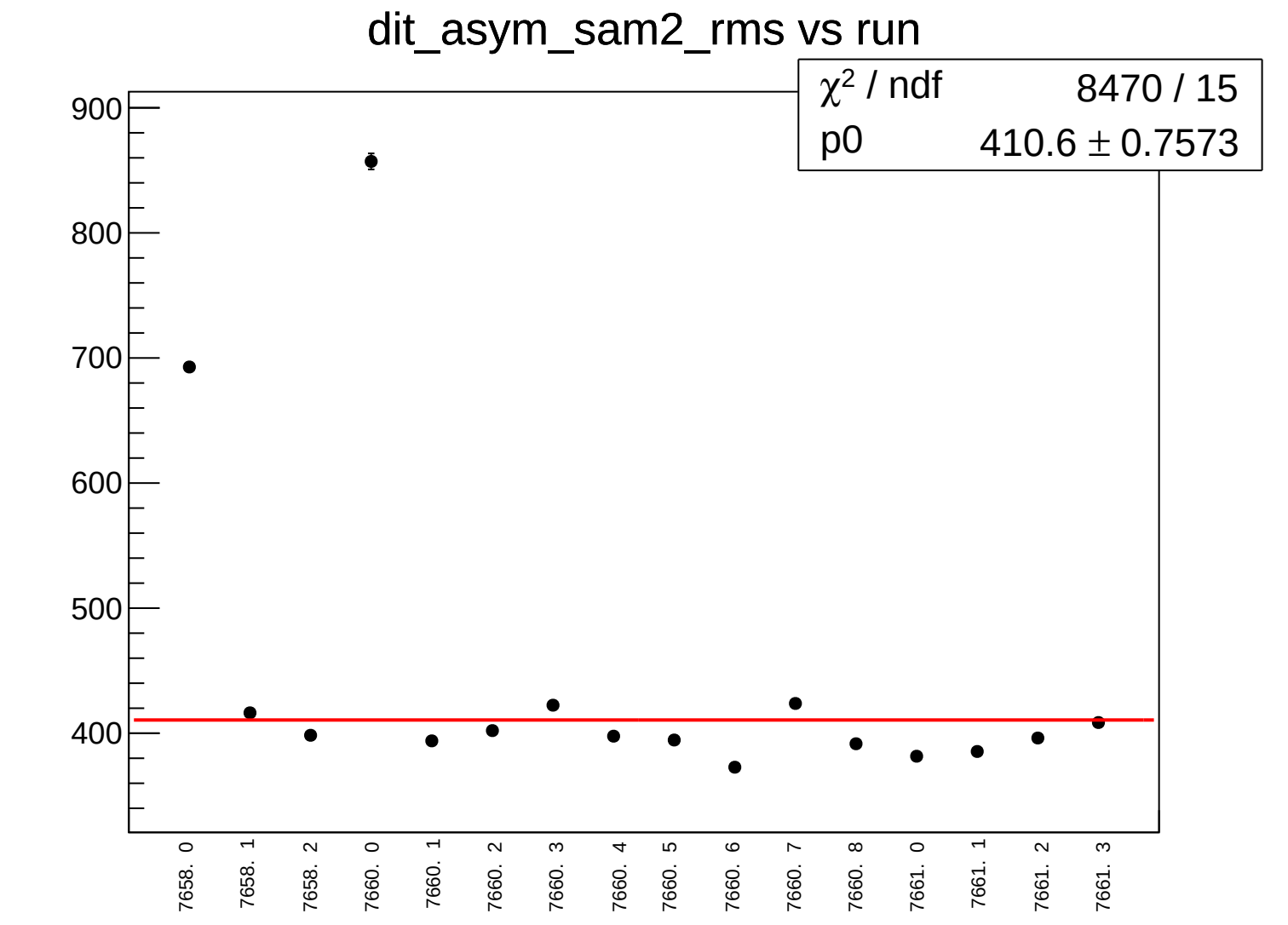

asym_sam1_mean vs run
χ² / ndf 6.656 / 15
p0 −992.1± 3474
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 9.89
Std Dev 23.42
1
0.5
0
−0.5
−1

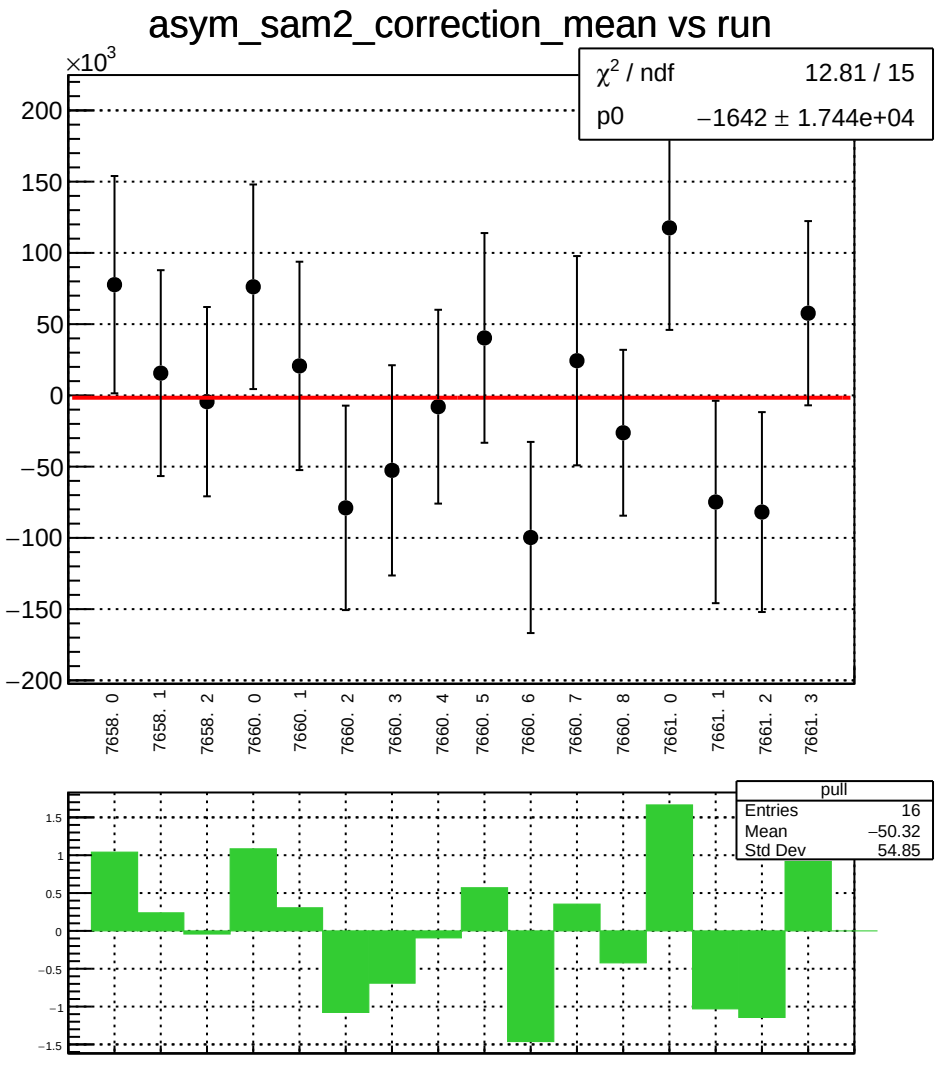

pull1D
Entries 16
Mean 0.004933
Std Dev 0.645
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

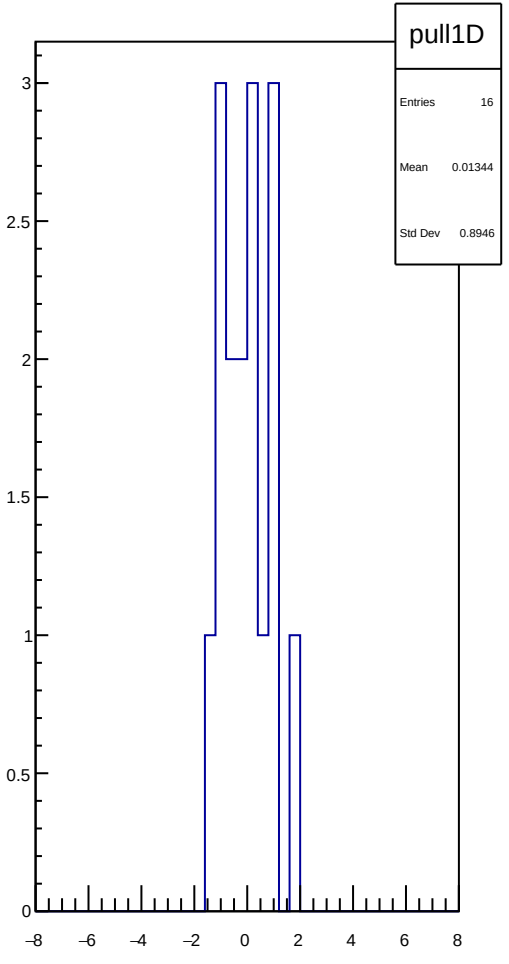

asym_sam1_rms vs run
χ² / ndf 3886 / 15
p0 1342 ± 2.456
1700
1600
1500
1400
1300
1200
1100
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

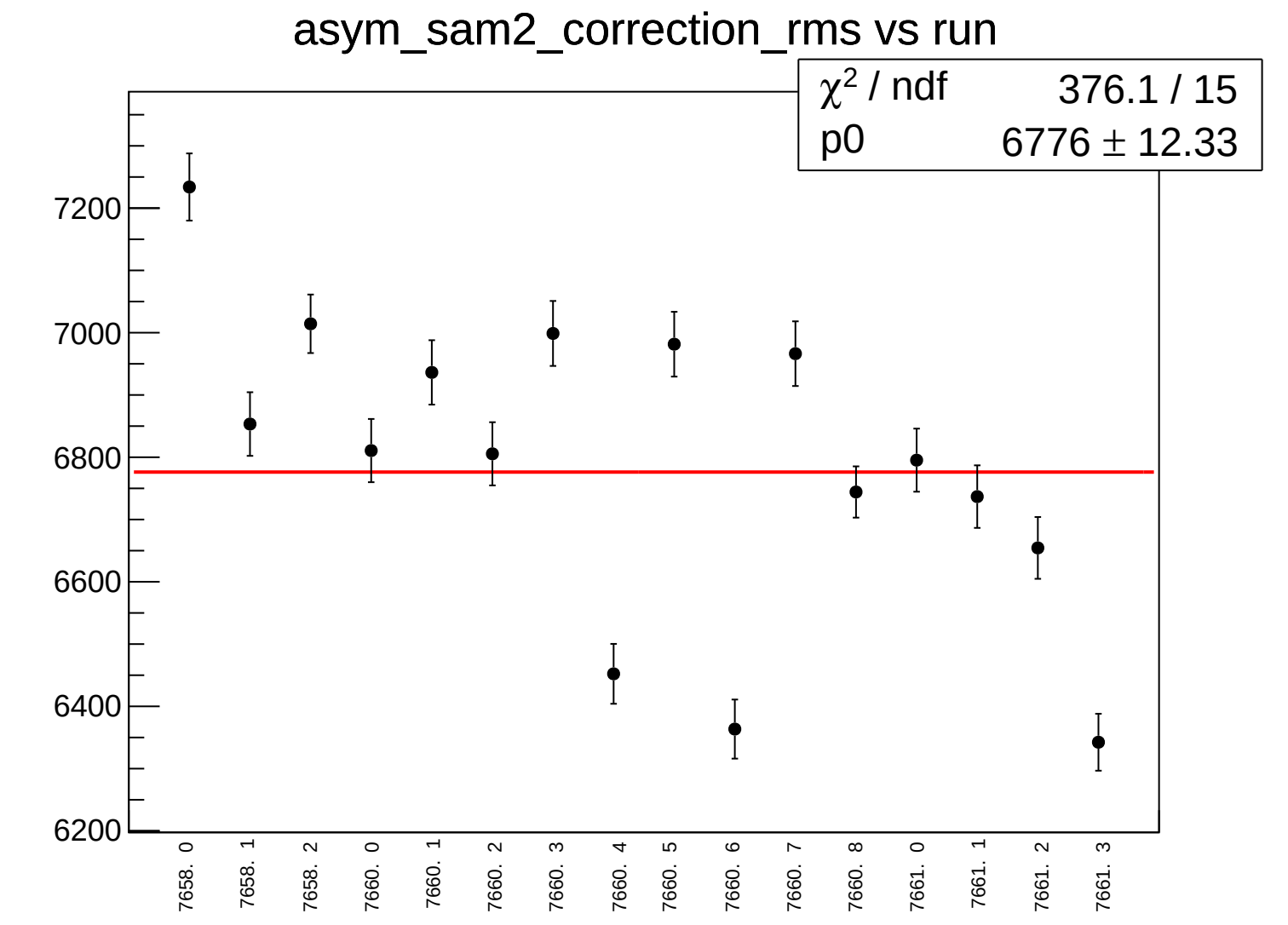

dit_asym_sam2_mean vs run
χ² / ndf 6.258 / 15
p0 −844 ± 1071
10000
5000
0
−5000
−10000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 31.09
Std Dev 27.41
1
0.5
0
−0.5
−1
−1.5

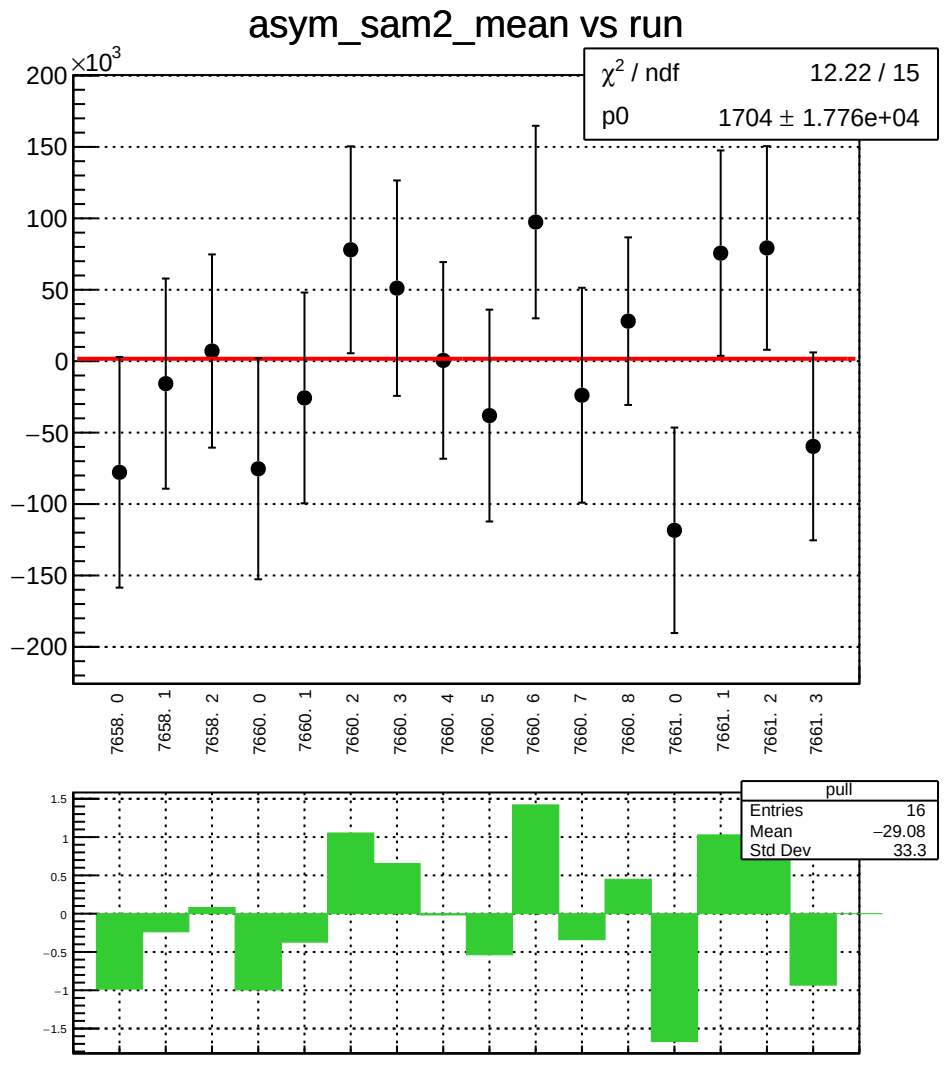

pull1D
Entries 16
Mean −0.006769
Std Dev 0.6254
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

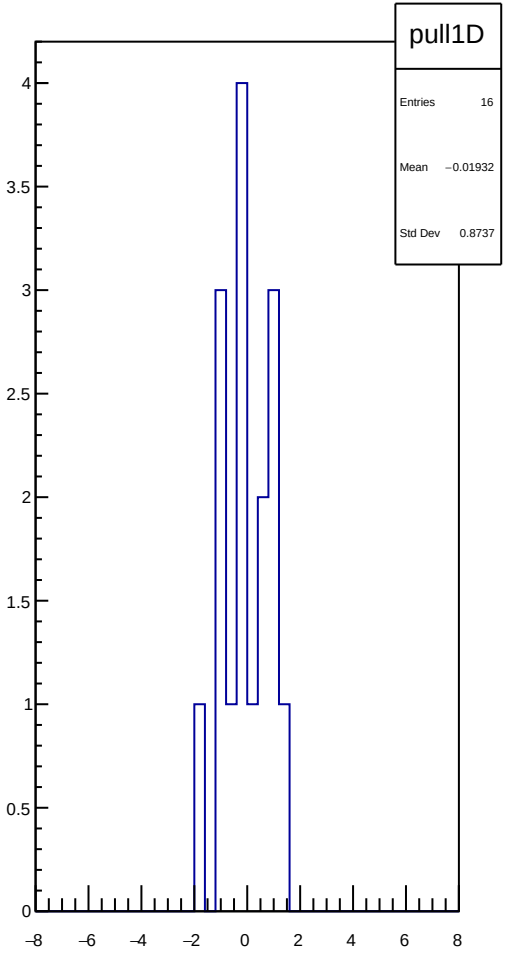

dit_asym_sam2_rms vs run
χ² / ndf 8470 / 15
p0 410.6 ± 0.7573
900
800
700
600
500
400
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

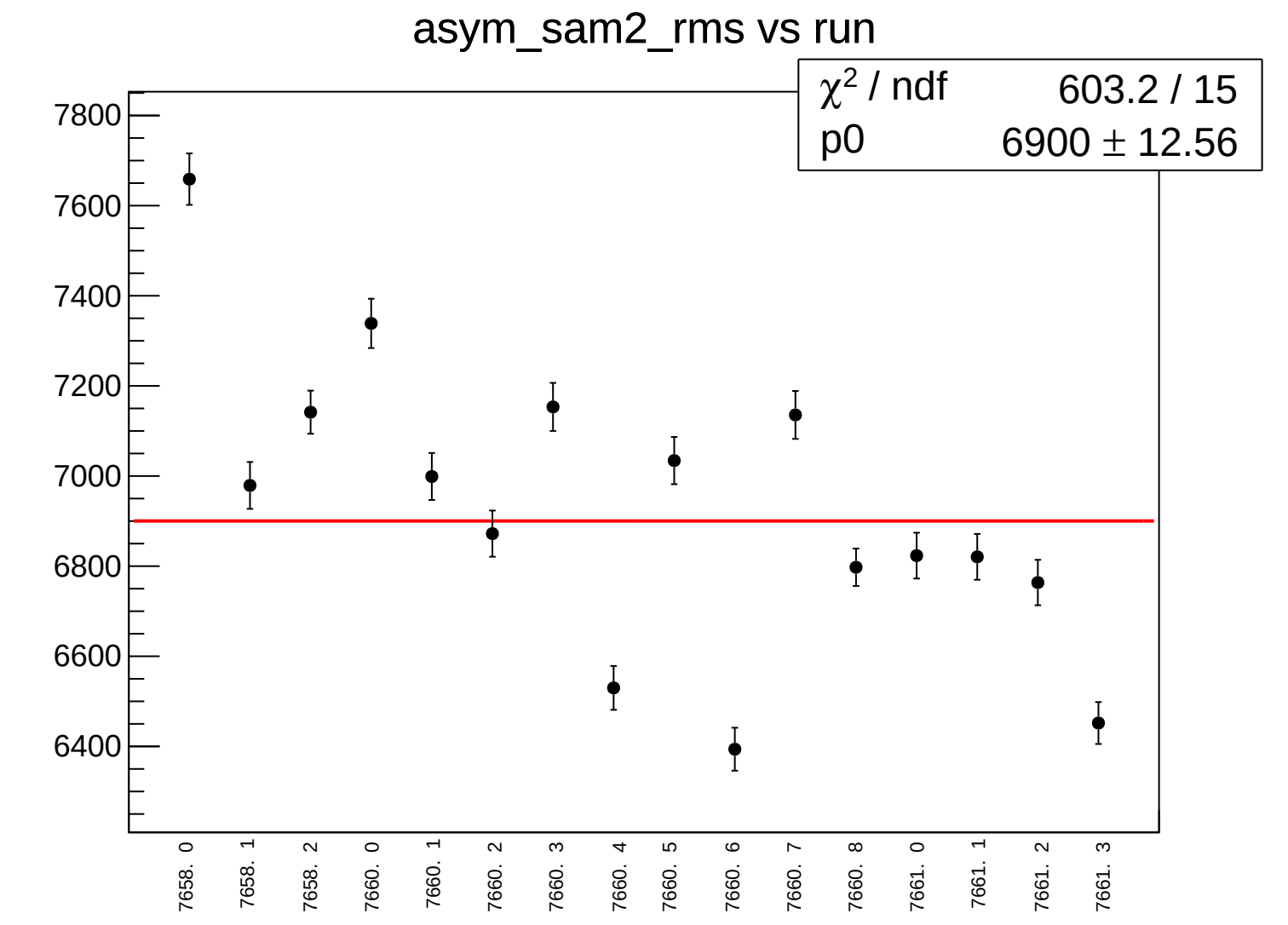

asym_sam2_correction_mean vs run
×10^3
χ² / ndf 12.81 / 15
p0 −1642 ± 1.744e+04
200
150
100
50
0
−50
−100
−150
−200
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −50.32
Std Dev 54.85
1.5
1
0.5
0
−0.5
−1
−1.5

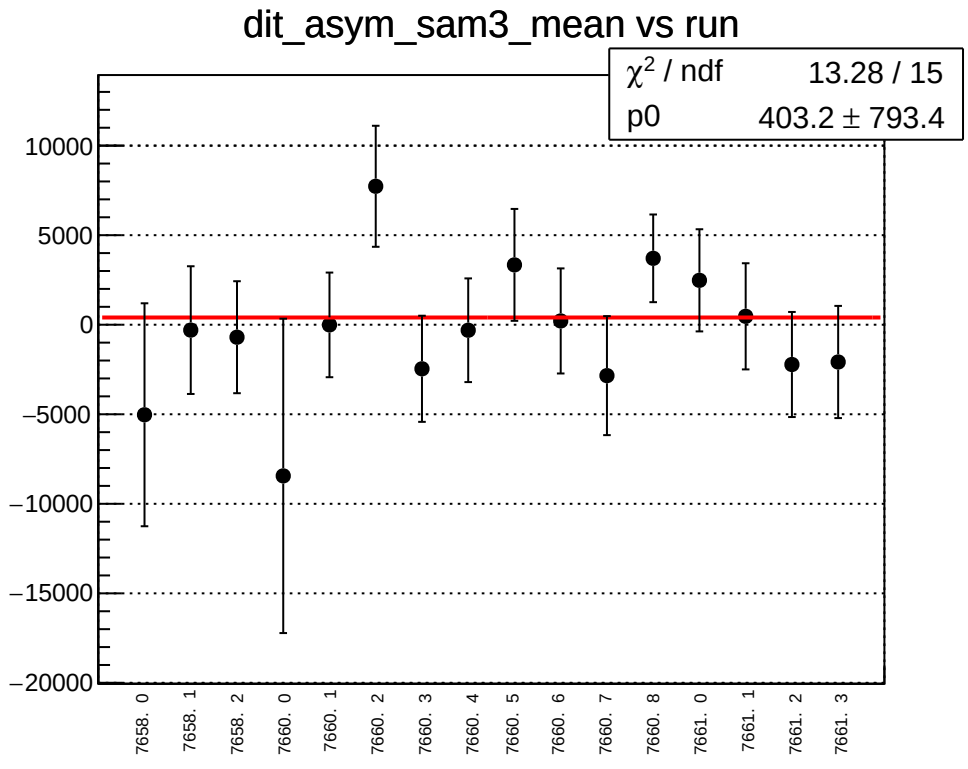

pull1D
Entries 16
Mean 0.01344
Std Dev 0.8946
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

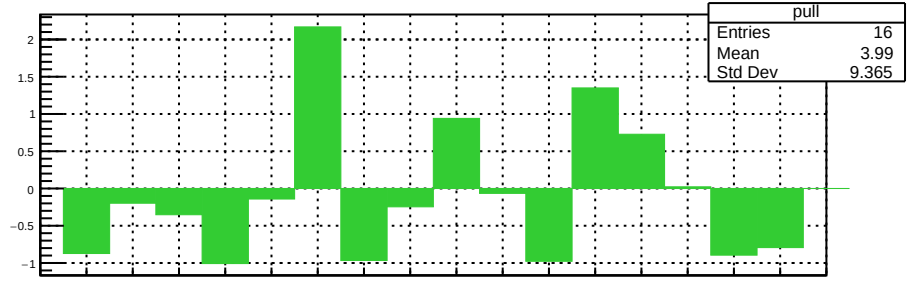

asym_sam2_correction_rms vs run
χ² / ndf 376.1 / 15
p0 6776 ± 12.33
7200
7000
6800
6600
6400
6200
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

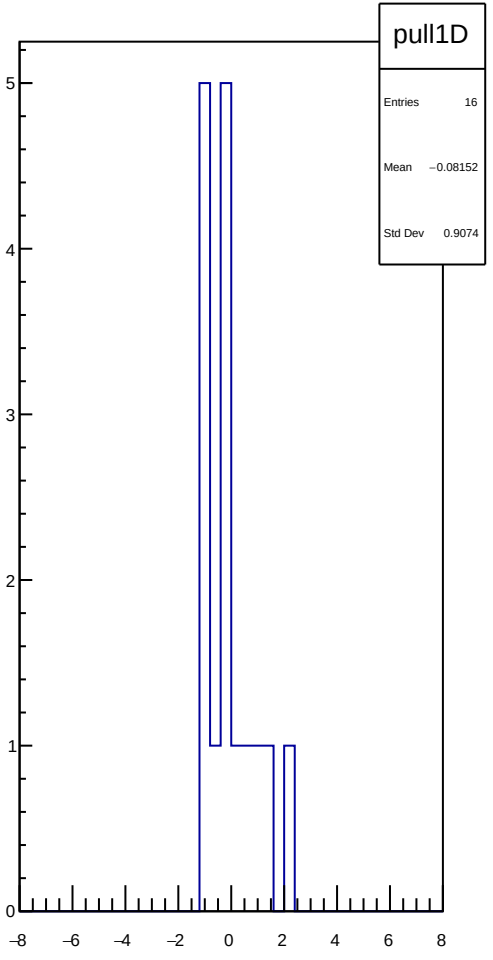

asym_sam2_mean vs run
×10^3
χ² / ndf 12.22 / 15
p0 1704 ± 1.776e+04
200
150
100
50
0
−50
−100
−150
−200
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −29.08
Std Dev 33.3
1.5
1
0.5
0
−0.5
−1
−1.5

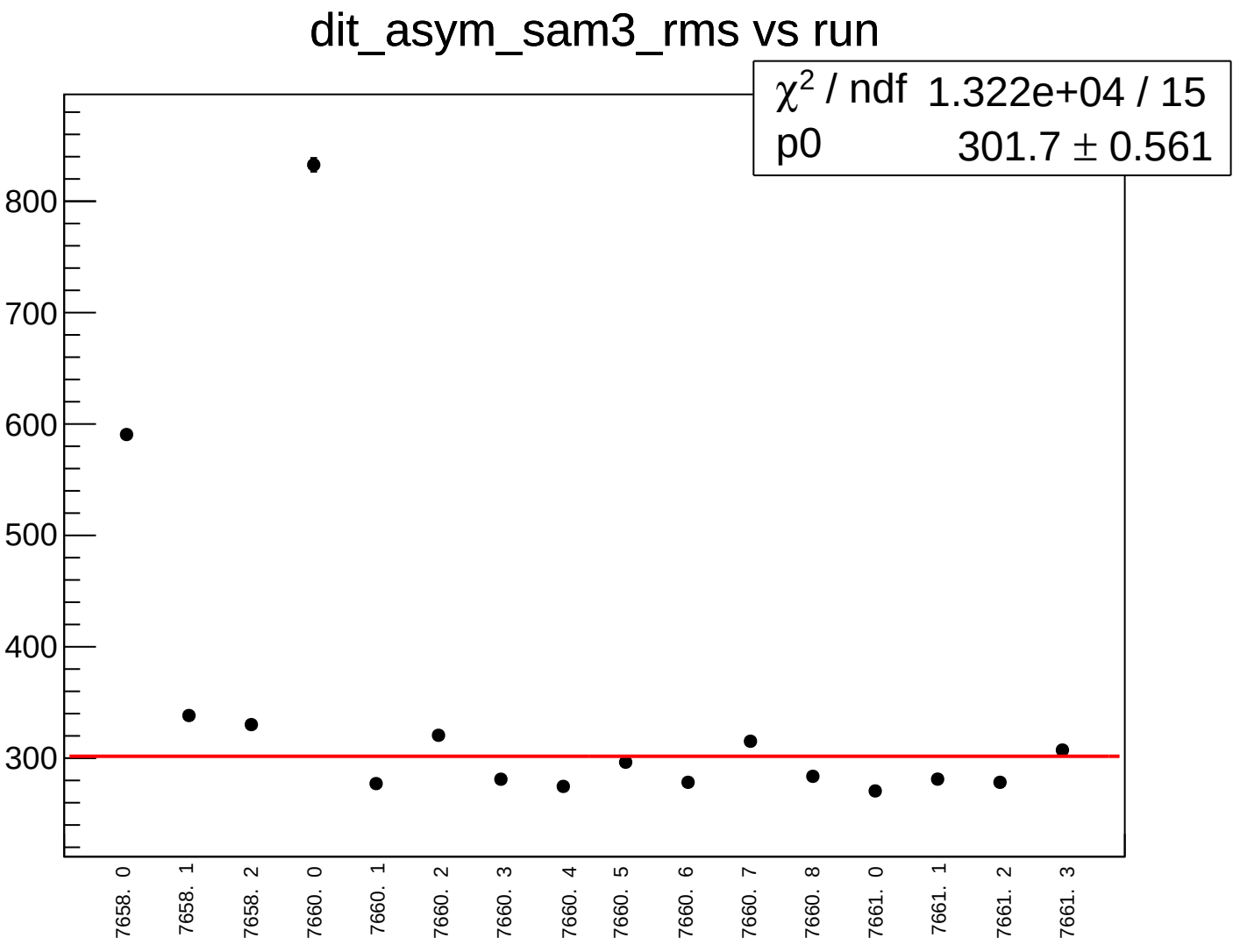

pull1D
Entries 16
Mean −0.01932
Std Dev 0.8737
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

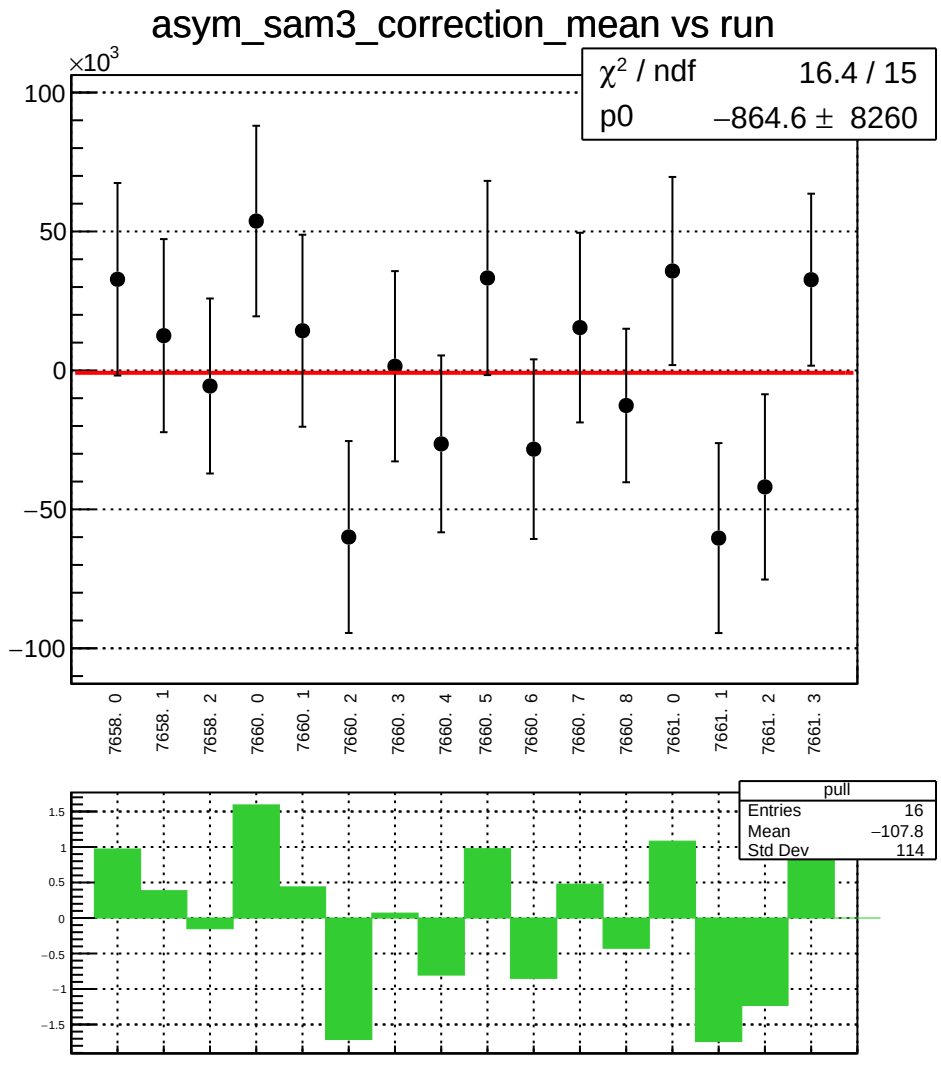

asym_sam2_rms vs run
χ² / ndf 603.2 / 15
p0 6900 ± 12.56
7800
7600
7400
7200
7000
6800
6600
6400
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

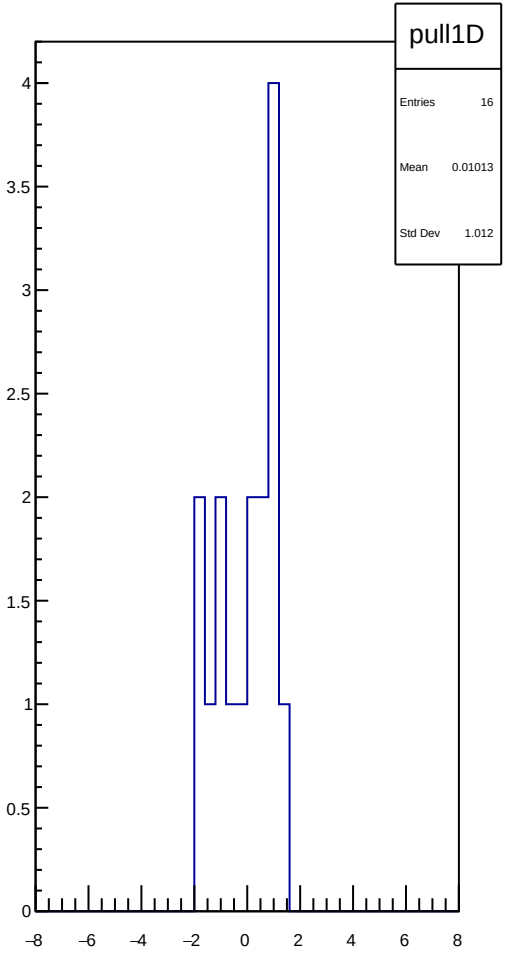

dit_asym_sam3_mean vs run
χ² / ndf 13.28 / 15
p0 403.2 ± 793.4
10000
5000
0
−5000
−10000
−15000
−20000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

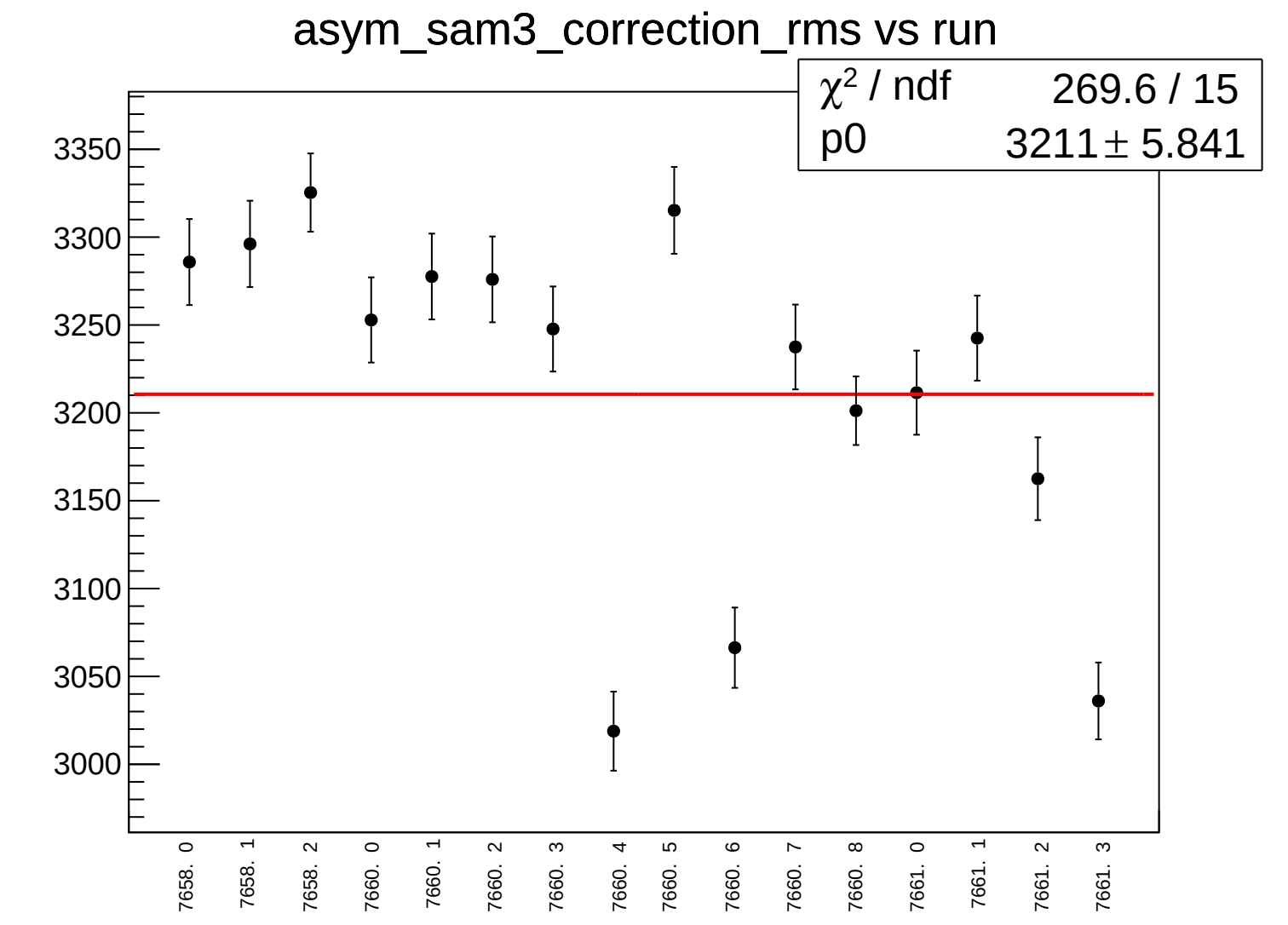

pull
Entries 16
Mean 3.99
Std Dev 9.365
2
1.5
1
0.5
0
−0.5
−1

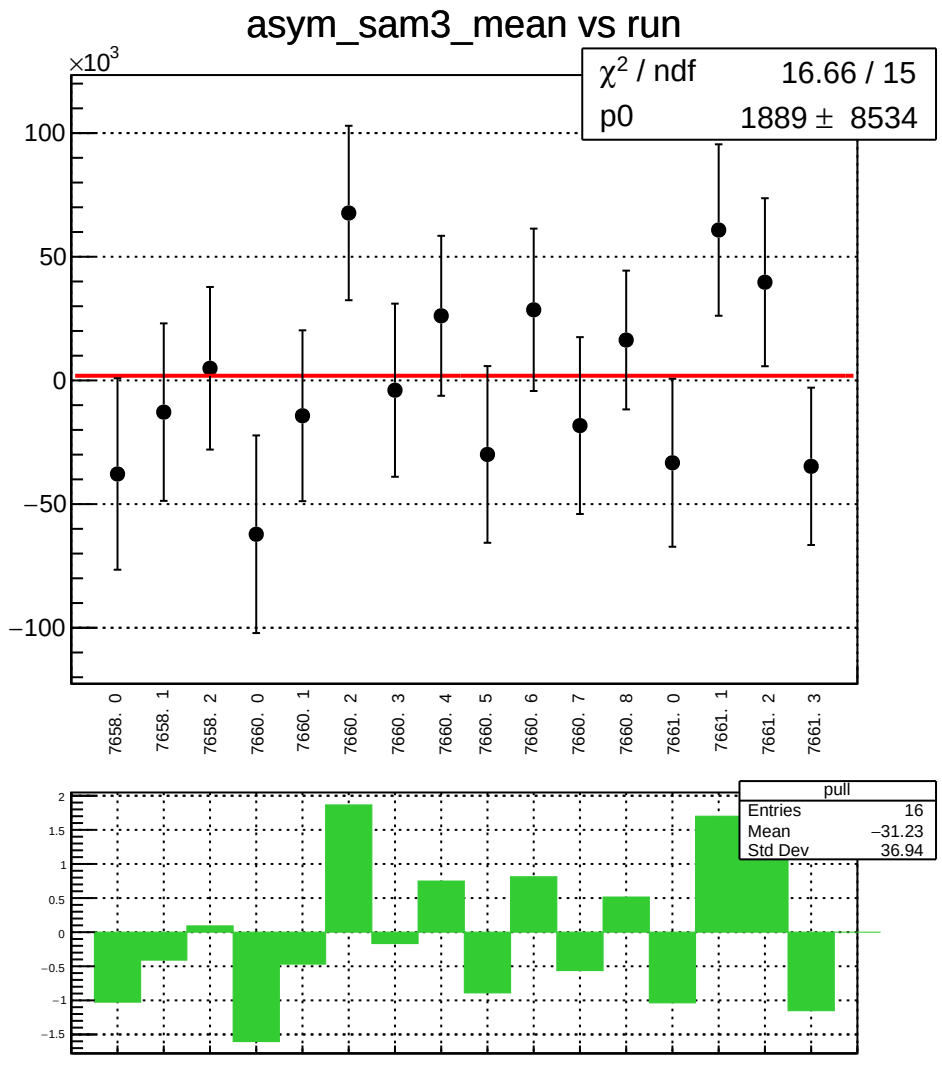

pull1D
Entries 16
Mean −0.08152
Std Dev 0.9074
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

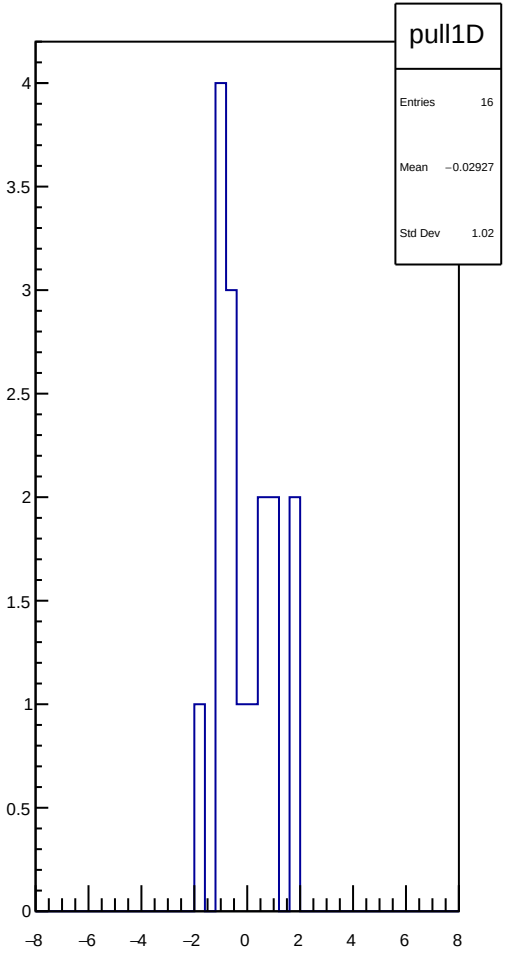

dit_asym_sam3_rms vs run
χ² / ndf 1.322e+04 / 15
p0 301.7 ± 0.561
800
700
600
500
400
300
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

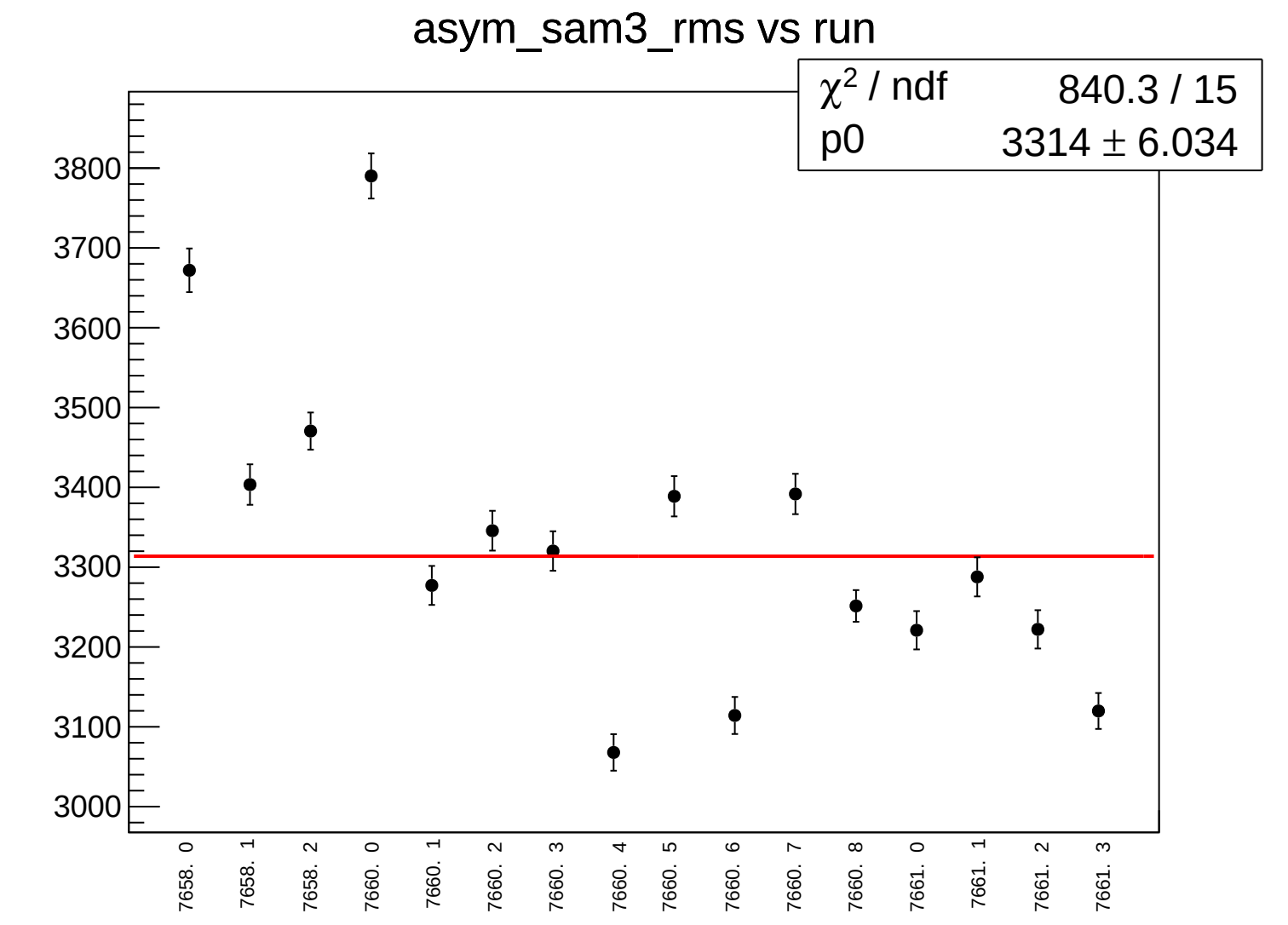

asym_sam3_correction_mean vs run
×10^3
χ² / ndf 16.4 / 15
p0 −864.6 ± 8260
100
50
0
−50
−100
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −107.8
Std Dev 114
1.5
1
0.5
0
−0.5
−1
−1.5

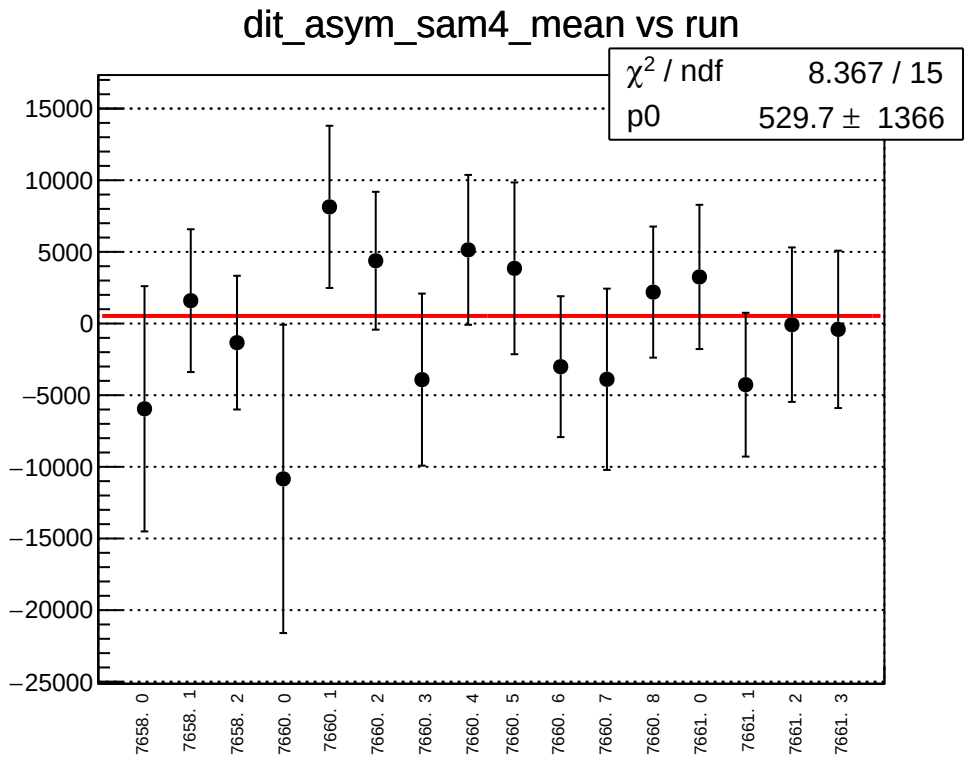

pull1D
Entries 16
Mean 0.01013
Std Dev 1.012
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

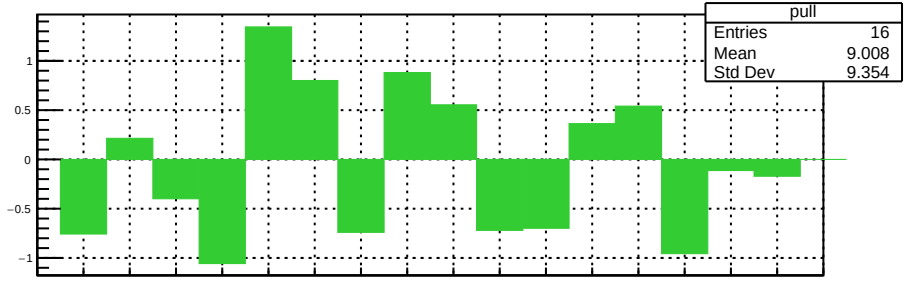

asym_sam3_correction_rms vs run
χ² / ndf 269.6 / 15
p0 3211 ± 5.841
3350
3300
3250
3200
3150
3100
3050
3000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

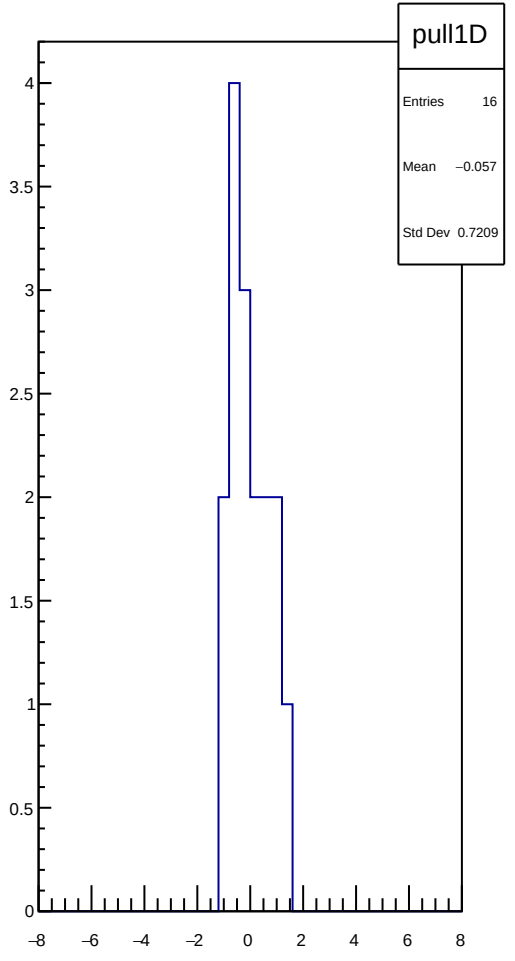

asym_sam3_mean vs run
×10^3
χ^2 / ndf 16.66 / 15
p0 1889 ± 8534
100
50
0
−50
−100
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −31.23
Std Dev 36.94
2
1.5
1
0.5
0
−0.5
−1
−1.5

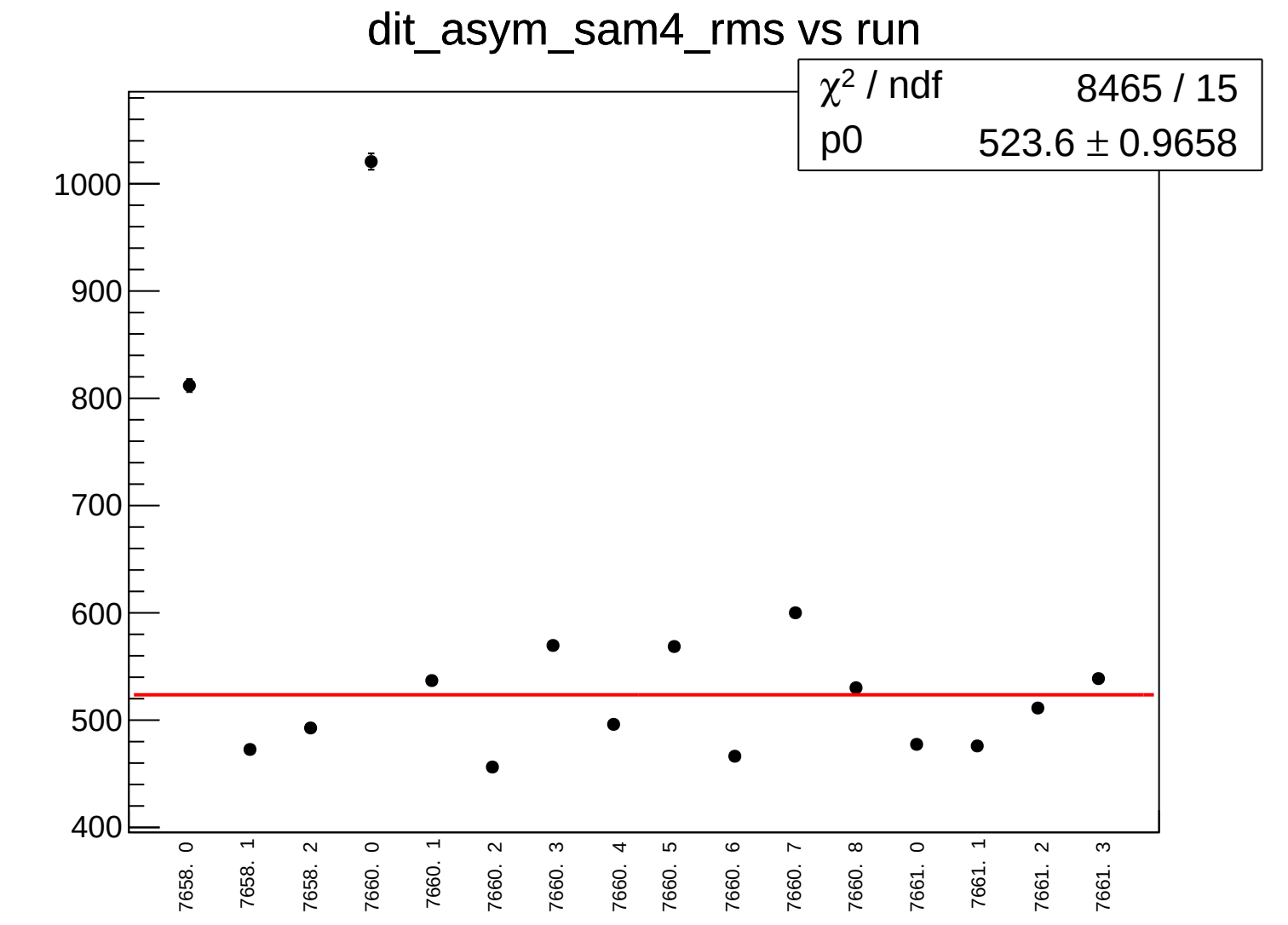

pull1D
Entries 16
Mean −0.02927
Std Dev 1.02
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

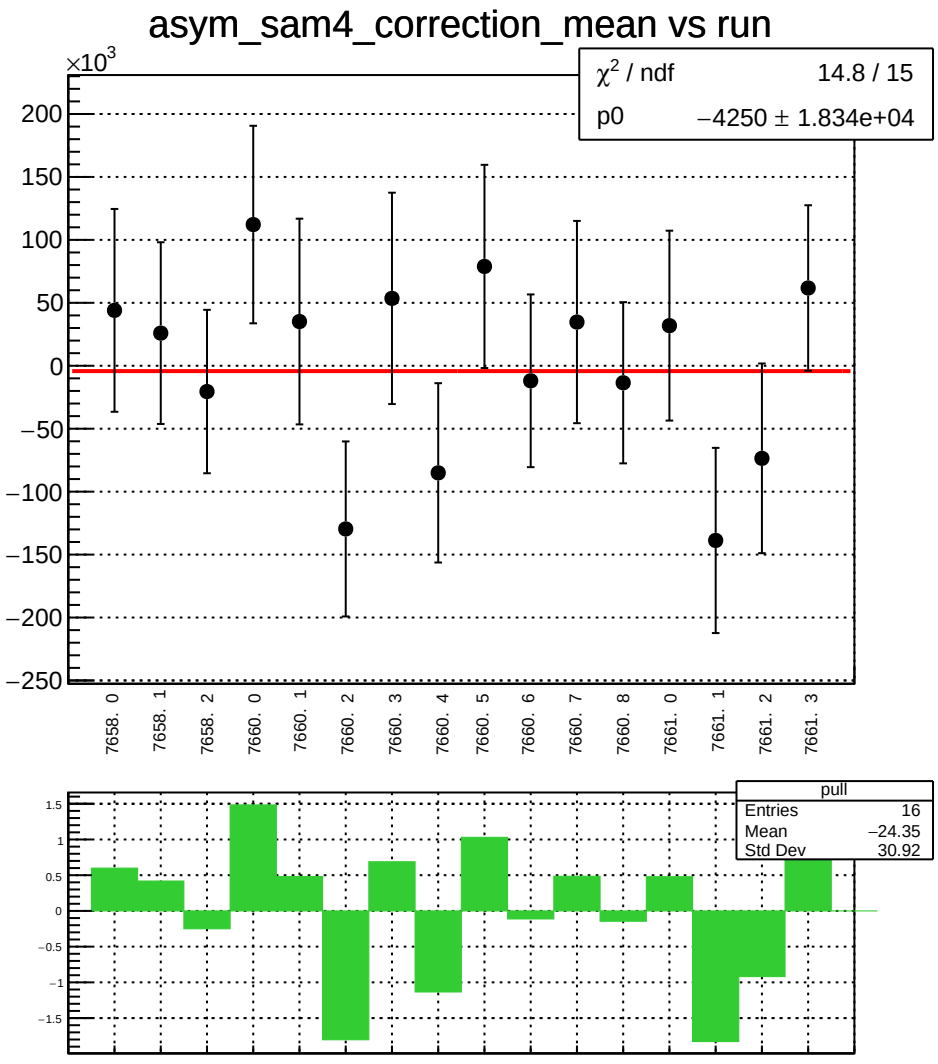

asym_sam3_rms vs run
χ² / ndf 840.3 / 15
p0 3314 ± 6.034
3800
3700
3600
3500
3400
3300
3200
3100
3000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

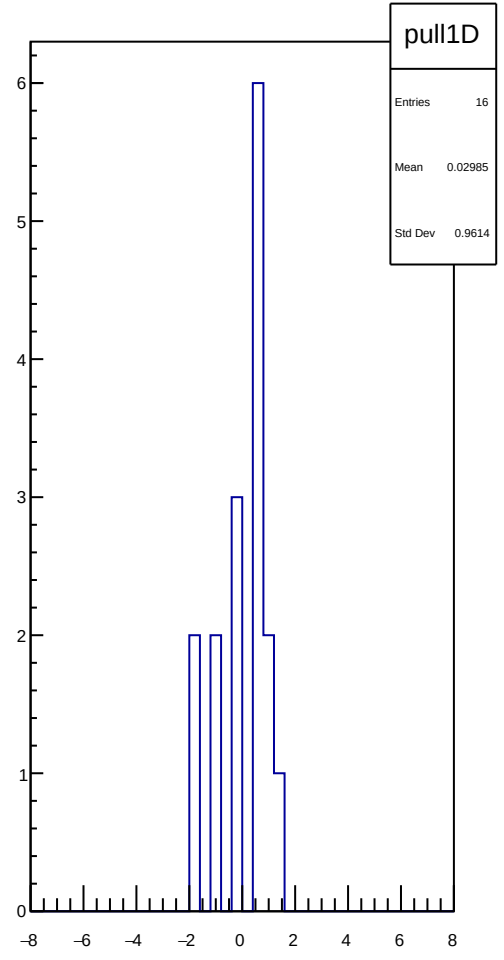

dit_asym_sam4_mean vs run
χ² / ndf 8.367 / 15
p0 529.7 ± 1366
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

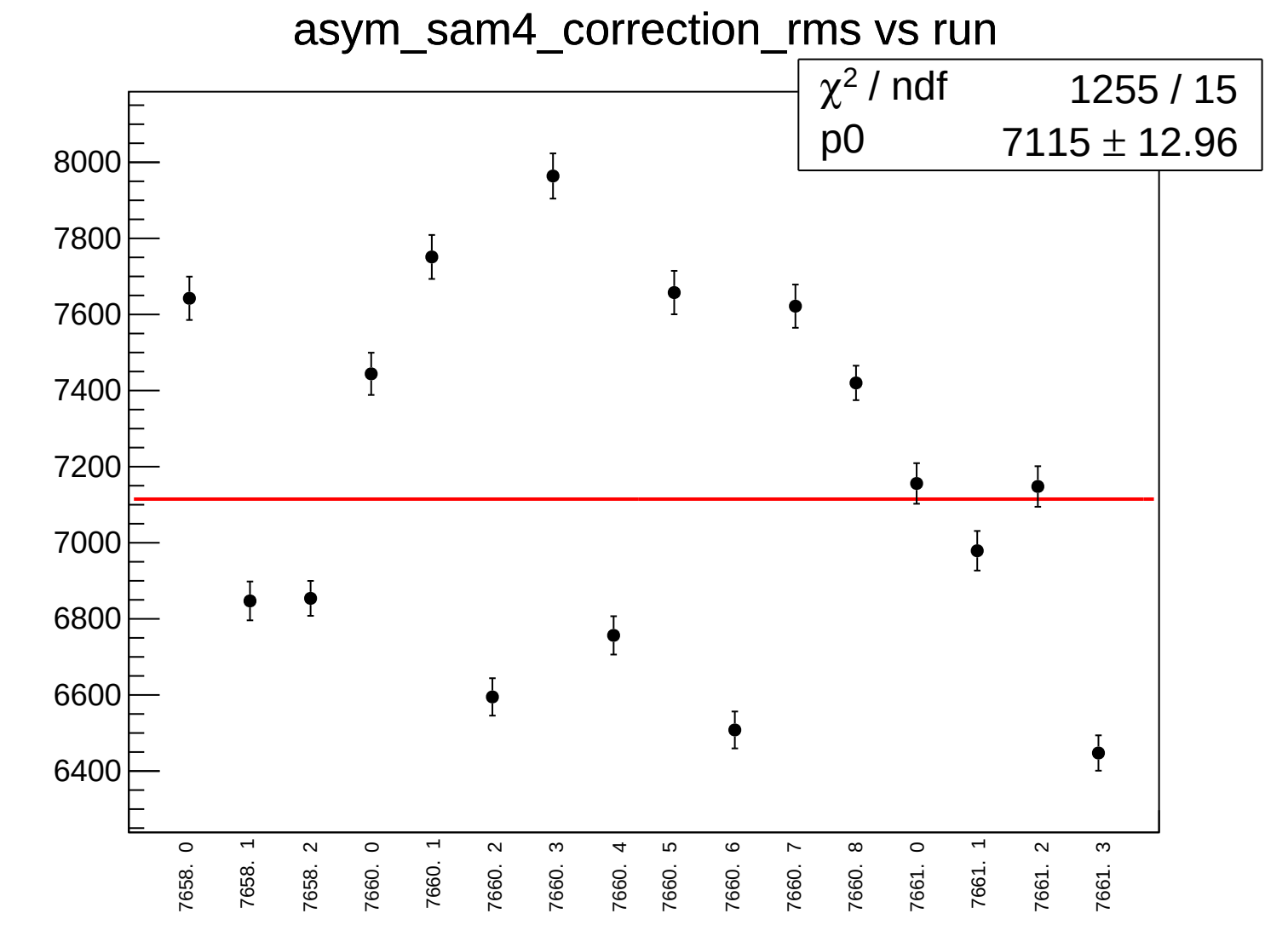

pull
Entries 16
Mean 9.008
Std Dev 9.354
1
0.5
0
−0.5
−1

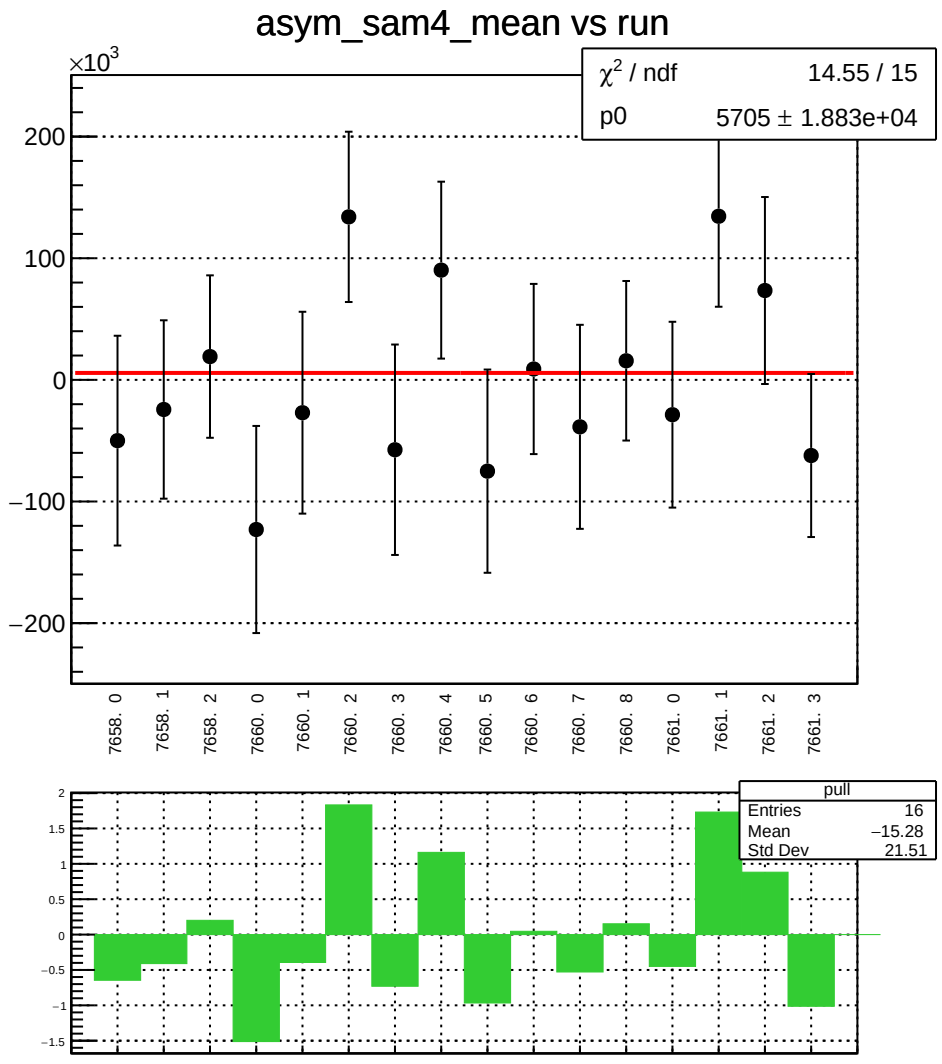

pull1D
Entries 16
Mean −0.057
Std Dev 0.7209
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

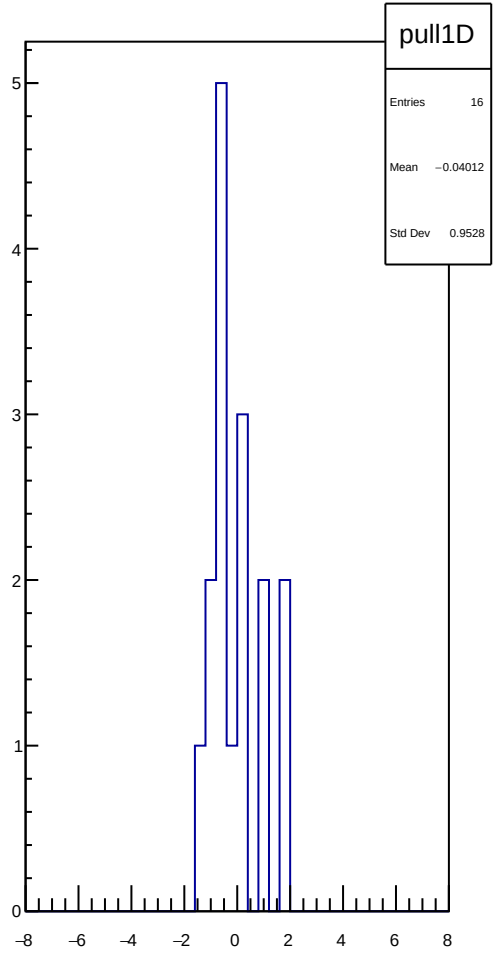

dit_asym_sam4_rms vs run
χ² / ndf 8465 / 15
p0 523.6 ± 0.9658
1000
900
800
700
600
500
400
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

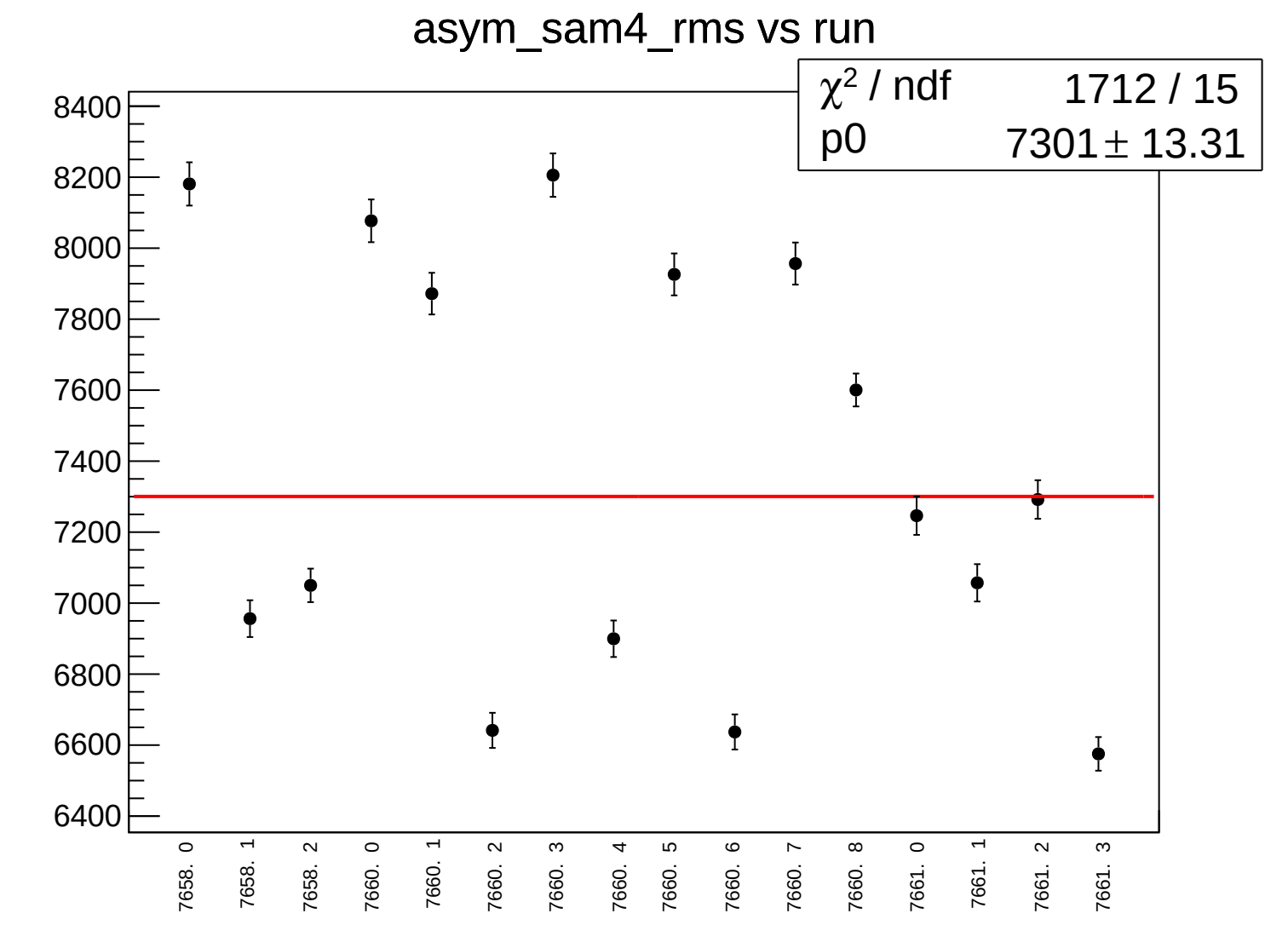

asym_sam4_correction_mean vs run
×10^3
χ² / ndf 14.8 / 15
p0 −4250 ± 1.834e+04
200
150
100
50
0
−50
−100
−150
−200
−250
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −24.35
Std Dev 30.92
1.5
1
0.5
0
−0.5
−1
−1.5

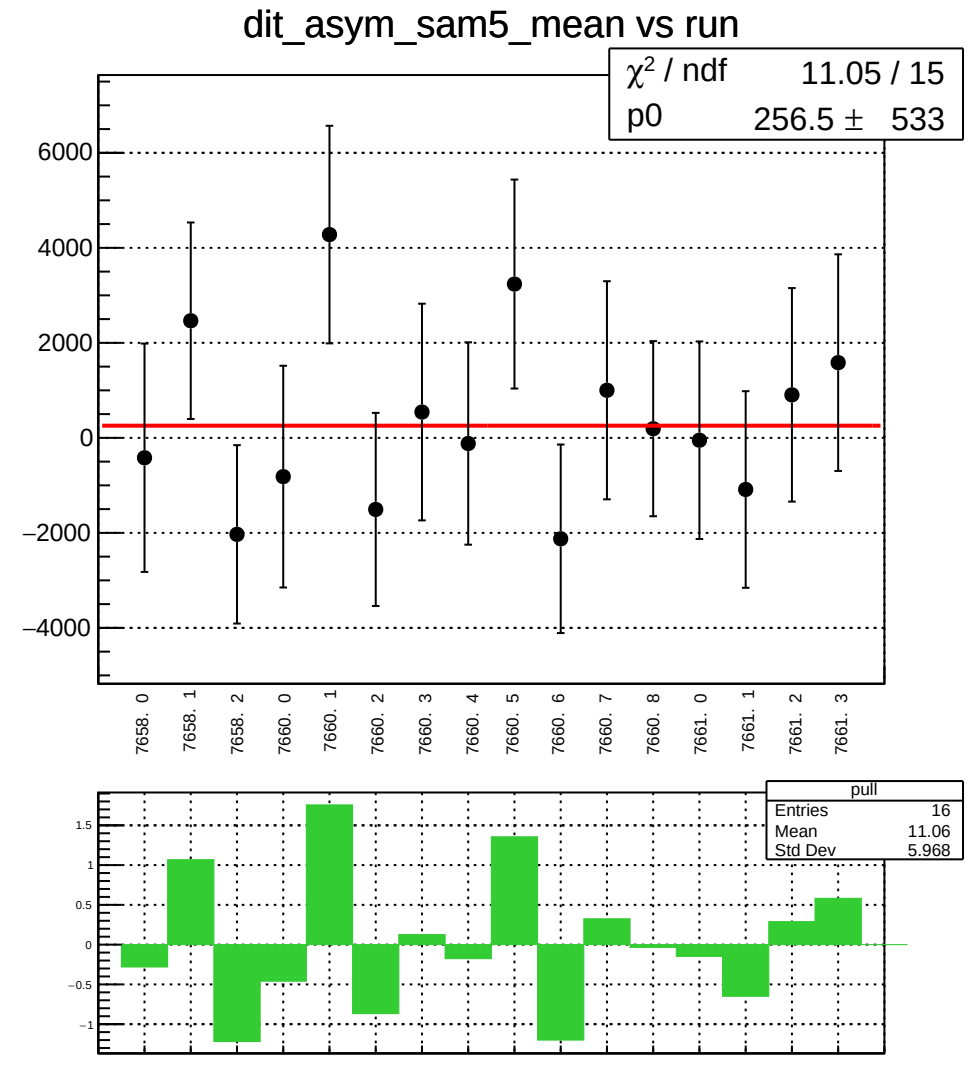

pull1D
Entries 16
Mean 0.02985
Std Dev 0.9614
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

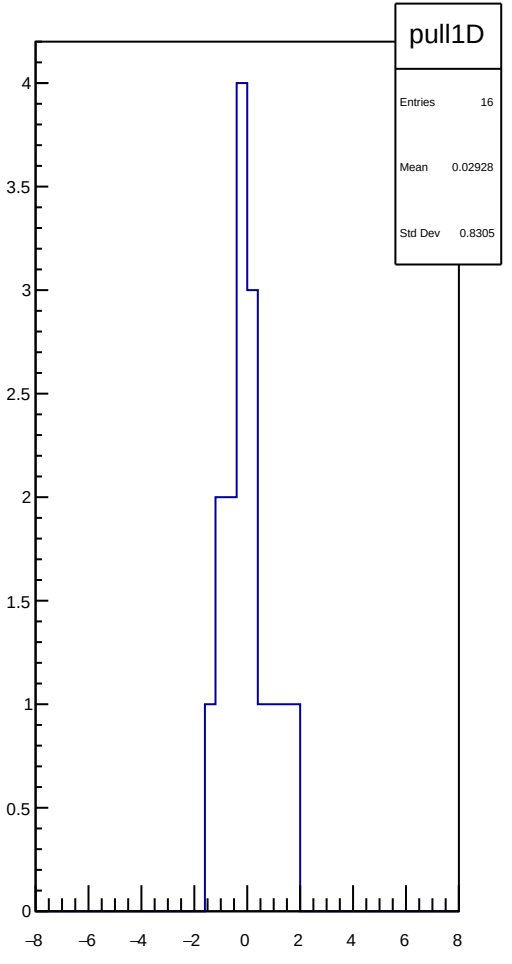

asym_sam4_correction_rms vs run
χ² / ndf 1255 / 15
p0 7115 ± 12.96
8000
7800
7600
7400
7200
7000
6800
6600
6400
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

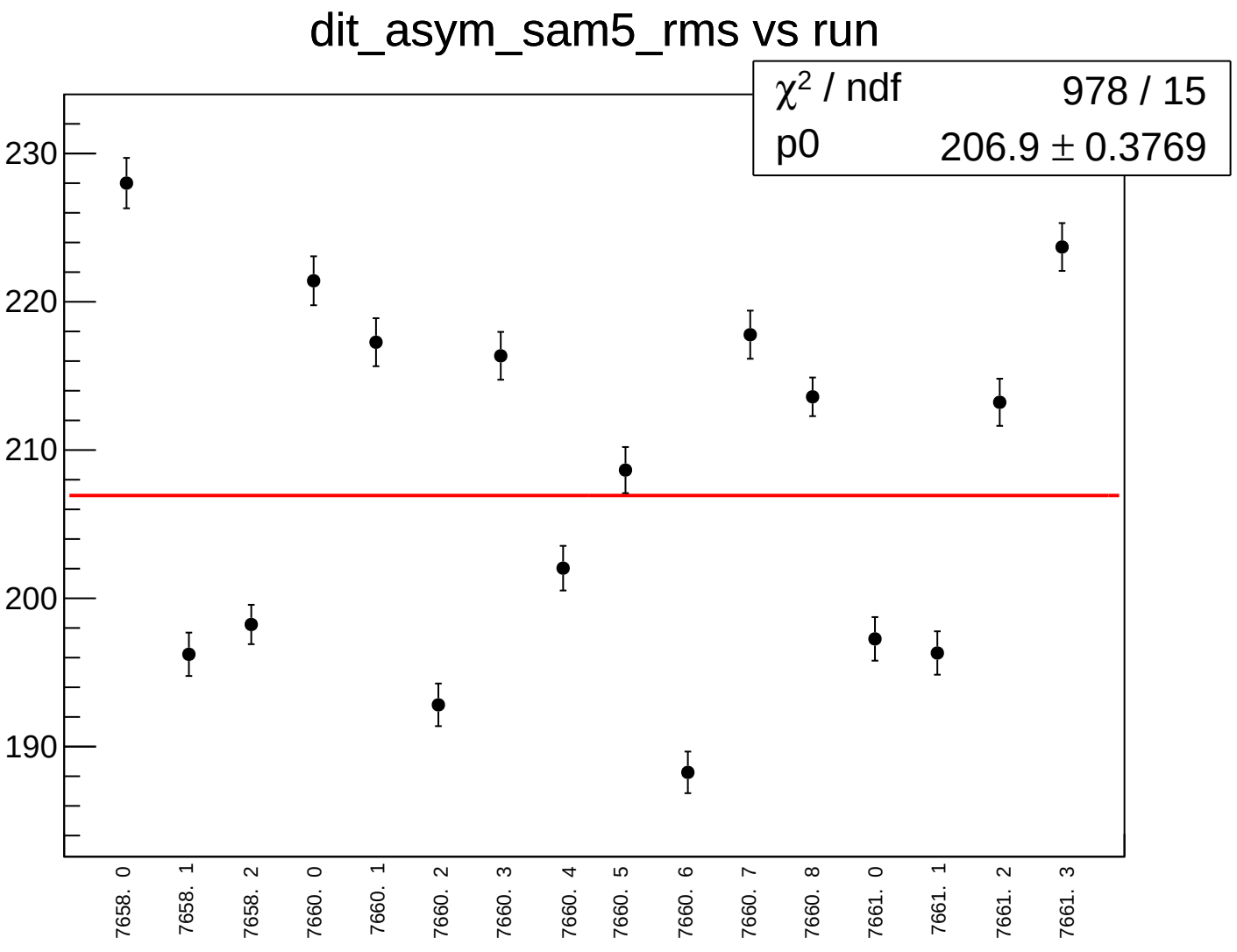

asym_sam4_mean vs run
×10^3
χ² / ndf 14.55 / 15
p0 5705 ± 1.883e+04
200
100
0
−100
−200
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −15.28
Std Dev 21.51
2
1.5
1
0.5
0
−0.5
−1
−1.5

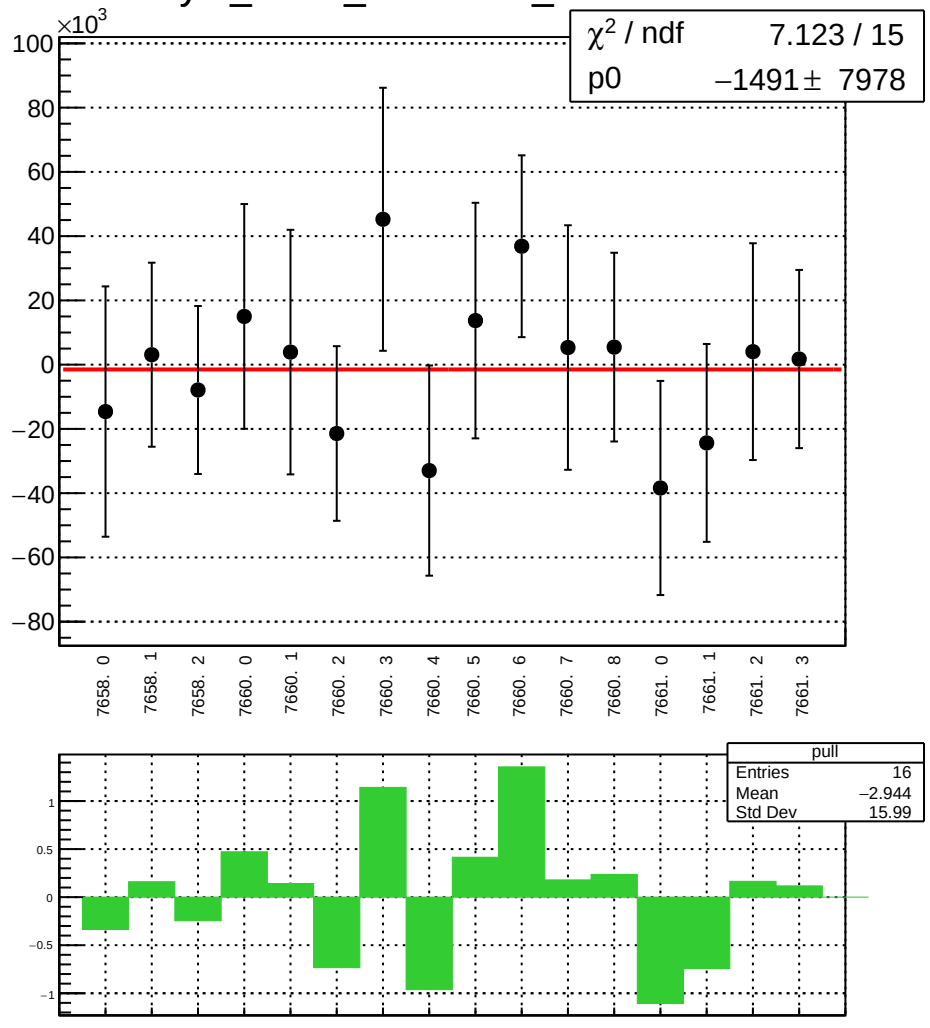

pull1D
Entries 16
Mean −0.04012
Std Dev 0.9528
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

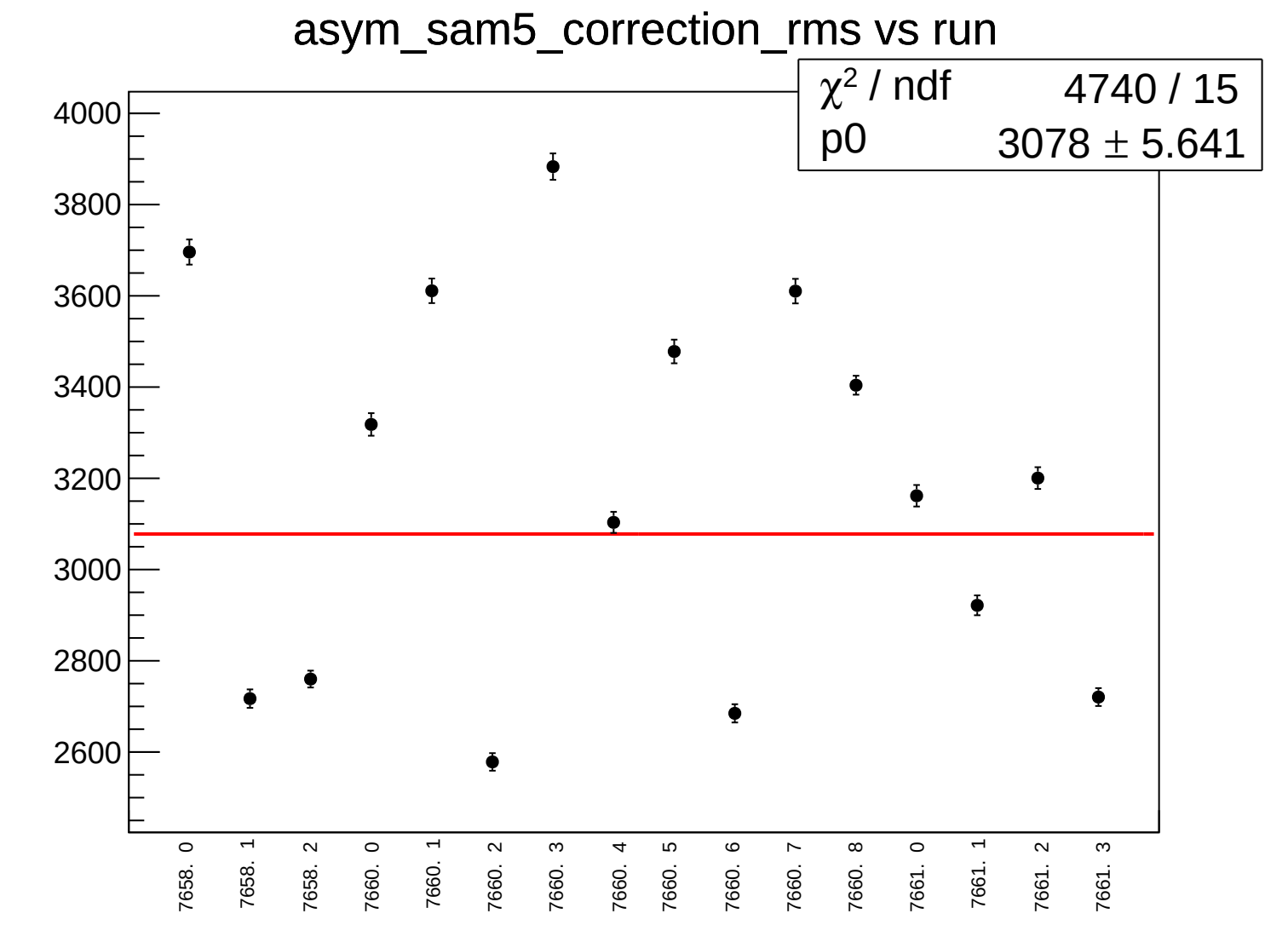

asym_sam4_rms vs run
χ² / ndf 1712 / 15
p0 7301 ± 13.31
8400
8200
8000
7800
7600
7400
7200
7000
6800
6600
6400
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

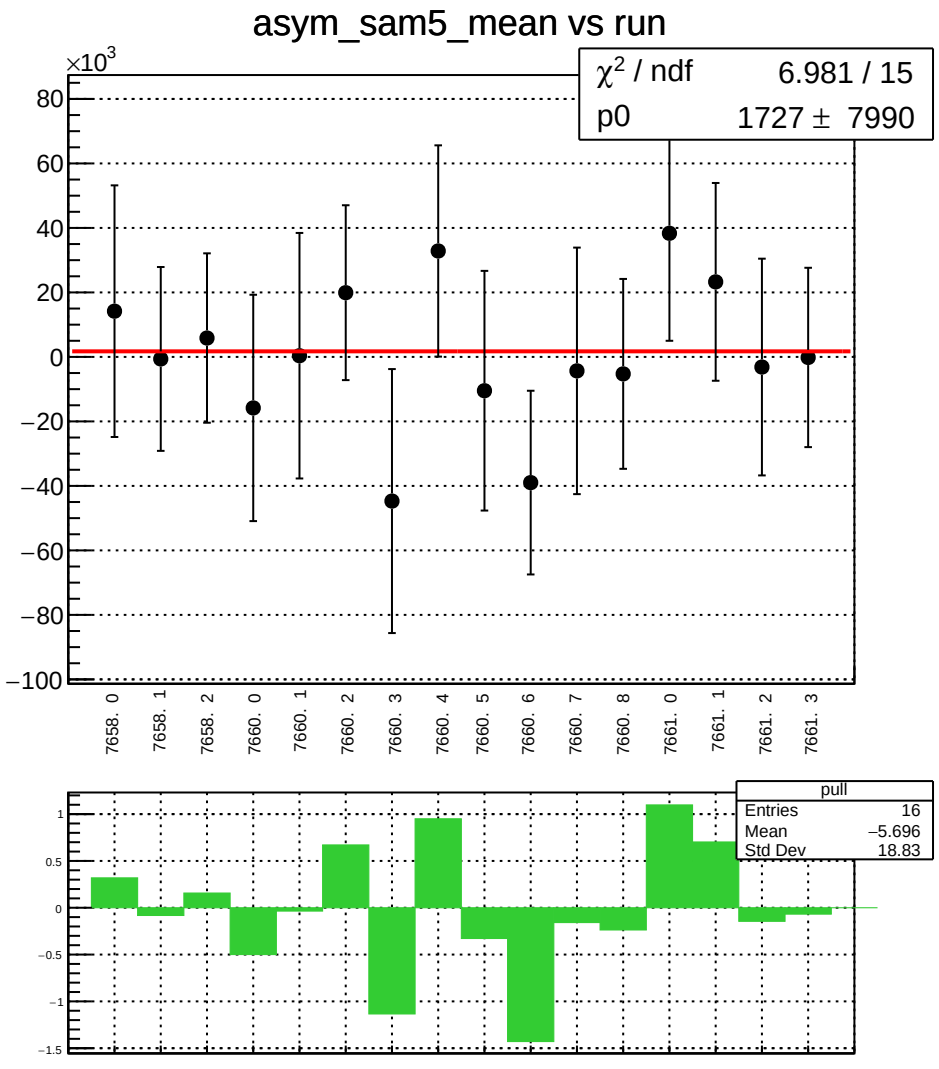

dit_asym_sam5_mean vs run
χ² / ndf 11.05 / 15
p0 256.5 ± 533
6000
4000
2000
0
−2000
−4000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 11.06
Std Dev 5.968
1.5
1
0.5
0
−0.5
−1

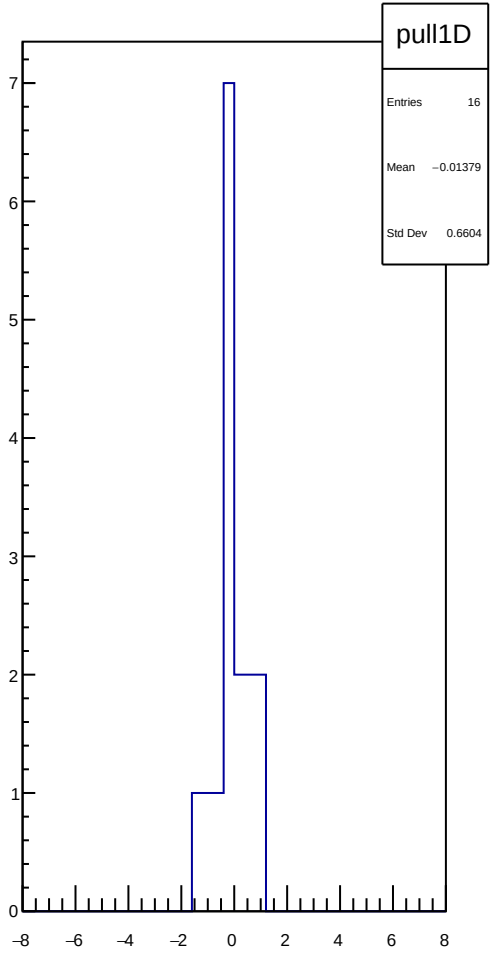

pull1D
Entries 16
Mean 0.02928
Std Dev 0.8305
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

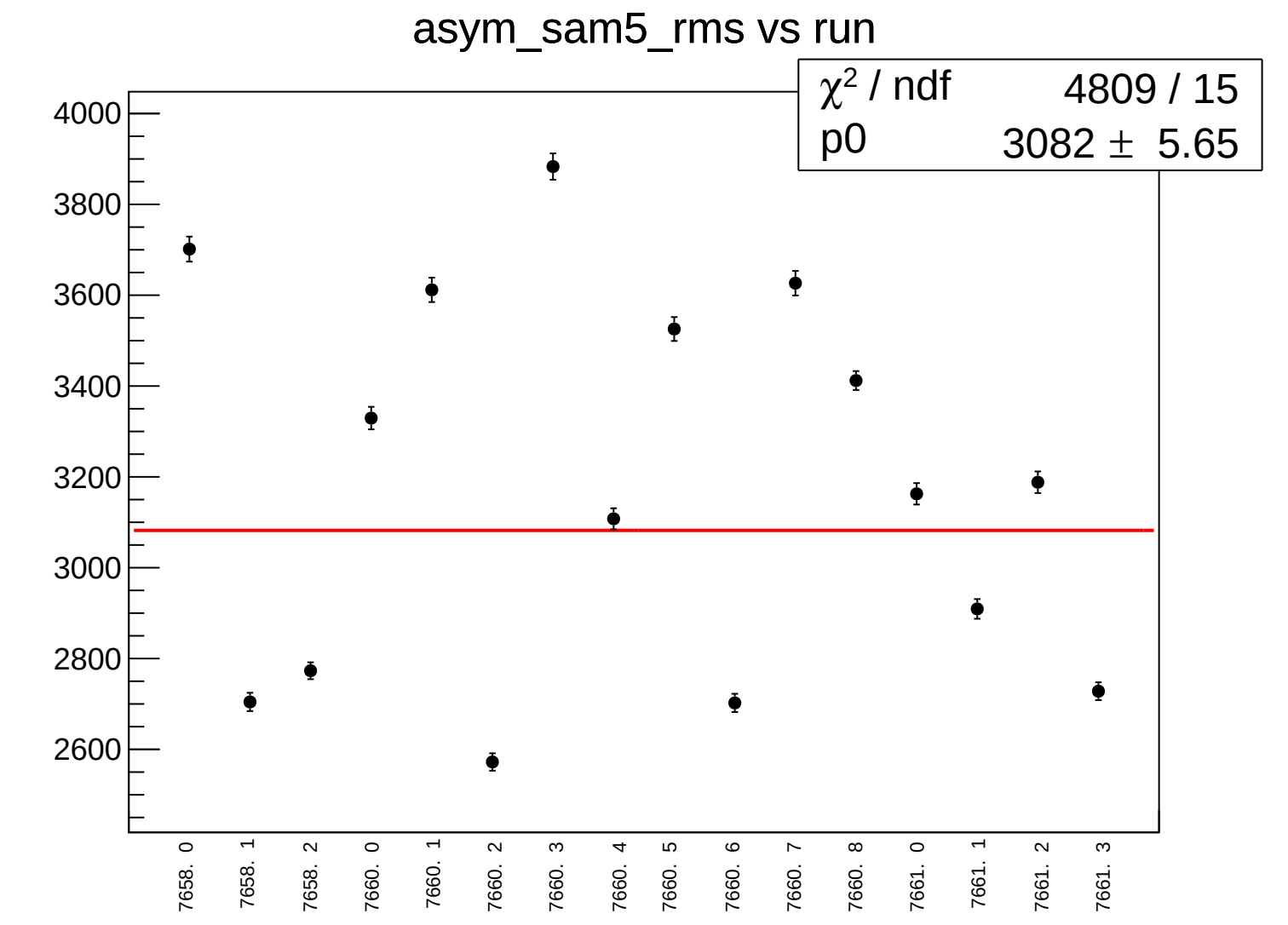

dit_asym_sam5_rms vs run
χ² / ndf 978 / 15
p0 206.9 ± 0.3769
230
220
210
200
190
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

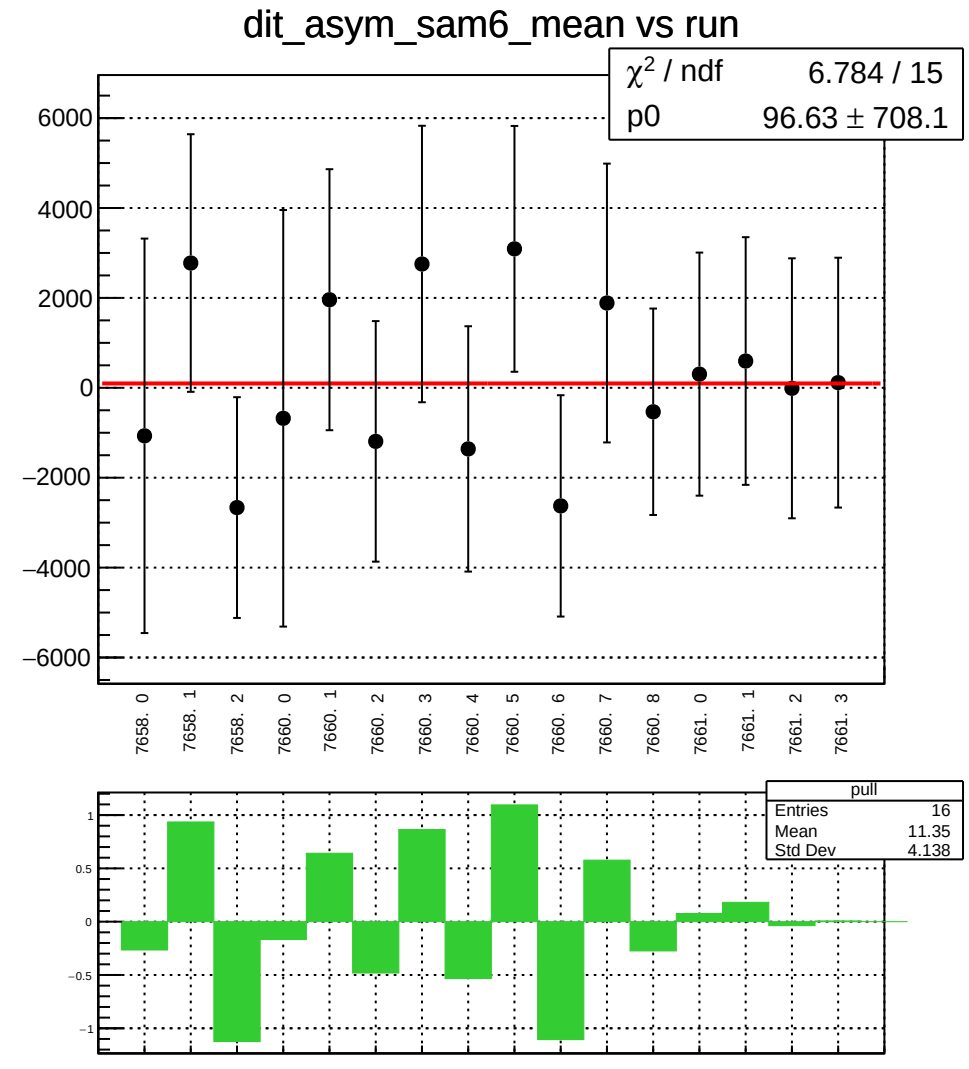

asym_sam5_correction_mean vs run
×10^3
χ^2 / ndf 7.123 / 15
p0 −1491 ± 7978
100
80
60
40
20
0
−20
−40
−60
−80
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −2.944
Std Dev 15.99
1
0.5
0
−0.5
−1
pull1D
Entries 16
Mean 0.01596
Std Dev 0.667
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

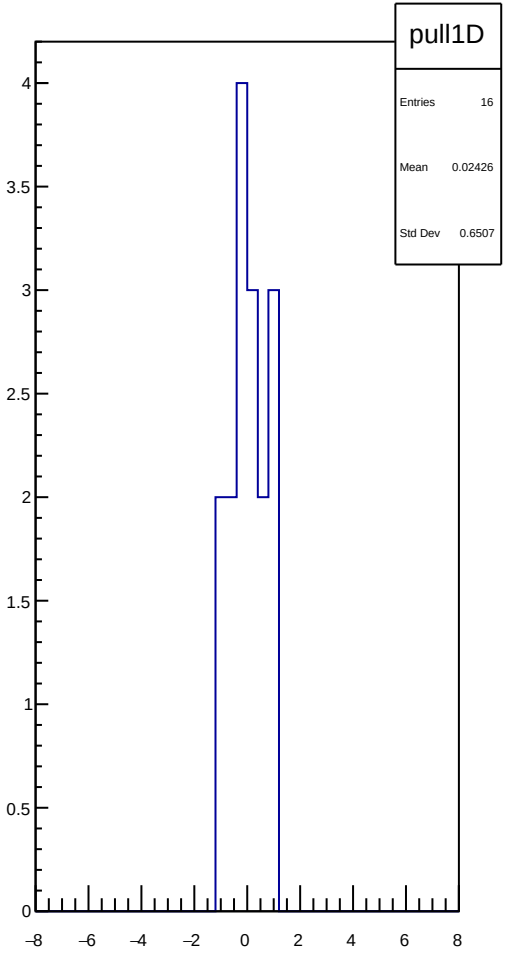

asym_sam5_correction_rms vs run
χ² / ndf 4740 / 15
p0 3078 ± 5.641
4000
3800
3600
3400
3200
3000
2800
2600
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

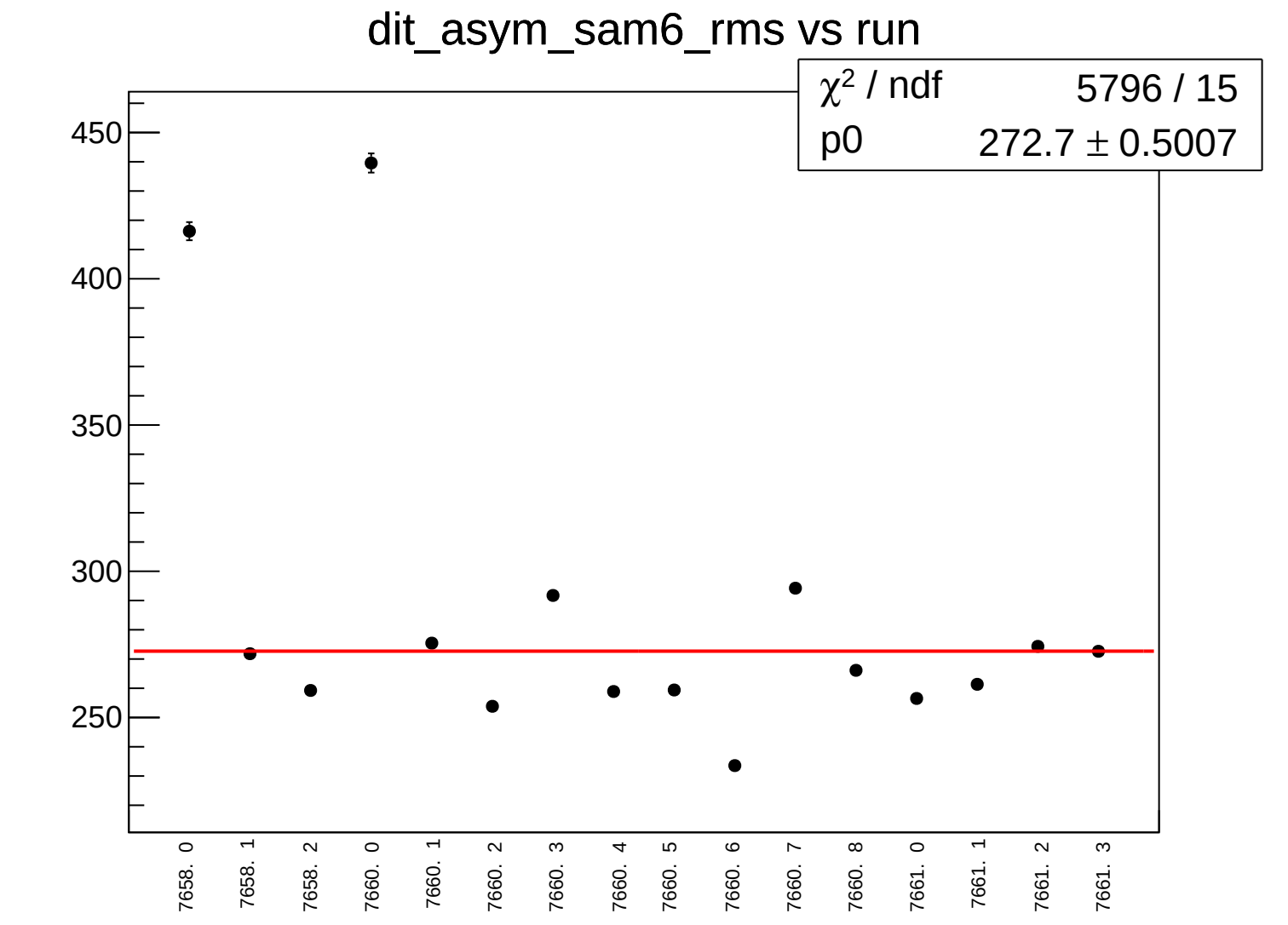

asym_sam5_mean vs run
×10^3
χ^2 / ndf 6.981 / 15
p0 1727 ± 7990
80
60
40
20
0
−20
−40
−60
−80
−100
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −5.696
Std Dev 18.83
1
0.5
0
−0.5
−1
−1.5

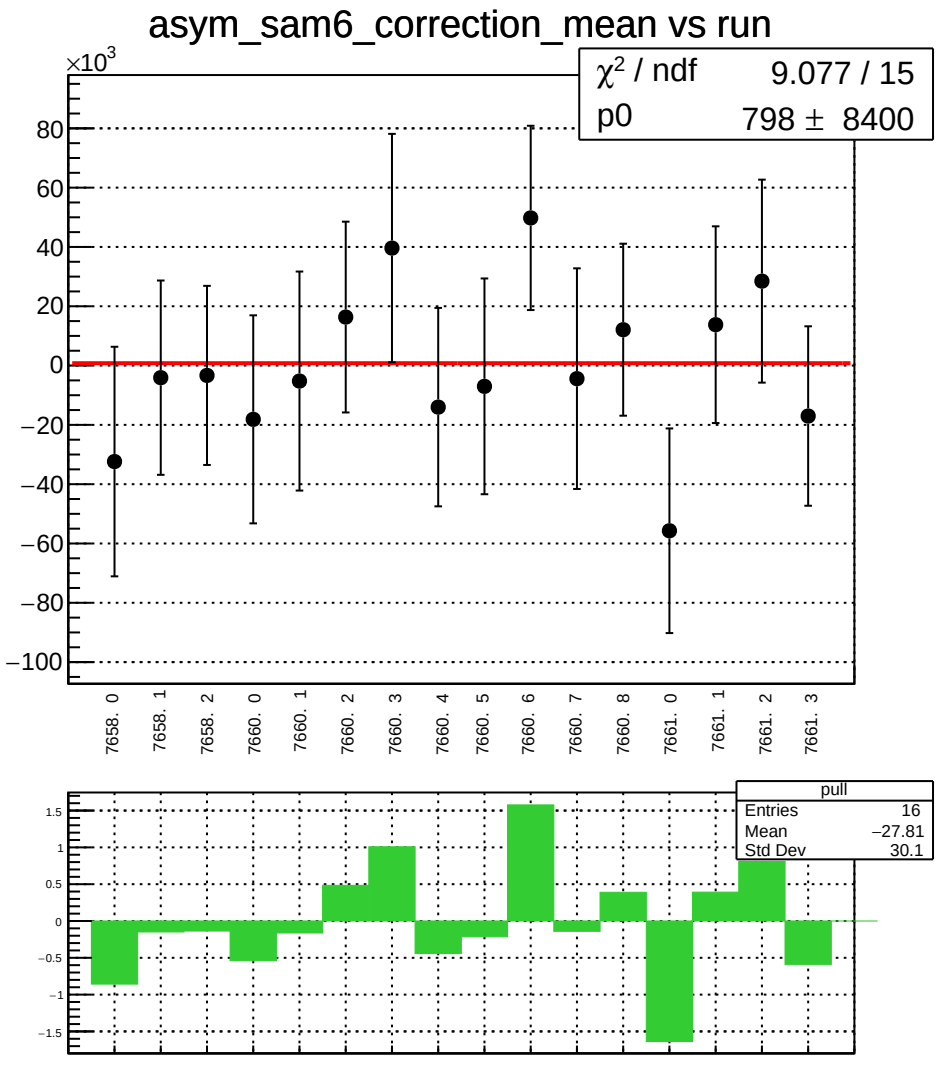

pull1D
Entries 16
Mean −0.01379
Std Dev 0.6604
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

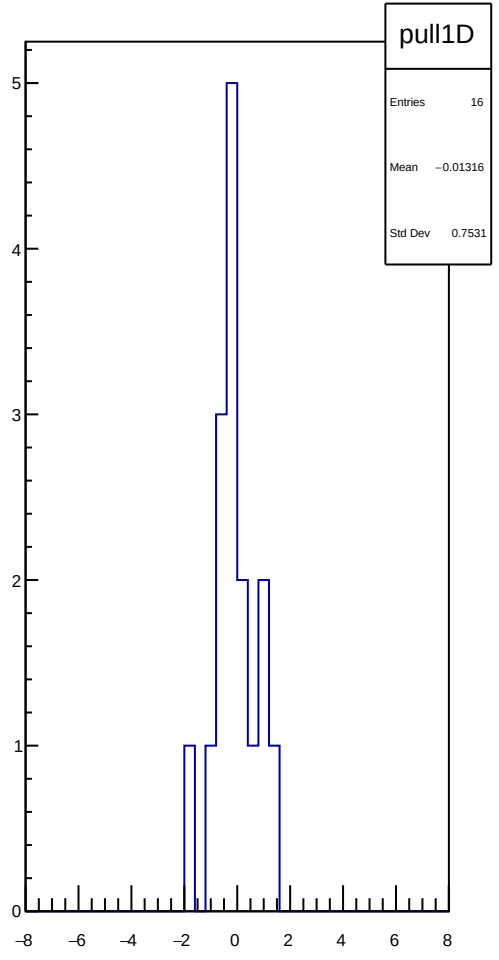

asym_sam5_rms vs run
χ² / ndf 4809 / 15
p0 3082 ± 5.65
4000
3800
3600
3400
3200
3000
2800
2600
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

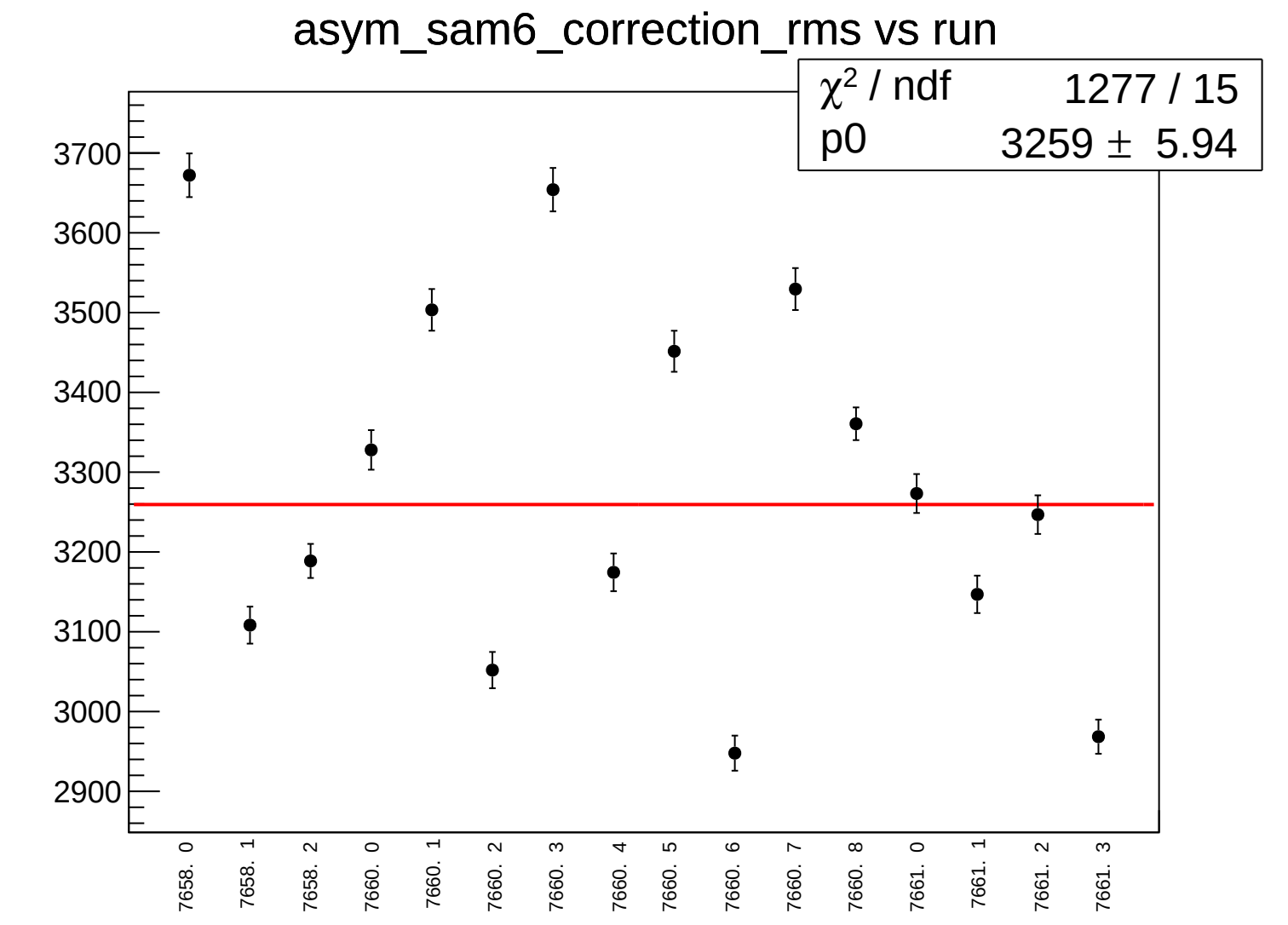

dit_asym_sam6_mean vs run
χ² / ndf 6.784 / 15
p0 96.63 ± 708.1
6000
4000
2000
0
−2000
−4000
−6000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 11.35
Std Dev 4.138
1
0.5
0
−0.5
−1

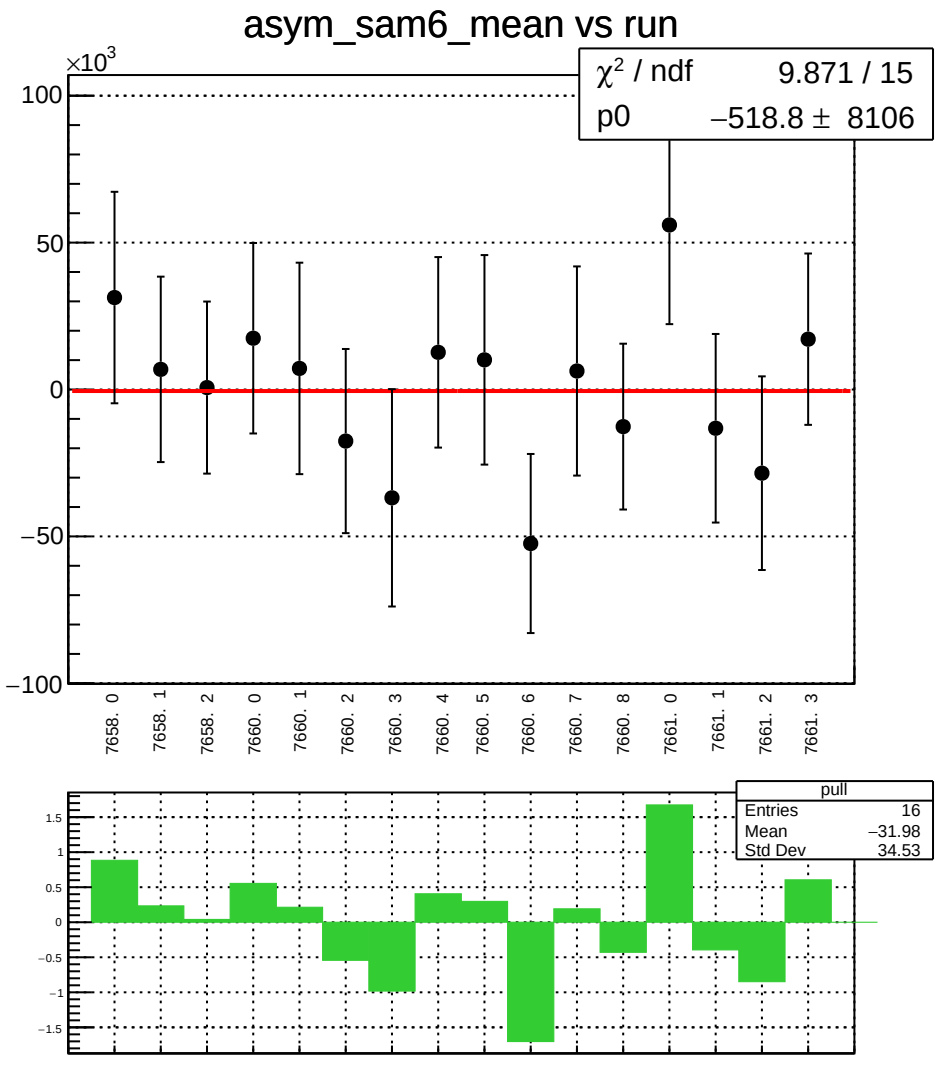

pull1D
Entries 16
Mean 0.02426
Std Dev 0.6507
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

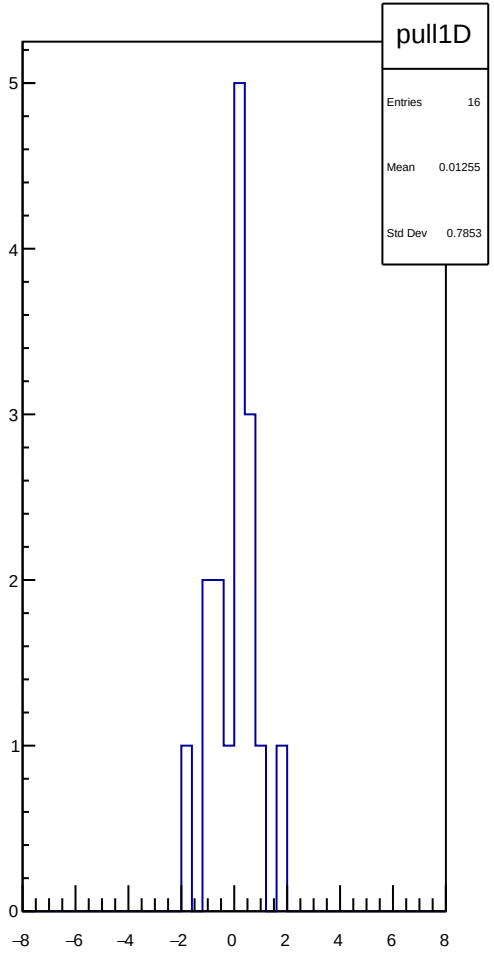

dit_asym_sam6_rms vs run
χ² / ndf 5796 / 15
p0 272.7 ± 0.5007
450
400
350
300
250
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

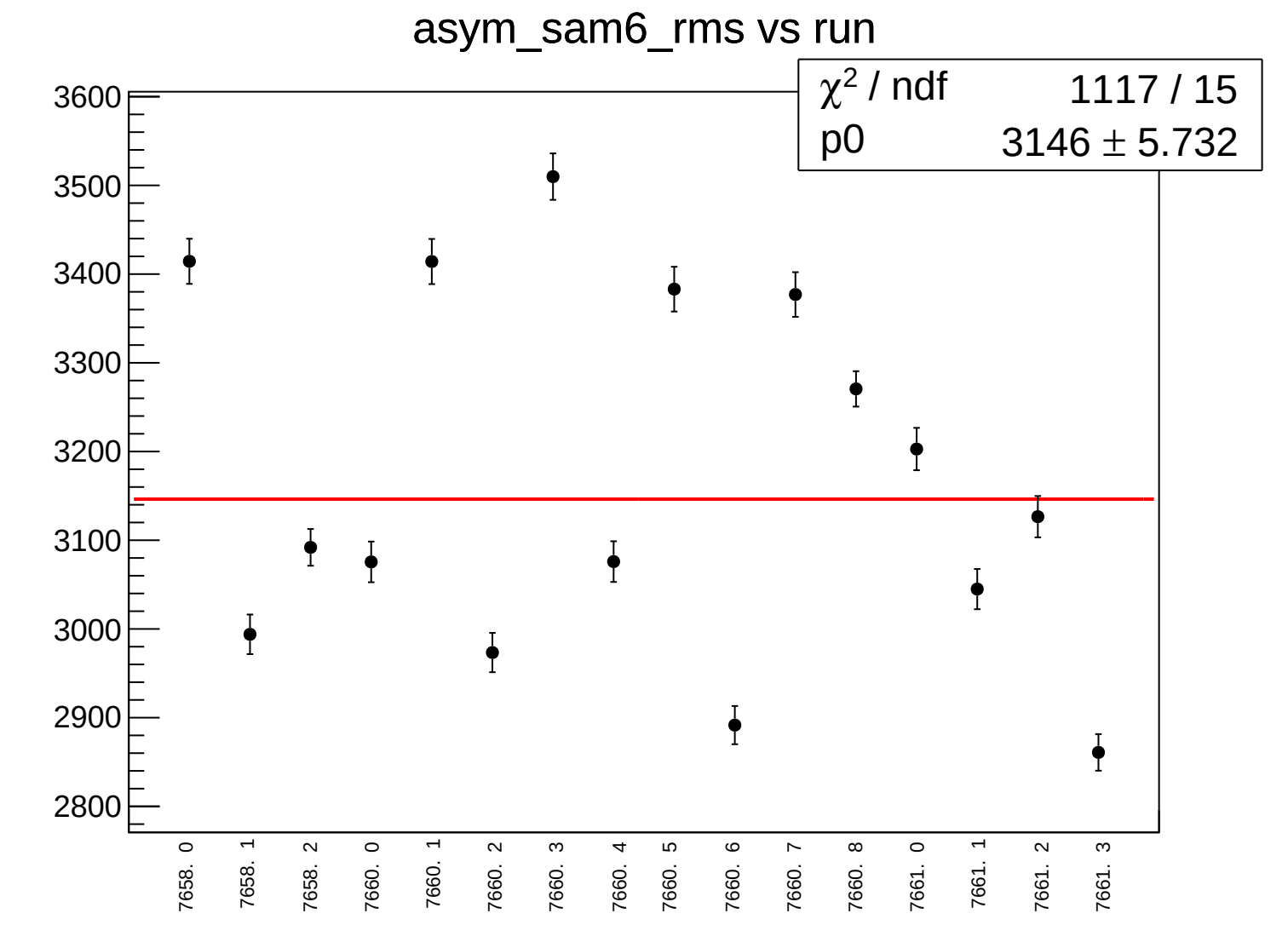

asym_sam6_correction_mean vs run
×10^3
χ² / ndf 9.077 / 15
p0 798 ± 8400
80
60
40
20
0
−20
−40
−60
−80
−100
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −27.81
Std Dev 30.1
1.5
1
0.5
0
−0.5
−1
−1.5

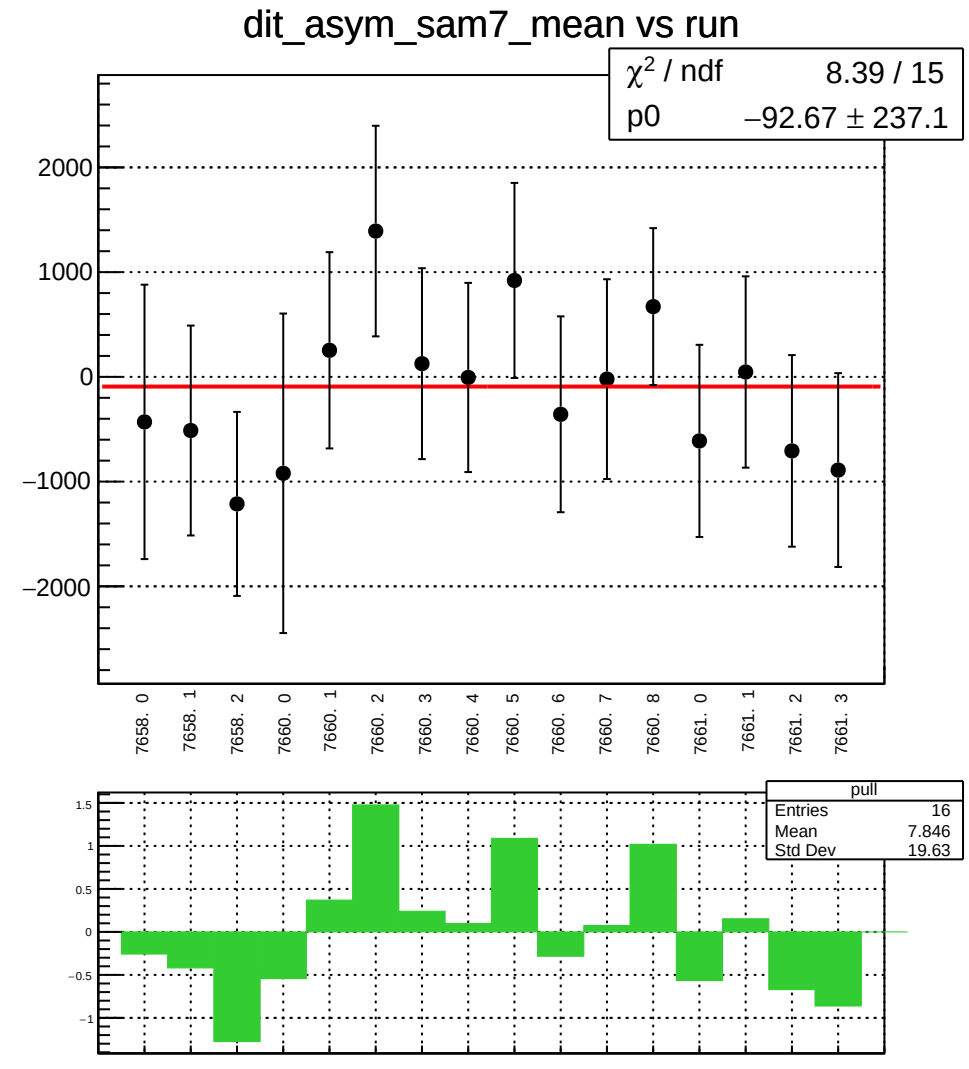

pull1D
Entries 16
Mean −0.01316
Std Dev 0.7531
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

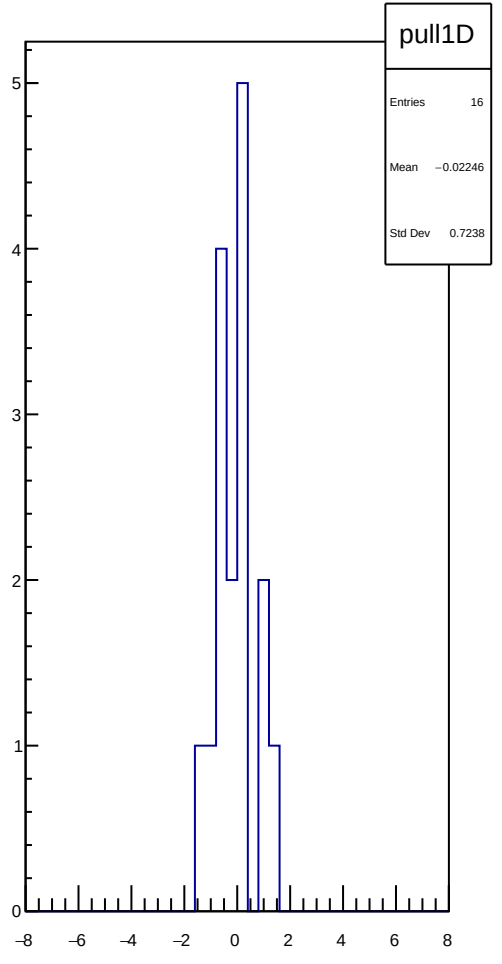

asym_sam6_correction_rms vs run
χ² / ndf 1277 / 15
p0 3259 ± 5.94
3700
3600
3500
3400
3300
3200
3100
3000
2900
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

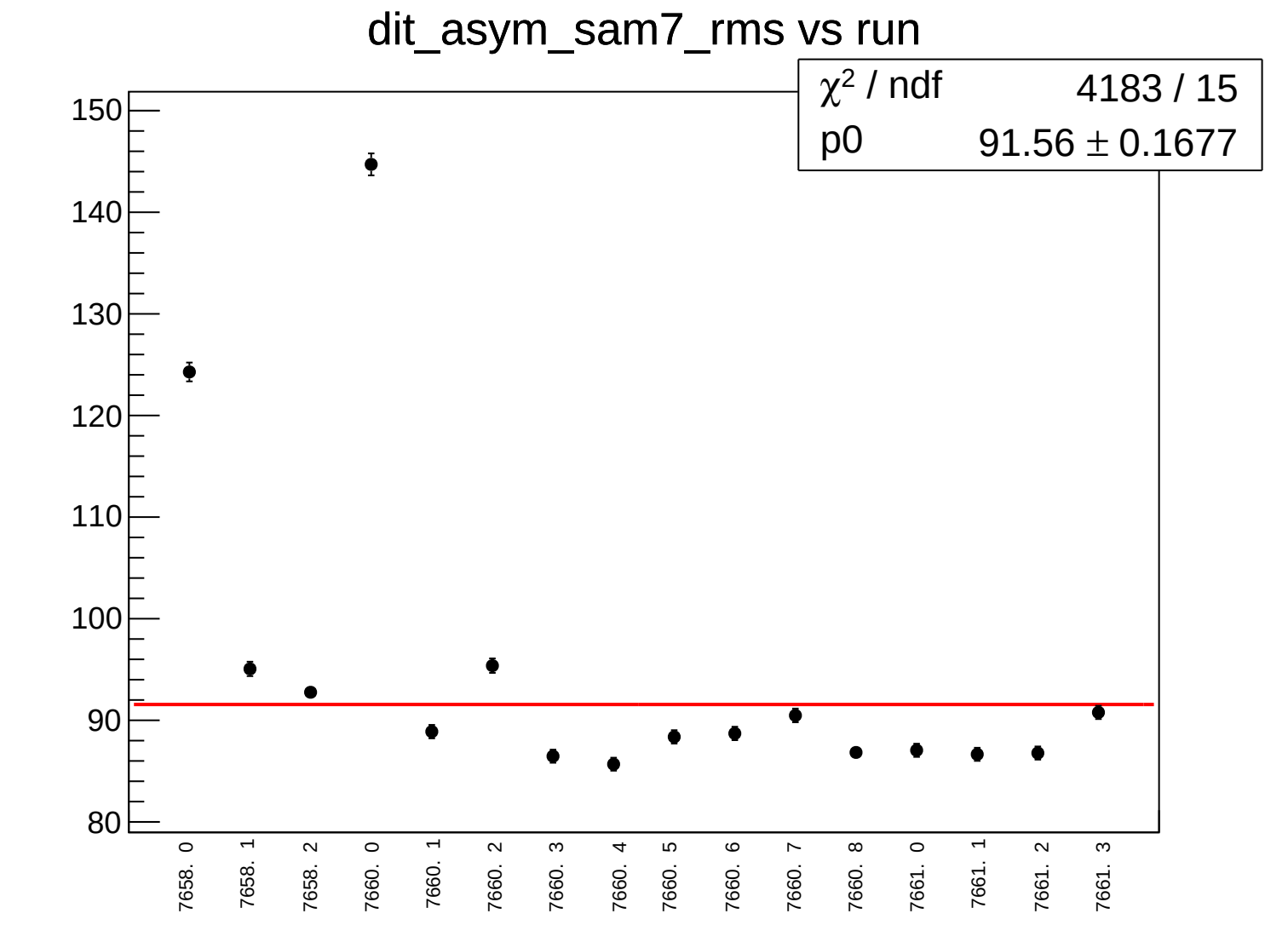

asym_sam6_mean vs run
×10^3
χ² / ndf 9.871 / 15
p0 −518.8 ± 8106
100
50
0
−50
−100
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −31.98
Std Dev 34.53
1.5
1
0.5
0
−0.5
−1
−1.5

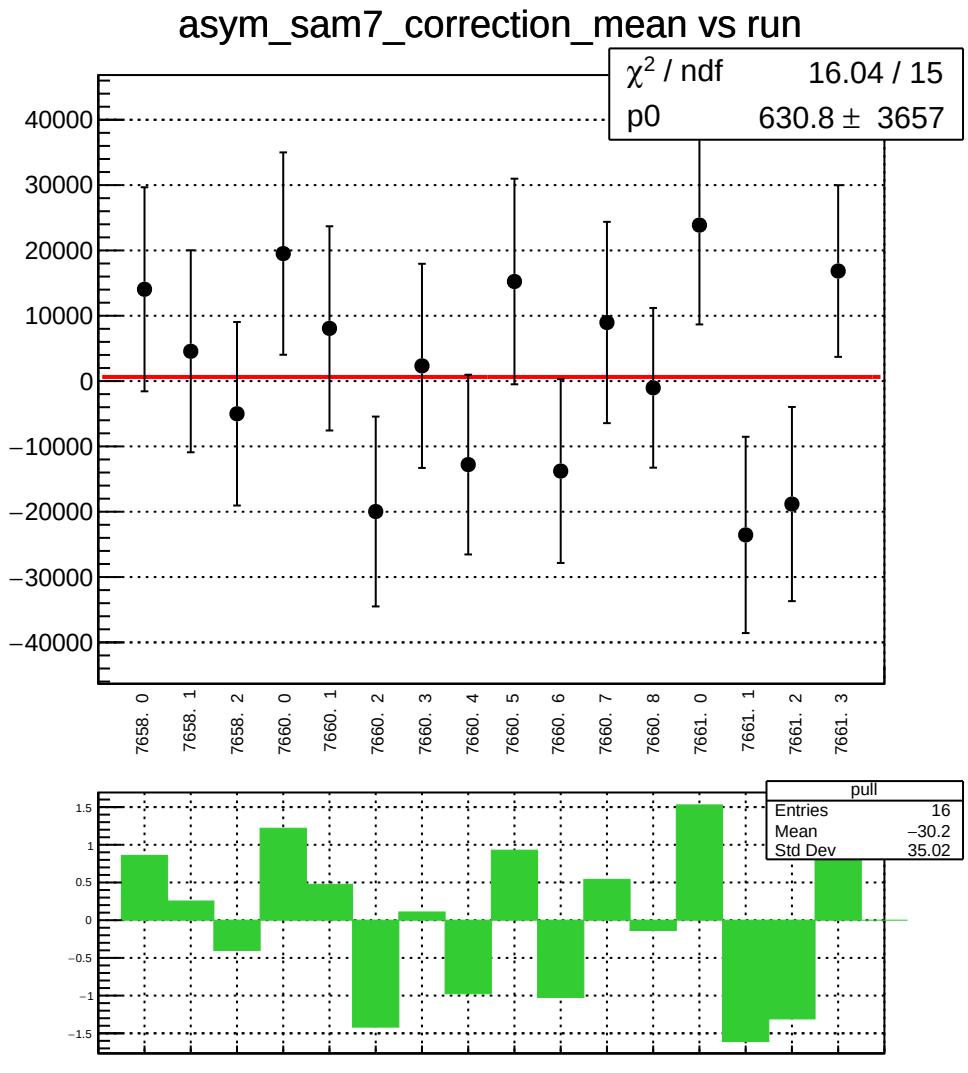

pull1D
Entries 16
Mean 0.01255
Std Dev 0.7853
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

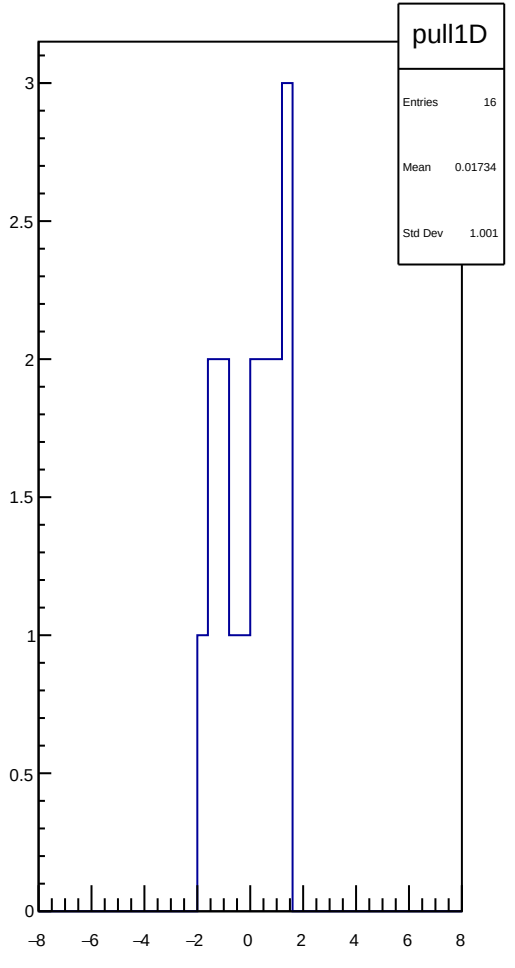

asym_sam6_rms vs run
χ² / ndf 1117 / 15
p0 3146 ± 5.732
3600
3500
3400
3300
3200
3100
3000
2900
2800
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

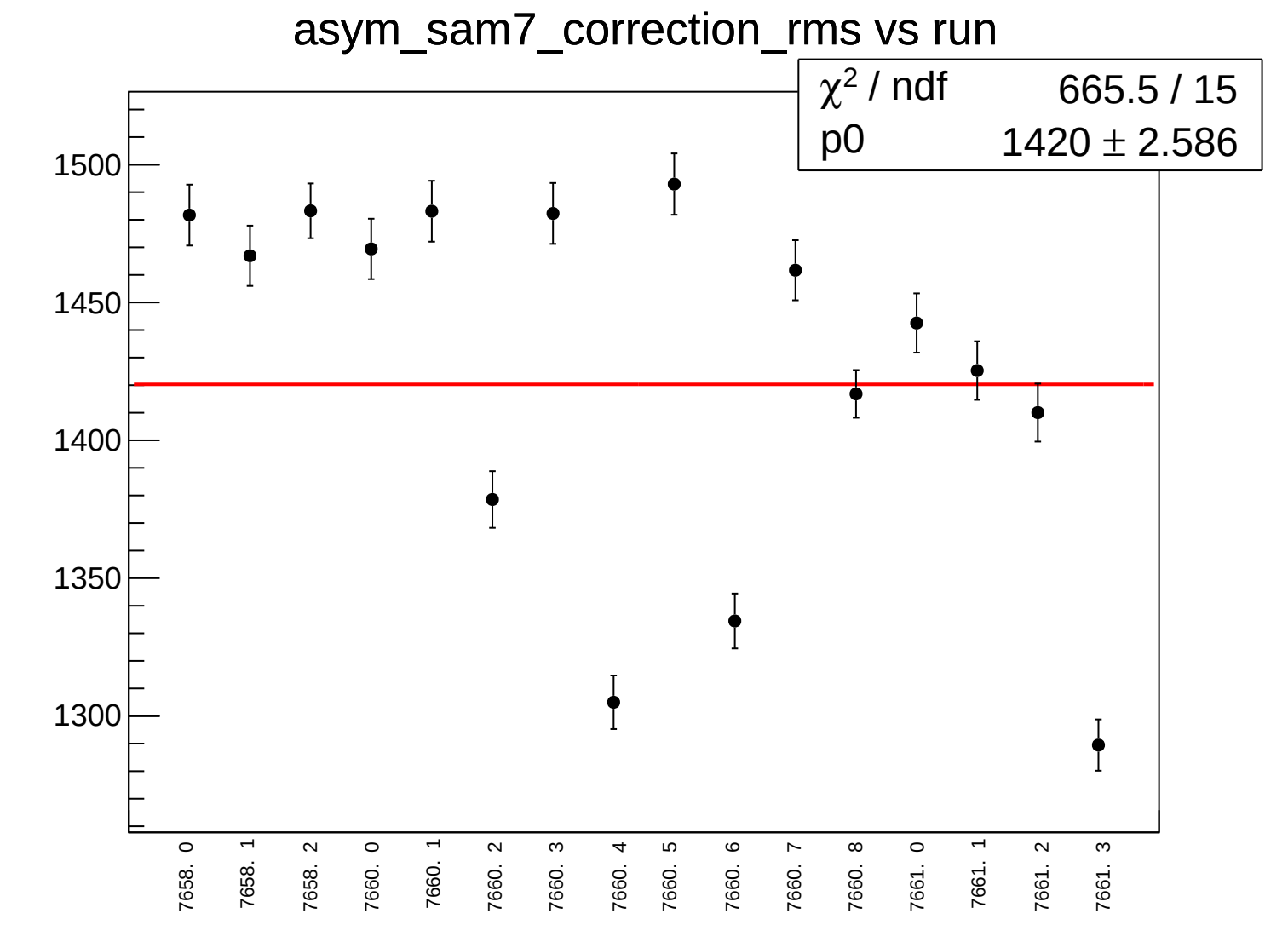

dit_asym_sam7_mean vs run
χ² / ndf 8.39 / 15
p0 −92.67 ± 237.1
2000
1000
0
−1000
−2000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 7.846
Std Dev 19.63
1.5
1
0.5
0
−0.5
−1

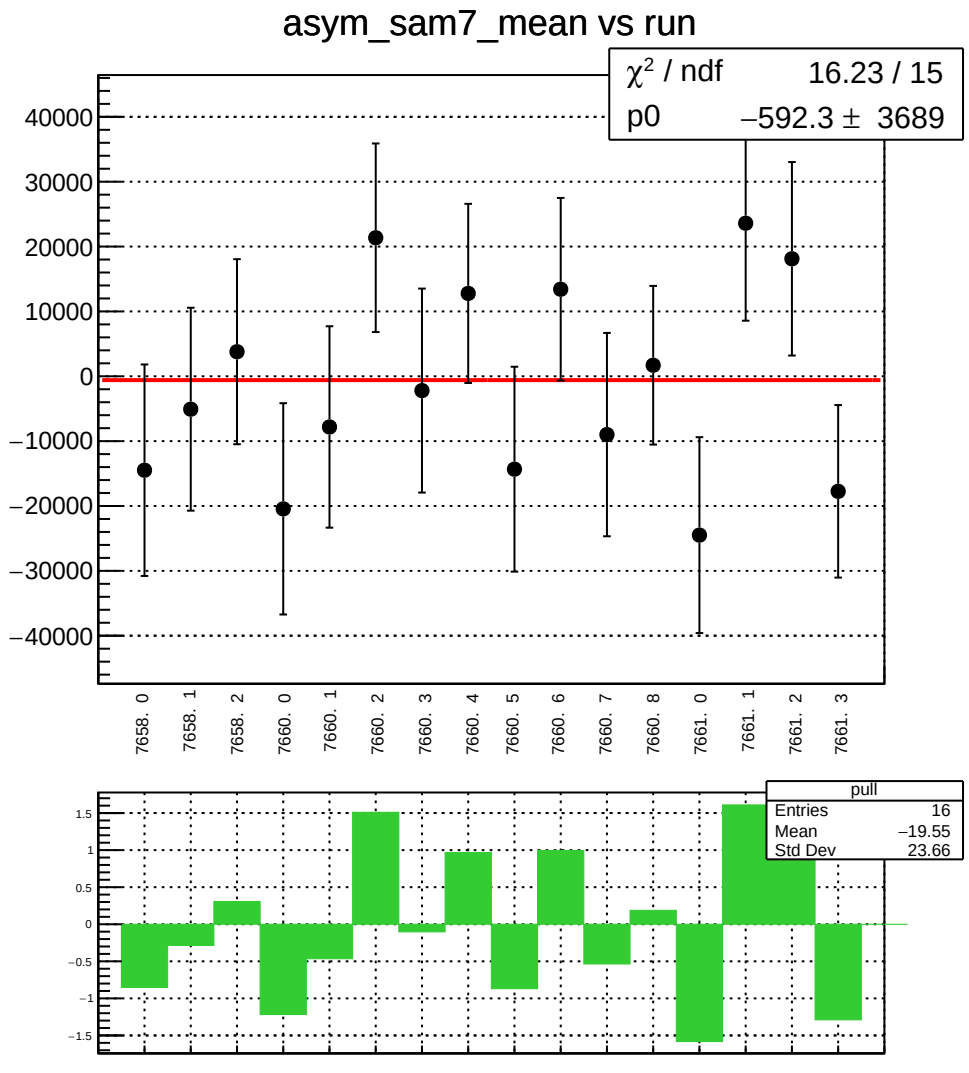

pull1D
Entries 16
Mean −0.02246
Std Dev 0.7238
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

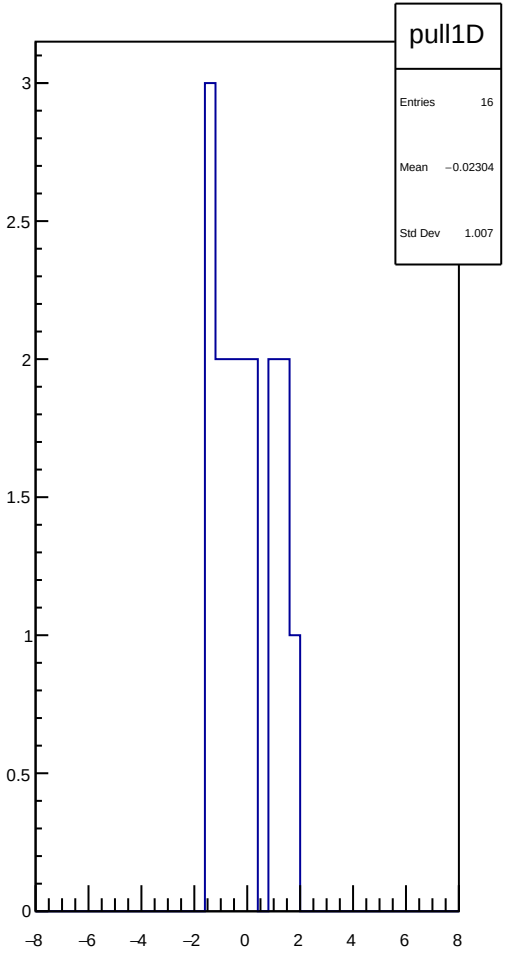

dit_asym_sam7_rms vs run
χ² / ndf 4183 / 15
p0 91.56 ± 0.1677
150
140
130
120
110
100
90
80
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

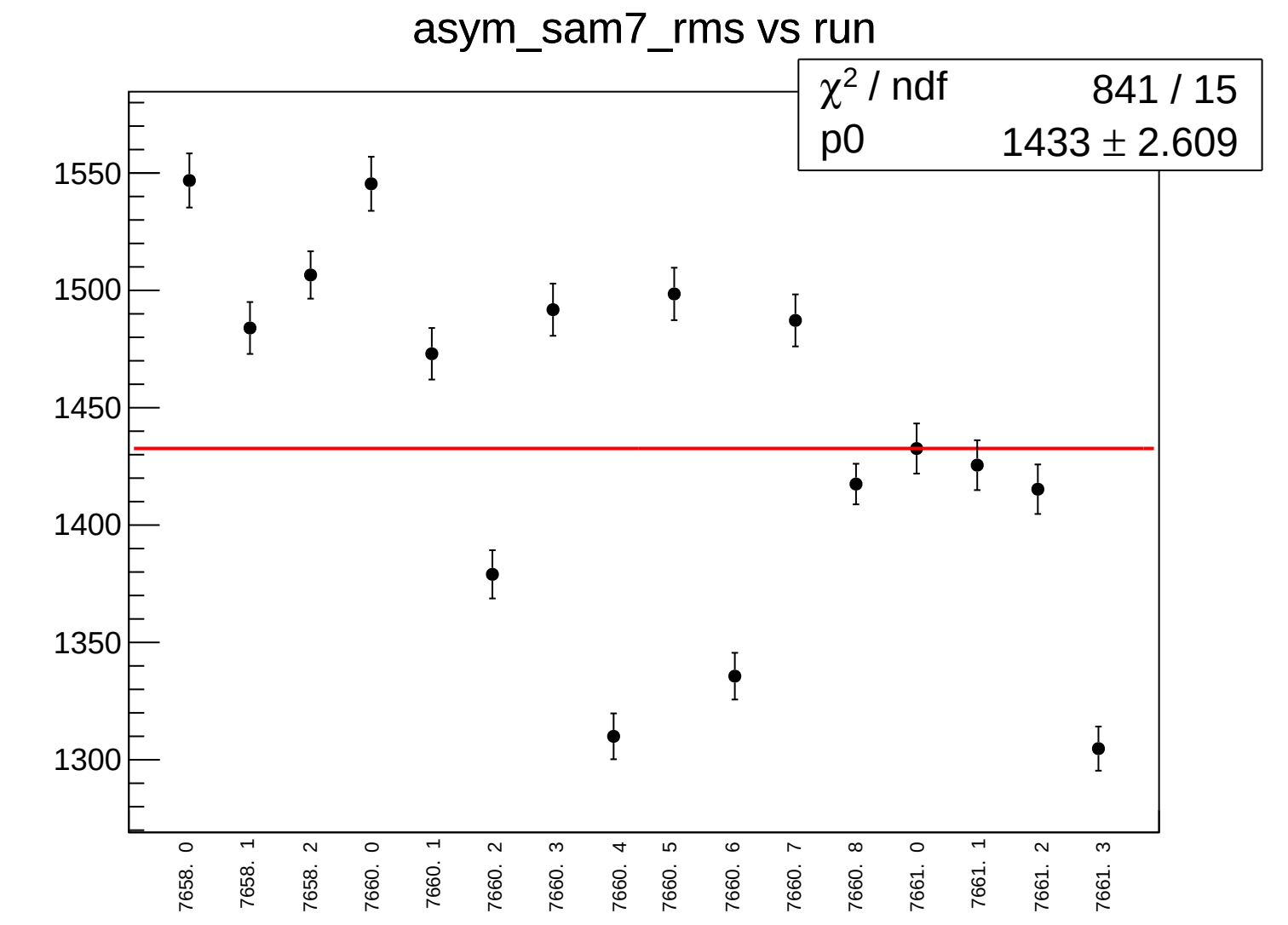

asym_sam7_correction_mean vs run
χ² / ndf 16.04 / 15
p0 630.8 ± 3657
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −30.2
Std Dev 35.02
1.5
1
0.5
0
−0.5
−1
−1.5

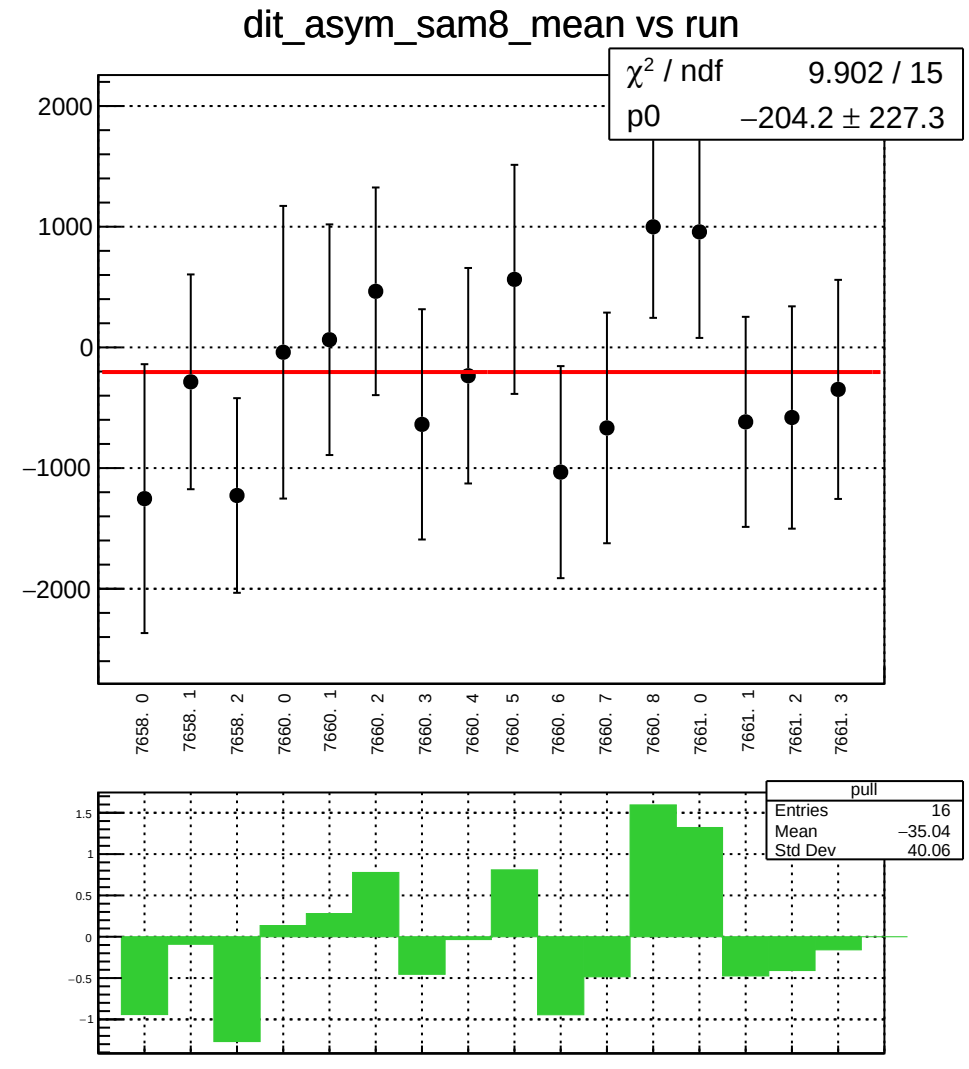

pull1D
Entries 16
Mean 0.01734
Std Dev 1.001
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

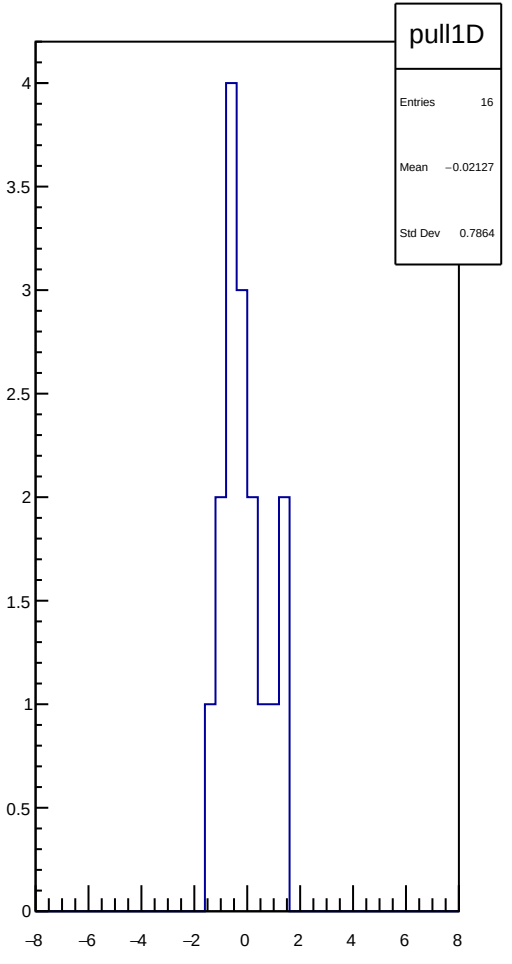

asym_sam7_correction_rms vs run
χ² / ndf 665.5 / 15
p0 1420 ± 2.586
1500
1450
1400
1350
1300
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

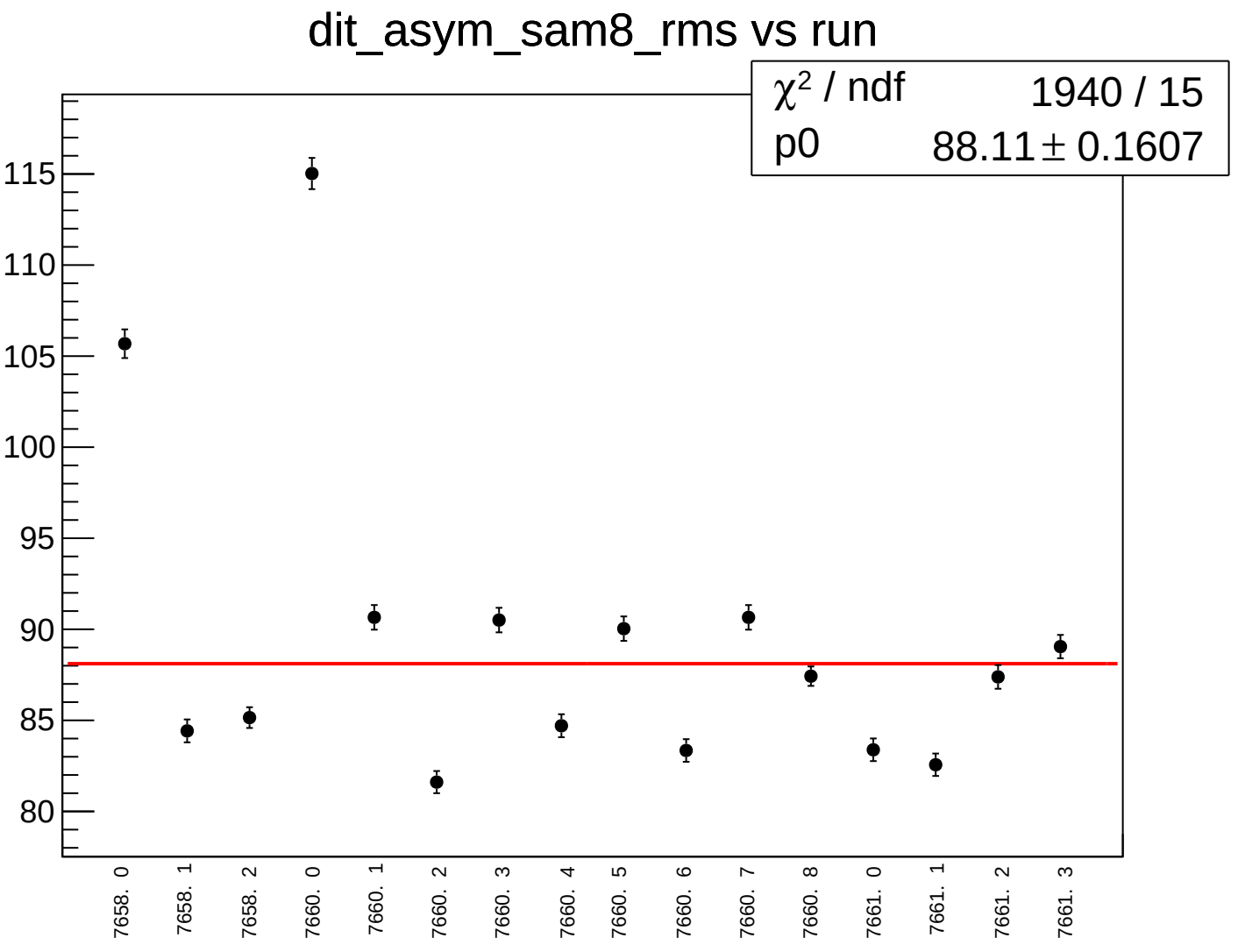

asym_sam7_mean vs run
χ² / ndf 16.23 / 15
p0 −592.3 ± 3689
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −19.55
Std Dev 23.66
1.5
1
0.5
0
−0.5
−1
−1.5

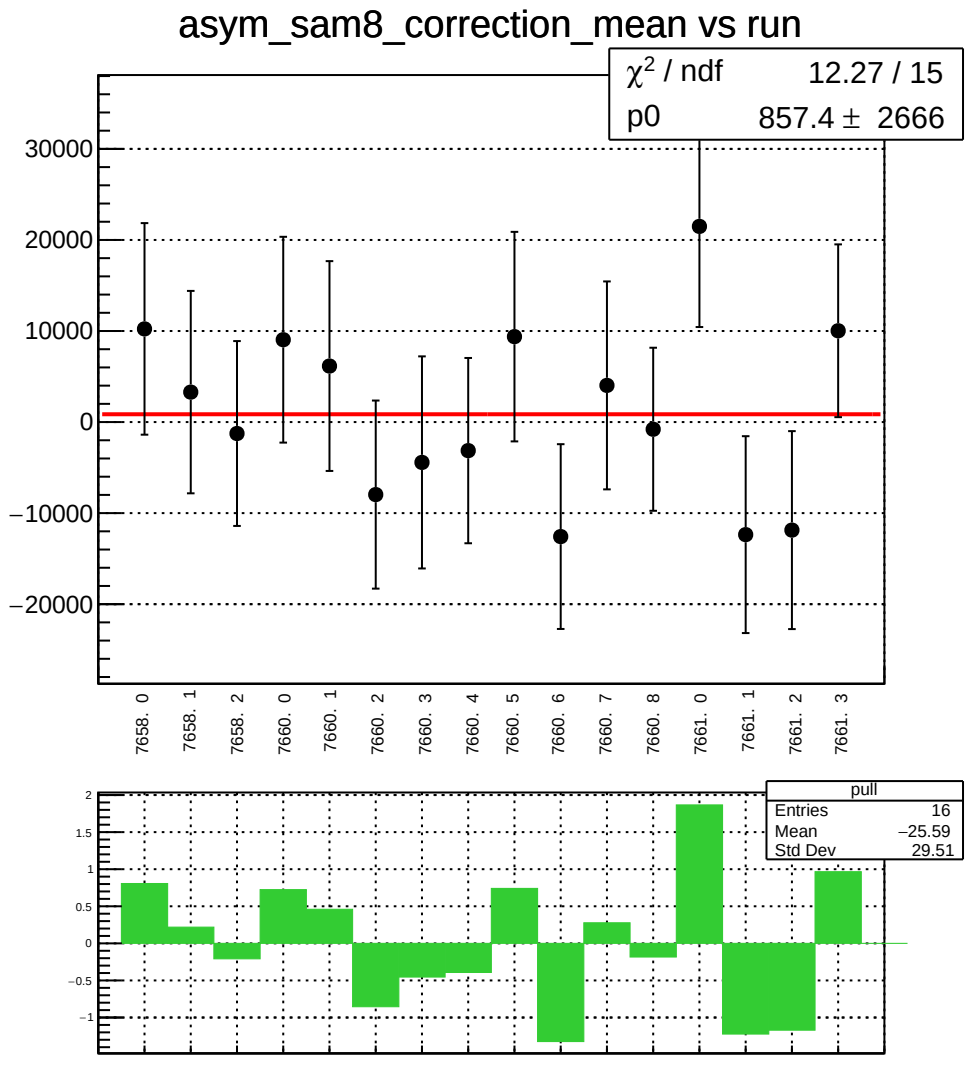

pull1D
Entries 16
Mean −0.02304
Std Dev 1.007
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

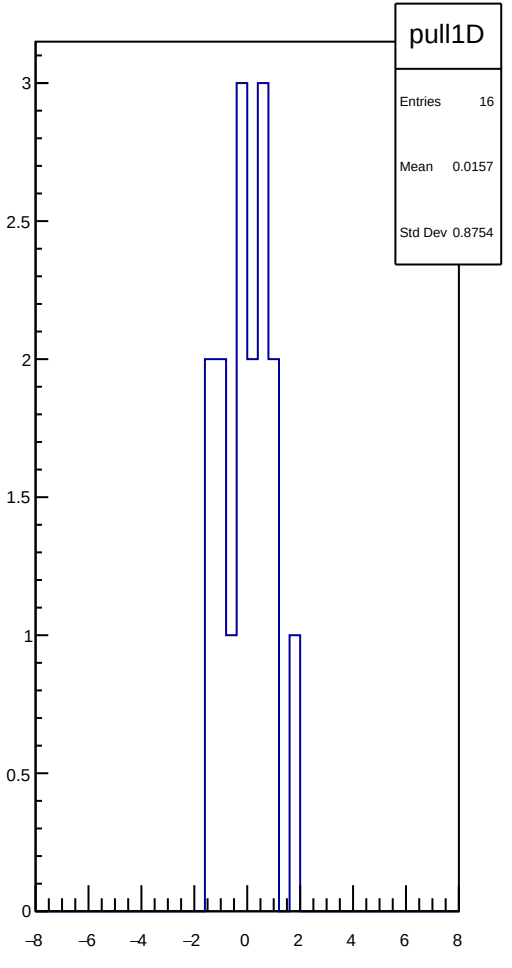

asym_sam7_rms vs run
χ² / ndf 841 / 15
p0 1433 ± 2.609
1550
1500
1450
1400
1350
1300
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

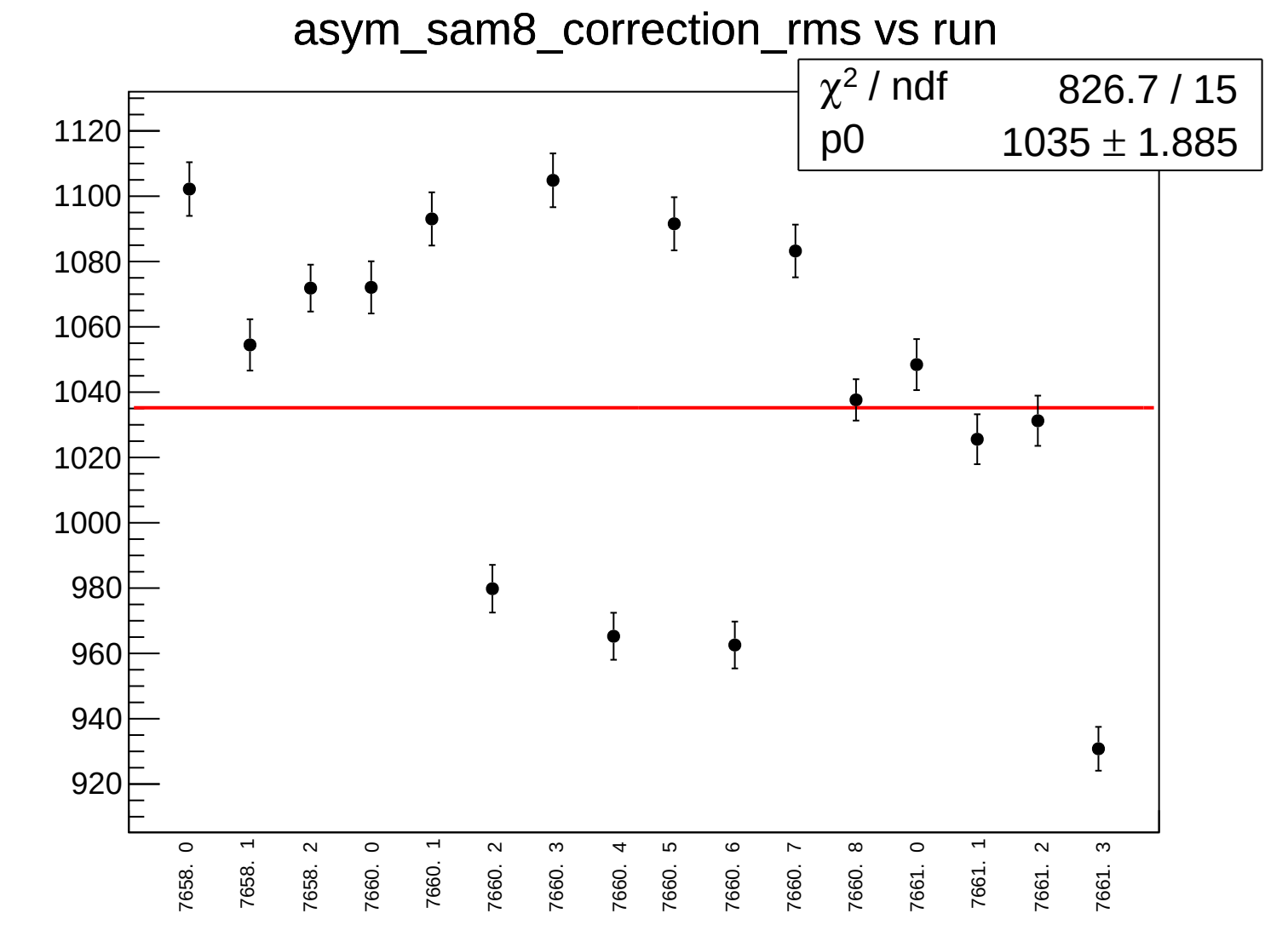

dit_asym_sam8_mean vs run
χ² / ndf 9.902 / 15
p0 −204.2 ± 227.3
2000
1000
0
−1000
−2000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −35.04
Std Dev 40.06
1.5
1
0.5
0
−0.5
−1

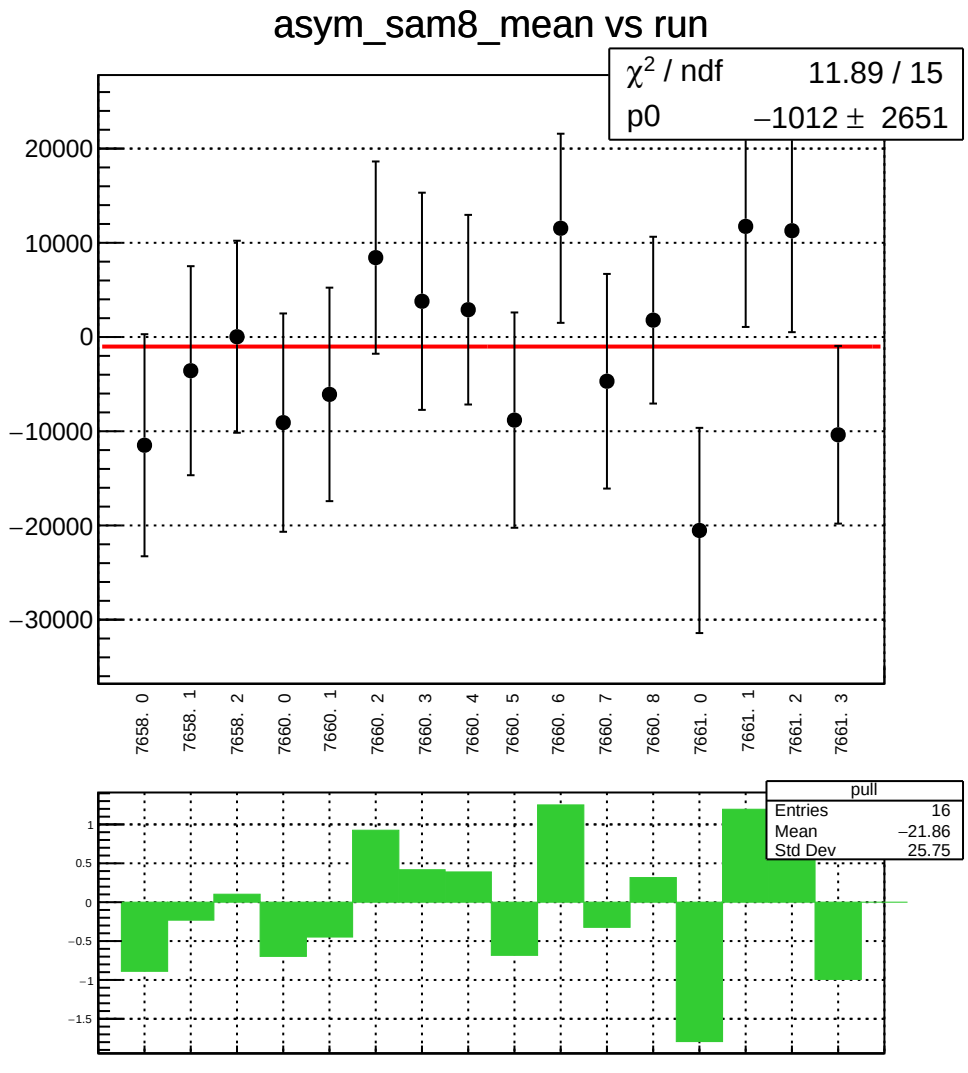

pull1D
Entries 16
Mean −0.02127
Std Dev 0.7864
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

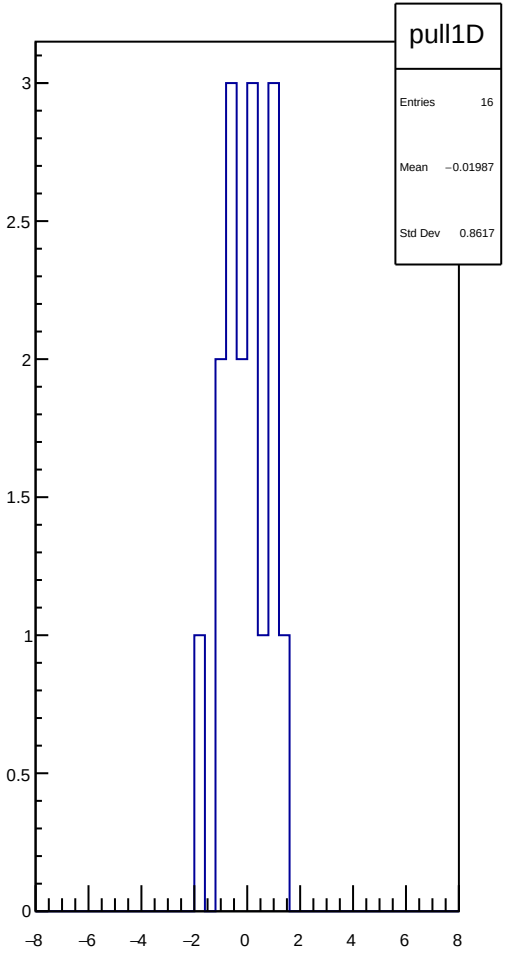

dit_asym_sam8_rms vs run
χ² / ndf 1940 / 15
p0 88.11 ± 0.1607
115
110
105
100
95
90
85
80
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

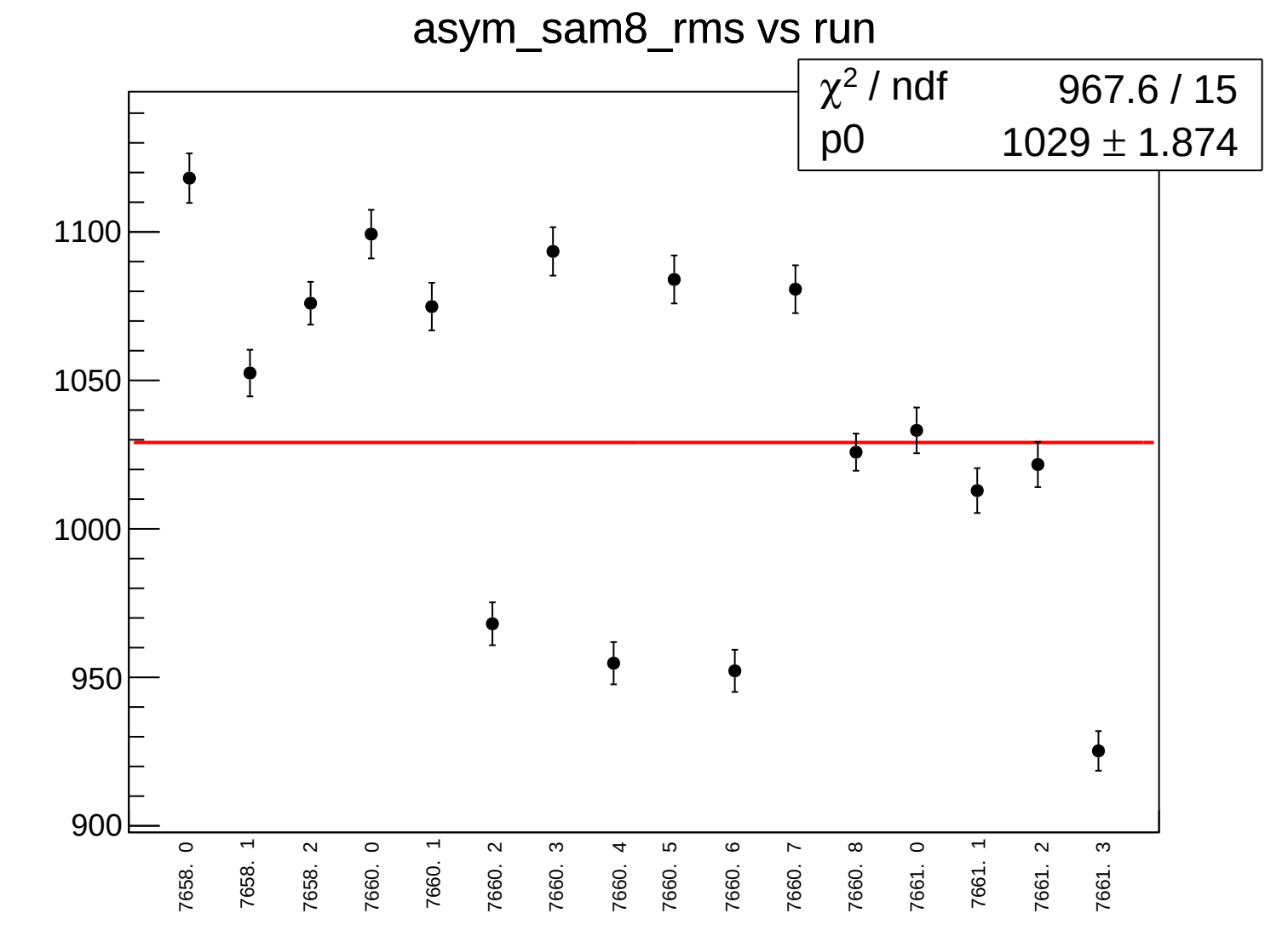

asym_sam8_correction_mean vs run
χ² / ndf 12.27 / 15
p0 857.4 ± 2666
30000
20000
10000
0
−10000
−20000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −25.59
Std Dev 29.51
2
1.5
1
0.5
0
−0.5
−1

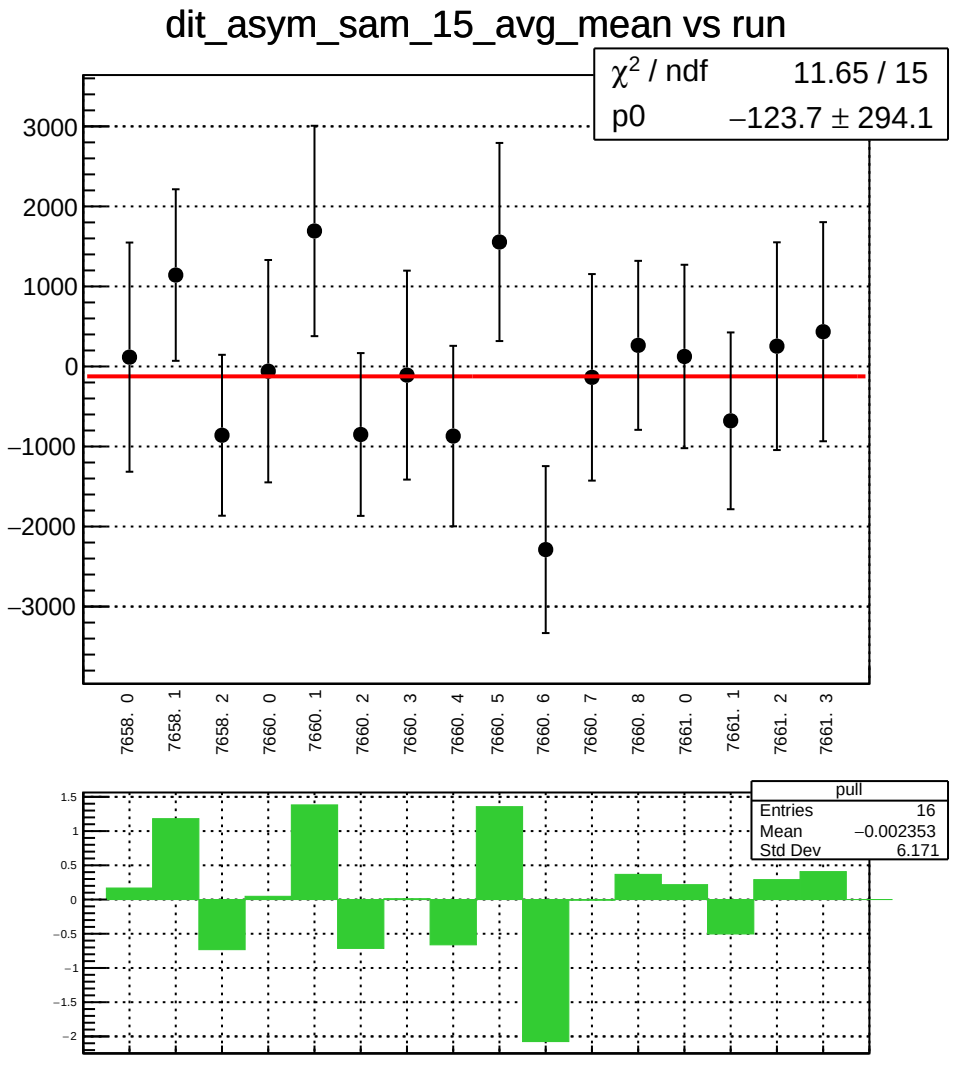

pull1D
Entries 16
Mean 0.0157
Std Dev 0.8754
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

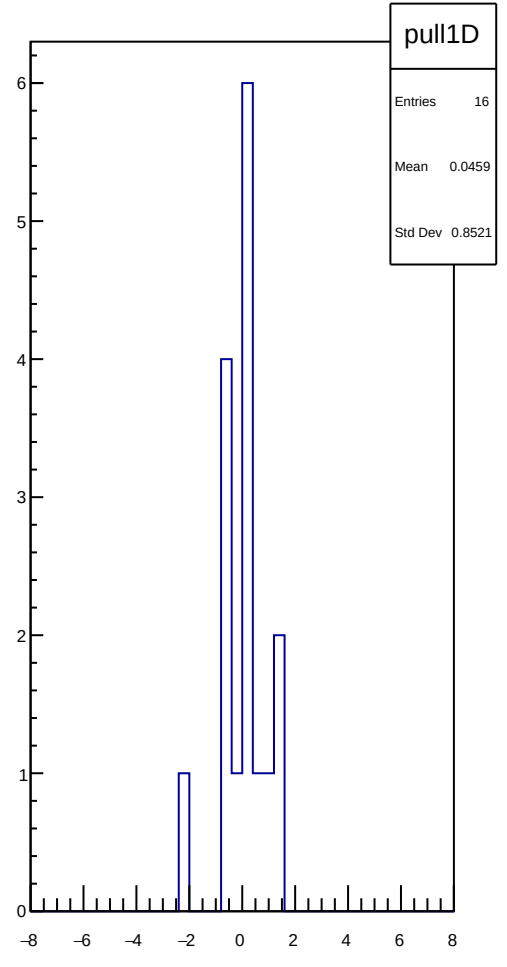

asym_sam8_correction_rms vs run
χ² / ndf 826.7 / 15
p0 1035 ± 1.885
1120
1100
1080
1060
1040
1020
1000
980
960
940
920
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

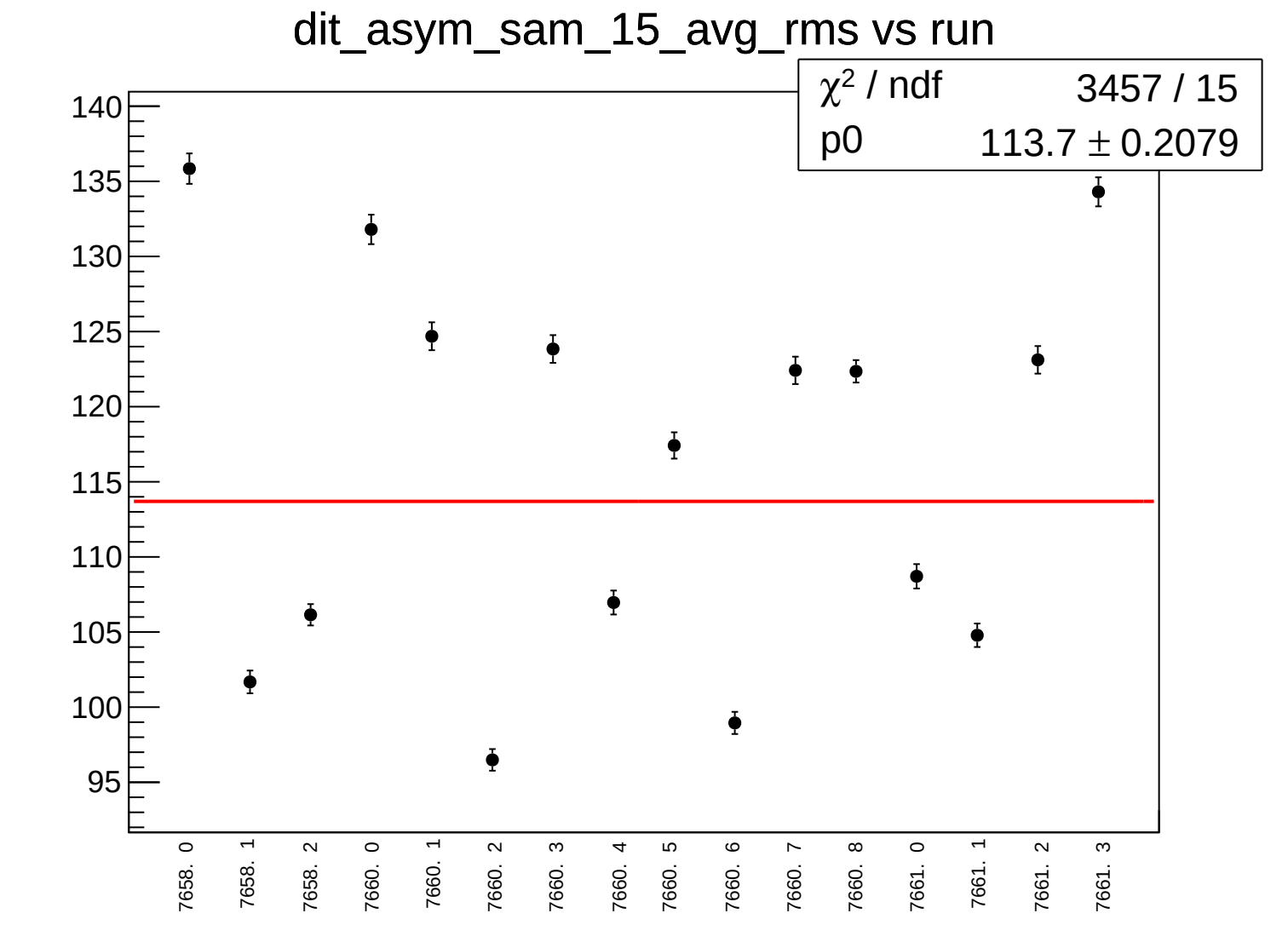

asym_sam8_mean vs run
χ² / ndf 11.89 / 15
p0 −1012 ± 2651
20000
10000
0
−10000
−20000
−30000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −21.86
Std Dev 25.75
1
0.5
0
−0.5
−1
−1.5

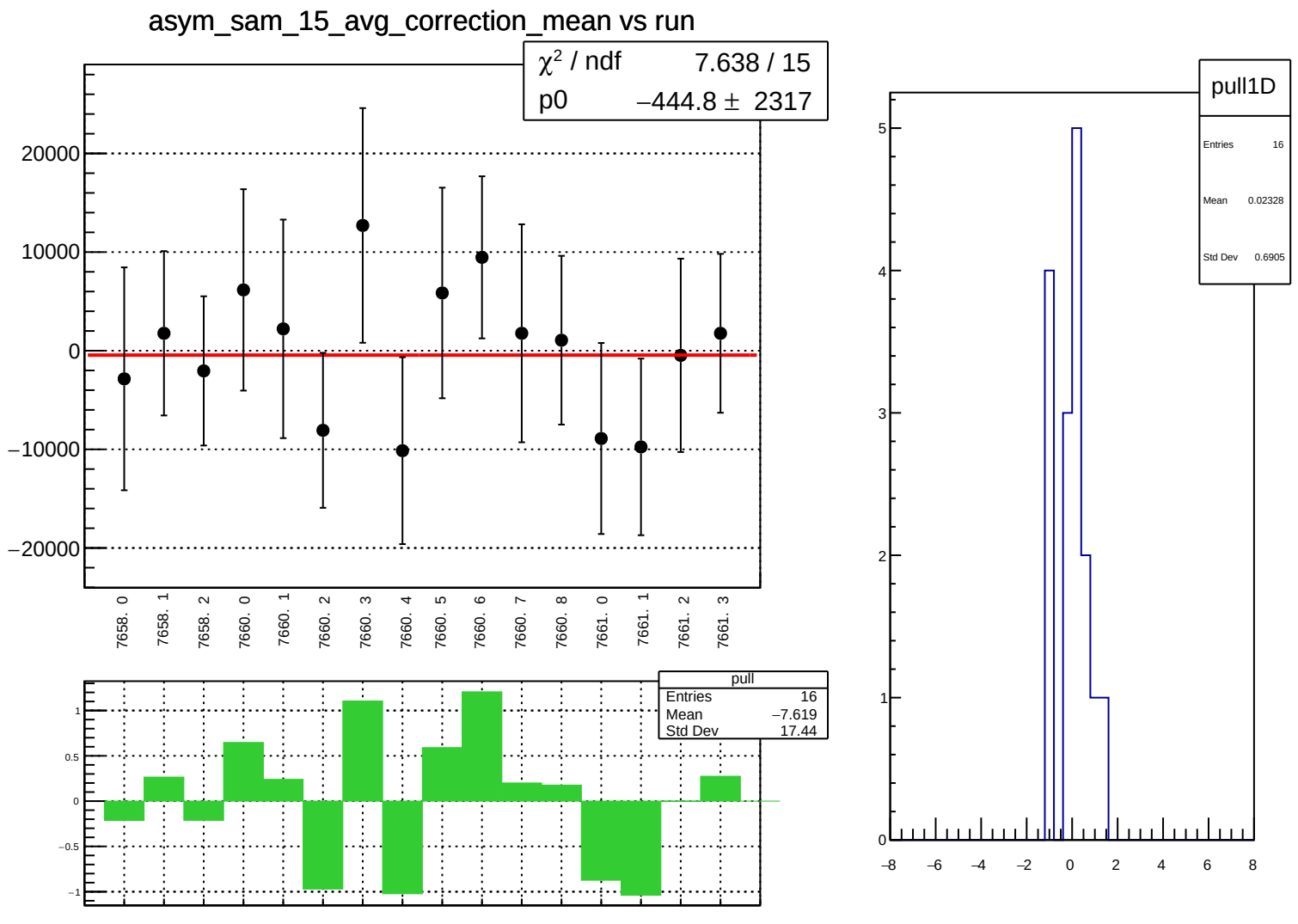

pull1D
Entries 16
Mean −0.01987
Std Dev 0.8617
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

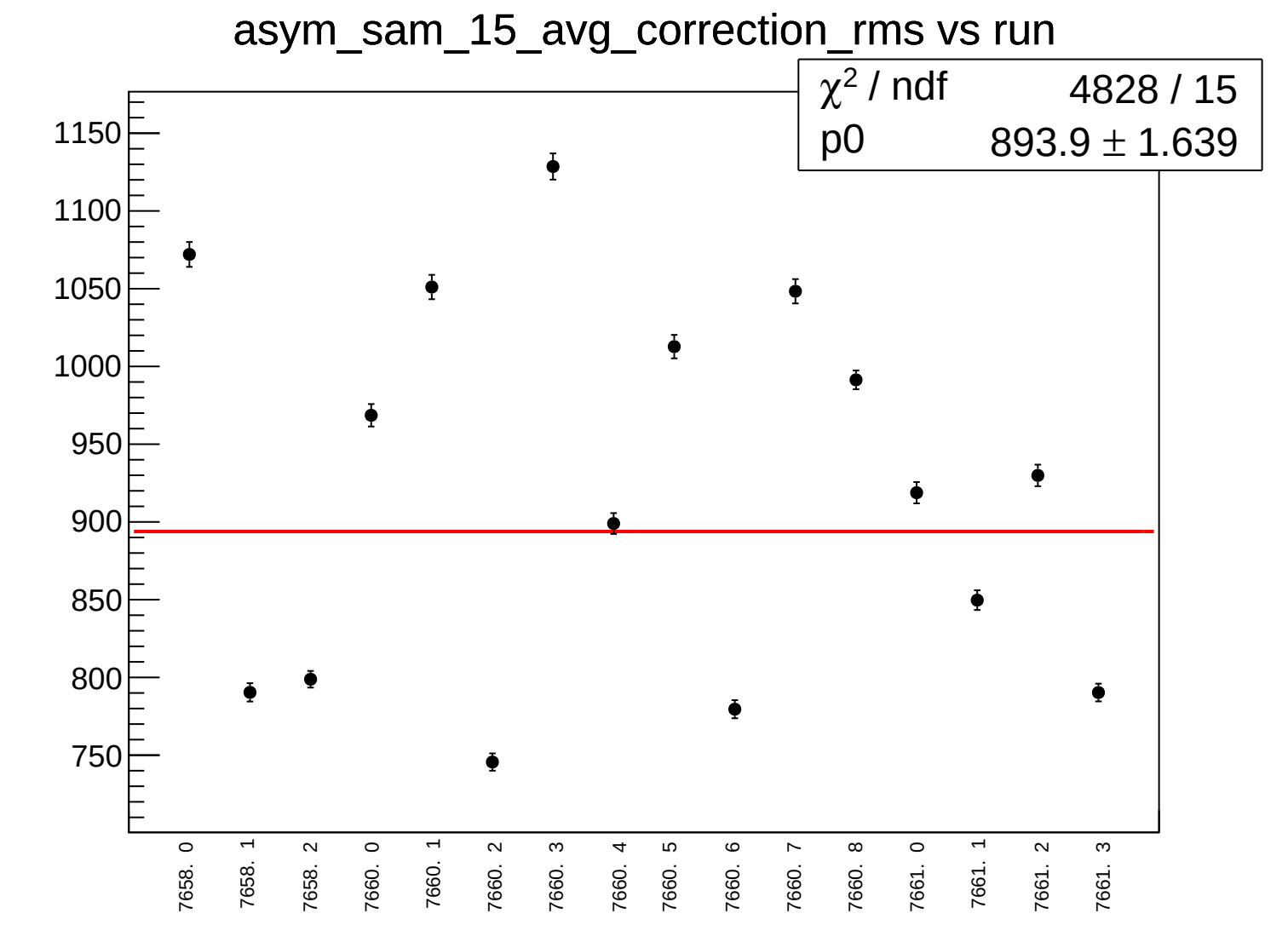

asym_sam8_rms vs run
χ² / ndf 967.6 / 15
p0 1029 ± 1.874
1100
1050
1000
950
900
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

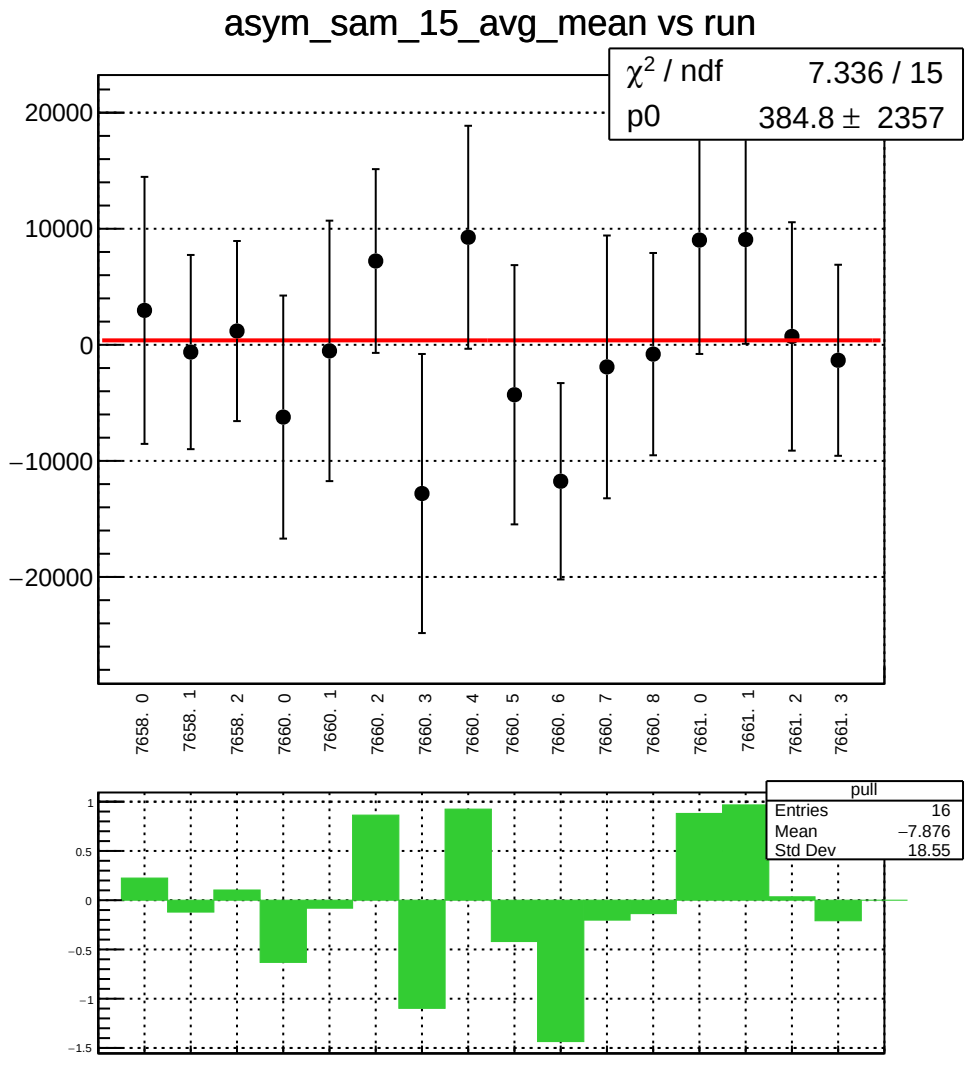

dit_asym_sam_15_avg_mean vs run
χ² / ndf 11.65 / 15
p0 −123.7 ± 294.1
3000
2000
1000
0
−1000
−2000
−3000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −0.002353
Std Dev 6.171
1.5
1
0.5
0
−0.5
−1
−1.5
−2

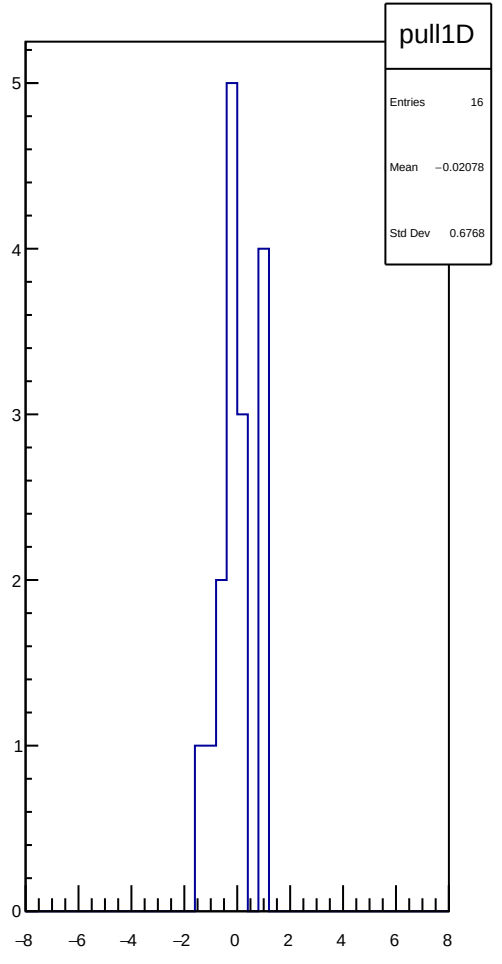

pull1D
Entries 16
Mean 0.0459
Std Dev 0.8521
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

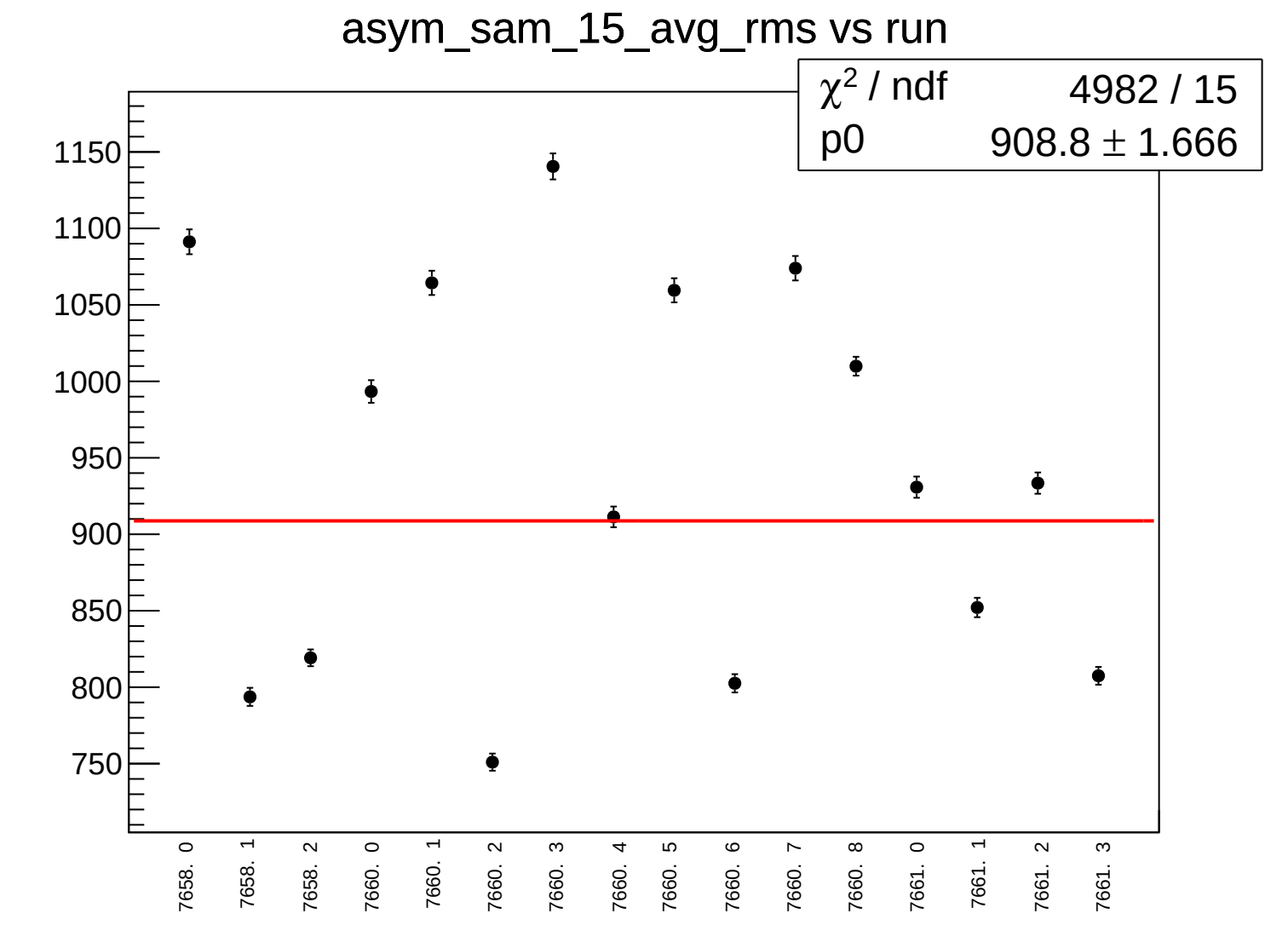

dit_asym_sam_15_avg_rms vs run
χ² / ndf 3457 / 15
p0 113.7 ± 0.2079
140
135
130
125
120
115
110
105
100
95
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

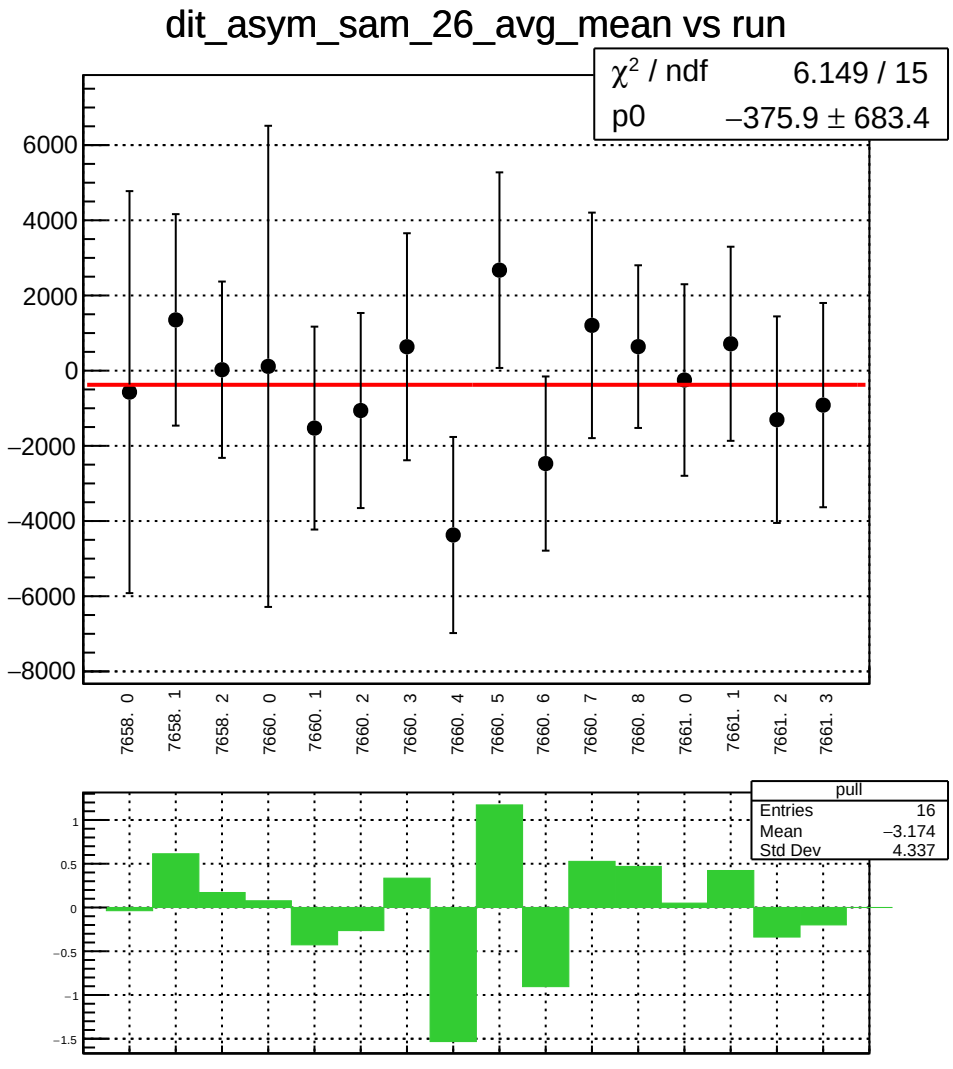

asym_sam_15_avg_correction_mean vs run
χ² / ndf 7.638 / 15
p0 −444.8 ± 2317
20000
10000
0
−10000
−20000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −7.619
Std Dev 17.44
1
0.5
0
−0.5
−1
pull1D
Entries 16
Mean 0.02328
Std Dev 0.6905
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

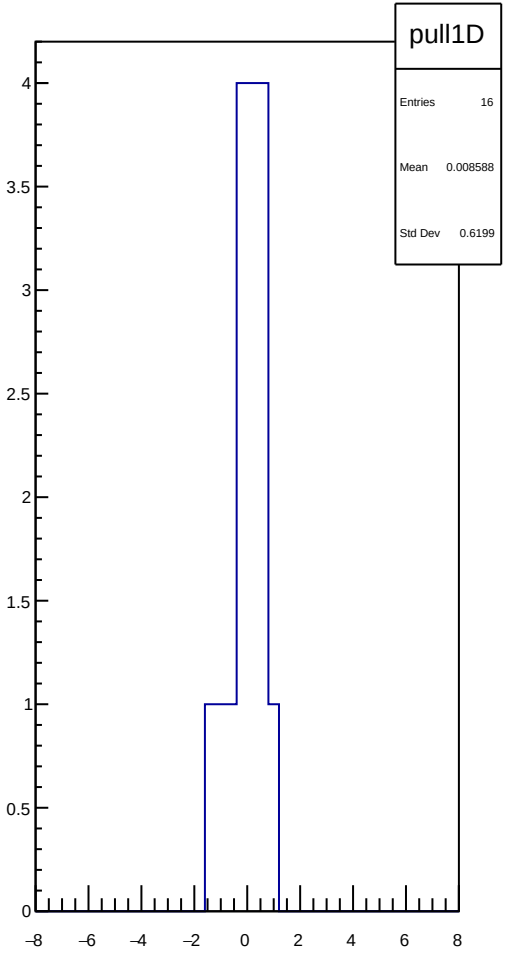

asym_sam_15_avg_correction_rms vs run
χ² / ndf 4828 / 15
p0 893.9 ± 1.639
1150
1100
1050
1000
950
900
850
800
750
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

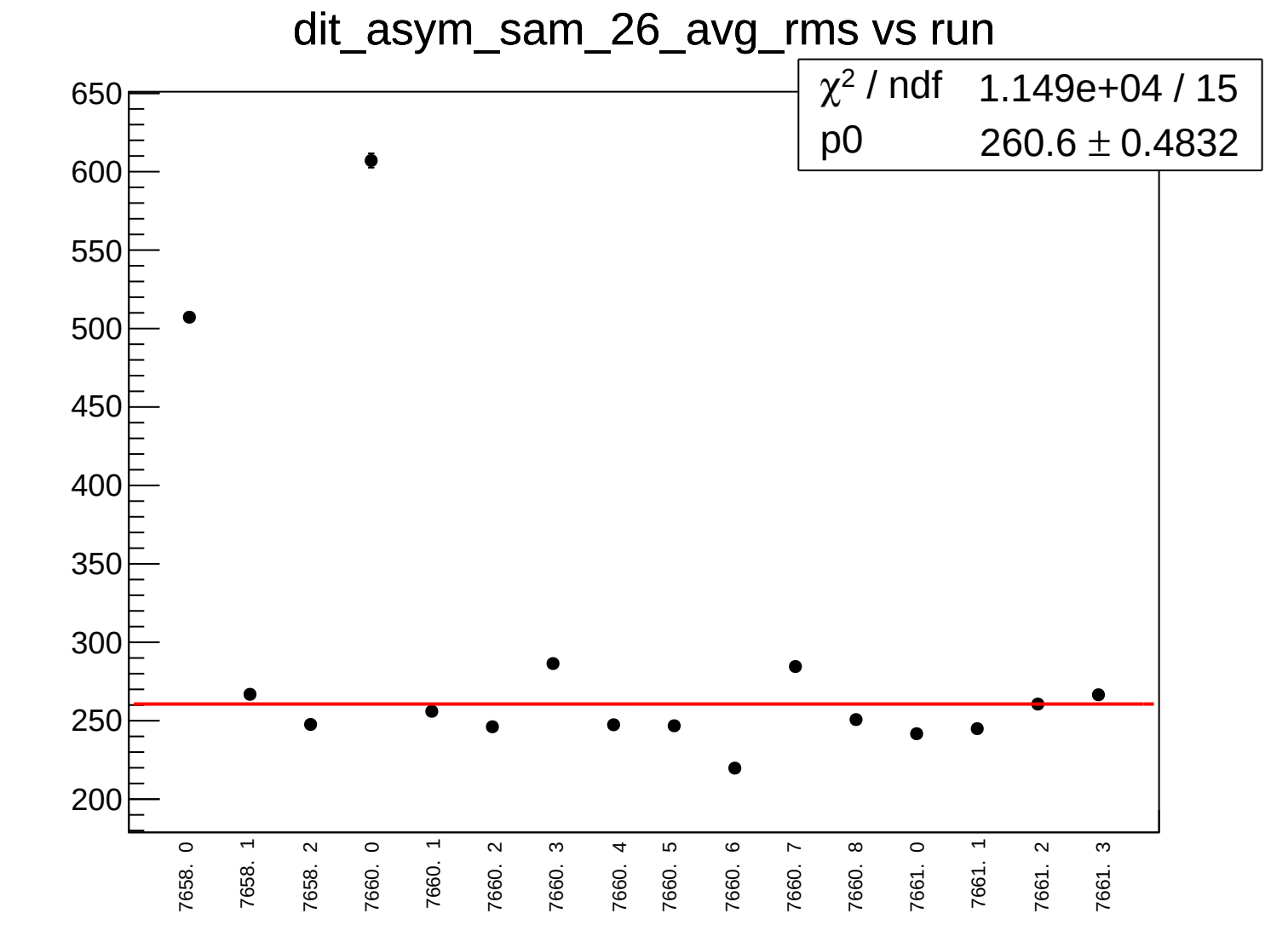

asym_sam_15_avg_mean vs run
χ² / ndf 7.336 / 15
p0 384.8 ± 2357
20000
10000
0
−10000
−20000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −7.876
Std Dev 18.55
1
0.5
0
−0.5
−1
−1.5

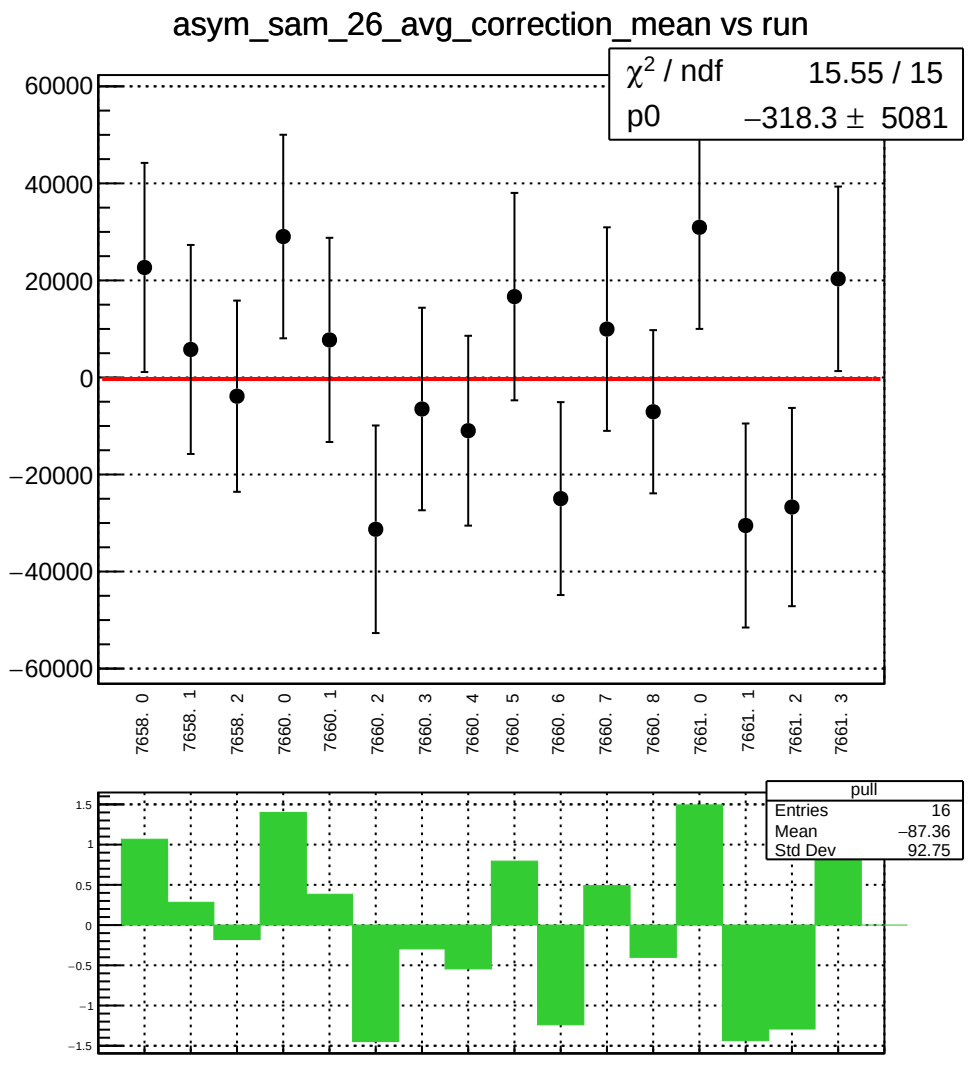

pull1D
Entries 16
Mean −0.02078
Std Dev 0.6768
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

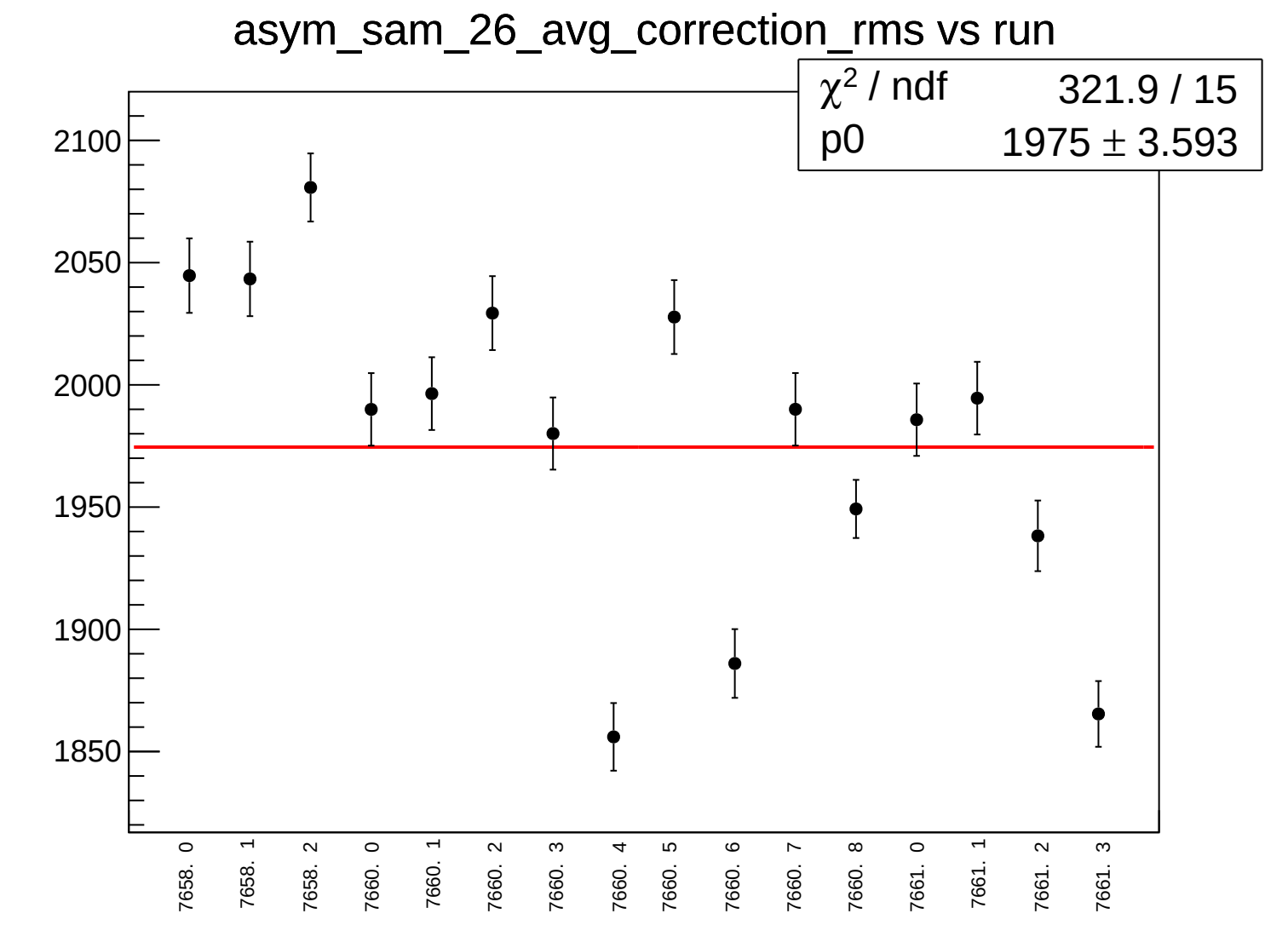

asym_sam_15_avg_rms vs run
χ² / ndf 4982 / 15
p0 908.8 ± 1.666
1150
1100
1050
1000
950
900
850
800
750
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

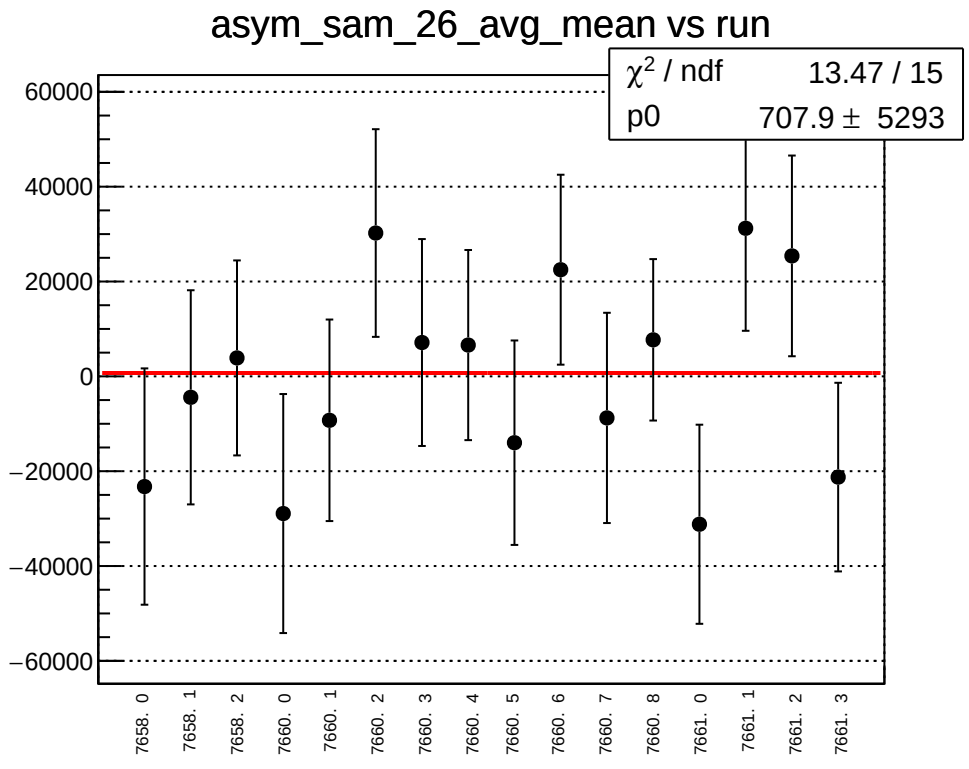

dit_asym_sam_26_avg_mean vs run
χ² / ndf 6.149 / 15
p0 −375.9 ± 683.4
6000
4000
2000
0
−2000
−4000
−6000
−8000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −3.174
Std Dev 4.337
1
0.5
0
−0.5
−1
−1.5

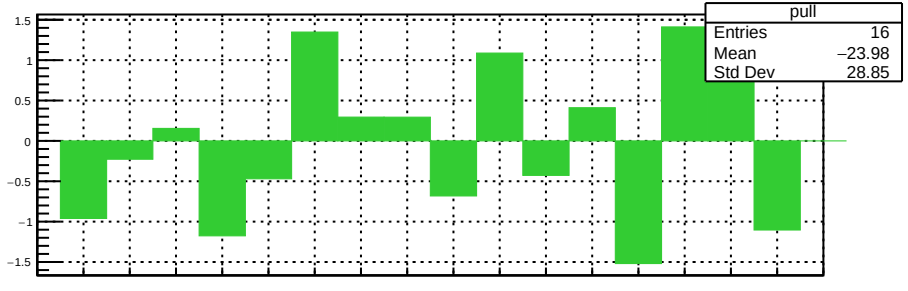

pull1D
Entries 16
Mean 0.008588
Std Dev 0.6199
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

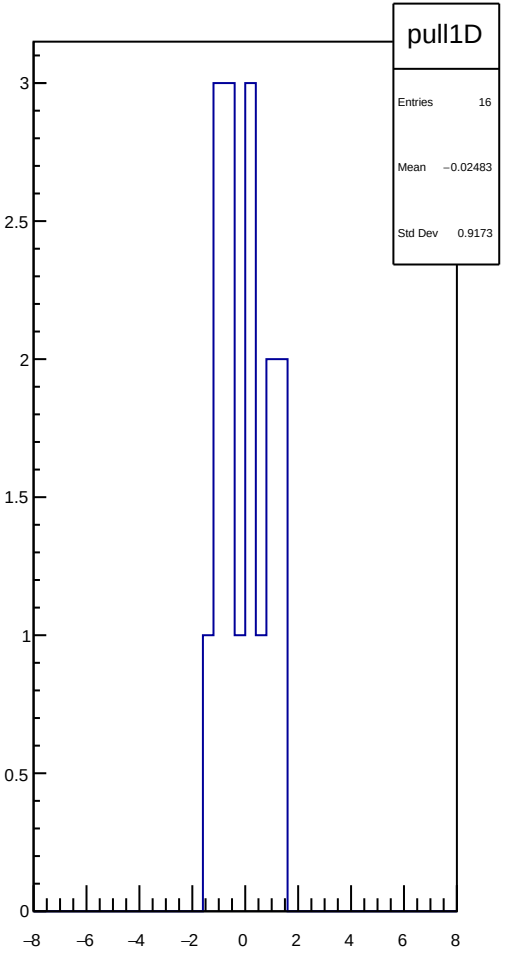

dit_asym_sam_26_avg_rms vs run
χ² / ndf 1.149e+04 / 15
p0 260.6 ± 0.4832
650
600
550
500
450
400
350
300
250
200
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

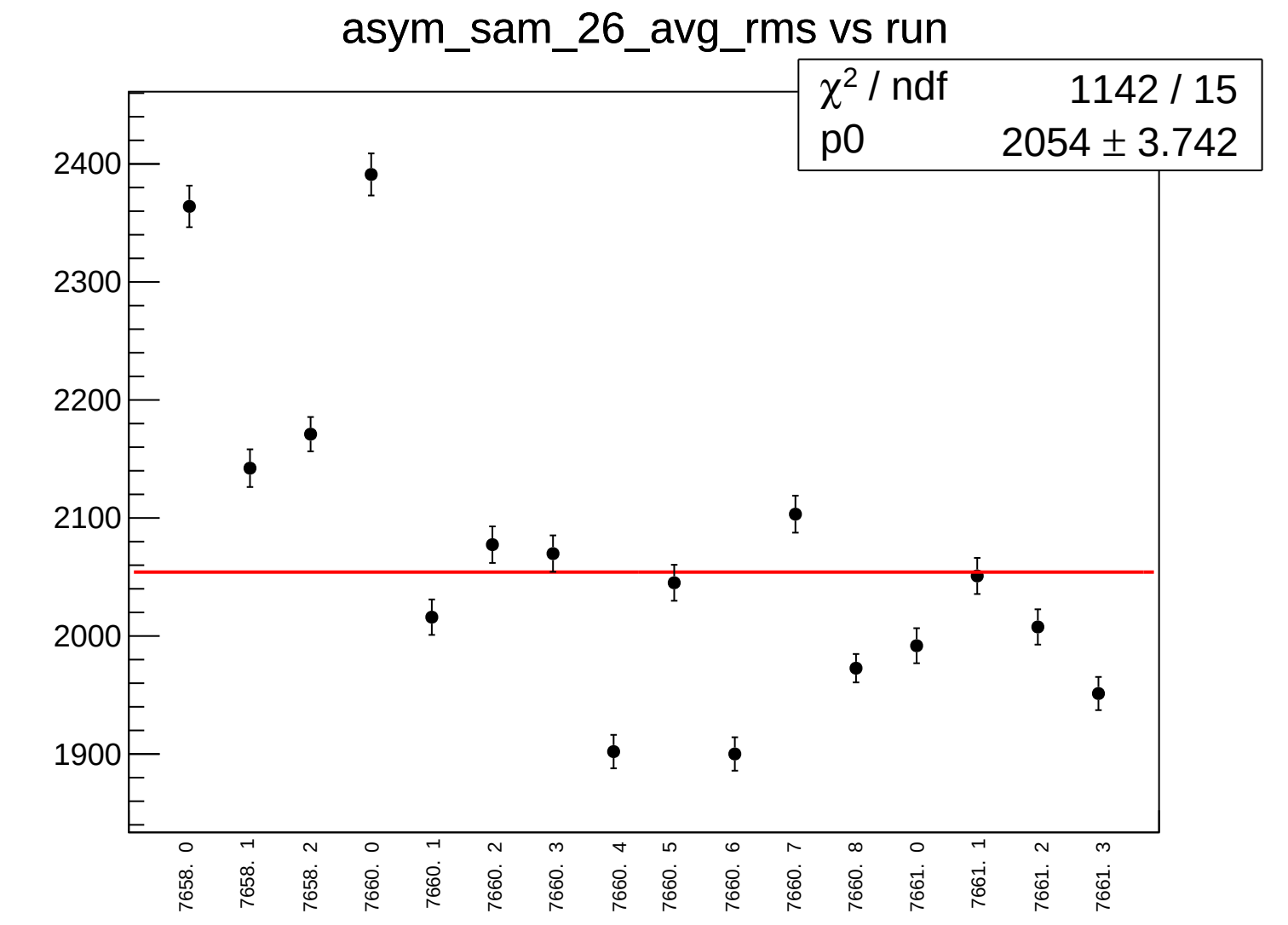

asym_sam_26_avg_correction_mean vs run
χ² / ndf 15.55 / 15
p0 −318.3 ± 5081
60000
40000
20000
0
−20000
−40000
−60000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −87.36
Std Dev 92.75
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 16
Mean 0.009975
Std Dev 0.9856
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

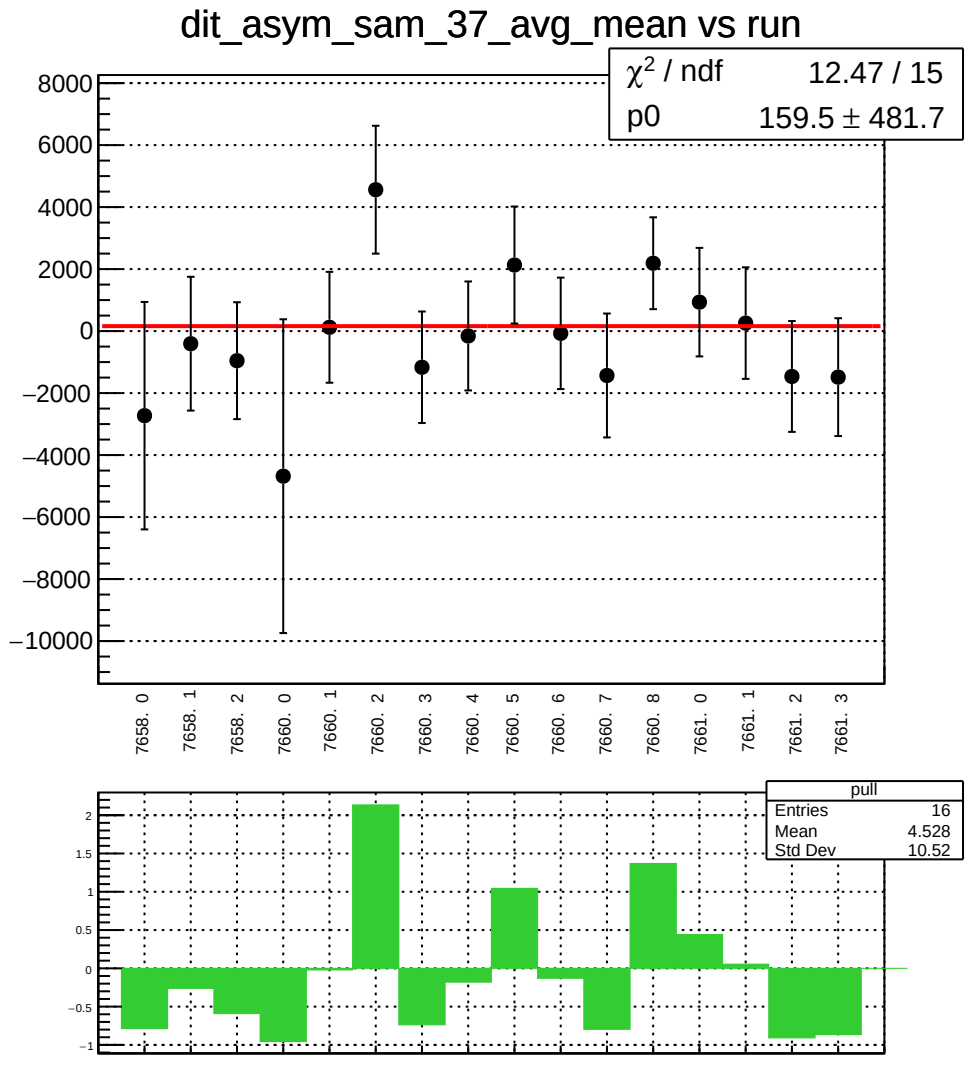

asym_sam_26_avg_correction_rms vs run
χ² / ndf 321.9 / 15
p0 1975 ± 3.593
2100
2050
2000
1950
1900
1850
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

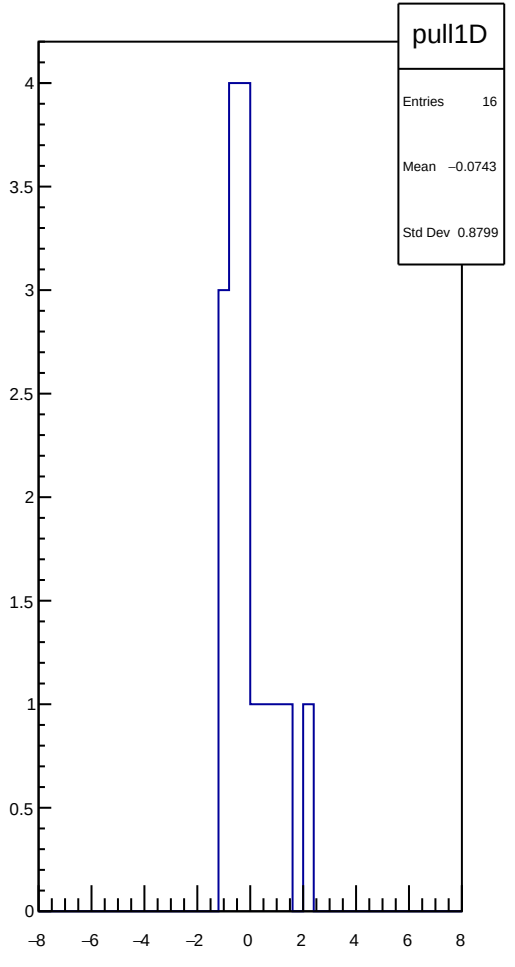

asym_sam_26_avg_mean vs run
χ² / ndf 13.47 / 15
p0 707.9 ± 5293
60000
40000
20000
0
−20000
−40000
−60000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

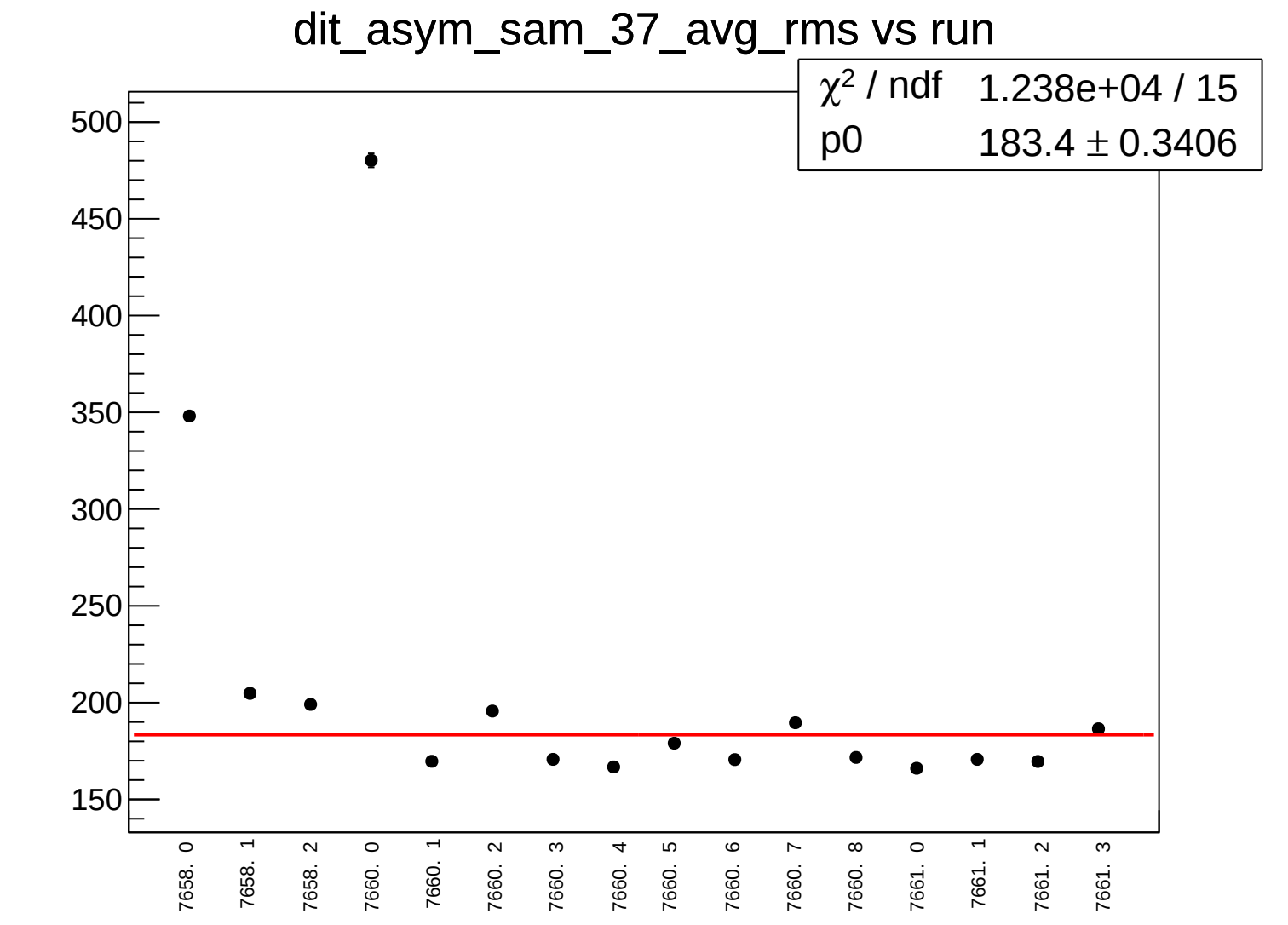

pull
Entries 16
Mean −23.98
Std Dev 28.85
1.5
1
0.5
0
−0.5
−1
−1.5

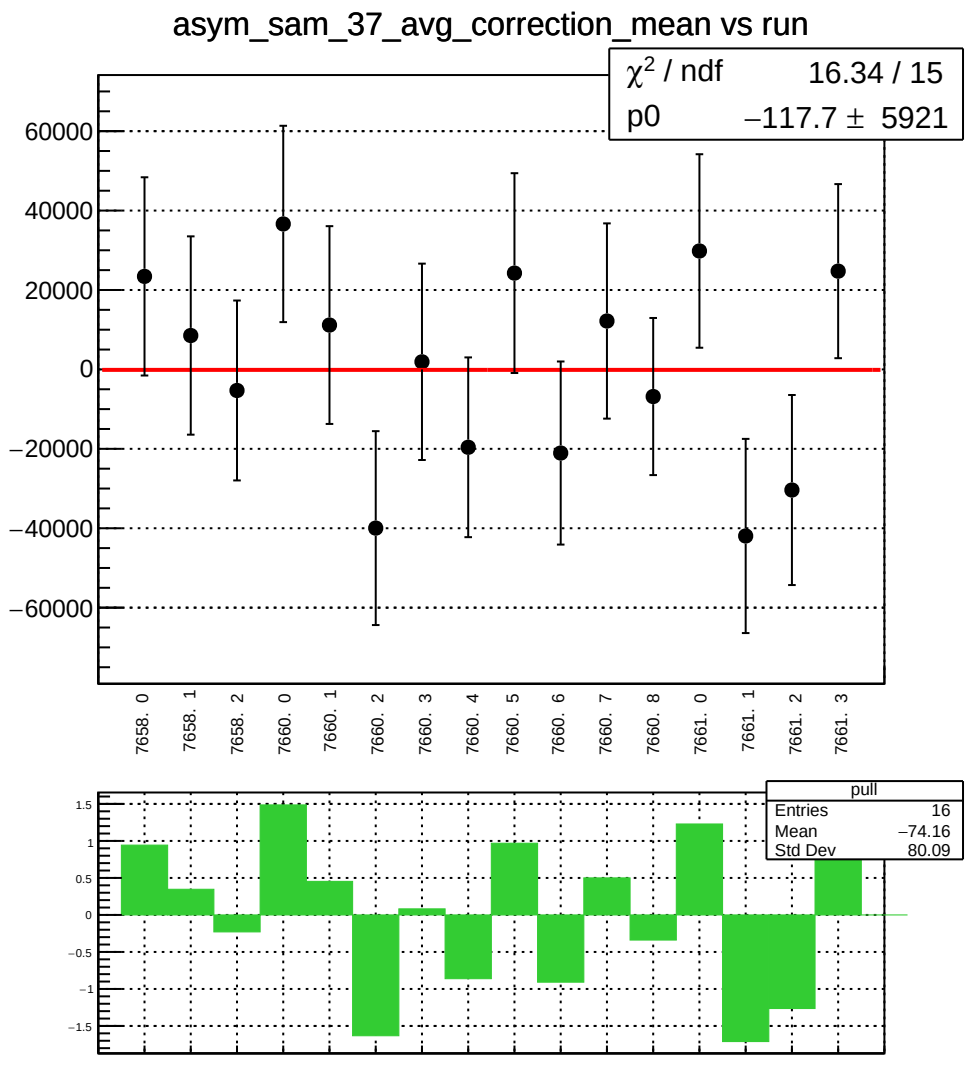

pull1D
Entries 16
Mean −0.02483
Std Dev 0.9173
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

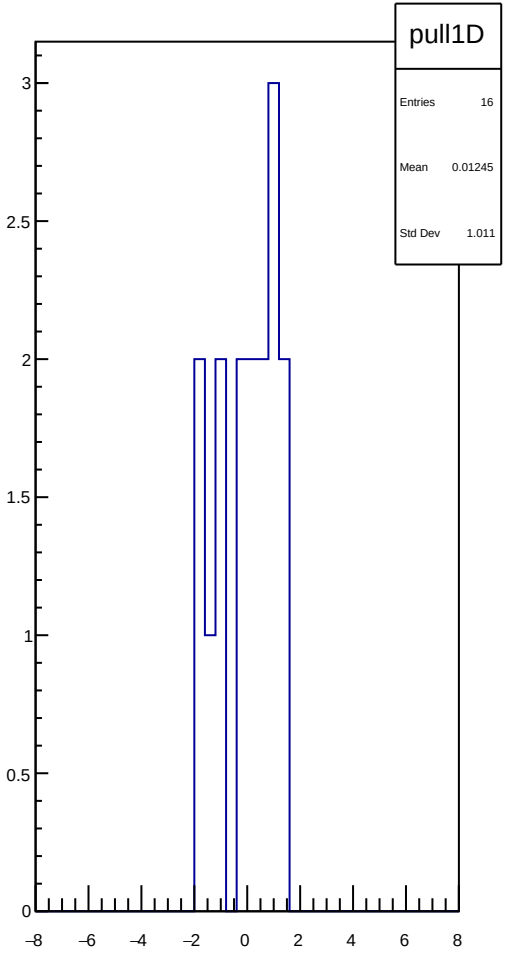

asym_sam_26_avg_rms vs run
χ² / ndf 1142 / 15
p0 2054 ± 3.742
2400
2300
2200
2100
2000
1900
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

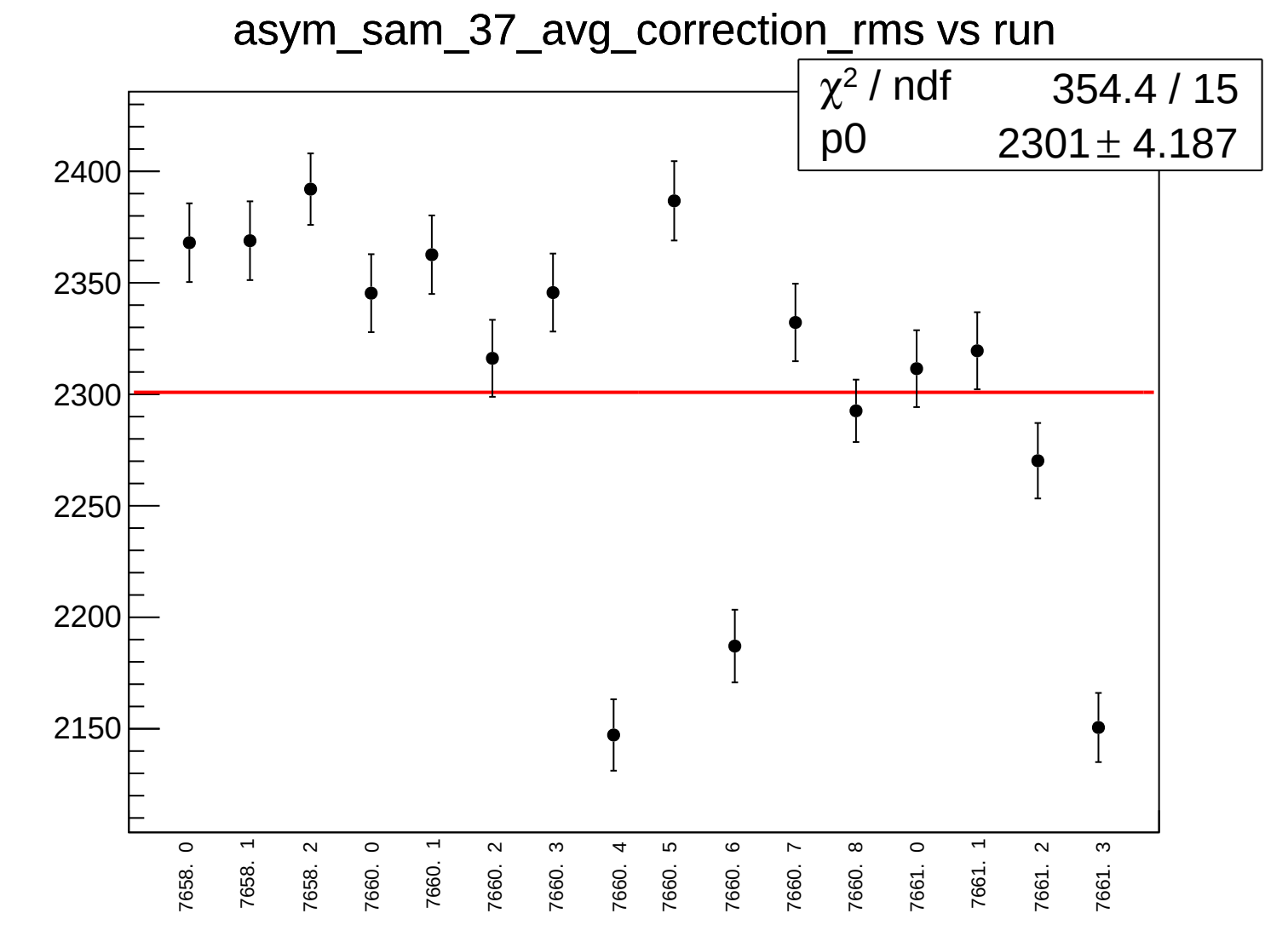

dit_asym_sam_37_avg_mean vs run
χ² / ndf 12.47 / 15
p0 159.5 ± 481.7
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 4.528
Std Dev 10.52
2
1.5
1
0.5
0
−0.5
−1

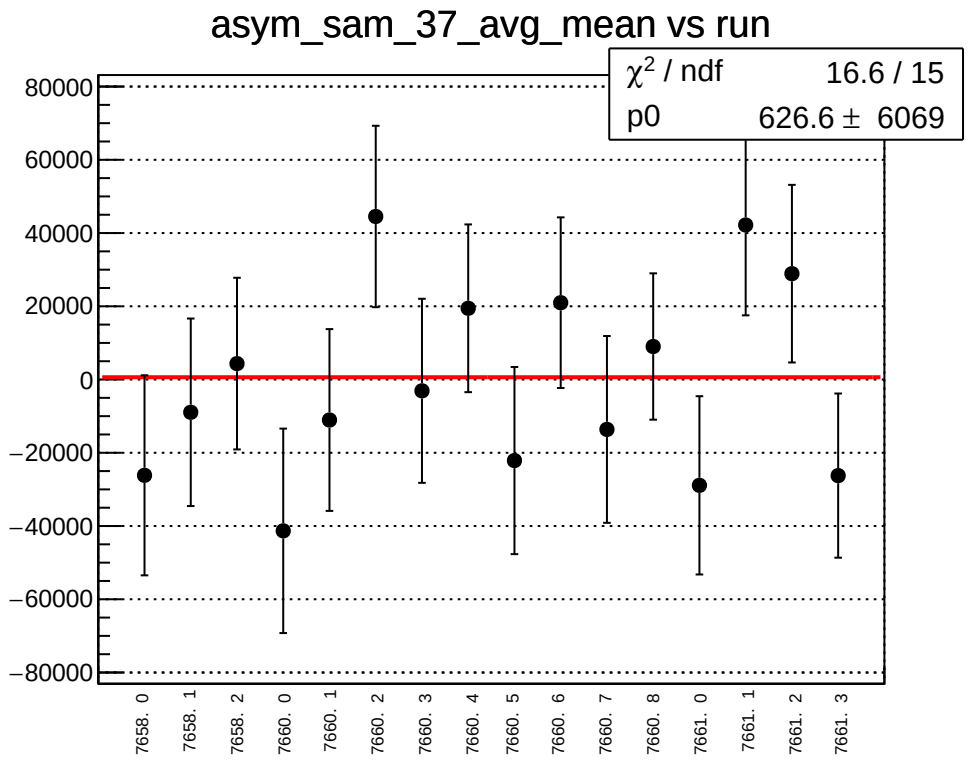

pull1D
Entries 16
Mean −0.0743
Std Dev 0.8799
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

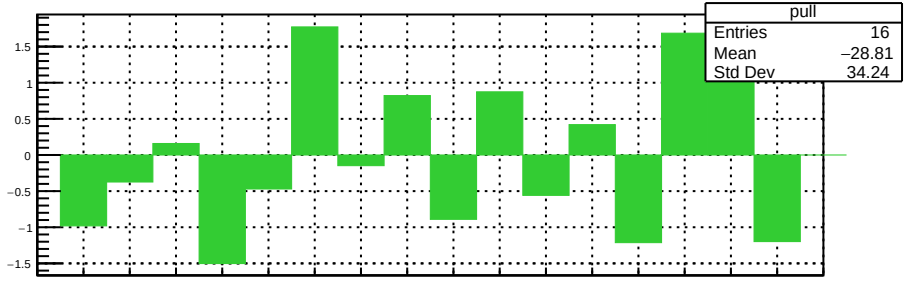

dit_asym_sam_37_avg_rms vs run
χ² / ndf 1.238e+04 / 15
p0 183.4 ± 0.3406
500
450
400
350
300
250
200
150
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

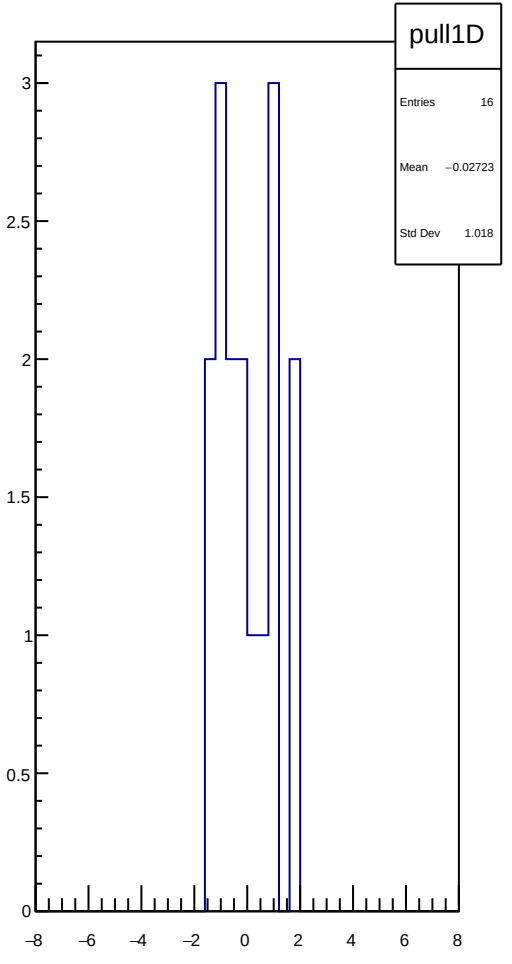

asym_sam_37_avg_correction_mean vs run
χ² / ndf 16.34 / 15
p0 −117.7 ± 5921
60000
40000
20000
0
−20000
−40000
−60000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −74.16
Std Dev 80.09
1.5
1
0.5
0
−0.5
−1
−1.5

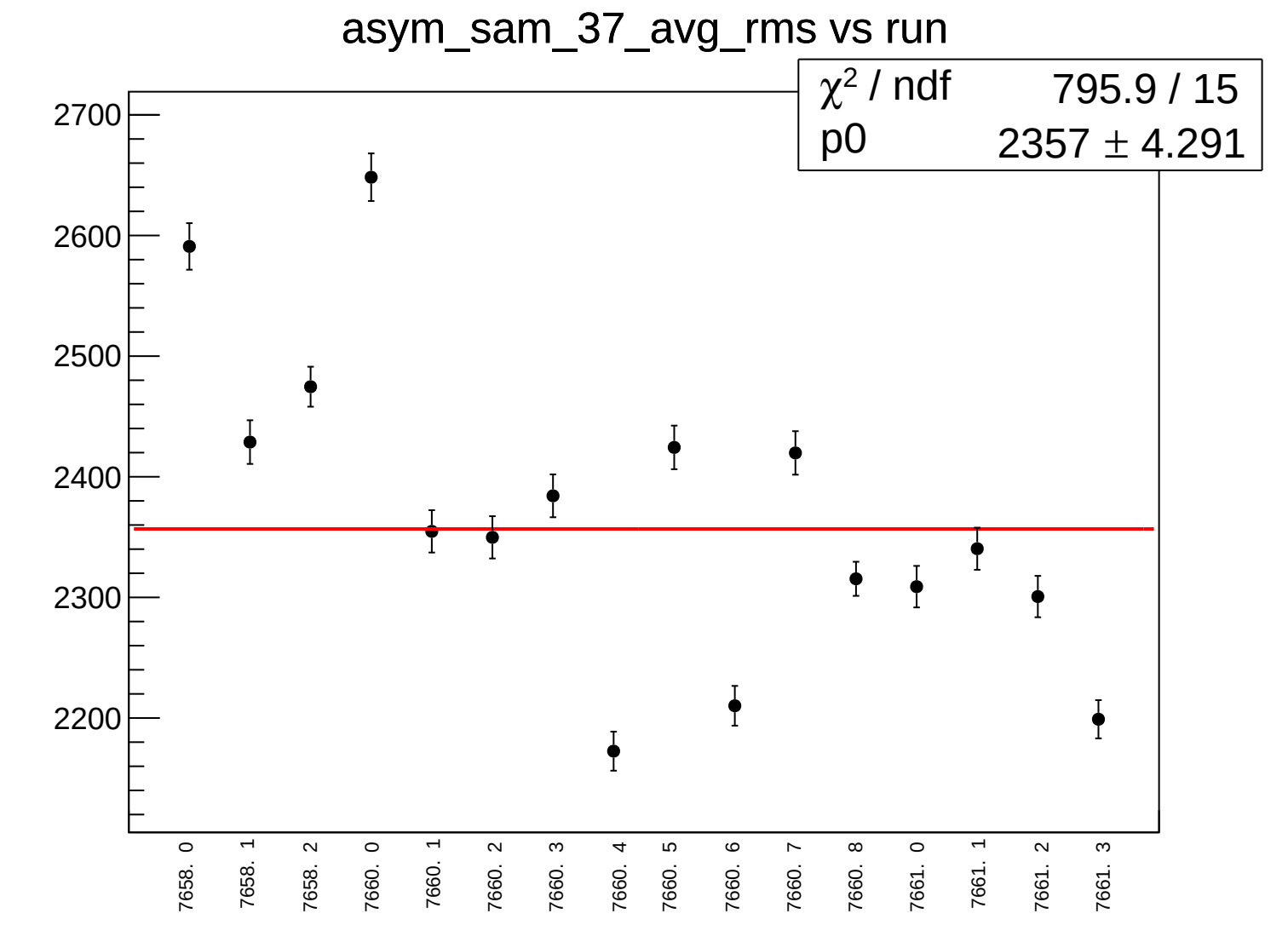

pull1D
Entries 16
Mean 0.01245
Std Dev 1.011
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

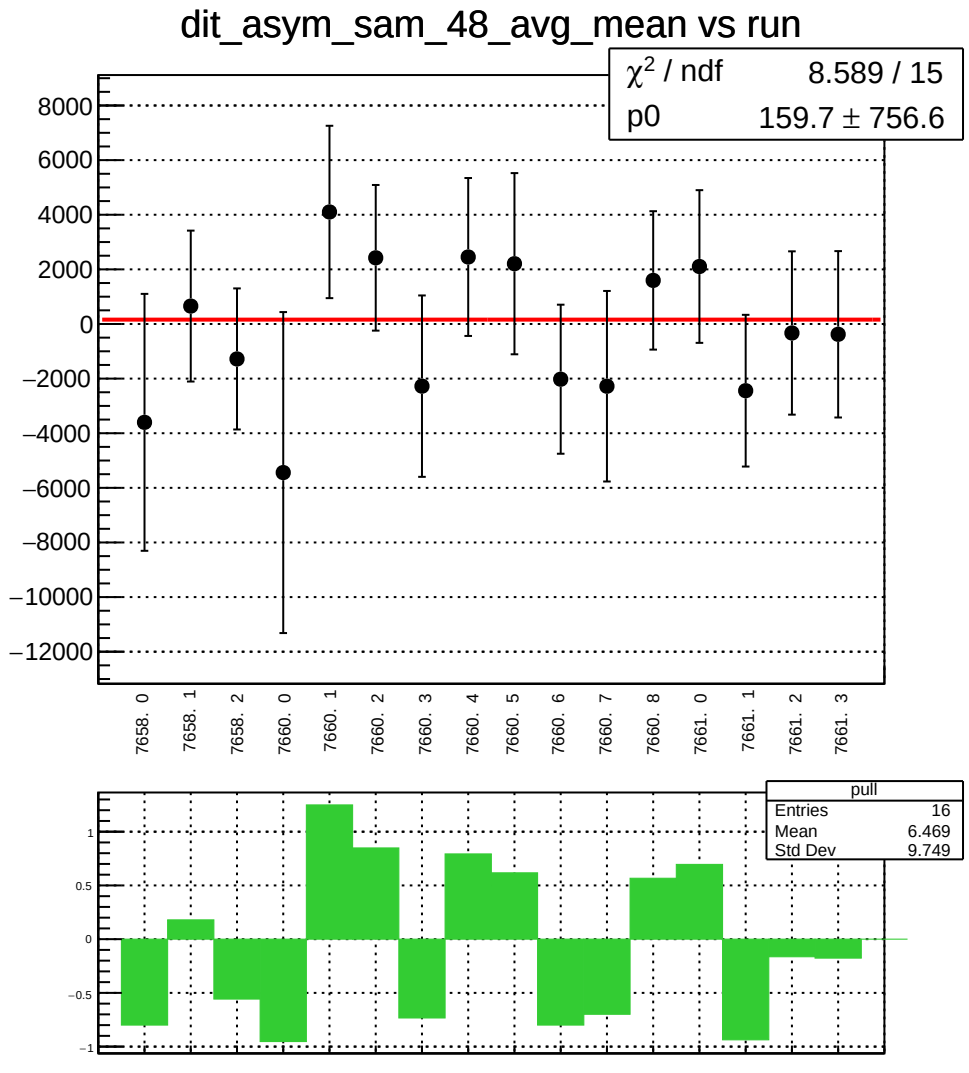

asym_sam_37_avg_correction_rms vs run
χ² / ndf 354.4 / 15
p0 2301 ± 4.187
2400
2350
2300
2250
2200
2150
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

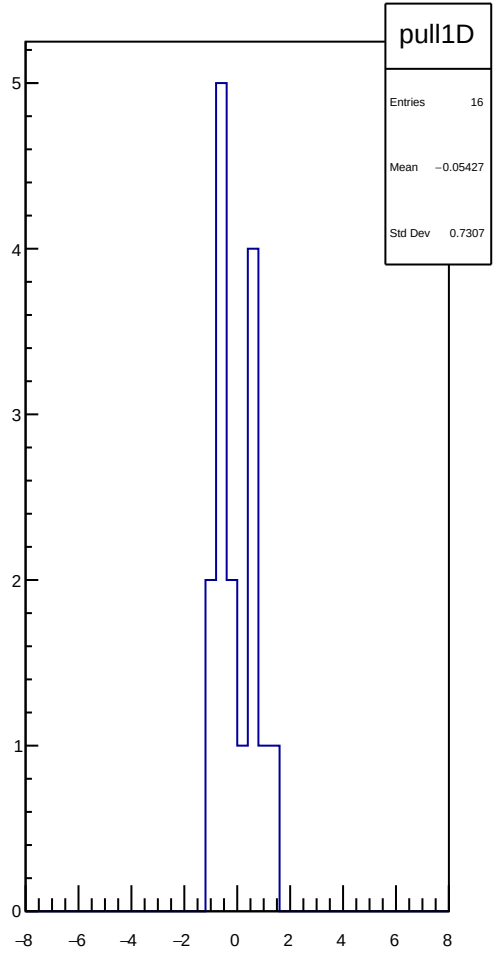

asym_sam_37_avg_mean vs run
χ² / ndf 16.6 / 15
p0 626.6 ± 6069
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

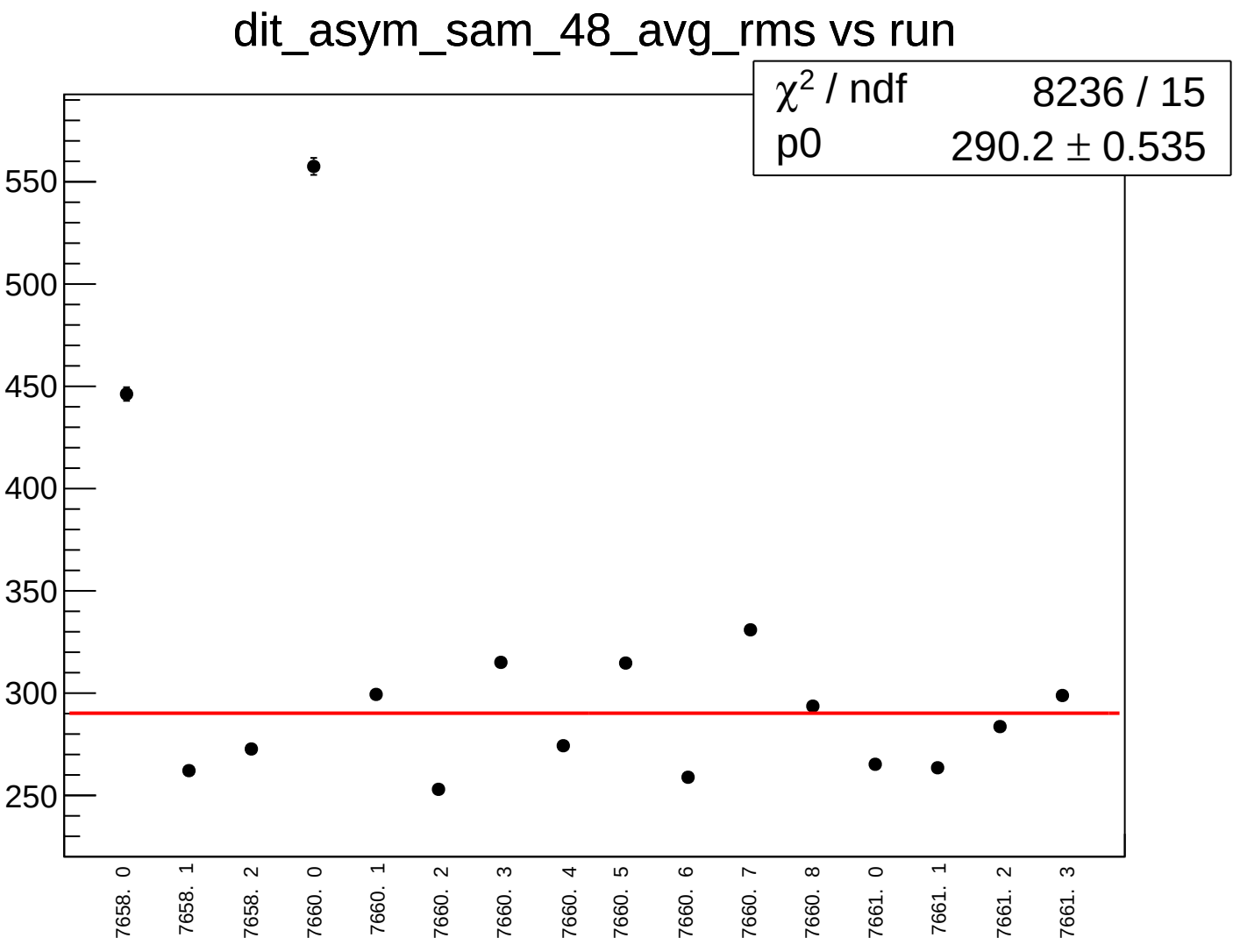

pull
Entries 16
Mean −28.81
Std Dev 34.24
1.5
1
0.5
0
−0.5
−1
−1.5

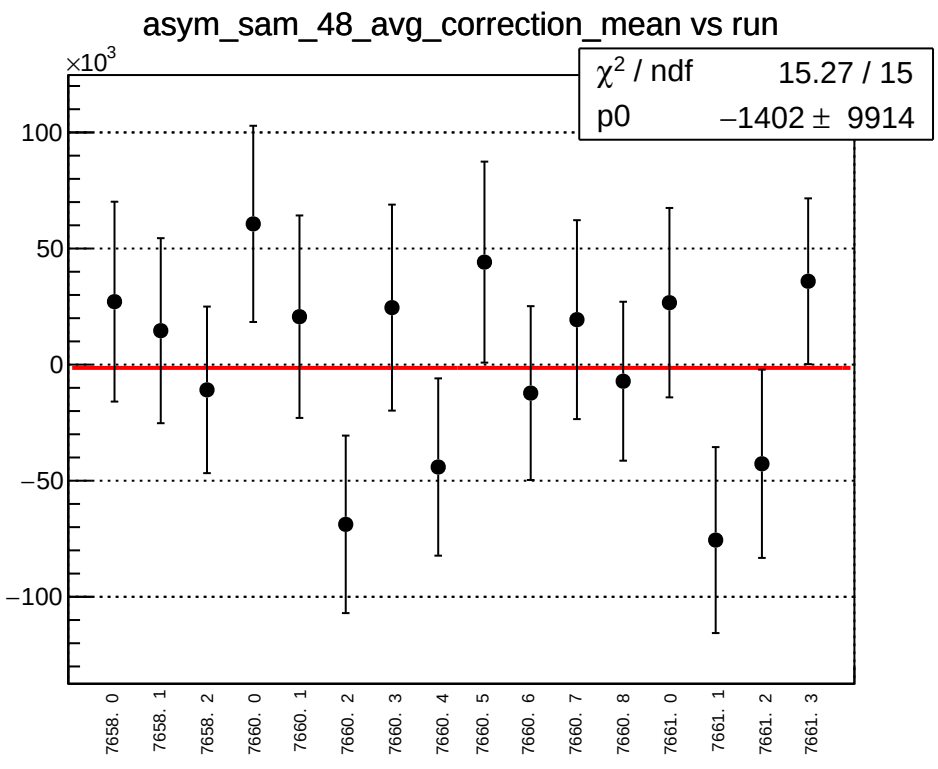

pull1D
Entries 16
Mean −0.02723
Std Dev 1.018
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

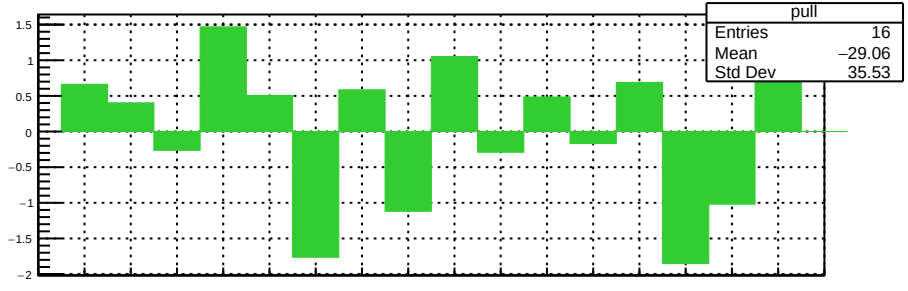

asym_sam_37_avg_rms vs run
χ² / ndf 795.9 / 15
p0 2357 ± 4.291
2700
2600
2500
2400
2300
2200
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

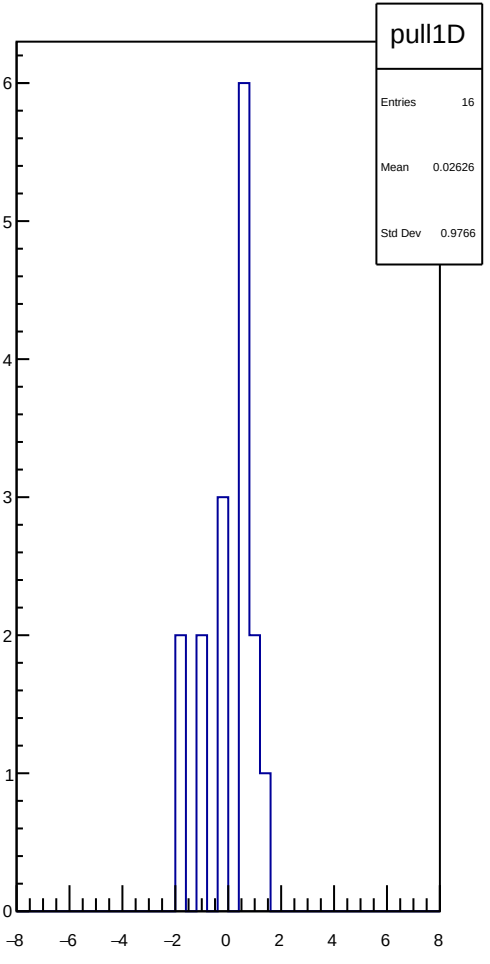

dit_asym_sam_48_avg_mean vs run
χ² / ndf 8.589 / 15
p0 159.7 ± 756.6
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 6.469
Std Dev 9.749
1
0.5
0
−0.5
−1

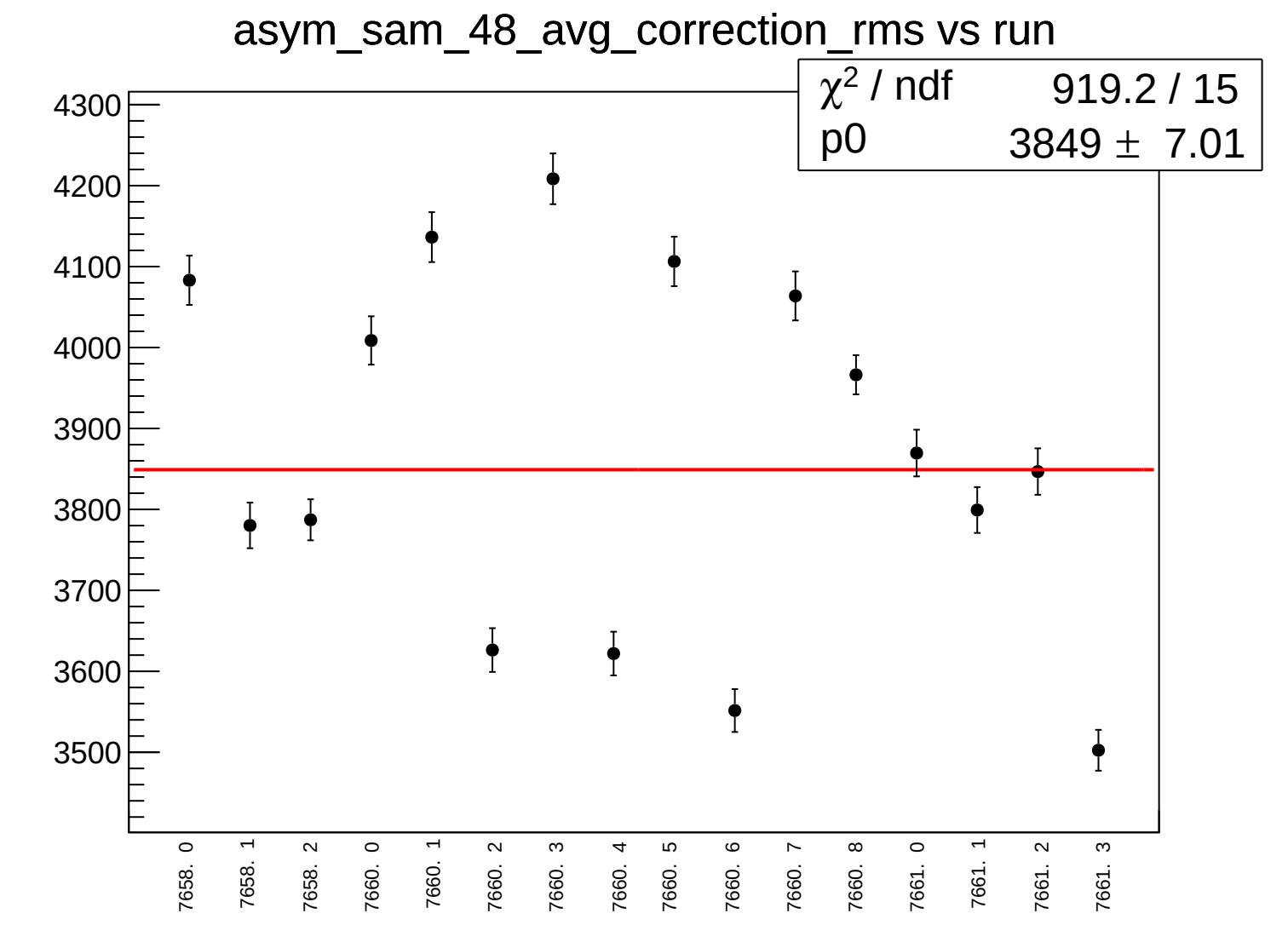

pull1D
Entries 16
Mean −0.05427
Std Dev 0.7307
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

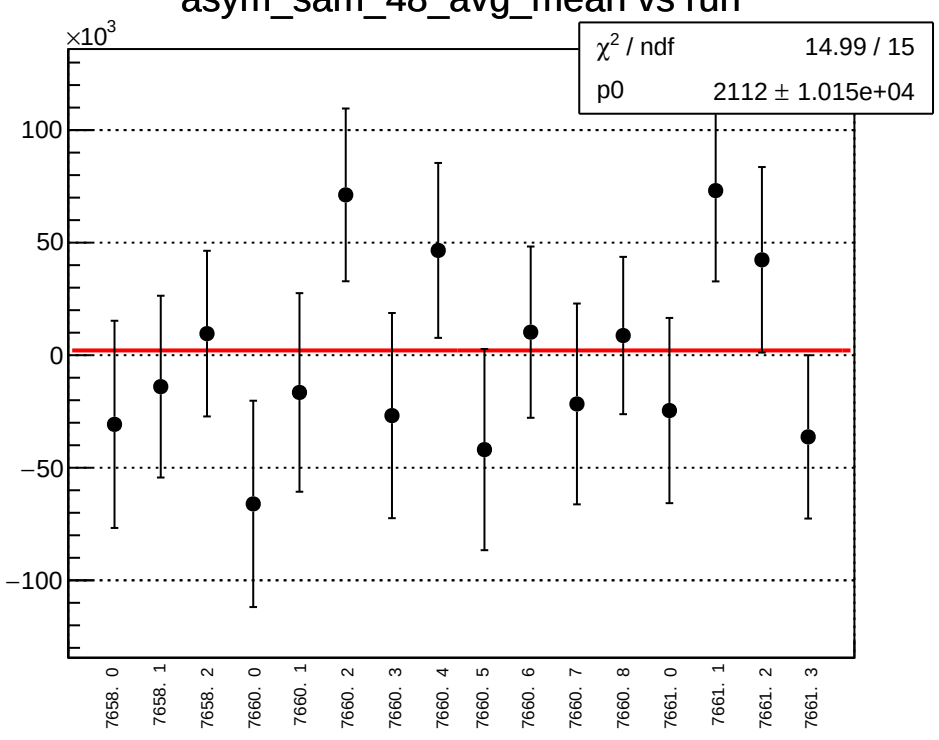

dit_asym_sam_48_avg_rms vs run
χ² / ndf 8236 / 15
p0 290.2 ± 0.535
550
500
450
400
350
300
250
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

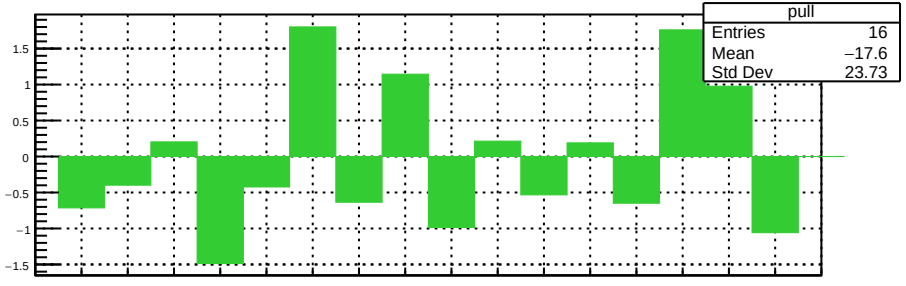

asym_sam_48_avg_correction_mean vs run
×10^3
χ² / ndf 15.27 / 15
p0 −1402 ± 9914
100
50
0
−50
−100
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

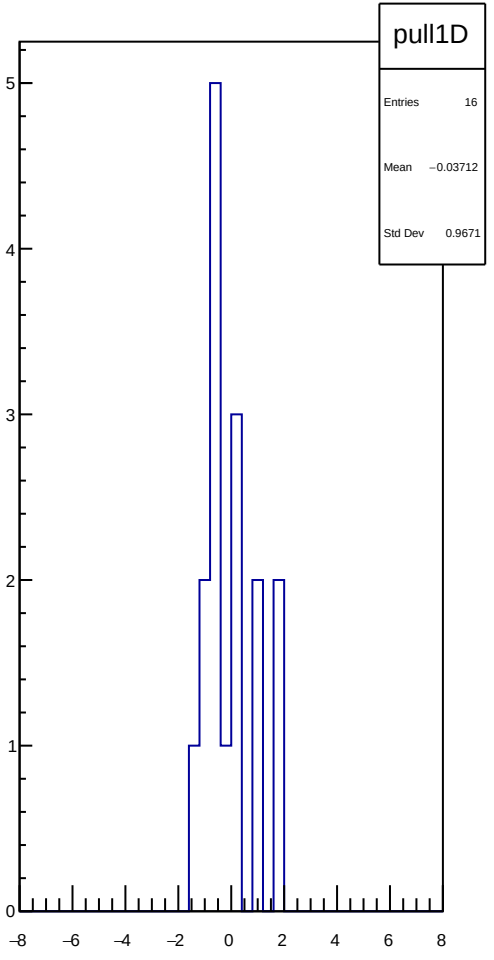

pull
Entries 16
Mean −29.06
Std Dev 35.53
1.5
1
0.5
0
−0.5
−1
−1.5
−2

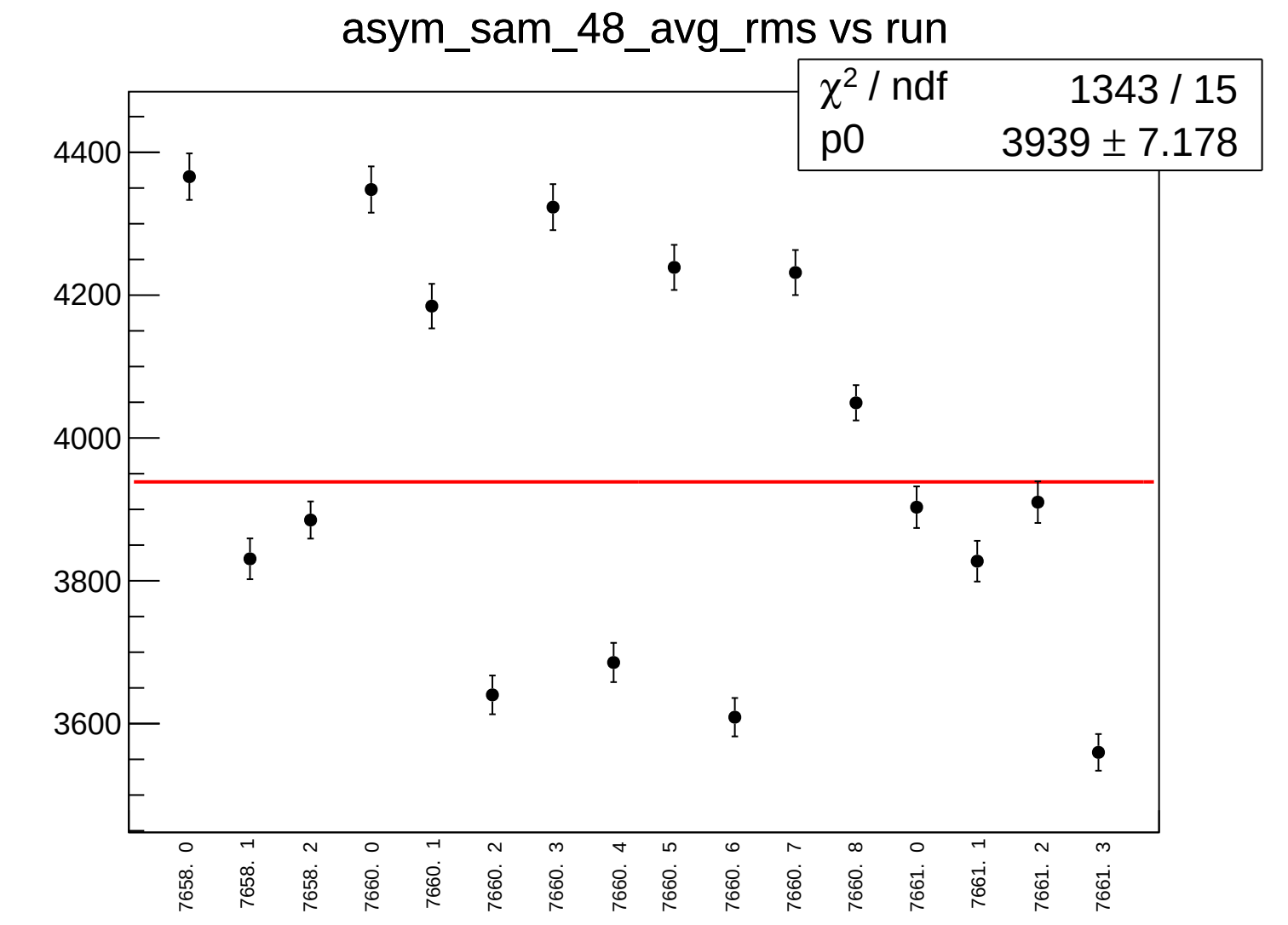

pull1D
Entries 16
Mean 0.02626
Std Dev 0.9766
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

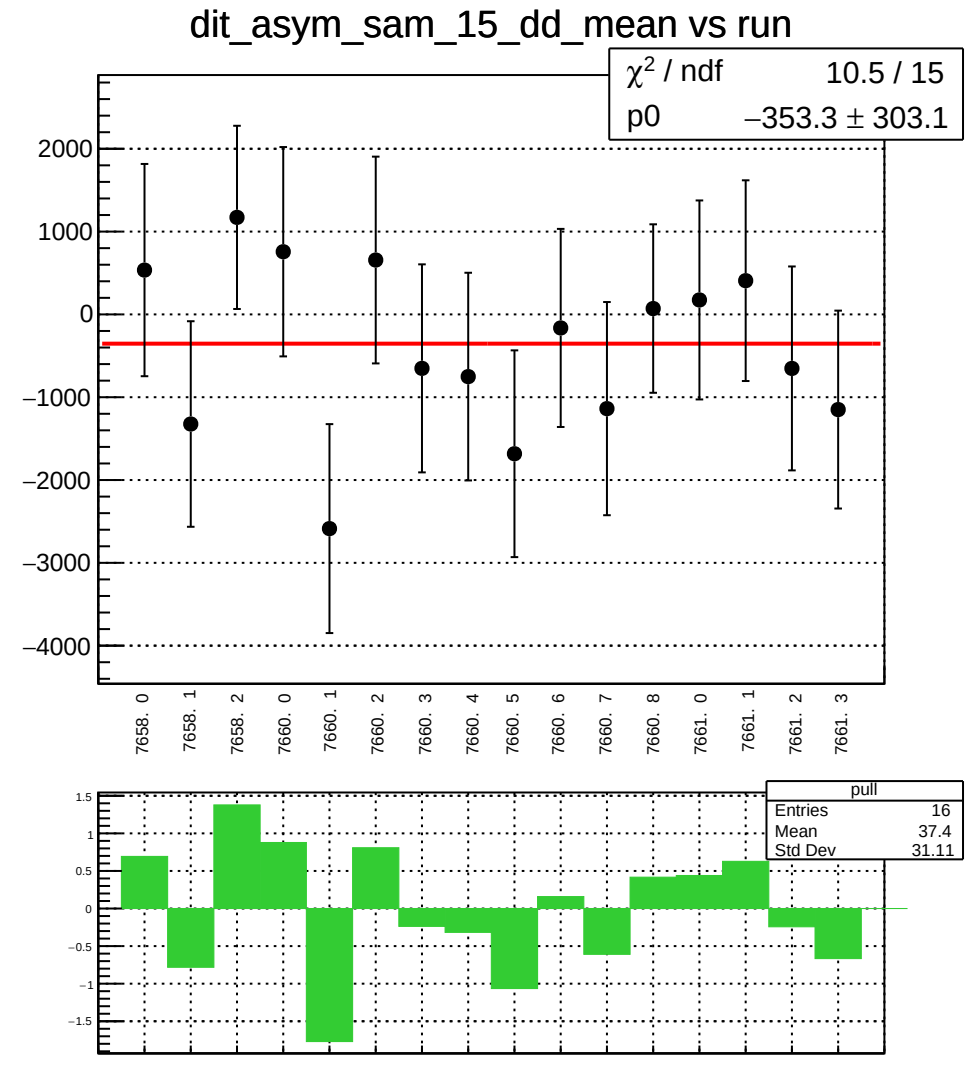

asym_sam_48_avg_correction_rms vs run
χ² / ndf 919.2 / 15
p0 3849 ± 7.01
4300
4200
4100
4000
3900
3800
3700
3600
3500
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

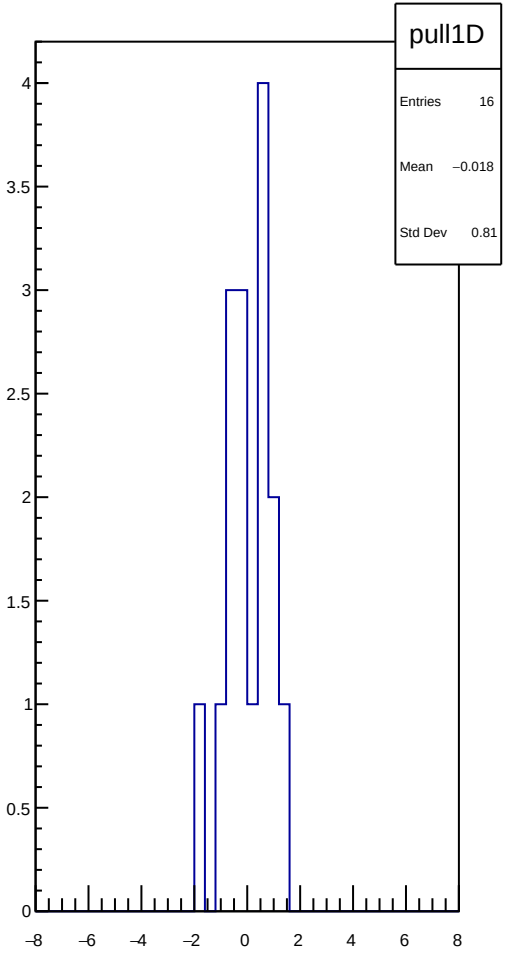

asym_sam_48_avg_mean vs run
×10^3
χ^2 / ndf 14.99 / 15
p0 2112 ± 1.015e+04
100
50
0
−50
−100
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

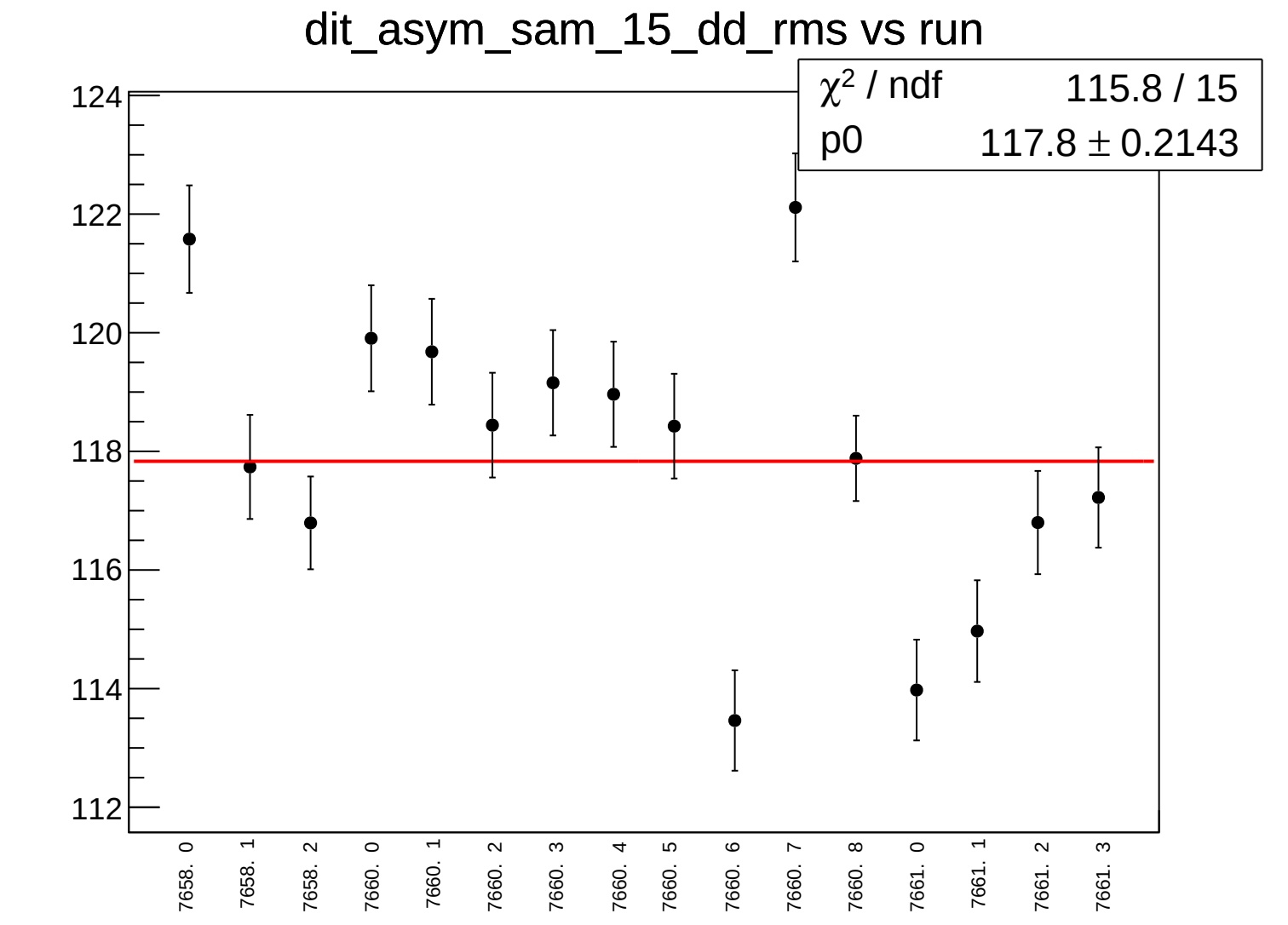

pull
Entries 16
Mean −17.6
Std Dev 23.73
1.5
1
0.5
0
−0.5
−1
−1.5

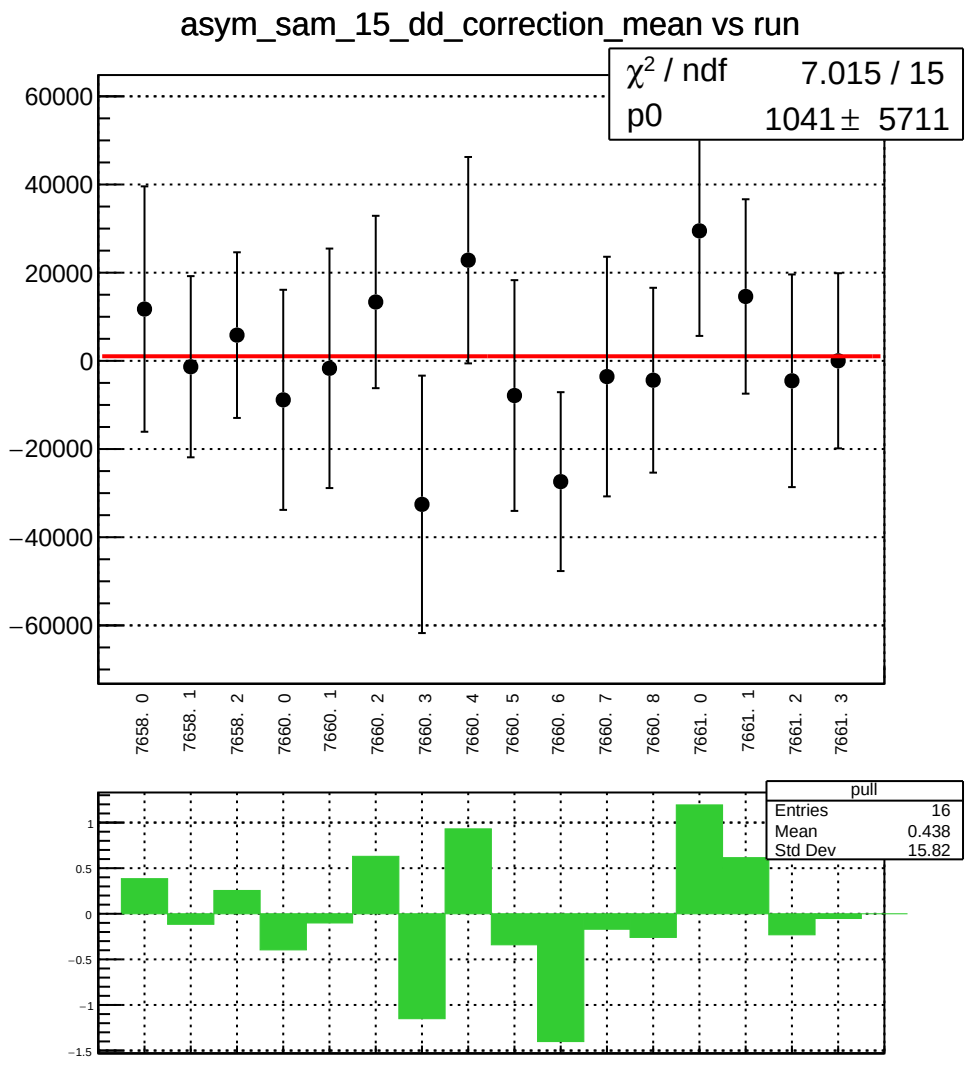

pull1D
Entries 16
Mean −0.03712
Std Dev 0.9671
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

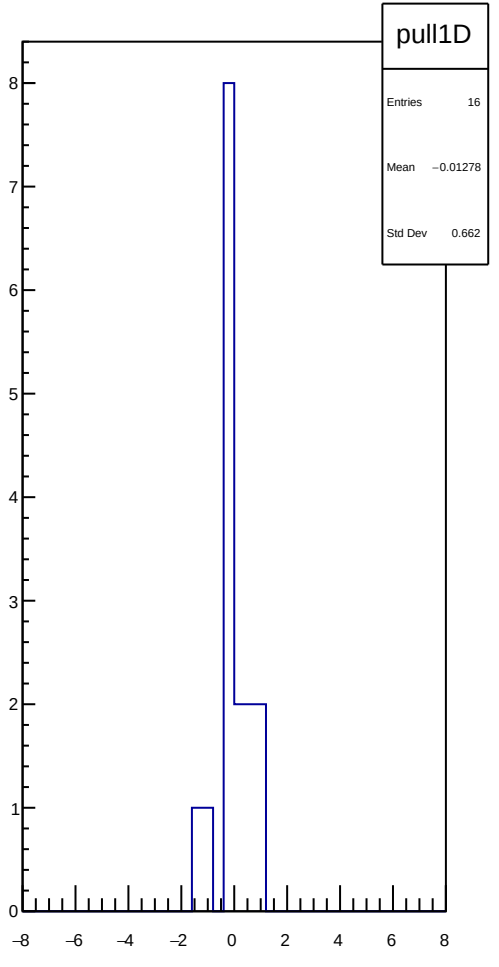

asym_sam_48_avg_rms vs run
χ² / ndf 1343 / 15
p0 3939 ± 7.178
4400
4200
4000
3800
3600
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

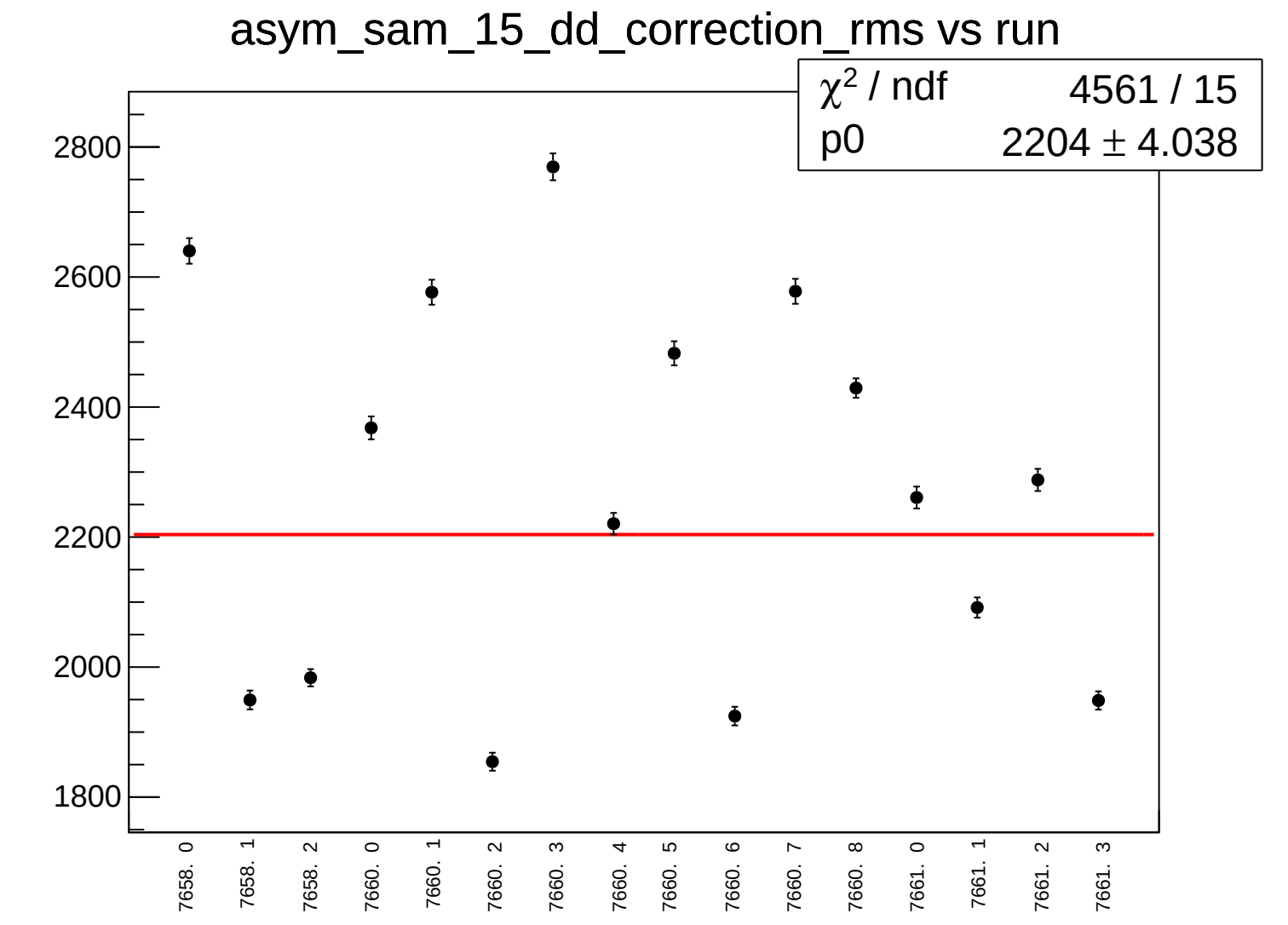

dit_asym_sam_15_dd_mean vs run
χ² / ndf 10.5 / 15
p0 −353.3 ± 303.1
2000
1000
0
−1000
−2000
−3000
−4000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 37.4
Std Dev 31.11
1.5
1
0.5
0
−0.5
−1
−1.5

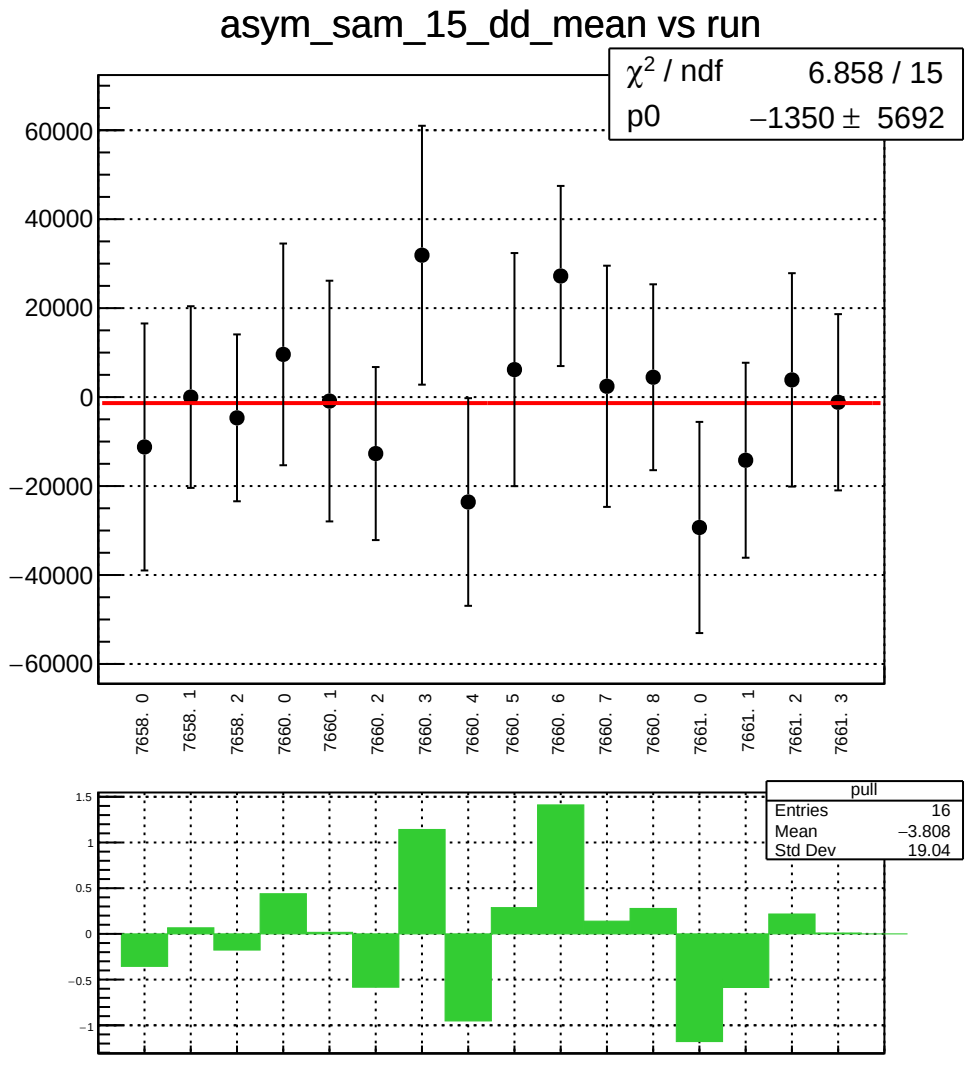

pull1D
Entries 16
Mean −0.018
Std Dev 0.81
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

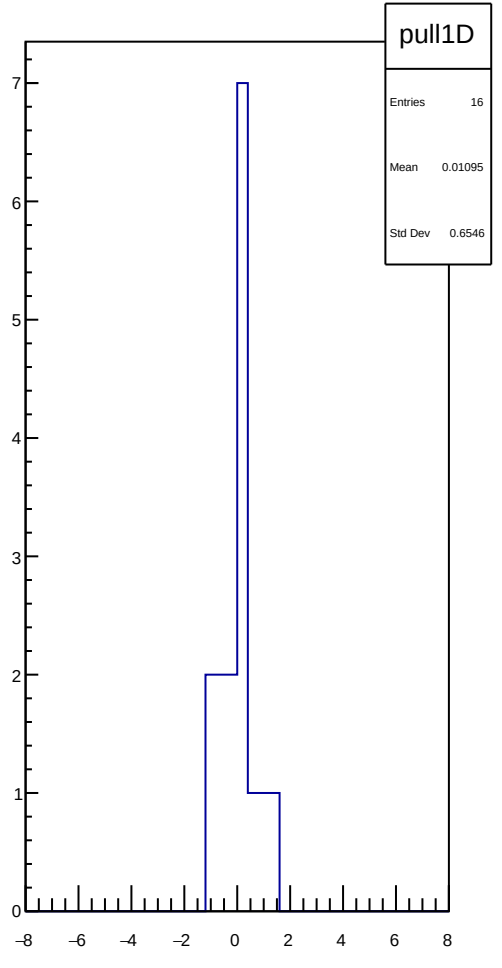

dit_asym_sam_15_dd_rms vs run
χ² / ndf 115.8 / 15
p0 117.8 ± 0.2143
124
122
120
118
116
114
112
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

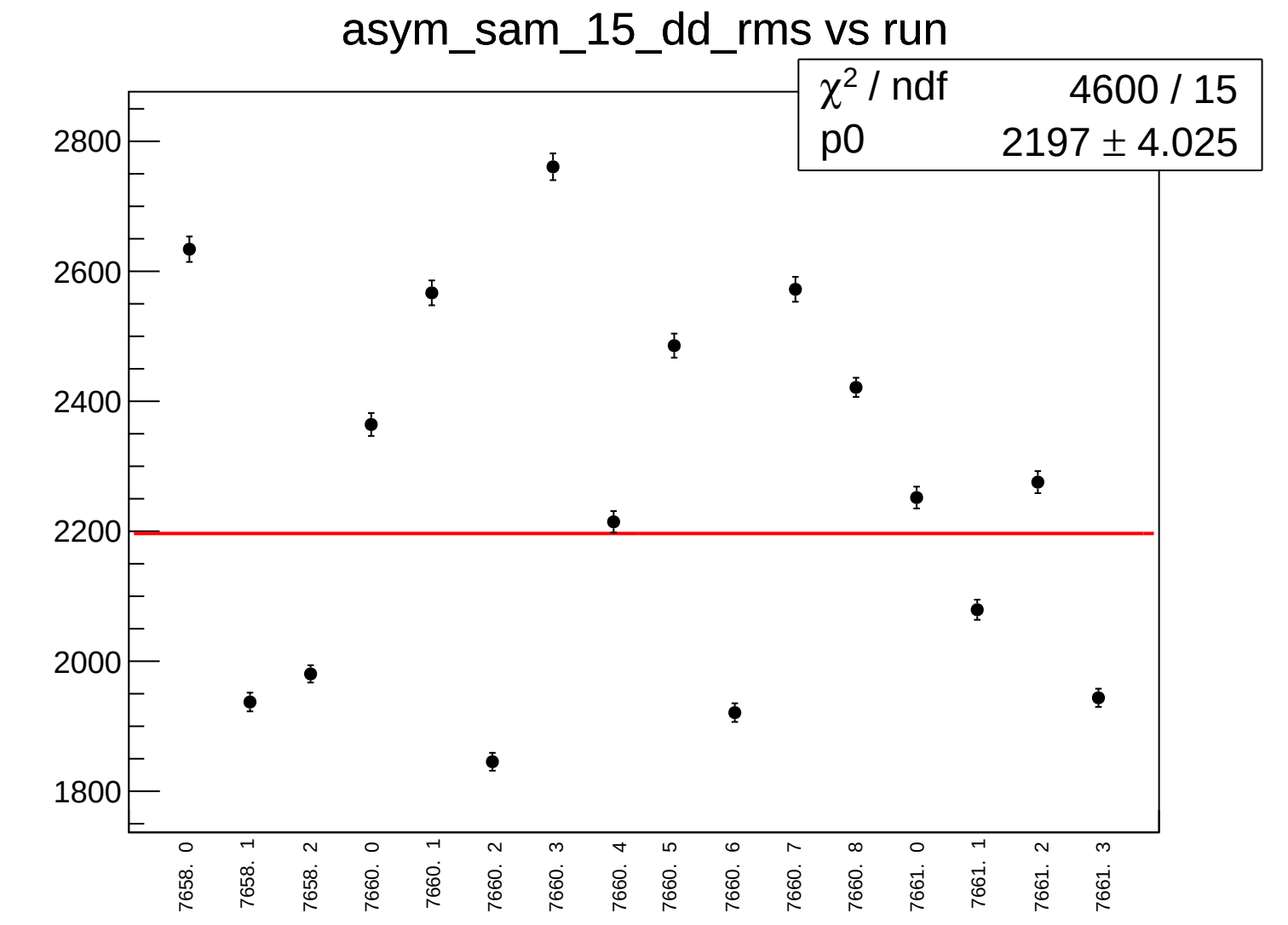

asym_sam_15_dd_correction_mean vs run
χ² / ndf 7.015 / 15
p0 1041 ± 5711
60000
40000
20000
0
−20000
−40000
−60000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 0.438
Std Dev 15.82
1
0.5
0
−0.5
−1
−1.5

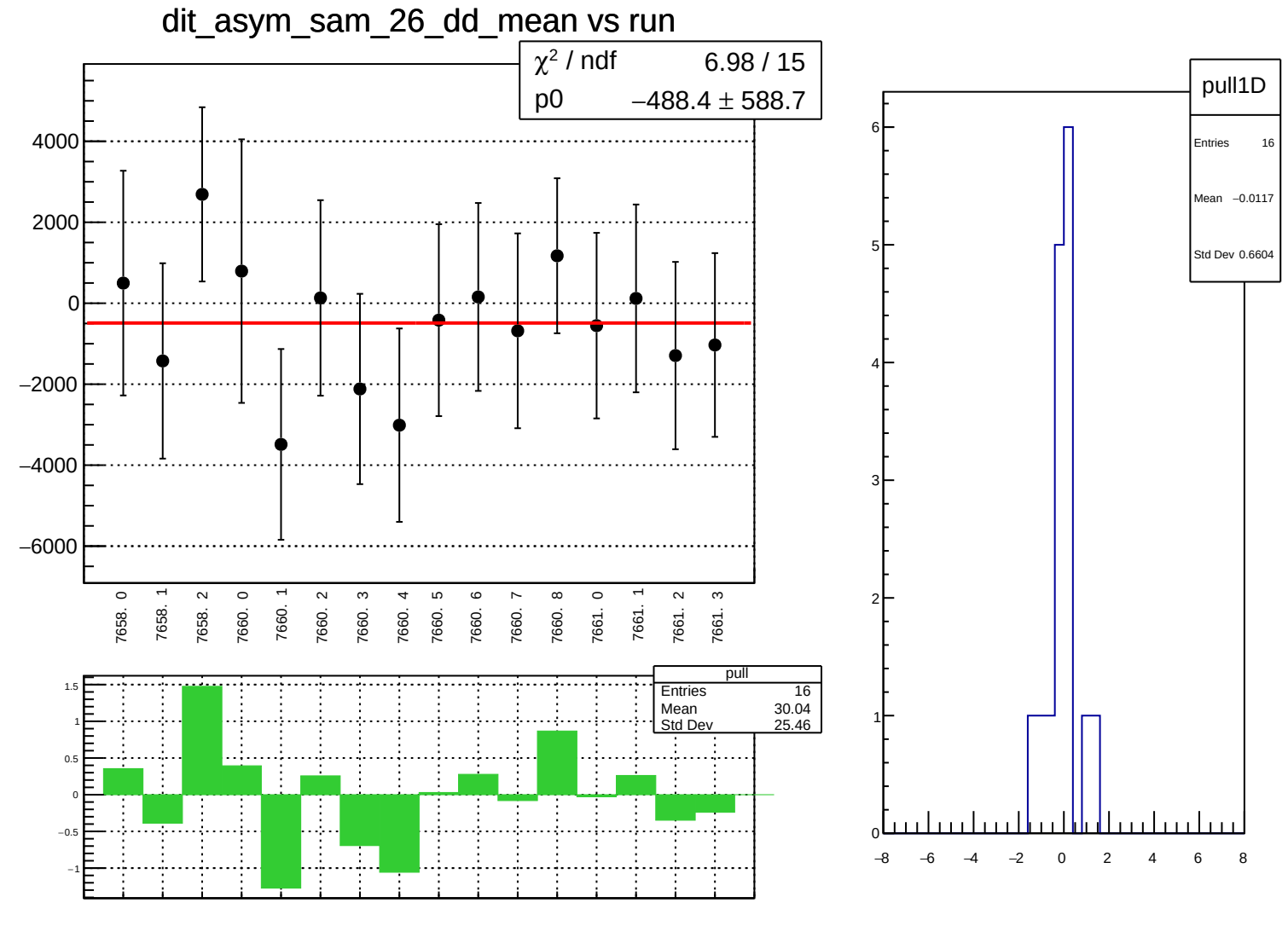

pull1D
Entries 16
Mean −0.01278
Std Dev 0.662
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

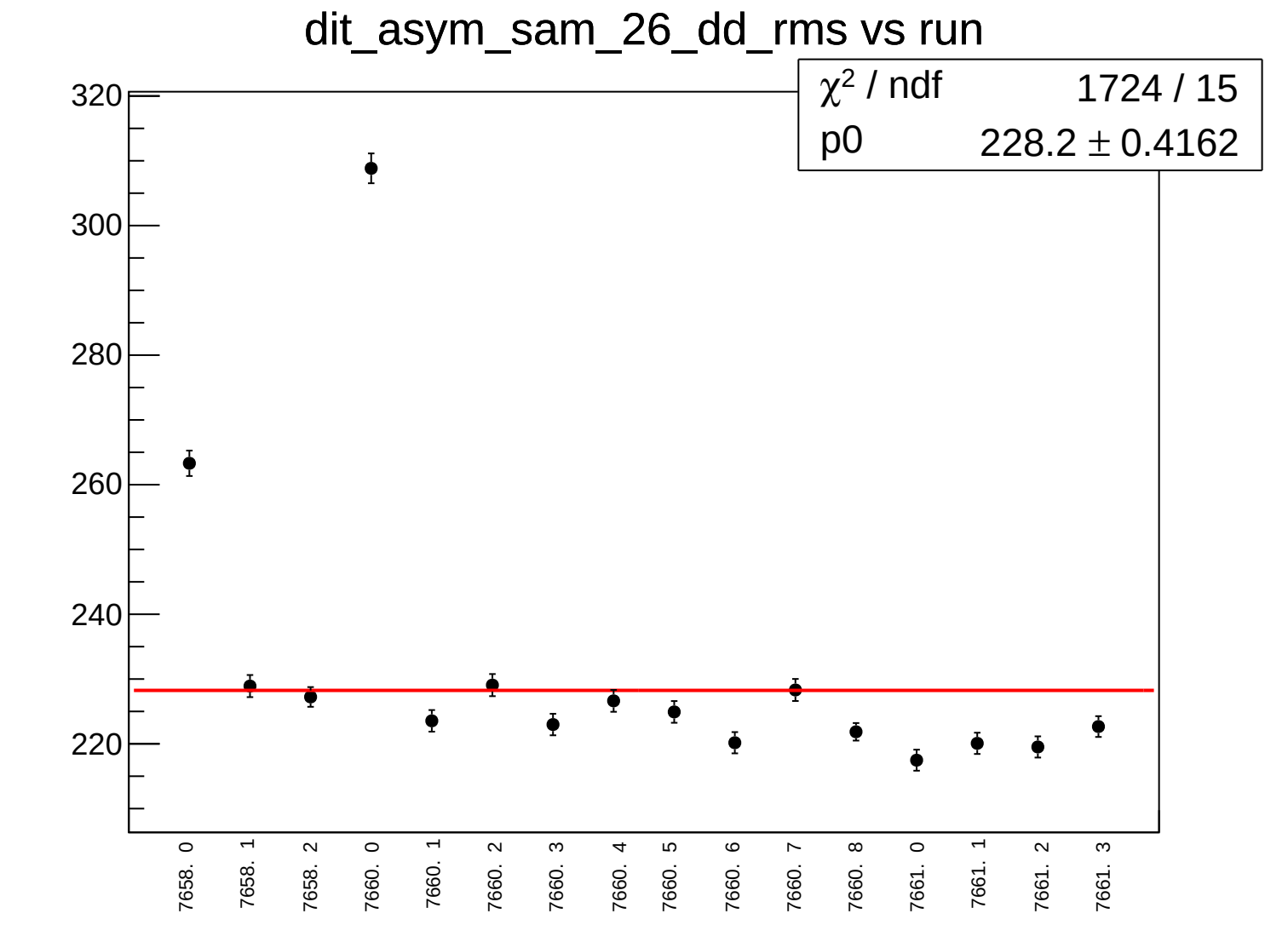

asym_sam_15_dd_correction_rms vs run
χ² / ndf 4561 / 15
p0 2204 ± 4.038
2800
2600
2400
2200
2000
1800
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

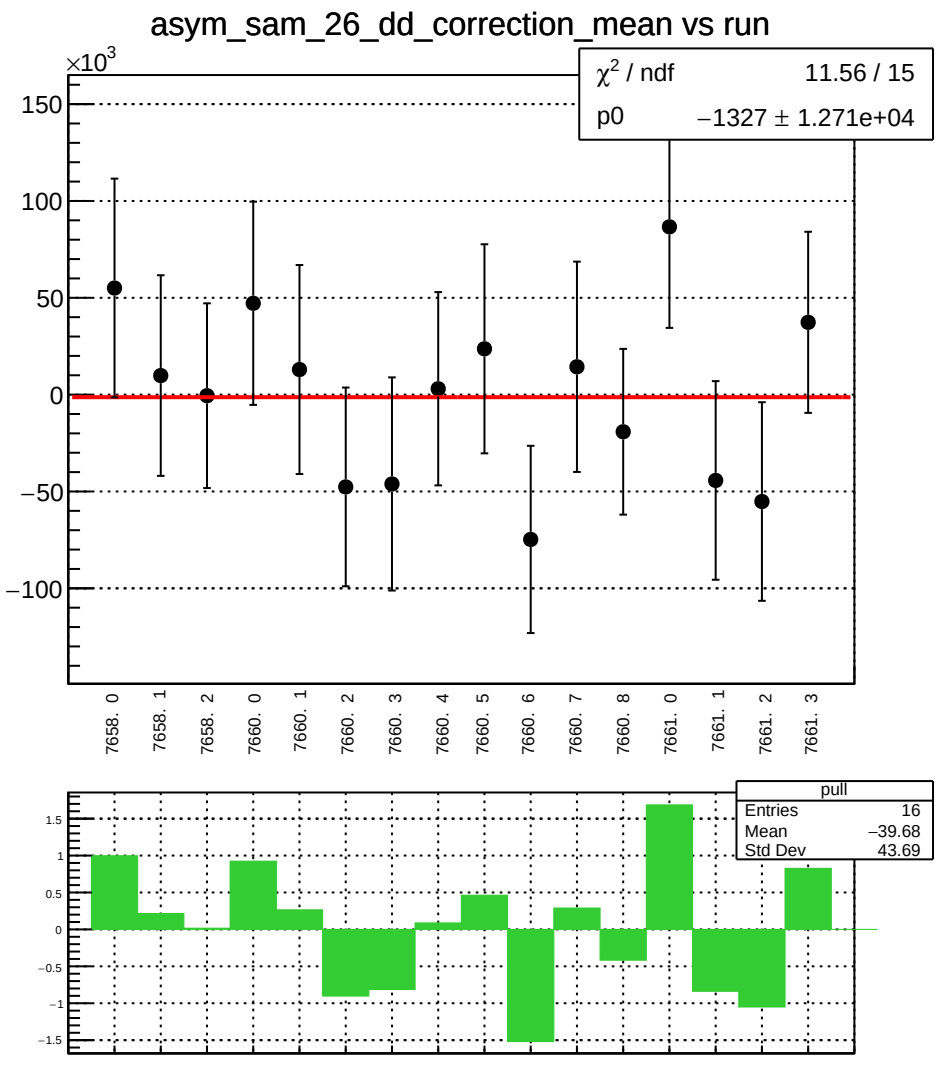

asym_sam_15_dd_mean vs run
χ² / ndf 6.858 / 15
p0 −1350 ± 5692
60000
40000
20000
0
−20000
−40000
−60000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −3.808
Std Dev 19.04
1.5
1
0.5
0
−0.5
−1

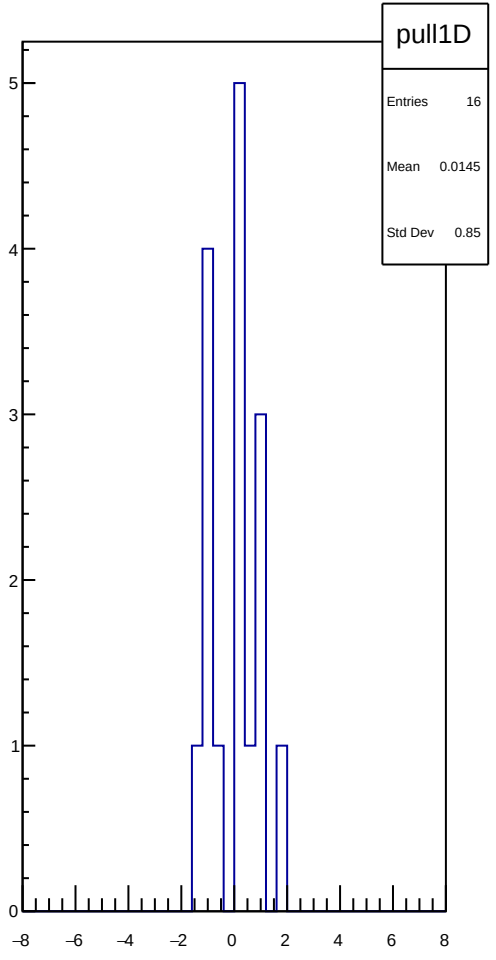

pull1D
Entries 16
Mean 0.01095
Std Dev 0.6546
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

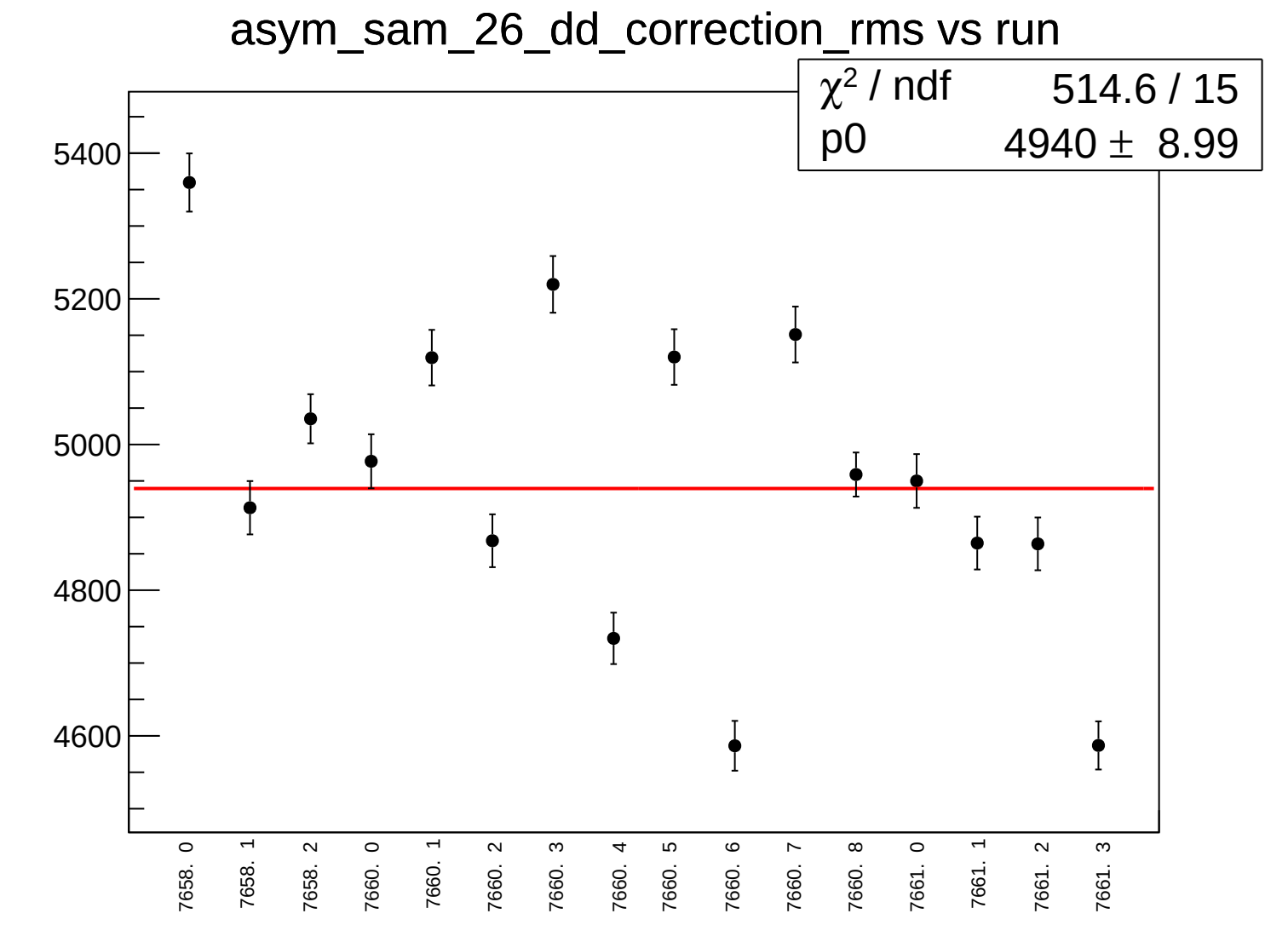

asym_sam_15_dd_rms vs run
χ² / ndf 4600 / 15
p0 2197 ± 4.025
2800
2600
2400
2200
2000
1800
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

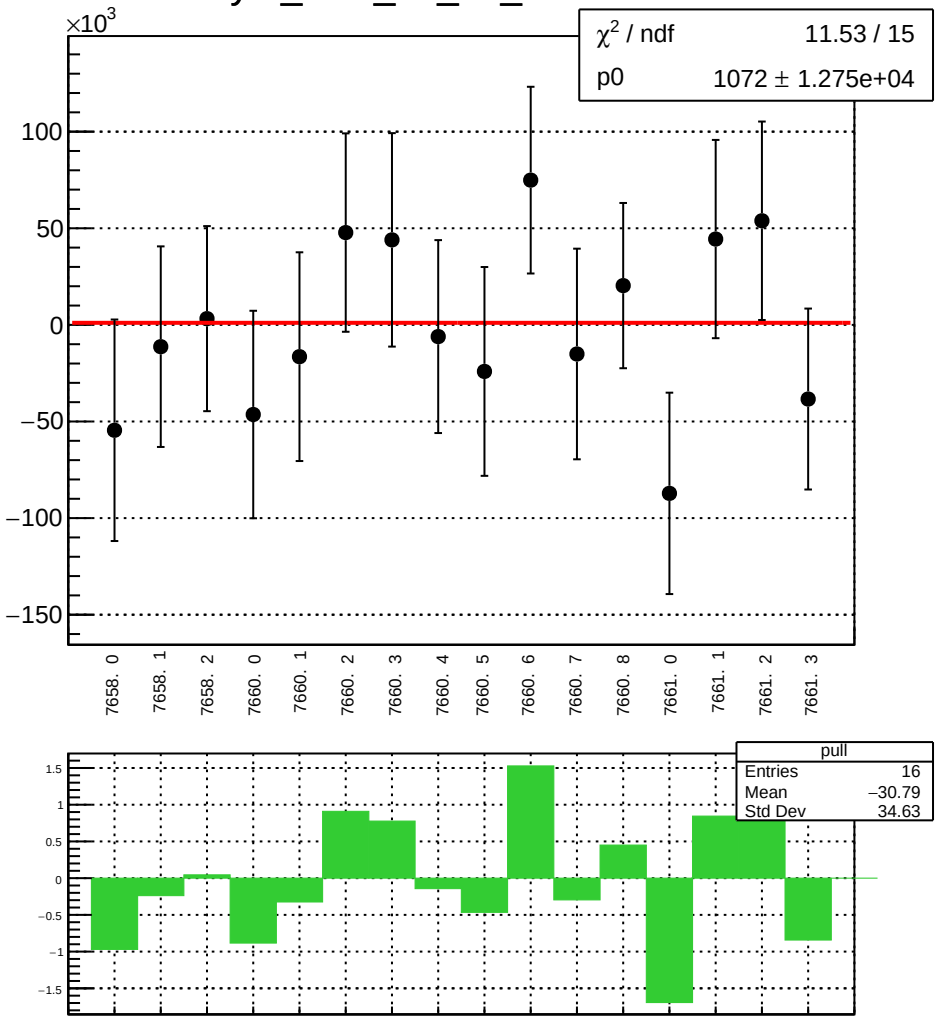

dit_asym_sam_26_dd_mean vs run
χ² / ndf 6.98 / 15
p0 −488.4 ± 588.7
4000
2000
0
−2000
−4000
−6000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 30.04
Std Dev 25.46
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 16
Mean −0.0117
Std Dev 0.6604
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

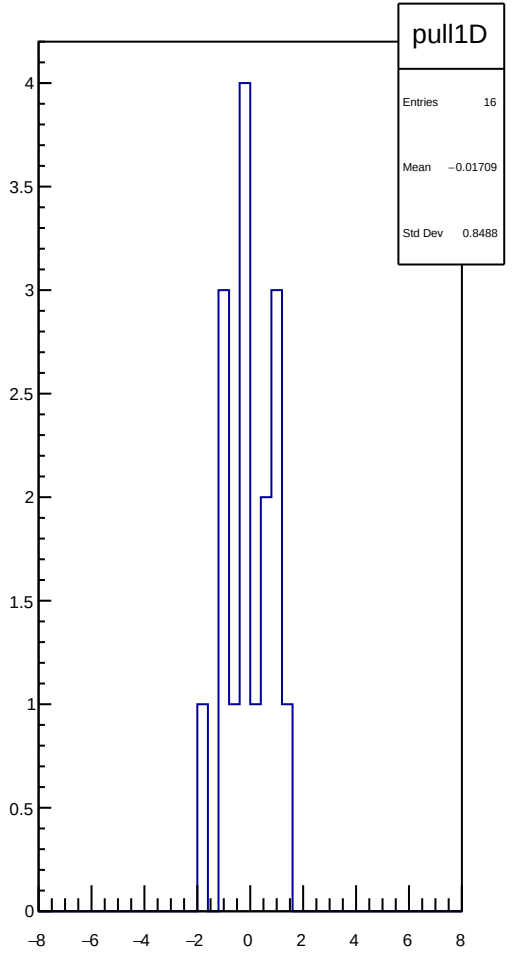

dit_asym_sam_26_dd_rms vs run
χ² / ndf 1724 / 15
p0 228.2 ± 0.4162
320
300
280
260
240
220
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

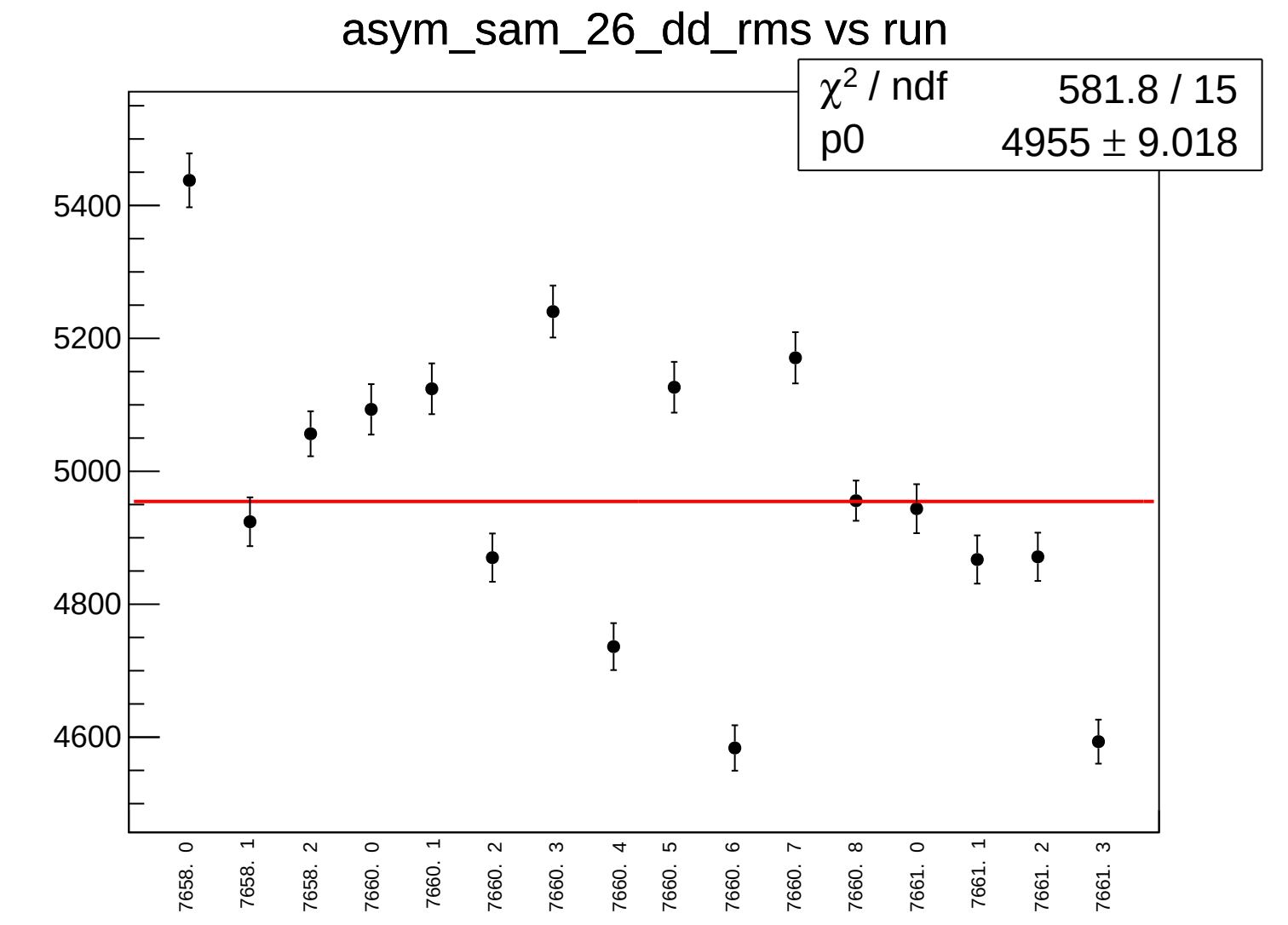

asym_sam_26_dd_correction_mean vs run
×10^3
χ² / ndf 11.56 / 15
p0 −1327 ± 1.271e+04
150
100
50
0
−50
−100
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −39.68
Std Dev 43.69
1.5
1
0.5
0
−0.5
−1
−1.5

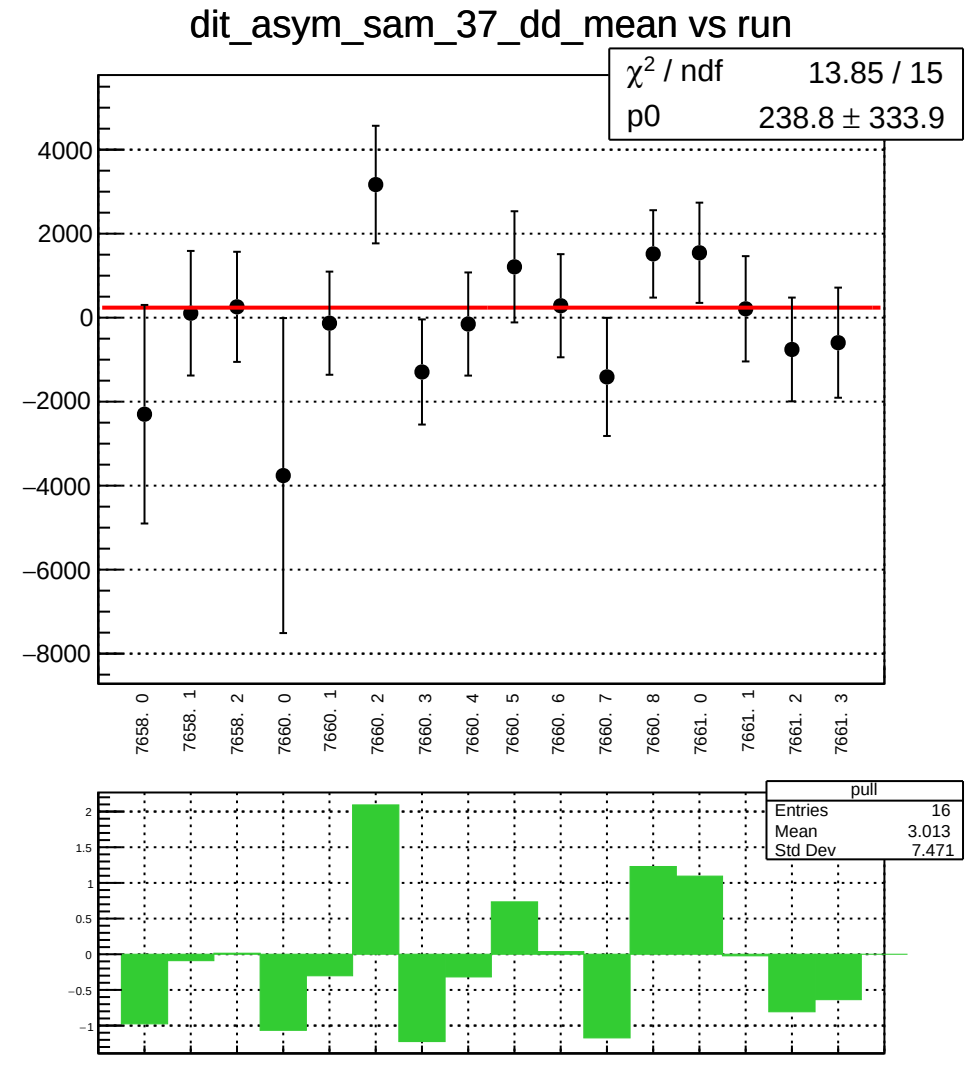

pull1D
Entries 16
Mean 0.0145
Std Dev 0.85
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

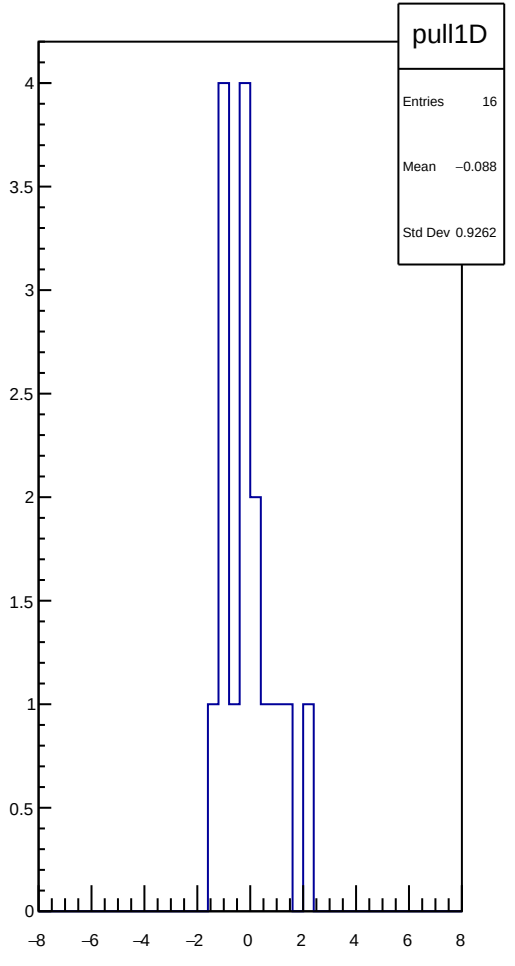

asym_sam_26_dd_correction_rms vs run
χ² / ndf 514.6 / 15
p0 4940 ± 8.99
5400
5200
5000
4800
4600
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

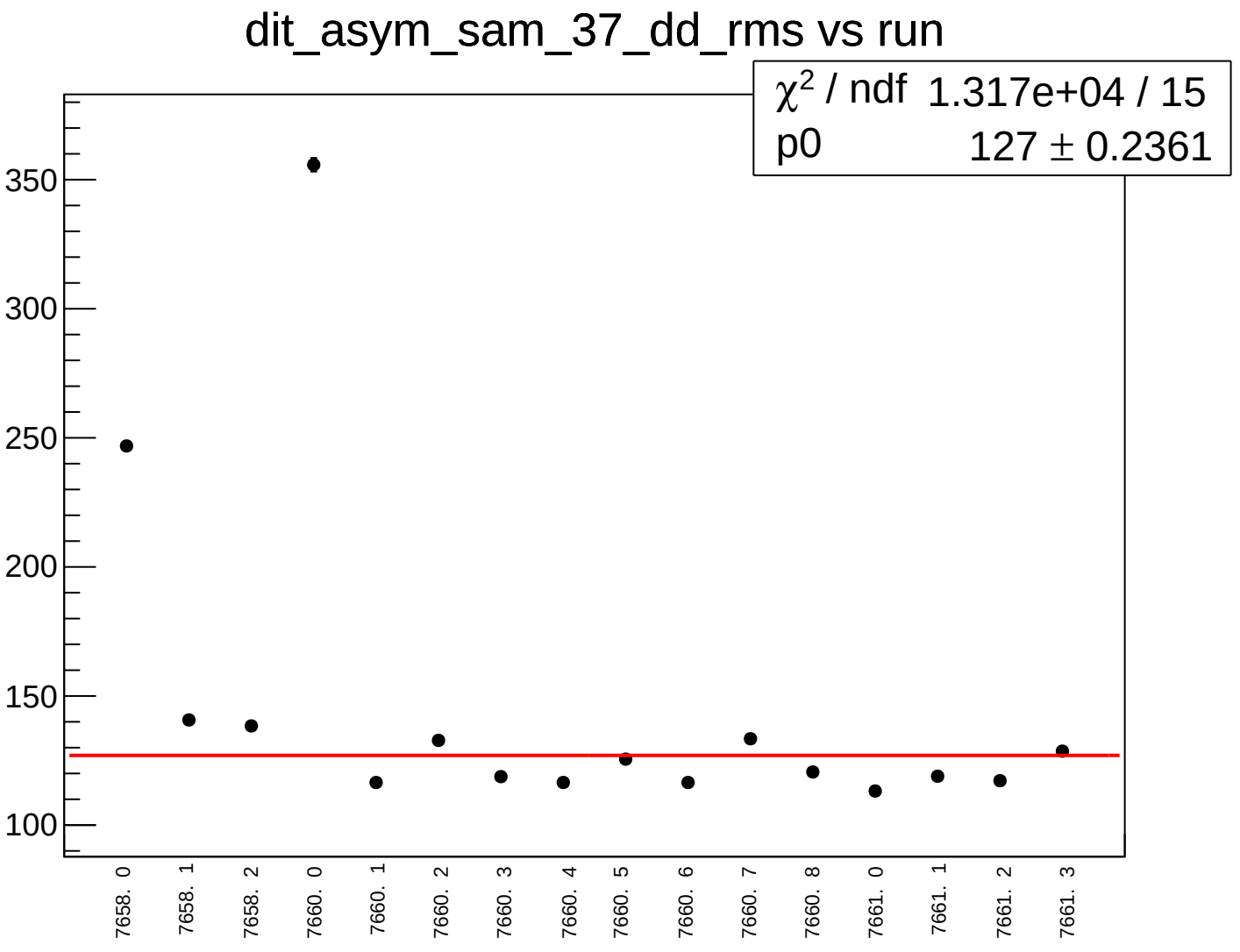

asym_sam_26_dd_mean vs run
×10^3
χ² / ndf 11.53 / 15
p0 1072 ± 1.275e+04
100
50
0
−50
−100
−150
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −30.79
Std Dev 34.63
1.5
1
0.5
0
−0.5
−1
−1.5

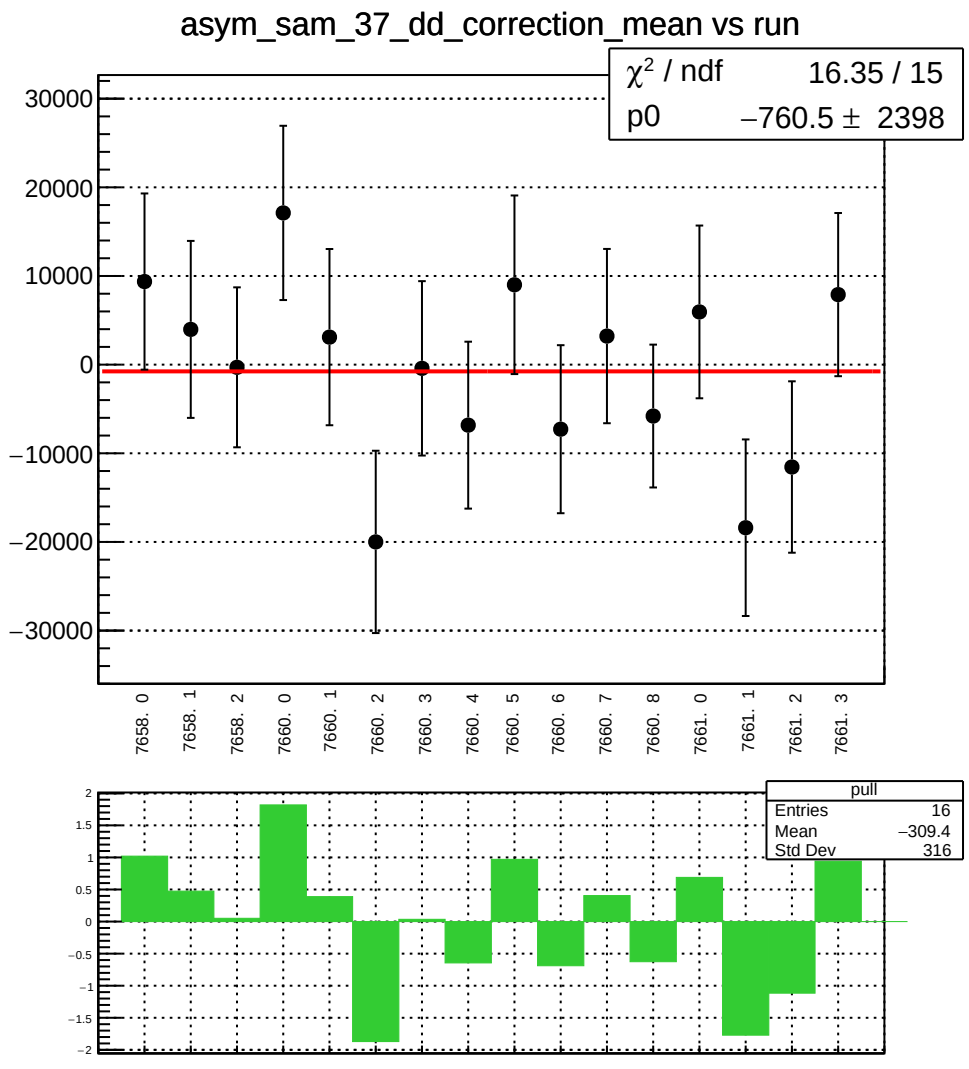

pull1D
Entries 16
Mean −0.01709
Std Dev 0.8488
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

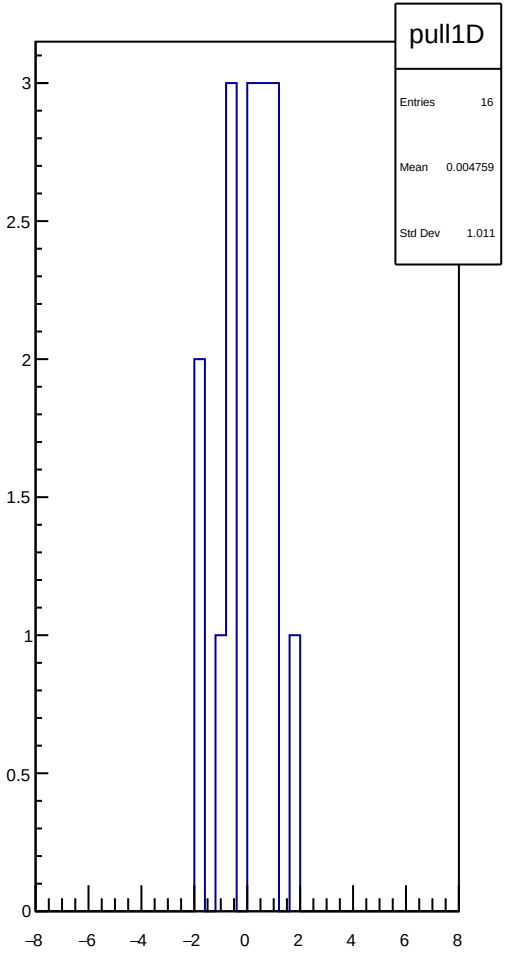

asym_sam_26_dd_rms vs run
χ² / ndf 581.8 / 15
p0 4955 ± 9.018
5400
5200
5000
4800
4600
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

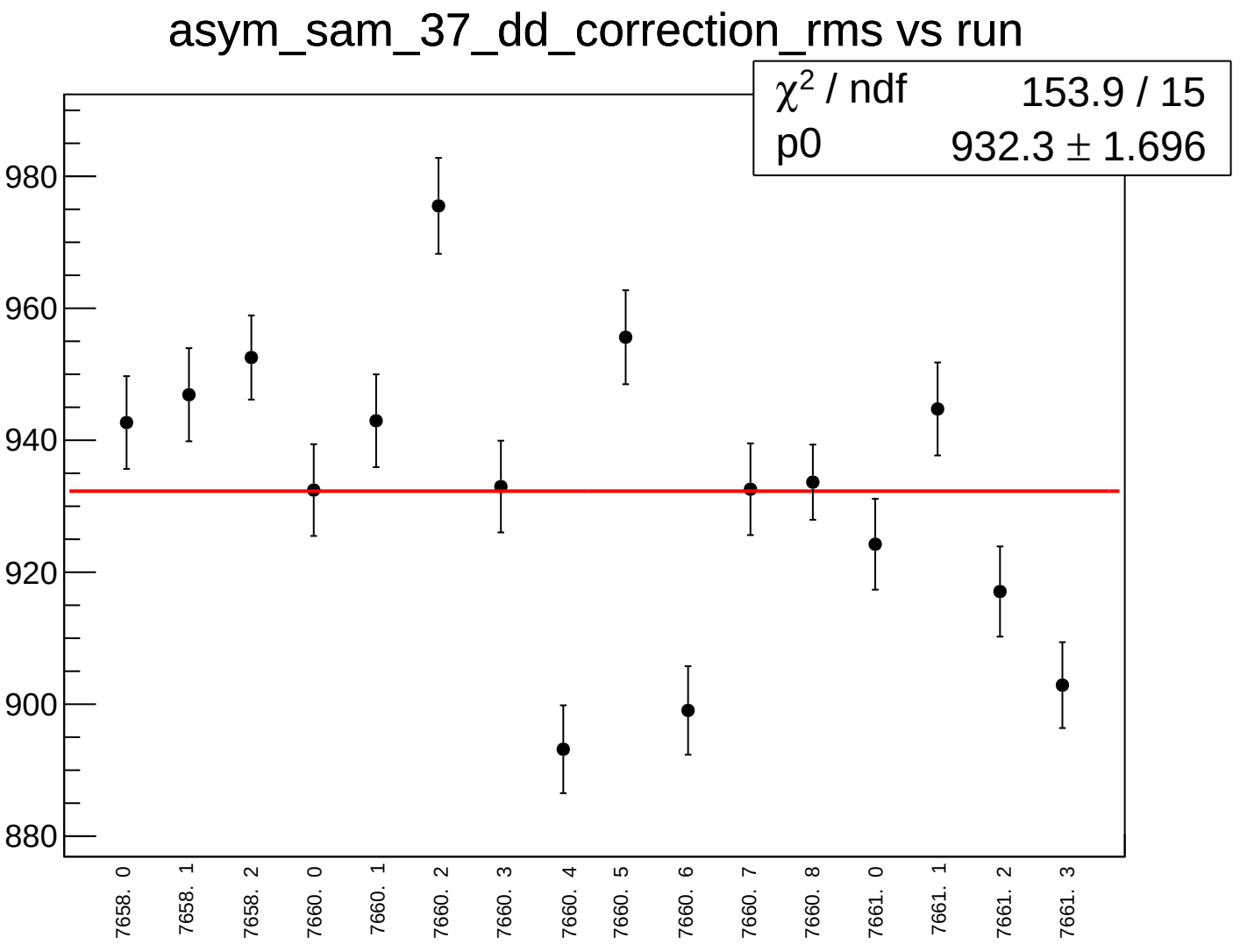

dit_asym_sam_37_dd_mean vs run
χ² / ndf 13.85 / 15
p0 238.8 ± 333.9
4000
2000
0
−2000
−4000
−6000
−8000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 3.013
Std Dev 7.471
2
1.5
1
0.5
0
−0.5
−1

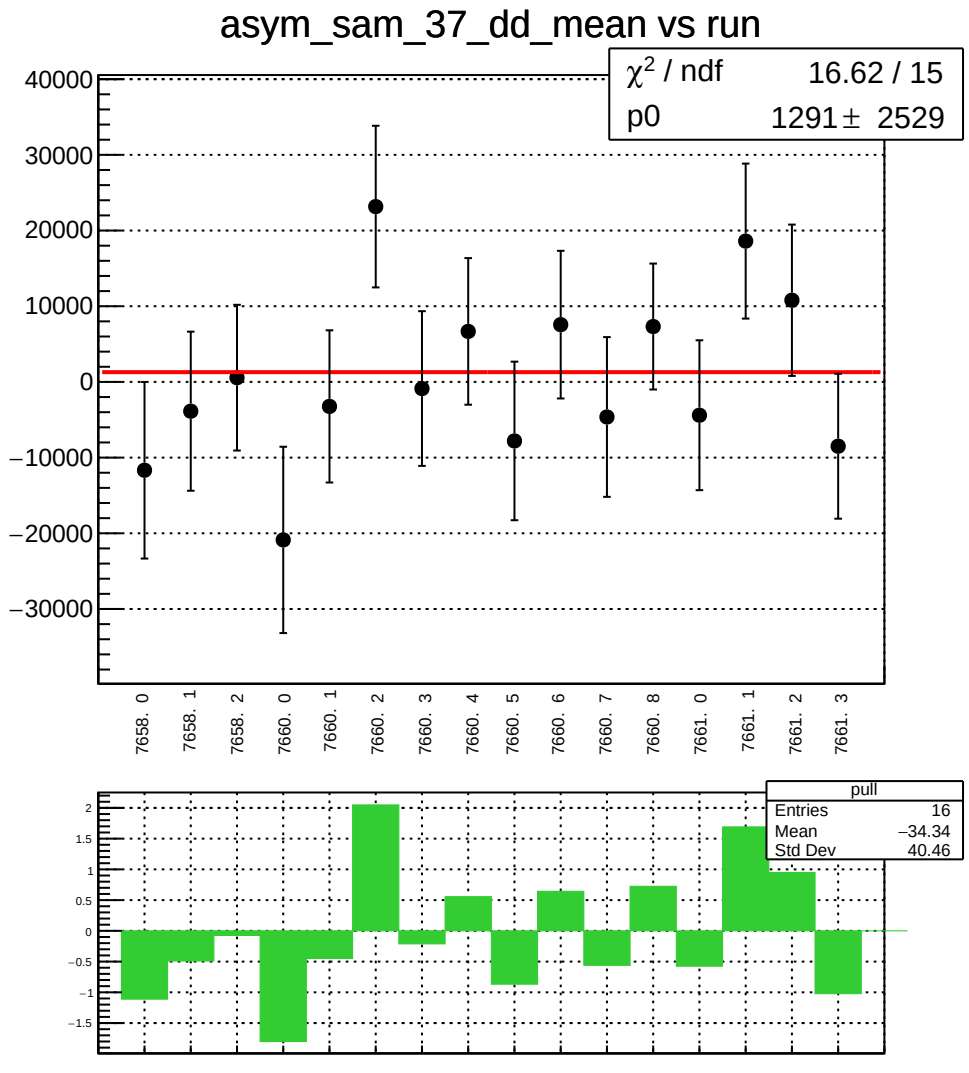

pull1D
Entries 16
Mean −0.088
Std Dev 0.9262
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

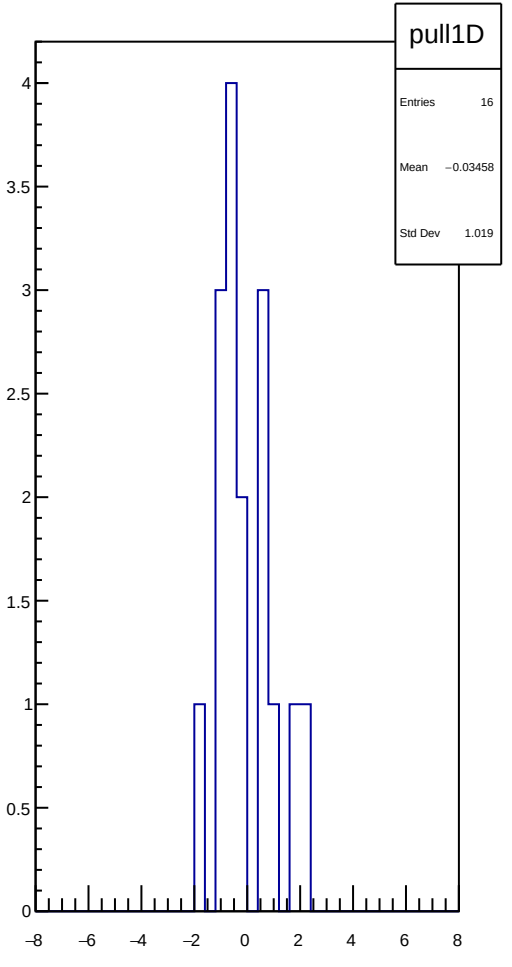

dit_asym_sam_37_dd_rms vs run
χ² / ndf 1.317e+04 / 15
p0 127 ± 0.2361
350
300
250
200
150
100
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

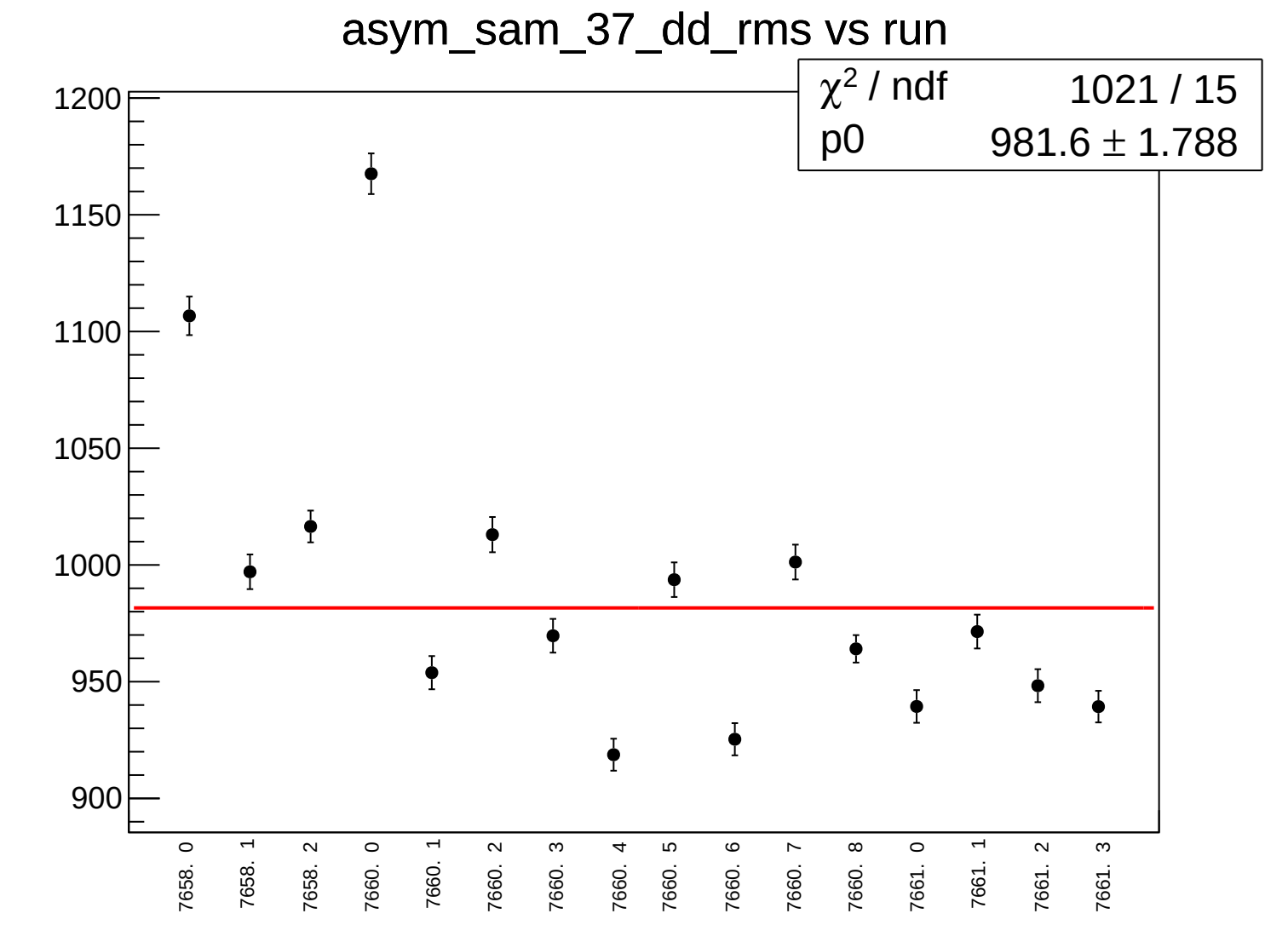

asym_sam_37_dd_correction_mean vs run
χ² / ndf 16.35 / 15
p0 −760.5 ± 2398
30000
20000
10000
0
−10000
−20000
−30000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −309.4
Std Dev 316
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

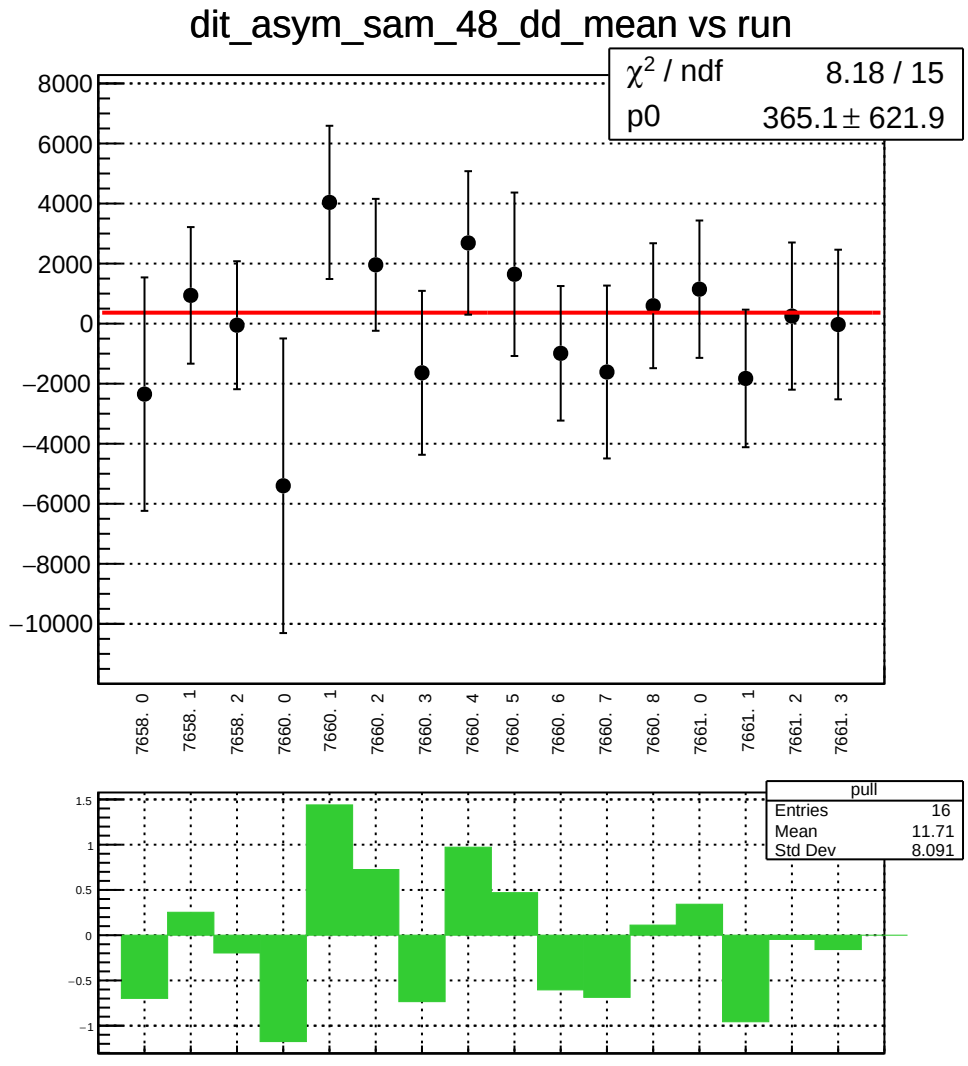

pull1D
Entries 16
Mean 0.004759
Std Dev 1.011
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

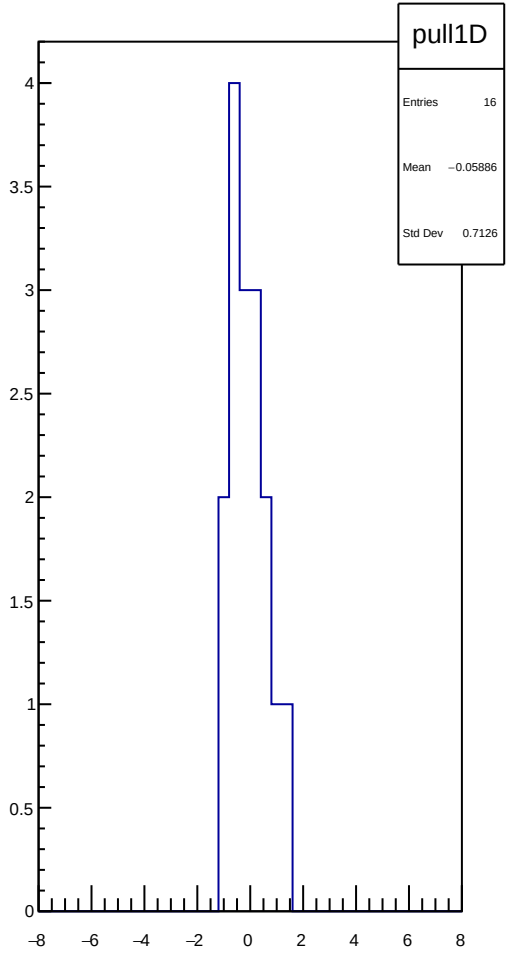

asym_sam_37_dd_correction_rms vs run
χ² / ndf 153.9 / 15
p0 932.3 ± 1.696
980
960
940
920
900
880
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

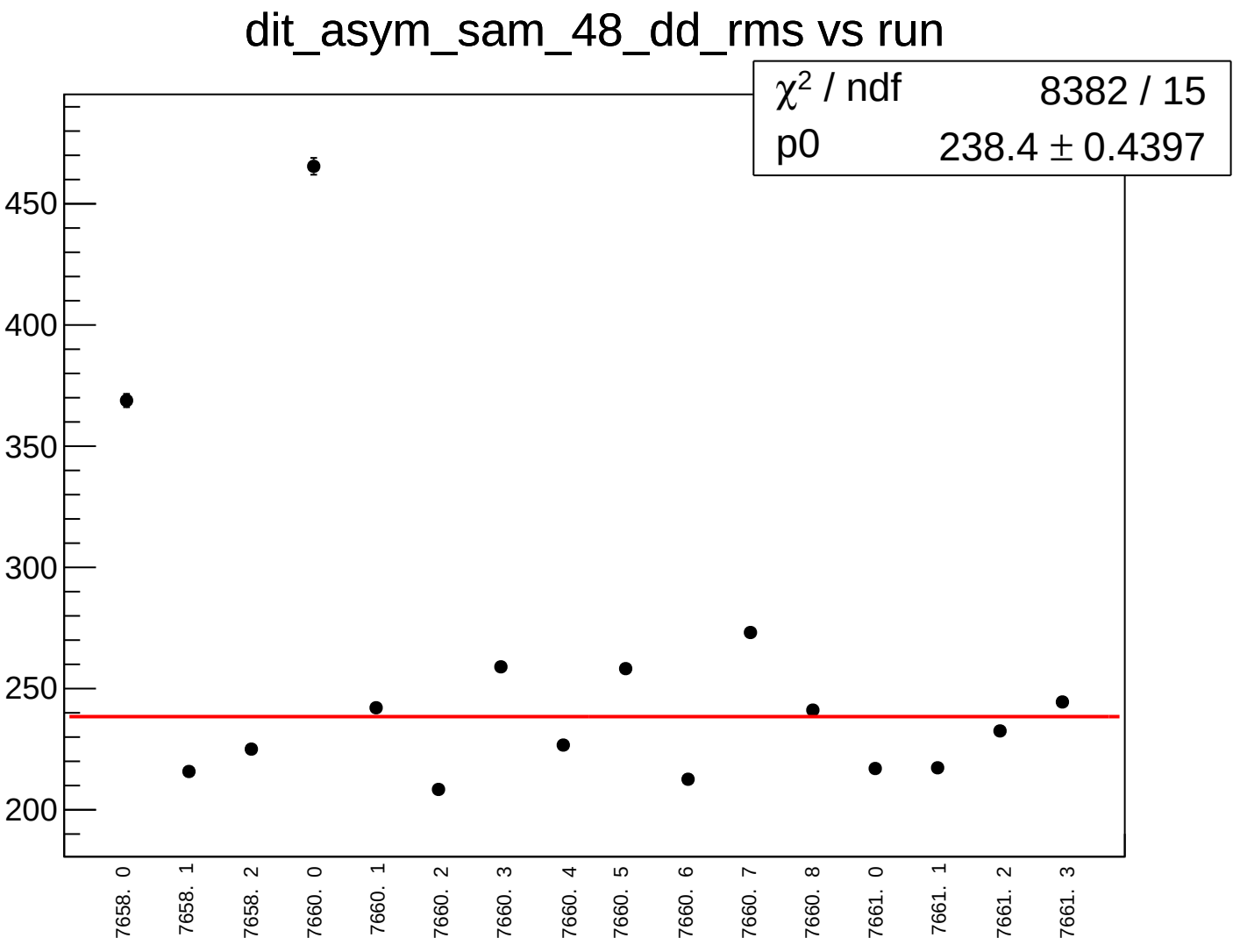

asym_sam_37_dd_mean vs run
χ² / ndf 16.62 / 15
p0 1291 ± 2529
40000
30000
20000
10000
0
−10000
−20000
−30000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −34.34
Std Dev 40.46
2
1.5
1
0.5
0
−0.5
−1
−1.5

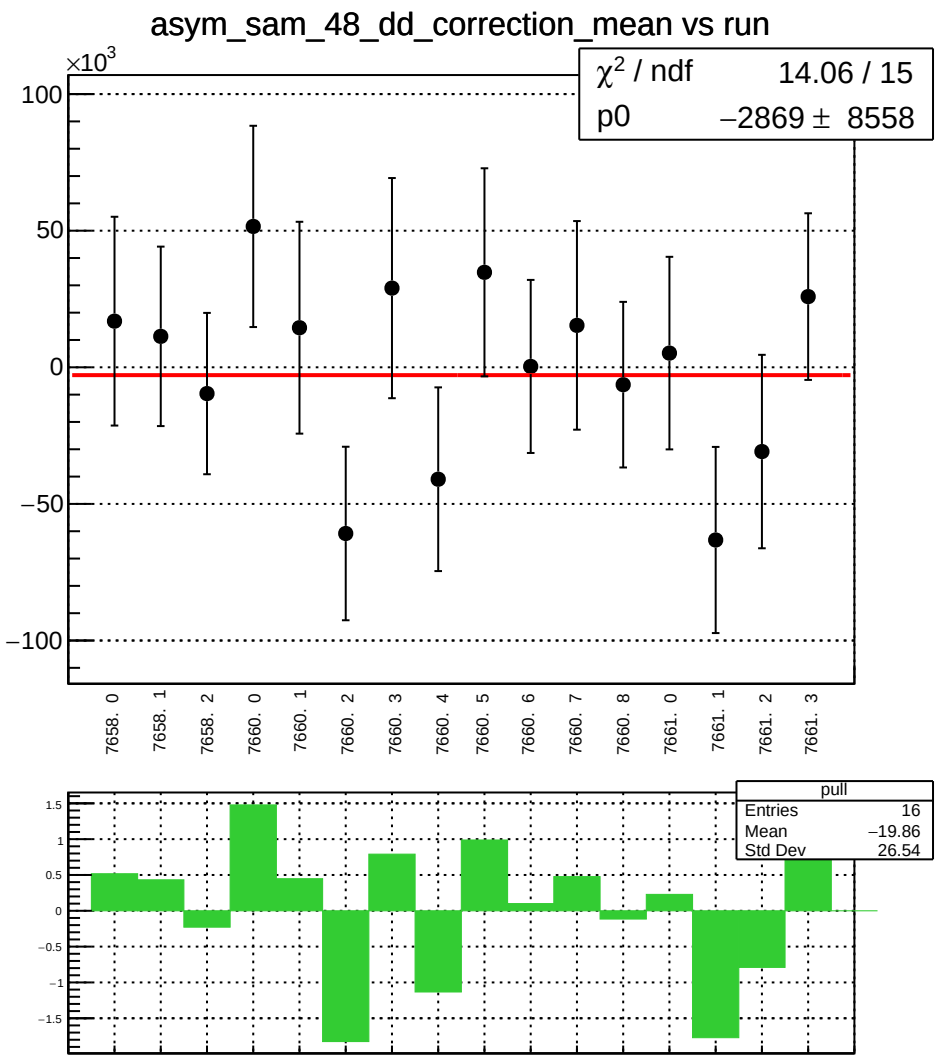

pull1D
Entries 16
Mean −0.03458
Std Dev 1.019
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

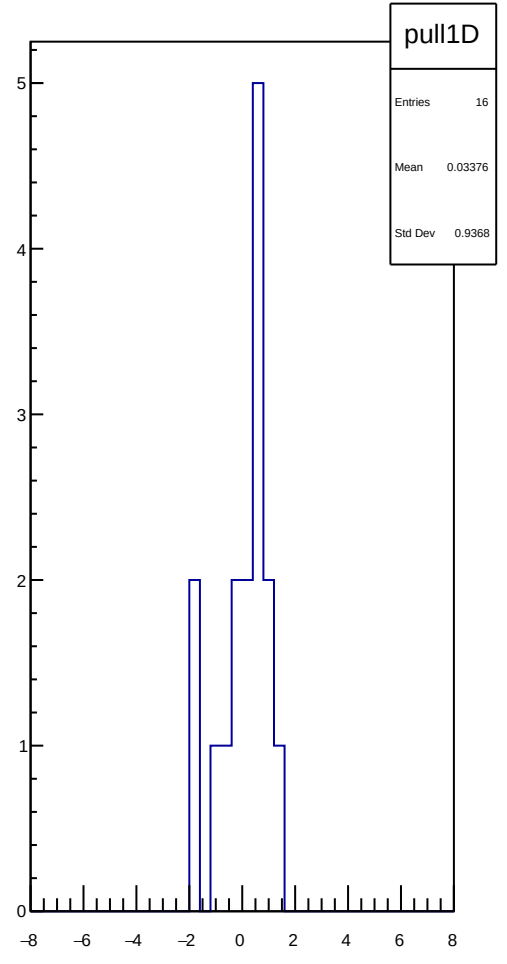

asym_sam_37_dd_rms vs run
χ² / ndf 1021 / 15
p0 981.6 ± 1.788
1200
1150
1100
1050
1000
950
900
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

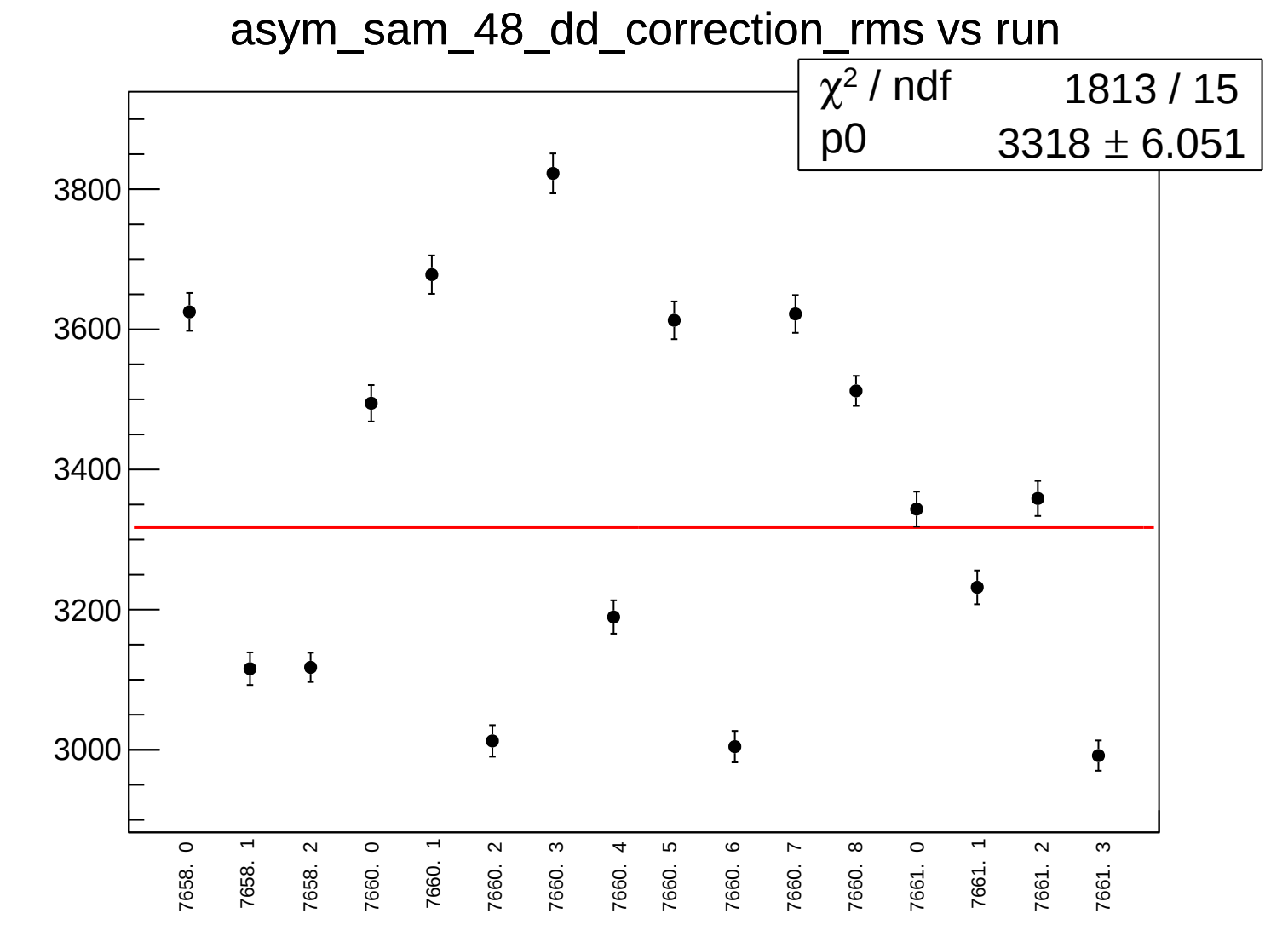

dit_asym_sam_48_dd_mean vs run
χ² / ndf 8.18 / 15
p0 365.1 ± 621.9
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 11.71
Std Dev 8.091
1.5
1
0.5
0
−0.5
−1

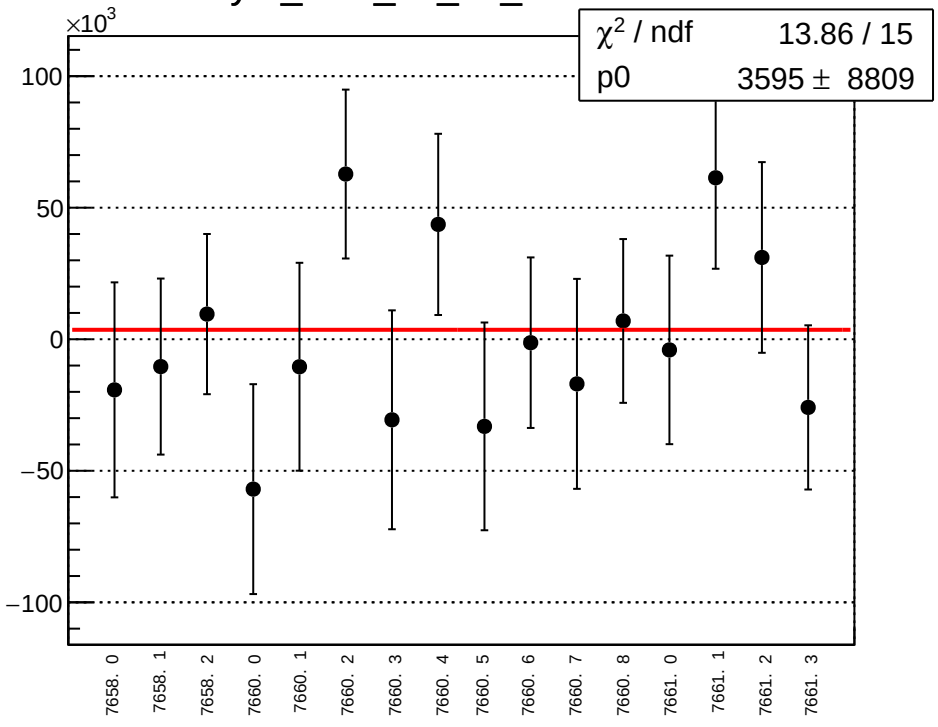

pull1D
Entries 16
Mean −0.05886
Std Dev 0.7126
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

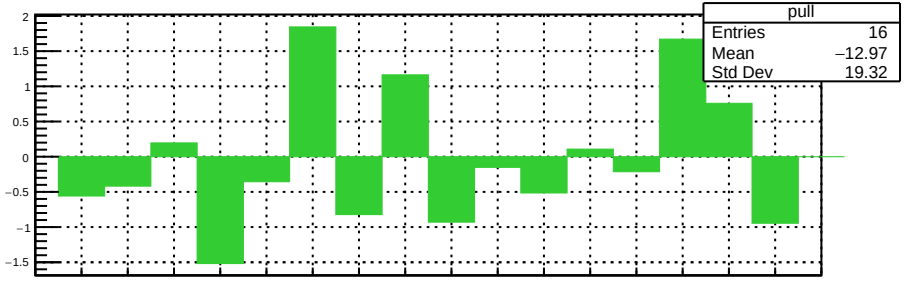

dit_asym_sam_48_dd_rms vs run
χ² / ndf 8382 / 15
p0 238.4 ± 0.4397
450
400
350
300
250
200
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

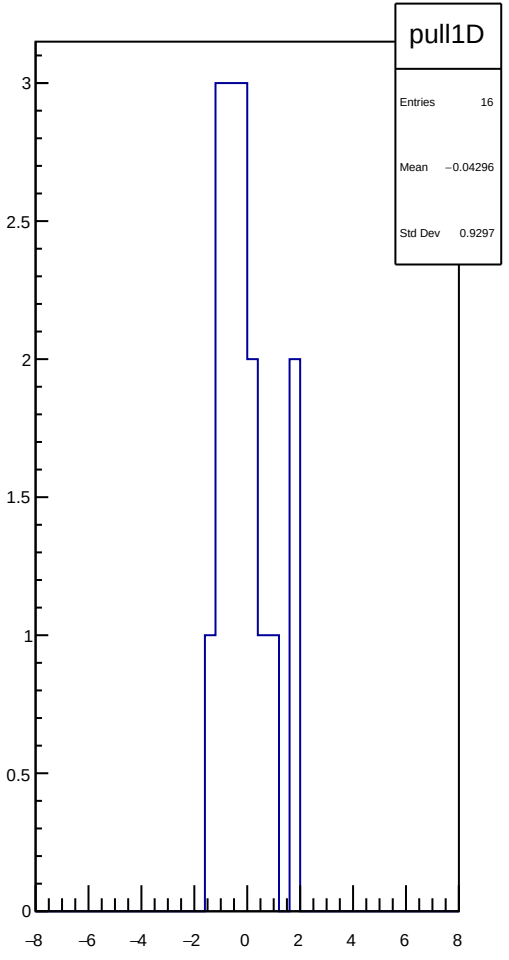

asym_sam_48_dd_correction_mean vs run
×10^3
χ^2 / ndf 14.06 / 15
p0 −2869 ± 8558
100
50
0
−50
−100
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −19.86
Std Dev 26.54
1.5
1
0.5
0
−0.5
−1
−1.5

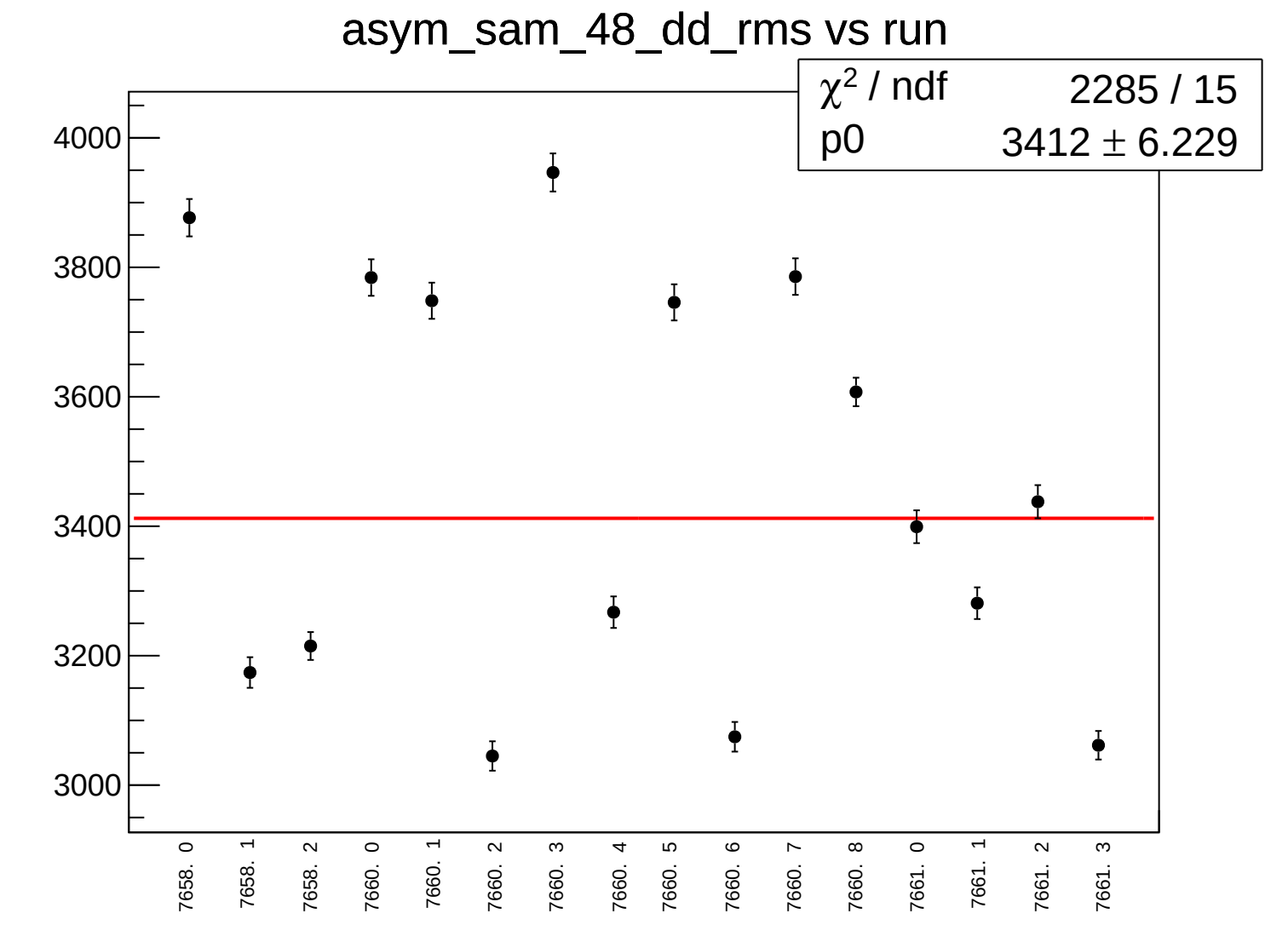

pull1D
Entries 16
Mean 0.03376
Std Dev 0.9368
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

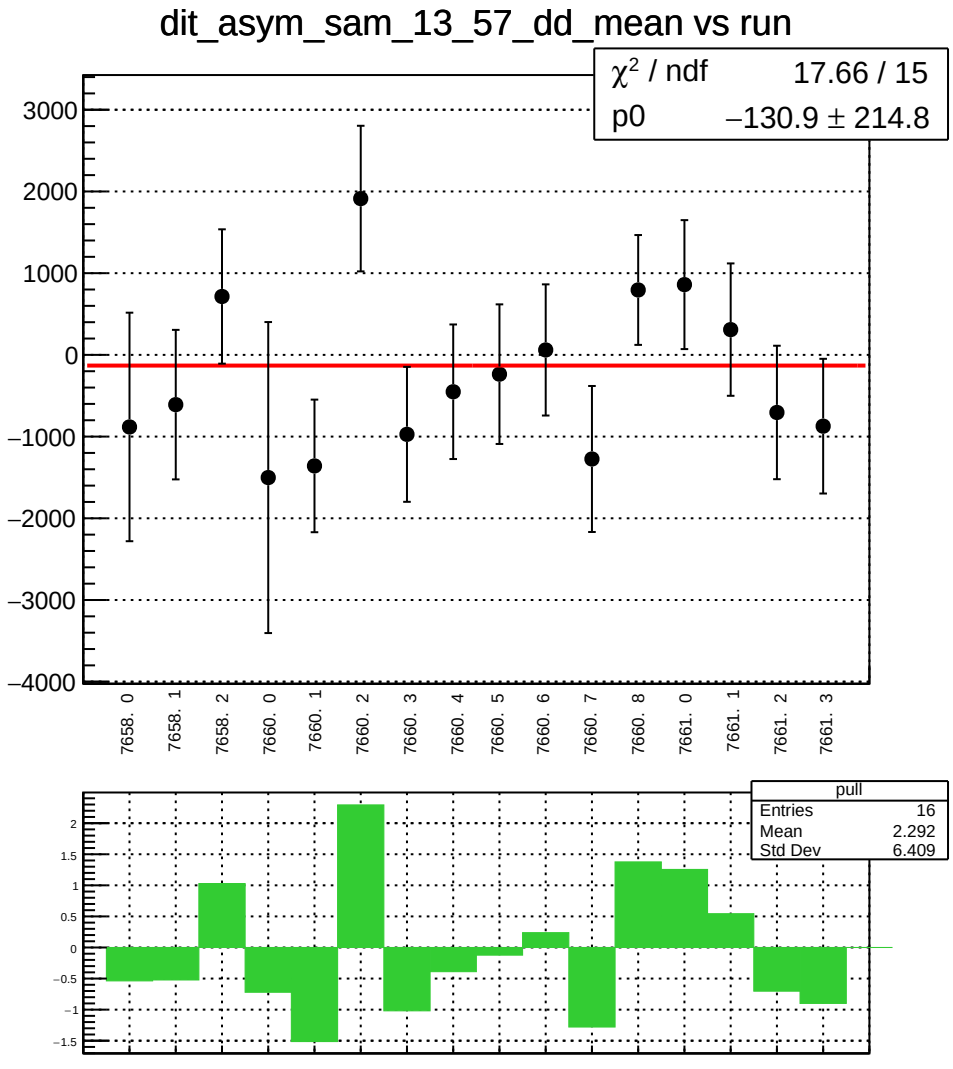

asym_sam_48_dd_correction_rms vs run
χ² / ndf 1813 / 15
p0 3318 ± 6.051
3800
3600
3400
3200
3000
17658. 0
17658. 1
17658. 2
17660. 0
17660. 1
17660. 2
17660. 3
17660. 4
17660. 5
17660. 6
17660. 7
17660. 8
17661. 0
17661. 1
17661. 2
17661. 3

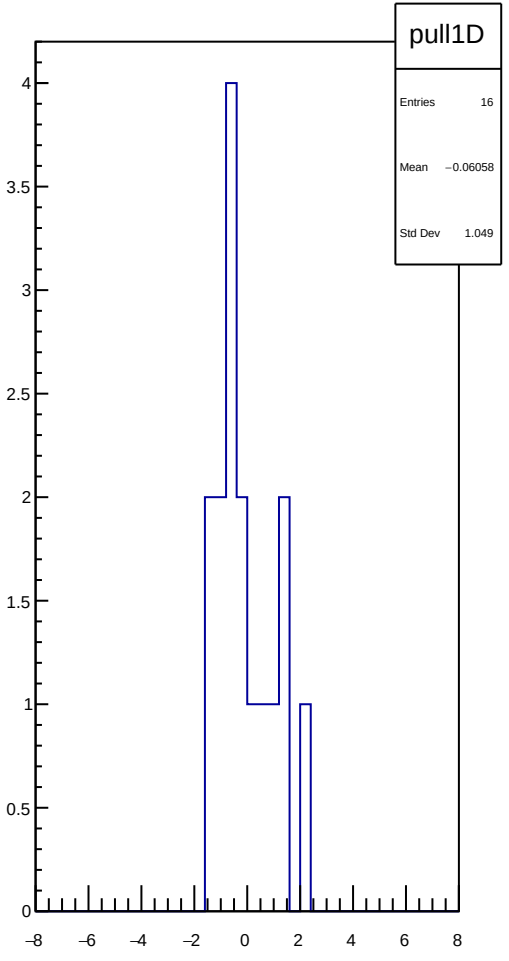

asym_sam_48_dd_mean vs run
×10^3
χ^2 / ndf 13.86 / 15
p0 3595 ± 8809
100
50
0
−50
−100
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

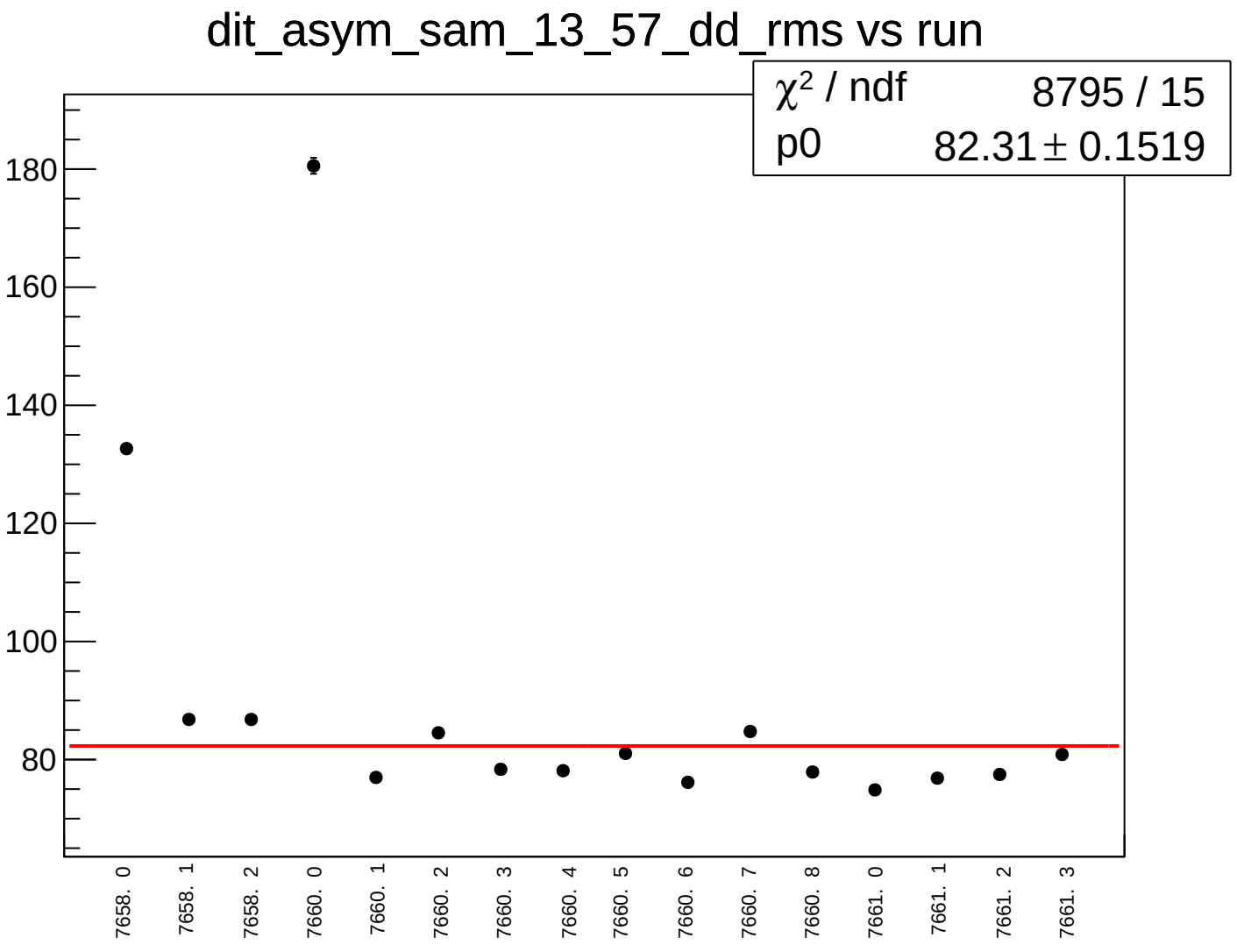

pull
Entries 16
Mean −12.97
Std Dev 19.32
2
1.5
1
0.5
0
−0.5
−1
−1.5

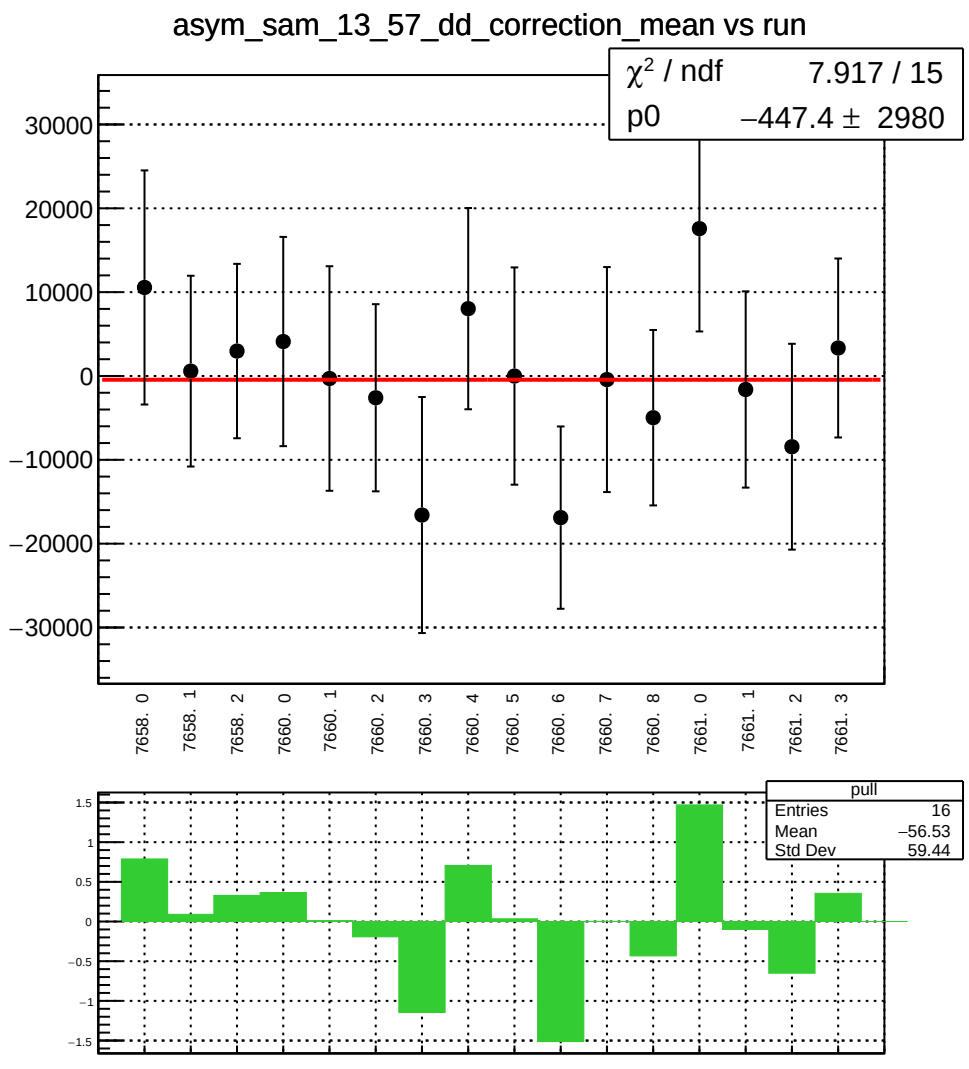

pull1D
Entries 16
Mean −0.04296
Std Dev 0.9297
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

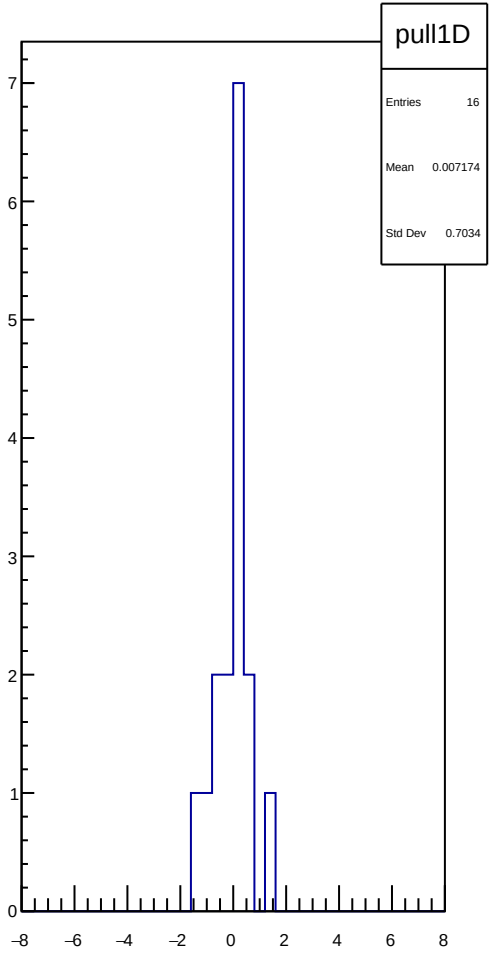

asym_sam_48_dd_rms vs run
χ² / ndf 2285 / 15
p0 3412 ± 6.229
4000
3800
3600
3400
3200
3000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

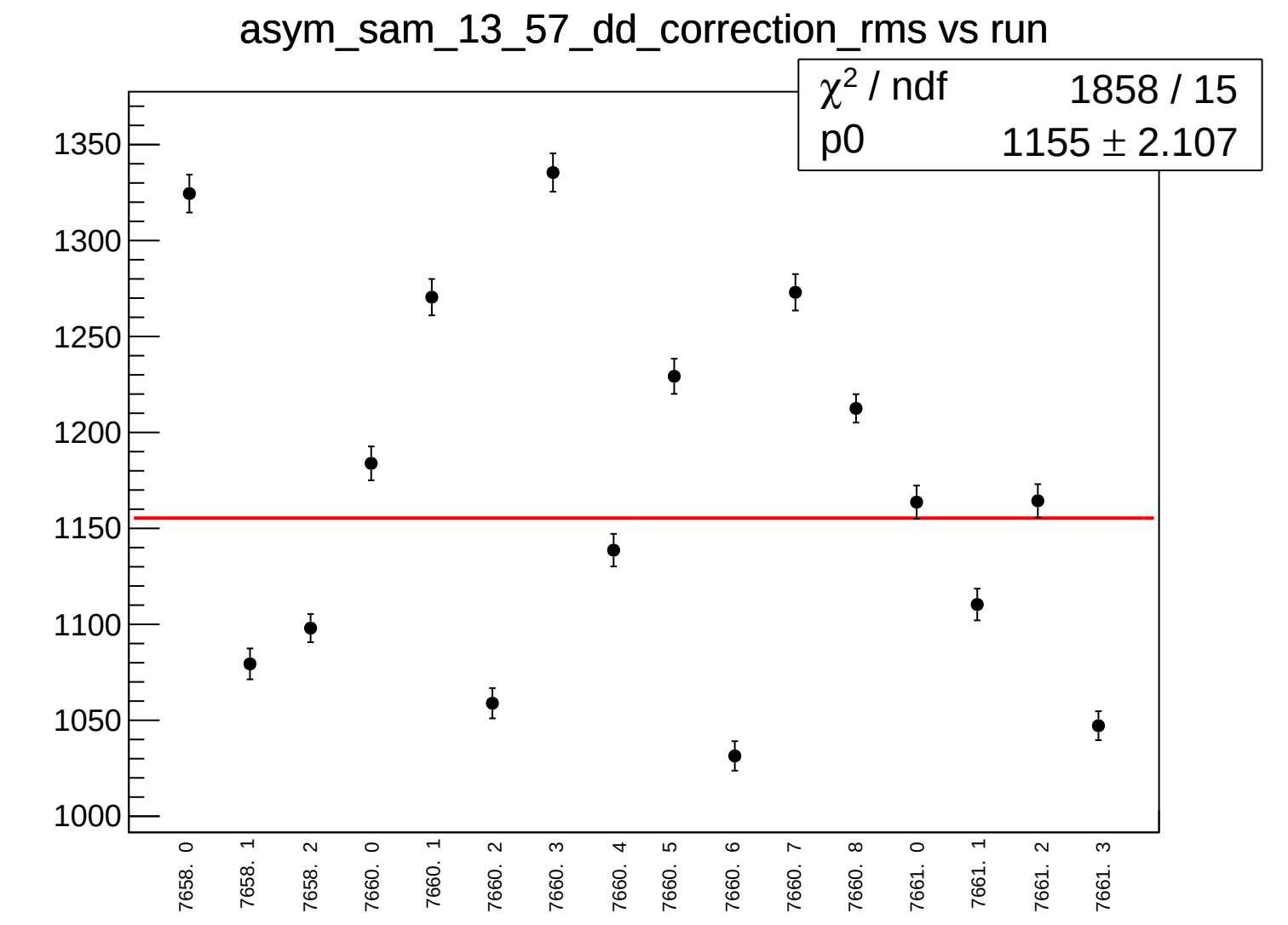

dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 17.66 / 15
p0 −130.9 ± 214.8
3000
2000
1000
0
−1000
−2000
−3000
−4000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 2.292
Std Dev 6.409
2
1.5
1
0.5
0
−0.5
−1
−1.5

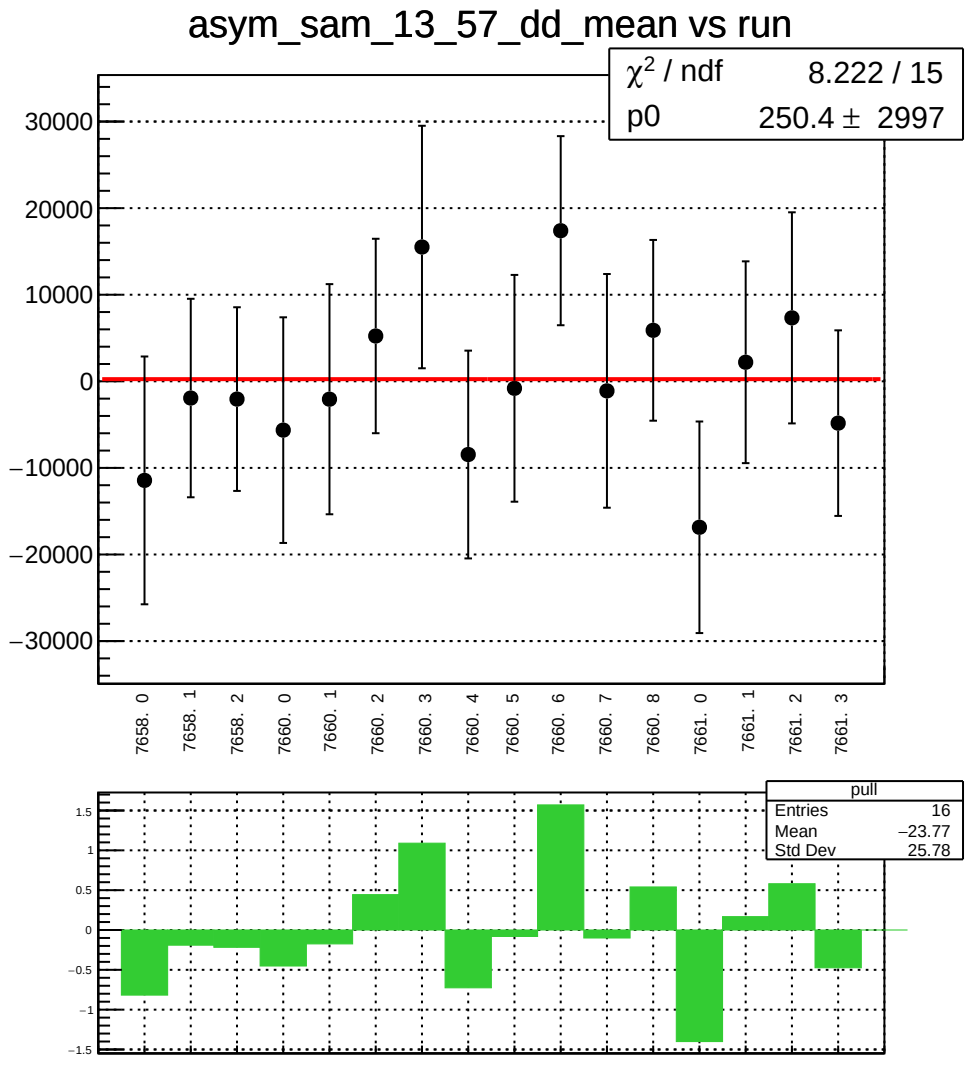

pull1D
Entries 16
Mean −0.06058
Std Dev 1.049
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

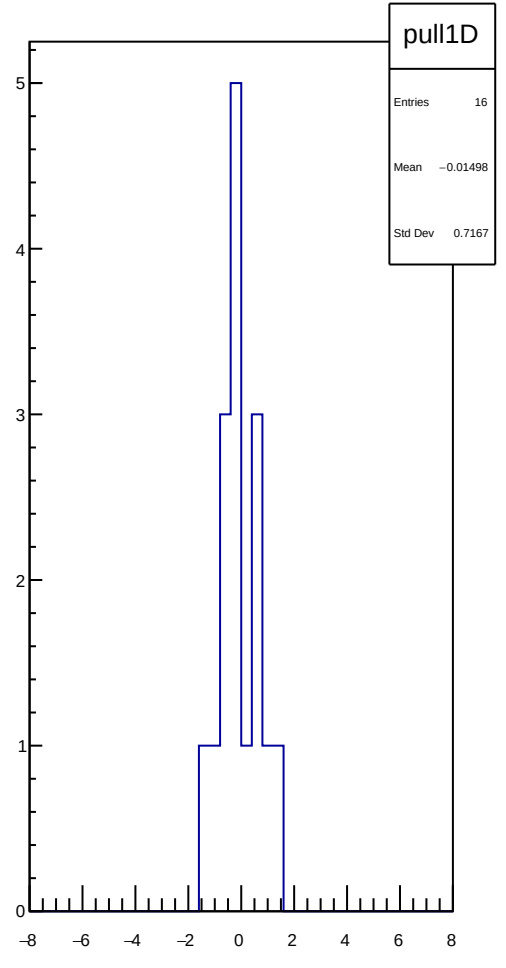

dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 8795 / 15
p0 82.31 ± 0.1519
180
160
140
120
100
80
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

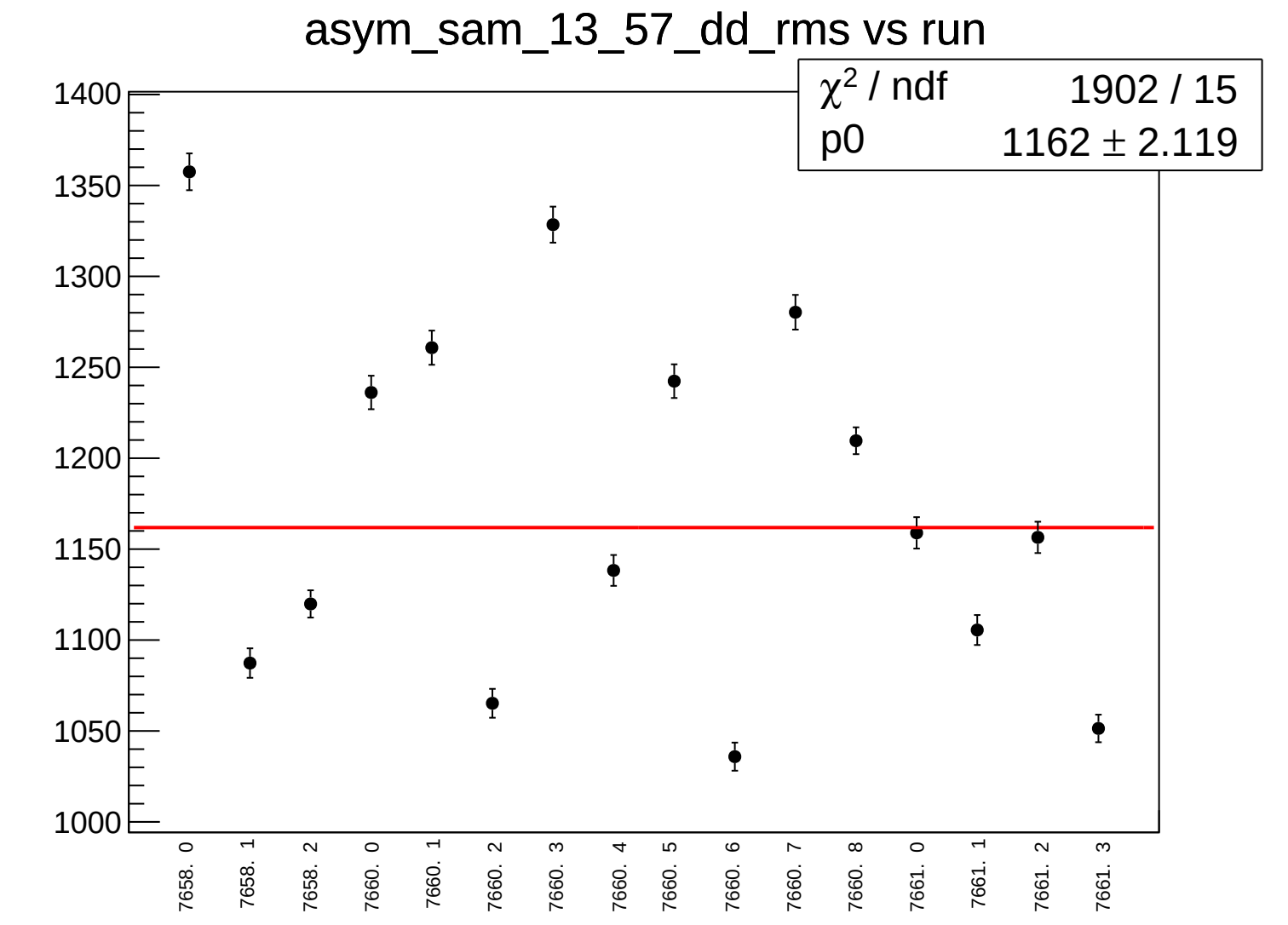

asym_sam_13_57_dd_correction_mean vs run
χ² / ndf 7.917 / 15
p0 −447.4 ± 2980
30000
20000
10000
0
−10000
−20000
−30000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −56.53
Std Dev 59.44
1.5
1
0.5
0
−0.5
−1
−1.5

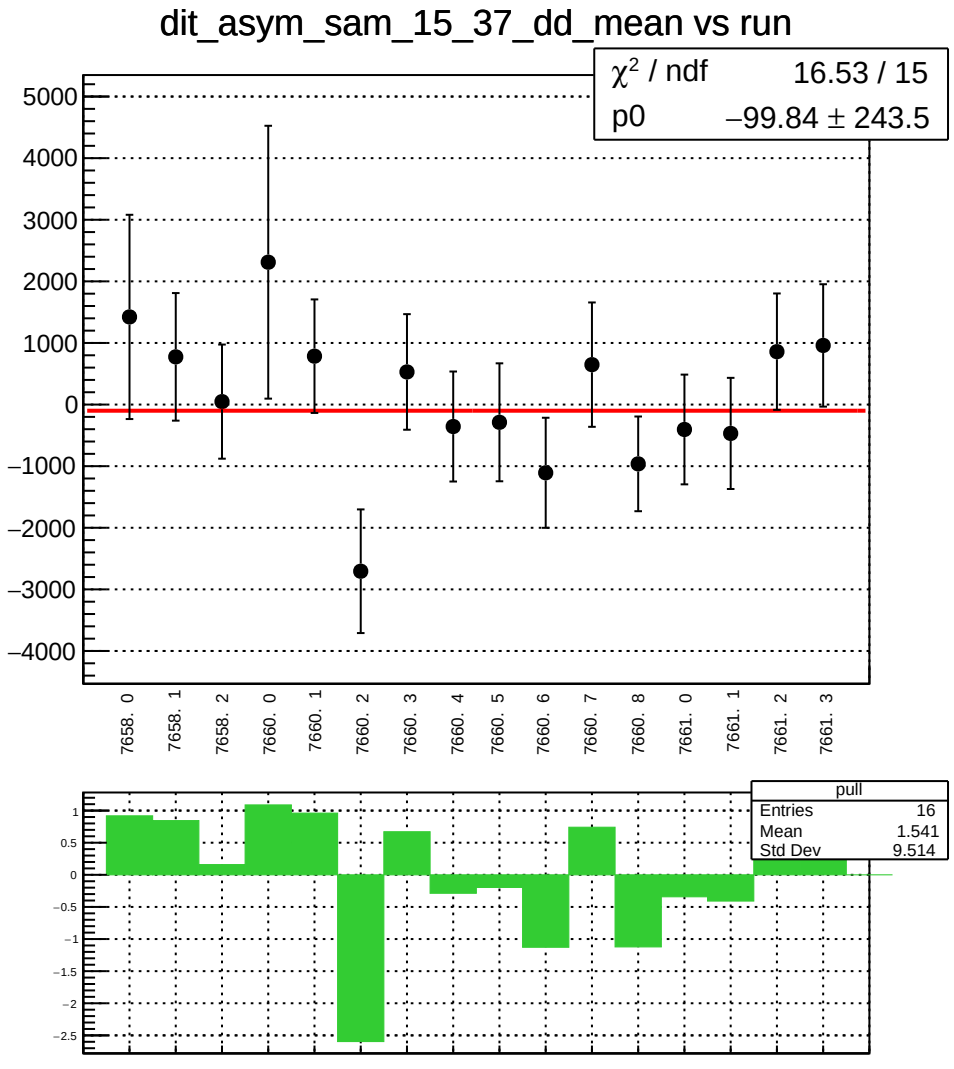

pull1D
Entries 16
Mean 0.007174
Std Dev 0.7034
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

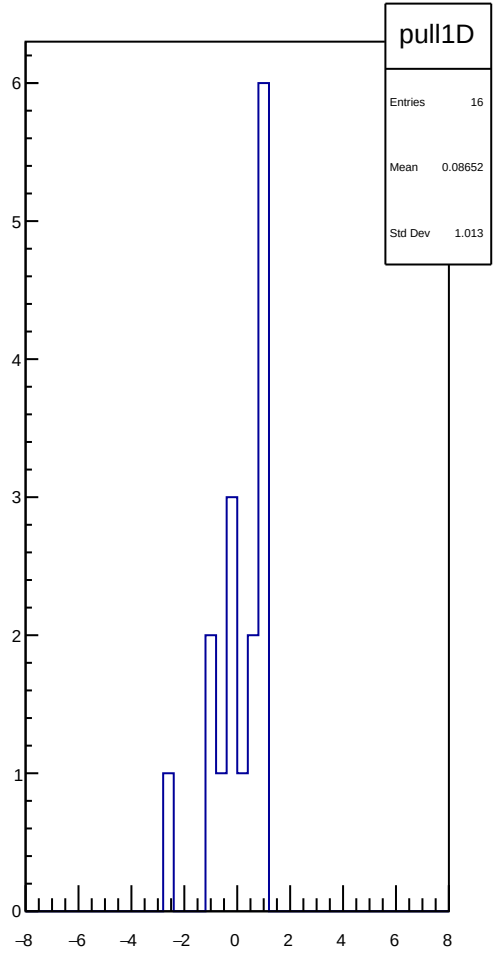

asym_sam_13_57_dd_correction_rms vs run
χ² / ndf 1858 / 15
p0 1155 ± 2.107
1350
1300
1250
1200
1150
1100
1050
1000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

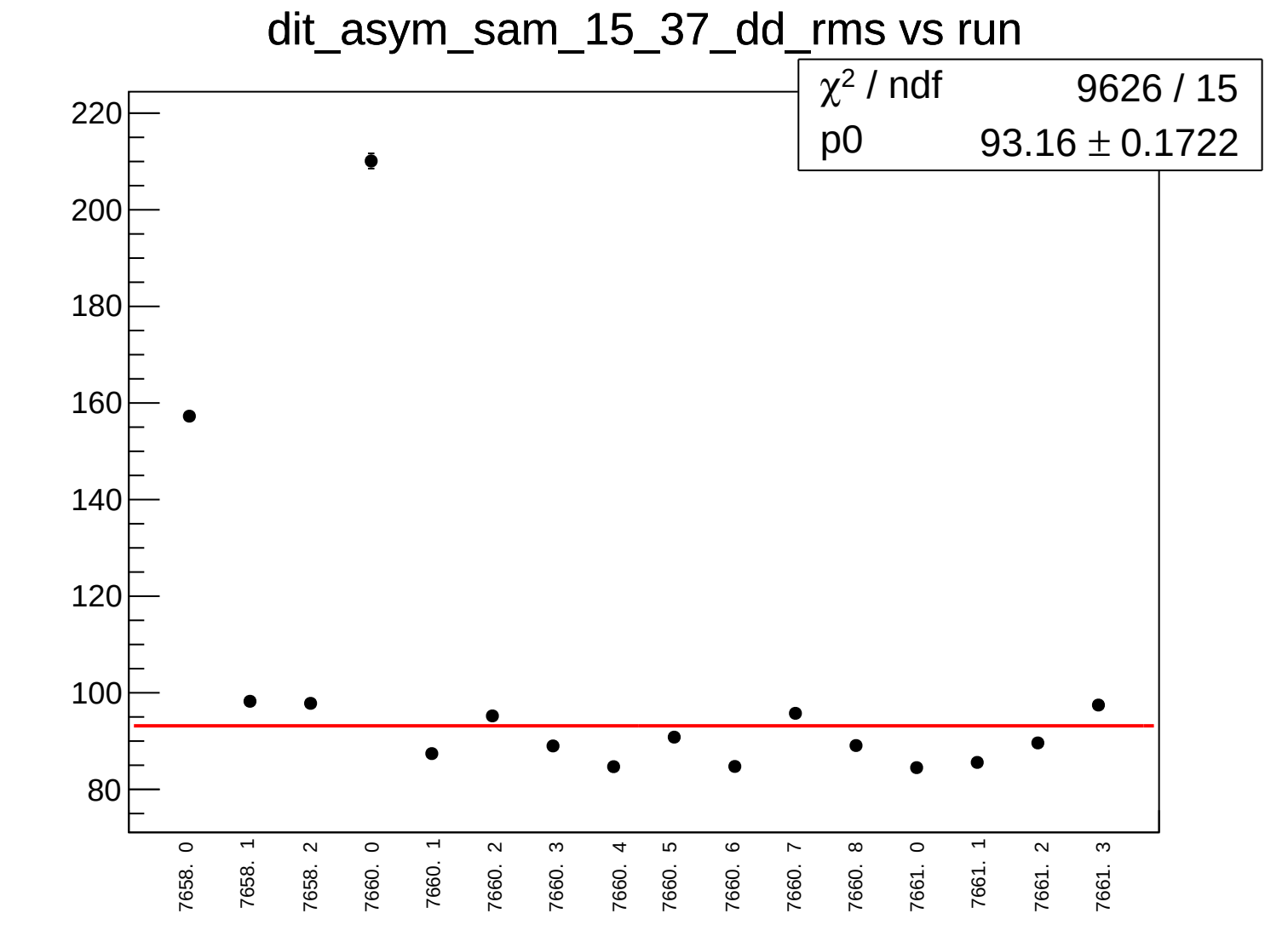

asym_sam_13_57_dd_mean vs run
χ² / ndf 8.222 / 15
p0 250.4 ± 2997
30000
20000
10000
0
−10000
−20000
−30000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −23.77
Std Dev 25.78
1.5
1
0.5
0
−0.5
−1
−1.5

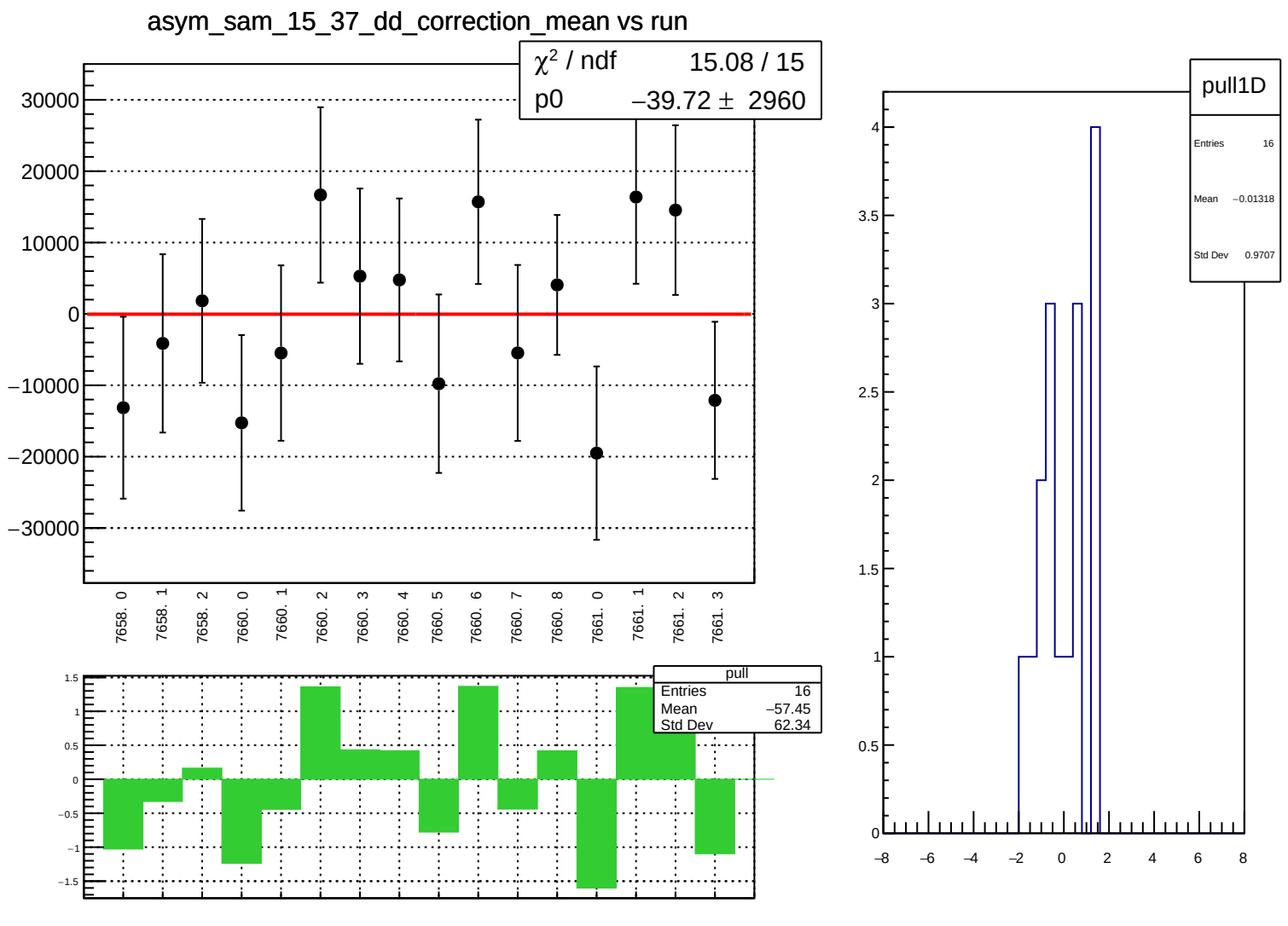

pull1D
Entries 16
Mean −0.01498
Std Dev 0.7167
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

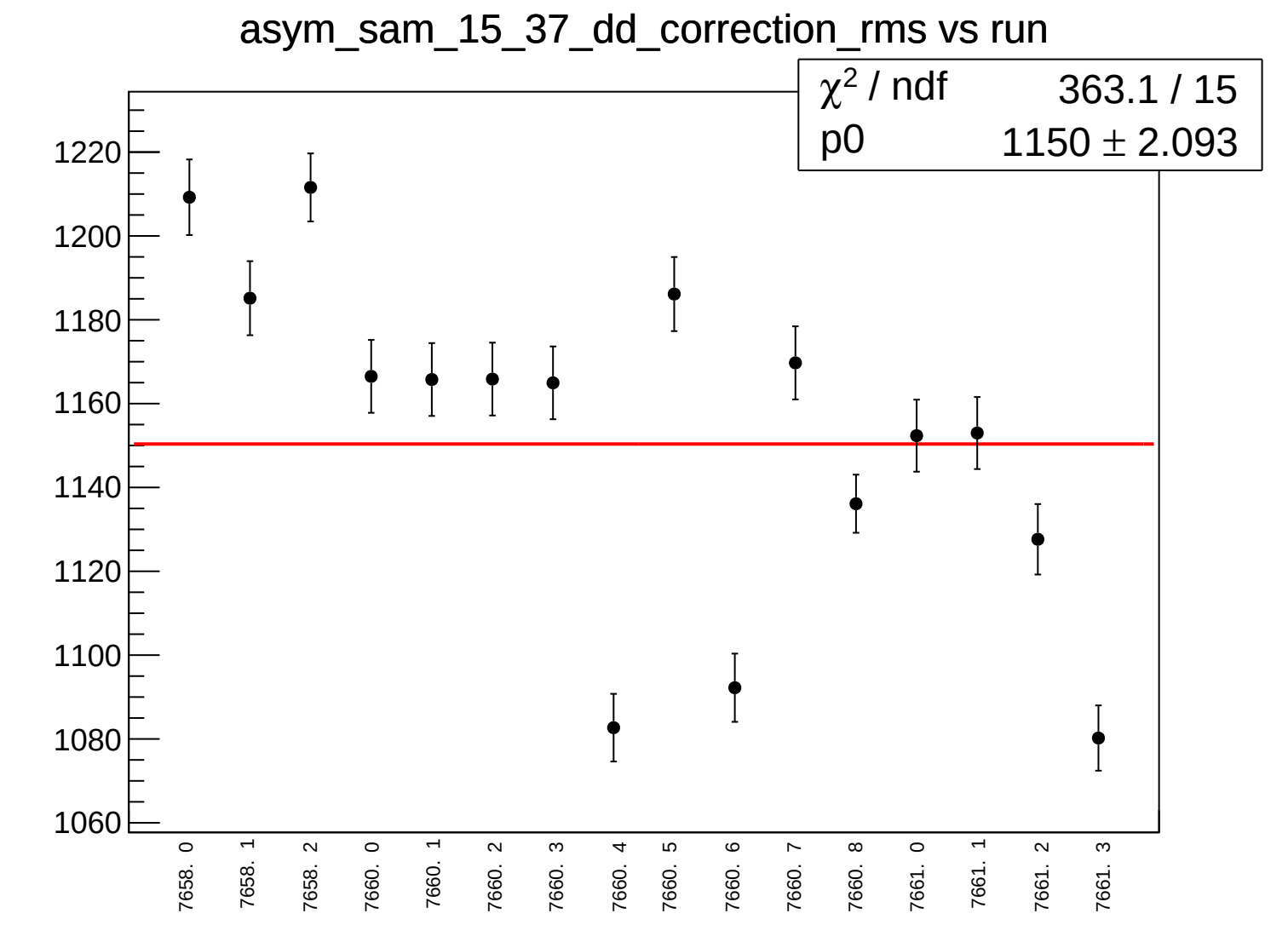

asym_sam_13_57_dd_rms vs run
χ² / ndf 1902 / 15
p0 1162 ± 2.119
1400
1350
1300
1250
1200
1150
1100
1050
1000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

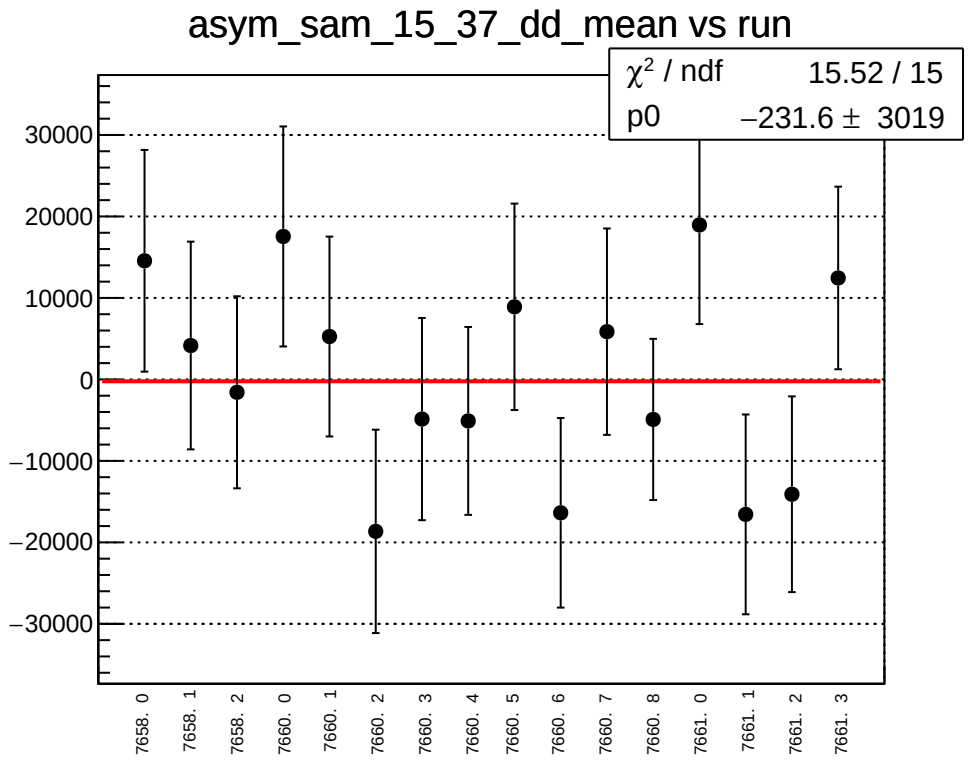

dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 16.53 / 15
p0 −99.84 ± 243.5
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 1.541
Std Dev 9.514
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

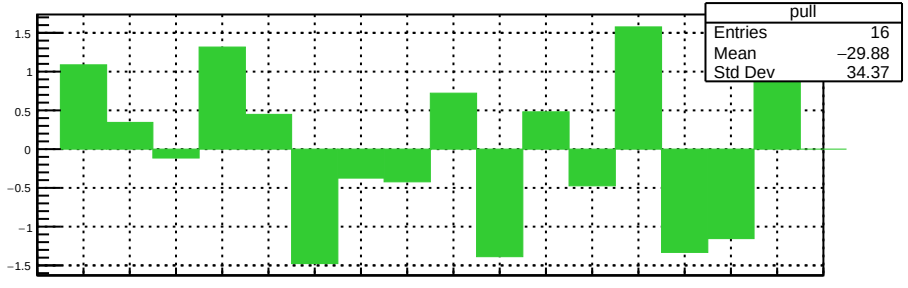

pull1D
Entries 16
Mean 0.08652
Std Dev 1.013
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

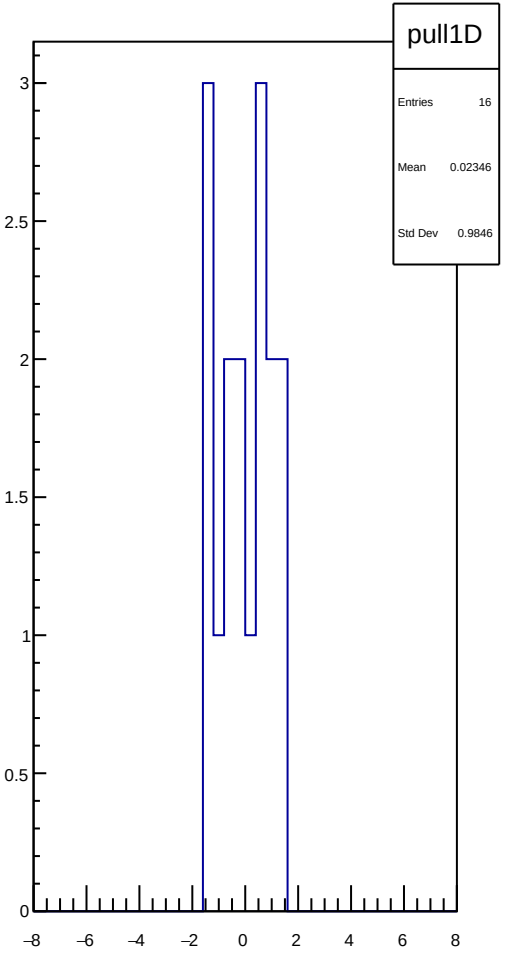

dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 9626 / 15
p0 93.16 ± 0.1722
220
200
180
160
140
120
100
80
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

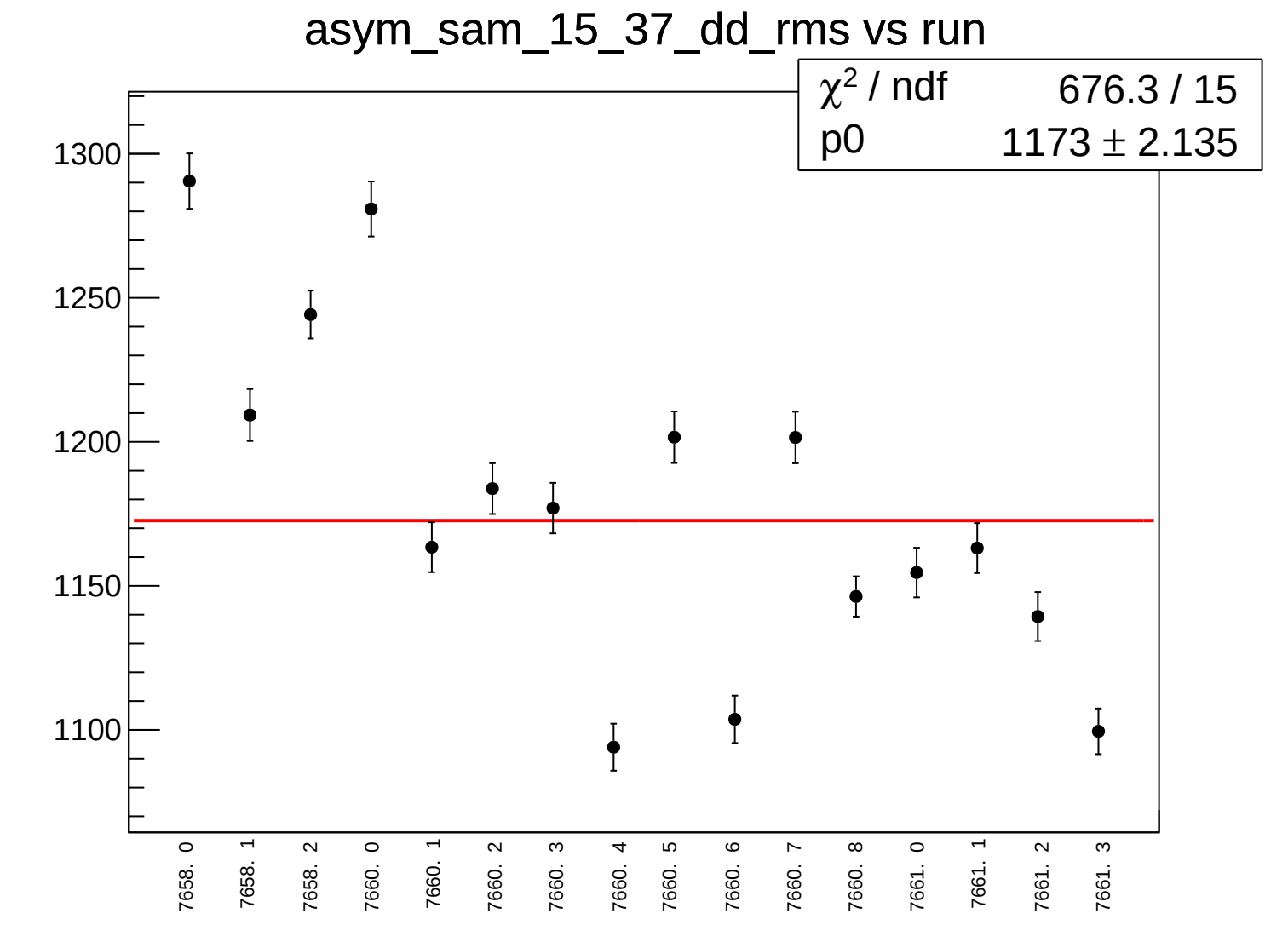

asym_sam_15_37_dd_correction_mean vs run
χ² / ndf 15.08 / 15
p0 −39.72 ± 2960
30000
20000
10000
0
−10000
−20000
−30000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −57.45
Std Dev 62.34
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 16
Mean −0.01318
Std Dev 0.9707
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

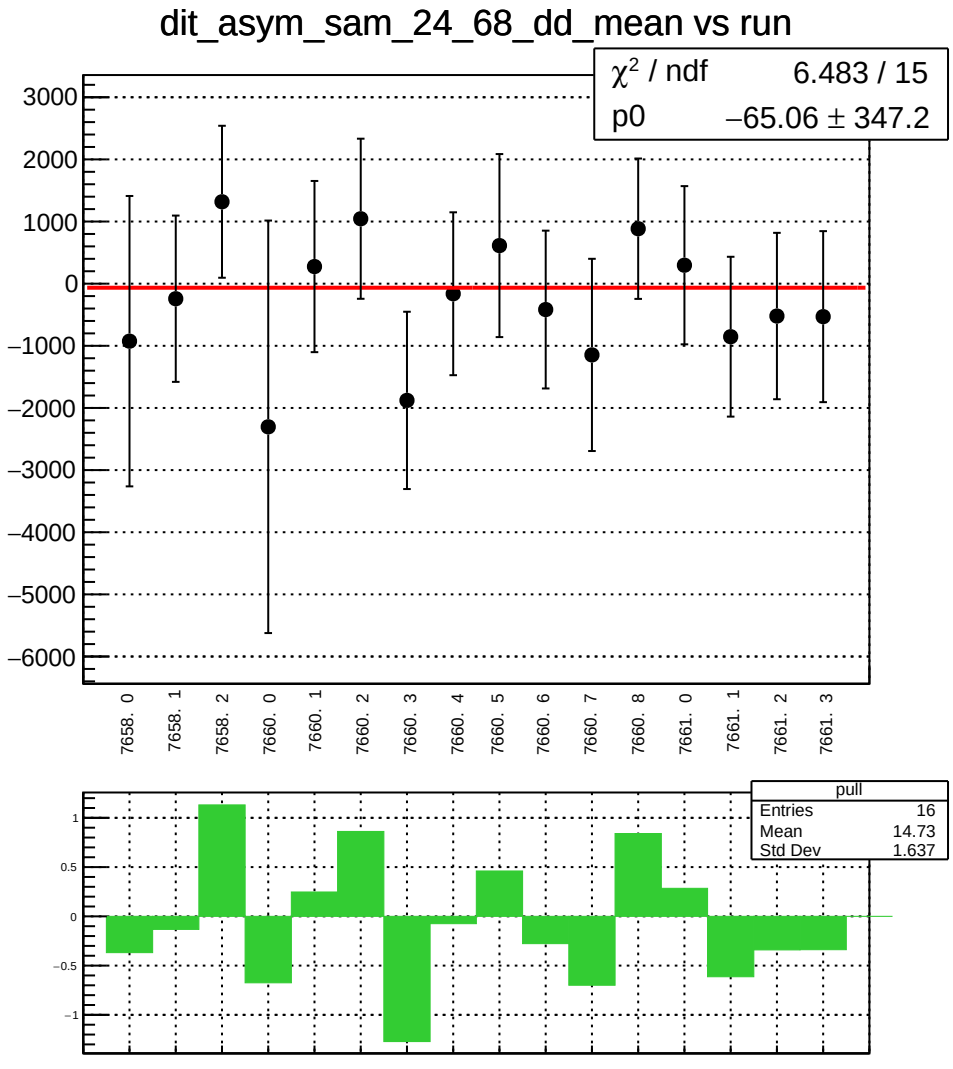

asym_sam_15_37_dd_correction_rms vs run
χ² / ndf 363.1 / 15
p0 1150 ± 2.093
1220
1200
1180
1160
1140
1120
1100
1080
1060
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

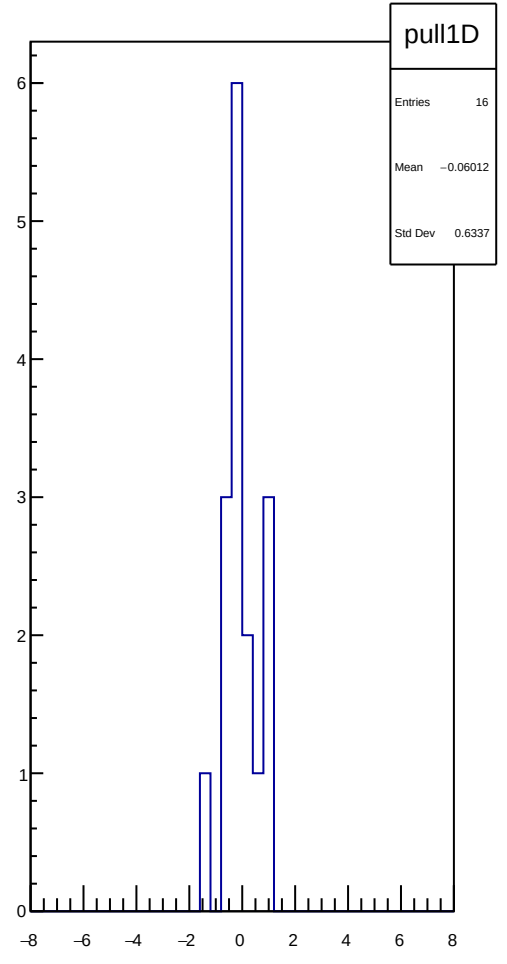

asym_sam_15_37_dd_mean vs run
χ² / ndf 15.52 / 15
p0 −231.6 ± 3019
30000
20000
10000
0
−10000
−20000
−30000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

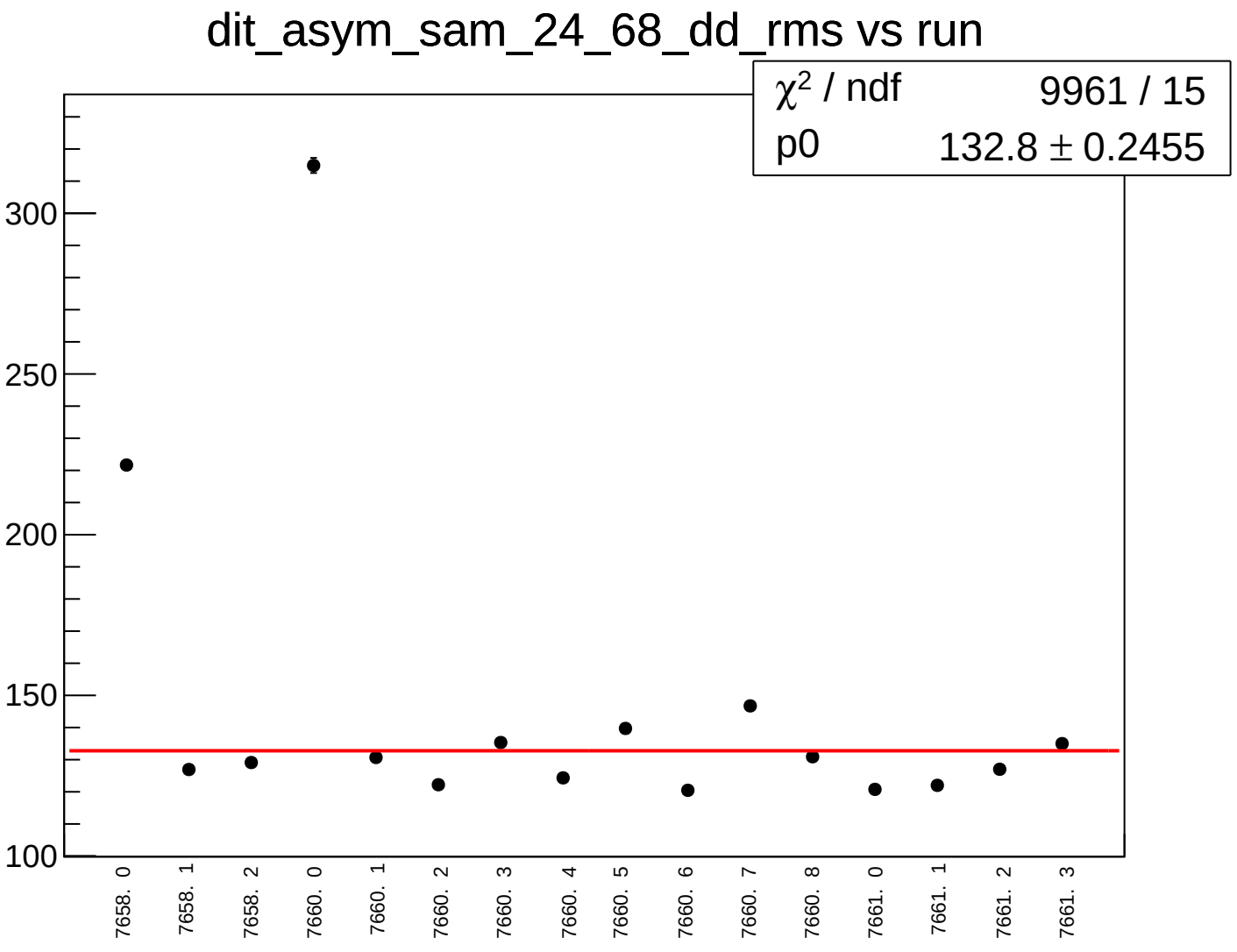

pull
Entries 16
Mean −29.88
Std Dev 34.37
1.5
1
0.5
0
−0.5
−1
−1.5

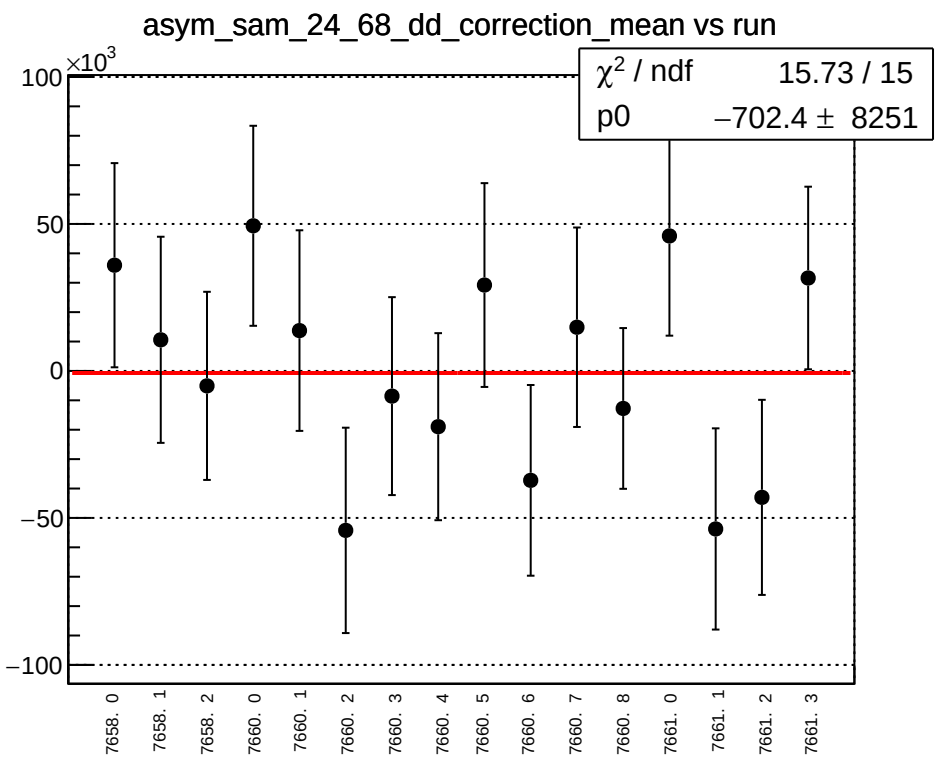

pull1D
Entries 16
Mean 0.02346
Std Dev 0.9846
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

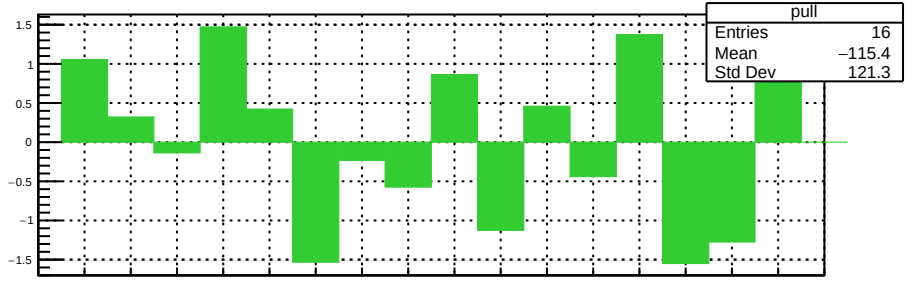

asym_sam_15_37_dd_rms vs run
χ² / ndf 676.3 / 15
p0 1173 ± 2.135
1300
1250
1200
1150
1100
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

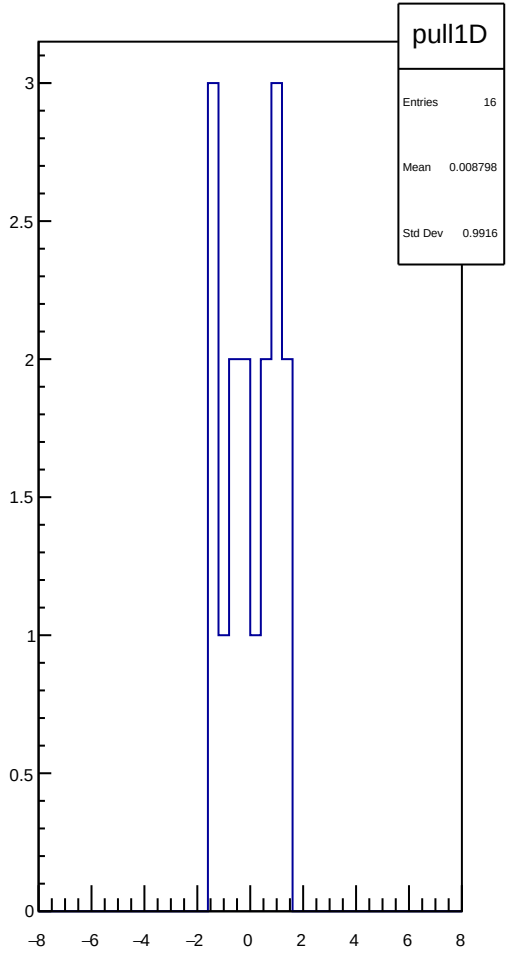

dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 6.483 / 15
p0 −65.06 ± 347.2
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
−6000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 14.73
Std Dev 1.637
1
0.5
0
−0.5
−1

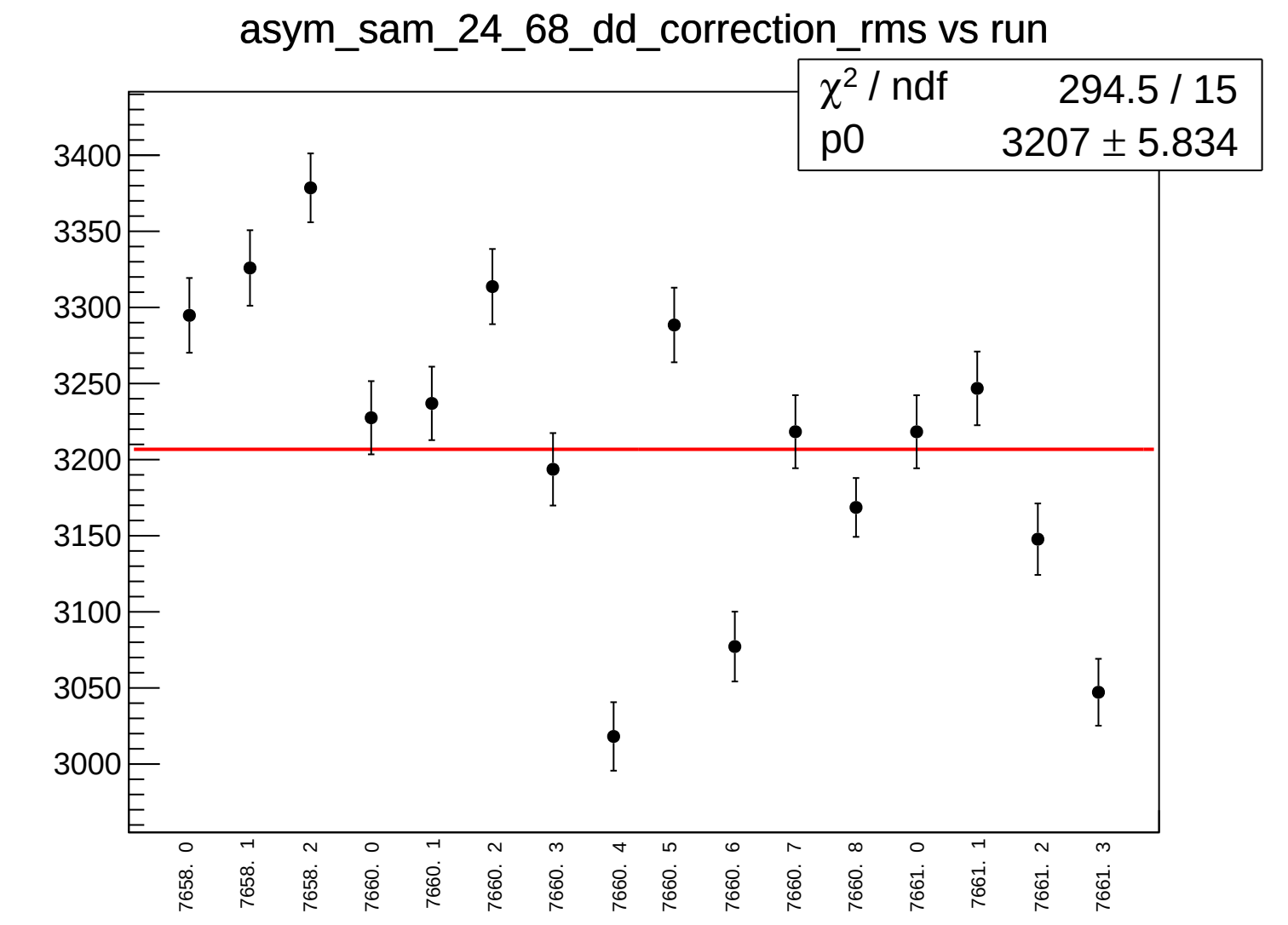

pull1D
Entries 16
Mean −0.06012
Std Dev 0.6337
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

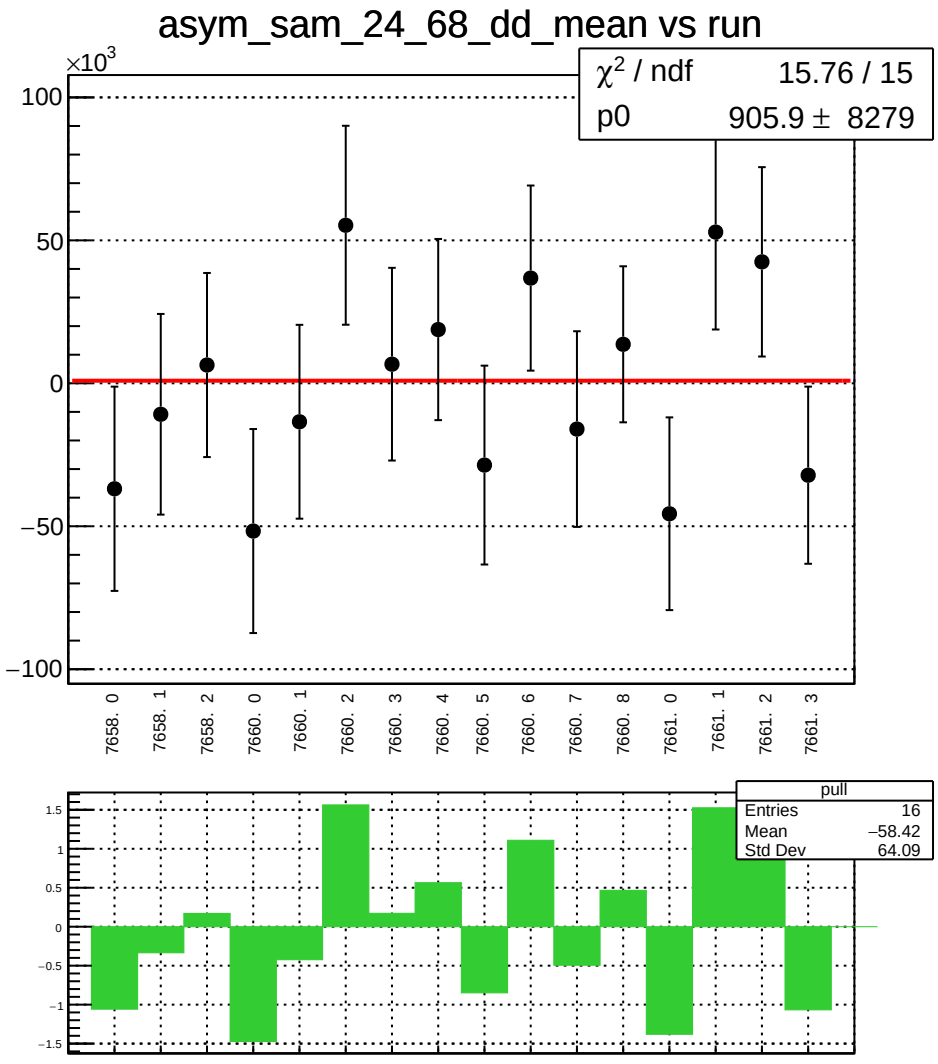

dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 9961 / 15
p0 132.8 ± 0.2455
300
250
200
150
100
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

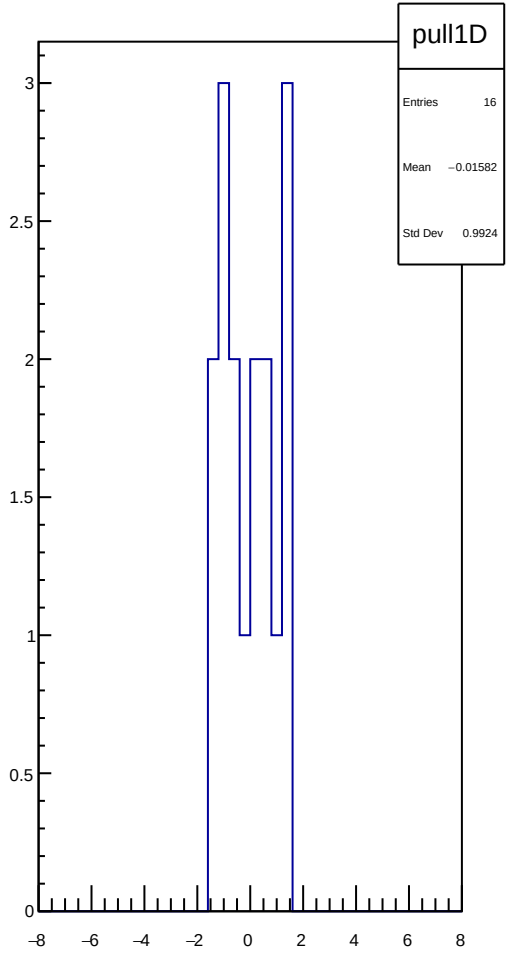

asym_sam_24_68_dd_correction_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 15.73 / 15
p0 −702.4 ± 8251
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

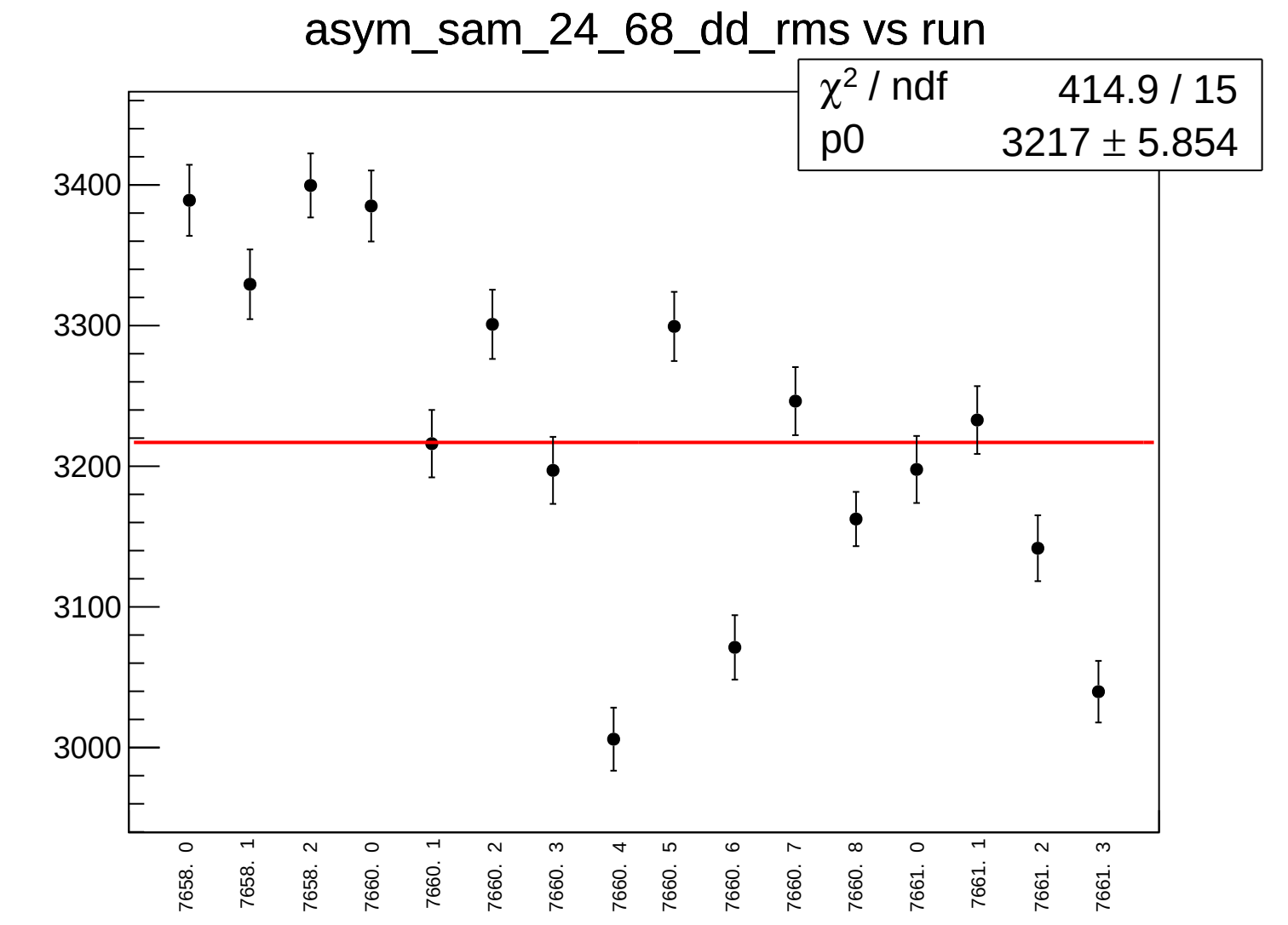

pull
Entries 16
Mean −115.4
Std Dev 121.3
1.5
1
0.5
0
−0.5
−1
−1.5

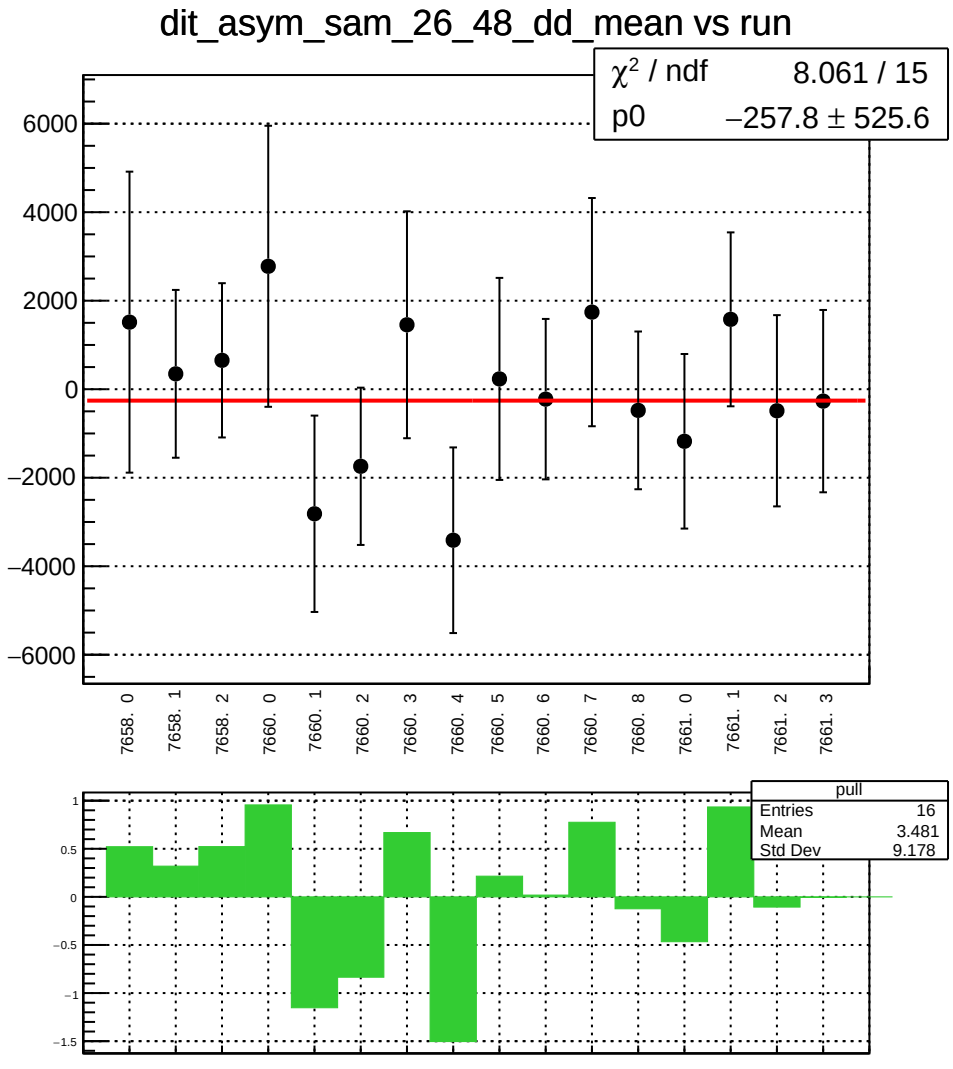

pull1D
Entries 16
Mean 0.008798
Std Dev 0.9916
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

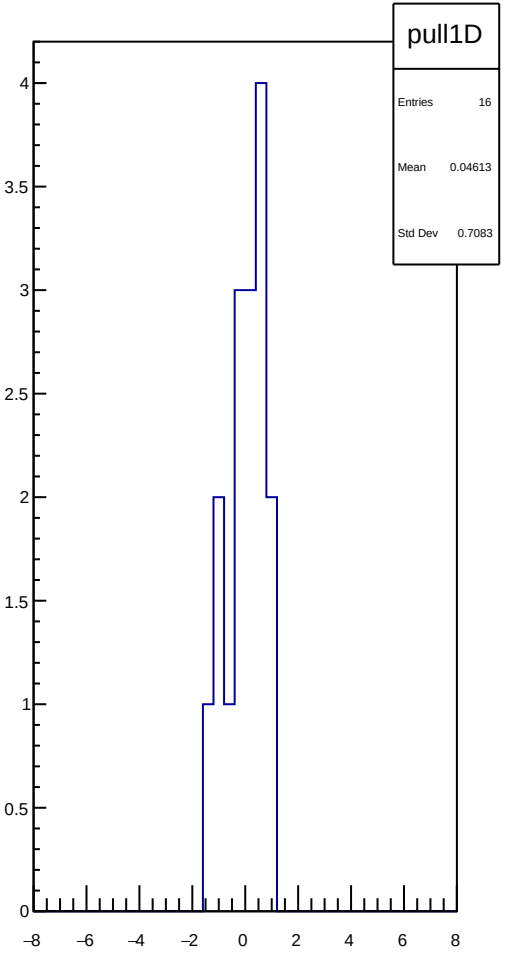

asym_sam_24_68_dd_correction_rms vs run
χ² / ndf 294.5 / 15
p0 3207 ± 5.834
3400
3350
3300
3250
3200
3150
3100
3050
3000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

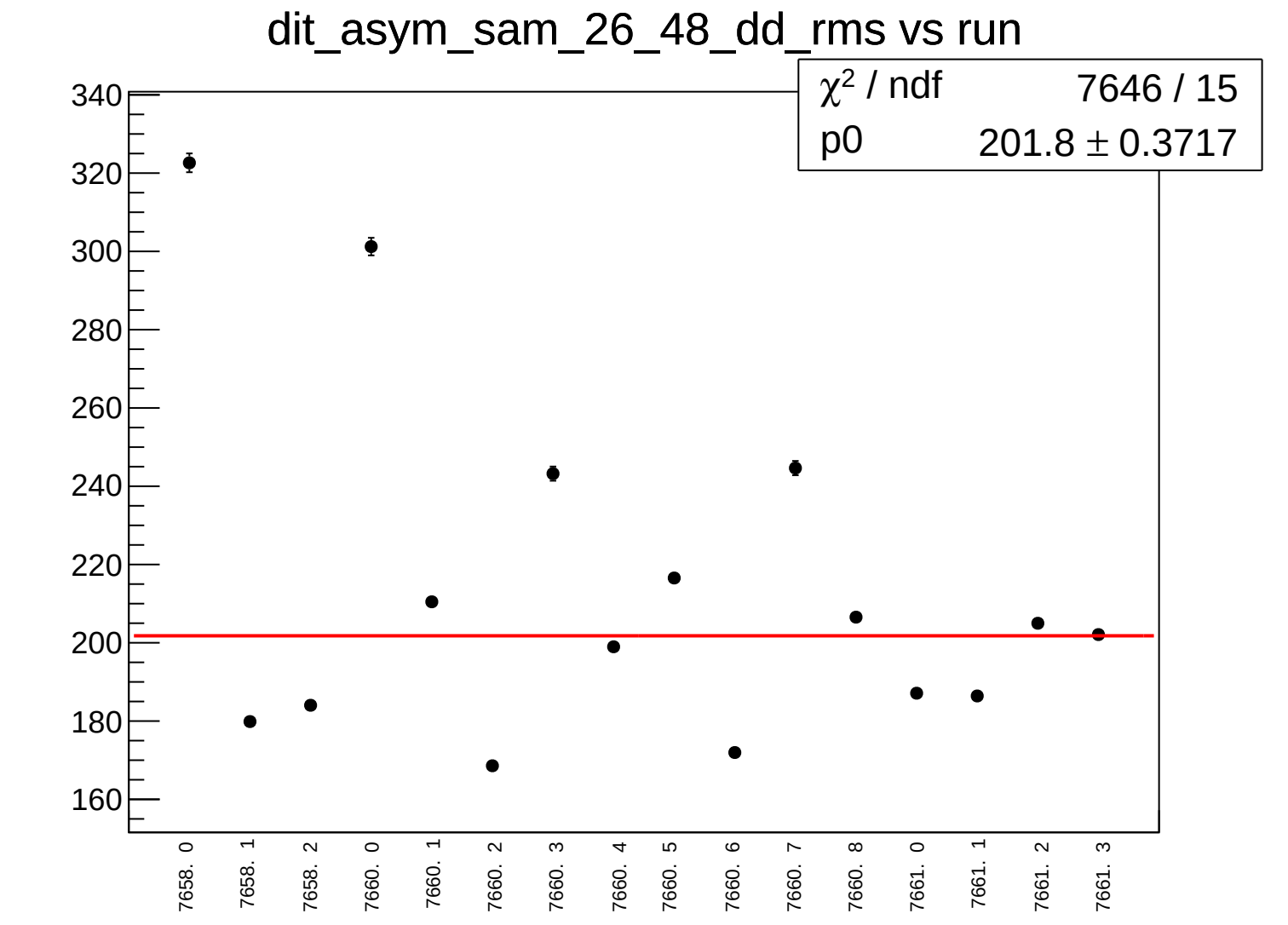

asym_sam_24_68_dd_mean vs run
×10^3
χ² / ndf 15.76 / 15
p0 905.9 ± 8279
100
50
0
−50
−100
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −58.42
Std Dev 64.09
1.5
1
0.5
0
−0.5
−1
−1.5

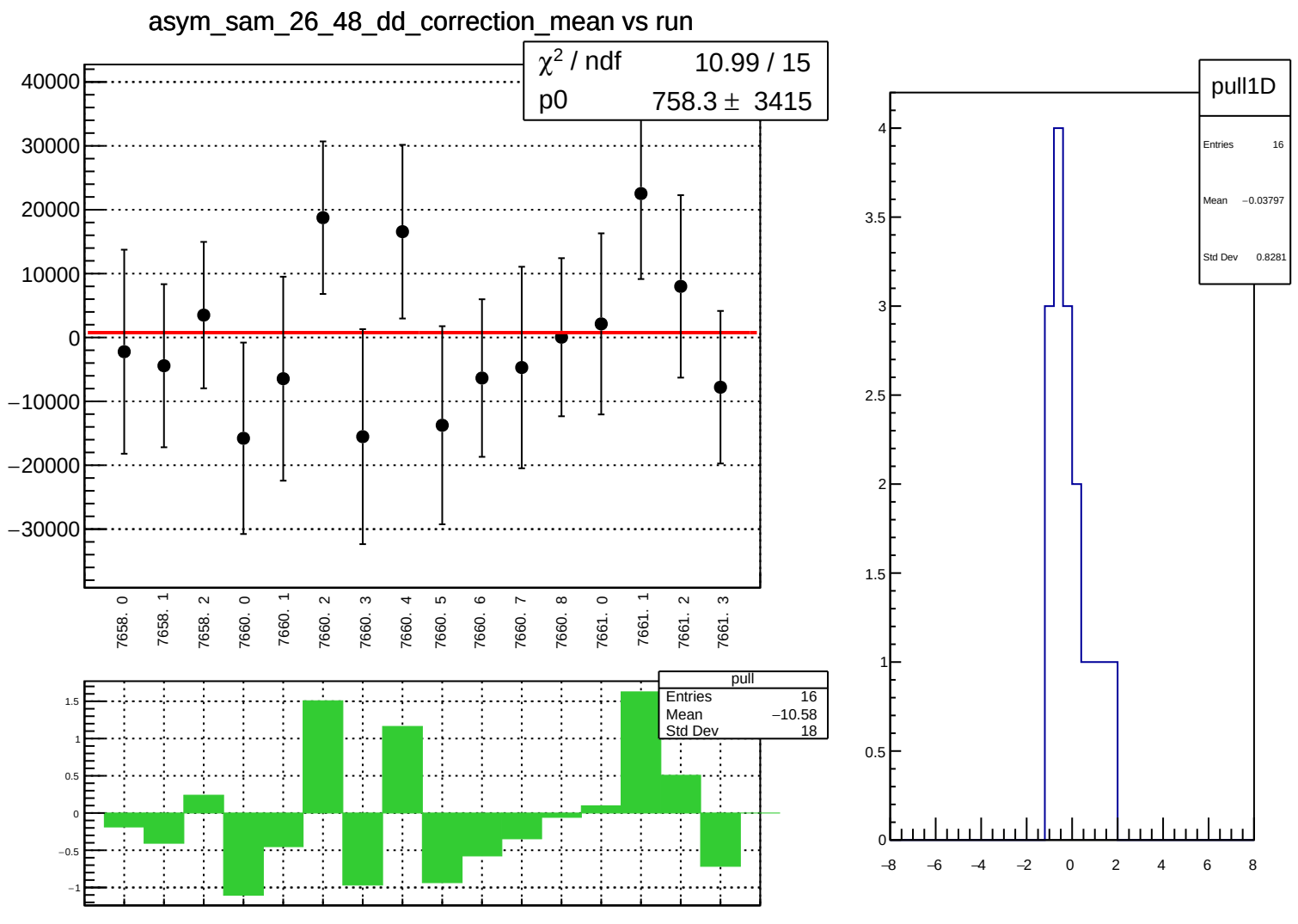

pull1D
Entries 16
Mean −0.01582
Std Dev 0.9924
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

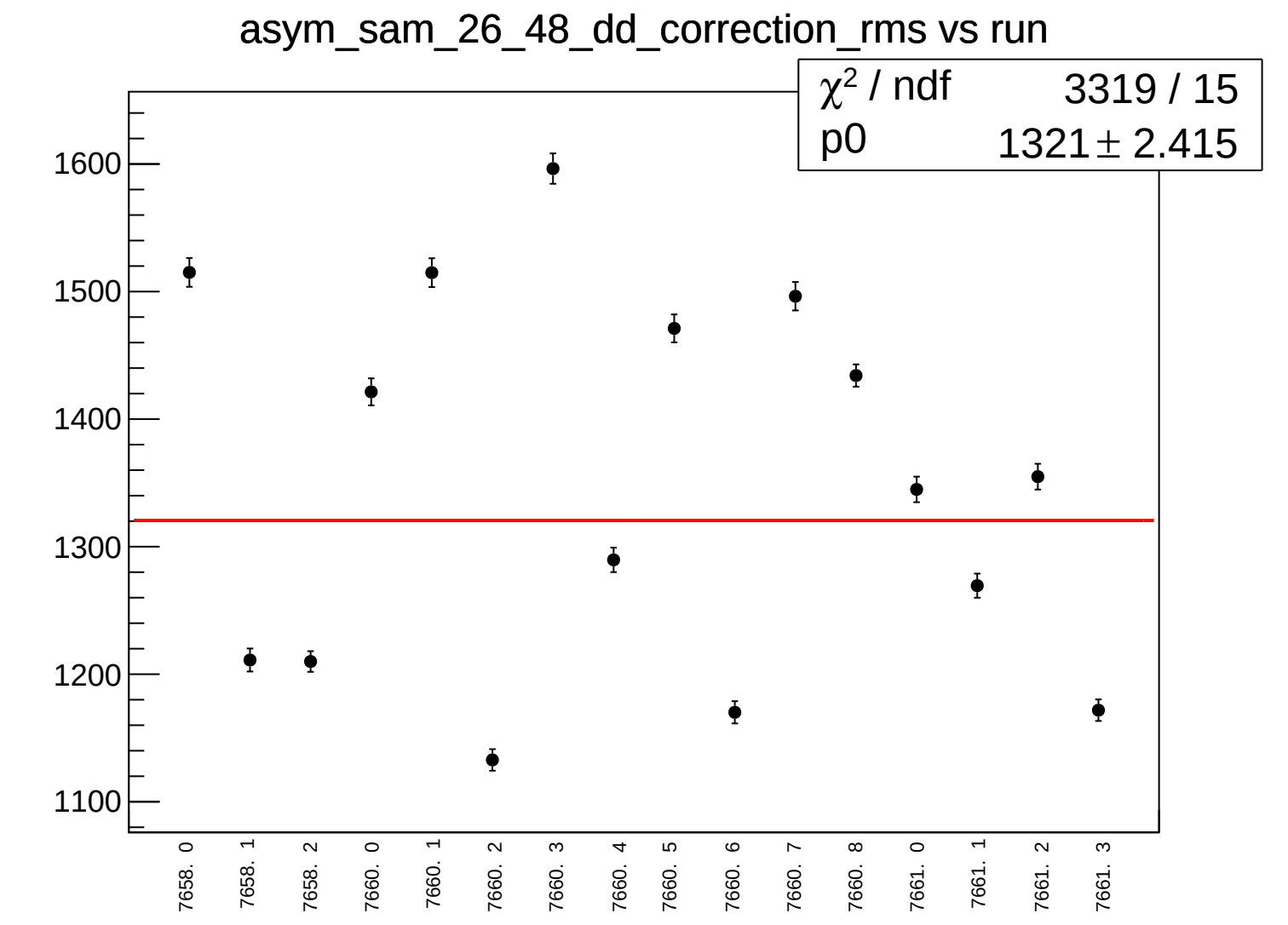

asym_sam_24_68_dd_rms vs run
χ² / ndf 414.9 / 15
p0 3217 ± 5.854
3400
3300
3200
3100
3000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

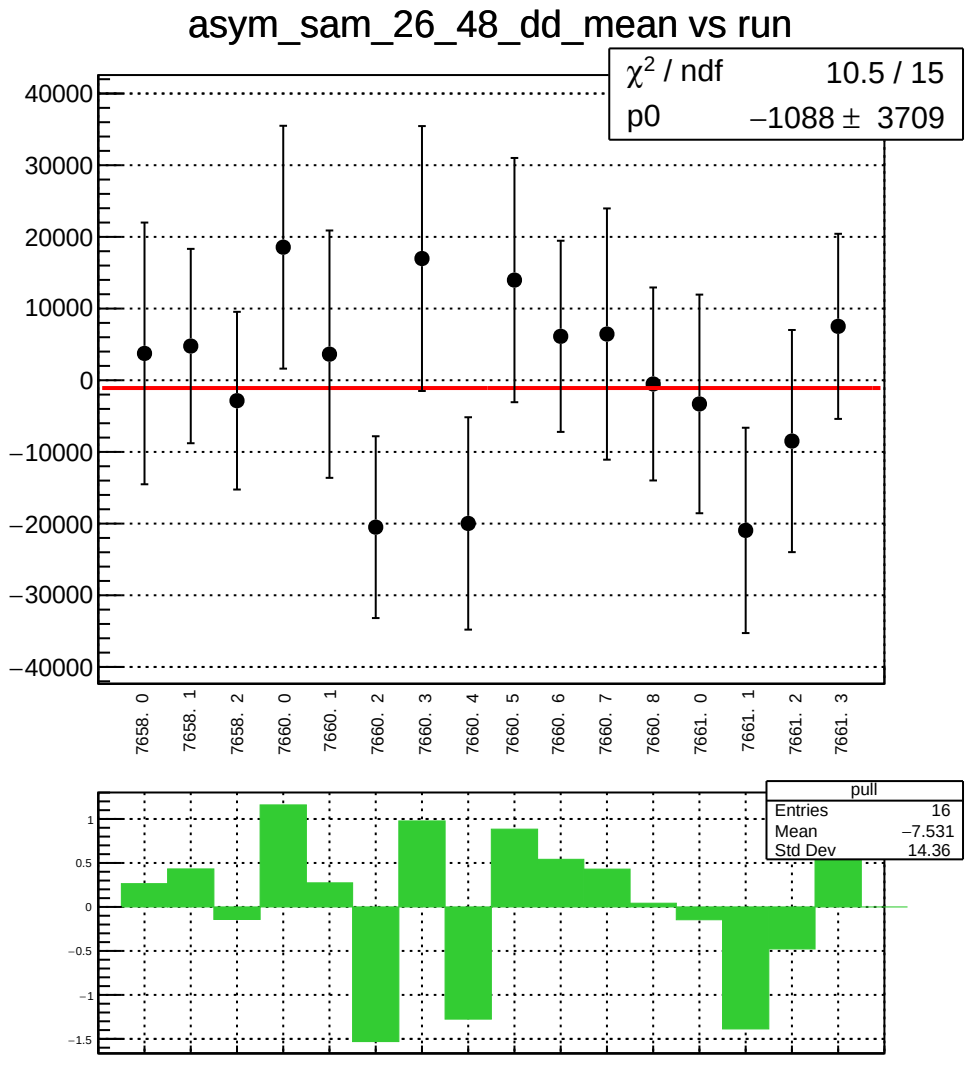

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 8.061 / 15
p0 −257.8 ± 525.6
6000
4000
2000
0
−2000
−4000
−6000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 3.481
Std Dev 9.178
1
0.5
0
−0.5
−1
−1.5

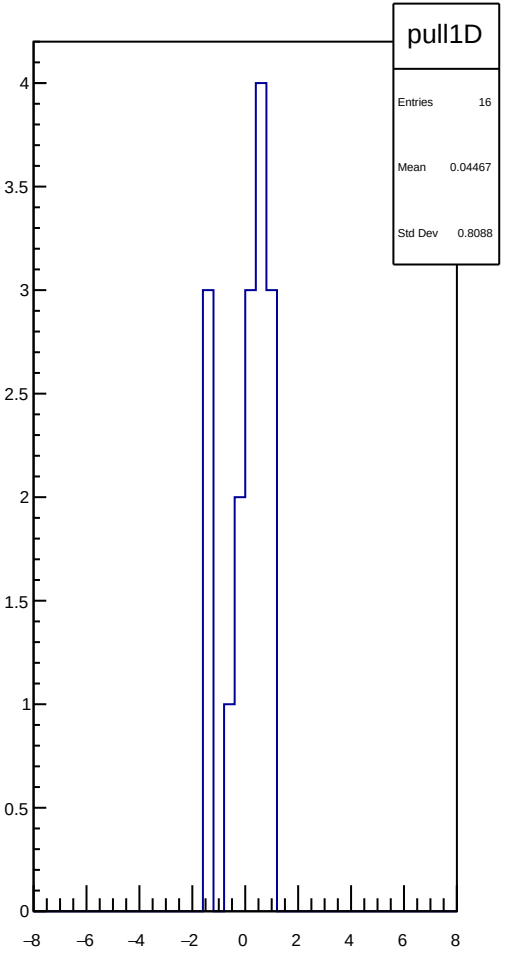

pull1D
Entries 16
Mean 0.04613
Std Dev 0.7083
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

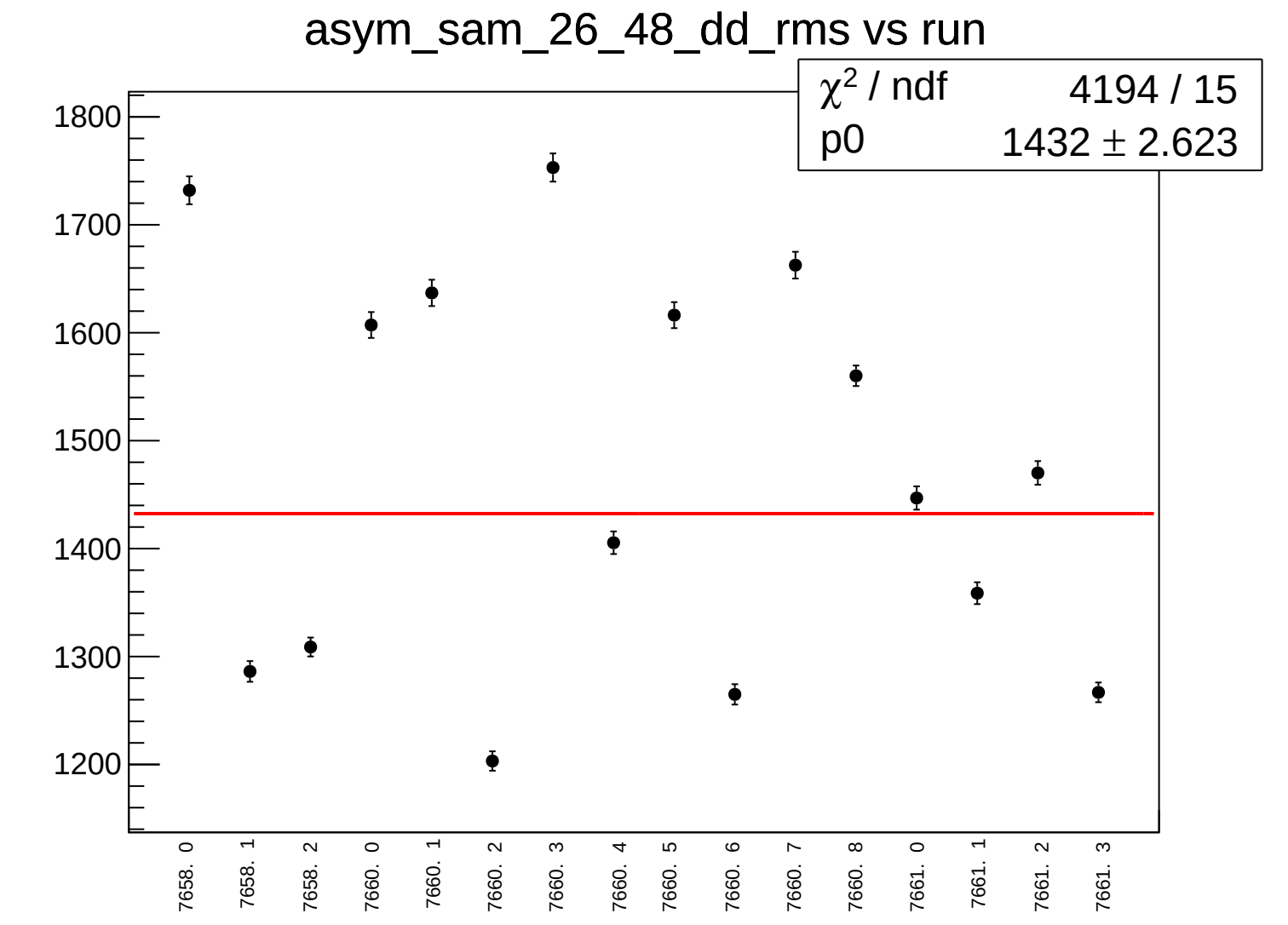

dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 7646 / 15
p0 201.8 ± 0.3717
340
320
300
280
260
240
220
200
180
160
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

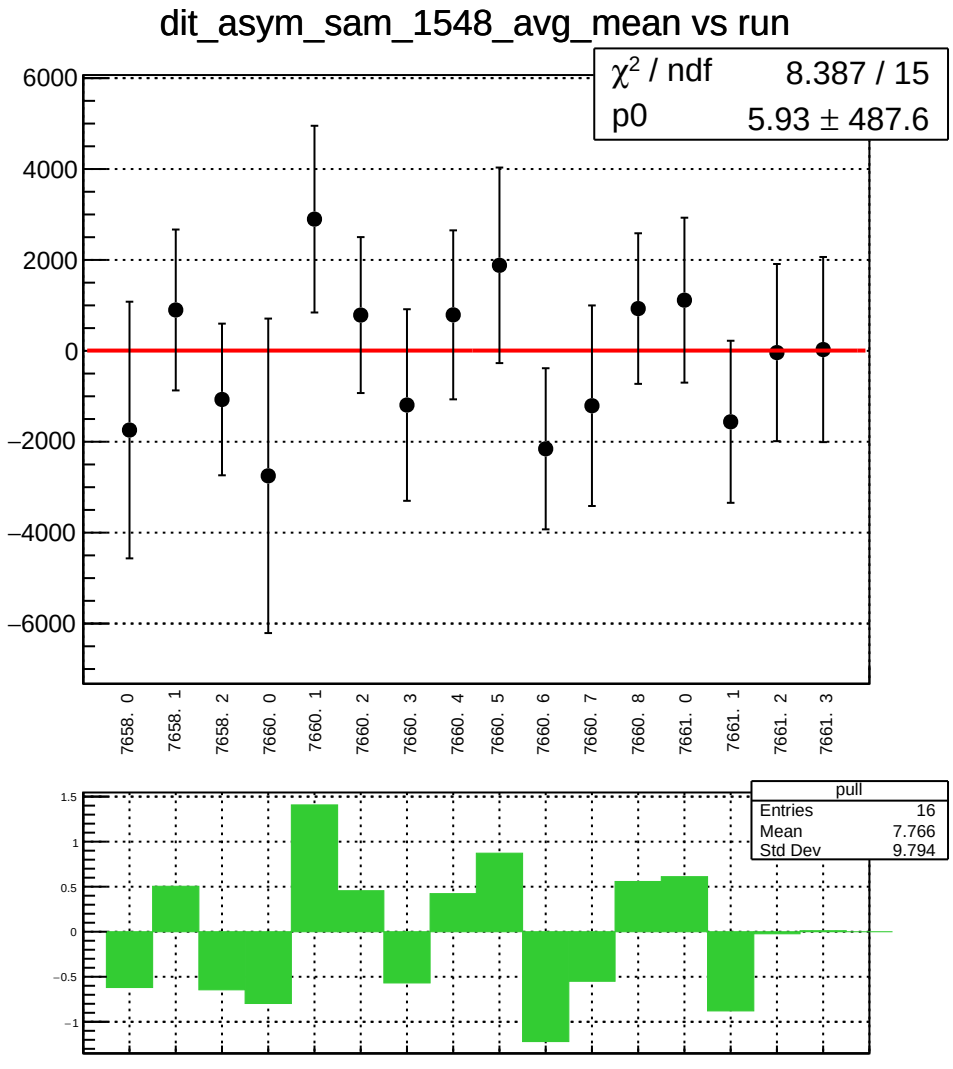

asym_sam_26_48_dd_correction_mean vs run
χ² / ndf 10.99 / 15
p0 758.3 ± 3415
40000
30000
20000
10000
0
−10000
−20000
−30000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −10.58
Std Dev 18
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 16
Mean −0.03797
Std Dev 0.8281
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

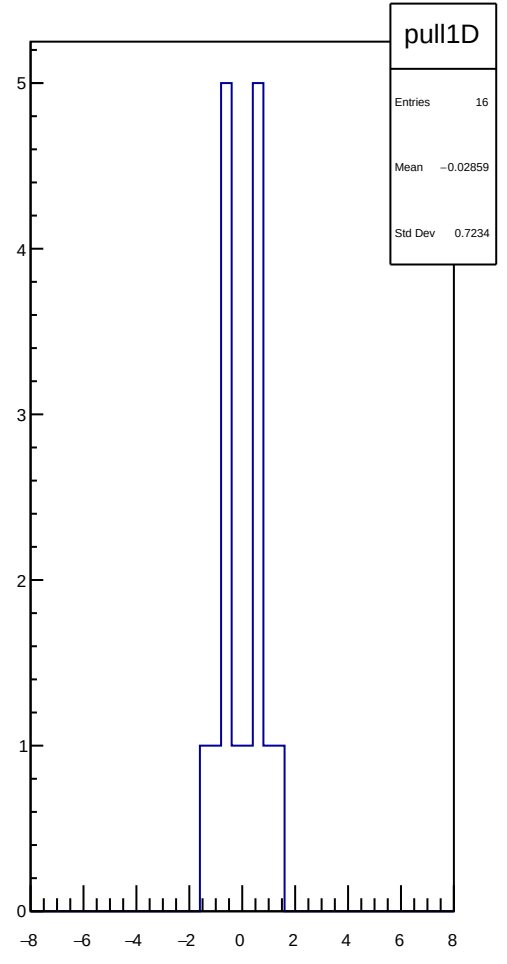

asym_sam_26_48_dd_correction_rms vs run
χ² / ndf 3319 / 15
p0 1321 ± 2.415
1600
1500
1400
1300
1200
1100
17658. 0
17658. 1
17658. 2
17660. 0
17660. 1
17660. 2
17660. 3
17660. 4
17660. 5
17660. 6
17660. 7
17660. 8
17661. 0
17661. 1
17661. 2
17661. 3

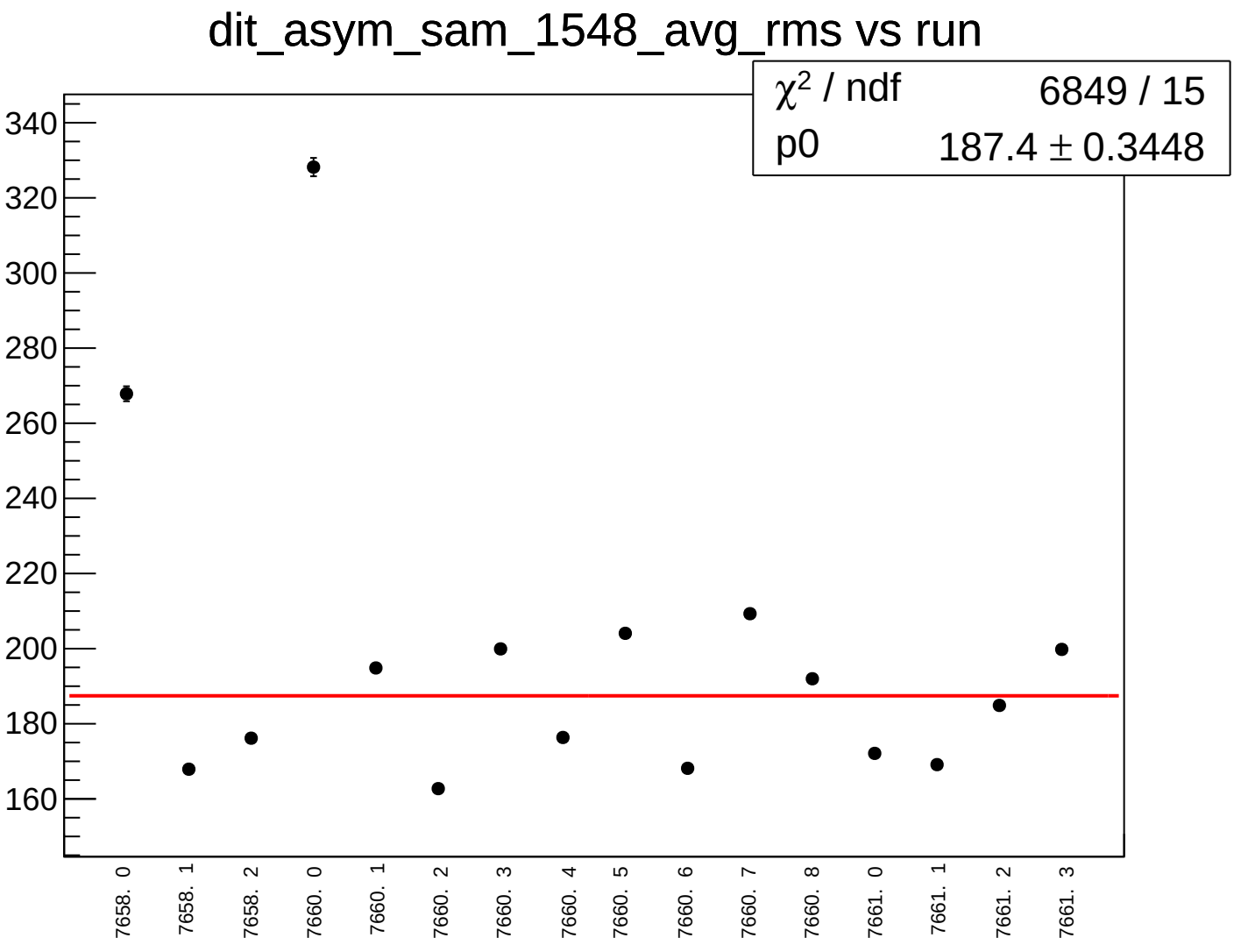

asym_sam_26_48_dd_mean vs run
χ² / ndf 10.5 / 15
p0 −1088 ± 3709
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −7.531
Std Dev 14.36
1
0.5
0
−0.5
−1
−1.5

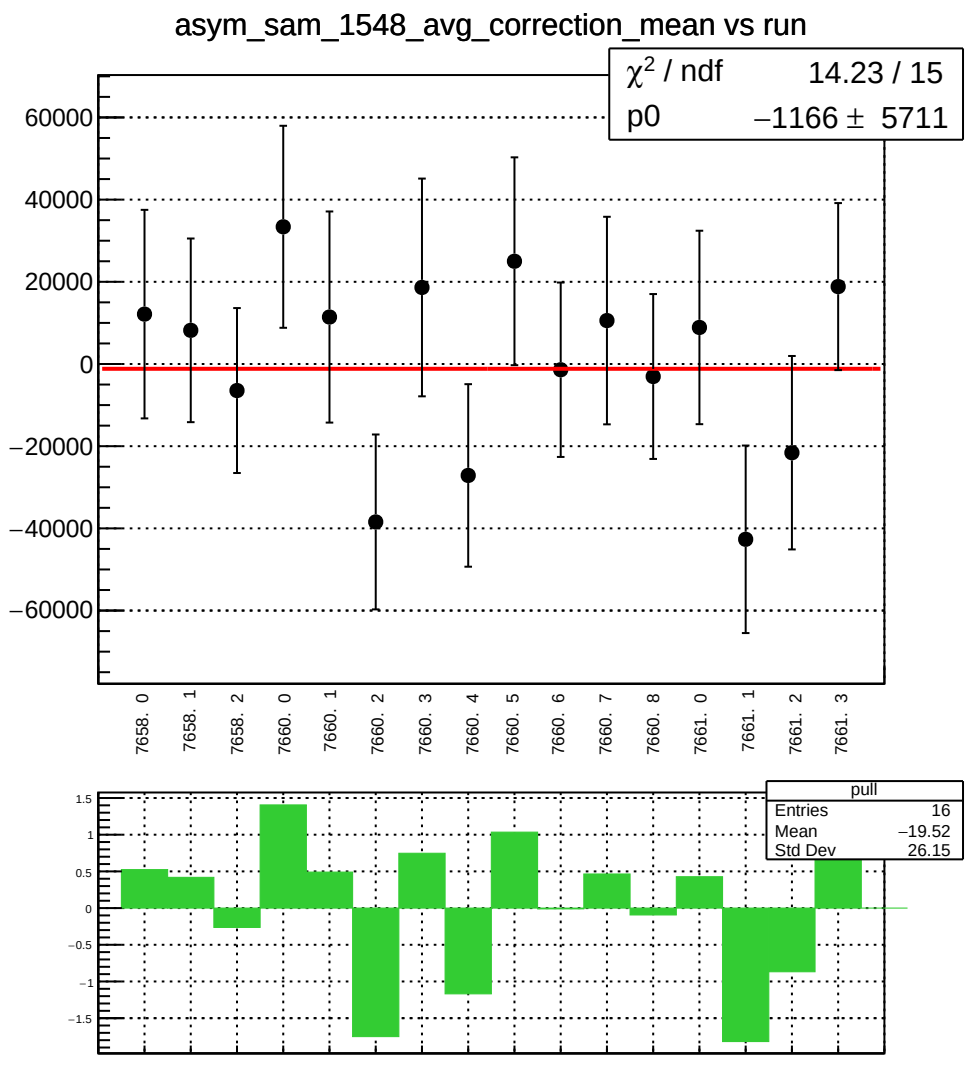

pull1D
Entries 16
Mean 0.04467
Std Dev 0.8088
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

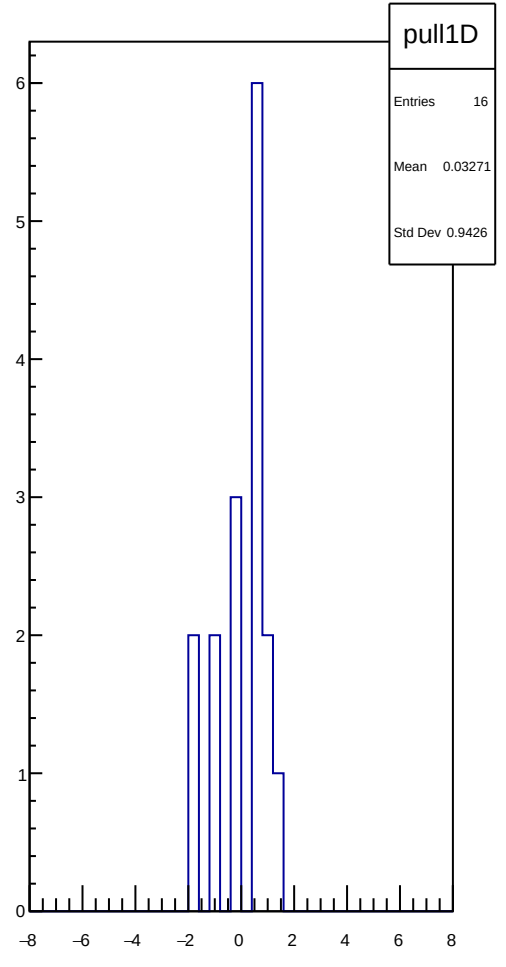

asym_sam_26_48_dd_rms vs run
χ² / ndf 4194 / 15
p0 1432 ± 2.623
1800
1700
1600
1500
1400
1300
1200
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

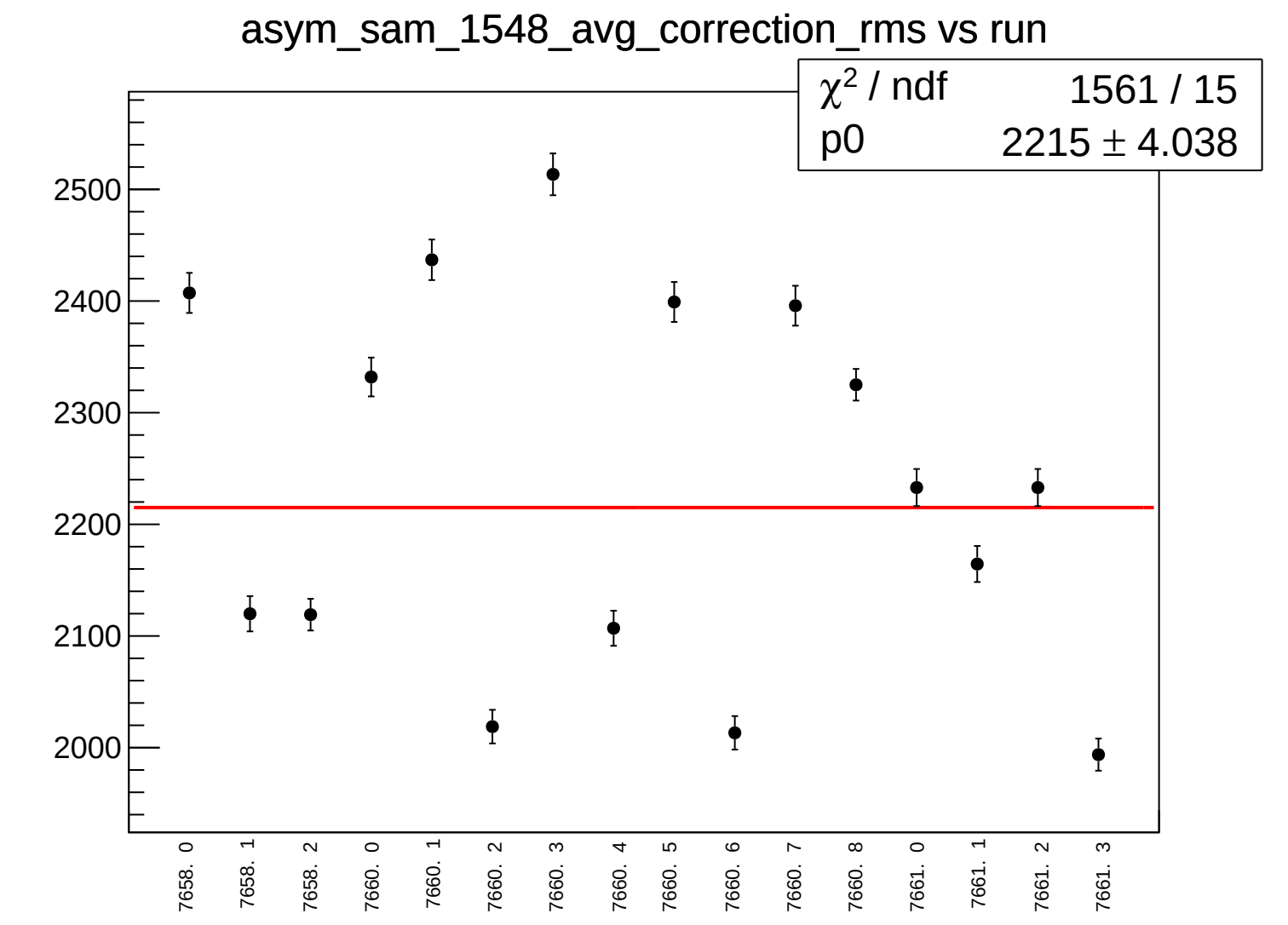

dit_asym_sam_1548_avg_mean vs run
χ² / ndf 8.387 / 15
p0 5.93 ± 487.6
6000
4000
2000
0
−2000
−4000
−6000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 7.766
Std Dev 9.794
1.5
1
0.5
0
−0.5
−1

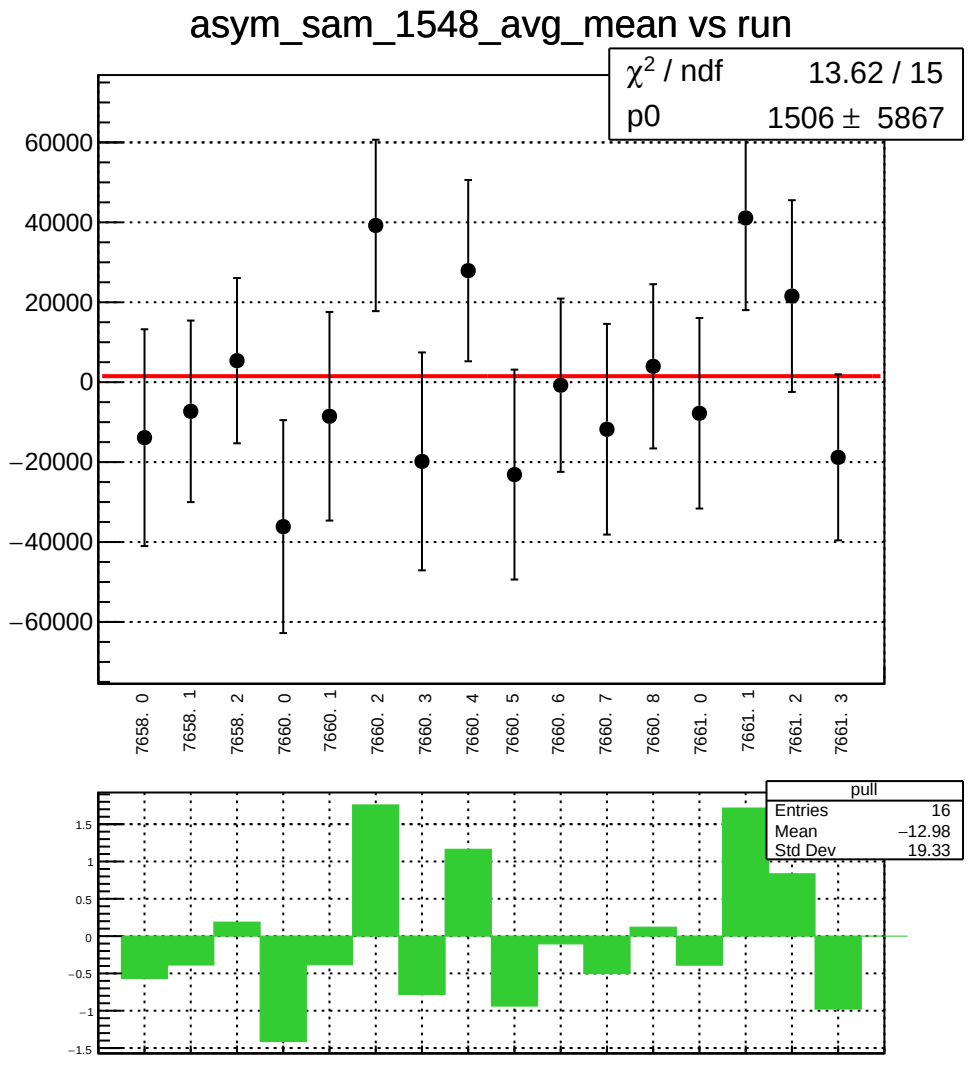

pull1D
Entries 16
Mean −0.02859
Std Dev 0.7234
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

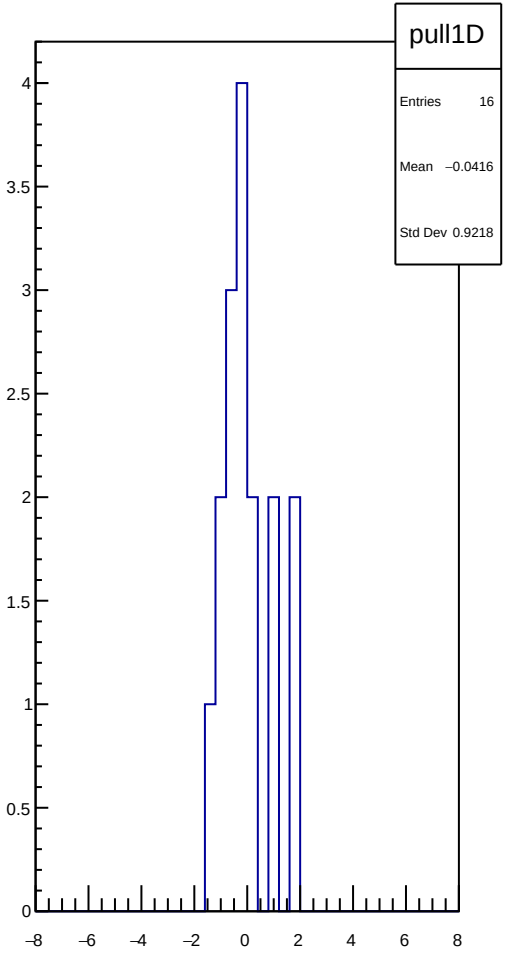

dit_asym_sam_1548_avg_rms vs run
χ² / ndf 6849 / 15
p0 187.4 ± 0.3448
340
320
300
280
260
240
220
200
180
160
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

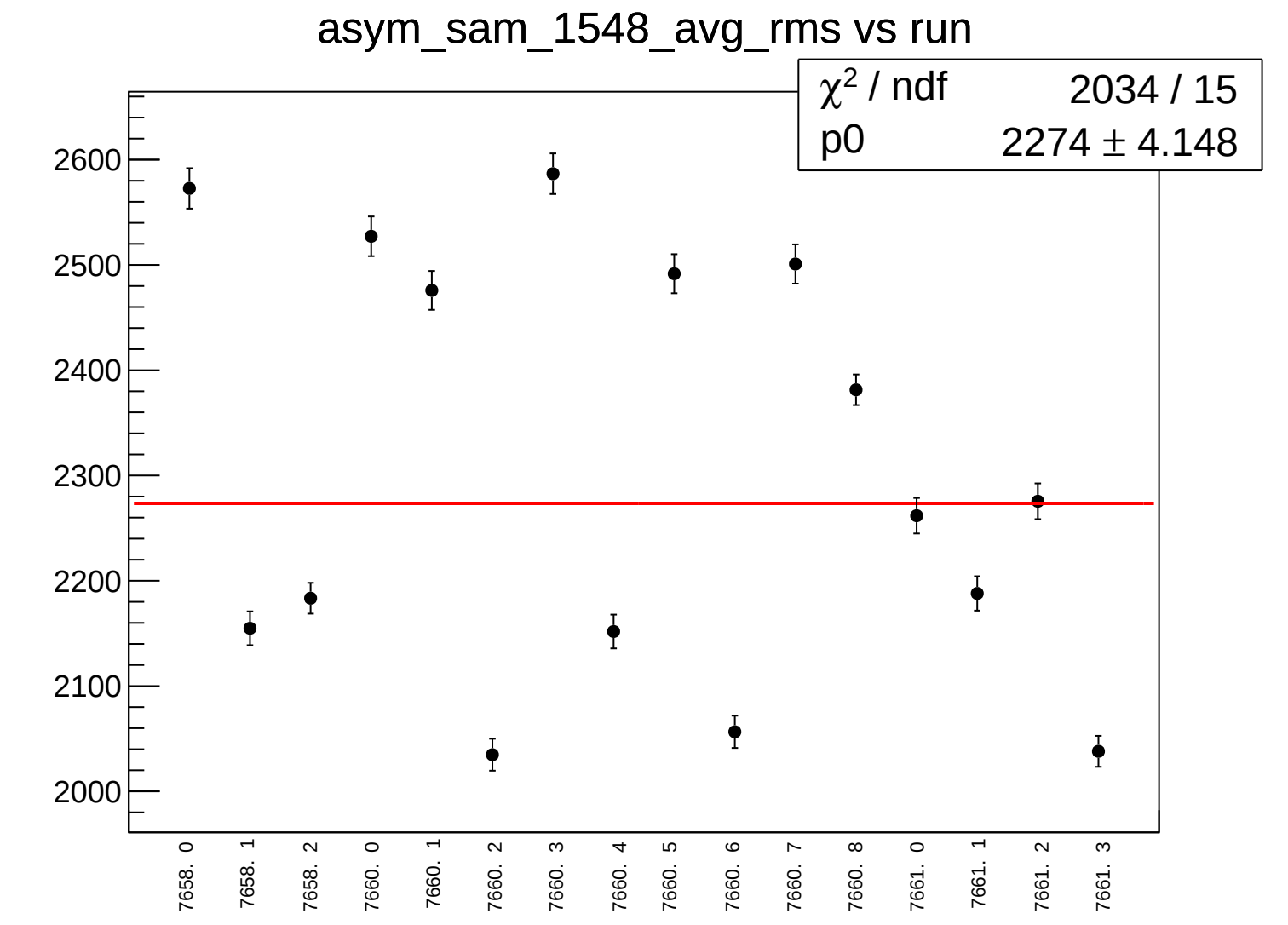

asym_sam_1548_avg_correction_mean vs run
χ² / ndf 14.23 / 15
p0 −1166 ± 5711
60000
40000
20000
0
−20000
−40000
−60000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −19.52
Std Dev 26.15
1.5
1
0.5
0
−0.5
−1
−1.5

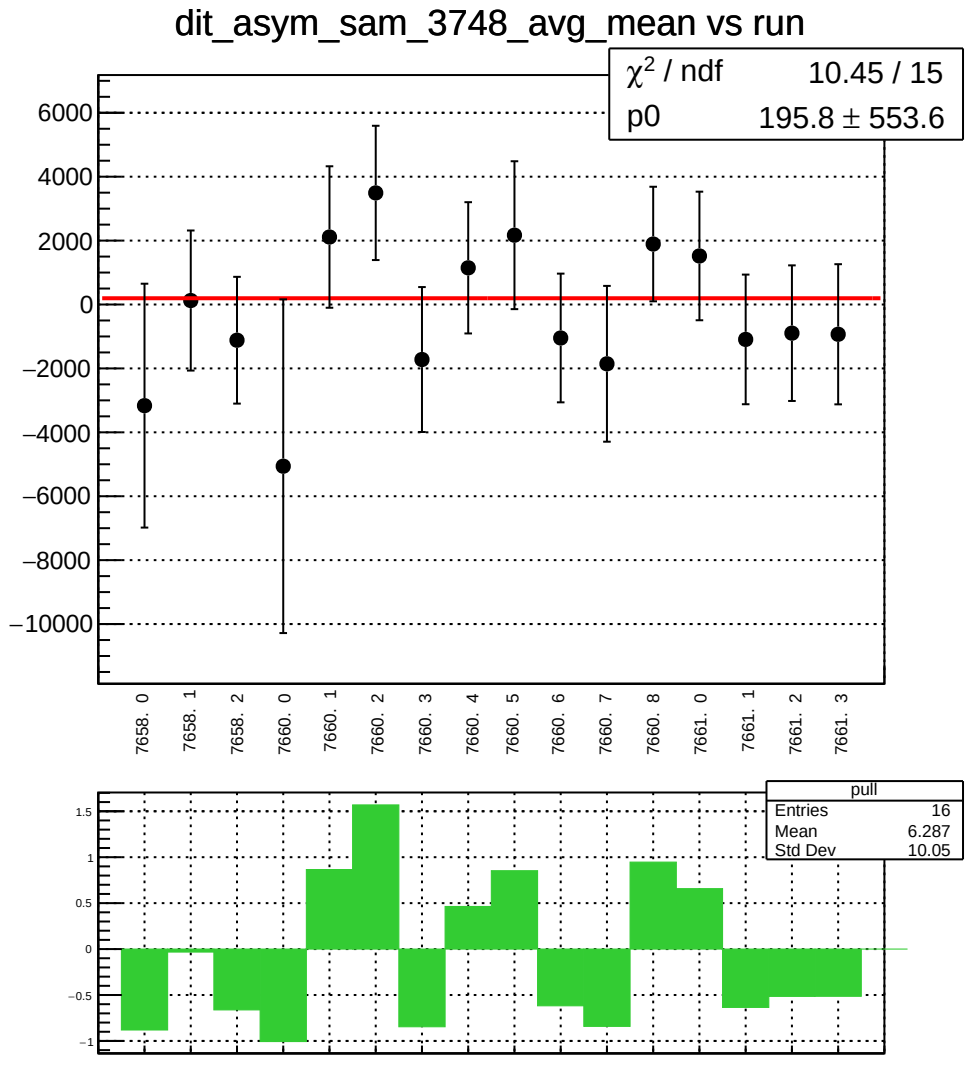

pull1D
Entries 16
Mean 0.03271
Std Dev 0.9426
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

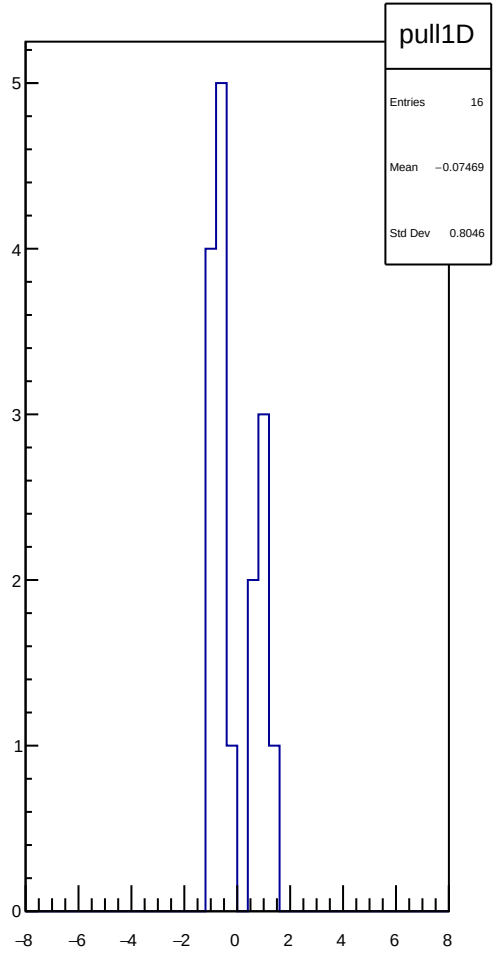

asym_sam_1548_avg_correction_rms vs run
χ² / ndf 1561 / 15
p0 2215 ± 4.038
2500
2400
2300
2200
2100
2000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

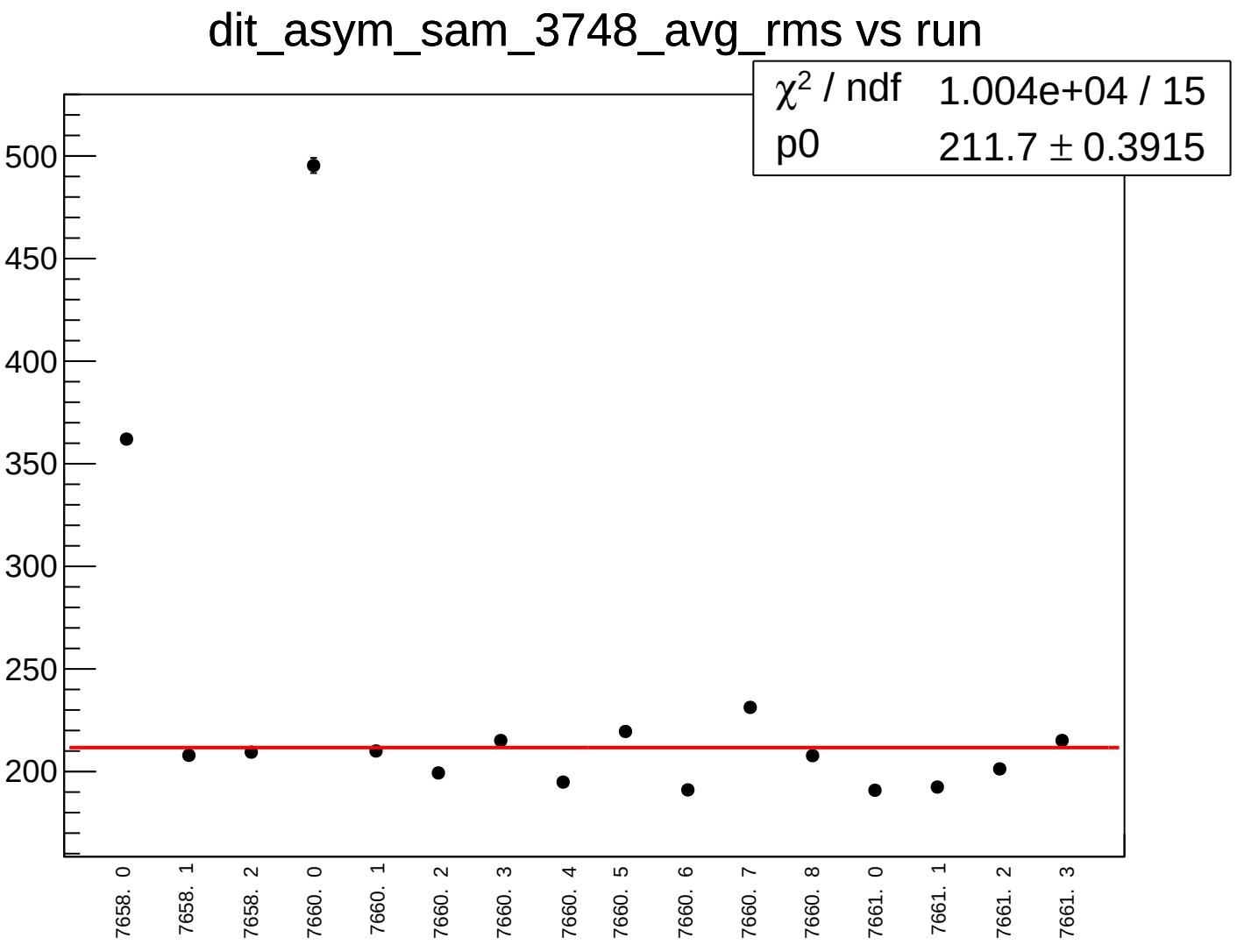

asym_sam_1548_avg_mean vs run
χ² / ndf 13.62 / 15
p0 1506 ± 5867
60000
40000
20000
0
−20000
−40000
−60000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −12.98
Std Dev 19.33
1.5
1
0.5
0
−0.5
−1
−1.5

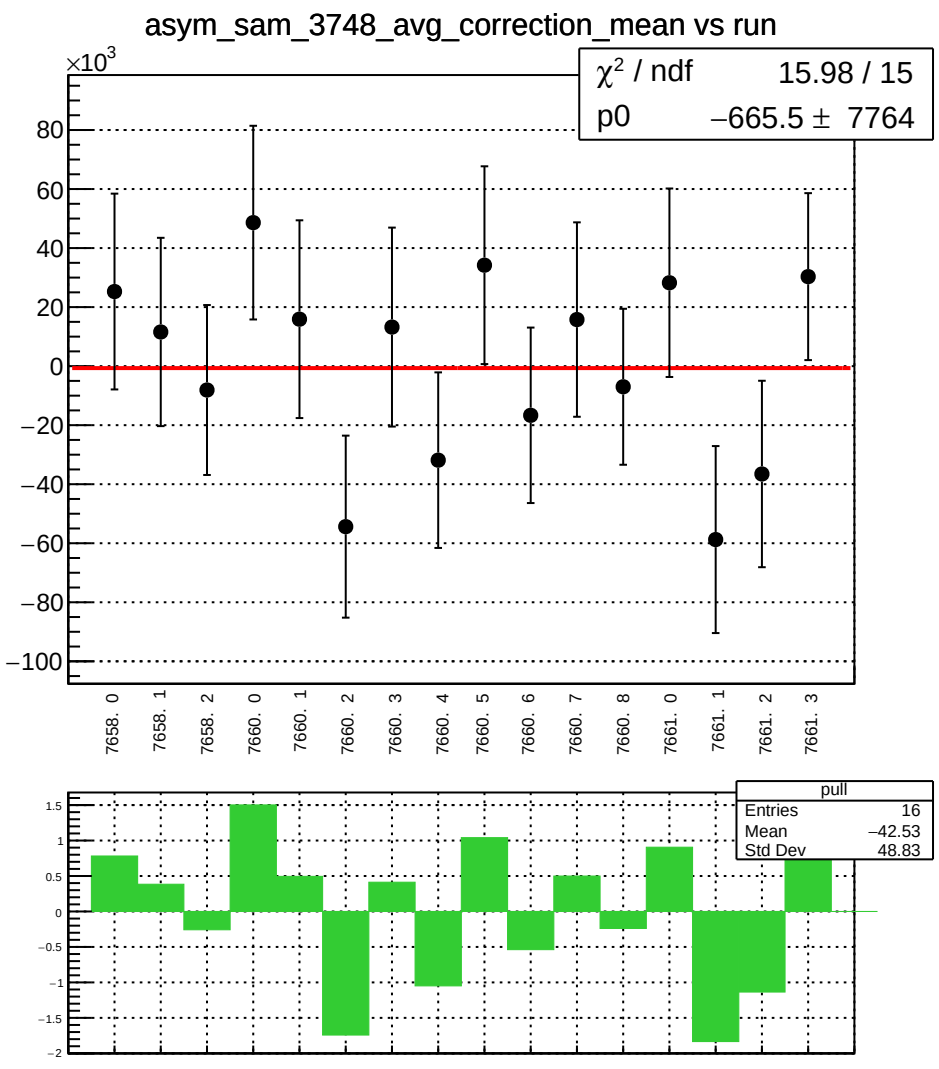

pull1D
Entries 16
Mean −0.0416
Std Dev 0.9218
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

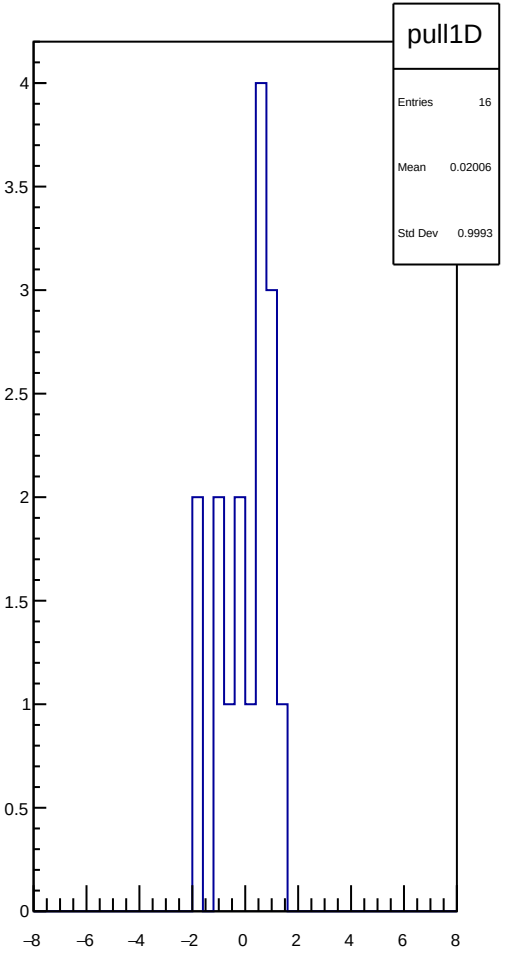

asym_sam_1548_avg_rms vs run
χ² / ndf 2034 / 15
p0 2274 ± 4.148
2600
2500
2400
2300
2200
2100
2000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

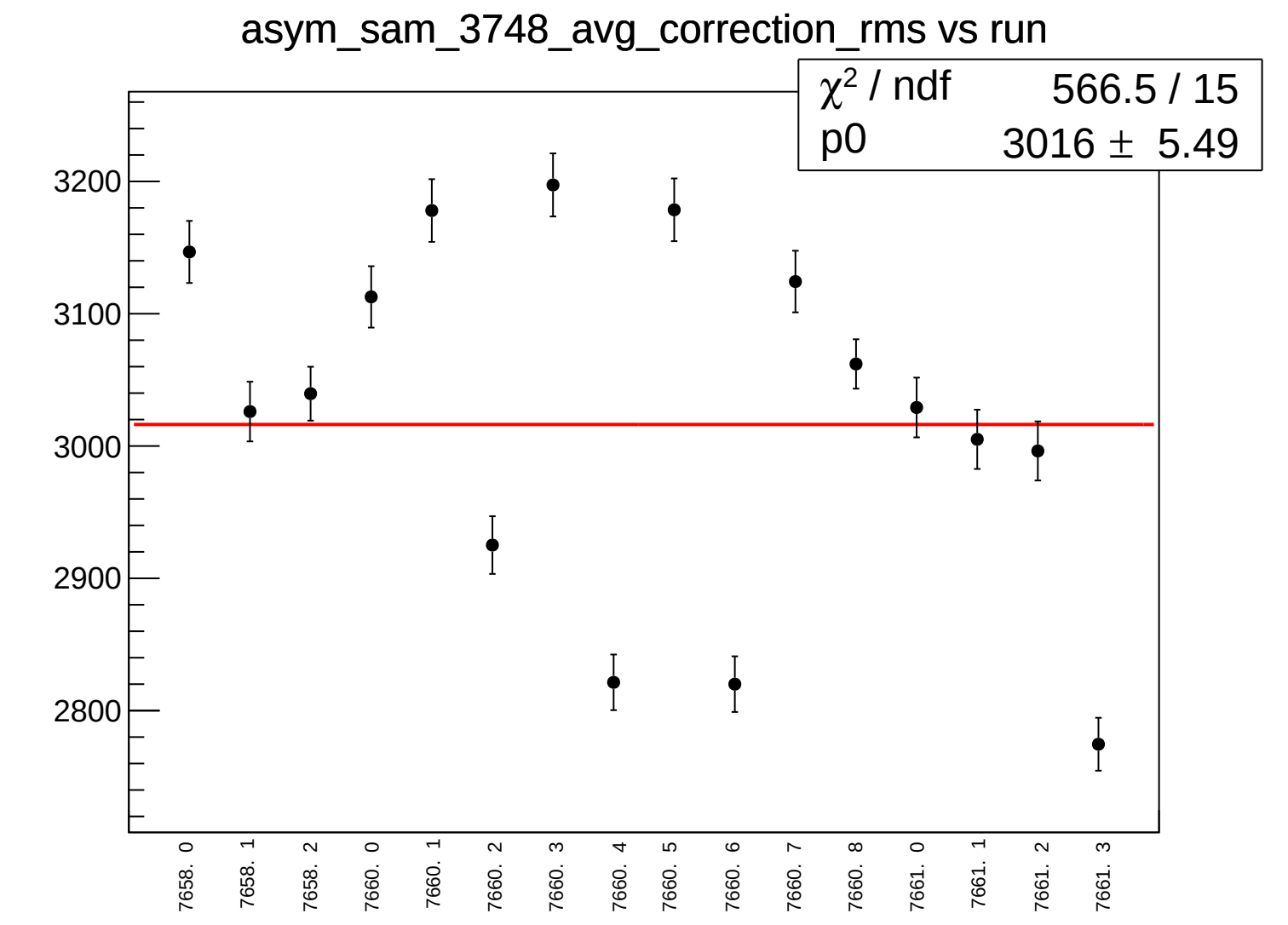

dit_asym_sam_3748_avg_mean vs run
χ² / ndf 10.45 / 15
p0 195.8 ± 553.6
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 6.287
Std Dev 10.05
1.5
1
0.5
0
−0.5
−1

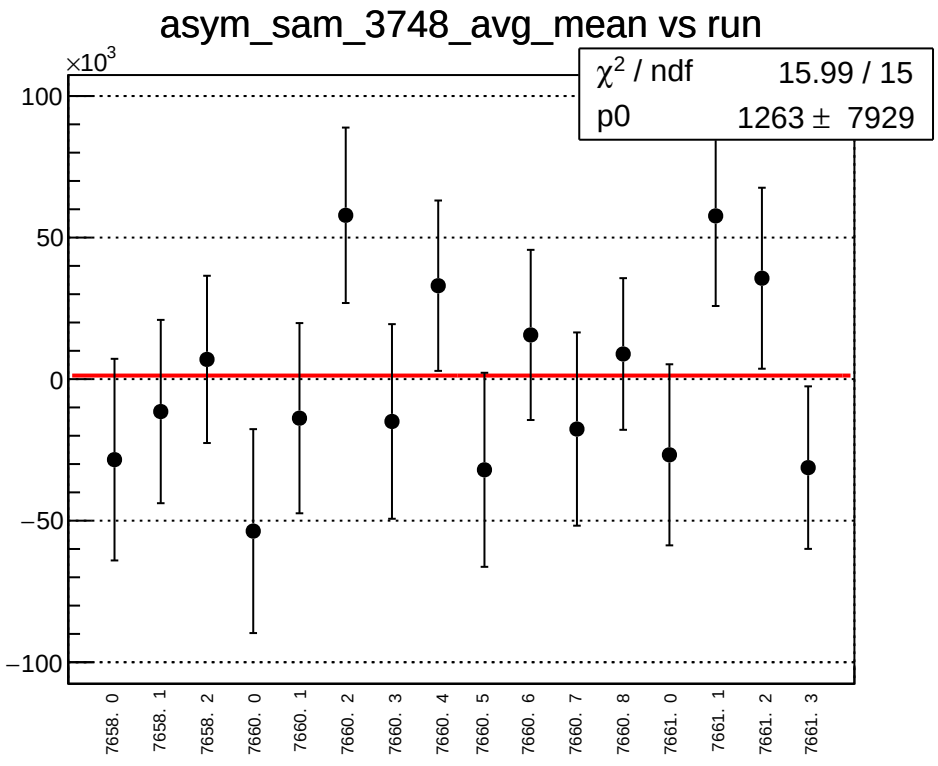

pull1D
Entries 16
Mean −0.07469
Std Dev 0.8046
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

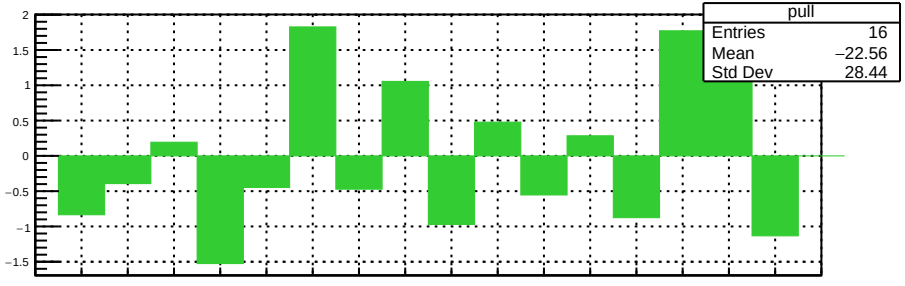

dit_asym_sam_3748_avg_rms vs run
χ² / ndf 1.004e+04 / 15
p0 211.7 ± 0.3915
500
450
400
350
300
250
200
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

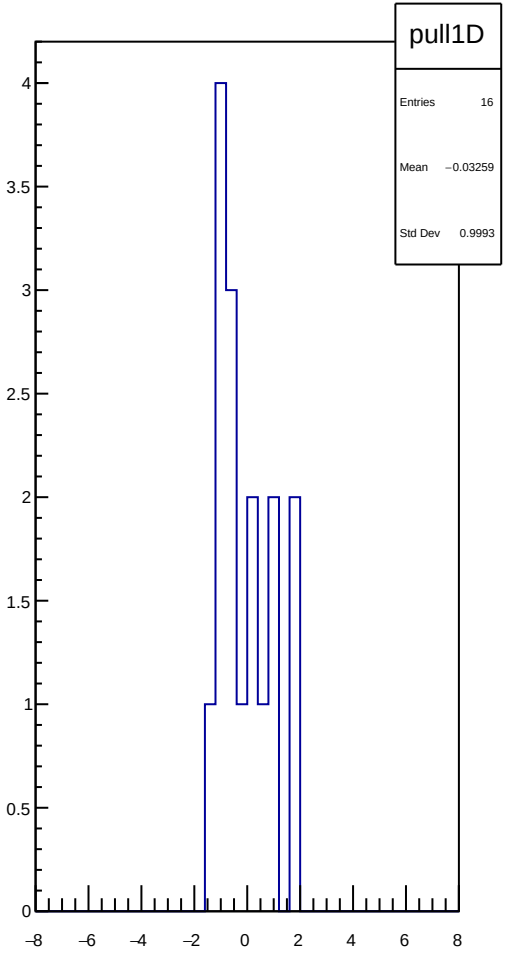

asym_sam_3748_avg_correction_mean vs run
×10^3
χ² / ndf 15.98 / 15
p0 −665.5 ± 7764
80
60
40
20
0
−20
−40
−60
−80
−100
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −42.53
Std Dev 48.83
1.5
1
0.5
0
−0.5
−1
−1.5
−2

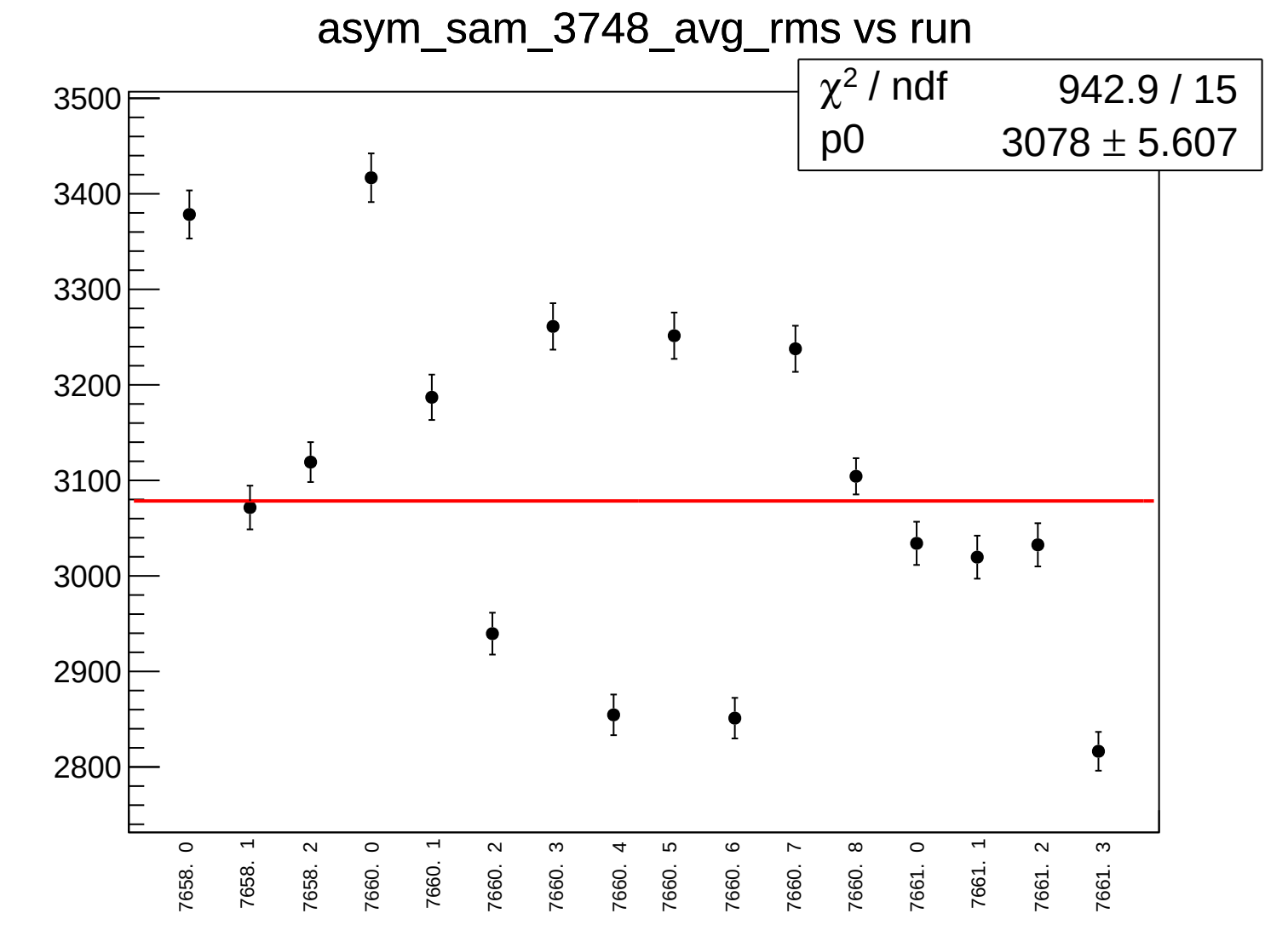

pull1D
Entries 16
Mean 0.02006
Std Dev 0.9993
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

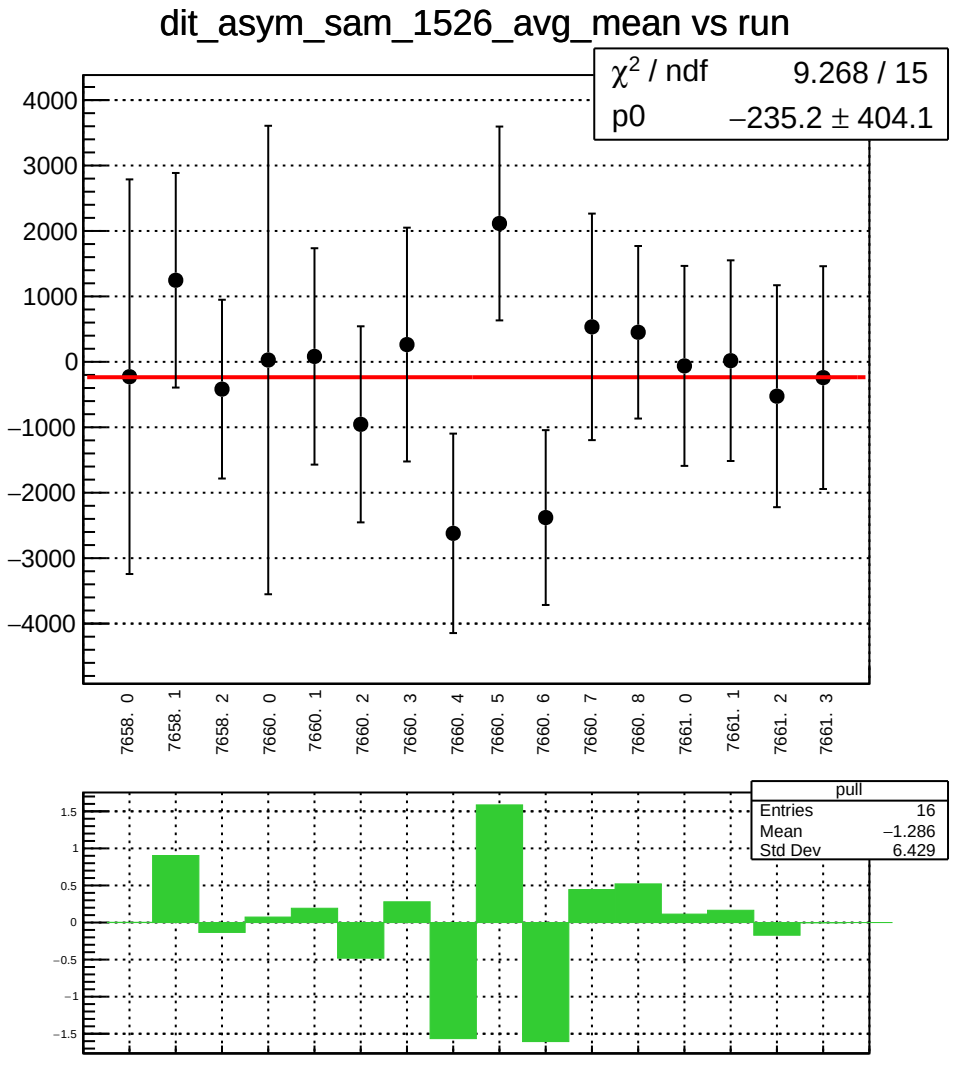

asym_sam_3748_avg_correction_rms vs run
χ² / ndf 566.5 / 15
p0 3016 ± 5.49
3200
3100
3000
2900
2800
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

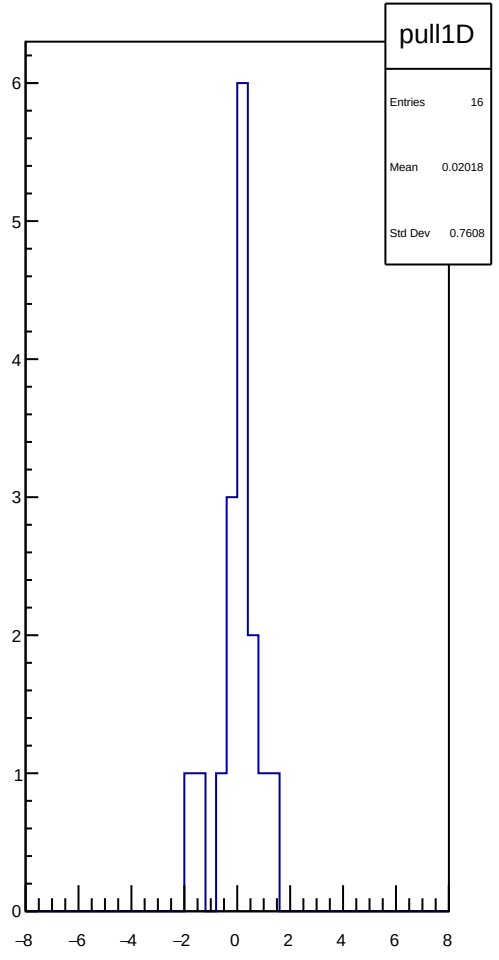

asym_sam_3748_avg_mean vs run
×10^3
χ^2 / ndf 15.99 / 15
p0 1263 ± 7929
100
50
0
−50
−100
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

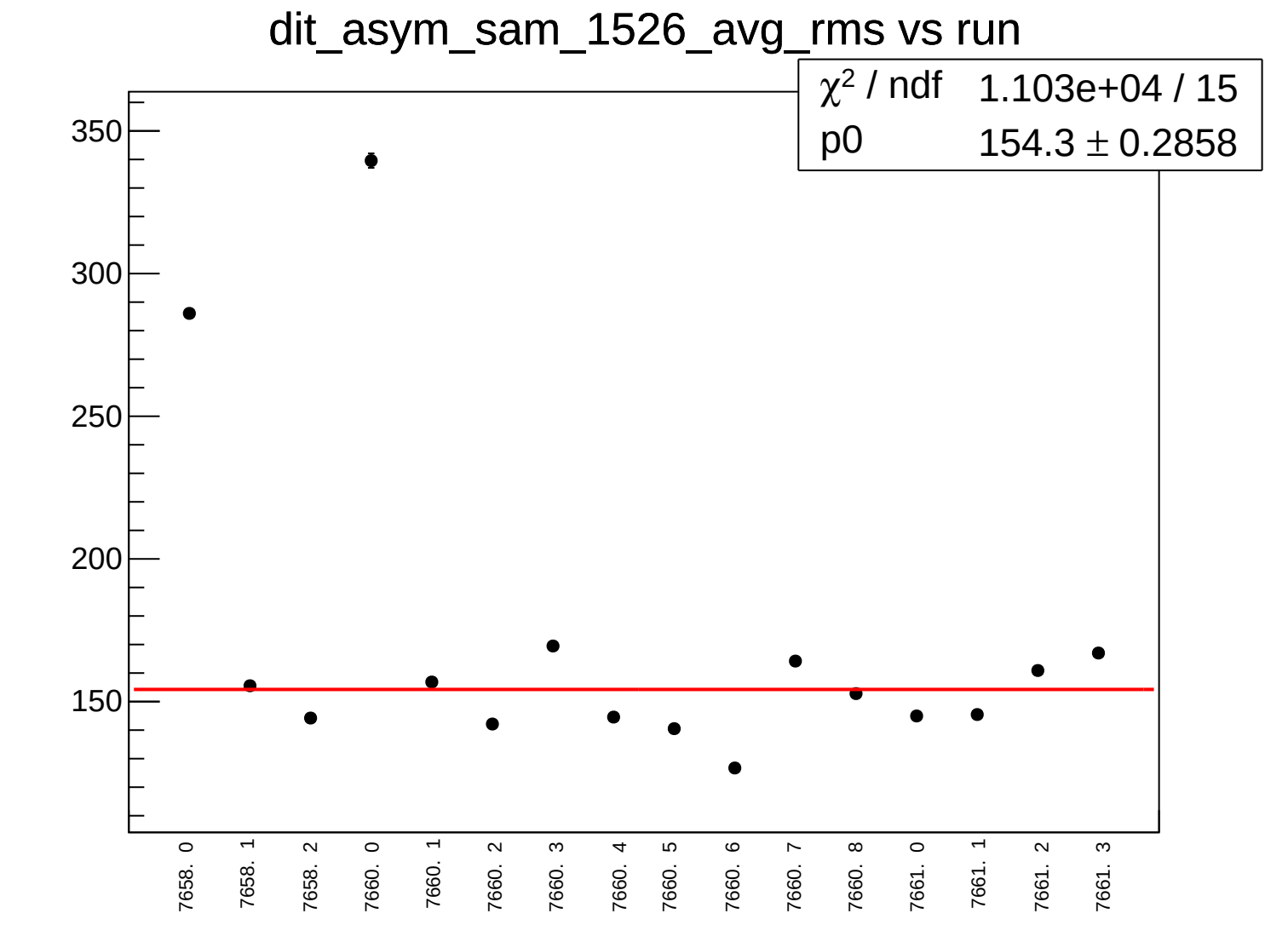

pull
Entries 16
Mean −22.56
Std Dev 28.44
2
1.5
1
0.5
0
−0.5
−1
−1.5

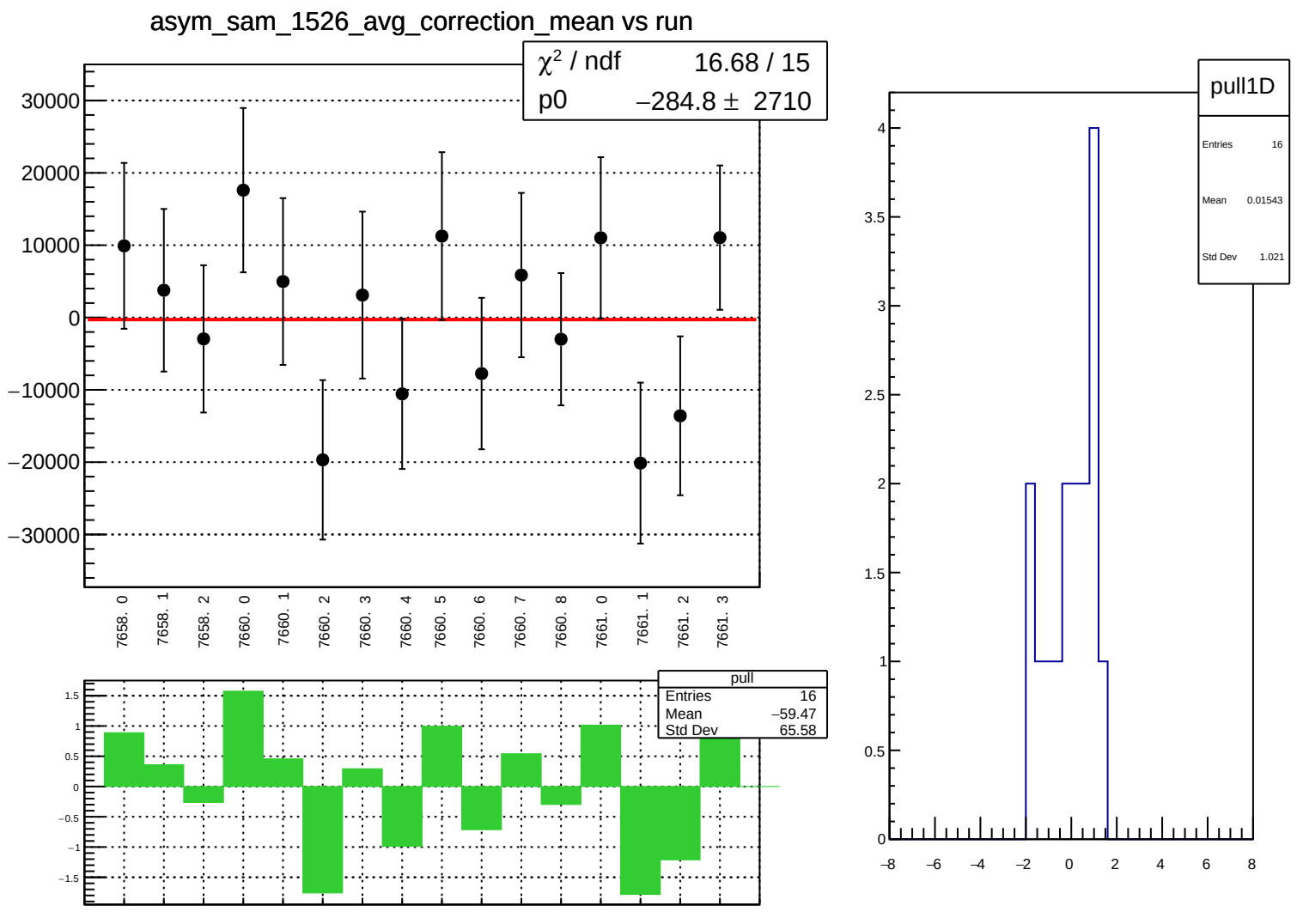

pull1D
Entries 16
Mean −0.03259
Std Dev 0.9993
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

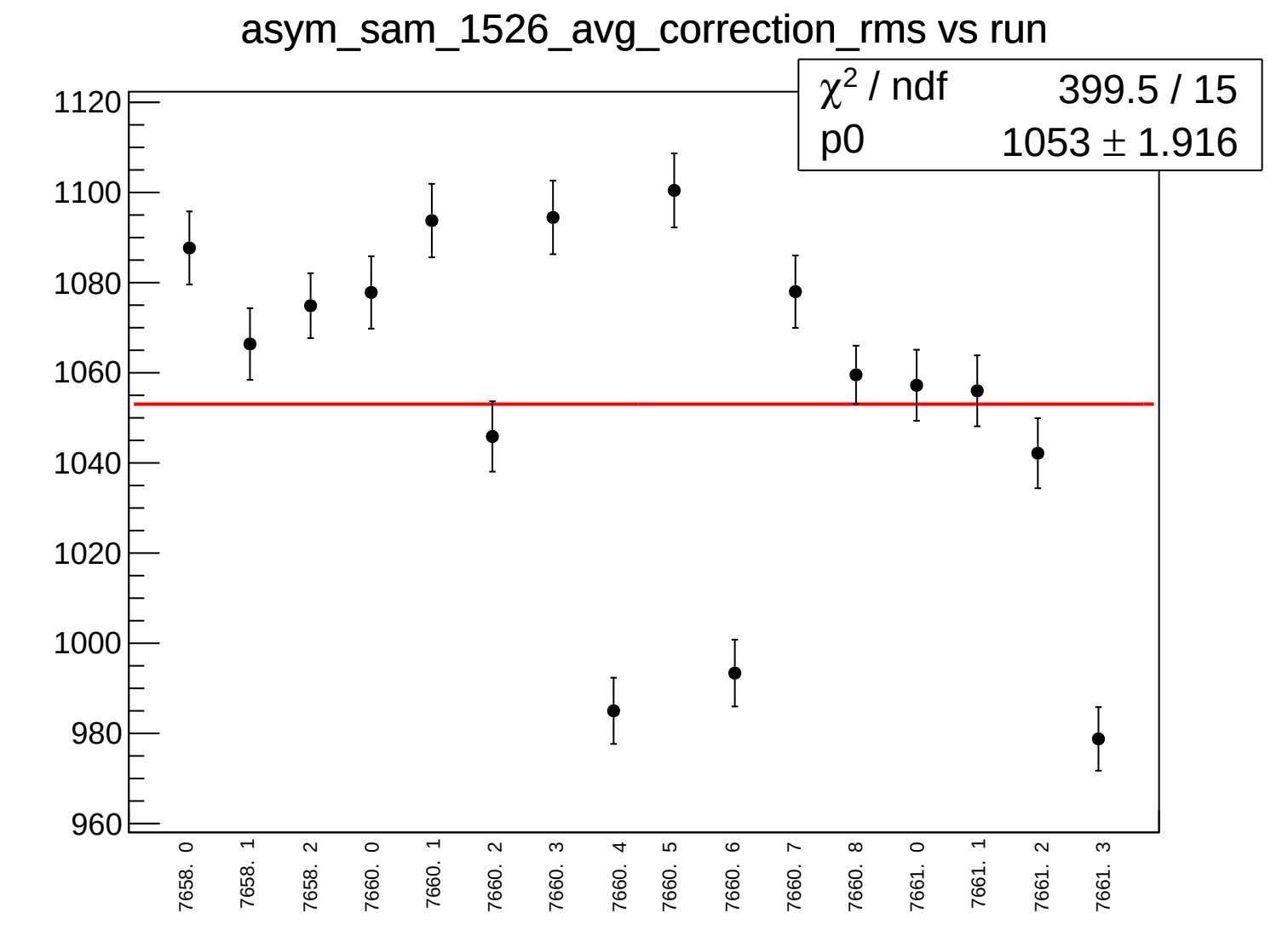

asym_sam_3748_avg_rms vs run
χ² / ndf 942.9 / 15
p0 3078 ± 5.607
3500
3400
3300
3200
3100
3000
2900
2800
17658. 0
17658. 1
17658. 2
17660. 0
17660. 1
17660. 2
17660. 3
17660. 4
17660. 5
17660. 6
17660. 7
17660. 8
17661. 0
17661. 1
17661. 2
17661. 3

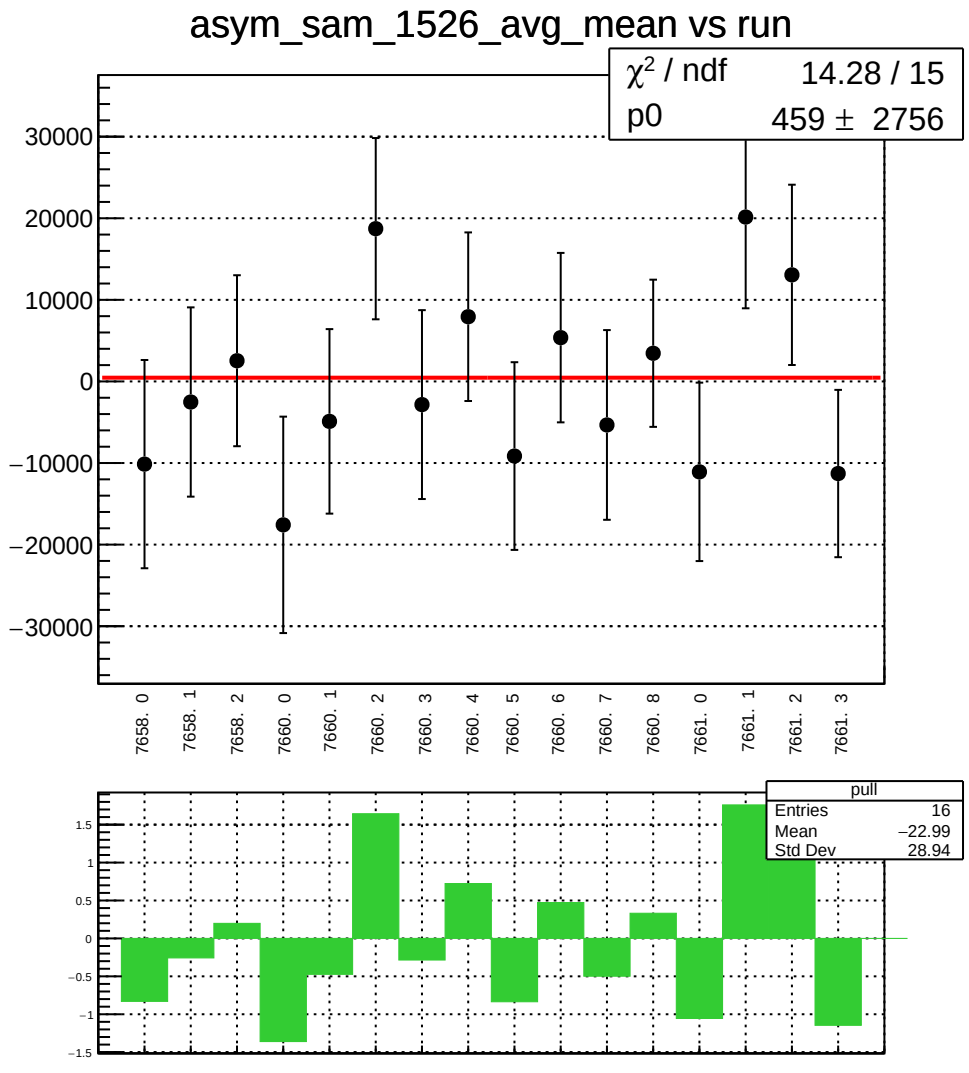

dit_asym_sam_1526_avg_mean vs run
χ² / ndf 9.268 / 15
p0 −235.2 ± 404.1
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −1.286
Std Dev 6.429
1.5
1
0.5
0
−0.5
−1
−1.5

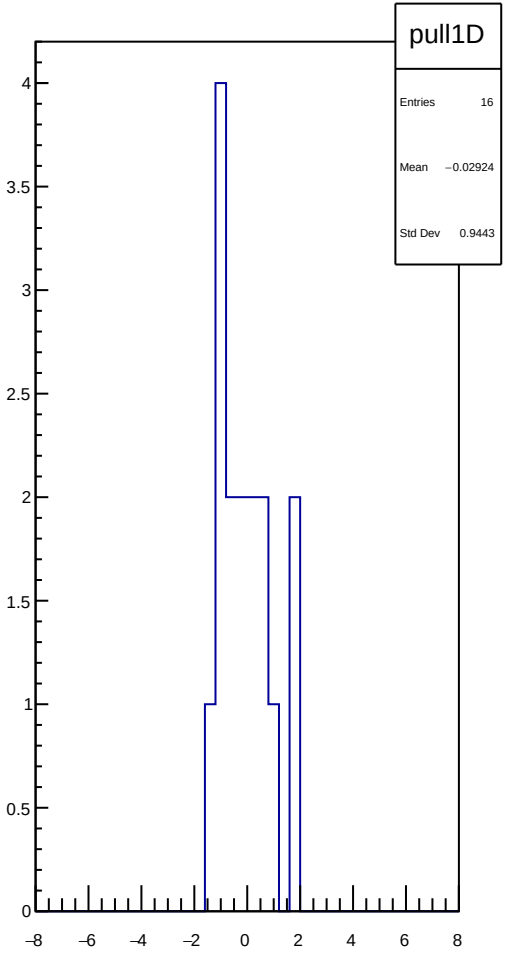

pull1D
Entries 16
Mean 0.02018
Std Dev 0.7608
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

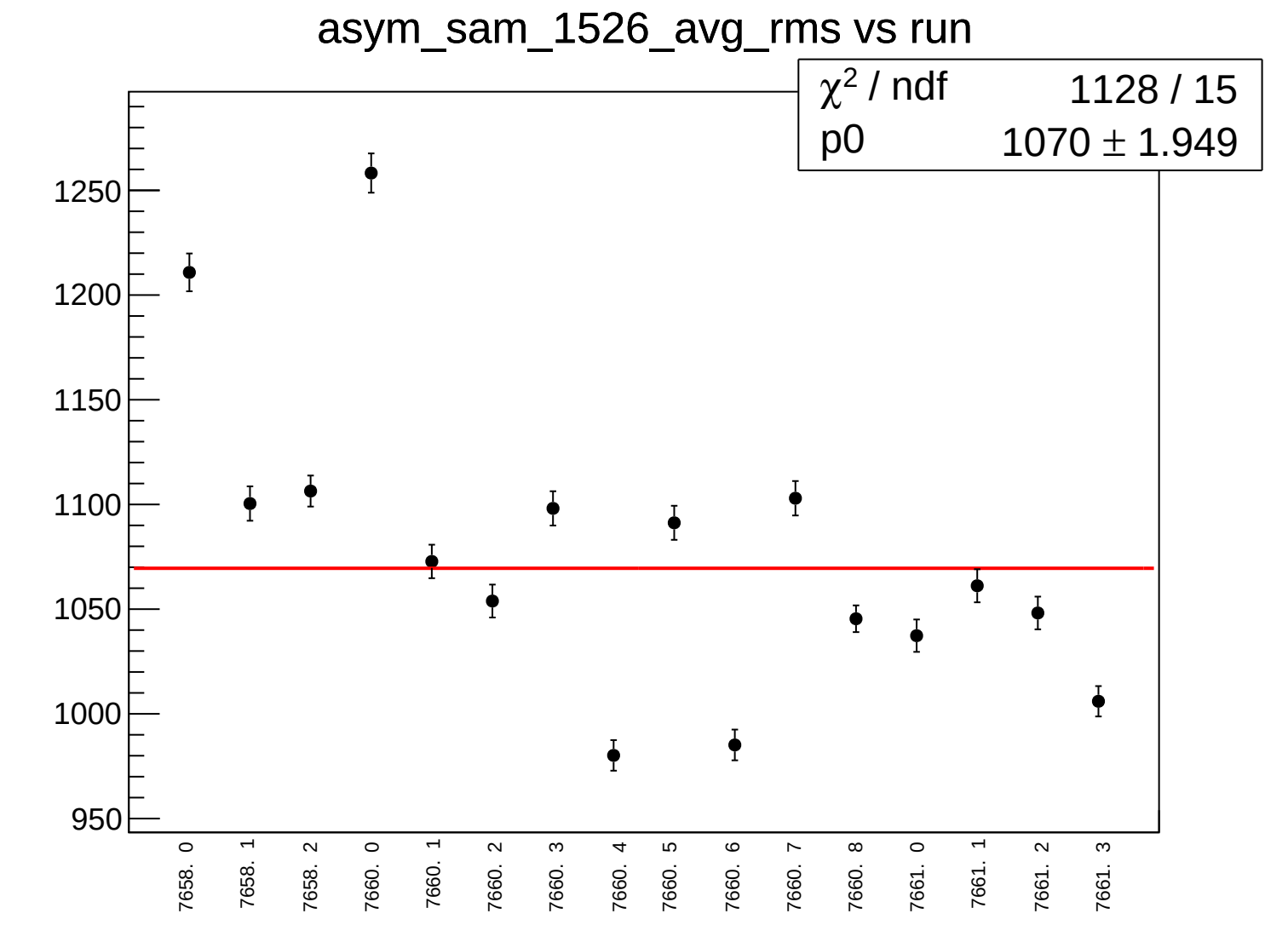

dit_asym_sam_1526_avg_rms vs run
χ² / ndf 1.103e+04 / 15
p0 154.3 ± 0.2858
350
300
250
200
150
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

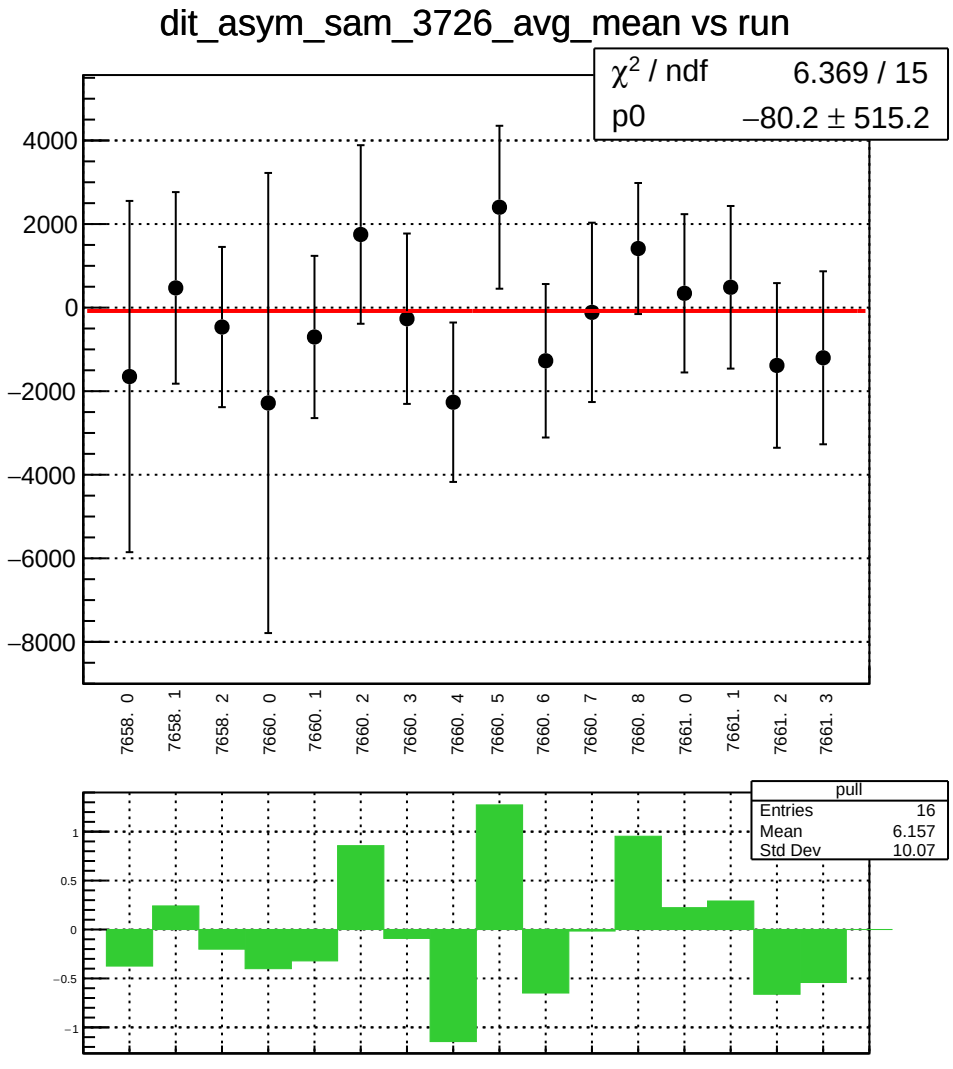

asym_sam_1526_avg_correction_mean vs run
χ² / ndf 16.68 / 15
p0 −284.8 ± 2710
30000
20000
10000
0
−10000
−20000
−30000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −59.47
Std Dev 65.58
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 16
Mean 0.01543
Std Dev 1.021
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

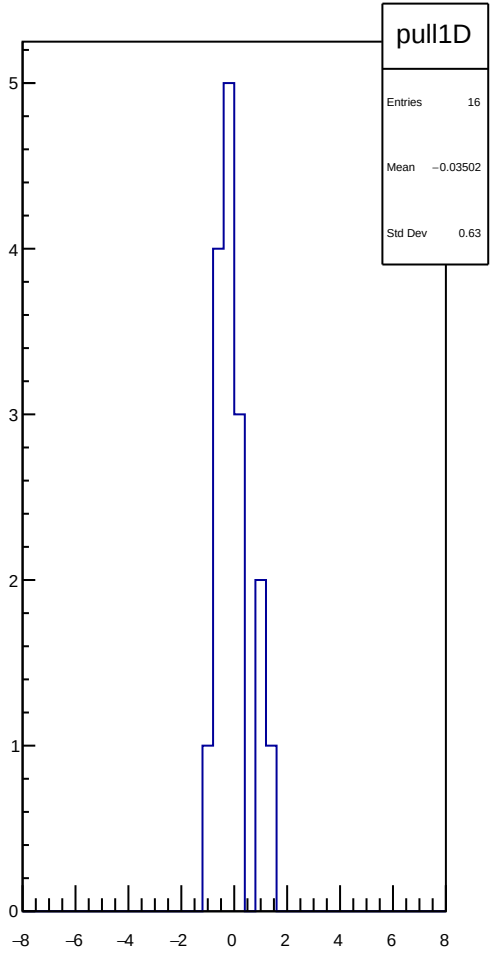

asym_sam_1526_avg_correction_rms vs run
χ² / ndf 399.5 / 15
p0 1053 ± 1.916
1120
1100
1080
1060
1040
1020
1000
980
960
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

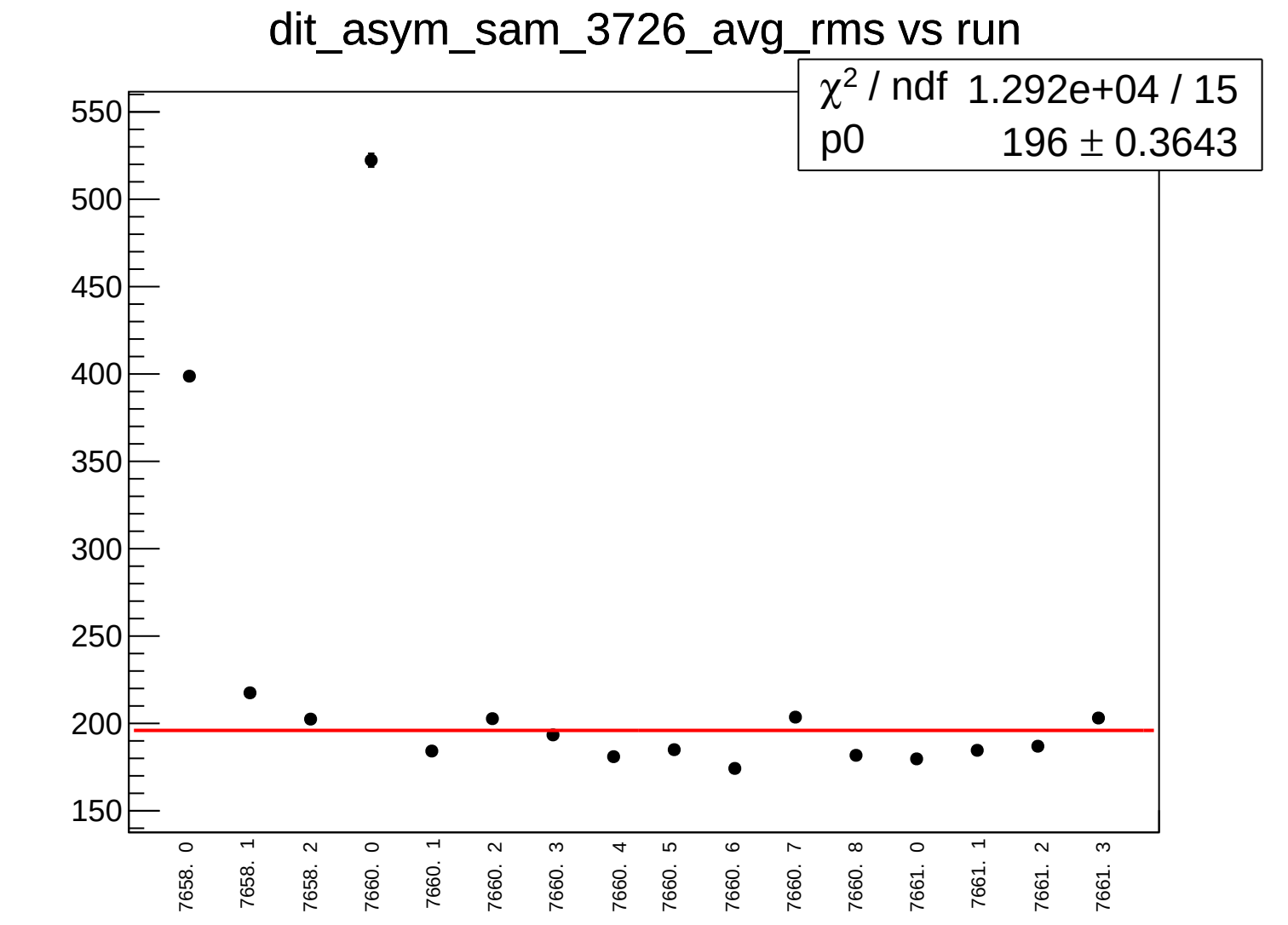

asym_sam_1526_avg_mean vs run
χ² / ndf 14.28 / 15
p0 459 ± 2756
30000
20000
10000
0
−10000
−20000
−30000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −22.99
Std Dev 28.94
1.5
1
0.5
0
−0.5
−1
−1.5

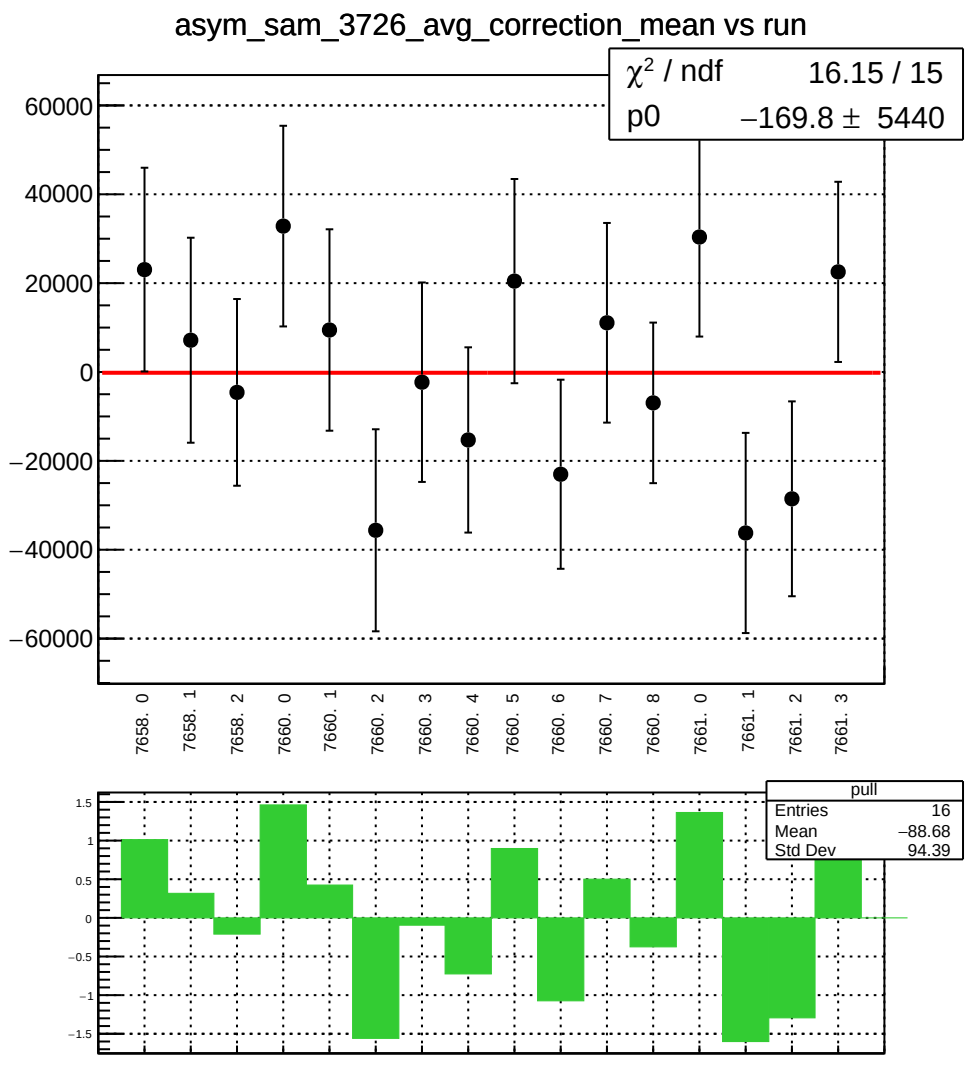

pull1D
Entries 16
Mean −0.02924
Std Dev 0.9443
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

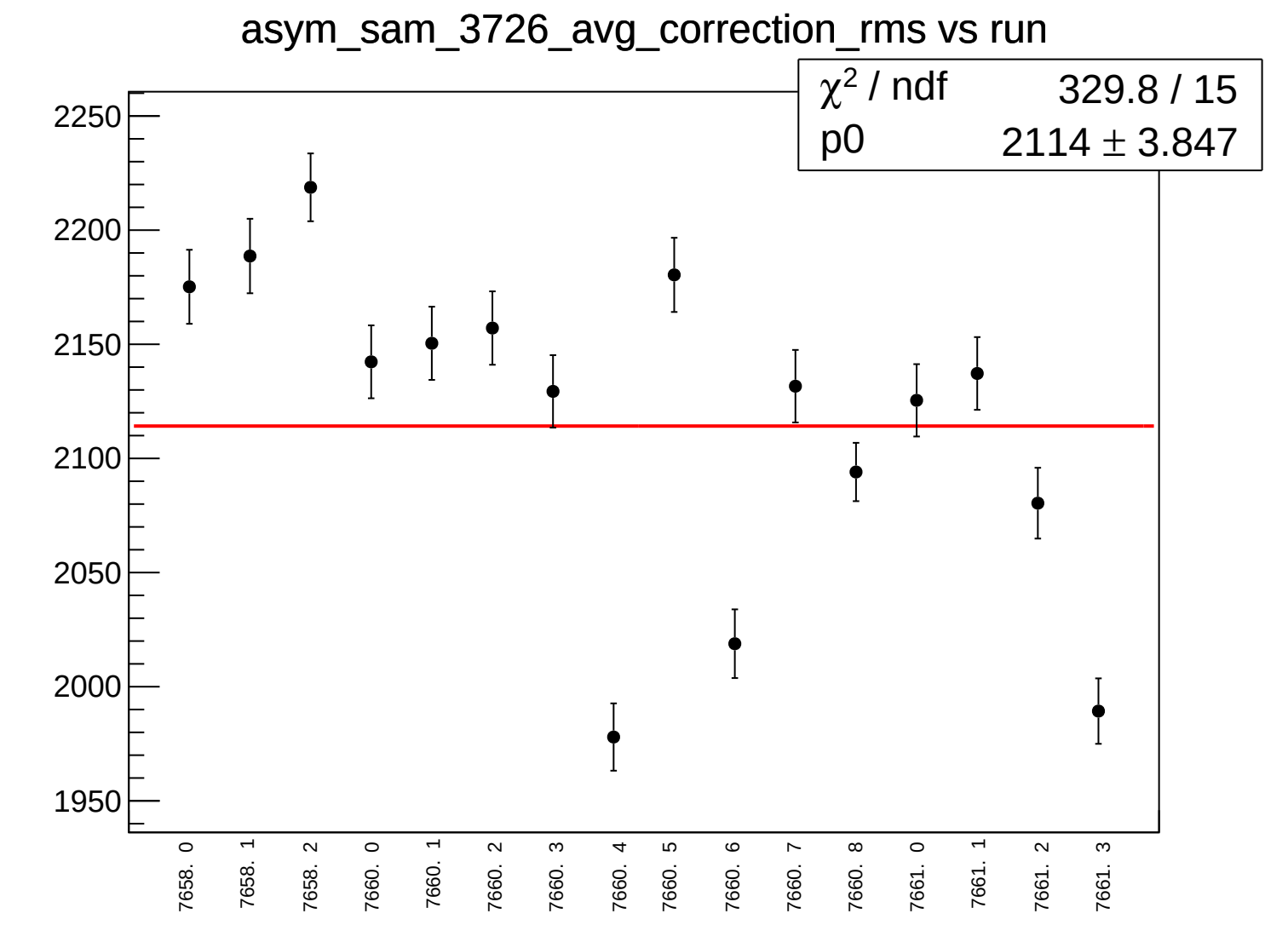

asym_sam_1526_avg_rms vs run
χ² / ndf 1128 / 15
p0 1070 ± 1.949
1250
1200
1150
1100
1050
1000
950
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

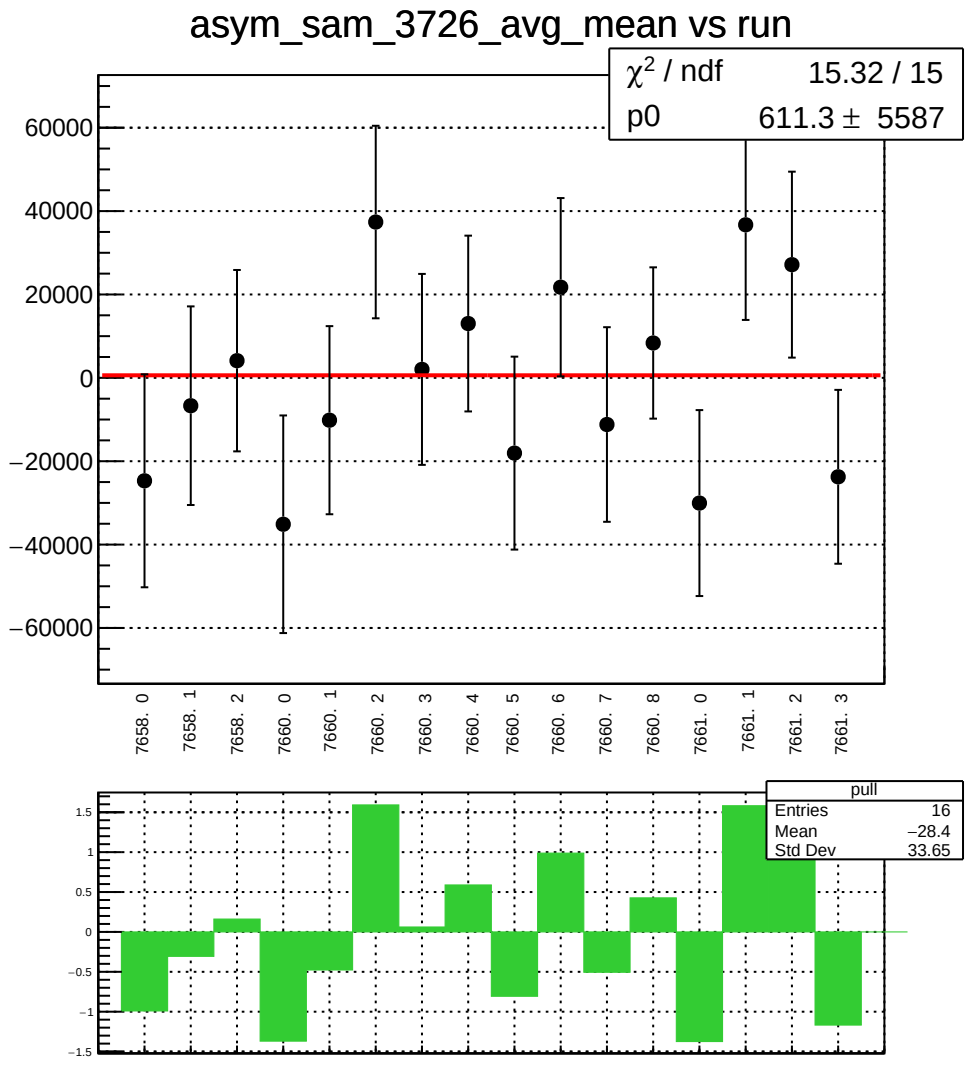

dit_asym_sam_3726_avg_mean vs run
χ² / ndf 6.369 / 15
p0 −80.2 ± 515.2
4000
2000
0
−2000
−4000
−6000
−8000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 6.157
Std Dev 10.07
1
0.5
0
−0.5
−1

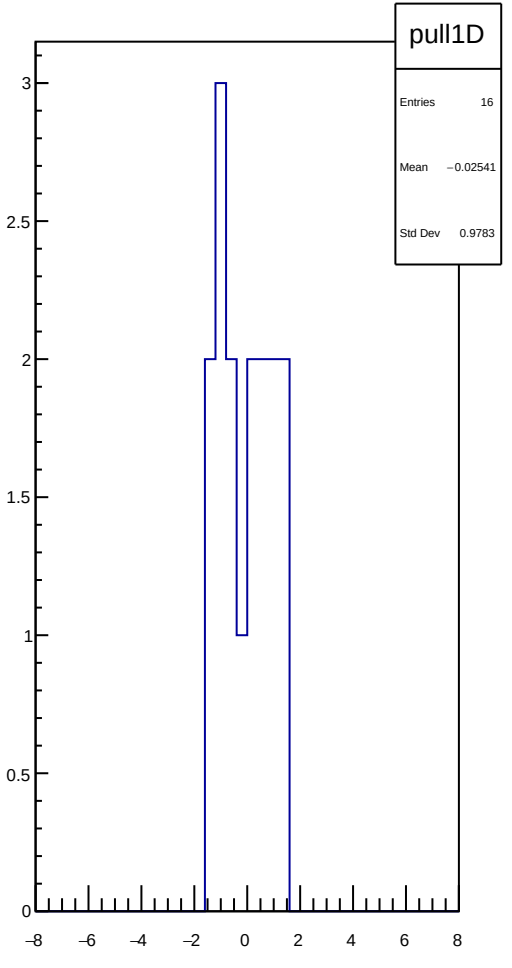

pull1D
Entries 16
Mean −0.03502
Std Dev 0.63
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

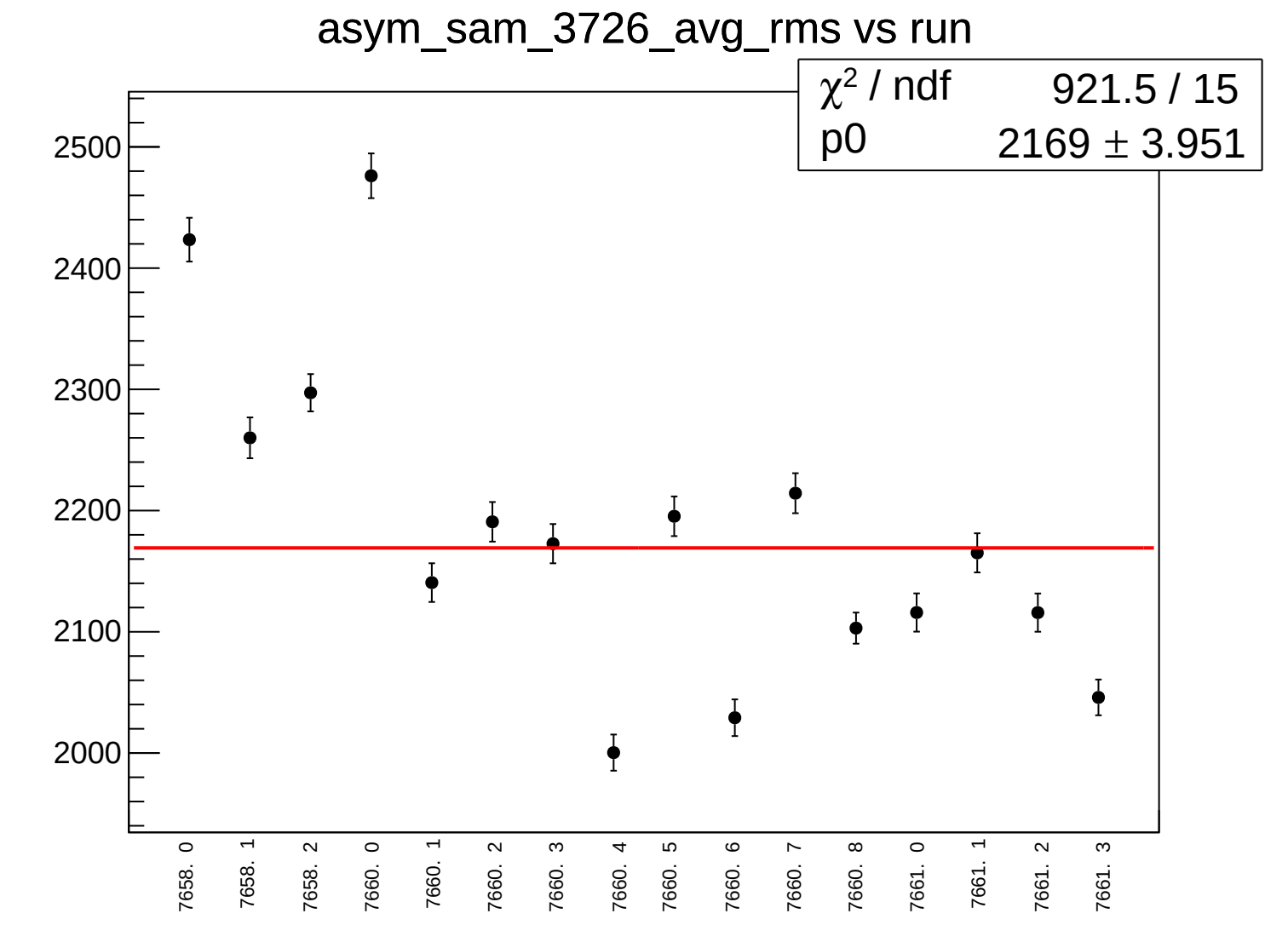

dit_asym_sam_3726_avg_rms vs run
χ² / ndf 1.292e+04 / 15
p0 196 ± 0.3643
550
500
450
400
350
300
250
200
150
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

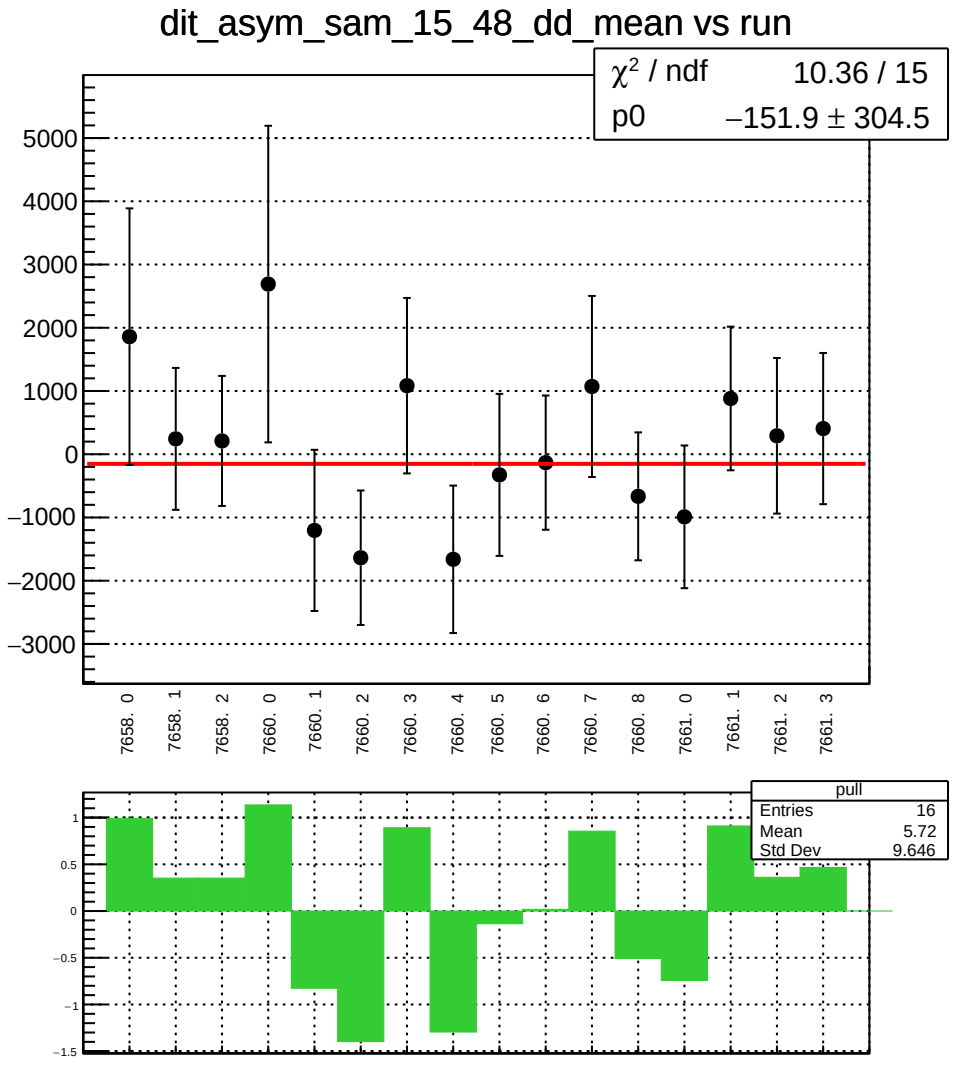

asym_sam_3726_avg_correction_mean vs run
χ² / ndf 16.15 / 15
p0 −169.8 ± 5440
60000
40000
20000
0
−20000
−40000
−60000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −88.68
Std Dev 94.39
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 16
Mean 0.01038
Std Dev 1.005
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

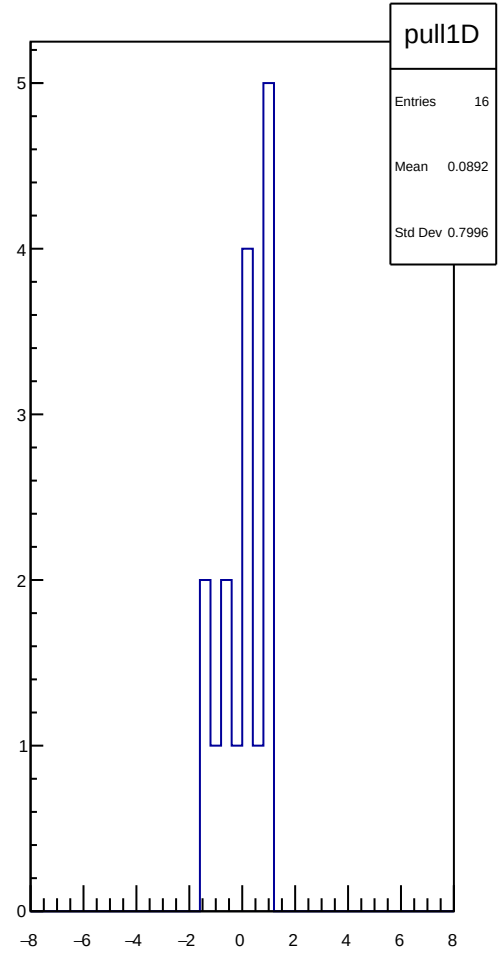

asym_sam_3726_avg_correction_rms vs run
χ² / ndf 329.8 / 15
p0 2114 ± 3.847
2250
2200
2150
2100
2050
2000
1950
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

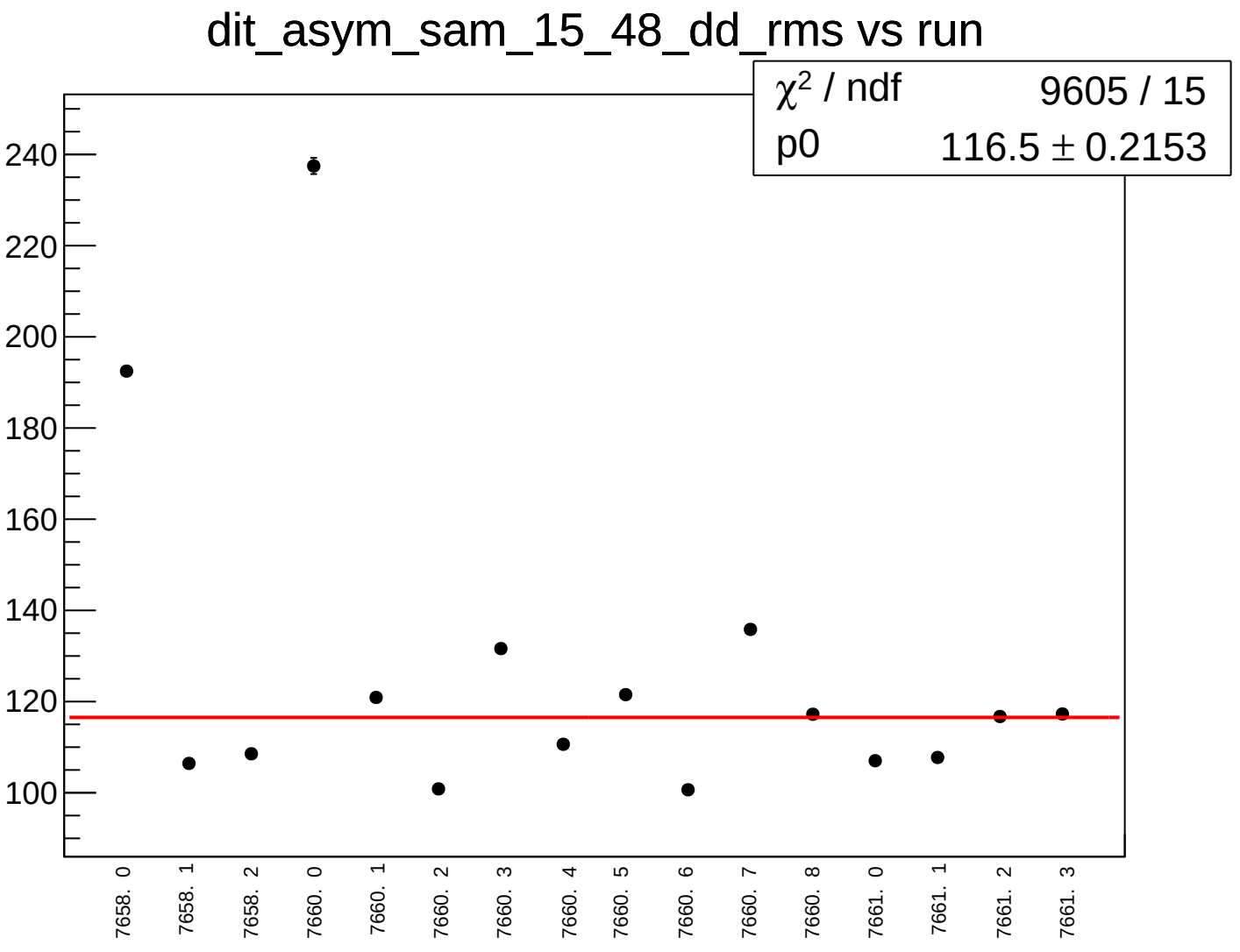

asym_sam_3726_avg_mean vs run
χ² / ndf 15.32 / 15
p0 611.3 ± 5587
60000
40000
20000
0
−20000
−40000
−60000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −28.4
Std Dev 33.65
1.5
1
0.5
0
−0.5
−1
−1.5

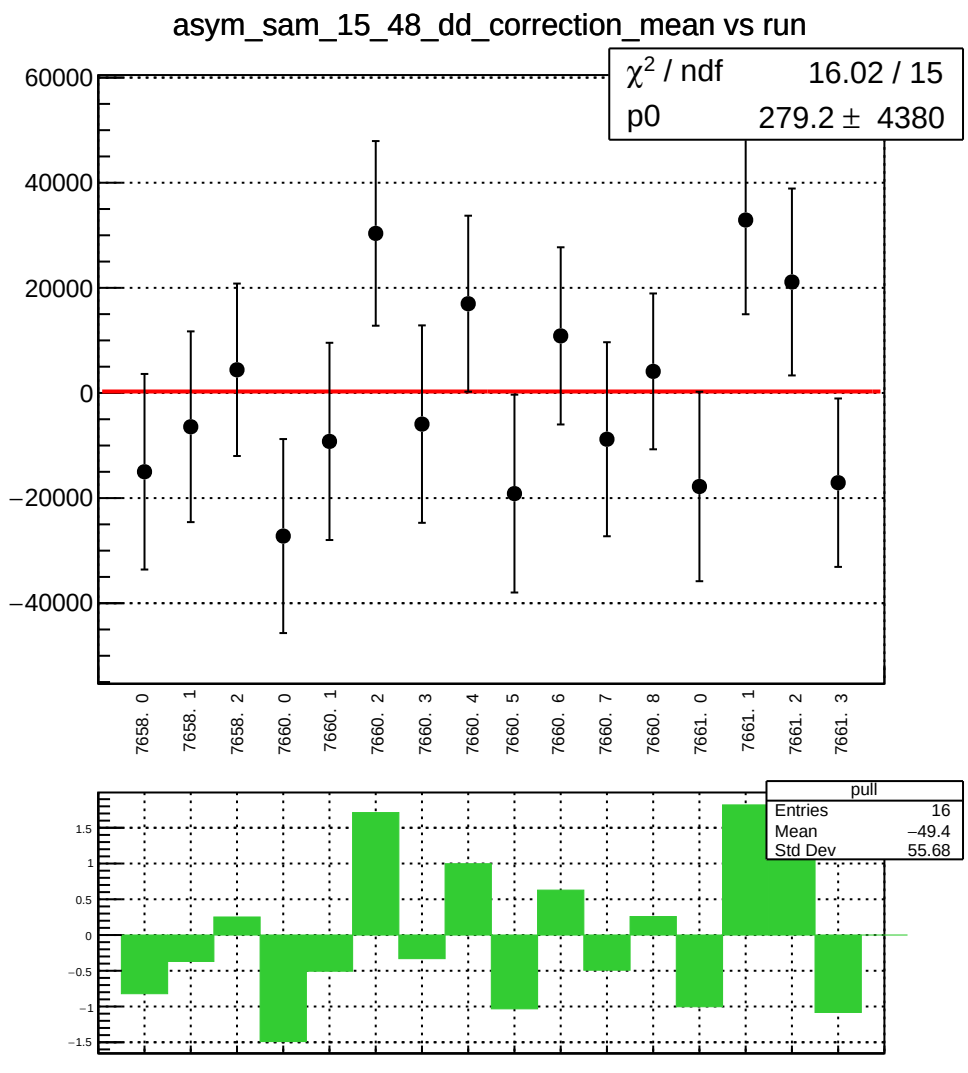

pull1D
Entries 16
Mean −0.02541
Std Dev 0.9783
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

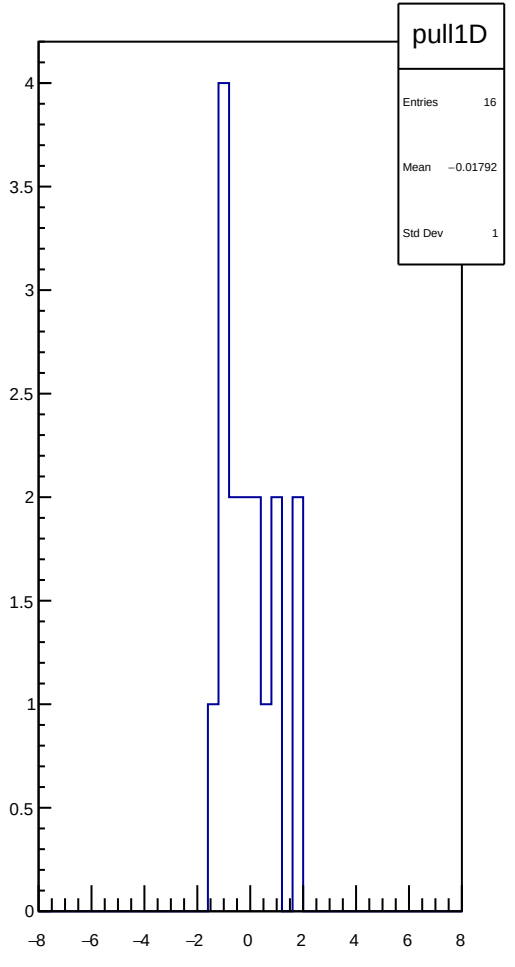

asym_sam_3726_avg_rms vs run
χ² / ndf 921.5 / 15
p0 2169 ± 3.951
2500
2400
2300
2200
2100
2000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

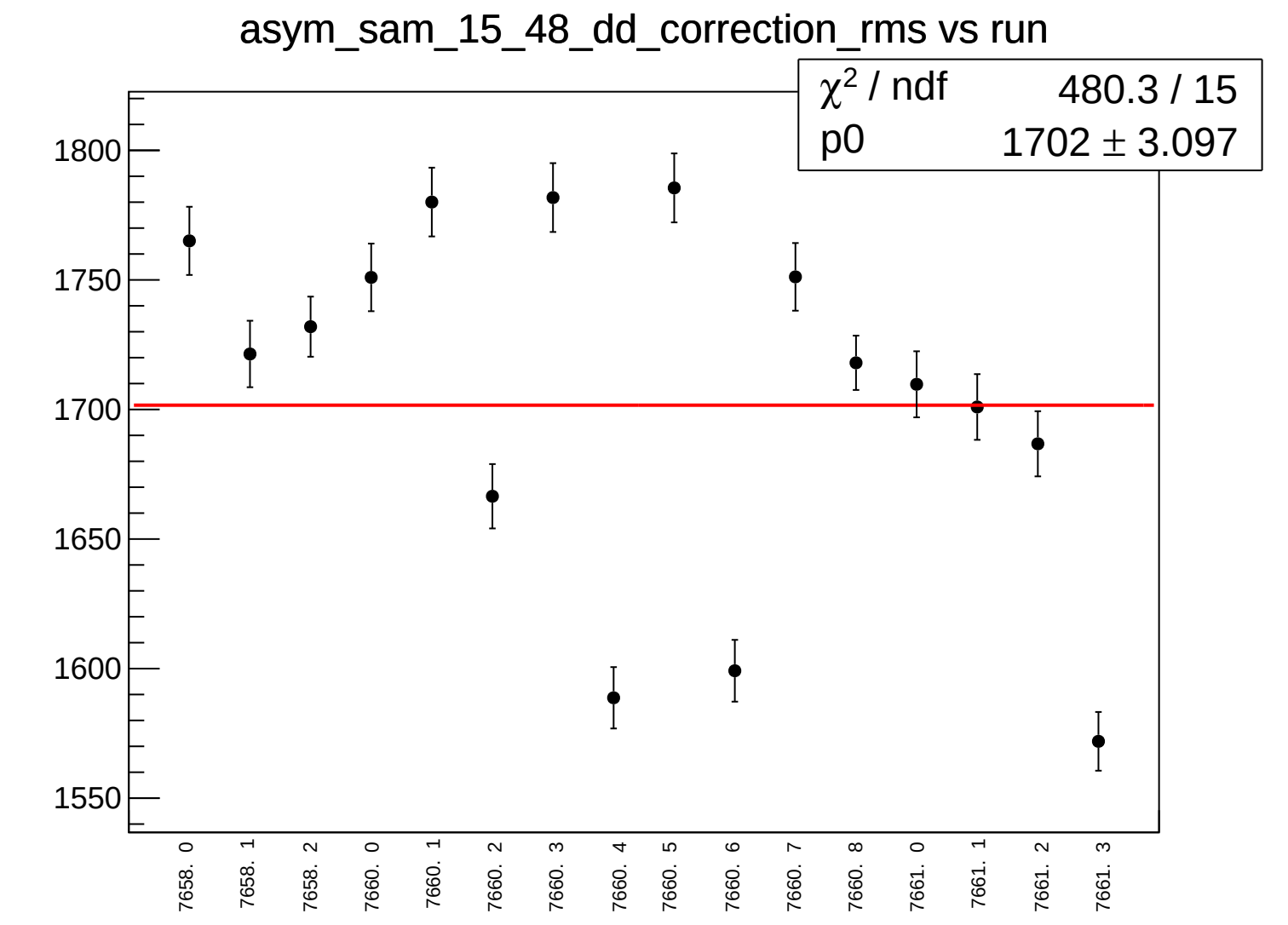

dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 10.36 / 15
p0 −151.9 ± 304.5
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 5.72
Std Dev 9.646
1
0.5
0
−0.5
−1
−1.5

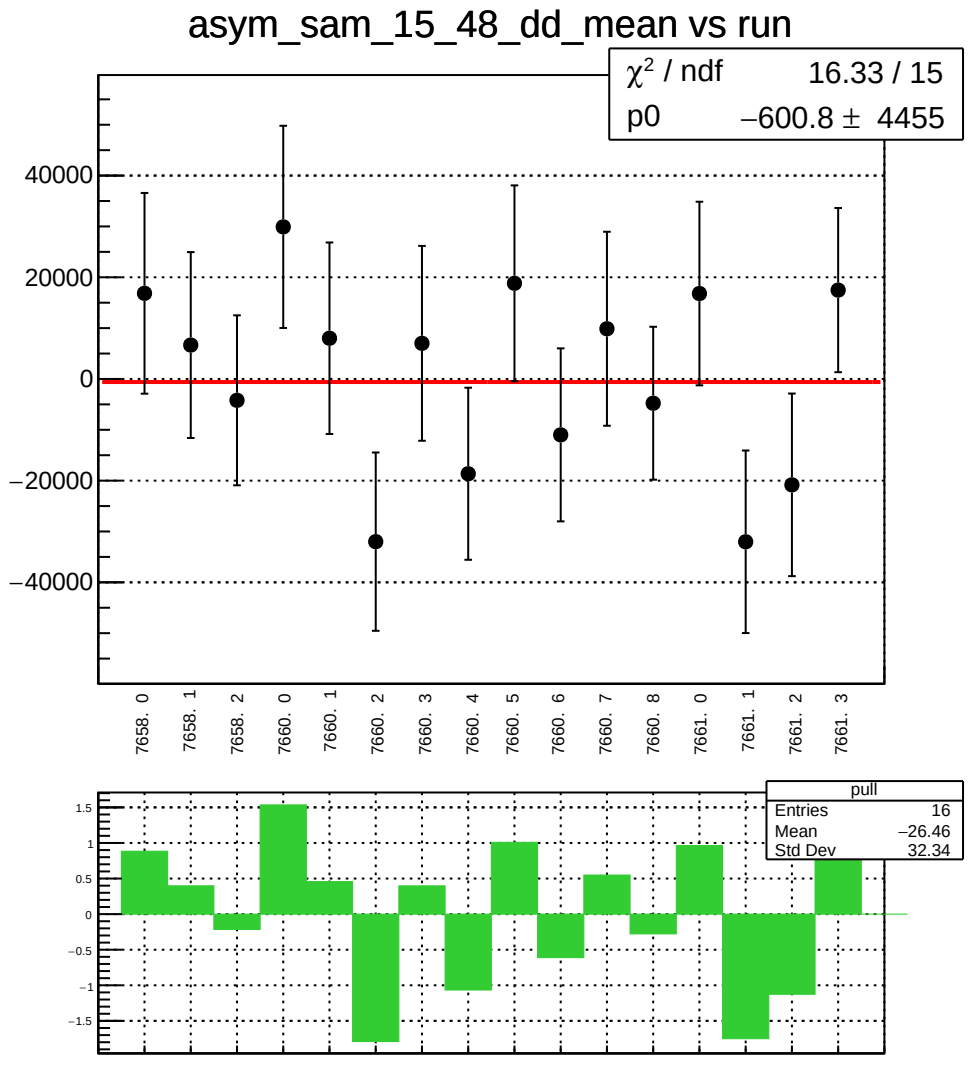

pull1D
Entries 16
Mean 0.0892
Std Dev 0.7996
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

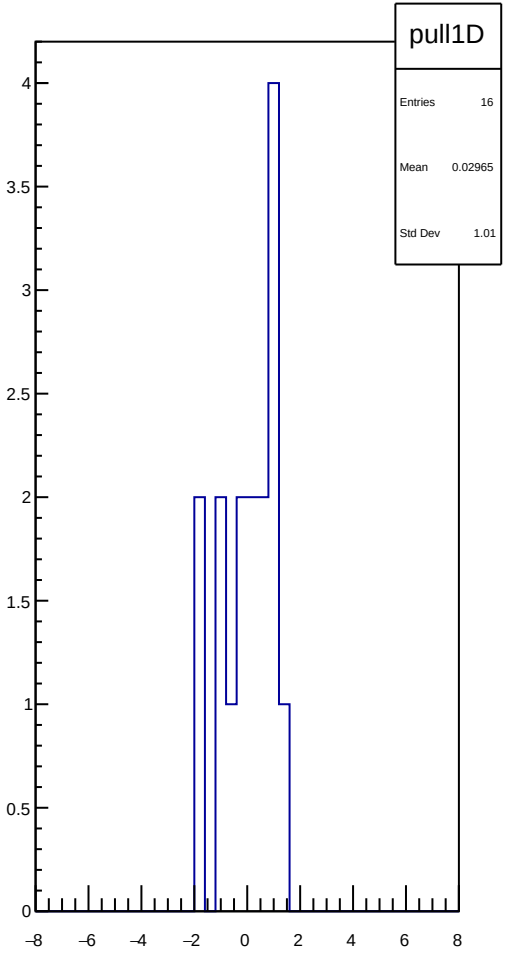

dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 9605 / 15
p0 116.5 ± 0.2153
240
220
200
180
160
140
120
100
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

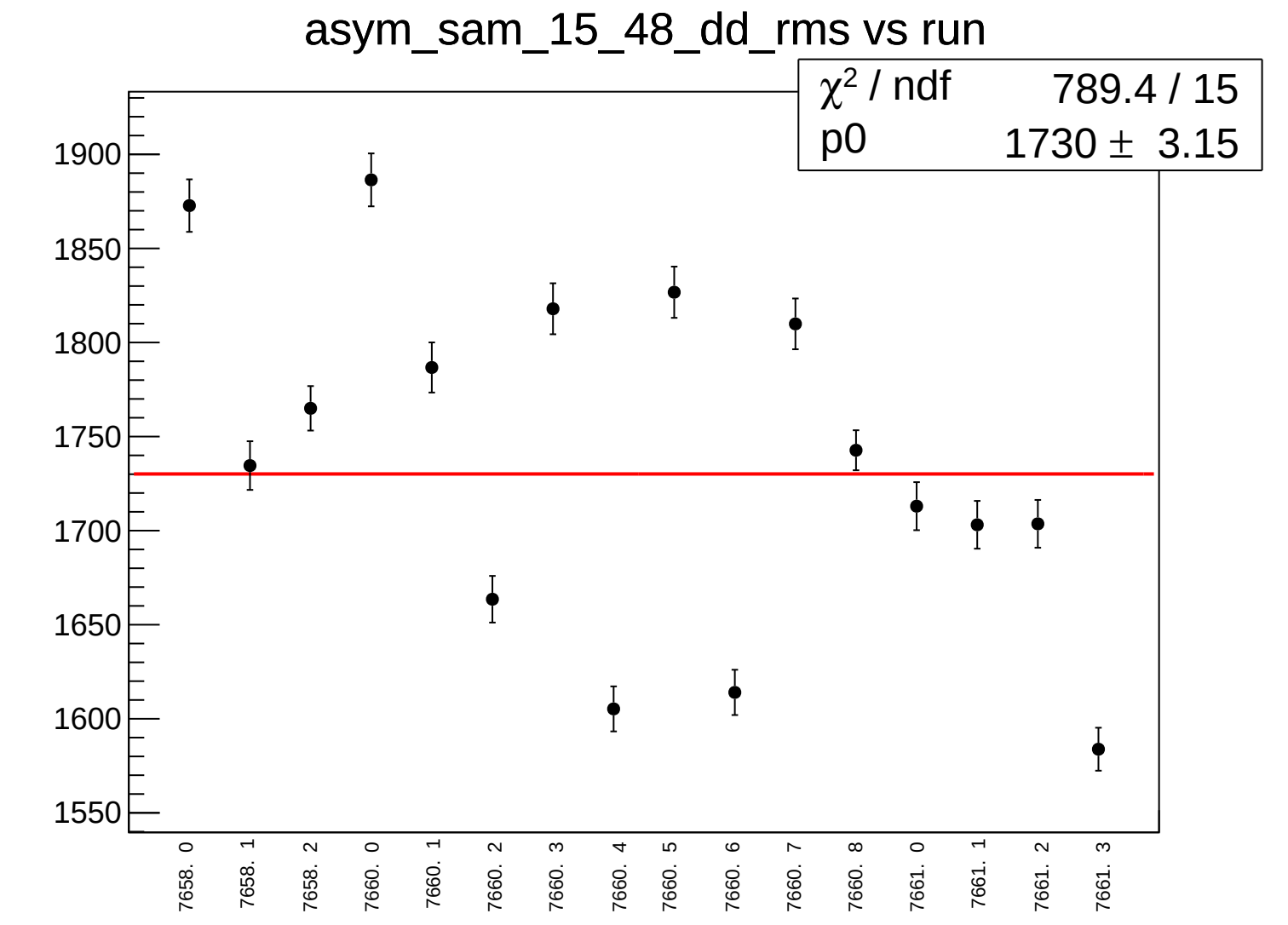

asym_sam_15_48_dd_correction_mean vs run
χ² / ndf 16.02 / 15
p0 279.2 ± 4380
60000
40000
20000
0
−20000
−40000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −49.4
Std Dev 55.68
1.5
1
0.5
0
−0.5
−1
−1.5

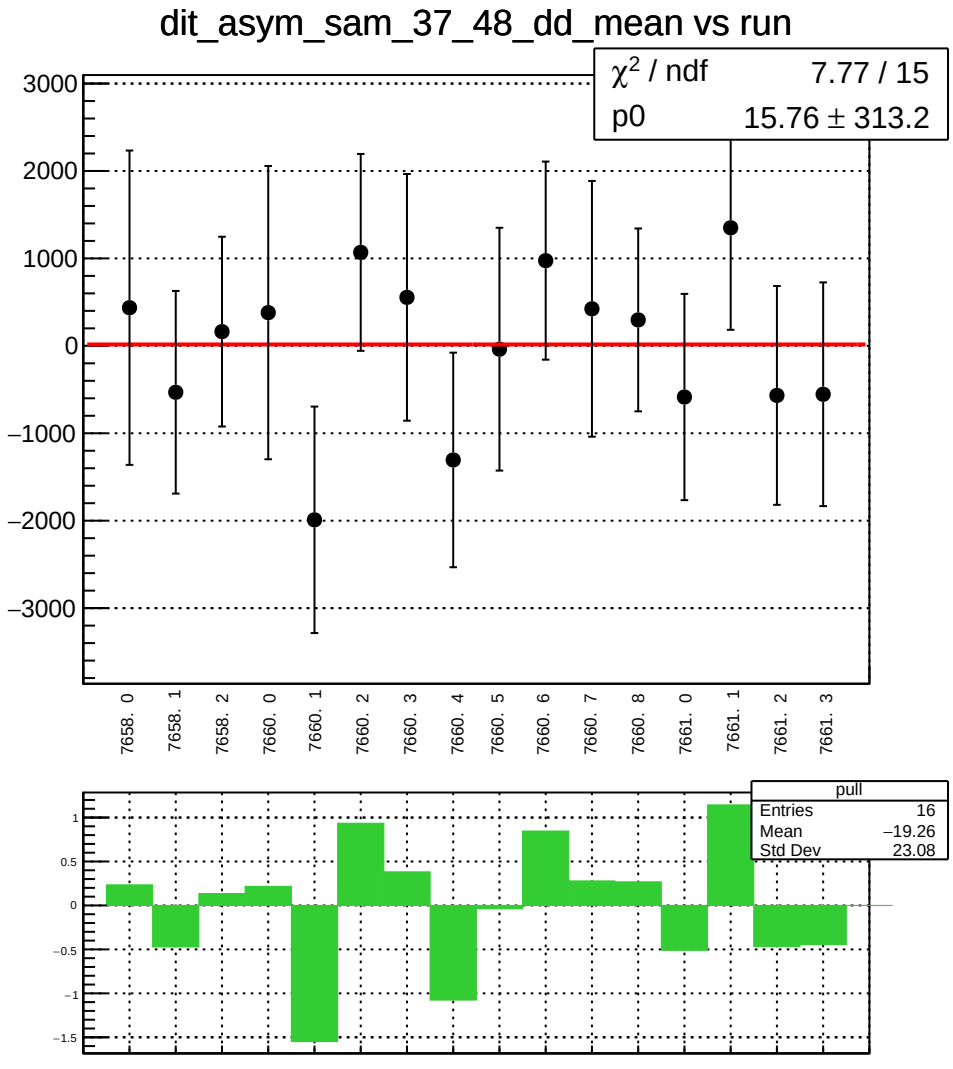

pull1D
Entries 16
Mean −0.01792
Std Dev 1
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

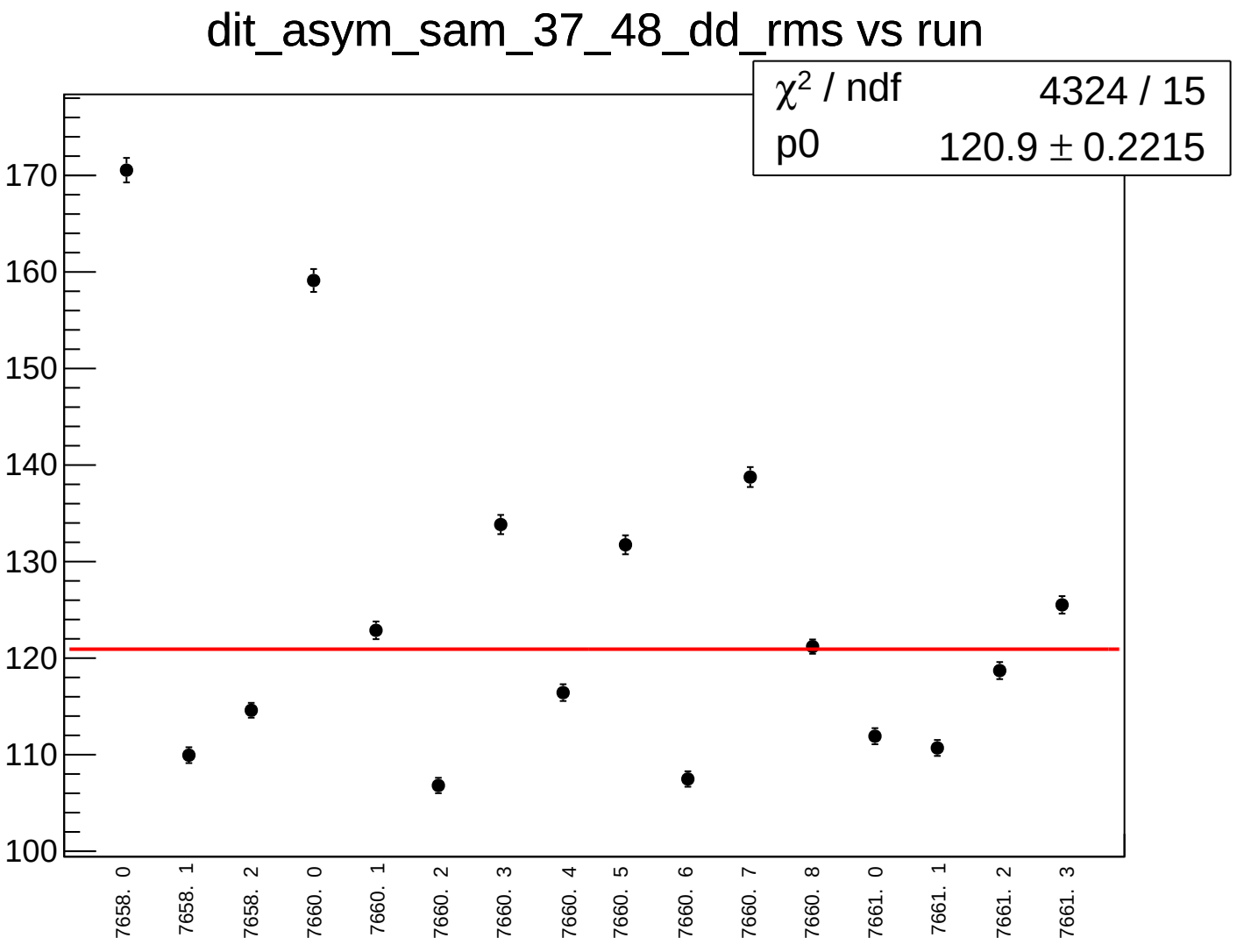

asym_sam_15_48_dd_correction_rms vs run
χ² / ndf 480.3 / 15
p0 1702 ± 3.097
1800
1750
1700
1650
1600
1550
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

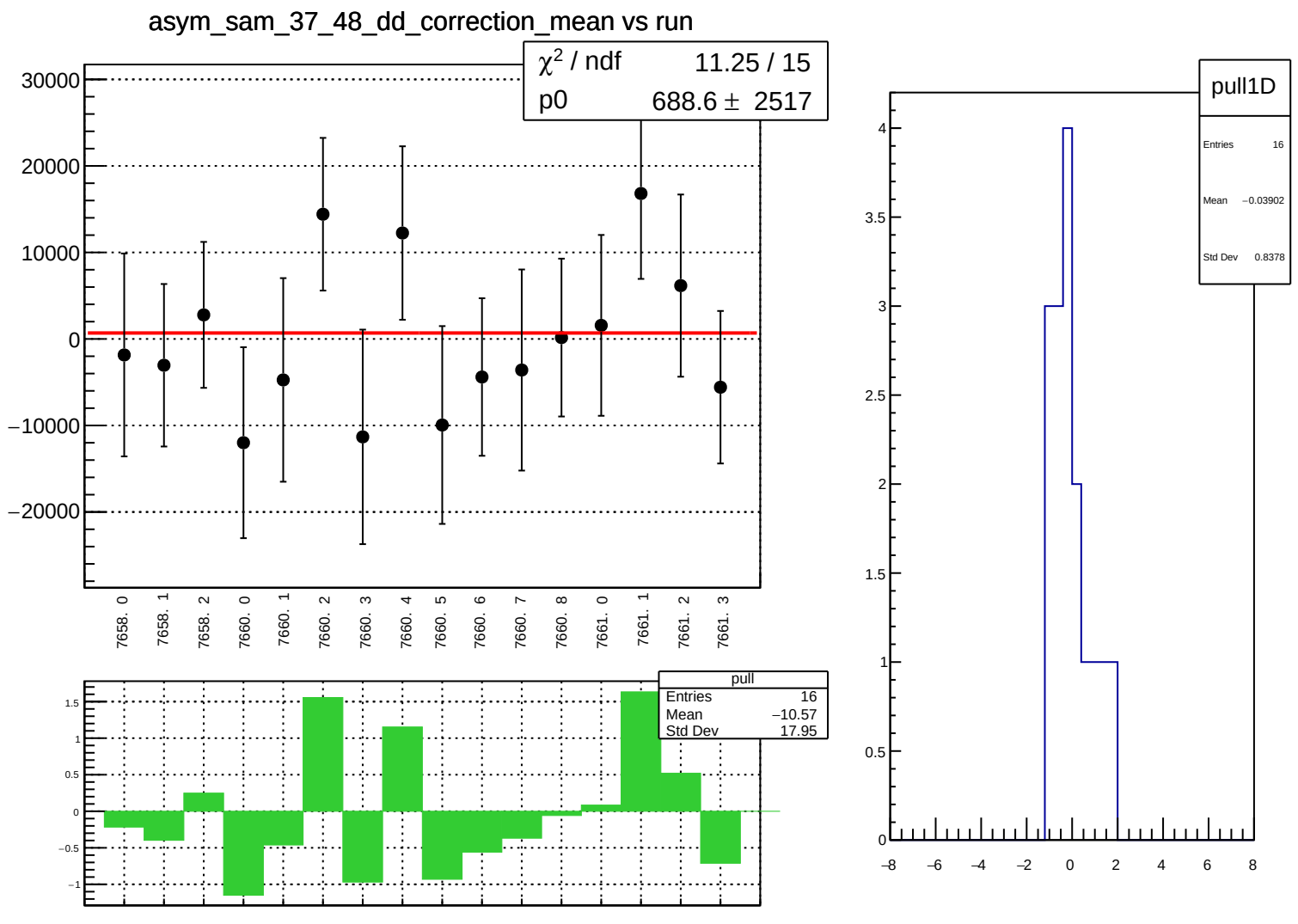

asym_sam_15_48_dd_mean vs run
χ² / ndf 16.33 / 15
p0 −600.8 ± 4455
40000
20000
0
−20000
−40000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −26.46
Std Dev 32.34
1.5
1
0.5
0
−0.5
−1
−1.5

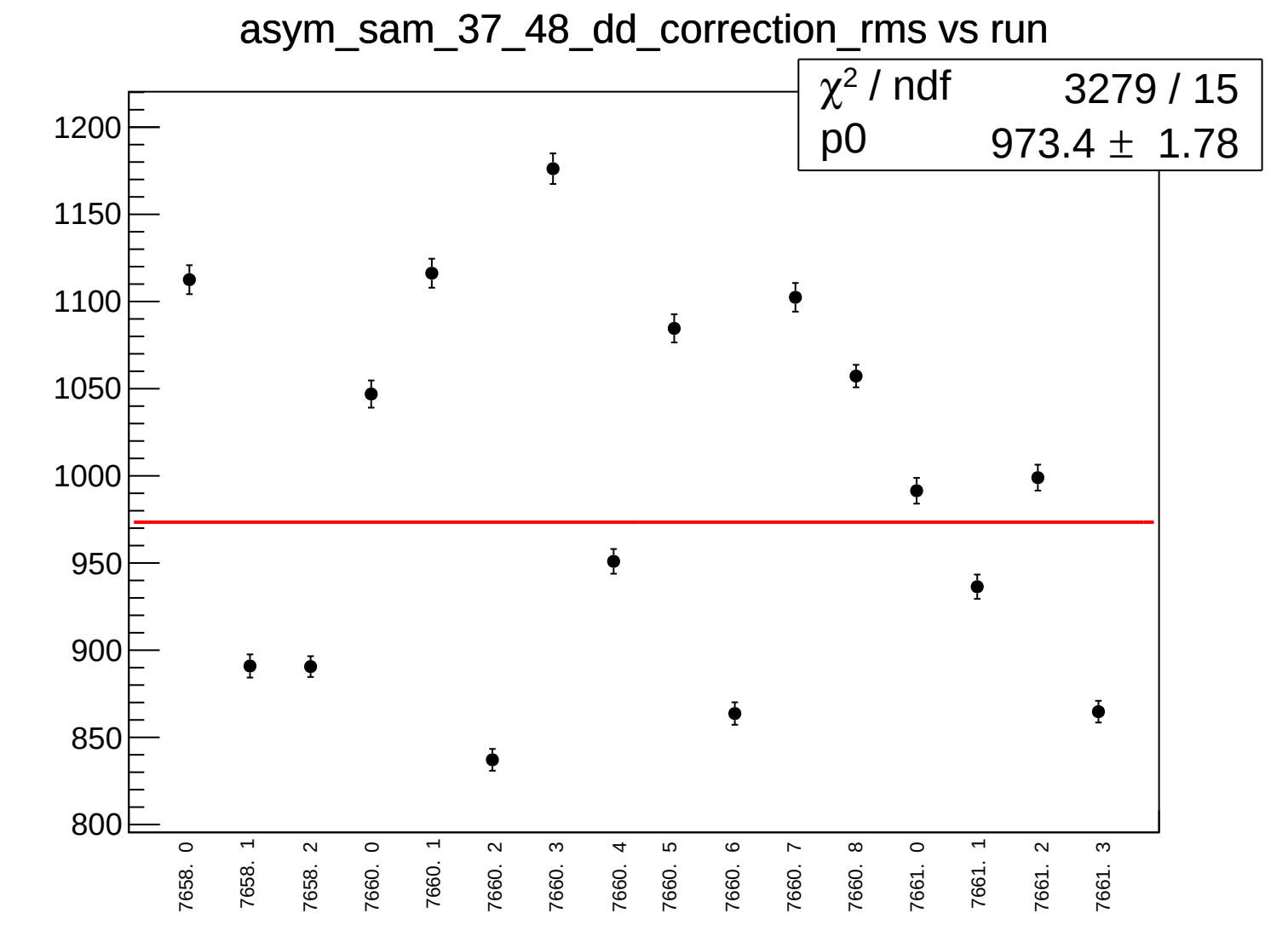

pull1D
Entries 16
Mean 0.02965
Std Dev 1.01
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

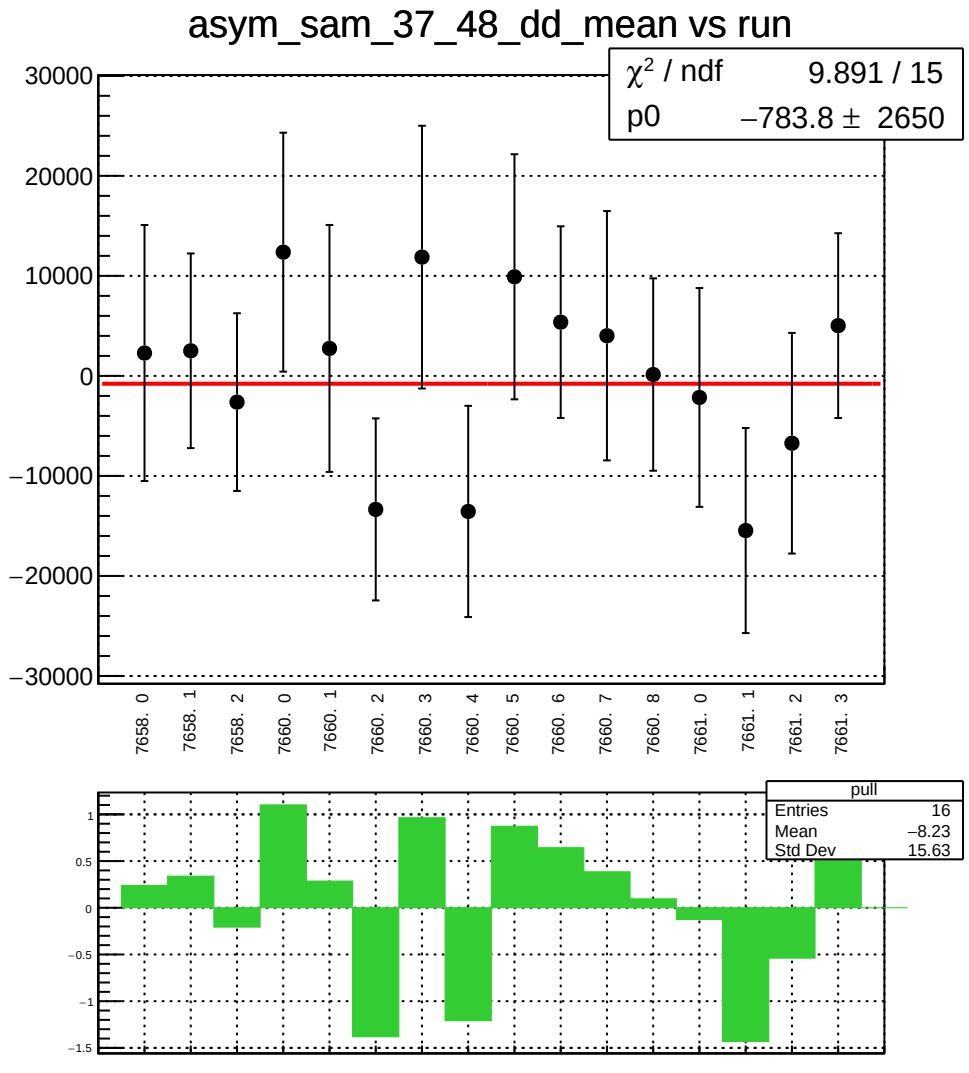

asym_sam_15_48_dd_rms vs run
χ² / ndf 789.4 / 15
p0 1730 ± 3.15
1900
1850
1800
1750
1700
1650
1600
1550
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

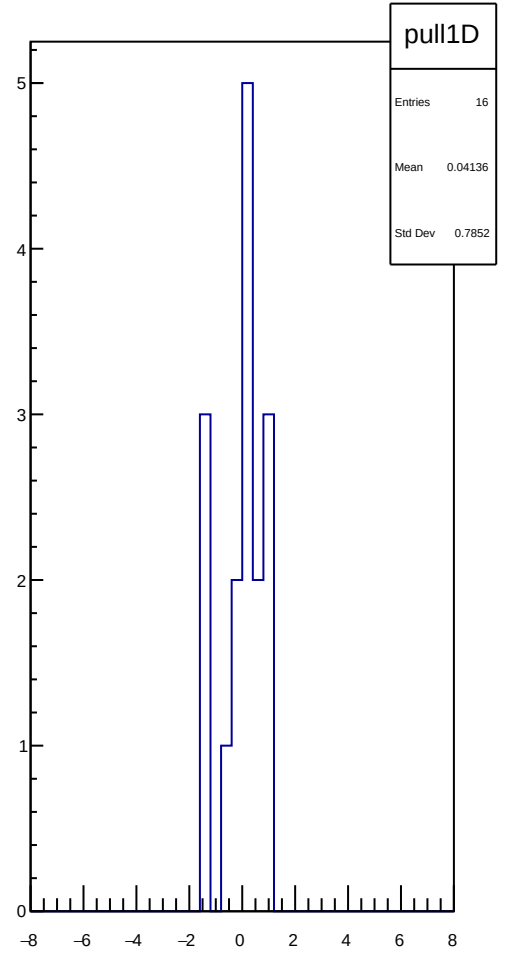

dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 7.77 / 15
p0 15.76 ± 313.2
3000
2000
1000
0
−1000
−2000
−3000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −19.26
Std Dev 23.08
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 16
Mean −0.007236
Std Dev 0.6968
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

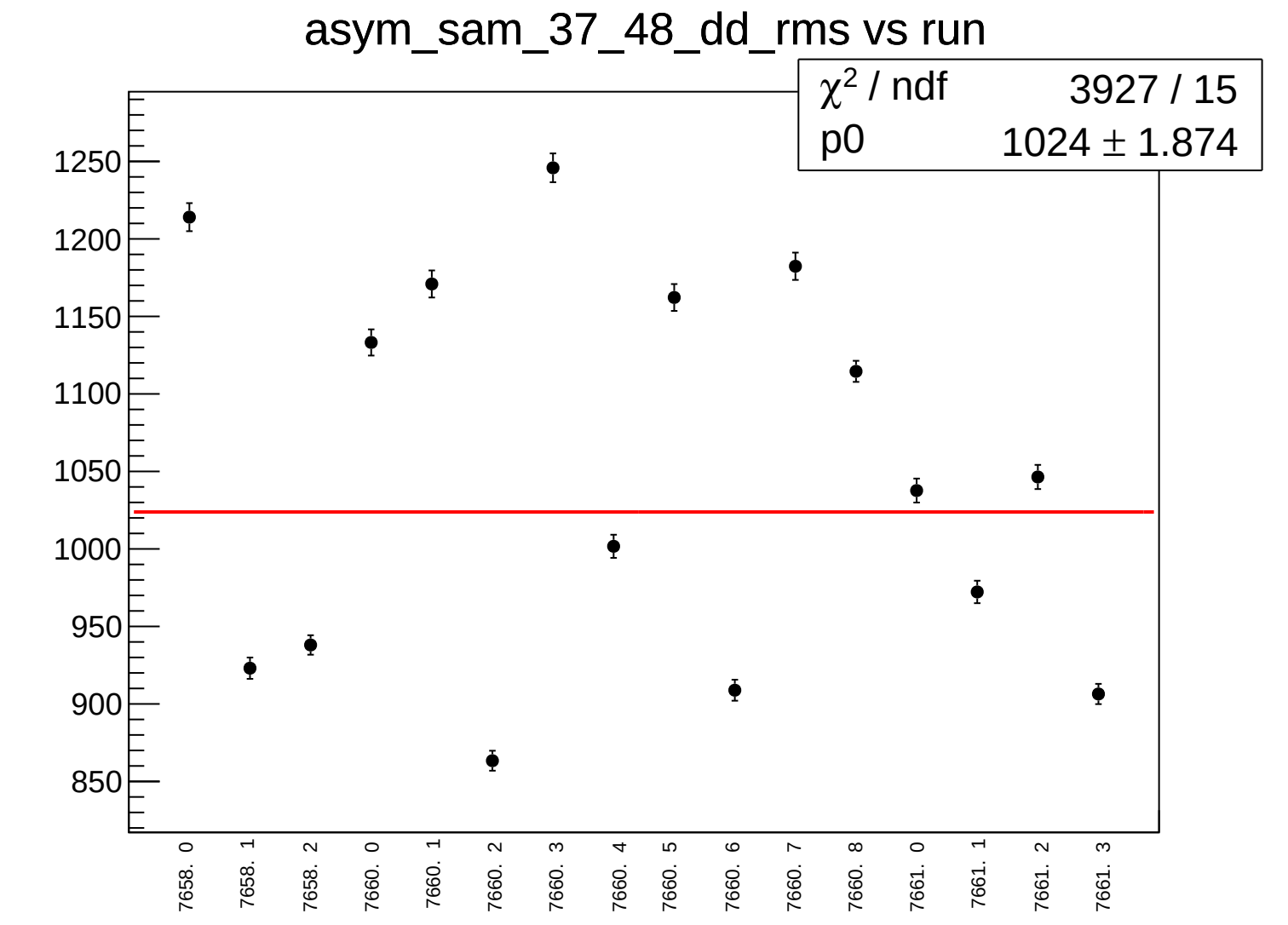

dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 4324 / 15
p0 120.9 ± 0.2215
170
160
150
140
130
120
110
100
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

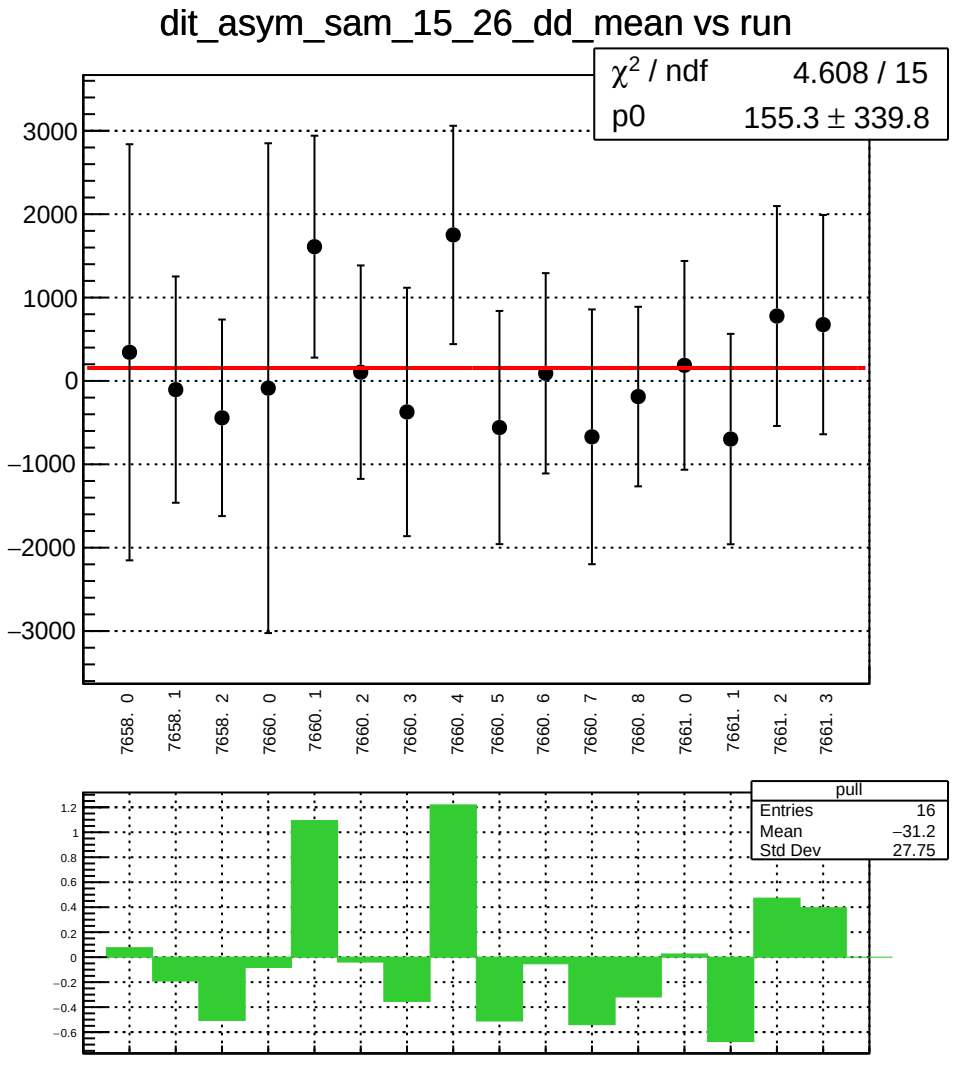

asym_sam_37_48_dd_correction_mean vs run
χ² / ndf 11.25 / 15
p0 688.6 ± 2517
30000
20000
10000
0
−10000
−20000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −10.57
Std Dev 17.95
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 16
Mean −0.03902
Std Dev 0.8378
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

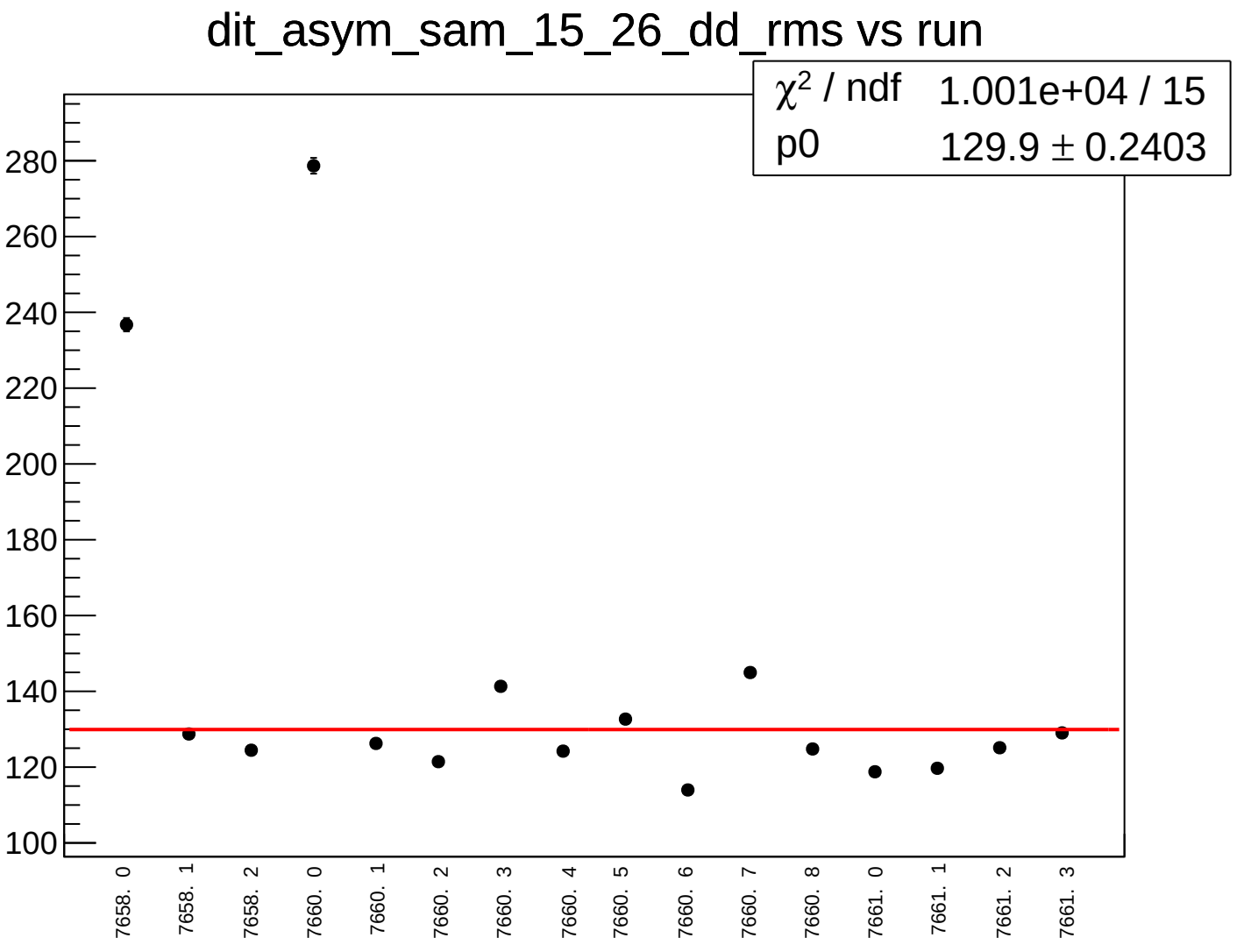

asym_sam_37_48_dd_correction_rms vs run
χ² / ndf 3279 / 15
p0 973.4 ± 1.78
1200
1150
1100
1050
1000
950
900
850
800
17658. 0
17658. 1
17658. 2
17660. 0
17660. 1
17660. 2
17660. 3
17660. 4
17660. 5
17660. 6
17660. 7
17660. 8
17661. 0
17661. 1
17661. 2
17661. 3

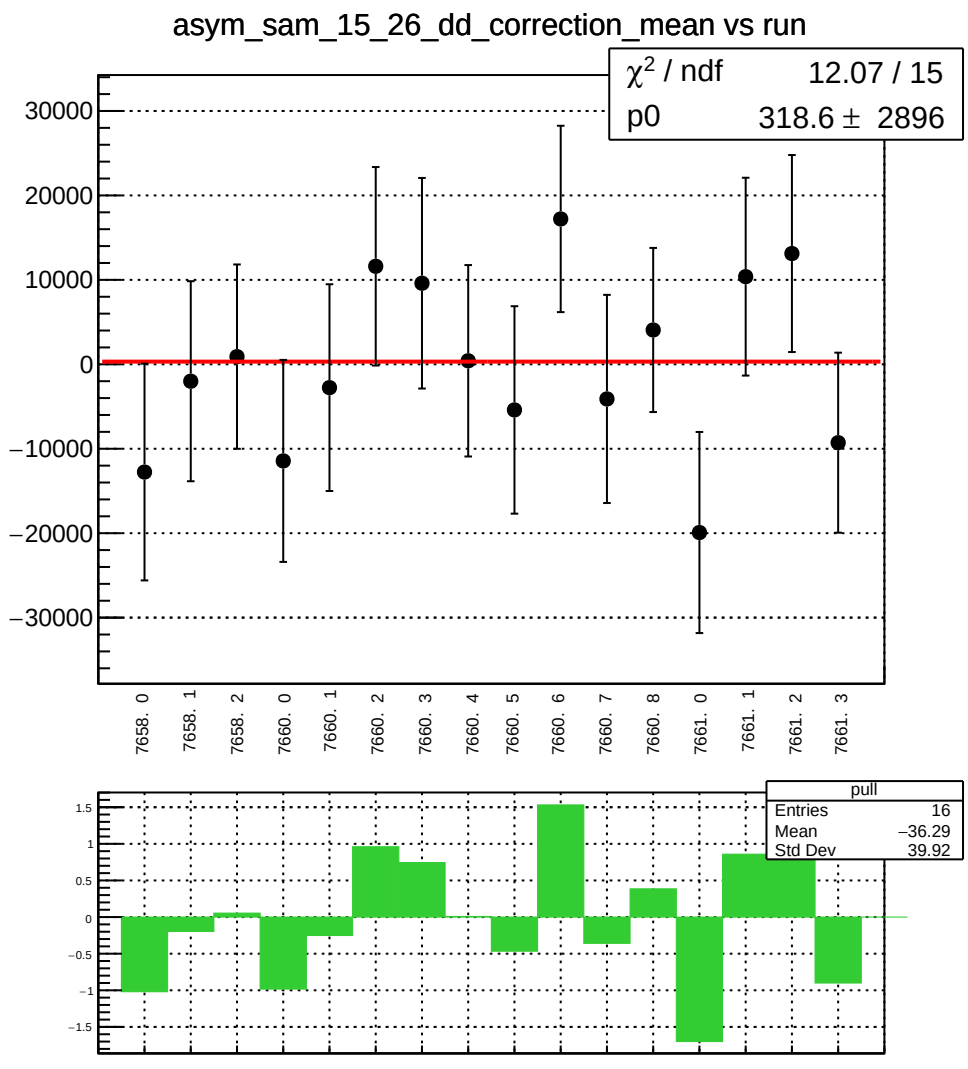

asym_sam_37_48_dd_mean vs run
χ² / ndf 9.891 / 15
p0 −783.8 ± 2650
30000
20000
10000
0
−10000
−20000
−30000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −8.23
Std Dev 15.63
1
0.5
0
−0.5
−1
−1.5

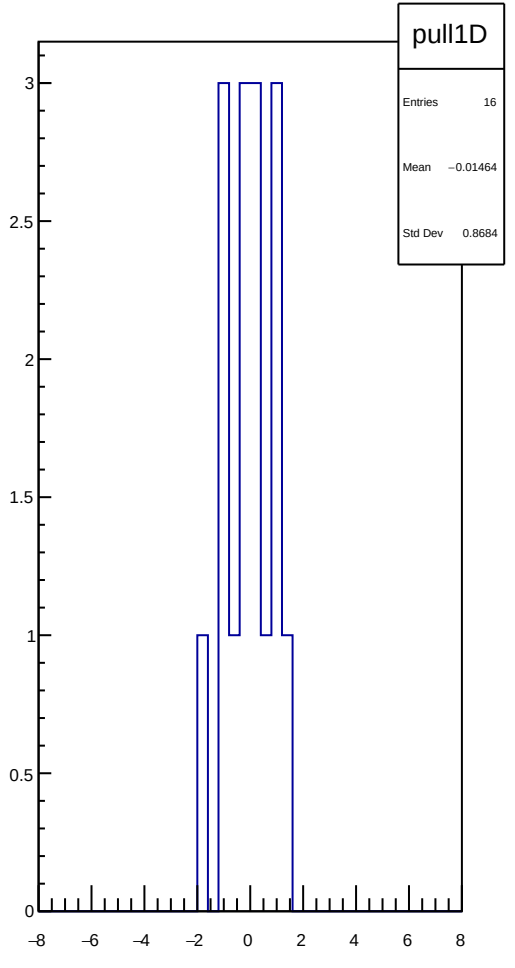

pull1D
Entries 16
Mean 0.04136
Std Dev 0.7852
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

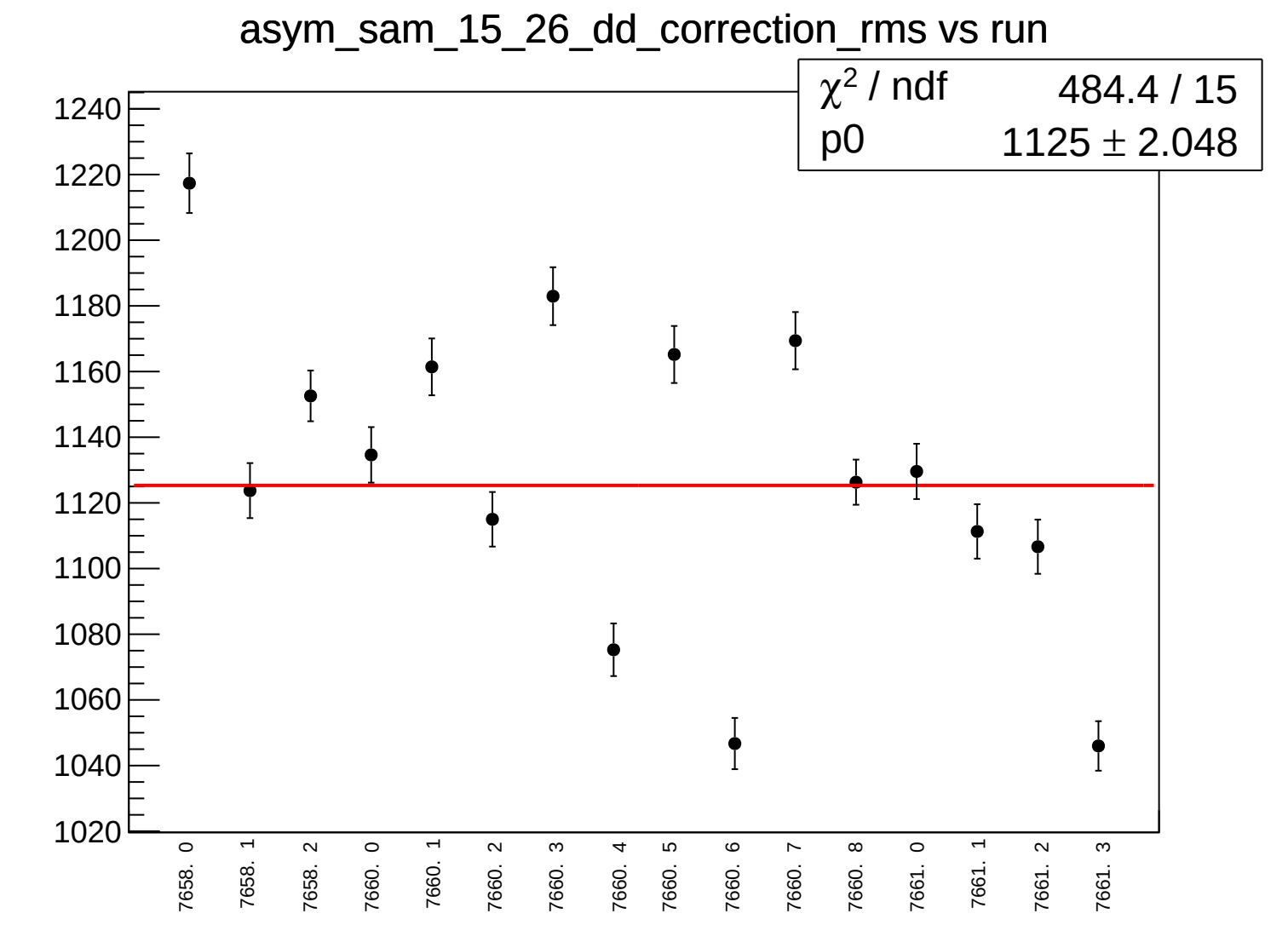

asym_sam_37_48_dd_rms vs run
χ² / ndf 3927 / 15
p0 1024 ± 1.874
1250
1200
1150
1100
1050
1000
950
900
850
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

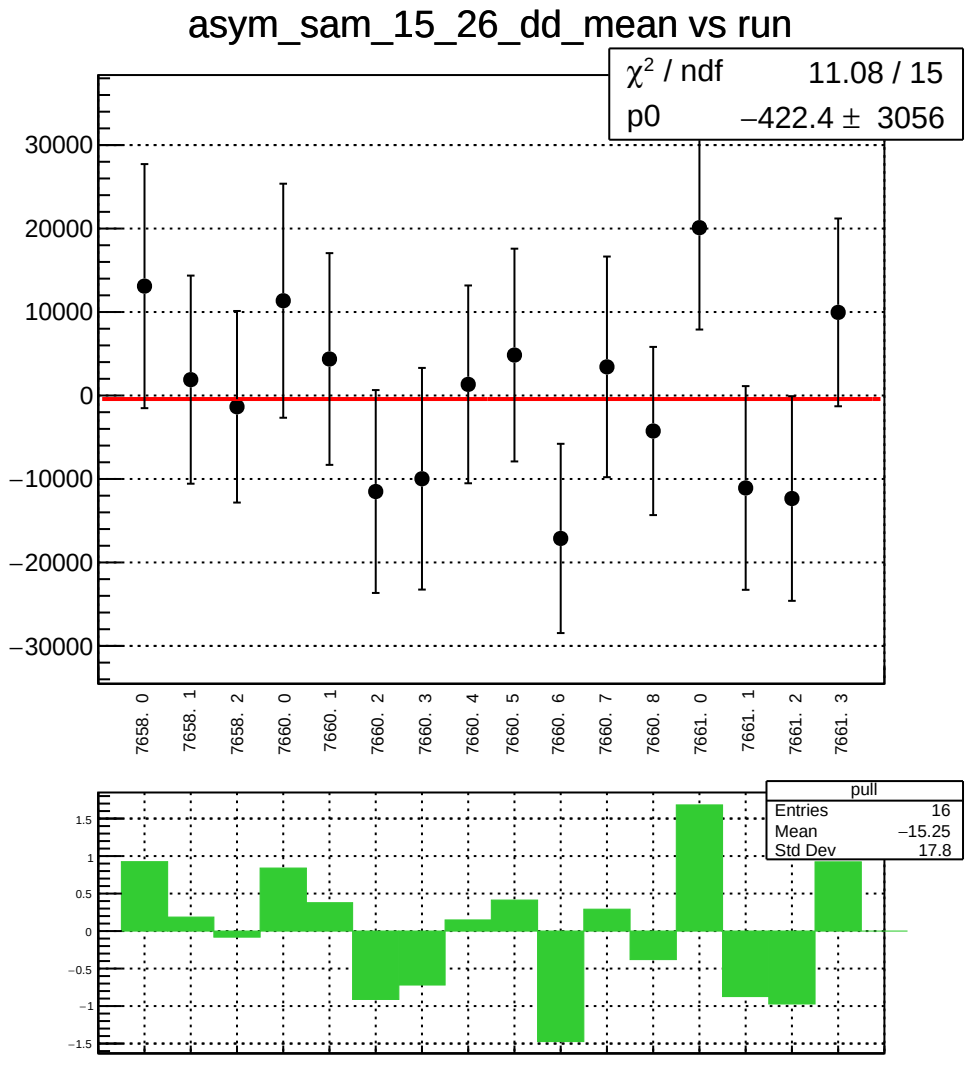

dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 4.608 / 15
p0 155.3 ± 339.8
3000
2000
1000
0
−1000
−2000
−3000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −31.2
Std Dev 27.75
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 16
Mean 0.0005356
Std Dev 0.5366
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

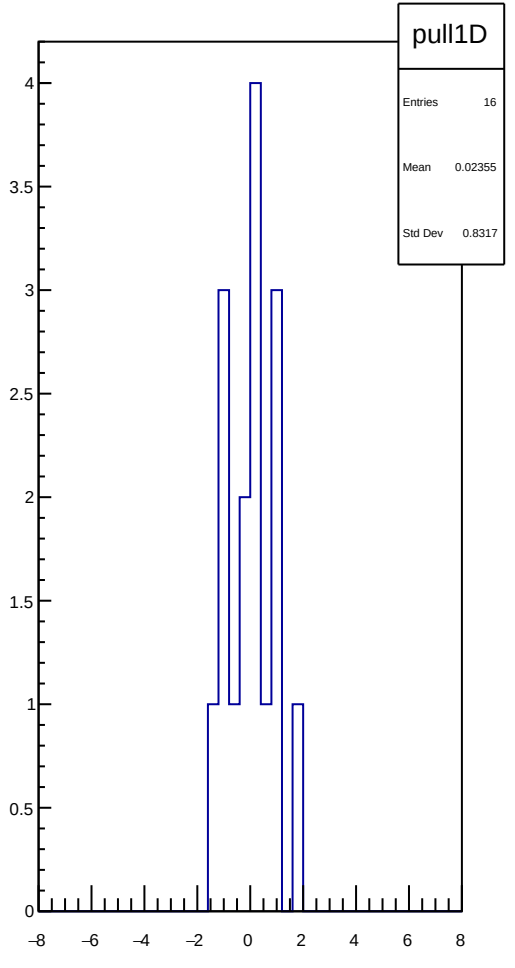

dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 1.001e+04 / 15
p0 129.9 ± 0.2403
280
260
240
220
200
180
160
140
120
100
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

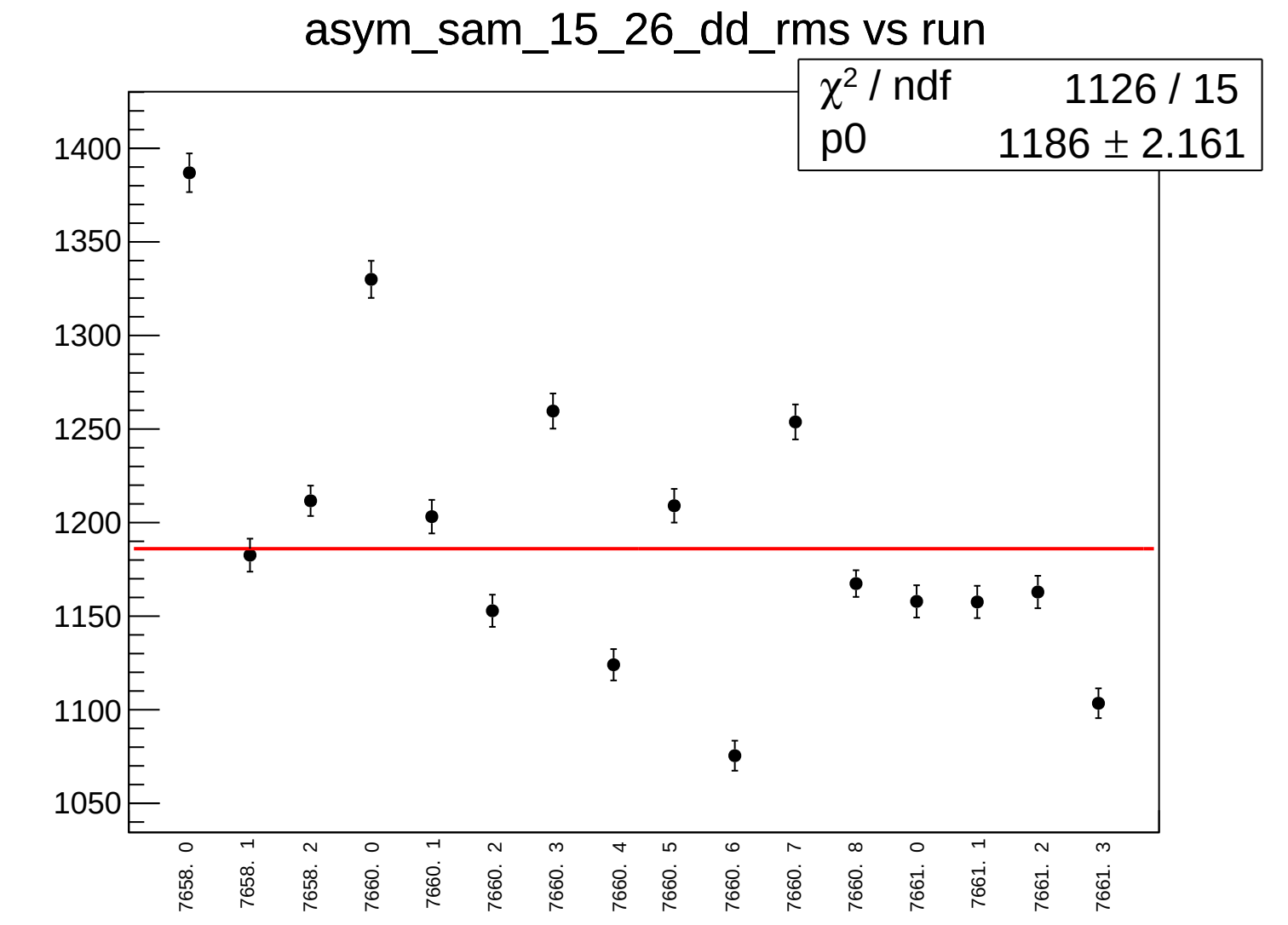

asym_sam_15_26_dd_correction_mean vs run
χ² / ndf 12.07 / 15
p0 318.6 ± 2896
30000
20000
10000
0
−10000
−20000
−30000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −36.29
Std Dev 39.92
1.5
1
0.5
0
−0.5
−1
−1.5

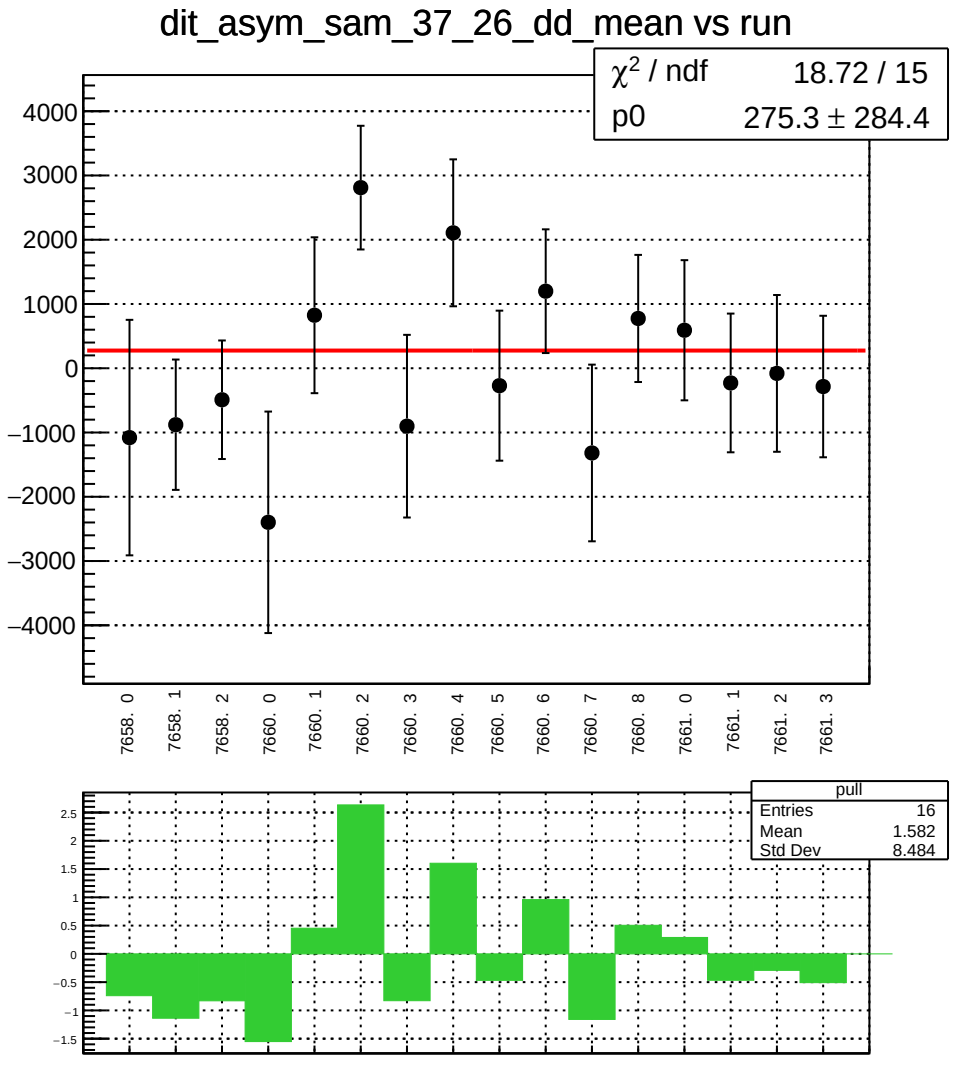

pull1D
Entries 16
Mean −0.01464
Std Dev 0.8684
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

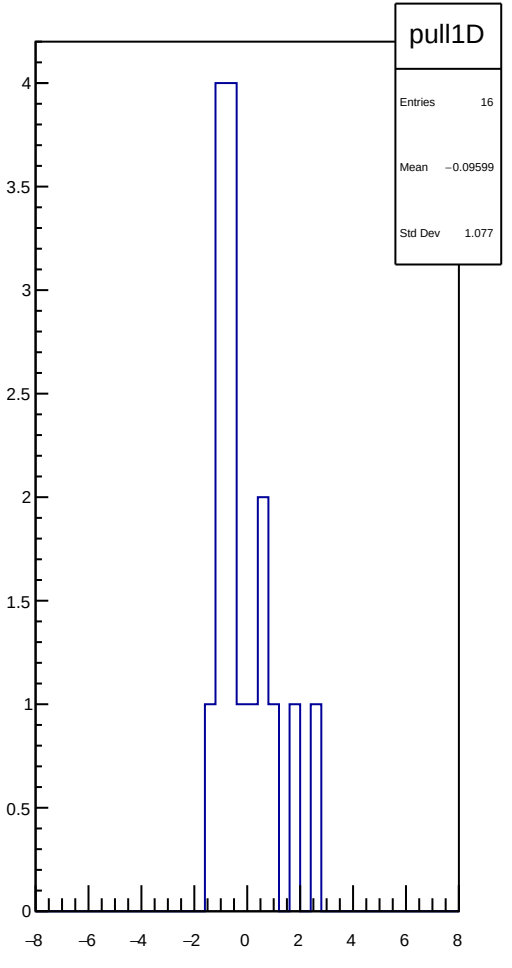

asym_sam_15_26_dd_correction_rms vs run
χ² / ndf 484.4 / 15
p0 1125 ± 2.048
1240
1220
1200
1180
1160
1140
1120
1100
1080
1060
1040
1020
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

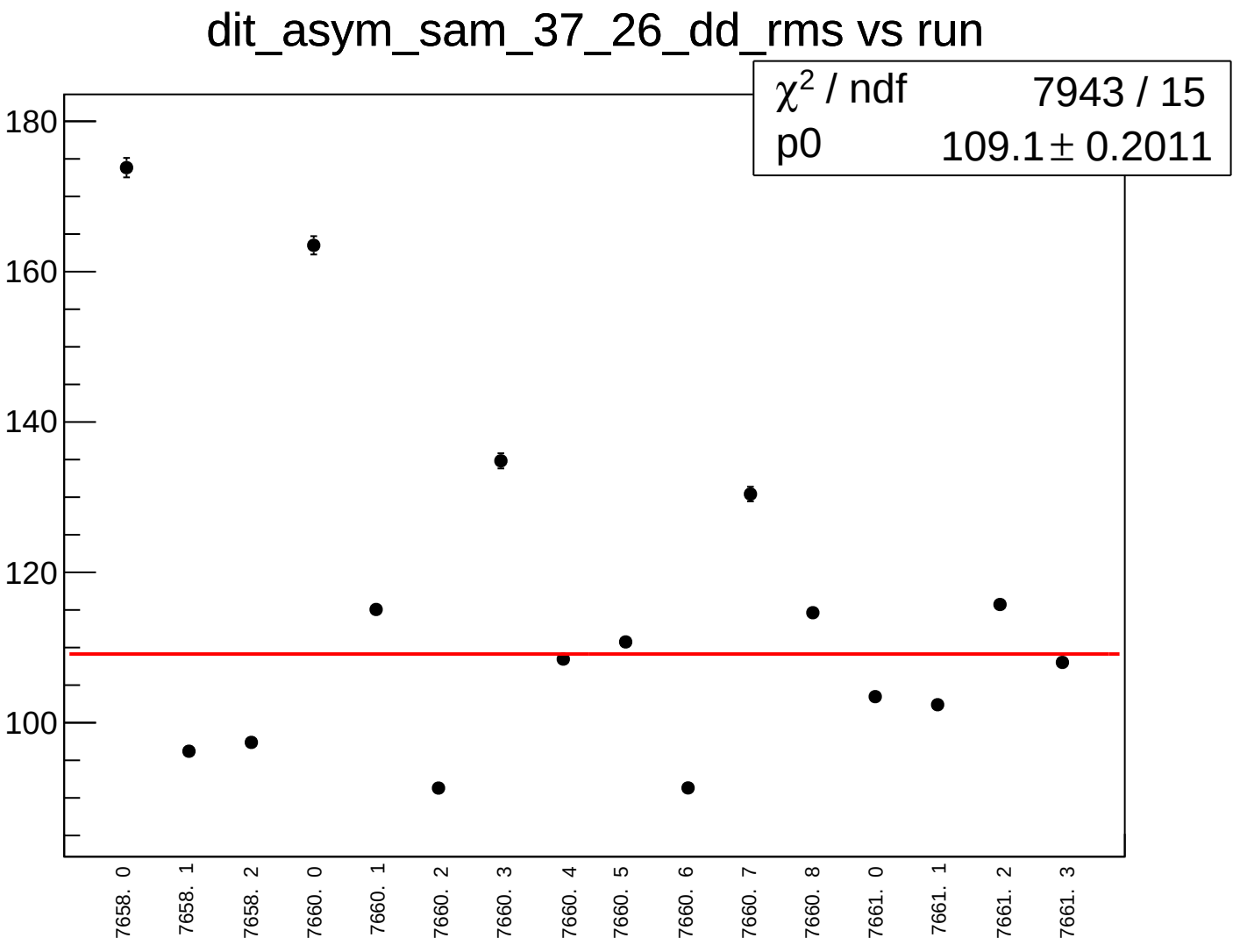

asym_sam_15_26_dd_mean vs run
χ² / ndf 11.08 / 15
p0 −422.4 ± 3056
30000
20000
10000
0
−10000
−20000
−30000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −15.25
Std Dev 17.8
1.5
1
0.5
0
−0.5
−1
−1.5

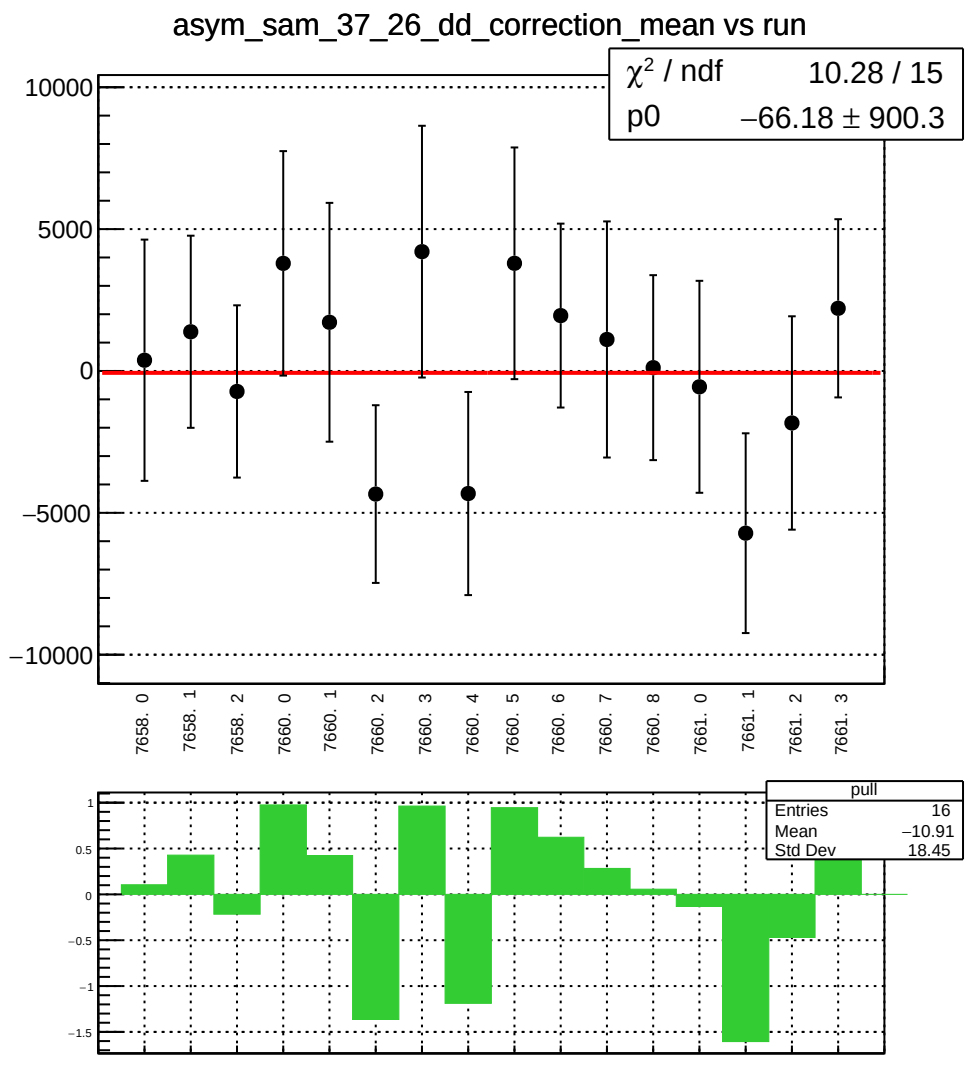

pull1D
Entries 16
Mean 0.02355
Std Dev 0.8317
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

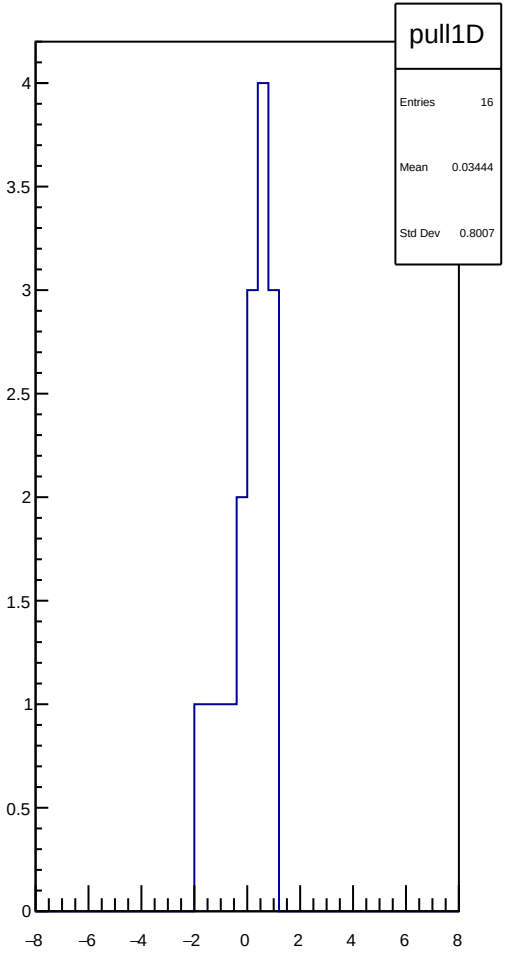

asym_sam_15_26_dd_rms vs run
χ² / ndf 1126 / 15
p0 1186 ± 2.161
1400
1350
1300
1250
1200
1150
1100
1050
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

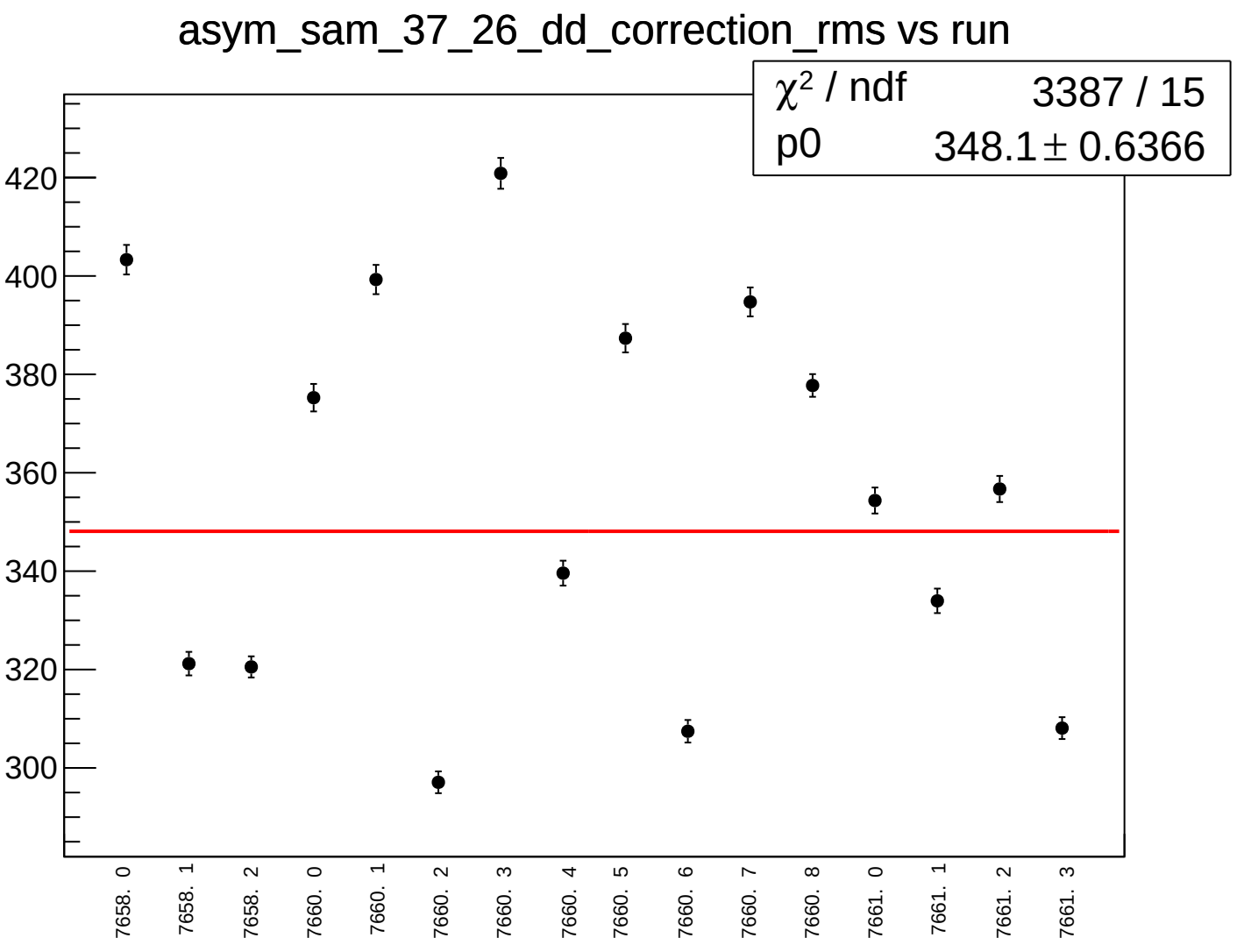

dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 18.72 / 15
p0 275.3 ± 284.4
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 1.582
Std Dev 8.484
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

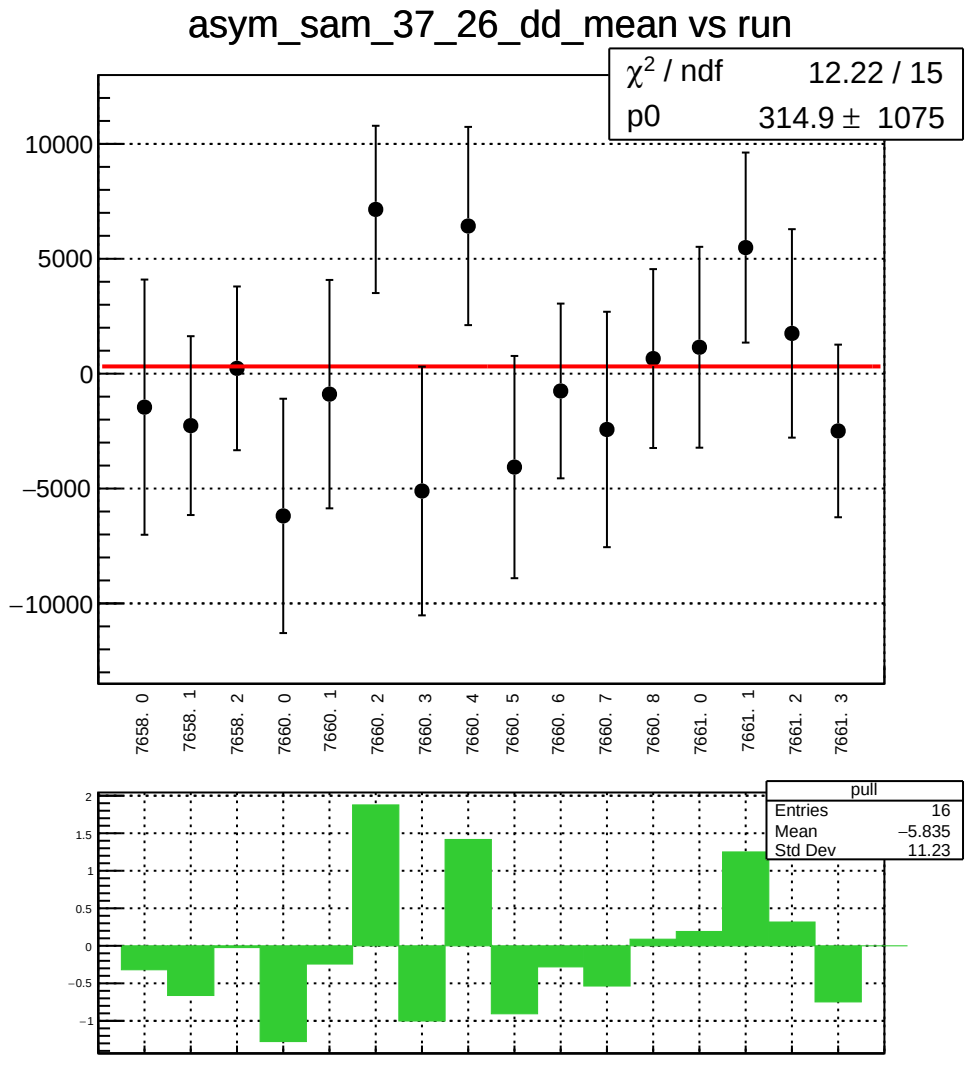

pull1D
Entries 16
Mean −0.09599
Std Dev 1.077
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

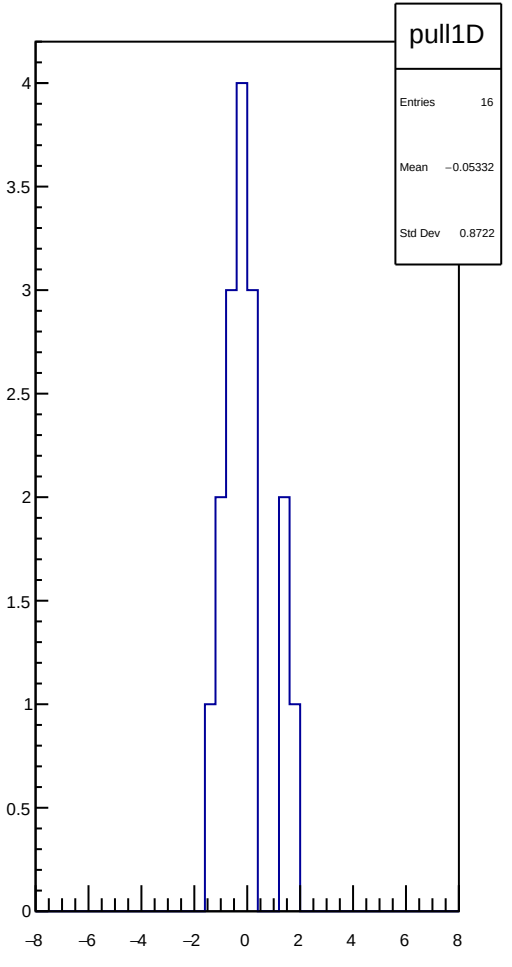

dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 7943 / 15
p0 109.1 ± 0.2011
180
160
140
120
100
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

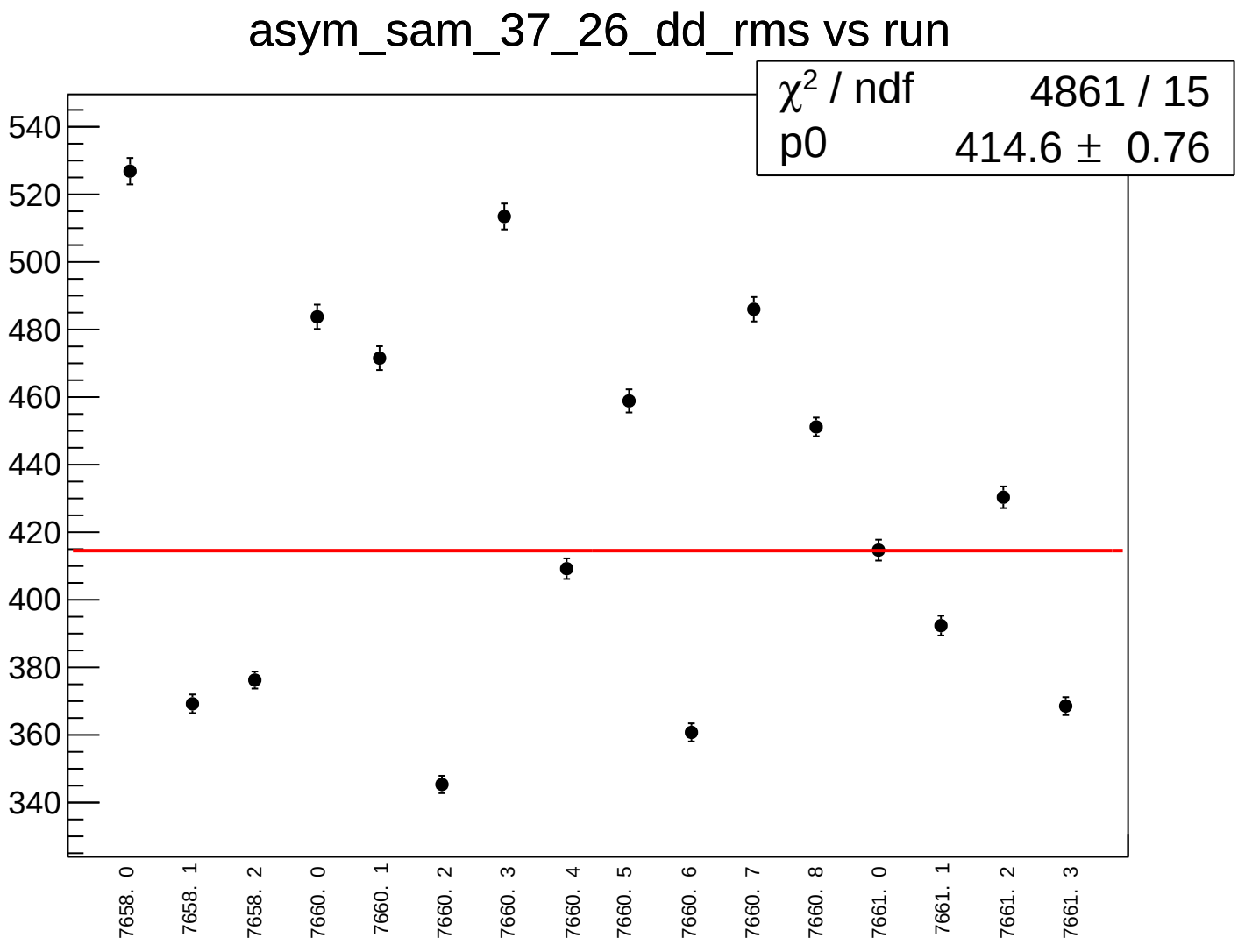

asym_sam_37_26_dd_correction_mean vs run
χ² / ndf 10.28 / 15
p0 −66.18 ± 900.3
10000
5000
0
−5000
−10000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −10.91
Std Dev 18.45
1
0.5
0
−0.5
−1
−1.5

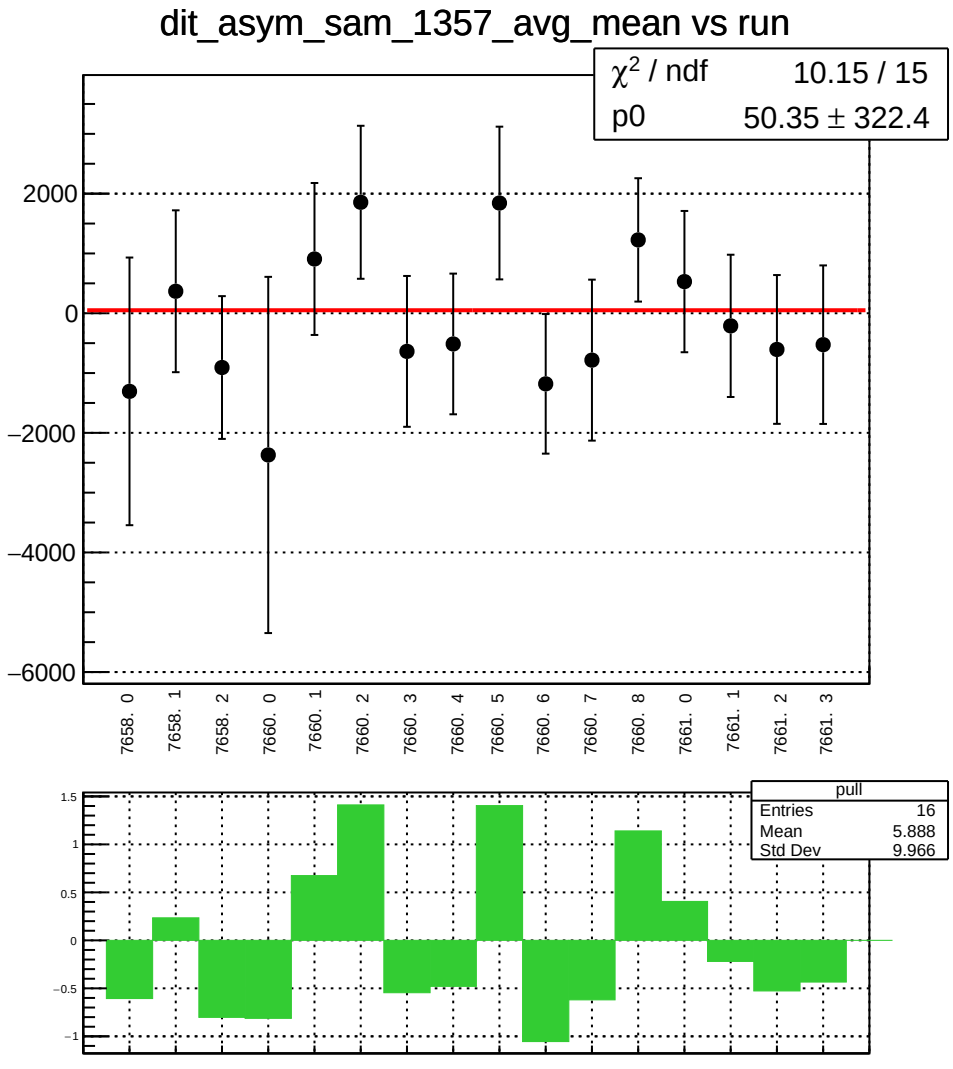

pull1D
Entries 16
Mean 0.03444
Std Dev 0.8007
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

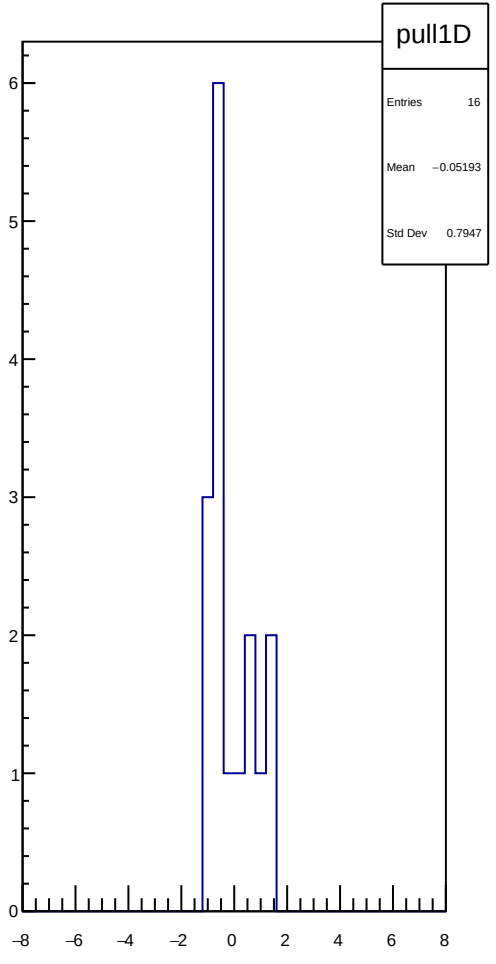

asym_sam_37_26_dd_correction_rms vs run
χ² / ndf 3387 / 15
p0 348.1 ± 0.6366
420
400
380
360
340
320
300
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

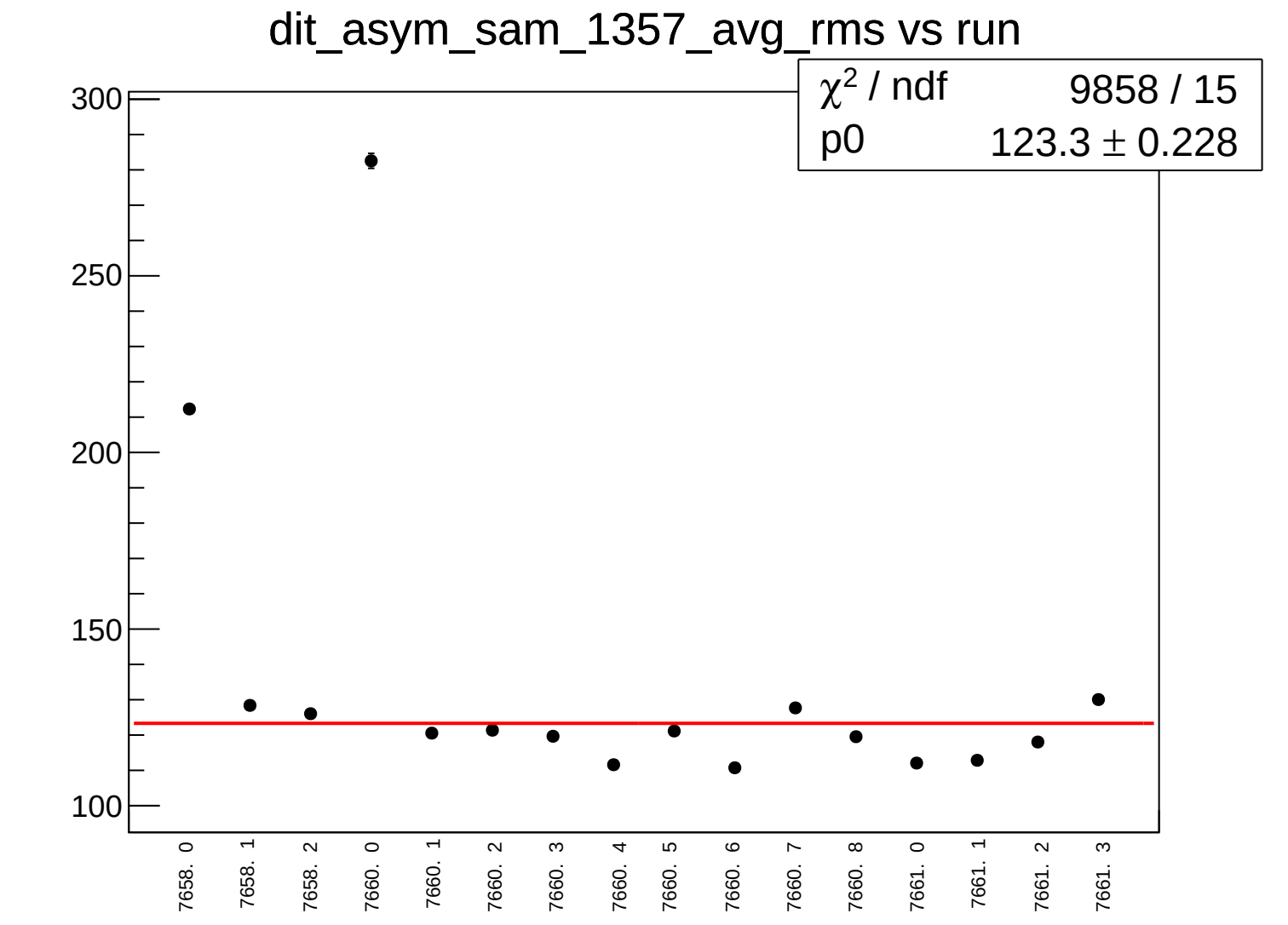

asym_sam_37_26_dd_mean vs run
χ² / ndf 12.22 / 15
p0 314.9 ± 1075
10000
5000
0
−5000
−10000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −5.835
Std Dev 11.23
2
1.5
1
0.5
0
−0.5
−1

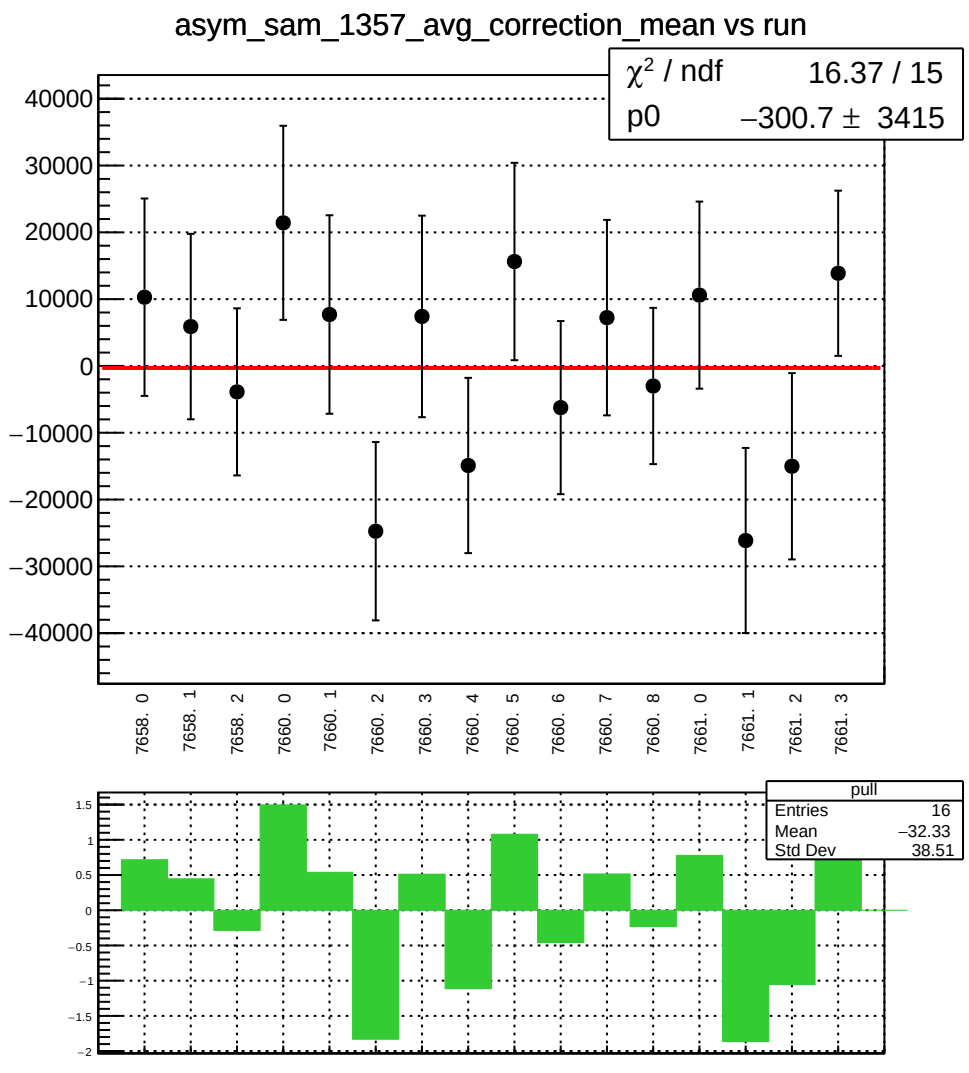

pull1D
Entries 16
Mean −0.05332
Std Dev 0.8722
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

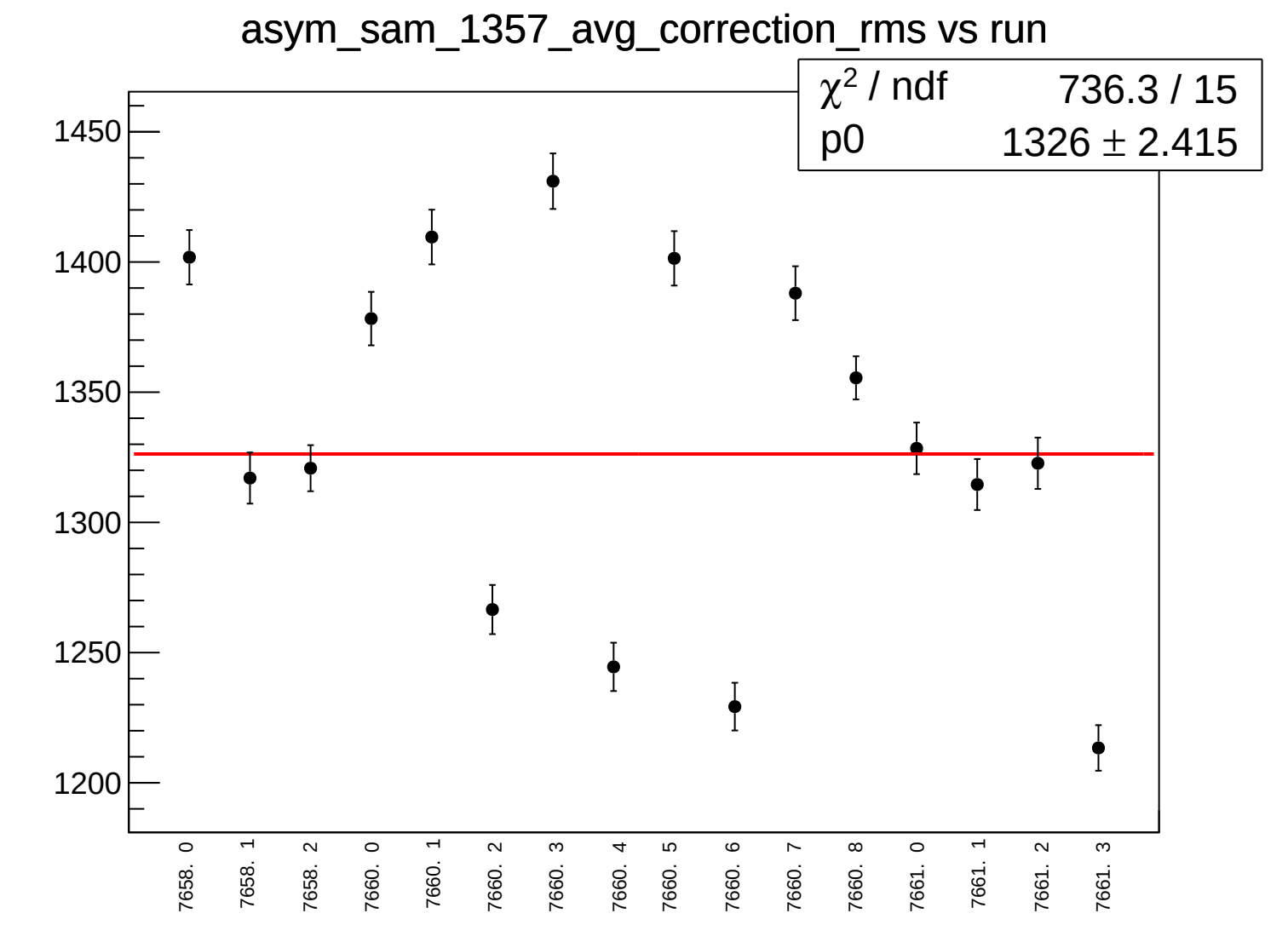

asym_sam_37_26_dd_rms vs run
χ² / ndf 4861 / 15
p0 414.6 ± 0.76
540
520
500
480
460
440
420
400
380
360
340
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

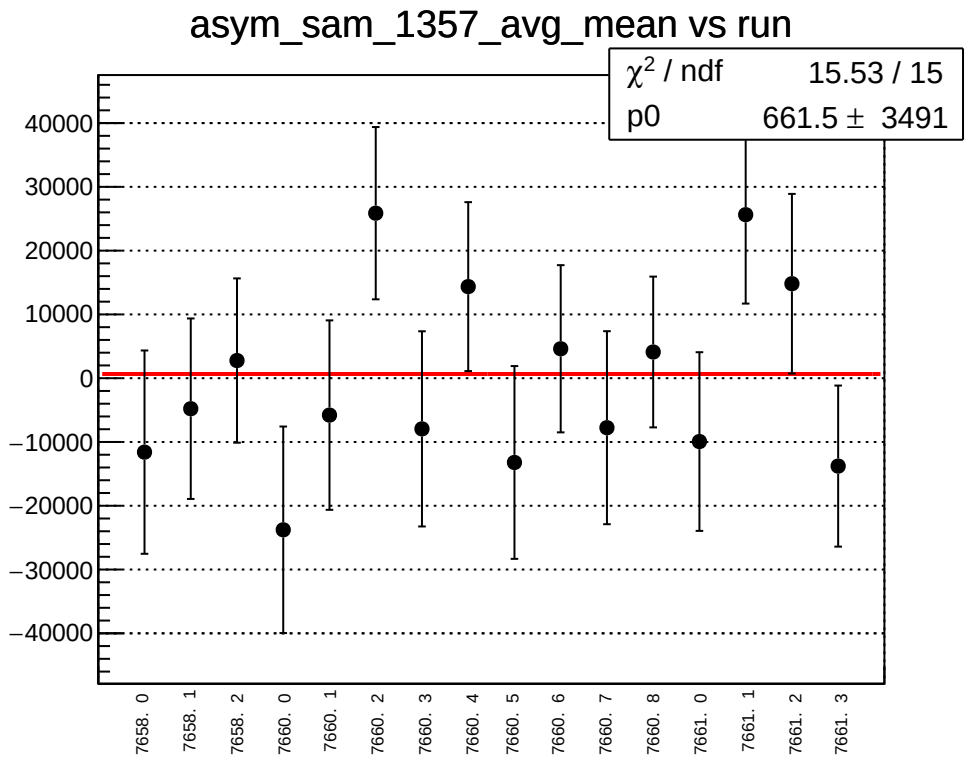

dit_asym_sam_1357_avg_mean vs run
χ² / ndf 10.15 / 15
p0 50.35 ± 322.4
2000
0
−2000
−4000
−6000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 5.888
Std Dev 9.966
1.5
1
0.5
0
−0.5
−1

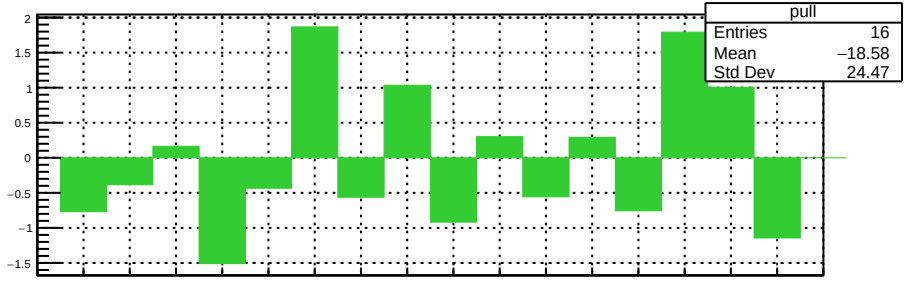

pull1D
Entries 16
Mean −0.05193
Std Dev 0.7947
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

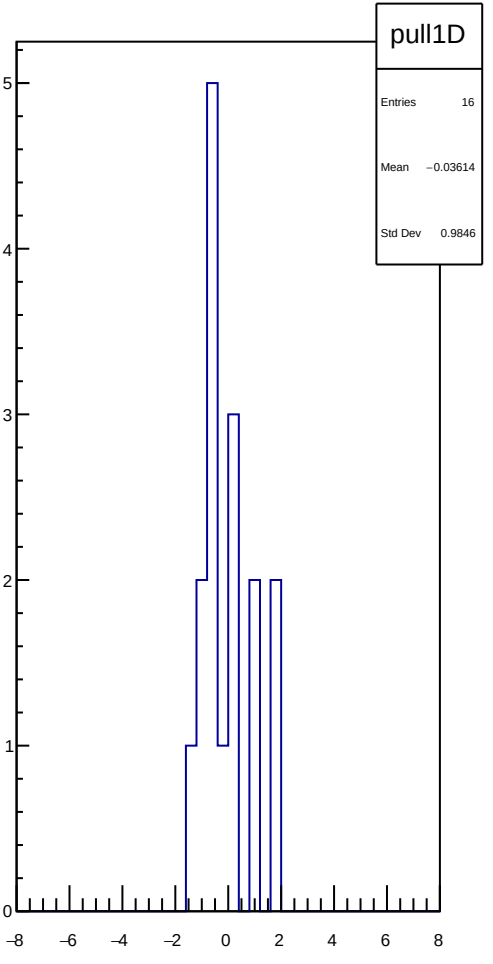

dit_asym_sam_1357_avg_rms vs run
χ² / ndf 9858 / 15
p0 123.3 ± 0.228
300
250
200
150
100
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

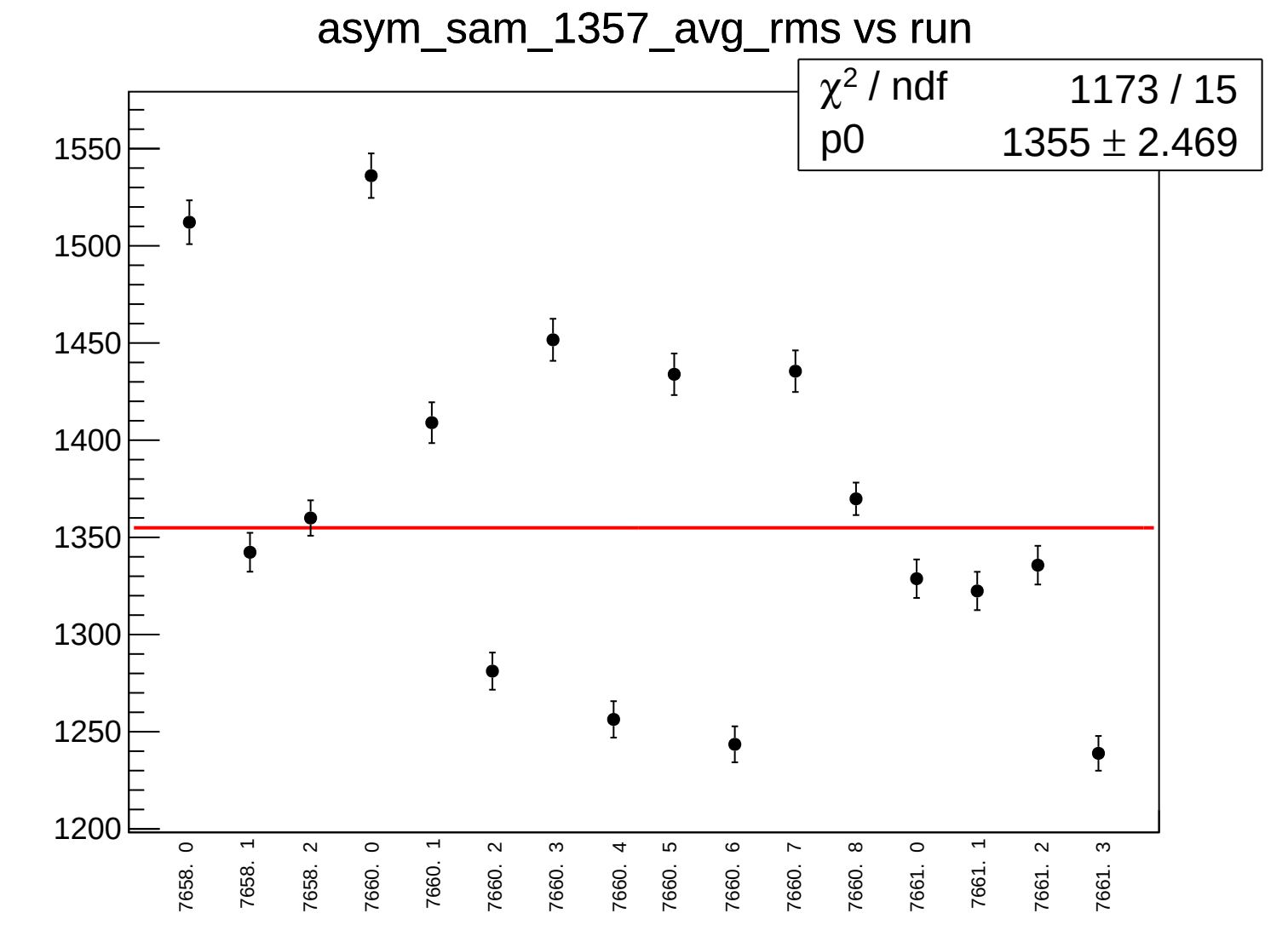

asym_sam_1357_avg_correction_mean vs run
χ² / ndf 16.37 / 15
p0 −300.7 ± 3415
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −32.33
Std Dev 38.51
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 16
Mean 0.02423
Std Dev 1.011
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

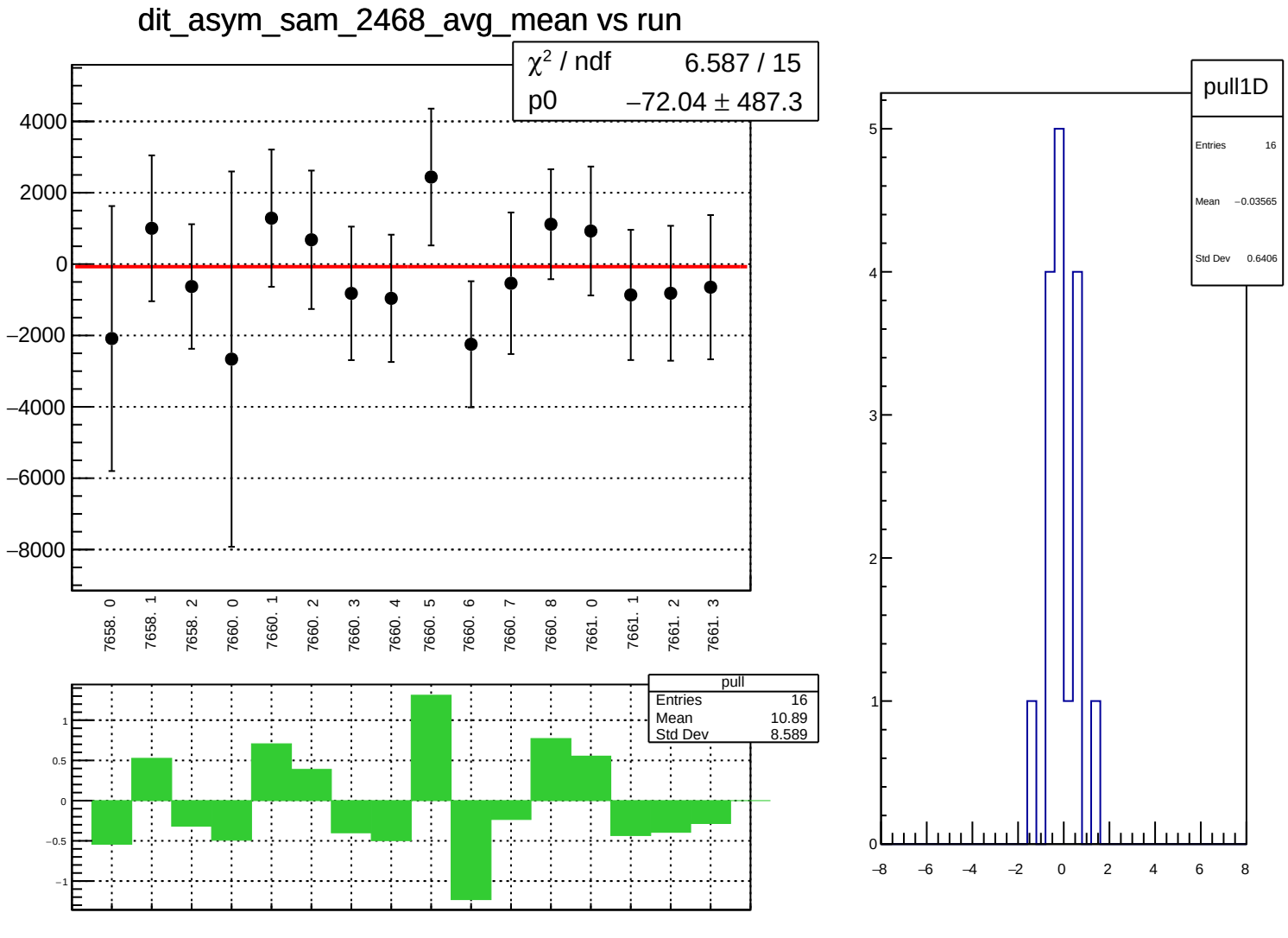

asym_sam_1357_avg_correction_rms vs run
χ² / ndf 736.3 / 15
p0 1326 ± 2.415
1450
1400
1350
1300
1250
1200
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

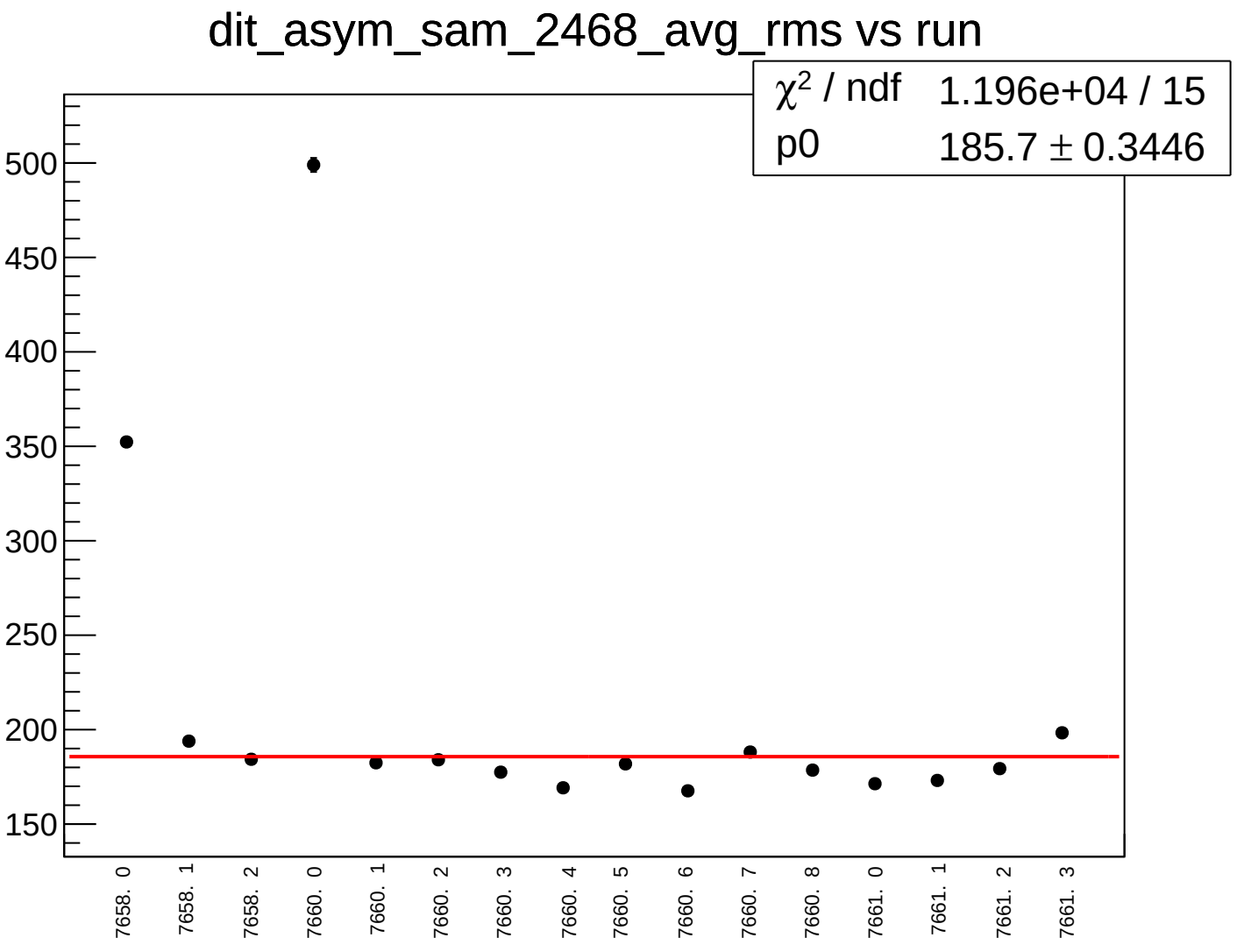

asym_sam_1357_avg_mean vs run
χ² / ndf 15.53 / 15
p0 661.5 ± 3491
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

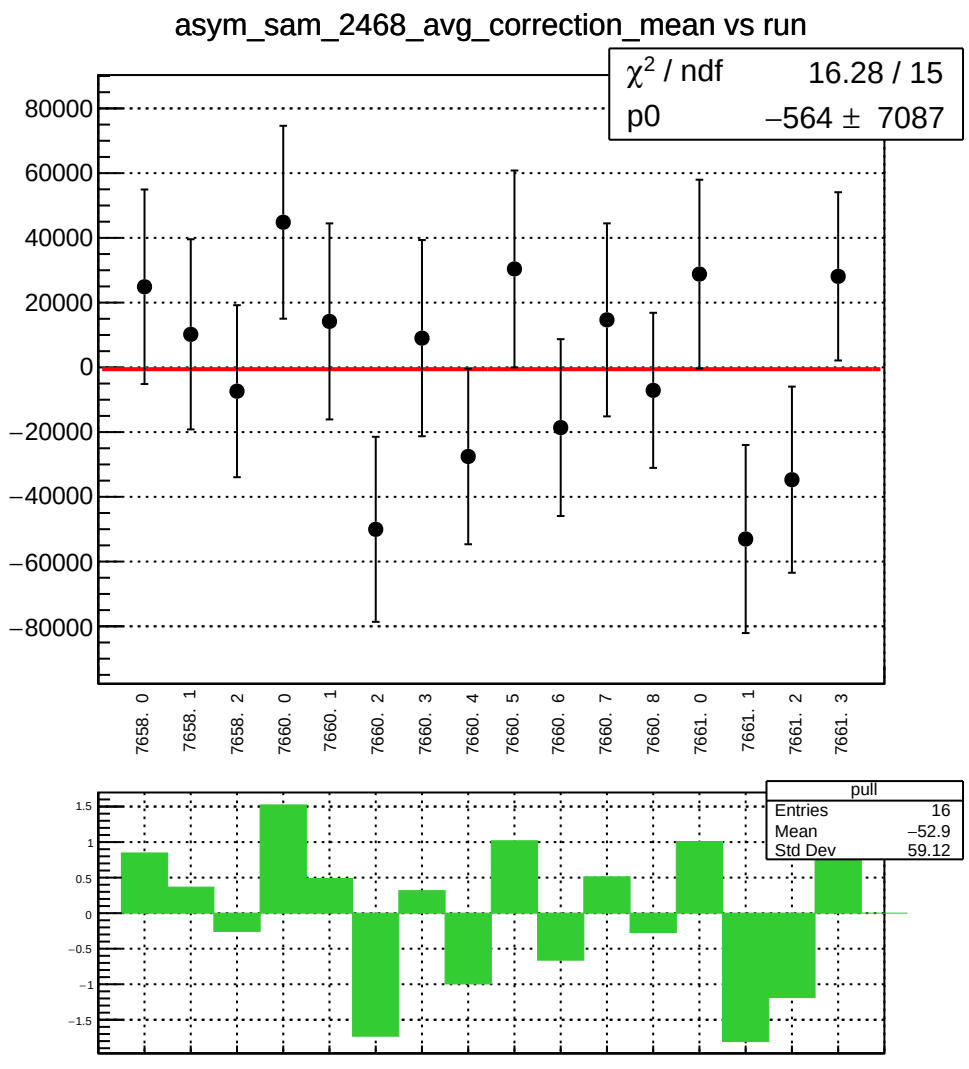

pull
Entries 16
Mean −18.58
Std Dev 24.47
2
1.5
1
0.5
0
−0.5
−1
−1.5

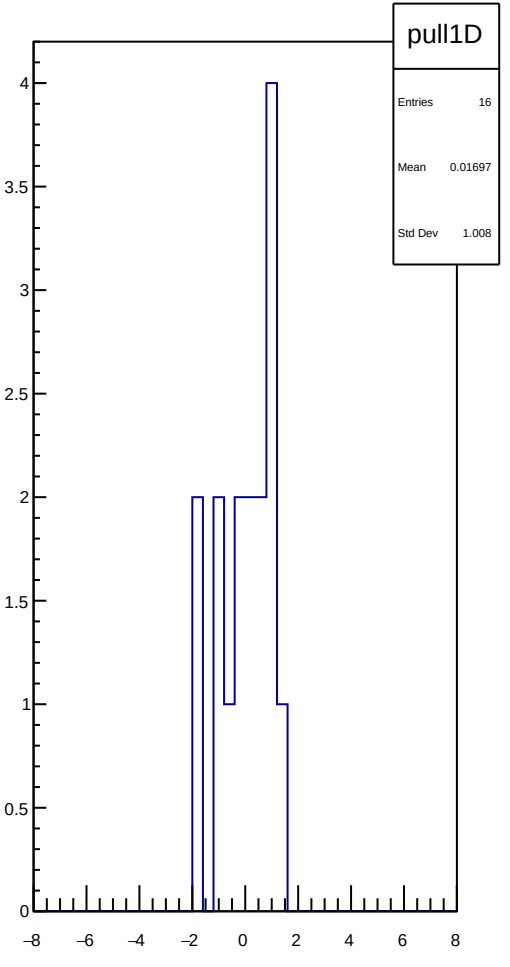

pull1D
Entries 16
Mean −0.03614
Std Dev 0.9846
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

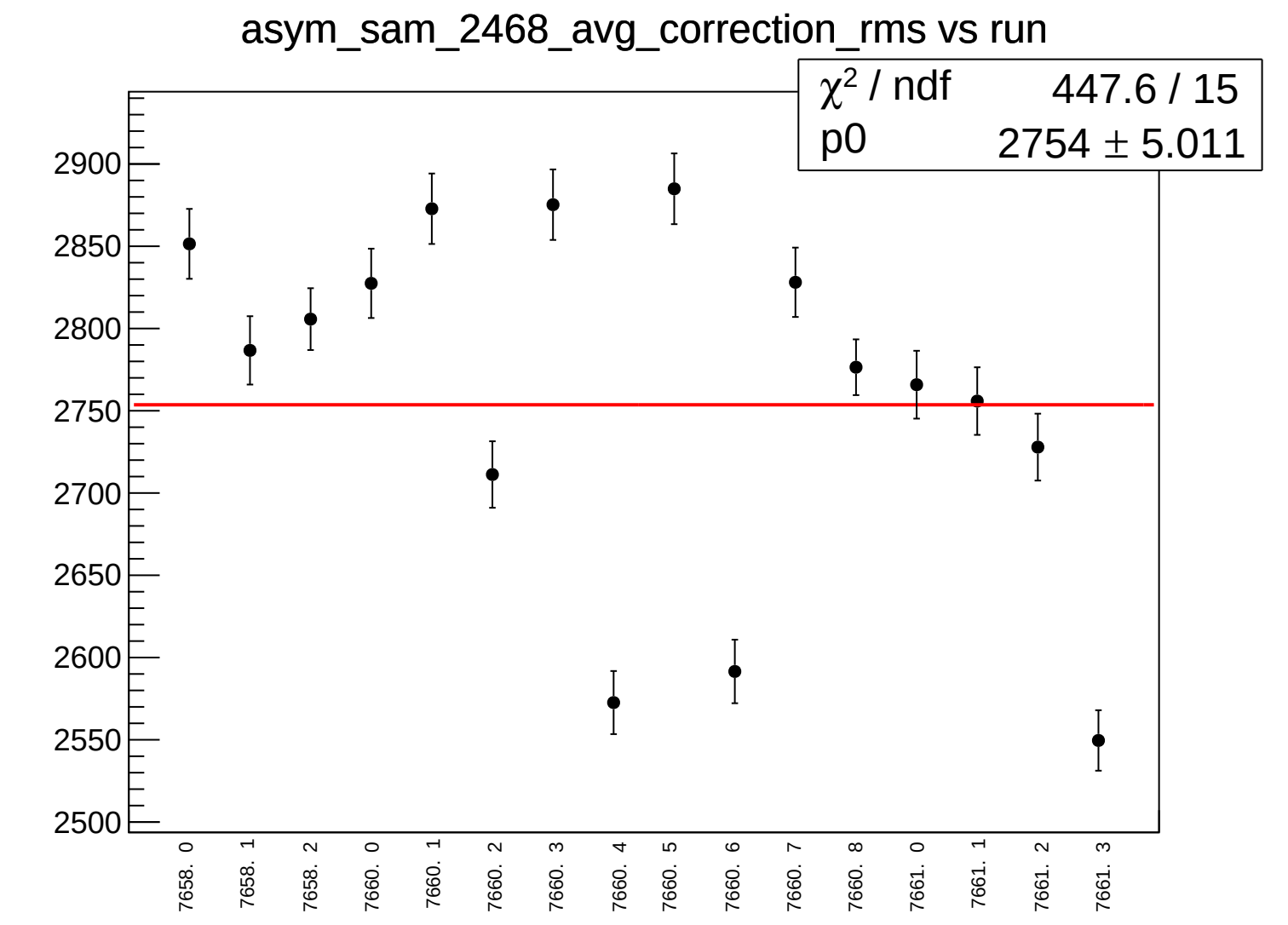

asym_sam_1357_avg_rms vs run
χ² / ndf 1173 / 15
p0 1355 ± 2.469
1550
1500
1450
1400
1350
1300
1250
1200
17658. 0
17658. 1
17658. 2
17660. 0
17660. 1
17660. 2
17660. 3
17660. 4
17660. 5
17660. 6
17660. 7
17660. 8
17661. 0
17661. 1
17661. 2
17661. 3

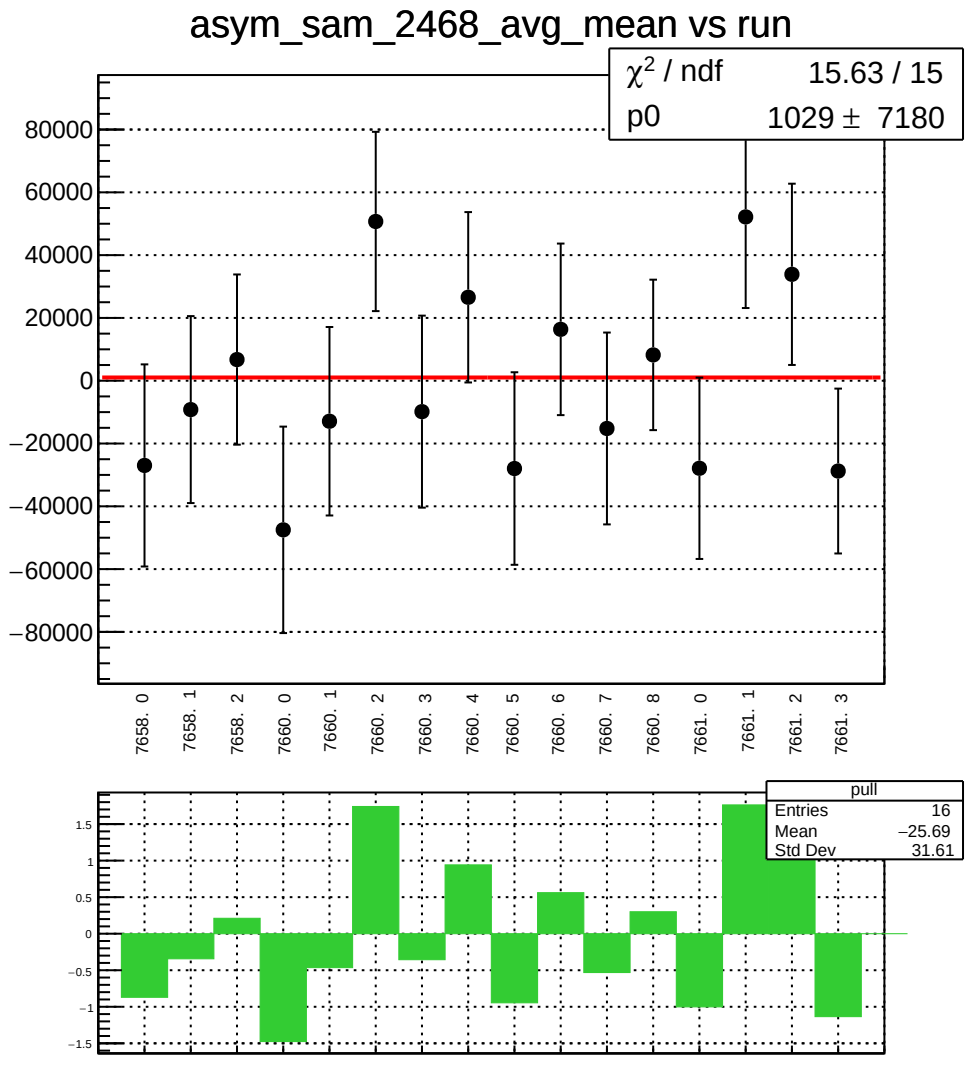

dit_asym_sam_2468_avg_mean vs run
χ² / ndf 6.587 / 15
p0 −72.04 ± 487.3
4000
2000
0
−2000
−4000
−6000
−8000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 10.89
Std Dev 8.589
pull1D
Entries 16
Mean −0.03565
Std Dev 0.6406

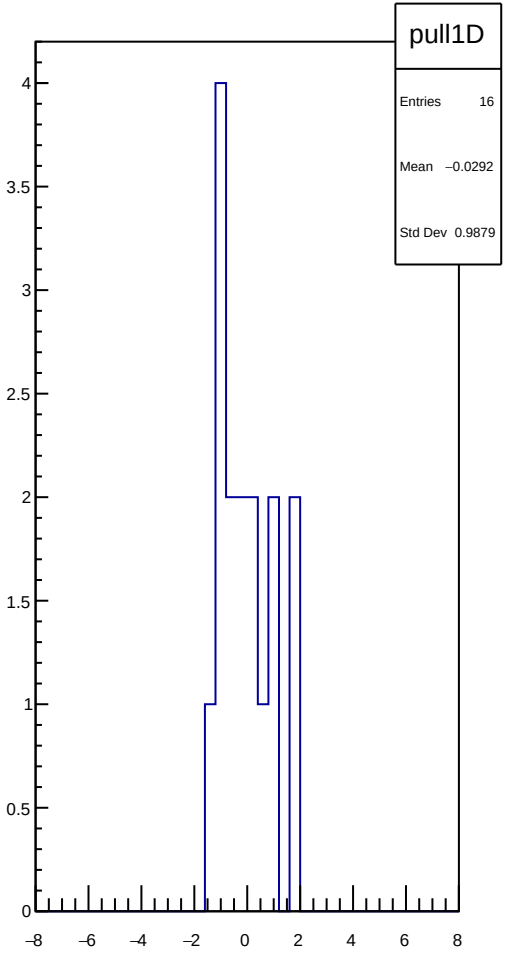

dit_asym_sam_2468_avg_rms vs run
χ² / ndf 1.196e+04 / 15
p0 185.7 ± 0.3446
500
450
400
350
300
250
200
150
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

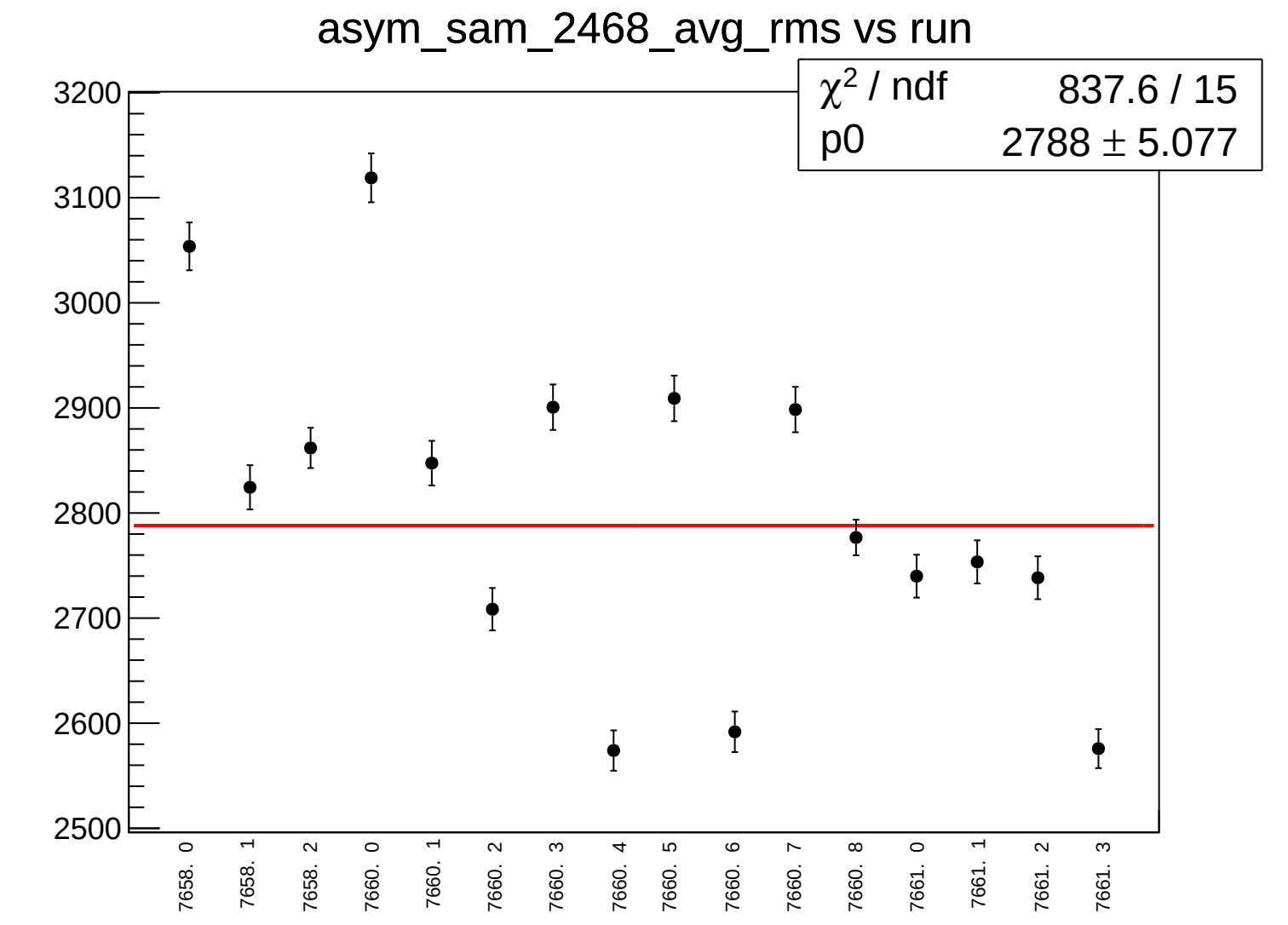

asym_sam_2468_avg_correction_mean vs run
χ² / ndf 16.28 / 15
p0 −564 ± 7087
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −52.9
Std Dev 59.12
1.5
1
0.5
0
−0.5
−1
−1.5

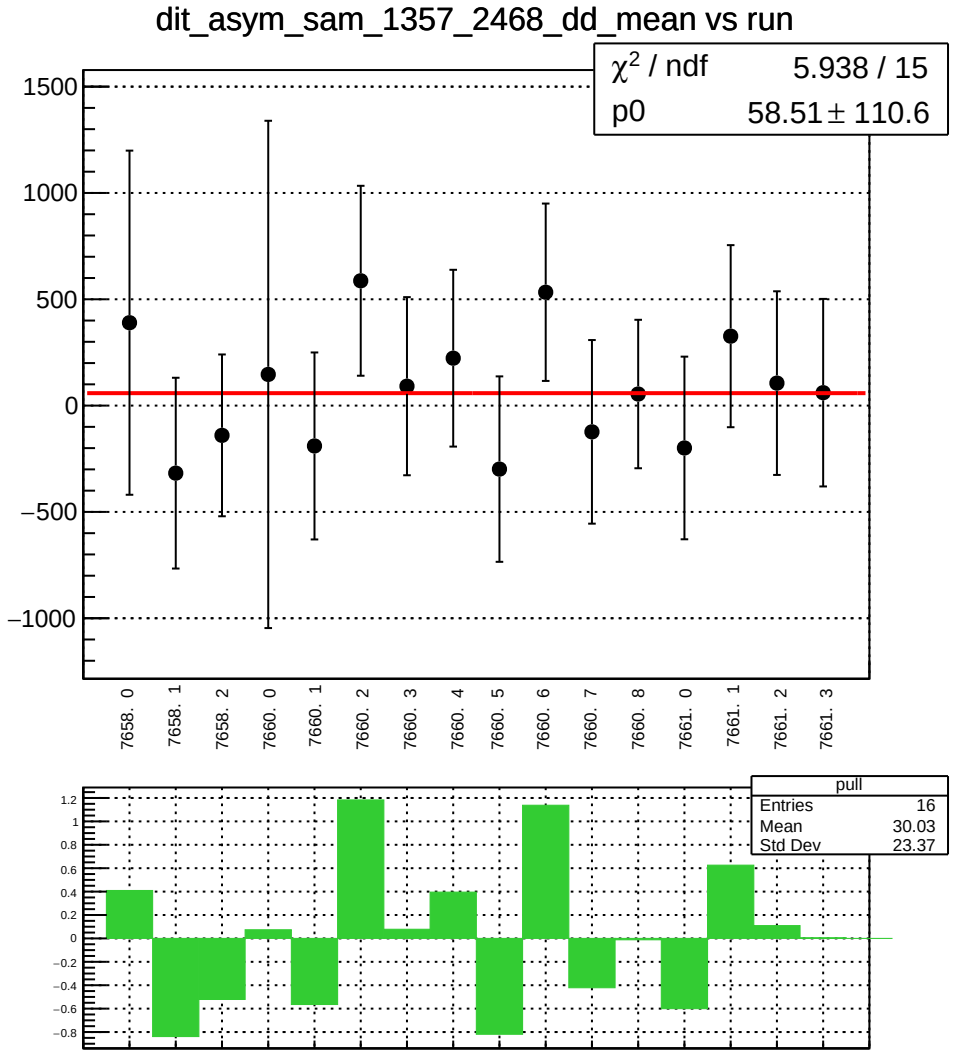

pull1D
Entries 16
Mean 0.01697
Std Dev 1.008
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

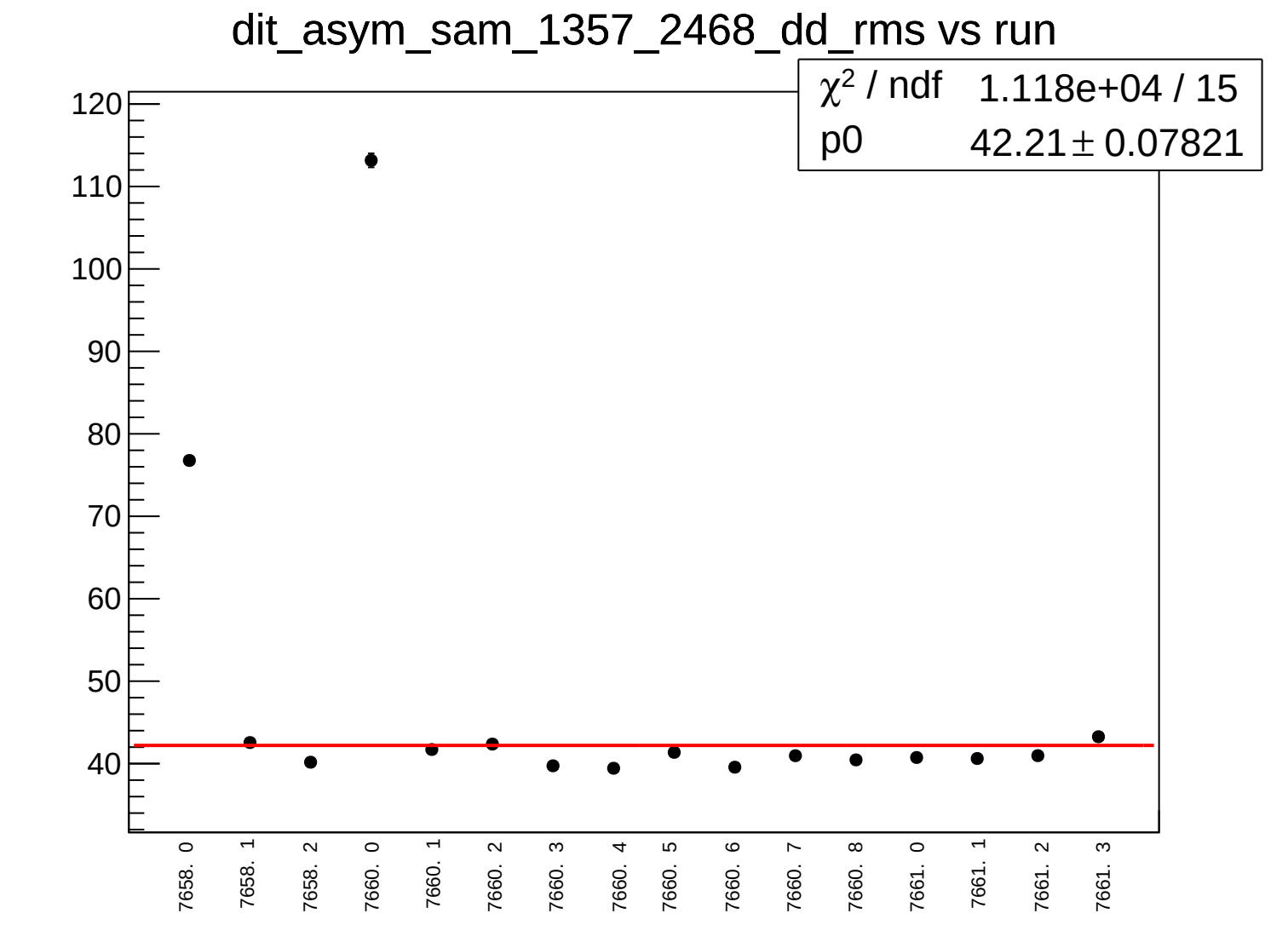

asym_sam_2468_avg_correction_rms vs run
χ² / ndf 447.6 / 15
p0 2754 ± 5.011
2900
2850
2800
2750
2700
2650
2600
2550
2500
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

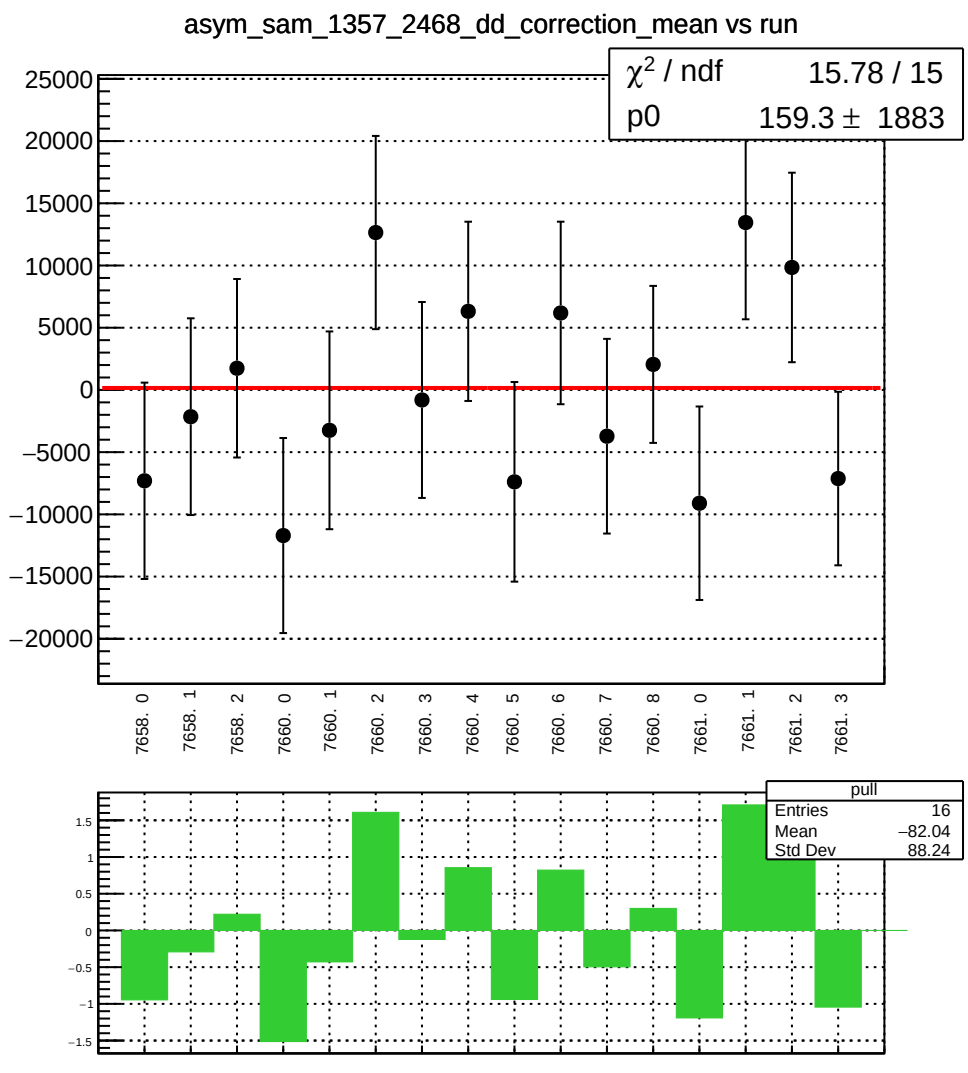

asym_sam_2468_avg_mean vs run
χ² / ndf 15.63 / 15
p0 1029 ± 7180
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −25.69
Std Dev 31.61
1.5
1
0.5
0
−0.5
−1
−1.5

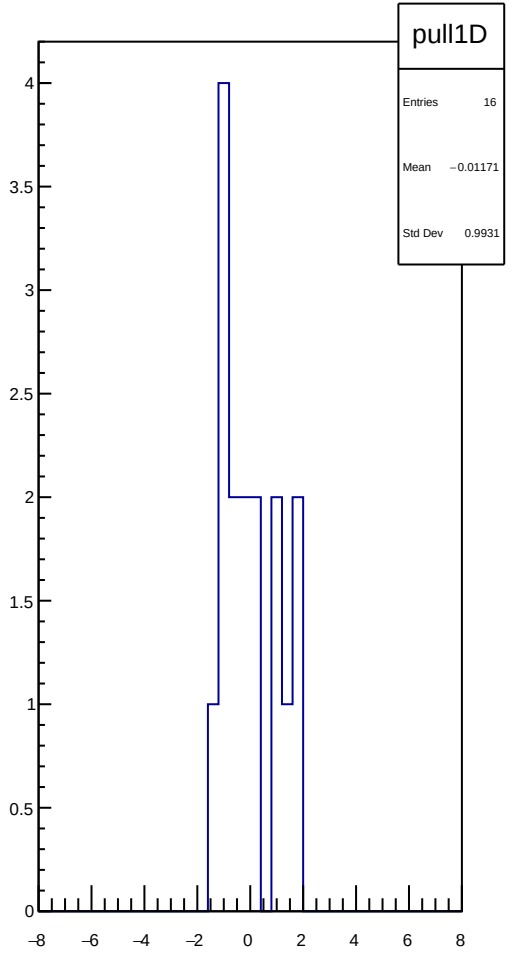

pull1D
Entries 16
Mean −0.0292
Std Dev 0.9879
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

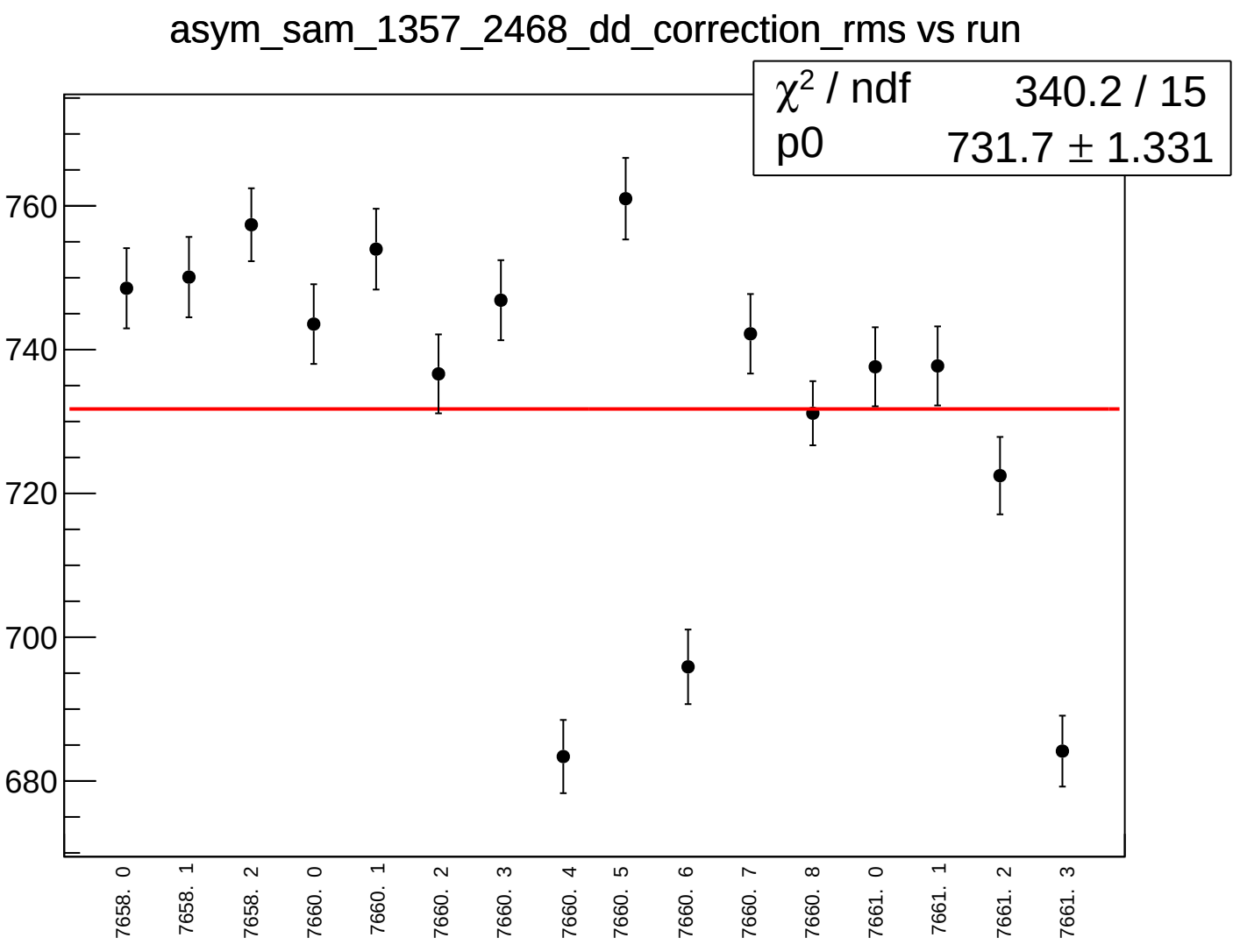

asym_sam_2468_avg_rms vs run
χ² / ndf 837.6 / 15
p0 2788 ± 5.077
3200
3100
3000
2900
2800
2700
2600
2500
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

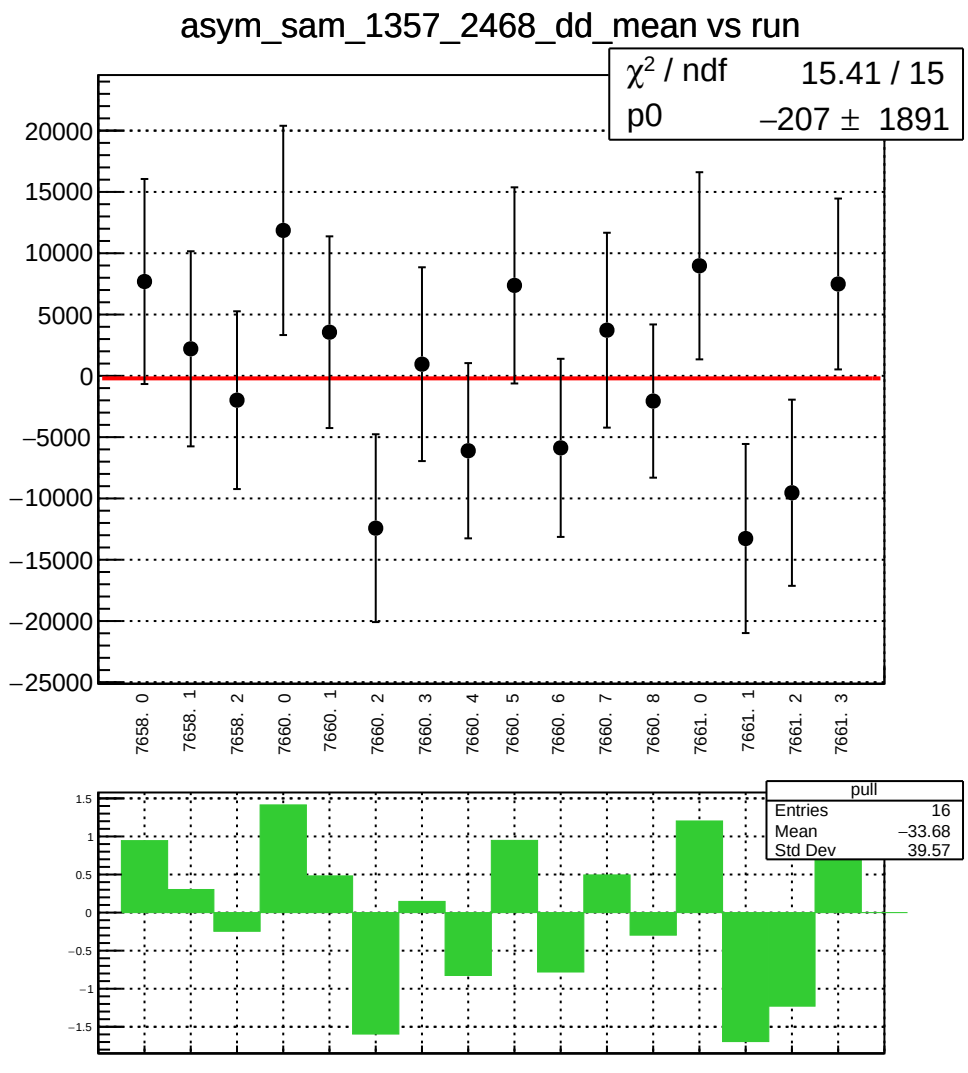

dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 5.938 / 15
p0 58.51 ± 110.6
1500
1000
500
0
−500
−1000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 30.03
Std Dev 23.37
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 16
Mean 0.01507
Std Dev 0.609
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

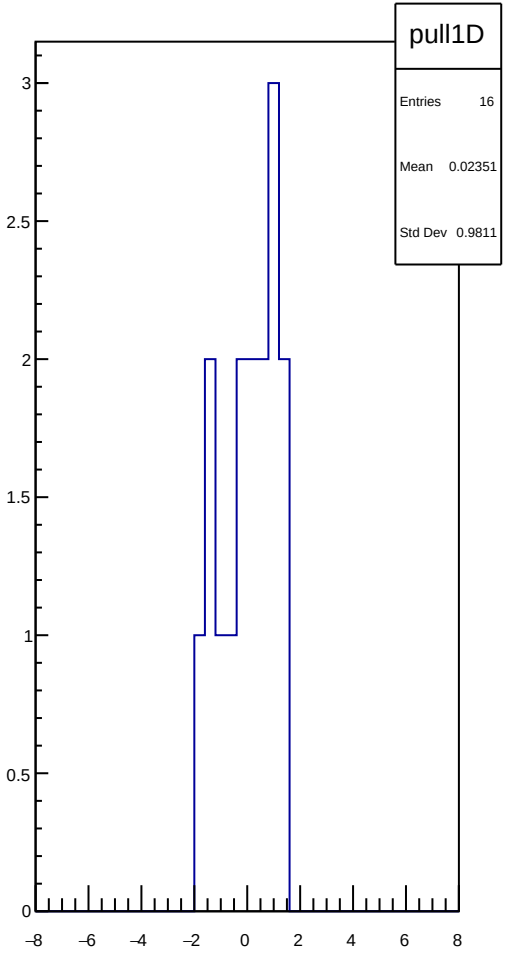

dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.118e+04 / 15
p0 42.21 ± 0.07821
120
110
100
90
80
70
60
50
40
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

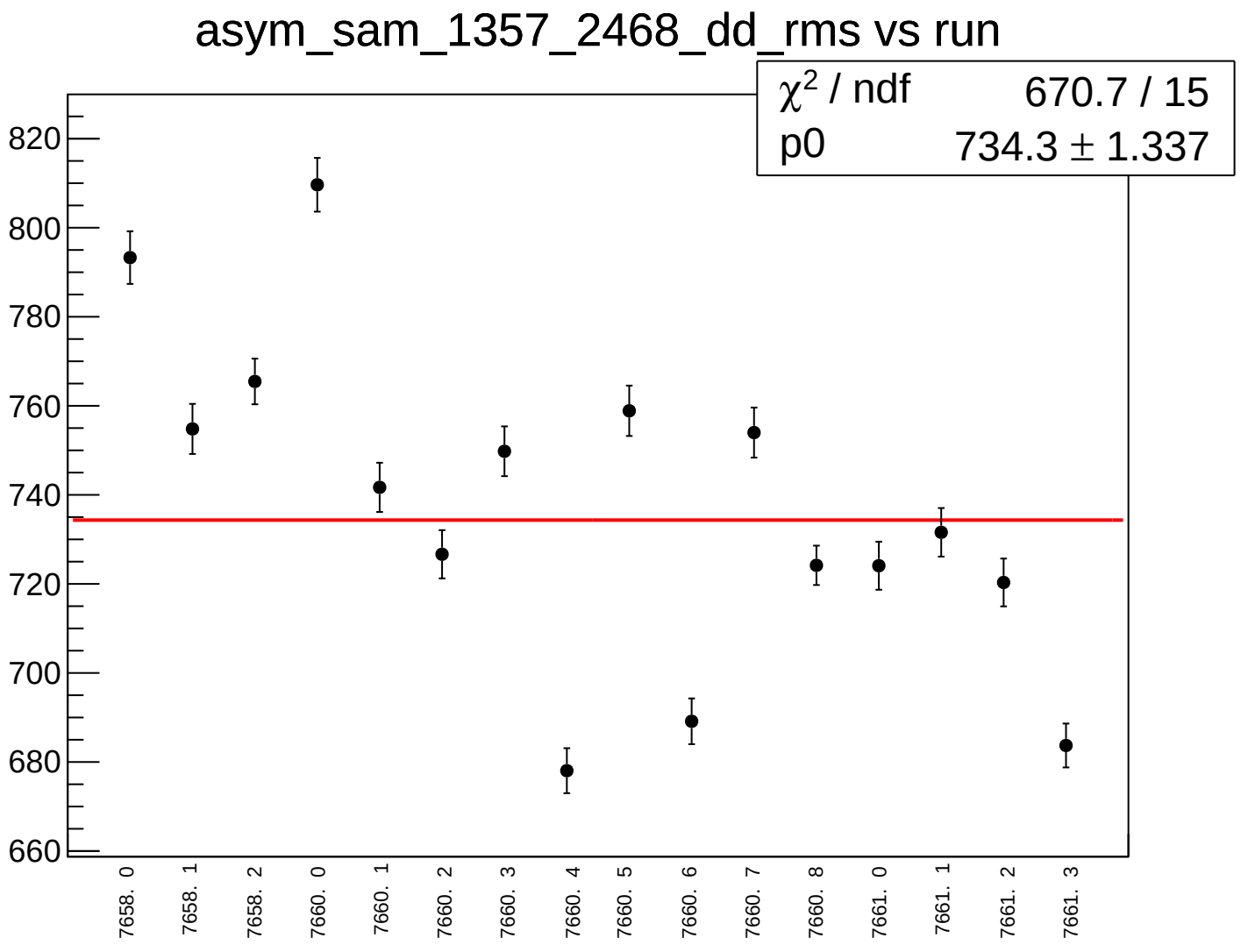

asym_sam_1357_2468_dd_correction_mean vs run
χ² / ndf 15.78 / 15
p0 159.3 ± 1883
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −82.04
Std Dev 88.24
1.5
1
0.5
0
−0.5
−1
−1.5

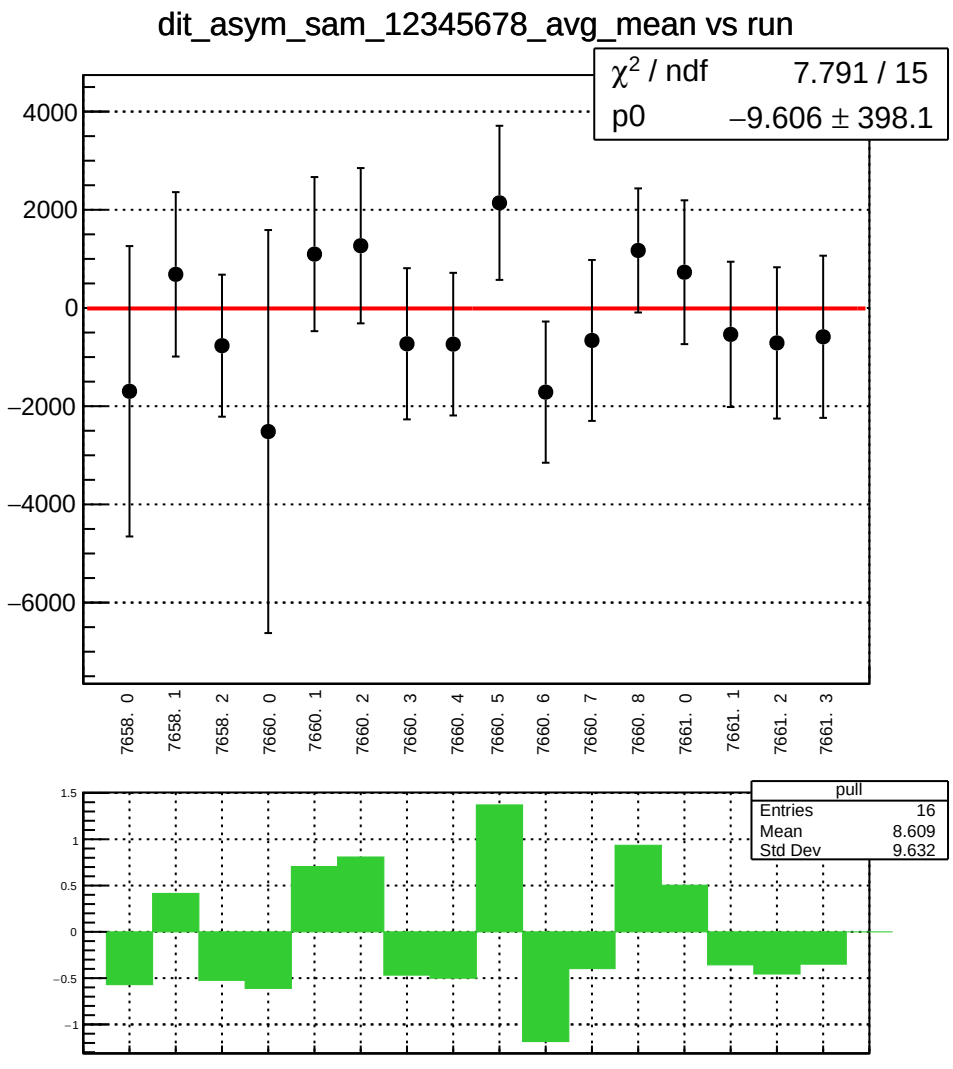

pull1D
Entries 16
Mean −0.01171
Std Dev 0.9931
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

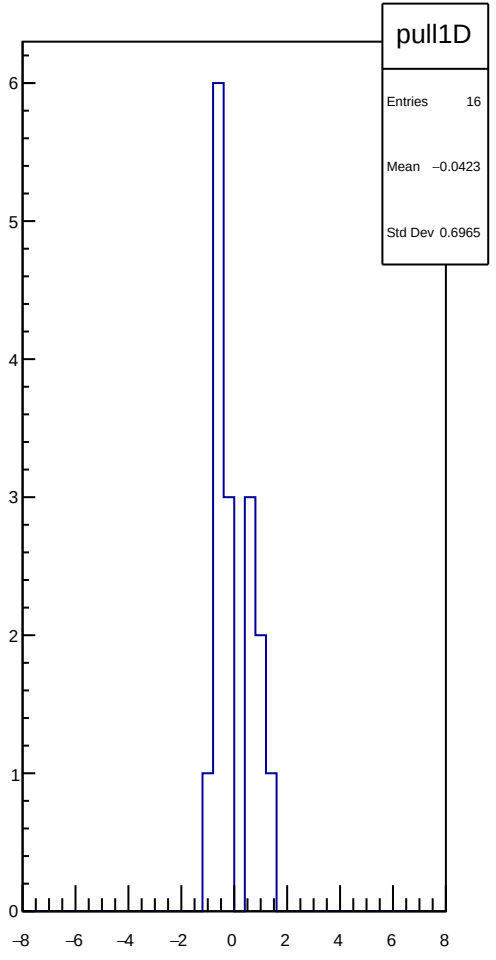

asym_sam_1357_2468_dd_correction_rms vs run
χ² / ndf 340.2 / 15
p0 731.7 ± 1.331
760
740
720
700
680
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

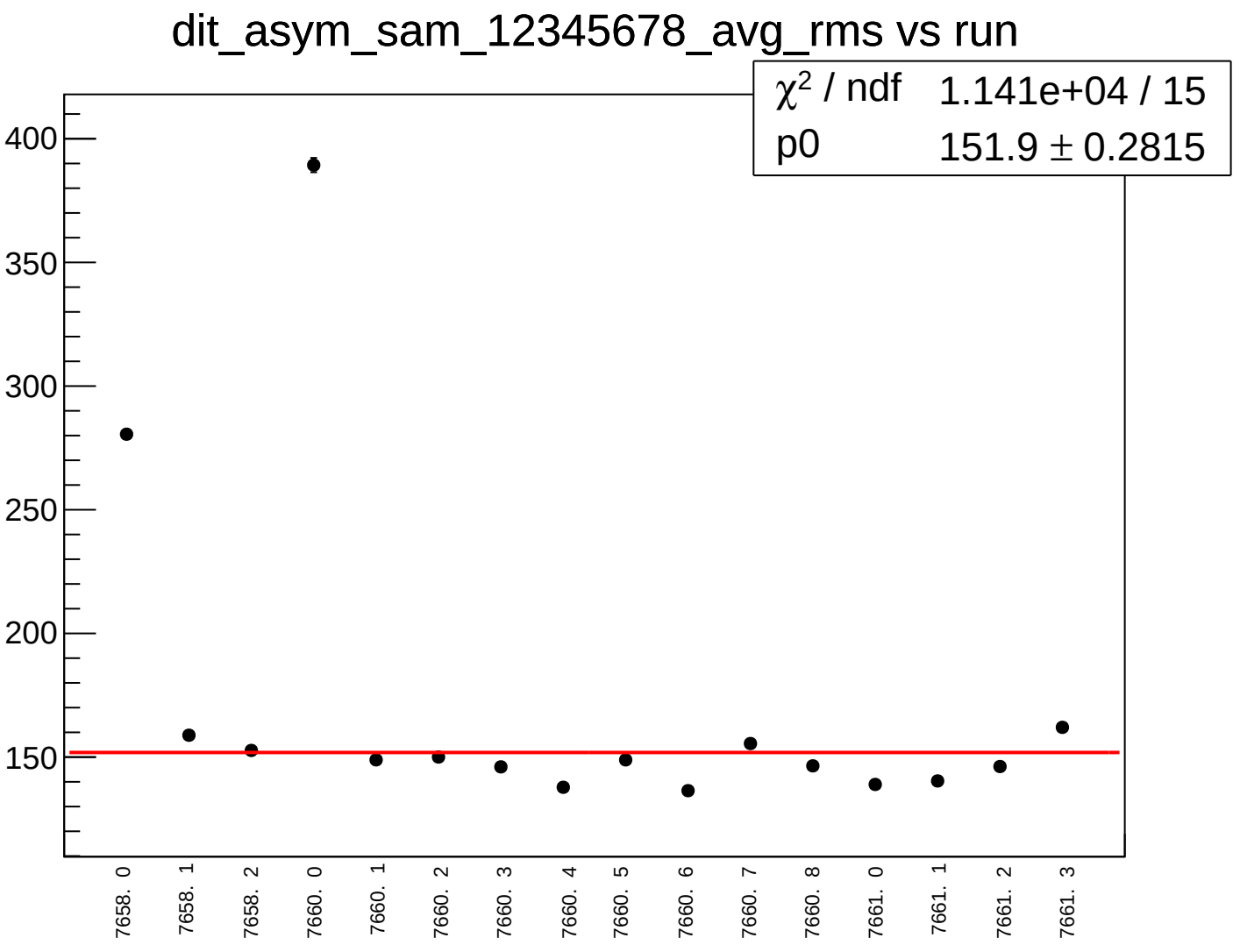

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 15.41 / 15
p0 −207 ± 1891
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −33.68
Std Dev 39.57
1.5
1
0.5
0
−0.5
−1
−1.5

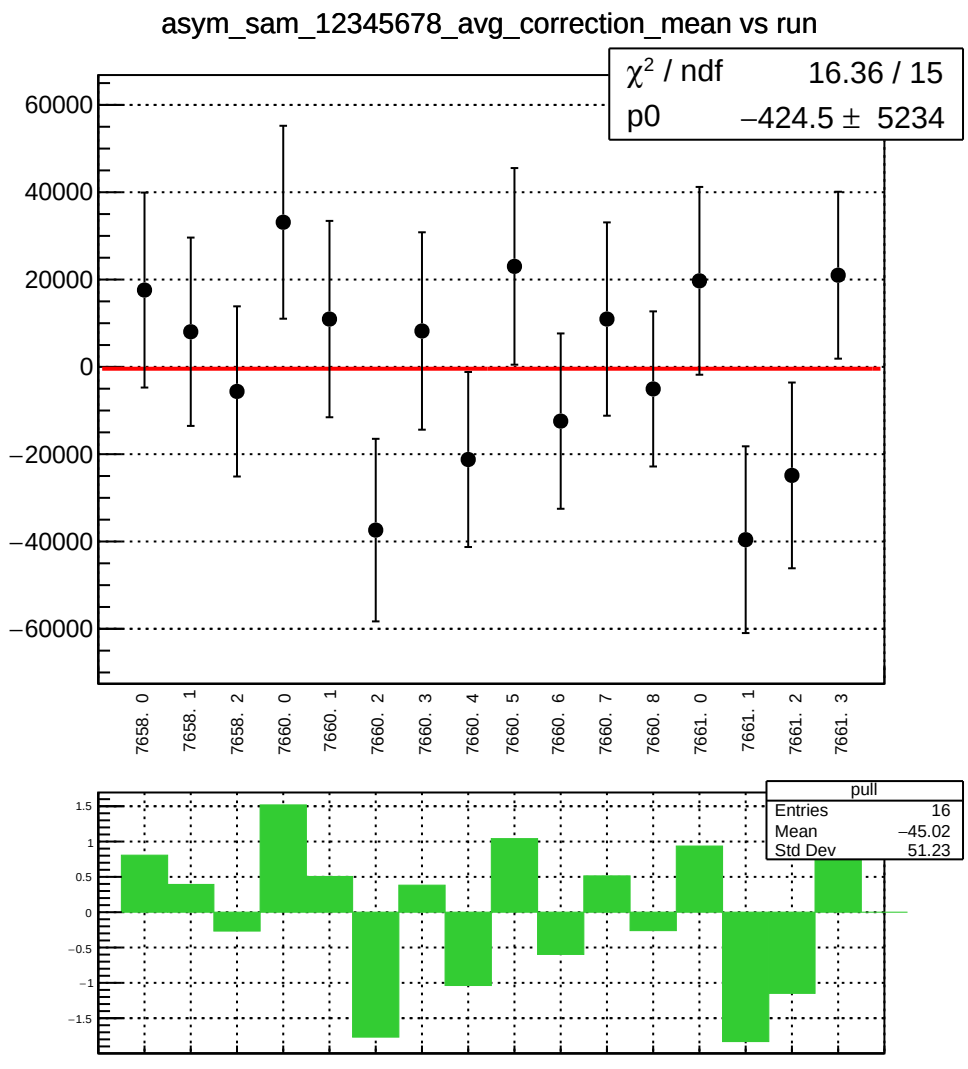

pull1D
Entries 16
Mean 0.02351
Std Dev 0.9811
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

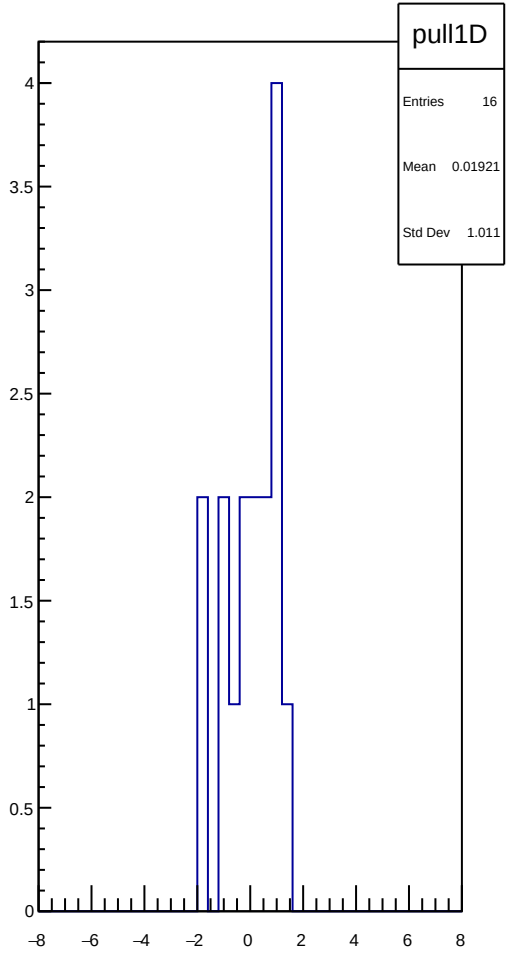

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 670.7 / 15
p0 734.3 ± 1.337
820
800
780
760
740
720
700
680
660
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

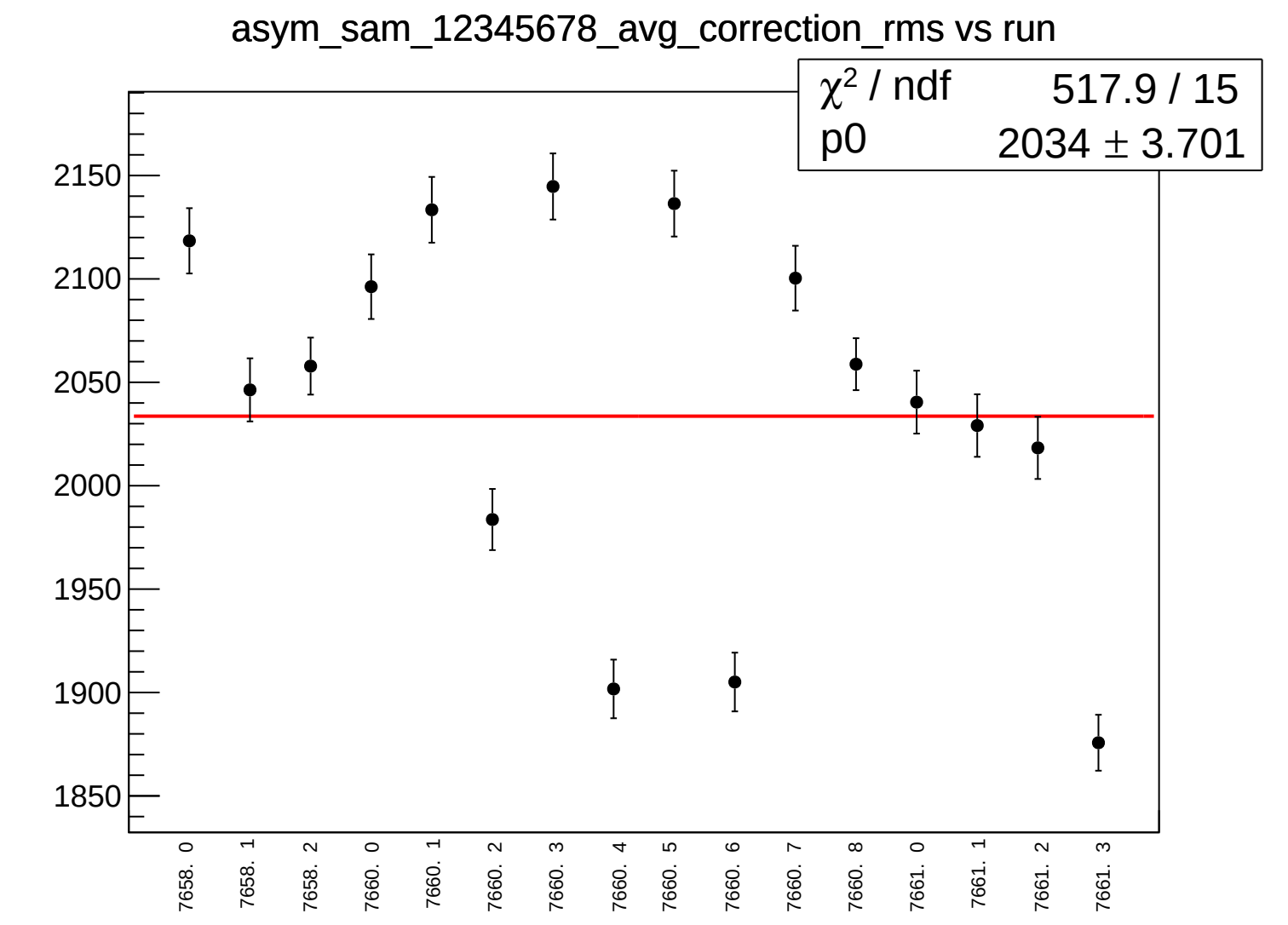

dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 7.791 / 15
p0 −9.606 ± 398.1
4000
2000
0
−2000
−4000
−6000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 8.609
Std Dev 9.632
1.5
1
0.5
0
−0.5
−1

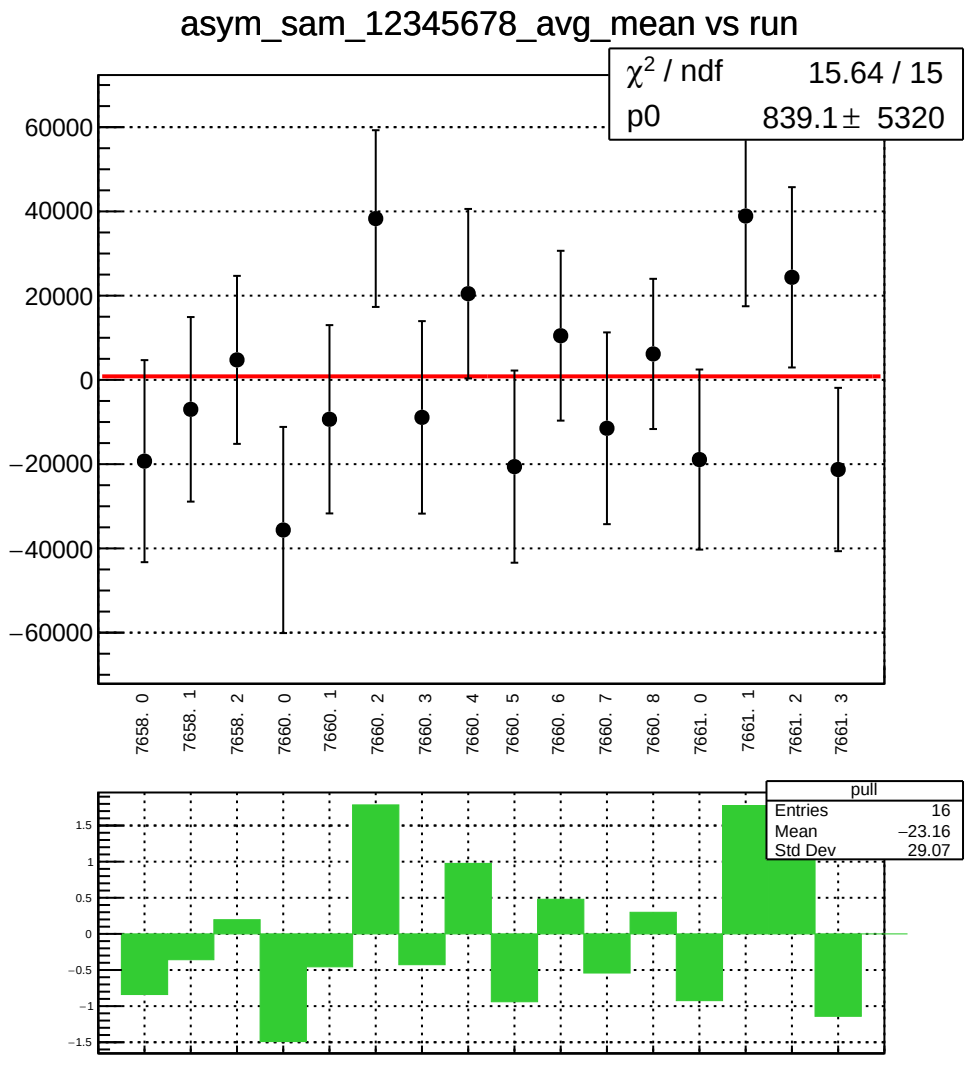

pull1D
Entries 16
Mean −0.0423
Std Dev 0.6965
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

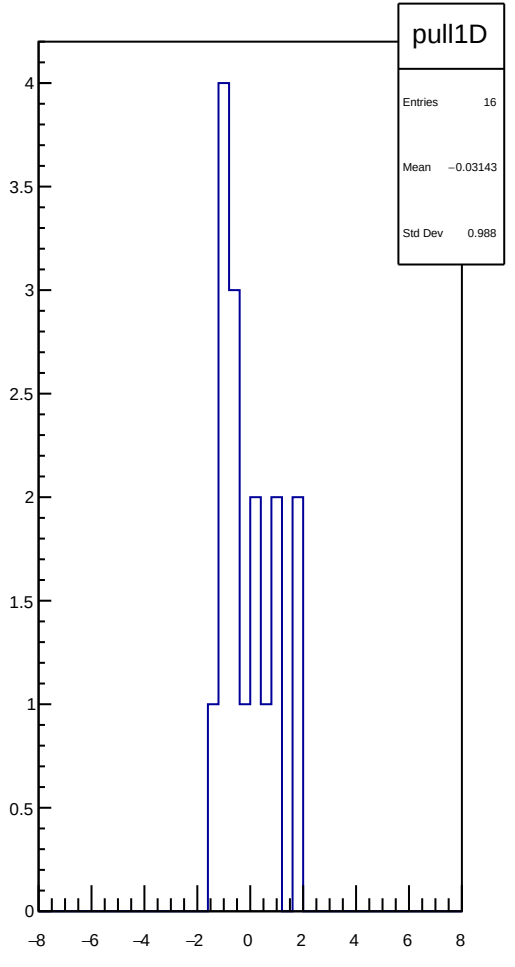

dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.141e+04 / 15
p0 151.9 ± 0.2815
400
350
300
250
200
150
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

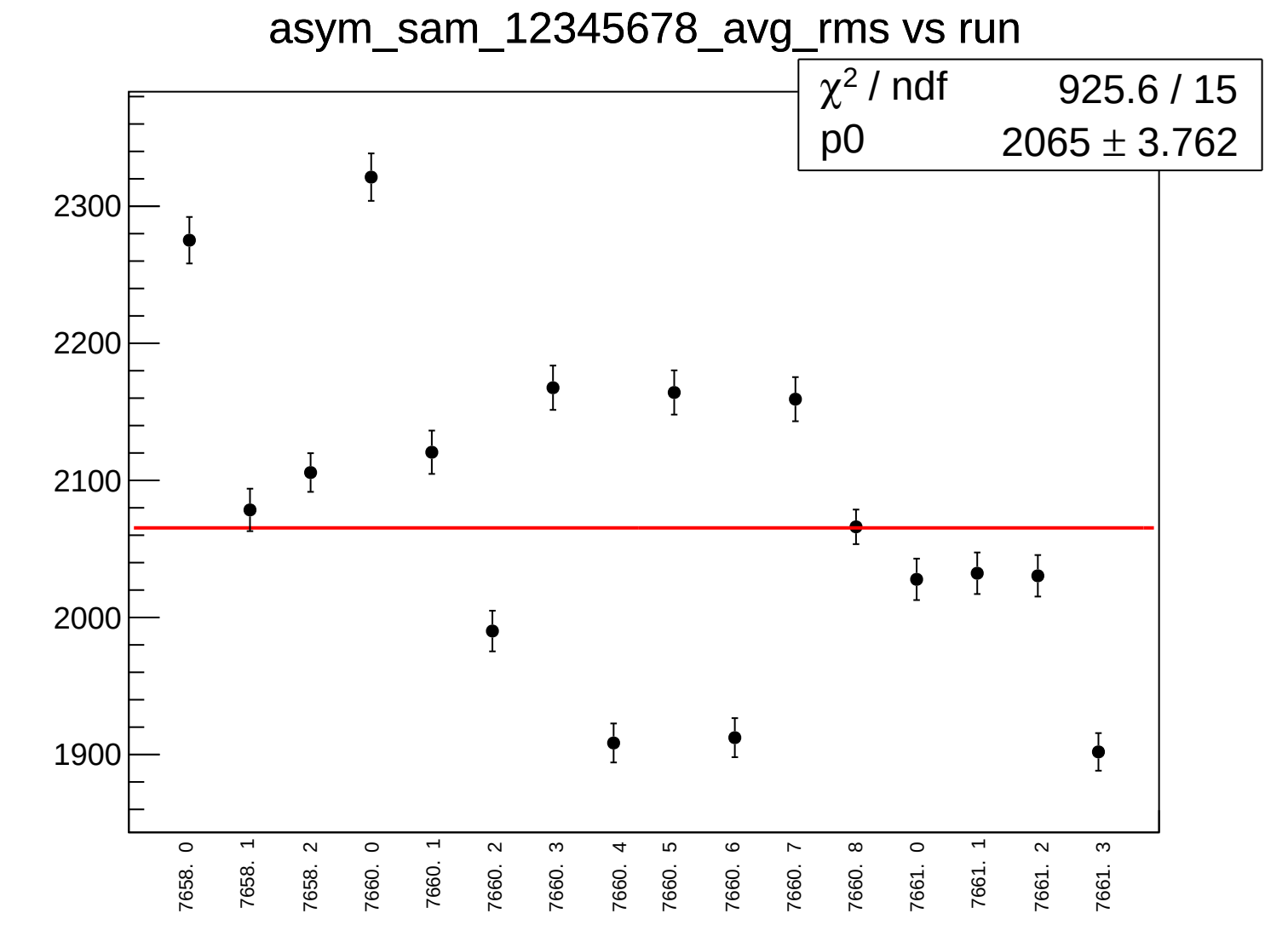

asym_sam_12345678_avg_correction_mean vs run
χ² / ndf 16.36 / 15
p0 −424.5 ± 5234
60000
40000
20000
0
−20000
−40000
−60000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −45.02
Std Dev 51.23
1.5
1
0.5
0
−0.5
−1
−1.5

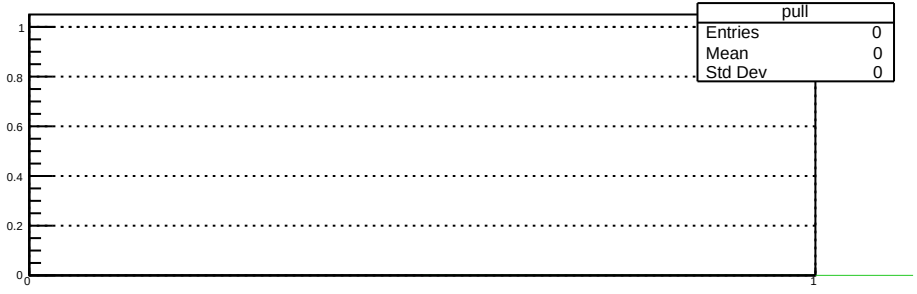

pull1D
Entries 16
Mean 0.01921
Std Dev 1.011
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

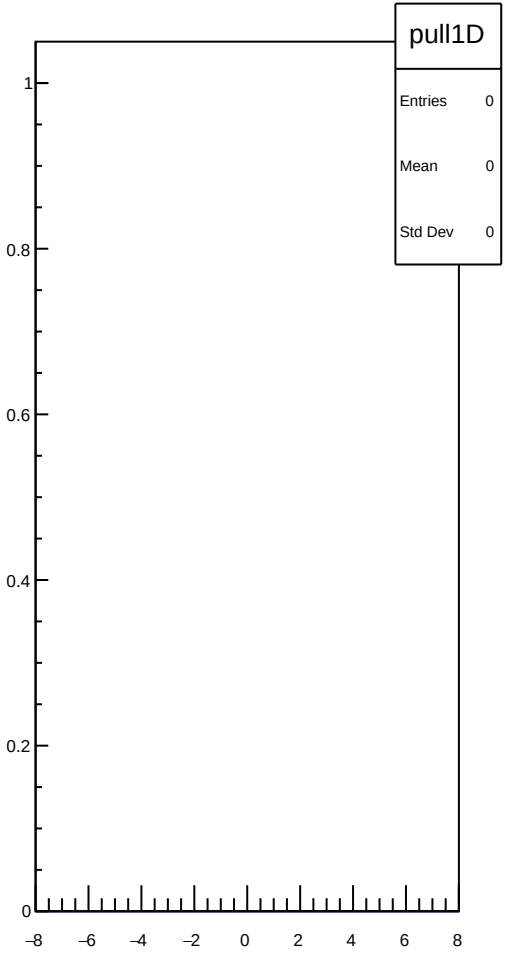

asym_sam_12345678_avg_correction_rms vs run
χ² / ndf 517.9 / 15
p0 2034 ± 3.701
2150
2100
2050
2000
1950
1900
1850
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

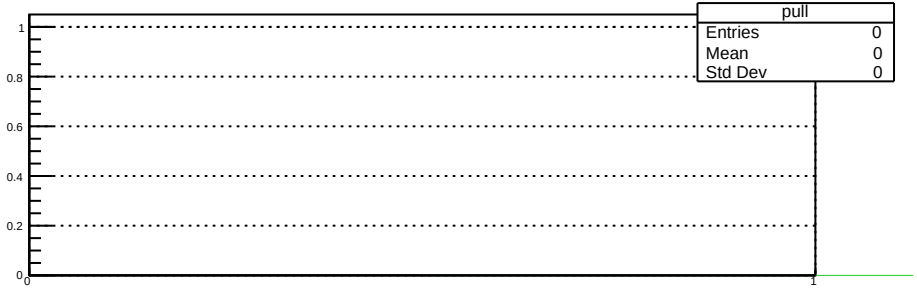

asym_sam_12345678_avg_mean vs run
χ² / ndf 15.64 / 15
p0 839.1 ± 5320
60000
40000
20000
0
−20000
−40000
−60000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −23.16
Std Dev 29.07
1.5
1
0.5
0
−0.5
−1
−1.5

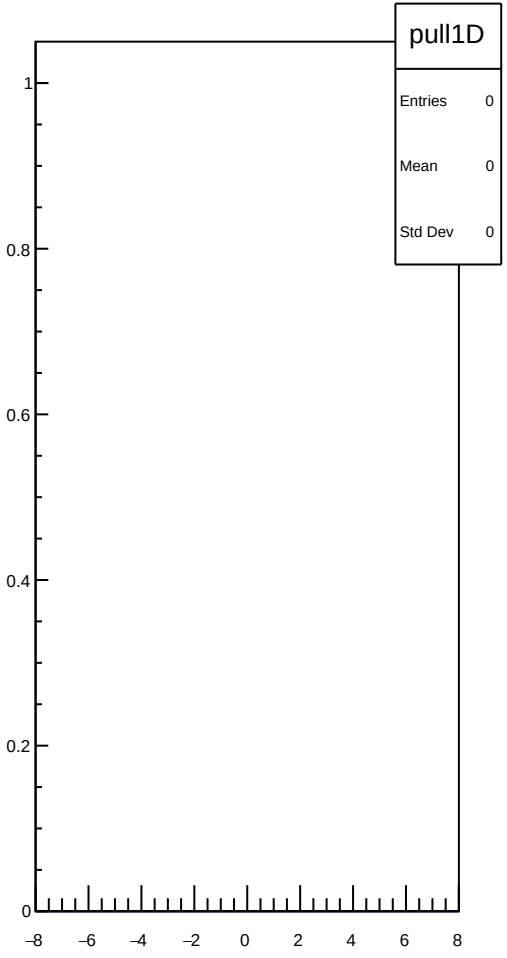

pull1D
Entries 16
Mean −0.03143
Std Dev 0.988
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_12345678_avg_rms vs run
χ² / ndf 925.6 / 15
p0 2065 ± 3.762
2300
2200
2100
2000
1900
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3


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
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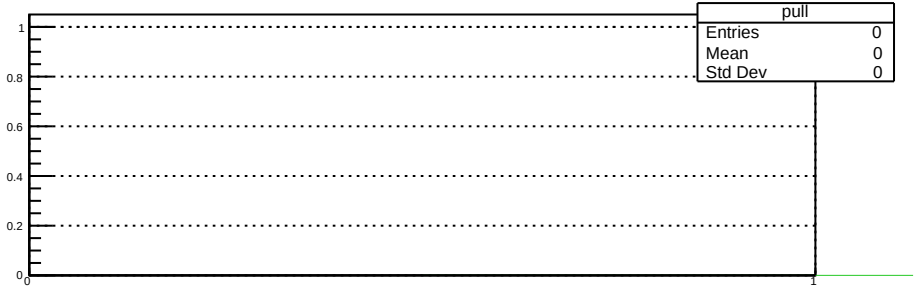
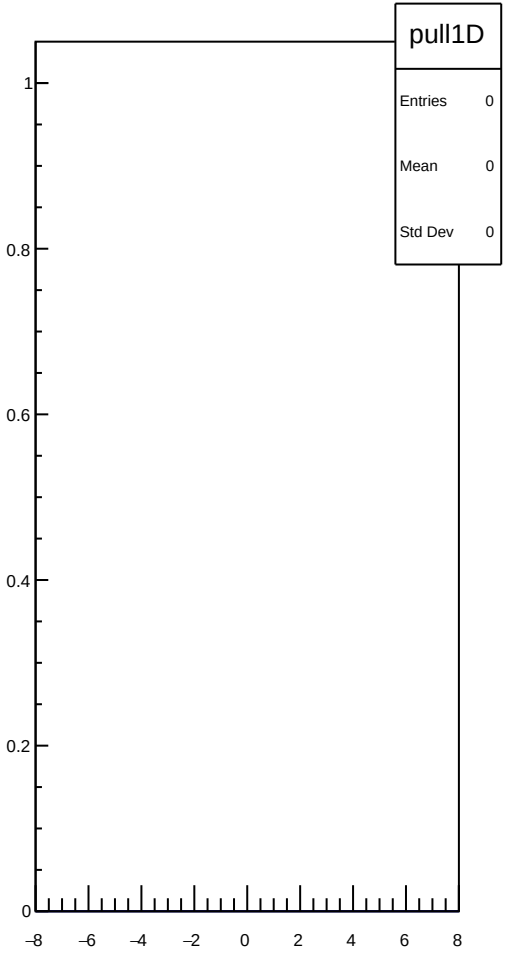
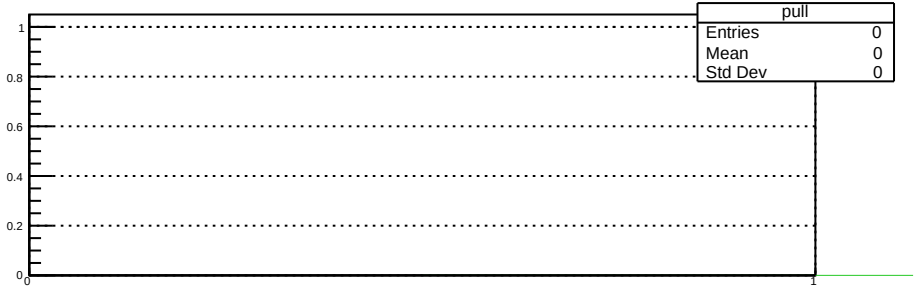
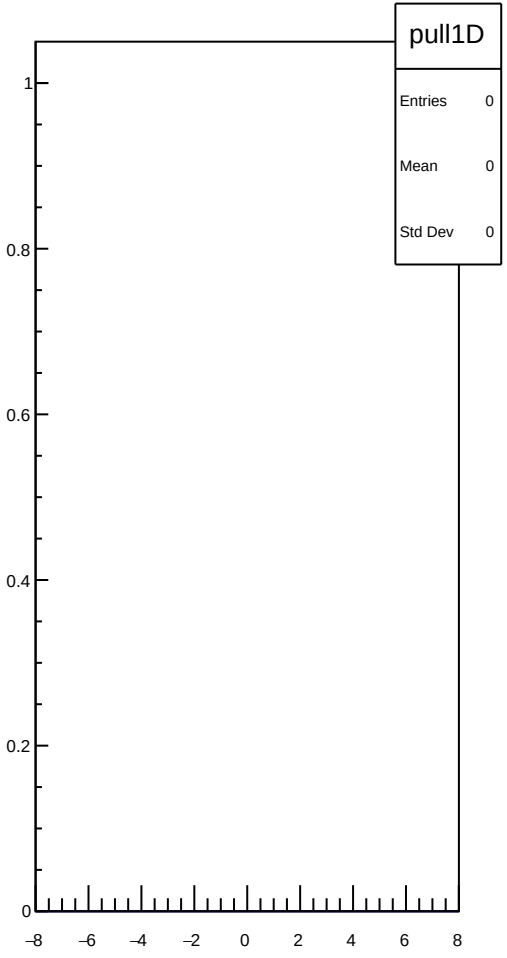
0
2
4
6
8


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
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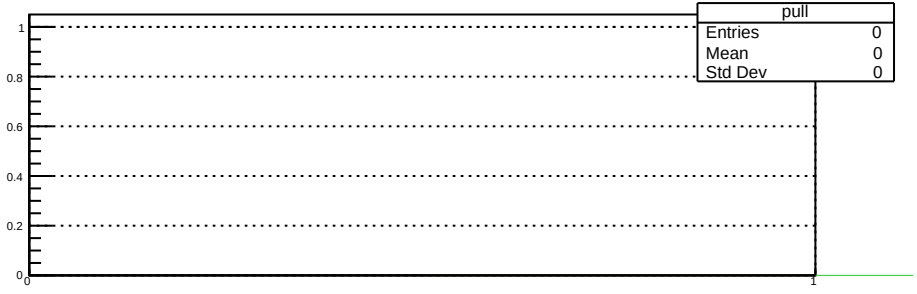
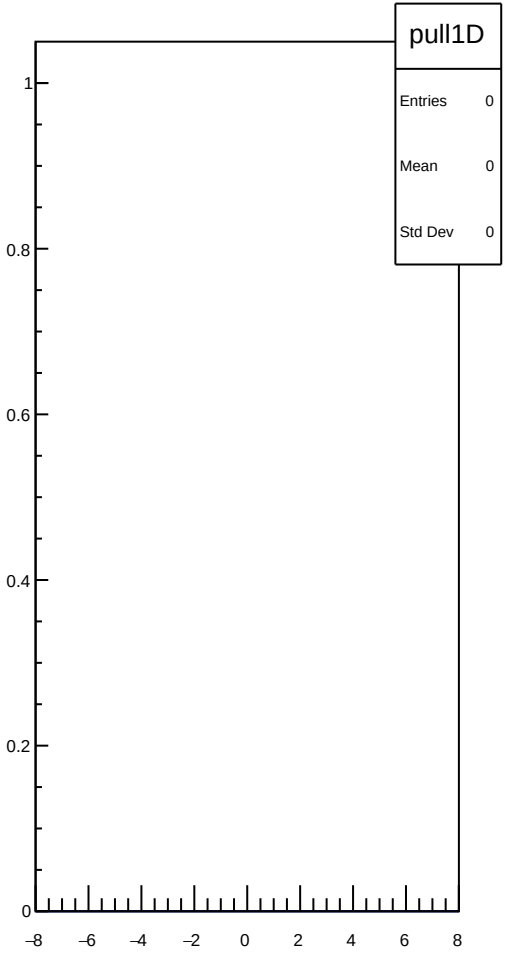
0
2
4
6
8


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
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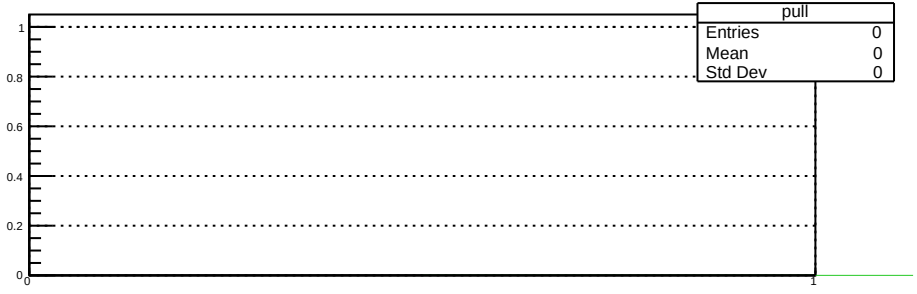
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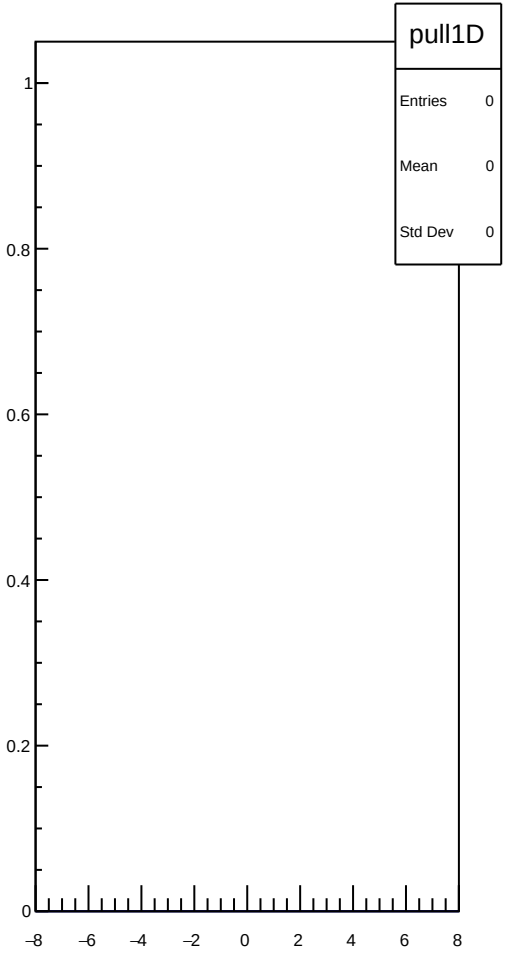
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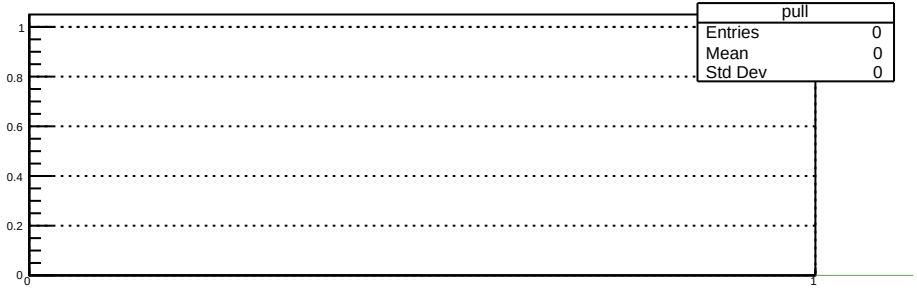
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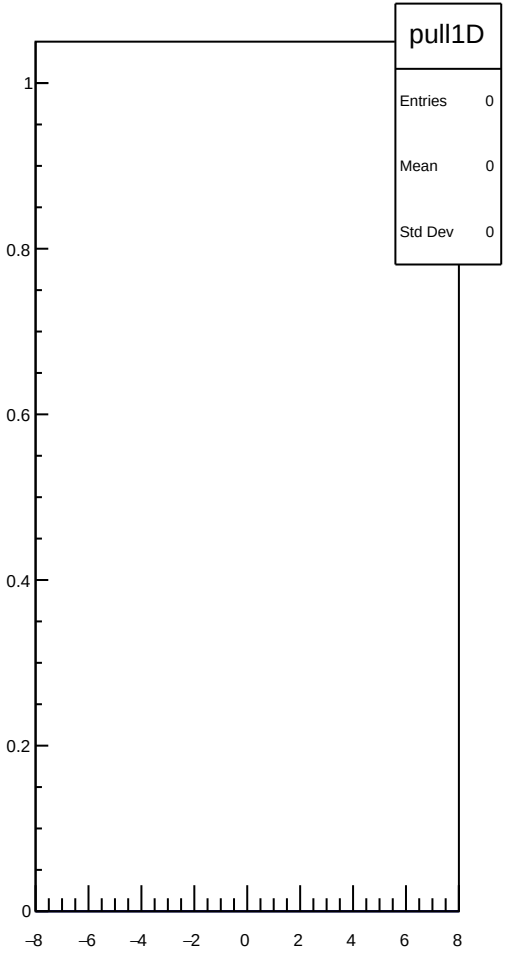
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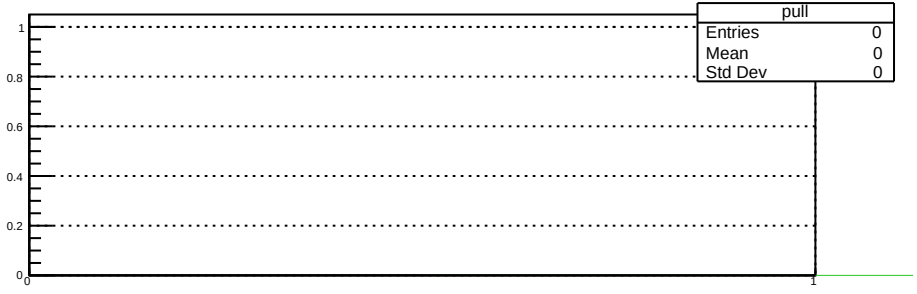
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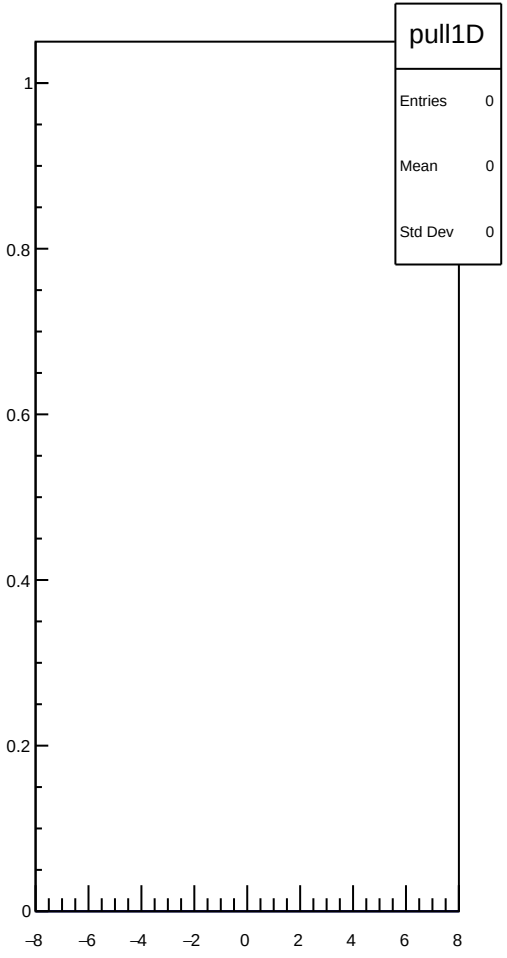
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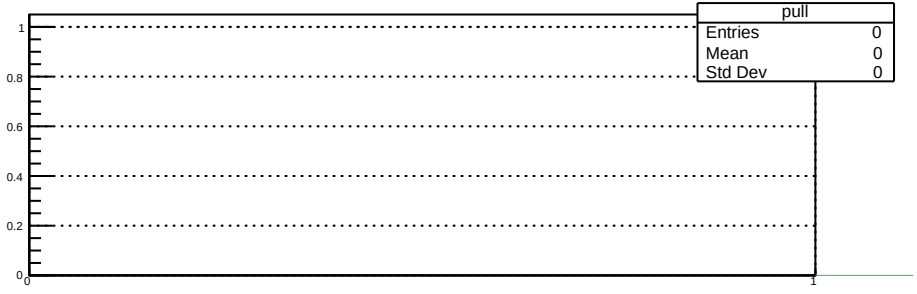
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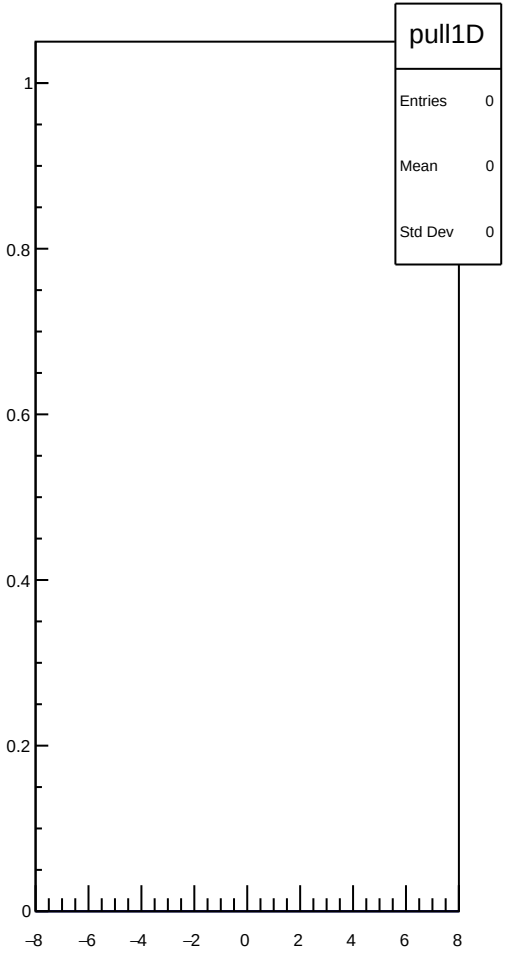
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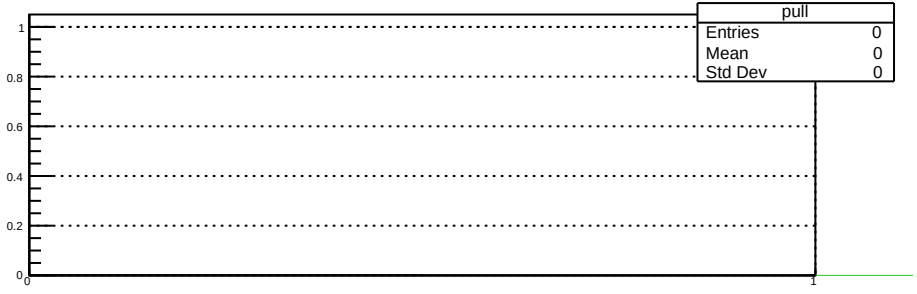
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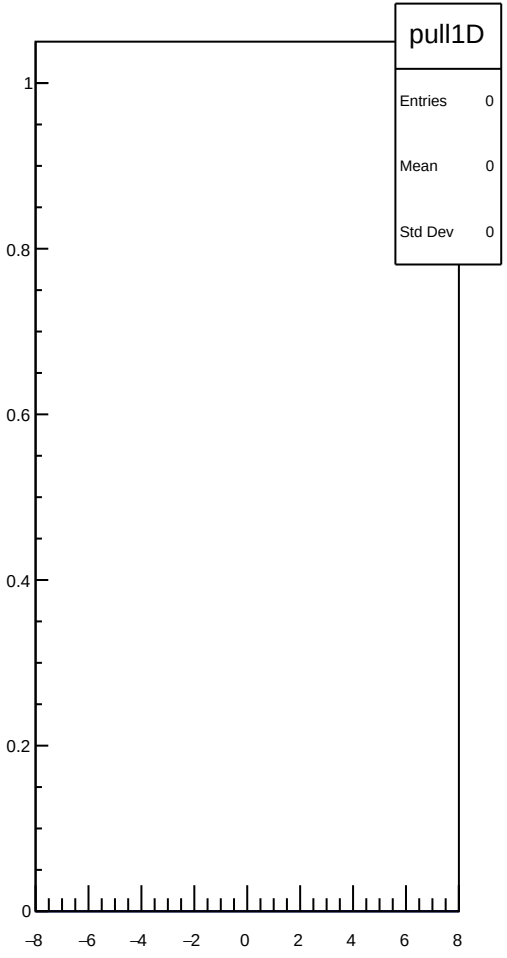
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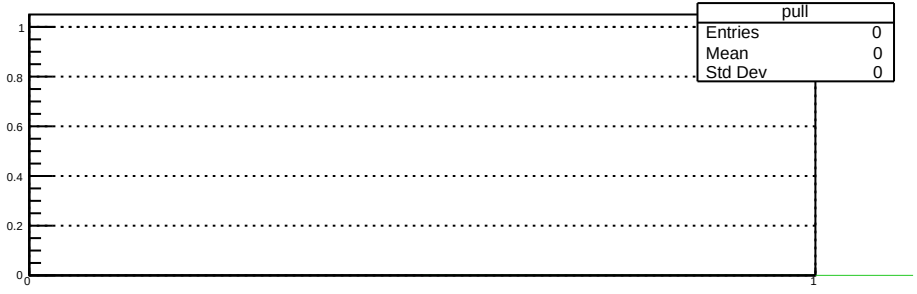
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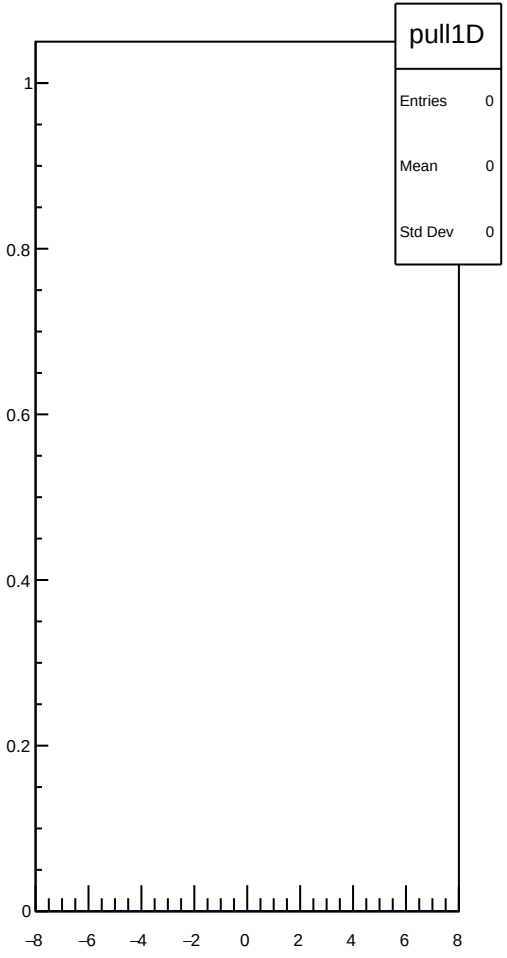
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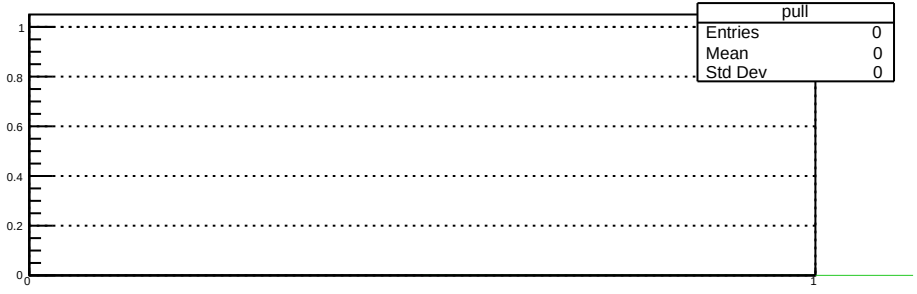
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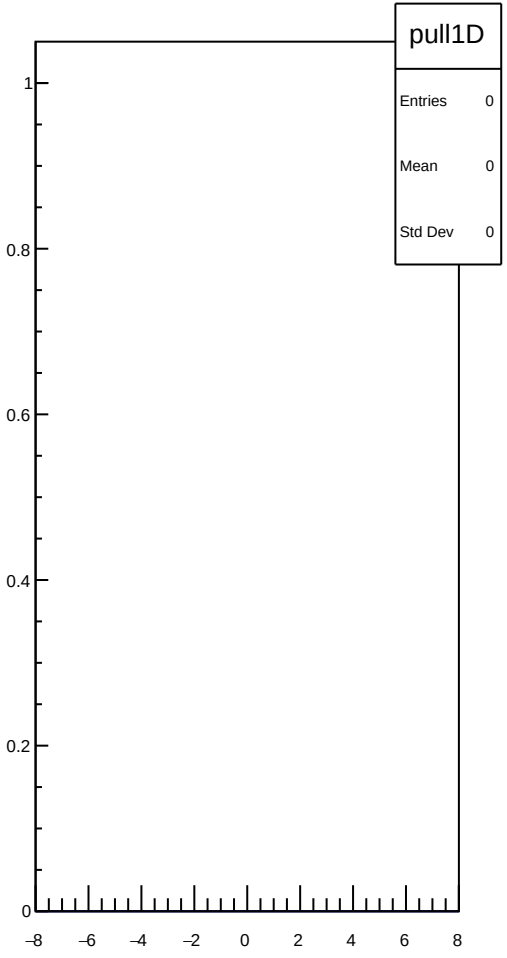
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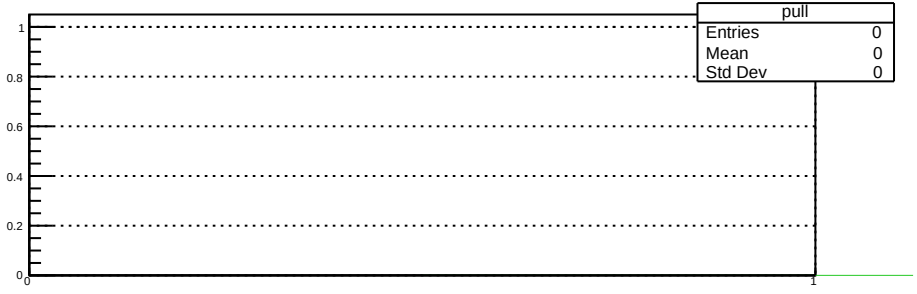
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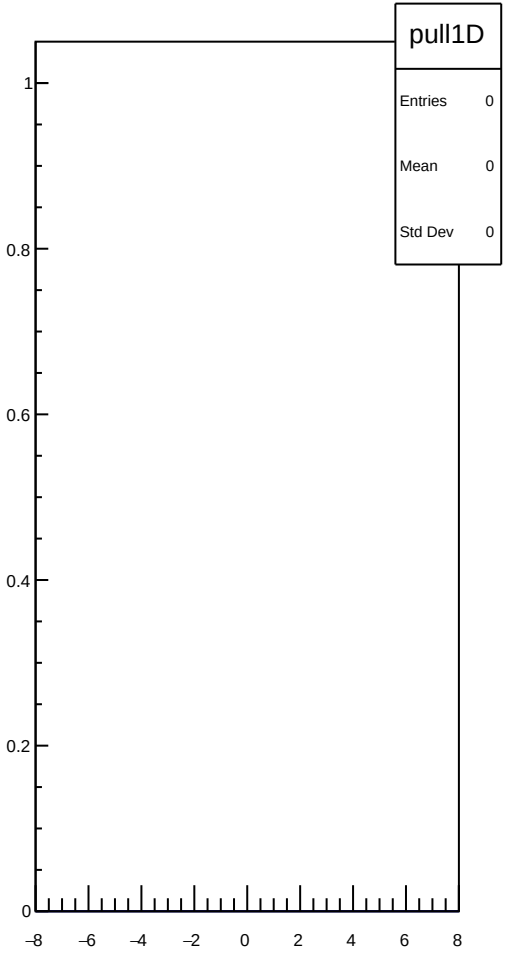
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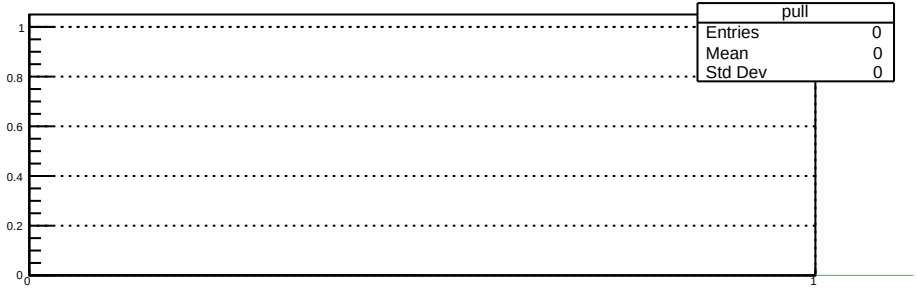
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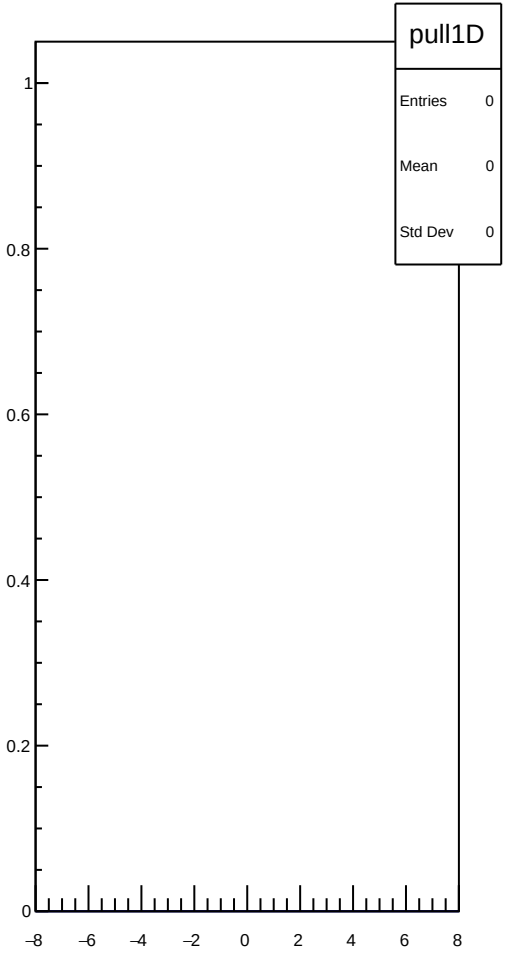
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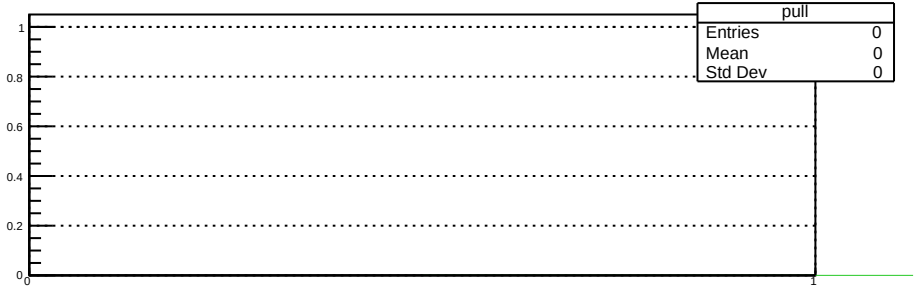
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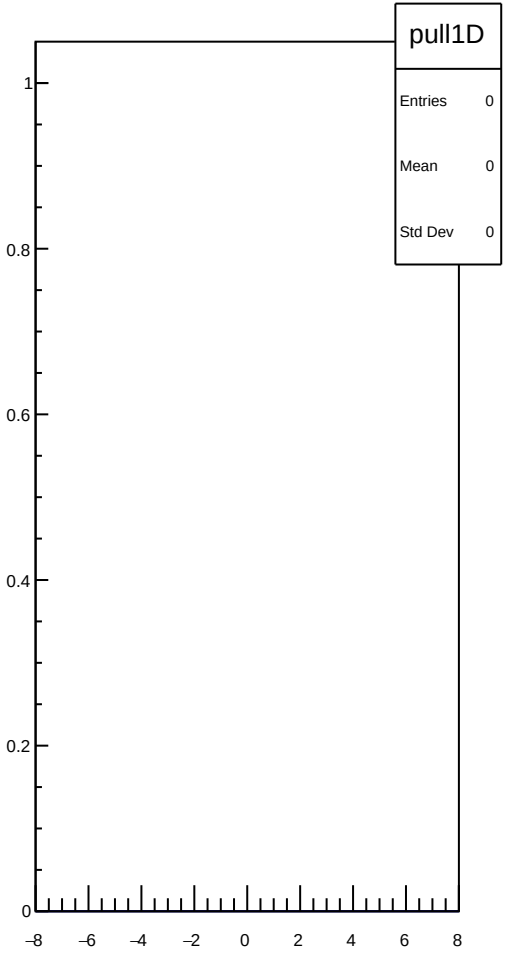
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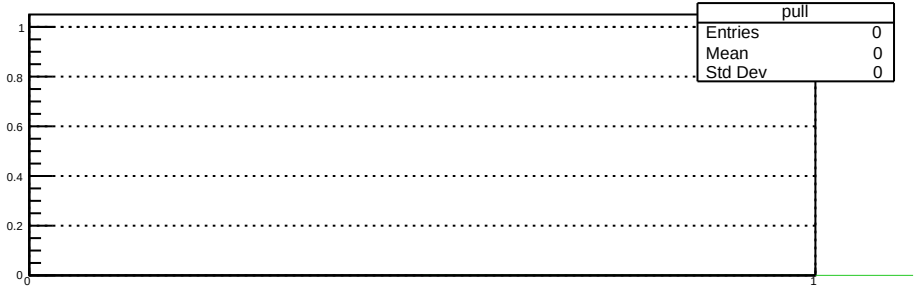
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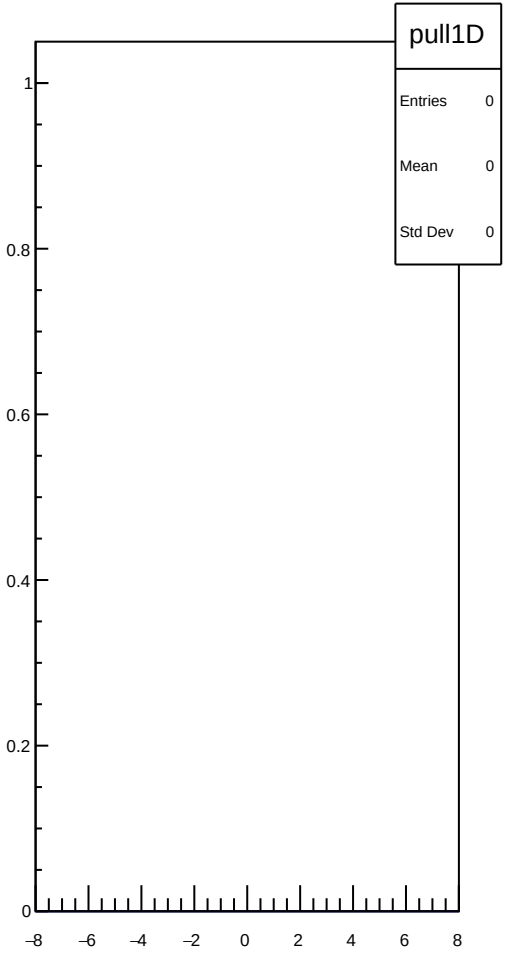
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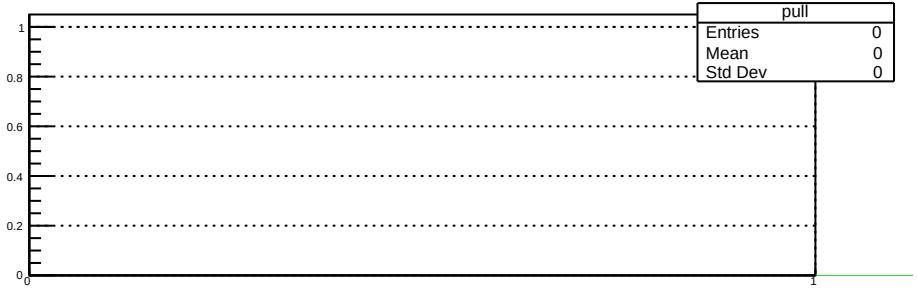
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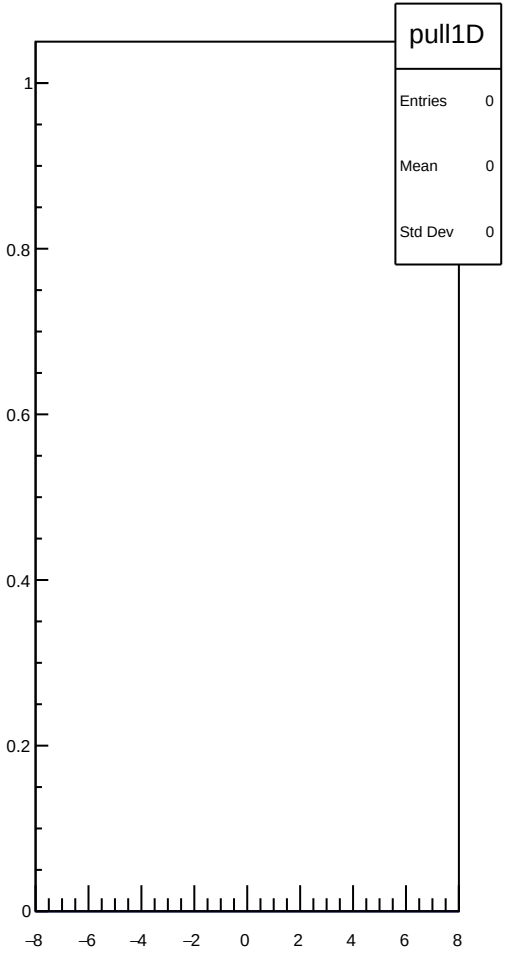
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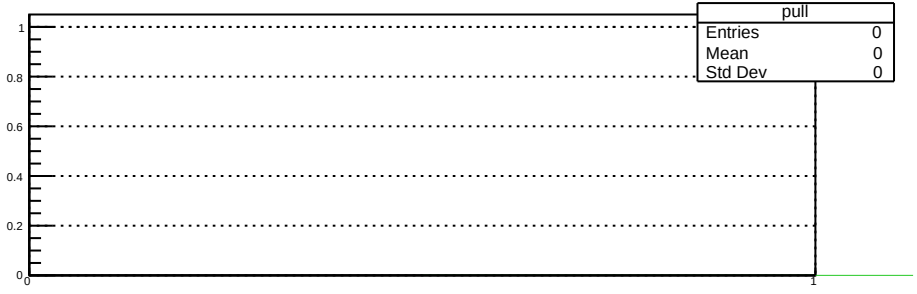
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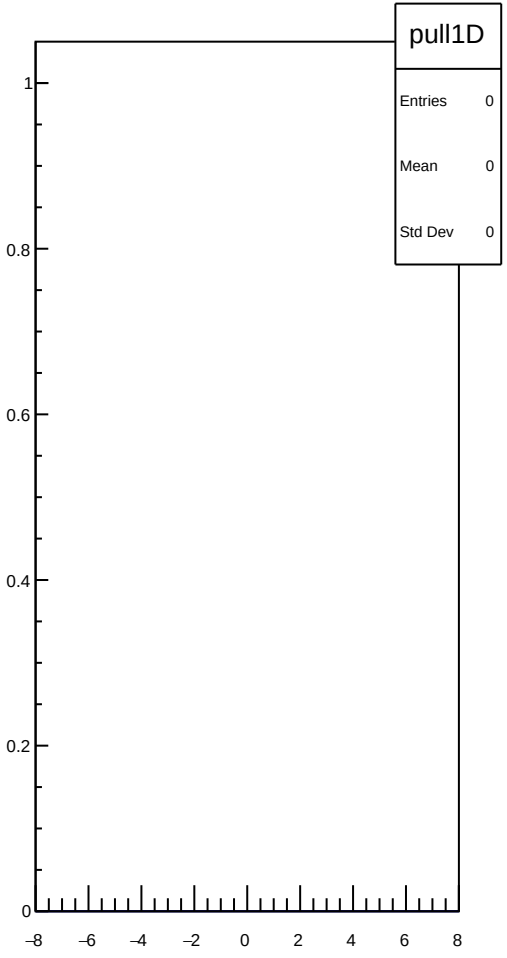
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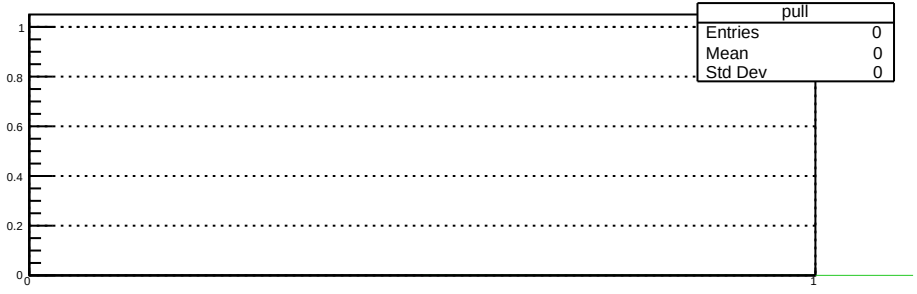
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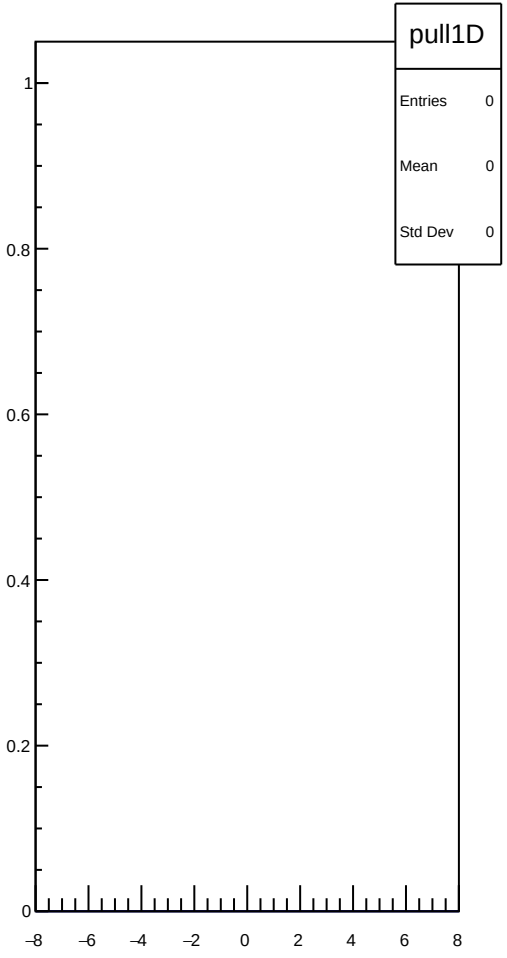
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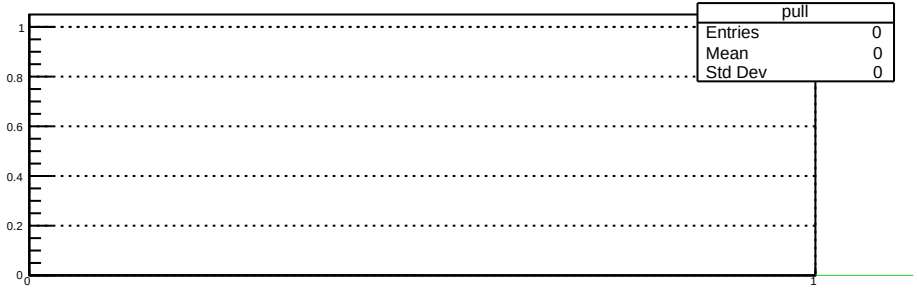
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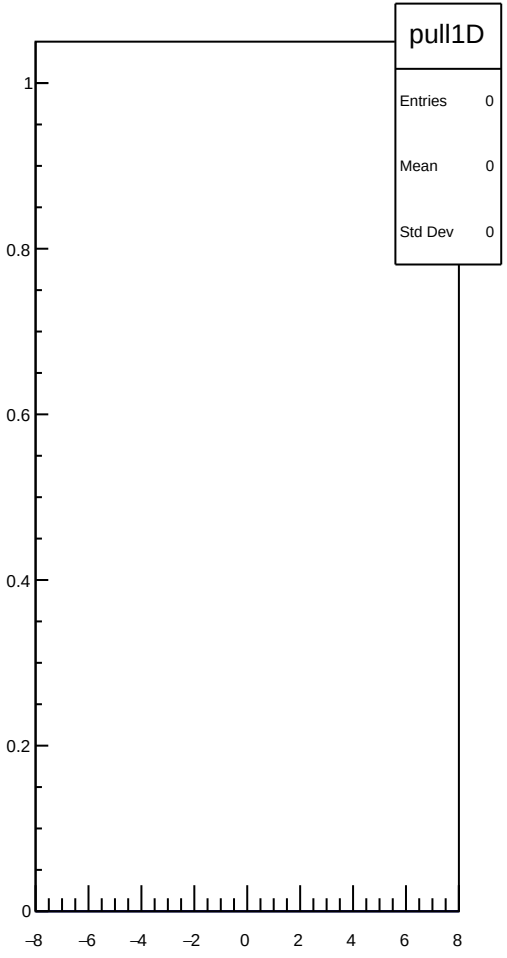
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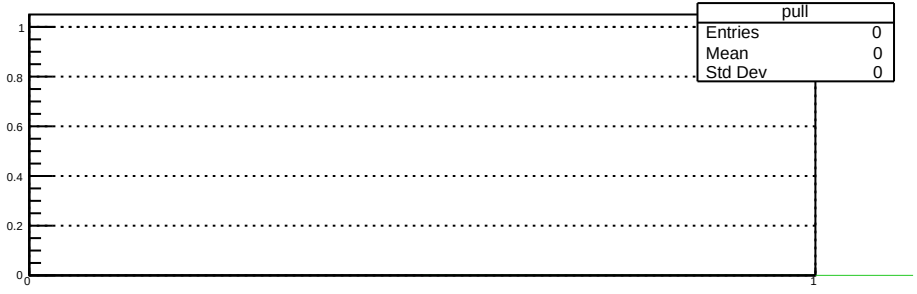
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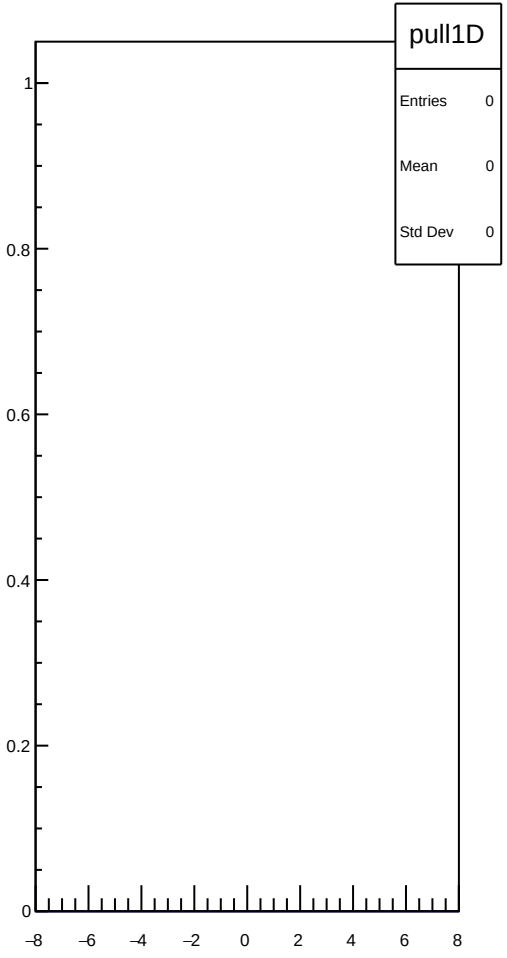
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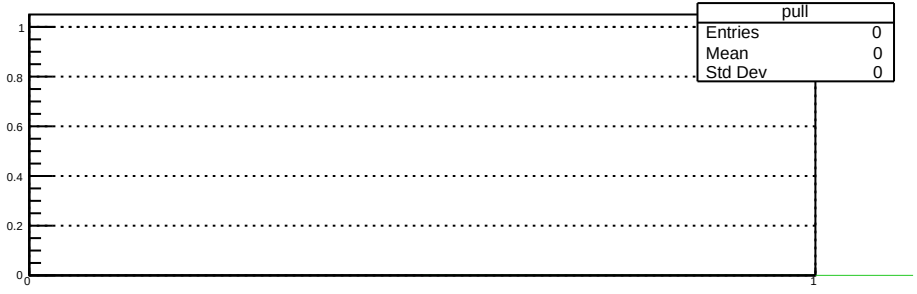
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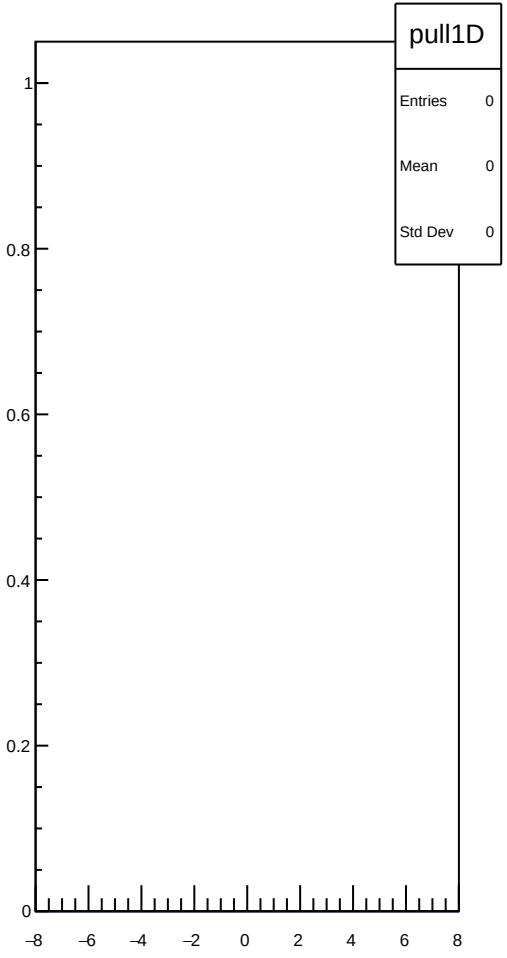
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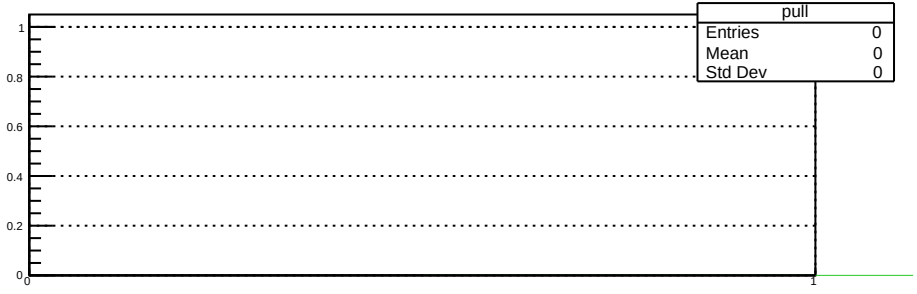
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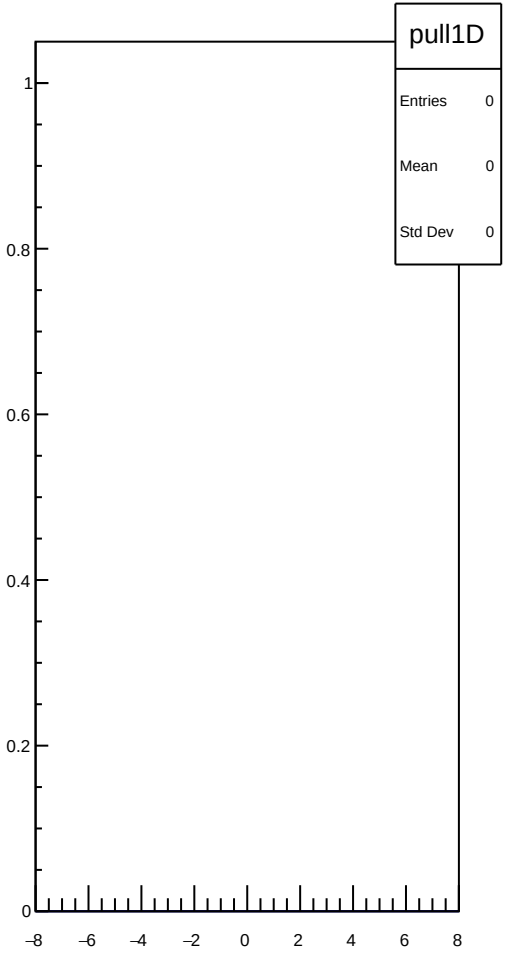
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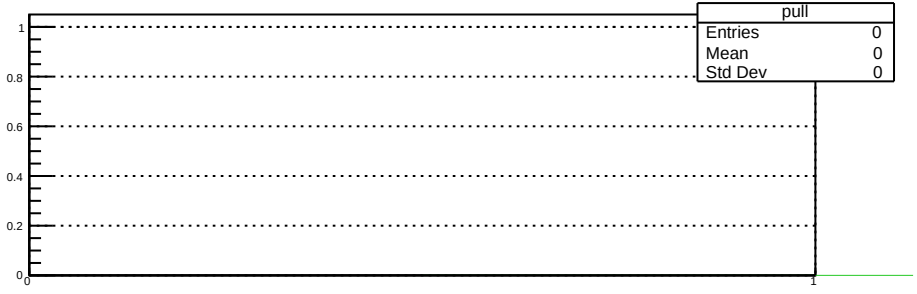
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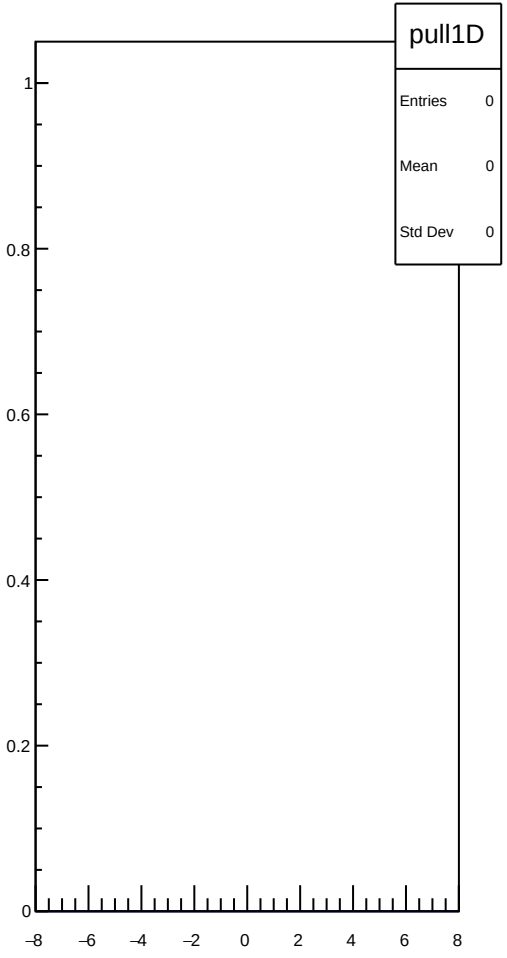
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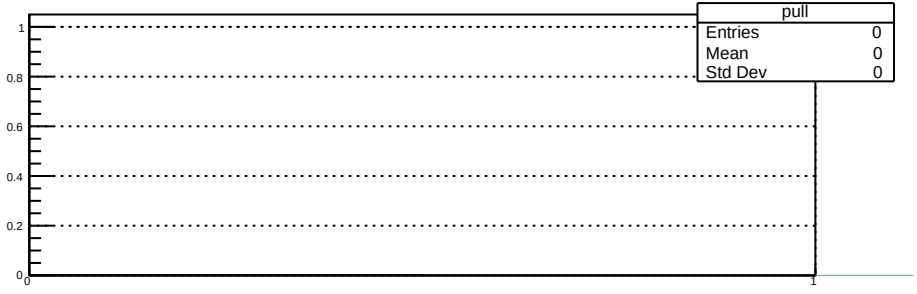
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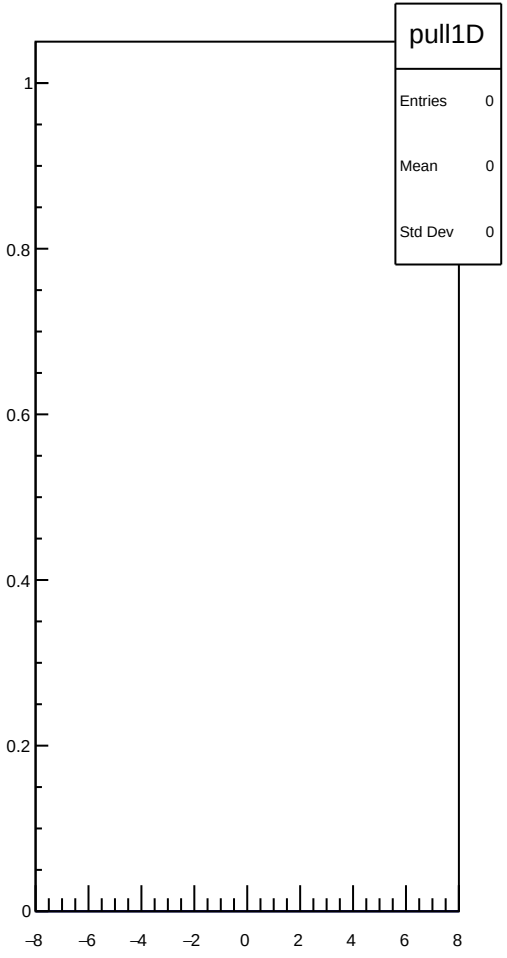
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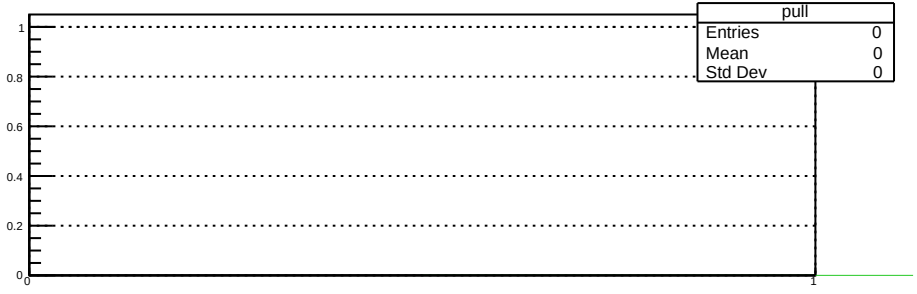
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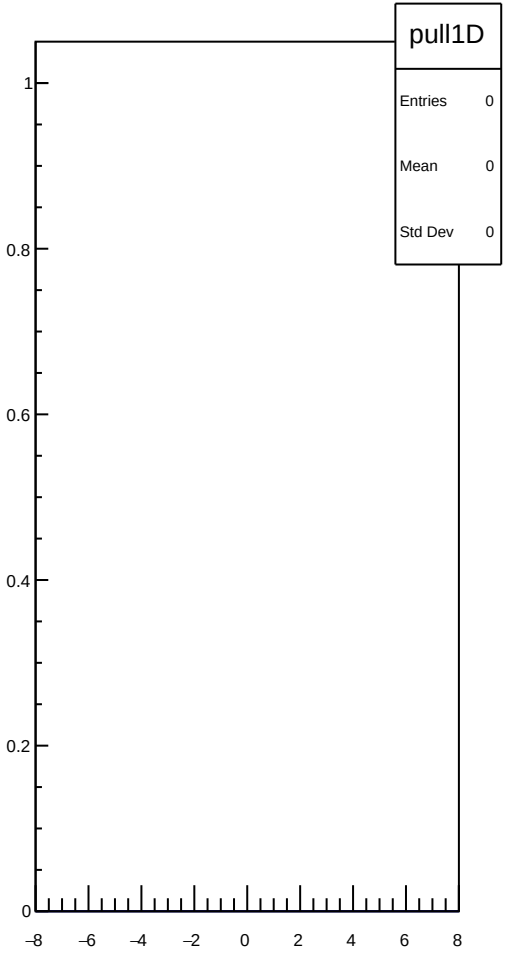
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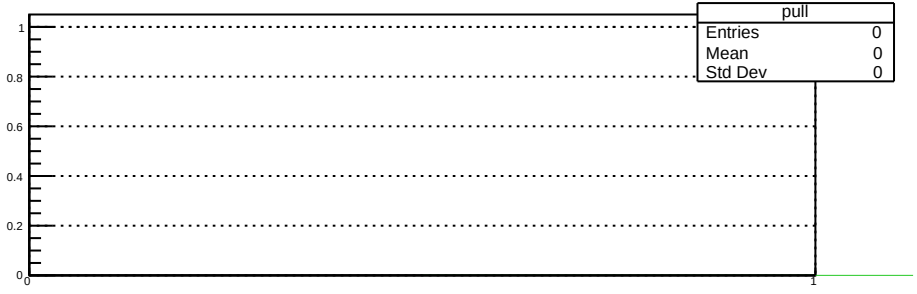
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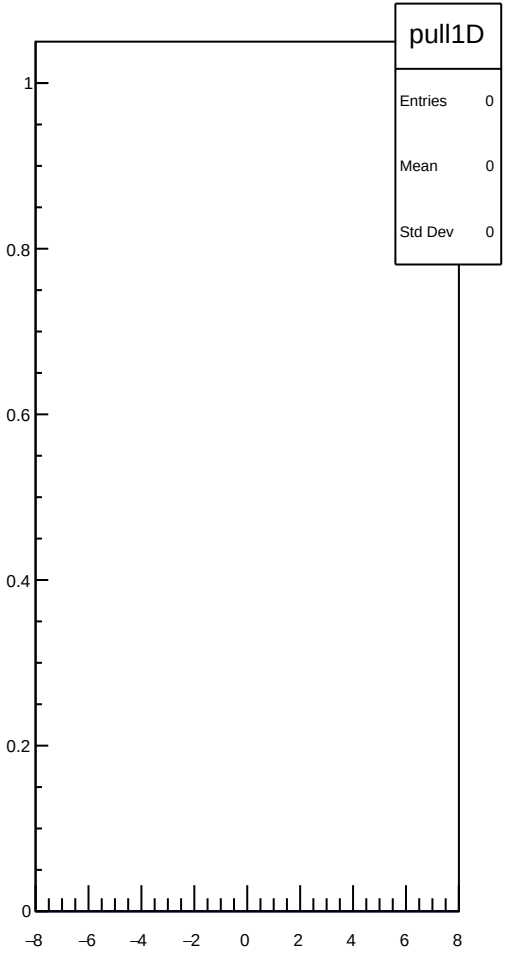
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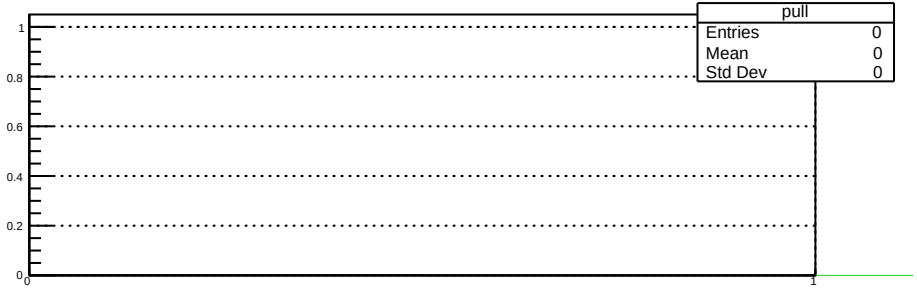
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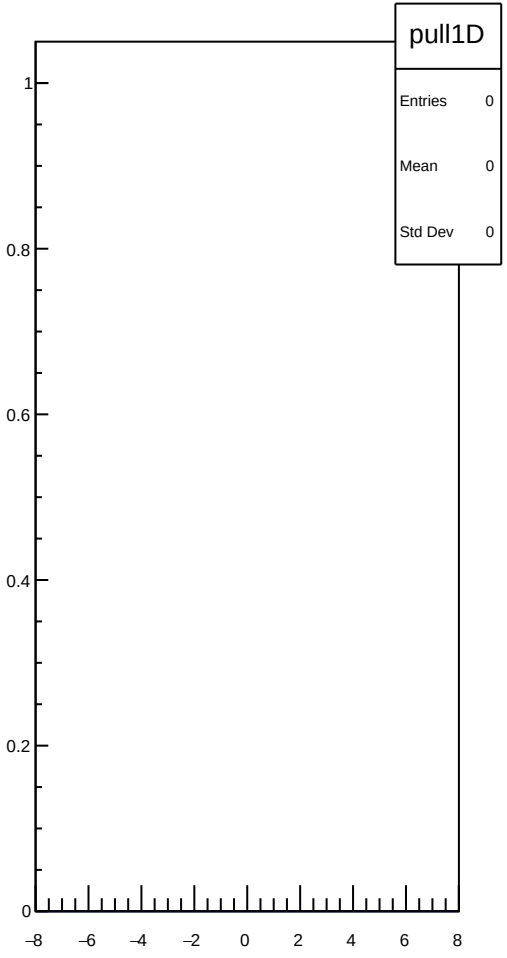
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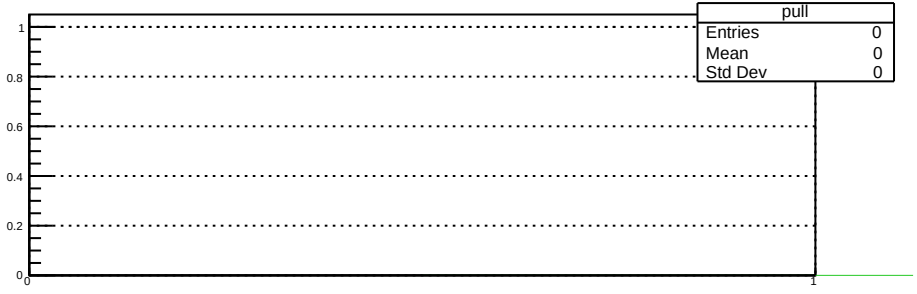
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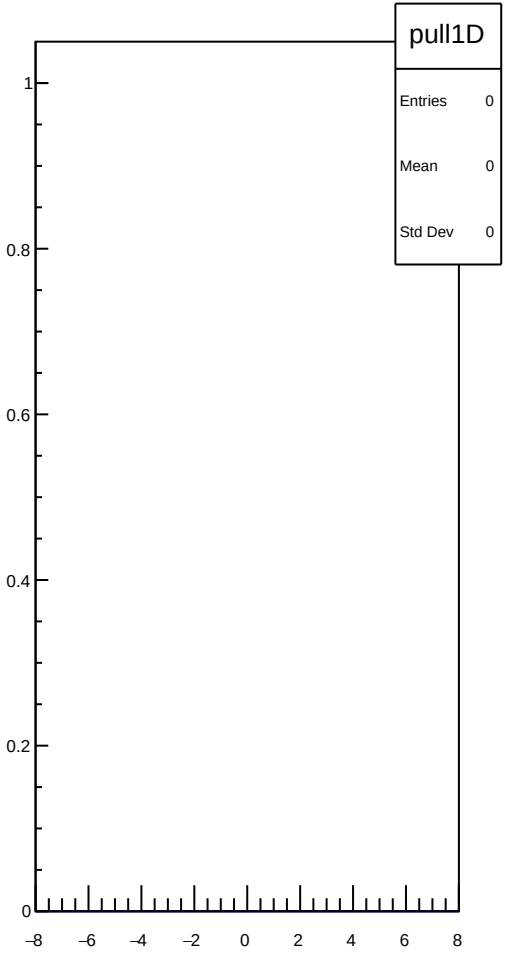
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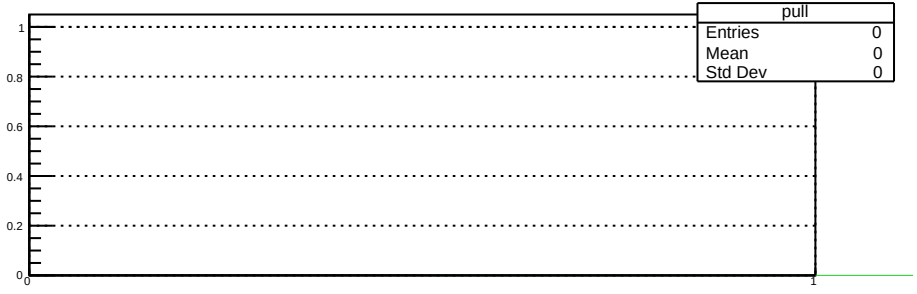
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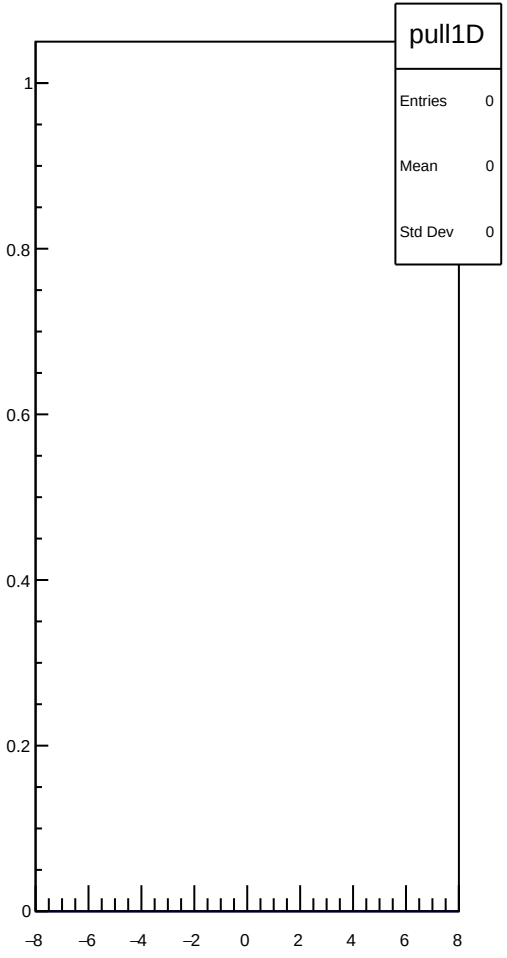
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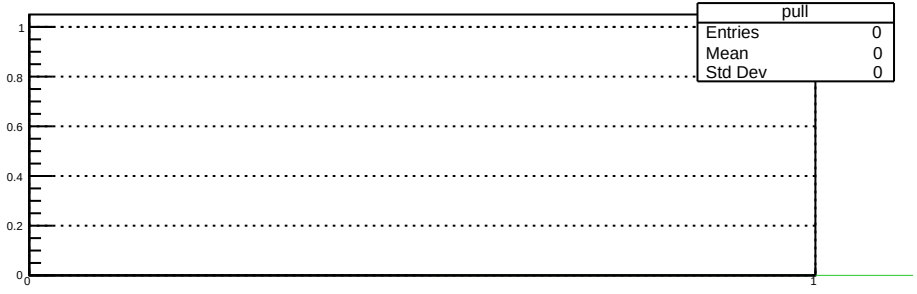
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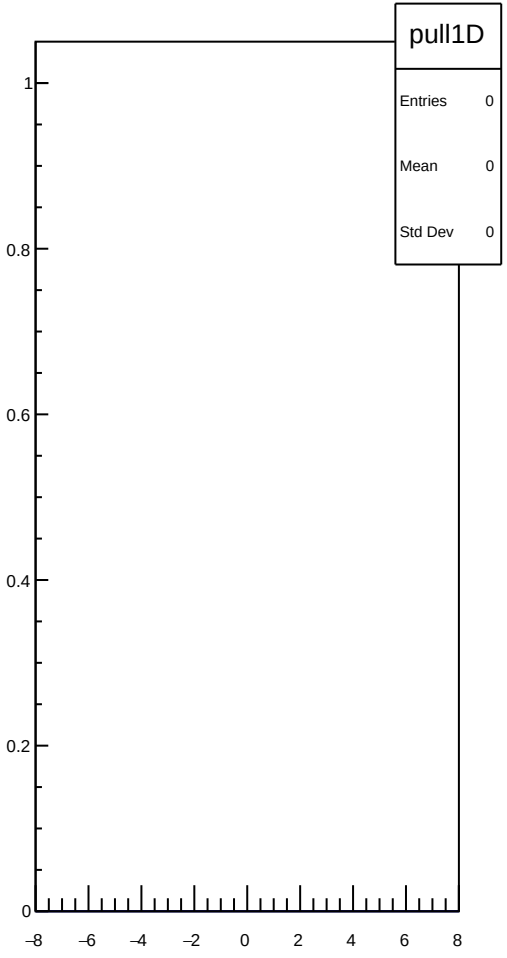
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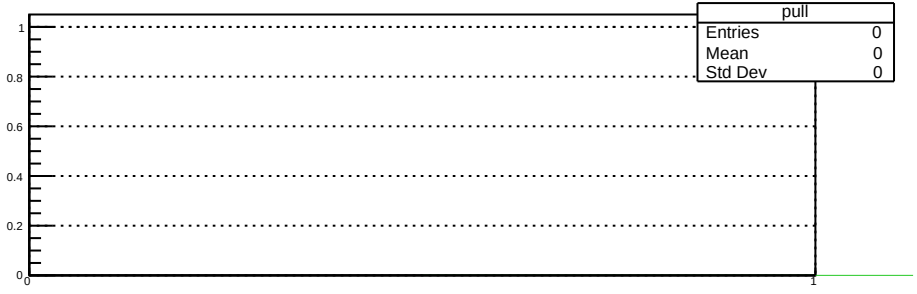
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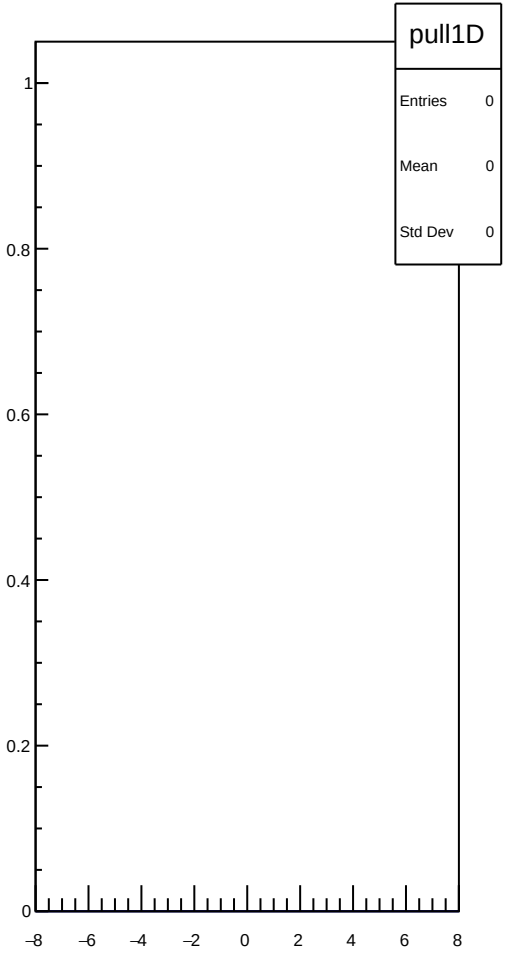
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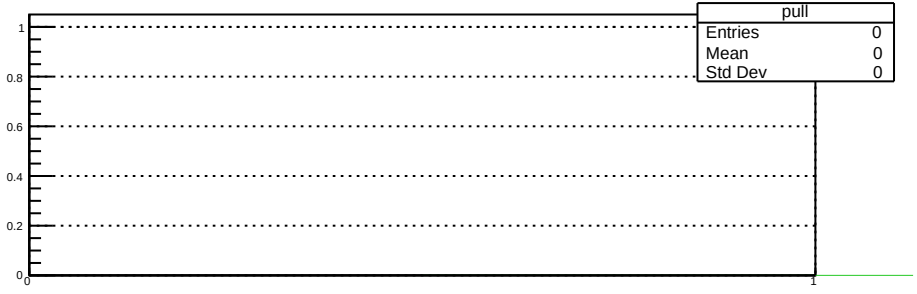
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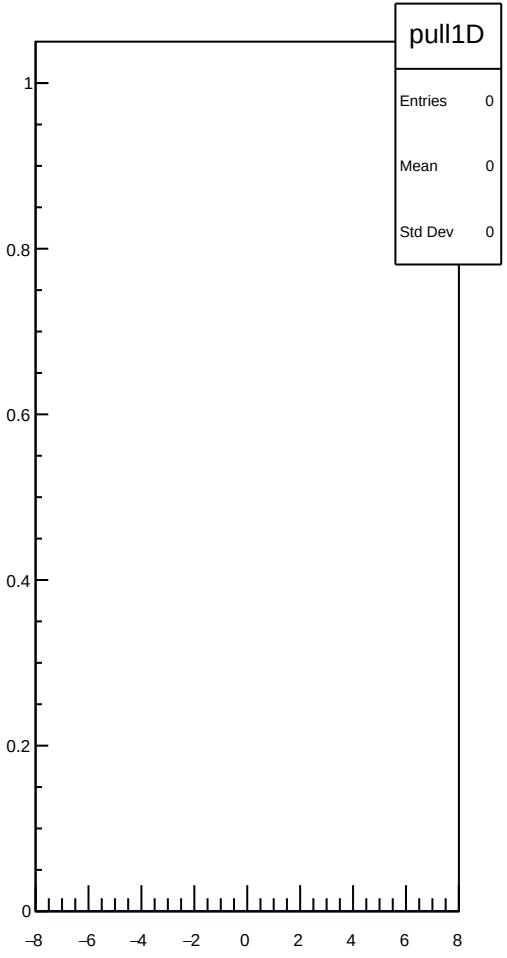
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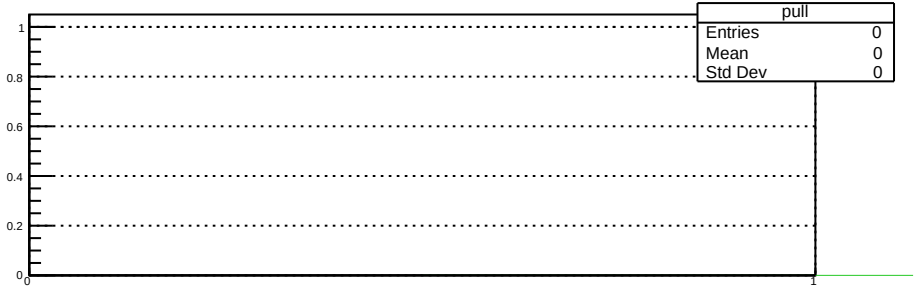
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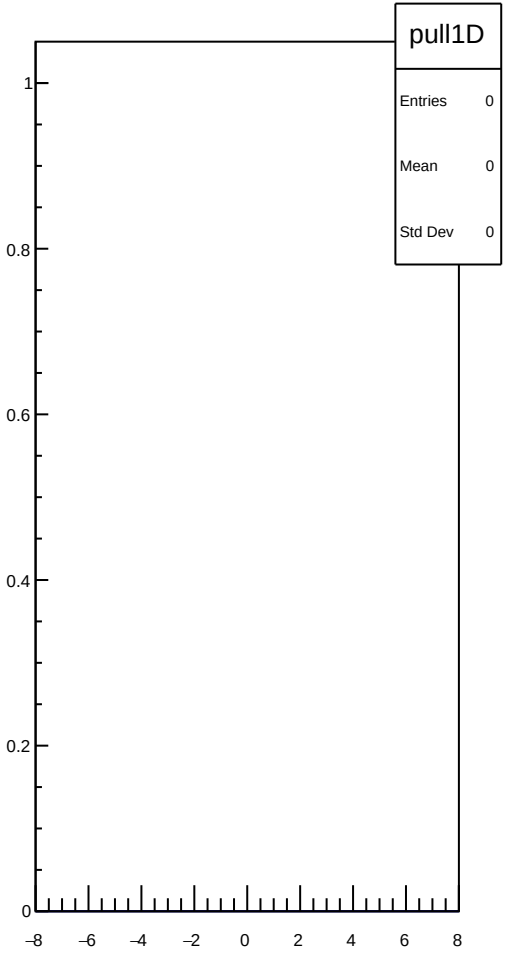
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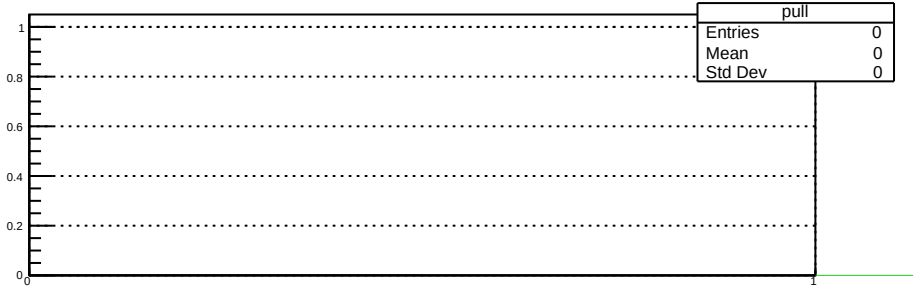
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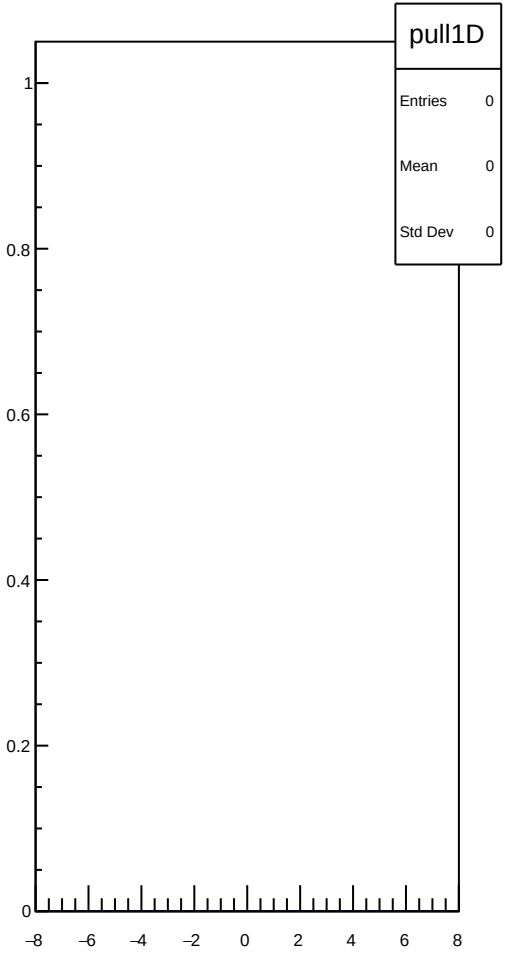
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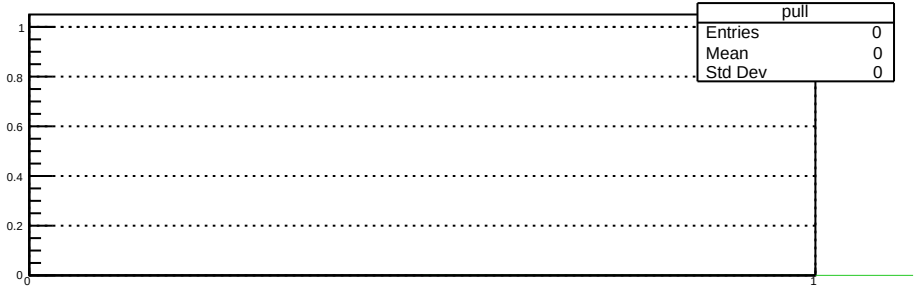
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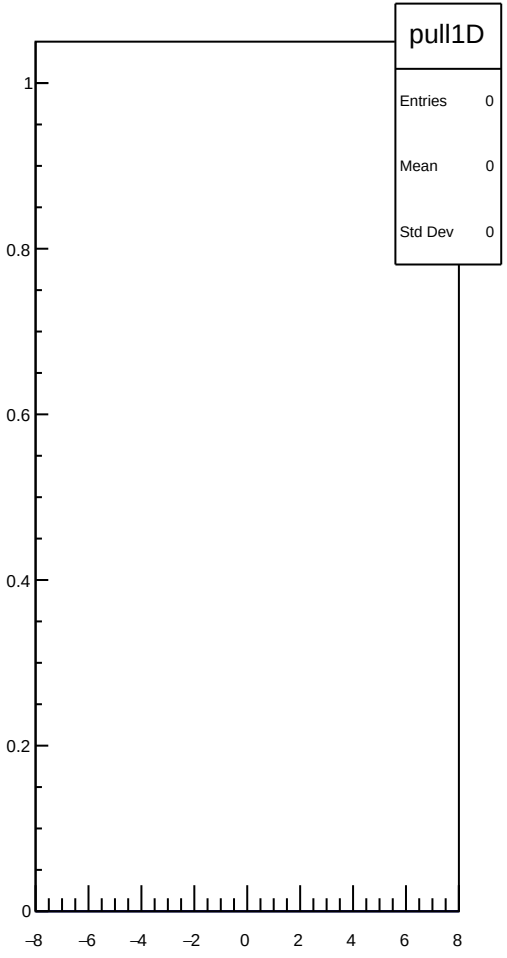
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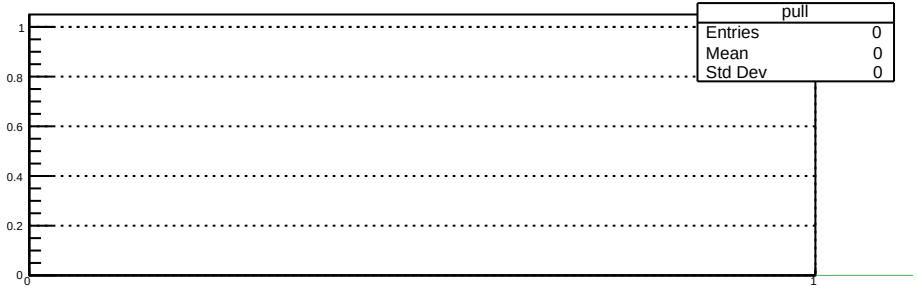
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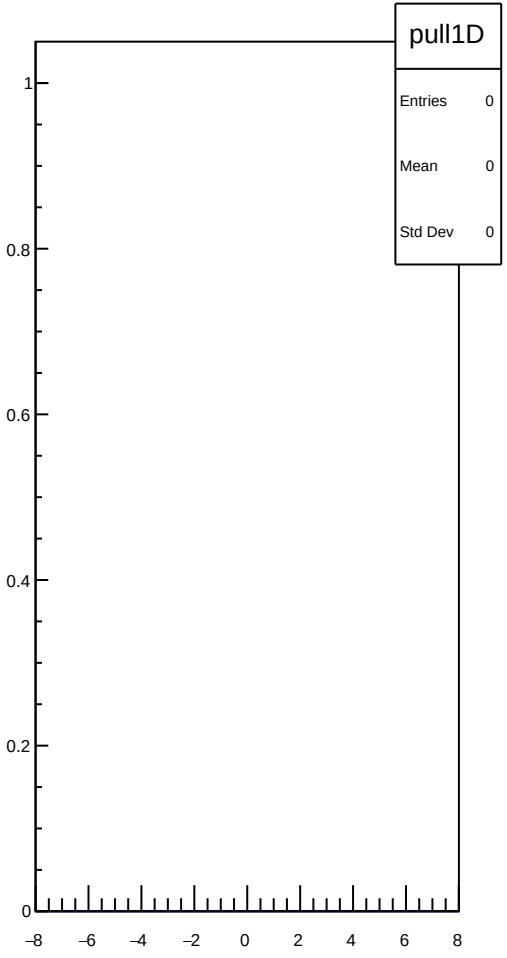
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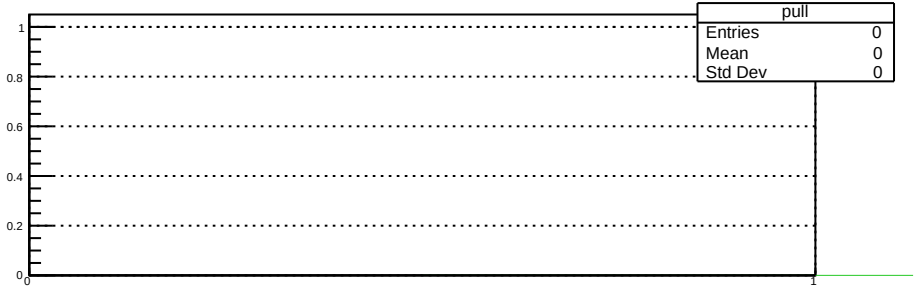
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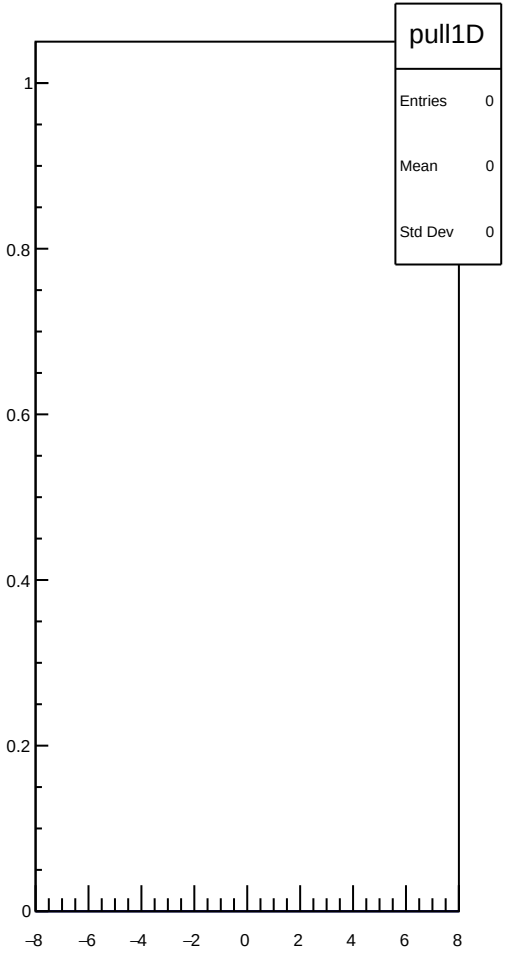
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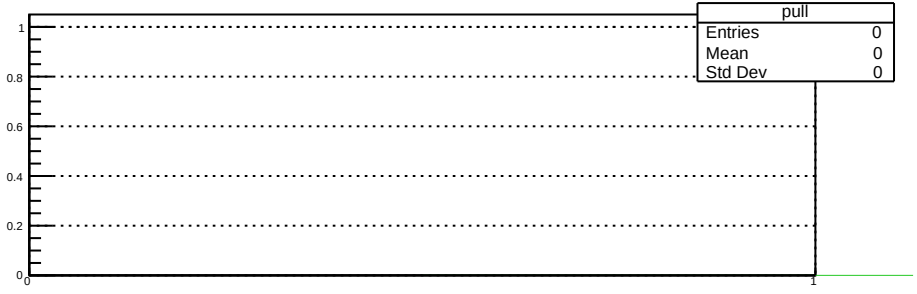
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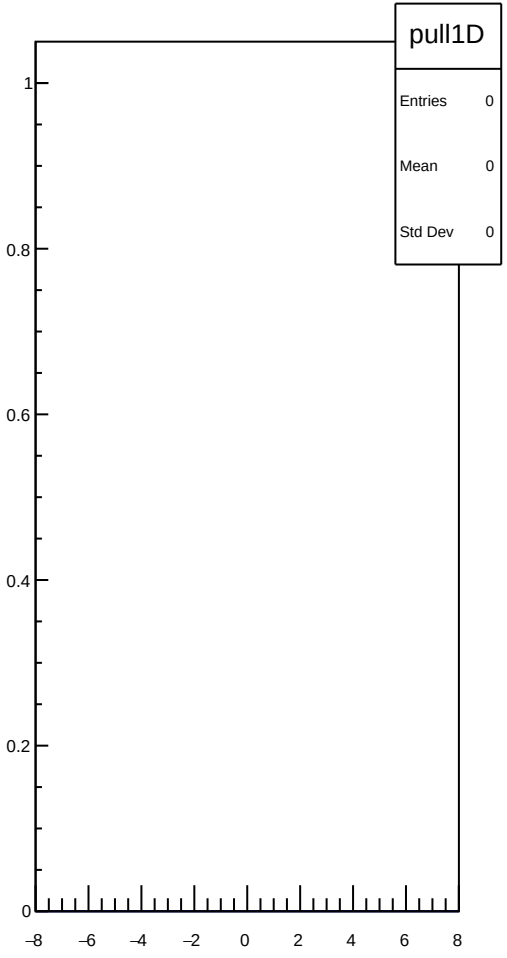
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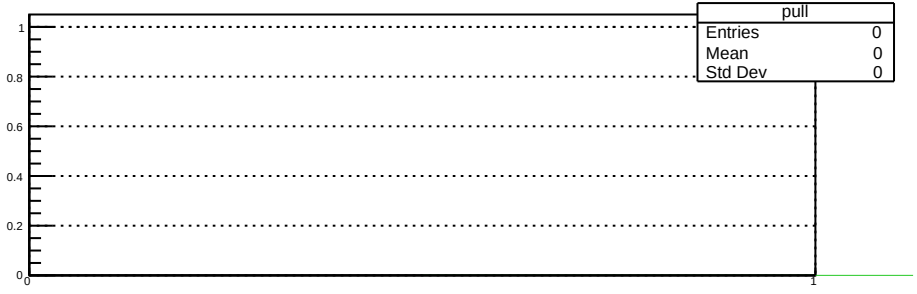
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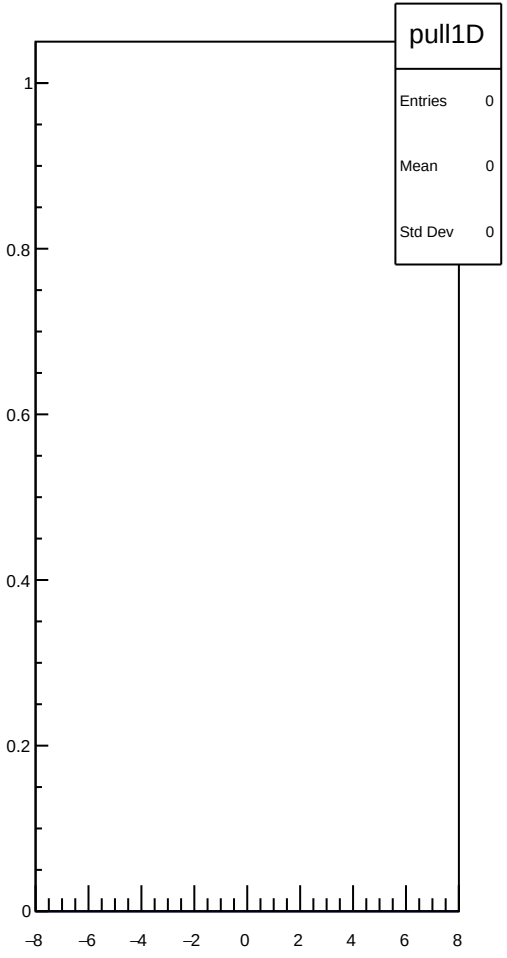
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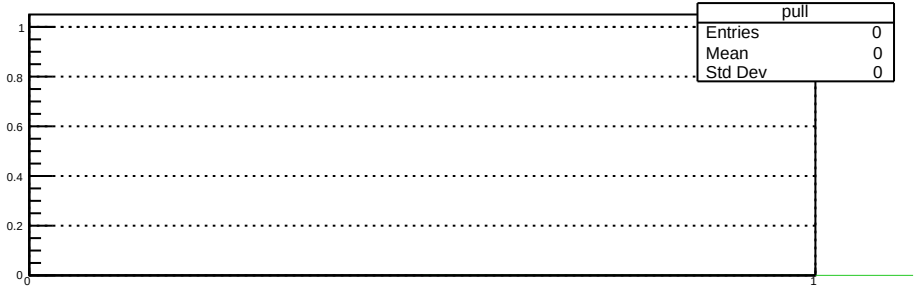
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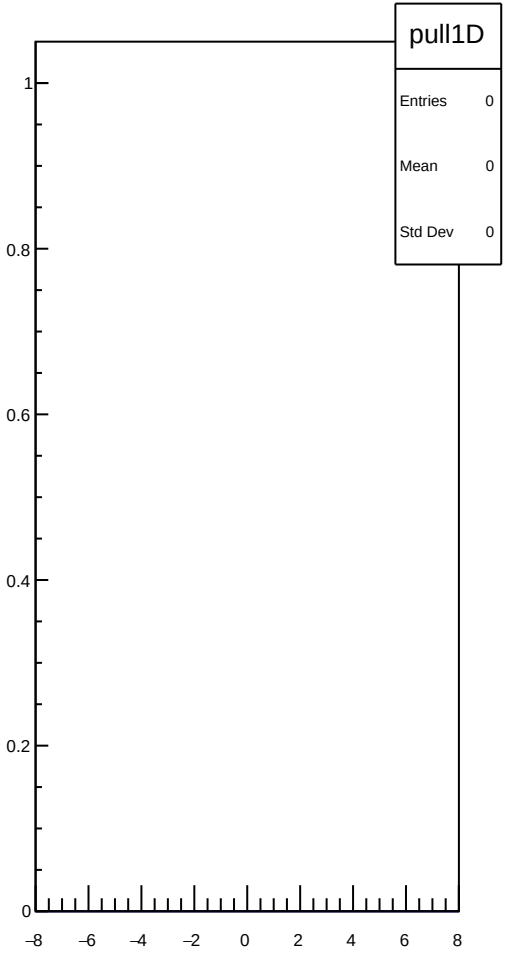
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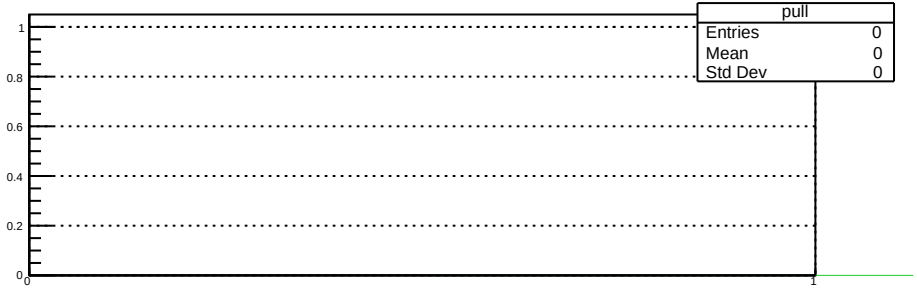
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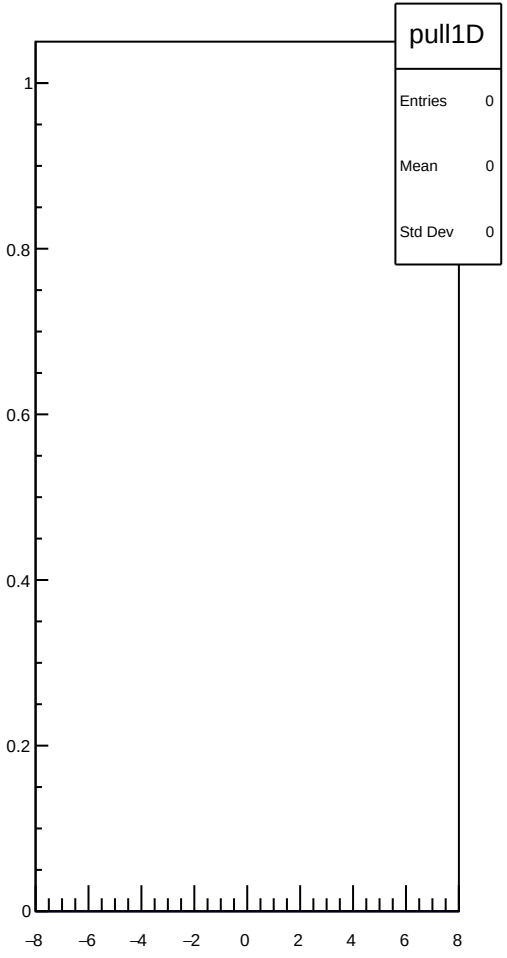
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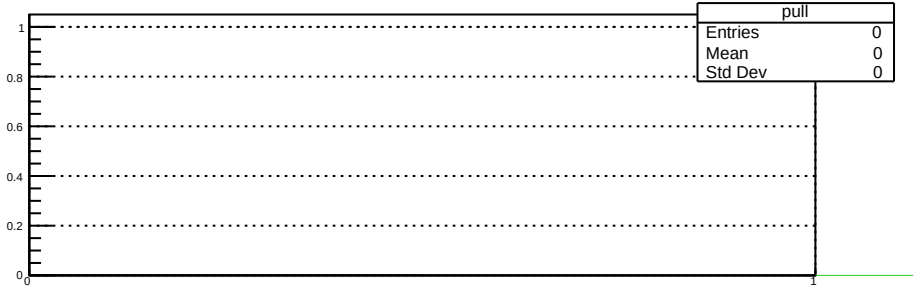
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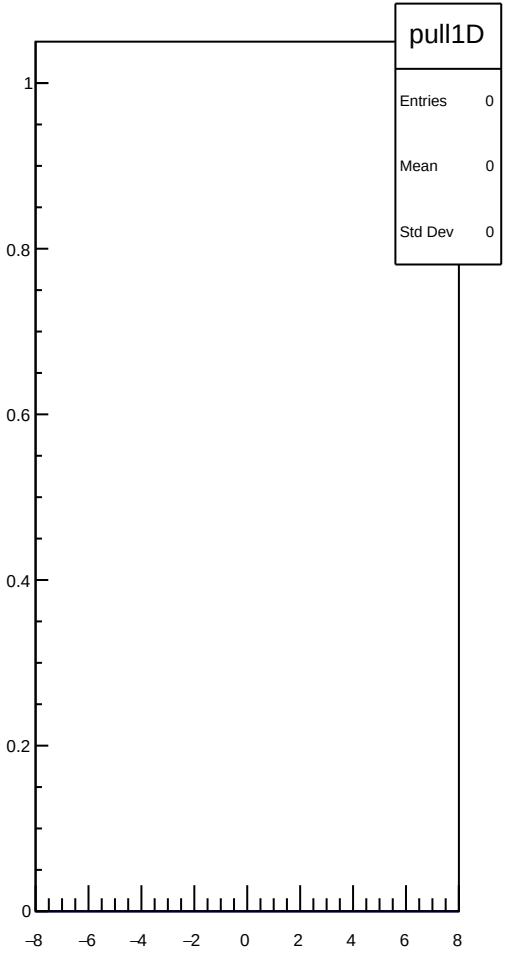
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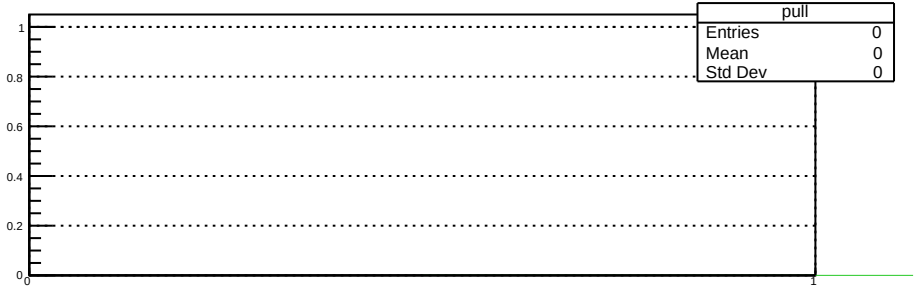
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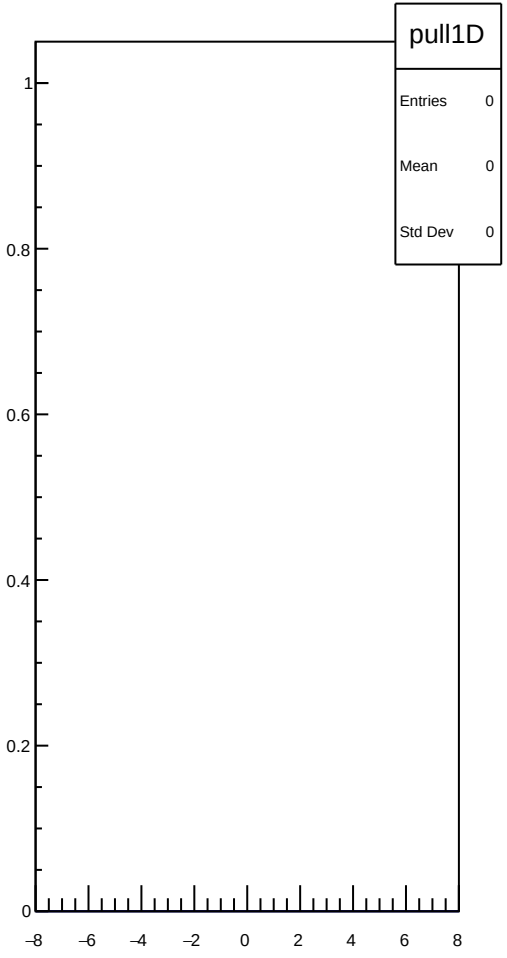
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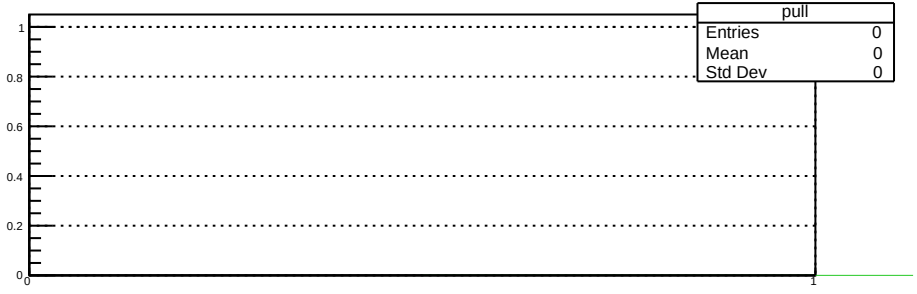
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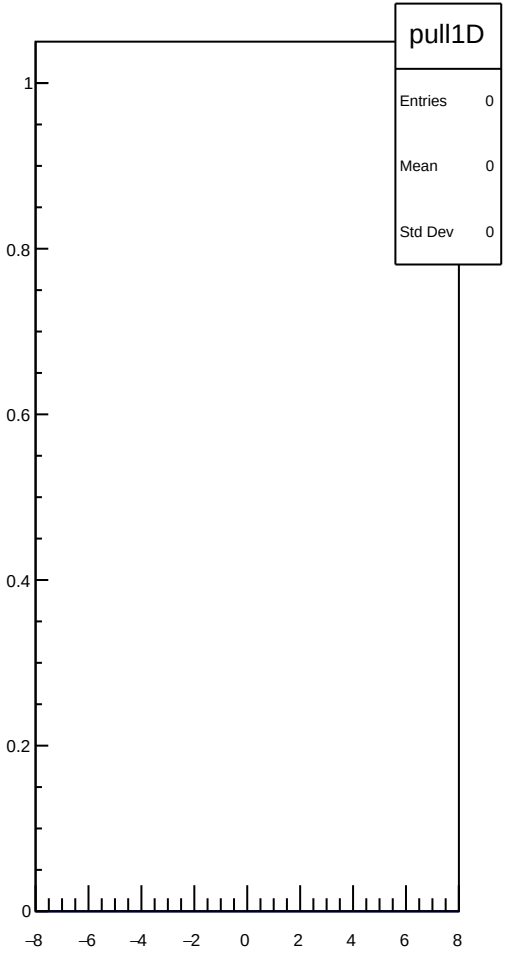
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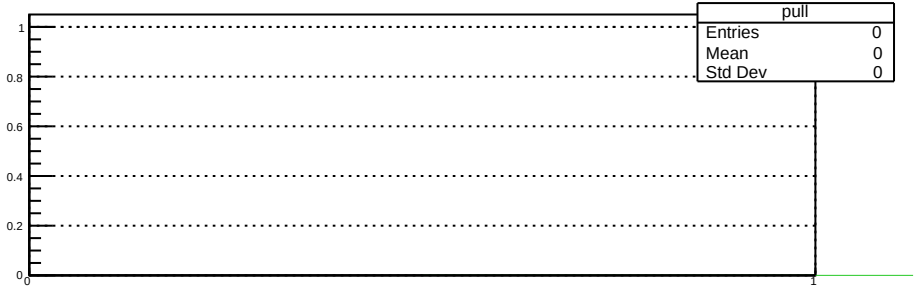
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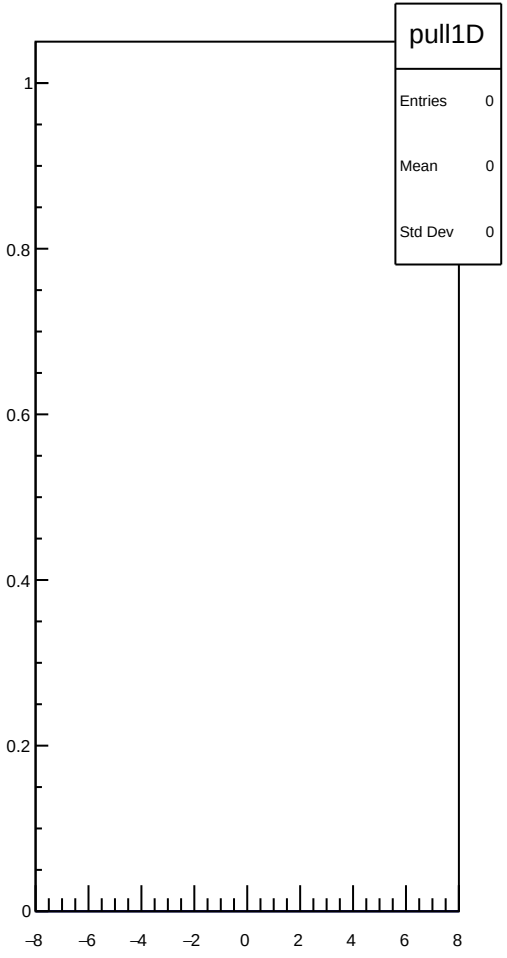
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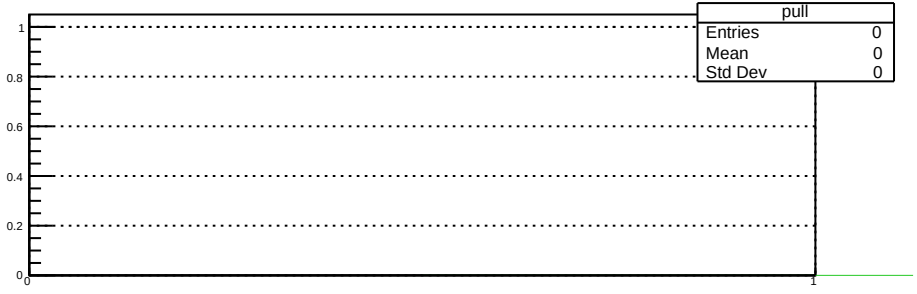
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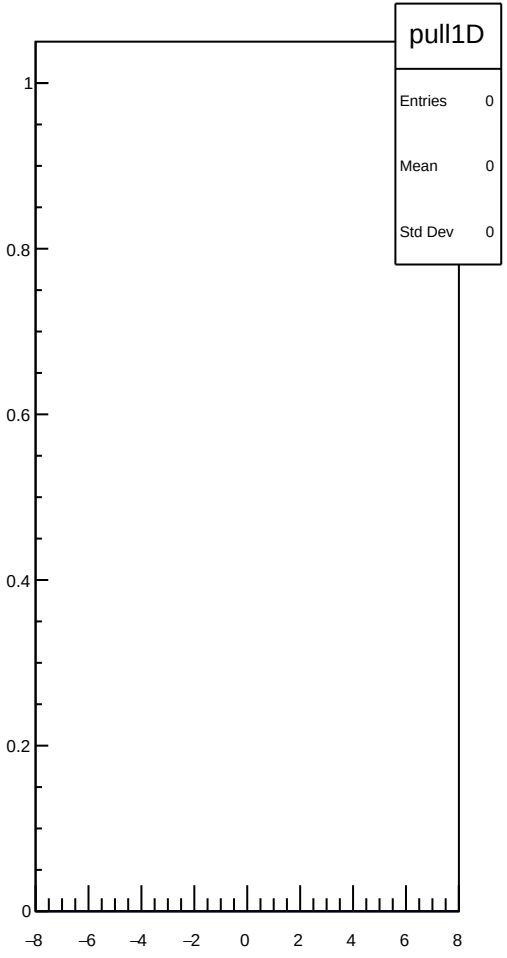
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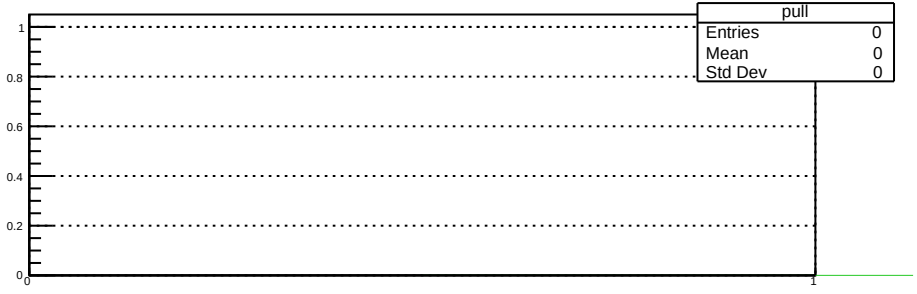
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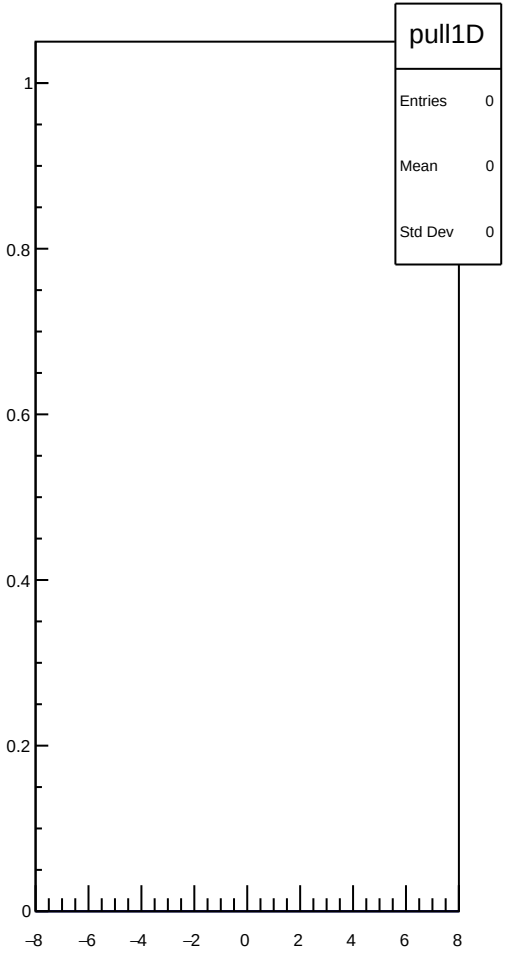
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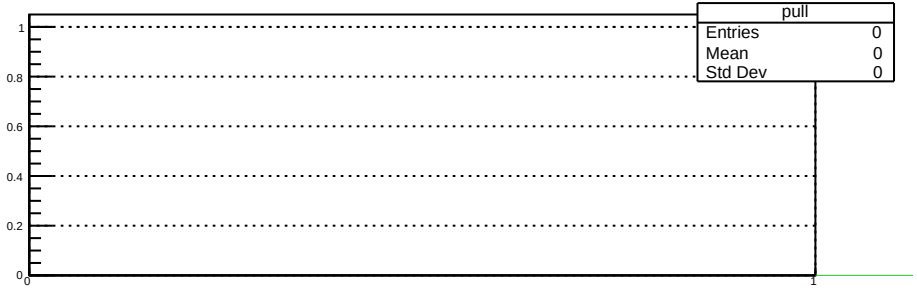
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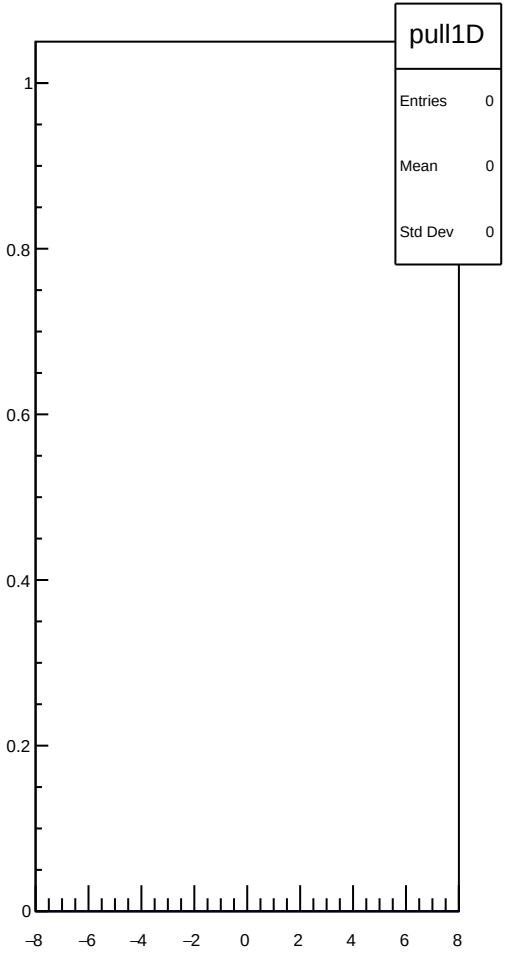
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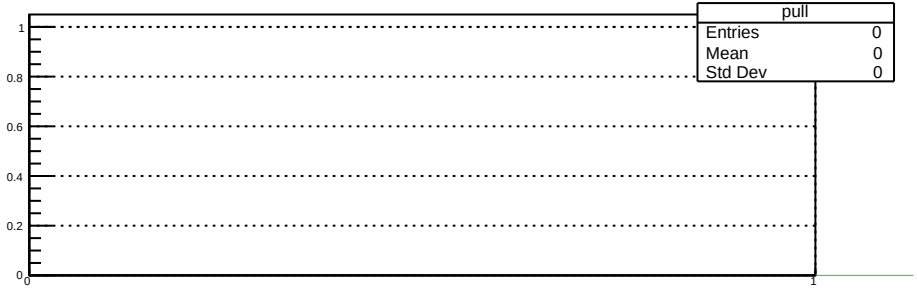
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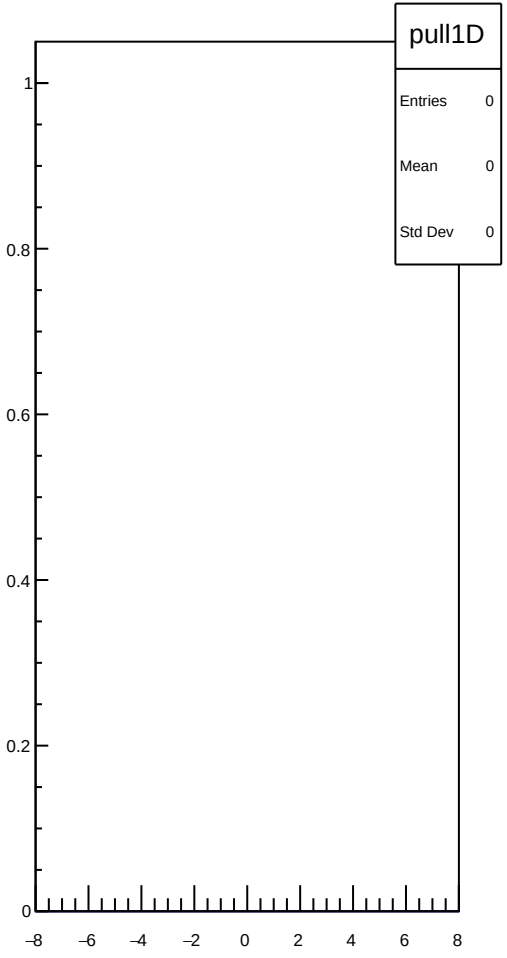
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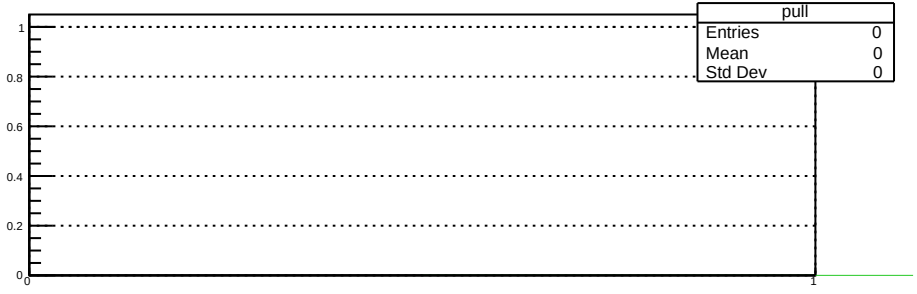
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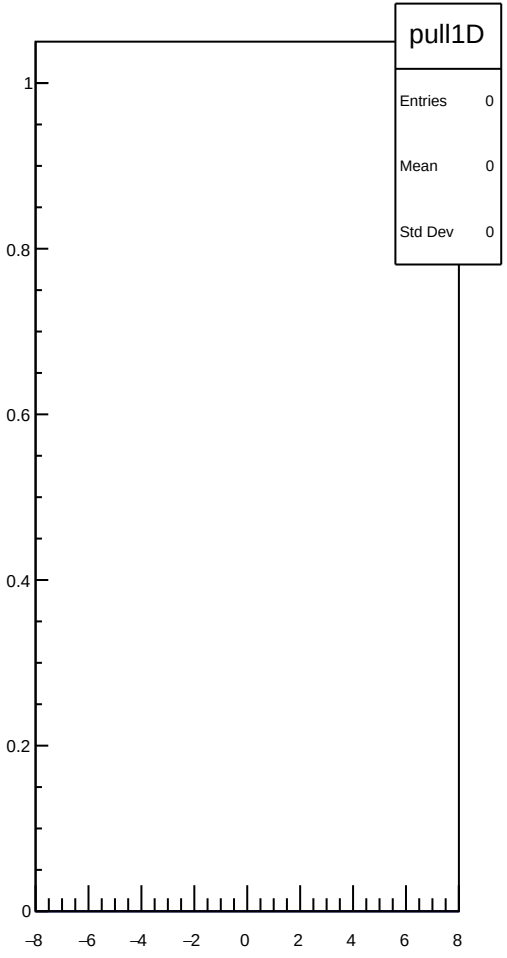
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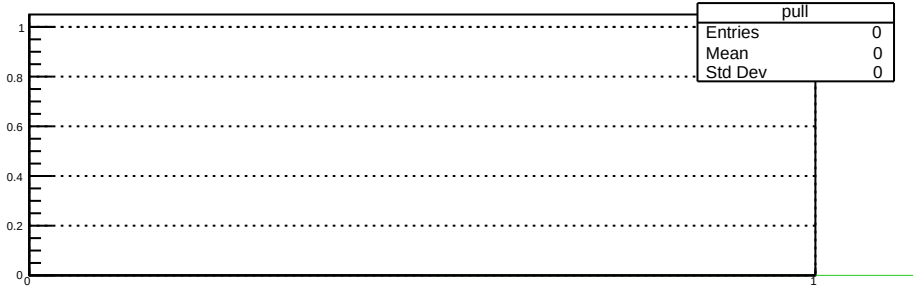
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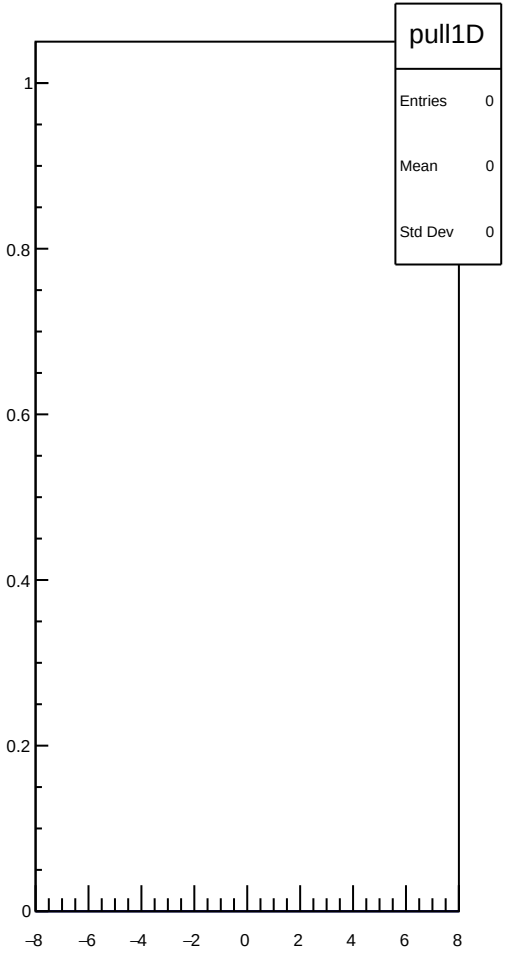
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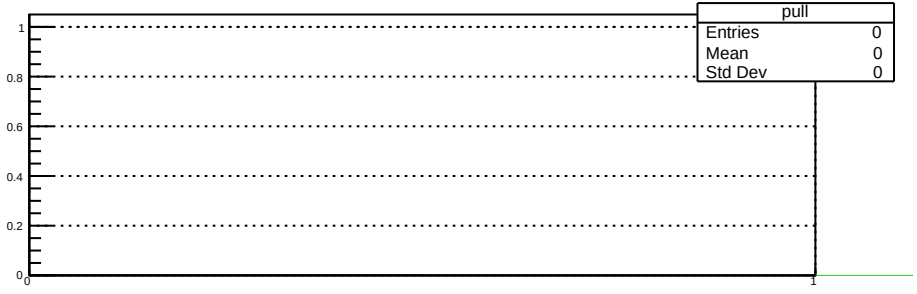
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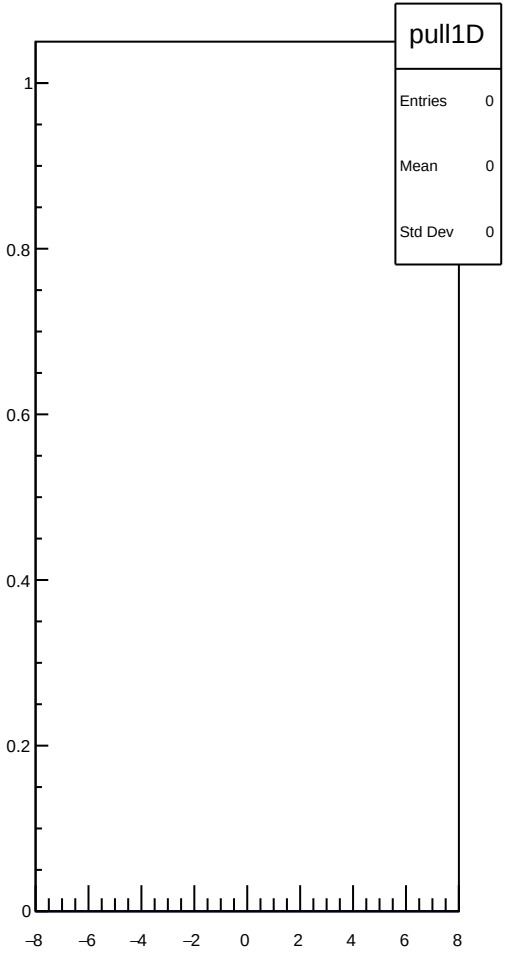
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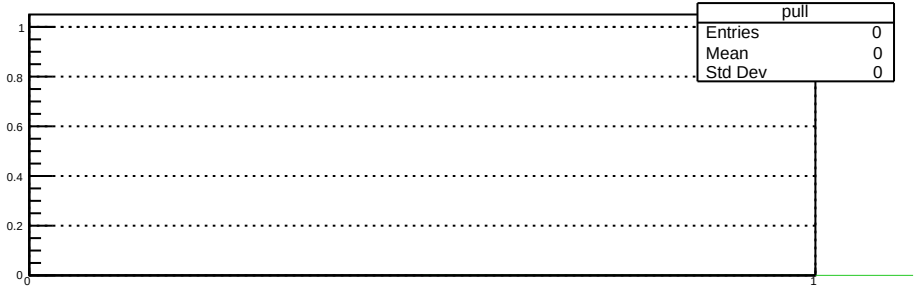
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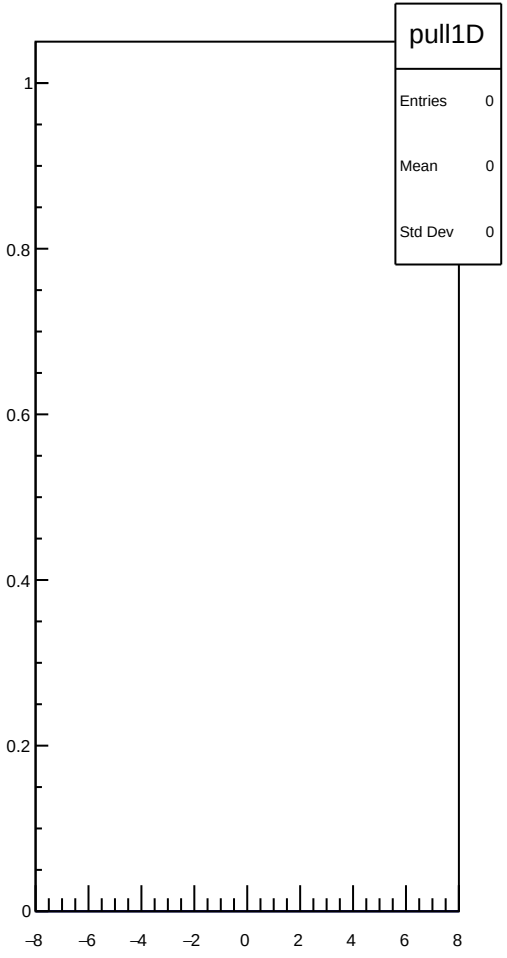
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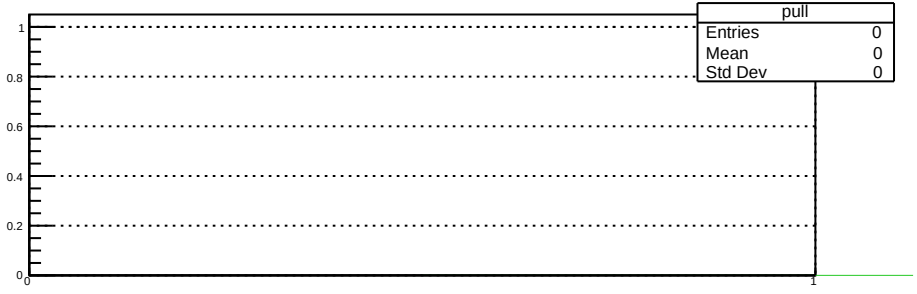
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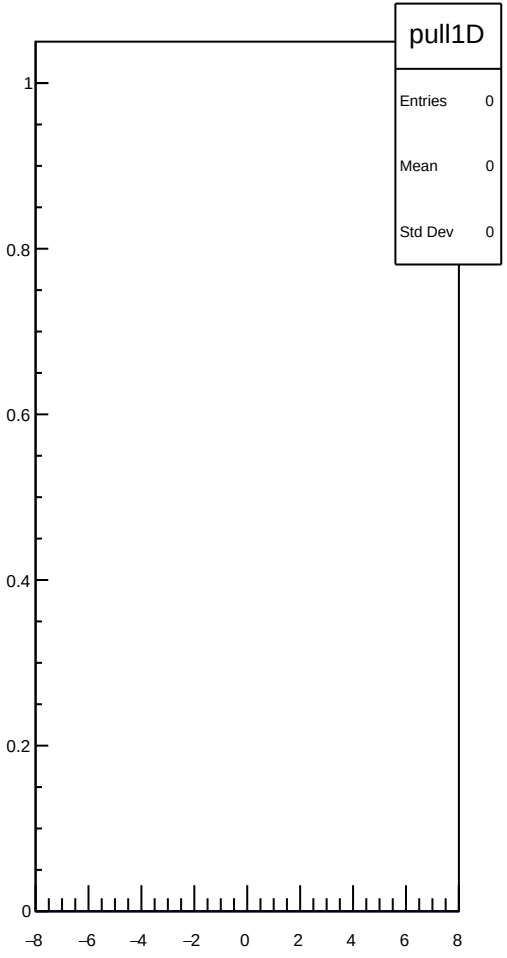
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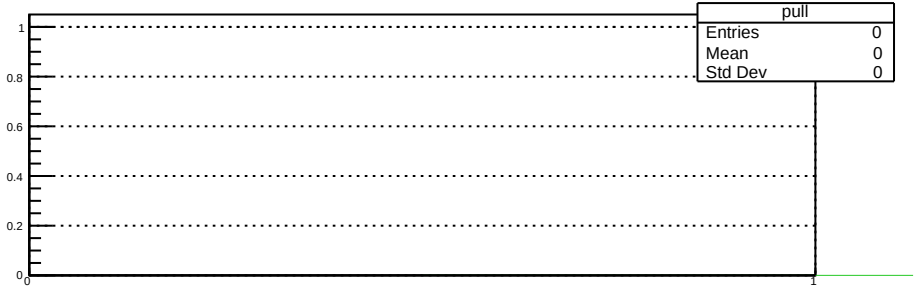
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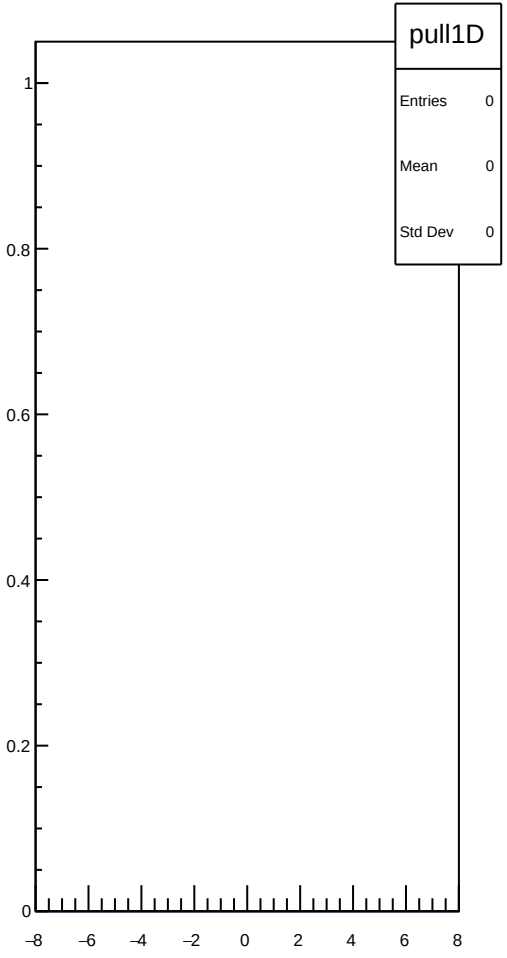
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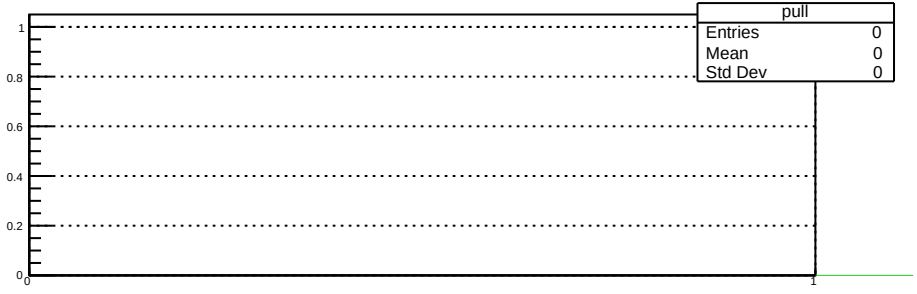
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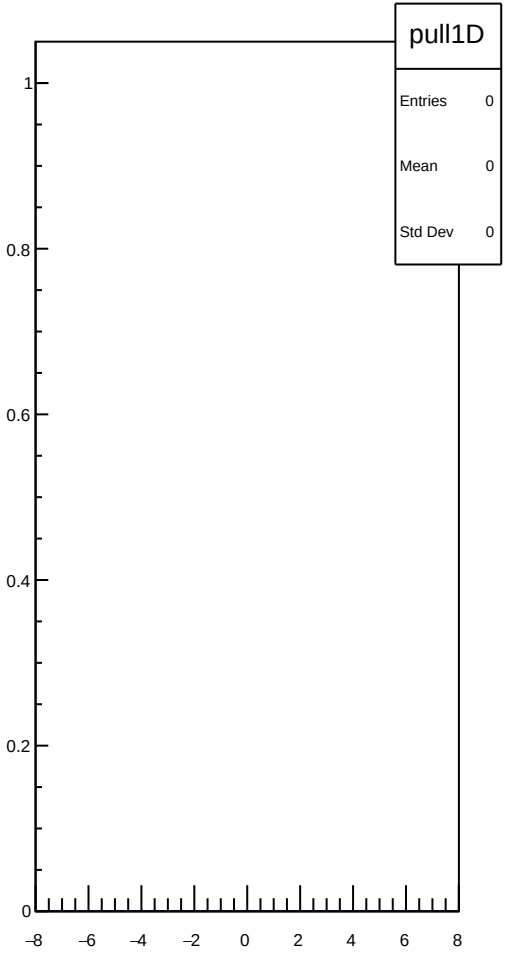
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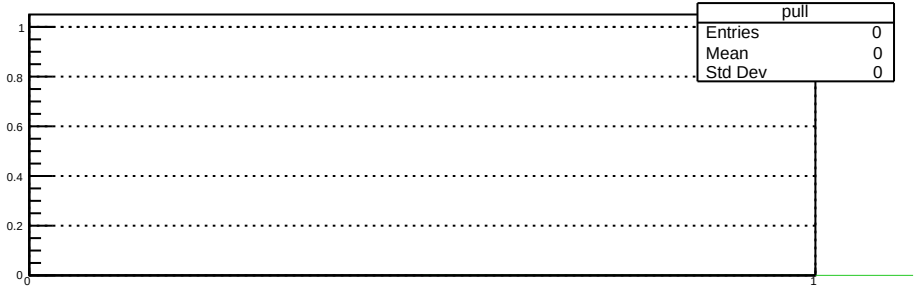
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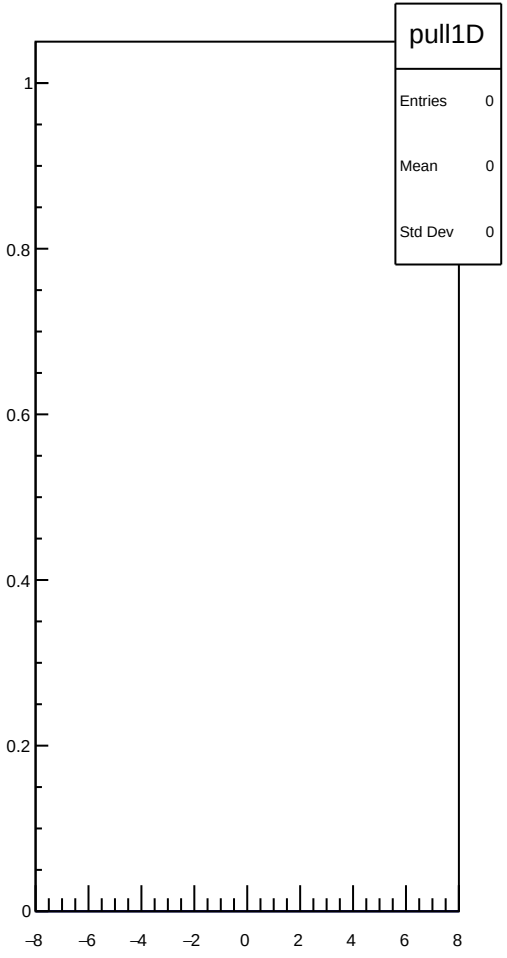
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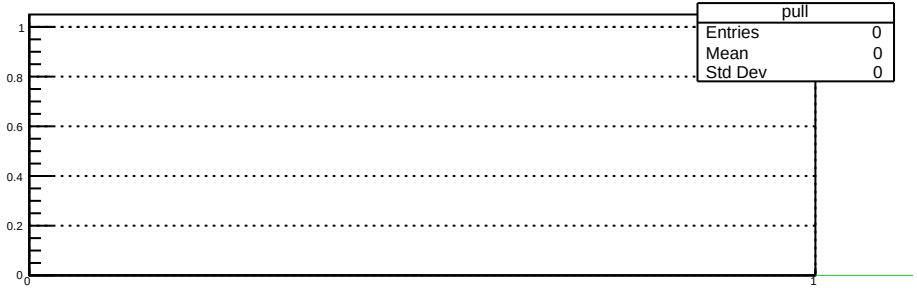
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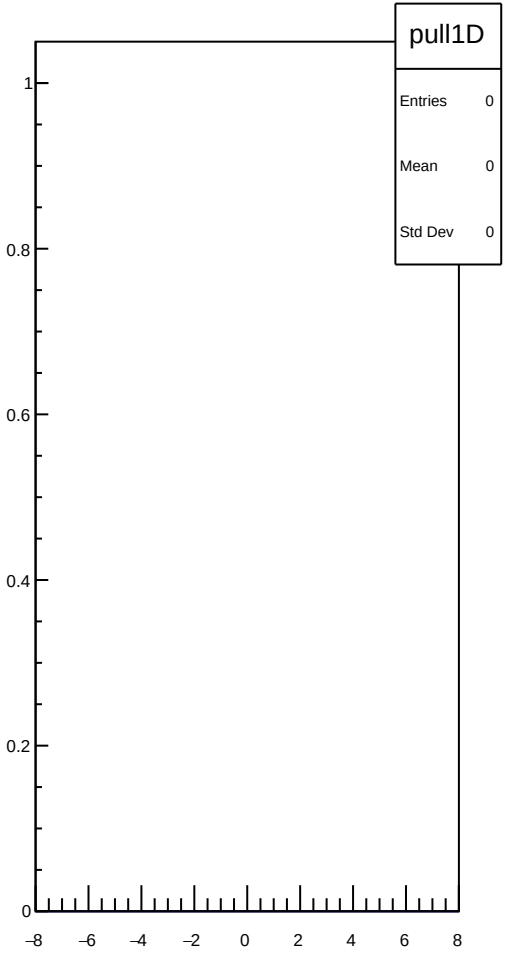
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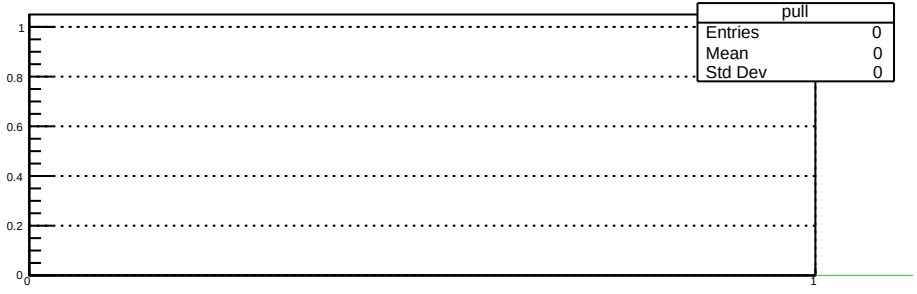
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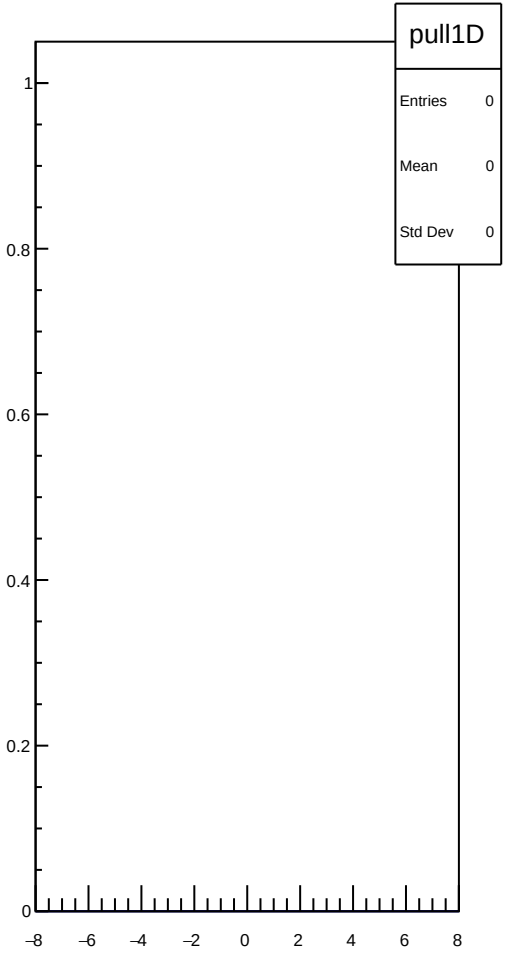
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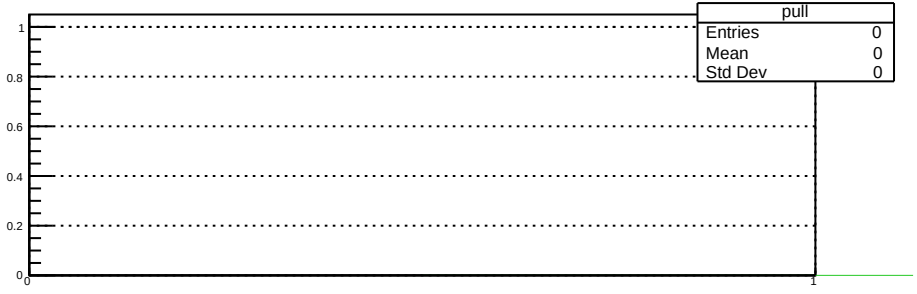
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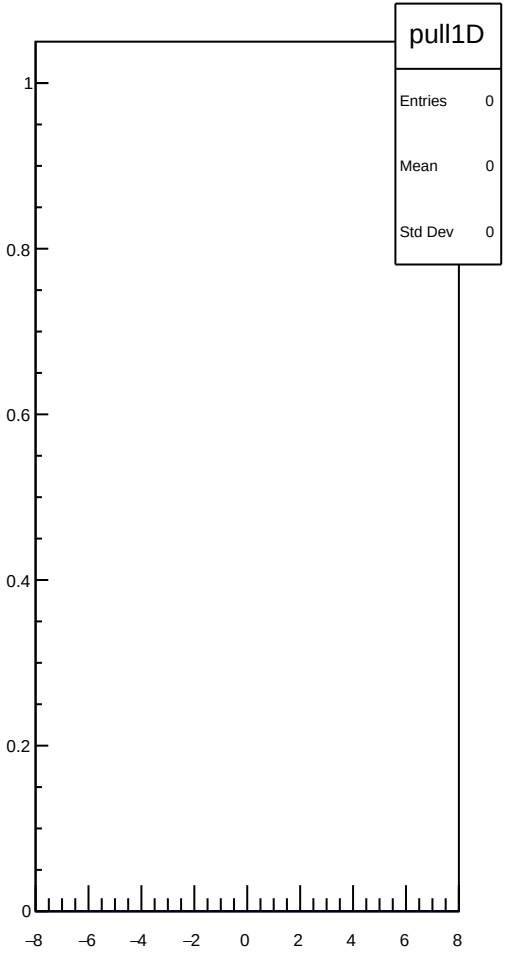
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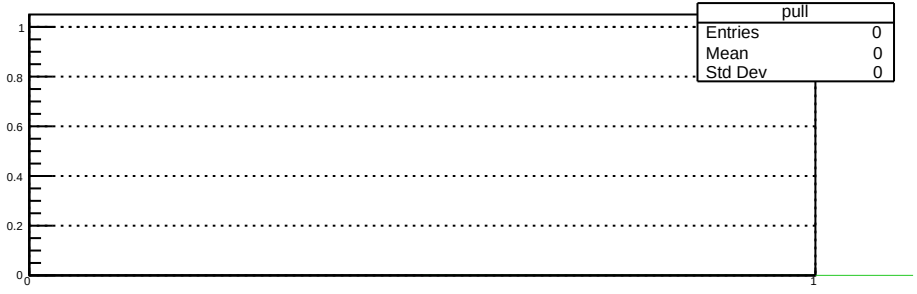
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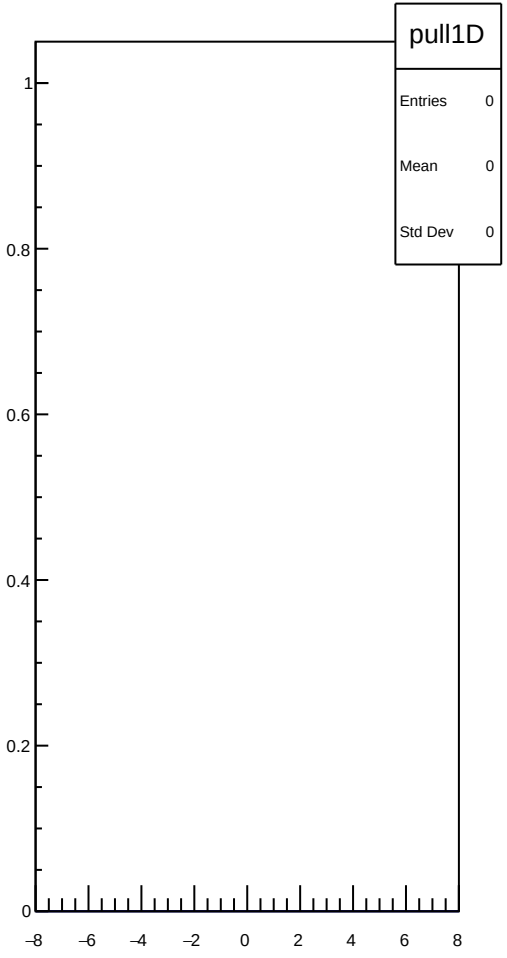
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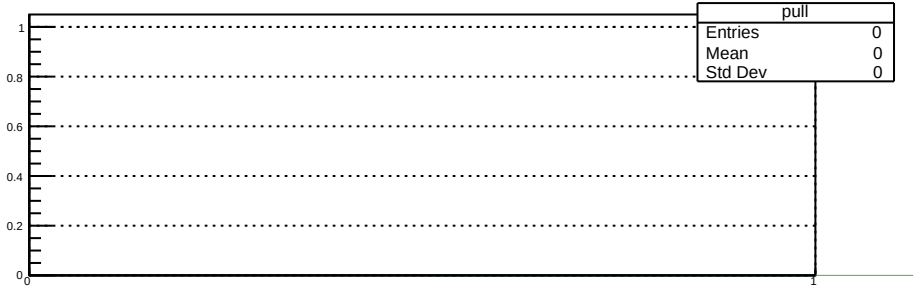
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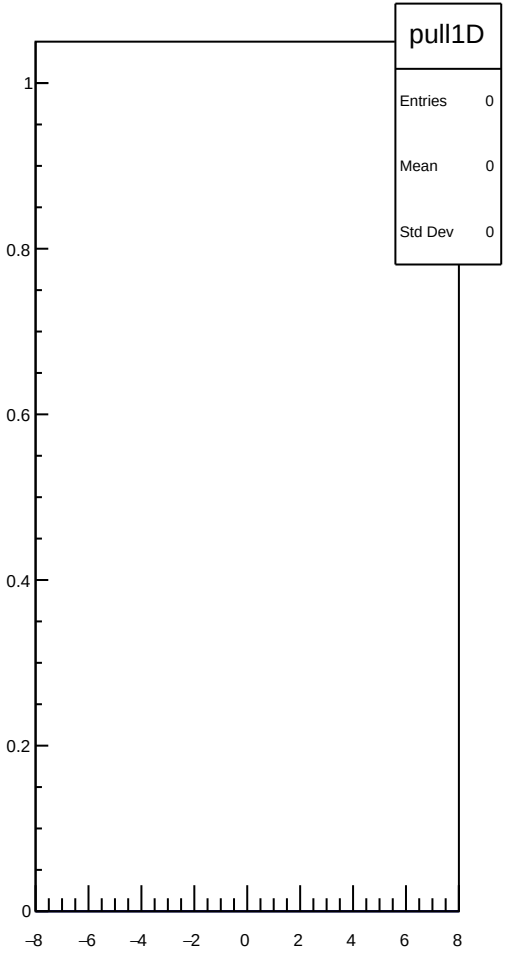
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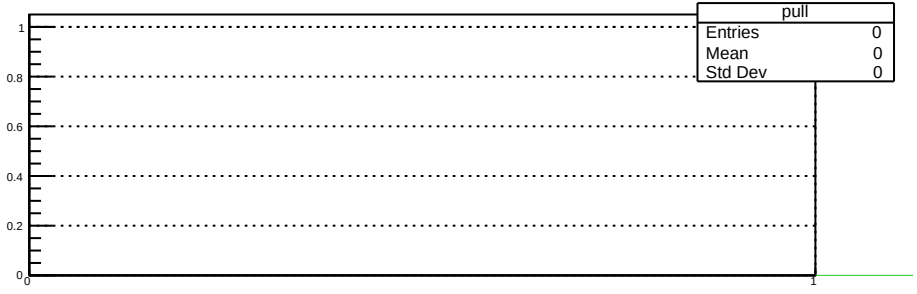
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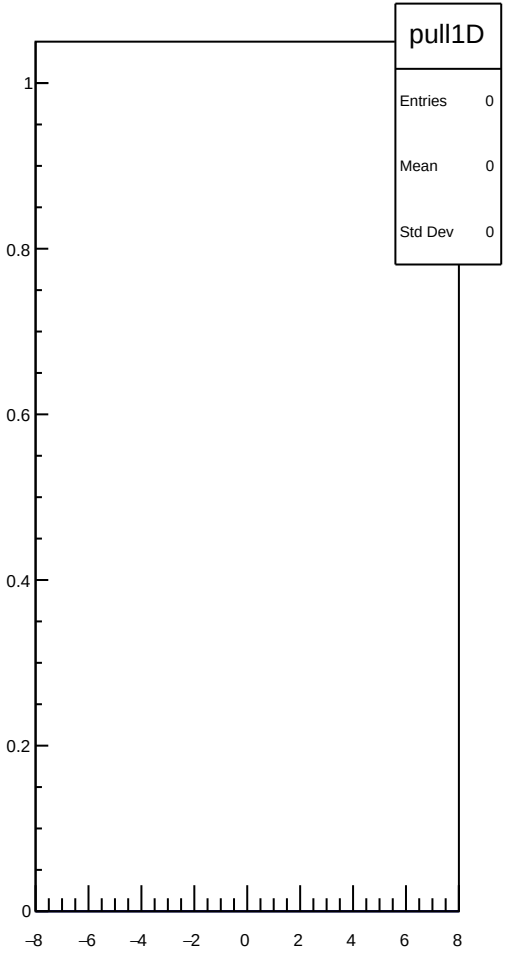
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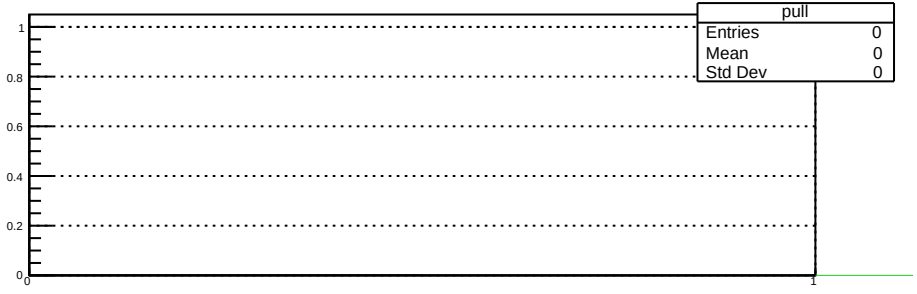
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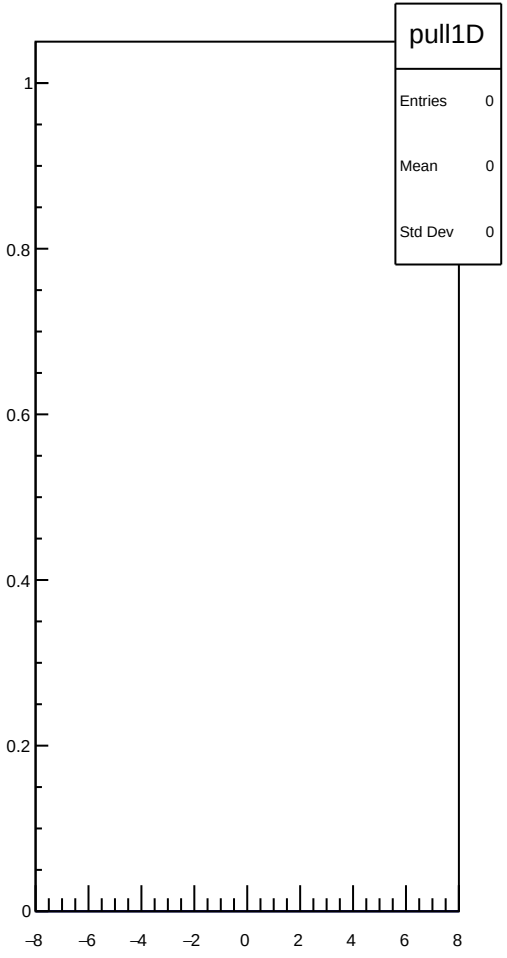
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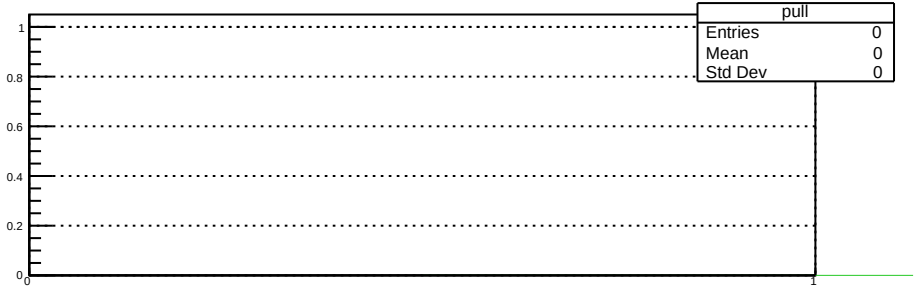
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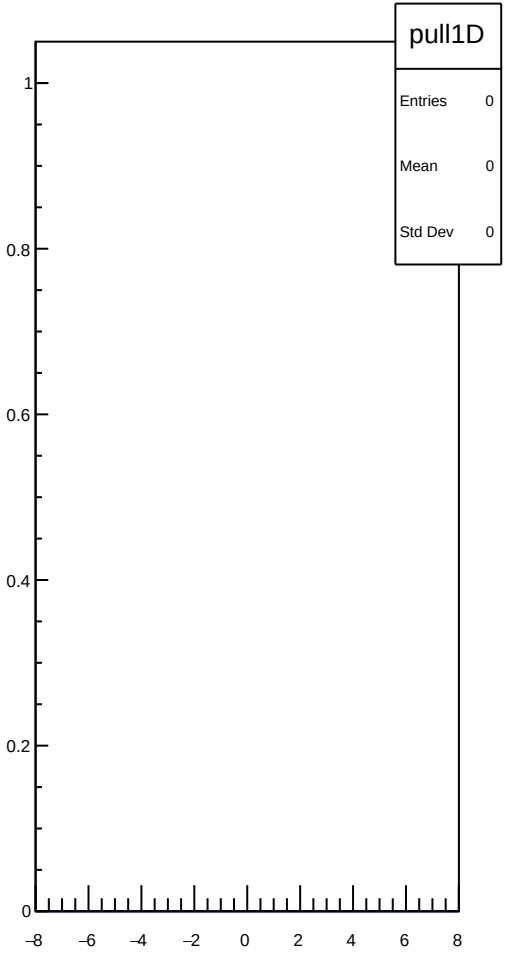
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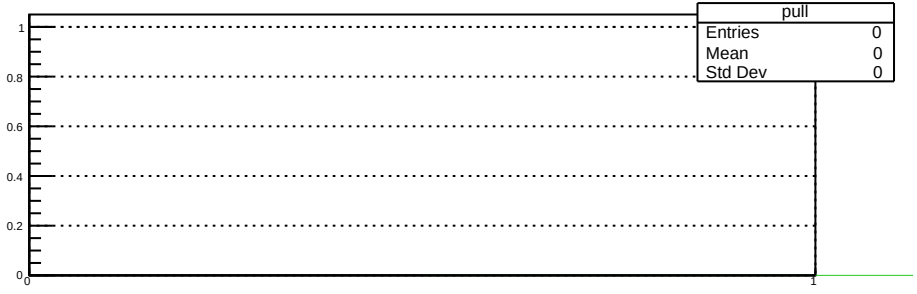
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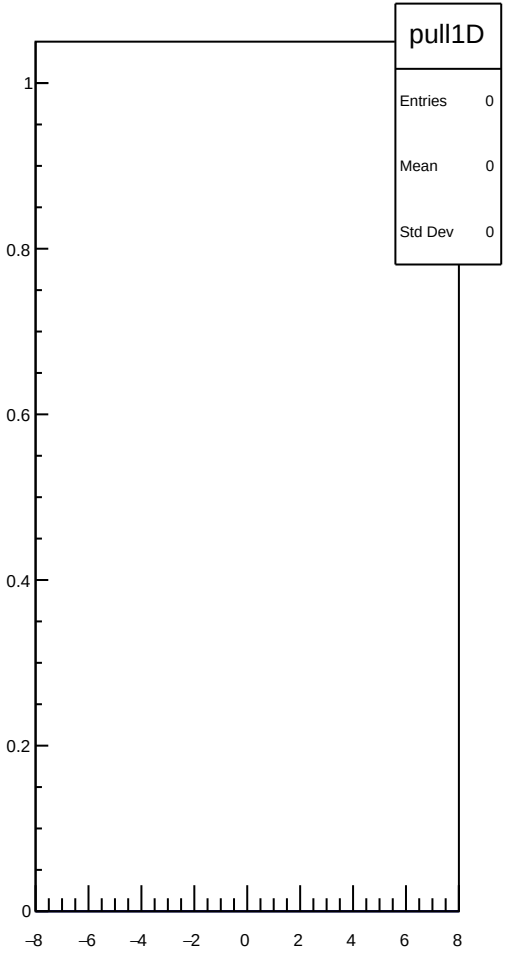
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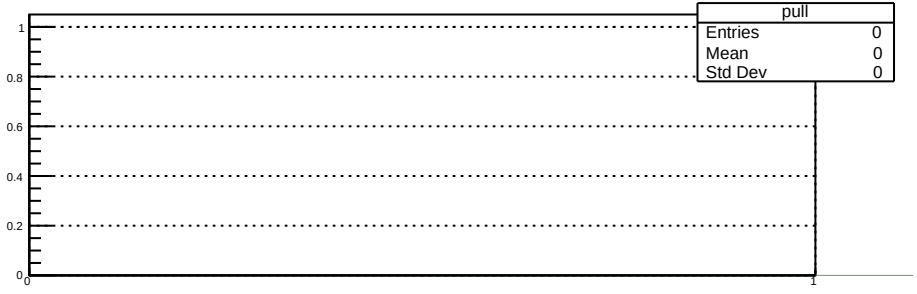
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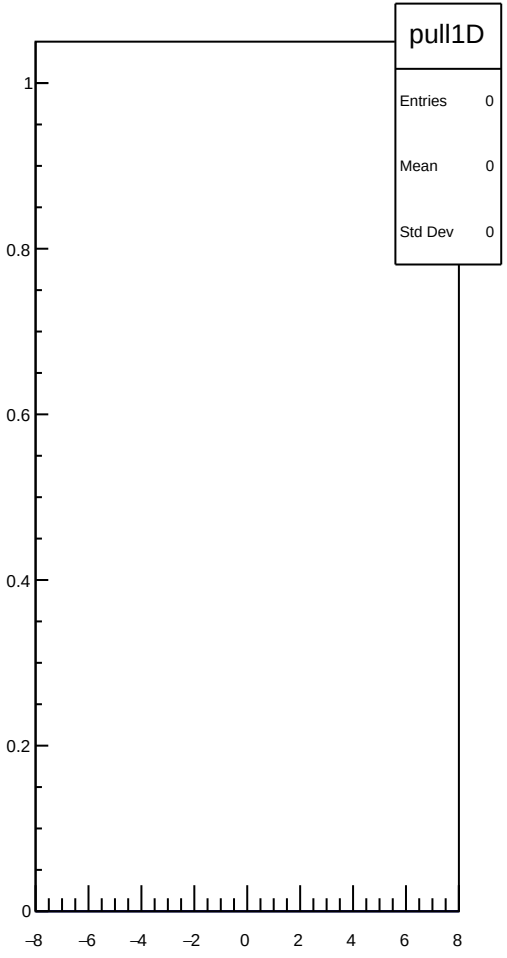
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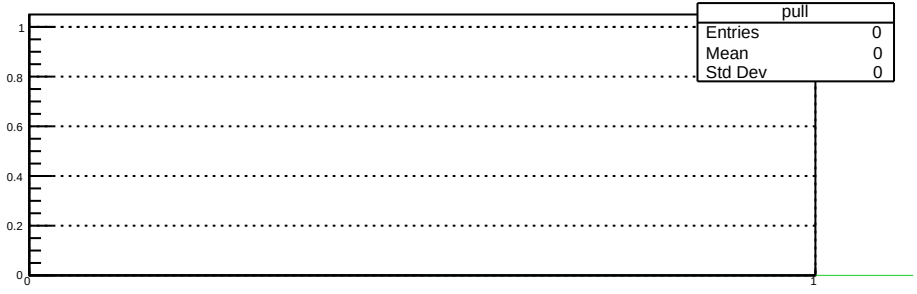
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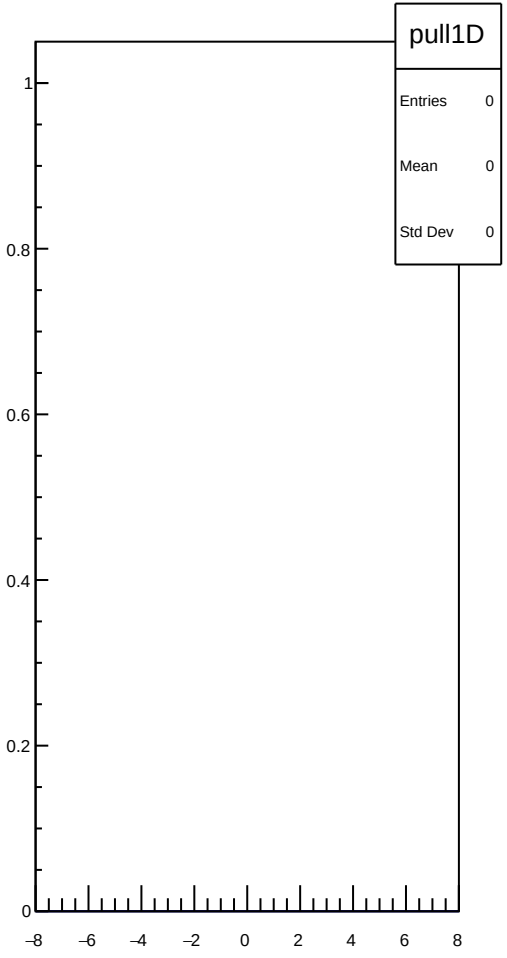
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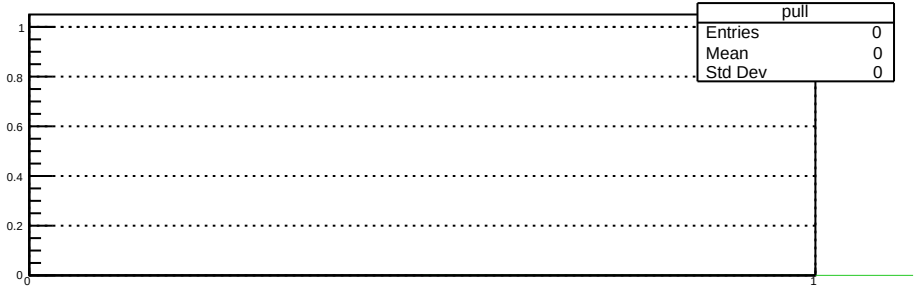
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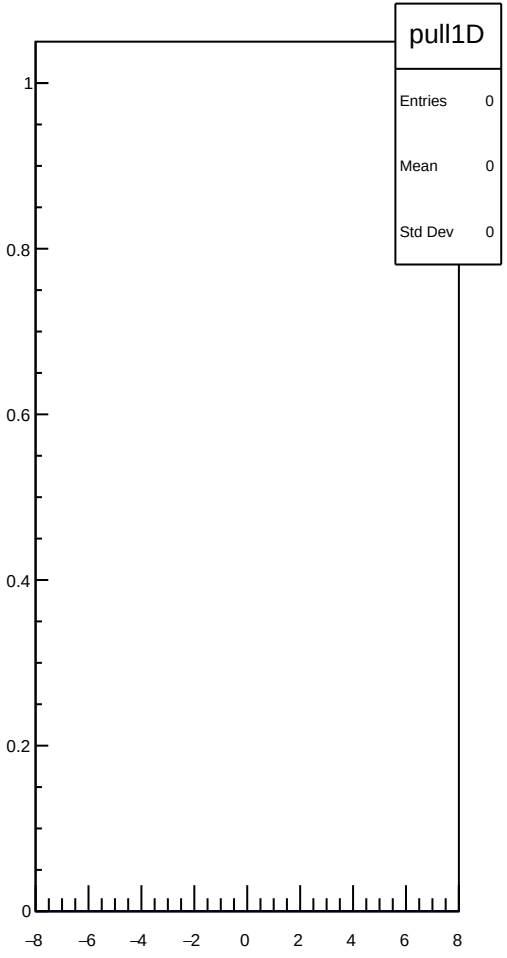
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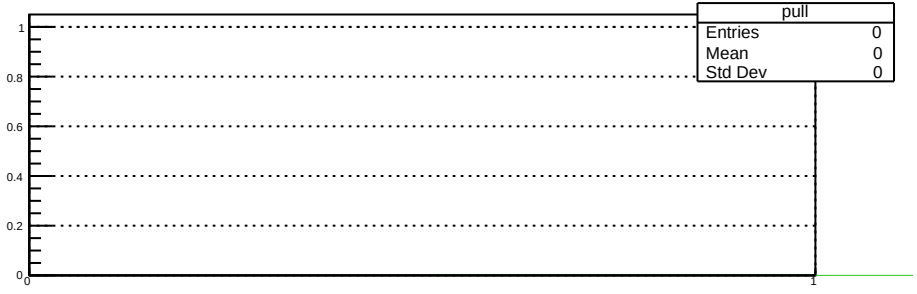
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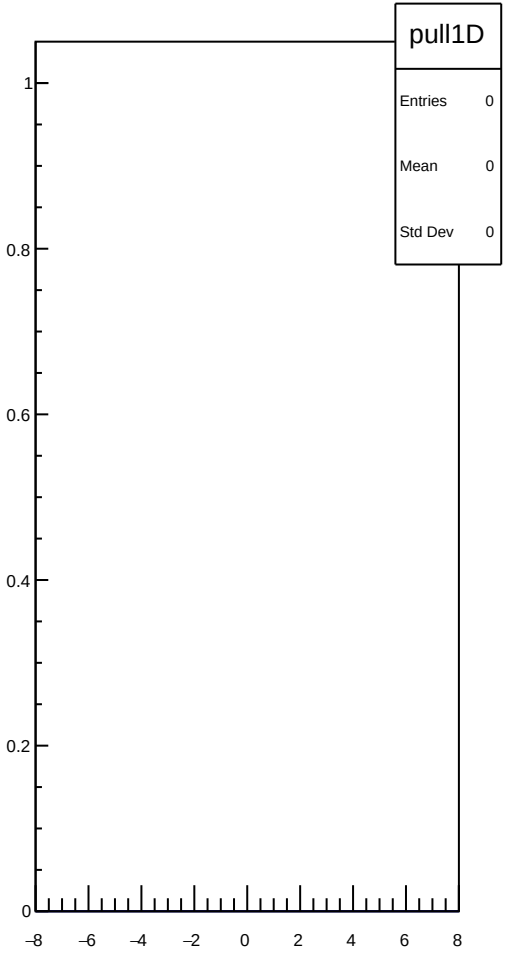
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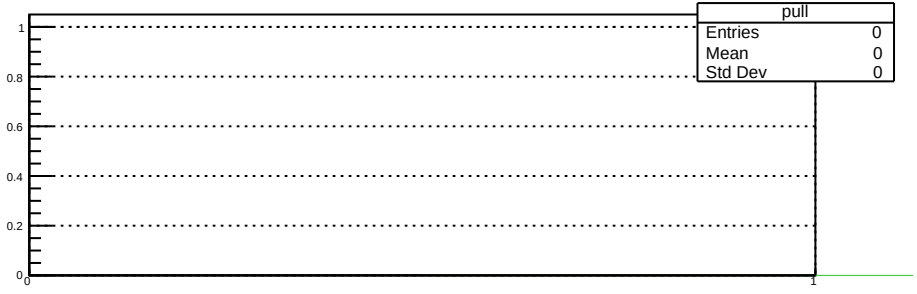
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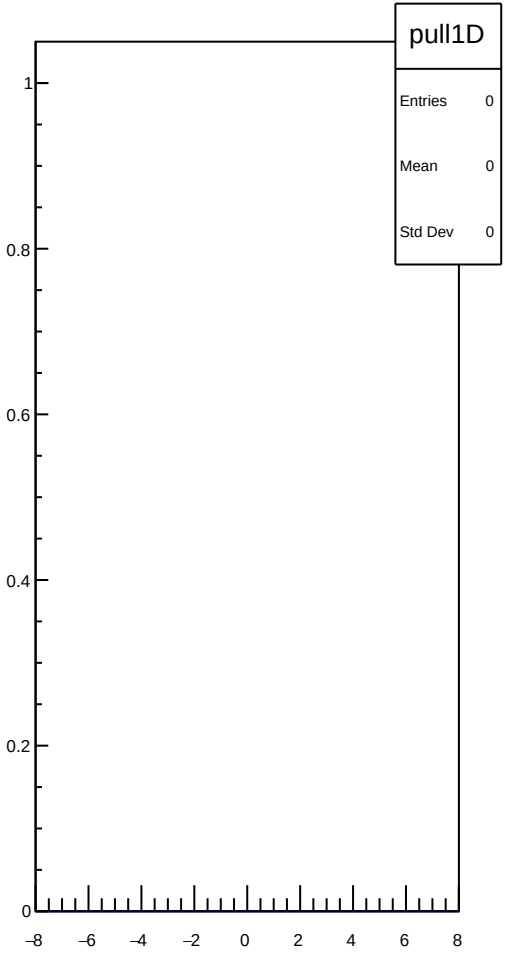
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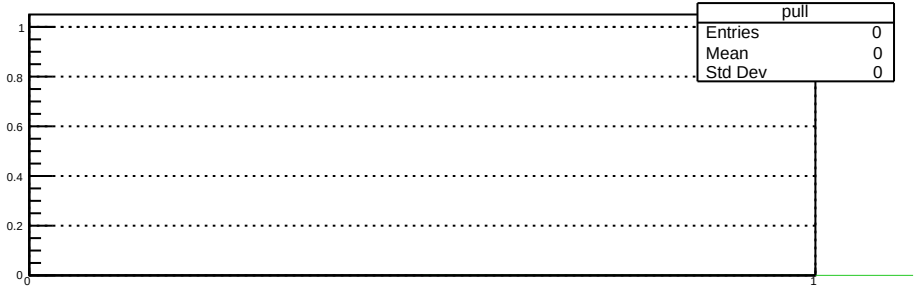
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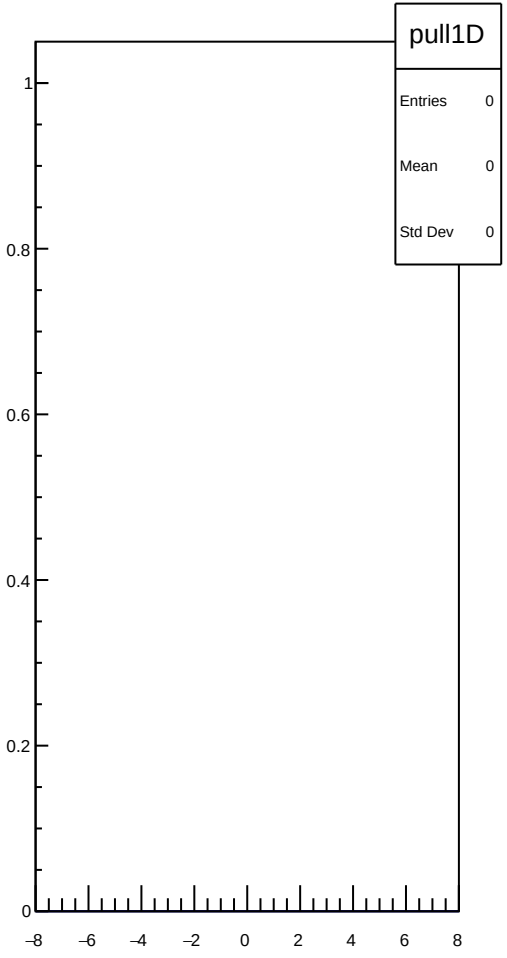
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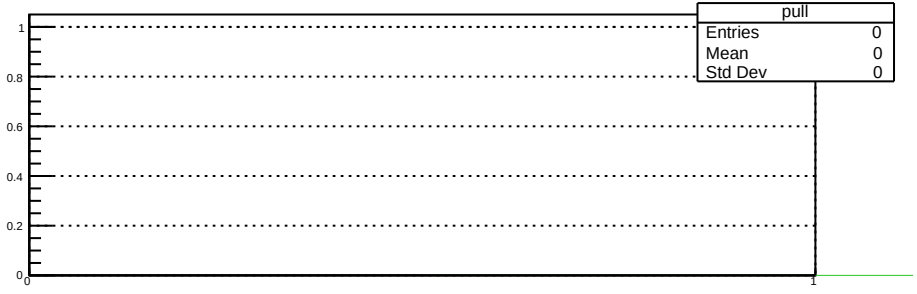
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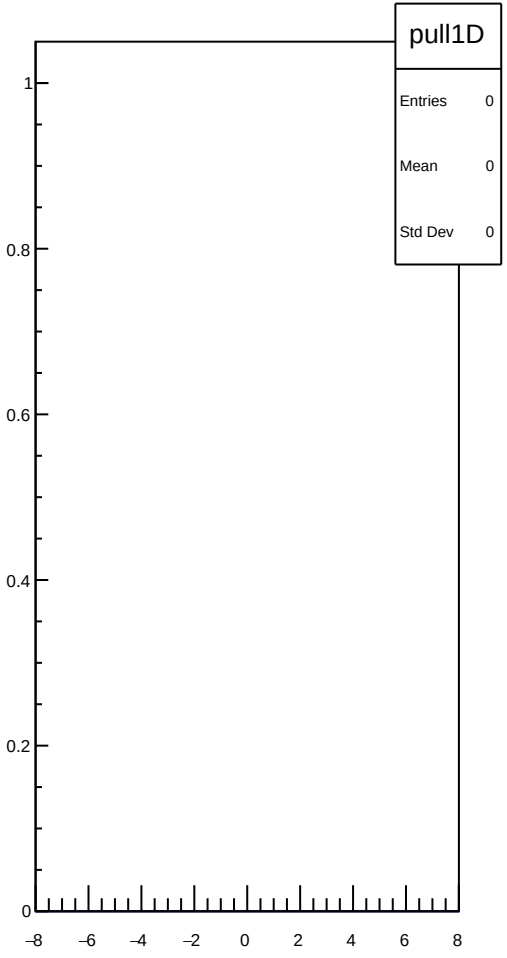
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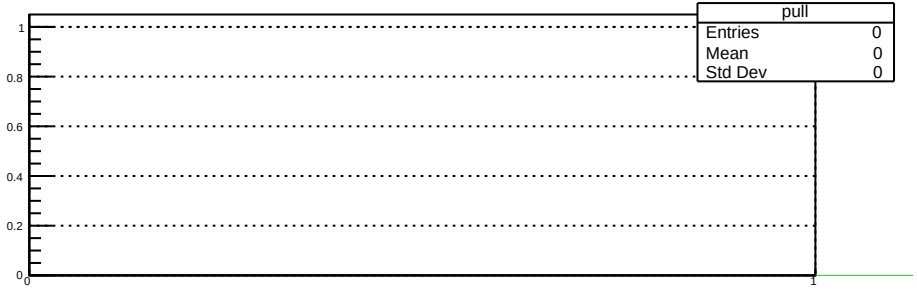
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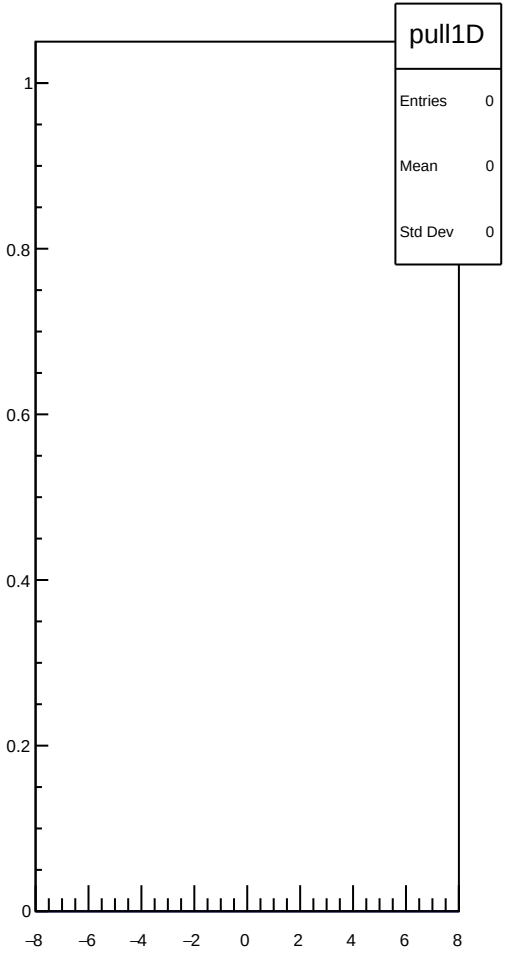
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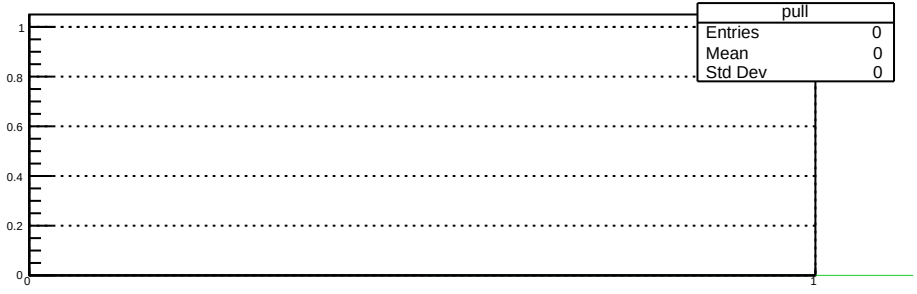
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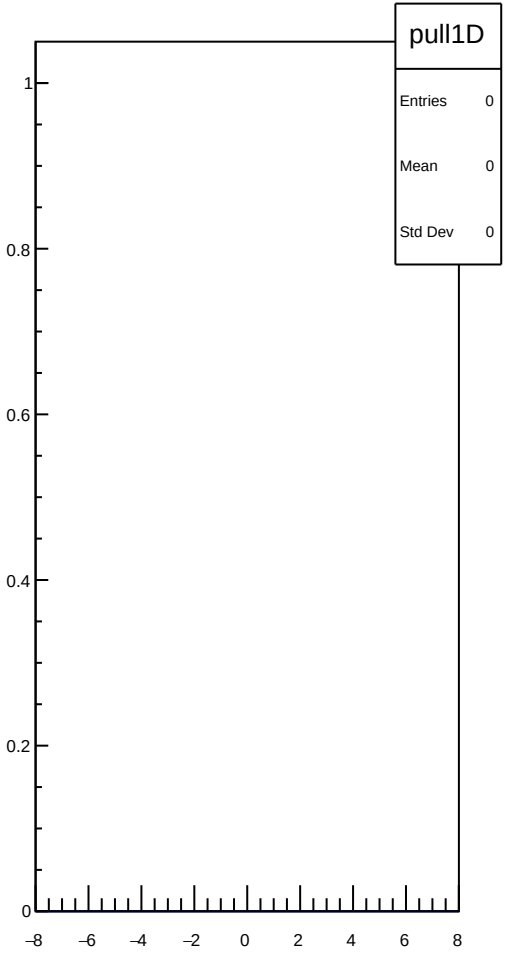
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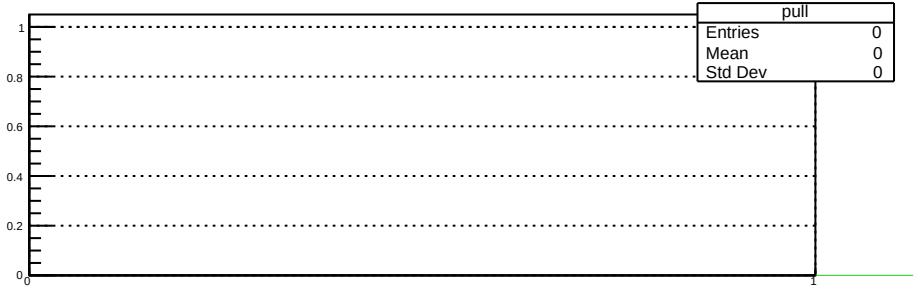
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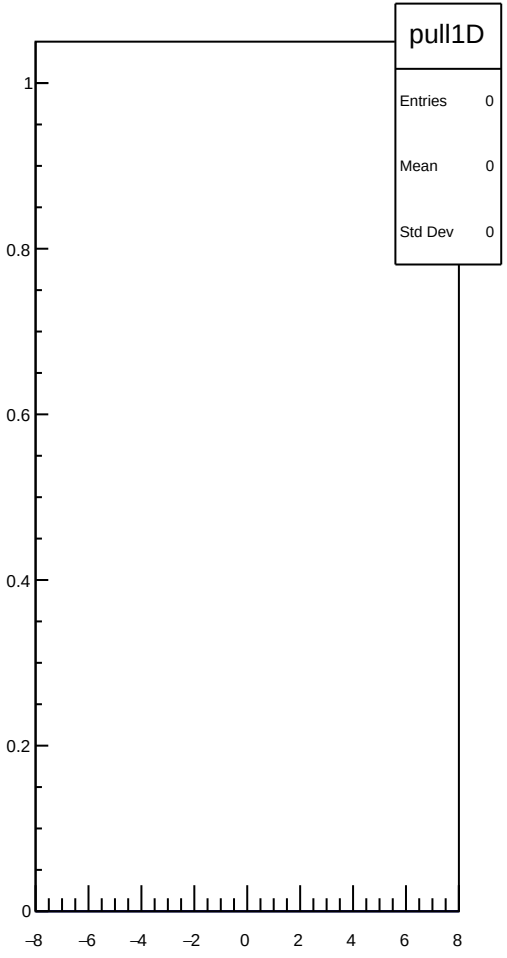
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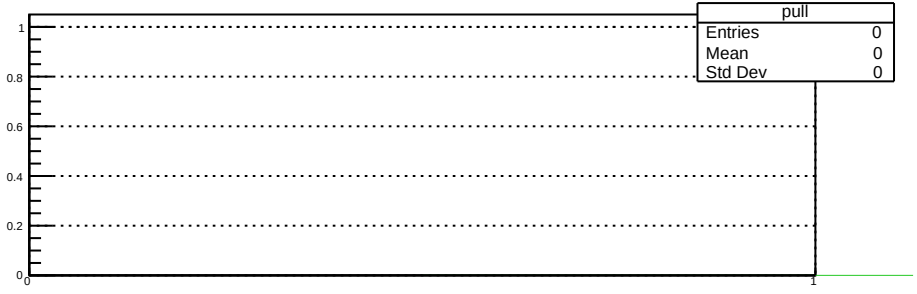
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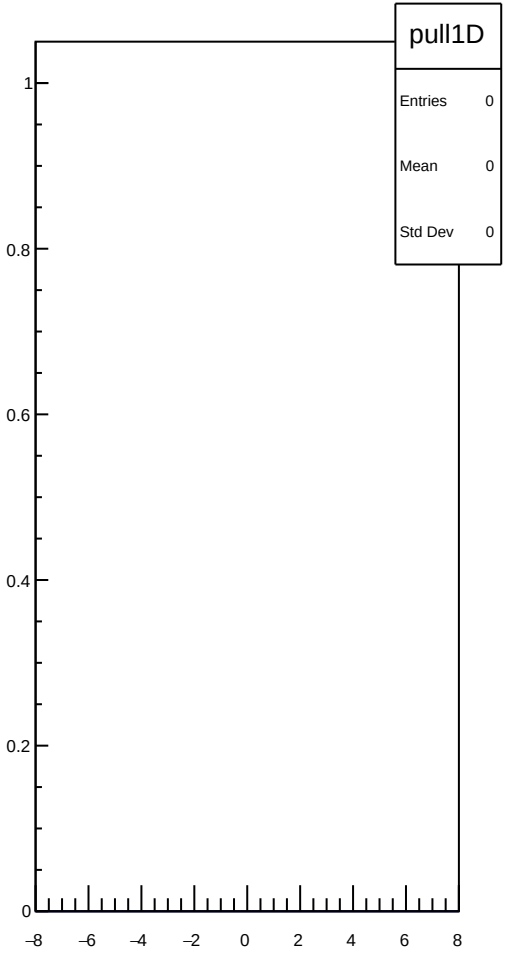
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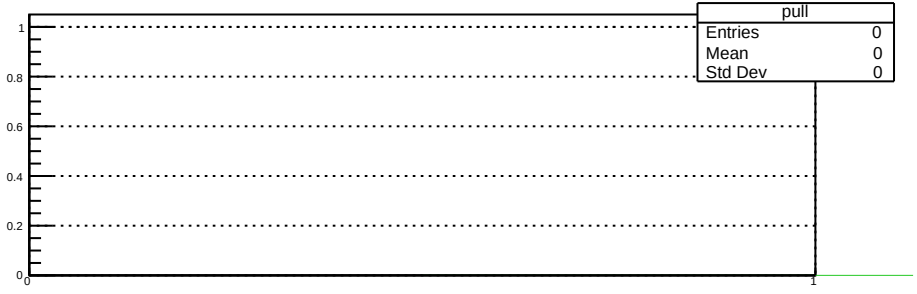
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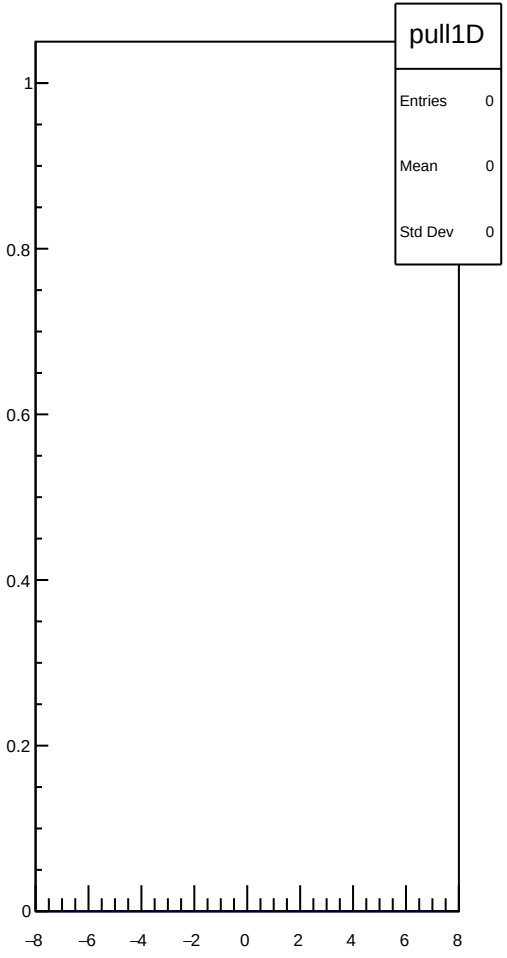
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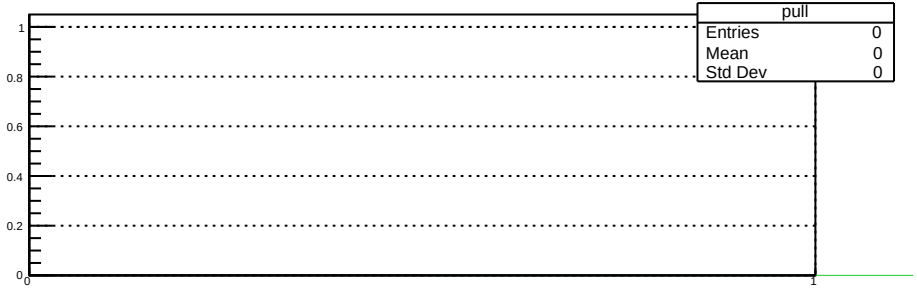
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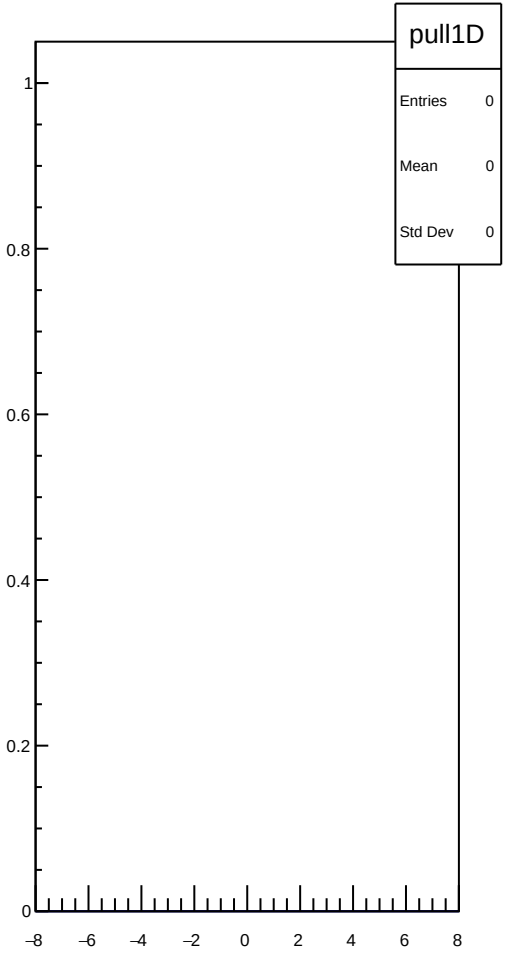
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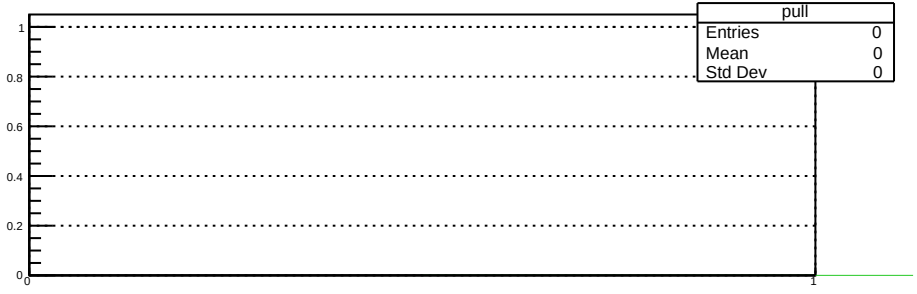
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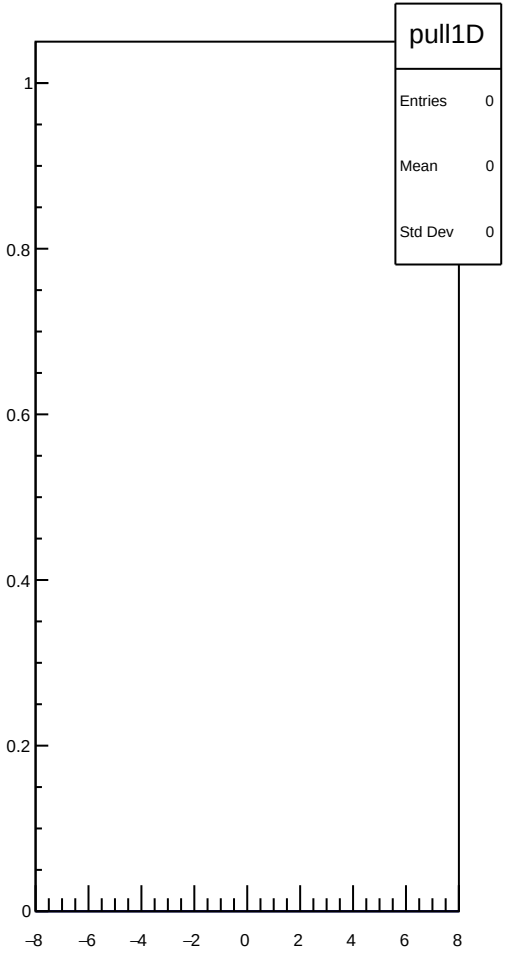
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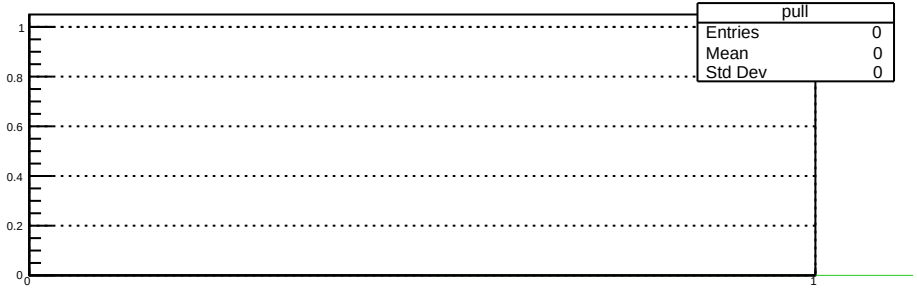
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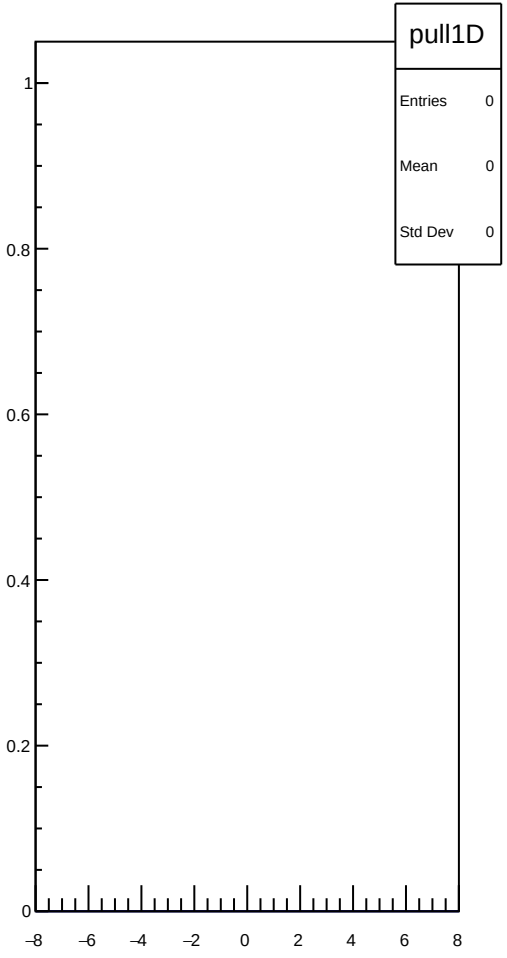
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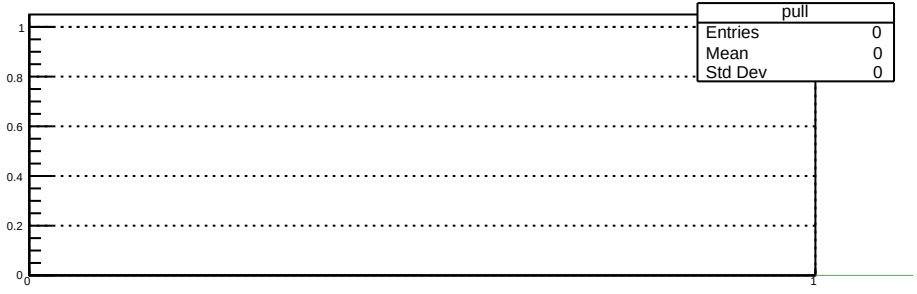
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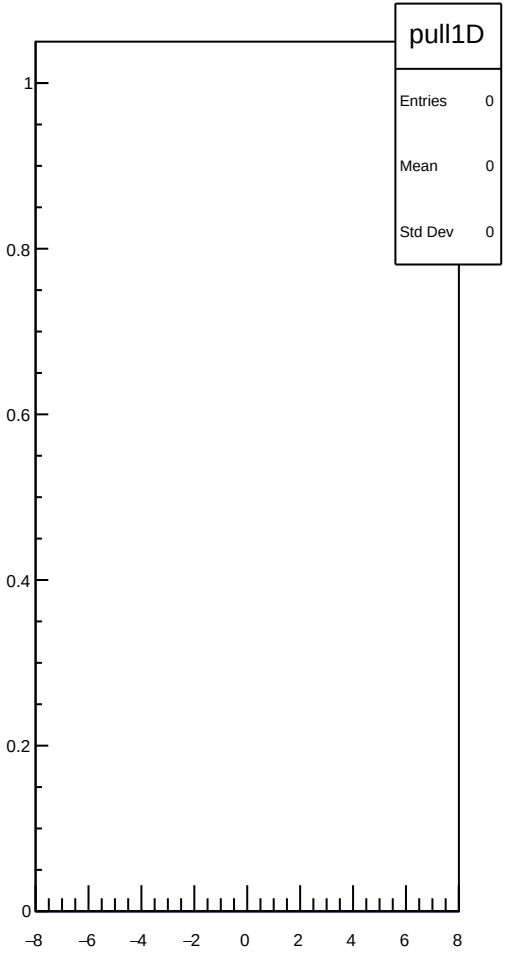
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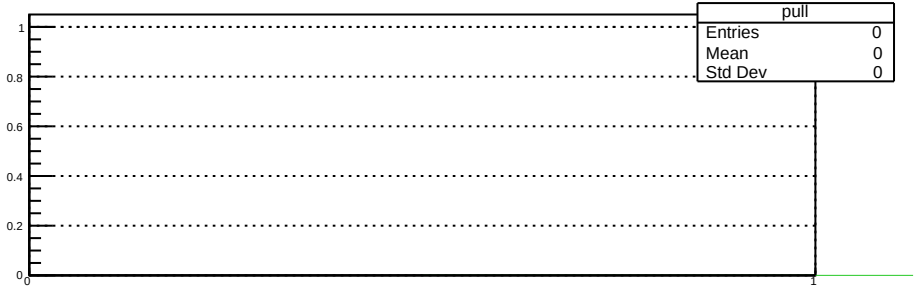
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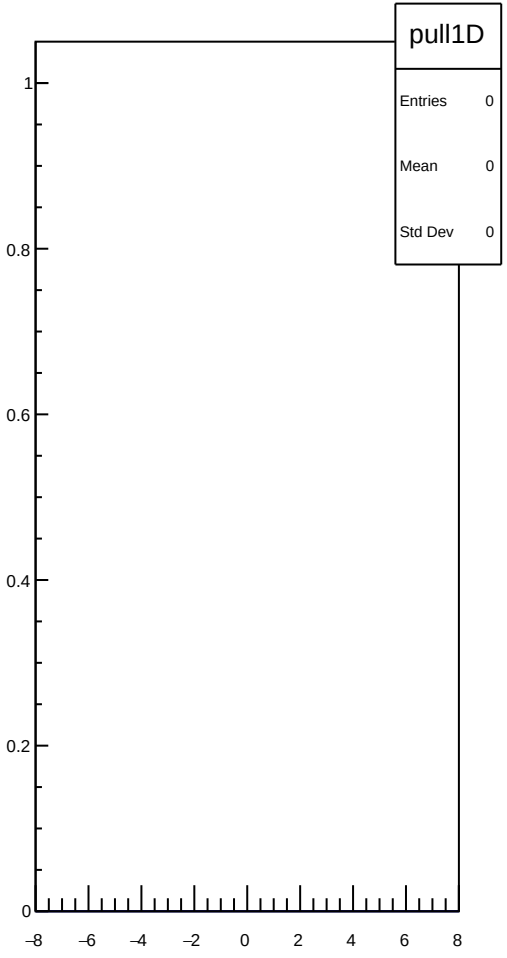
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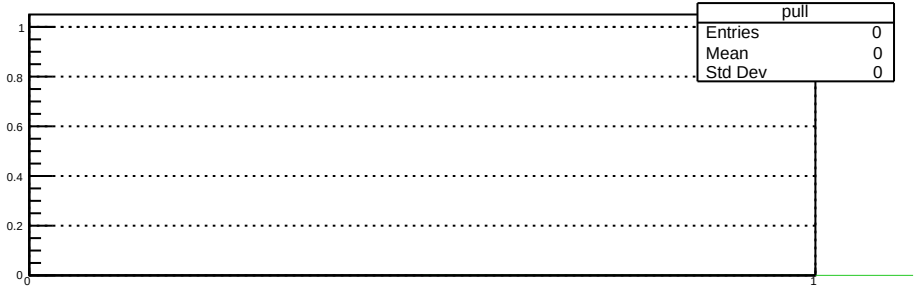
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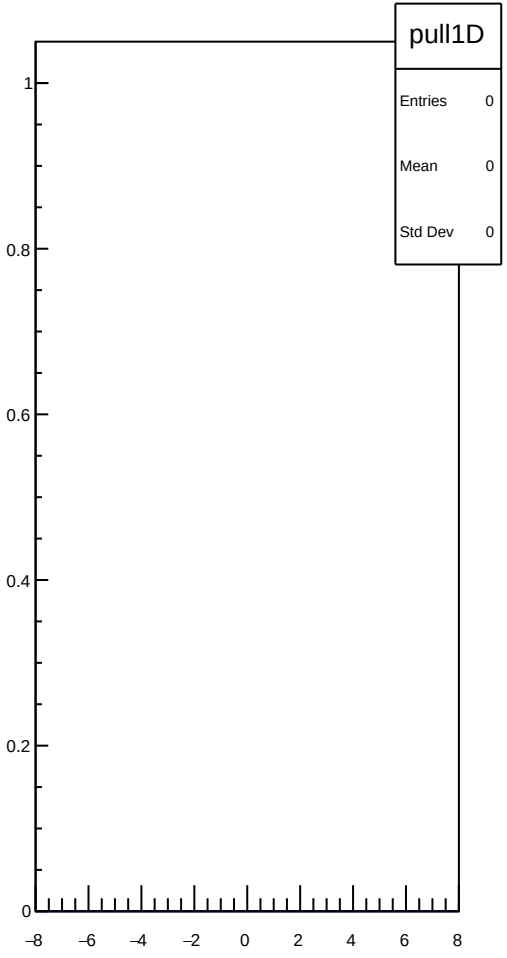
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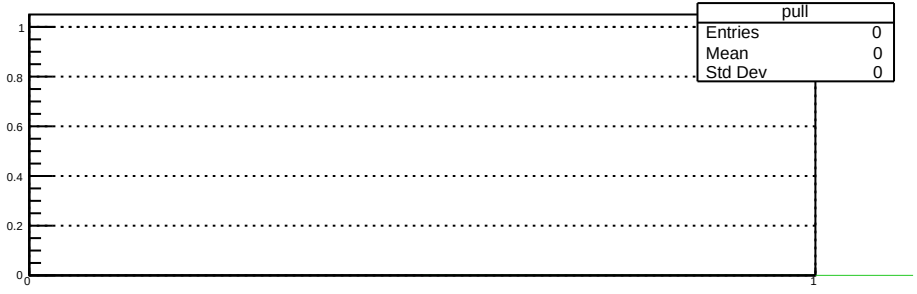
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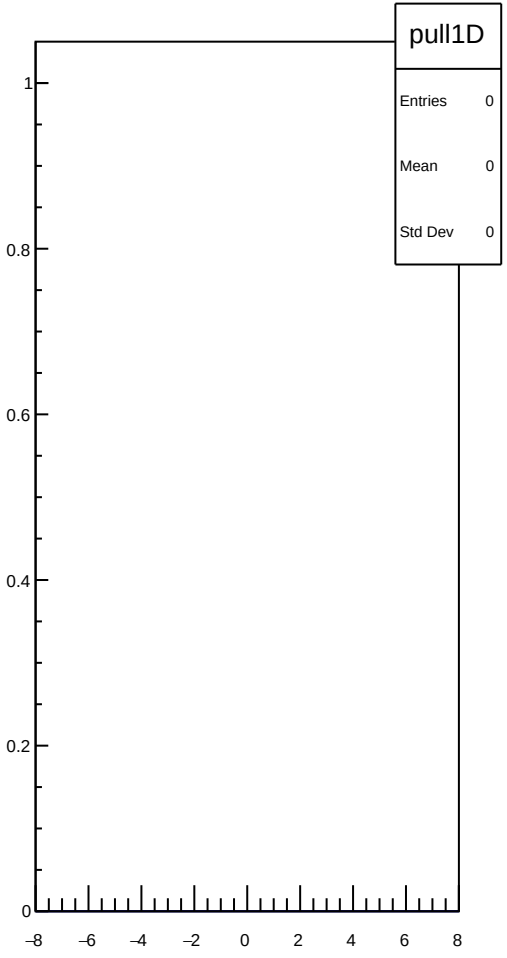
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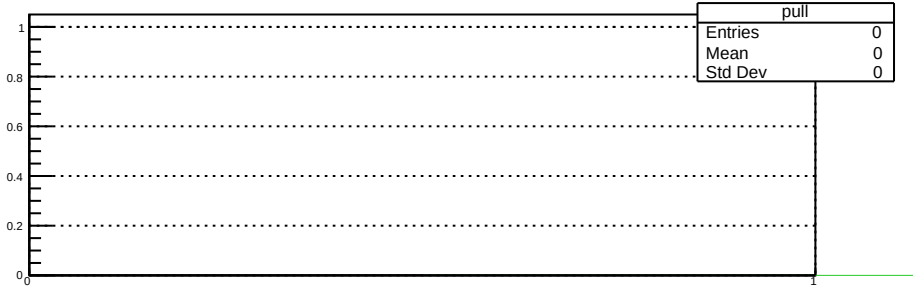
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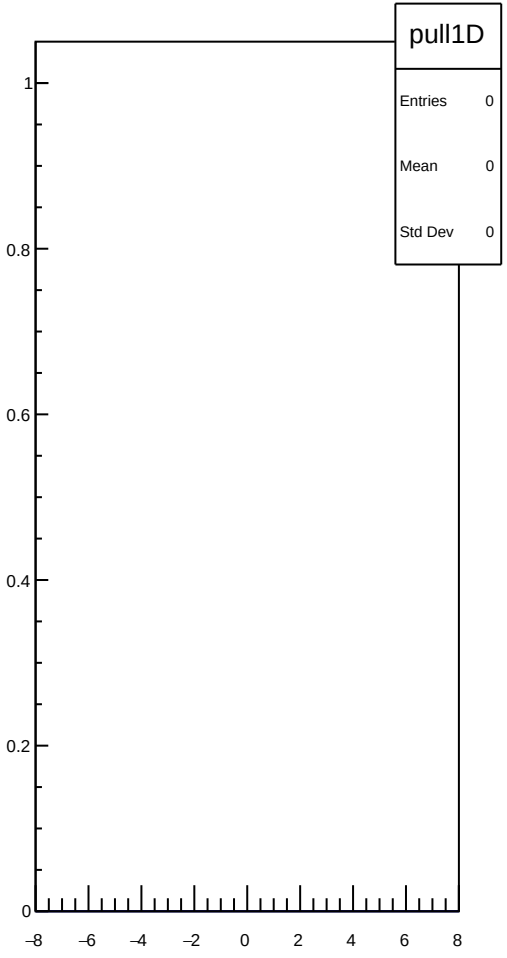
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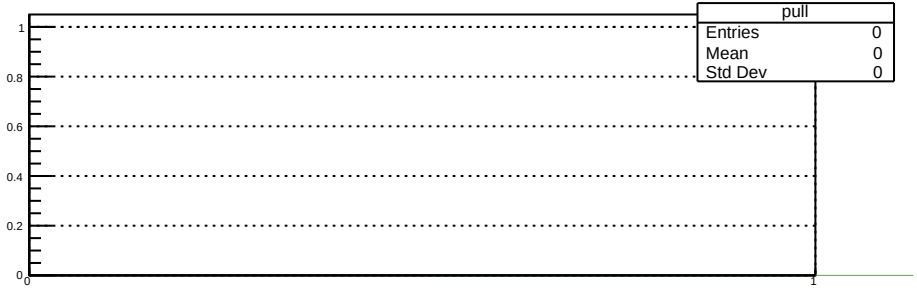
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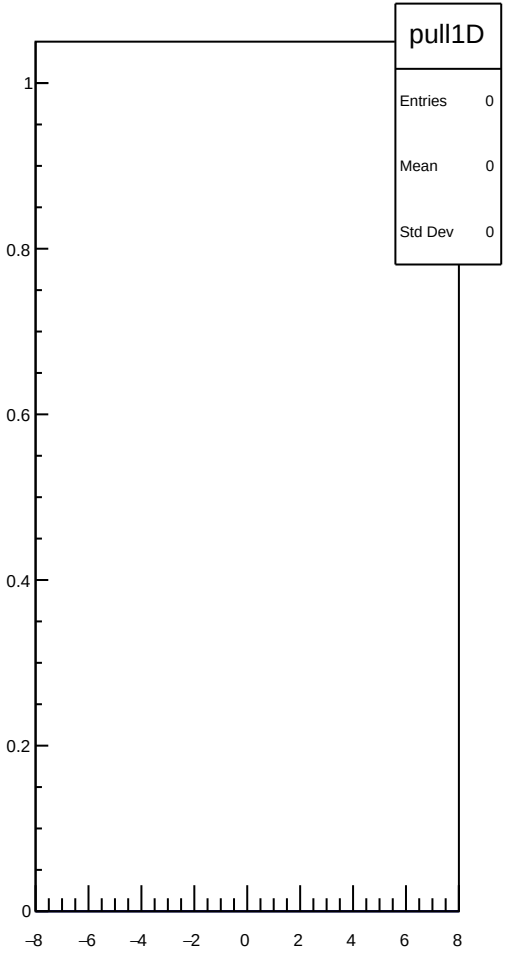
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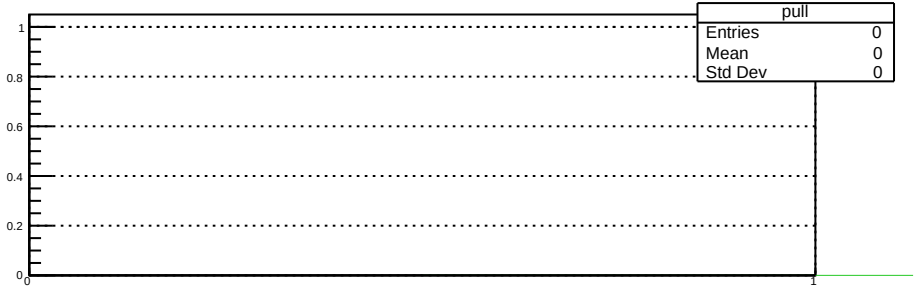
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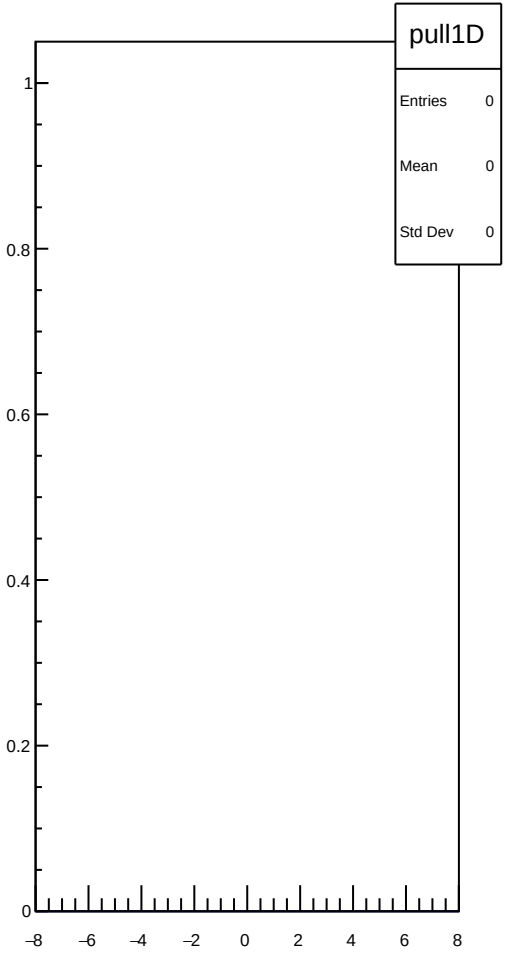
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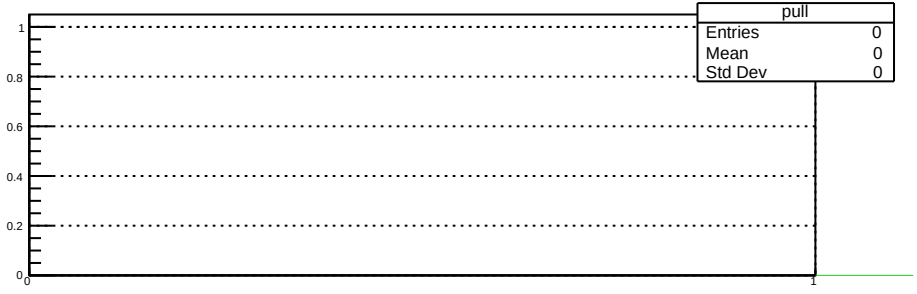
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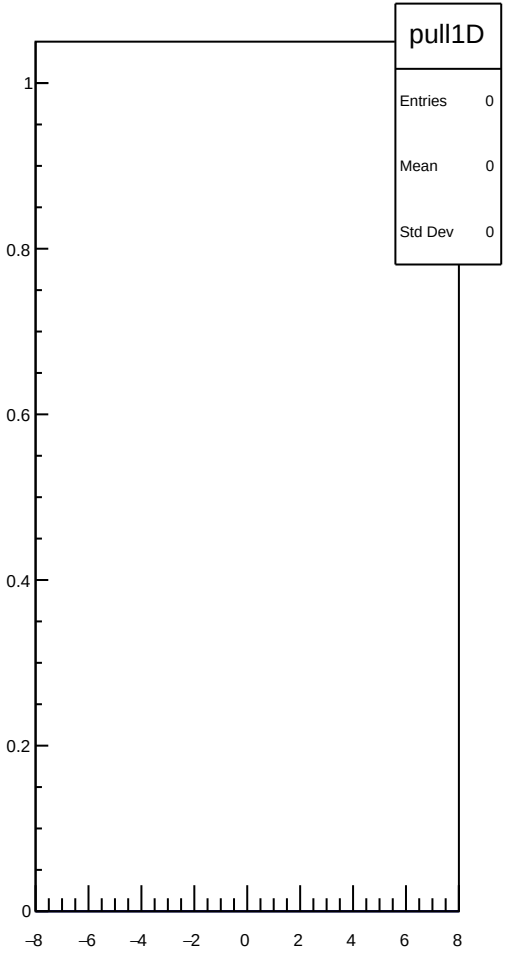
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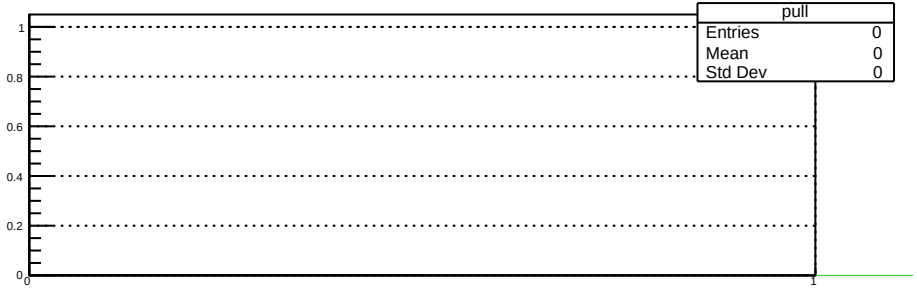
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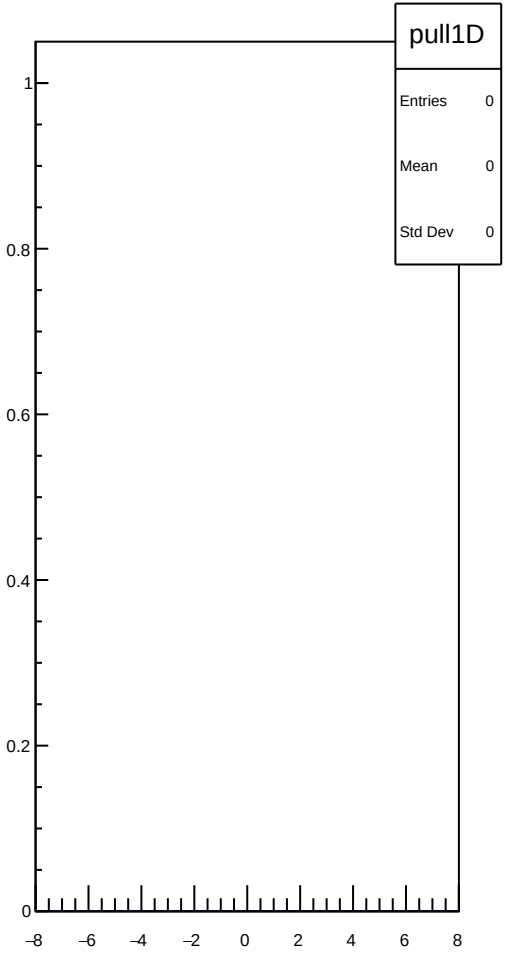
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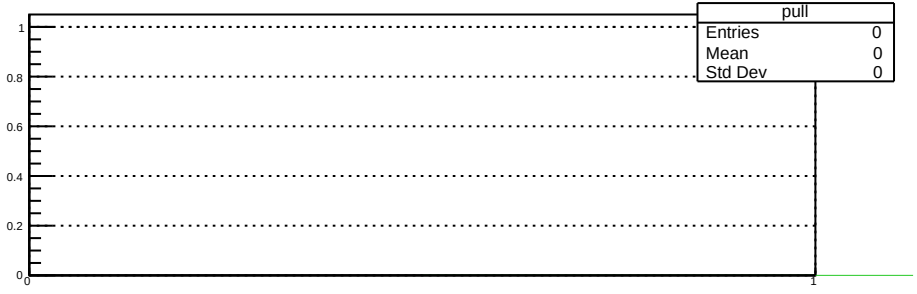
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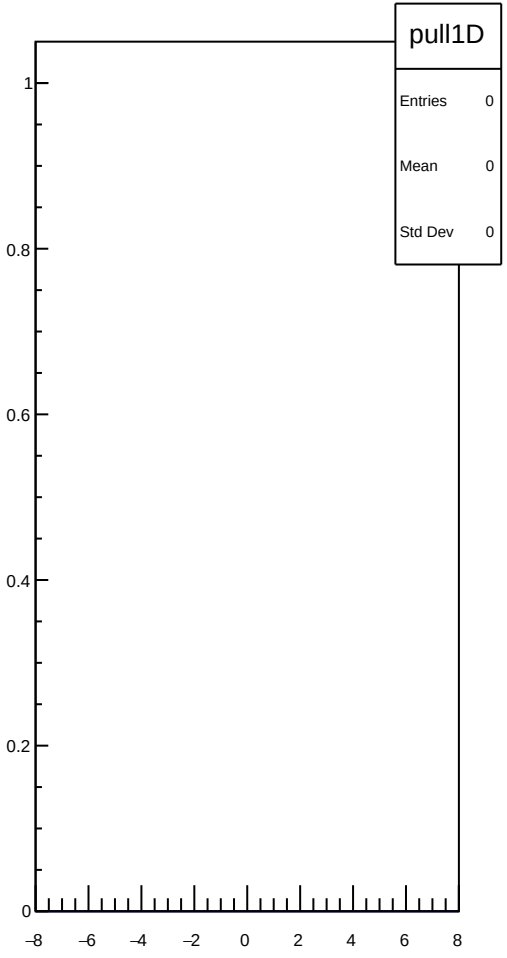
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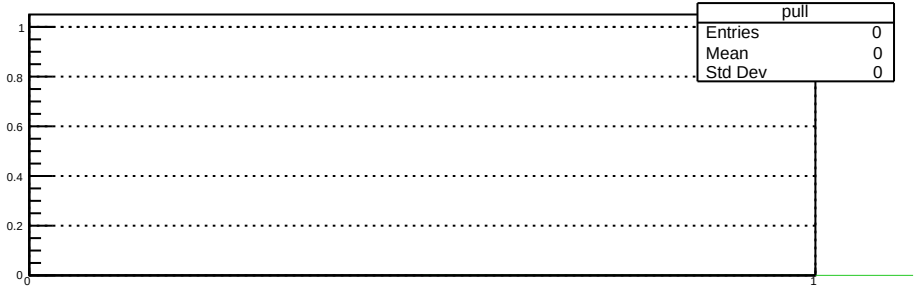
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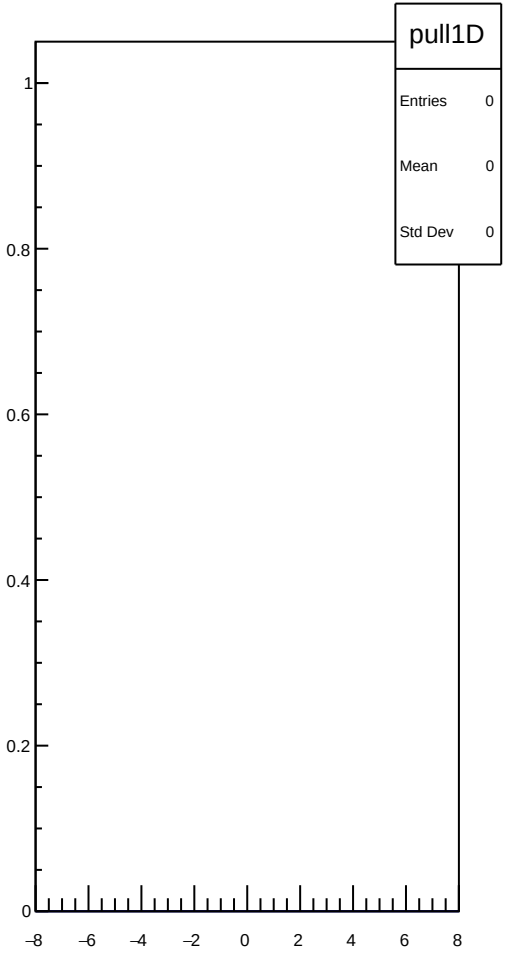
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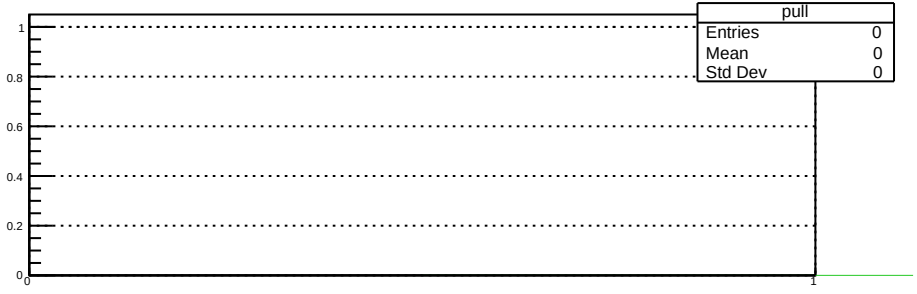
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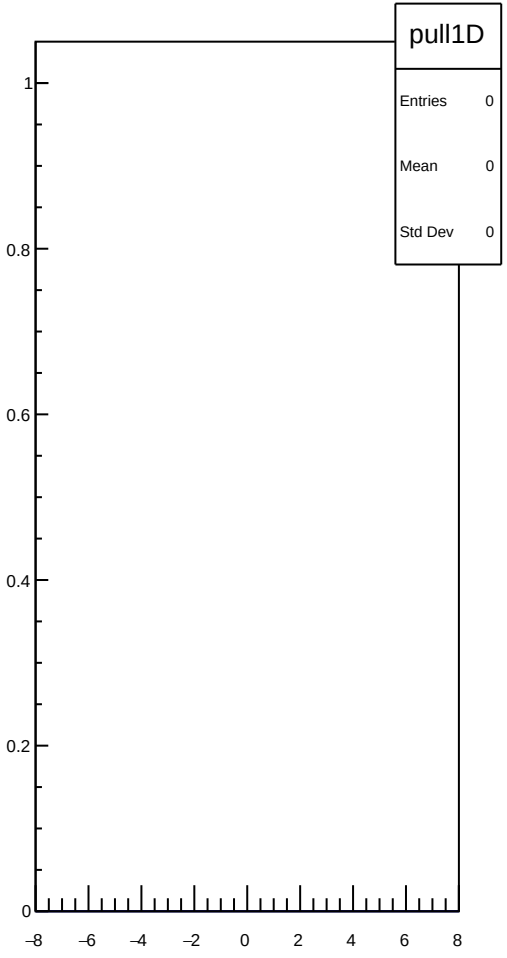
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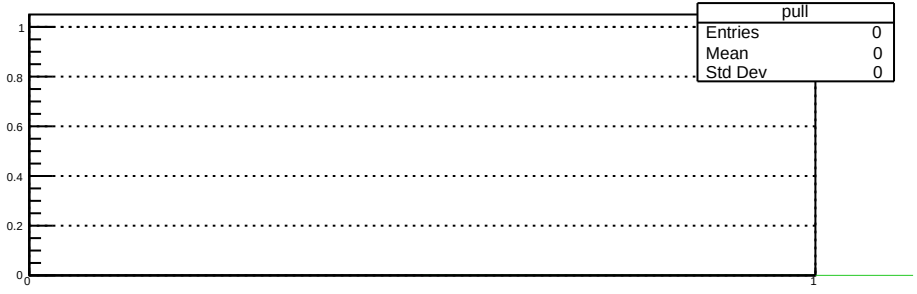
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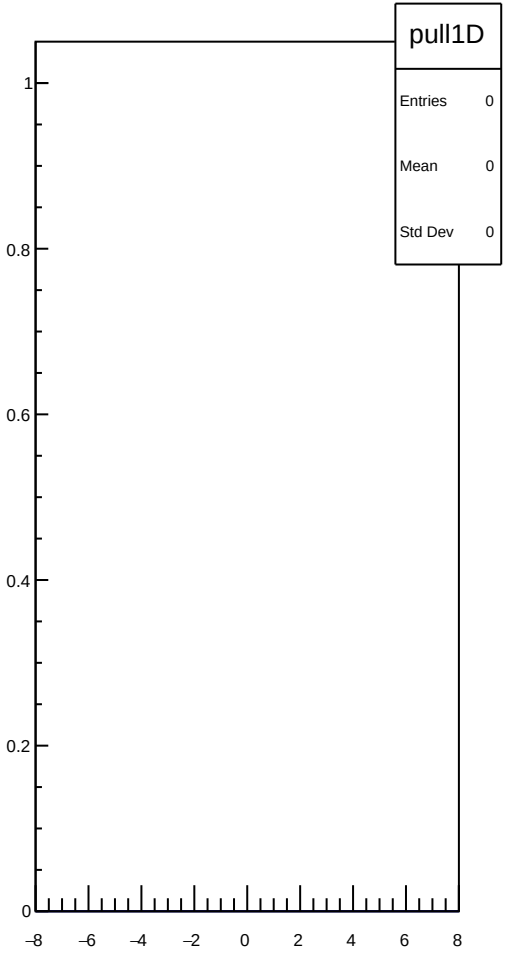
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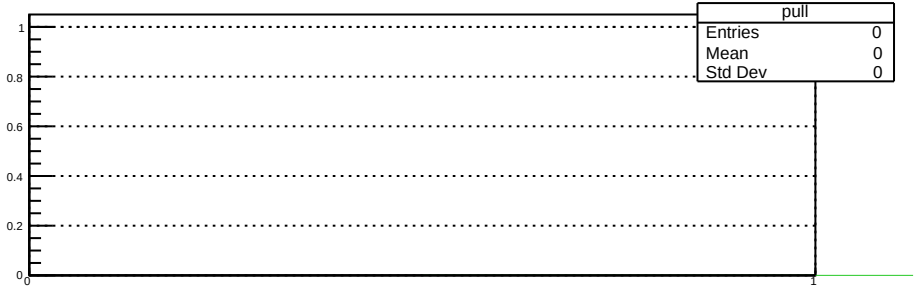
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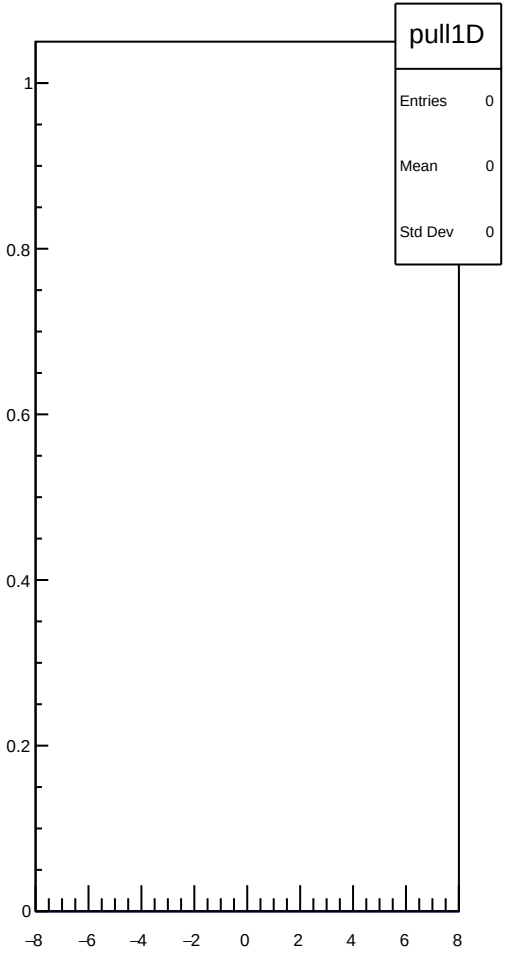
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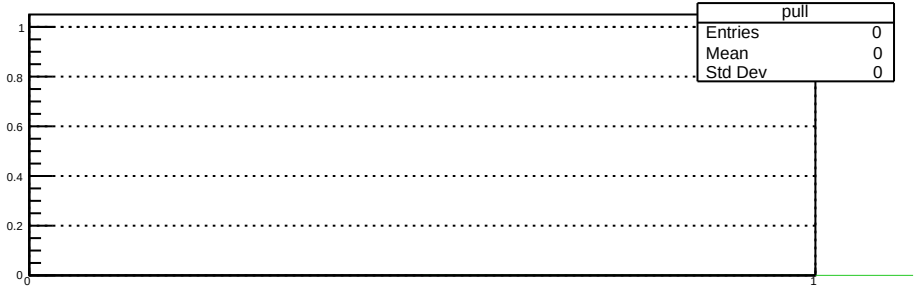
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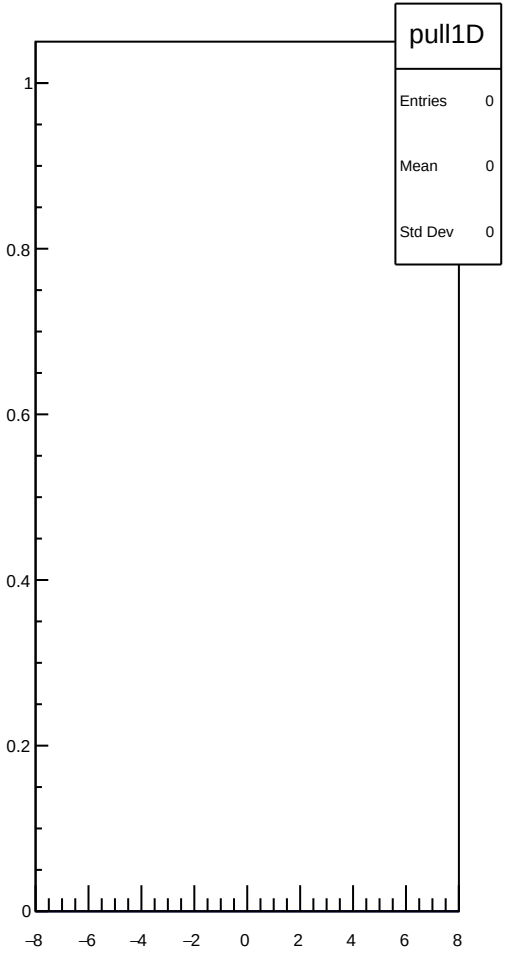
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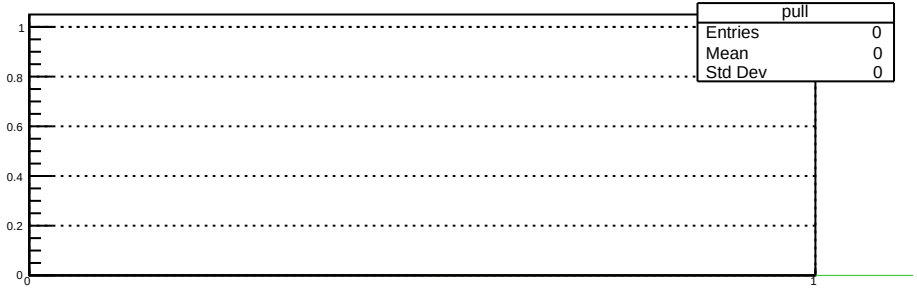
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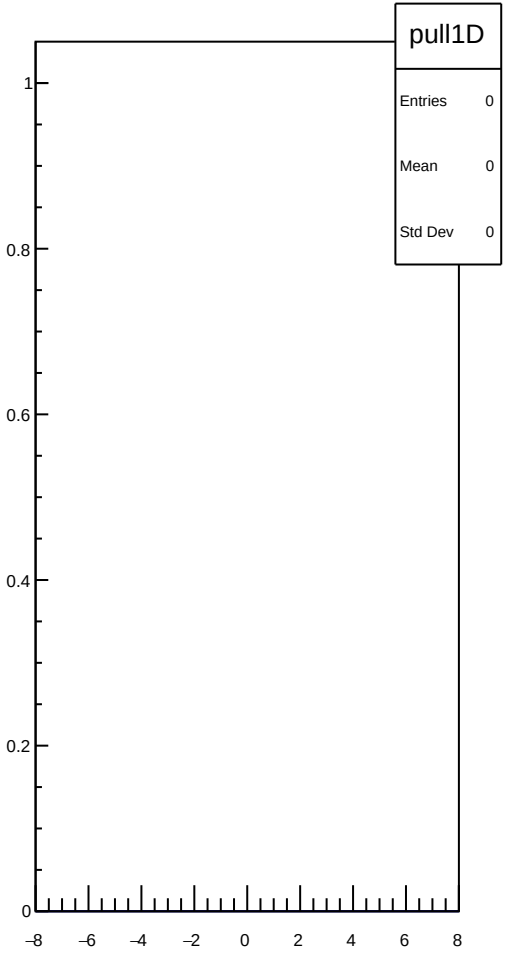
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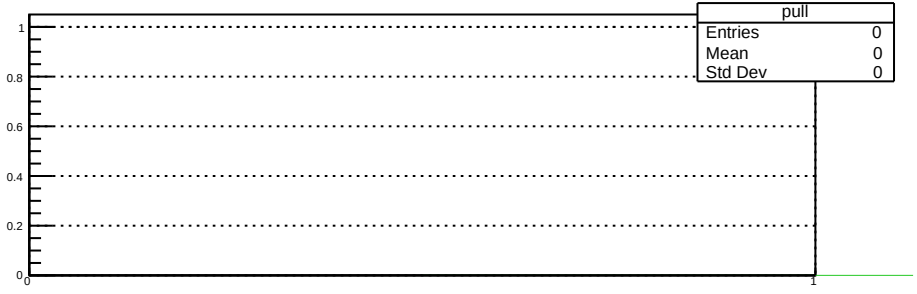
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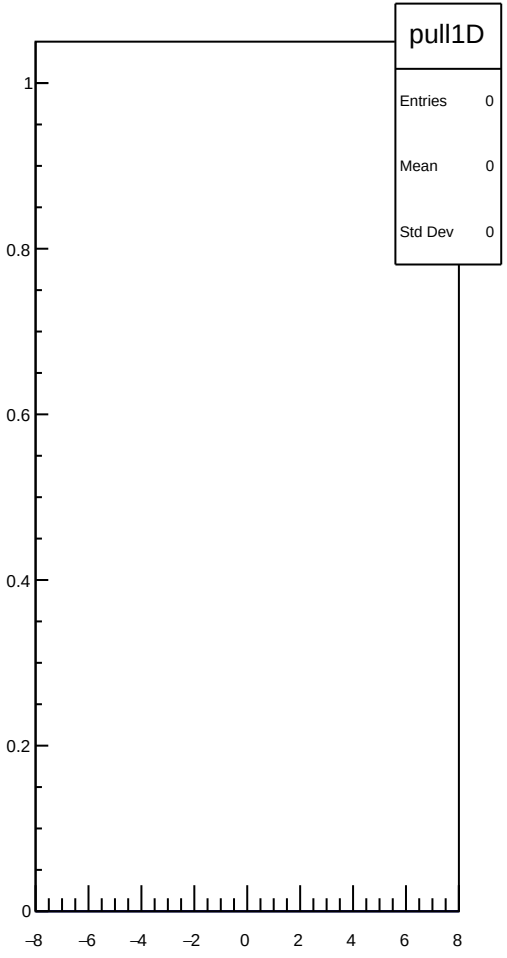
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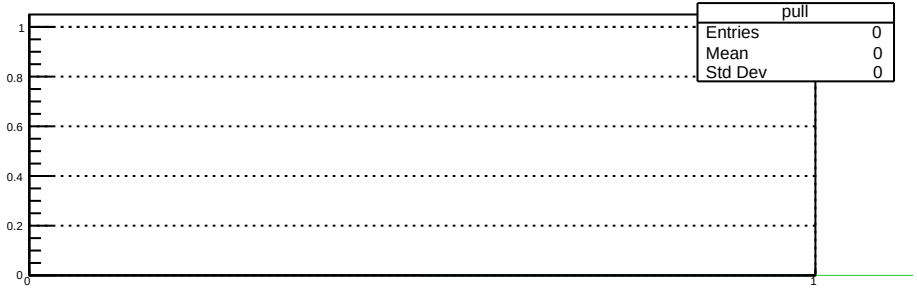
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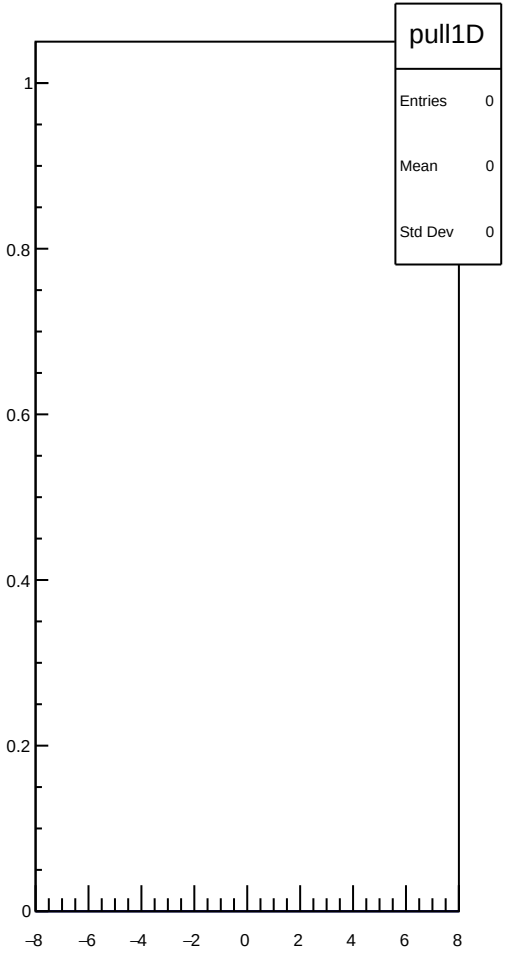
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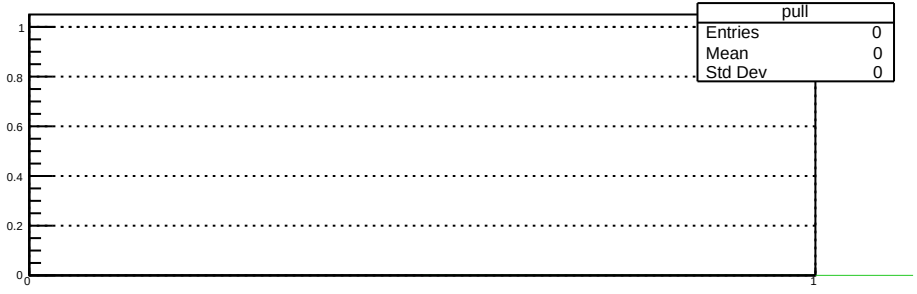
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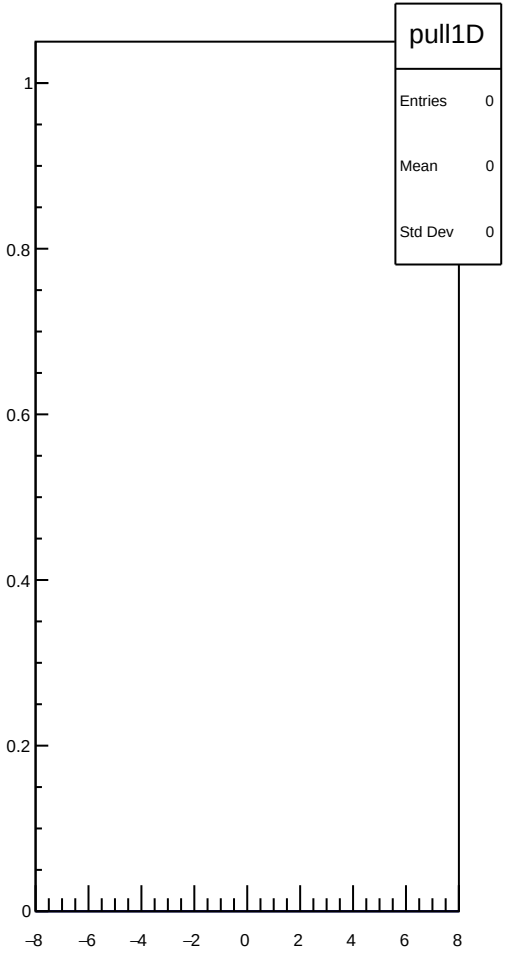
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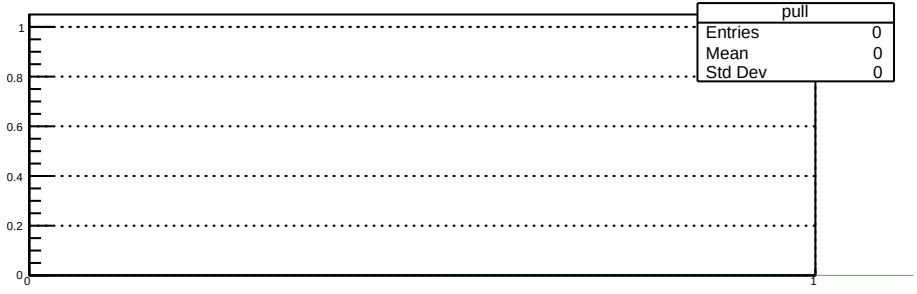
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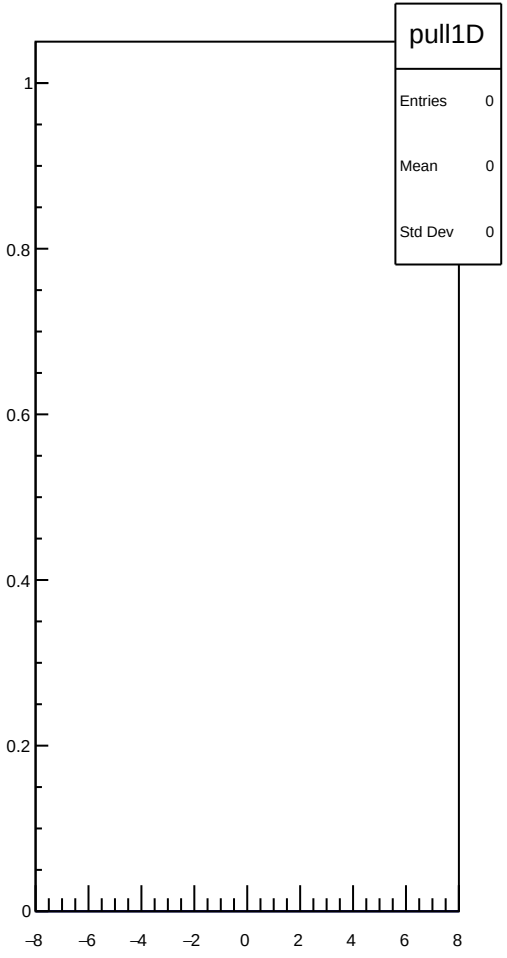
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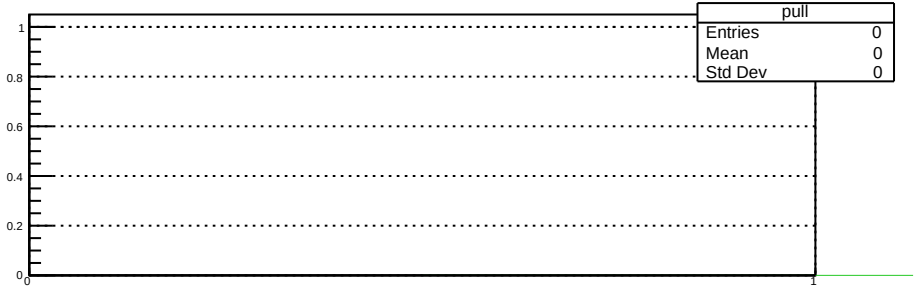
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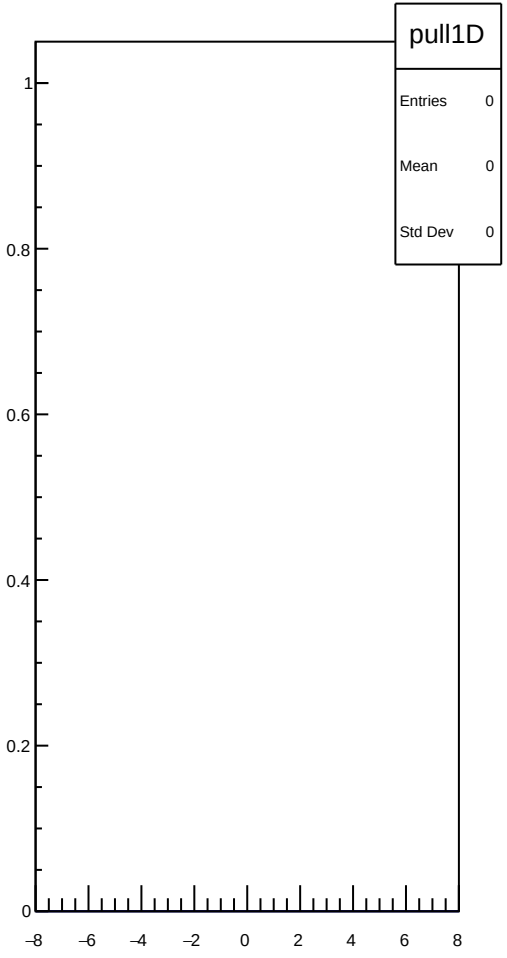
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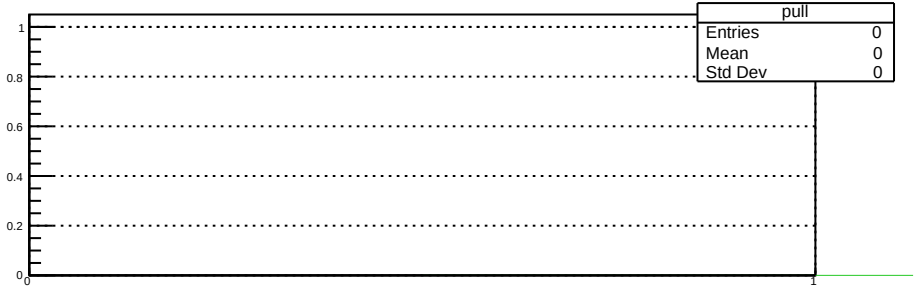
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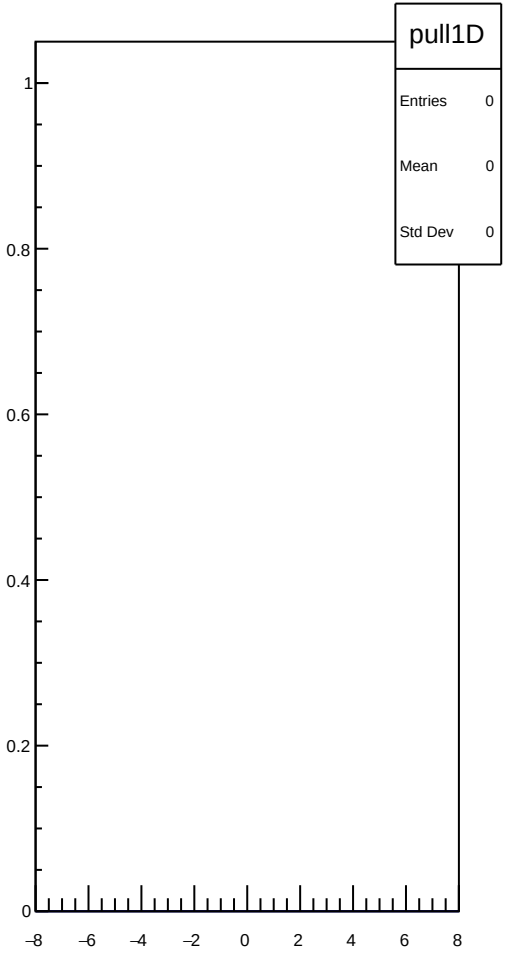
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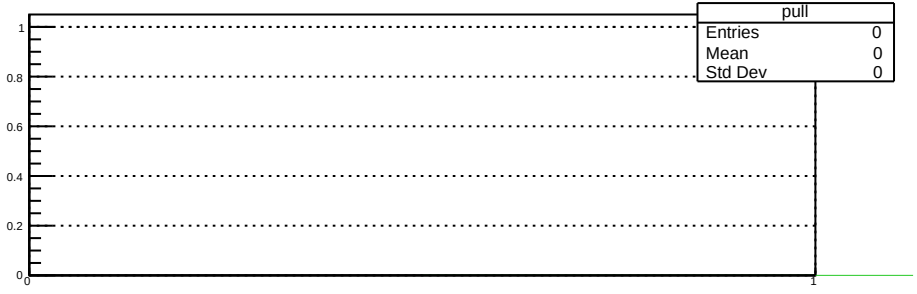
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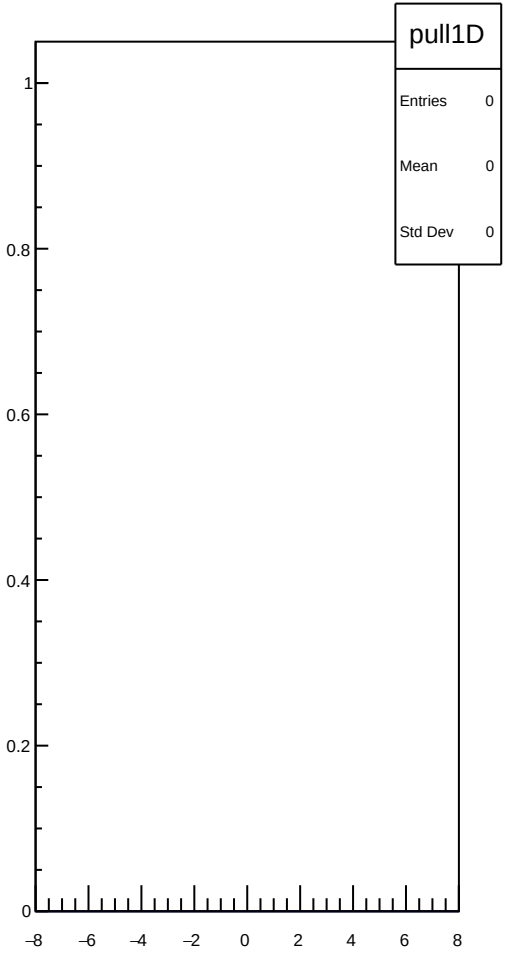
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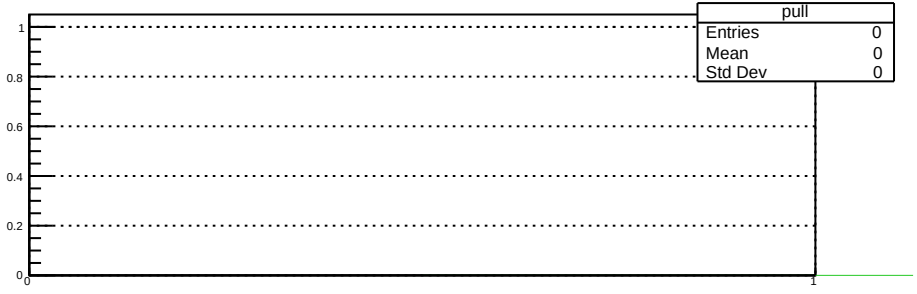
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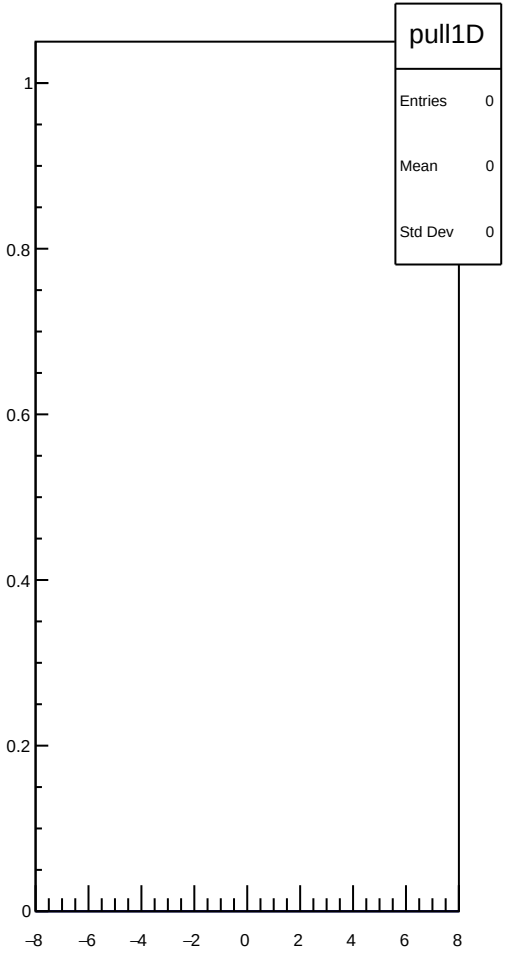
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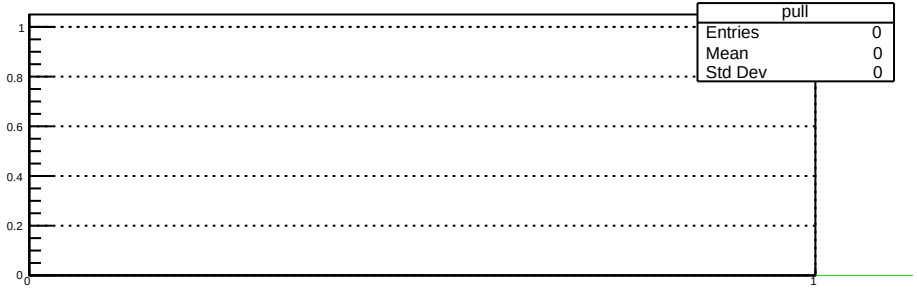
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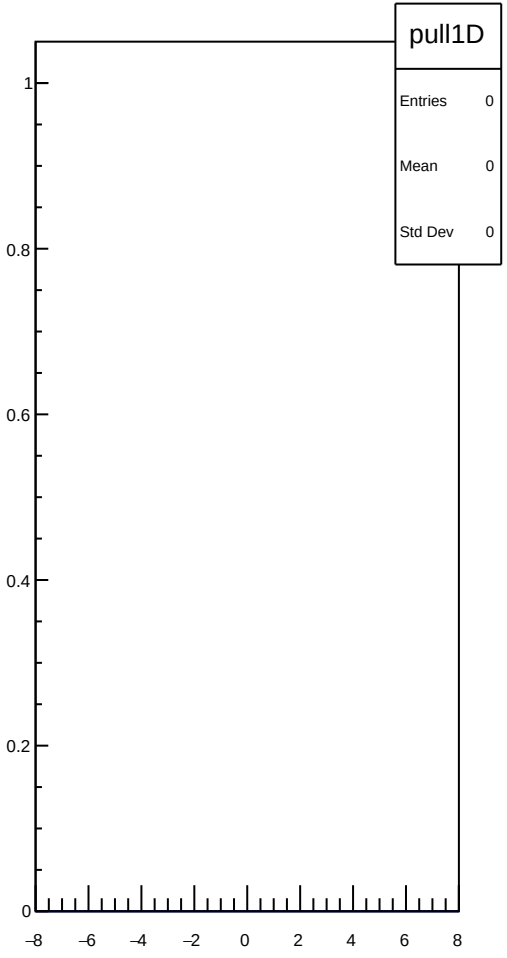
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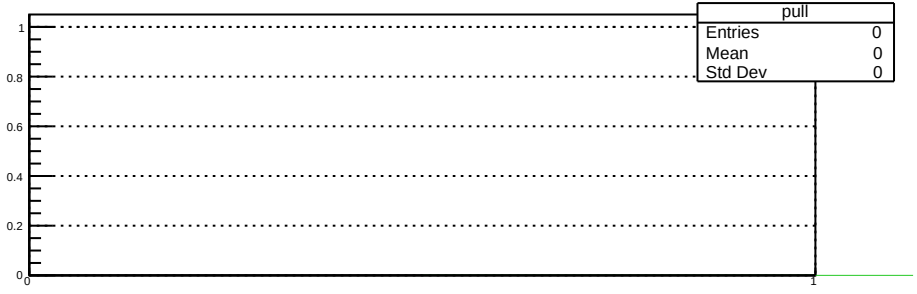
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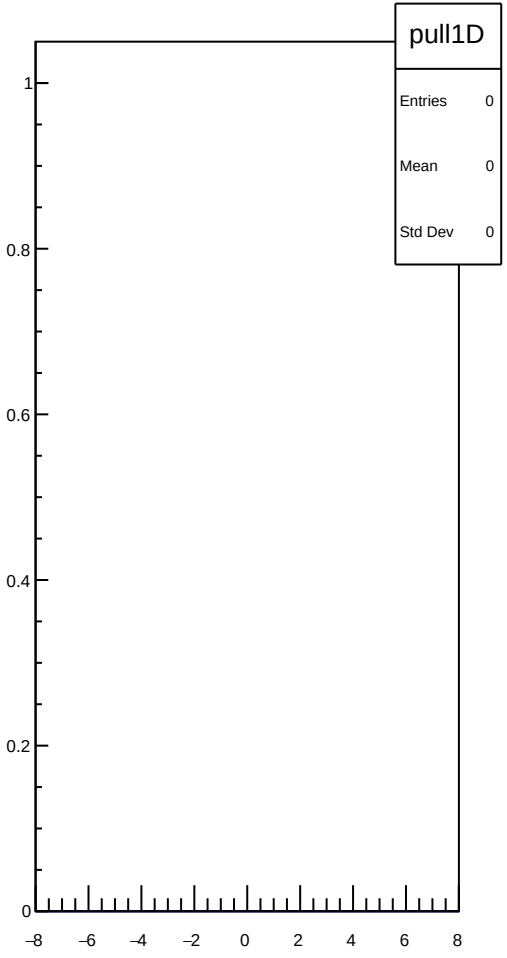
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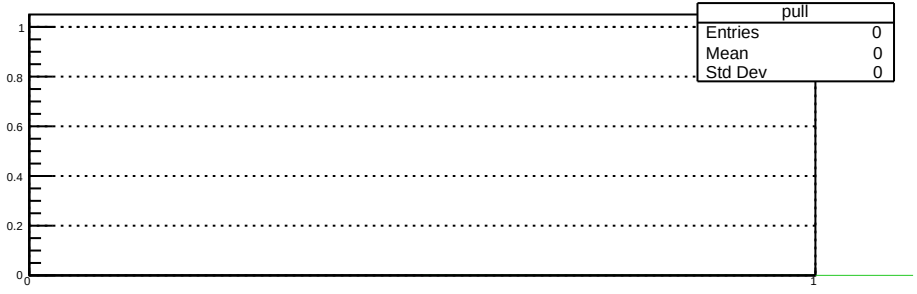
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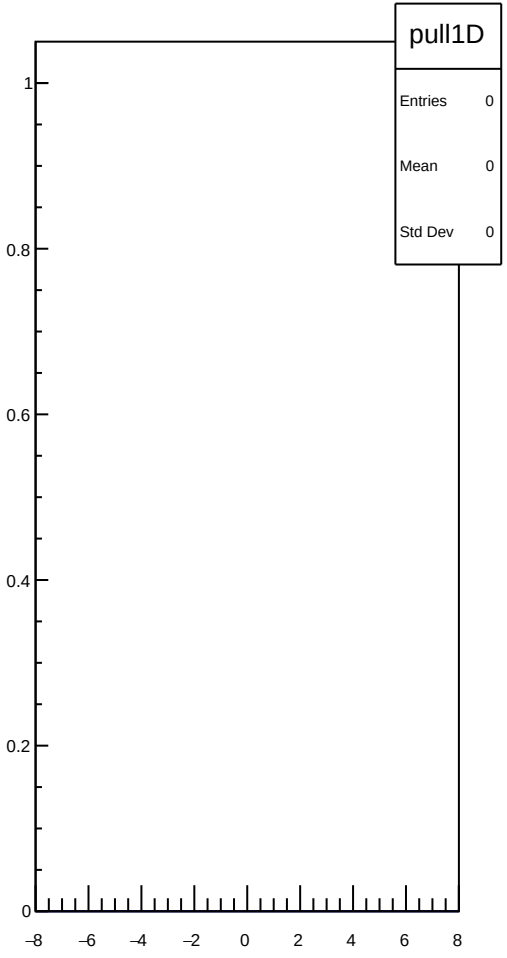
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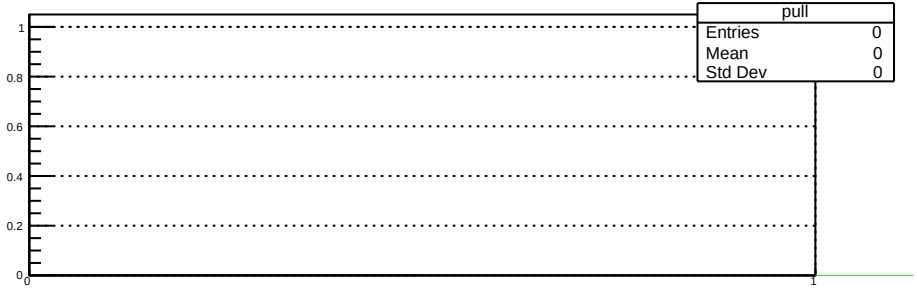
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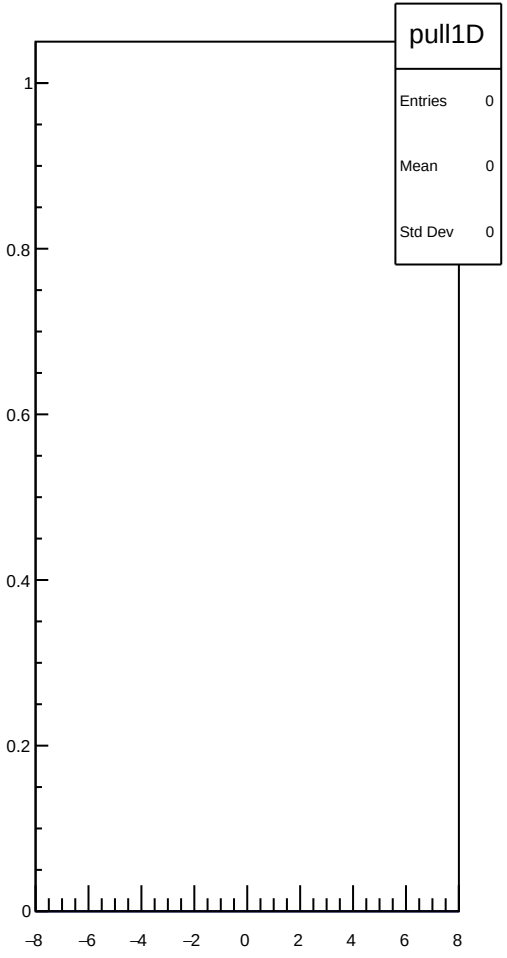
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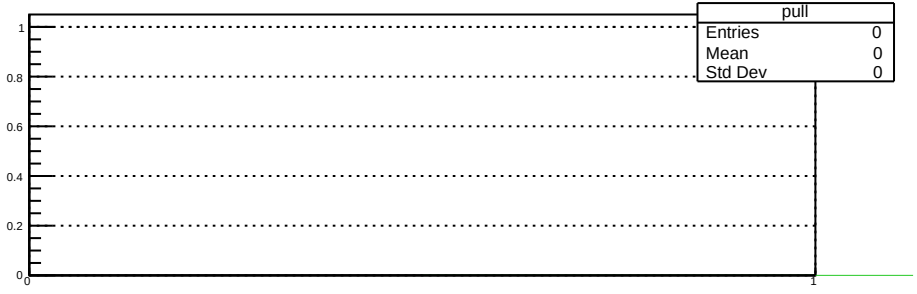
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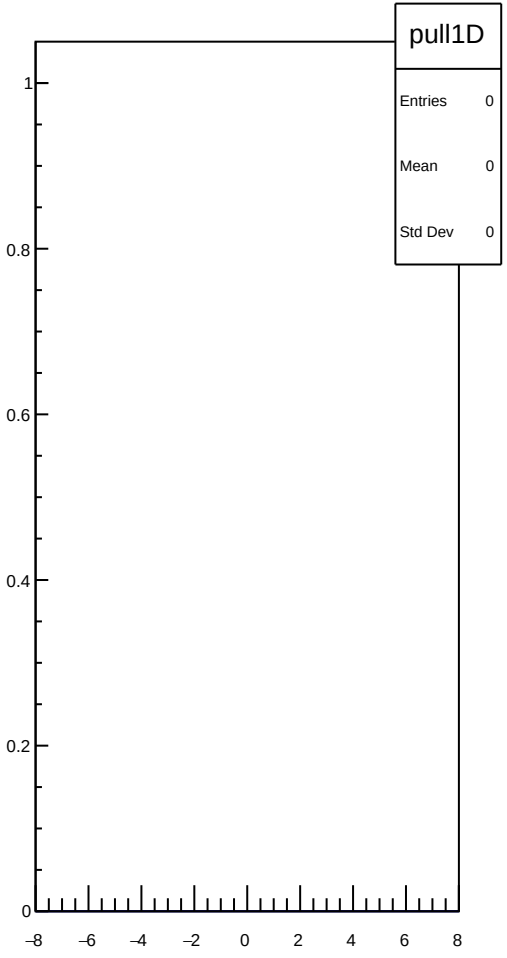
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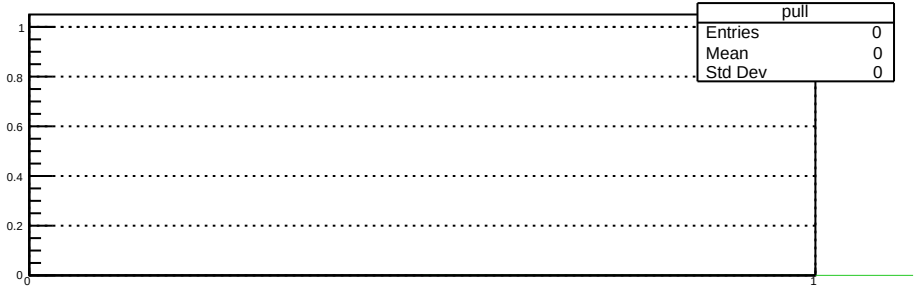
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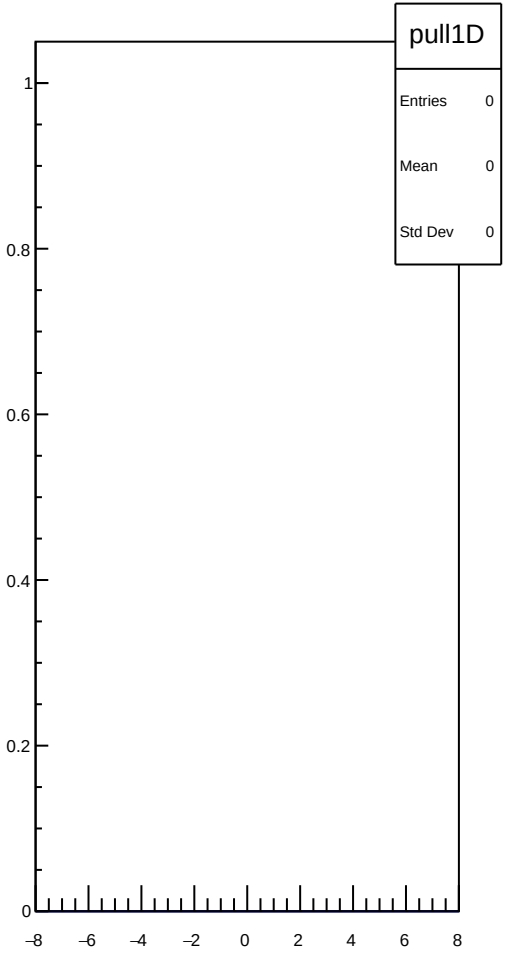
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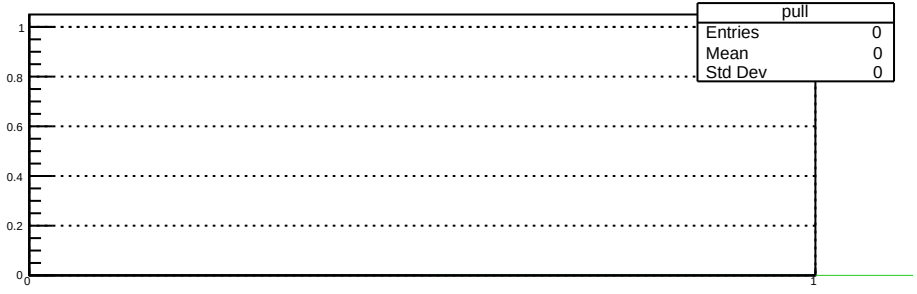
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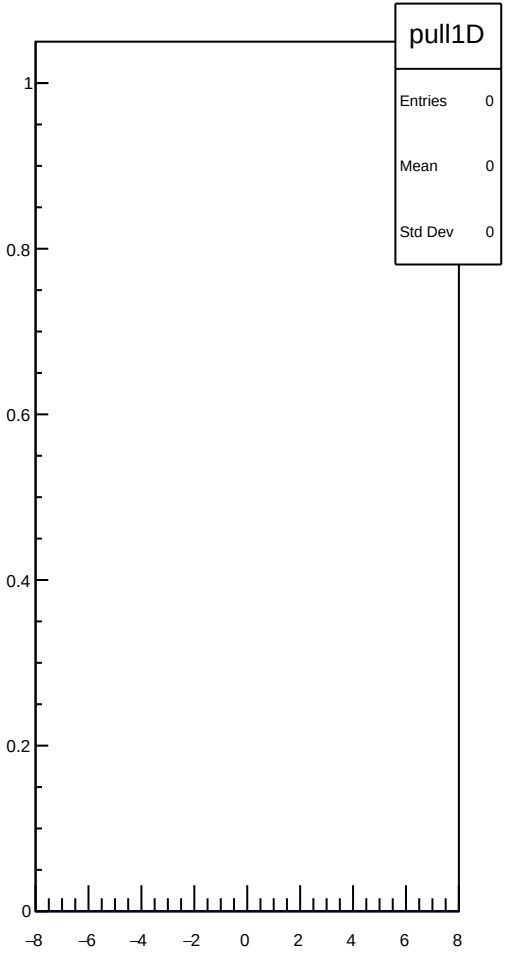
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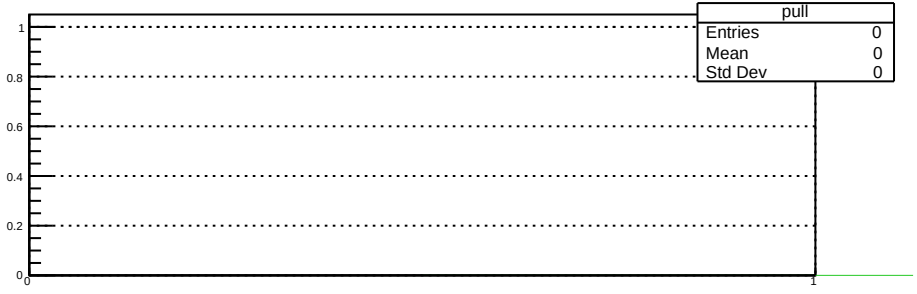
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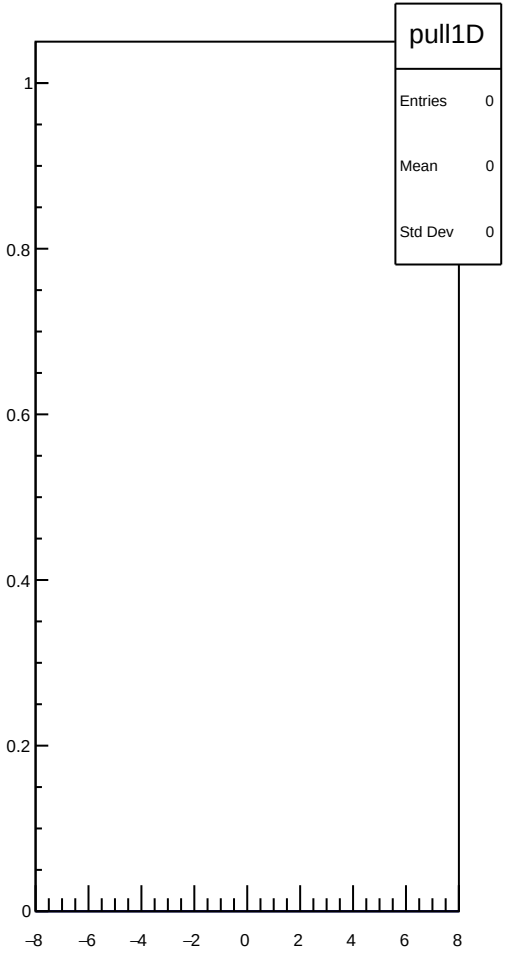
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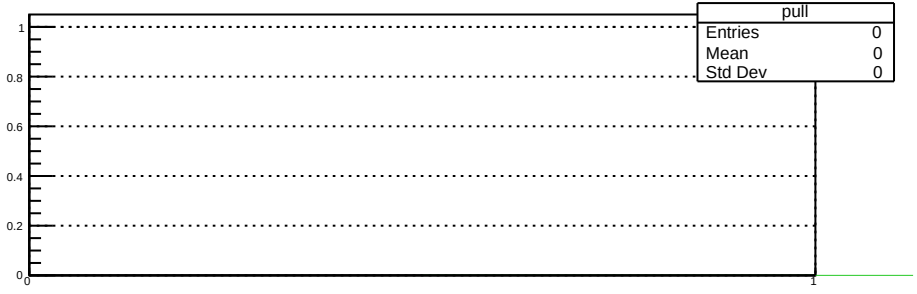
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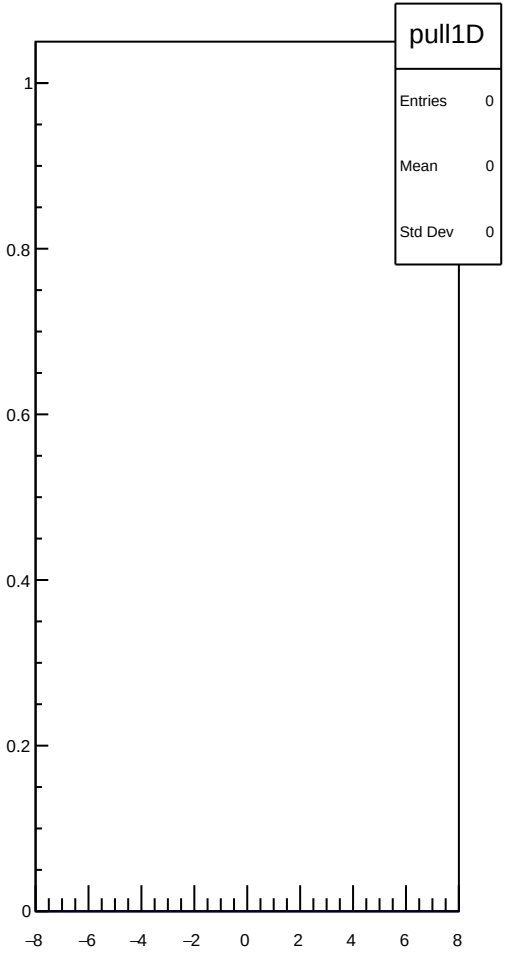
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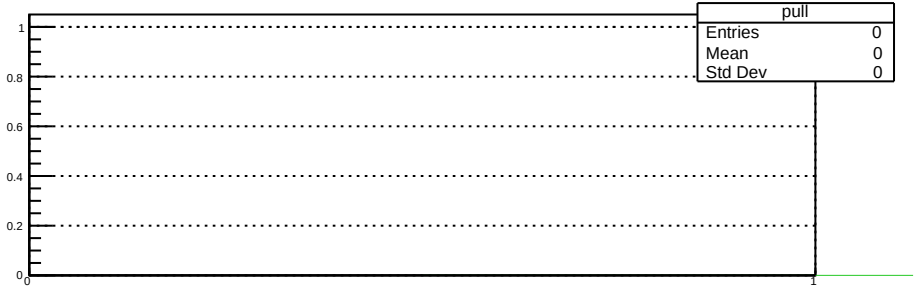
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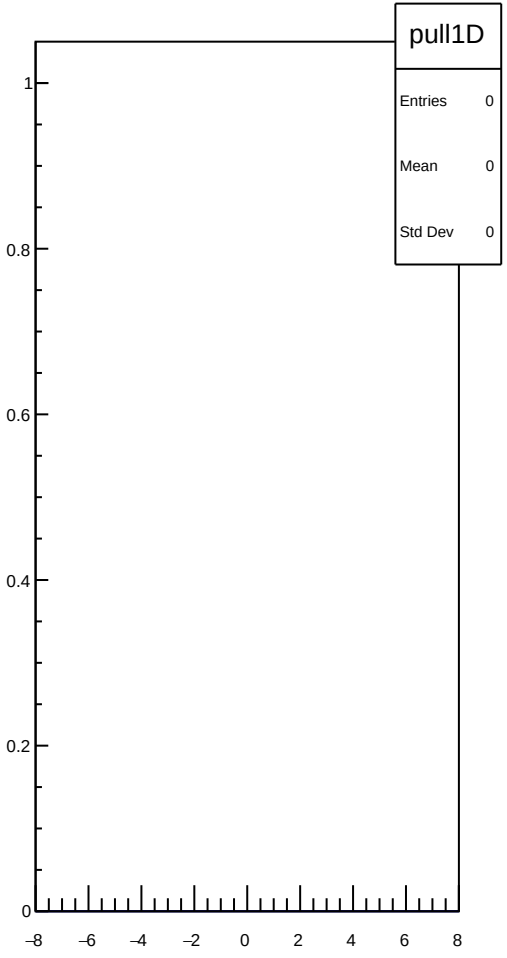
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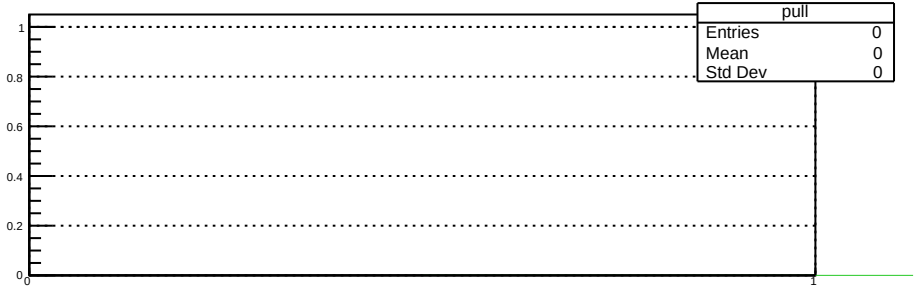
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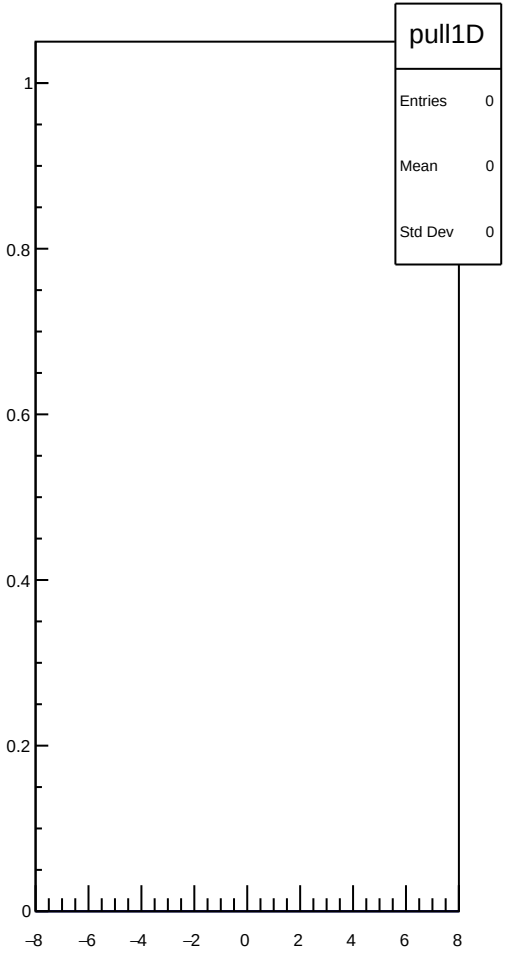
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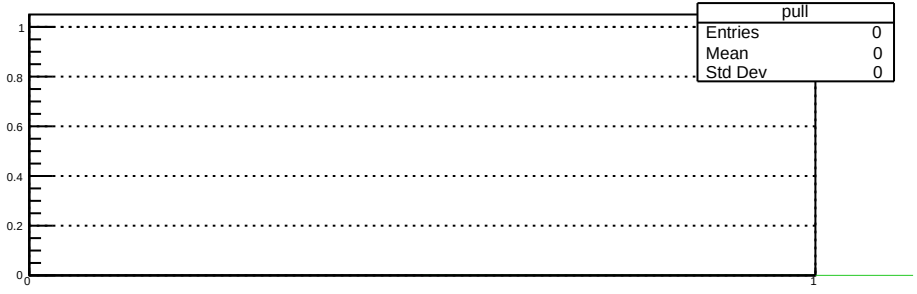
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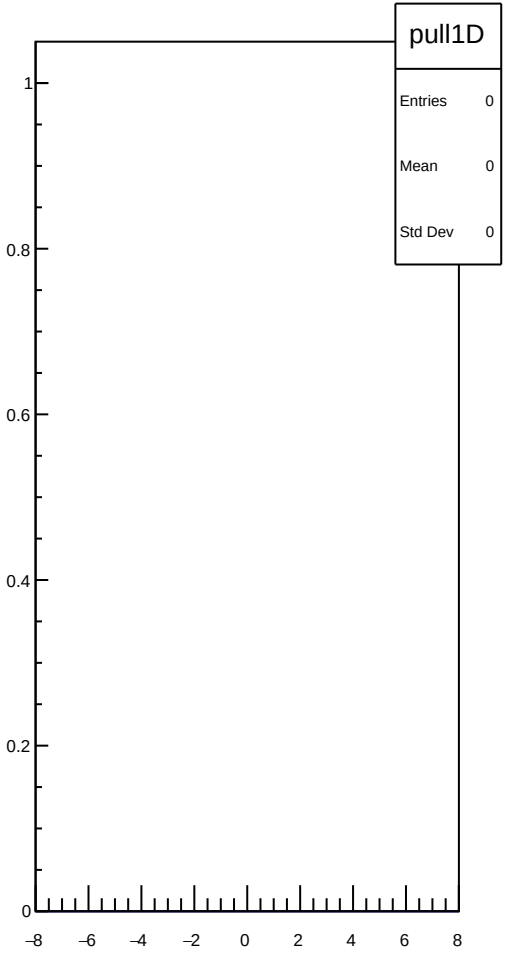
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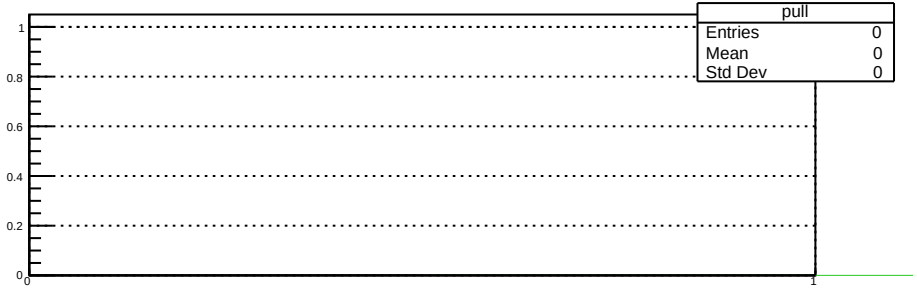
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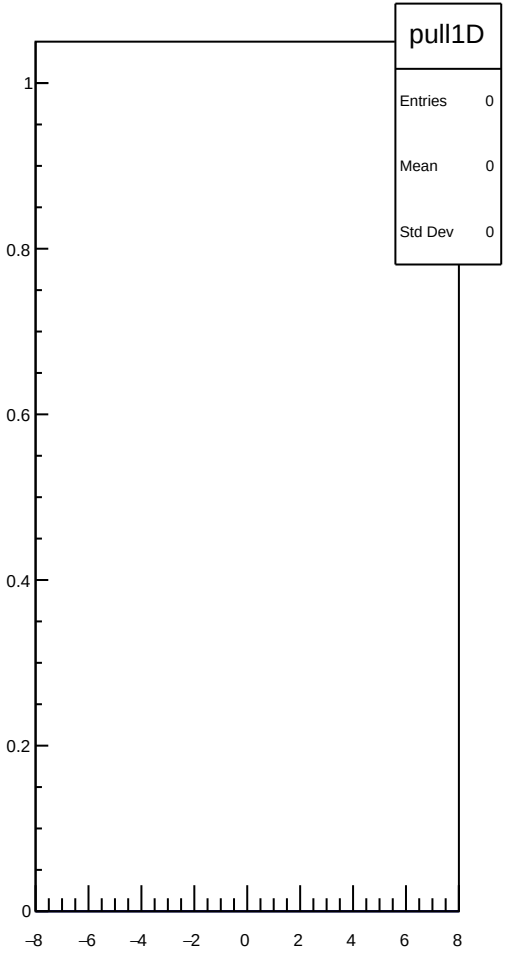
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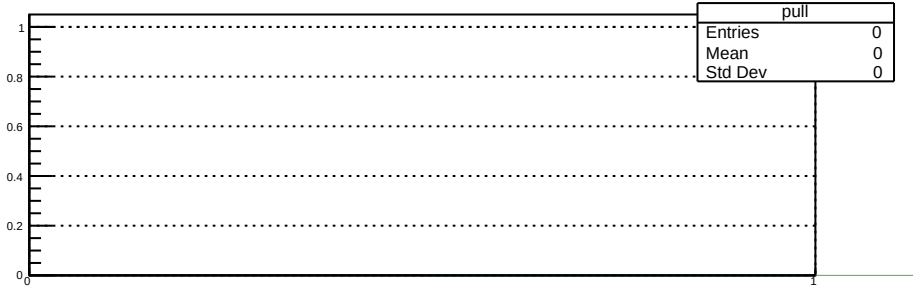
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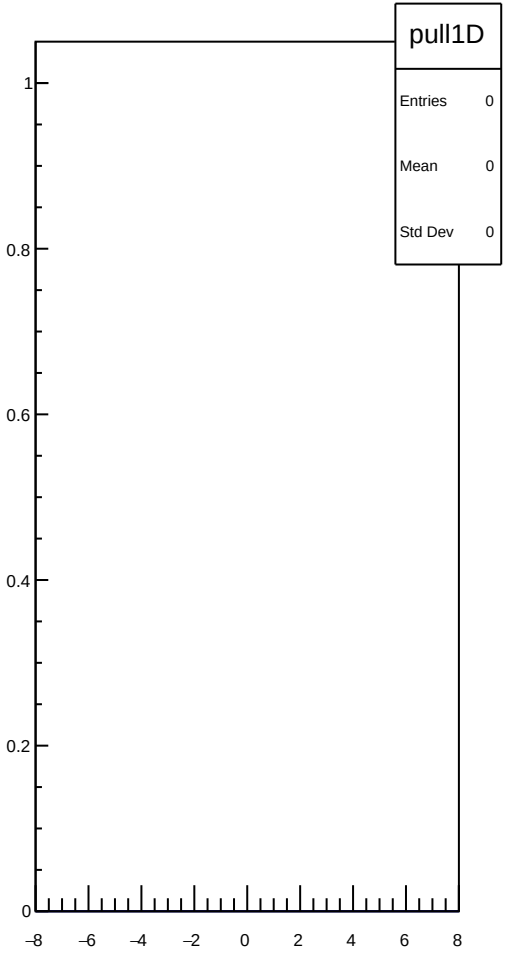
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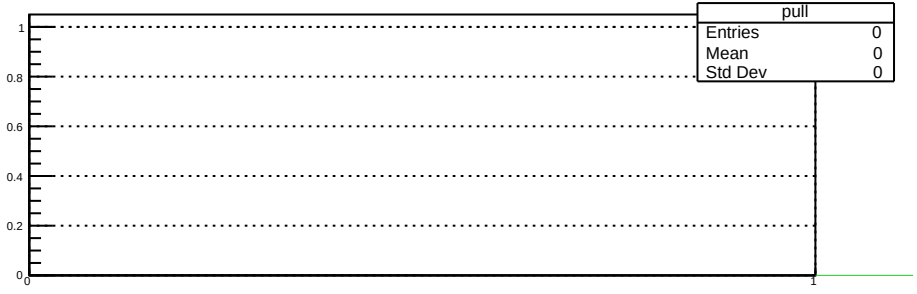
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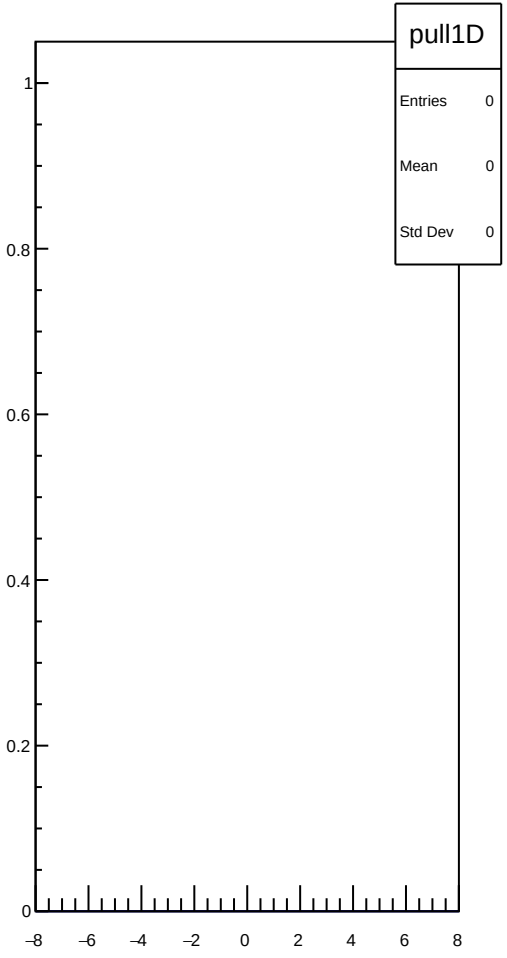
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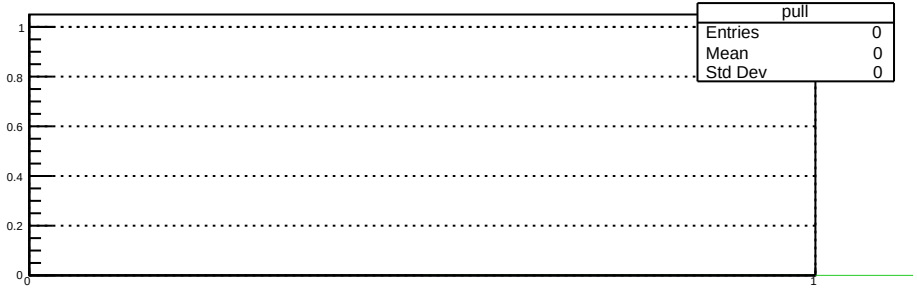
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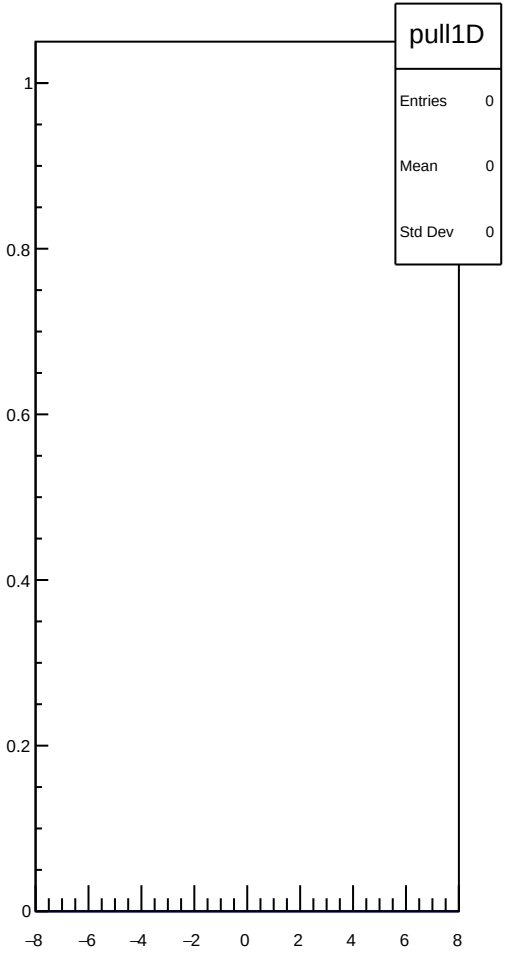
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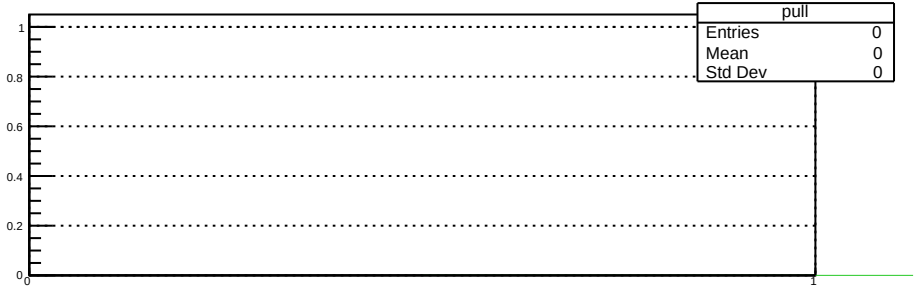
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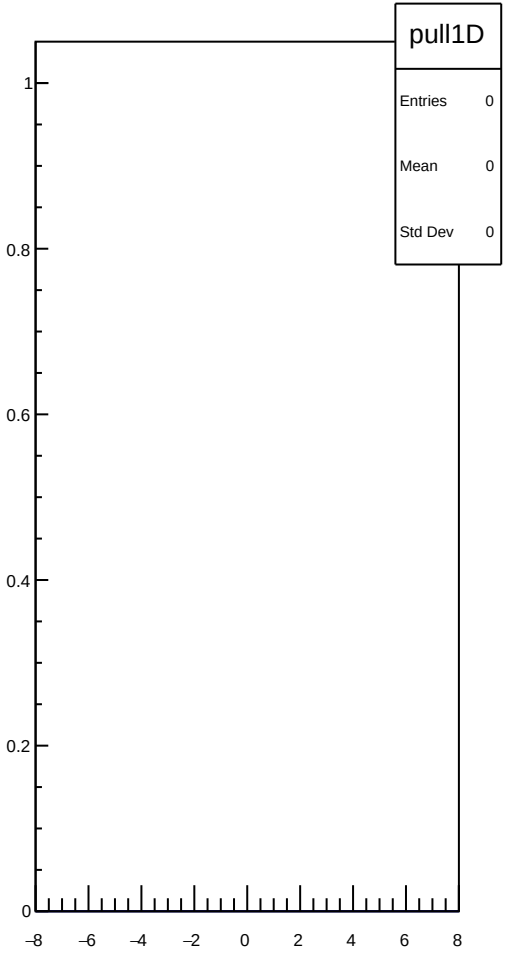
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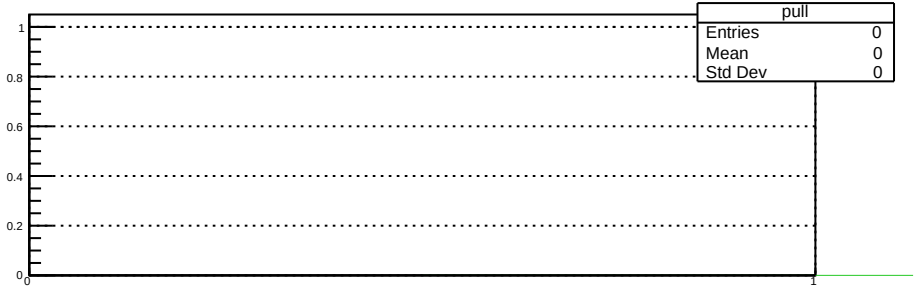
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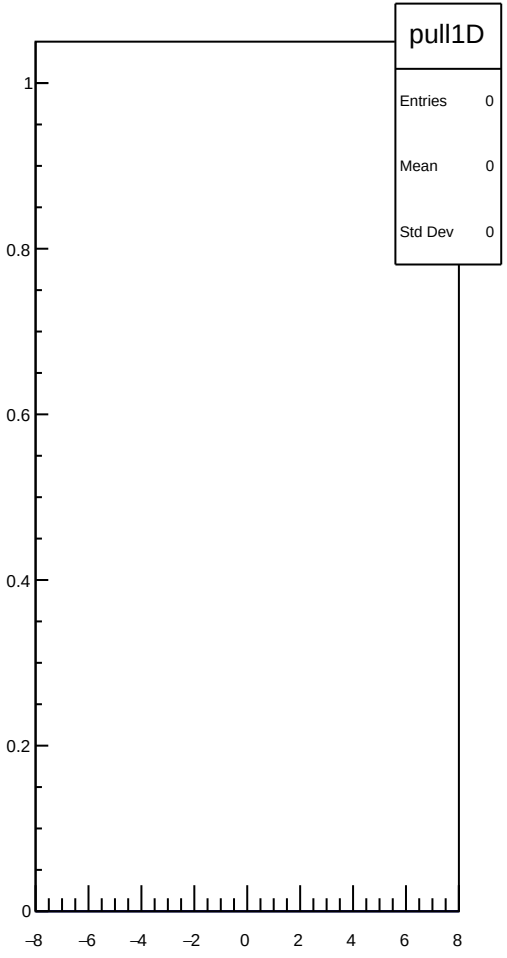
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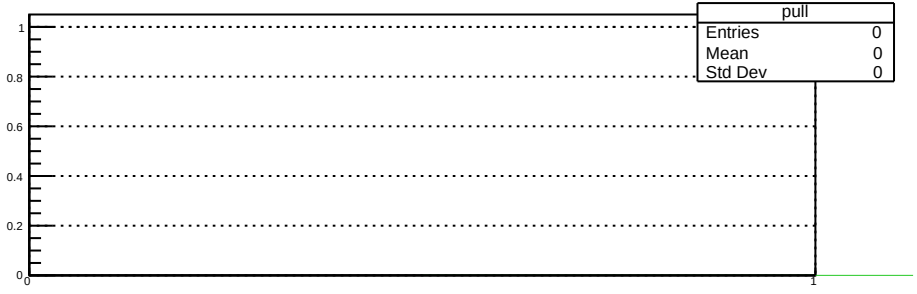
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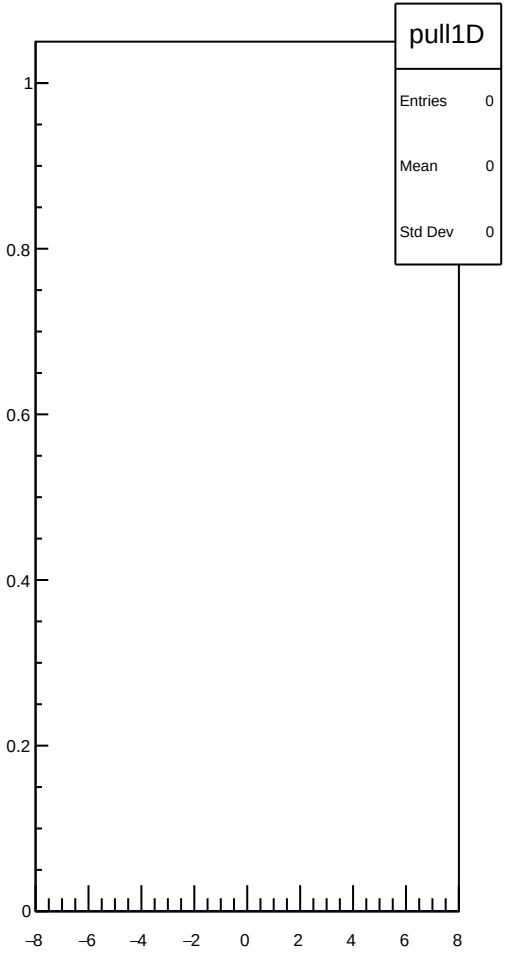
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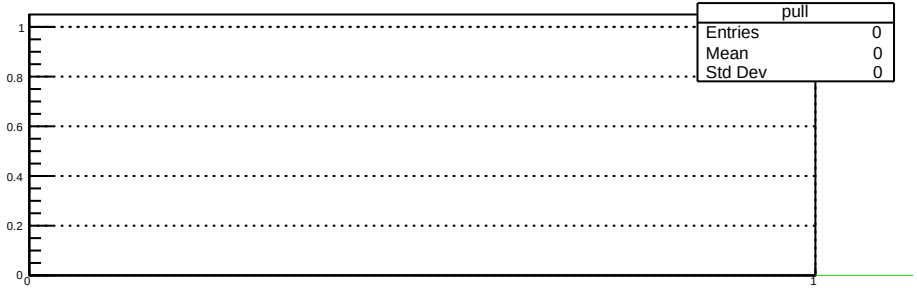
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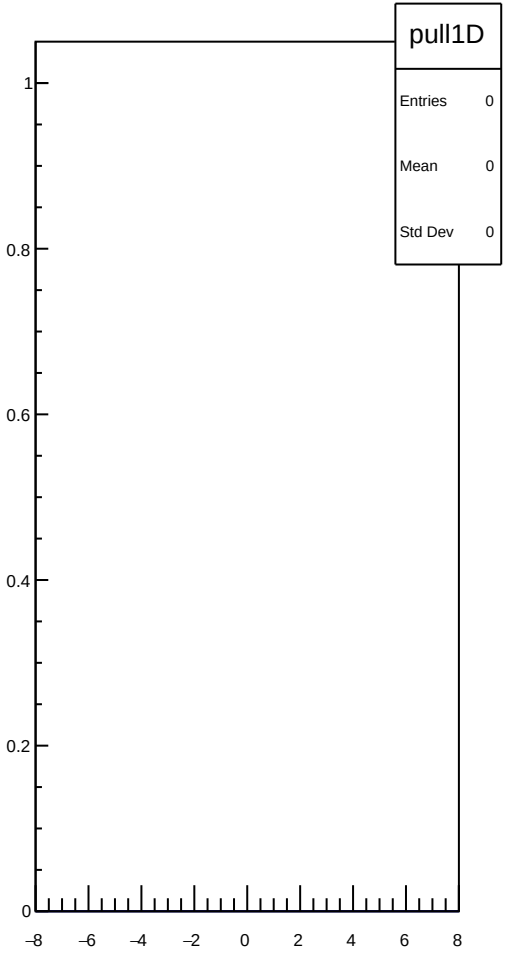
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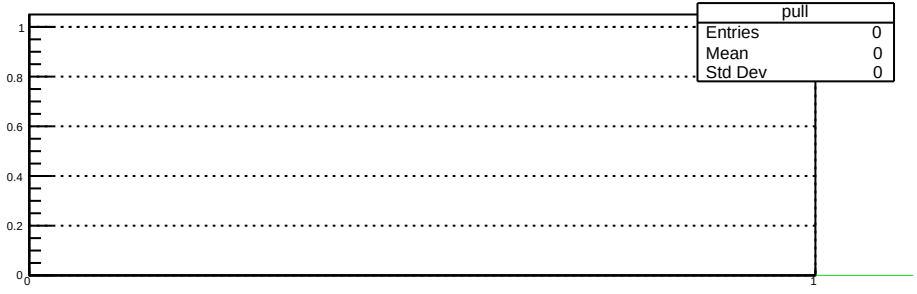
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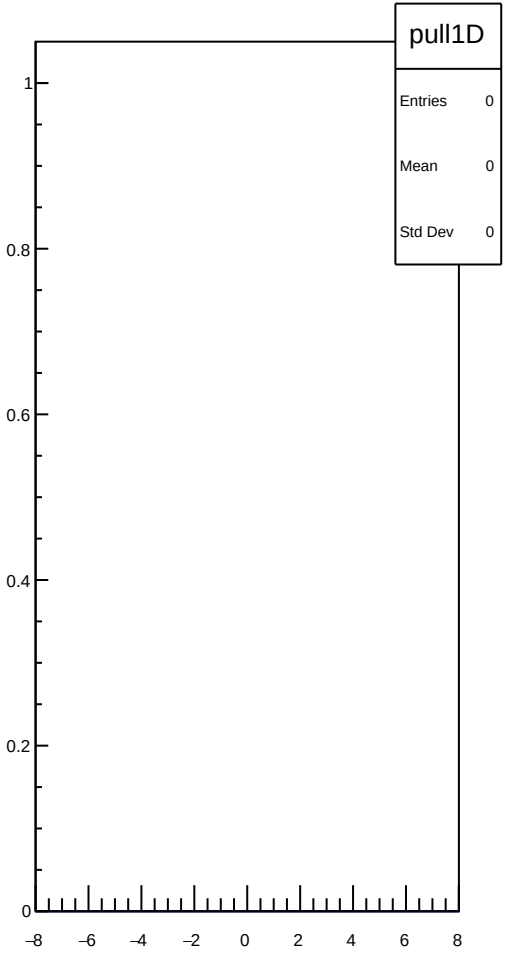
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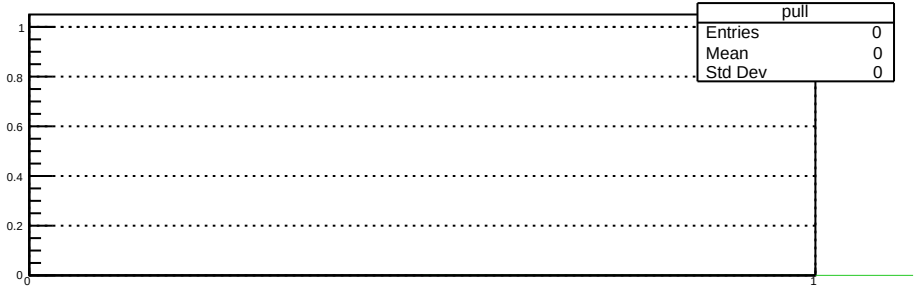
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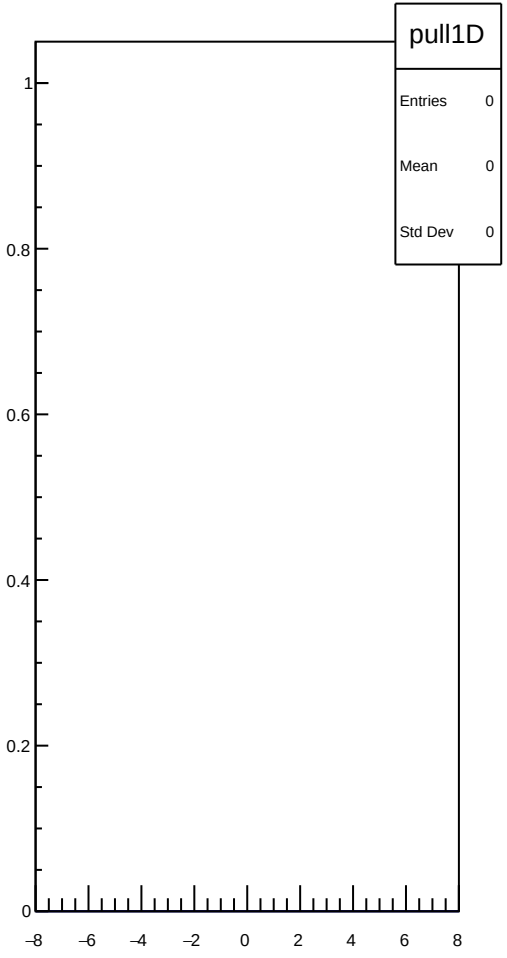
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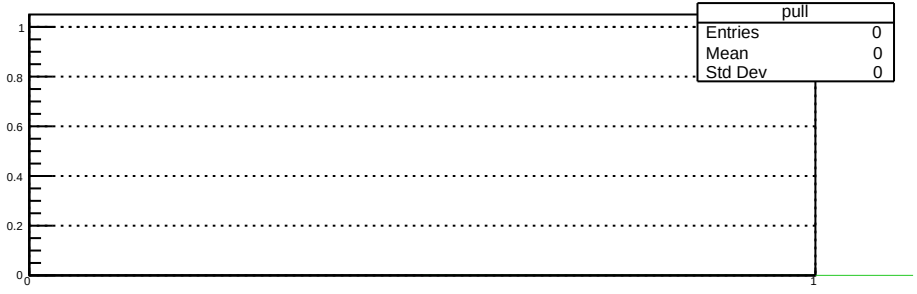
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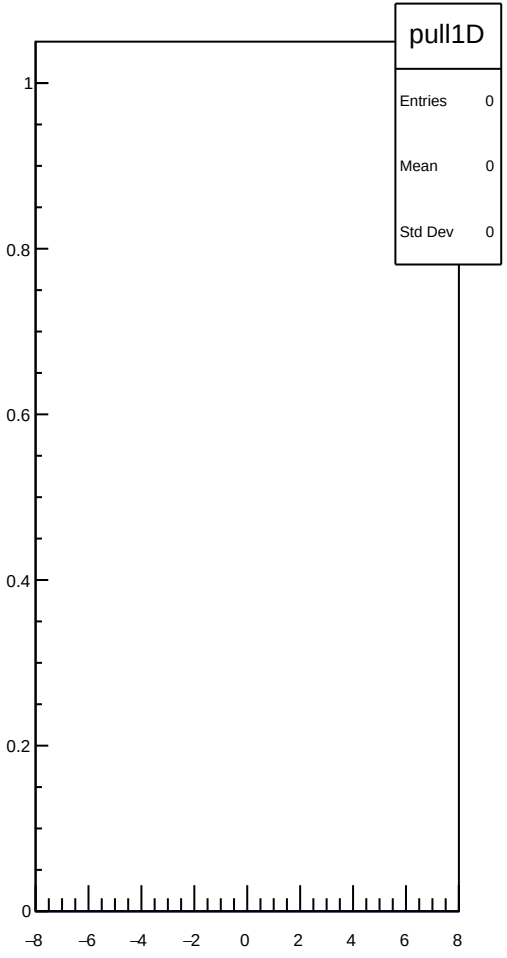
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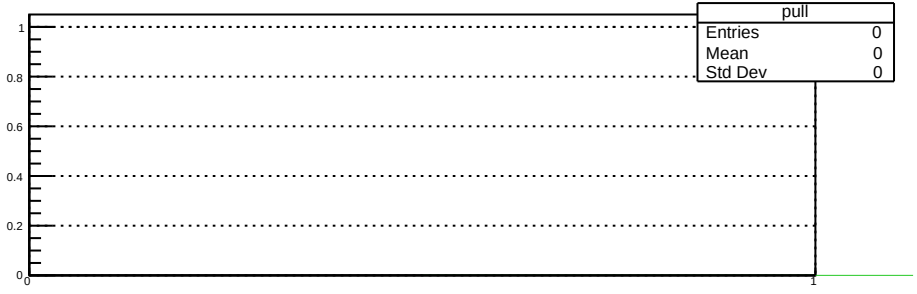
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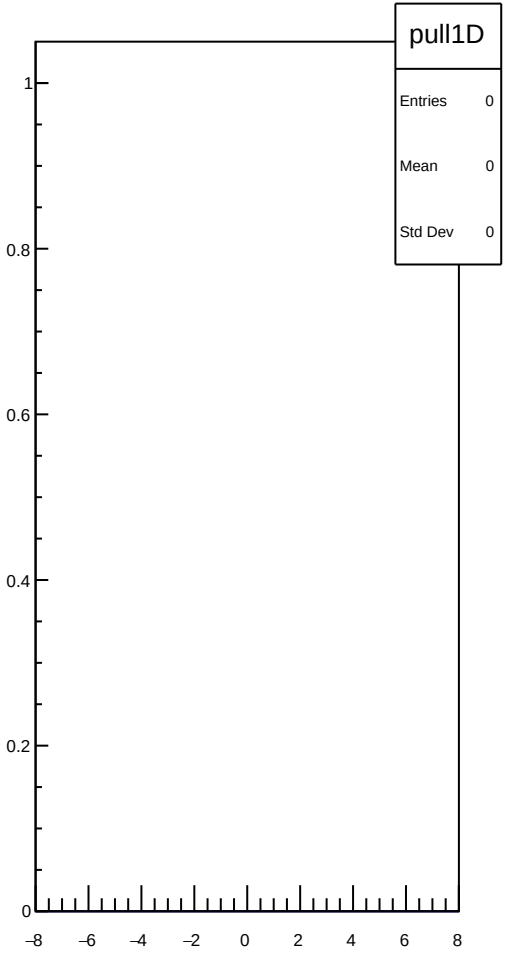
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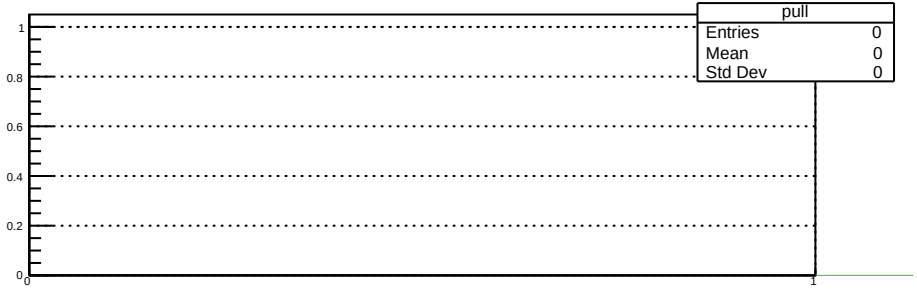
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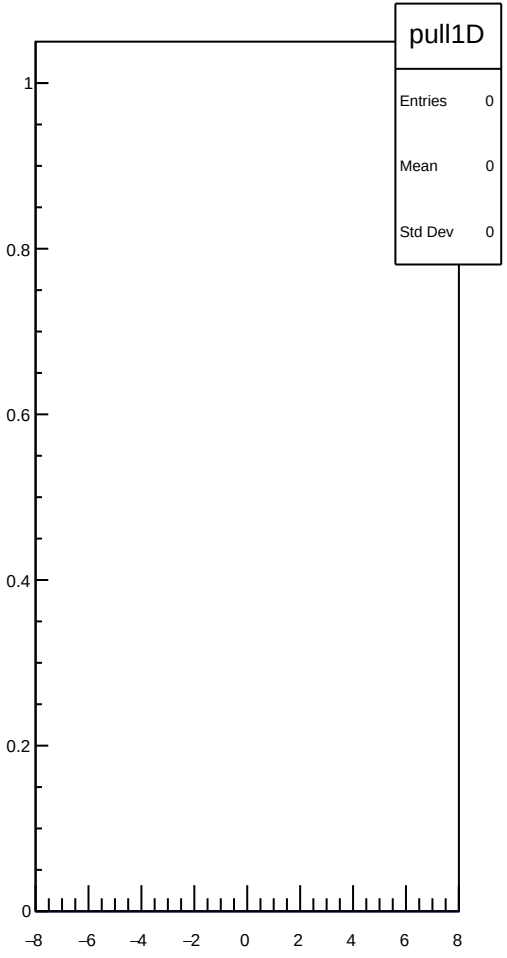
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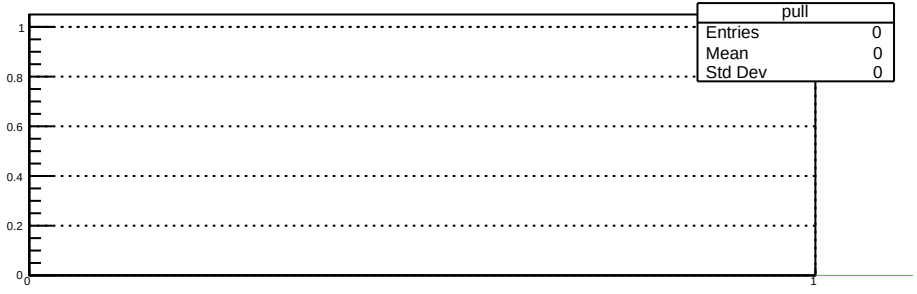
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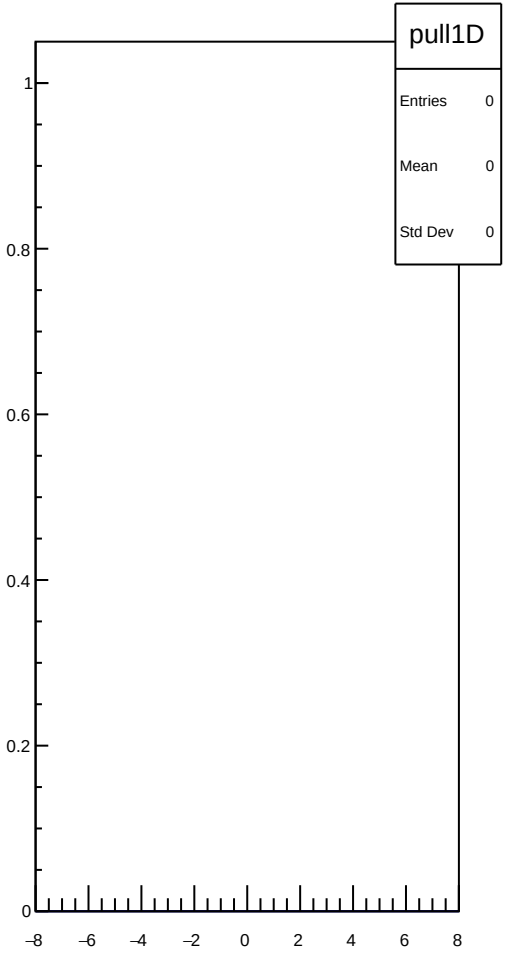
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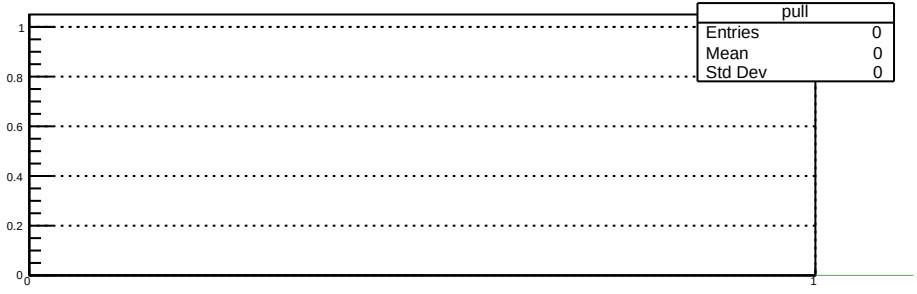
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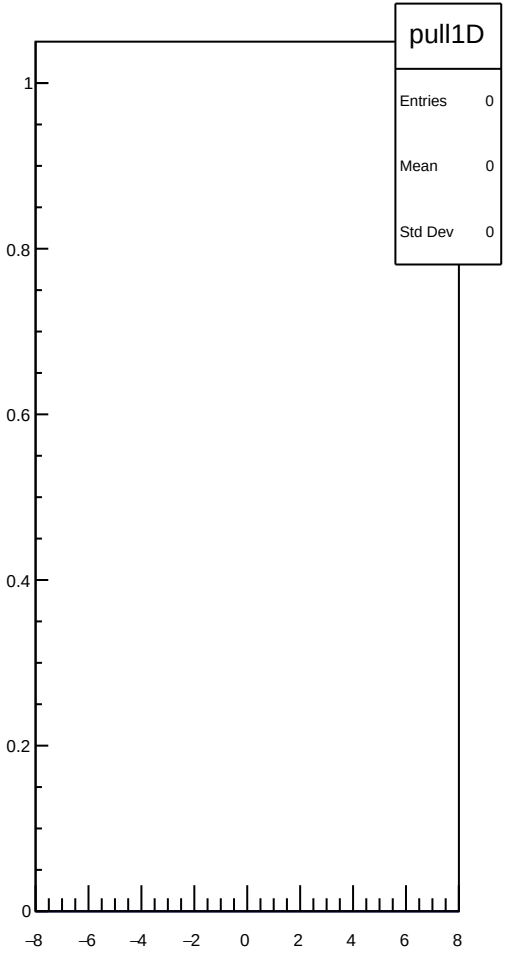
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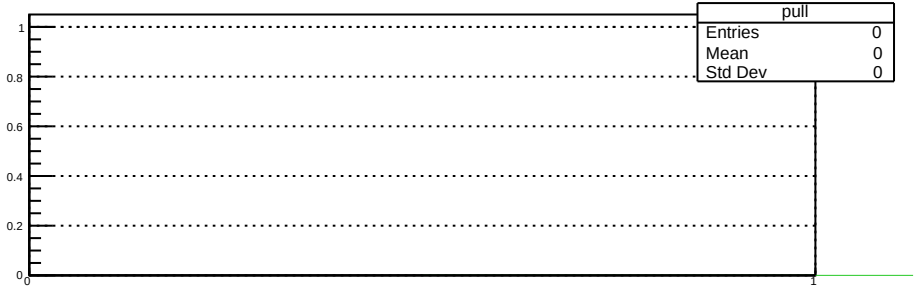
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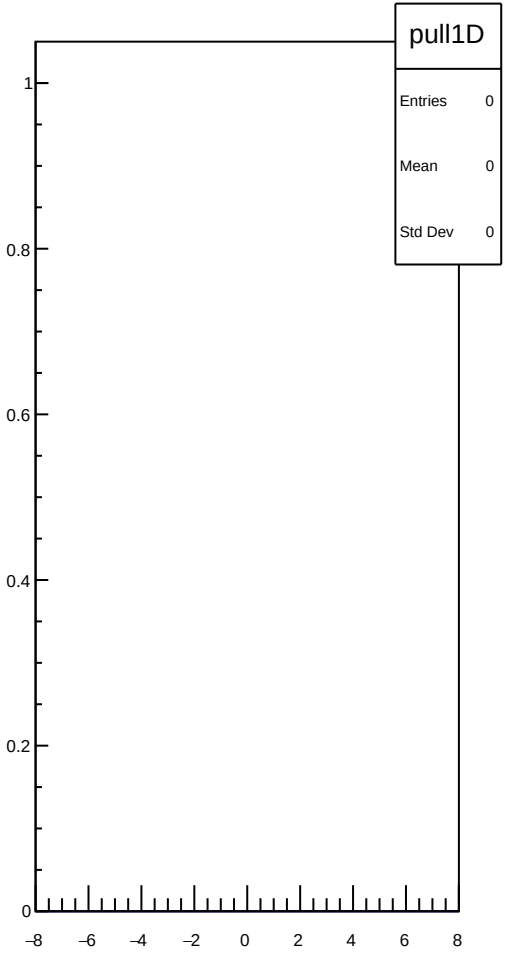
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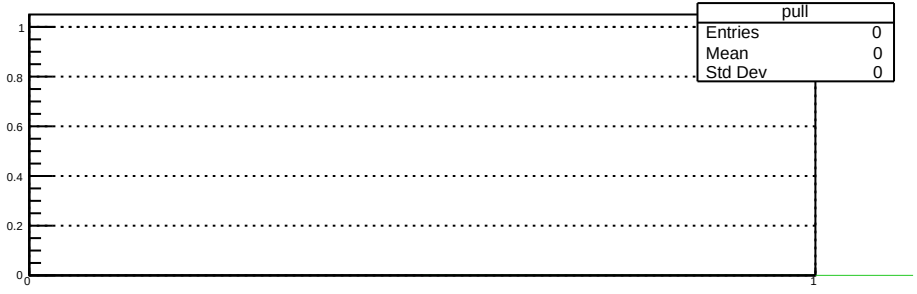
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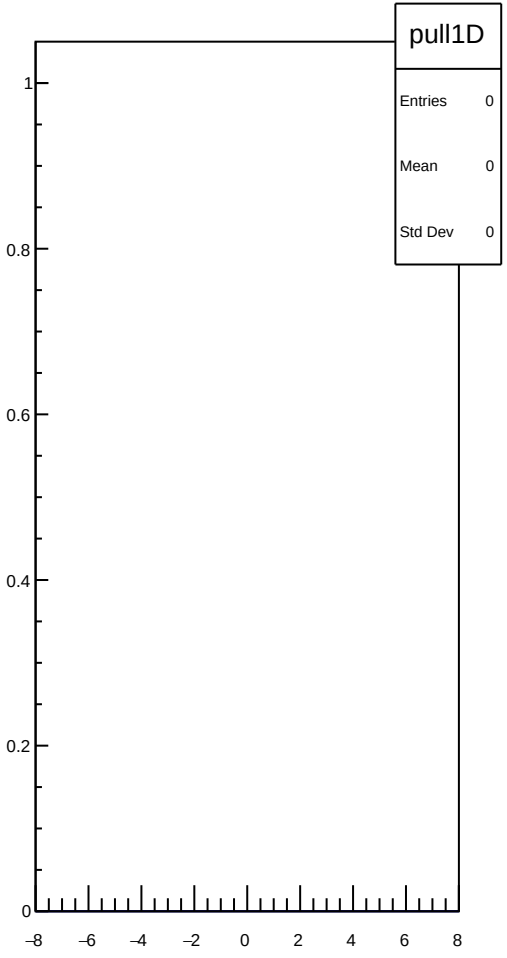
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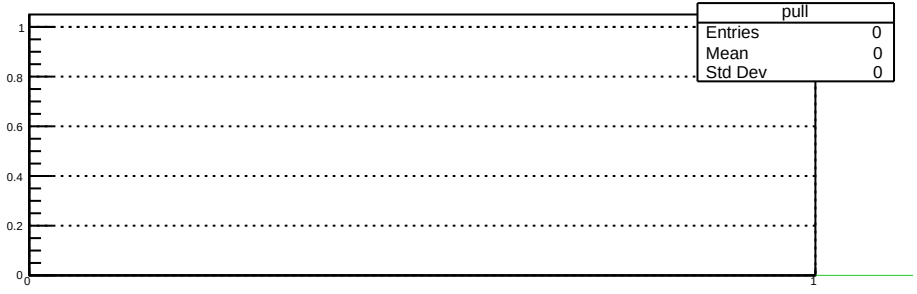
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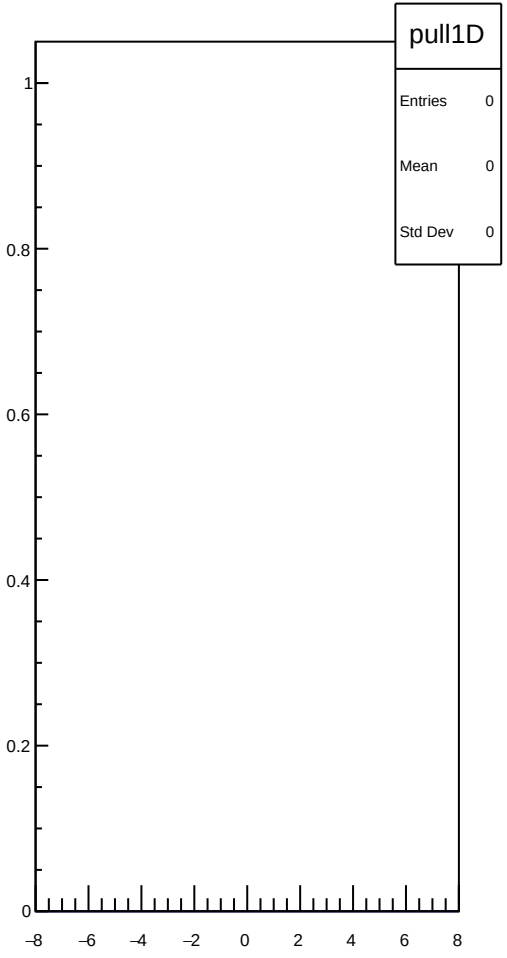
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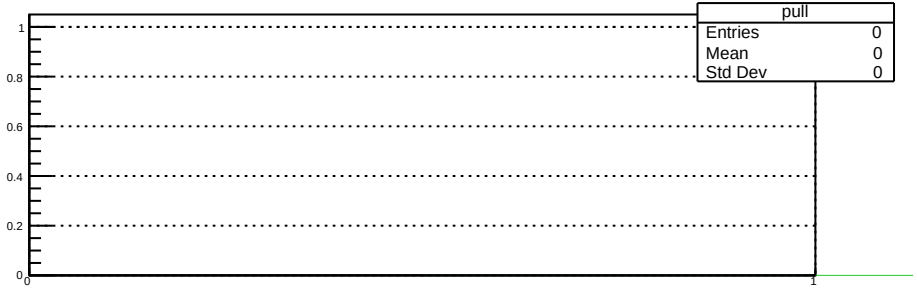
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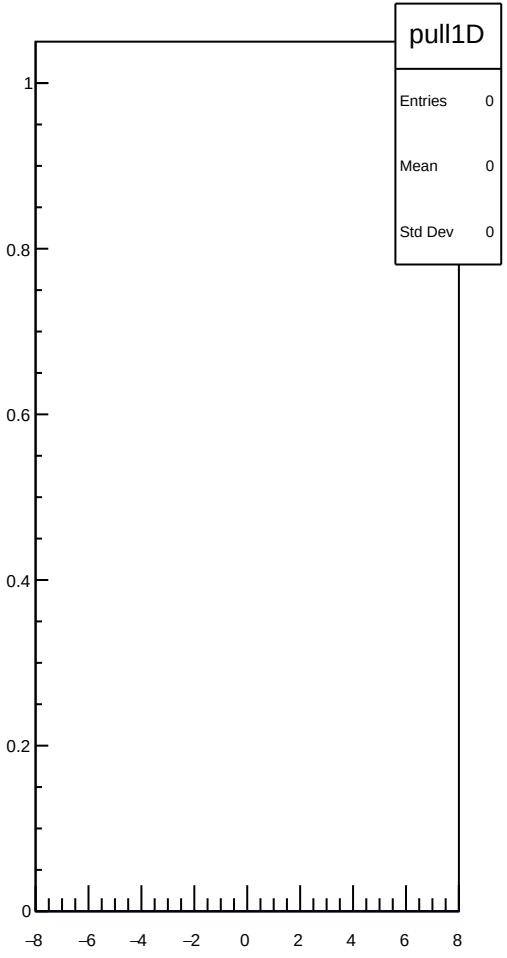
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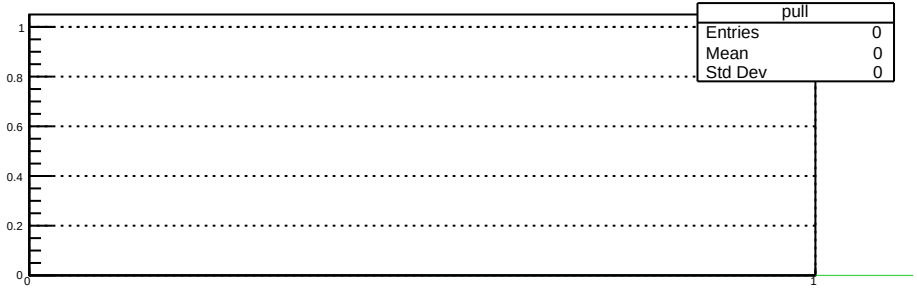
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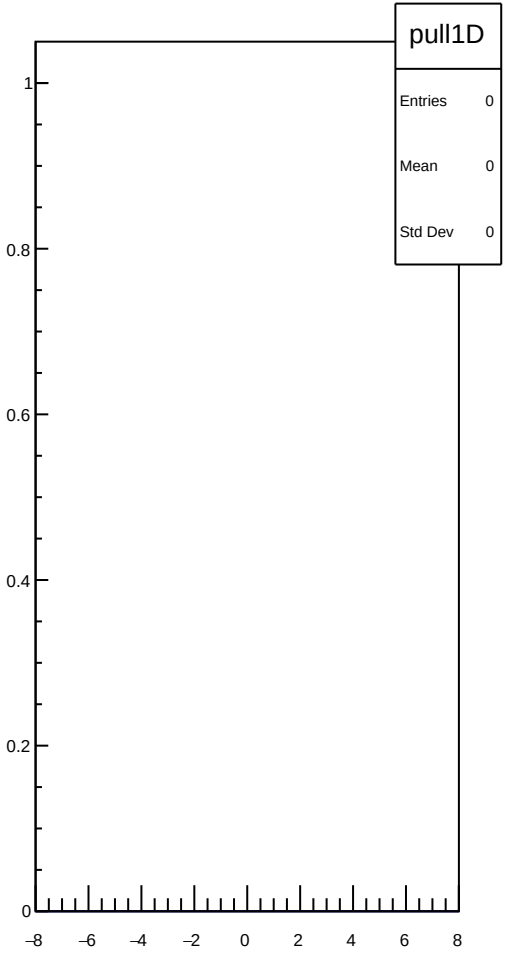
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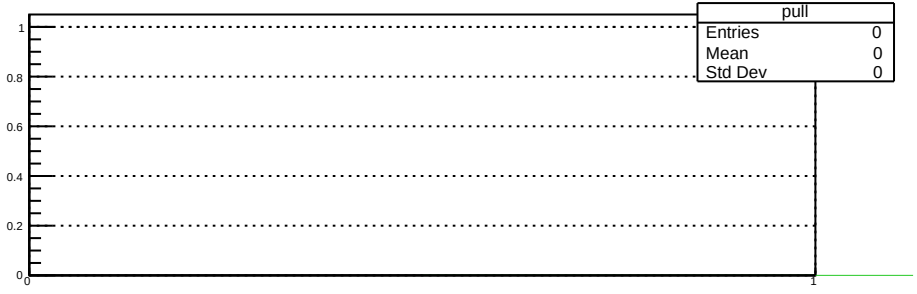
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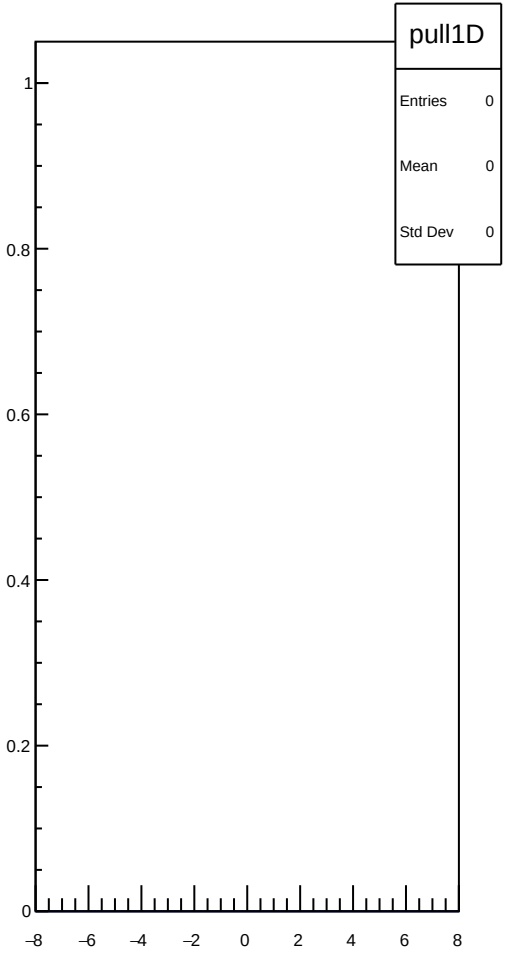
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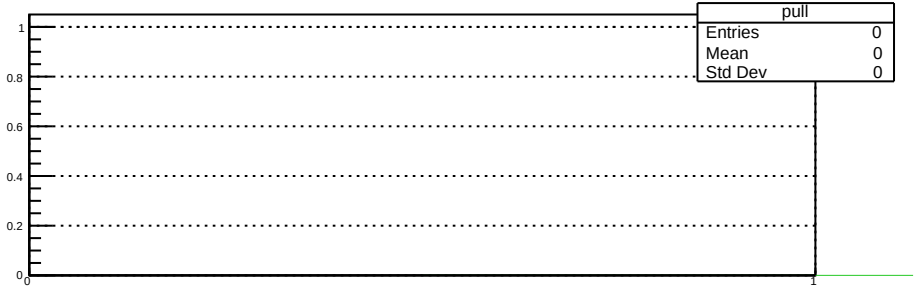
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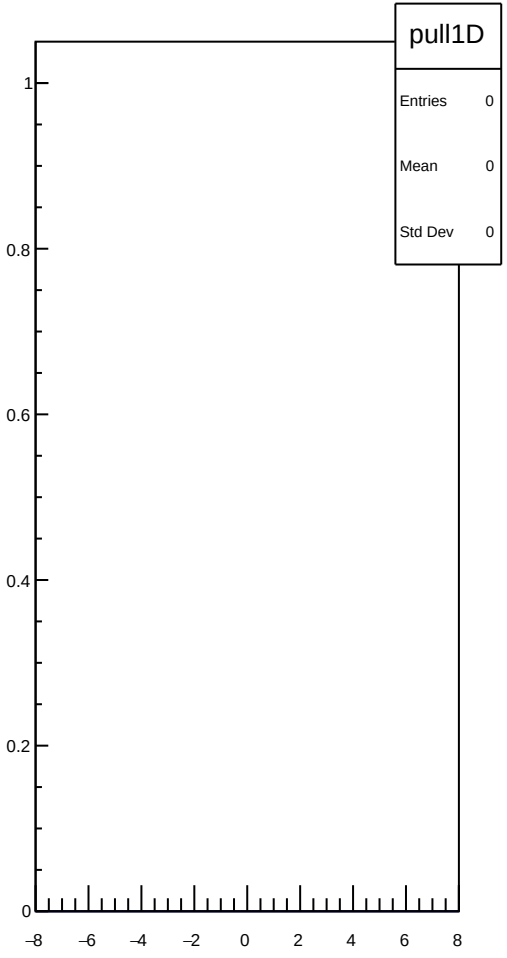
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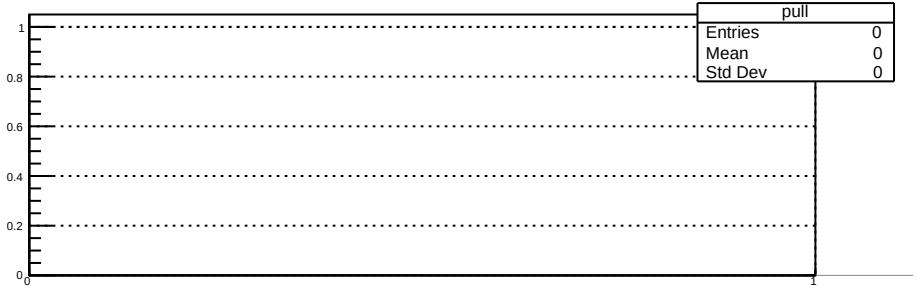
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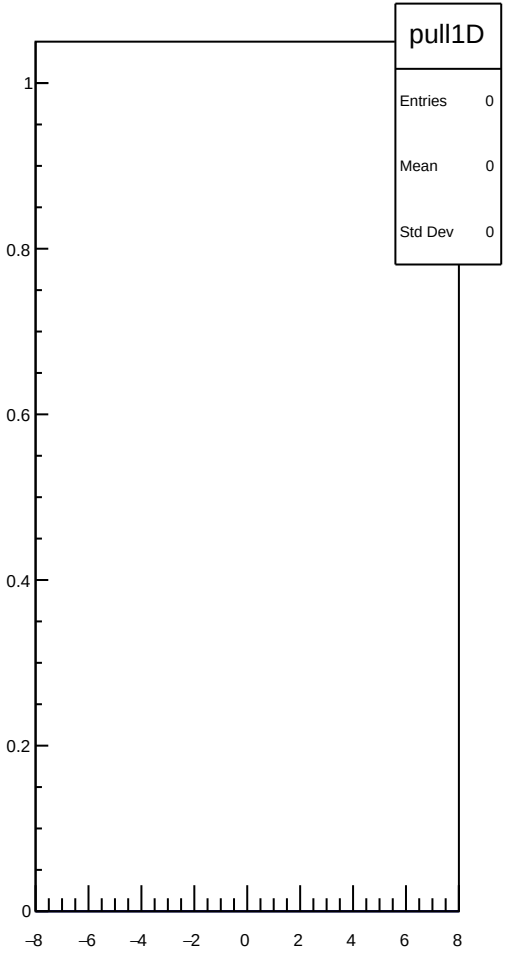
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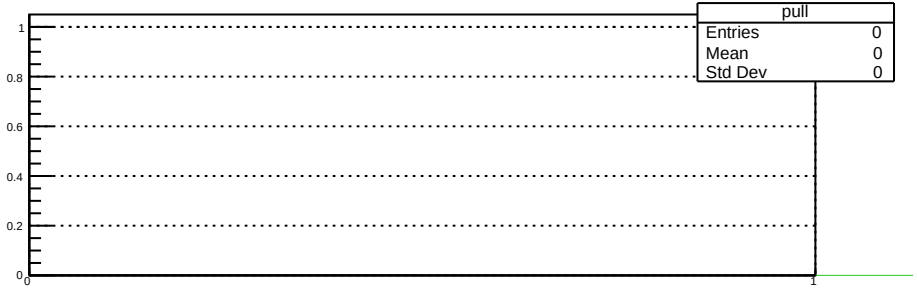
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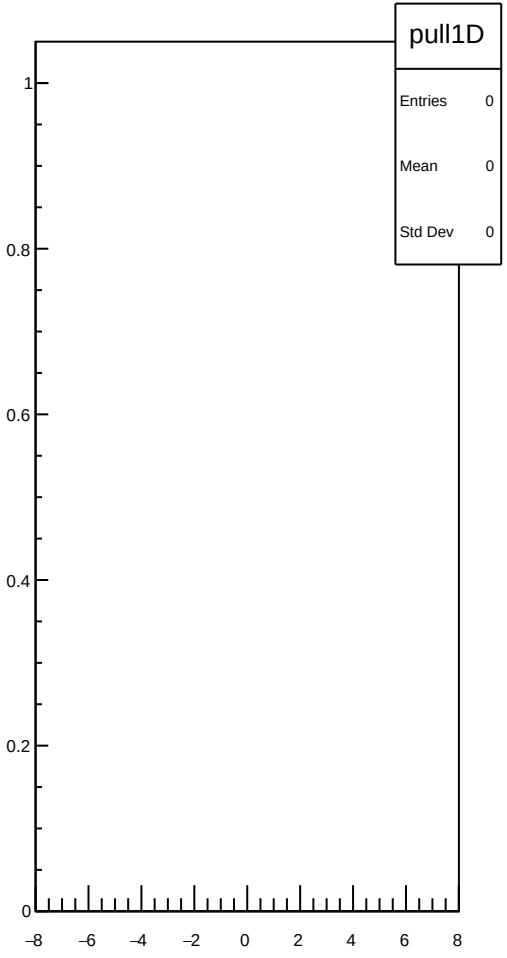
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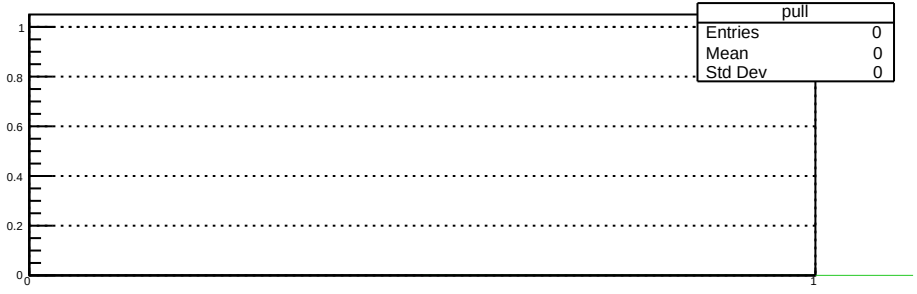
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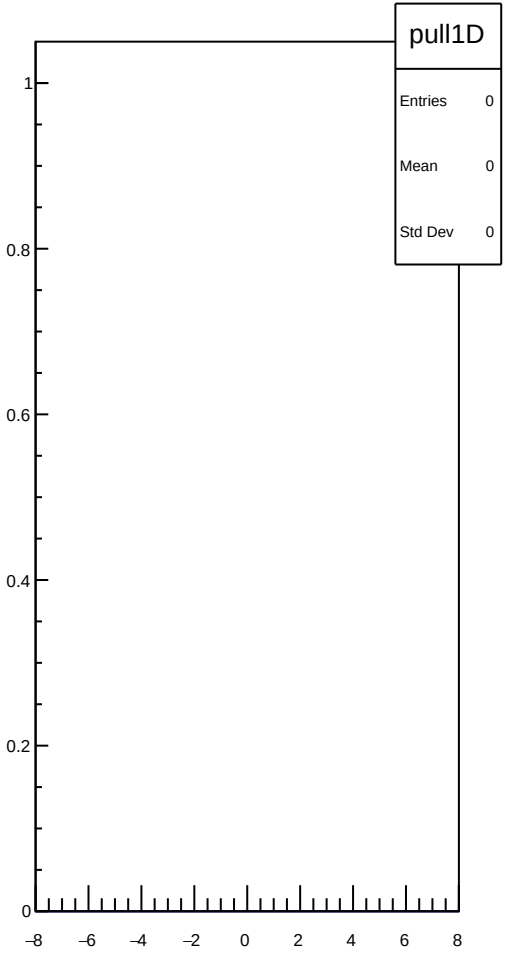
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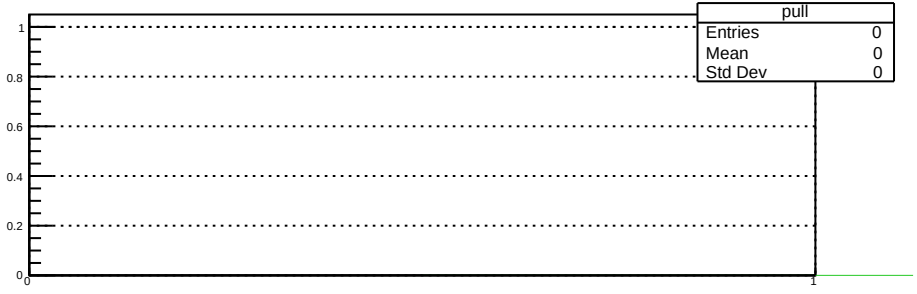
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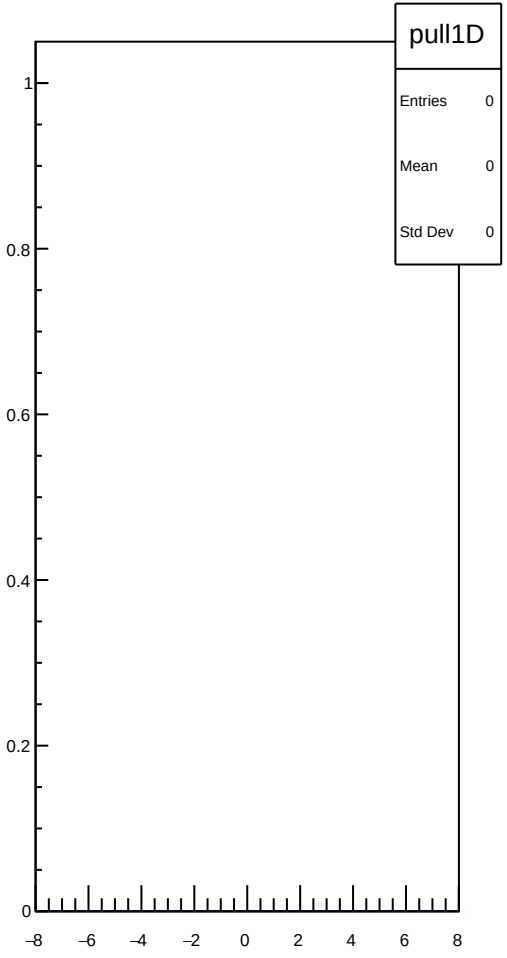
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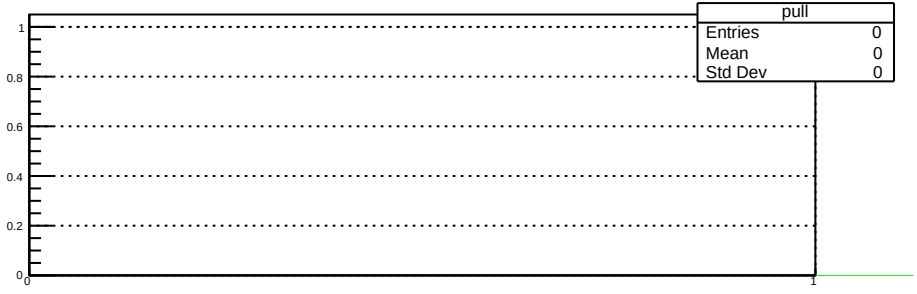
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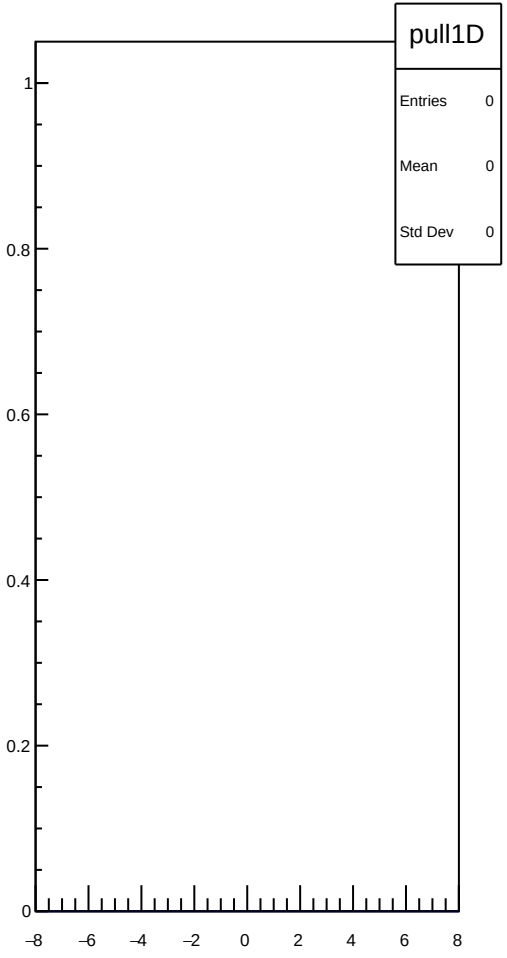
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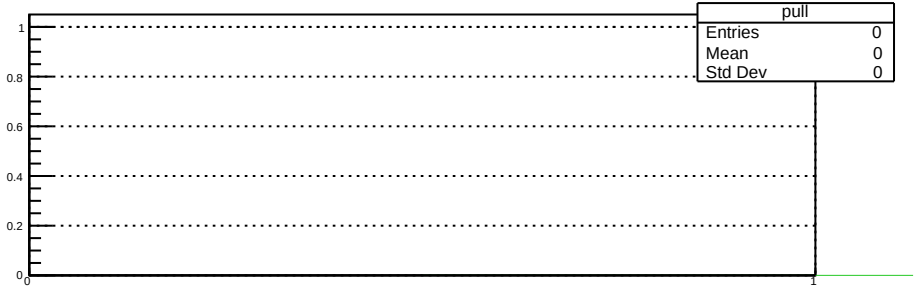
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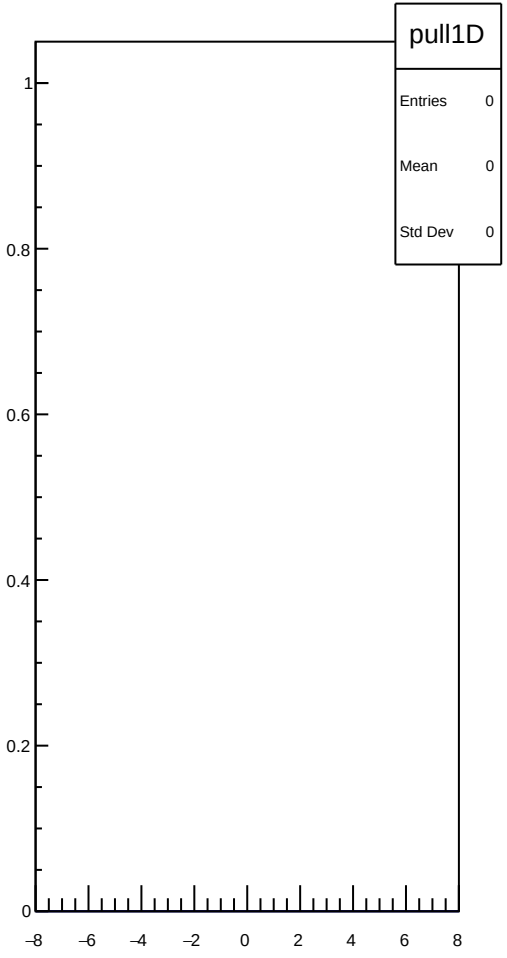
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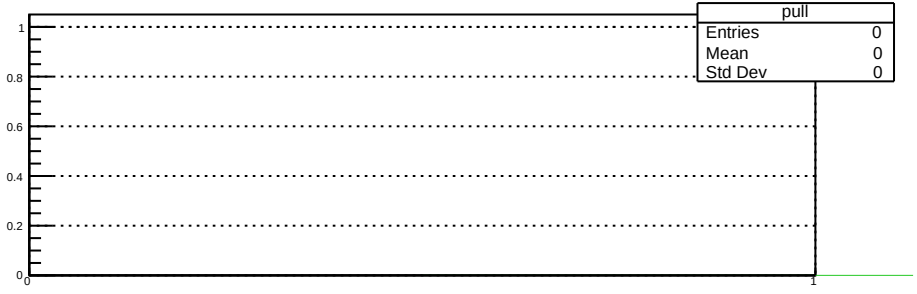
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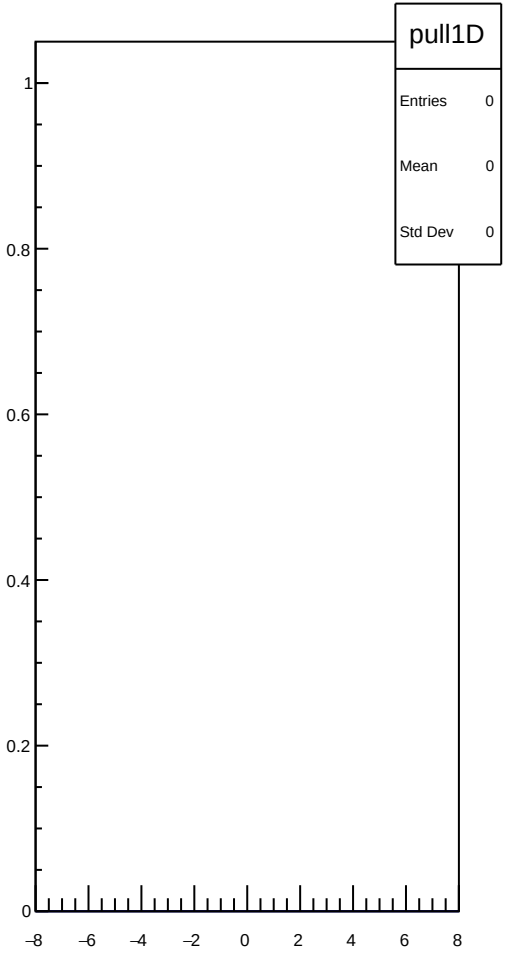
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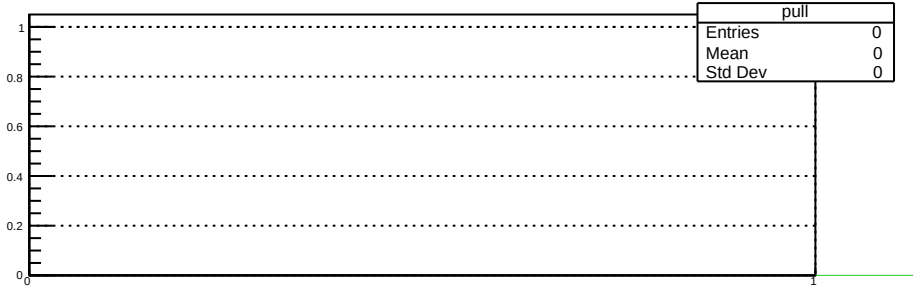
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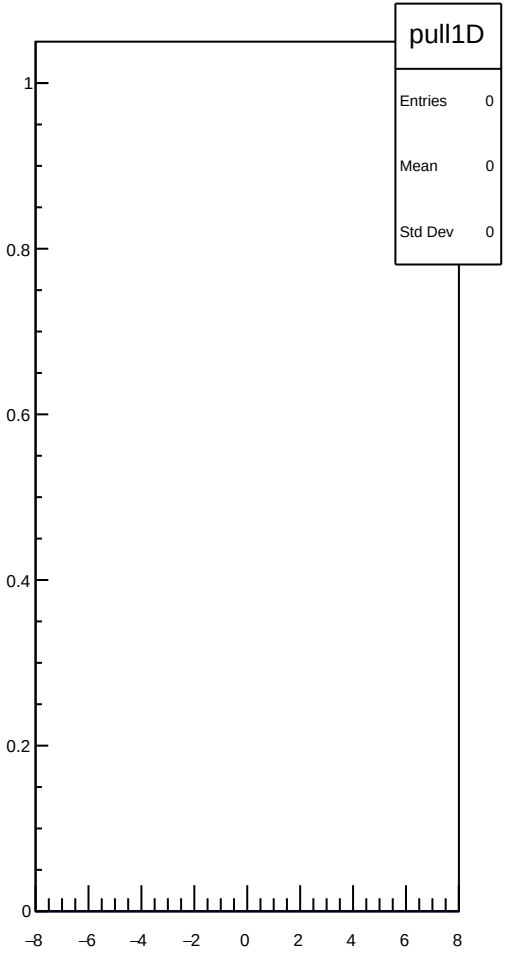
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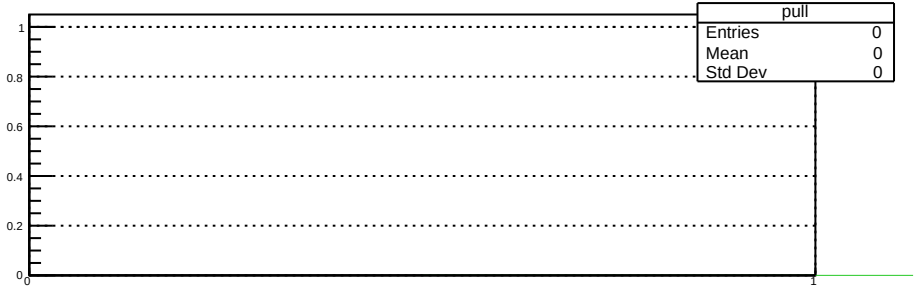
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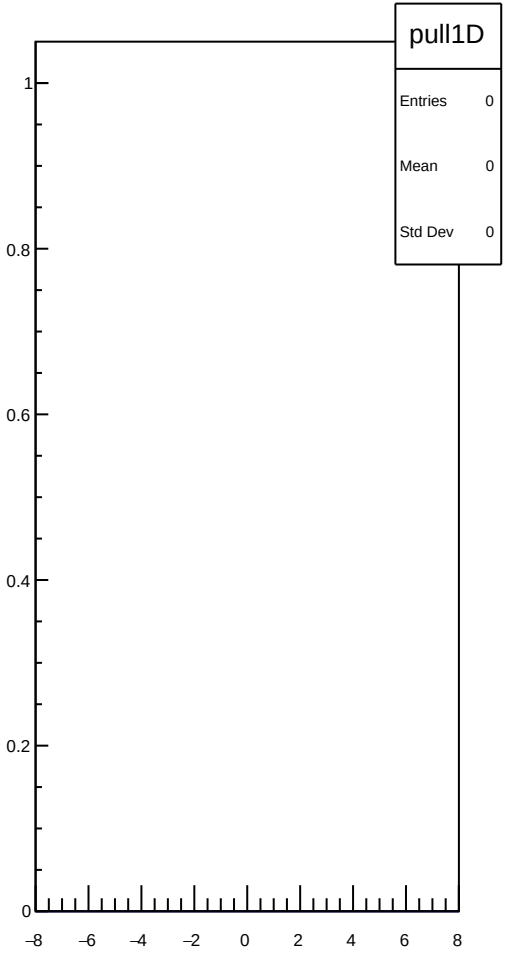
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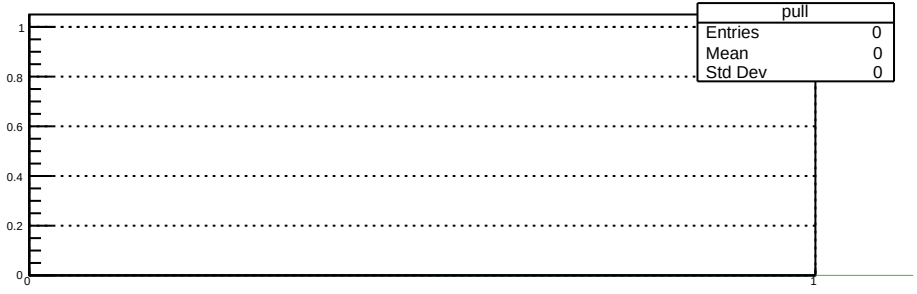
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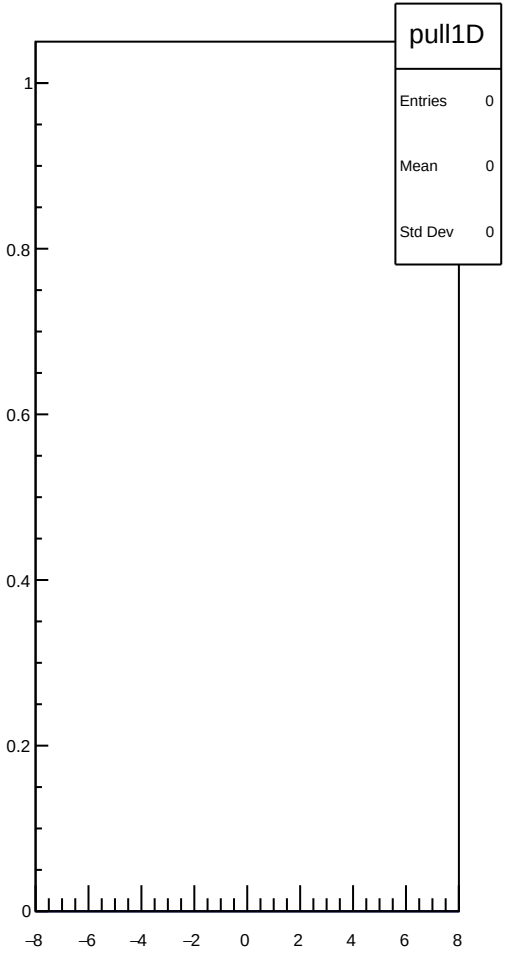
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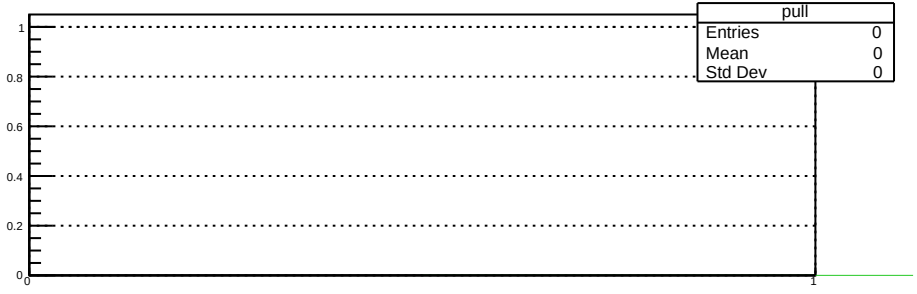
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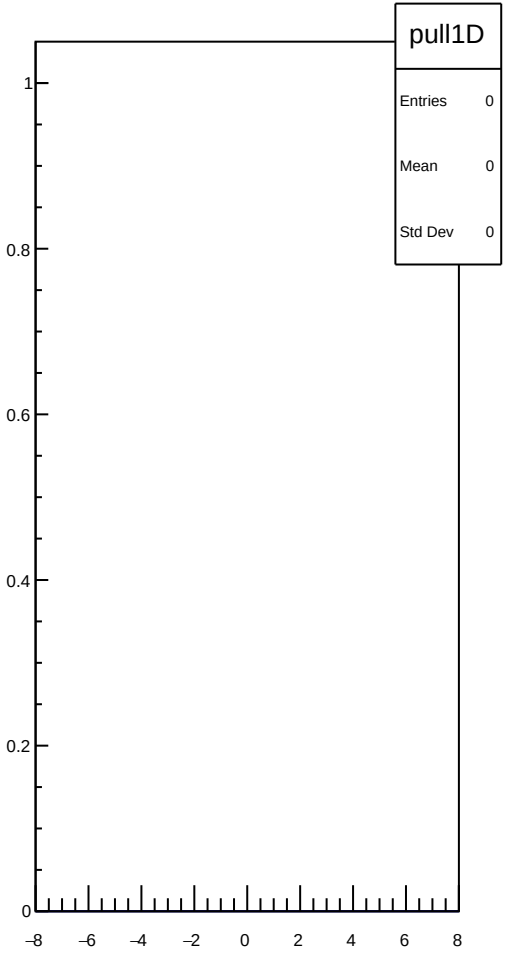
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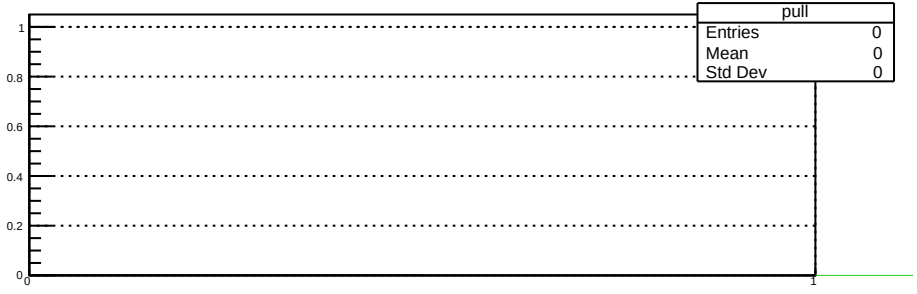
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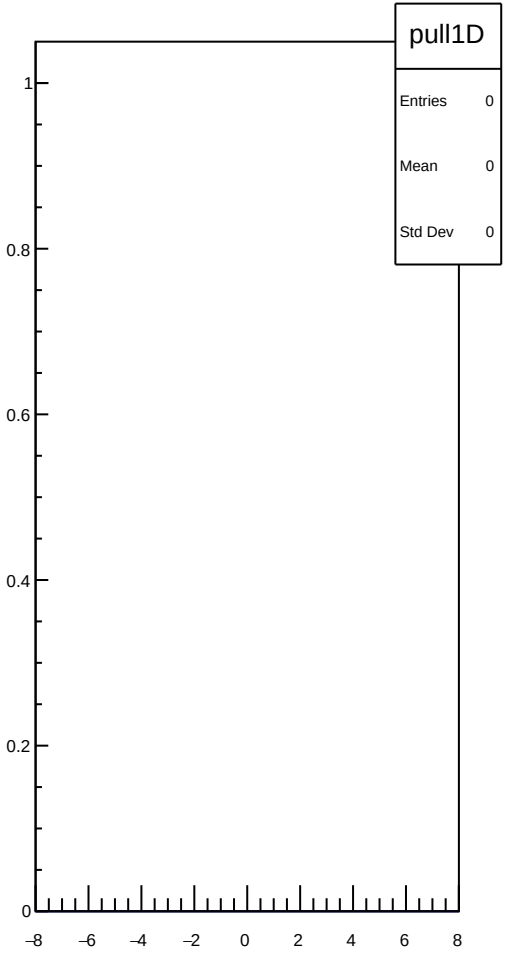
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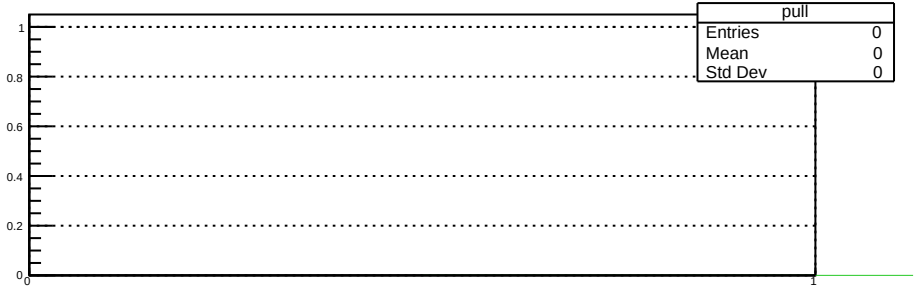
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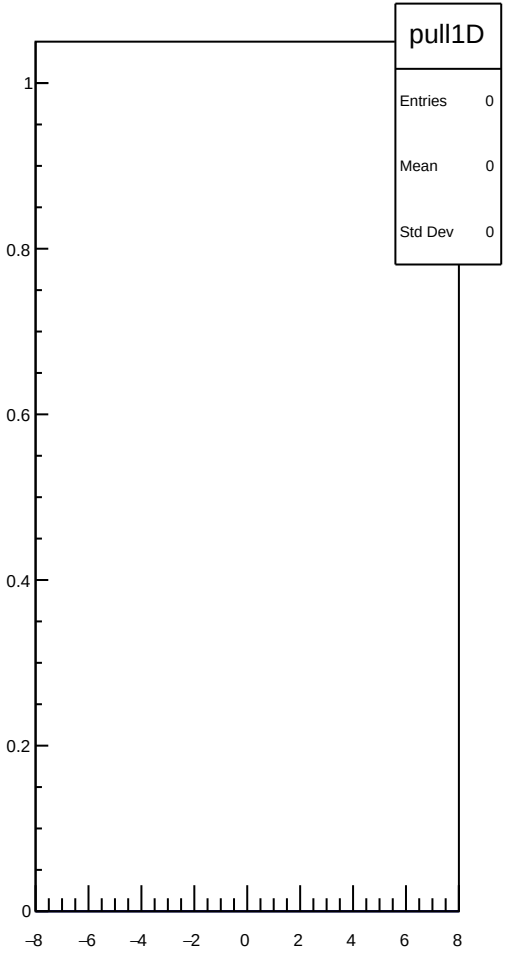
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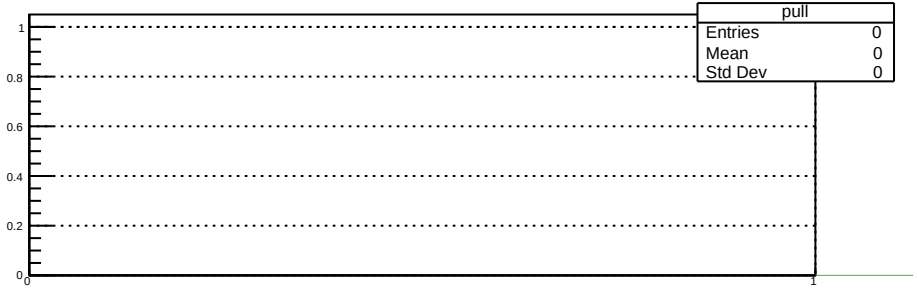
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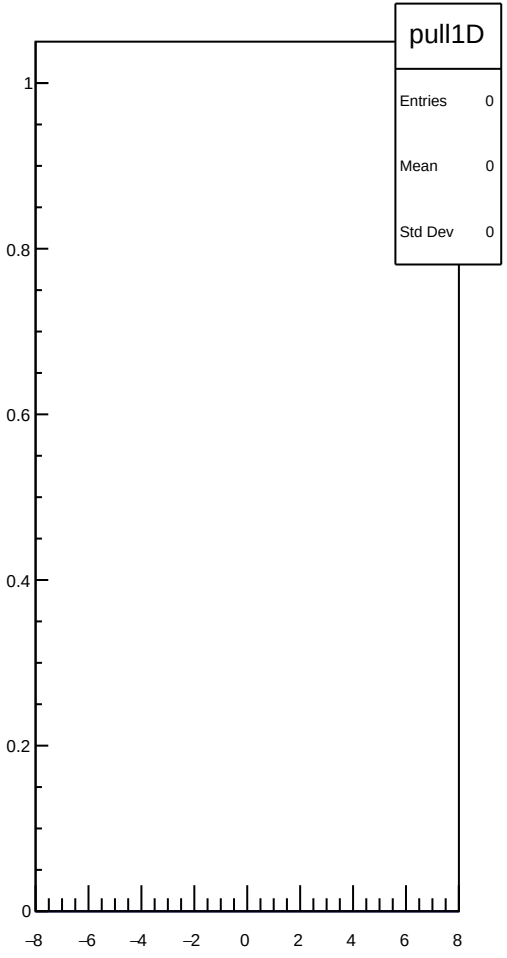
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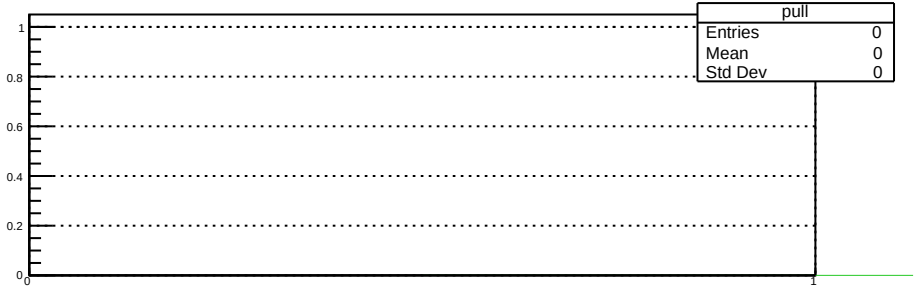
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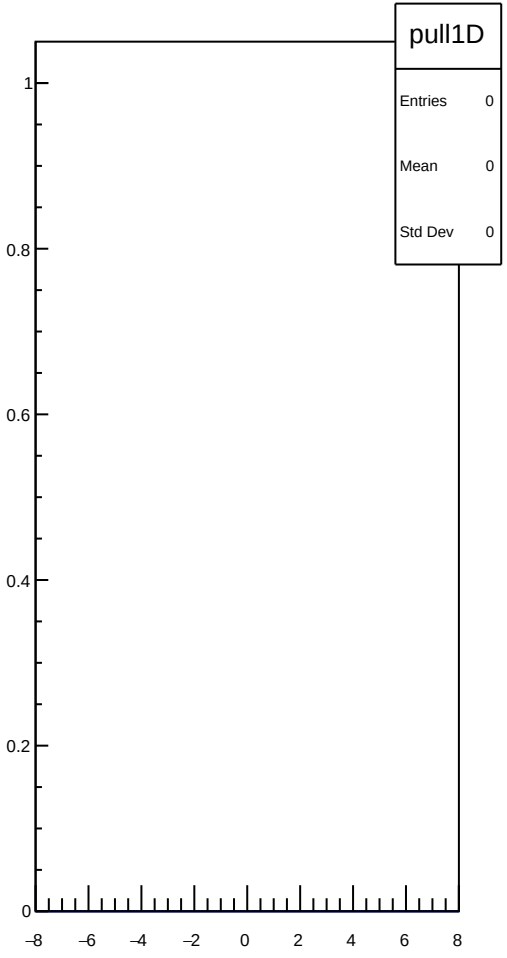
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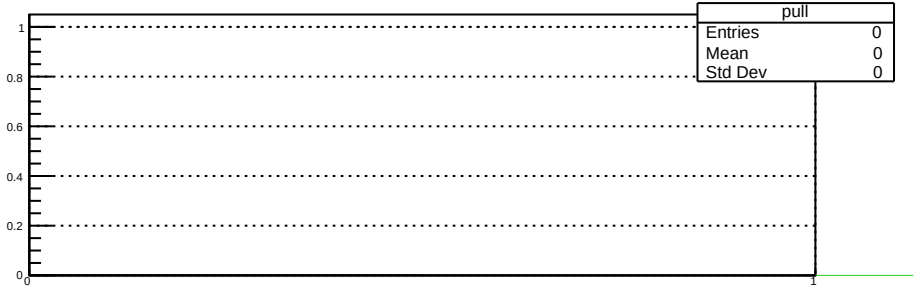
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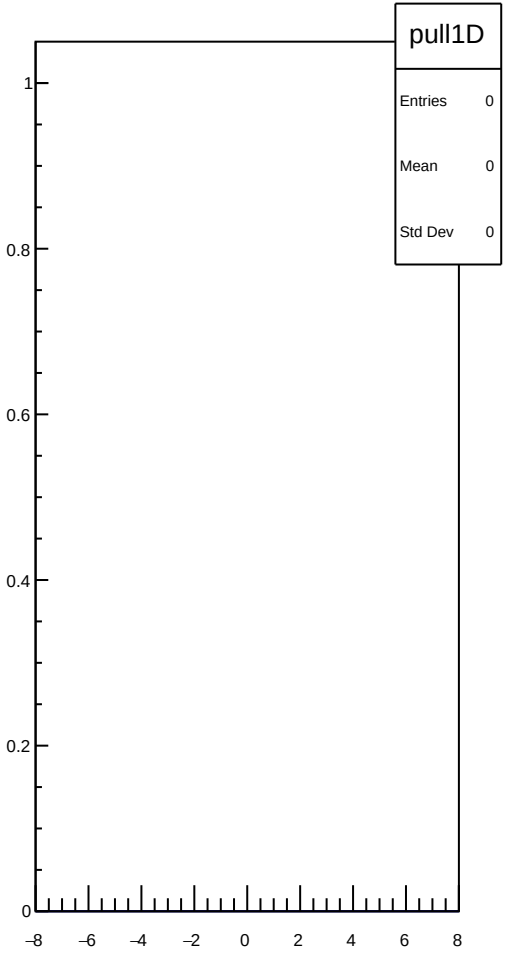
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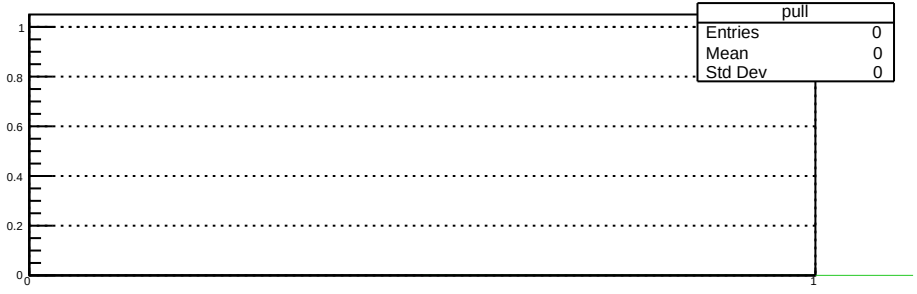
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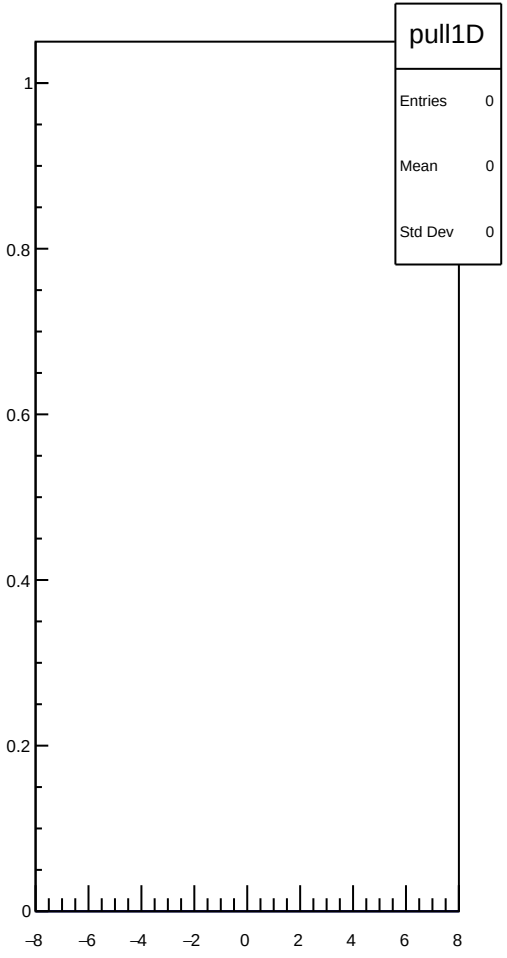
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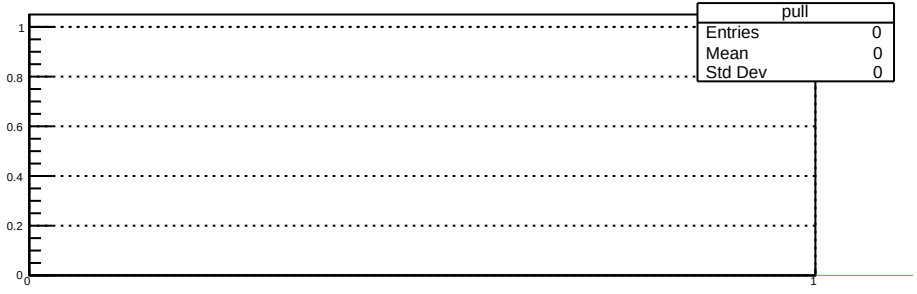
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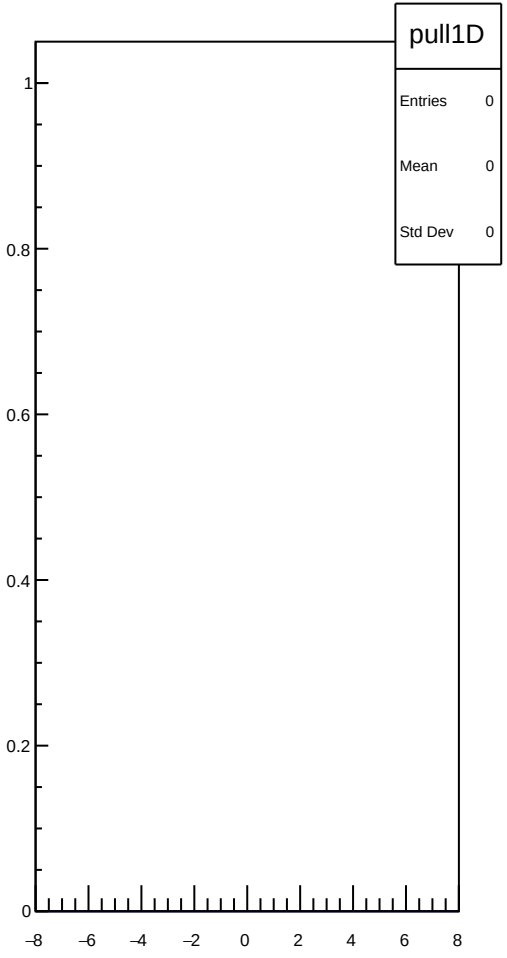
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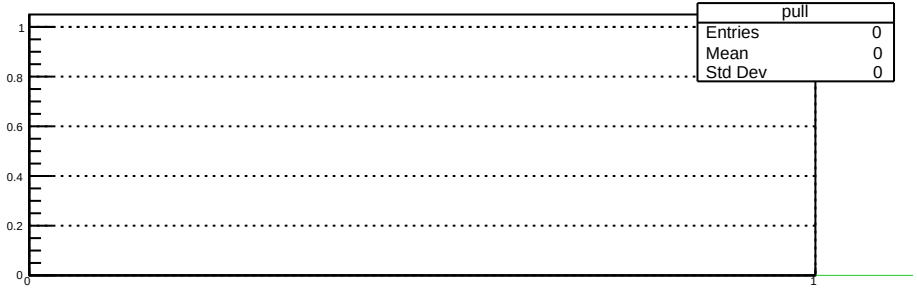
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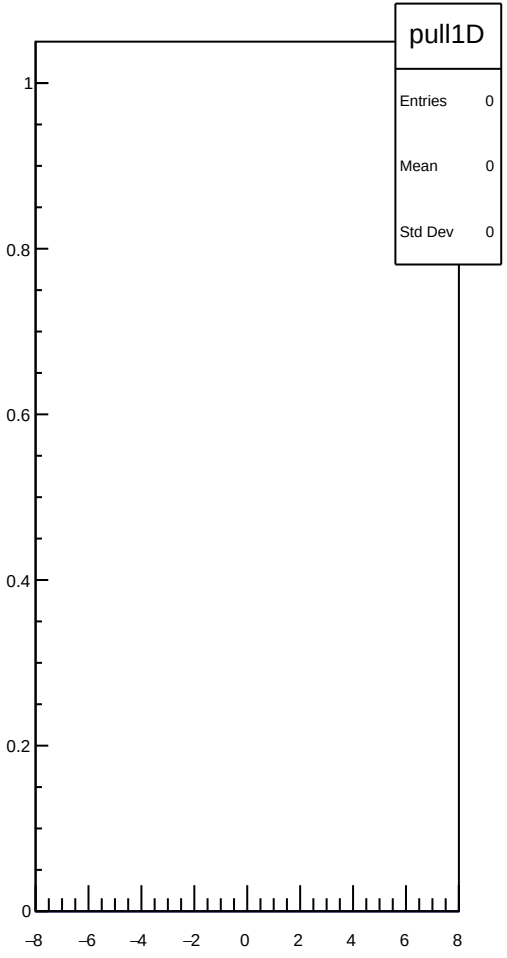
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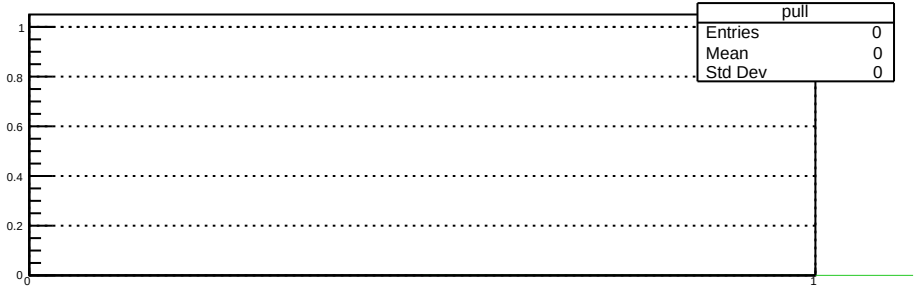
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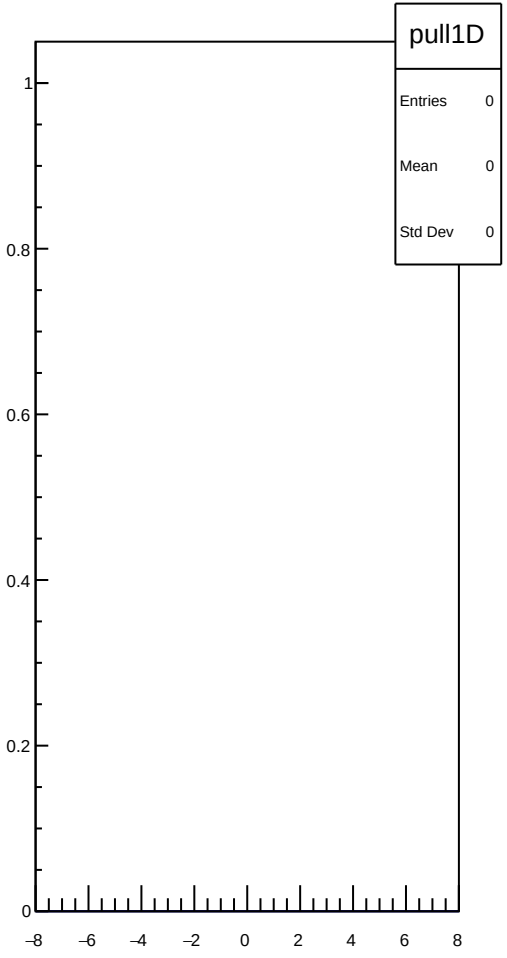
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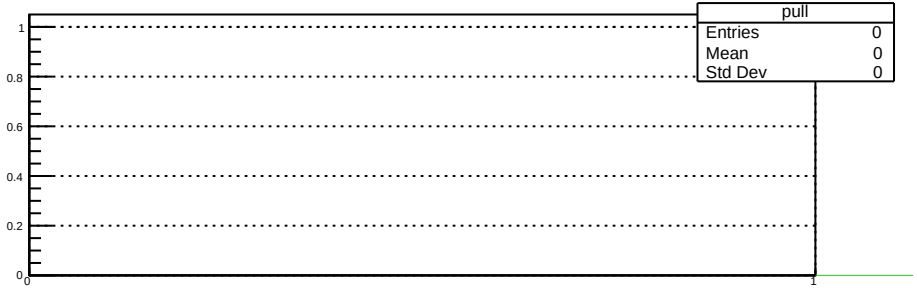
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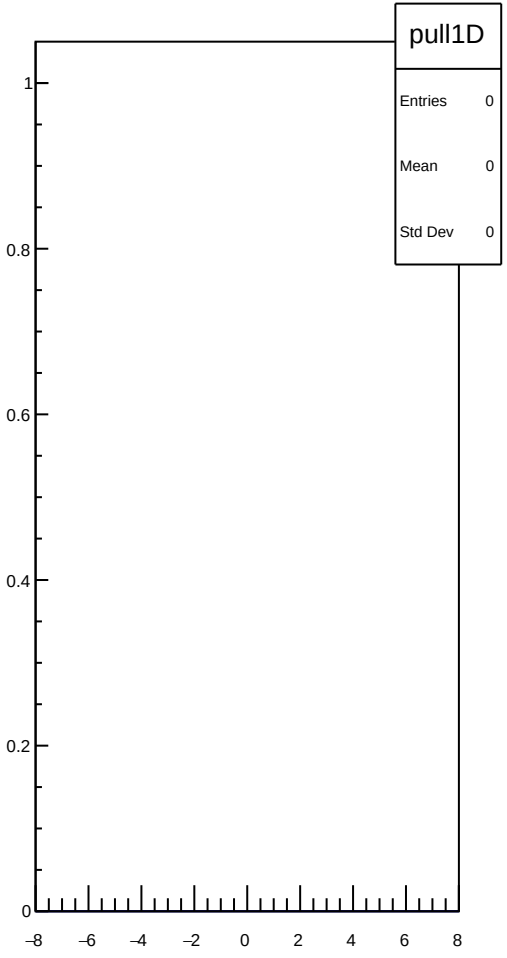
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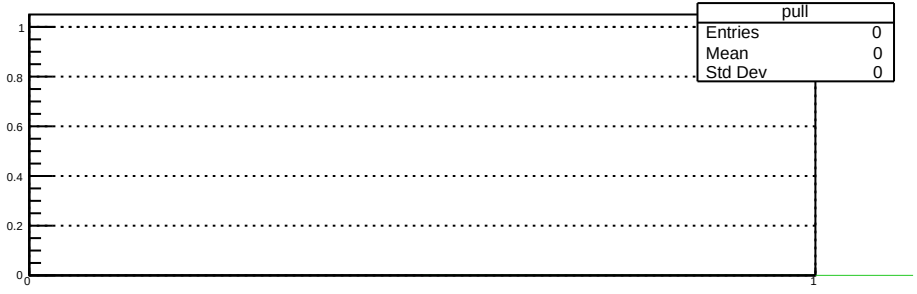
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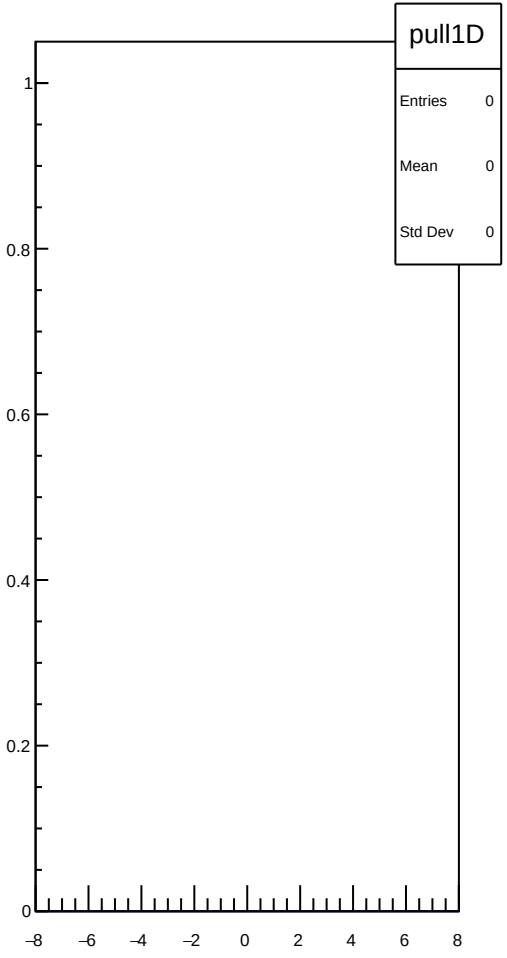
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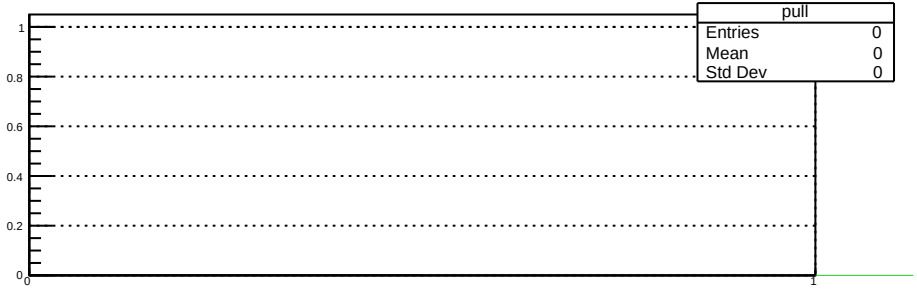
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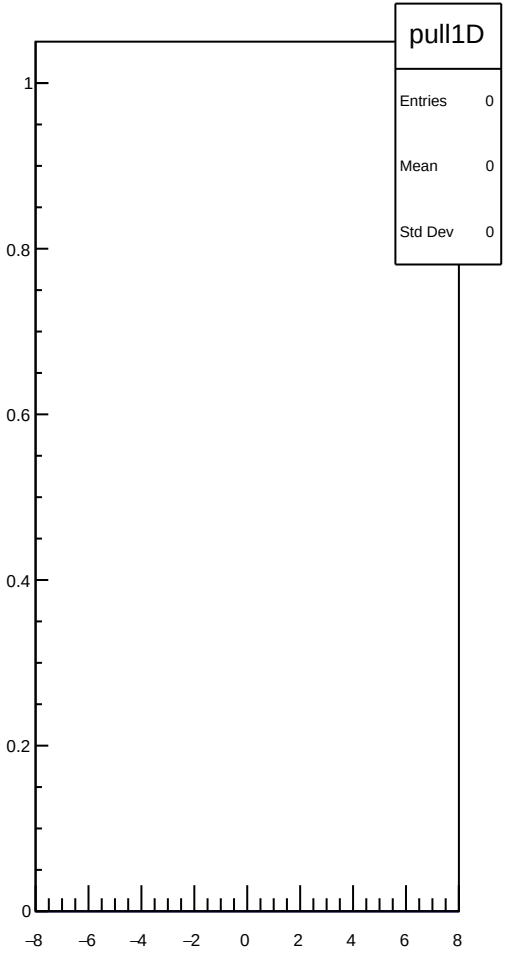
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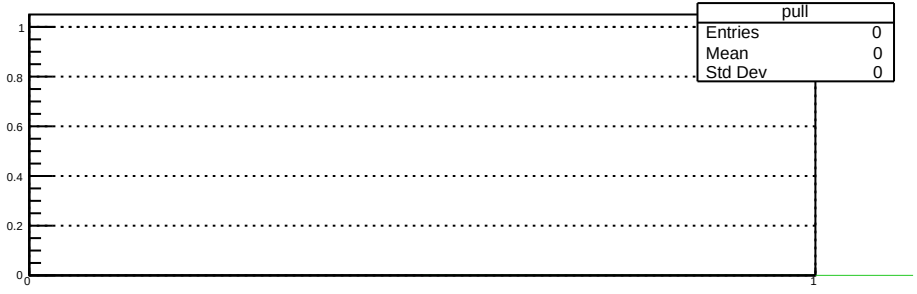
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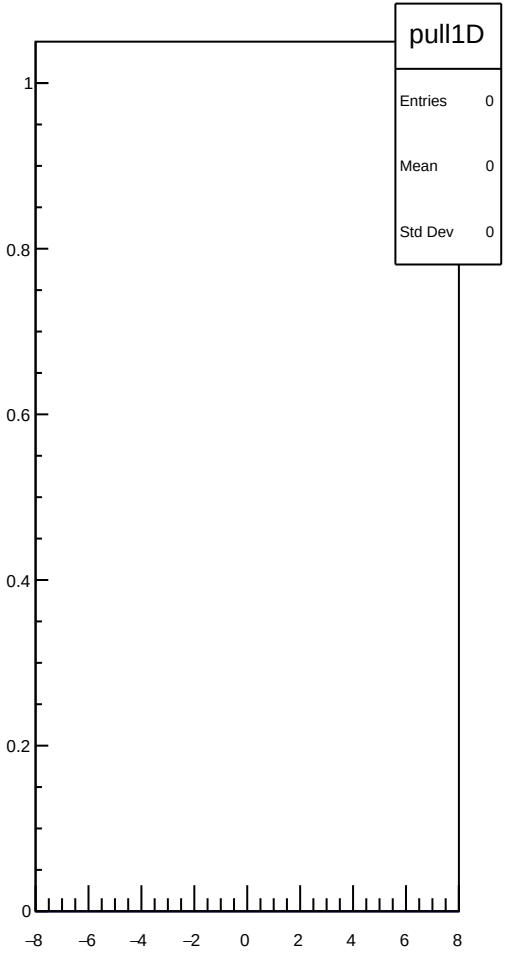
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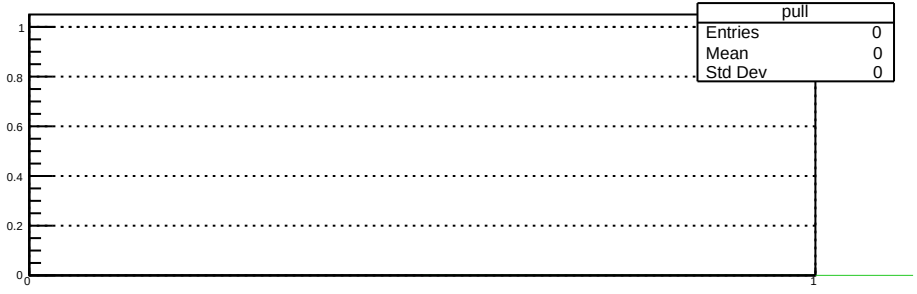
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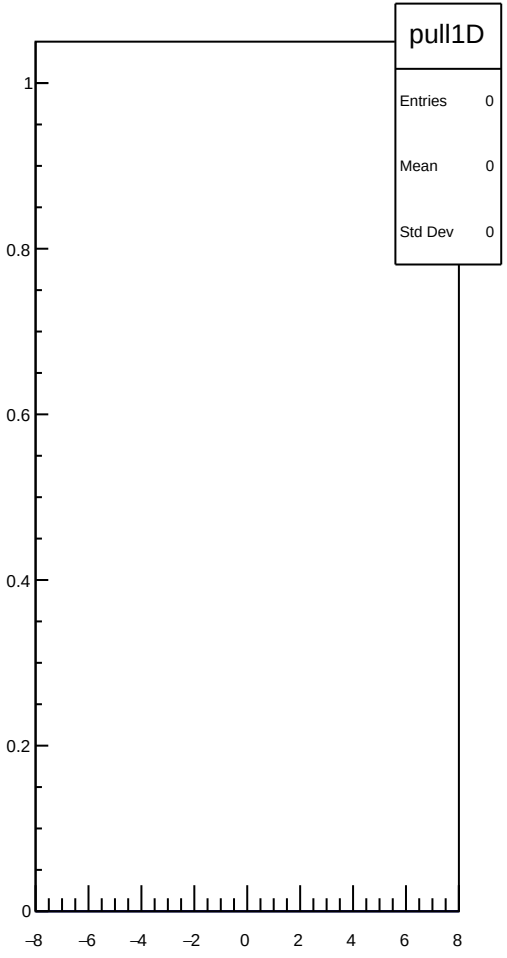
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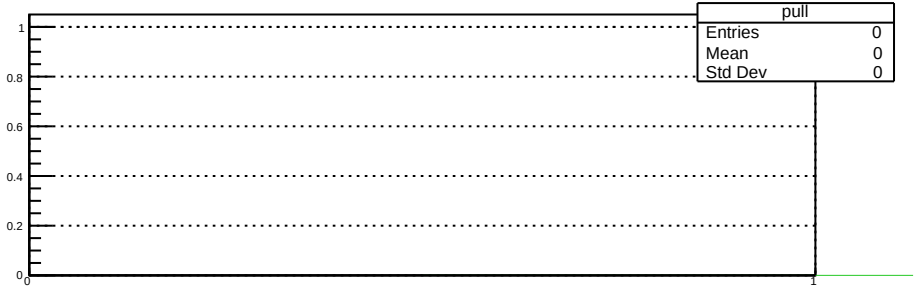
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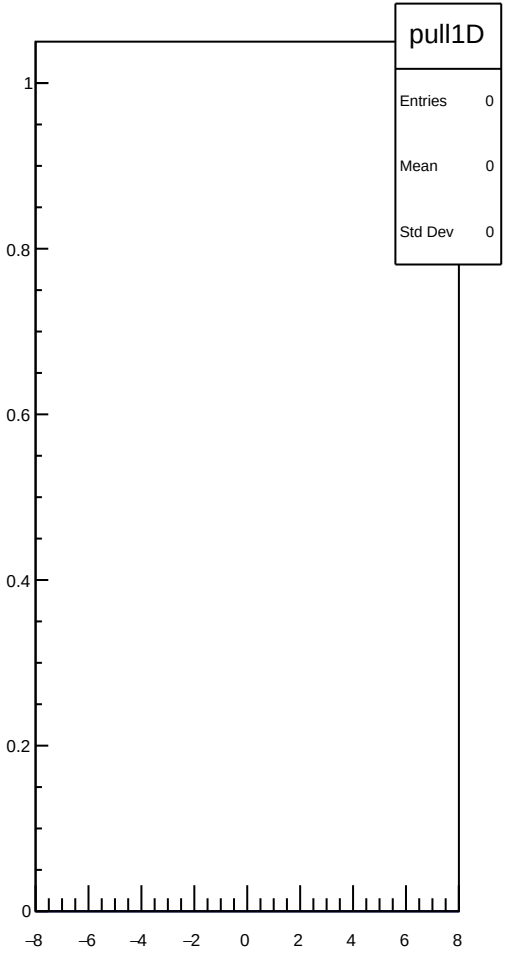
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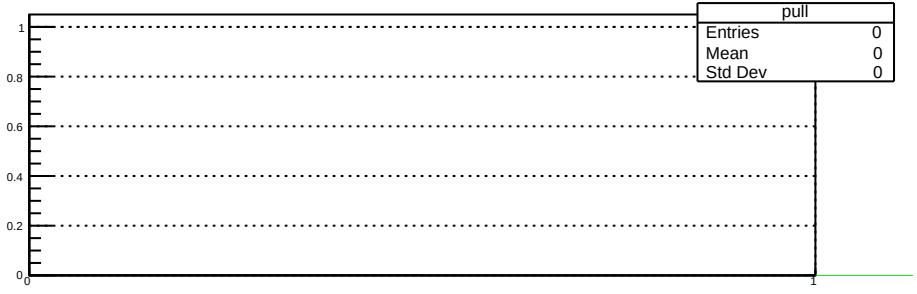
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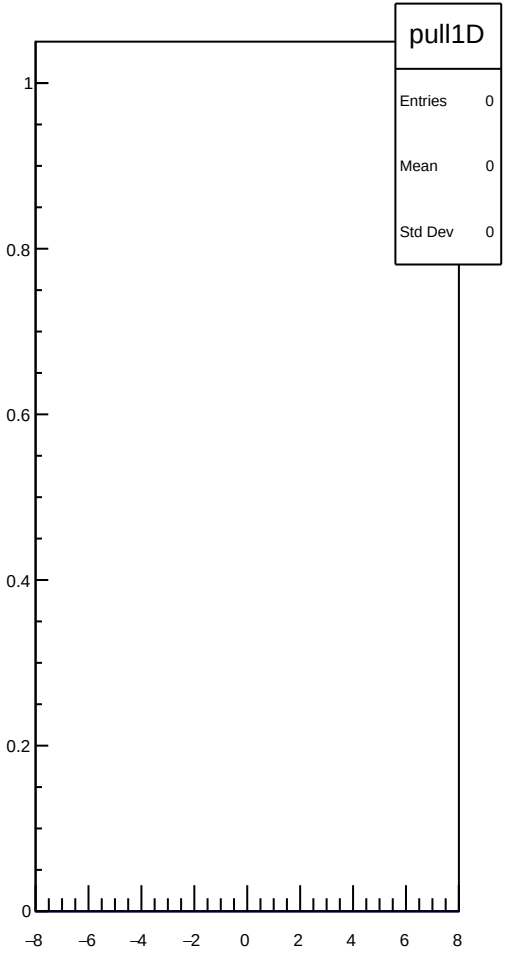
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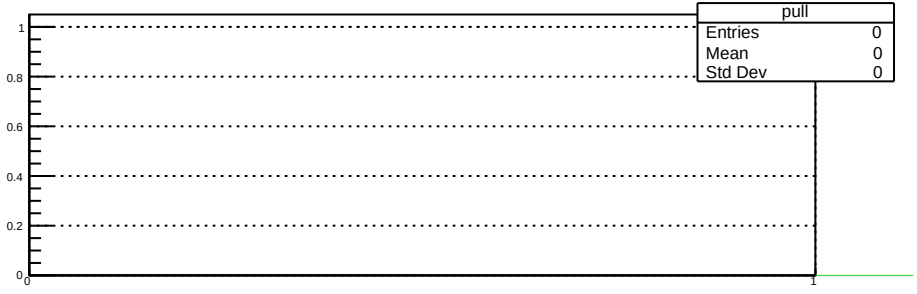
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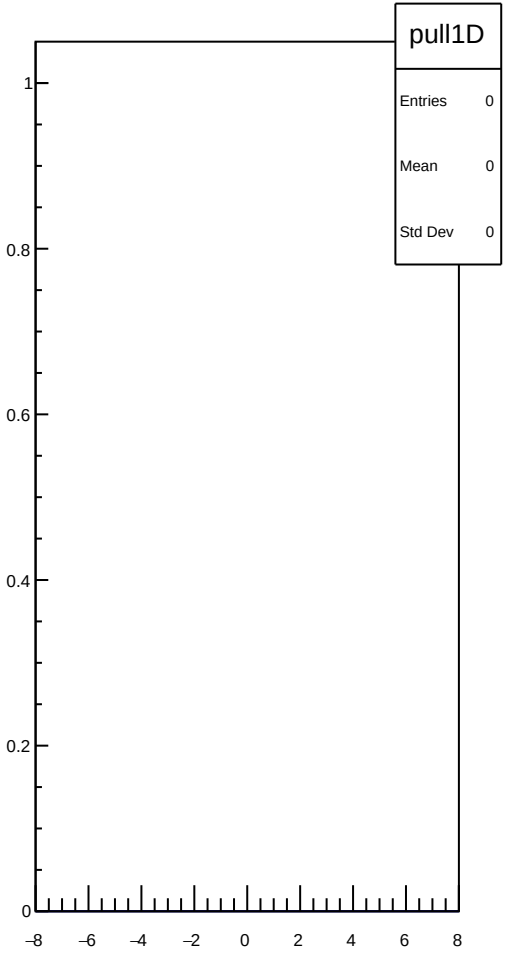
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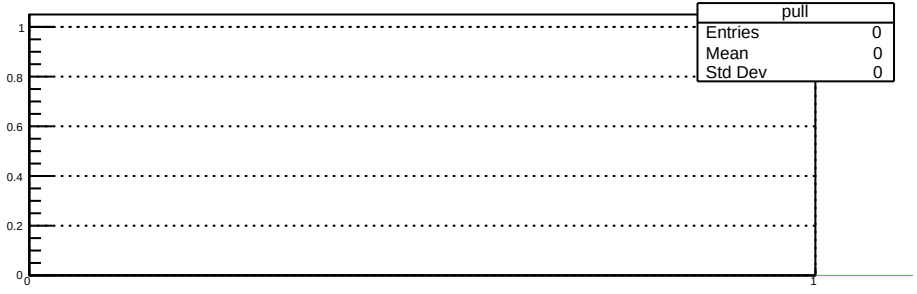
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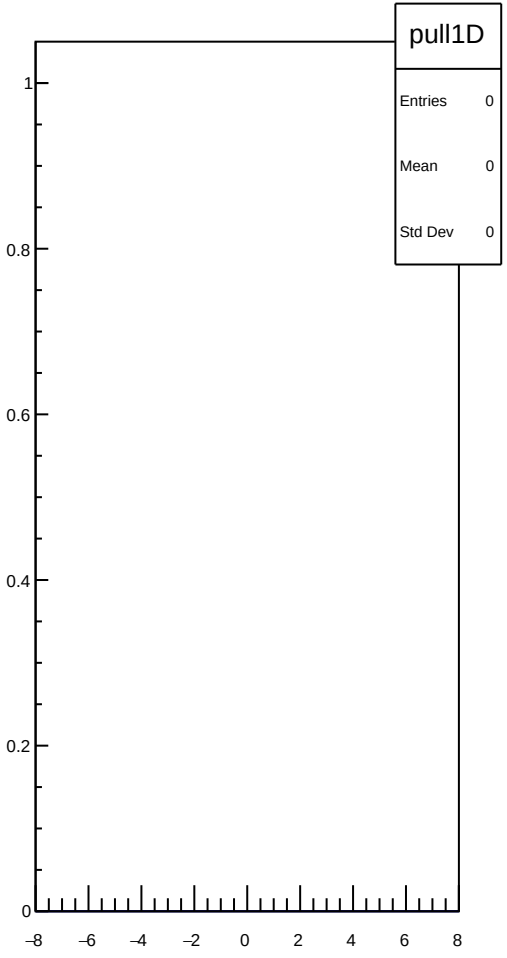
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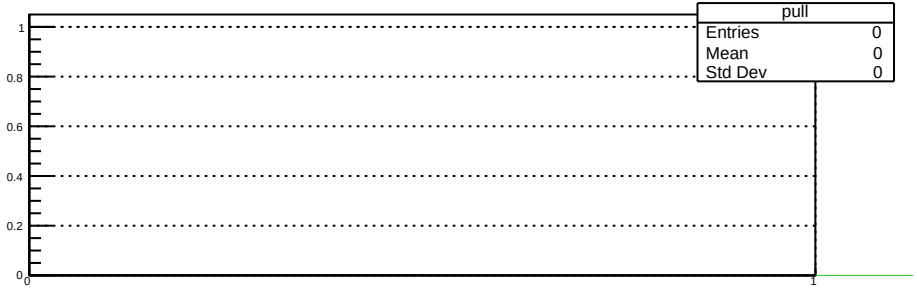
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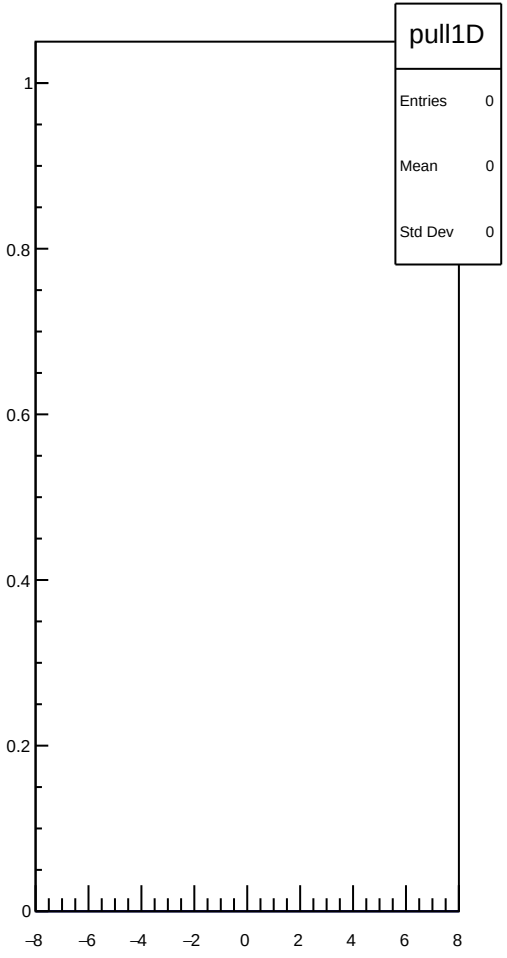
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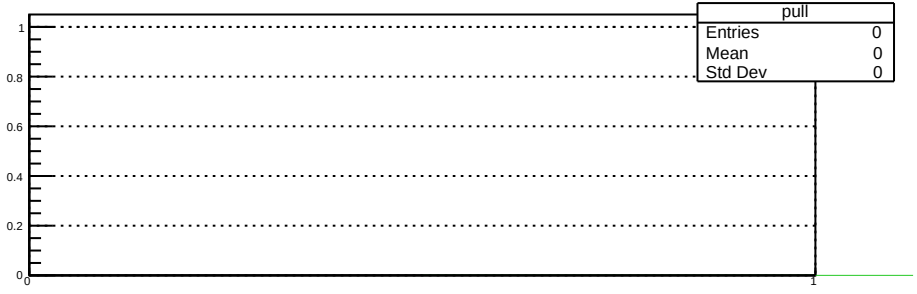
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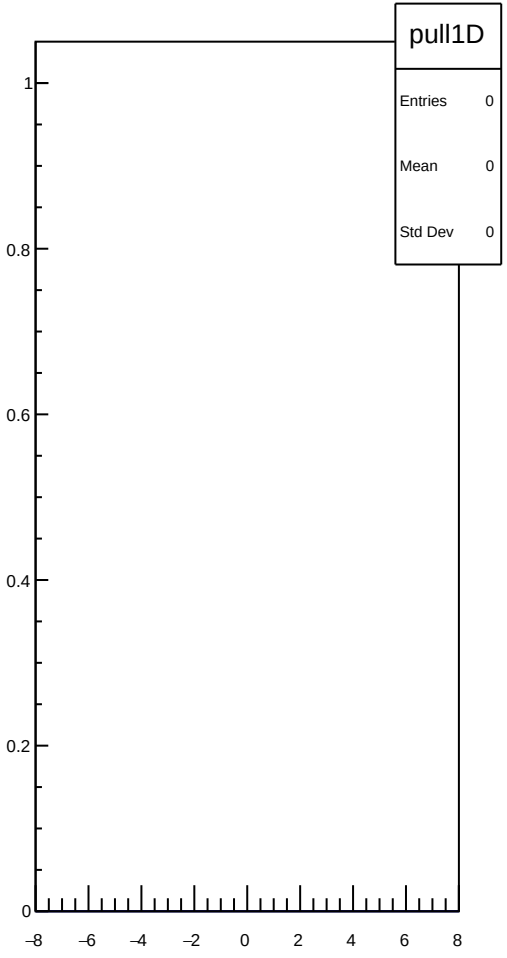
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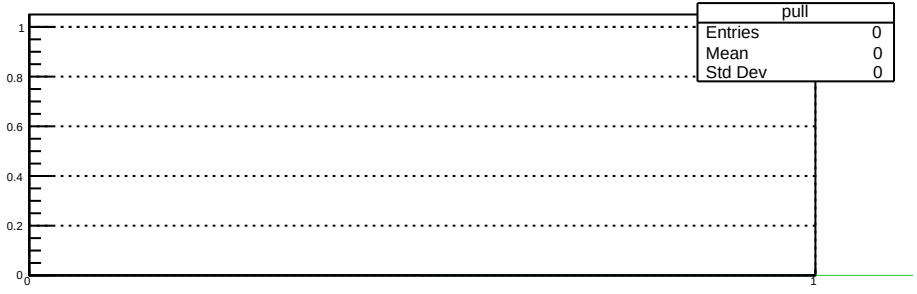
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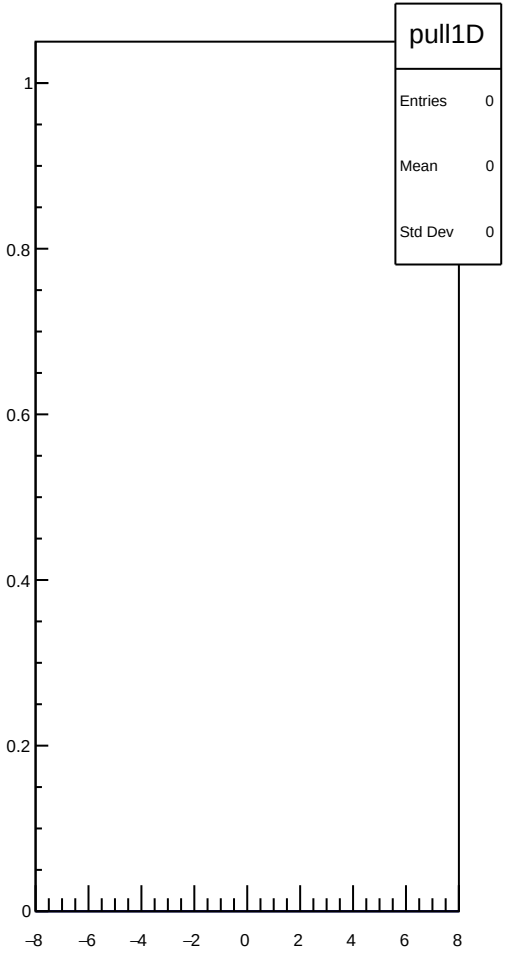
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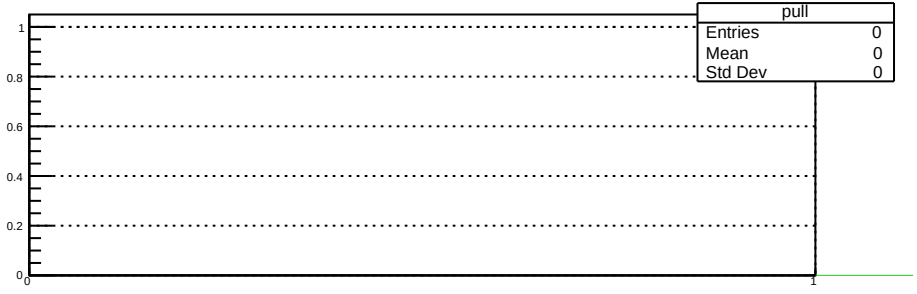
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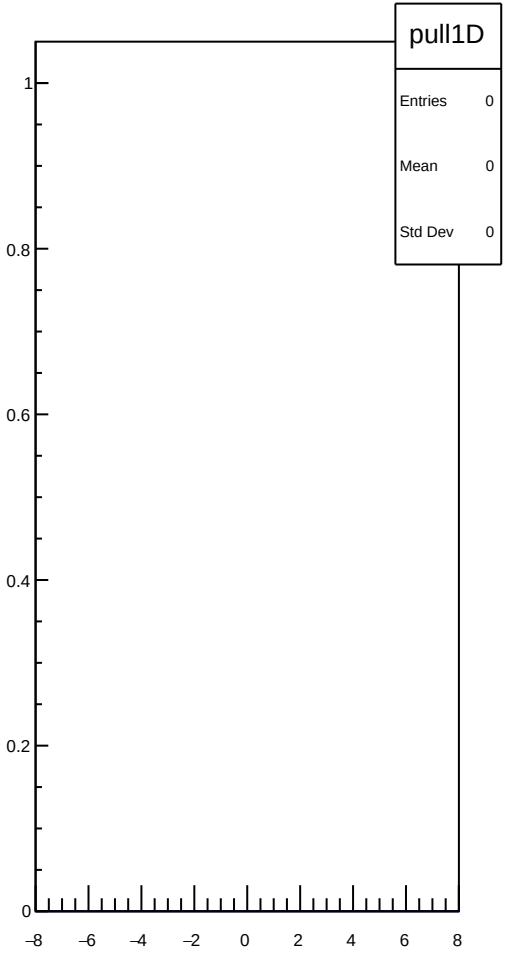
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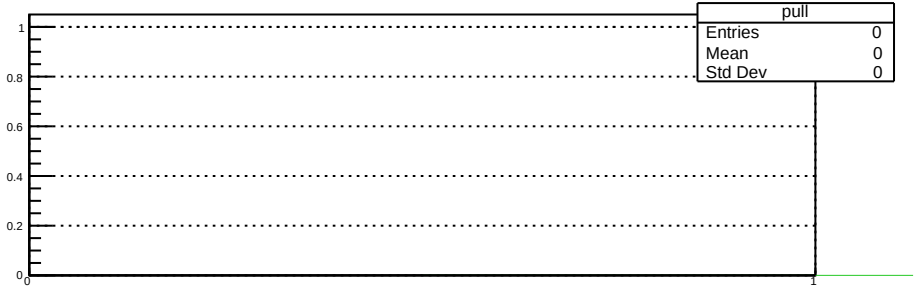
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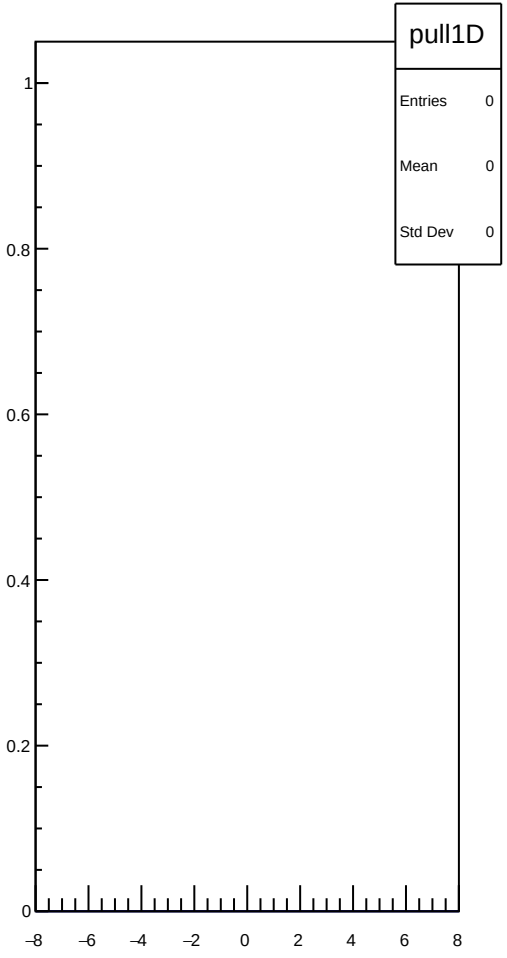
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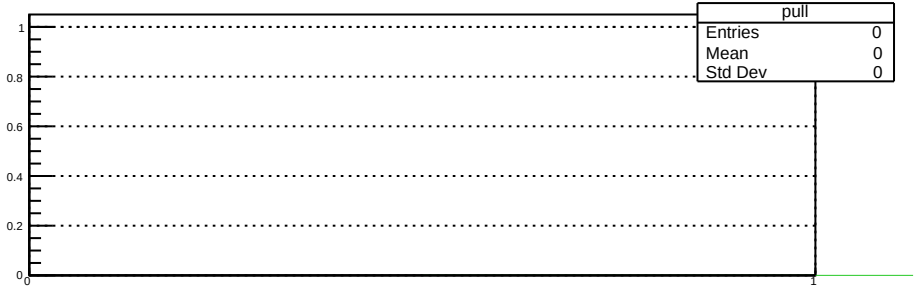
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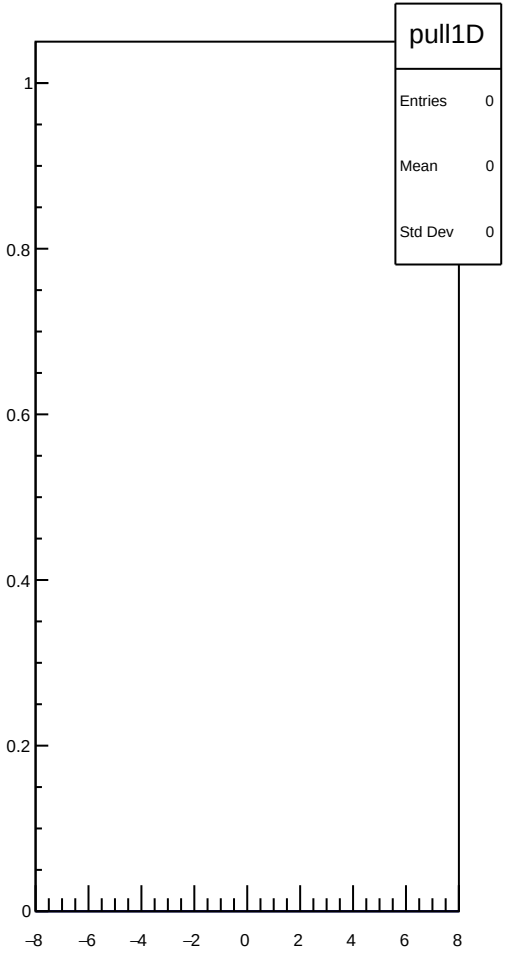
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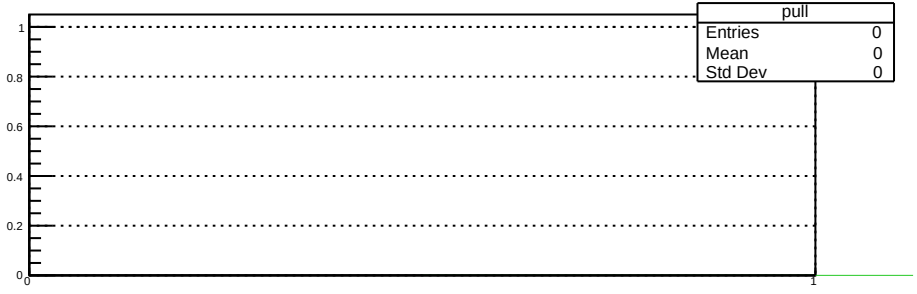
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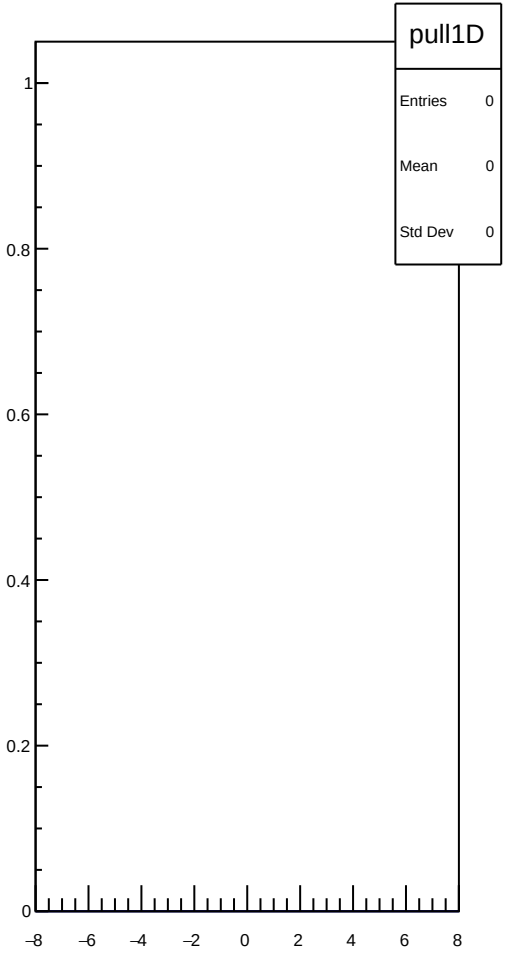
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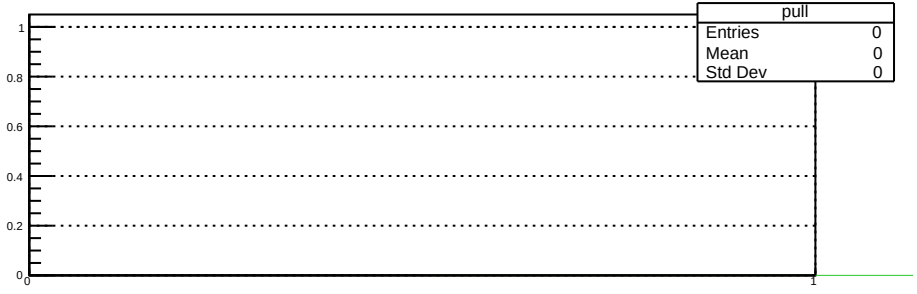
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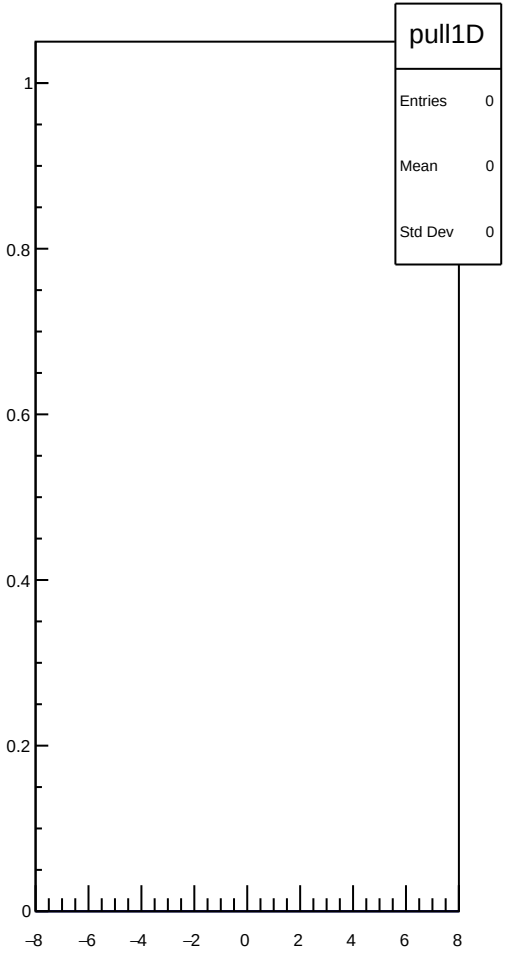
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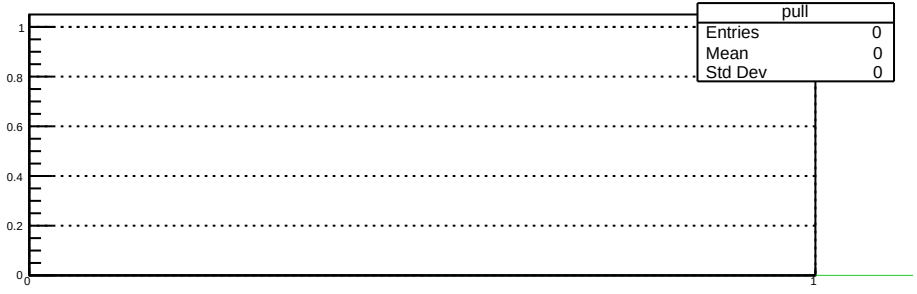
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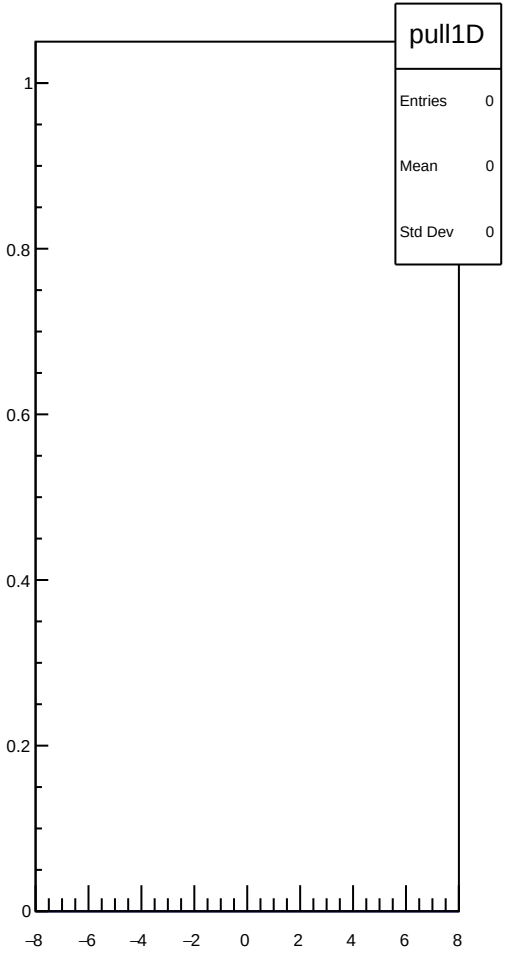
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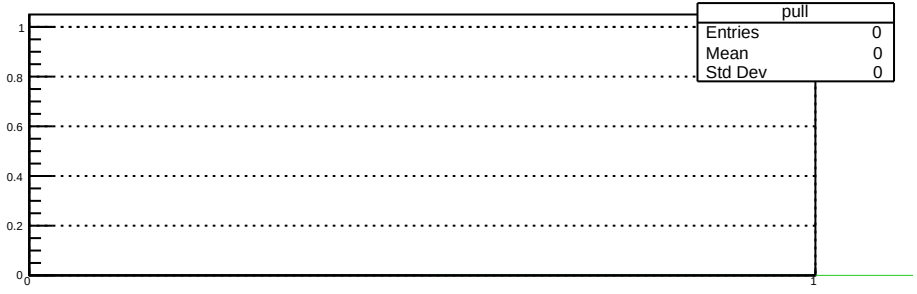
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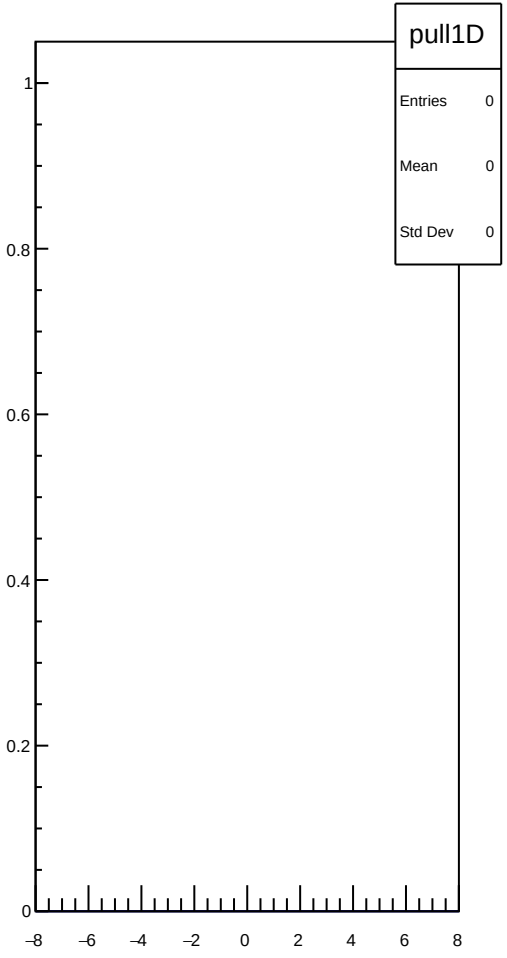
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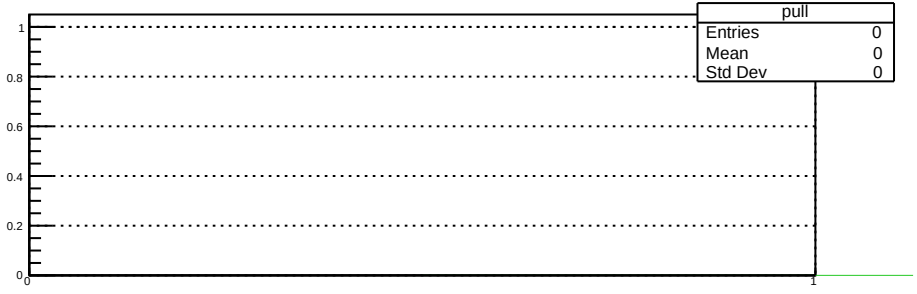
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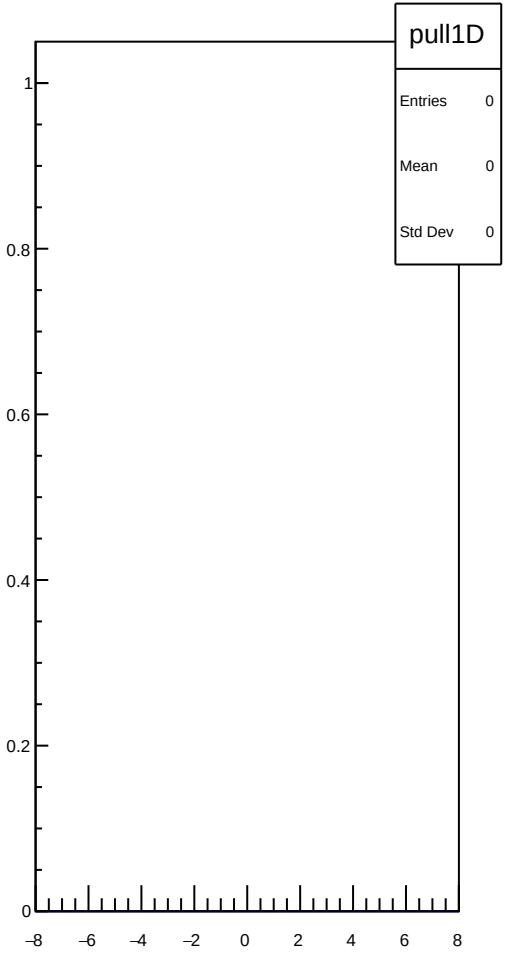
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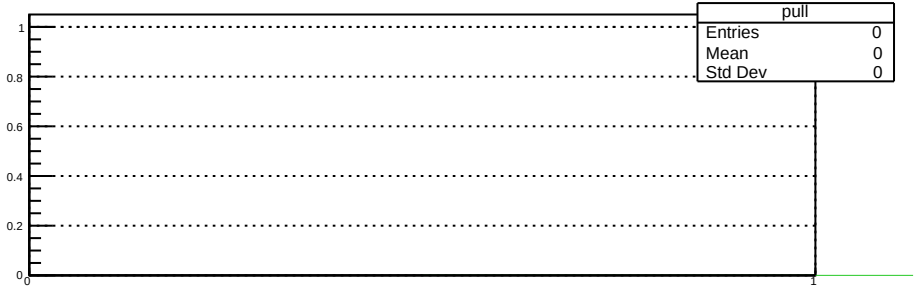
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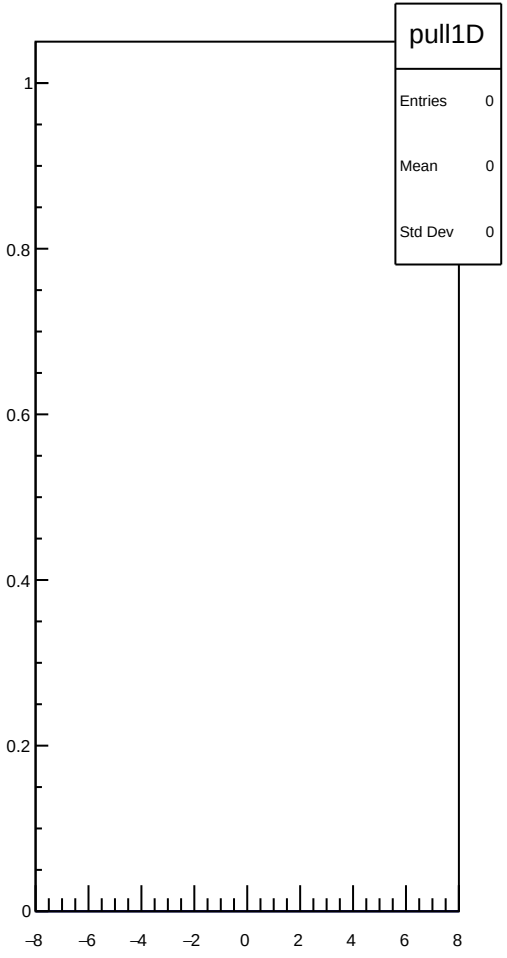
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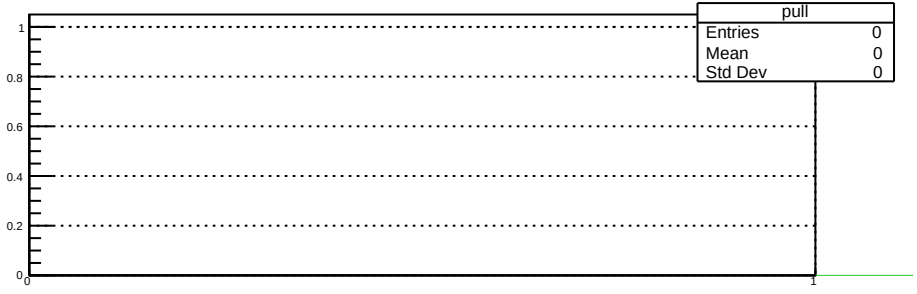
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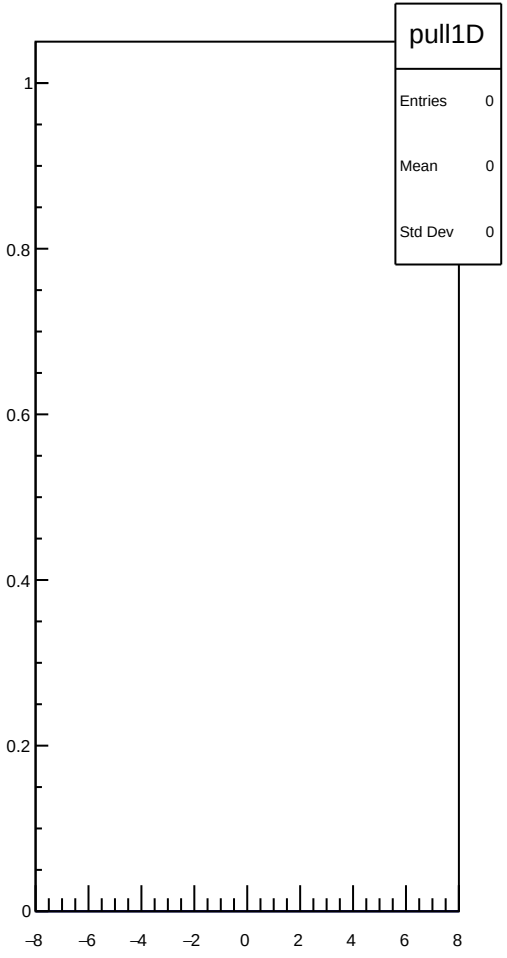
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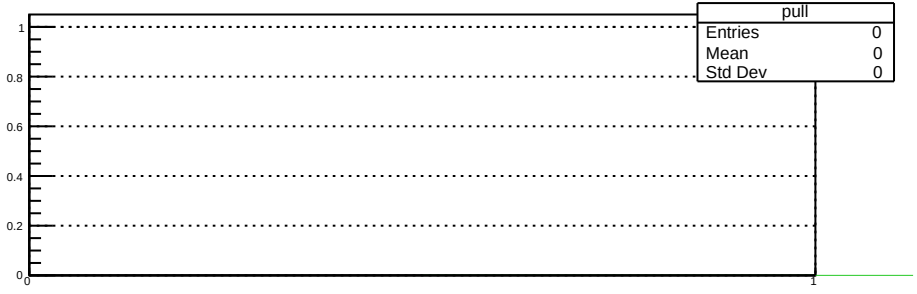
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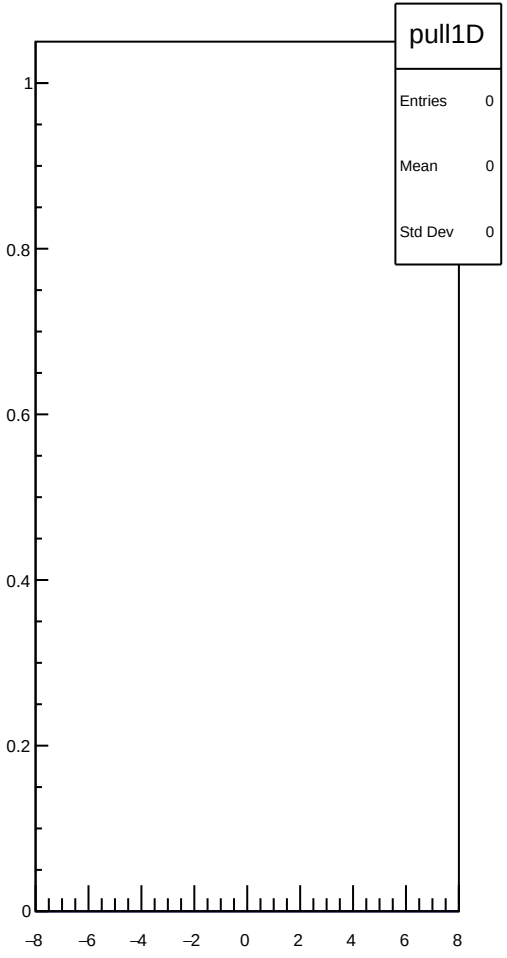
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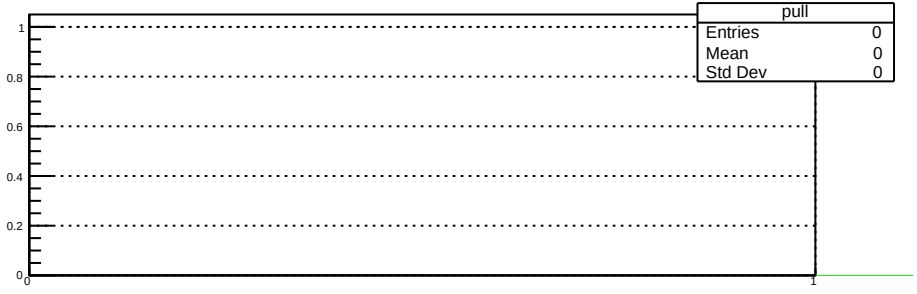
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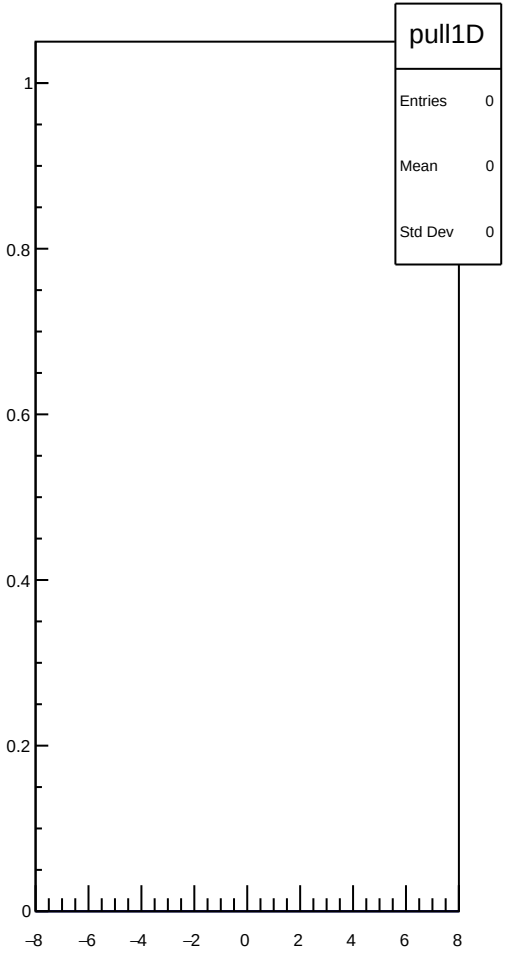
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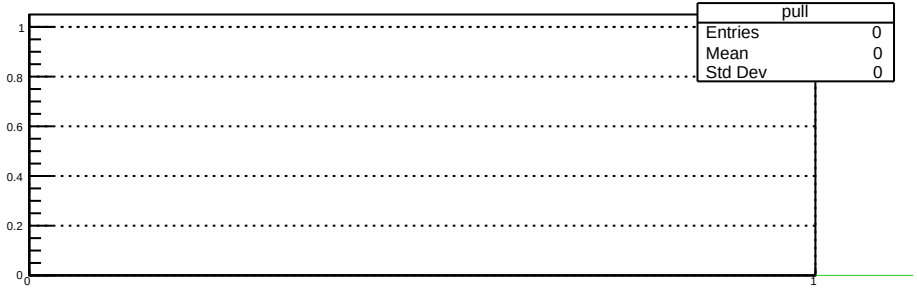
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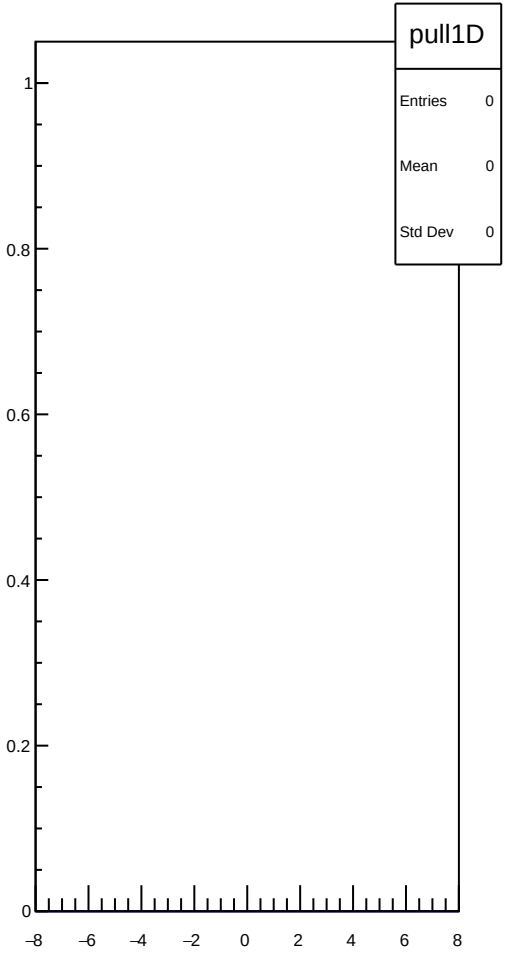
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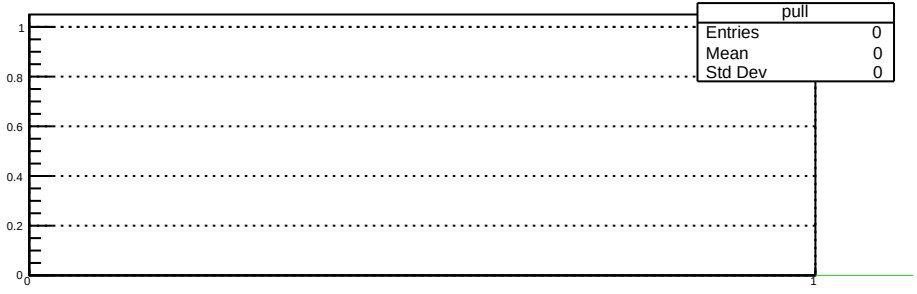
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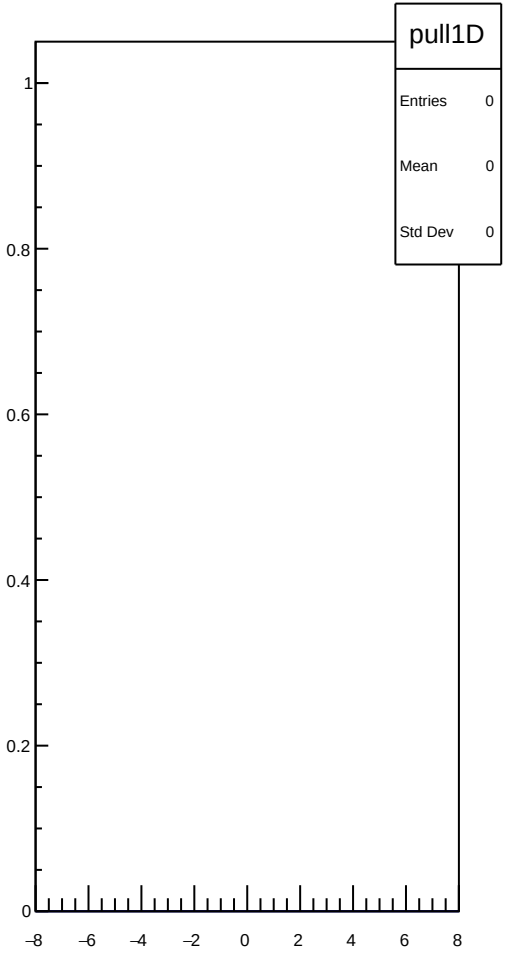
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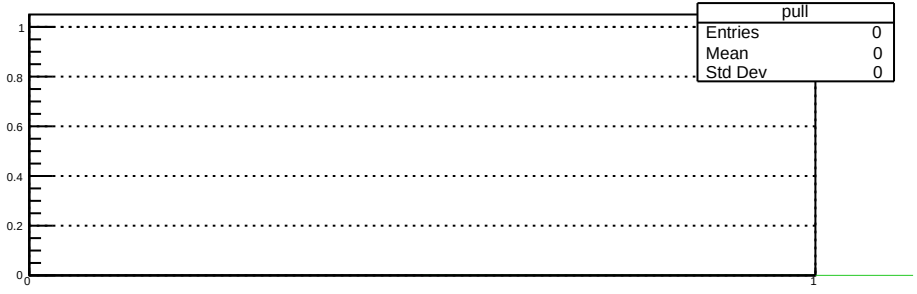
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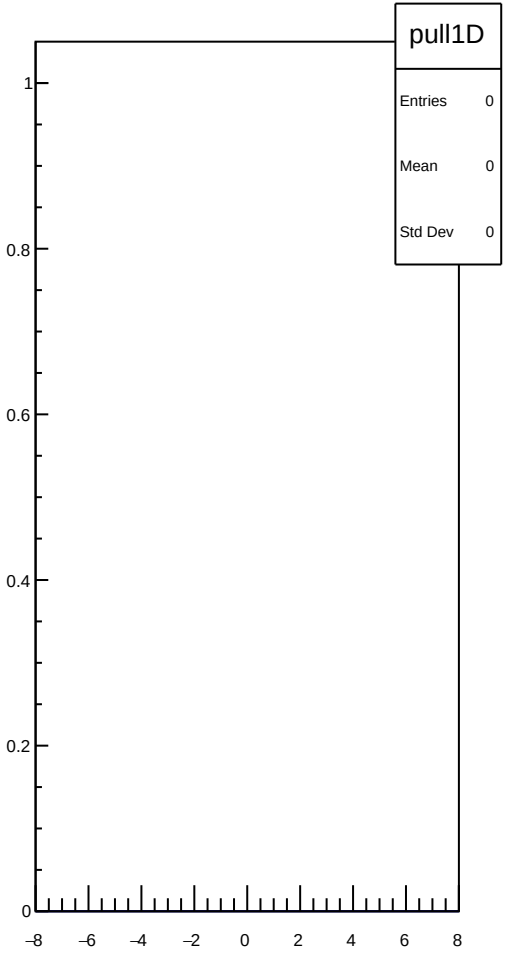
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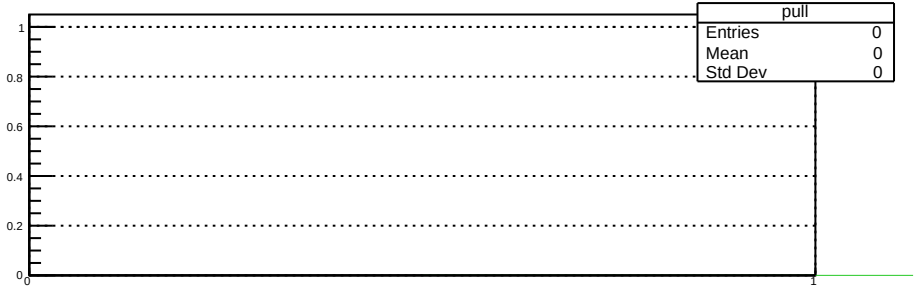
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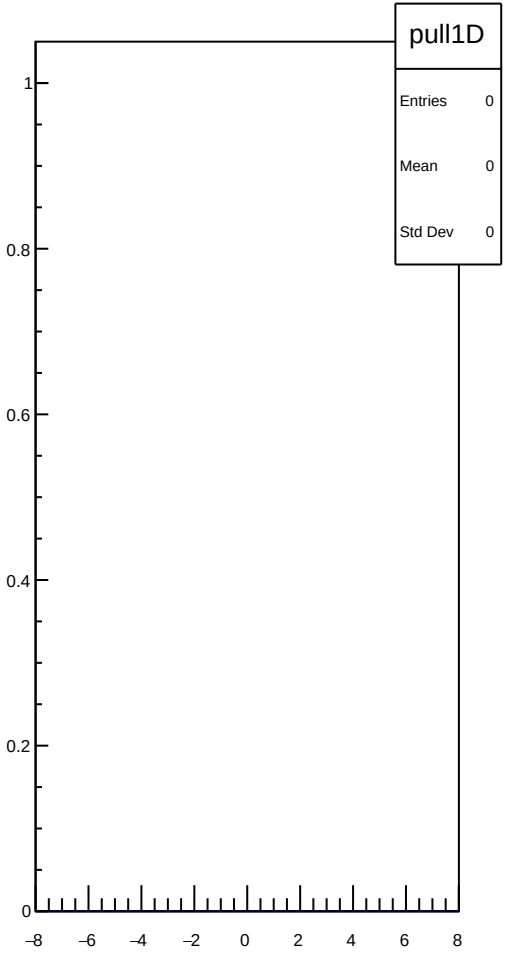
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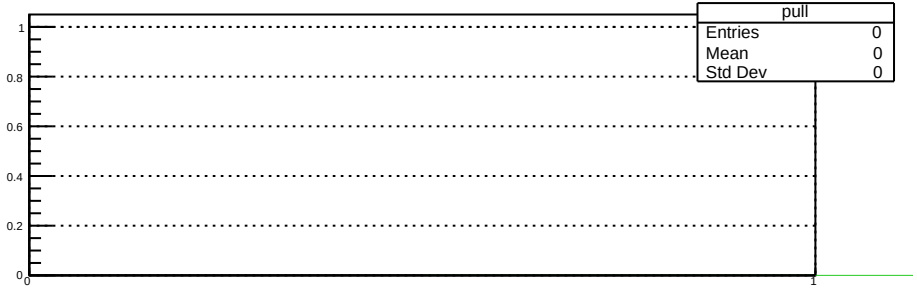
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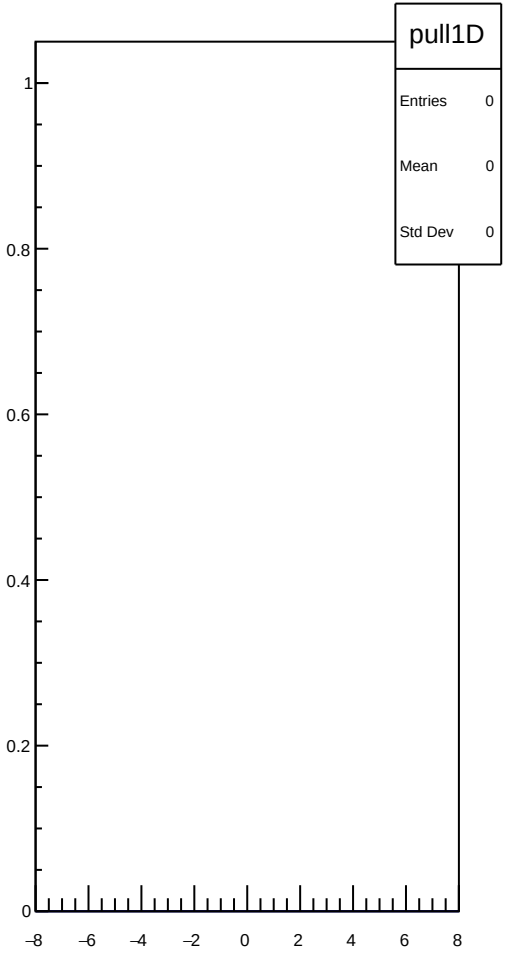
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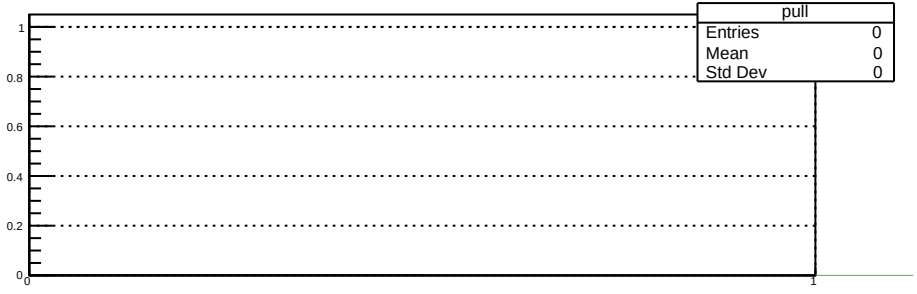
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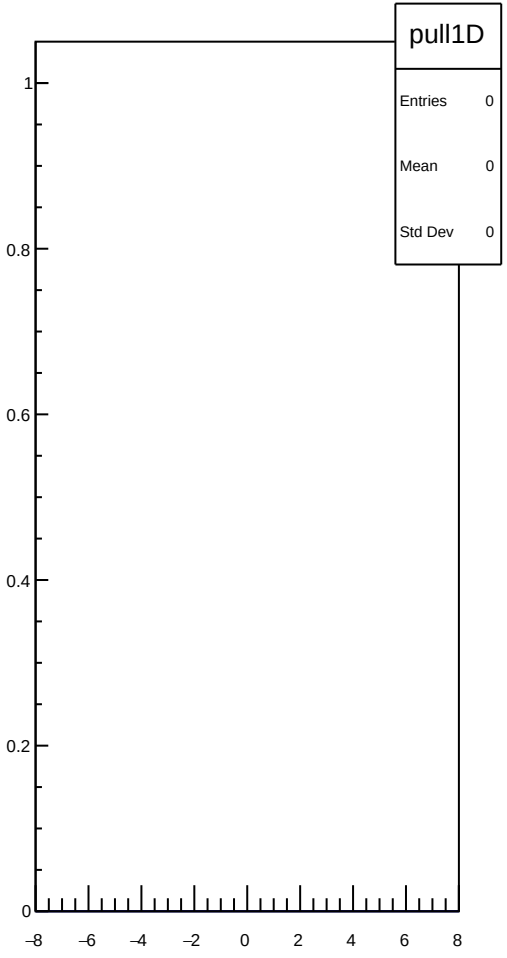
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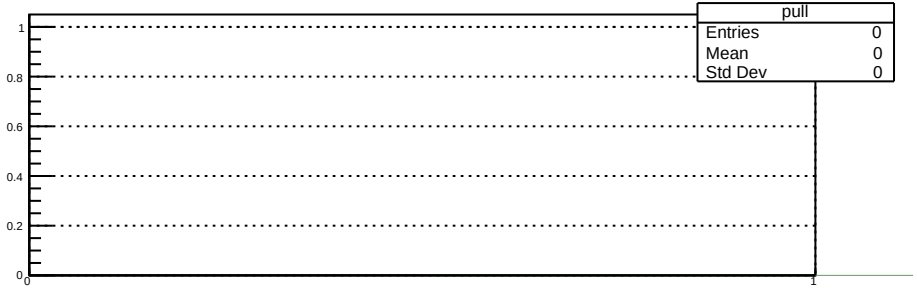
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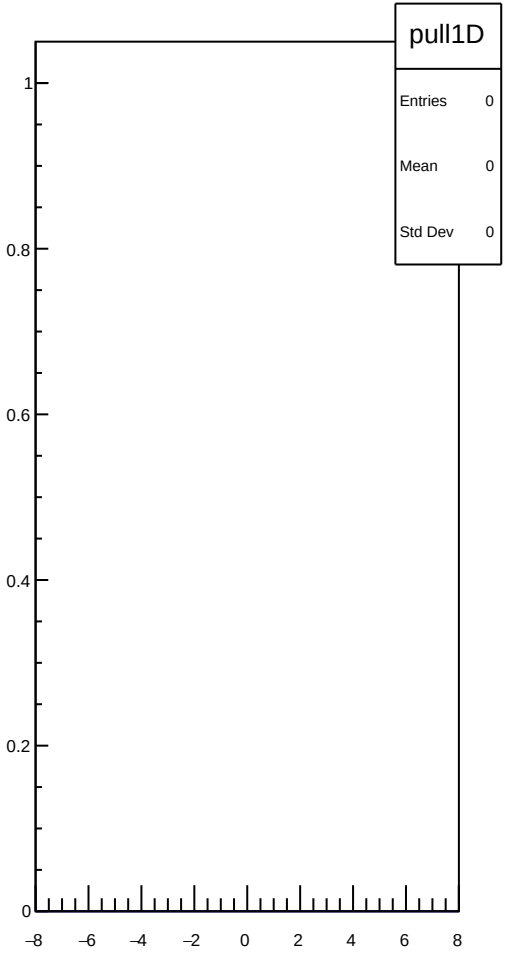
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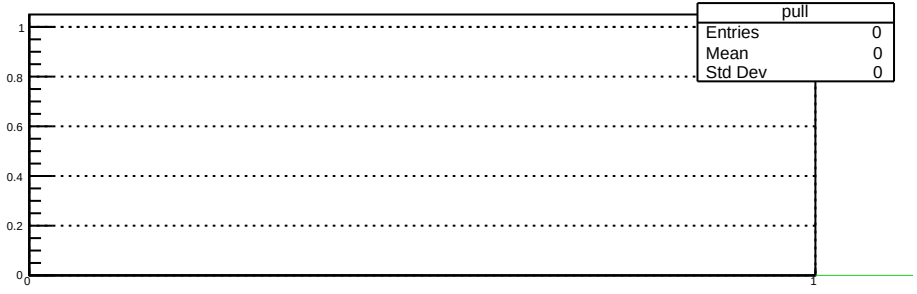
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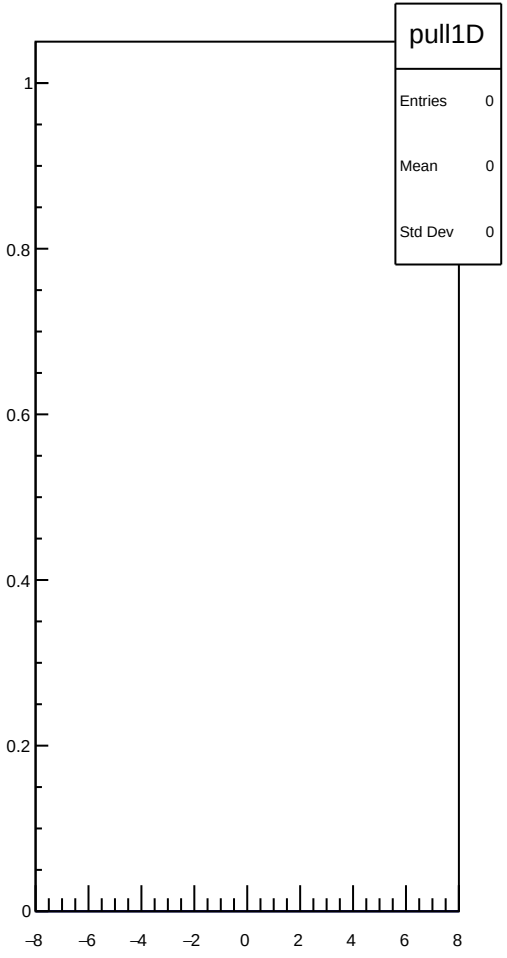
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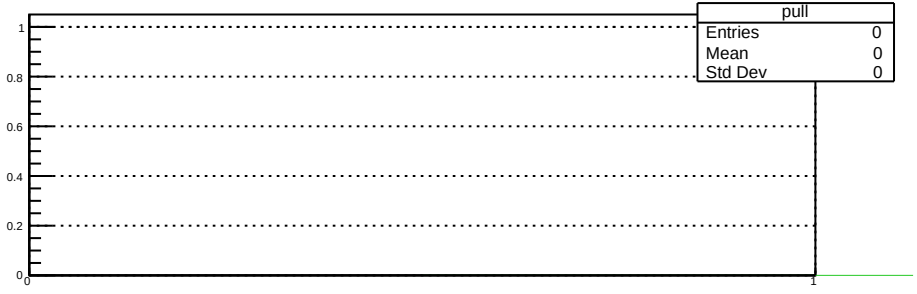
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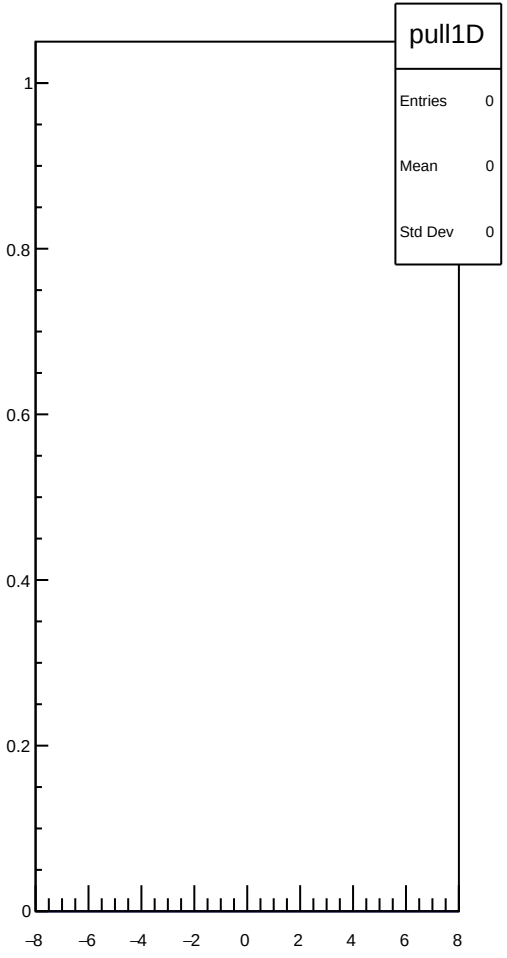
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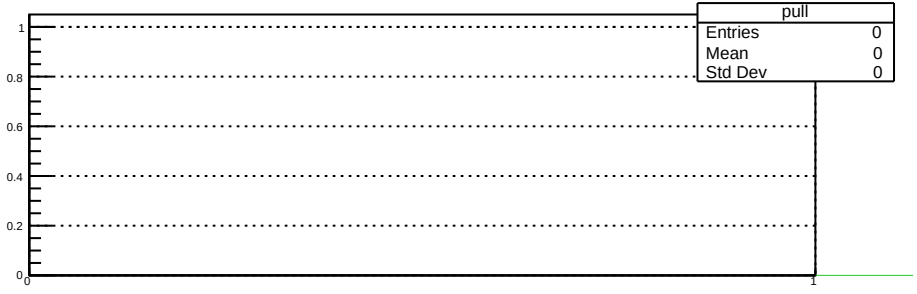
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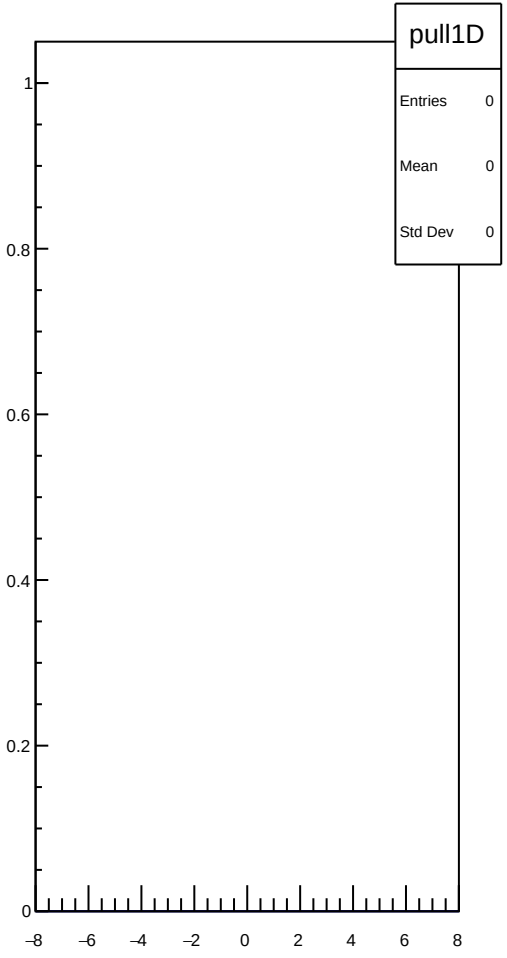
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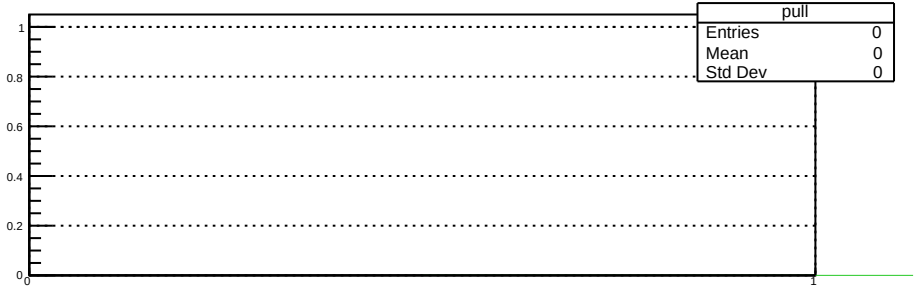
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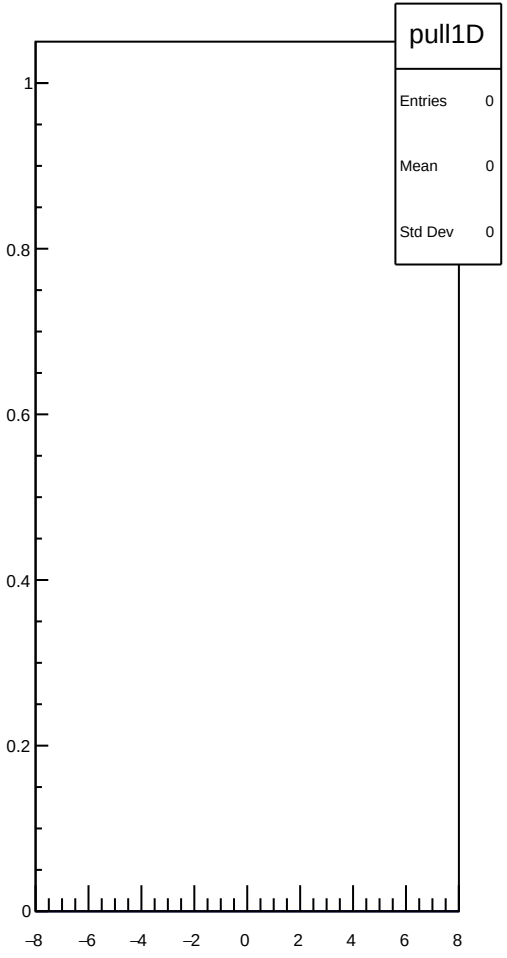
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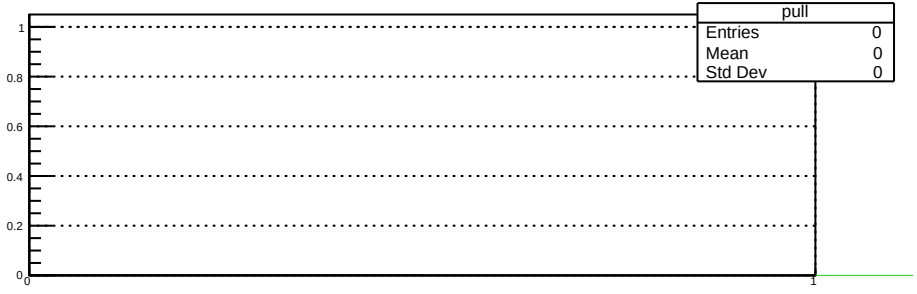
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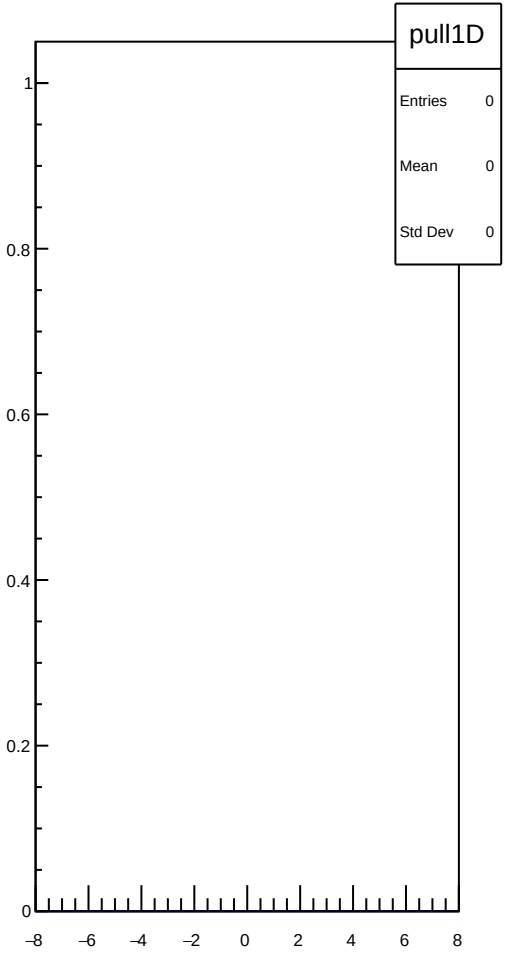
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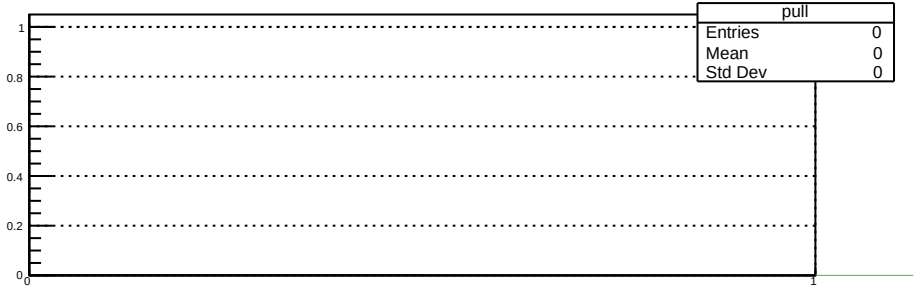
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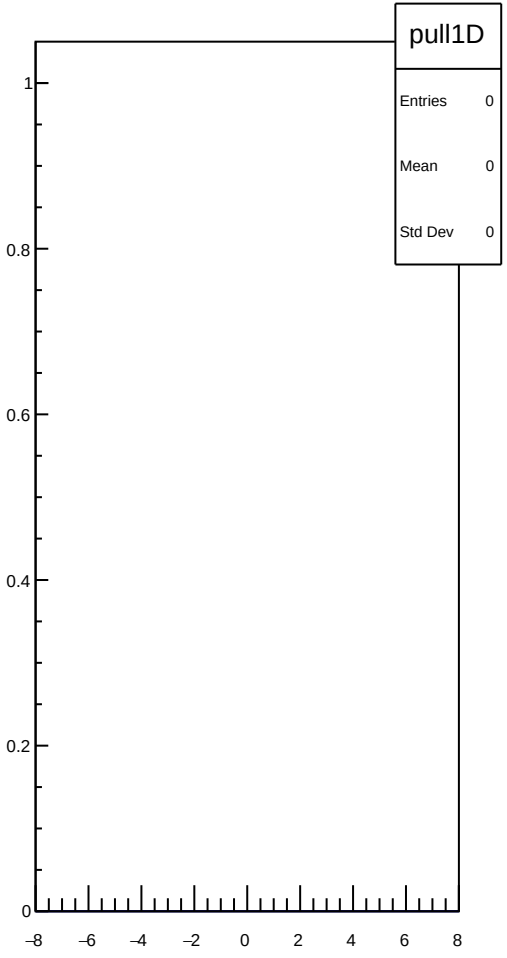
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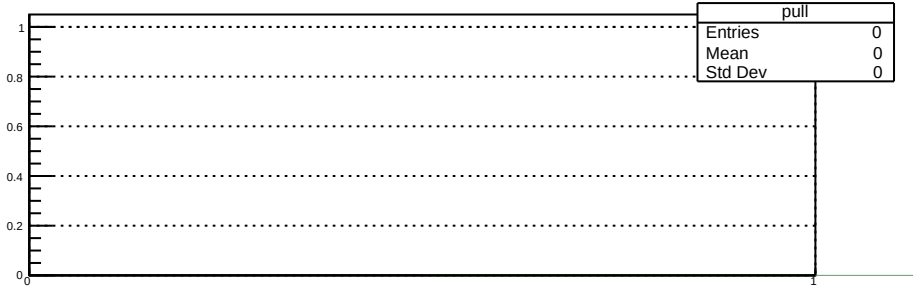
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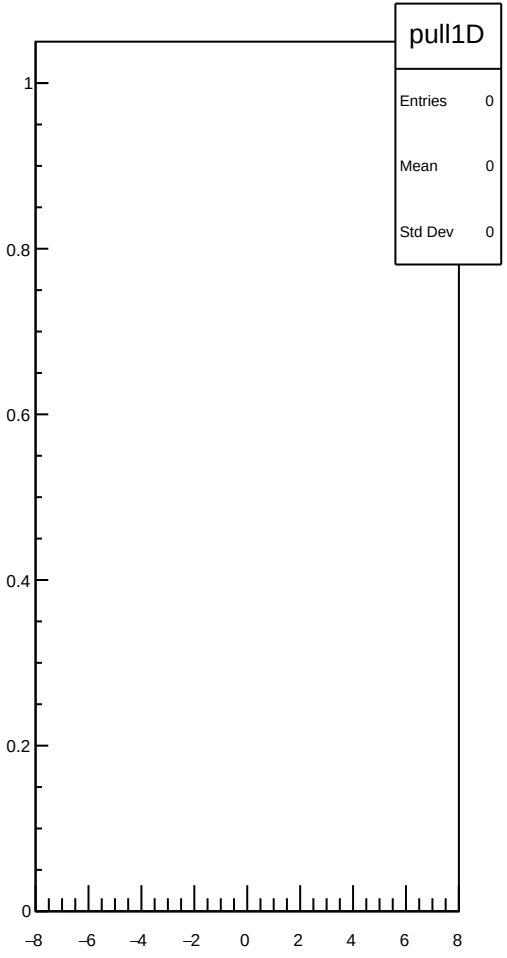
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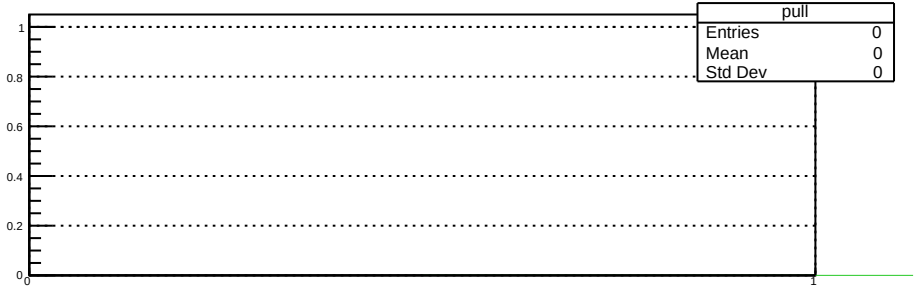
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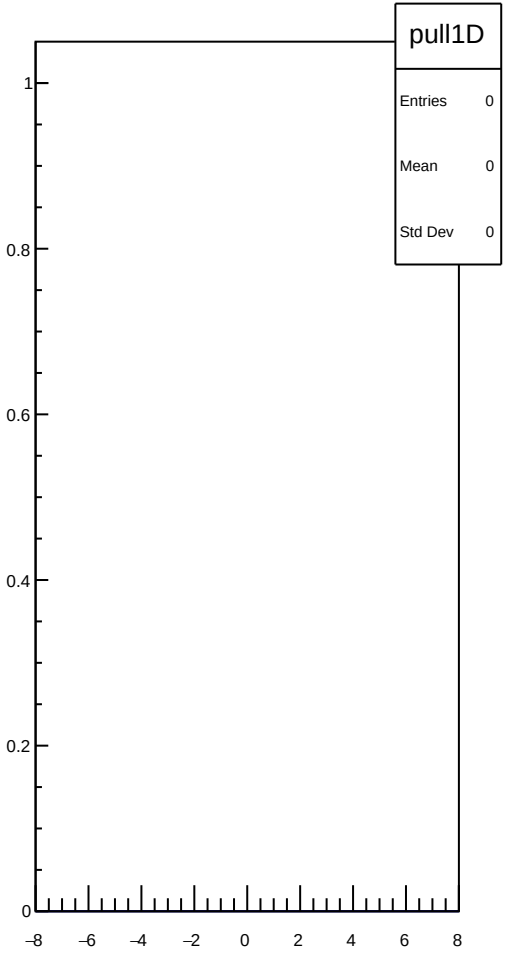
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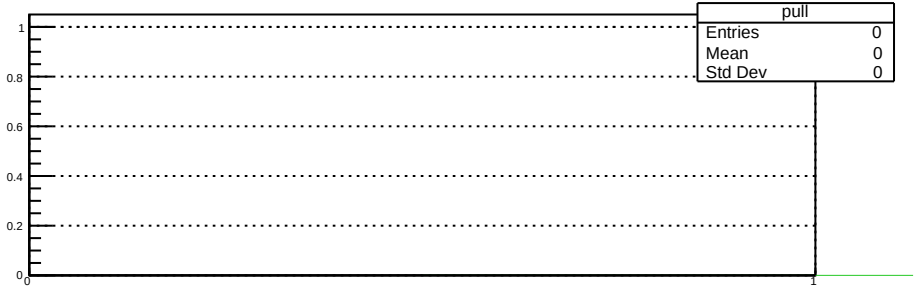
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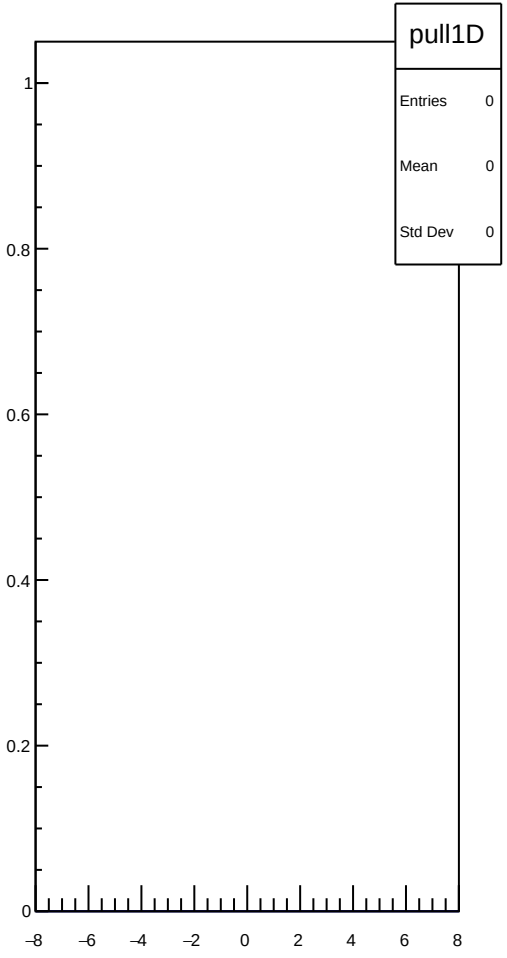
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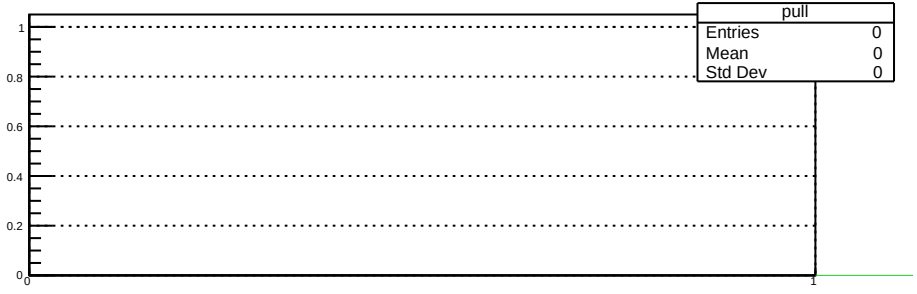
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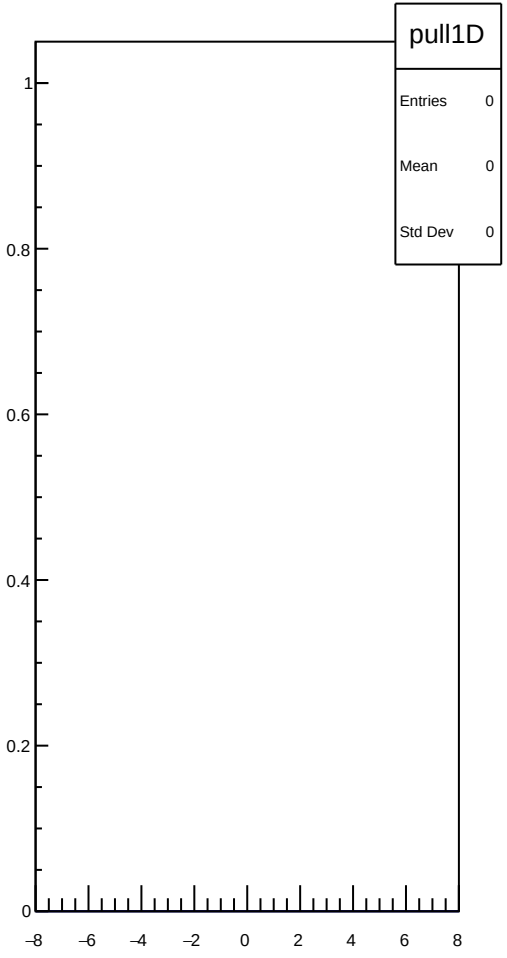
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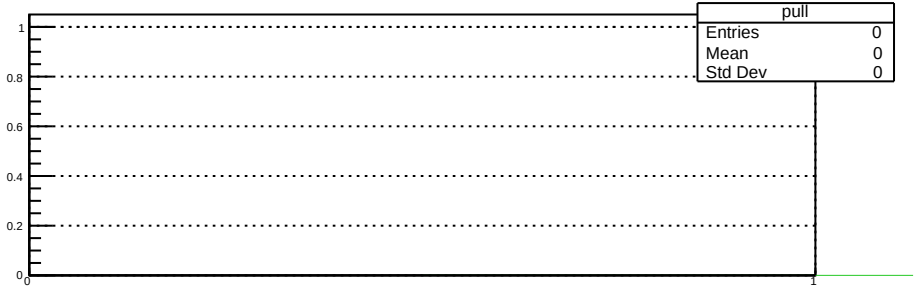
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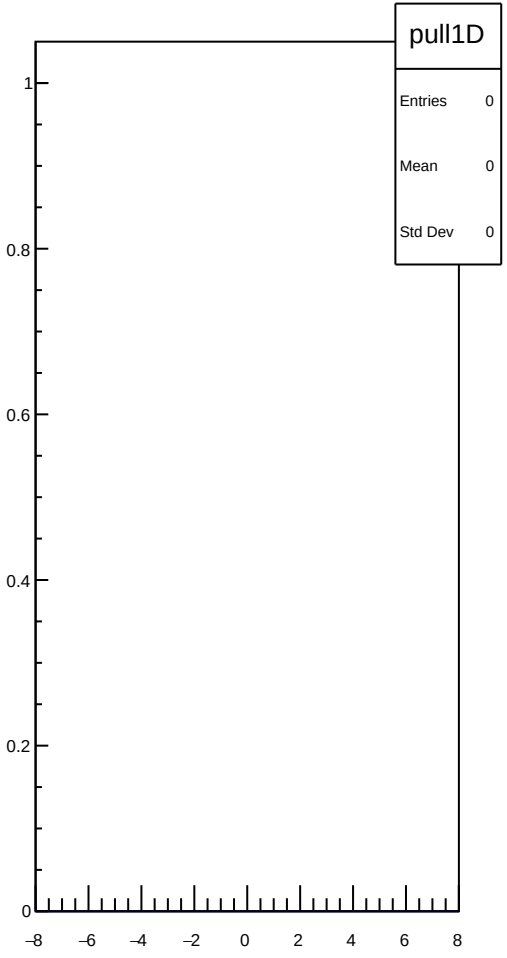
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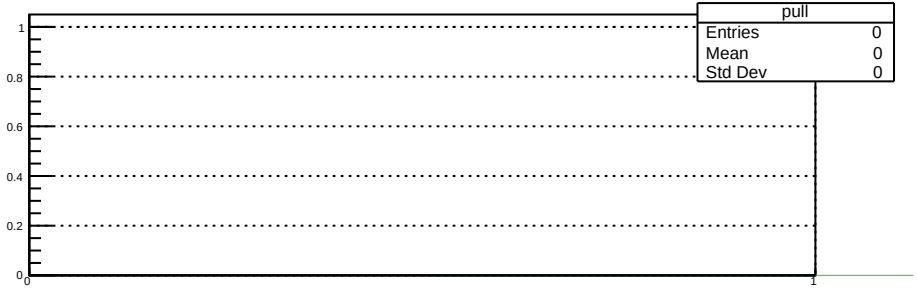
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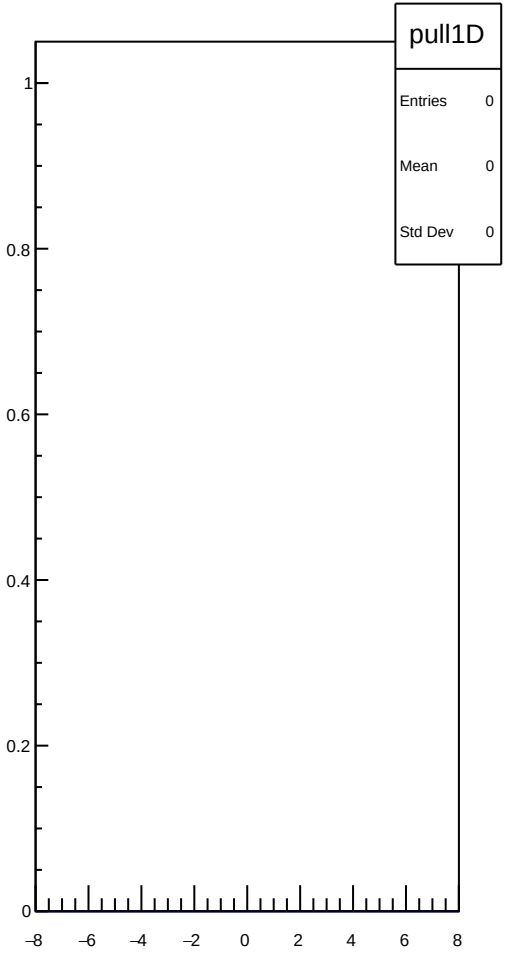
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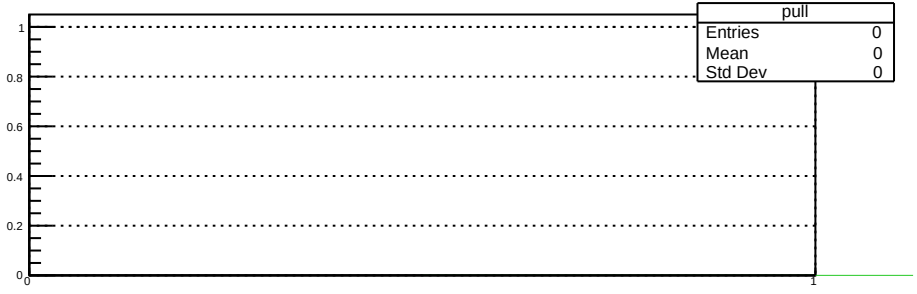
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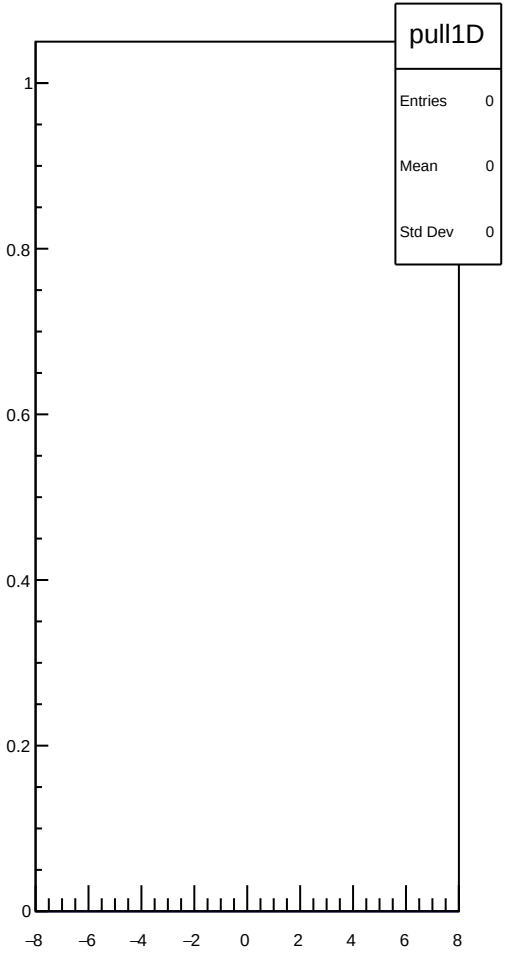
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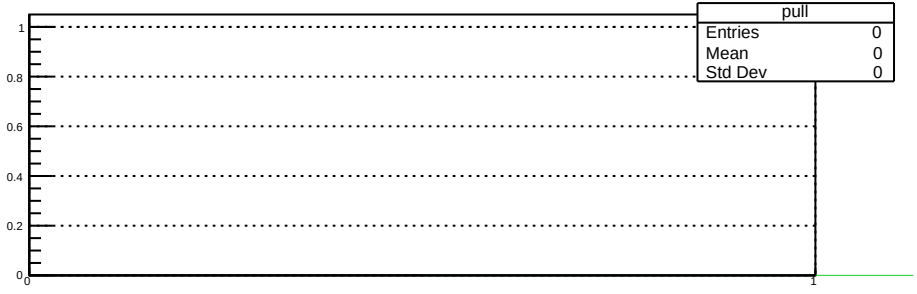
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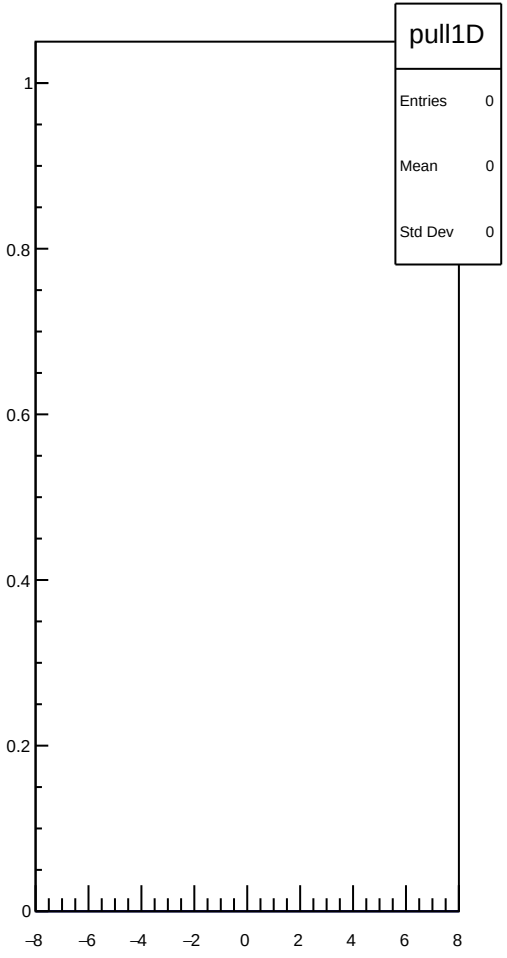
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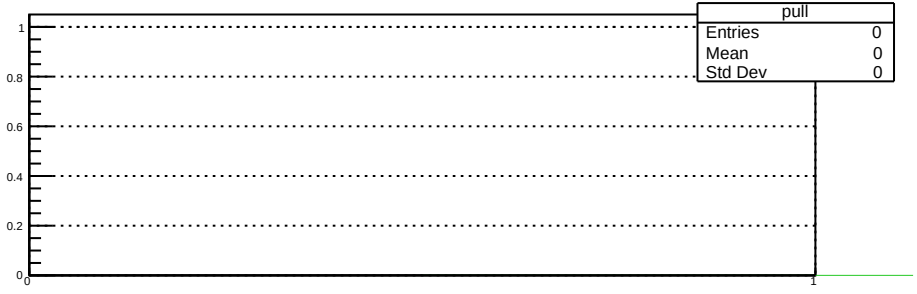
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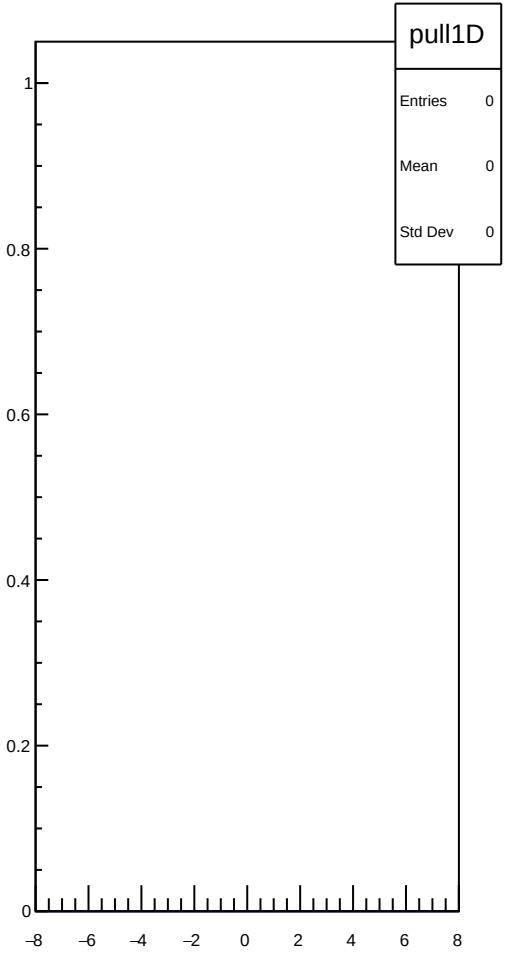
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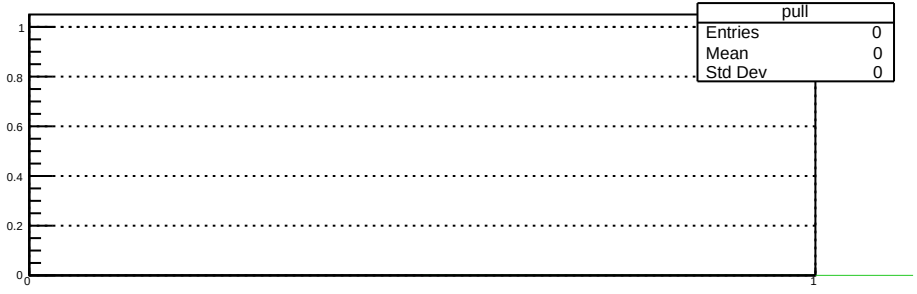
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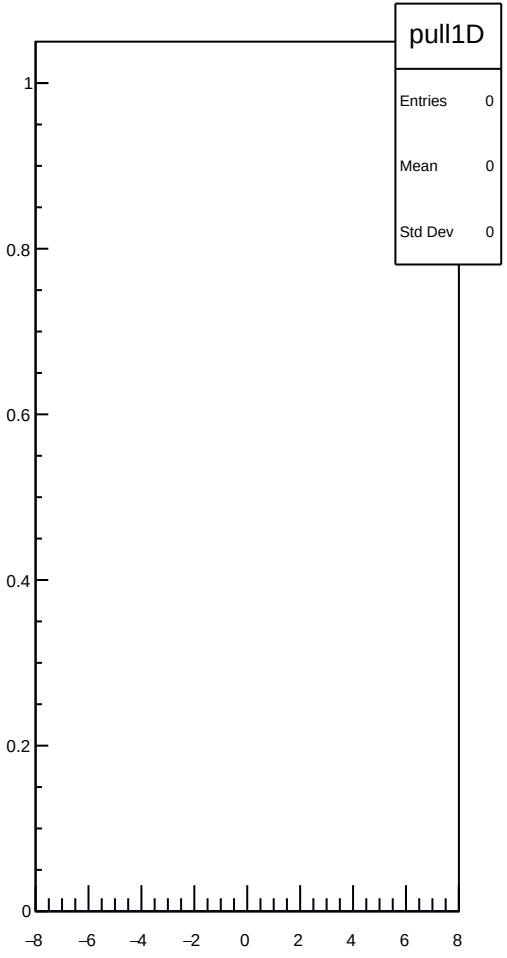
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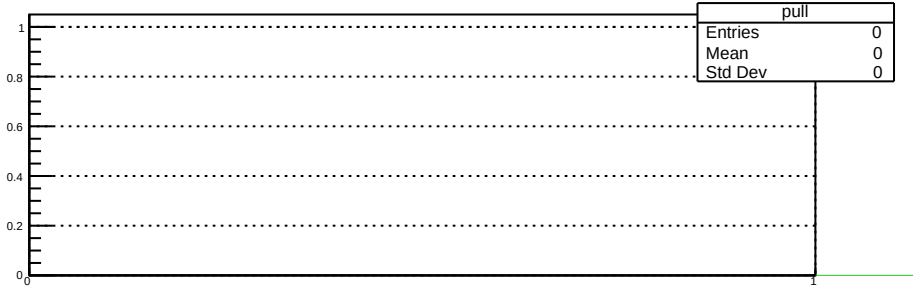
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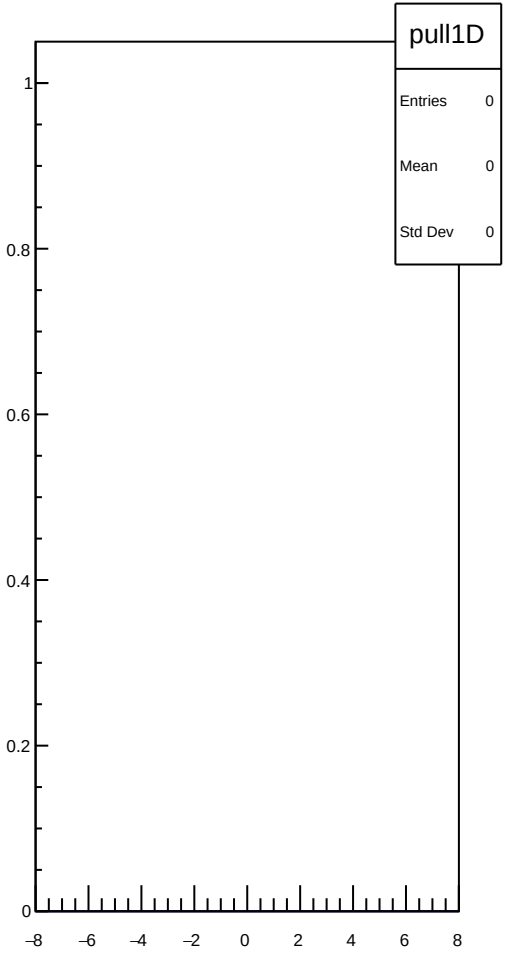
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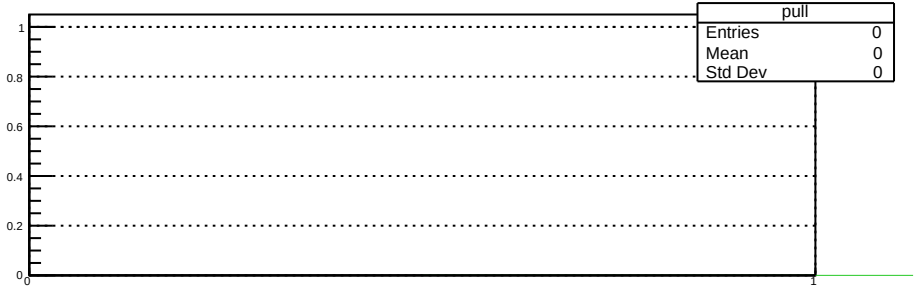
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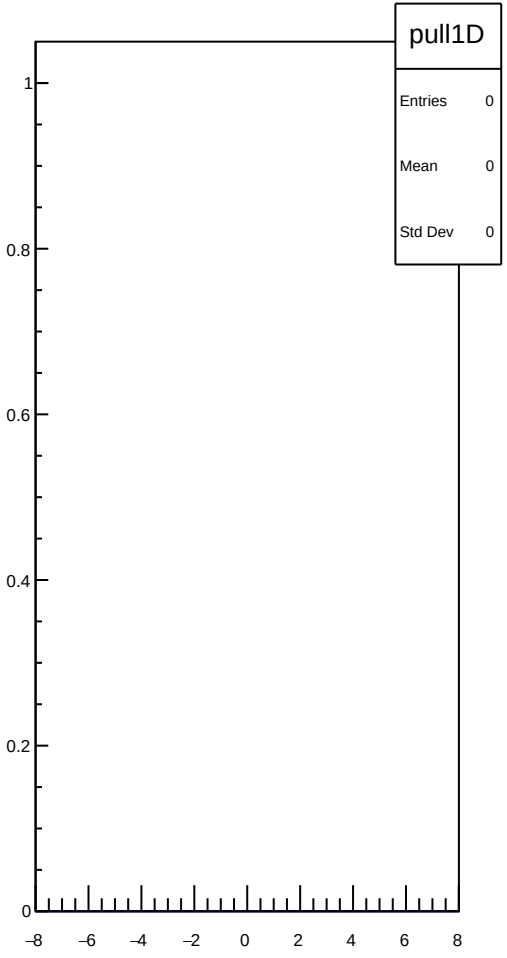
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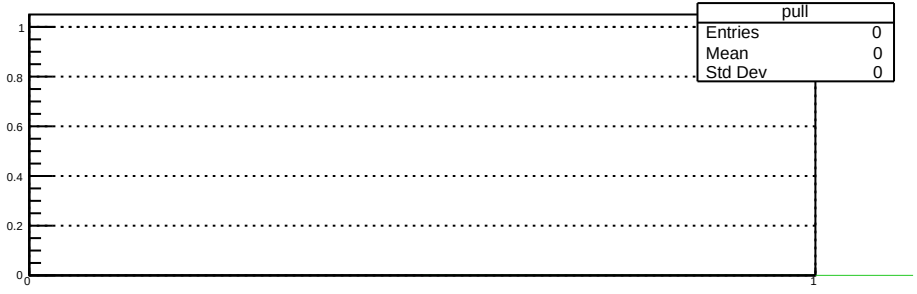
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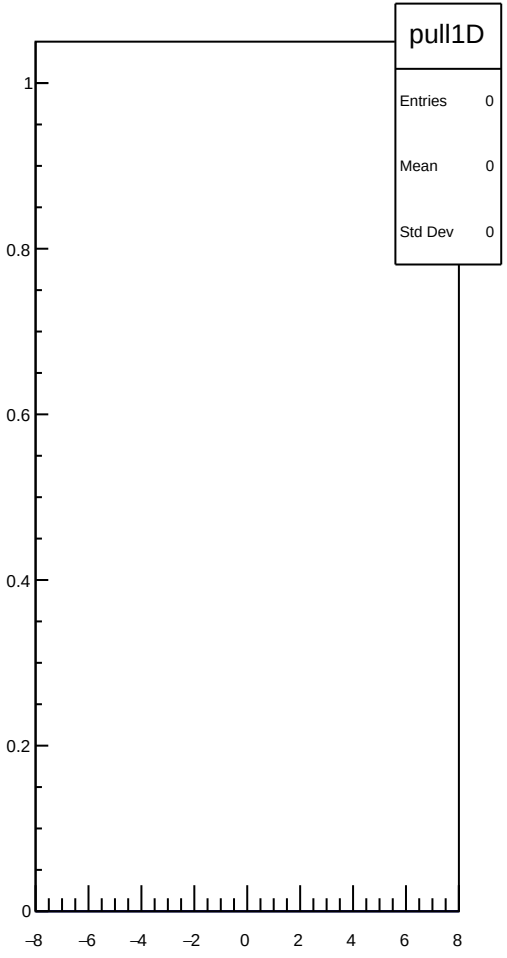
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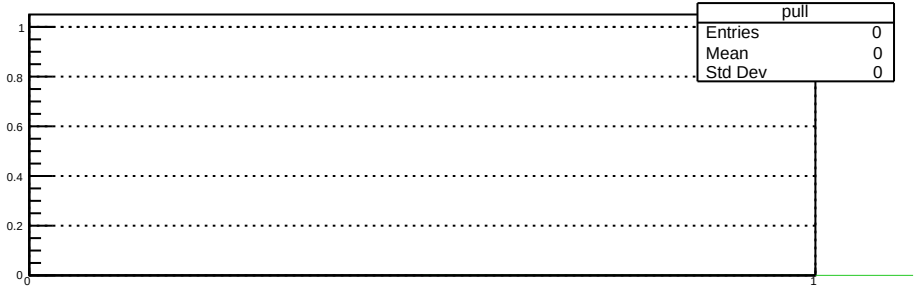
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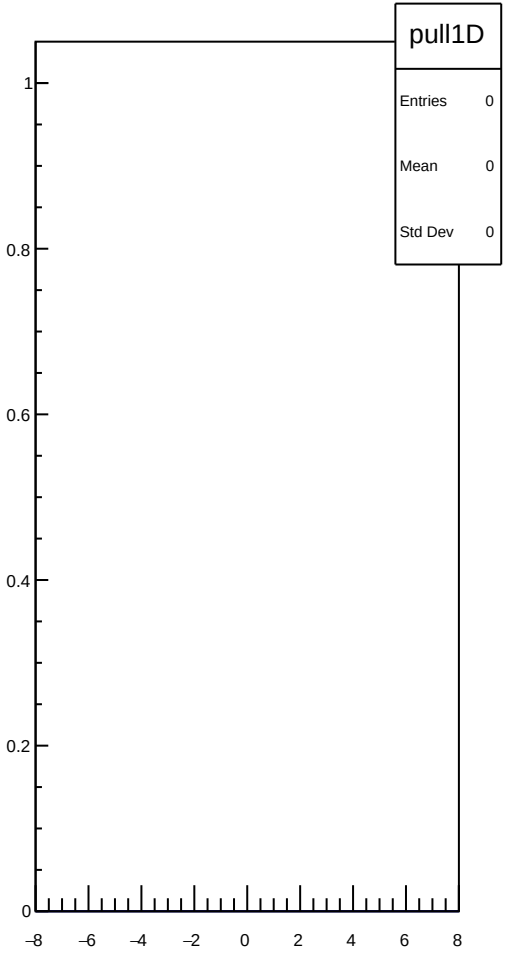
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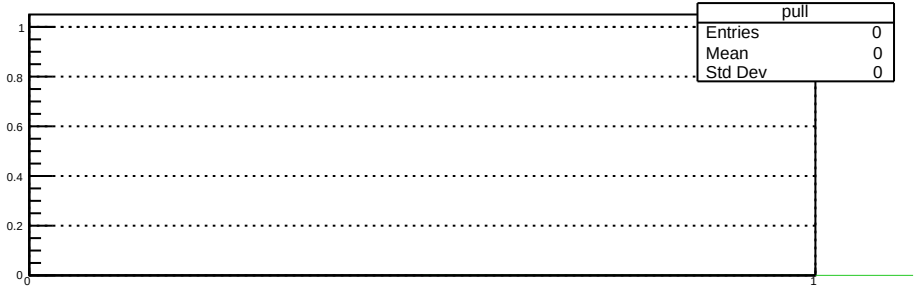
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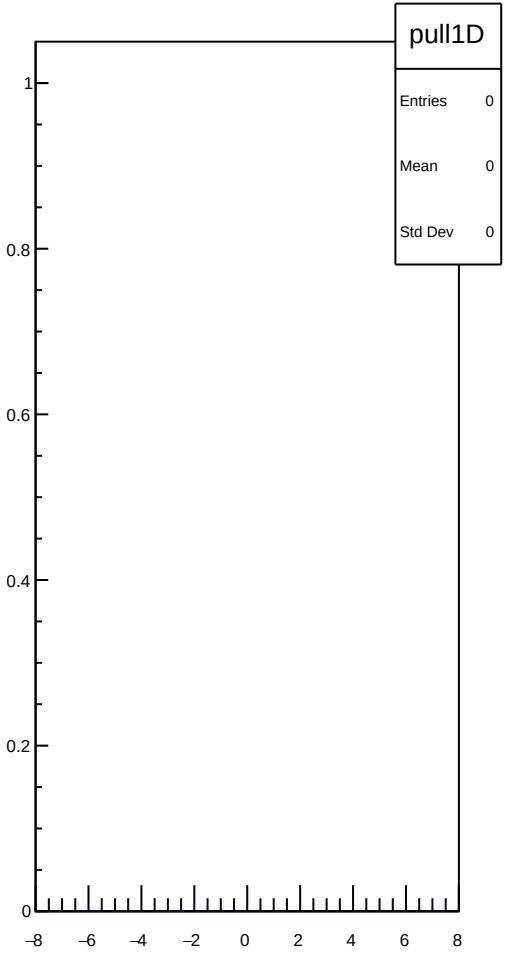
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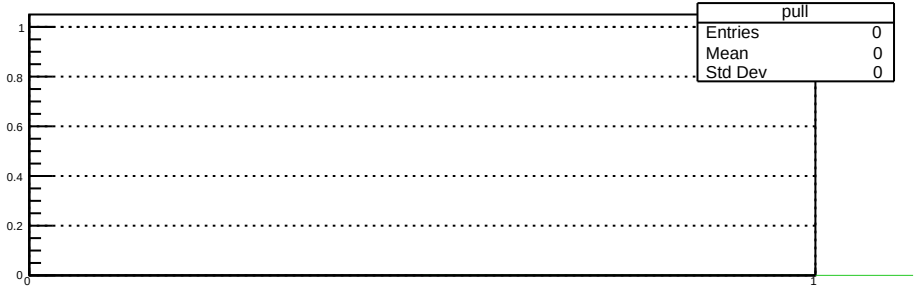
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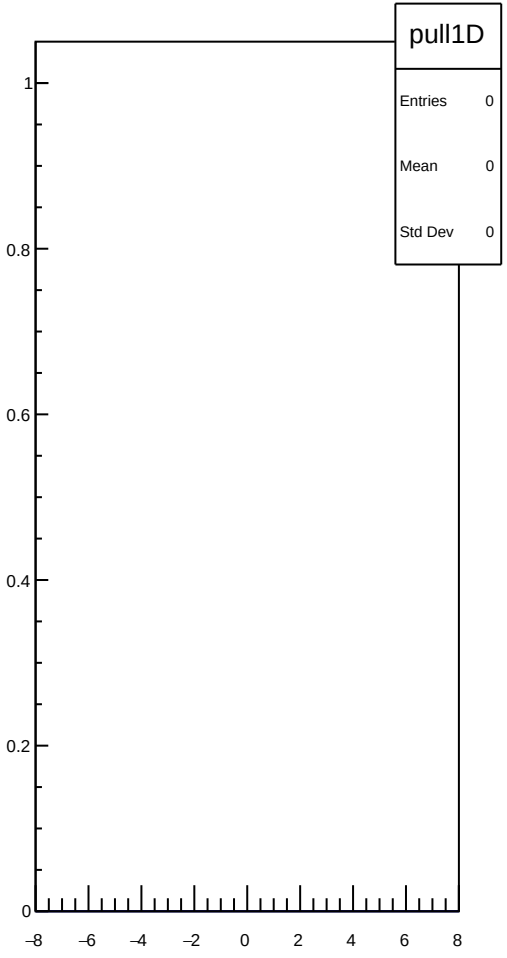
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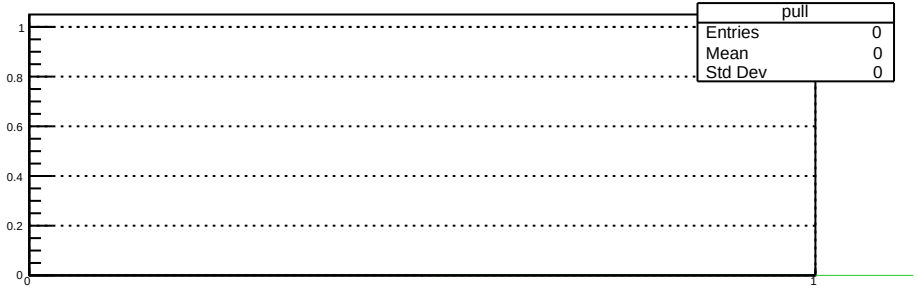
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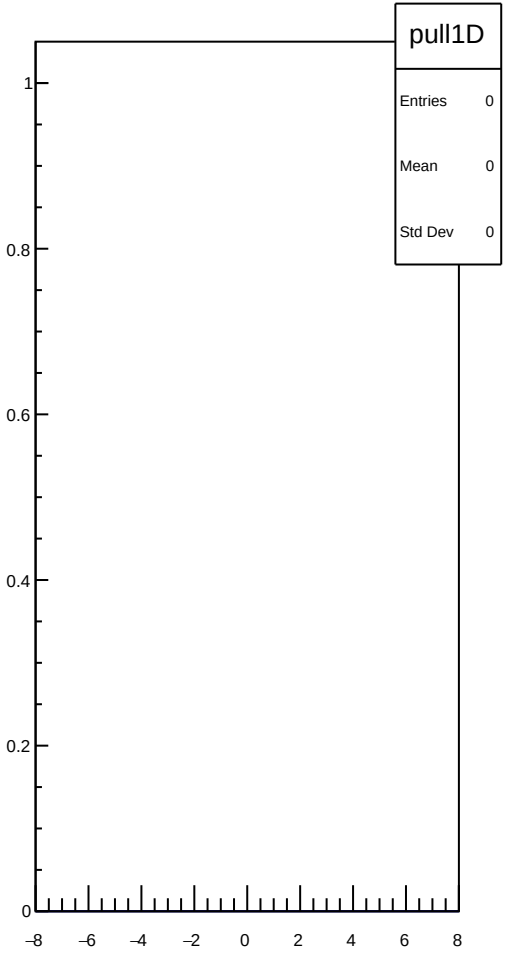
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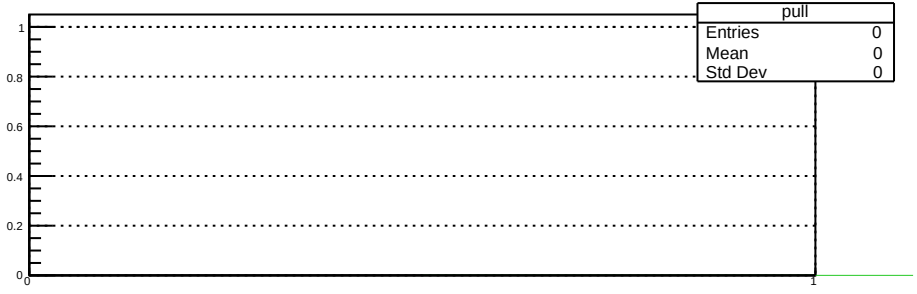
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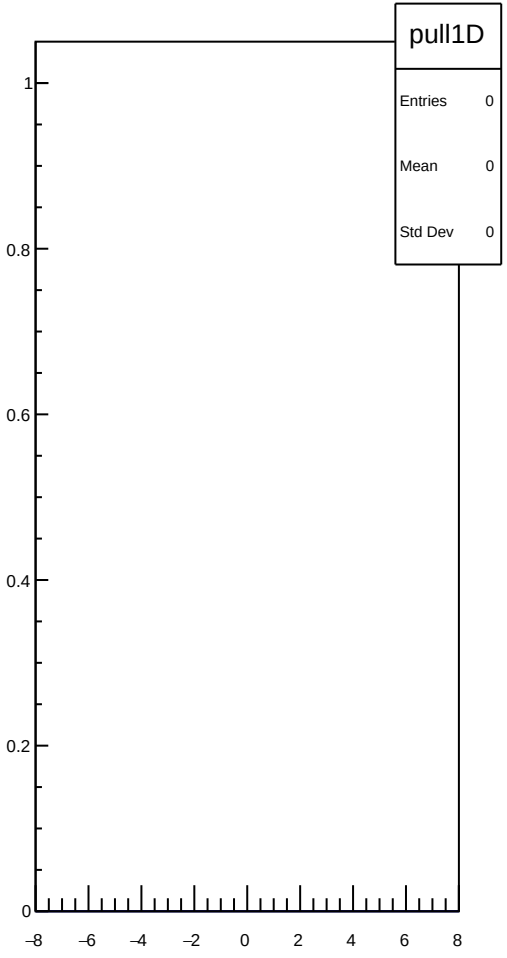
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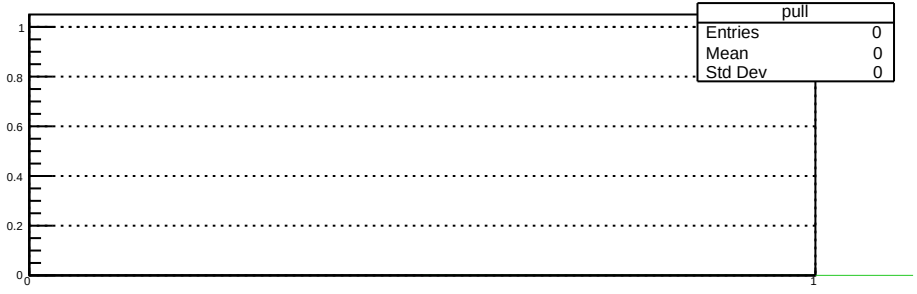
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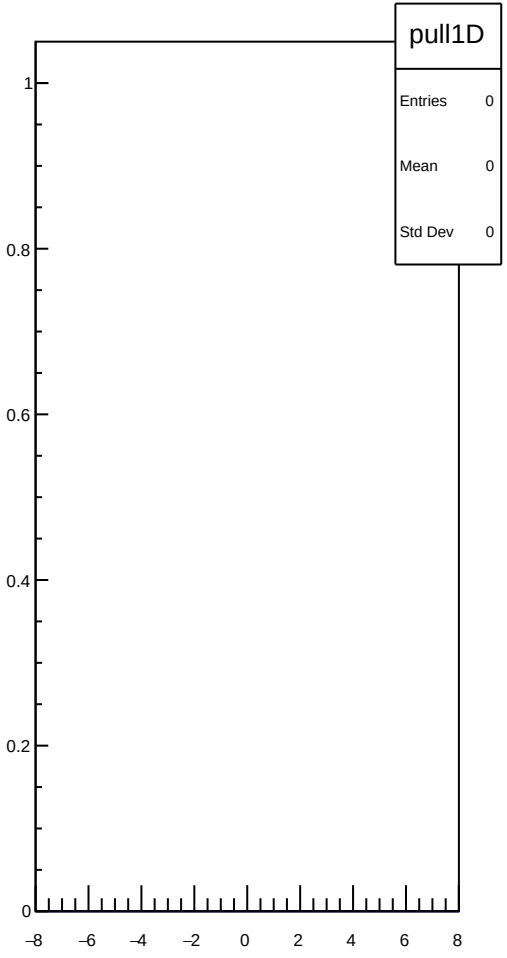
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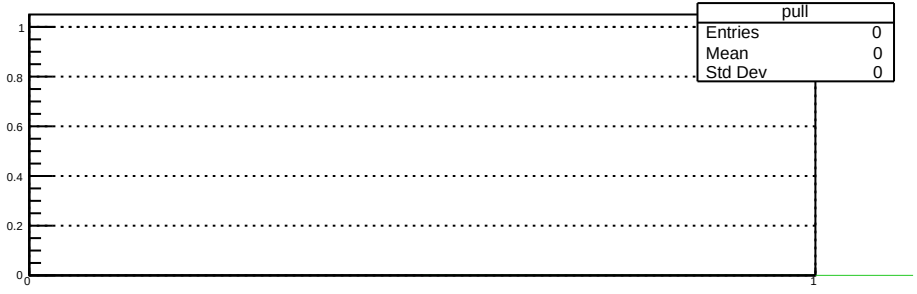
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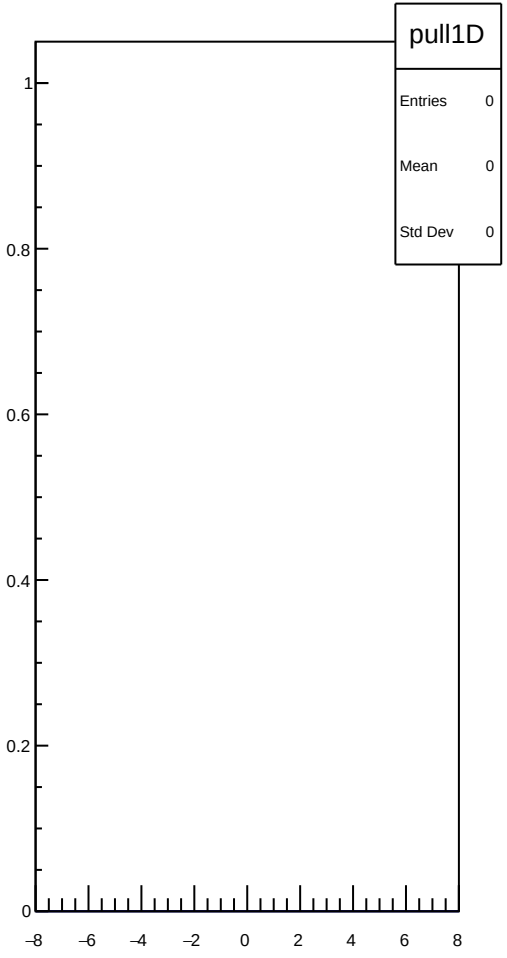
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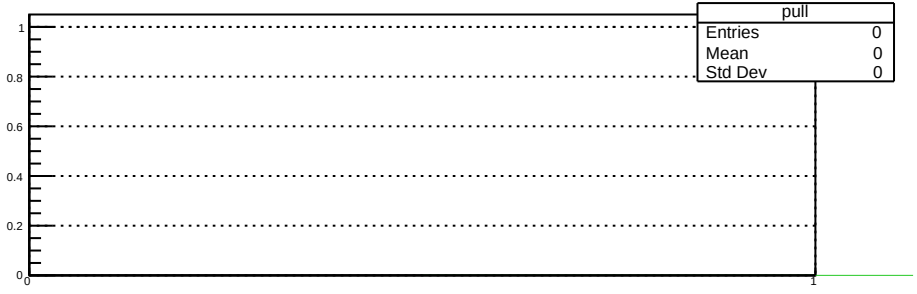
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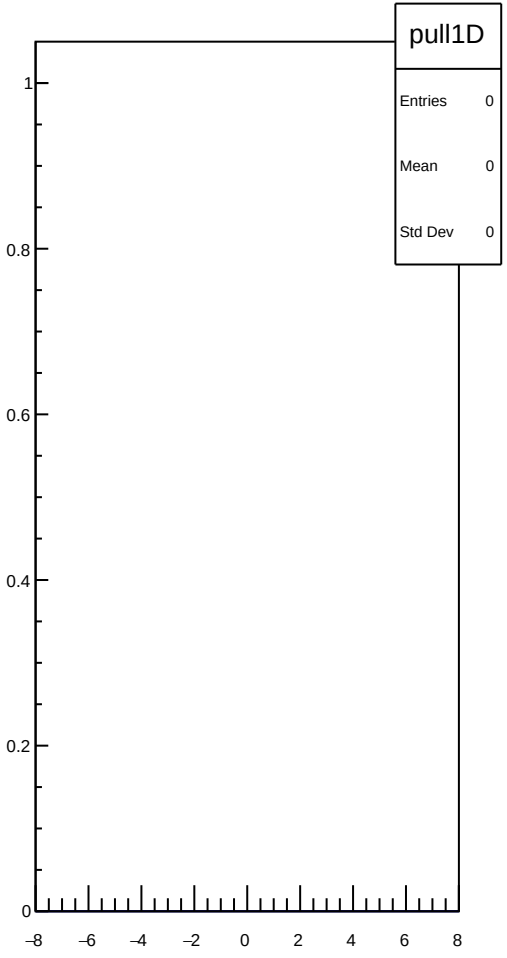
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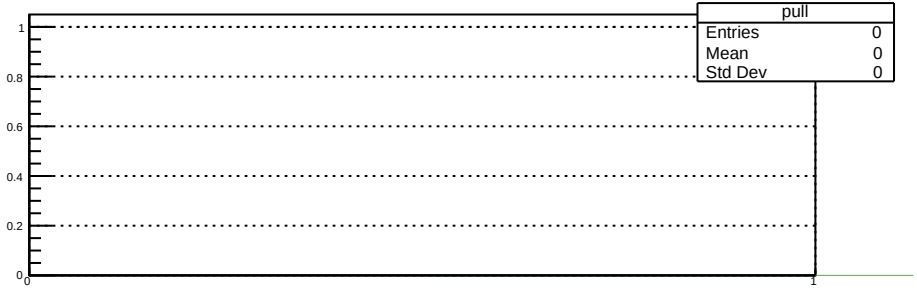
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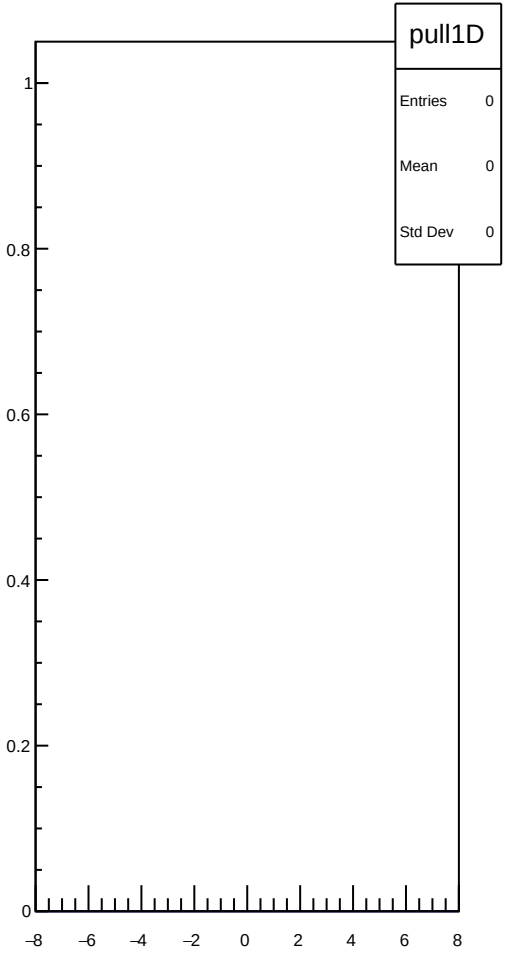
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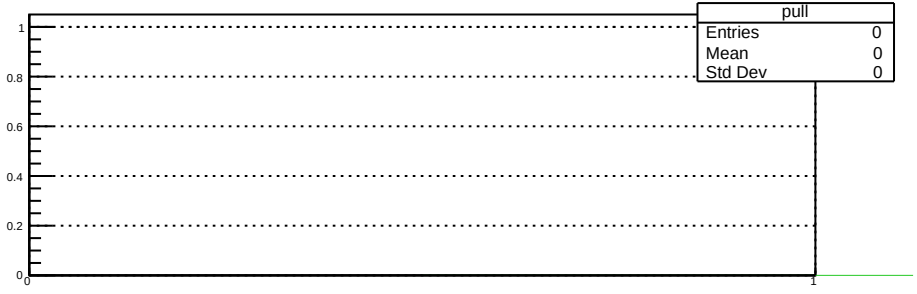
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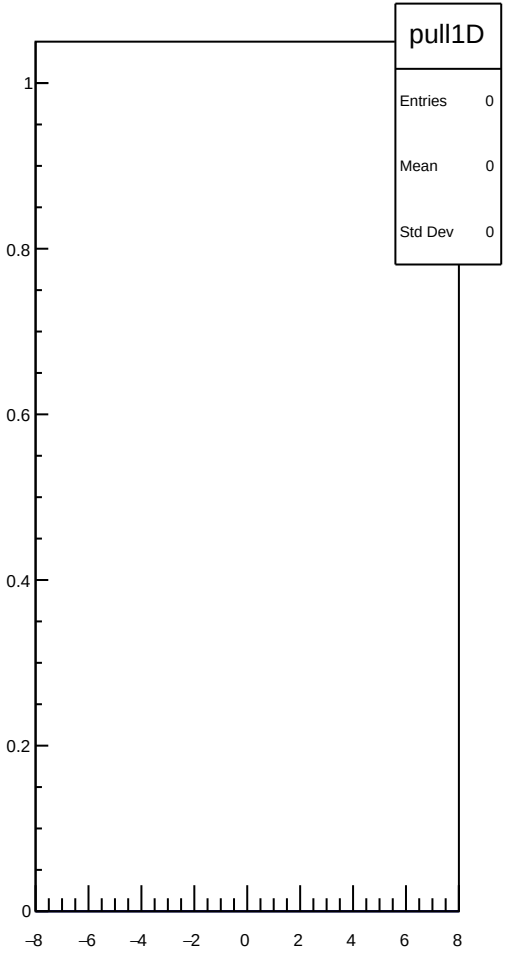
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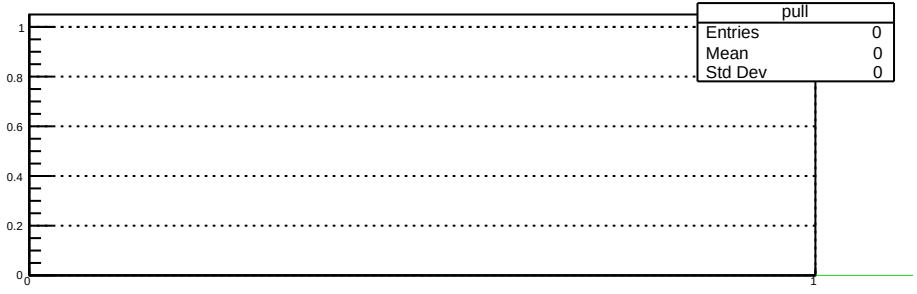
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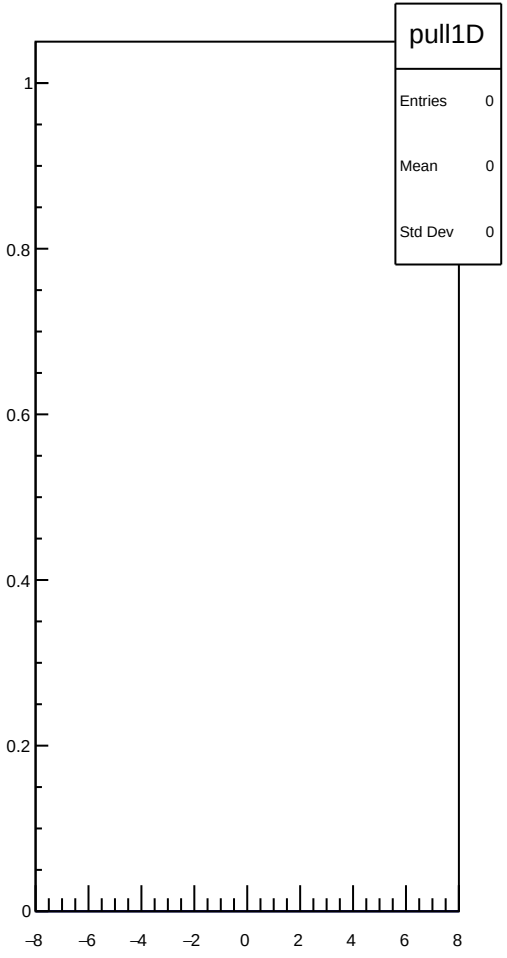
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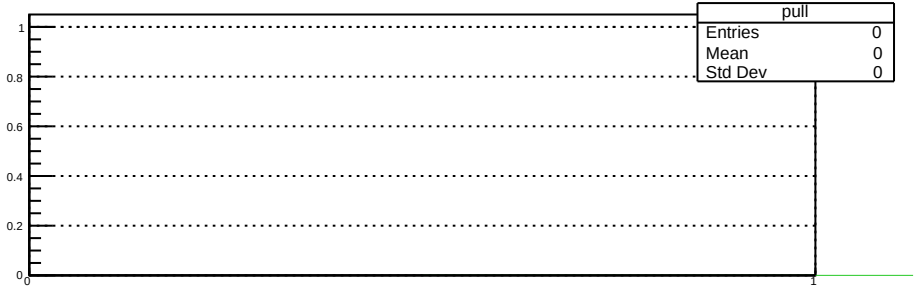
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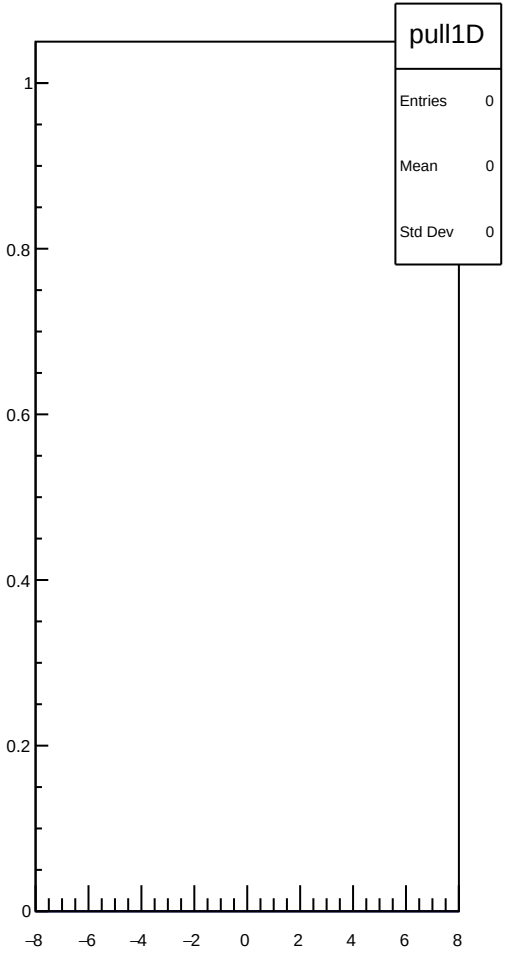
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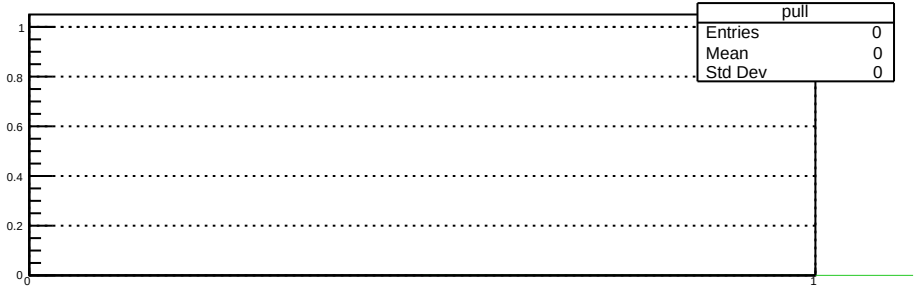
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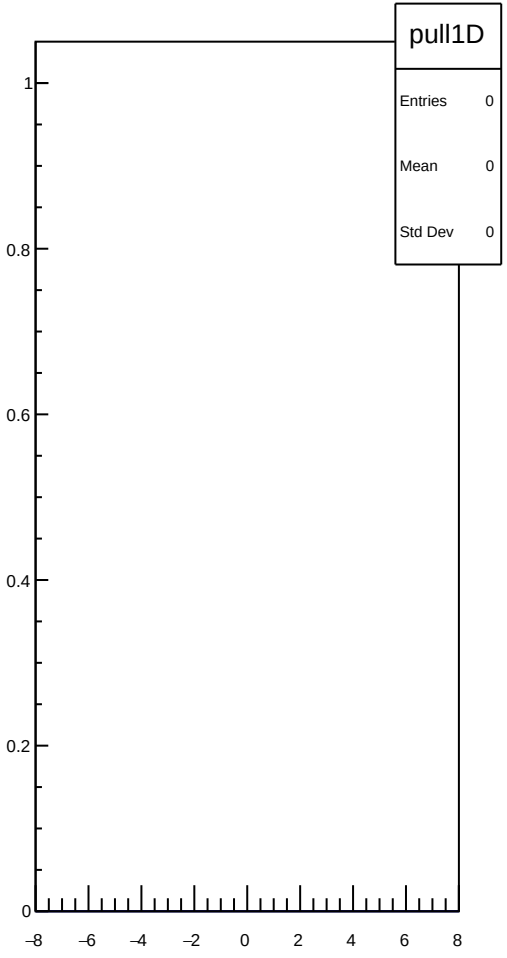
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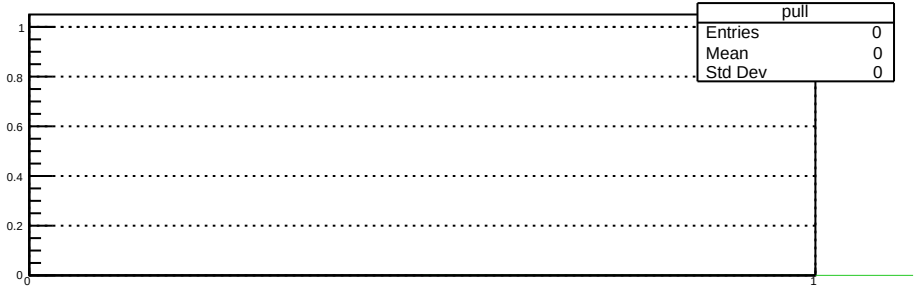
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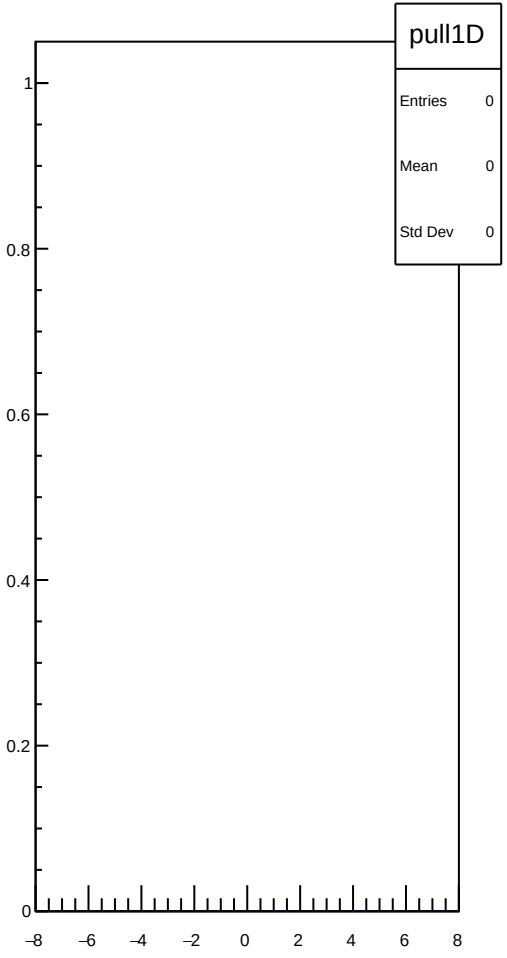
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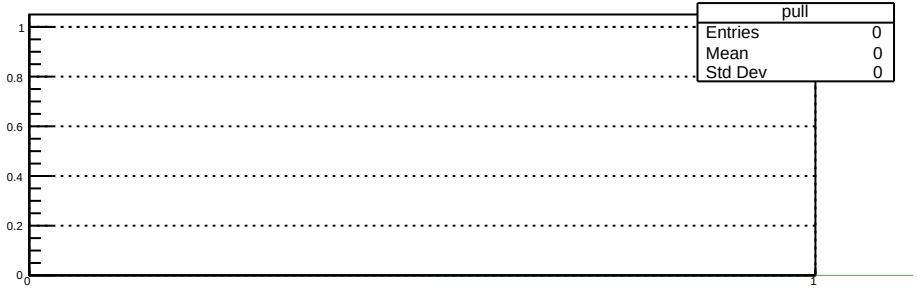
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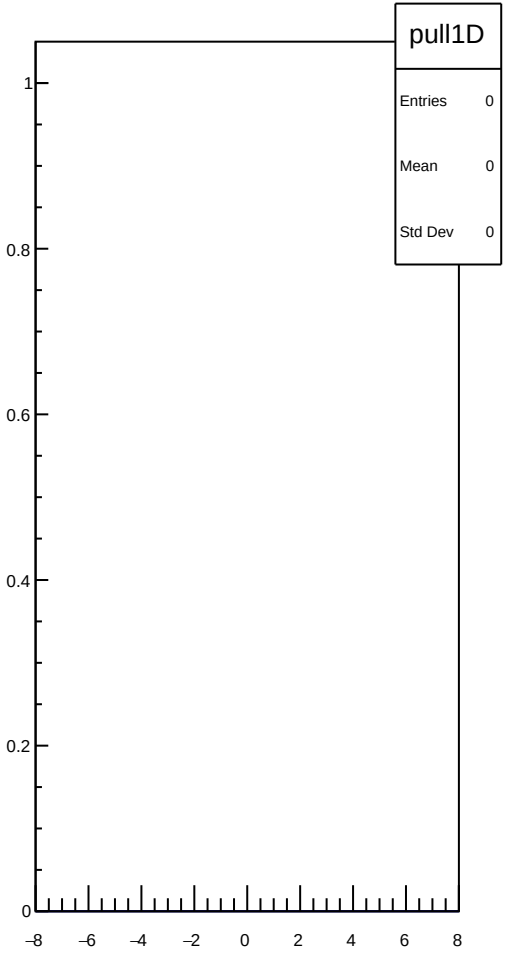
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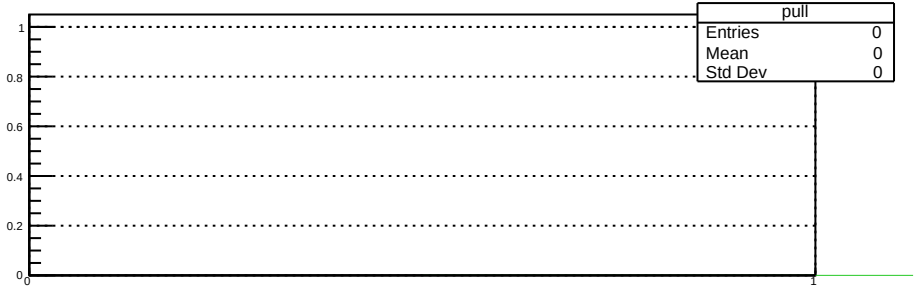
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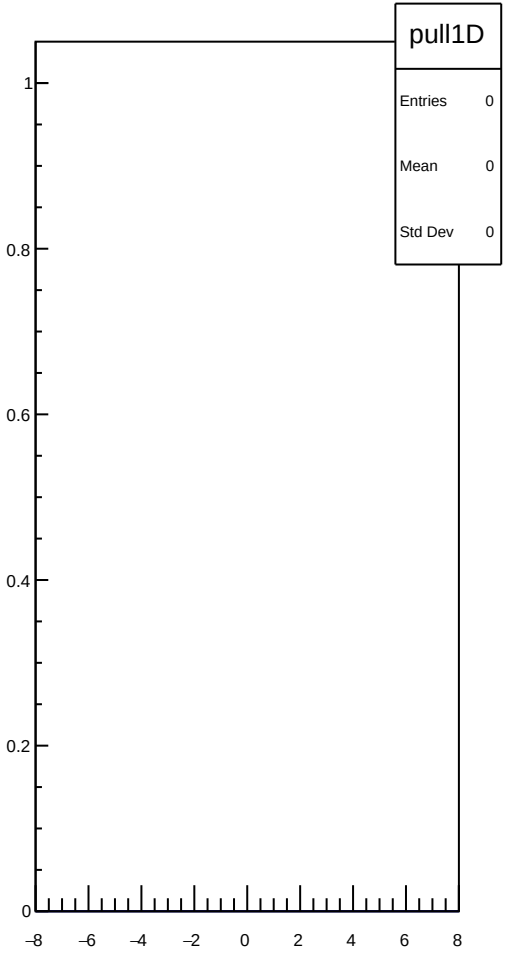
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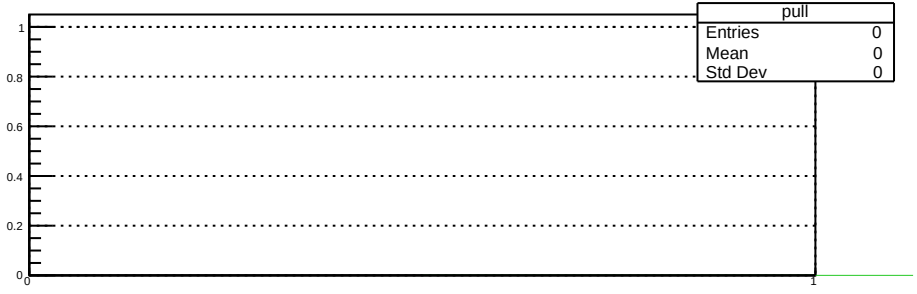
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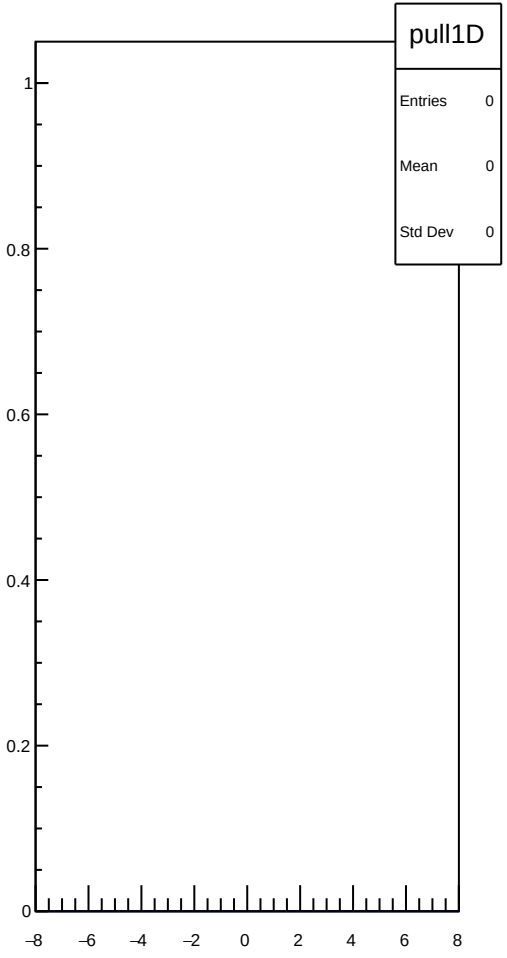
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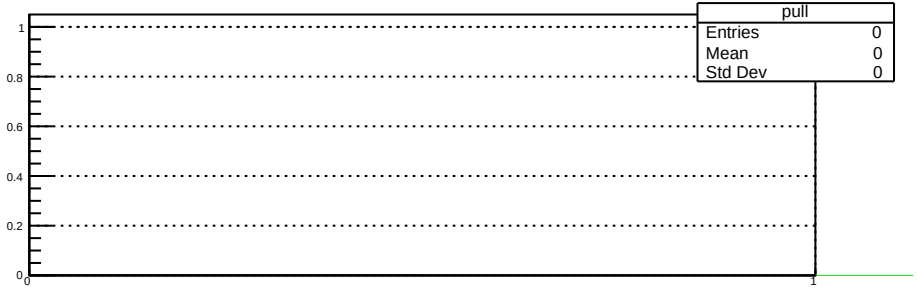
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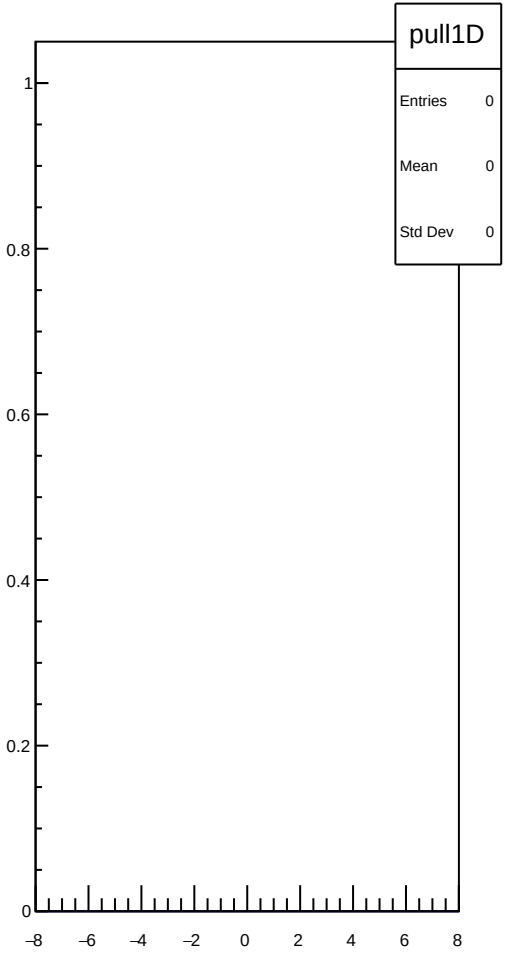
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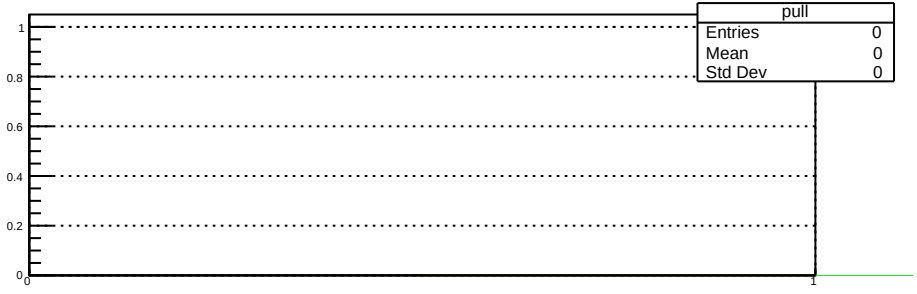
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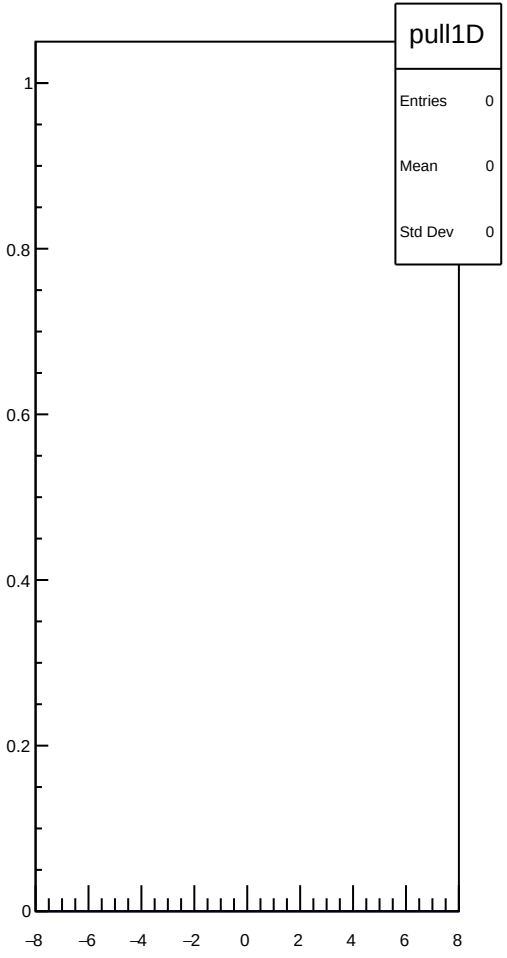
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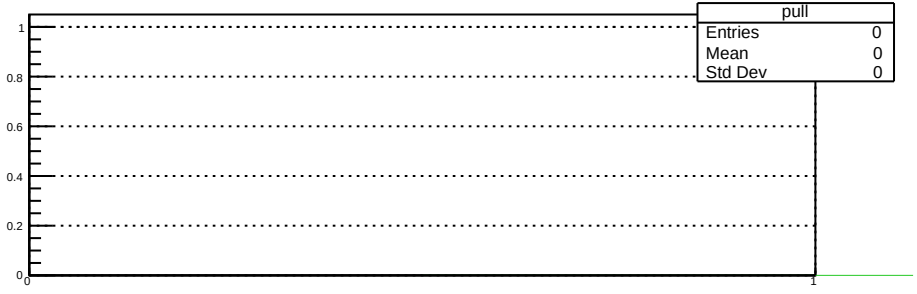
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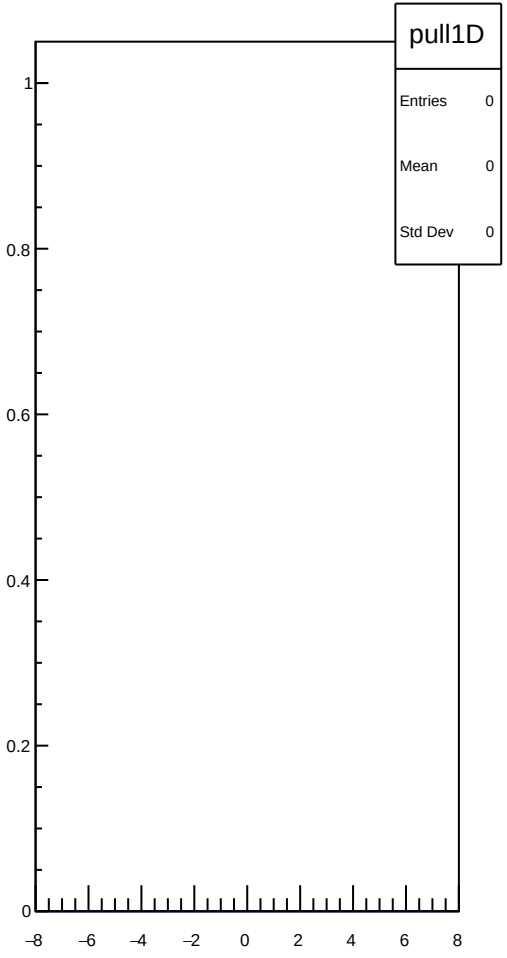
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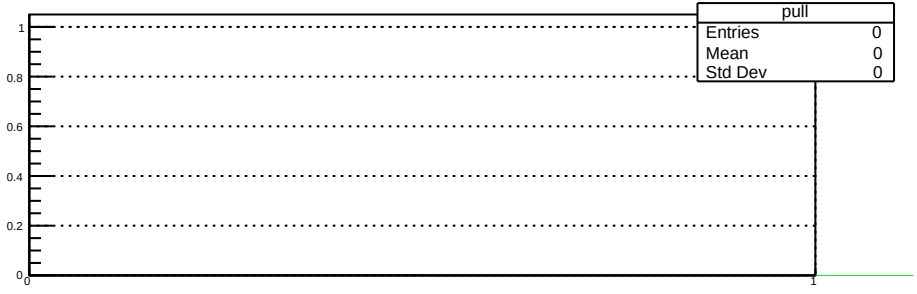
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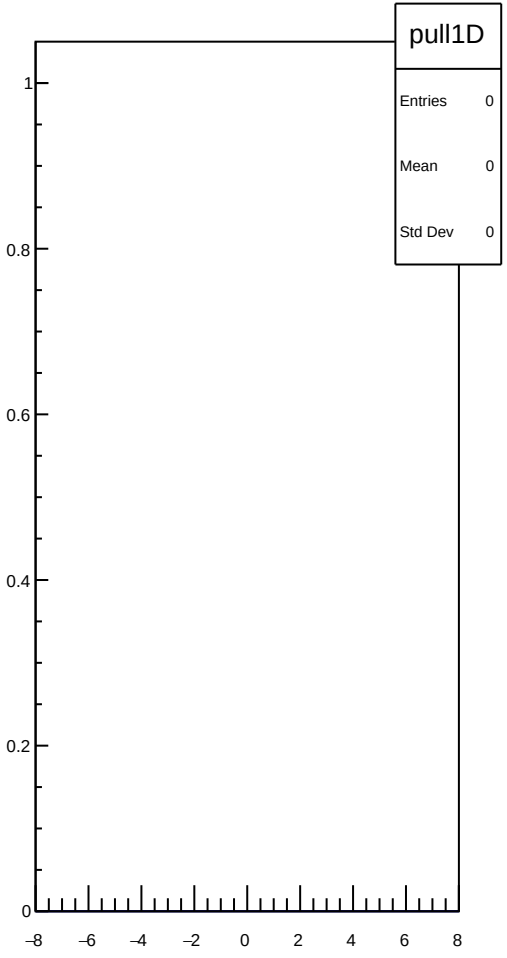
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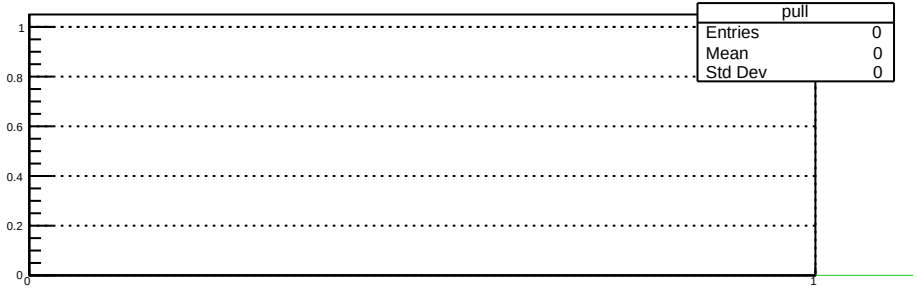
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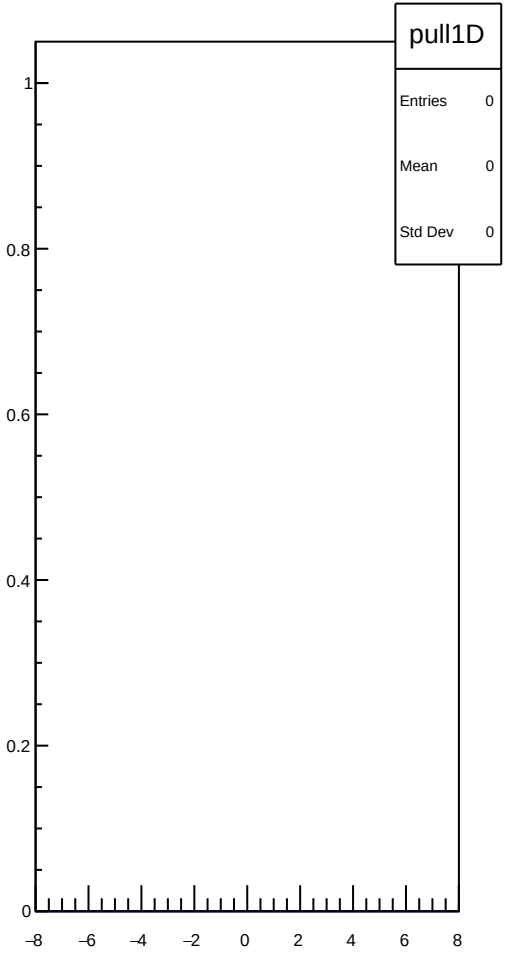
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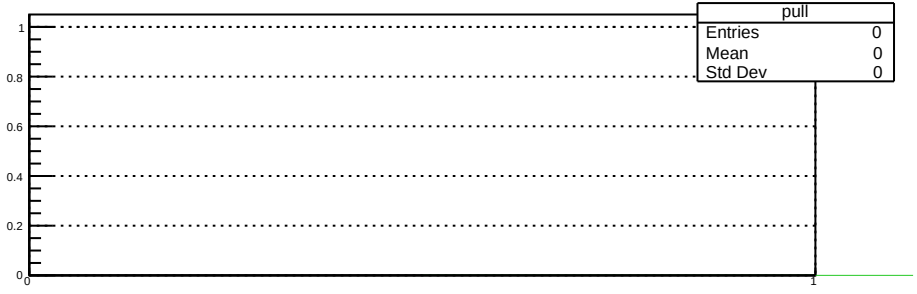
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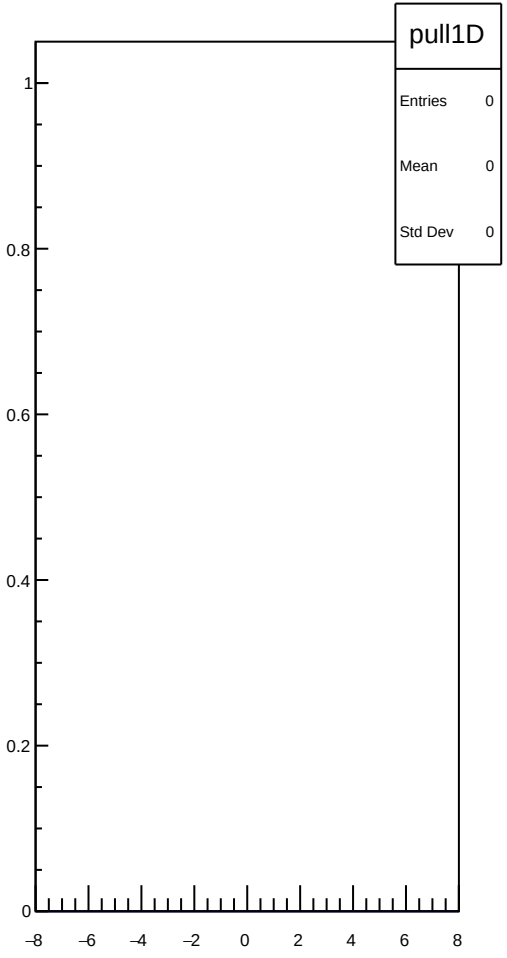
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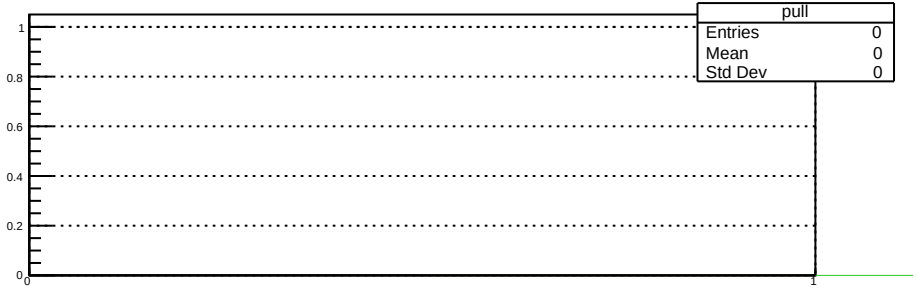
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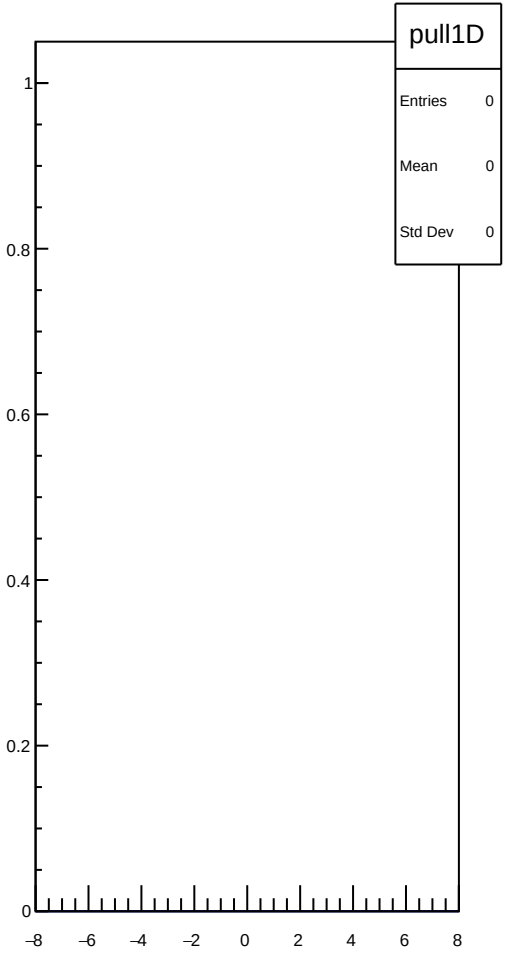
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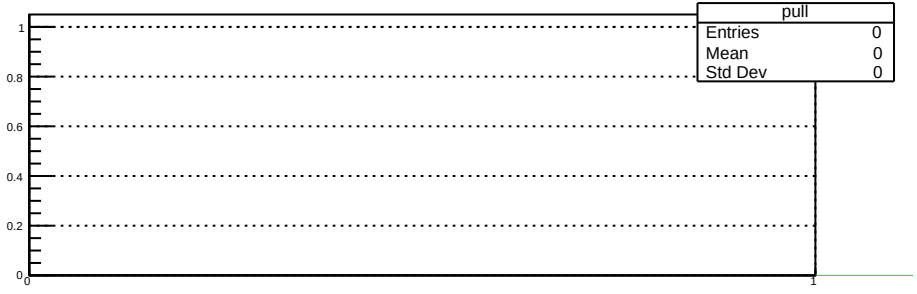
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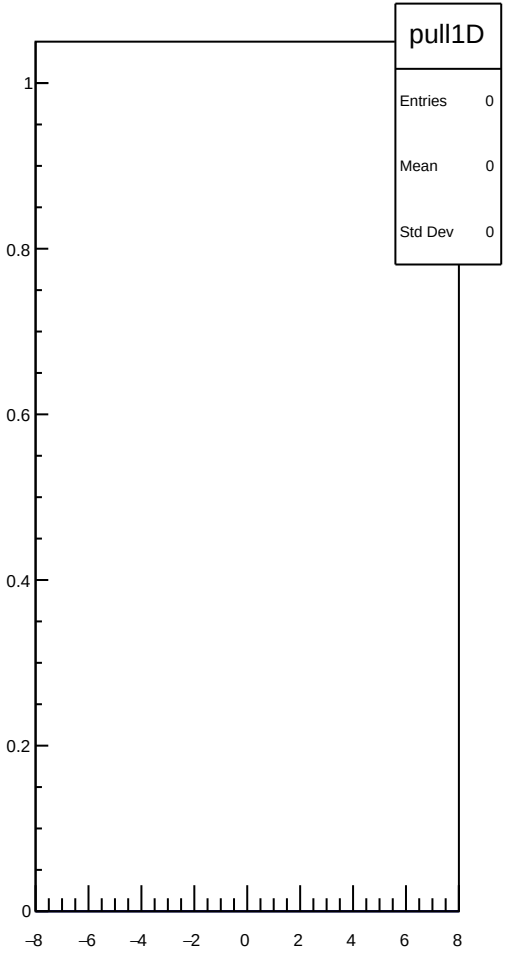
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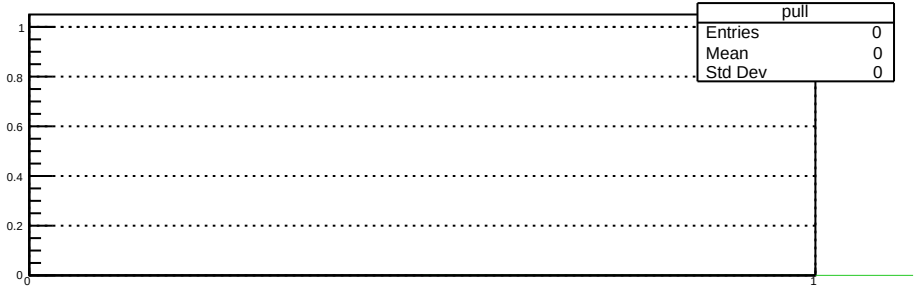
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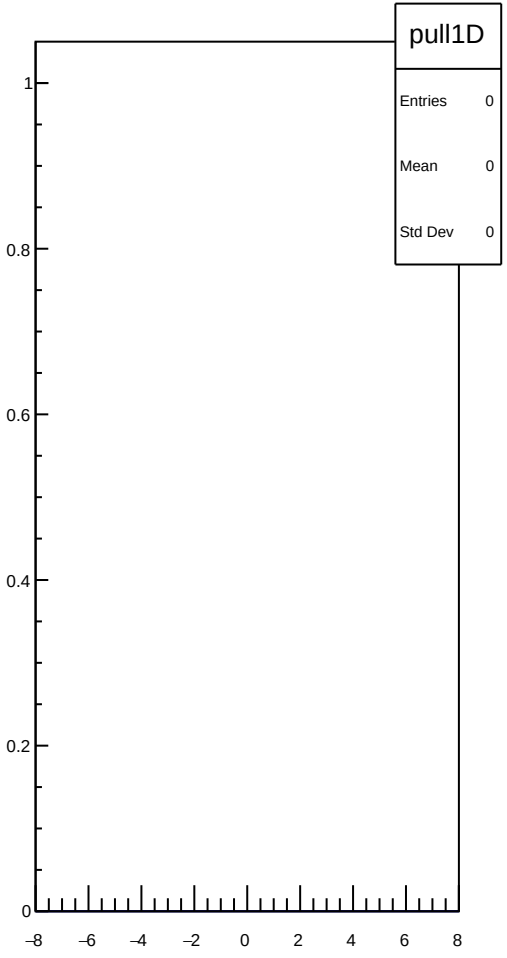
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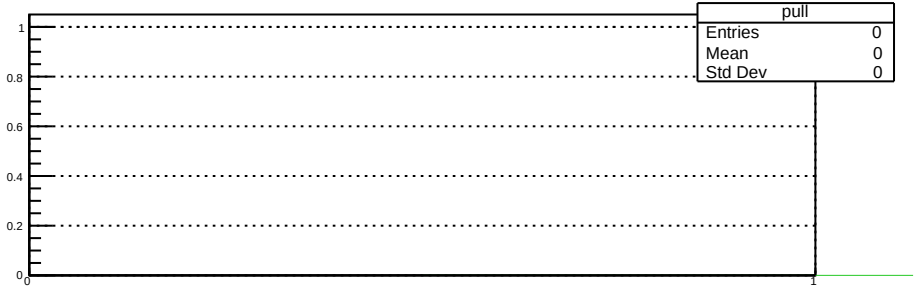
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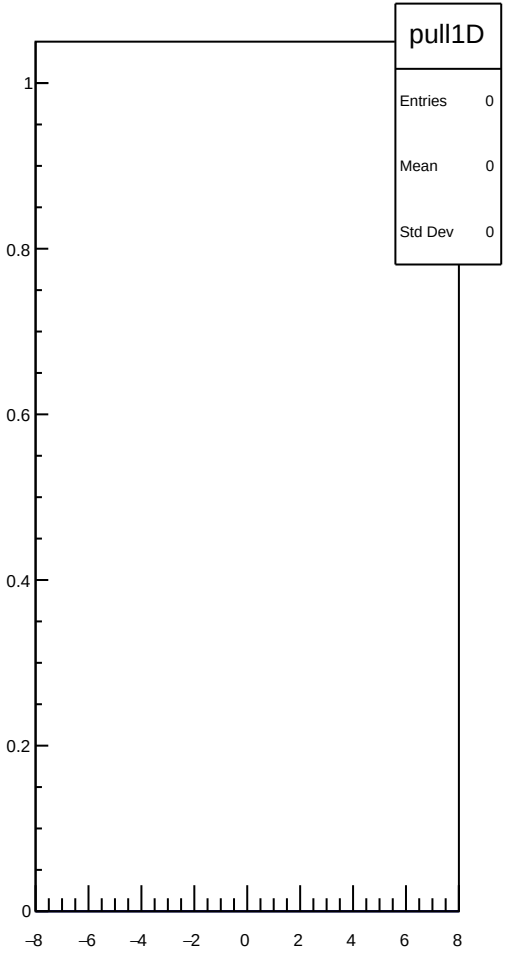
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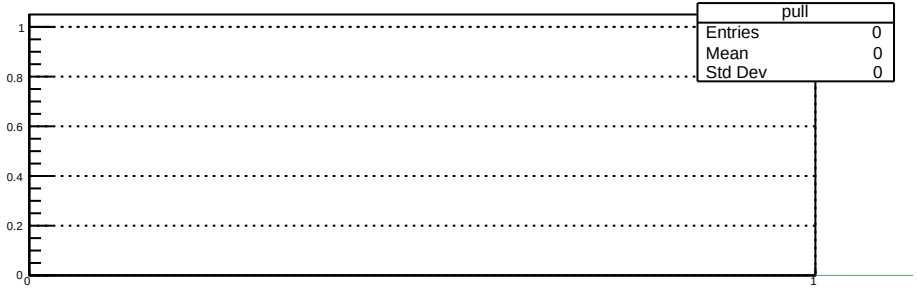
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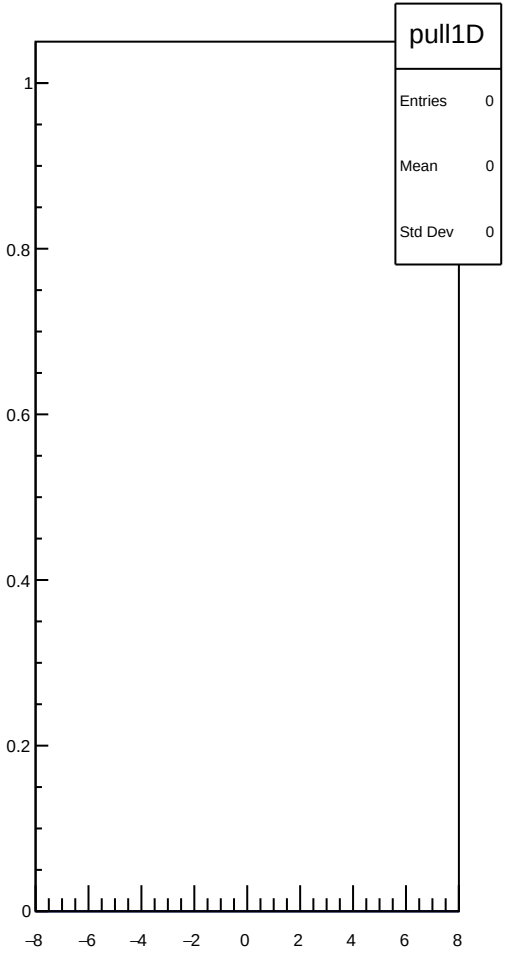
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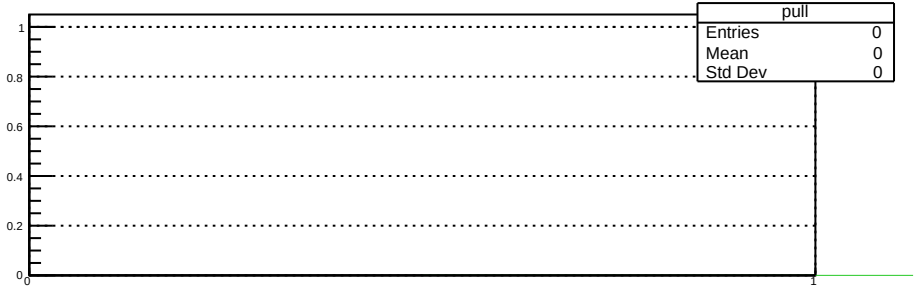
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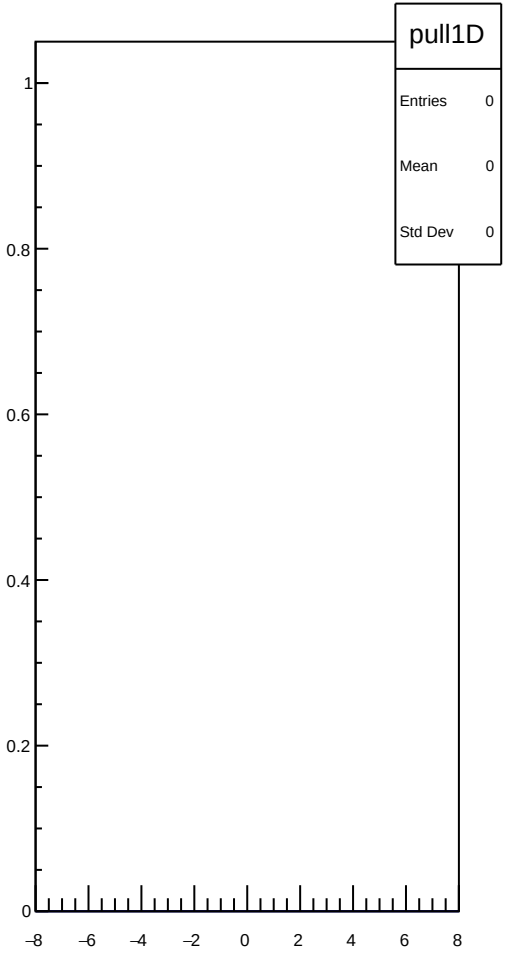
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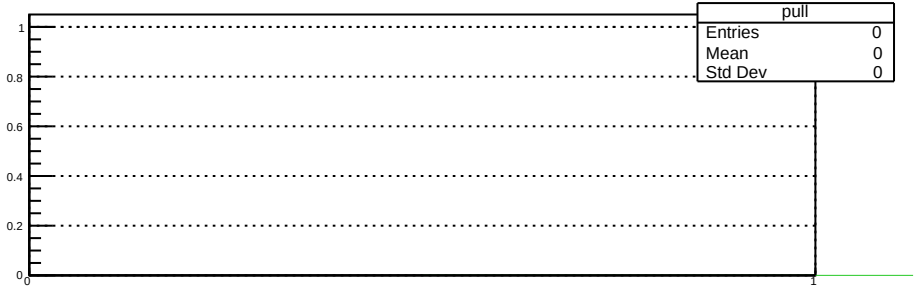
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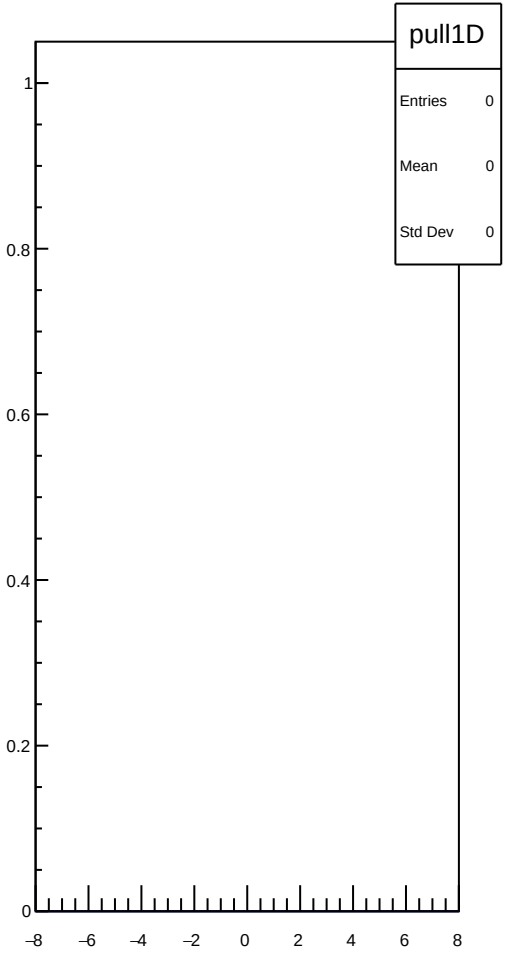
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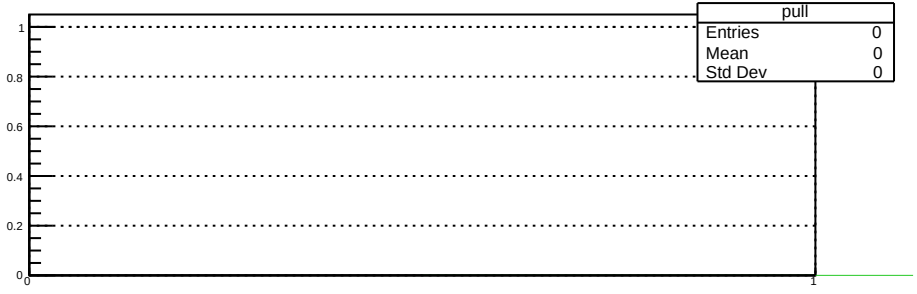
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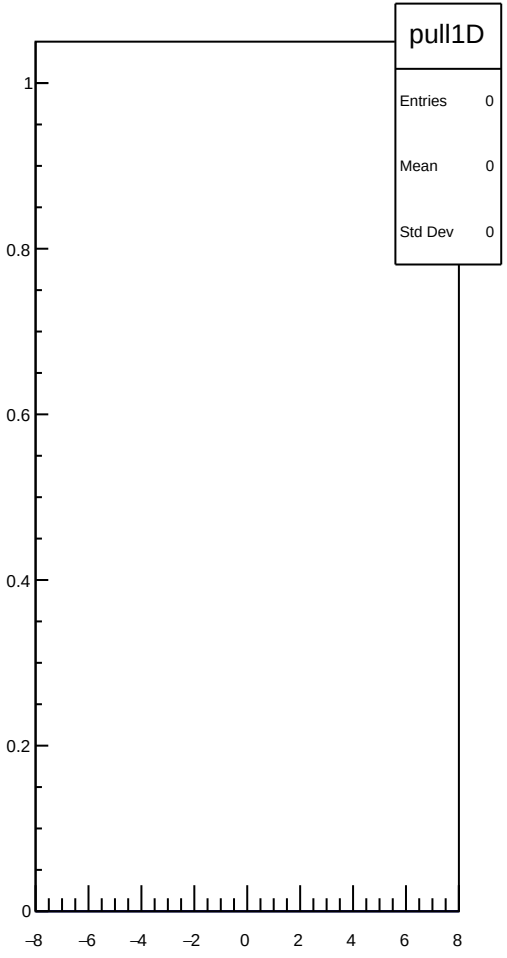
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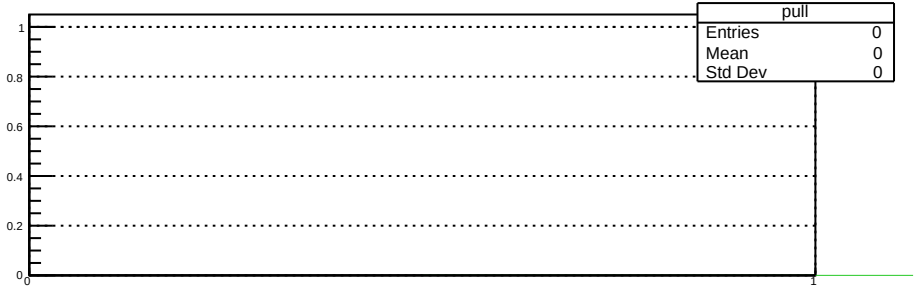
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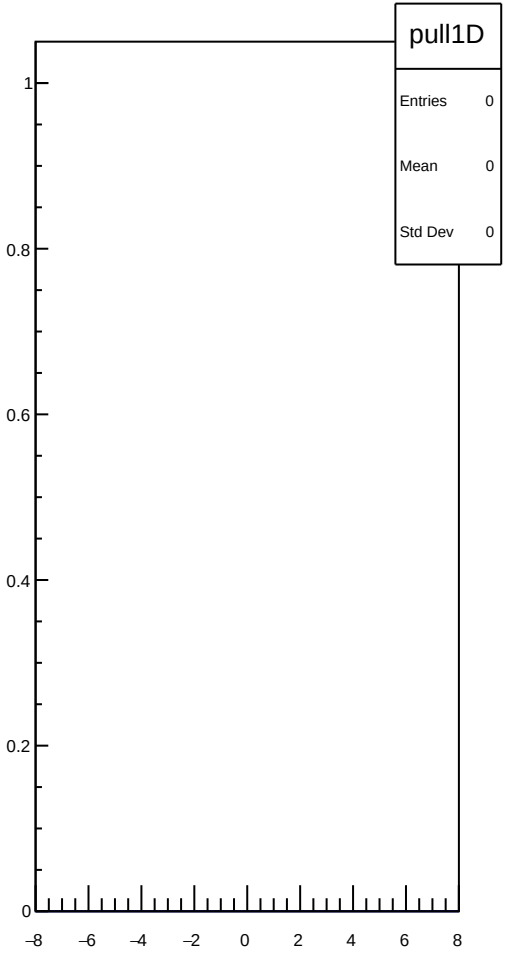
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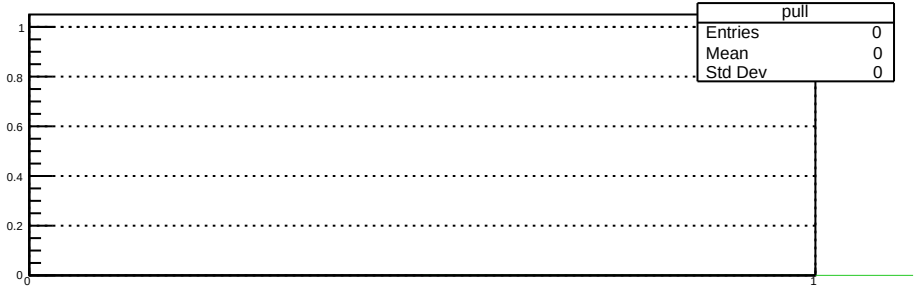
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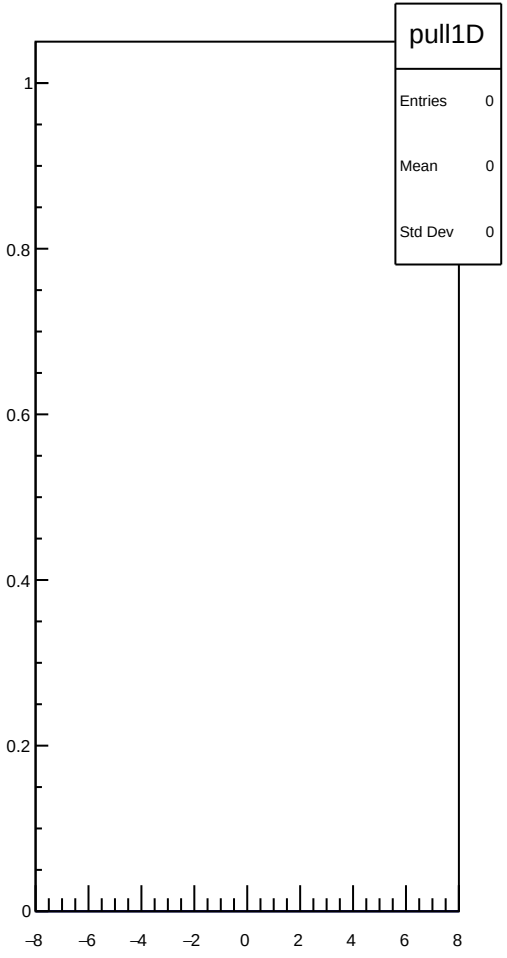
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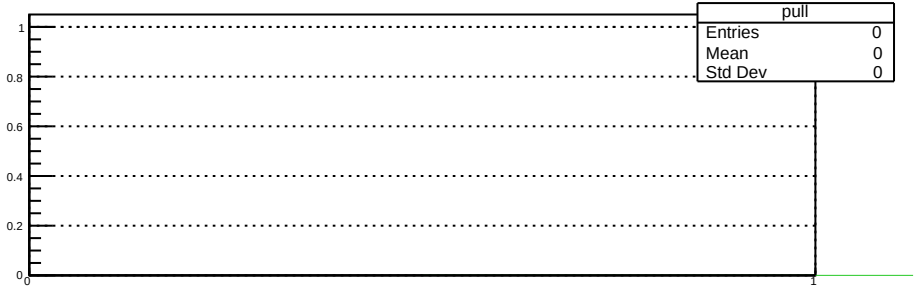
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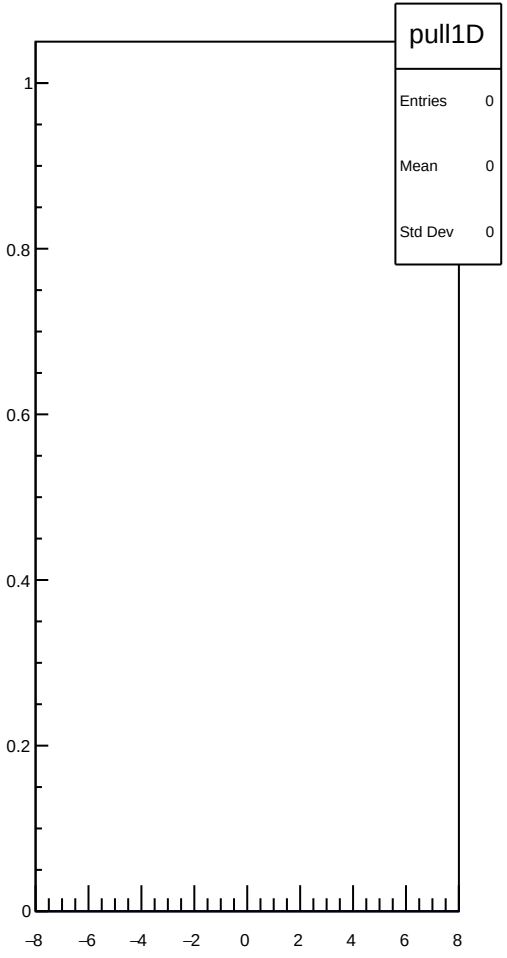
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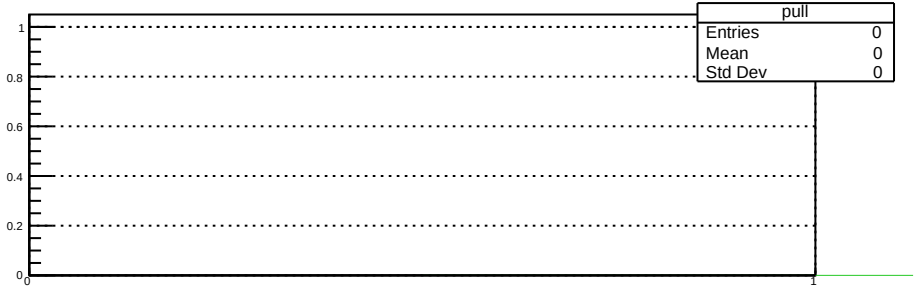
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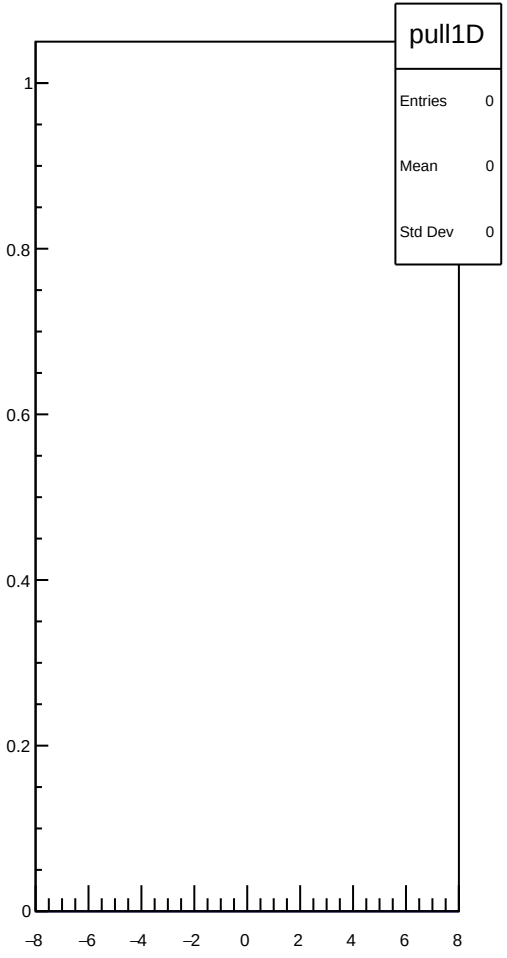
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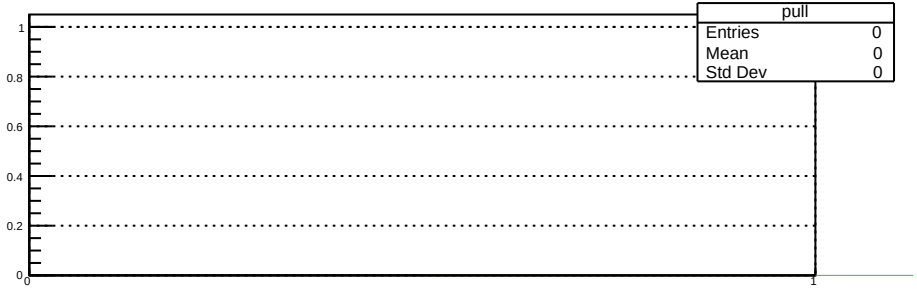
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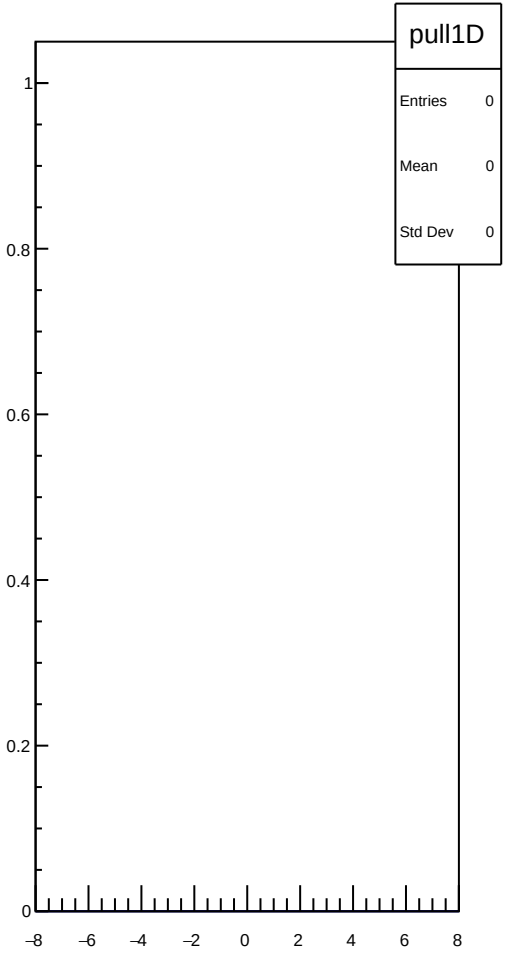
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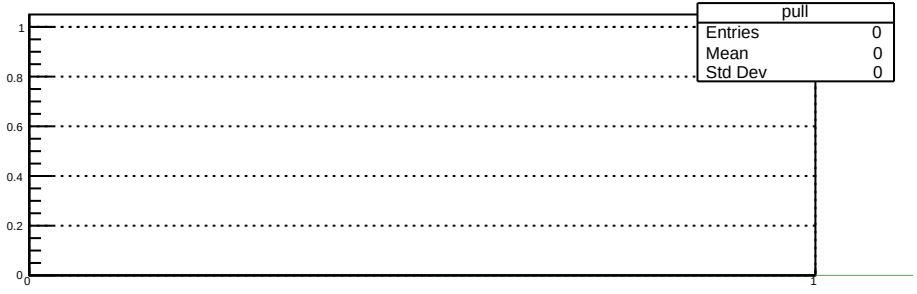
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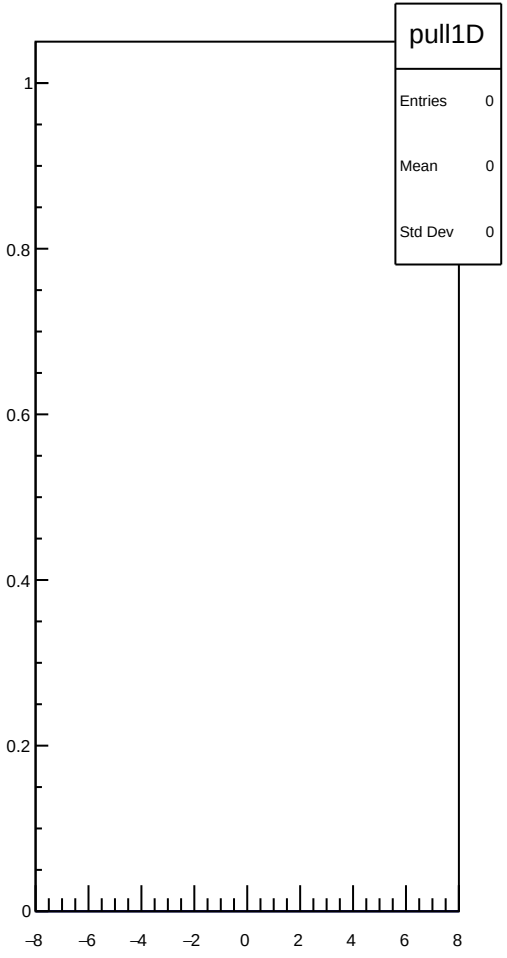
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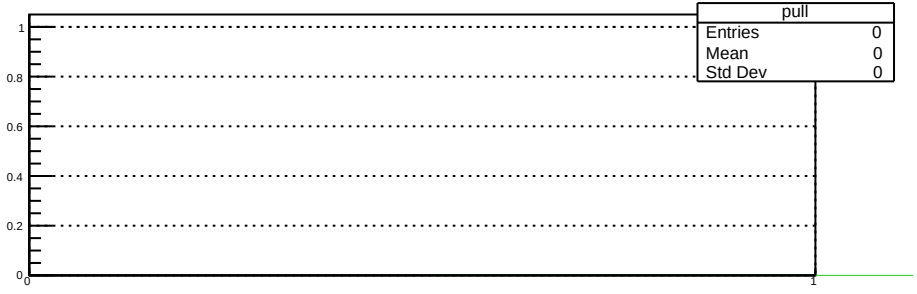
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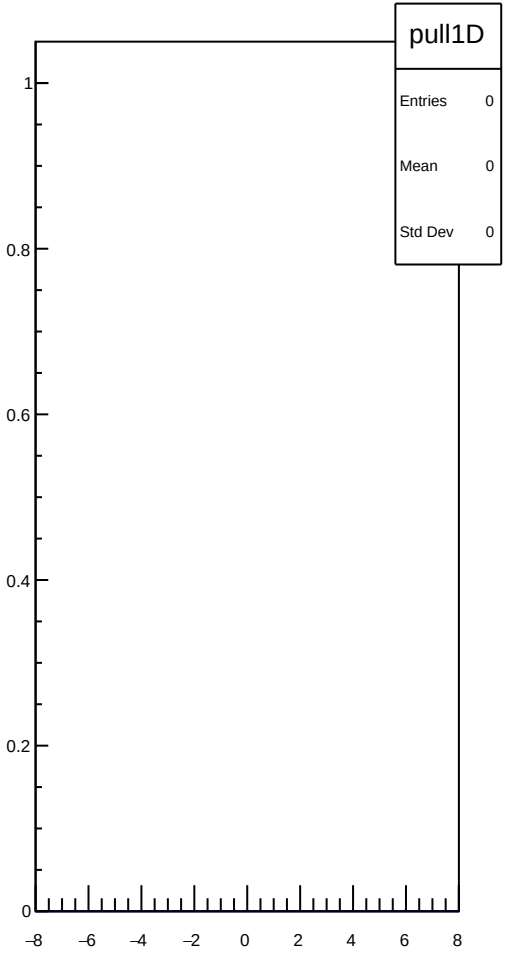
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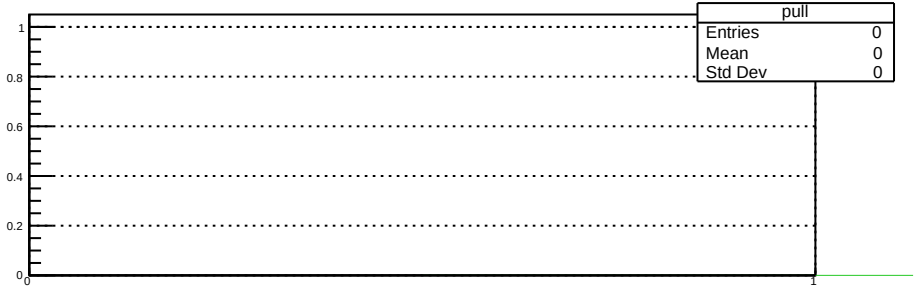
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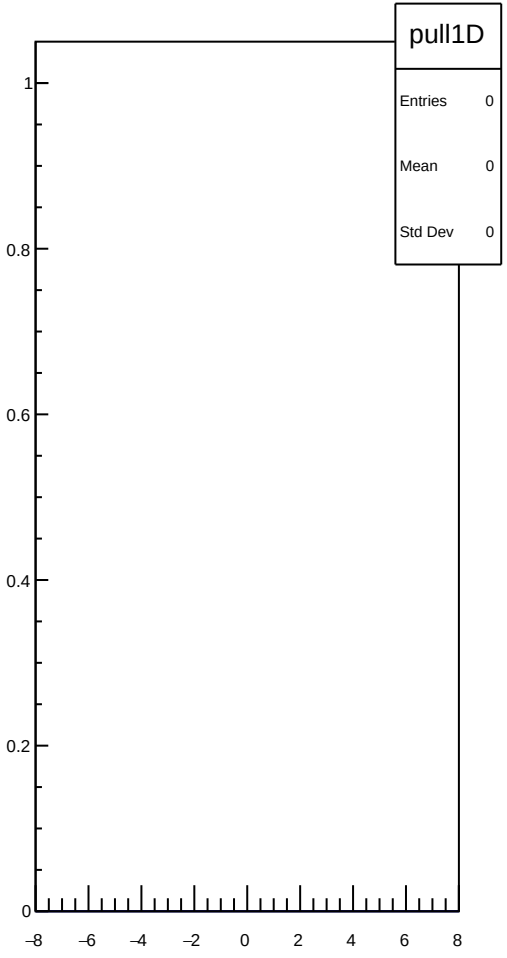
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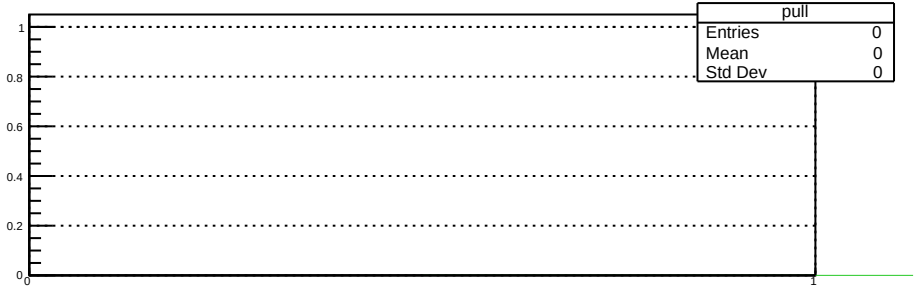
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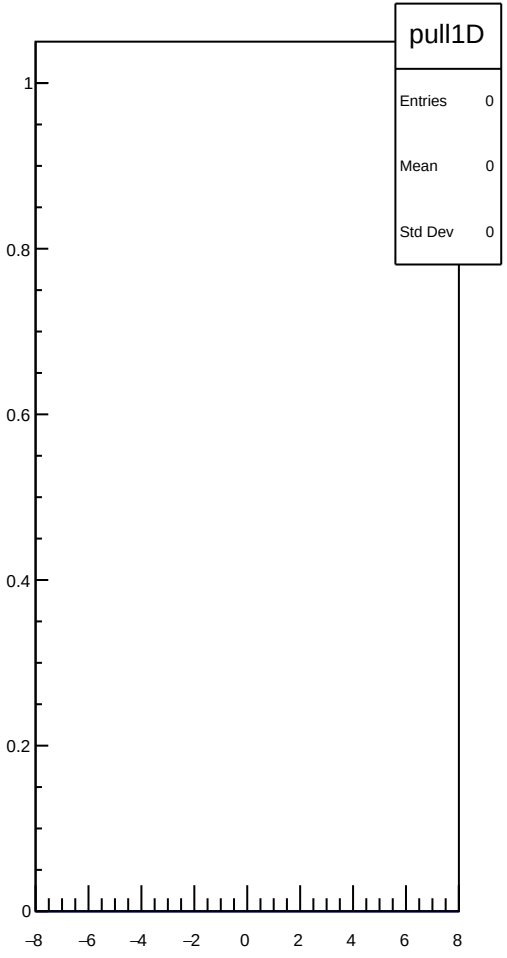
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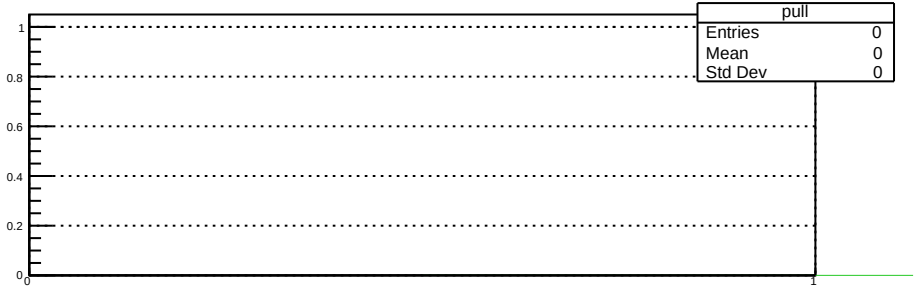
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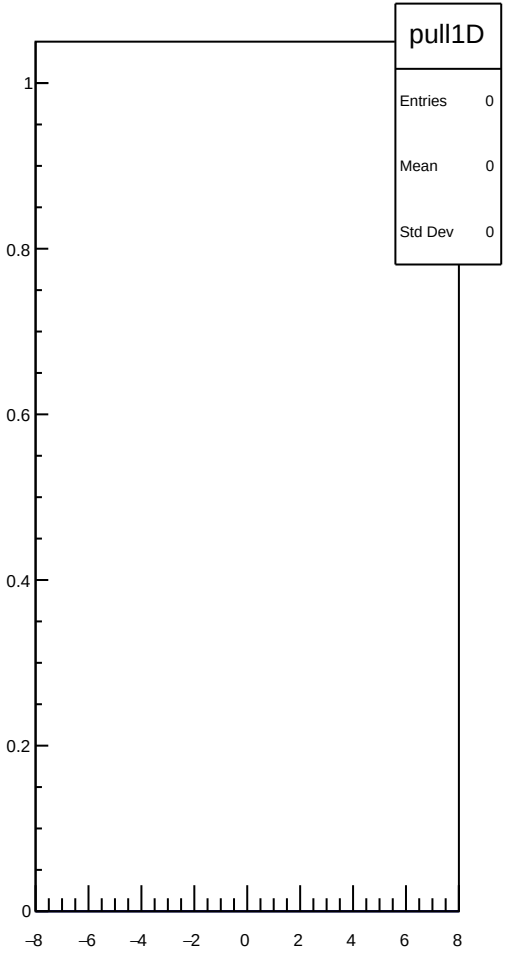
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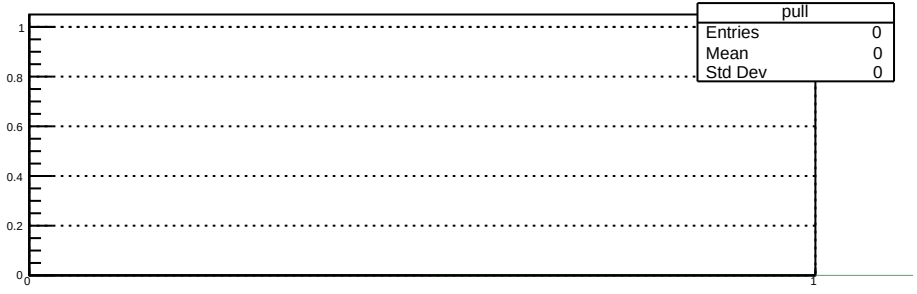
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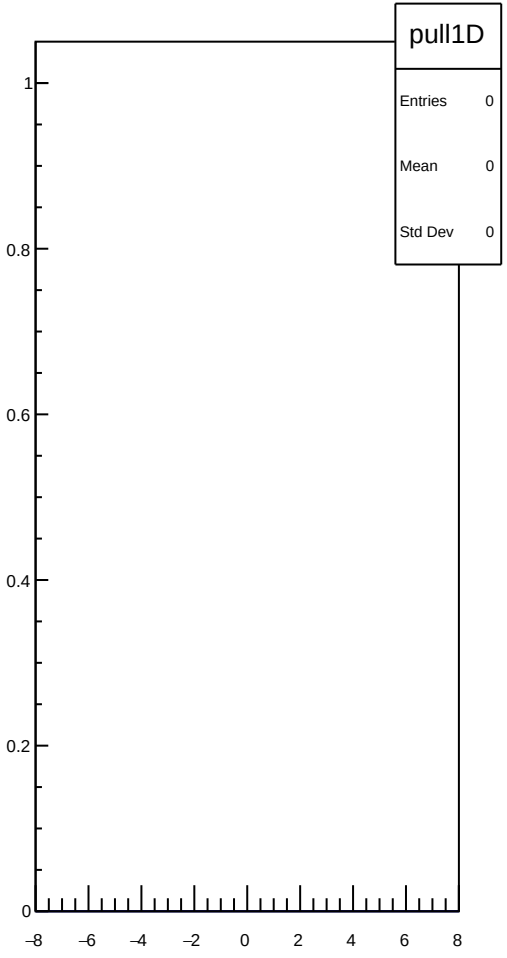
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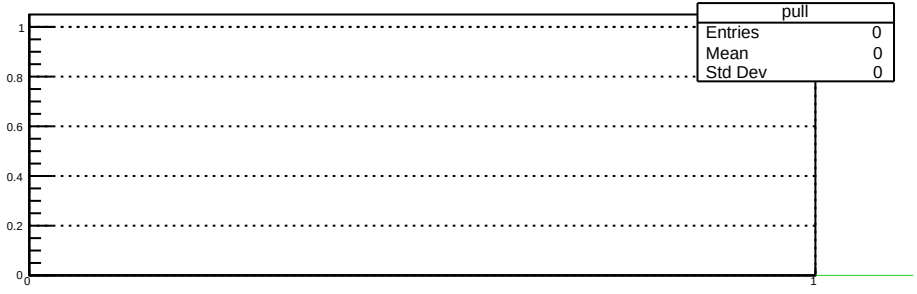
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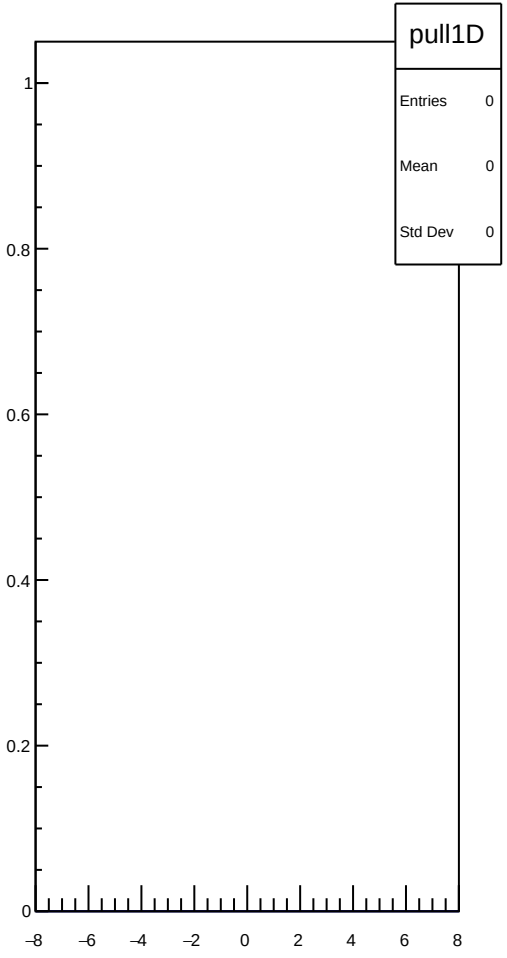
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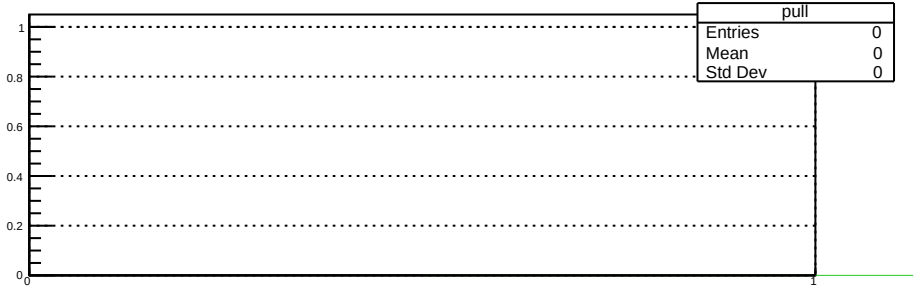
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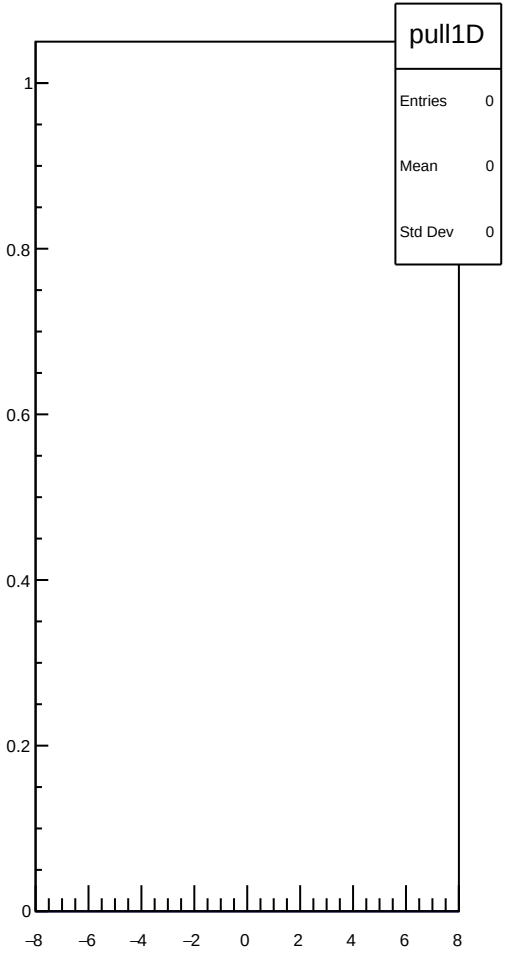
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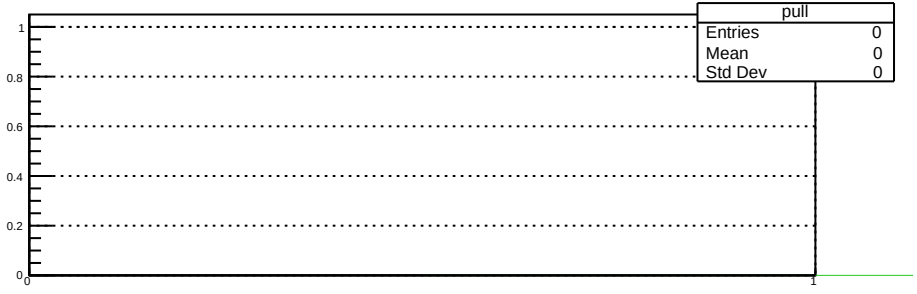
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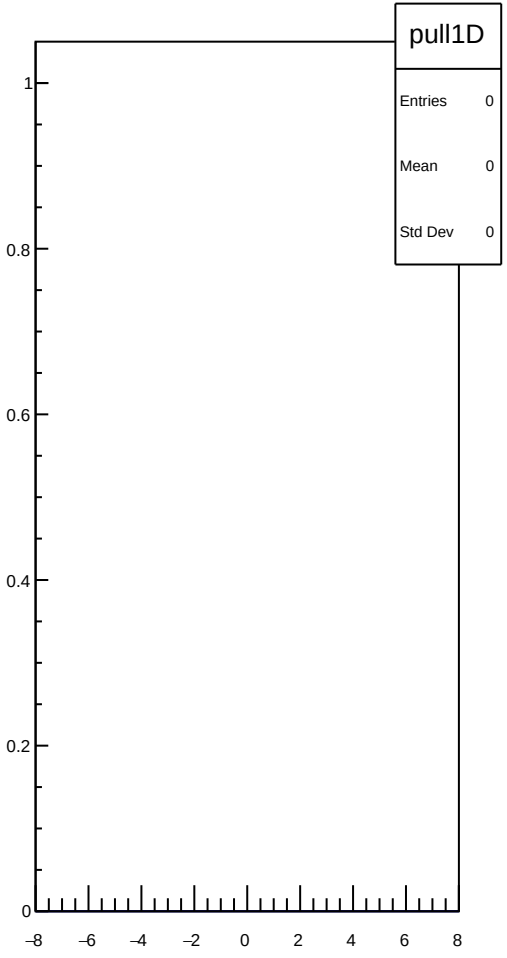
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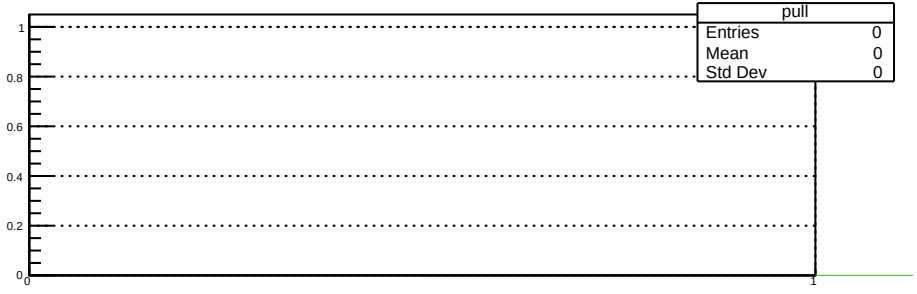
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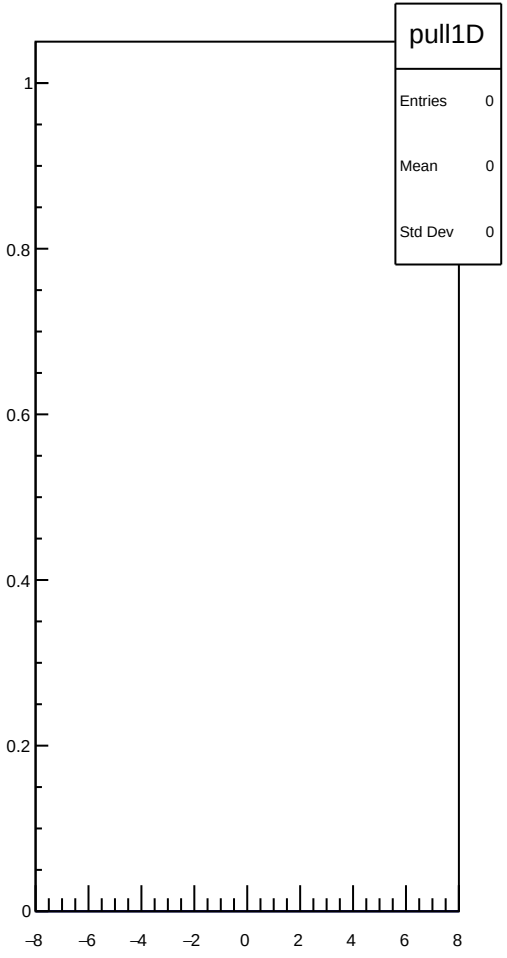
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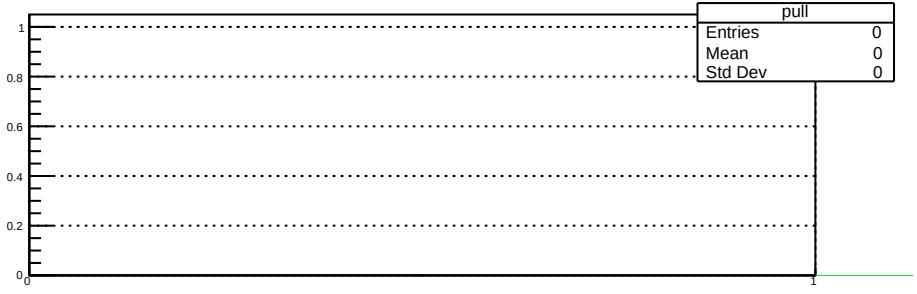
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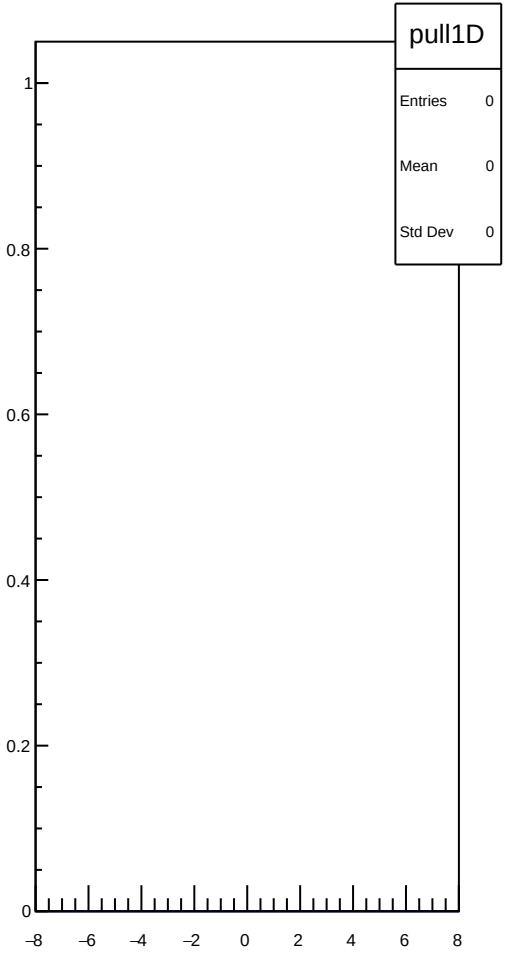
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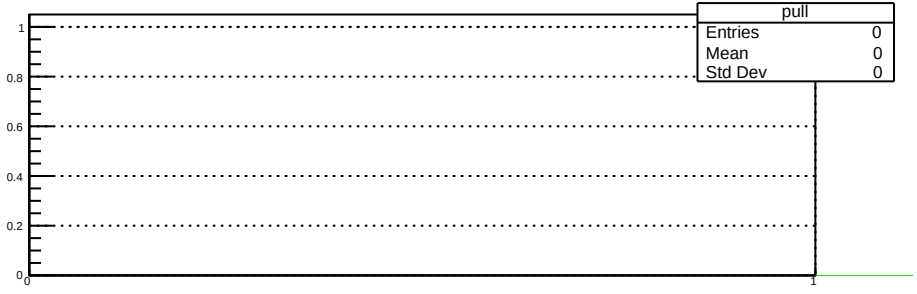
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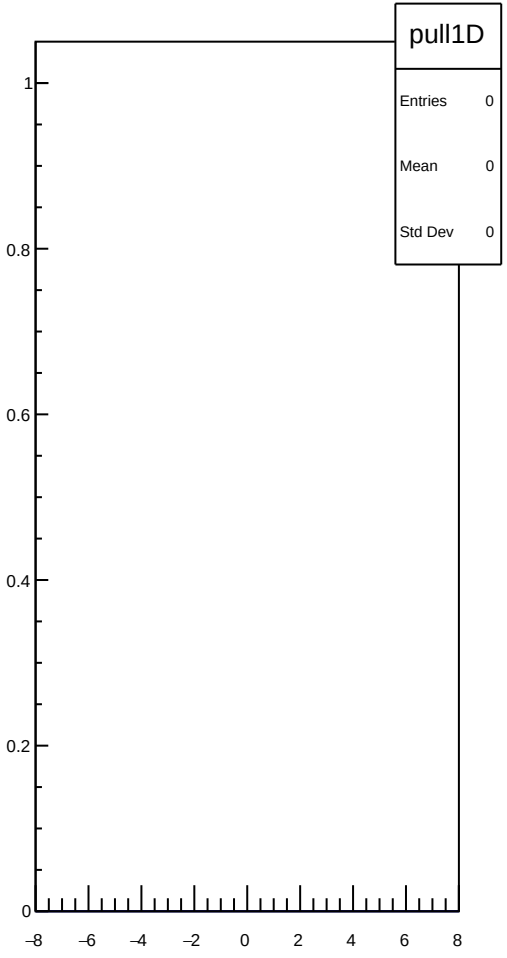
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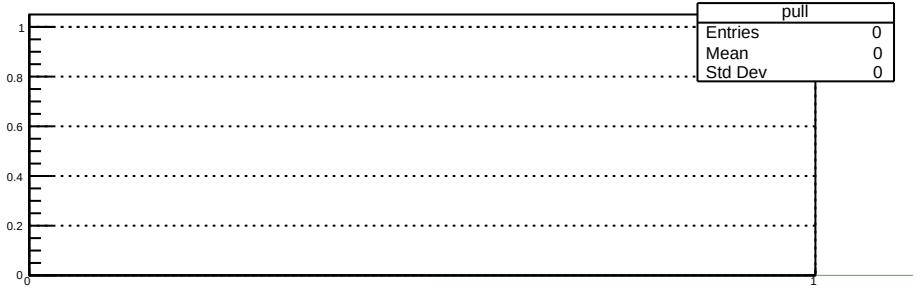
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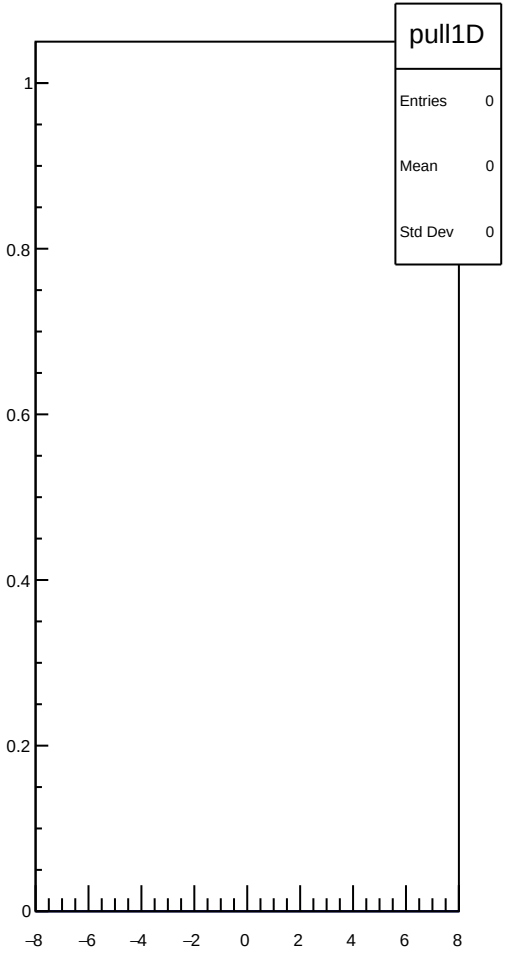
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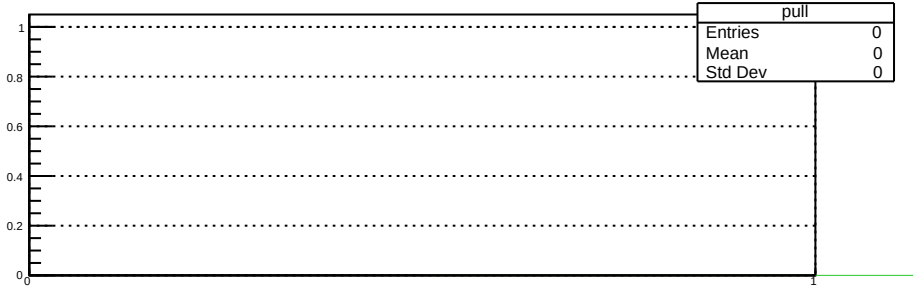
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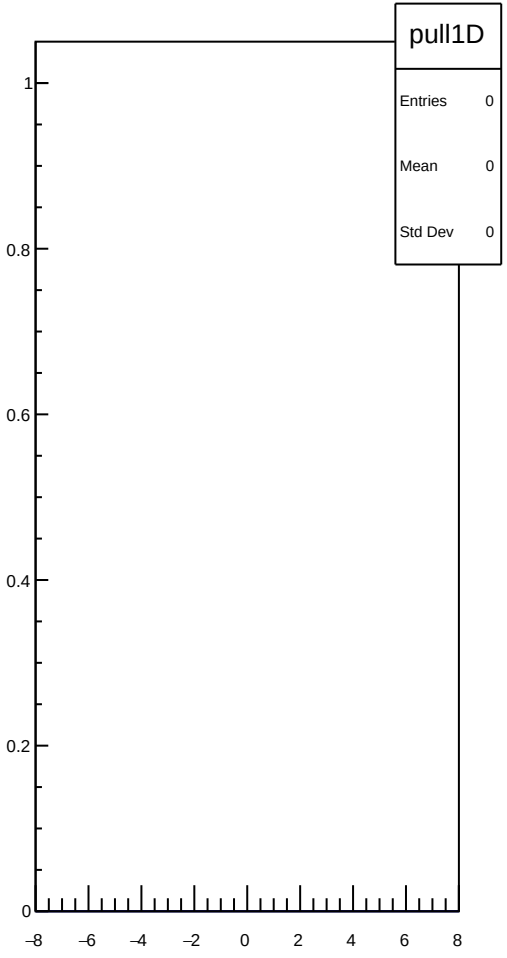
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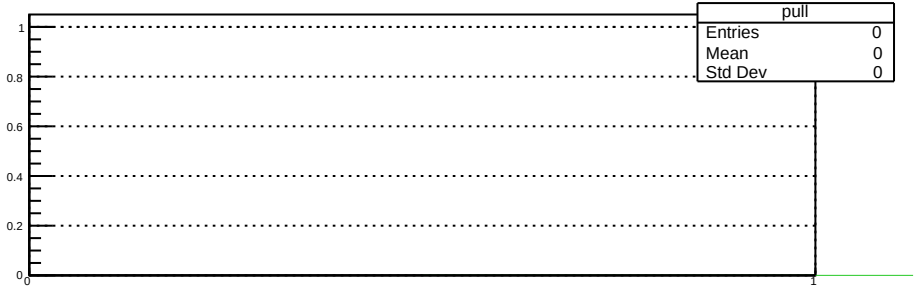
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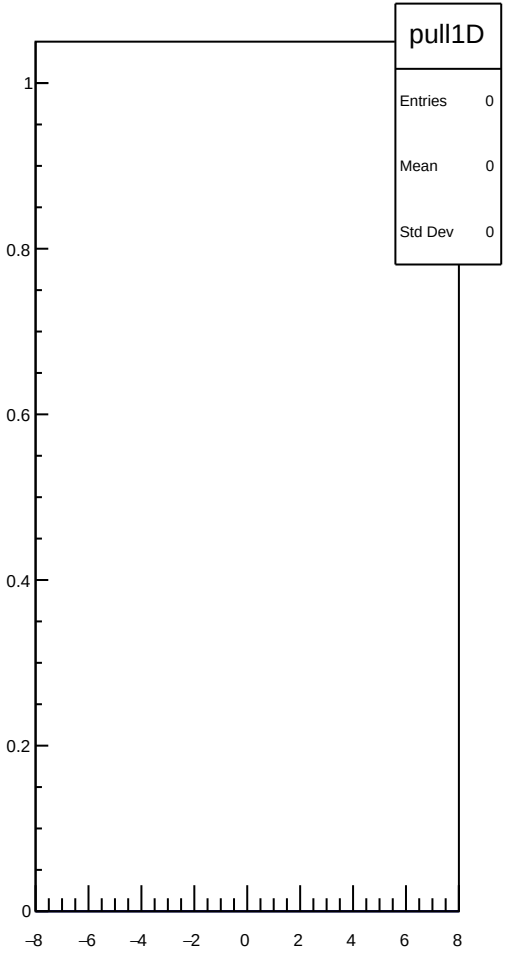
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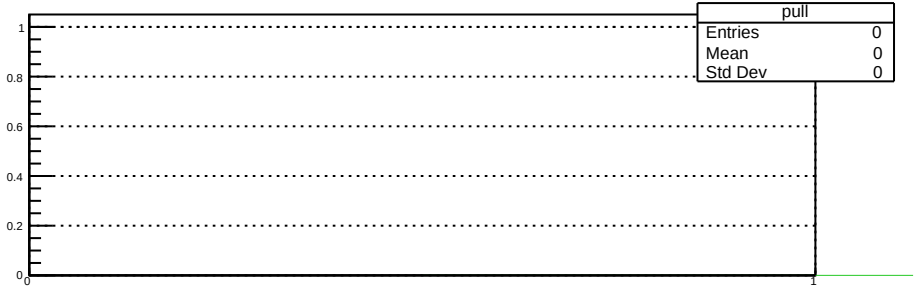
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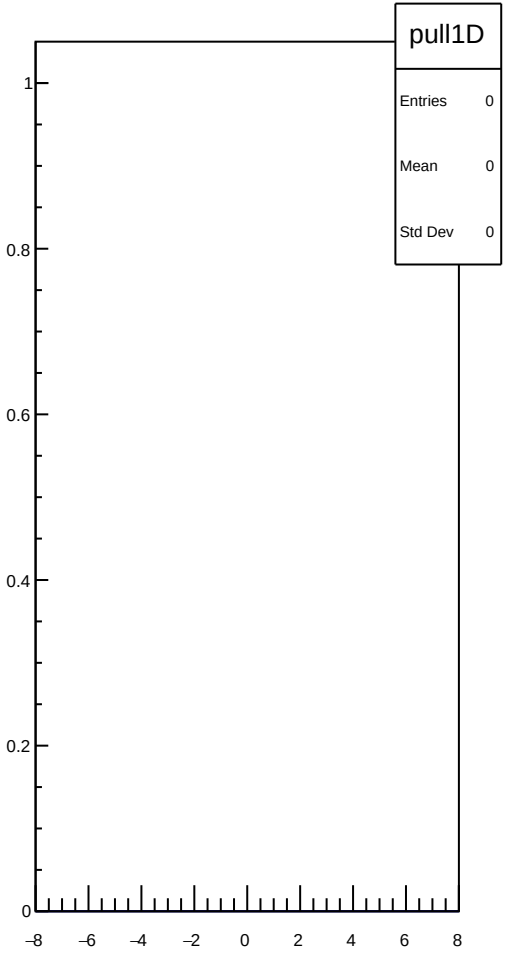
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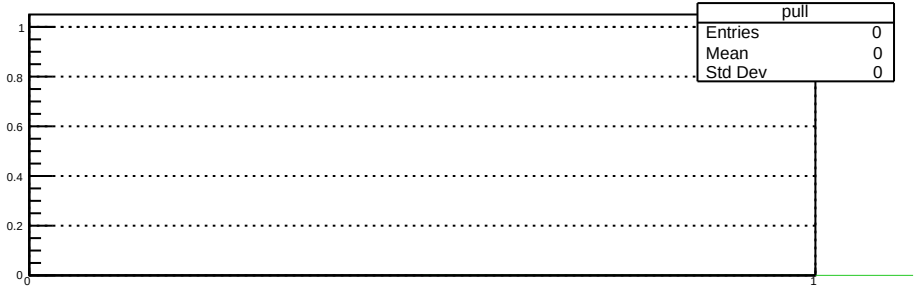
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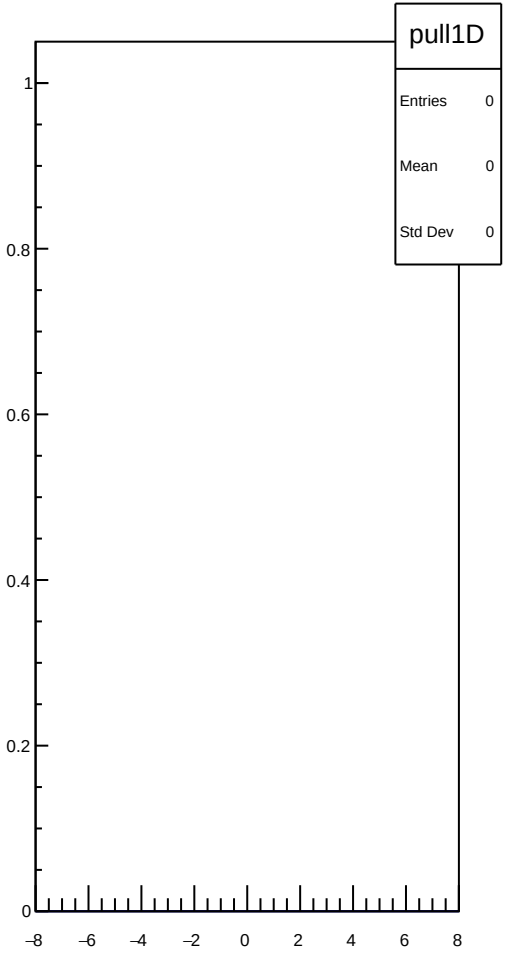
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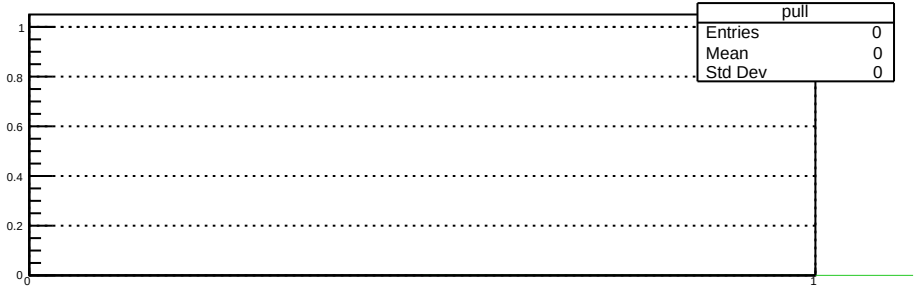
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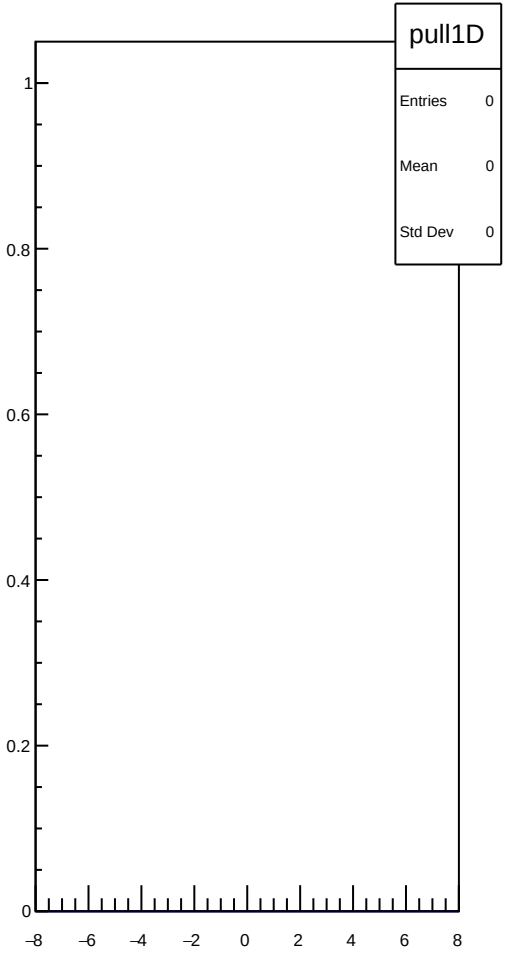
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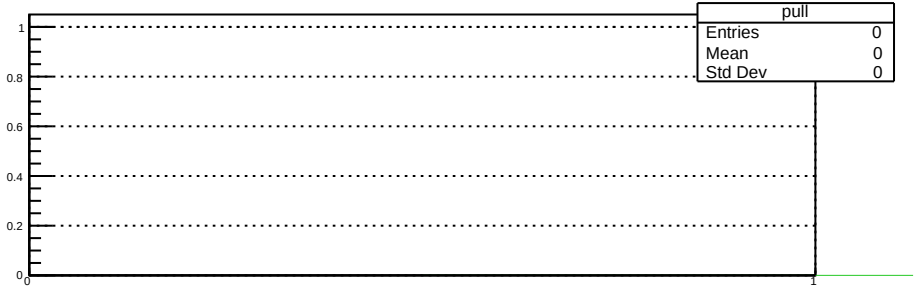
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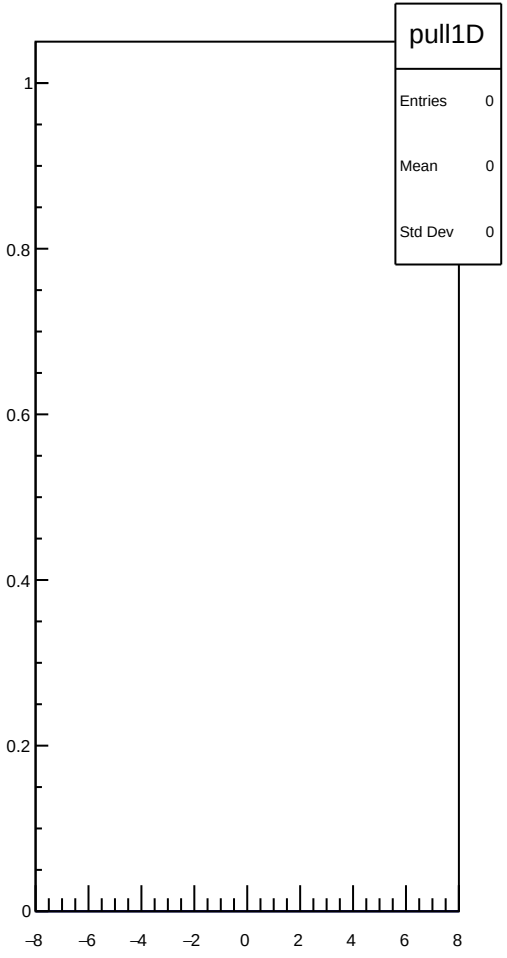
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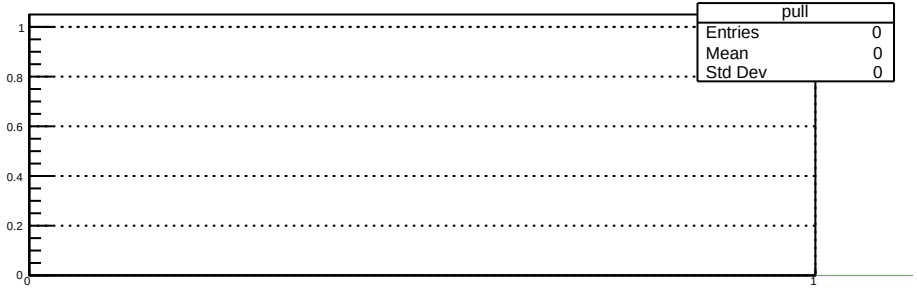
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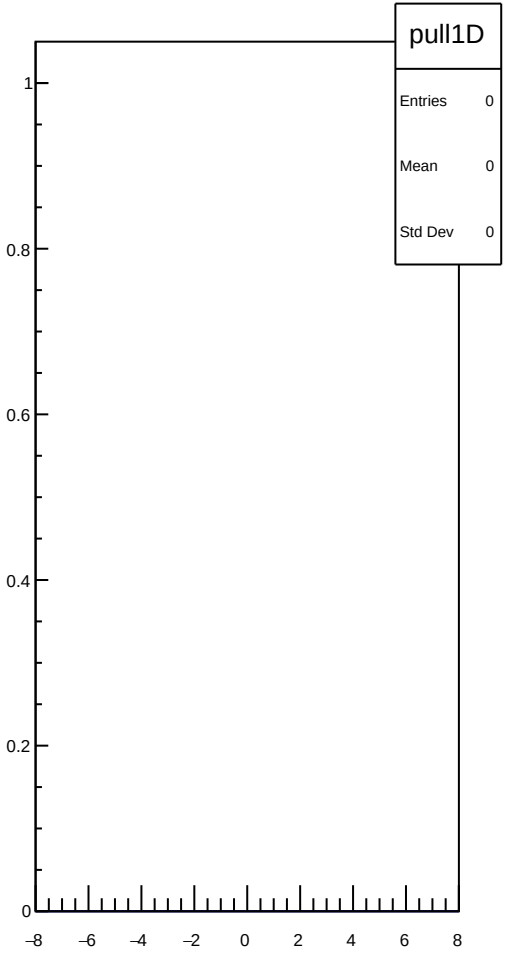
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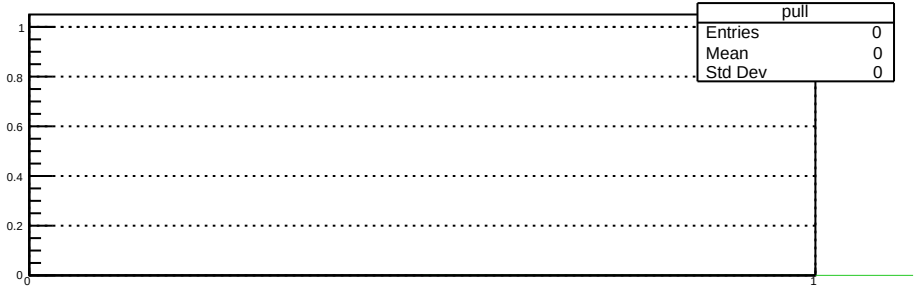
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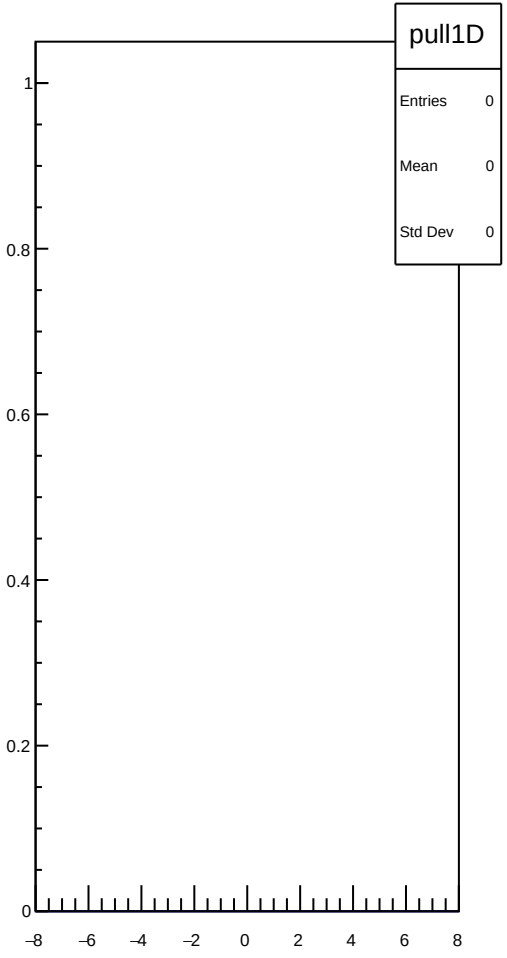
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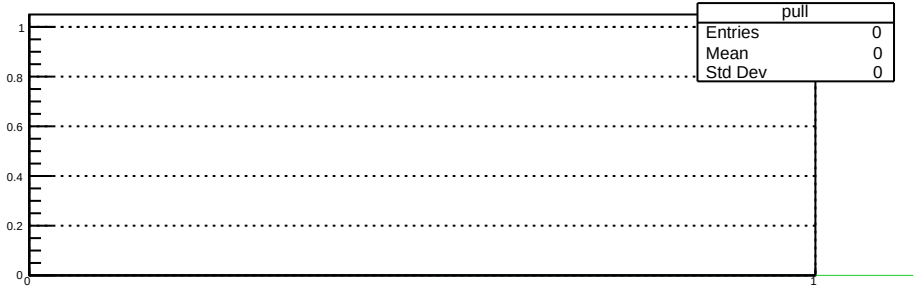
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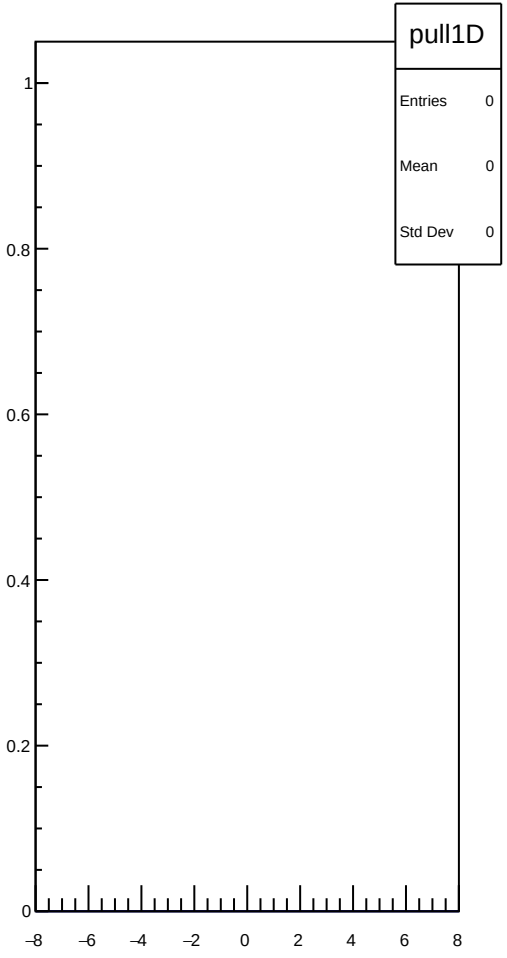
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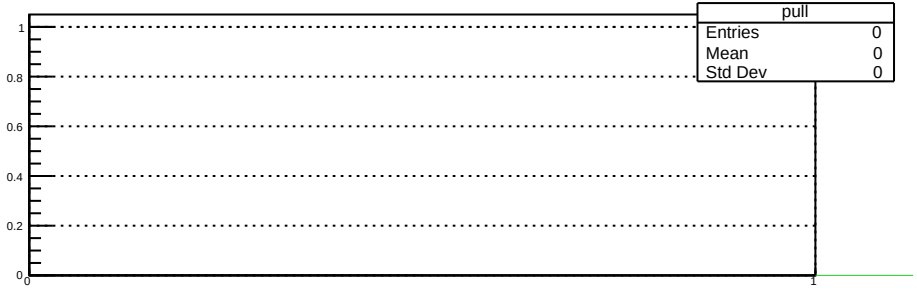
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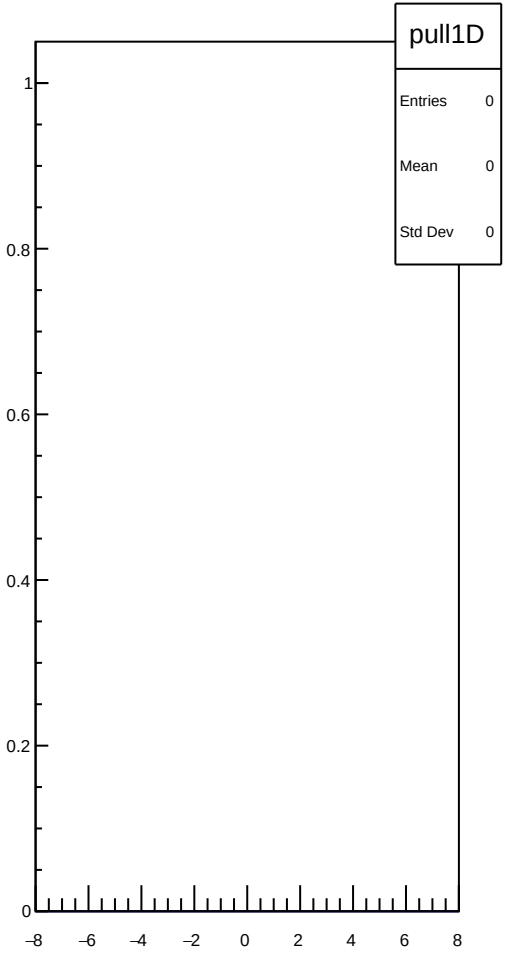
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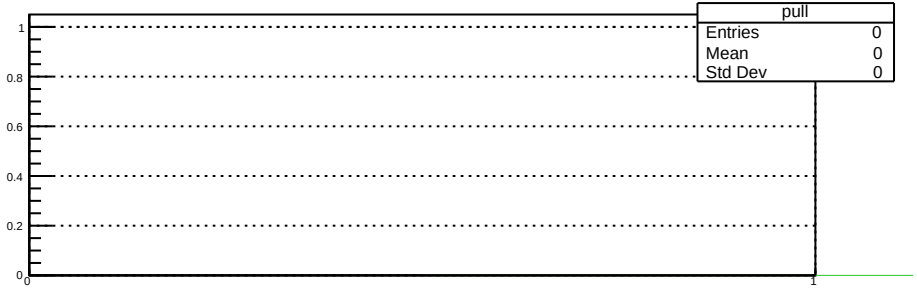
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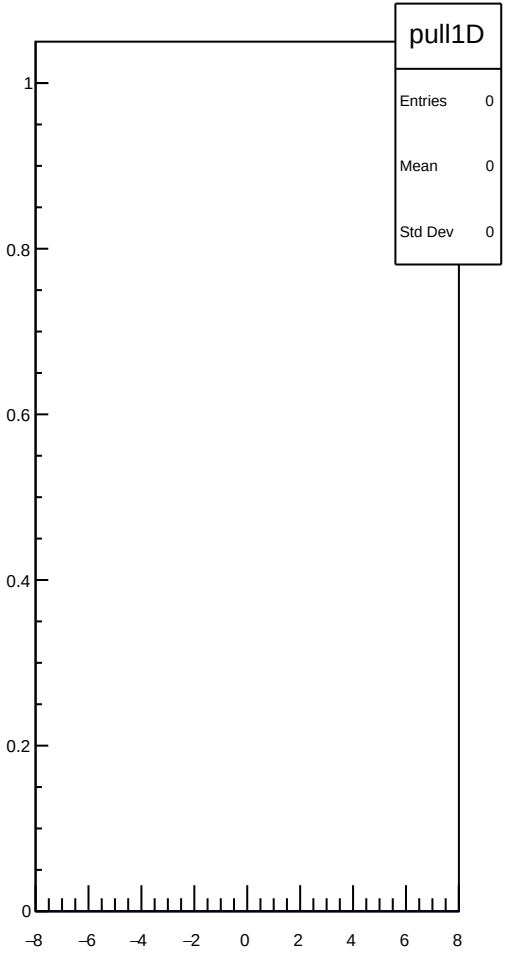
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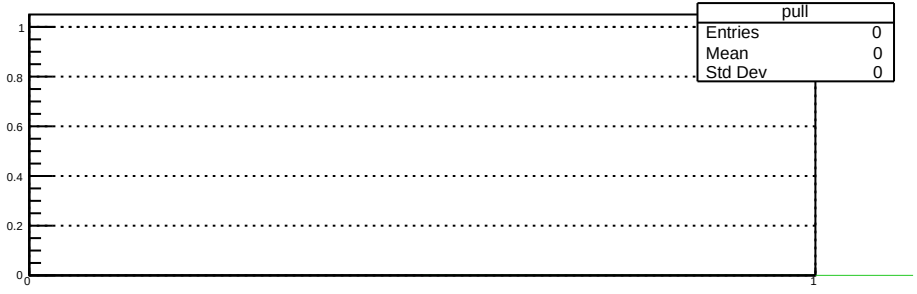
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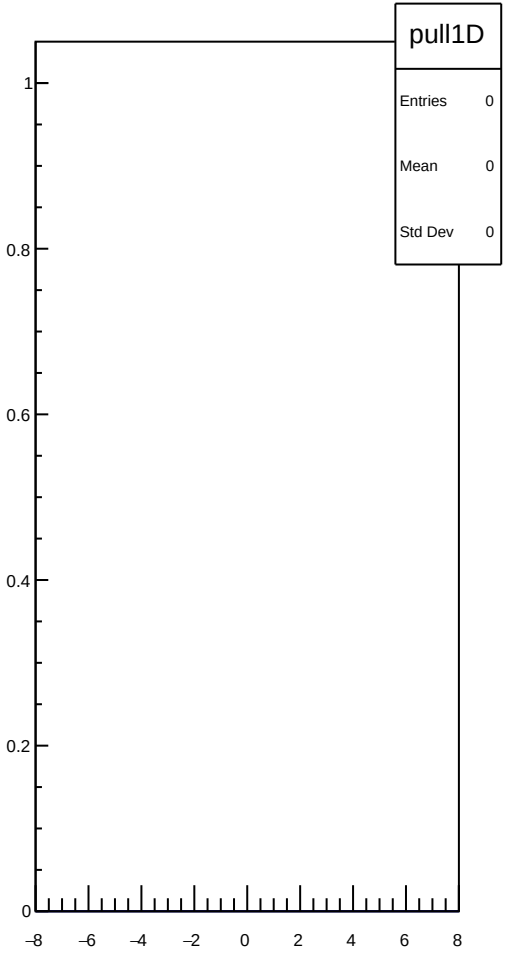
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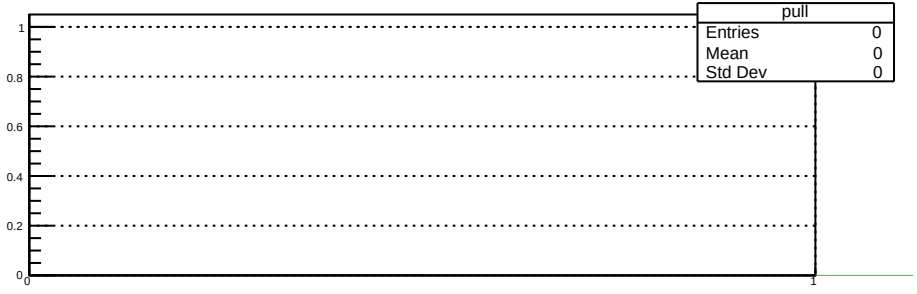
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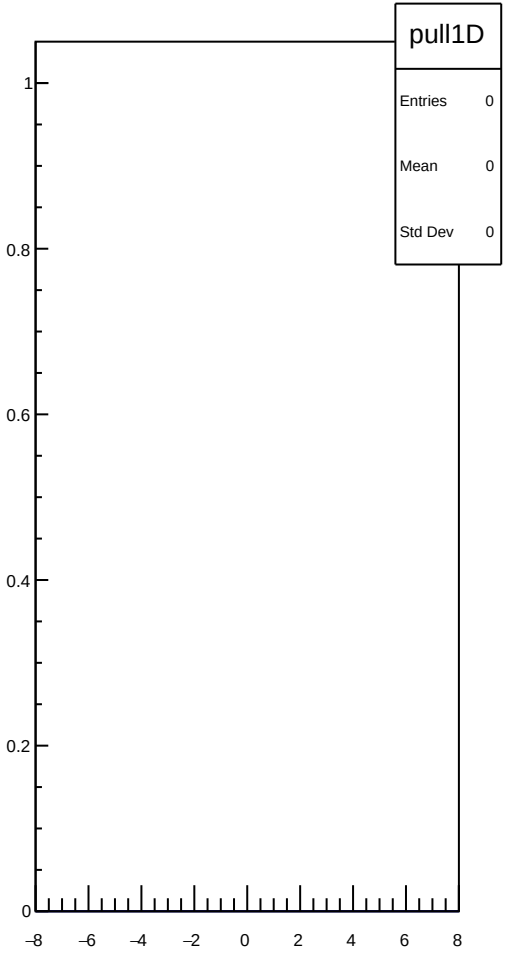
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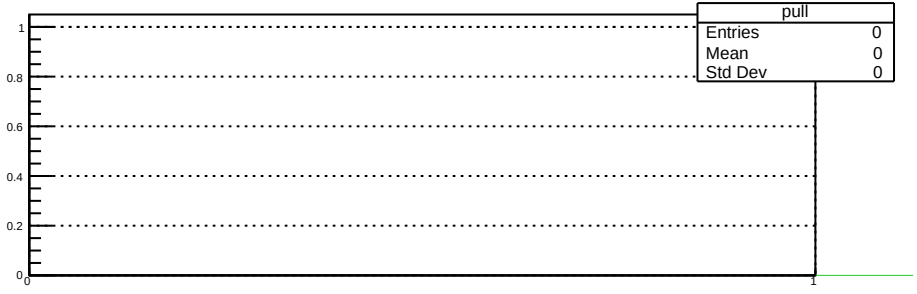
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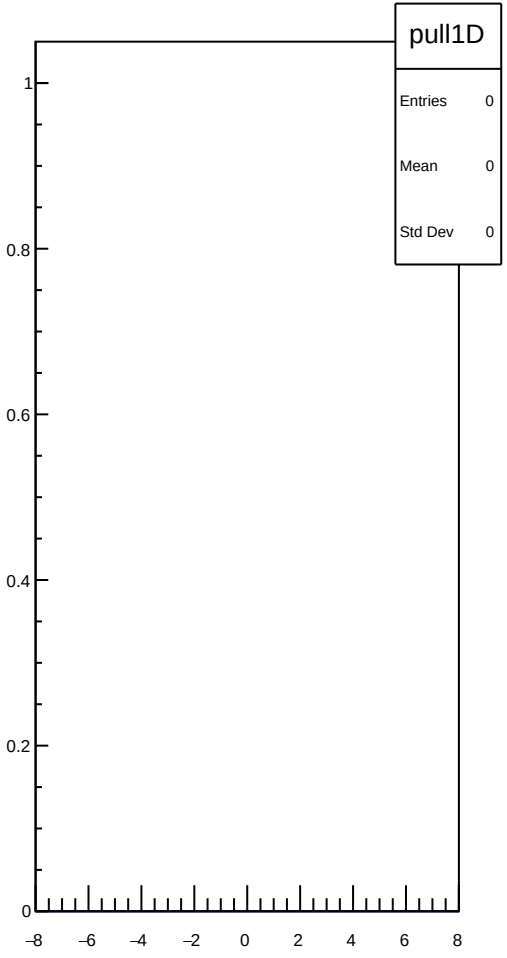
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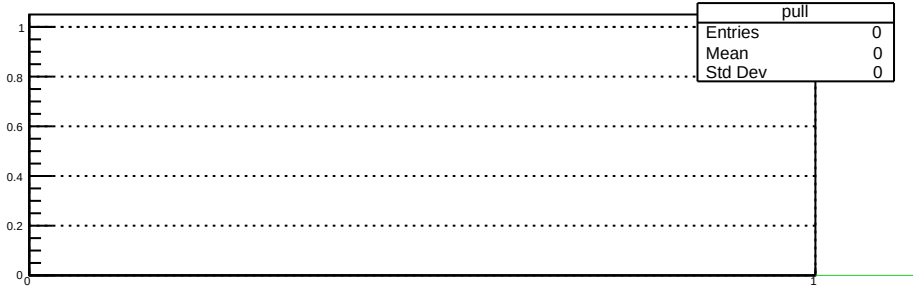
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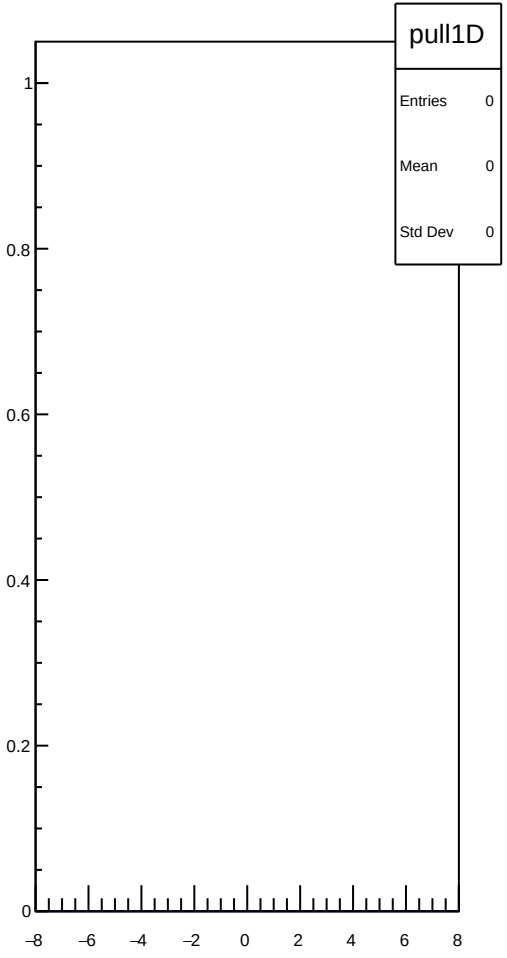
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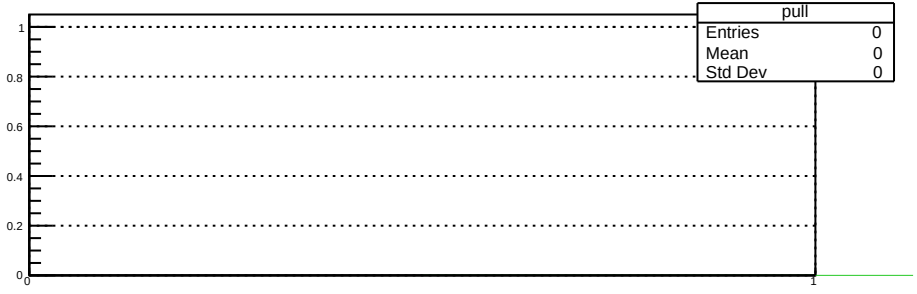
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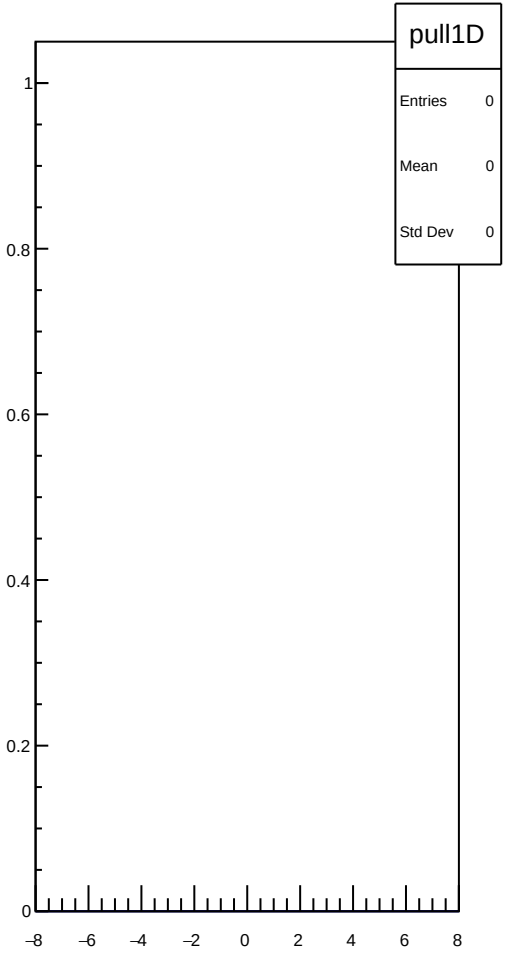
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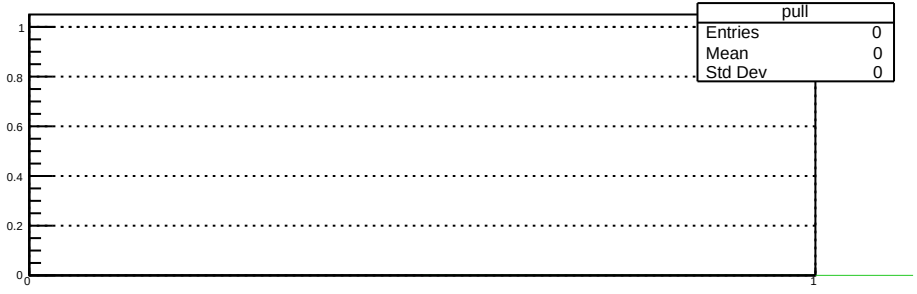
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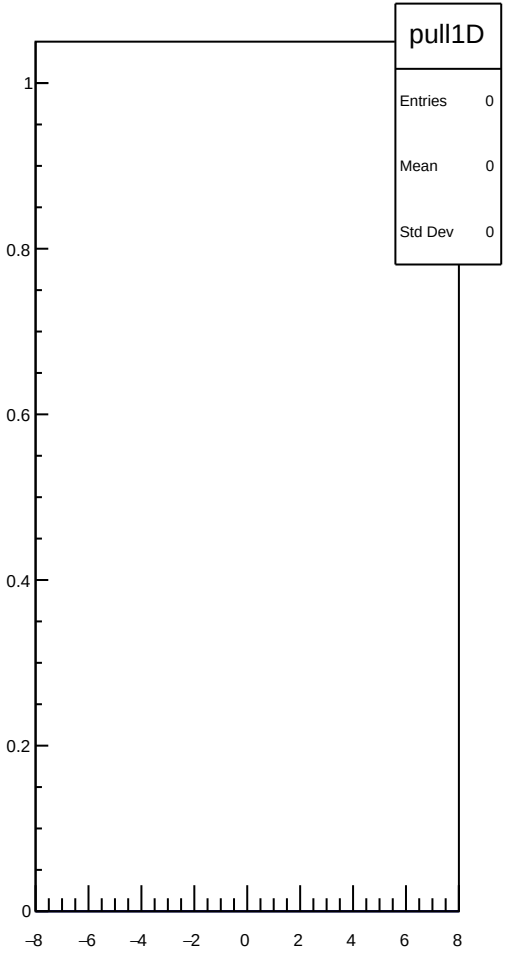
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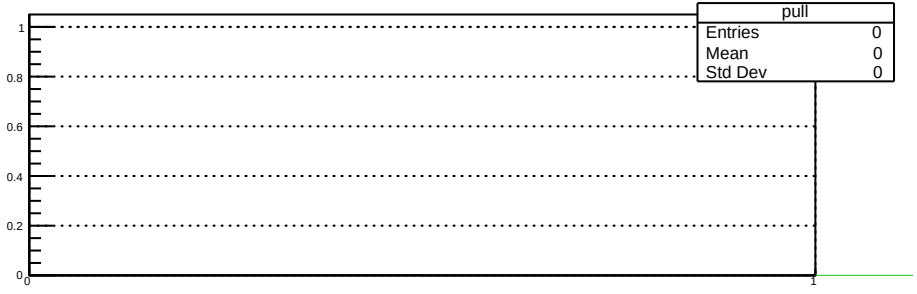
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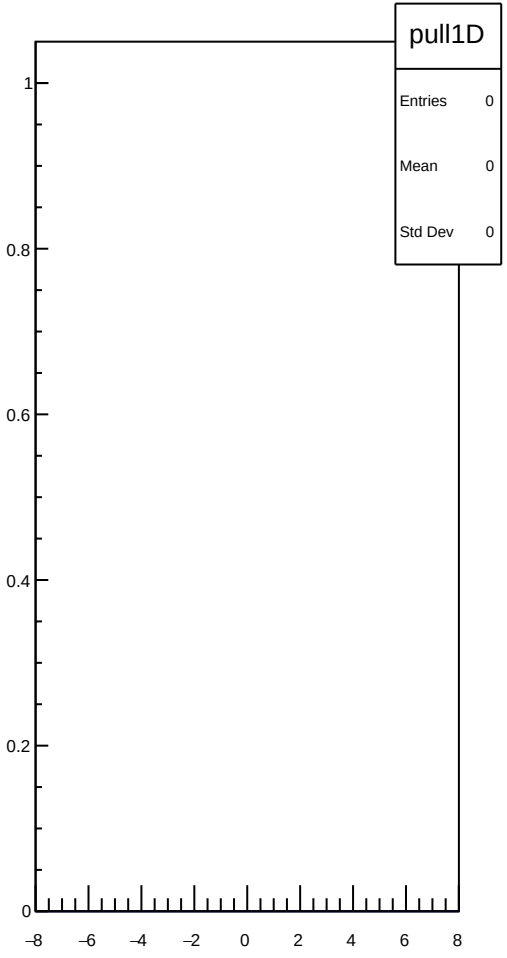
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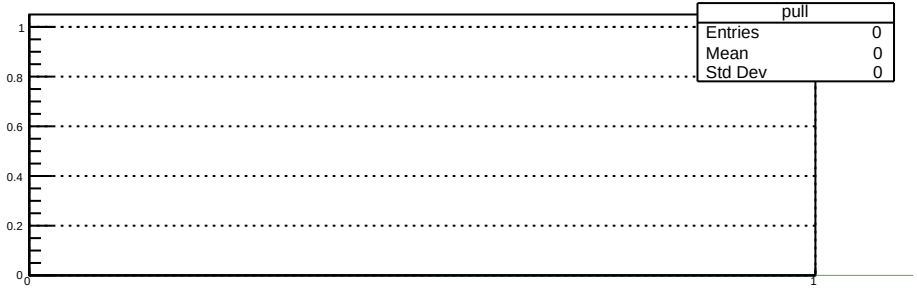
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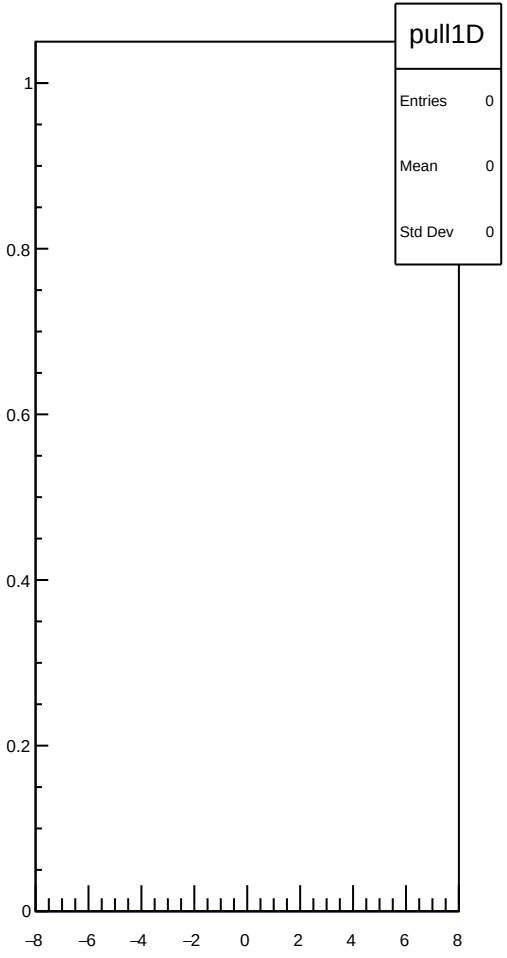
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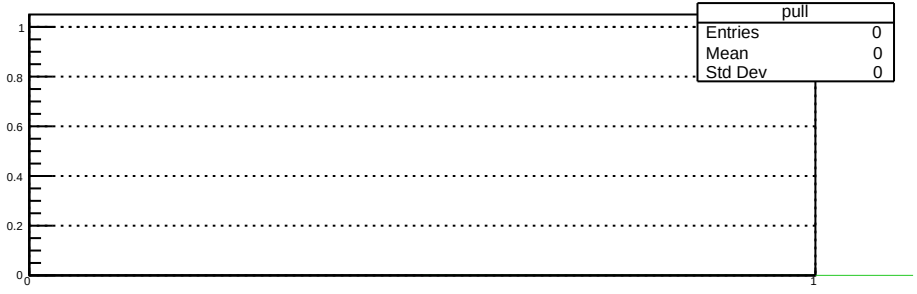
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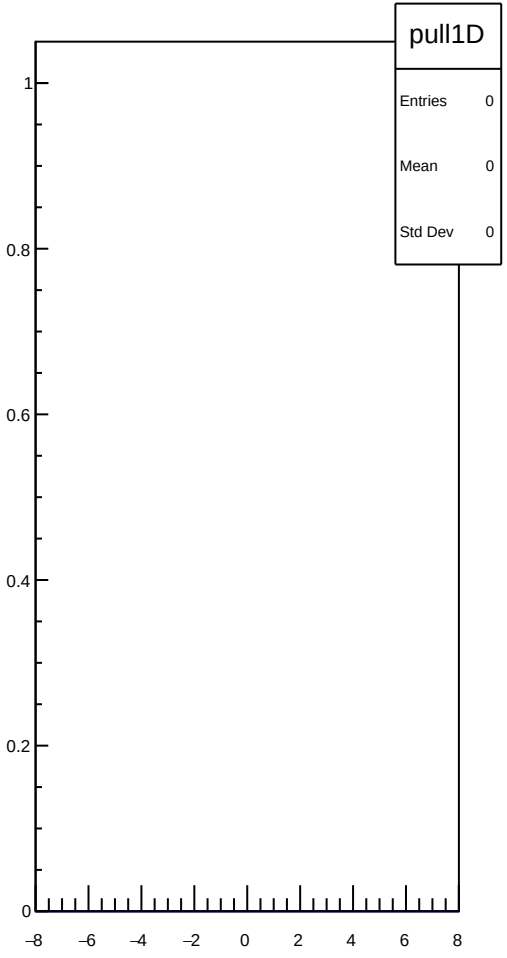
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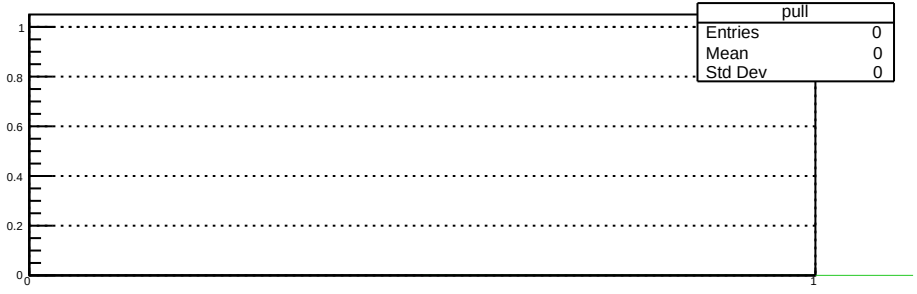
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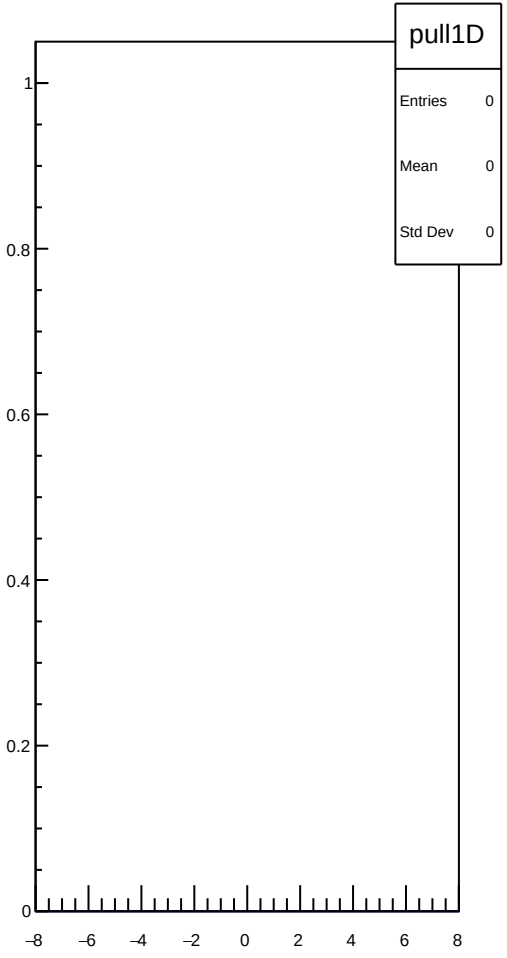
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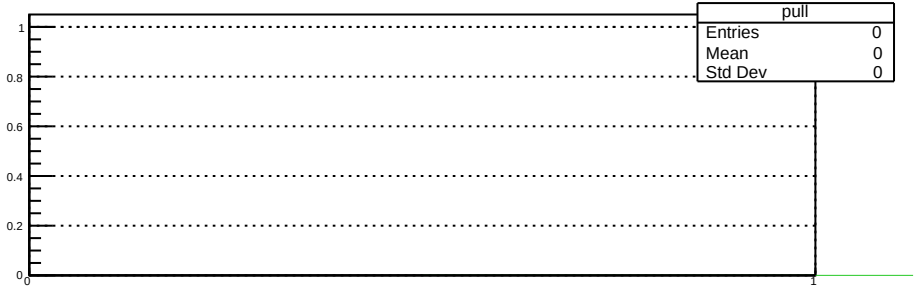
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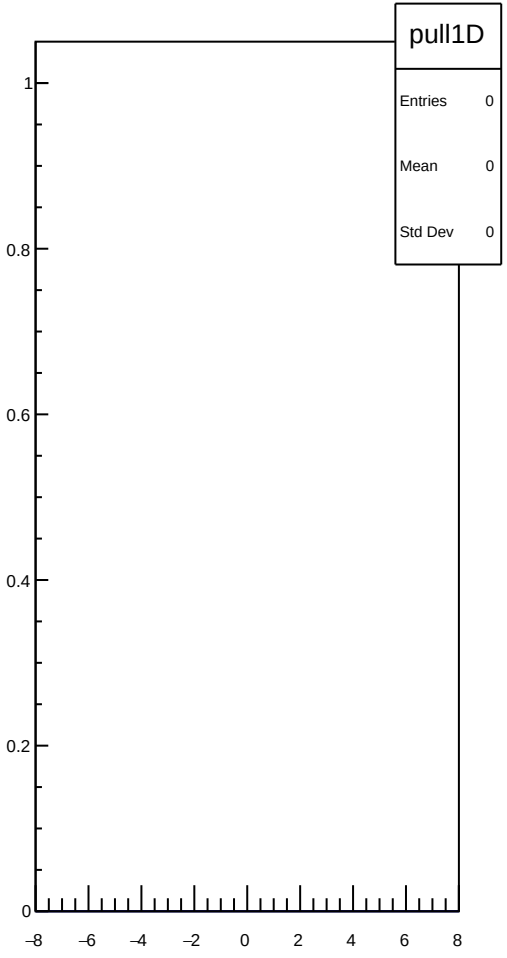
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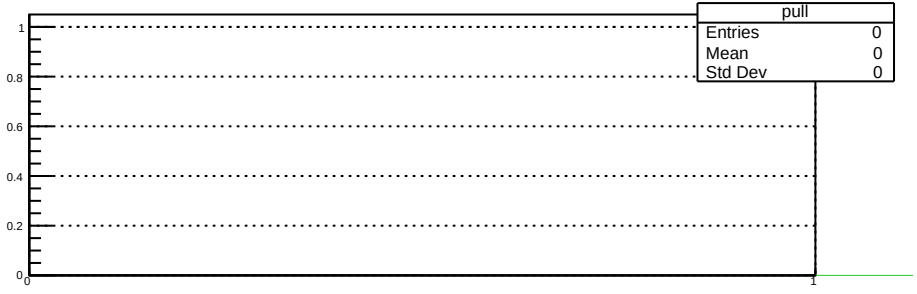
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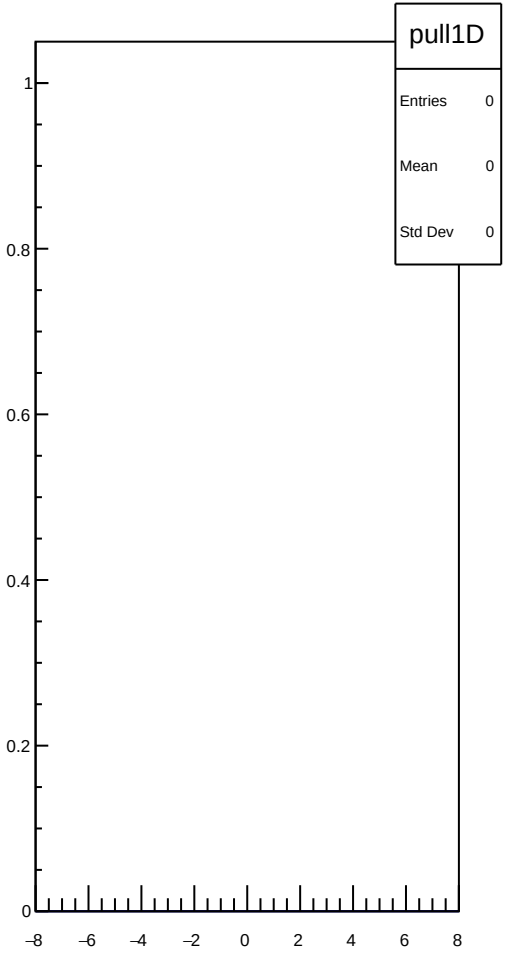
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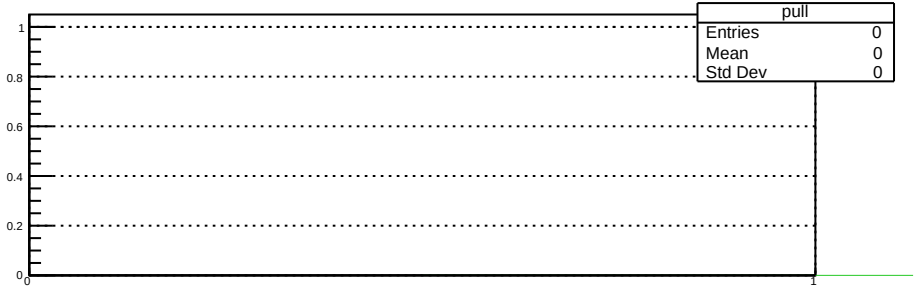
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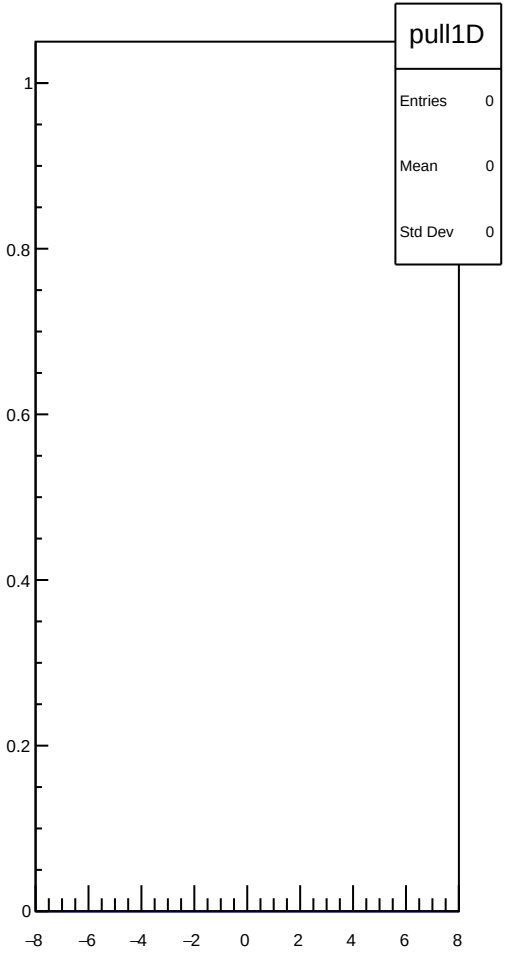
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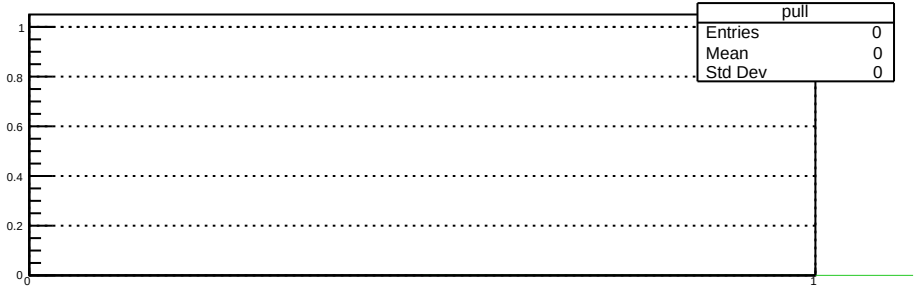
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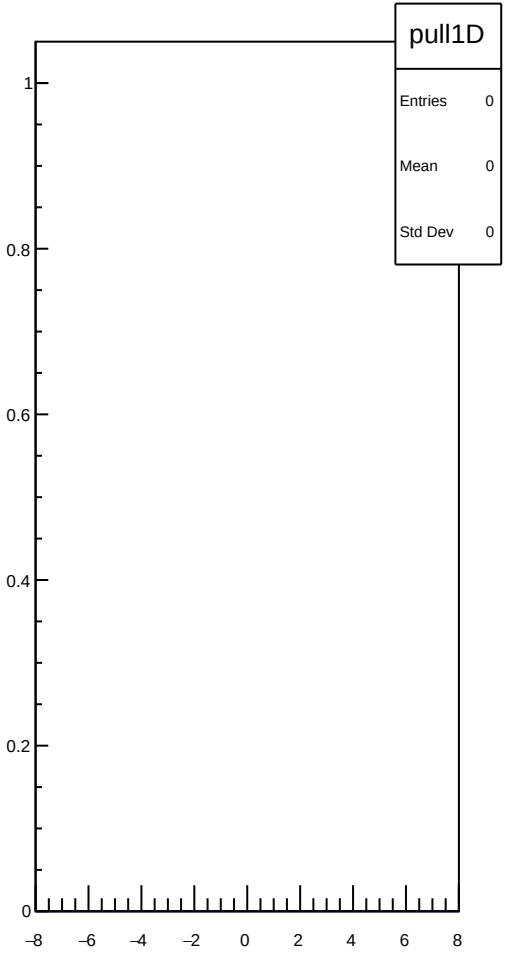
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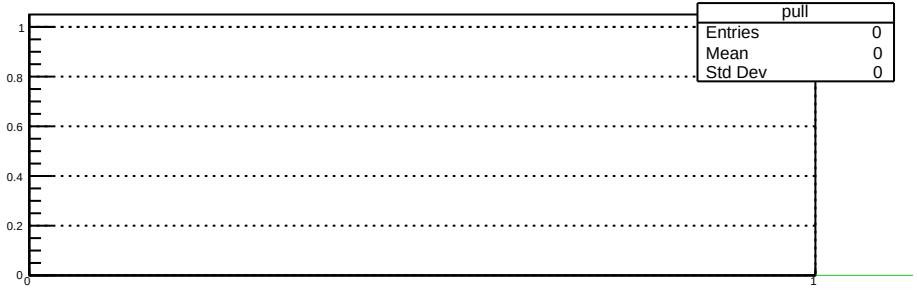
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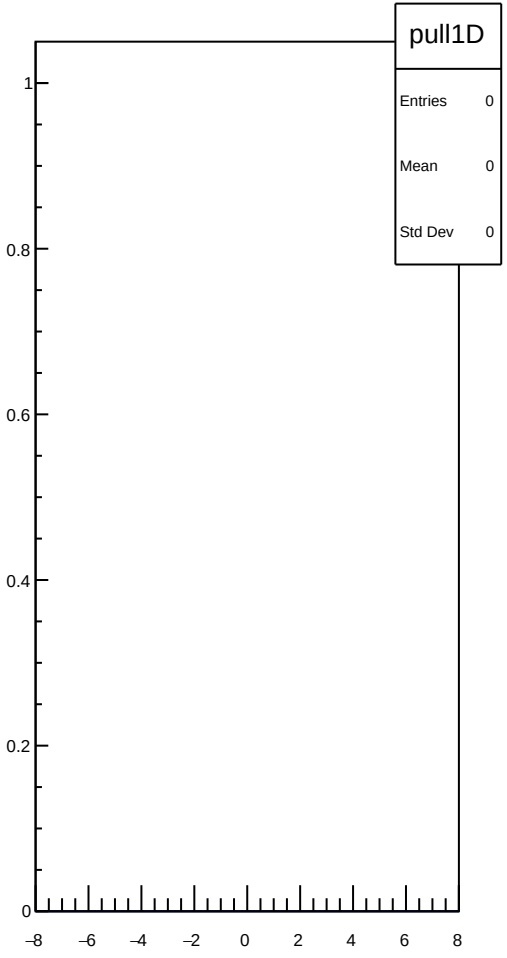
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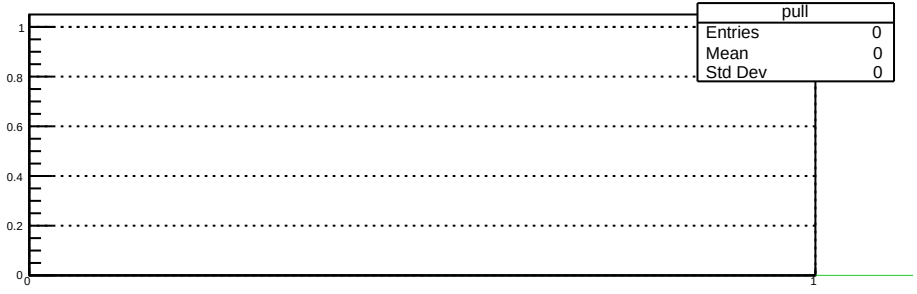
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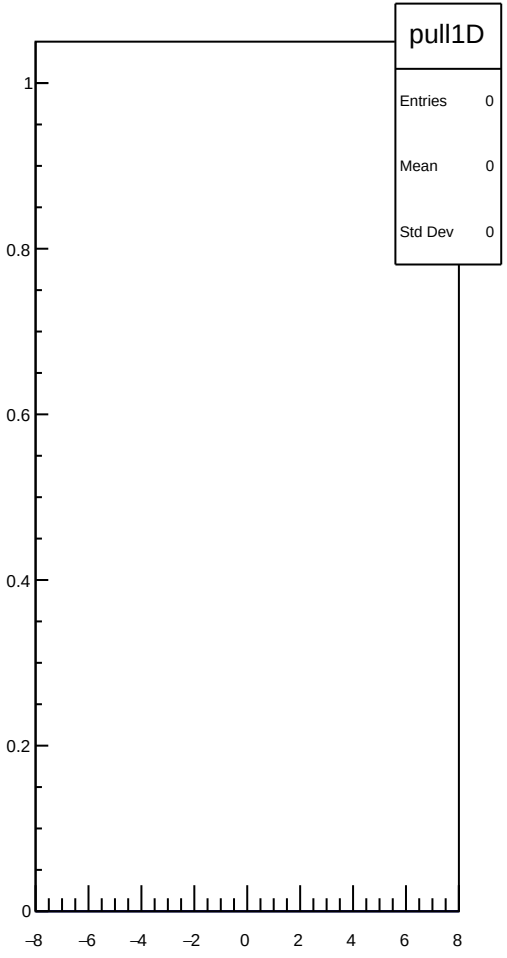
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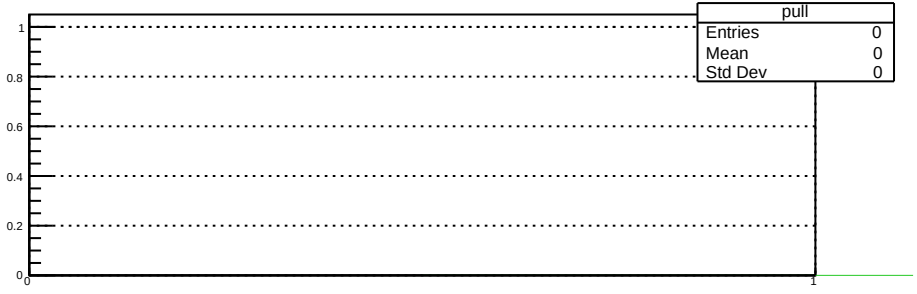
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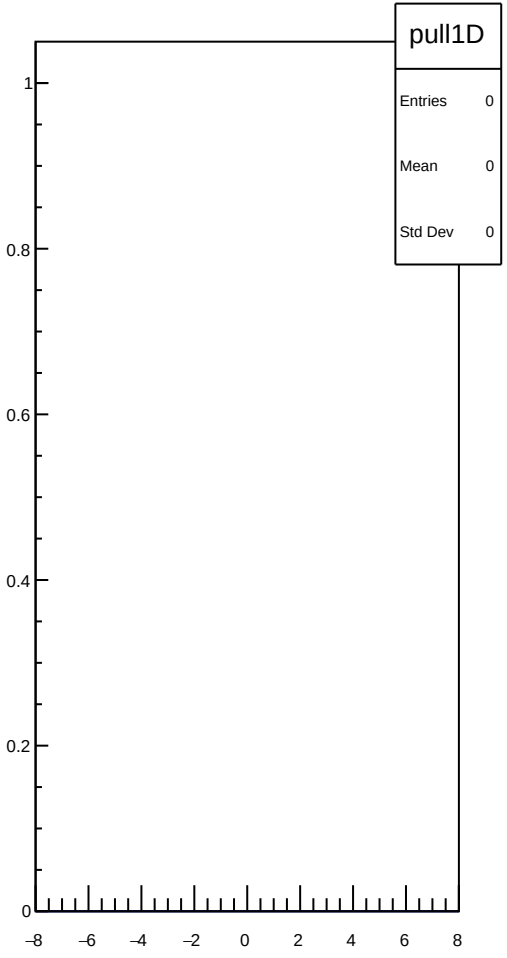
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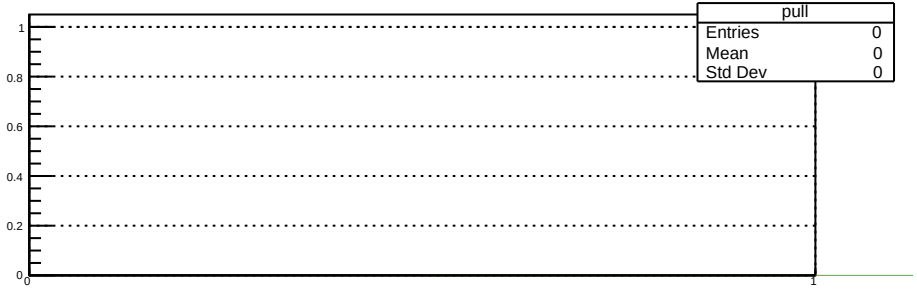
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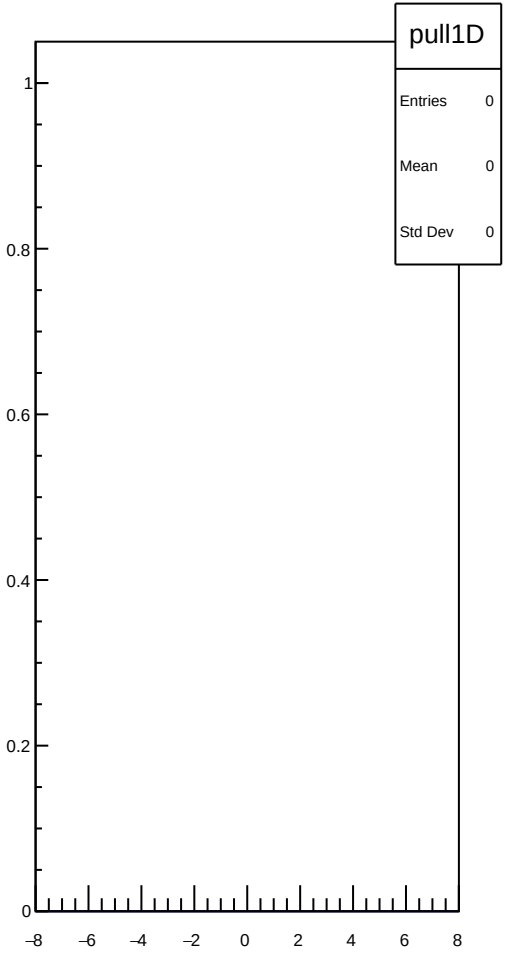
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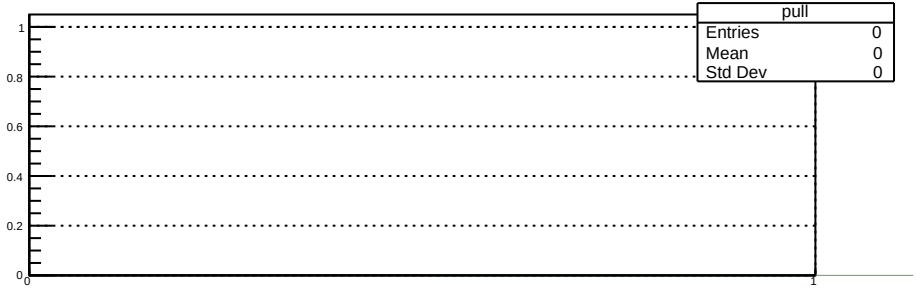
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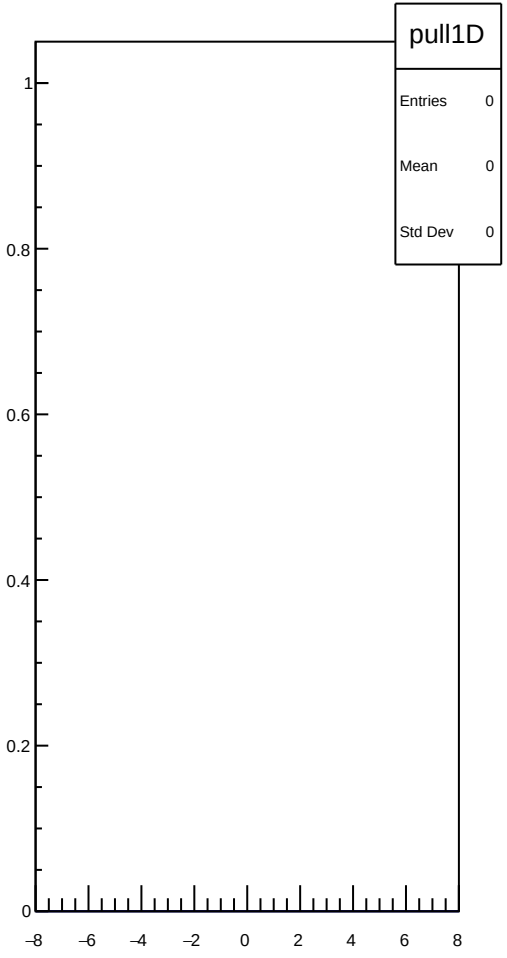
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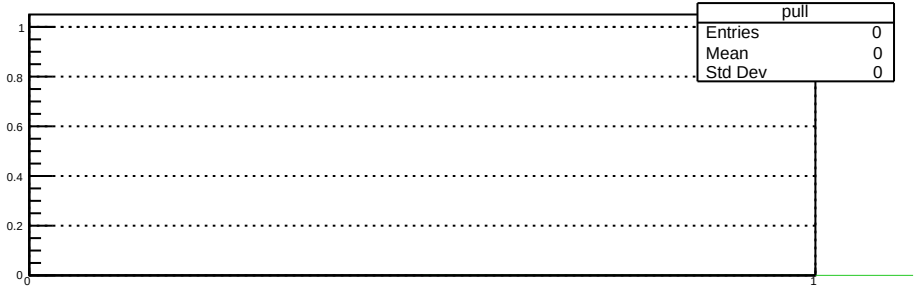
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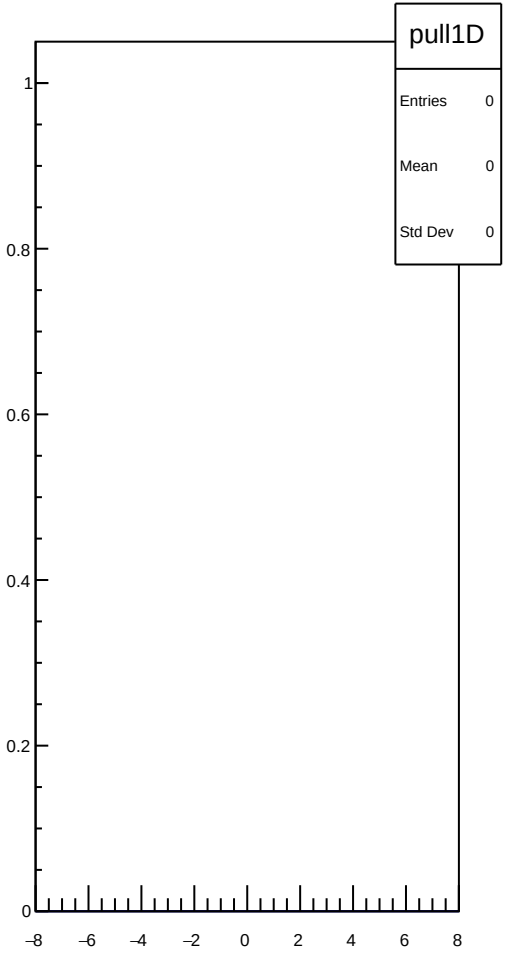
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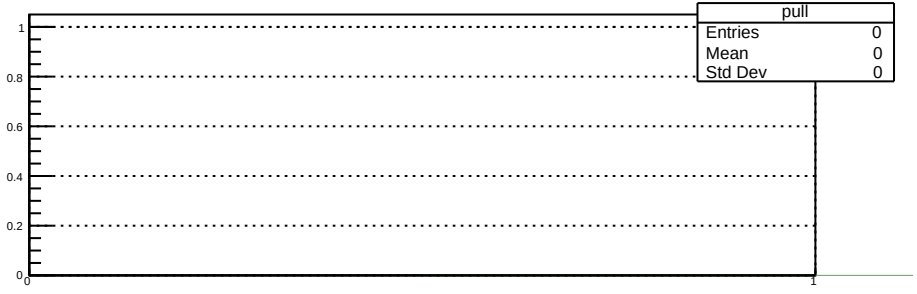
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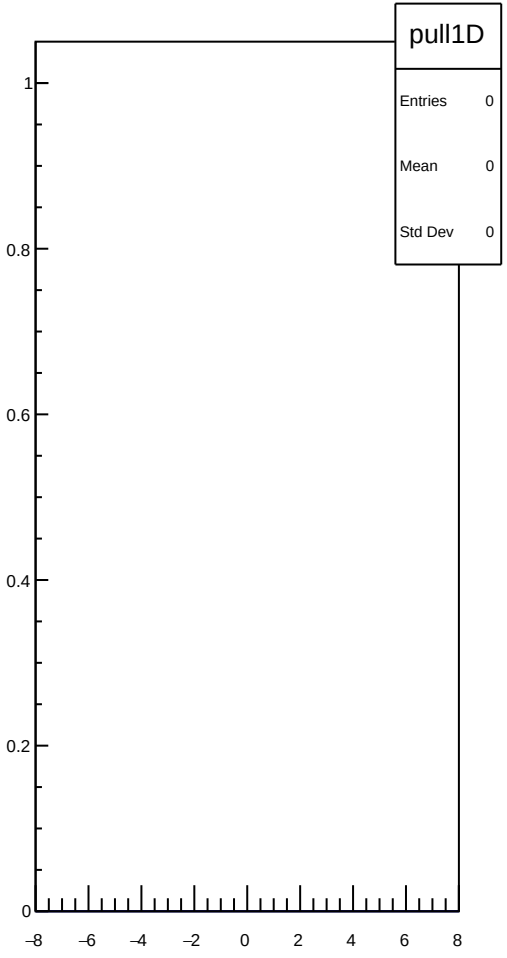
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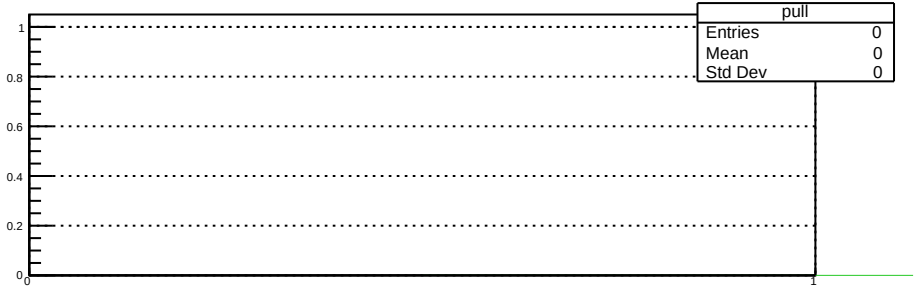
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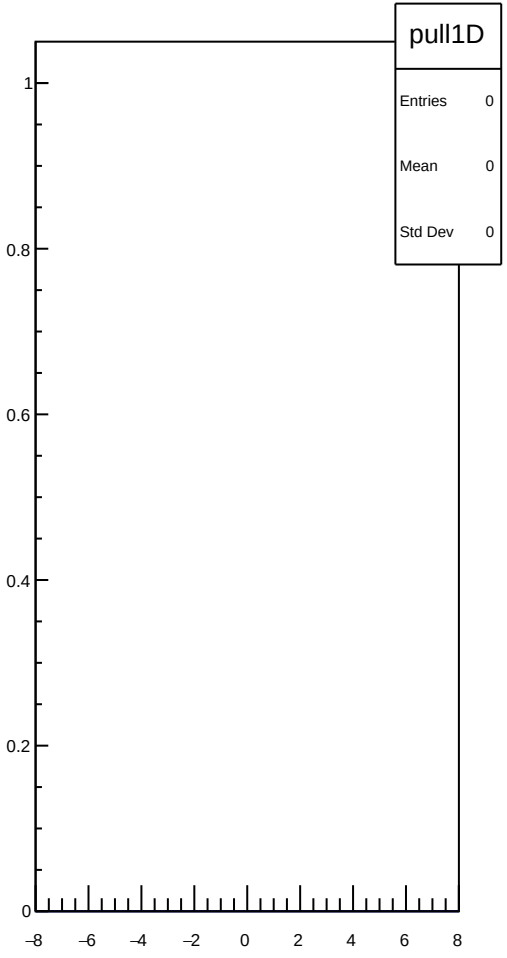
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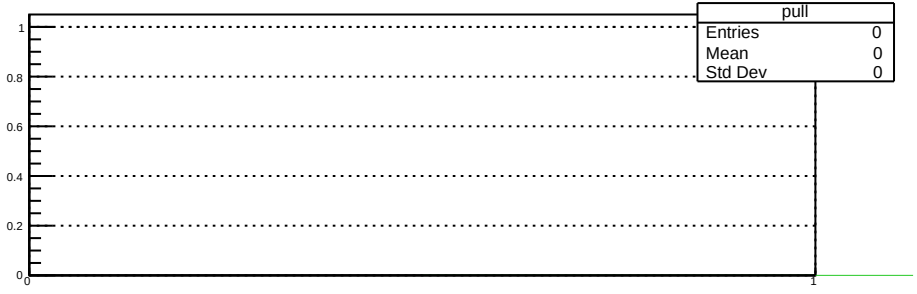
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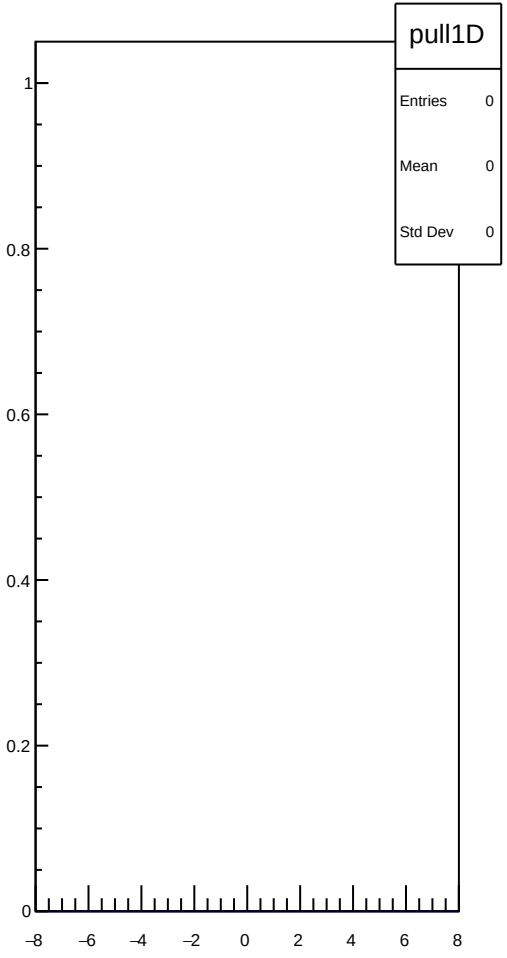
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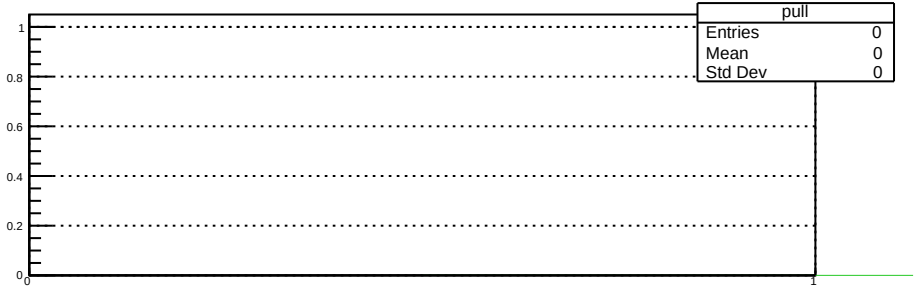
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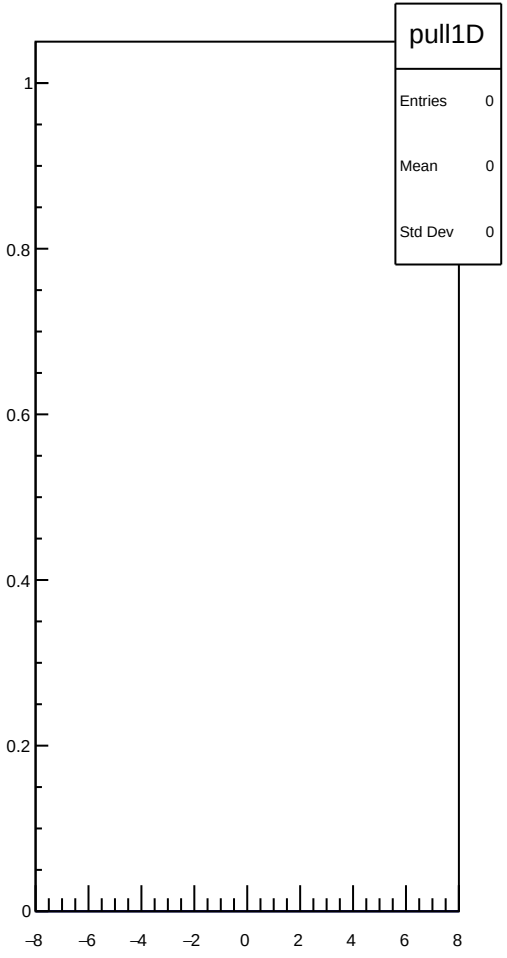
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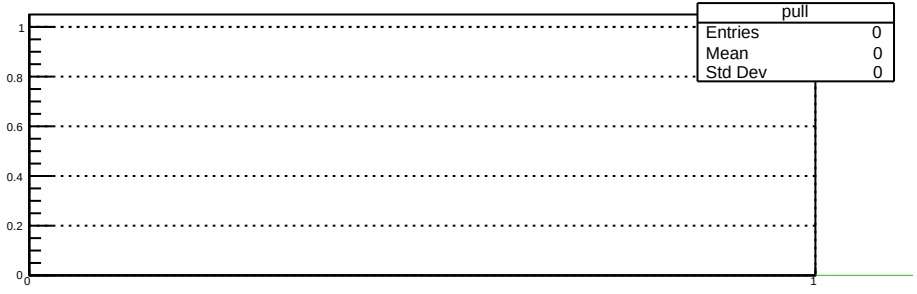
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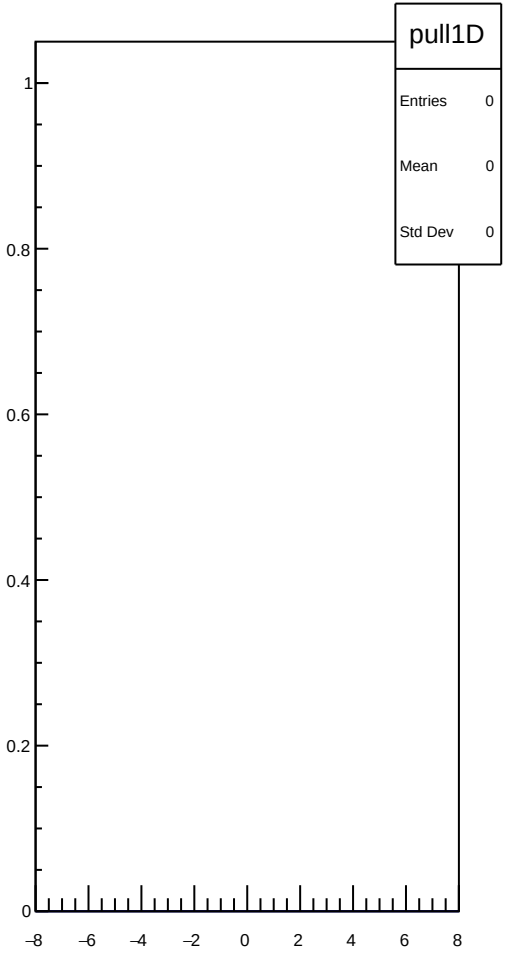
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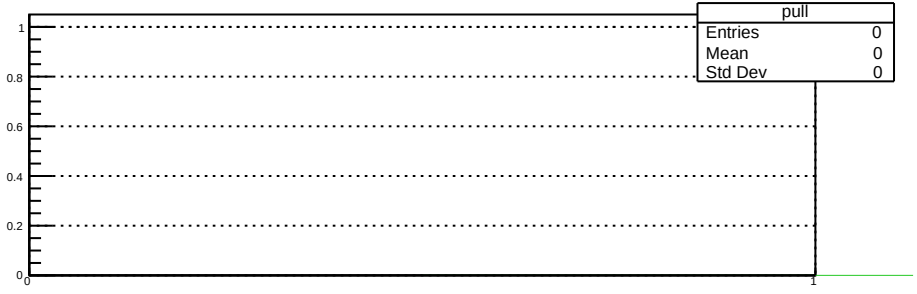
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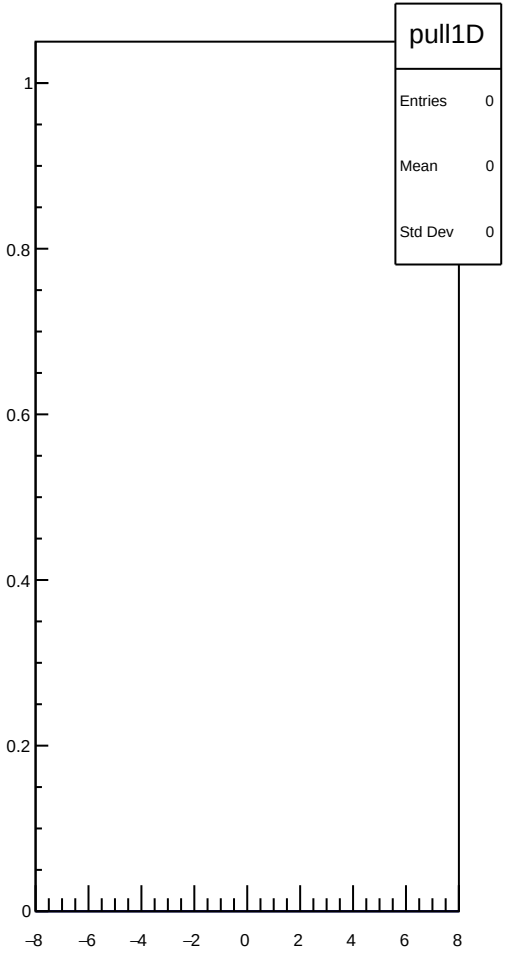
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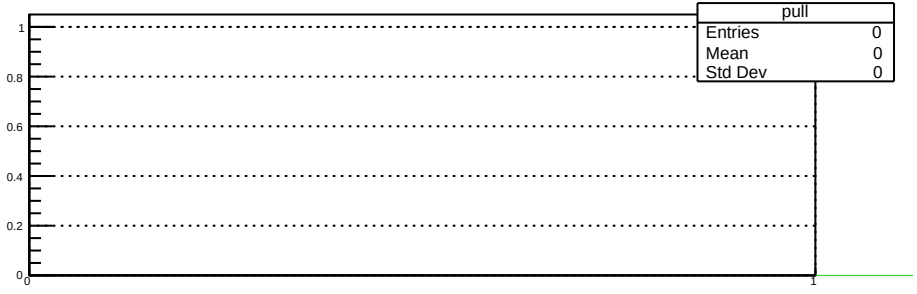
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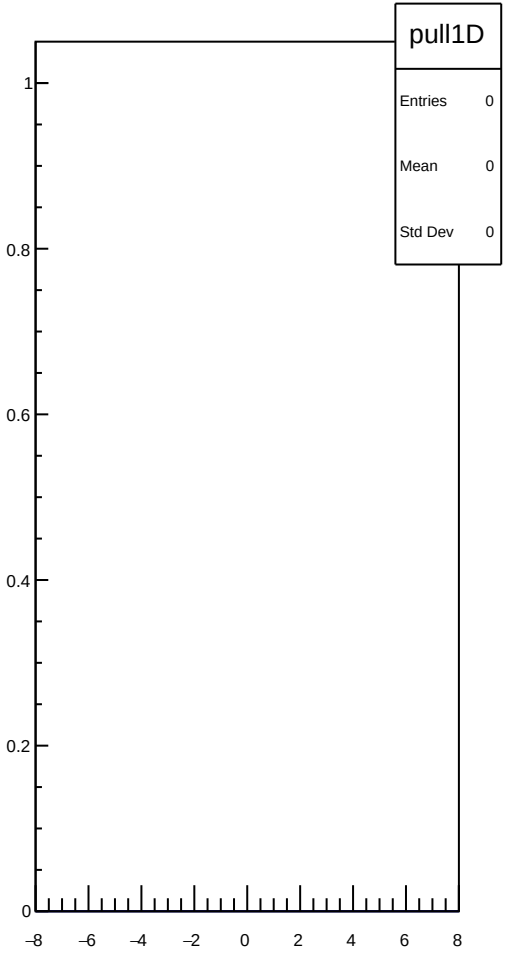
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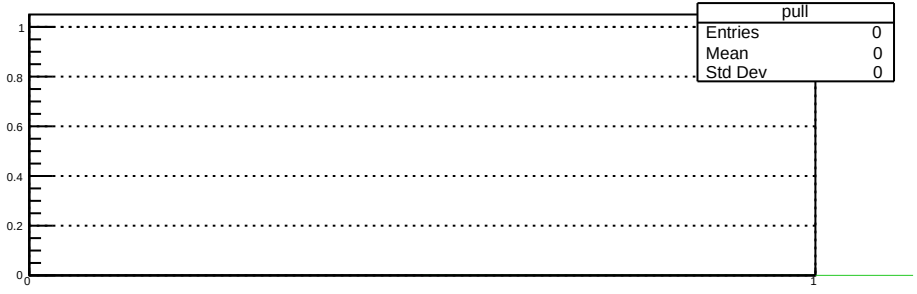
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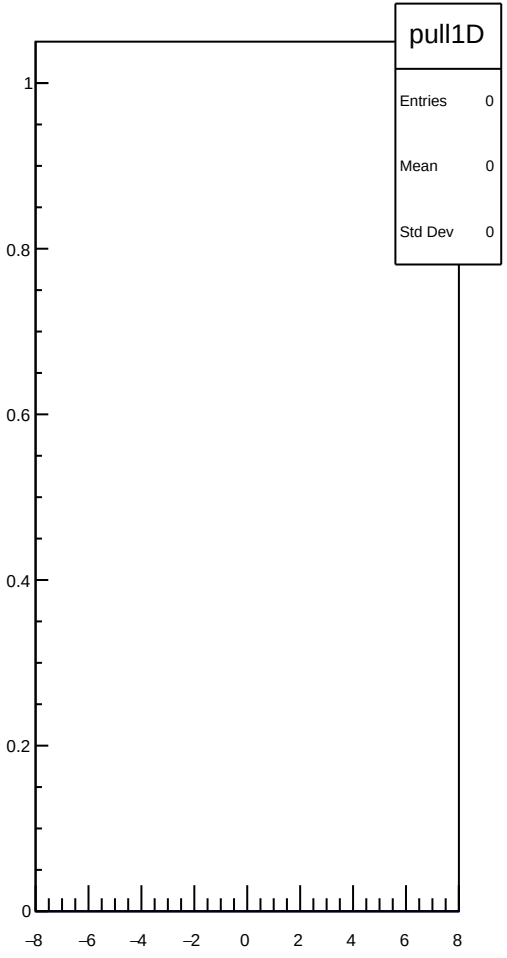
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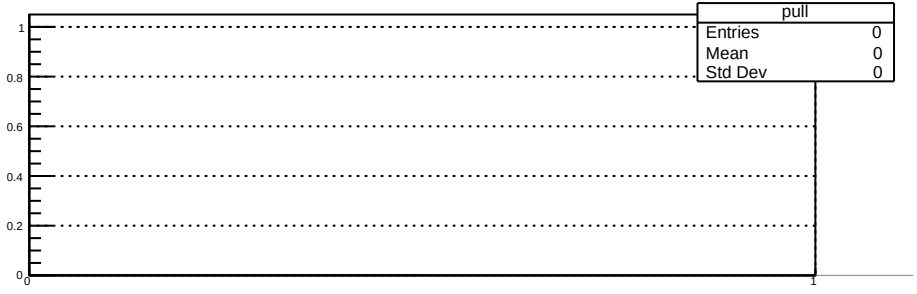
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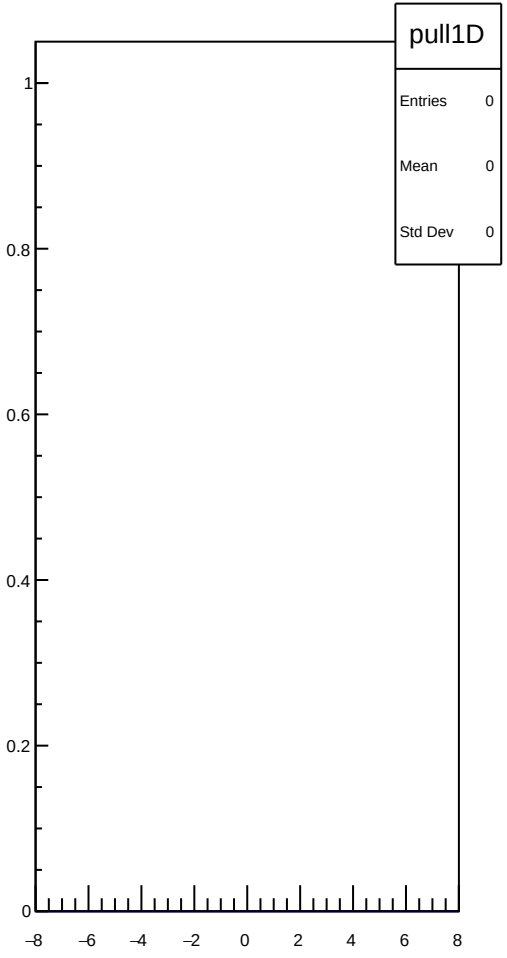
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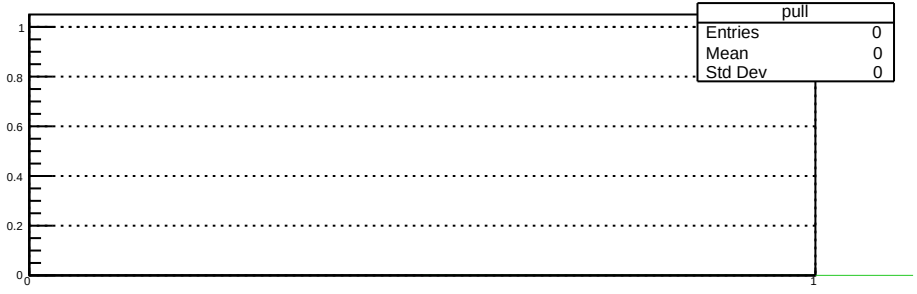
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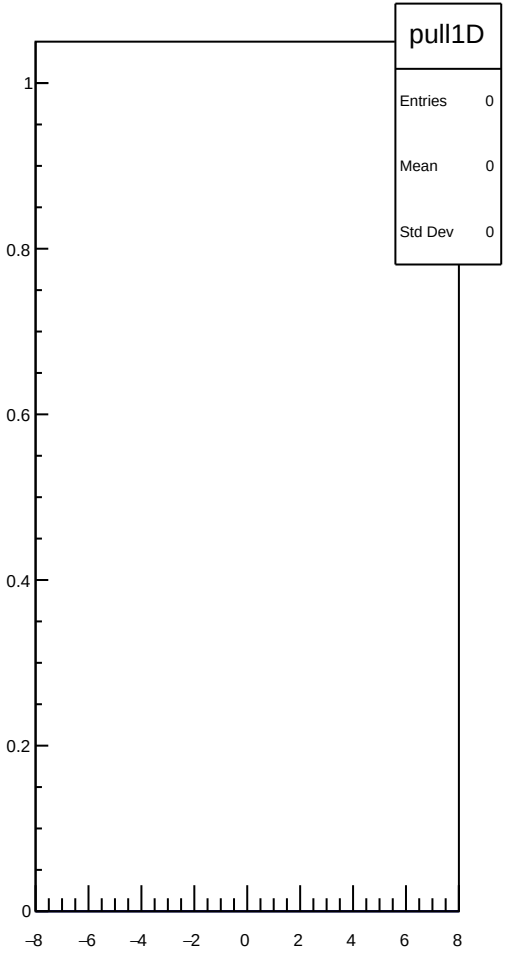
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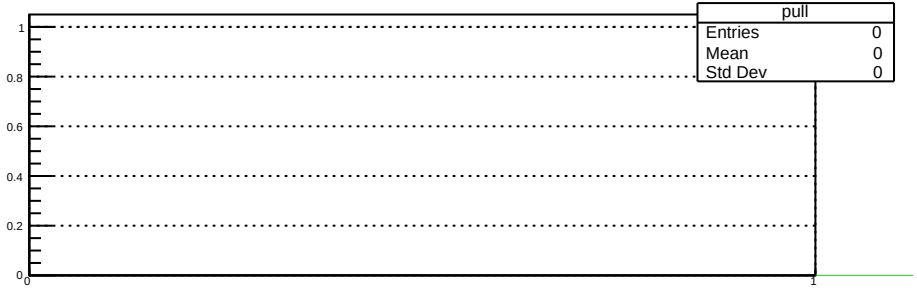
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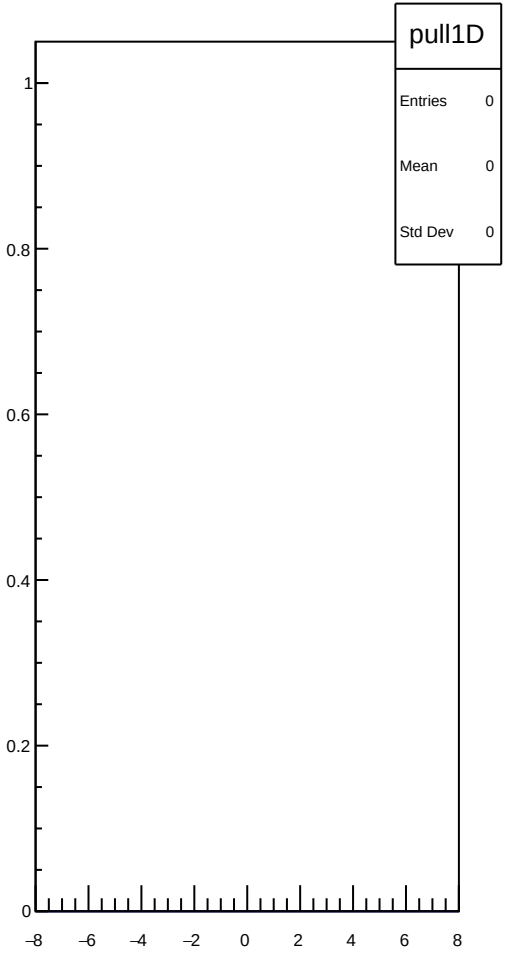
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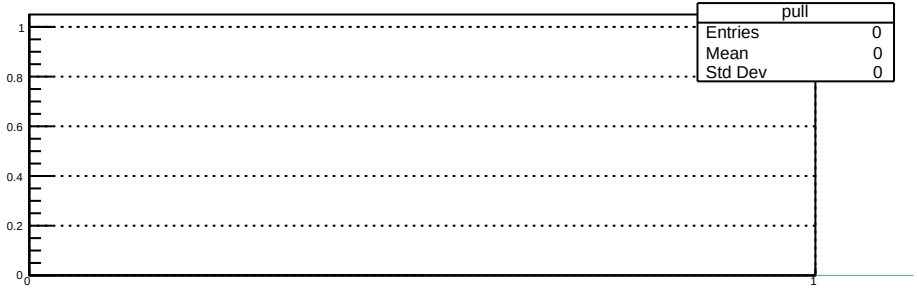
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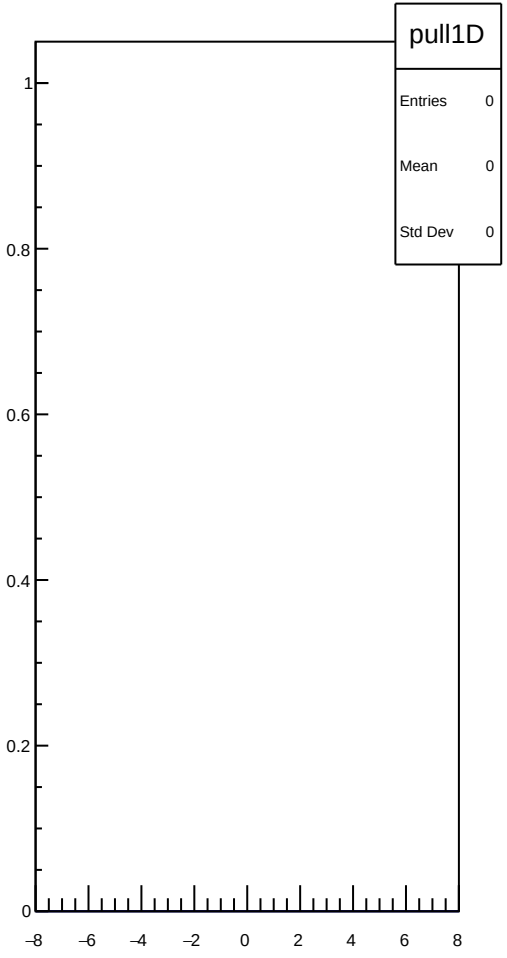
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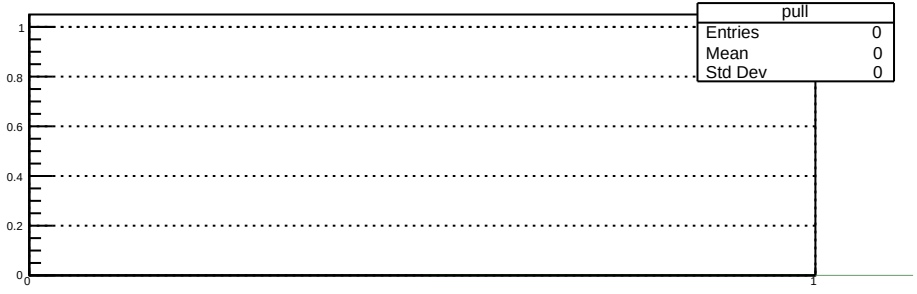
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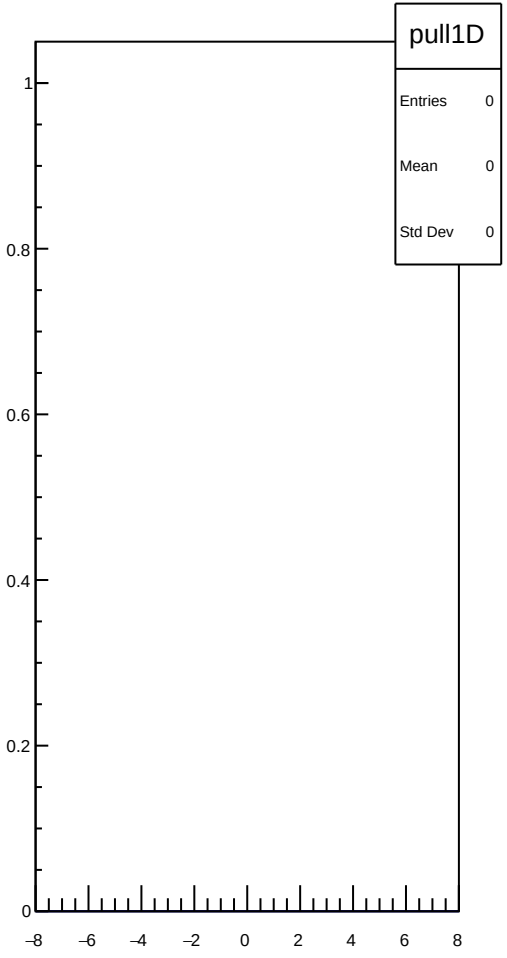
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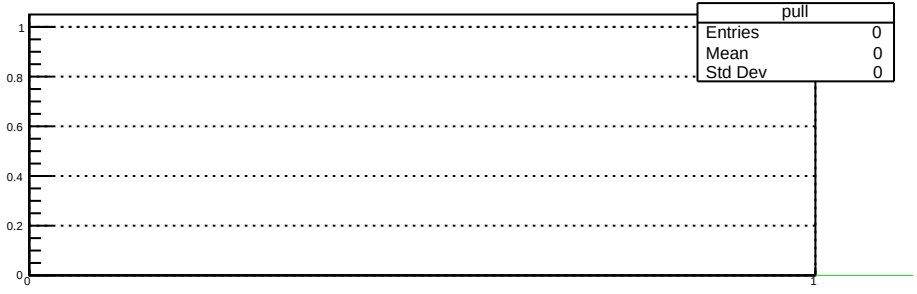
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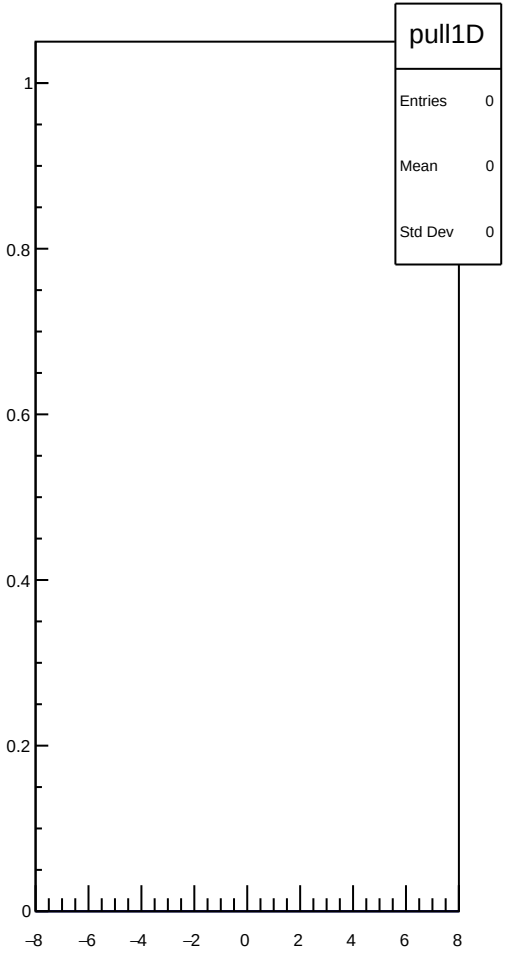
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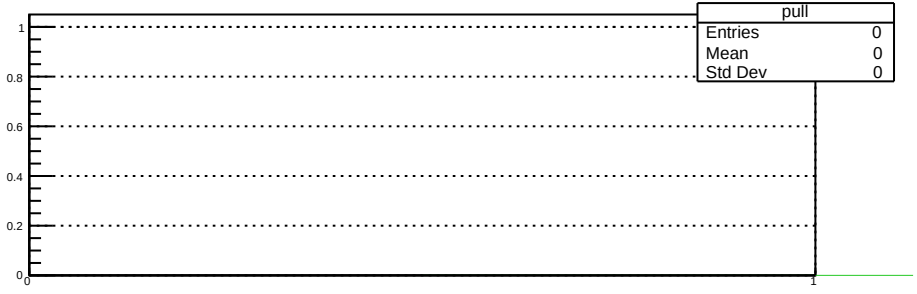
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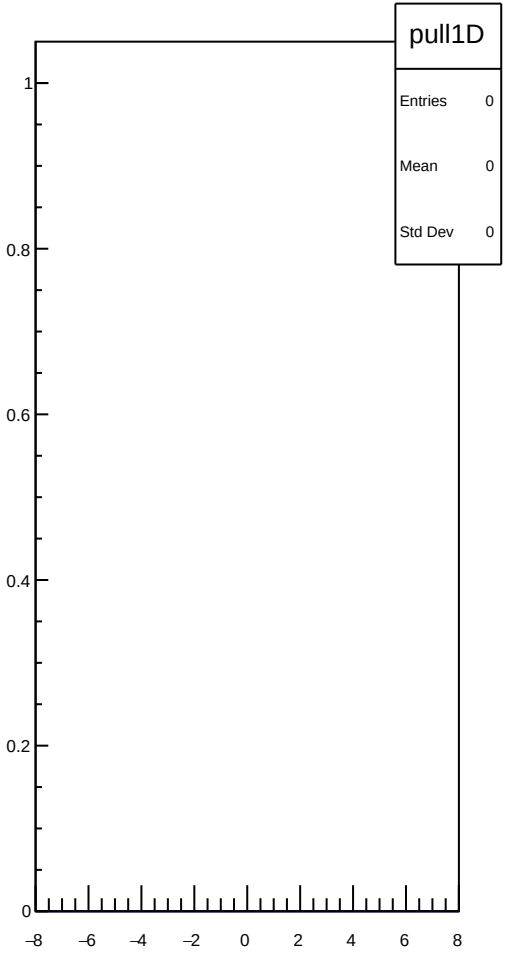
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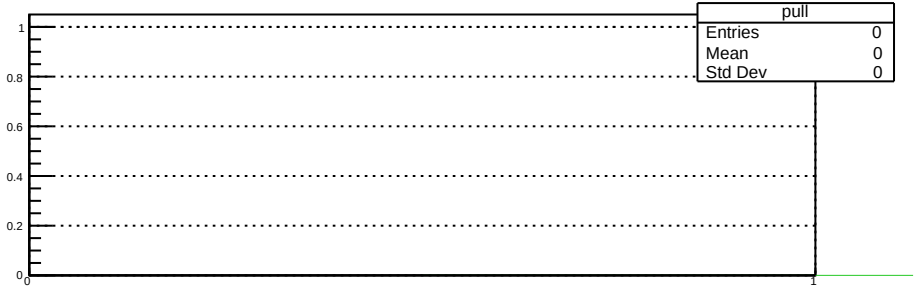
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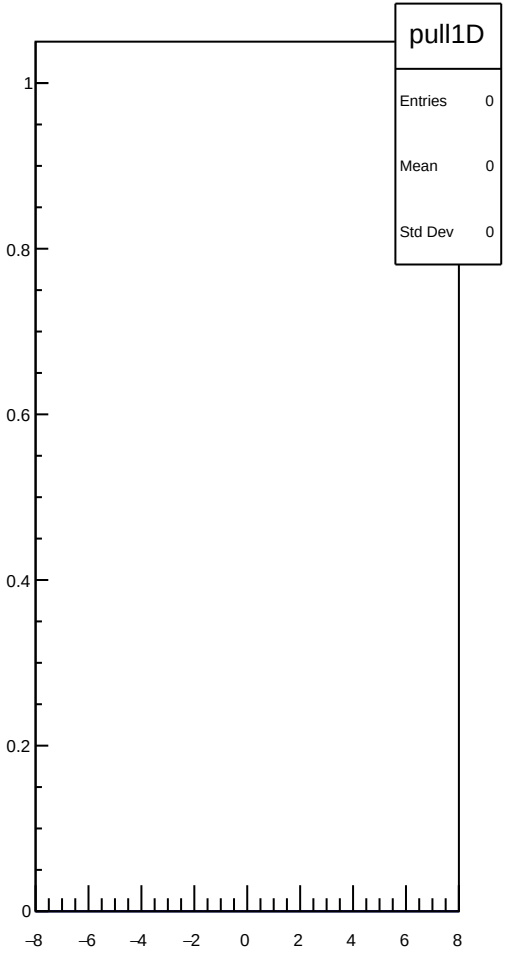
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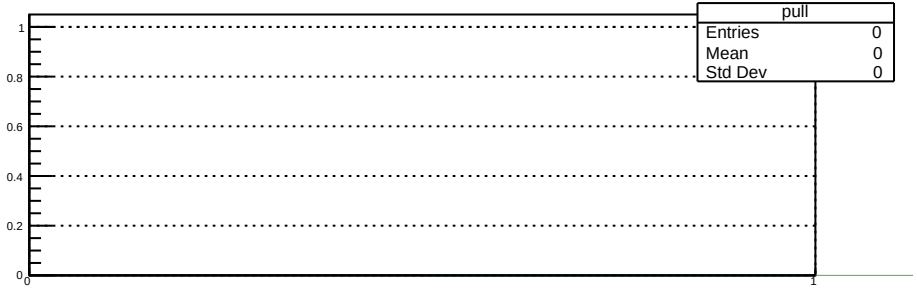
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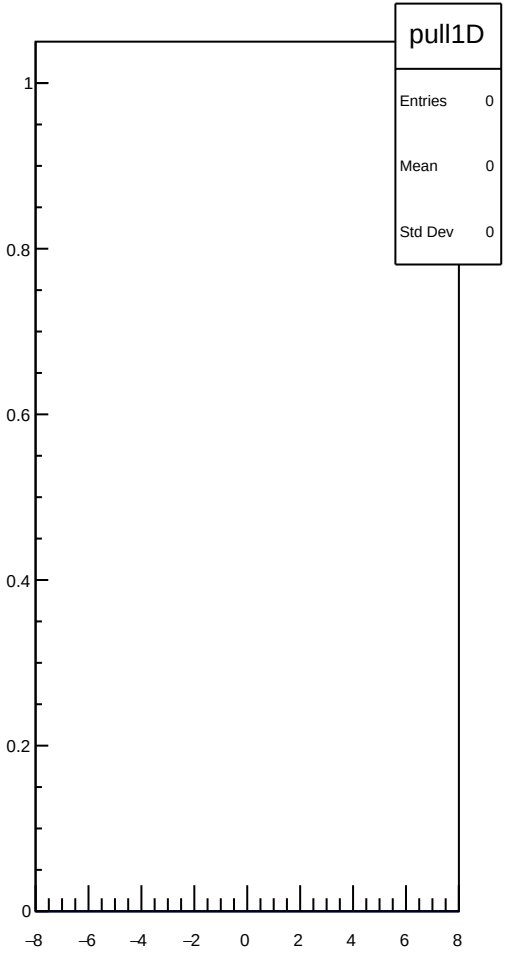
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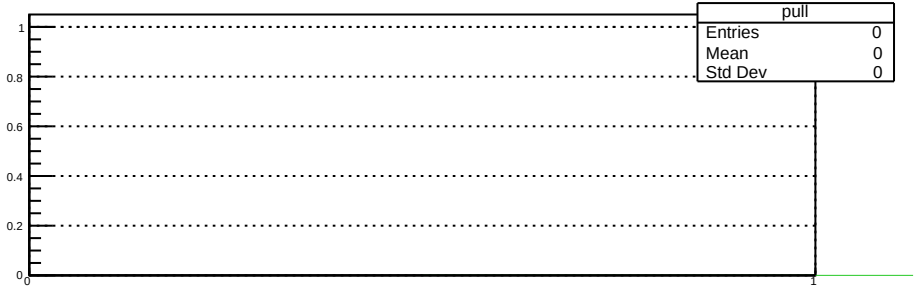
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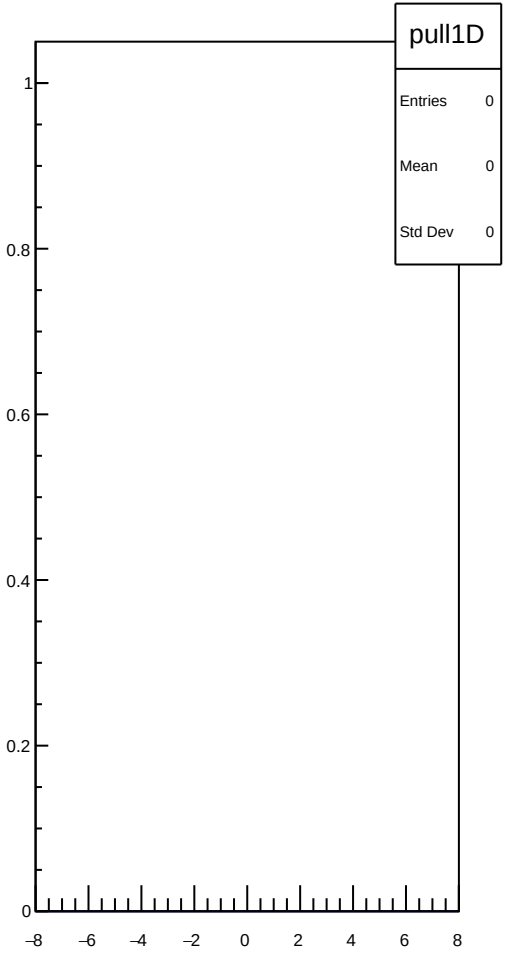
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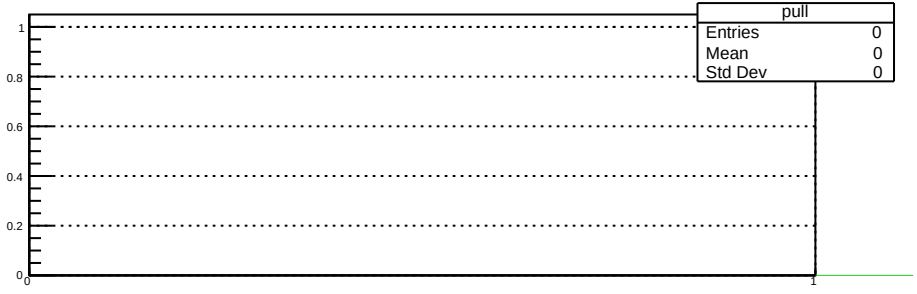
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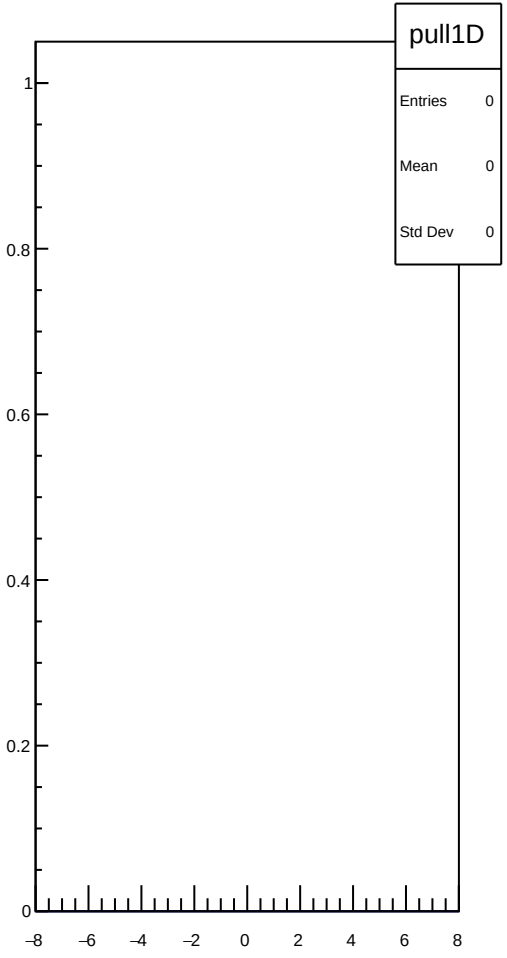
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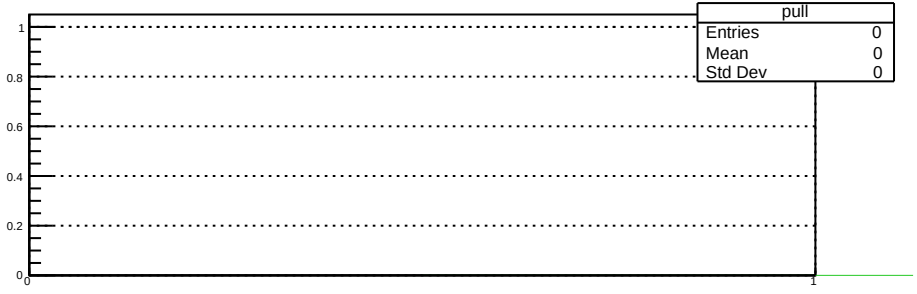
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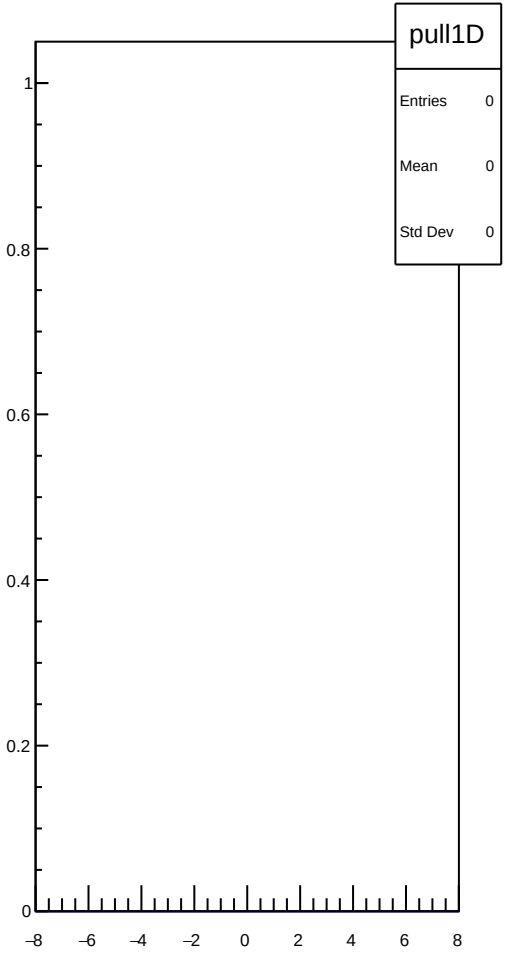
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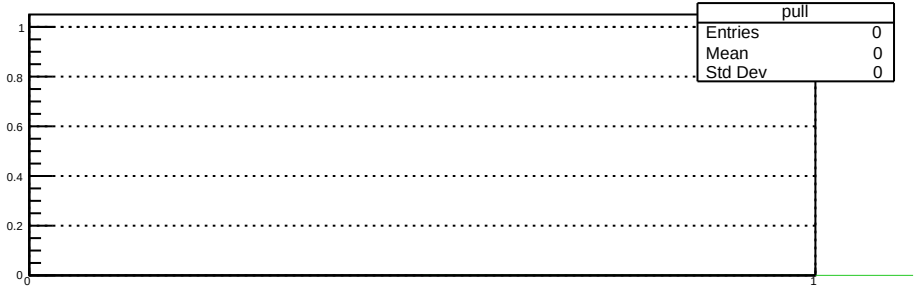
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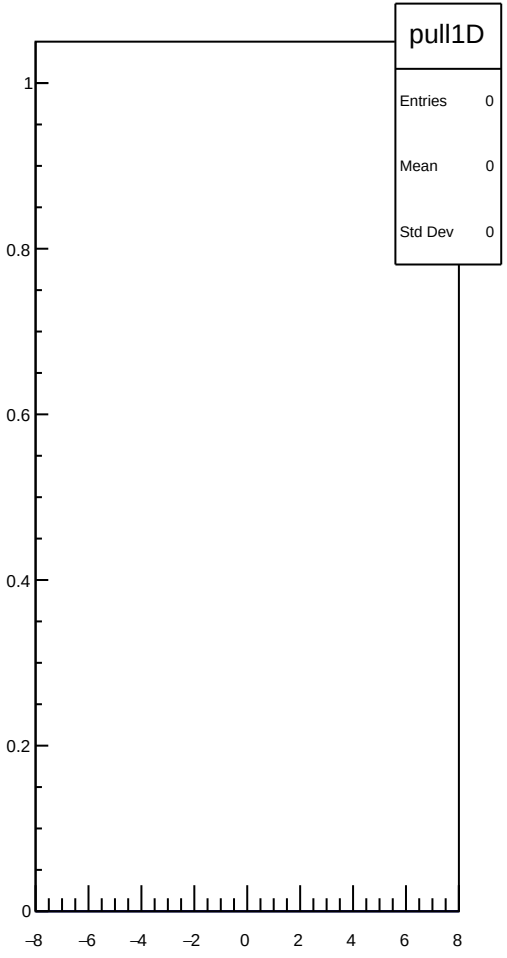
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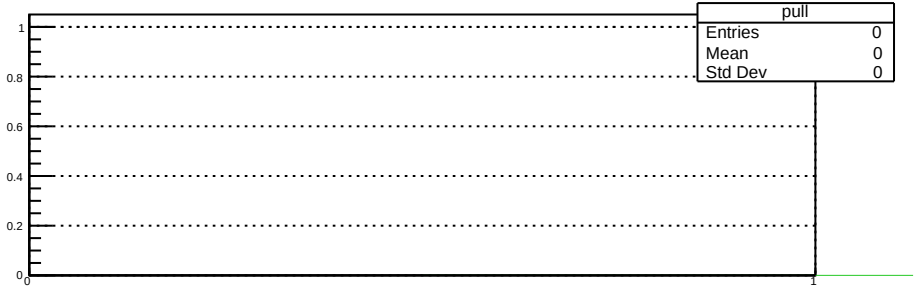
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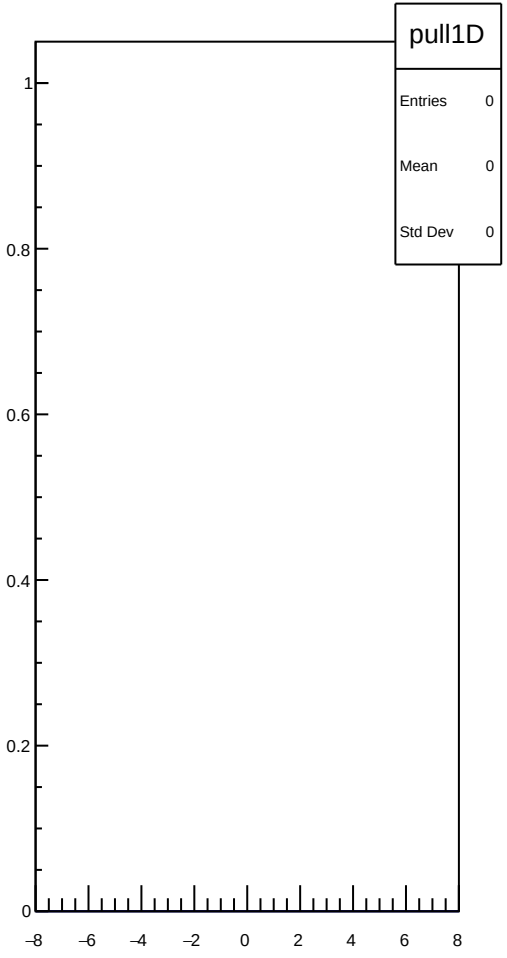
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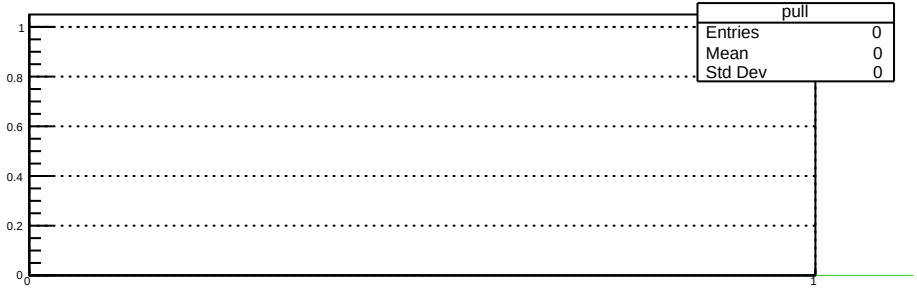
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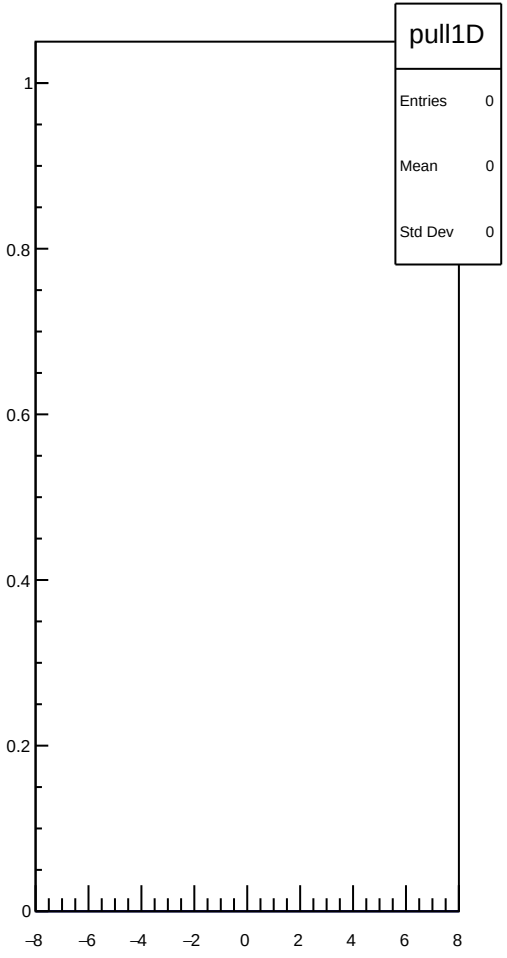
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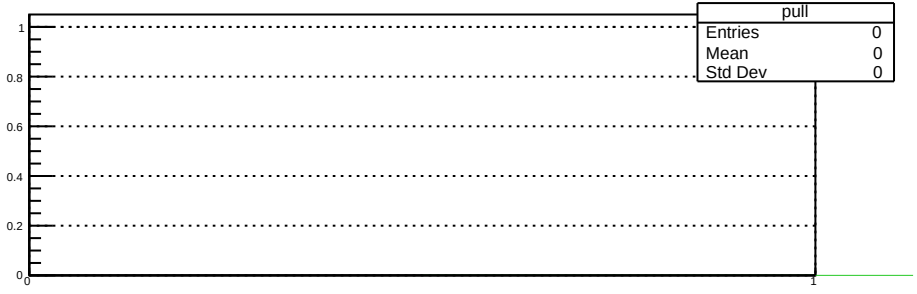
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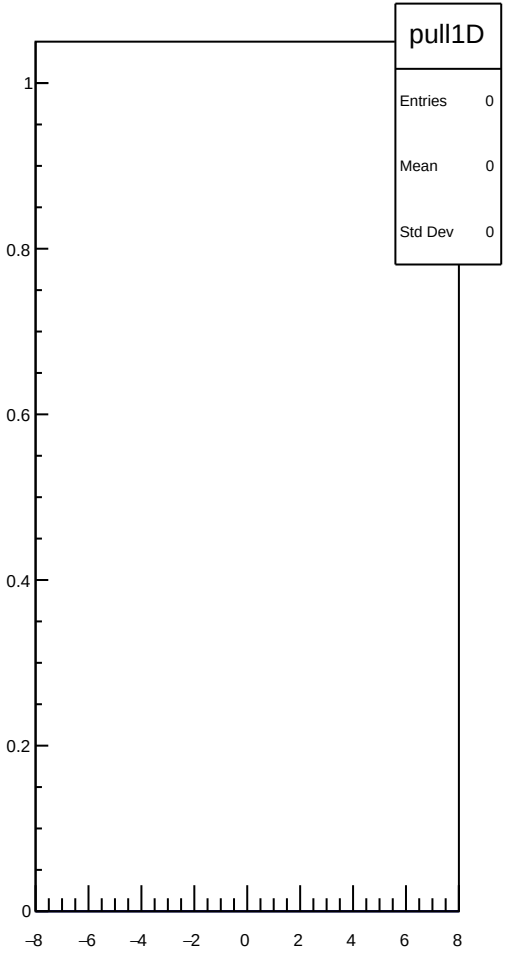
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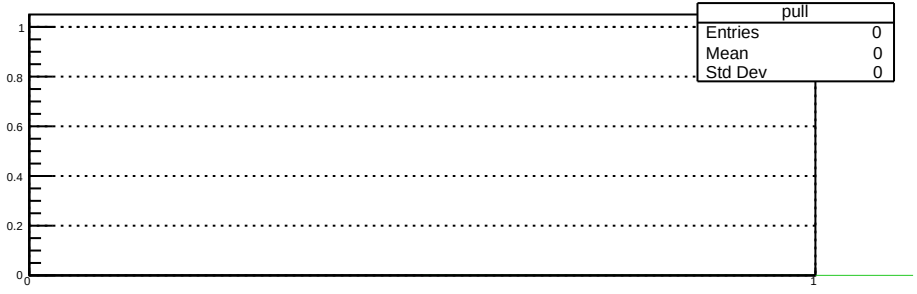
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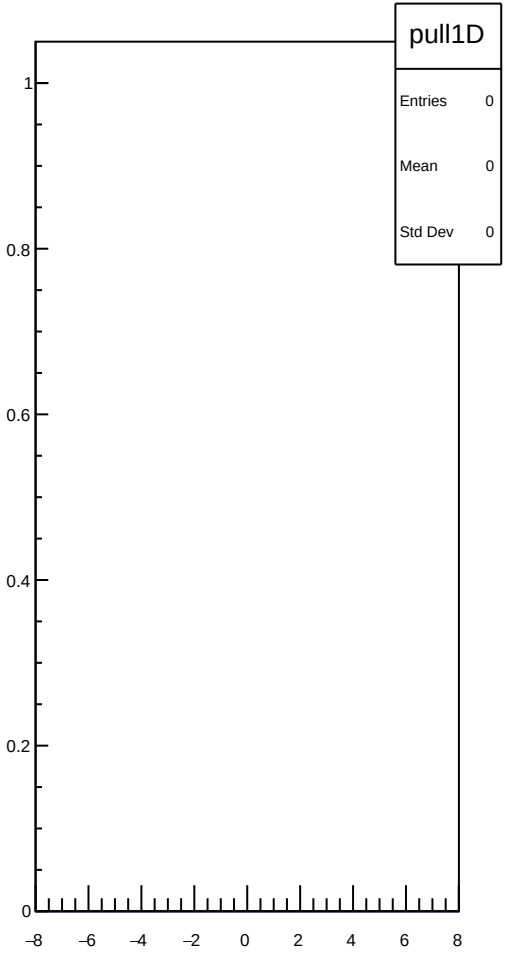
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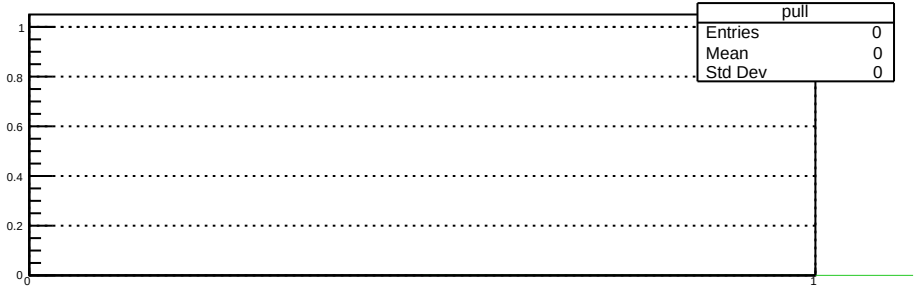
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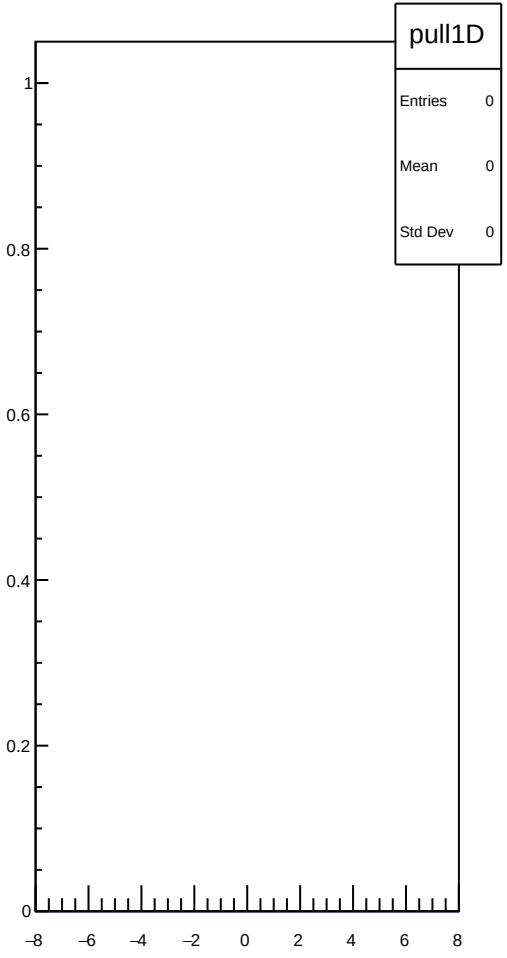
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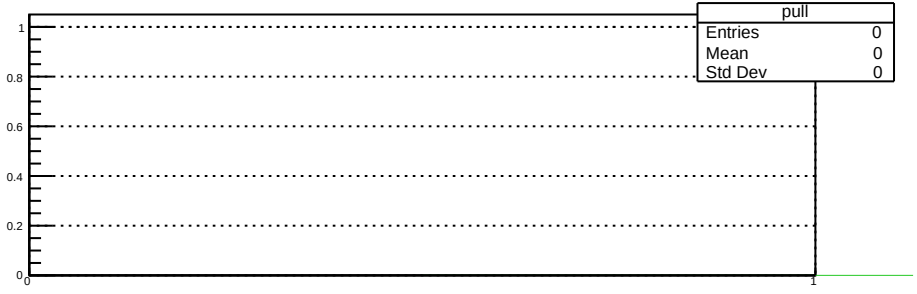
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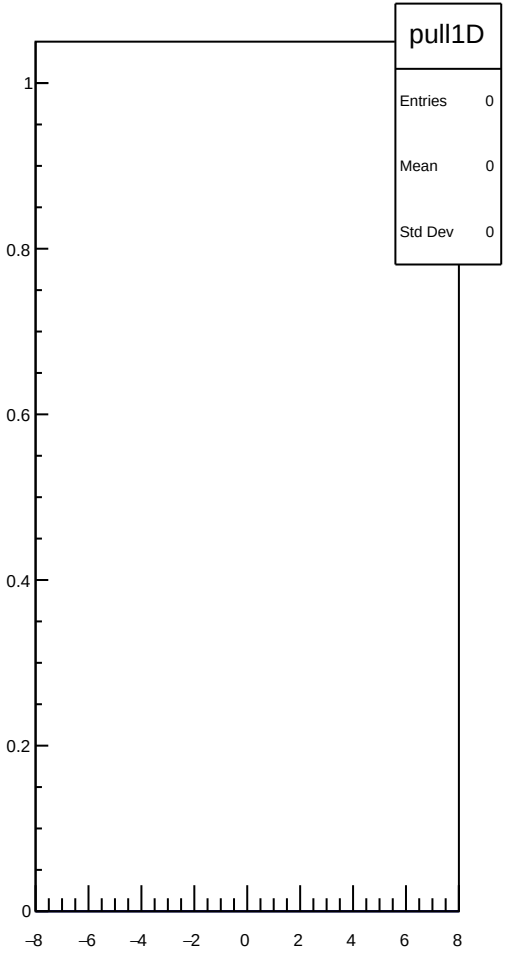
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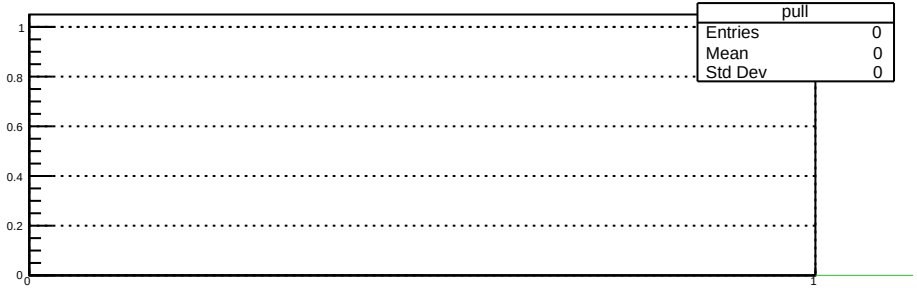
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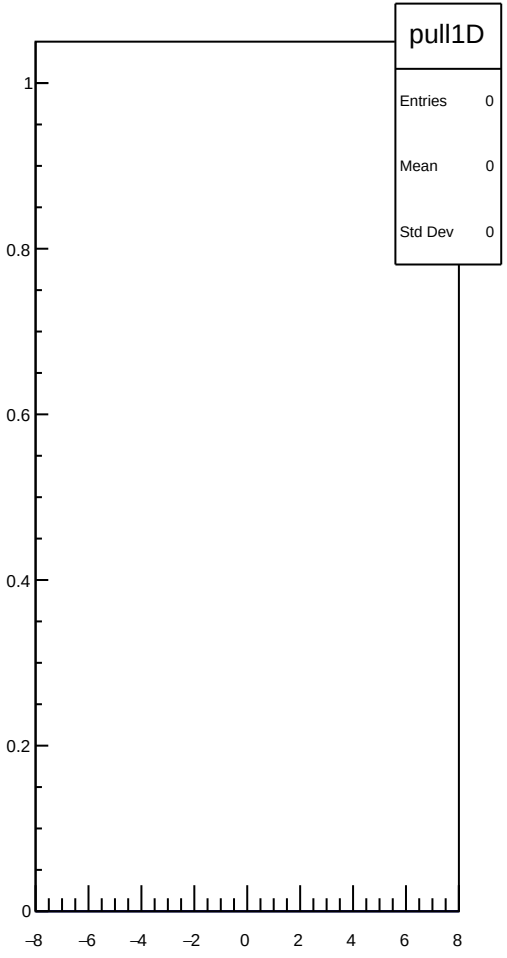
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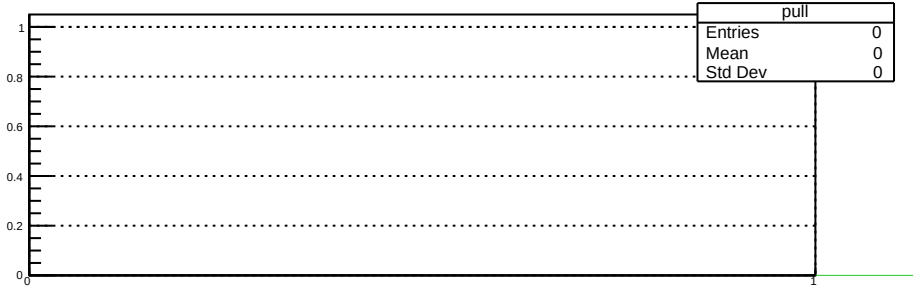
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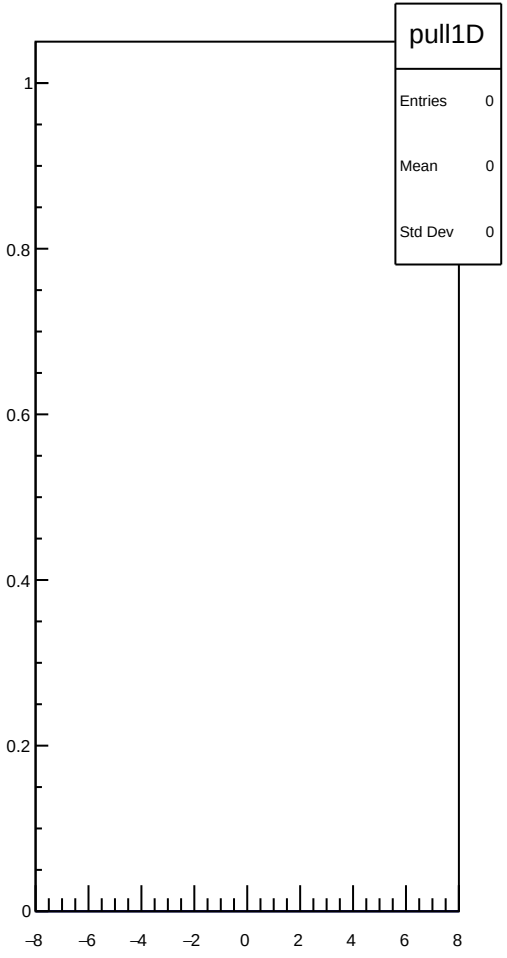
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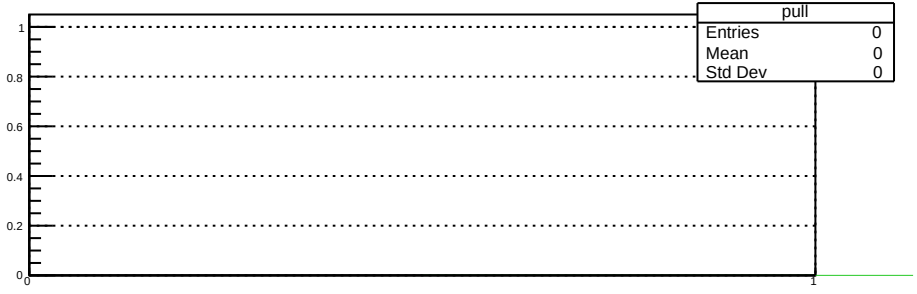
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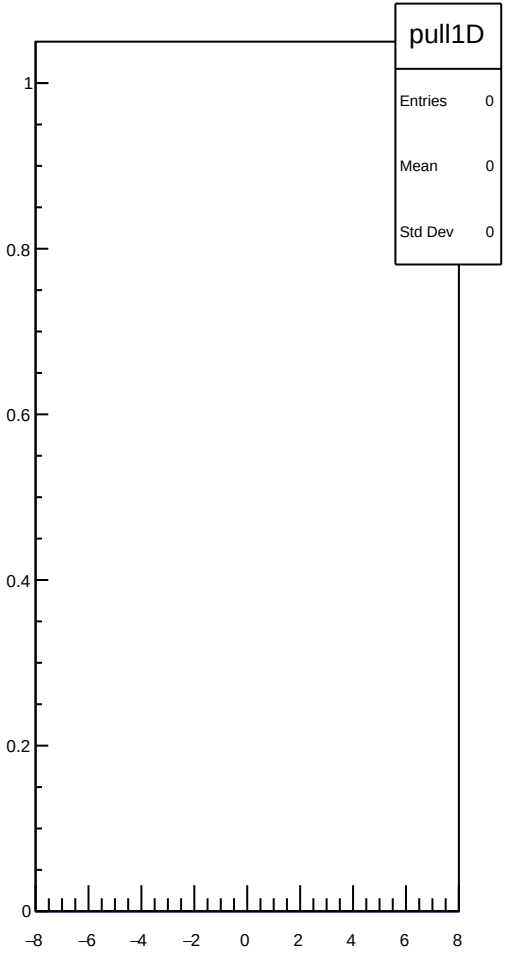
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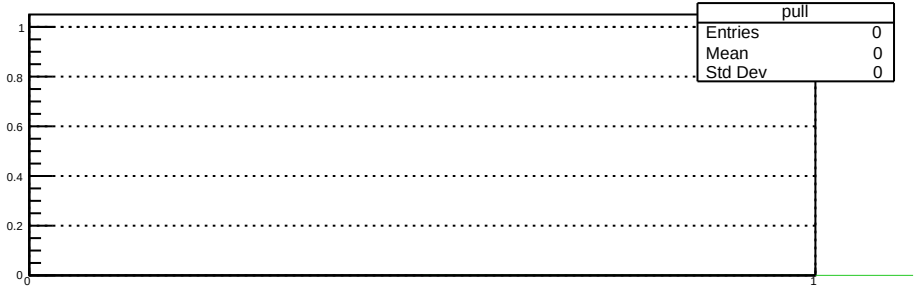
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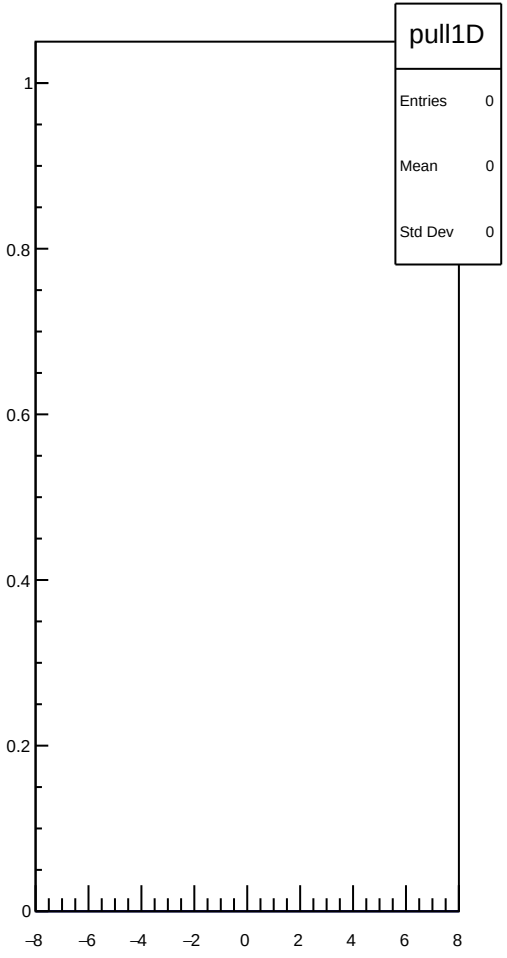
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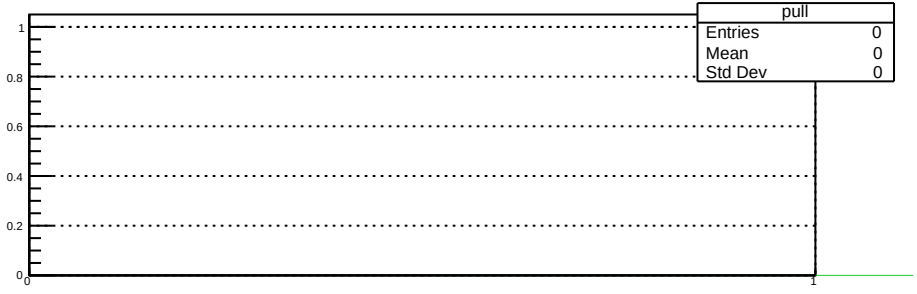
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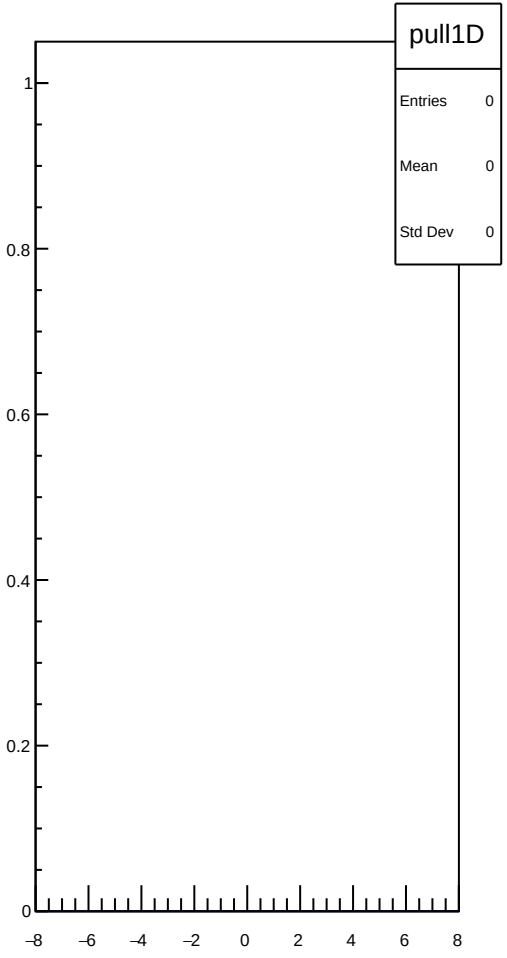
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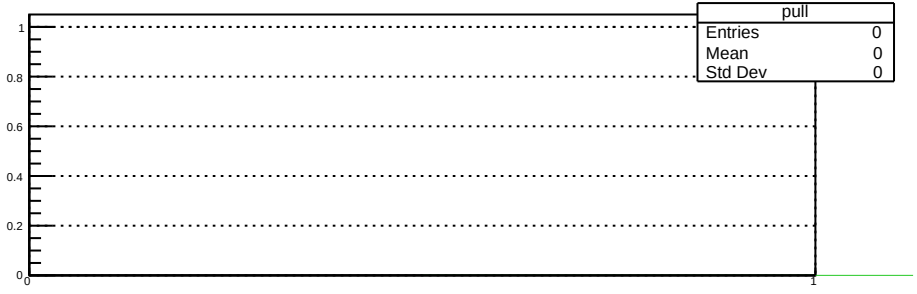
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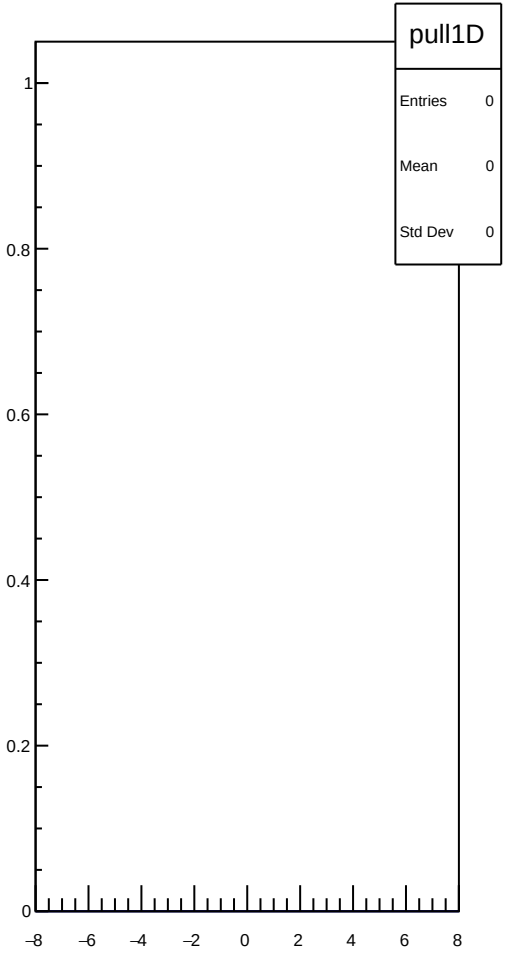
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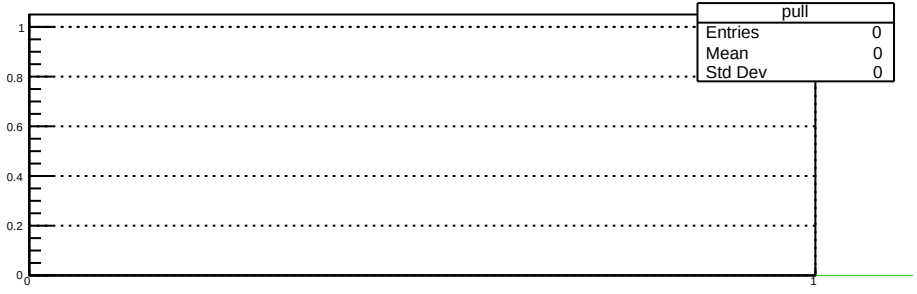
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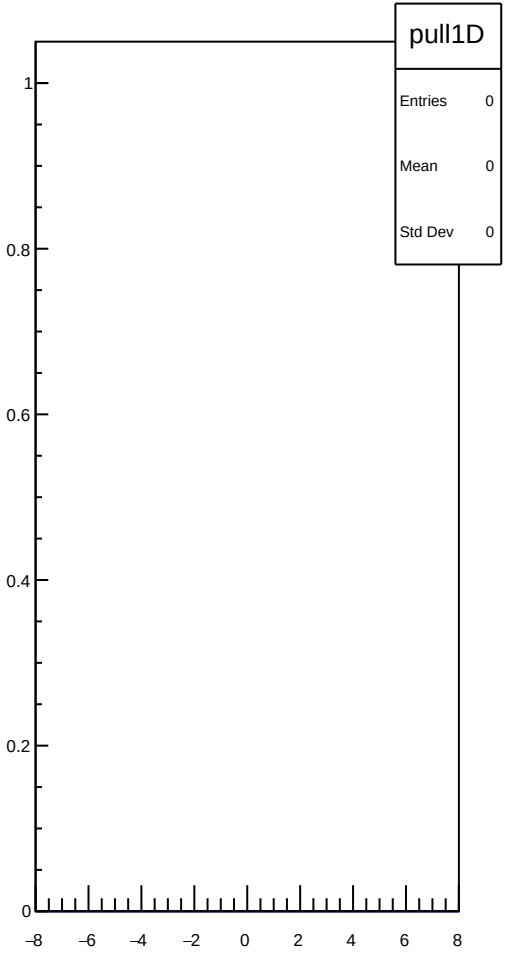
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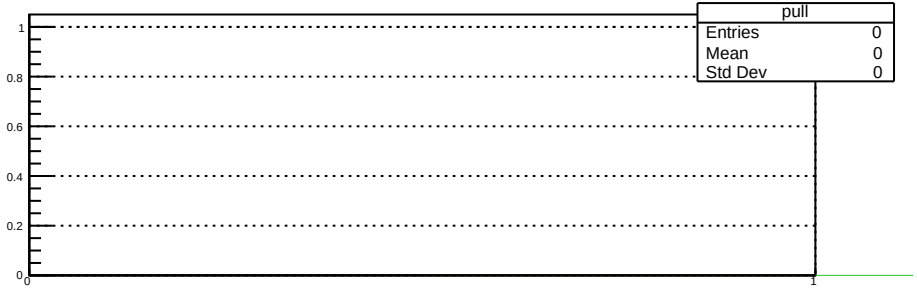
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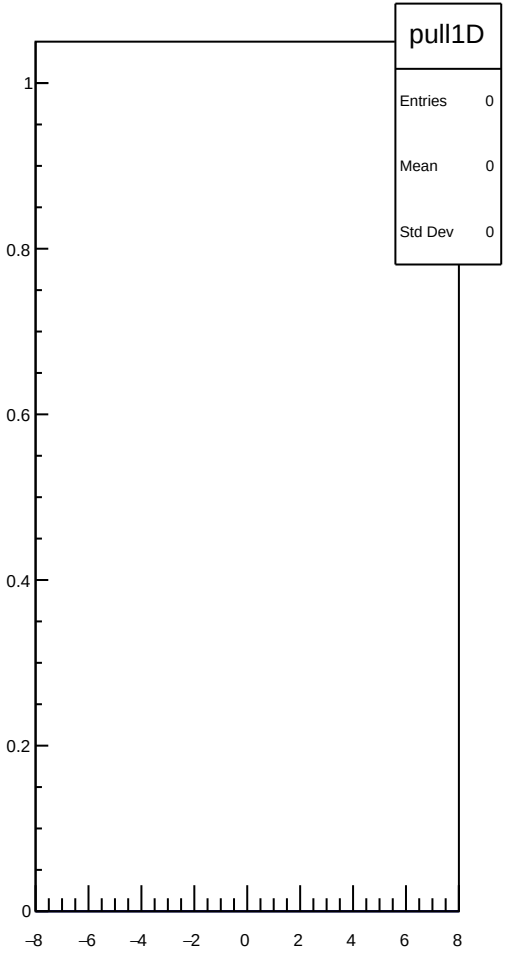
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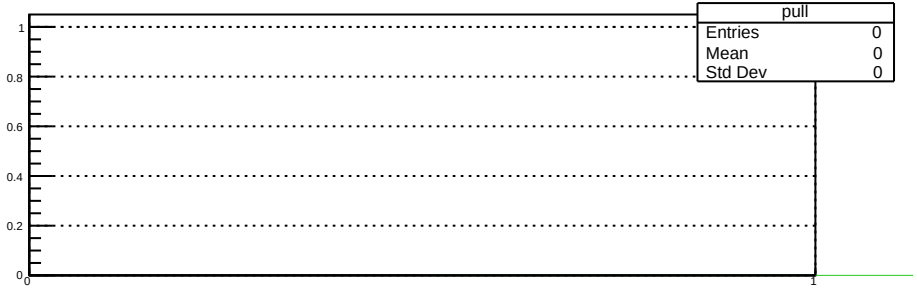
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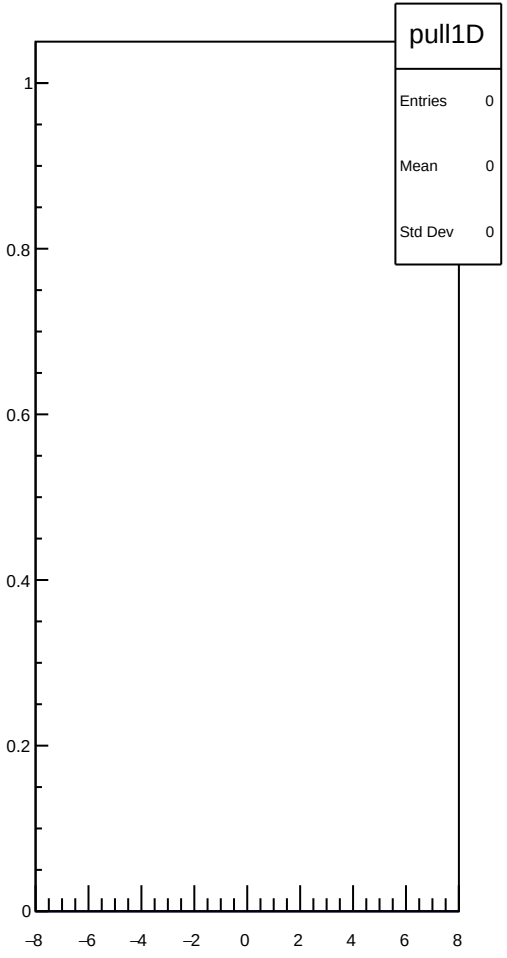
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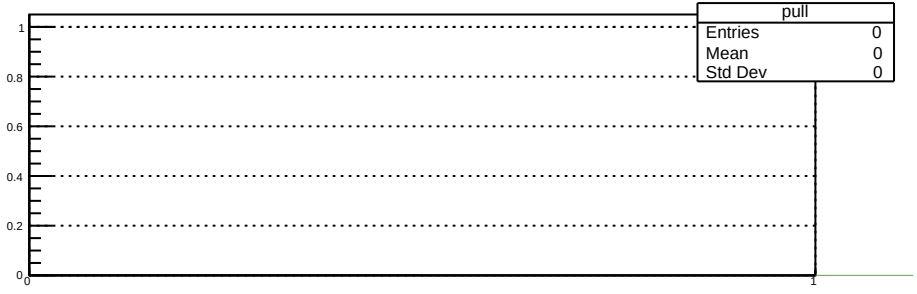
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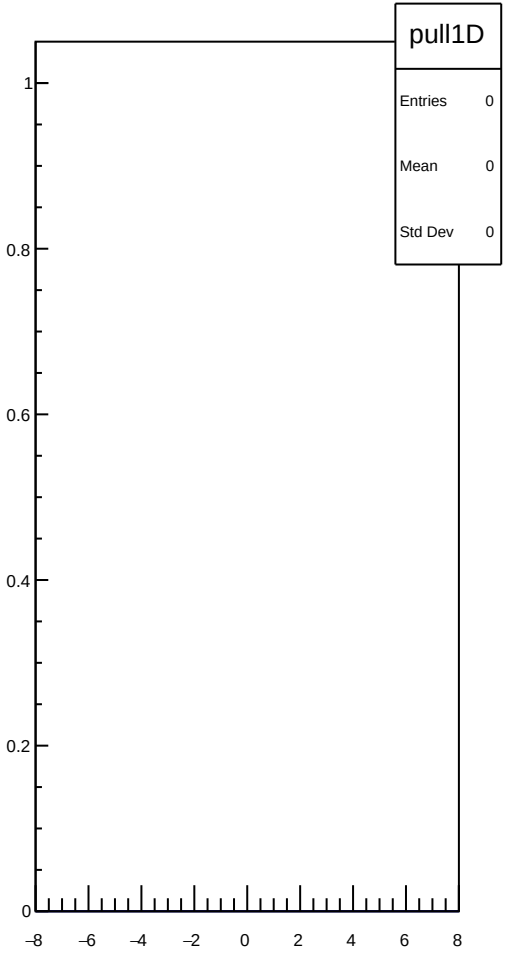
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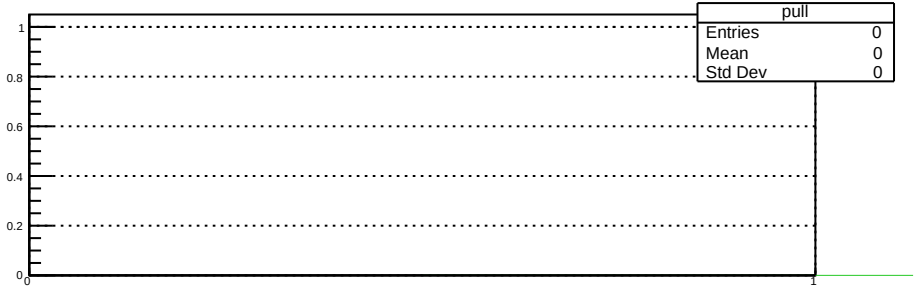
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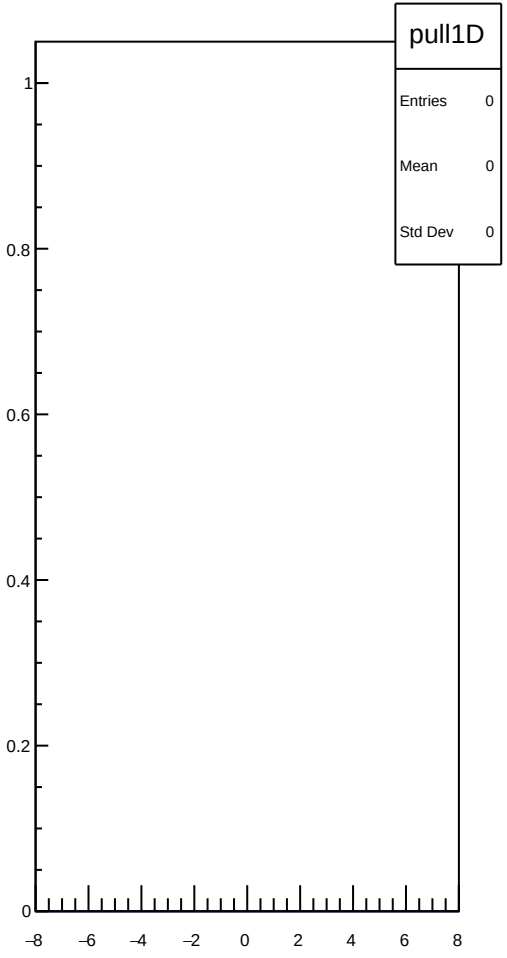
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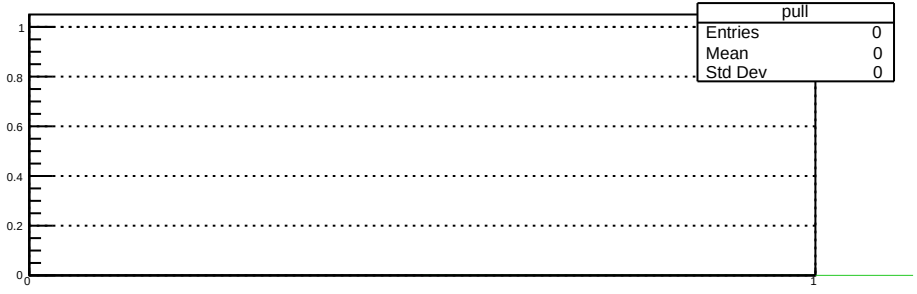
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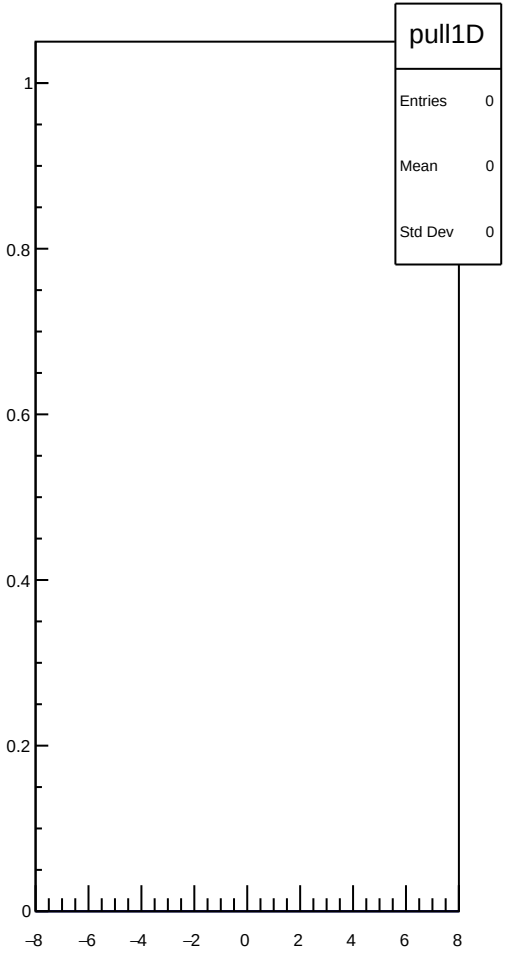
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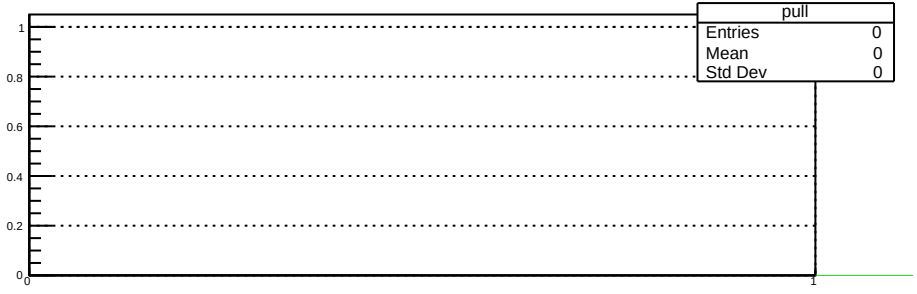
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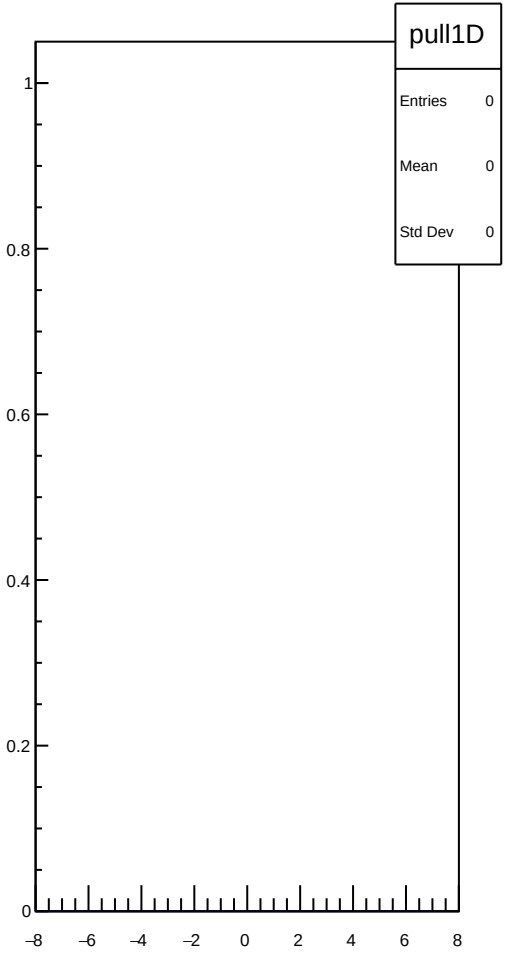
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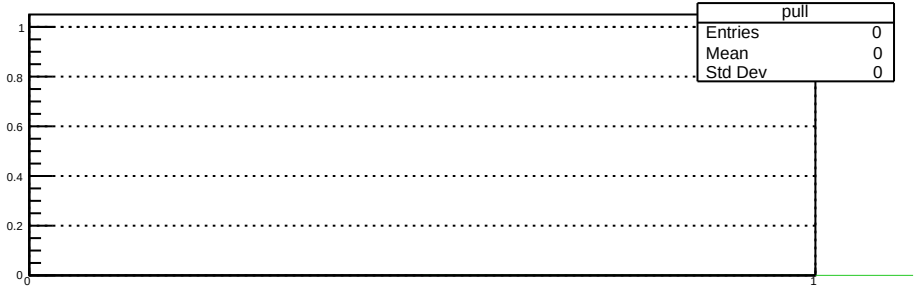
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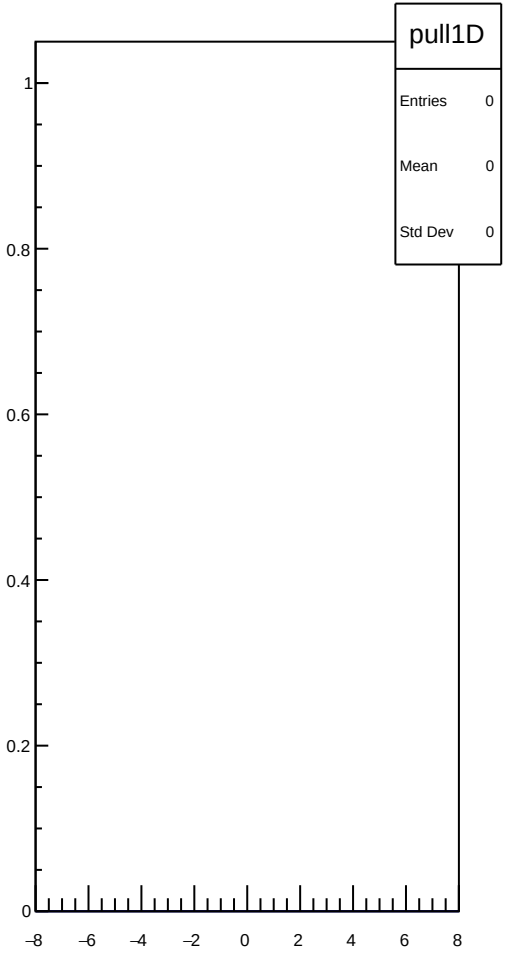
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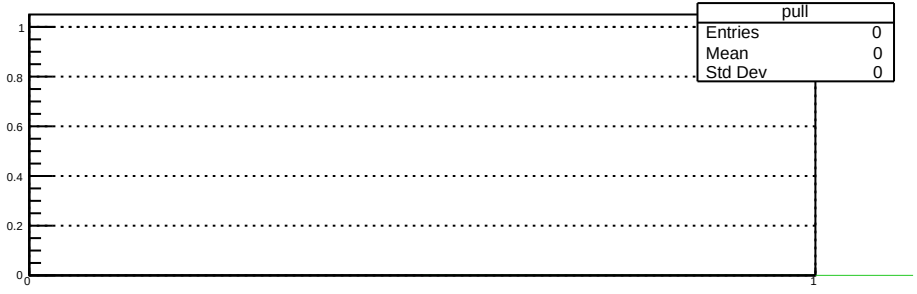
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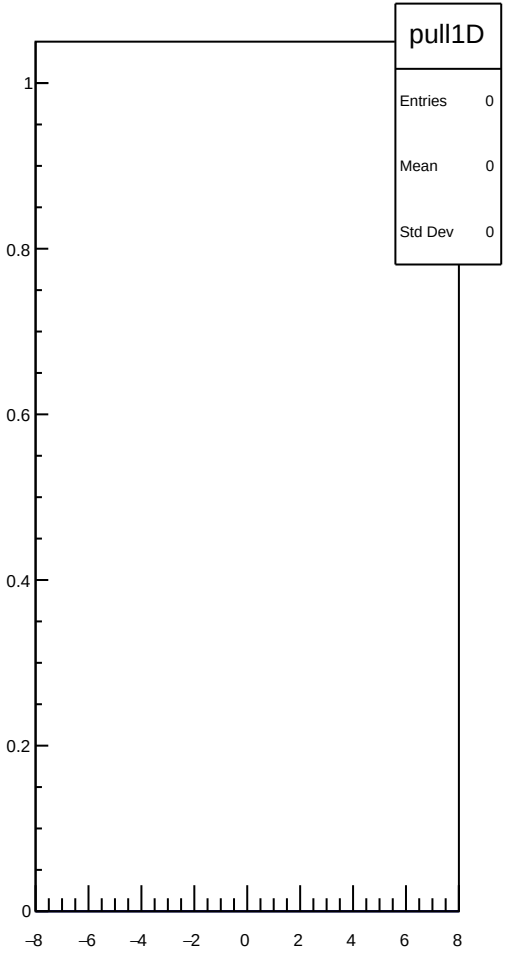
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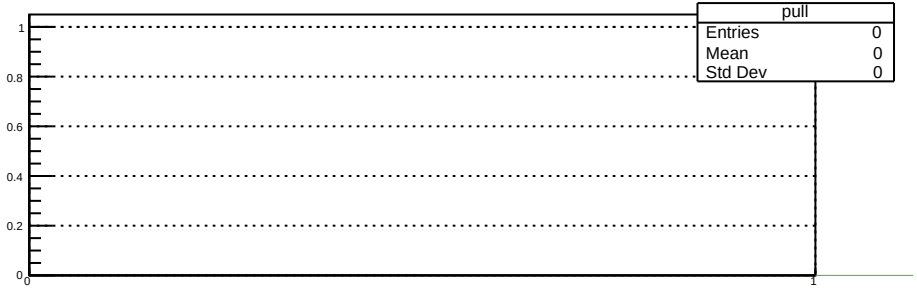
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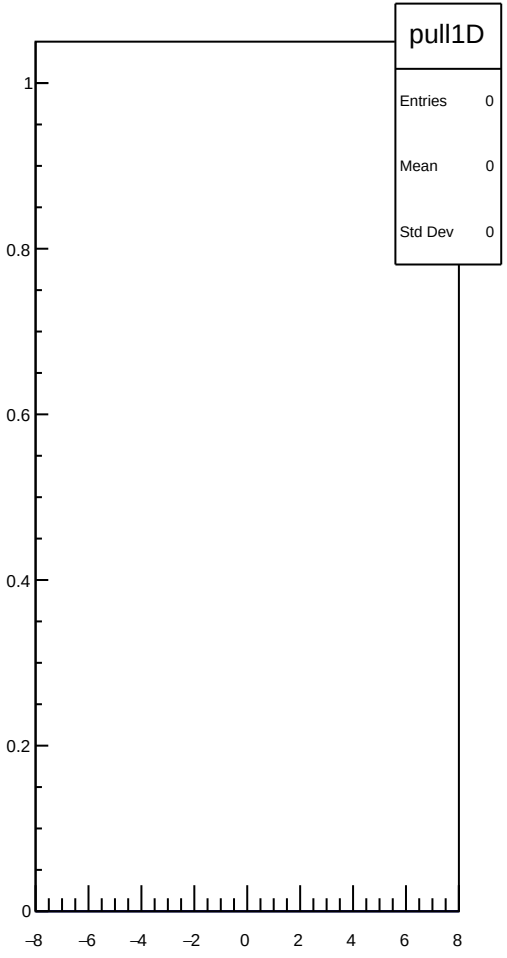
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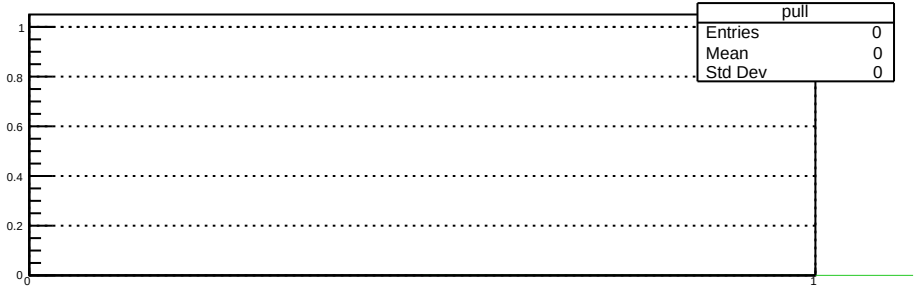
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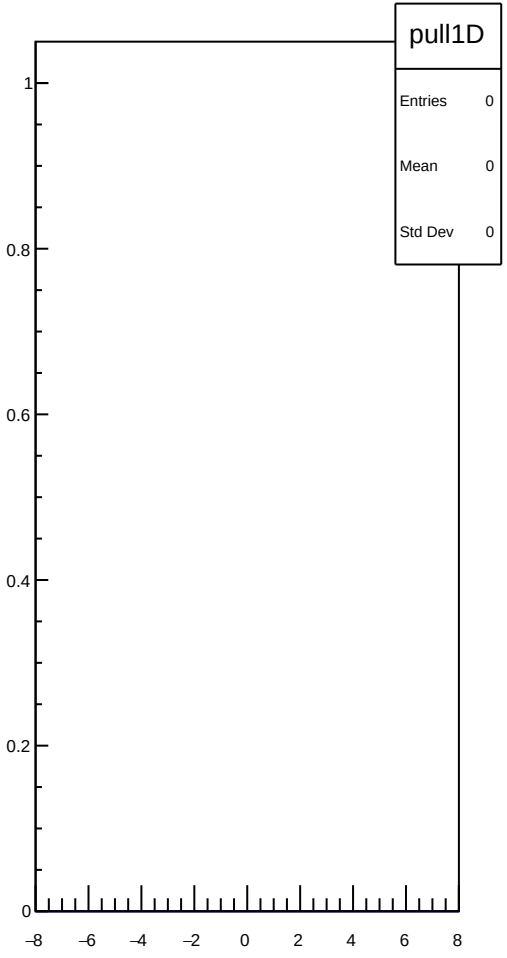
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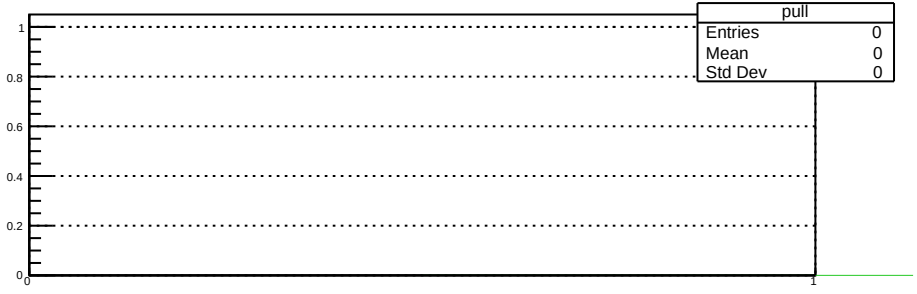
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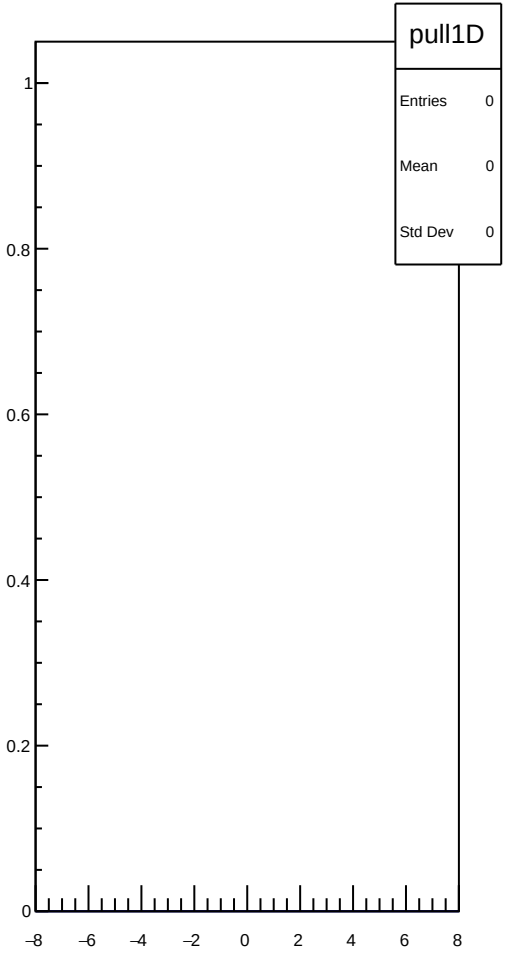
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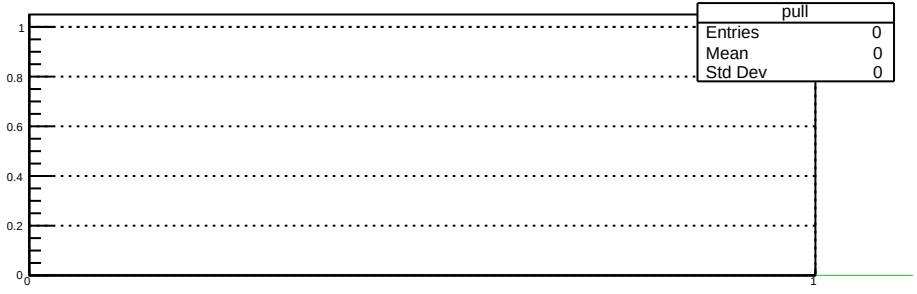
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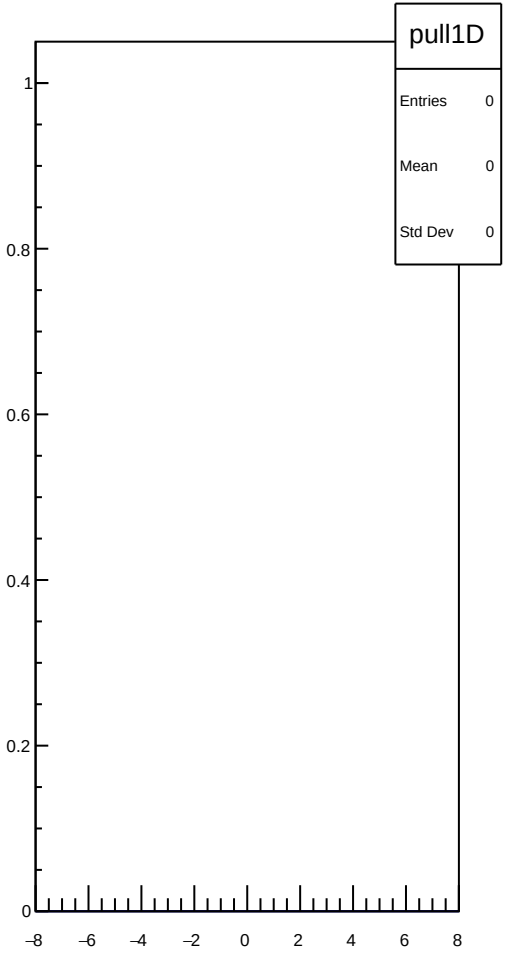
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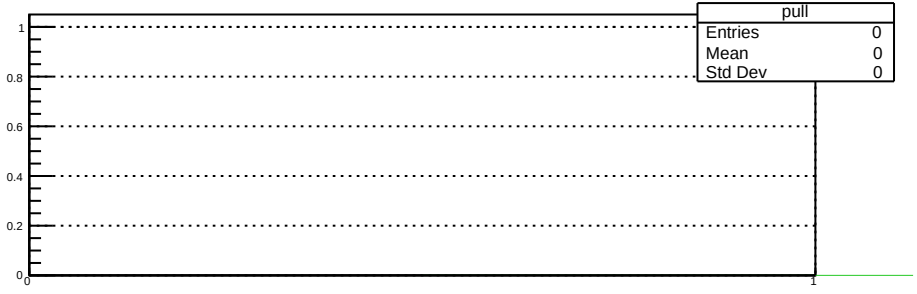
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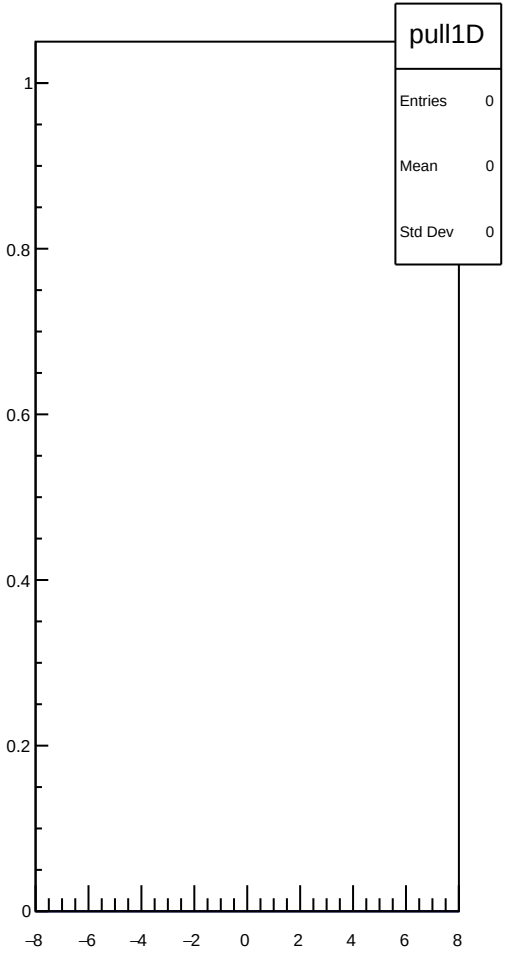
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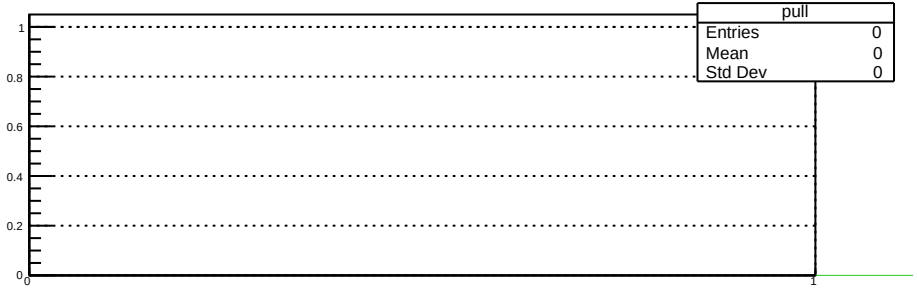
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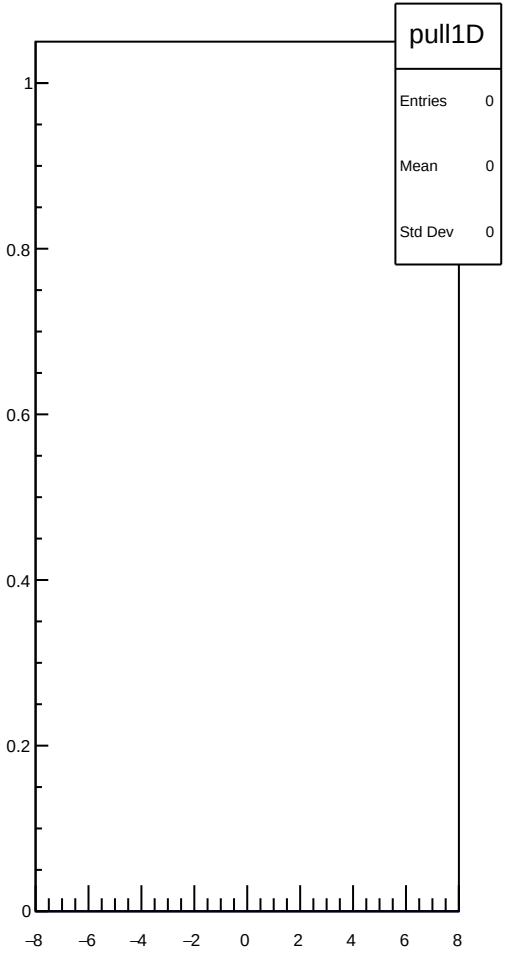
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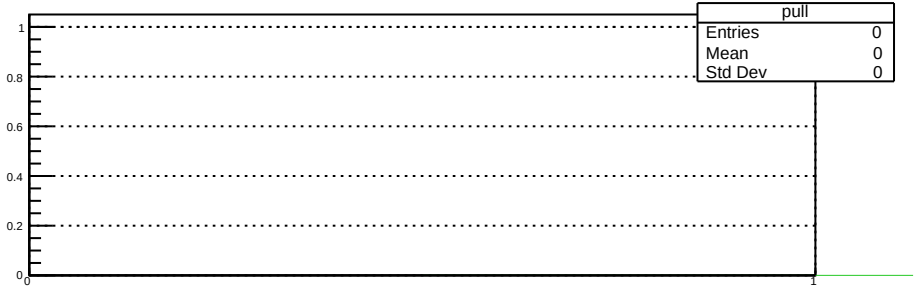
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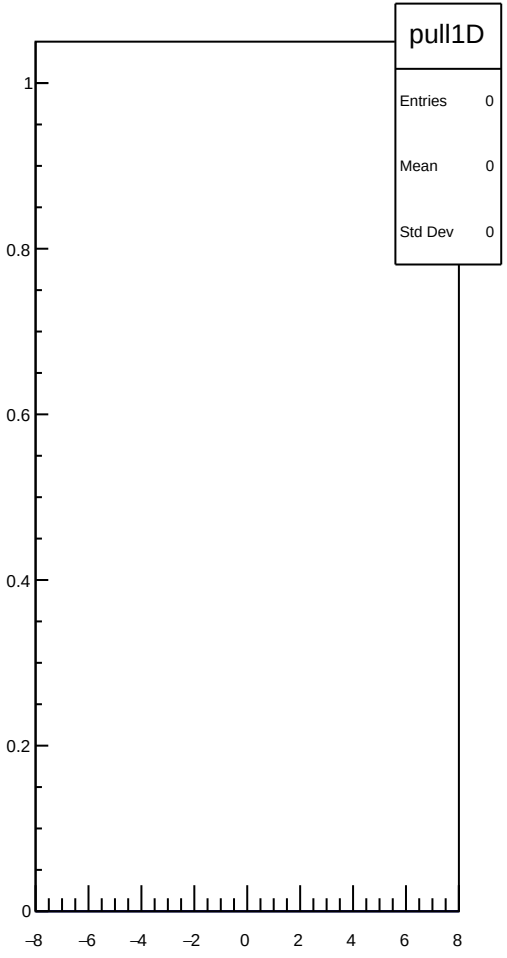
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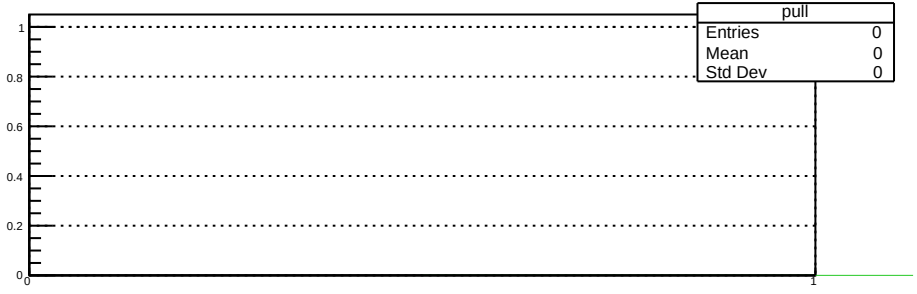
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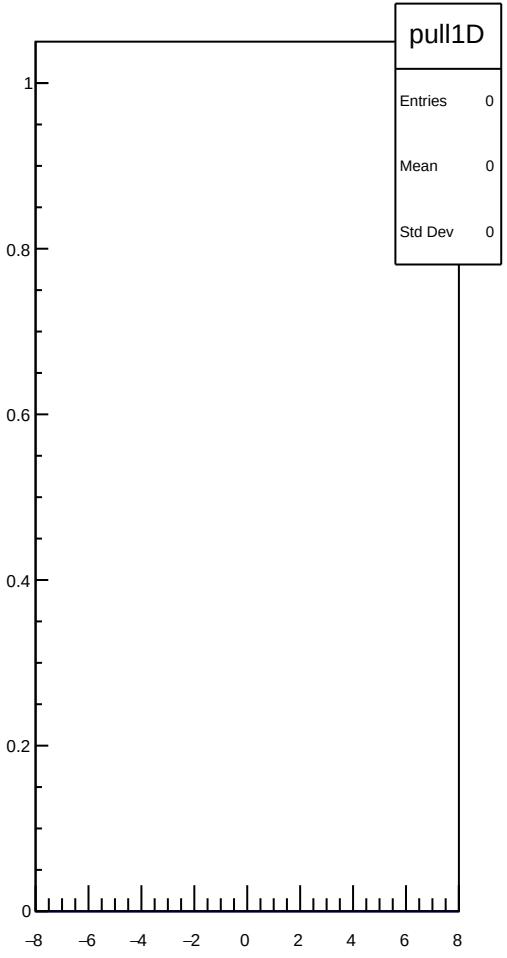
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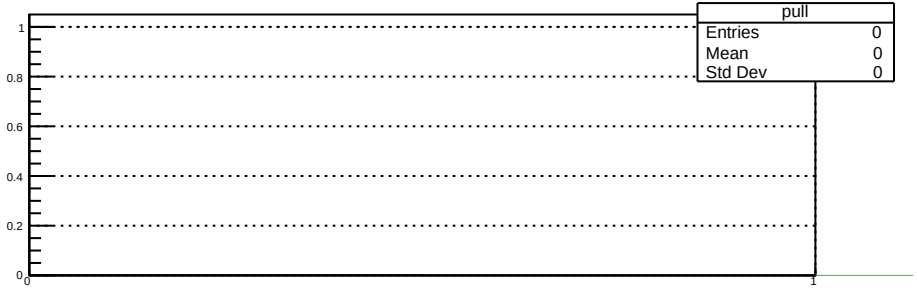
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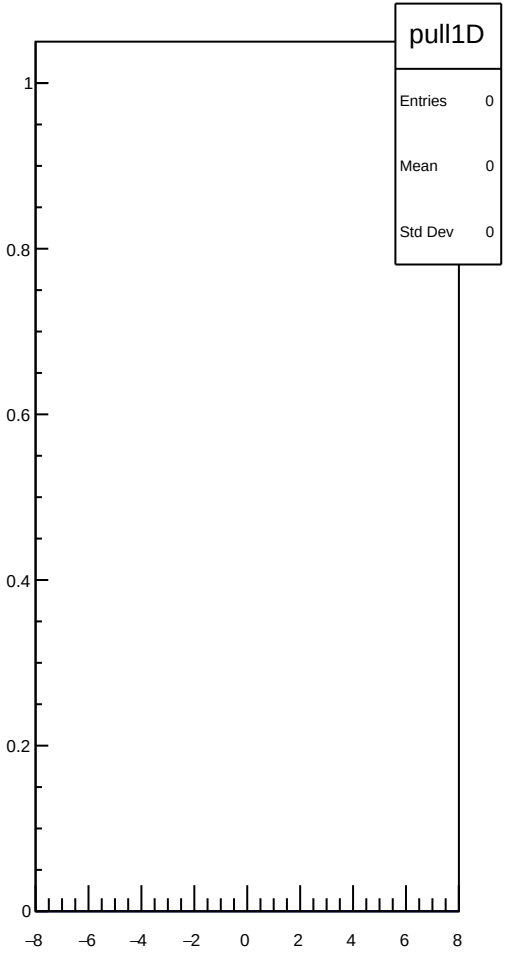
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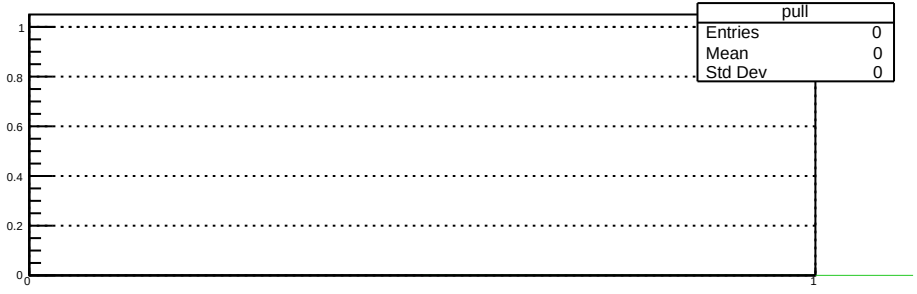
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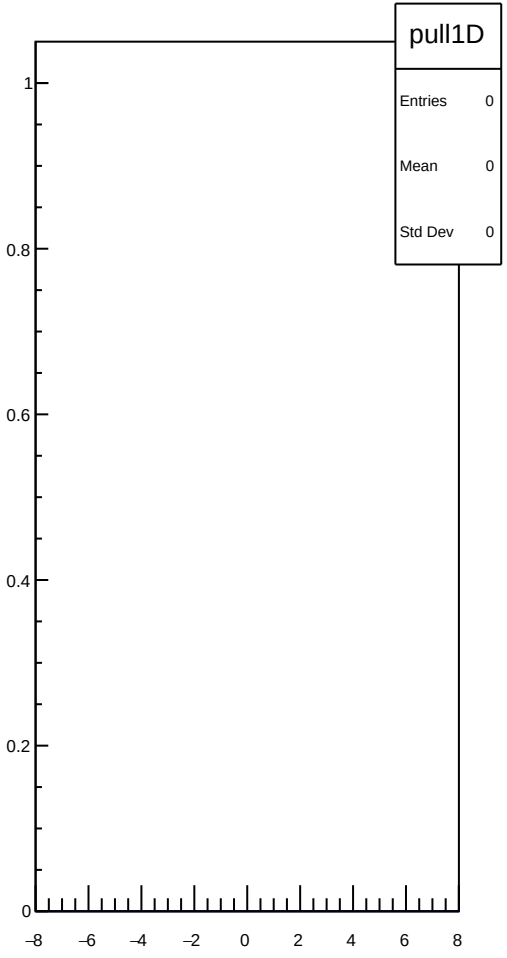
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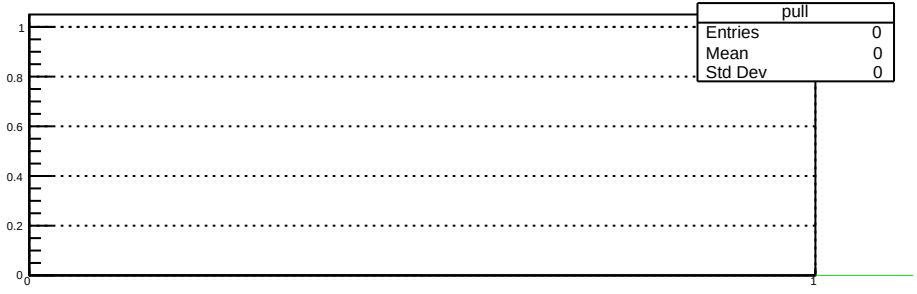
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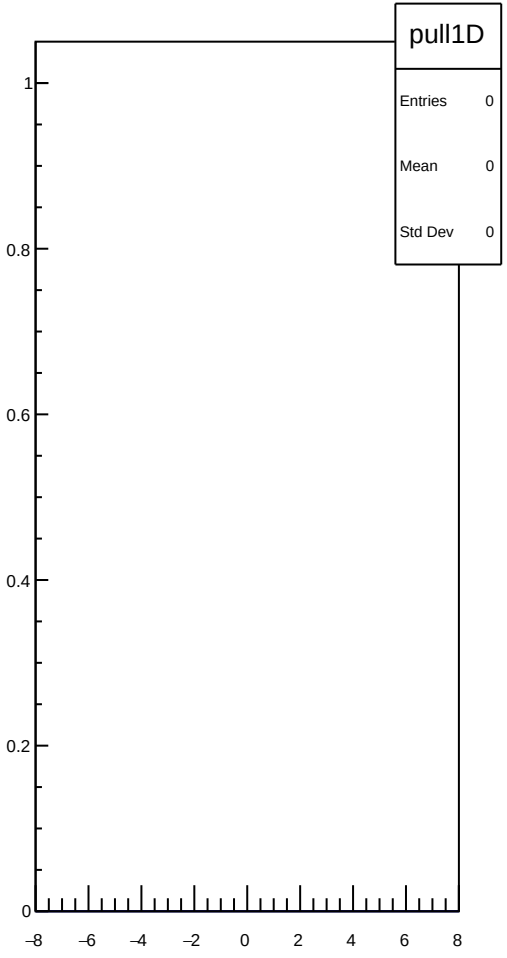
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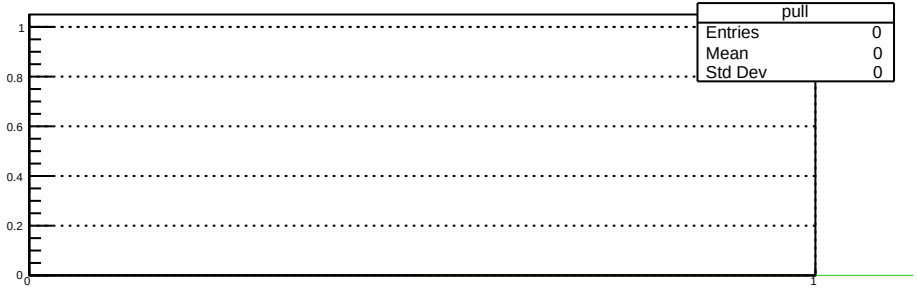
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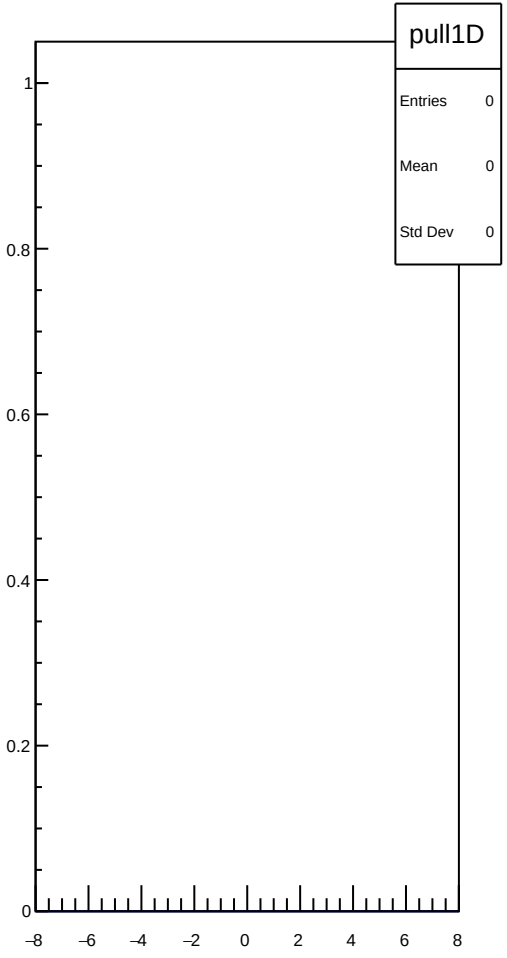
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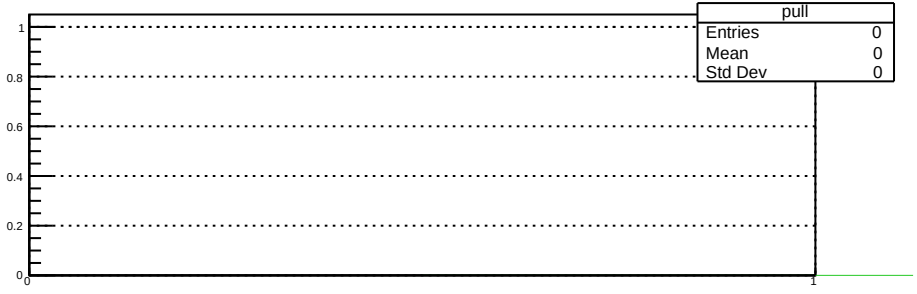
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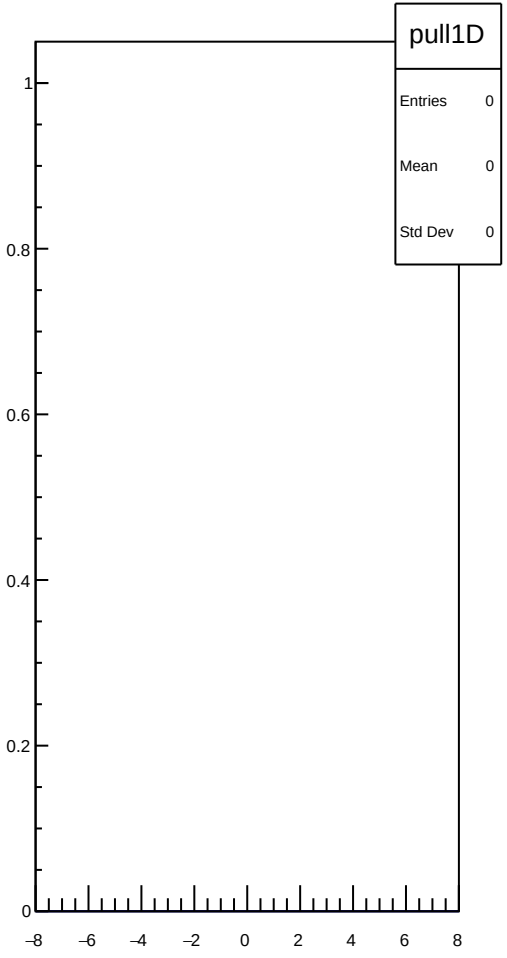
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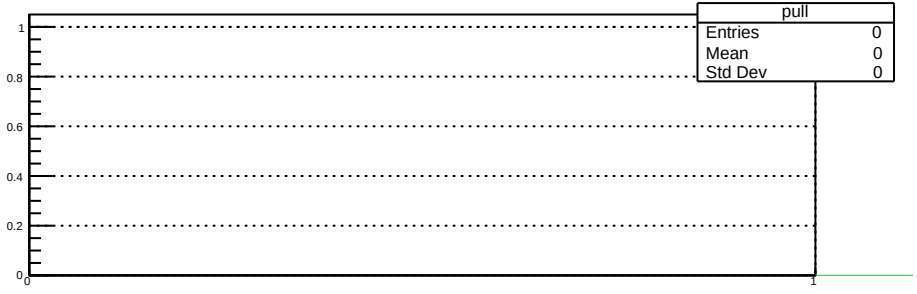
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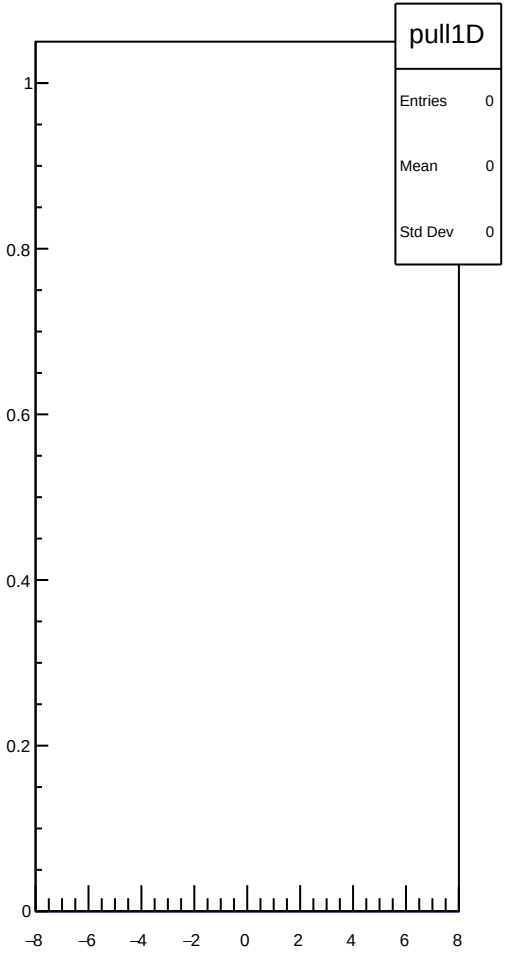
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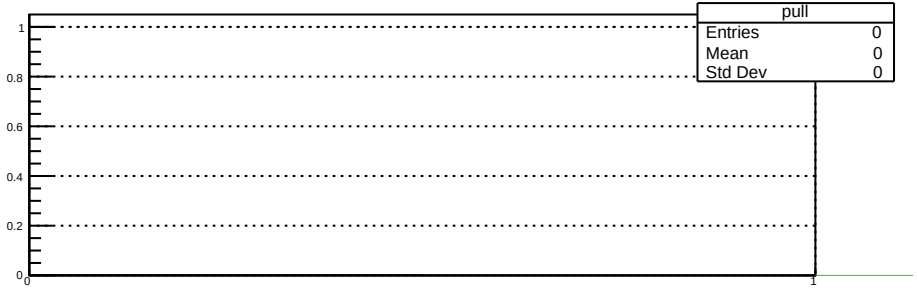
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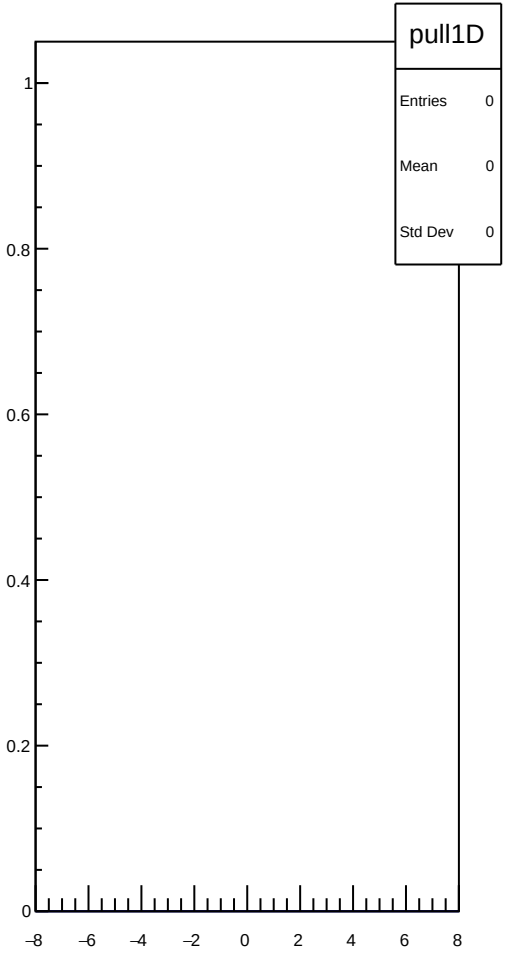
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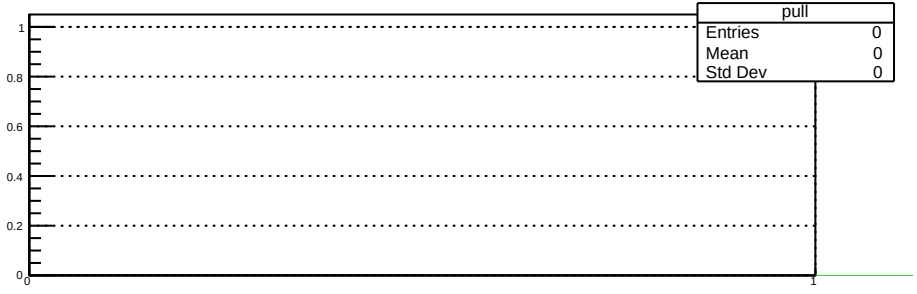
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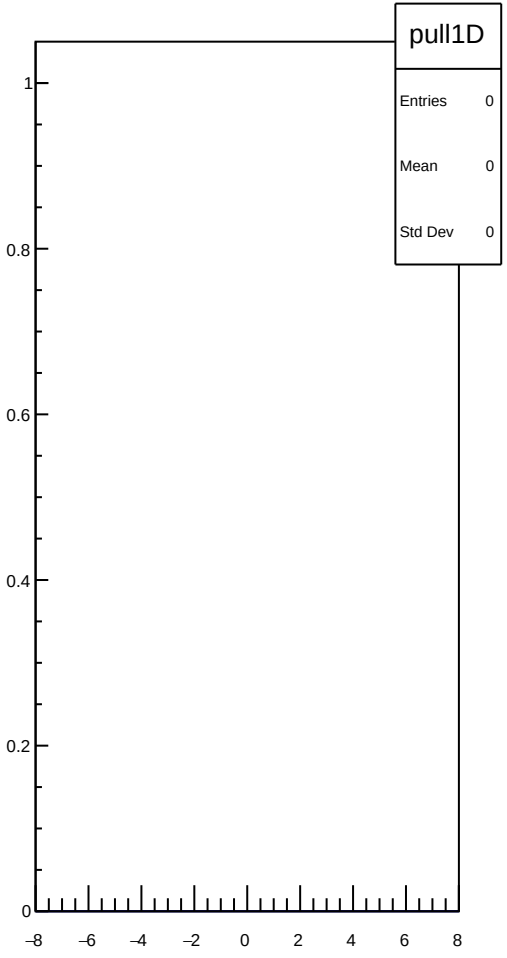
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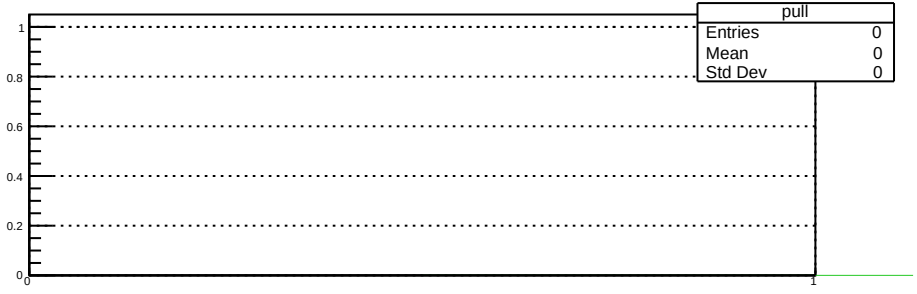
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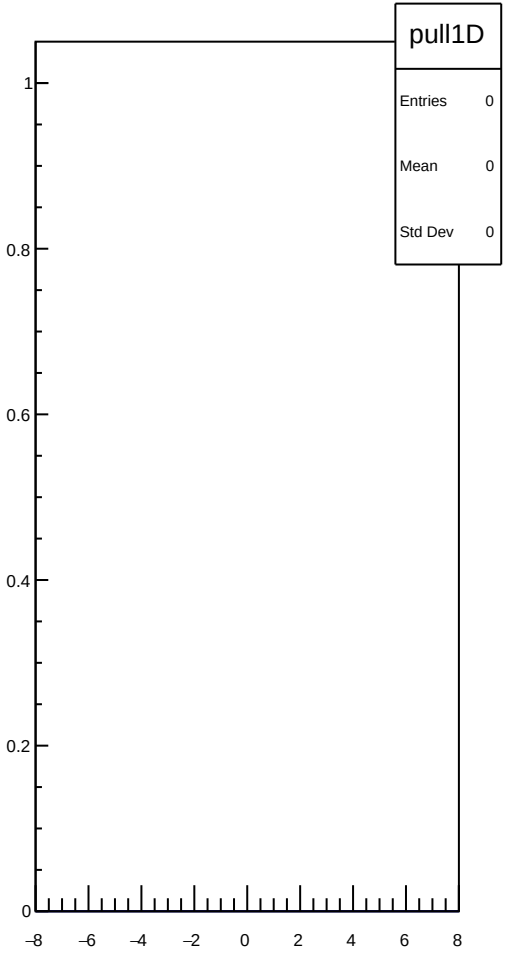
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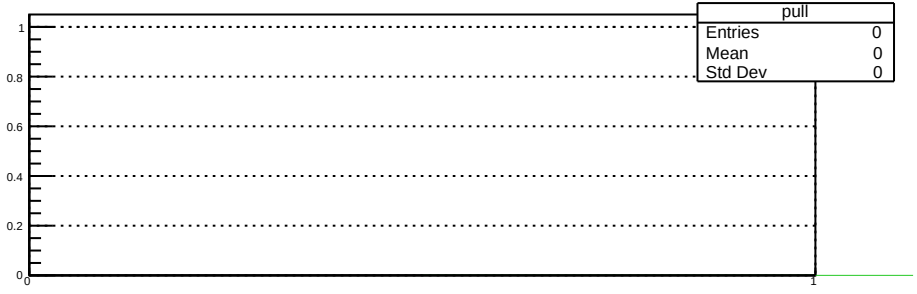
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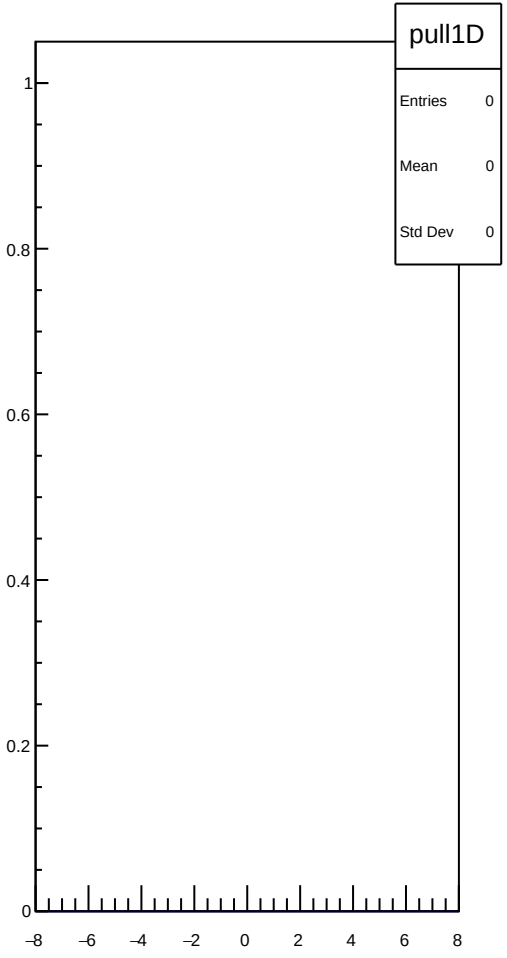
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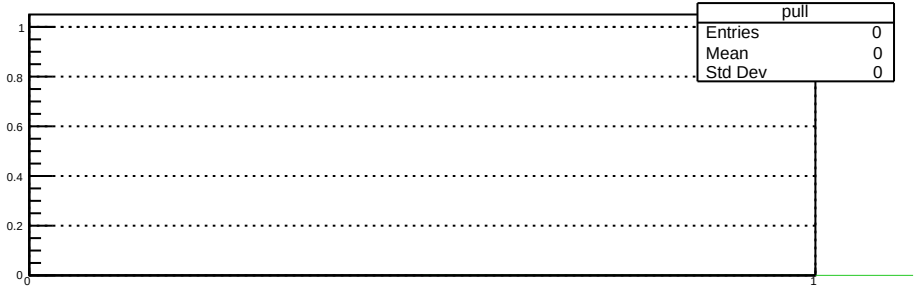
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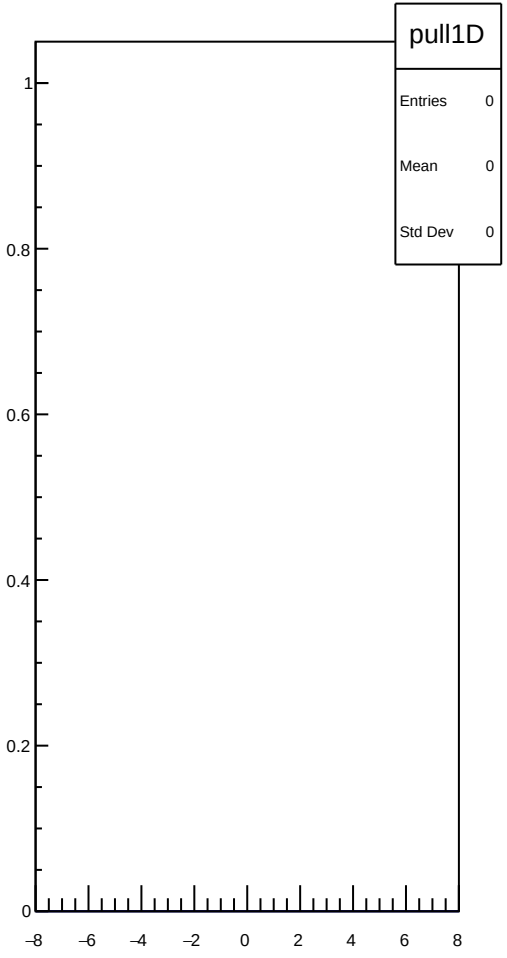
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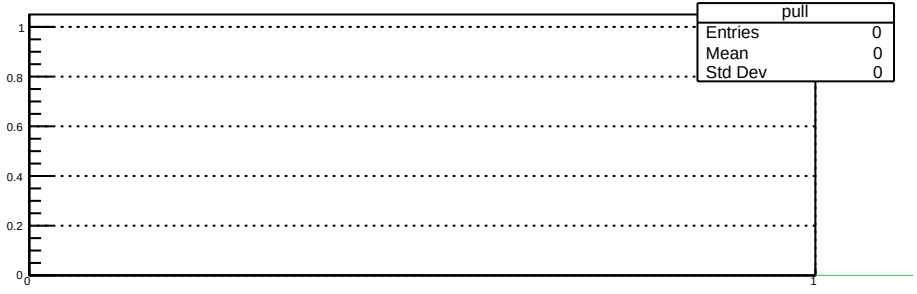
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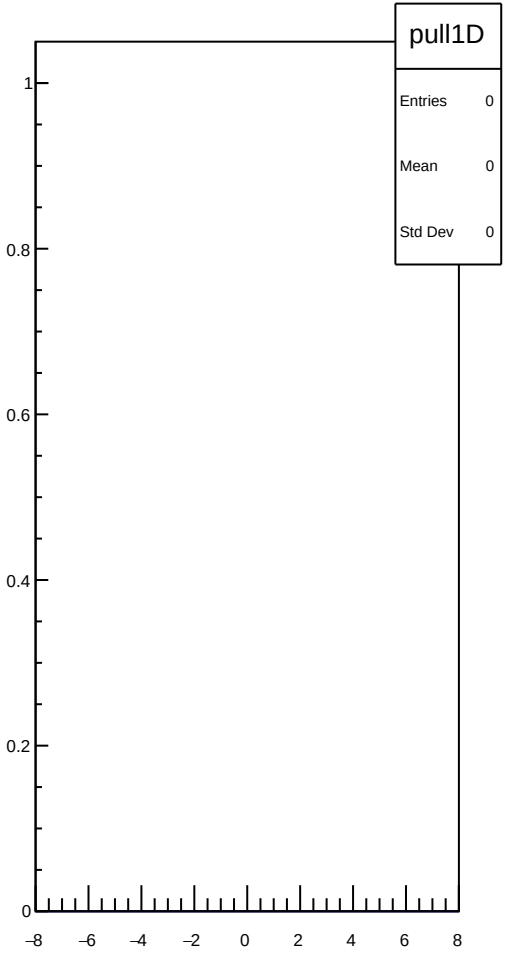
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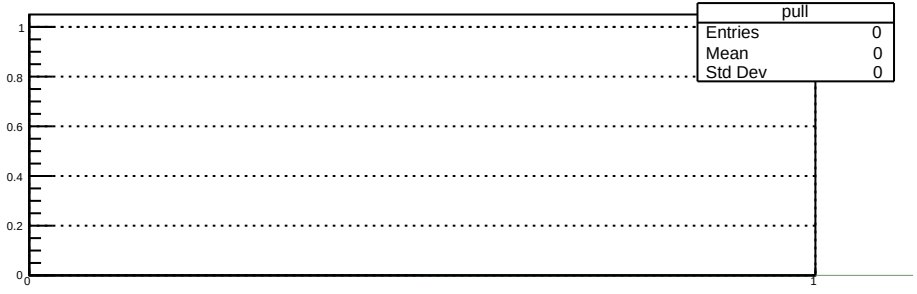
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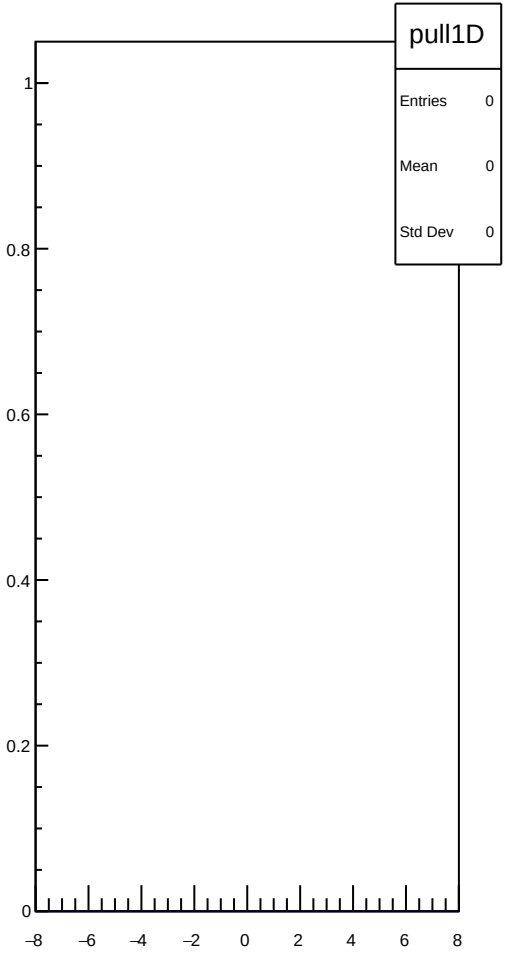
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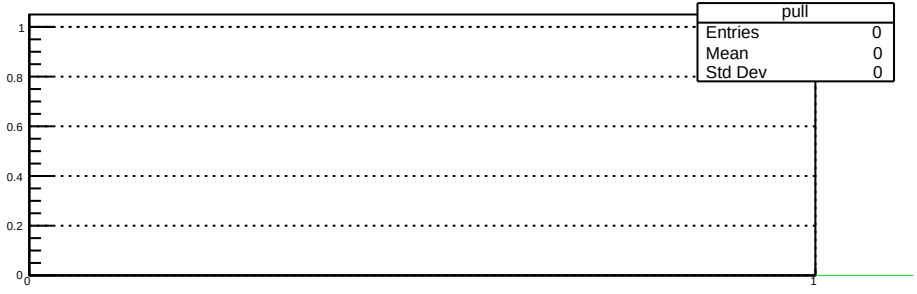
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0.6
0.4
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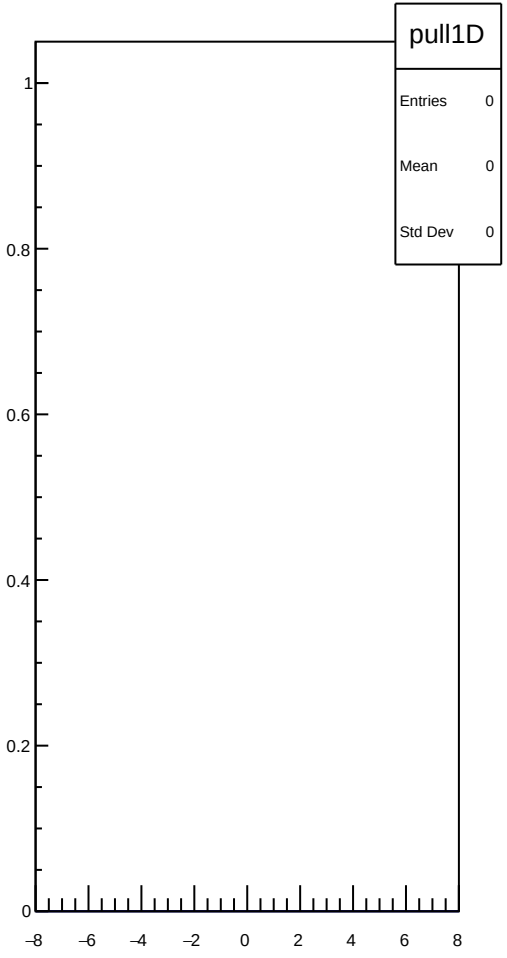
0
1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Entries 0
Mean 0
Std Dev 0
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0.4
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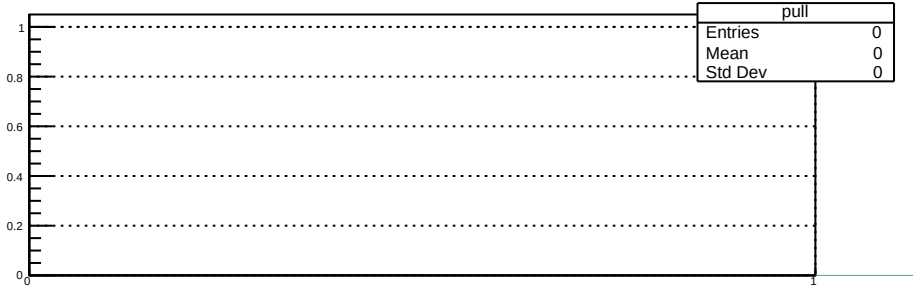
pull
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Mean 0
Std Dev 0
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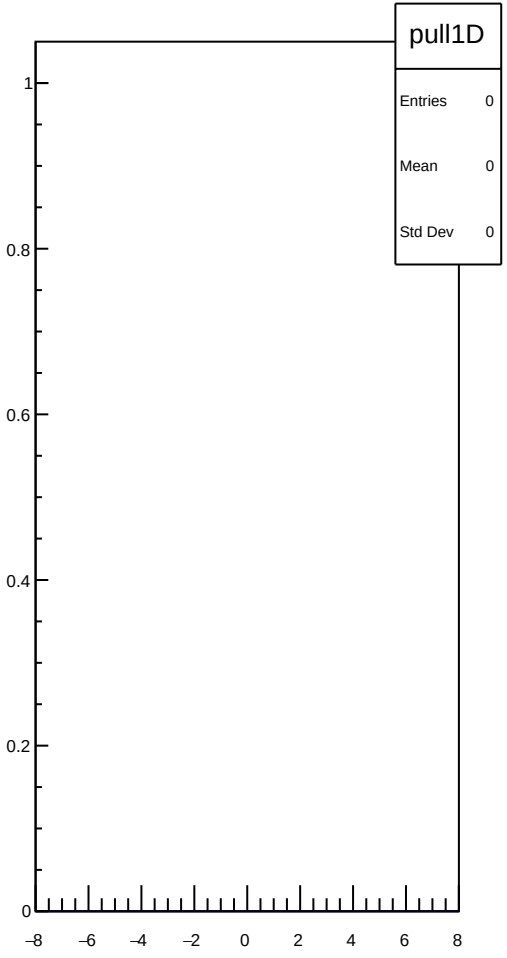
pull1D
Entries 0
Mean 0
Std Dev 0
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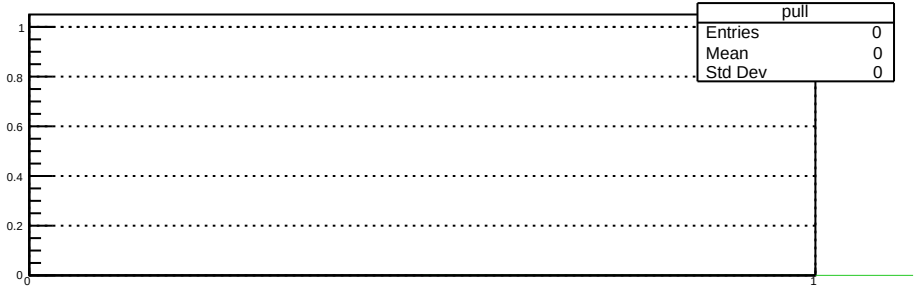
pull
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Mean 0
Std Dev 0
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0.6
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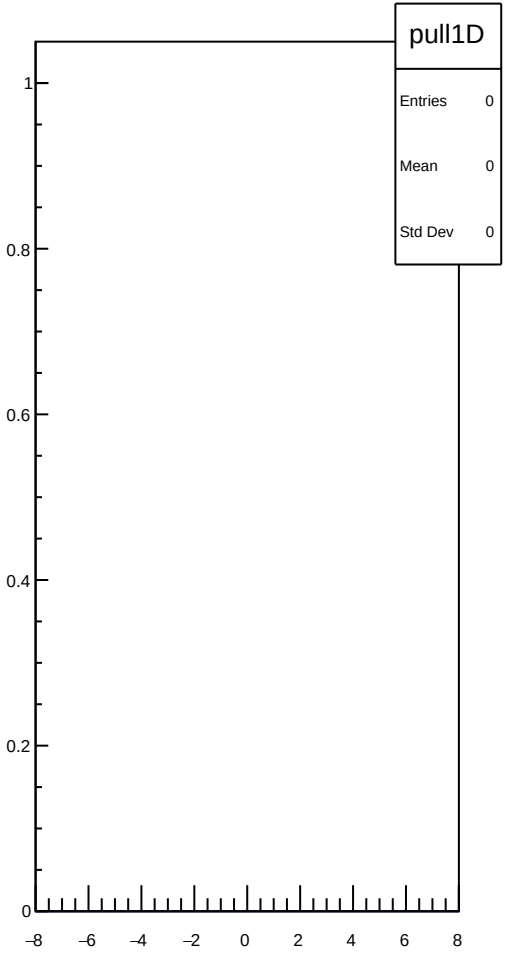
pull1D
Entries 0
Mean 0
Std Dev 0
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0.6
0.4
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6
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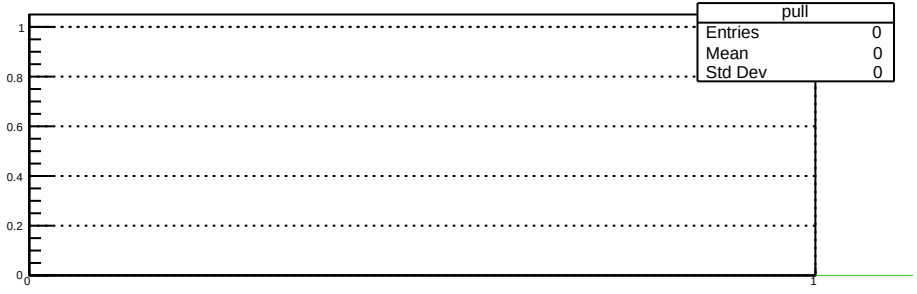
pull
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Mean 0
Std Dev 0
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0.6
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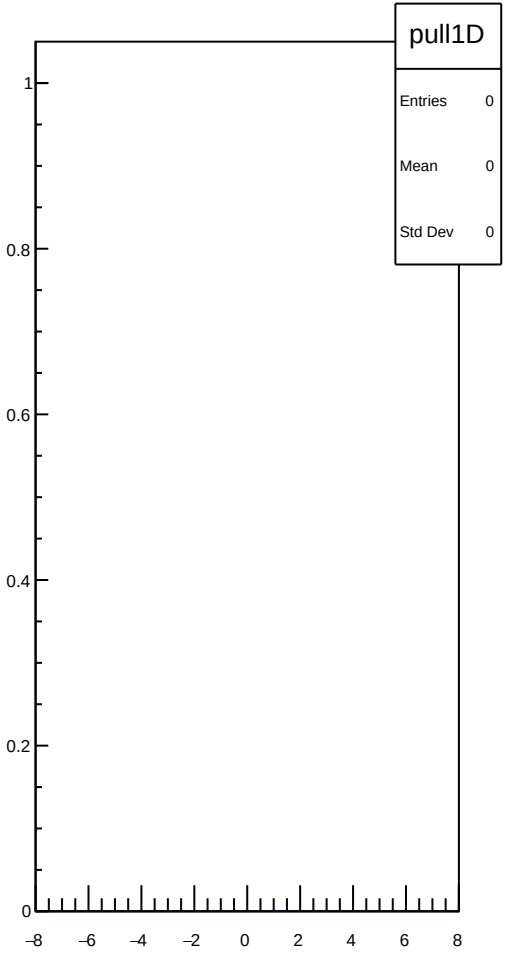
pull1D
Entries 0
Mean 0
Std Dev 0
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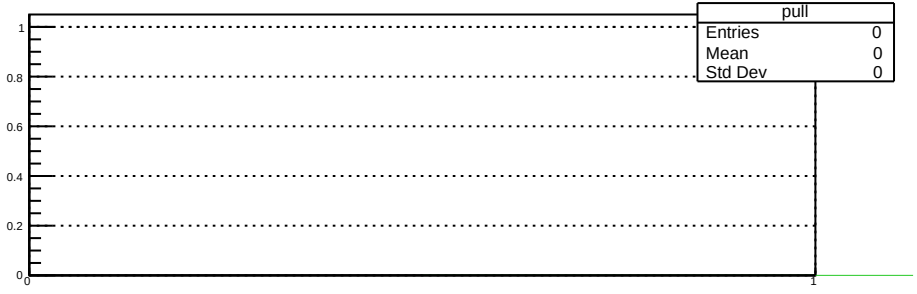
pull
Entries 0
Mean 0
Std Dev 0
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0.6
0.4
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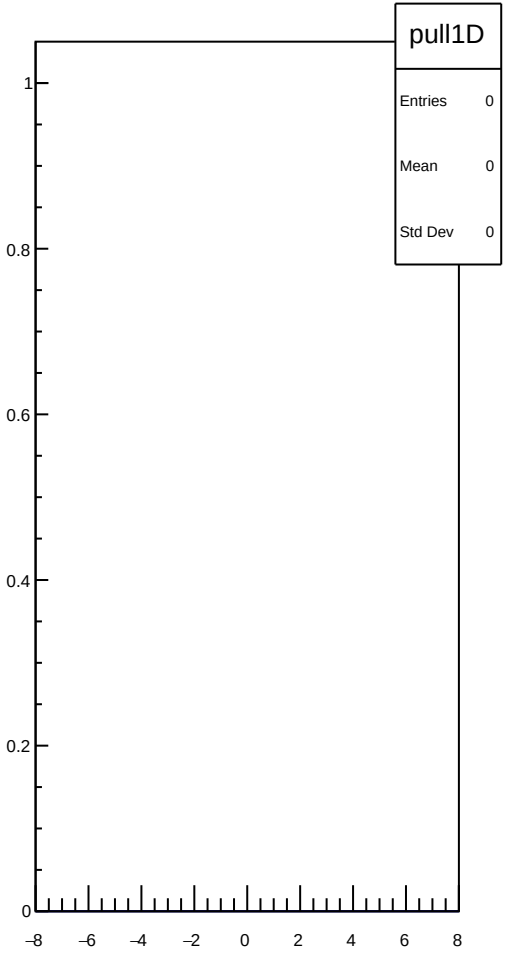
0
1


pull1D
Entries 0
Mean 0
Std Dev 0
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0.4
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6
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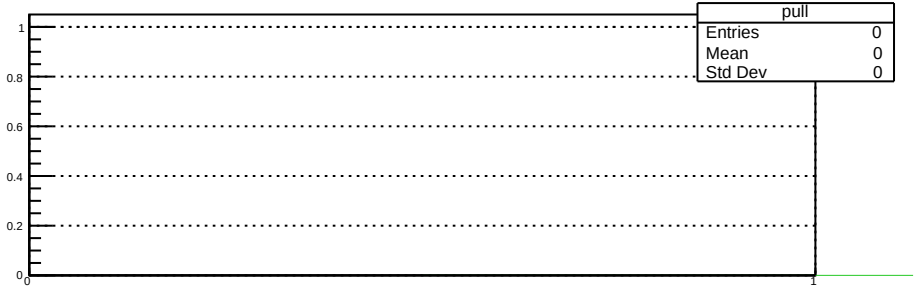
pull
Entries 0
Mean 0
Std Dev 0
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0.6
0.4
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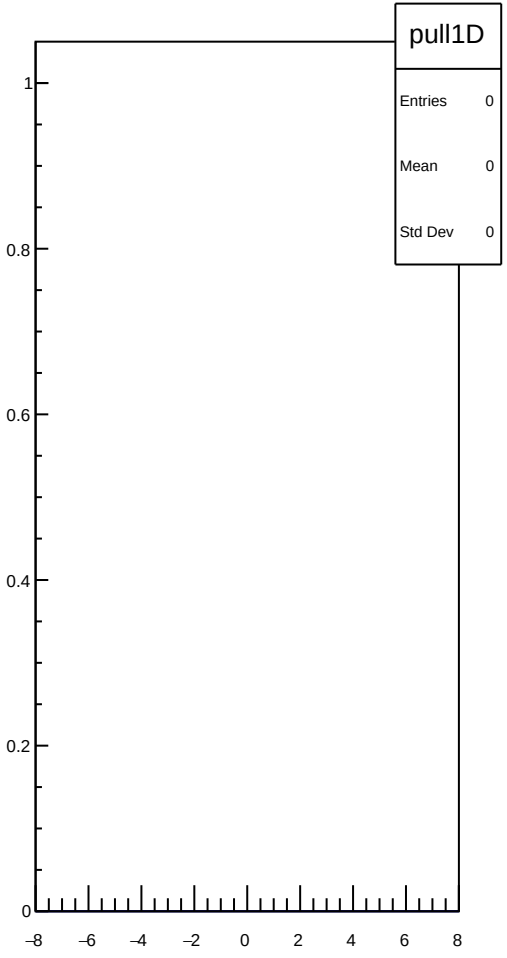
pull1D
Entries 0
Mean 0
Std Dev 0
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0.4
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2
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6
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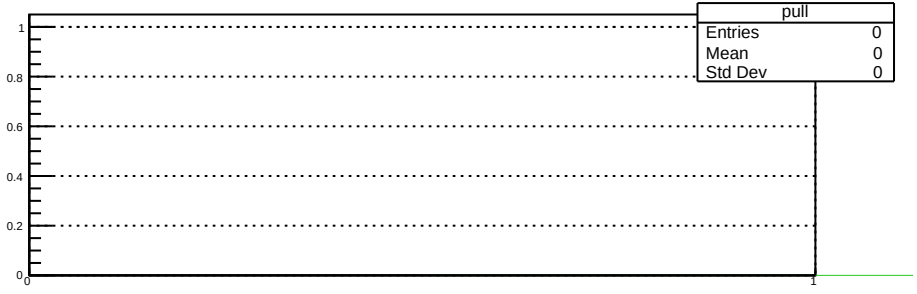
pull
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Mean 0
Std Dev 0
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0.6
0.4
0.2
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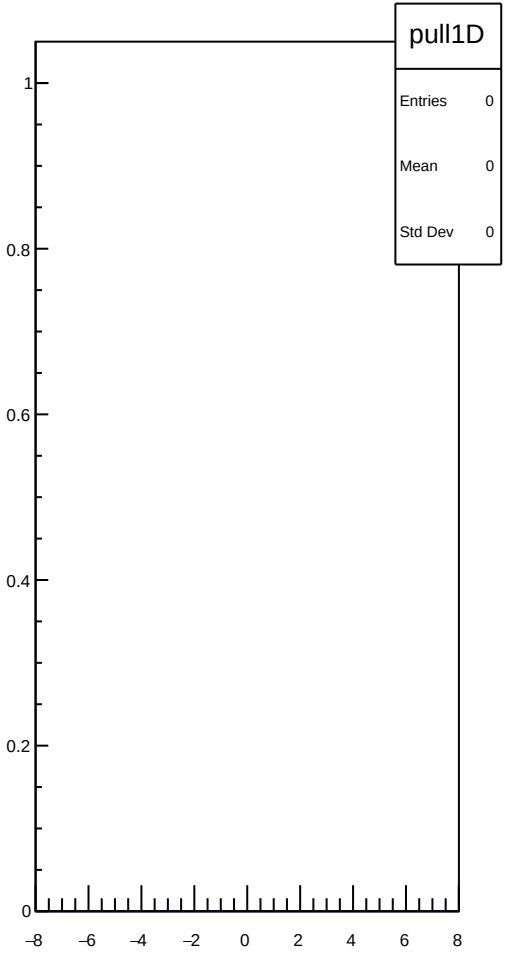
0
1


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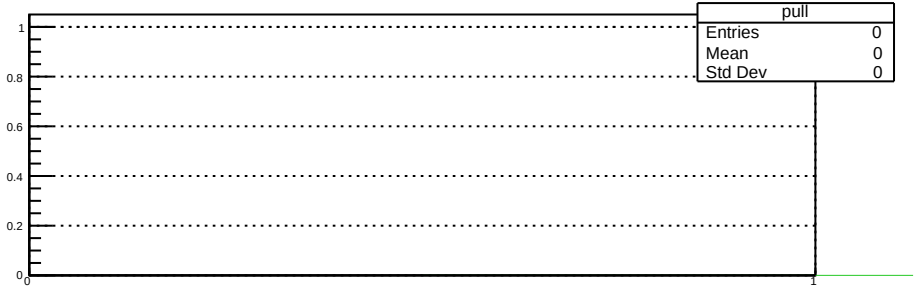
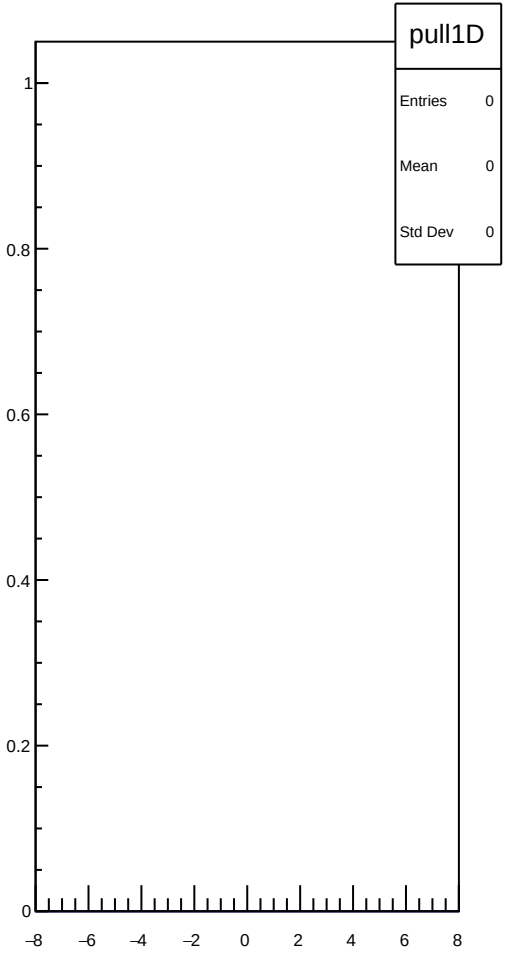
2
4
6
8


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
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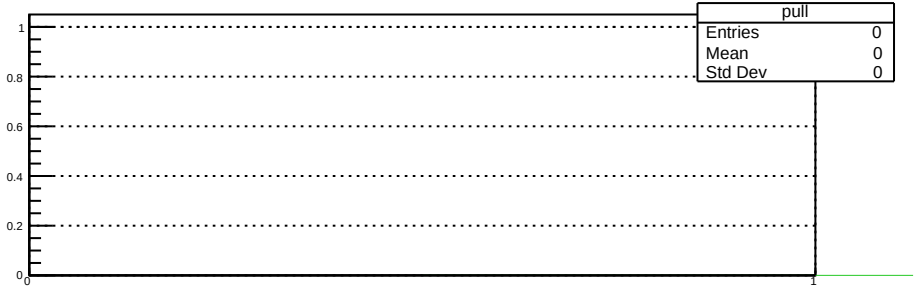
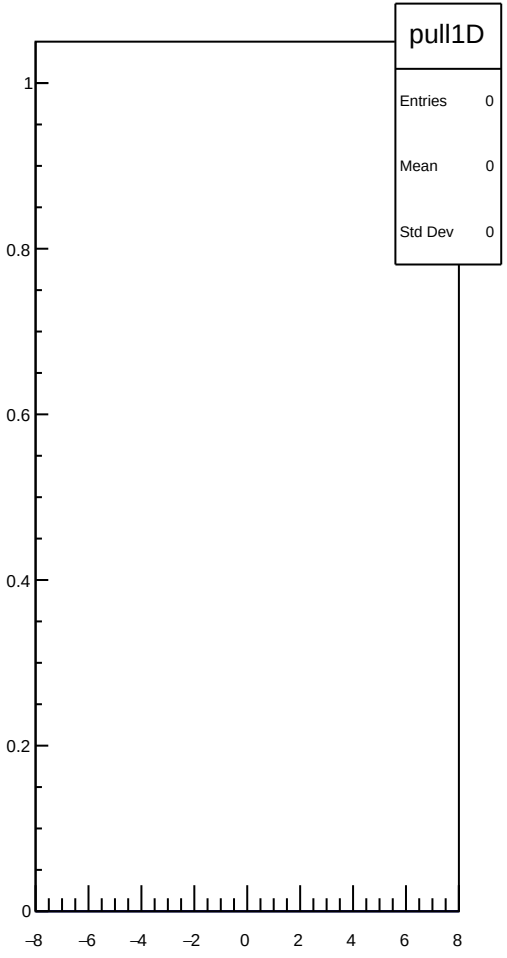
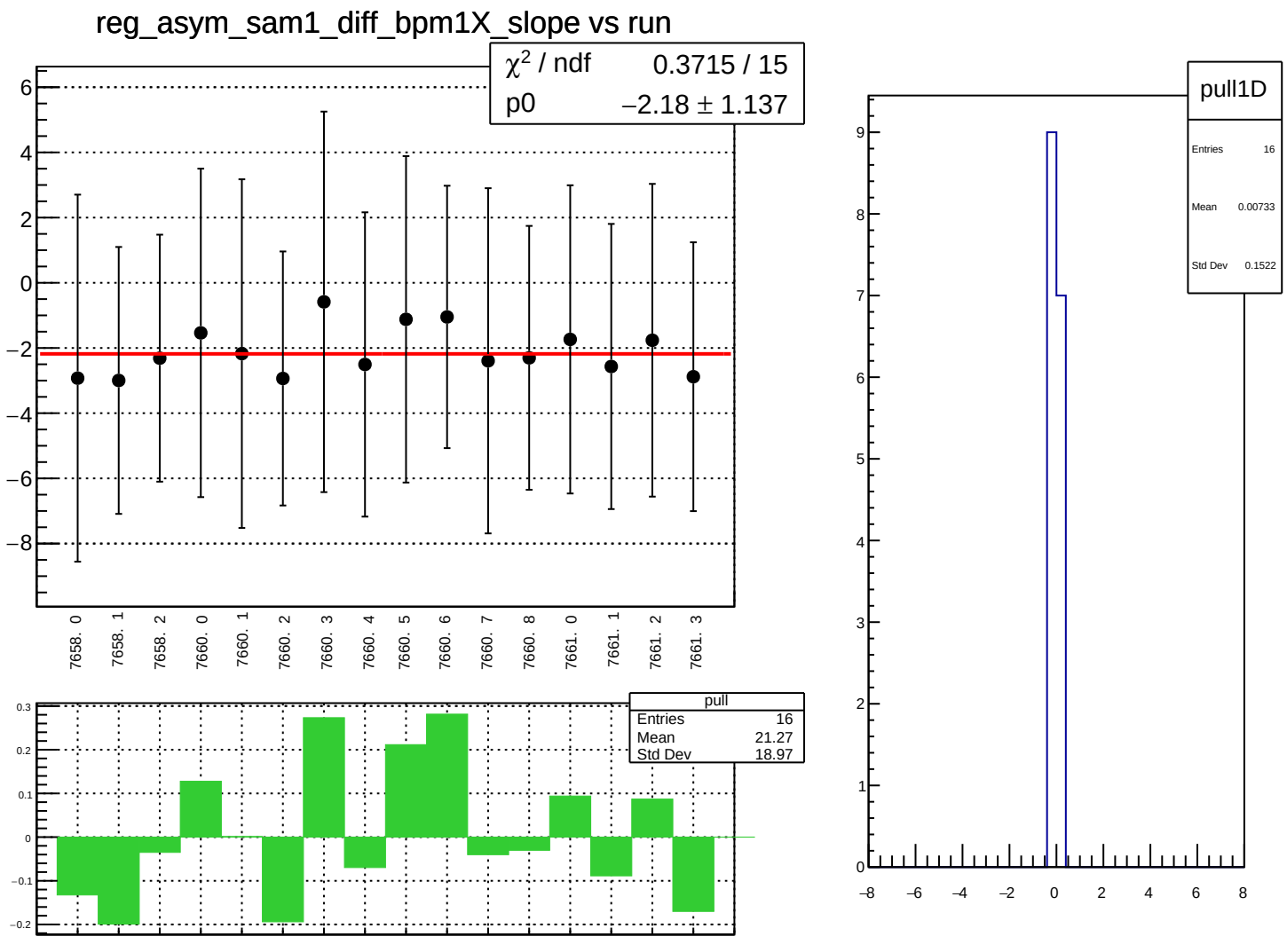
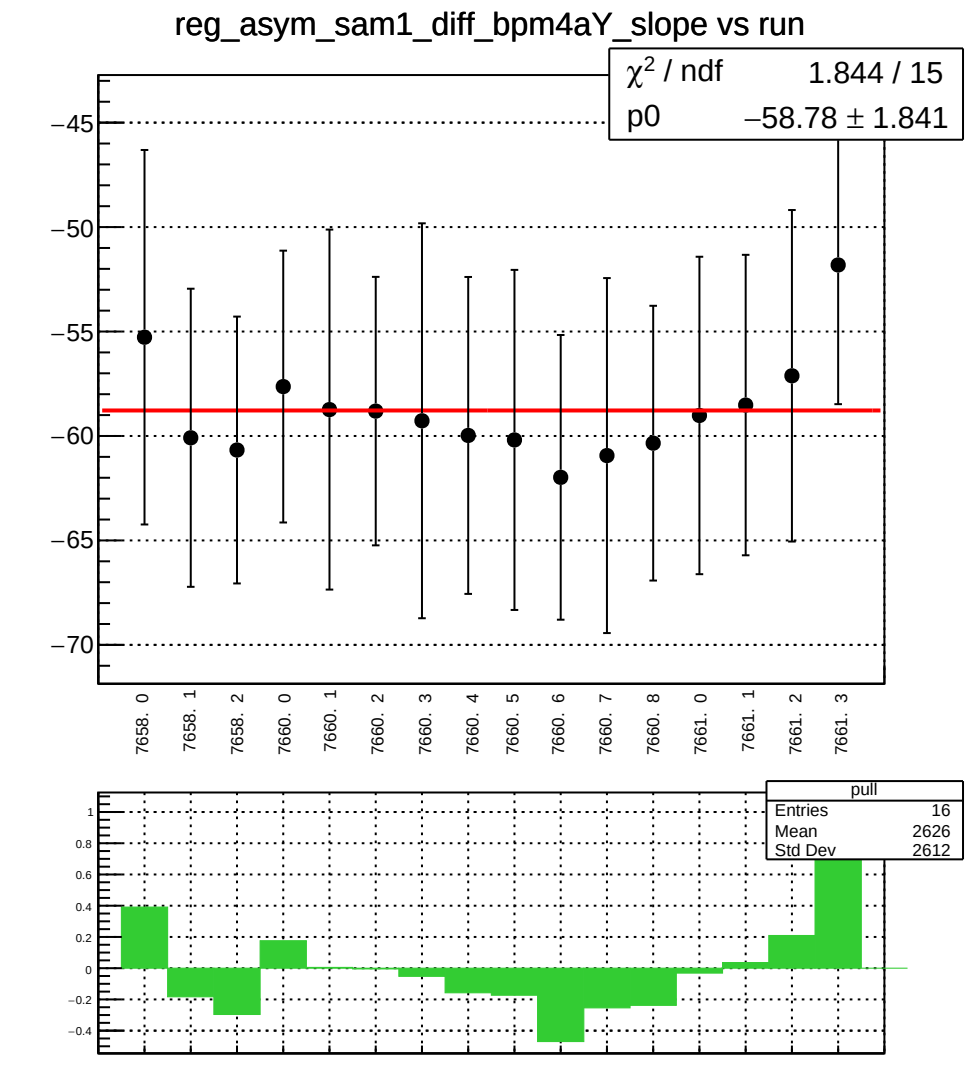
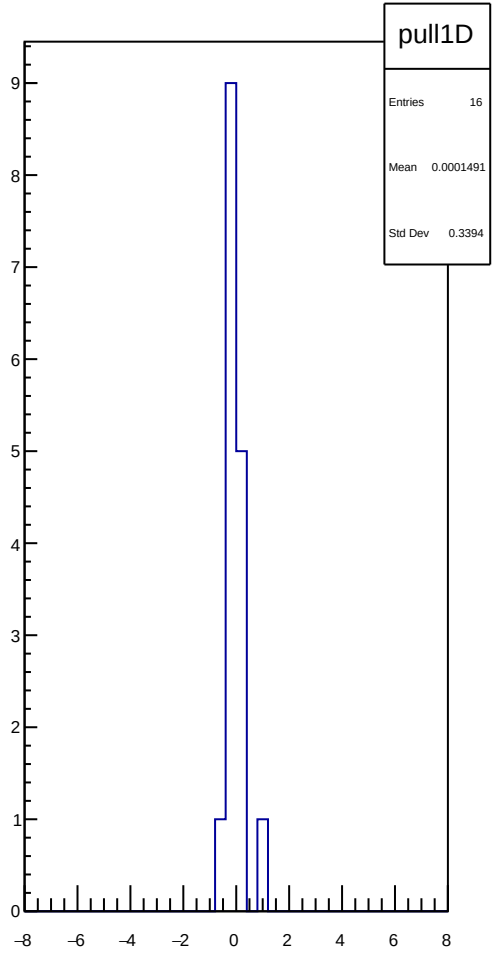
2
4
6
8

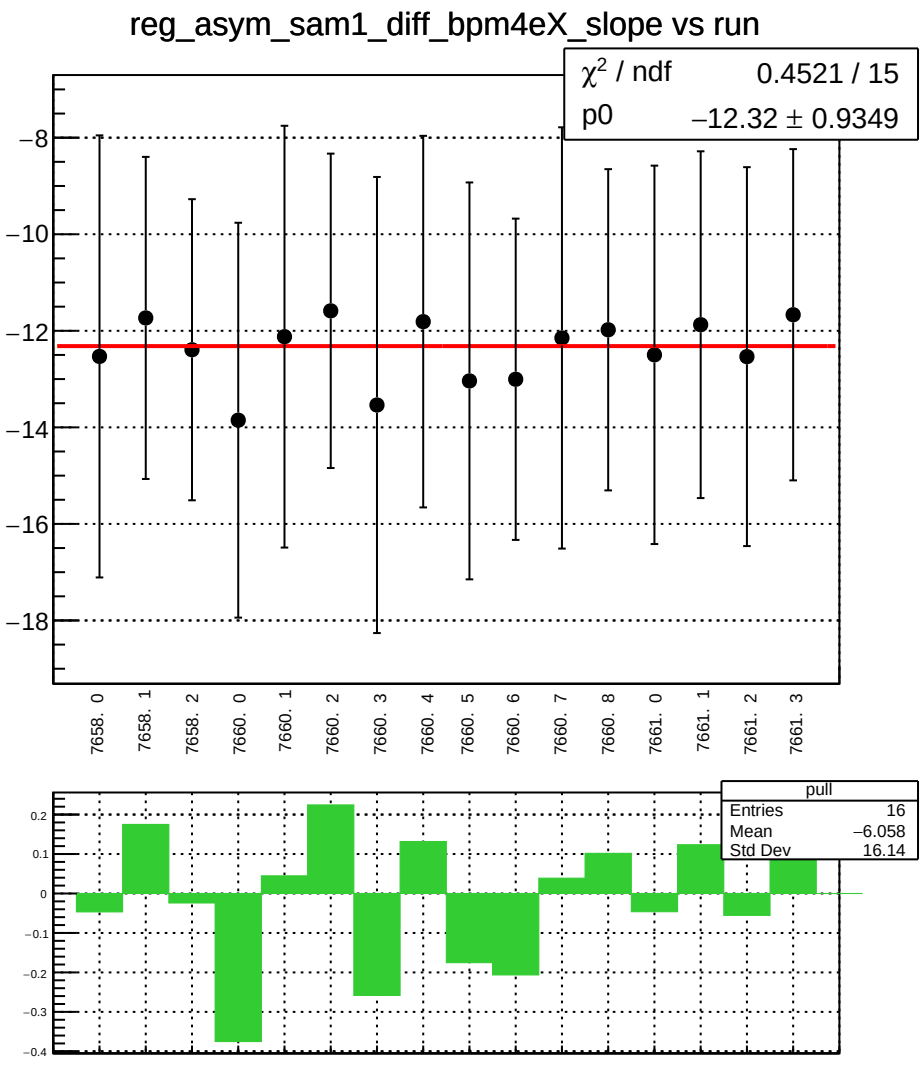

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

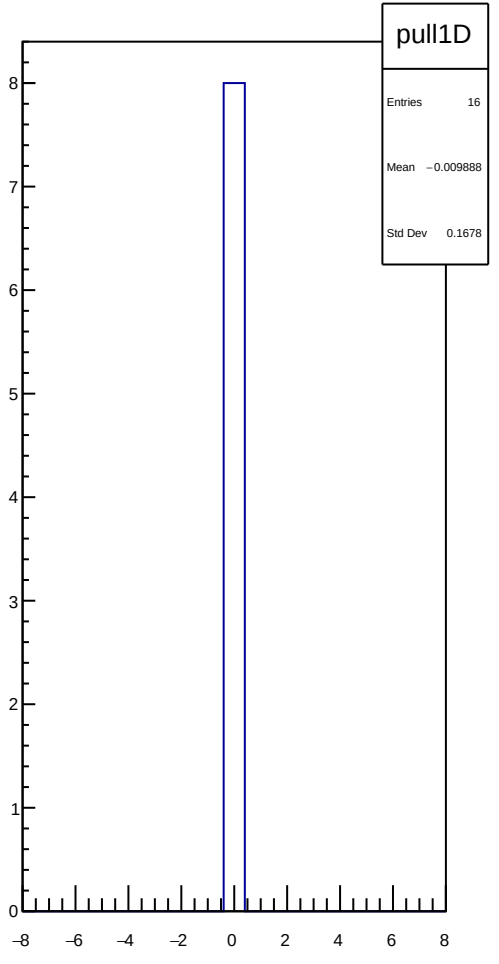

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

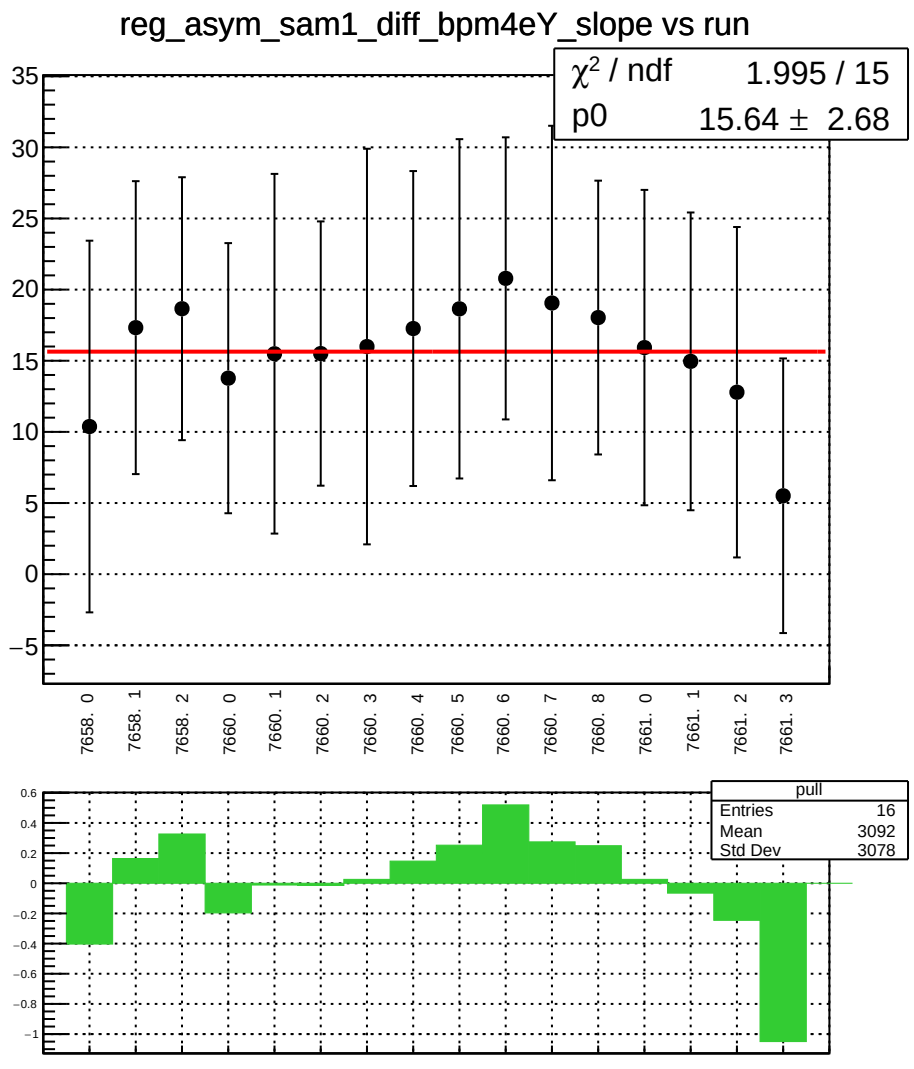

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 0.3715 / 15
p0 −2.18 ± 1.137
6
4
2
0
−2
−4
−6
−8
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 21.27
Std Dev 18.97
0.3
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 16
Mean 0.00733
Std Dev 0.1522
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

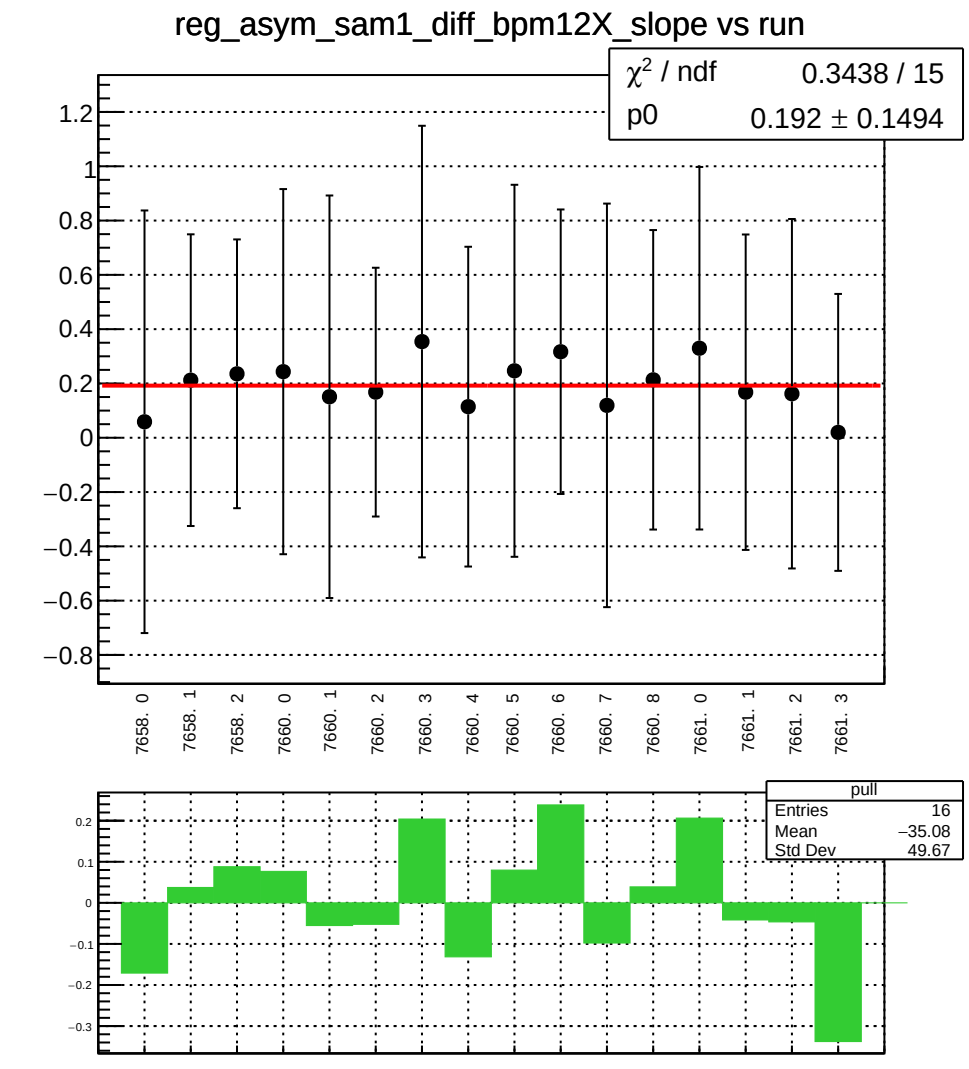

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 1.844 / 15
p0 −58.78 ± 1.841
−45
−50
−55
−60
−65
−70
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 2626
Std Dev 2612
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4

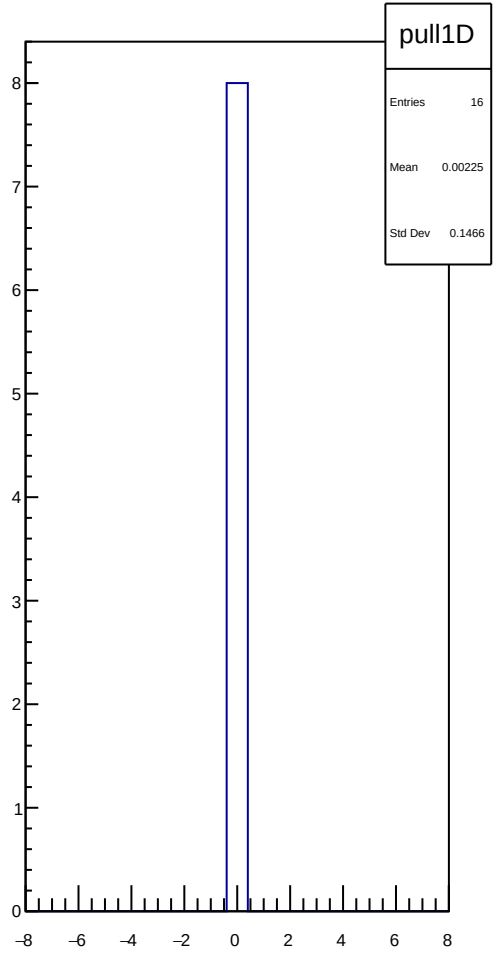

pull1D
Entries 16
Mean 0.0001491
Std Dev 0.3394
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

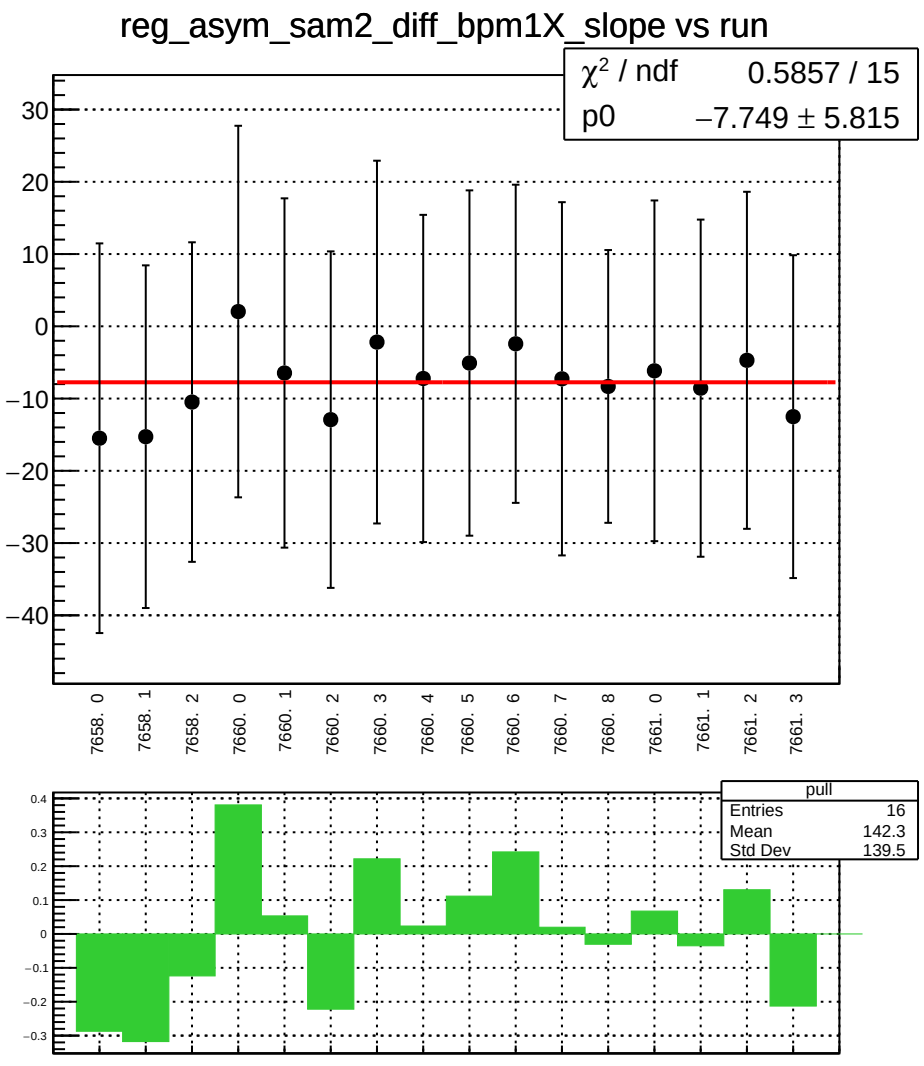

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 0.4521 / 15
p0 −12.32 ± 0.9349
−8
−10
−12
−14
−16
−18
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −6.058
Std Dev 16.14
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

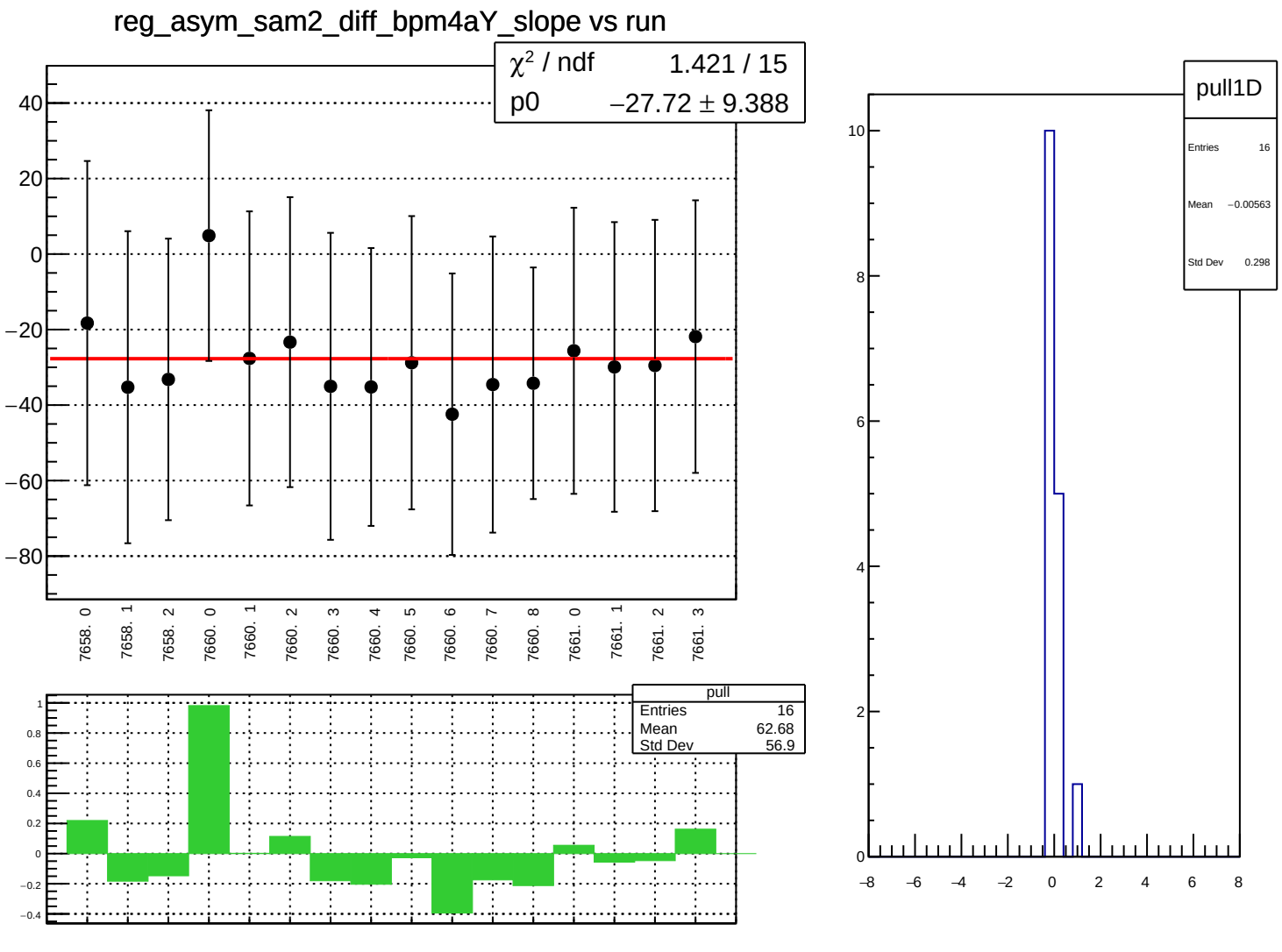

pull1D
Entries 16
Mean −0.009888
Std Dev 0.1678
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

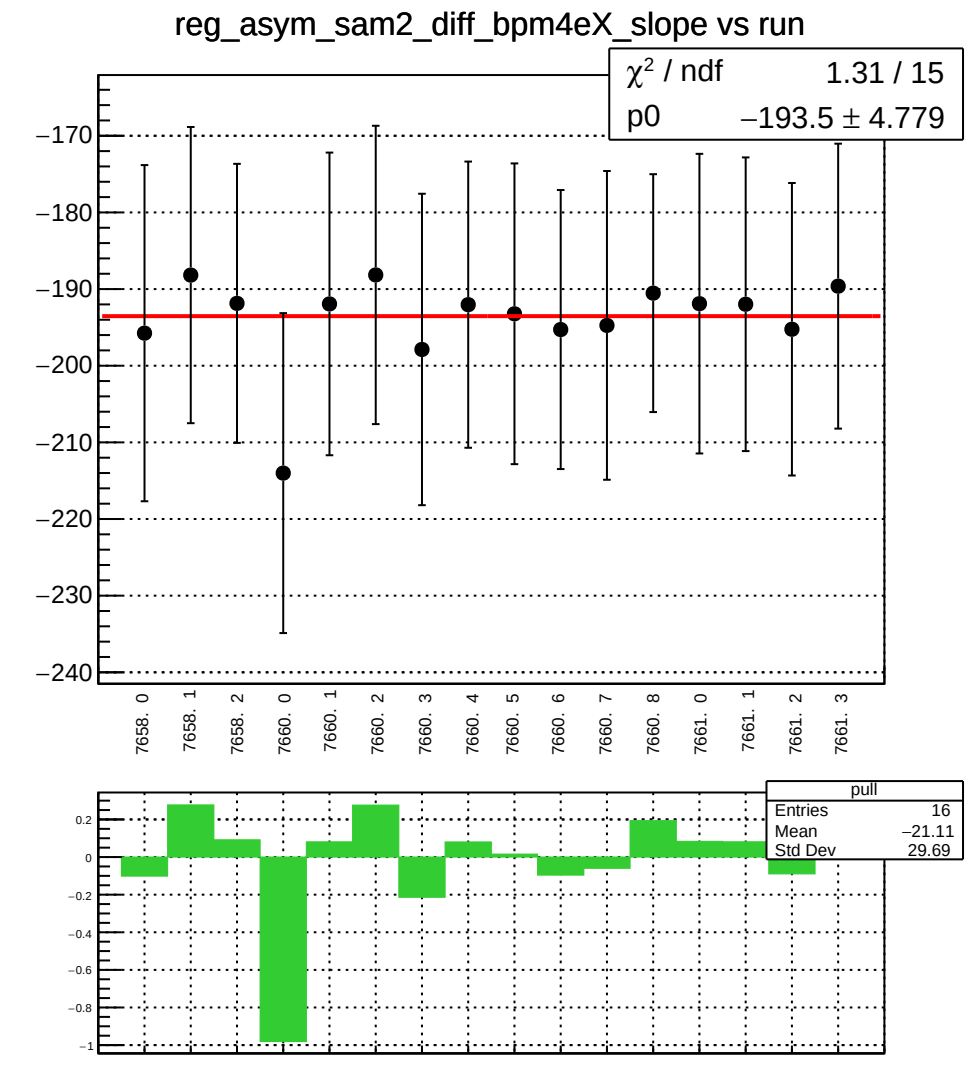

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 1.995 / 15
p0 15.64 ± 2.68
35
30
25
20
15
10
5
0
−5
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 3092
Std Dev 3078
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 16
Mean −0.0001265
Std Dev 0.3531
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

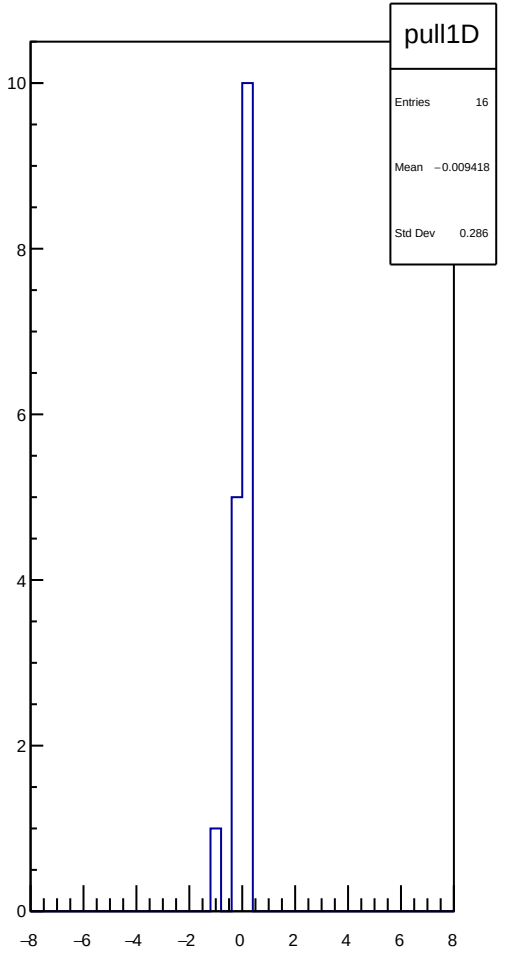

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 0.3438 / 15
p0 0.192 ± 0.1494
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −35.08
Std Dev 49.67
0.2
0.1
0
−0.1
−0.2
−0.3

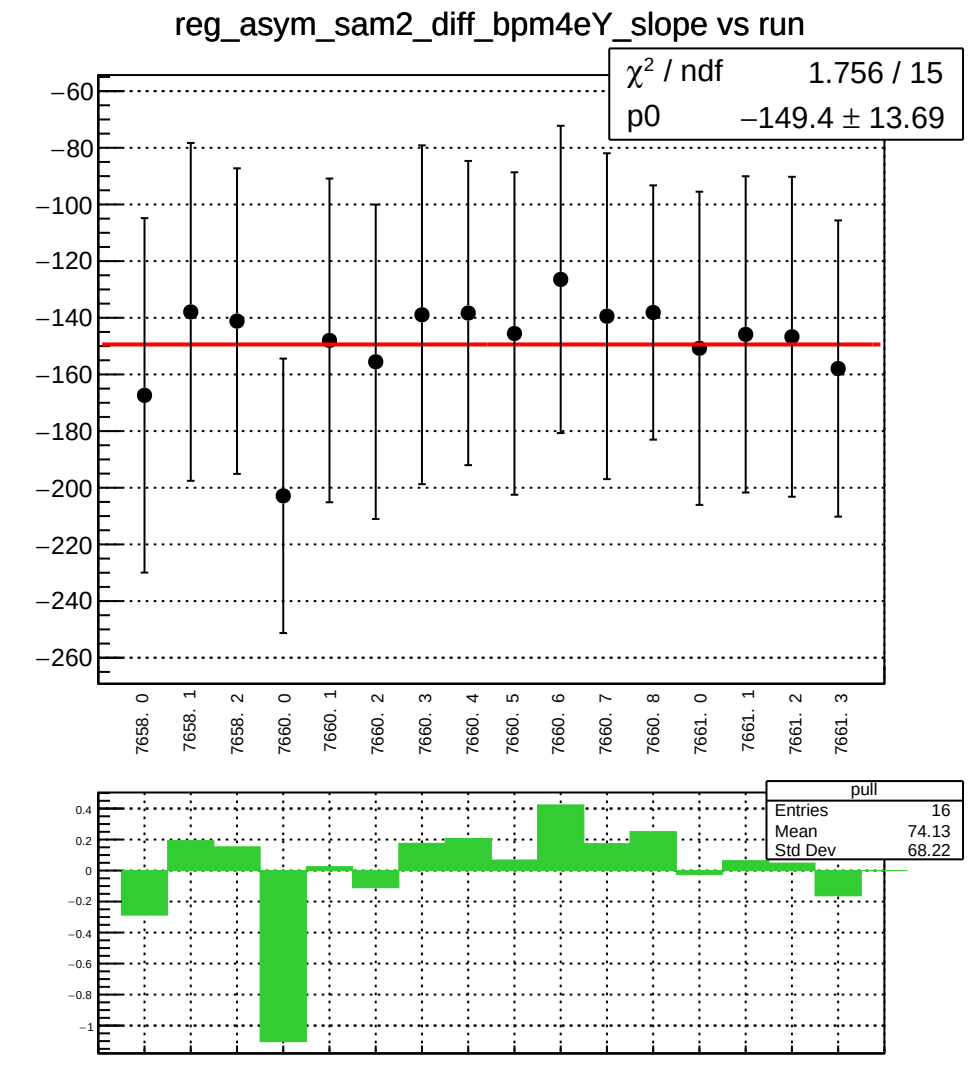

pull1D
Entries 16
Mean 0.00225
Std Dev 0.1466
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

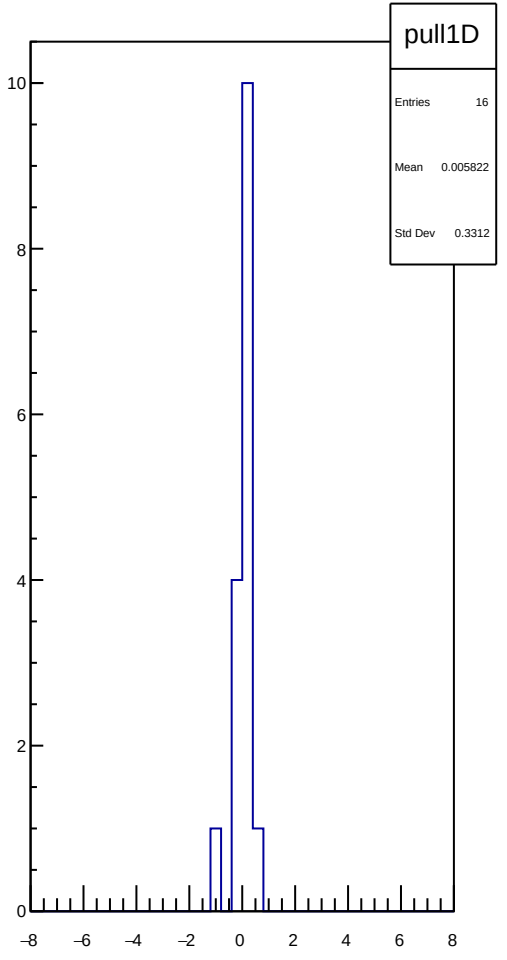

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 0.5857 / 15
p0 −7.749 ± 5.815
30
20
10
0
−10
−20
−30
−40
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 142.3
Std Dev 139.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 16
Mean 0.001366
Std Dev 0.1913
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

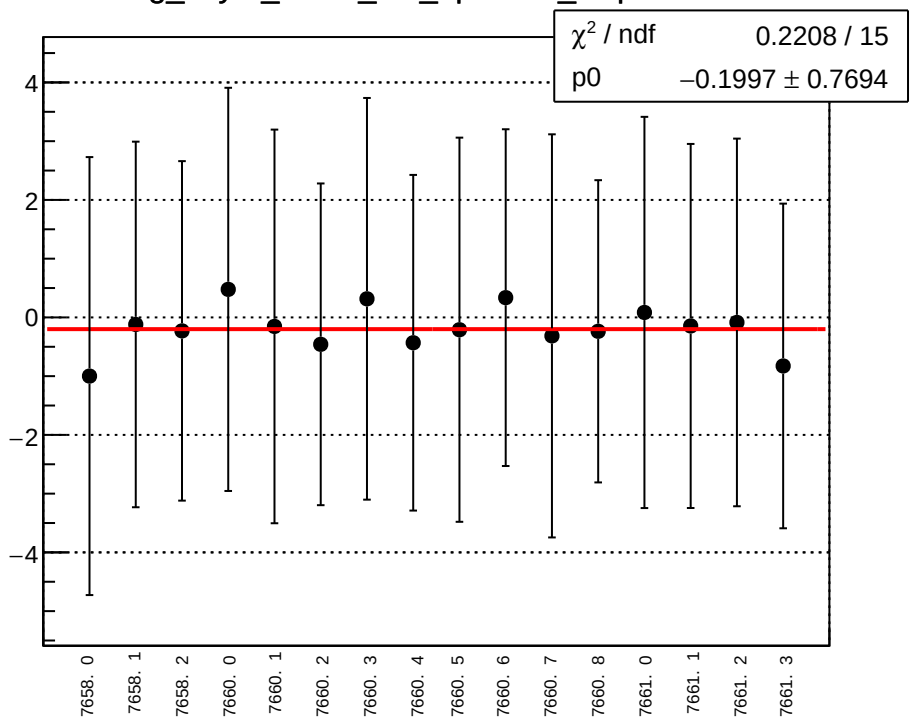

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 1.421 / 15
p0 −27.72 ± 9.388
40
20
0
−20
−40
−60
−80
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 62.68
Std Dev 56.9
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 16
Mean −0.00563
Std Dev 0.298
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

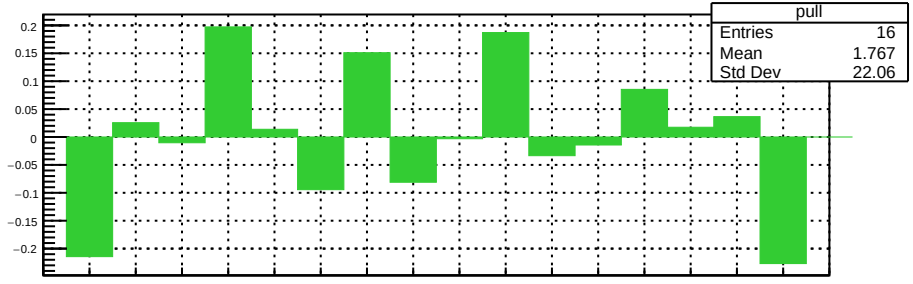

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 1.31 / 15
p0 −193.5 ± 4.779
−170
−180
−190
−200
−210
−220
−230
−240
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −21.11
Std Dev 29.69
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

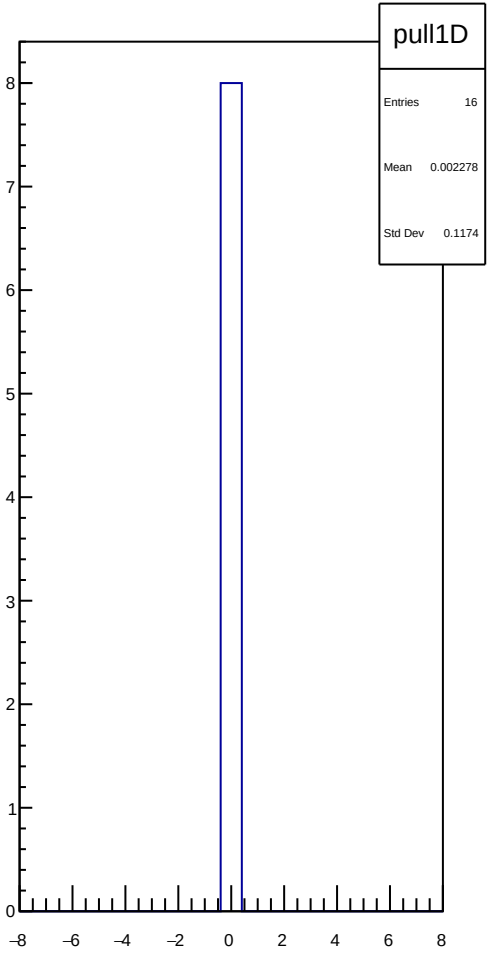

pull1D
Entries 16
Mean −0.009418
Std Dev 0.286
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

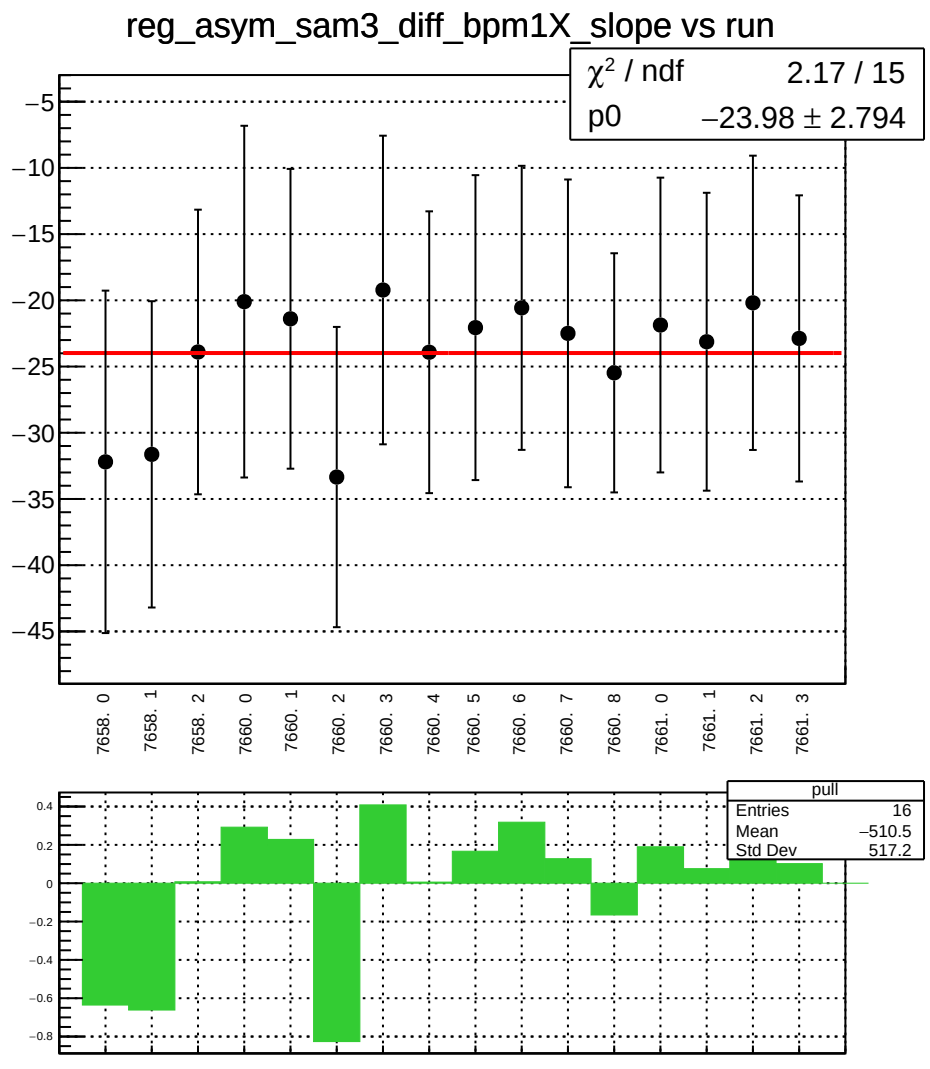

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 1.756 / 15
p0 −149.4 ± 13.69
−60
−80
−100
−120
−140
−160
−180
−200
−220
−240
−260
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 74.13
Std Dev 68.22
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

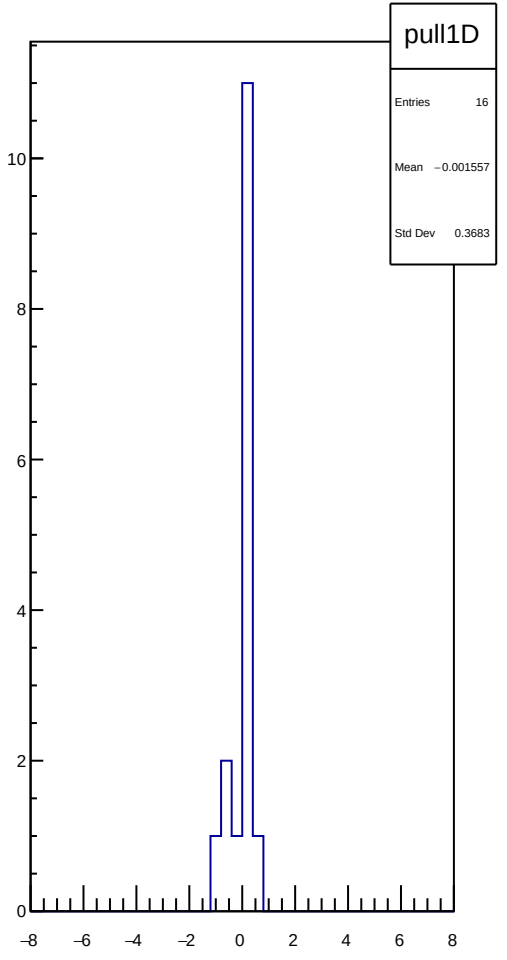

pull1D
Entries 16
Mean 0.005822
Std Dev 0.3312
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

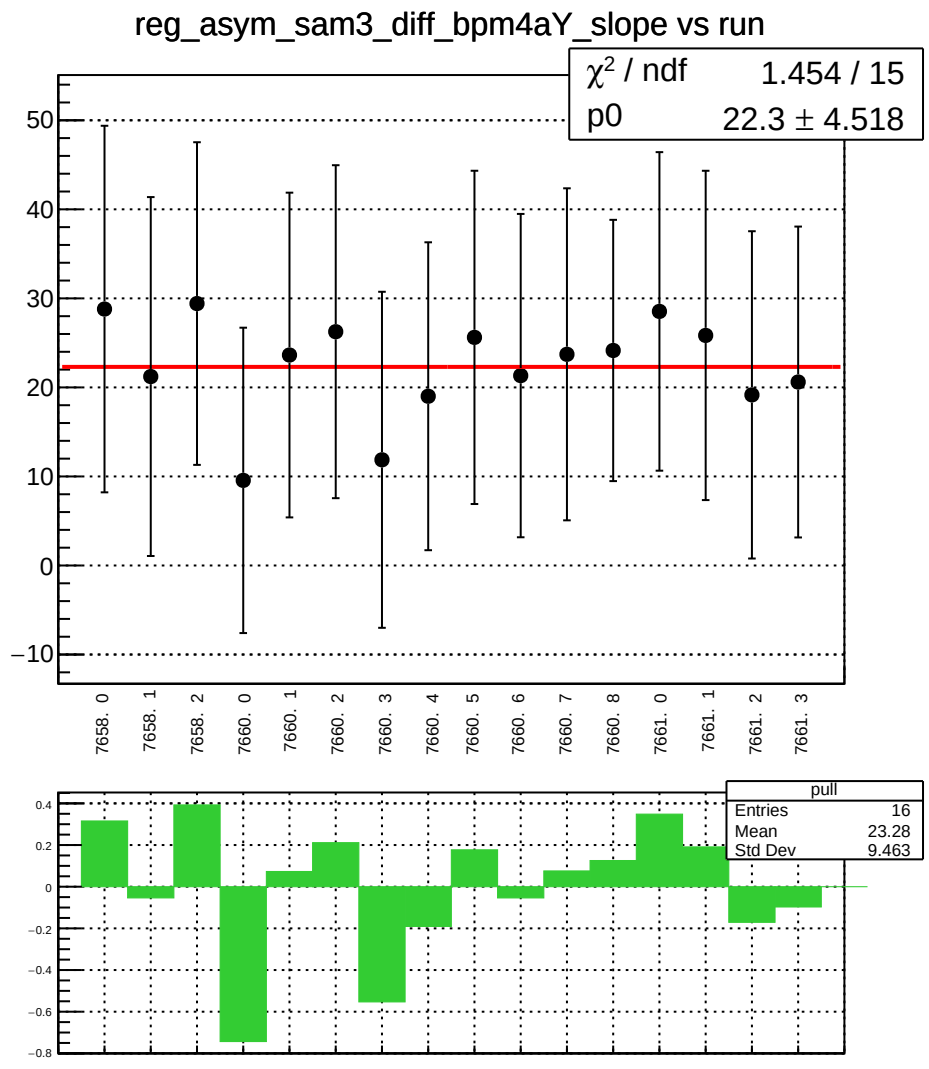

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 0.2208 / 15
p0 −0.1997 ± 0.7694
4
2
0
−2
−4
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

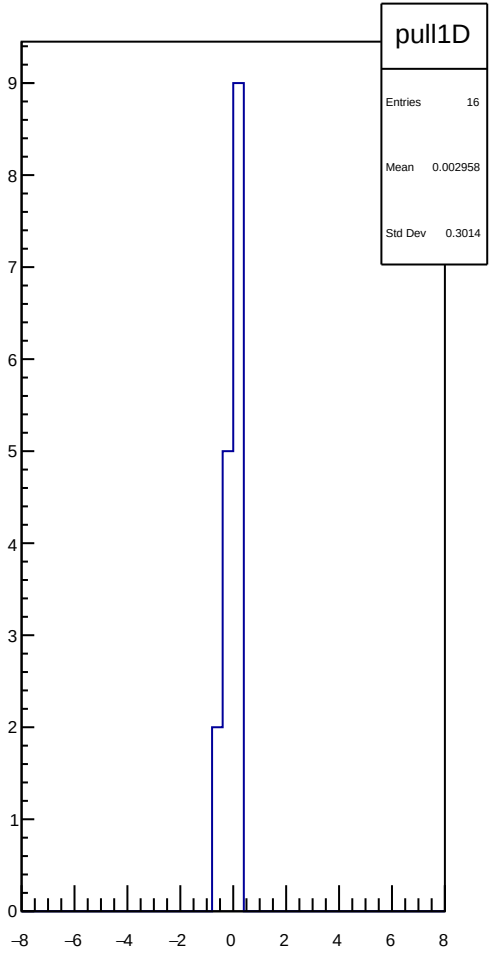

pull
Entries 16
Mean 1.767
Std Dev 22.06
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2

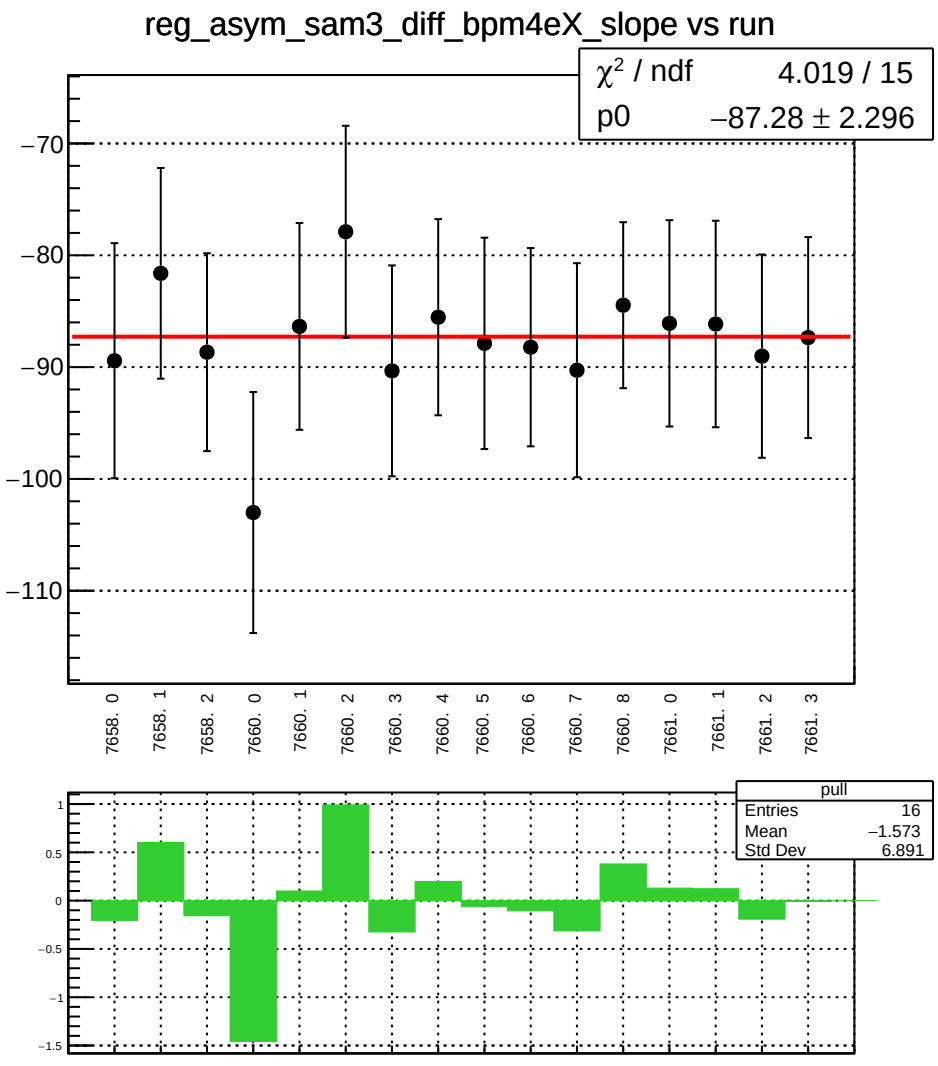

pull1D
Entries 16
Mean 0.002278
Std Dev 0.1174
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

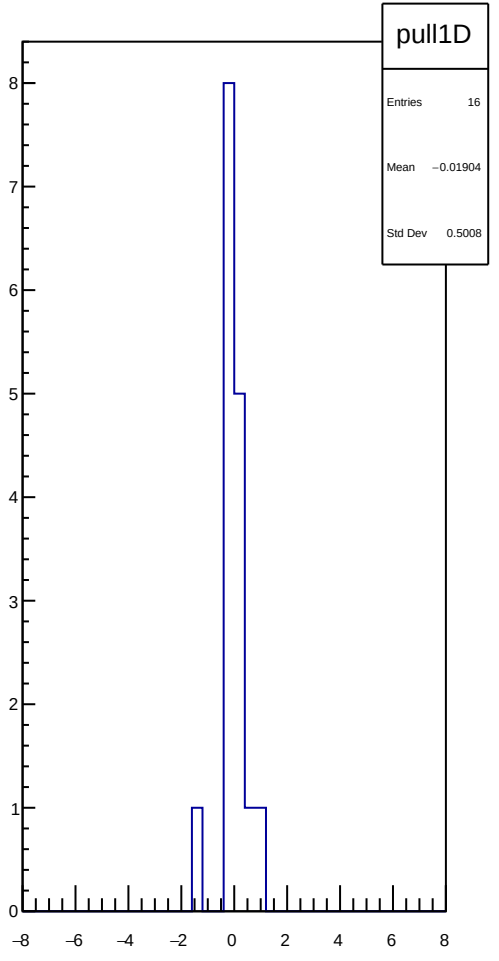

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 2.17 / 15
p0 −23.98 ± 2.794
−5
−10
−15
−20
−25
−30
−35
−40
−45
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −510.5
Std Dev 517.2
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

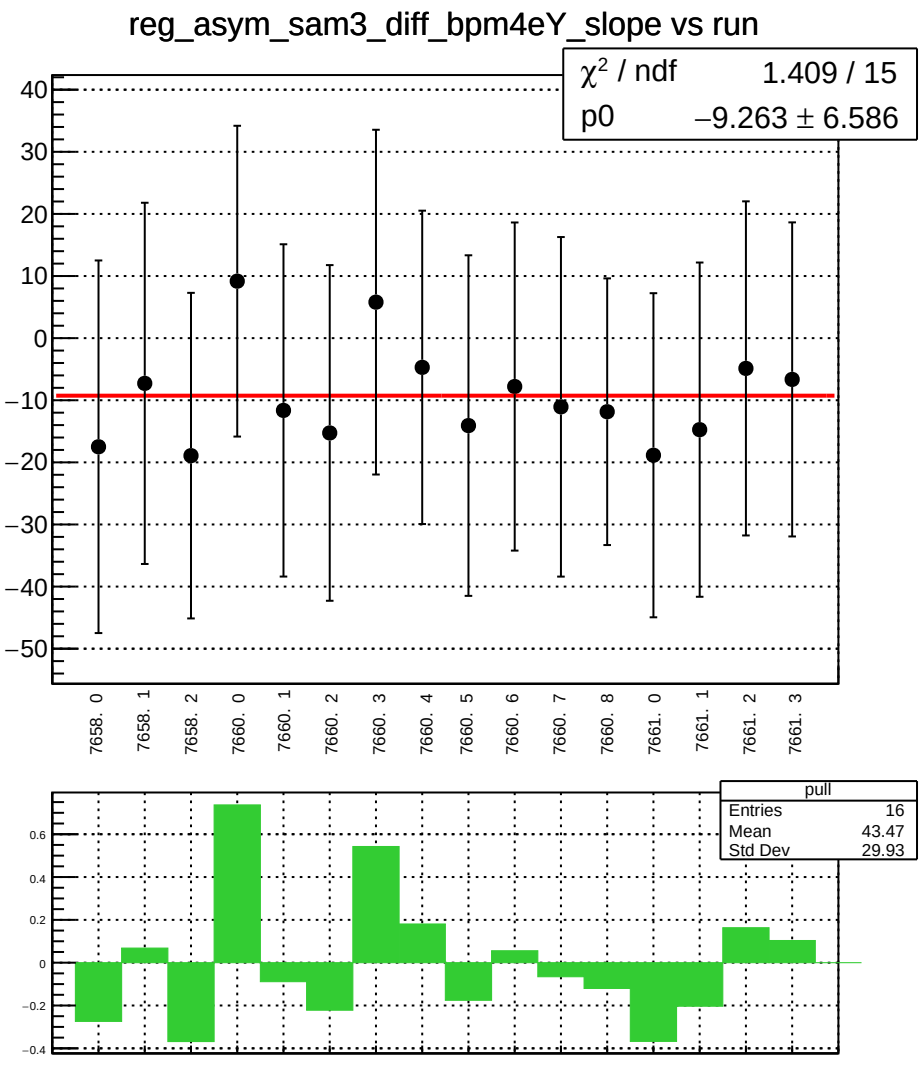

pull1D
Entries 16
Mean −0.001557
Std Dev 0.3683
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

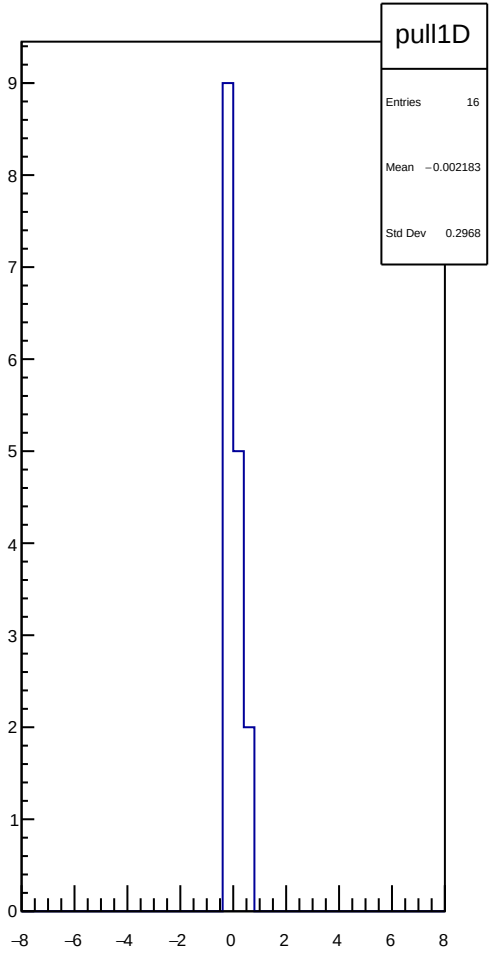

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 1.454 / 15
p0 22.3 ± 4.518
50
40
30
20
10
0
−10
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 23.28
Std Dev 9.463
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

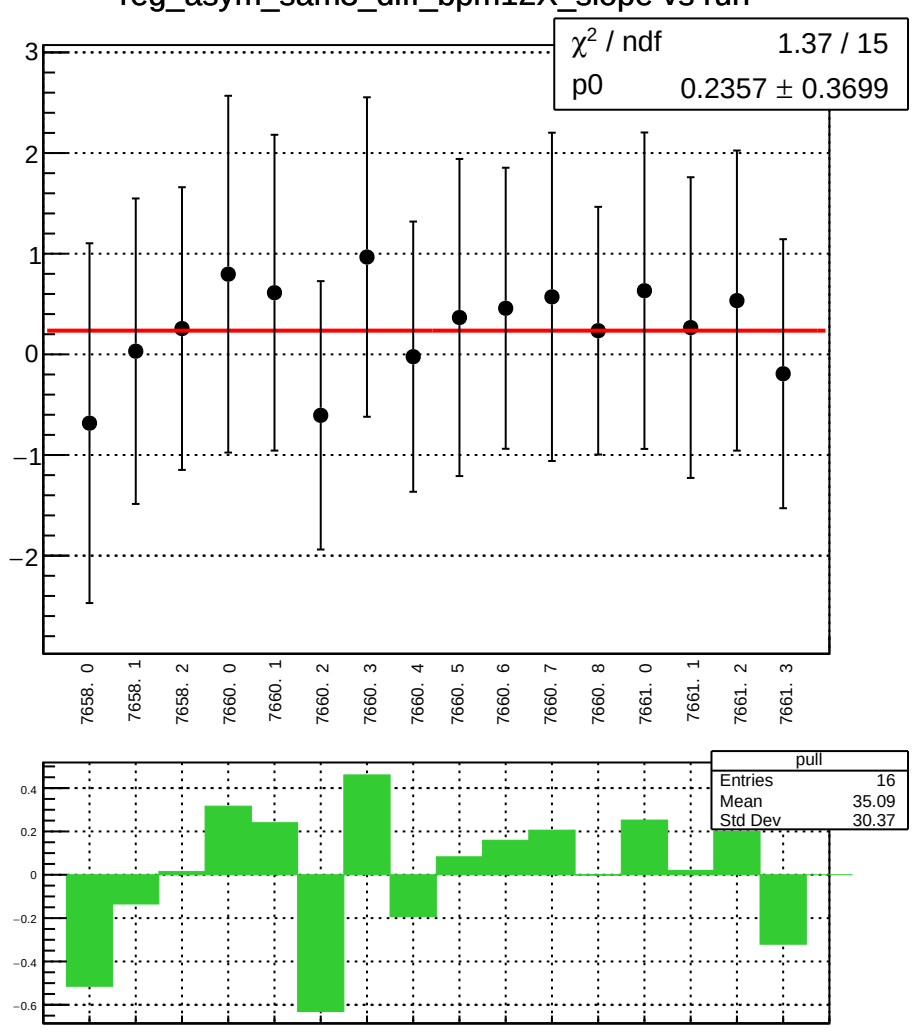

pull1D
Entries 16
Mean 0.002958
Std Dev 0.3014
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

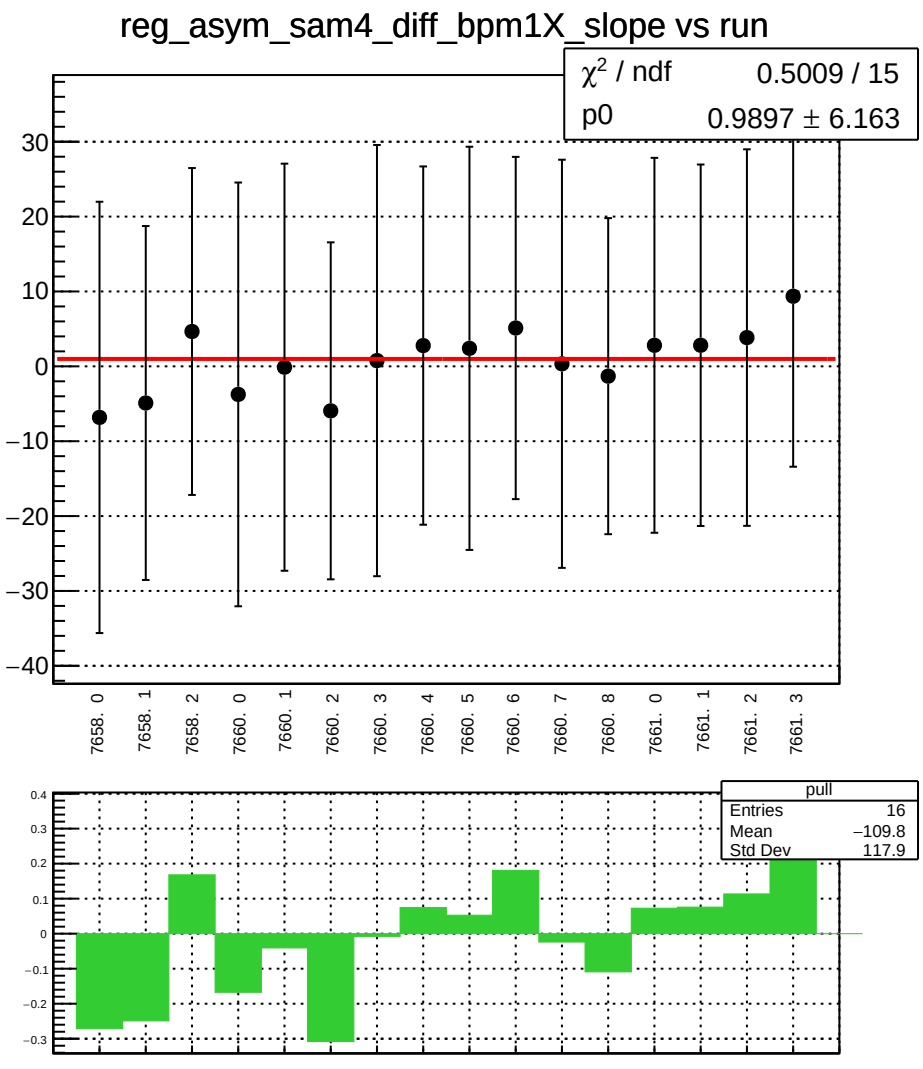

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 4.019 / 15
p0 −87.28 ± 2.296
−70
−80
−90
−100
−110
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −1.573
Std Dev 6.891
1
0.5
0
−0.5
−1
−1.5

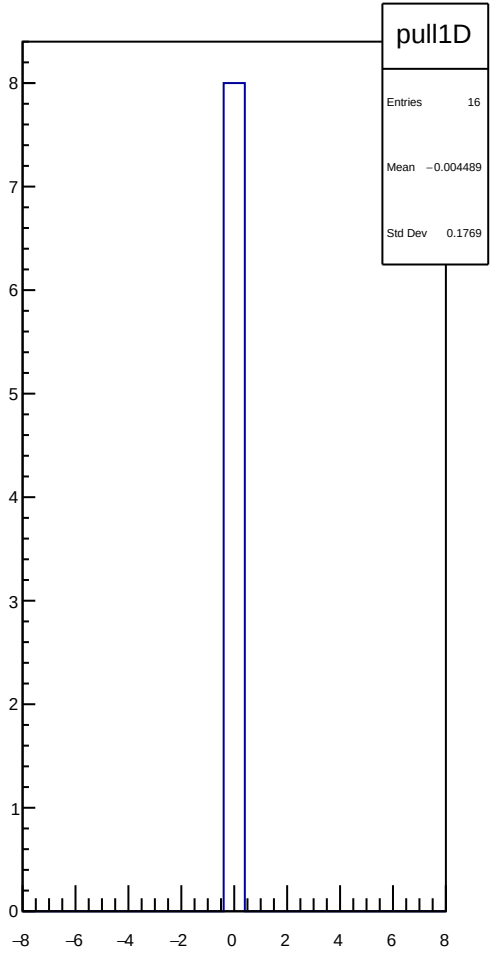

pull1D
Entries 16
Mean −0.01904
Std Dev 0.5008
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

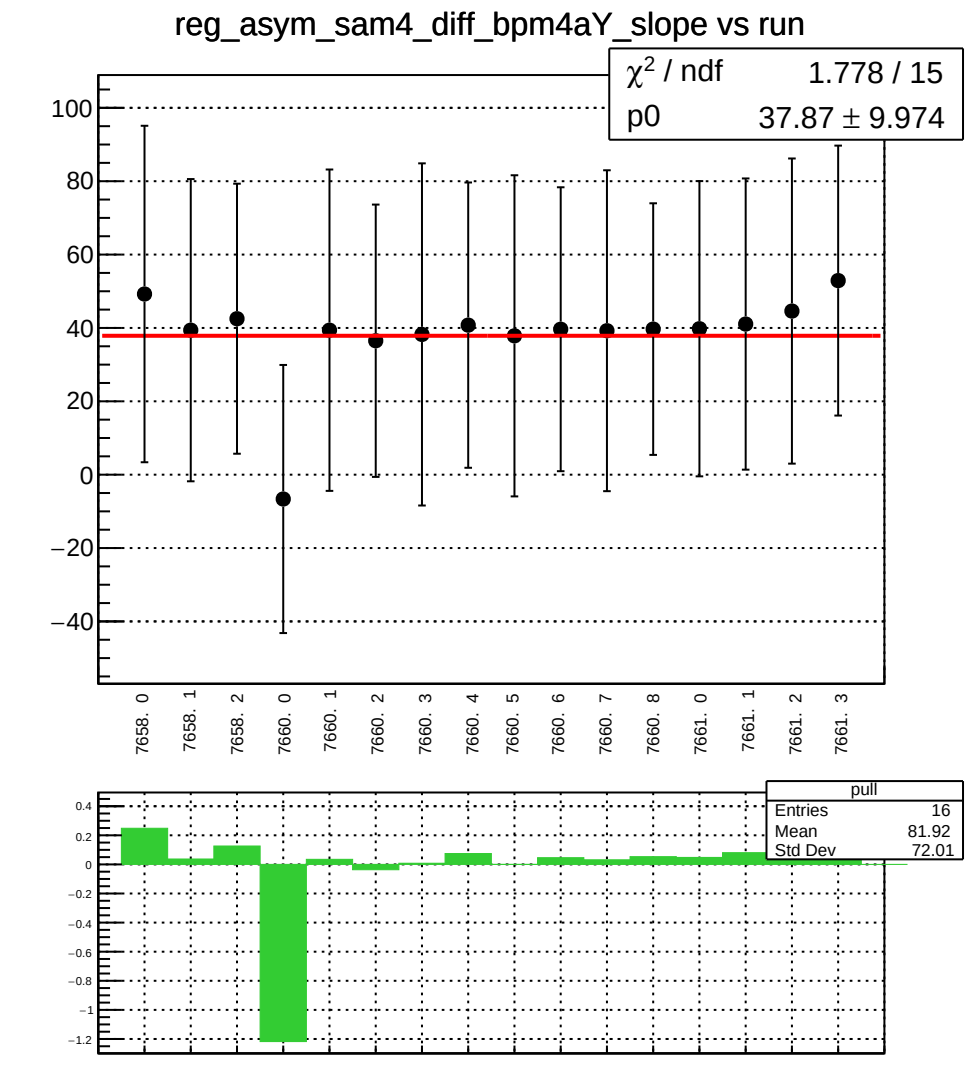

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 1.409 / 15
p0 −9.263 ± 6.586
40
30
20
10
0
−10
−20
−30
−40
−50
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 43.47
Std Dev 29.93
0.6
0.4
0.2
0
−0.2
−0.4

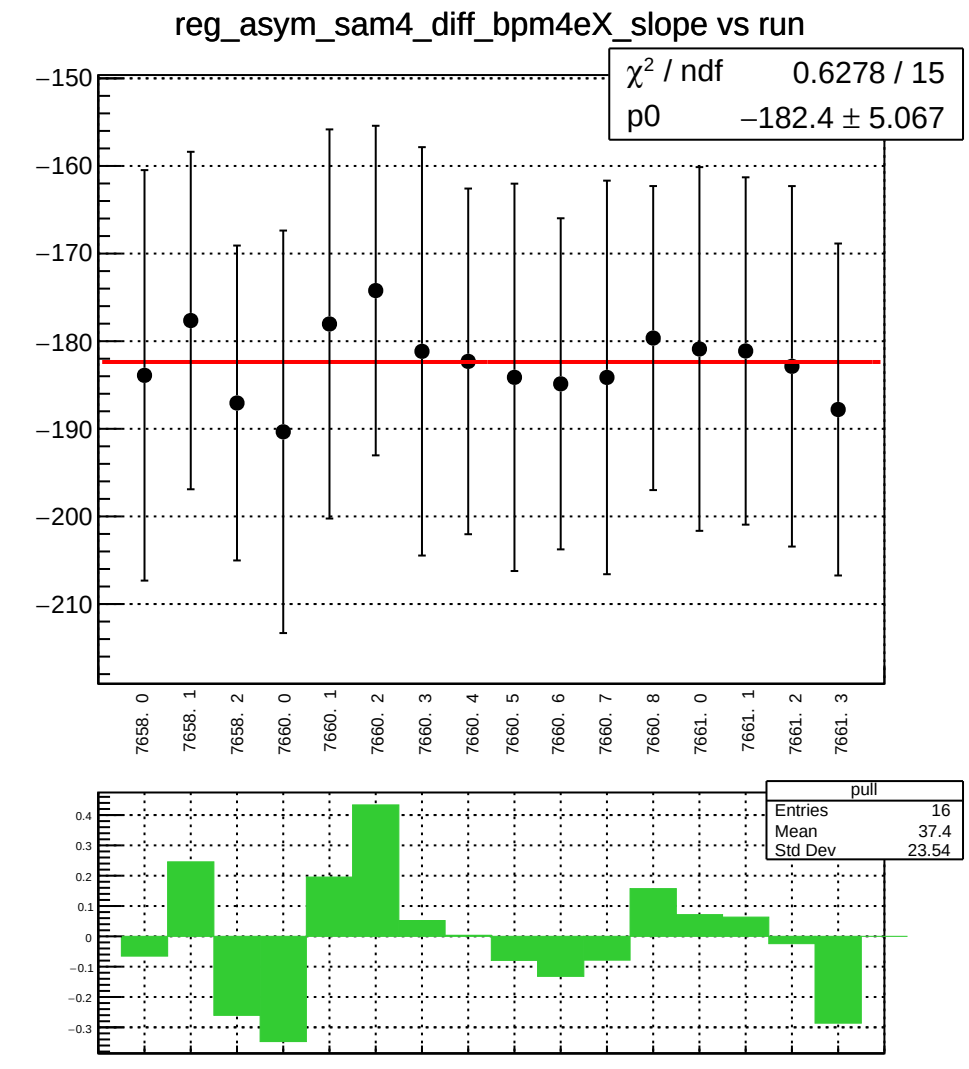

pull1D
Entries 16
Mean −0.002183
Std Dev 0.2968
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

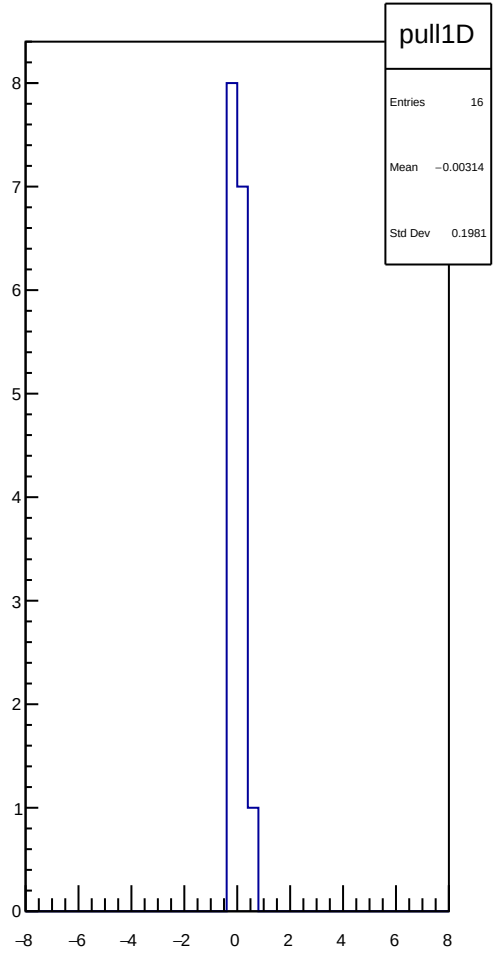

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 1.37 / 15
p0 0.2357 ± 0.3699
3
2
1
0
−1
−2
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 35.09
Std Dev 30.37
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 16
Mean 0.009941
Std Dev 0.2924
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

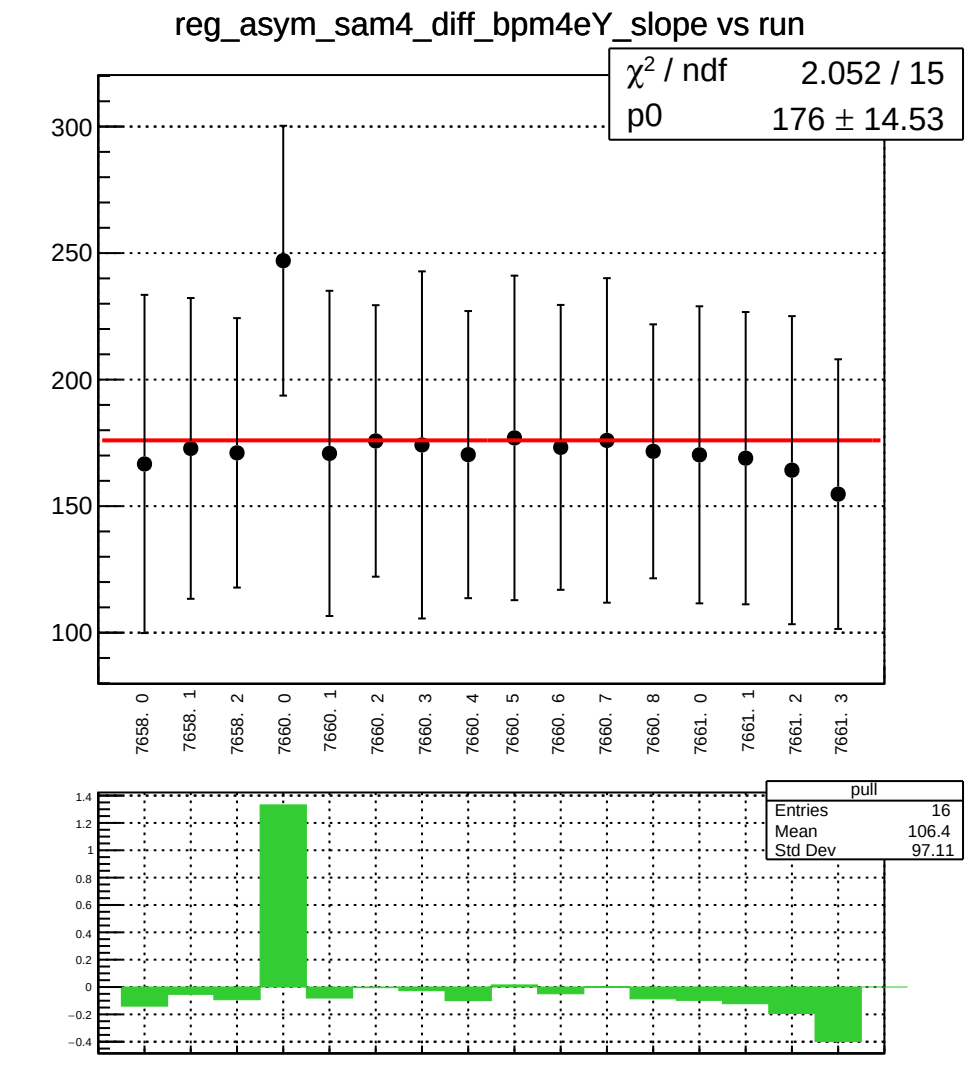

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 0.5009 / 15
p0 0.9897 ± 6.163
30
20
10
0
−10
−20
−30
−40
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −109.8
Std Dev 117.9
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

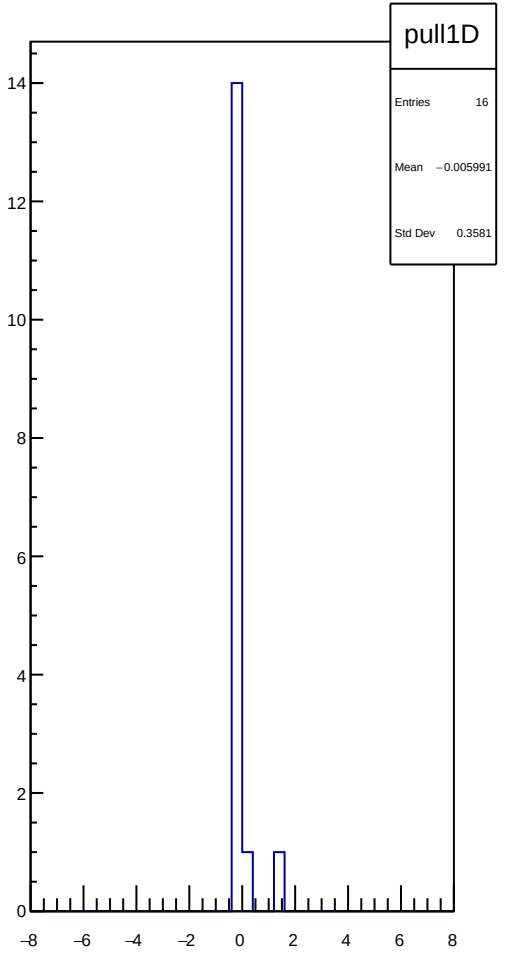

pull1D
Entries 16
Mean −0.004489
Std Dev 0.1769
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

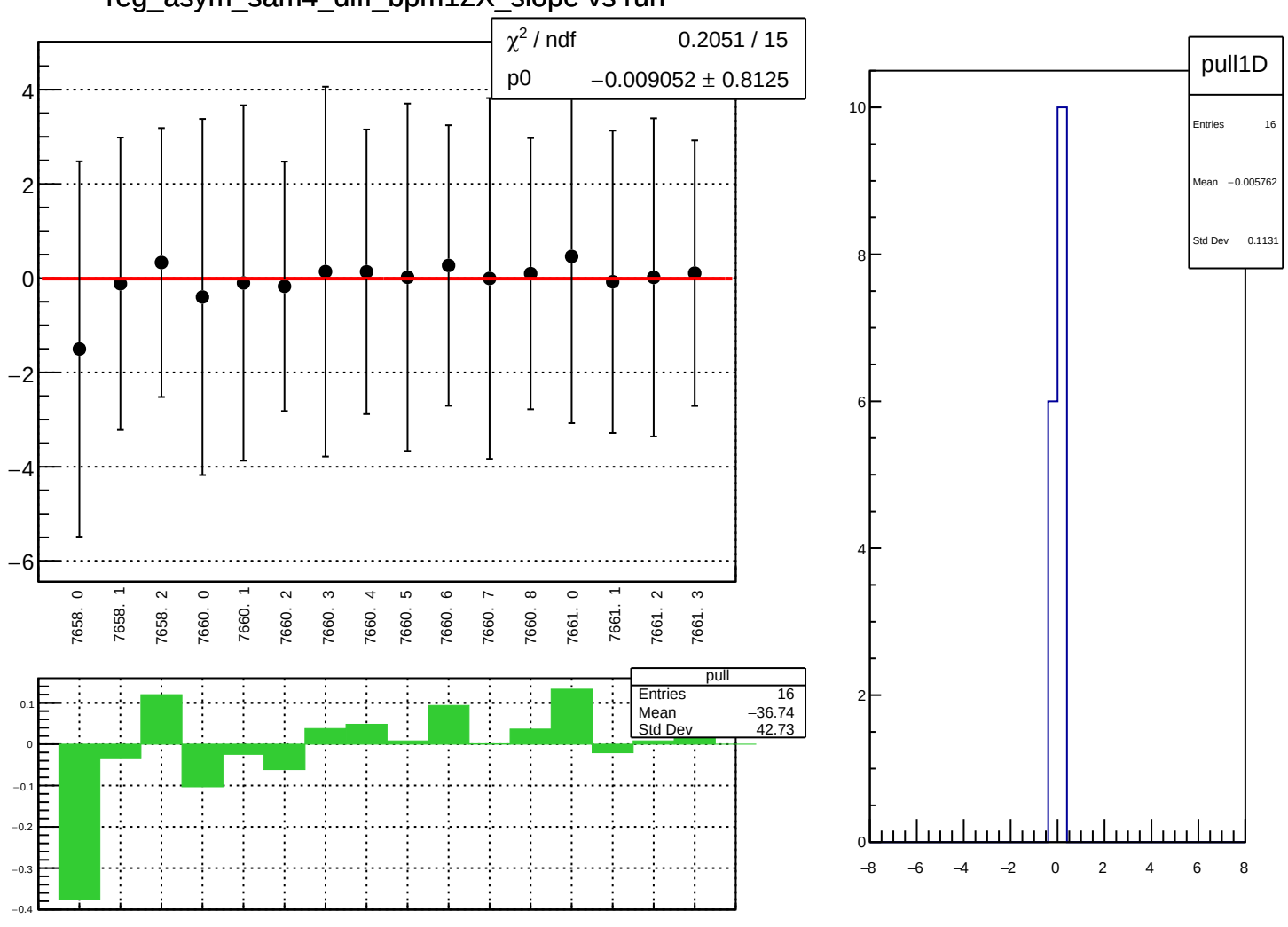

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 1.778 / 15
p0 37.87 ± 9.974
100
80
60
40
20
0
−20
−40
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 81.92
Std Dev 72.01
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 16
Mean 0.006522
Std Dev 0.3333
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

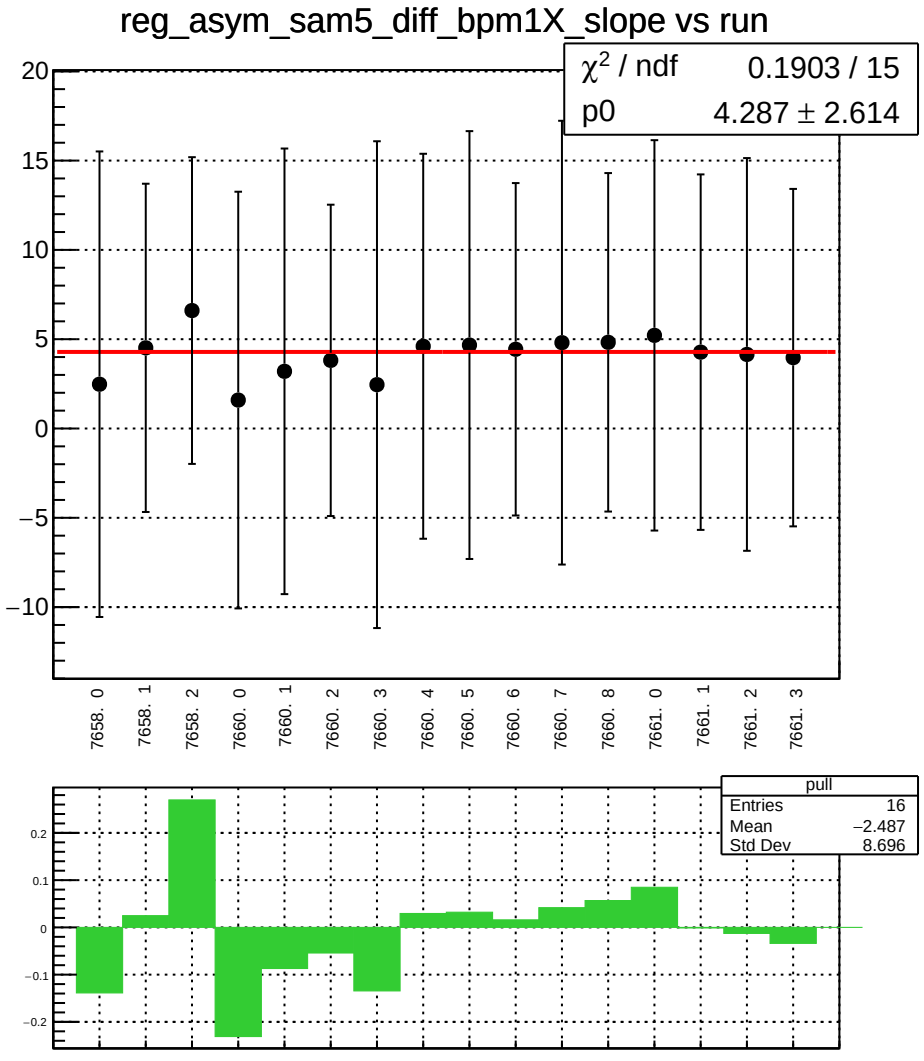

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 0.6278 / 15
p0 −182.4 ± 5.067
−150
−160
−170
−180
−190
−200
−210
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 37.4
Std Dev 23.54
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

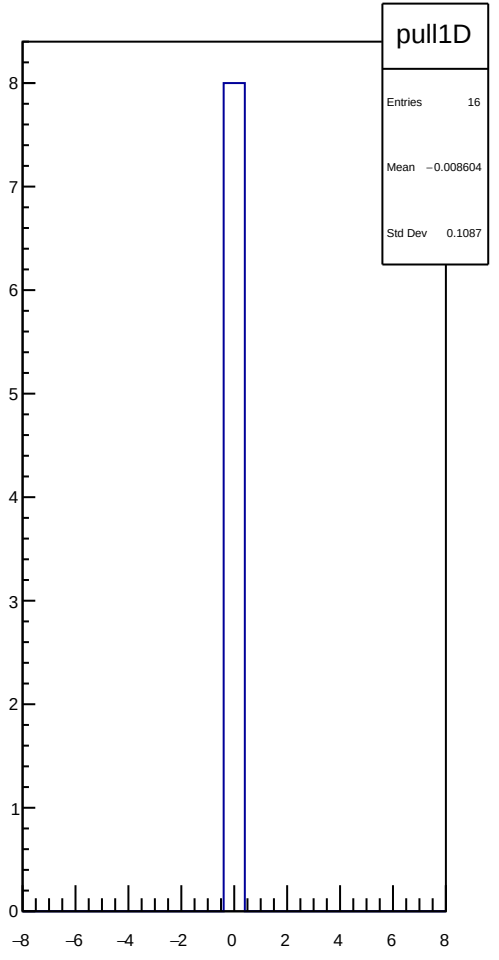

pull1D
Entries 16
Mean −0.00314
Std Dev 0.1981
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

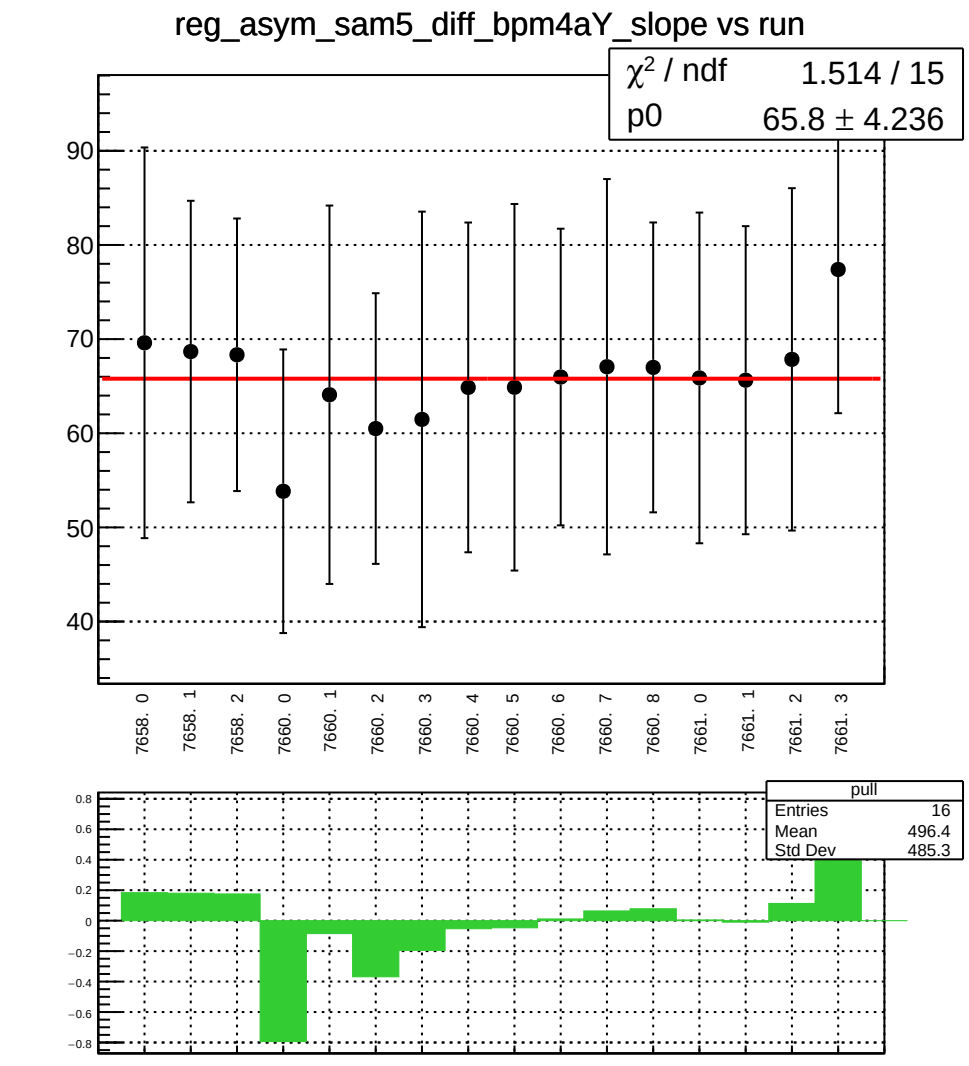

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 2.052 / 15
p0 176 ± 14.53
300
250
200
150
100
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 106.4
Std Dev 97.11
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4

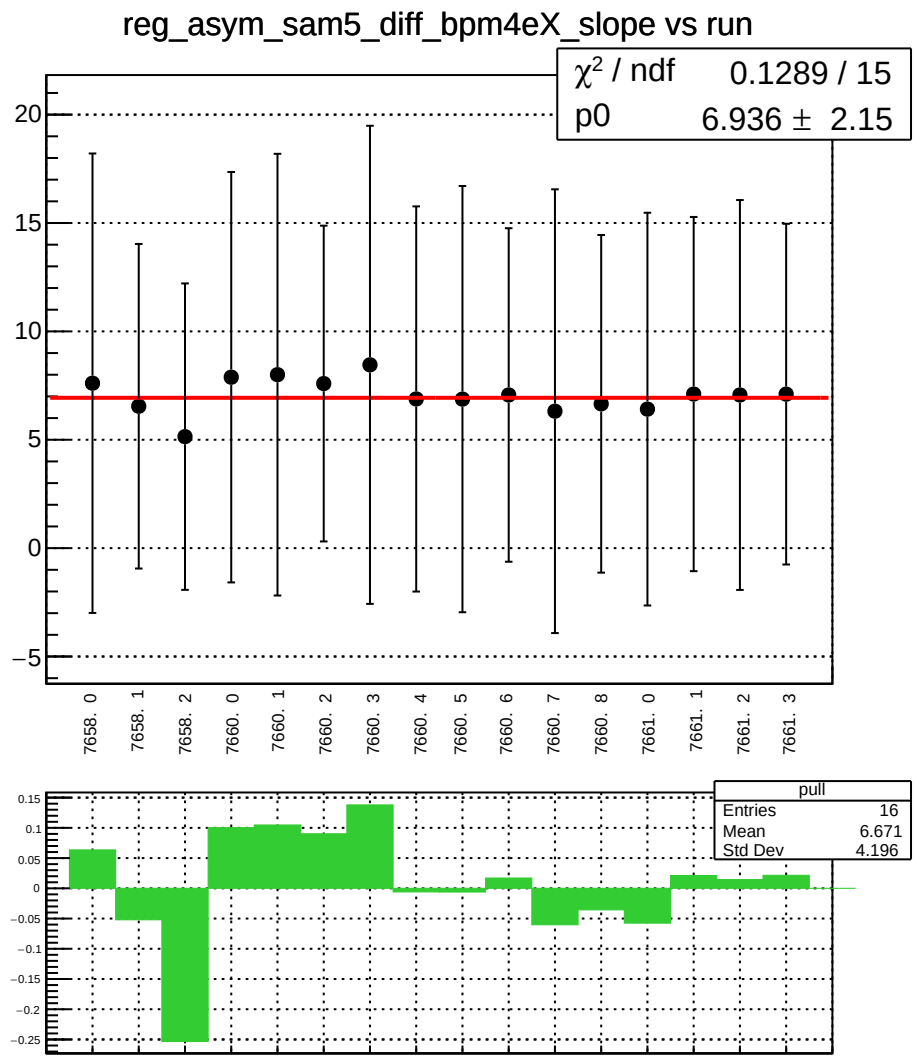

pull1D
Entries 16
Mean −0.005991
Std Dev 0.3581
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

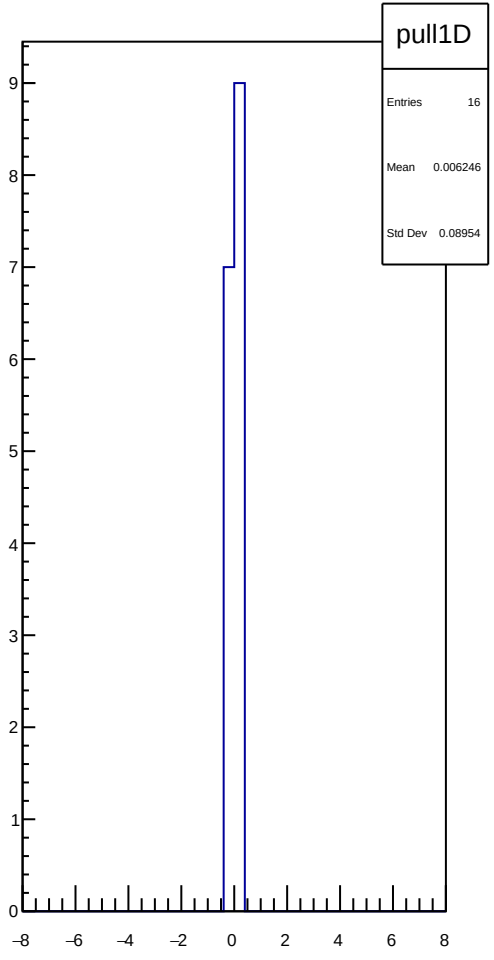

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 0.2051 / 15
p0 −0.009052 ± 0.8125
4
2
0
−2
−4
−6
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −36.74
Std Dev 42.73
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 16
Mean −0.005762
Std Dev 0.1131
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

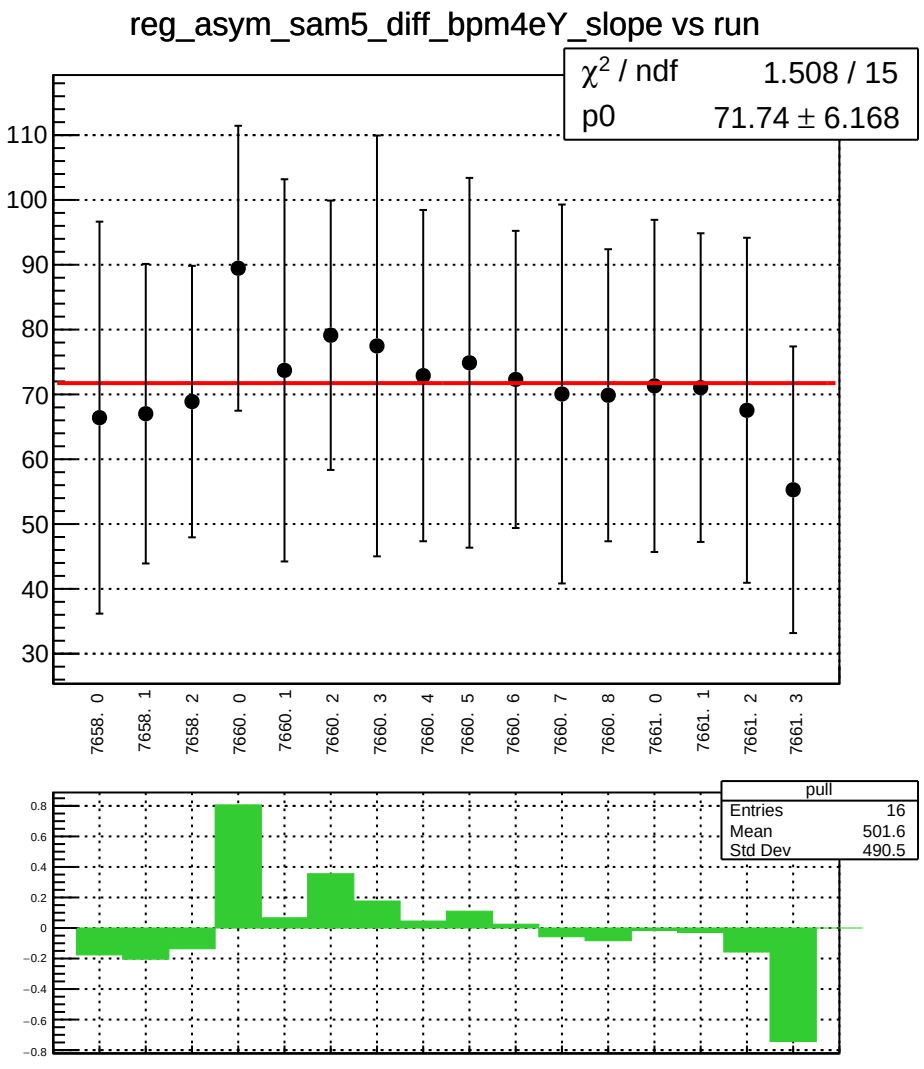

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 0.1903 / 15
p0 4.287 ± 2.614
20
15
10
5
0
−5
−10
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −2.487
Std Dev 8.696
0.2
0.1
0
−0.1
−0.2

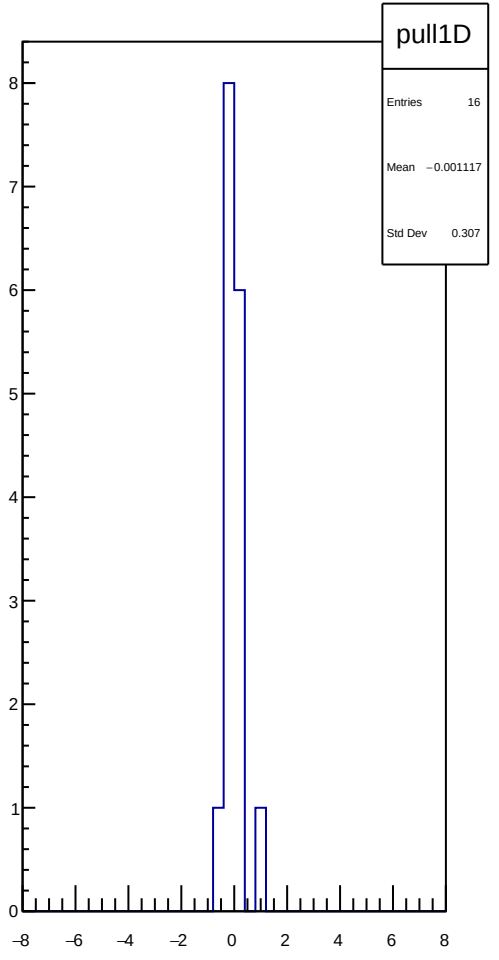

pull1D
Entries 16
Mean −0.008604
Std Dev 0.1087
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

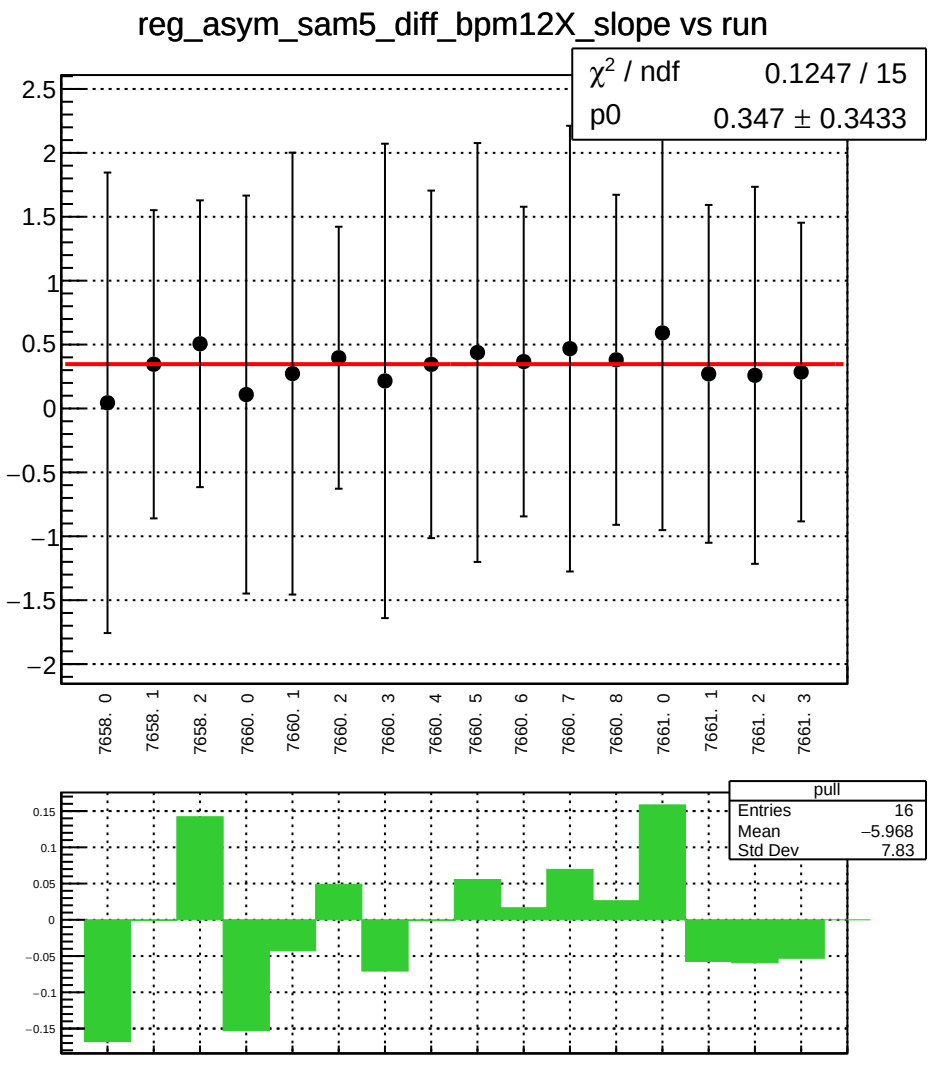

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 1.514 / 15
p0 65.8 ± 4.236
90
80
70
60
50
40
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 496.4
Std Dev 485.3
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 16
Mean 0.001078
Std Dev 0.3076
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

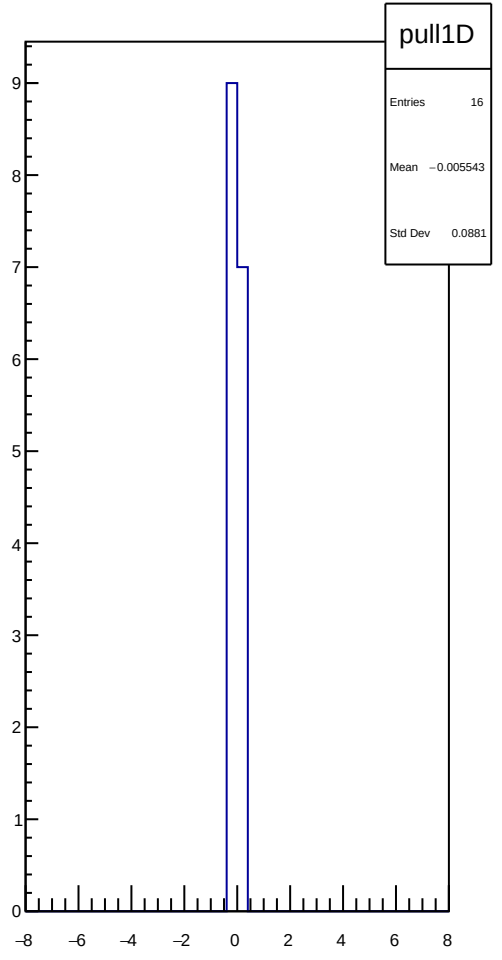

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 0.1289 / 15
p0 6.936 ± 2.15
20
15
10
5
0
−5
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 6.671
Std Dev 4.196
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
−0.25

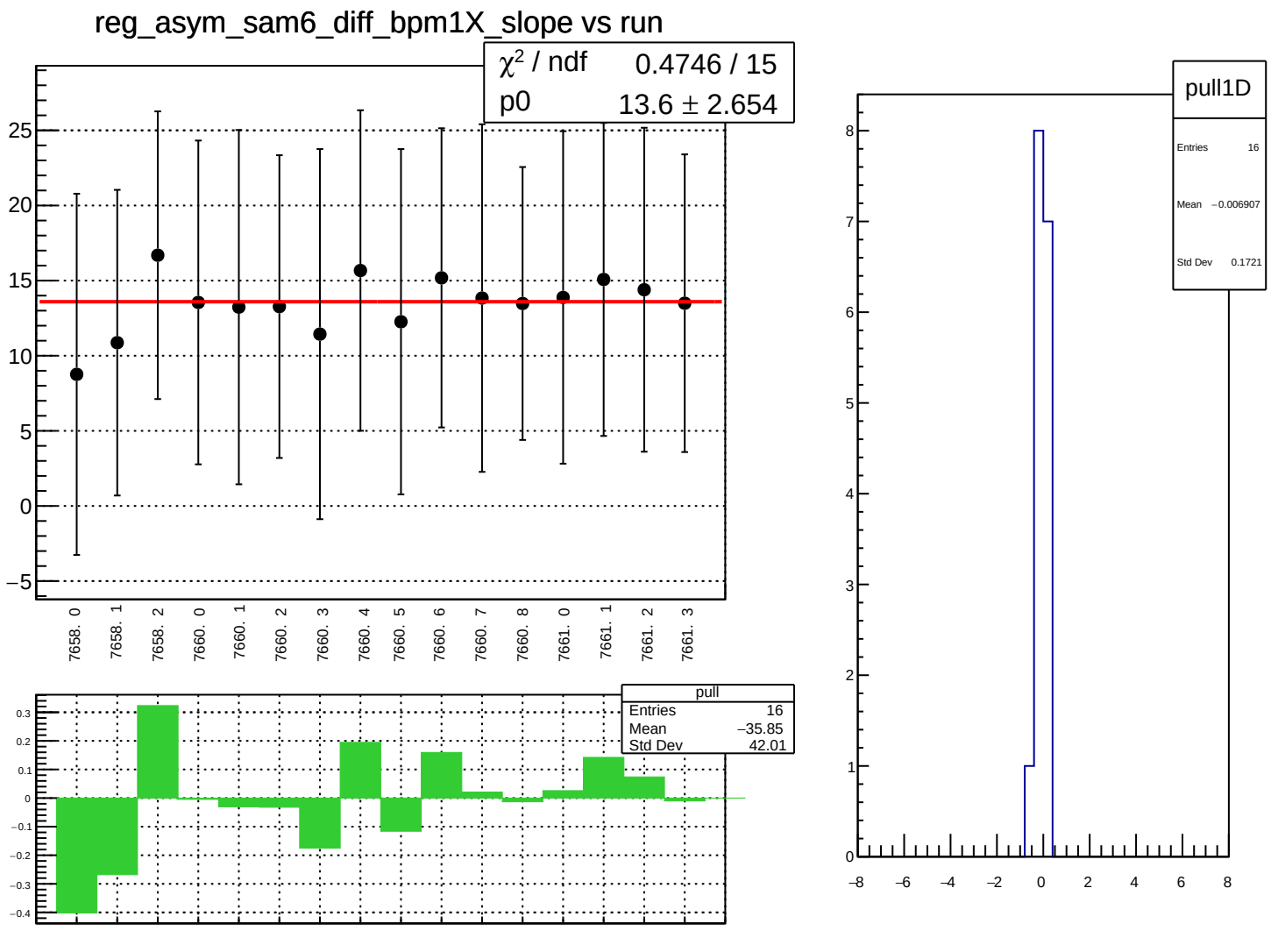

pull1D
Entries 16
Mean 0.006246
Std Dev 0.08954
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

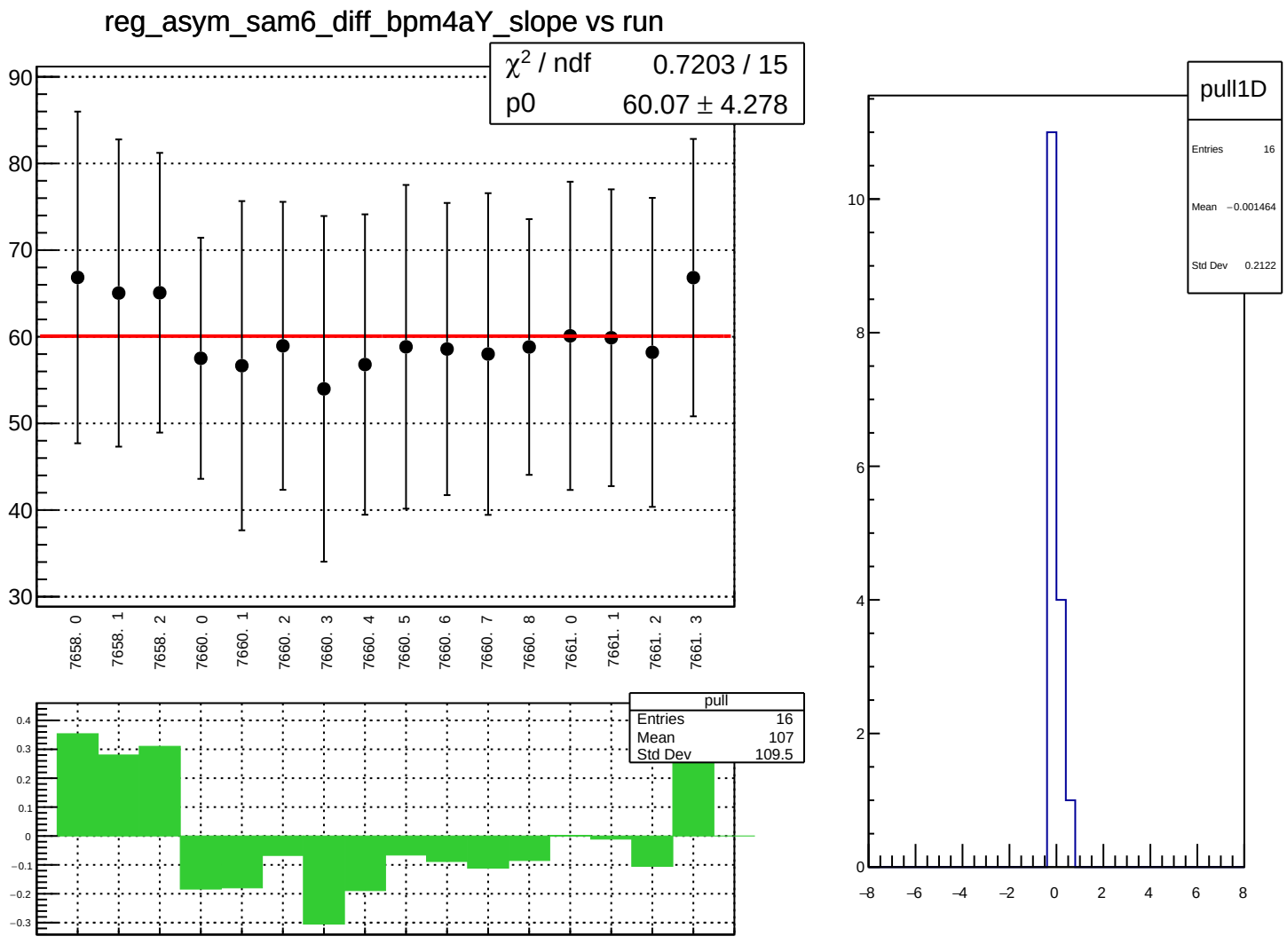

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 1.508 / 15
p0 71.74 ± 6.168
110
100
90
80
70
60
50
40
30
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 501.6
Std Dev 490.5
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

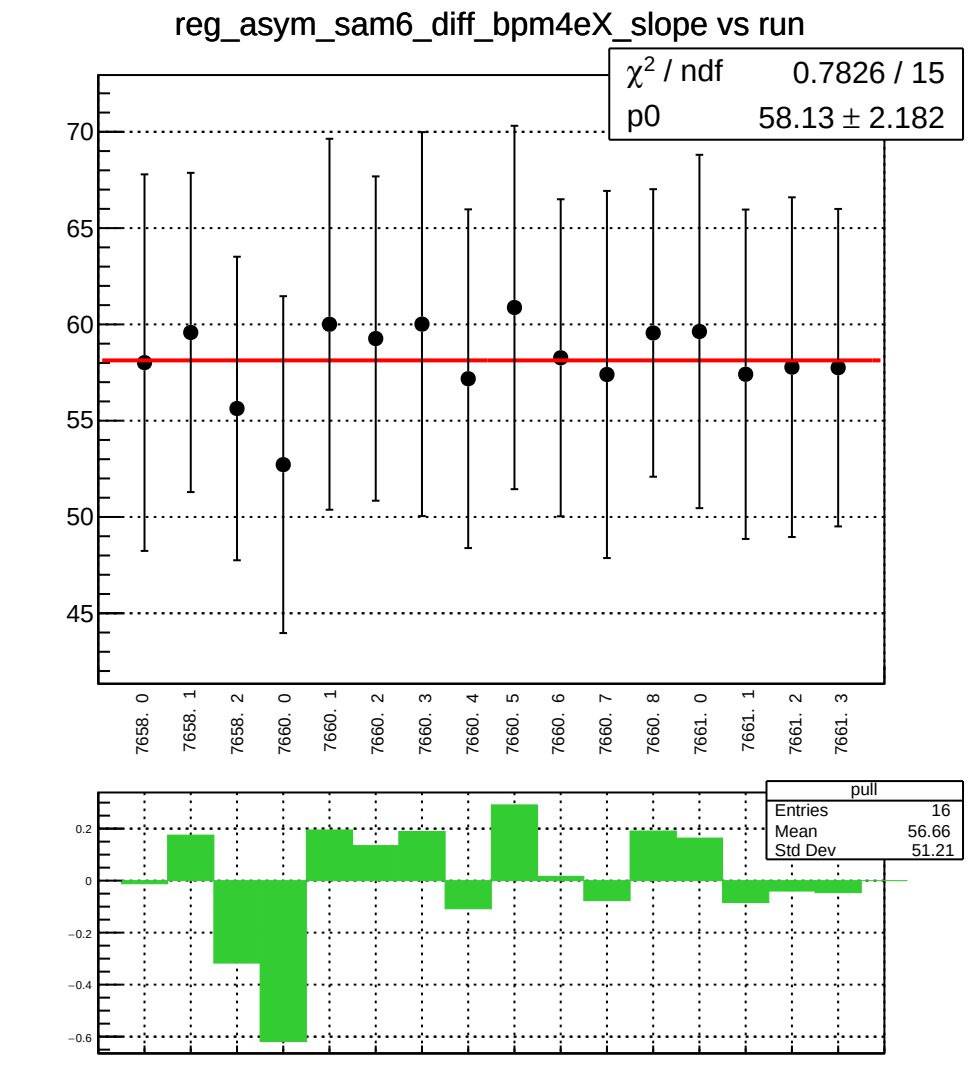

pull1D
Entries 16
Mean −0.001117
Std Dev 0.307
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

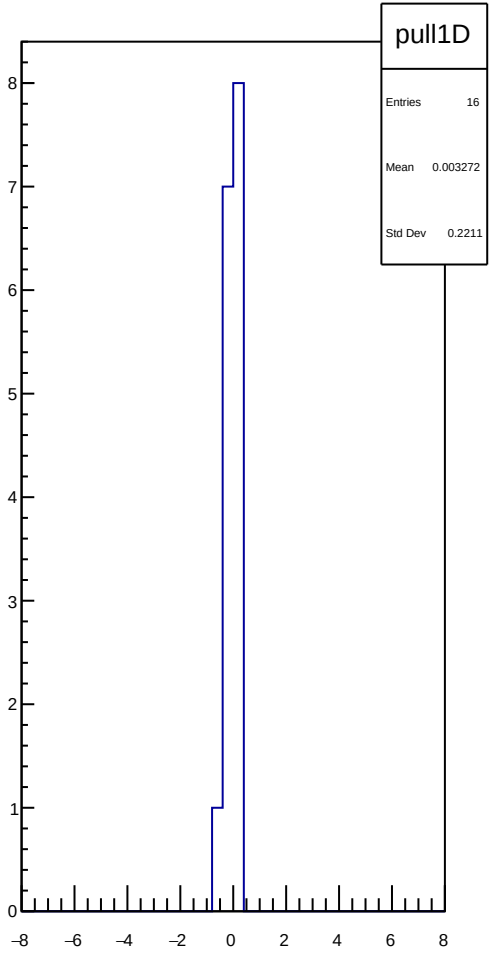

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 0.1247 / 15
p0 0.347 ± 0.3433
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −5.968
Std Dev 7.83
0.15
0.1
0.05
0
−0.05
−0.1
−0.15

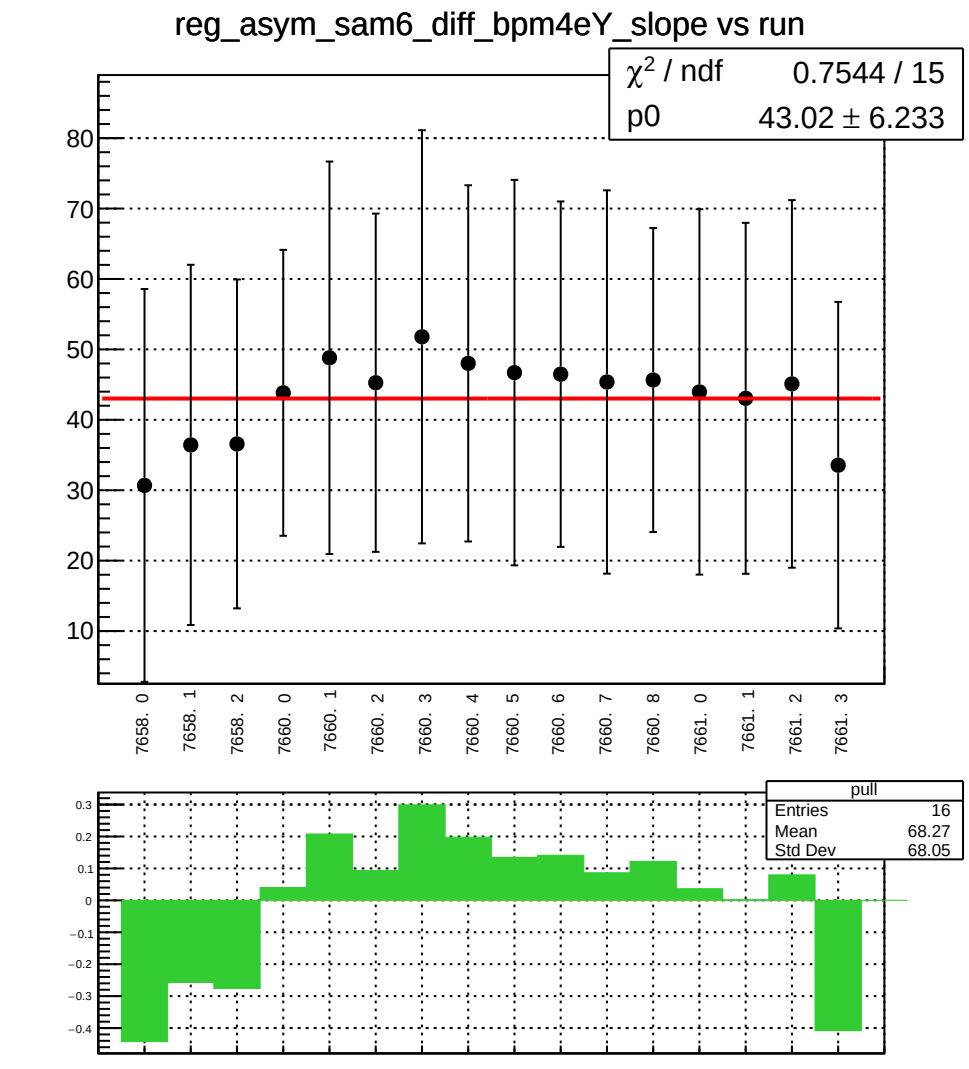

pull1D
Entries 16
Mean −0.005543
Std Dev 0.0881
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

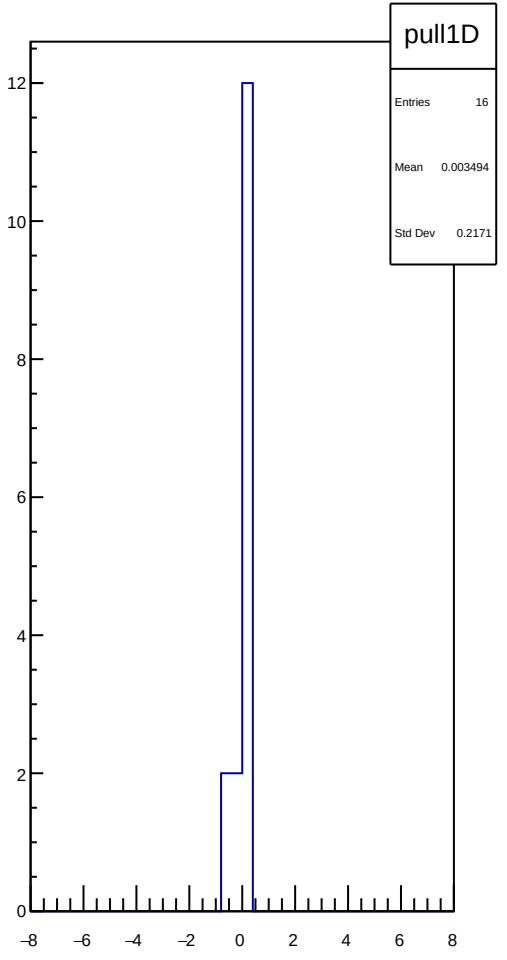

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 0.4746 / 15
p0 13.6 ± 2.654
25
20
15
10
5
0
−5
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −35.85
Std Dev 42.01
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 16
Mean −0.006907
Std Dev 0.1721
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

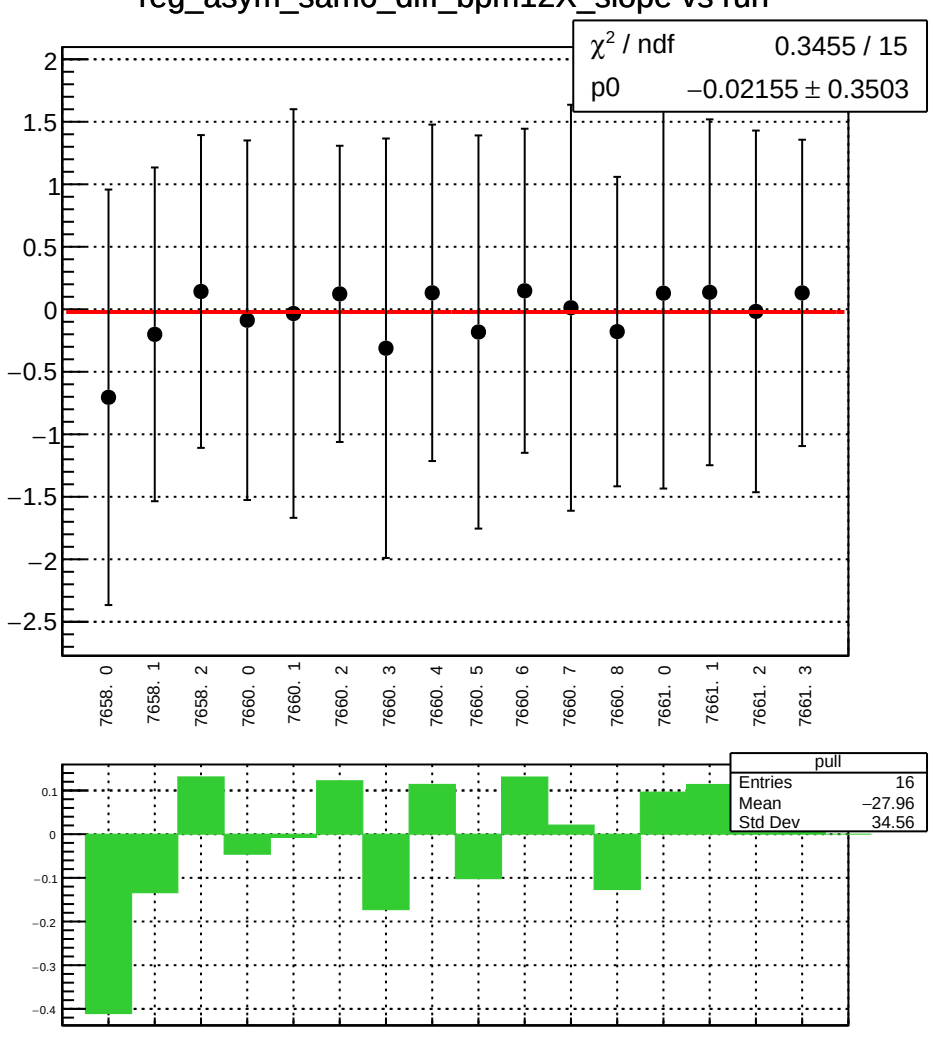

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 0.7203 / 15
p0 60.07 ± 4.278
90
80
70
60
50
40
30
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 107
Std Dev 109.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 16
Mean −0.001464
Std Dev 0.2122
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

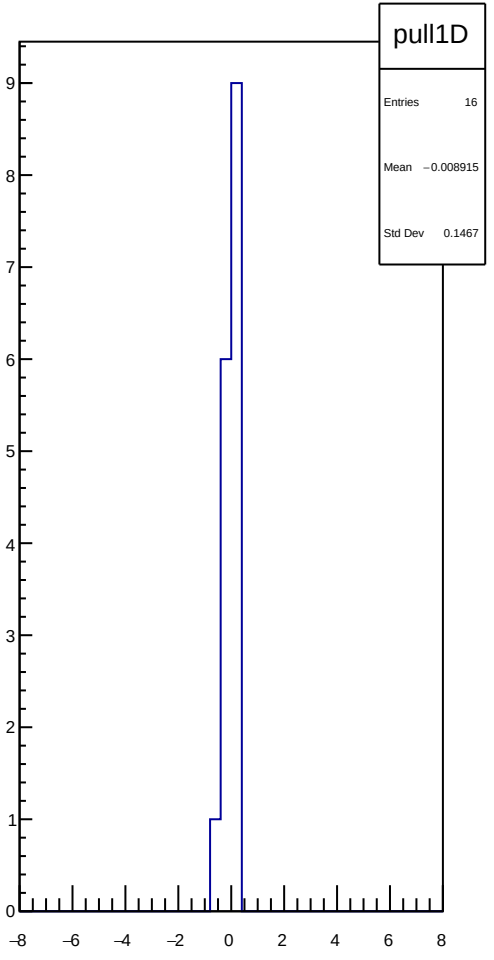

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 0.7826 / 15
p0 58.13 ± 2.182
70
65
60
55
50
45
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 56.66
Std Dev 51.21
0.2
0
−0.2
−0.4
−0.6

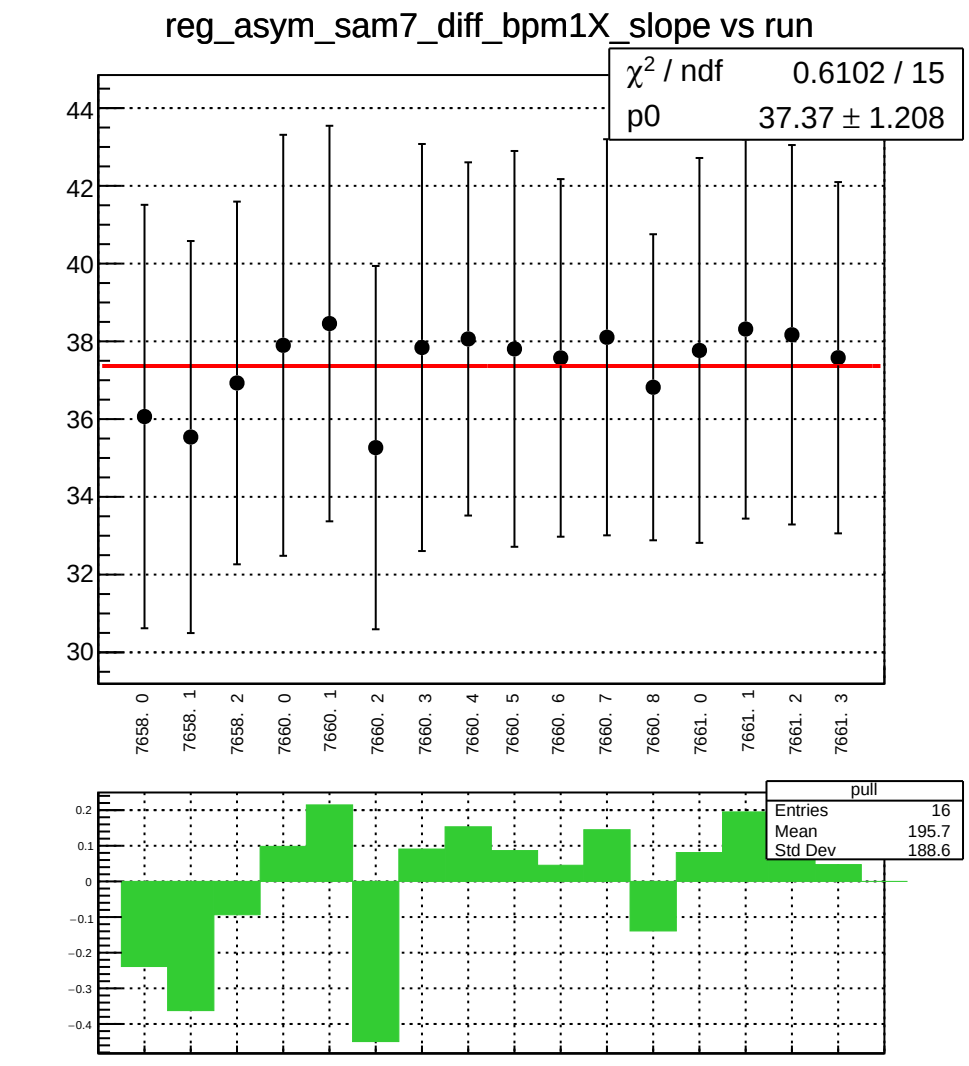

pull1D
Entries 16
Mean 0.003272
Std Dev 0.2211
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

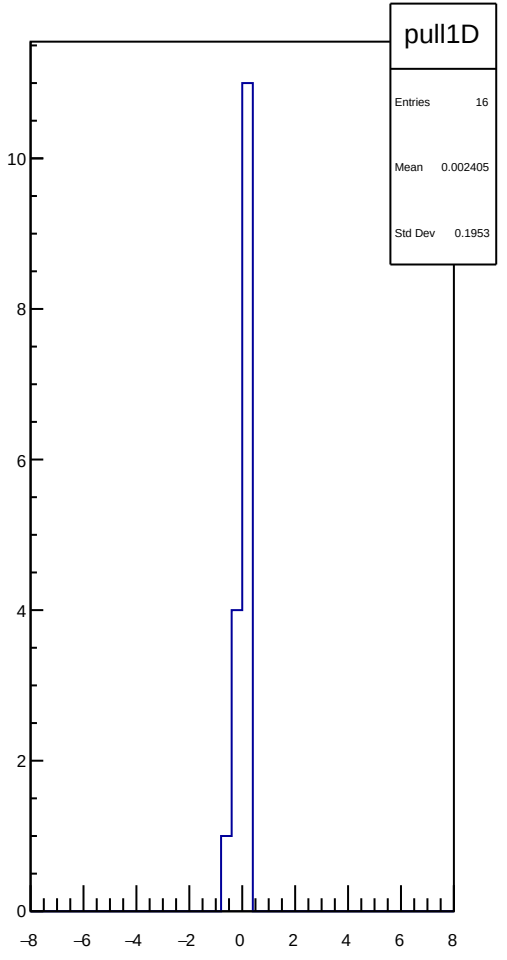

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 0.7544 / 15
p0 43.02 ± 6.233
80
70
60
50
40
30
20
10
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 68.27
Std Dev 68.05
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

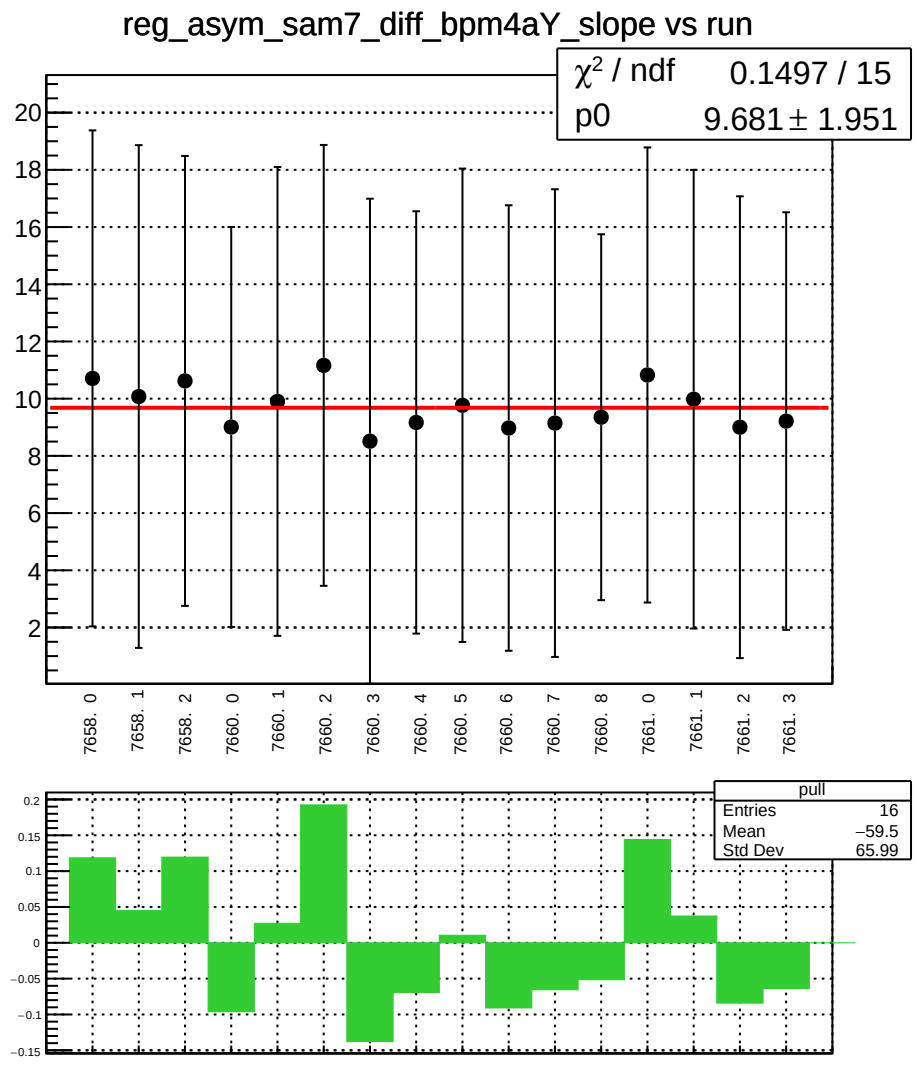

pull1D
Entries 16
Mean 0.003494
Std Dev 0.2171
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

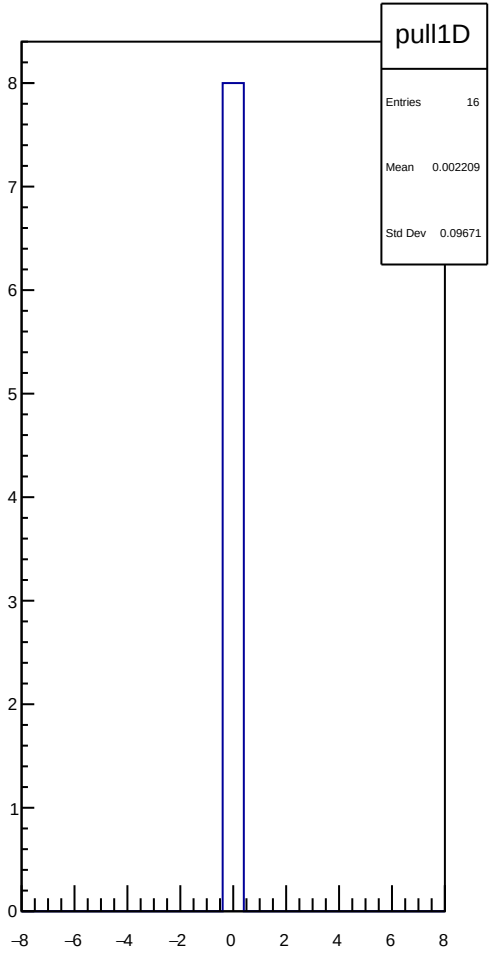

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 0.3455 / 15
p0 −0.02155 ± 0.3503
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −27.96
Std Dev 34.56
0.1
0
−0.1
−0.2
−0.3
−0.4

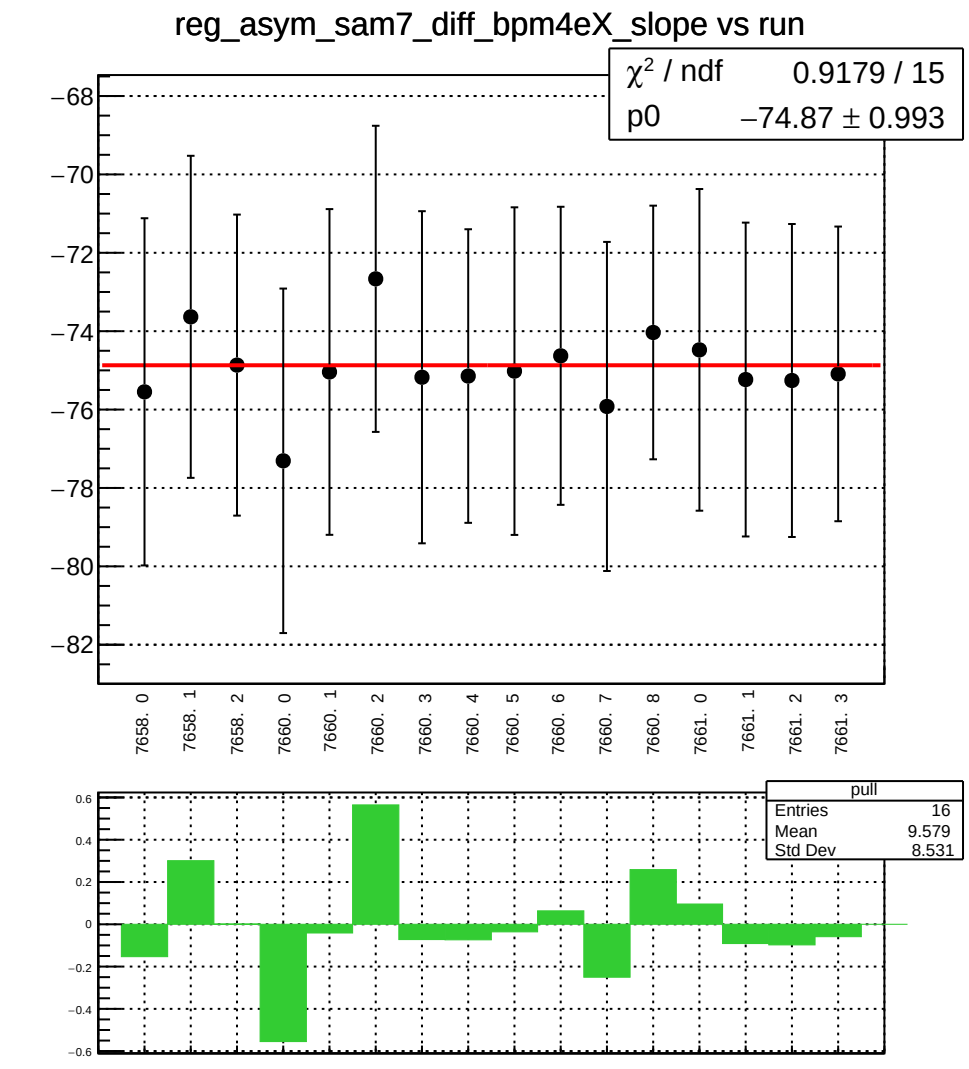

pull1D
Entries 16
Mean −0.008915
Std Dev 0.1467
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

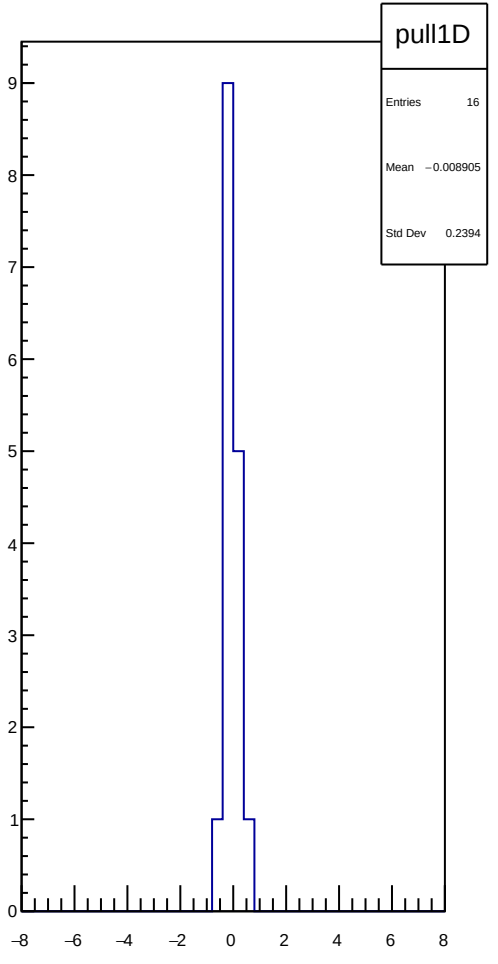

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 0.6102 / 15
p0 37.37 ± 1.208
44
42
40
38
36
34
32
30
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 195.7
Std Dev 188.6
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

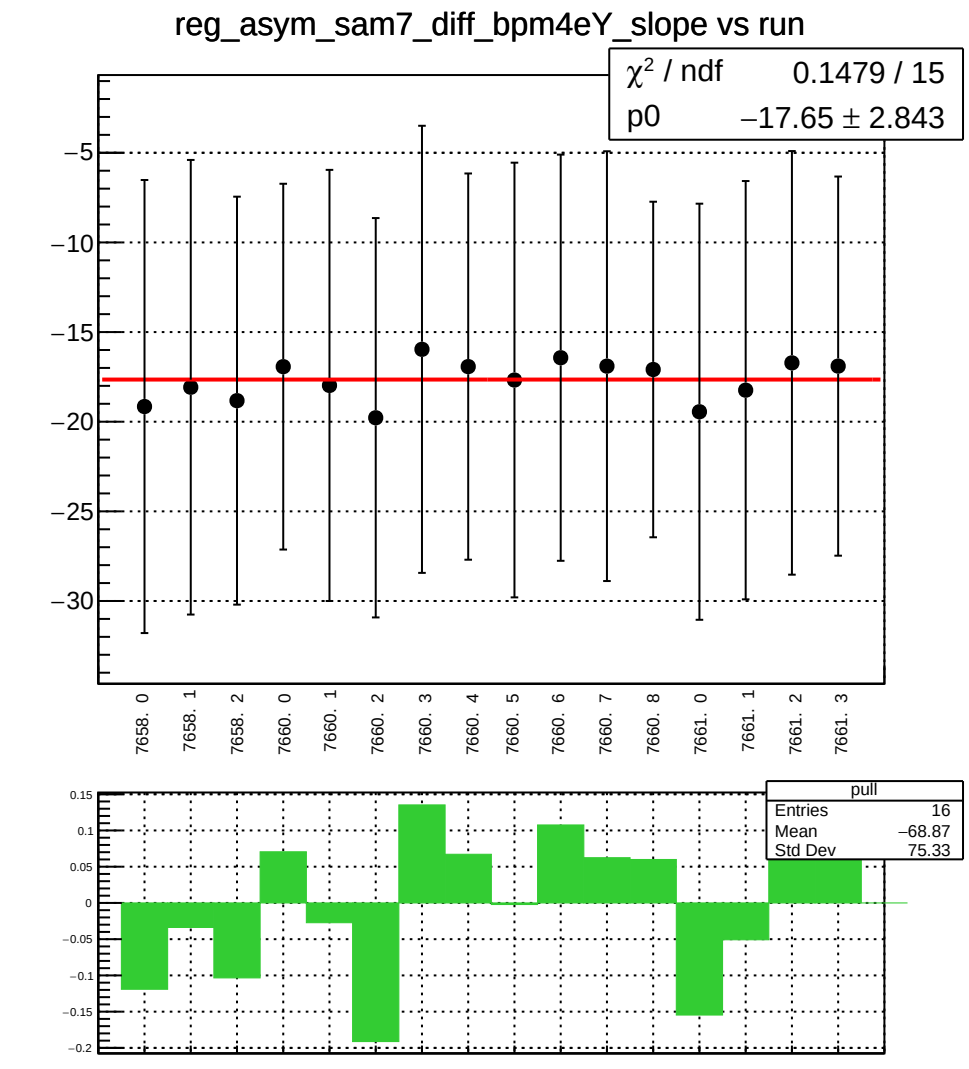

pull1D
Entries 16
Mean 0.002405
Std Dev 0.1953
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

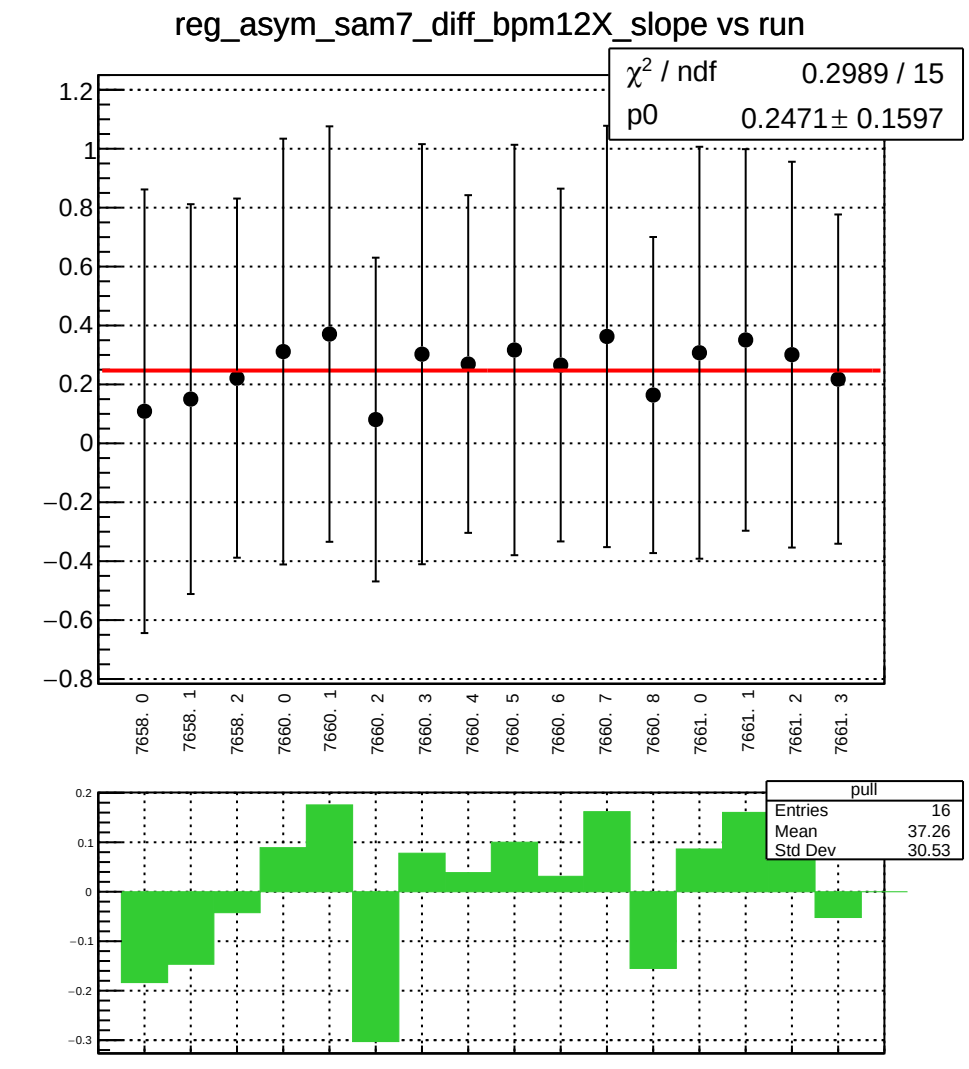

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 0.1497 / 15
p0 9.681 ± 1.951
20
18
16
14
12
10
8
6
4
2
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −59.5
Std Dev 65.99
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15

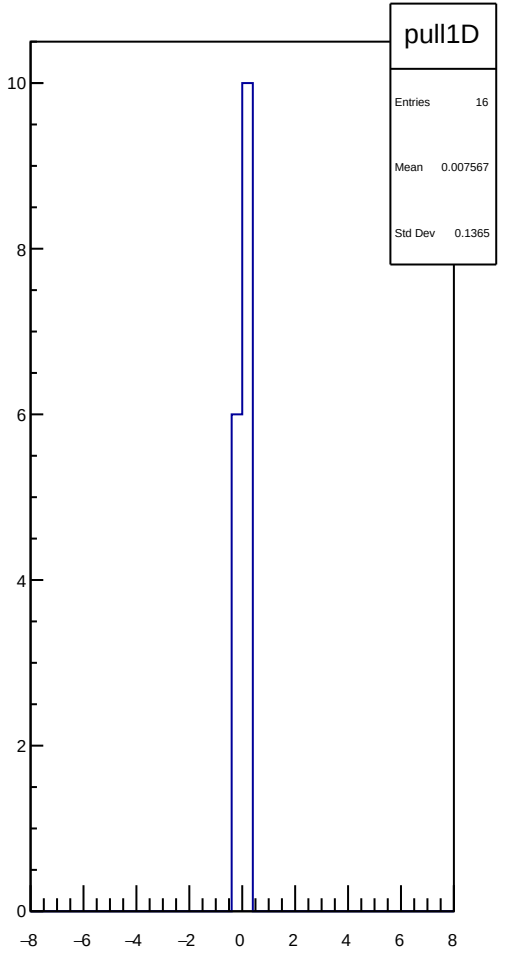

pull1D
Entries 16
Mean 0.002209
Std Dev 0.09671
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

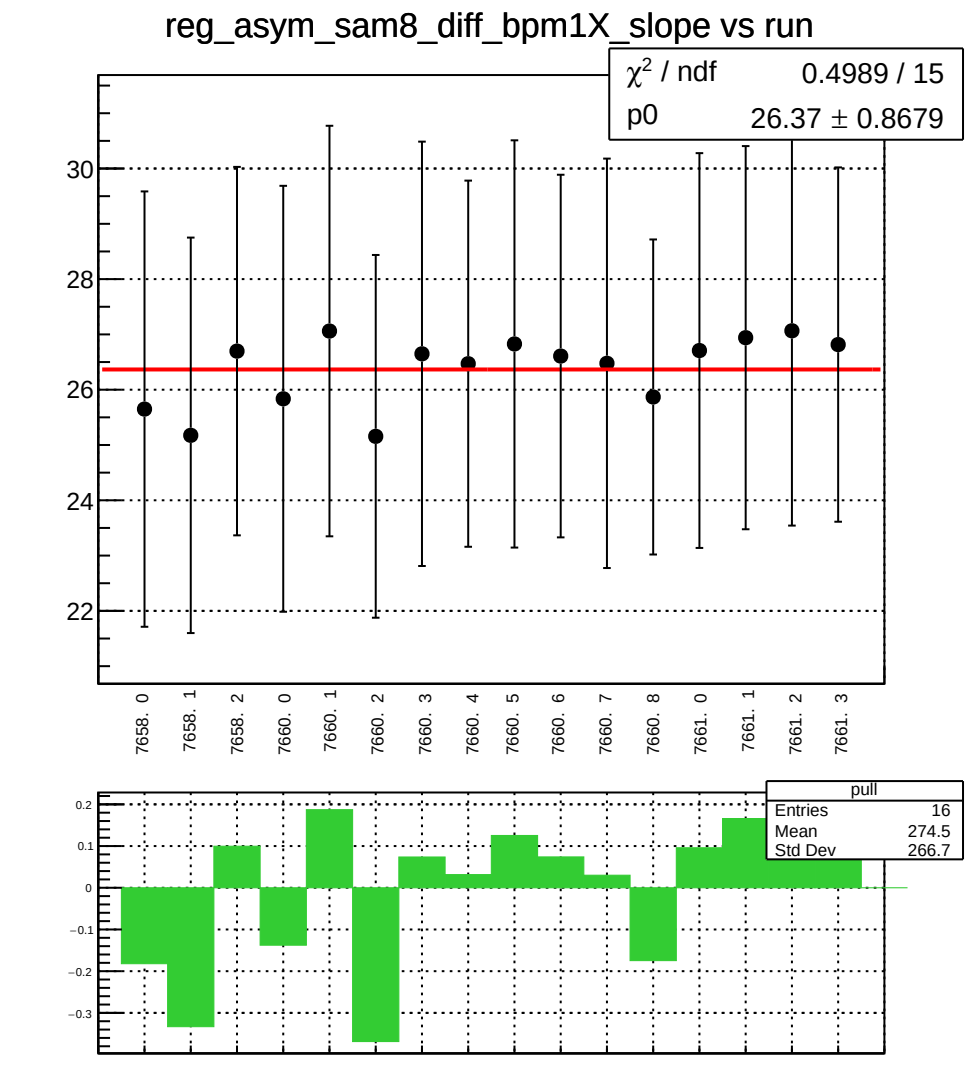

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 0.9179 / 15
p0 −74.87 ± 0.993
−68
−70
−72
−74
−76
−78
−80
−82
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 9.579
Std Dev 8.531
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

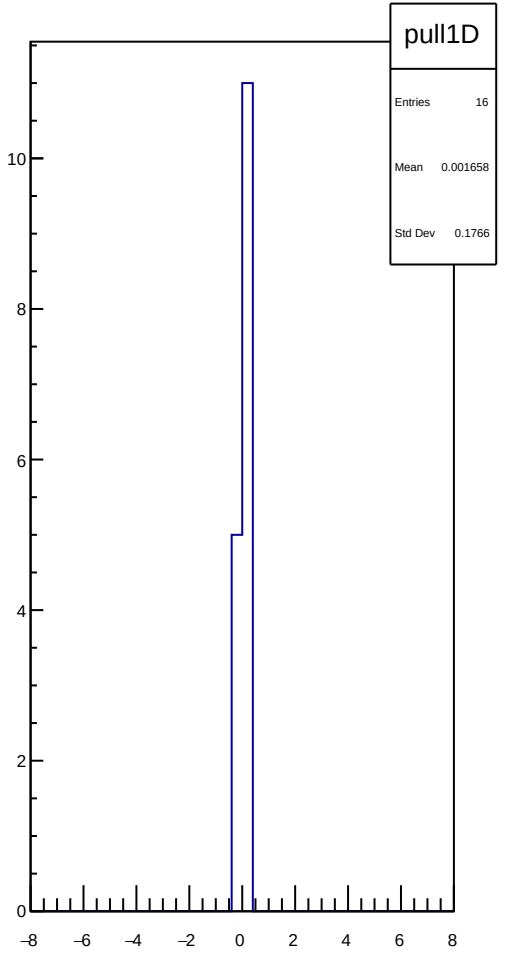

pull1D
Entries 16
Mean −0.008905
Std Dev 0.2394
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

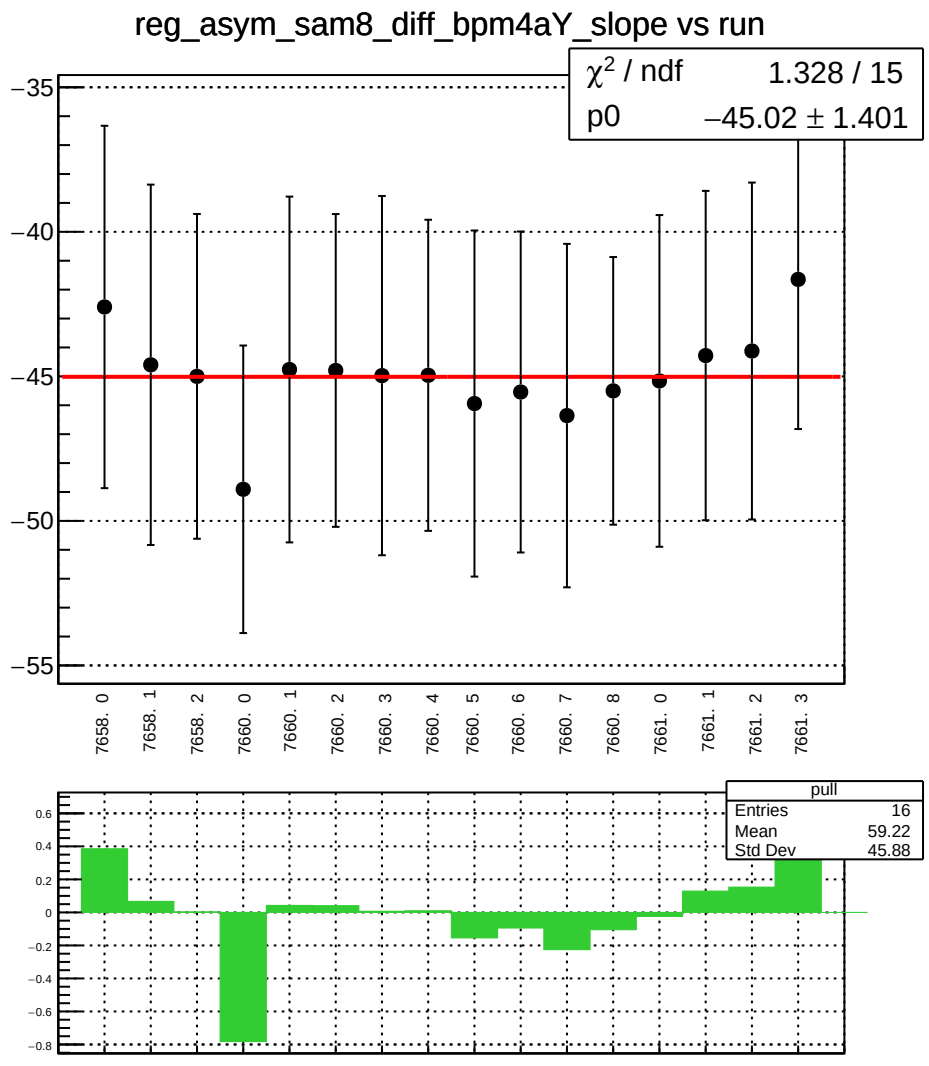

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 0.1479 / 15
p0 −17.65 ± 2.843
−5
−10
−15
−20
−25
−30
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −68.87
Std Dev 75.33
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
pull1D
Entries 16
Mean −0.001867
Std Dev 0.09614
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

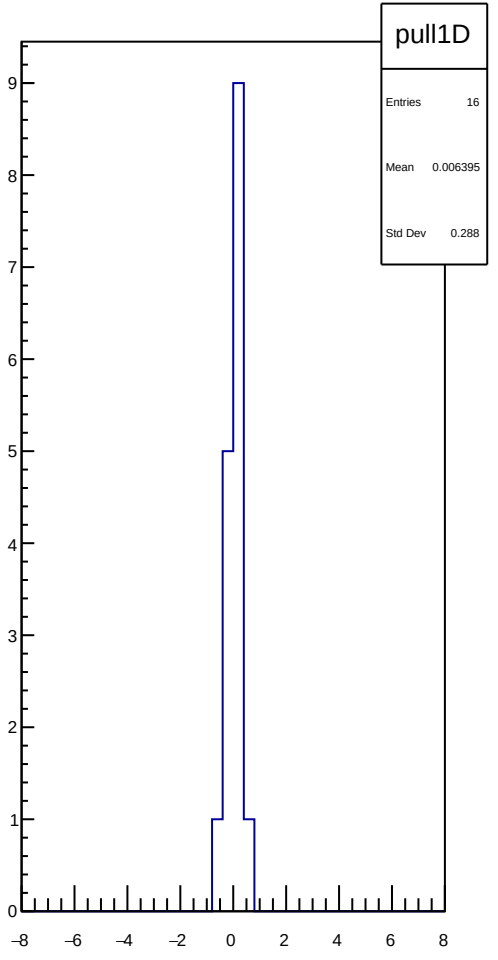

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 0.2989 / 15
p0 0.2471 ± 0.1597
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 37.26
Std Dev 30.53
0.2
0.1
0
−0.1
−0.2
−0.3

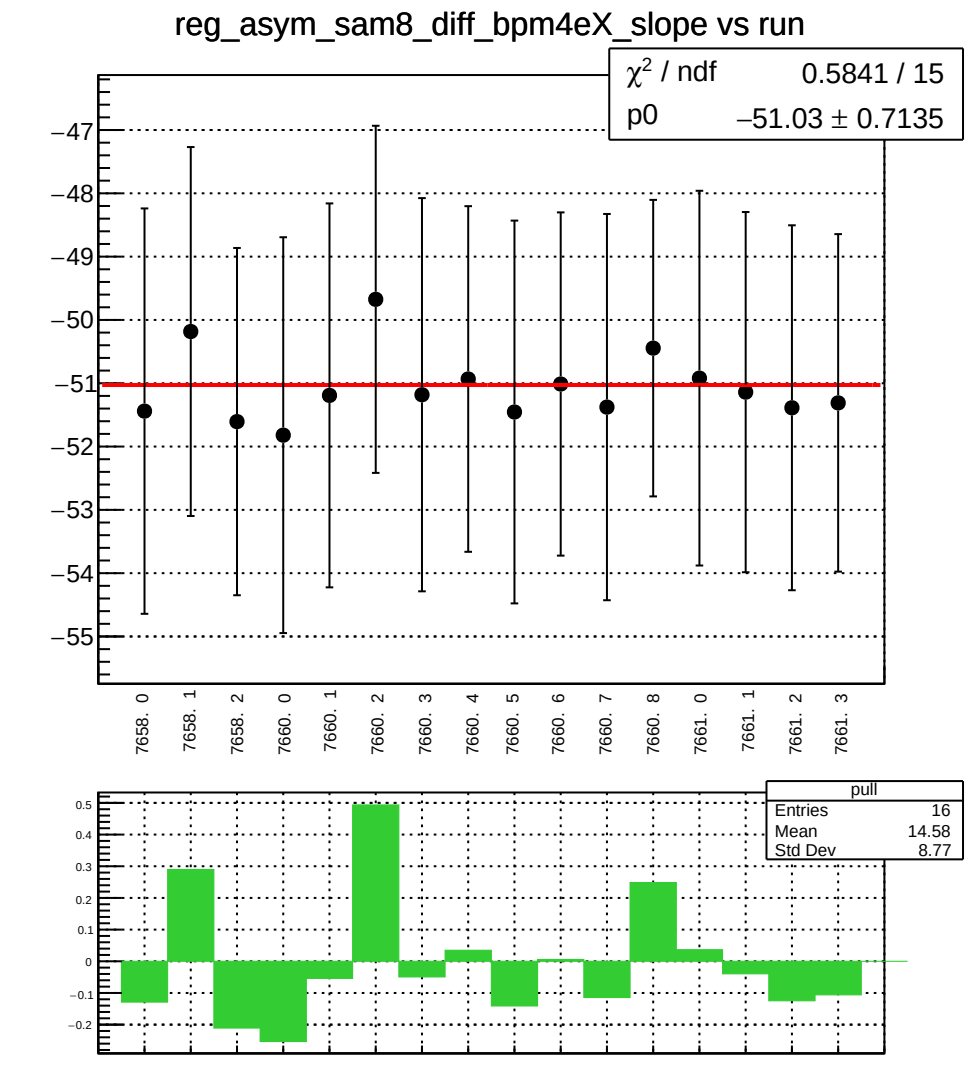

pull1D
Entries 16
Mean 0.007567
Std Dev 0.1365
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

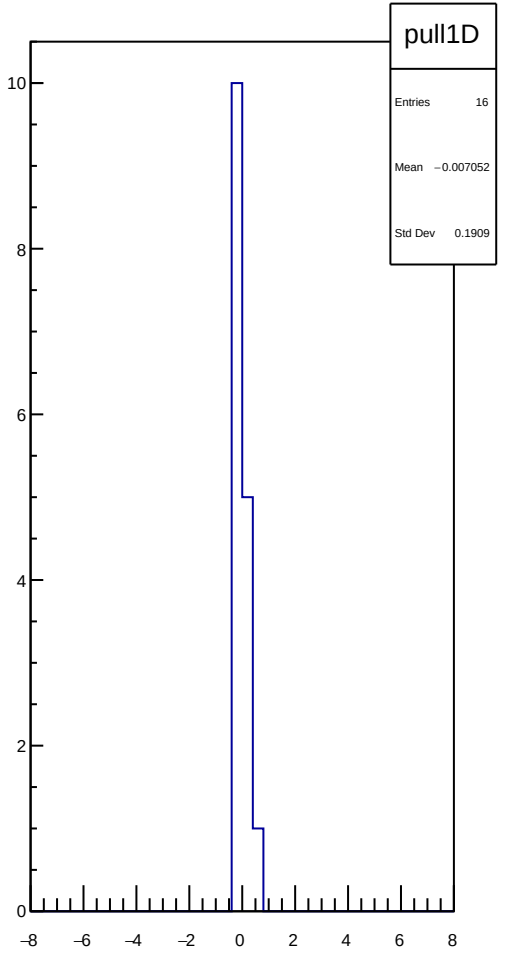

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 0.4989 / 15
p0 26.37 ± 0.8679
30
28
26
24
22
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 274.5
Std Dev 266.7
0.2
0.1
0
−0.1
−0.2
−0.3

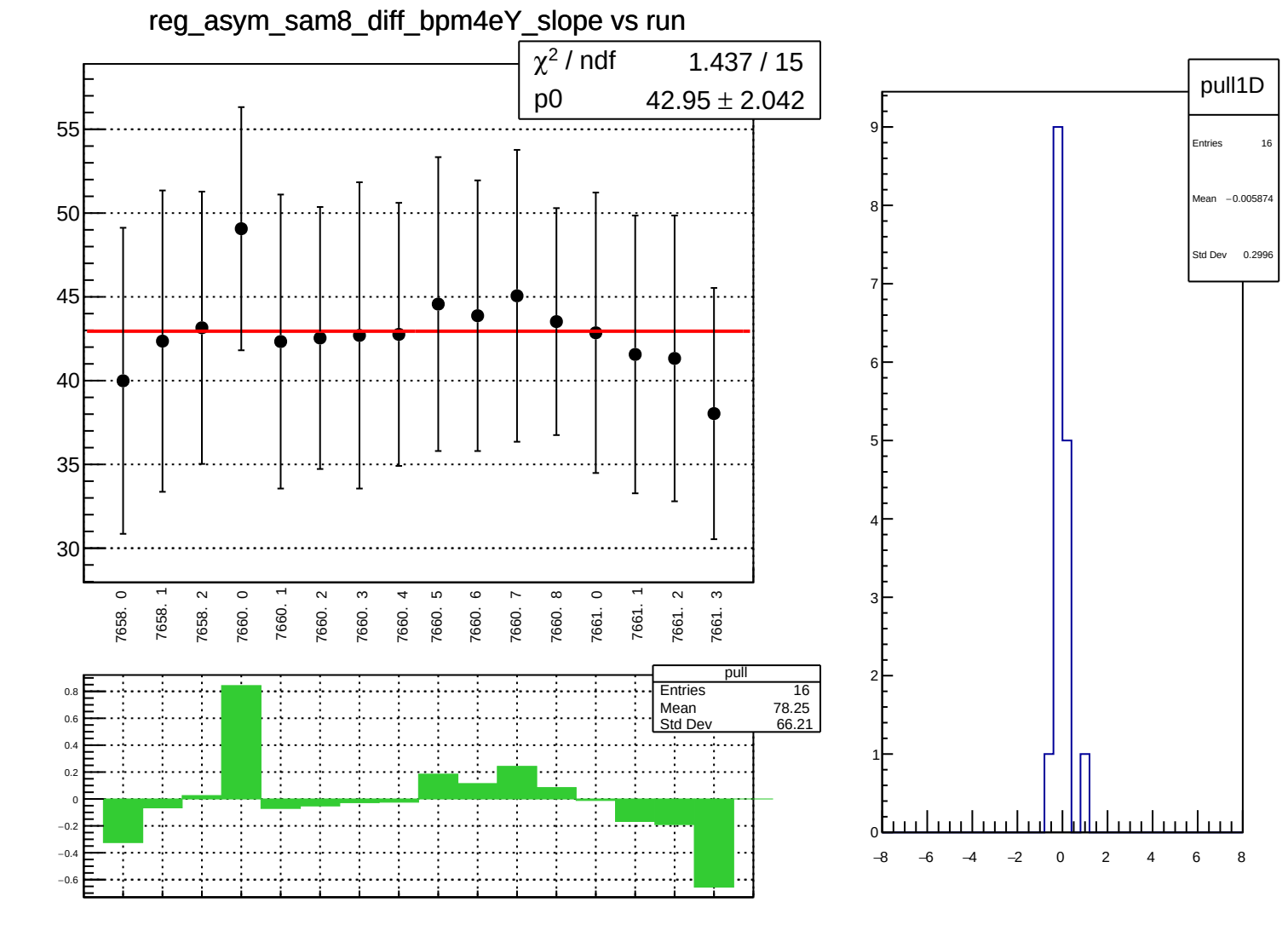

pull1D
Entries 16
Mean 0.001658
Std Dev 0.1766
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

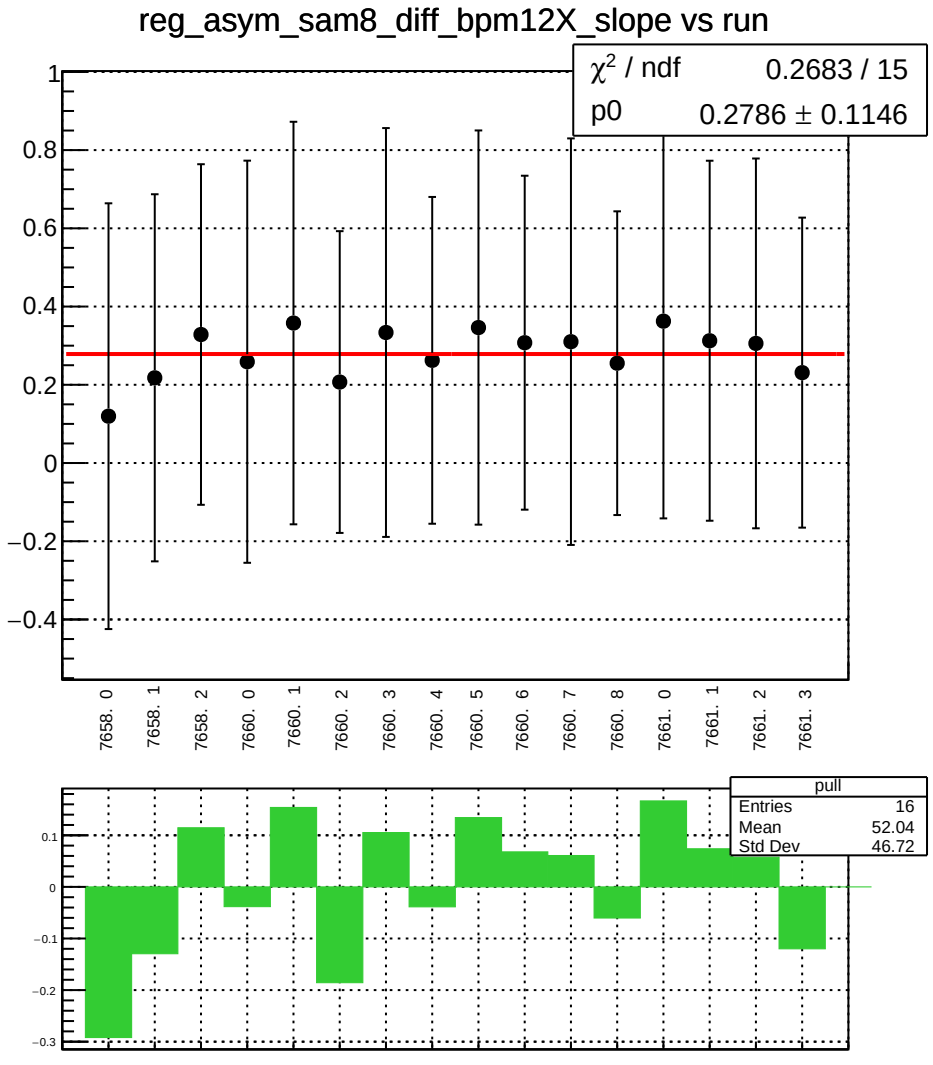

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 1.328 / 15
p0 −45.02 ± 1.401
−35
−40
−45
−50
−55
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 59.22
Std Dev 45.88
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

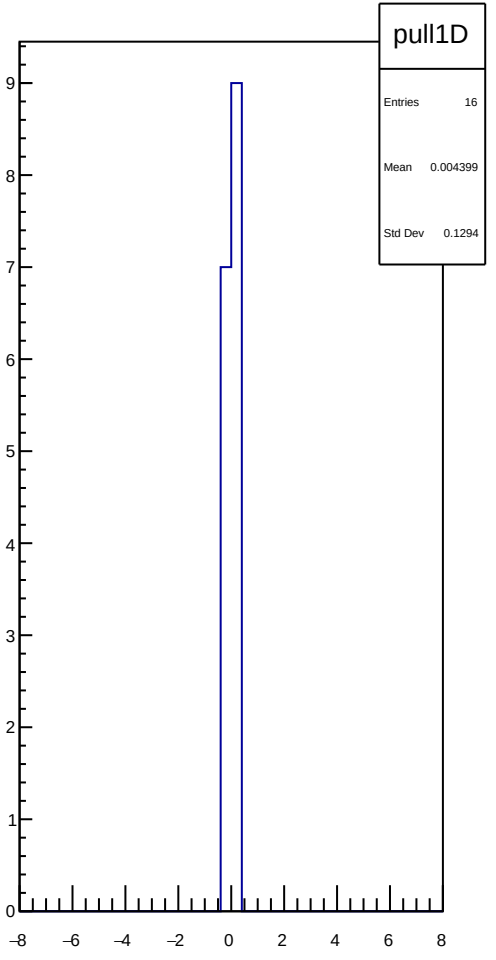

pull1D
Entries 16
Mean 0.006395
Std Dev 0.288
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

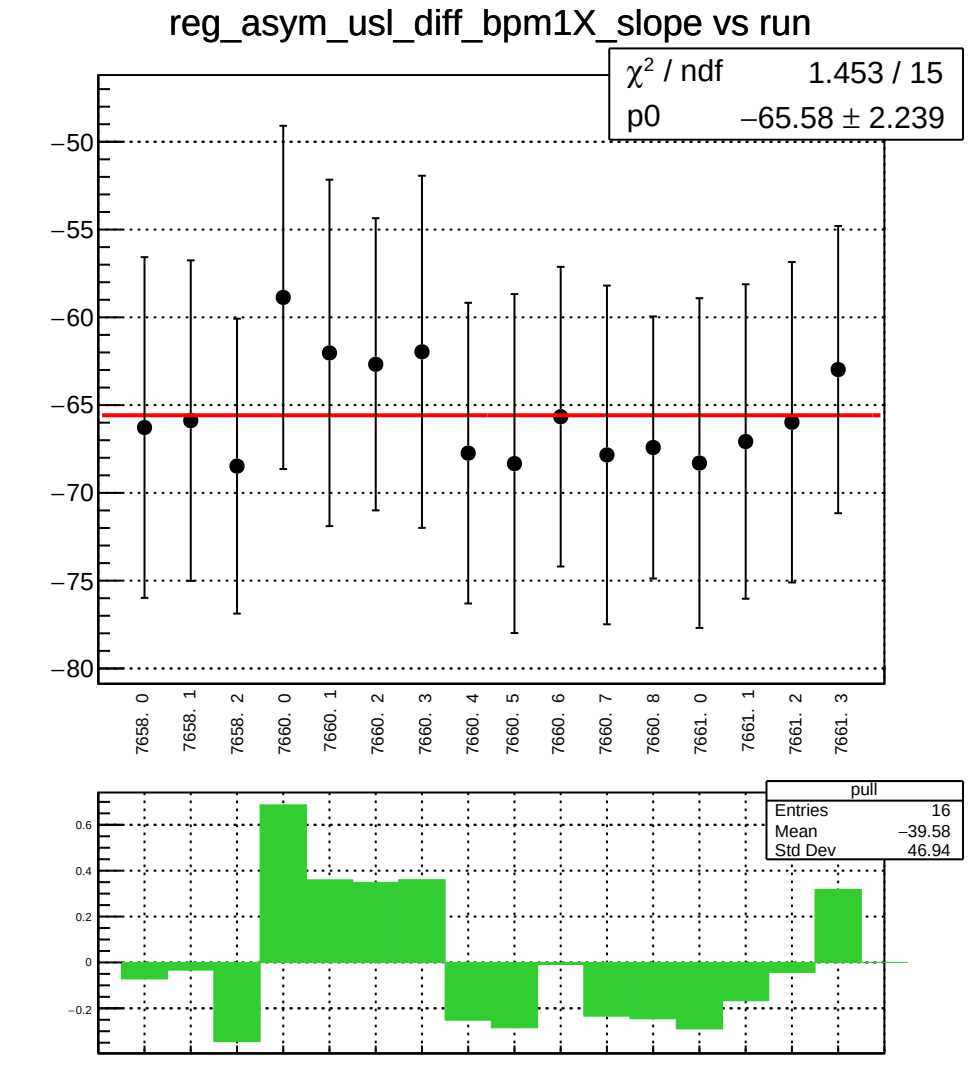

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 0.5841 / 15
p0 −51.03 ± 0.7135
−47
−48
−49
−50
−51
−52
−53
−54
−55
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 14.58
Std Dev 8.77
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2

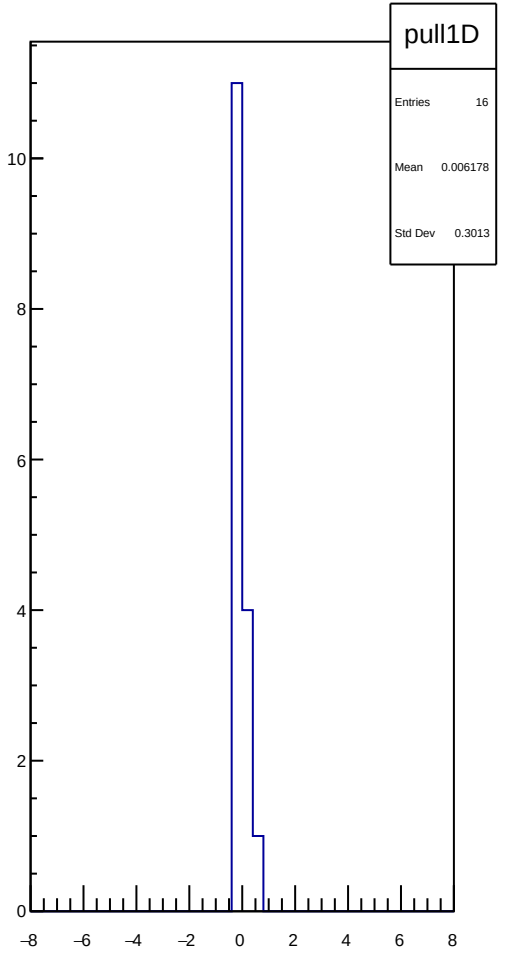

pull1D
Entries 16
Mean −0.007052
Std Dev 0.1909
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

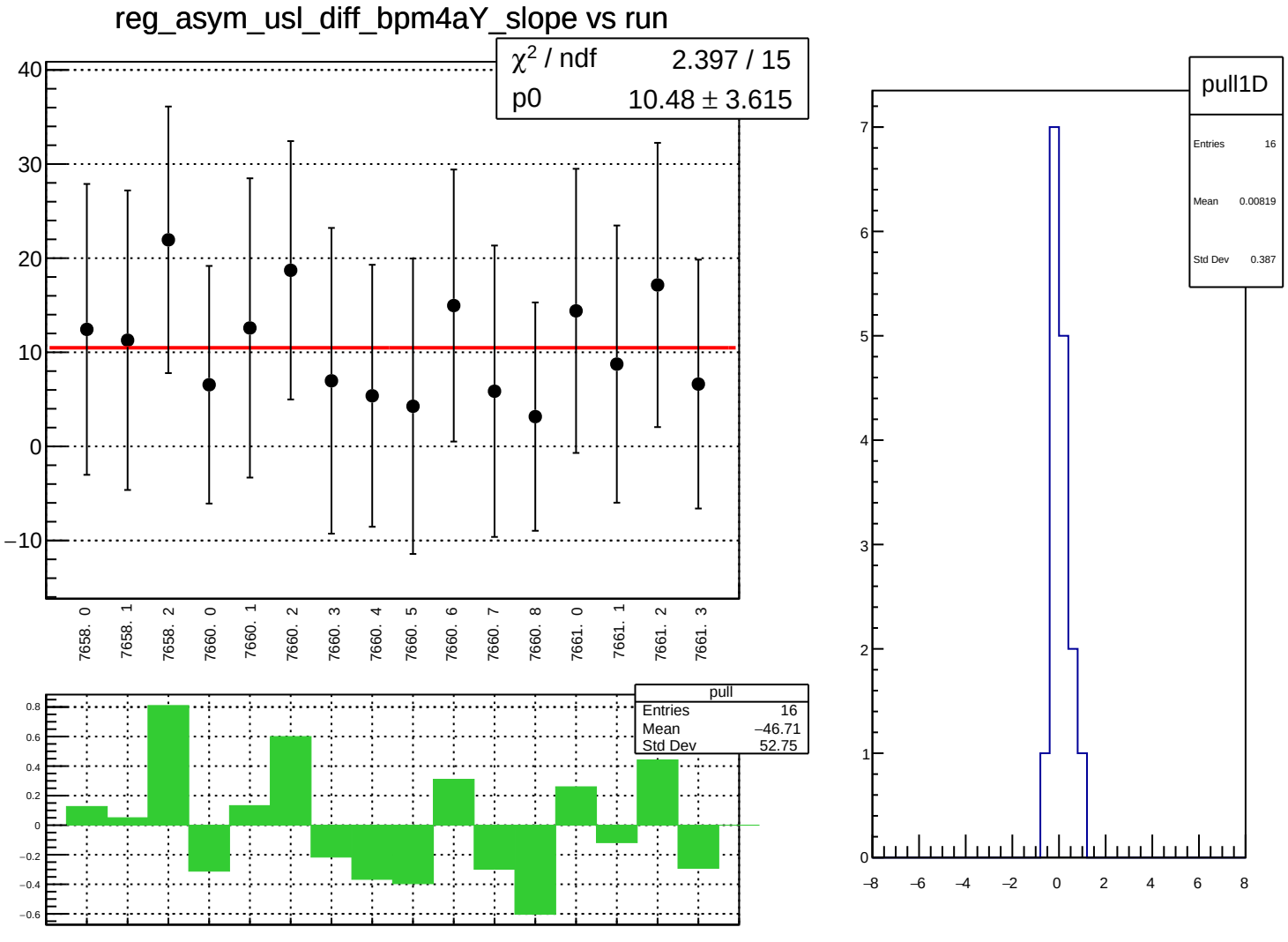

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 1.437 / 15
p0 42.95 ± 2.042
55
50
45
40
35
30
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 78.25
Std Dev 66.21
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 16
Mean −0.005874
Std Dev 0.2996
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

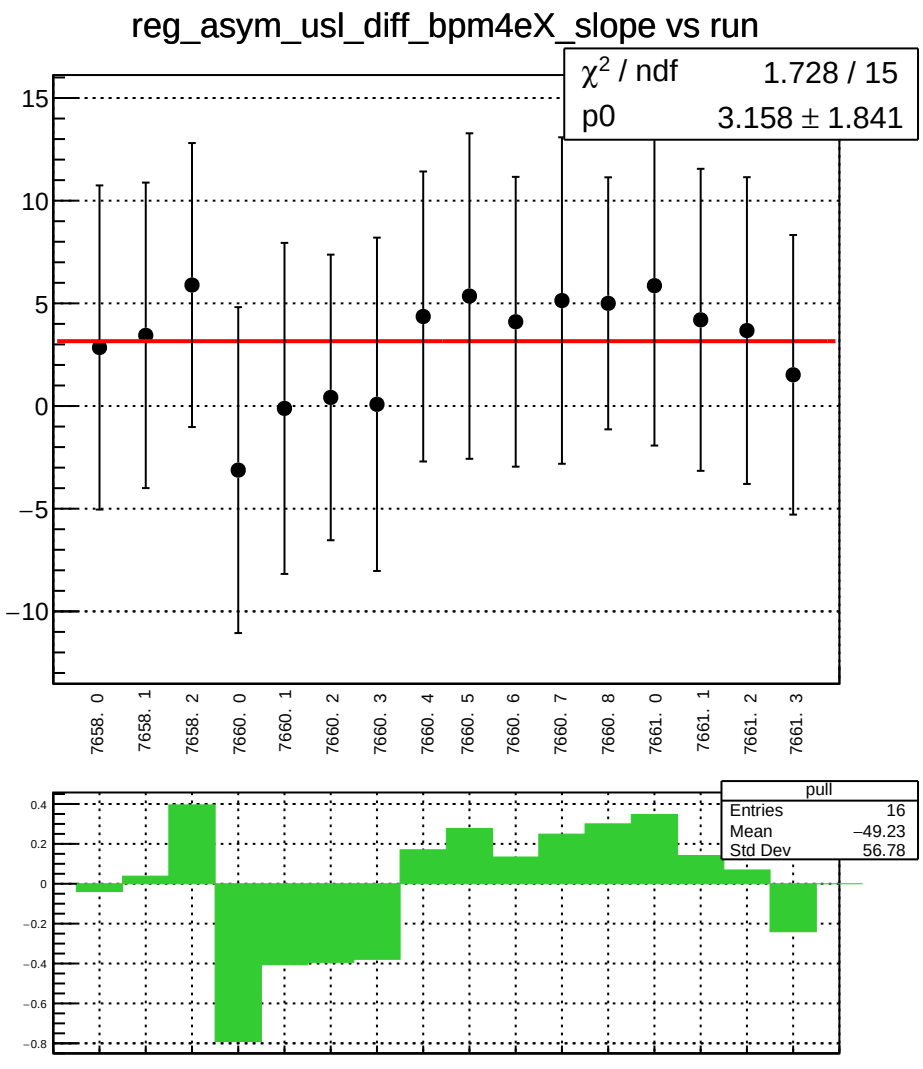

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 0.2683 / 15
p0 0.2786 ± 0.1146
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 52.04
Std Dev 46.72
0.1
0
−0.1
−0.2
−0.3

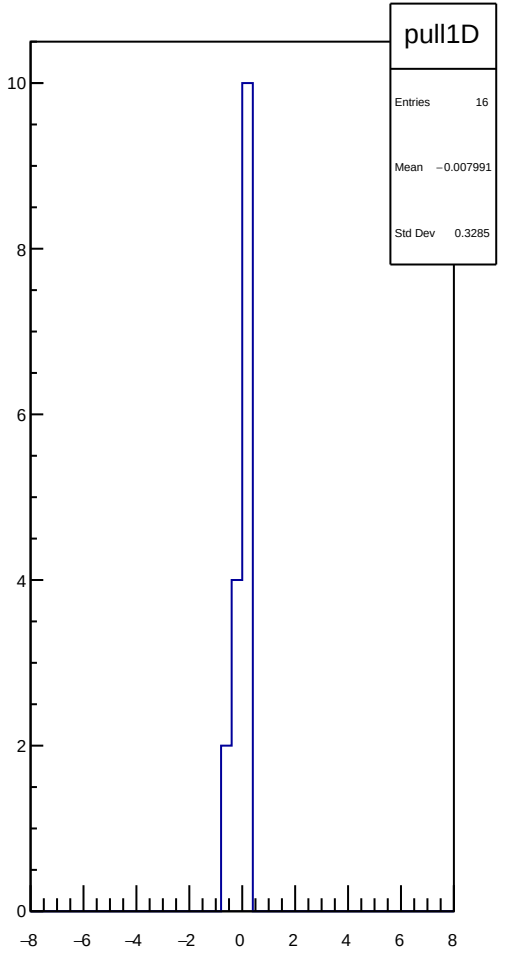

pull1D
Entries 16
Mean 0.004399
Std Dev 0.1294
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

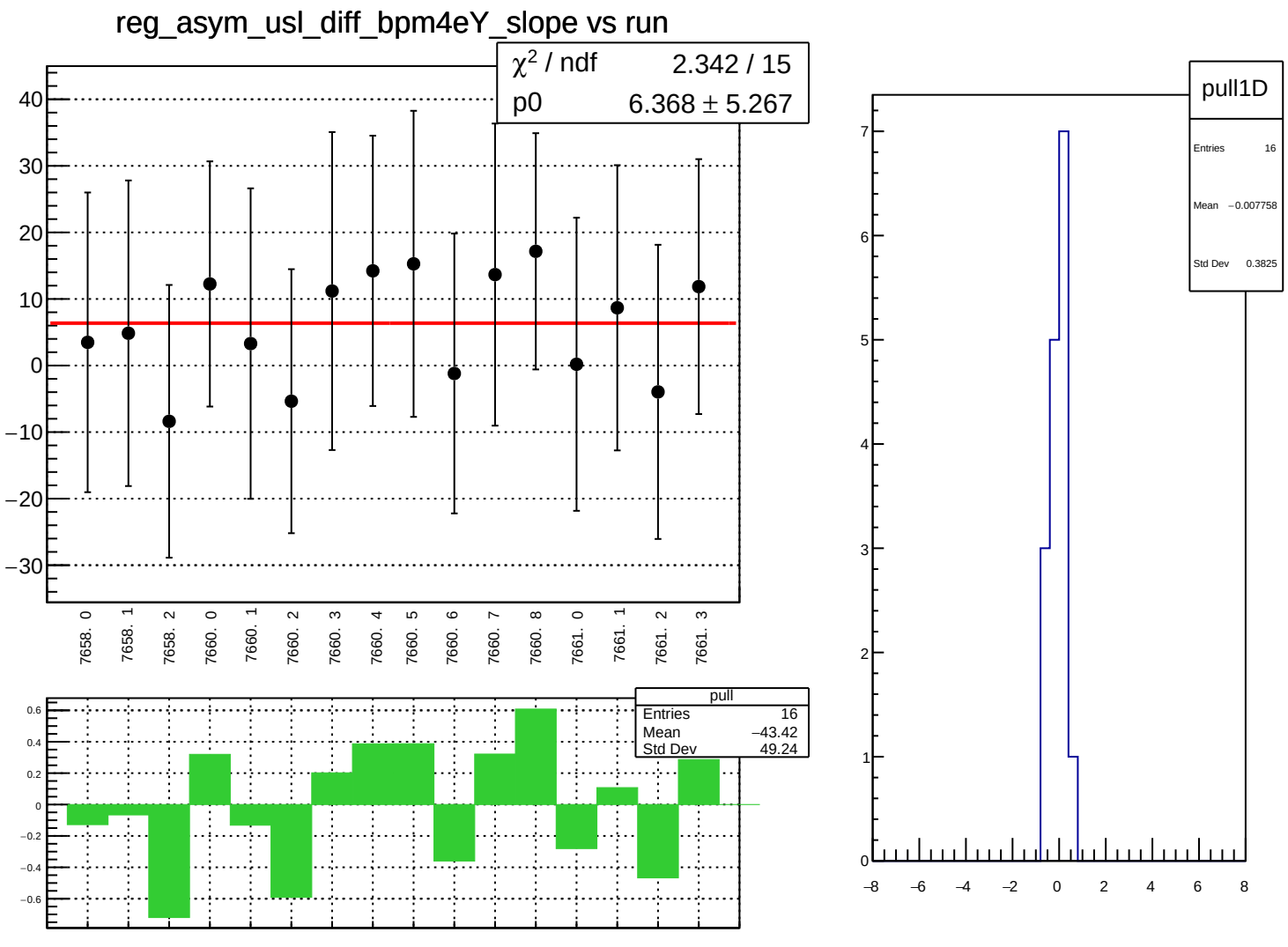

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 1.453 / 15
p0 −65.58 ± 2.239
−50
−55
−60
−65
−70
−75
−80
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −39.58
Std Dev 46.94
0.6
0.4
0.2
0
−0.2

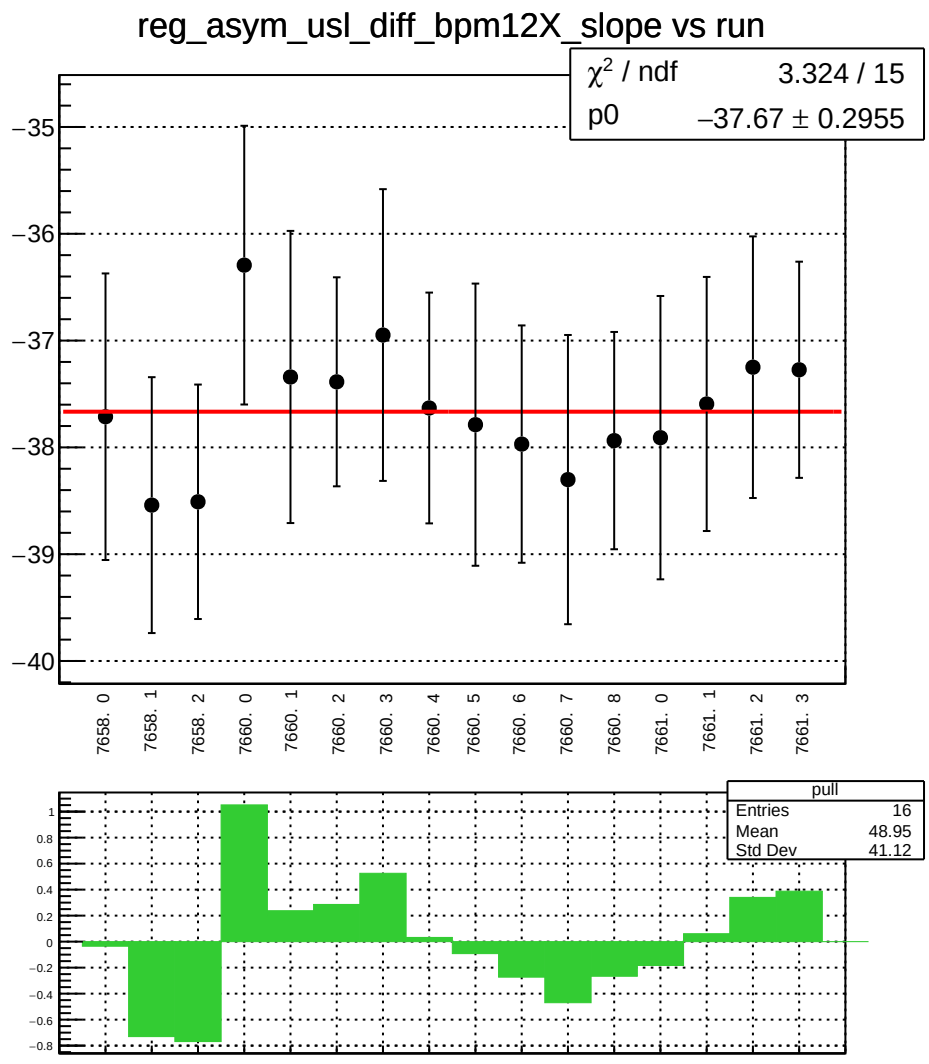

pull1D
Entries 16
Mean 0.006178
Std Dev 0.3013
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

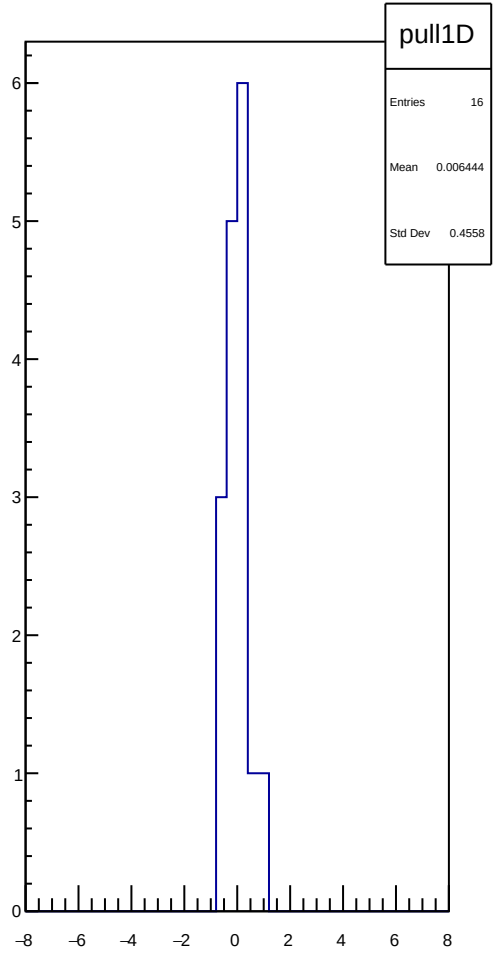

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 2.397 / 15
p0 10.48 ± 3.615
40
30
20
10
0
−10
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −46.71
Std Dev 52.75
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 16
Mean 0.00819
Std Dev 0.387
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

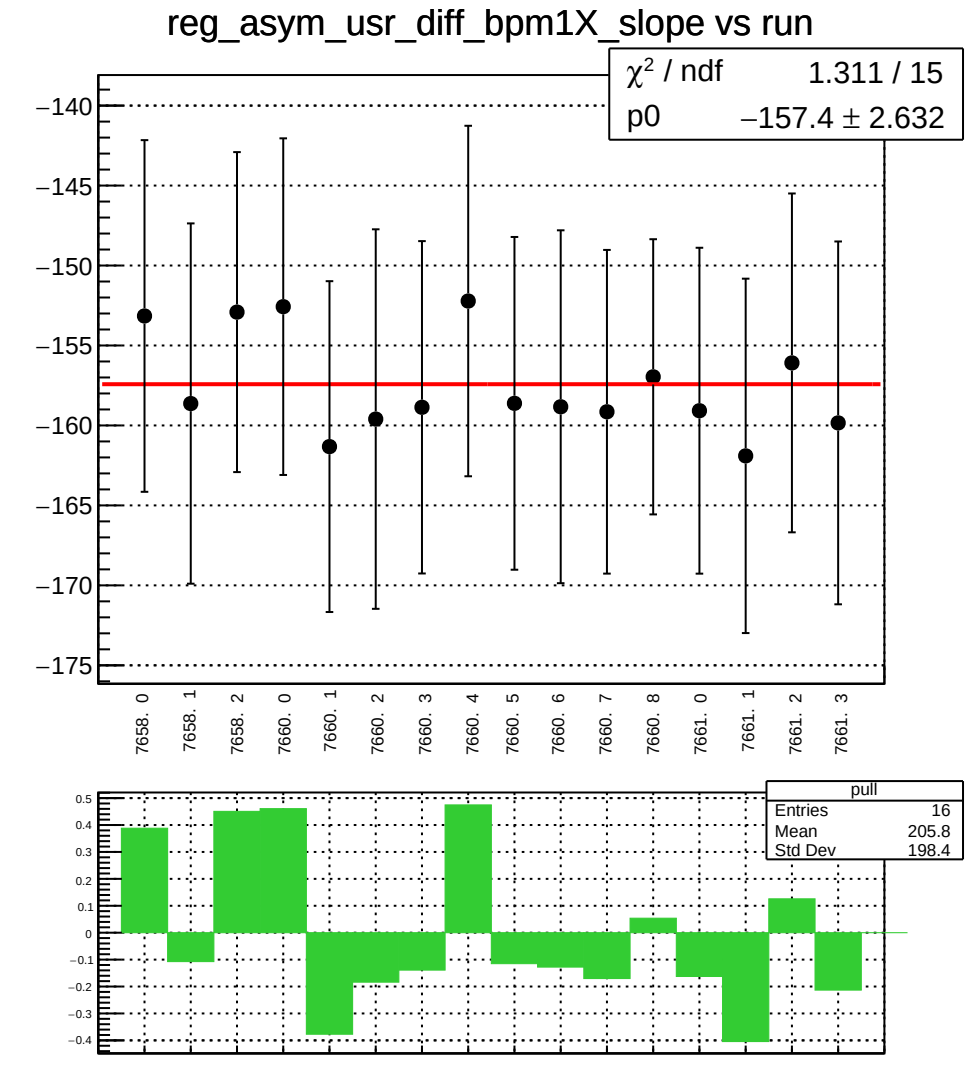

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 1.728 / 15
p0 3.158 ± 1.841
15
10
5
0
−5
−10
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −49.23
Std Dev 56.78
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

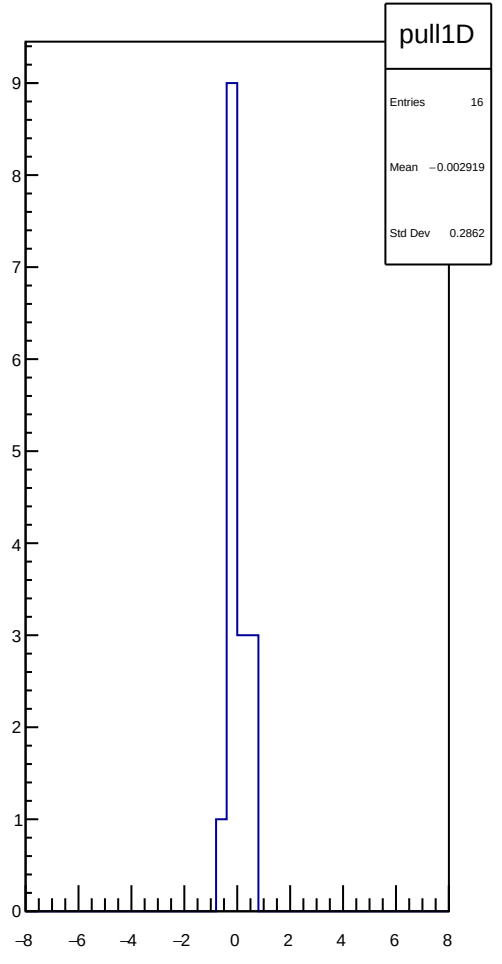

pull1D
Entries 16
Mean −0.007991
Std Dev 0.3285
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

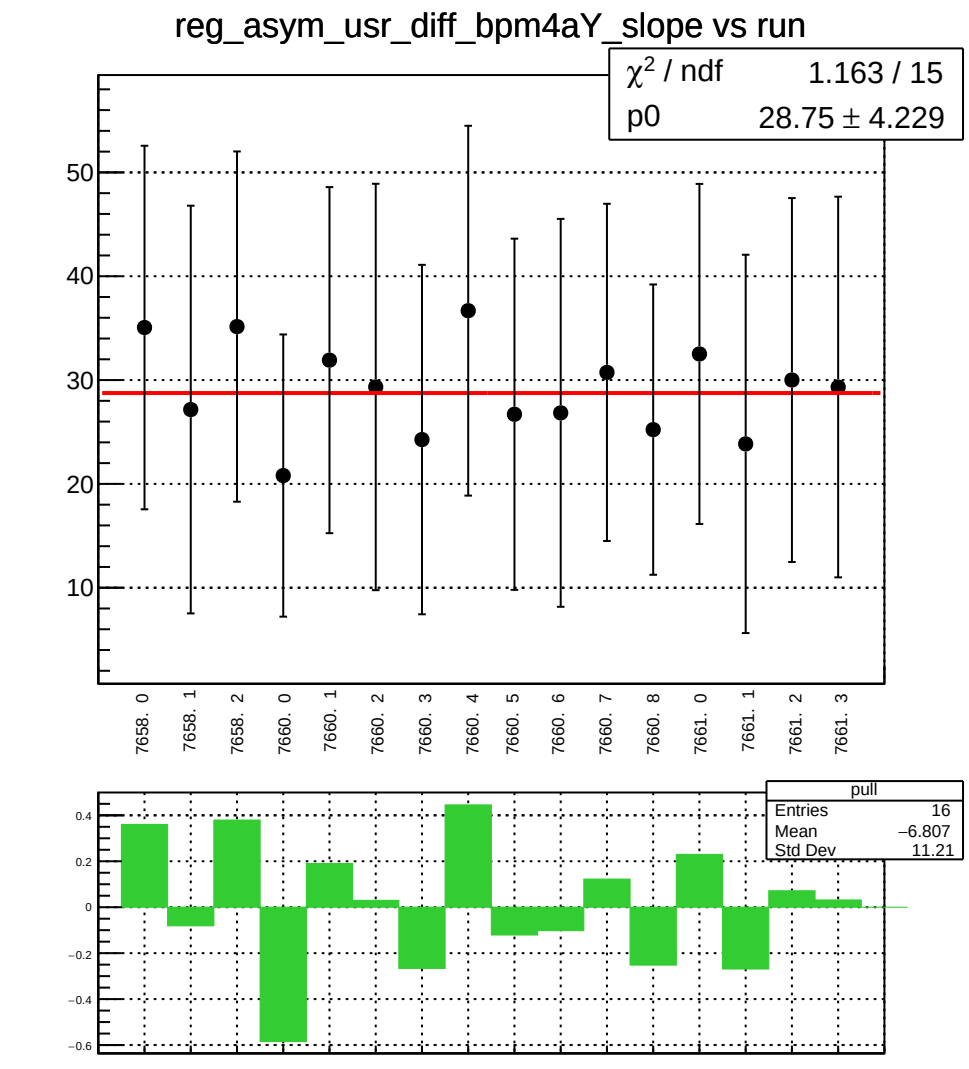

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 2.342 / 15
p0 6.368 ± 5.267
40
30
20
10
0
−10
−20
−30
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −43.42
Std Dev 49.24
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 16
Mean −0.007758
Std Dev 0.3825
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

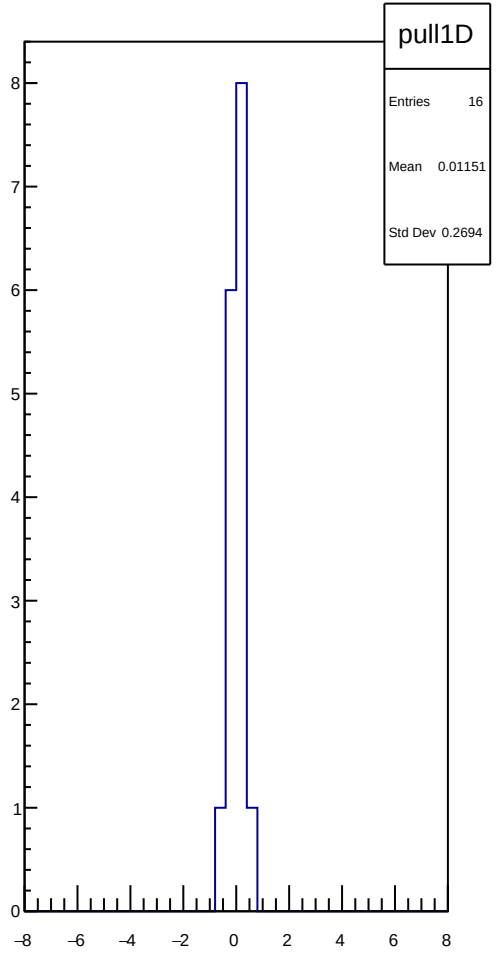

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 3.324 / 15
p0 −37.67 ± 0.2955
−35
−36
−37
−38
−39
−40
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 48.95
Std Dev 41.12
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

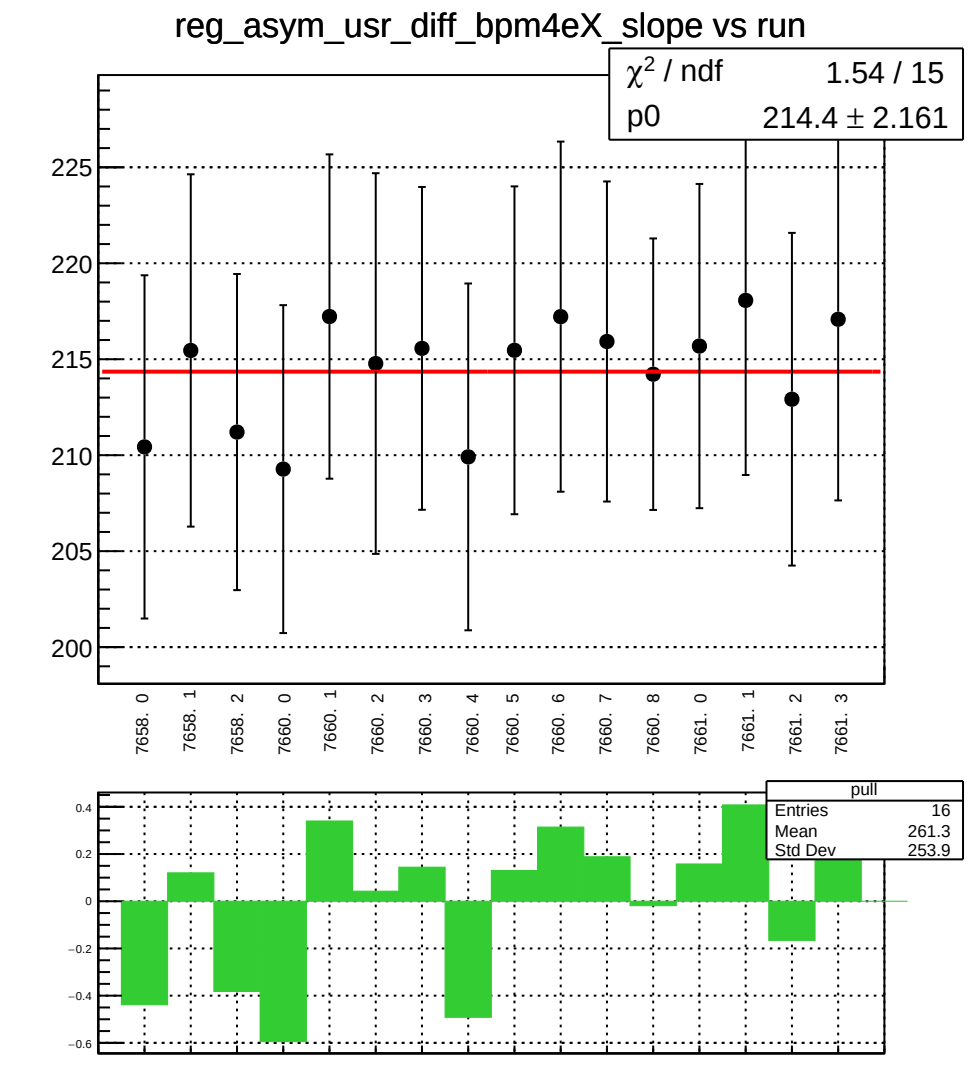

pull1D
Entries 16
Mean 0.006444
Std Dev 0.4558
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

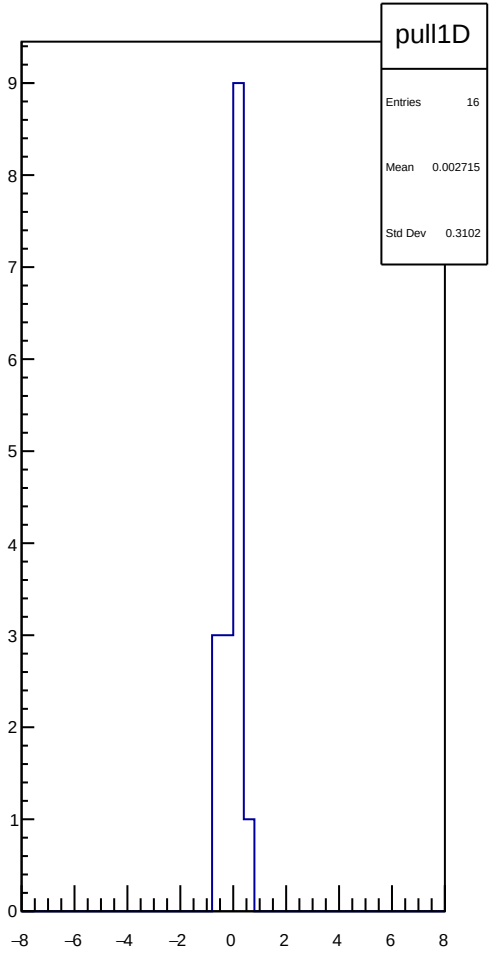

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 1.311 / 15
p0 −157.4 ± 2.632
−140
−145
−150
−155
−160
−165
−170
−175
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 205.8
Std Dev 198.4
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

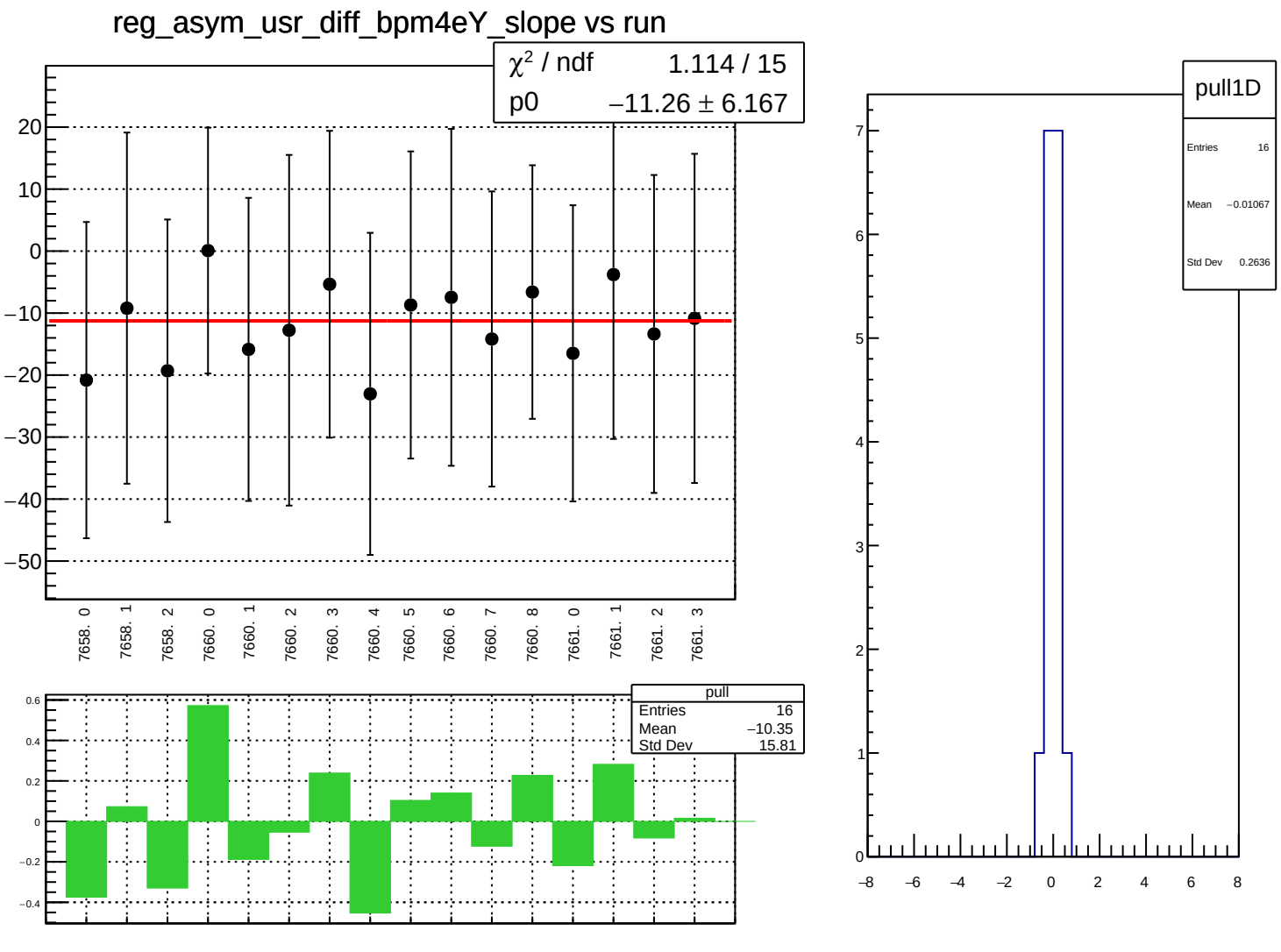

pull1D
Entries 16
Mean −0.002919
Std Dev 0.2862
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

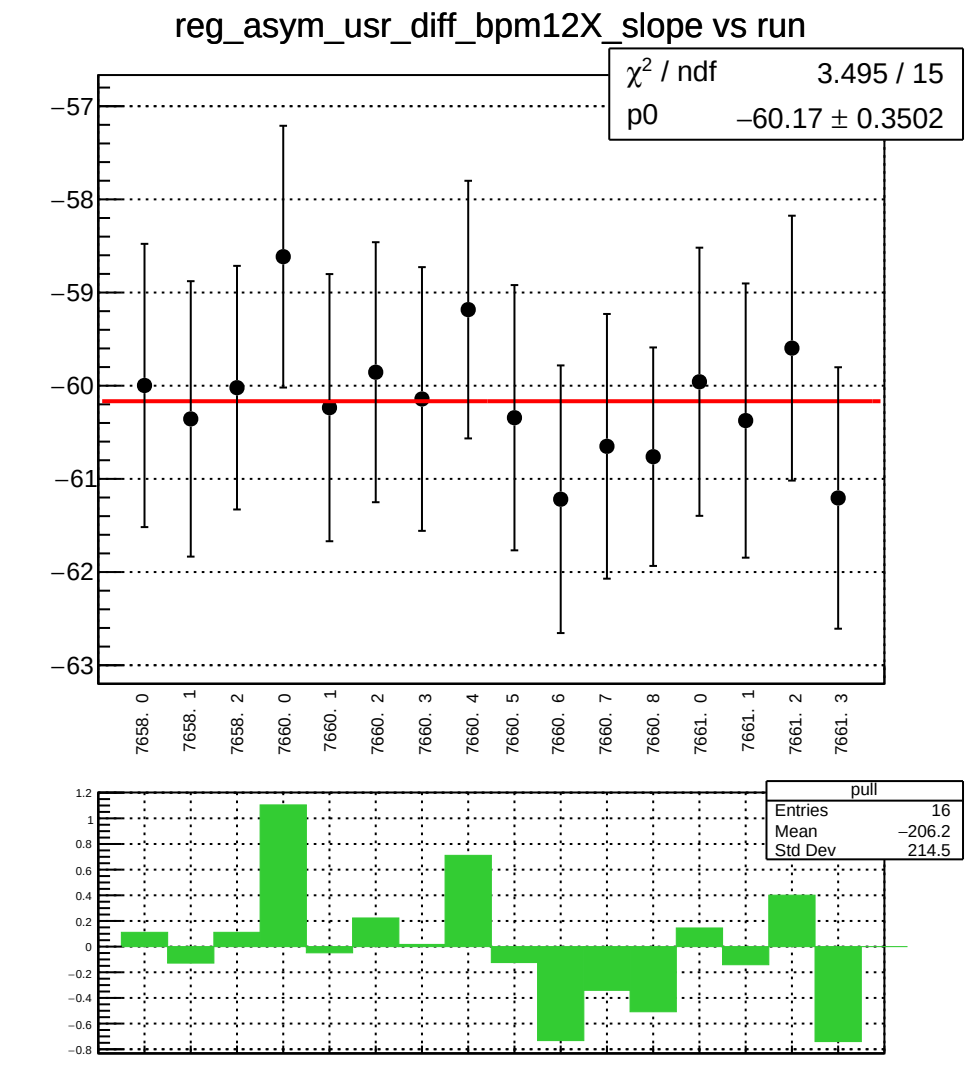

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 1.163 / 15
p0 28.75 ± 4.229
50
40
30
20
10
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −6.807
Std Dev 11.21
0.4
0.2
0
−0.2
−0.4
−0.6

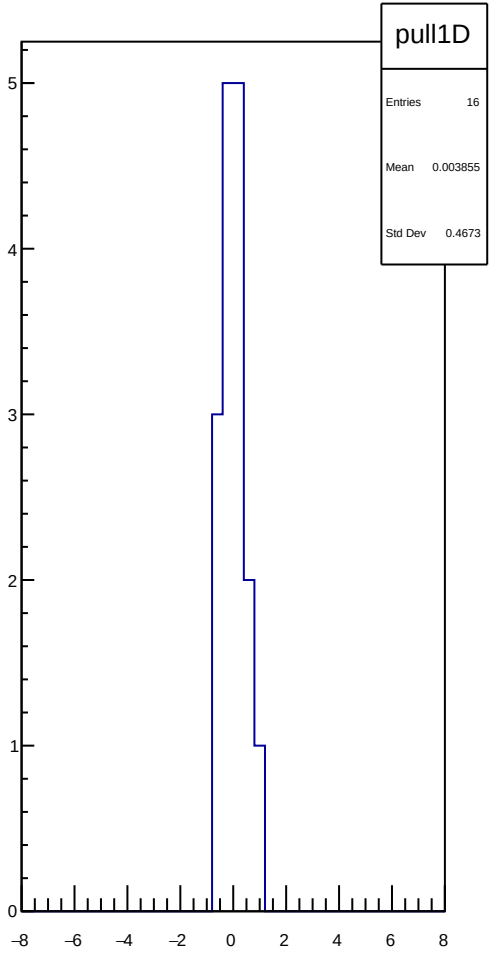

pull1D
Entries 16
Mean 0.01151
Std Dev 0.2694
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

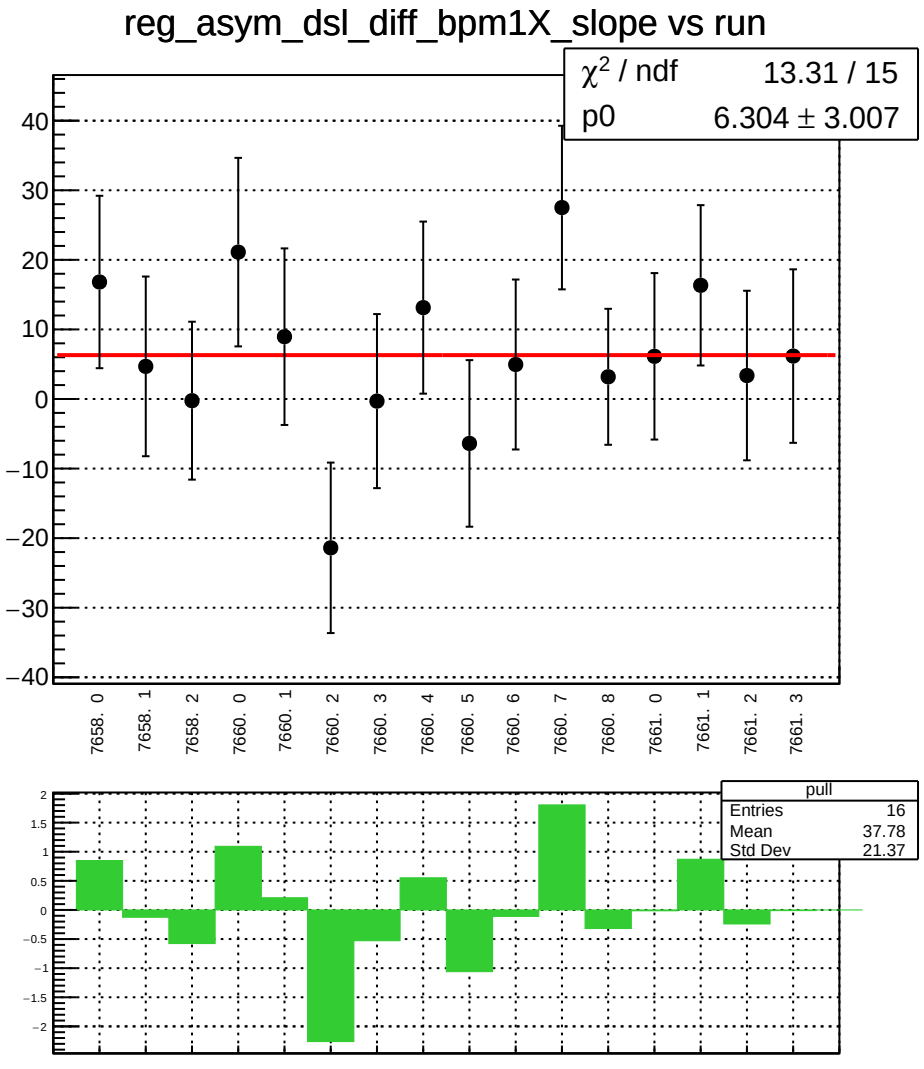

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 1.54 / 15
p0 214.4 ± 2.161
225
220
215
210
205
200
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 261.3
Std Dev 253.9
0.4
0.2
0
−0.2
−0.4
−0.6

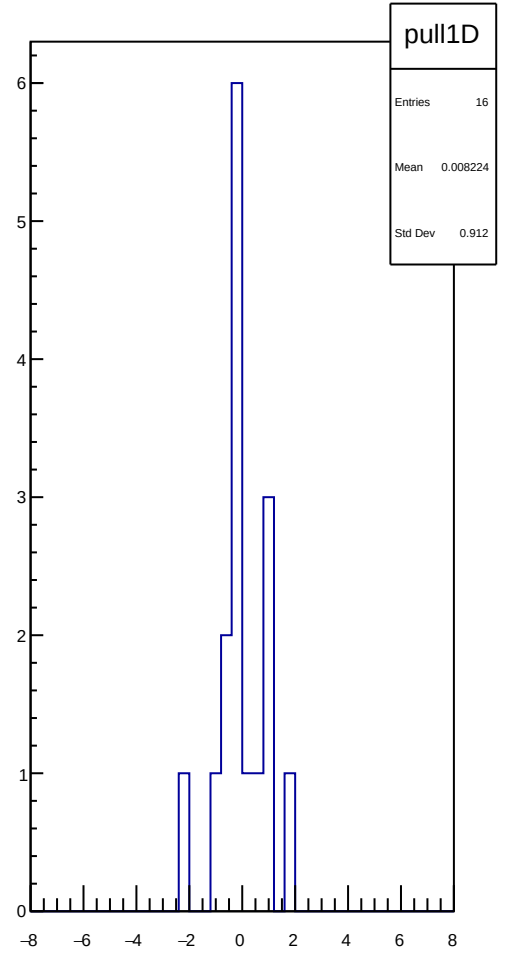

pull1D
Entries 16
Mean 0.002715
Std Dev 0.3102
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

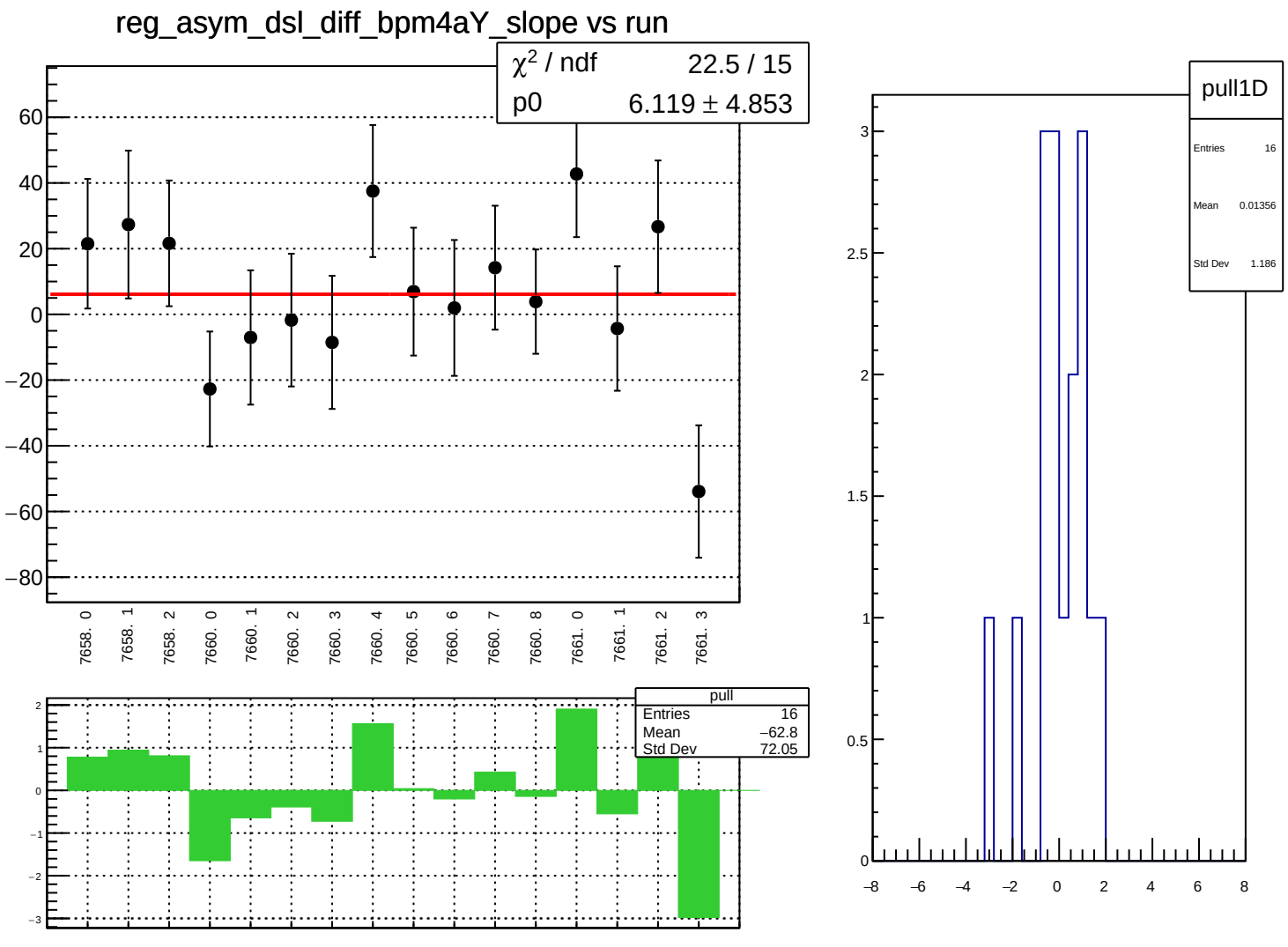

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 1.114 / 15
p0 −11.26 ± 6.167
20
10
0
−10
−20
−30
−40
−50
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −10.35
Std Dev 15.81
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 16
Mean −0.01067
Std Dev 0.2636
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

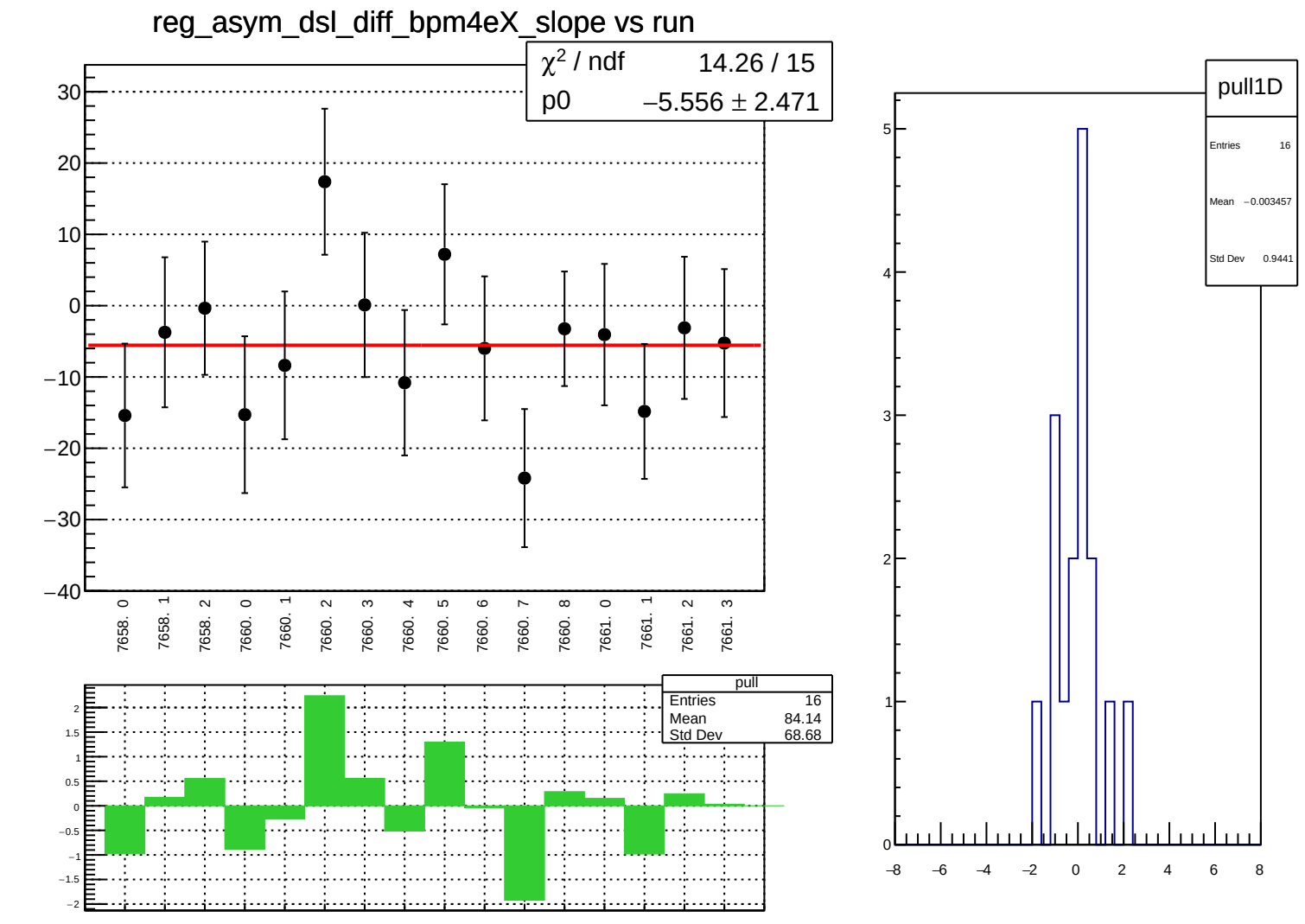

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 3.495 / 15
p0 −60.17 ± 0.3502
−57
−58
−59
−60
−61
−62
−63
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −206.2
Std Dev 214.5
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

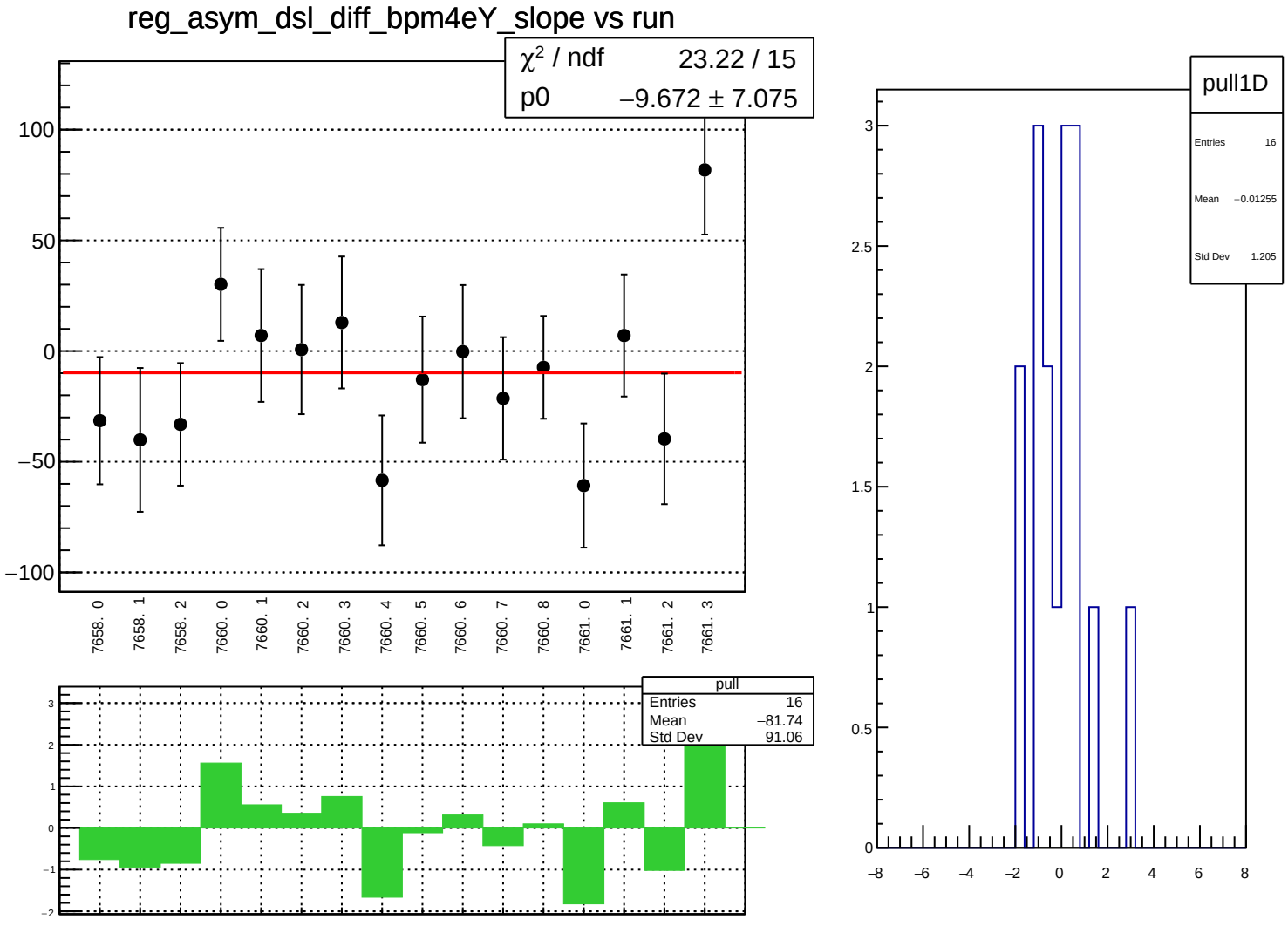

pull1D
Entries 16
Mean 0.003855
Std Dev 0.4673
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

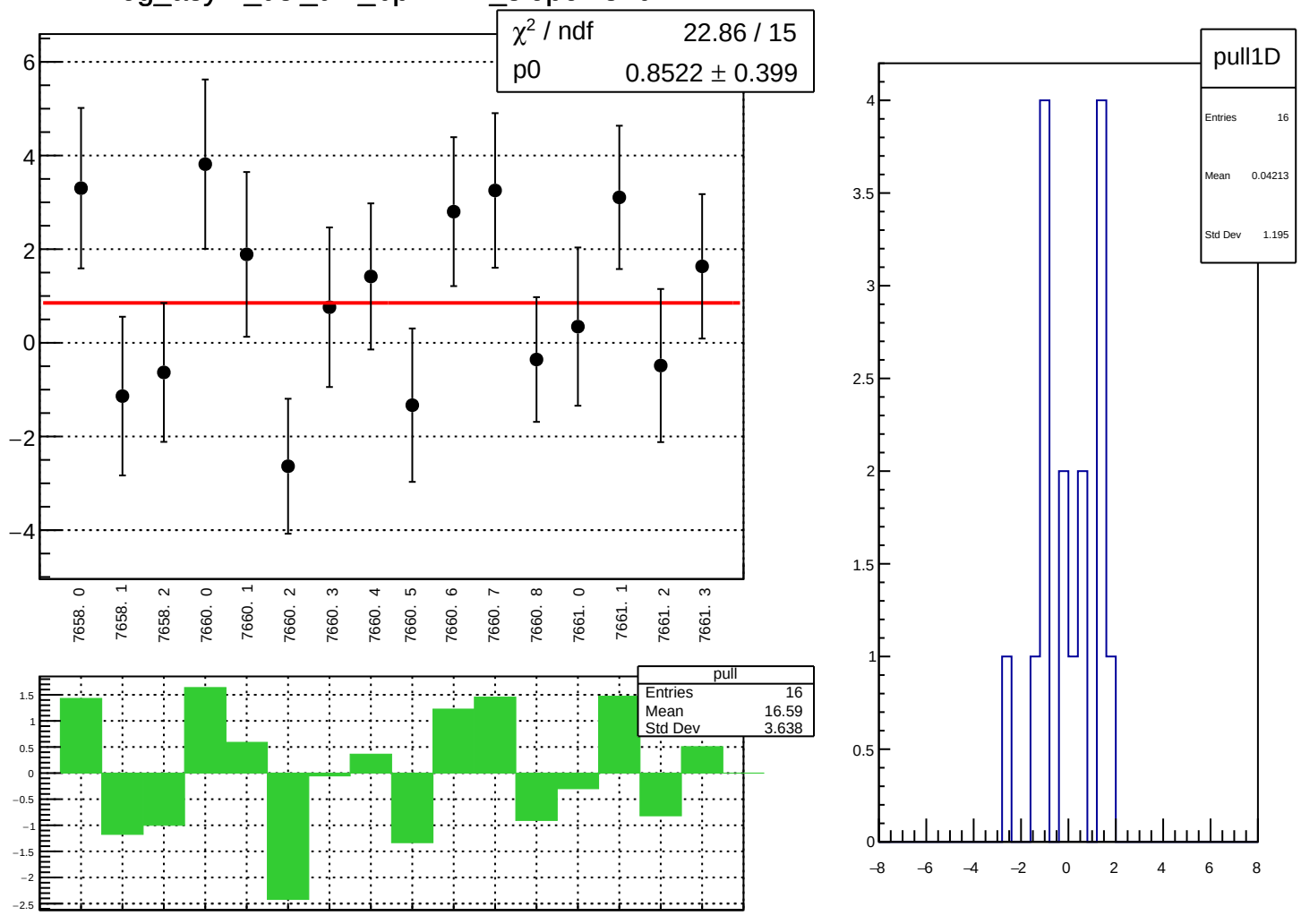

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 13.31 / 15
p0 6.304 ± 3.007
40
30
20
10
0
−10
−20
−30
−40
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 37.78
Std Dev 21.37
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

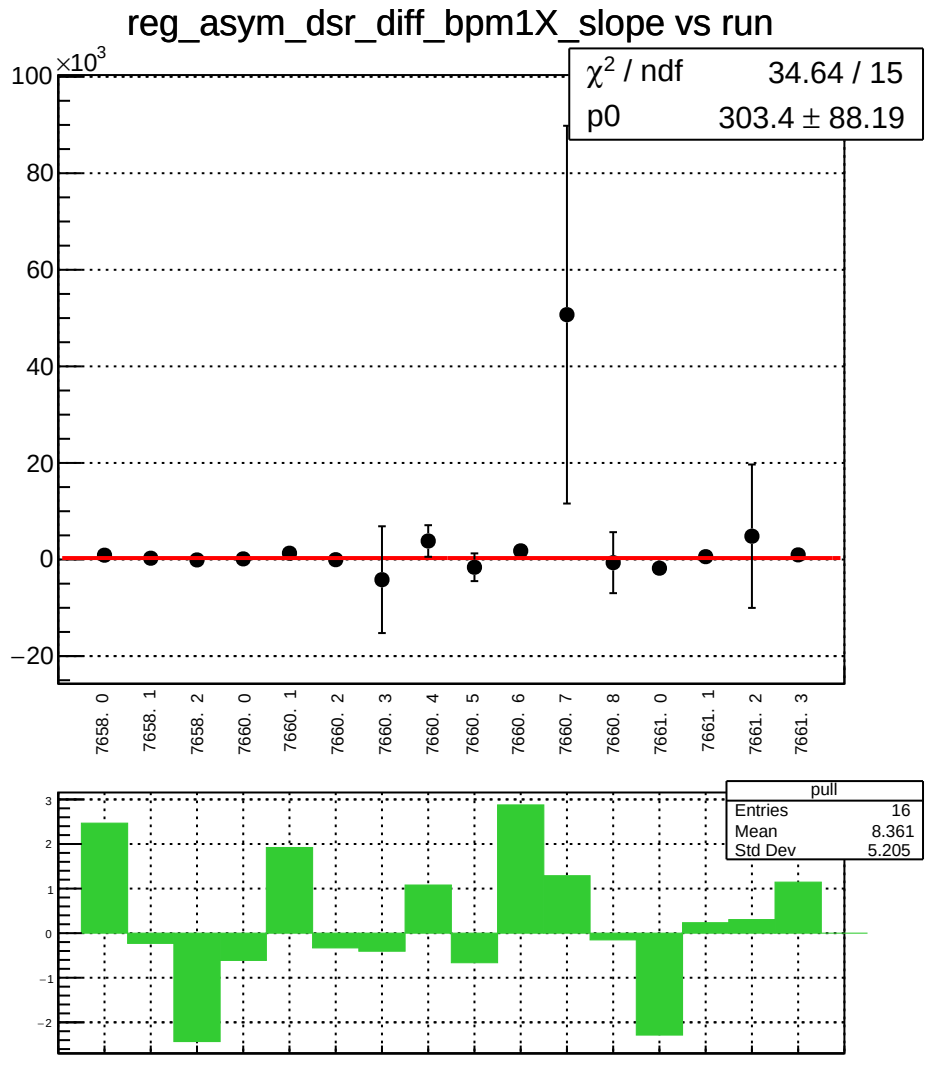

pull1D
Entries 16
Mean 0.008224
Std Dev 0.912
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

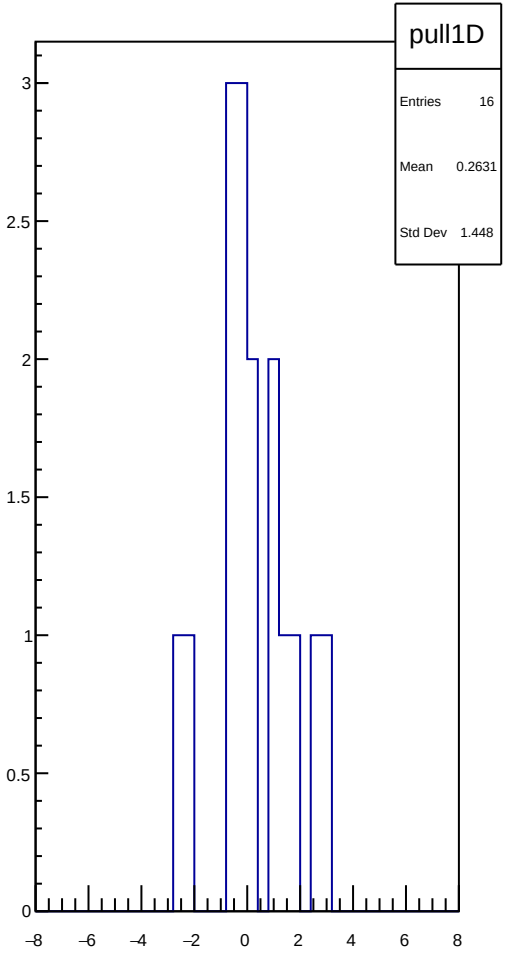

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 22.5 / 15
p0 6.119 ± 4.853
60
40
20
0
−20
−40
−60
−80
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −62.8
Std Dev 72.05
2
1
0
−1
−2
−3
pull1D
Entries 16
Mean 0.01356
Std Dev 1.186
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

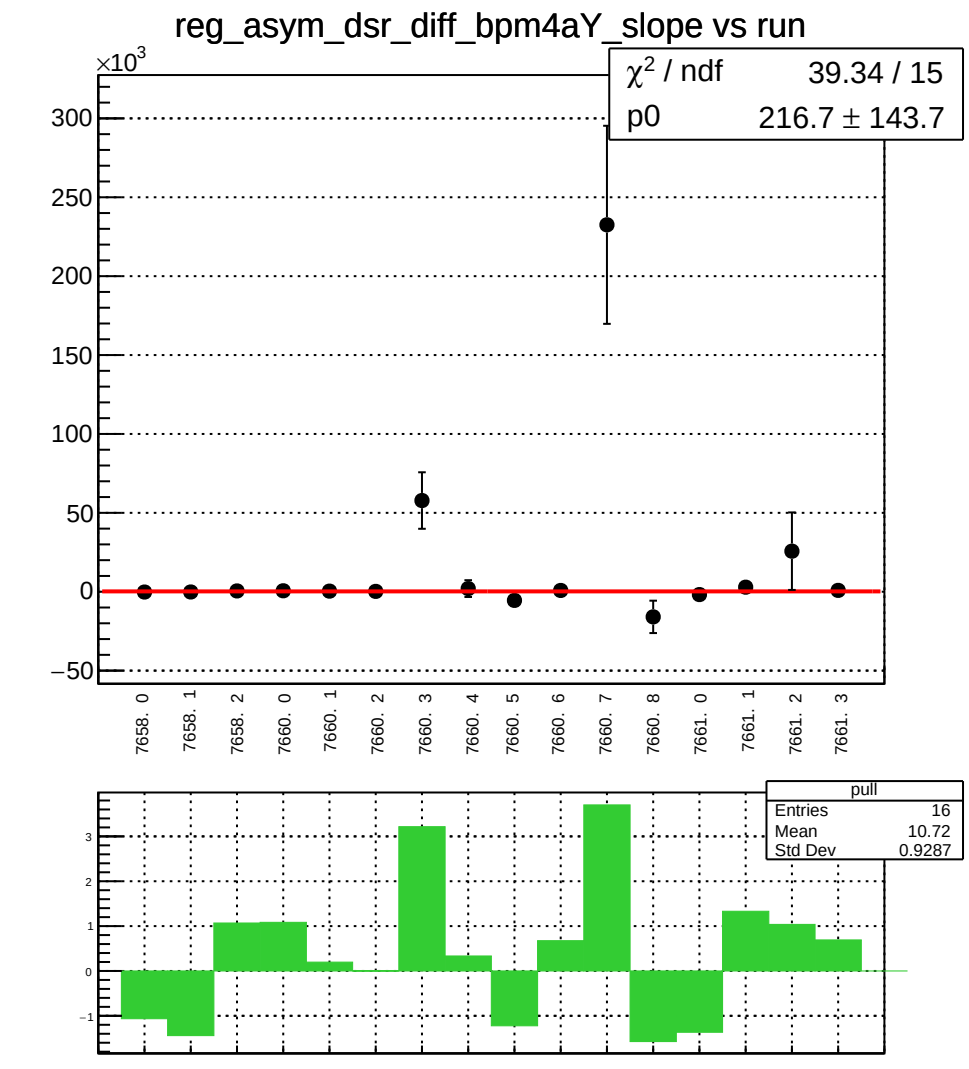

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 14.26 / 15
p0 −5.556 ± 2.471
30
20
10
0
−10
−20
−30
−40
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 84.14
Std Dev 68.68
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 16
Mean −0.003457
Std Dev 0.9441
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

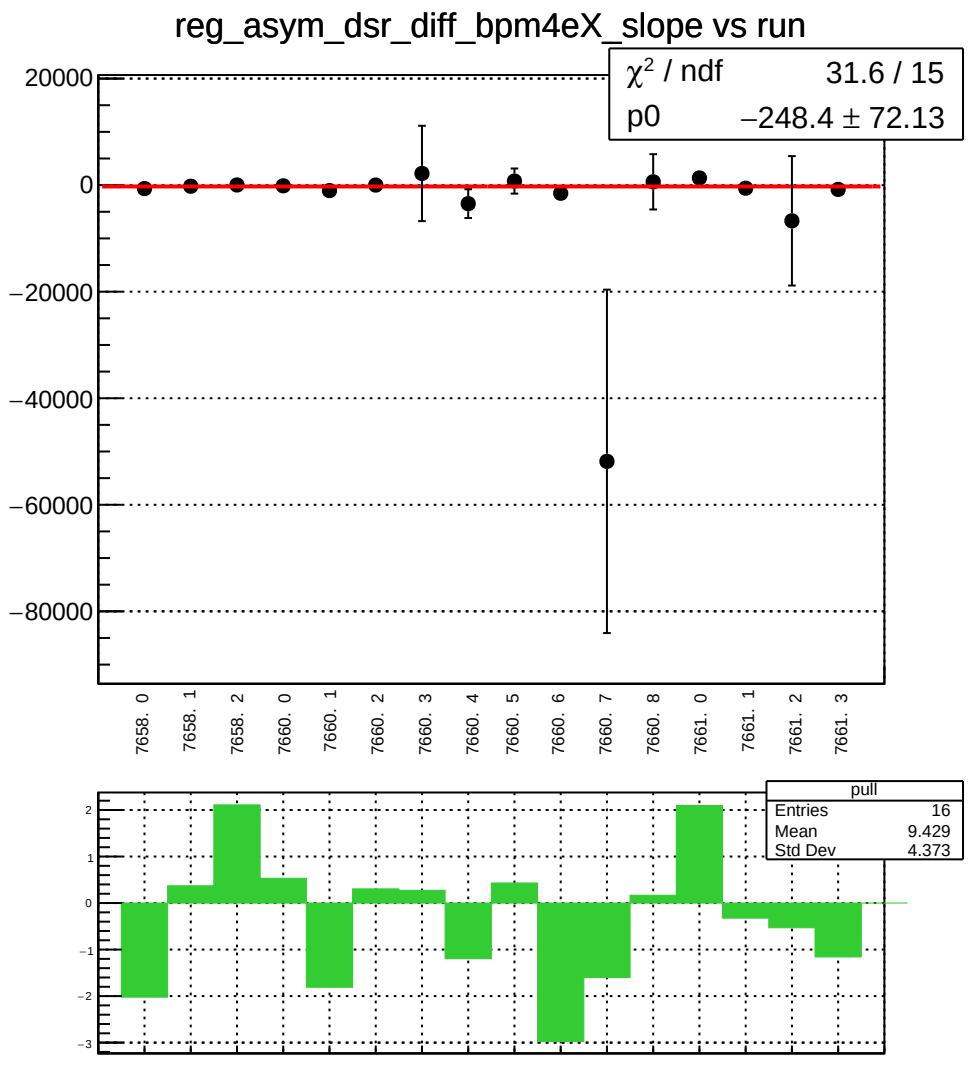

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 23.22 / 15
p0 −9.672 ± 7.075
100
50
0
−50
−100
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −81.74
Std Dev 91.06
3
2
1
0
−1
−2
pull1D
Entries 16
Mean −0.01255
Std Dev 1.205
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

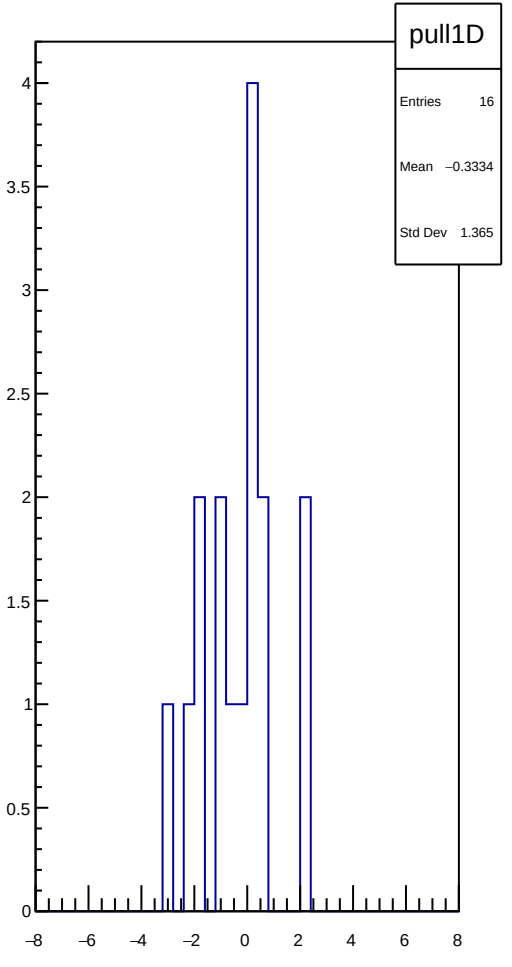

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 22.86 / 15
p0 0.8522 ± 0.399
6
4
2
0
−2
−4
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 16.59
Std Dev 3.638
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 16
Mean 0.04213
Std Dev 1.195
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

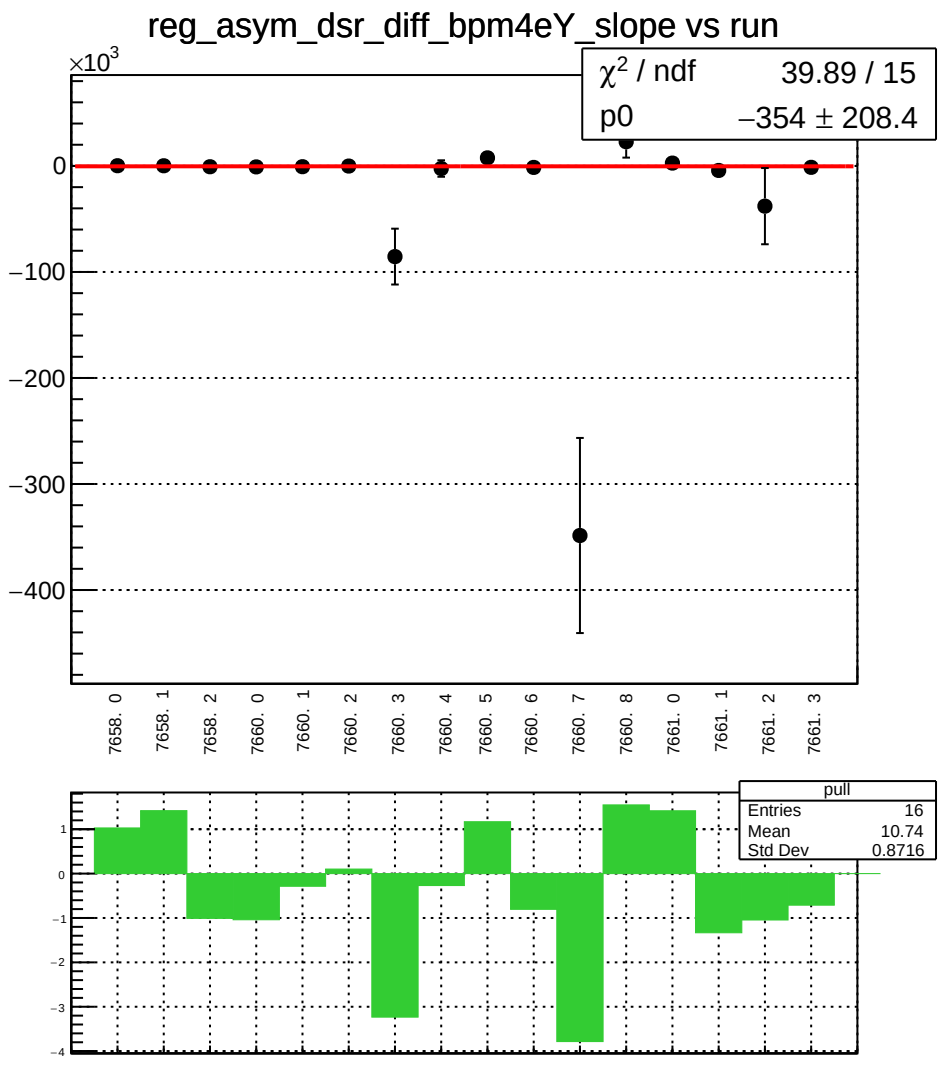

reg_asym_dsr_diff_bpm1X_slope vs run
×10^3
χ² / ndf 34.64 / 15
p0 303.4 ± 88.19
100
80
60
40
20
0
−20
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 8.361
Std Dev 5.205
3
2
1
0
−1
−2

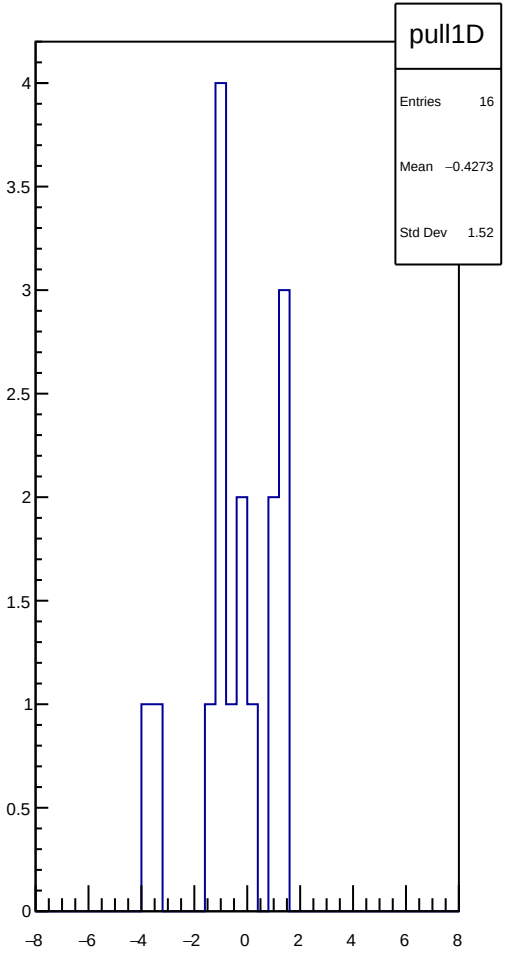

pull1D
Entries 16
Mean 0.2631
Std Dev 1.448
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

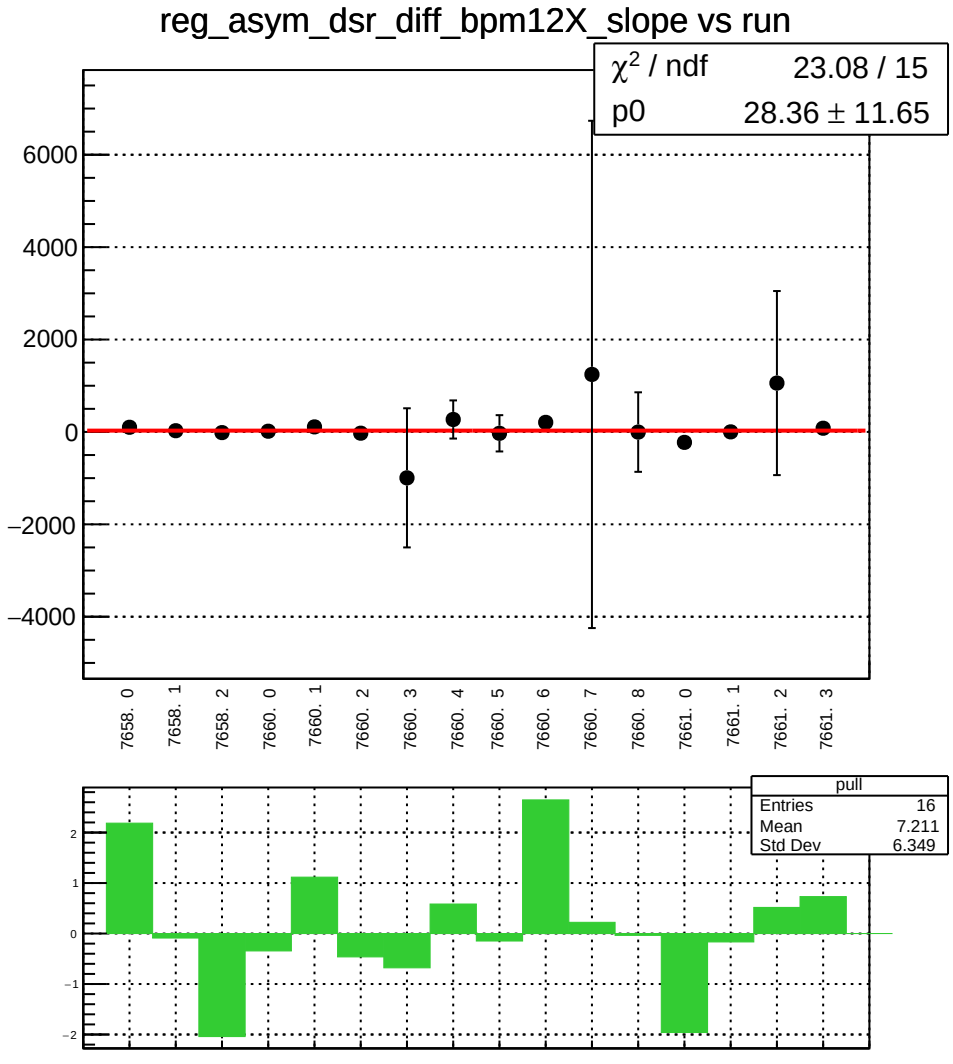

reg_asym_dsr_diff_bpm4aY_slope vs run
×10^3
χ^2 / ndf 39.34 / 15
p0 216.7 ± 143.7
300
250
200
150
100
50
0
−50
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 10.72
Std Dev 0.9287
3
2
1
0
−1
pull1D
Entries 16
Mean 0.4169
Std Dev 1.512
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

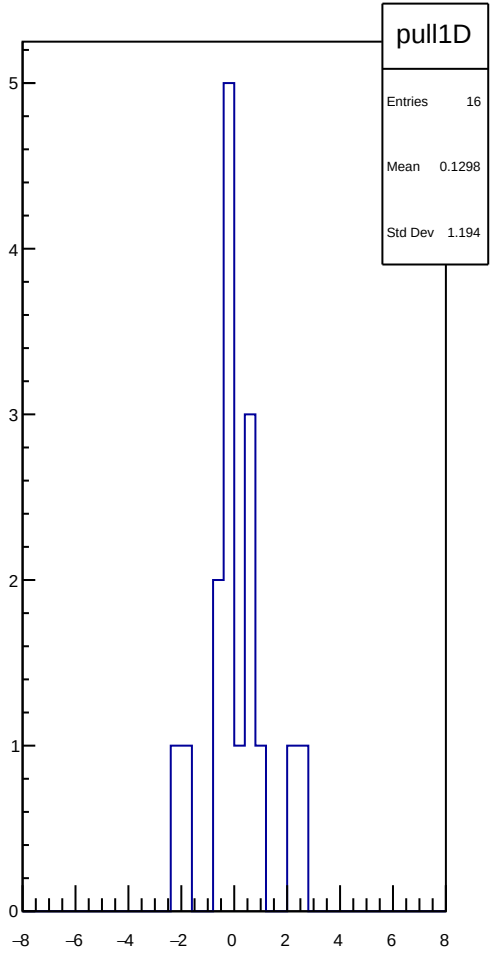

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 31.6 / 15
p0 −248.4 ± 72.13
20000
0
−20000
−40000
−60000
−80000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 9.429
Std Dev 4.373
2
1
0
−1
−2
−3

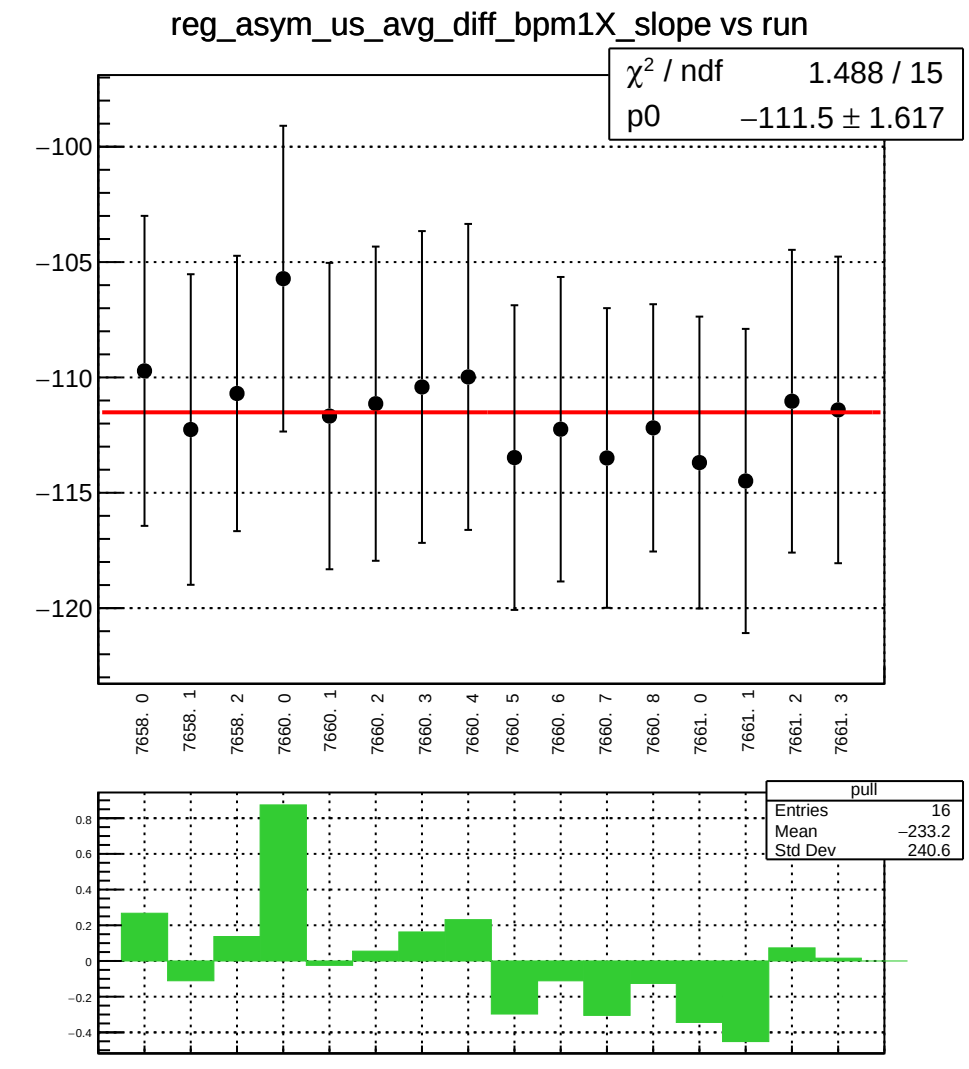

pull1D
Entries 16
Mean −0.3334
Std Dev 1.365
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

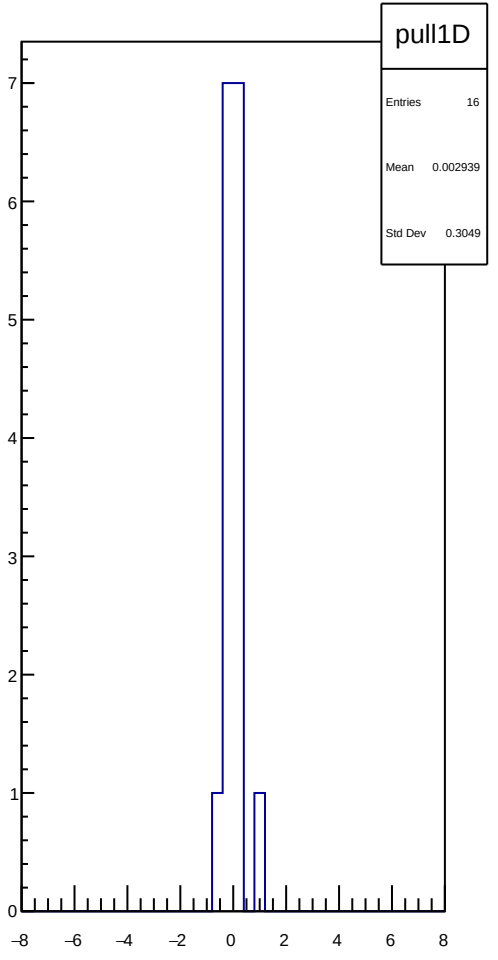

reg_asym_dsr_diff_bpm4eY_slope vs run
×10^3
χ^2 / ndf 39.89 / 15
p0 −354 ± 208.4
0
−100
−200
−300
−400
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 10.74
Std Dev 0.8716
1
0
−1
−2
−3
−4

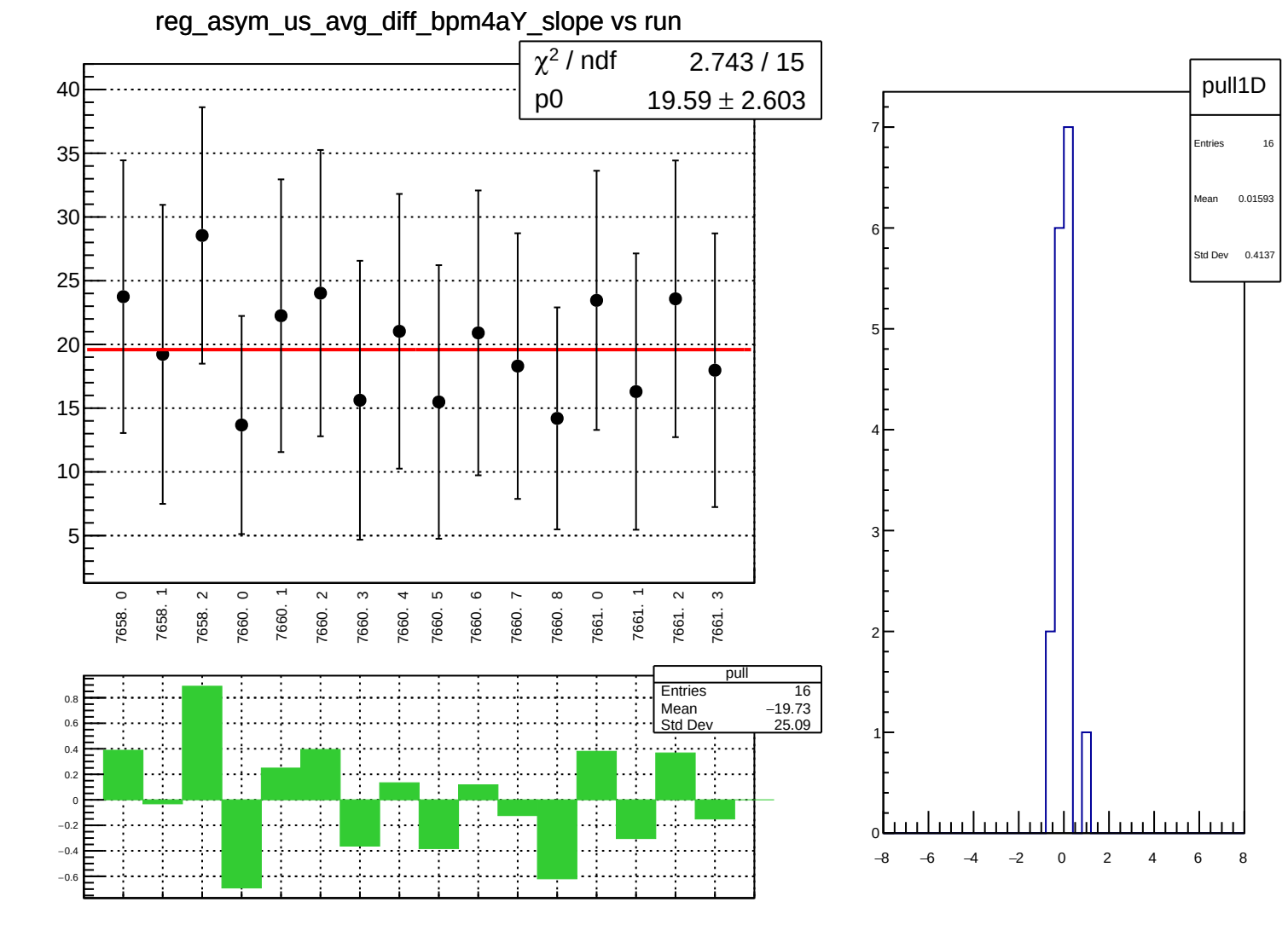

pull1D
Entries 16
Mean −0.4273
Std Dev 1.52
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

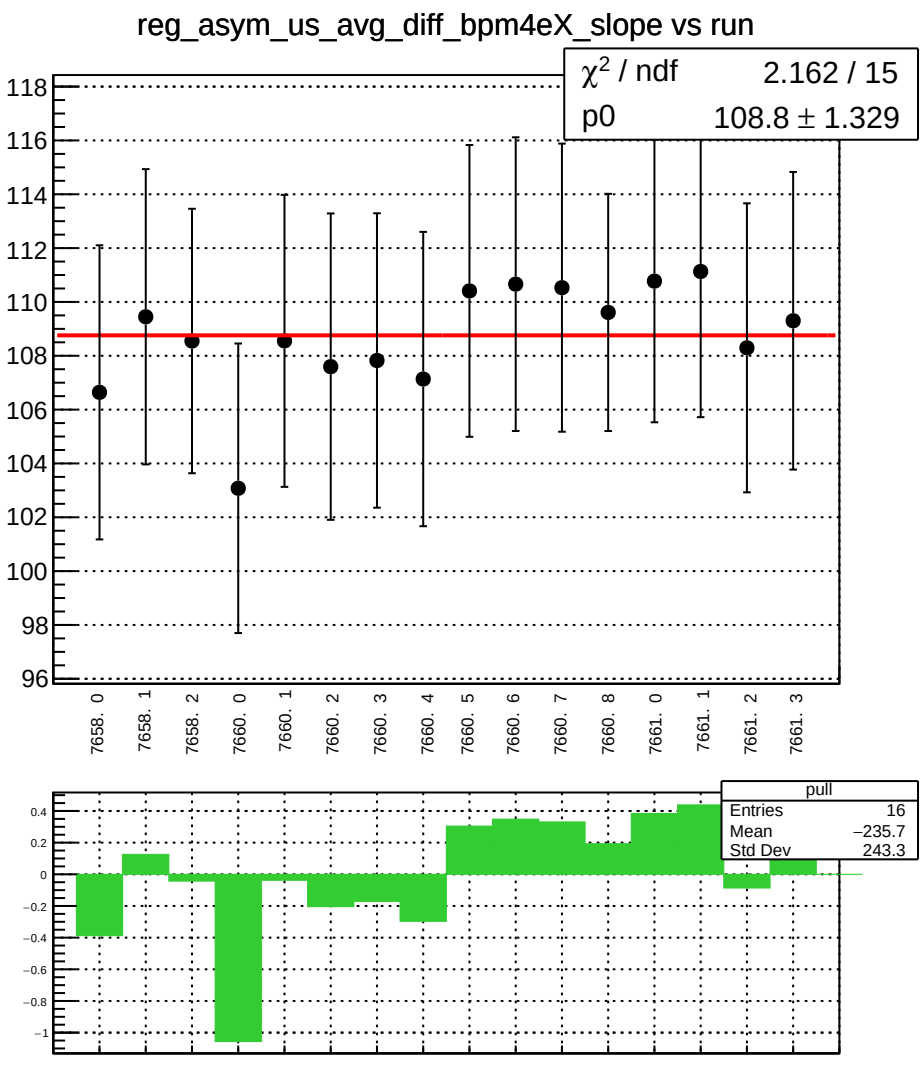

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 23.08 / 15
p0 28.36 ± 11.65
6000
4000
2000
0
−2000
−4000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 7.211
Std Dev 6.349
2
1
0
−1
−2

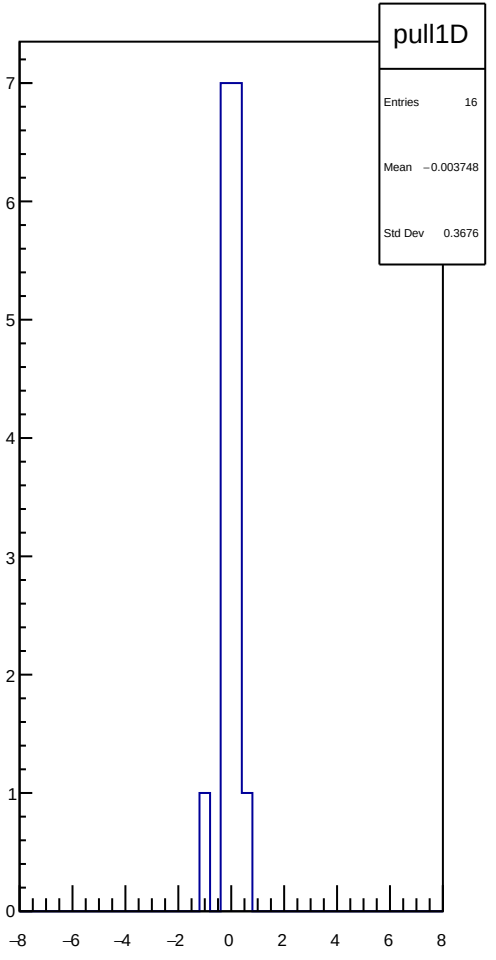

pull1D
Entries 16
Mean 0.1298
Std Dev 1.194
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

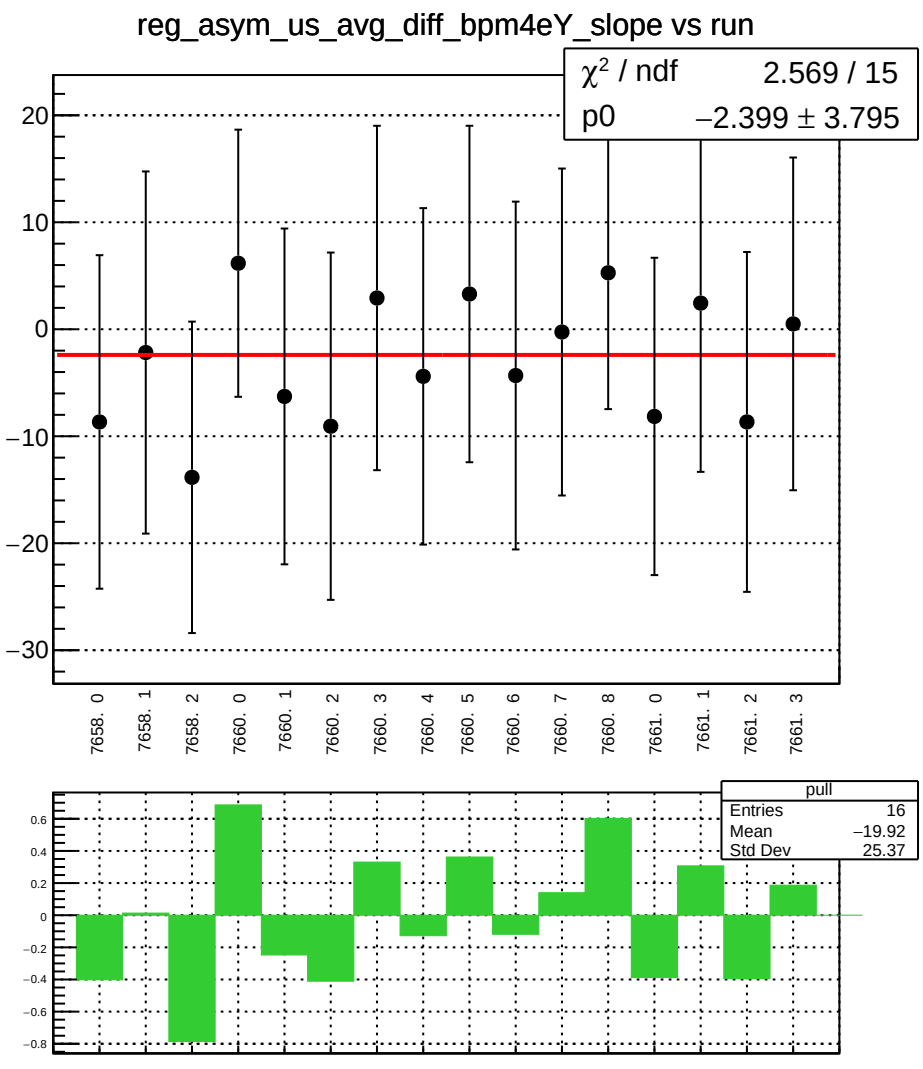

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 1.488 / 15
p0 −111.5 ± 1.617
−100
−105
−110
−115
−120
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −233.2
Std Dev 240.6
0.8
0.6
0.4
0.2
0
−0.2
−0.4

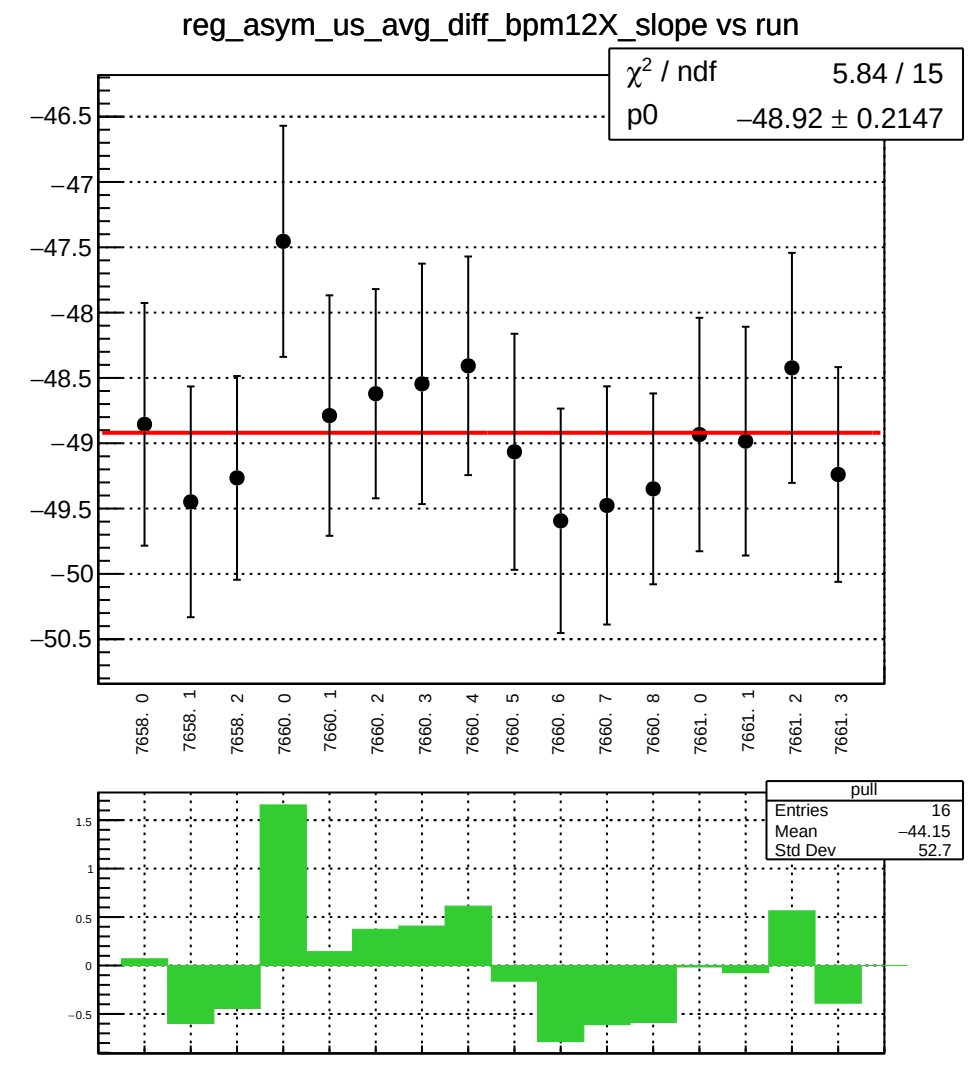

pull1D
Entries 16
Mean 0.002939
Std Dev 0.3049
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

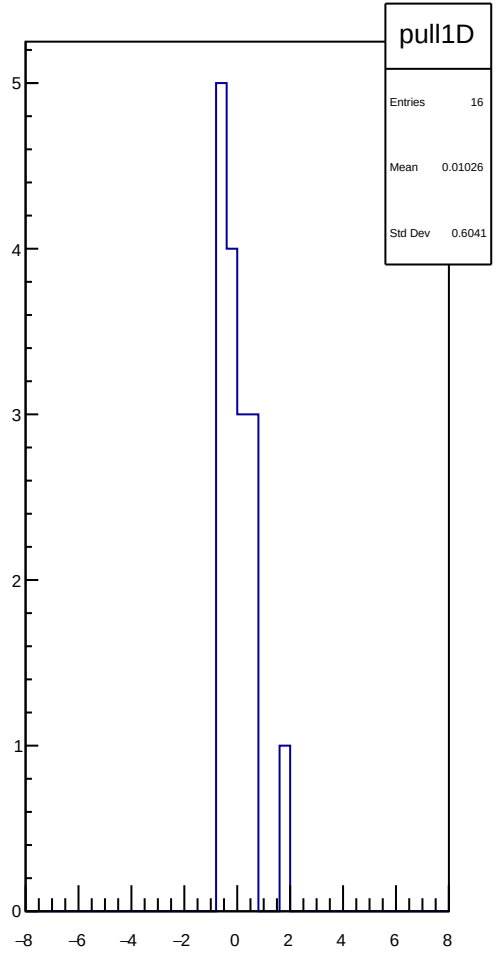

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.743 / 15
p0 19.59 ± 2.603
40
35
30
25
20
15
10
5
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −19.73
Std Dev 25.09
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 16
Mean 0.01593
Std Dev 0.4137
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

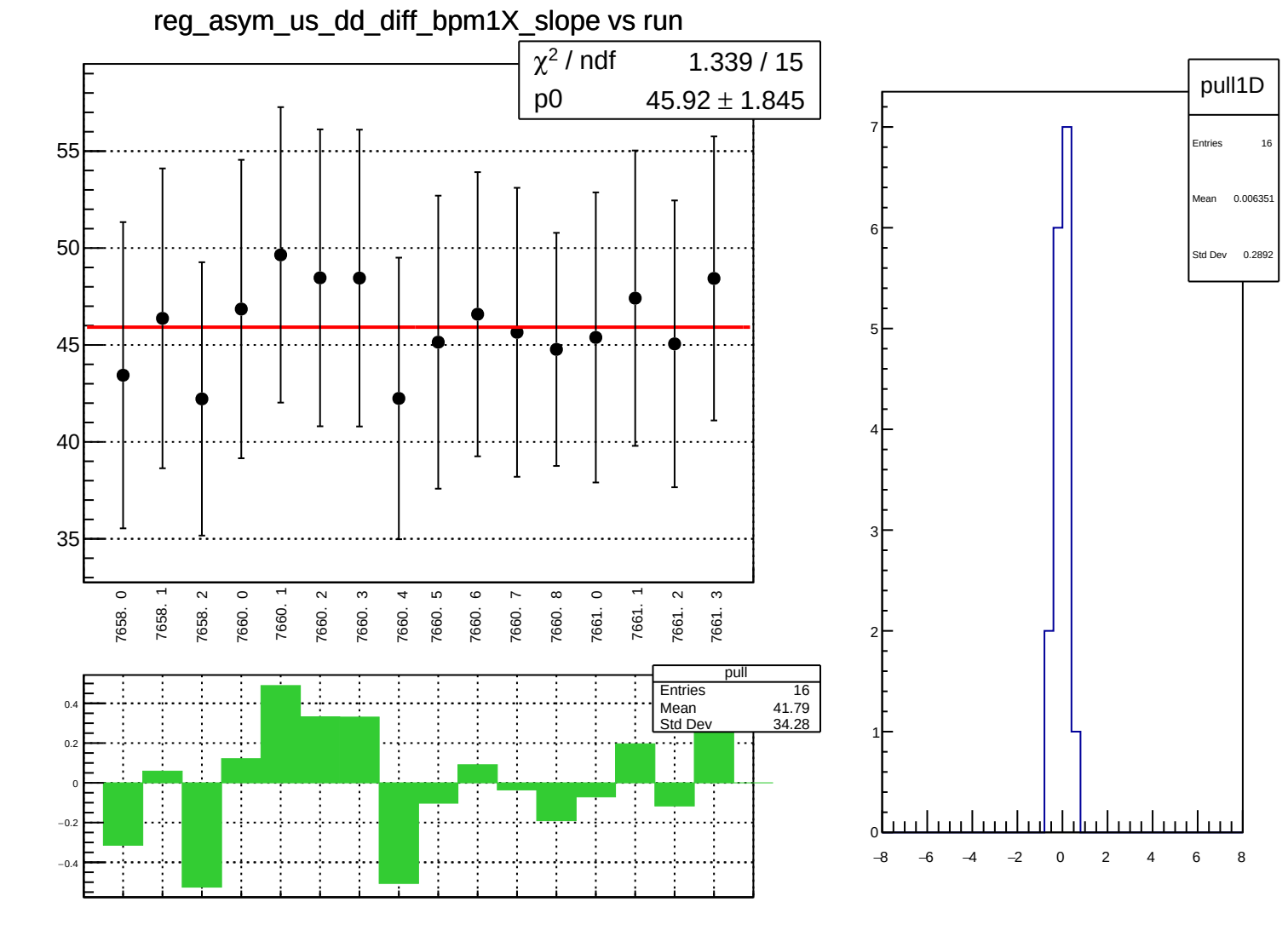

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.162 / 15
p0 108.8 ± 1.329
118
116
114
112
110
108
106
104
102
100
98
96
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −235.7
Std Dev 243.3
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

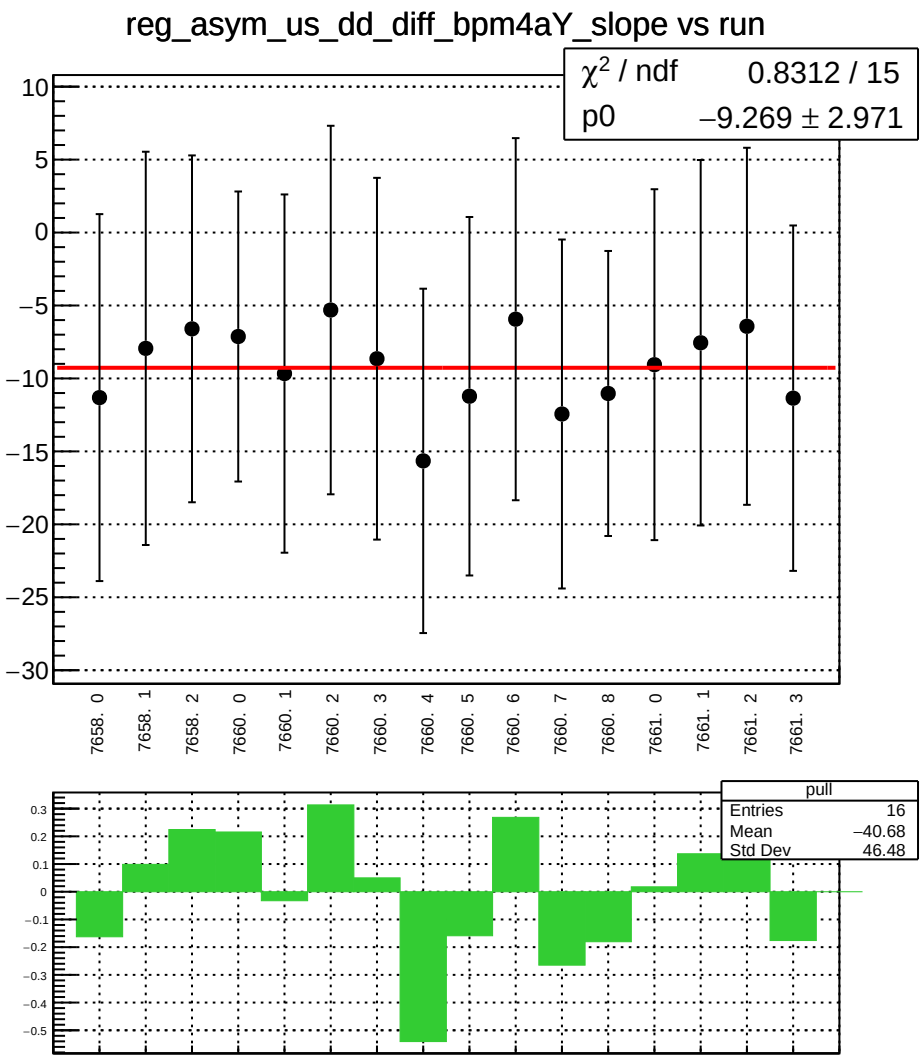

pull1D
Entries 16
Mean −0.003748
Std Dev 0.3676
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

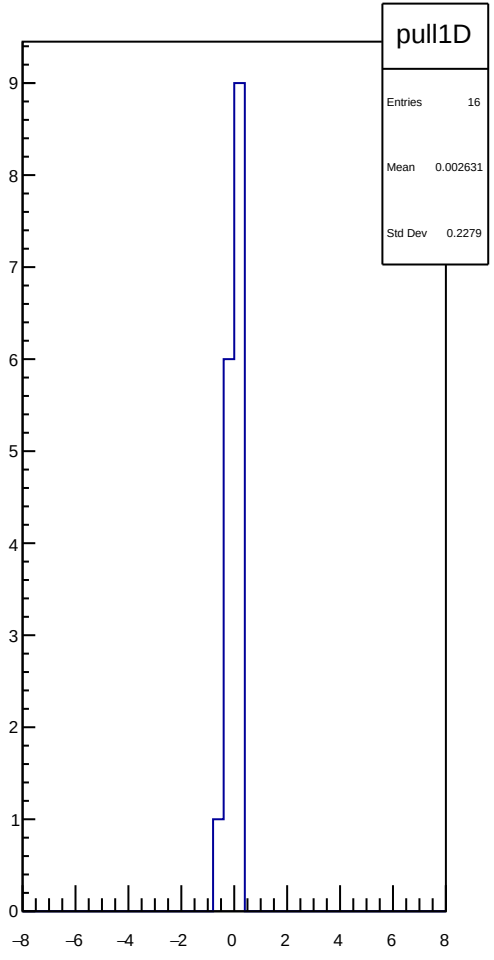

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.569 / 15
p0 −2.399 ± 3.795
20
10
0
−10
−20
−30
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −19.92
Std Dev 25.37
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 16
Mean −0.01537
Std Dev 0.4004
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

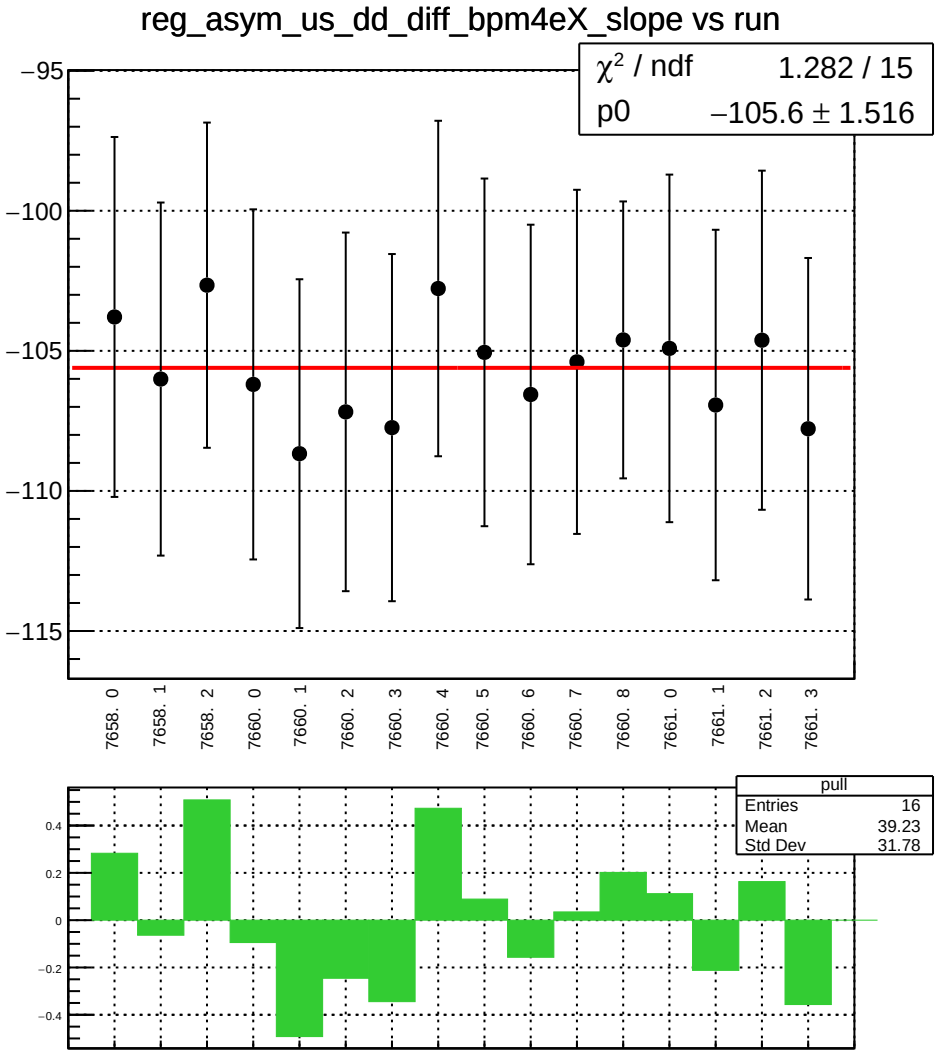

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 5.84 / 15
p0 −48.92 ± 0.2147
−46.5
−47
−47.5
−48
−48.5
−49
−49.5
−50
−50.5
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −44.15
Std Dev 52.7
1.5
1
0.5
0
−0.5

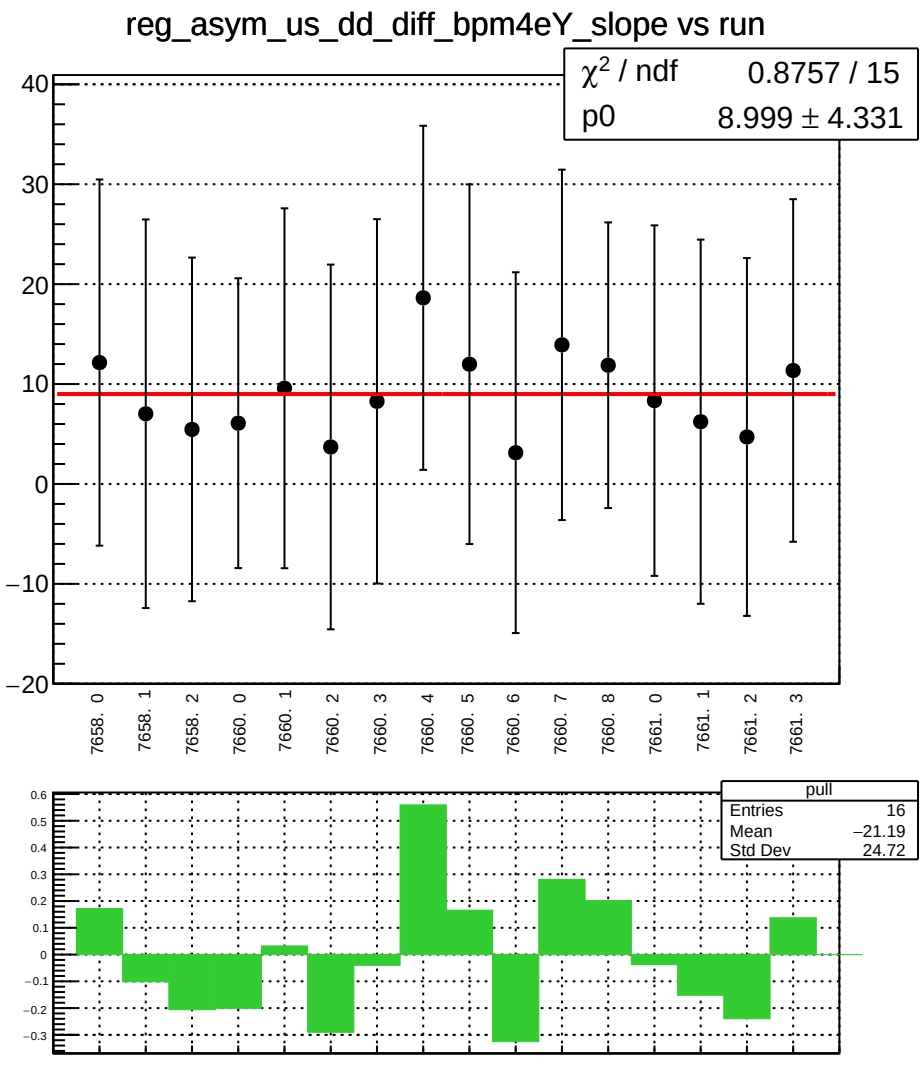

pull1D
Entries 16
Mean 0.01026
Std Dev 0.6041
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

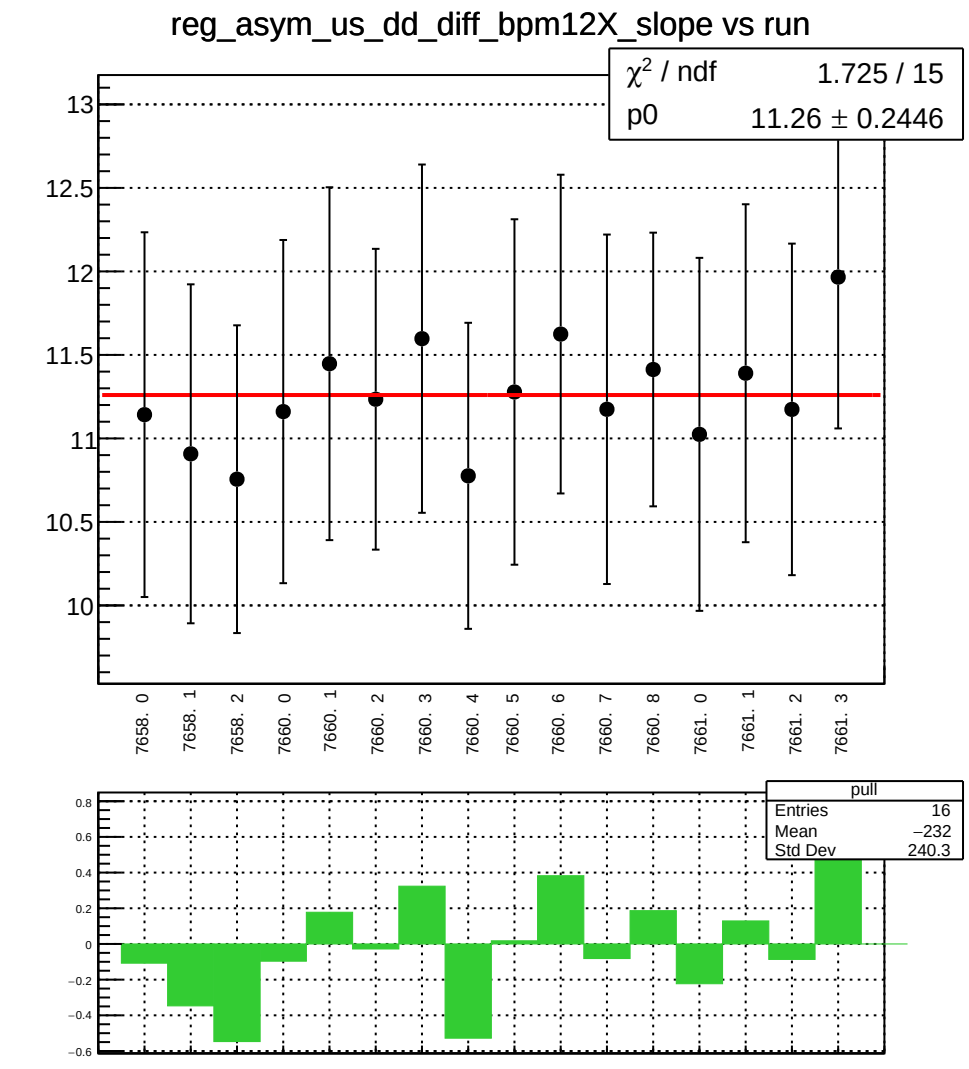

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 1.339 / 15
p0 45.92 ± 1.845
55
50
45
40
35
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 41.79
Std Dev 34.28
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 16
Mean 0.006351
Std Dev 0.2892
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

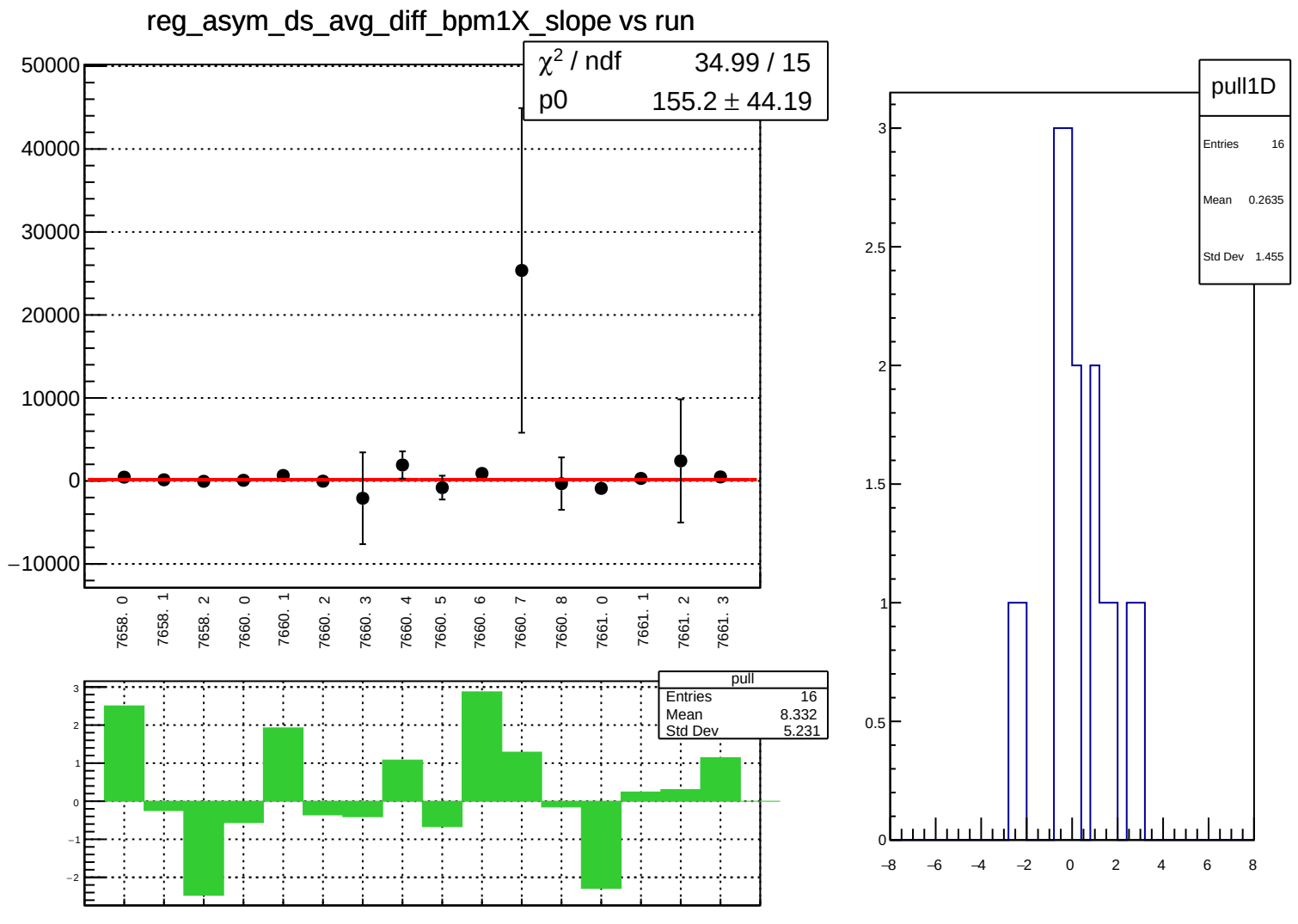

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.8312 / 15
p0 −9.269 ± 2.971
10
5
0
−5
−10
−15
−20
−25
−30
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −40.68
Std Dev 46.48
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5

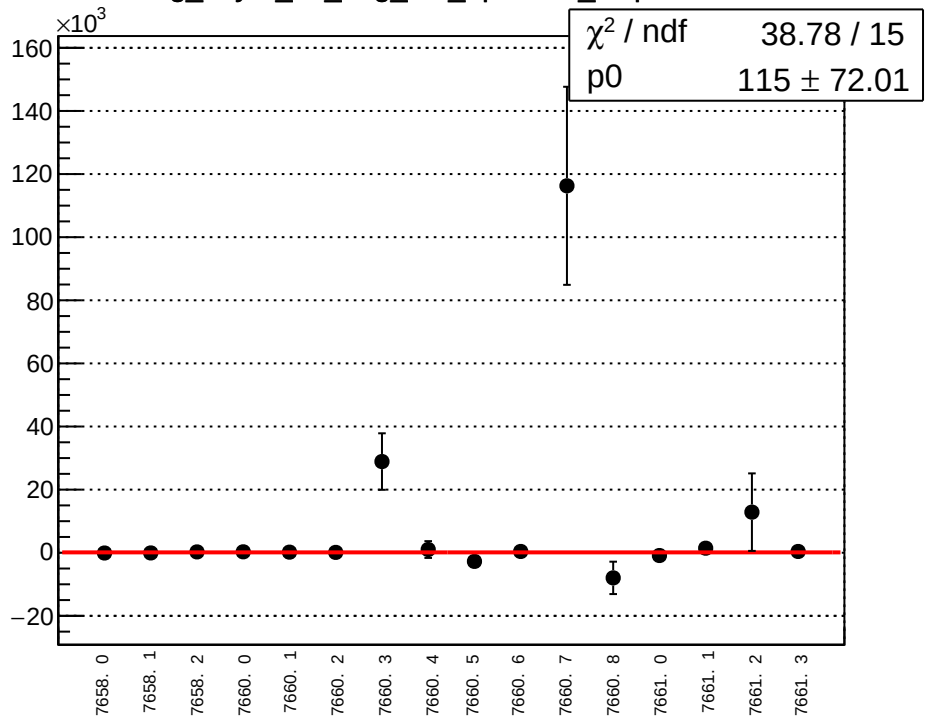

pull1D
Entries 16
Mean 0.002631
Std Dev 0.2279
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

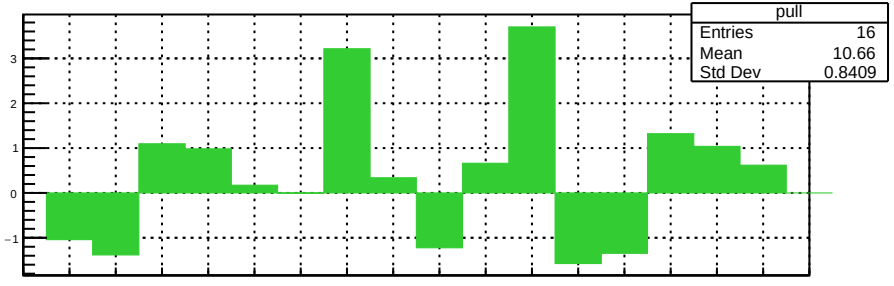

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.282 / 15
p0 −105.6 ± 1.516
−95
−100
−105
−110
−115
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 39.23
Std Dev 31.78
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 16
Mean −0.006279
Std Dev 0.283
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

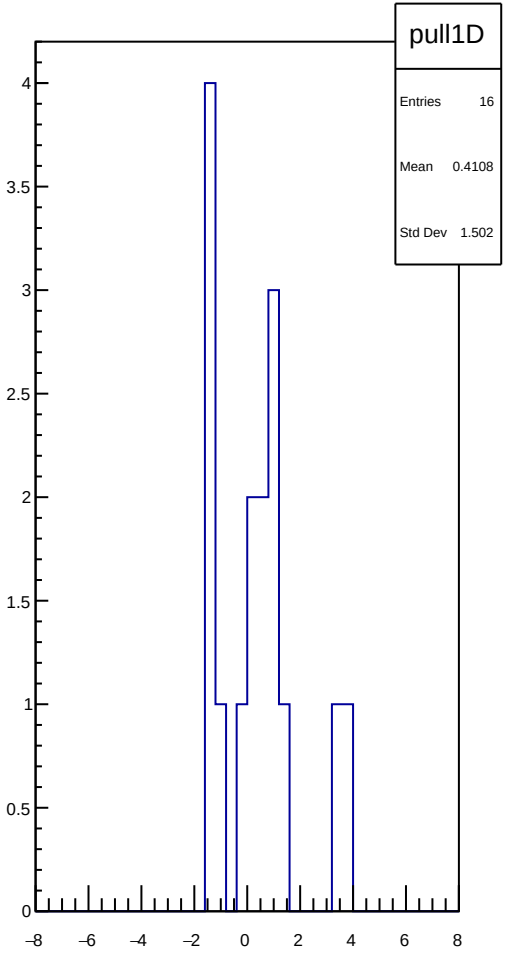

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.8757 / 15
p0 8.999 ± 4.331
40
30
20
10
0
−10
−20
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −21.19
Std Dev 24.72
0.6
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 16
Mean −0.002723
Std Dev 0.2339
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

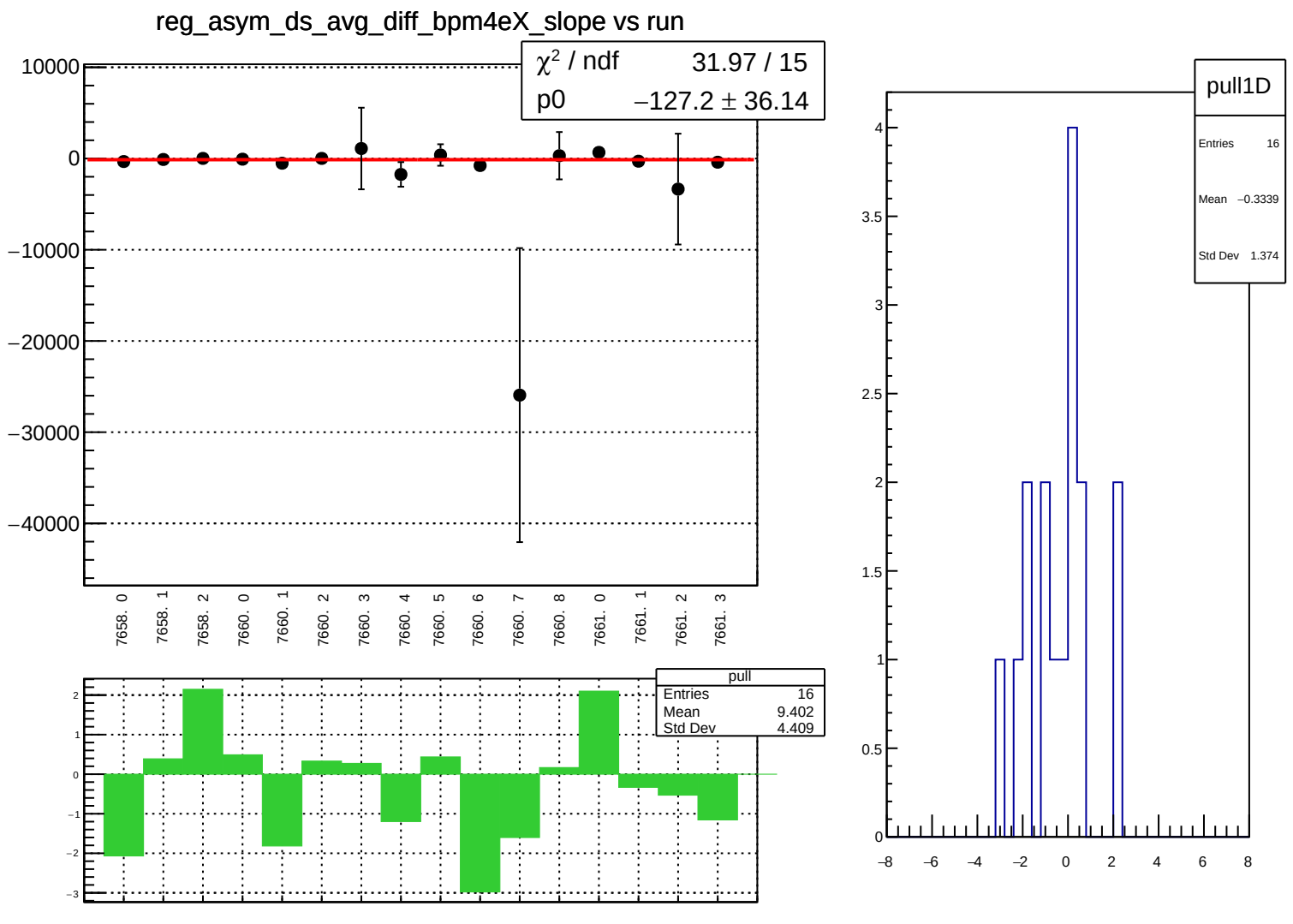

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 1.725 / 15
p0 11.26 ± 0.2446
13
12.5
12
11.5
11
10.5
10
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −232
Std Dev 240.3
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 16
Mean −0.00306
Std Dev 0.3284
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

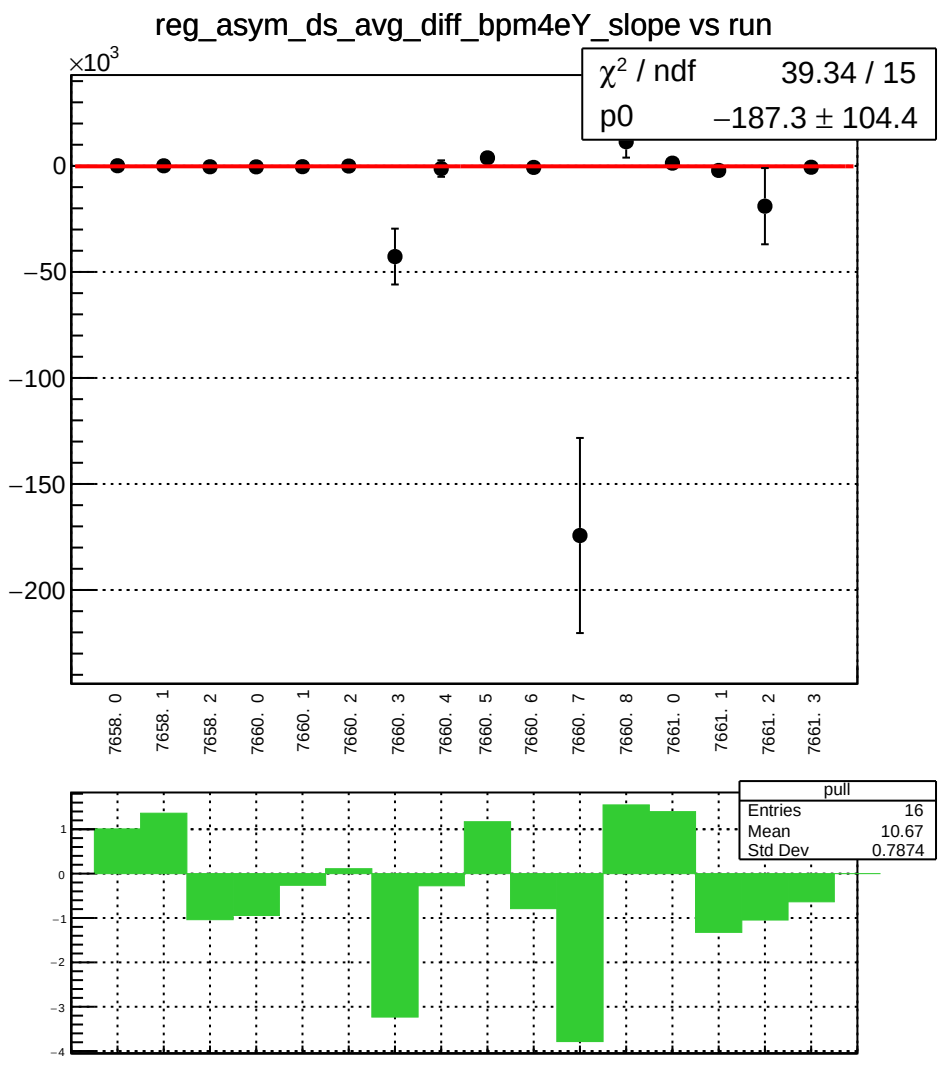

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 34.99 / 15
p0 155.2 ± 44.19
50000
40000
30000
20000
10000
0
−10000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 8.332
Std Dev 5.231
pull1D
Entries 16
Mean 0.2635
Std Dev 1.455

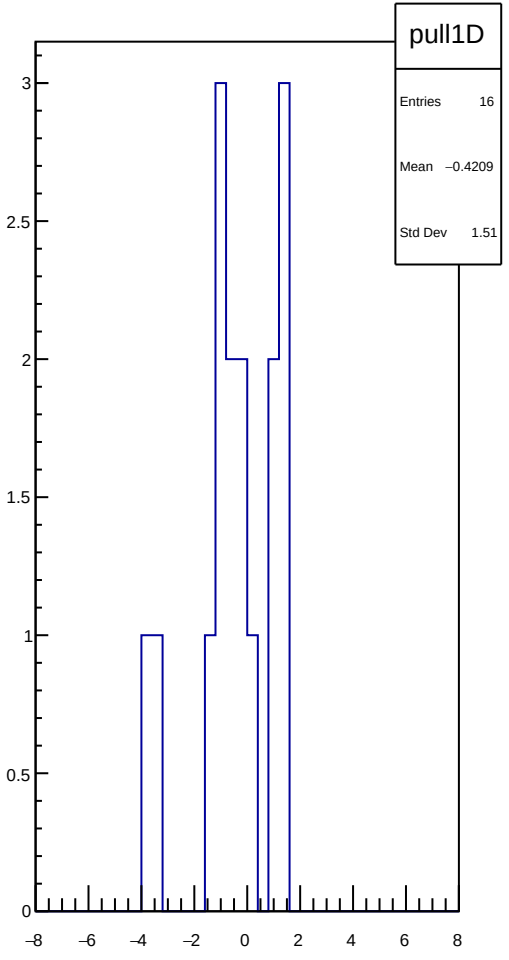

reg_asym_ds_avg_diff_bpm4aY_slope vs run
×10^3
χ^2 / ndf 38.78 / 15
p0 115 ± 72.01
160
140
120
100
80
60
40
20
0
−20
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

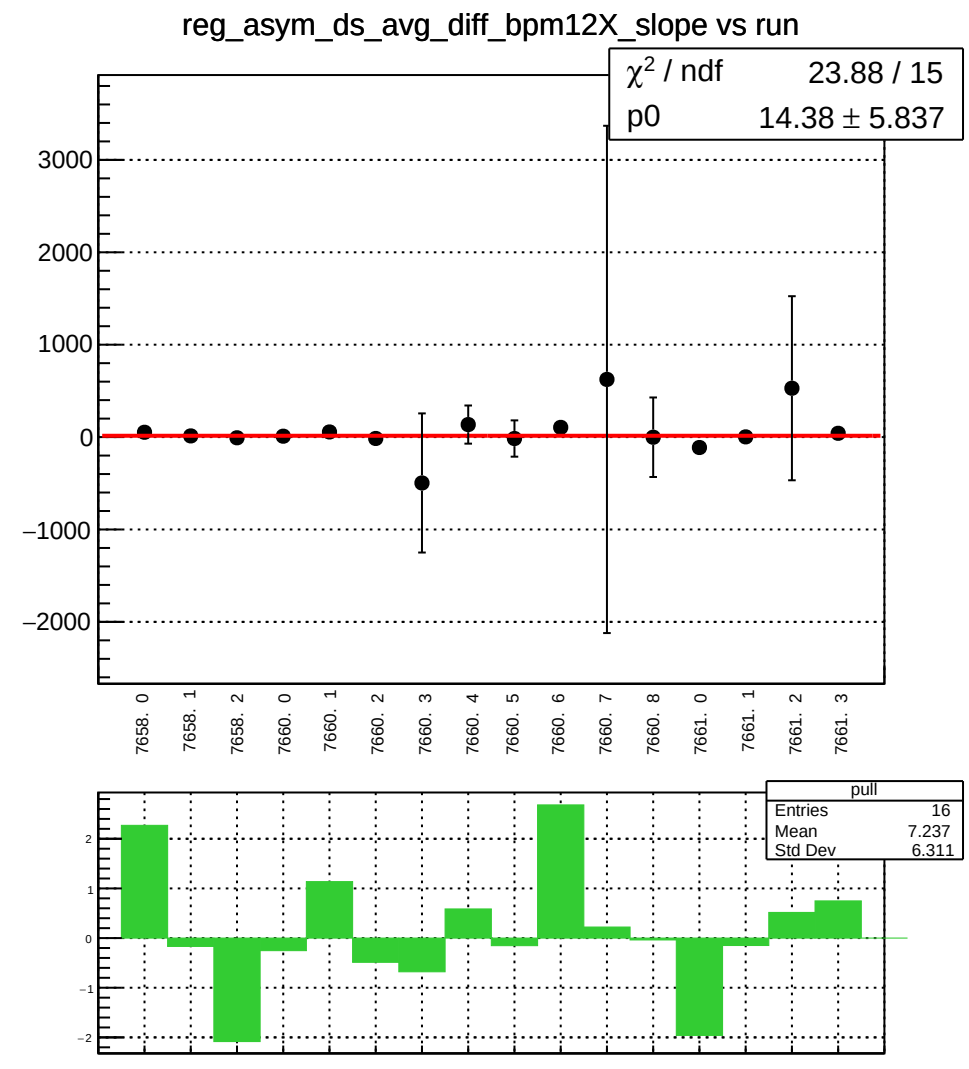

pull
Entries 16
Mean 10.66
Std Dev 0.8409
3
2
1
0
−1

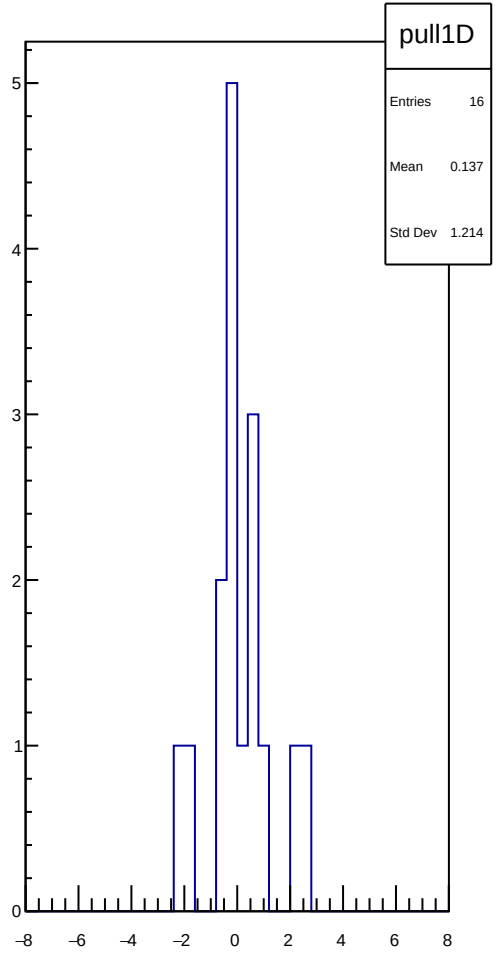

pull1D
Entries 16
Mean 0.4108
Std Dev 1.502
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

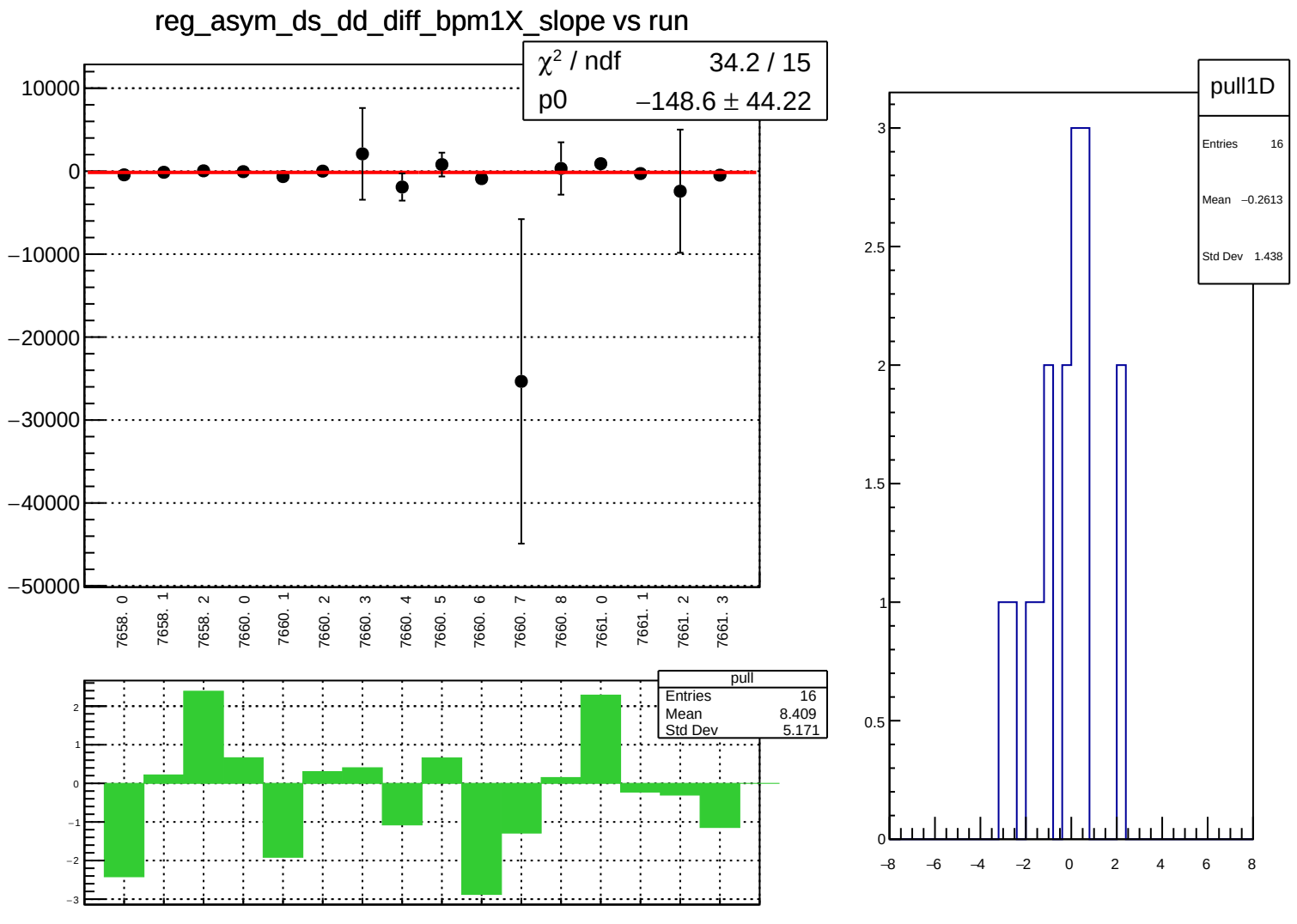

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 31.97 / 15
p0 −127.2 ± 36.14
10000
0
−10000
−20000
−30000
−40000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 9.402
Std Dev 4.409
2
1
0
−1
−2
−3
pull1D
Entries 16
Mean −0.3339
Std Dev 1.374
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

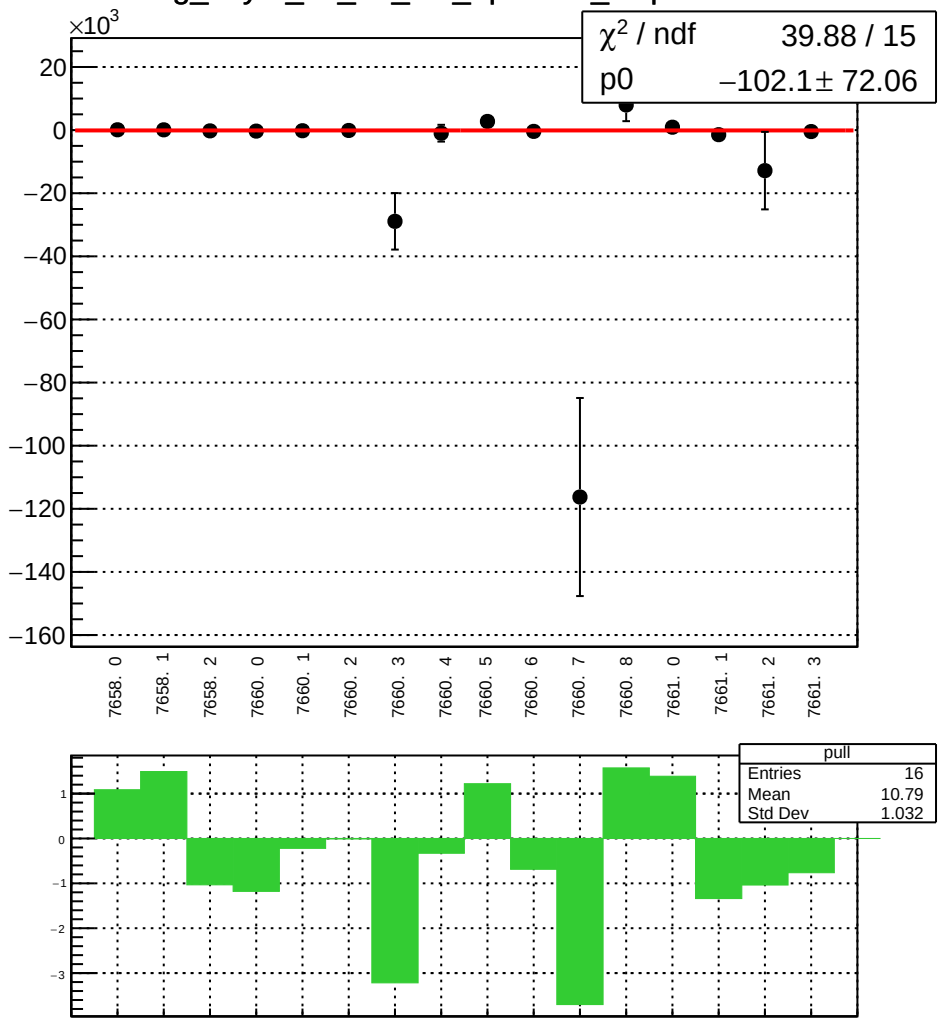

reg_asym_ds_avg_diff_bpm4eY_slope vs run
×10^3
χ^2 / ndf 39.34 / 15
p0 −187.3 ± 104.4
0
−50
−100
−150
−200
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 10.67
Std Dev 0.7874
1
0
−1
−2
−3
−4

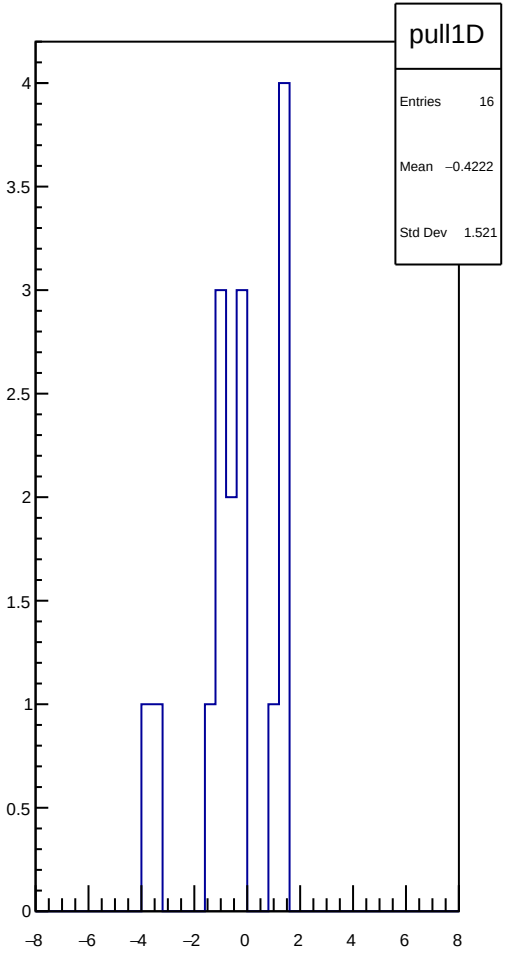

pull1D
Entries 16
Mean −0.4209
Std Dev 1.51
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

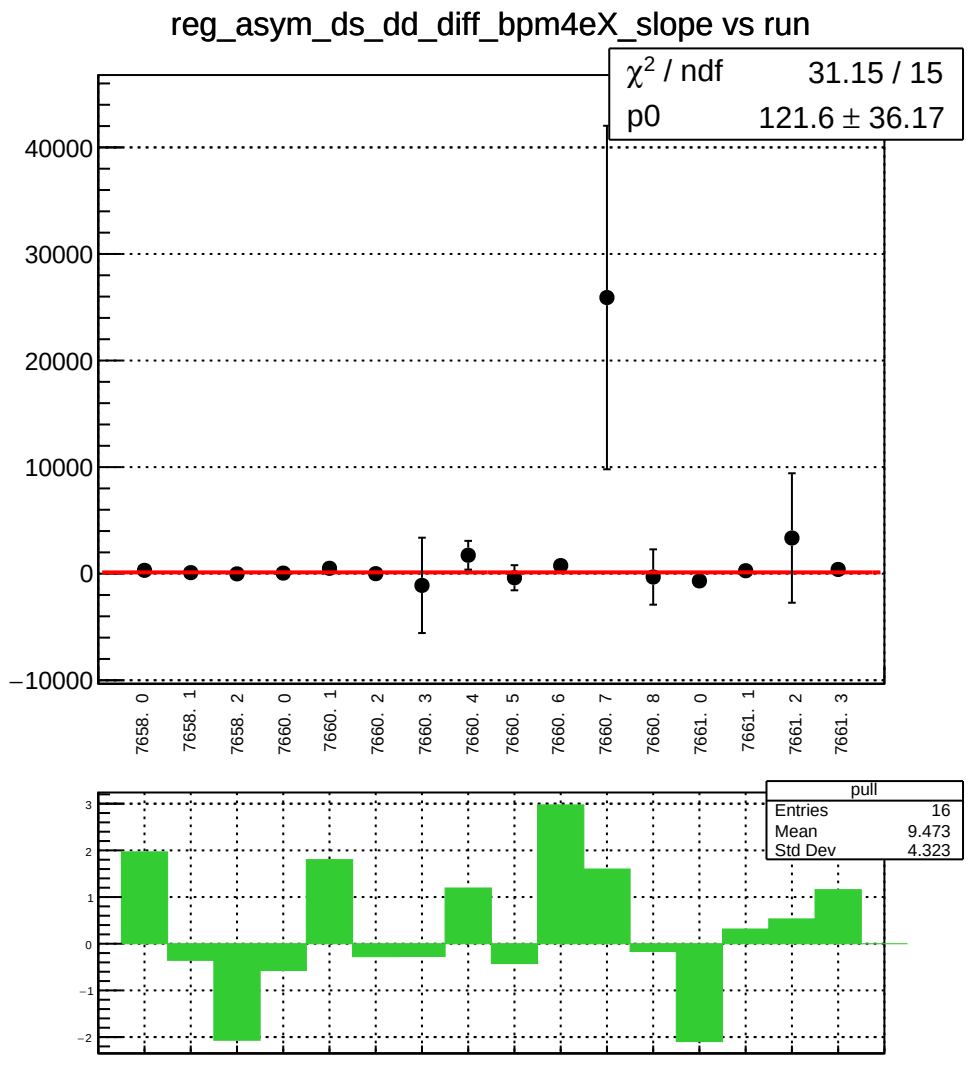

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 23.88 / 15
p0 14.38 ± 5.837
3000
2000
1000
0
−1000
−2000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 7.237
Std Dev 6.311
2
1
0
−1
−2

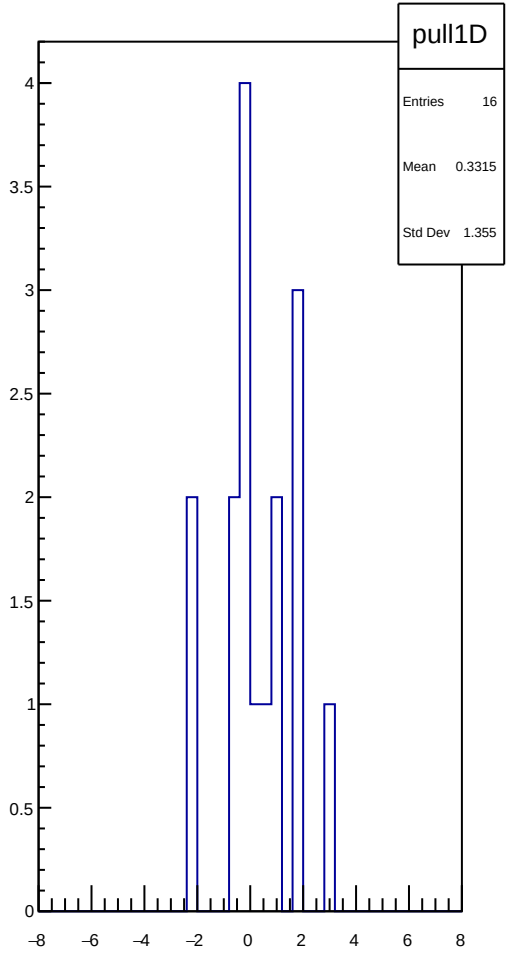

pull1D
Entries 16
Mean 0.137
Std Dev 1.214
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

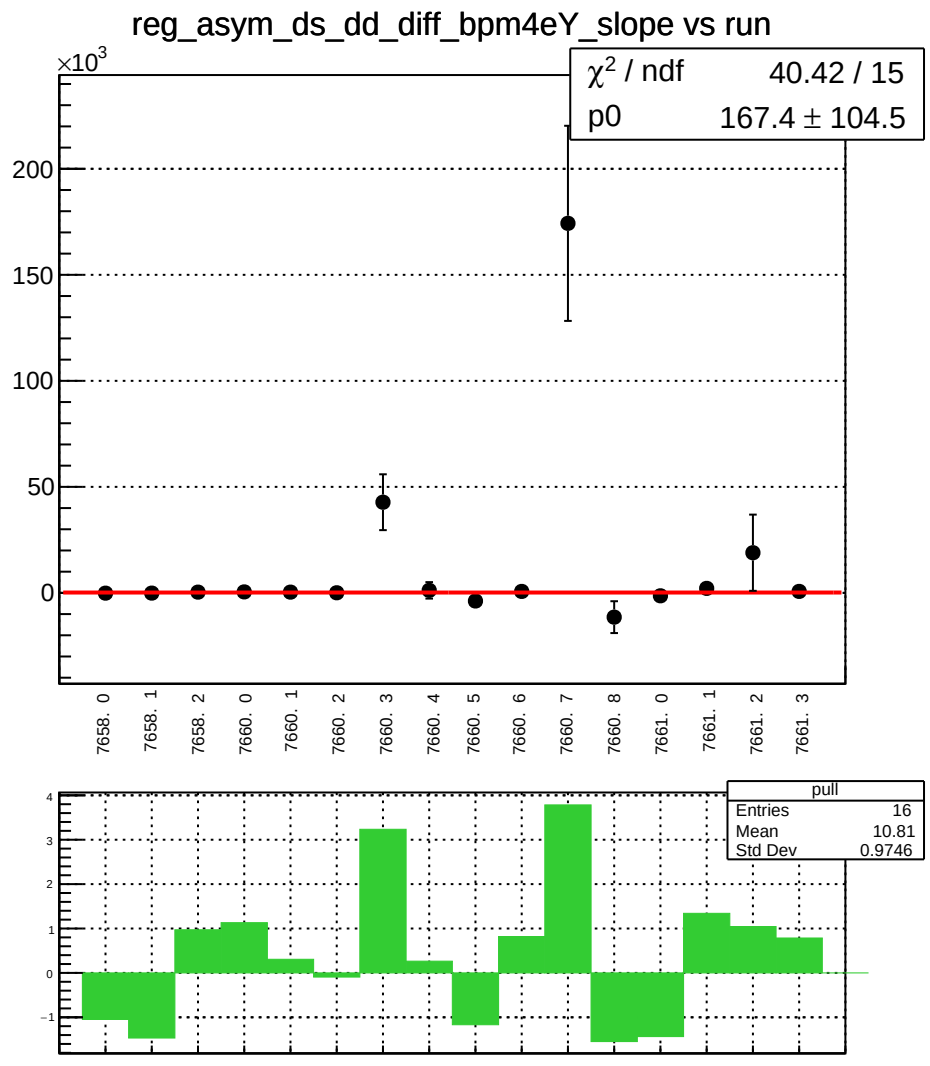

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 34.2 / 15
p0 −148.6 ± 44.22
10000
0
−10000
−20000
−30000
−40000
−50000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 8.409
Std Dev 5.171
2
1
0
−1
−2
−3
pull1D
Entries 16
Mean −0.2613
Std Dev 1.438
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

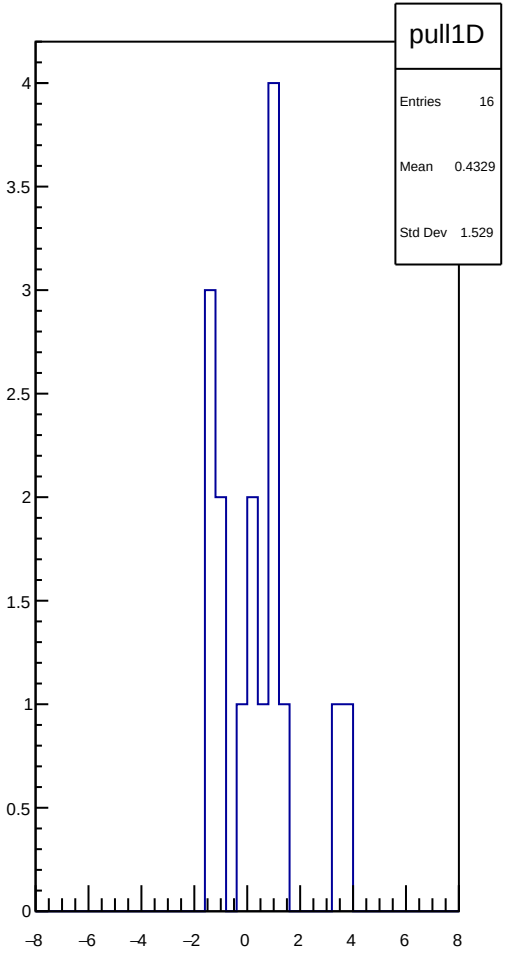

reg_asym_ds_dd_diff_bpm4aY_slope vs run
×10^3
χ² / ndf 39.88 / 15
p0 −102.1± 72.06
20
0
−20
−40
−60
−80
−100
−120
−140
−160
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 10.79
Std Dev 1.032
1
0
−1
−2
−3

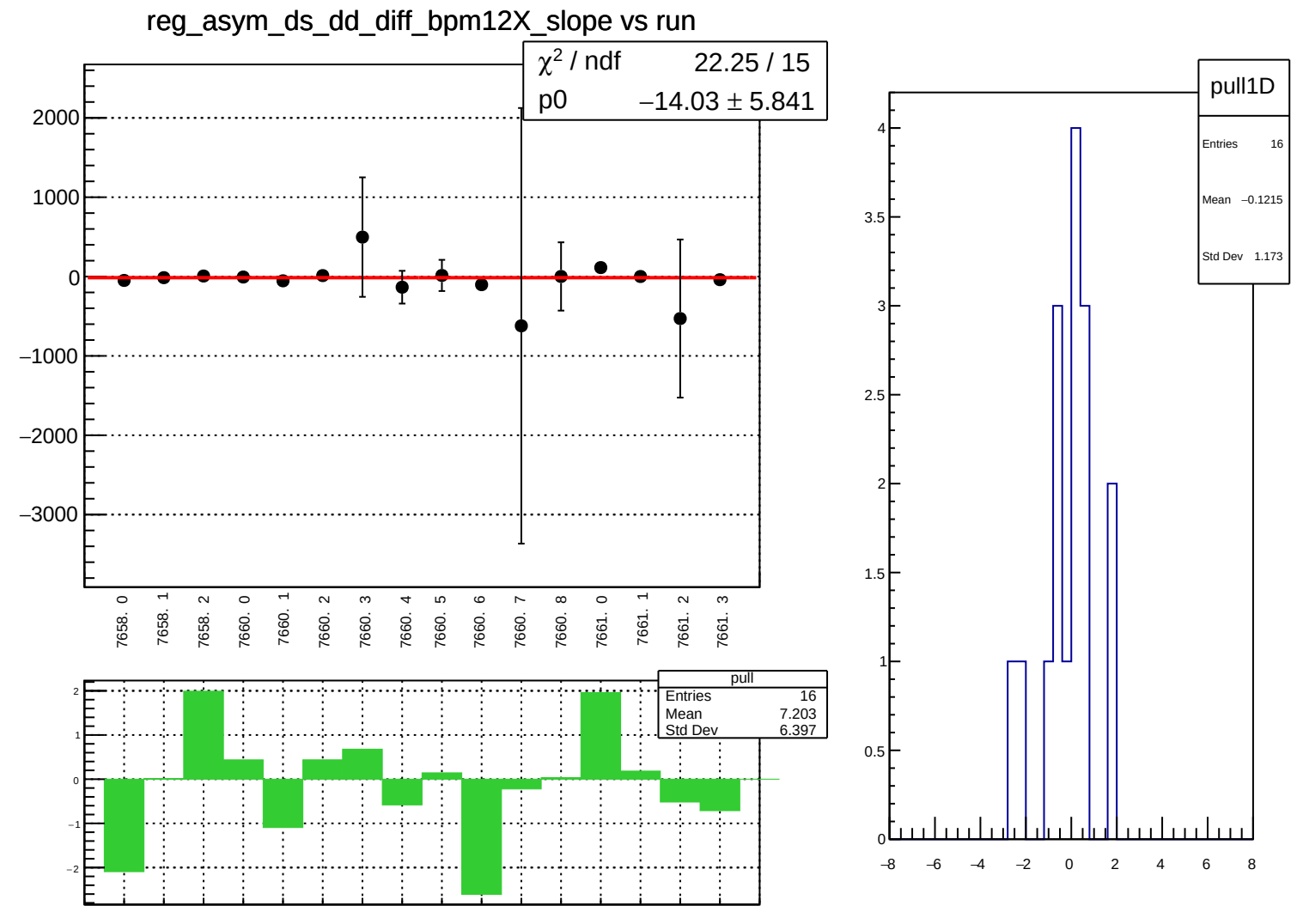

pull1D
Entries 16
Mean −0.4222
Std Dev 1.521
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

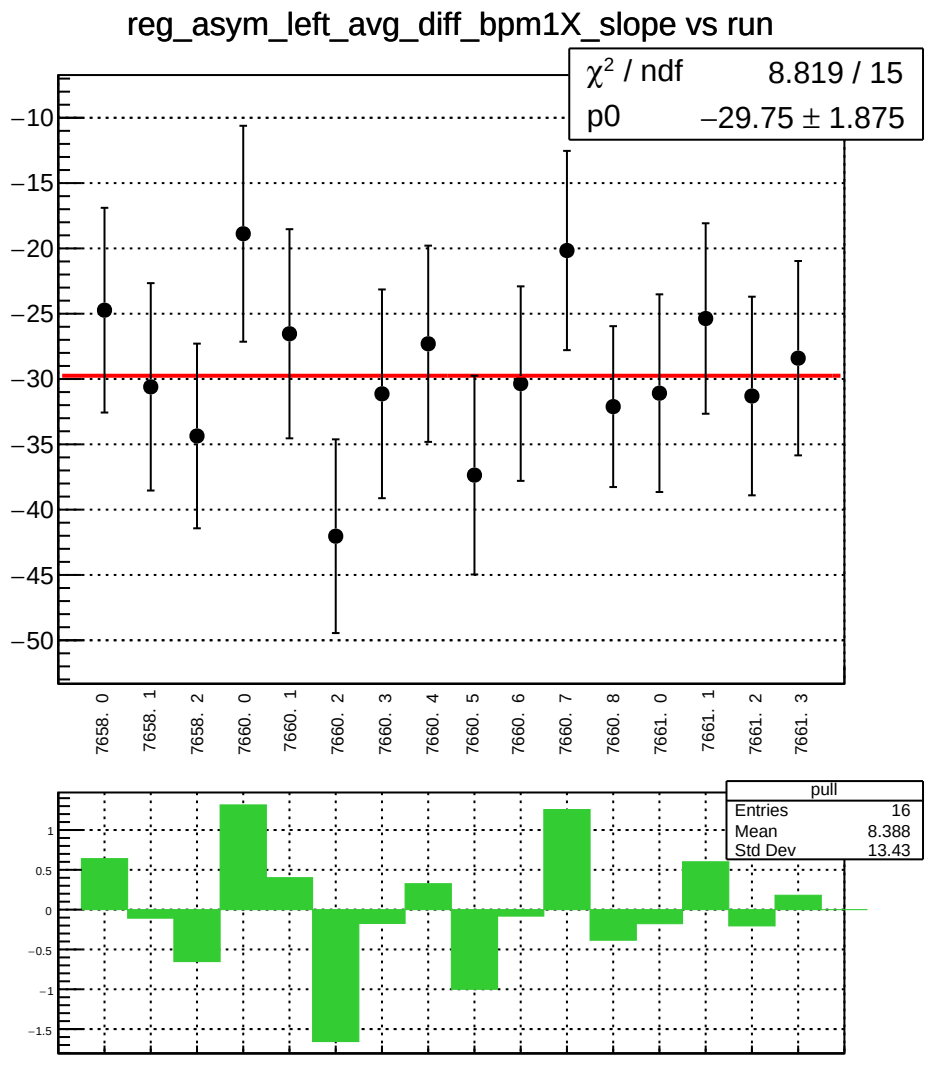

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 31.15 / 15
p0 121.6 ± 36.17
40000
30000
20000
10000
0
−10000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 9.473
Std Dev 4.323
3
2
1
0
−1
−2

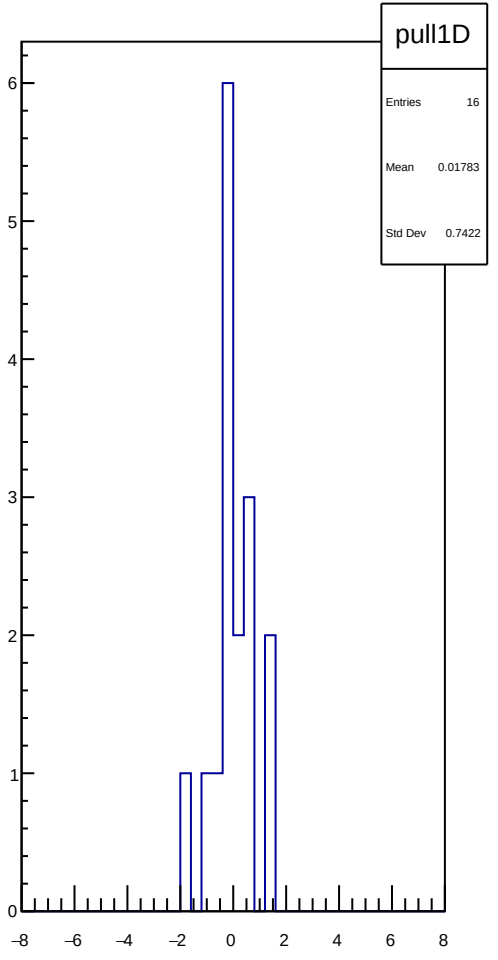

pull1D
Entries 16
Mean 0.3315
Std Dev 1.355
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

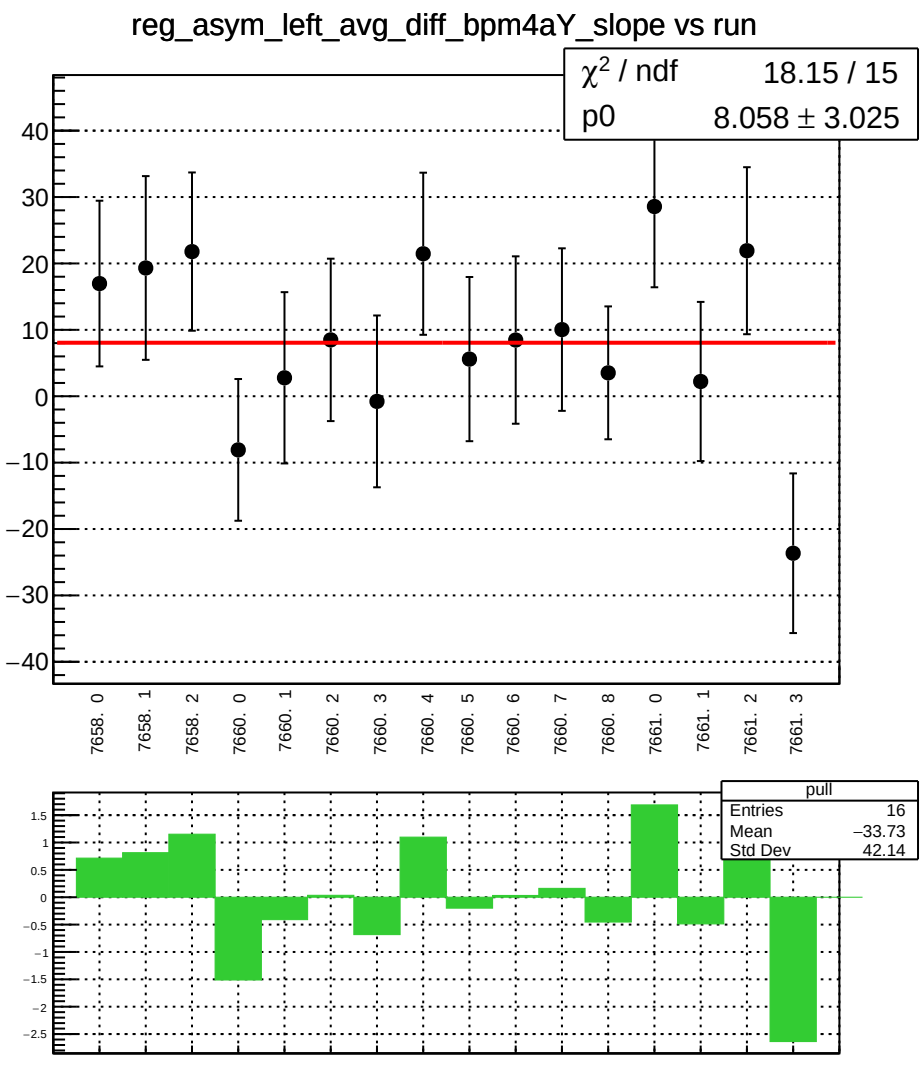

reg_asym_ds_dd_diff_bpm4eY_slope vs run
×10^3
χ^2 / ndf 40.42 / 15
p0 167.4 ± 104.5
200
150
100
50
0
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 10.81
Std Dev 0.9746
4
3
2
1
0
−1

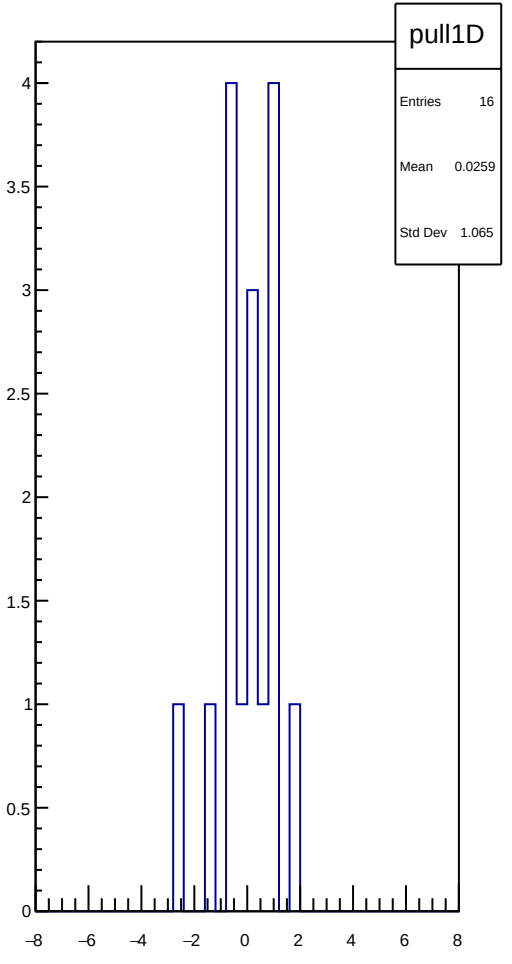

pull1D
Entries 16
Mean 0.4329
Std Dev 1.529
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

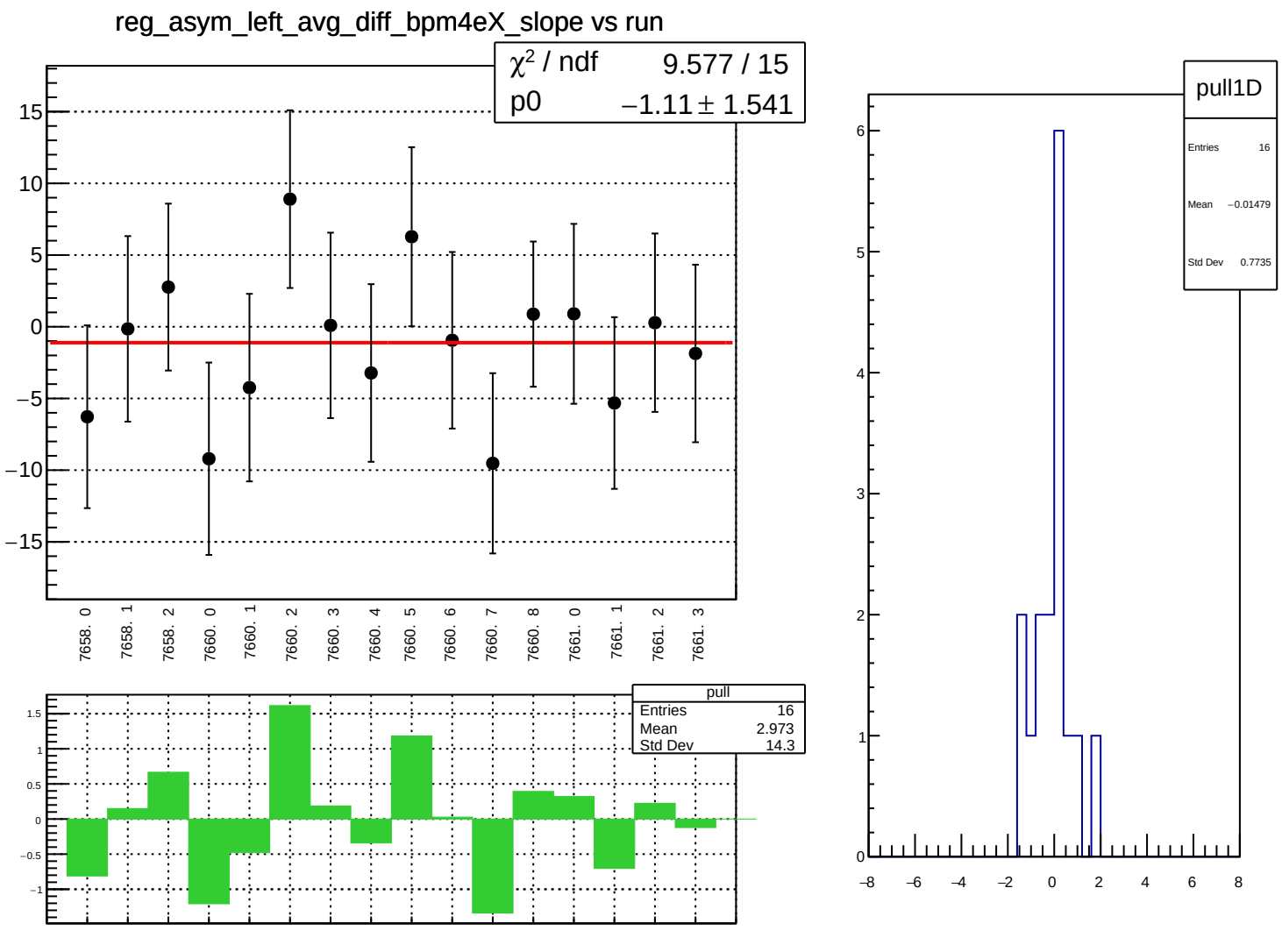

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 22.25 / 15
p0 −14.03 ± 5.841
2000
1000
0
−1000
−2000
−3000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 7.203
Std Dev 6.397
pull1D
Entries 16
Mean −0.1215
Std Dev 1.173

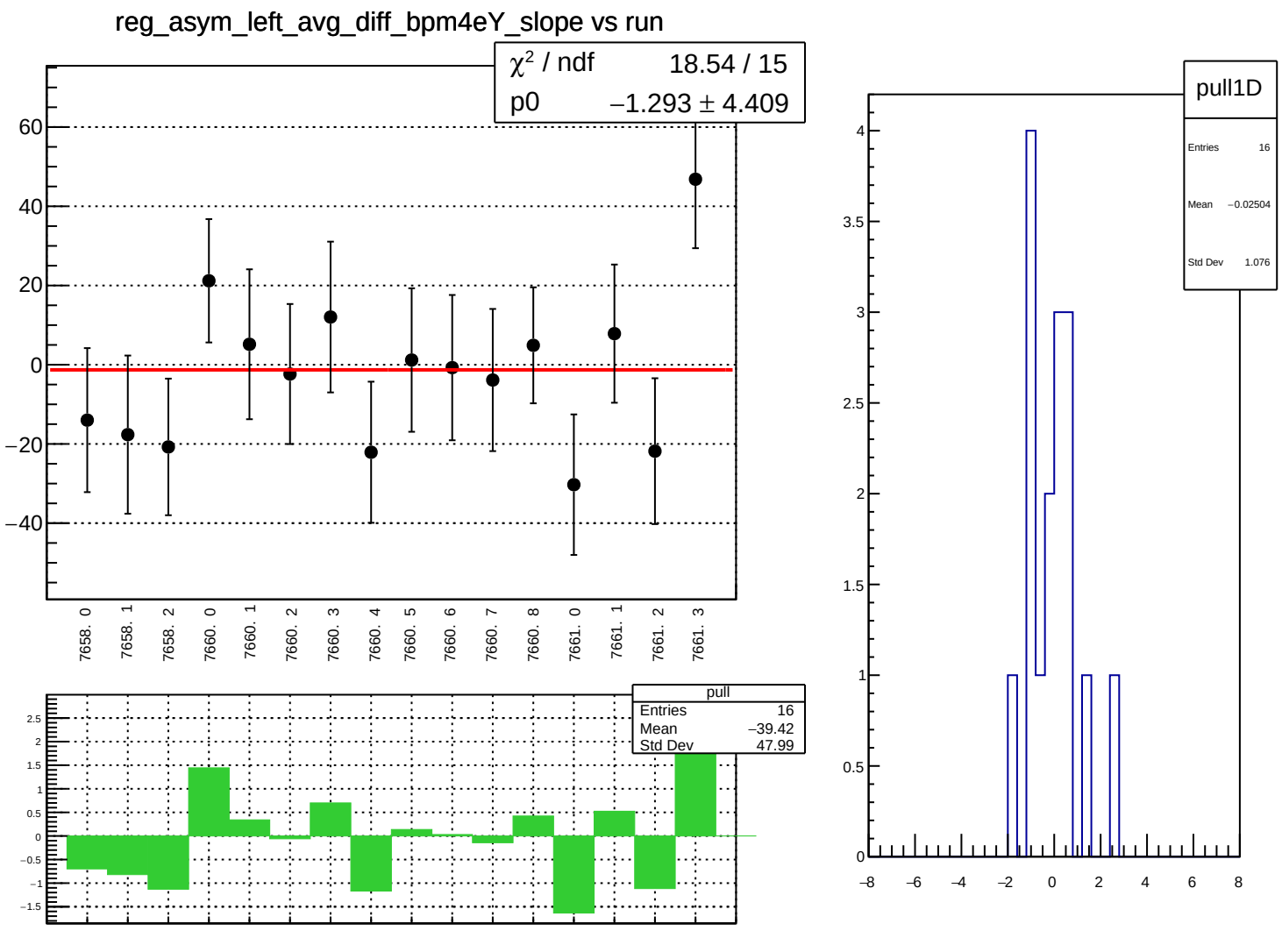

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 8.819 / 15
p0 −29.75 ± 1.875
−10
−15
−20
−25
−30
−35
−40
−45
−50
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 8.388
Std Dev 13.43
1
0.5
0
−0.5
−1
−1.5

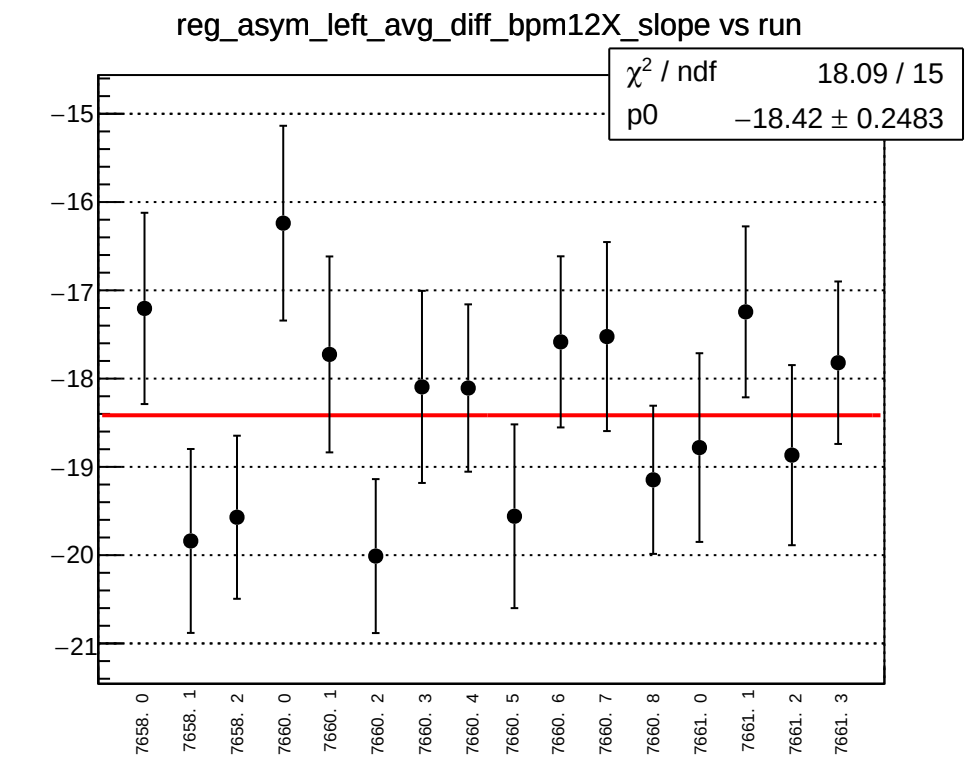

pull1D
Entries 16
Mean 0.01783
Std Dev 0.7422
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

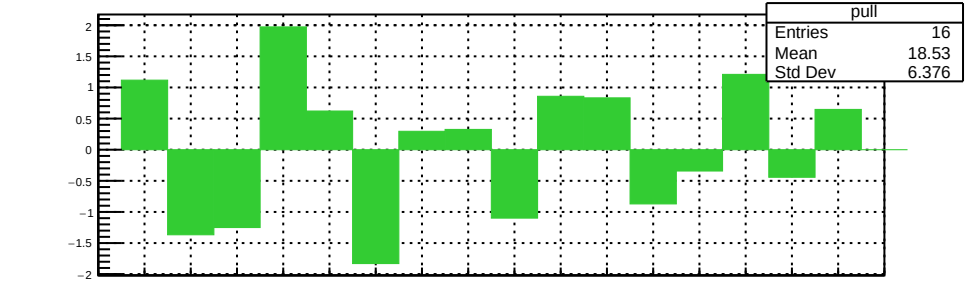

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 18.15 / 15
p0 8.058 ± 3.025
40
30
20
10
0
−10
−20
−30
−40
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −33.73
Std Dev 42.14
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

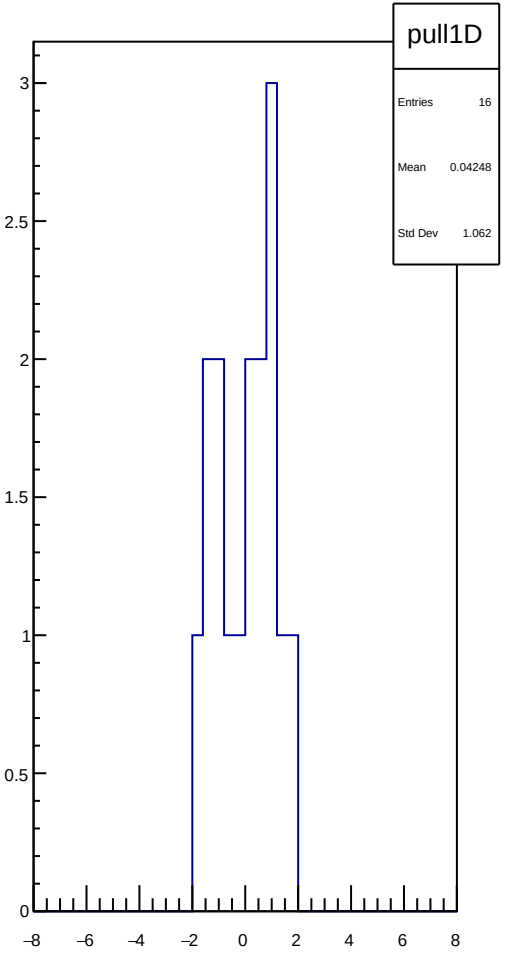

pull1D
Entries 16
Mean 0.0259
Std Dev 1.065
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

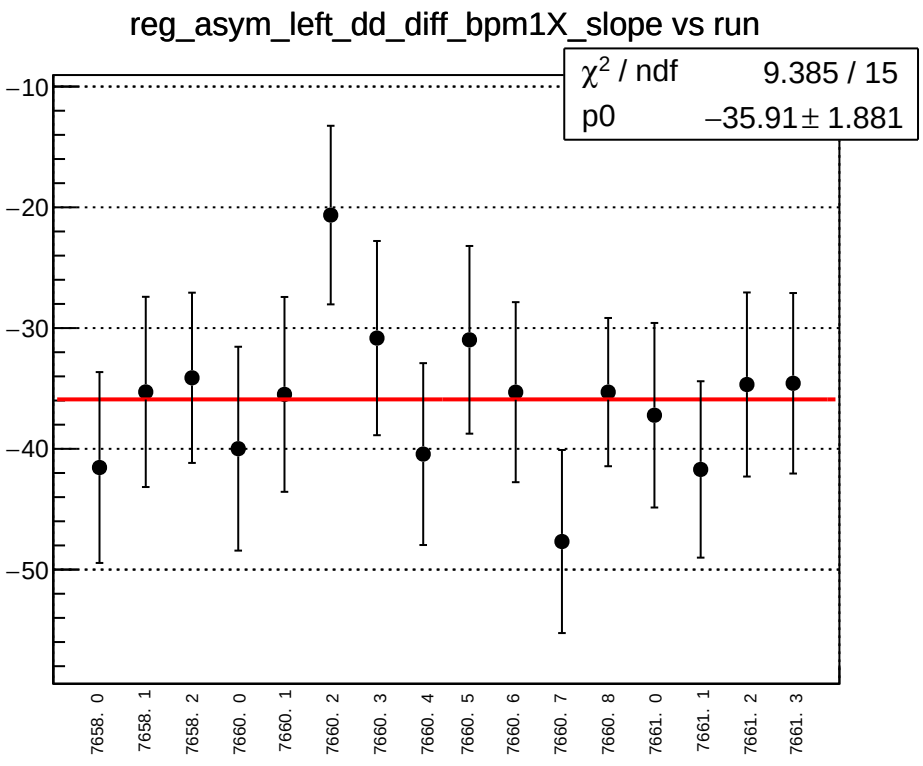

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.577 / 15
p0 −1.11 ± 1.541
15
10
5
0
−5
−10
−15
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 2.973
Std Dev 14.3
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 16
Mean −0.01479
Std Dev 0.7735
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

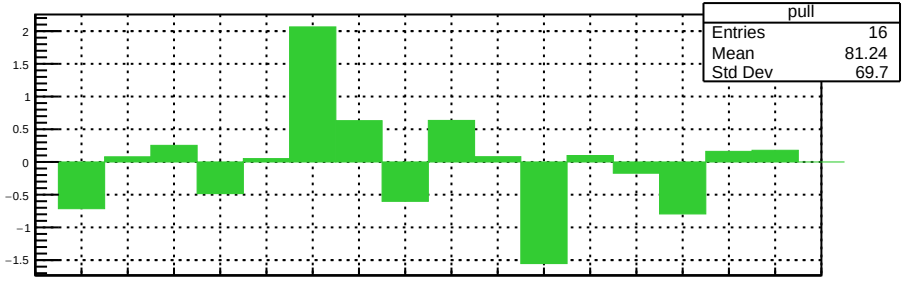

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 18.54 / 15
p0 −1.293 ± 4.409
60
40
20
0
−20
−40
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −39.42
Std Dev 47.99
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 16
Mean −0.02504
Std Dev 1.076
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

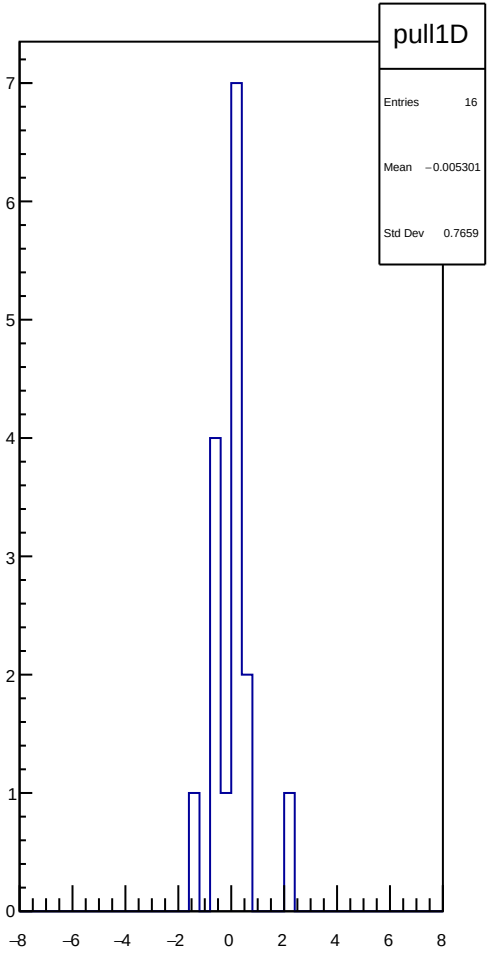

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 18.09 / 15
p0 −18.42 ± 0.2483
−15
−16
−17
−18
−19
−20
−21
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

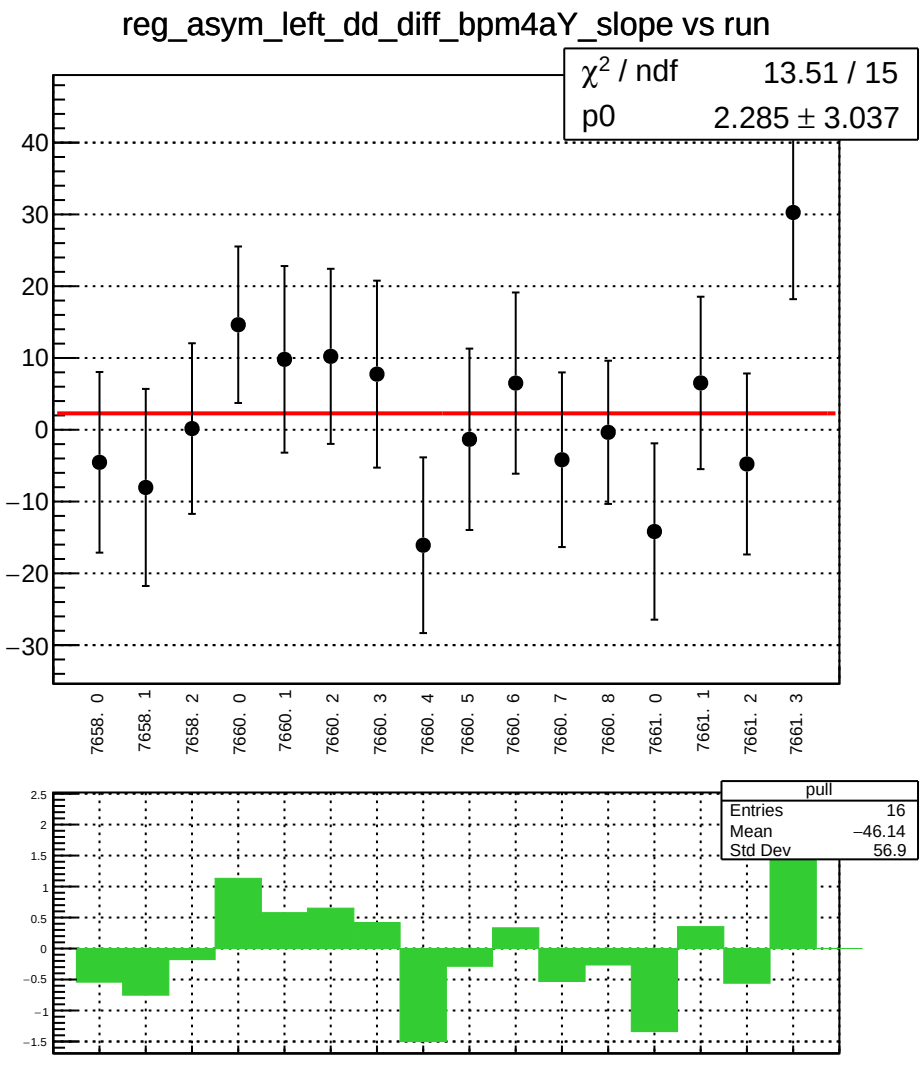

pull
Entries 16
Mean 18.53
Std Dev 6.376
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

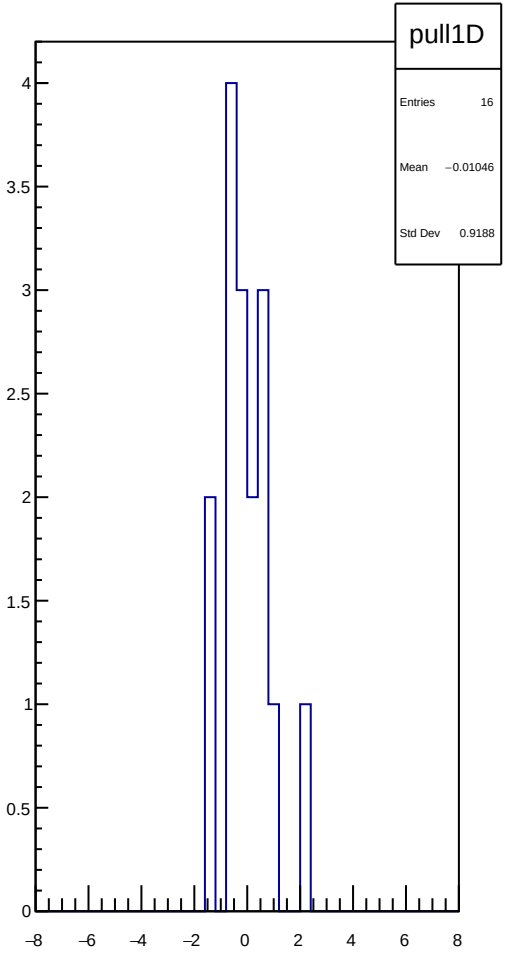

pull1D
Entries 16
Mean 0.04248
Std Dev 1.062
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

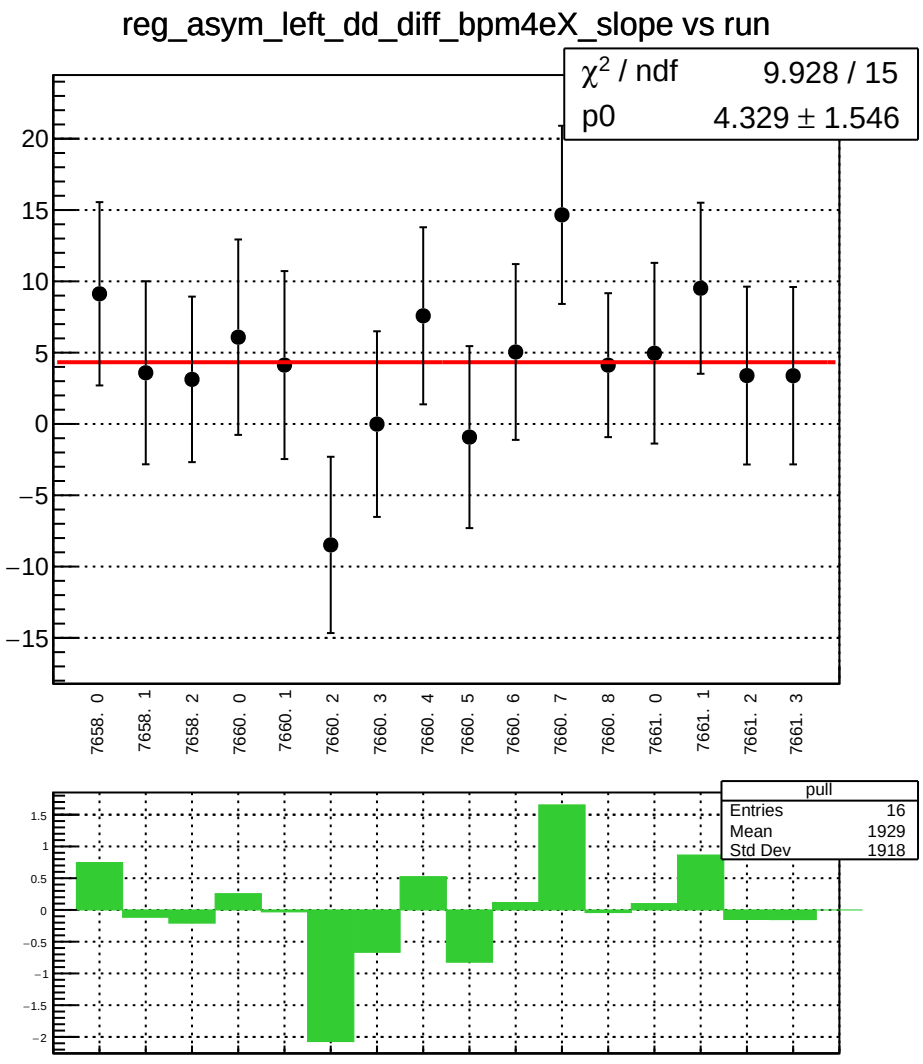

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 9.385 / 15
p0 −35.91 ± 1.881
−10
−20
−30
−40
−50
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

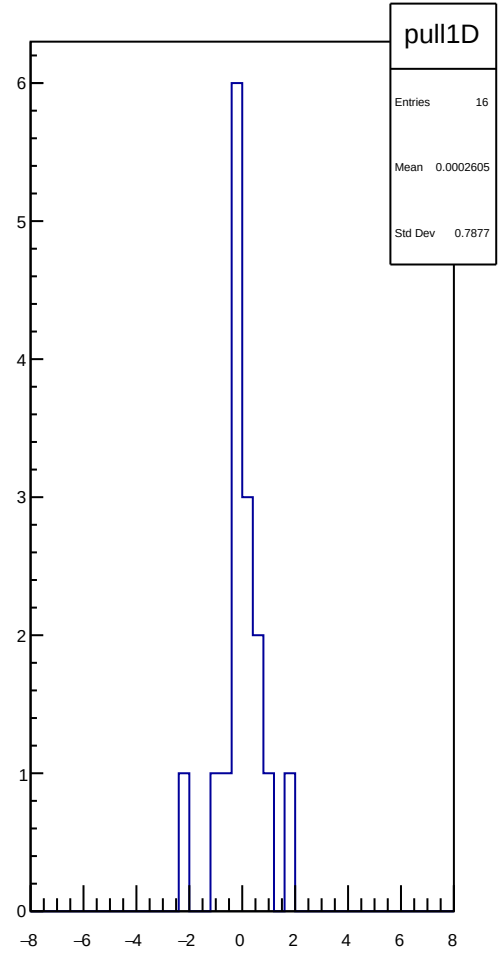

pull
Entries 16
Mean 81.24
Std Dev 69.7
2
1.5
1
0.5
0
−0.5
−1
−1.5

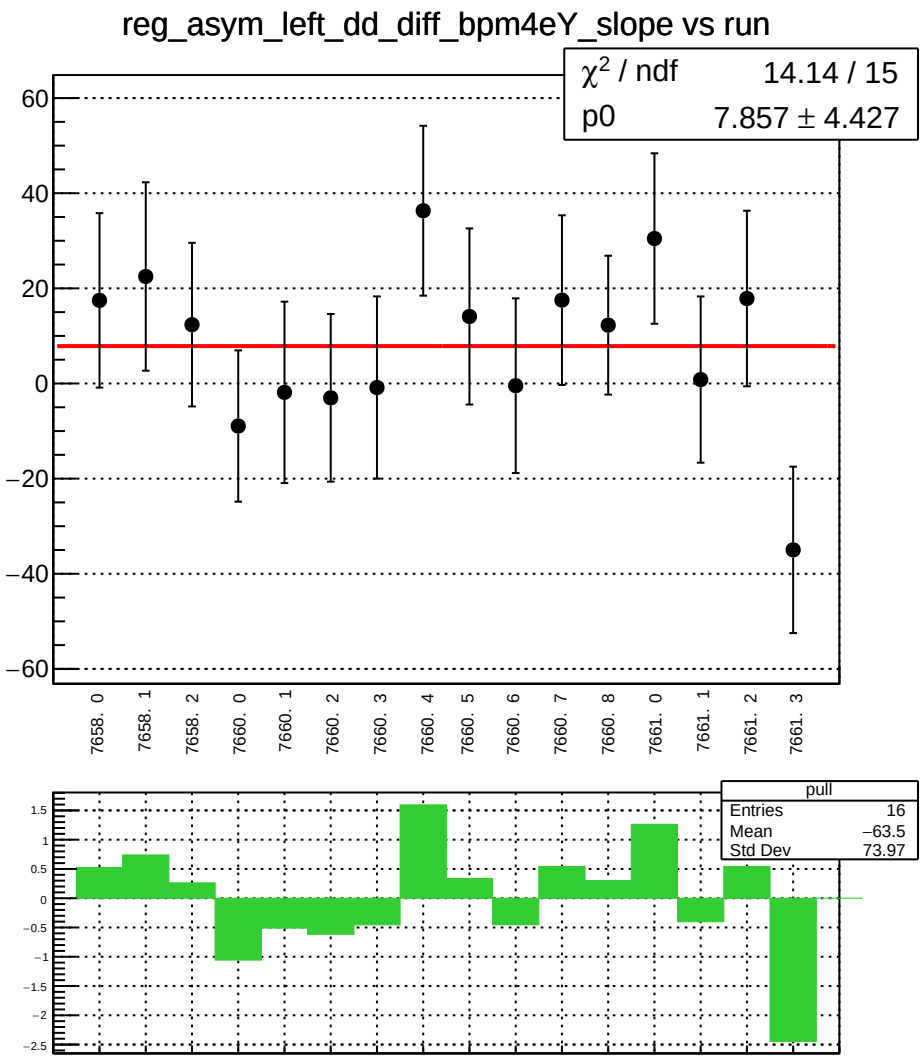

pull1D
Entries 16
Mean −0.005301
Std Dev 0.7659
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

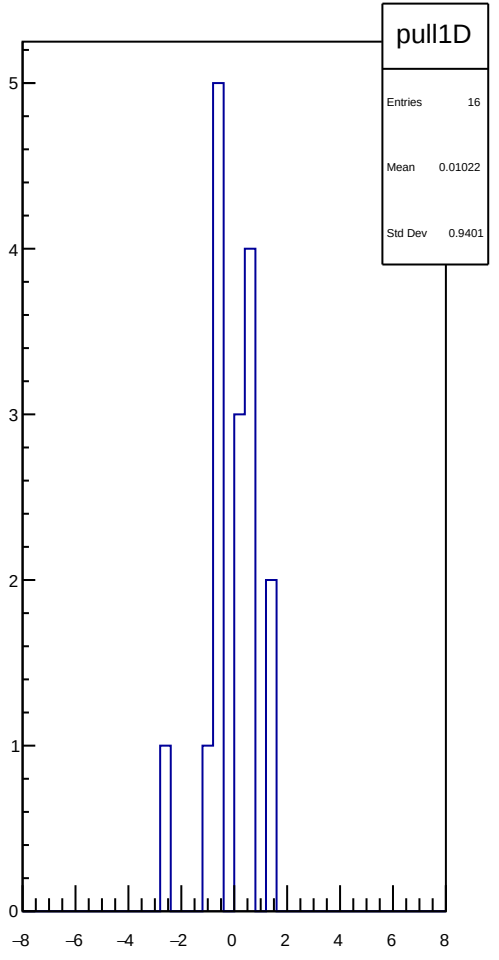

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 13.51 / 15
p0 2.285 ± 3.037
40
30
20
10
0
−10
−20
−30
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −46.14
Std Dev 56.9
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

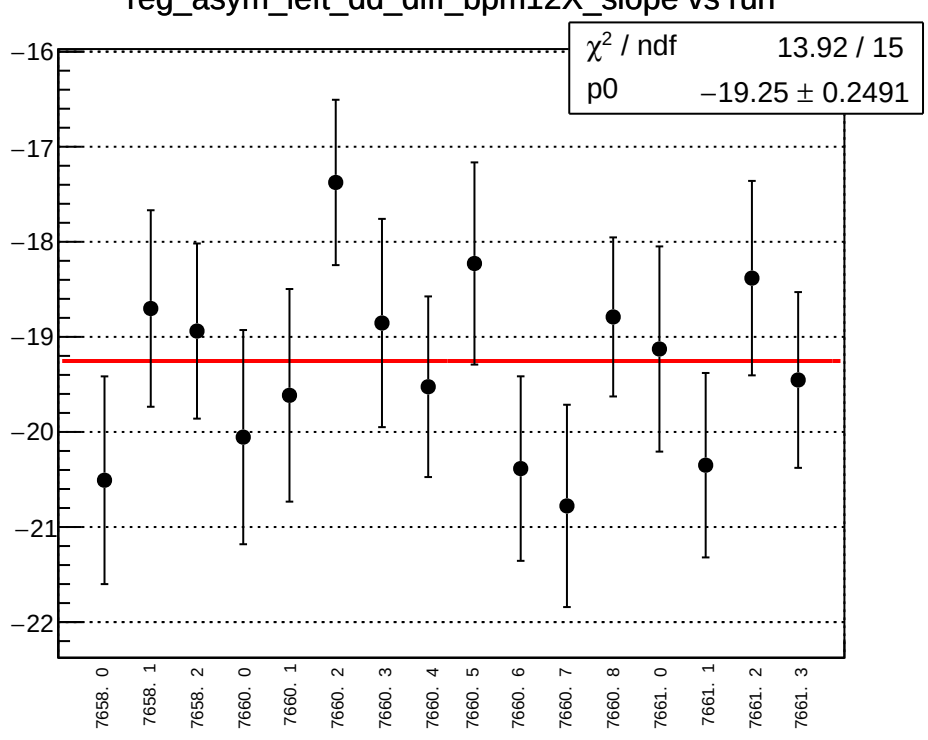

pull1D
Entries 16
Mean −0.01046
Std Dev 0.9188
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

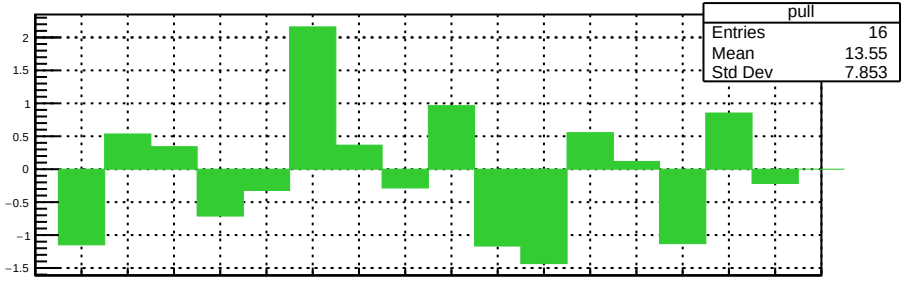

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.928 / 15
p0 4.329 ± 1.546
20
15
10
5
0
−5
−10
−15
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 1929
Std Dev 1918
1.5
1
0.5
0
−0.5
−1
−1.5
−2

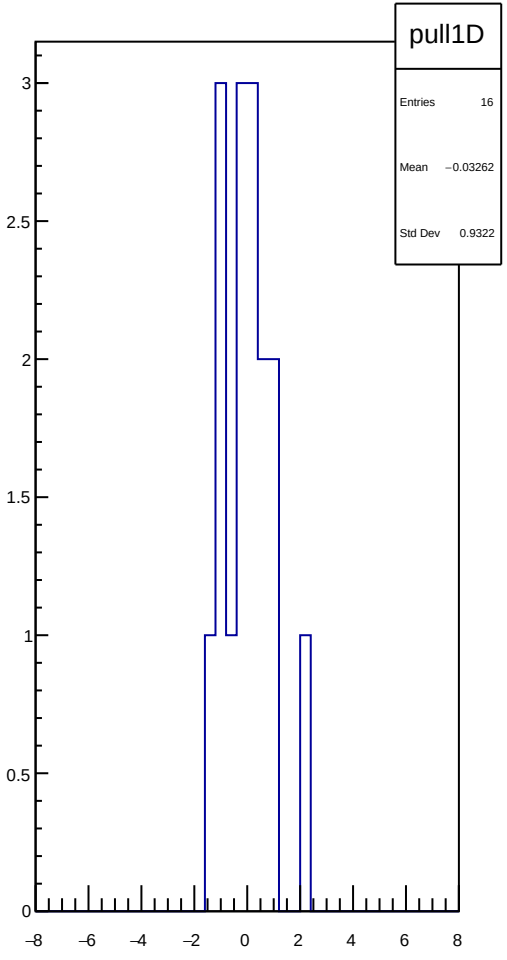

pull1D
Entries 16
Mean 0.0002605
Std Dev 0.7877
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

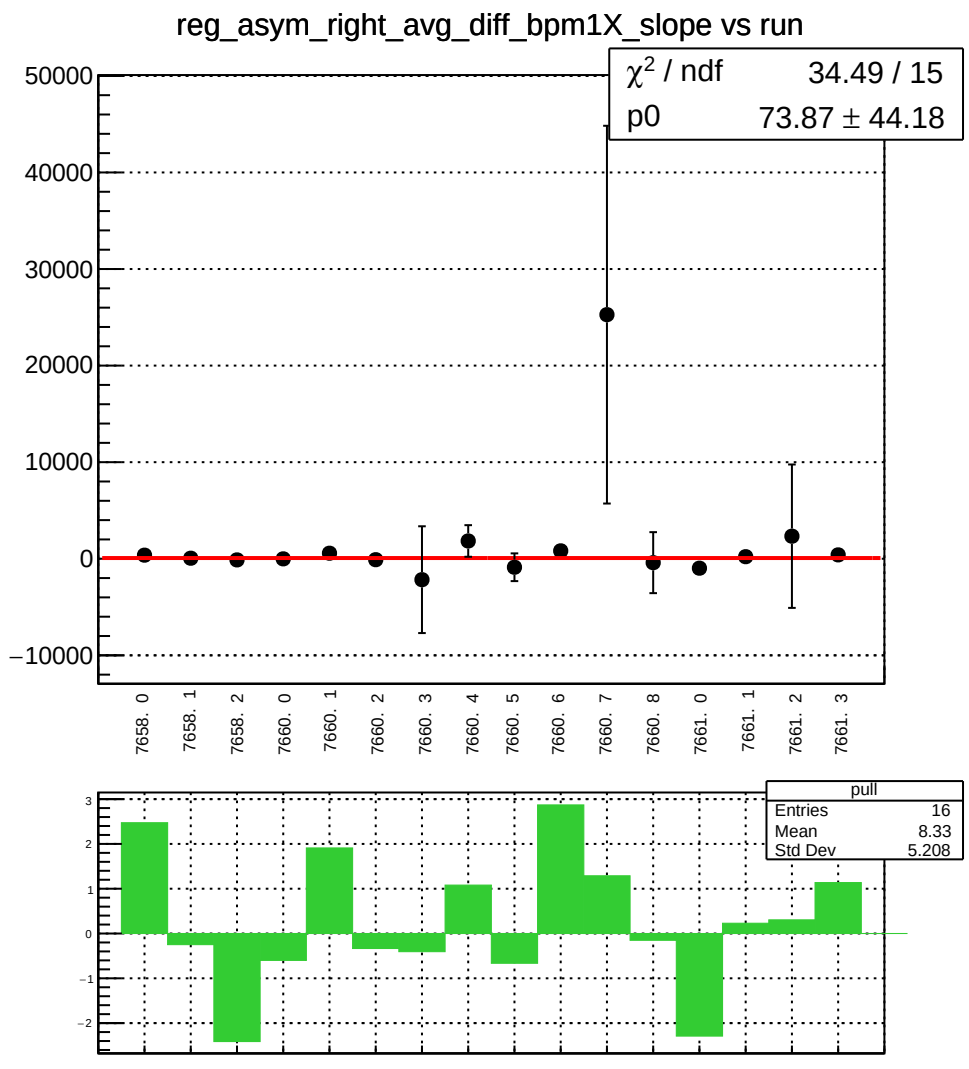

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 14.14 / 15
p0 7.857 ± 4.427
60
40
20
0
−20
−40
−60
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −63.5
Std Dev 73.97
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

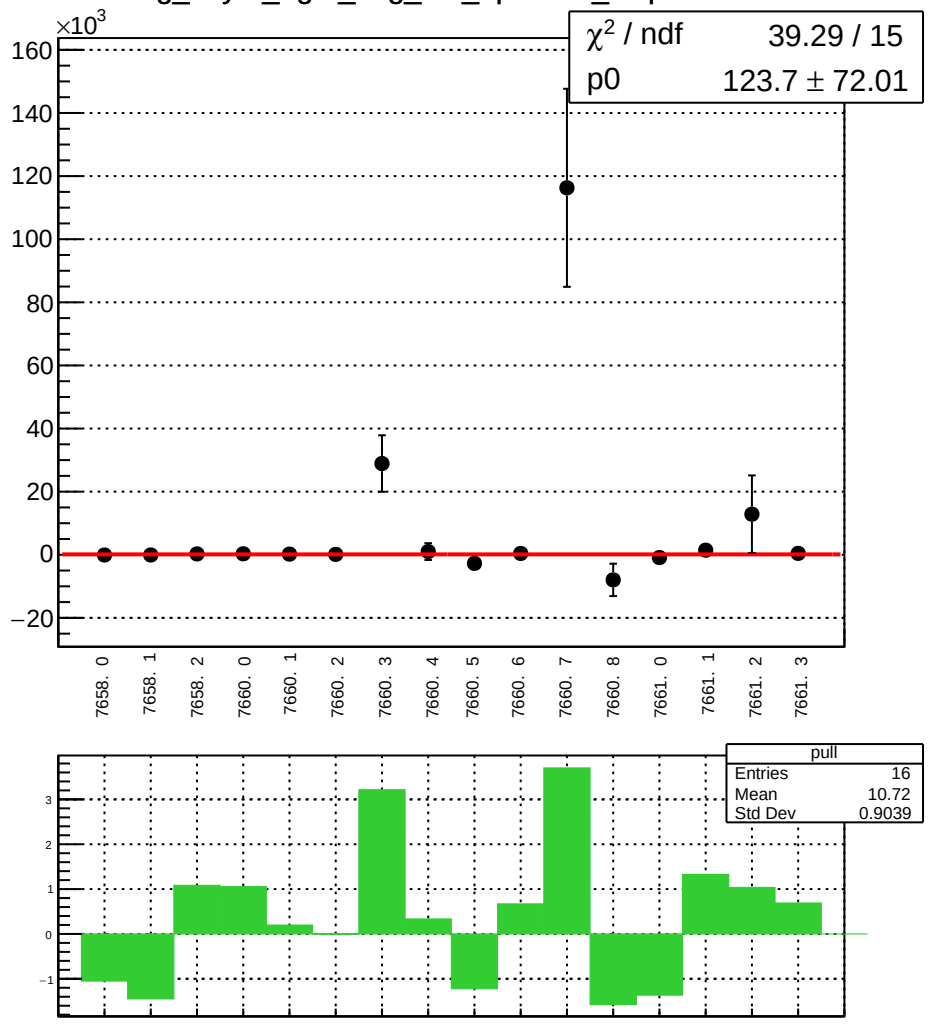

pull1D
Entries 16
Mean 0.01022
Std Dev 0.9401
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

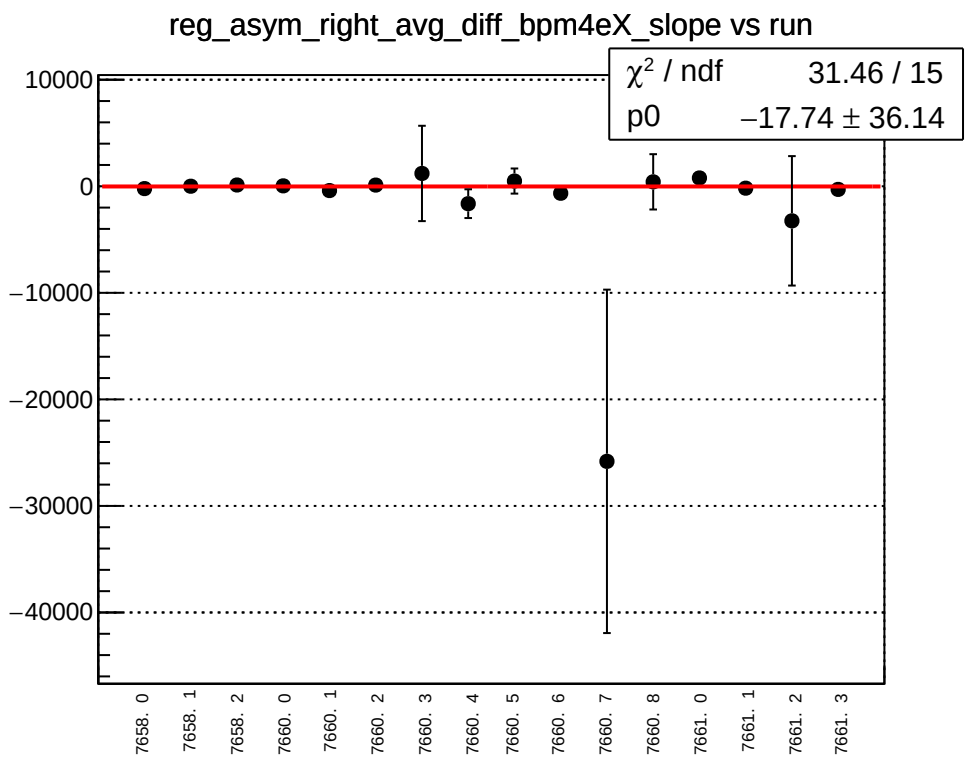

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 13.92 / 15
p0 −19.25 ± 0.2491
−16
−17
−18
−19
−20
−21
−22
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

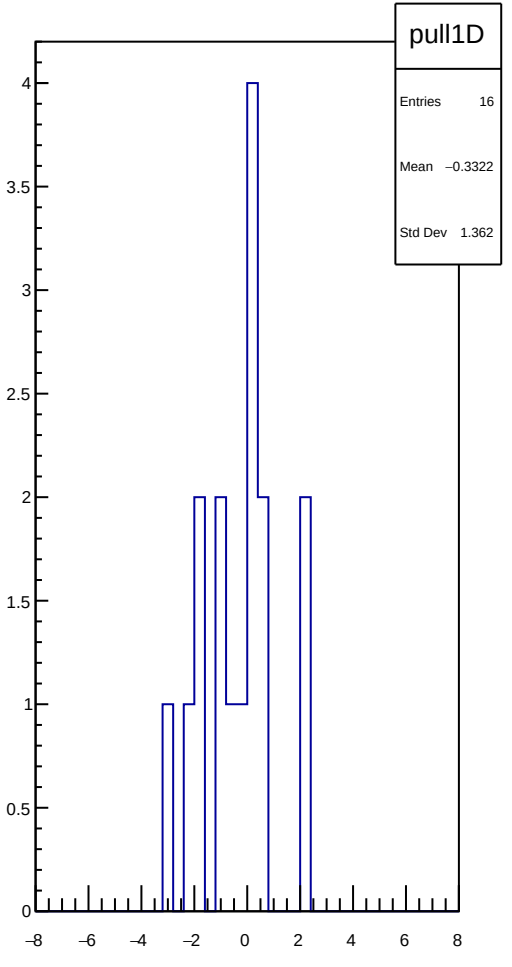

pull
Entries 16
Mean 13.55
Std Dev 7.853
2
1.5
1
0.5
0
−0.5
−1
−1.5

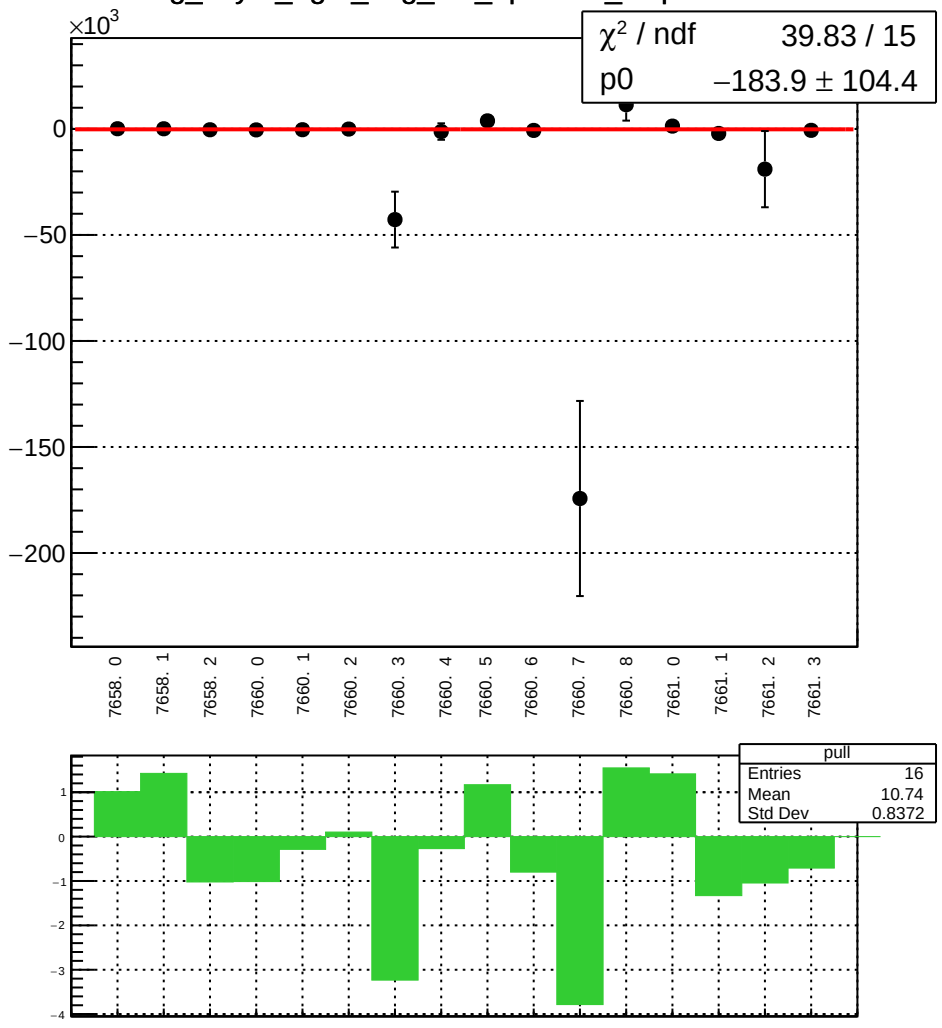

pull1D
Entries 16
Mean −0.03262
Std Dev 0.9322
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

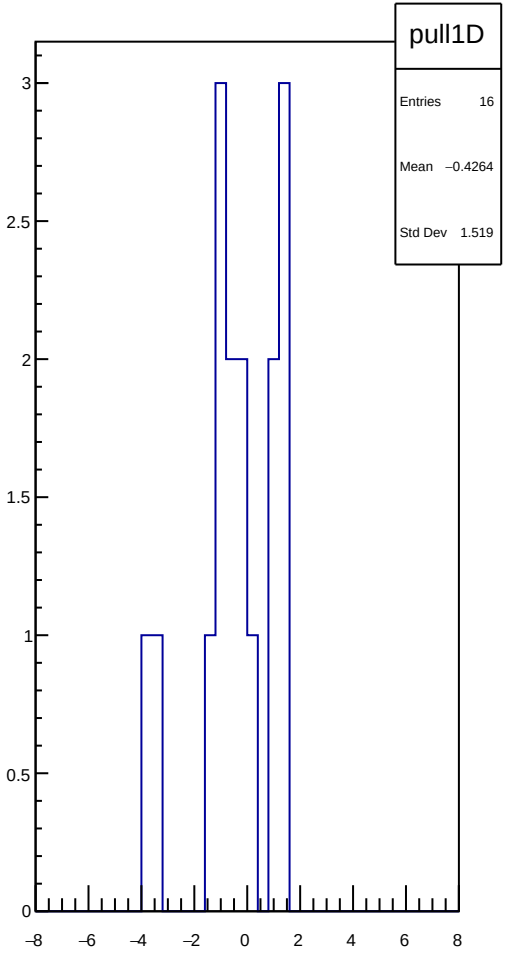

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 34.49 / 15
p0 73.87 ± 44.18
50000
40000
30000
20000
10000
0
−10000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 8.33
Std Dev 5.208
3
2
1
0
−1
−2
pull1D
Entries 16
Mean 0.2618
Std Dev 1.445
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

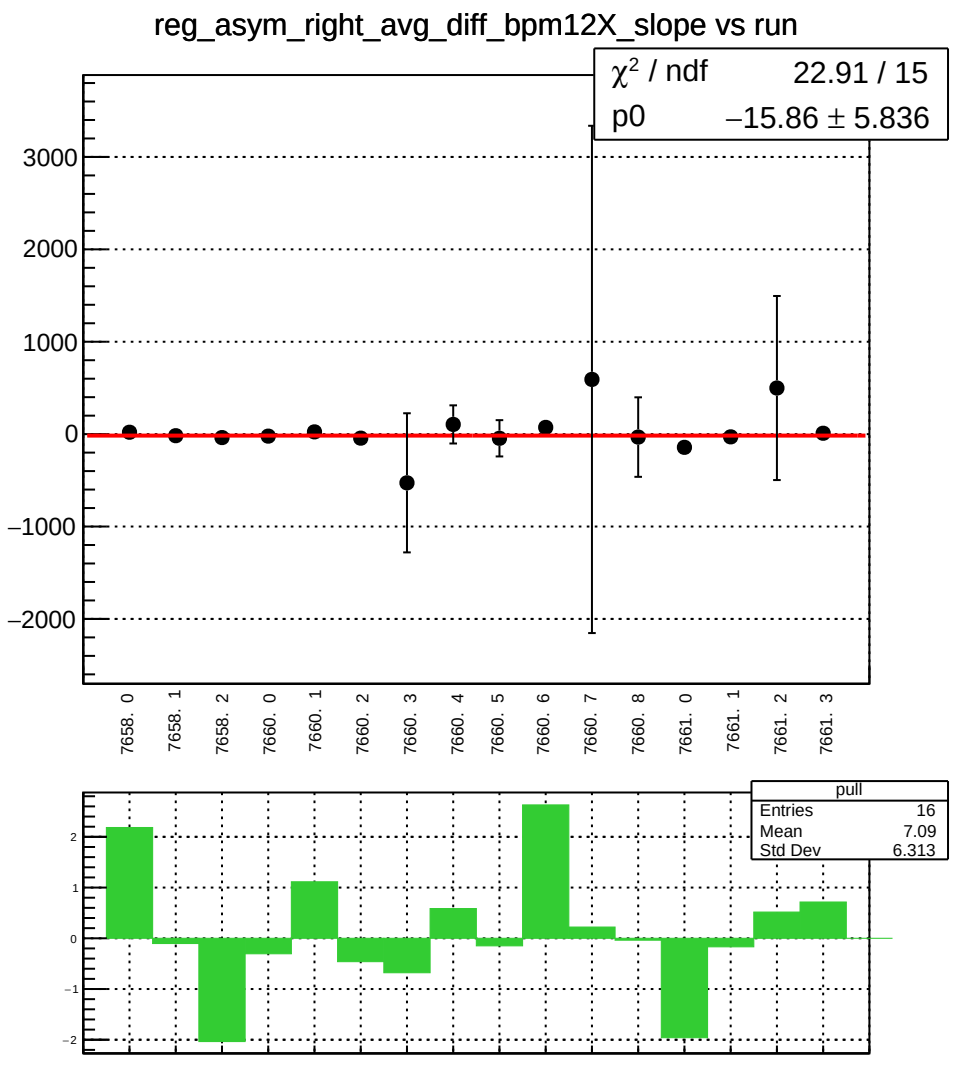

reg_asym_right_avg_diff_bpm4aY_slope vs run
×10^3
χ^2 / ndf 39.29 / 15
p0 123.7 ± 72.01
160
140
120
100
80
60
40
20
0
−20
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 10.72
Std Dev 0.9039
3
2
1
0
−1
pull1D
Entries 16
Mean 0.416
Std Dev 1.511
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

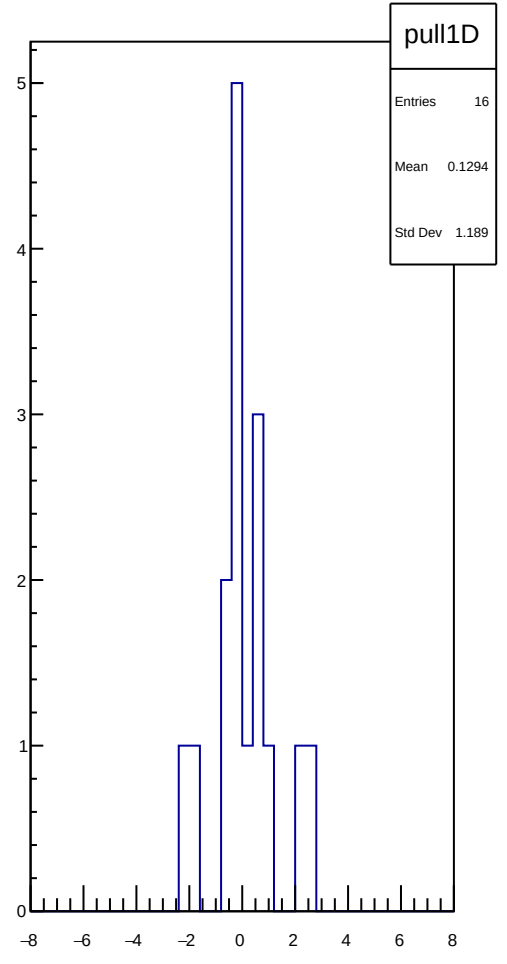

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 31.46 / 15
p0 −17.74 ± 36.14
10000
0
−10000
−20000
−30000
−40000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 9.4
Std Dev 4.382
2
1
0
−1
−2
−3

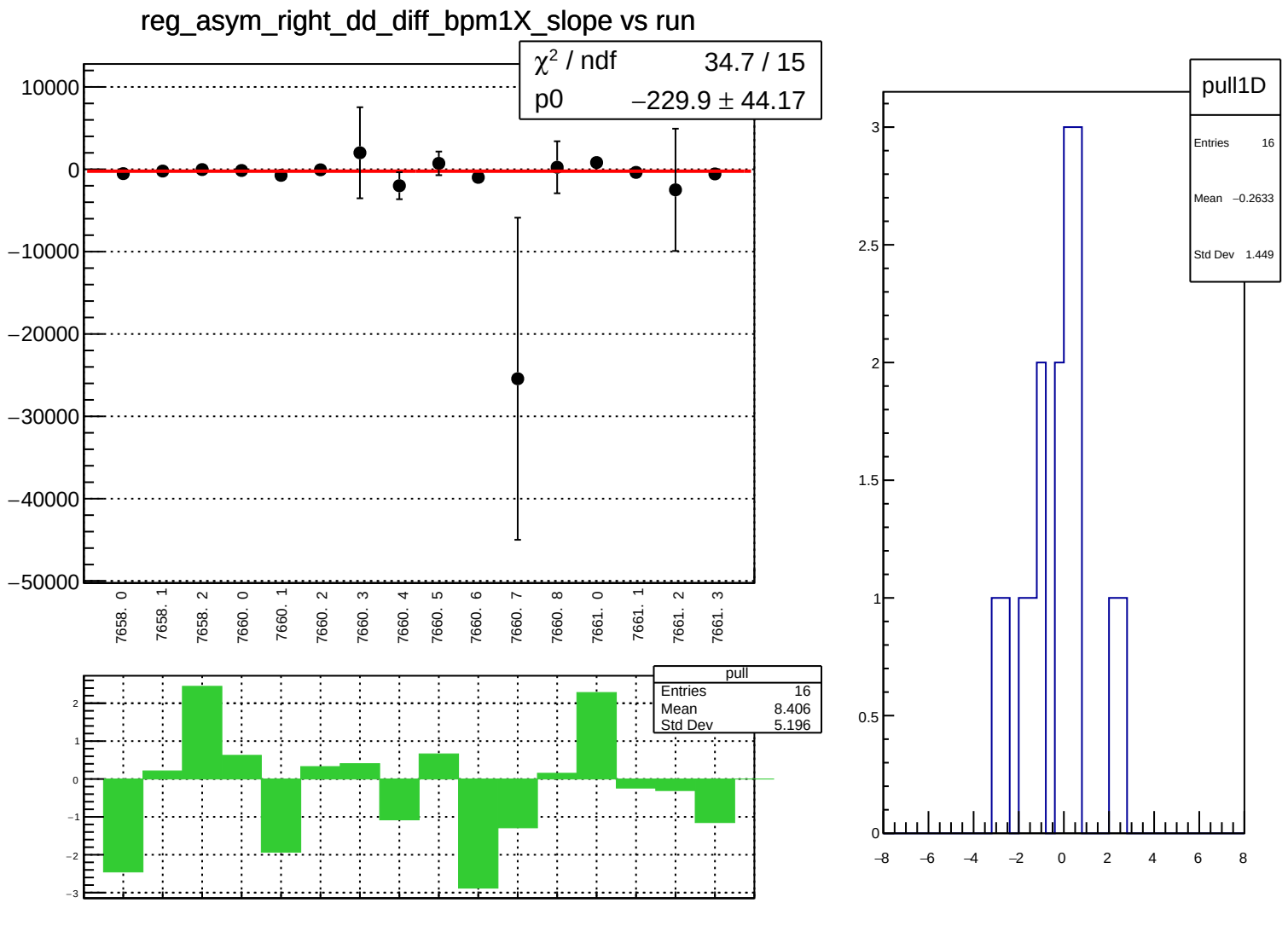

pull1D
Entries 16
Mean −0.3322
Std Dev 1.362
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

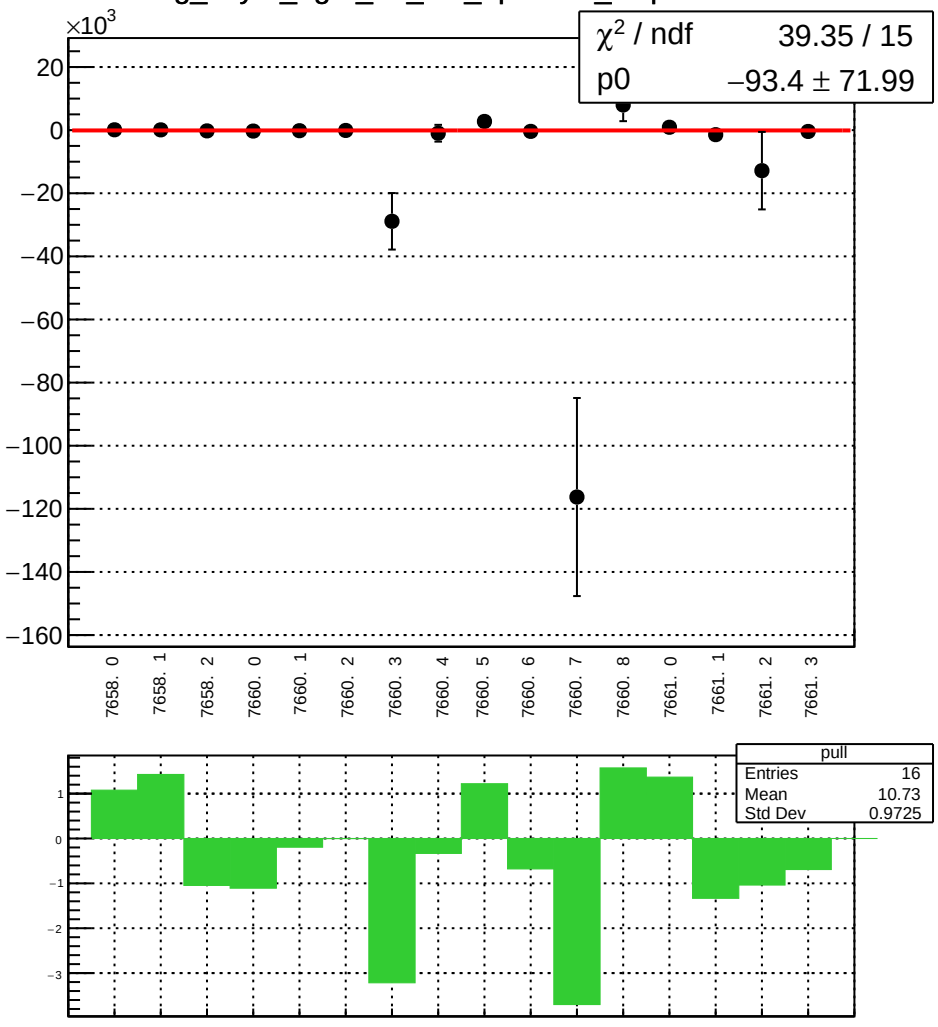

reg_asym_right_avg_diff_bpm4eY_slope vs run
×10^3
χ² / ndf 39.83 / 15
p0 −183.9 ± 104.4
0
−50
−100
−150
−200
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 10.74
Std Dev 0.8372
1
0
−1
−2
−3
−4

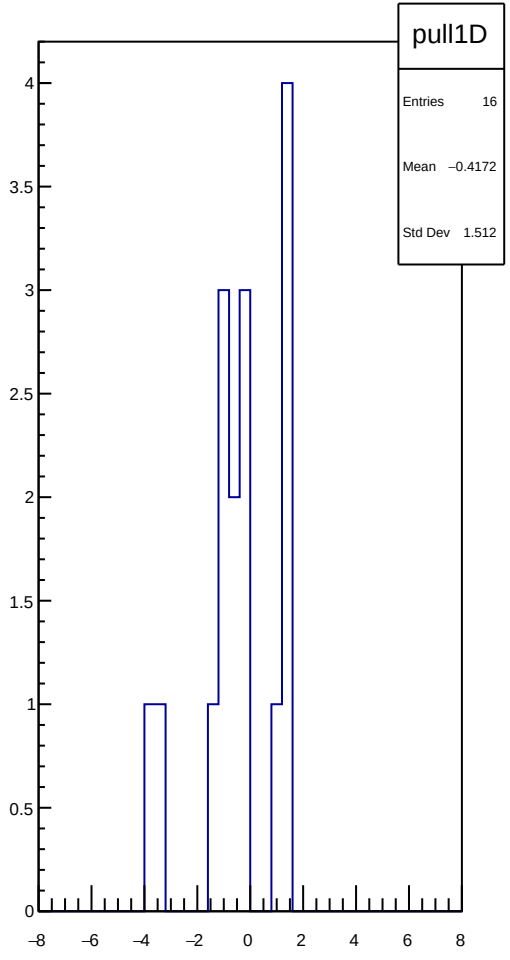

pull1D
Entries 16
Mean −0.4264
Std Dev 1.519
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

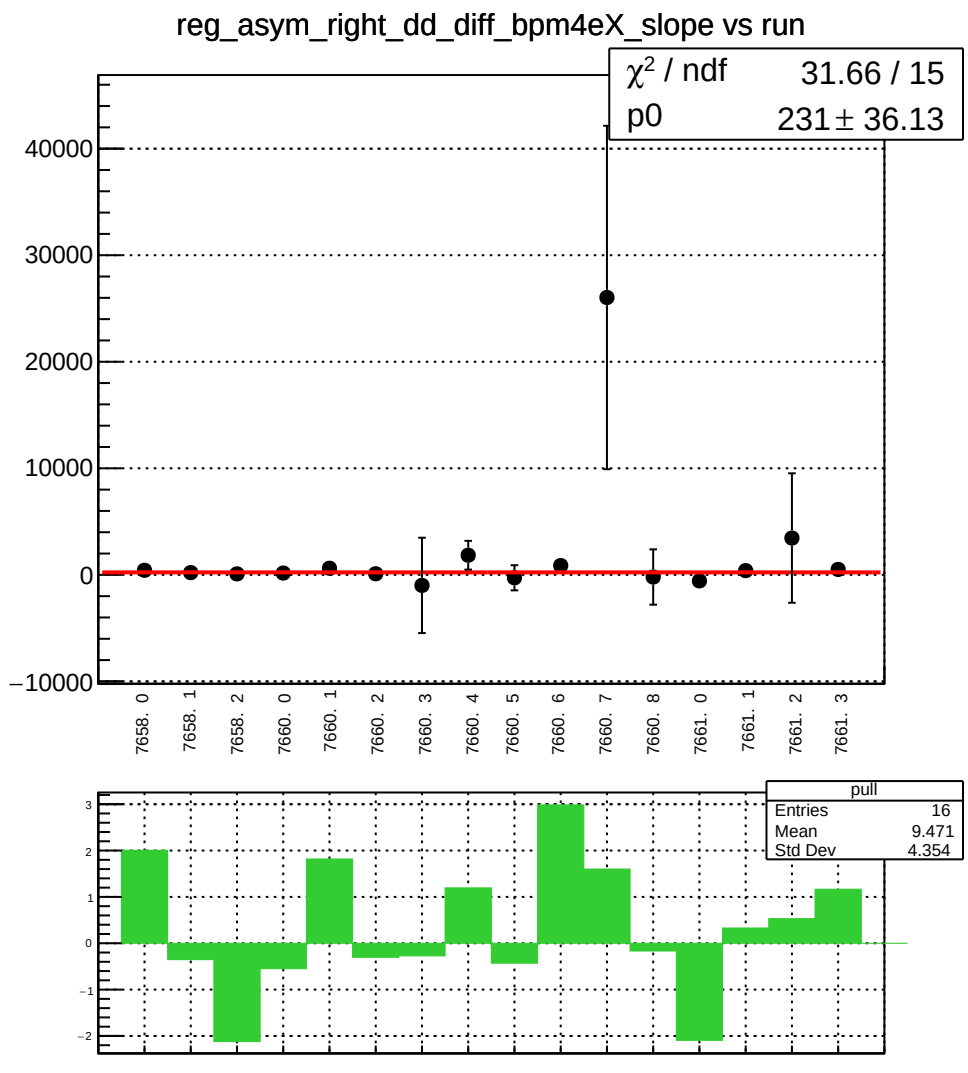

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 22.91 / 15
p0 −15.86 ± 5.836
3000
2000
1000
0
−1000
−2000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 7.09
Std Dev 6.313
2
1
0
−1
−2

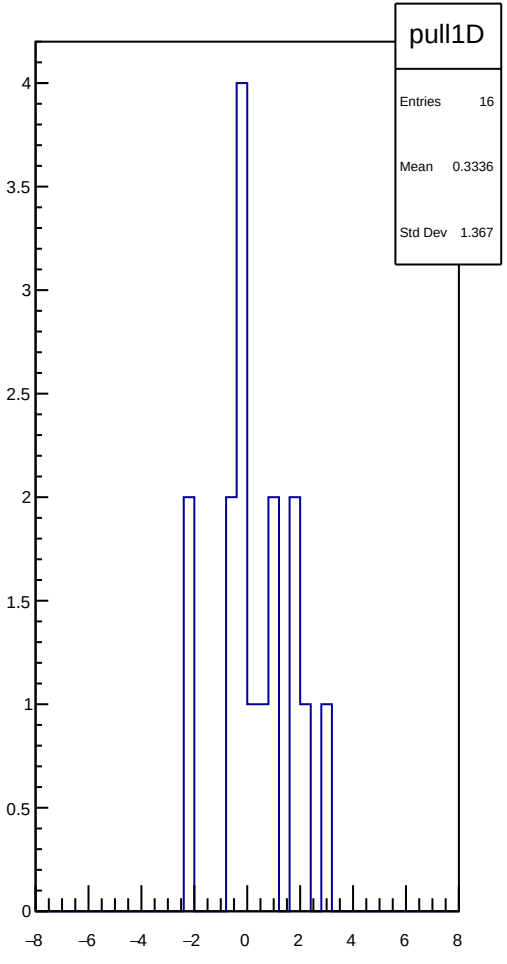

pull1D
Entries 16
Mean 0.1294
Std Dev 1.189
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

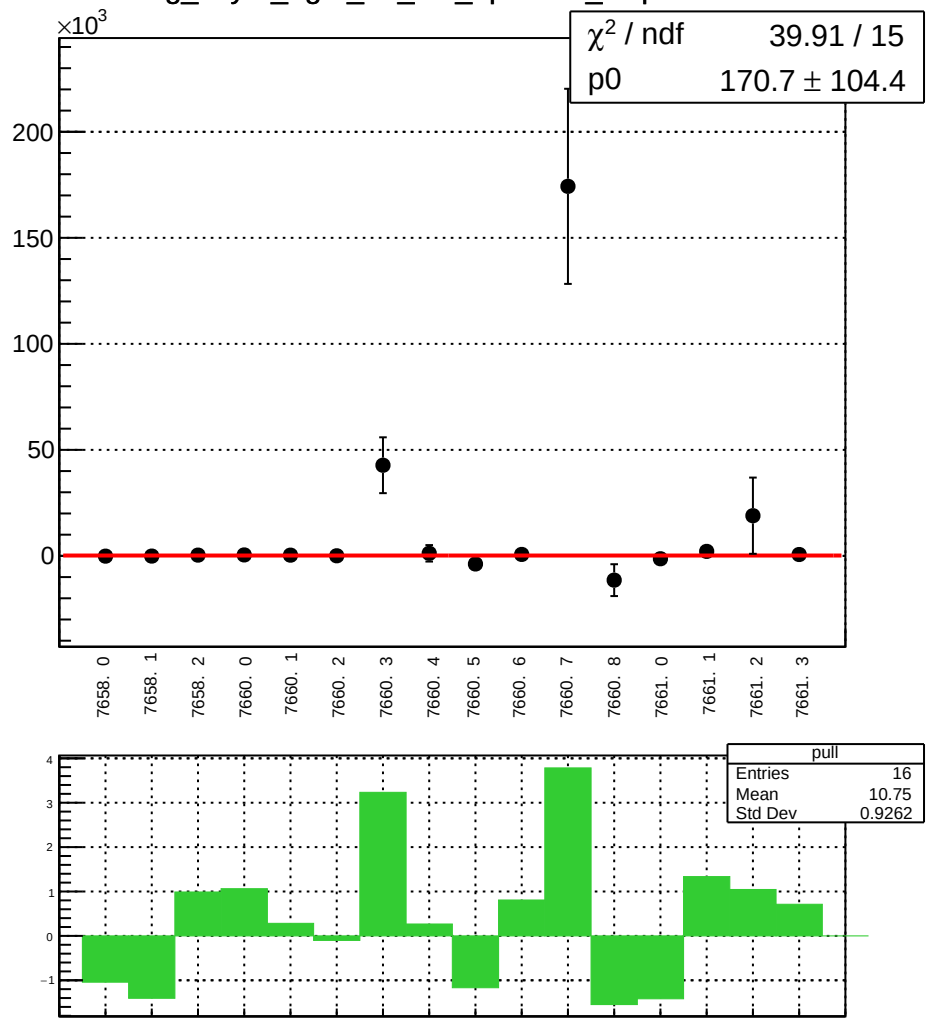

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 34.7 / 15
p0 −229.9 ± 44.17
10000
0
−10000
−20000
−30000
−40000
−50000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 8.406
Std Dev 5.196
pull1D
Entries 16
Mean −0.2633
Std Dev 1.449

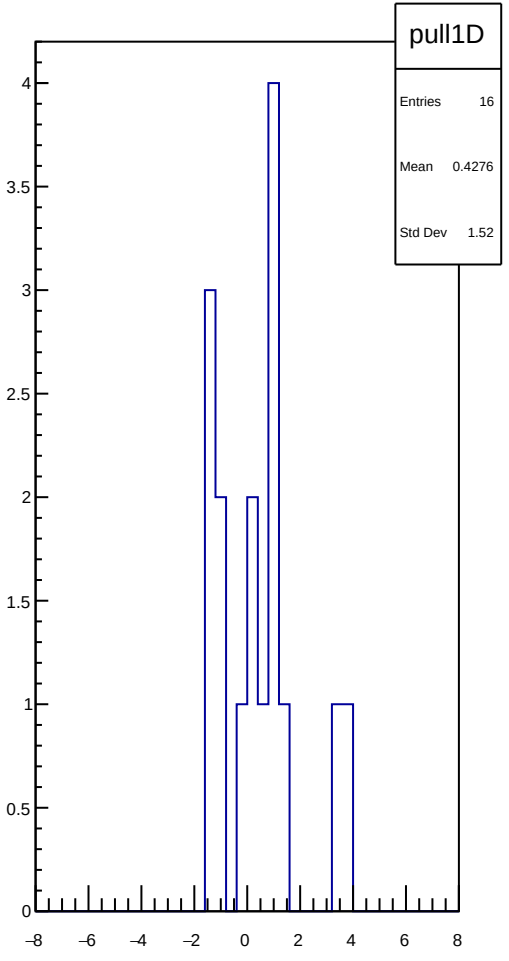

reg_asym_right_dd_diff_bpm4aY_slope vs run
×10^3
χ^2 / ndf 39.35 / 15
p0 −93.4 ± 71.99
20
0
−20
−40
−60
−80
−100
−120
−140
−160
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 10.73
Std Dev 0.9725
1
0
−1
−2
−3

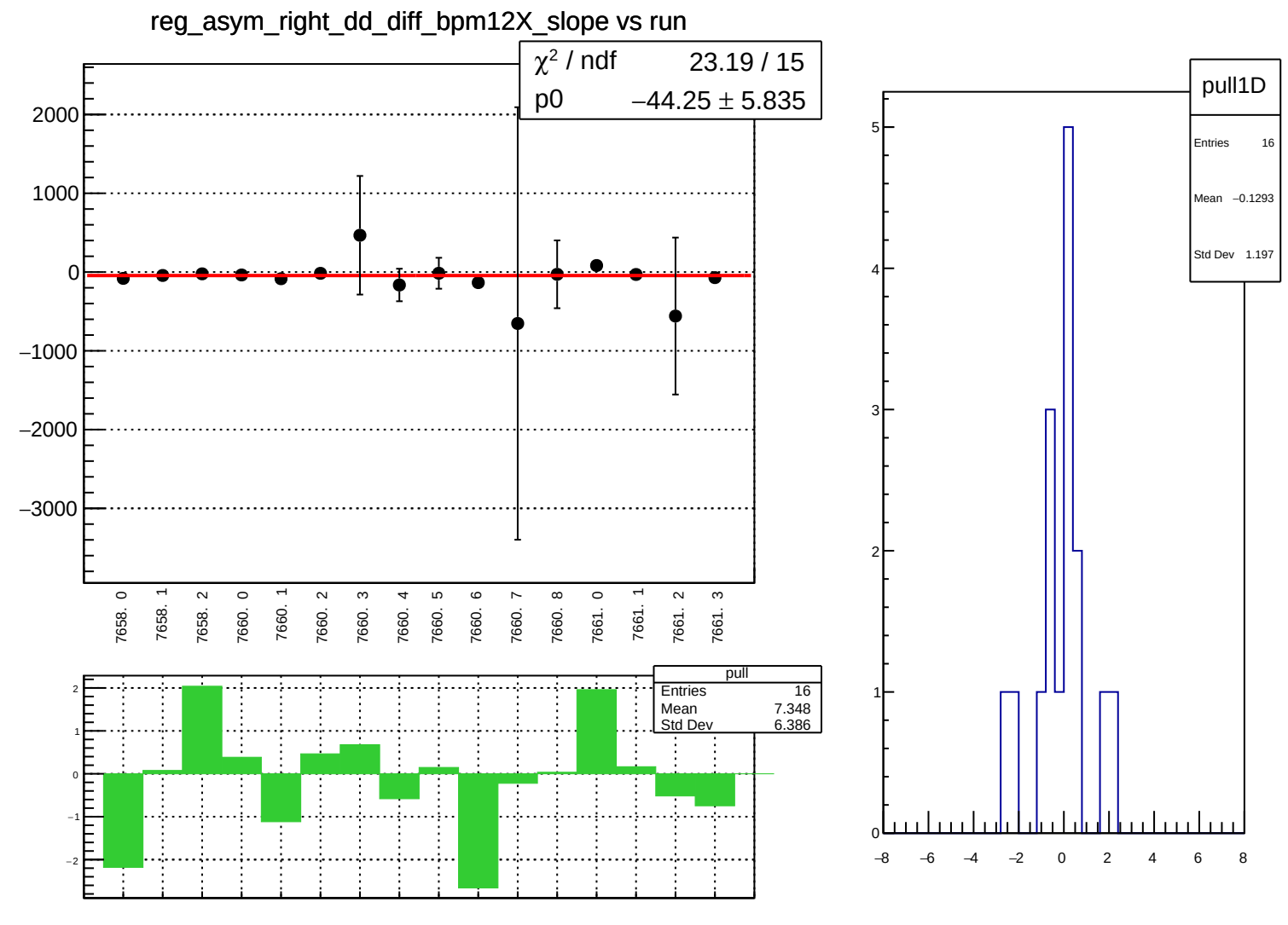

pull1D
Entries 16
Mean −0.4172
Std Dev 1.512
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

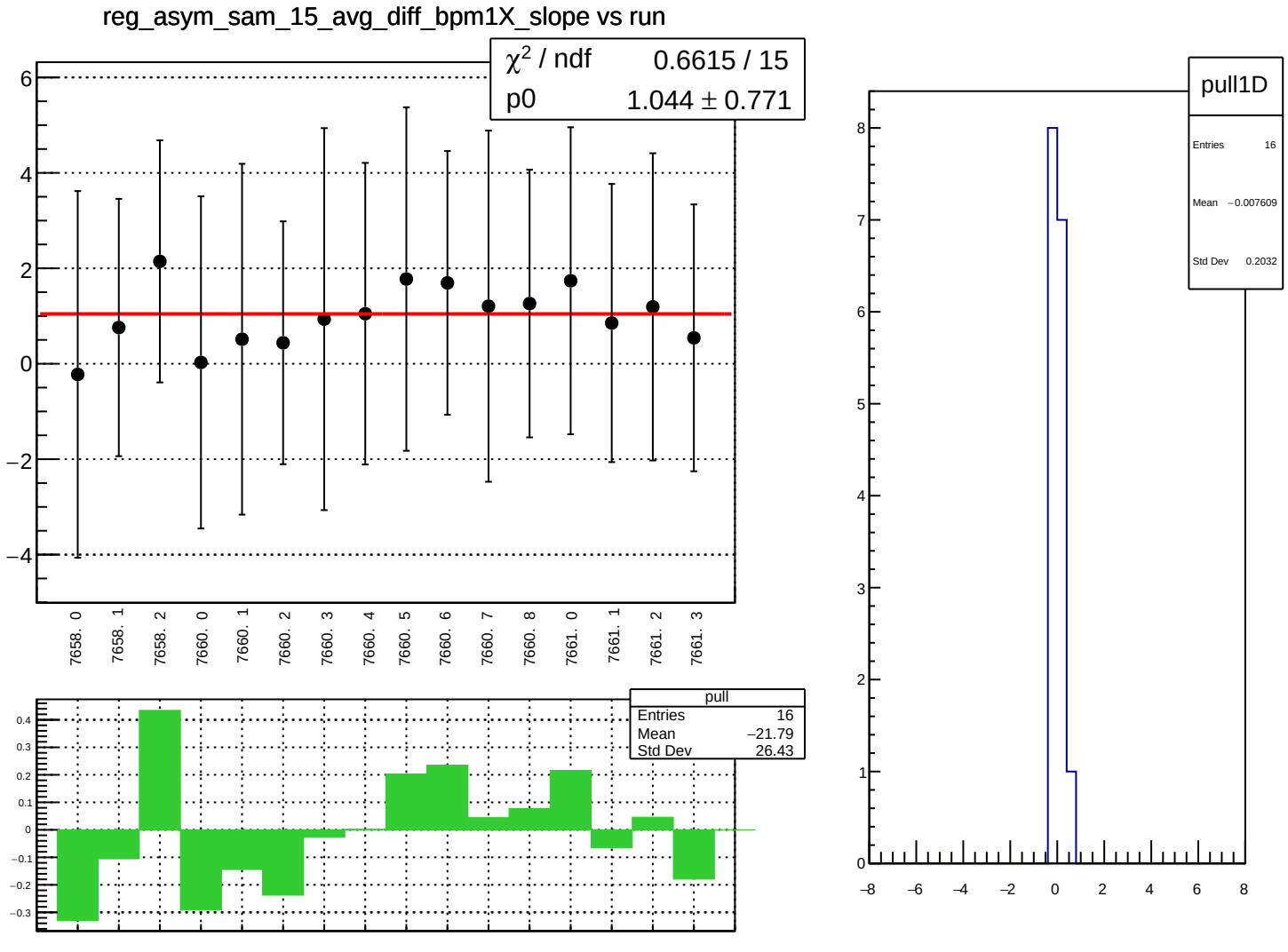

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 31.66 / 15
p0 231 ± 36.13
40000
30000
20000
10000
0
−10000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 9.471
Std Dev 4.354
3
2
1
0
−1
−2

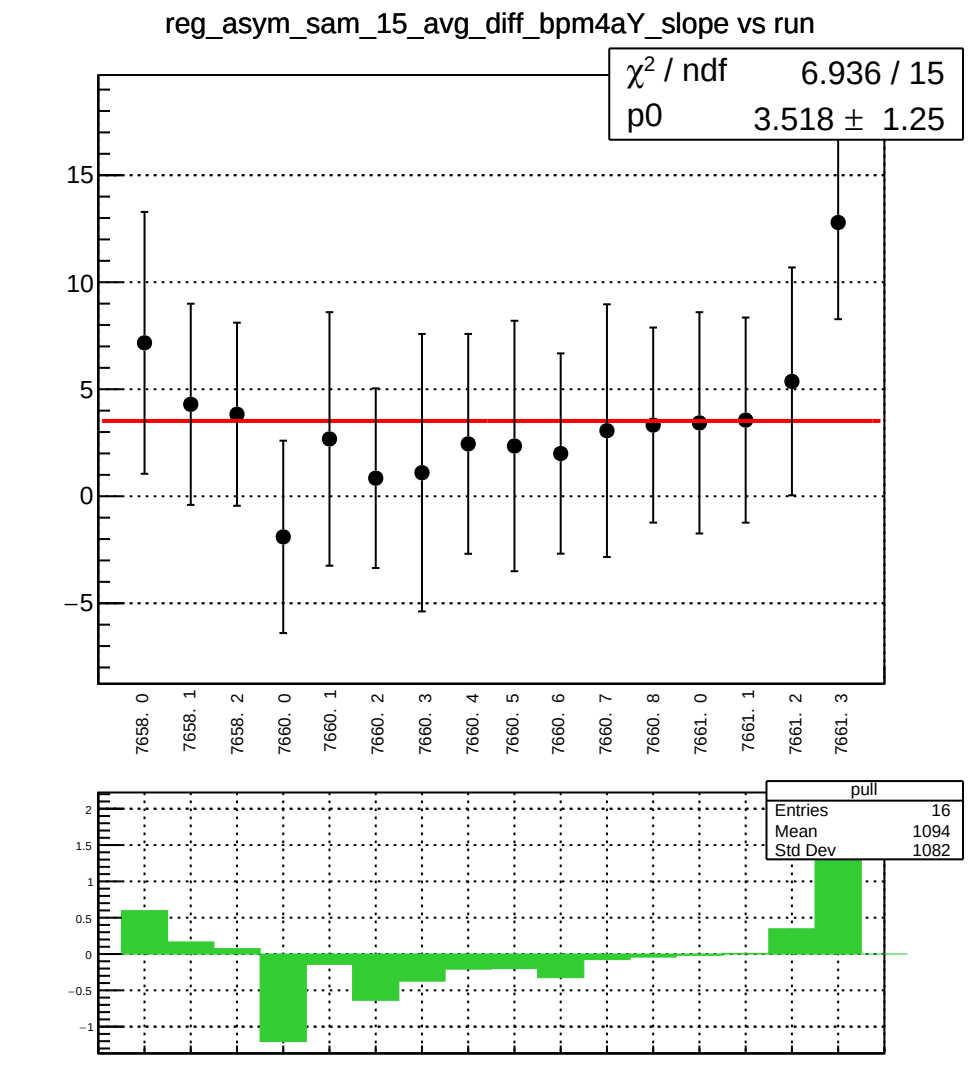

pull1D
Entries 16
Mean 0.3336
Std Dev 1.367
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

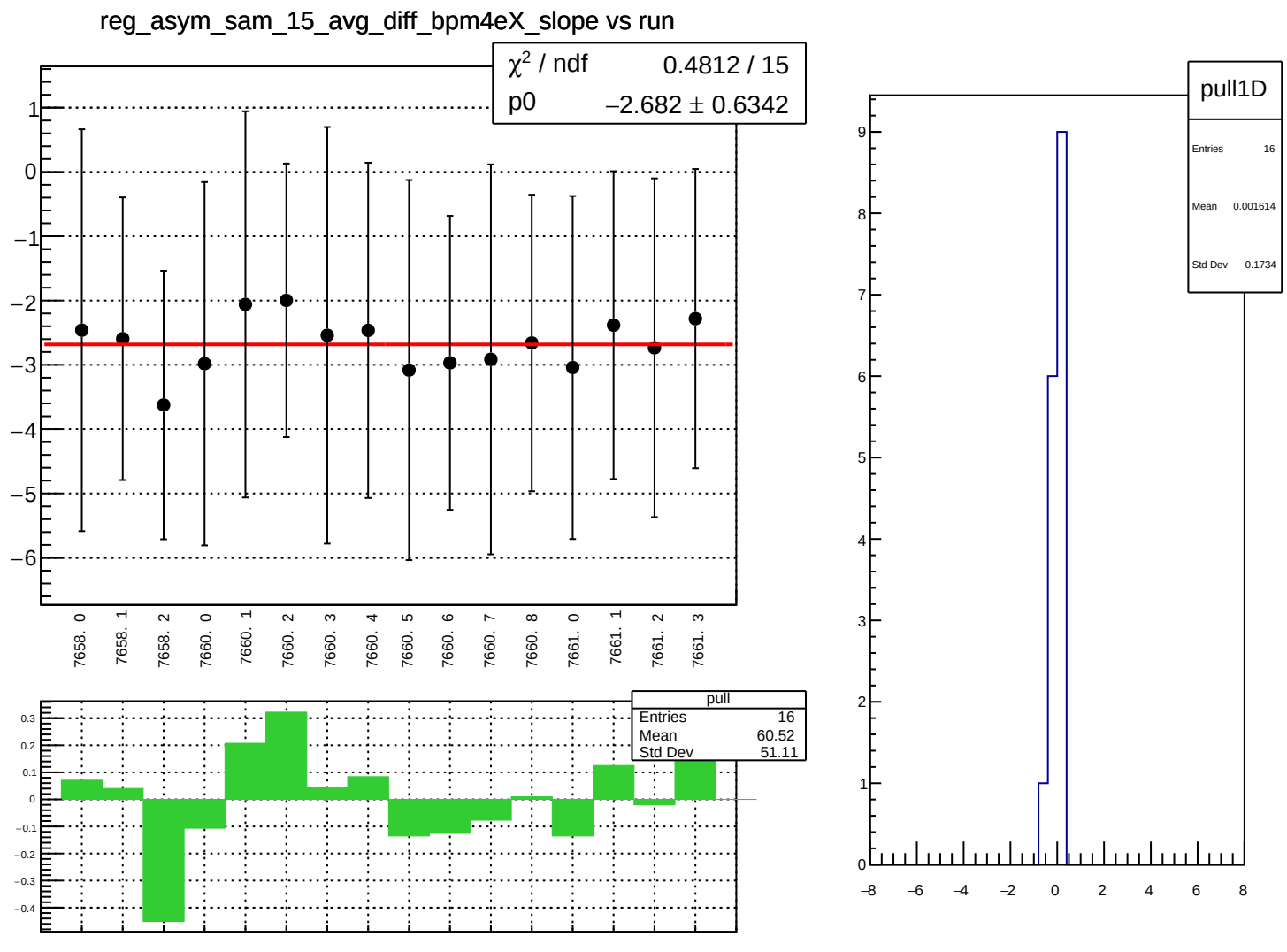

reg_asym_right_dd_diff_bpm4eY_slope vs run
×10^3
χ^2 / ndf 39.91 / 15
p0 170.7 ± 104.4
200
150
100
50
0
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 10.75
Std Dev 0.9262
4
3
2
1
0
−1

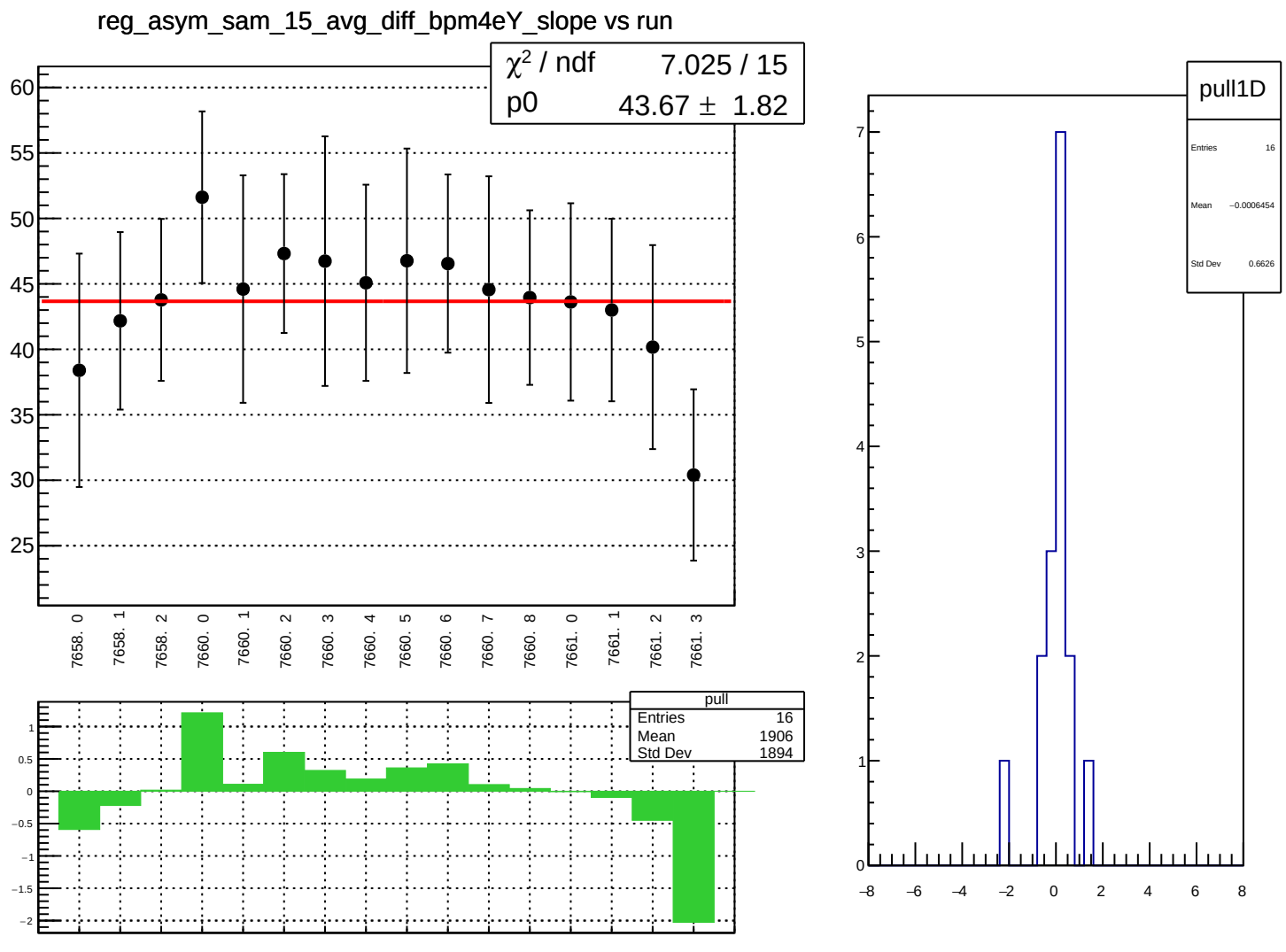

pull1D
Entries 16
Mean 0.4276
Std Dev 1.52
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

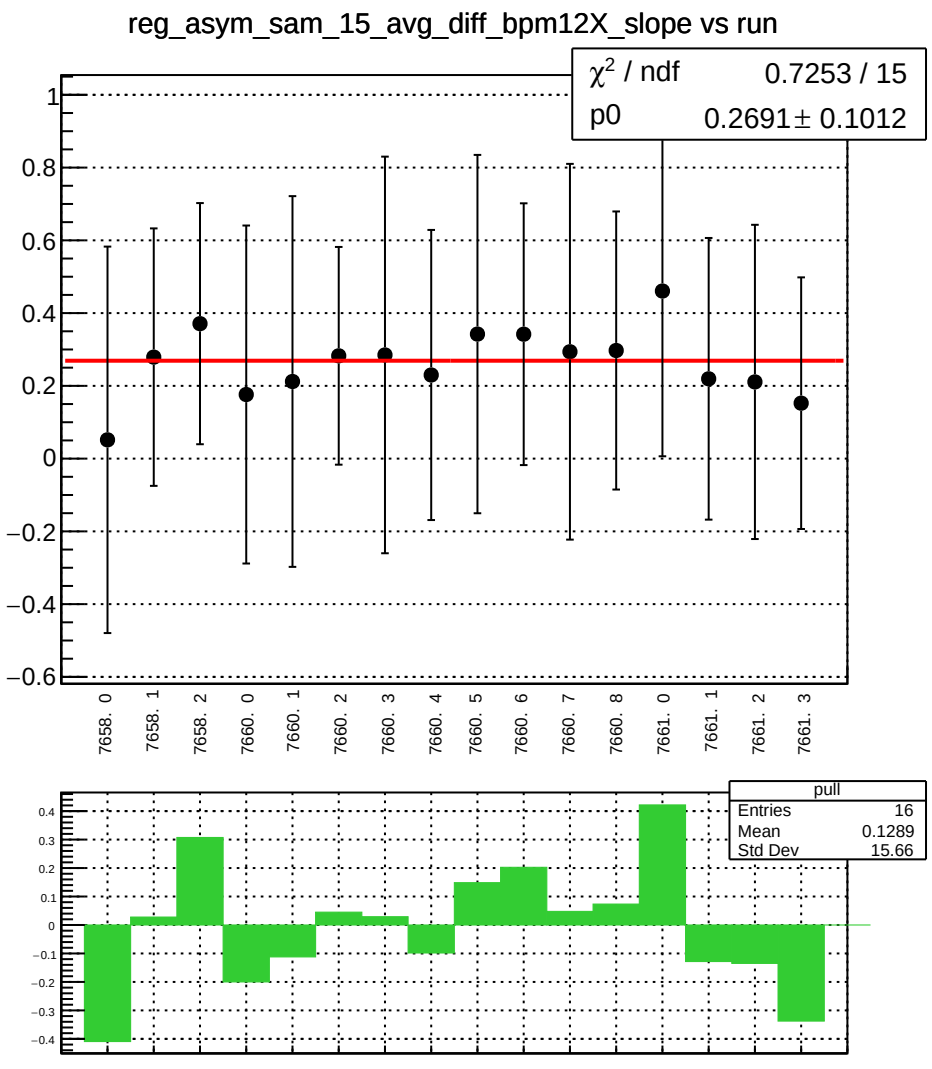

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 23.19 / 15
p0 −44.25 ± 5.835
2000
1000
0
−1000
−2000
−3000
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 7.348
Std Dev 6.386
pull1D
Entries 16
Mean −0.1293
Std Dev 1.197

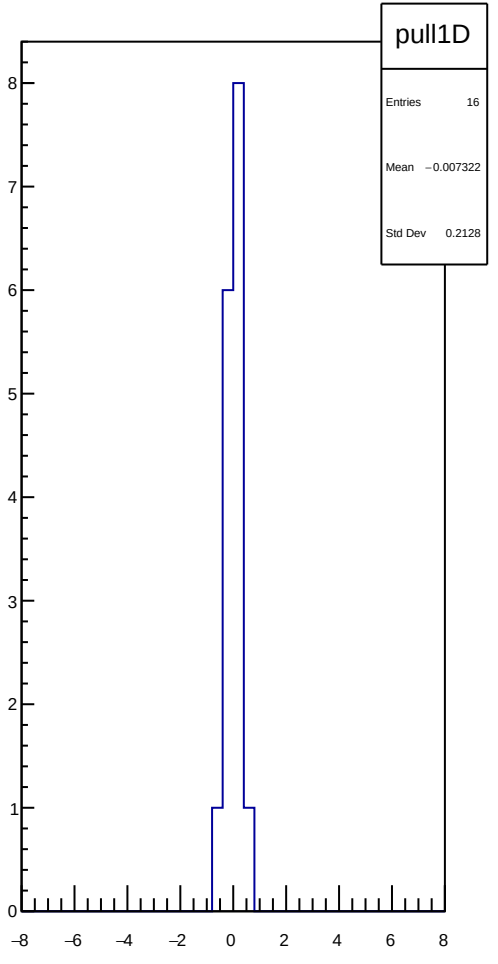

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 0.6615 / 15
p0 1.044 ± 0.771
6
4
2
0
−2
−4
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −21.79
Std Dev 26.43
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 16
Mean −0.007609
Std Dev 0.2032
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

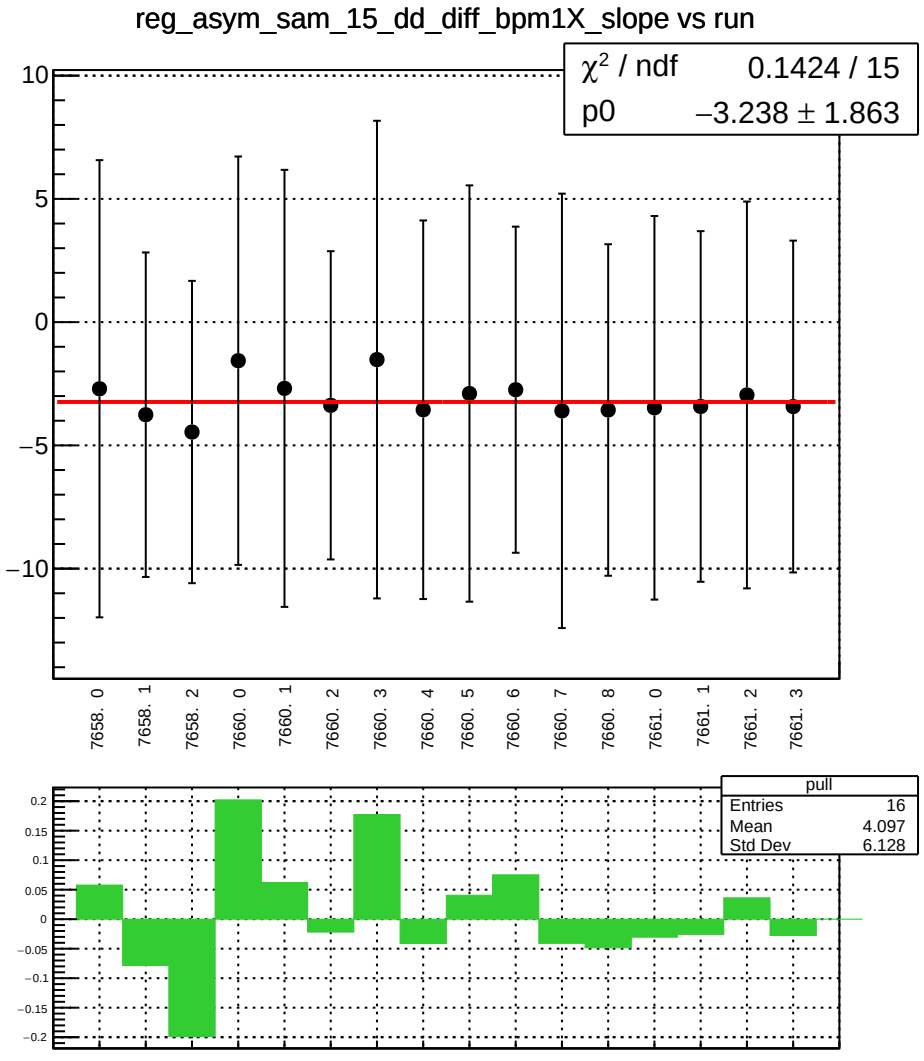

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.936 / 15
p0 3.518 ± 1.25
15
10
5
0
−5
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 1094
Std Dev 1082
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 16
Mean 0.001089
Std Dev 0.6584
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

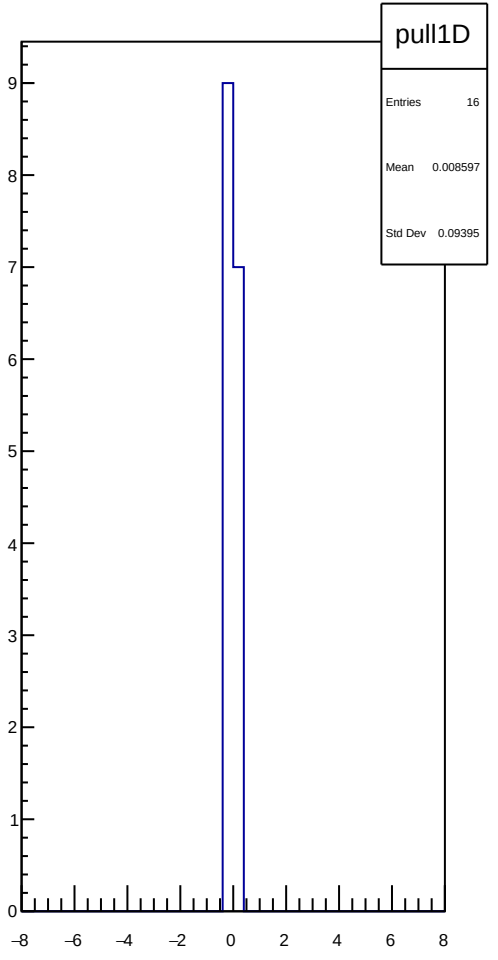

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 0.4812 / 15
p0 −2.682 ± 0.6342
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 60.52
Std Dev 51.11
pull1D
Entries 16
Mean 0.001614
Std Dev 0.1734

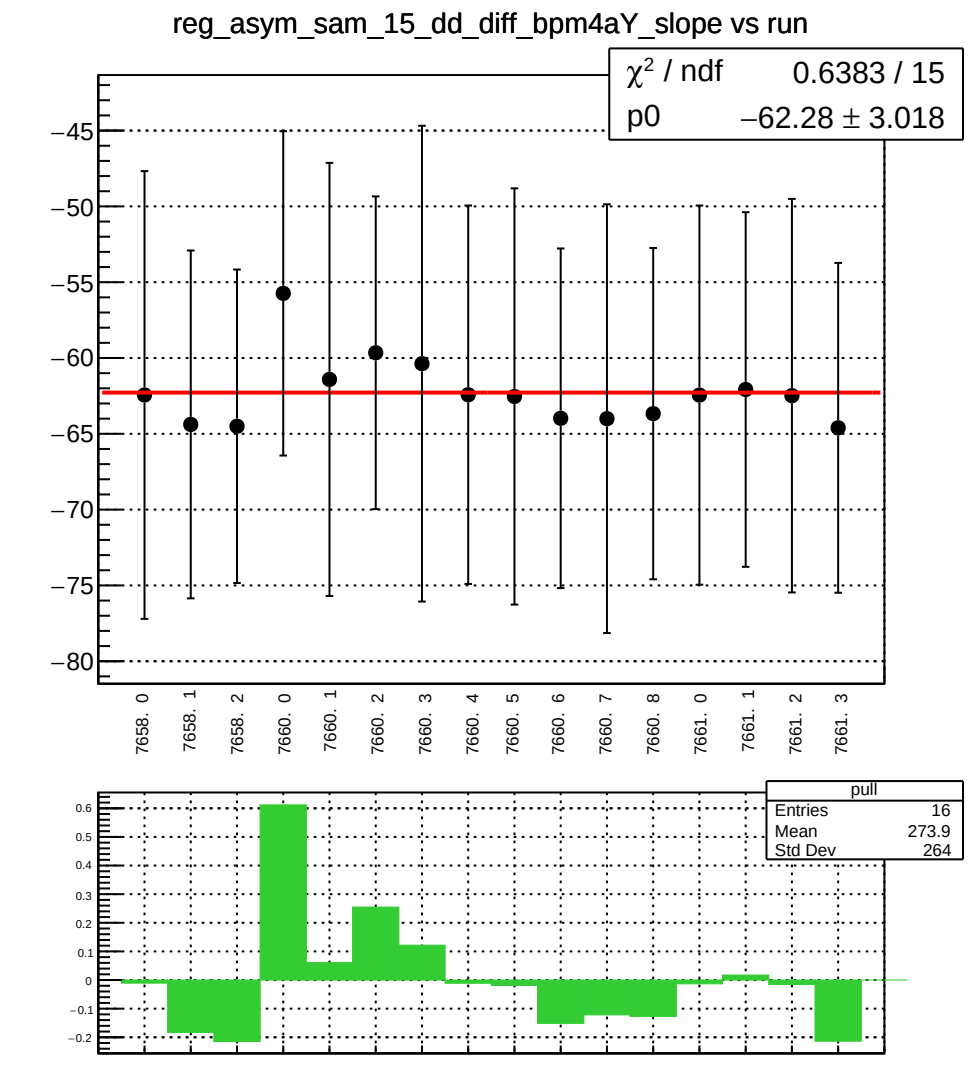

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.025 / 15
p0 43.67 ± 1.82
60
55
50
45
40
35
30
25
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 1906
Std Dev 1894
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 16
Mean −0.0006454
Std Dev 0.6626
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

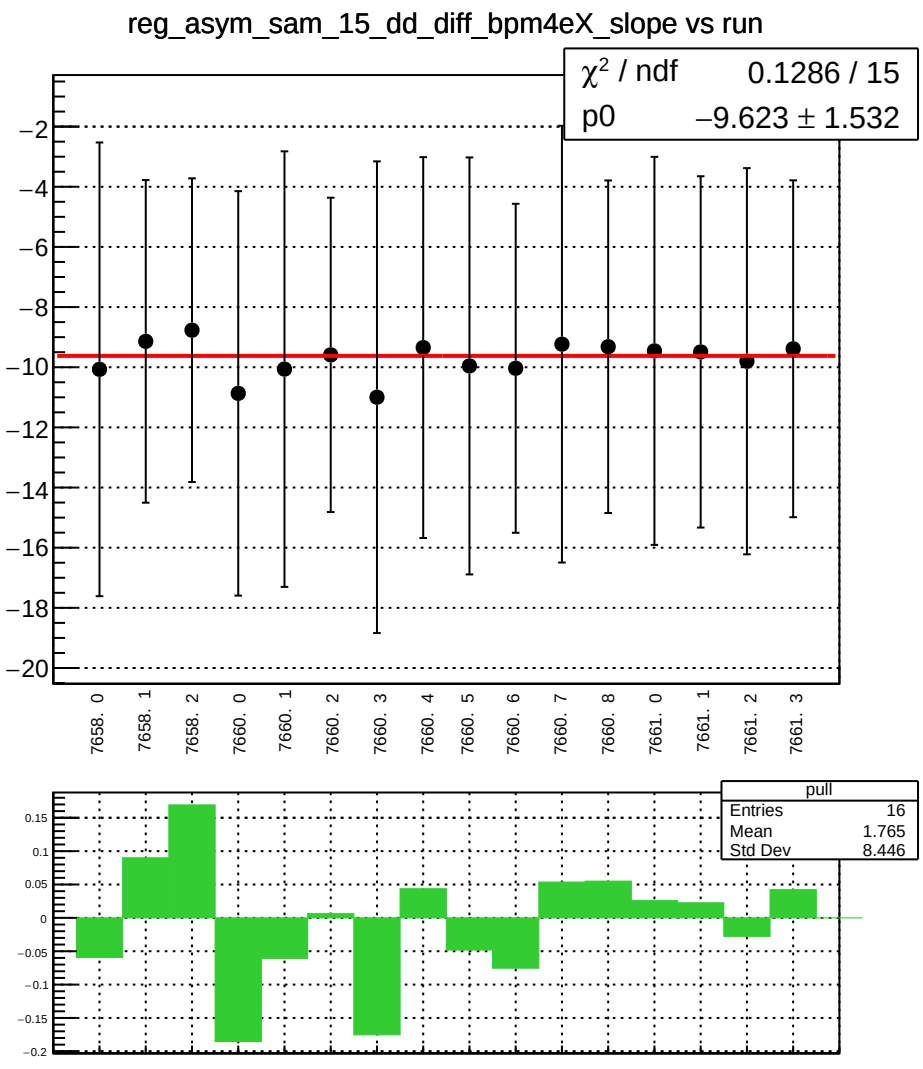

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 0.7253 / 15
p0 0.2691 ± 0.1012
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 0.1289
Std Dev 15.66
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

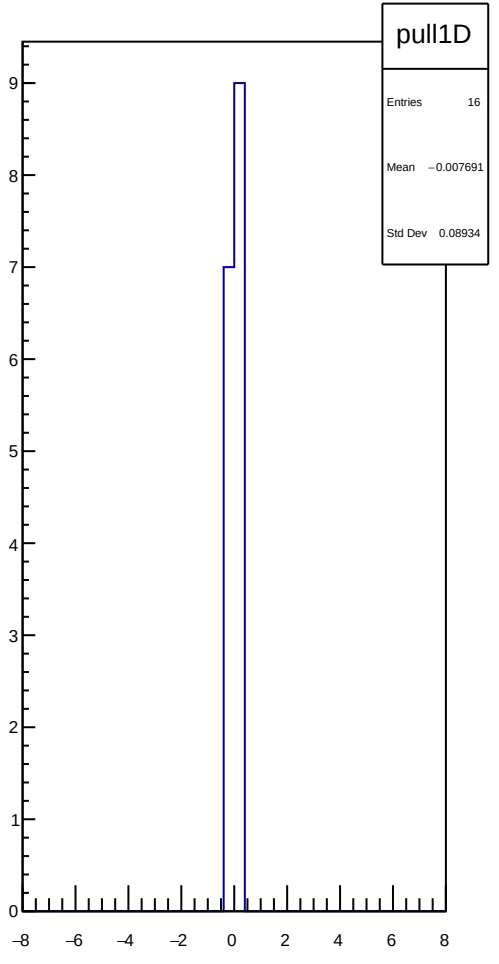

pull1D
Entries 16
Mean −0.007322
Std Dev 0.2128
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

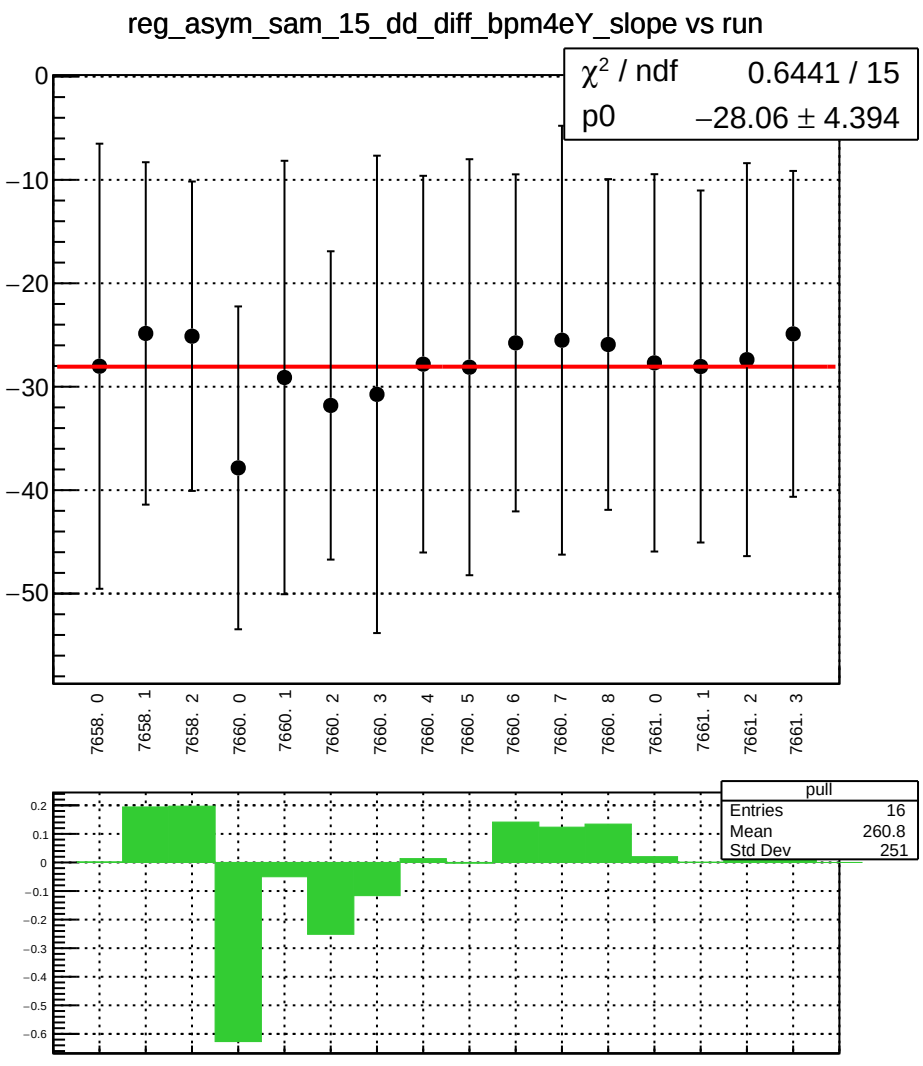

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 0.1424 / 15
p0 −3.238 ± 1.863
10
5
0
−5
−10
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 4.097
Std Dev 6.128
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2

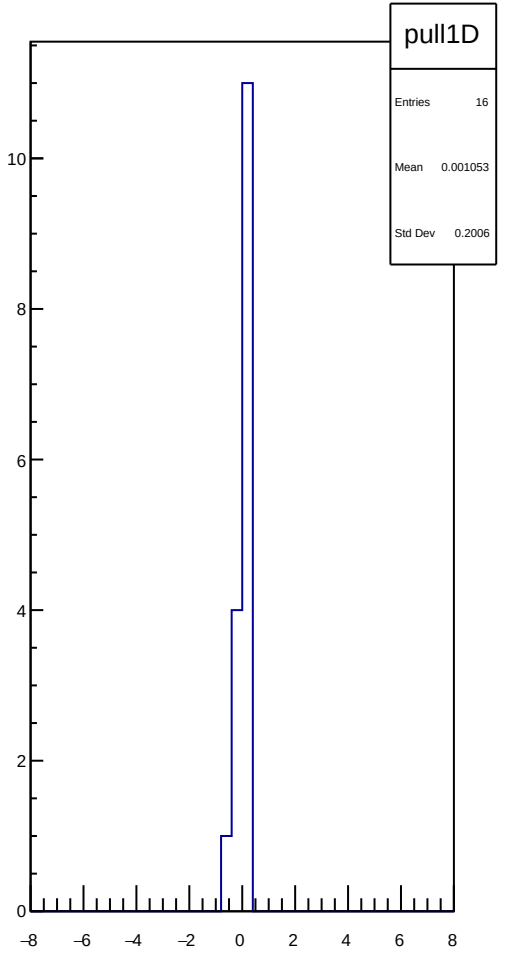

pull1D
Entries 16
Mean 0.008597
Std Dev 0.09395
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

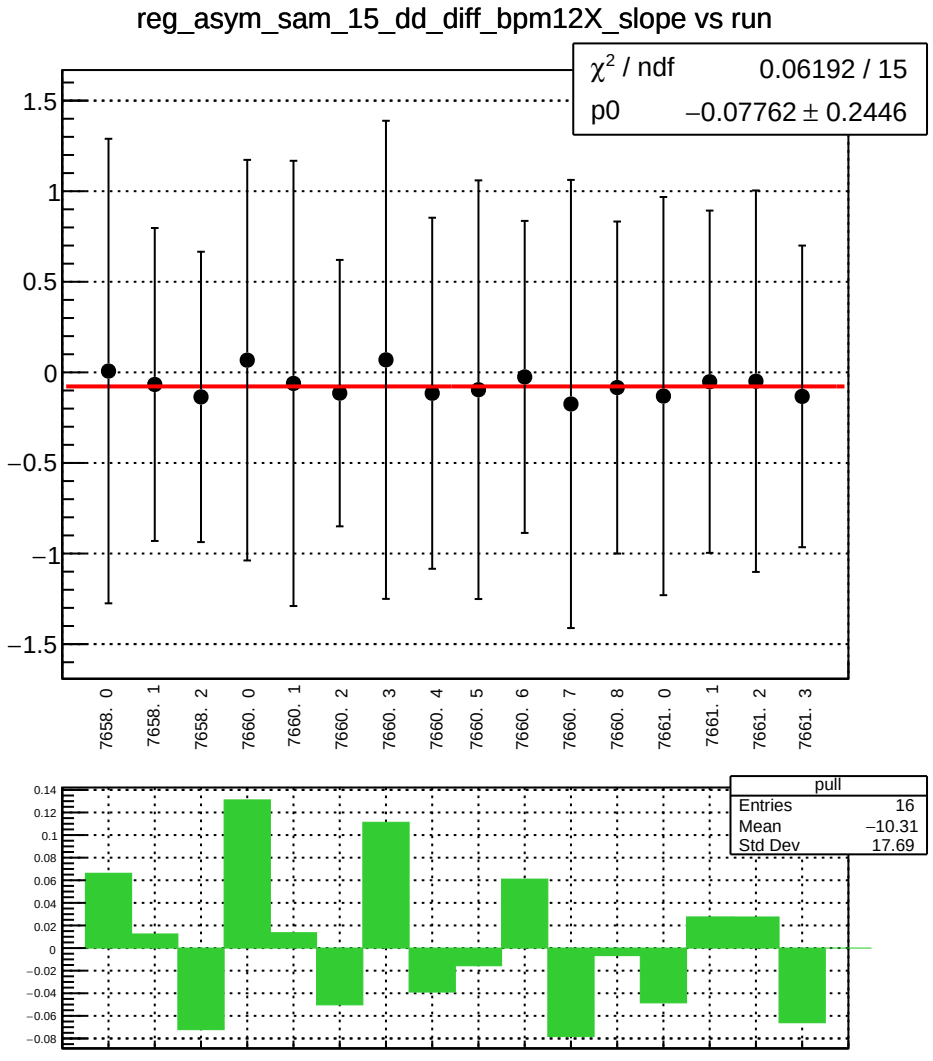

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.6383 / 15
p0 −62.28 ± 3.018
−45
−50
−55
−60
−65
−70
−75
−80
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 273.9
Std Dev 264
0.6
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 16
Mean −0.0009355
Std Dev 0.1997
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

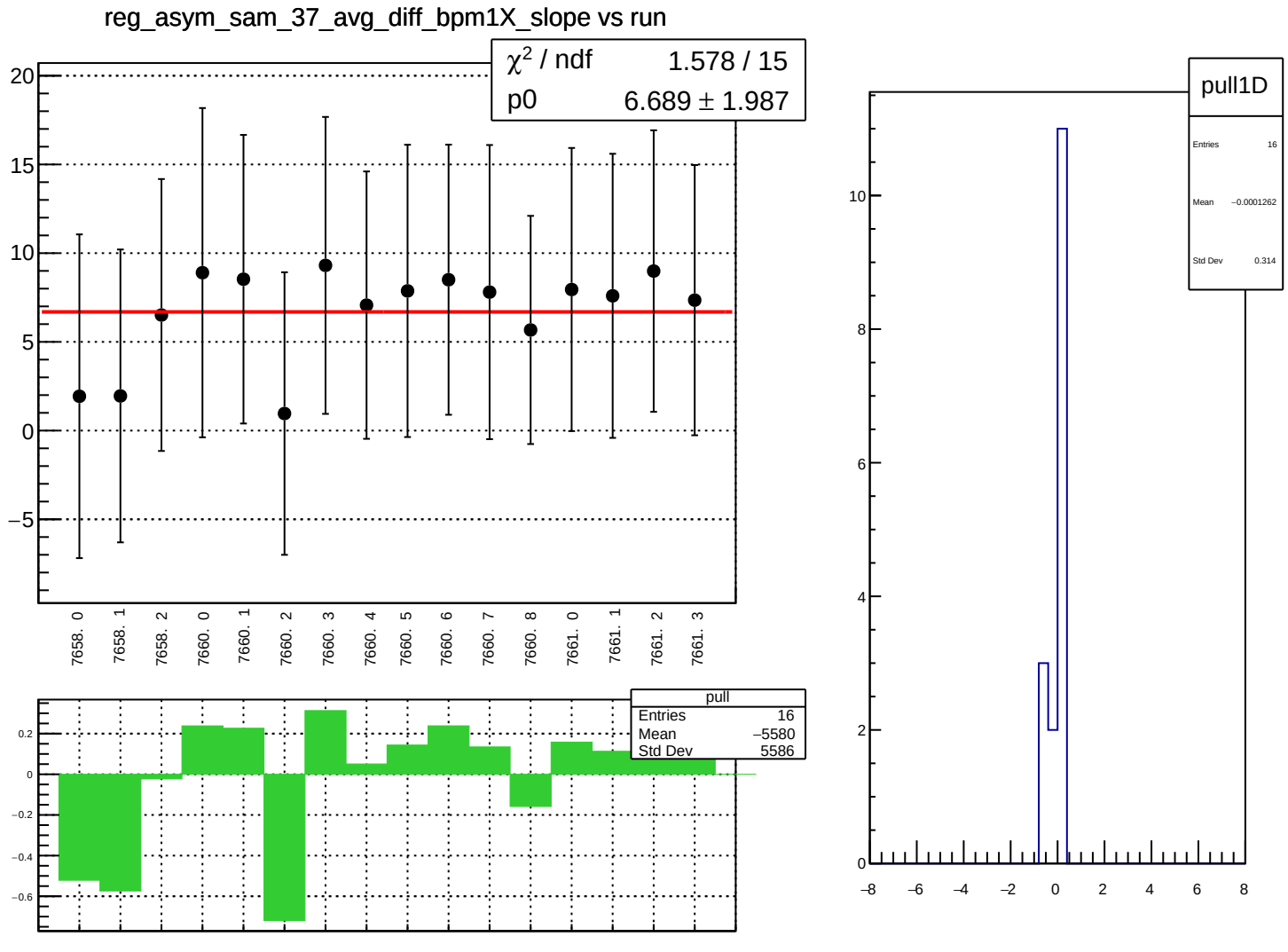

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.1286 / 15
p0 −9.623 ± 1.532
−2
−4
−6
−8
−10
−12
−14
−16
−18
−20
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 1.765
Std Dev 8.446
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2

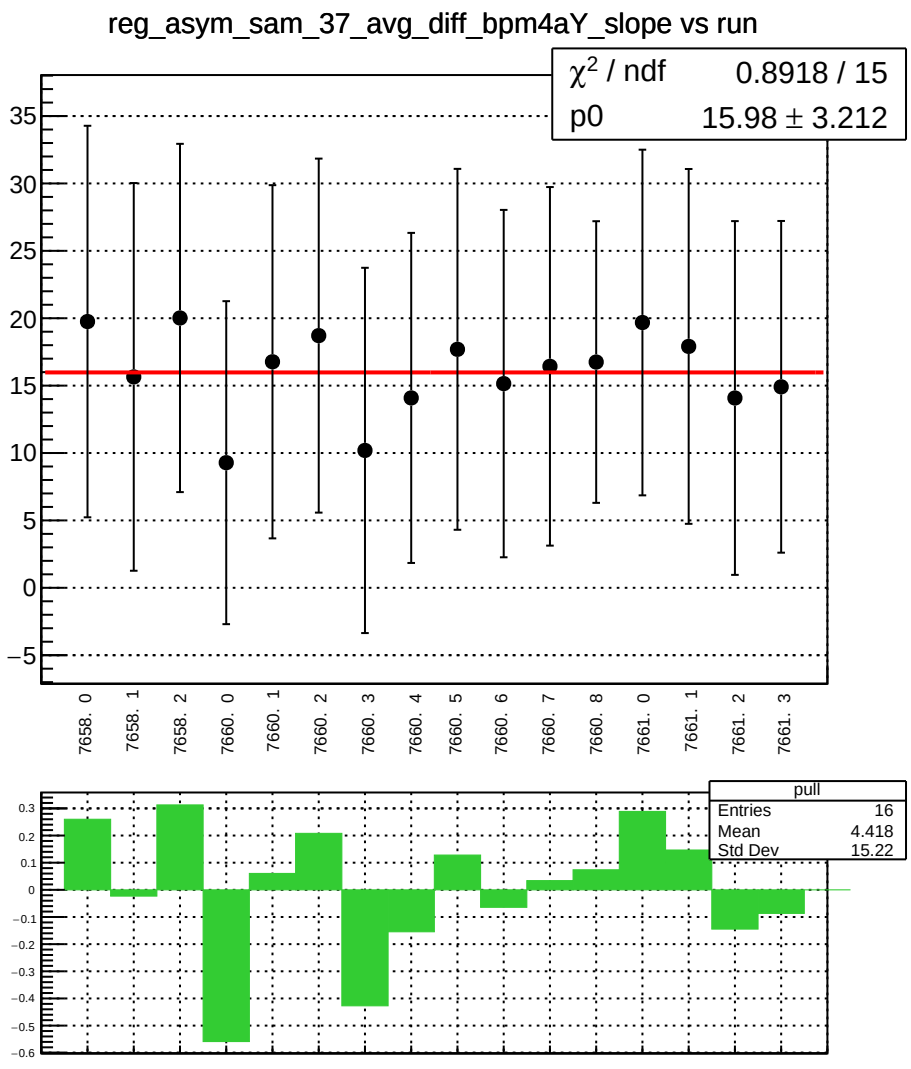

pull1D
Entries 16
Mean −0.007691
Std Dev 0.08934
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

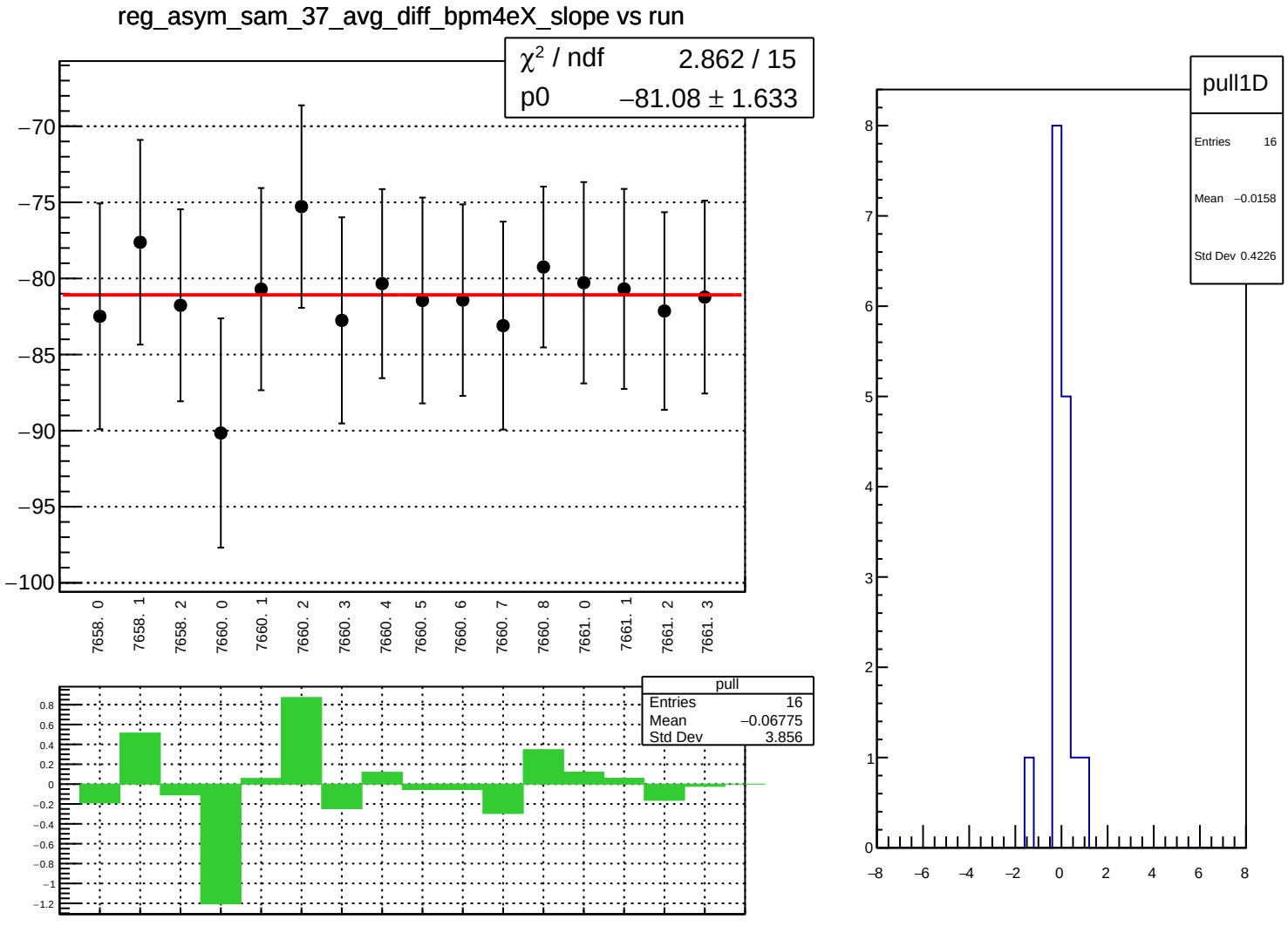

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.6441 / 15
p0 −28.06 ± 4.394
0
−10
−20
−30
−40
−50
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 260.8
Std Dev 251
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6

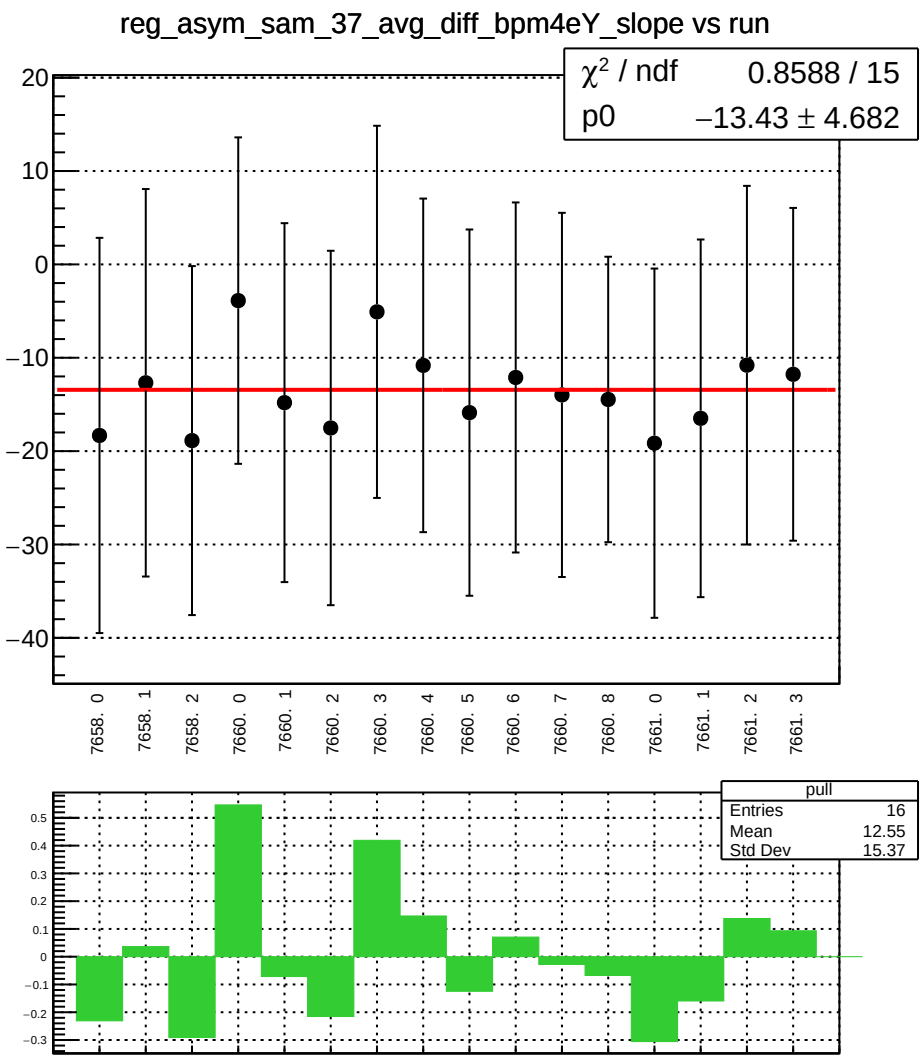

pull1D
Entries 16
Mean 0.001053
Std Dev 0.2006
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

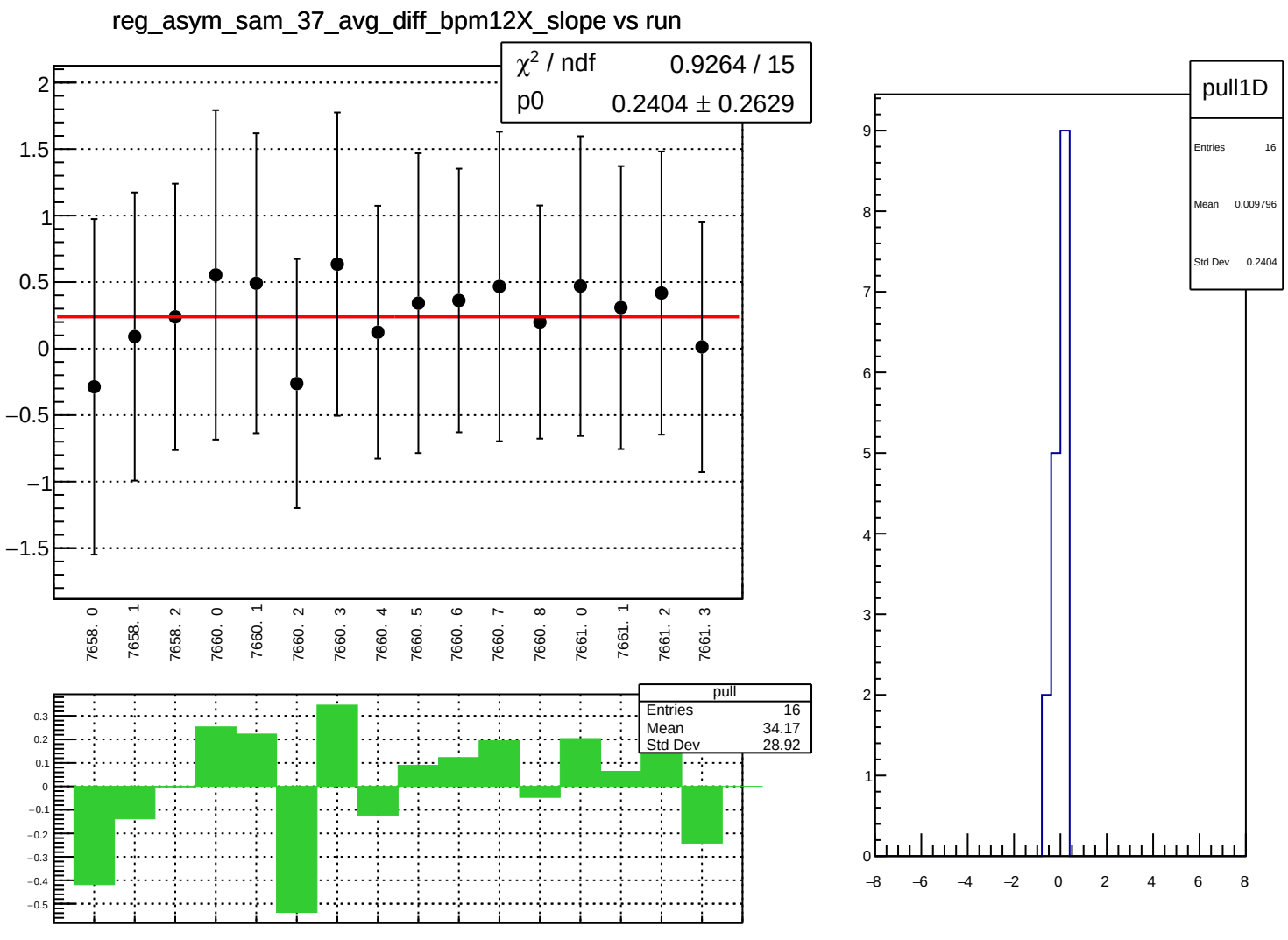

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 0.06192 / 15
p0 −0.07762 ± 0.2446
1.5
1
0.5
0
−0.5
−1
−1.5
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −10.31
Std Dev 17.69
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull1D
Entries 16
Mean 0.004637
Std Dev 0.06204
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

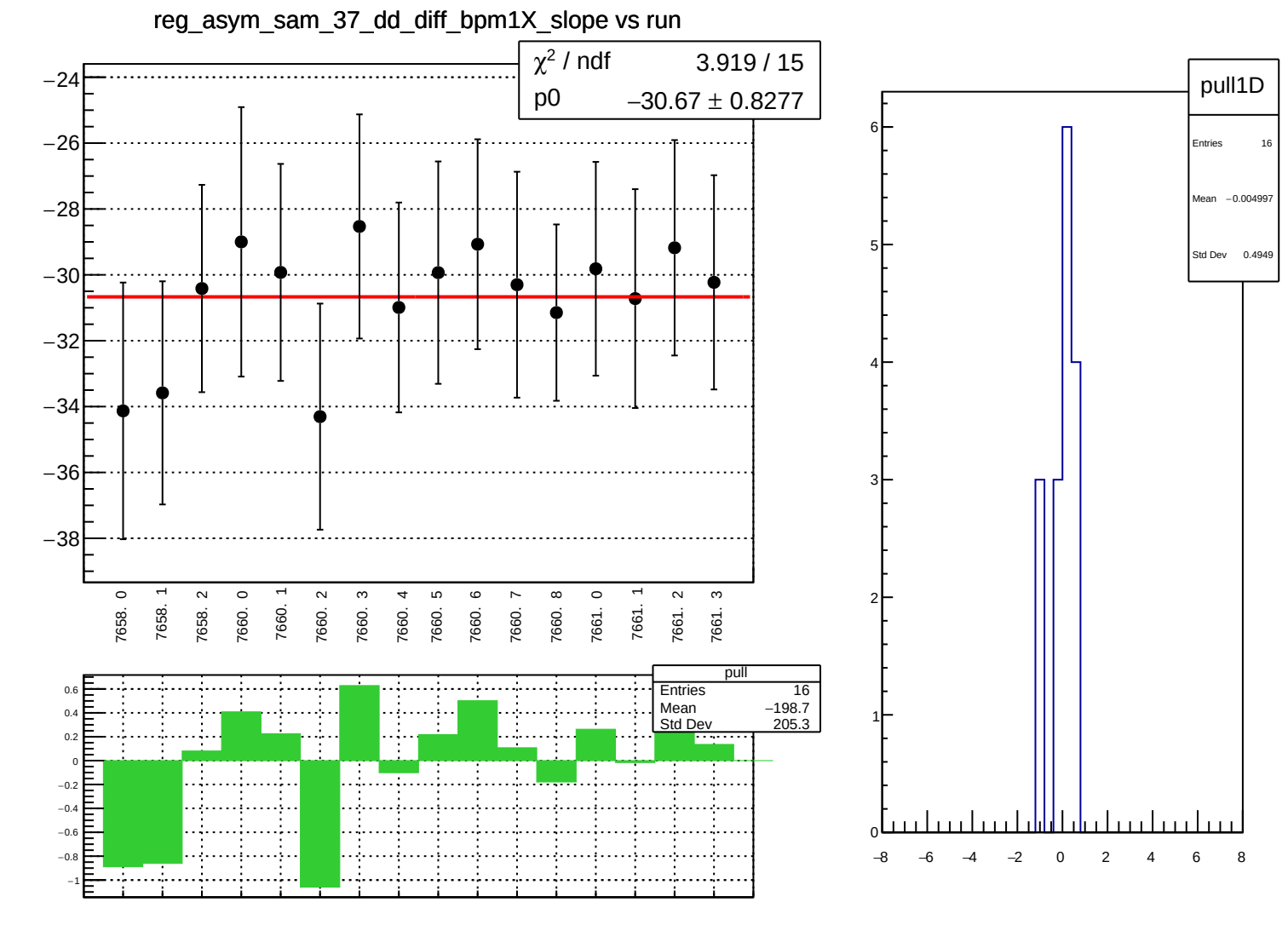

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 1.578 / 15
p0 6.689 ± 1.987
20
15
10
5
0
−5
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −5580
Std Dev 5586
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 16
Mean −0.0001262
Std Dev 0.314
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

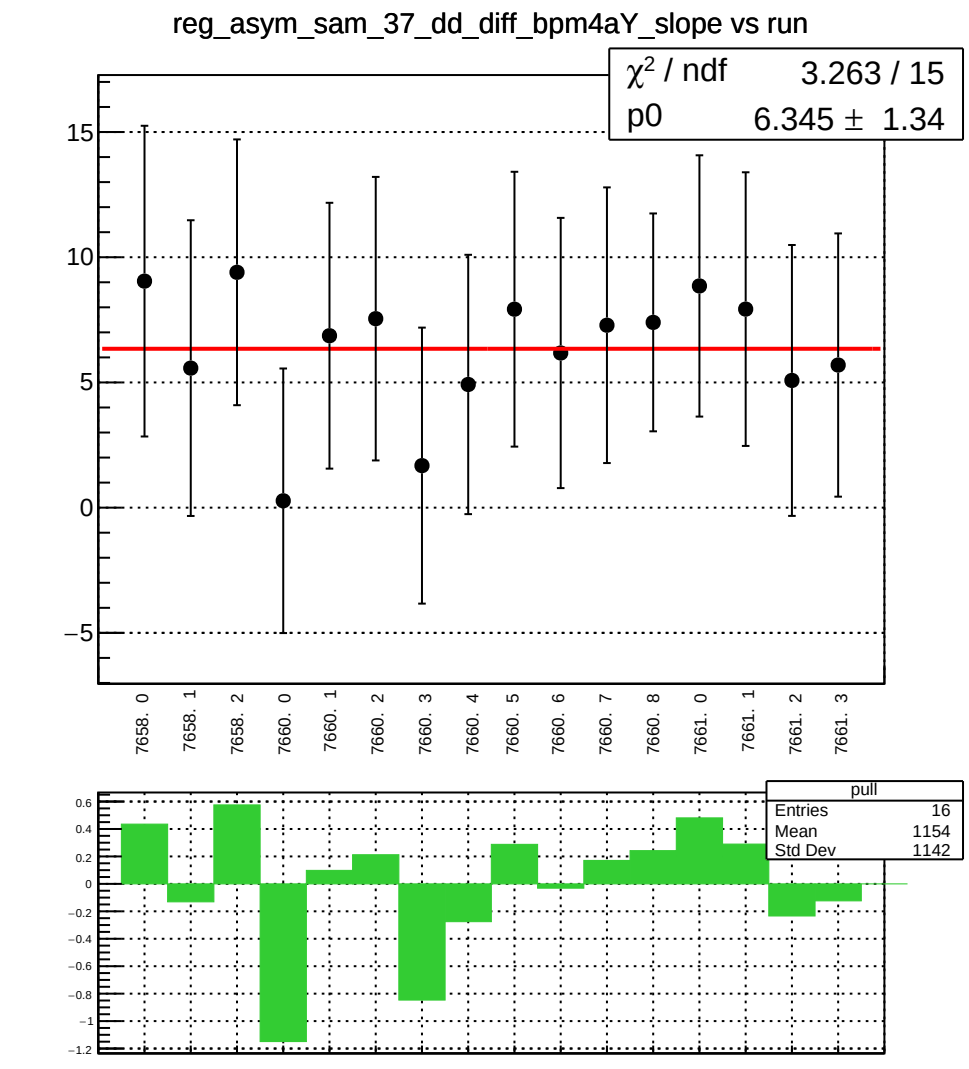

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.8918 / 15
p0 15.98 ± 3.212
35
30
25
20
15
10
5
0
−5
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 4.418
Std Dev 15.22
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
pull1D
Entries 16
Mean 0.003359
Std Dev 0.2361
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

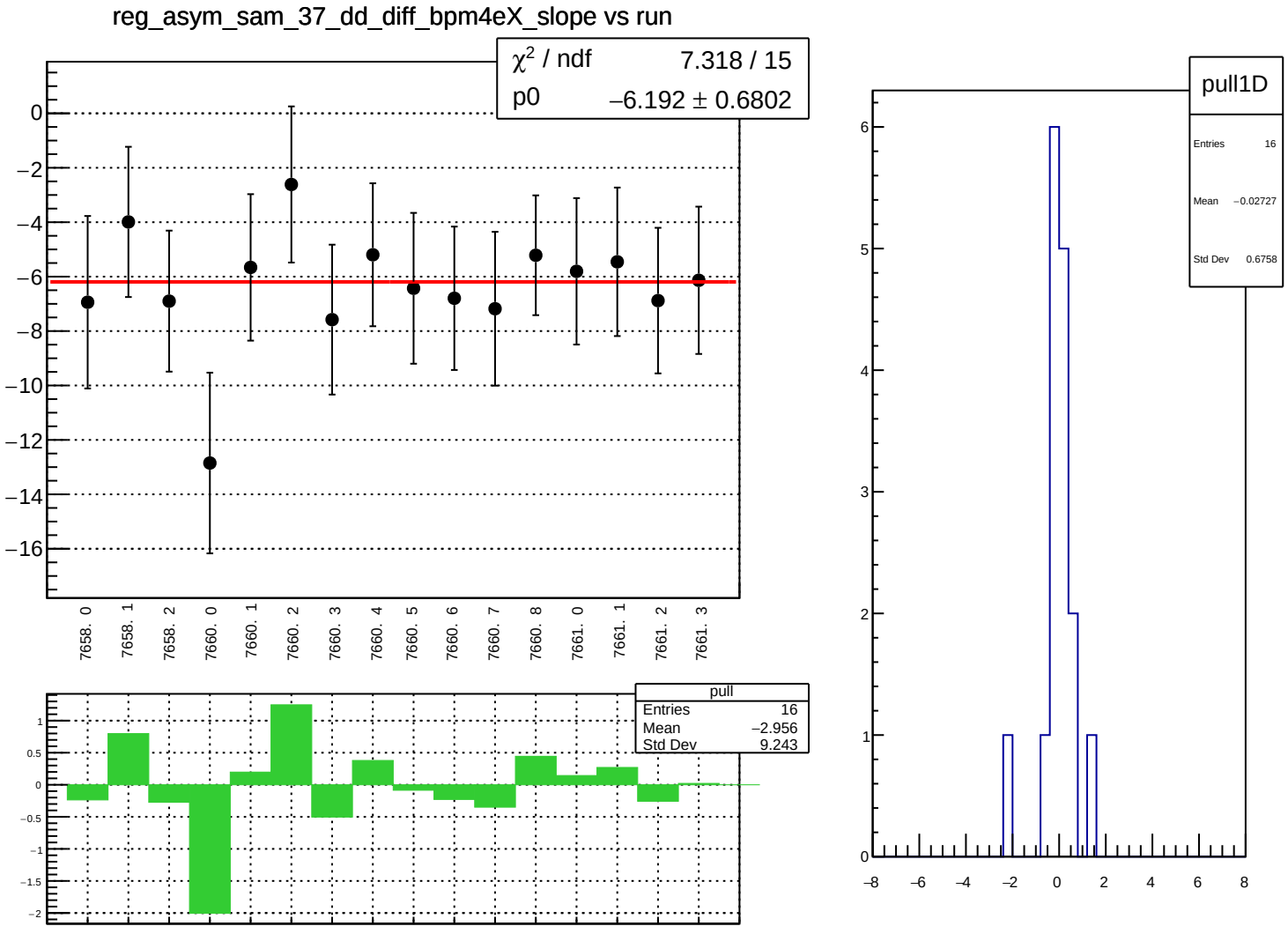

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.862 / 15
p0 −81.08 ± 1.633
−70
−75
−80
−85
−90
−95
−100
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −0.06775
Std Dev 3.856
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 16
Mean −0.0158
Std Dev 0.4226
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

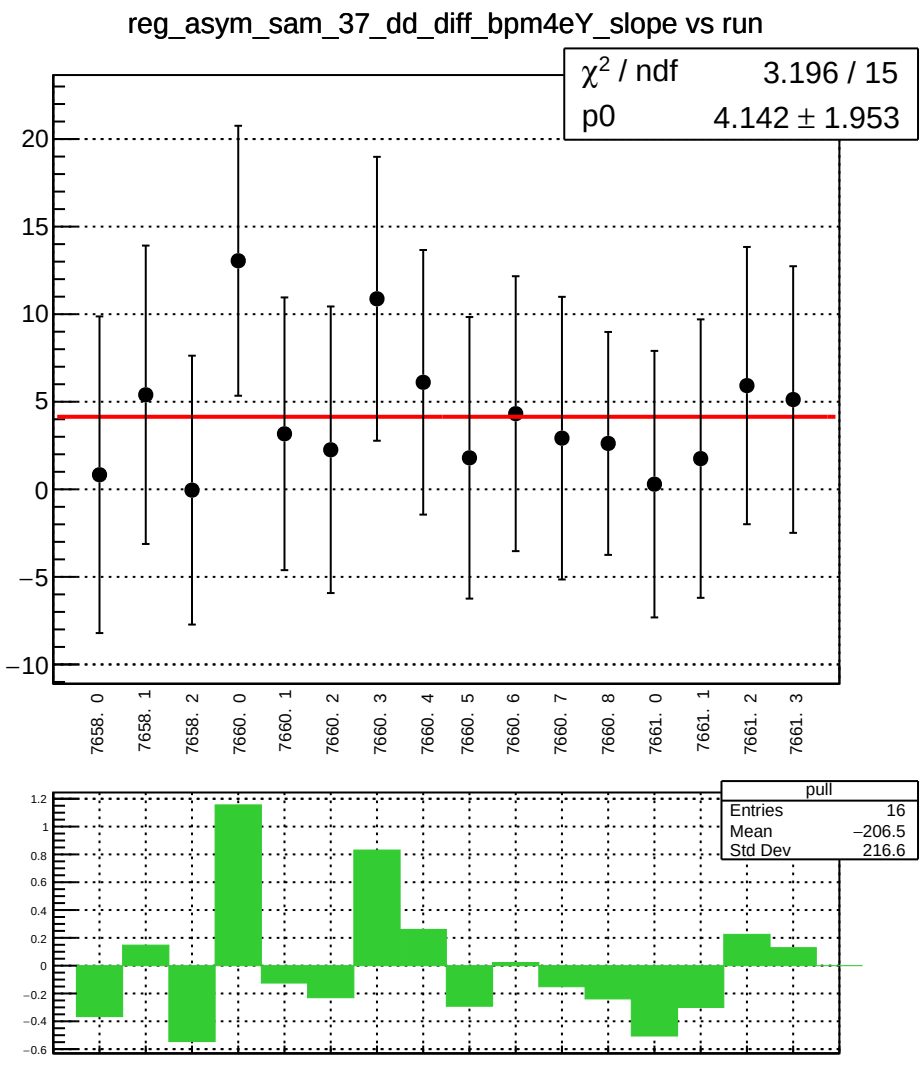

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.8588 / 15
p0 −13.43 ± 4.682
20
10
0
−10
−20
−30
−40
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 12.55
Std Dev 15.37
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 16
Mean −0.002739
Std Dev 0.2317
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

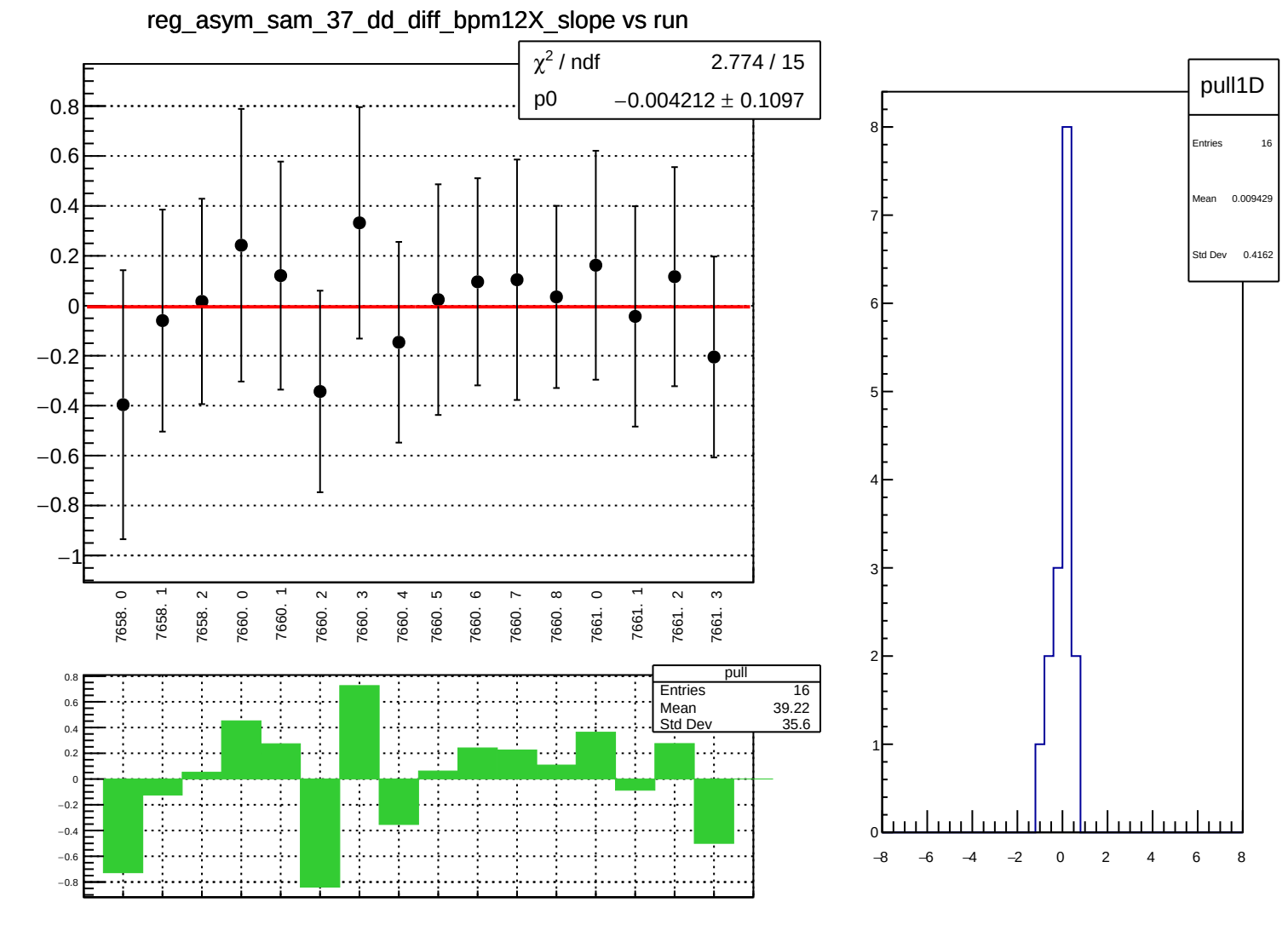

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 0.9264 / 15
p0 0.2404 ± 0.2629
2
1.5
1
0.5
0
−0.5
−1
−1.5
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 34.17
Std Dev 28.92
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
pull1D
Entries 16
Mean 0.009796
Std Dev 0.2404
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

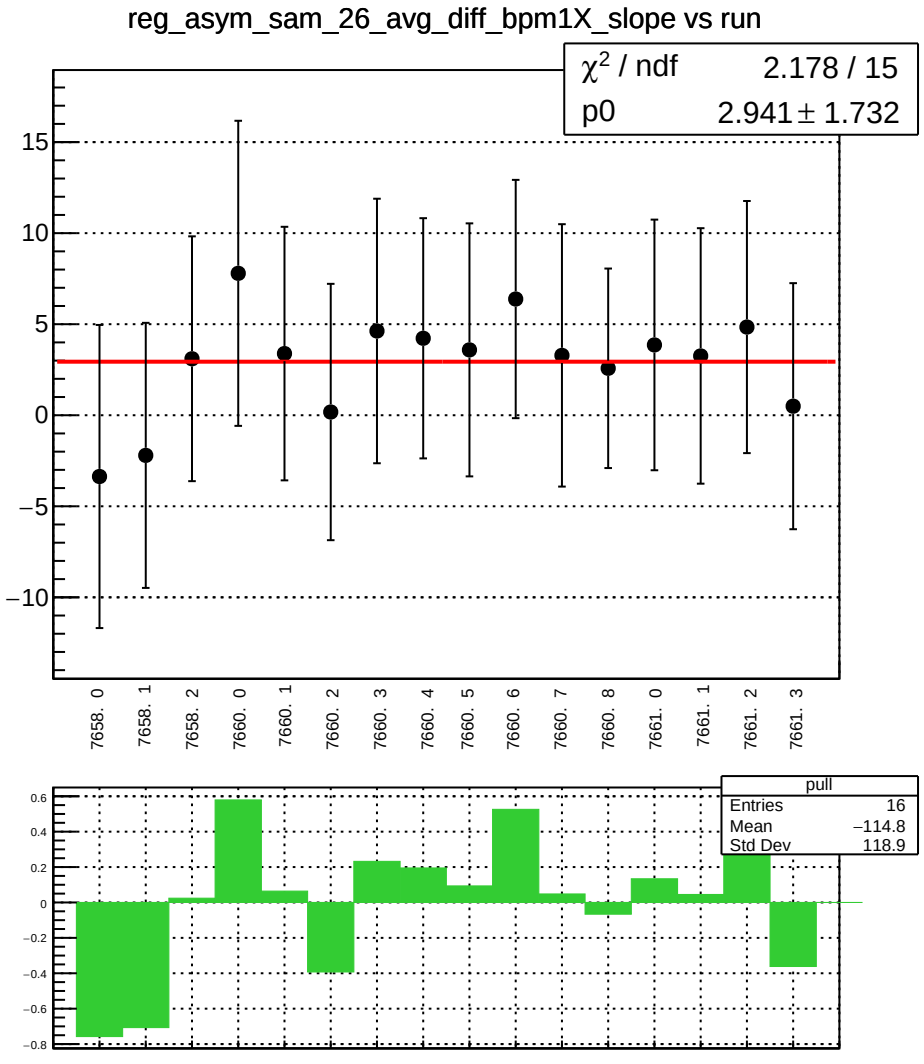

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 3.919 / 15
p0 −30.67 ± 0.8277
−24
−26
−28
−30
−32
−34
−36
−38
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −198.7
Std Dev 205.3
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 16
Mean −0.004997
Std Dev 0.4949
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

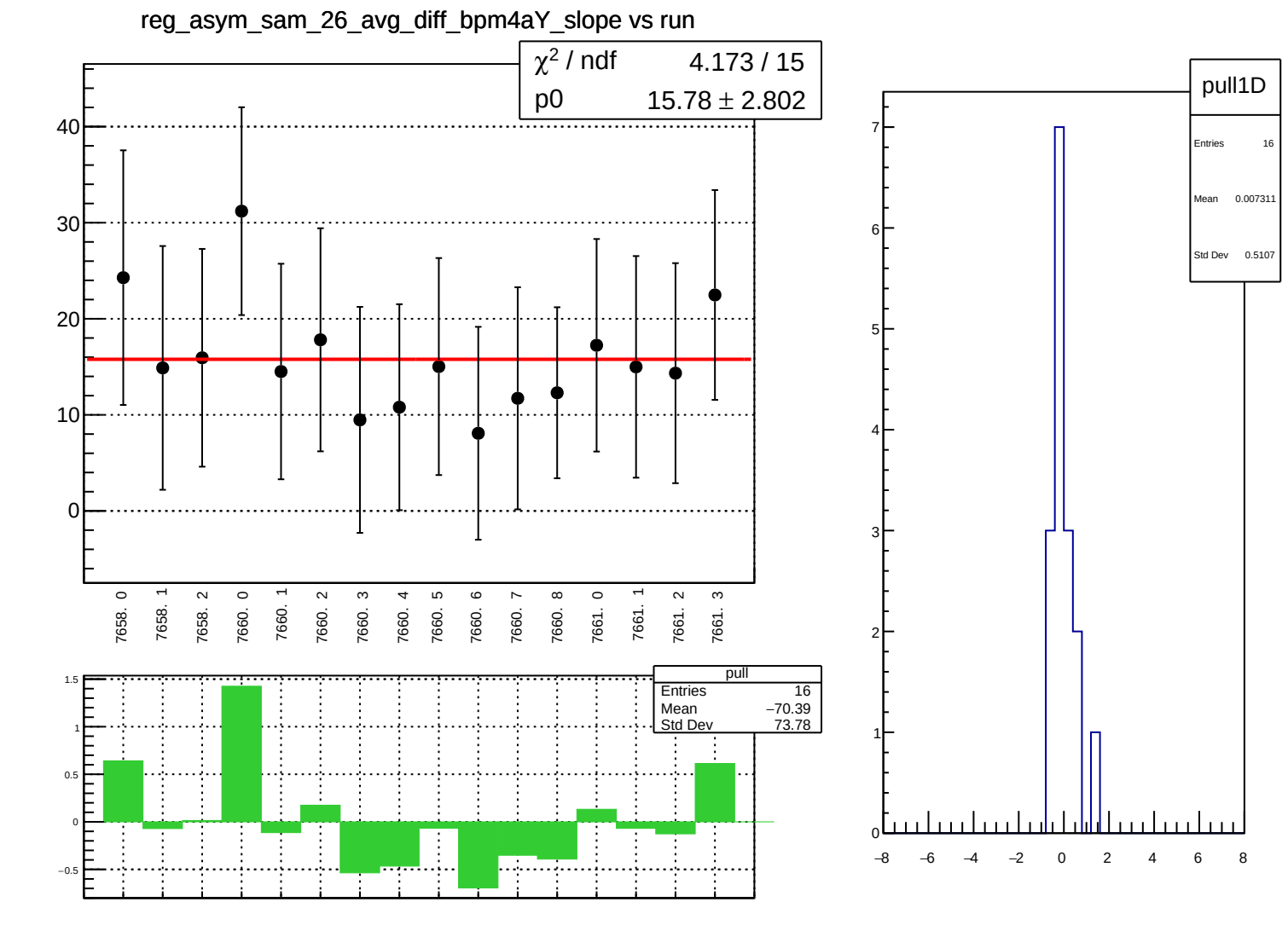

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.263 / 15
p0 6.345 ± 1.34
15
10
5
0
−5
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 1154
Std Dev 1142
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 16
Mean 0.0001532
Std Dev 0.4516
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

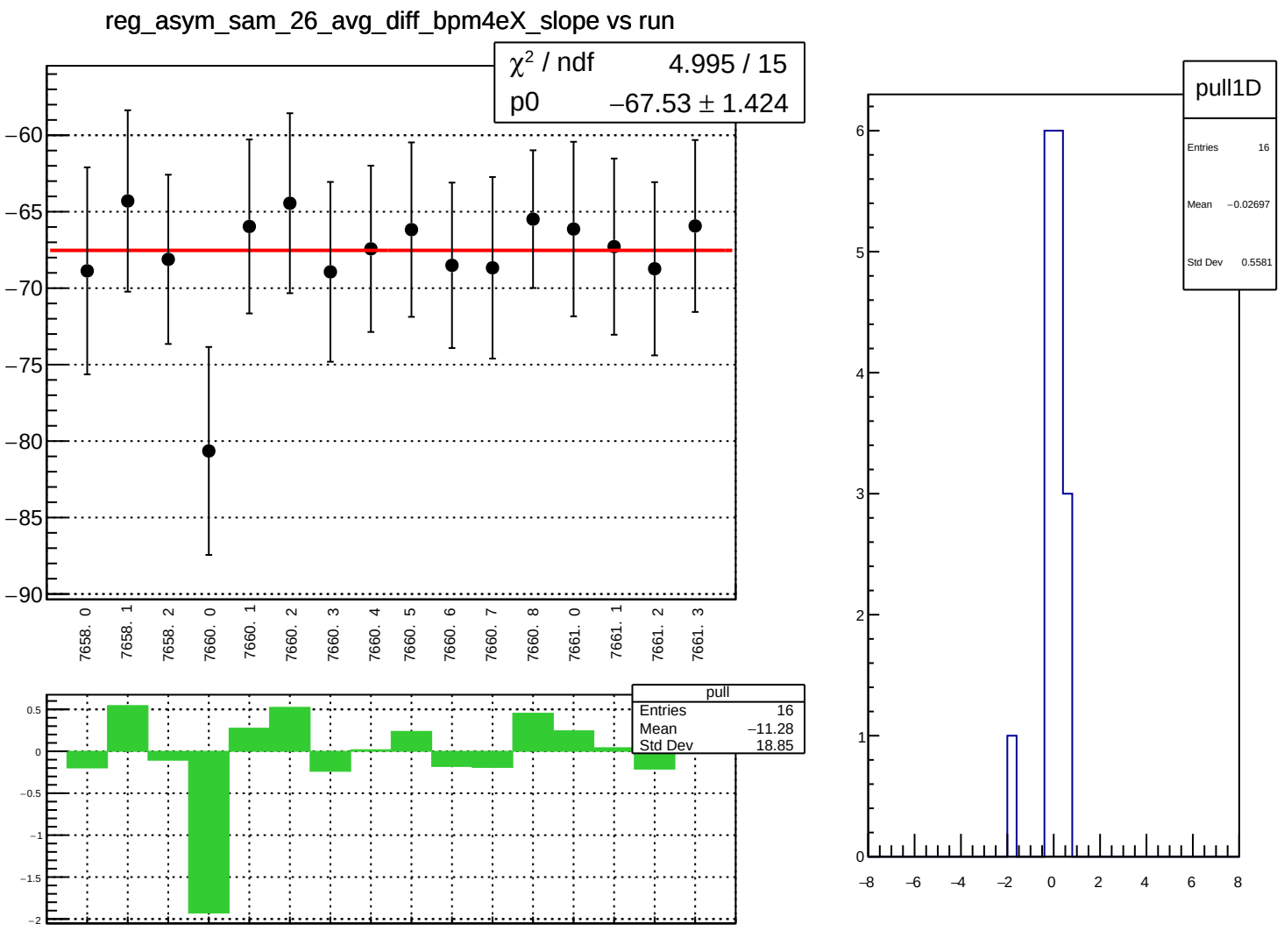

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.318 / 15
p0 −6.192 ± 0.6802
0
−2
−4
−6
−8
−10
−12
−14
−16
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −2.956
Std Dev 9.243
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 16
Mean −0.02727
Std Dev 0.6758
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

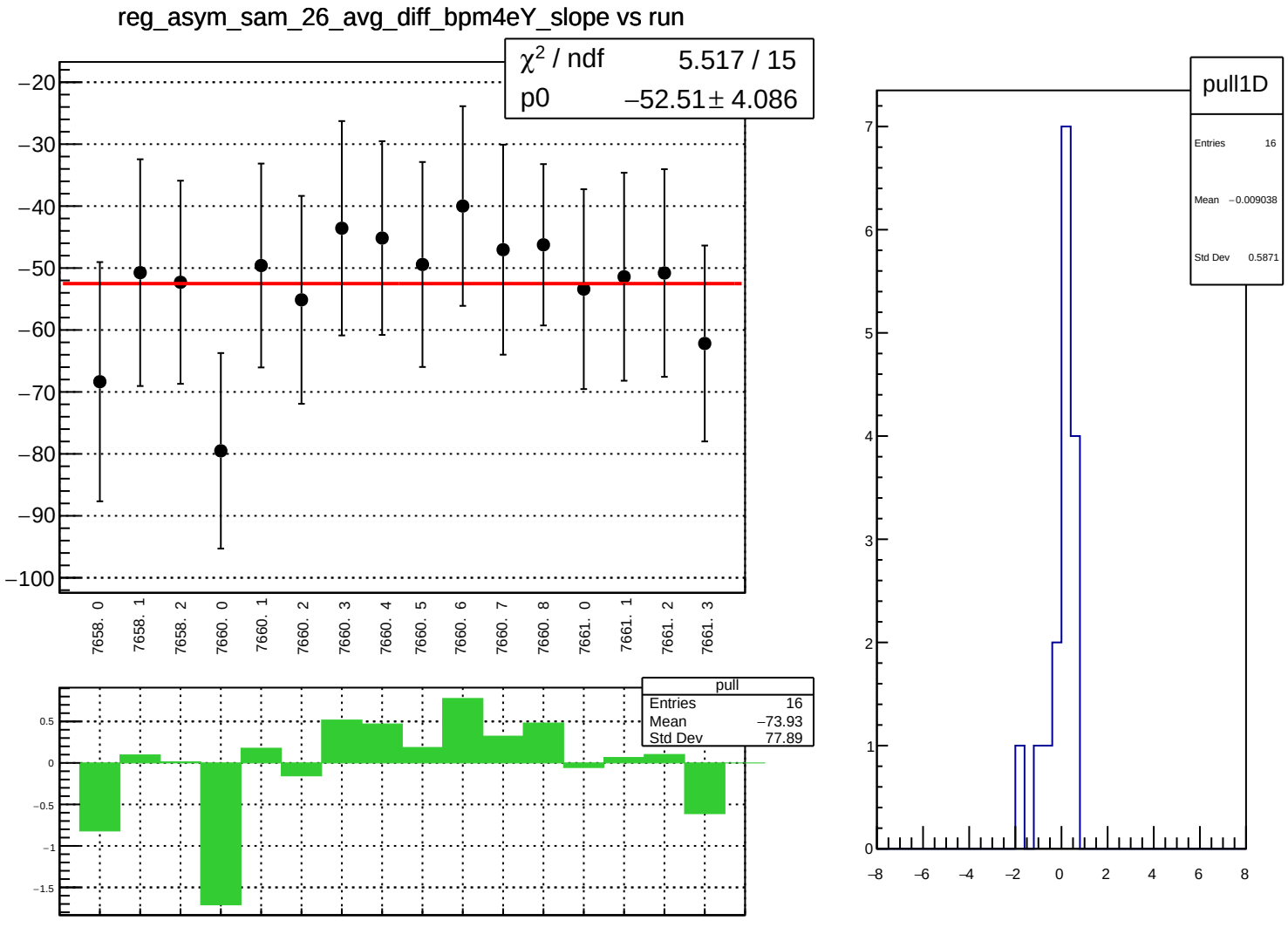

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.196 / 15
p0 4.142 ± 1.953
20
15
10
5
0
−5
−10
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −206.5
Std Dev 216.6
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 16
Mean 0.001049
Std Dev 0.4469
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

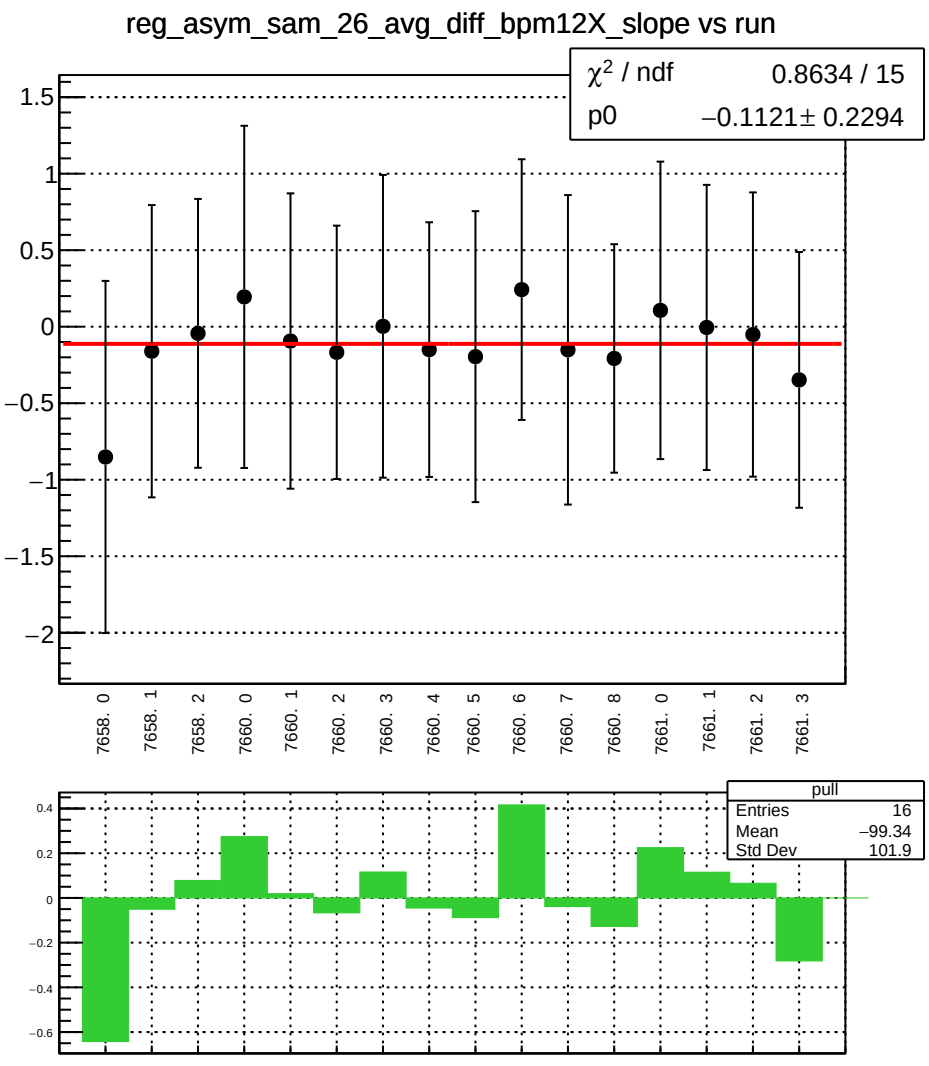

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 2.774 / 15
p0 −0.004212 ± 0.1097
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 39.22
Std Dev 35.6
pull1D
Entries 16
Mean 0.009429
Std Dev 0.4162
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

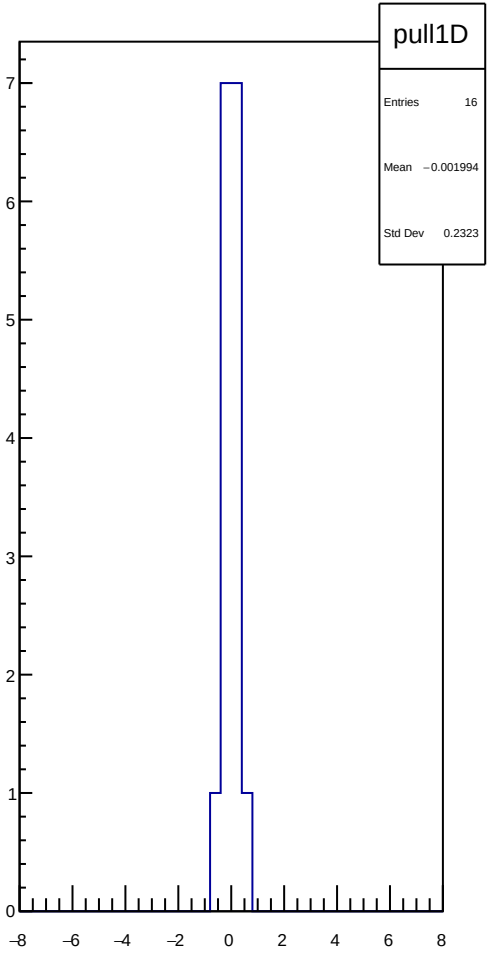

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 2.178 / 15
p0 2.941 ± 1.732
15
10
5
0
−5
−10
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −114.8
Std Dev 118.9
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 16
Mean −0.004324
Std Dev 0.3689
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

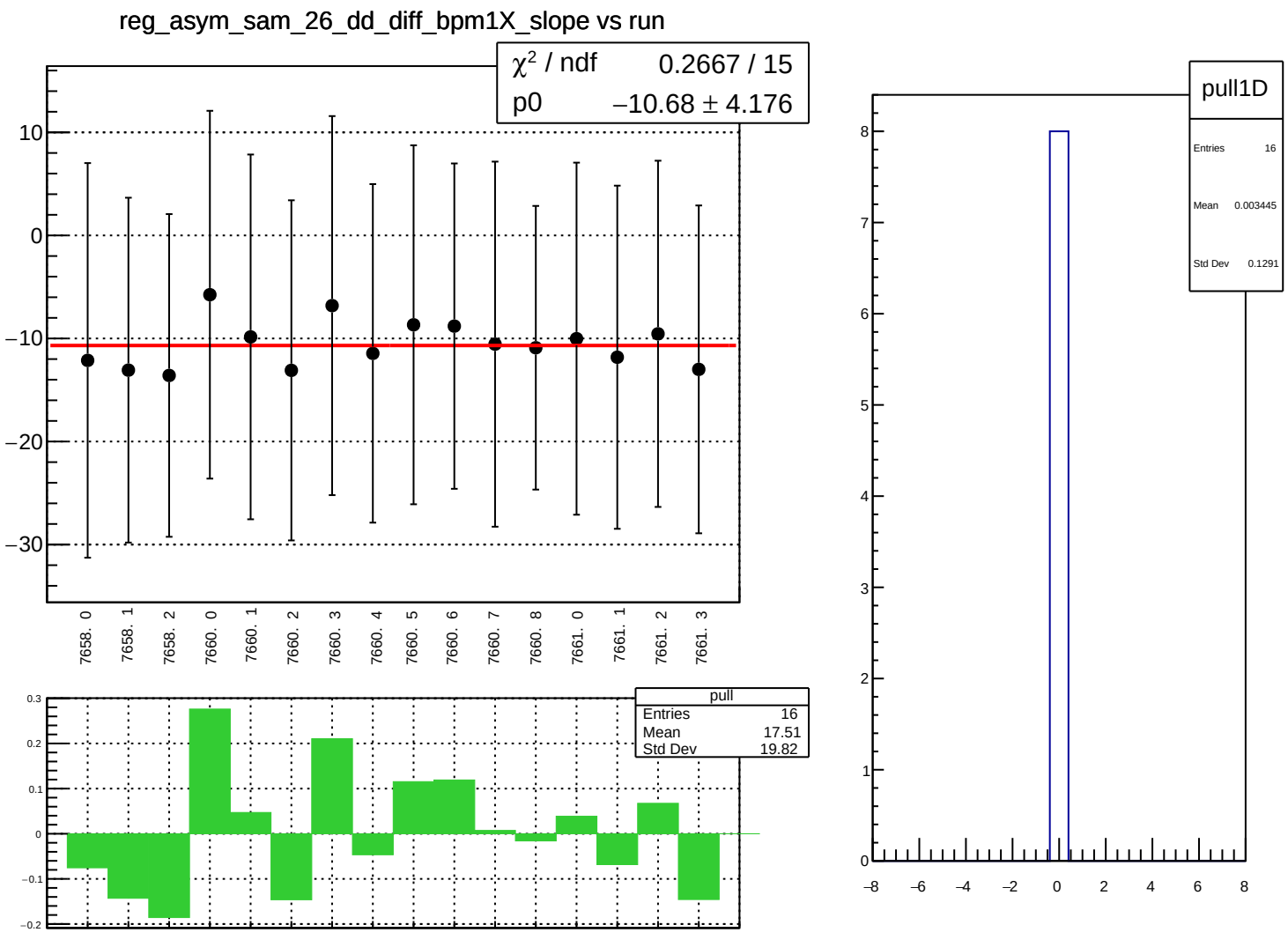

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.173 / 15
p0 15.78 ± 2.802
40
30
20
10
0
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −70.39
Std Dev 73.78
1.5
1
0.5
0
−0.5
pull1D
Entries 16
Mean 0.007311
Std Dev 0.5107
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

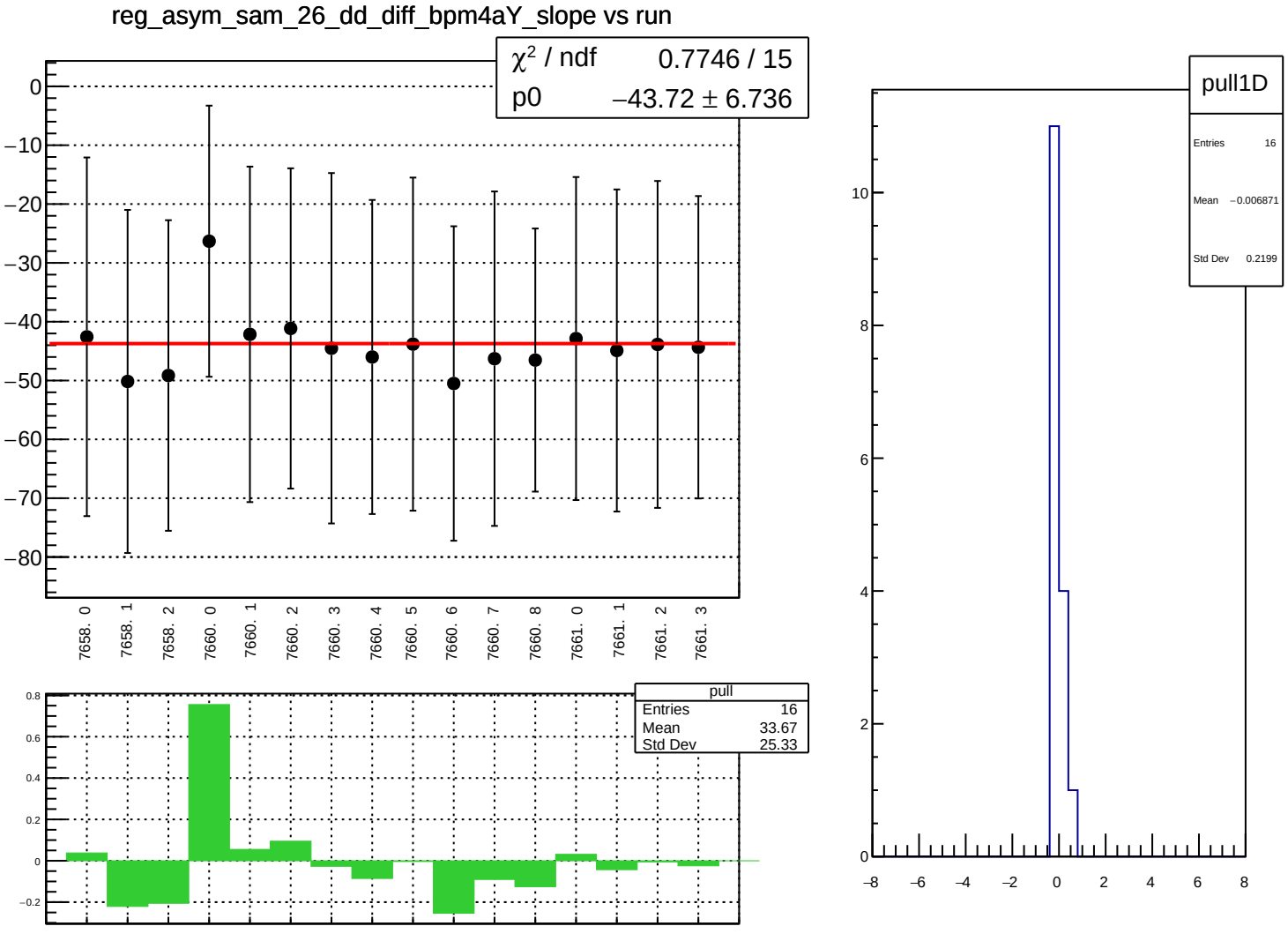

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.995 / 15
p0 −67.53 ± 1.424
−60
−65
−70
−75
−80
−85
−90
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −11.28
Std Dev 18.85
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 16
Mean −0.02697
Std Dev 0.5581
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

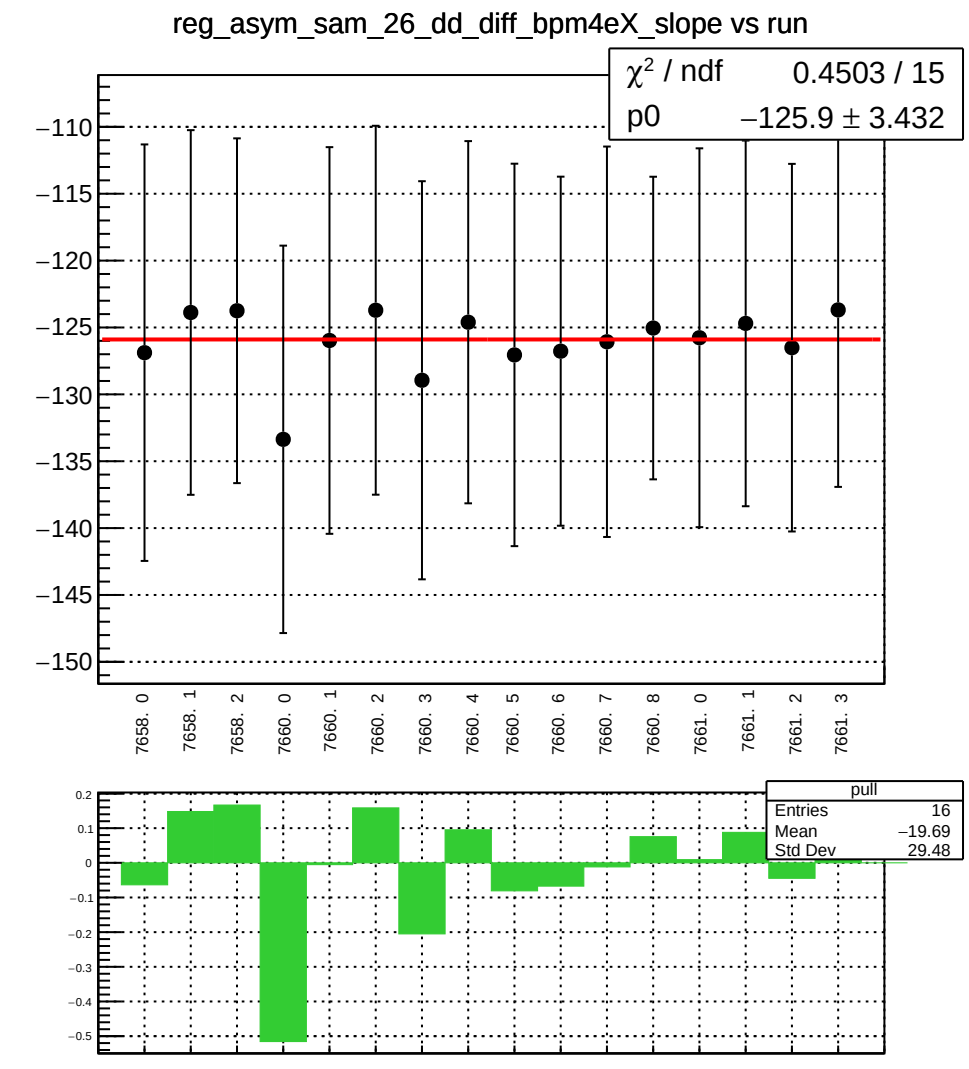

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.517 / 15
p0 −52.51 ± 4.086
−20
−30
−40
−50
−60
−70
−80
−90
−100
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −73.93
Std Dev 77.89
0.5
0
−0.5
−1
−1.5
pull1D
Entries 16
Mean −0.009038
Std Dev 0.5871
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

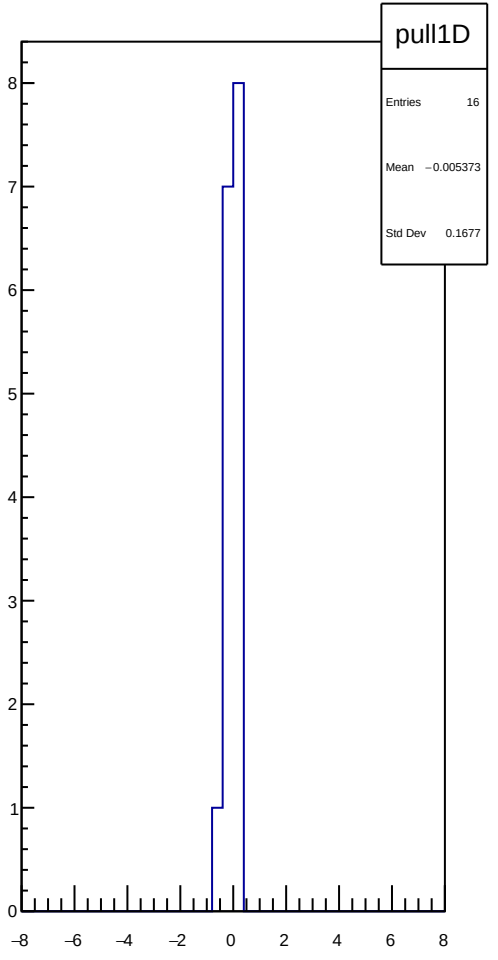

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 0.8634 / 15
p0 −0.1121± 0.2294
1.5
1
0.5
0
−0.5
−1
−1.5
−2
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −99.34
Std Dev 101.9
0.4
0.2
0
−0.2
−0.4
−0.6

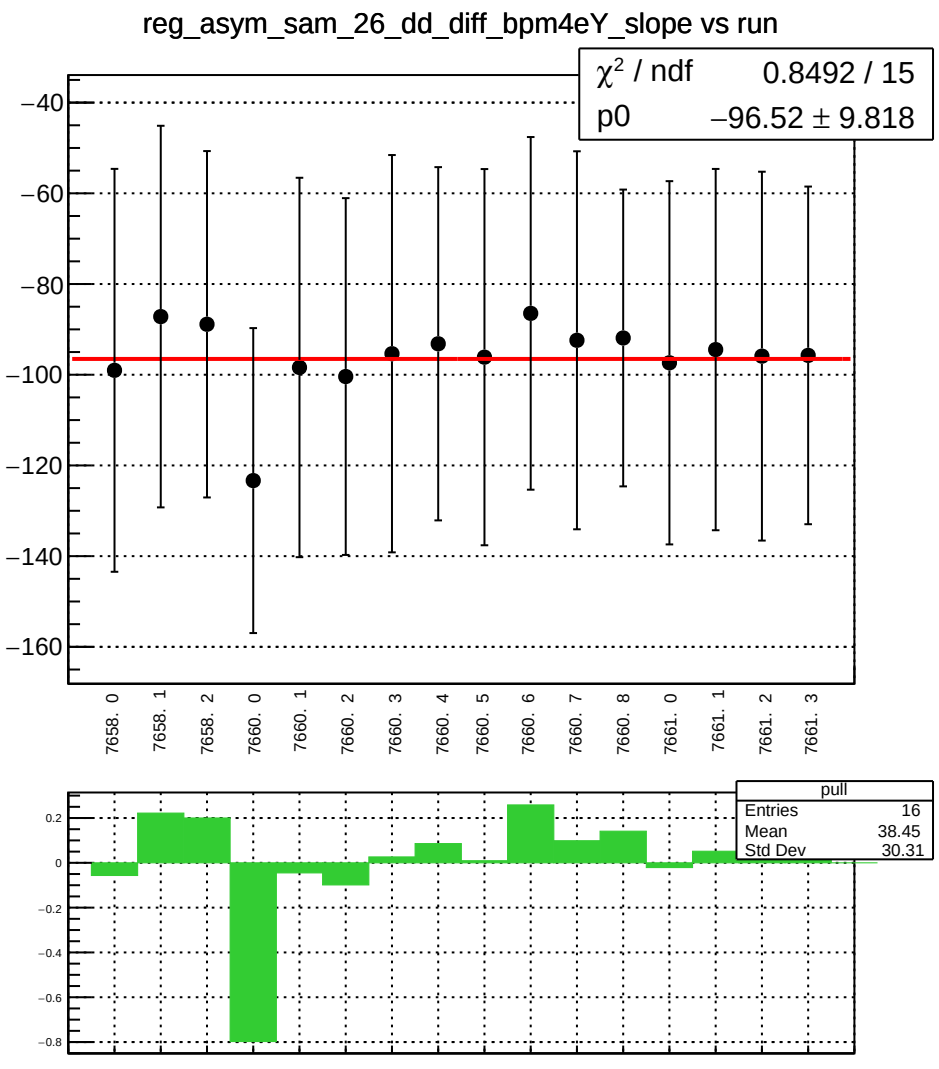

pull1D
Entries 16
Mean −0.001994
Std Dev 0.2323
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

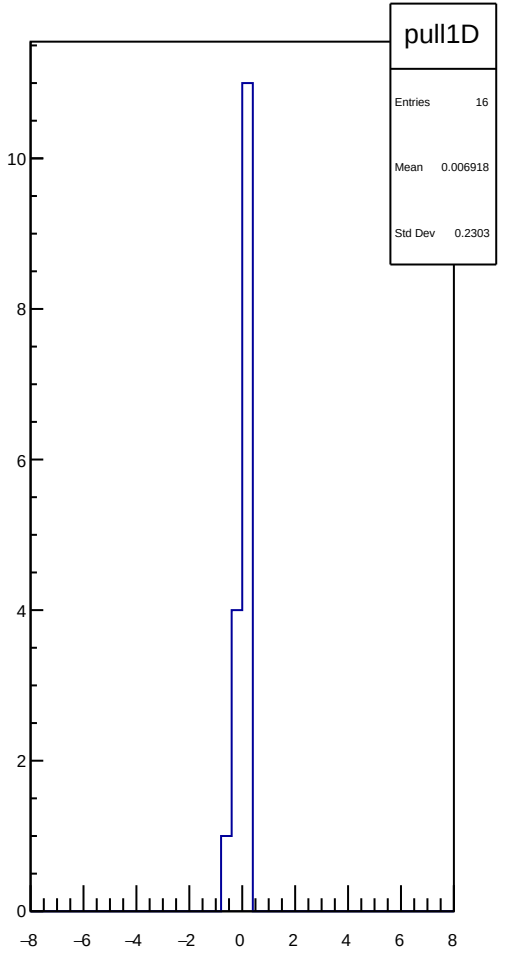

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 0.2667 / 15
p0 −10.68 ± 4.176
10
0
−10
−20
−30
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 17.51
Std Dev 19.82
0.3
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 16
Mean 0.003445
Std Dev 0.1291
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

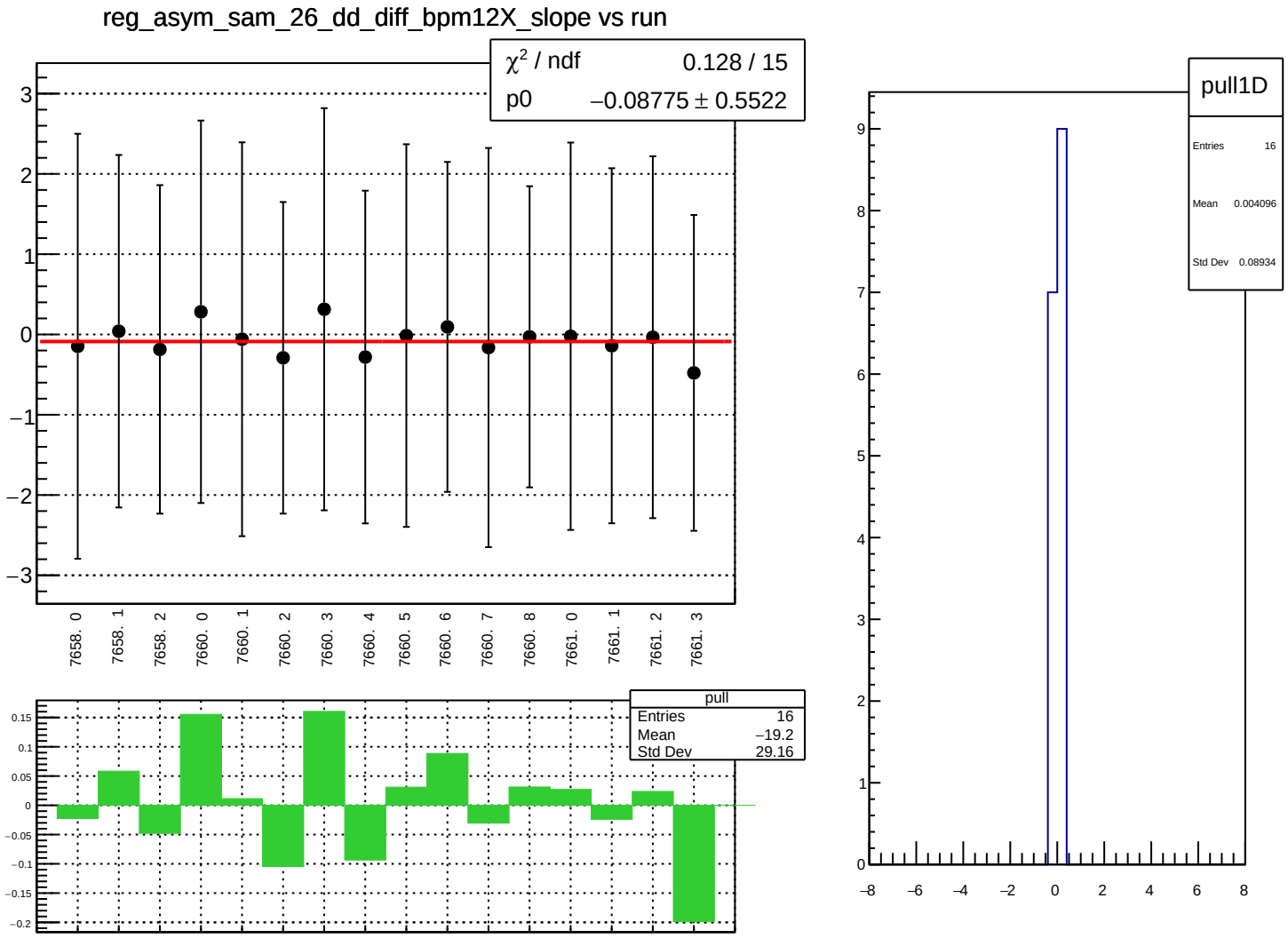

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.7746 / 15
p0 −43.72 ± 6.736
0
−10
−20
−30
−40
−50
−60
−70
−80
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 33.67
Std Dev 25.33
0.8
0.6
0.4
0.2
0
−0.2
pull1D
Entries 16
Mean −0.006871
Std Dev 0.2199
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

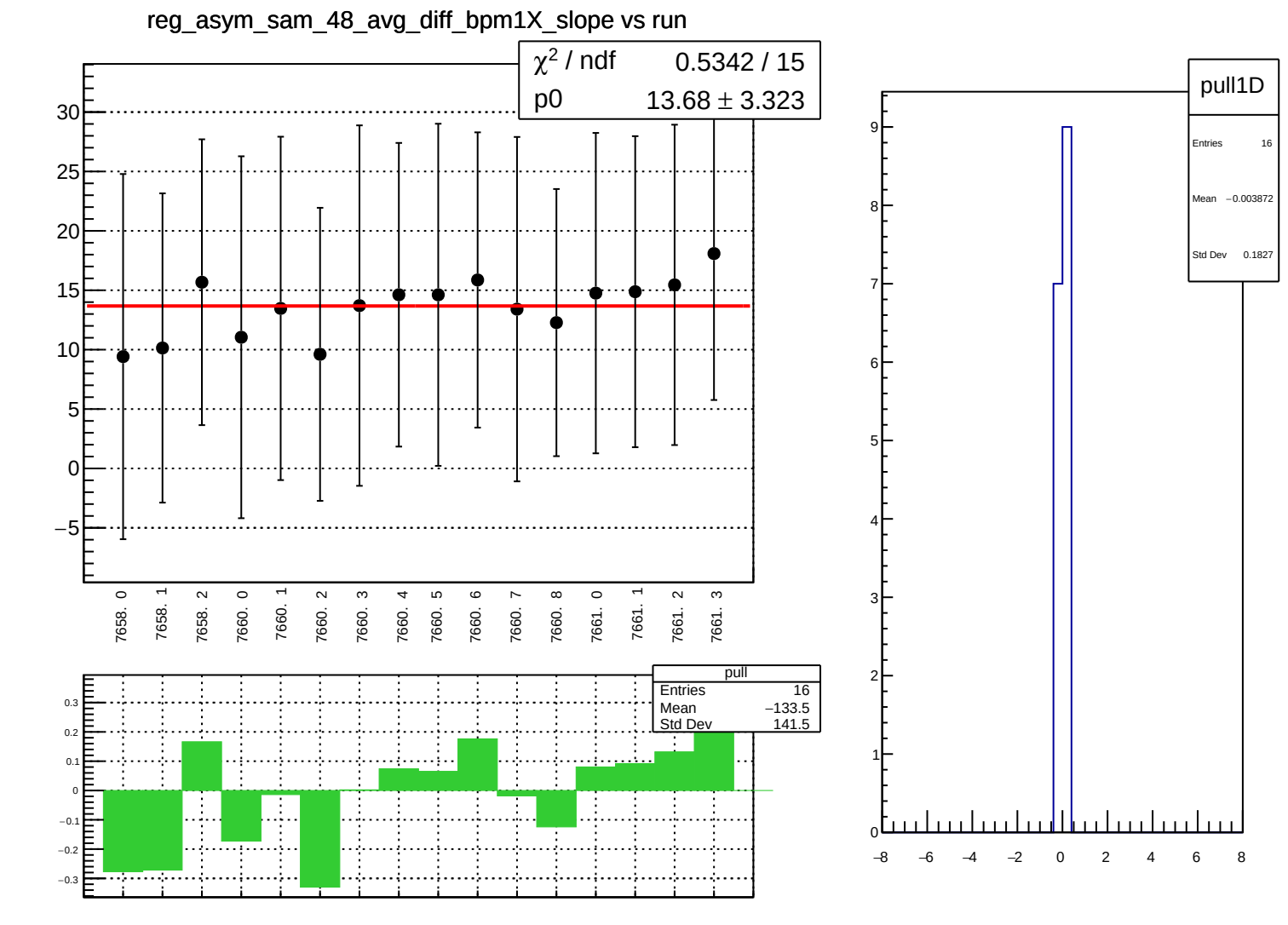

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.4503 / 15
p0 −125.9 ± 3.432
−110
−115
−120
−125
−130
−135
−140
−145
−150
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −19.69
Std Dev 29.48
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5

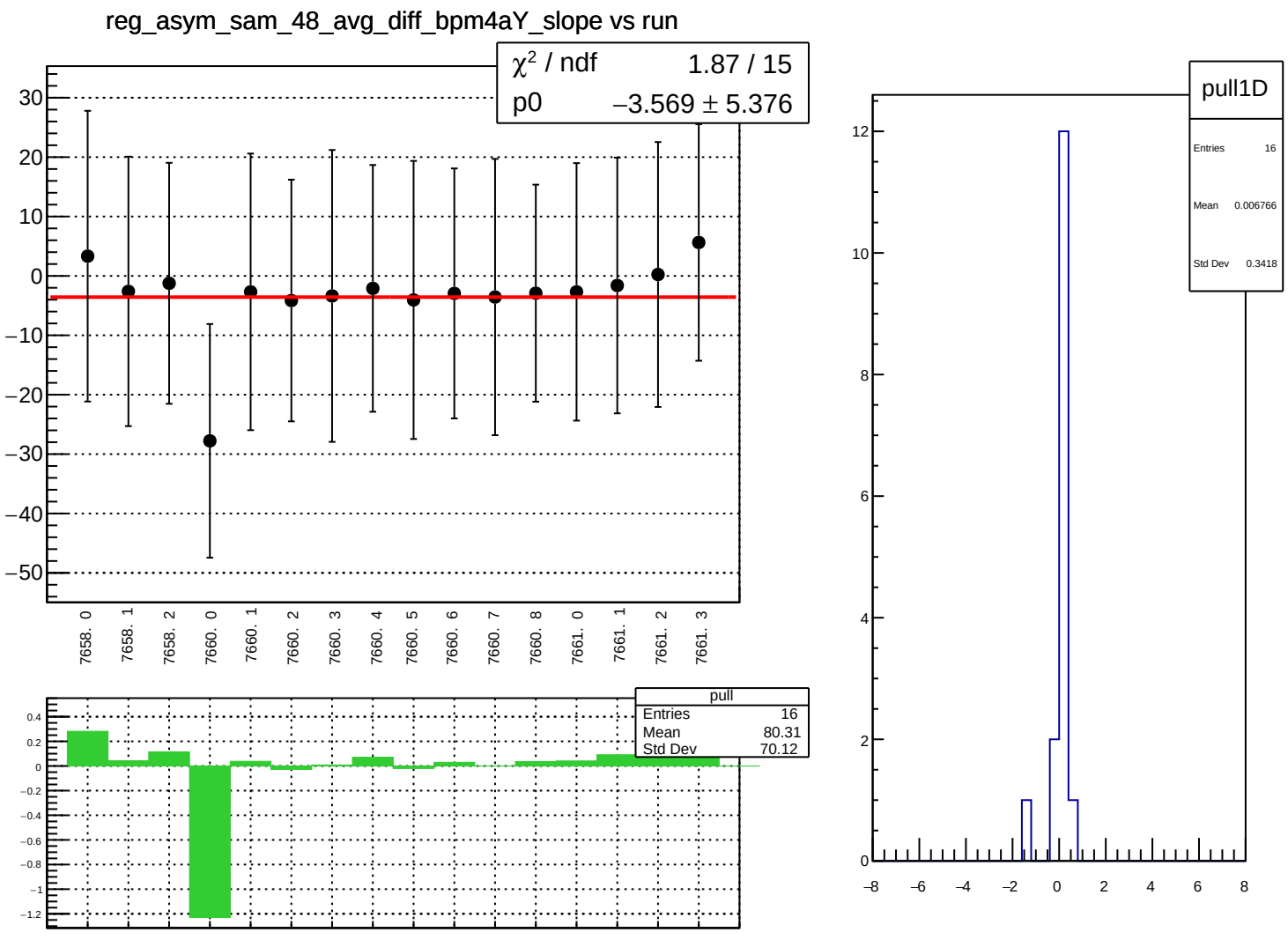

pull1D
Entries 16
Mean −0.005373
Std Dev 0.1677
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

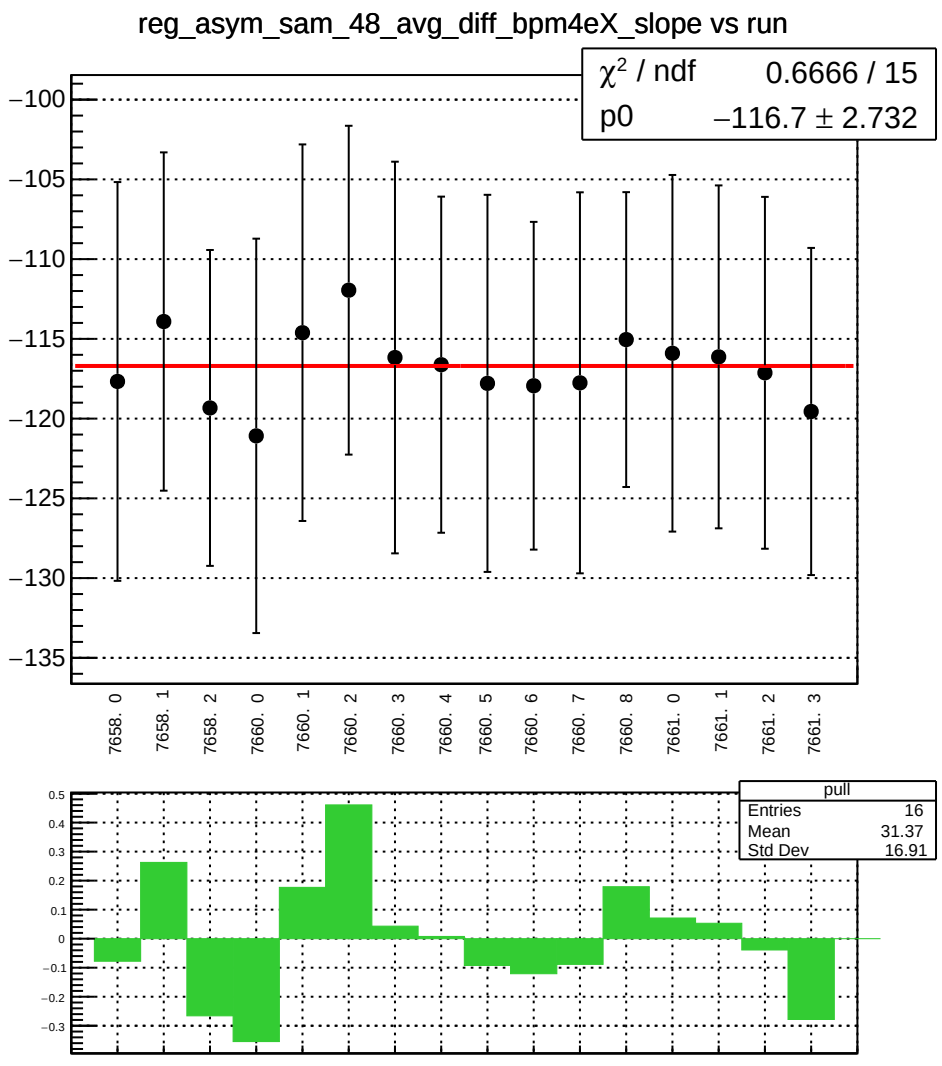

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.8492 / 15
p0 −96.52 ± 9.818
−40
−60
−80
−100
−120
−140
−160
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 38.45
Std Dev 30.31
0.2
0
−0.2
−0.4
−0.6
−0.8

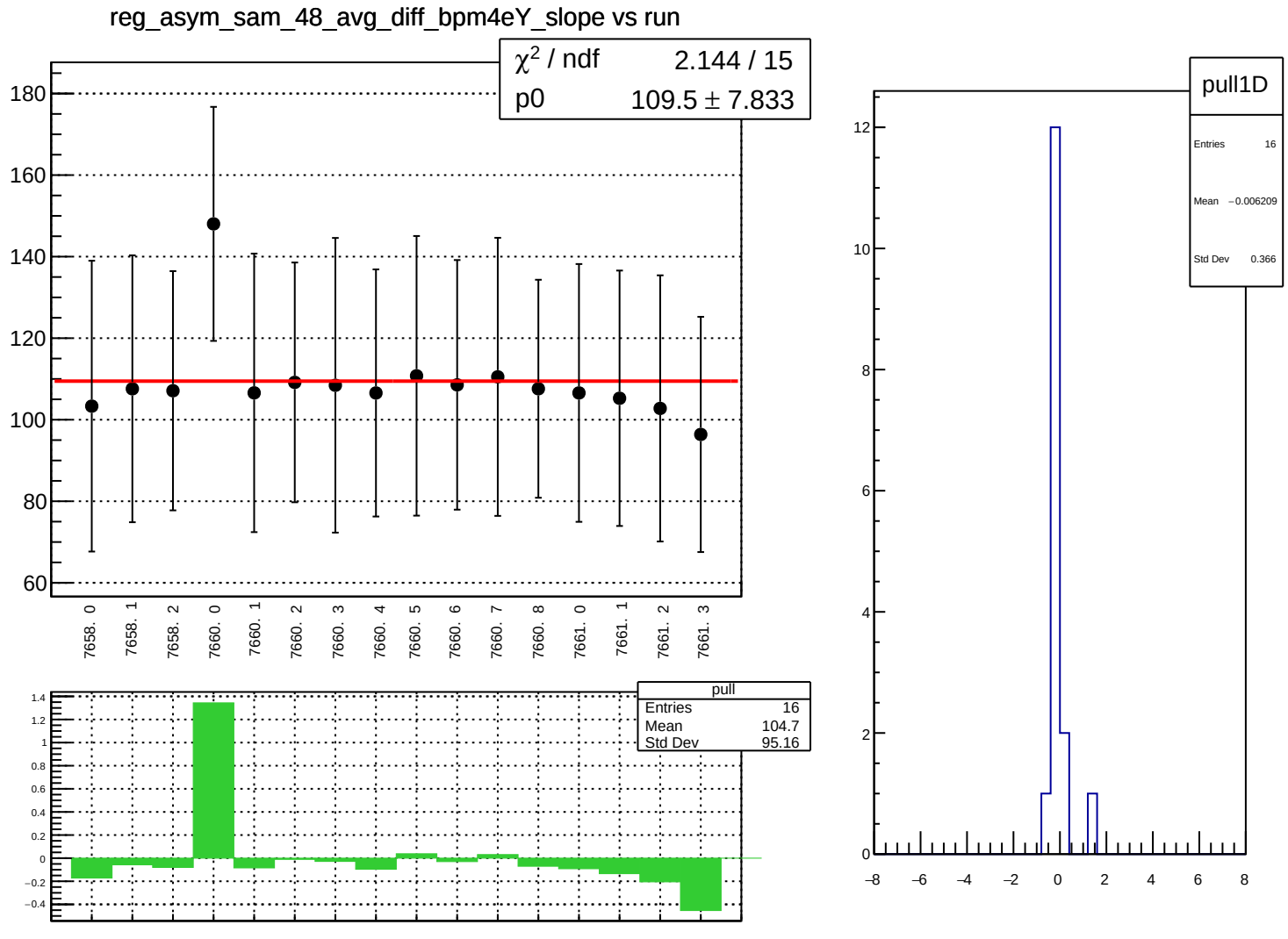

pull1D
Entries 16
Mean 0.006918
Std Dev 0.2303
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

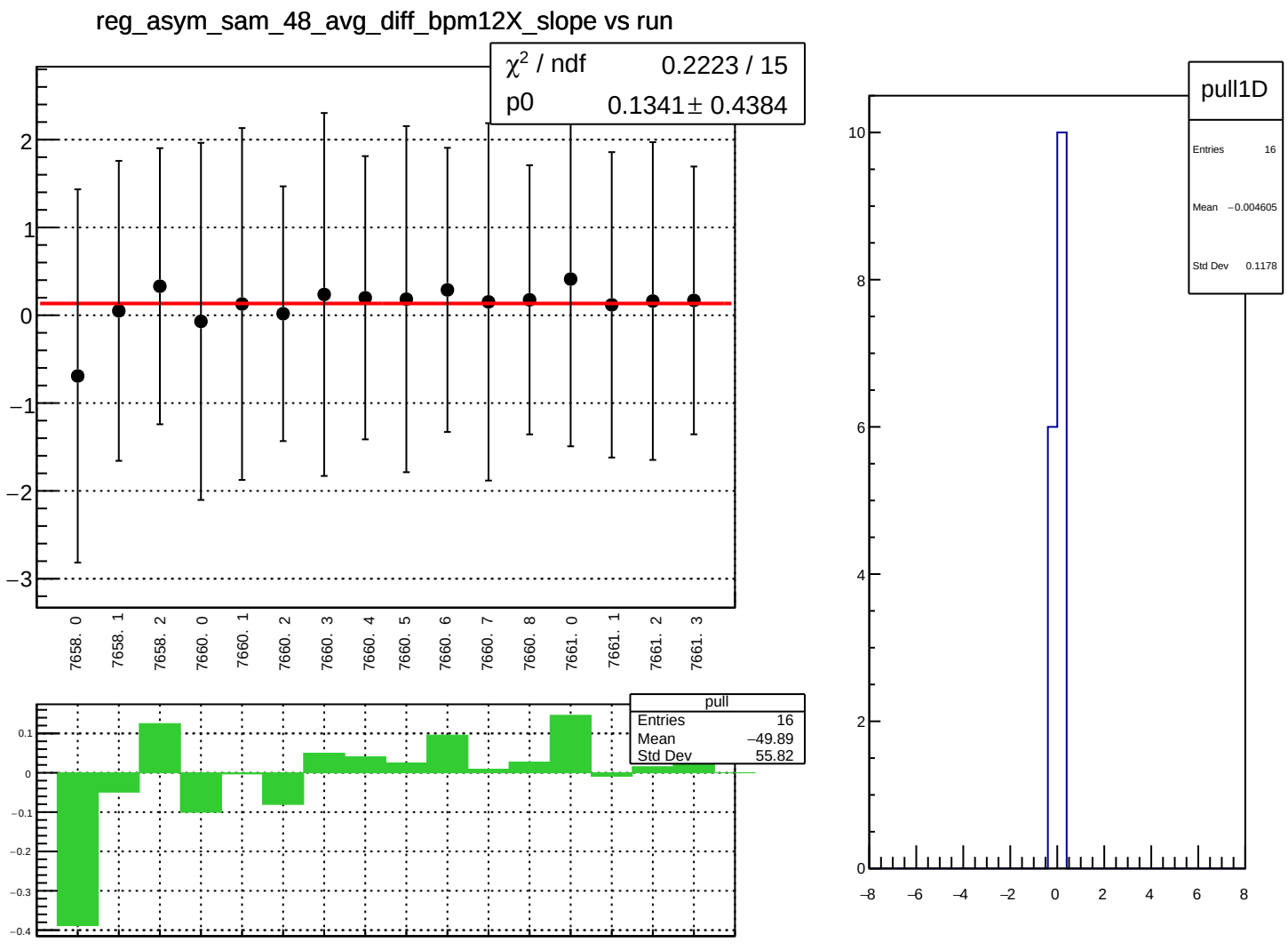

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 0.128 / 15
p0 −0.08775 ± 0.5522
3
2
1
0
−1
−2
−3
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −19.2
Std Dev 29.16
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
pull1D
Entries 16
Mean 0.004096
Std Dev 0.08934
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

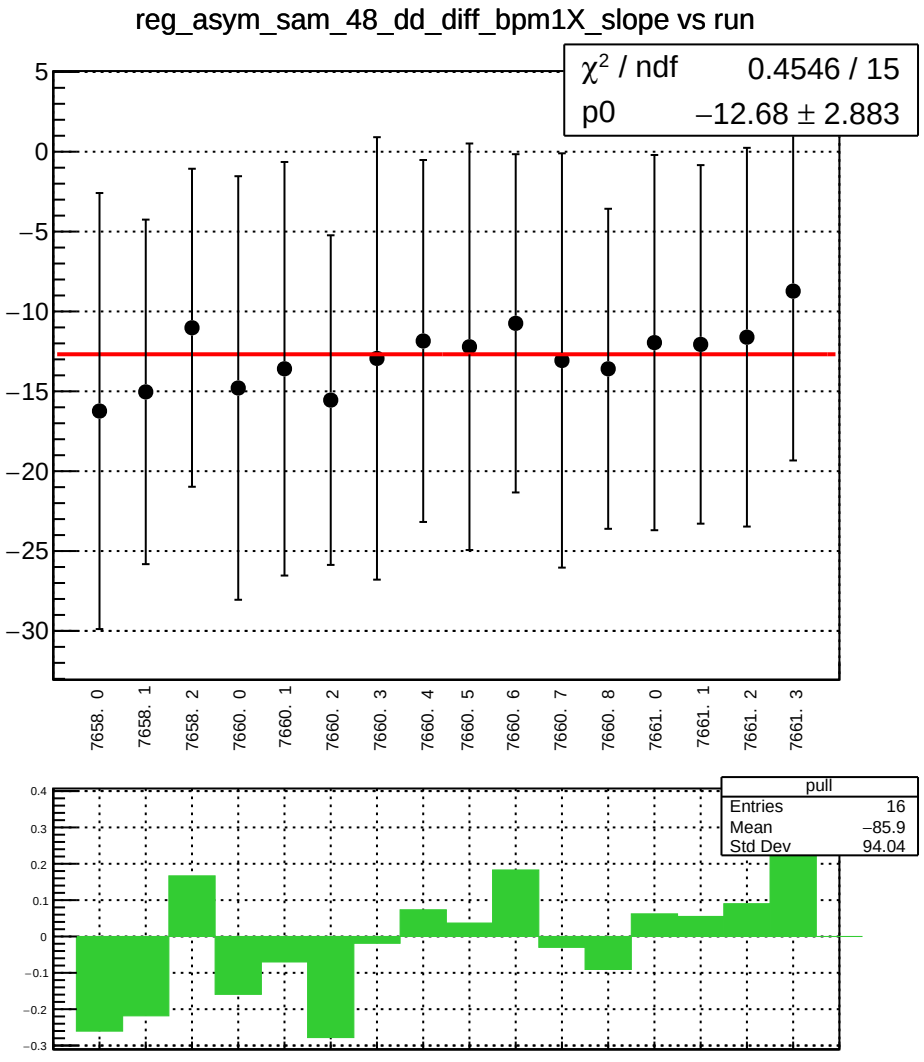

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 0.5342 / 15
p0 13.68 ± 3.323
30
25
20
15
10
5
0
−5
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −133.5
Std Dev 141.5
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 16
Mean −0.003872
Std Dev 0.1827
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

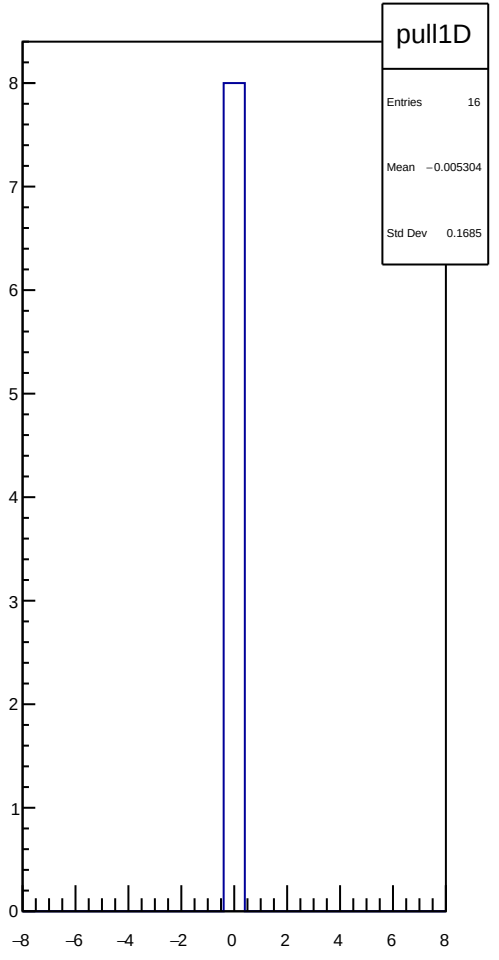

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.87 / 15
p0 −3.569 ± 5.376
30
20
10
0
−10
−20
−30
−40
−50
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 80.31
Std Dev 70.12
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 16
Mean 0.006766
Std Dev 0.3418
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

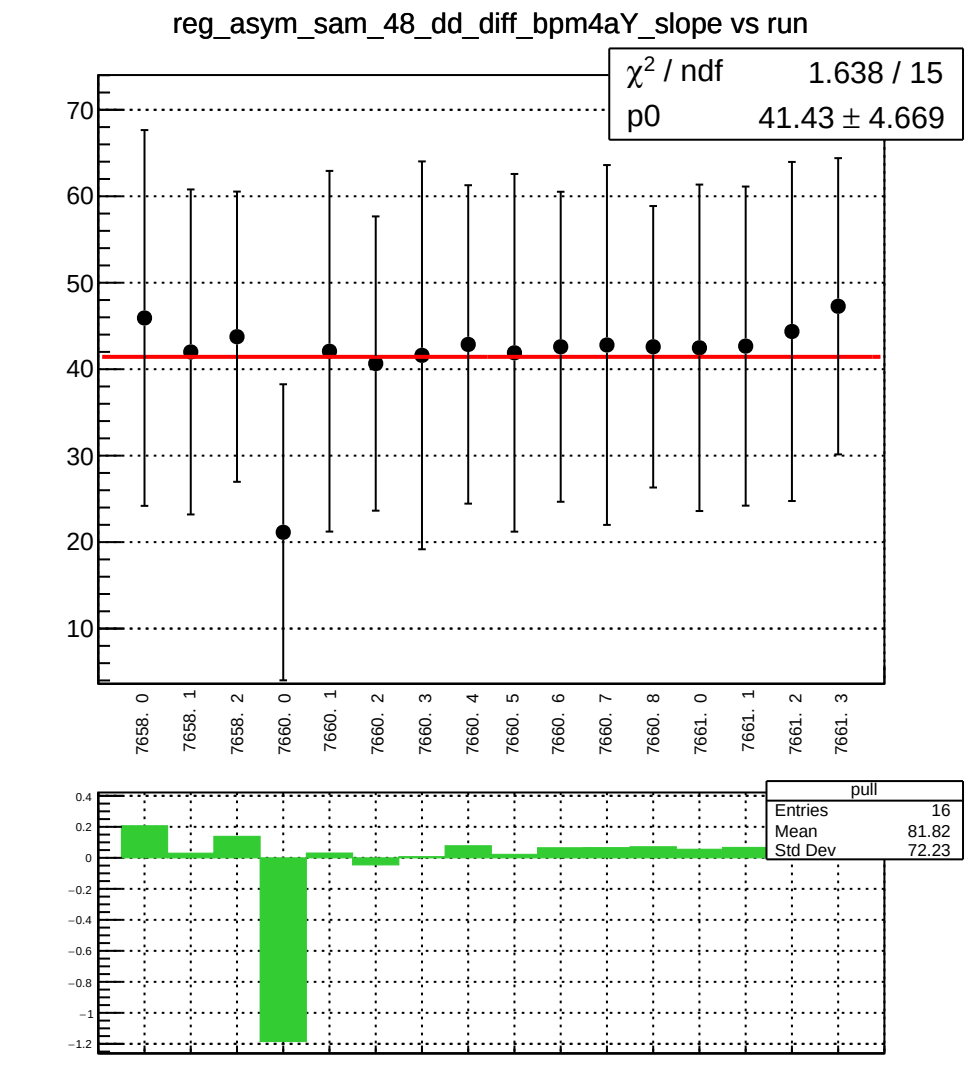

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 0.6666 / 15
p0 −116.7 ± 2.732
−100
−105
−110
−115
−120
−125
−130
−135
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 31.37
Std Dev 16.91
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 16
Mean −0.003899
Std Dev 0.2041
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

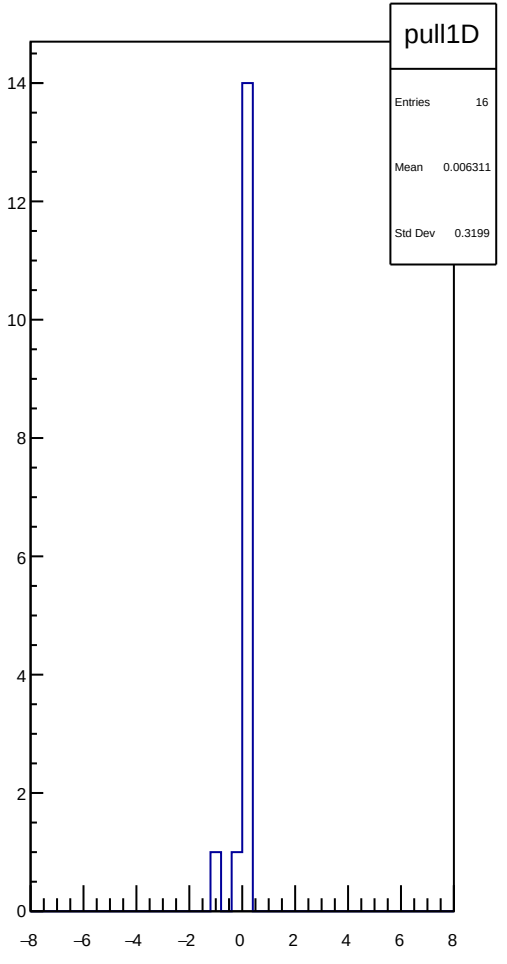

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.144 / 15
p0 109.5 ± 7.833
180
160
140
120
100
80
60
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 104.7
Std Dev 95.16
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 16
Mean −0.006209
Std Dev 0.366
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

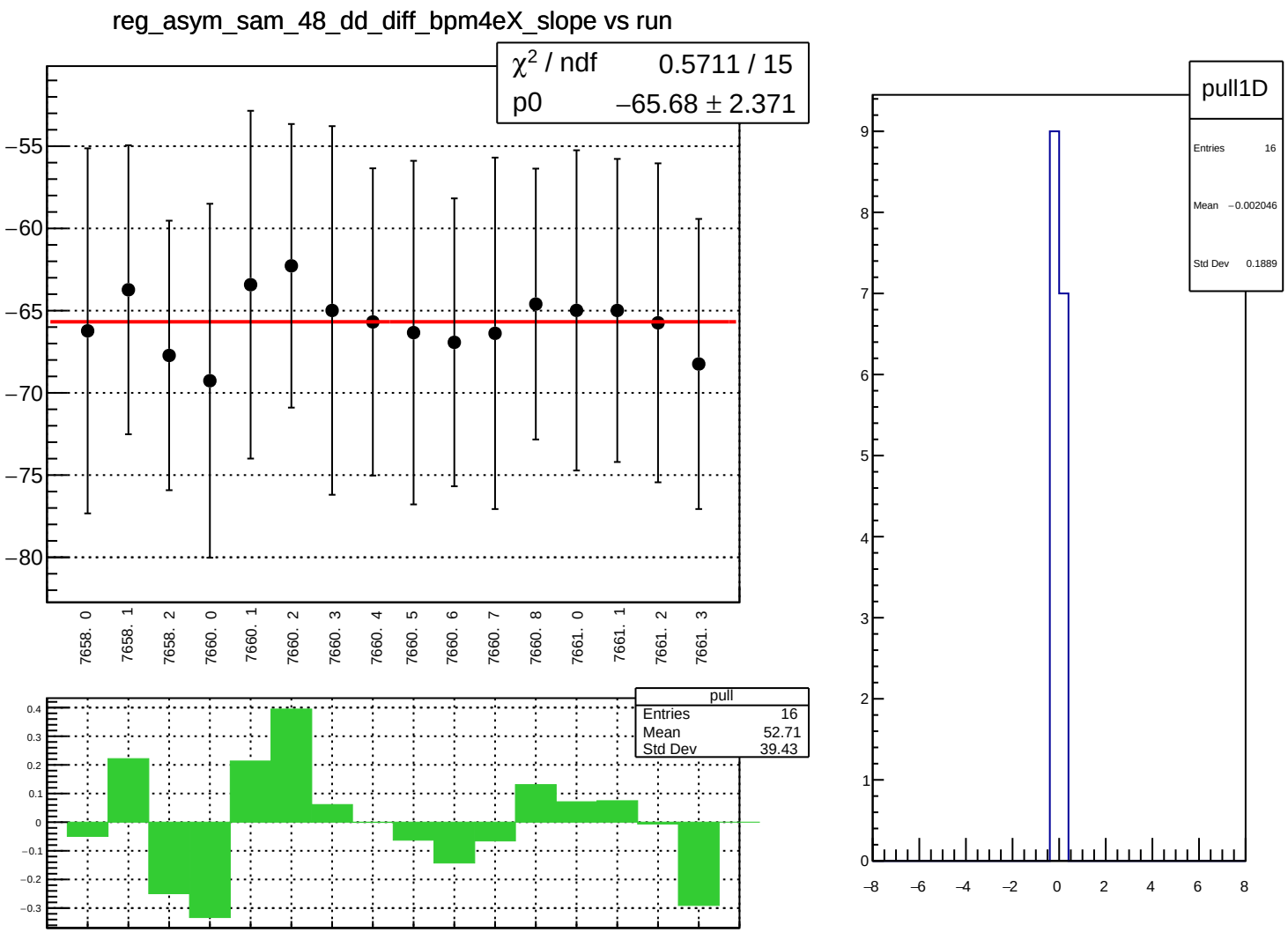

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 0.2223 / 15
p0 0.1341 ± 0.4384
2
1
0
−1
−2
−3
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −49.89
Std Dev 55.82
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 16
Mean −0.004605
Std Dev 0.1178
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

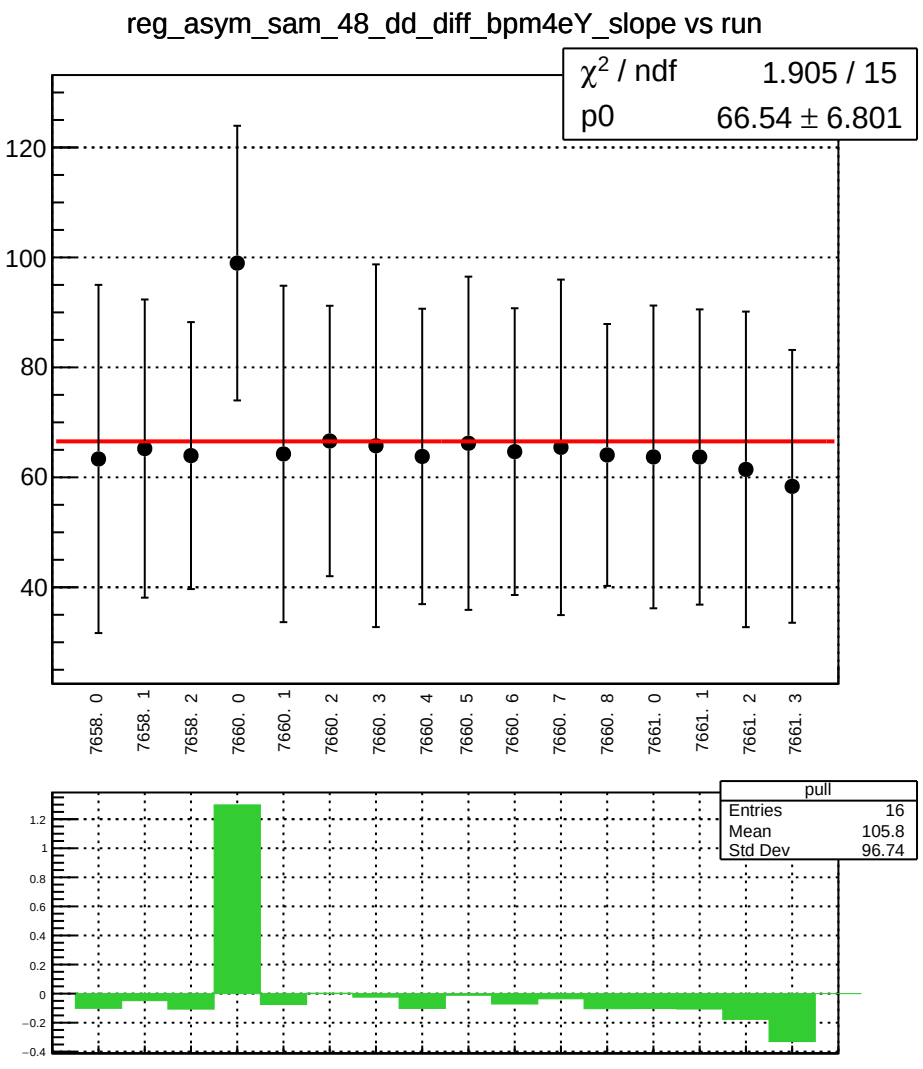

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 0.4546 / 15
p0 −12.68 ± 2.883
5
0
−5
−10
−15
−20
−25
−30
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −85.9
Std Dev 94.04
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

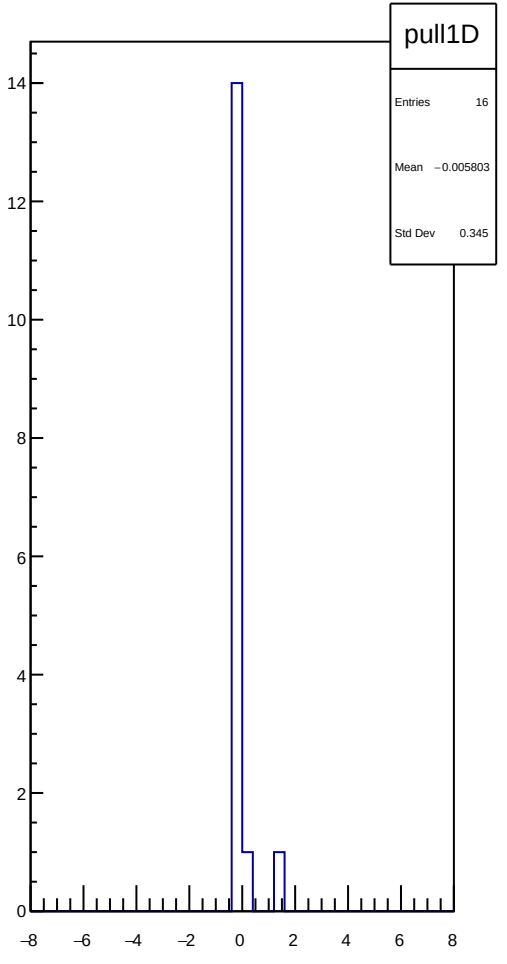

pull1D
Entries 16
Mean −0.005304
Std Dev 0.1685
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

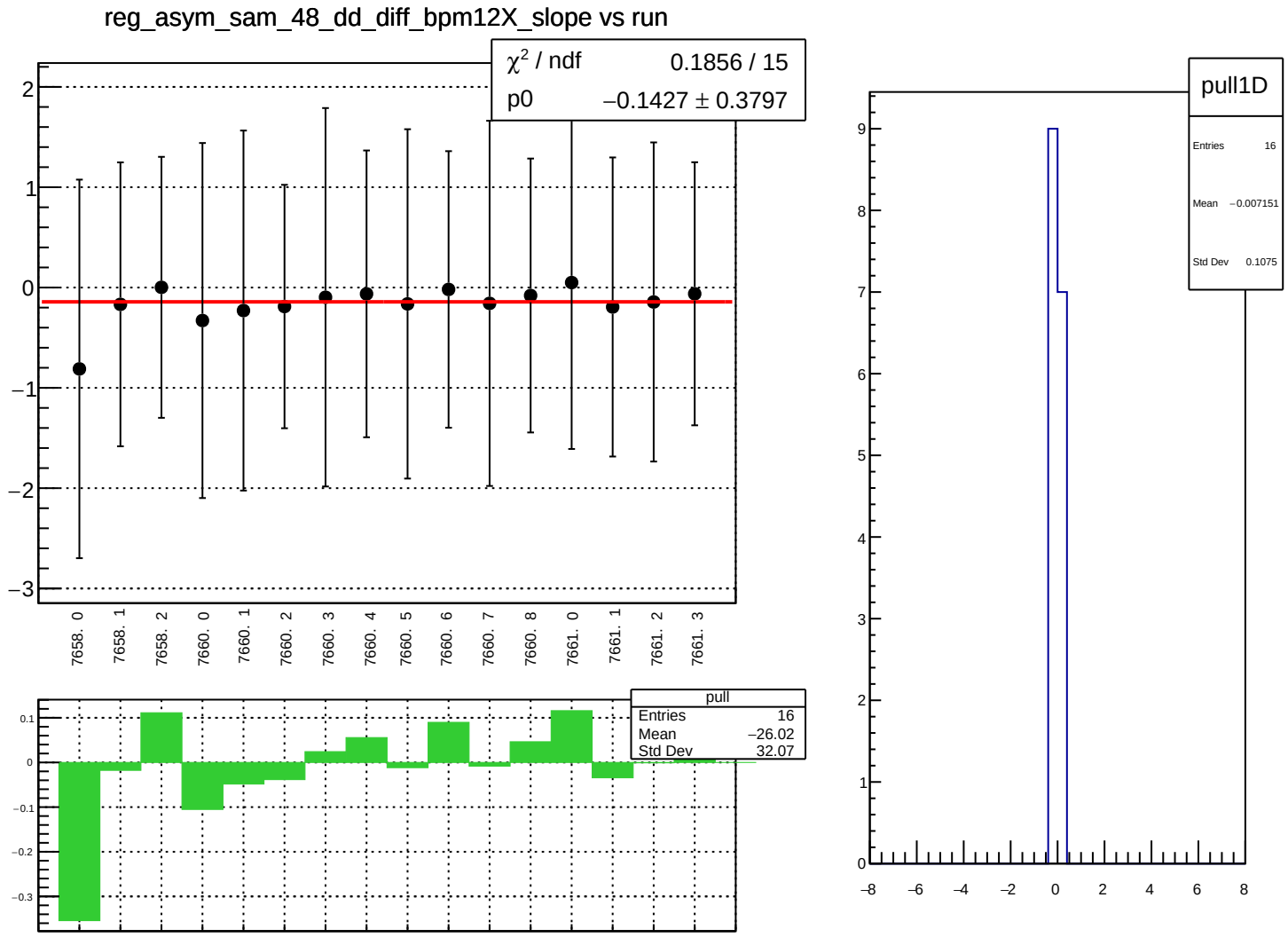

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.638 / 15
p0 41.43 ± 4.669
70
60
50
40
30
20
10
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 81.82
Std Dev 72.23
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

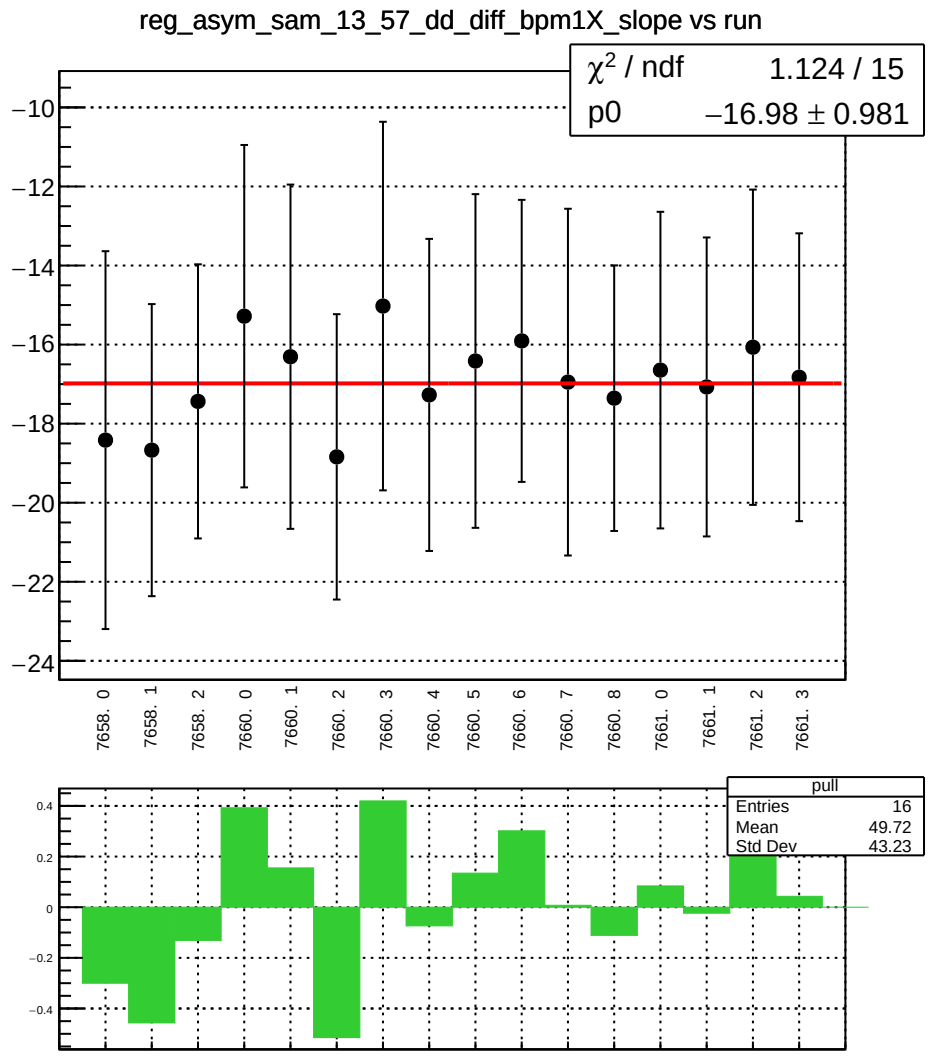

pull1D
Entries 16
Mean 0.006311
Std Dev 0.3199
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

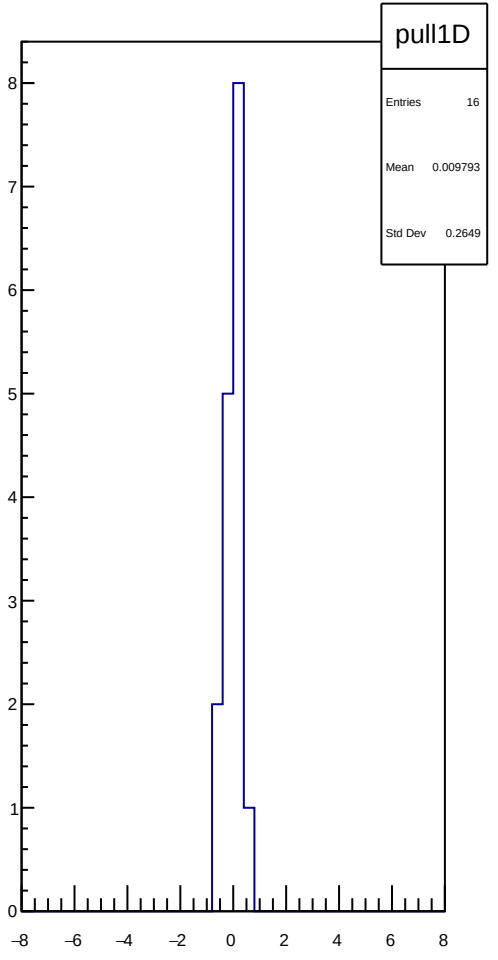

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.5711 / 15
p0 −65.68 ± 2.371
−55
−60
−65
−70
−75
−80
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 52.71
Std Dev 39.43
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 16
Mean −0.002046
Std Dev 0.1889
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

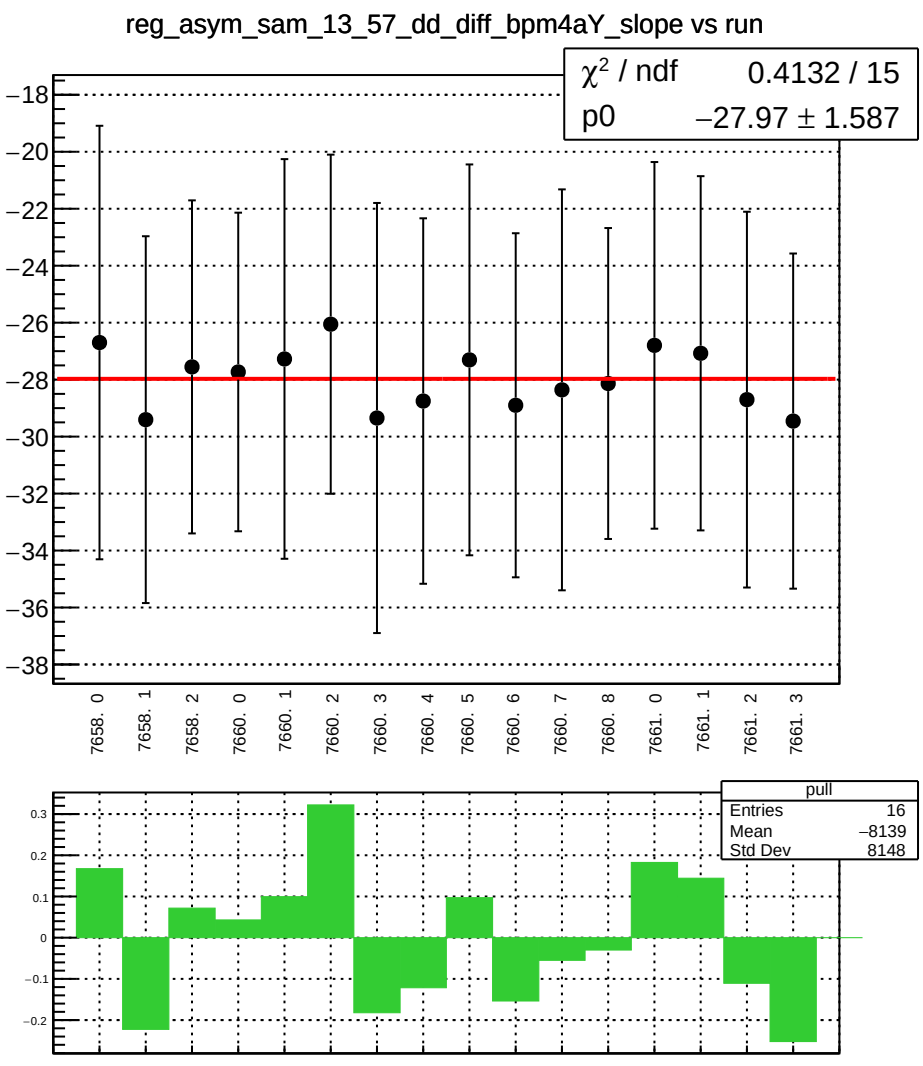

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.905 / 15
p0 66.54 ± 6.801
120
100
80
60
40
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 105.8
Std Dev 96.74
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4

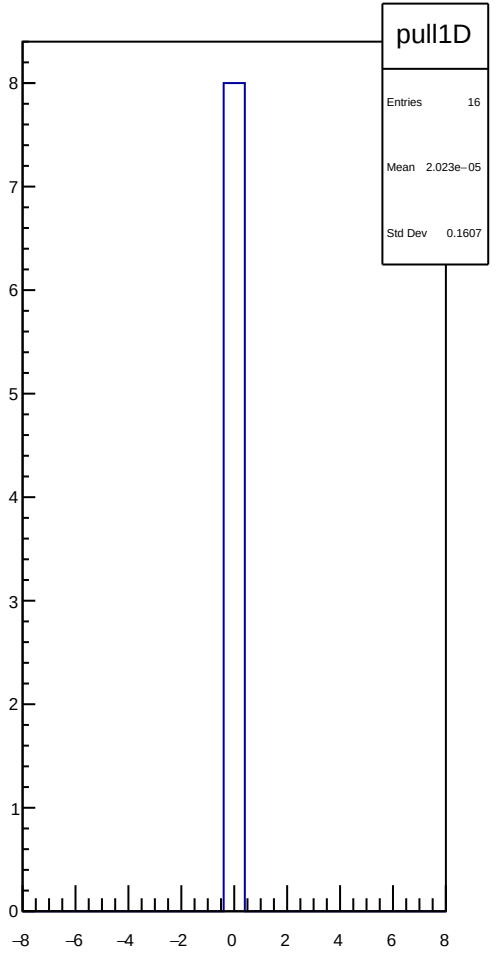

pull1D
Entries 16
Mean −0.005803
Std Dev 0.345
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

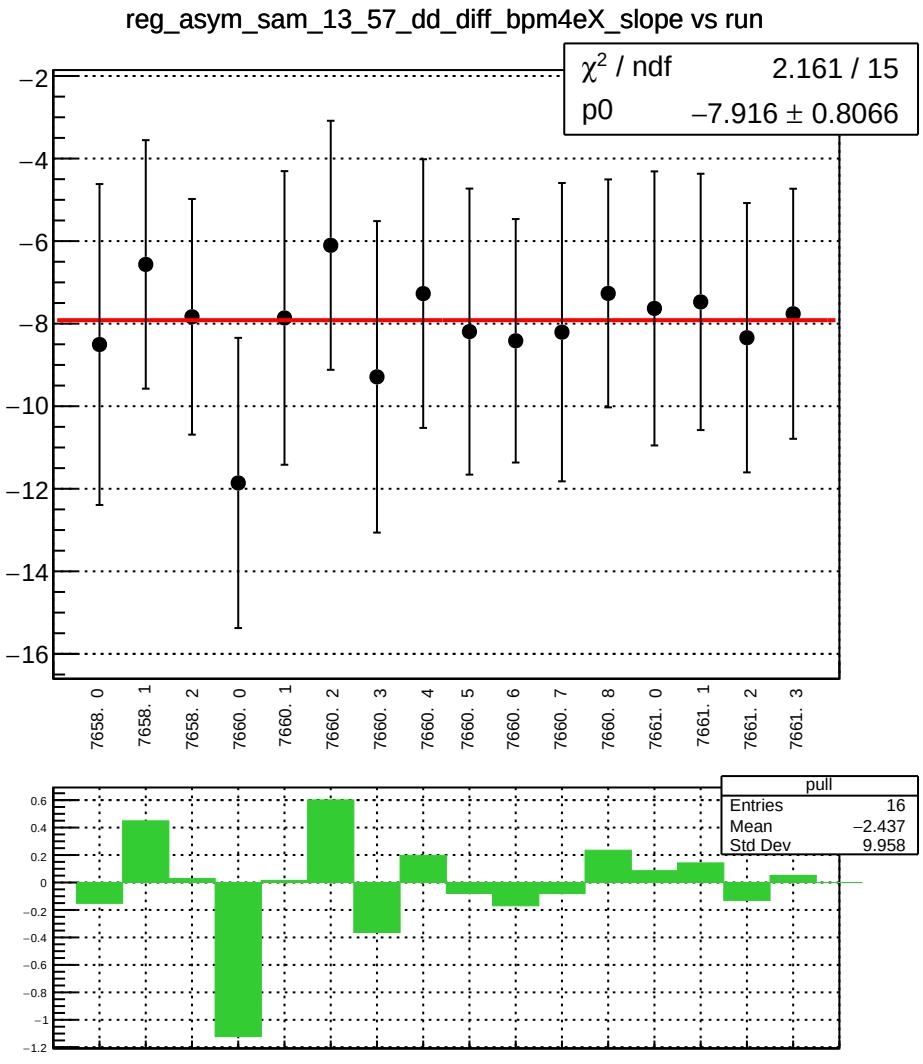

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 0.1856 / 15
p0 −0.1427 ± 0.3797
2
1
0
−1
−2
−3
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −26.02
Std Dev 32.07
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 16
Mean −0.007151
Std Dev 0.1075
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

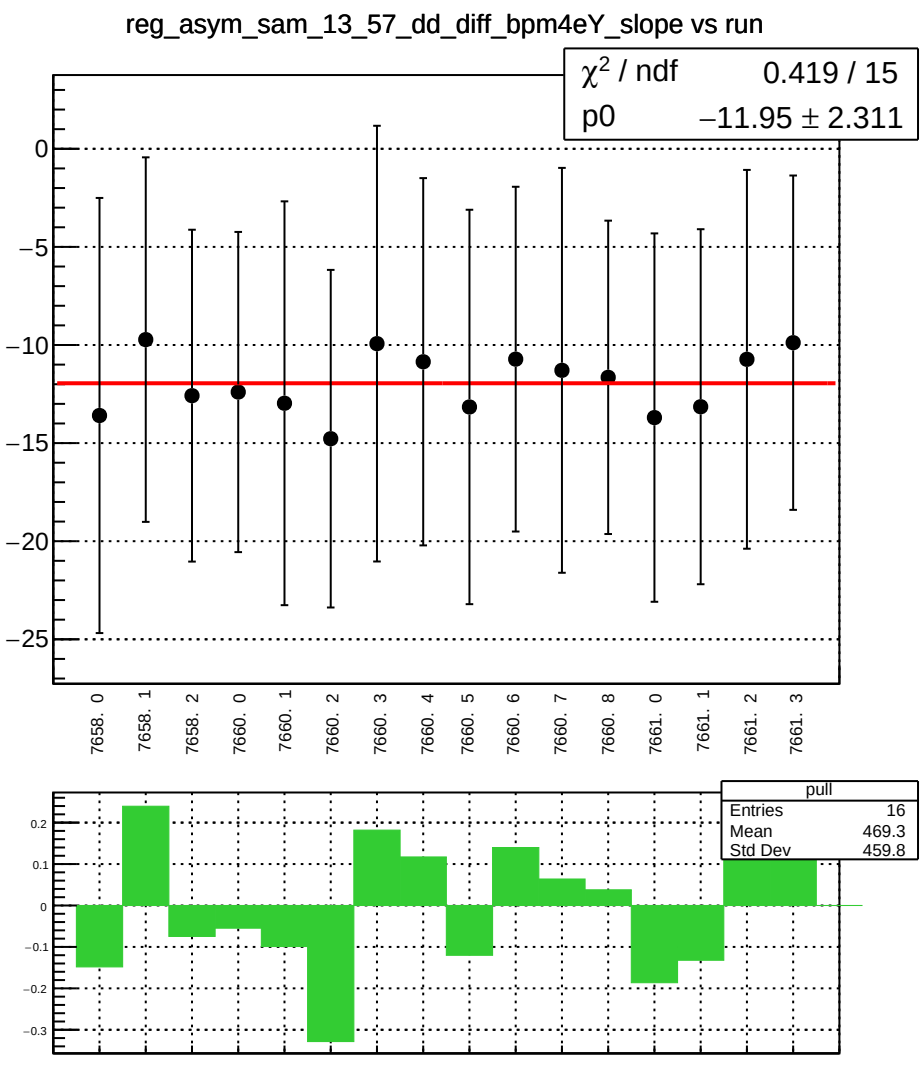

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 1.124 / 15
p0 −16.98 ± 0.981
−10
−12
−14
−16
−18
−20
−22
−24
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 49.72
Std Dev 43.23
0.4
0.2
0
−0.2
−0.4

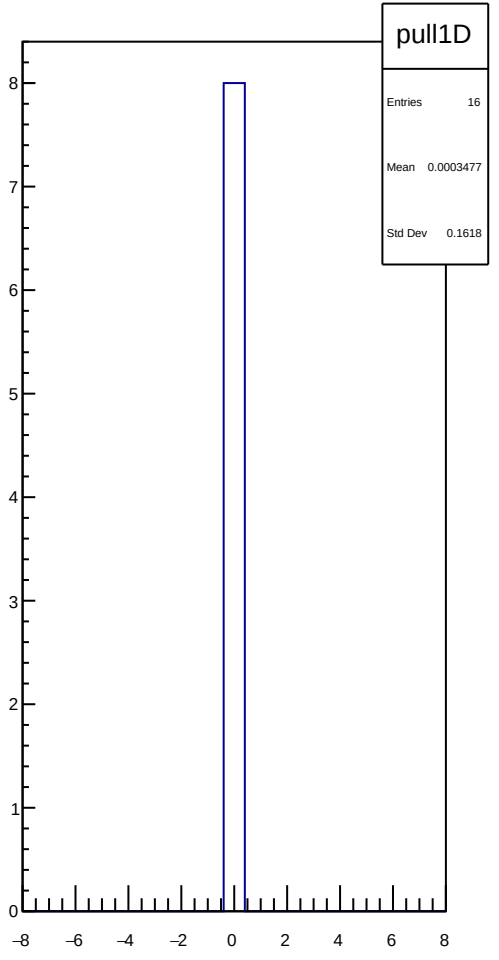

pull1D
Entries 16
Mean 0.009793
Std Dev 0.2649
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

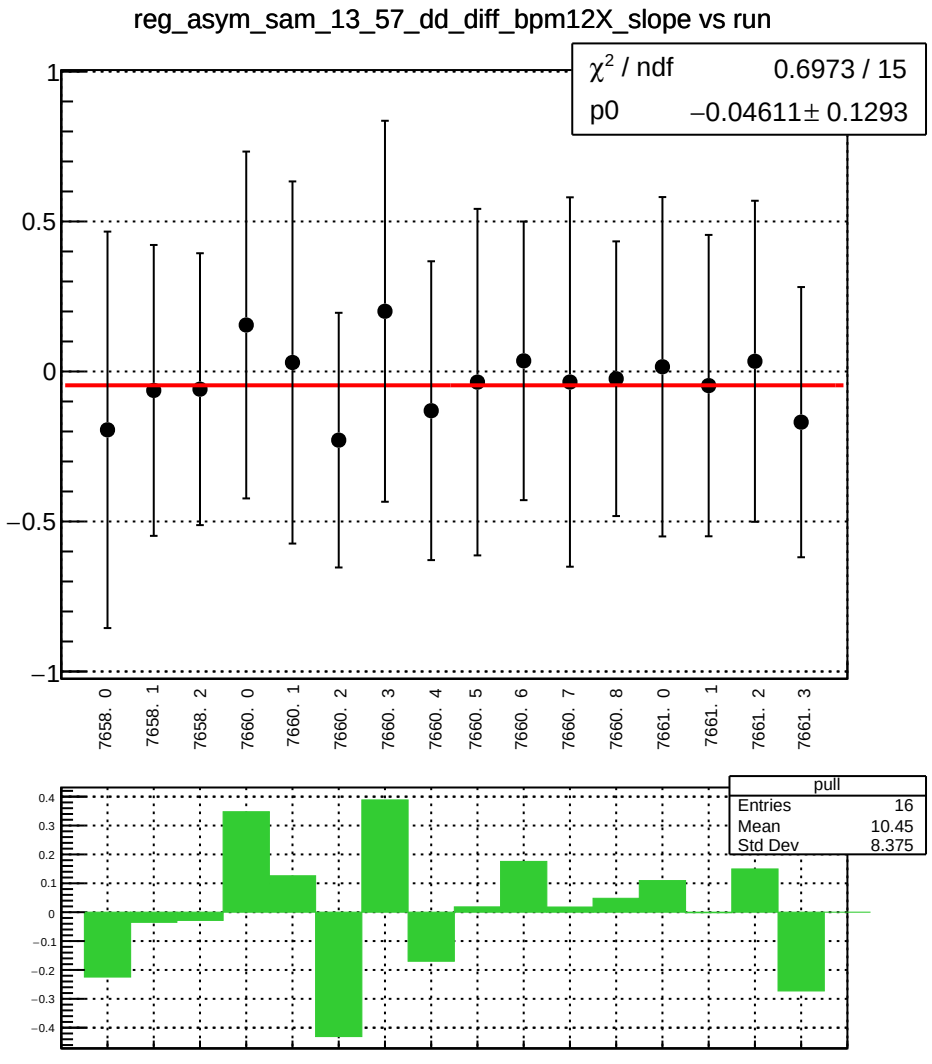

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.4132 / 15
p0 −27.97 ± 1.587
−18
−20
−22
−24
−26
−28
−30
−32
−34
−36
−38
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −8139
Std Dev 8148
0.3
0.2
0.1
0
−0.1
−0.2

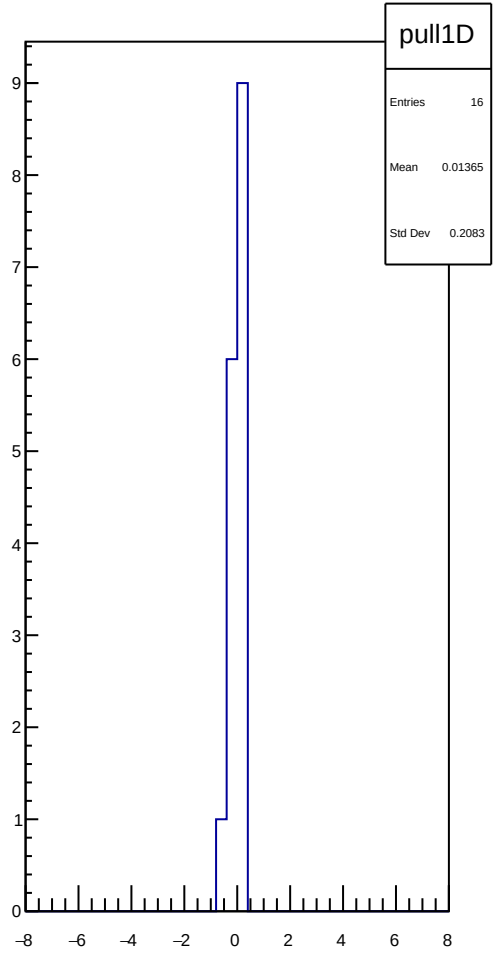

pull1D
Entries 16
Mean 2.023e−05
Std Dev 0.1607
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

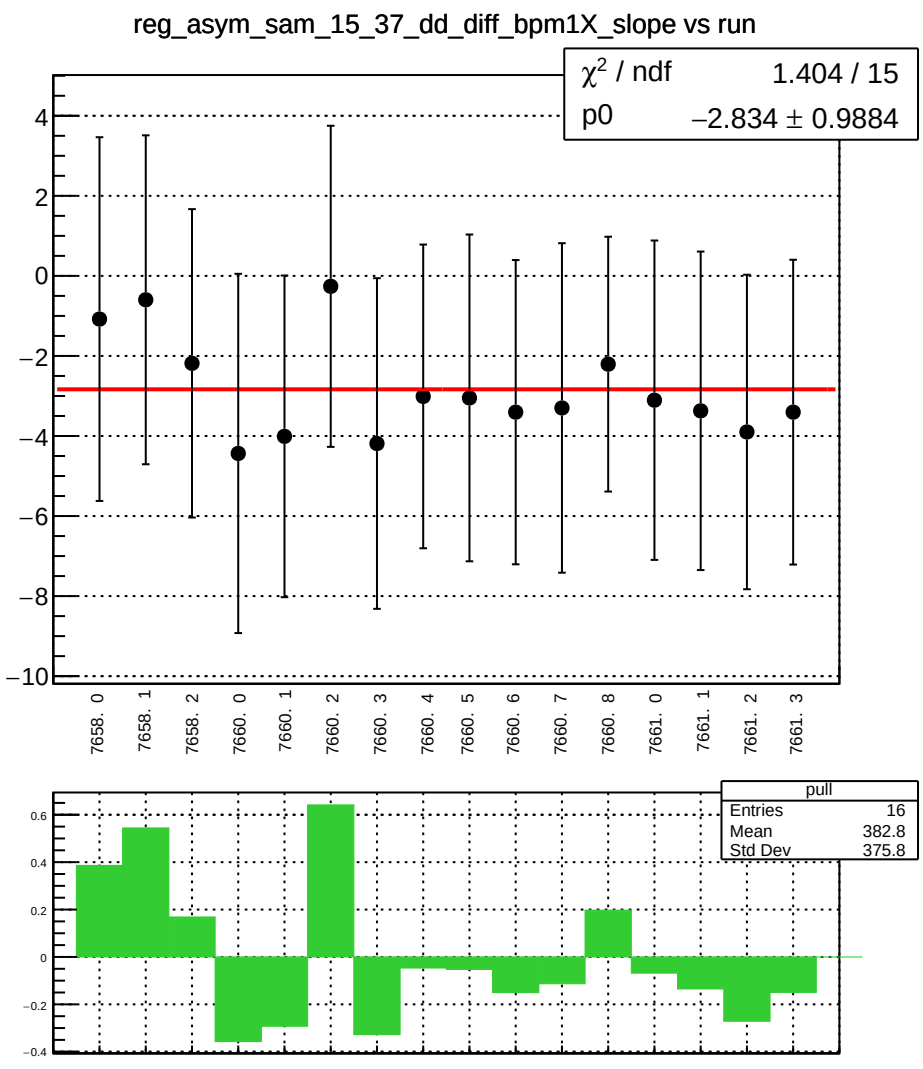

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.161 / 15
p0 −7.916 ± 0.8066
−2
−4
−6
−8
−10
−12
−14
−16
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −2.437
Std Dev 9.958
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 16
Mean −0.01819
Std Dev 0.3671
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

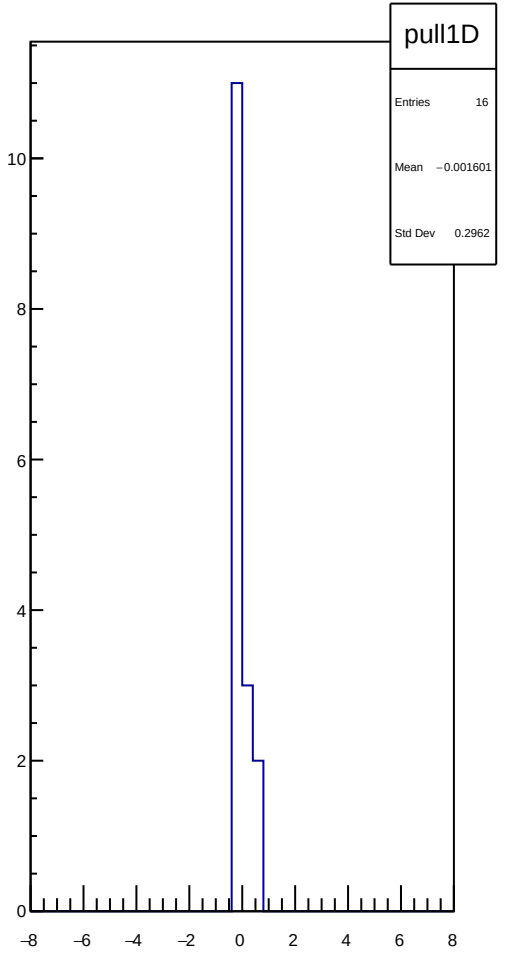

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.419 / 15
p0 −11.95 ± 2.311
0
−5
−10
−15
−20
−25
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 469.3
Std Dev 459.8
0.2
0.1
0
−0.1
−0.2
−0.3

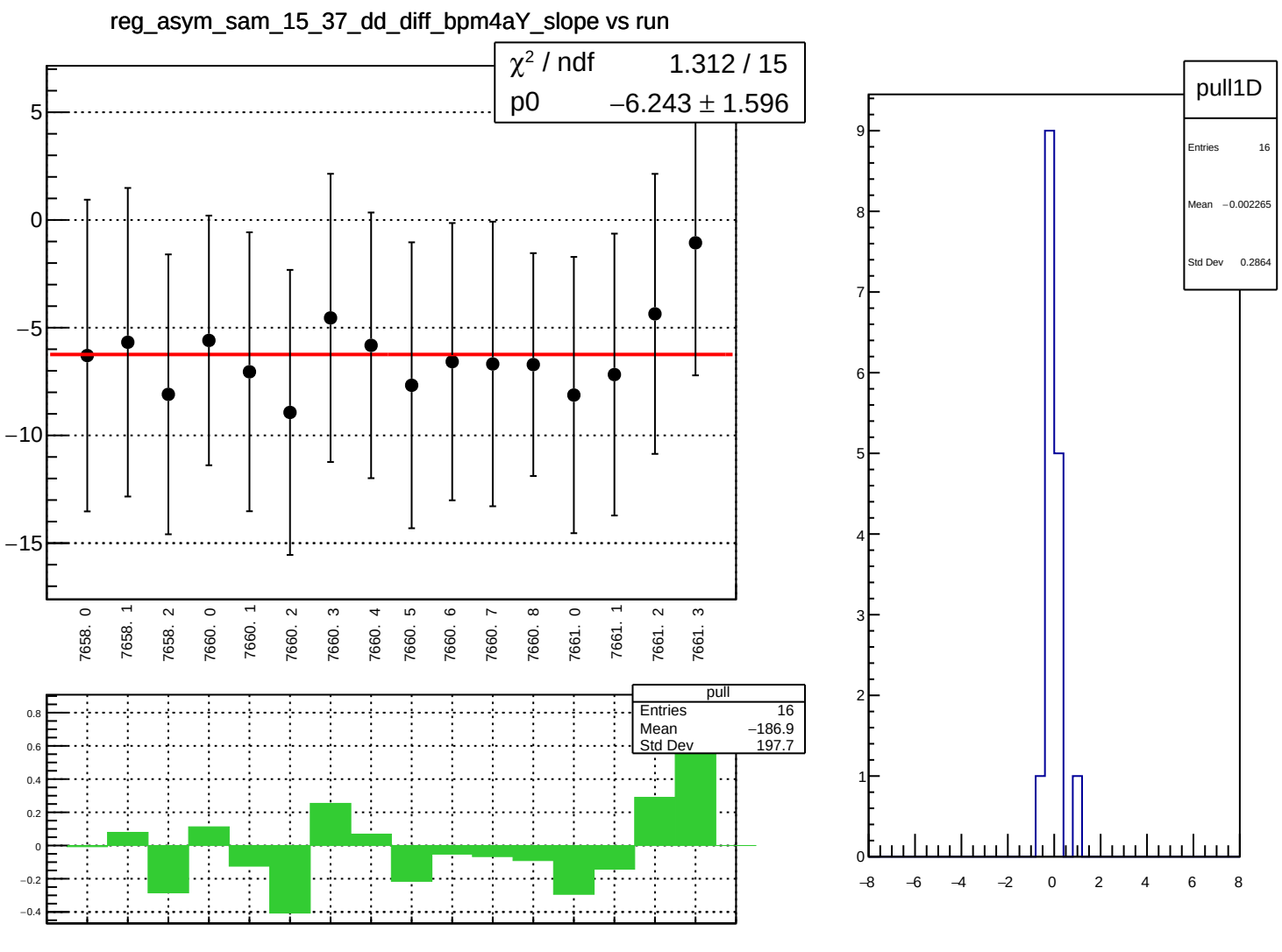

pull1D
Entries 16
Mean 0.0003477
Std Dev 0.1618
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

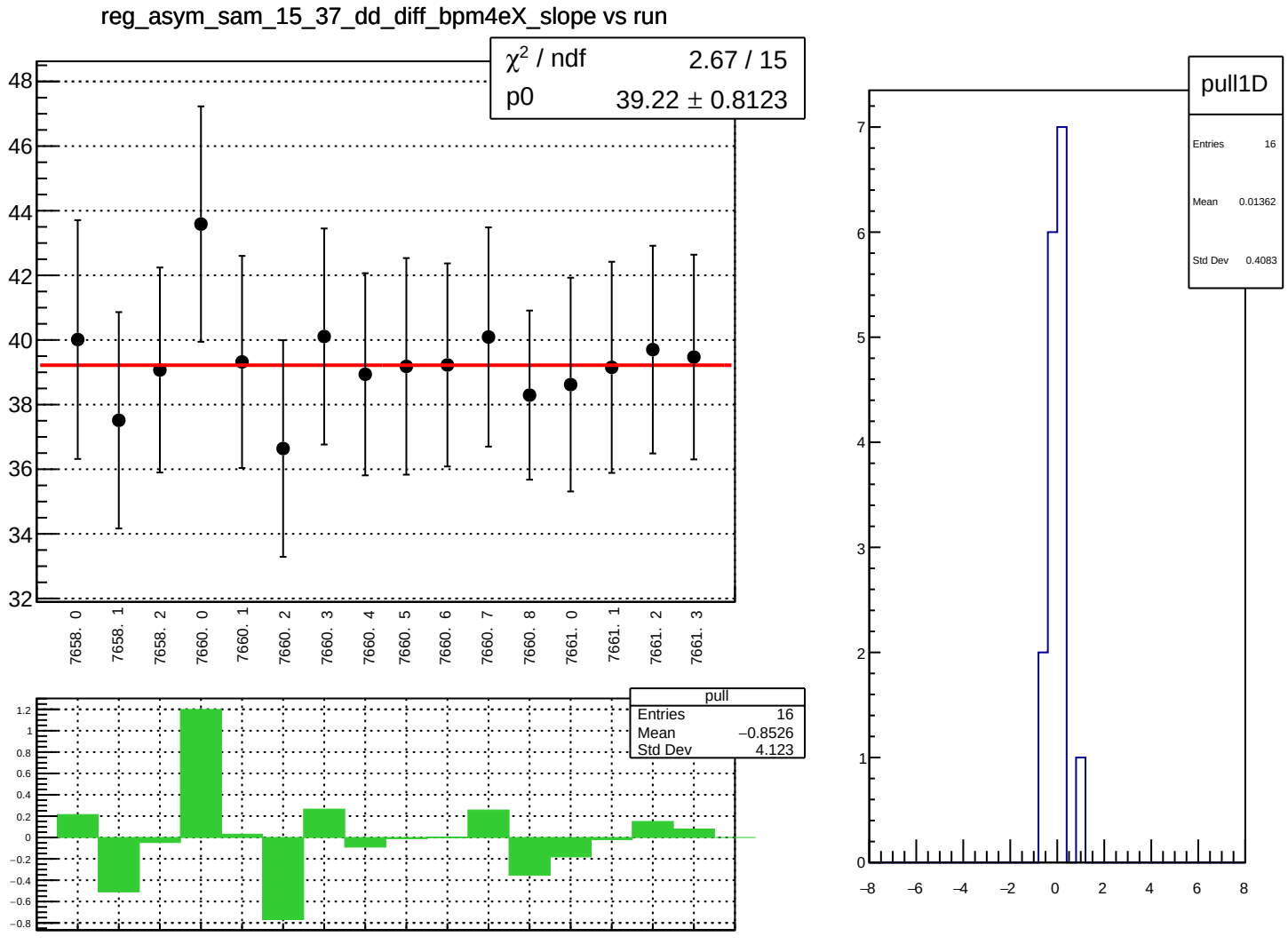

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 0.6973 / 15
p0 −0.04611± 0.1293
1
0.5
0
−0.5
−1
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 10.45
Std Dev 8.375
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

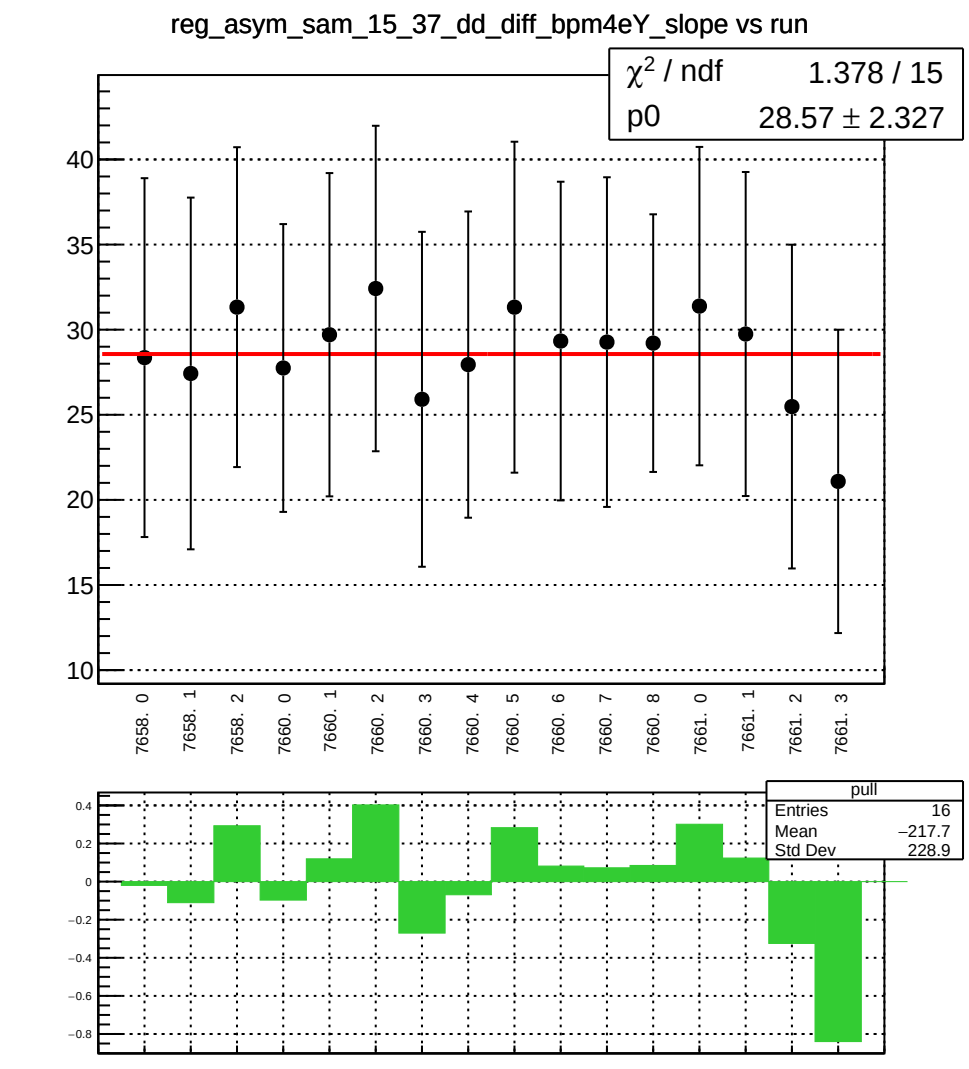

pull1D
Entries 16
Mean 0.01365
Std Dev 0.2083
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

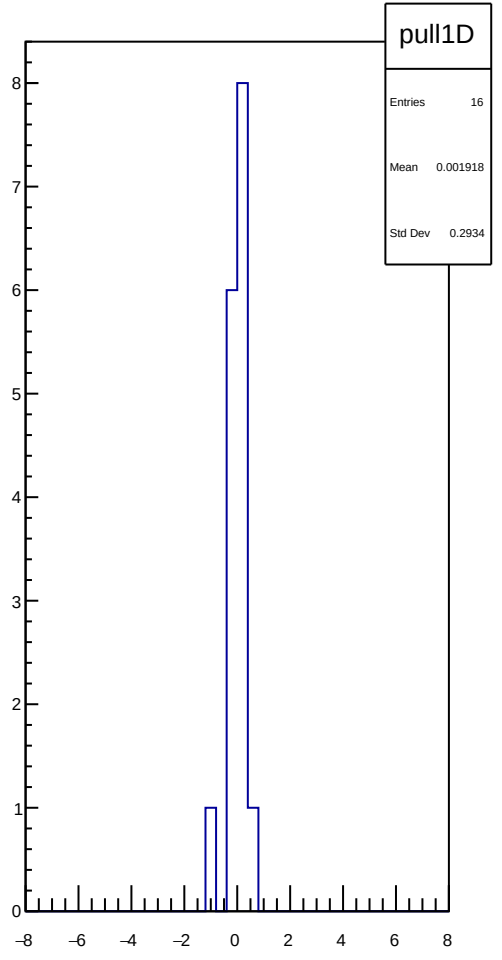

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 1.404 / 15
p0 −2.834 ± 0.9884
4
2
0
−2
−4
−6
−8
−10
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 382.8
Std Dev 375.8
0.6
0.4
0.2
0
−0.2
−0.4

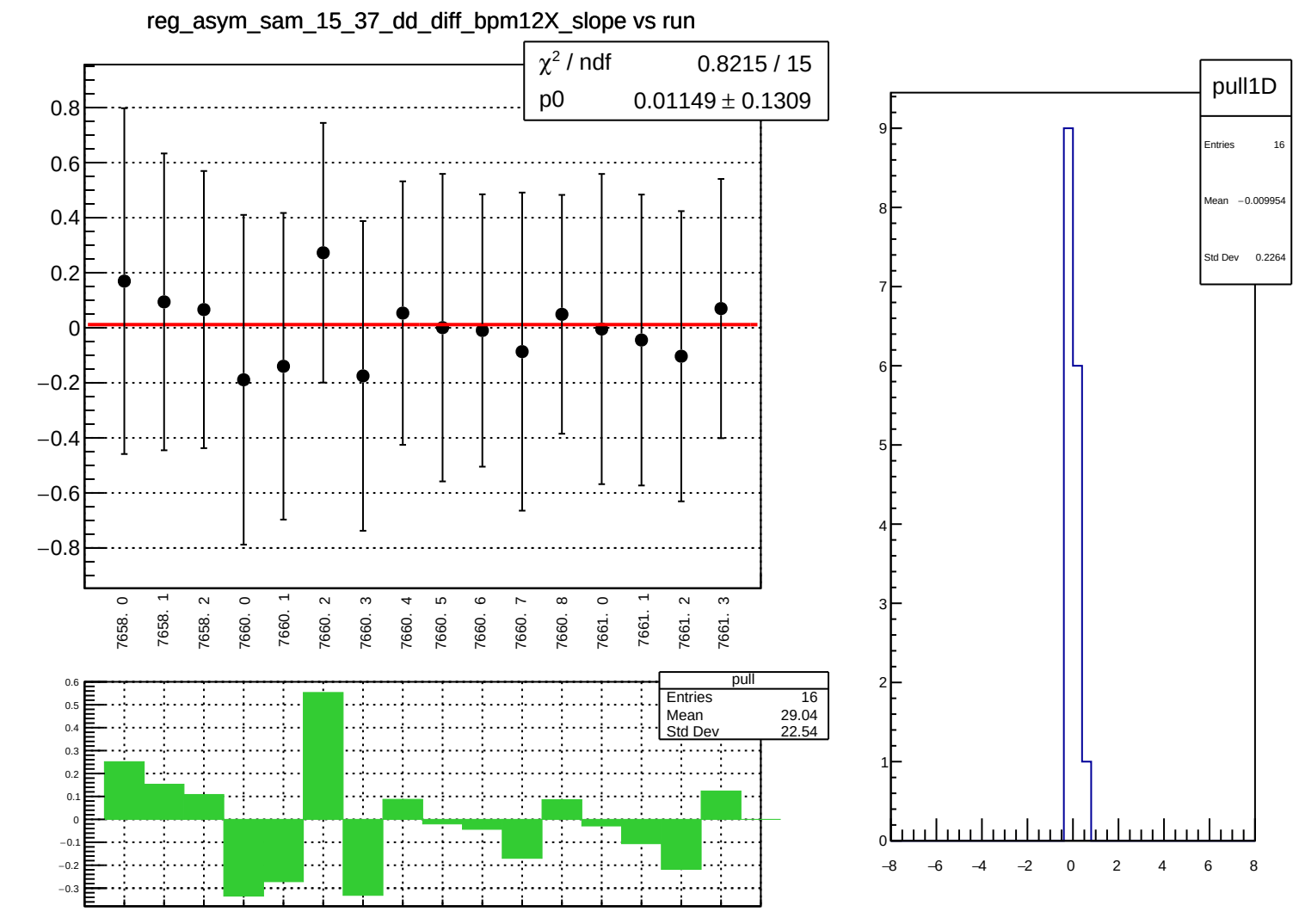

pull1D
Entries 16
Mean −0.001601
Std Dev 0.2962
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

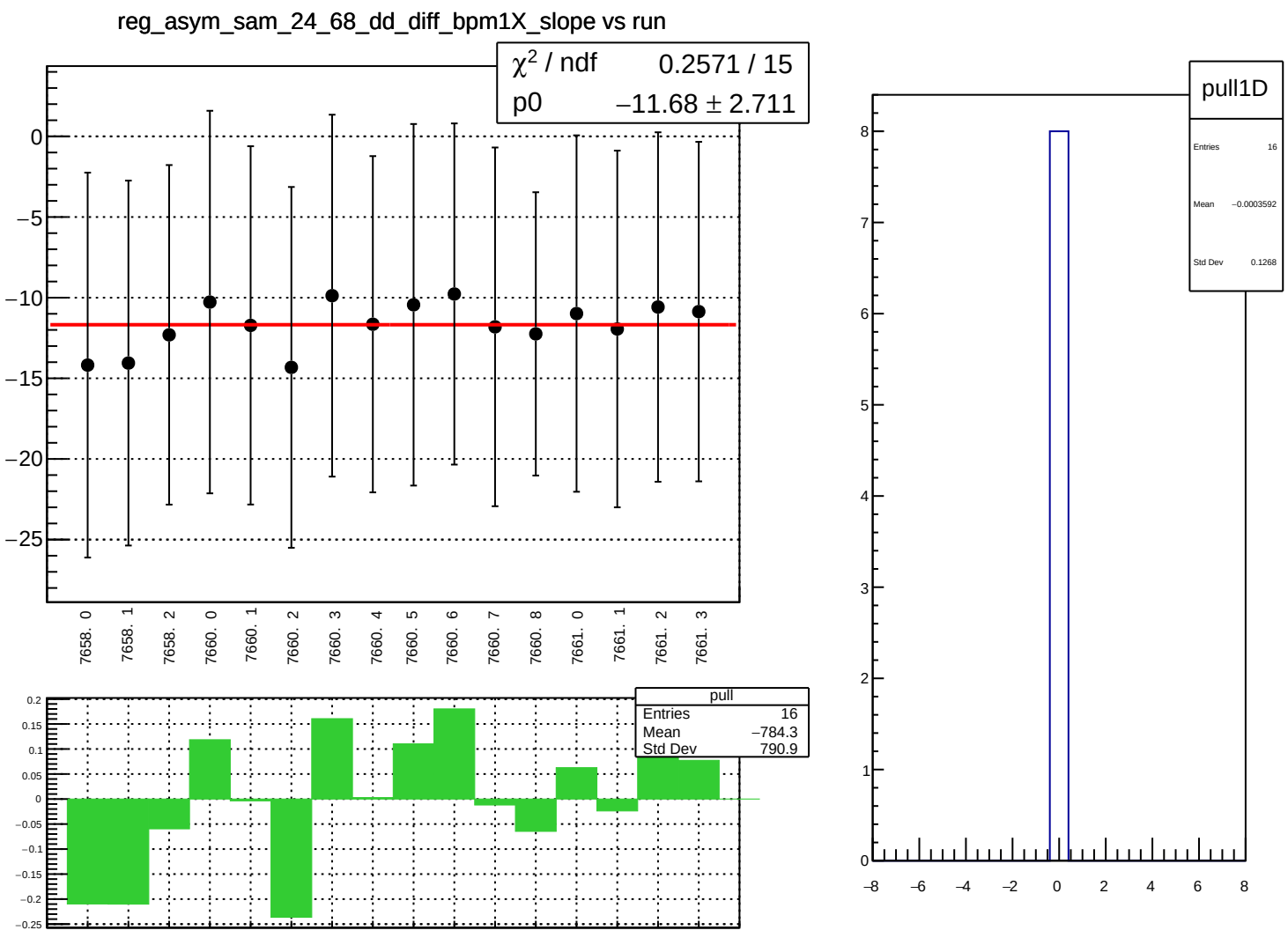

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.312 / 15
p0 −6.243 ± 1.596
5
0
−5
−10
−15
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −186.9
Std Dev 197.7
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 16
Mean −0.002265
Std Dev 0.2864
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

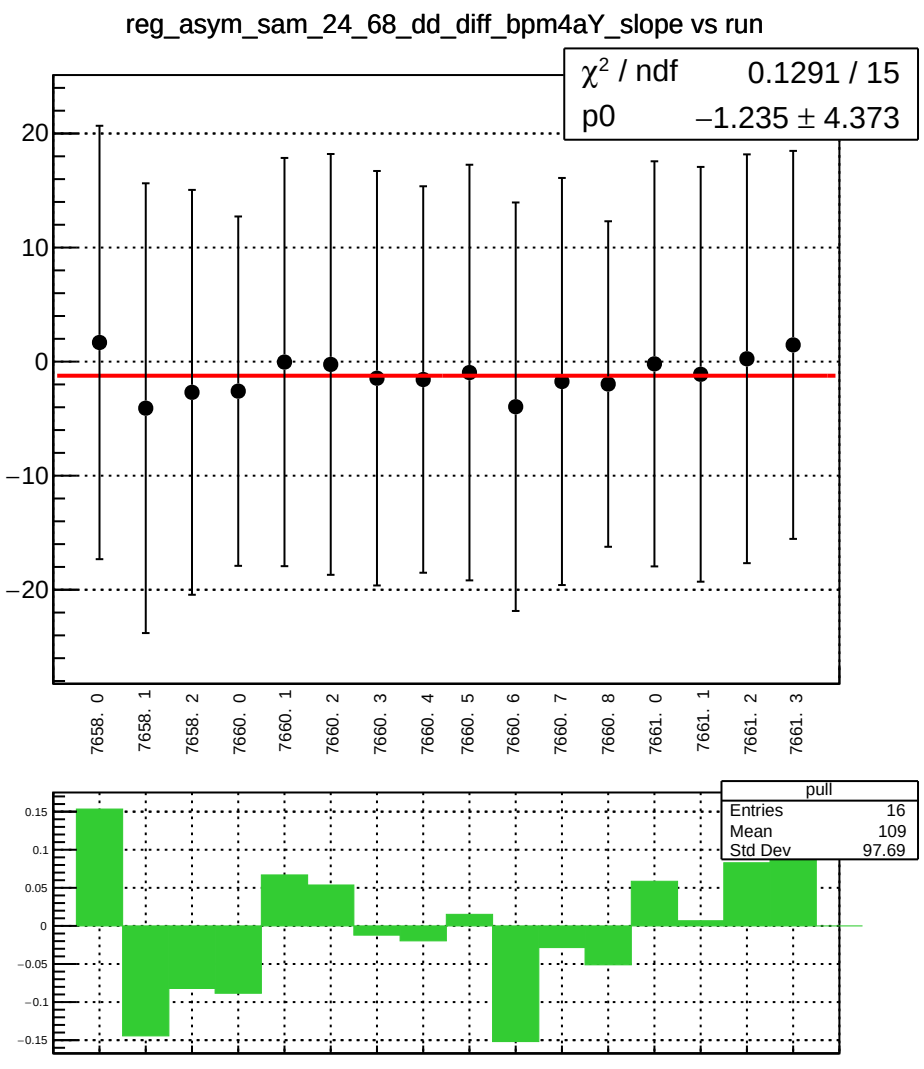

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.67 / 15
p0 39.22 ± 0.8123
48
46
44
42
40
38
36
34
32
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −0.8526
Std Dev 4.123
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 16
Mean 0.01362
Std Dev 0.4083
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

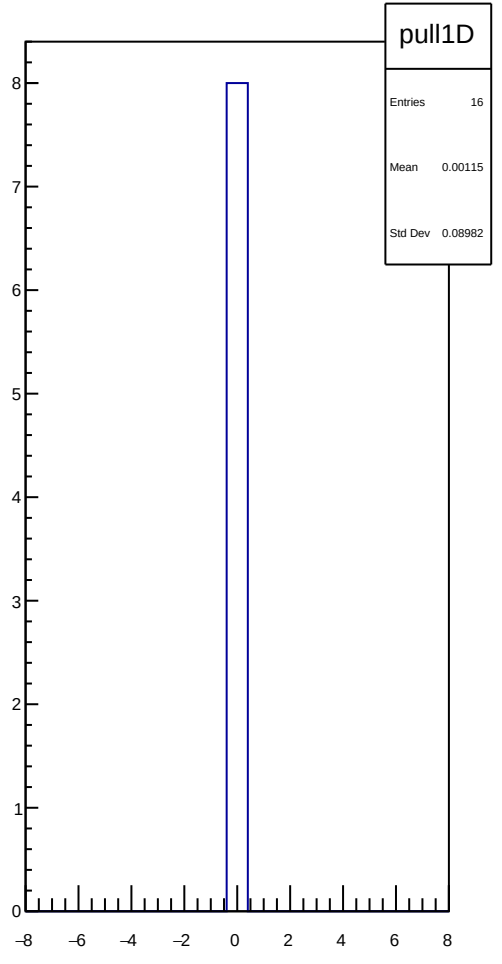

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.378 / 15
p0 28.57 ± 2.327
40
35
30
25
20
15
10
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −217.7
Std Dev 228.9
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

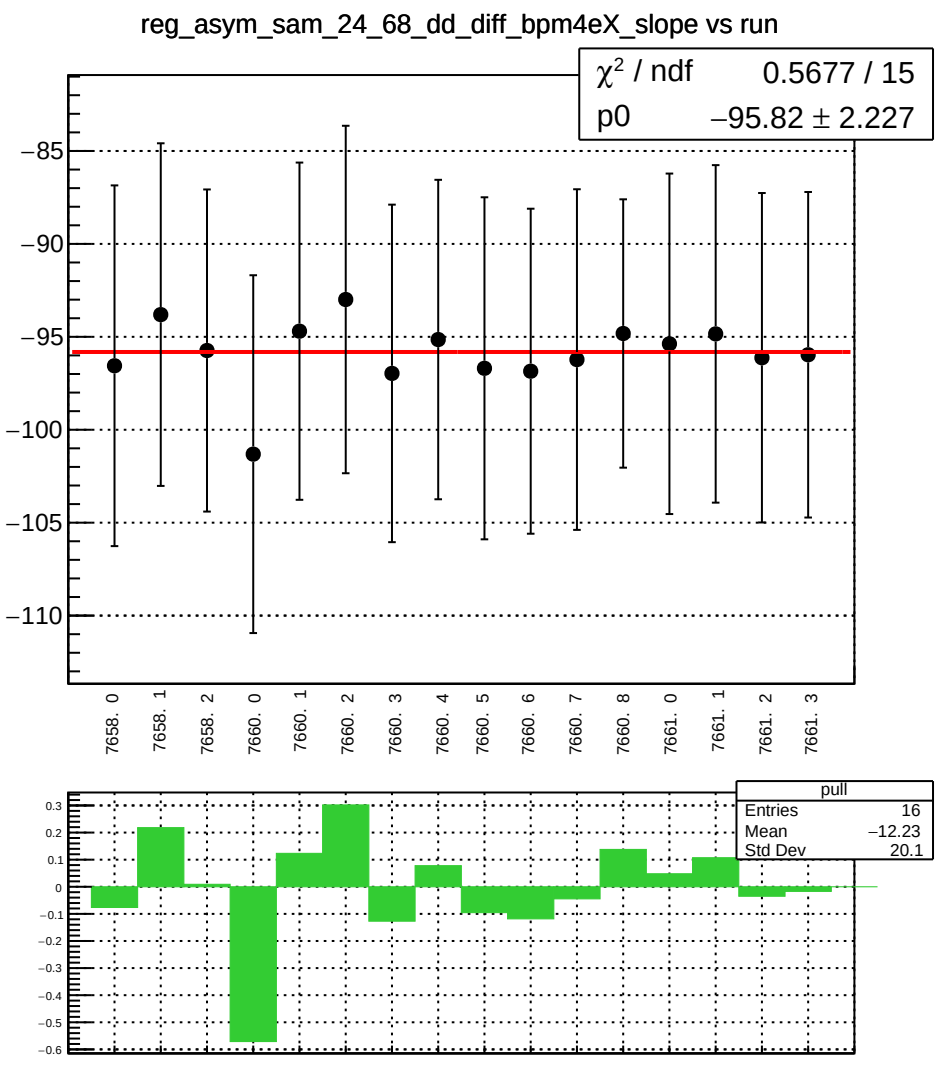

pull1D
Entries 16
Mean 0.001918
Std Dev 0.2934
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

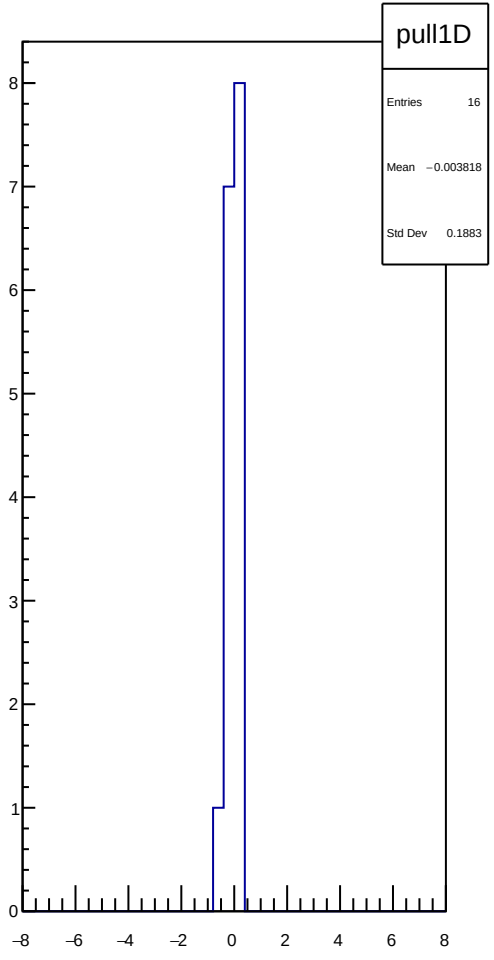

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 0.8215 / 15
p0 0.01149 ± 0.1309
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 29.04
Std Dev 22.54
0.6
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 16
Mean −0.009954
Std Dev 0.2264
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

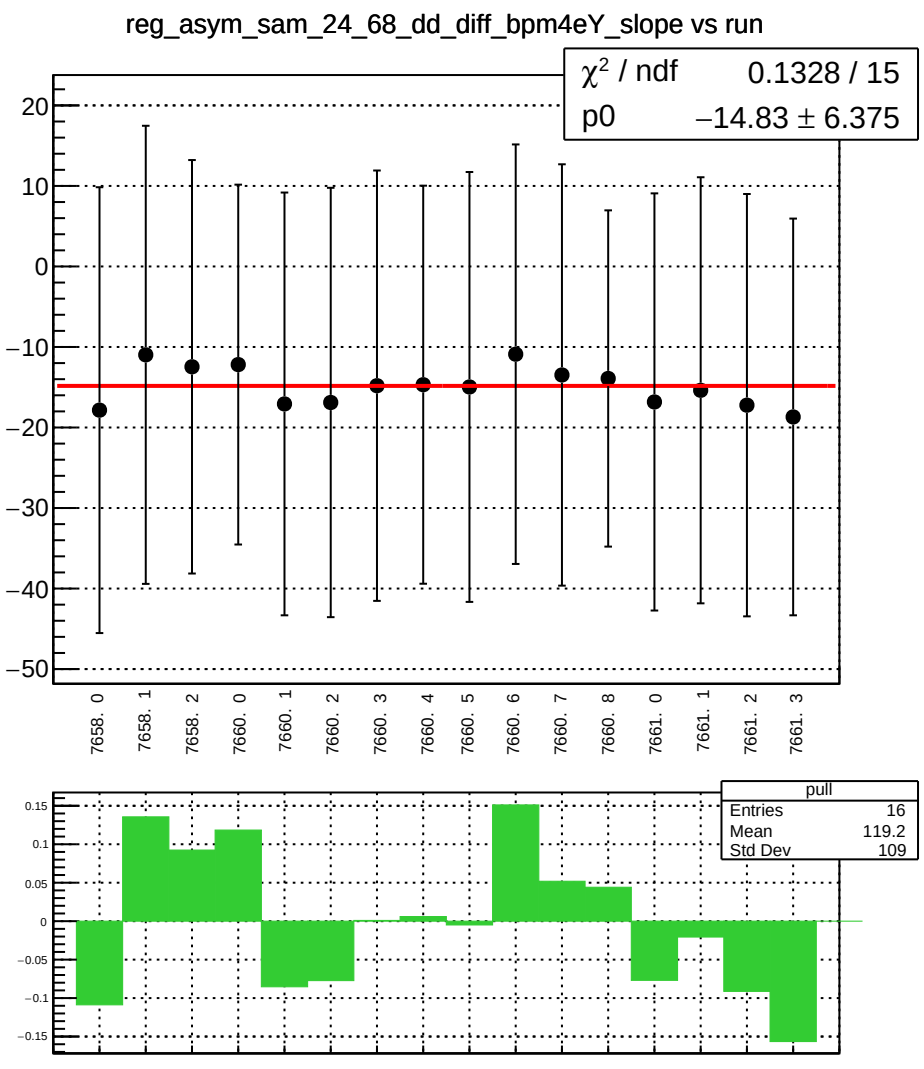

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 0.2571 / 15
p0 −11.68 ± 2.711
0
−5
−10
−15
−20
−25
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −784.3
Std Dev 790.9
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
−0.25
pull1D
Entries 16
Mean −0.0003592
Std Dev 0.1268
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

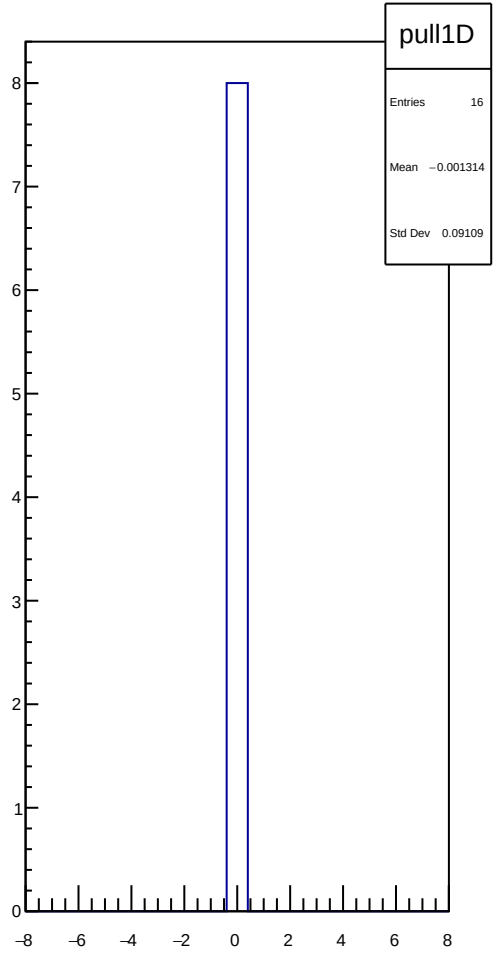

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.1291 / 15
p0 −1.235 ± 4.373
20
10
0
−10
−20
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 109
Std Dev 97.69
0.15
0.1
0.05
0
−0.05
−0.1
−0.15

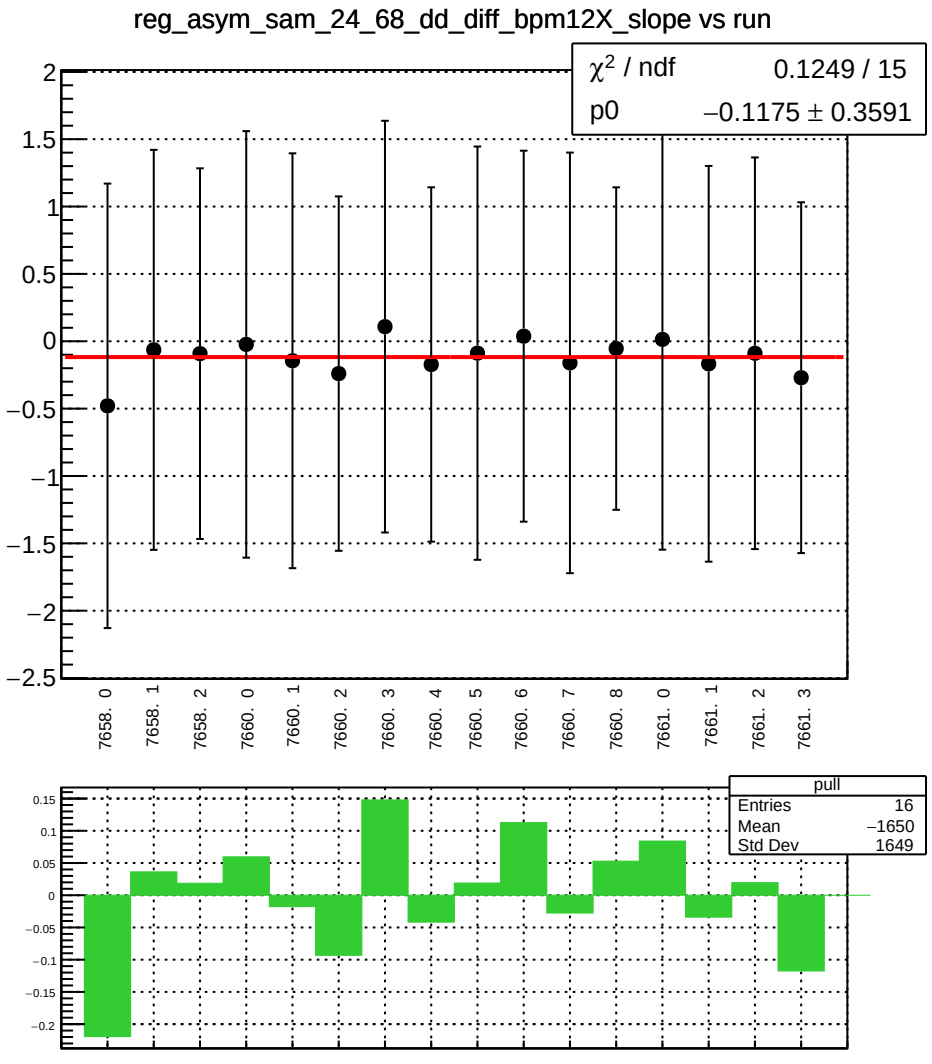

pull1D
Entries 16
Mean 0.00115
Std Dev 0.08982
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

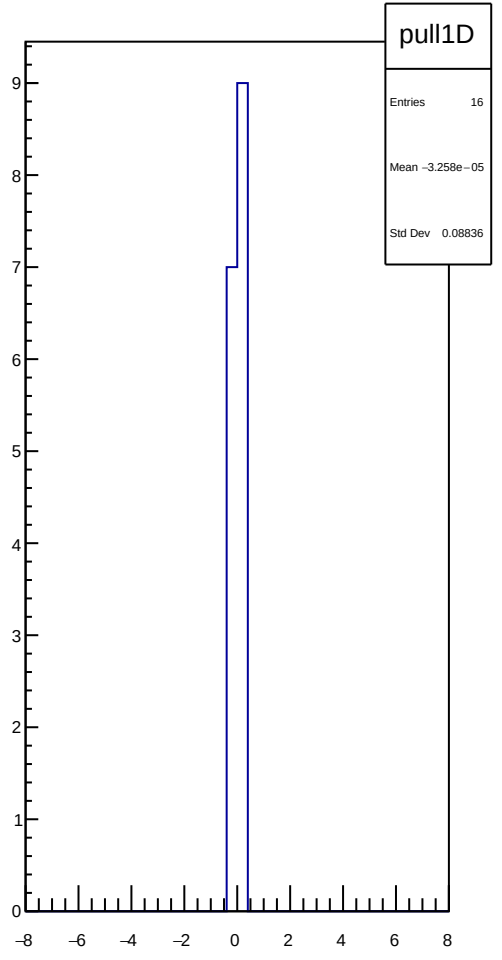

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.5677 / 15
p0 −95.82 ± 2.227
−85
−90
−95
−100
−105
−110
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −12.23
Std Dev 20.1
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6

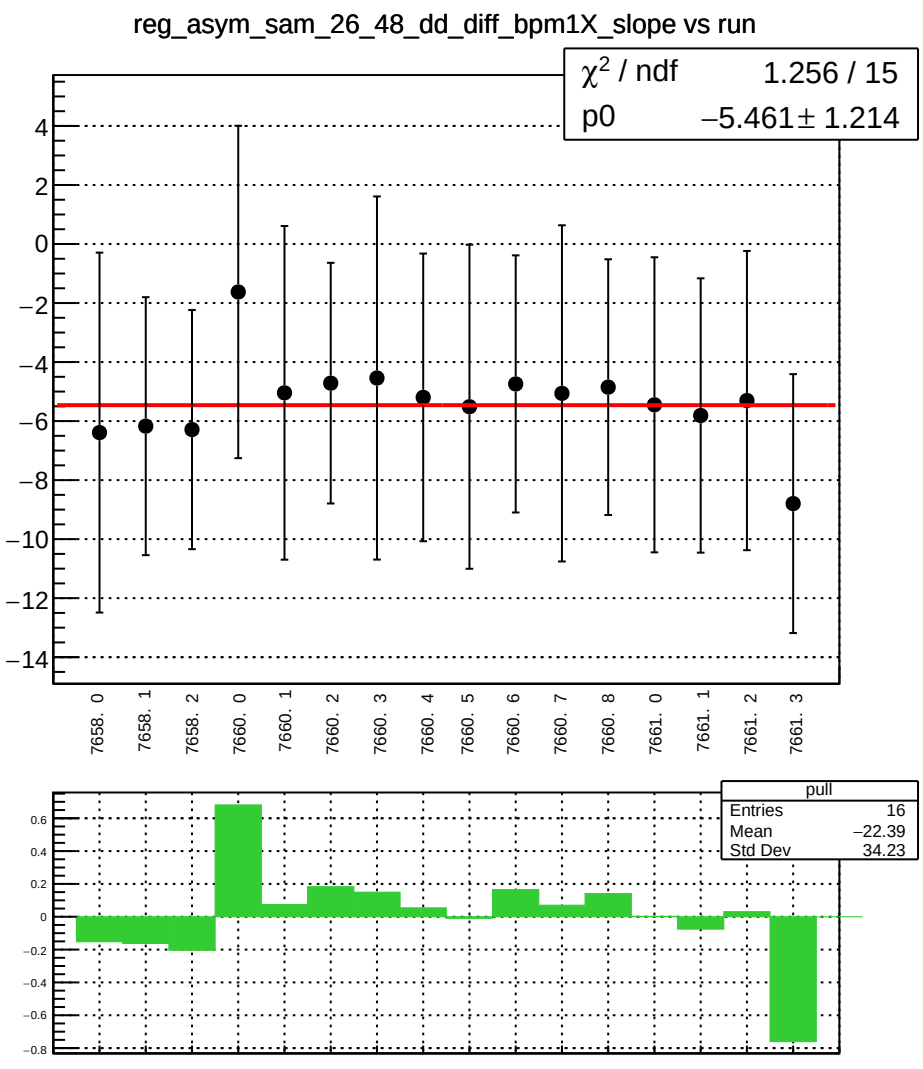

pull1D
Entries 16
Mean −0.003818
Std Dev 0.1883
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

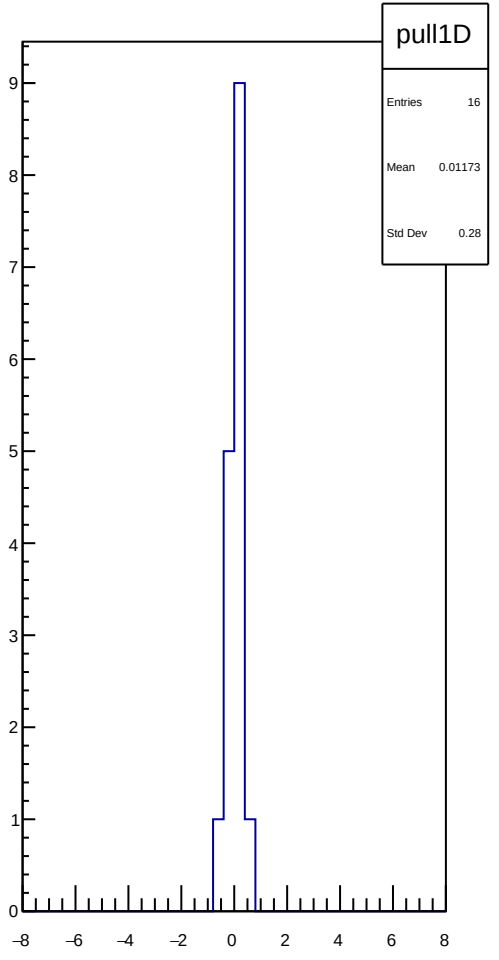

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.1328 / 15
p0 −14.83 ± 6.375
20
10
0
−10
−20
−30
−40
−50
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 119.2
Std Dev 109
0.15
0.1
0.05
0
−0.05
−0.1
−0.15

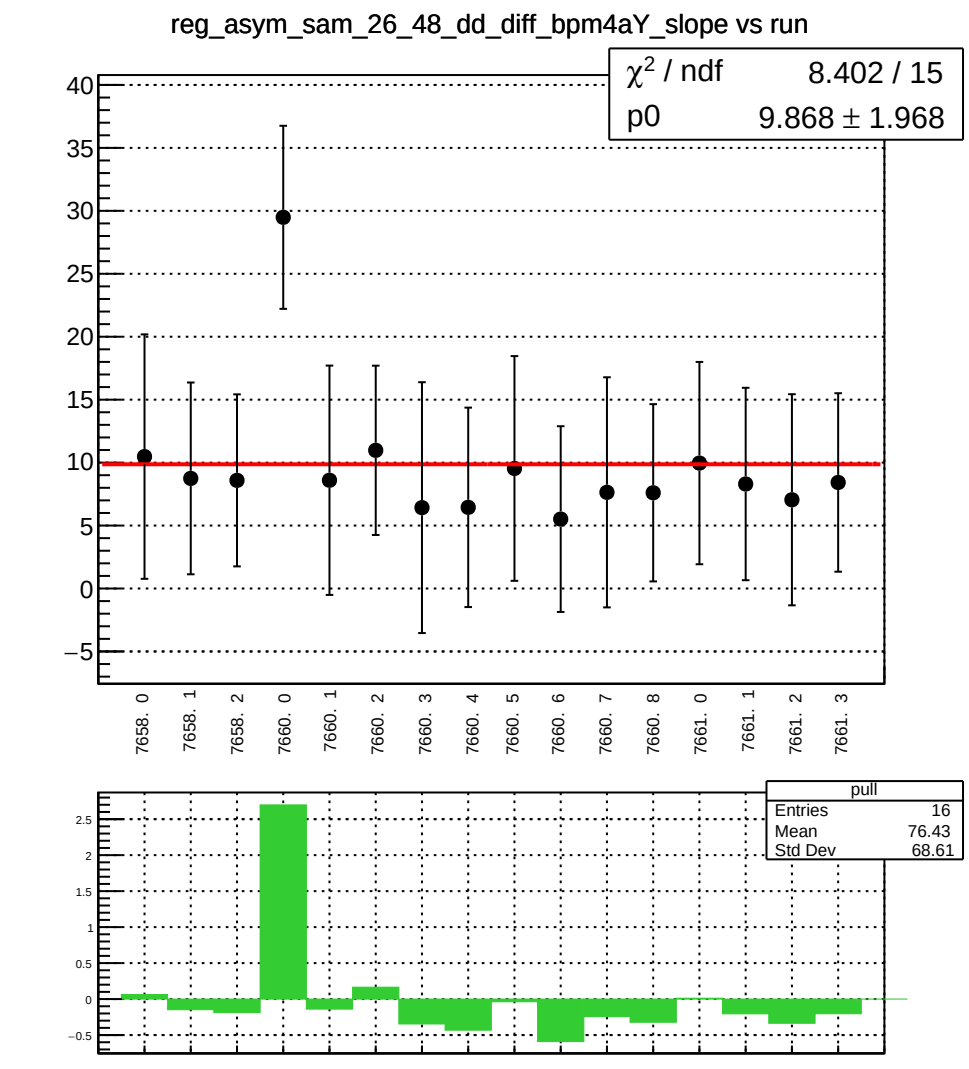

pull1D
Entries 16
Mean −0.001314
Std Dev 0.09109
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

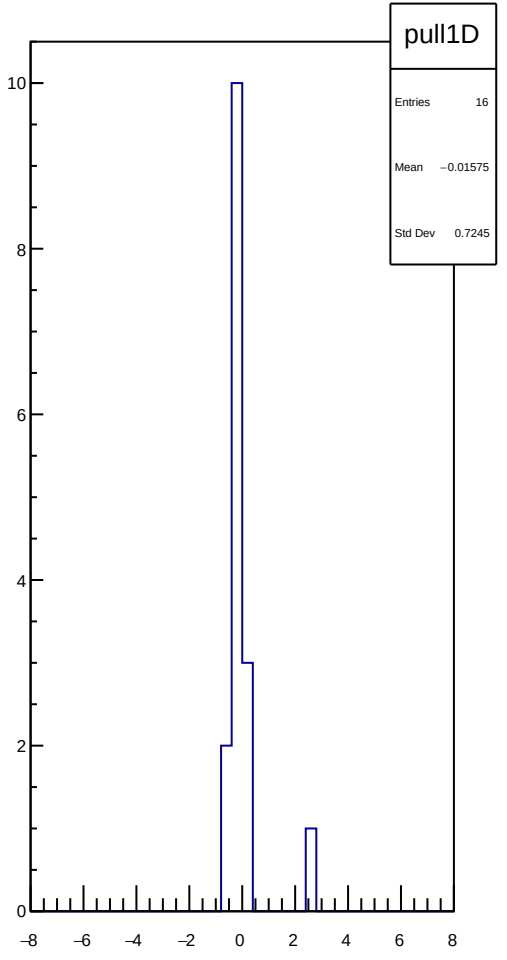

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 0.1249 / 15
p0 −0.1175 ± 0.3591
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −1650
Std Dev 1649
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2

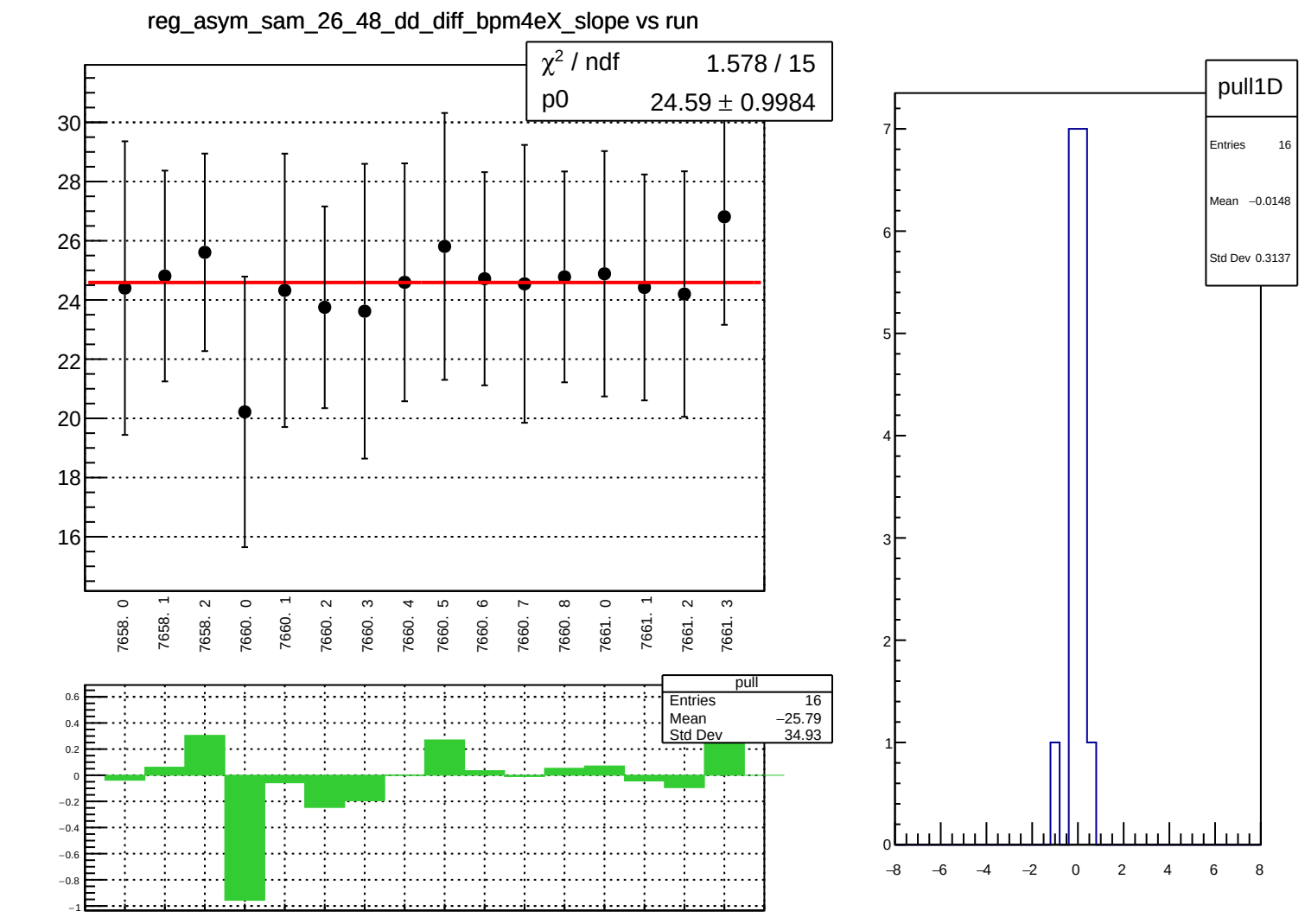

pull1D
Entries 16
Mean −3.258e−05
Std Dev 0.08836
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

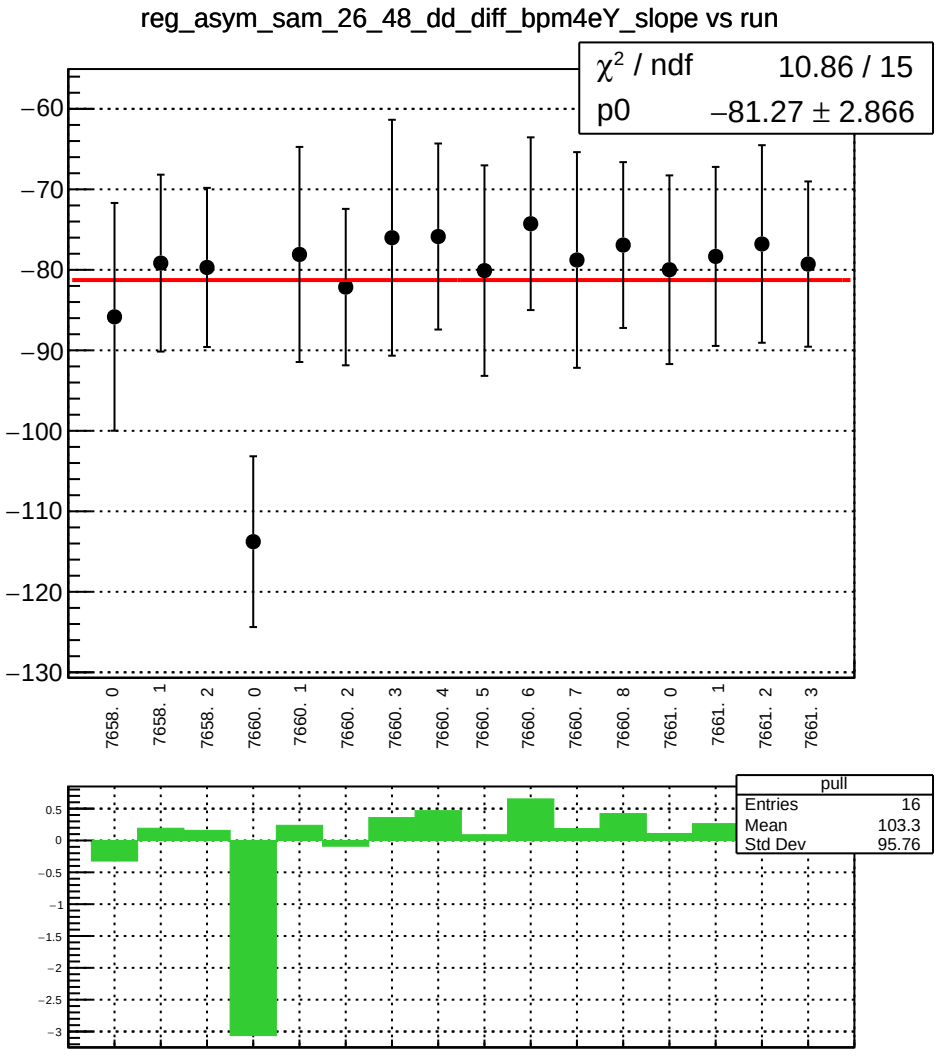

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 1.256 / 15
p0 −5.461± 1.214
4
2
0
−2
−4
−6
−8
−10
−12
−14
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −22.39
Std Dev 34.23
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

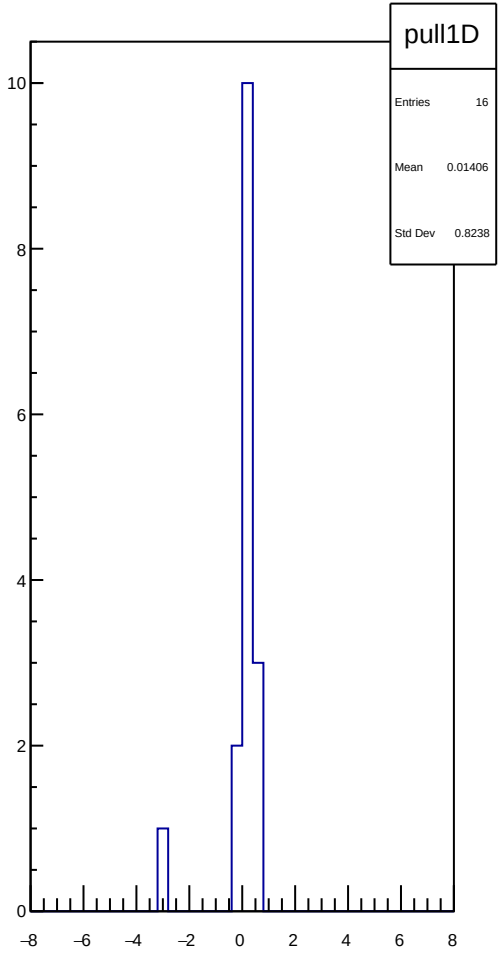

pull1D
Entries 16
Mean 0.01173
Std Dev 0.28
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

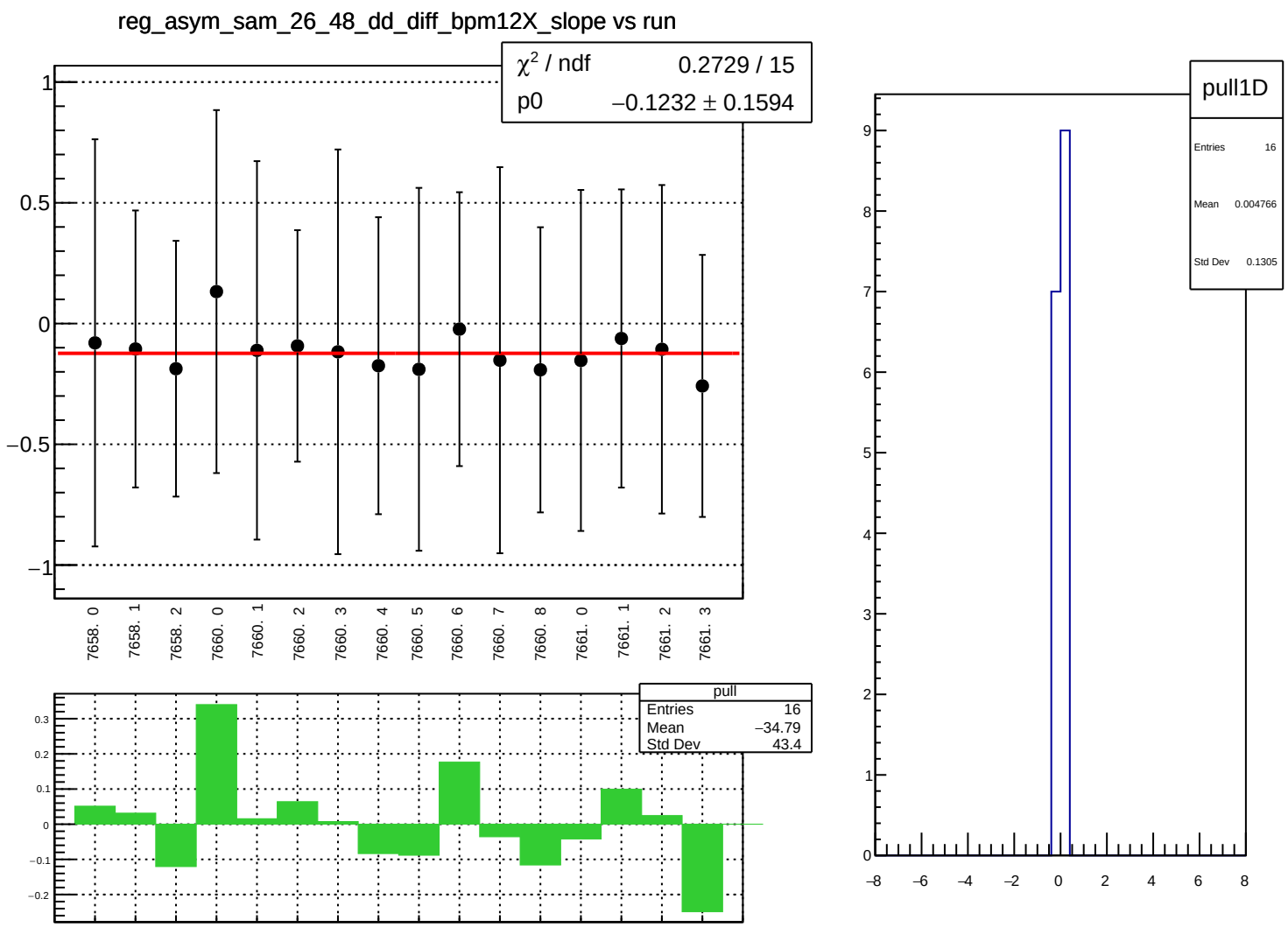

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.402 / 15
p0 9.868 ± 1.968
40
35
30
25
20
15
10
5
0
−5
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 76.43
Std Dev 68.61
2.5
2
1.5
1
0.5
0
−0.5

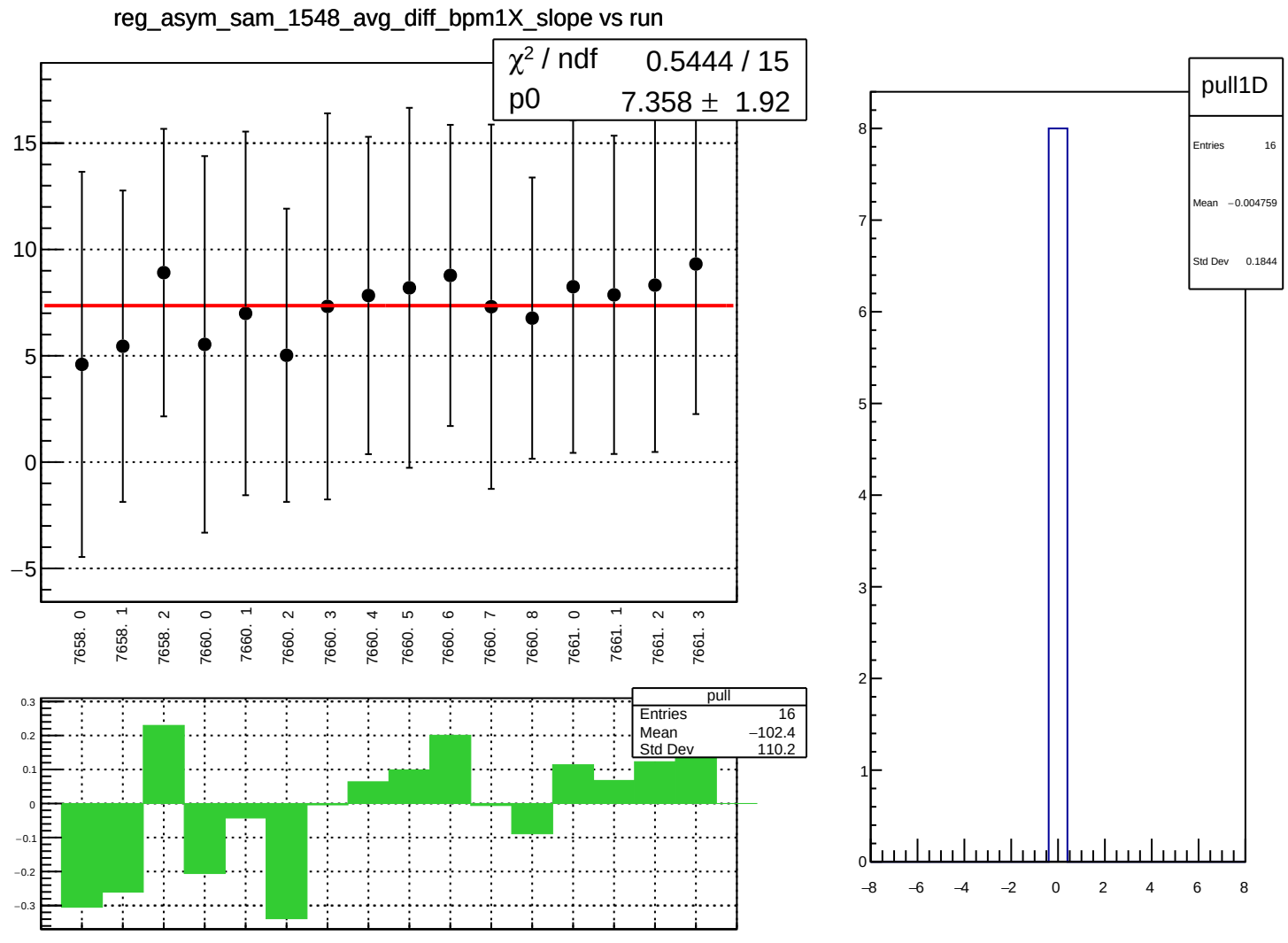

pull1D
Entries 16
Mean −0.01575
Std Dev 0.7245
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

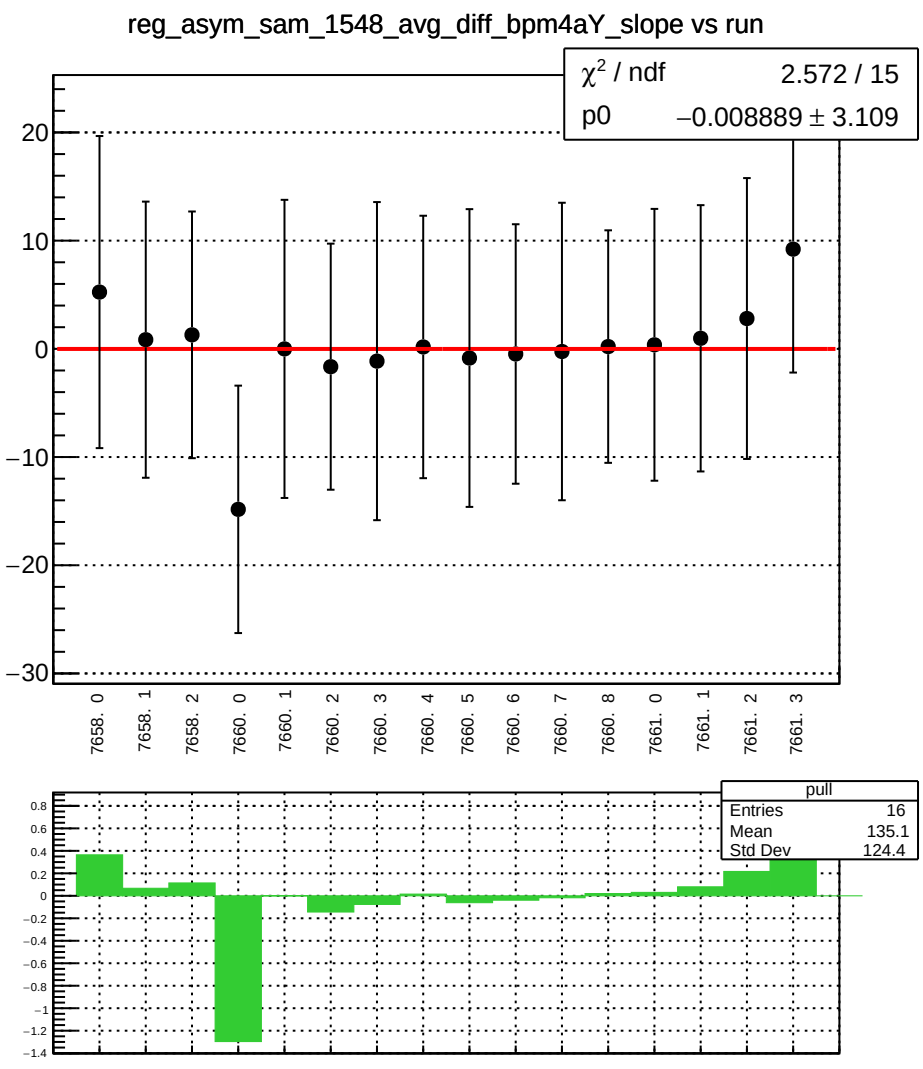

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.578 / 15
p0 24.59 ± 0.9984
30
28
26
24
22
20
18
16
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −25.79
Std Dev 34.93
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 16
Mean −0.0148
Std Dev 0.3137
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

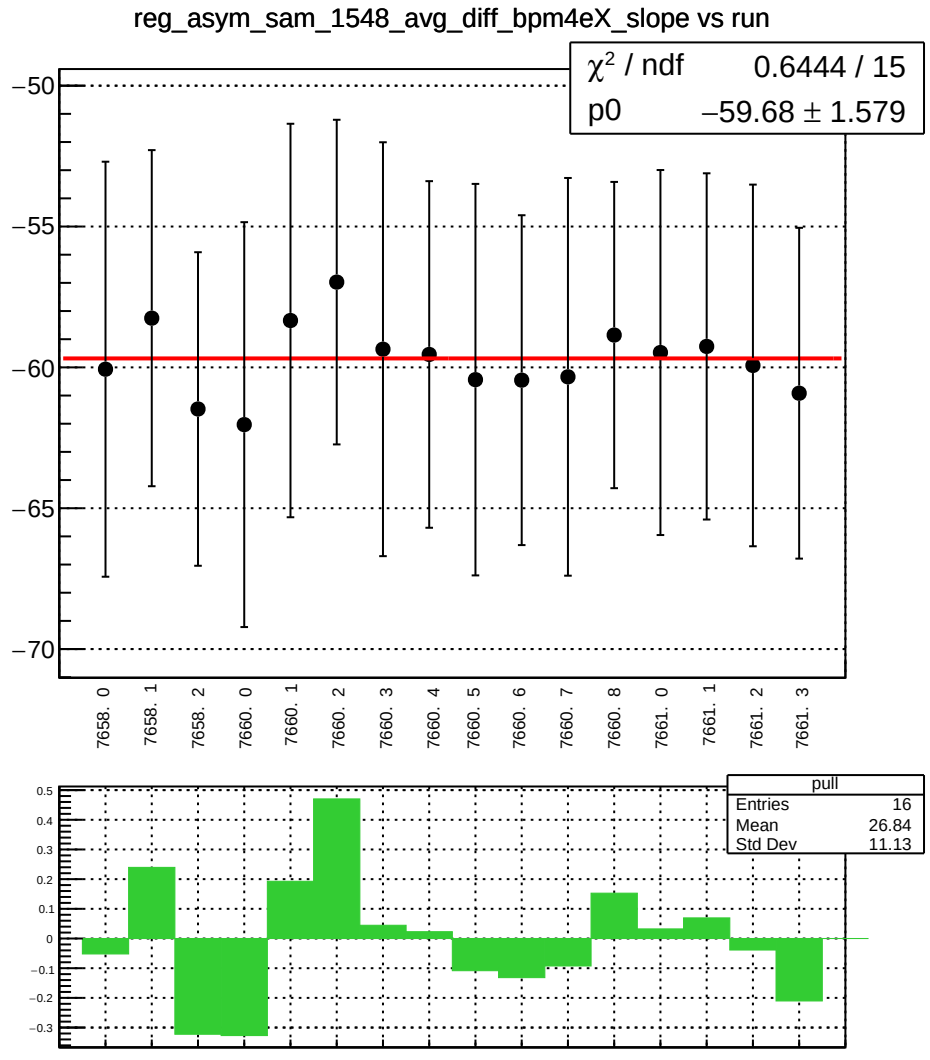

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 10.86 / 15
p0 −81.27 ± 2.866
−60
−70
−80
−90
−100
−110
−120
−130
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 103.3
Std Dev 95.76
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

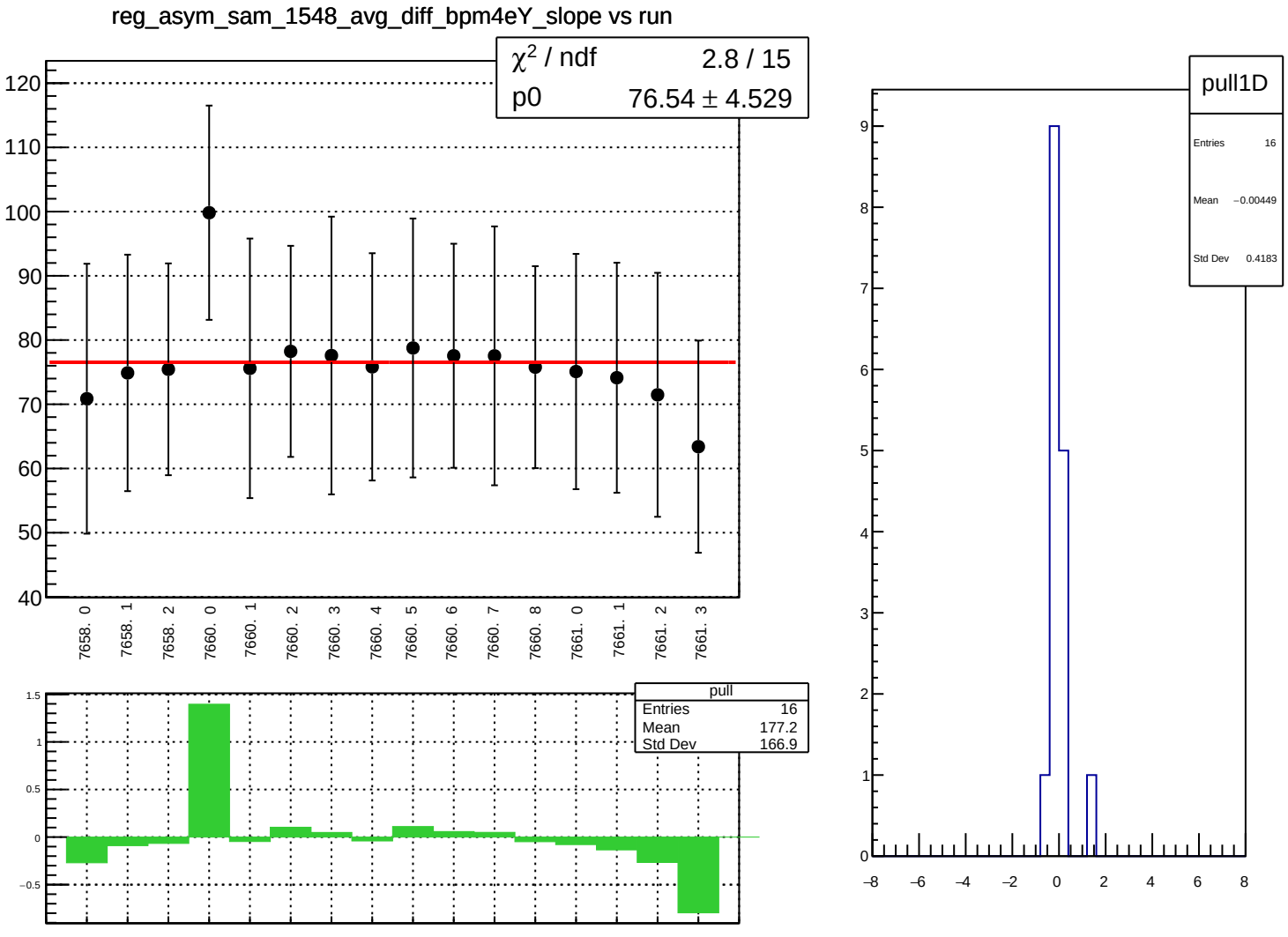

pull1D
Entries 16
Mean 0.01406
Std Dev 0.8238
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

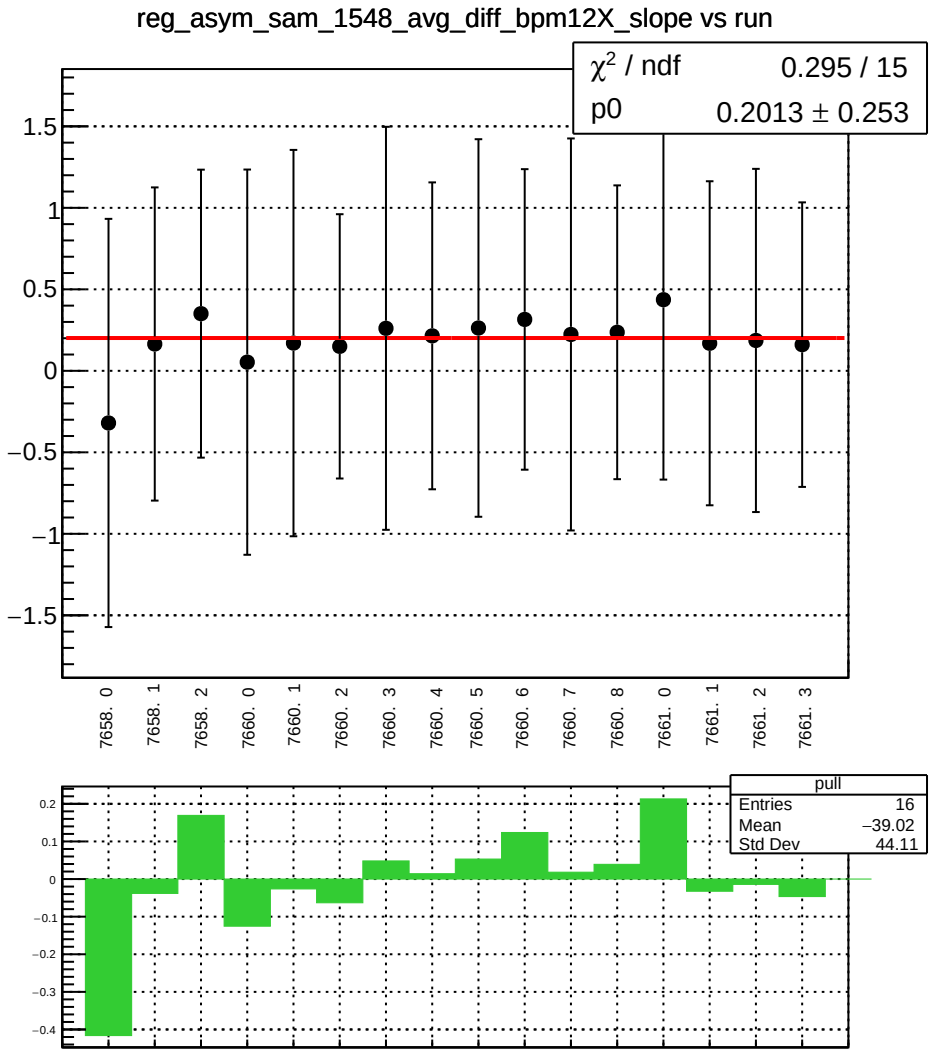

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 0.2729 / 15
p0 −0.1232 ± 0.1594
1
0.5
0
−0.5
−1
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −34.79
Std Dev 43.4
0.3
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 16
Mean 0.004766
Std Dev 0.1305
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

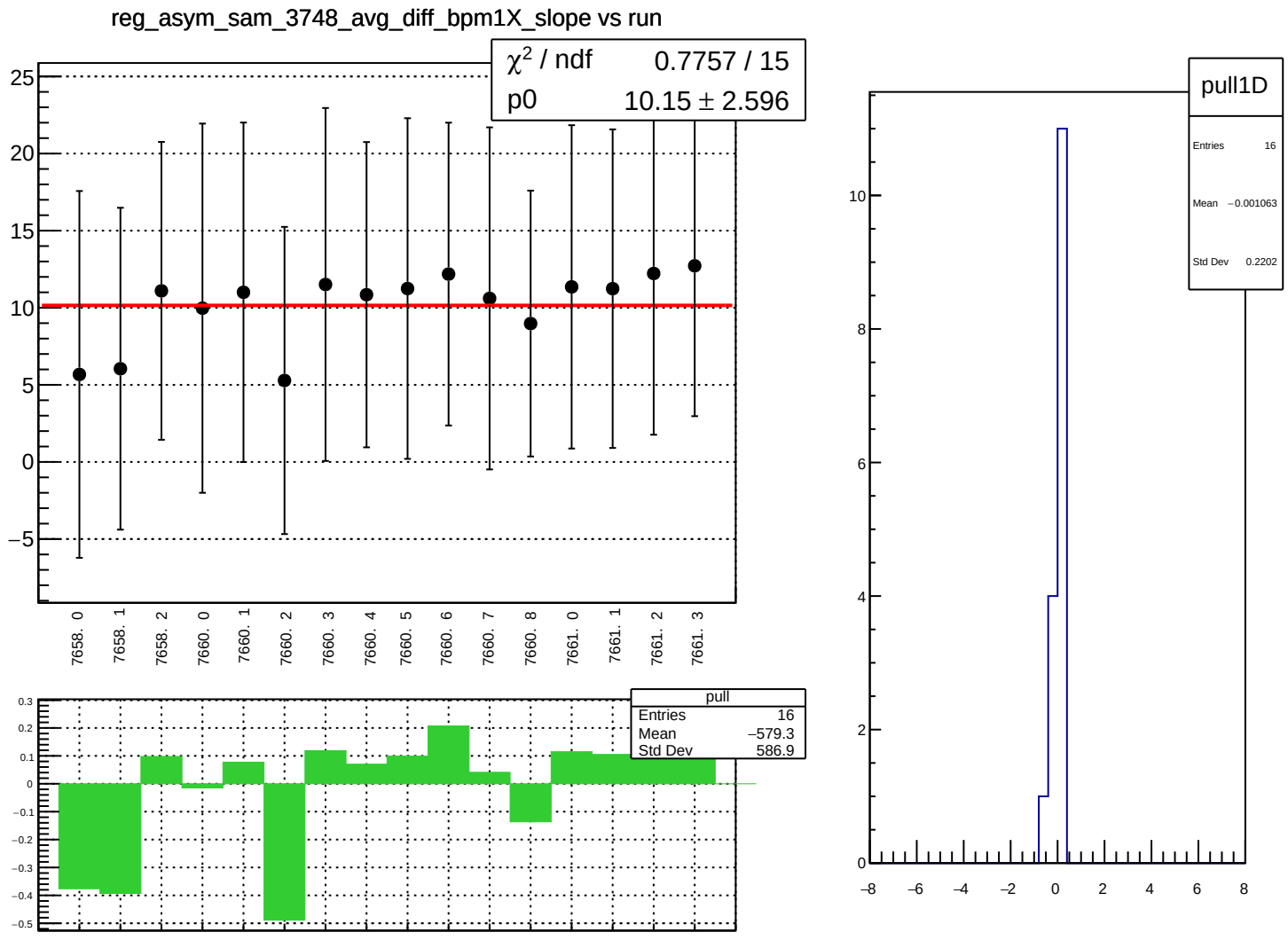

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 0.5444 / 15
p0 7.358 ± 1.92
15
10
5
0
−5
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −102.4
Std Dev 110.2
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 16
Mean −0.004759
Std Dev 0.1844
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

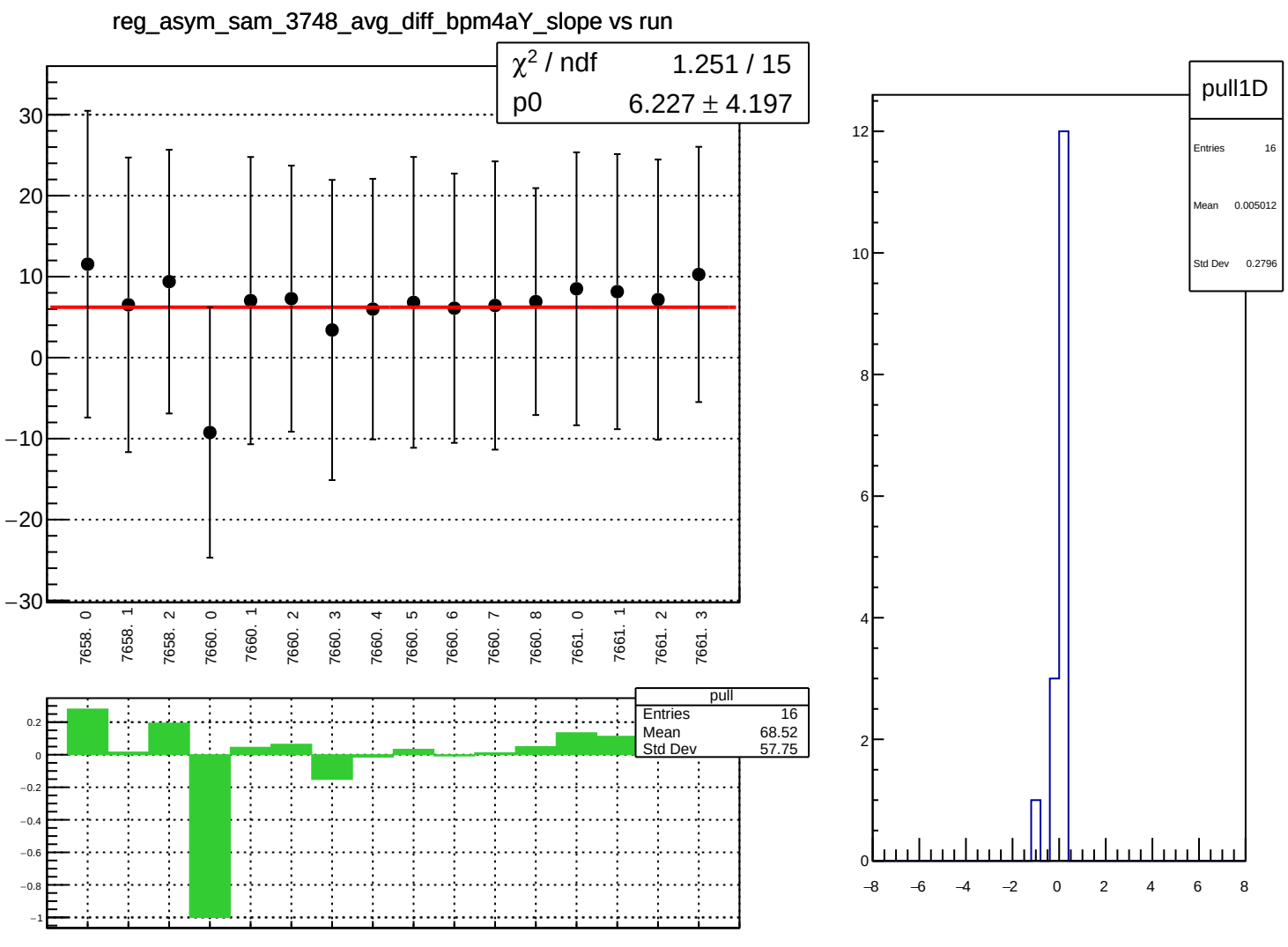

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.572 / 15
p0 −0.008889 ± 3.109
20
10
0
−10
−20
−30
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 135.1
Std Dev 124.4
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4
pull1D
Entries 16
Mean 0.005158
Std Dev 0.4009
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

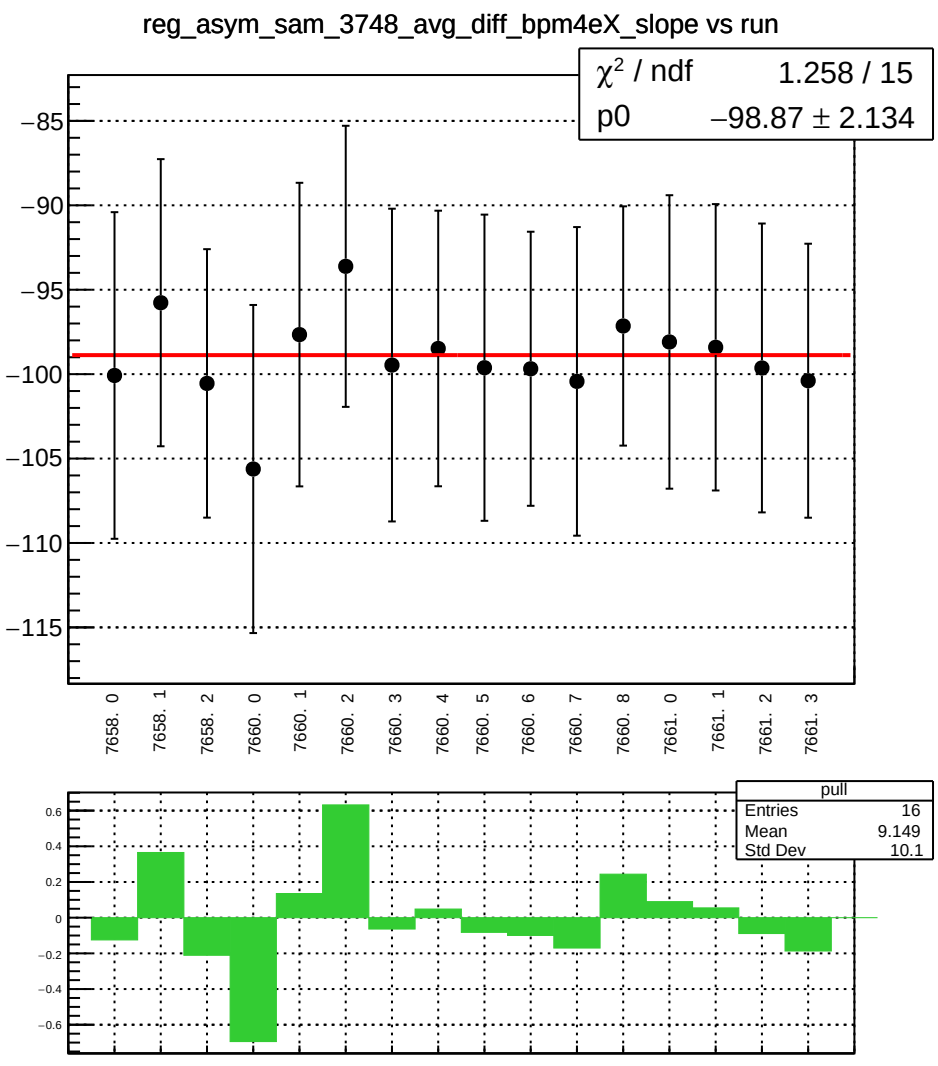

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 0.6444 / 15
p0 −59.68 ± 1.579
−50
−55
−60
−65
−70
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 26.84
Std Dev 11.13
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 16
Mean −0.003654
Std Dev 0.2007
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

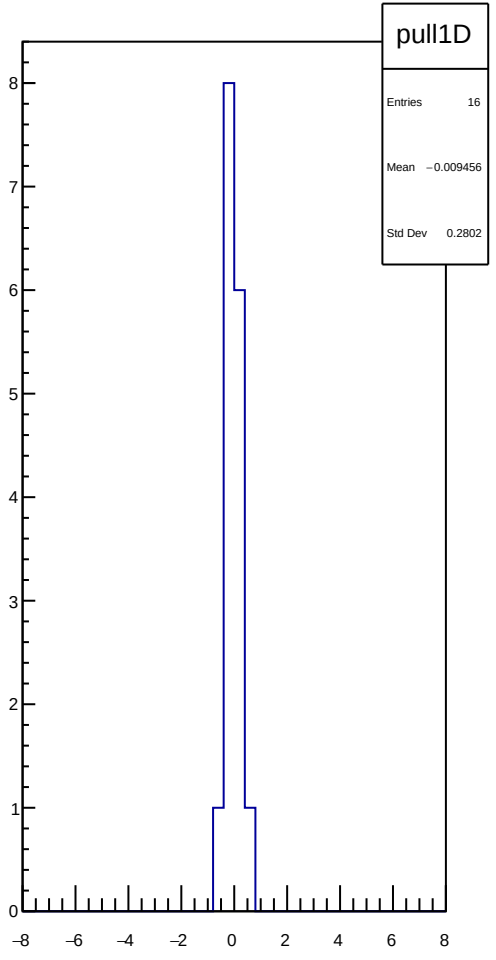

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.8 / 15
p0 76.54 ± 4.529
120
110
100
90
80
70
60
50
40
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 177.2
Std Dev 166.9
1.5
1
0.5
0
−0.5
pull1D
Entries 16
Mean −0.00449
Std Dev 0.4183
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

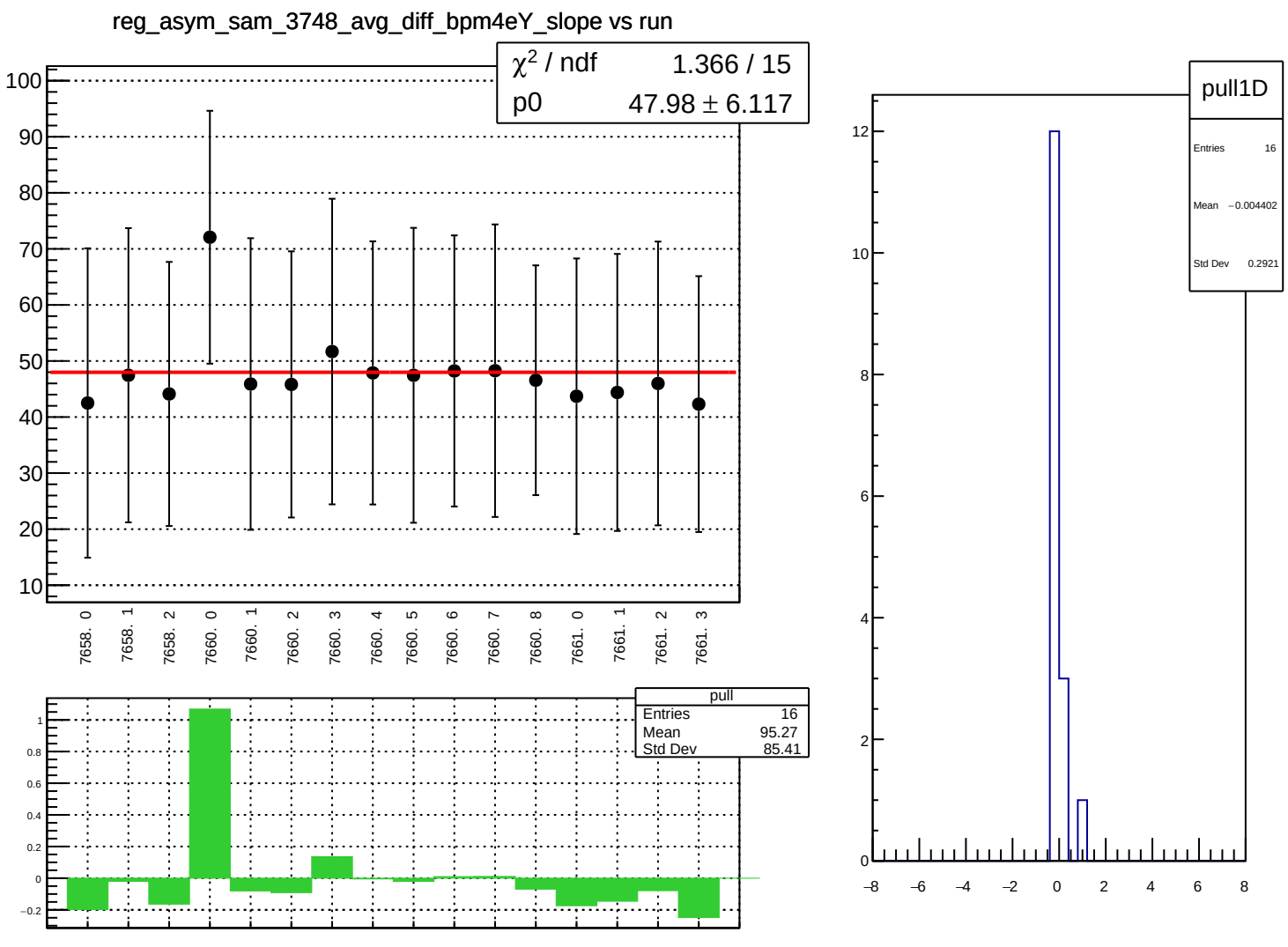

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 0.295 / 15
p0 0.2013 ± 0.253
1.5
1
0.5
0
−0.5
−1
−1.5
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −39.02
Std Dev 44.11
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 16
Mean −0.005192
Std Dev 0.1357
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

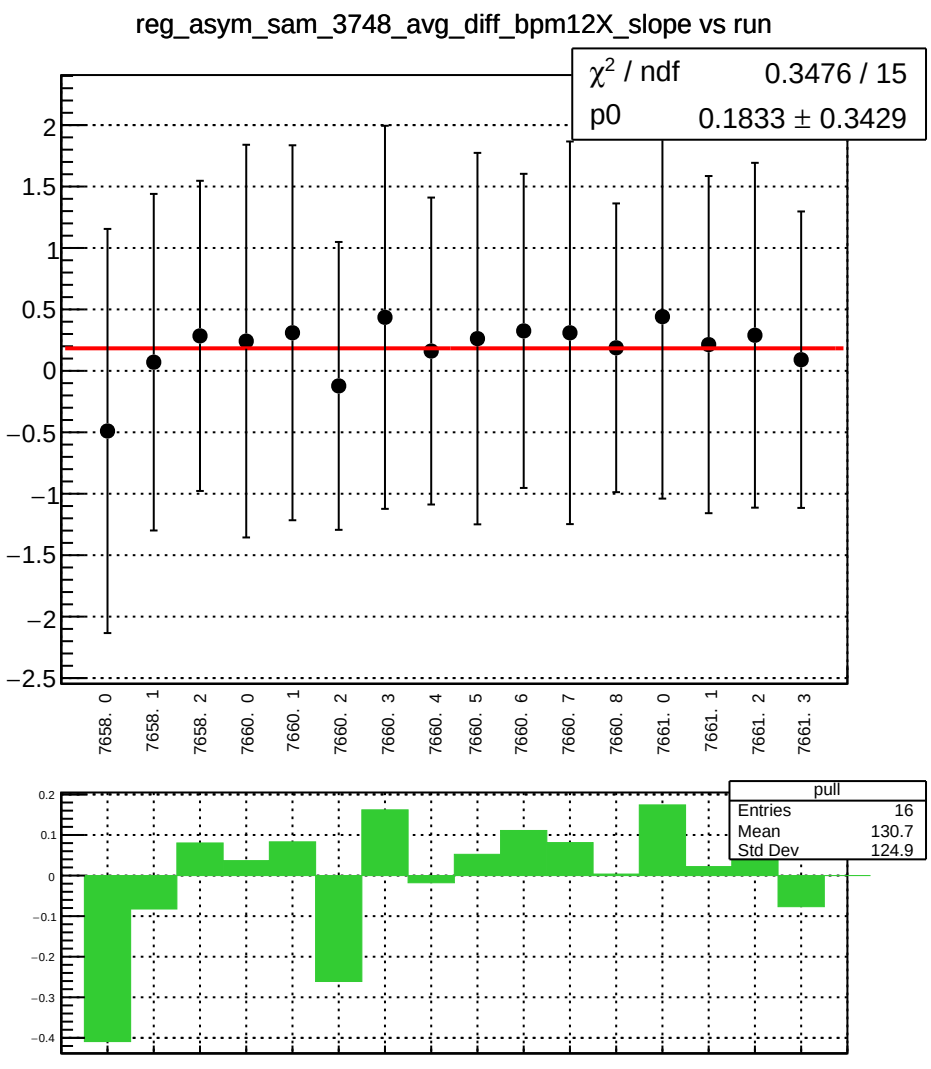

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 0.7757 / 15
p0 10.15 ± 2.596
25
20
15
10
5
0
−5
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −579.3
Std Dev 586.9
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
pull1D
Entries 16
Mean −0.001063
Std Dev 0.2202
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

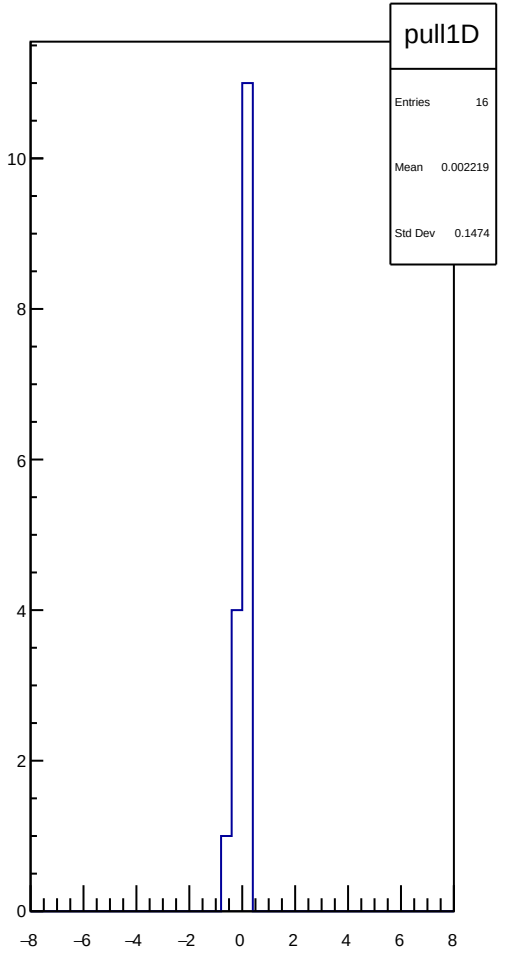

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.251 / 15
p0 6.227 ± 4.197
30
20
10
0
−10
−20
−30
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 68.52
Std Dev 57.75
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 16
Mean 0.005012
Std Dev 0.2796
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

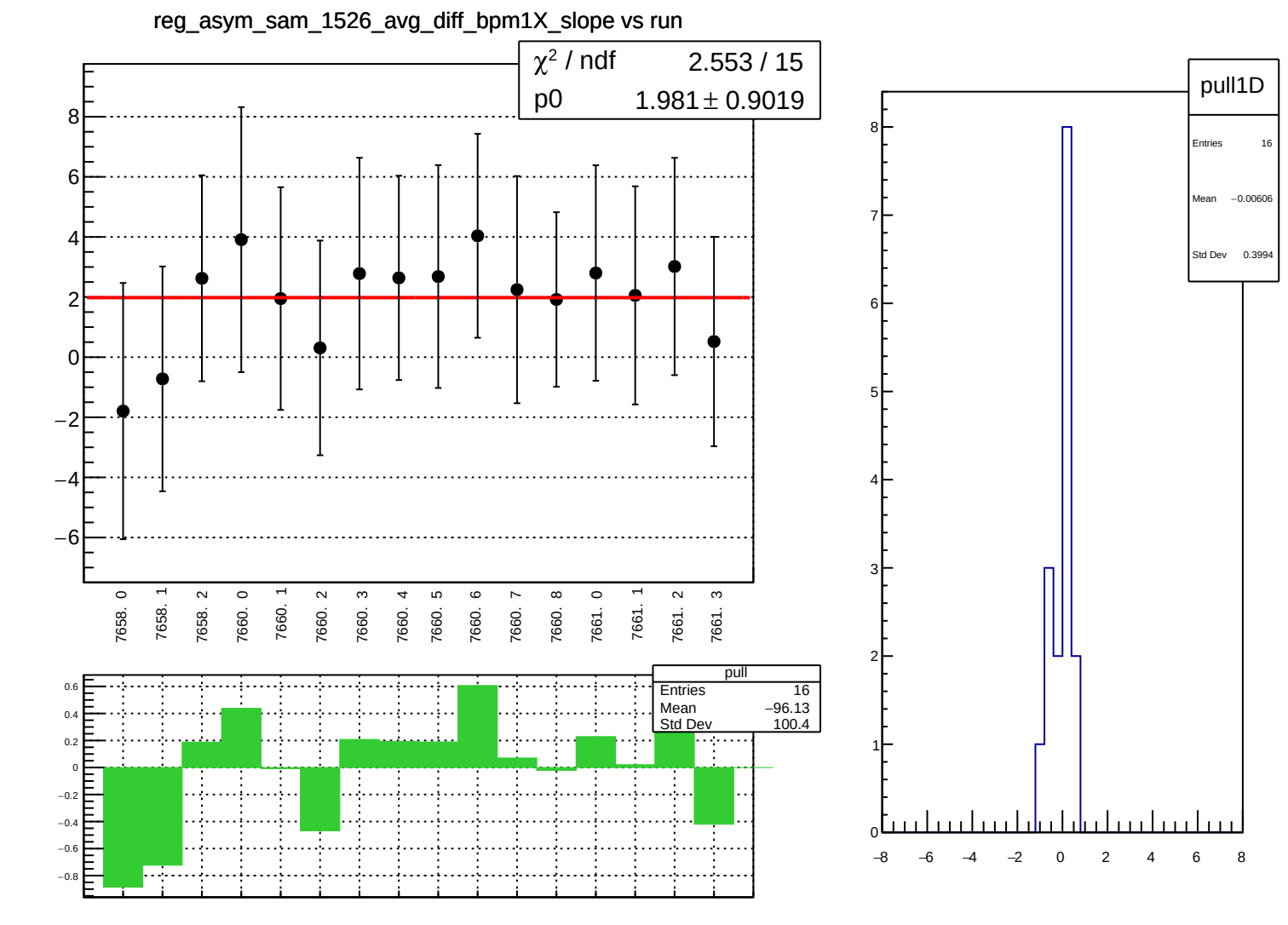

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.258 / 15
p0 −98.87 ± 2.134
−85
−90
−95
−100
−105
−110
−115
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 9.149
Std Dev 10.1
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

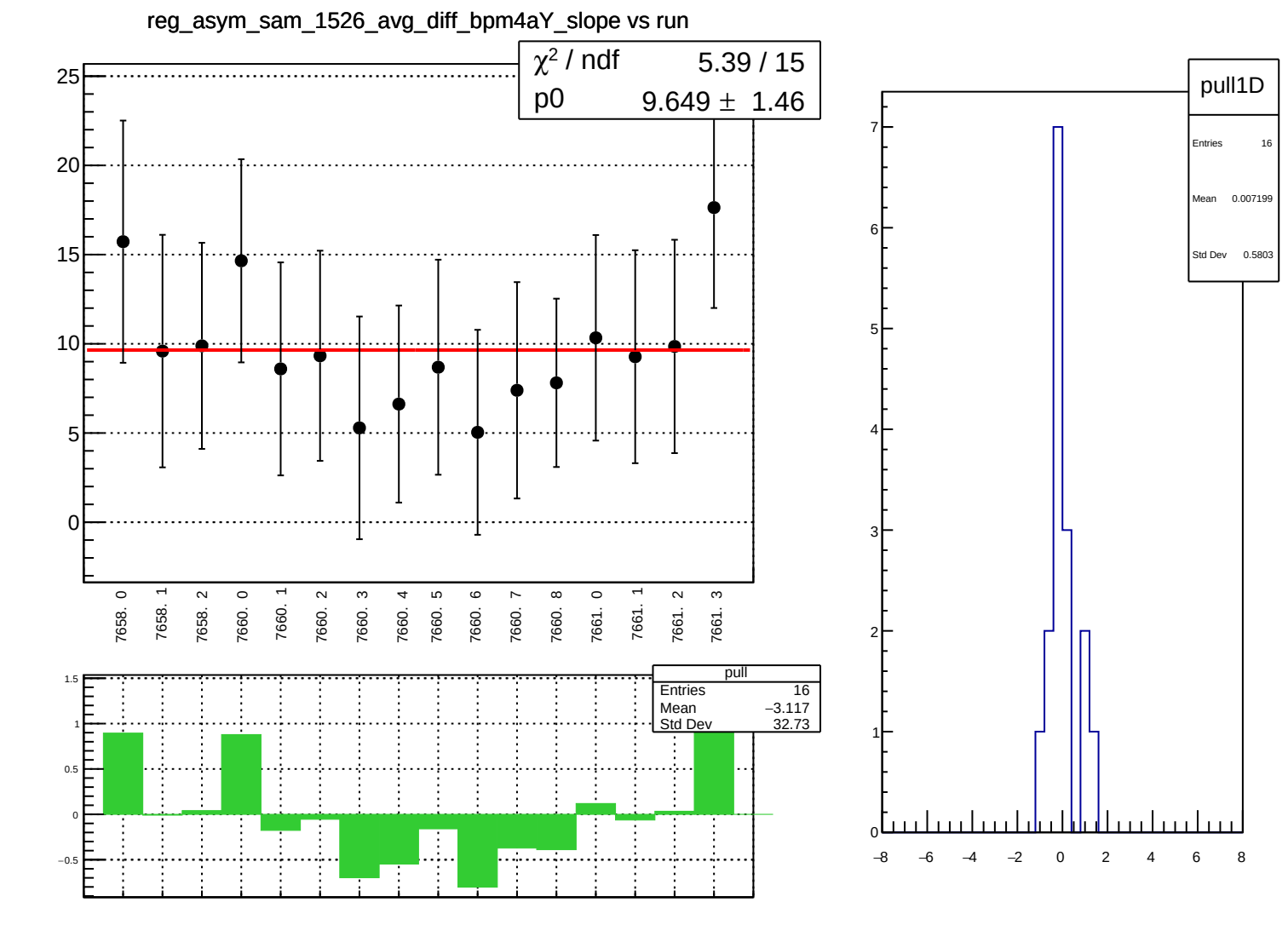

pull1D
Entries 16
Mean −0.009456
Std Dev 0.2802
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

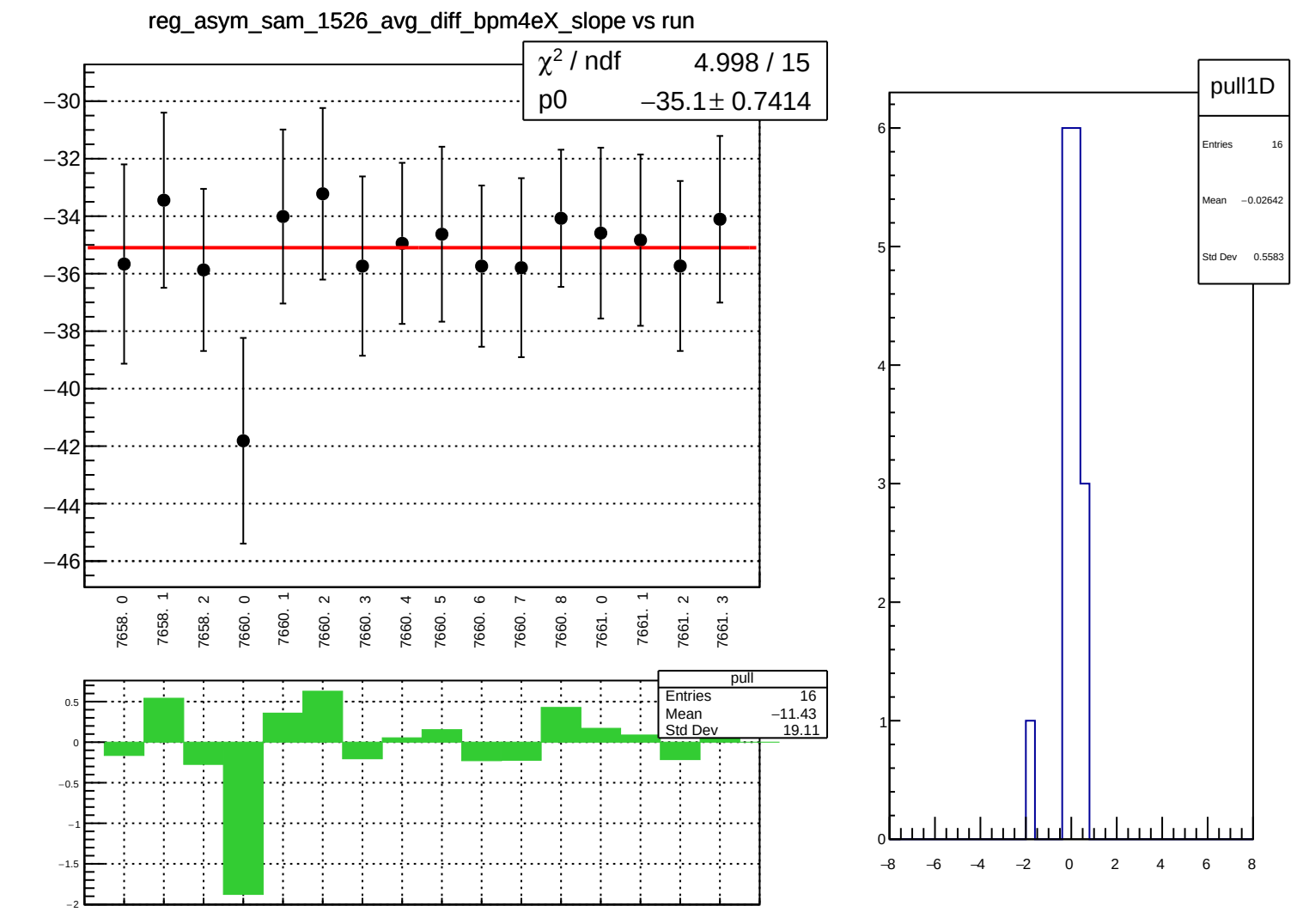

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.366 / 15
p0 47.98 ± 6.117
100
90
80
70
60
50
40
30
20
10
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 95.27
Std Dev 85.41
1
0.8
0.6
0.4
0.2
0
−0.2
pull1D
Entries 16
Mean −0.004402
Std Dev 0.2921
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

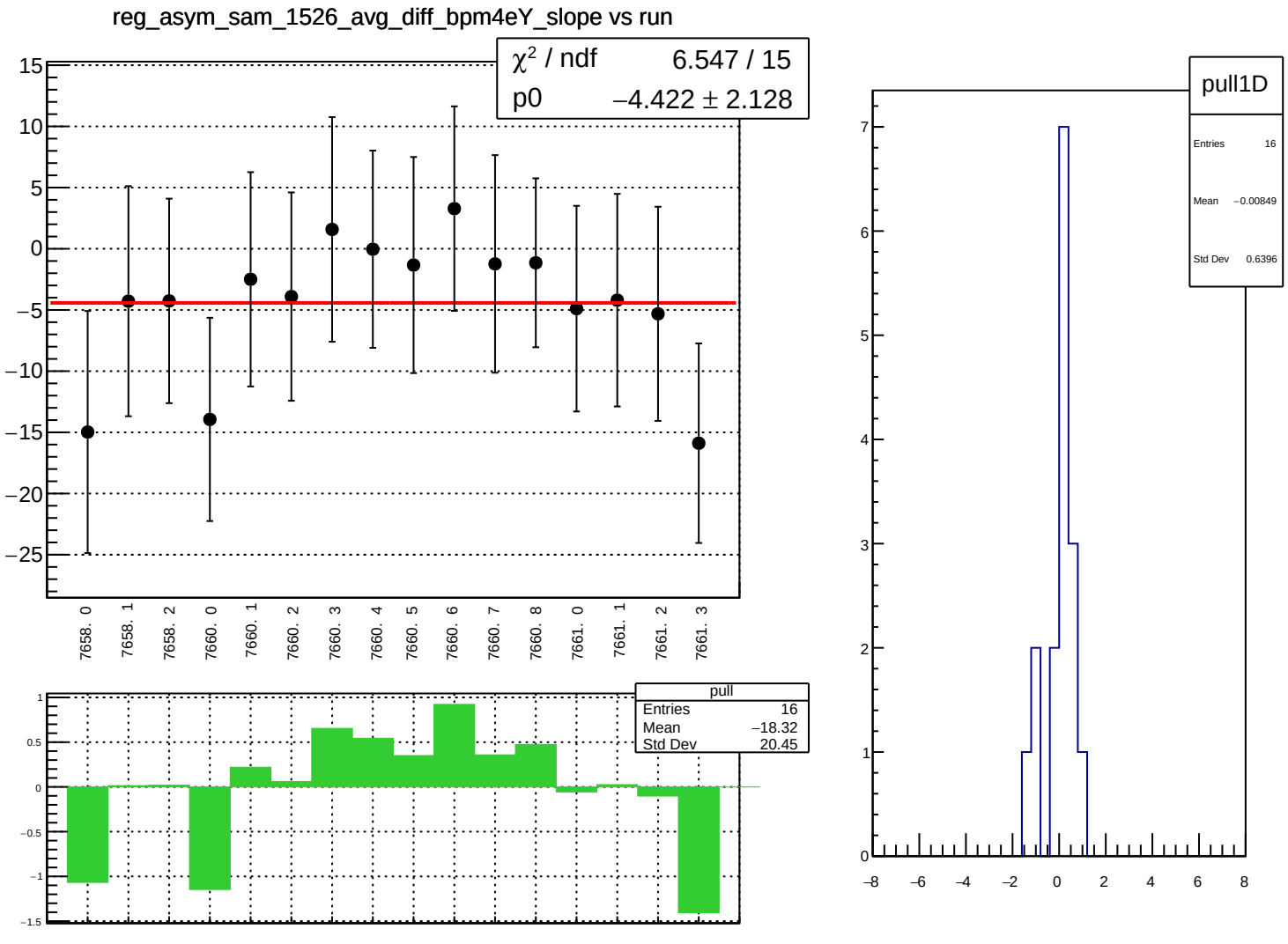

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 0.3476 / 15
p0 0.1833 ± 0.3429
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 130.7
Std Dev 124.9
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

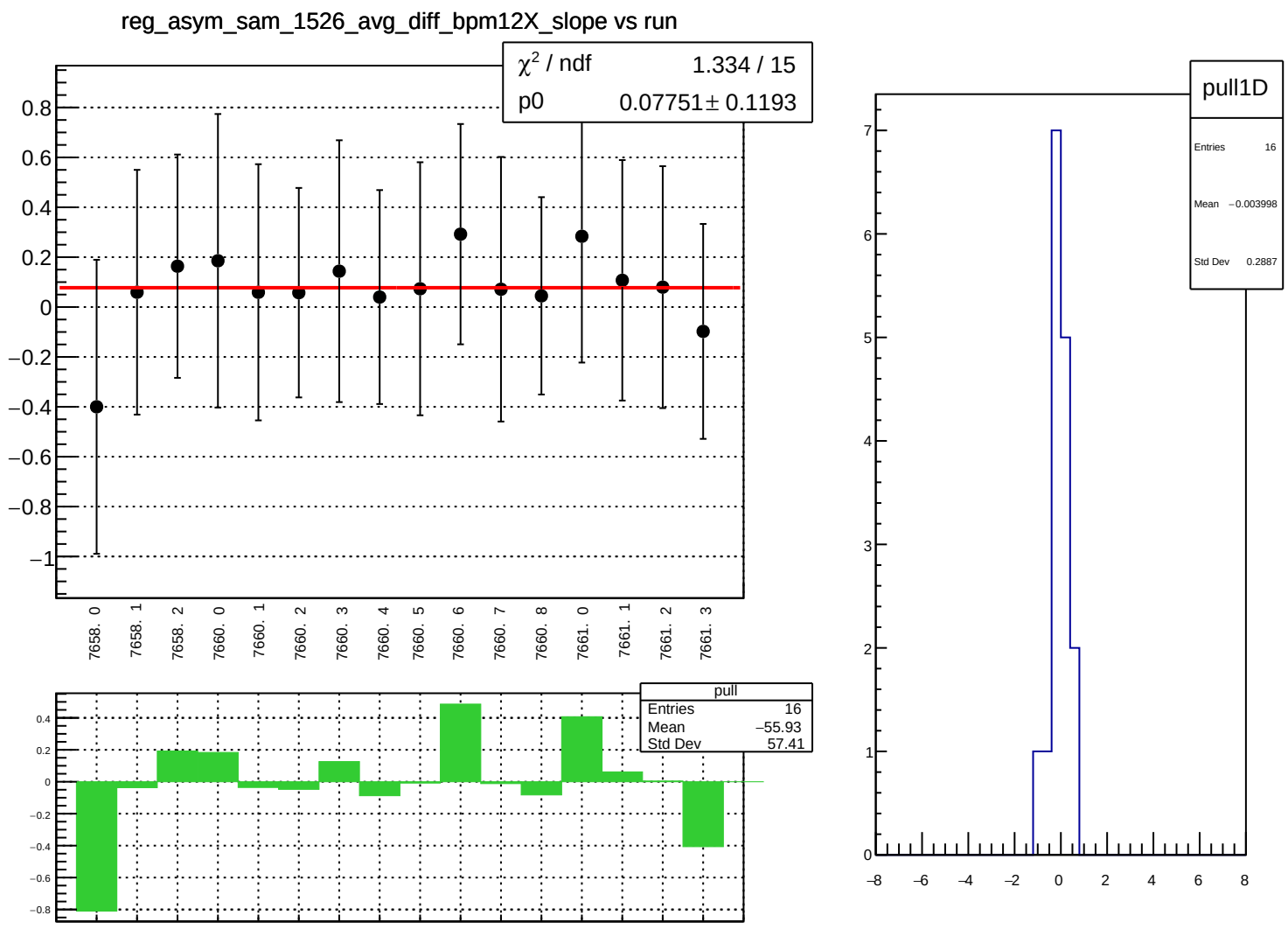

pull1D
Entries 16
Mean 0.002219
Std Dev 0.1474
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

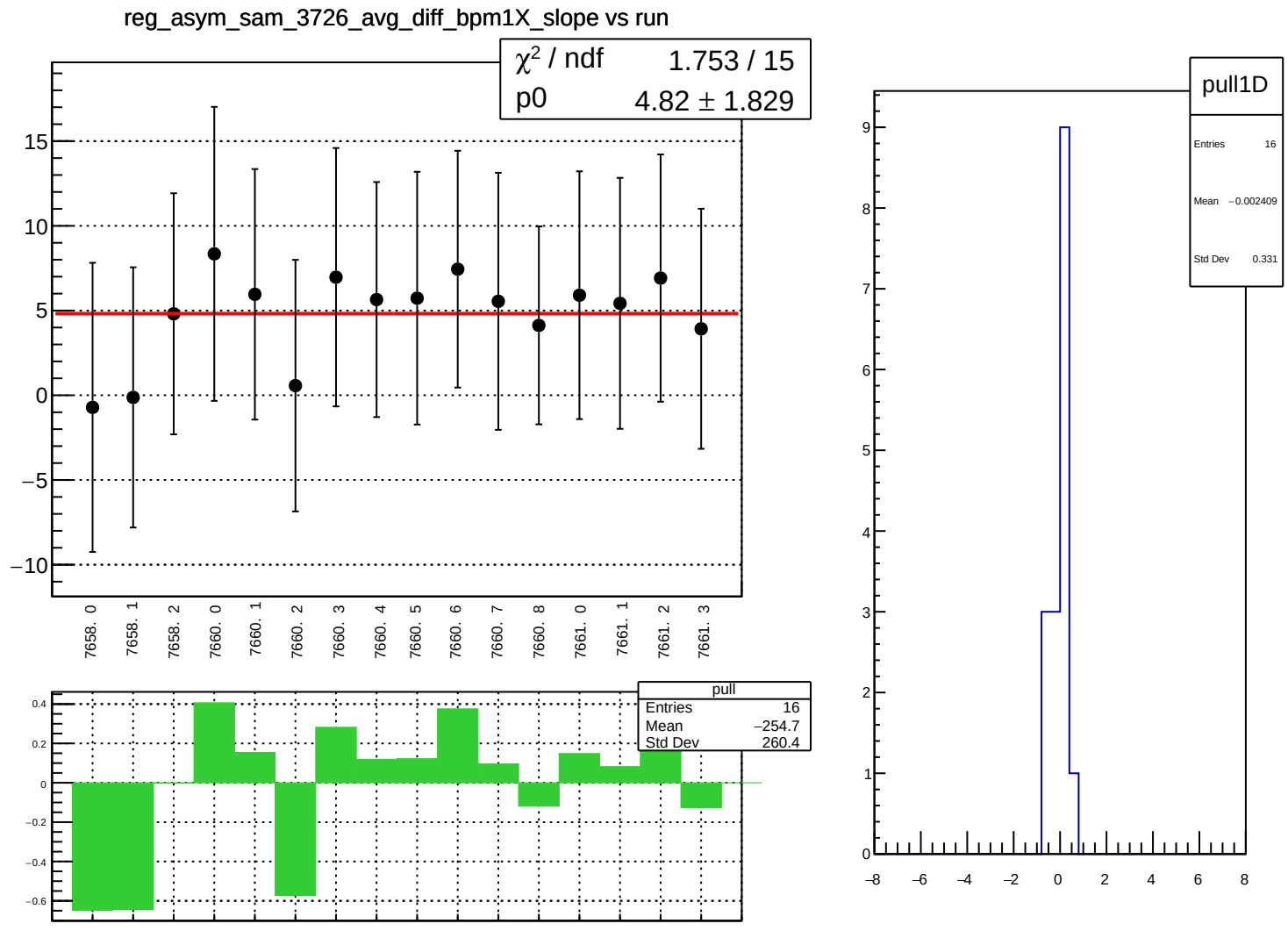

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 2.553 / 15
p0 1.981 ± 0.9019
8
6
4
2
0
−2
−4
−6
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −96.13
Std Dev 100.4
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 16
Mean −0.00606
Std Dev 0.3994
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

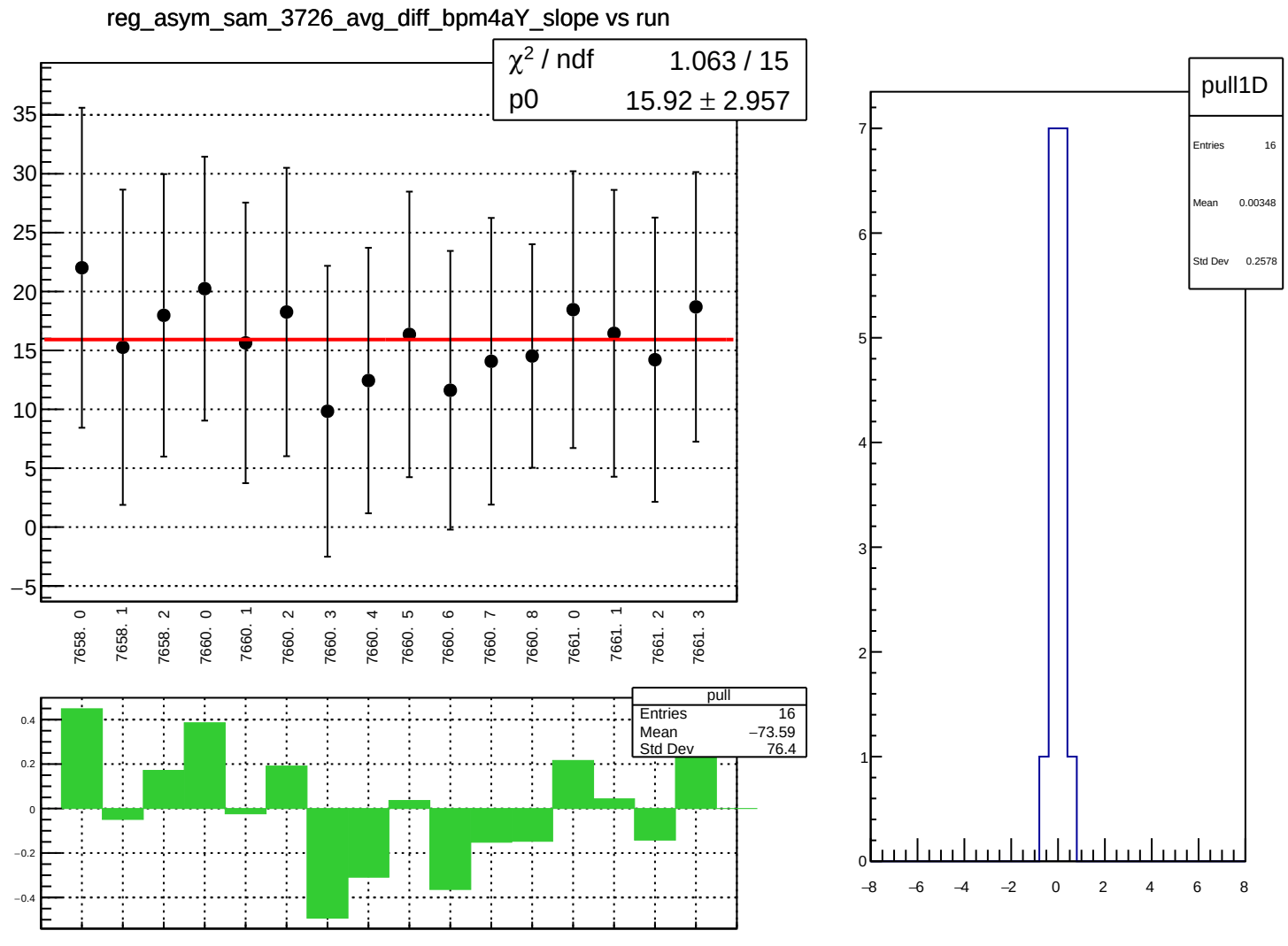

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.39 / 15
p0 9.649 ± 1.46
25
20
15
10
5
0
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −3.117
Std Dev 32.73
1.5
1
0.5
0
−0.5
pull1D
Entries 16
Mean 0.007199
Std Dev 0.5803
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

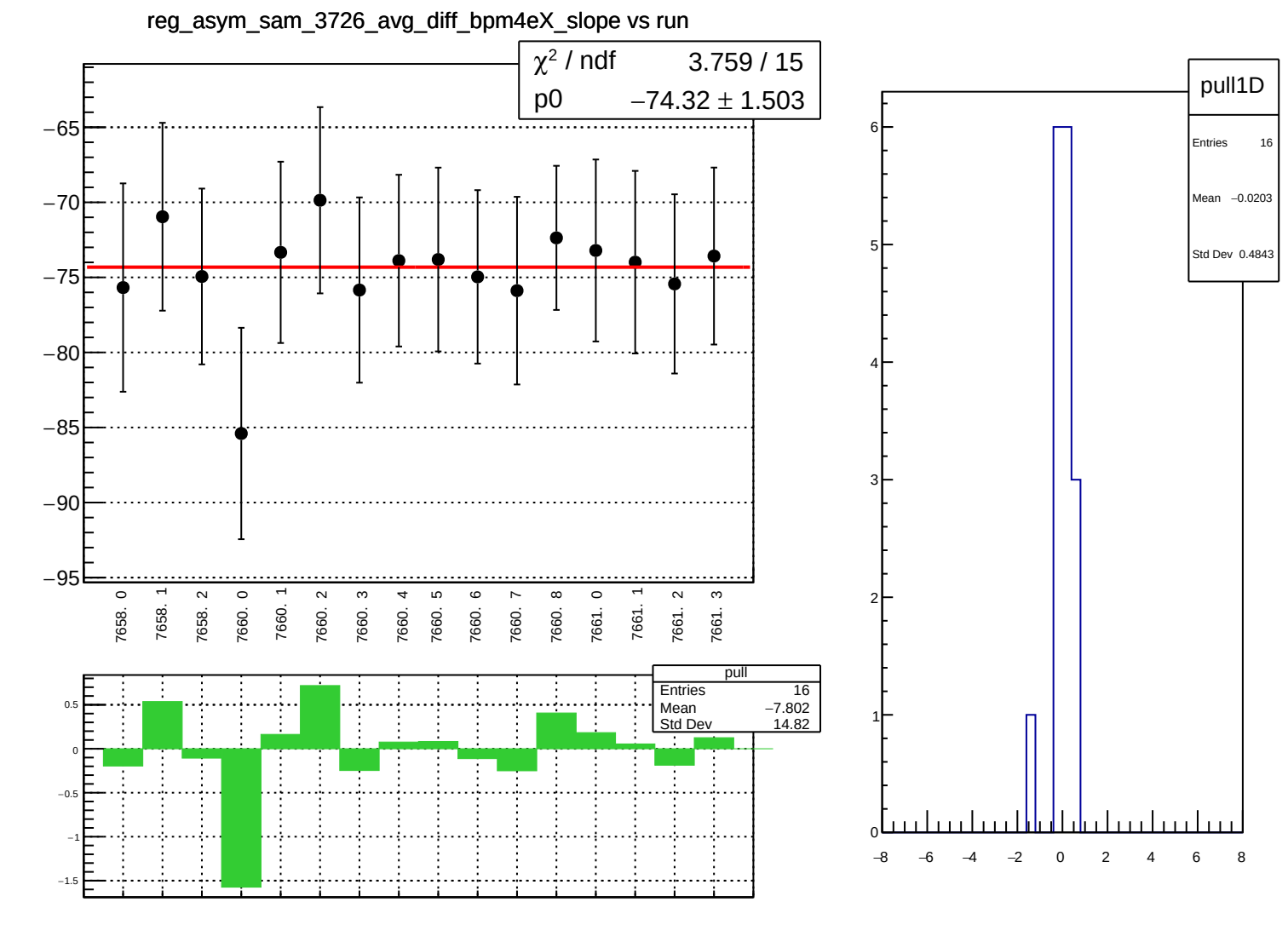

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.998 / 15
p0 −35.1 ± 0.7414
−30
−32
−34
−36
−38
−40
−42
−44
−46
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −11.43
Std Dev 19.11
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 16
Mean −0.02642
Std Dev 0.5583
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

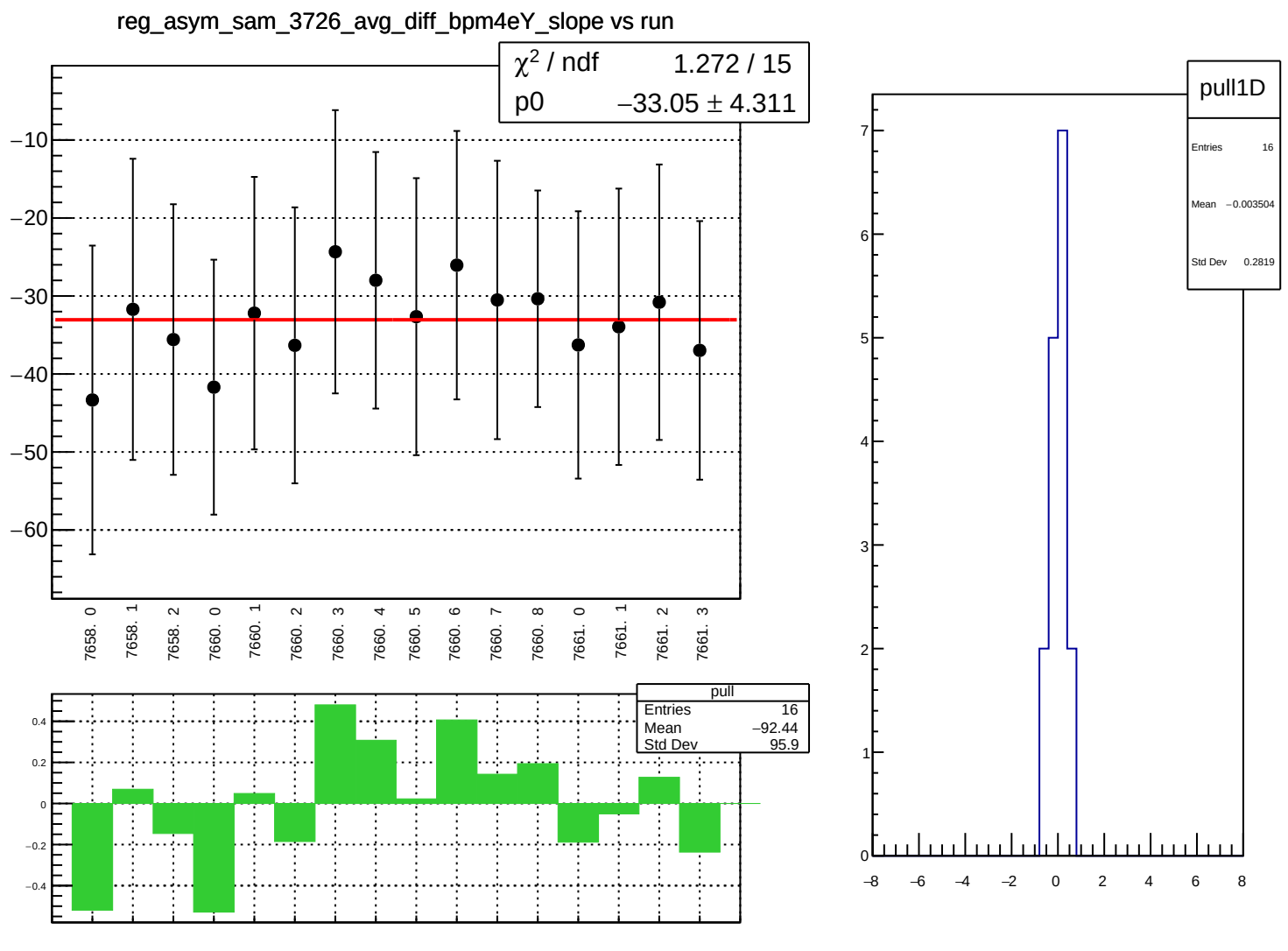

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.547 / 15
p0 −4.422 ± 2.128
15
10
5
0
−5
−10
−15
−20
−25
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −18.32
Std Dev 20.45
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 16
Mean −0.00849
Std Dev 0.6396
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

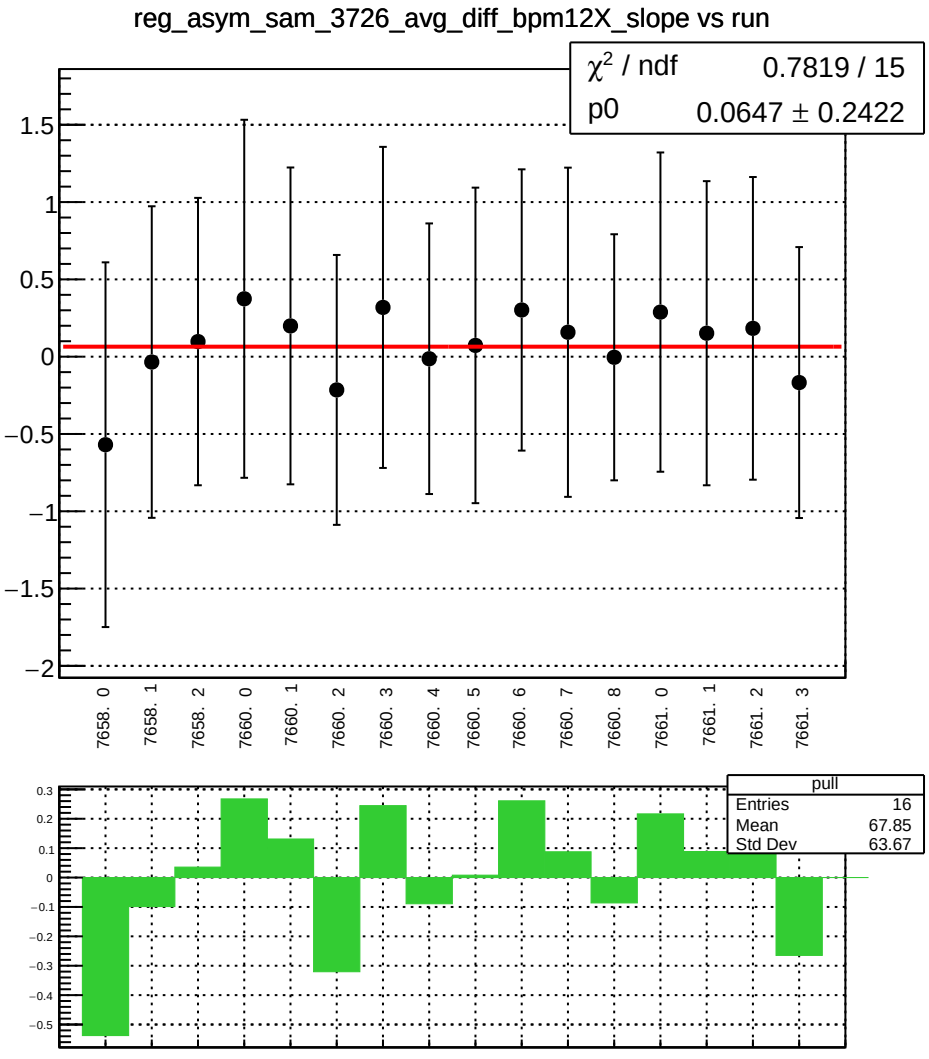

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 1.334 / 15
p0 0.07751 ± 0.1193
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −55.93
Std Dev 57.41
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 16
Mean −0.003998
Std Dev 0.2887
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

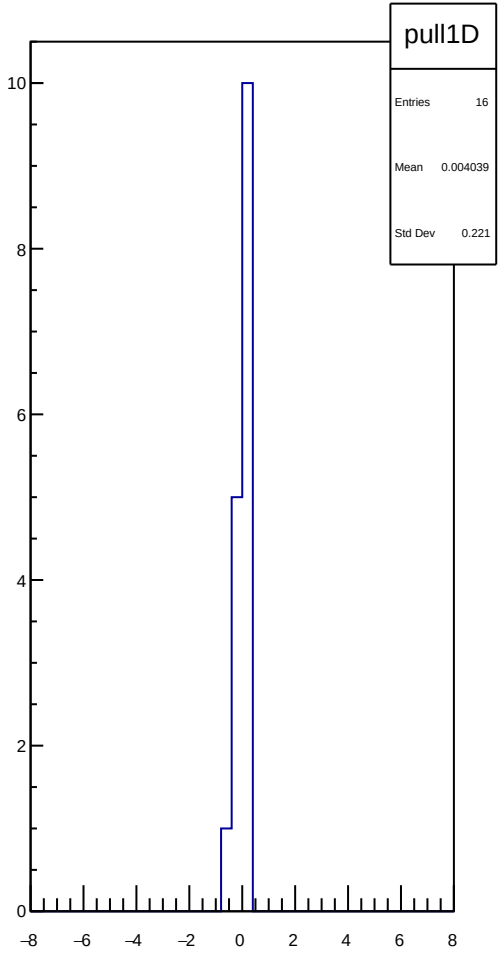

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 1.753 / 15
p0 4.82 ± 1.829
15
10
5
0
−5
−10
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −254.7
Std Dev 260.4
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 16
Mean −0.002409
Std Dev 0.331
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

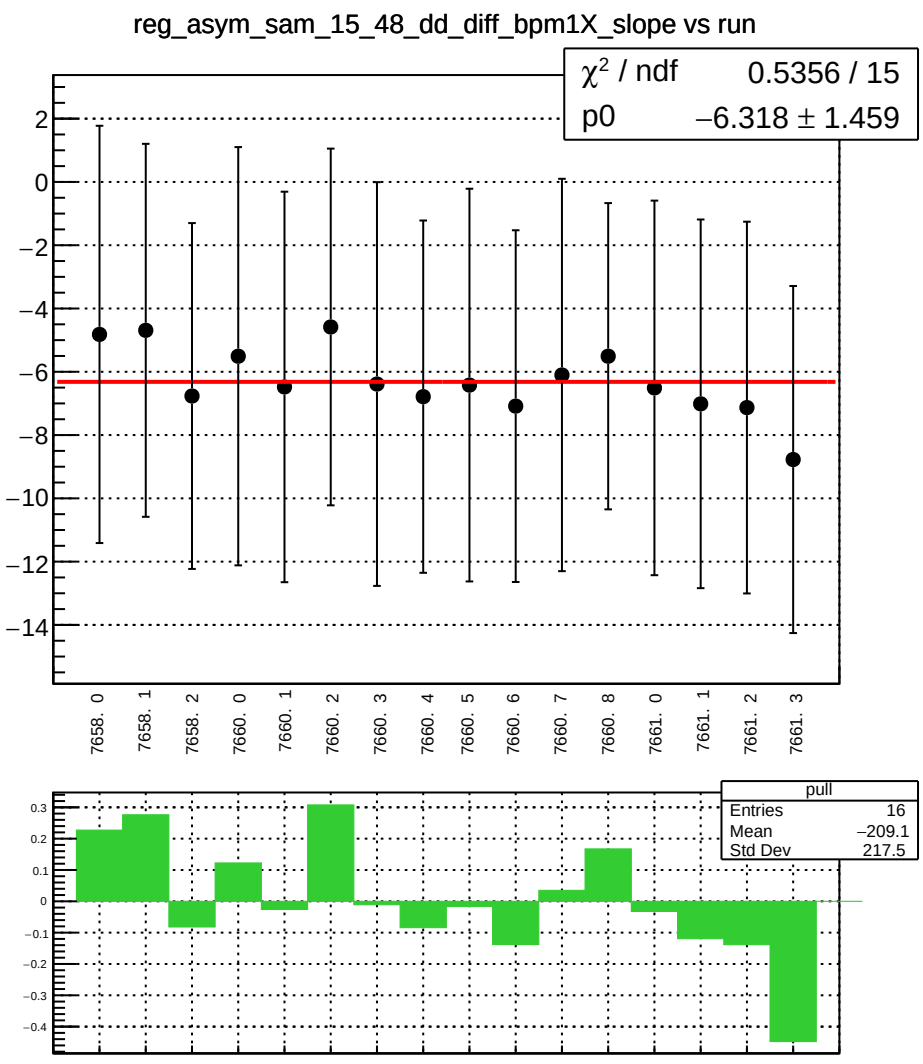

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.063 / 15
p0 15.92 ± 2.957
35
30
25
20
15
10
5
0
−5
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −73.59
Std Dev 76.4
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 16
Mean 0.00348
Std Dev 0.2578
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

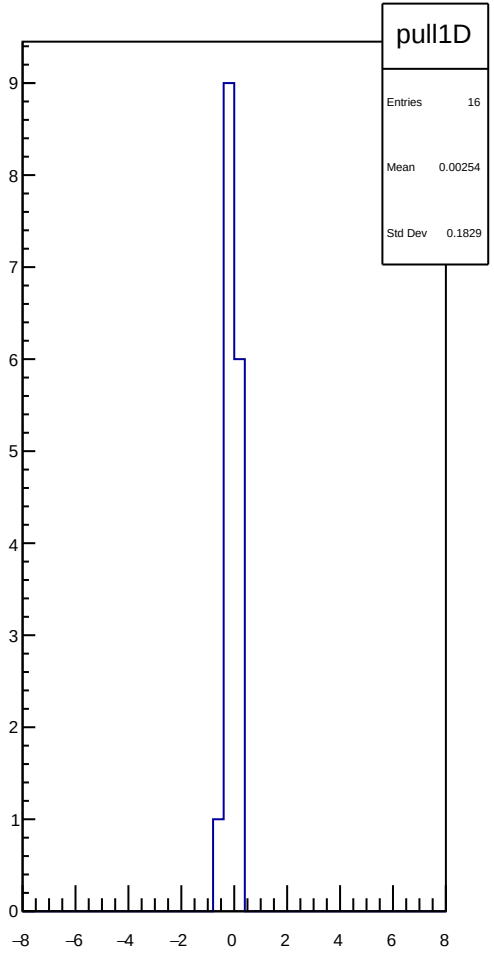

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.759 / 15
p0 −74.32 ± 1.503
−65
−70
−75
−80
−85
−90
−95
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −7.802
Std Dev 14.82
0.5
0
−0.5
−1
−1.5
pull1D
Entries 16
Mean −0.0203
Std Dev 0.4843
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

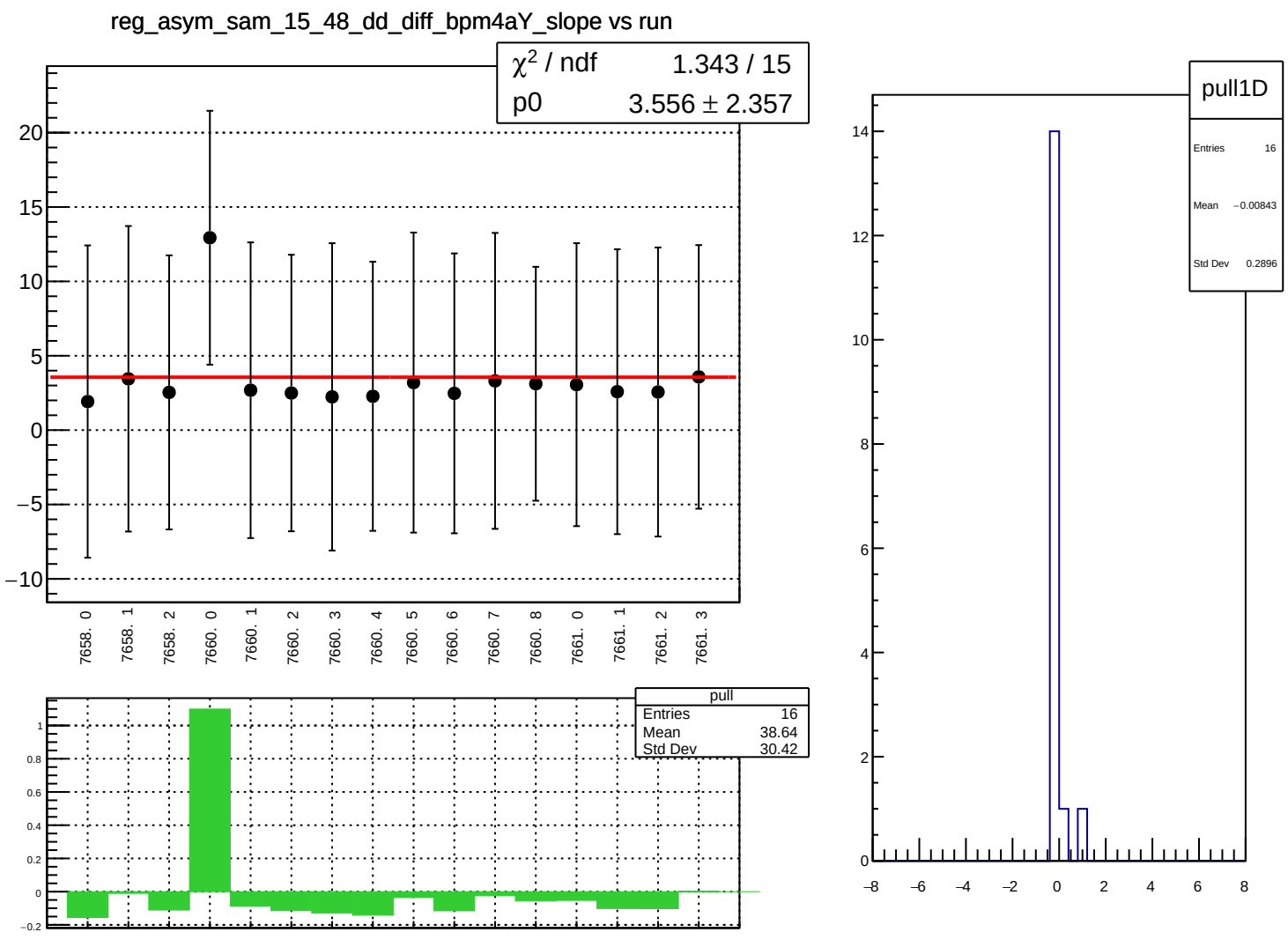

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.272 / 15
p0 −33.05 ± 4.311
−10
−20
−30
−40
−50
−60
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −92.44
Std Dev 95.9
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 16
Mean −0.003504
Std Dev 0.2819
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

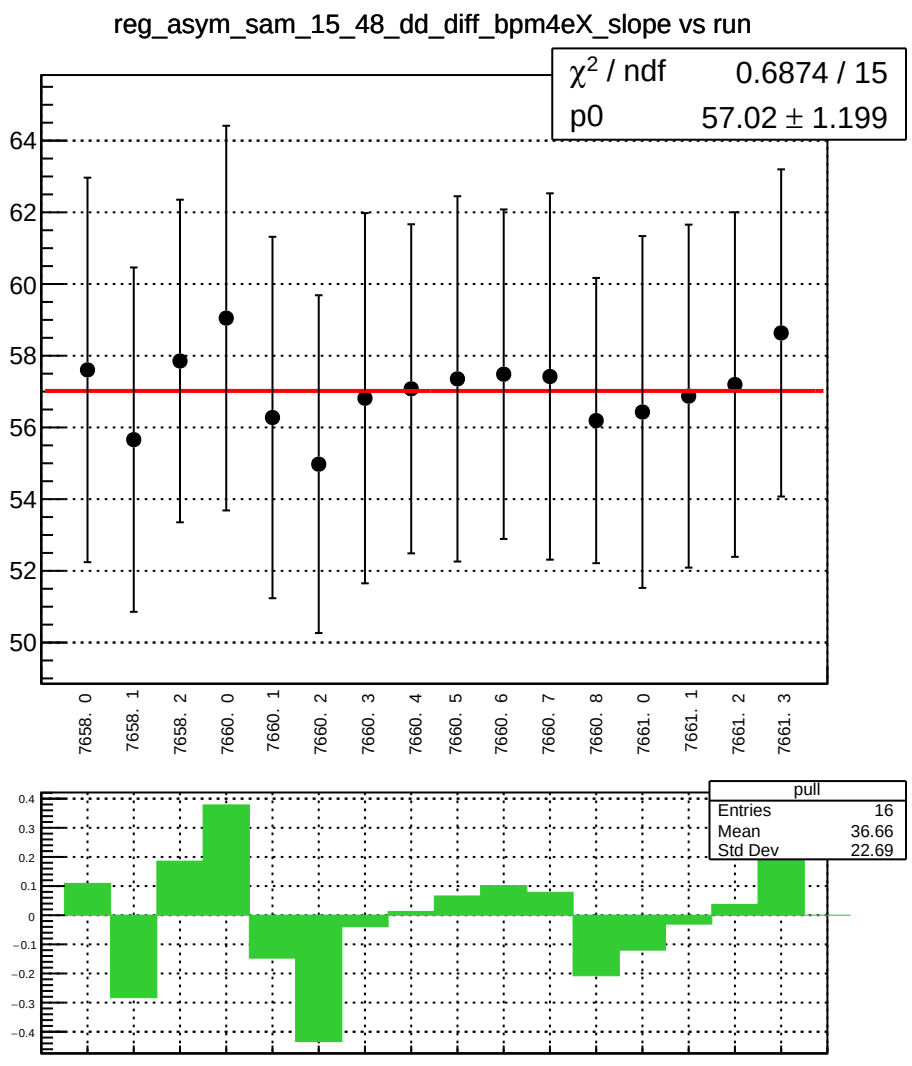

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 0.7819 / 15
p0 0.0647 ± 0.2422
1.5
1
0.5
0
−0.5
−1
−1.5
−2
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 67.85
Std Dev 63.67
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5

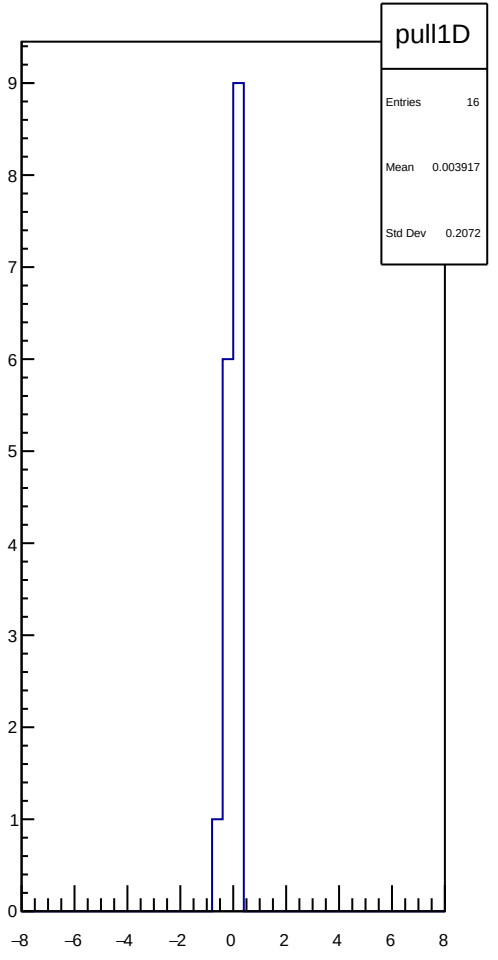

pull1D
Entries 16
Mean 0.004039
Std Dev 0.221
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

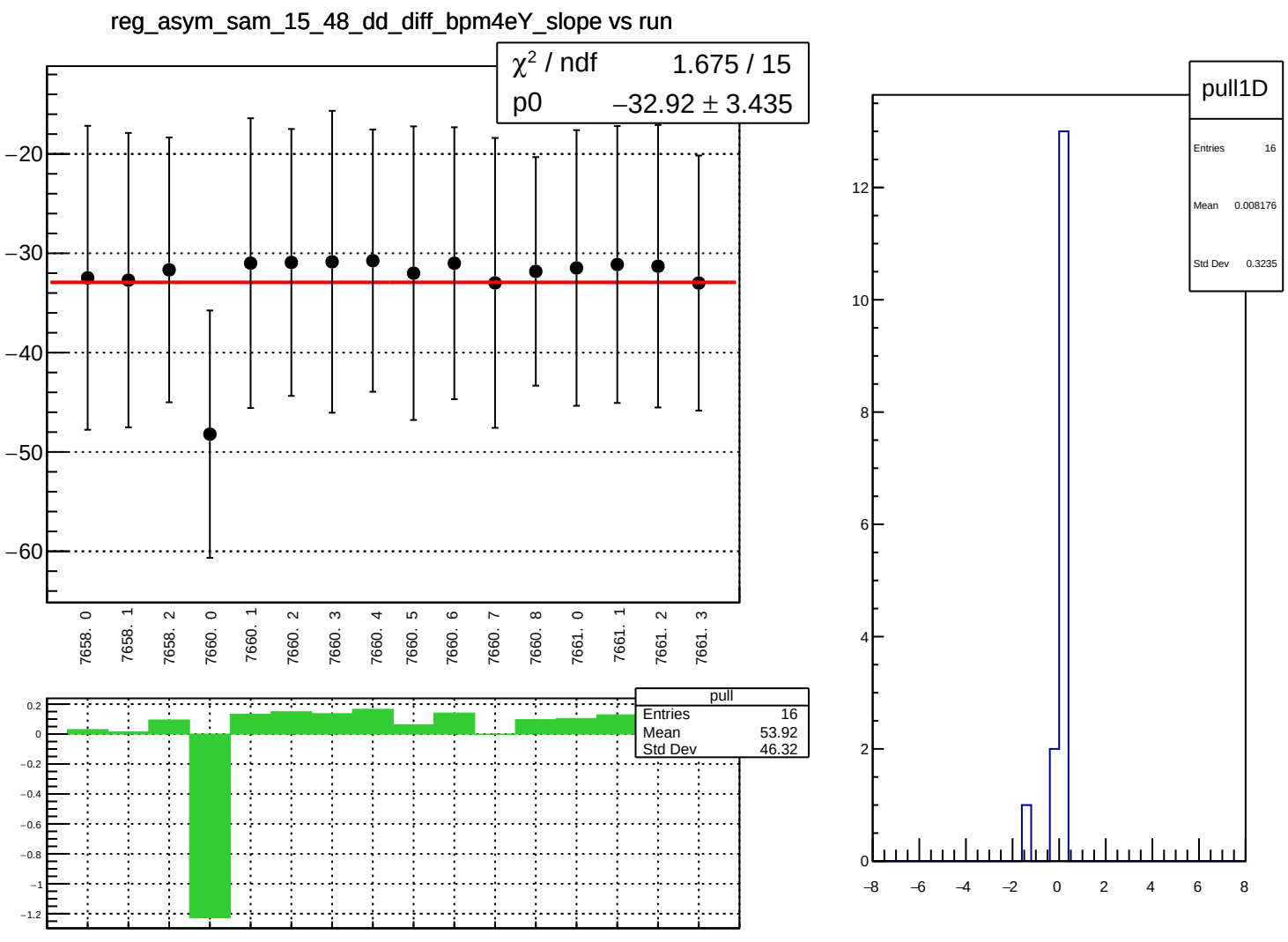

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 0.5356 / 15
p0 −6.318 ± 1.459
2
0
−2
−4
−6
−8
−10
−12
−14
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −209.1
Std Dev 217.5
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

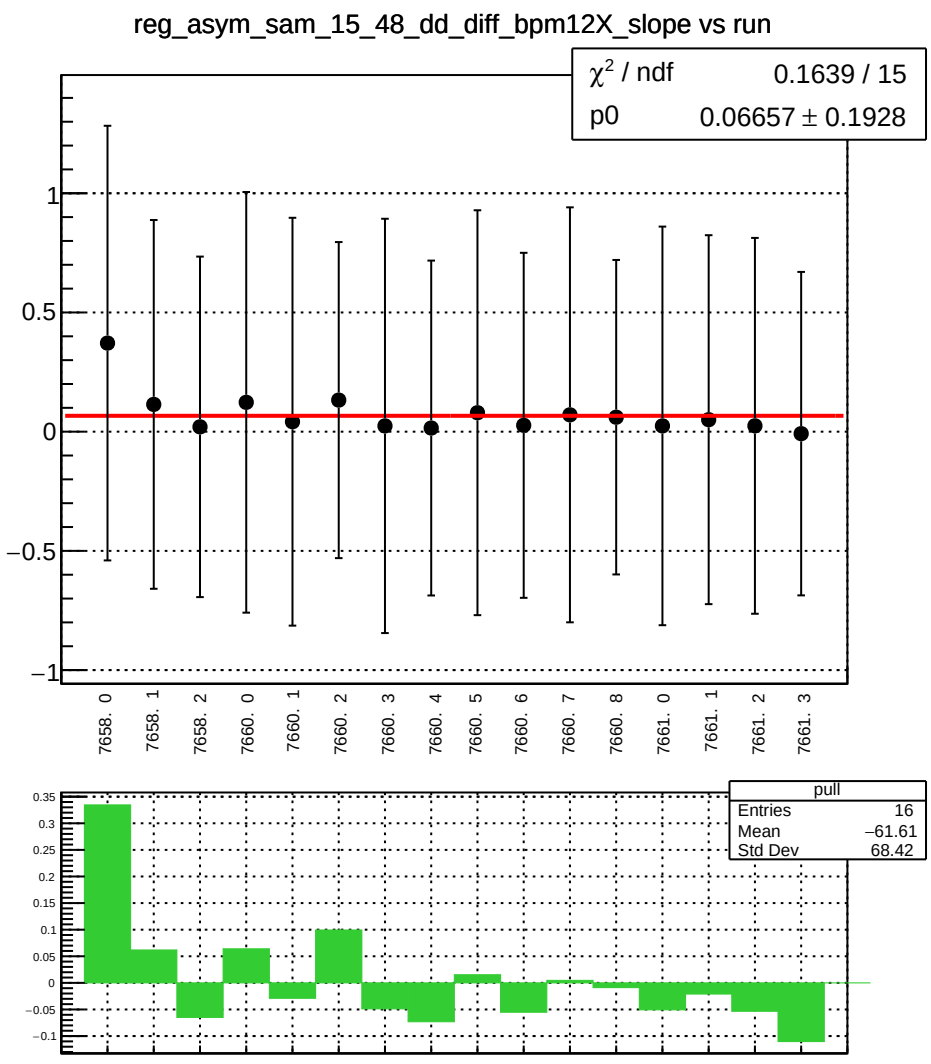

pull1D
Entries 16
Mean 0.00254
Std Dev 0.1829
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

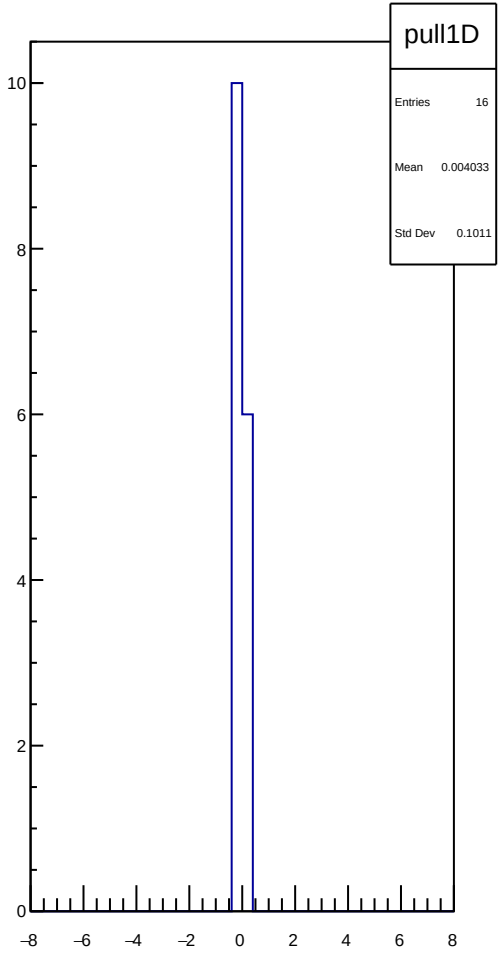

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.343 / 15
p0 3.556 ± 2.357
20
15
10
5
0
−5
−10
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 38.64
Std Dev 30.42
1
0.8
0.6
0.4
0.2
0
−0.2
pull1D
Entries 16
Mean −0.00843
Std Dev 0.2896
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

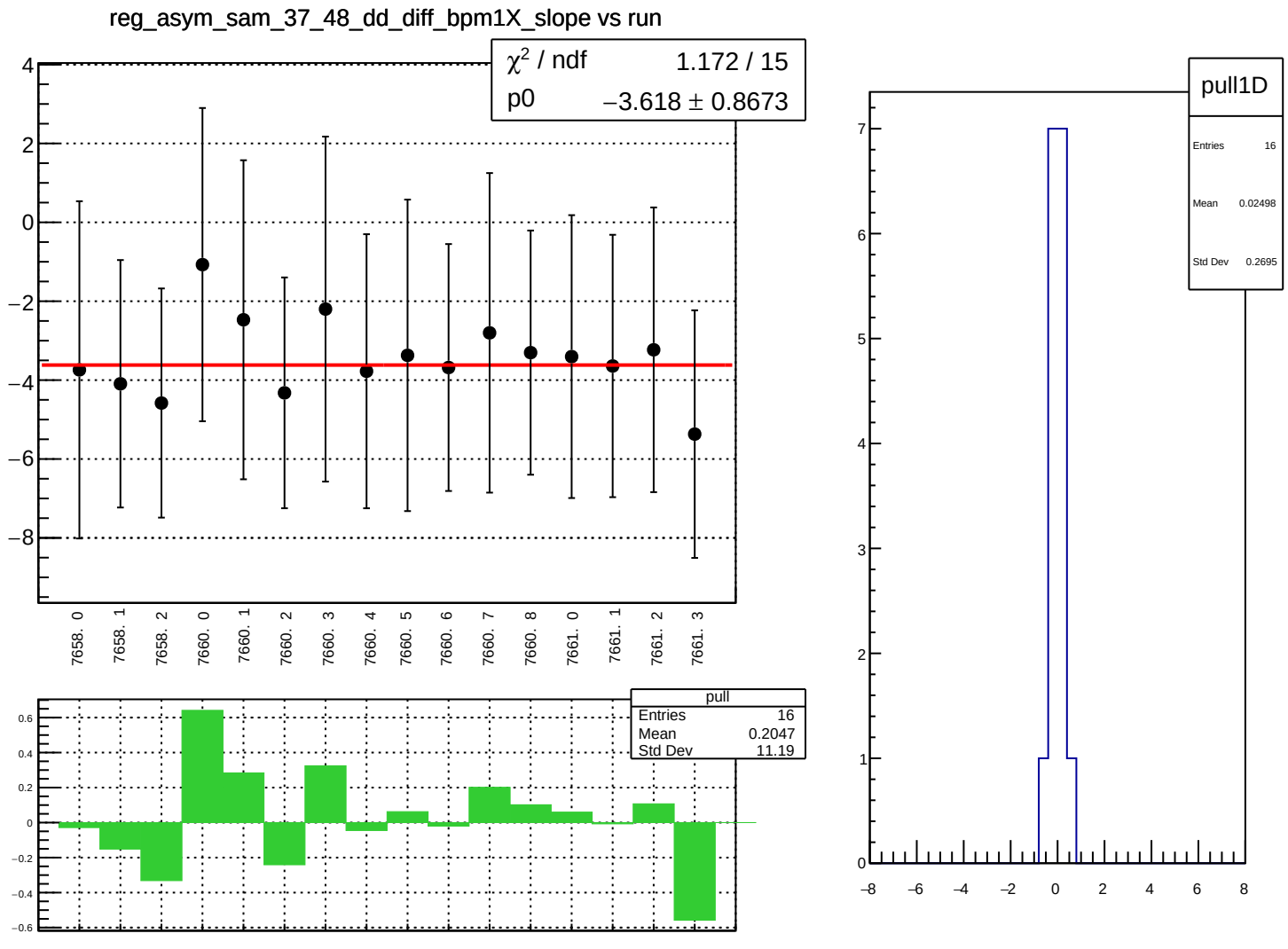

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.6874 / 15
p0 57.02 ± 1.199
64
62
60
58
56
54
52
50
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 36.66
Std Dev 22.69
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

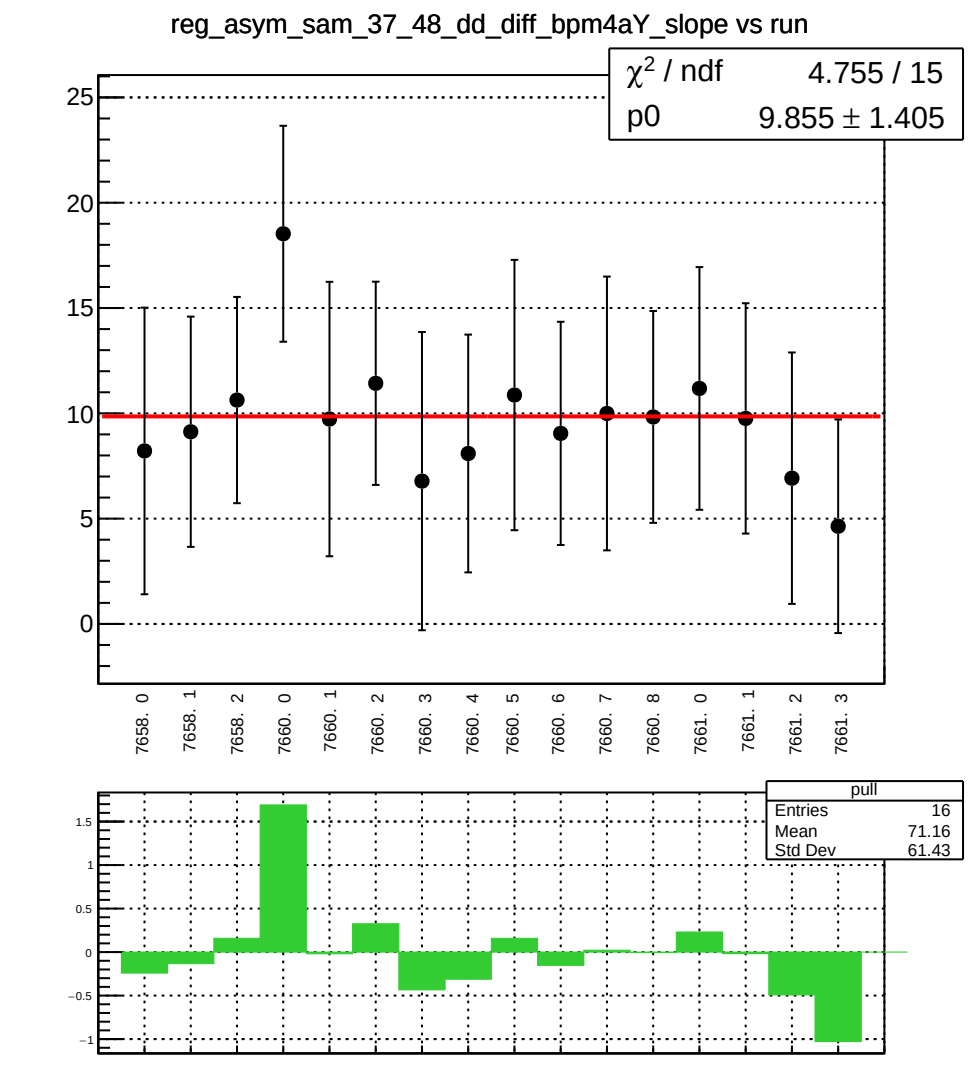

pull1D
Entries 16
Mean 0.003917
Std Dev 0.2072
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

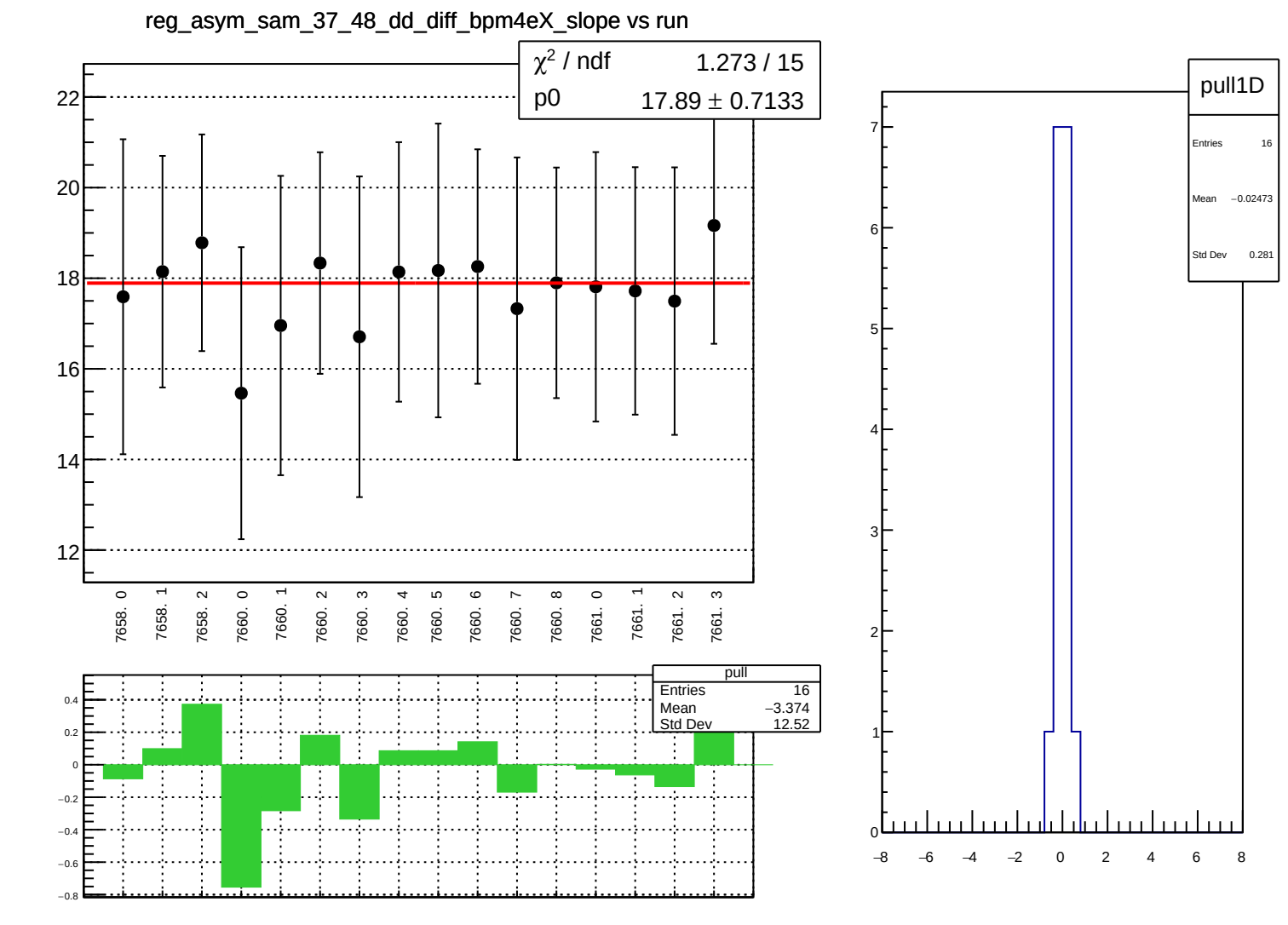

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.675 / 15
p0 −32.92 ± 3.435
−20
−30
−40
−50
−60
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 53.92
Std Dev 46.32
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 16
Mean 0.008176
Std Dev 0.3235
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

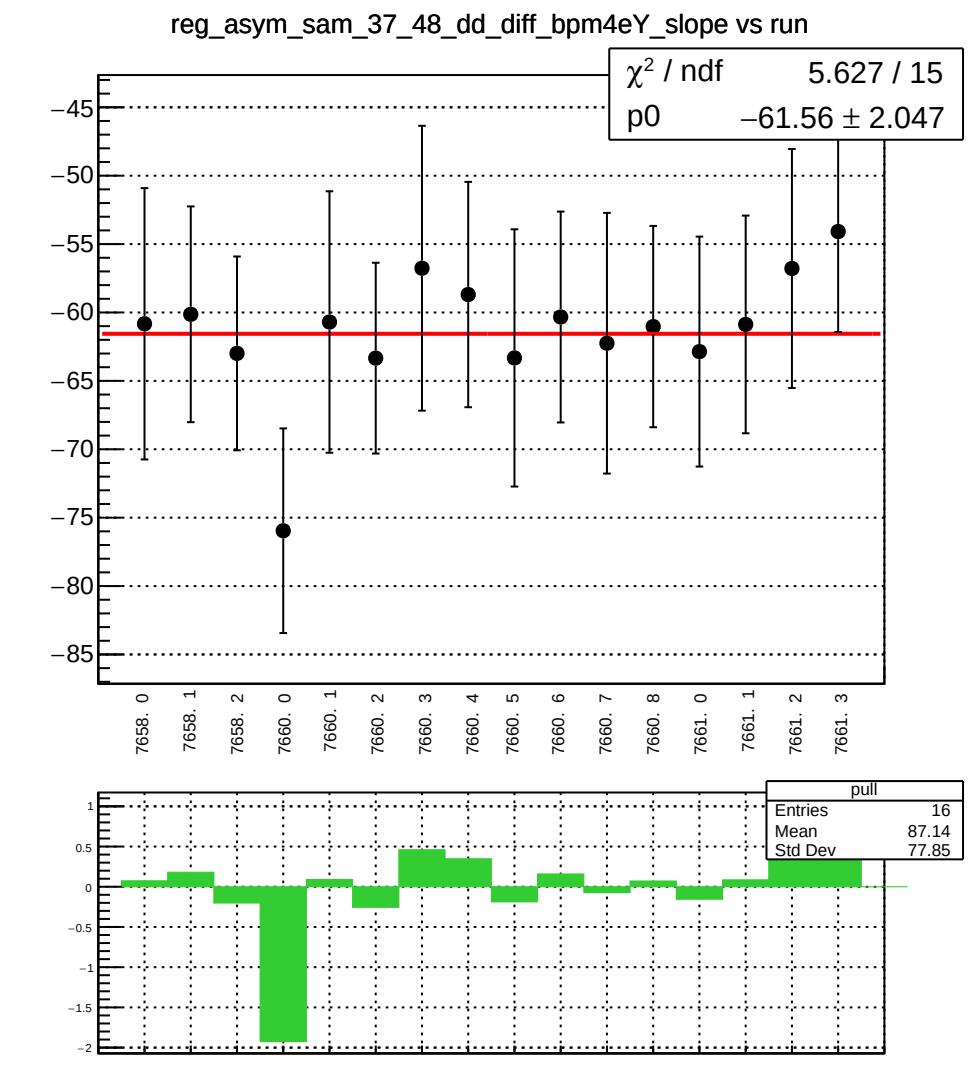

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 0.1639 / 15
p0 0.06657 ± 0.1928
1
0.5
0
−0.5
−1
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −61.61
Std Dev 68.42
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
−0.05
−0.1

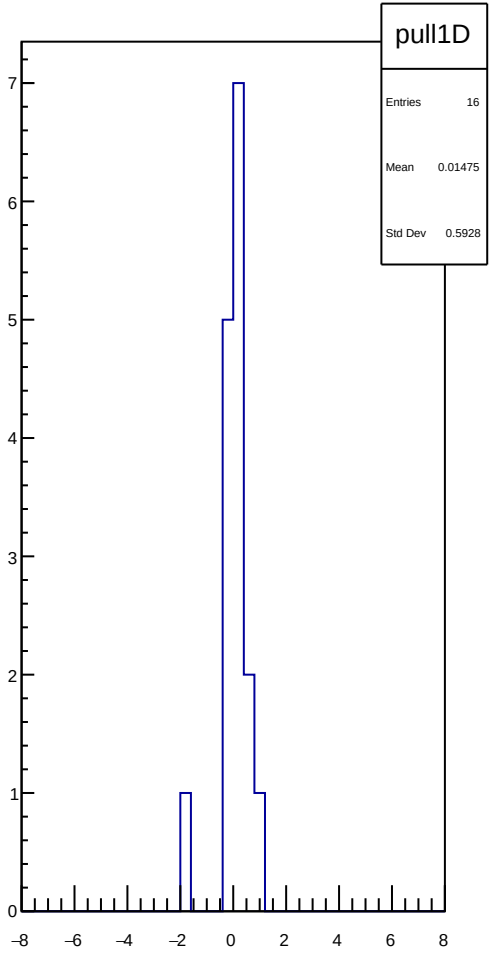

pull1D
Entries 16
Mean 0.004033
Std Dev 0.1011
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

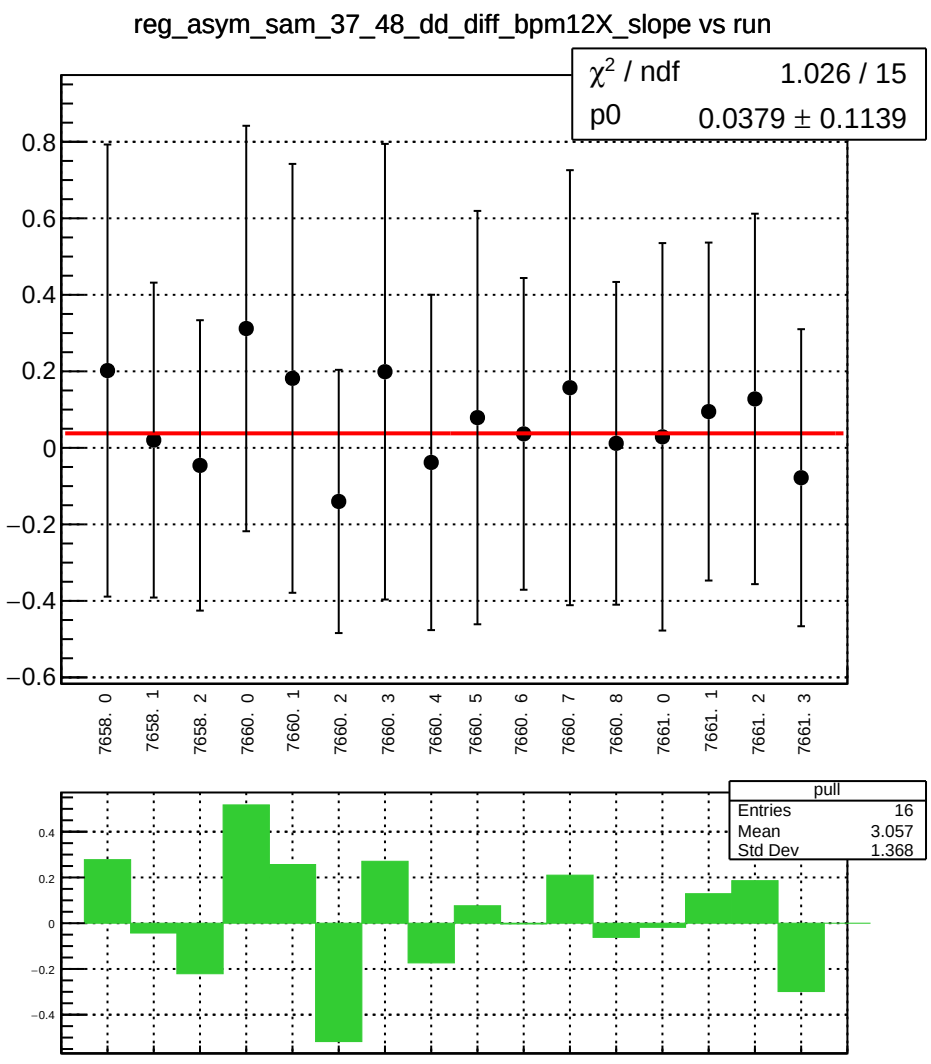

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 1.172 / 15
p0 −3.618 ± 0.8673
4
2
0
−2
−4
−6
−8
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 0.2047
Std Dev 11.19
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 16
Mean 0.02498
Std Dev 0.2695
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

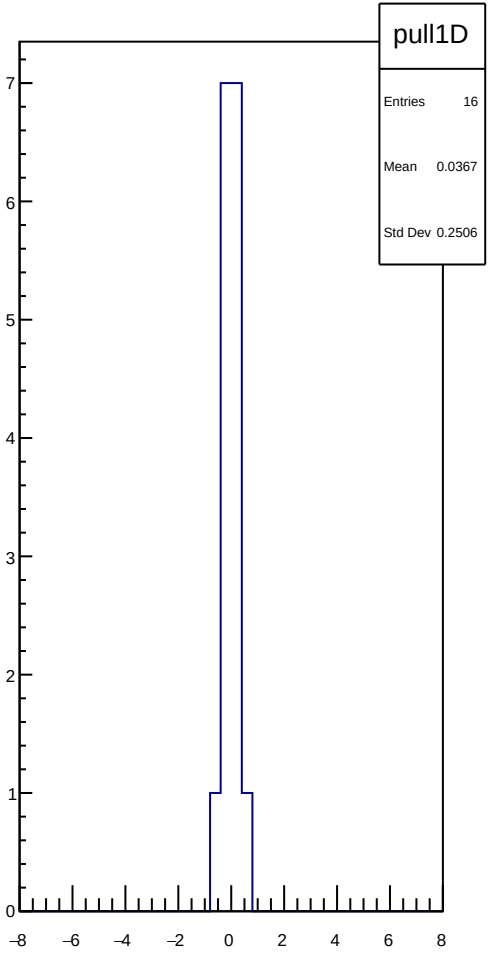

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.755 / 15
p0 9.855 ± 1.405
25
20
15
10
5
0
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 71.16
Std Dev 61.43
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 16
Mean −0.01566
Std Dev 0.5449
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

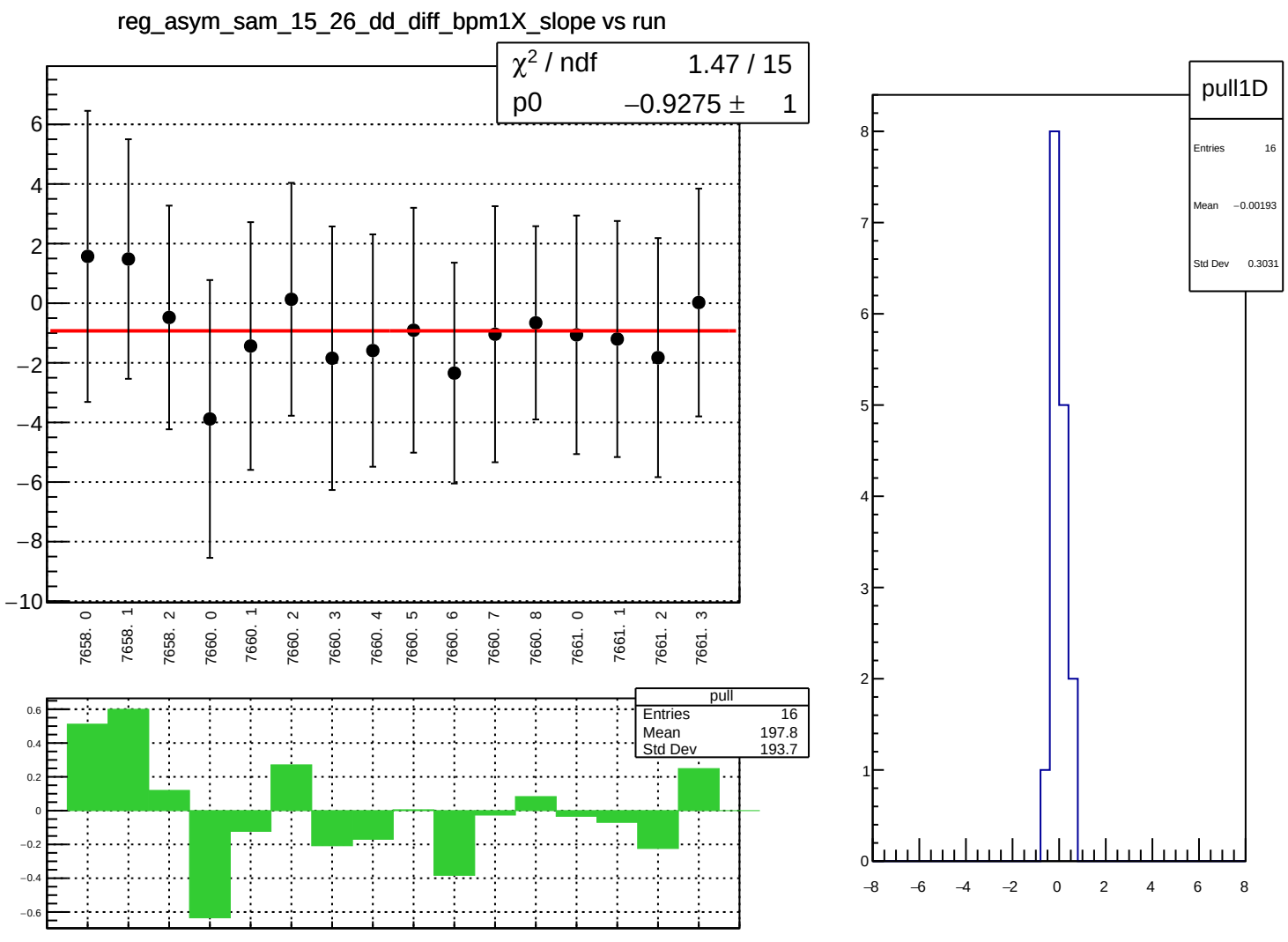

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.273 / 15
p0 17.89 ± 0.7133
22
20
18
16
14
12
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −3.374
Std Dev 12.52
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 16
Mean −0.02473
Std Dev 0.281
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

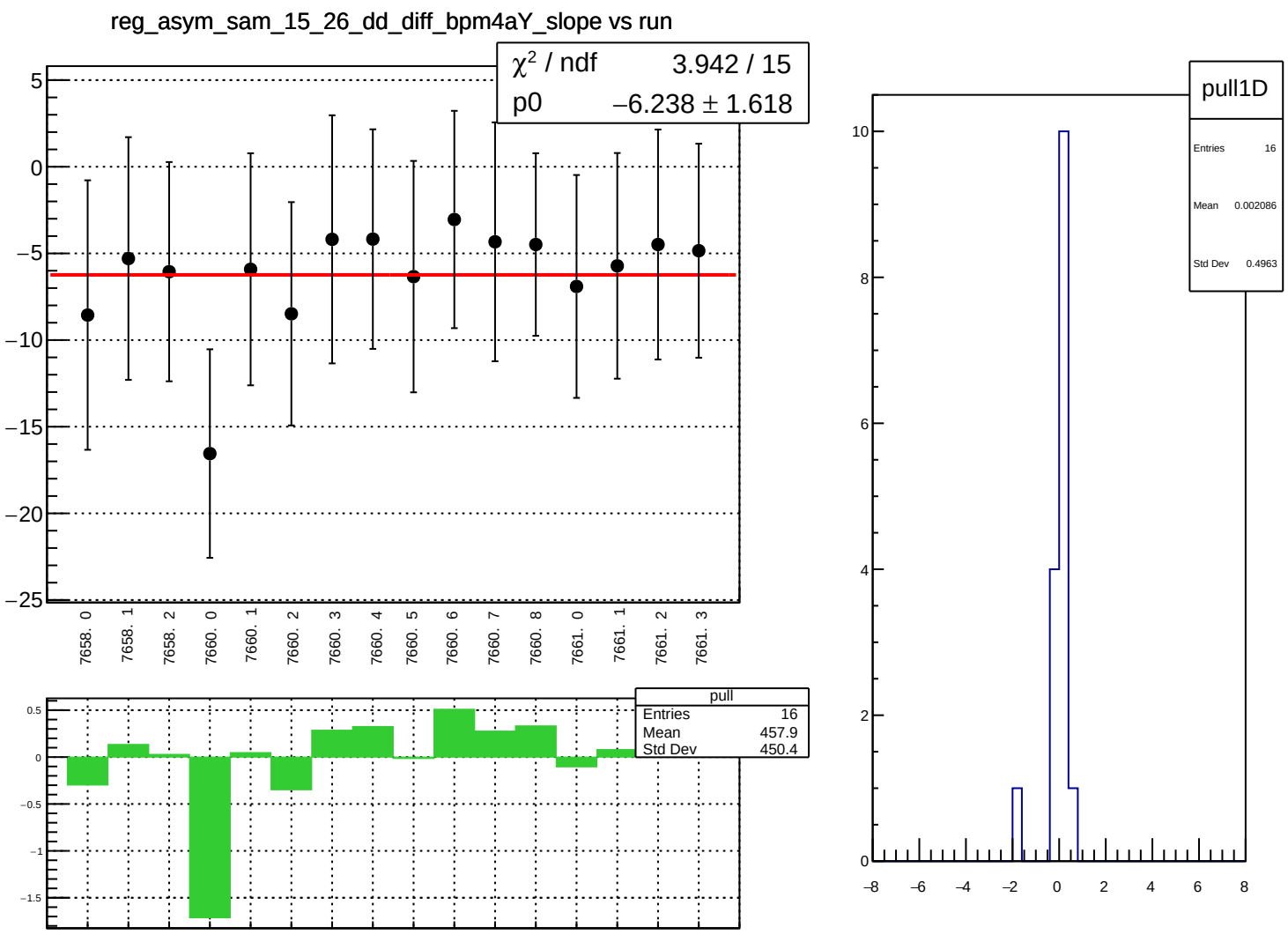

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.627 / 15
p0 −61.56 ± 2.047
−45
−50
−55
−60
−65
−70
−75
−80
−85
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 87.14
Std Dev 77.85
1
0.5
0
−0.5
−1
−1.5
−2

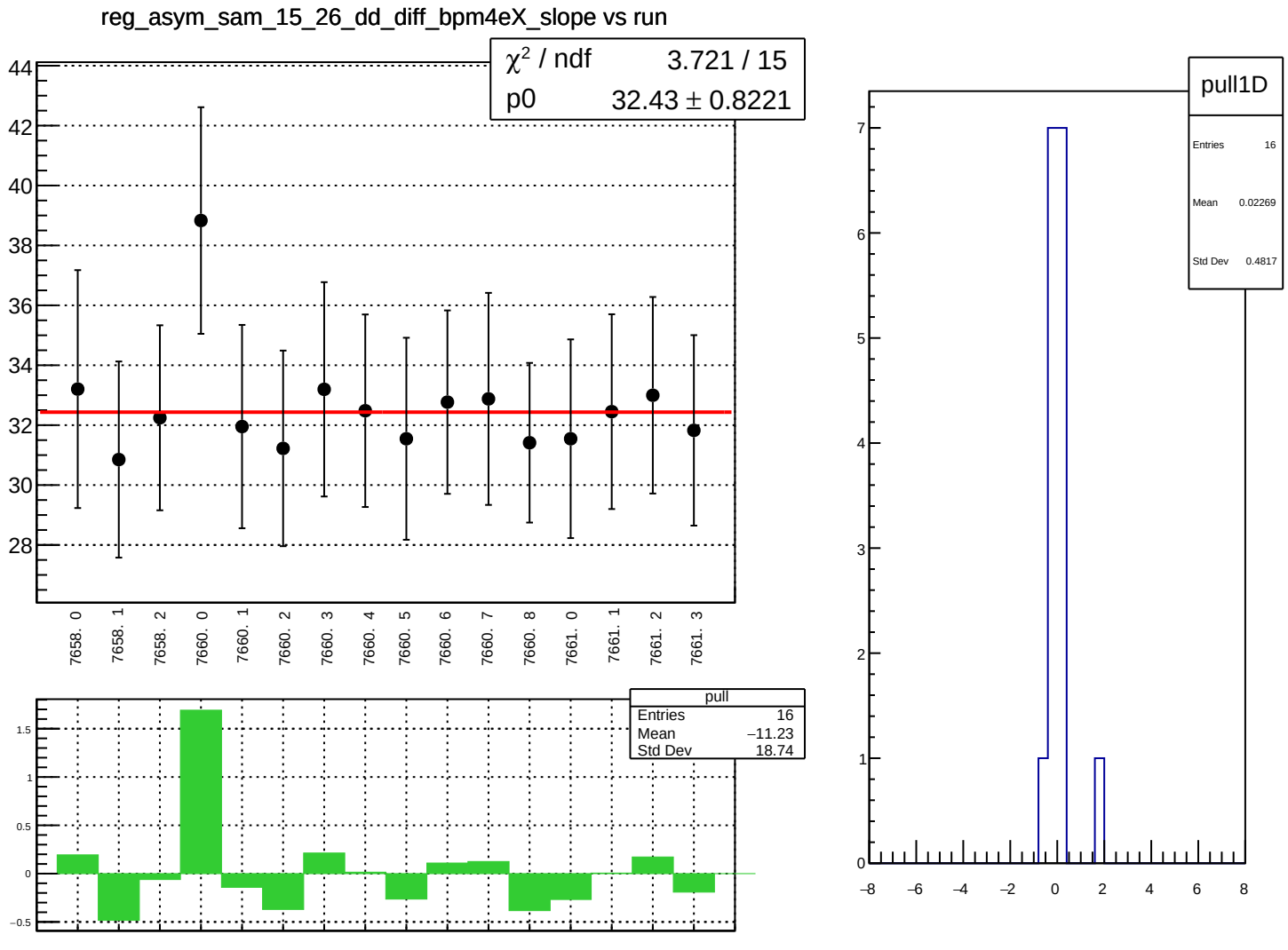

pull1D
Entries 16
Mean 0.01475
Std Dev 0.5928
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

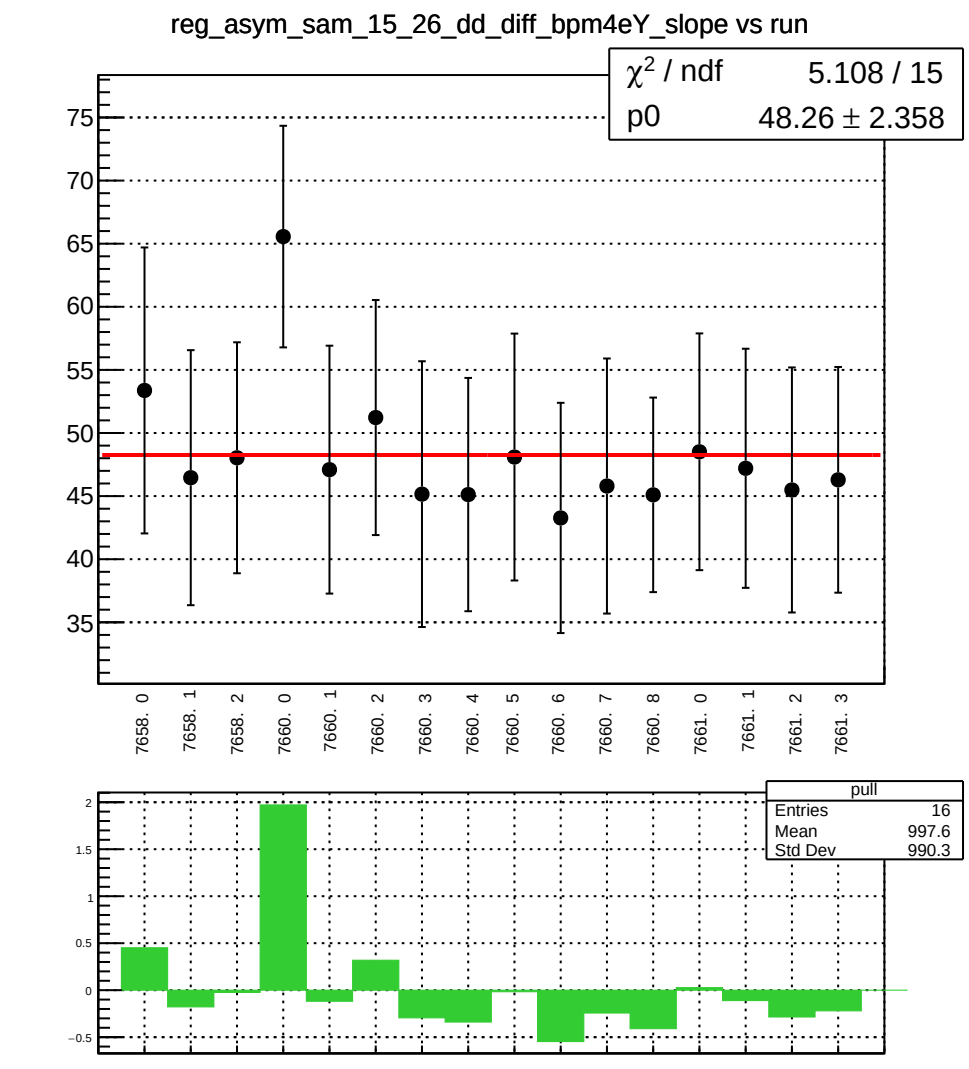

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 1.026 / 15
p0 0.0379 ± 0.1139
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 3.057
Std Dev 1.368
0.4
0.2
0
−0.2
−0.4

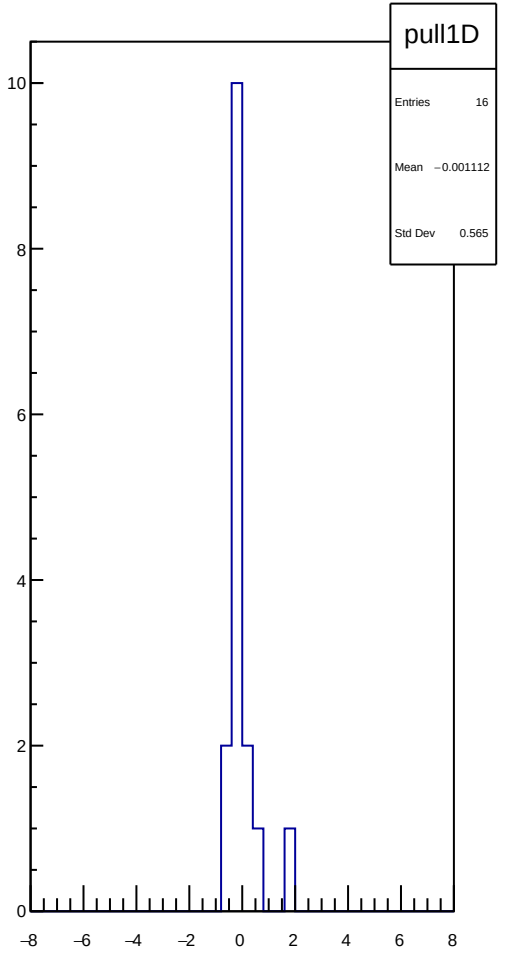

pull1D
Entries 16
Mean 0.0367
Std Dev 0.2506
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

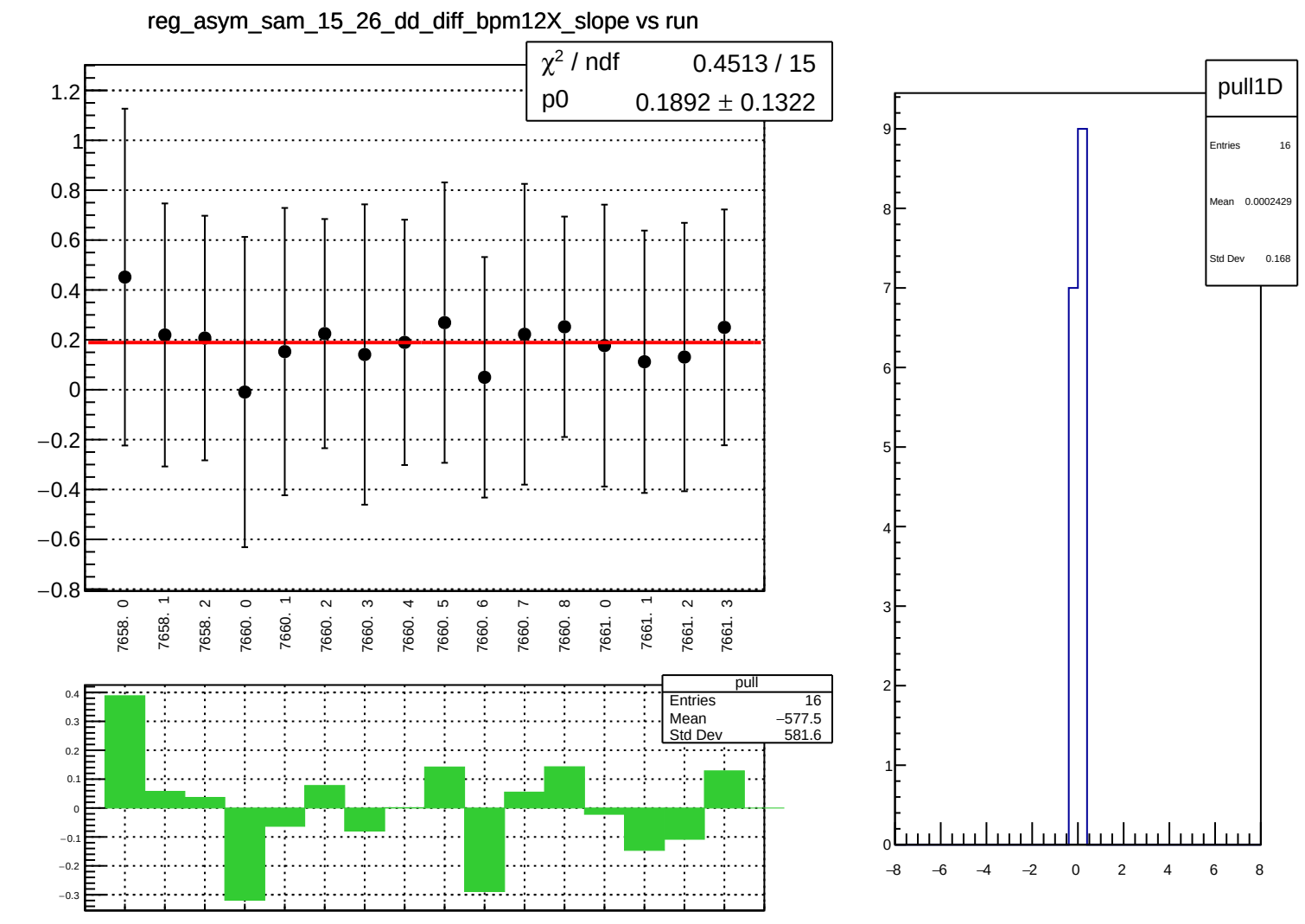

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 1.47 / 15
p0 −0.9275 ± 1
6
4
2
0
−2
−4
−6
−8
−10
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 197.8
Std Dev 193.7
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 16
Mean −0.00193
Std Dev 0.3031
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

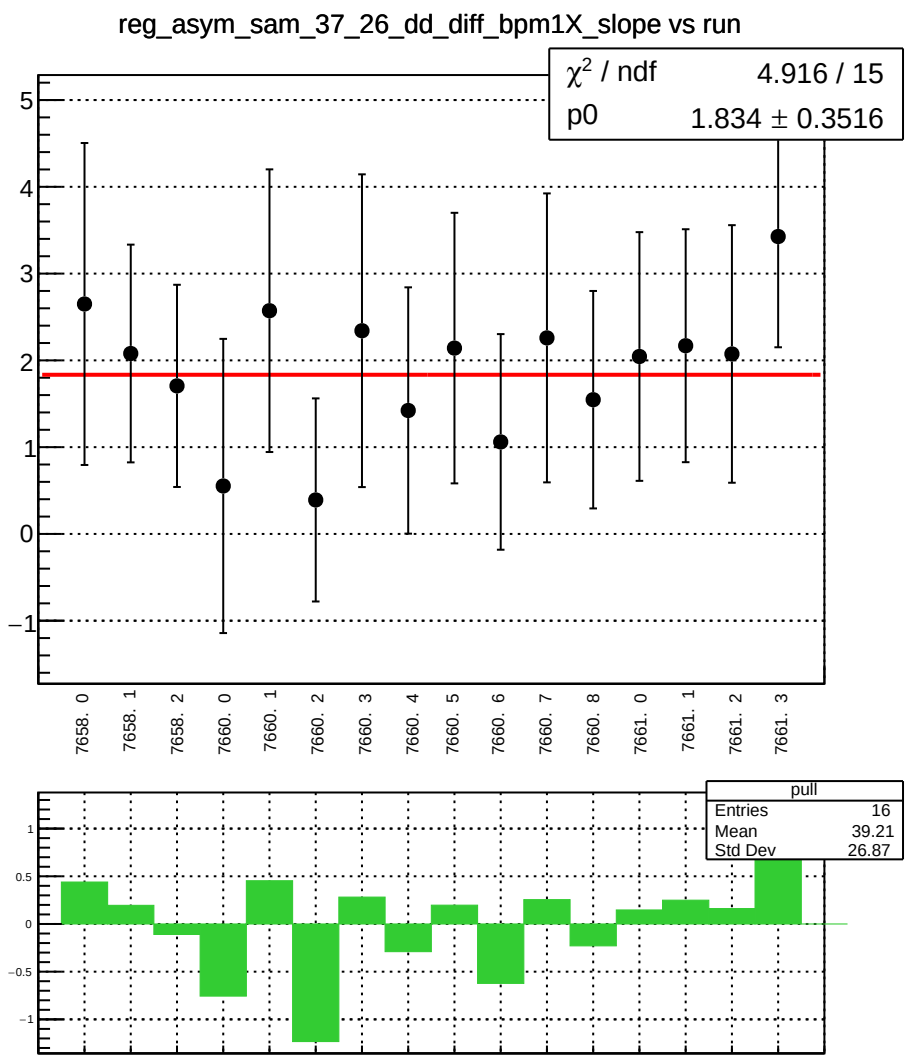

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.942 / 15
p0 −6.238 ± 1.618
5
0
−5
−10
−15
−20
−25
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 457.9
Std Dev 450.4
0.5
0
−0.5
−1
−1.5
pull1D
Entries 16
Mean 0.002086
Std Dev 0.4963
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

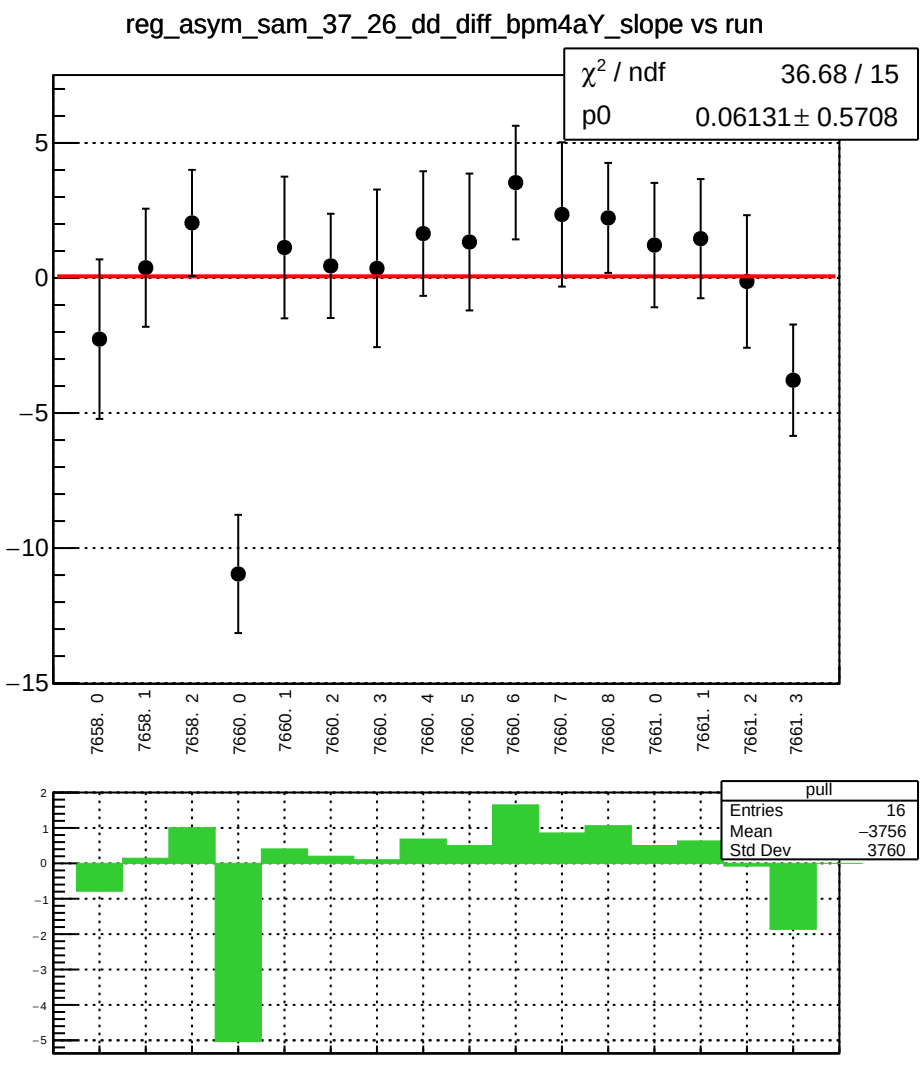

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.721 / 15
p0 32.43 ± 0.8221
44
42
40
38
36
34
32
30
28
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −11.23
Std Dev 18.74
1.5
1
0.5
0
−0.5
pull1D
Entries 16
Mean 0.02269
Std Dev 0.4817
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

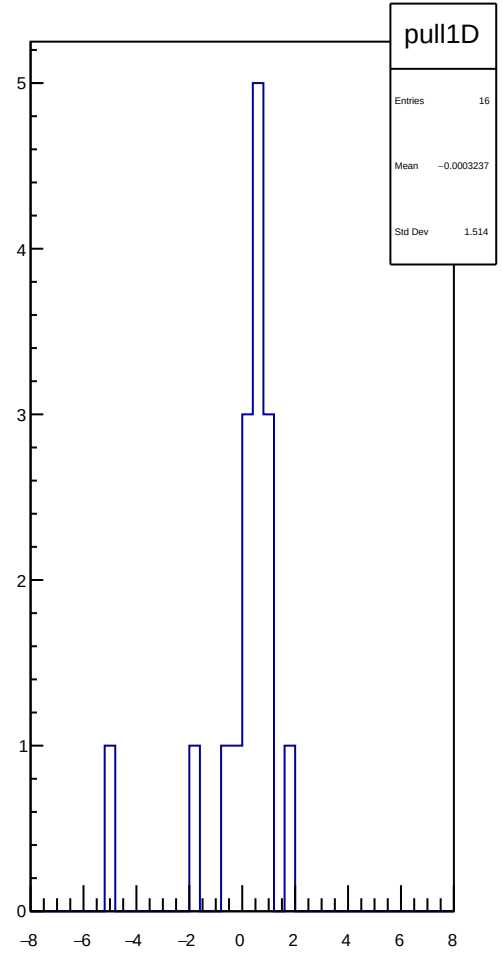

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.108 / 15
p0 48.26 ± 2.358
75
70
65
60
55
50
45
40
35
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 997.6
Std Dev 990.3
2
1.5
1
0.5
0
−0.5

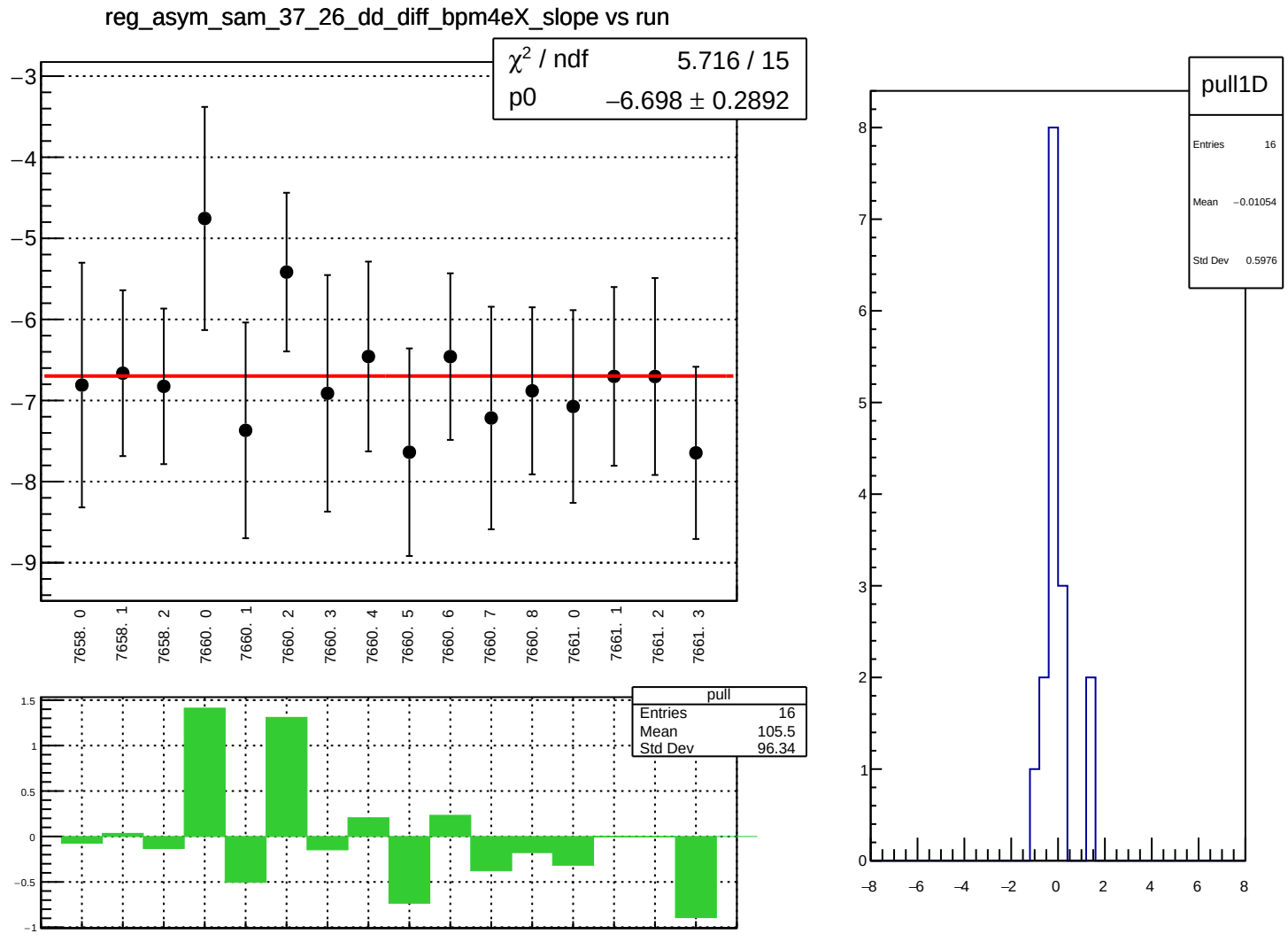

pull1D
Entries 16
Mean −0.001112
Std Dev 0.565
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

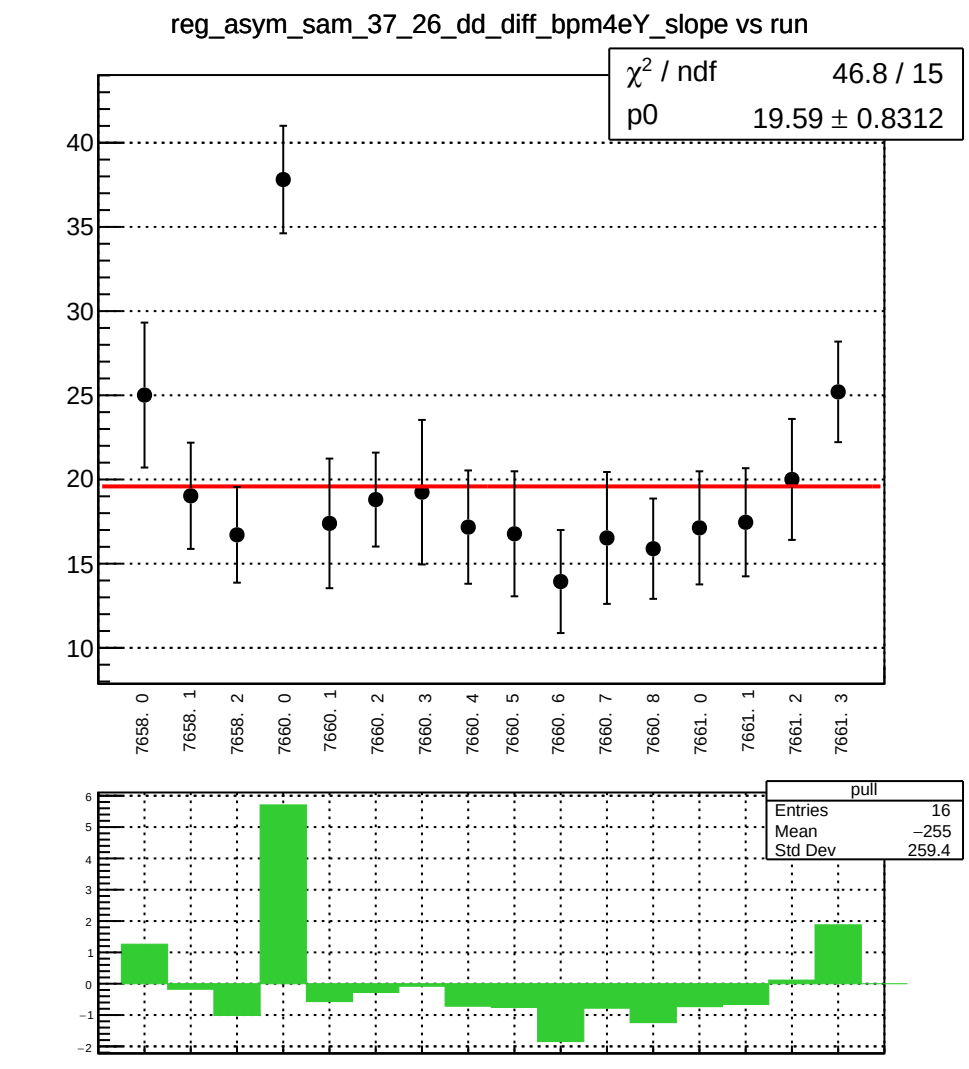

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 0.4513 / 15
p0 0.1892 ± 0.1322
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −577.5
Std Dev 581.6
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 16
Mean 0.0002429
Std Dev 0.168
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

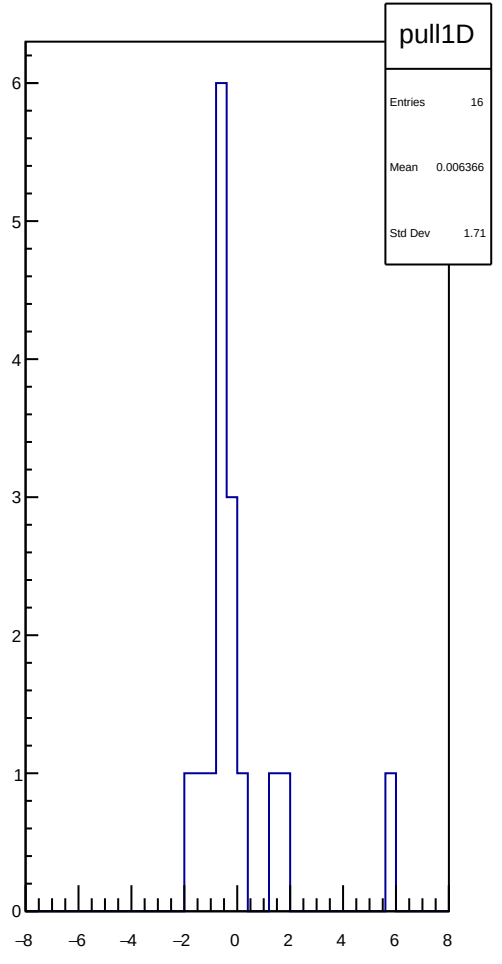

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 4.916 / 15
p0 1.834 ± 0.3516
5
4
3
2
1
0
−1
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 39.21
Std Dev 26.87
1
0.5
0
−0.5
−1
pull1D
Entries 16
Mean 0.02423
Std Dev 0.5538
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

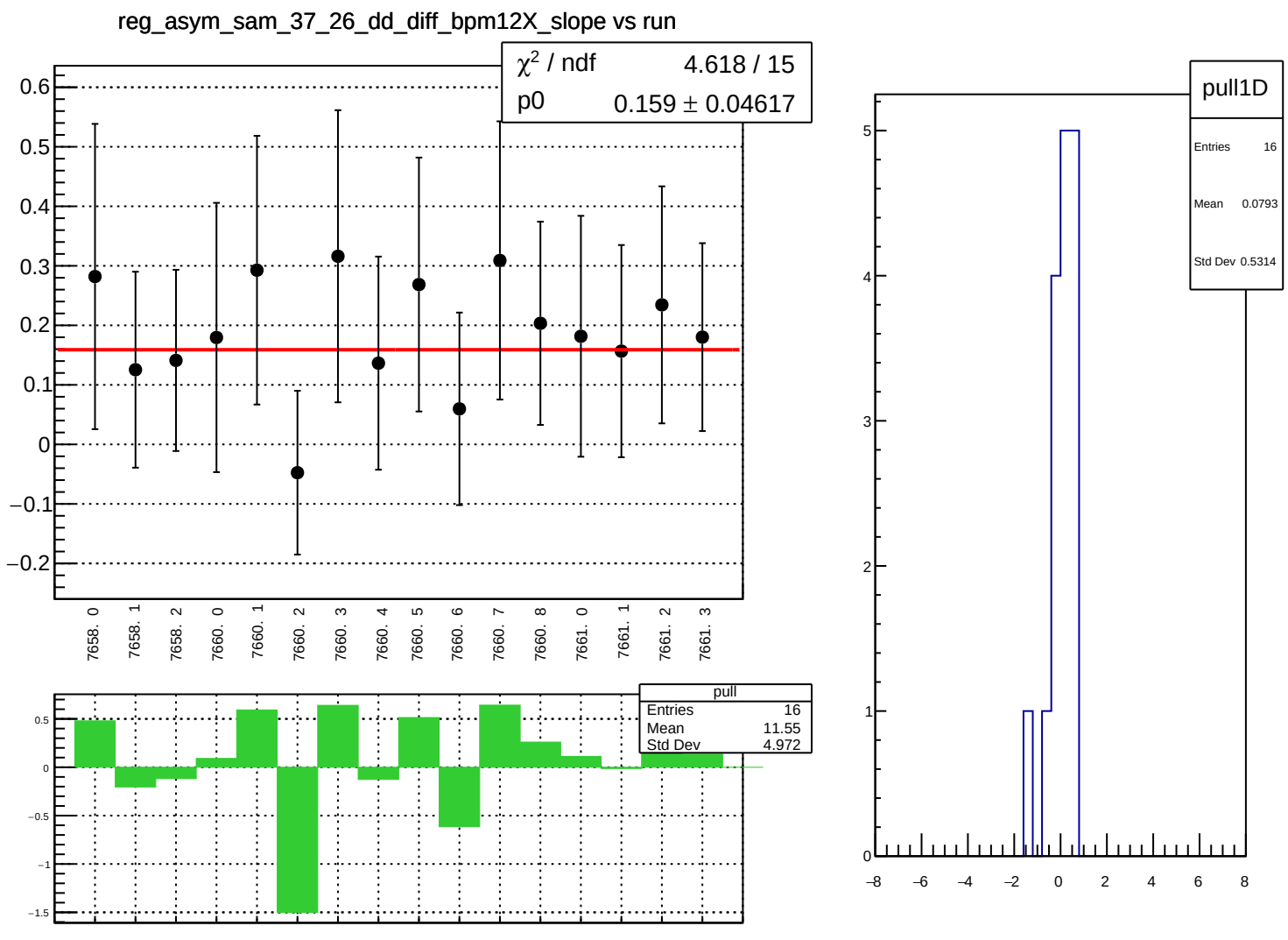

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 36.68 / 15
p0 0.06131 ± 0.5708
5
0
−5
−10
−15
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −3756
Std Dev 3760
2
1
0
−1
−2
−3
−4
−5

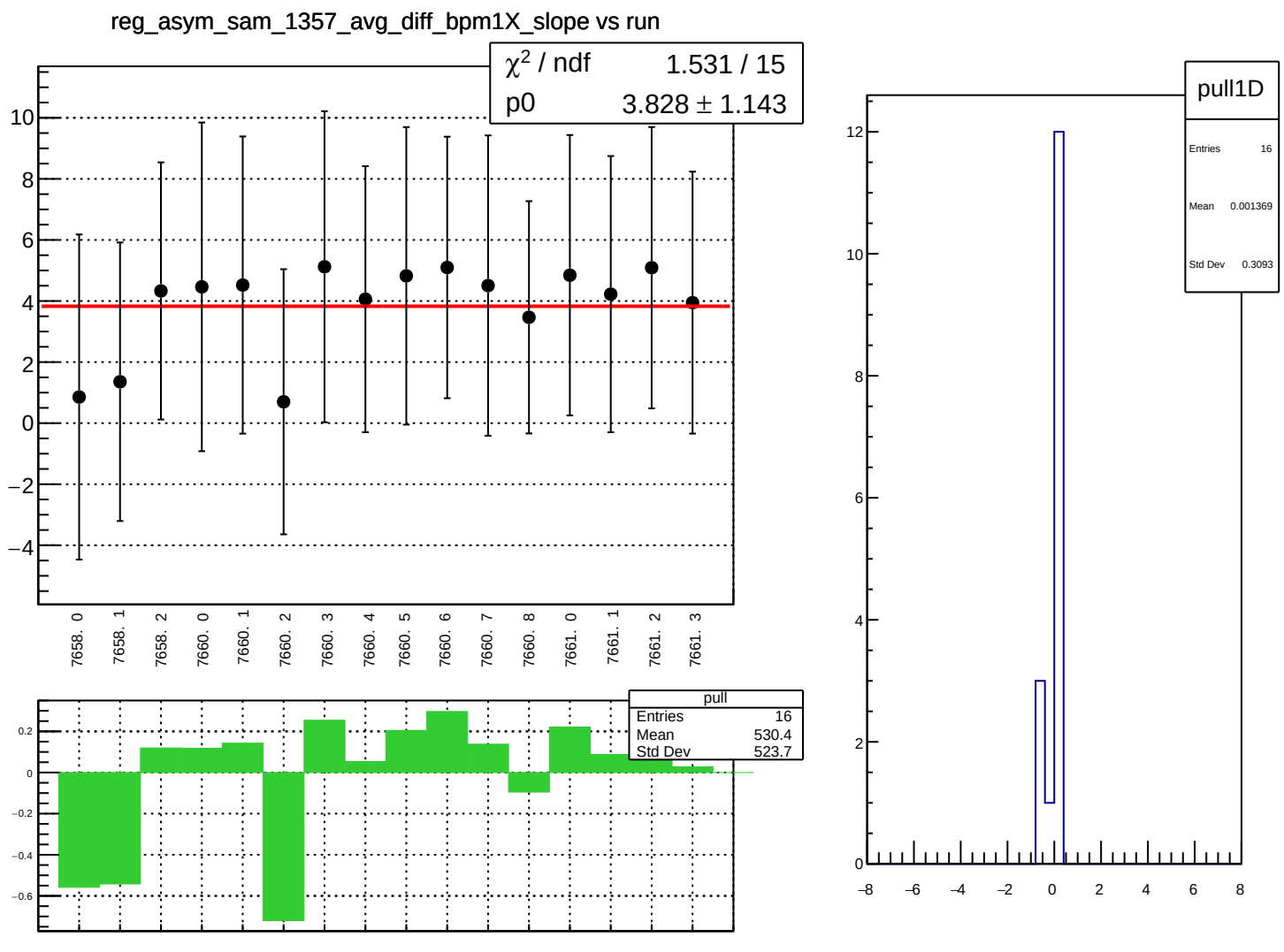

pull1D
Entries 16
Mean −0.0003237
Std Dev 1.514
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

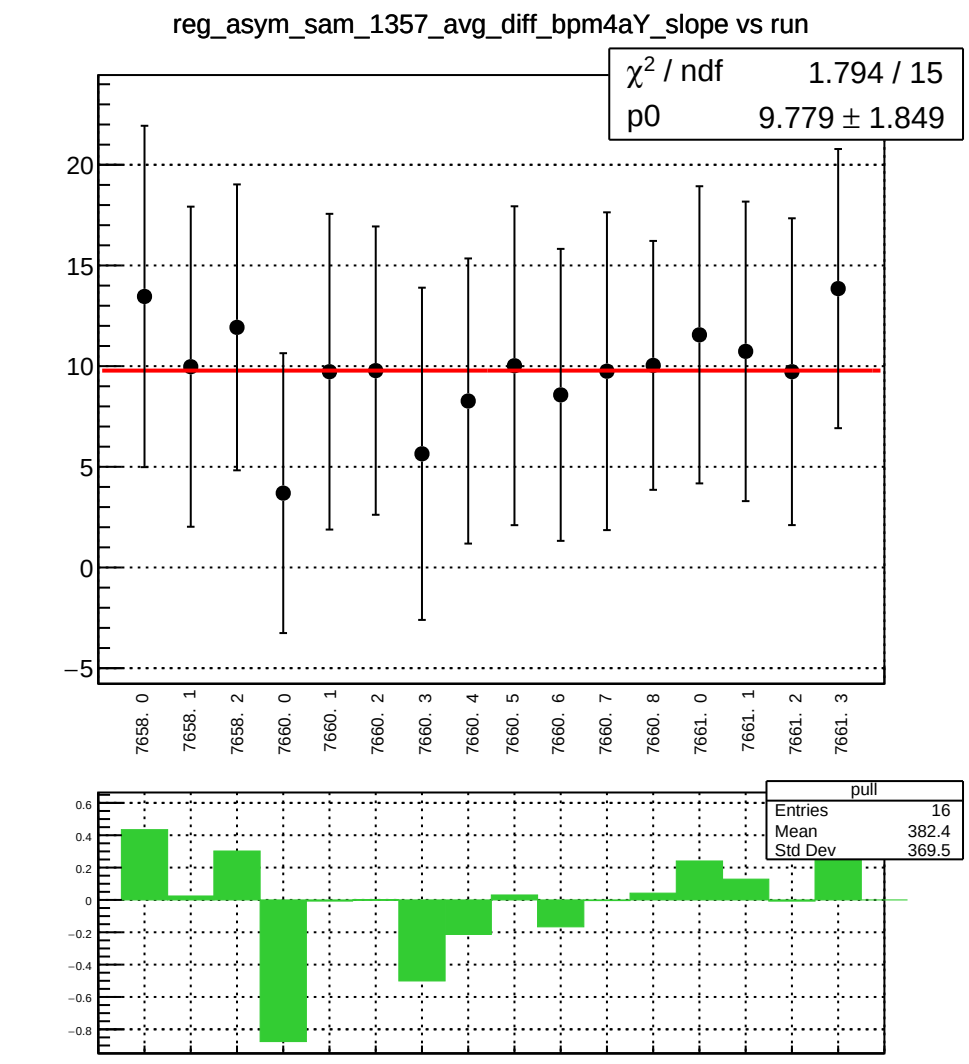

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.716 / 15
p0 −6.698 ± 0.2892
−3
−4
−5
−6
−7
−8
−9
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 105.5
Std Dev 96.34
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 16
Mean −0.01054
Std Dev 0.5976
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

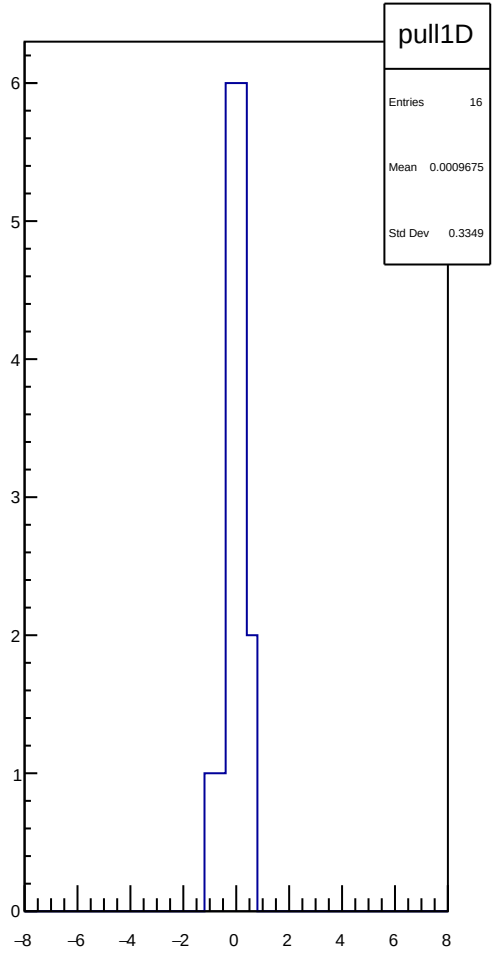

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 46.8 / 15
p0 19.59 ± 0.8312
40
35
30
25
20
15
10
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −255
Std Dev 259.4
6
5
4
3
2
1
0
−1
−2

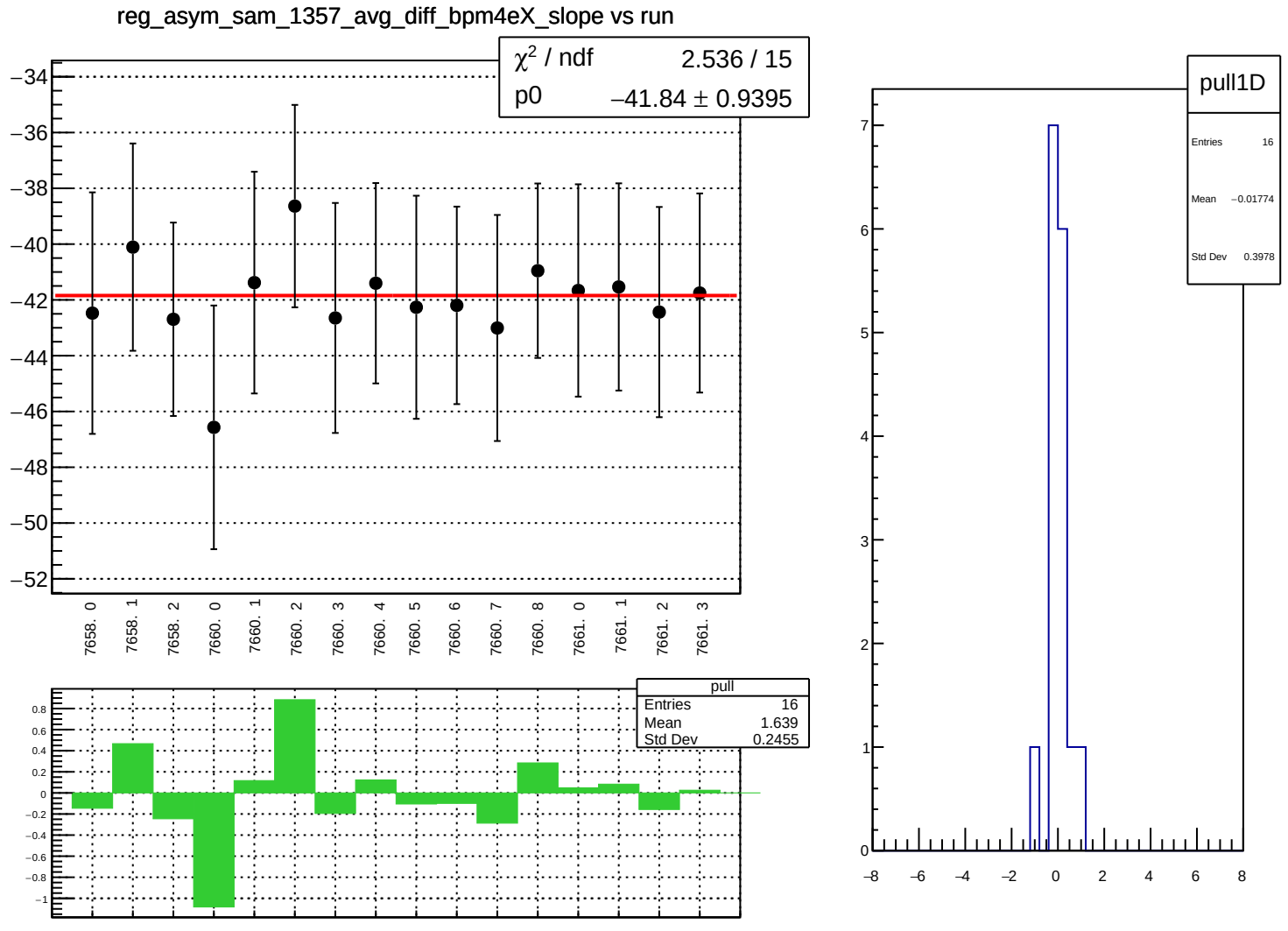

pull1D
Entries 16
Mean 0.006366
Std Dev 1.71
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

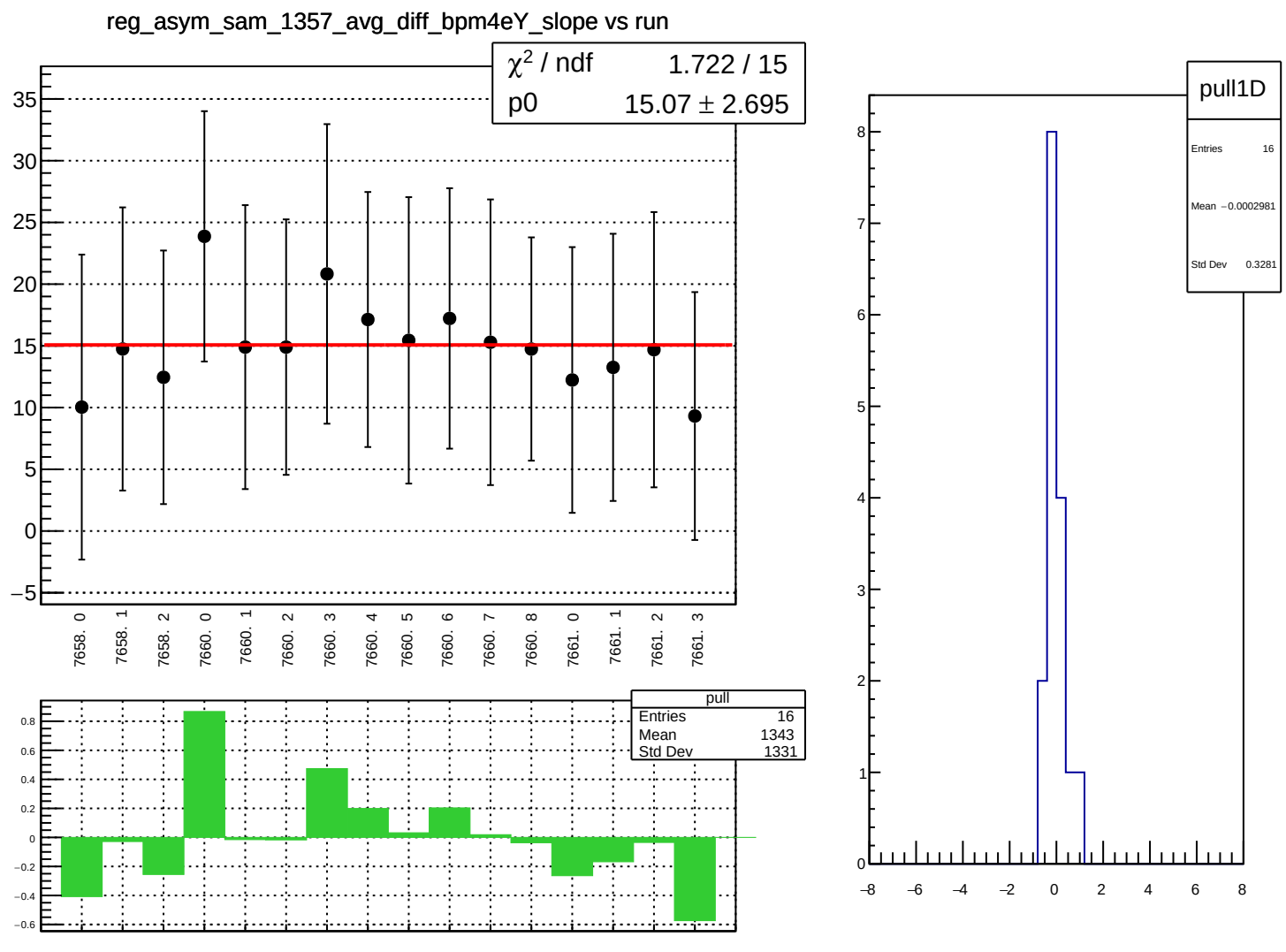

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 4.618 / 15
p0 0.159 ± 0.04617
0.6
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 11.55
Std Dev 4.972
0.5
0
−0.5
−1
−1.5
pull1D
Entries 16
Mean 0.0793
Std Dev 0.5314
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

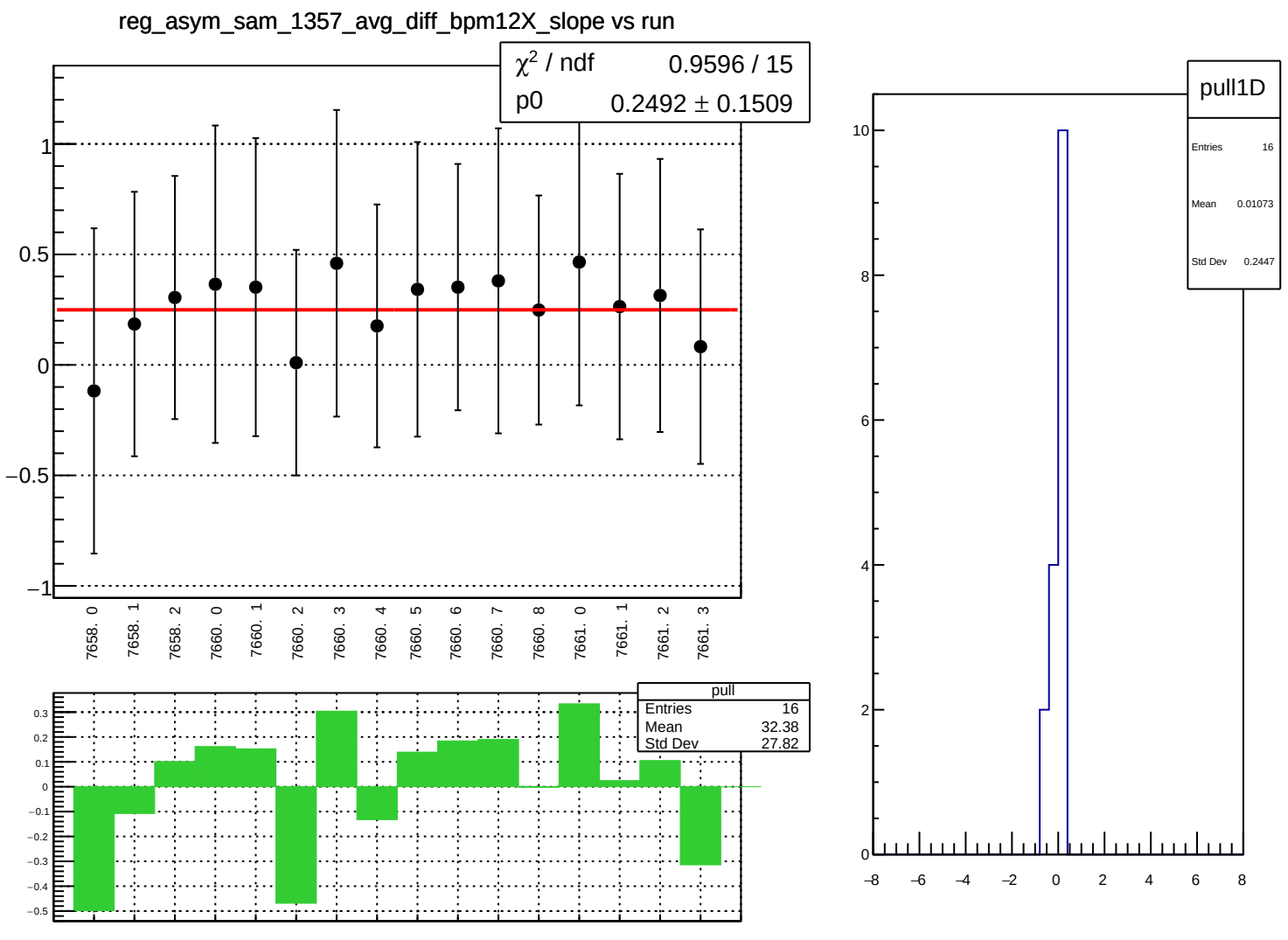

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 1.531 / 15
p0 3.828 ± 1.143
10
8
6
4
2
0
−2
−4
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 530.4
Std Dev 523.7
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 16
Mean 0.001369
Std Dev 0.3093
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

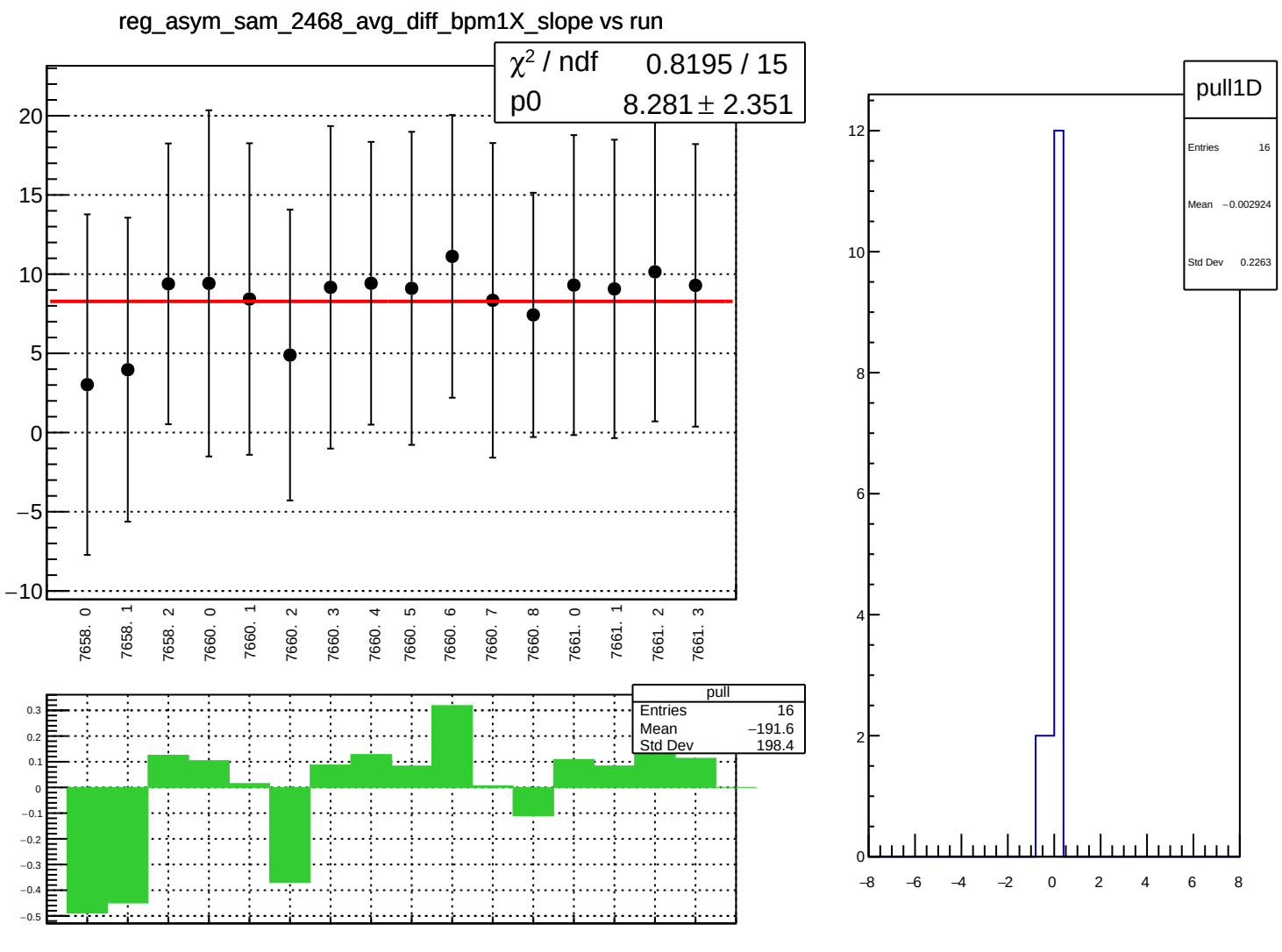

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.794 / 15
p0 9.779 ± 1.849
20
15
10
5
0
−5
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 382.4
Std Dev 369.5
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

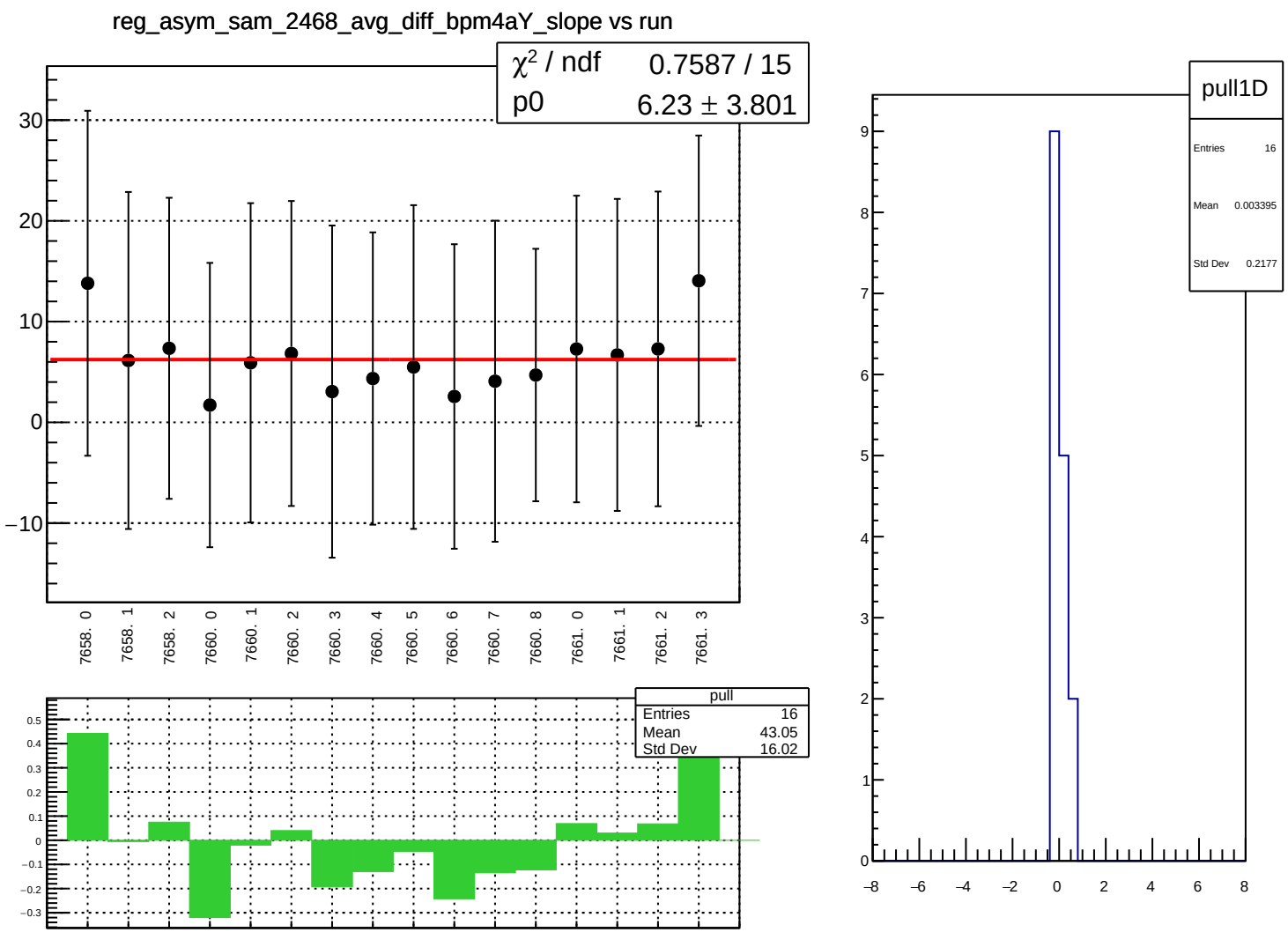

pull1D
Entries 16
Mean 0.0009675
Std Dev 0.3349
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

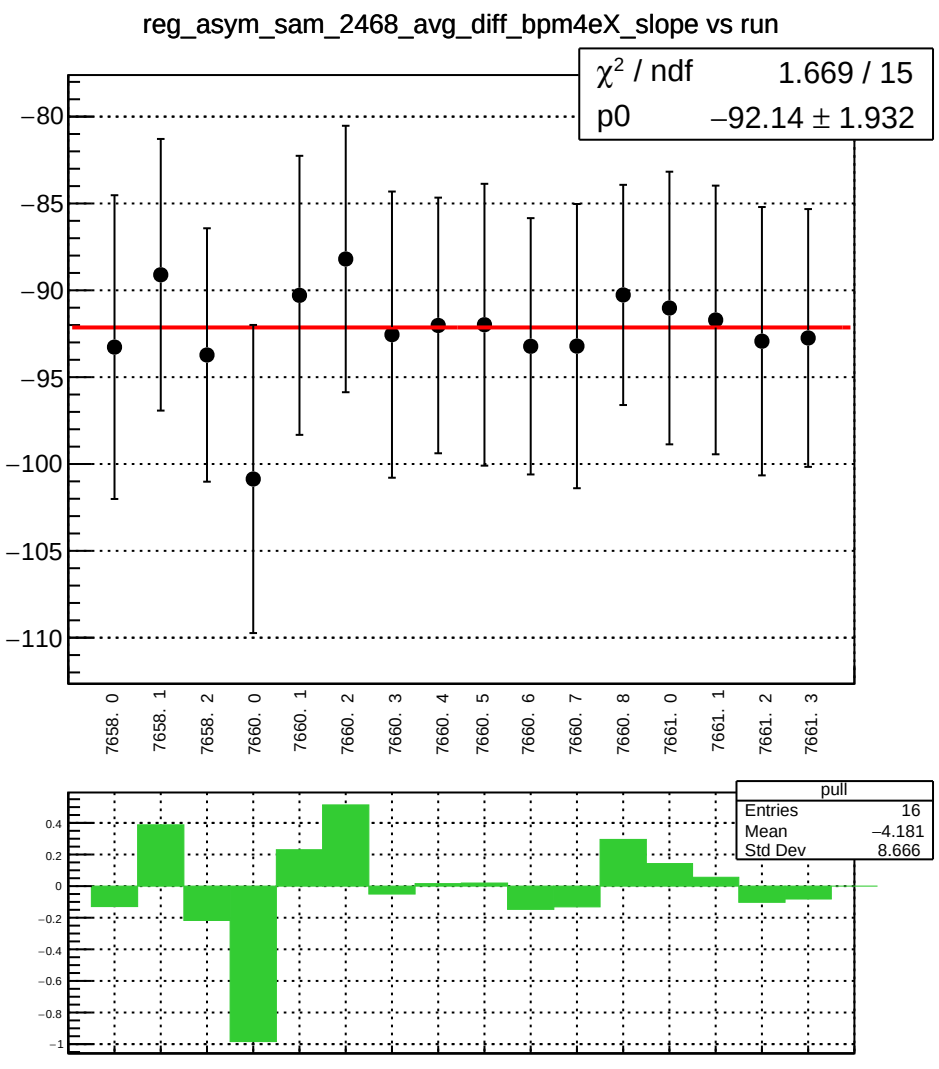

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.536 / 15
p0 −41.84 ± 0.9395
−34
−36
−38
−40
−42
−44
−46
−48
−50
−52
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 1.639
Std Dev 0.2455
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 16
Mean −0.01774
Std Dev 0.3978
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

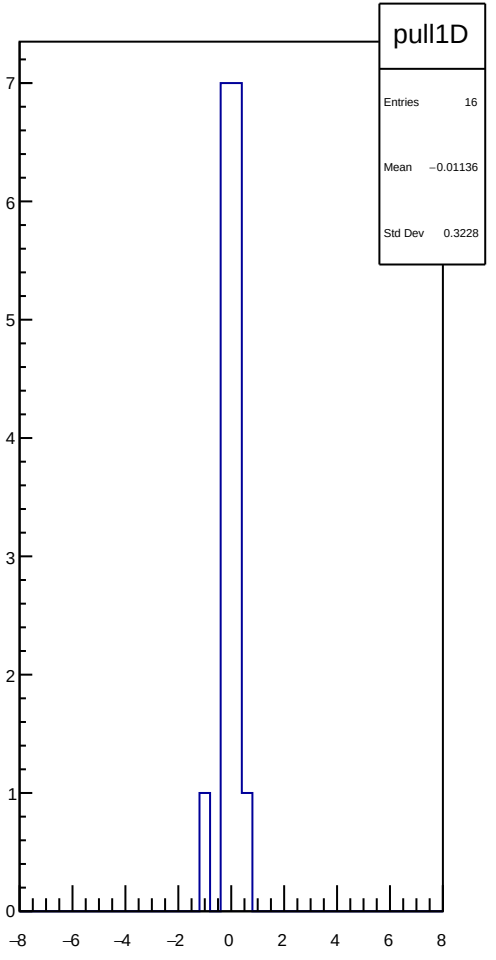

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.722 / 15
p0 15.07 ± 2.695
35
30
25
20
15
10
5
0
−5
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 1343
Std Dev 1331
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 16
Mean −0.0002981
Std Dev 0.3281
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

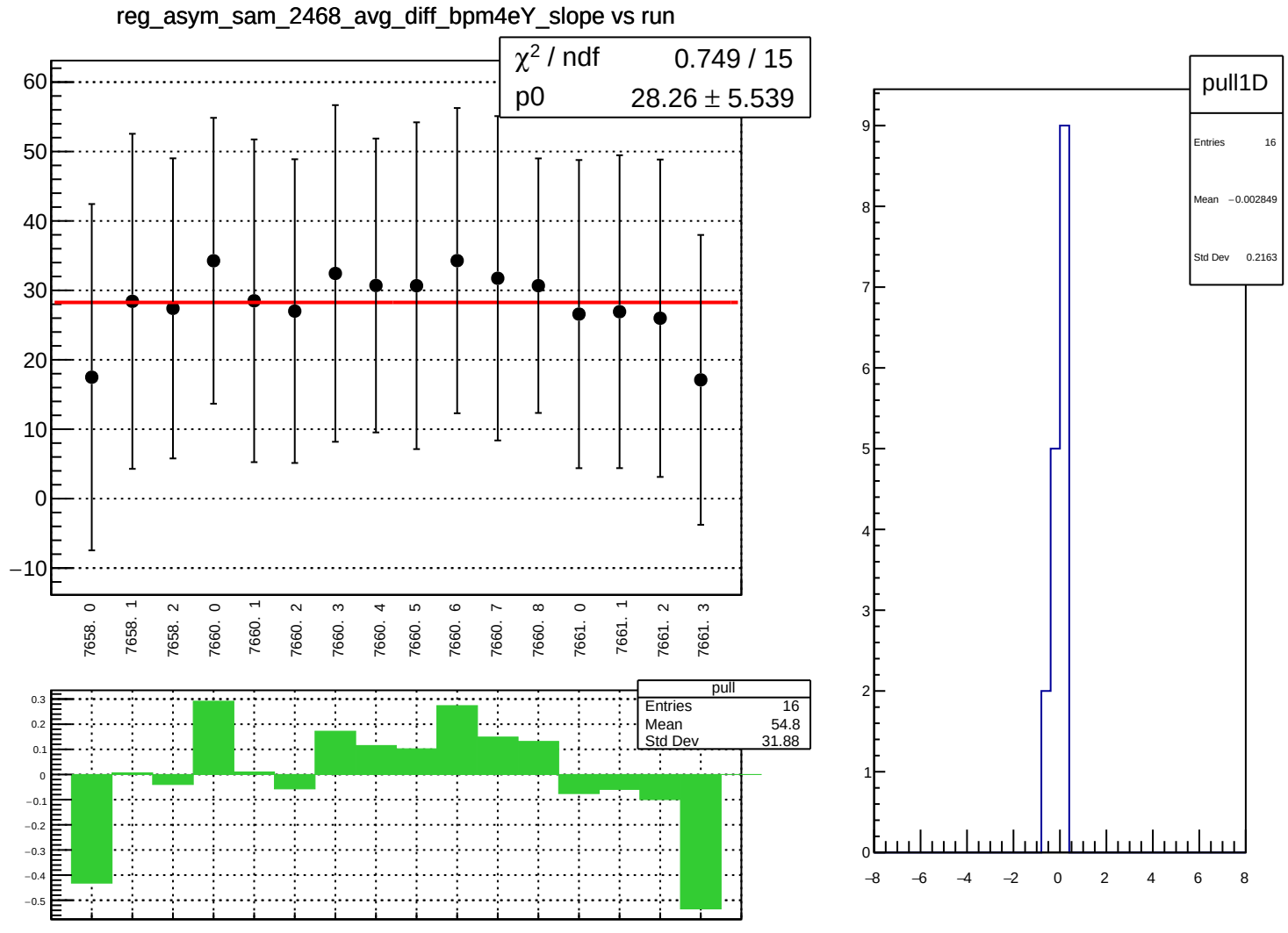

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 0.9596 / 15
p0 0.2492 ± 0.1509
1
0.5
0
−0.5
−1
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 32.38
Std Dev 27.82
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
pull1D
Entries 16
Mean 0.01073
Std Dev 0.2447
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

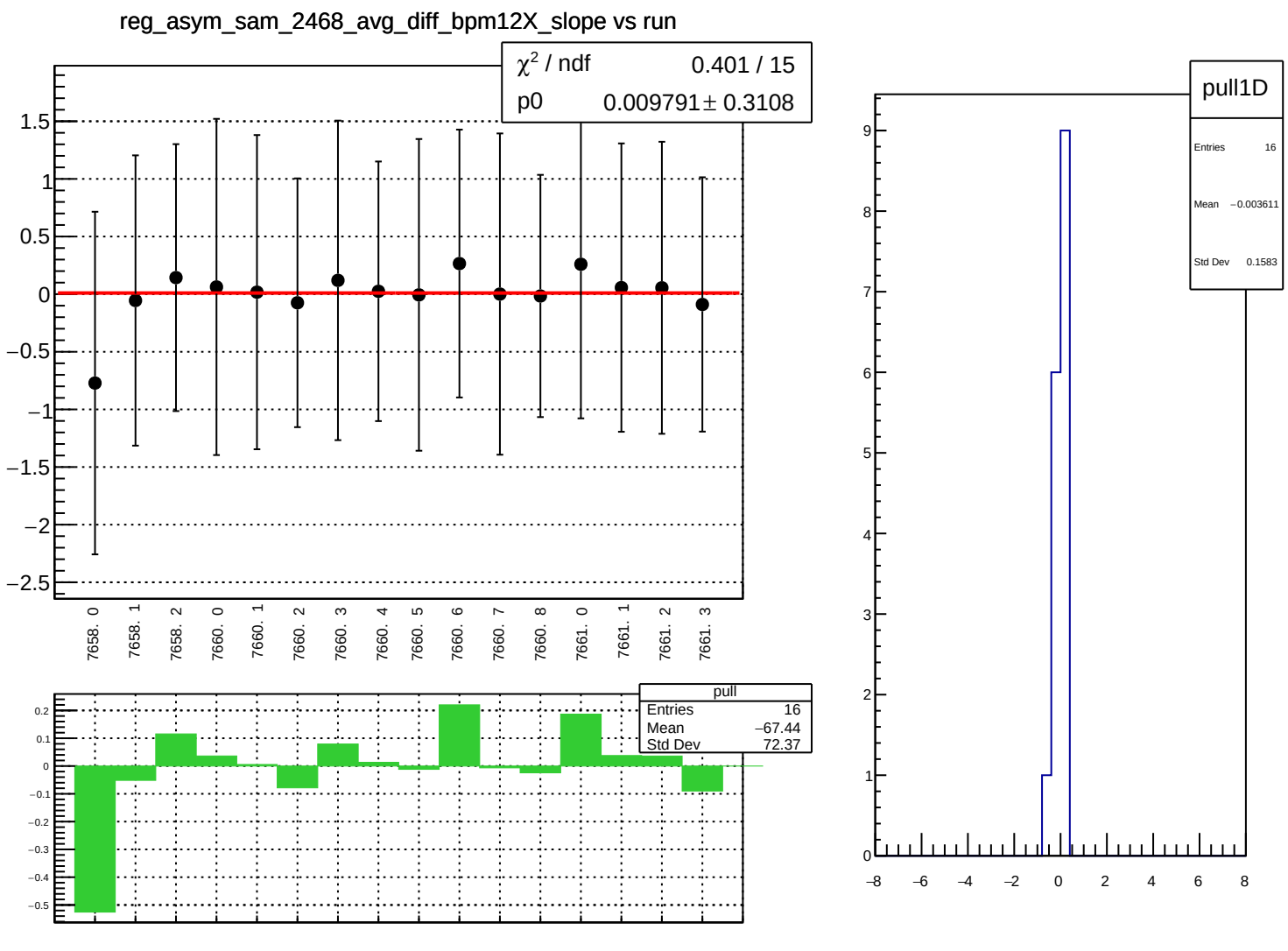

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 0.8195 / 15
p0 8.281 ± 2.351
20
15
10
5
0
−5
−10
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −191.6
Std Dev 198.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
pull1D
Entries 16
Mean −0.002924
Std Dev 0.2263
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

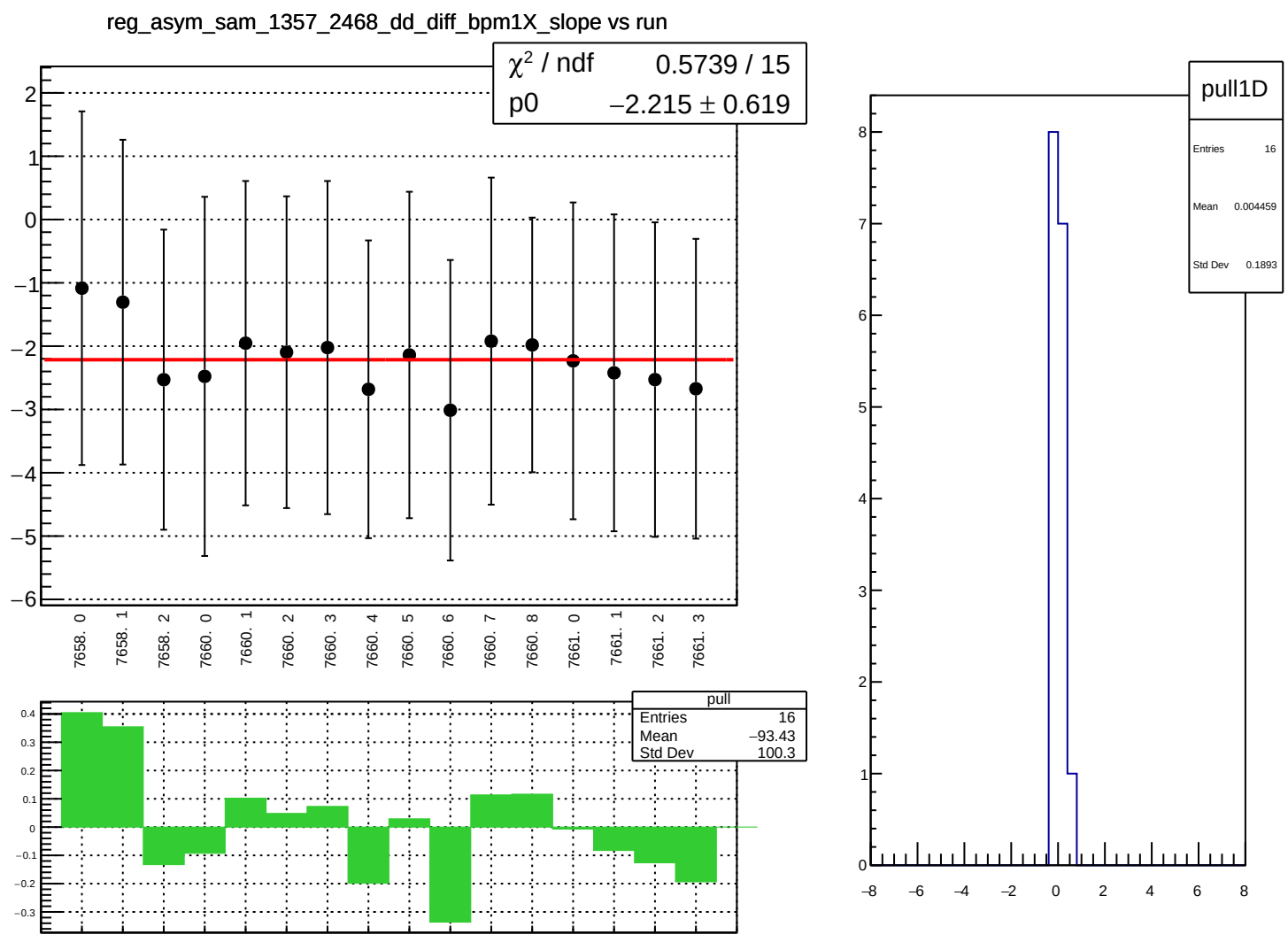

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.7587 / 15
p0 6.23 ± 3.801
30
20
10
0
−10
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 43.05
Std Dev 16.02
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 16
Mean 0.003395
Std Dev 0.2177
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

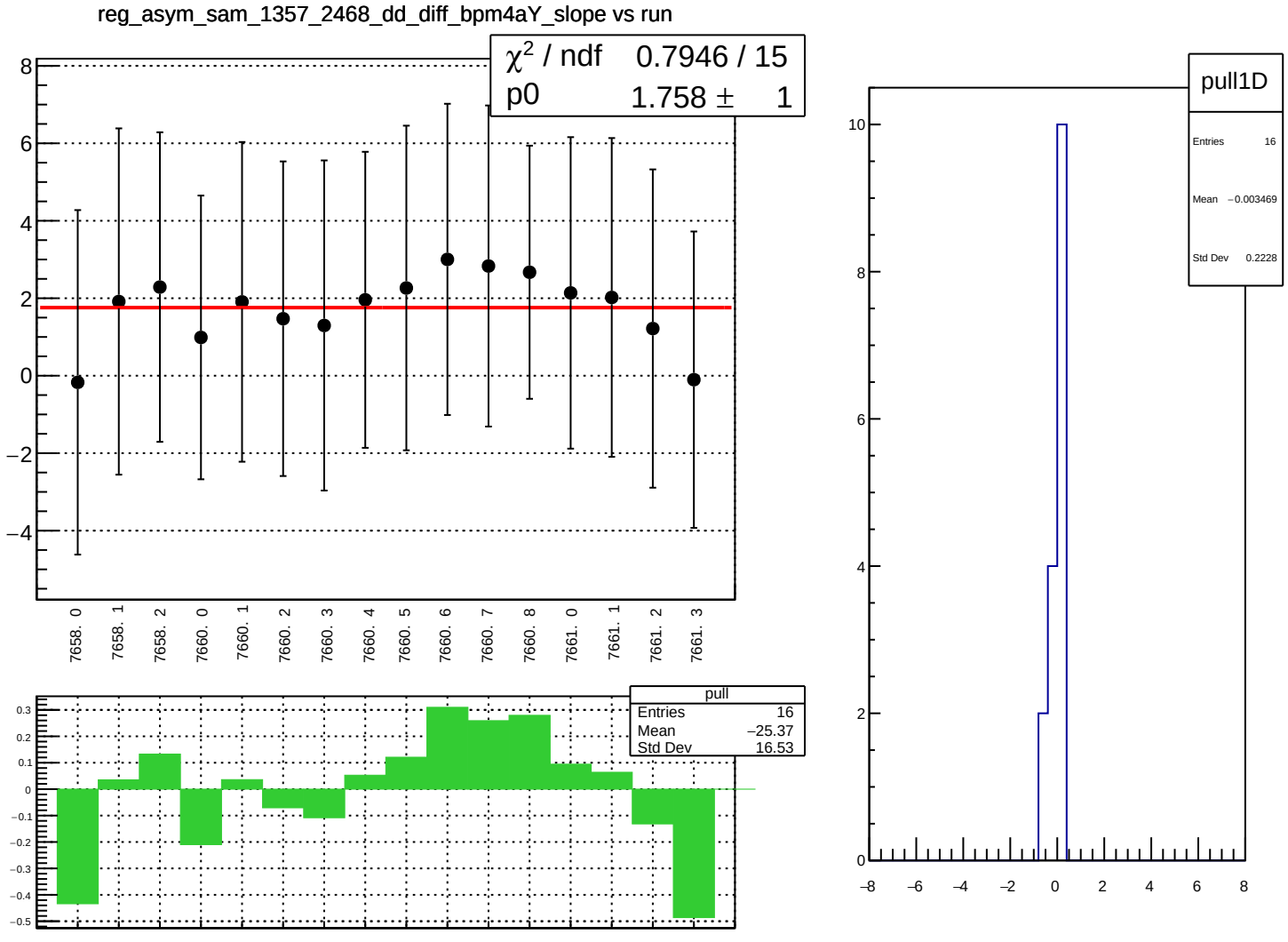

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.669 / 15
p0 −92.14 ± 1.932
−80
−85
−90
−95
−100
−105
−110
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −4.181
Std Dev 8.666
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

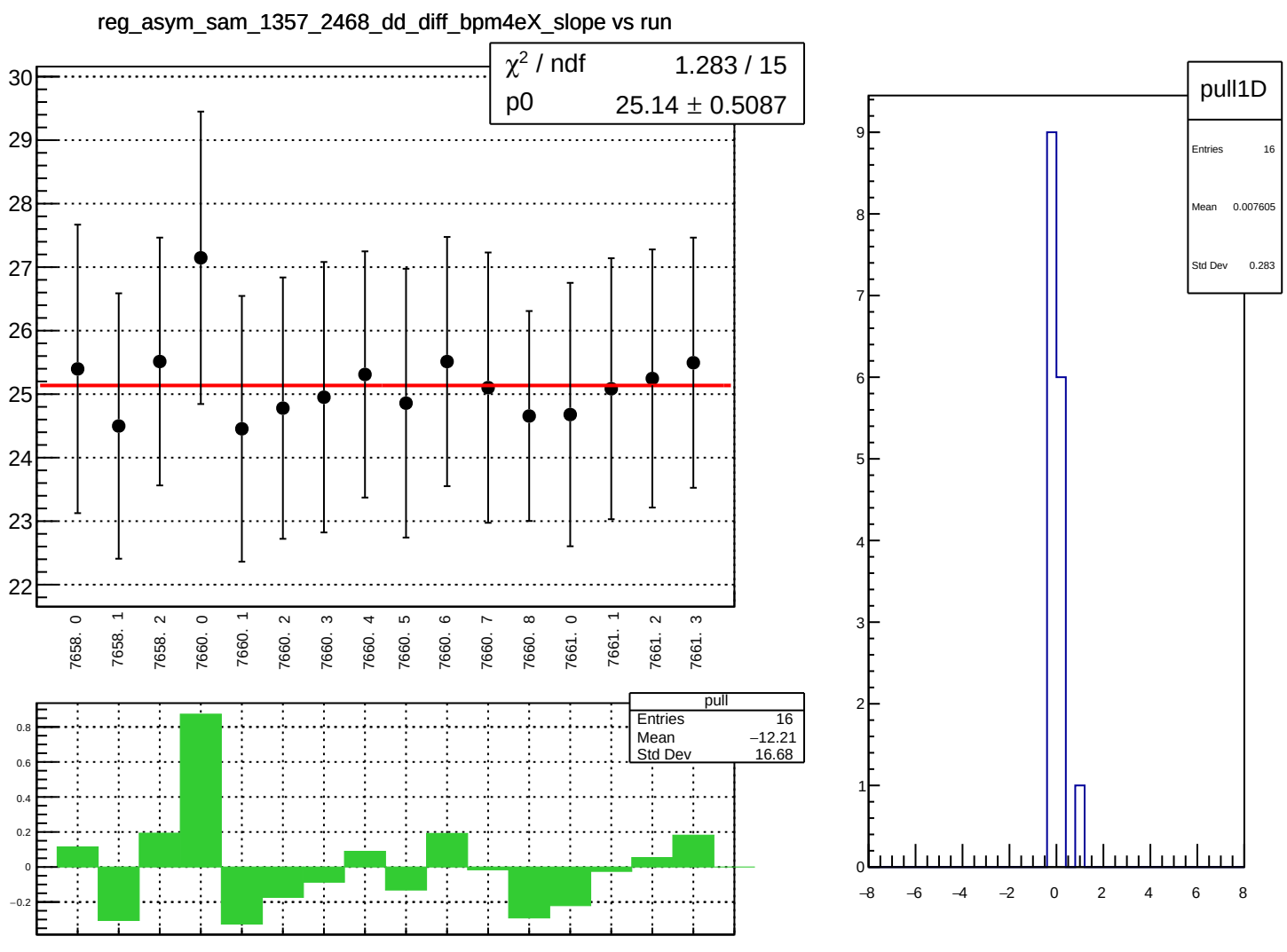

pull1D
Entries 16
Mean −0.01136
Std Dev 0.3228
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

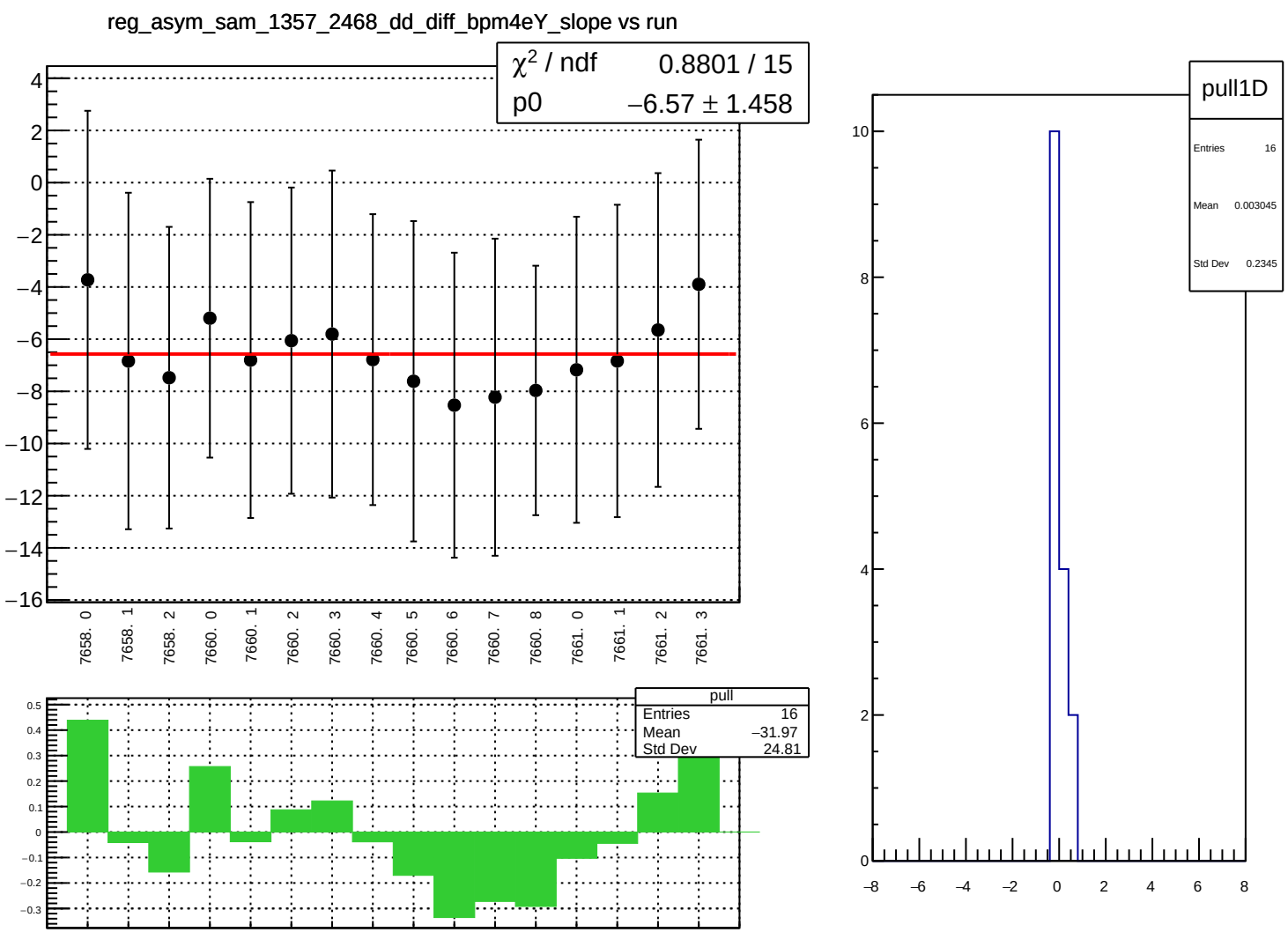

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.749 / 15
p0 28.26 ± 5.539
60
50
40
30
20
10
0
−10
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 54.8
Std Dev 31.88
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
pull1D
Entries 16
Mean −0.002849
Std Dev 0.2163
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

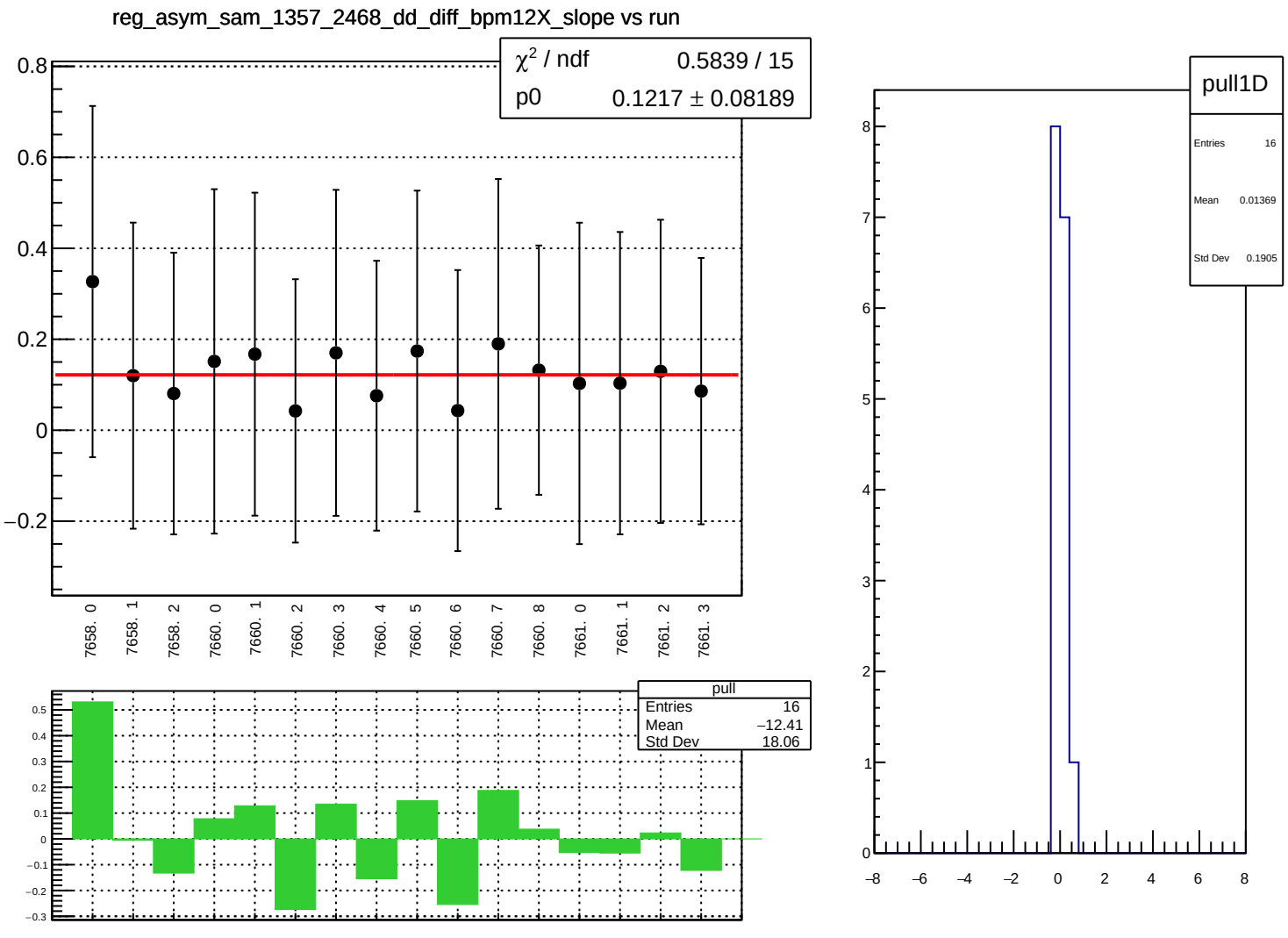

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 0.401 / 15
p0 0.009791 ± 0.3108
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −67.44
Std Dev 72.37
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
pull1D
Entries 16
Mean −0.003611
Std Dev 0.1583
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

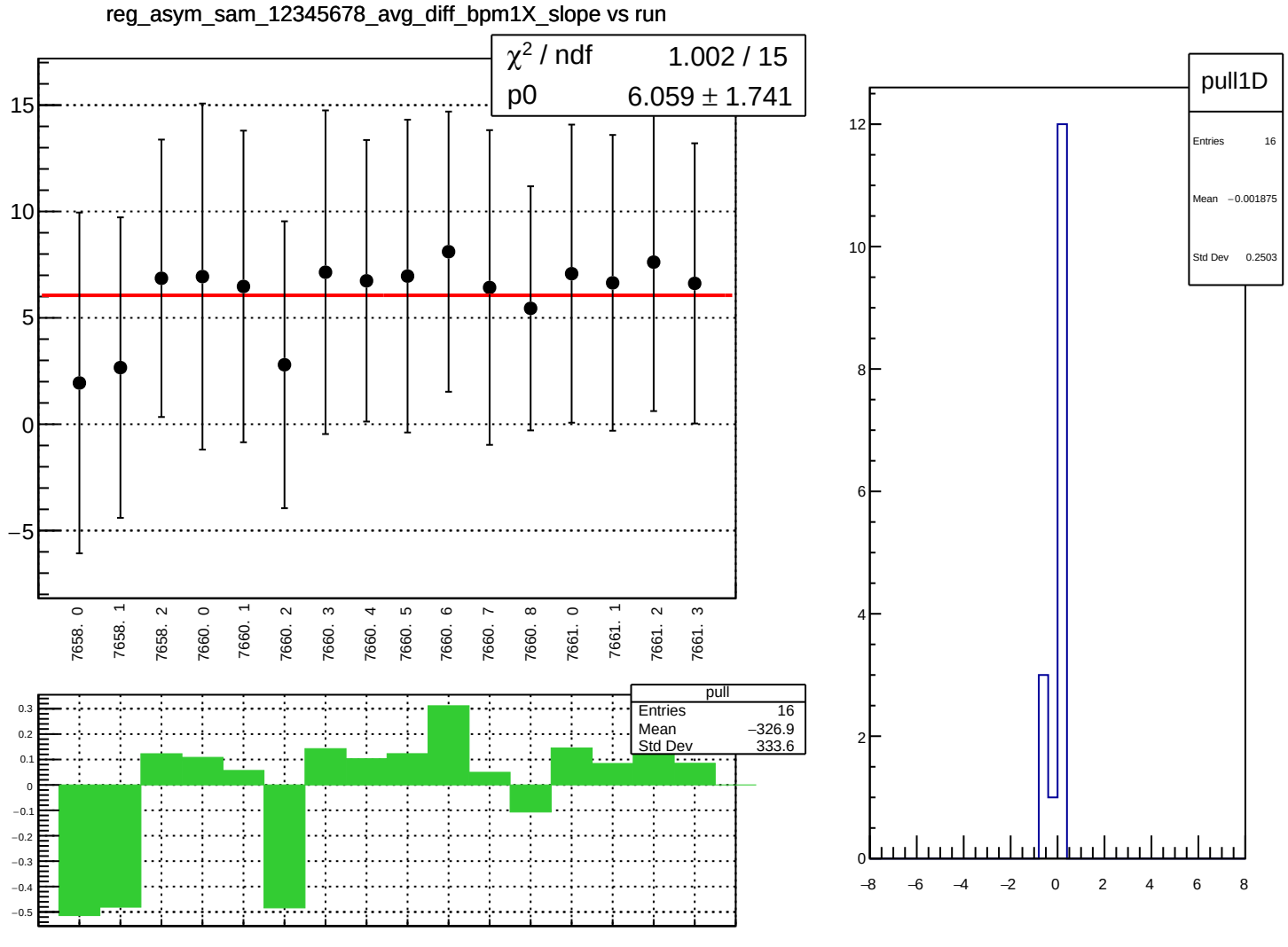

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 0.5739 / 15
p0 −2.215 ± 0.619
2
1
0
−1
−2
−3
−4
−5
−6
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −93.43
Std Dev 100.3
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 16
Mean 0.004459
Std Dev 0.1893
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_bpm4aY_slope vs run
χ² / ndf 0.7946 / 15
p0 1.758 ± 1
8
6
4
2
0
−2
−4
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −25.37
Std Dev 16.53
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
pull1D
Entries 16
Mean −0.003469
Std Dev 0.2228
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 1.283 / 15
p0 25.14 ± 0.5087
30
29
28
27
26
25
24
23
22
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −12.21
Std Dev 16.68
0.8
0.6
0.4
0.2
0
−0.2
pull1D
Entries 16
Mean 0.007605
Std Dev 0.283
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 0.8801 / 15
p0 −6.57 ± 1.458
4
2
0
−2
−4
−6
−8
−10
−12
−14
−16
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −31.97
Std Dev 24.81
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 16
Mean 0.003045
Std Dev 0.2345
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 0.5839 / 15
p0 0.1217 ± 0.08189
0.8
0.6
0.4
0.2
0
−0.2
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −12.41
Std Dev 18.06
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 16
Mean 0.01369
Std Dev 0.1905
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 1.002 / 15
p0 6.059 ± 1.741
15
10
5
0
−5
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −326.9
Std Dev 333.6
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
pull1D
Entries 16
Mean −0.001875
Std Dev 0.2503
12
10
8
6
4
2
0
−8
−6
−4
−2
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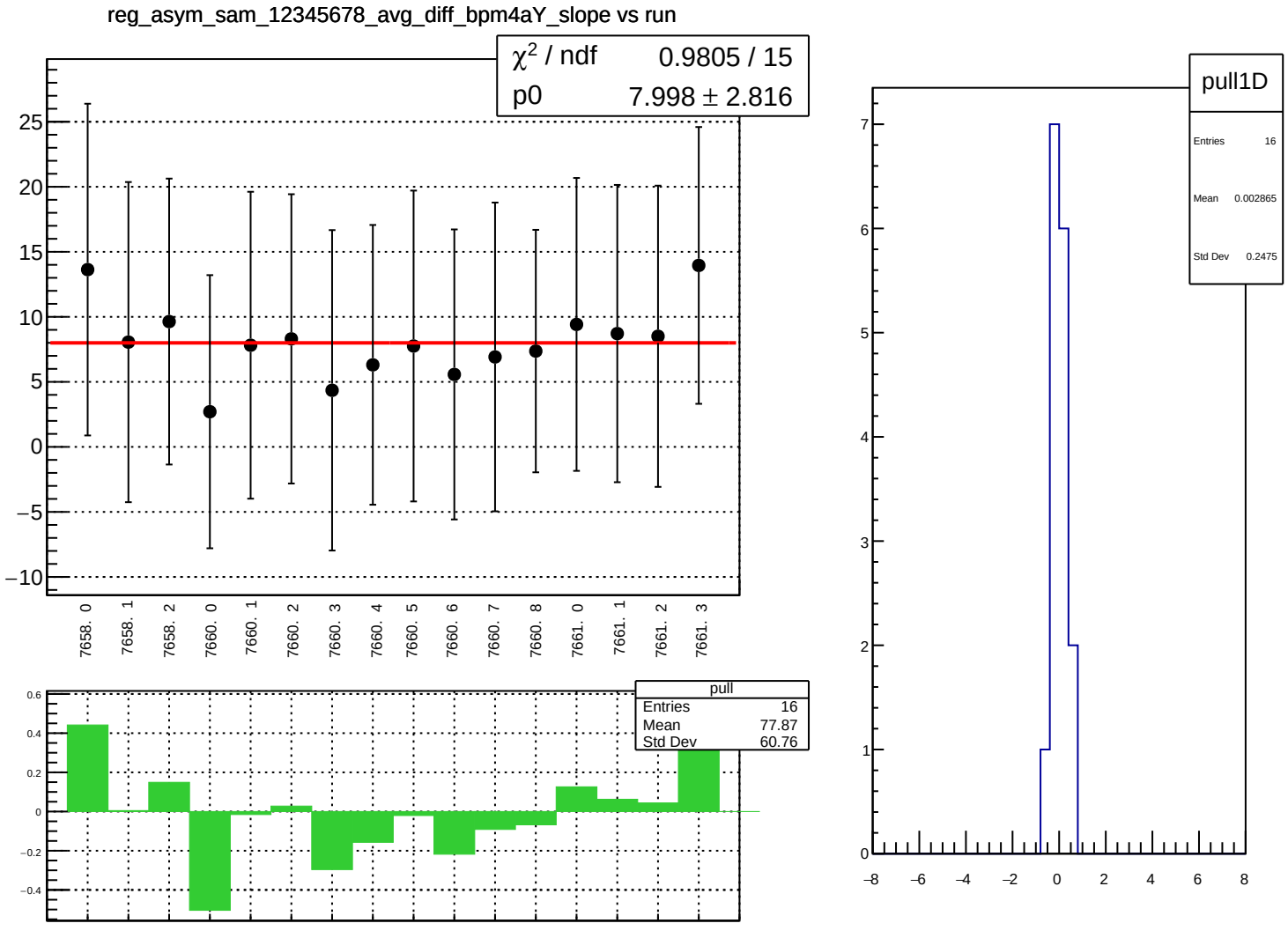
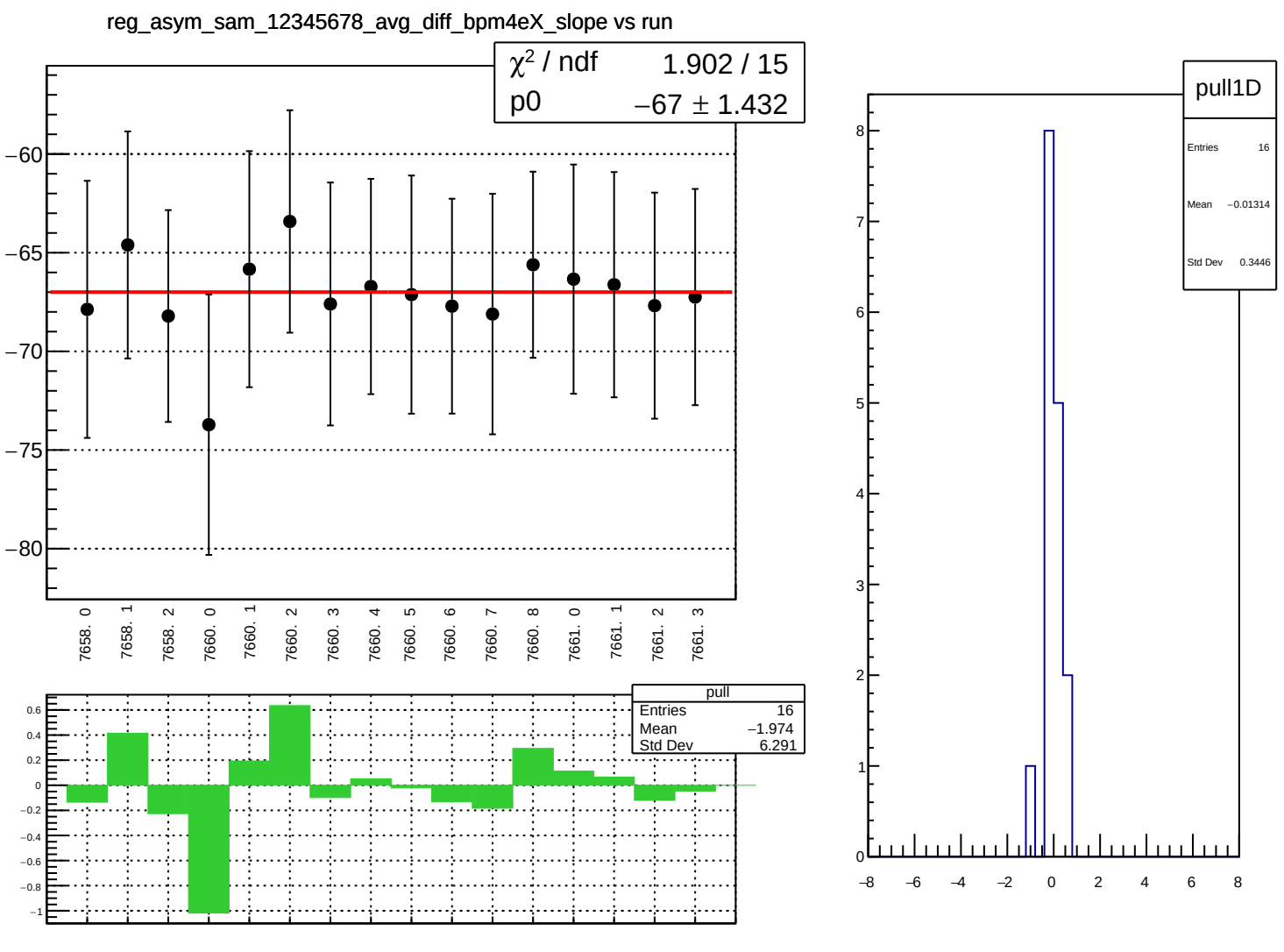
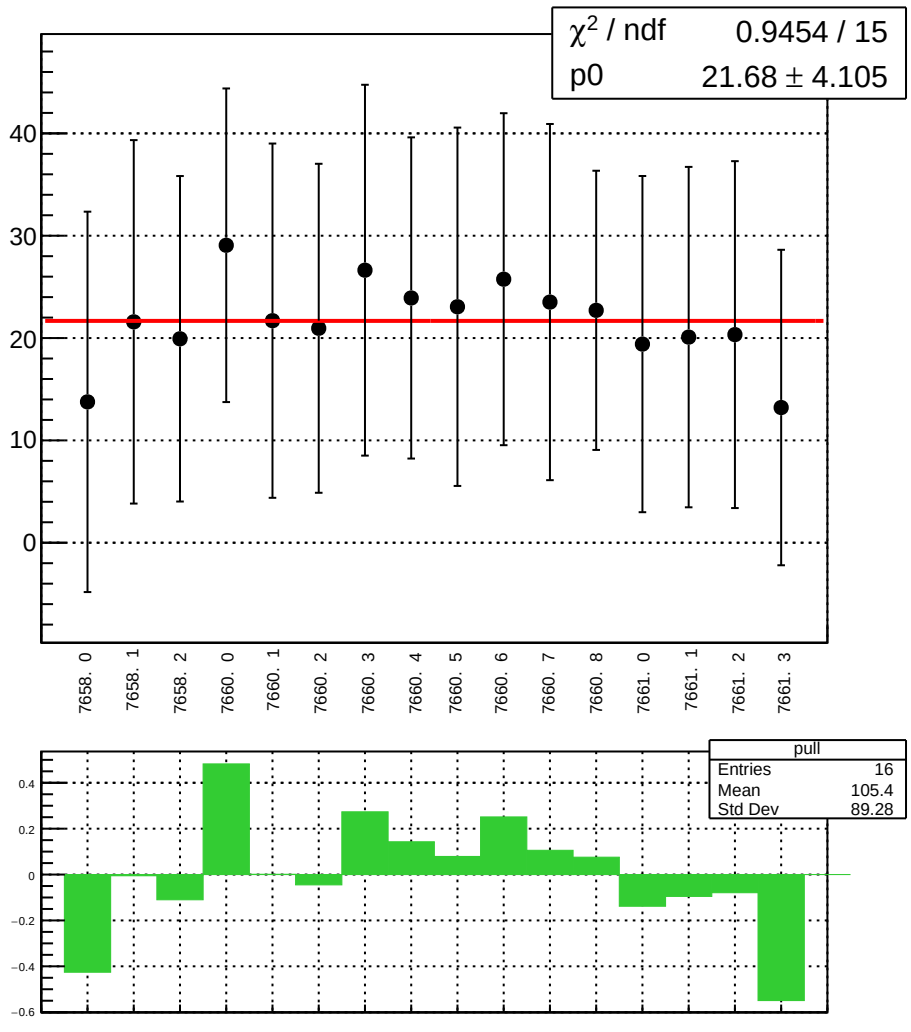
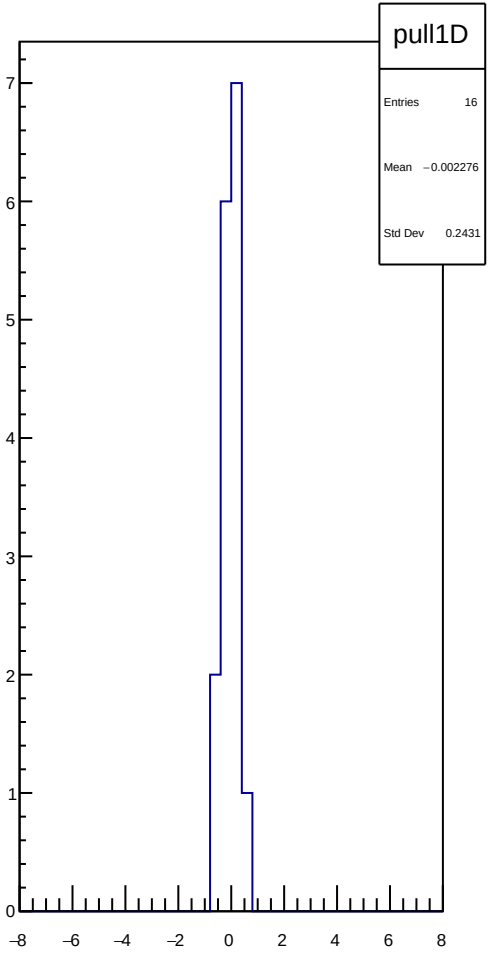
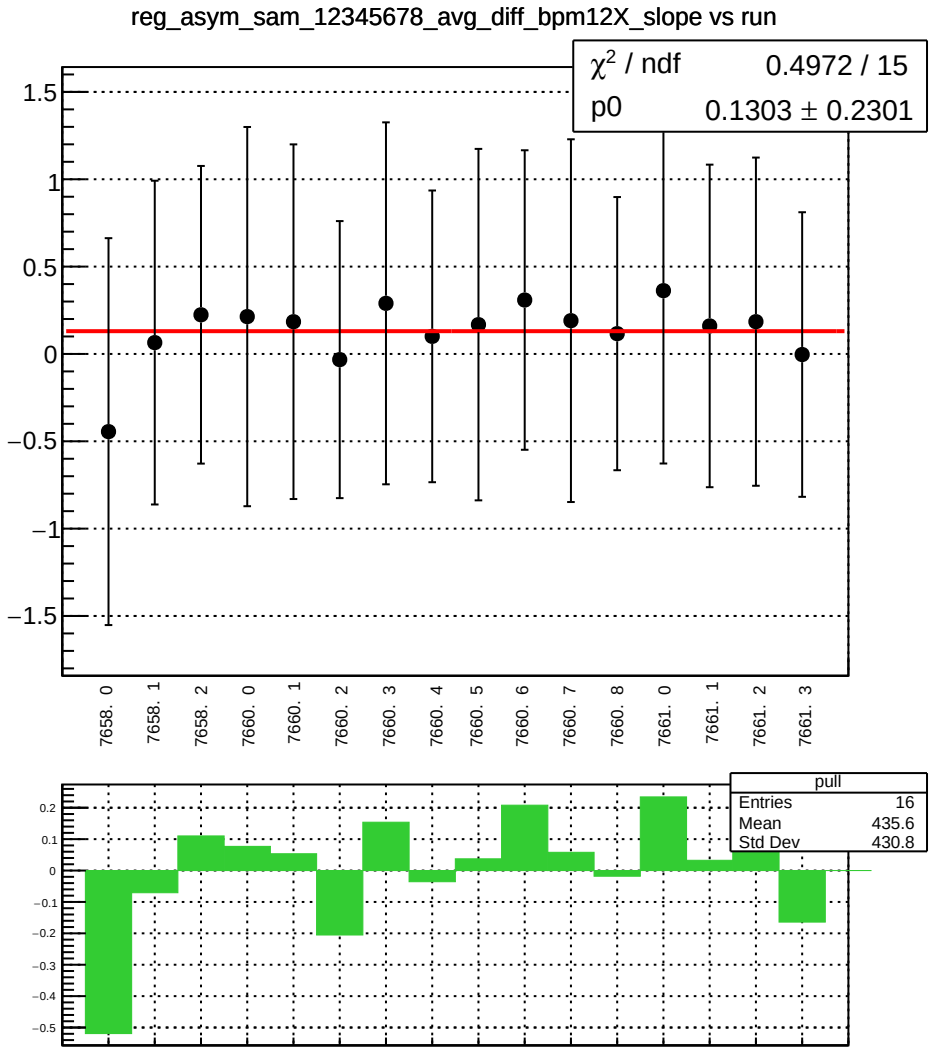
2
4
6
8

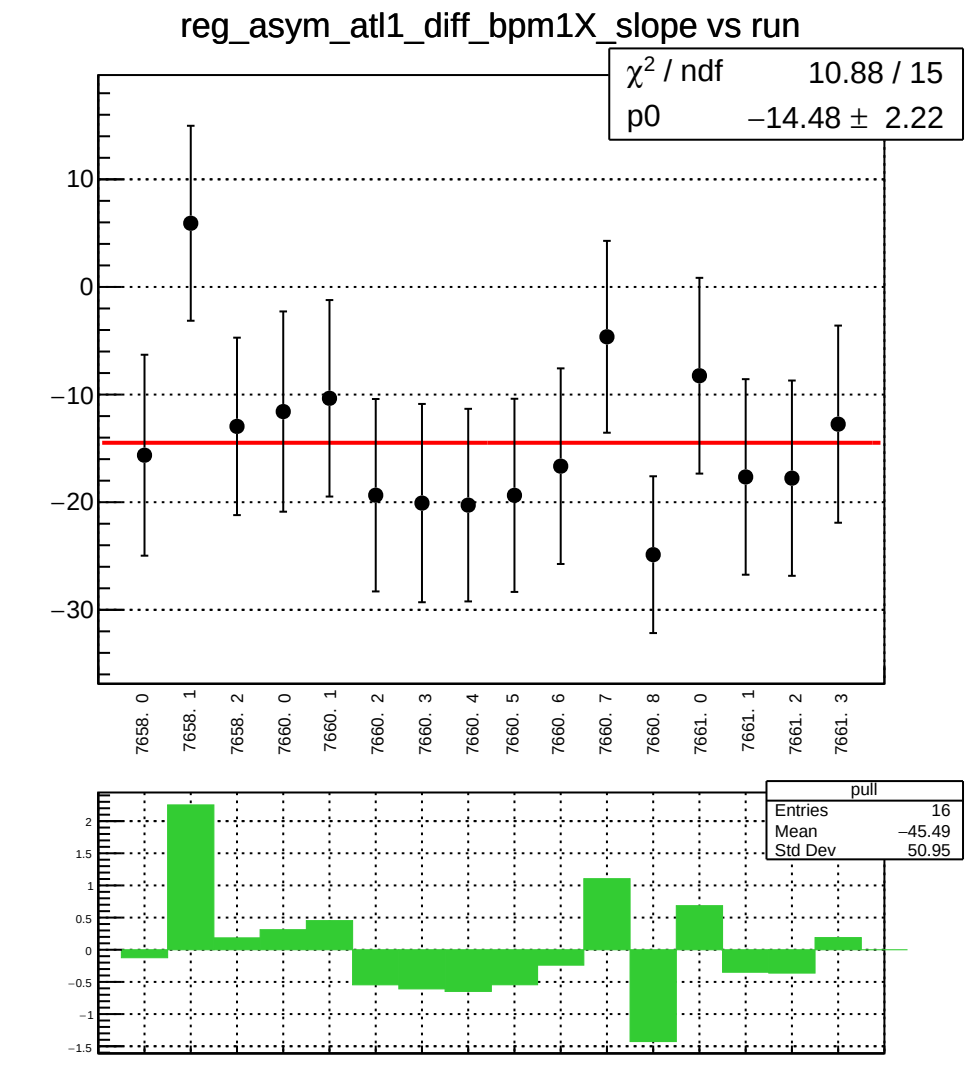

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.9805 / 15
p0 7.998 ± 2.816
25
20
15
10
5
0
−5
−10
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 77.87
Std Dev 60.76
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 16
Mean 0.002865
Std Dev 0.2475
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

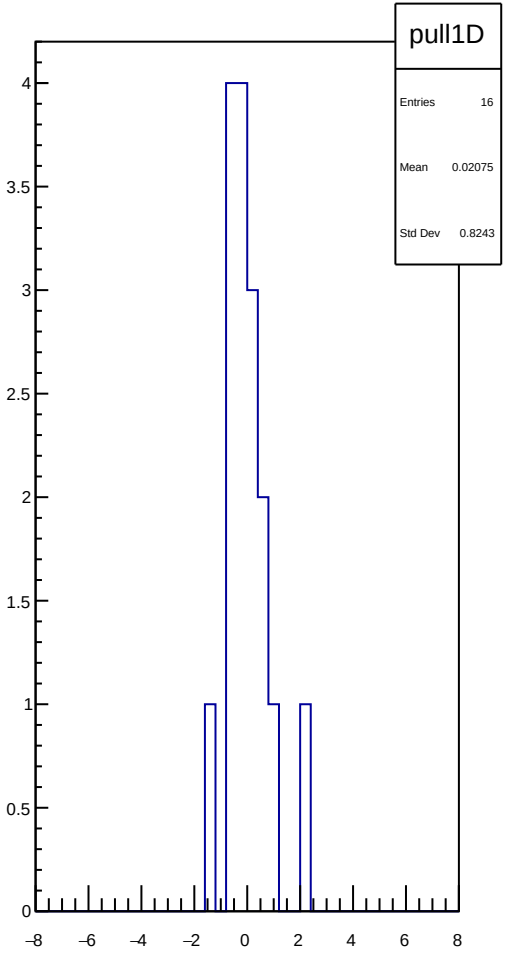

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.902 / 15
p0 −67 ± 1.432
−60
−65
−70
−75
−80
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −1.974
Std Dev 6.291
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 16
Mean −0.01314
Std Dev 0.3446
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

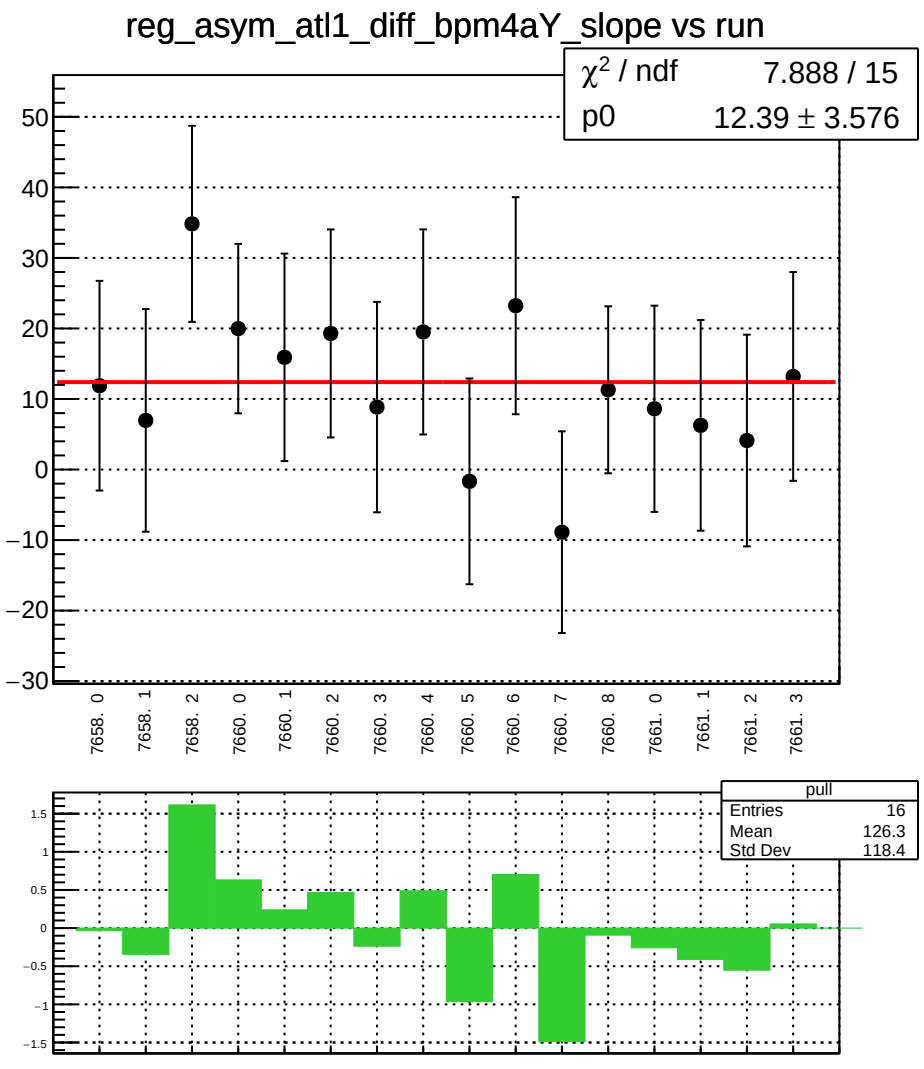

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.9454 / 15
p0 21.68 ± 4.105
40
30
20
10
0
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 105.4
Std Dev 89.28
0.4
0.2
0
−0.2
−0.4
−0.6

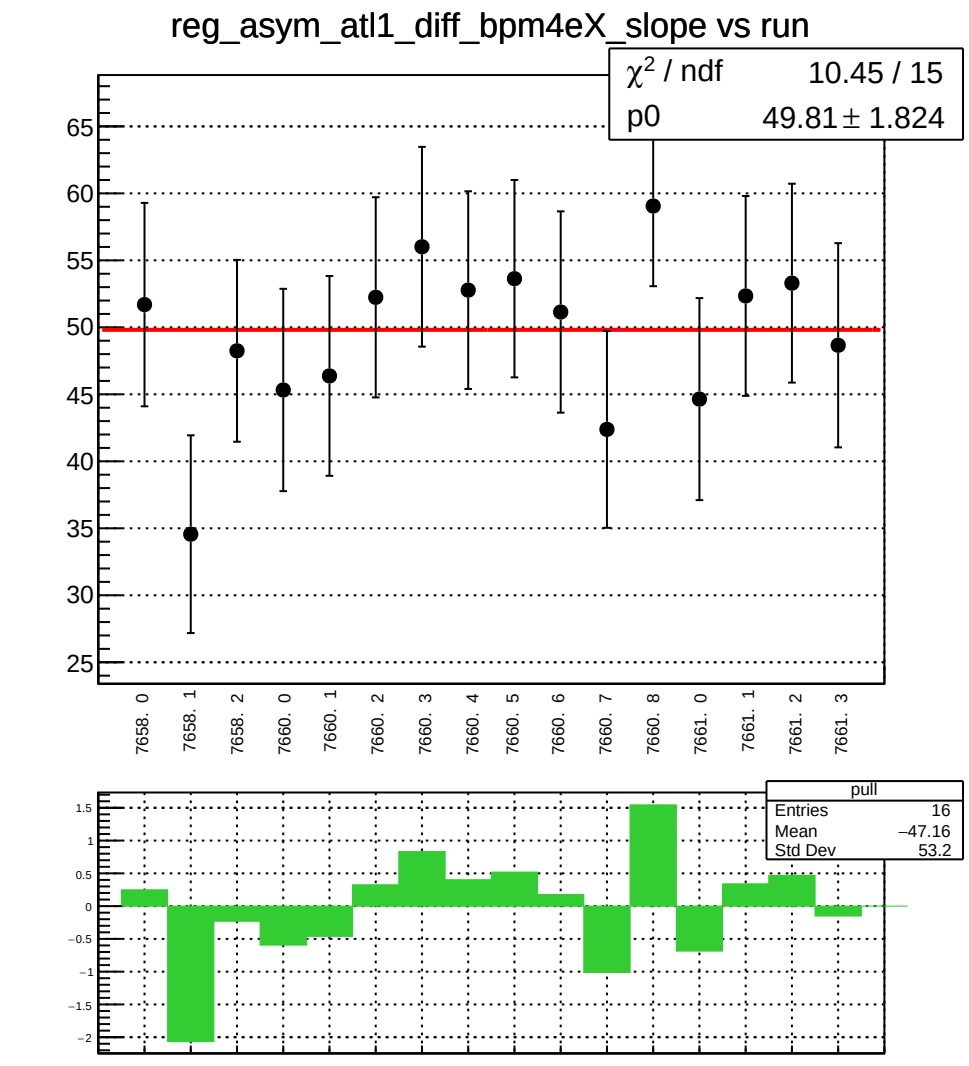

pull1D
Entries 16
Mean −0.002276
Std Dev 0.2431
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

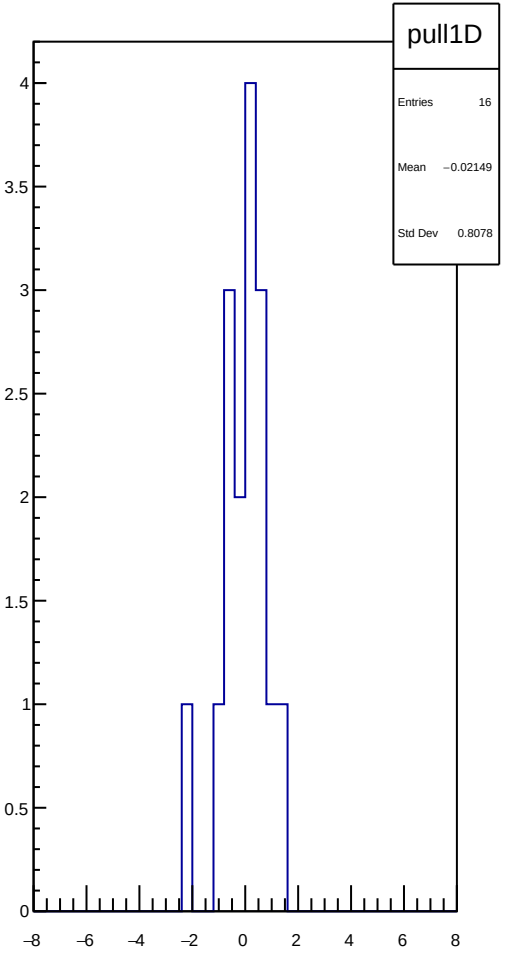

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 0.4972 / 15
p0 0.1303 ± 0.2301
1.5
1
0.5
0
−0.5
−1
−1.5
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 435.6
Std Dev 430.8
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
pull1D
Entries 16
Mean 0.0006294
Std Dev 0.1763
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

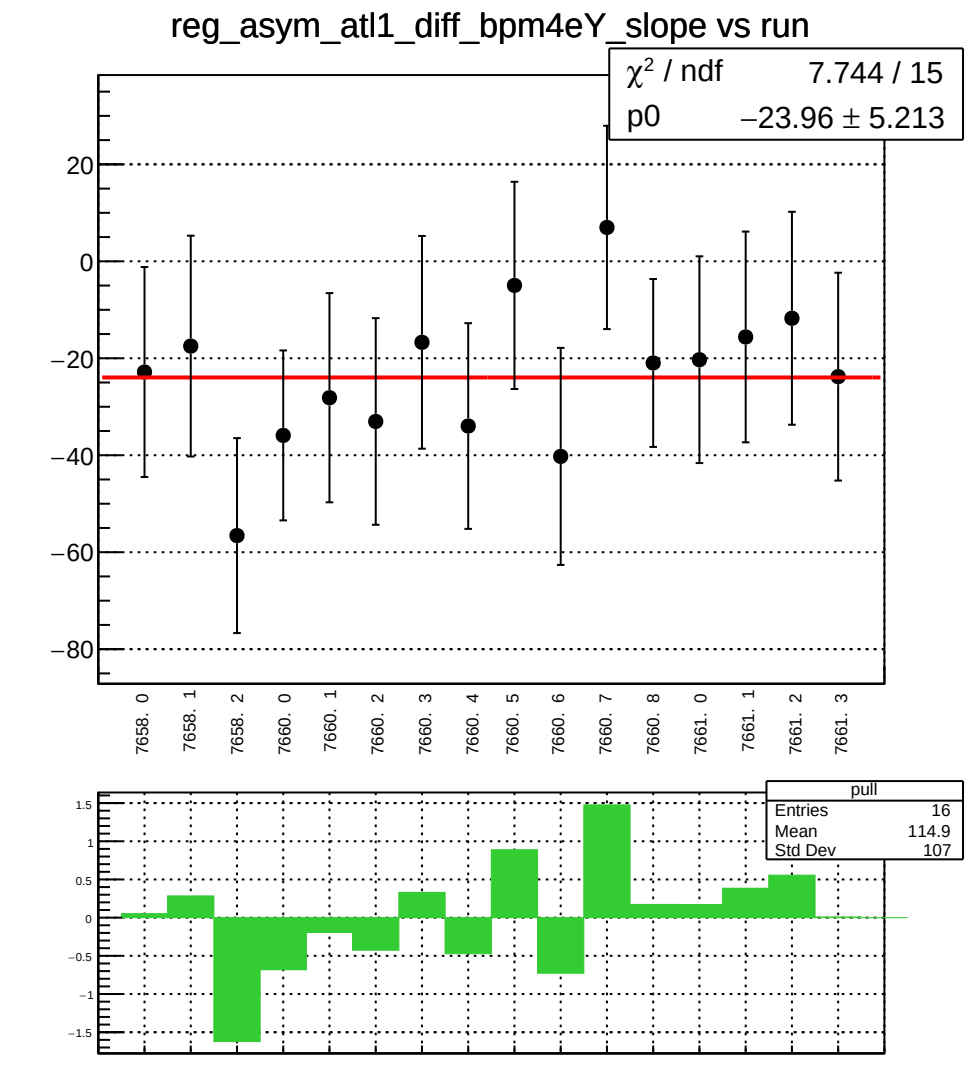

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 10.88 / 15
p0 −14.48 ± 2.22
10
0
−10
−20
−30
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −45.49
Std Dev 50.95
2
1.5
1
0.5
0
−0.5
−1
−1.5

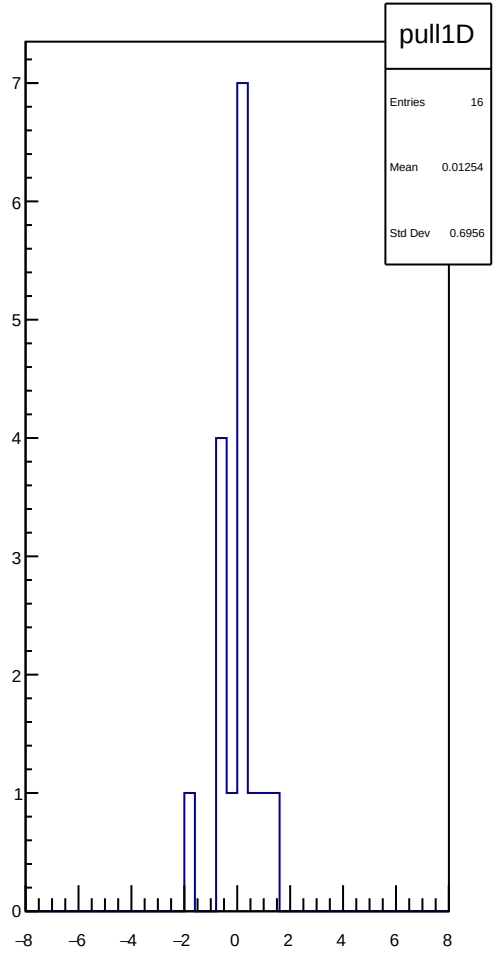

pull1D
Entries 16
Mean 0.02075
Std Dev 0.8243
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

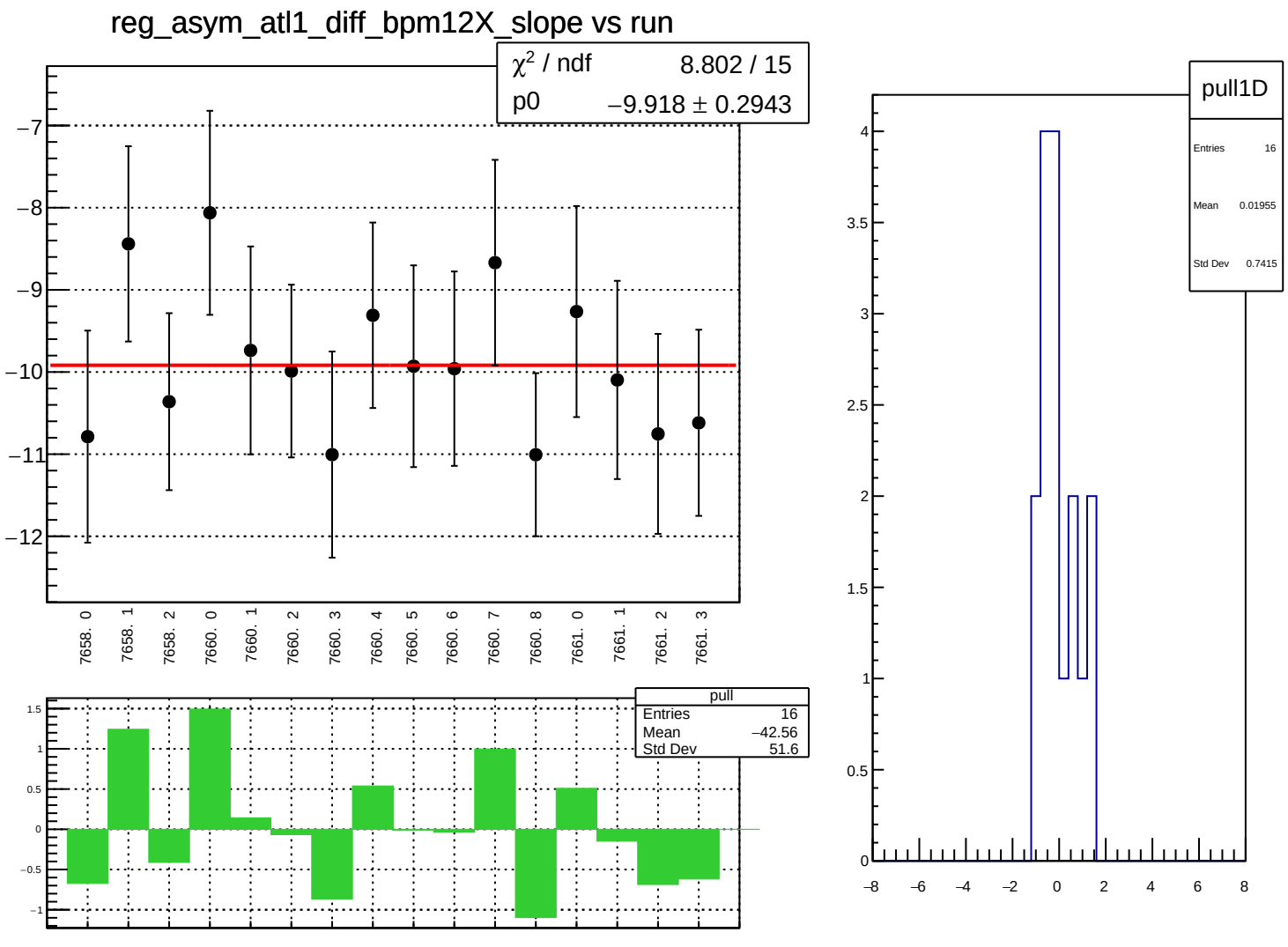

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 7.888 / 15
p0 12.39 ± 3.576
50
40
30
20
10
0
−10
−20
−30
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 126.3
Std Dev 118.4
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 16
Mean −0.0112
Std Dev 0.7021
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

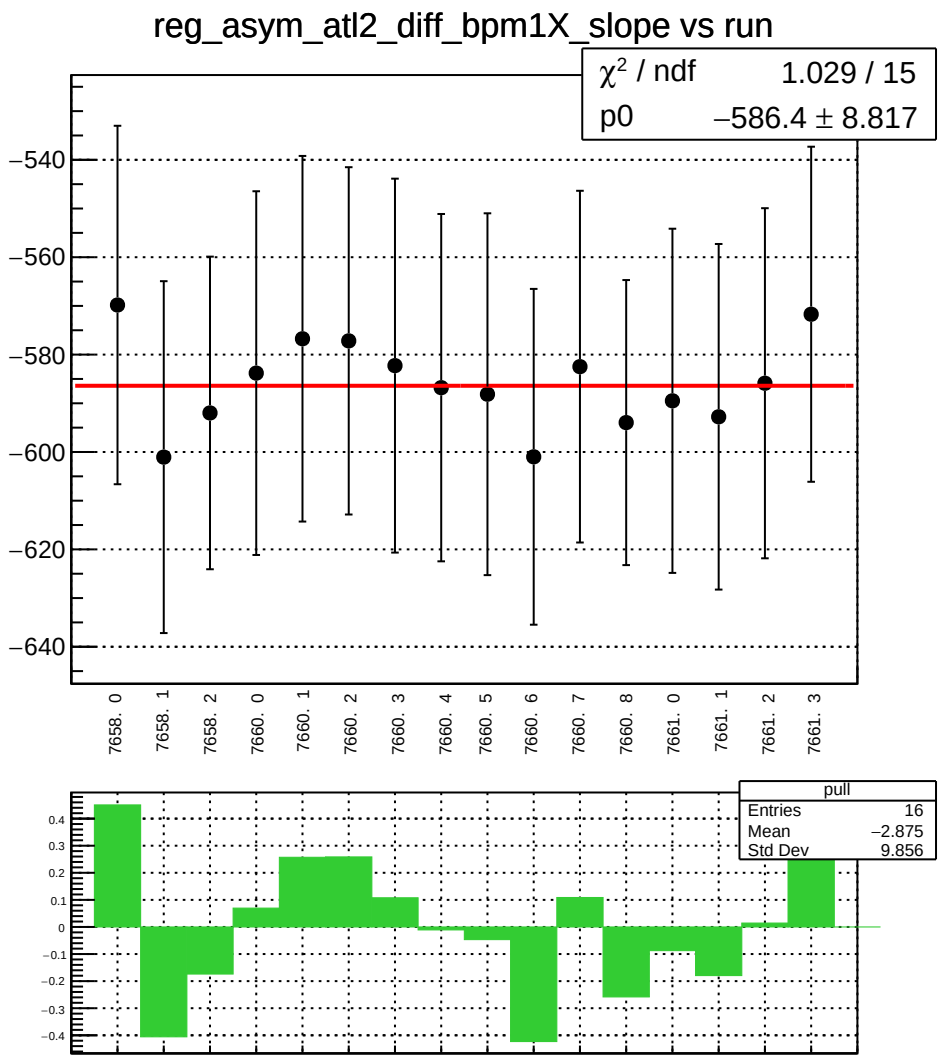

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 10.45 / 15
p0 49.81 ± 1.824
65
60
55
50
45
40
35
30
25
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −47.16
Std Dev 53.2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

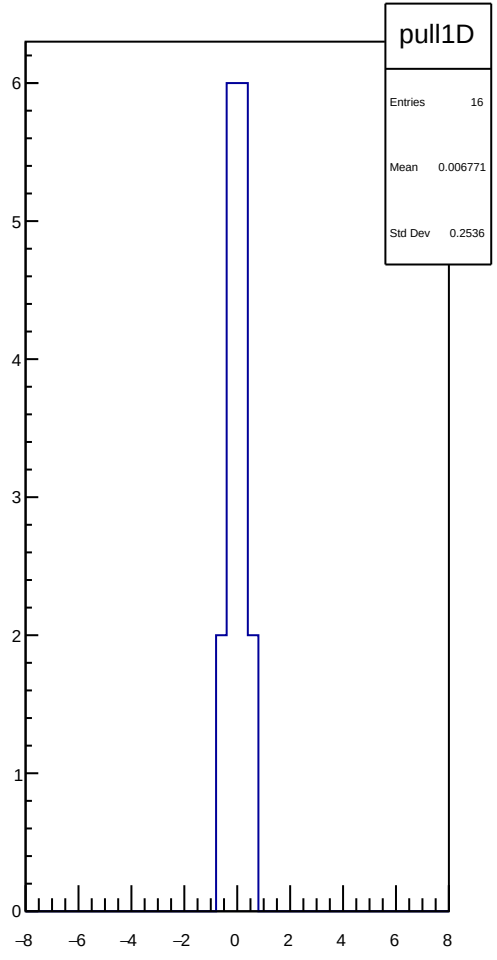

pull1D
Entries 16
Mean −0.02149
Std Dev 0.8078
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

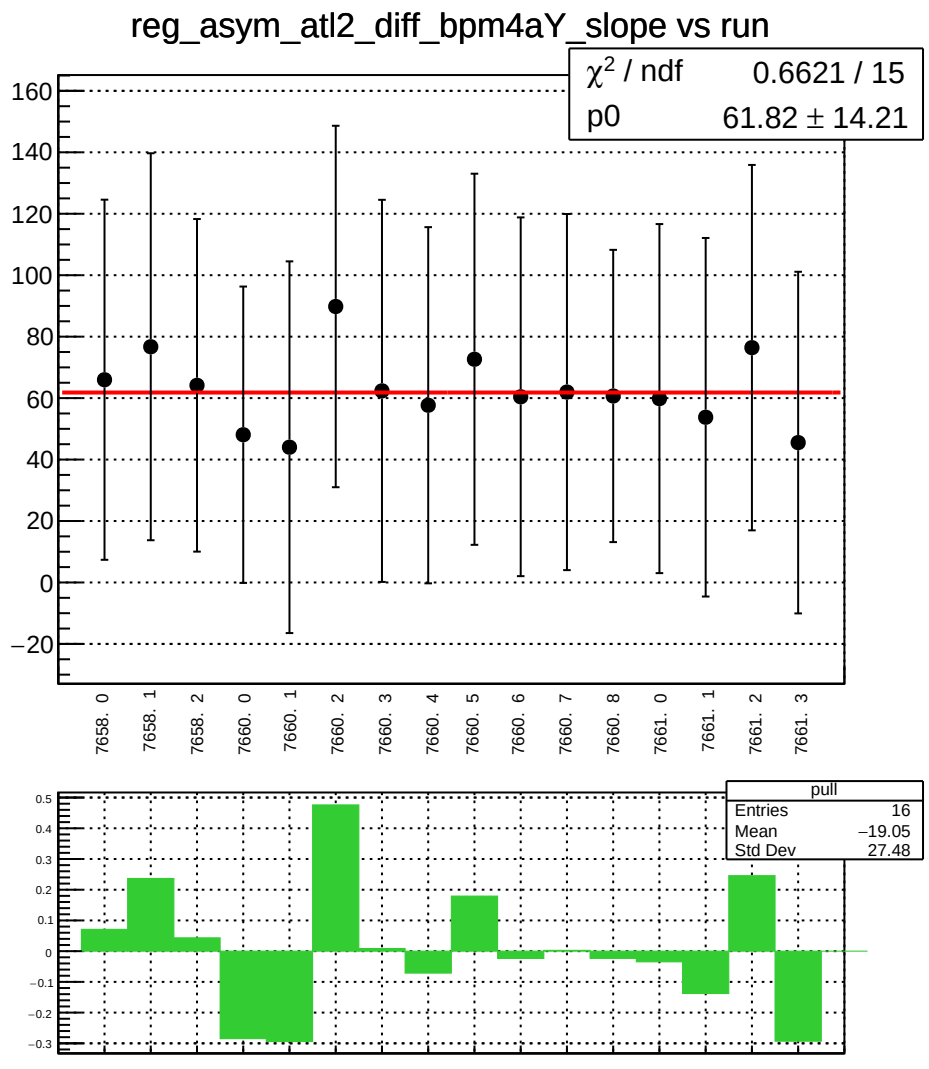

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 7.744 / 15
p0 −23.96 ± 5.213
20
0
−20
−40
−60
−80
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 114.9
Std Dev 107
1.5
1
0.5
0
−0.5
−1
−1.5

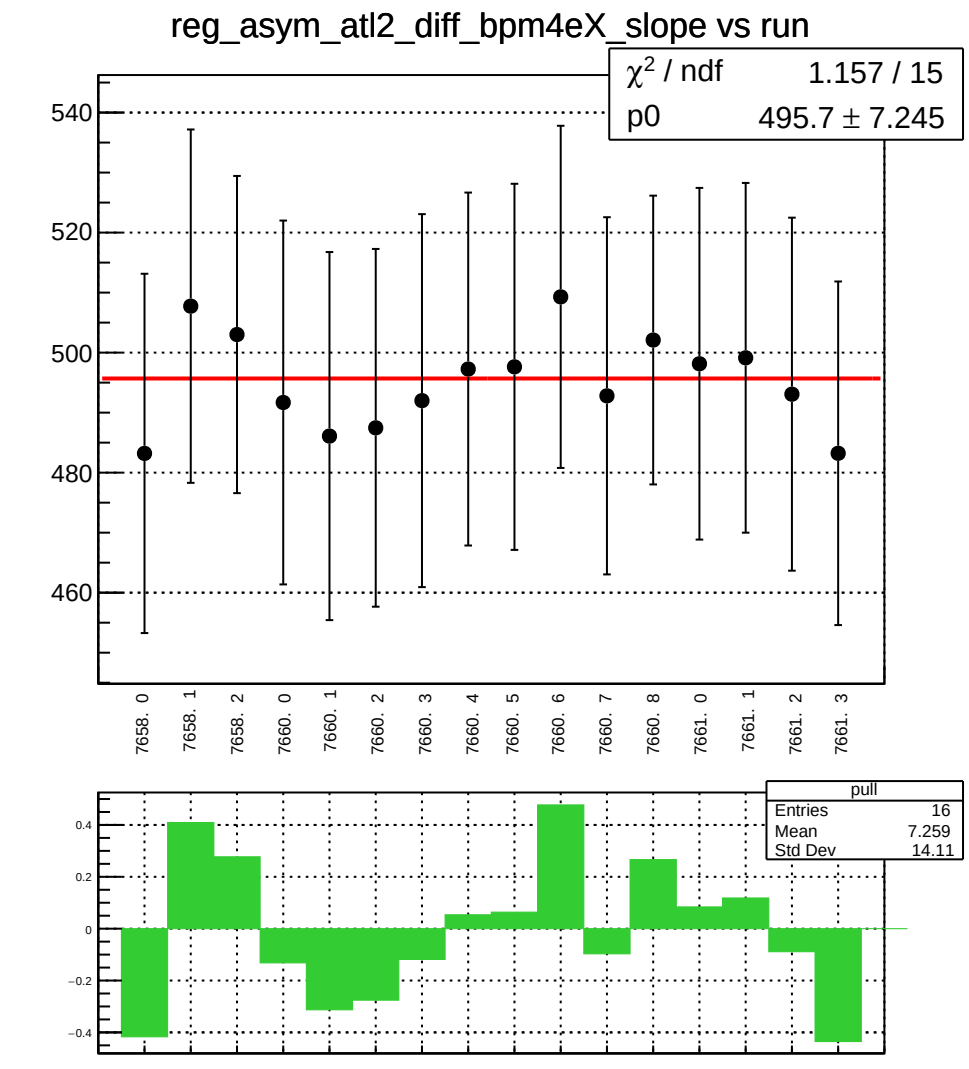

pull1D
Entries 16
Mean 0.01254
Std Dev 0.6956
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

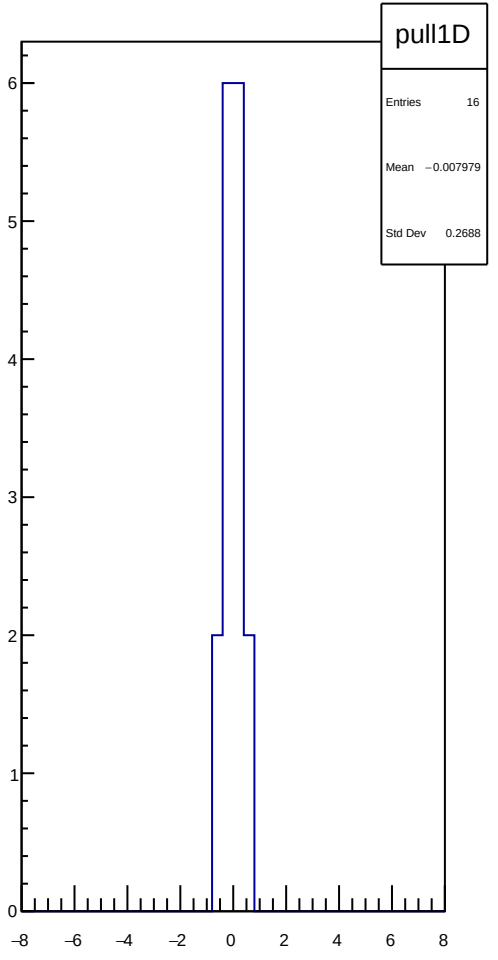

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 8.802 / 15
p0 −9.918 ± 0.2943
−7
−8
−9
−10
−11
−12
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −42.56
Std Dev 51.6
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 16
Mean 0.01955
Std Dev 0.7415
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

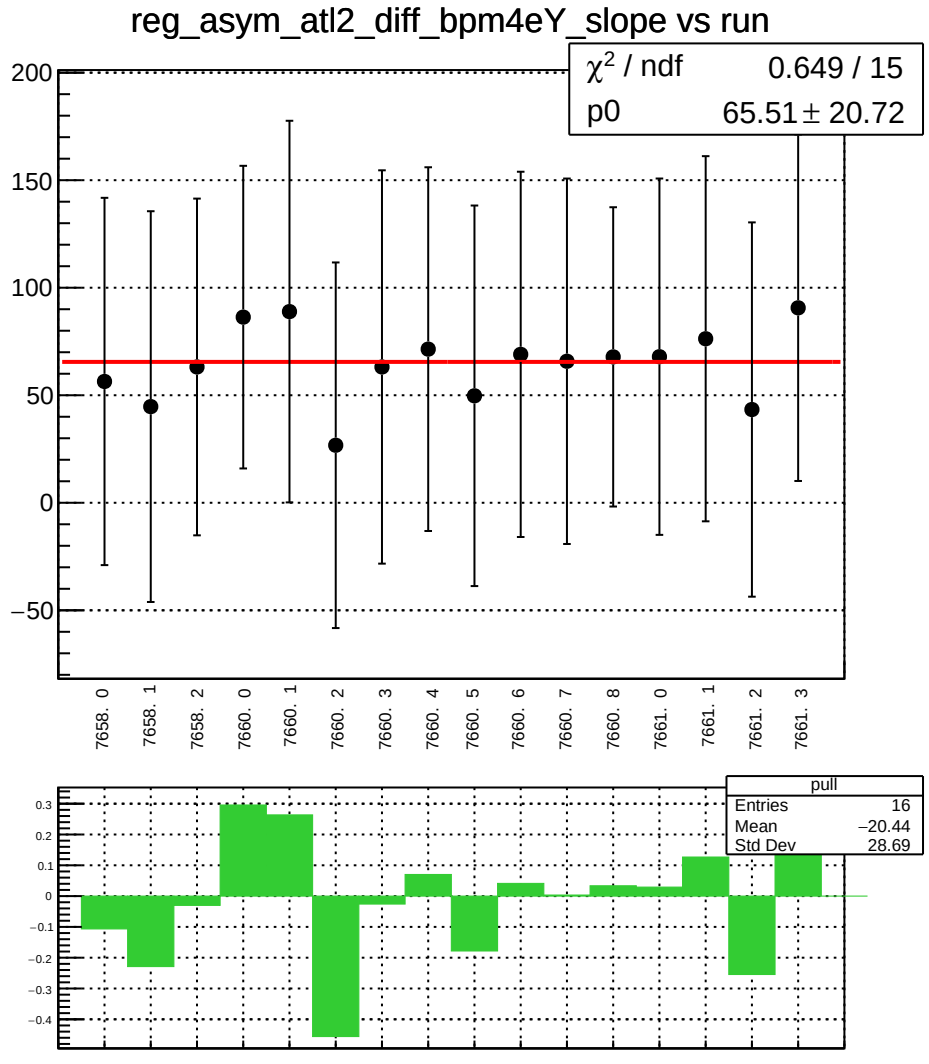

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 1.029 / 15
p0 −586.4 ± 8.817
−540
−560
−580
−600
−620
−640
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −2.875
Std Dev 9.856
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

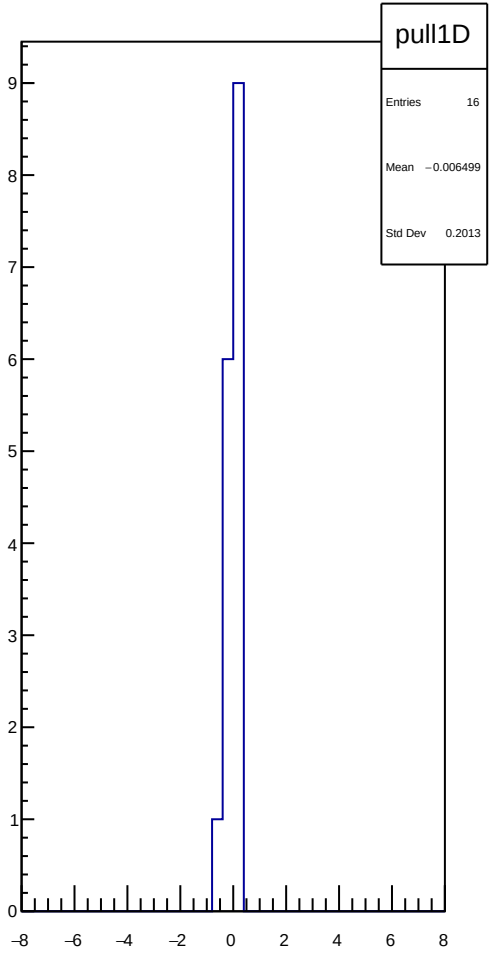

pull1D
Entries 16
Mean 0.006771
Std Dev 0.2536
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

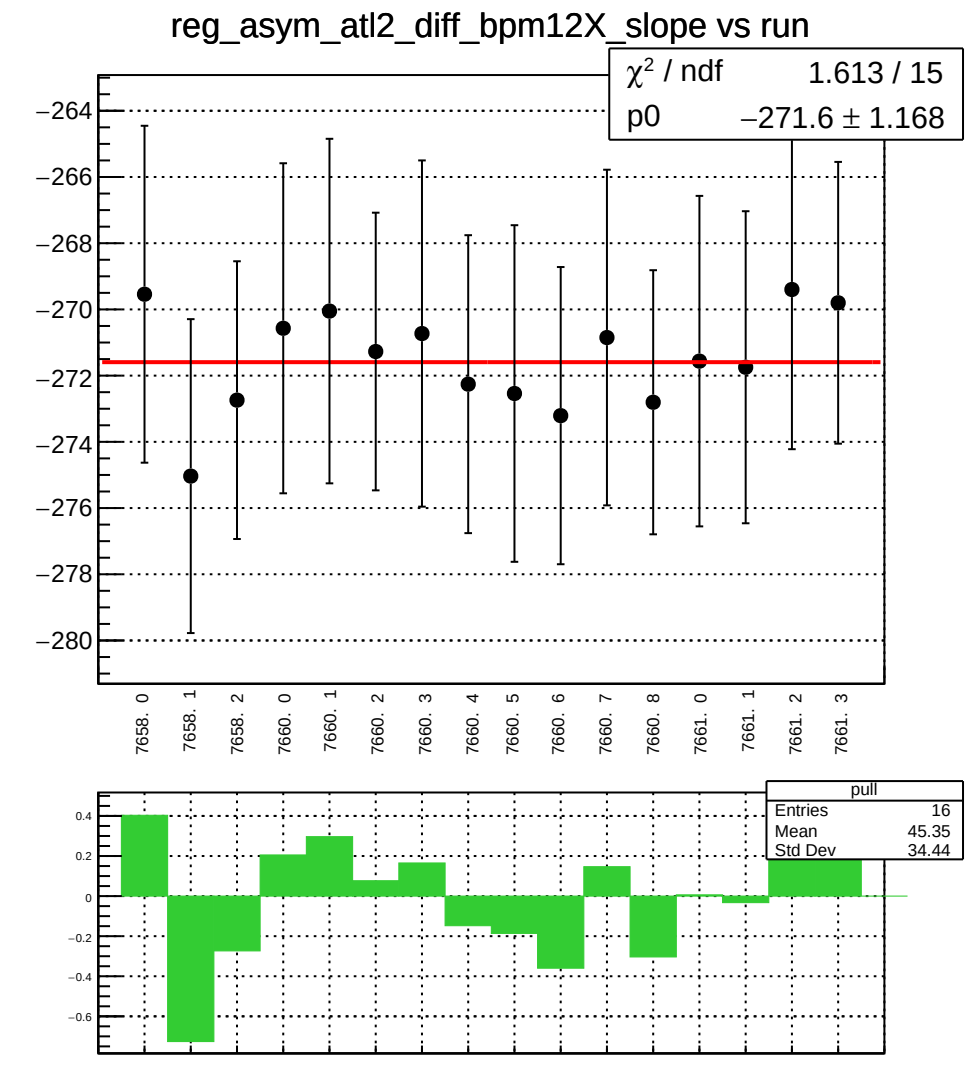

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 0.6621 / 15
p0 61.82 ± 14.21
160
140
120
100
80
60
40
20
0
−20
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −19.05
Std Dev 27.48
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 16
Mean 0.006246
Std Dev 0.2033
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

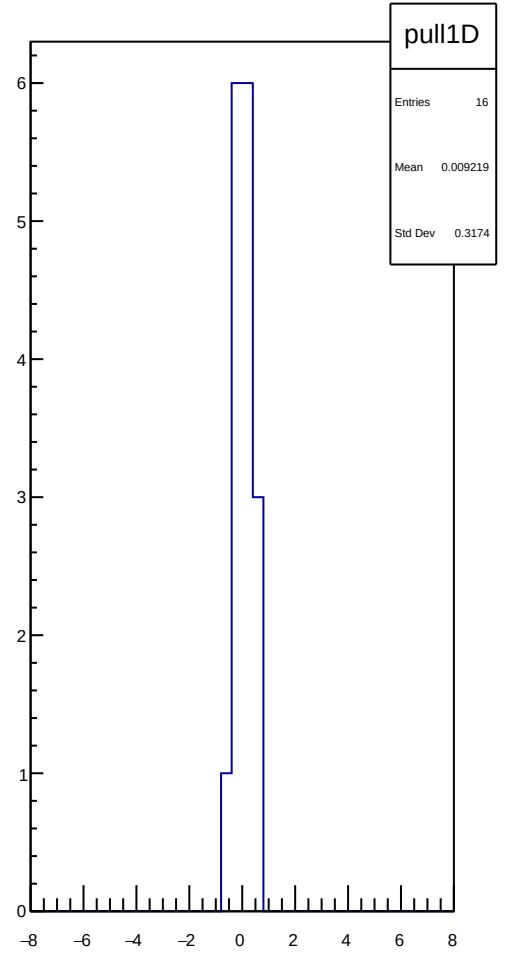

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 1.157 / 15
p0 495.7 ± 7.245
540
520
500
480
460
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 7.259
Std Dev 14.11
0.4
0.2
0
−0.2
−0.4

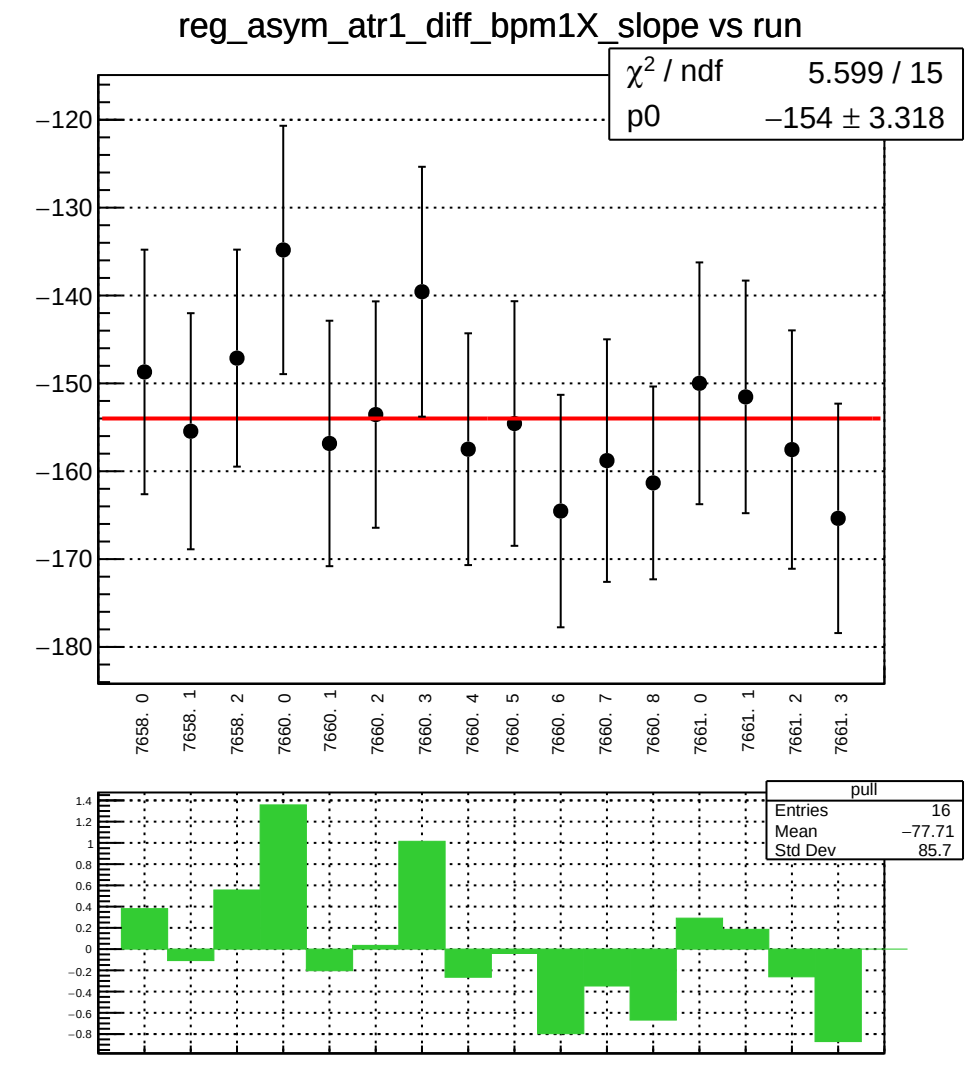

pull1D
Entries 16
Mean −0.007979
Std Dev 0.2688
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

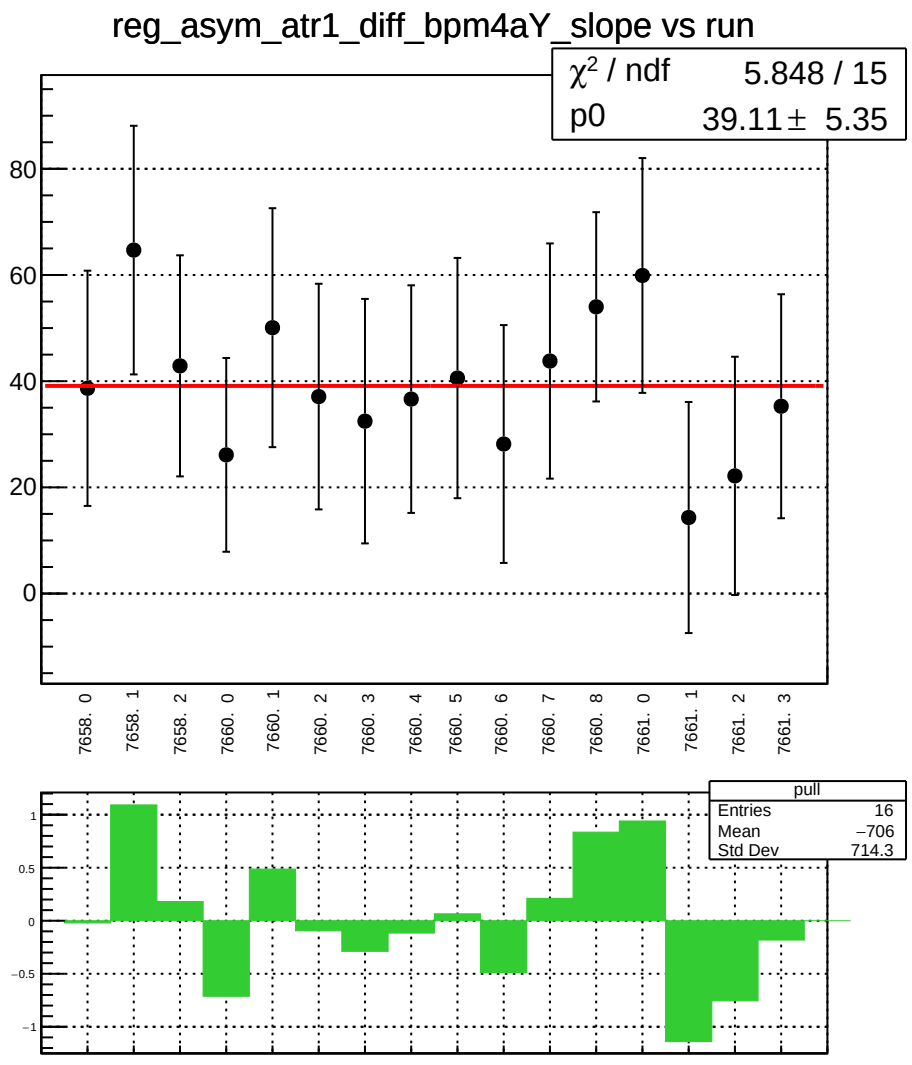

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 0.649 / 15
p0 65.51 ± 20.72
200
150
100
50
0
−50
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −20.44
Std Dev 28.69
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

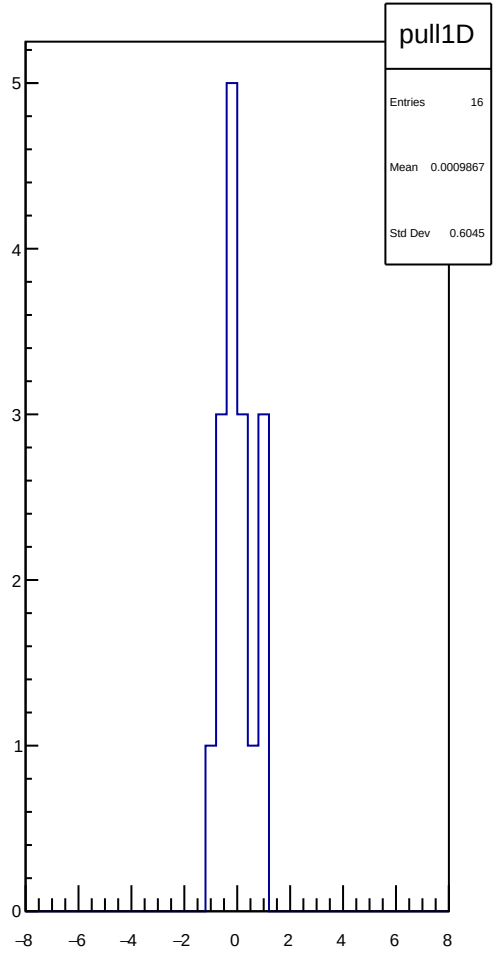

pull1D
Entries 16
Mean −0.006499
Std Dev 0.2013
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

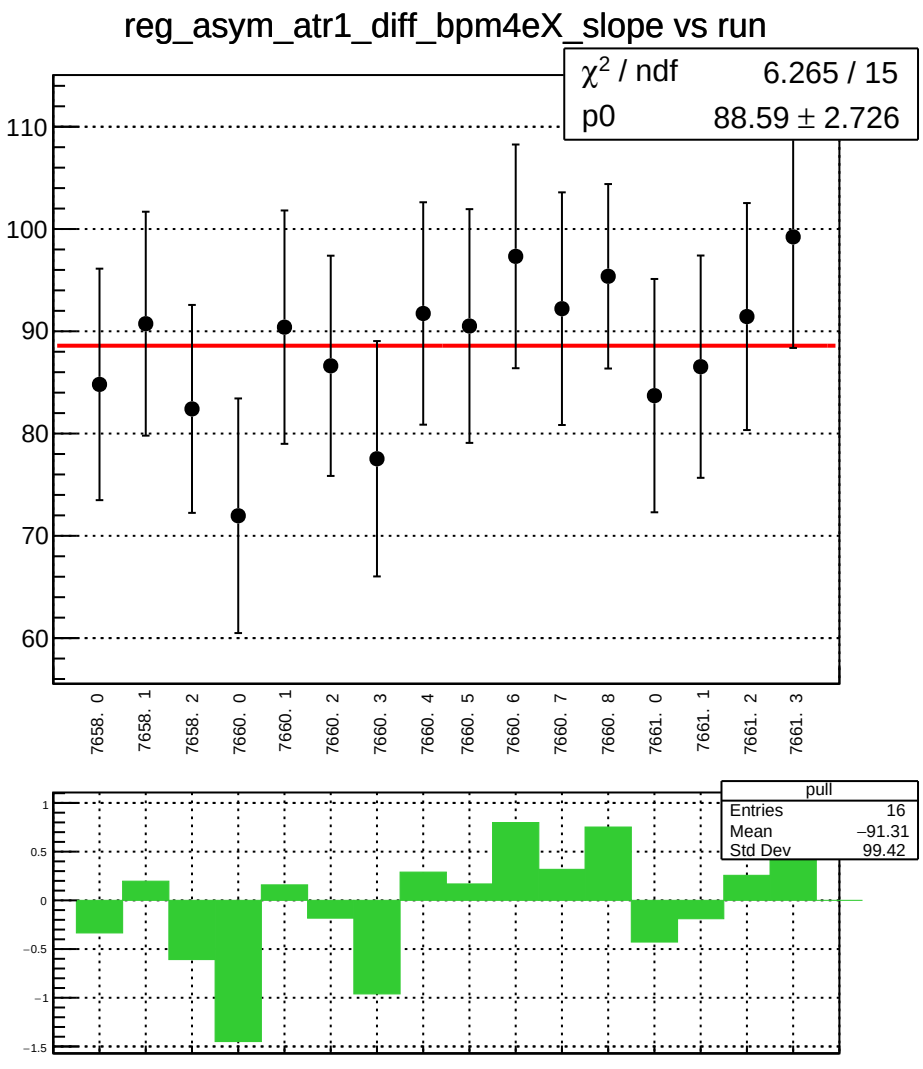

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 1.613 / 15
p0 −271.6 ± 1.168
−264
−266
−268
−270
−272
−274
−276
−278
−280
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 45.35
Std Dev 34.44
0.4
0.2
0
−0.2
−0.4
−0.6

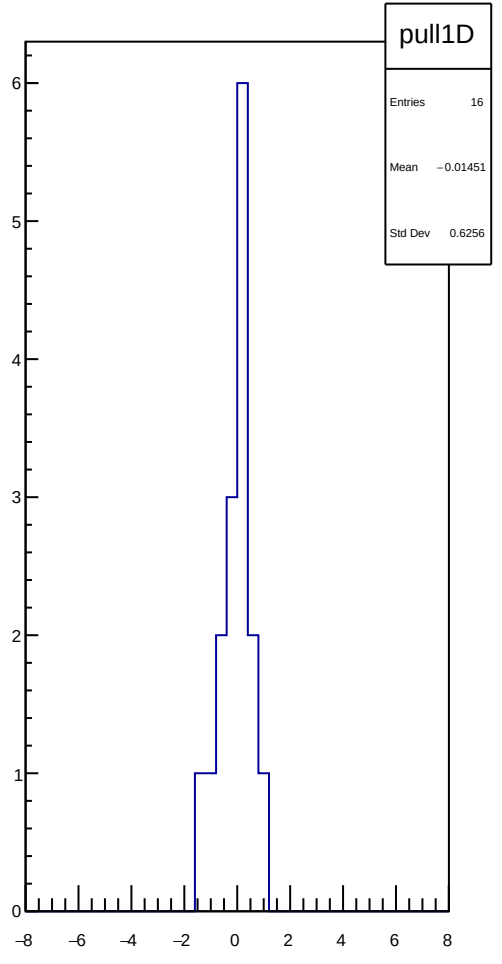

pull1D
Entries 16
Mean 0.009219
Std Dev 0.3174
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

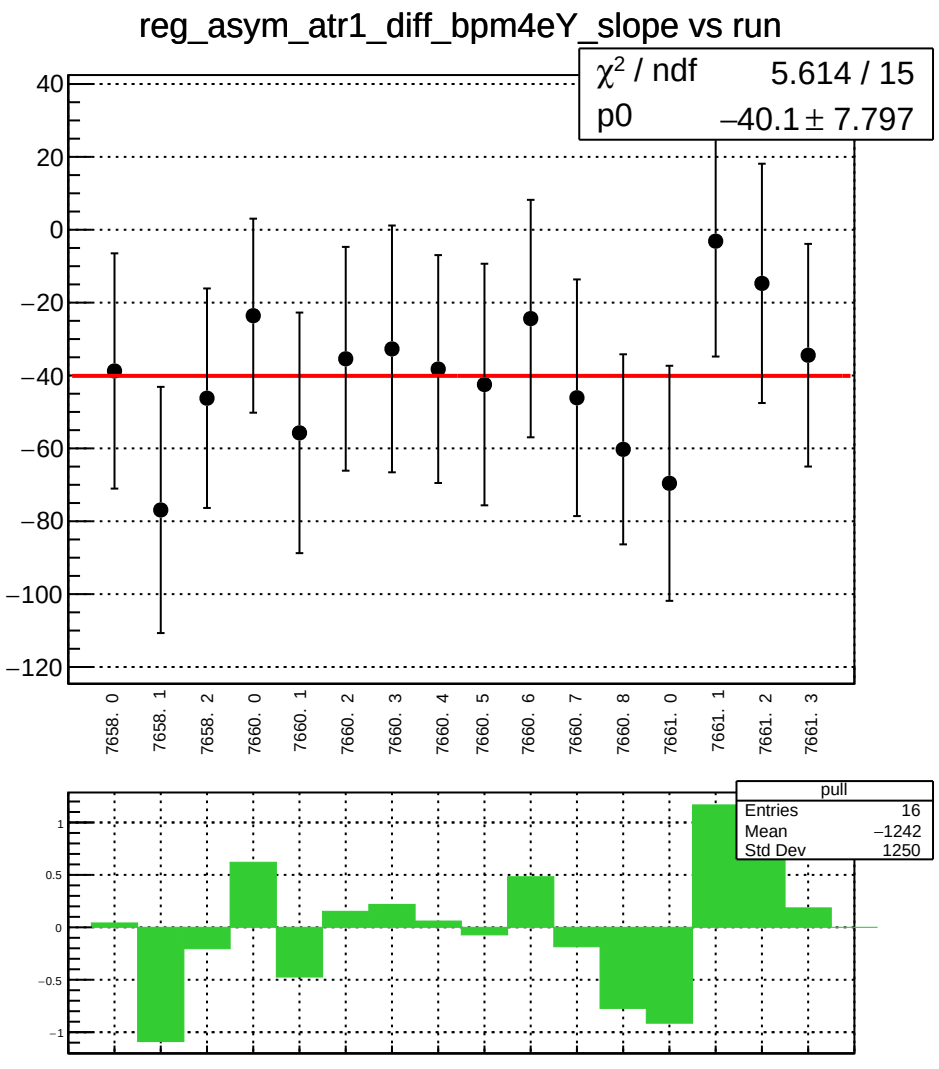

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 5.599 / 15
p0 −154 ± 3.318
−120
−130
−140
−150
−160
−170
−180
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −77.71
Std Dev 85.7
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 16
Mean 0.01633
Std Dev 0.5913
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

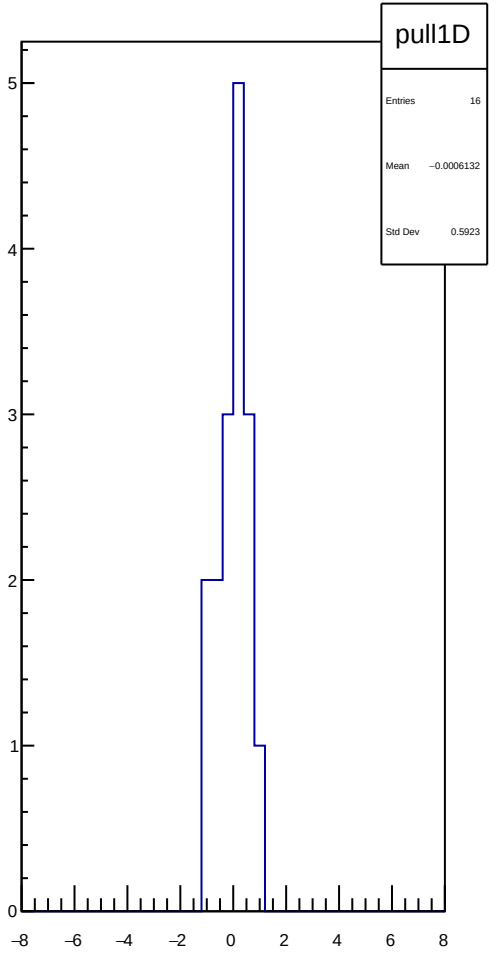

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 5.848 / 15
p0 39.11 ± 5.35
80
60
40
20
0
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −706
Std Dev 714.3
1
0.5
0
−0.5
−1

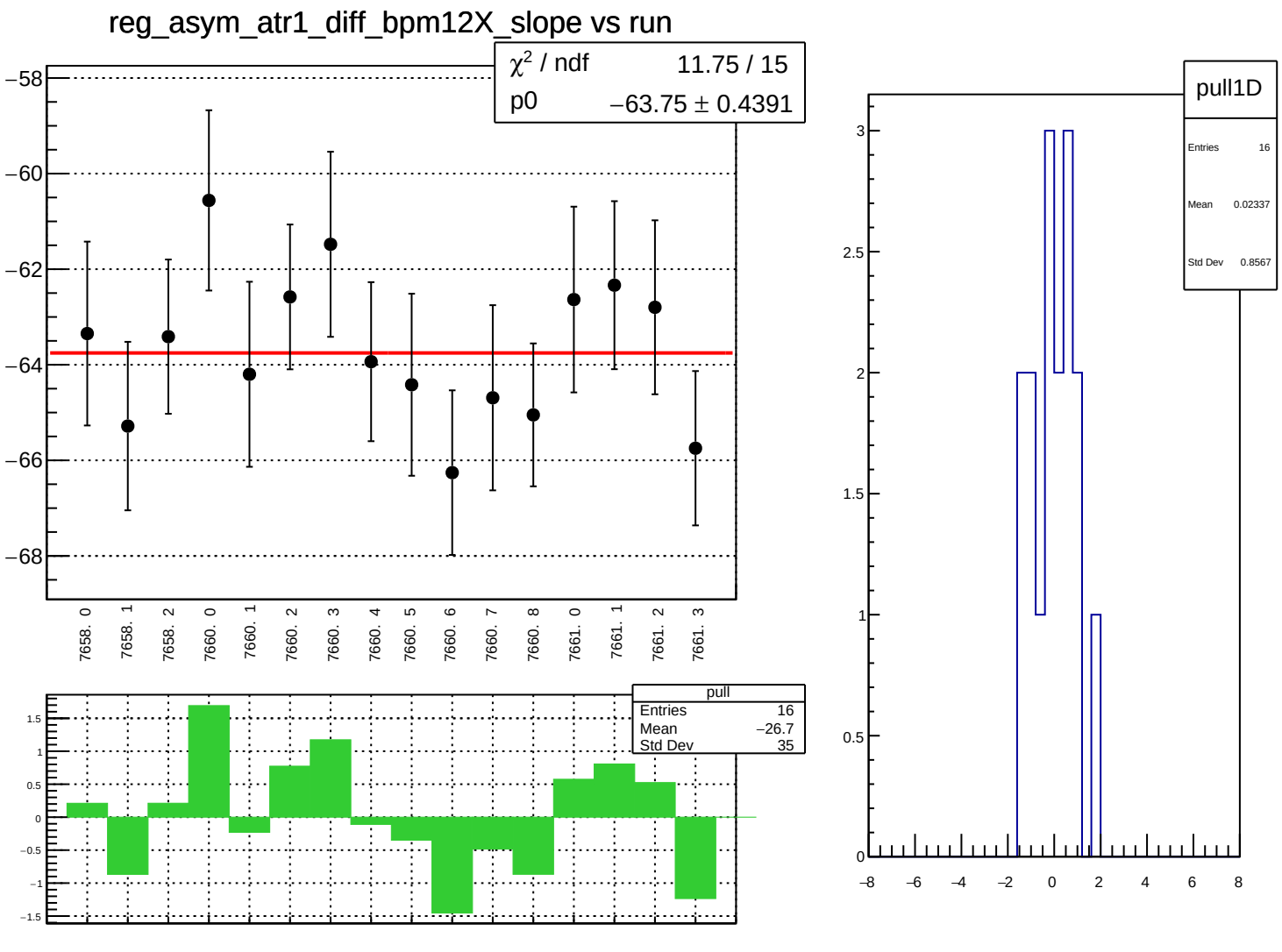

pull1D
Entries 16
Mean 0.0009867
Std Dev 0.6045
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

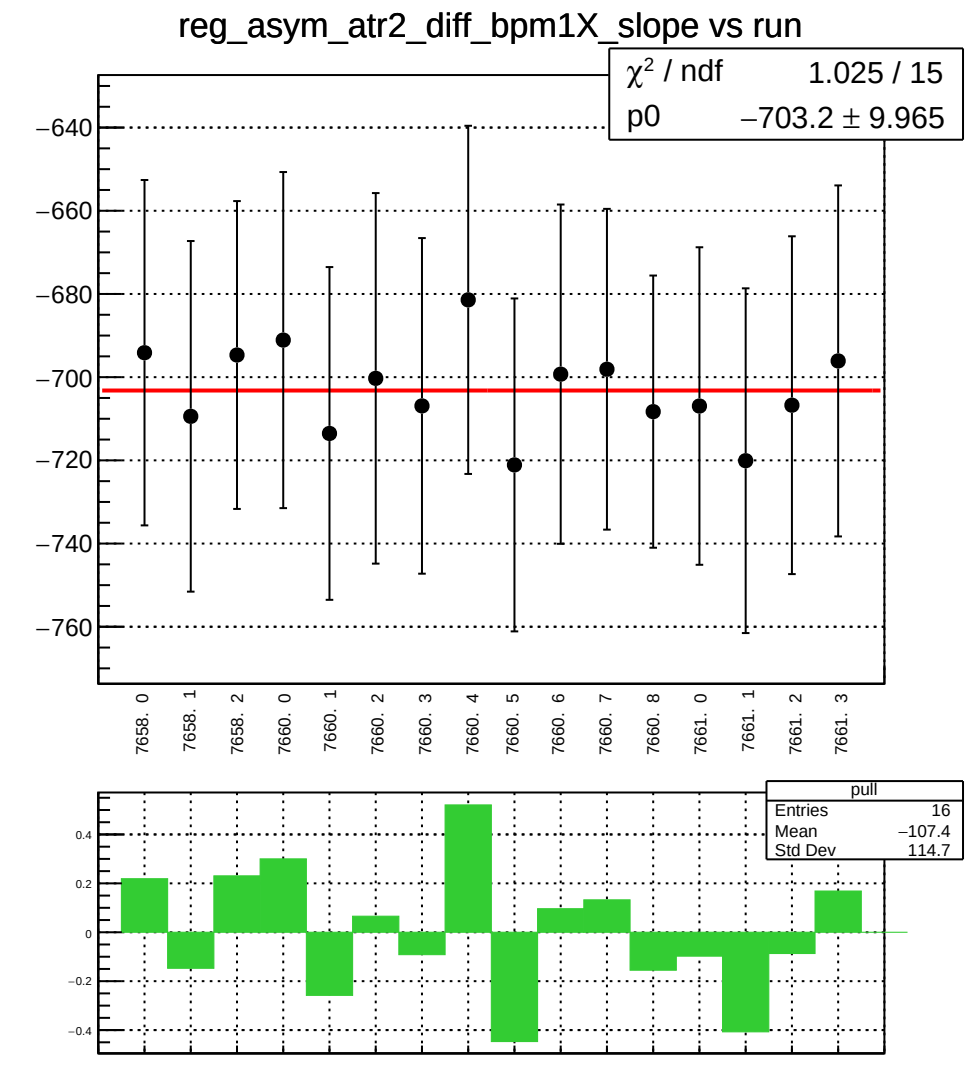

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 6.265 / 15
p0 88.59 ± 2.726
110
100
90
80
70
60
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −91.31
Std Dev 99.42
1
0.5
0
−0.5
−1
−1.5

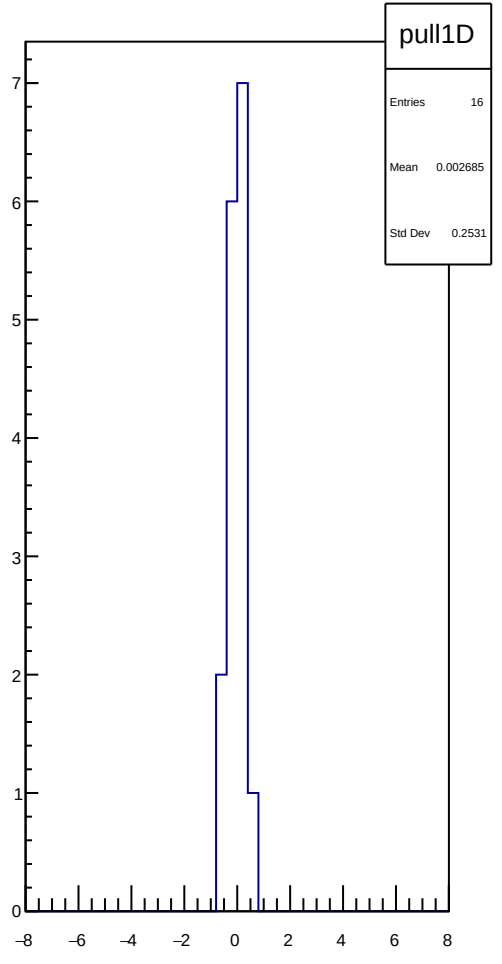

pull1D
Entries 16
Mean −0.01451
Std Dev 0.6256
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

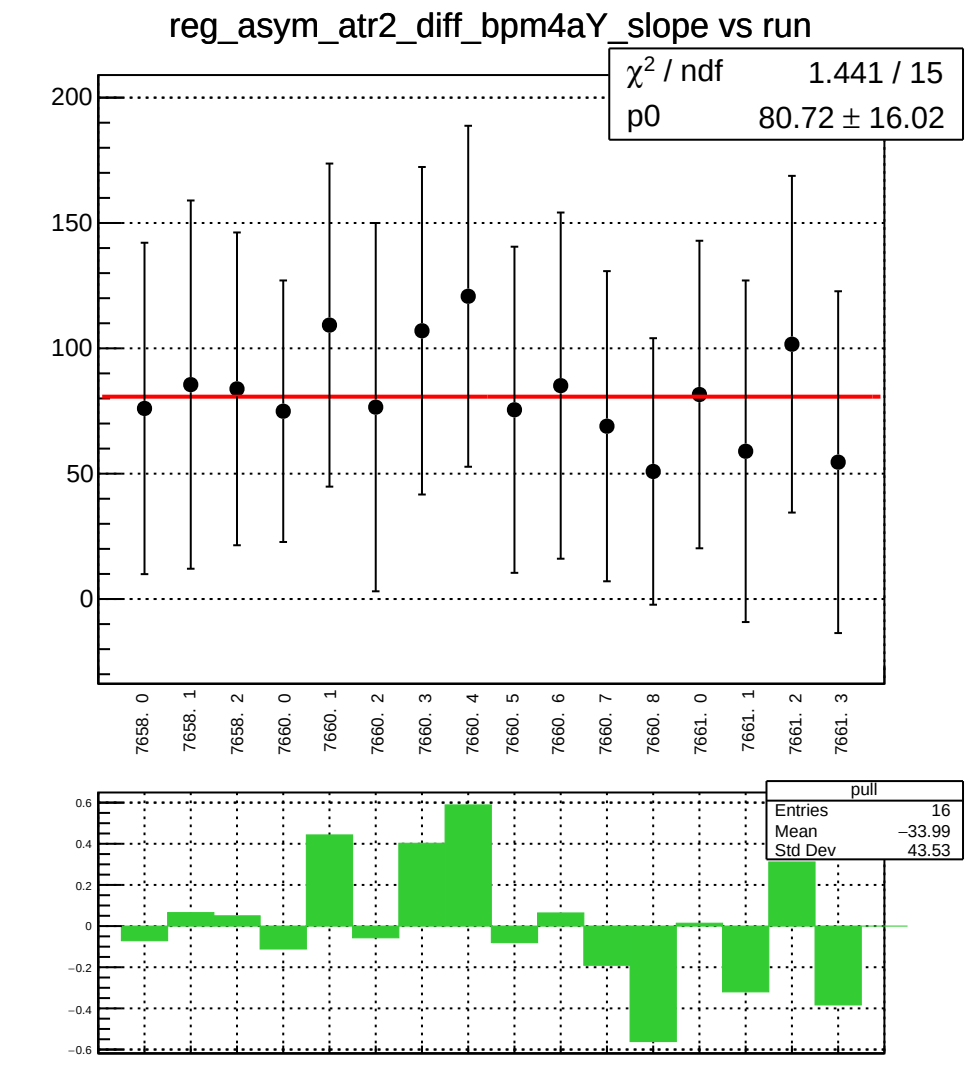

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 5.614 / 15
p0 −40.1 ± 7.797
40
20
0
−20
−40
−60
−80
−100
−120
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −1242
Std Dev 1250
1
0.5
0
−0.5
−1

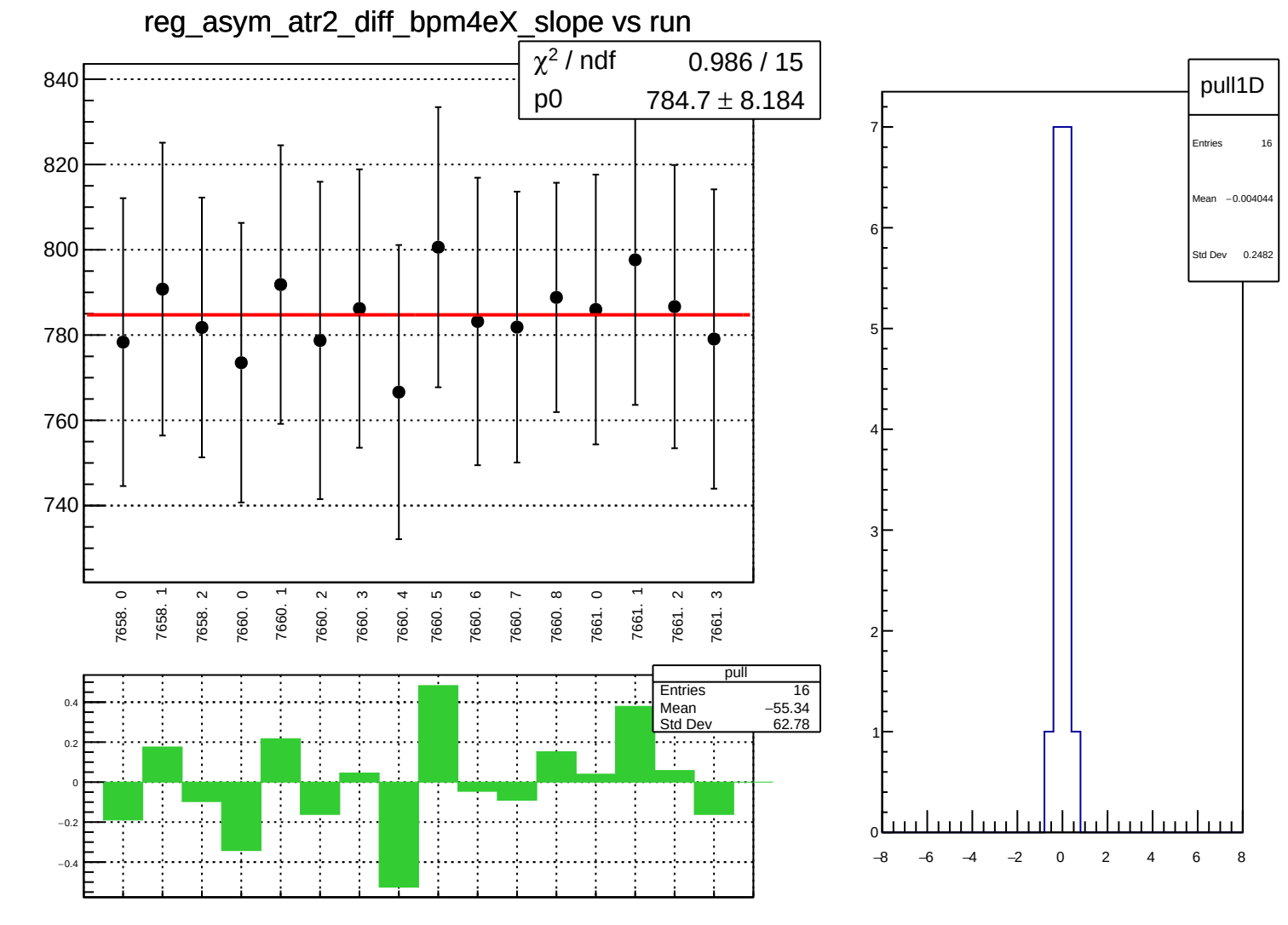

pull1D
Entries 16
Mean −0.0006132
Std Dev 0.5923
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

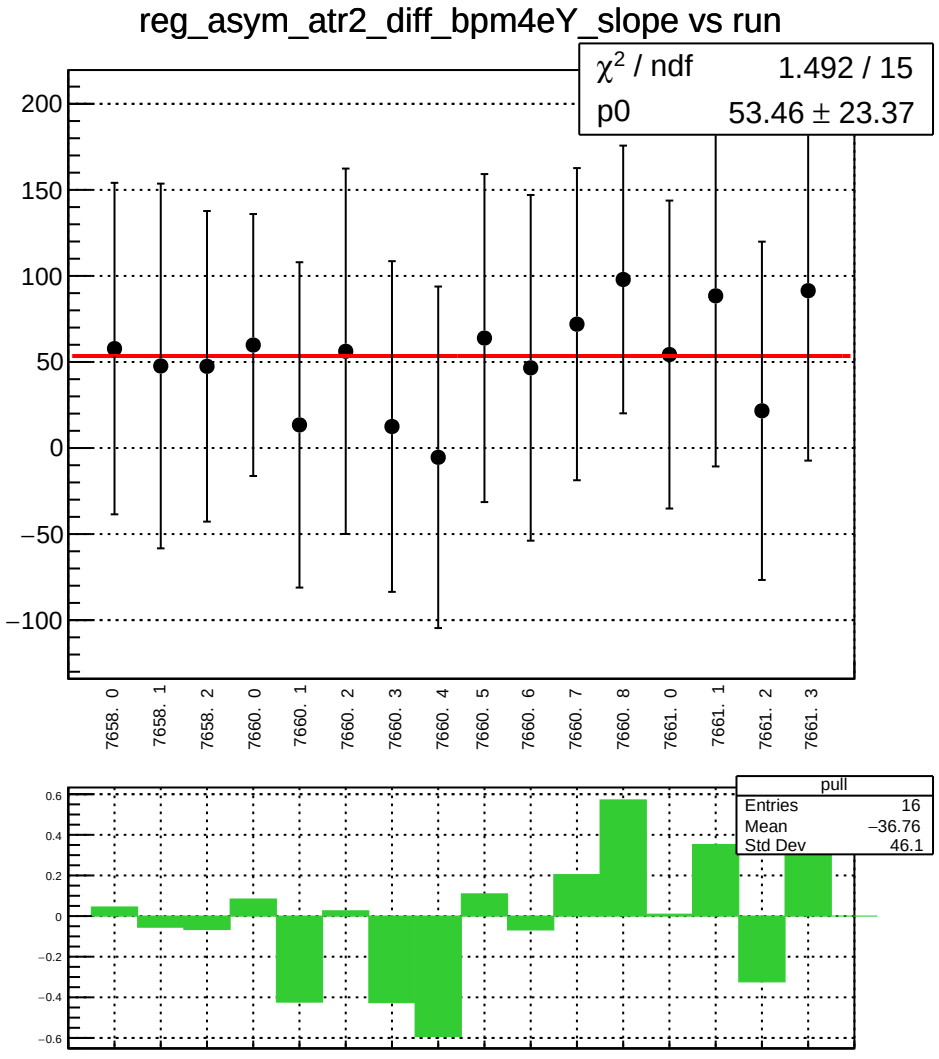

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 11.75 / 15
p0 −63.75 ± 0.4391
−58
−60
−62
−64
−66
−68
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −26.7
Std Dev 35
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 16
Mean 0.02337
Std Dev 0.8567
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

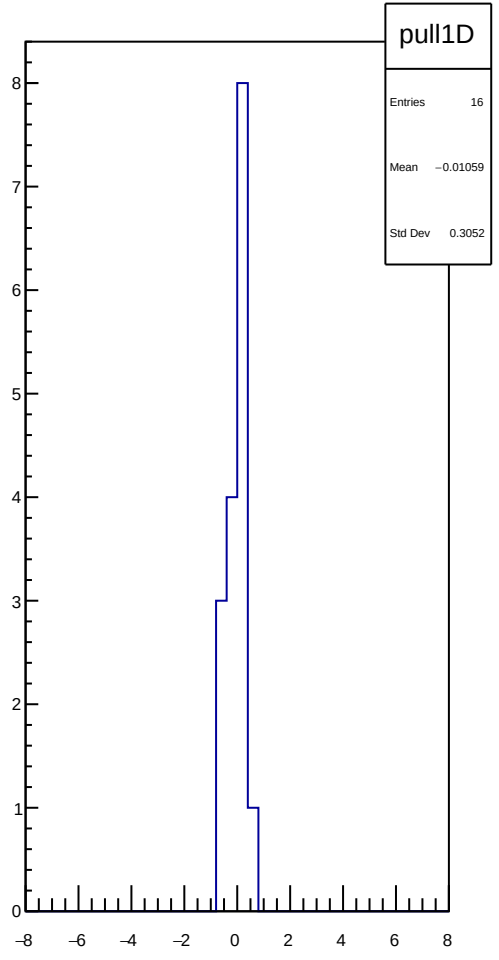

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 1.025 / 15
p0 −703.2 ± 9.965
−640
−660
−680
−700
−720
−740
−760
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −107.4
Std Dev 114.7
0.4
0.2
0
−0.2
−0.4

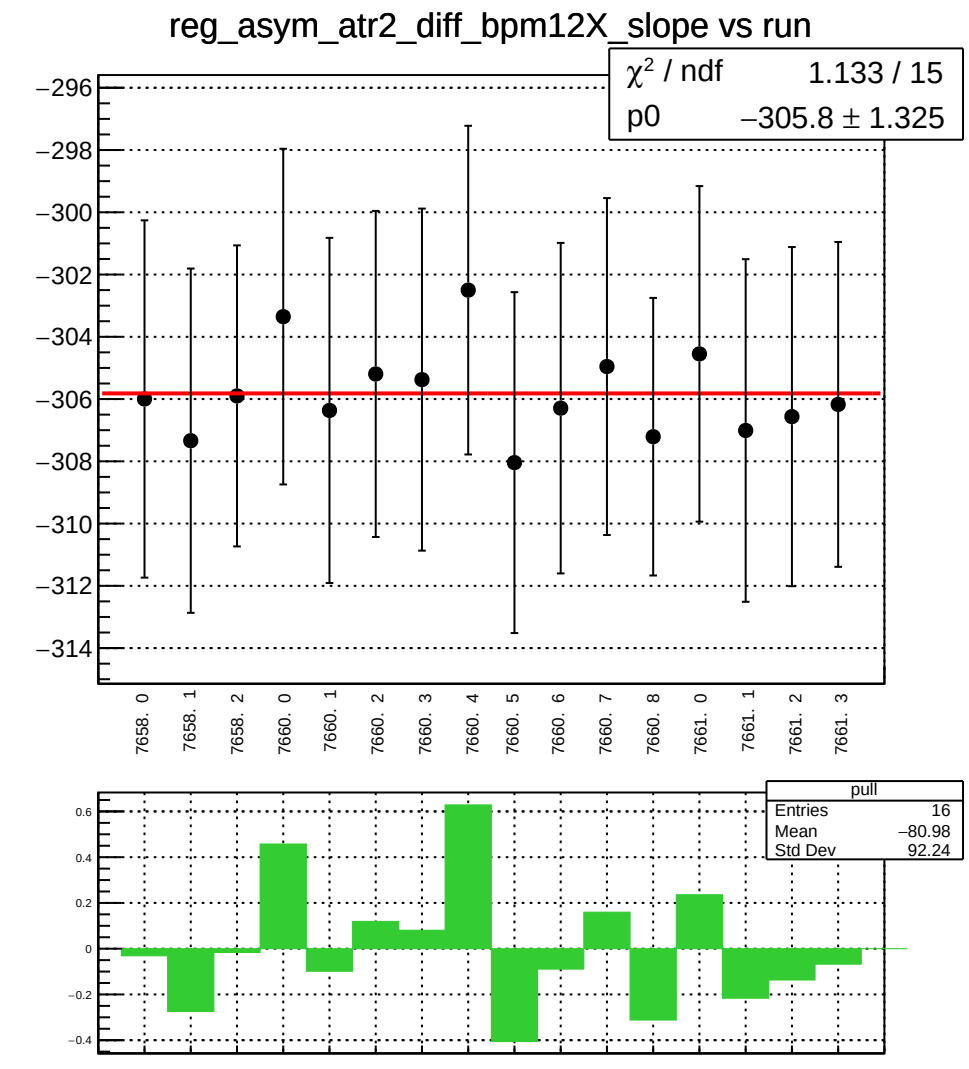

pull1D
Entries 16
Mean 0.002685
Std Dev 0.2531
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

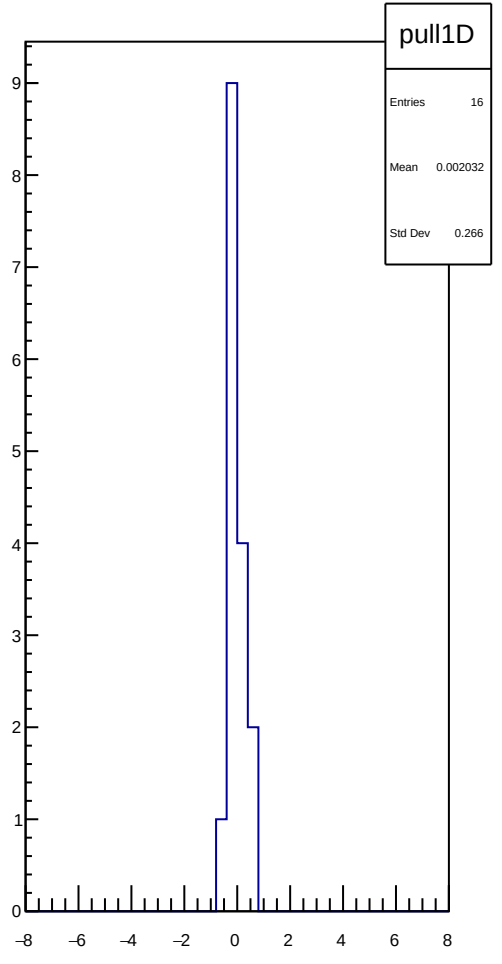

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 1.441 / 15
p0 80.72 ± 16.02
200
150
100
50
0
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −33.99
Std Dev 43.53
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 16
Mean 0.01027
Std Dev 0.2999
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

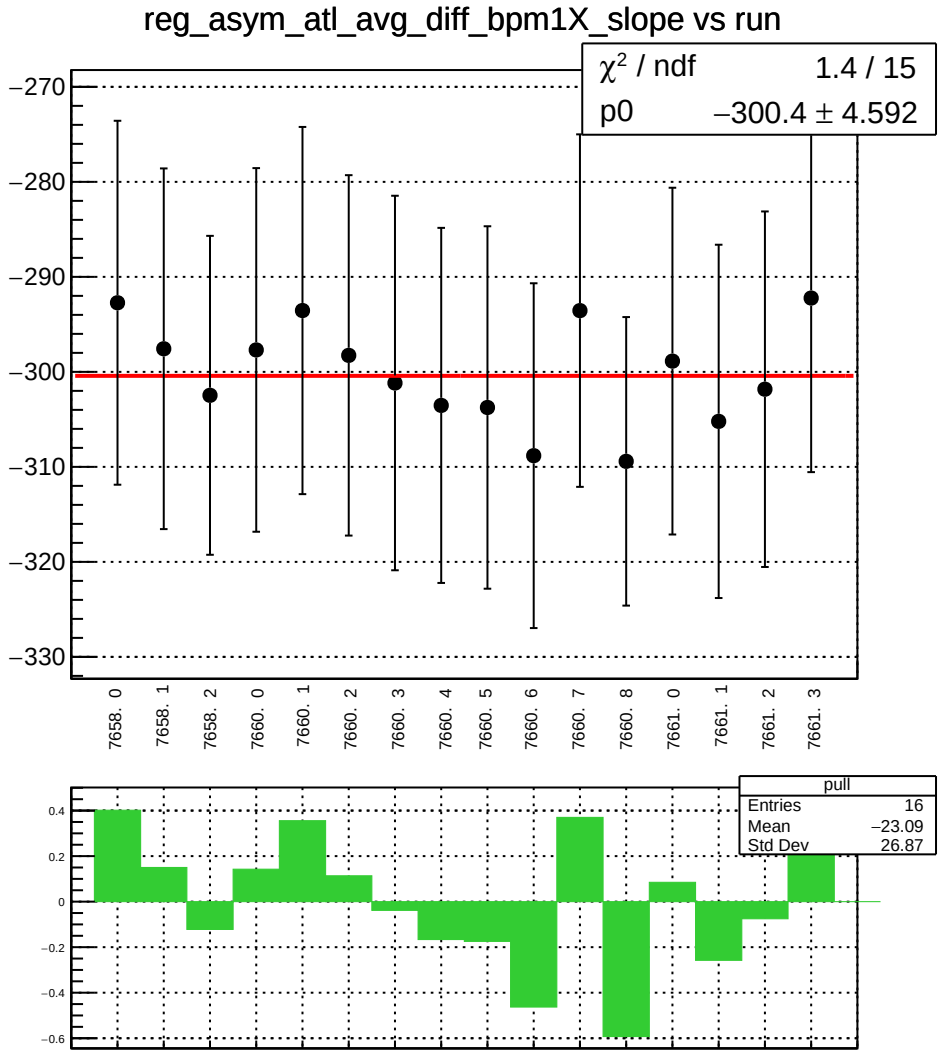

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 0.986 / 15
p0 784.7 ± 8.184
840
820
800
780
760
740
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −55.34
Std Dev 62.78
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 16
Mean −0.004044
Std Dev 0.2482
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

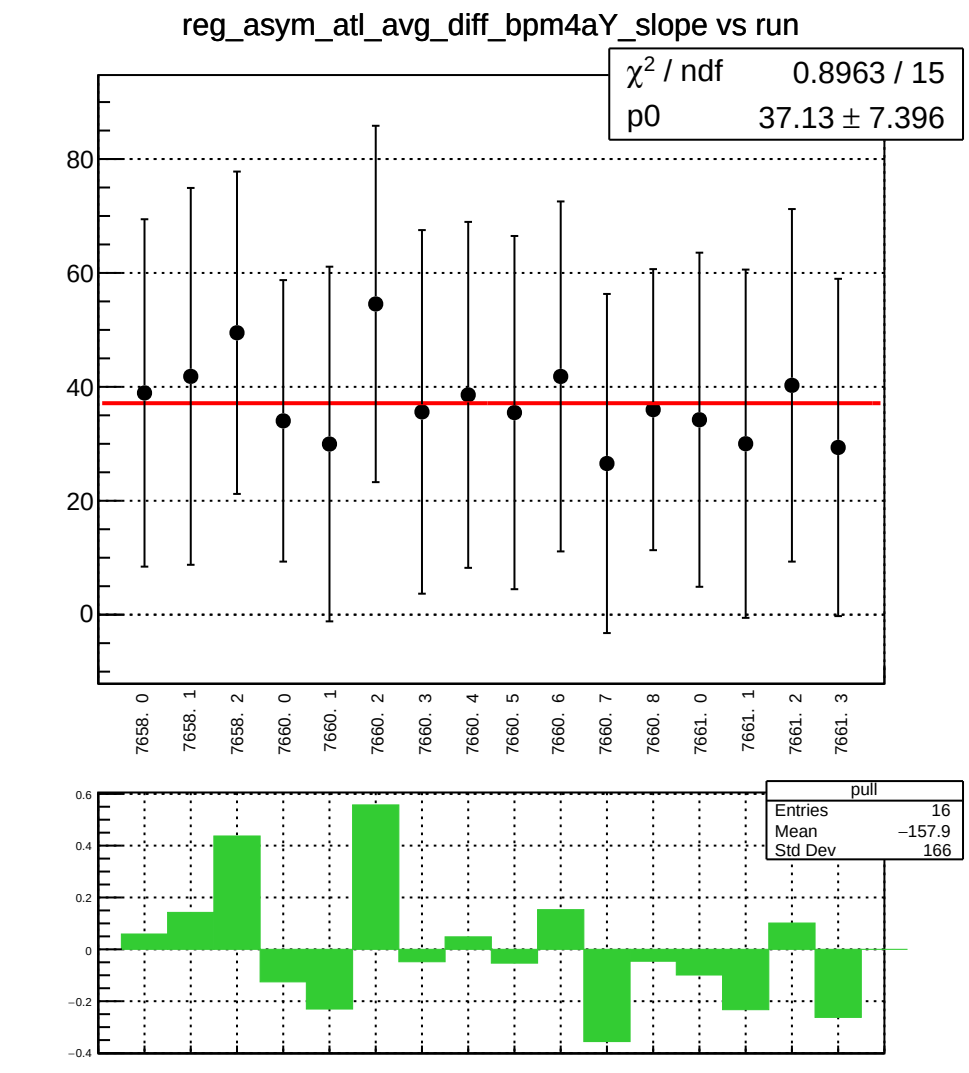

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 1.492 / 15
p0 53.46 ± 23.37
200
150
100
50
0
−50
−100
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −36.76
Std Dev 46.1
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

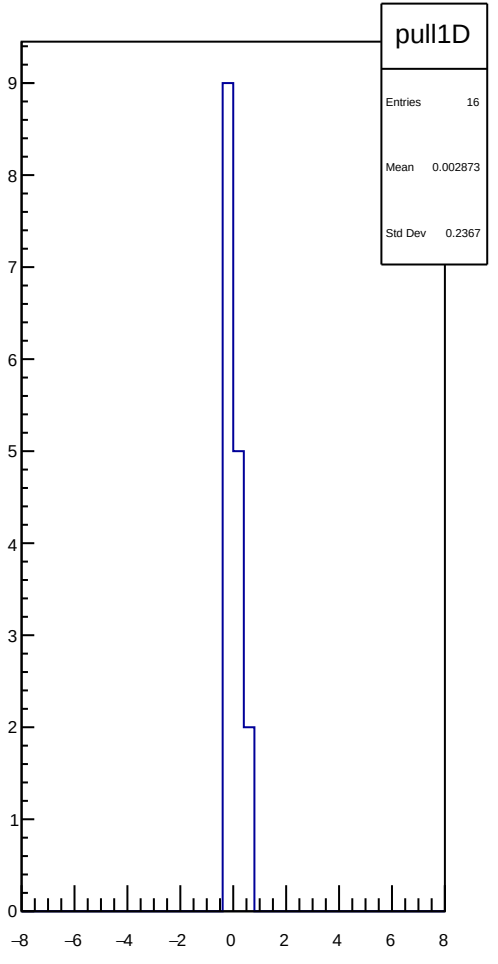

pull1D
Entries 16
Mean −0.01059
Std Dev 0.3052
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

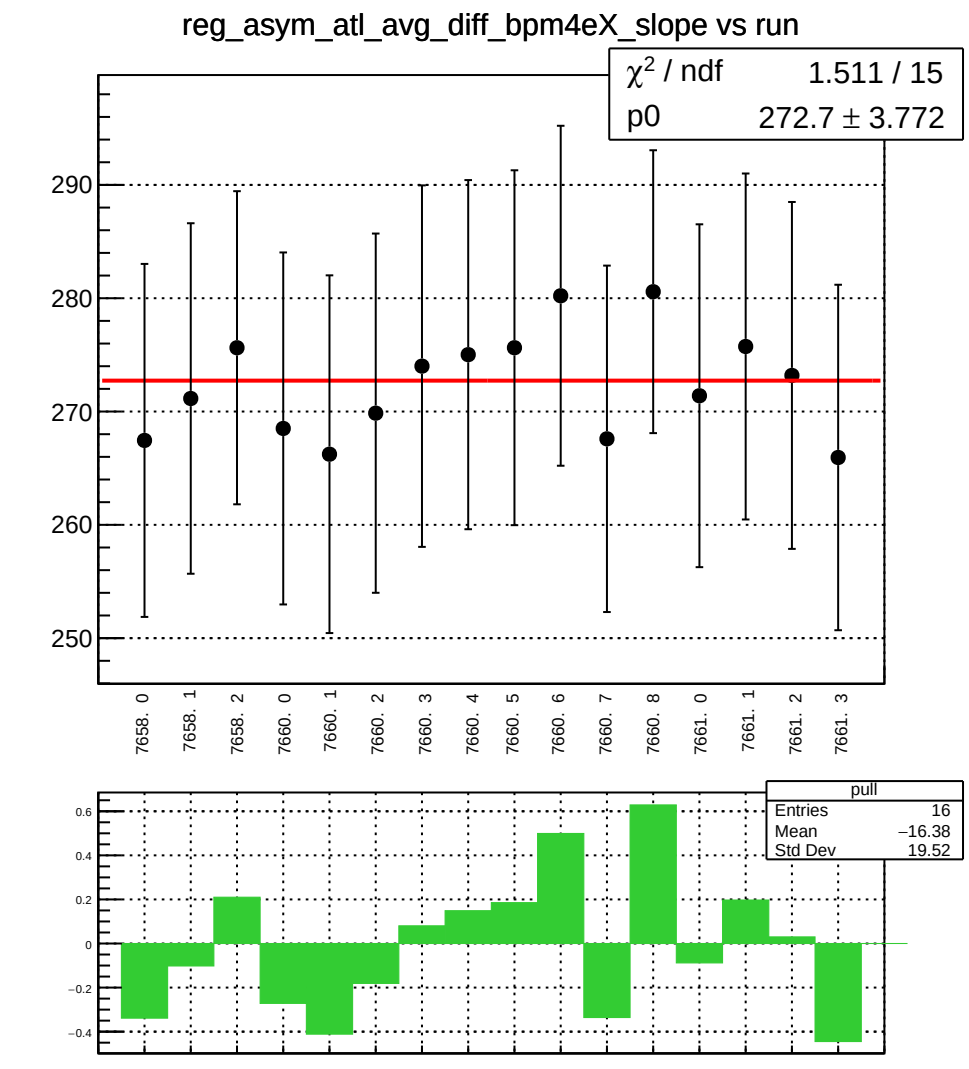

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 1.133 / 15
p0 −305.8 ± 1.325
−296
−298
−300
−302
−304
−306
−308
−310
−312
−314
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −80.98
Std Dev 92.24
0.6
0.4
0.2
0
−0.2
−0.4

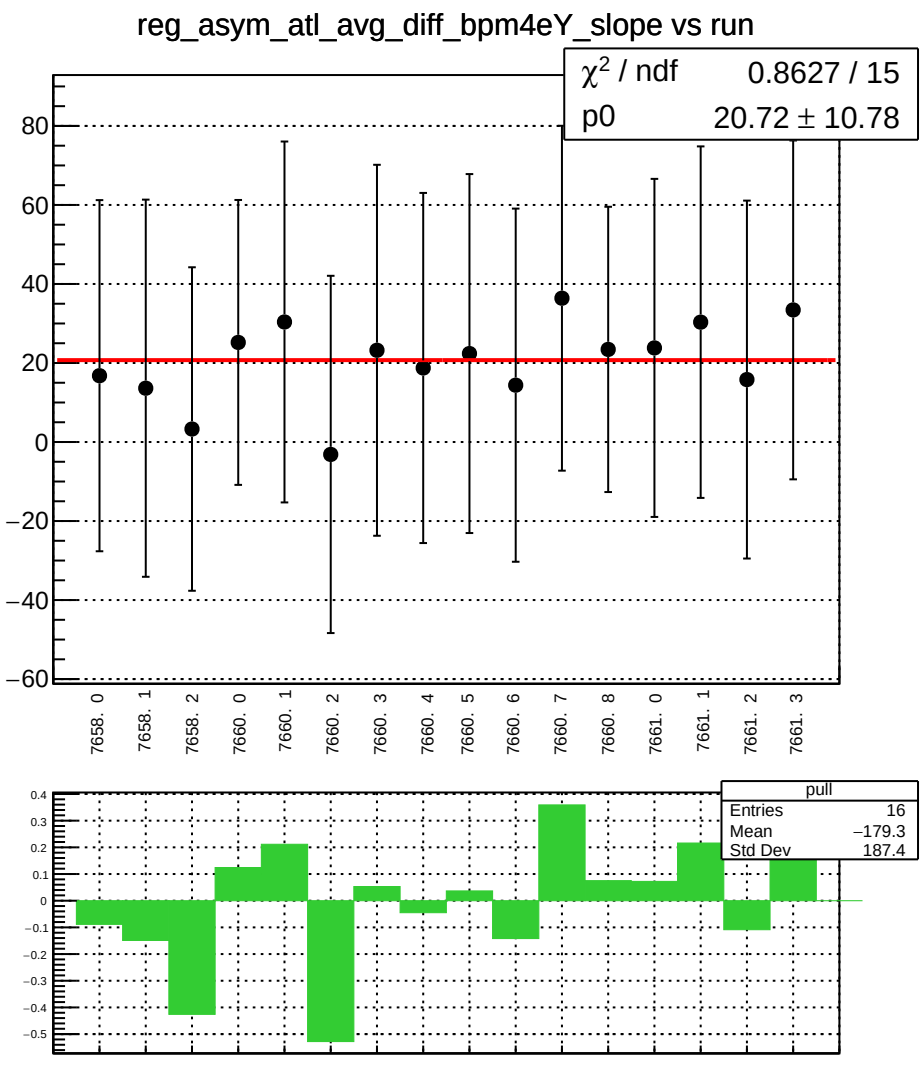

pull1D
Entries 16
Mean 0.002032
Std Dev 0.266
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

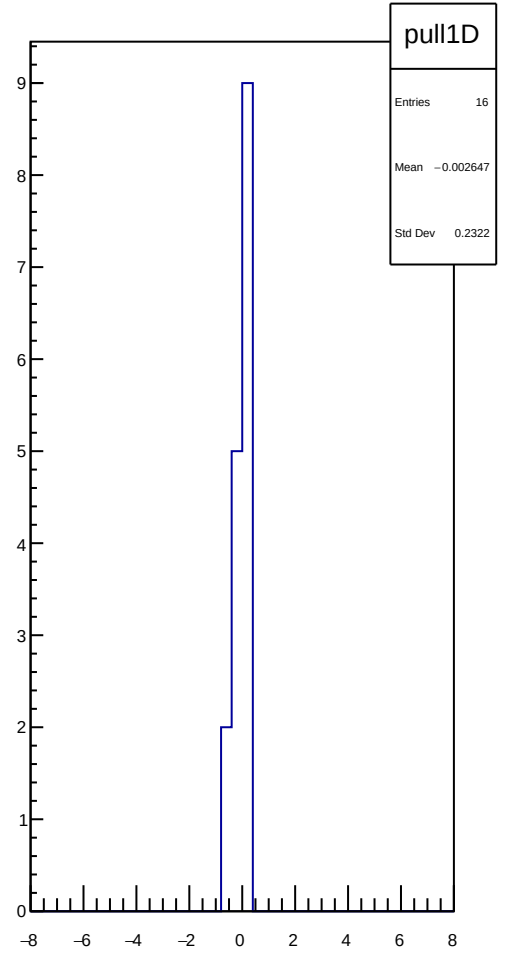

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 1.4 / 15
p0 −300.4 ± 4.592
−270
−280
−290
−300
−310
−320
−330
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −23.09
Std Dev 26.87
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 16
Mean 0.01096
Std Dev 0.2956
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

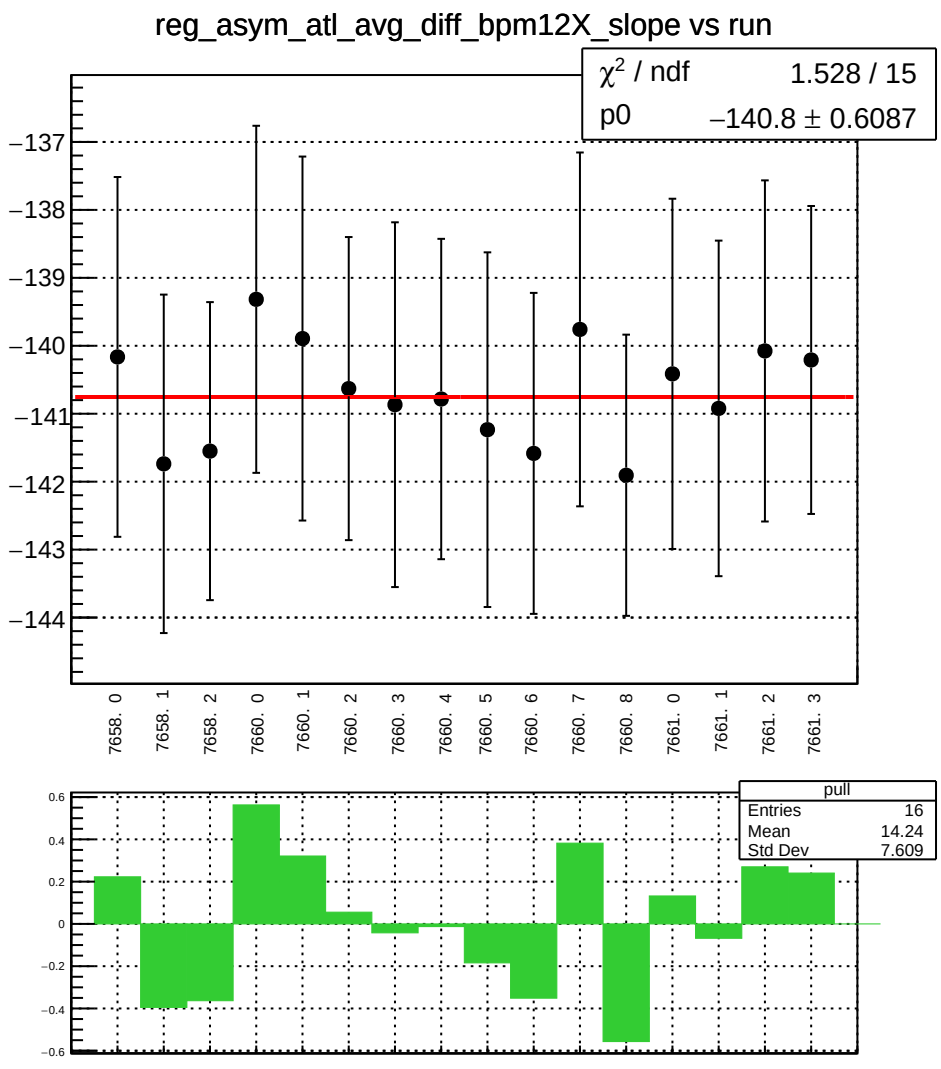

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.8963 / 15
p0 37.13 ± 7.396
80
60
40
20
0
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −157.9
Std Dev 166
0.6
0.4
0.2
0
−0.2
−0.4

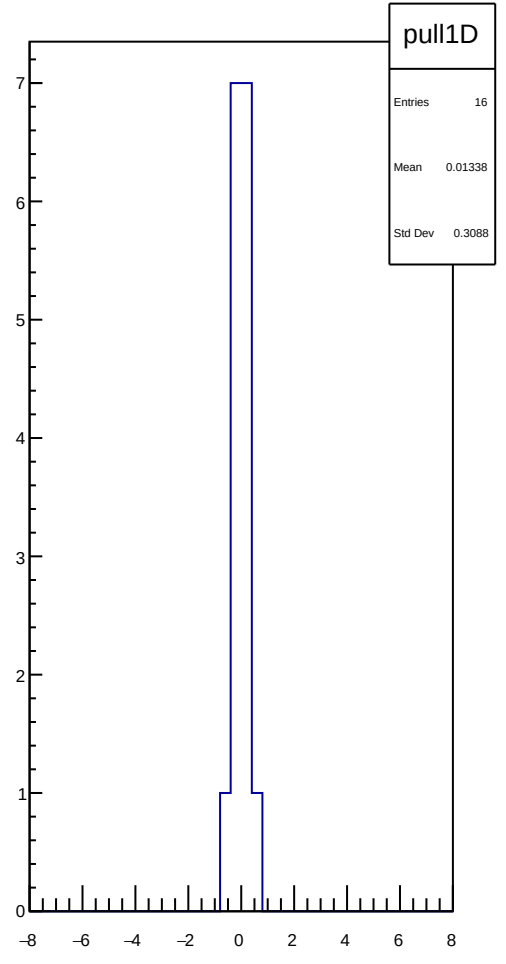

pull1D
Entries 16
Mean 0.002873
Std Dev 0.2367
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

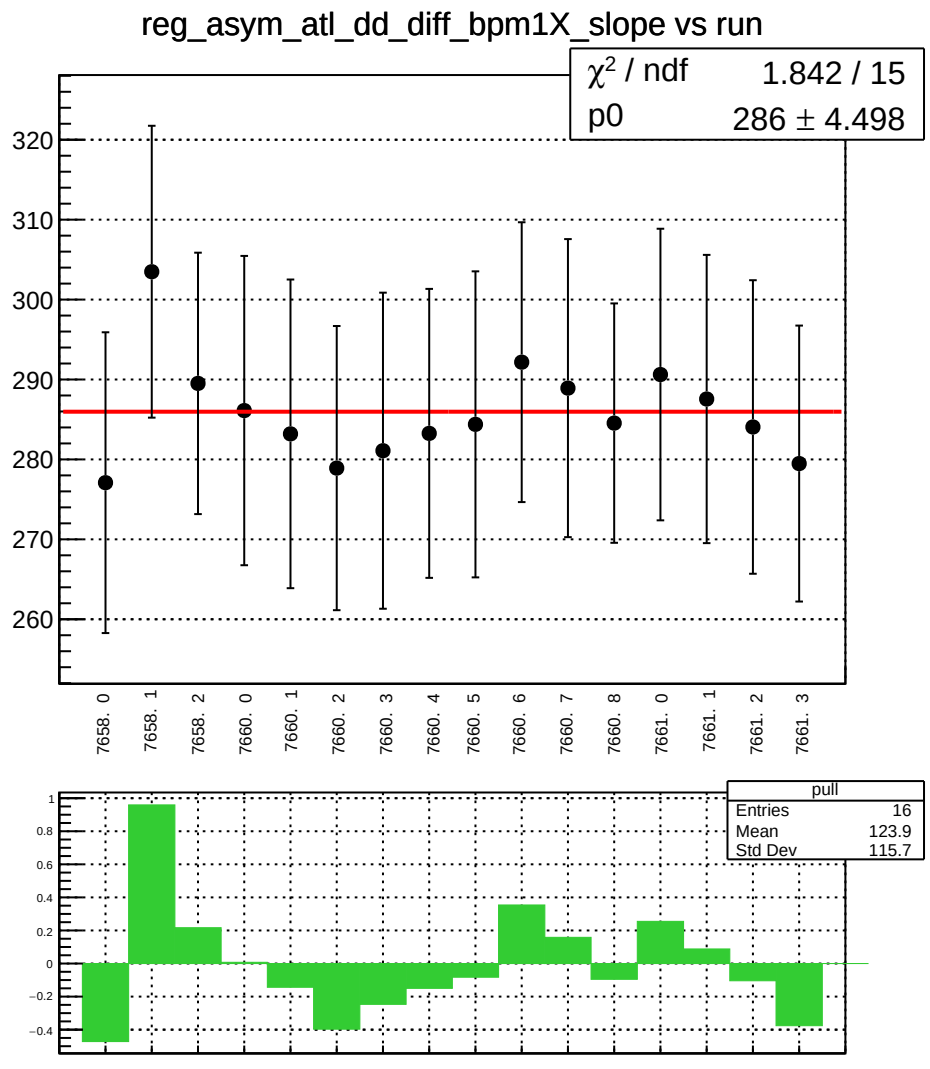

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.511 / 15
p0 272.7 ± 3.772
290
280
270
260
250
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −16.38
Std Dev 19.52
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 16
Mean −0.0121
Std Dev 0.3071
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

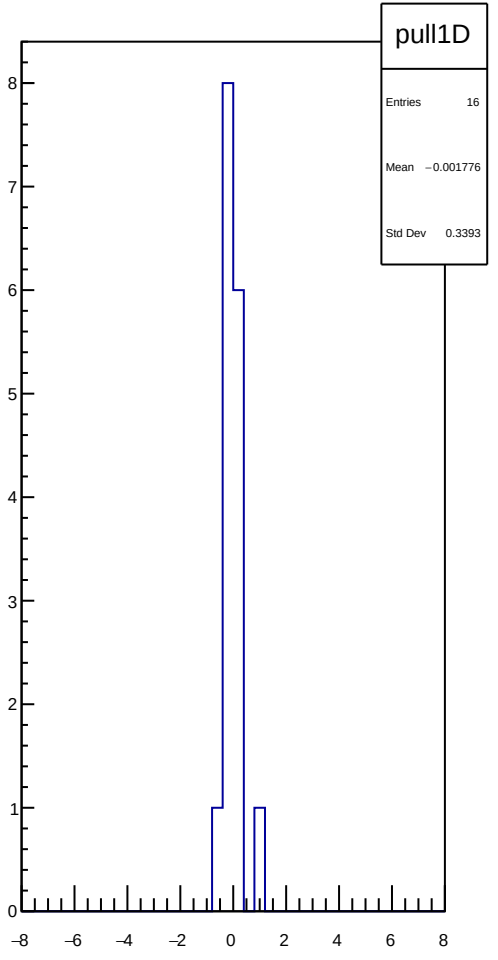

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.8627 / 15
p0 20.72 ± 10.78
80
60
40
20
0
−20
−40
−60
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −179.3
Std Dev 187.4
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5

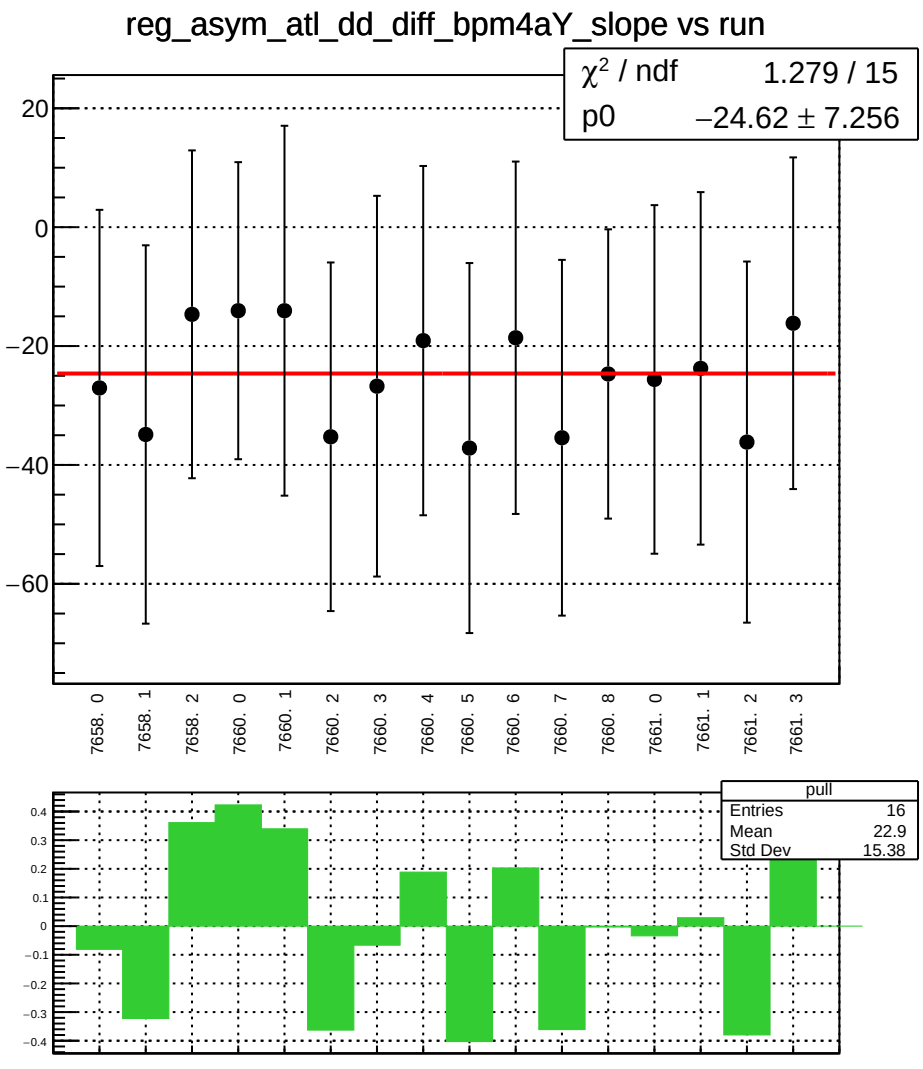

pull1D
Entries 16
Mean −0.002647
Std Dev 0.2322
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

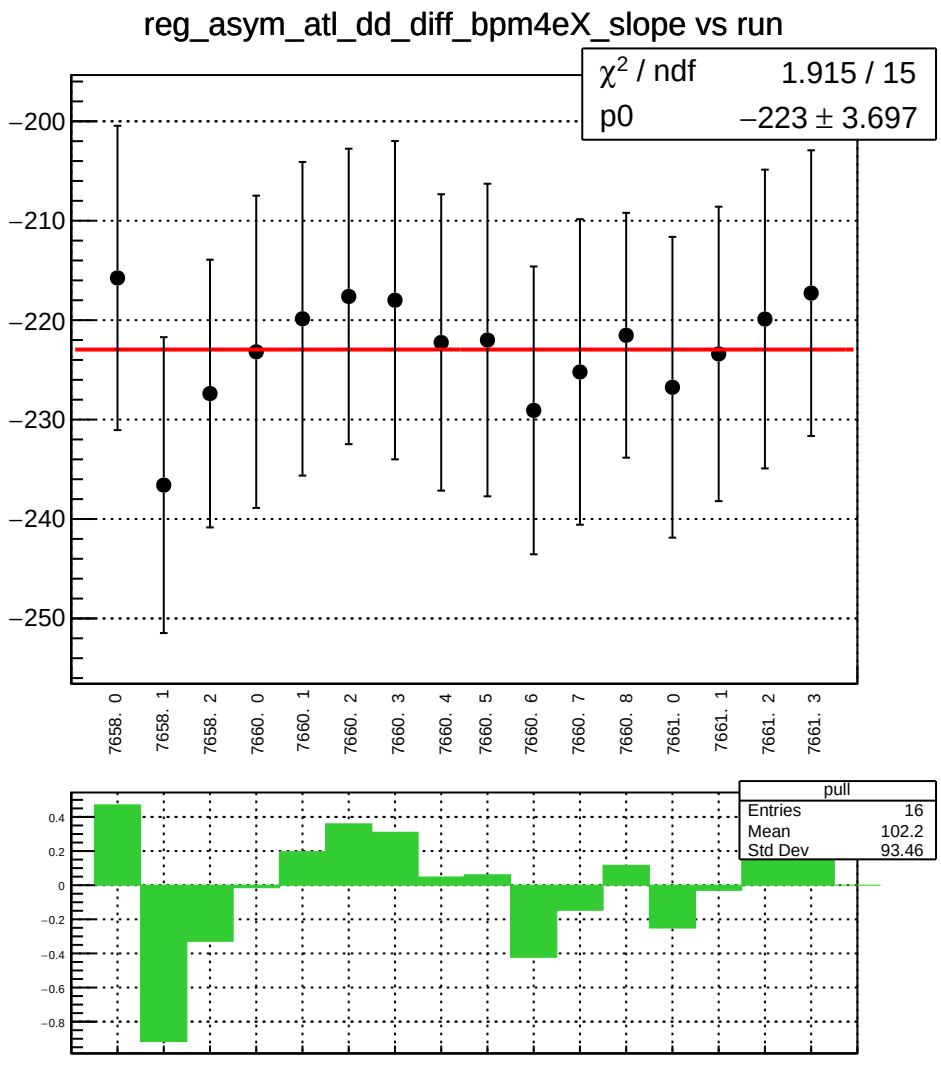

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 1.528 / 15
p0 −140.8 ± 0.6087
−137
−138
−139
−140
−141
−142
−143
−144
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 14.24
Std Dev 7.609
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

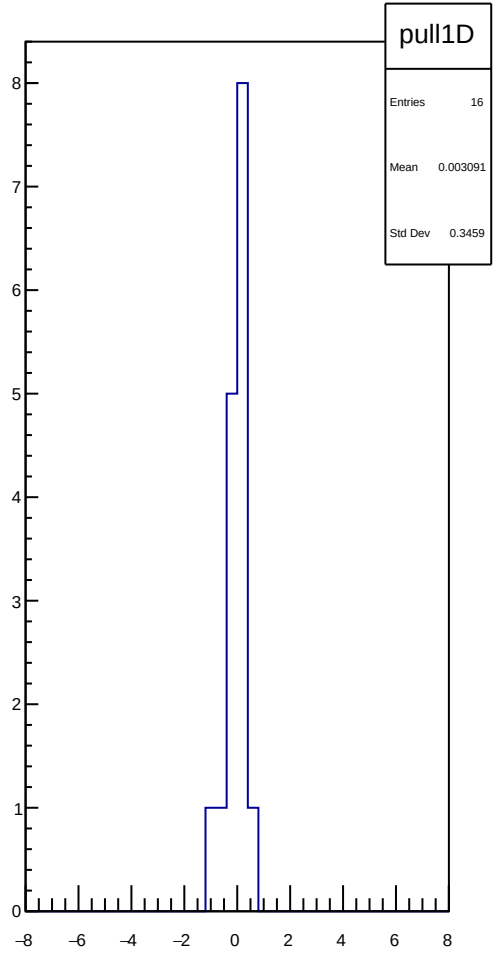

pull1D
Entries 16
Mean 0.01338
Std Dev 0.3088
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

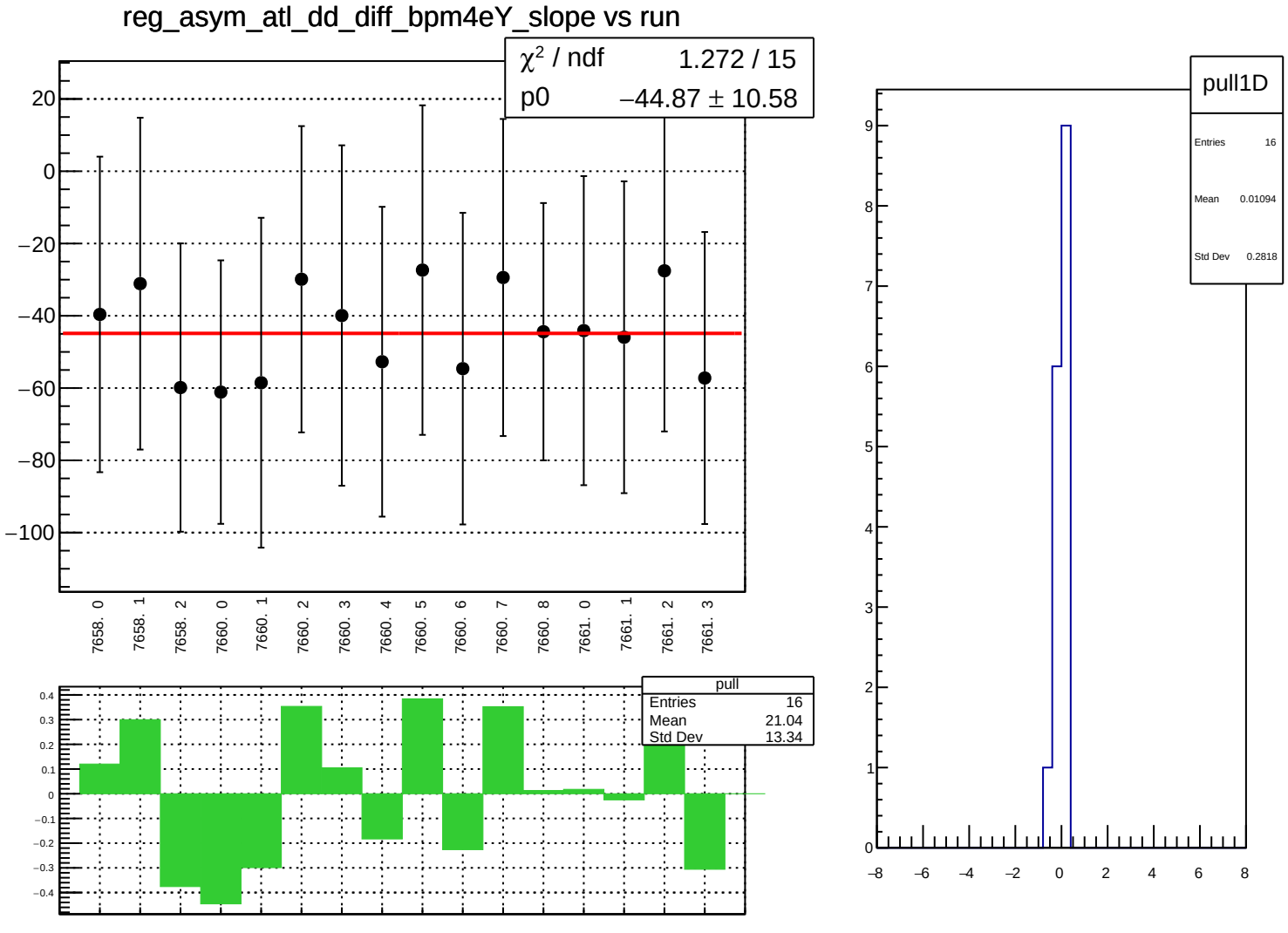

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 1.842 / 15
p0 286 ± 4.498
320
310
300
290
280
270
260
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 123.9
Std Dev 115.7
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4

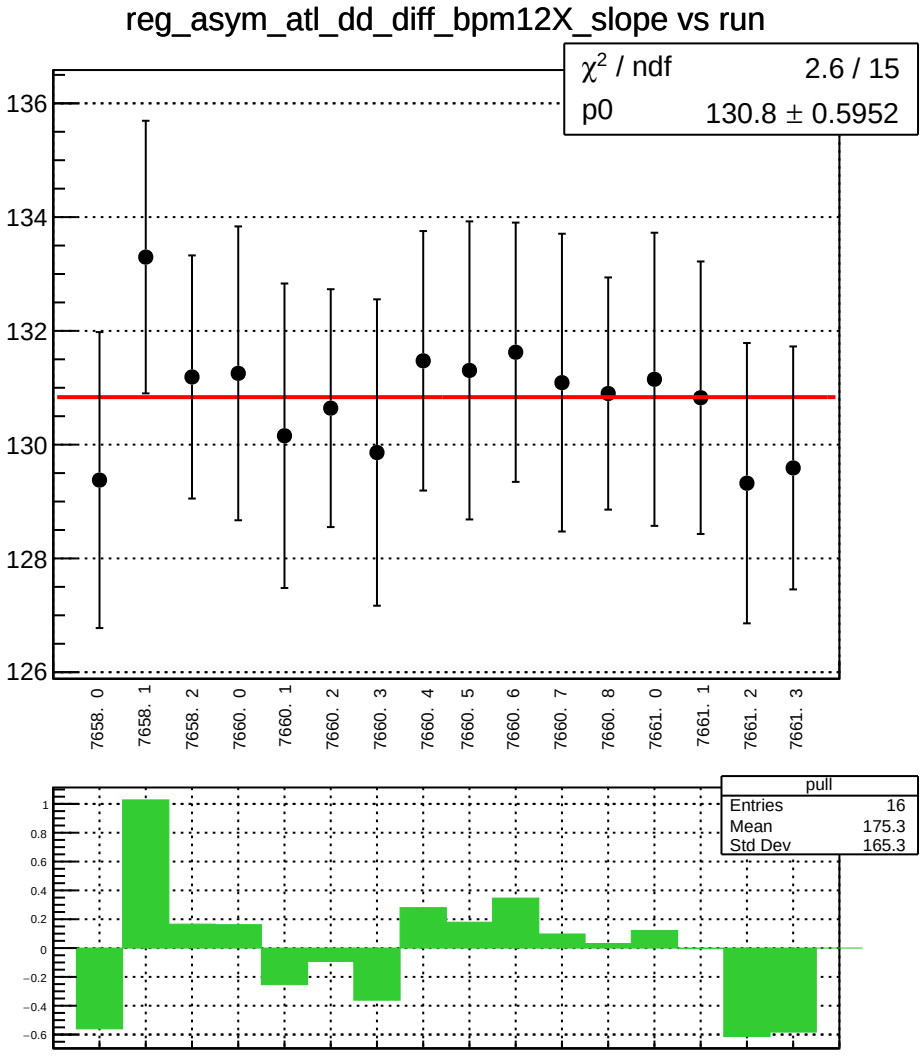

pull1D
Entries 16
Mean −0.001776
Std Dev 0.3393
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

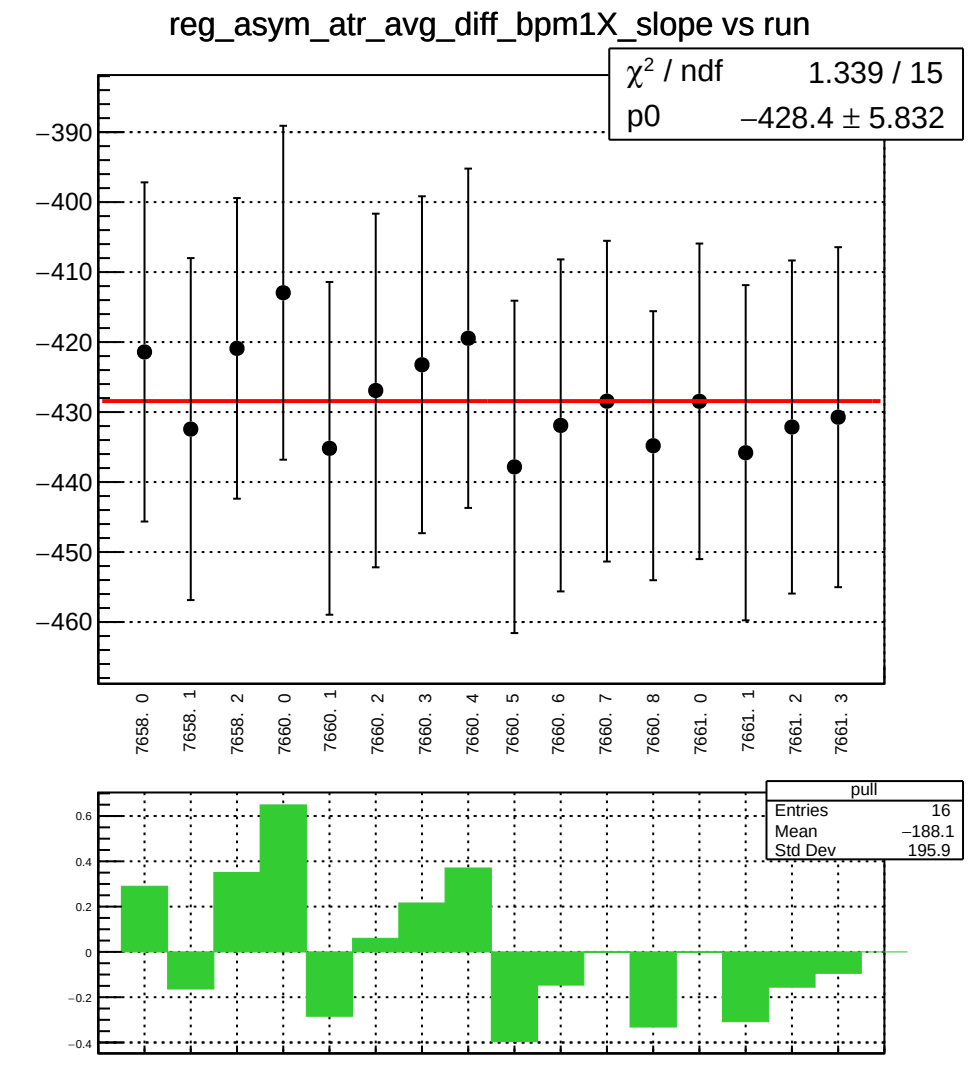

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.279 / 15
p0 −24.62 ± 7.256
20
0
−20
−40
−60
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 22.9
Std Dev 15.38
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 16
Mean −0.01032
Std Dev 0.2825
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

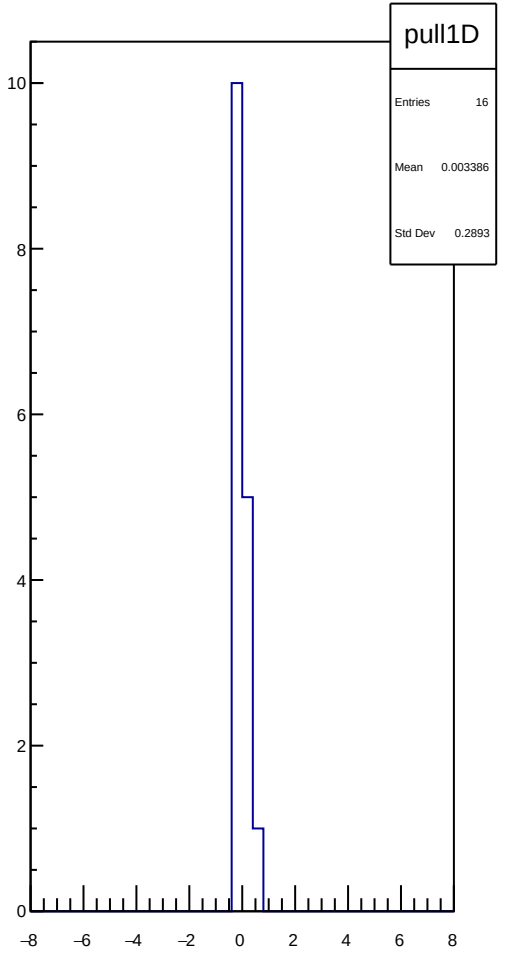

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.915 / 15
p0 −223 ± 3.697
−200
−210
−220
−230
−240
−250
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 102.2
Std Dev 93.46
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

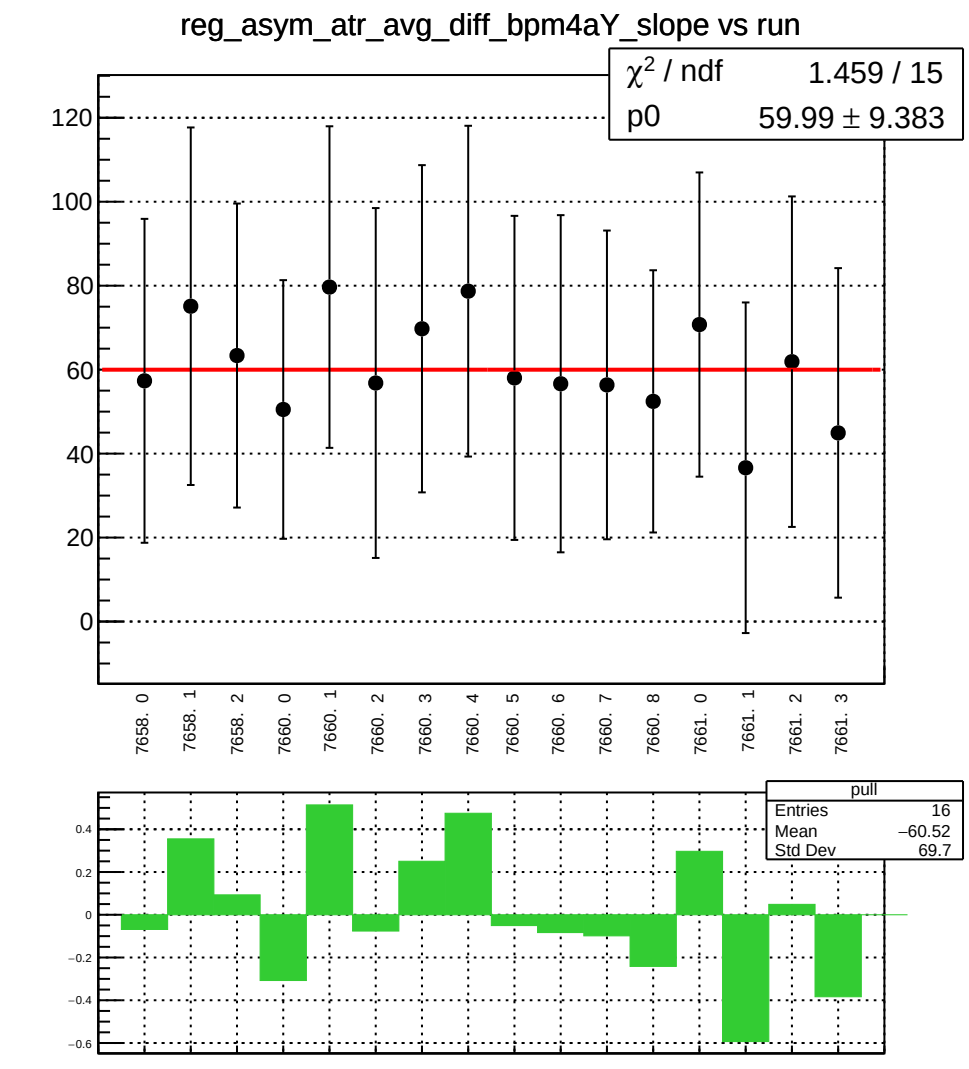

pull1D
Entries 16
Mean 0.003091
Std Dev 0.3459
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

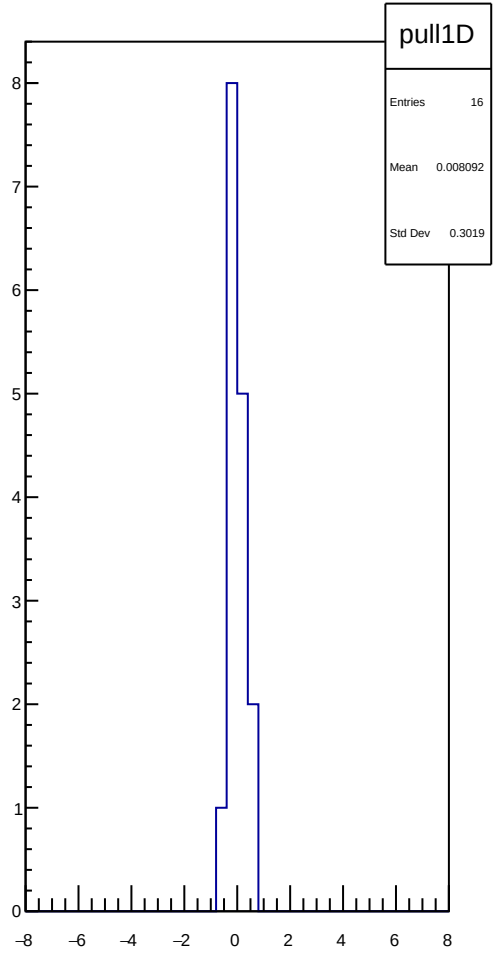

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.272 / 15
p0 −44.87 ± 10.58
20
0
−20
−40
−60
−80
−100
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 21.04
Std Dev 13.34
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 16
Mean 0.01094
Std Dev 0.2818
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

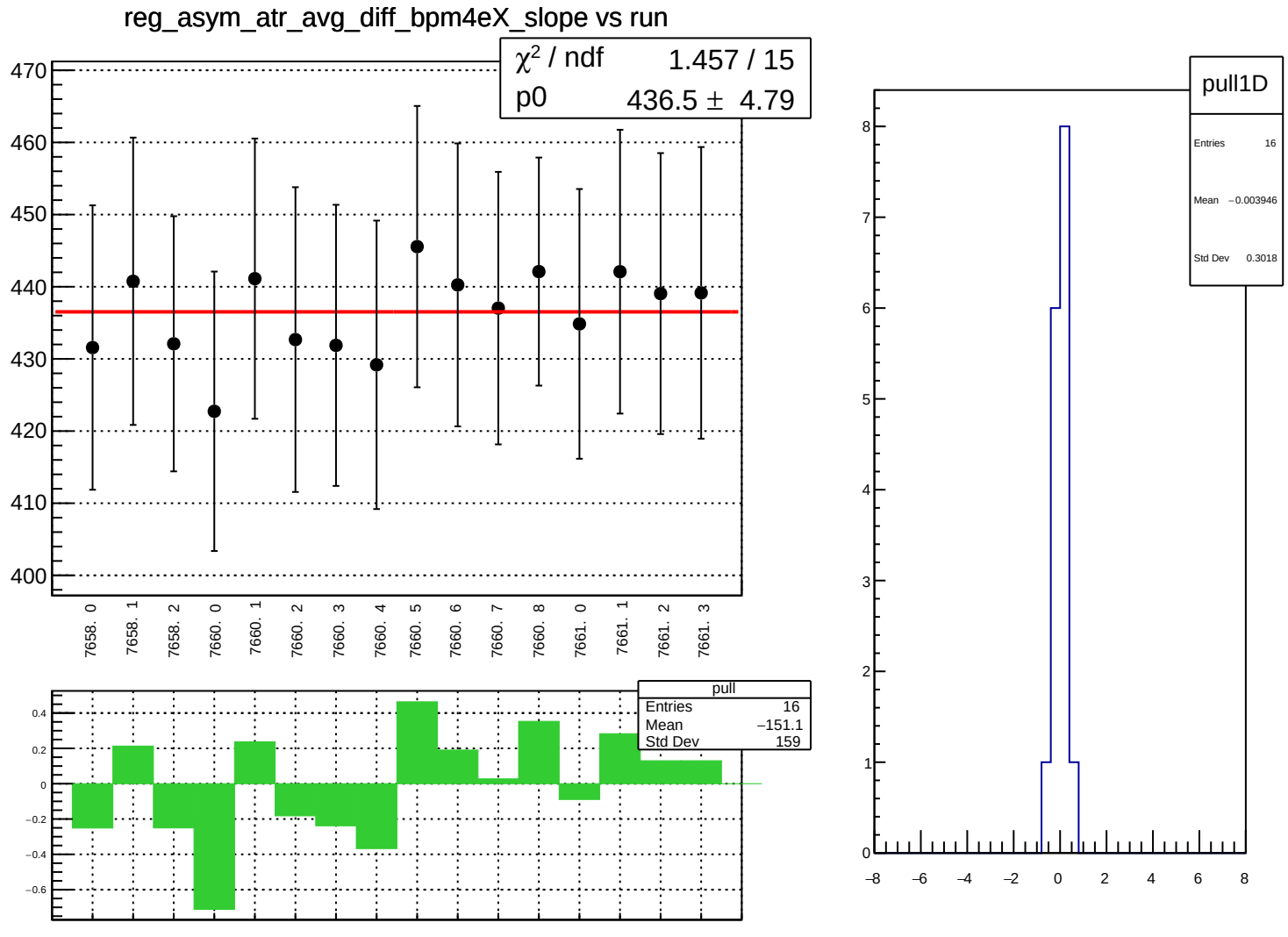

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 2.6 / 15
p0 130.8 ± 0.5952
136
134
132
130
128
126
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 175.3
Std Dev 165.3
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 16
Mean −0.003537
Std Dev 0.4031
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

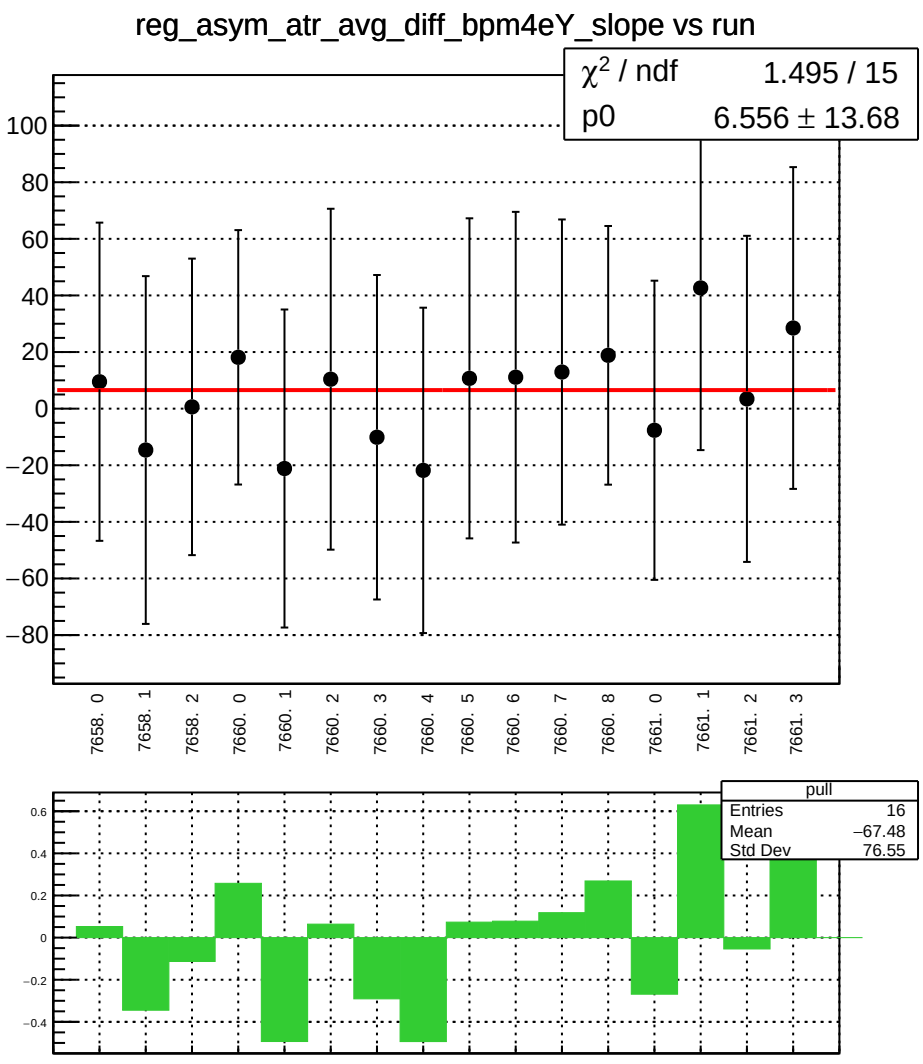

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 1.339 / 15
p0 −428.4 ± 5.832
−390
−400
−410
−420
−430
−440
−450
−460
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −188.1
Std Dev 195.9
0.6
0.4
0.2
0
−0.2
−0.4

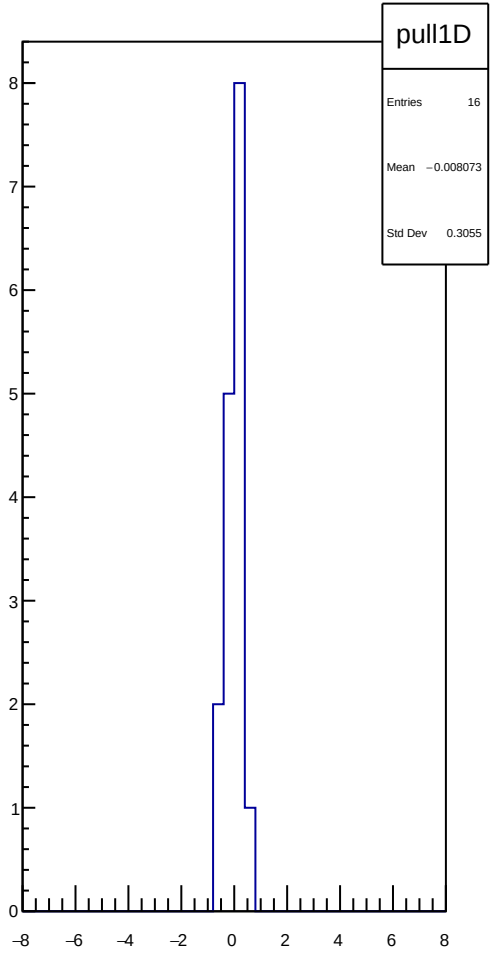

pull1D
Entries 16
Mean 0.003386
Std Dev 0.2893
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

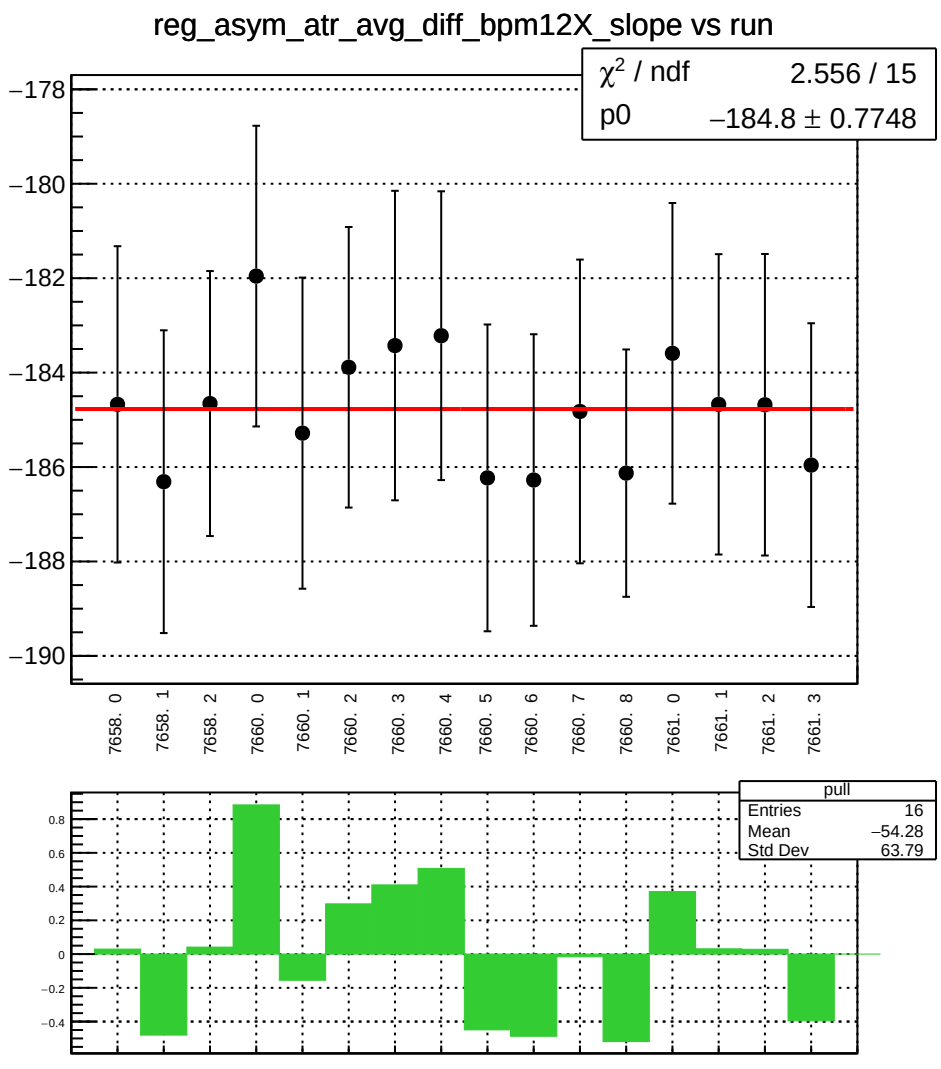

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.459 / 15
p0 59.99 ± 9.383
120
100
80
60
40
20
0
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −60.52
Std Dev 69.7
0.4
0.2
0
−0.2
−0.4
−0.6

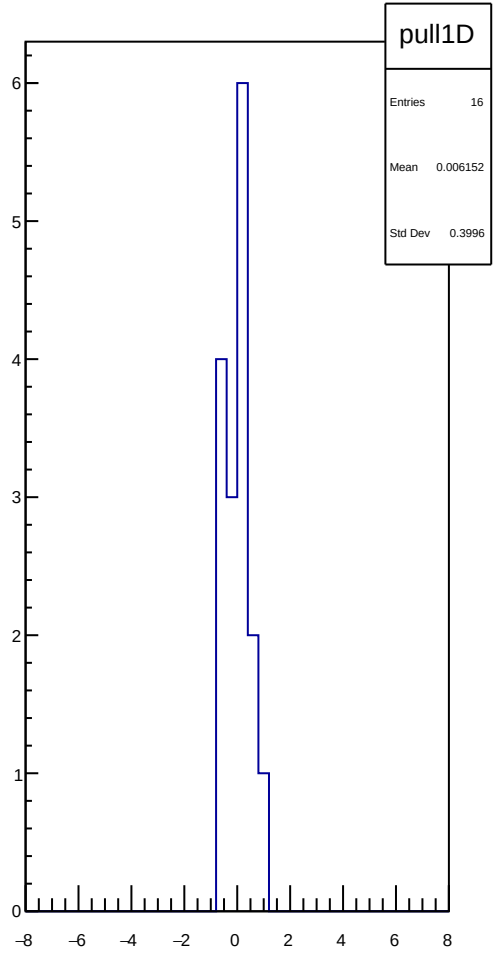

pull1D
Entries 16
Mean 0.008092
Std Dev 0.3019
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

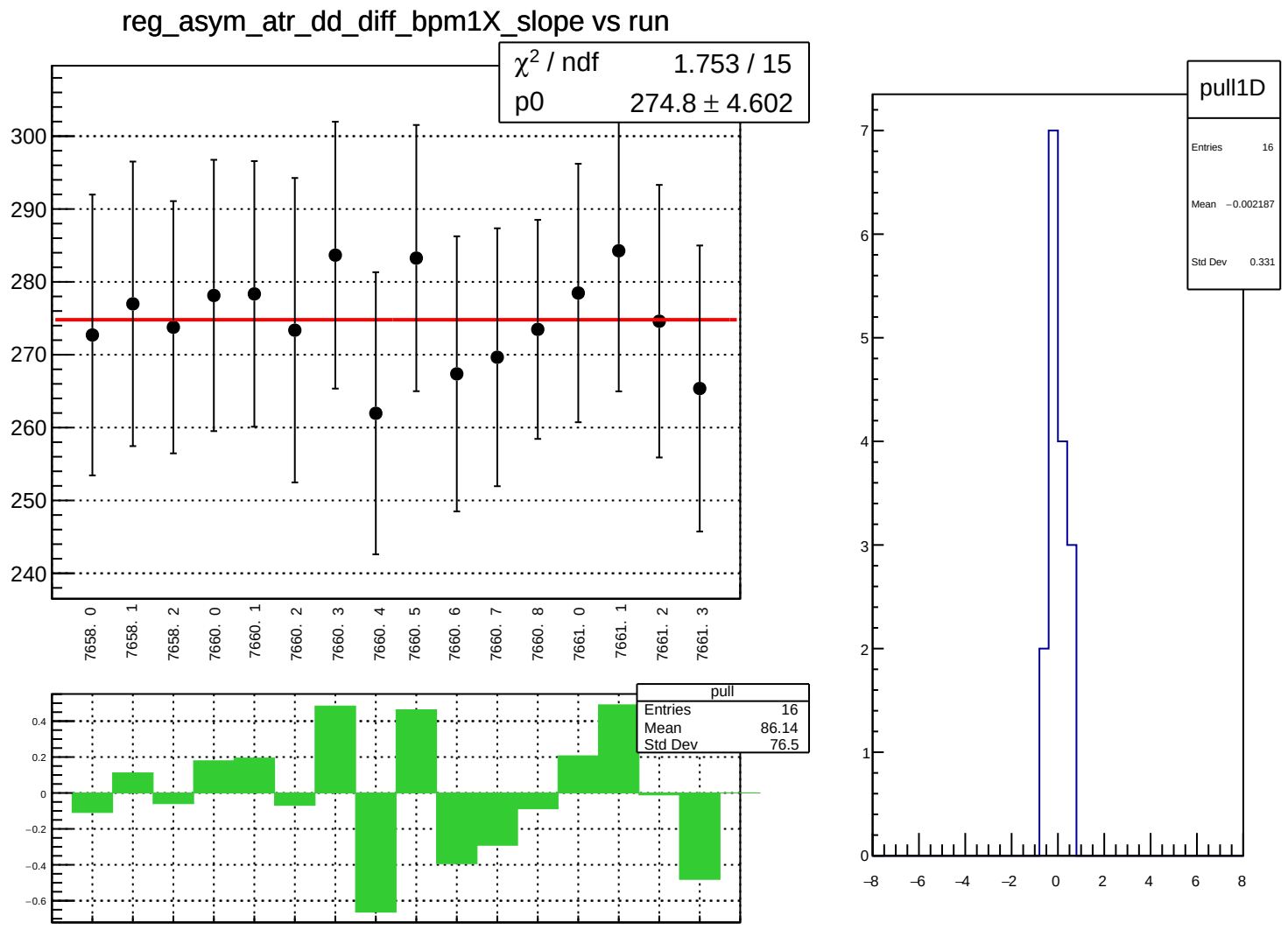

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.457 / 15
p0 436.5 ± 4.79
470
460
450
440
430
420
410
400
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −151.1
Std Dev 159
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 16
Mean −0.003946
Std Dev 0.3018
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

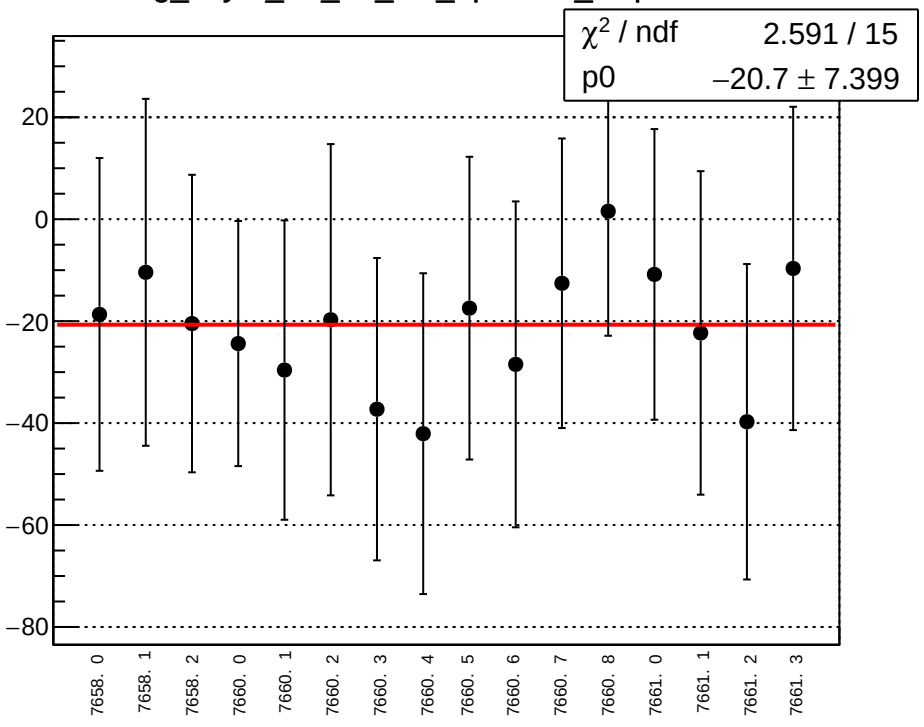

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.495 / 15
p0 6.556 ± 13.68
100
80
60
40
20
0
−20
−40
−60
−80
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −67.48
Std Dev 76.55
0.6
0.4
0.2
0
−0.2
−0.4

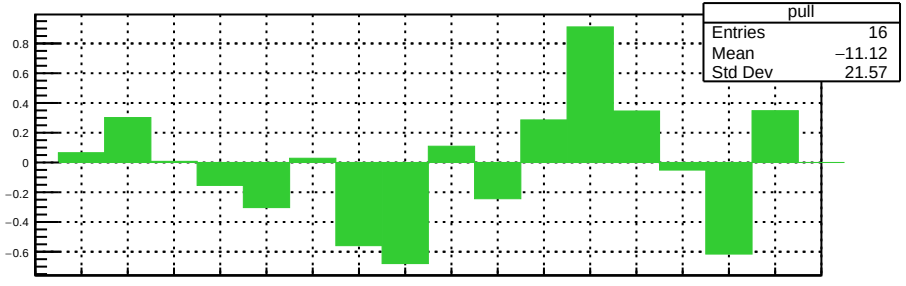

pull1D
Entries 16
Mean −0.008073
Std Dev 0.3055
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

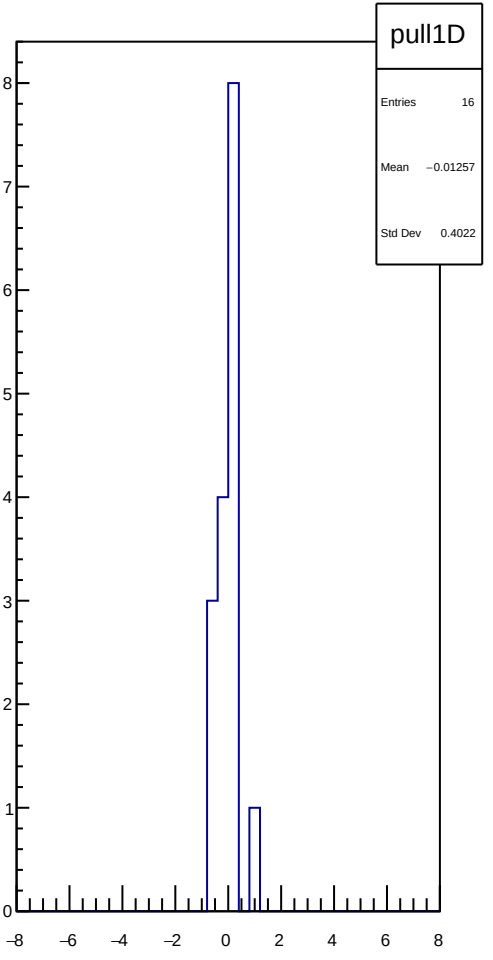

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 2.556 / 15
p0 −184.8 ± 0.7748
−178
−180
−182
−184
−186
−188
−190
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −54.28
Std Dev 63.79
0.8
0.6
0.4
0.2
0
−0.2
−0.4

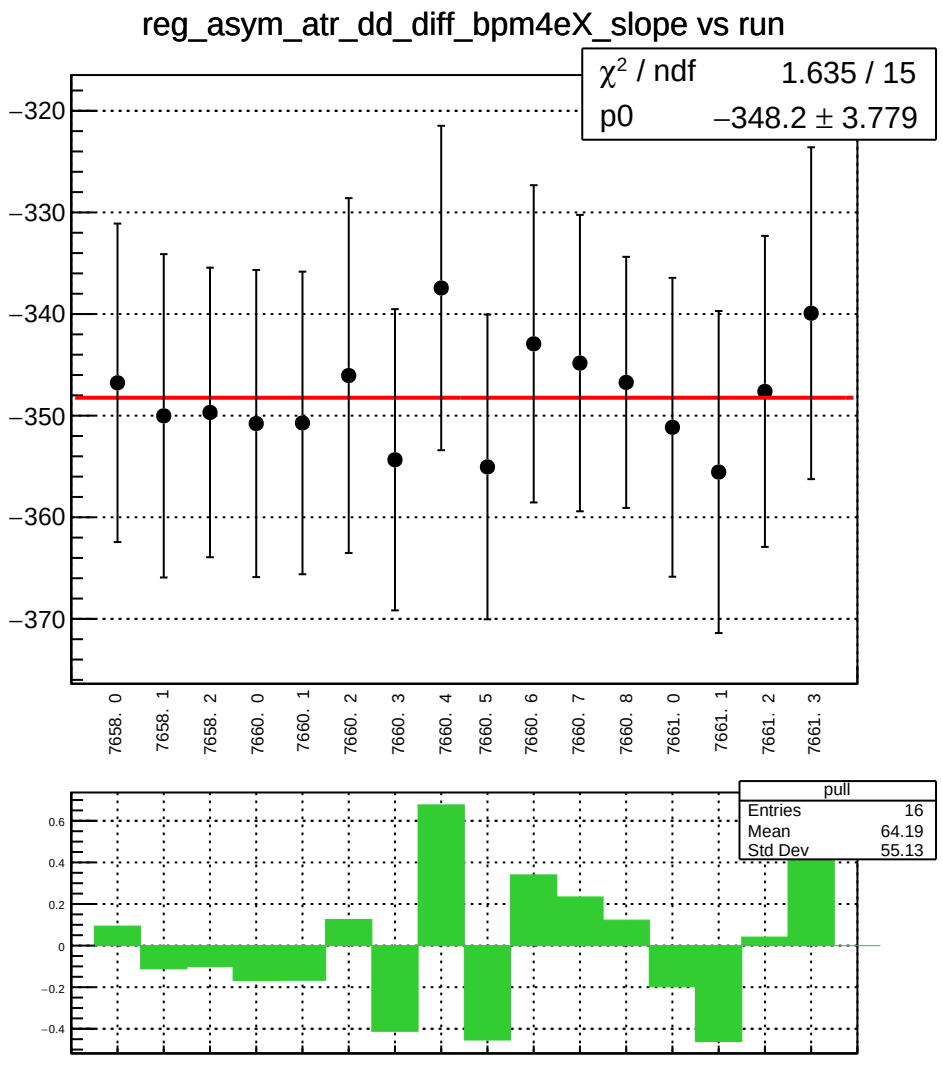

pull1D
Entries 16
Mean 0.006152
Std Dev 0.3996
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

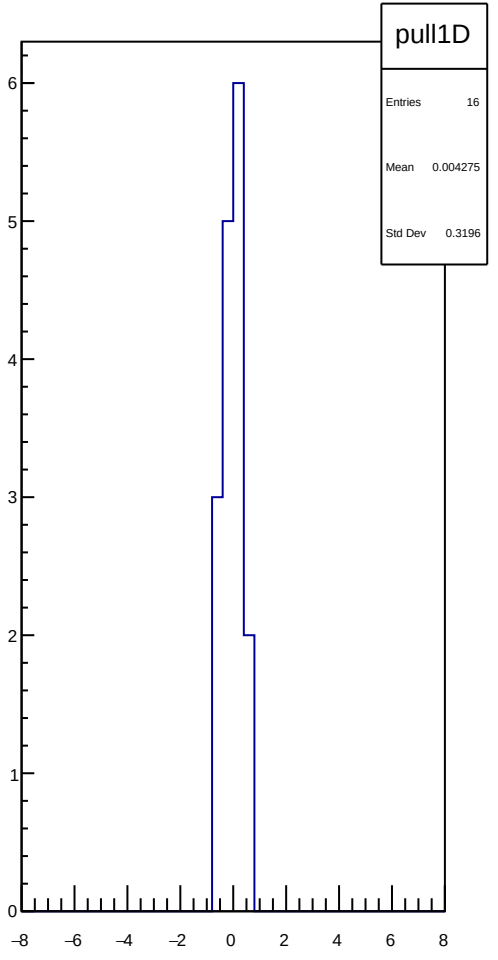

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 1.753 / 15
p0 274.8 ± 4.602
300
290
280
270
260
250
240
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 86.14
Std Dev 76.5
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 16
Mean −0.002187
Std Dev 0.331
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

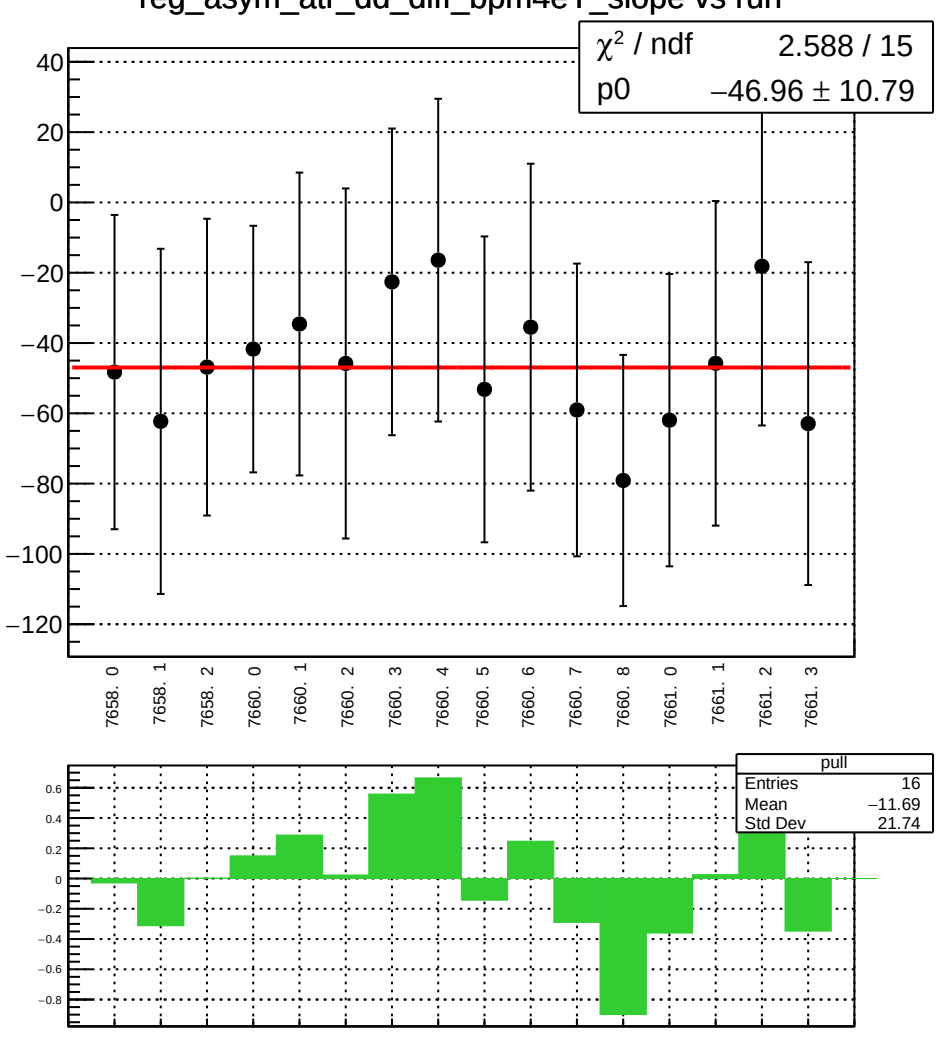

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.591 / 15
p0 −20.7 ± 7.399
20
0
−20
−40
−60
−80
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

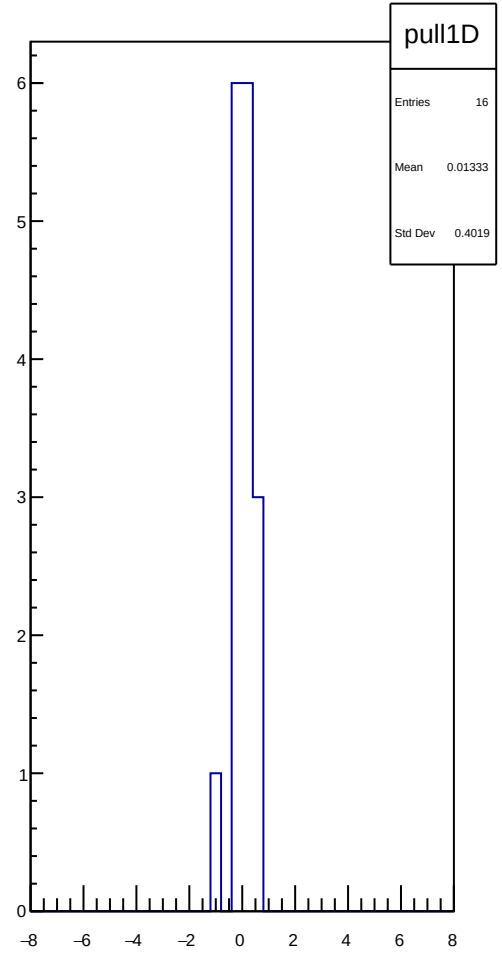

pull
Entries 16
Mean −11.12
Std Dev 21.57
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

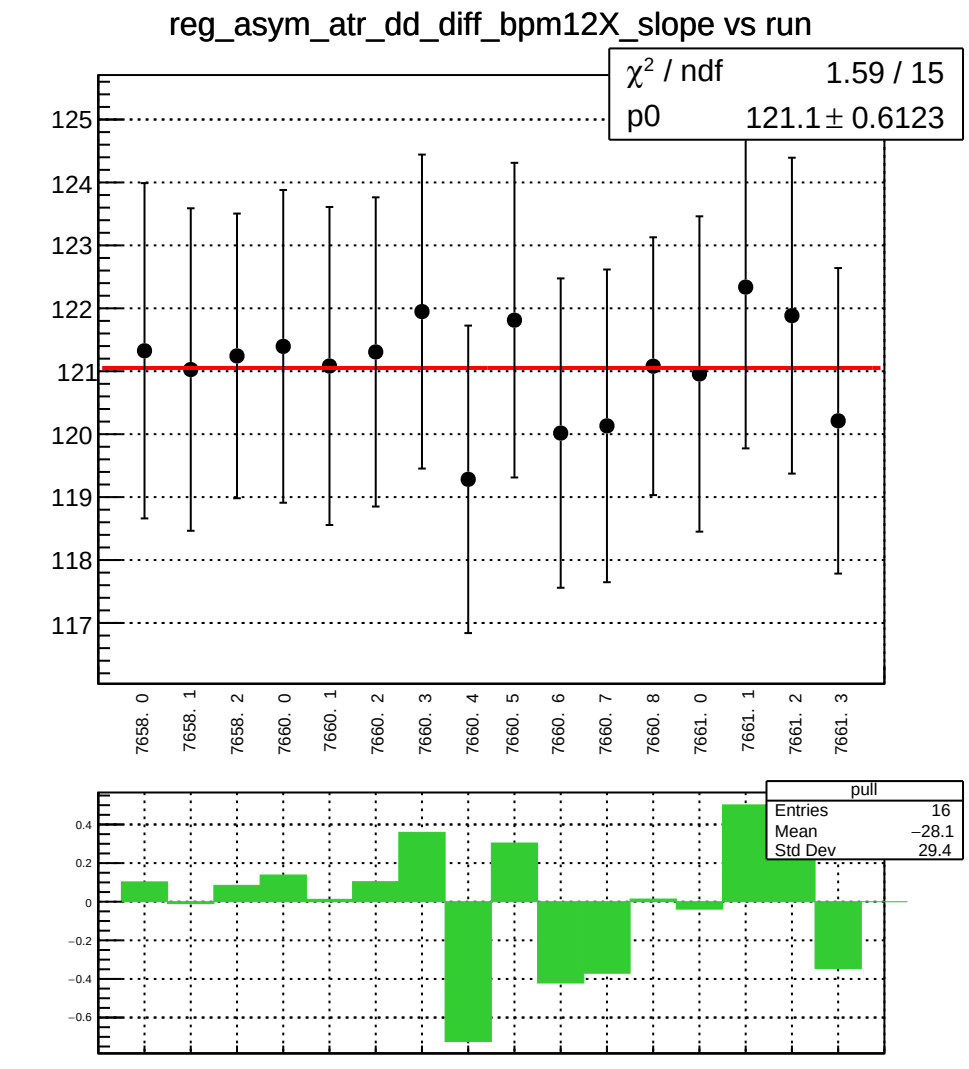

pull1D
Entries 16
Mean −0.01257
Std Dev 0.4022
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

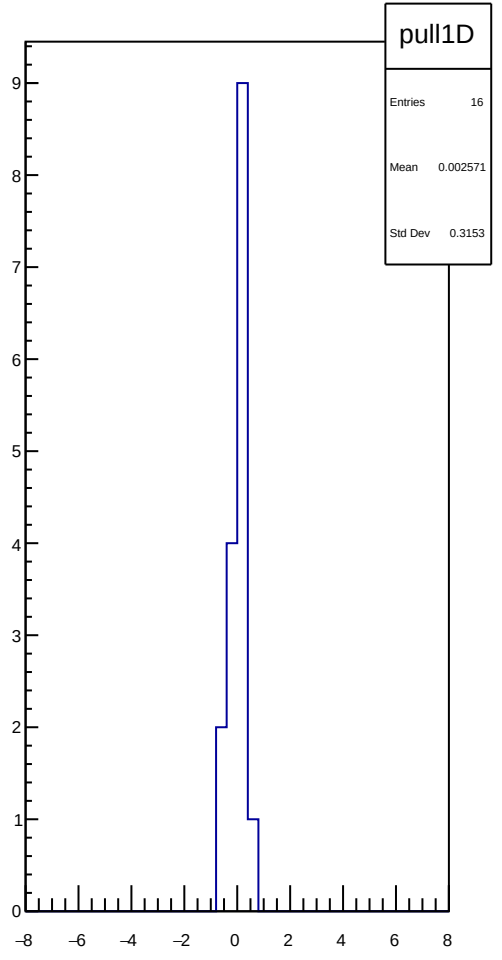

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.635 / 15
p0 −348.2 ± 3.779
−320
−330
−340
−350
−360
−370
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 64.19
Std Dev 55.13
0.6
0.4
0.2
0
−0.2
−0.4

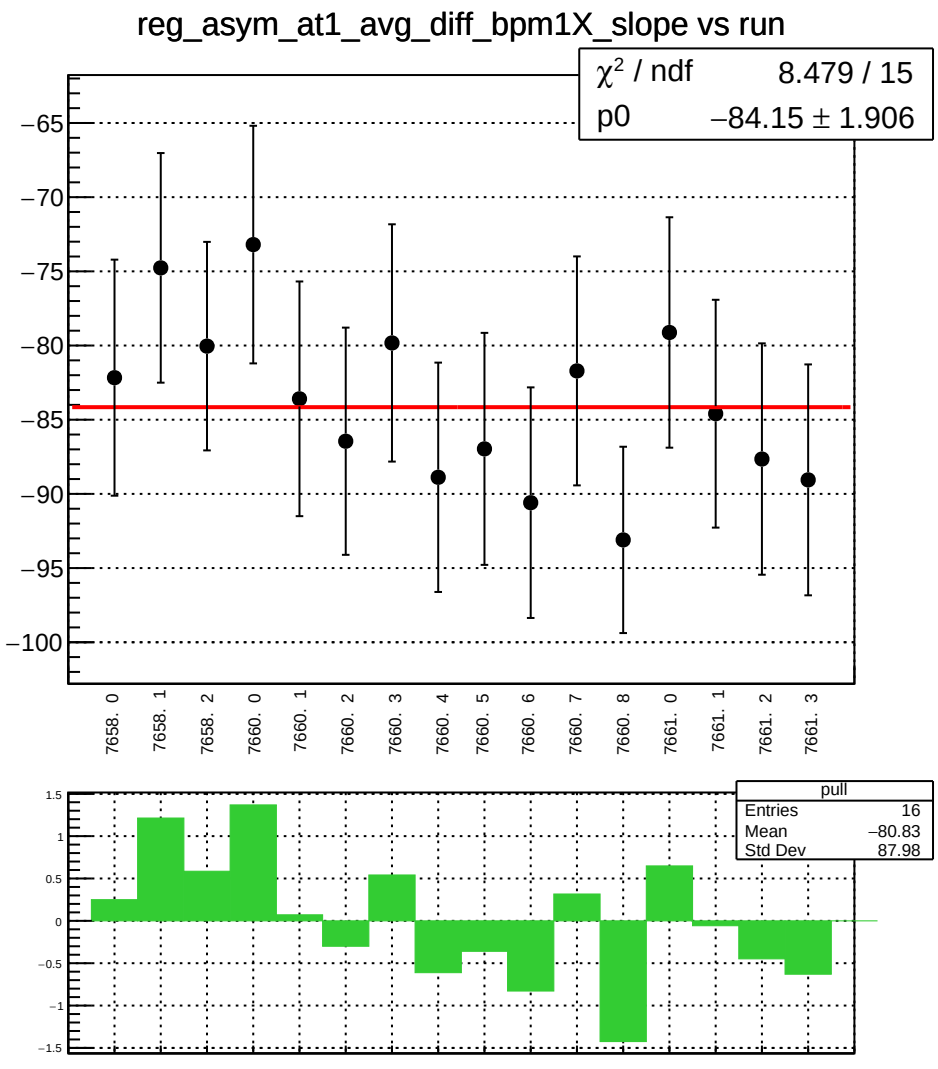

pull1D
Entries 16
Mean 0.004275
Std Dev 0.3196
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

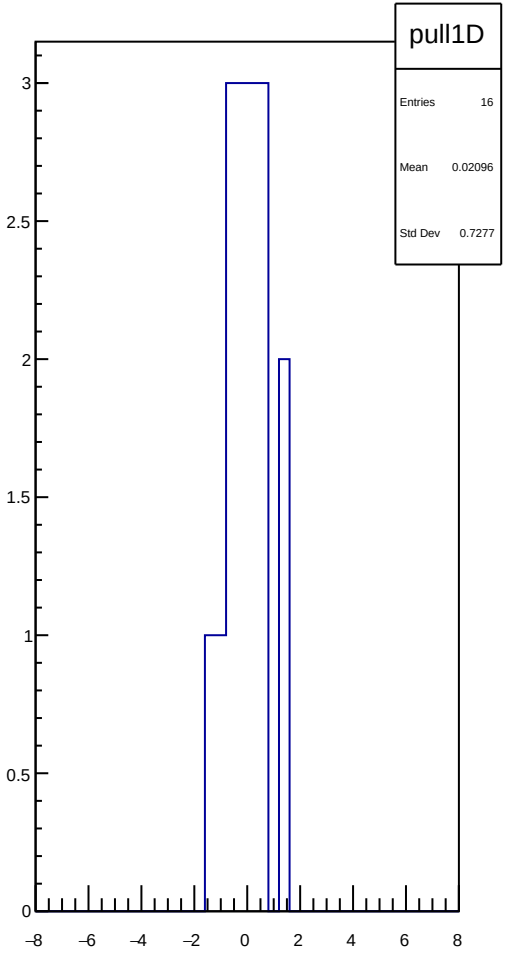

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.588 / 15
p0 −46.96 ± 10.79
40
20
0
−20
−40
−60
−80
−100
−120
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −11.69
Std Dev 21.74
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

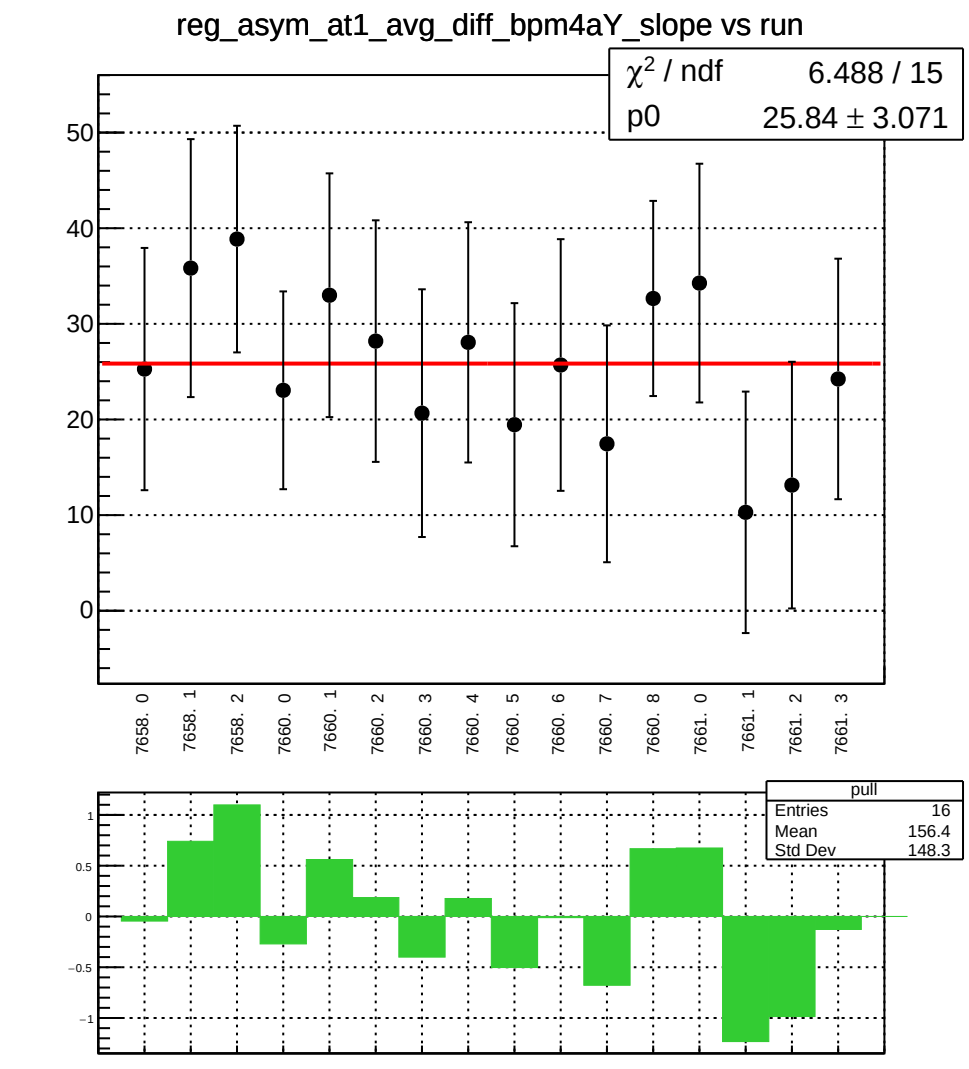

pull1D
Entries 16
Mean 0.01333
Std Dev 0.4019
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

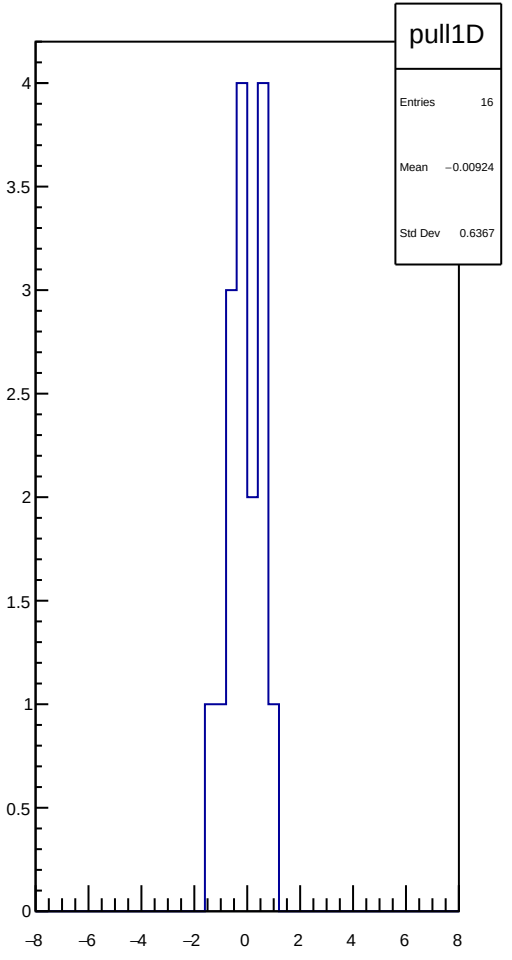

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 1.59 / 15
p0 121.1 ± 0.6123
125
124
123
122
121
120
119
118
117
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −28.1
Std Dev 29.4
0.4
0.2
0
−0.2
−0.4
−0.6

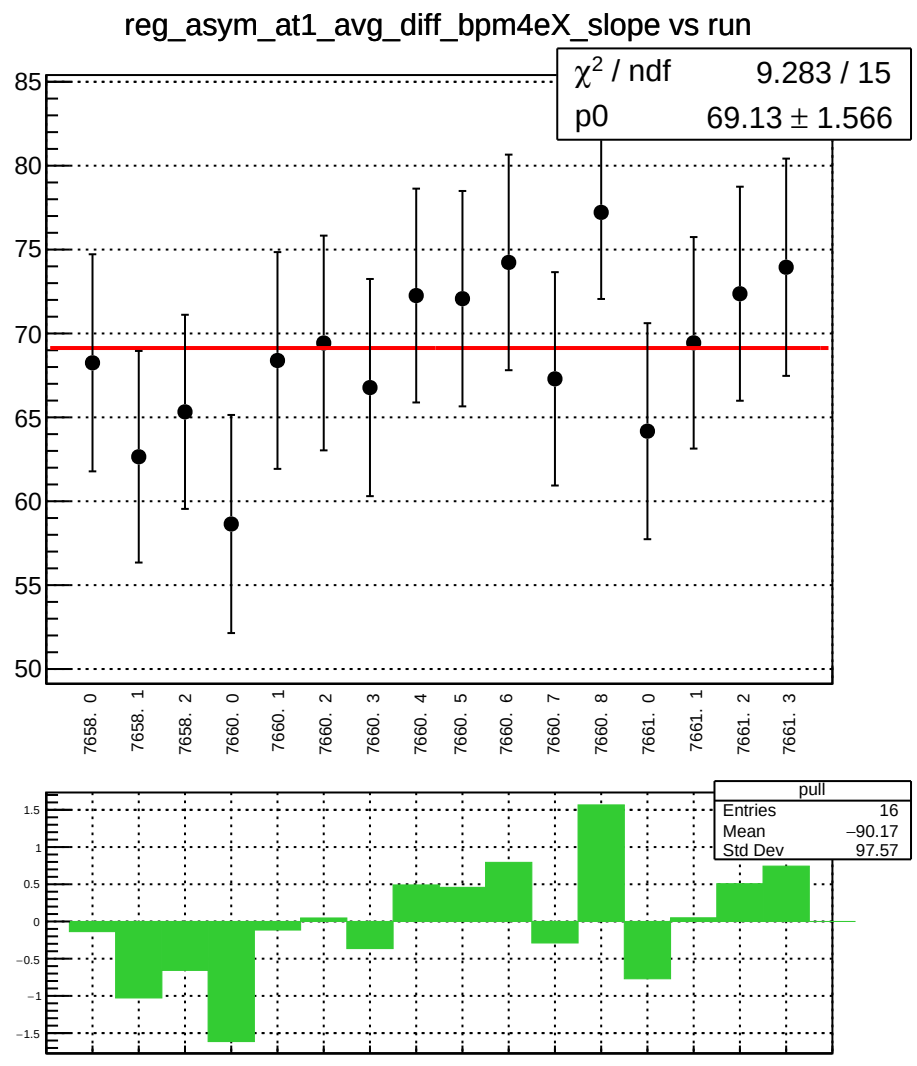

pull1D
Entries 16
Mean 0.002571
Std Dev 0.3153
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

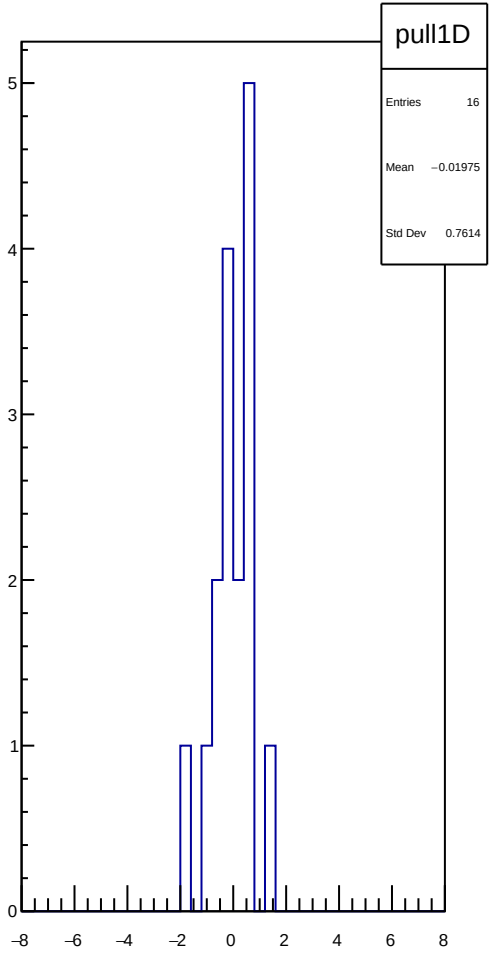

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 8.479 / 15
p0 −84.15 ± 1.906
−65
−70
−75
−80
−85
−90
−95
−100
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −80.83
Std Dev 87.98
1.5
1
0.5
0
−0.5
−1
−1.5

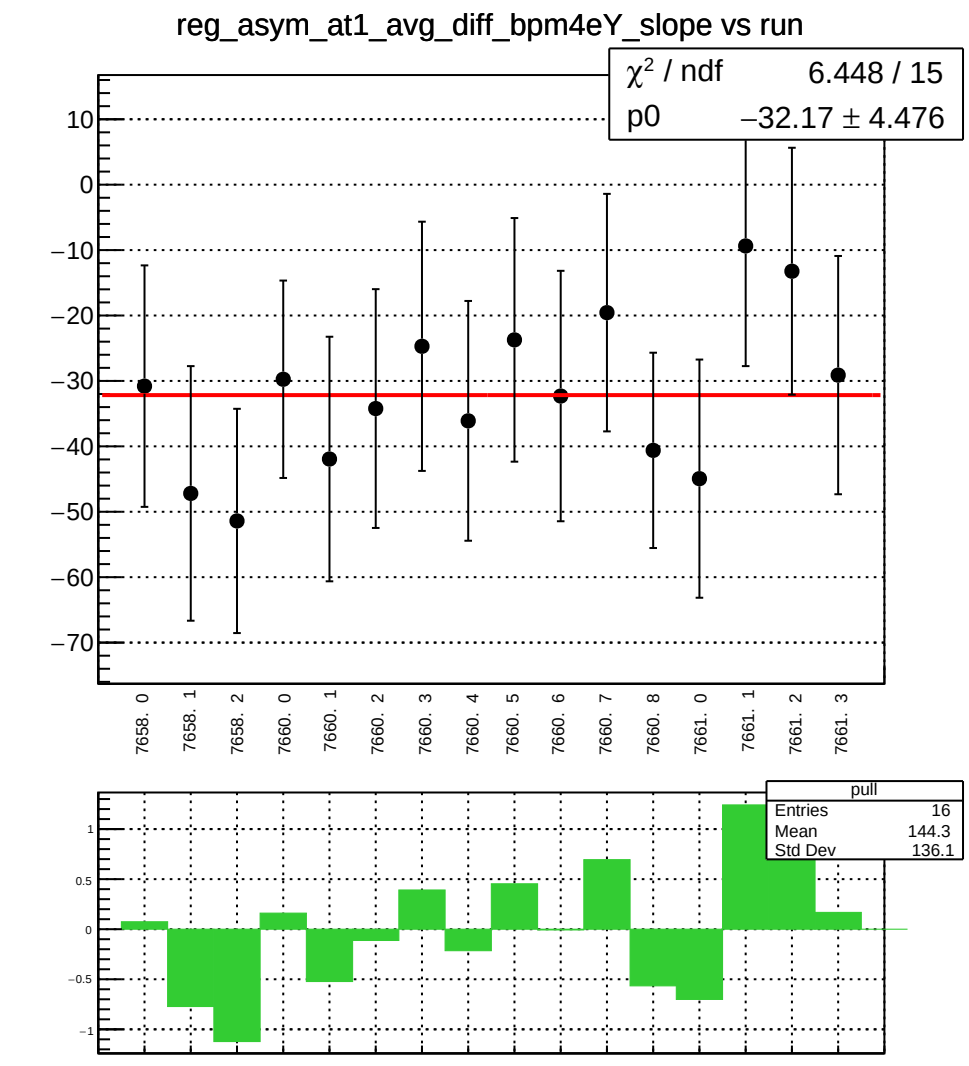

pull1D
Entries 16
Mean 0.02096
Std Dev 0.7277
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

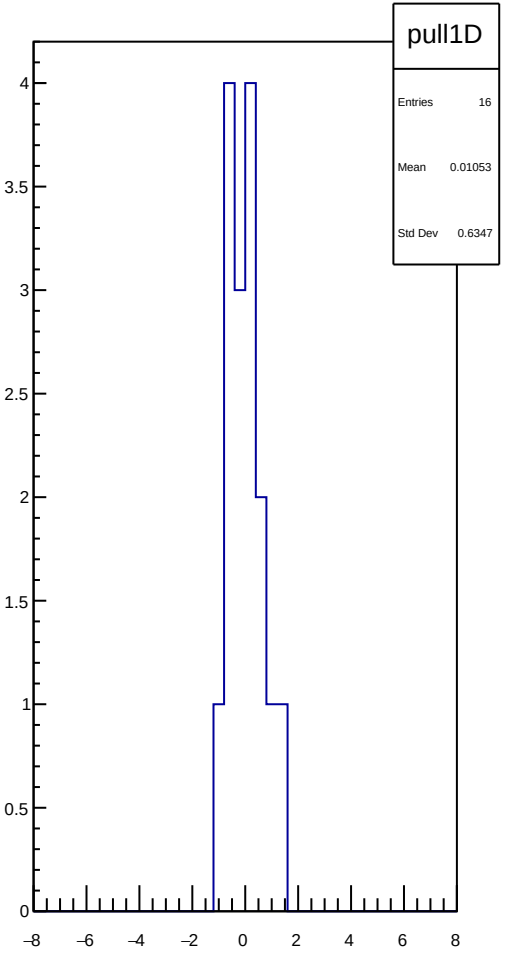

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.488 / 15
p0 25.84 ± 3.071
50
40
30
20
10
0
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 156.4
Std Dev 148.3
1
0.5
0
−0.5
−1

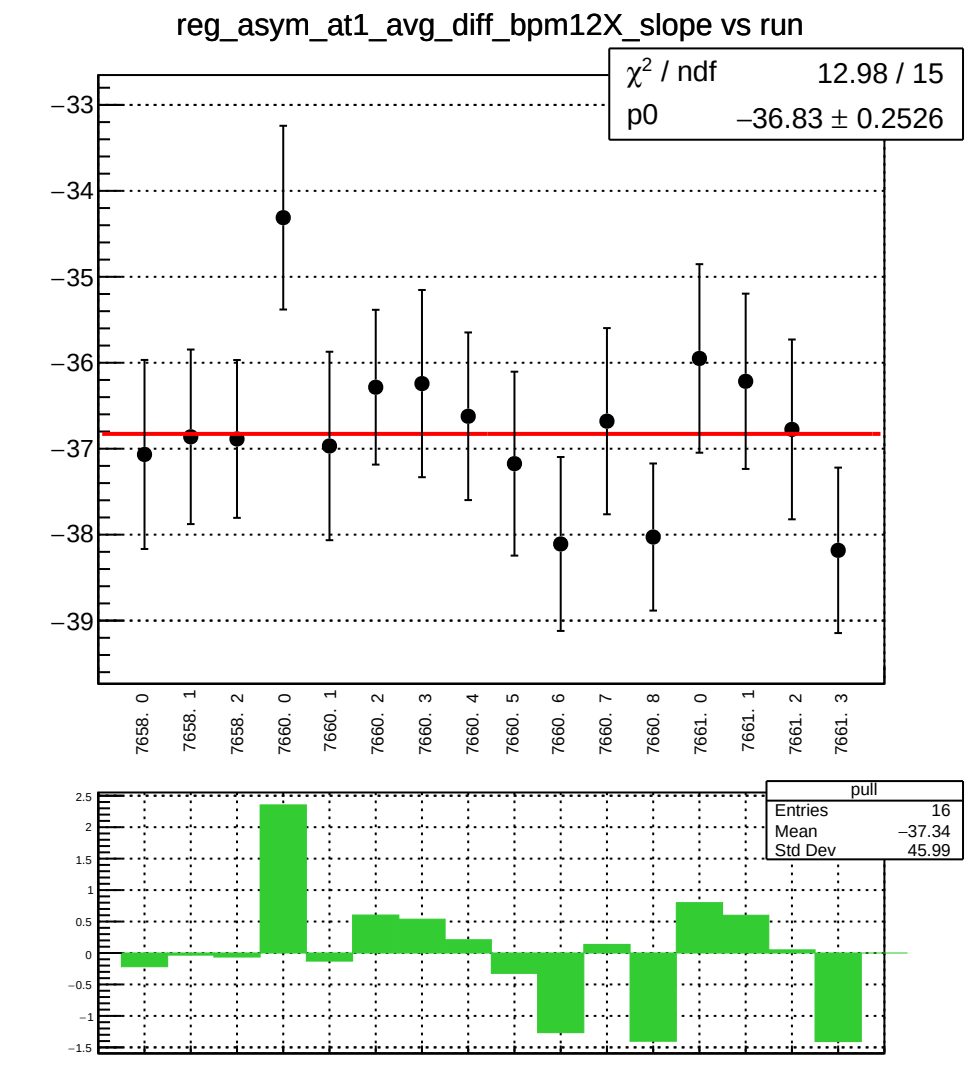

pull1D
Entries 16
Mean −0.00924
Std Dev 0.6367
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

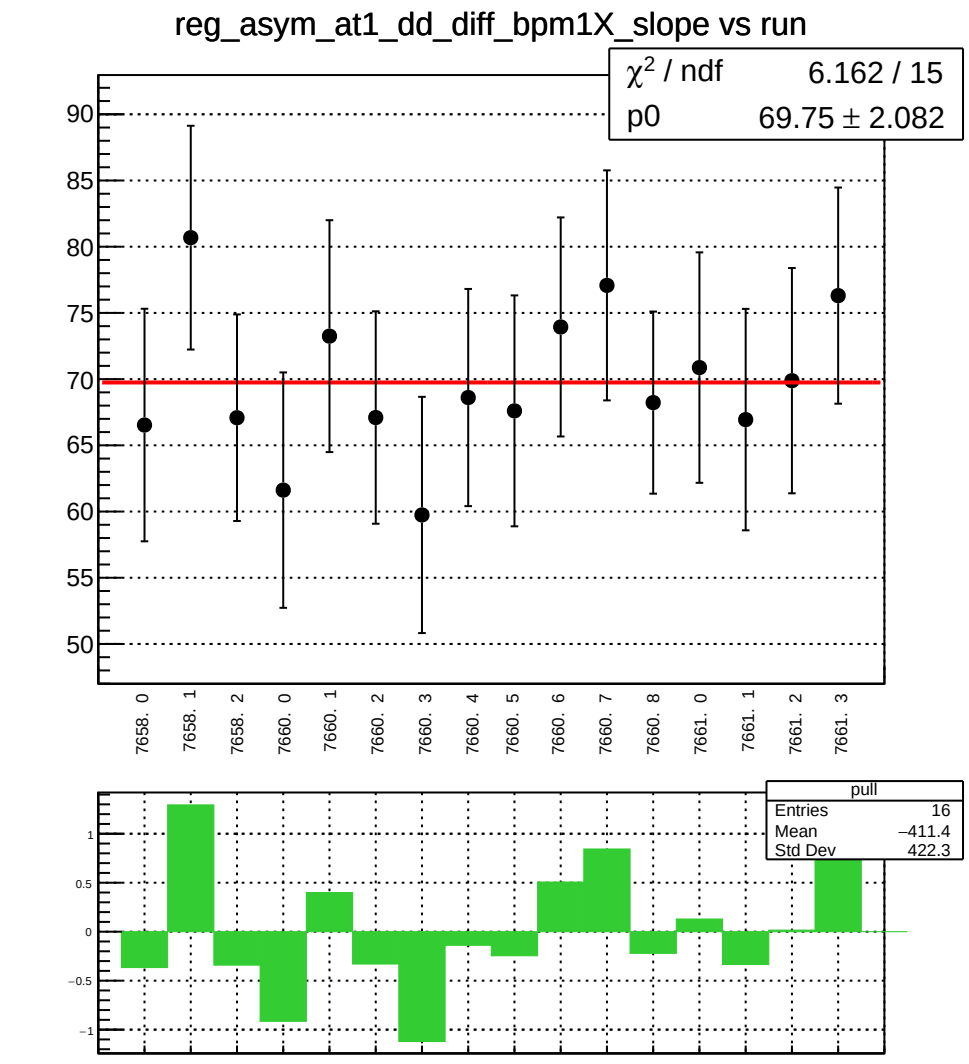

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.283 / 15
p0 69.13 ± 1.566
85
80
75
70
65
60
55
50
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −90.17
Std Dev 97.57
1.5
1
0.5
0
−0.5
−1
−1.5

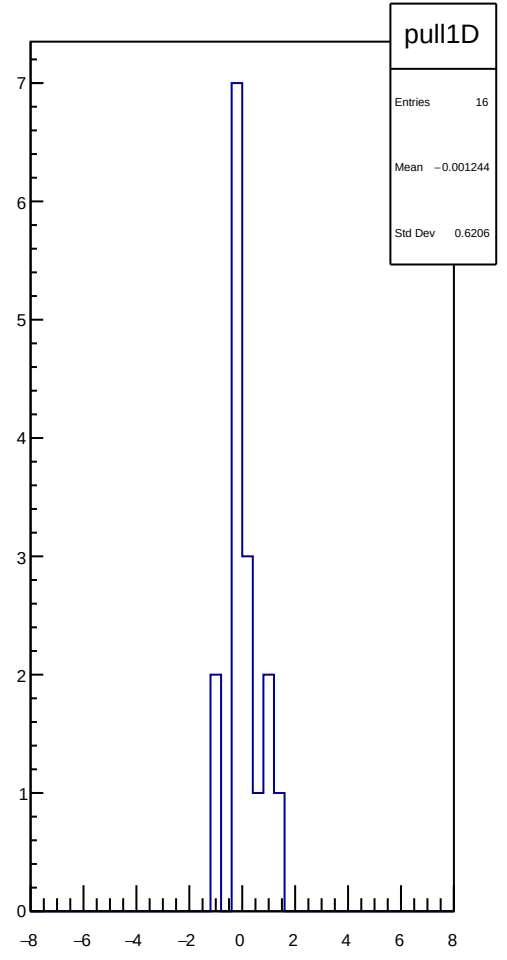

pull1D
Entries 16
Mean −0.01975
Std Dev 0.7614
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

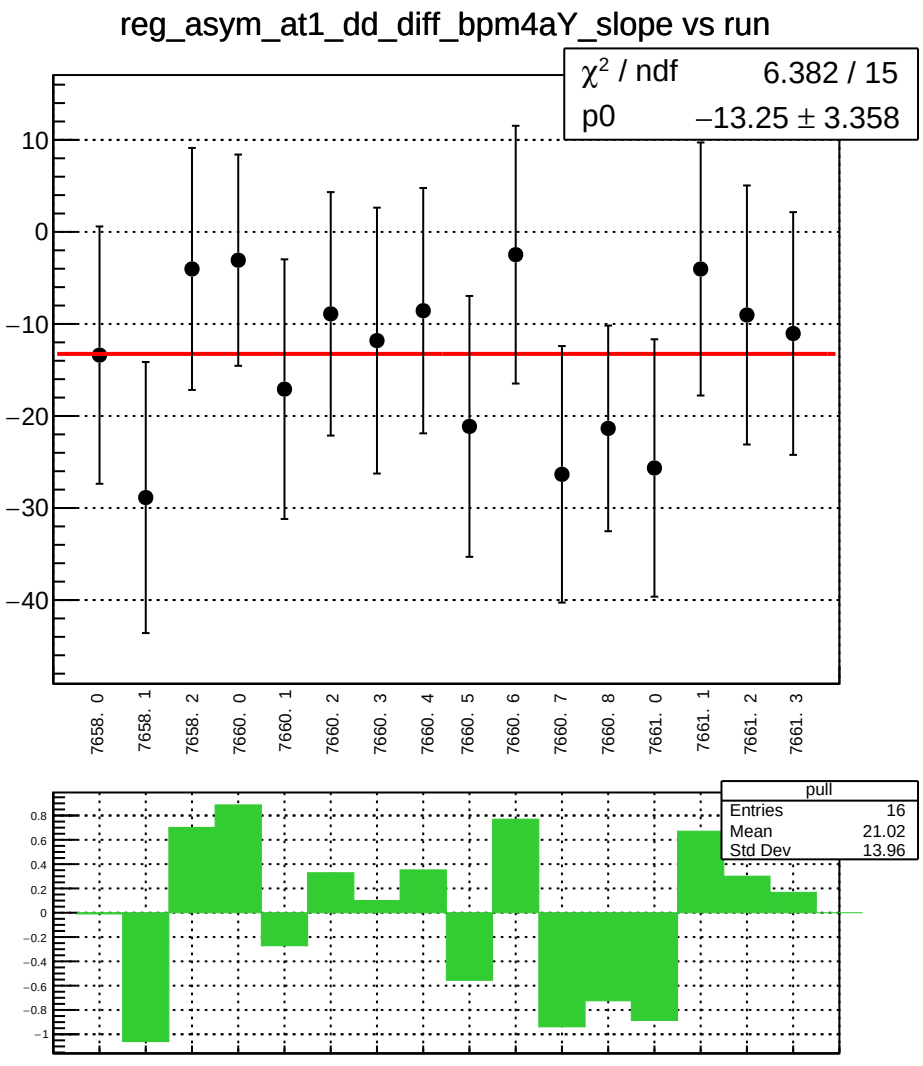

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.448 / 15
p0 −32.17 ± 4.476
10
0
−10
−20
−30
−40
−50
−60
−70
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 144.3
Std Dev 136.1
1
0.5
0
−0.5
−1

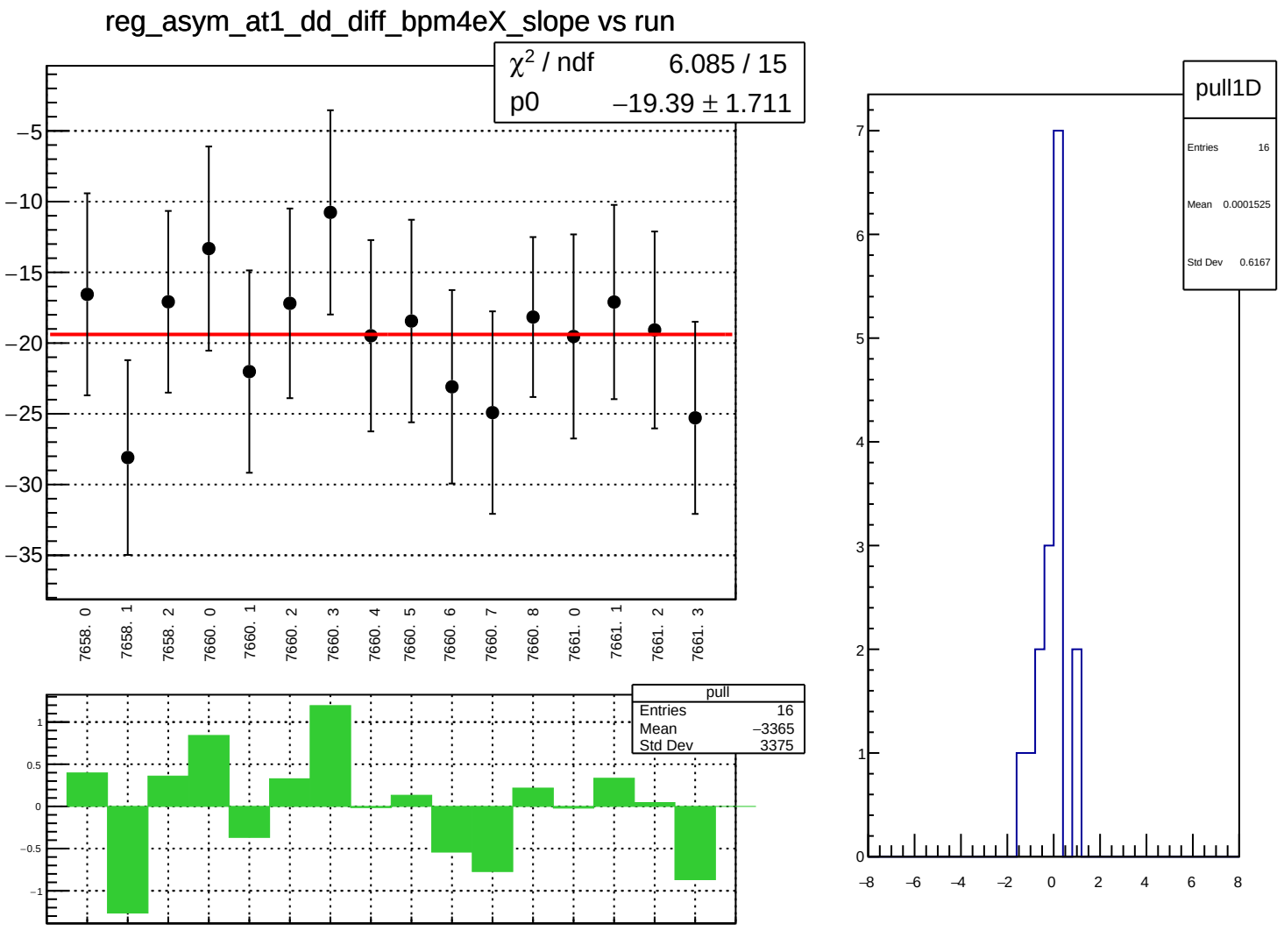

pull1D
Entries 16
Mean 0.01053
Std Dev 0.6347
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

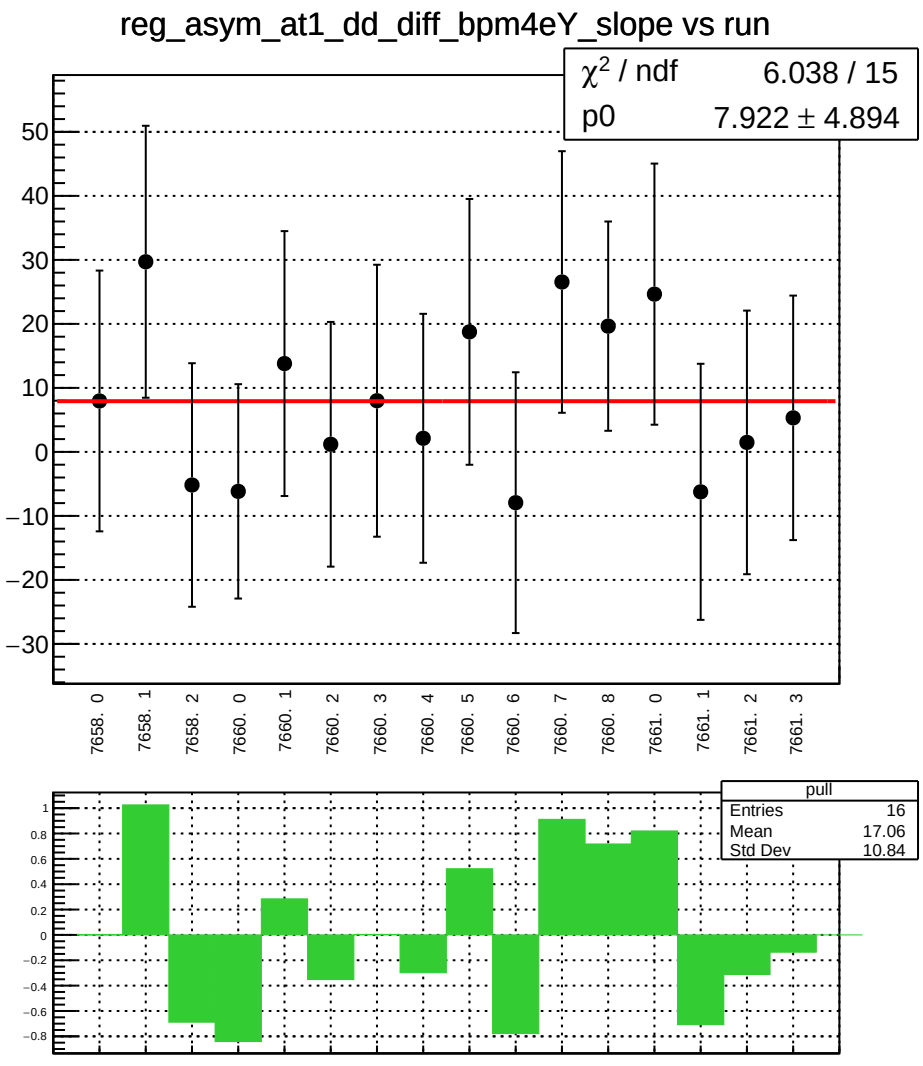

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 12.98 / 15
p0 −36.83 ± 0.2526
−33
−34
−35
−36
−37
−38
−39
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −37.34
Std Dev 45.99
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 16
Mean 0.02801
Std Dev 0.9004
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

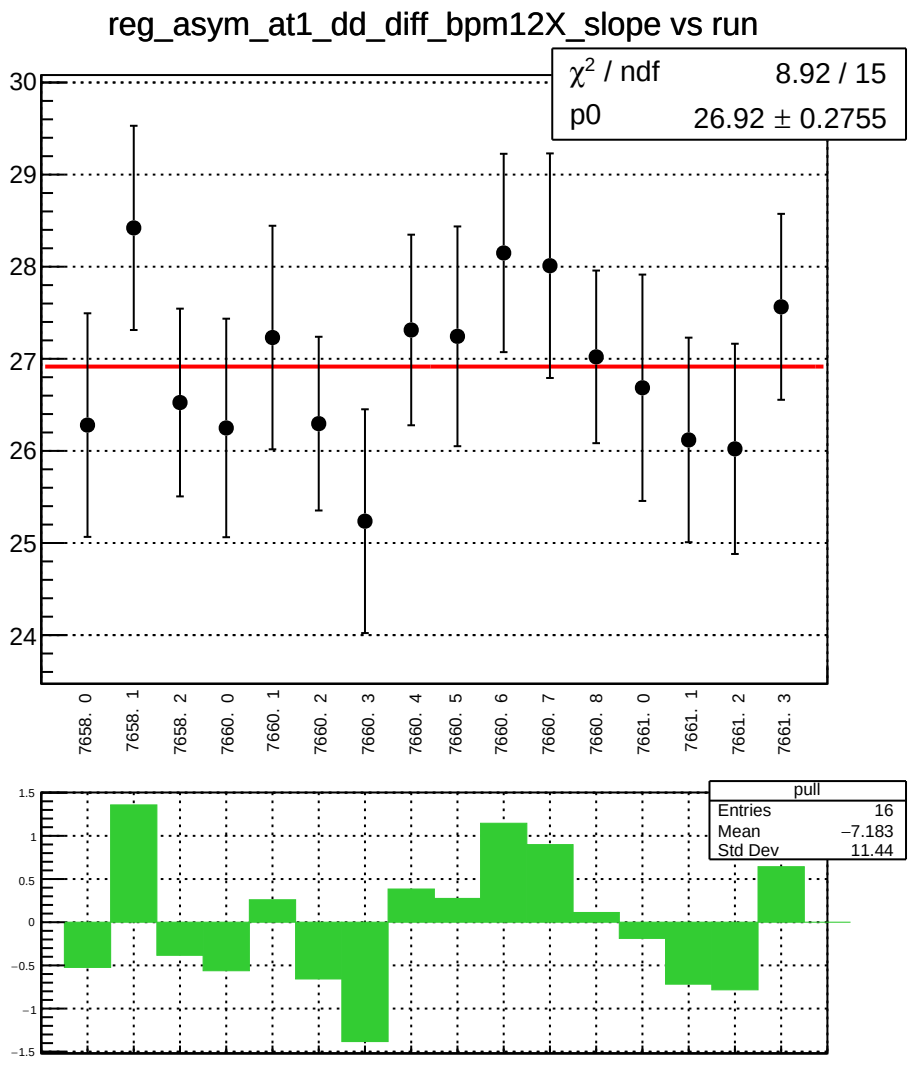

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ² / ndf 6.162 / 15
p0 69.75 ± 2.082
90
85
80
75
70
65
60
55
50
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −411.4
Std Dev 422.3
1
0.5
0
−0.5
−1

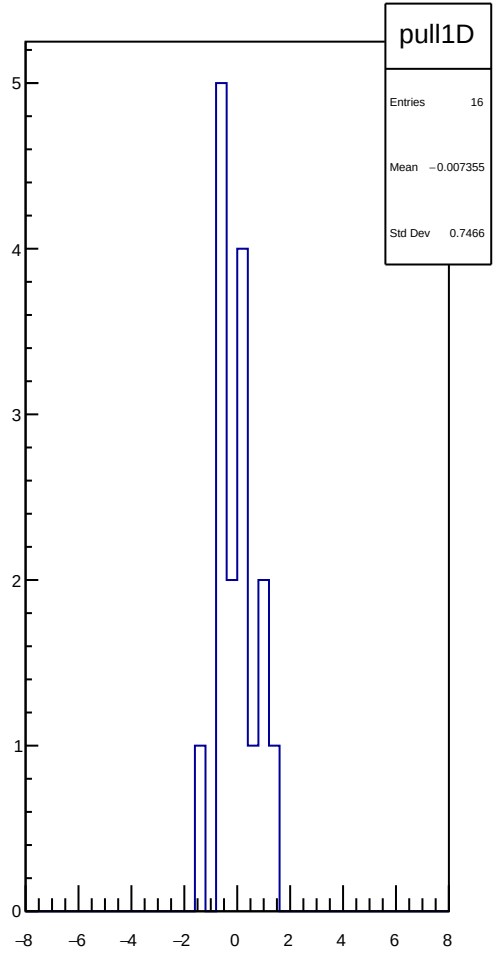

pull1D
Entries 16
Mean −0.001244
Std Dev 0.6206
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

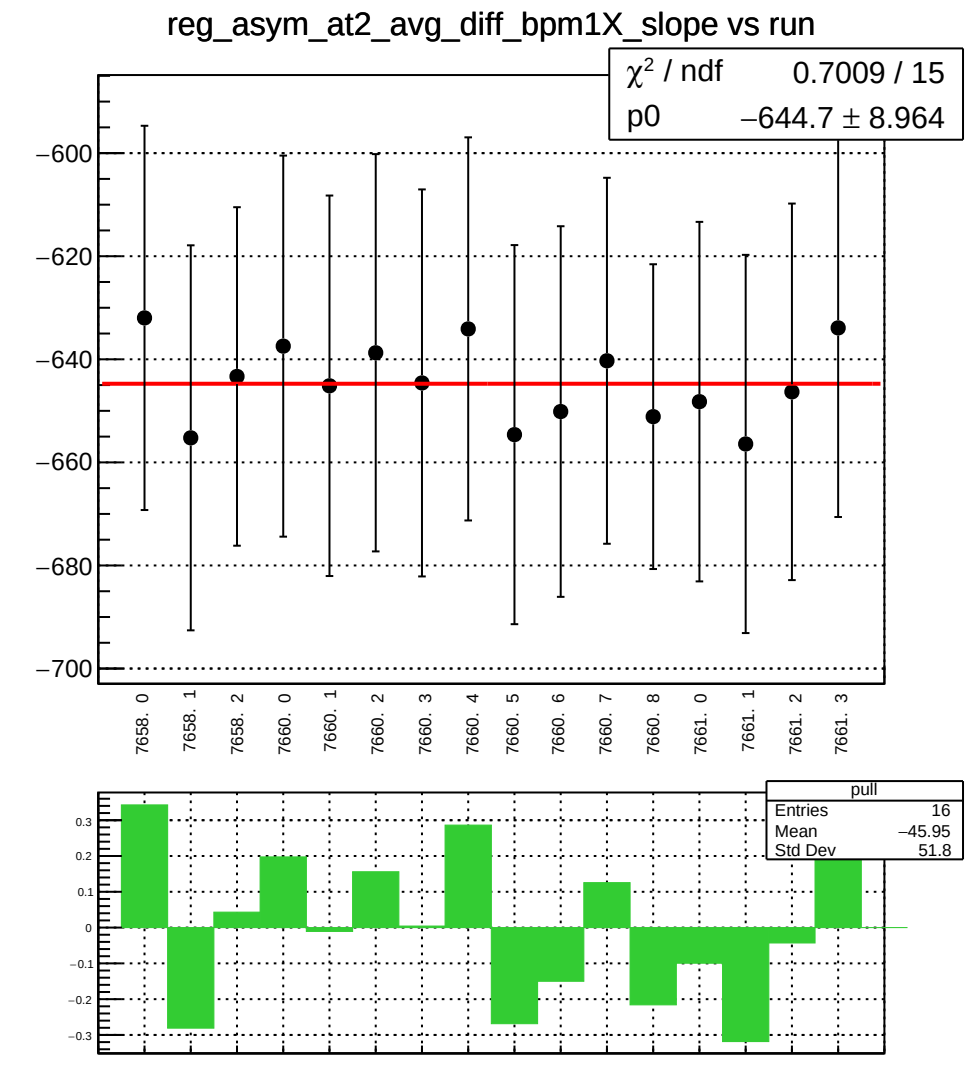

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.382 / 15
p0 −13.25 ± 3.358
10
0
−10
−20
−30
−40
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 21.02
Std Dev 13.96
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 16
Mean −0.01047
Std Dev 0.6315
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

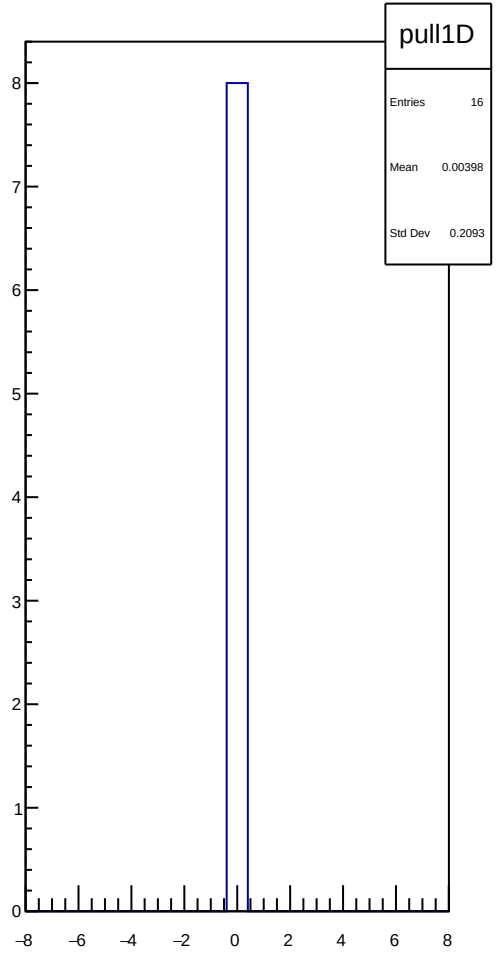

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.085 / 15
p0 −19.39 ± 1.711
−5
−10
−15
−20
−25
−30
−35
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −3365
Std Dev 3375
1
0.5
0
−0.5
−1
pull1D
Entries 16
Mean 0.0001525
Std Dev 0.6167
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

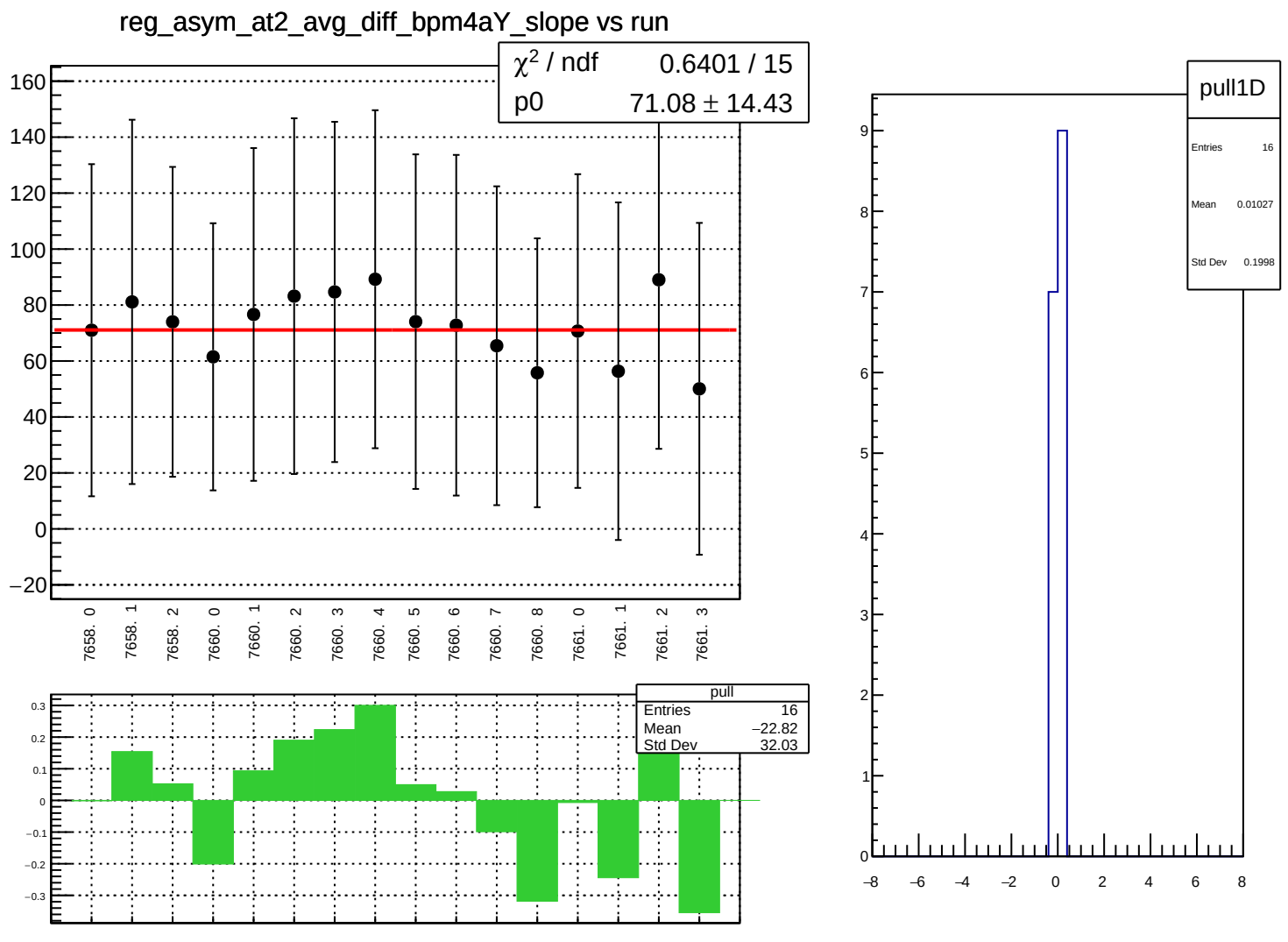

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.038 / 15
p0 7.922 ± 4.894
50
40
30
20
10
0
−10
−20
−30
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 17.06
Std Dev 10.84
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 16
Mean 0.01067
Std Dev 0.6142
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

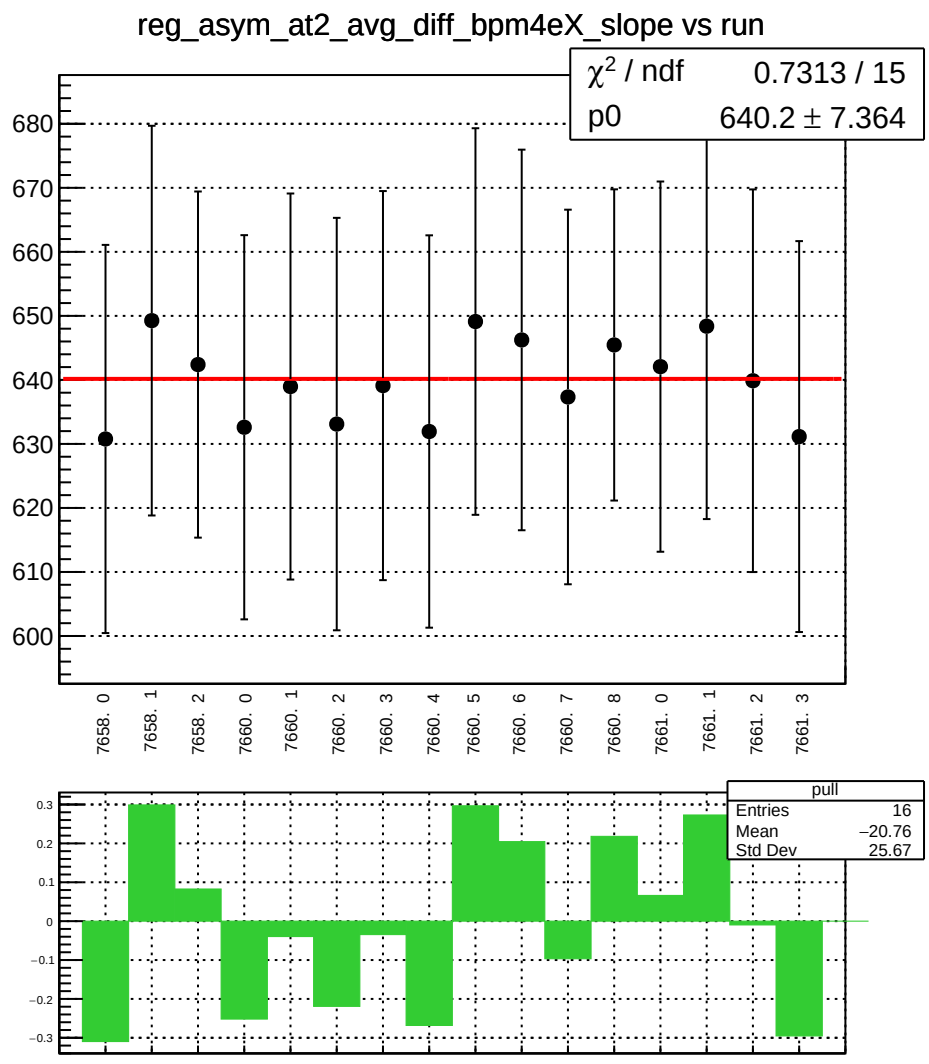

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 8.92 / 15
p0 26.92 ± 0.2755
30
29
28
27
26
25
24
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −7.183
Std Dev 11.44
1.5
1
0.5
0
−0.5
−1
−1.5

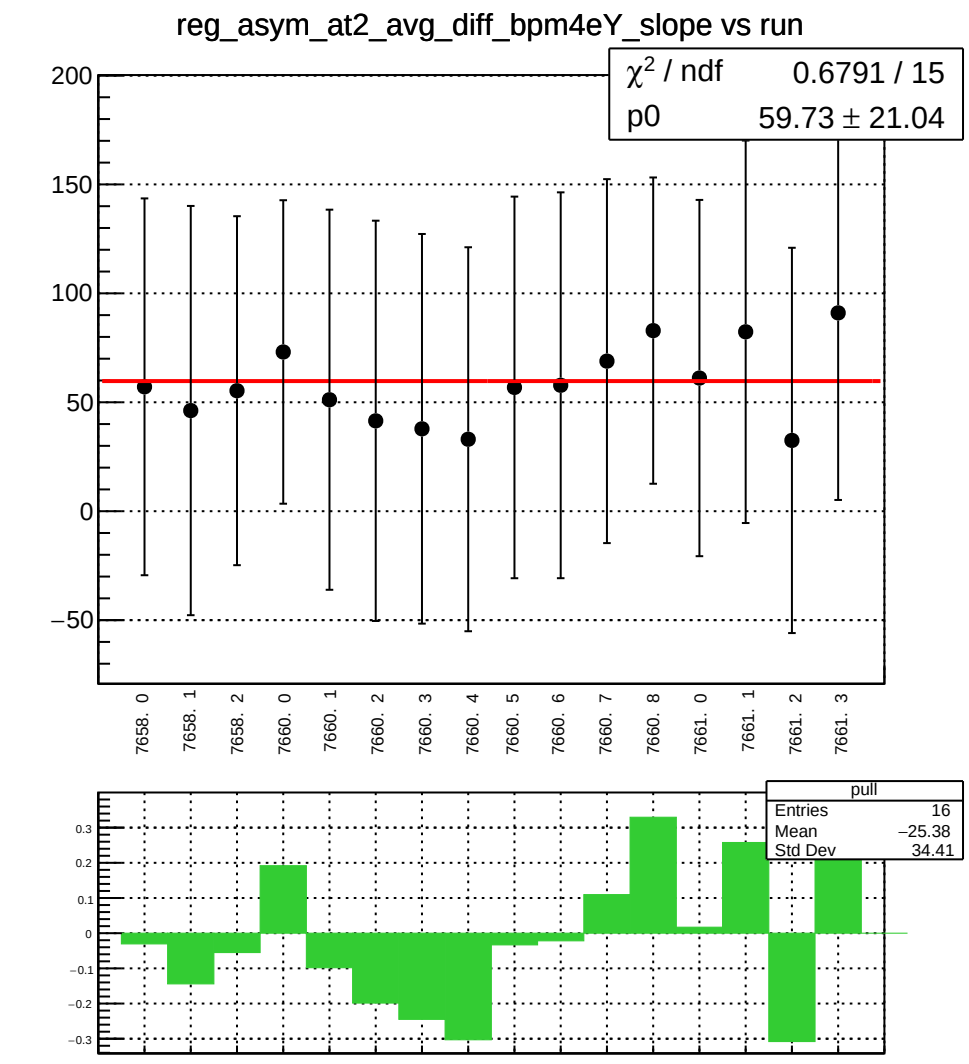

pull1D
Entries 16
Mean −0.007355
Std Dev 0.7466
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

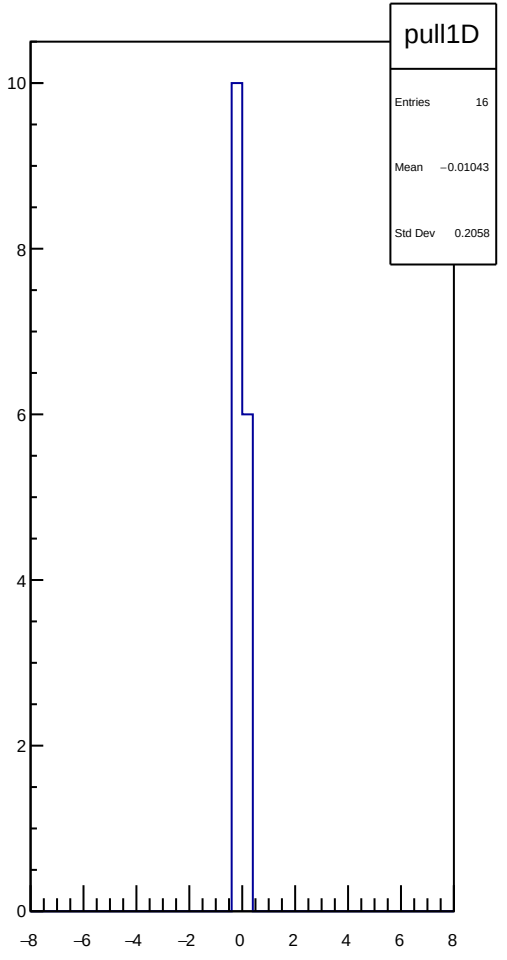

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 0.7009 / 15
p0 −644.7 ± 8.964
−600
−620
−640
−660
−680
−700
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −45.95
Std Dev 51.8
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

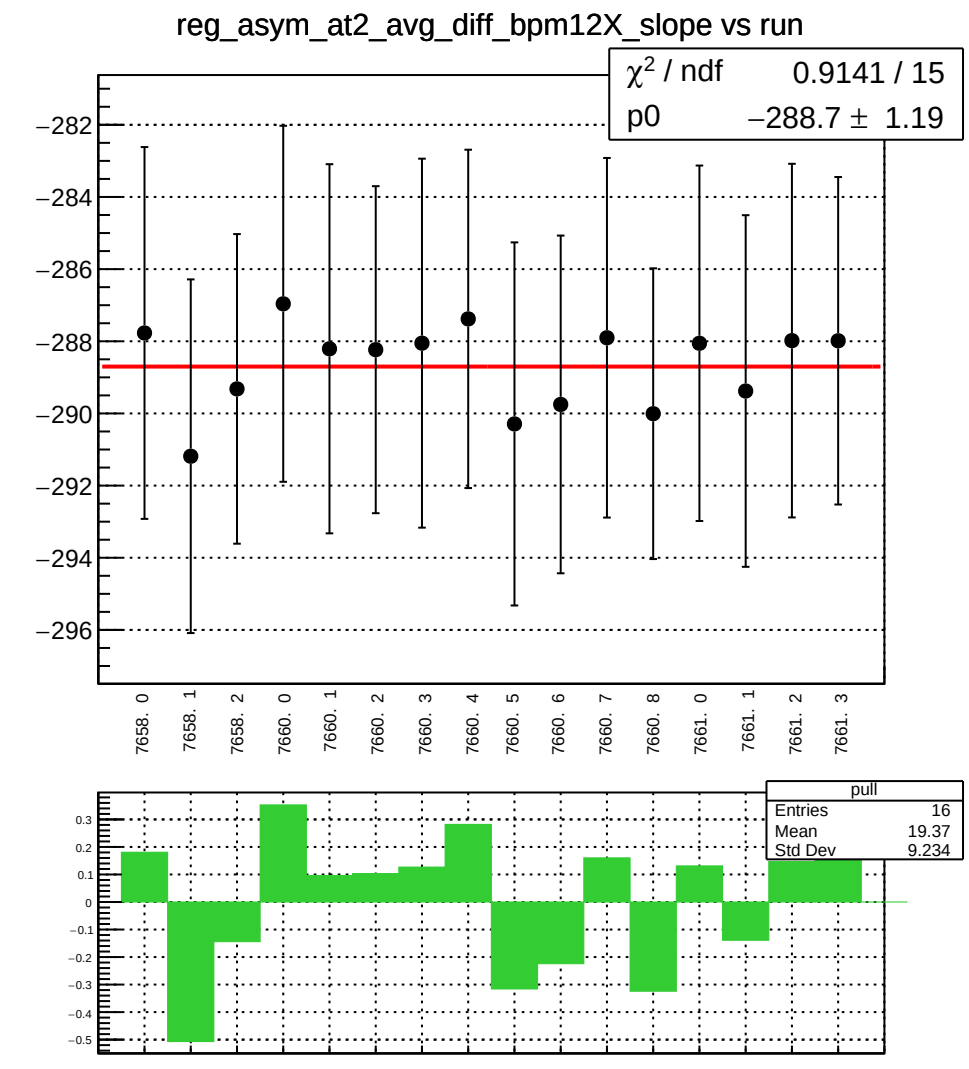

pull1D
Entries 16
Mean 0.00398
Std Dev 0.2093
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

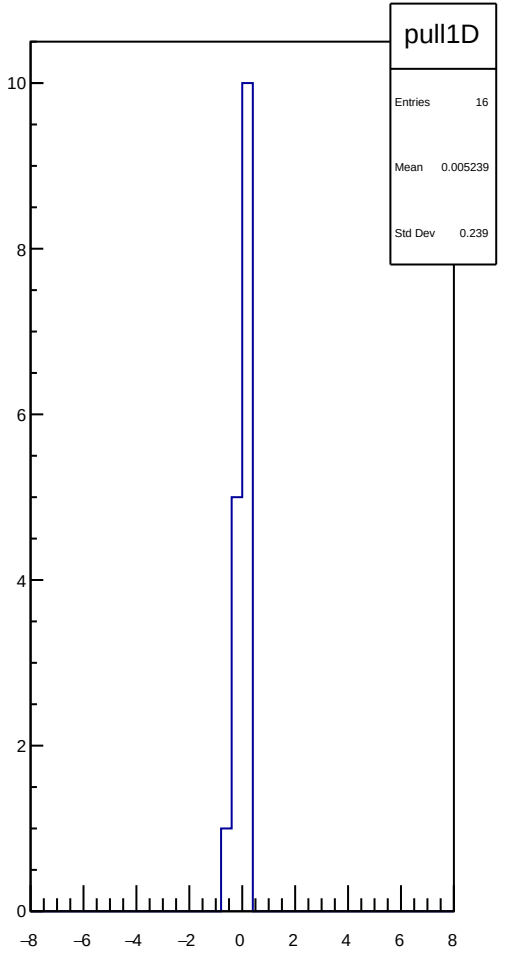

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.6401 / 15
p0 71.08 ± 14.43
160
140
120
100
80
60
40
20
0
−20
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −22.82
Std Dev 32.03
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 16
Mean 0.01027
Std Dev 0.1998
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

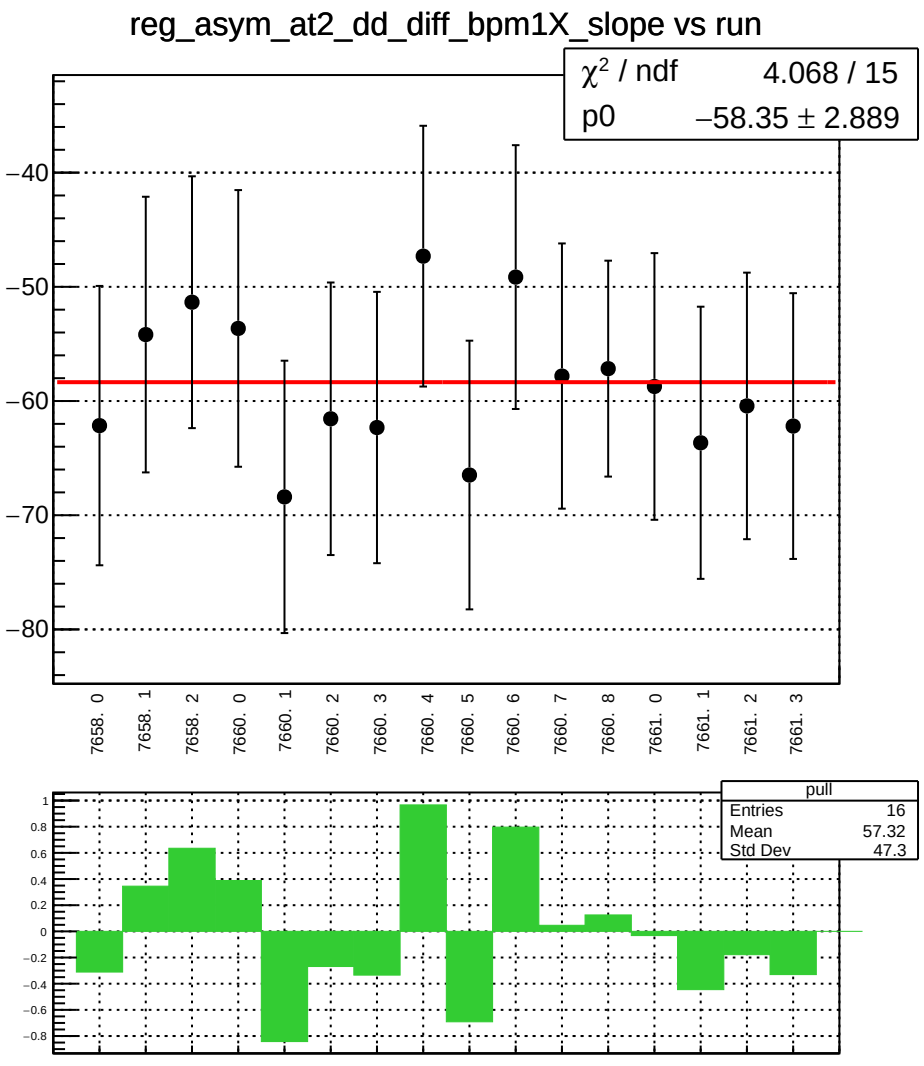

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 0.7313 / 15
p0 640.2 ± 7.364
680
670
660
650
640
630
620
610
600
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −20.76
Std Dev 25.67
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 16
Mean −0.00528
Std Dev 0.2137
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

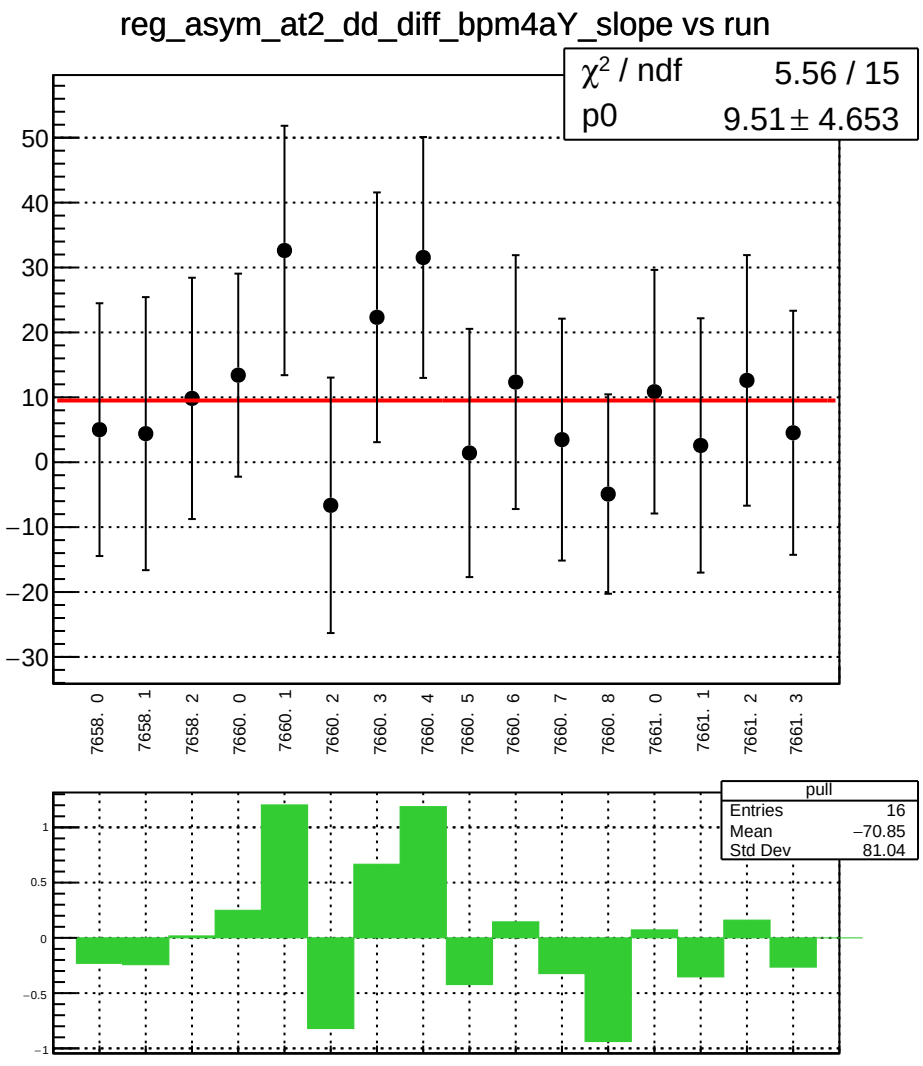

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.6791 / 15
p0 59.73 ± 21.04
200
150
100
50
0
−50
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −25.38
Std Dev 34.41
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

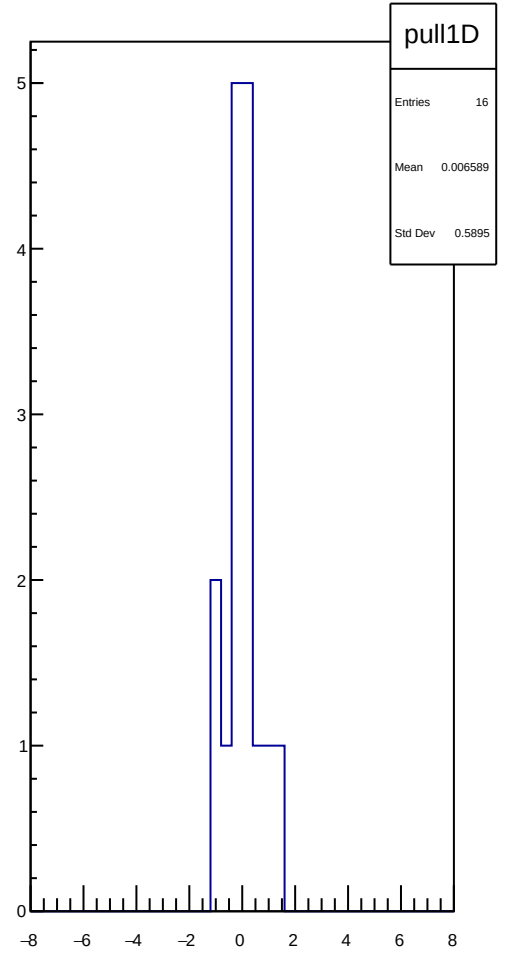

pull1D
Entries 16
Mean −0.01043
Std Dev 0.2058
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

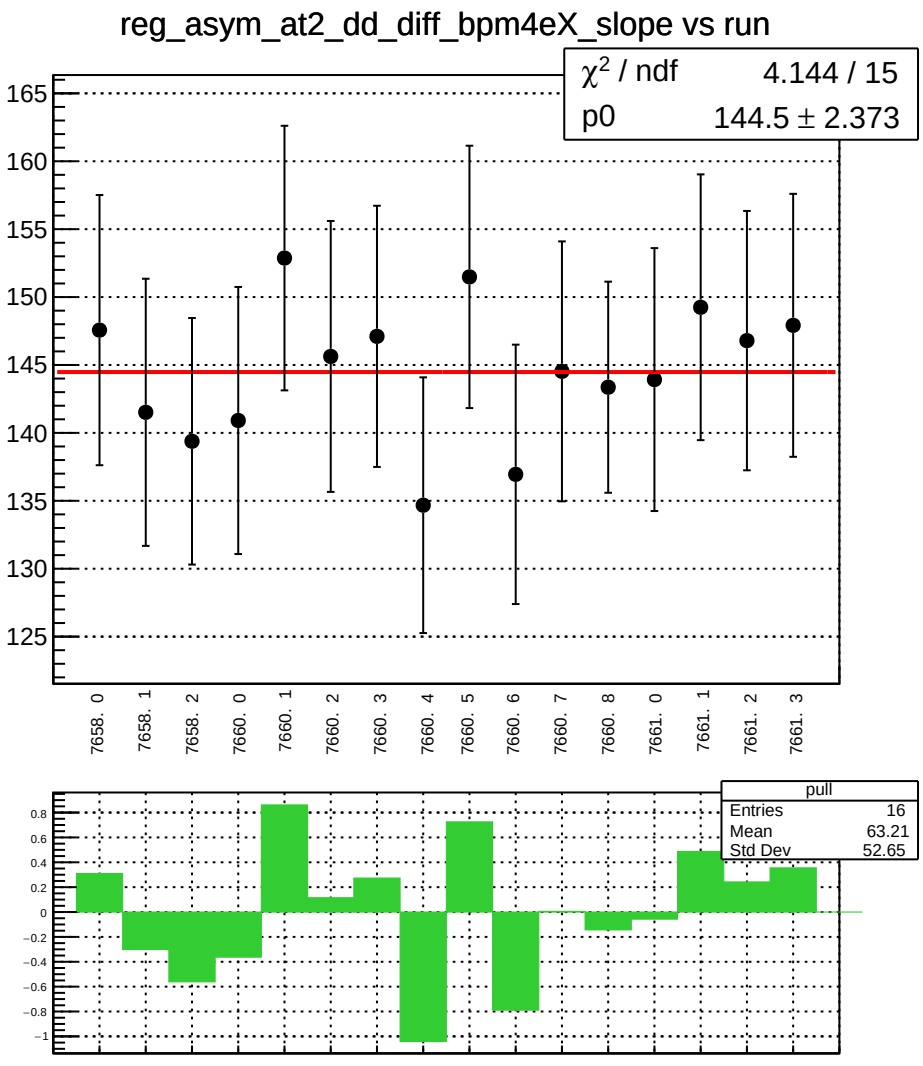

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 0.9141 / 15
p0 −288.7 ± 1.19
−282
−284
−286
−288
−290
−292
−294
−296
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 19.37
Std Dev 9.234
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5

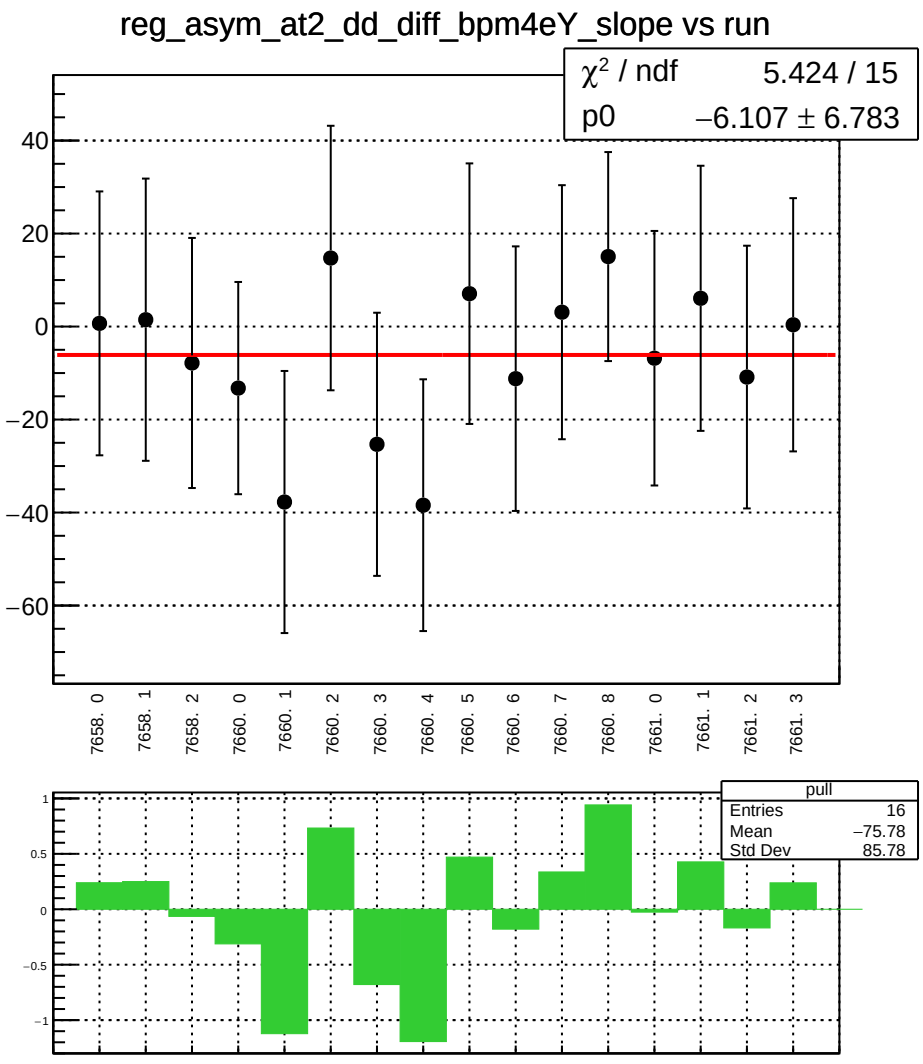

pull1D
Entries 16
Mean 0.005239
Std Dev 0.239
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

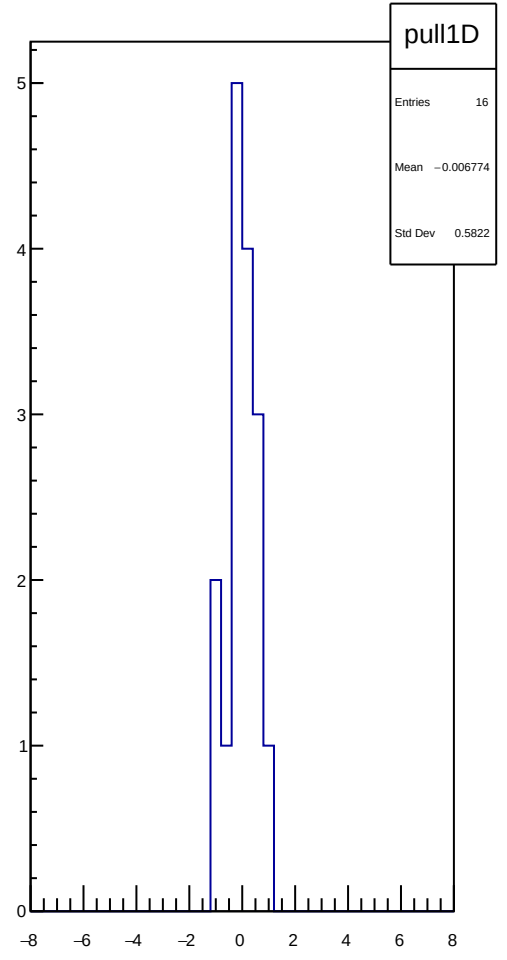

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 4.068 / 15
p0 −58.35 ± 2.889
−40
−50
−60
−70
−80
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 57.32
Std Dev 47.3
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 16
Mean −0.008036
Std Dev 0.5042
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

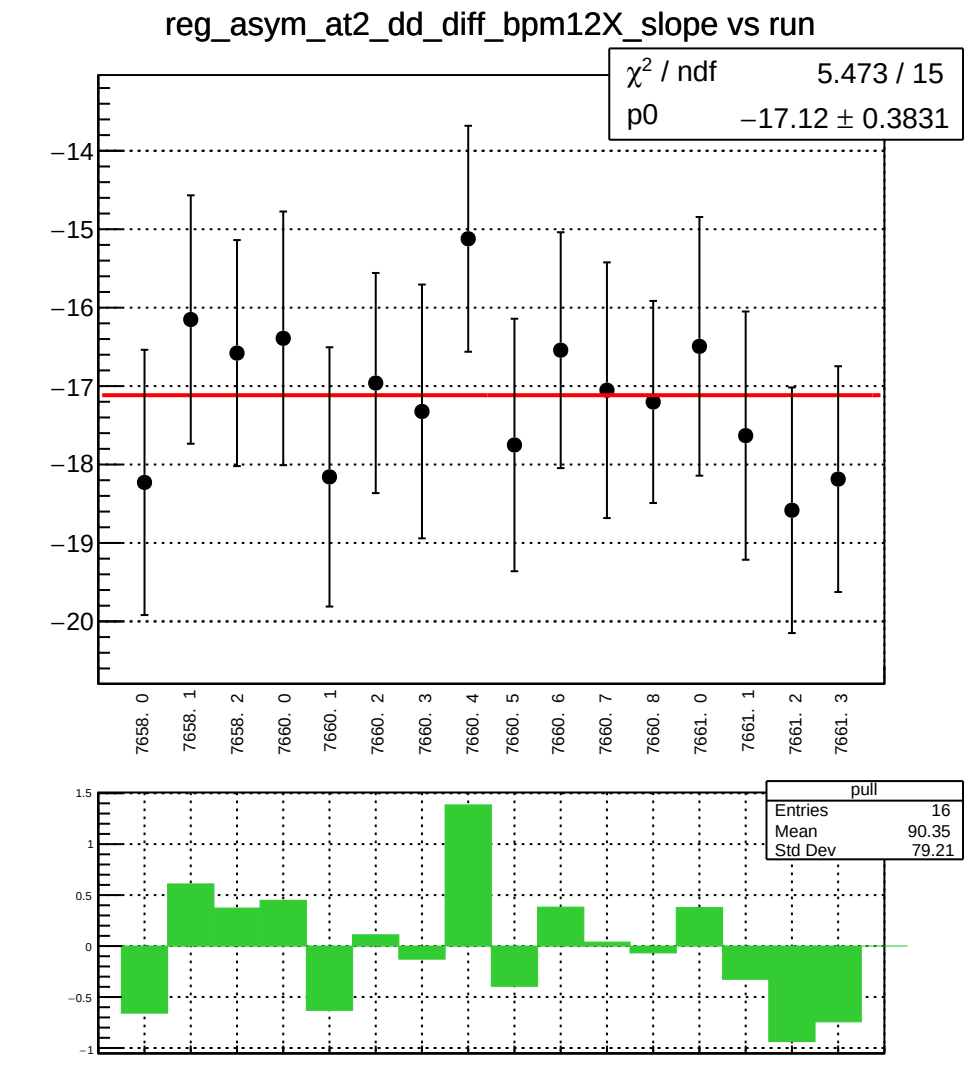

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.56 / 15
p0 9.51 ± 4.653
50
40
30
20
10
0
−10
−20
−30
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −70.85
Std Dev 81.04
1
0.5
0
−0.5
−1

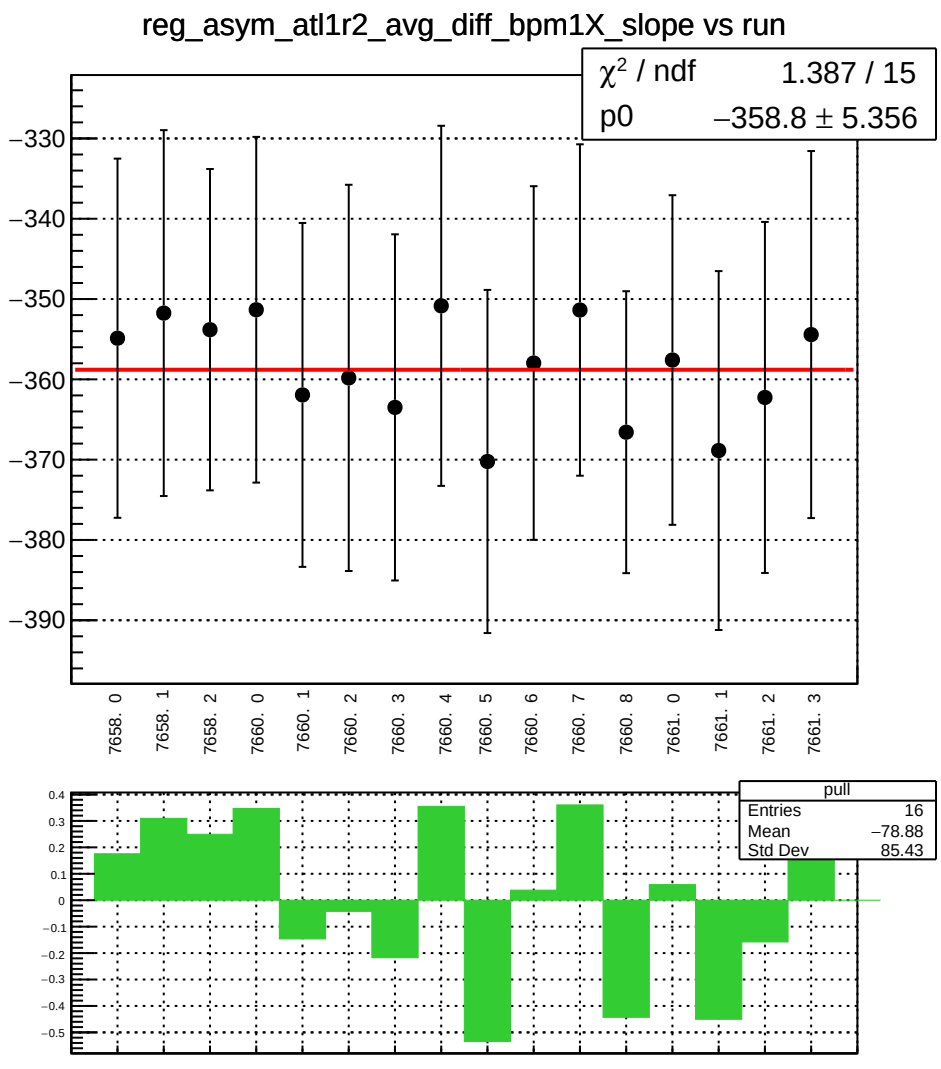

pull1D
Entries 16
Mean 0.006589
Std Dev 0.5895
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

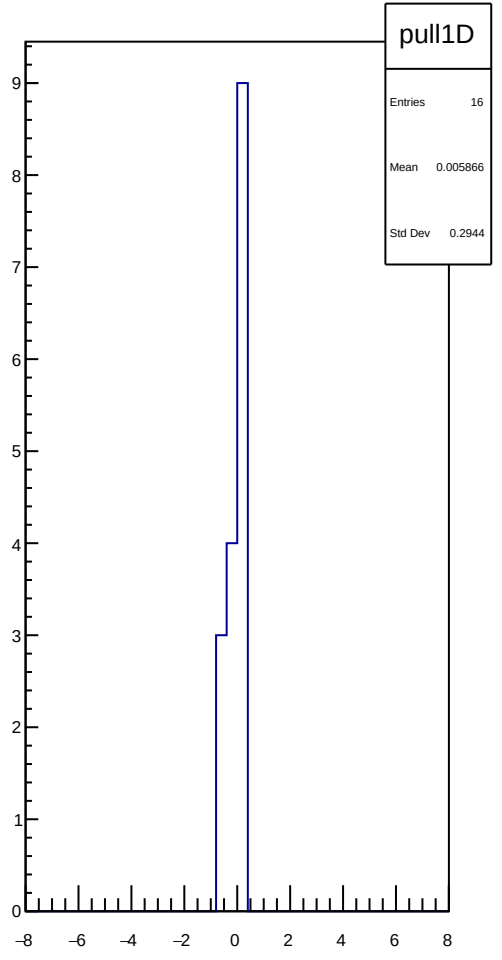

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.144 / 15
p0 144.5 ± 2.373
165
160
155
150
145
140
135
130
125
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 63.21
Std Dev 52.65
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 16
Mean 0.007374
Std Dev 0.5089
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

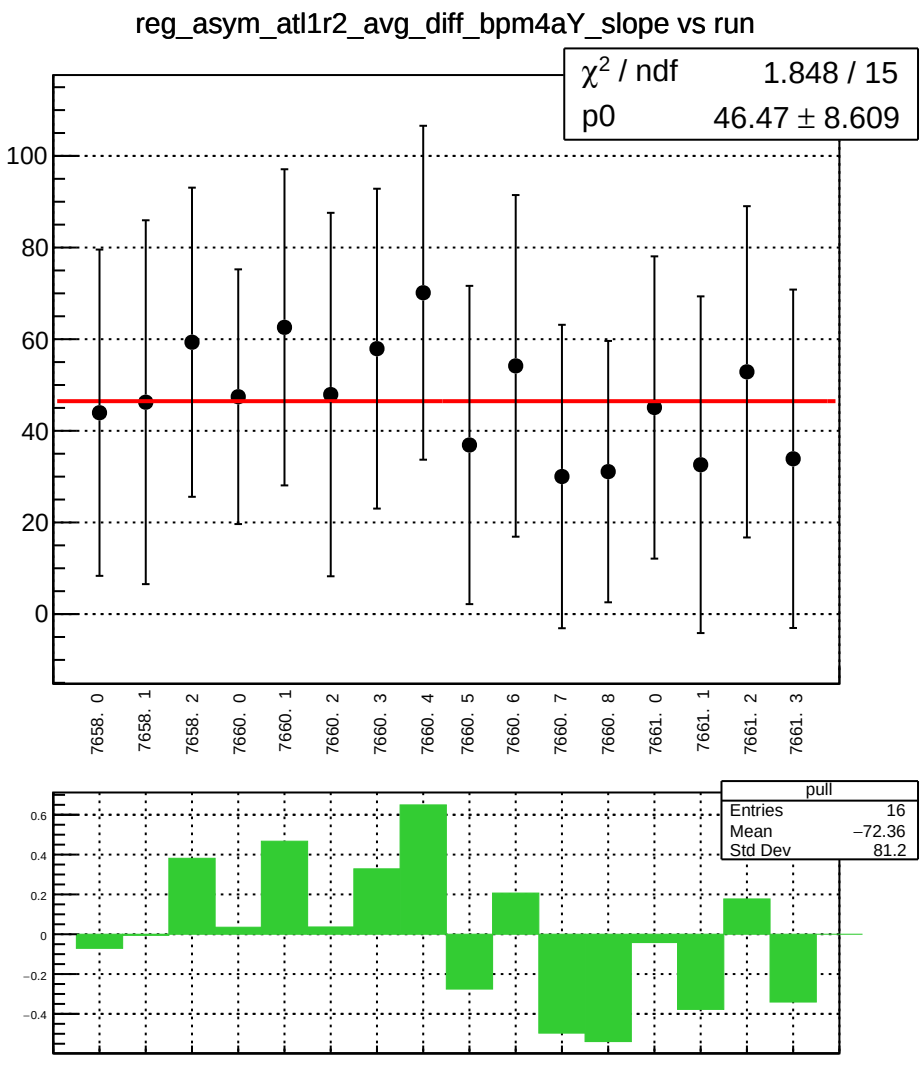

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.424 / 15
p0 −6.107 ± 6.783
40
20
0
−20
−40
−60
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −75.78
Std Dev 85.78
1
0.5
0
−0.5
−1

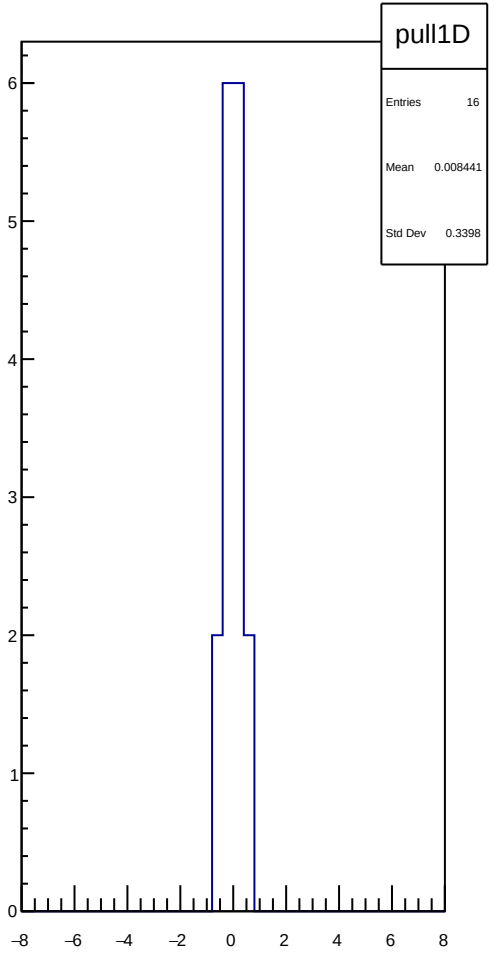

pull1D
Entries 16
Mean −0.006774
Std Dev 0.5822
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

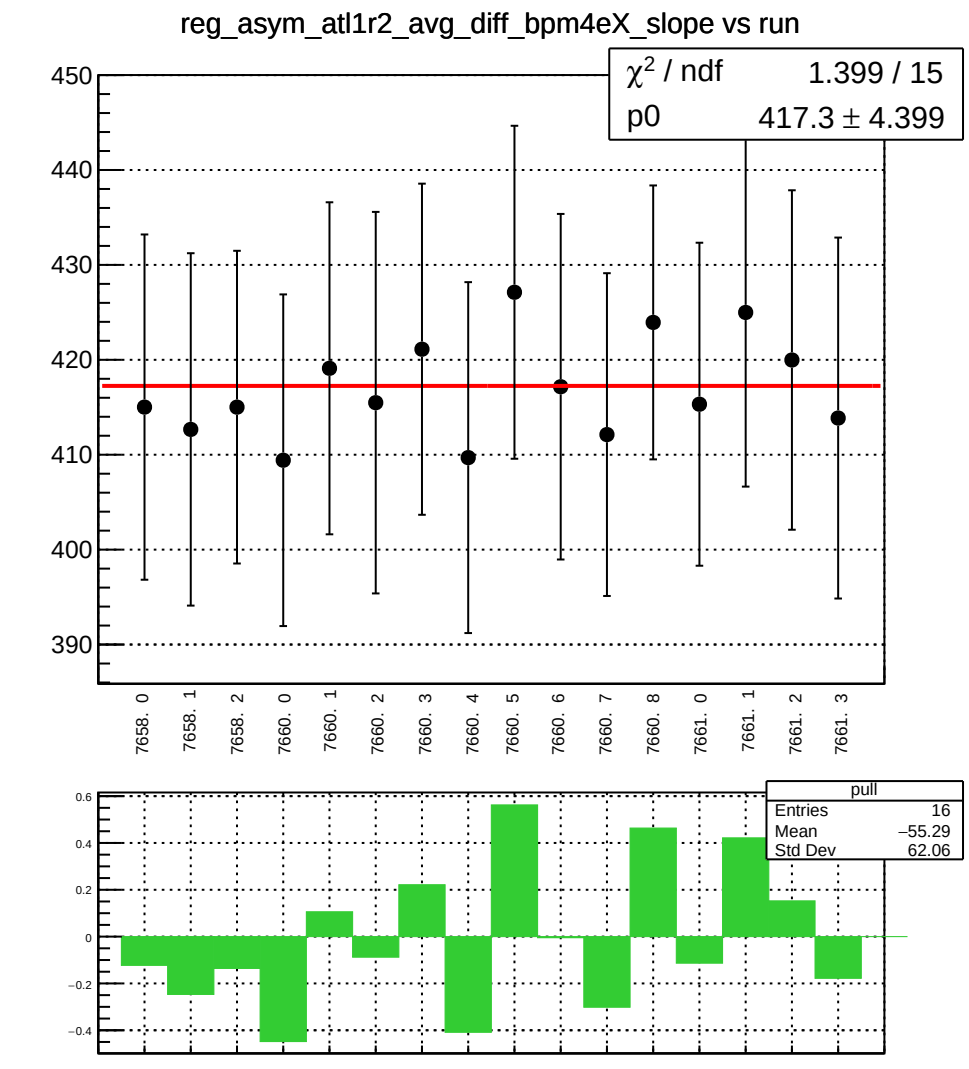

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 5.473 / 15
p0 −17.12 ± 0.3831
−14
−15
−16
−17
−18
−19
−20
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 90.35
Std Dev 79.21
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 16
Mean −0.01
Std Dev 0.5848
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

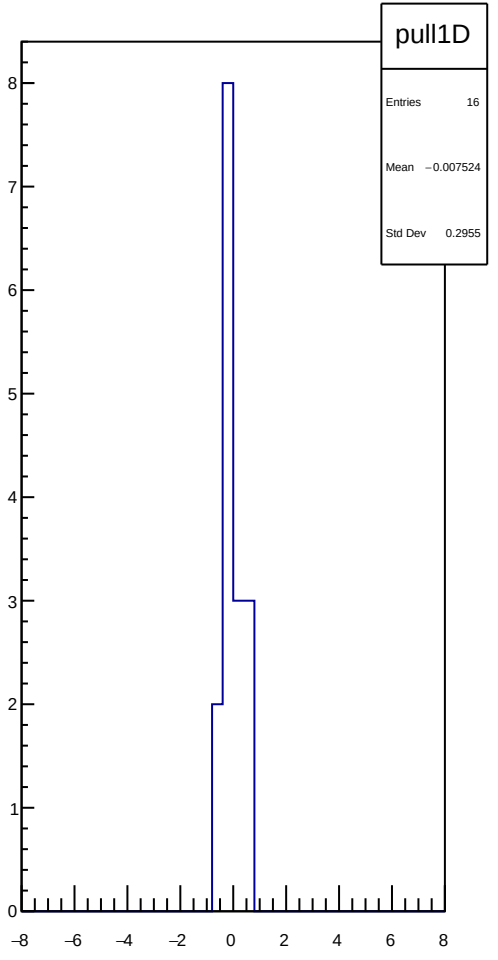

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 1.387 / 15
p0 −358.8 ± 5.356
−330
−340
−350
−360
−370
−380
−390
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −78.88
Std Dev 85.43
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5

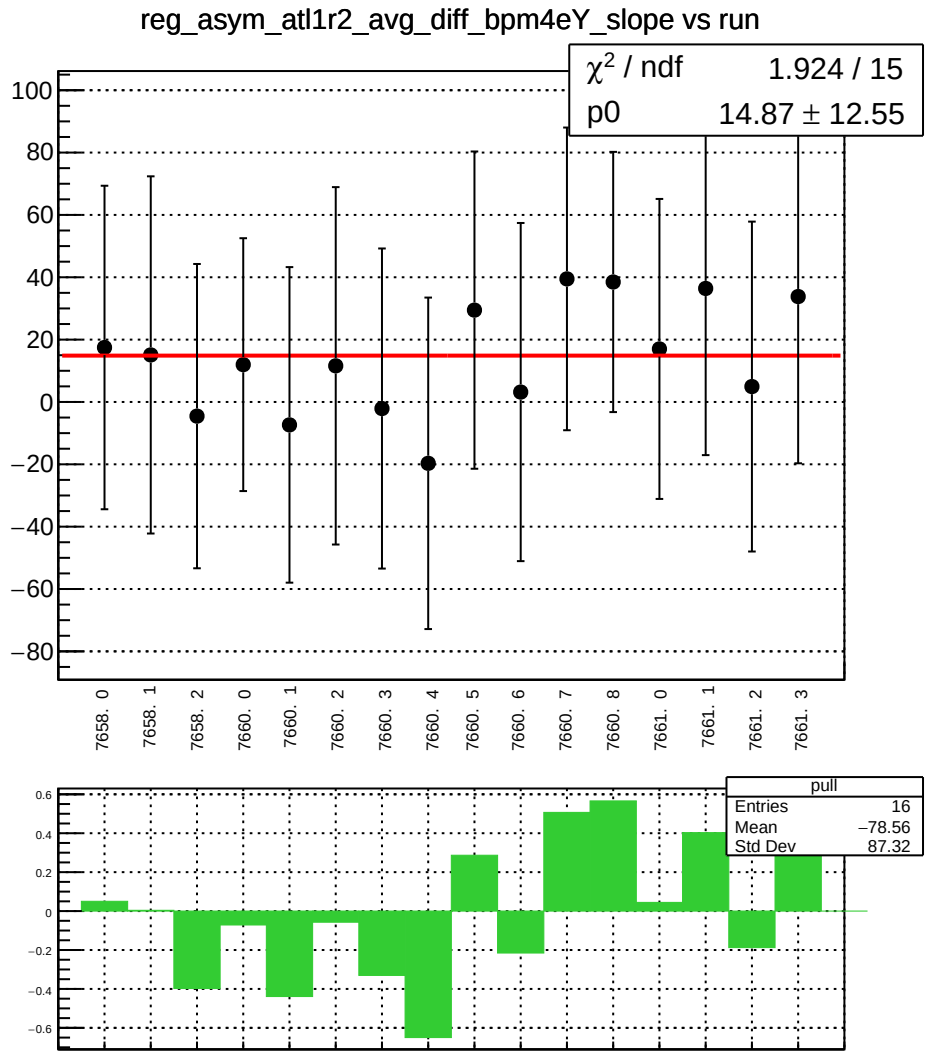

pull1D
Entries 16
Mean 0.005866
Std Dev 0.2944
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

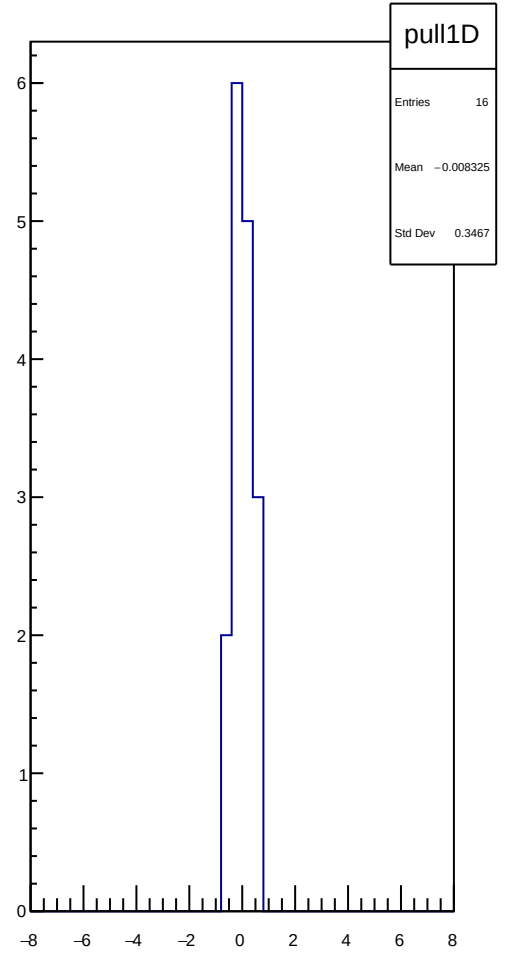

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.848 / 15
p0 46.47 ± 8.609
100
80
60
40
20
0
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −72.36
Std Dev 81.2
0.6
0.4
0.2
0
−0.2
−0.4

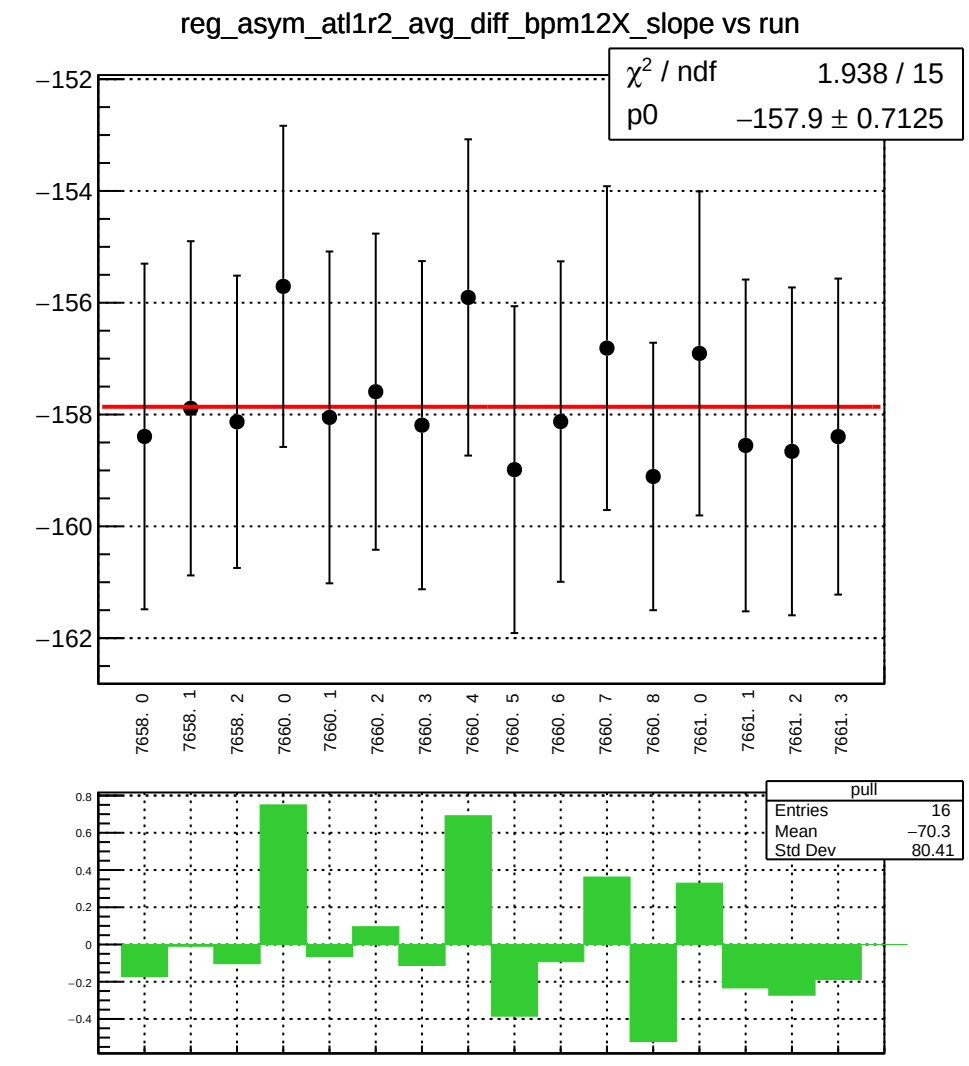

pull1D
Entries 16
Mean 0.008441
Std Dev 0.3398
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

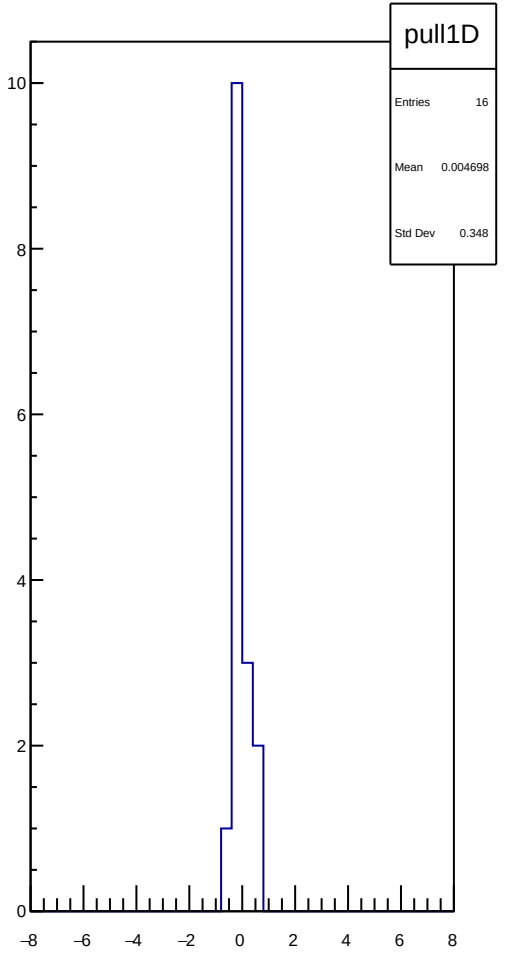

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.399 / 15
p0 417.3 ± 4.399
450
440
430
420
410
400
390
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −55.29
Std Dev 62.06
0.6
0.4
0.2
0
−0.2
−0.4

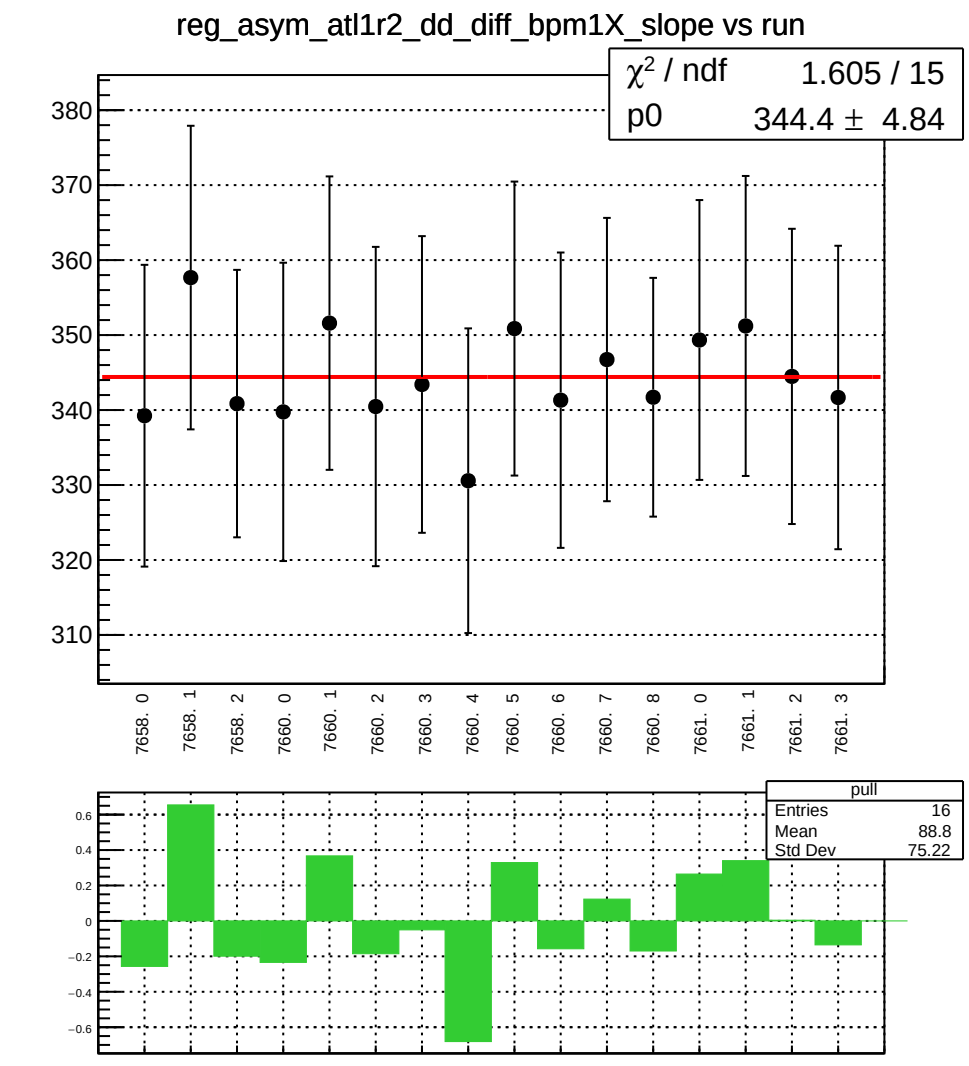

pull1D
Entries 16
Mean −0.007524
Std Dev 0.2955
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

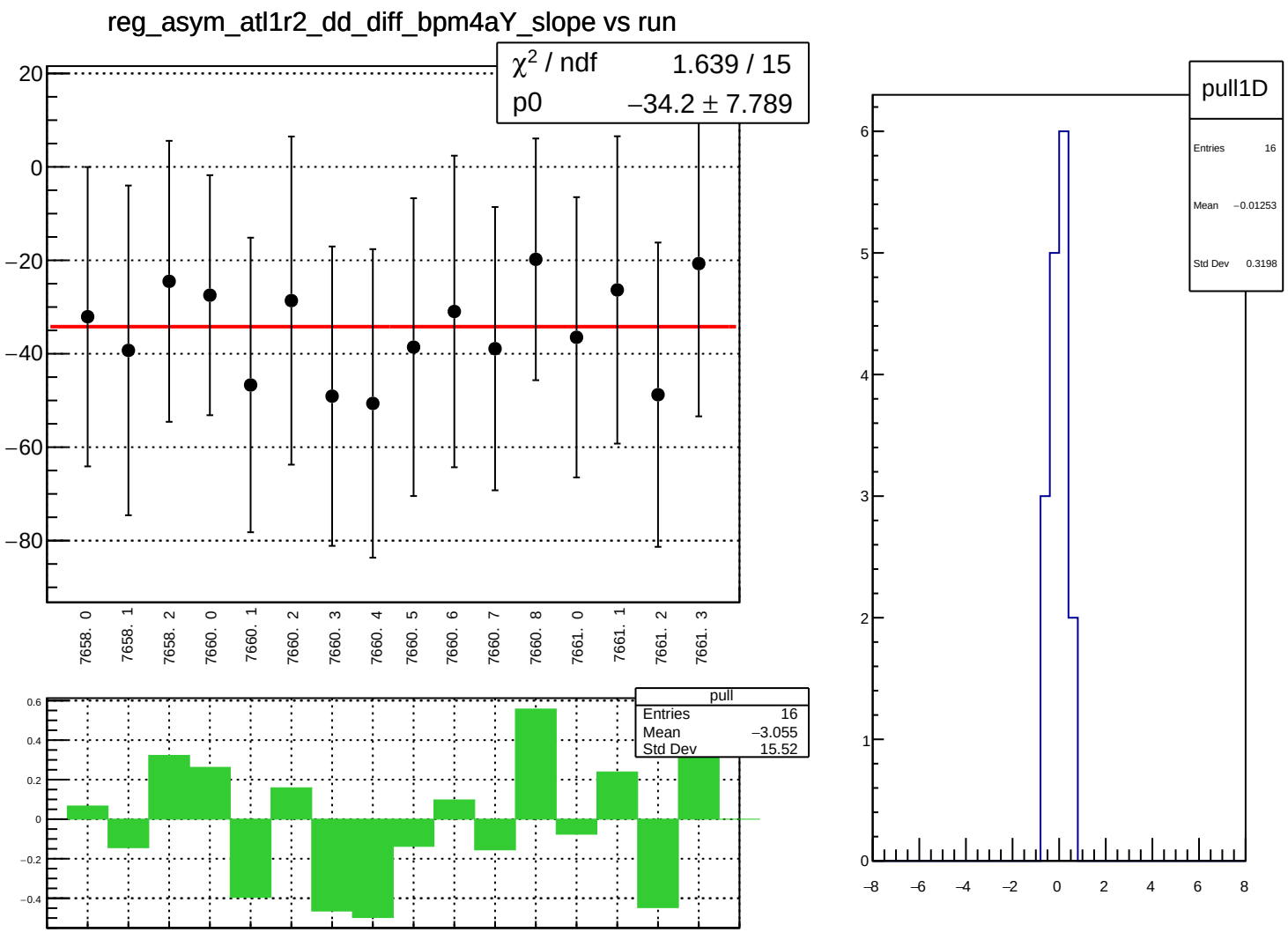

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.924 / 15
p0 14.87 ± 12.55
100
80
60
40
20
0
−20
−40
−60
−80
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −78.56
Std Dev 87.32
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

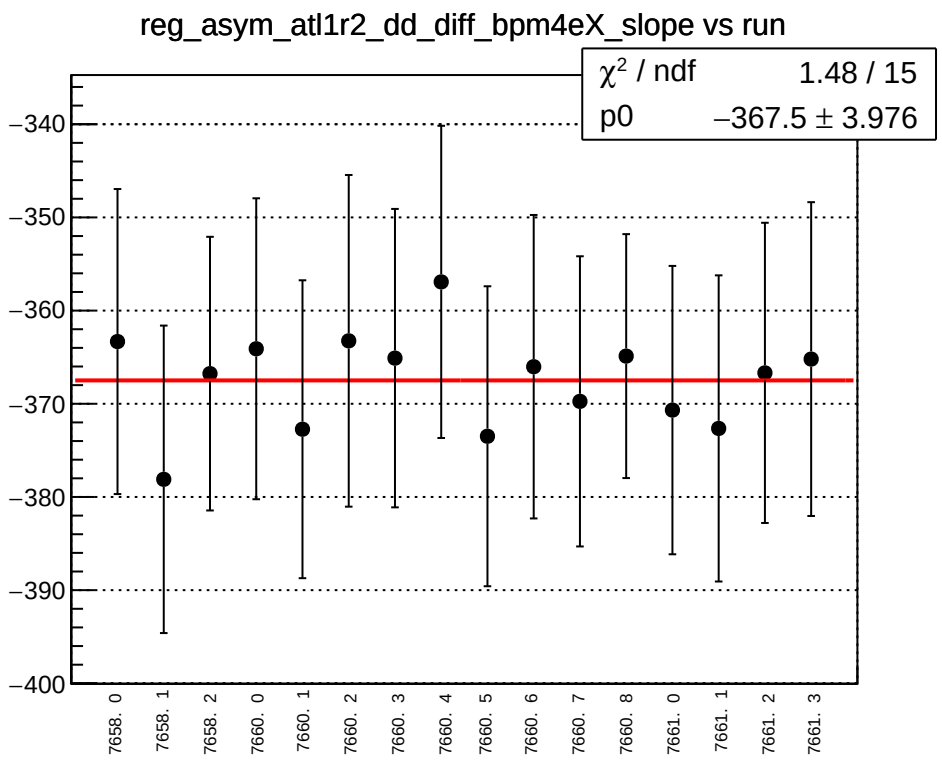

pull1D
Entries 16
Mean −0.008325
Std Dev 0.3467
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

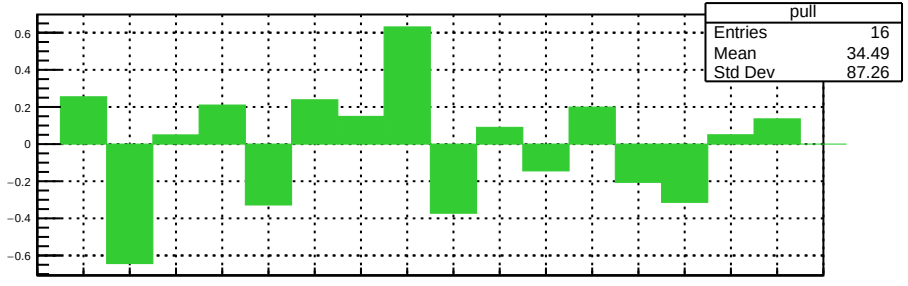

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 1.938 / 15
p0 −157.9 ± 0.7125
−152
−154
−156
−158
−160
−162
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −70.3
Std Dev 80.41
0.8
0.6
0.4
0.2
0
−0.2
−0.4

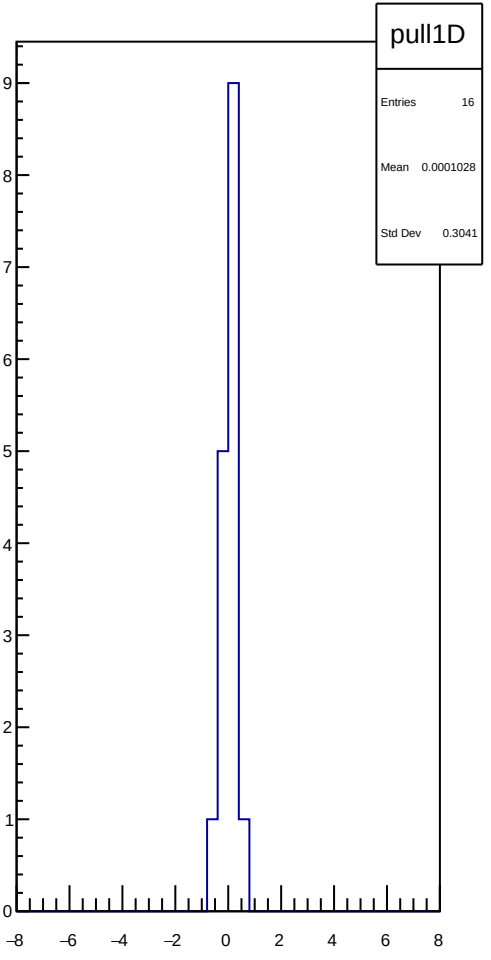

pull1D
Entries 16
Mean 0.004698
Std Dev 0.348
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

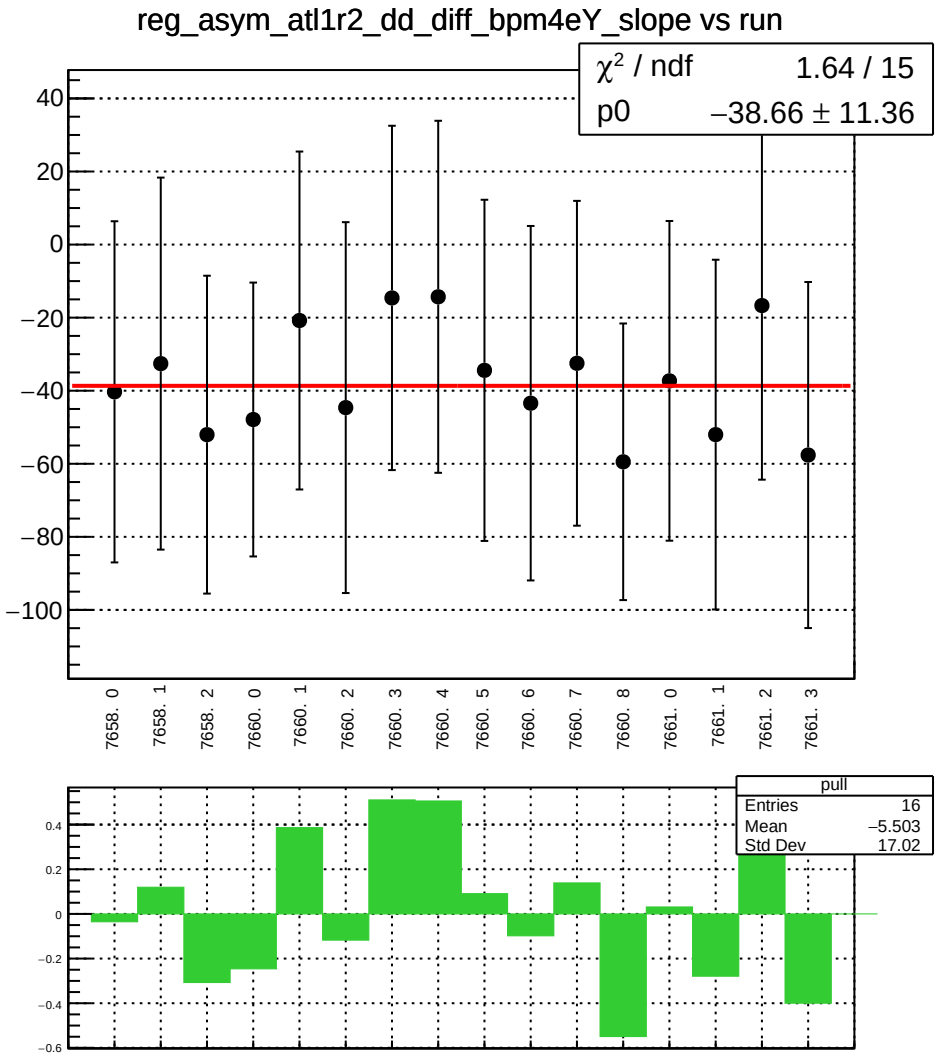

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 1.605 / 15
p0 344.4 ± 4.84
380
370
360
350
340
330
320
310
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 88.8
Std Dev 75.22
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 16
Mean 0.0008708
Std Dev 0.3168
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

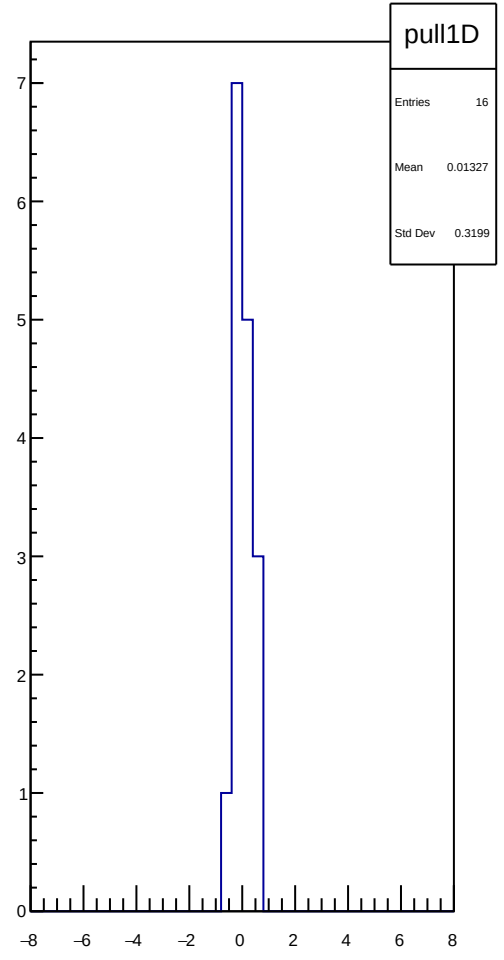

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.639 / 15
p0 −34.2 ± 7.789
20
0
−20
−40
−60
−80
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −3.055
Std Dev 15.52
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 16
Mean −0.01253
Std Dev 0.3198
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

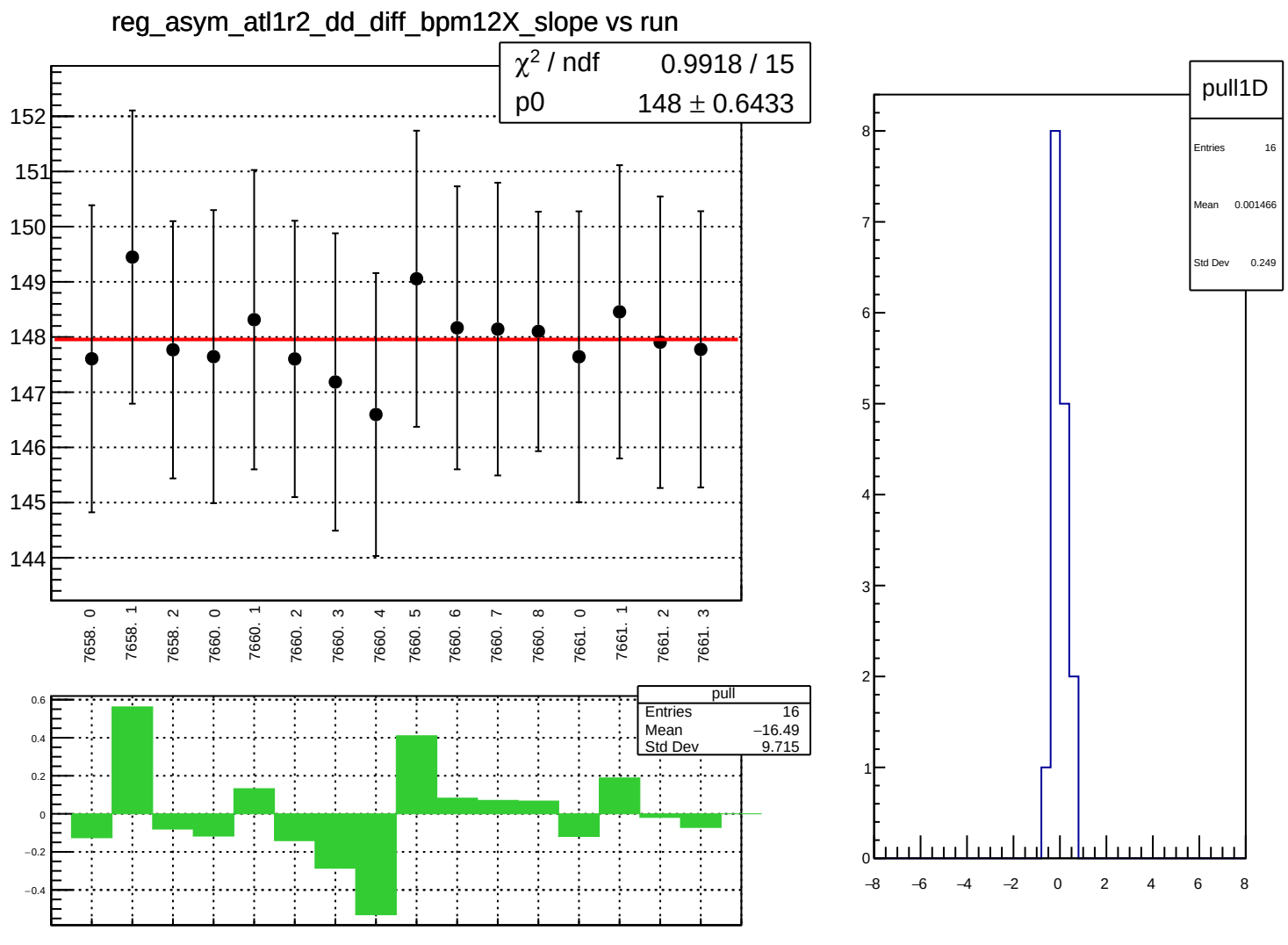

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.48 / 15
p0 −367.5 ± 3.976
−340
−350
−360
−370
−380
−390
−400
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

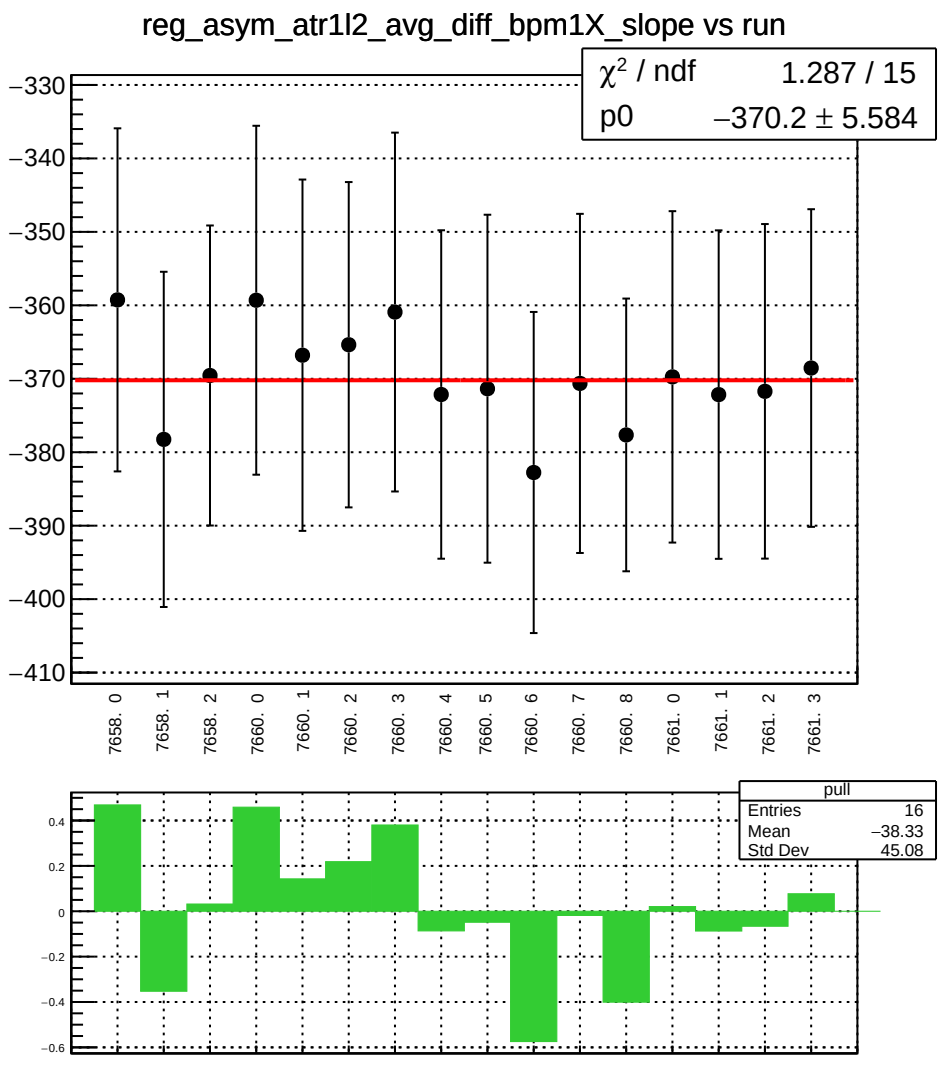

pull
Entries 16
Mean 34.49
Std Dev 87.26
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

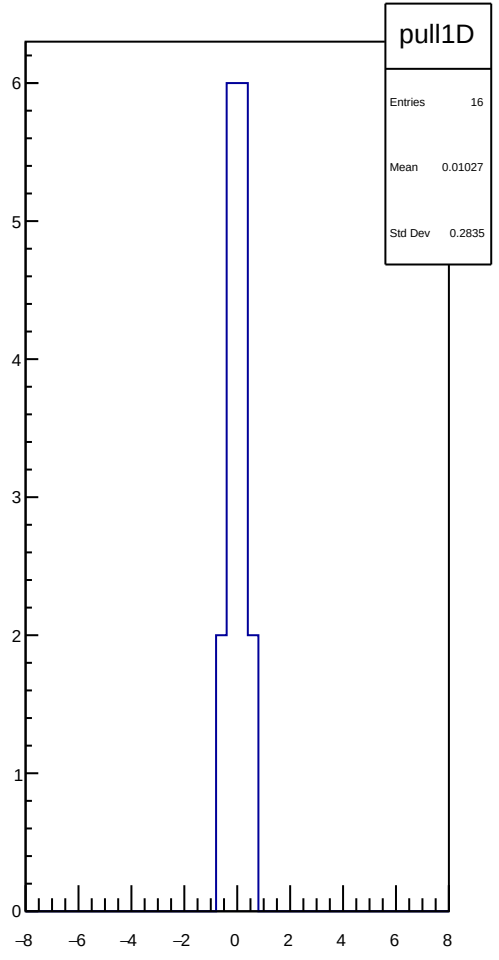

pull1D
Entries 16
Mean 0.0001028
Std Dev 0.3041
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

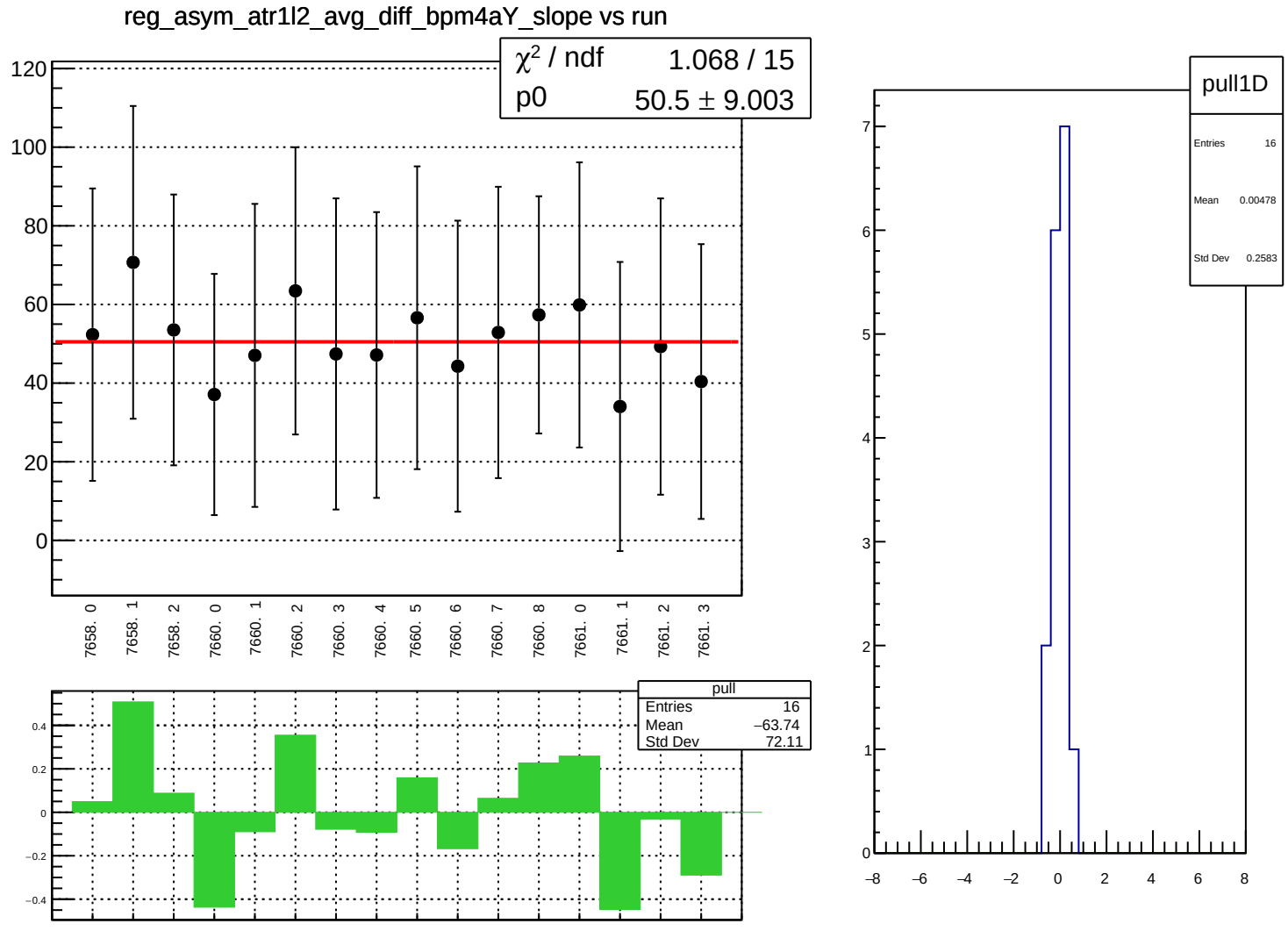

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.64 / 15
p0 −38.66 ± 11.36
40
20
0
−20
−40
−60
−80
−100
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −5.503
Std Dev 17.02
0.4
0.2
0
−0.2
−0.4
−0.6

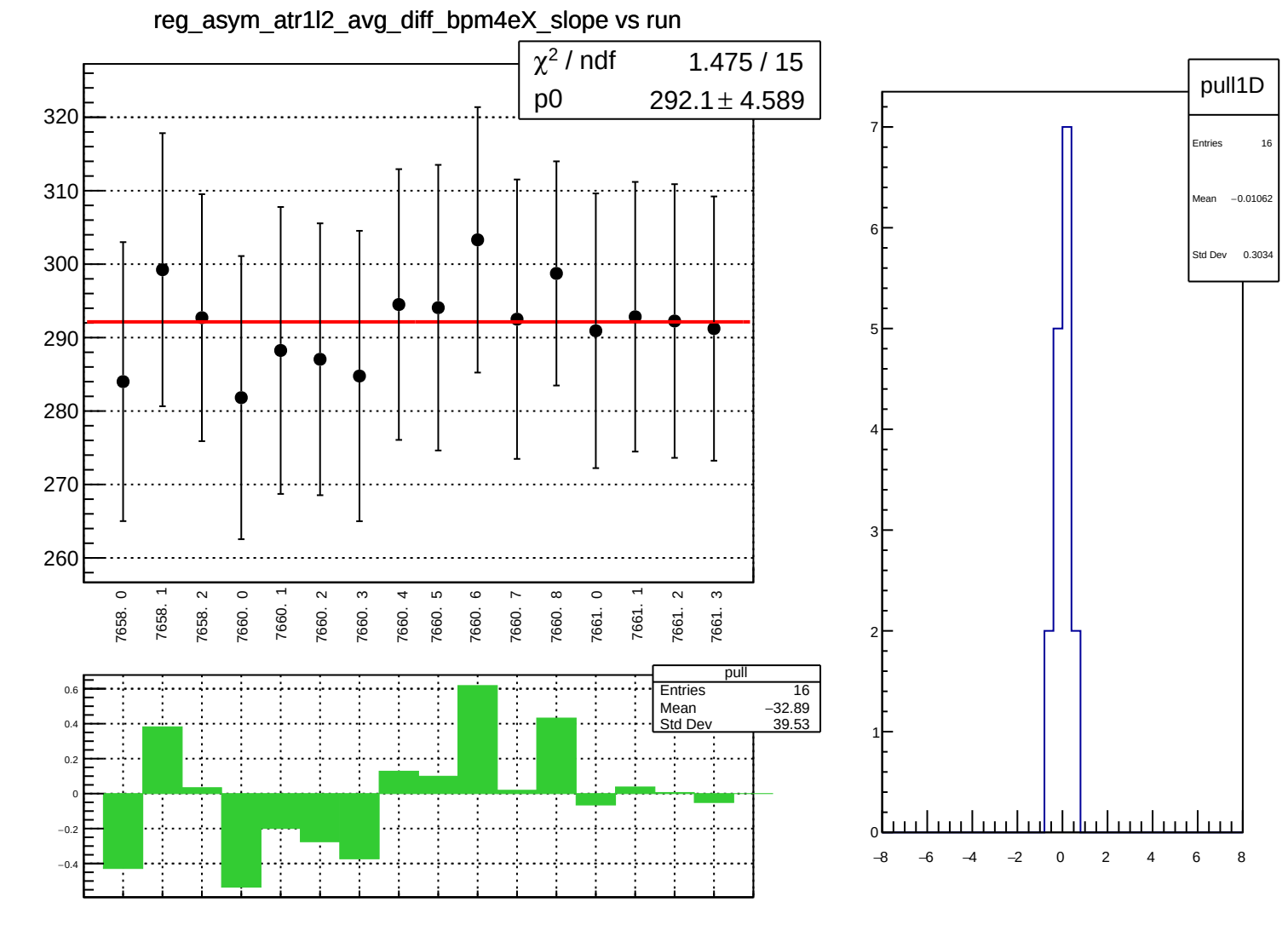

pull1D
Entries 16
Mean 0.01327
Std Dev 0.3199
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

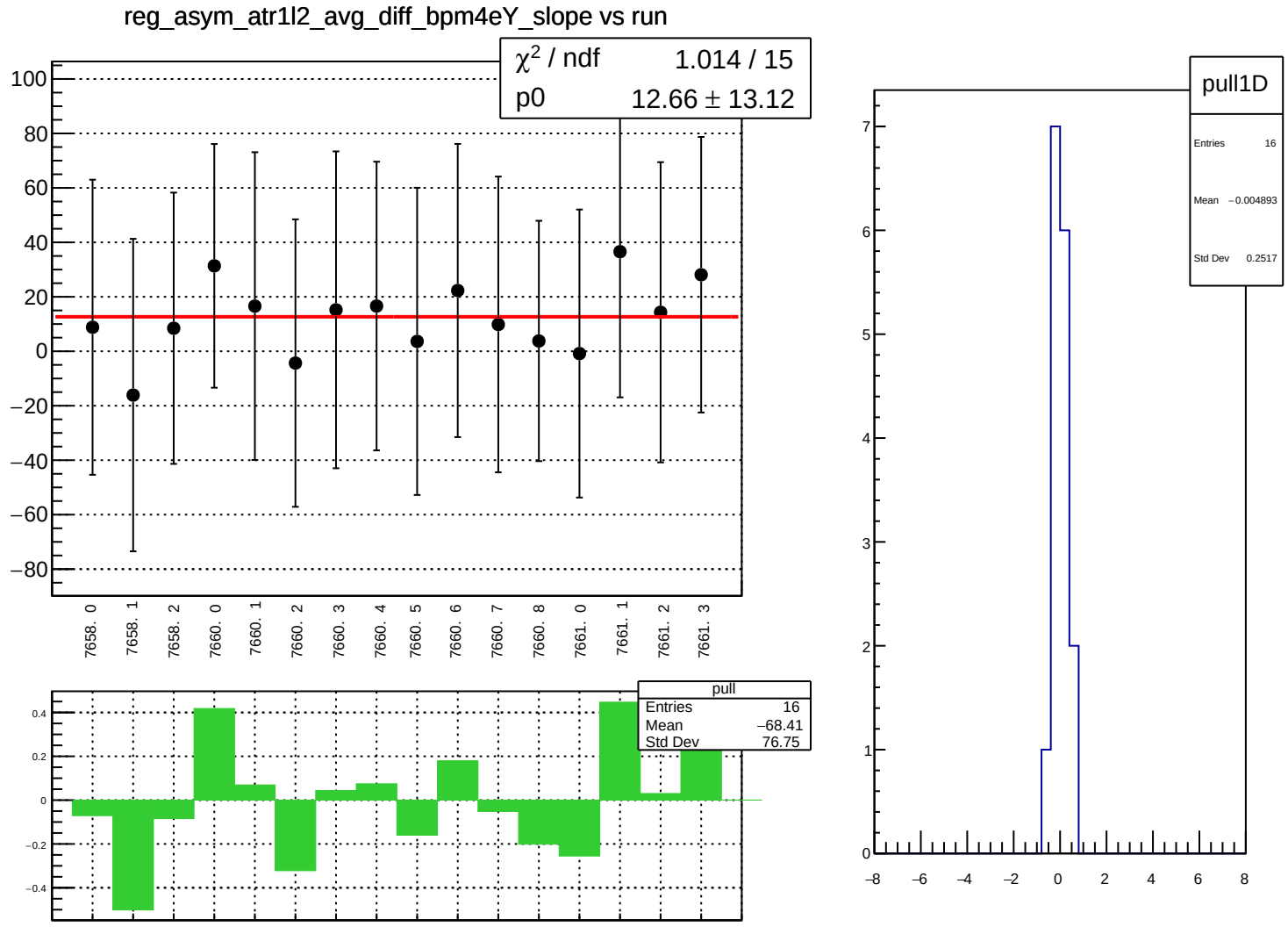

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 0.9918 / 15
p0 148 ± 0.6433
152
151
150
149
148
147
146
145
144
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −16.49
Std Dev 9.715
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 16
Mean 0.001466
Std Dev 0.249
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

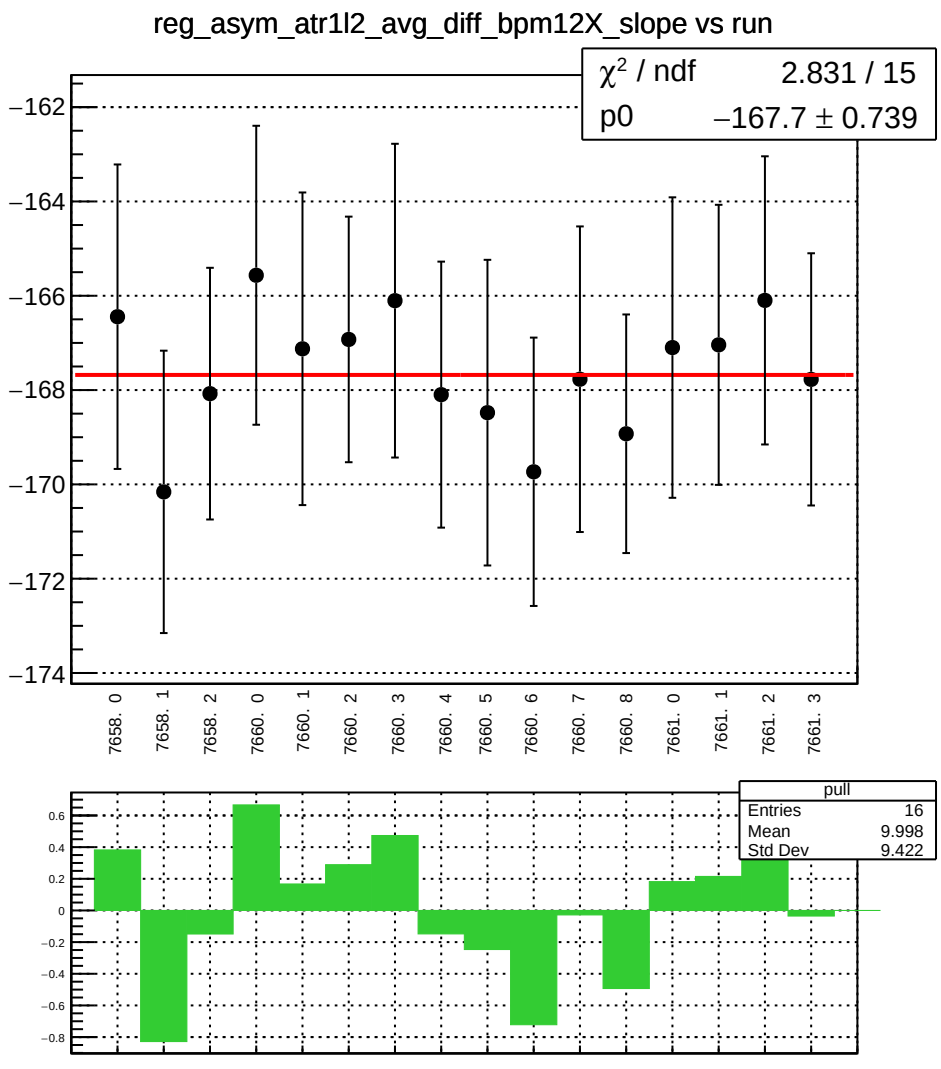

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 1.287 / 15
p0 −370.2 ± 5.584
−330
−340
−350
−360
−370
−380
−390
−400
−410
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −38.33
Std Dev 45.08
0.4
0.2
0
−0.2
−0.4
−0.6

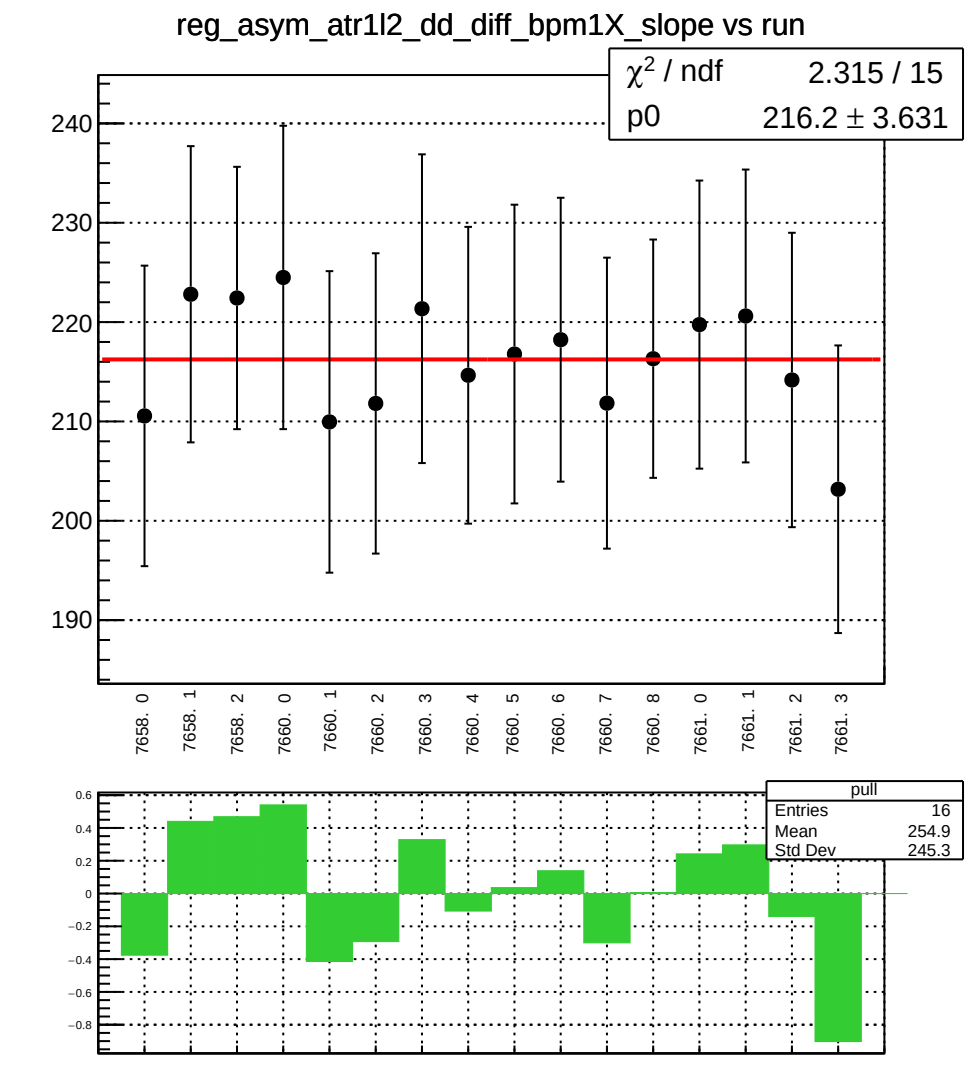

pull1D
Entries 16
Mean 0.01027
Std Dev 0.2835
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

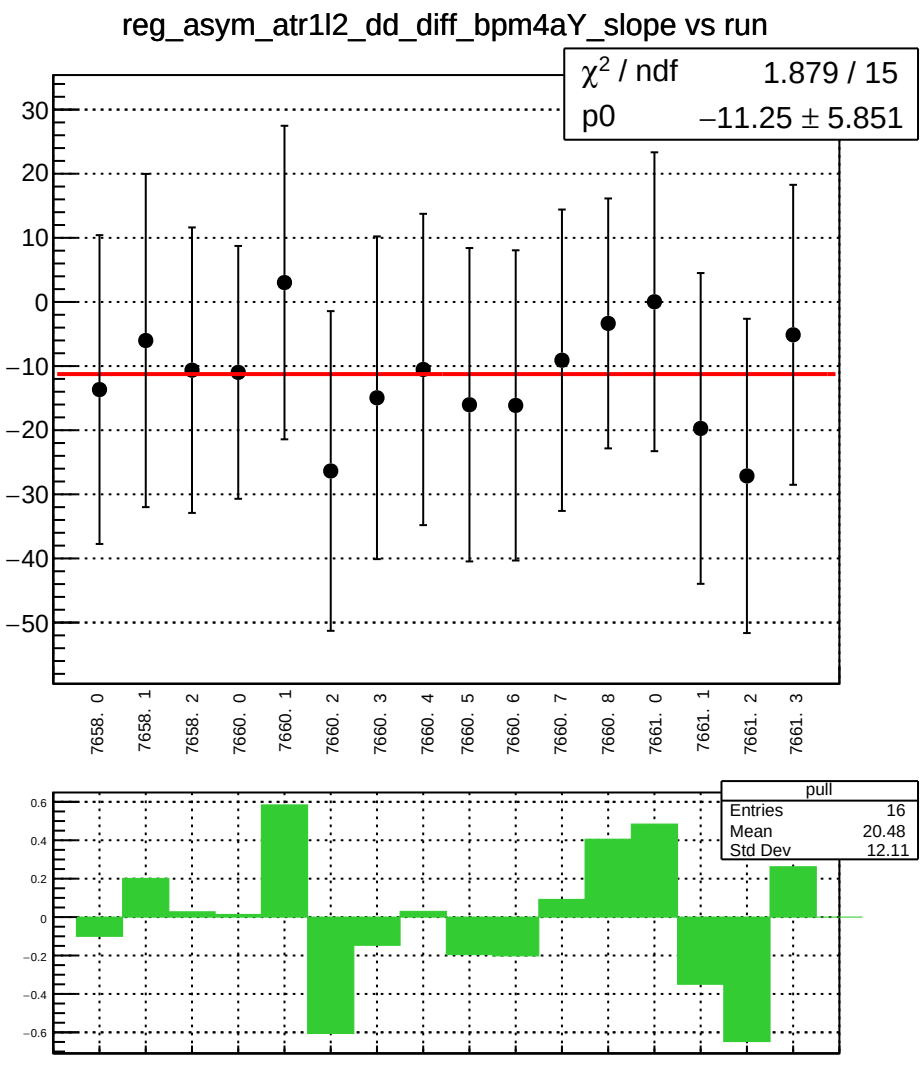

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.068 / 15
p0 50.5 ± 9.003
120
100
80
60
40
20
0
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −63.74
Std Dev 72.11
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 16
Mean 0.00478
Std Dev 0.2583
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

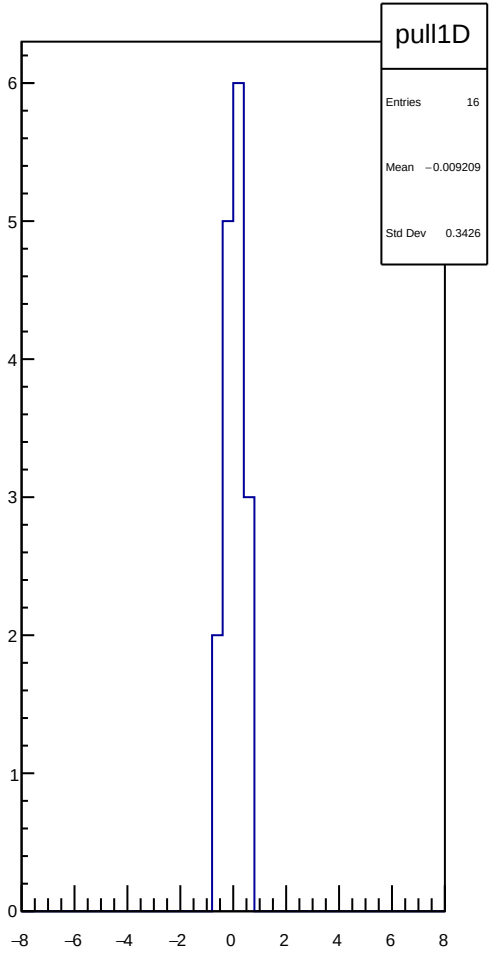

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.475 / 15
p0 292.1 ± 4.589
320
310
300
290
280
270
260
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −32.89
Std Dev 39.53
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 16
Mean −0.01062
Std Dev 0.3034
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

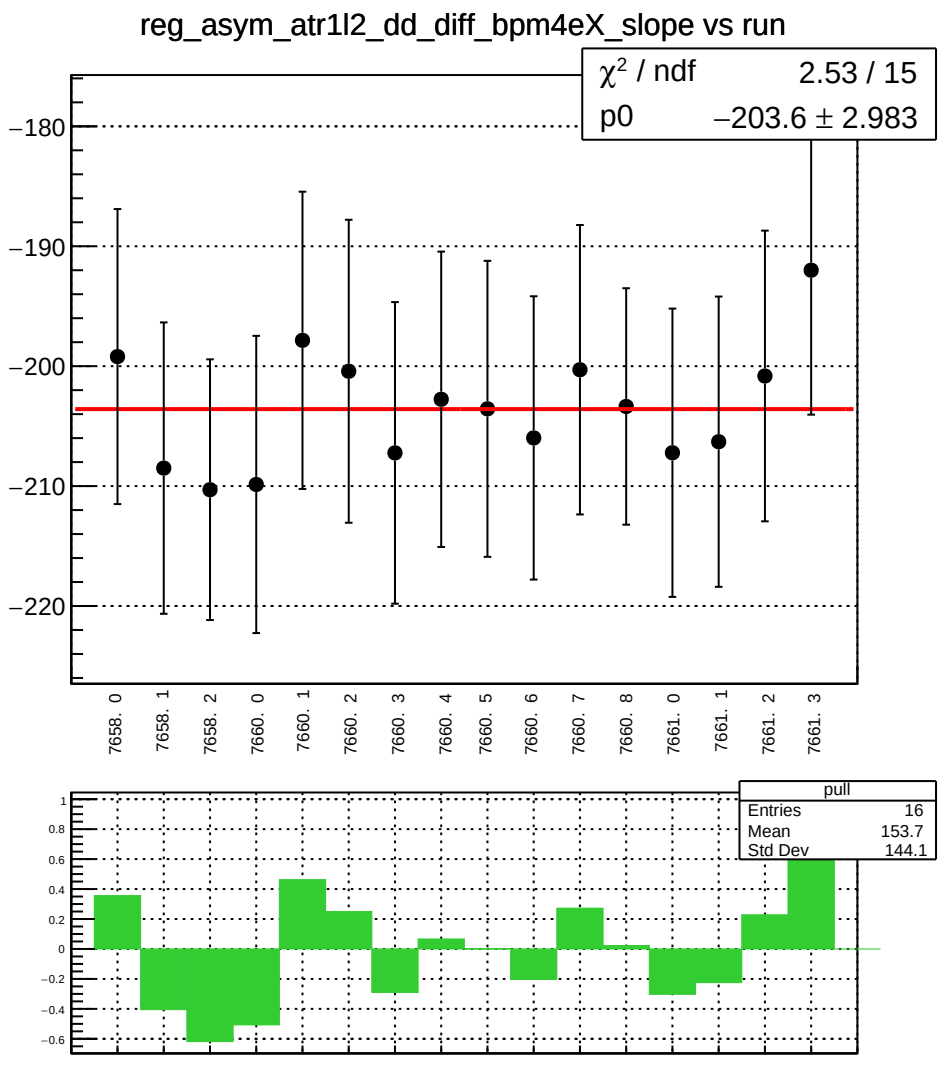

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.014 / 15
p0 12.66 ± 13.12
100
80
60
40
20
0
−20
−40
−60
−80
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −68.41
Std Dev 76.75
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 16
Mean −0.004893
Std Dev 0.2517
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

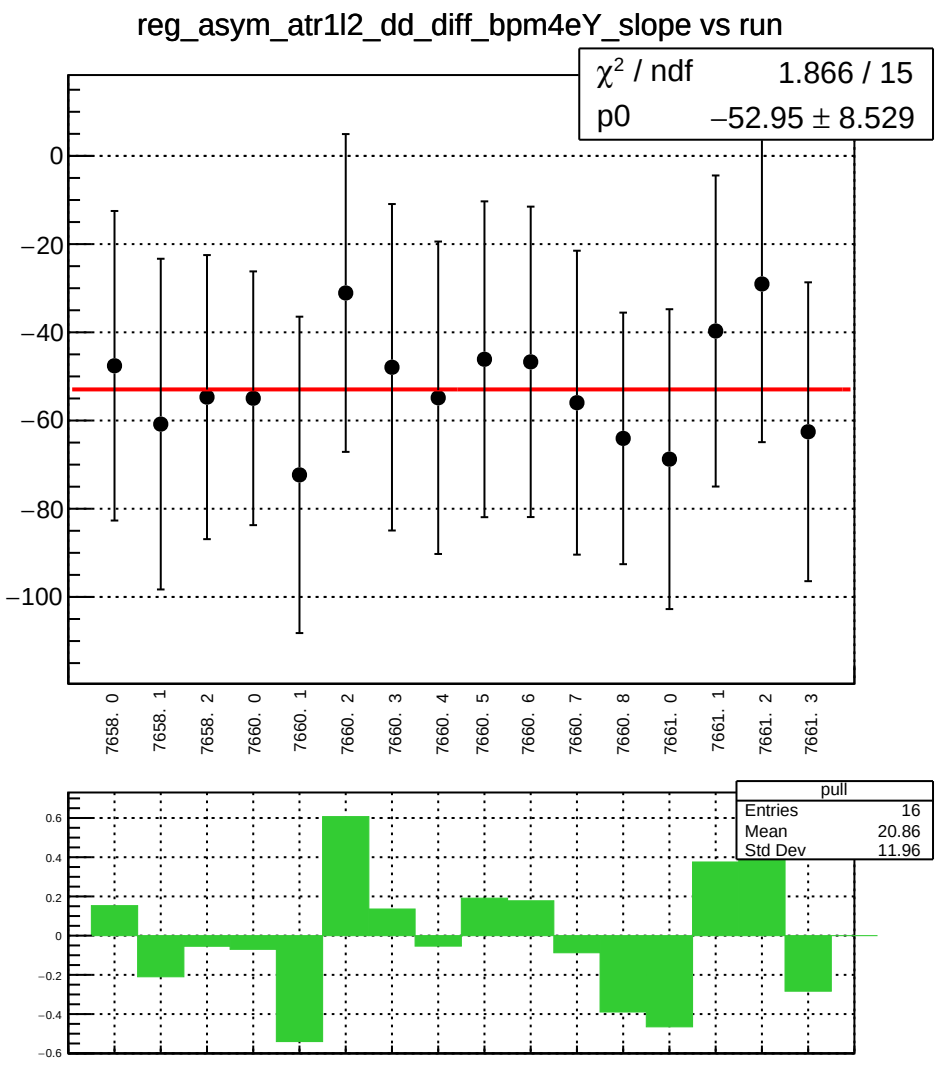

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 2.831 / 15
p0 −167.7 ± 0.739
−162
−164
−166
−168
−170
−172
−174
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 9.998
Std Dev 9.422
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 16
Mean 0.01521
Std Dev 0.4203
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

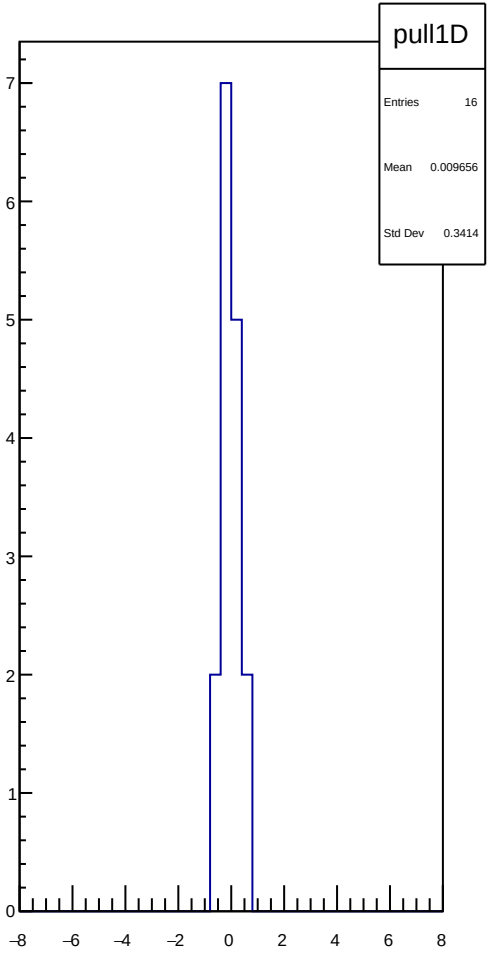

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 2.315 / 15
p0 216.2 ± 3.631
240
230
220
210
200
190
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 254.9
Std Dev 245.3
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 16
Mean −0.002219
Std Dev 0.3804
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

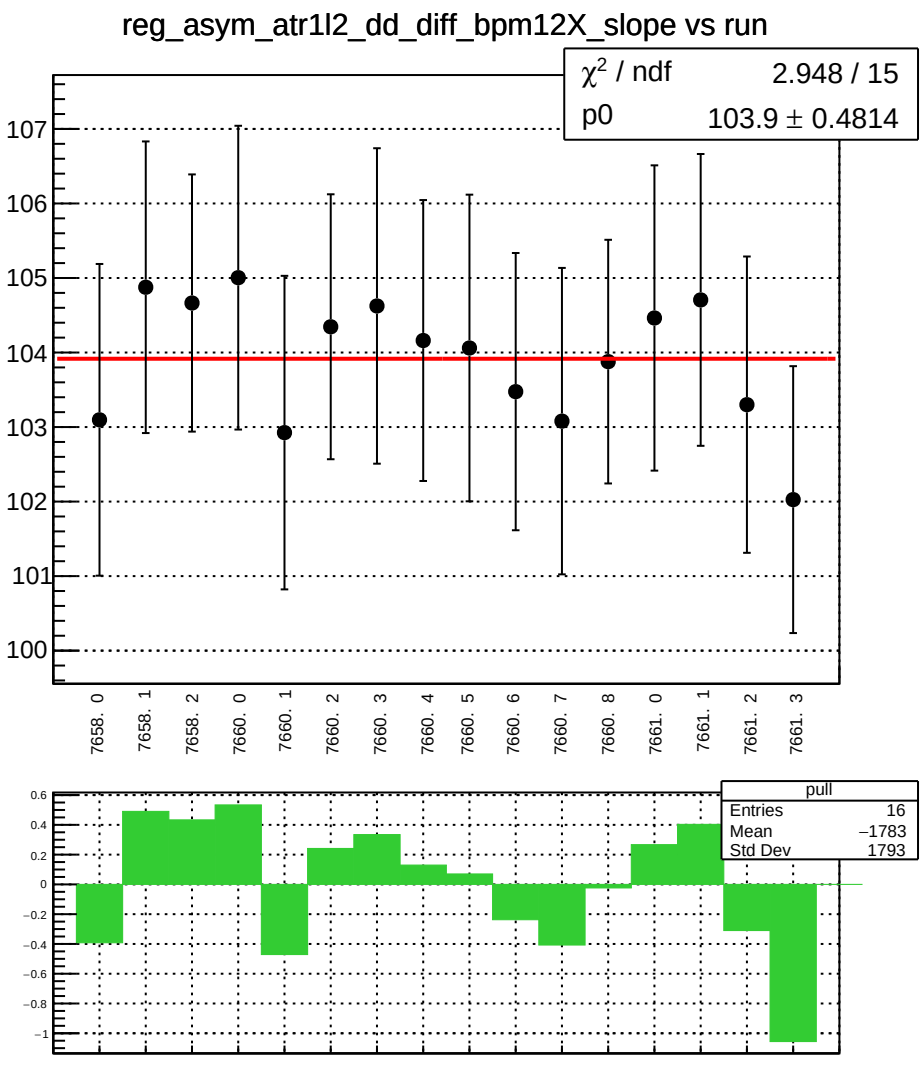

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.879 / 15
p0 −11.25 ± 5.851
30
20
10
0
−10
−20
−30
−40
−50
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 20.48
Std Dev 12.11
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

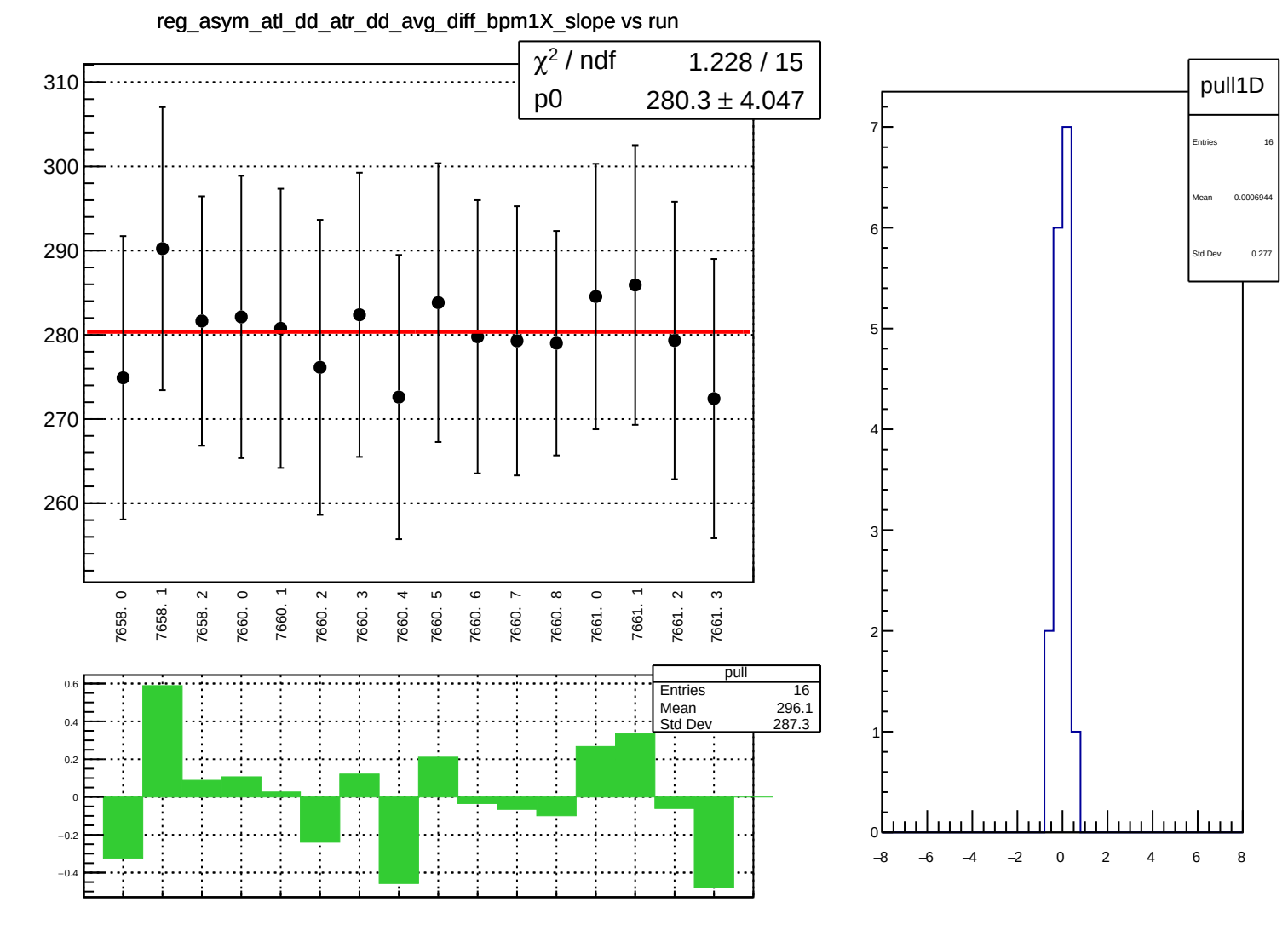

pull1D
Entries 16
Mean −0.009209
Std Dev 0.3426
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

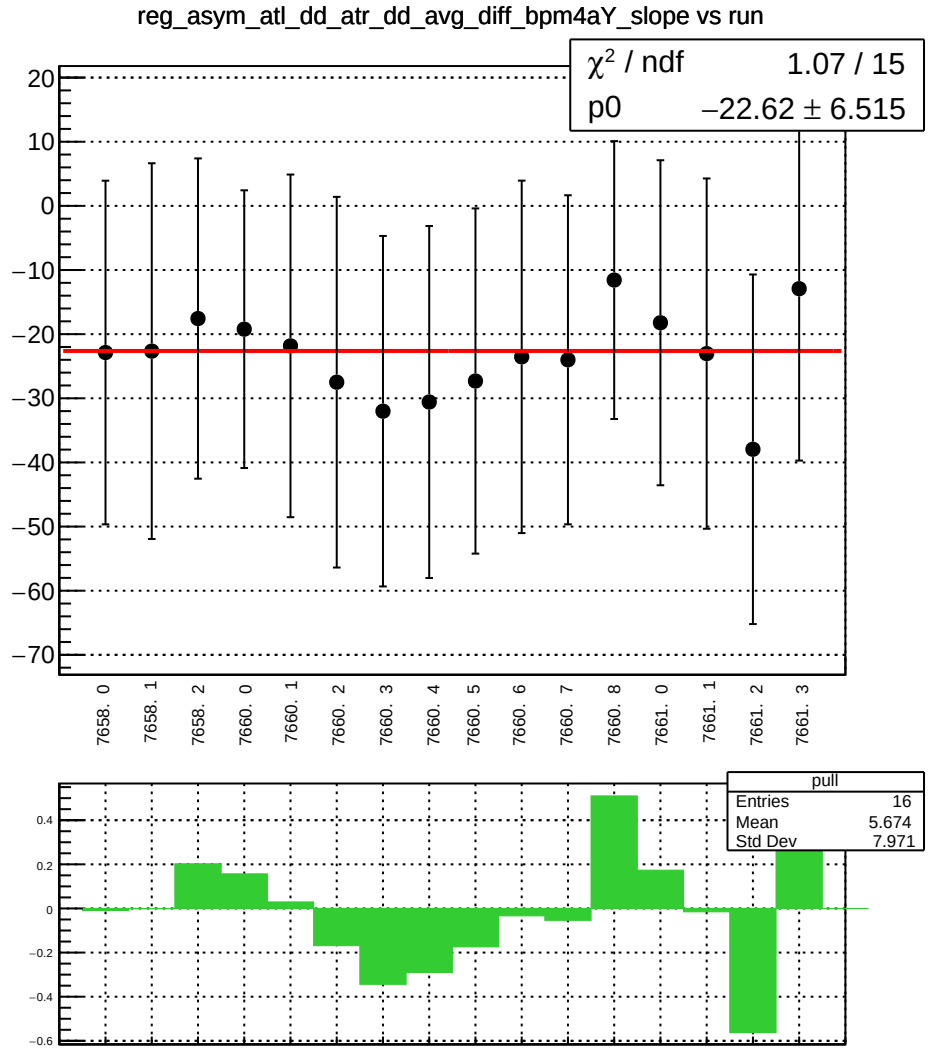

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.53 / 15
p0 −203.6 ± 2.983
−180
−190
−200
−210
−220
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 153.7
Std Dev 144.1
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 16
Mean 0.004441
Std Dev 0.3976
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

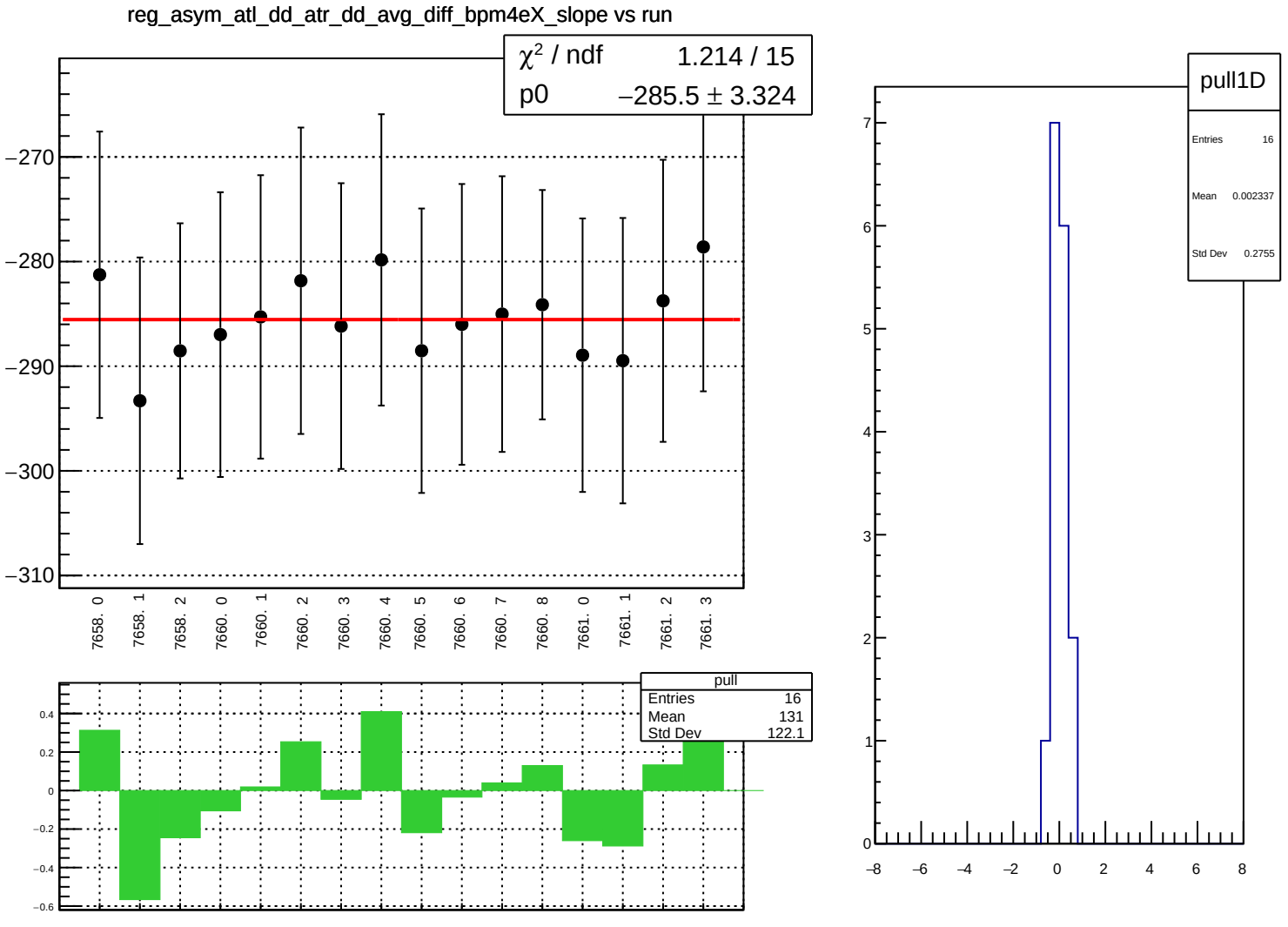

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.866 / 15
p0 −52.95 ± 8.529
0
−20
−40
−60
−80
−100
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 20.86
Std Dev 11.96
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

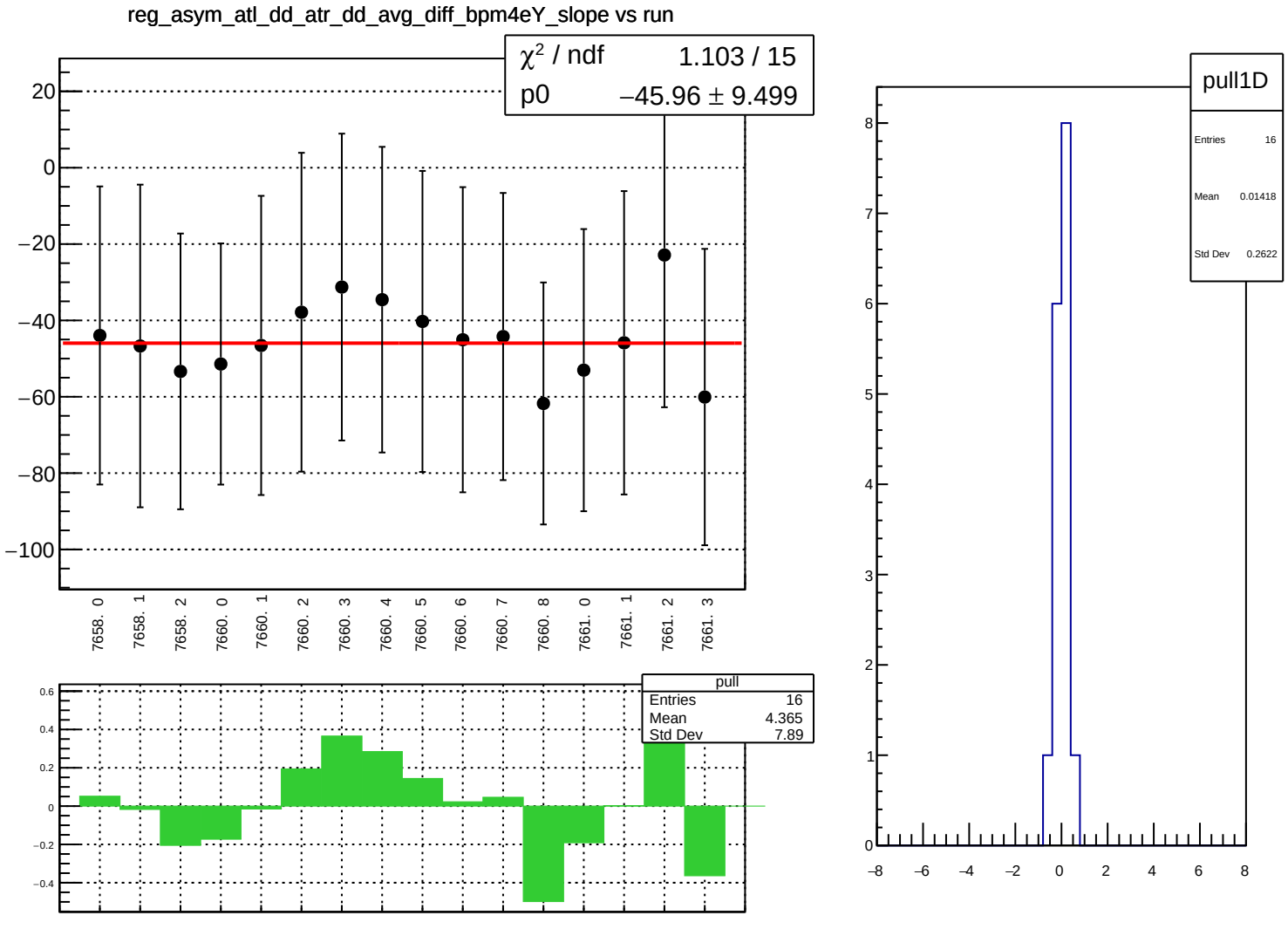

pull1D
Entries 16
Mean 0.009656
Std Dev 0.3414
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

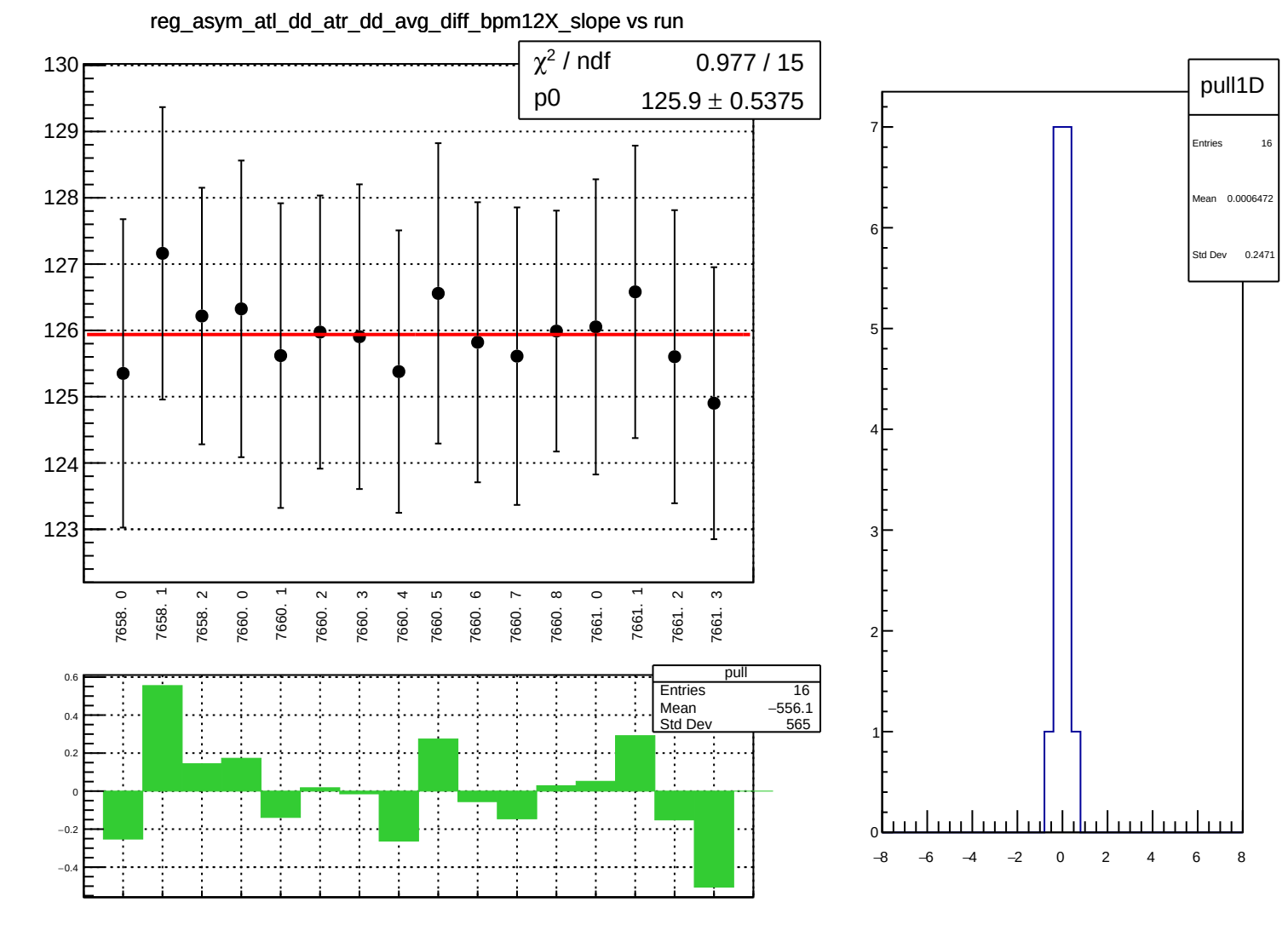

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 2.948 / 15
p0 103.9 ± 0.4814
107
106
105
104
103
102
101
100
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −1783
Std Dev 1793
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 16
Mean 0.0004358
Std Dev 0.4292
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

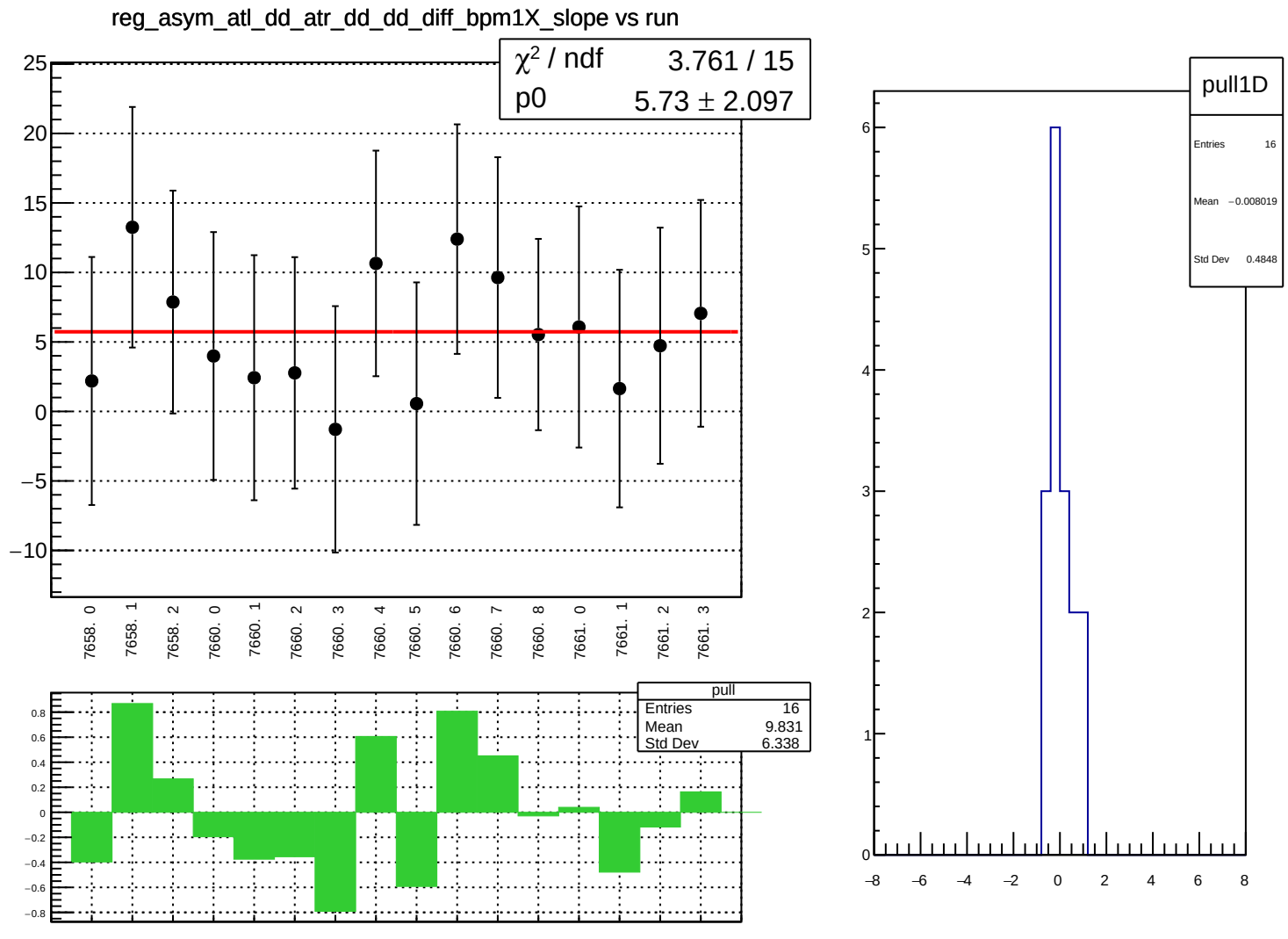

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 1.228 / 15
p0 280.3 ± 4.047
310
300
290
280
270
260
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 296.1
Std Dev 287.3
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 16
Mean −0.0006944
Std Dev 0.277
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

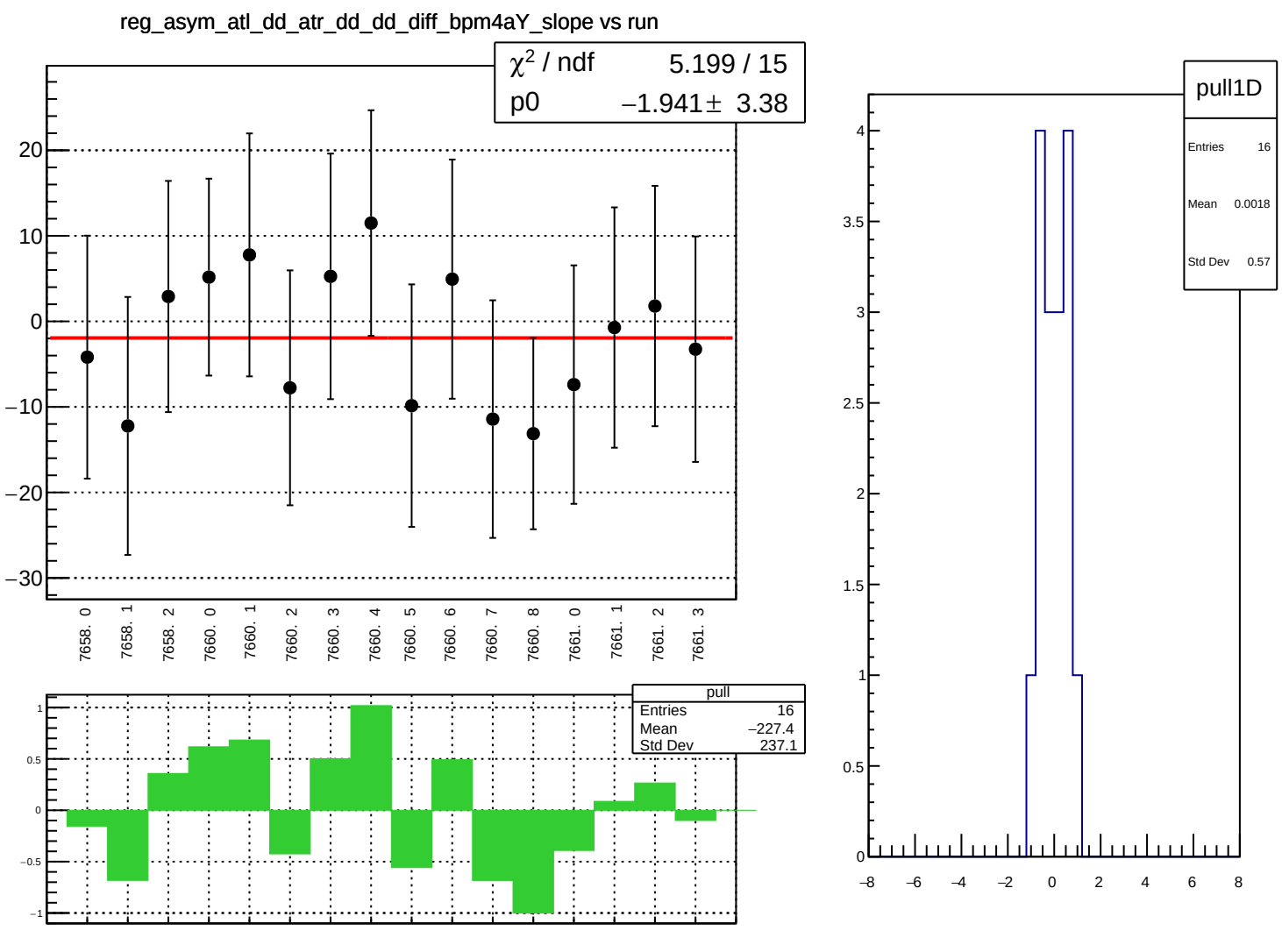

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.07 / 15
p0 −22.62 ± 6.515
20
10
0
−10
−20
−30
−40
−50
−60
−70
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 5.674
Std Dev 7.971
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 16
Mean −0.0136
Std Dev 0.2582
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

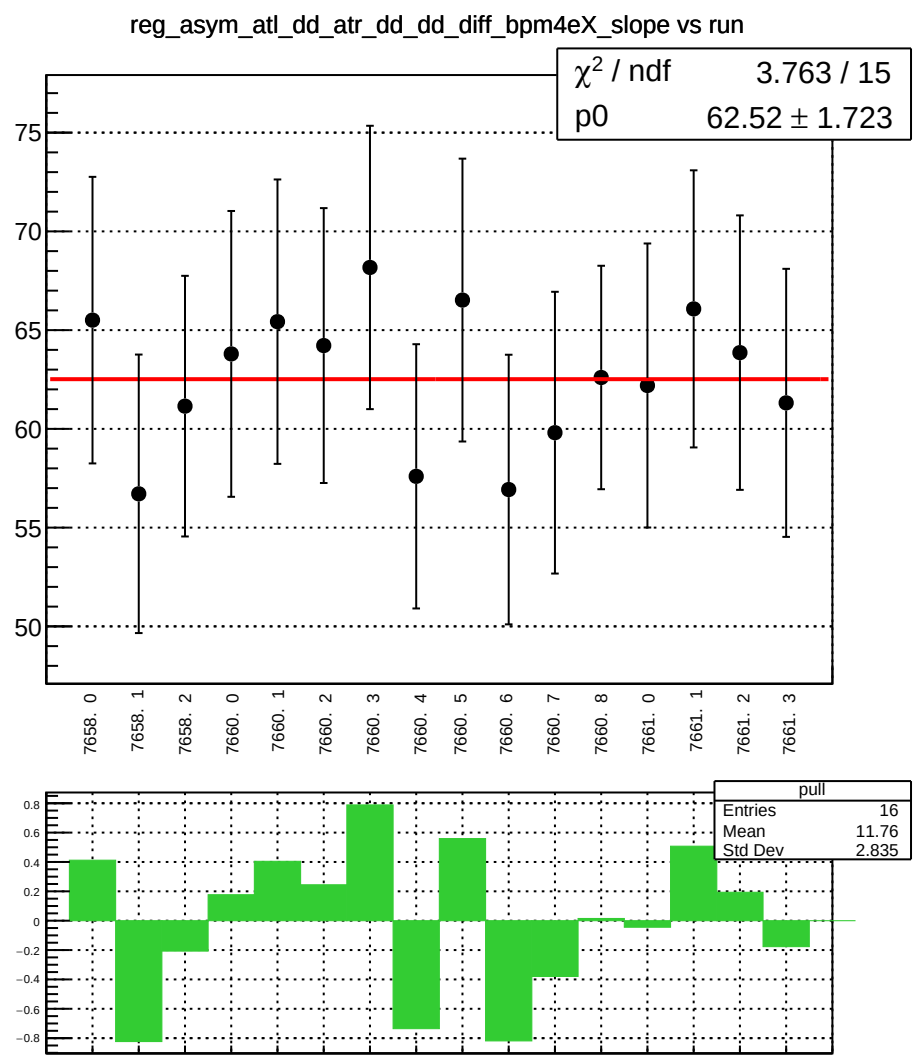

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.214 / 15
p0 −285.5 ± 3.324
−270
−280
−290
−300
−310
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 131
Std Dev 122.1
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 16
Mean 0.002337
Std Dev 0.2755
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

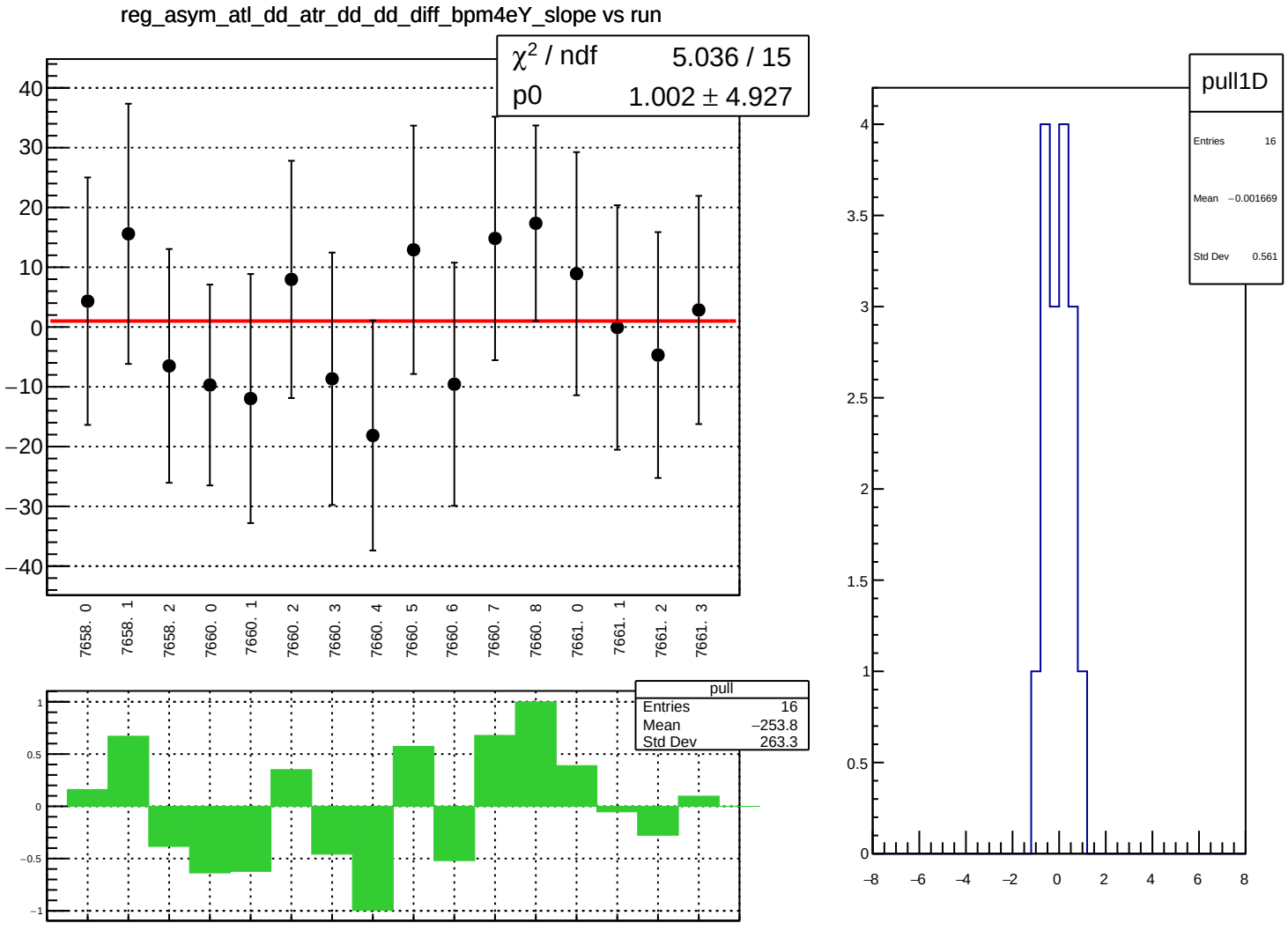

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.103 / 15
p0 −45.96 ± 9.499
20
0
−20
−40
−60
−80
−100
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 4.365
Std Dev 7.89
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 16
Mean 0.01418
Std Dev 0.2622
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

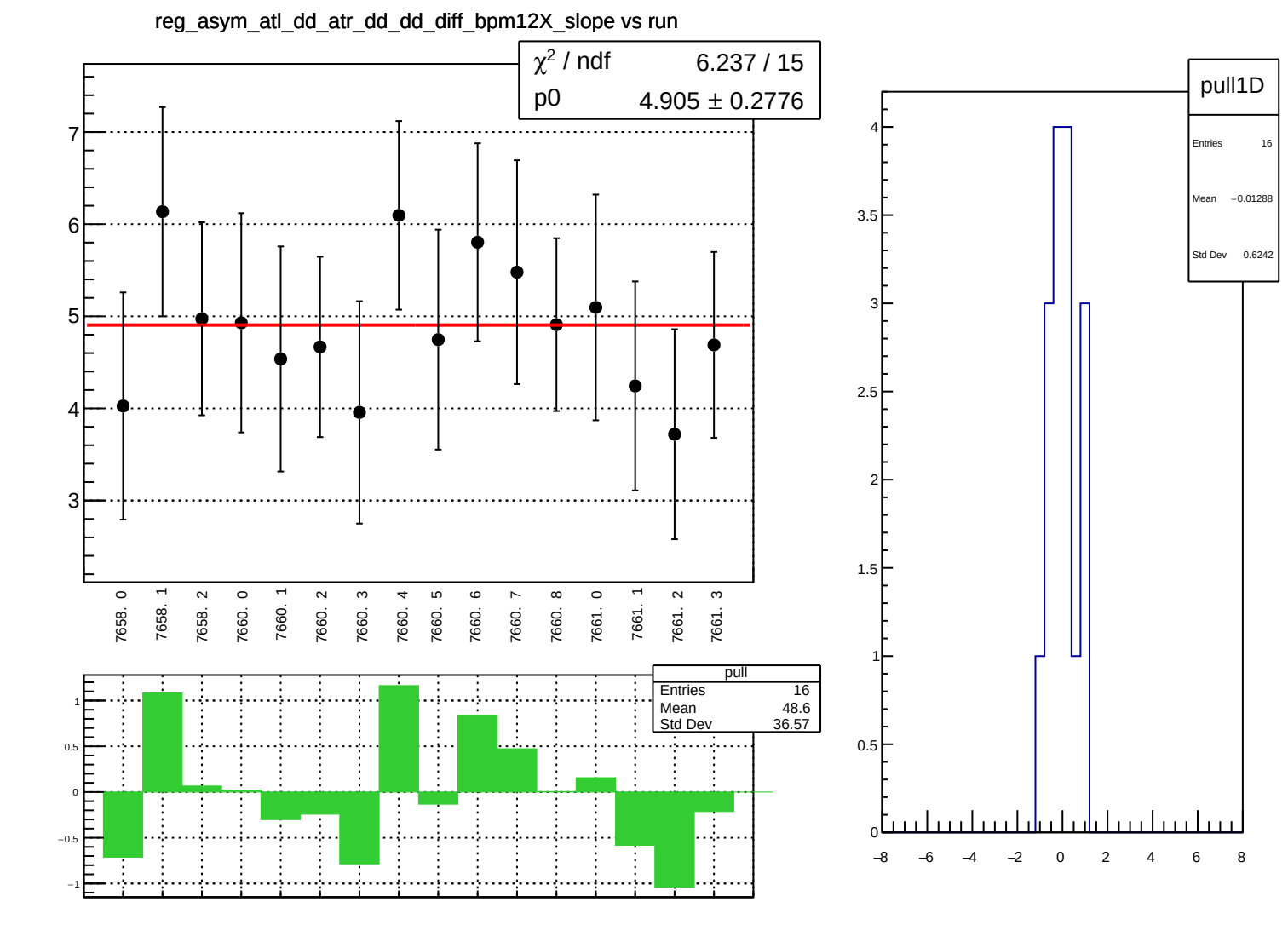

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 0.977 / 15
p0 125.9 ± 0.5375
130
129
128
127
126
125
124
123
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −556.1
Std Dev 565
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 16
Mean 0.0006472
Std Dev 0.2471
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

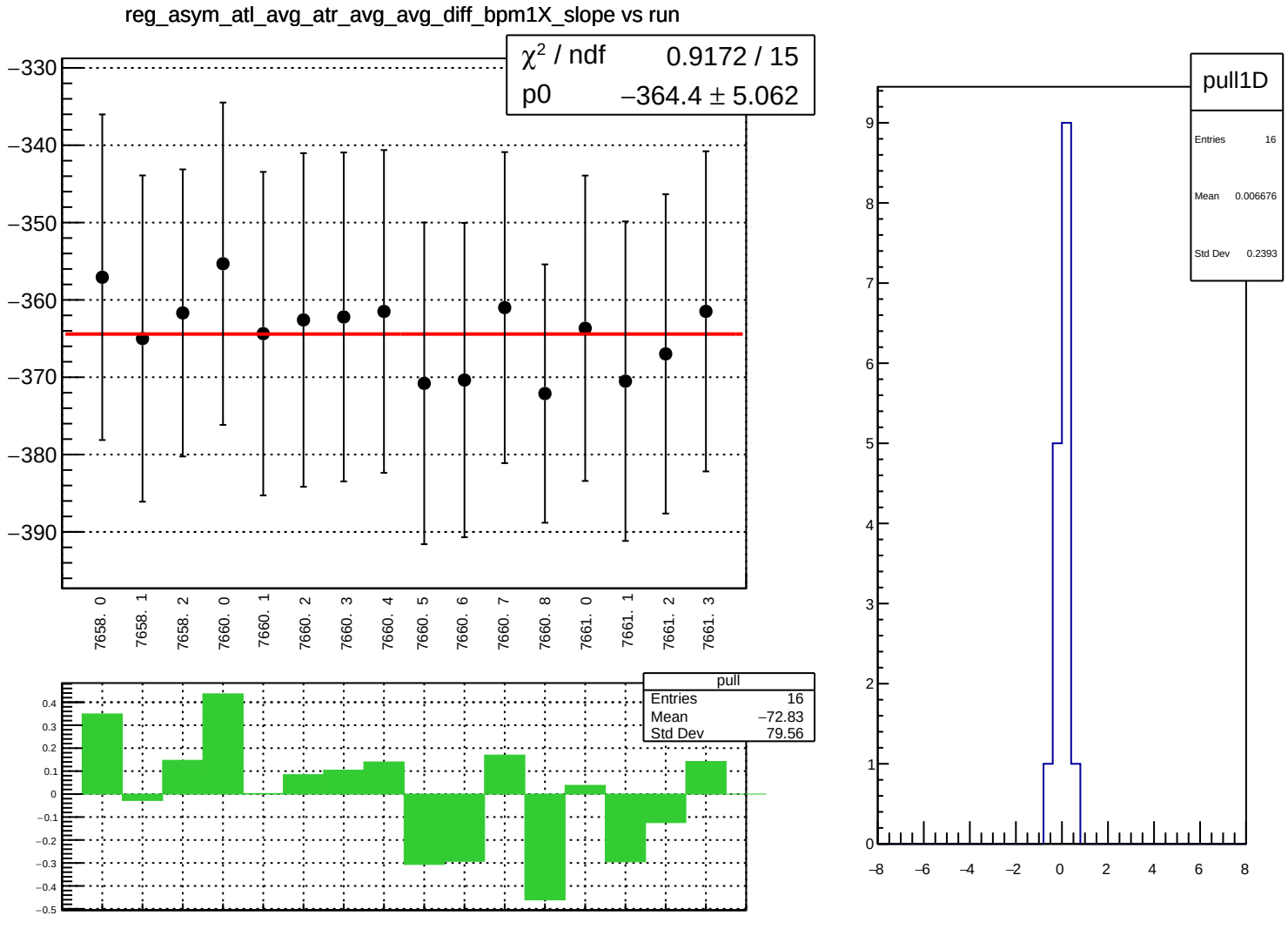

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 3.761 / 15
p0 5.73 ± 2.097
25
20
15
10
5
0
−5
−10
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 9.831
Std Dev 6.338
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 16
Mean −0.008019
Std Dev 0.4848
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

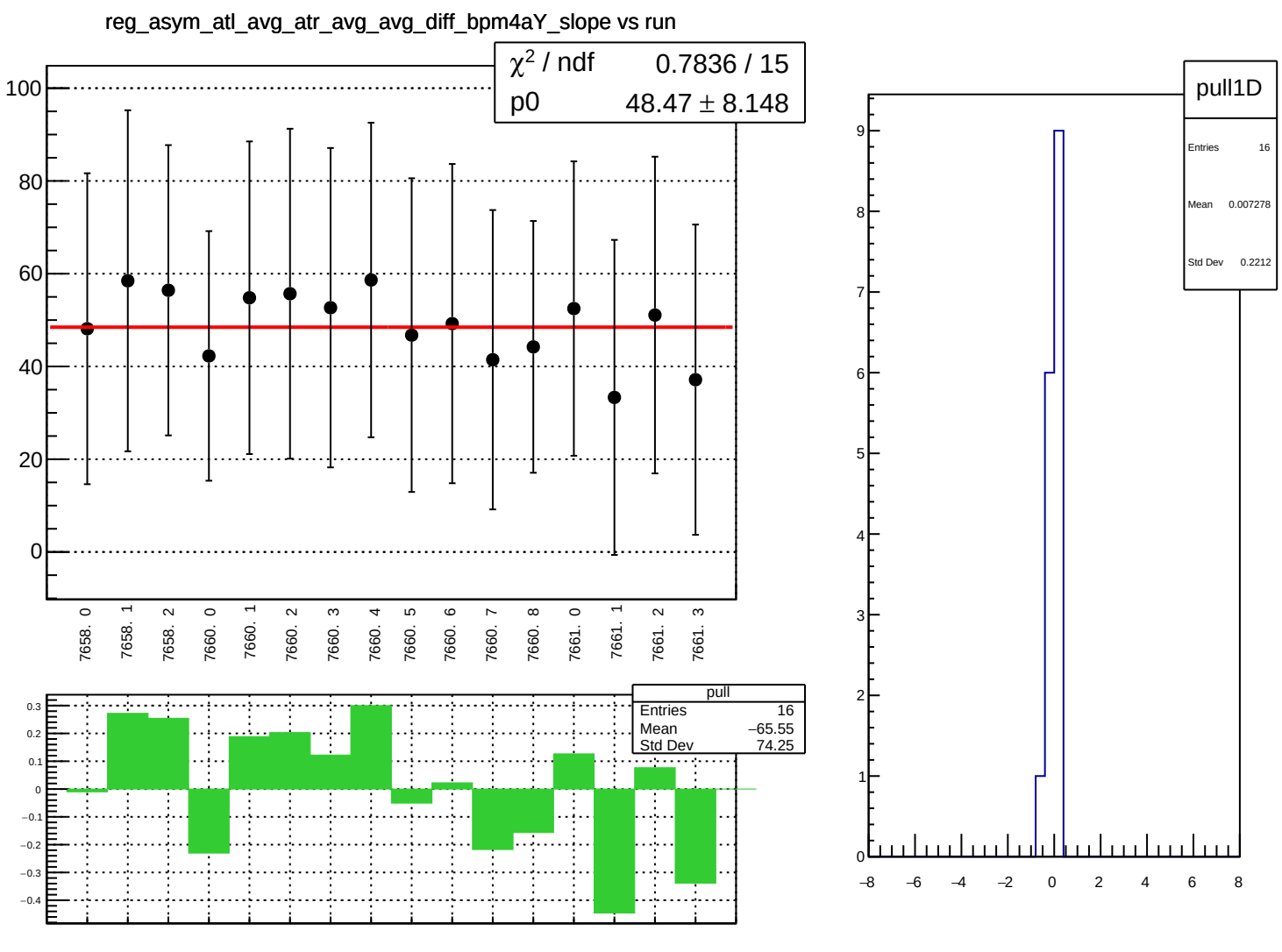

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.199 / 15
p0 −1.941 ± 3.38
20
10
0
−10
−20
−30
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −227.4
Std Dev 237.1
1
0.5
0
−0.5
−1
pull1D
Entries 16
Mean 0.0018
Std Dev 0.57
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

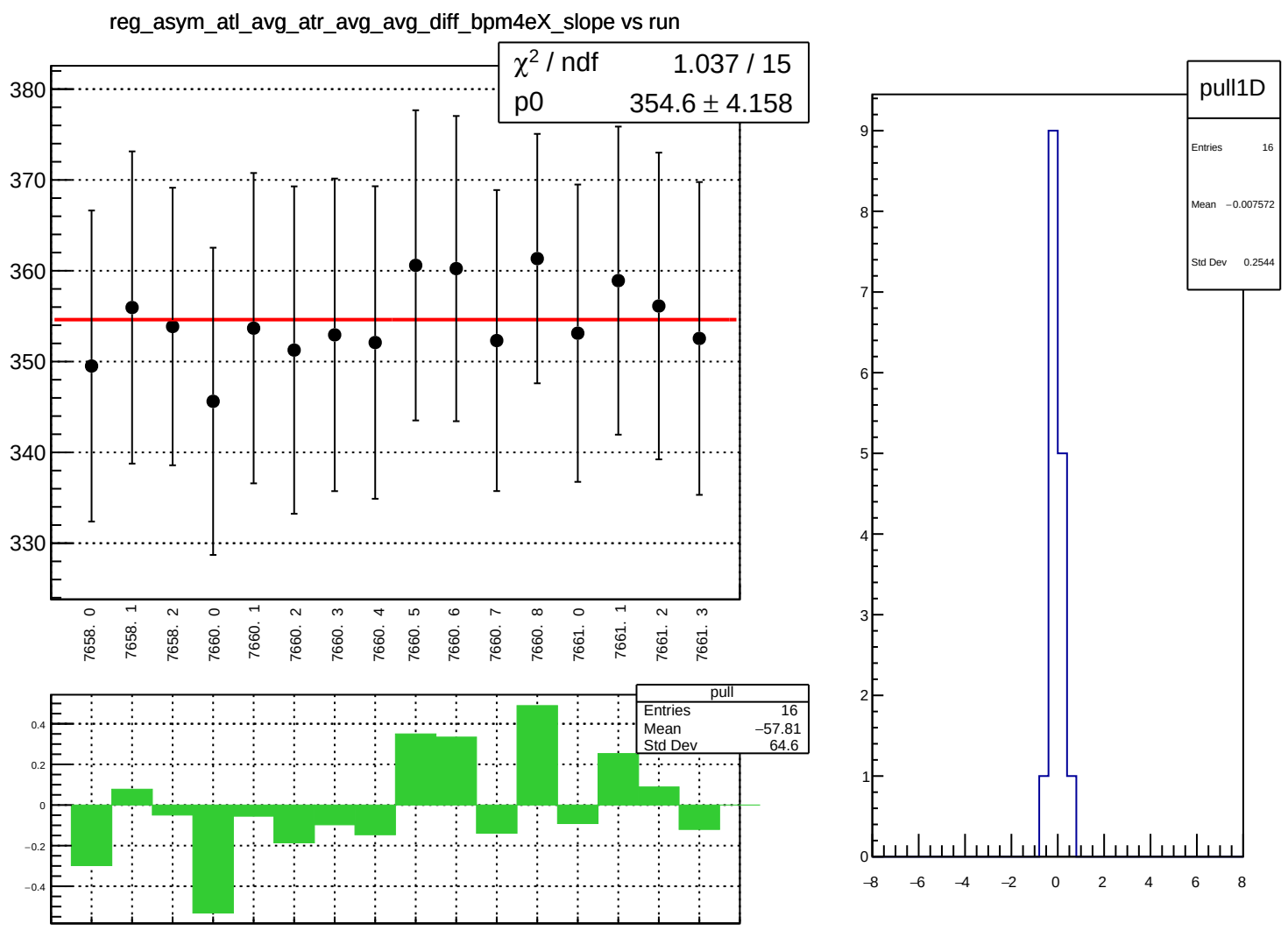

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.763 / 15
p0 62.52 ± 1.723
75
70
65
60
55
50
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 11.76
Std Dev 2.835
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 16
Mean 0.007297
Std Dev 0.4849
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

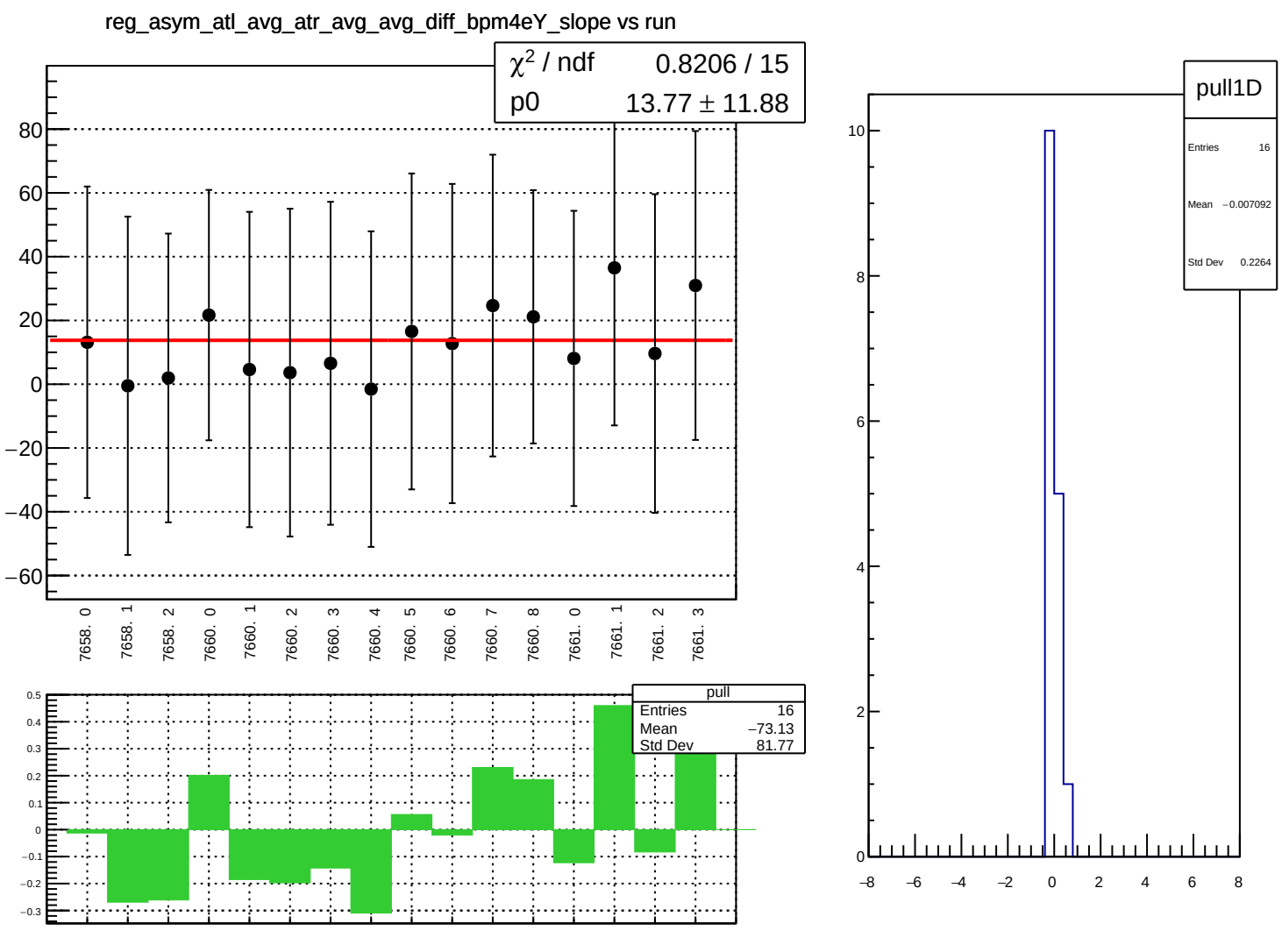

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.036 / 15
p0 1.002 ± 4.927
40
30
20
10
0
−10
−20
−30
−40
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −253.8
Std Dev 263.3
1
0.5
0
−0.5
−1
pull1D
Entries 16
Mean −0.001669
Std Dev 0.561
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

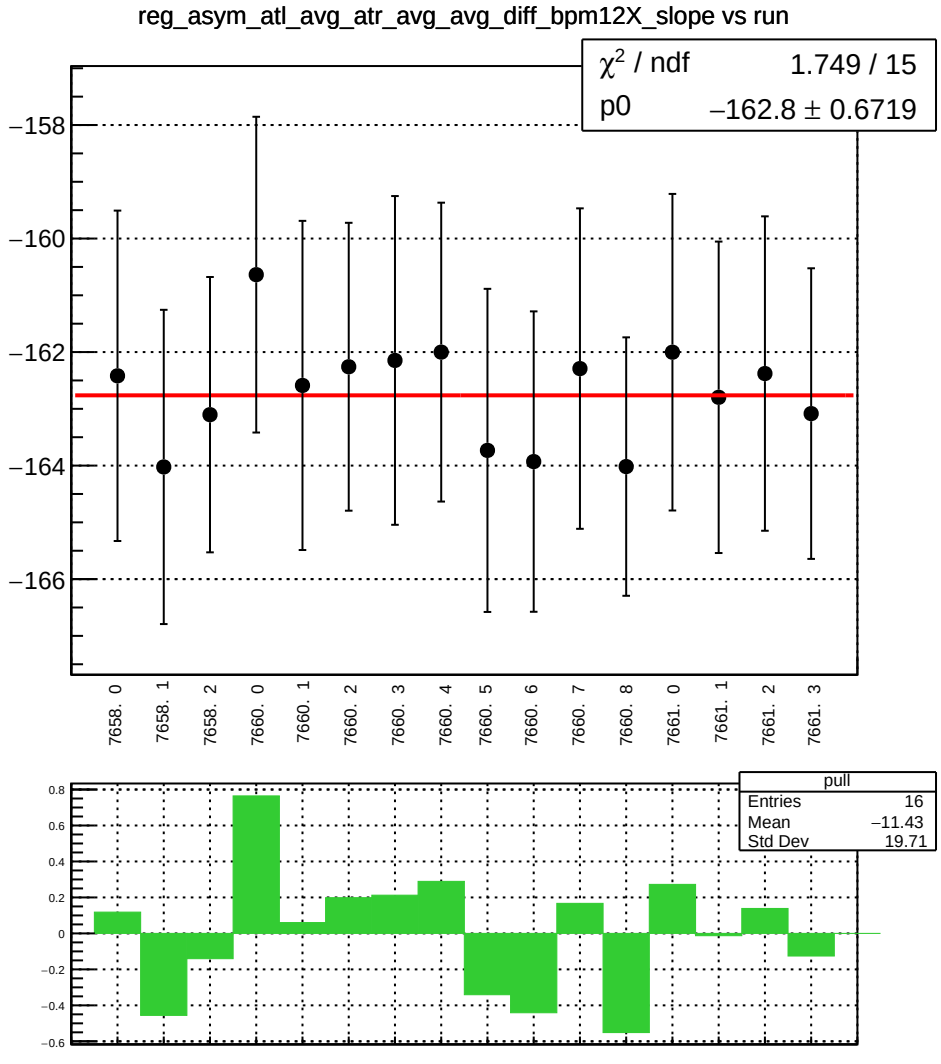

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 6.237 / 15
p0 4.905 ± 0.2776
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 48.6
Std Dev 36.57
pull1D
Entries 16
Mean −0.01288
Std Dev 0.6242

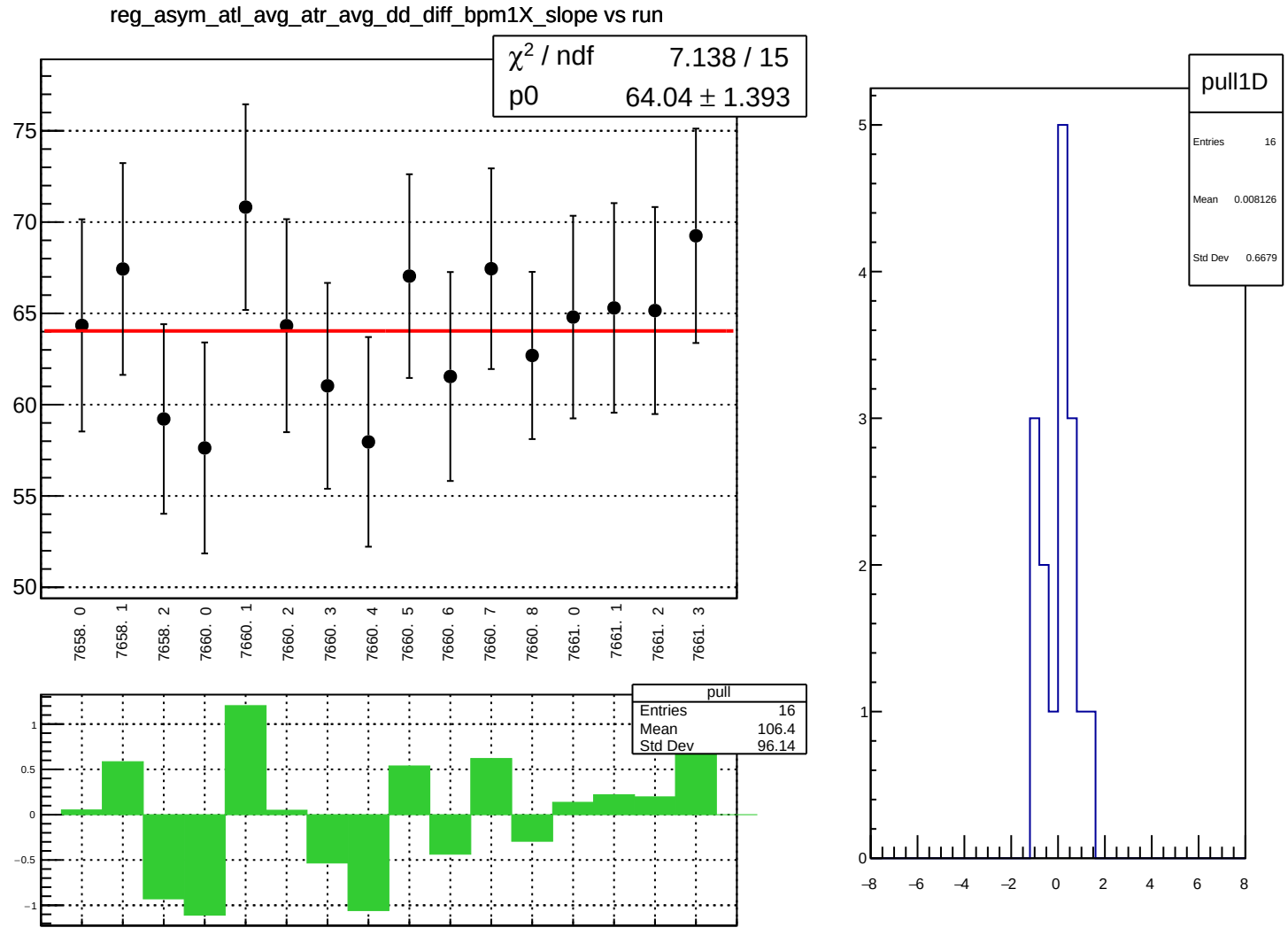

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 0.9172 / 15
p0 −364.4 ± 5.062
−330
−340
−350
−360
−370
−380
−390
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −72.83
Std Dev 79.56
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
pull1D
Entries 16
Mean 0.006676
Std Dev 0.2393
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

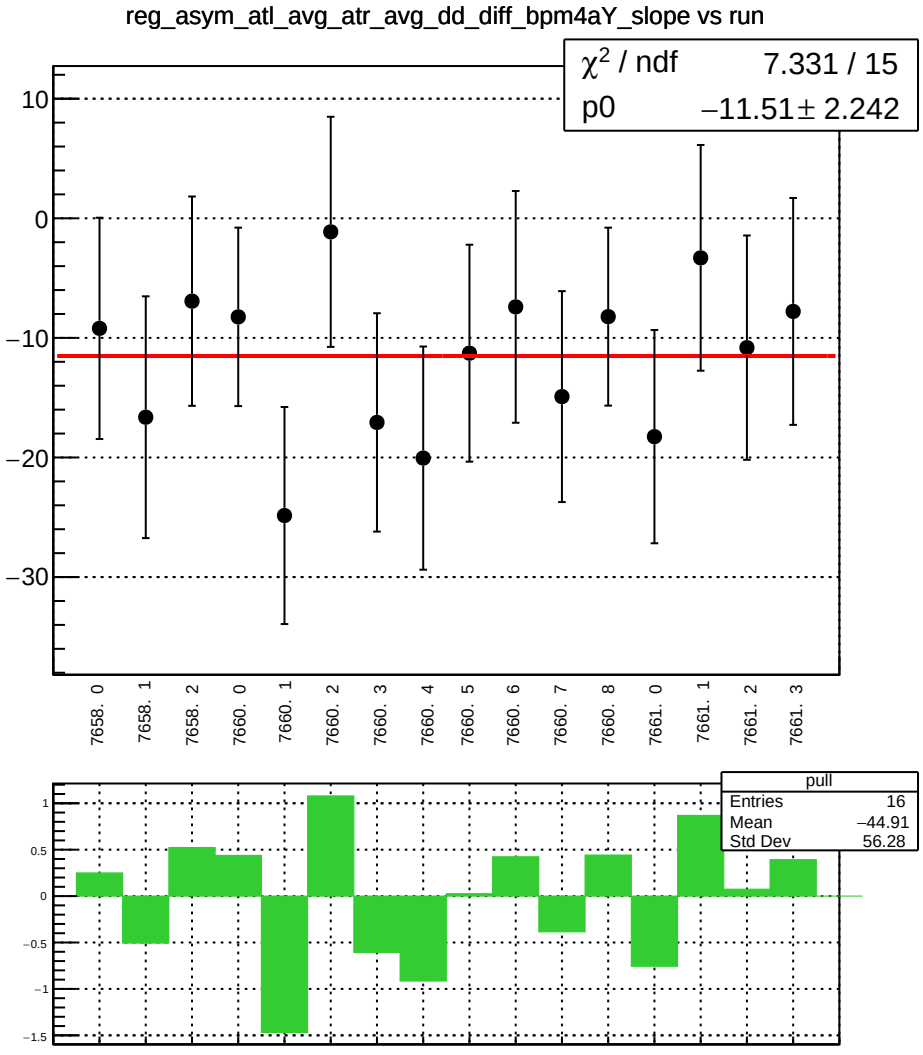

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.7836 / 15
p0 48.47 ± 8.148
100
80
60
40
20
0
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −65.55
Std Dev 74.25
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 16
Mean 0.007278
Std Dev 0.2212
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

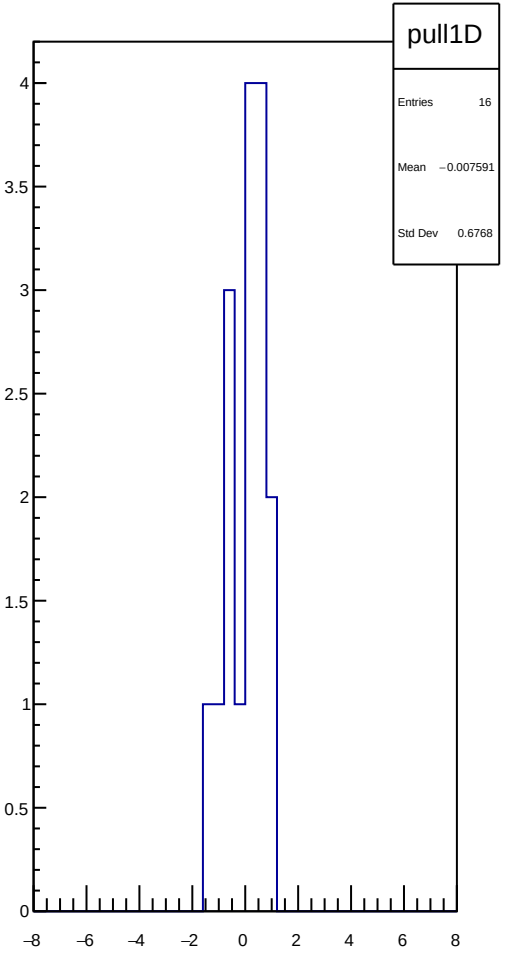

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.037 / 15
p0 354.6 ± 4.158
380
370
360
350
340
330
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −57.81
Std Dev 64.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 16
Mean −0.007572
Std Dev 0.2544
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

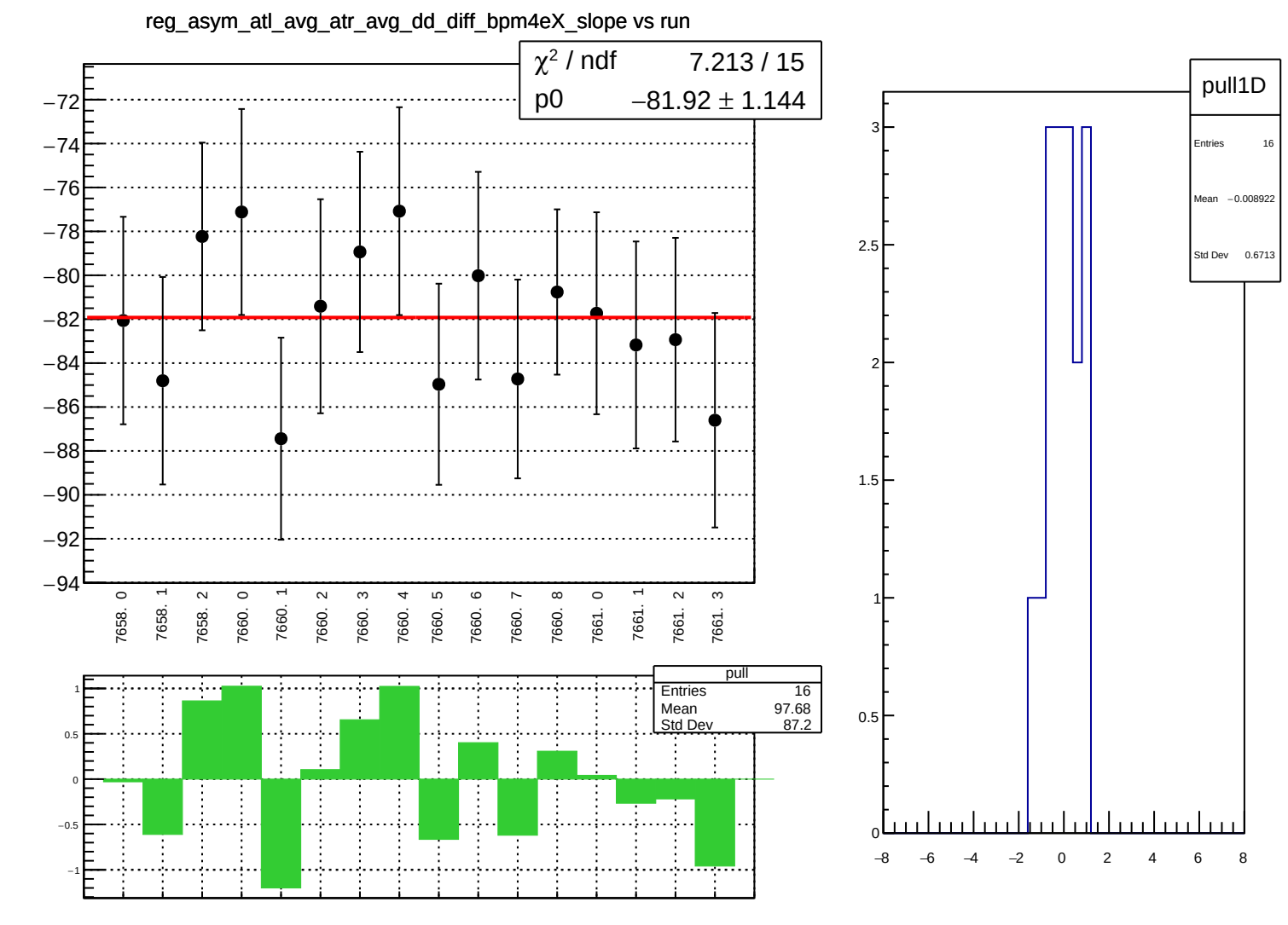

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.8206 / 15
p0 13.77 ± 11.88
80
60
40
20
0
−20
−40
−60
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −73.13
Std Dev 81.77
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 16
Mean −0.007092
Std Dev 0.2264
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

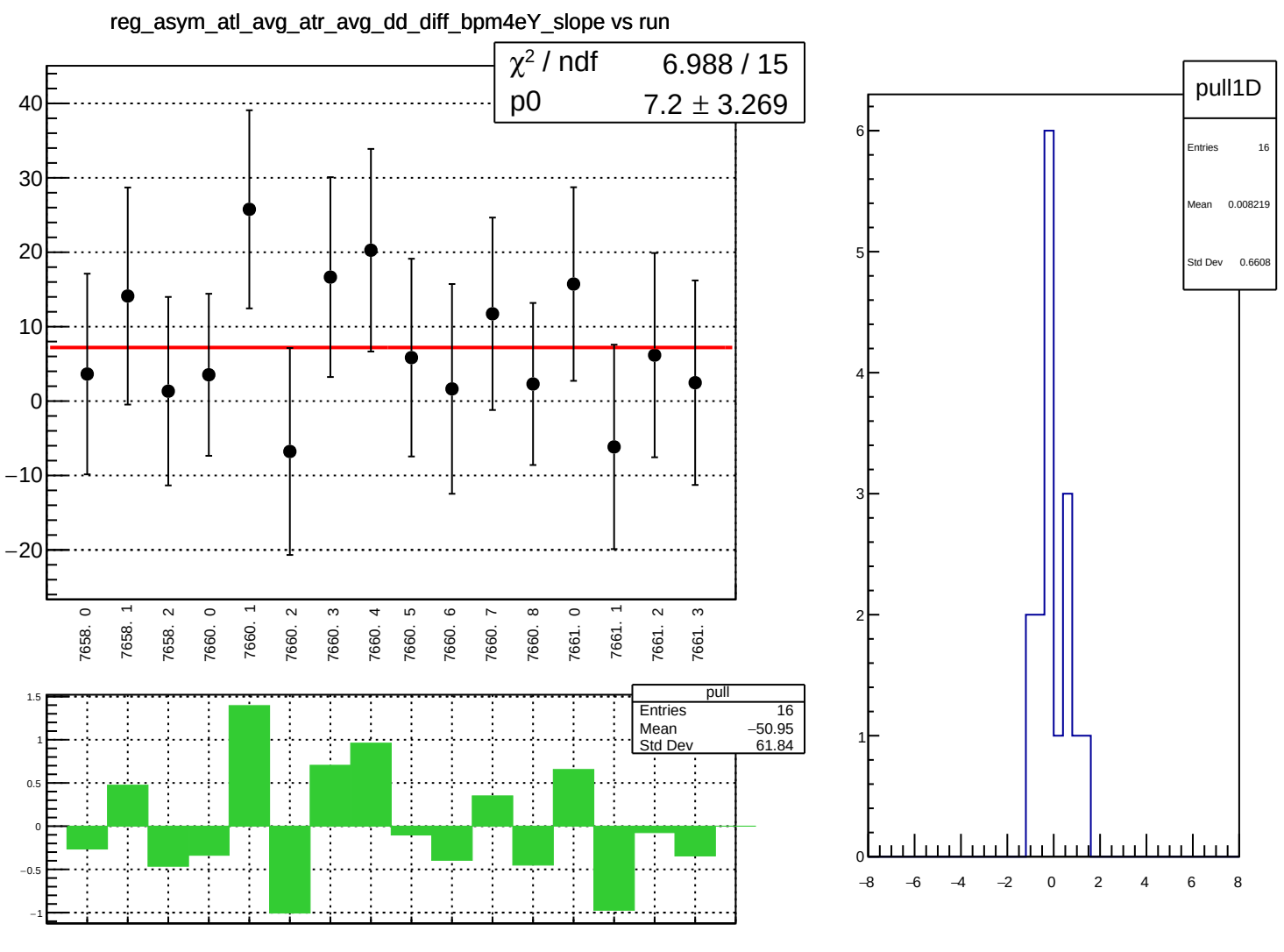

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 1.749 / 15
p0 −162.8 ± 0.6719
−158
−160
−162
−164
−166
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −11.43
Std Dev 19.71
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 16
Mean 0.009622
Std Dev 0.3305
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

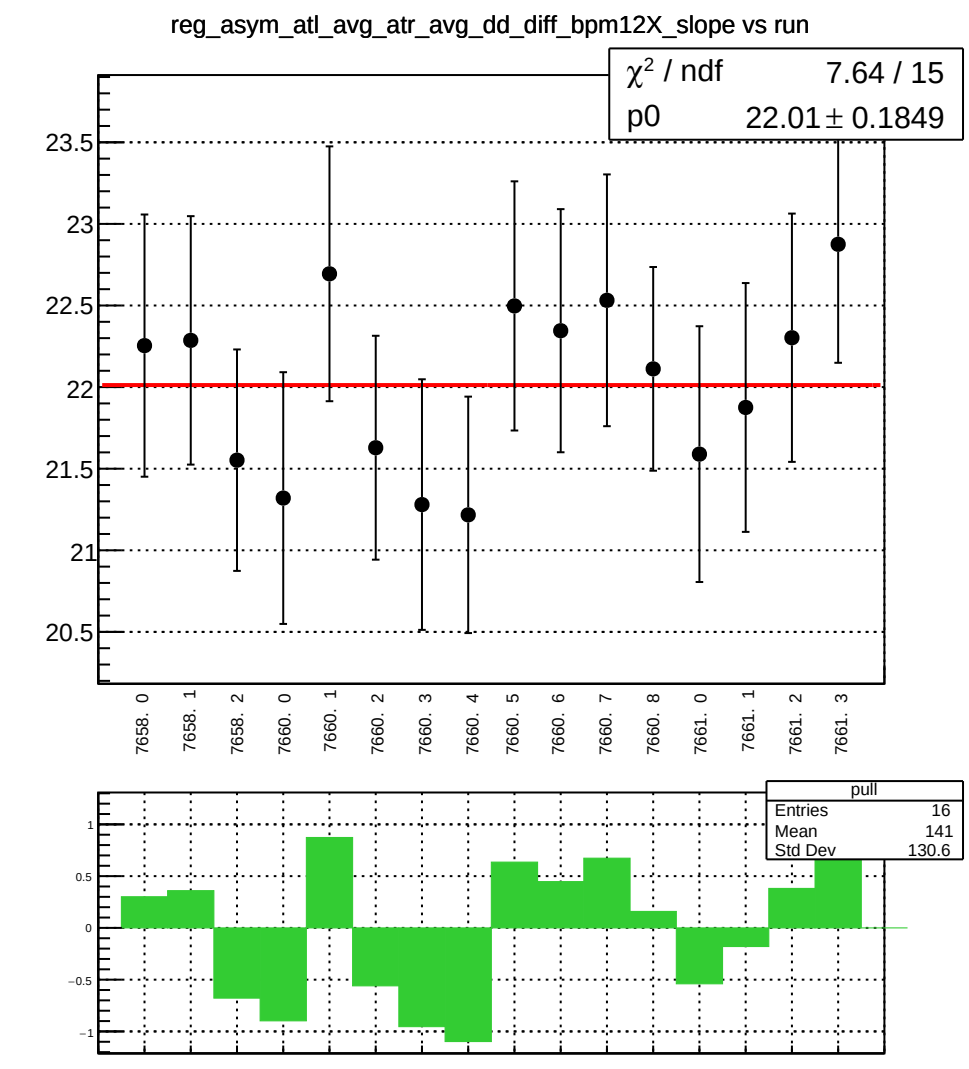

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 7.138 / 15
p0 64.04 ± 1.393
75
70
65
60
55
50
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 106.4
Std Dev 96.14
1
0.5
0
−0.5
−1
pull1D
Entries 16
Mean 0.008126
Std Dev 0.6679
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

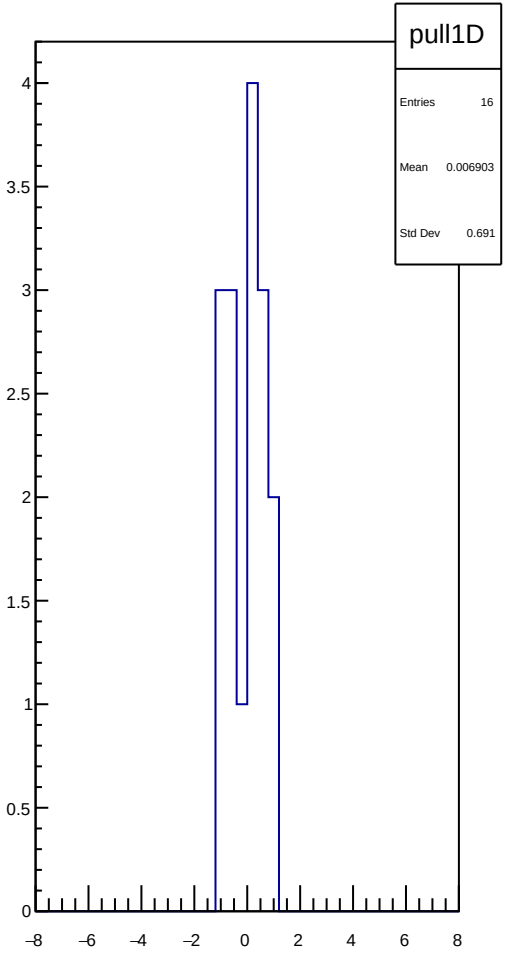

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.331 / 15
p0 −11.51± 2.242
10
0
−10
−20
−30
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −44.91
Std Dev 56.28
1
0.5
0
−0.5
−1
−1.5

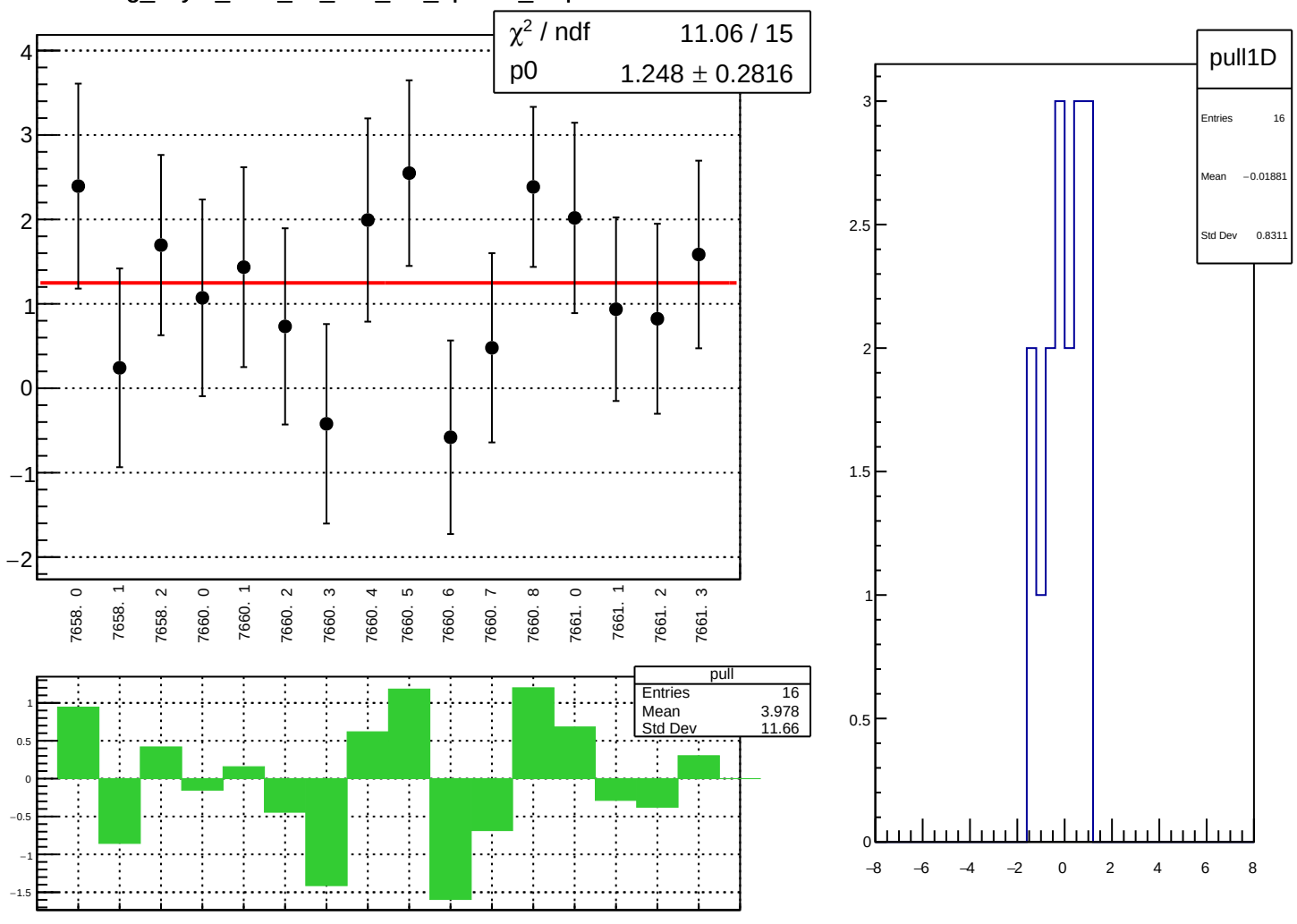

pull1D
Entries 16
Mean −0.007591
Std Dev 0.6768
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

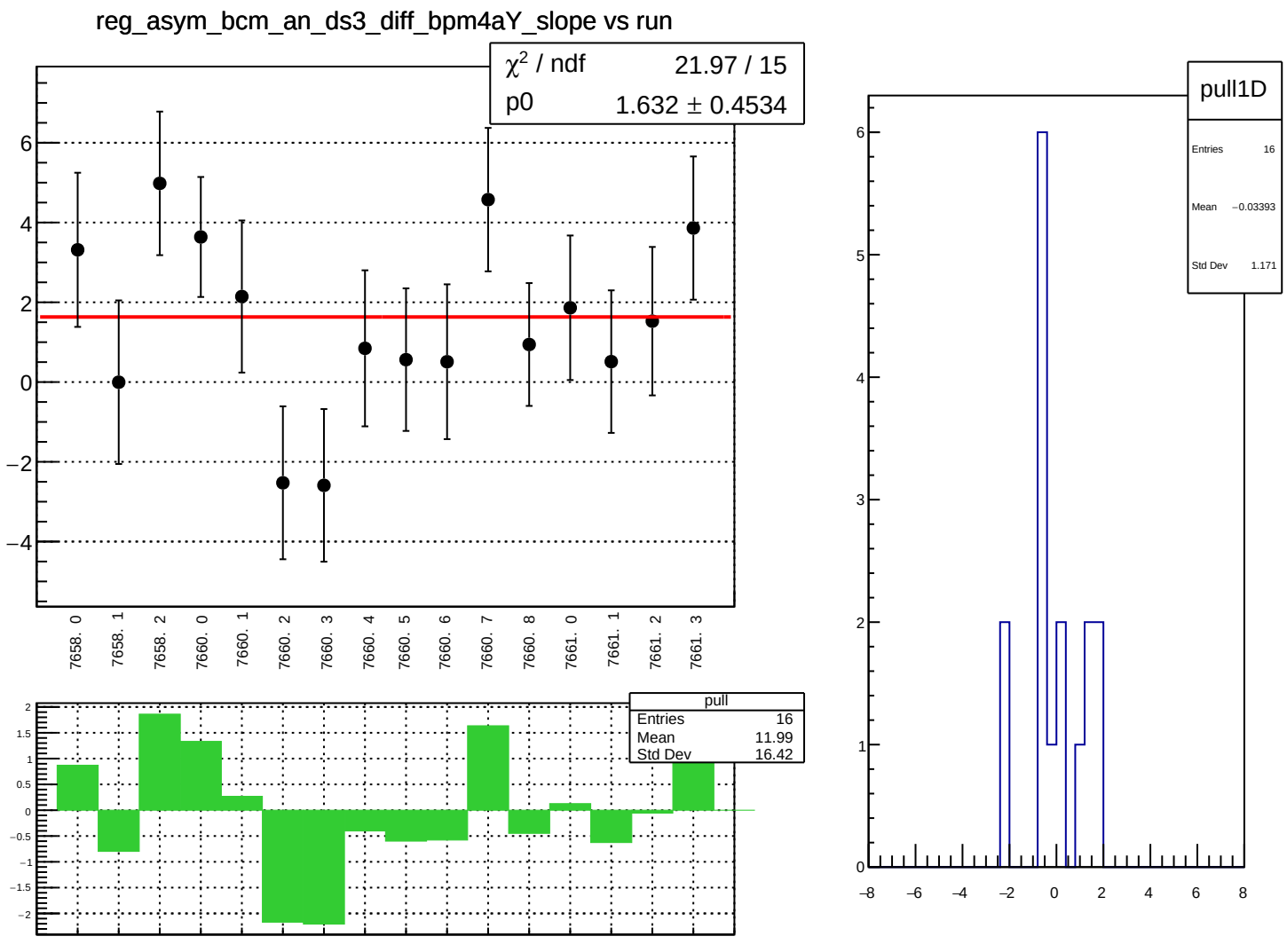

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.213 / 15
p0 −81.92 ± 1.144
−72
−74
−76
−78
−80
−82
−84
−86
−88
−90
−92
−94
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 97.68
Std Dev 87.2
1
0.5
0
−0.5
−1
pull1D
Entries 16
Mean −0.008922
Std Dev 0.6713
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

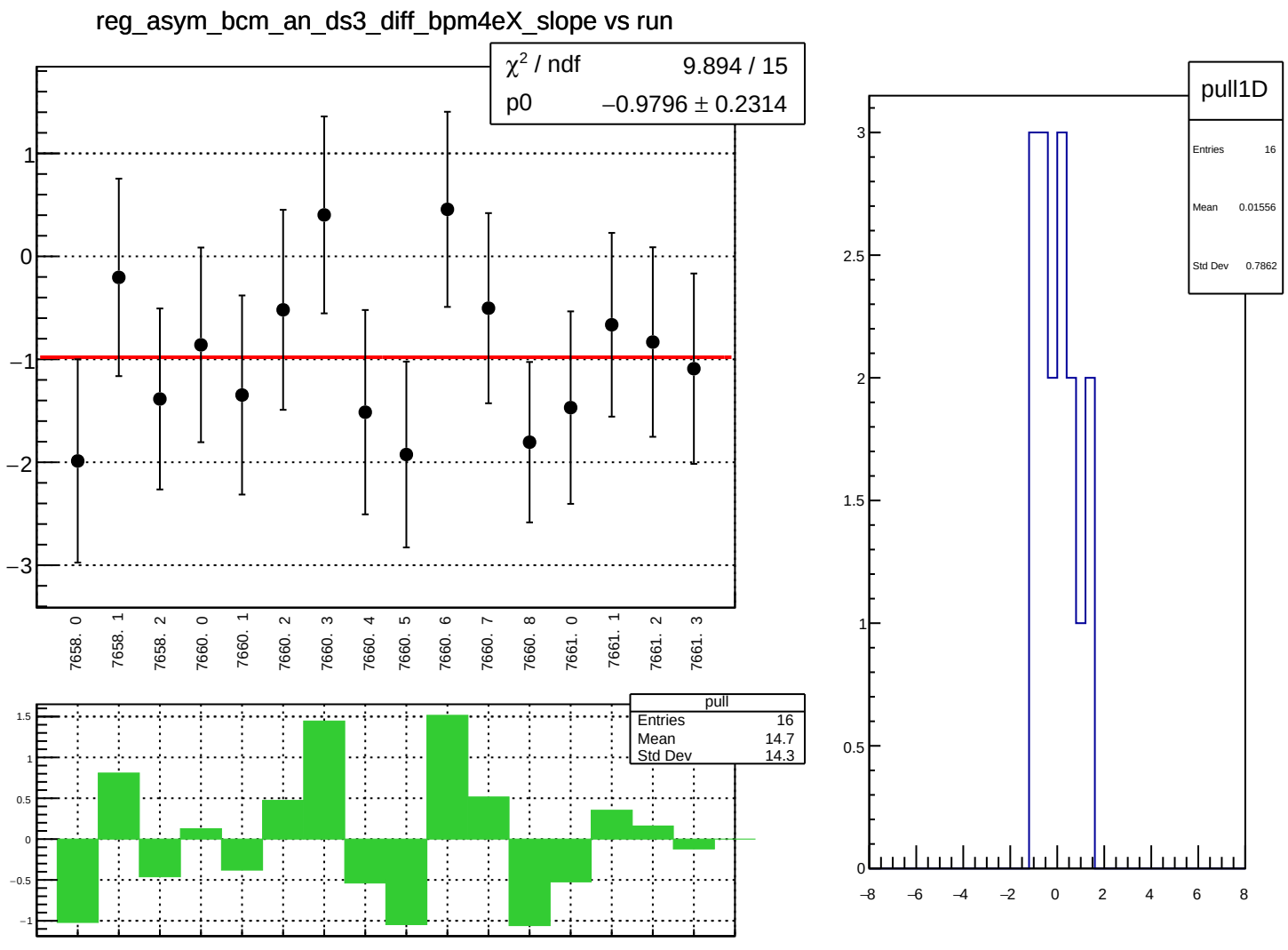

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.988 / 15
p0 7.2 ± 3.269
40
30
20
10
0
−10
−20
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean −50.95
Std Dev 61.84
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 16
Mean 0.008219
Std Dev 0.6608
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

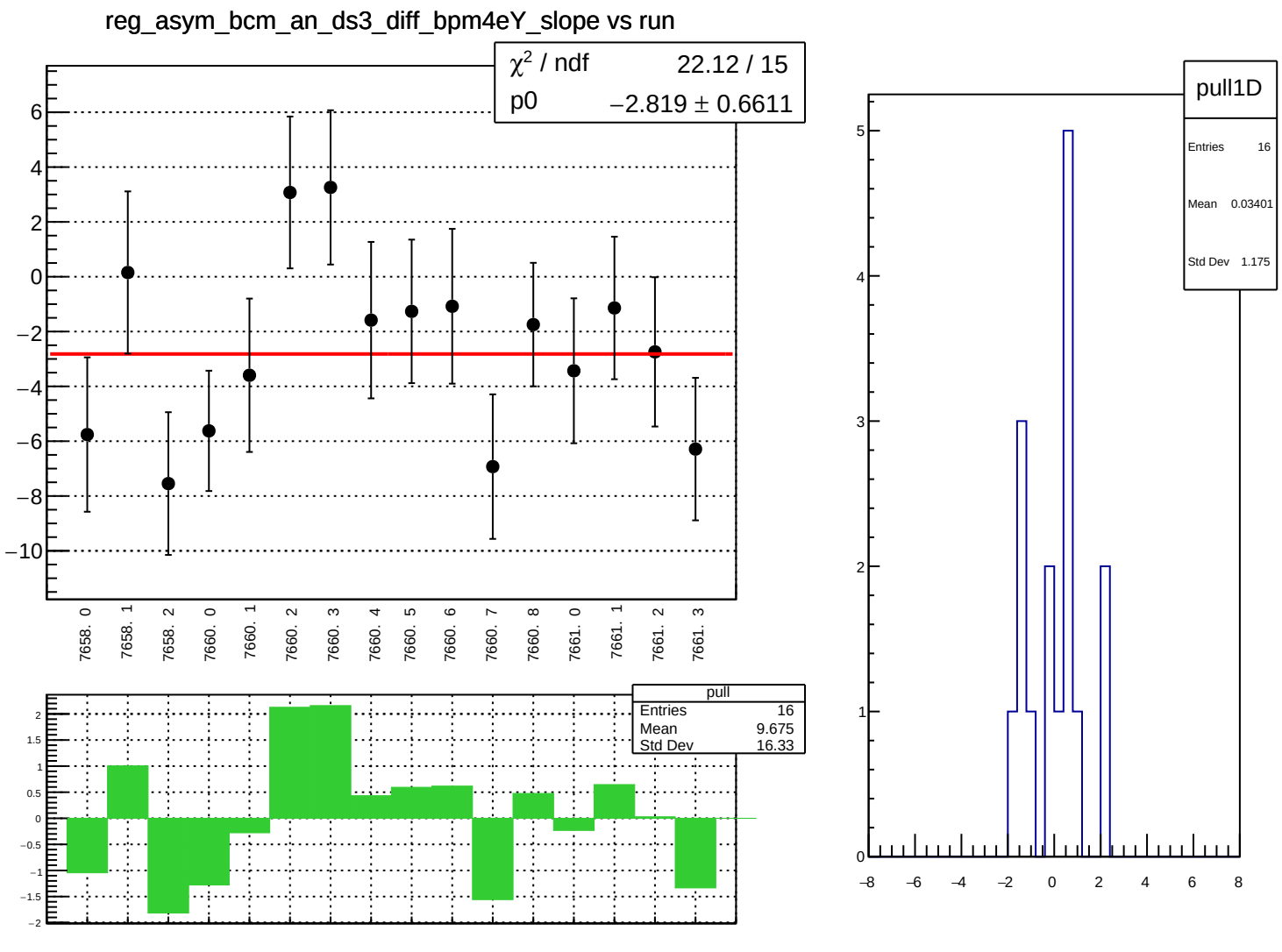

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 7.64 / 15
p0 22.01 ± 0.1849
23.5
23
22.5
22
21.5
21
20.5
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 141
Std Dev 130.6
1
0.5
0
−0.5
−1

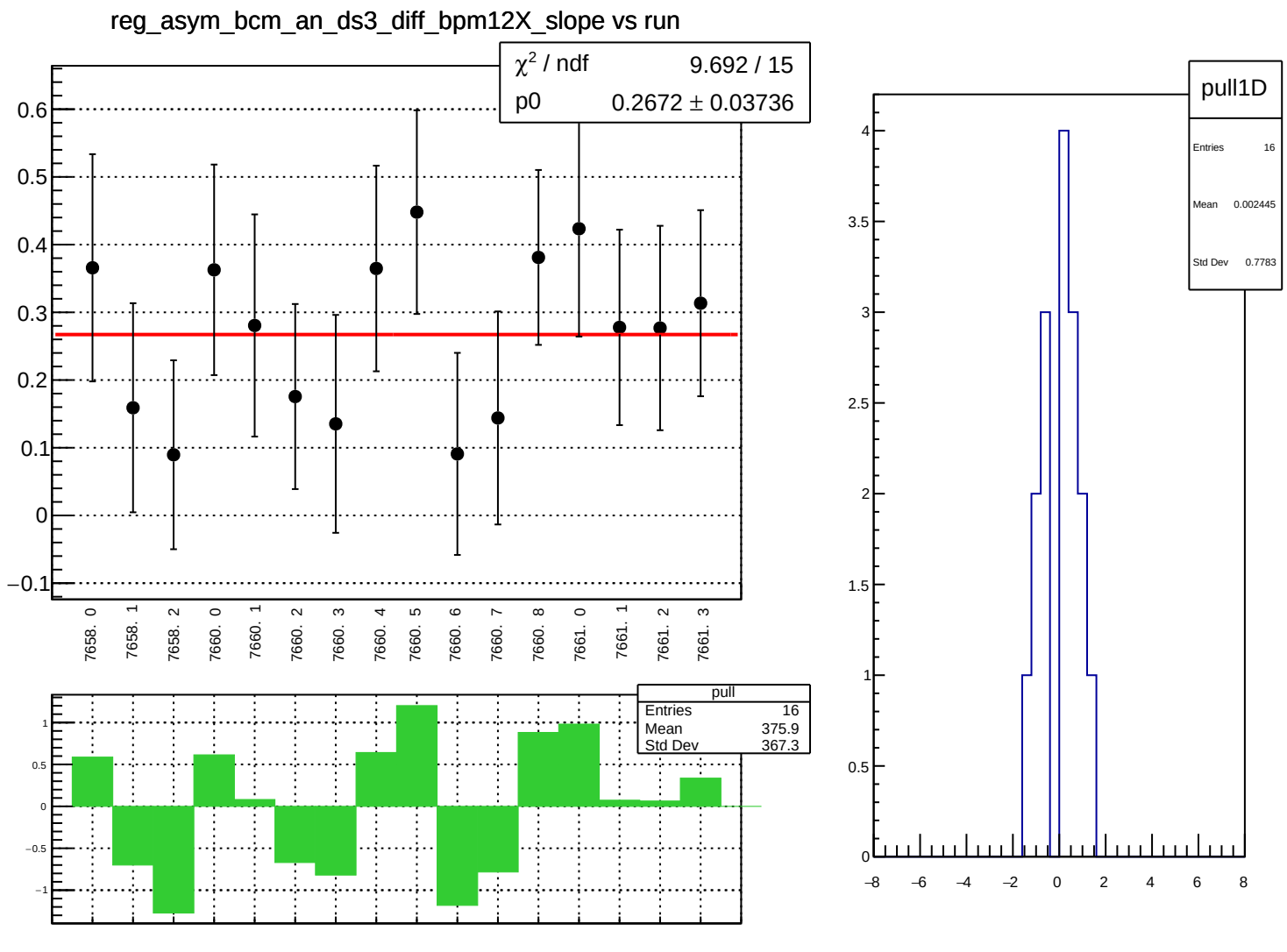

pull1D
Entries 16
Mean 0.006903
Std Dev 0.691
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 11.06 / 15
p0 1.248 ± 0.2816
4
3
2
1
0
−1
−2
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 3.978
Std Dev 11.66
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 16
Mean −0.01881
Std Dev 0.8311
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

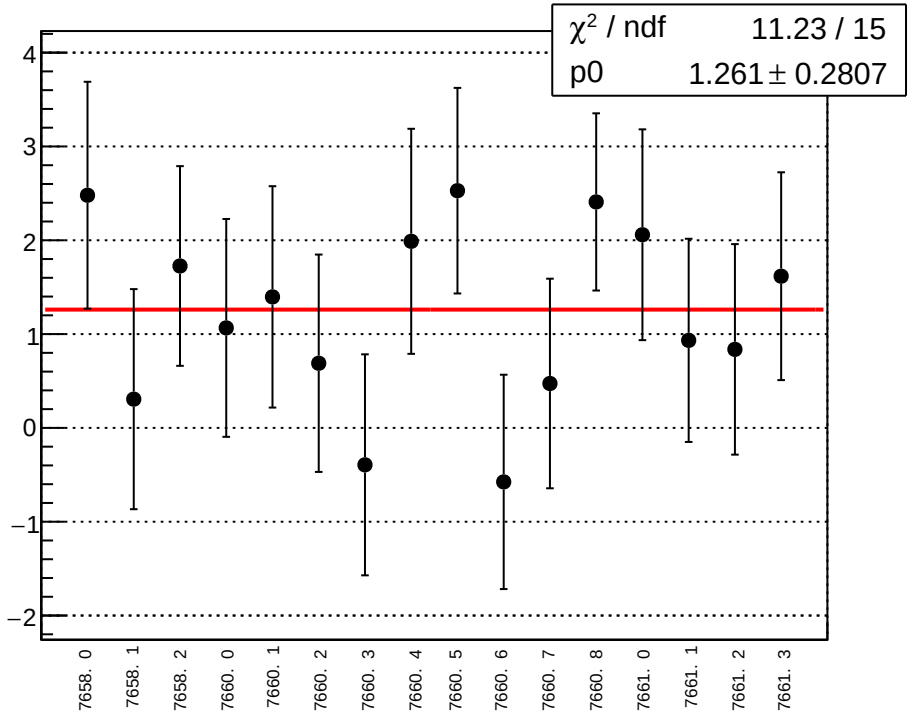

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 21.97 / 15
p0 1.632 ± 0.4534
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 11.99
Std Dev 16.42
pull1D
Entries 16
Mean −0.03393
Std Dev 1.171

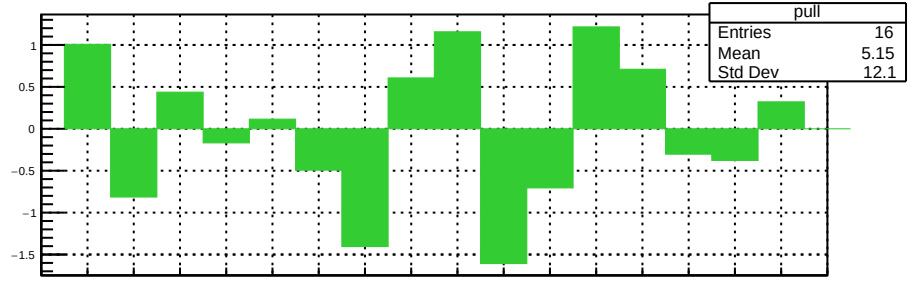

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 9.894 / 15
p0 −0.9796 ± 0.2314
1
0
−1
−2
−3
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 14.7
Std Dev 14.3
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 16
Mean 0.01556
Std Dev 0.7862
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

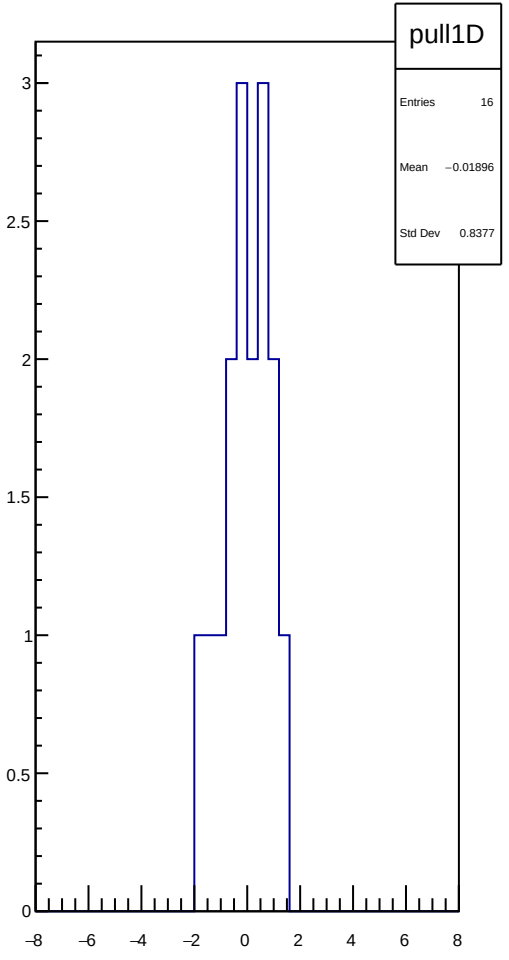

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 22.12 / 15
p0 −2.819 ± 0.6611
6
4
2
0
−2
−4
−6
−8
−10
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 9.675
Std Dev 16.33
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 16
Mean 0.03401
Std Dev 1.175
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

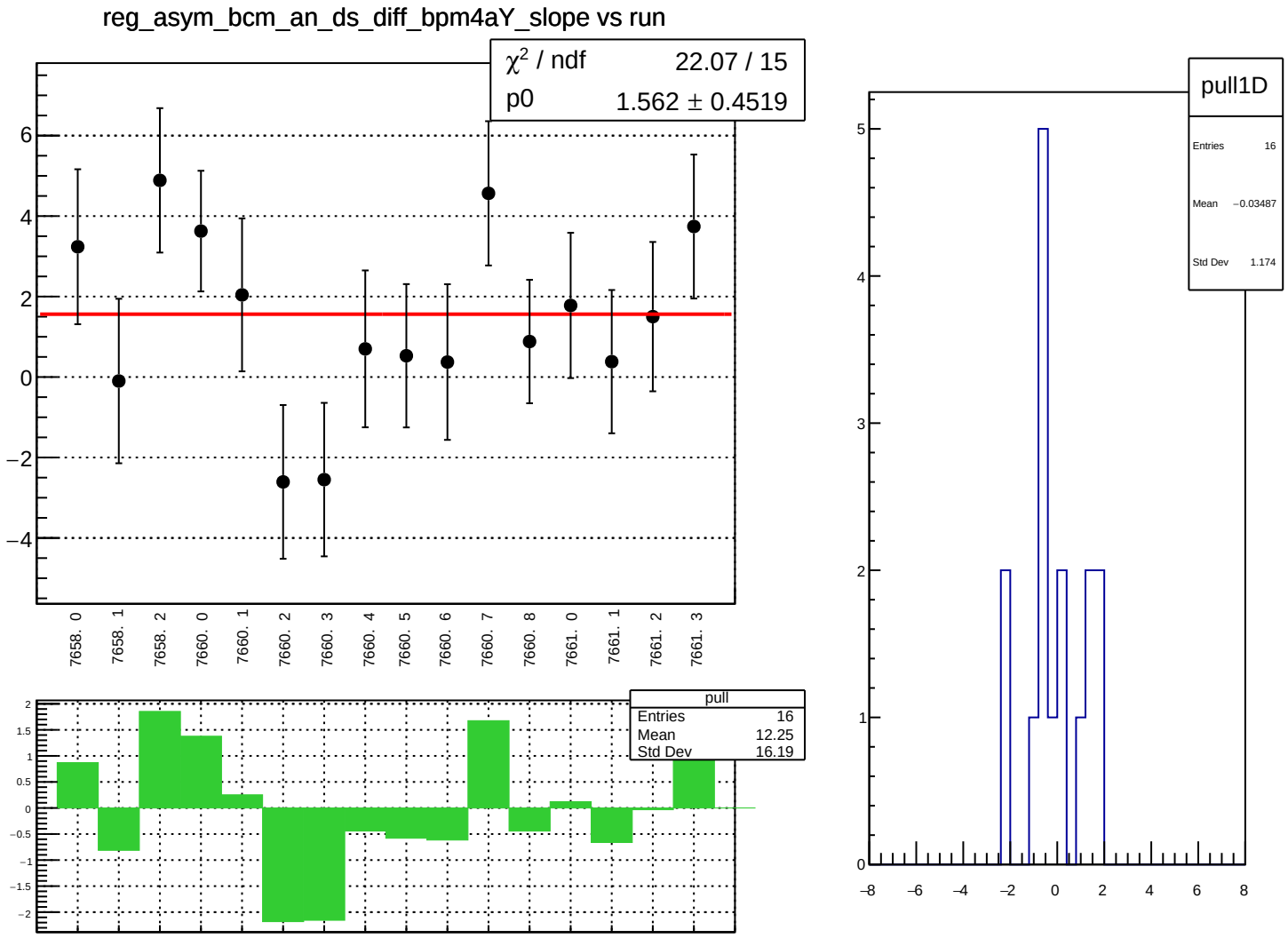

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 9.692 / 15
p0 0.2672 ± 0.03736
0.6
0.5
0.4
0.3
0.2
0.1
0
−0.1
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 375.9
Std Dev 367.3
1
0.5
0
−0.5
−1
pull1D
Entries 16
Mean 0.002445
Std Dev 0.7783
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

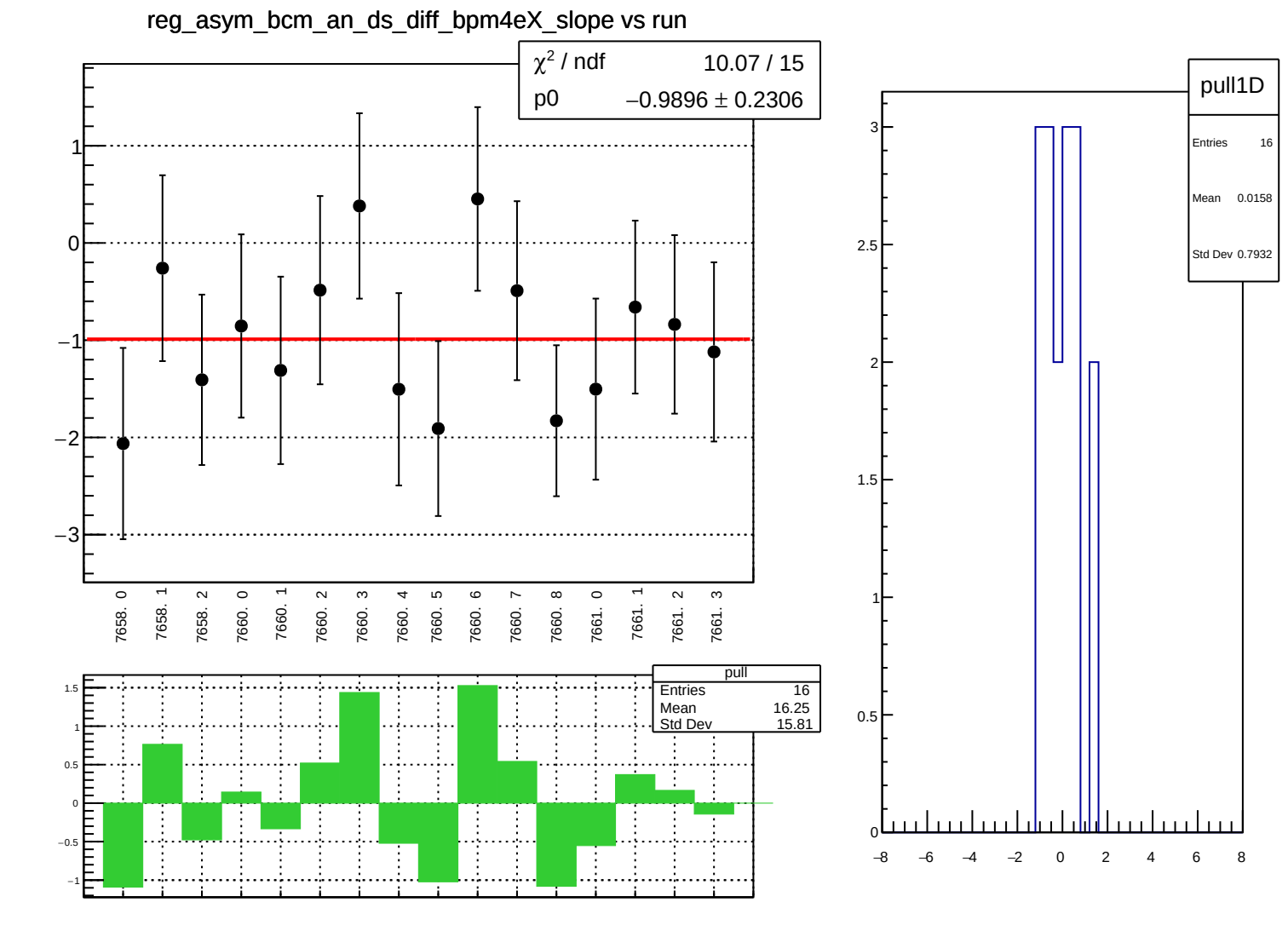
reg_asym_bcm_an_ds_diff_bpm1X_slope vs run

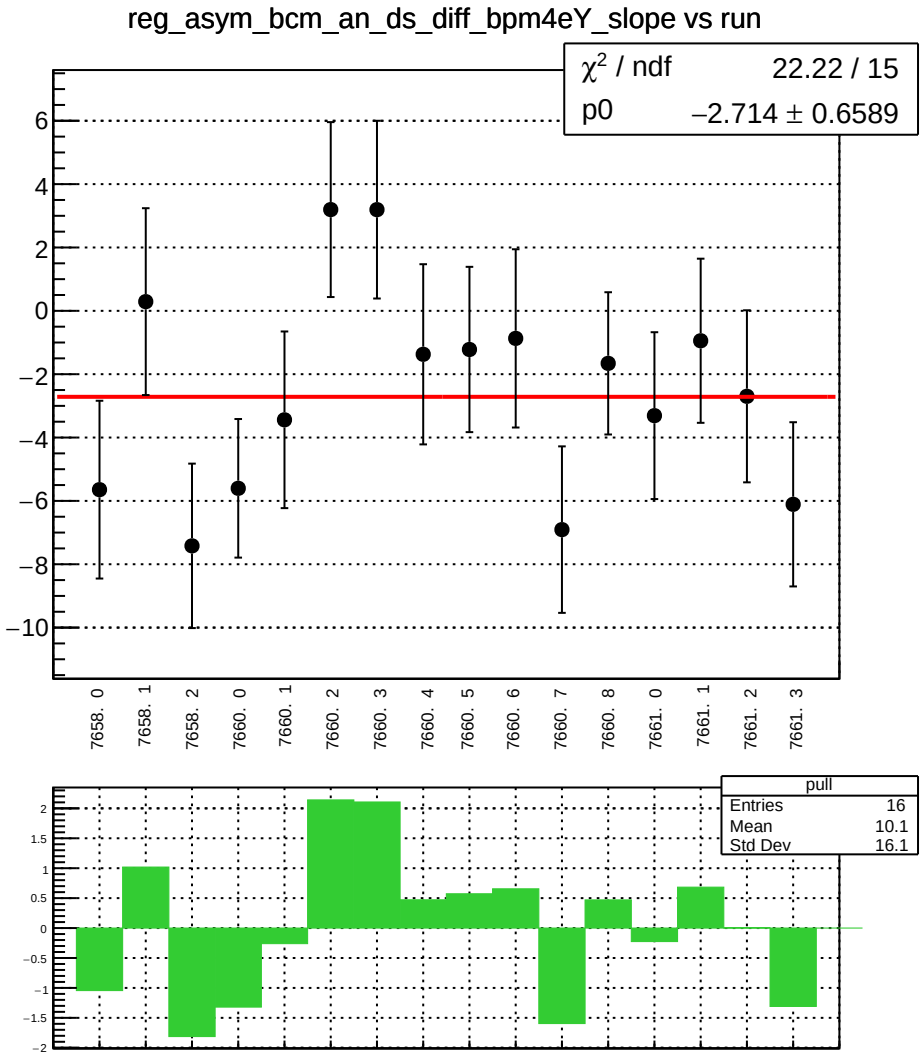


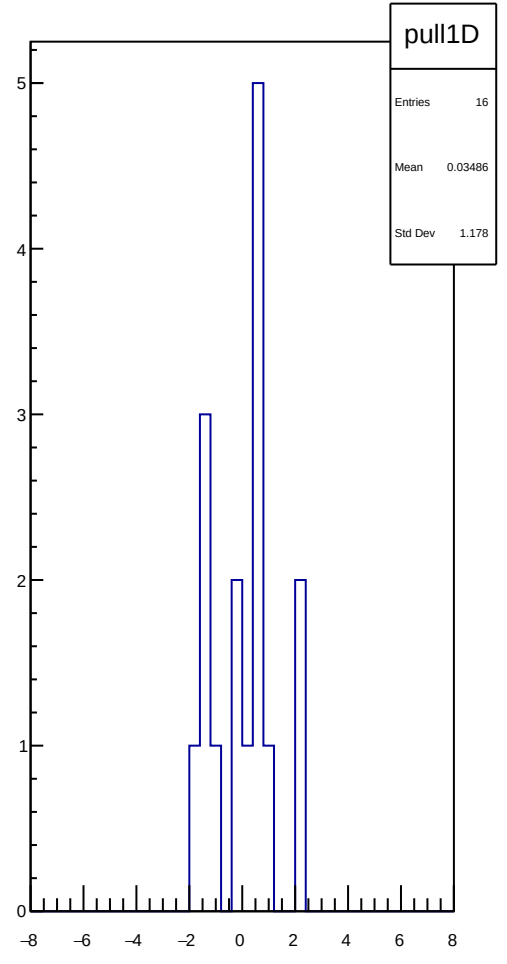


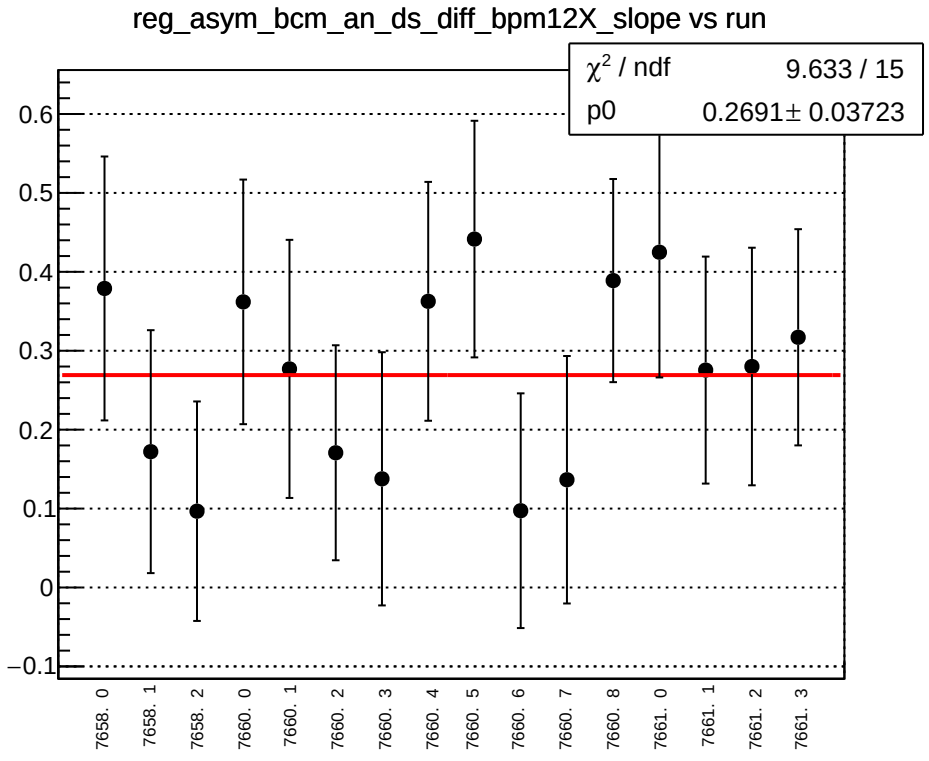


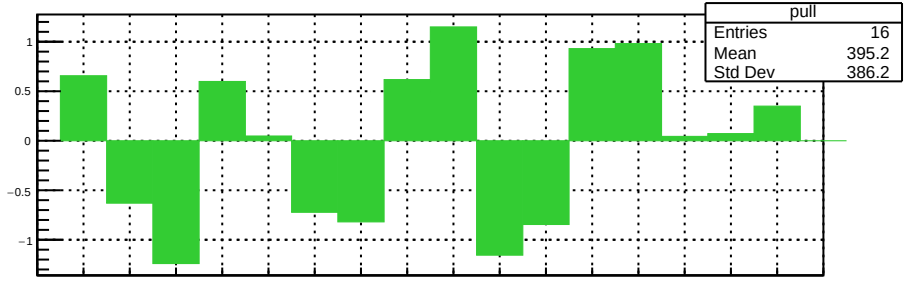

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 22.07 / 15
p0 1.562 ± 0.4519
6
4
2
0
−2
−4
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 12.25
Std Dev 16.19
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 16
Mean −0.03487
Std Dev 1.174
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

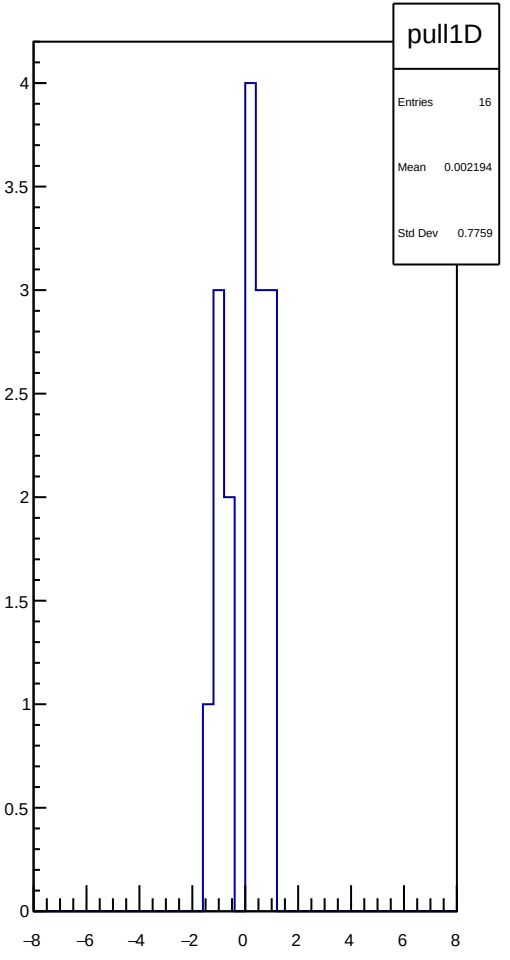

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 10.07 / 15
p0 −0.9896 ± 0.2306
1
0
−1
−2
−3
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 16.25
Std Dev 15.81
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 16
Mean 0.0158
Std Dev 0.7932
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

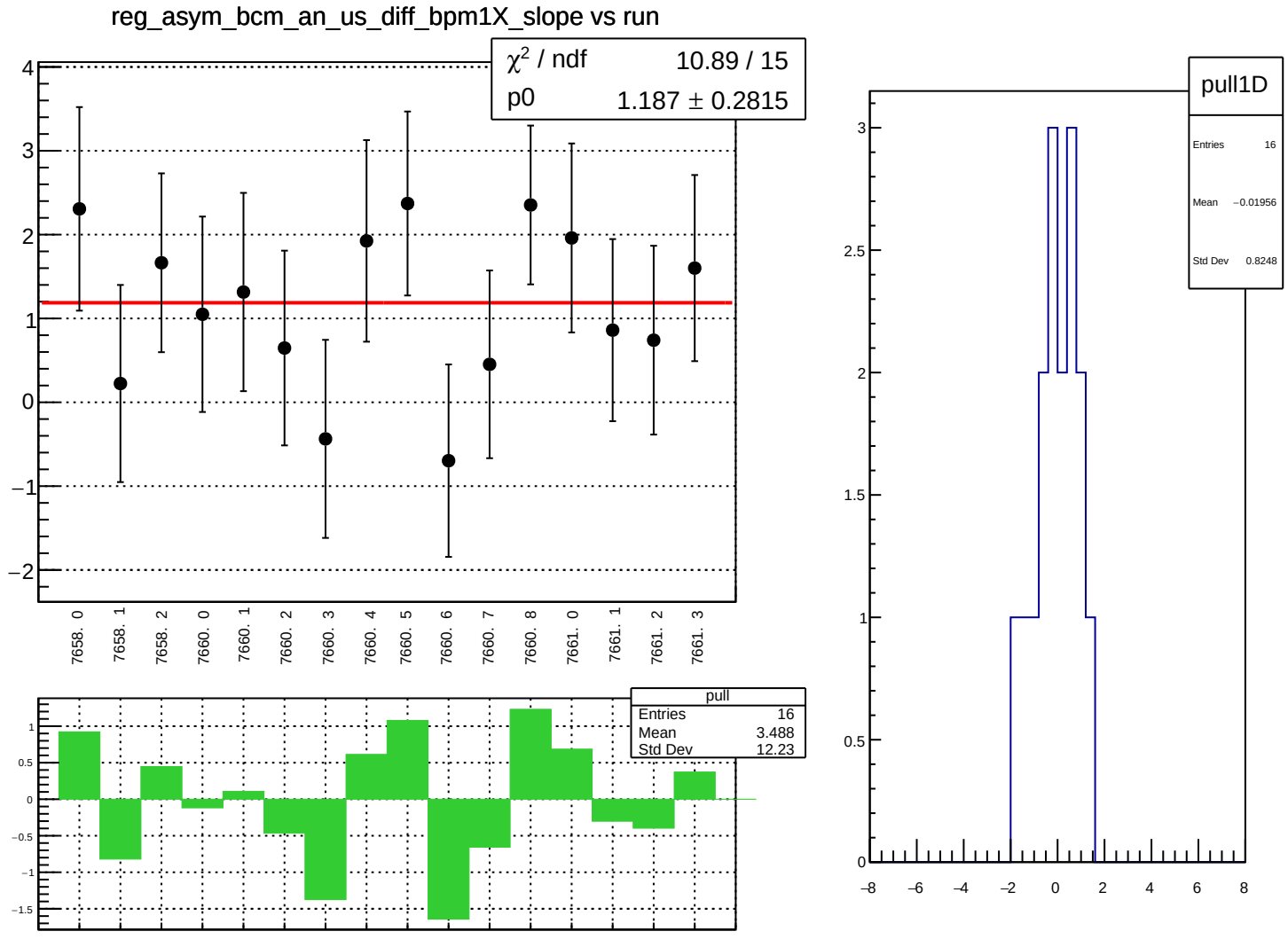

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 22.22 / 15
p0 −2.714 ± 0.6589
6
4
2
0
−2
−4
−6
−8
−10
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 10.1
Std Dev 16.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

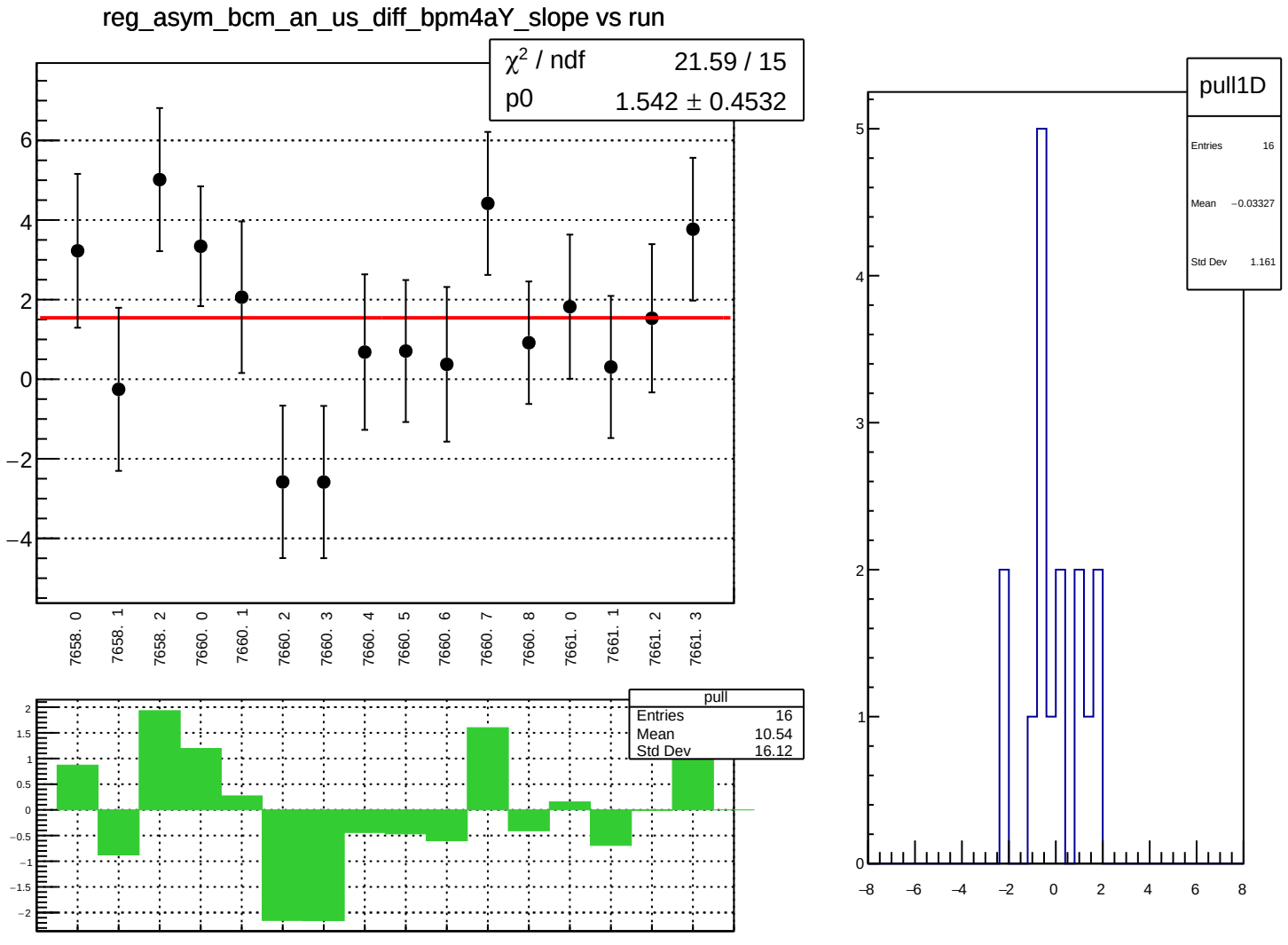

pull1D
Entries 16
Mean 0.03486
Std Dev 1.178
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

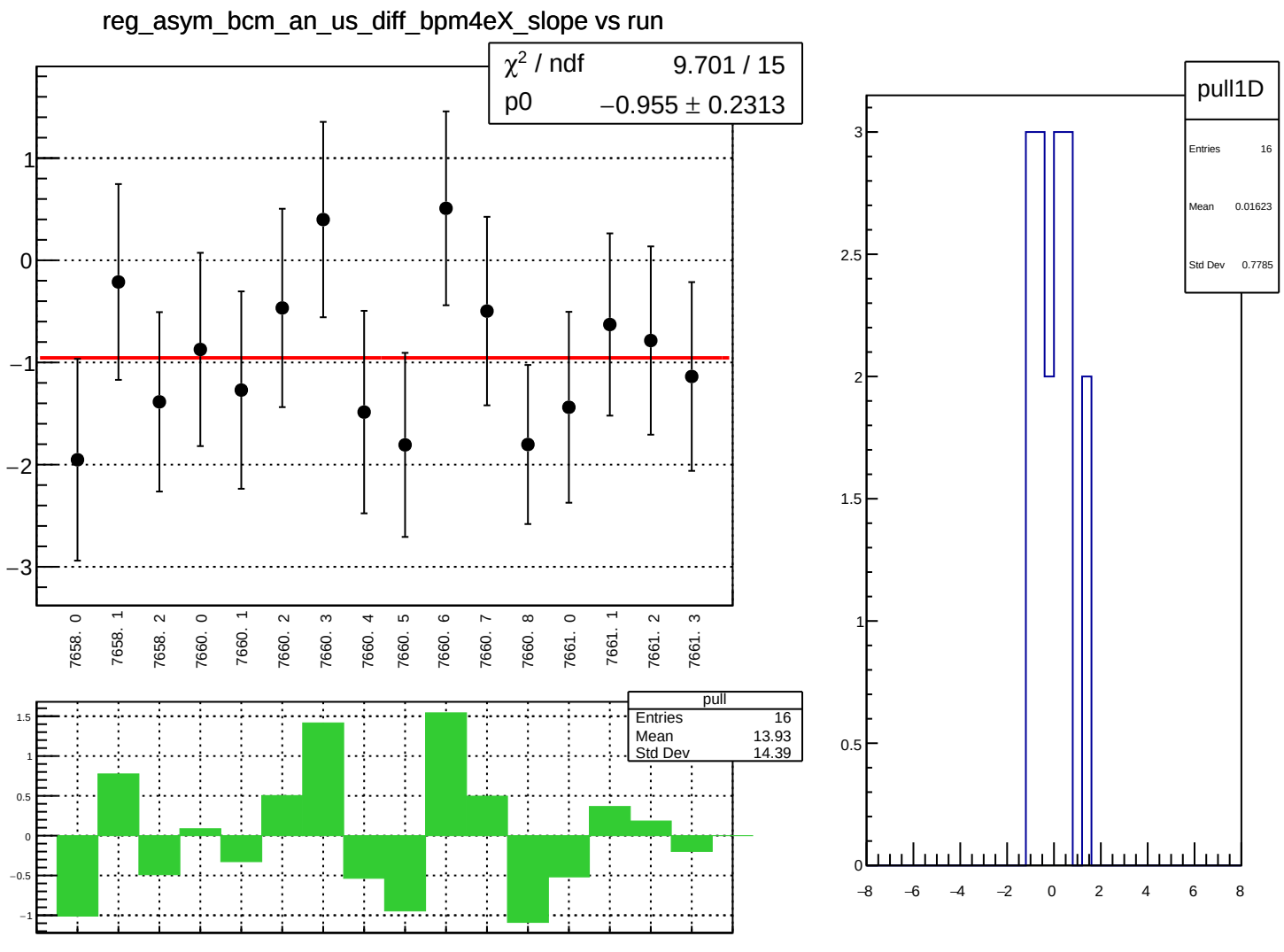

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 9.633 / 15
p0 0.2691± 0.03723
0.6
0.5
0.4
0.3
0.2
0.1
0
−0.1
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3

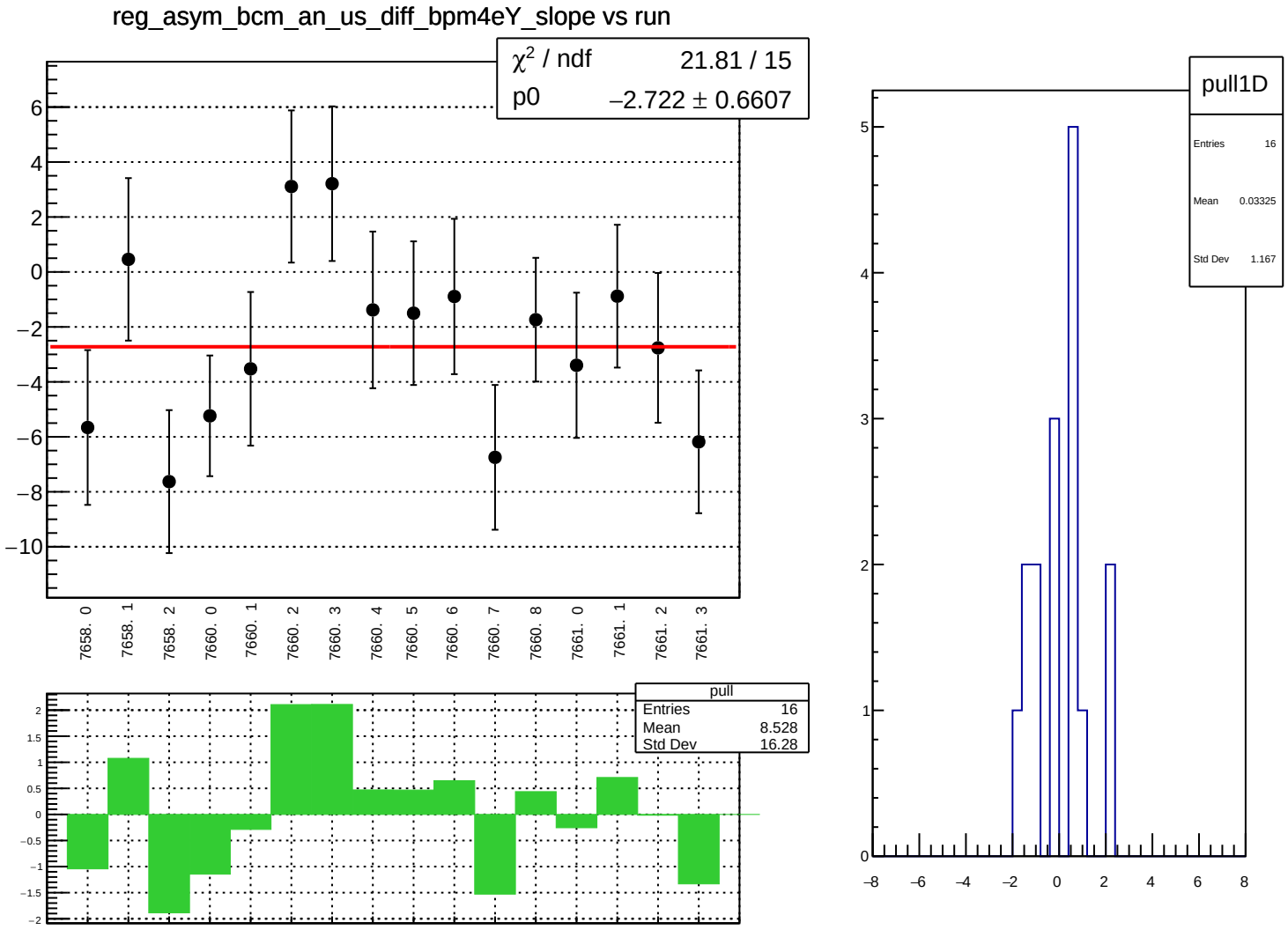

pull
Entries 16
Mean 395.2
Std Dev 386.2
1
0.5
0
−0.5
−1

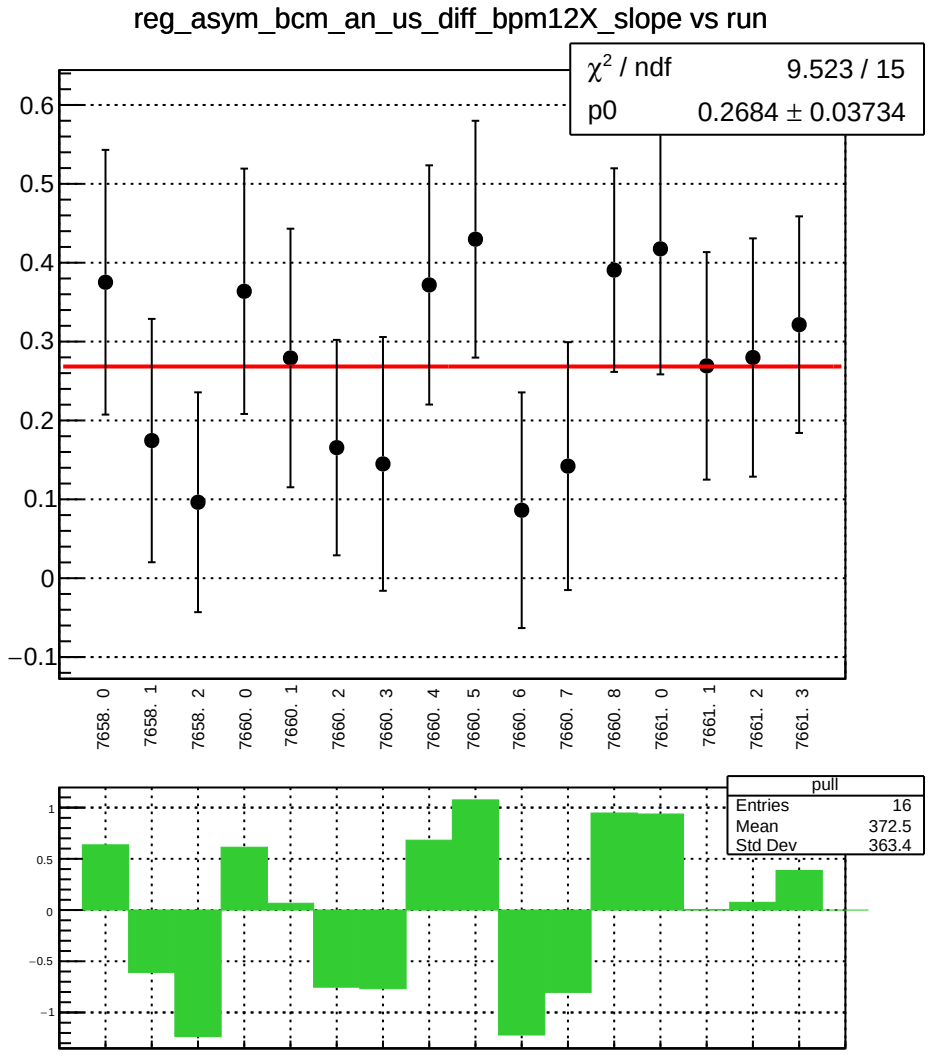

pull1D
Entries 16
Mean 0.002194
Std Dev 0.7759
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

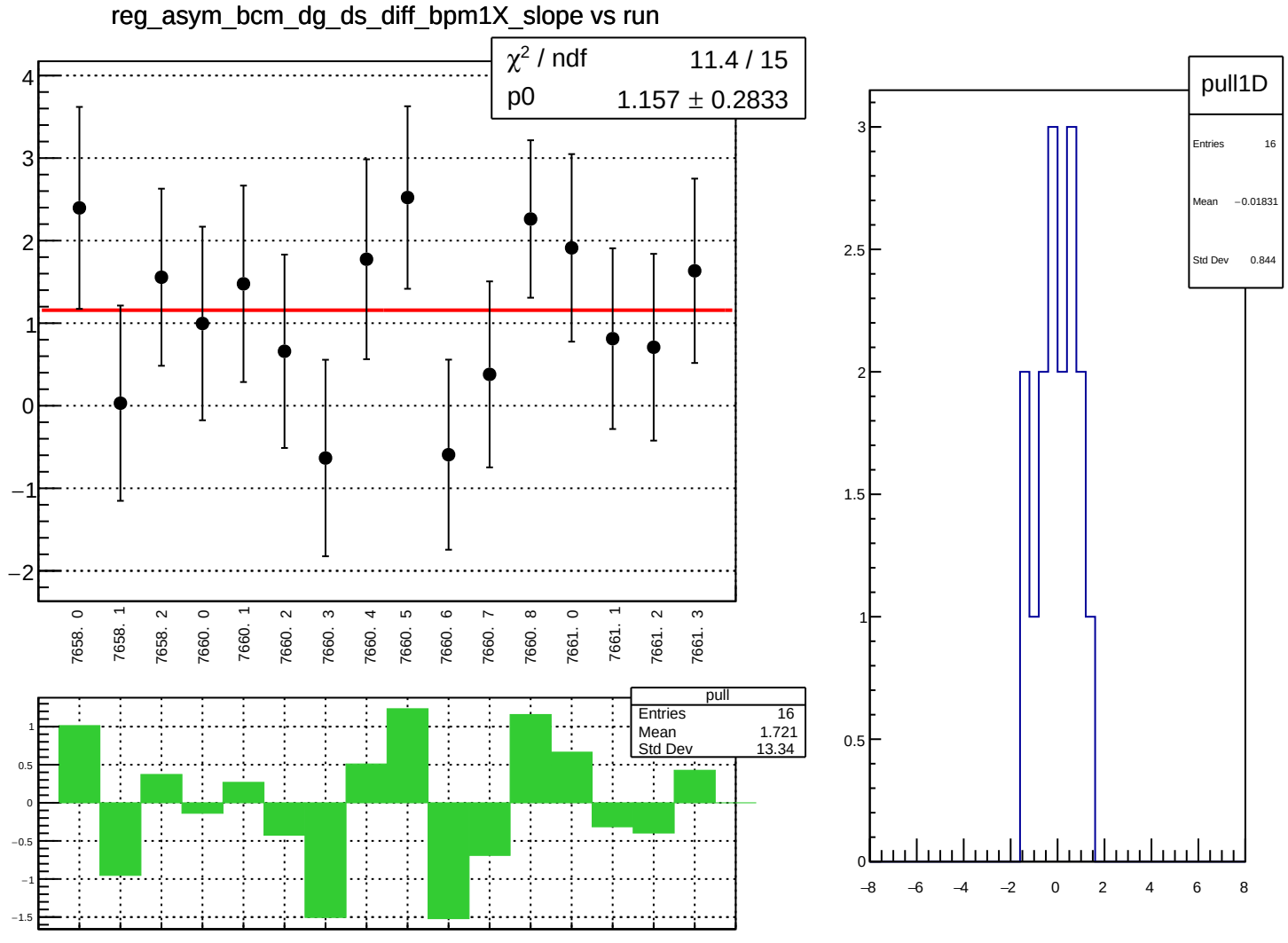

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 10.89 / 15
p0 1.187 ± 0.2815
4
3
2
1
0
−1
−2
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 3.488
Std Dev 12.23
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 16
Mean −0.01956
Std Dev 0.8248
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

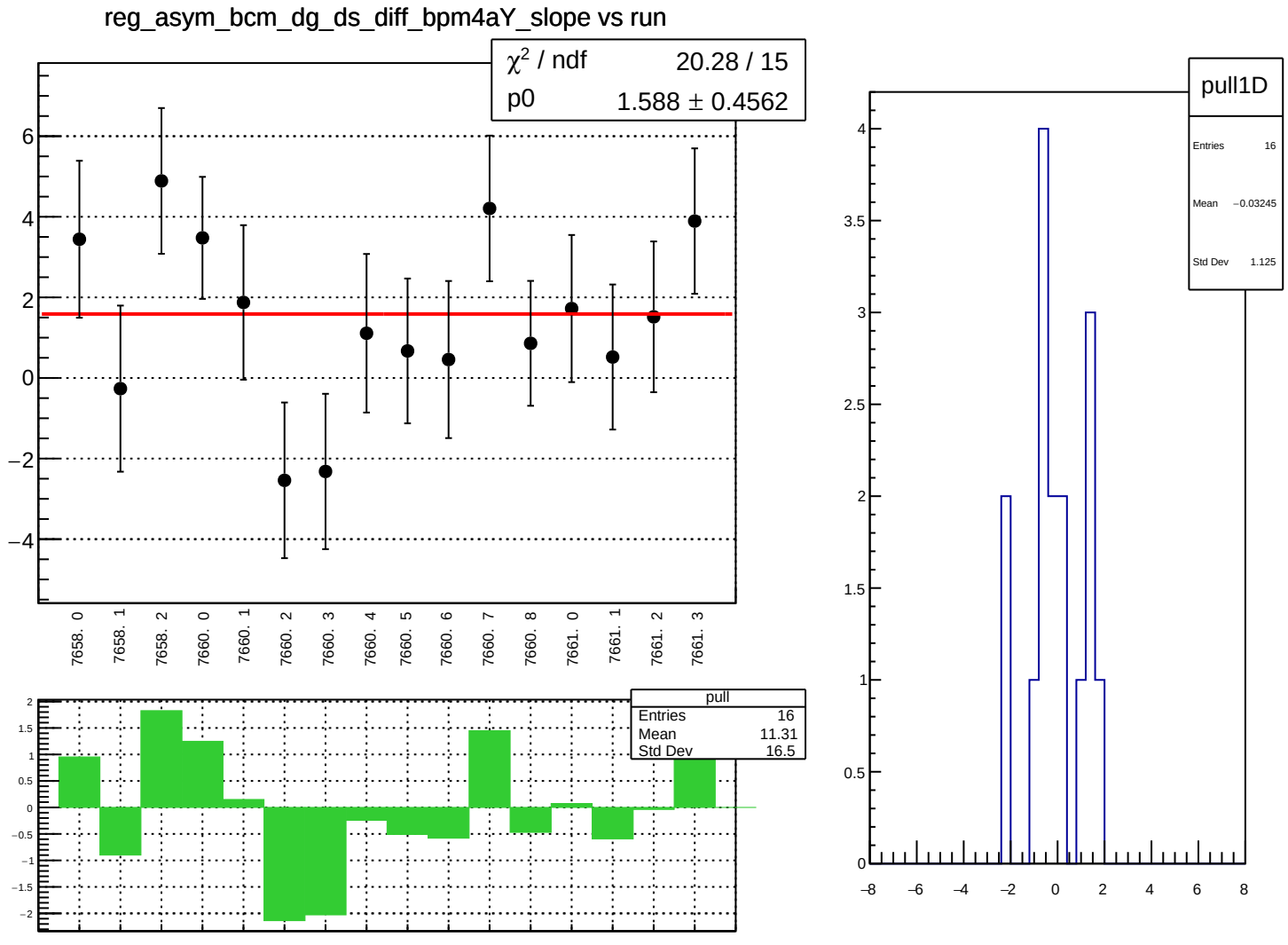

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 21.59 / 15
p0 1.542 ± 0.4532
6
4
2
0
−2
−4
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 10.54
Std Dev 16.12
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 16
Mean −0.03327
Std Dev 1.161
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

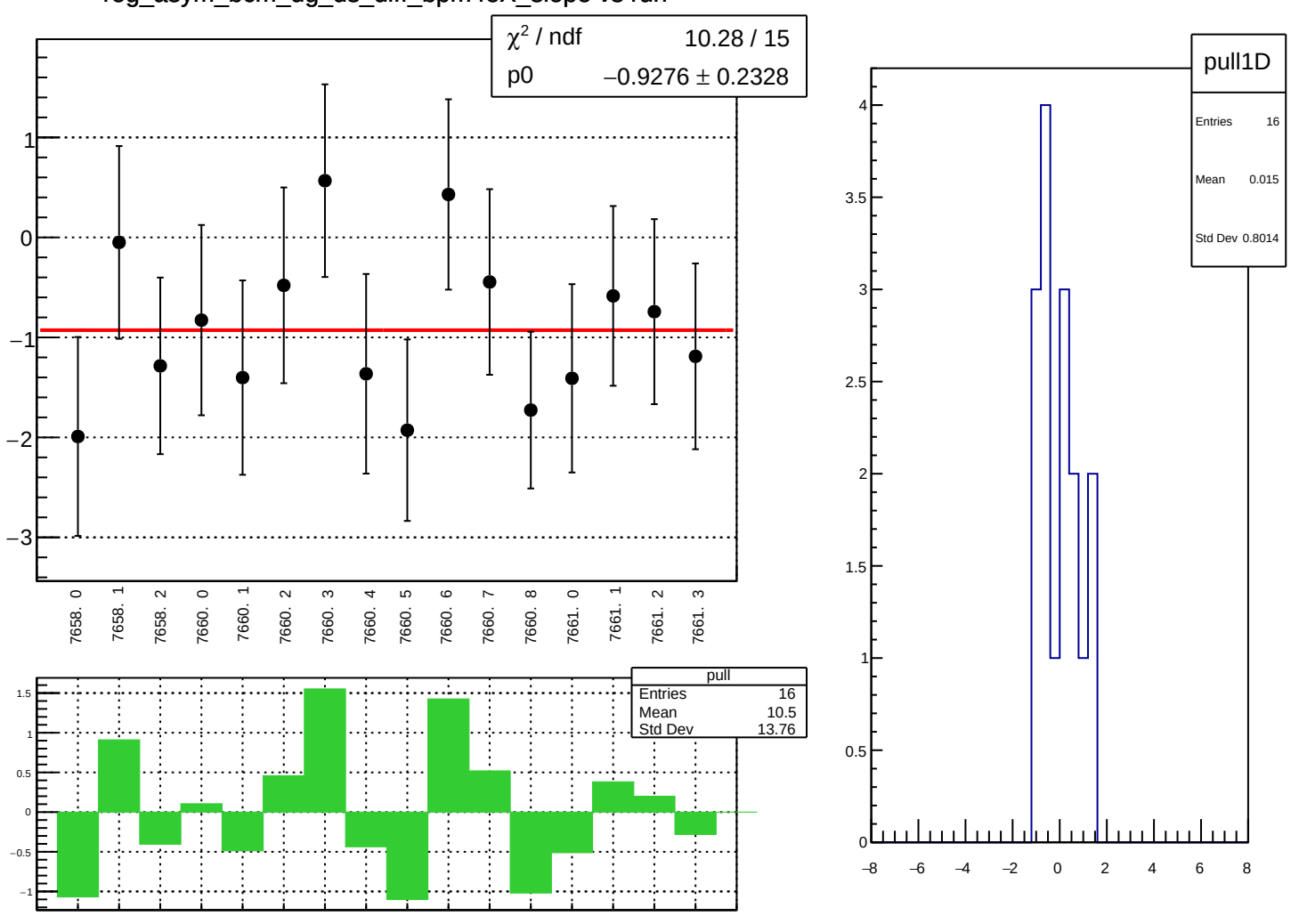

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 9.701 / 15
p0 −0.955 ± 0.2313
1
0
−1
−2
−3
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 13.93
Std Dev 14.39
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 16
Mean 0.01623
Std Dev 0.7785
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

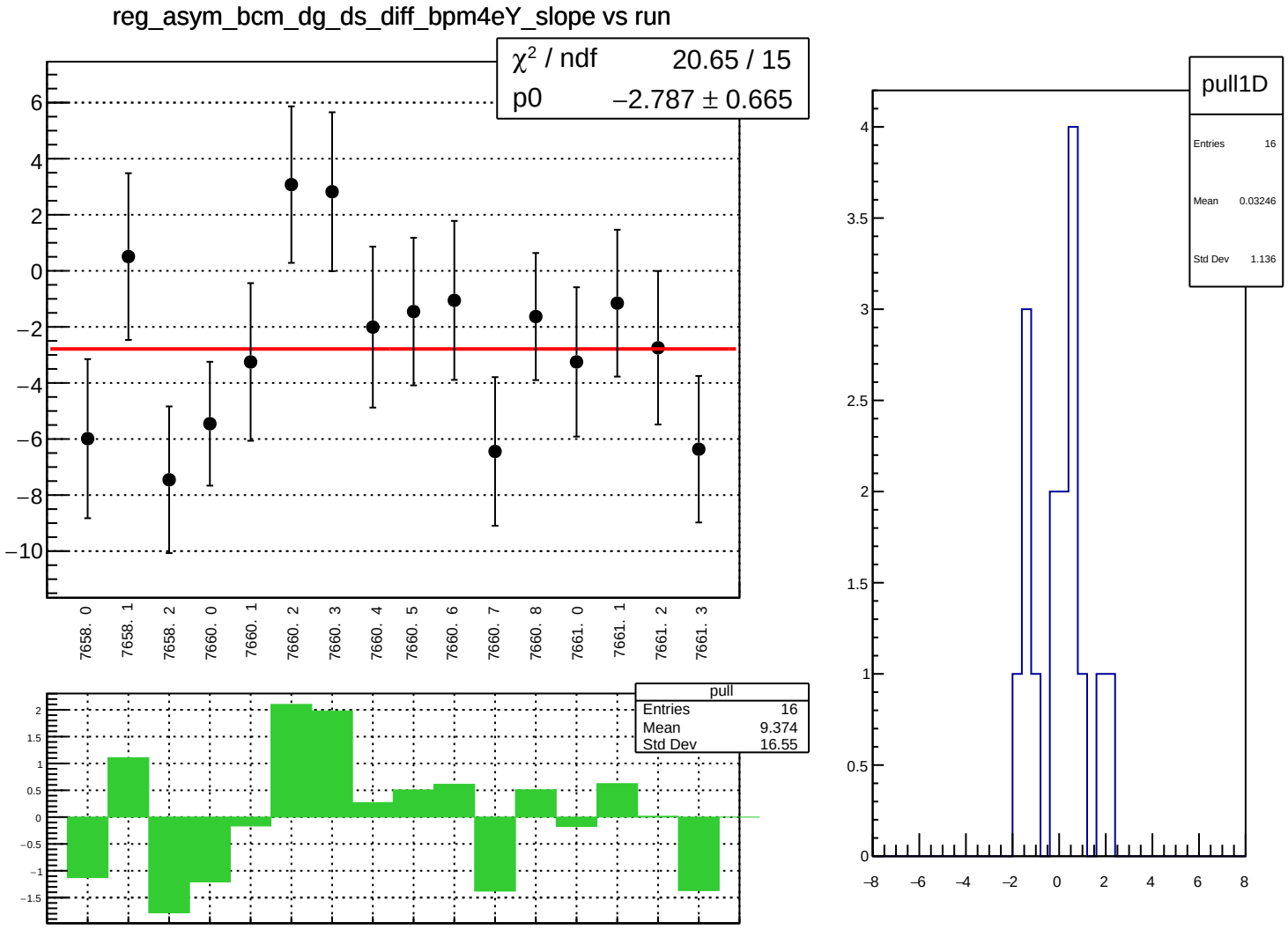

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 21.81 / 15
p0 −2.722 ± 0.6607
6
4
2
0
−2
−4
−6
−8
−10
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 8.528
Std Dev 16.28
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 16
Mean 0.03325
Std Dev 1.167
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

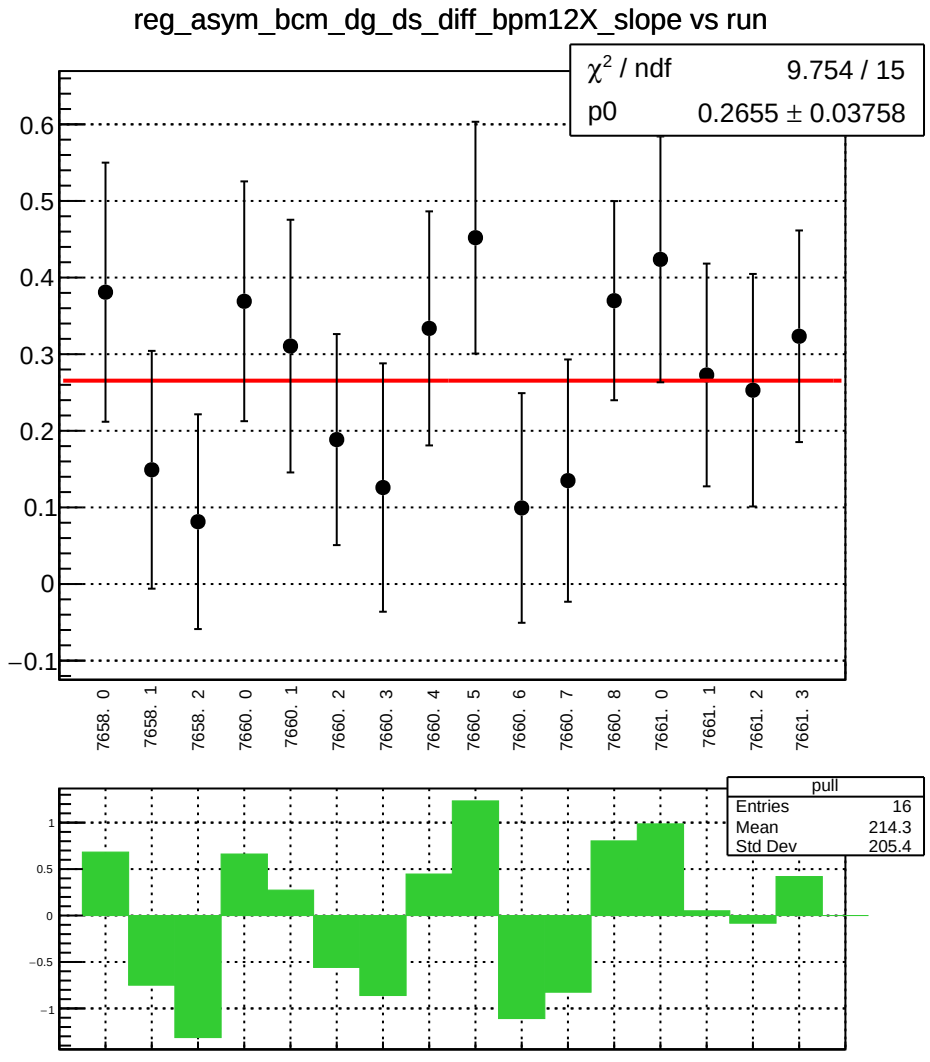

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 9.523 / 15
p0 0.2684 ± 0.03734
0.6
0.5
0.4
0.3
0.2
0.1
0
−0.1
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 372.5
Std Dev 363.4
1
0.5
0
−0.5
−1
pull1D
Entries 16
Mean 0.002286
Std Dev 0.7715
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

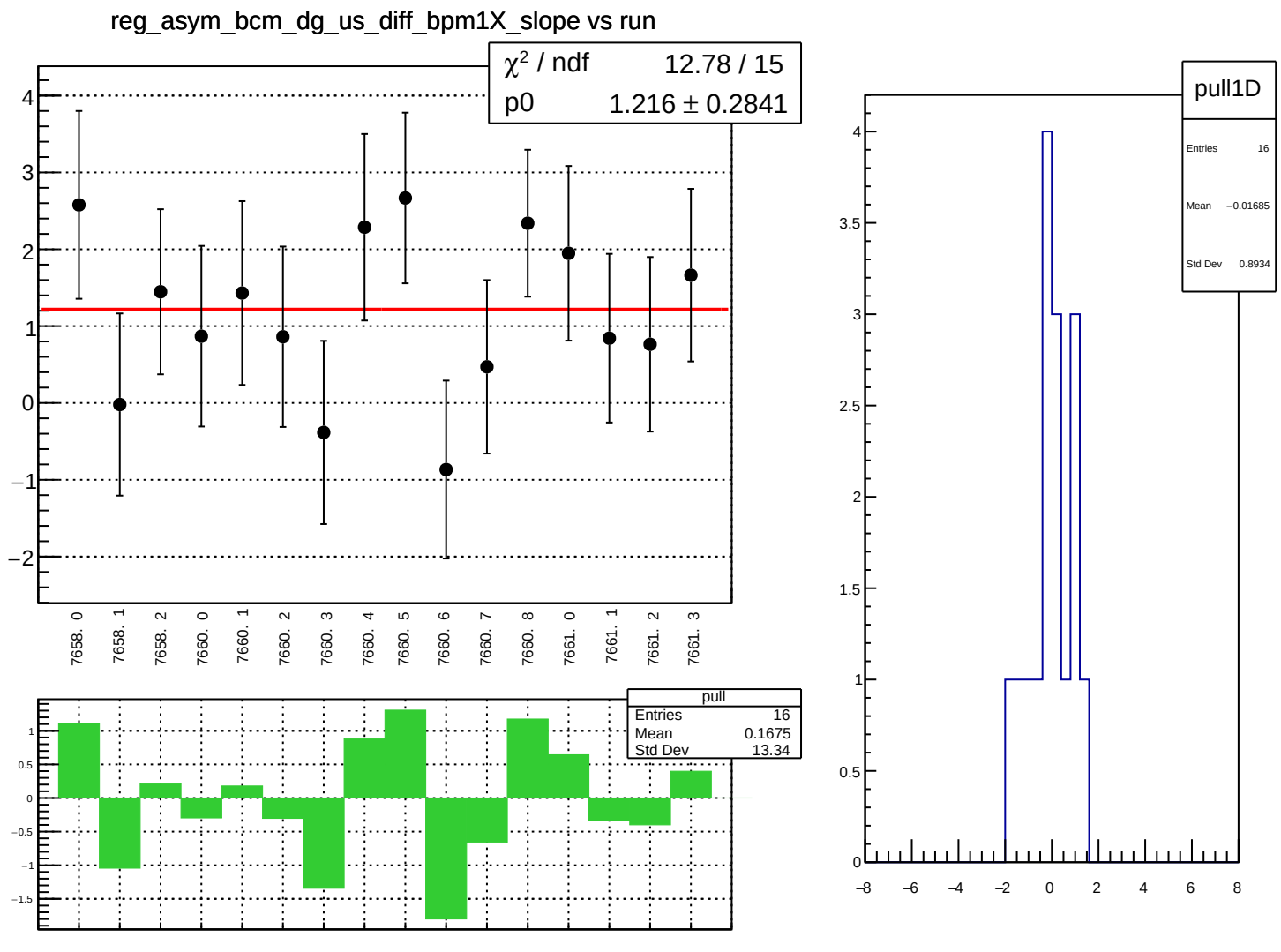

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 11.4 / 15
p0 1.157 ± 0.2833
4
3
2
1
0
−1
−2
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 1.721
Std Dev 13.34
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 16
Mean −0.01831
Std Dev 0.844
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

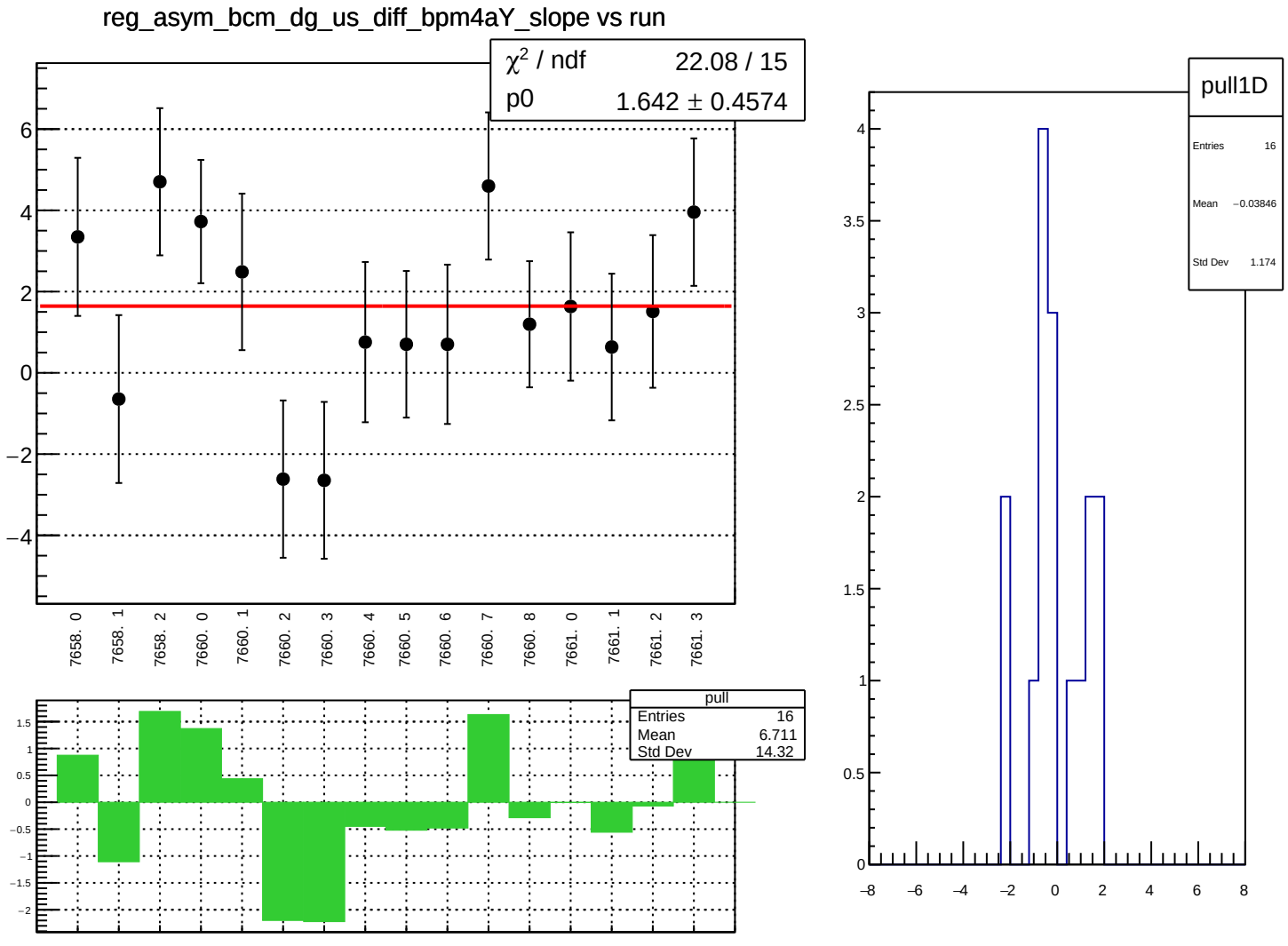

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 20.28 / 15
p0 1.588 ± 0.4562
6
4
2
0
−2
−4
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 11.31
Std Dev 16.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 16
Mean −0.03245
Std Dev 1.125
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

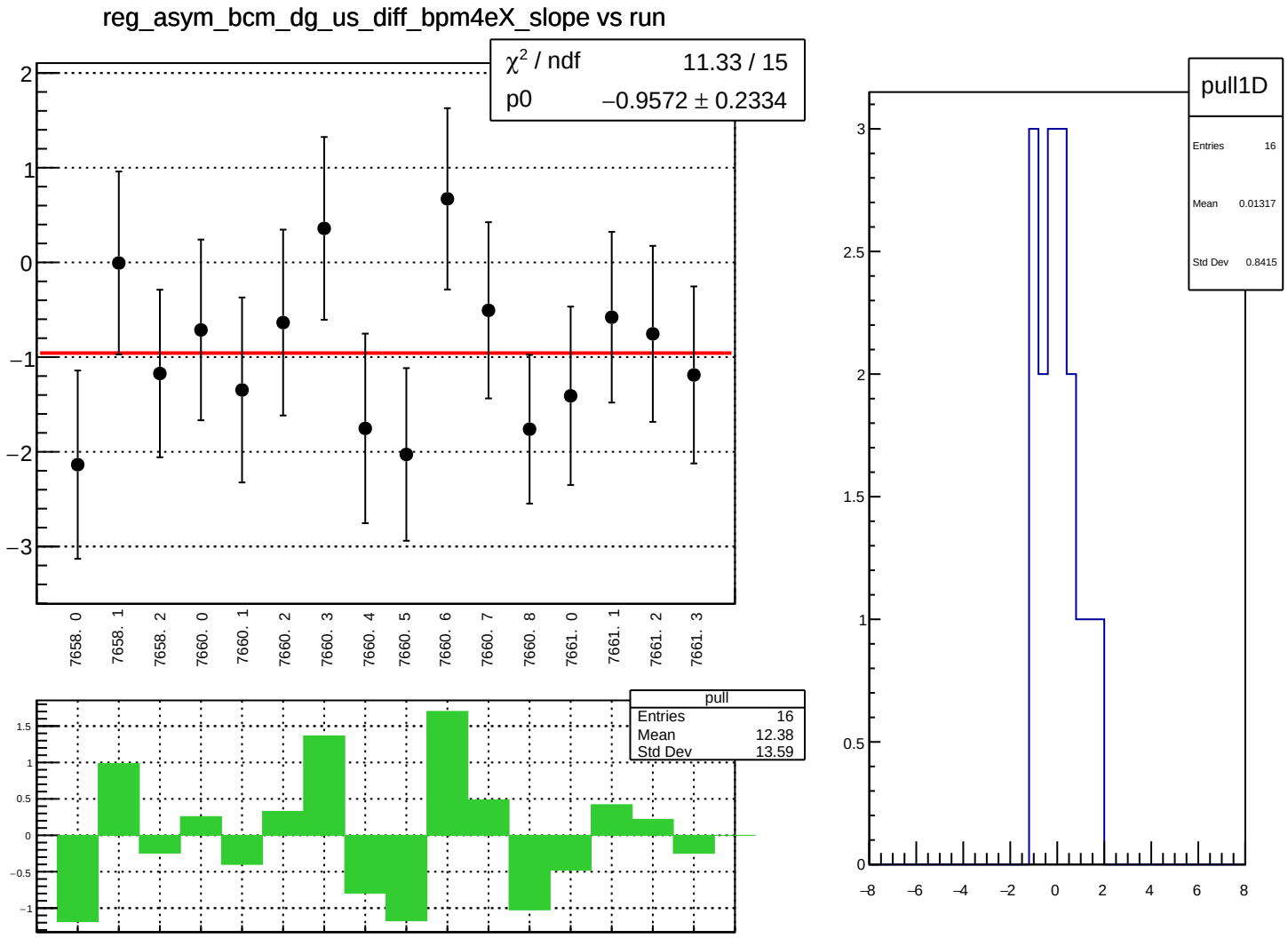

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 10.28 / 15
p0 −0.9276 ± 0.2328
1
0
−1
−2
−3
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 10.5
Std Dev 13.76
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 16
Mean 0.015
Std Dev 0.8014
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

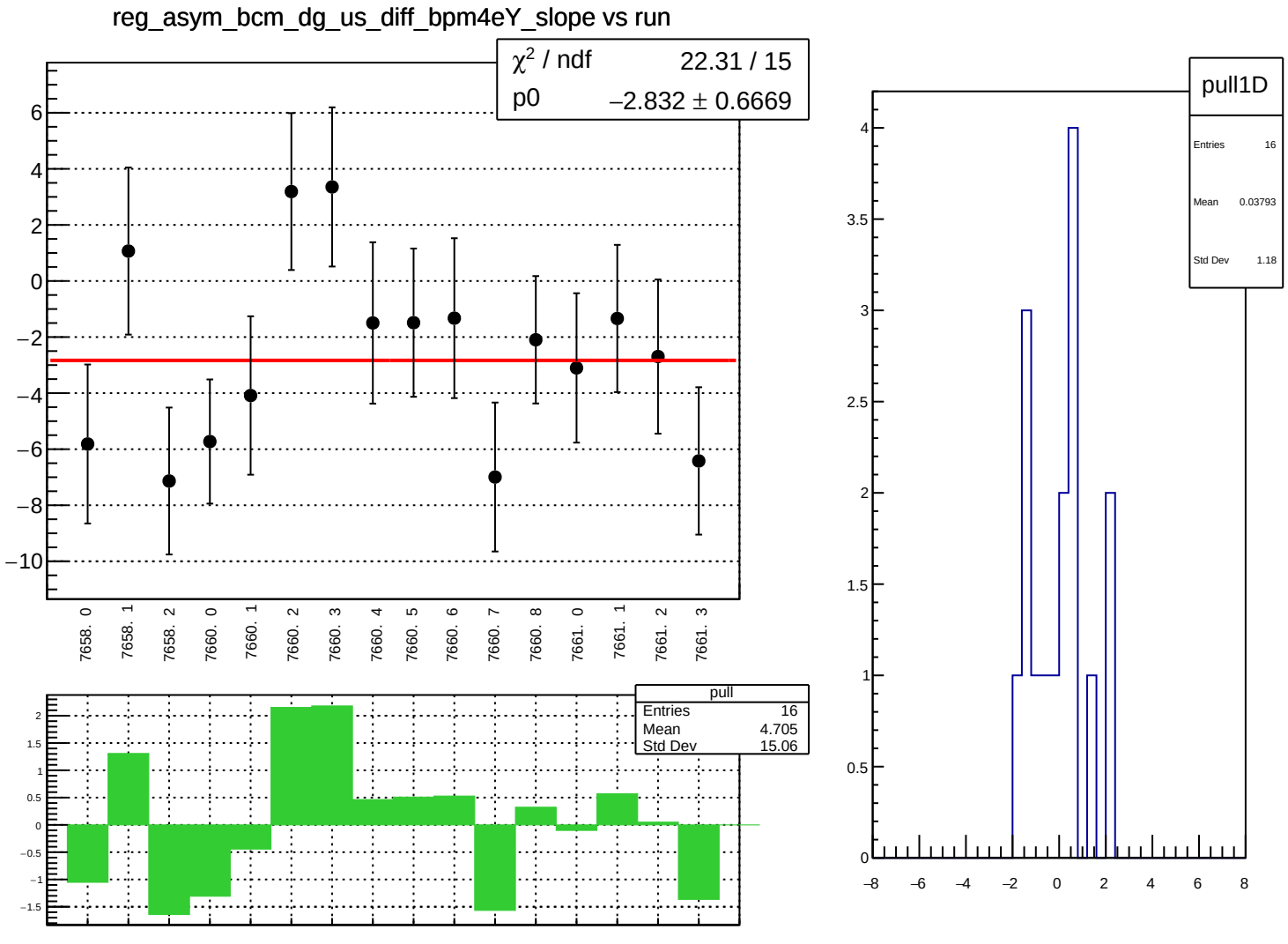

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 20.65 / 15
p0 −2.787 ± 0.665
6
4
2
0
−2
−4
−6
−8
−10
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 9.374
Std Dev 16.55
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 16
Mean 0.03246
Std Dev 1.136
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

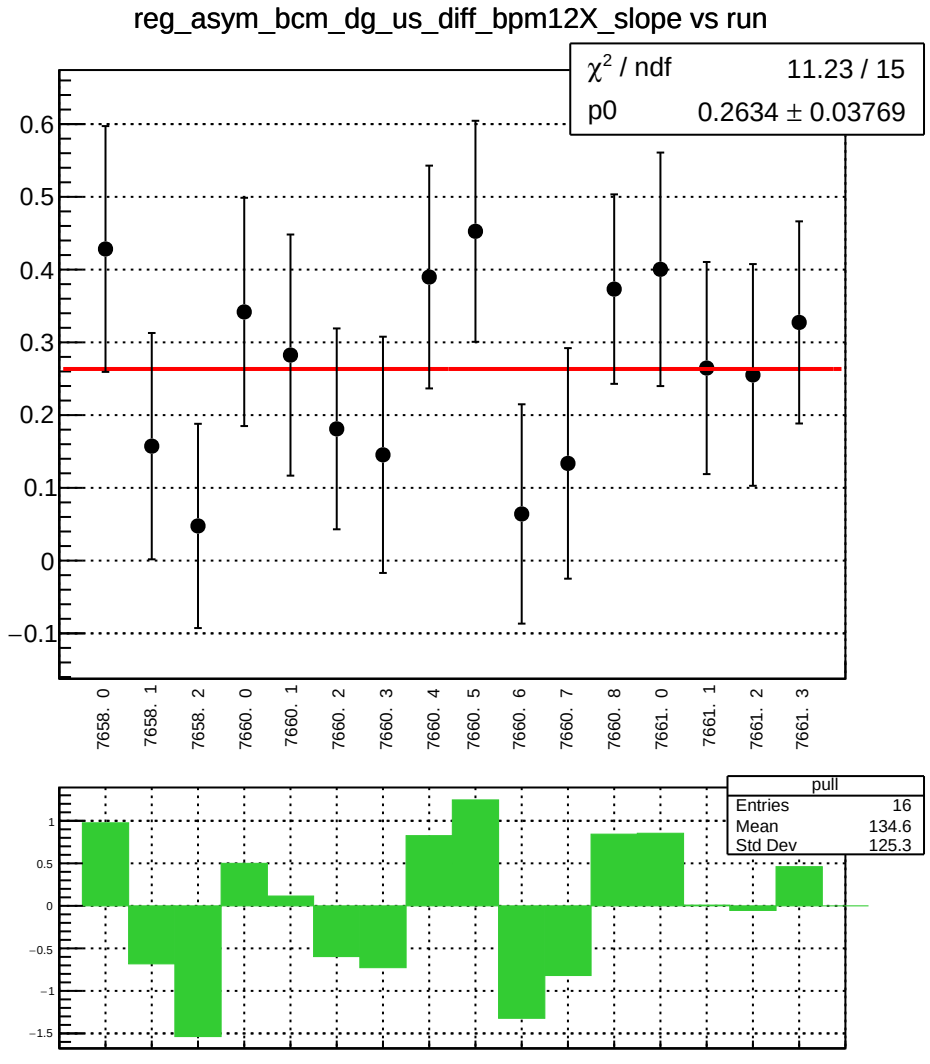

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 9.754 / 15
p0 0.2655 ± 0.03758
0.6
0.5
0.4
0.3
0.2
0.1
0
−0.1
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 214.3
Std Dev 205.4
1
0.5
0
−0.5
−1
pull1D
Entries 16
Mean 0.003799
Std Dev 0.7808
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

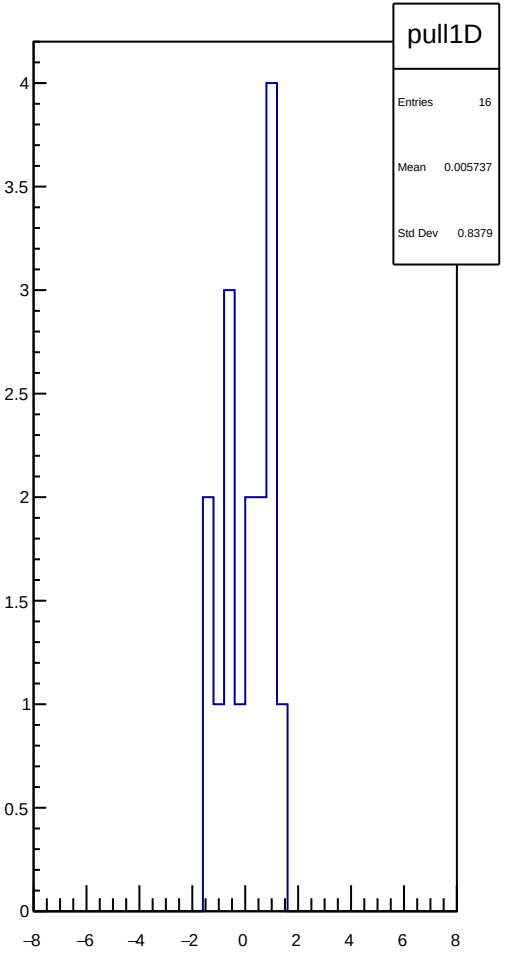

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 12.78 / 15
p0 1.216 ± 0.2841
4
3
2
1
0
−1
−2
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 0.1675
Std Dev 13.34
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 16
Mean −0.01685
Std Dev 0.8934
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 22.08 / 15
p0 1.642 ± 0.4574
6
4
2
0
−2
−4
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 6.711
Std Dev 14.32
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 16
Mean −0.03846
Std Dev 1.174
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_bpm4eX_slope vs run
χ² / ndf 11.33 / 15
p0 −0.9572 ± 0.2334
2
1
0
−1
−2
−3
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 12.38
Std Dev 13.59
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 16
Mean 0.01317
Std Dev 0.8415
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 22.31 / 15
p0 −2.832 ± 0.6669
6
4
2
0
−2
−4
−6
−8
−10
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 4.705
Std Dev 15.06
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 16
Mean 0.03793
Std Dev 1.18
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_bpm12X_slope vs run
χ² / ndf 11.23 / 15
p0 0.2634 ± 0.03769
0.6
0.5
0.4
0.3
0.2
0.1
0
−0.1
7658. 0
7658. 1
7658. 2
7660. 0
7660. 1
7660. 2
7660. 3
7660. 4
7660. 5
7660. 6
7660. 7
7660. 8
7661. 0
7661. 1
7661. 2
7661. 3
pull
Entries 16
Mean 134.6
Std Dev 125.3
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 16
Mean 0.005737
Std Dev 0.8379
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8