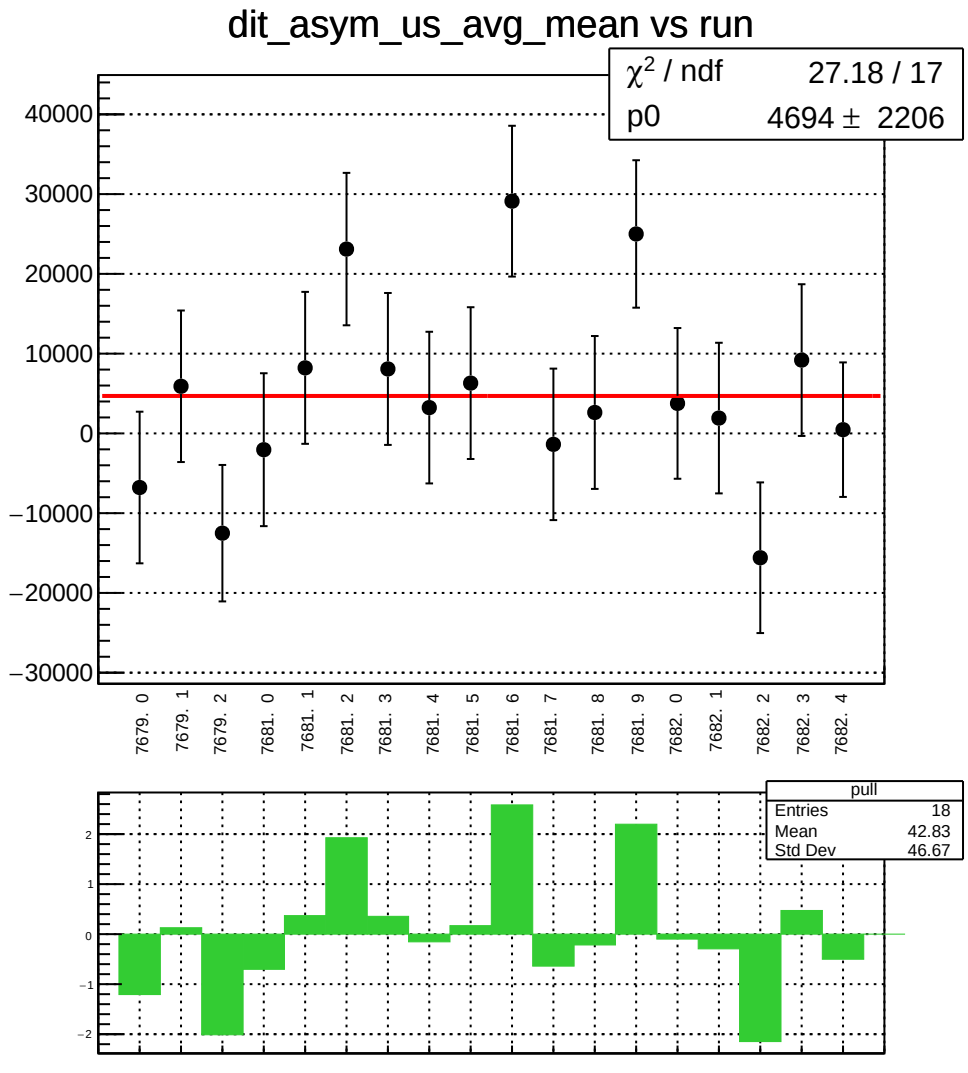
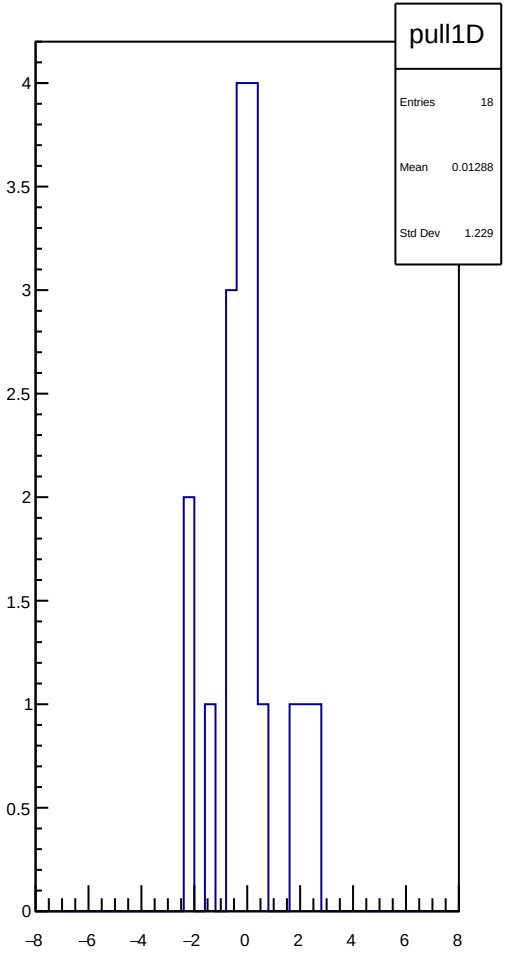
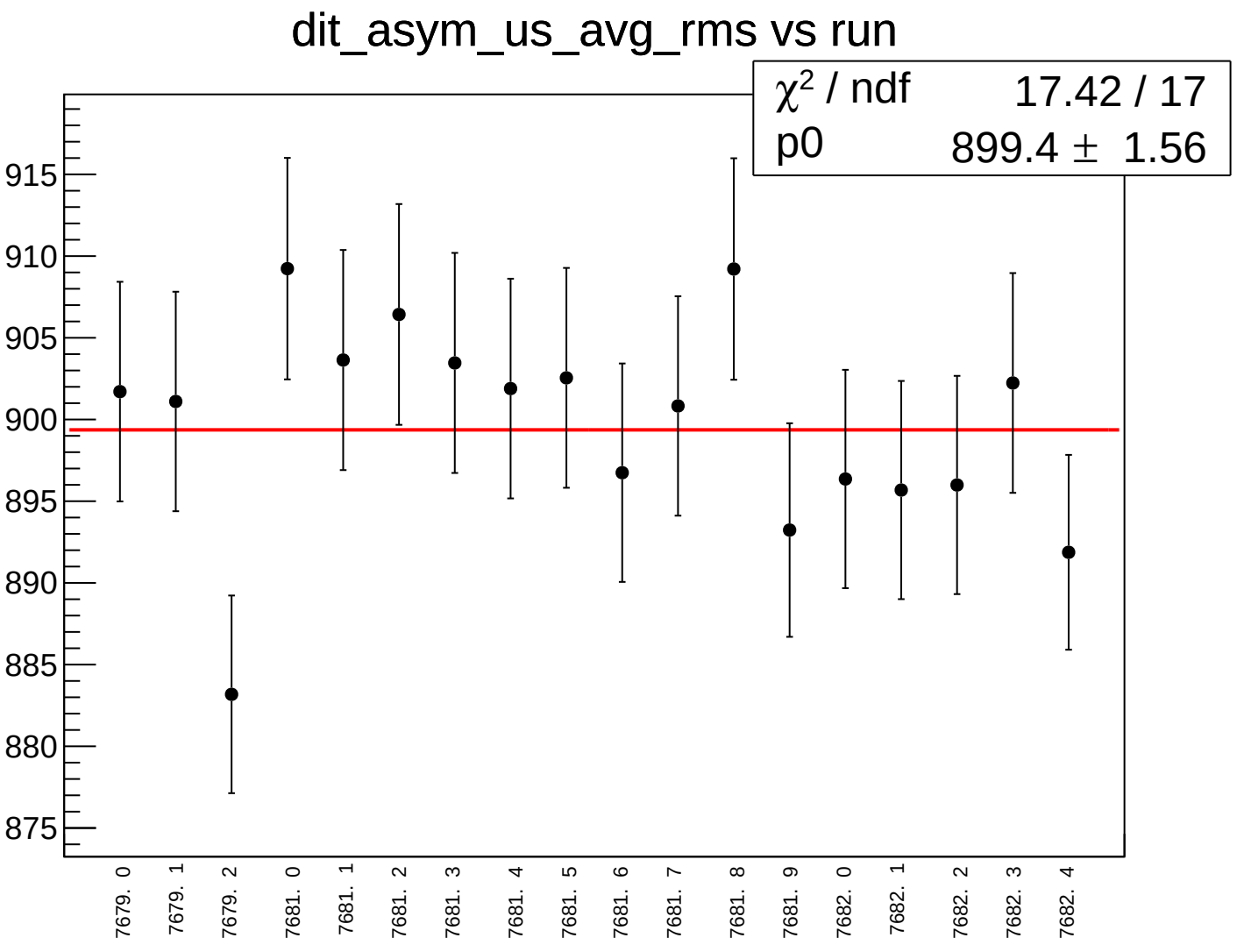
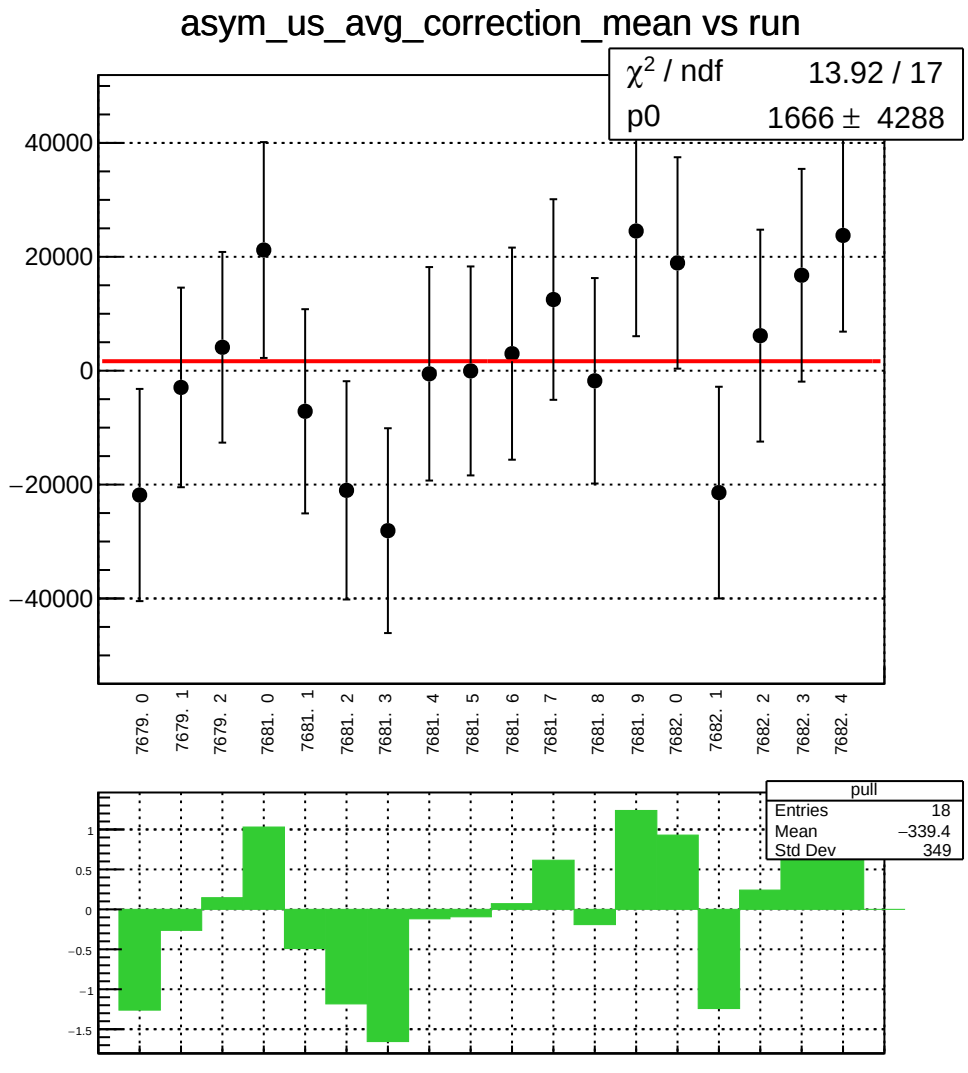
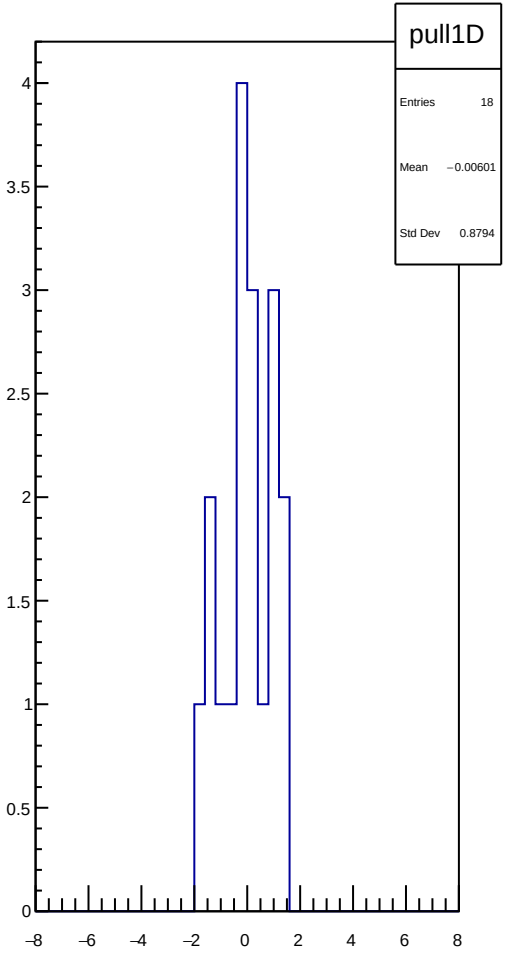
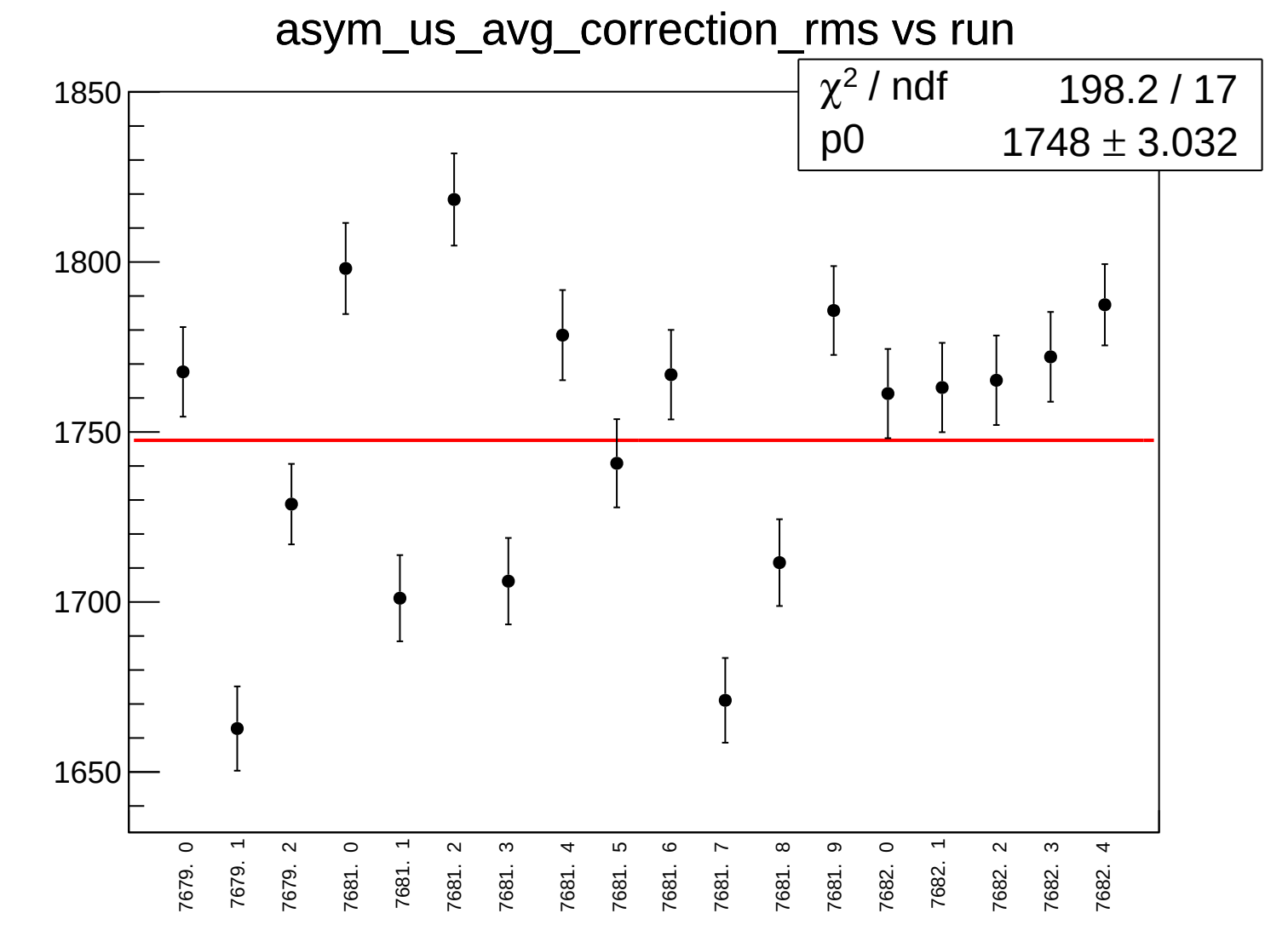

dit_asym_us_avg_mean vs run
χ² / ndf 27.18 / 17
p0 4694 ± 2206
40000
30000
20000
10000
0
−10000
−20000
−30000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 42.83
Std Dev 46.67
2
1
0
−1
−2

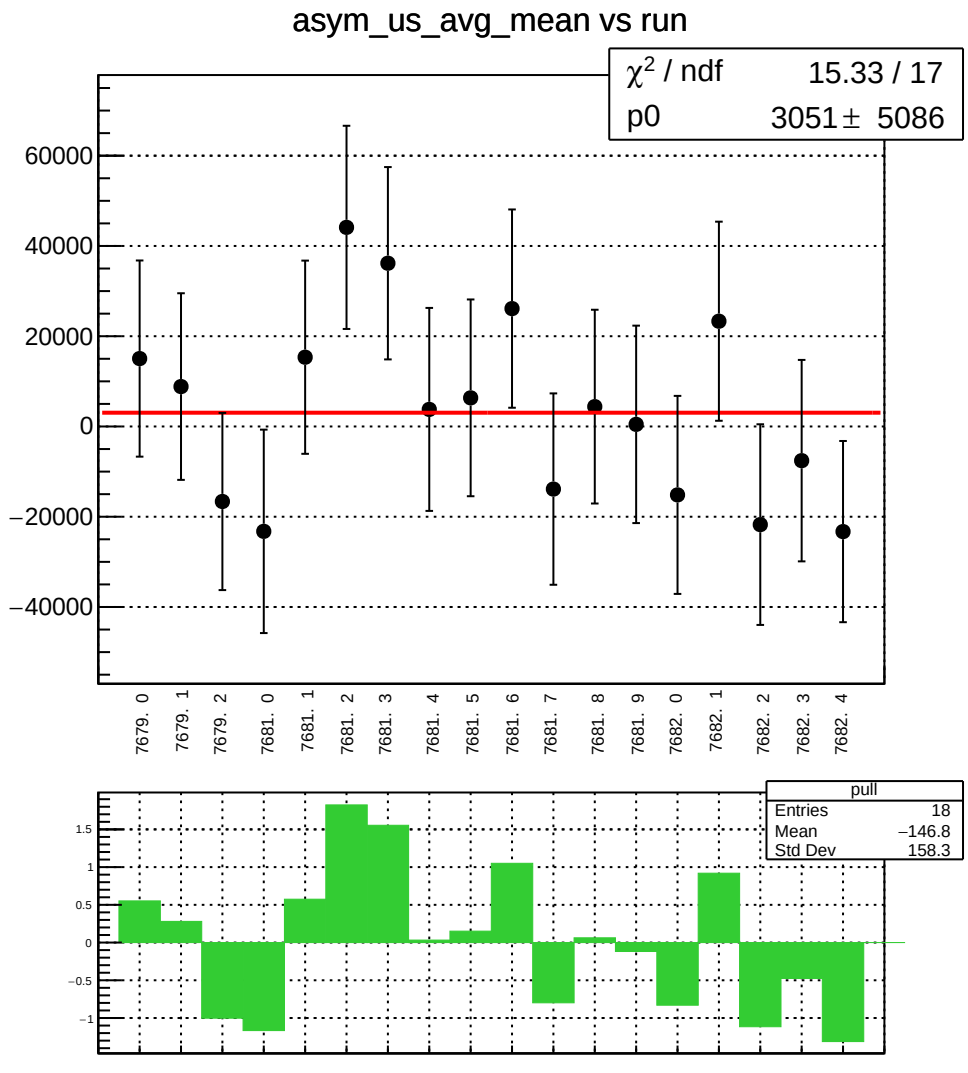

pull1D
Entries 18
Mean 0.01288
Std Dev 1.229
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

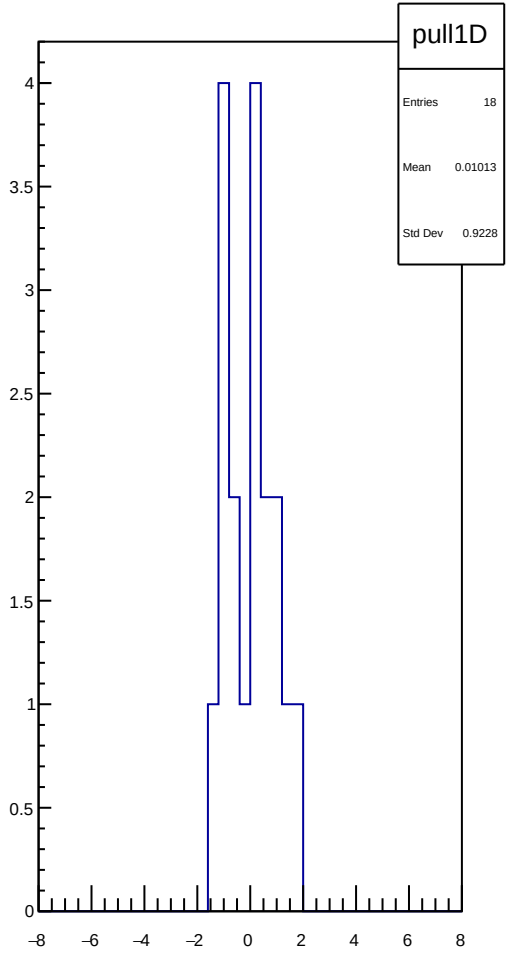

dit_asym_us_avg_rms vs run
χ² / ndf 17.42 / 17
p0 899.4 ± 1.56
915
910
905
900
895
890
885
880
875
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

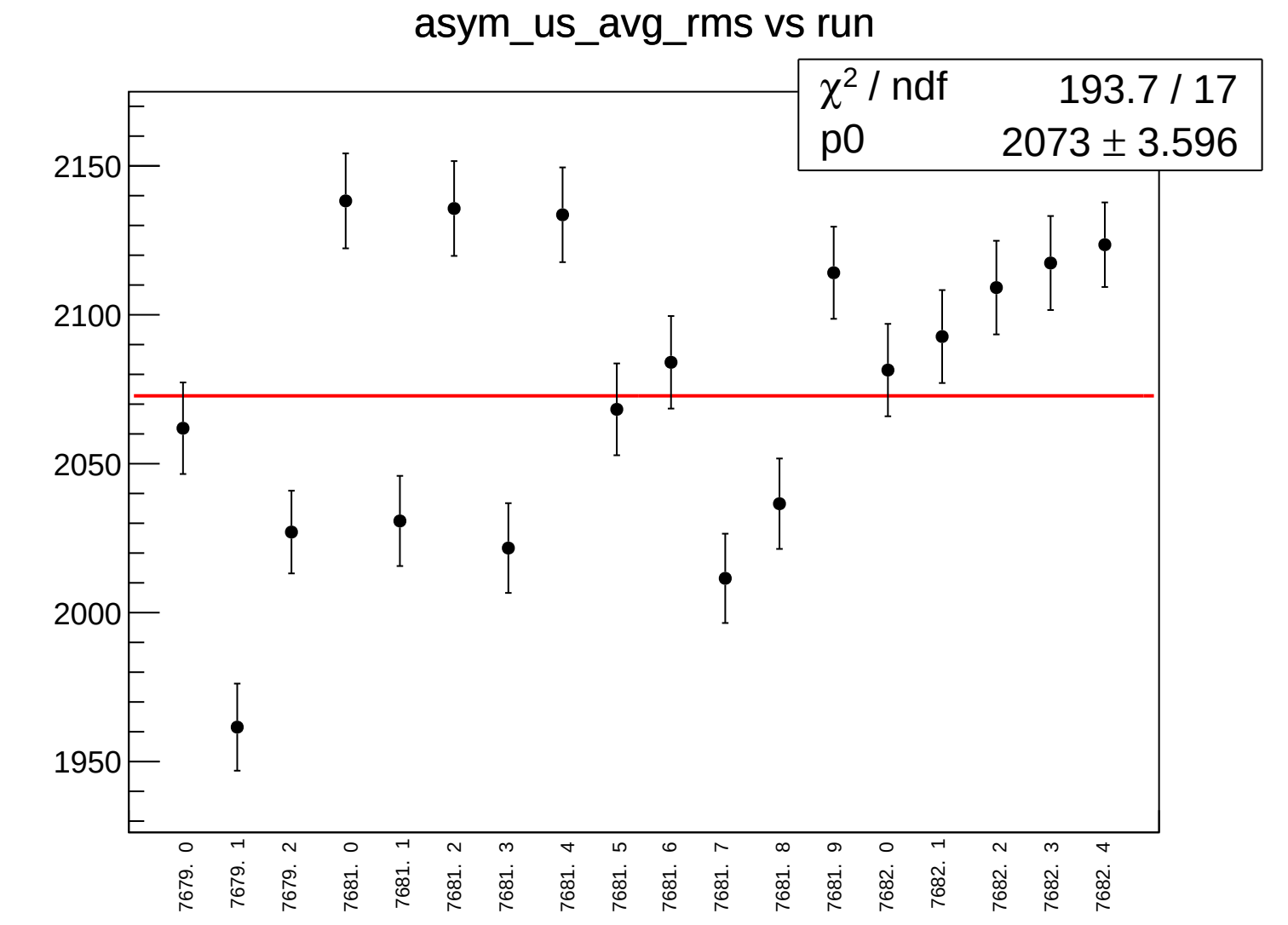

asym_us_avg_correction_mean vs run
χ² / ndf 13.92 / 17
p0 1666 ± 4288
40000
20000
0
−20000
−40000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −339.4
Std Dev 349
1
0.5
0
−0.5
−1
−1.5

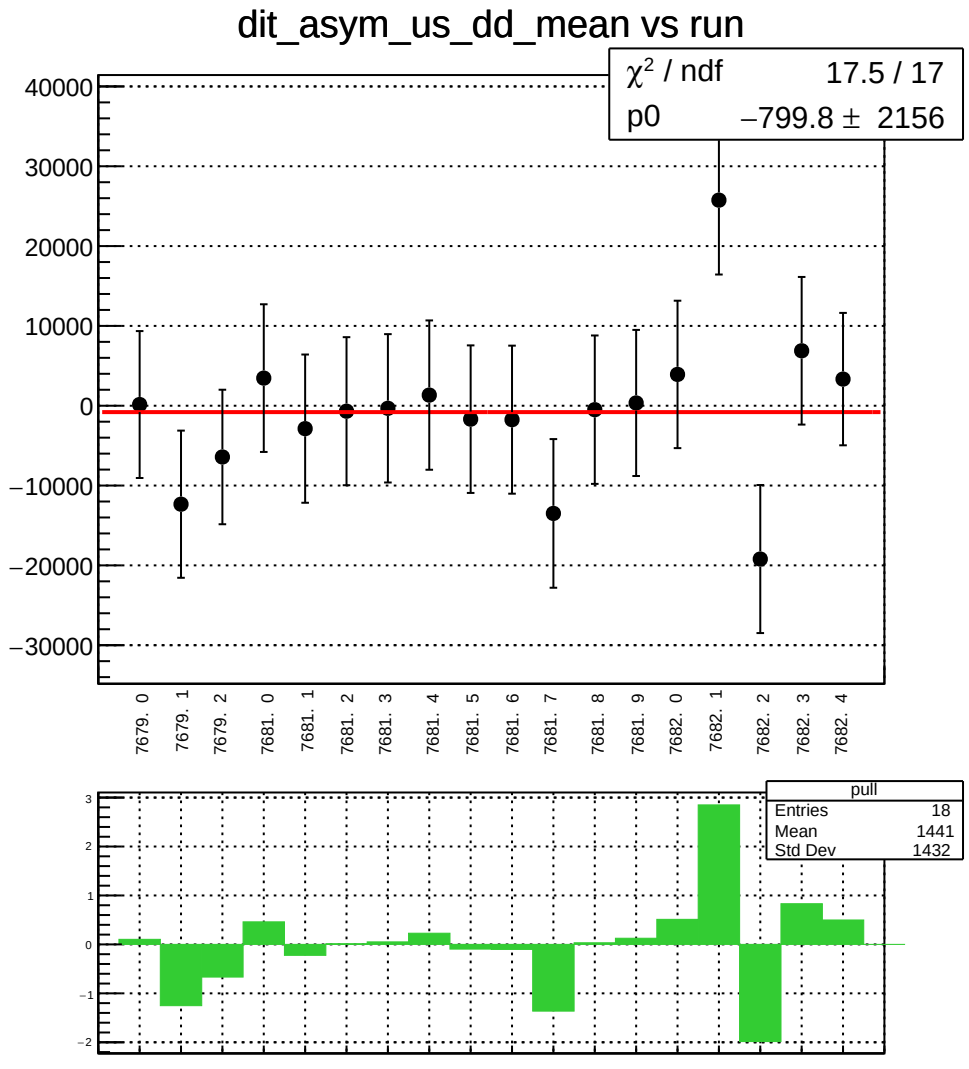

pull1D
Entries 18
Mean −0.00601
Std Dev 0.8794
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

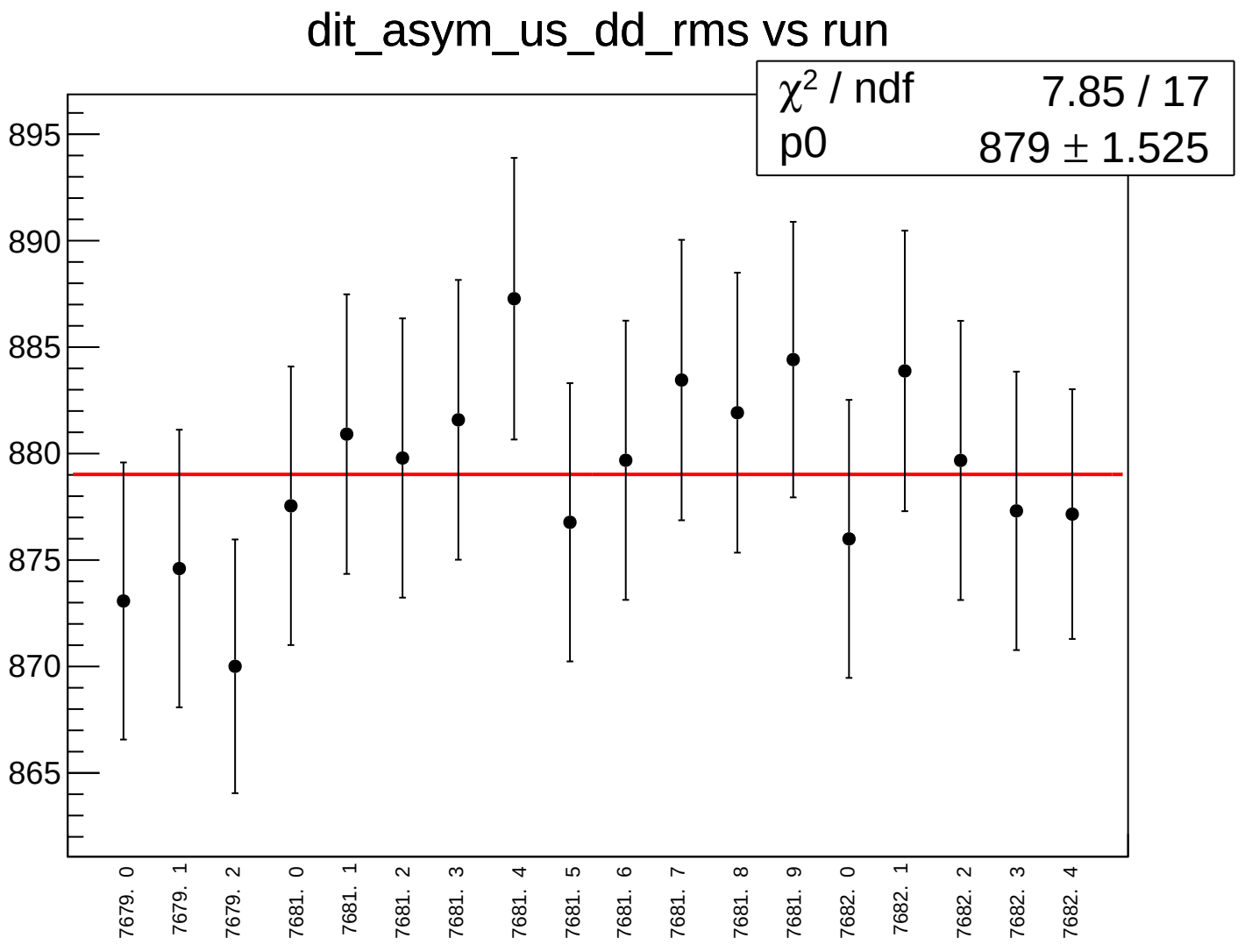

asym_us_avg_correction_rms vs run
χ² / ndf 198.2 / 17
p0 1748 ± 3.032
1850
1800
1750
1700
1650
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

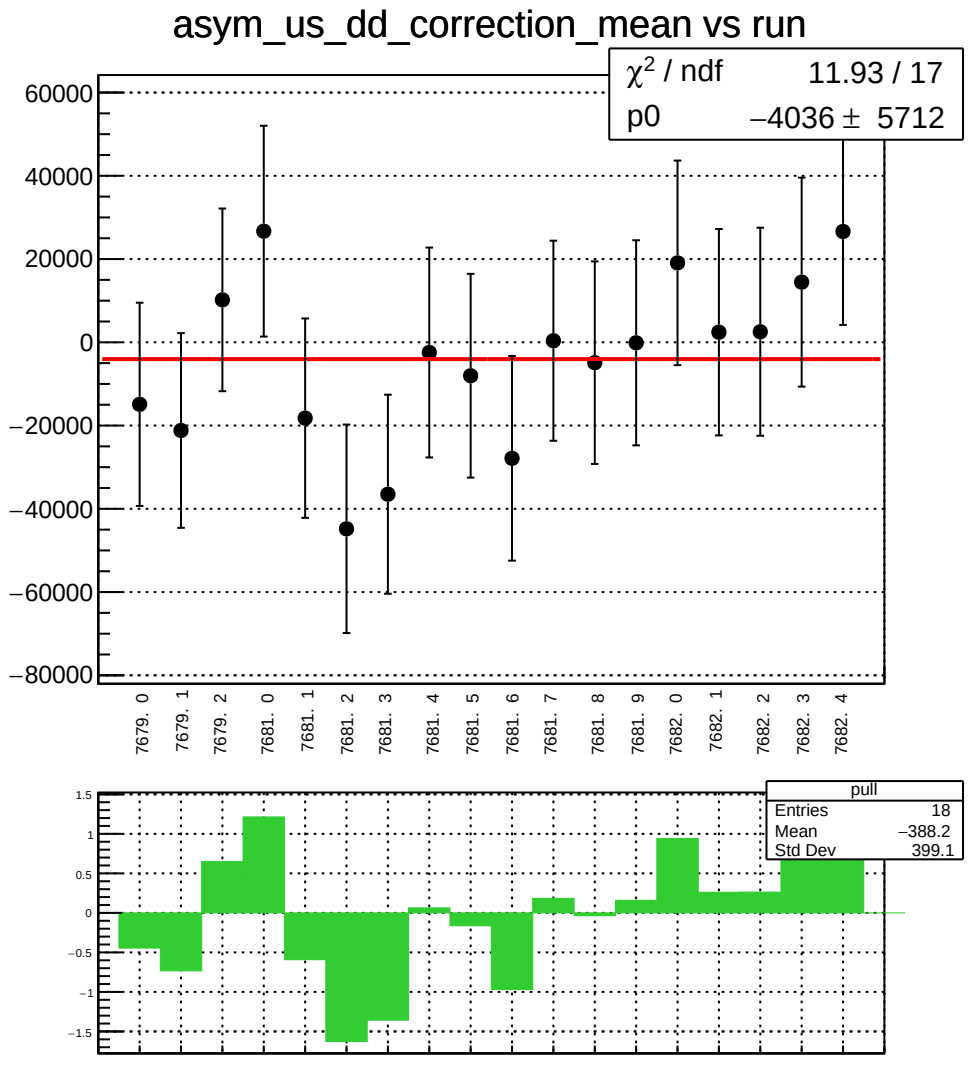

asym_us_avg_mean vs run
χ² / ndf 15.33 / 17
p0 3051 ± 5086
60000
40000
20000
0
−20000
−40000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −146.8
Std Dev 158.3
1.5
1
0.5
0
−0.5
−1

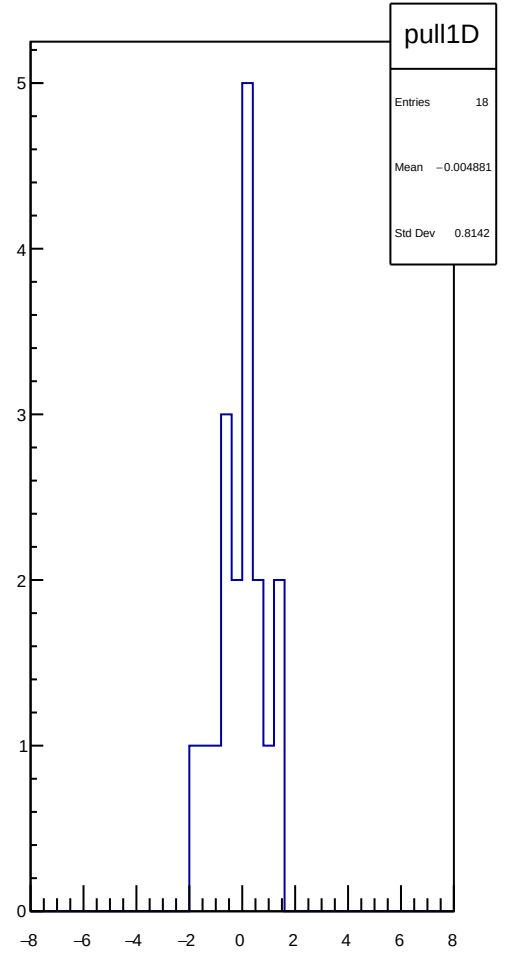

pull1D
Entries 18
Mean 0.01013
Std Dev 0.9228
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

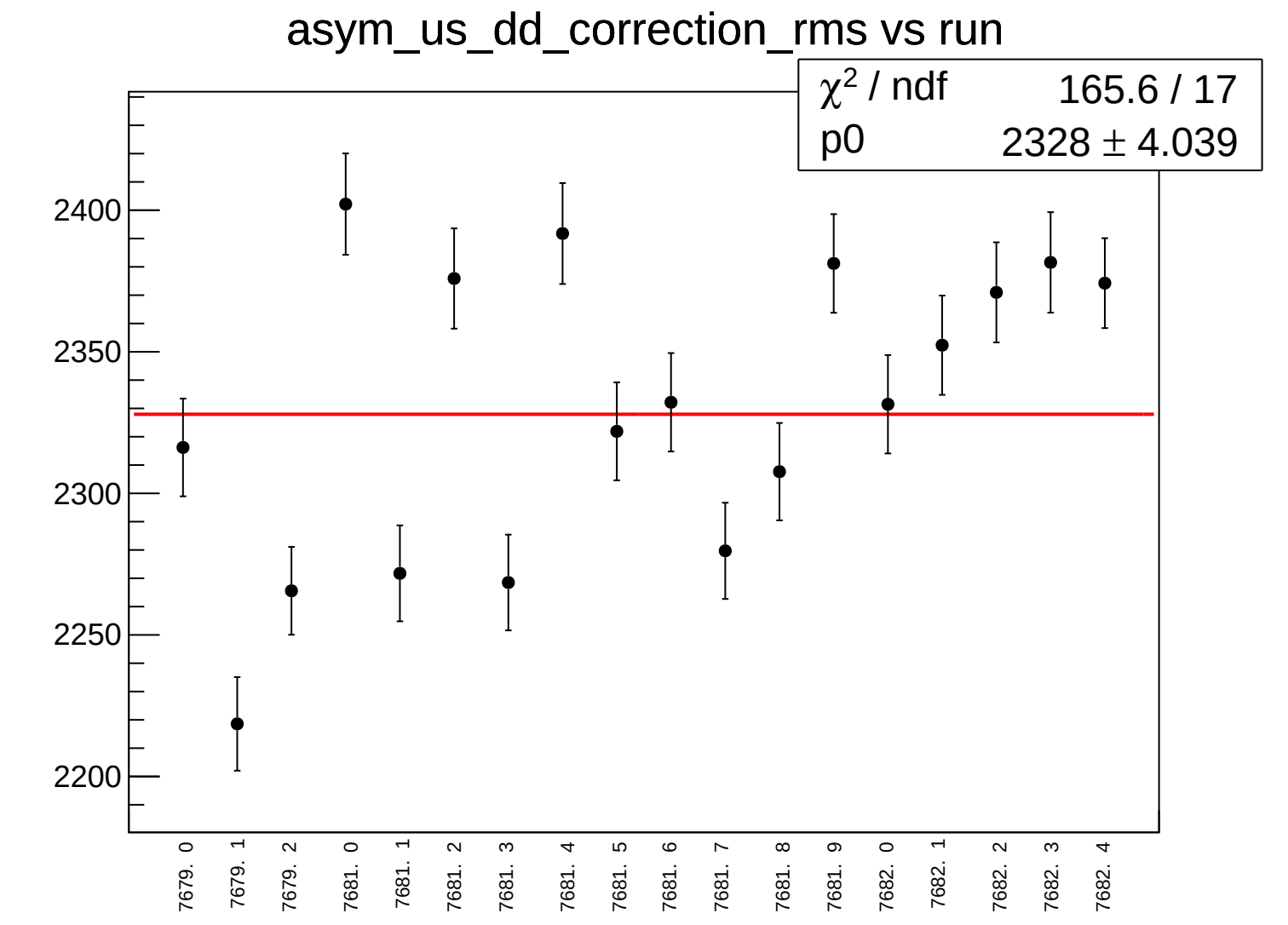

asym_us_avg_rms vs run
χ² / ndf 193.7 / 17
p0 2073 ± 3.596
2150
2100
2050
2000
1950
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

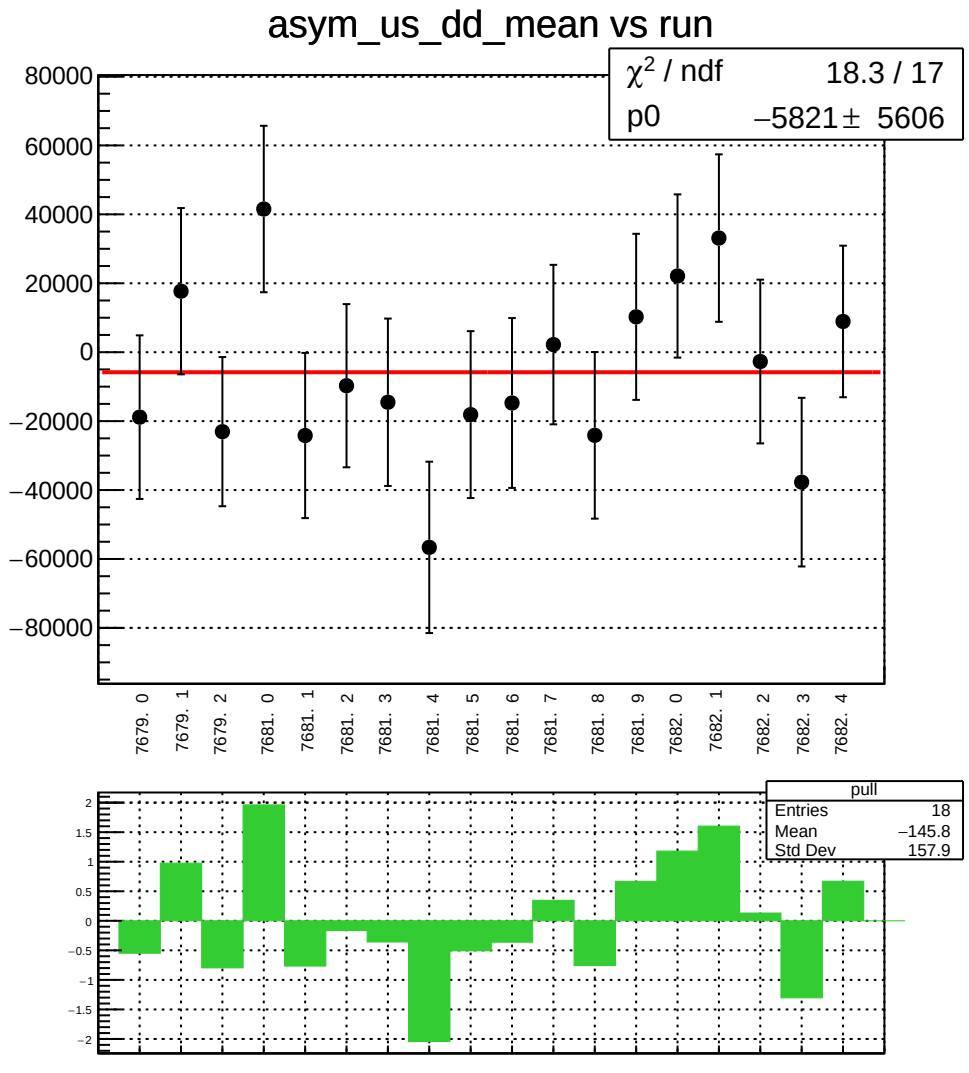

dit_asym_us_dd_mean vs run
χ² / ndf 17.5 / 17
p0 −799.8 ± 2156
40000
30000
20000
10000
0
−10000
−20000
−30000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 1441
Std Dev 1432
3
2
1
0
−1
−2
pull1D
Entries 18
Mean 0.0009628
Std Dev 0.9859
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

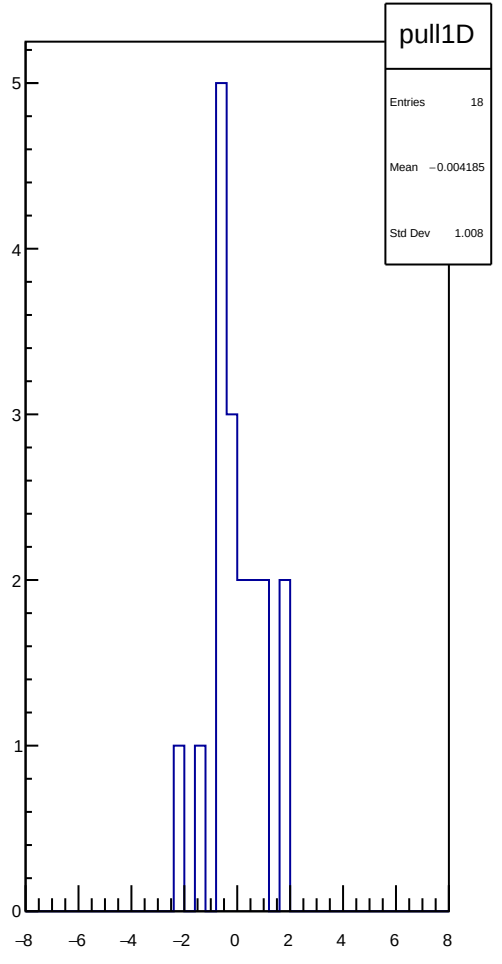

dit_asym_us_dd_rms vs run
χ² / ndf 7.85 / 17
p0 879 ± 1.525
895
890
885
880
875
870
865
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

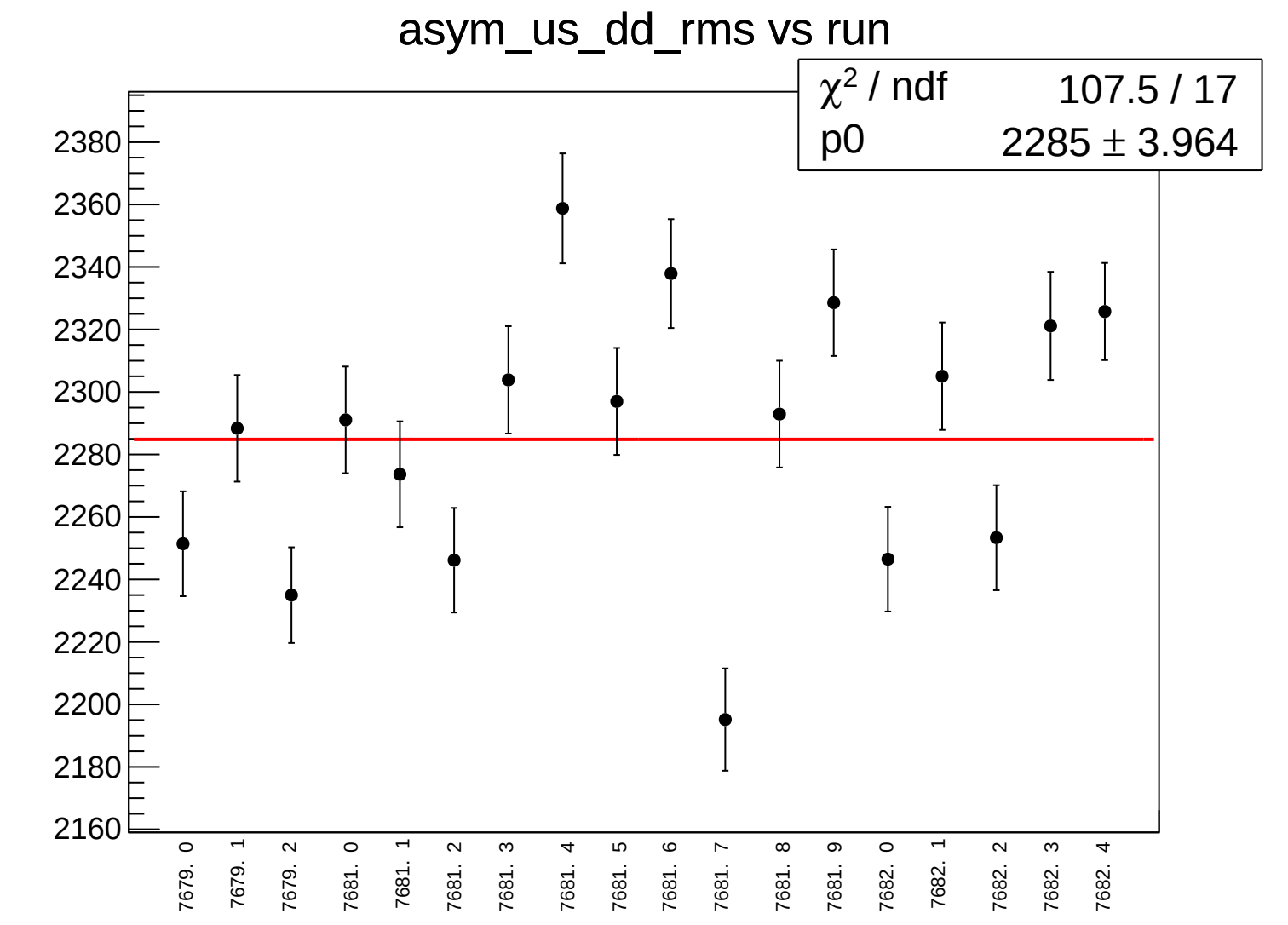

asym_us_dd_correction_mean vs run
χ² / ndf 11.93 / 17
p0 −4036 ± 5712
60000
40000
20000
0
−20000
−40000
−60000
−80000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −388.2
Std Dev 399.1
1.5
1
0.5
0
−0.5
−1
−1.5

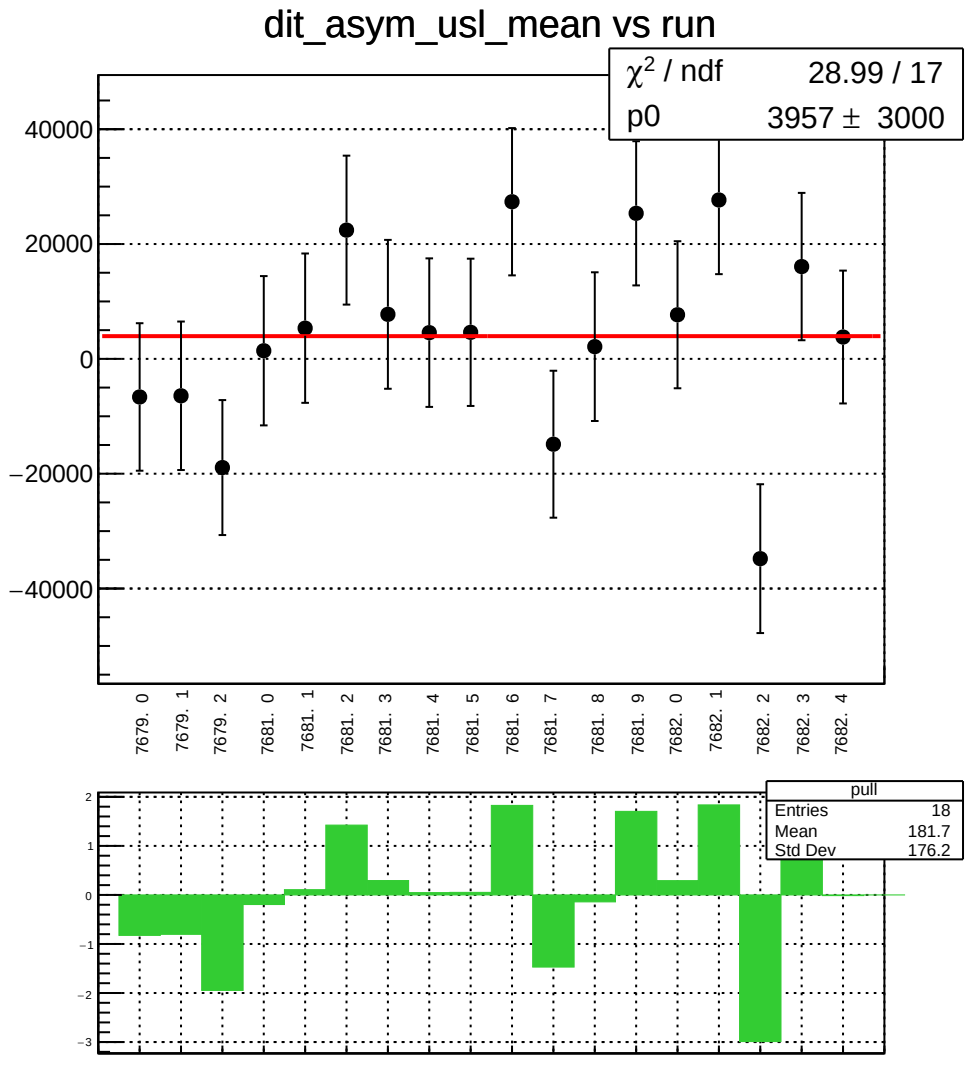

pull1D
Entries 18
Mean −0.004881
Std Dev 0.8142
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

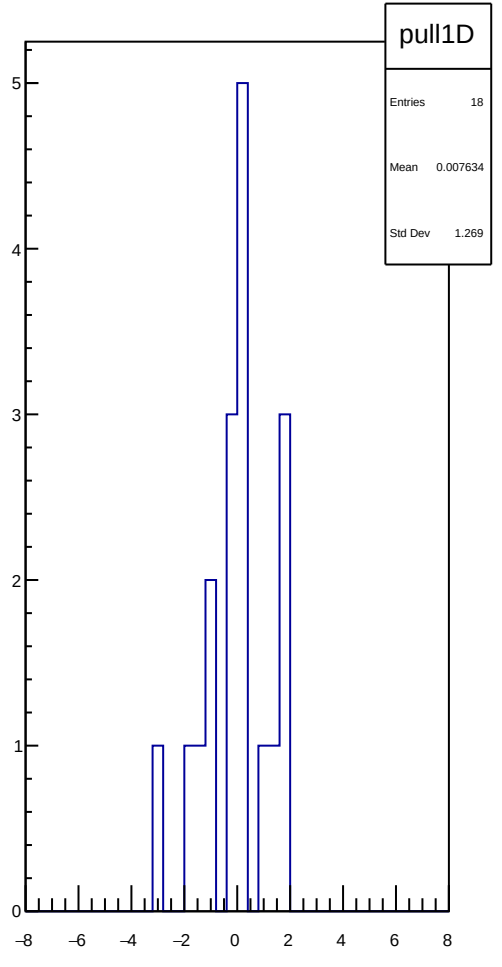

asym_us_dd_correction_rms vs run
χ² / ndf 165.6 / 17
p0 2328 ± 4.039
2400
2350
2300
2250
2200
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

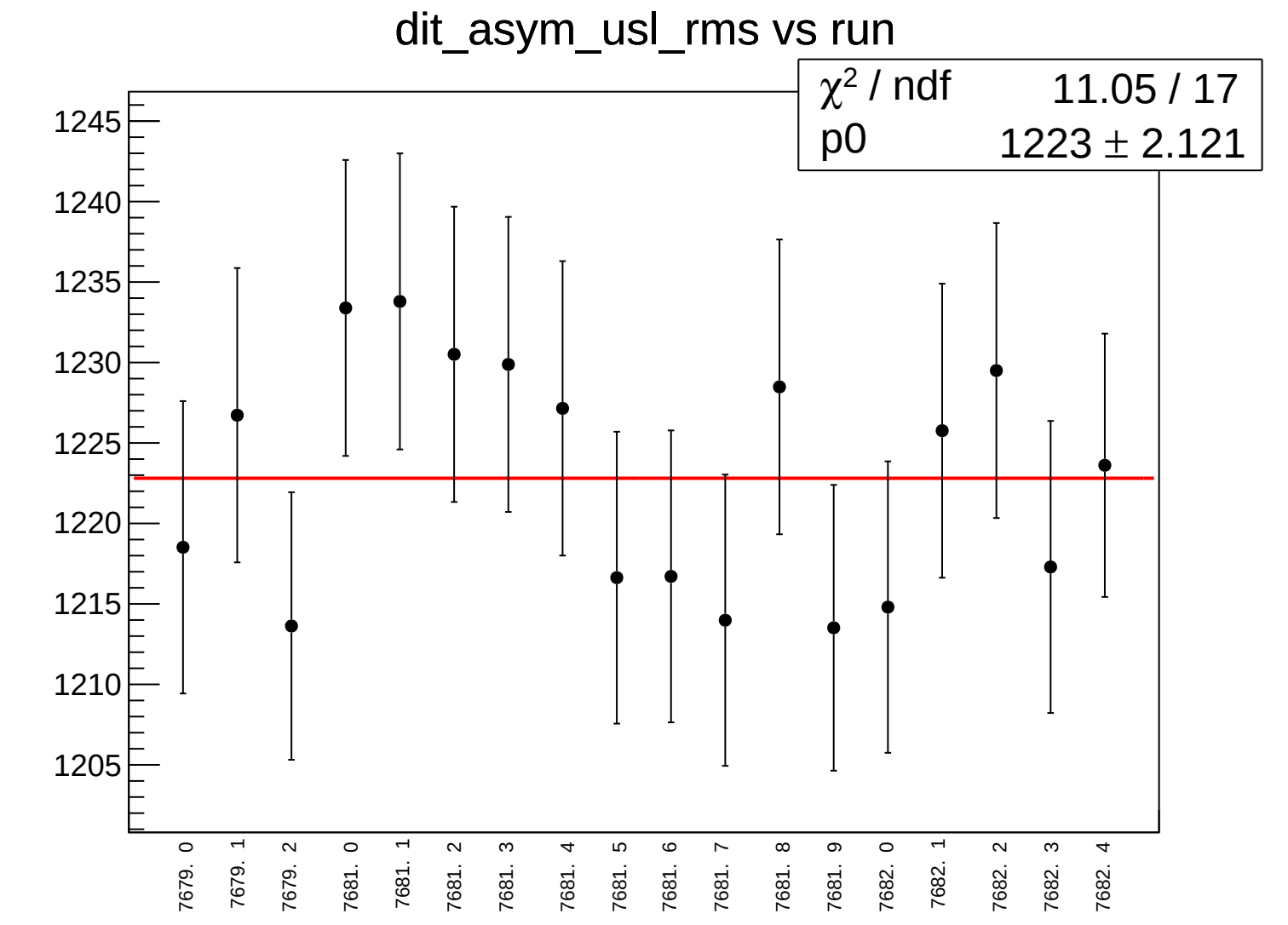

asym_us_dd_mean vs run
χ² / ndf 18.3 / 17
p0 −5821 ± 5606
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −145.8
Std Dev 157.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

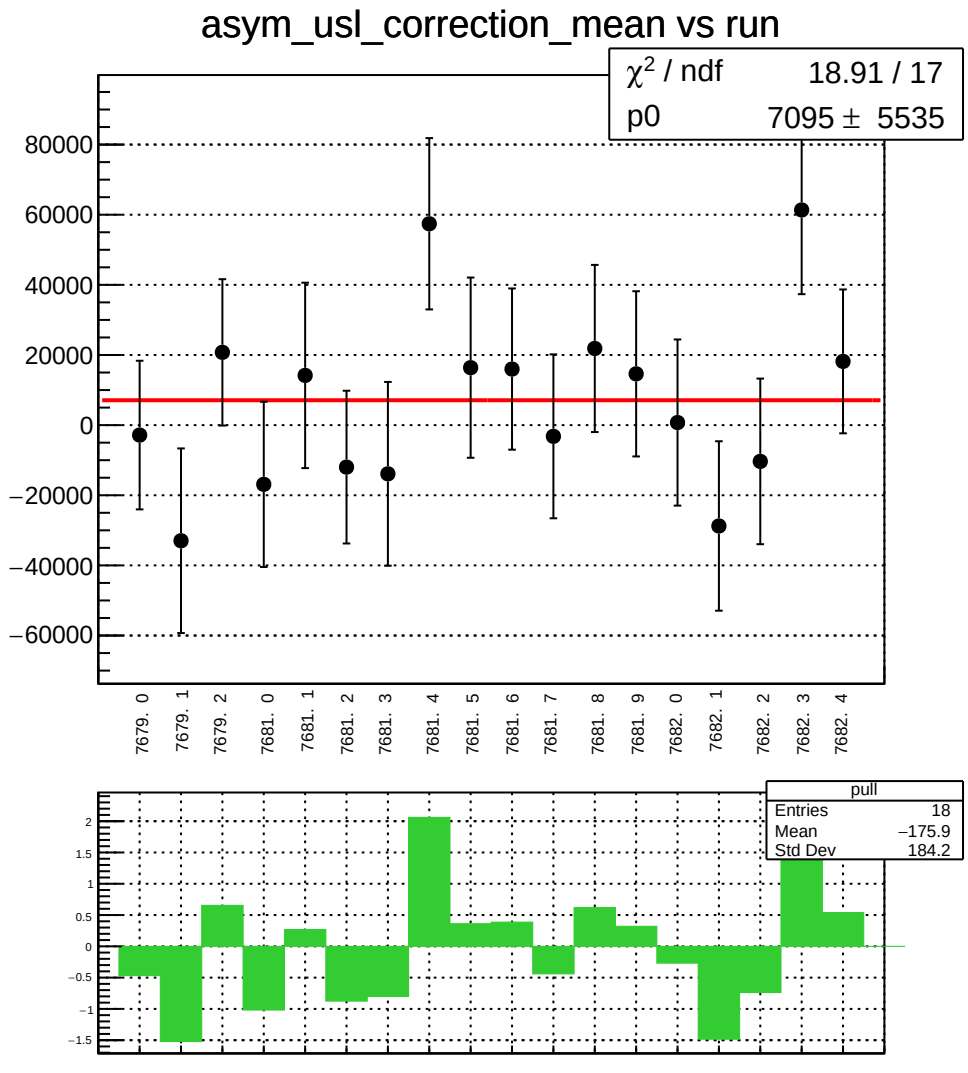

pull1D
Entries 18
Mean −0.004185
Std Dev 1.008
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

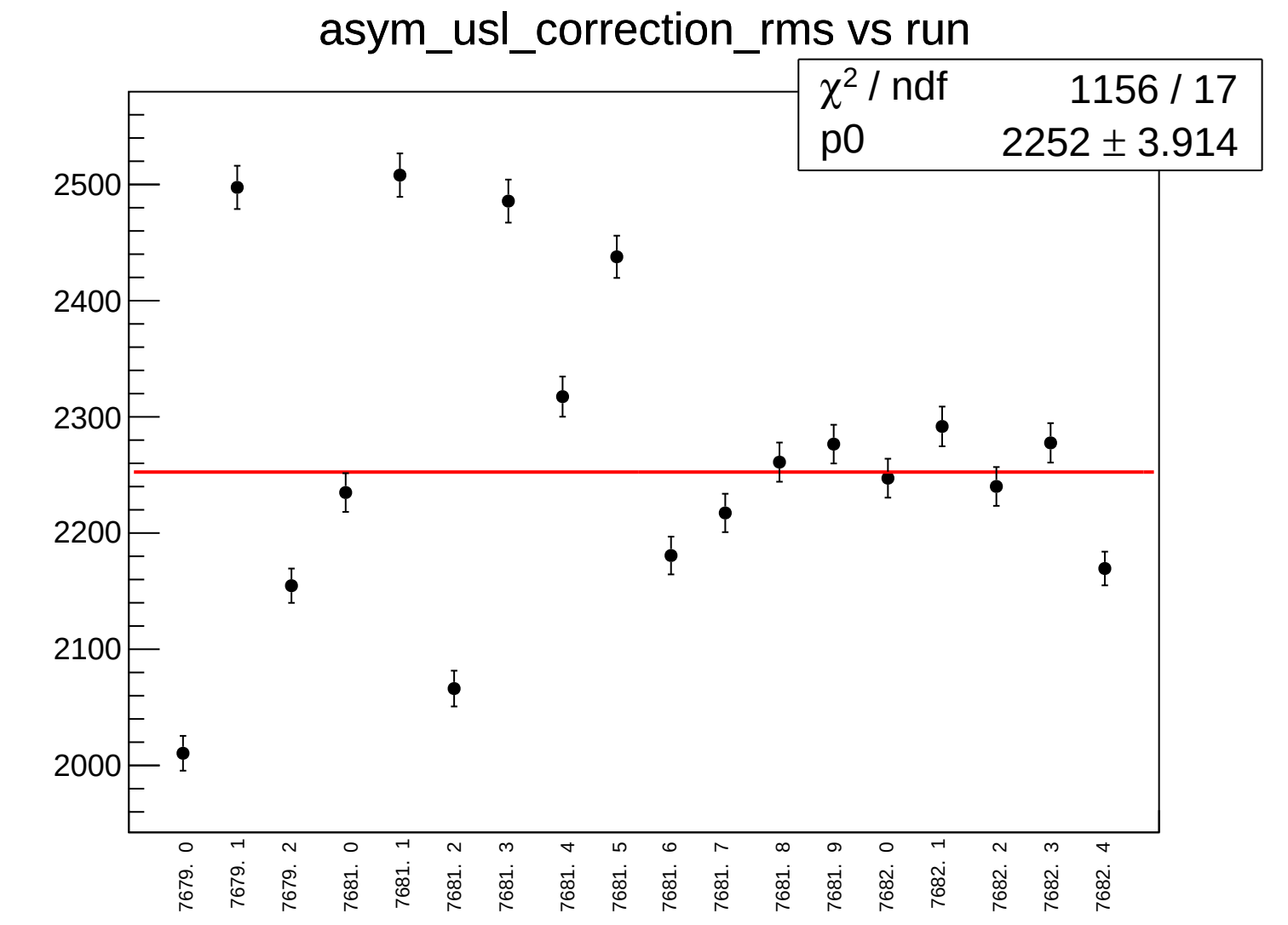

asym_us_dd_rms vs run
χ^2 / ndf 107.5 / 17
p0 2285 ± 3.964
2380
2360
2340
2320
2300
2280
2260
2240
2220
2200
2180
2160
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

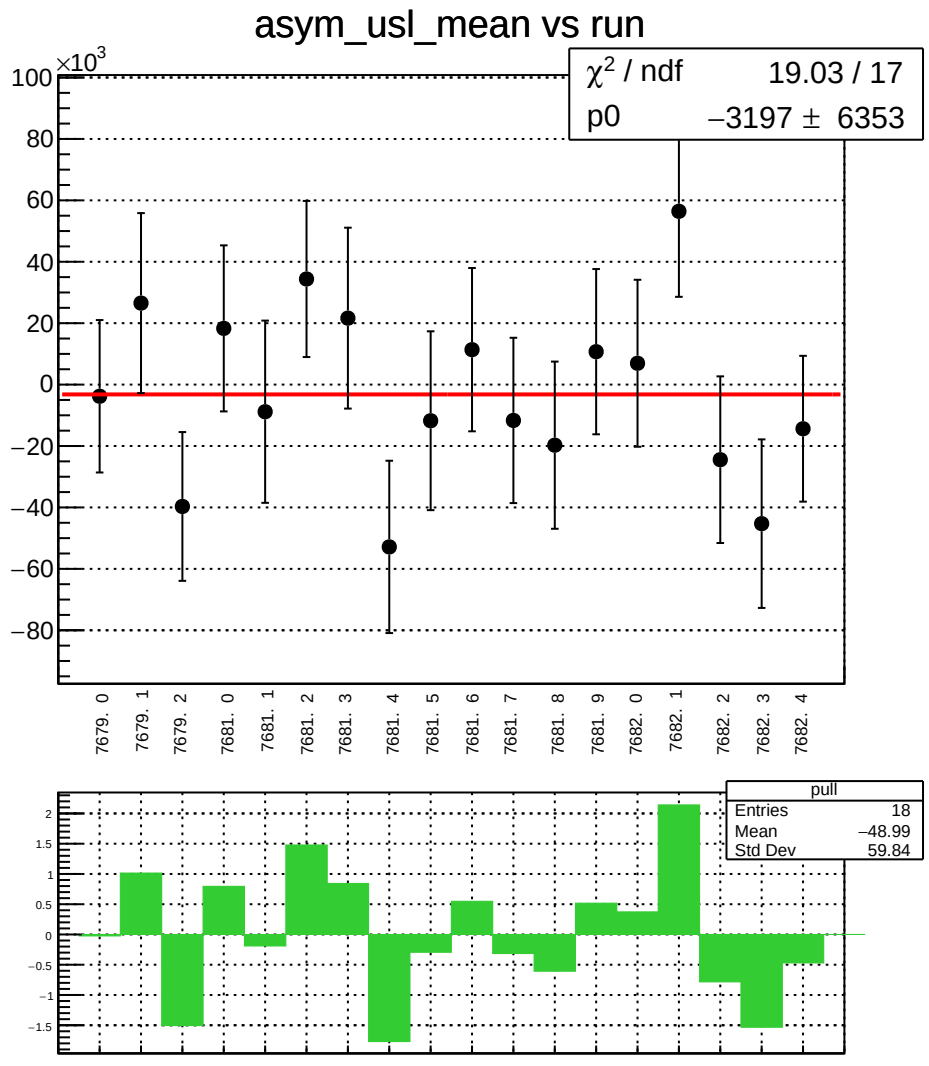

dit_asym_usl_mean vs run
χ² / ndf 28.99 / 17
p0 3957 ± 3000
40000
20000
0
−20000
−40000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 181.7
Std Dev 176.2
2
1
0
−1
−2
−3

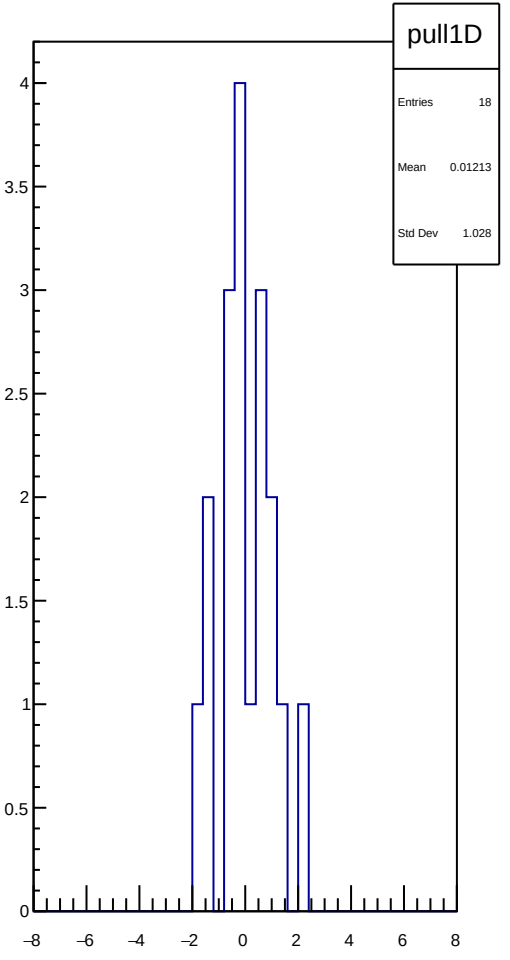

pull1D
Entries 18
Mean 0.007634
Std Dev 1.269
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

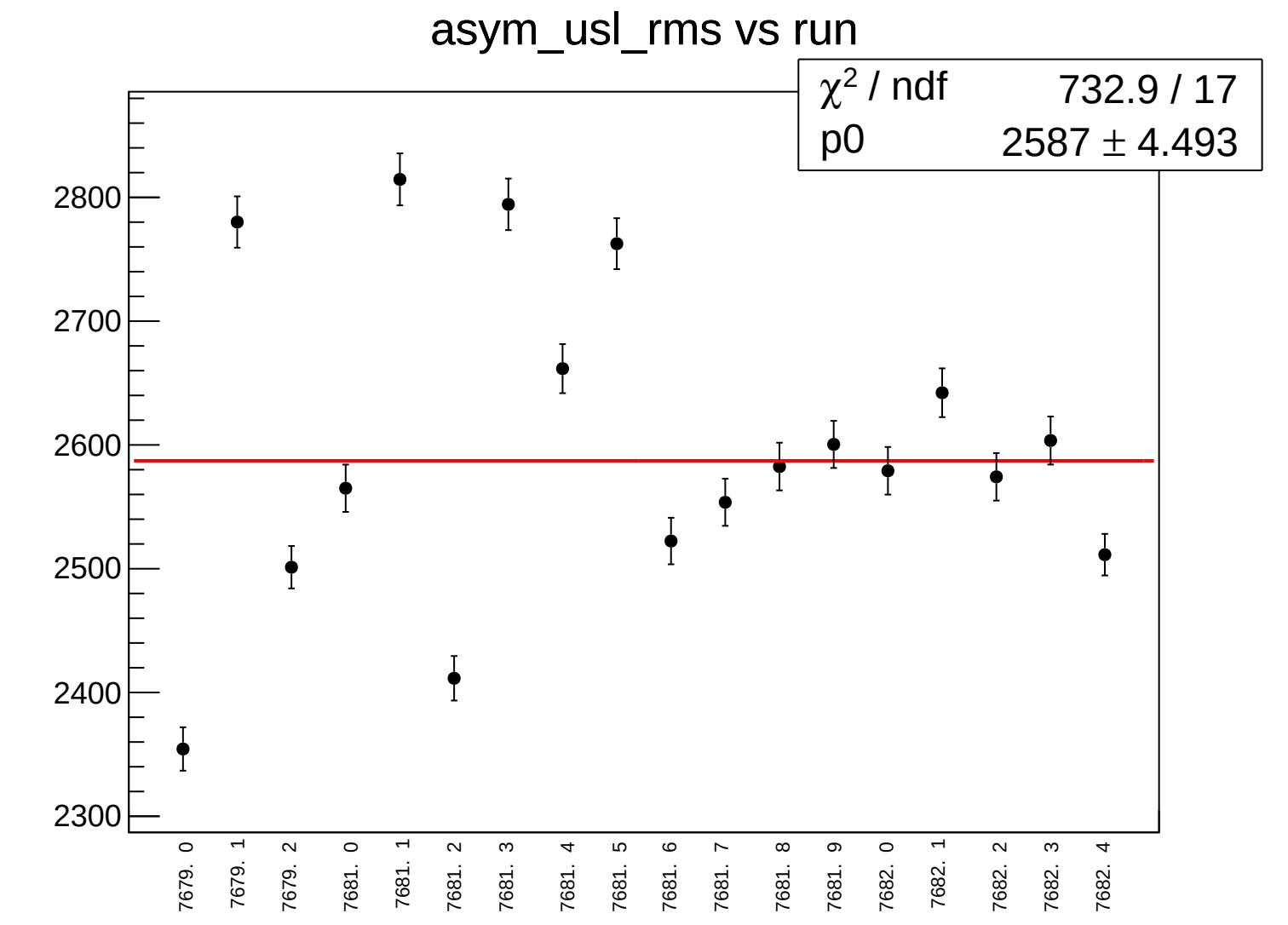

dit_asym_usl_rms vs run
χ² / ndf 11.05 / 17
p0 1223 ± 2.121
1245
1240
1235
1230
1225
1220
1215
1210
1205
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

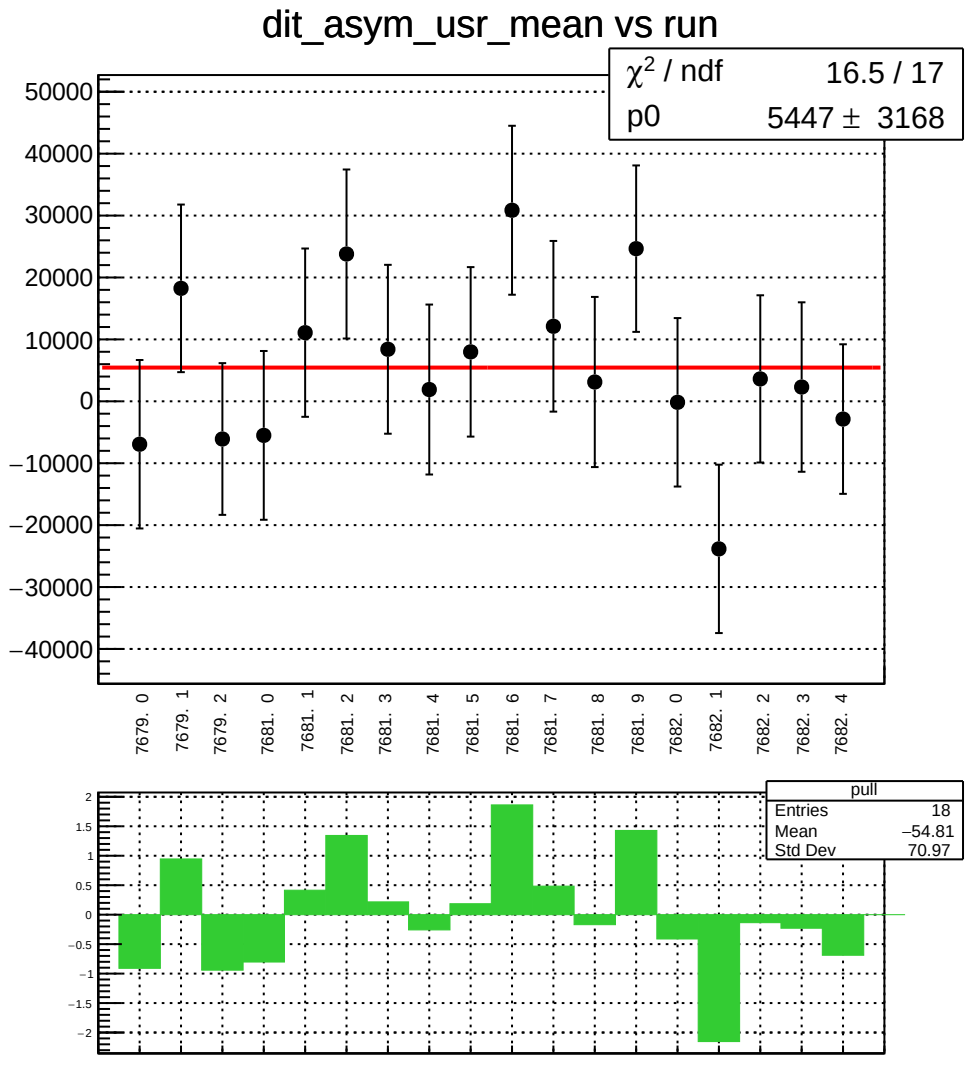

asym_usl_correction_mean vs run
χ² / ndf 18.91 / 17
p0 7095 ± 5535
80000
60000
40000
20000
0
−20000
−40000
−60000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −175.9
Std Dev 184.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 18
Mean −0.008085
Std Dev 1.025
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

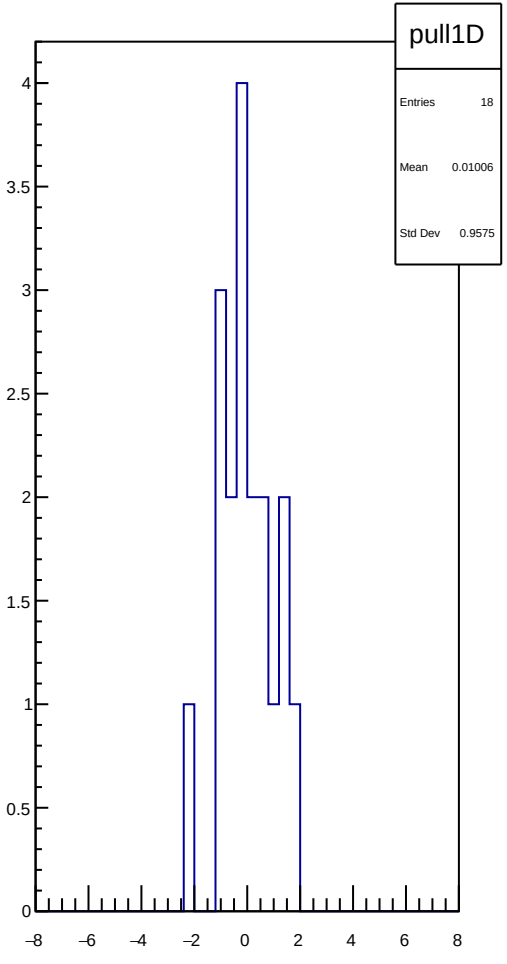

asym_usl_correction_rms vs run
χ² / ndf 1156 / 17
p0 2252 ± 3.914
2500
2400
2300
2200
2100
2000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

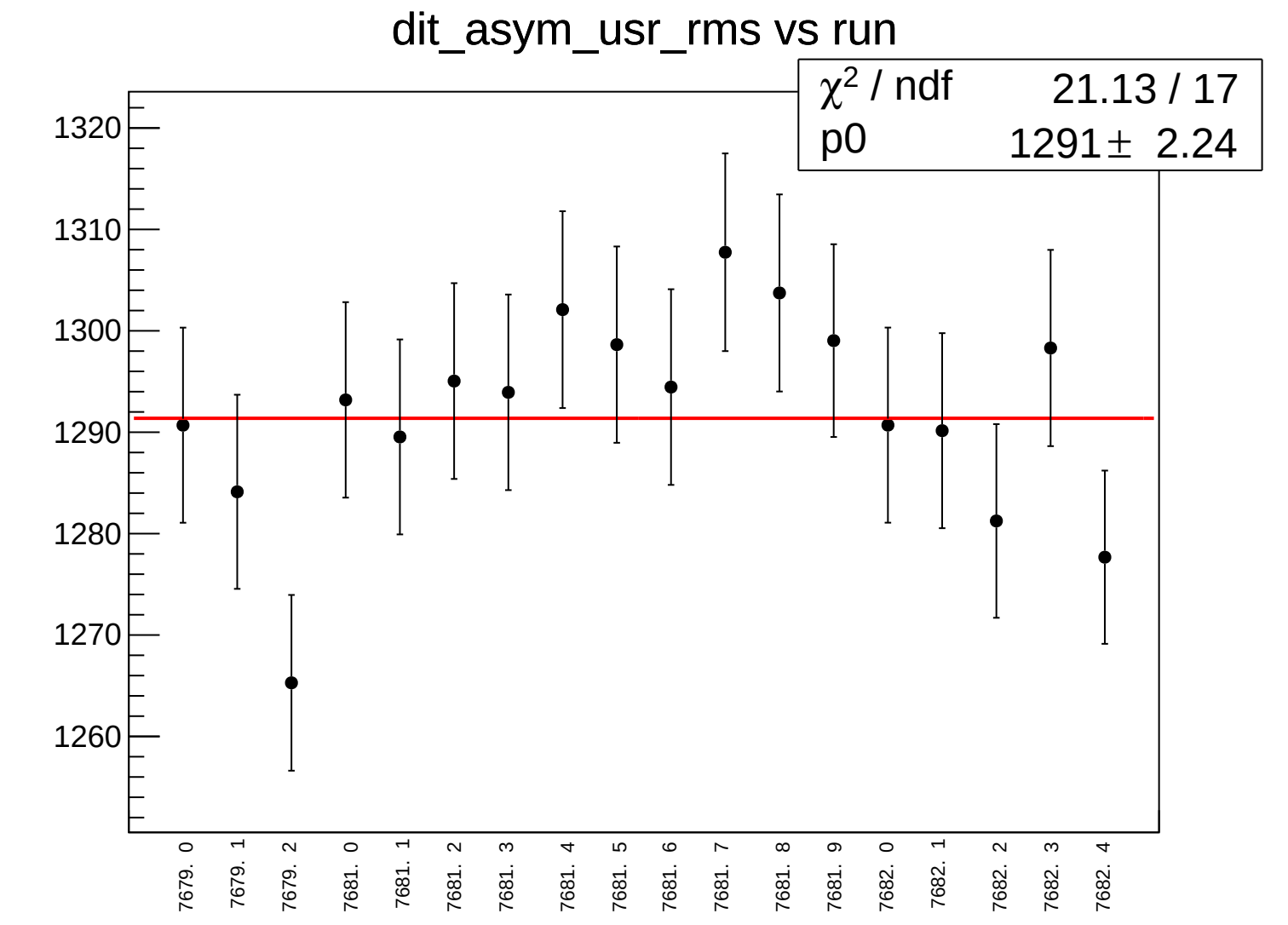

asym_usl_mean vs run
×10^3
χ^2 / ndf 19.03 / 17
p0 −3197 ± 6353
100
80
60
40
20
0
−20
−40
−60
−80
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −48.99
Std Dev 59.84
2
1.5
1
0.5
0
−0.5
−1
−1.5

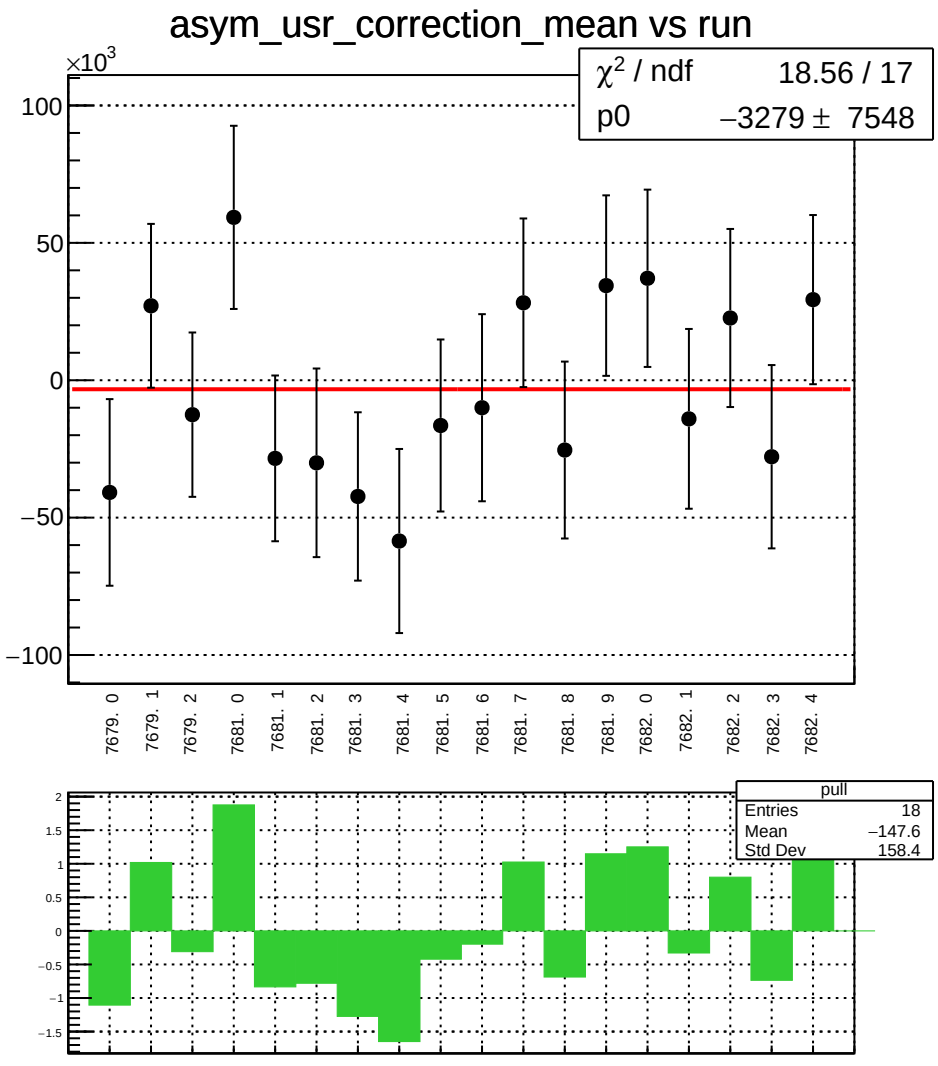

pull1D
Entries 18
Mean 0.01213
Std Dev 1.028
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

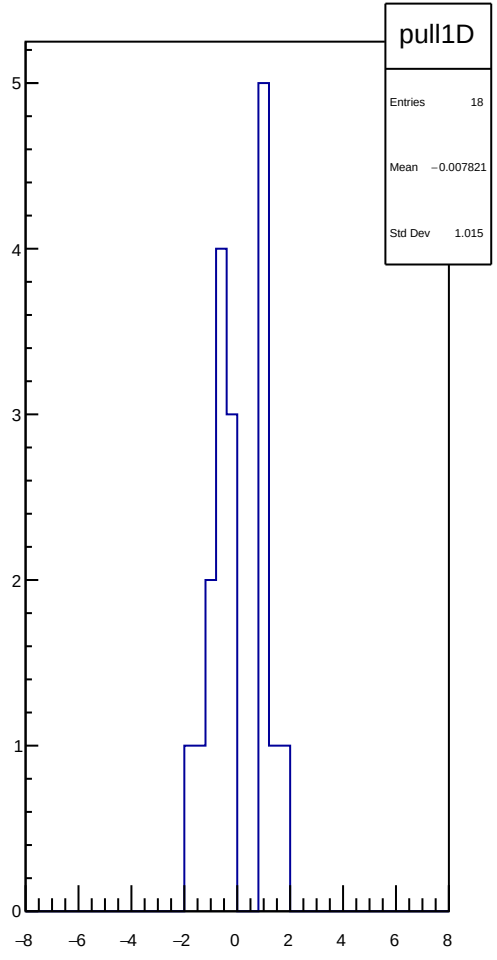

asym_usl_rms vs run
χ² / ndf 732.9 / 17
p0 2587 ± 4.493
2800
2700
2600
2500
2400
2300
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

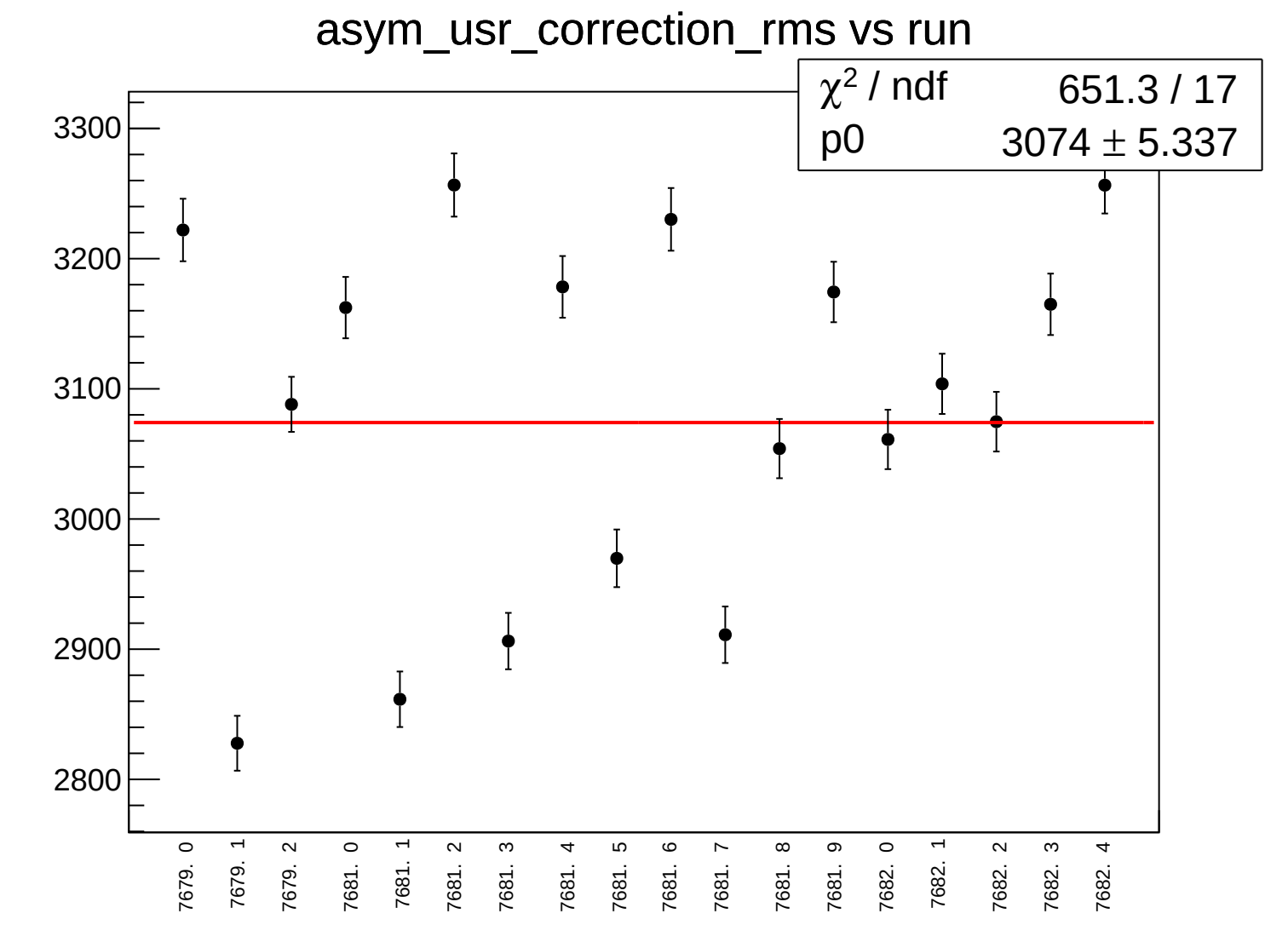

dit_asym_usr_mean vs run
χ² / ndf 16.5 / 17
p0 5447 ± 3168
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −54.81
Std Dev 70.97
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

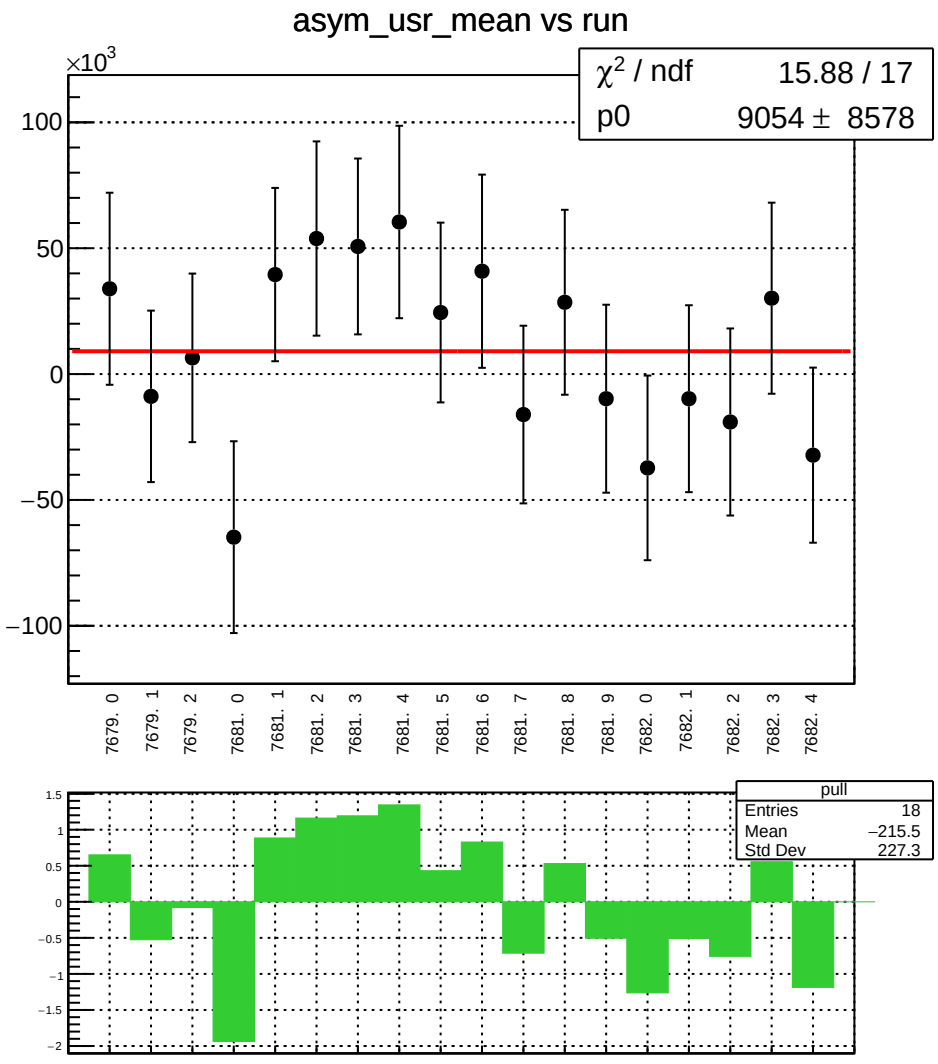

pull1D
Entries 18
Mean 0.01006
Std Dev 0.9575
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

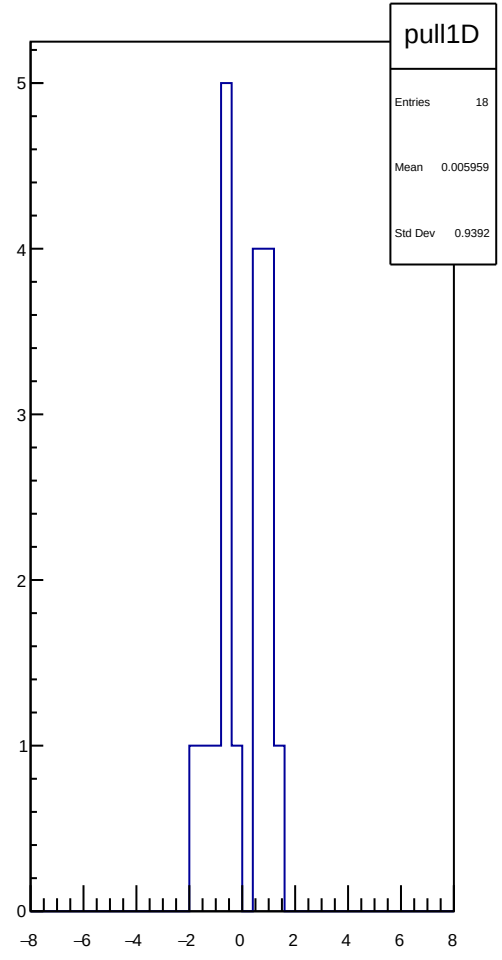

dit_asym_usr_rms vs run
χ^2 / ndf 21.13 / 17
p0 1291 ± 2.24
1320
1310
1300
1290
1280
1270
1260
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

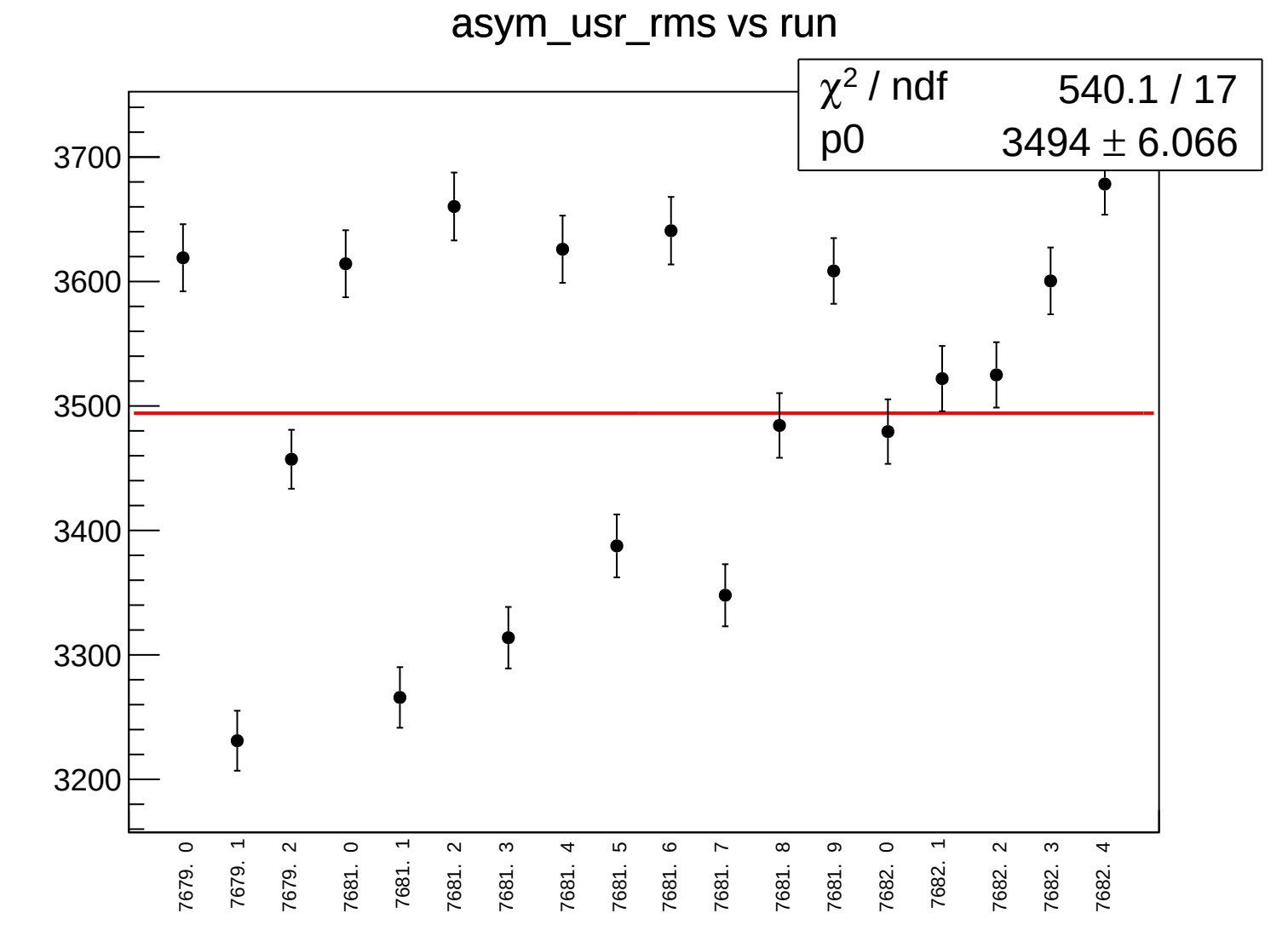

asym_usr_correction_mean vs run
×10^3
χ² / ndf 18.56 / 17
p0 −3279 ± 7548
100
50
0
−50
−100
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −147.6
Std Dev 158.4
2
1.5
1
0.5
0
−0.5
−1
−1.5

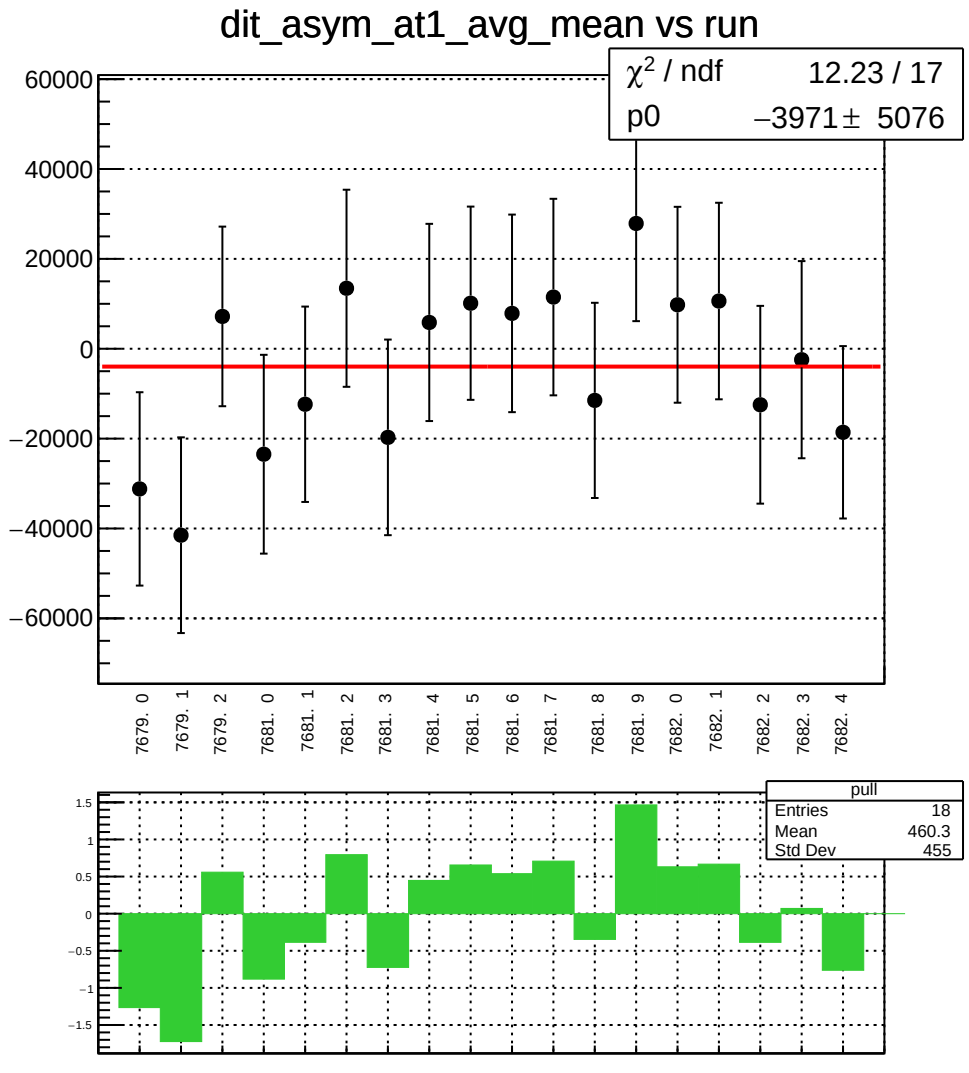

pull1D
Entries 18
Mean −0.007821
Std Dev 1.015
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

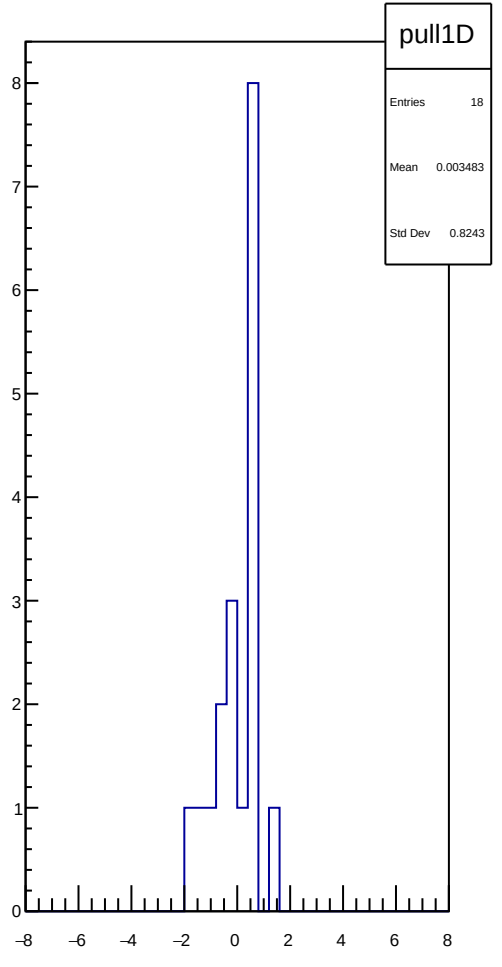

asym_usr_correction_rms vs run
χ² / ndf 651.3 / 17
p0 3074 ± 5.337
3300
3200
3100
3000
2900
2800
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

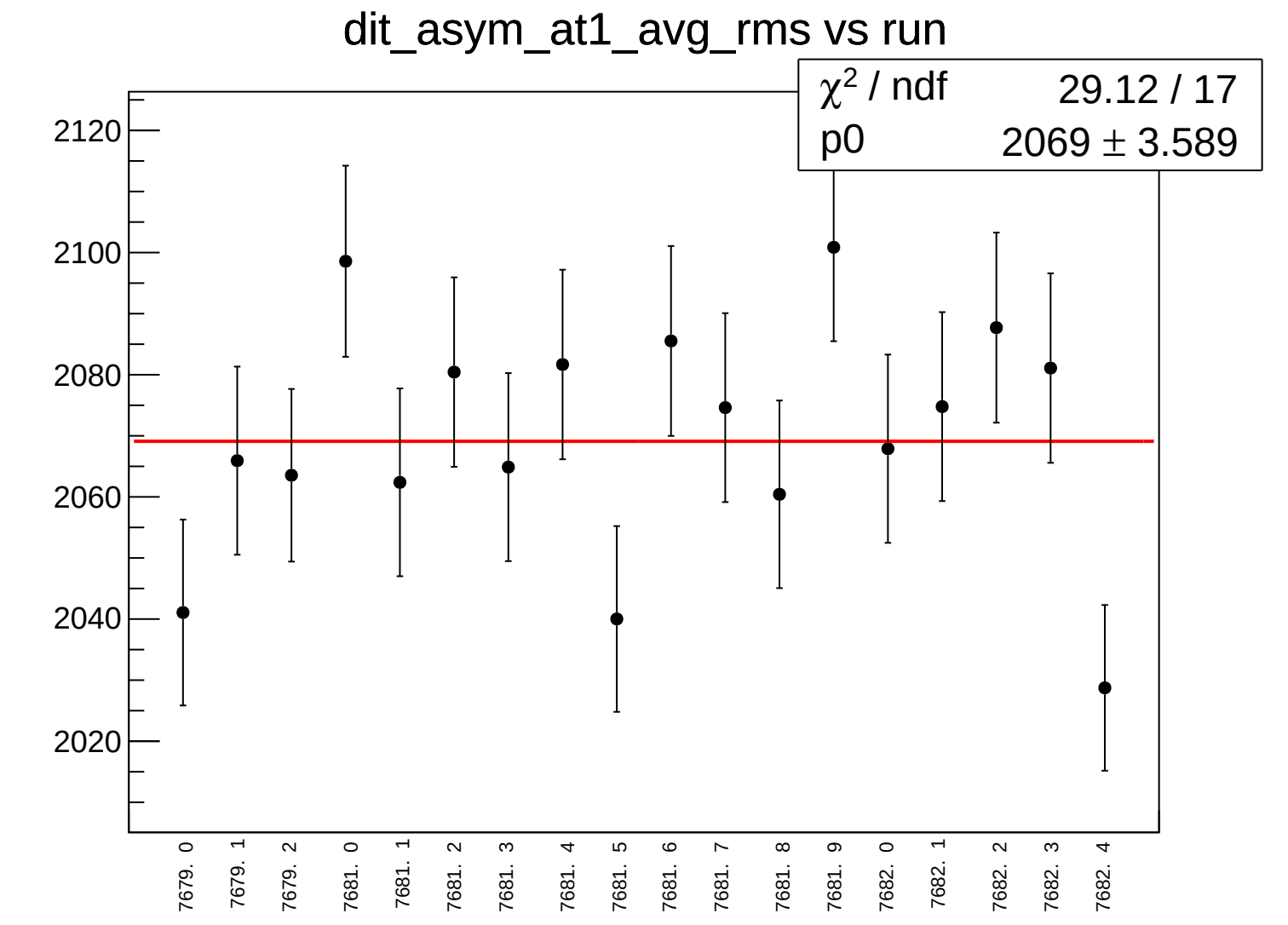

asym_usr_mean vs run
×10^3
χ² / ndf 15.88 / 17
p0 9054 ± 8578
100
50
0
−50
−100
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −215.5
Std Dev 227.3
1.5
1
0.5
0
−0.5
−1
−1.5
−2

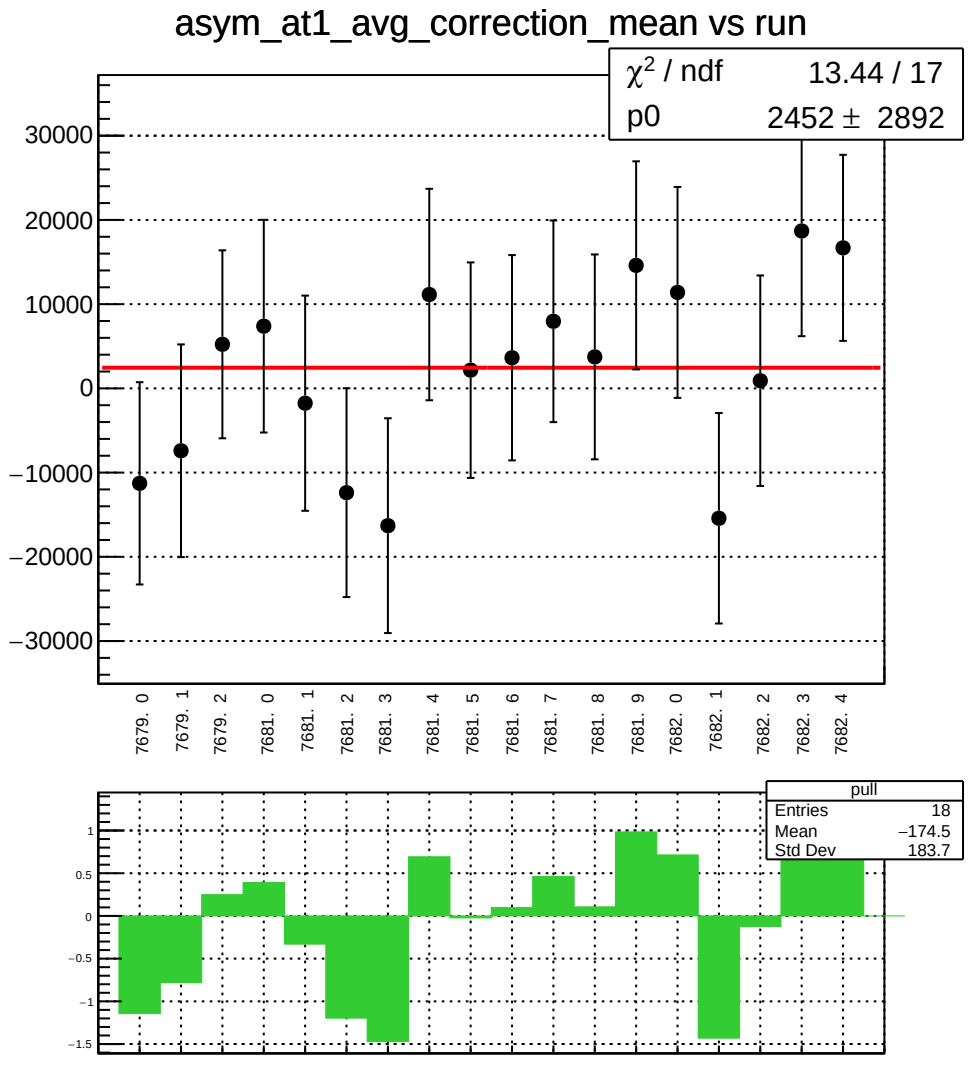

pull1D
Entries 18
Mean 0.005959
Std Dev 0.9392
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

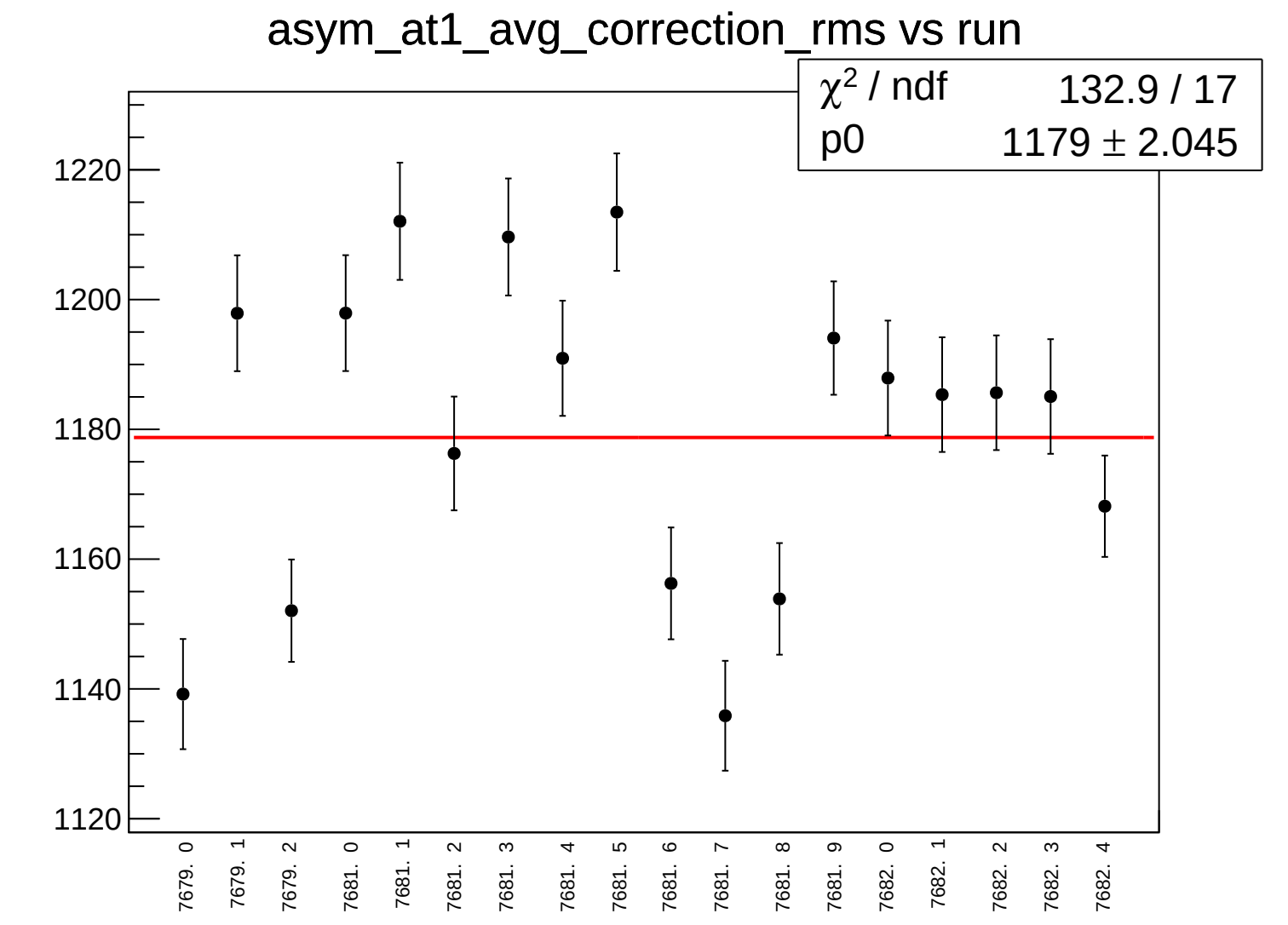

asym_usr_rms vs run
χ² / ndf 540.1 / 17
p0 3494 ± 6.066
3700
3600
3500
3400
3300
3200
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

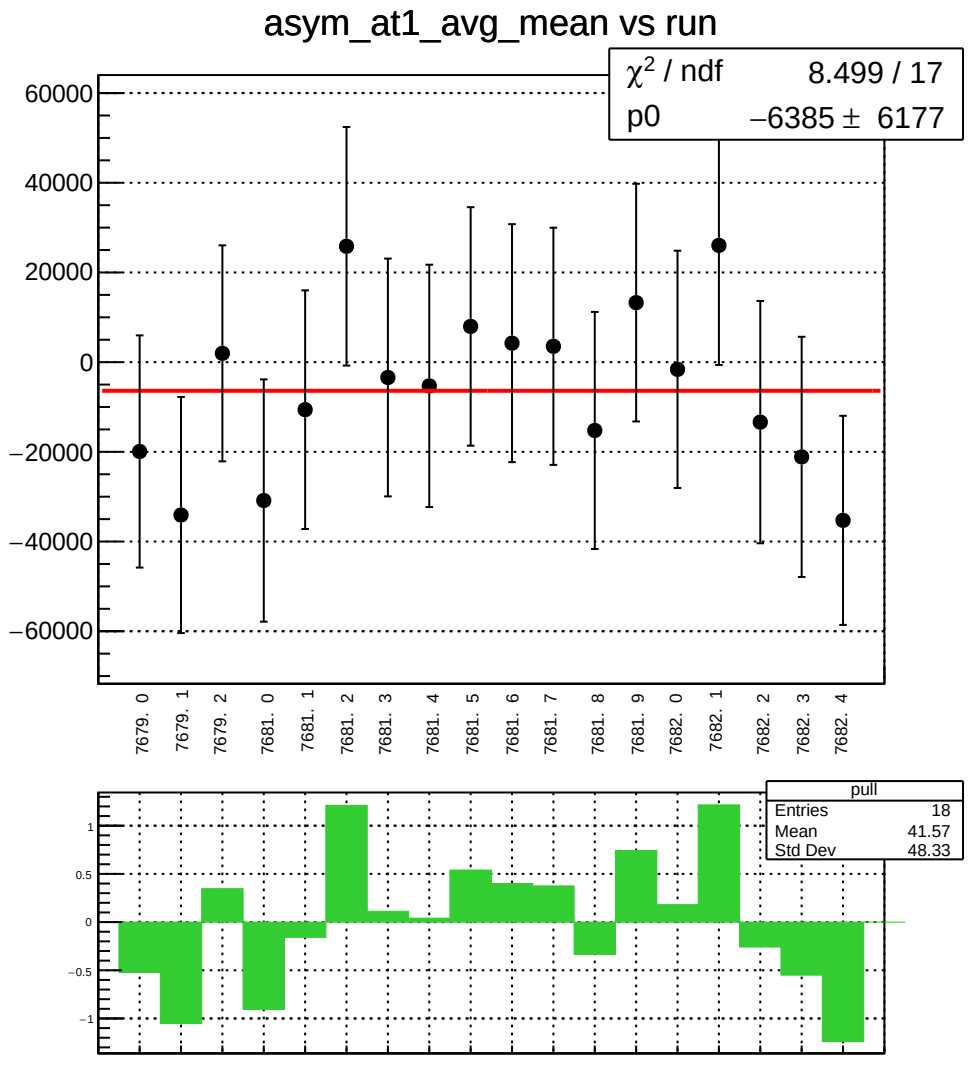

dit_asym_at1_avg_mean vs run
χ² / ndf 12.23 / 17
p0 −3971 ± 5076
60000
40000
20000
0
−20000
−40000
−60000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 460.3
Std Dev 455
1.5
1
0.5
0
−0.5
−1
−1.5

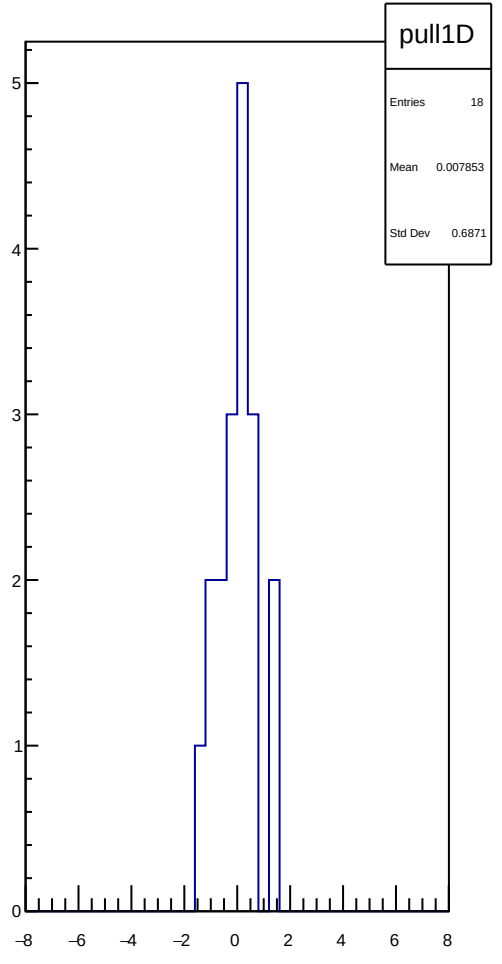

pull1D
Entries 18
Mean 0.003483
Std Dev 0.8243
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

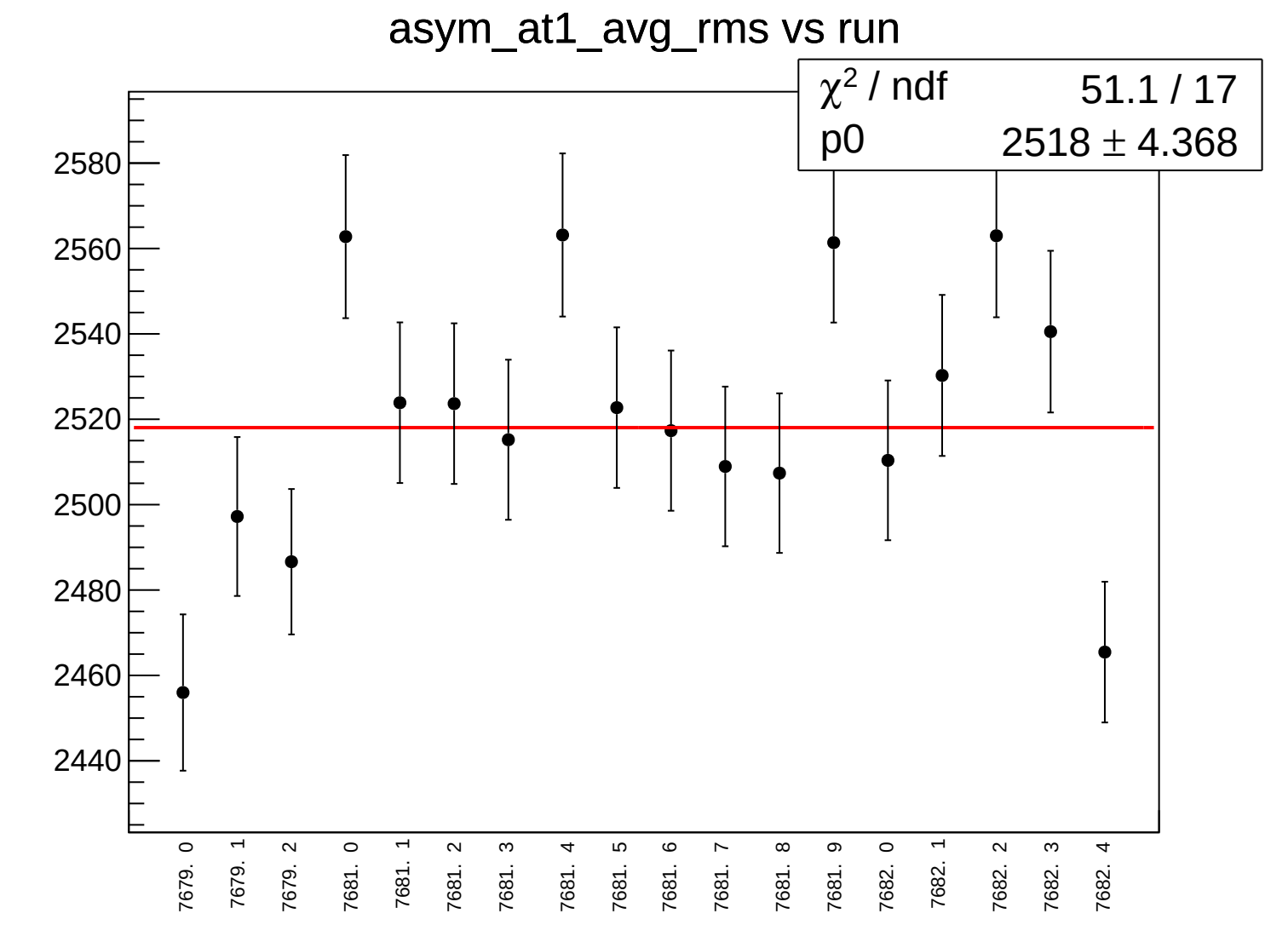

dit_asym_at1_avg_rms vs run
χ² / ndf 29.12 / 17
p0 2069 ± 3.589
2120
2100
2080
2060
2040
2020
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

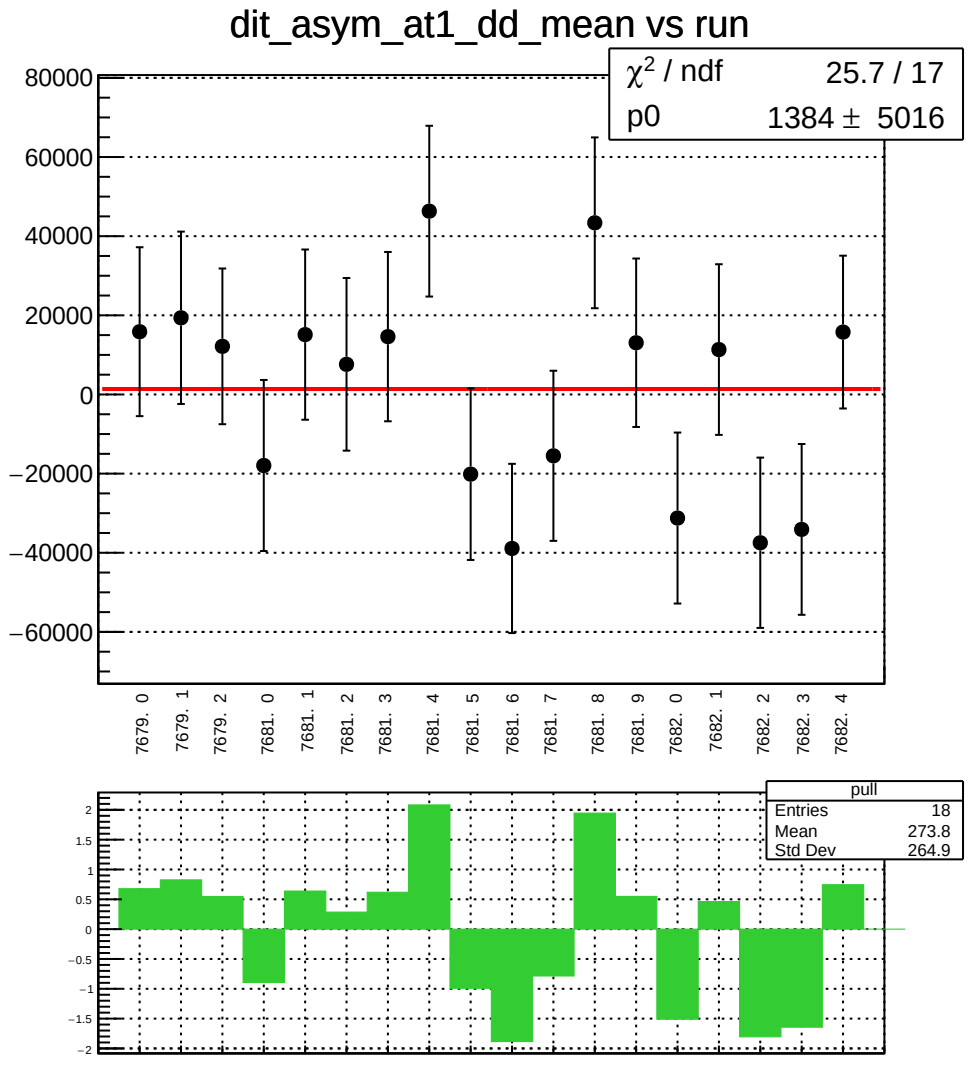

asym_at1_avg_correction_mean vs run
χ² / ndf 13.44 / 17
p0 2452 ± 2892
30000
20000
10000
0
−10000
−20000
−30000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −174.5
Std Dev 183.7
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 18
Mean −0.01205
Std Dev 0.8639
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

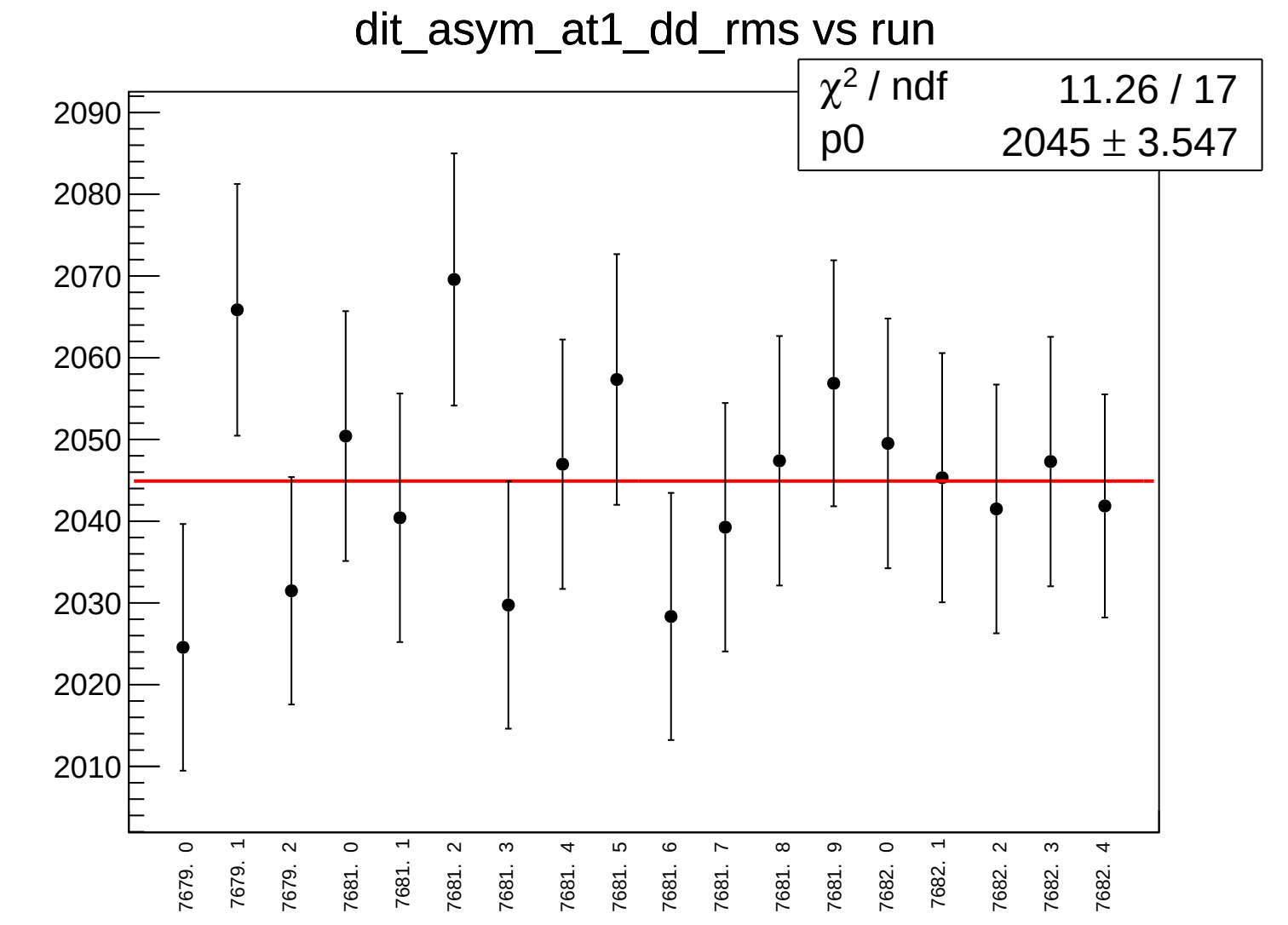

asym_at1_avg_correction_rms vs run
χ² / ndf 132.9 / 17
p0 1179 ± 2.045
1220
1200
1180
1160
1140
1120
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

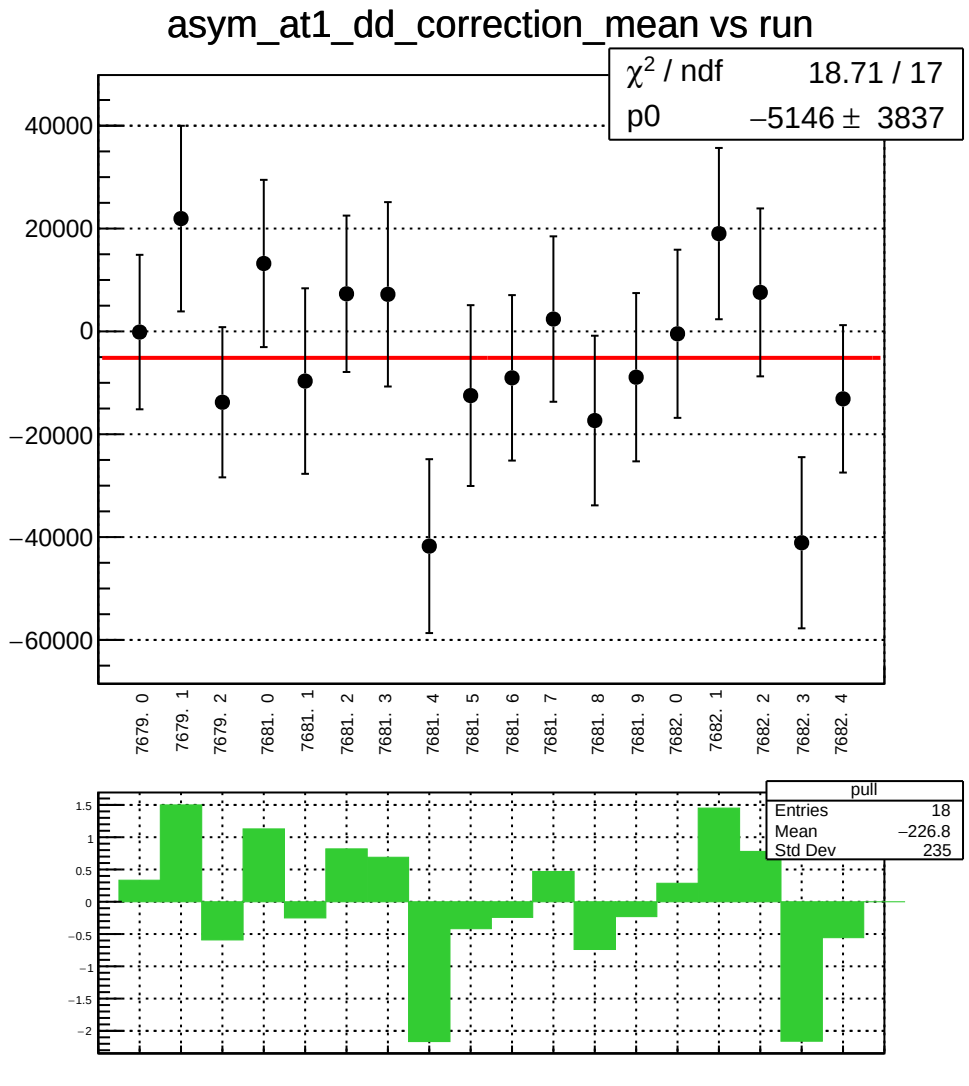

asym_at1_avg_mean vs run
χ² / ndf 8.499 / 17
p0 −6385 ± 6177
60000
40000
20000
0
−20000
−40000
−60000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 41.57
Std Dev 48.33
1
0.5
0
−0.5
−1

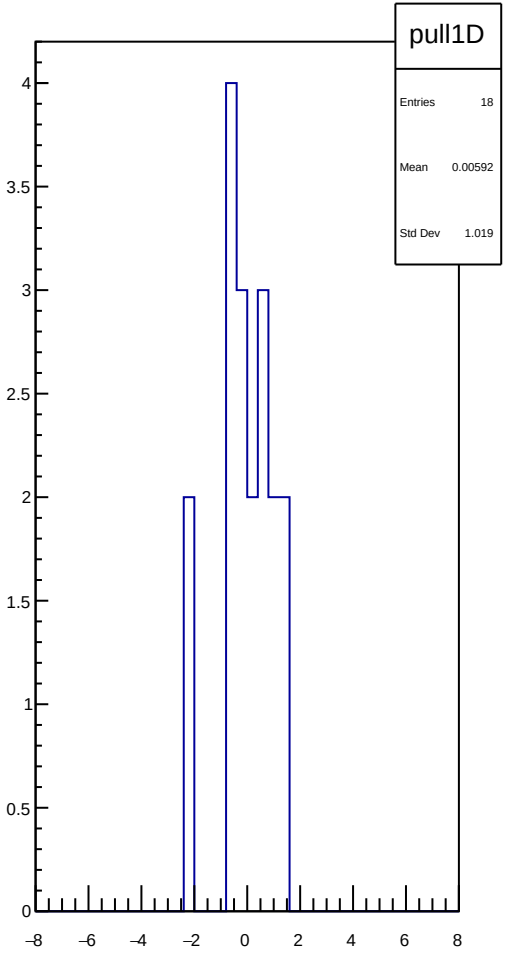

pull1D
Entries 18
Mean 0.007853
Std Dev 0.6871
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

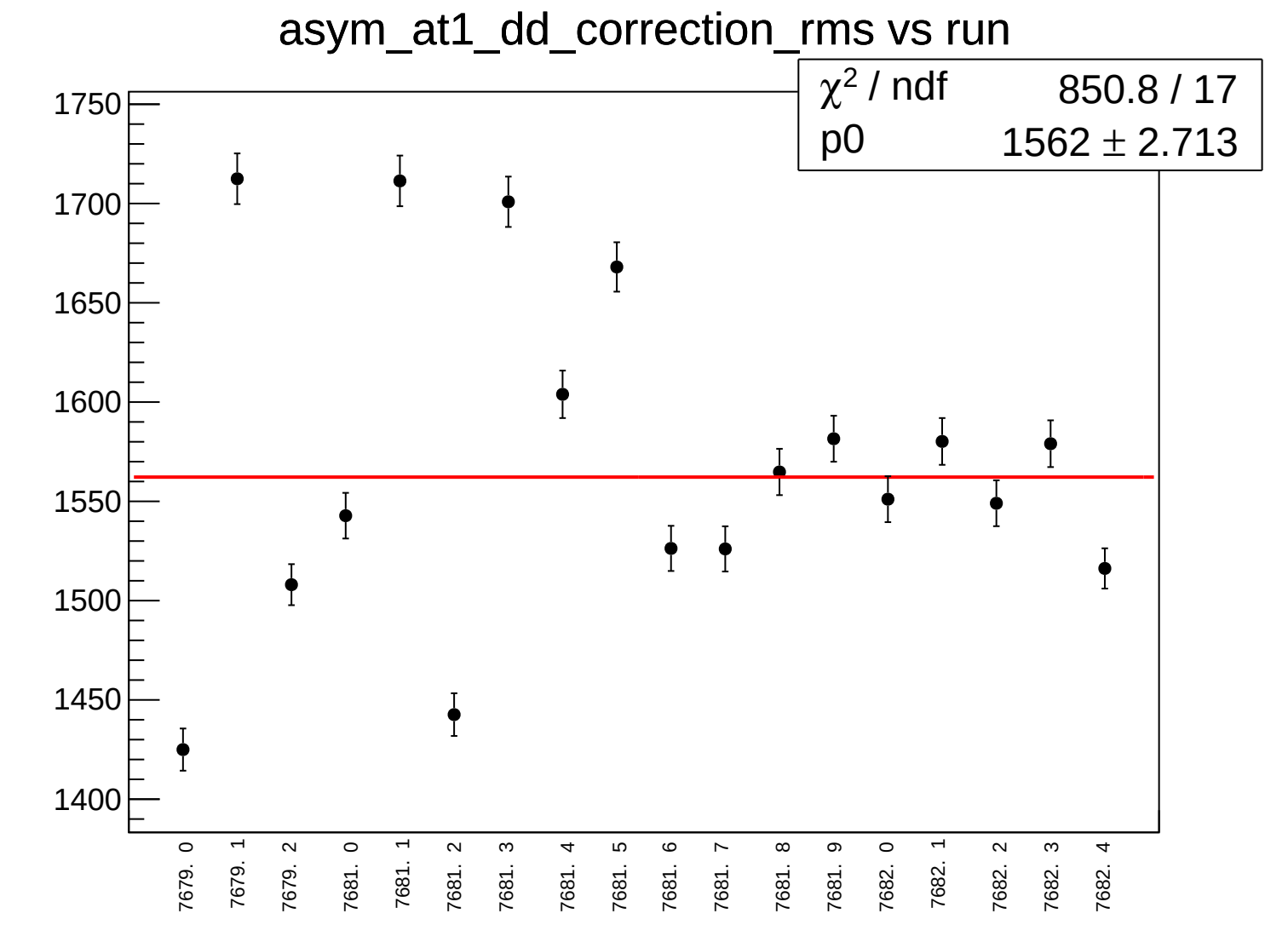

asym_at1_avg_rms vs run
χ² / ndf 51.1 / 17
p0 2518 ± 4.368
2580
2560
2540
2520
2500
2480
2460
2440
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

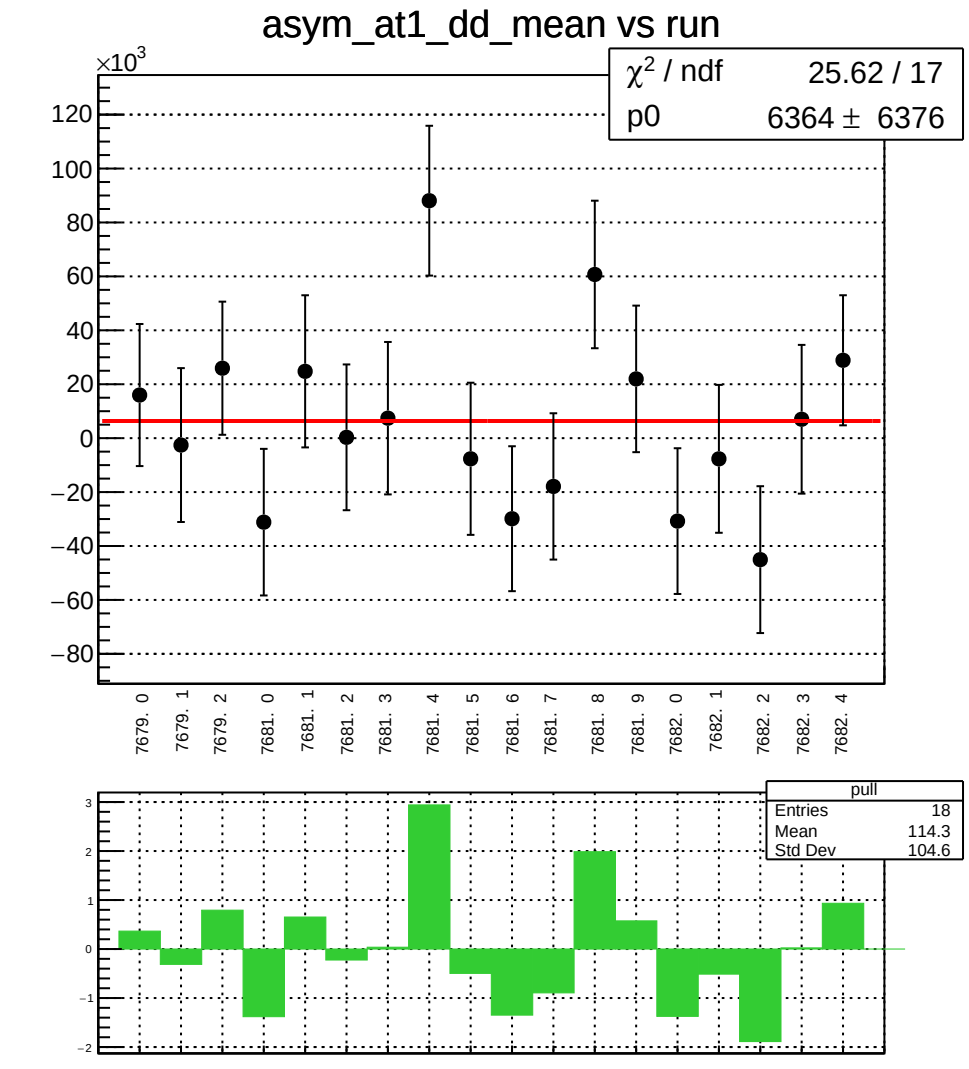

dit_asym_at1_dd_mean vs run
χ² / ndf 25.7 / 17
p0 1384 ± 5016
80000
60000
40000
20000
0
−20000
−40000
−60000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 273.8
Std Dev 264.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 18
Mean −0.007546
Std Dev 1.195
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

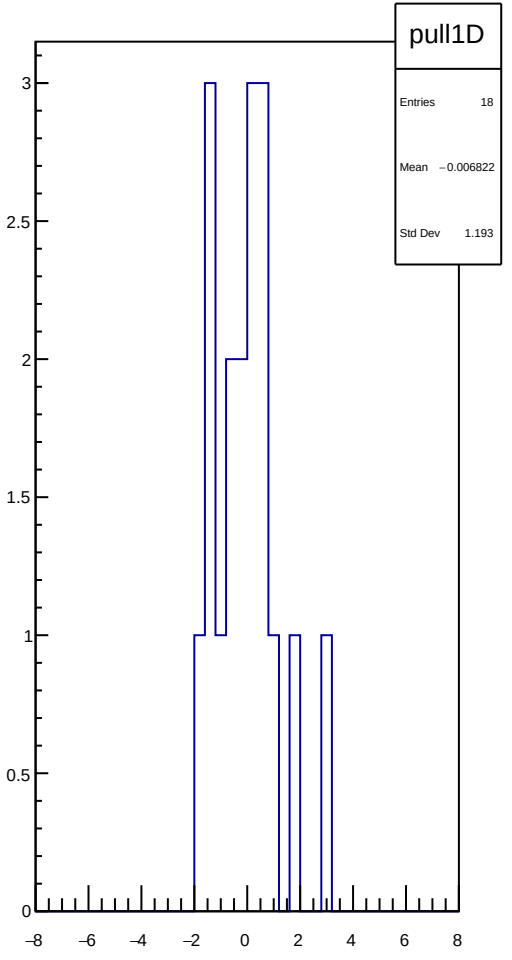

dit_asym_at1_dd_rms vs run
χ² / ndf 11.26 / 17
p0 2045 ± 3.547
2090
2080
2070
2060
2050
2040
2030
2020
2010
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

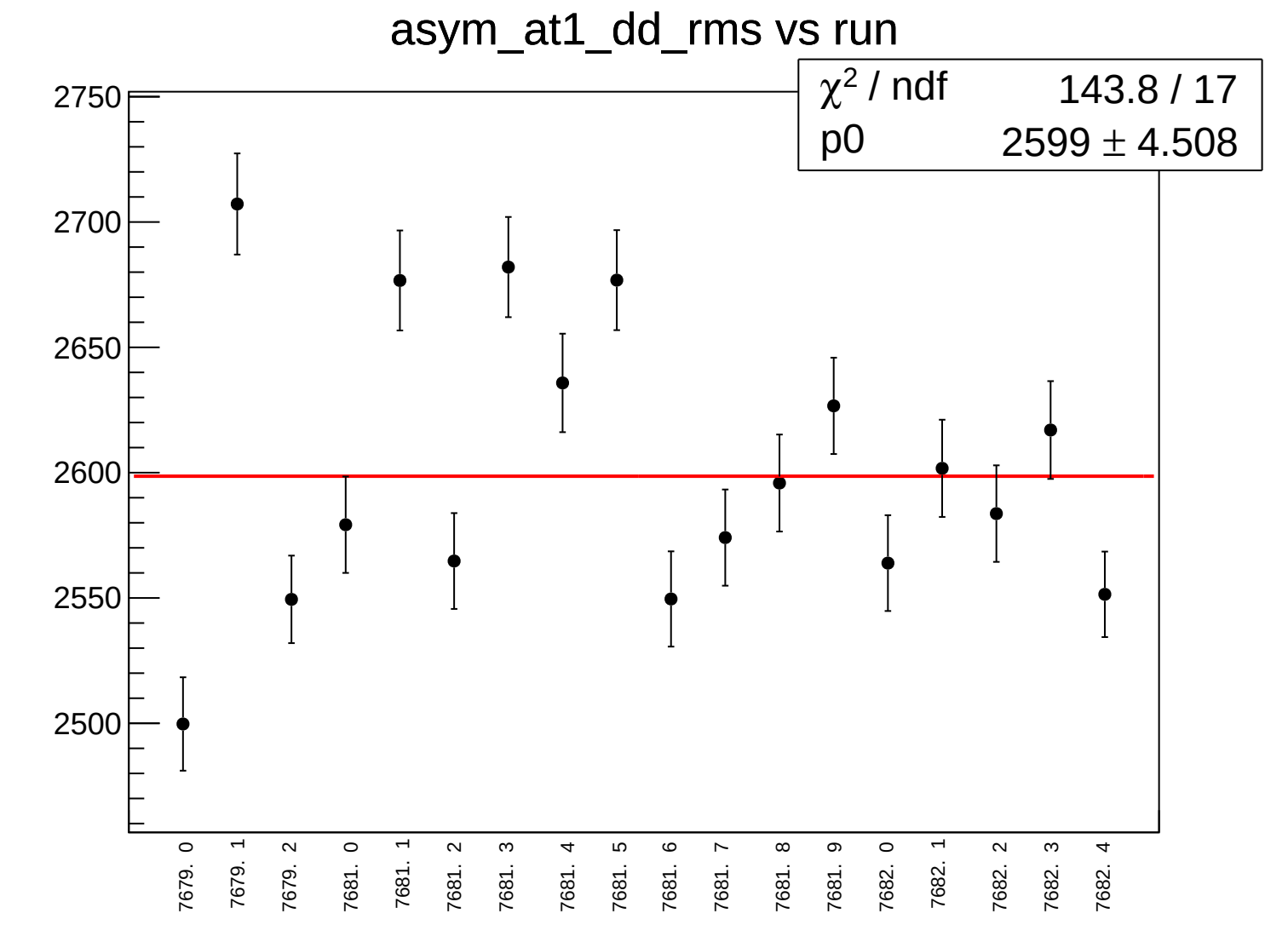

asym_at1_dd_correction_mean vs run
χ² / ndf 18.71 / 17
p0 −5146 ± 3837
40000
20000
0
−20000
−40000
−60000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −226.8
Std Dev 235
1.5
1
0.5
0
−0.5
−1
−1.5
−2

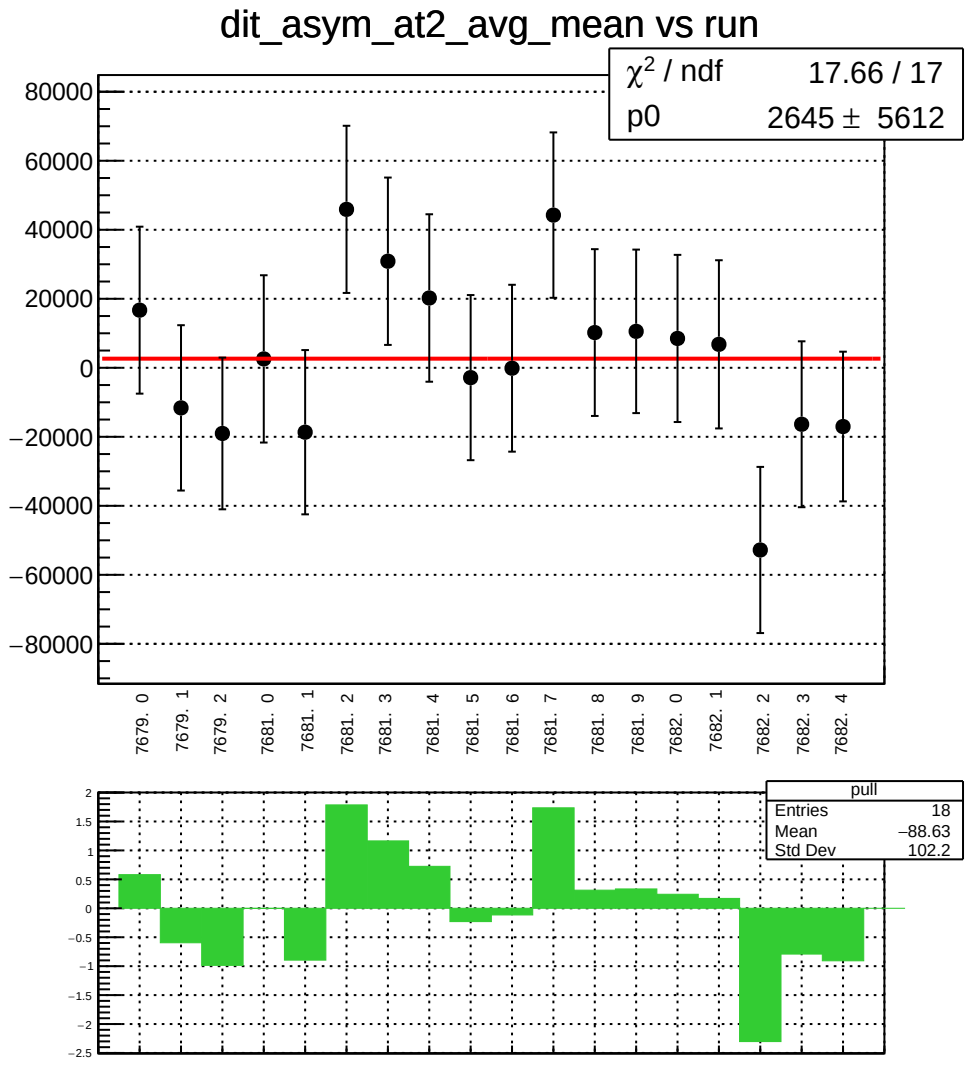

pull1D
Entries 18
Mean 0.00592
Std Dev 1.019
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

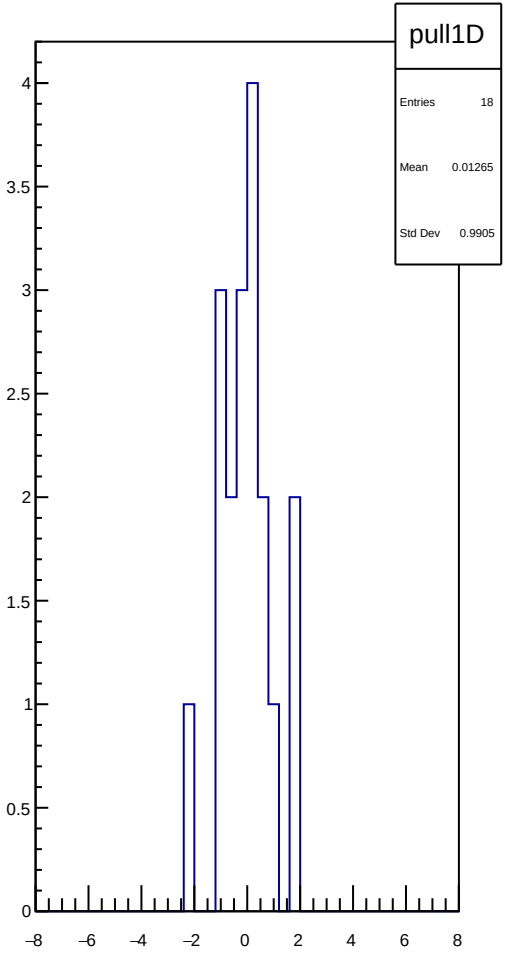

asym_at1_dd_correction_rms vs run
χ² / ndf 850.8 / 17
p0 1562 ± 2.713
1750
1700
1650
1600
1550
1500
1450
1400
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

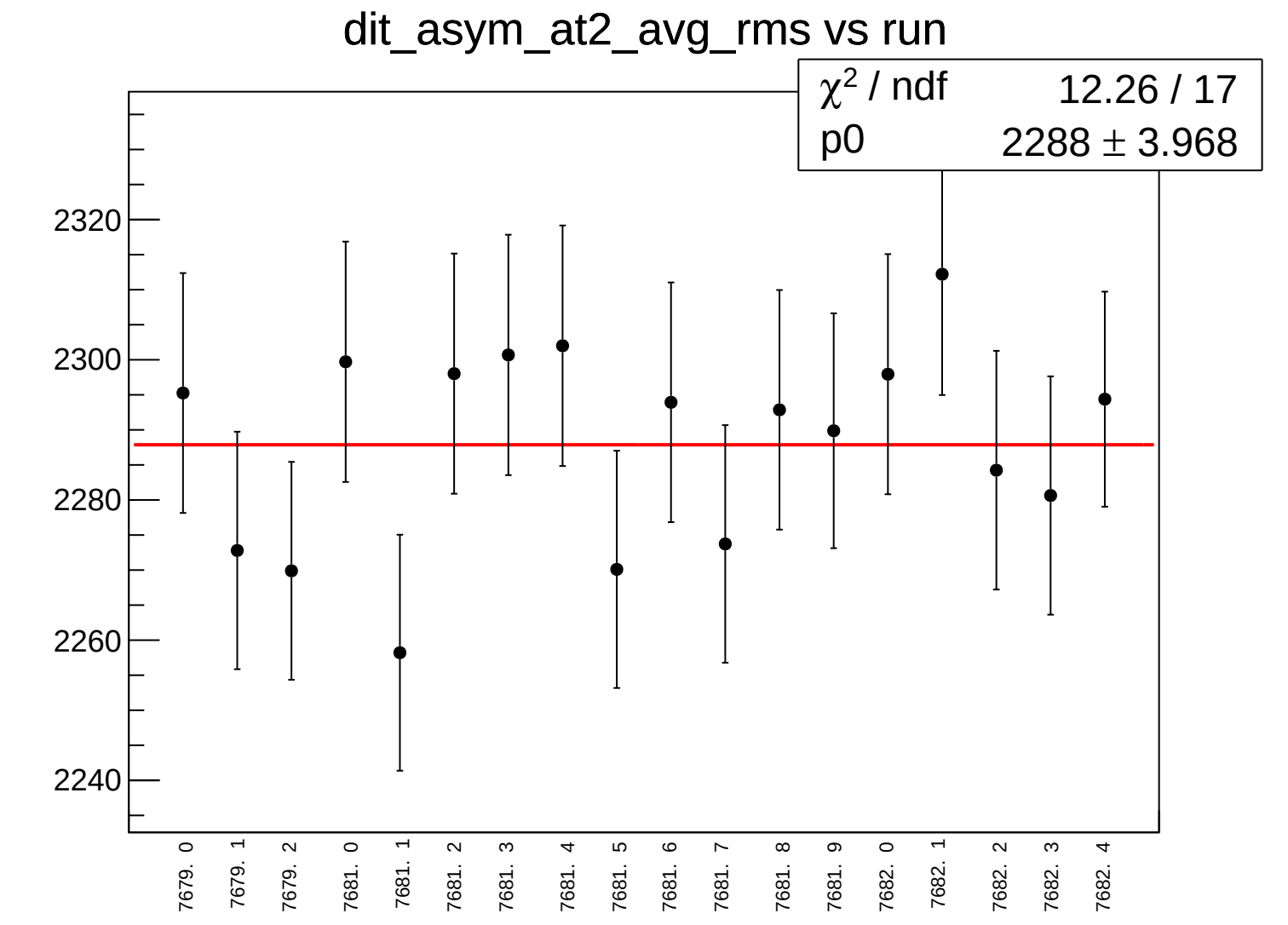

asym_at1_dd_mean vs run
×10^3
χ^2 / ndf 25.62 / 17
p0 6364 ± 6376
120
100
80
60
40
20
0
−20
−40
−60
−80
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 114.3
Std Dev 104.6
3
2
1
0
−1
−2

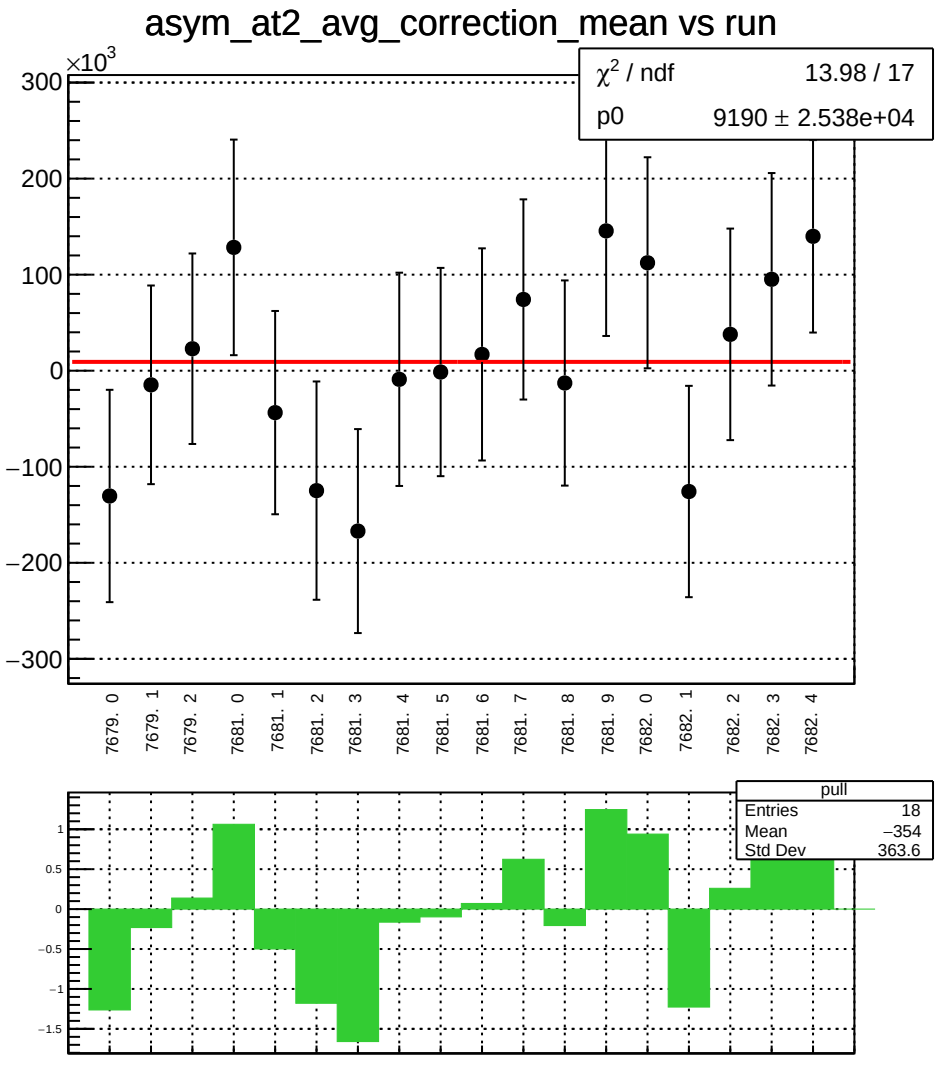

pull1D
Entries 18
Mean −0.006822
Std Dev 1.193
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

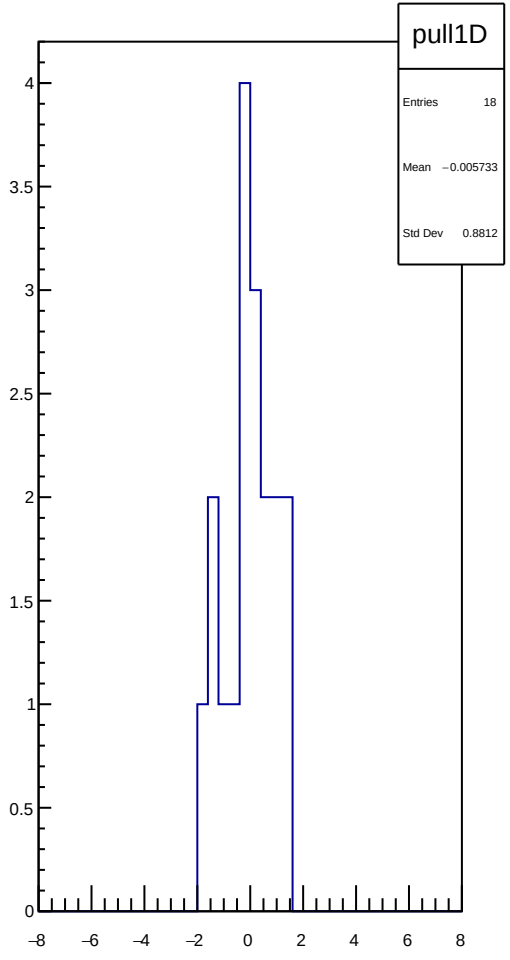

asym_at1_dd_rms vs run
χ² / ndf 143.8 / 17
p0 2599 ± 4.508
2750
2700
2650
2600
2550
2500
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

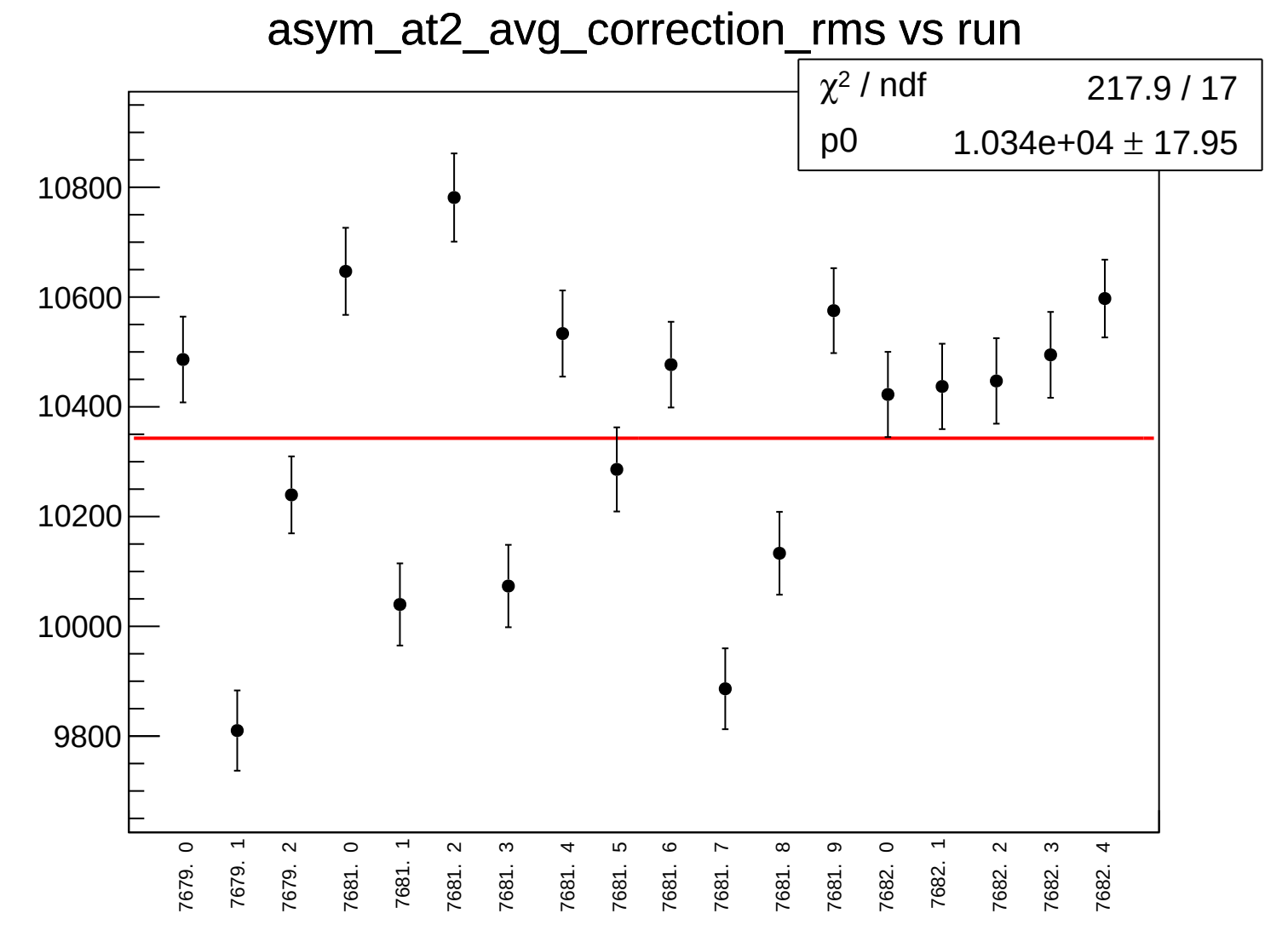

dit_asym_at2_avg_mean vs run
χ² / ndf 17.66 / 17
p0 2645 ± 5612
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −88.63
Std Dev 102.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

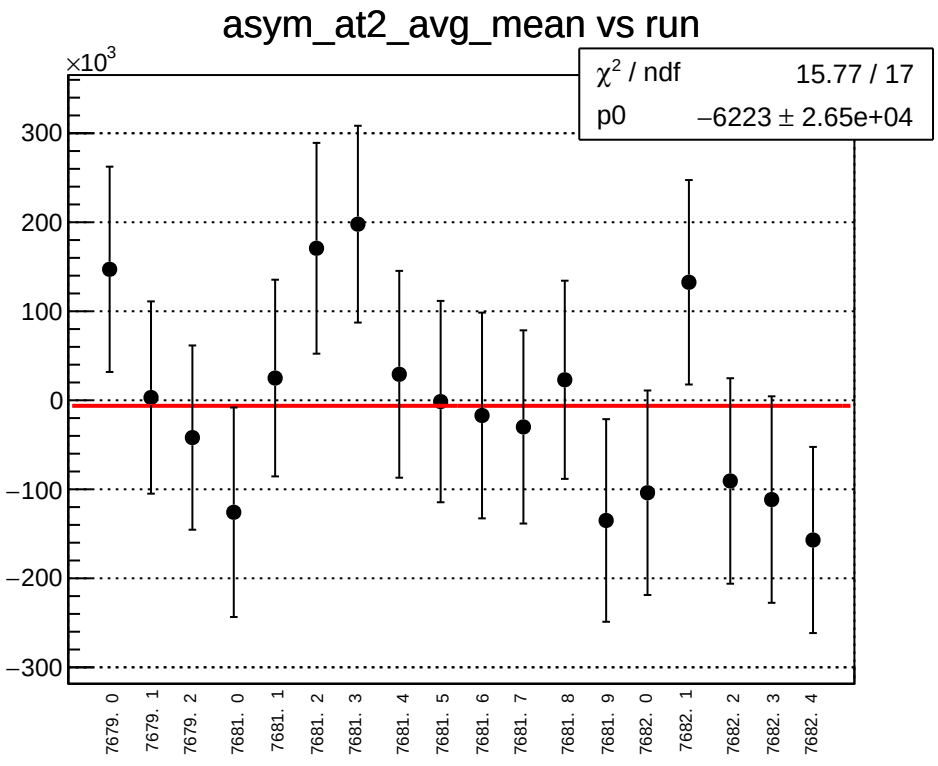

pull1D
Entries 18
Mean 0.01265
Std Dev 0.9905
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

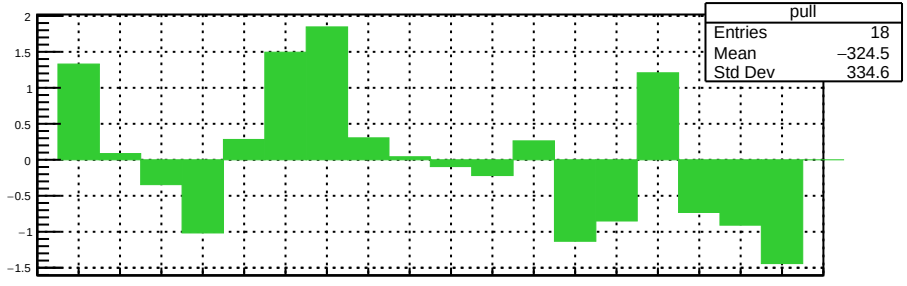

dit_asym_at2_avg_rms vs run
χ² / ndf 12.26 / 17
p0 2288 ± 3.968
2320
2300
2280
2260
2240
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

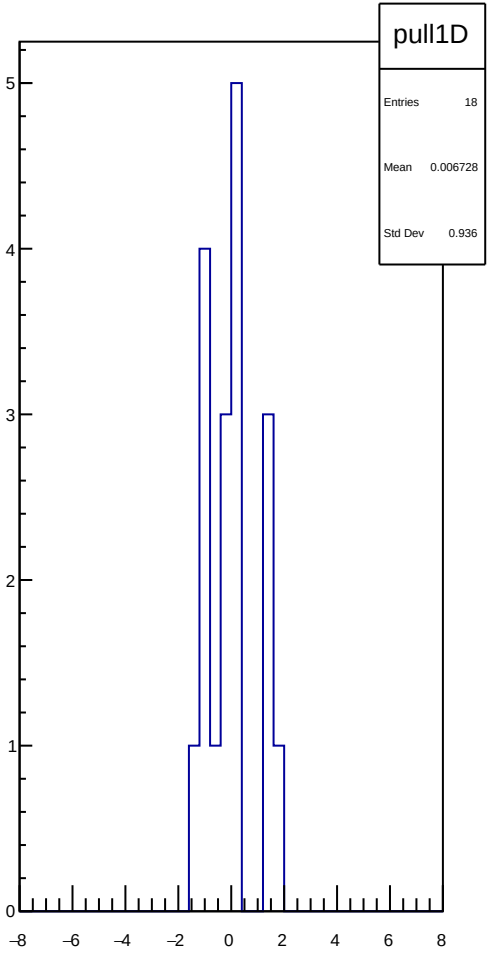

asym_at2_avg_correction_mean vs run
×10^3
χ² / ndf 13.98 / 17
p0 9190 ± 2.538e+04
300
200
100
0
−100
−200
−300
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −354
Std Dev 363.6
1
0.5
0
−0.5
−1
−1.5

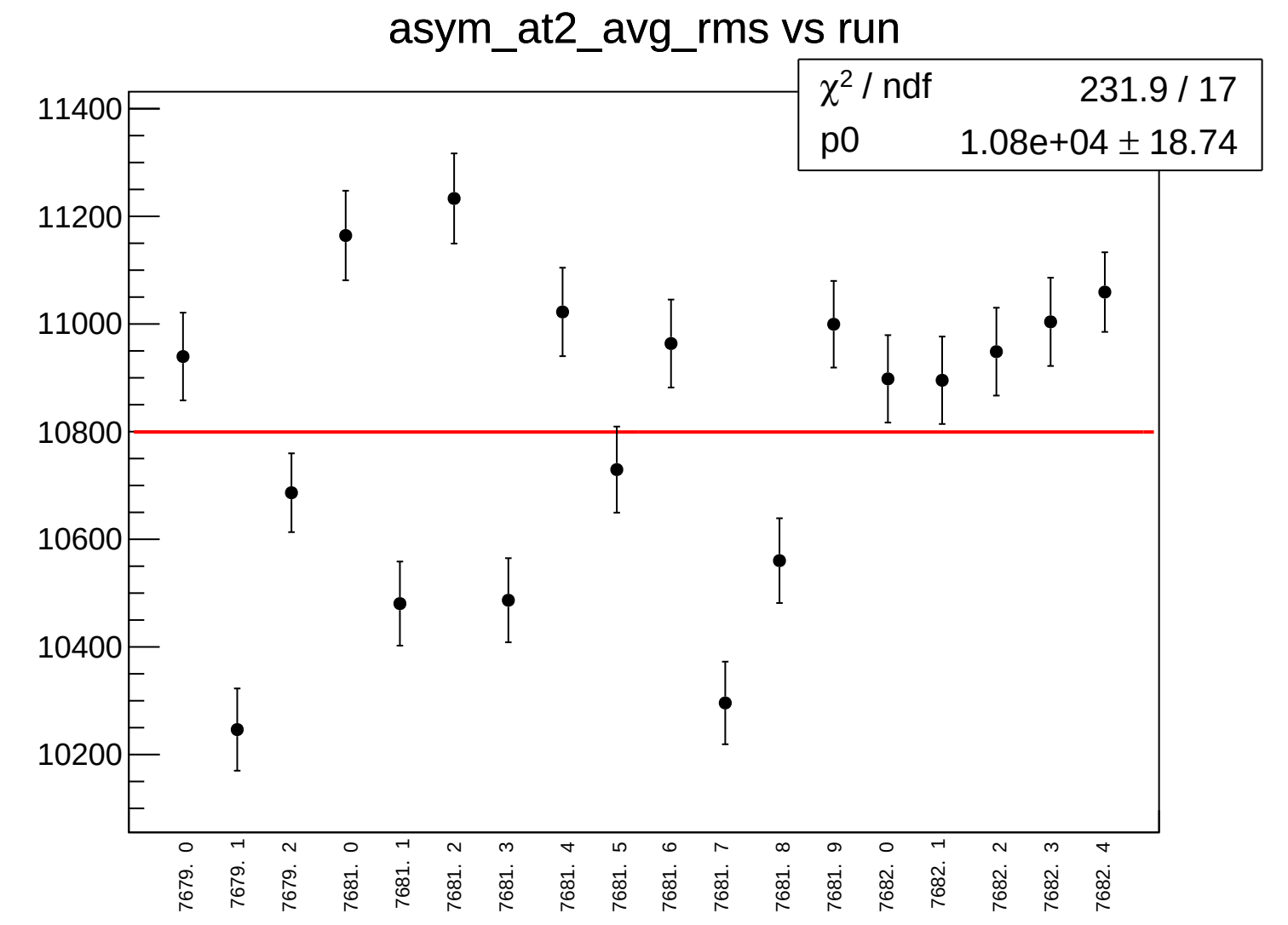

pull1D
Entries 18
Mean −0.005733
Std Dev 0.8812
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

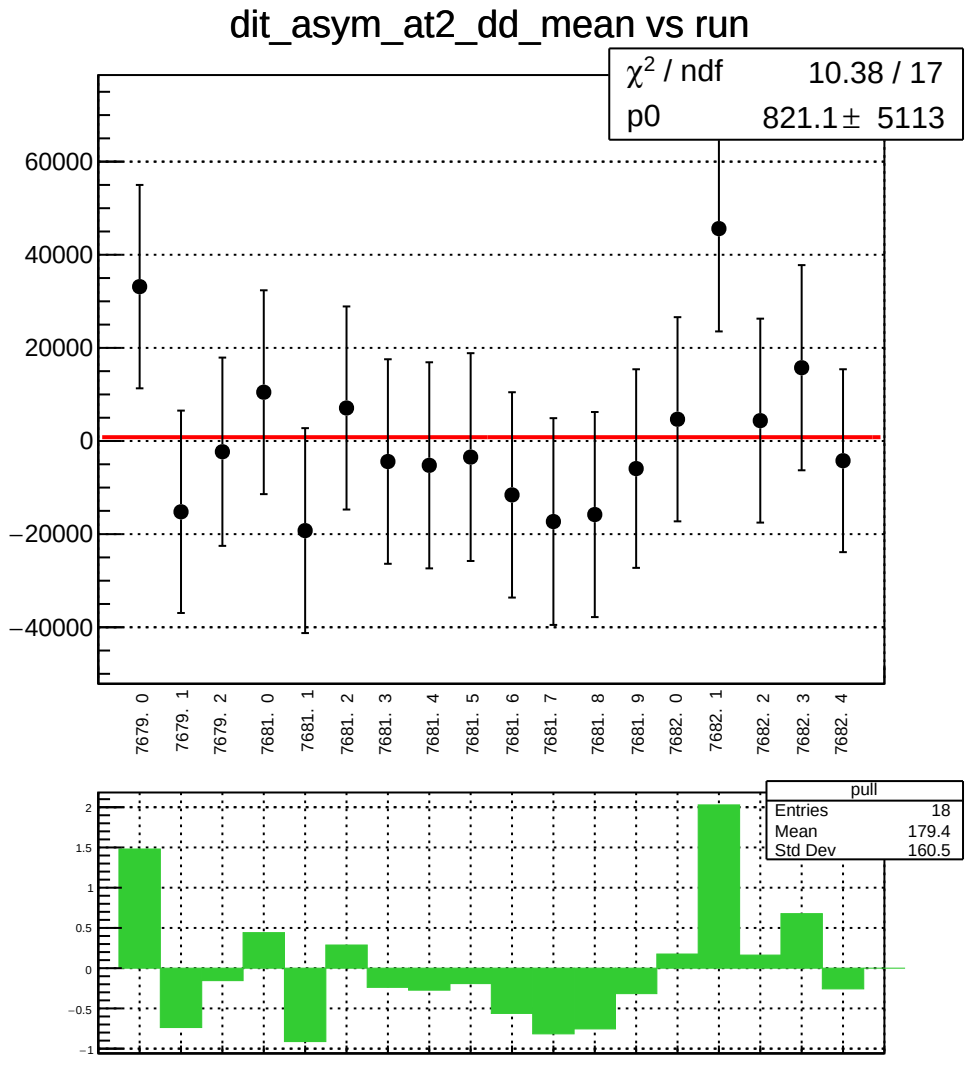

asym_at2_avg_correction_rms vs run
χ² / ndf 217.9 / 17
p0 1.034e+04 ± 17.95
10800
10600
10400
10200
10000
9800
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

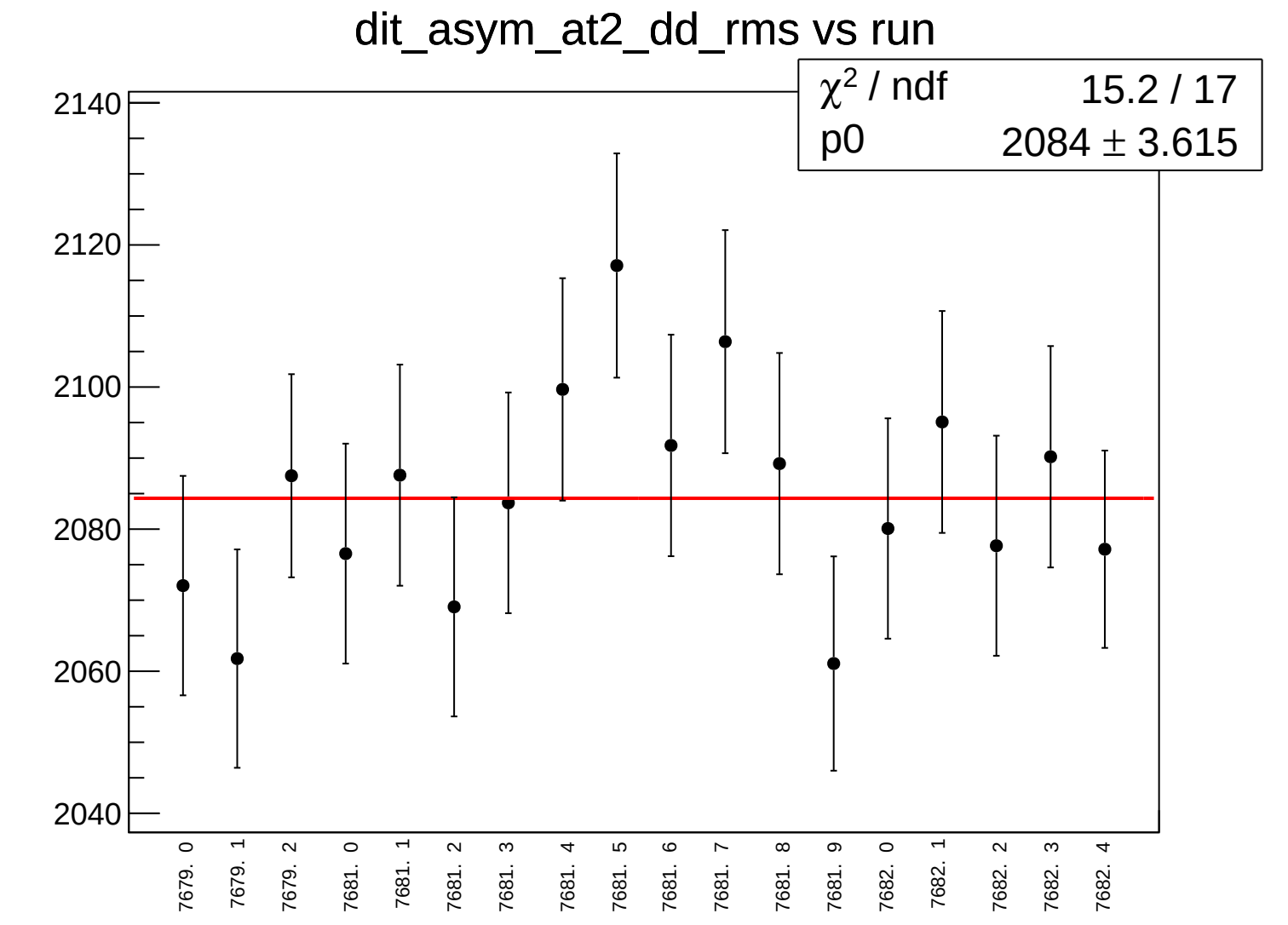

asym_at2_avg_mean vs run
×10^3
χ² / ndf 15.77 / 17
p0 −6223 ± 2.65e+04
300
200
100
0
−100
−200
−300
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

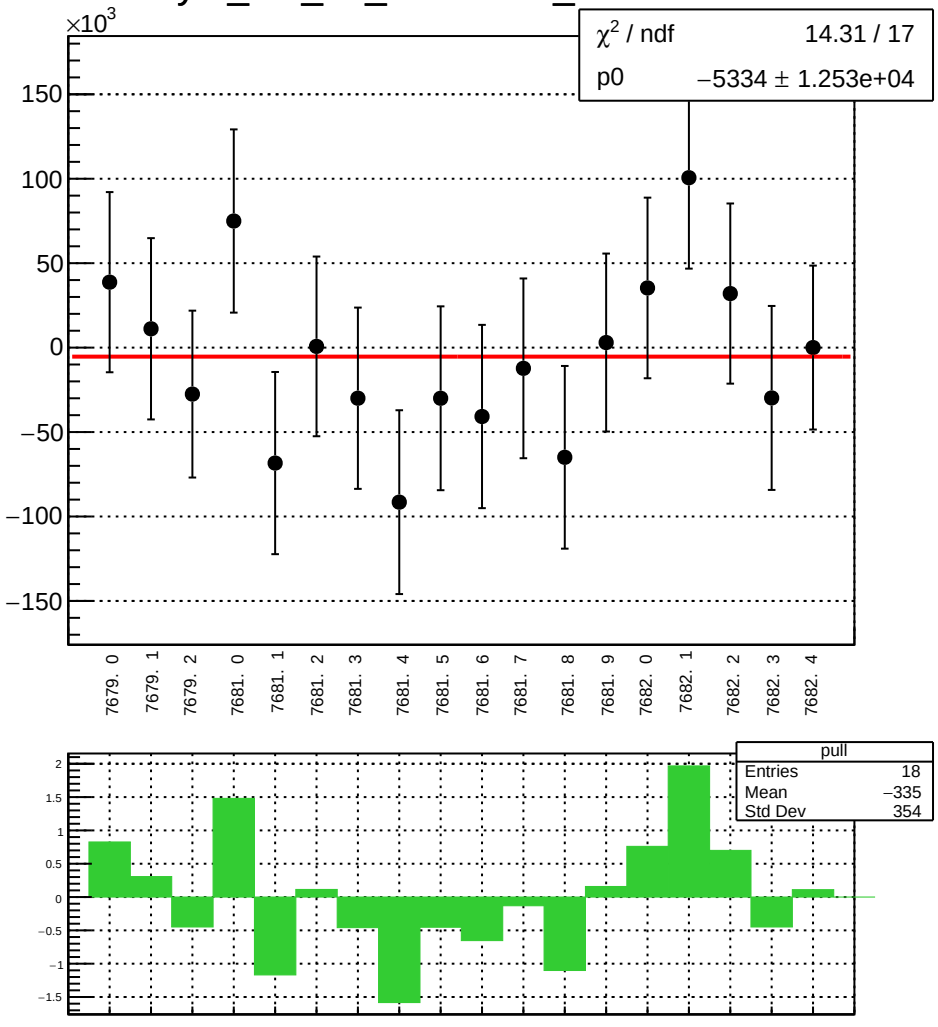

pull
Entries 18
Mean −324.5
Std Dev 334.6
2
1.5
1
0.5
0
−0.5
−1
−1.5

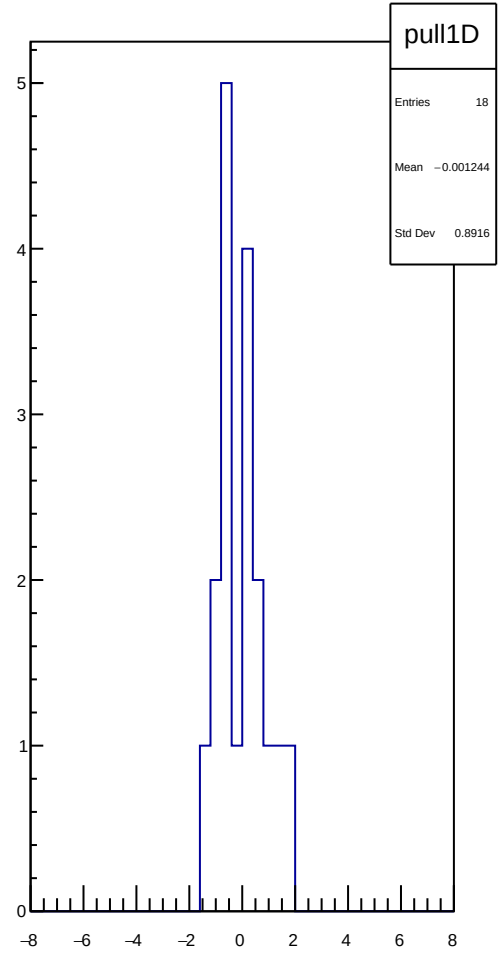

pull1D
Entries 18
Mean 0.006728
Std Dev 0.936
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

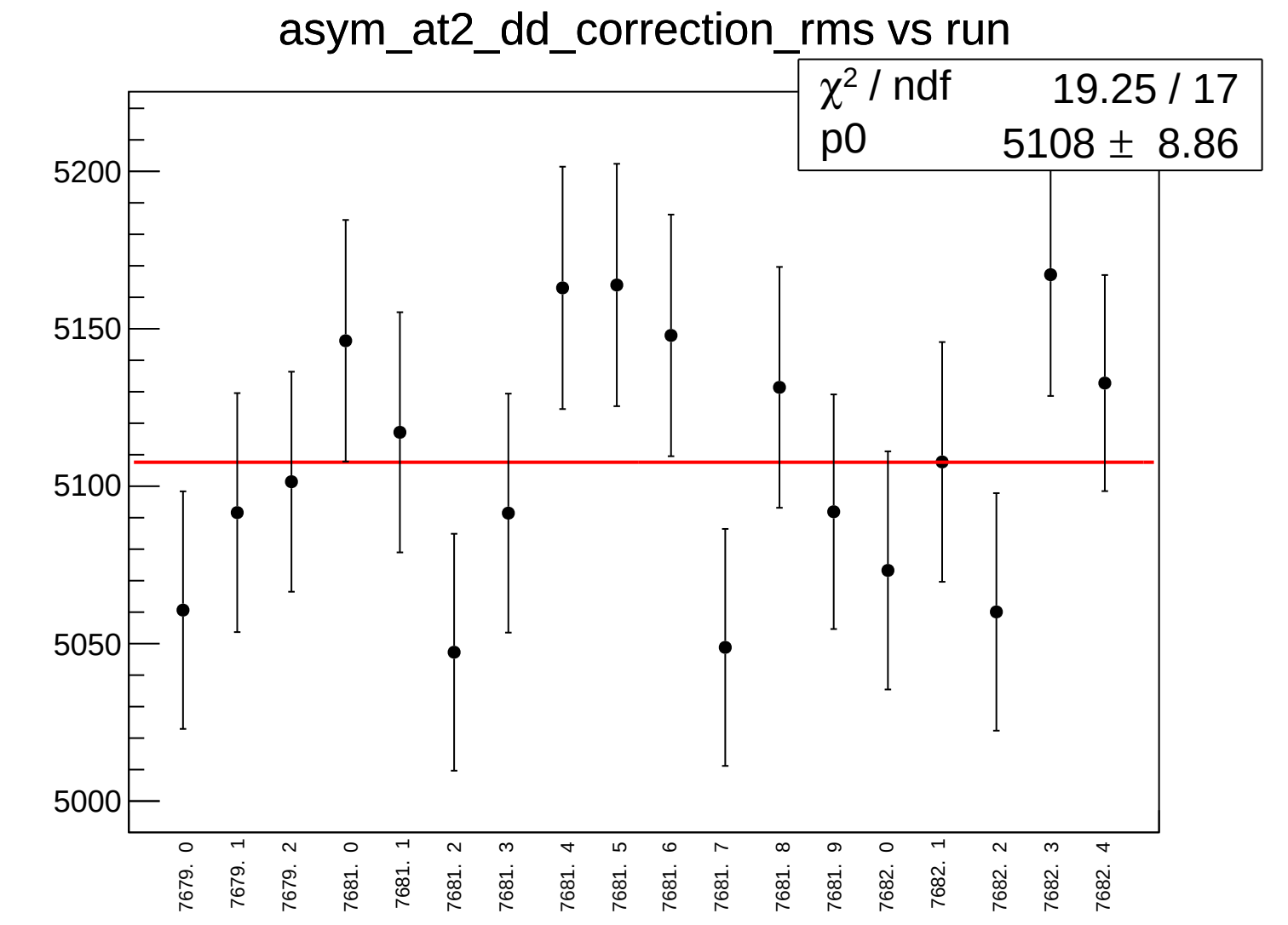

asym_at2_avg_rms vs run
χ² / ndf 231.9 / 17
p0 1.08e+04 ± 18.74
11400
11200
11000
10800
10600
10400
10200
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

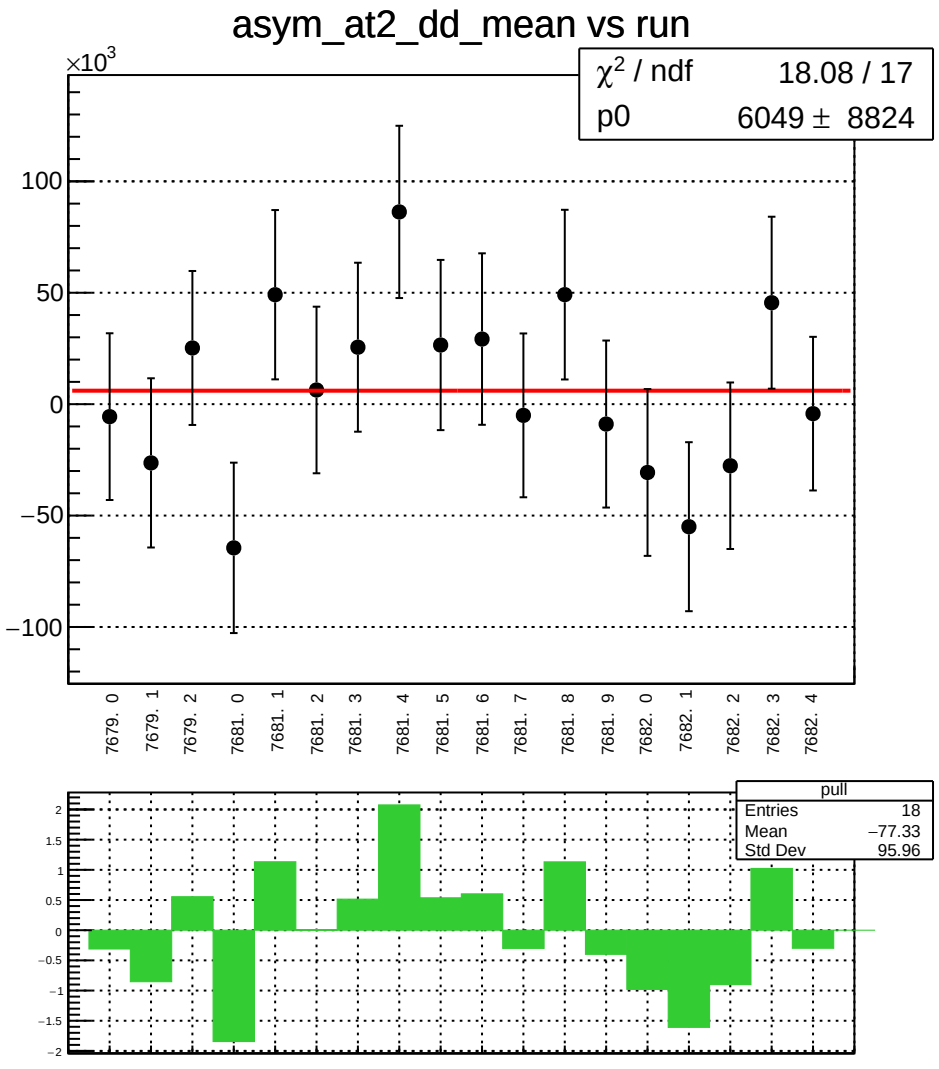

dit_asym_at2_dd_mean vs run
χ² / ndf 10.38 / 17
p0 821.1 ± 5113
60000
40000
20000
0
−20000
−40000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 179.4
Std Dev 160.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 18
Mean 0.002322
Std Dev 0.7595
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

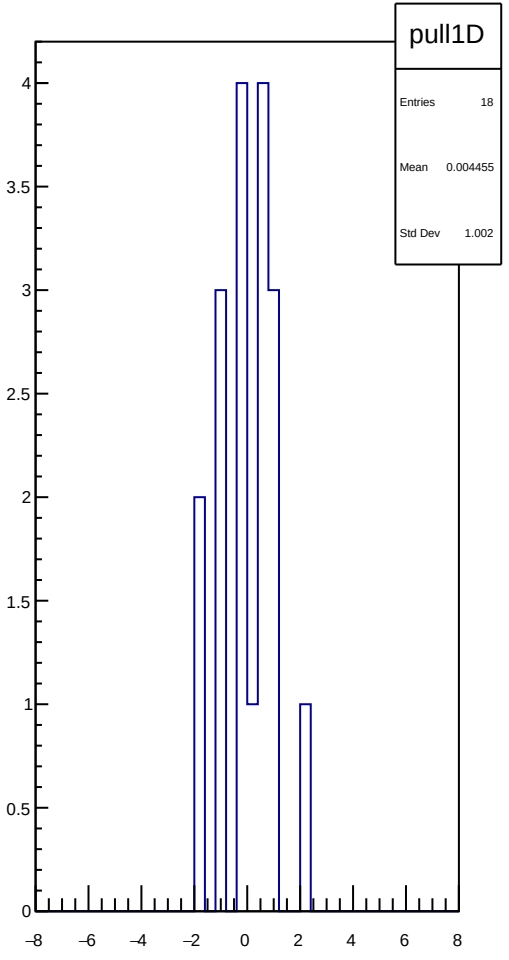

dit_asym_at2_dd_rms vs run
χ² / ndf 15.2 / 17
p0 2084 ± 3.615
2140
2120
2100
2080
2060
2040
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

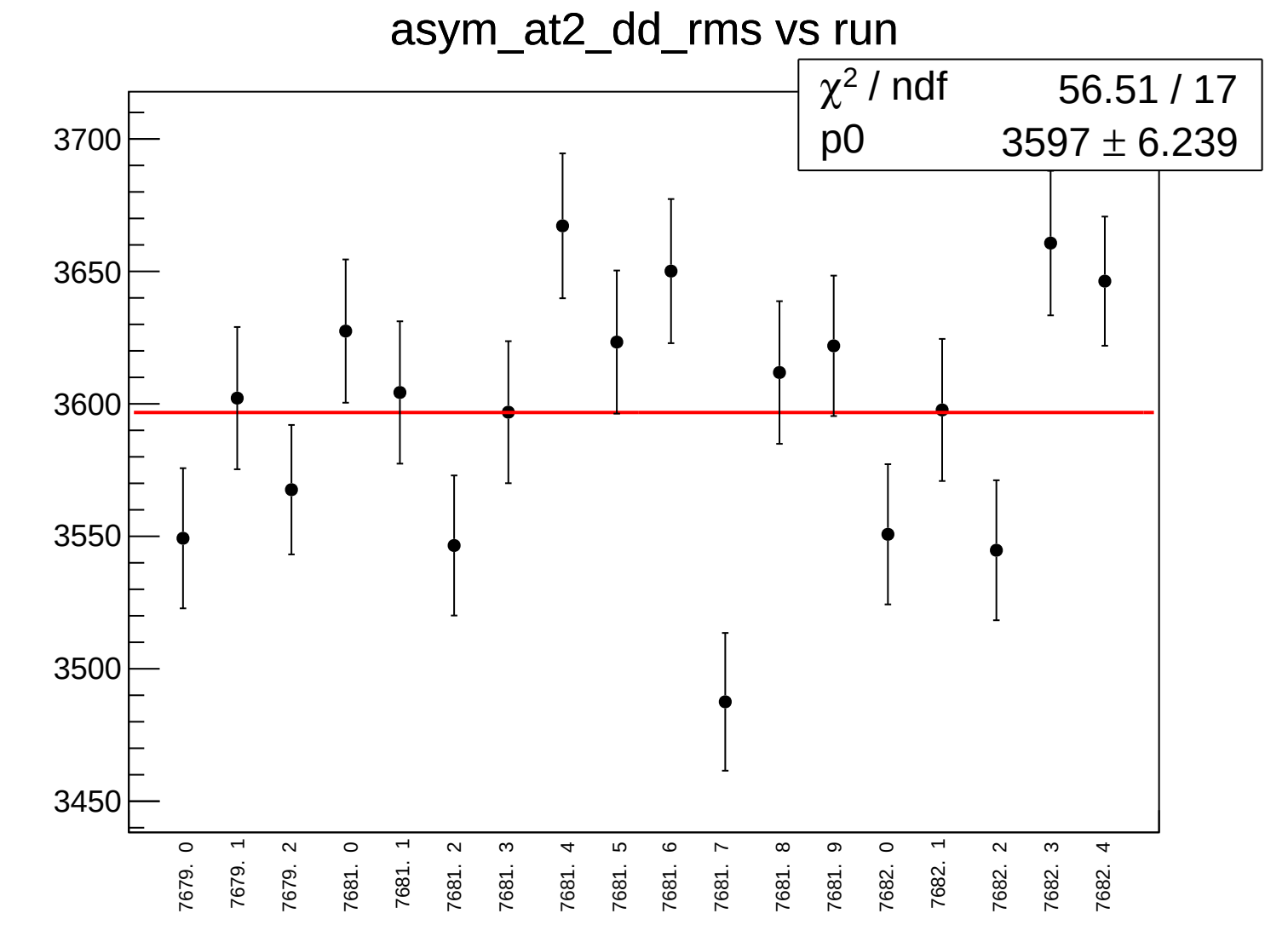

asym_at2_dd_correction_mean vs run
×10^3
χ² / ndf 14.31 / 17
p0 −5334 ± 1.253e+04
150
100
50
0
−50
−100
−150
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −335
Std Dev 354
2
1.5
1
0.5
0
−0.5
−1
−1.5

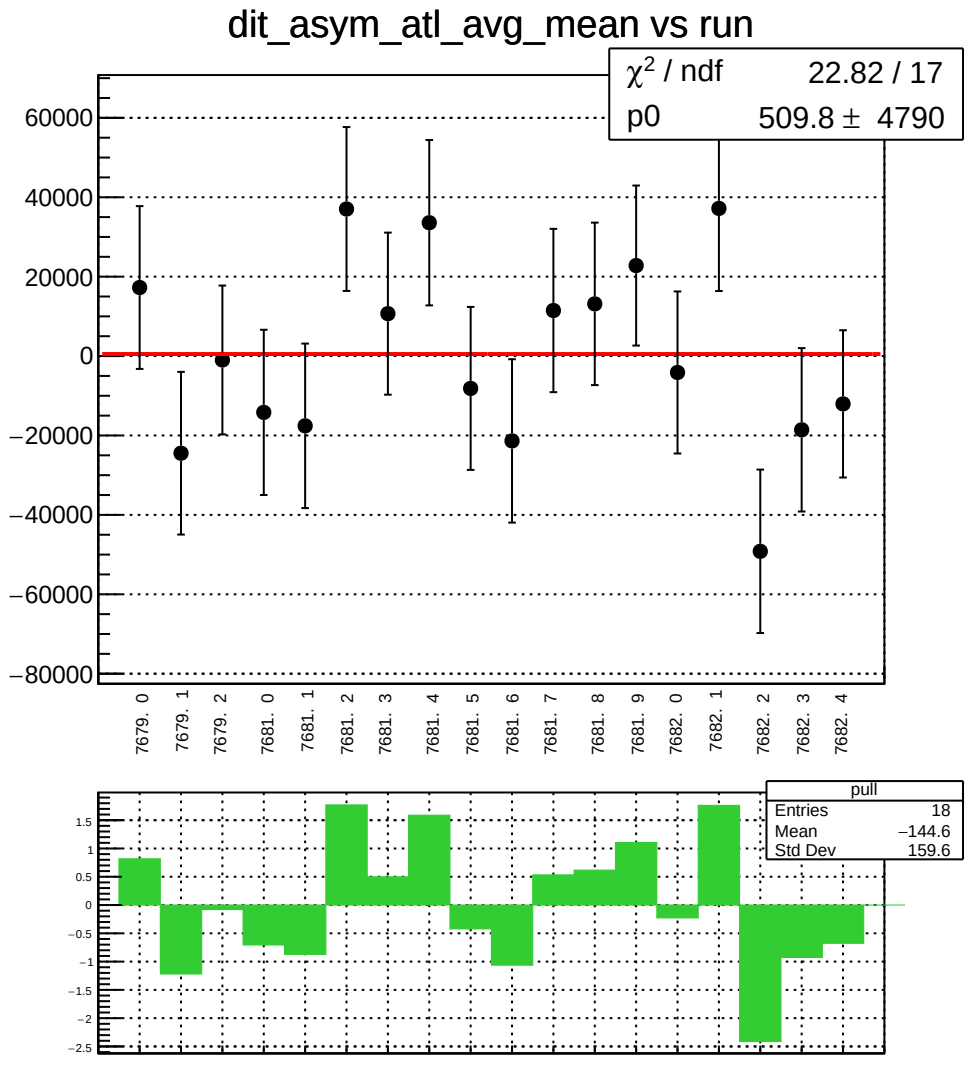

pull1D
Entries 18
Mean −0.001244
Std Dev 0.8916
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

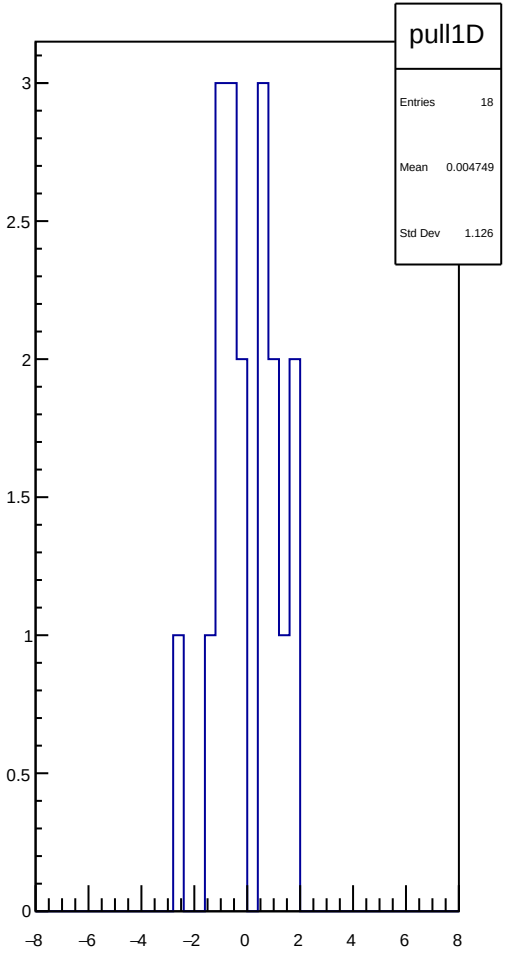

asym_at2_dd_correction_rms vs run
χ² / ndf 19.25 / 17
p0 5108 ± 8.86
5200
5150
5100
5050
5000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

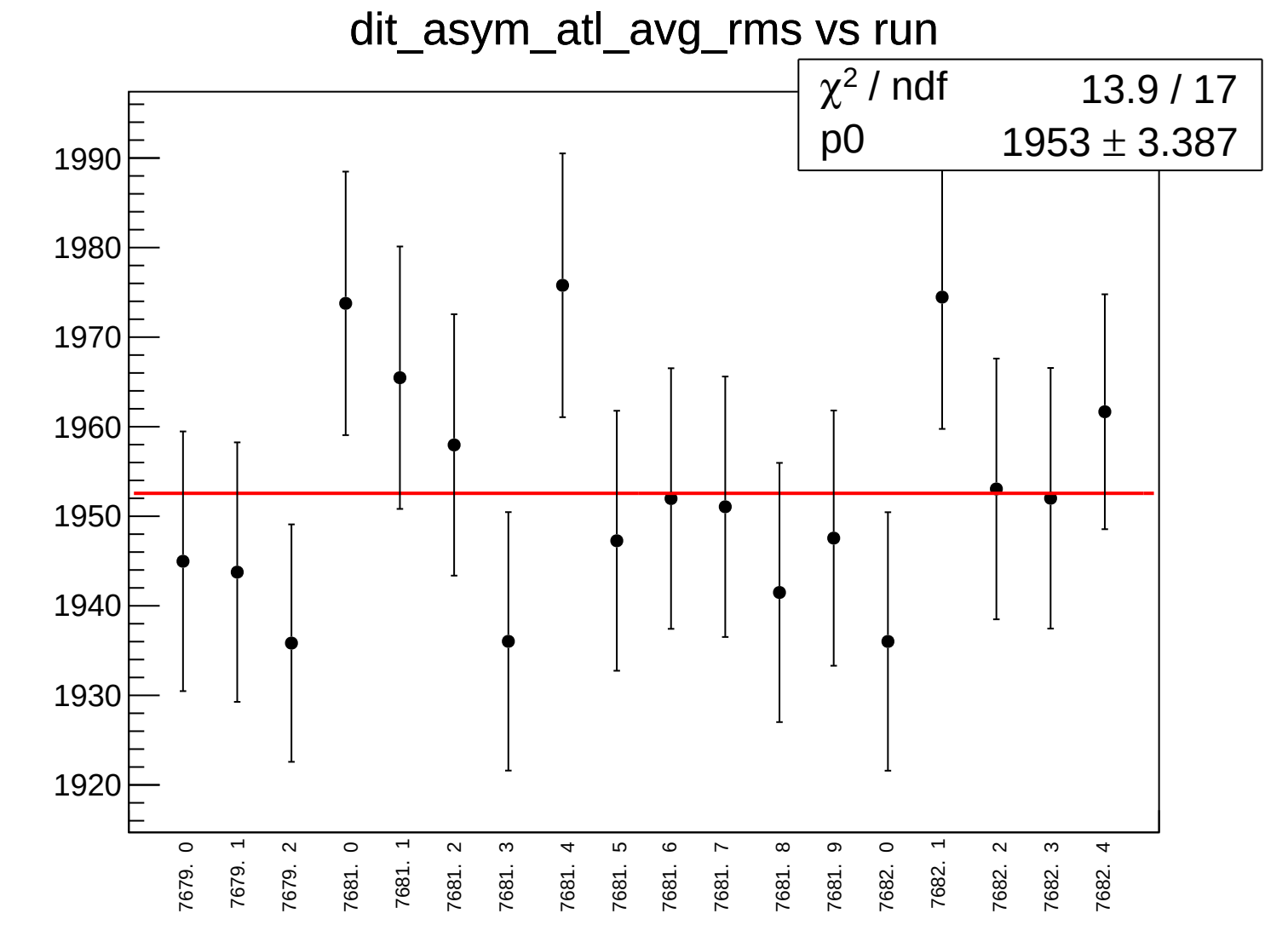

asym_at2_dd_mean vs run
×10^3
χ^2 / ndf 18.08 / 17
p0 6049 ± 8824
100
50
0
−50
−100
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −77.33
Std Dev 95.96

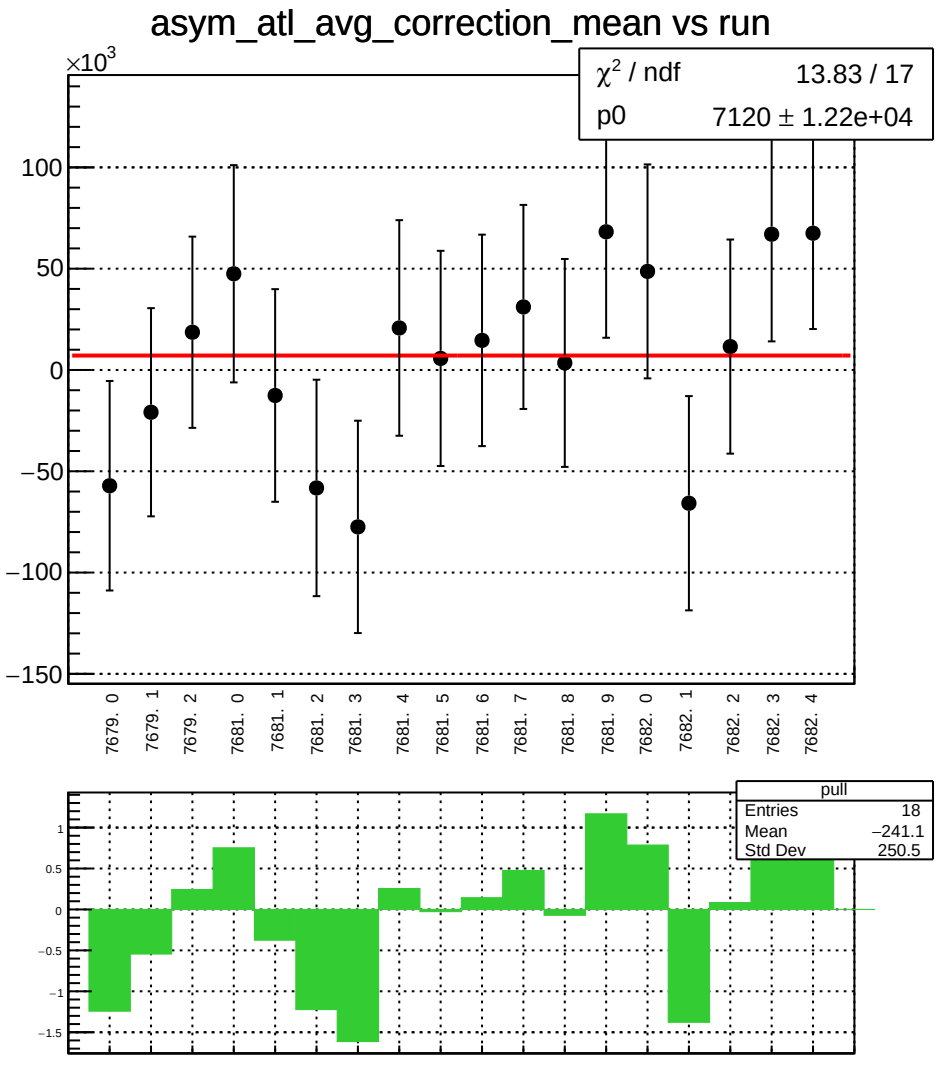

pull1D
Entries 18
Mean 0.004455
Std Dev 1.002

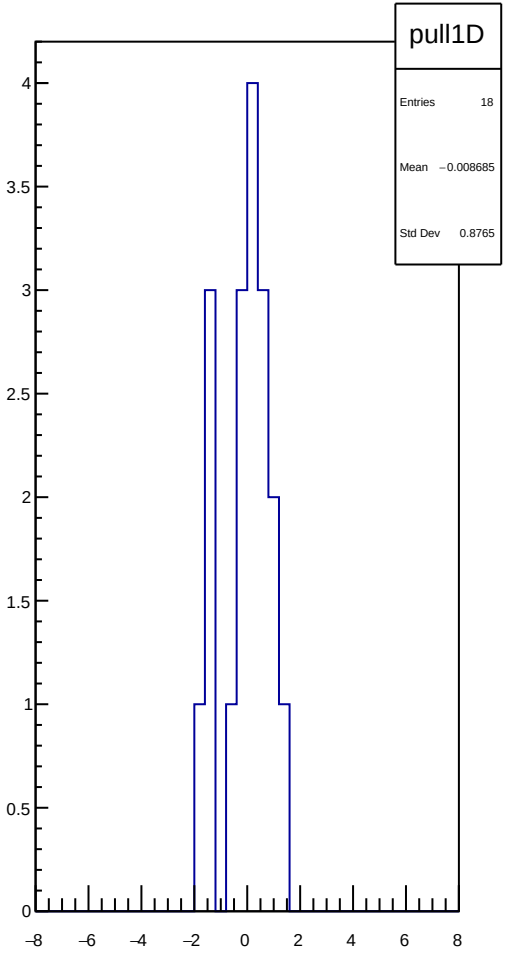

asym_at2_dd_rms vs run
χ² / ndf 56.51 / 17
p0 3597 ± 6.239
3700
3650
3600
3550
3500
3450
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

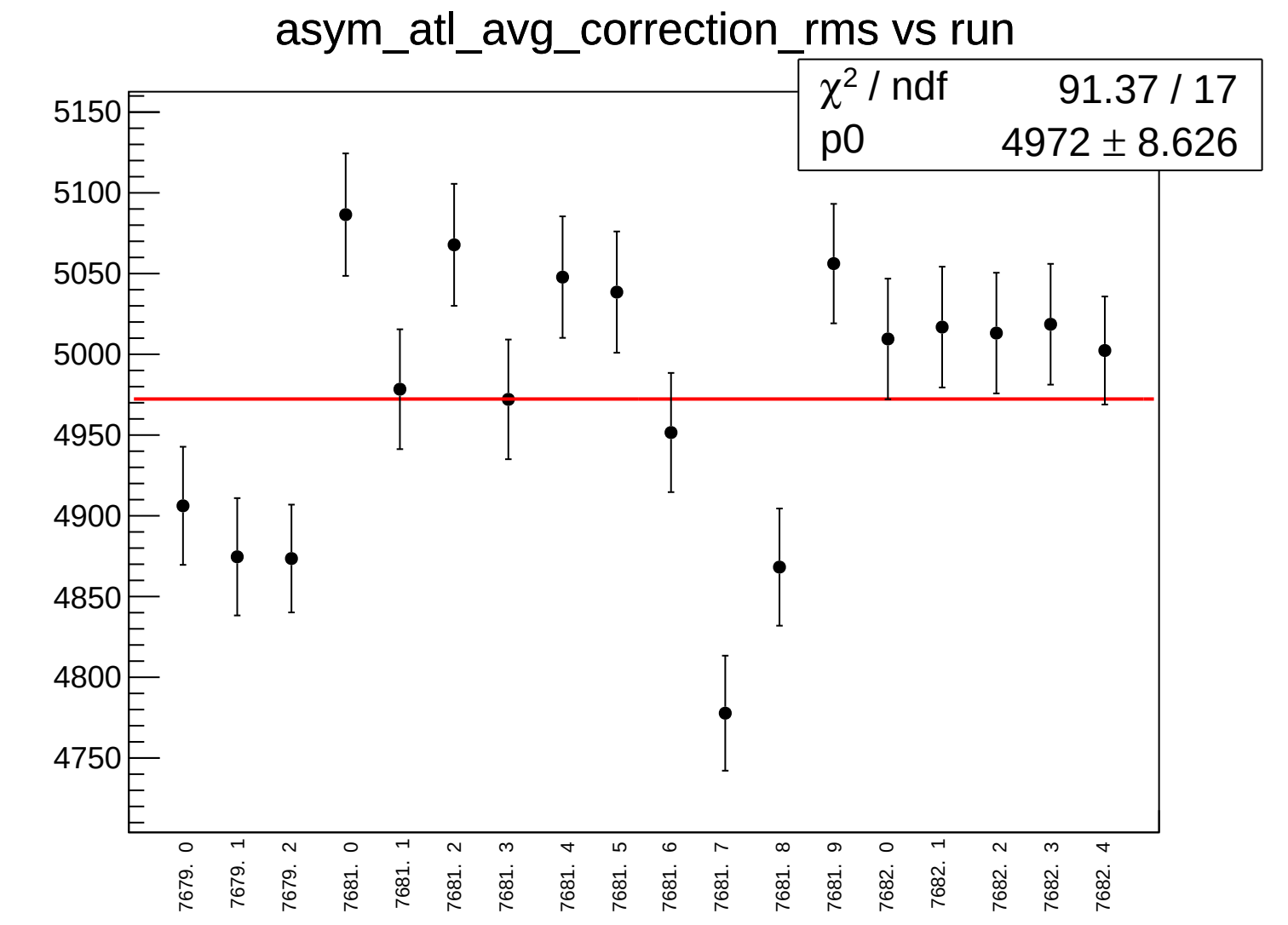

dit_asym_atl_avg_mean vs run
χ² / ndf 22.82 / 17
p0 509.8 ± 4790
60000
40000
20000
0
−20000
−40000
−60000
−80000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −144.6
Std Dev 159.6
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

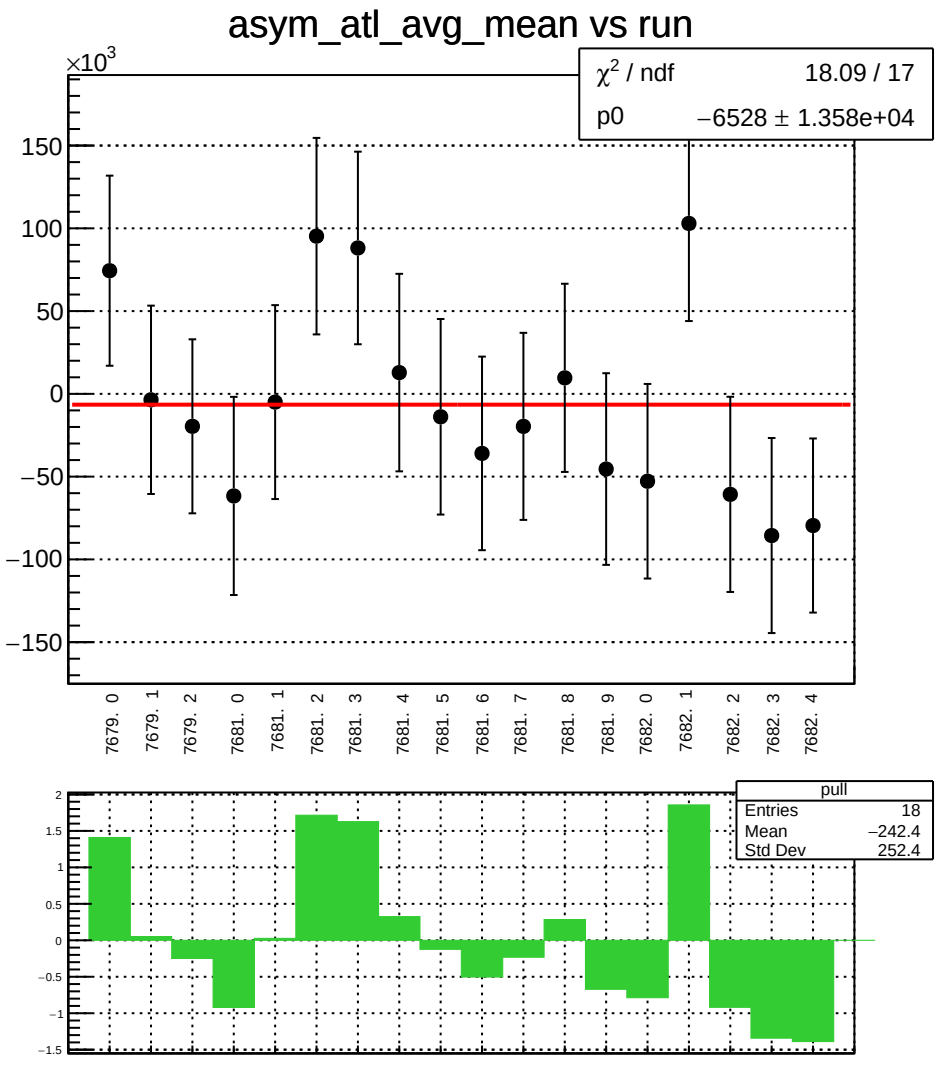

pull1D
Entries 18
Mean 0.004749
Std Dev 1.126
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

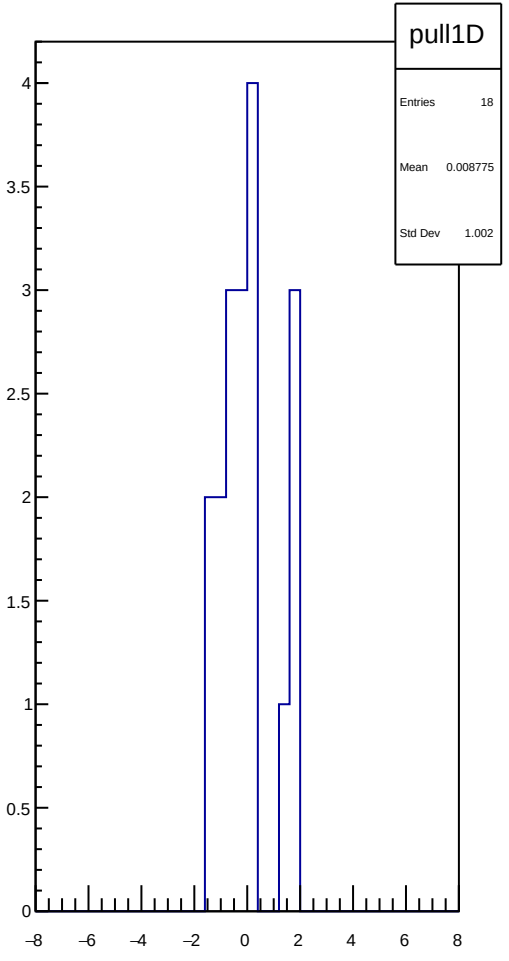

dit_asym_atl_avg_rms vs run
χ² / ndf 13.9 / 17
p0 1953 ± 3.387
1990
1980
1970
1960
1950
1940
1930
1920
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

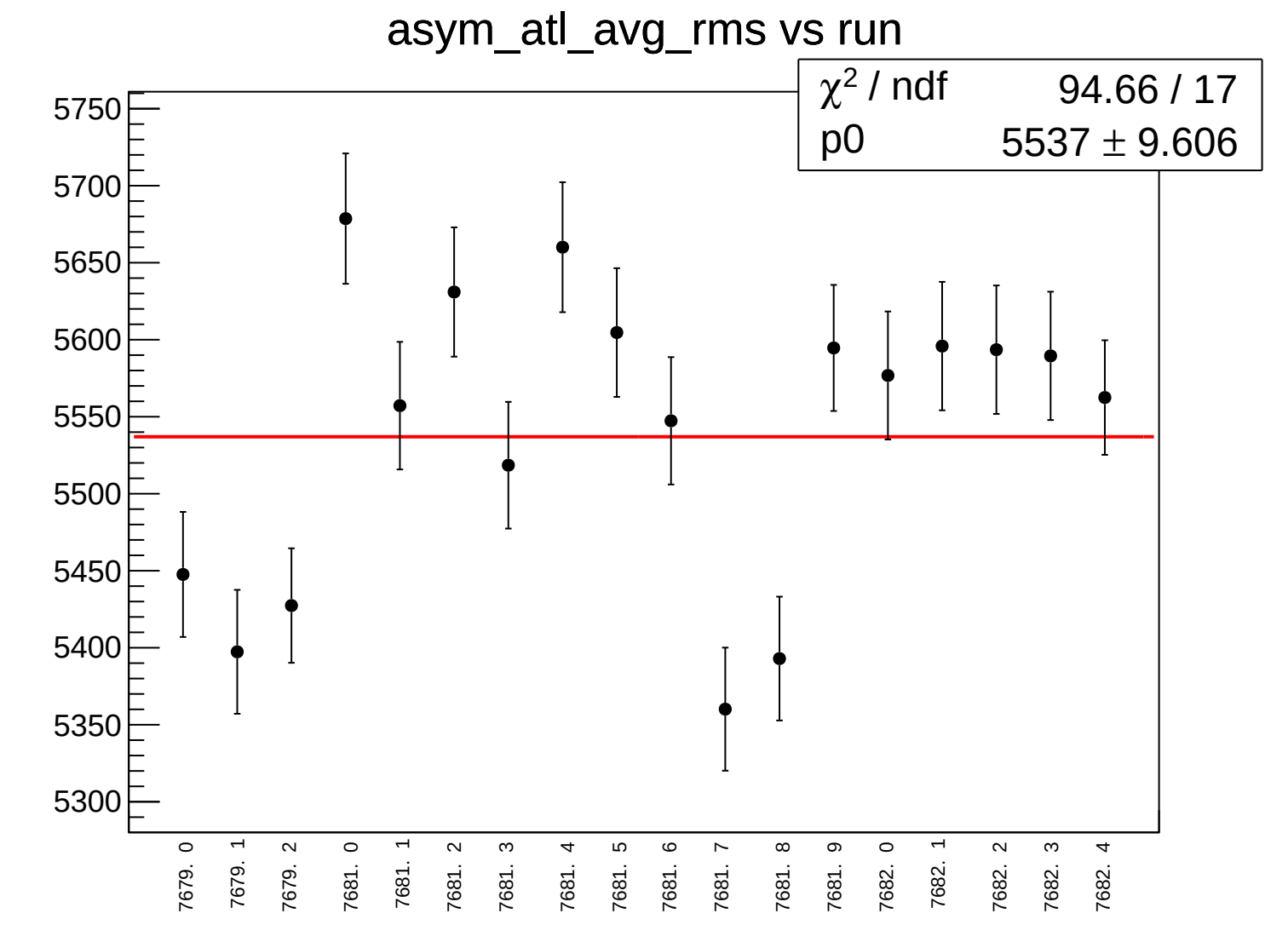

asym_atl_avg_correction_mean vs run
×10^3
χ² / ndf 13.83 / 17
p0 7120 ± 1.22e+04
100
50
0
−50
−100
−150
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −241.1
Std Dev 250.5
1
0.5
0
−0.5
−1
−1.5

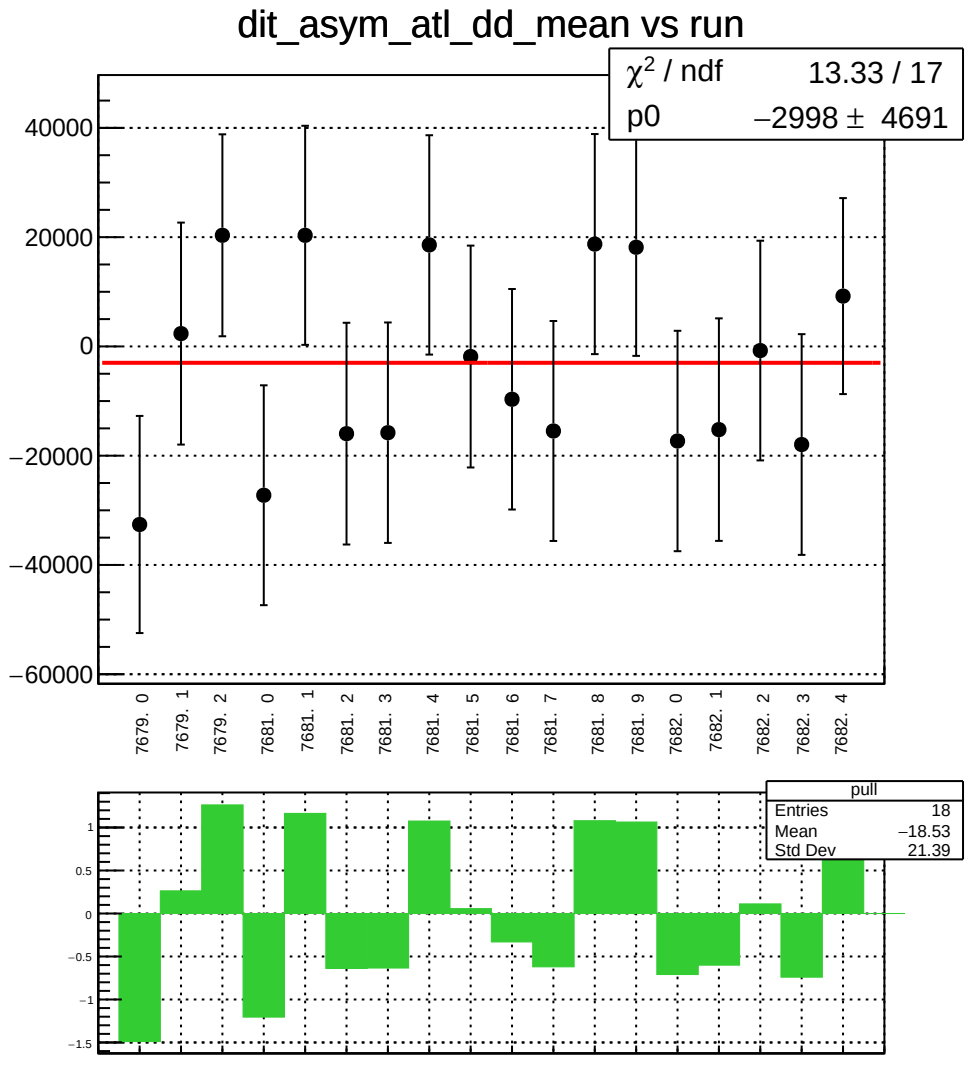

pull1D
Entries 18
Mean −0.008685
Std Dev 0.8765
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

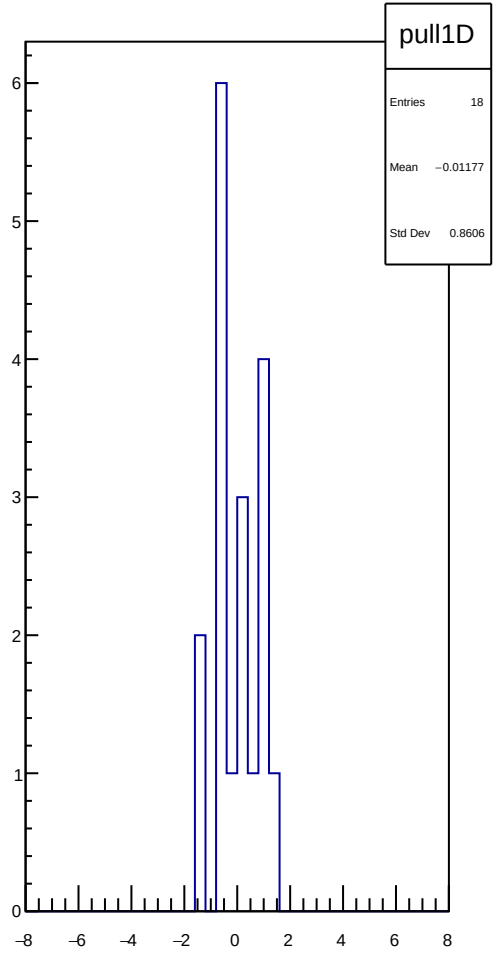

asym_atl_avg_correction_rms vs run
χ^2 / ndf 91.37 / 17
p0 4972 ± 8.626
5150
5100
5050
5000
4950
4900
4850
4800
4750
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

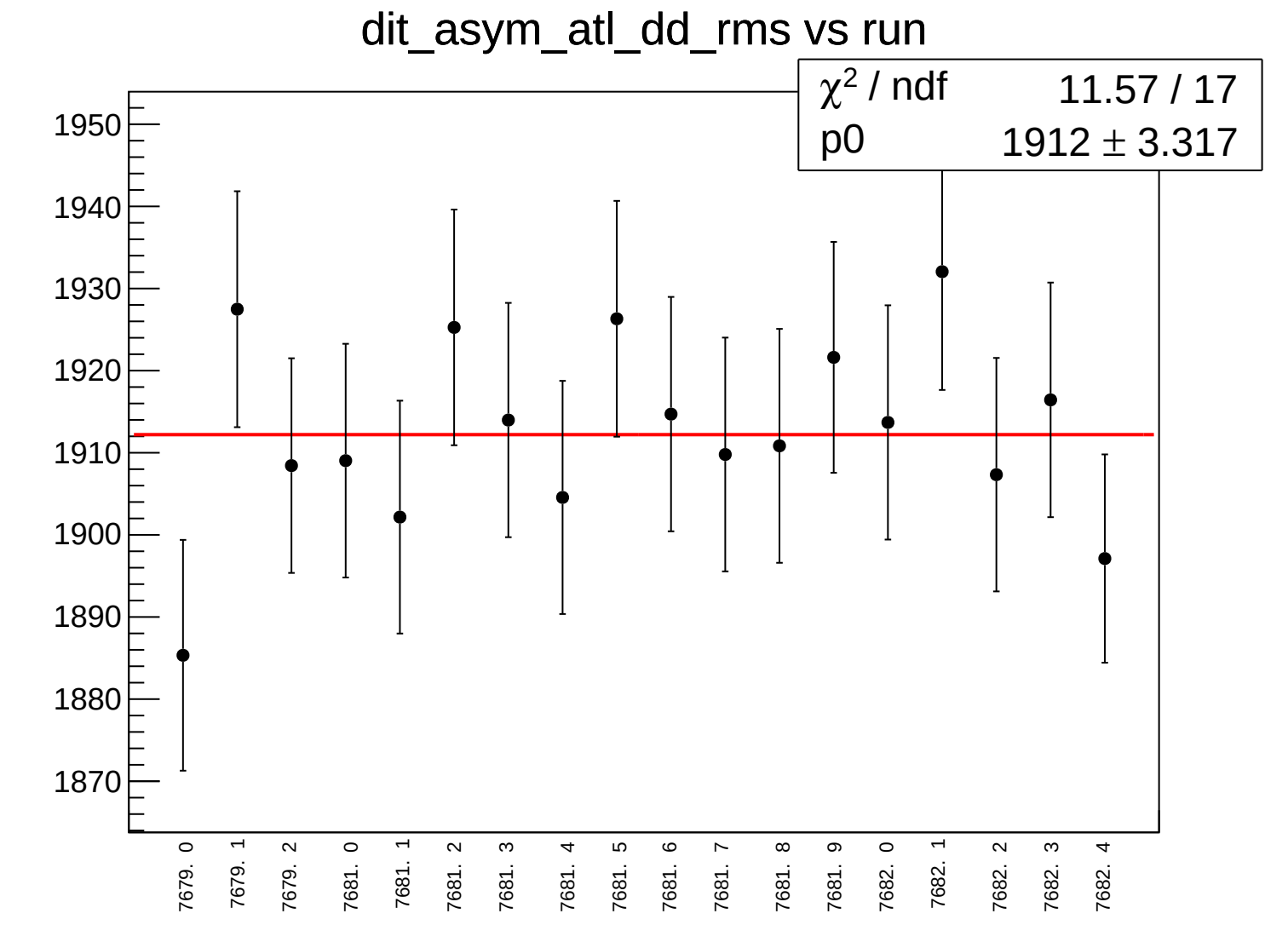

asym_atl_avg_mean vs run
×10^3
χ² / ndf 18.09 / 17
p0 −6528 ± 1.358e+04
150
100
50
0
−50
−100
−150
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −242.4
Std Dev 252.4
2
1.5
1
0.5
0
−0.5
−1
−1.5

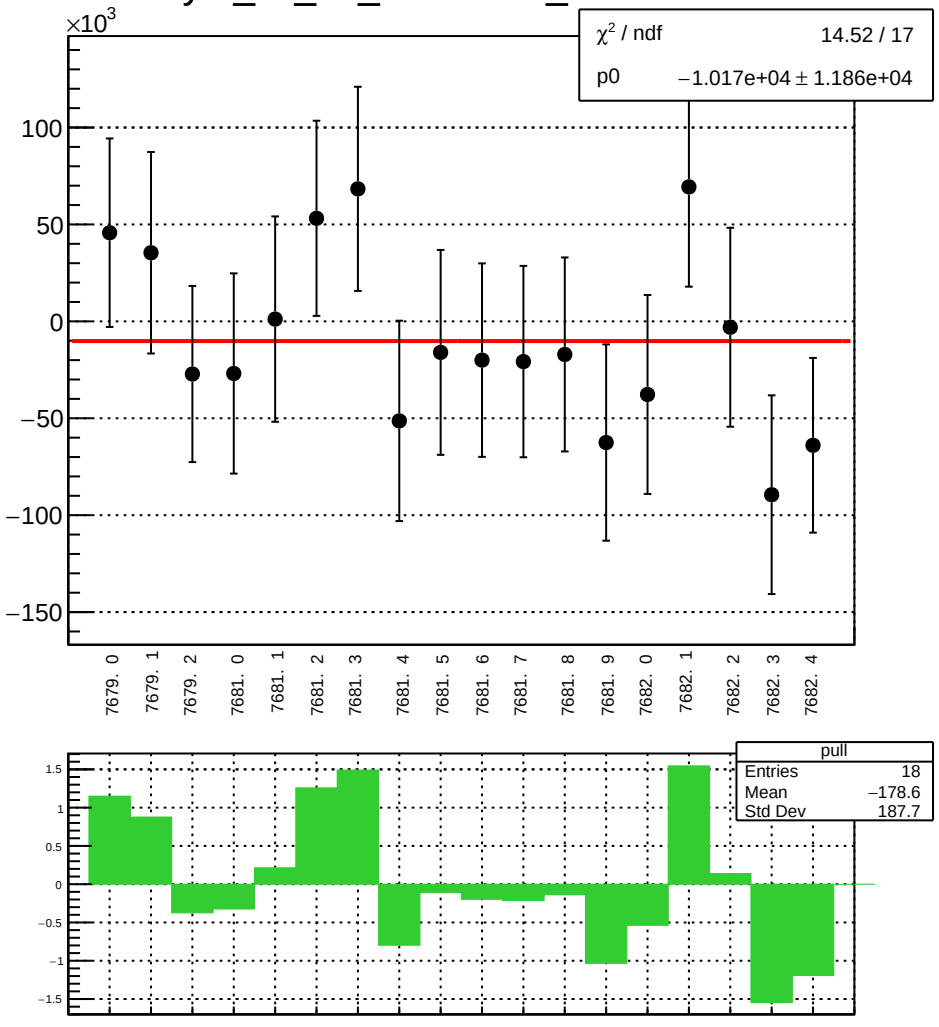

pull1D
Entries 18
Mean 0.008775
Std Dev 1.002
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

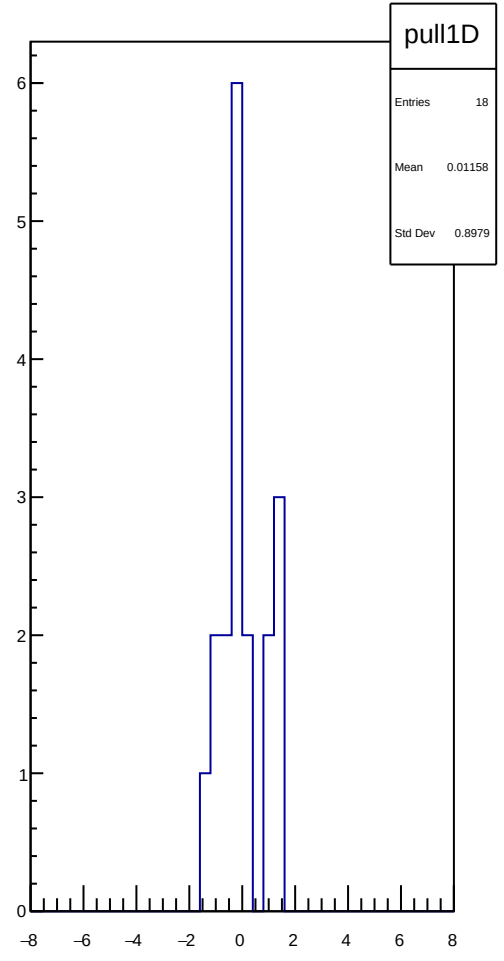

asym_atl_avg_rms vs run
χ^2 / ndf 94.66 / 17
p0 5537 ± 9.606
5750
5700
5650
5600
5550
5500
5450
5400
5350
5300
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

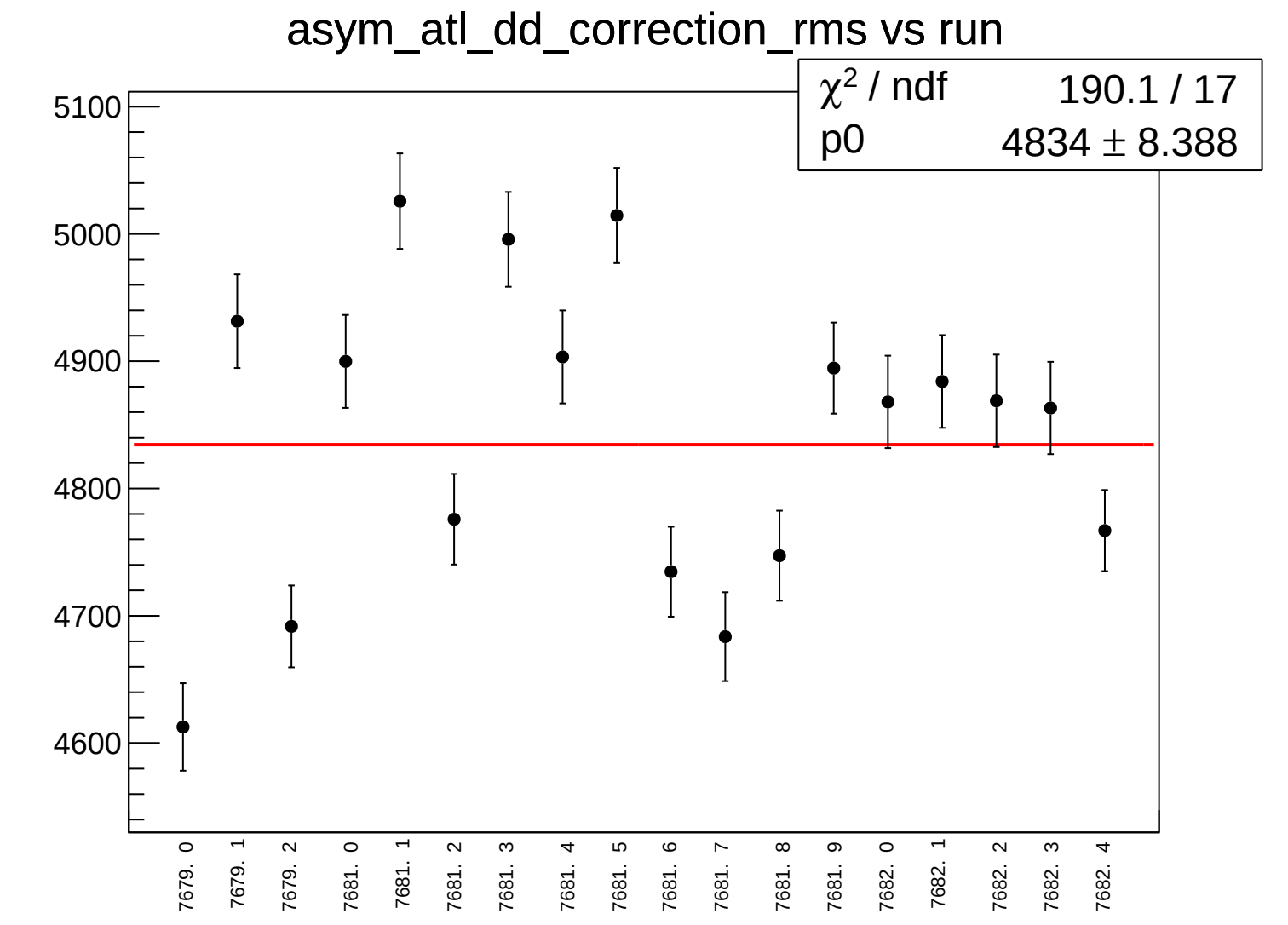

dit_asym_atl_dd_mean vs run
χ² / ndf 13.33 / 17
p0 −2998 ± 4691
40000
20000
0
−20000
−40000
−60000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −18.53
Std Dev 21.39
1
0.5
0
−0.5
−1
−1.5

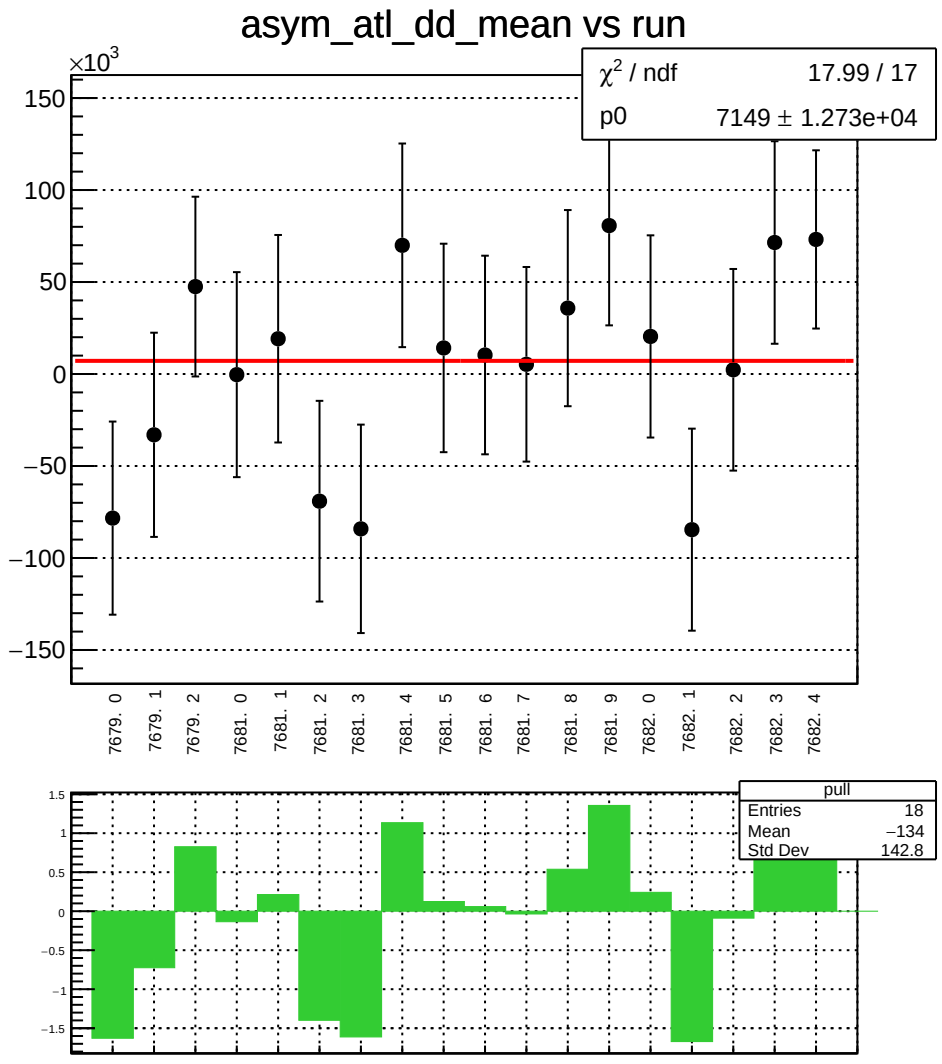

pull1D
Entries 18
Mean −0.01177
Std Dev 0.8606
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

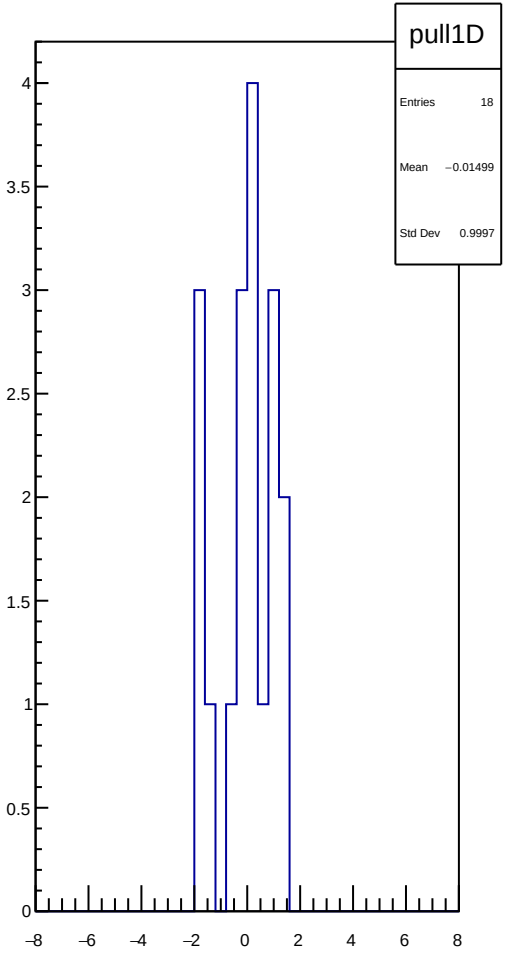

dit_asym_atl_dd_rms vs run
χ² / ndf 11.57 / 17
p0 1912 ± 3.317
1950
1940
1930
1920
1910
1900
1890
1880
1870
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

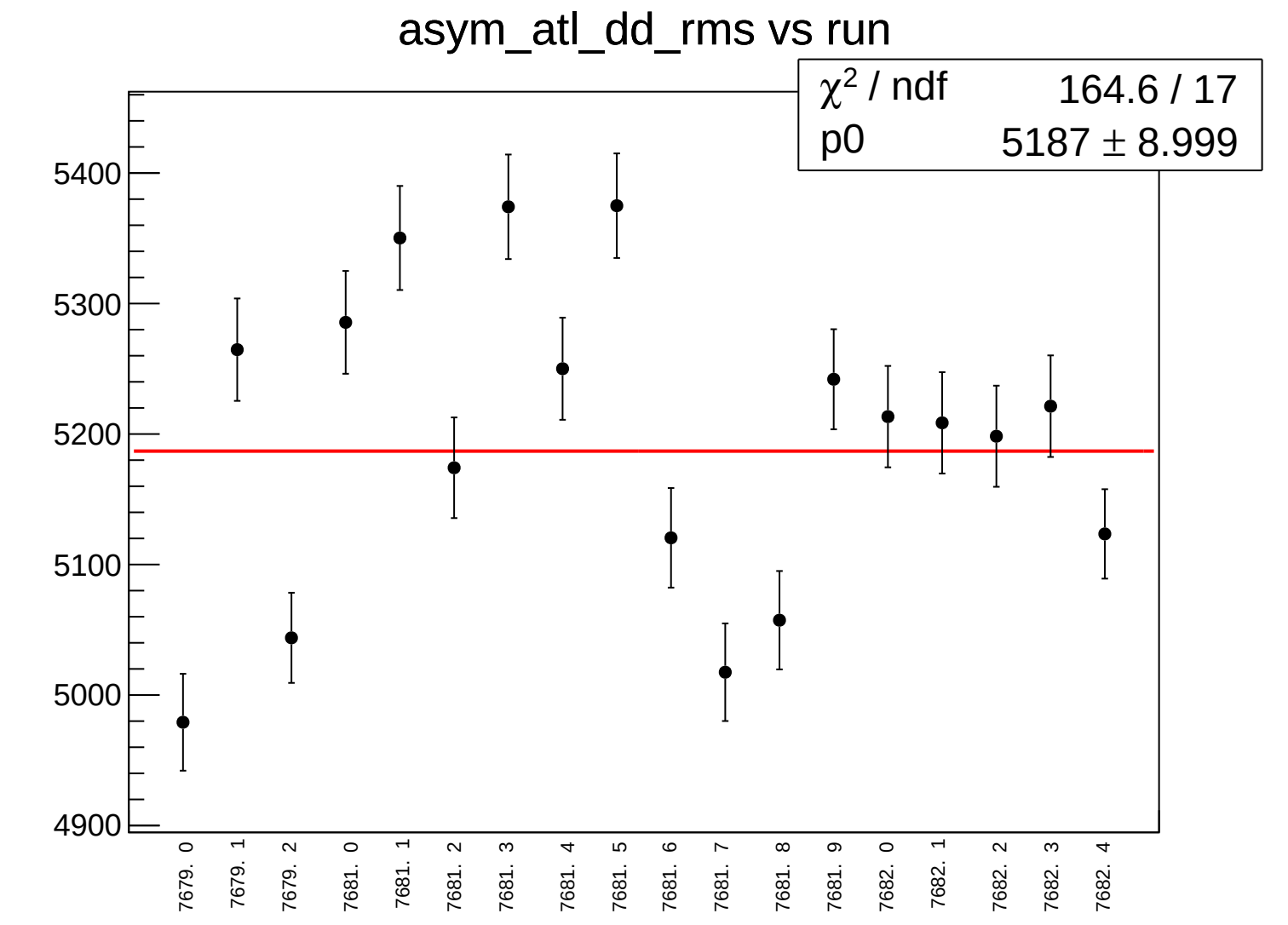

asym_atl_dd_correction_mean vs run
×10^3
χ² / ndf 14.52 / 17
p0 −1.017e+04 ± 1.186e+04
100
50
0
−50
−100
−150
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −178.6
Std Dev 187.7
1.5
1
0.5
0
−0.5
−1
−1.5

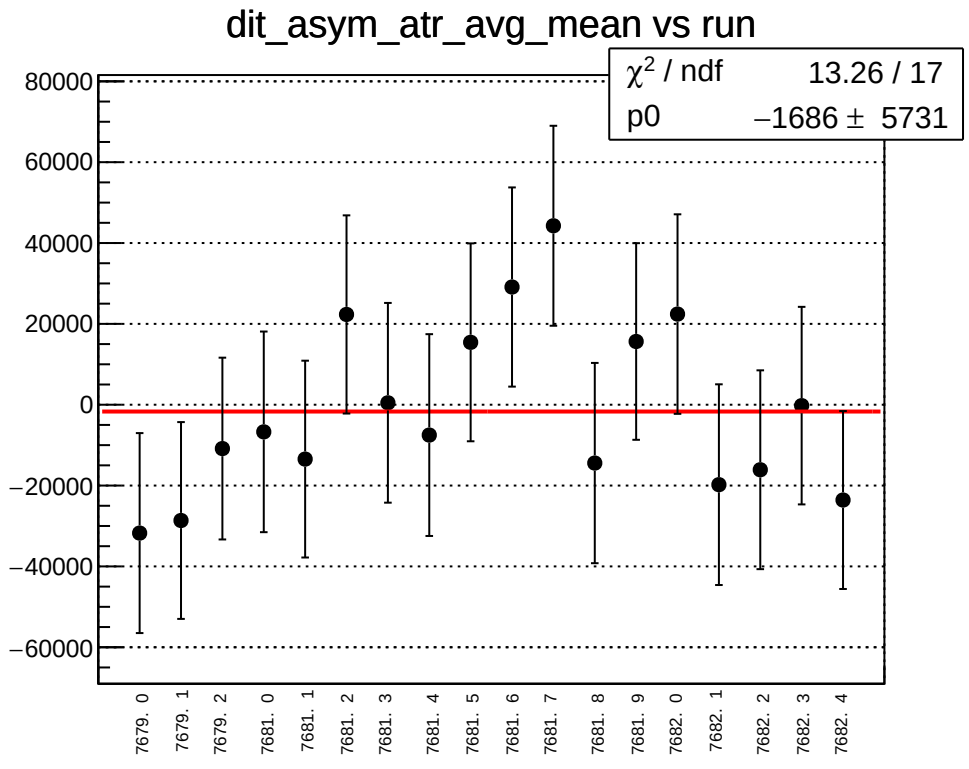

pull1D
Entries 18
Mean 0.01158
Std Dev 0.8979
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

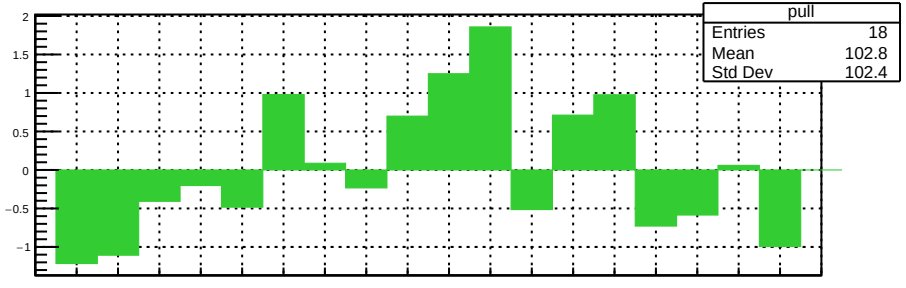

asym_atl_dd_correction_rms vs run
χ² / ndf 190.1 / 17
p0 4834 ± 8.388
5100
5000
4900
4800
4700
4600
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

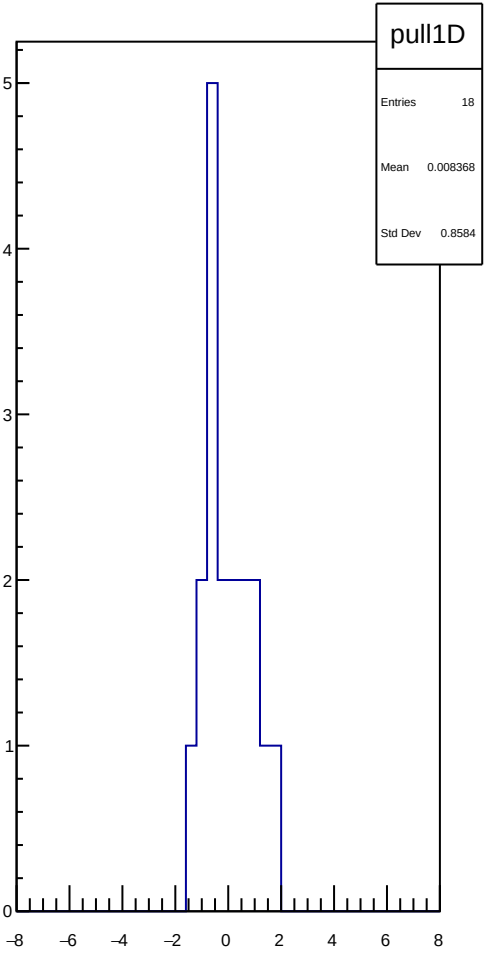

asym_atl_dd_mean vs run
×10^3
χ² / ndf 17.99 / 17
p0 7149 ± 1.273e+04
150
100
50
0
−50
−100
−150
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −134
Std Dev 142.8
1.5
1
0.5
0
−0.5
−1
−1.5

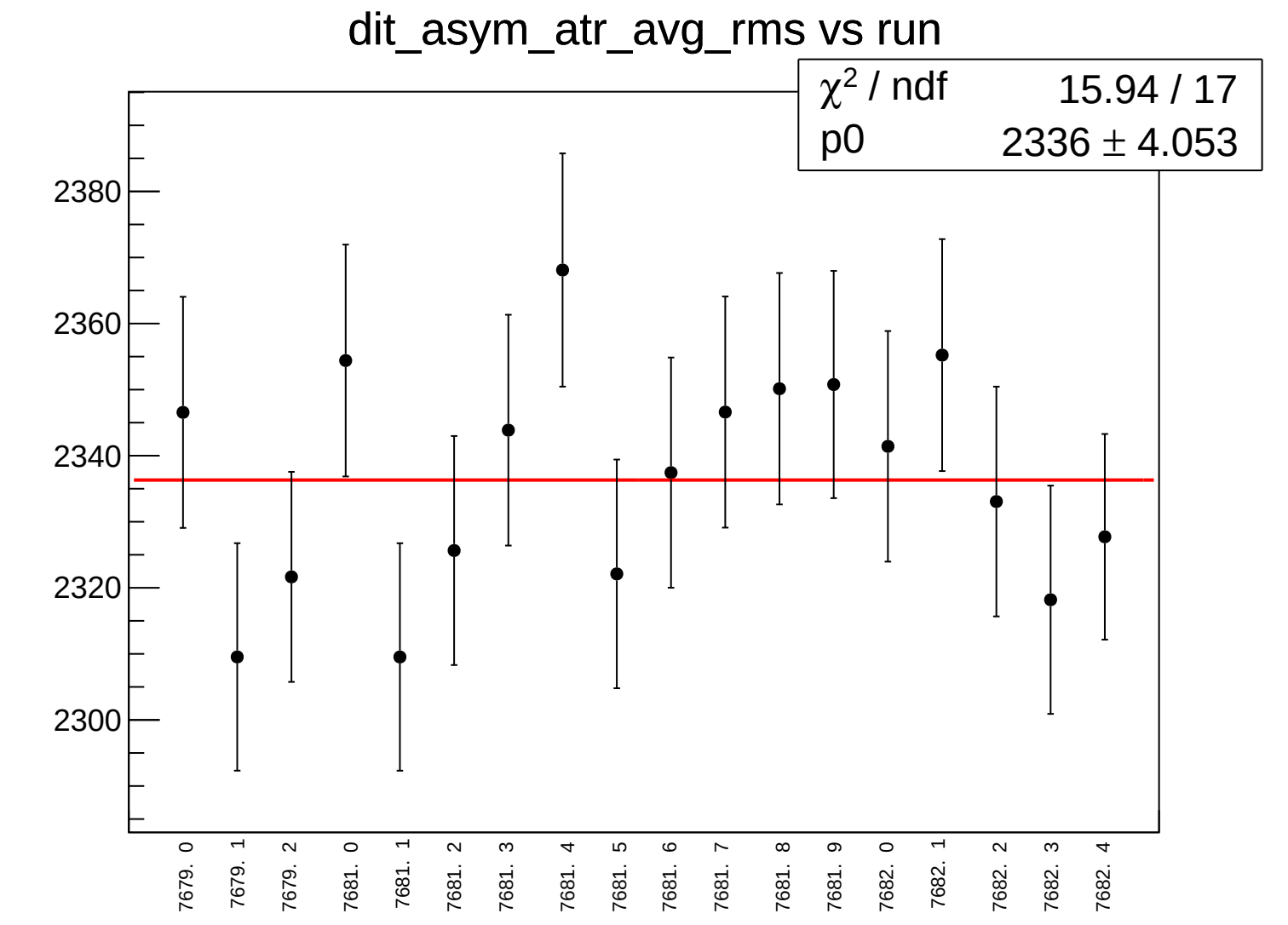

pull1D
Entries 18
Mean −0.01499
Std Dev 0.9997
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

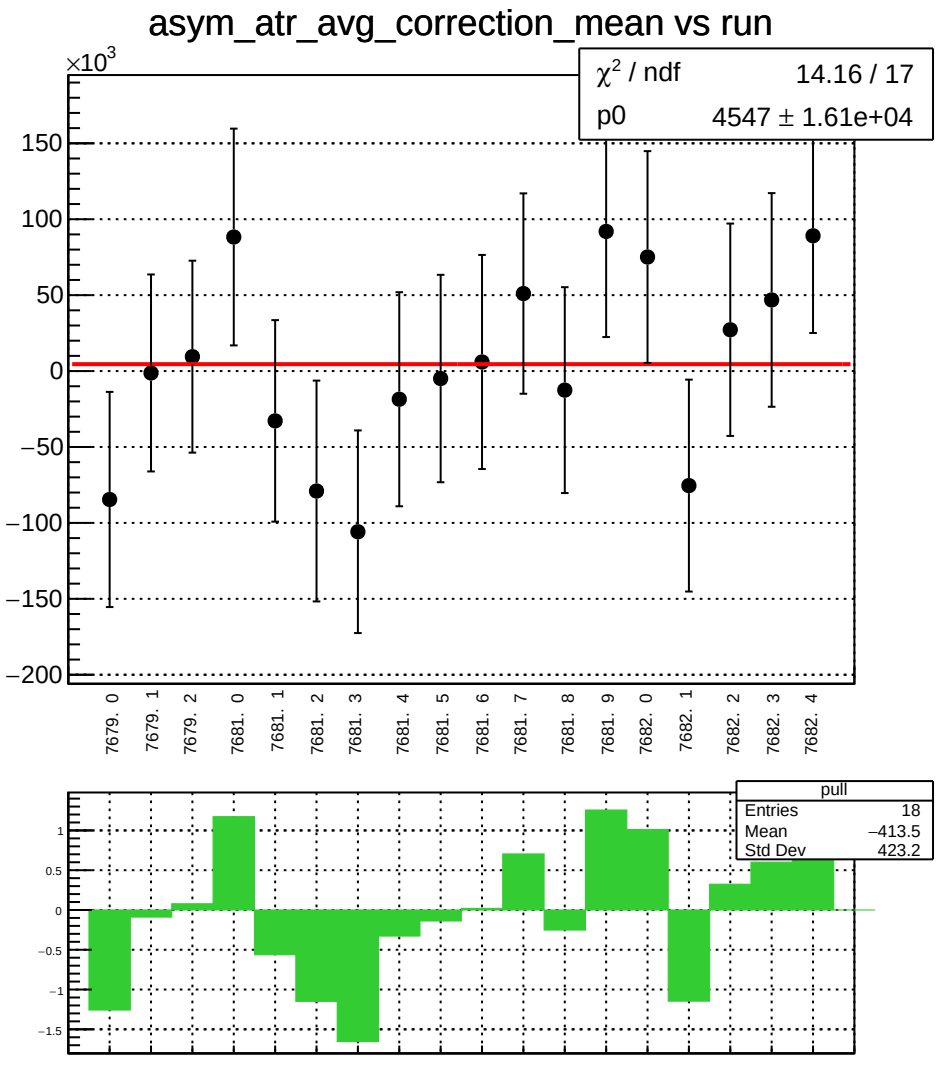

asym_atl_dd_rms vs run
χ² / ndf 164.6 / 17
p0 5187 ± 8.999
5400
5300
5200
5100
5000
4900
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

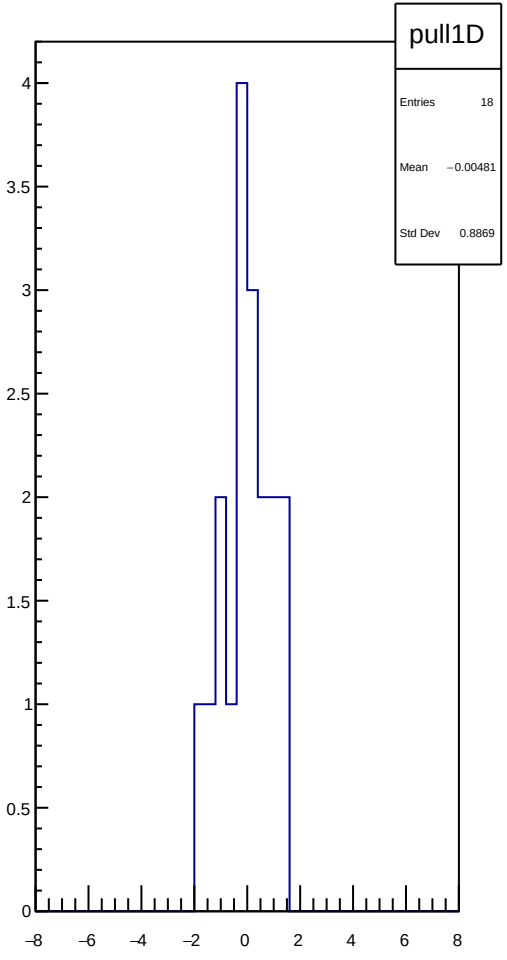

dit_asym_atr_avg_mean vs run
χ² / ndf 13.26 / 17
p0 −1686 ± 5731
80000
60000
40000
20000
0
−20000
−40000
−60000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

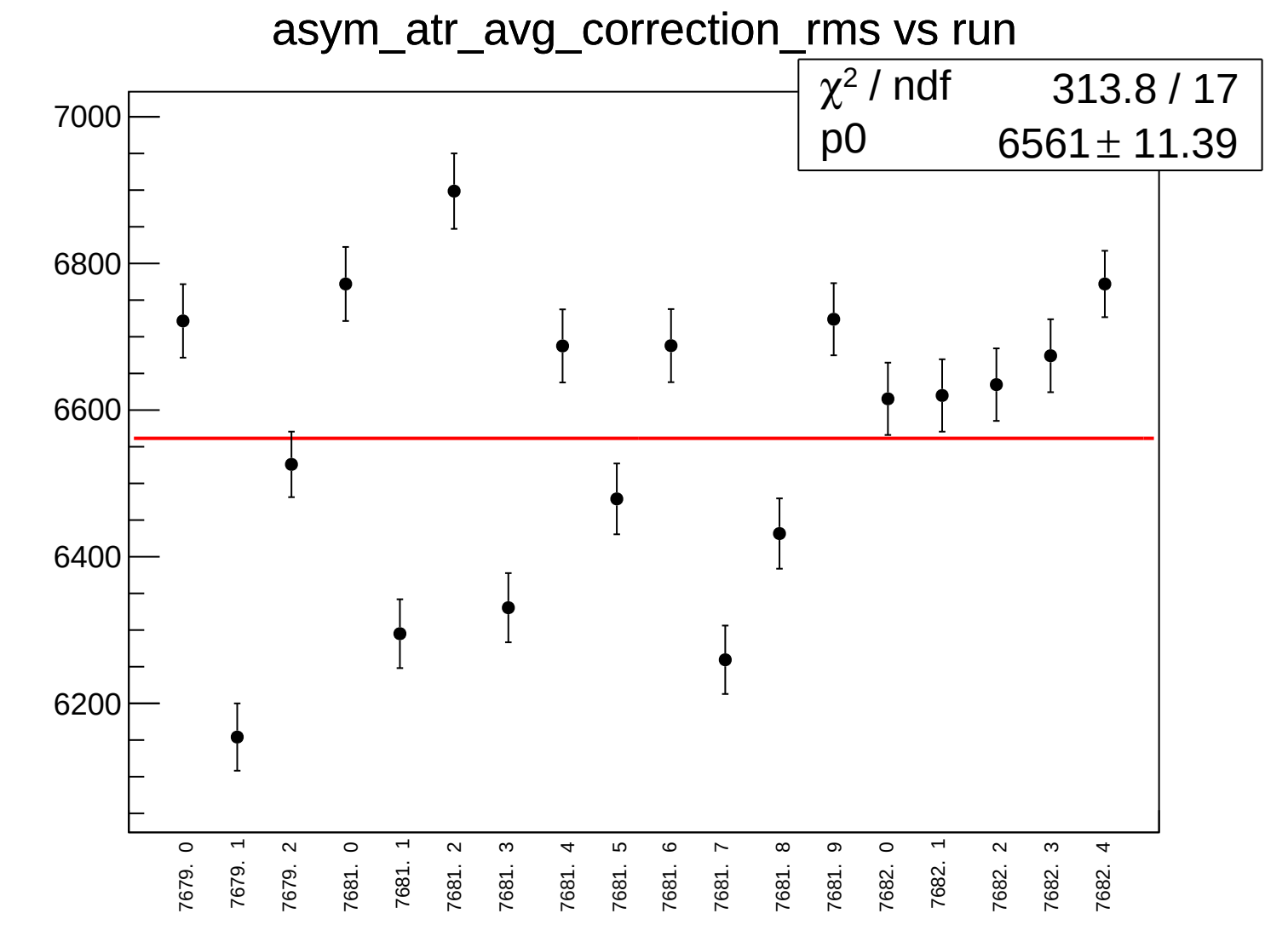

pull
Entries 18
Mean 102.8
Std Dev 102.4
2
1.5
1
0.5
0
−0.5
−1

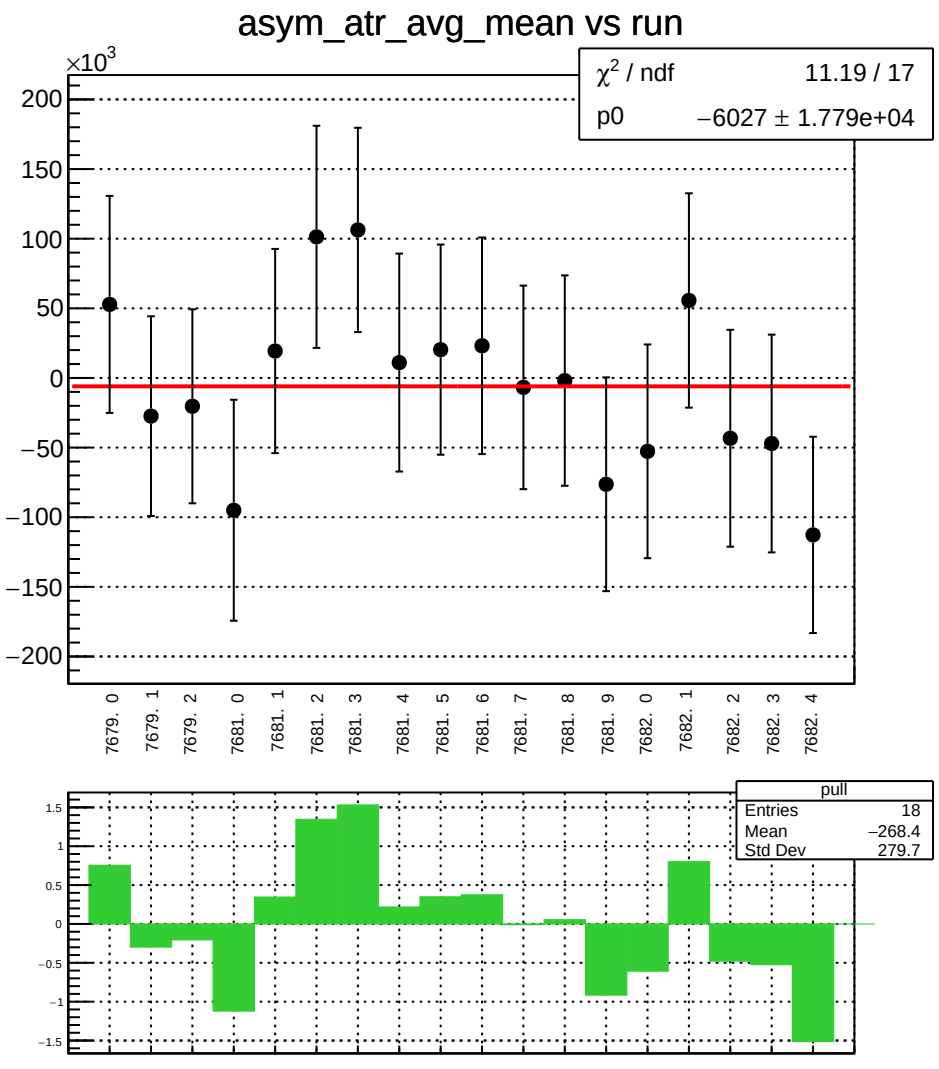

pull1D
Entries 18
Mean 0.008368
Std Dev 0.8584
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

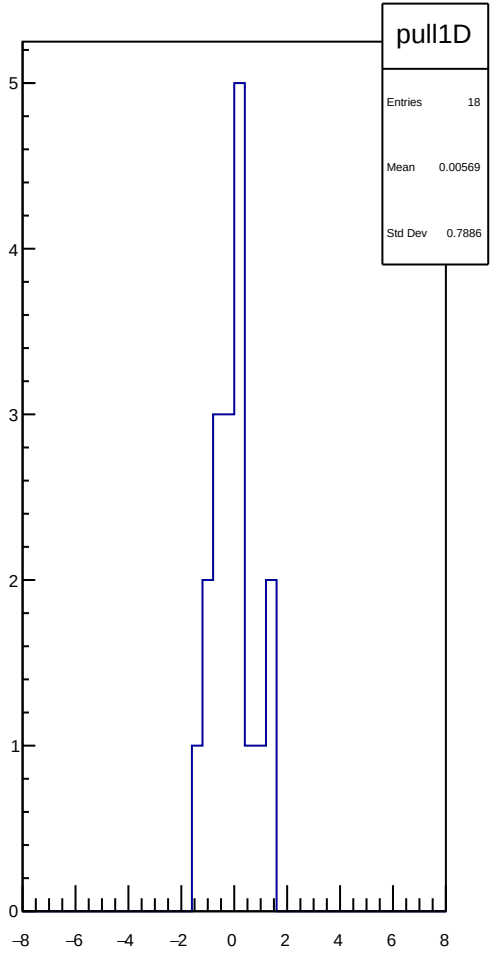

dit_asym_atr_avg_rms vs run
χ² / ndf 15.94 / 17
p0 2336 ± 4.053
2380
2360
2340
2320
2300
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

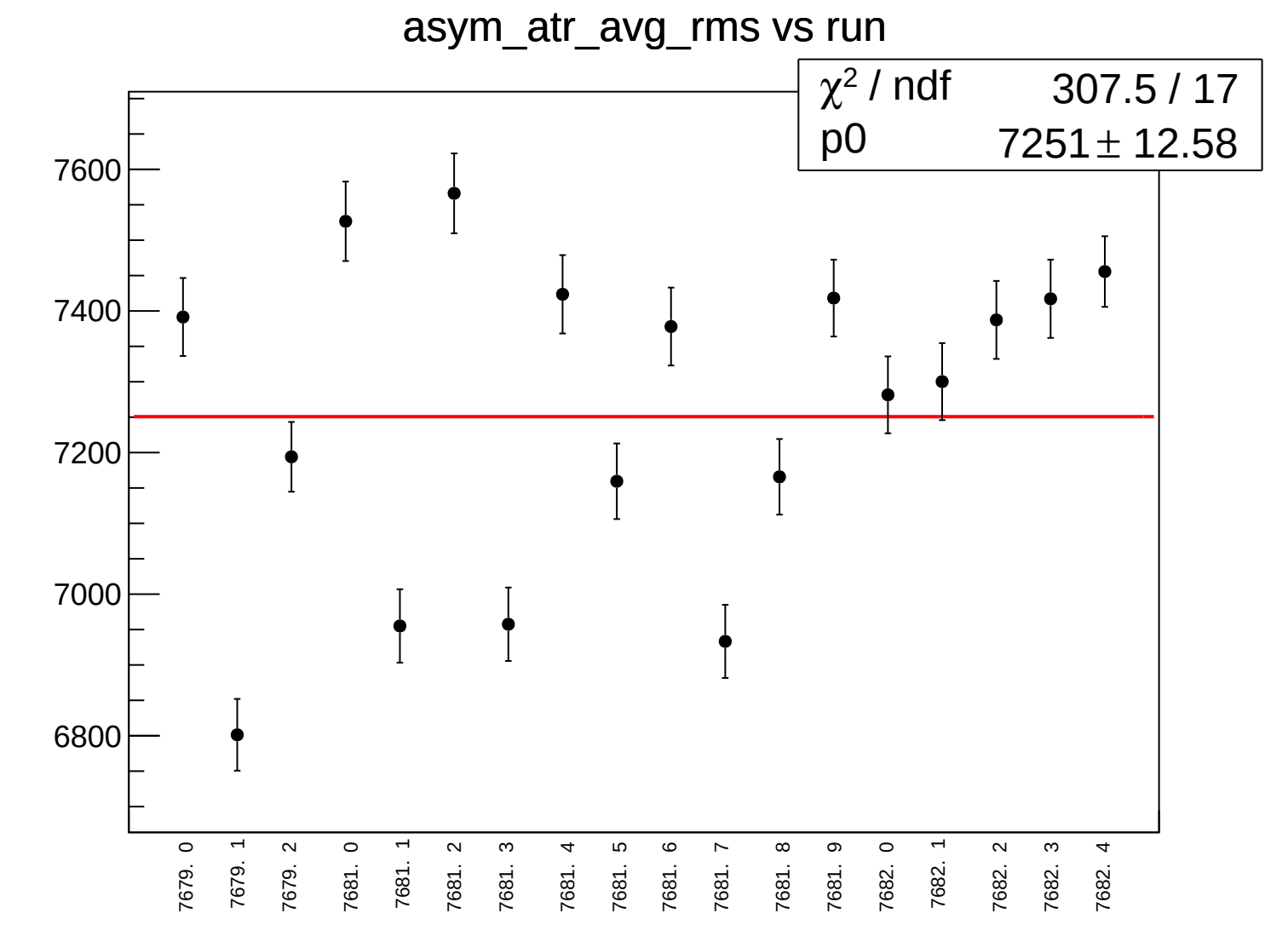

asym_atr_avg_correction_mean vs run
×10^3
χ² / ndf 14.16 / 17
p0 4547 ± 1.61e+04
150
100
50
0
−50
−100
−150
−200
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −413.5
Std Dev 423.2
1
0.5
0
−0.5
−1
−1.5

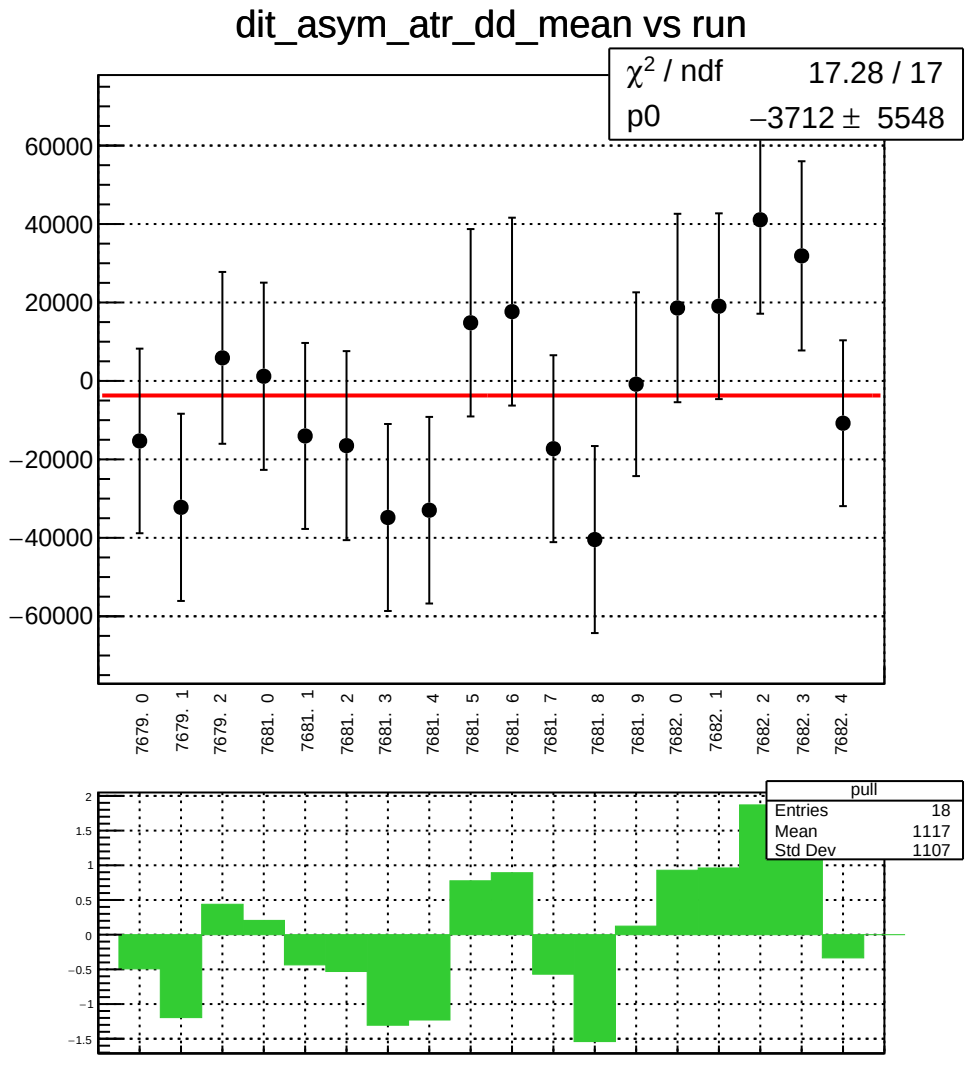

pull1D
Entries 18
Mean −0.00481
Std Dev 0.8869
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

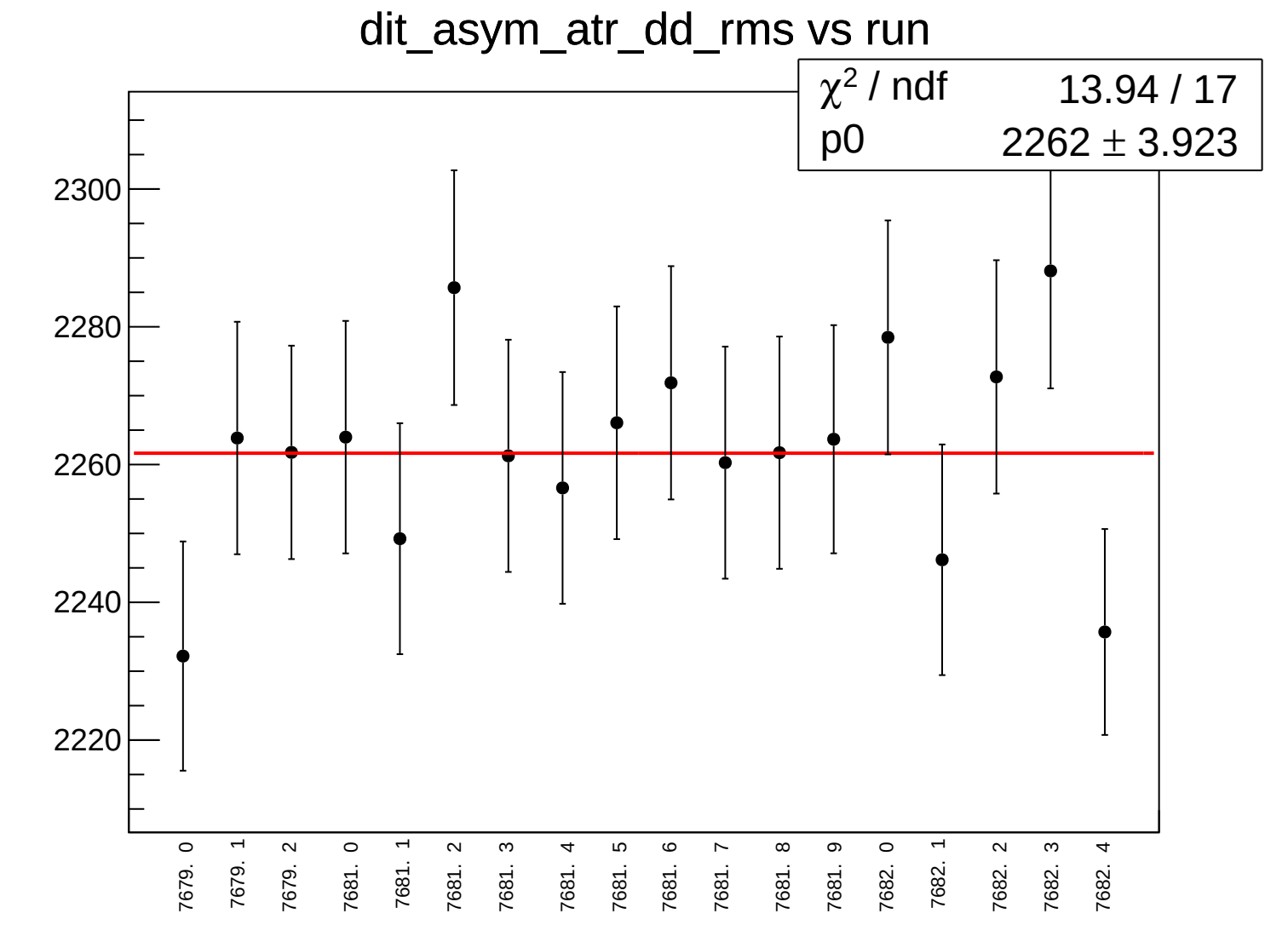

asym_atr_avg_correction_rms vs run
χ² / ndf 313.8 / 17
p0 6561 ± 11.39
7000
6800
6600
6400
6200
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

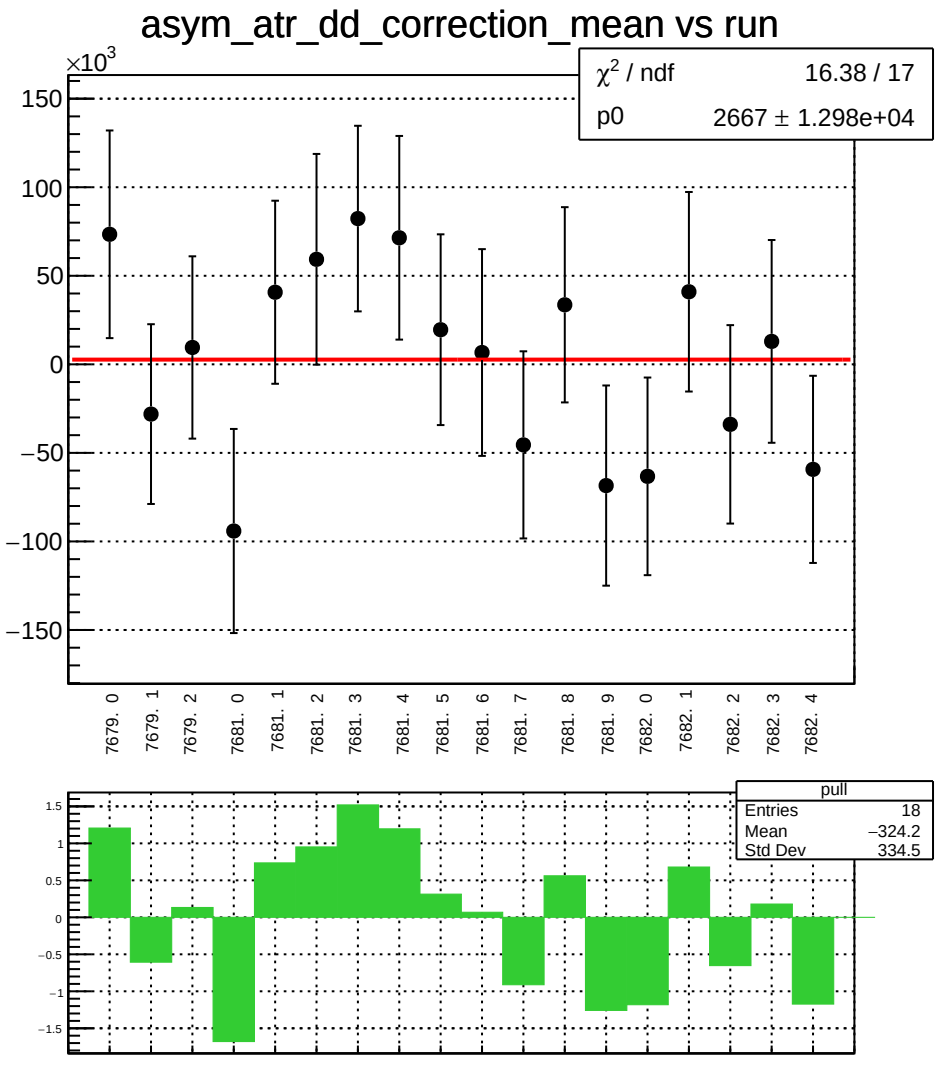

asym_atr_avg_mean vs run
×10^3
χ² / ndf 11.19 / 17
p0 −6027 ± 1.779e+04
200
150
100
50
0
−50
−100
−150
−200
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −268.4
Std Dev 279.7
1.5
1
0.5
0
−0.5
−1
−1.5

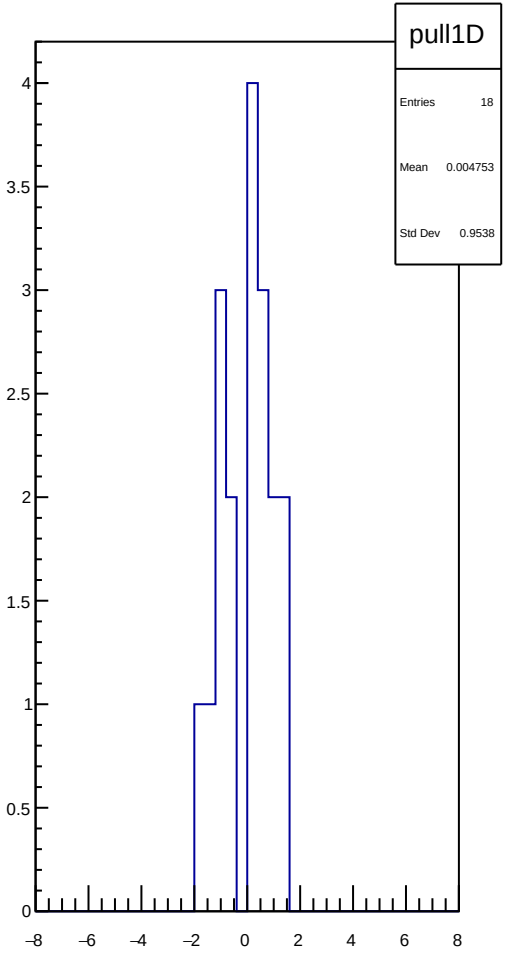

pull1D
Entries 18
Mean 0.00569
Std Dev 0.7886
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

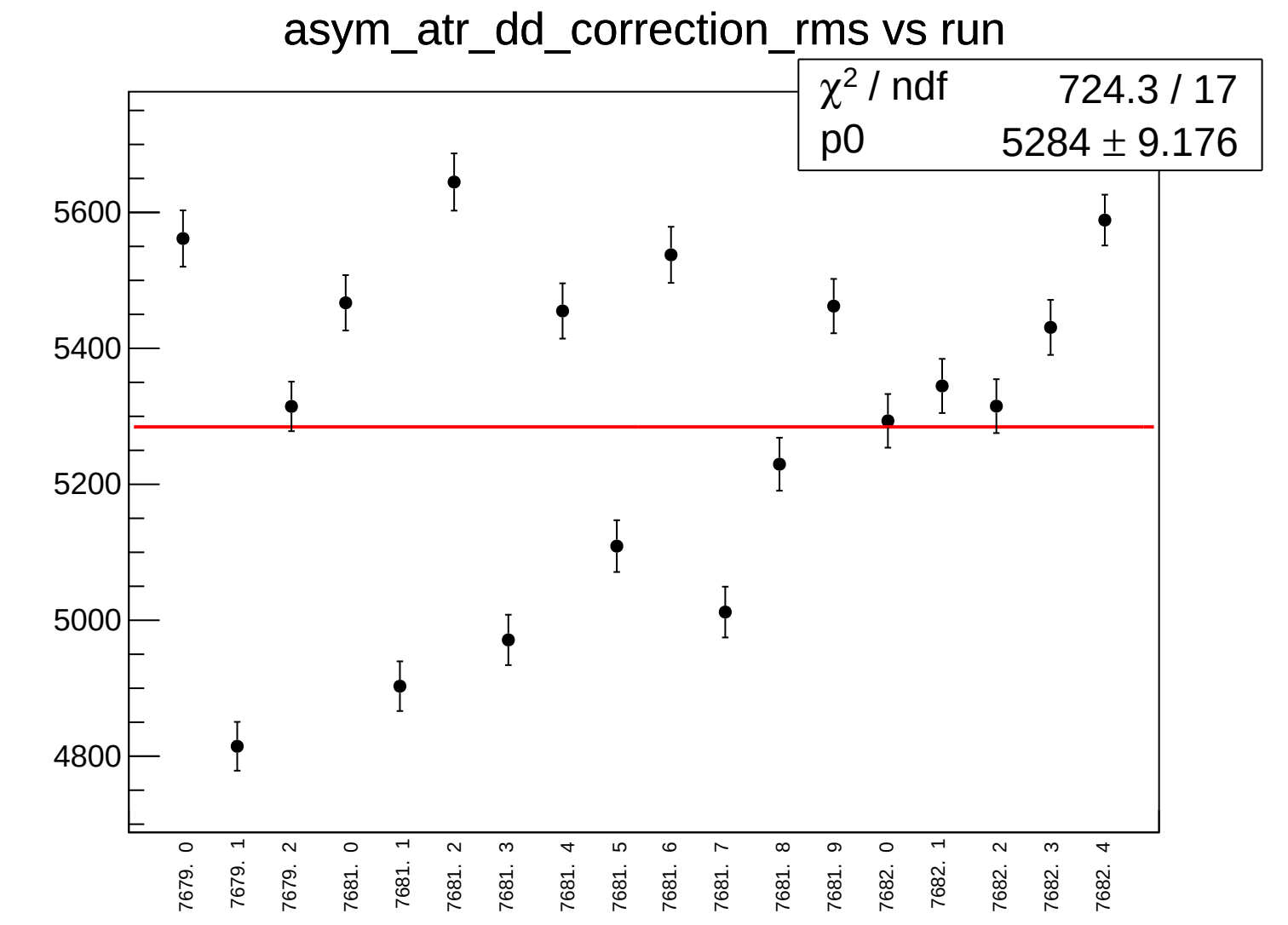

asym_atr_avg_rms vs run
χ² / ndf 307.5 / 17
p0 7251 ± 12.58
7600
7400
7200
7000
6800
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

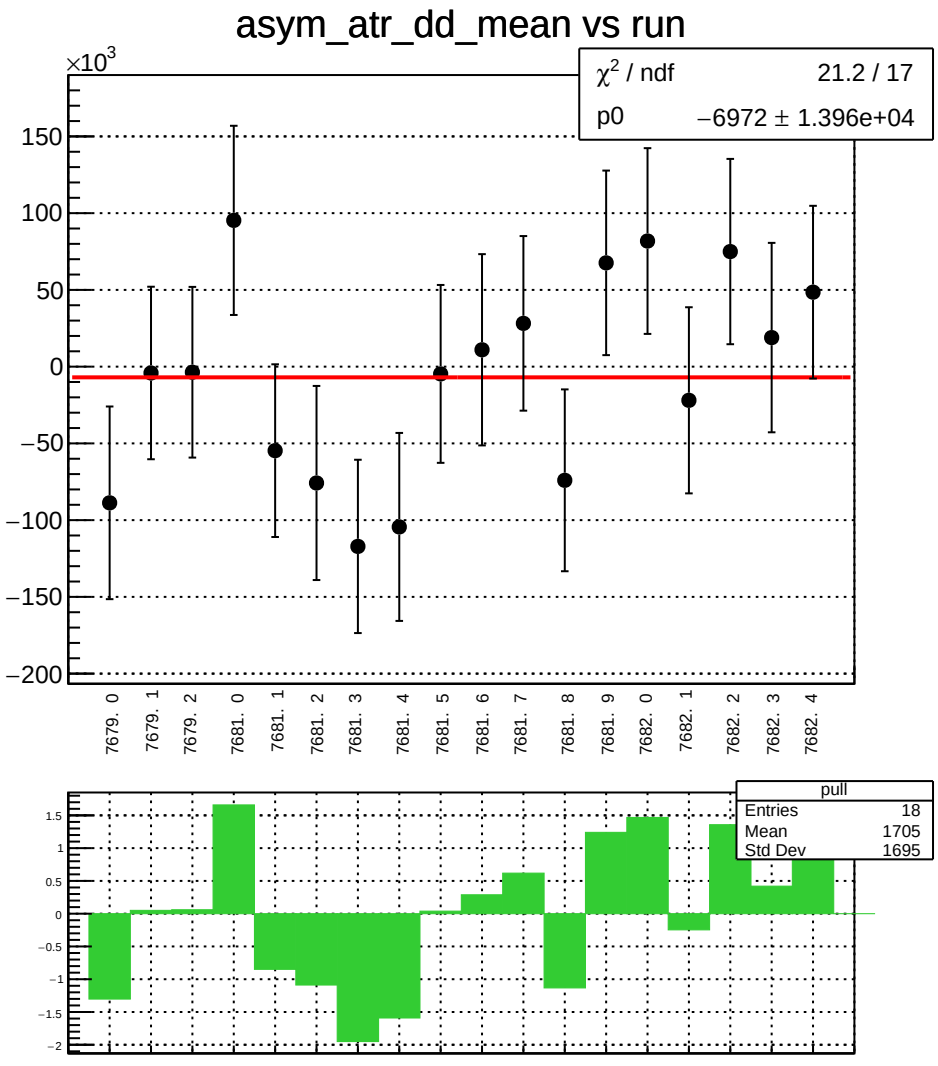

dit_asym_atr_dd_mean vs run
χ² / ndf 17.28 / 17
p0 −3712 ± 5548
60000
40000
20000
0
−20000
−40000
−60000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 1117
Std Dev 1107
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 18
Mean 0.002193
Std Dev 0.9797
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

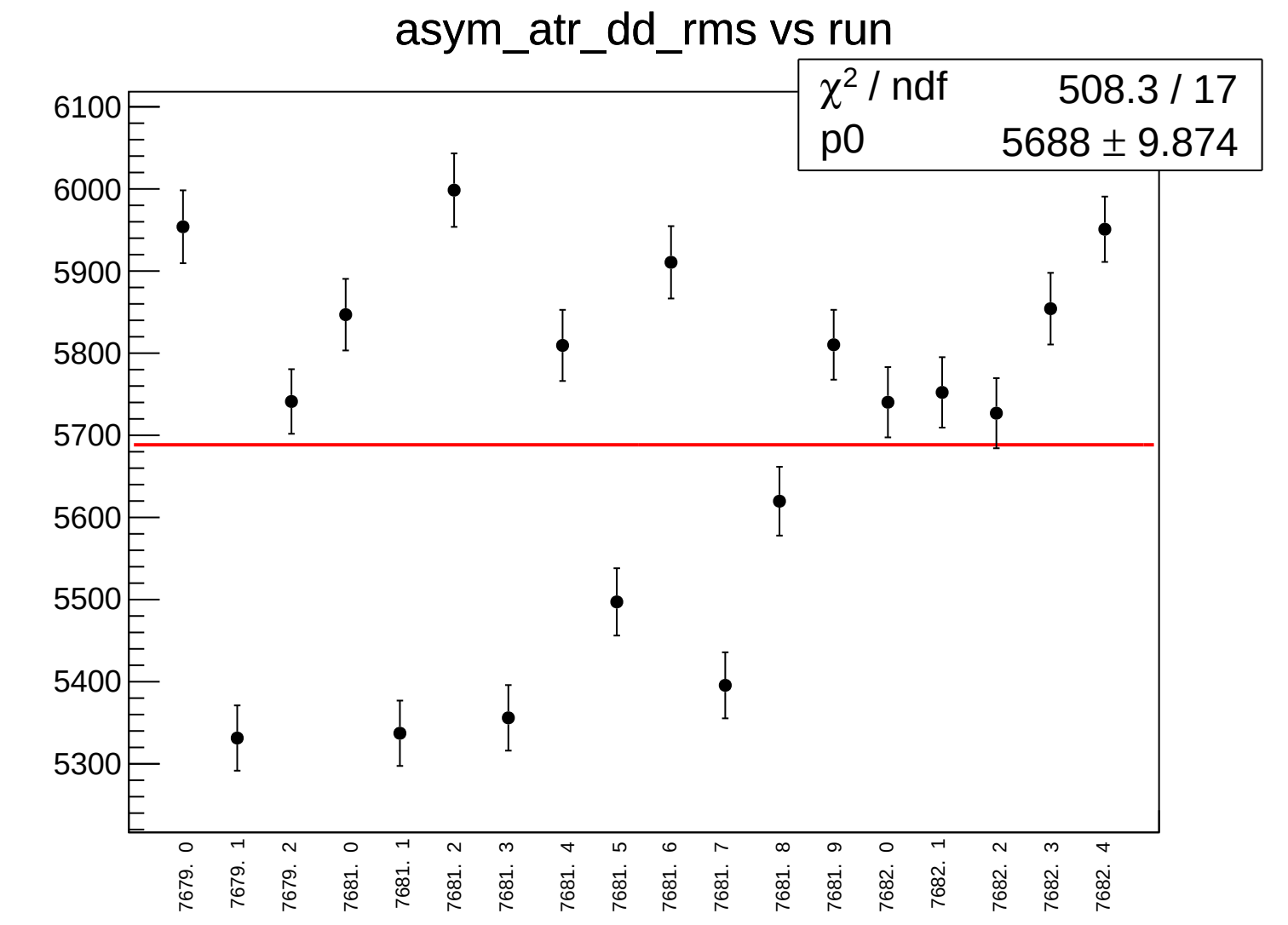

dit_asym_atr_dd_rms vs run
χ² / ndf 13.94 / 17
p0 2262 ± 3.923
2300
2280
2260
2240
2220
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

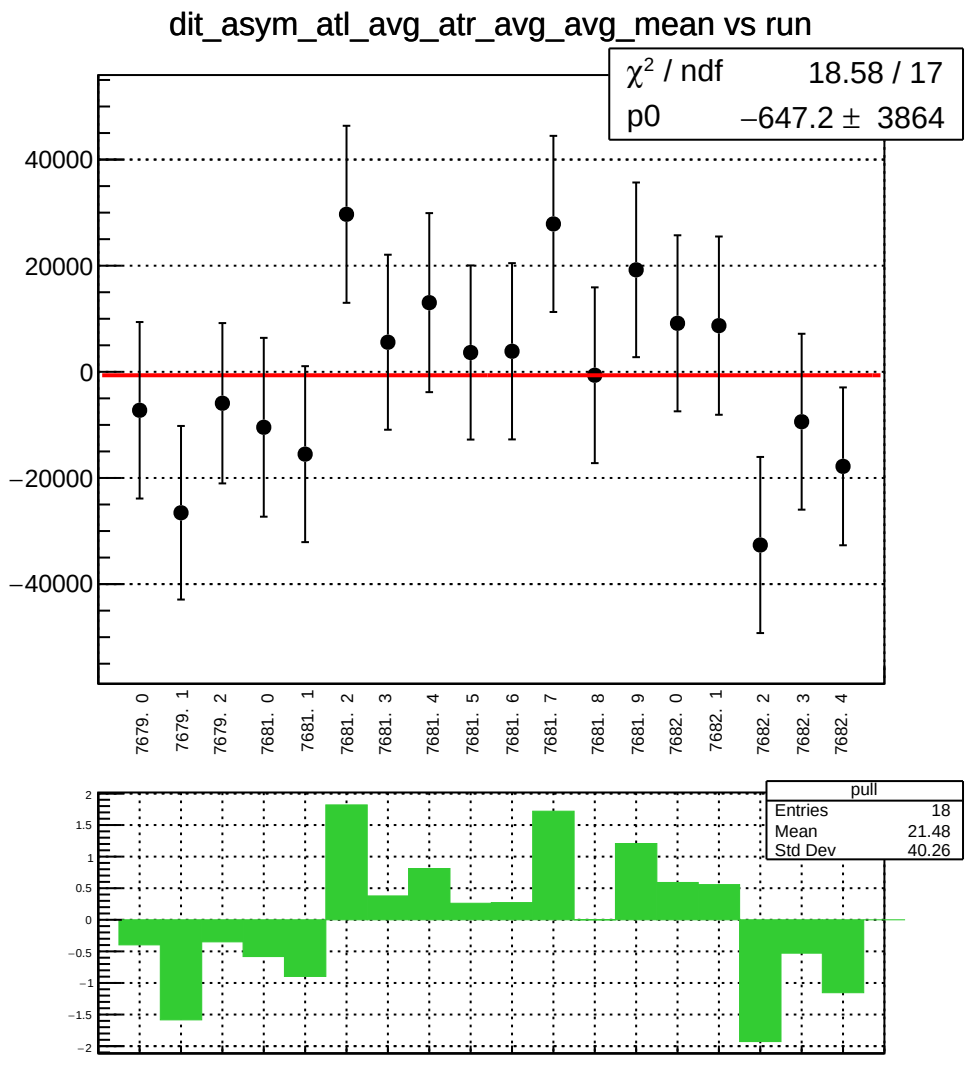

asym_atr_dd_correction_mean vs run
×10^3
χ² / ndf 16.38 / 17
p0 2667 ± 1.298e+04
150
100
50
0
−50
−100
−150
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −324.2
Std Dev 334.5
1.5
1
0.5
0
−0.5
−1
−1.5

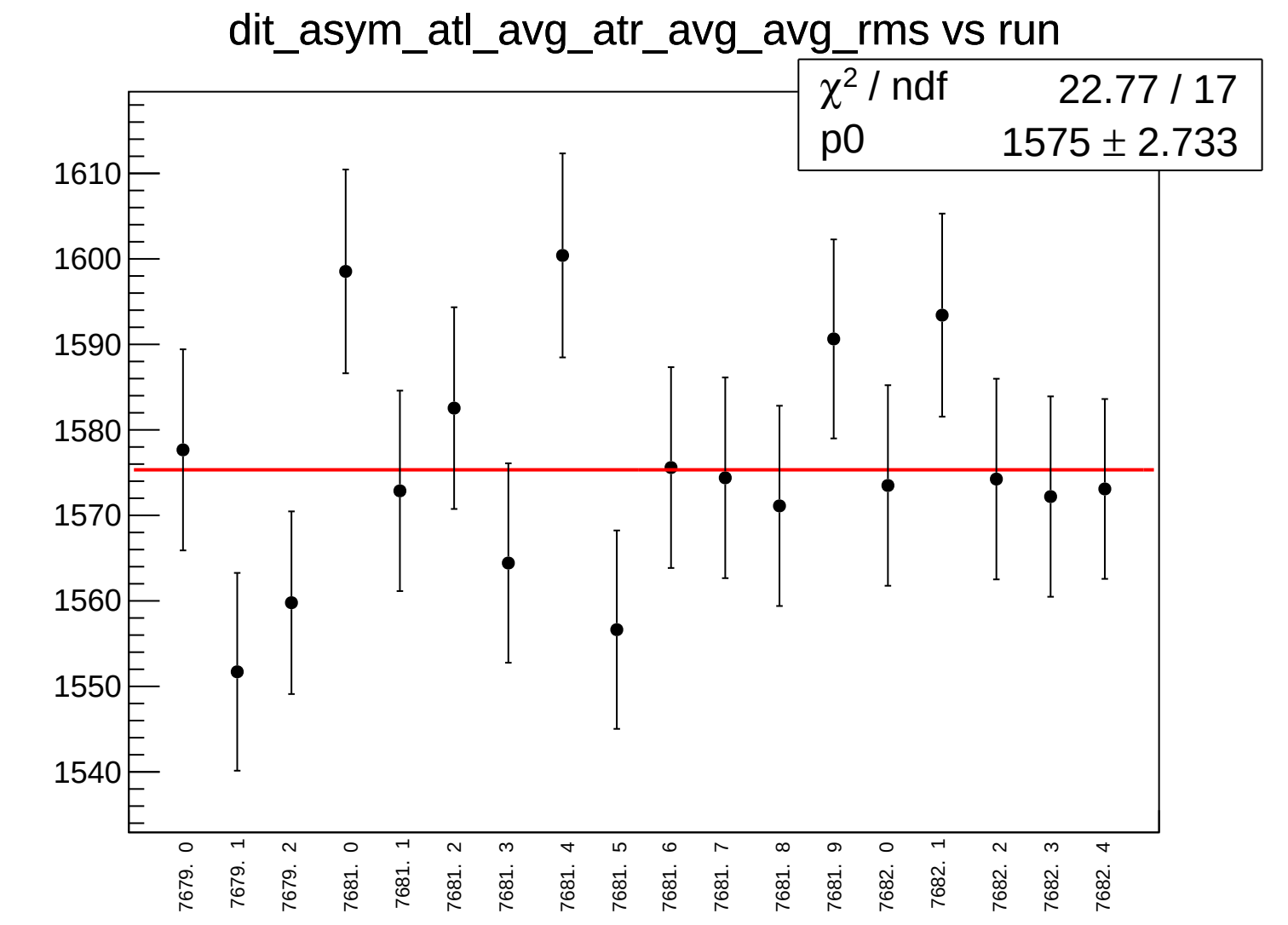

pull1D
Entries 18
Mean 0.004753
Std Dev 0.9538
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

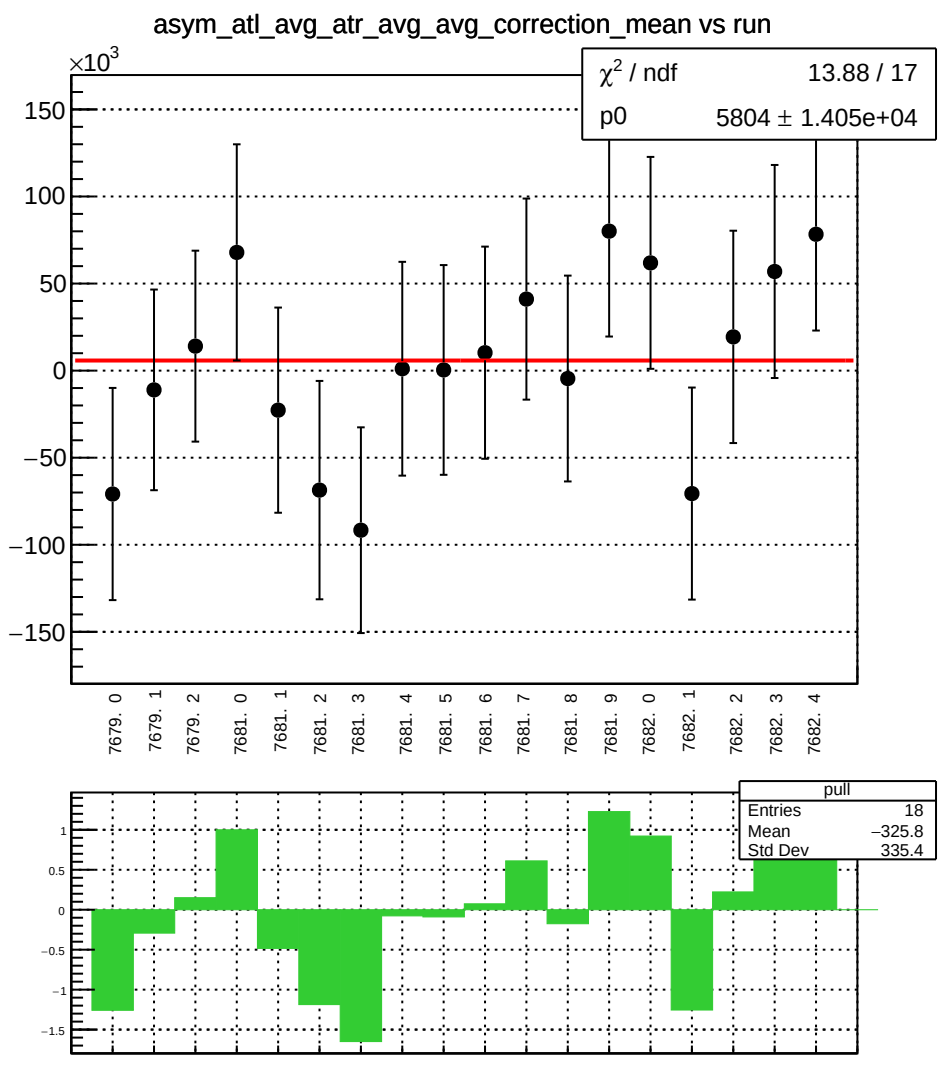

asym_atr_dd_correction_rms vs run
χ² / ndf 724.3 / 17
p0 5284 ± 9.176
5600
5400
5200
5000
4800
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

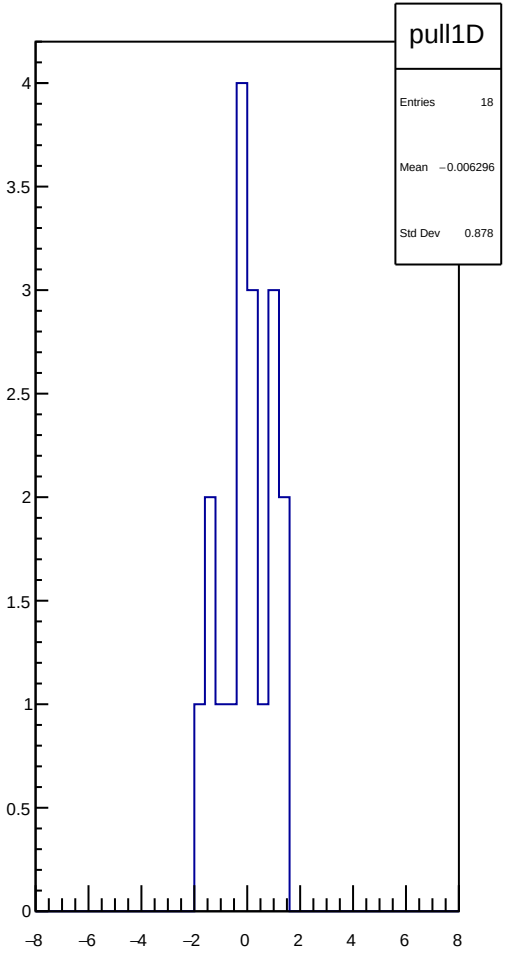

asym_atr_dd_mean vs run
×10^3
χ² / ndf 21.2 / 17
p0 −6972 ± 1.396e+04
150
100
50
0
−50
−100
−150
−200
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 1705
Std Dev 1695
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 18
Mean 0.001449
Std Dev 1.085
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

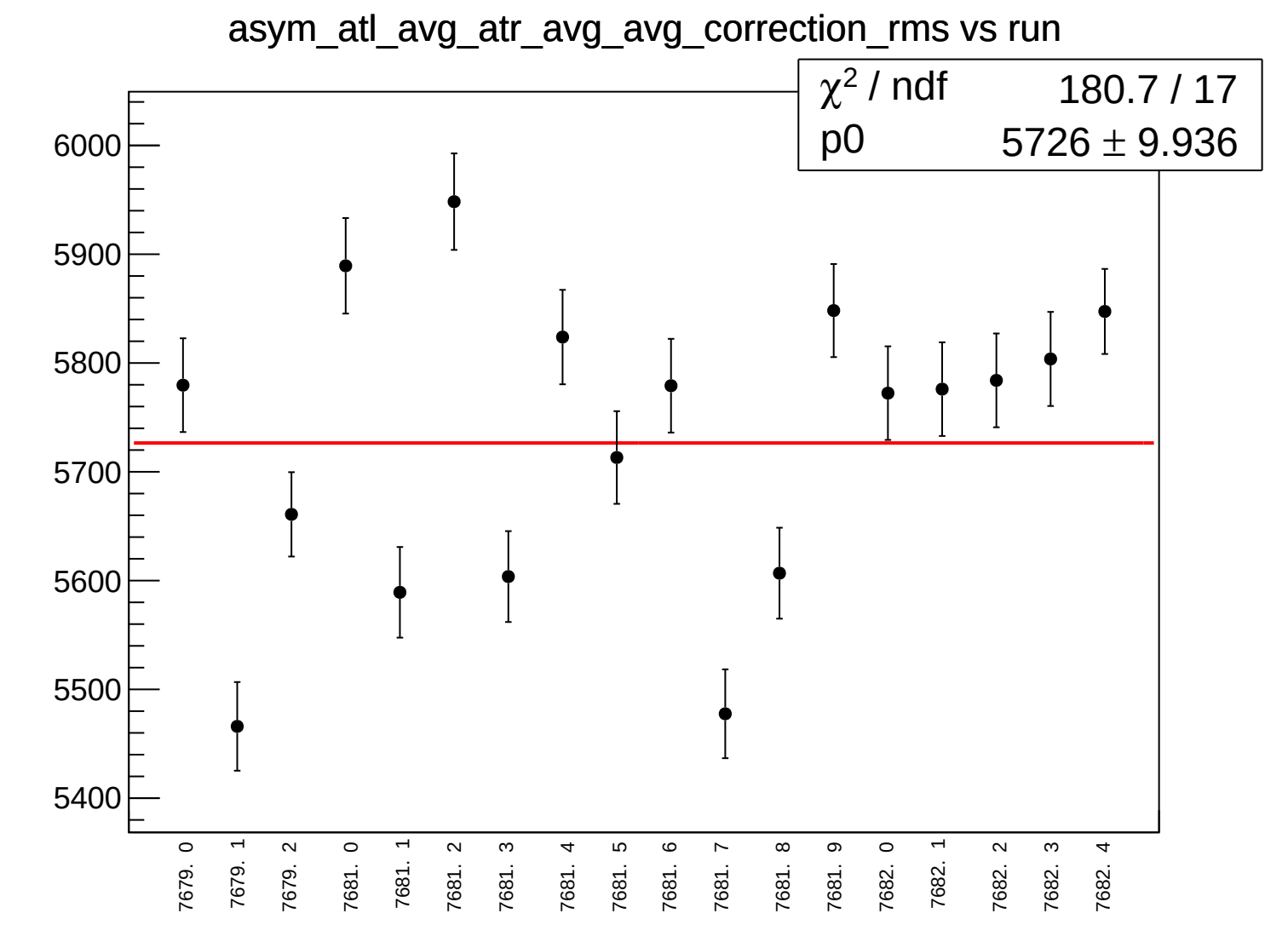

asym_atr_dd_rms vs run
χ² / ndf 508.3 / 17
p0 5688 ± 9.874
6100
6000
5900
5800
5700
5600
5500
5400
5300
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

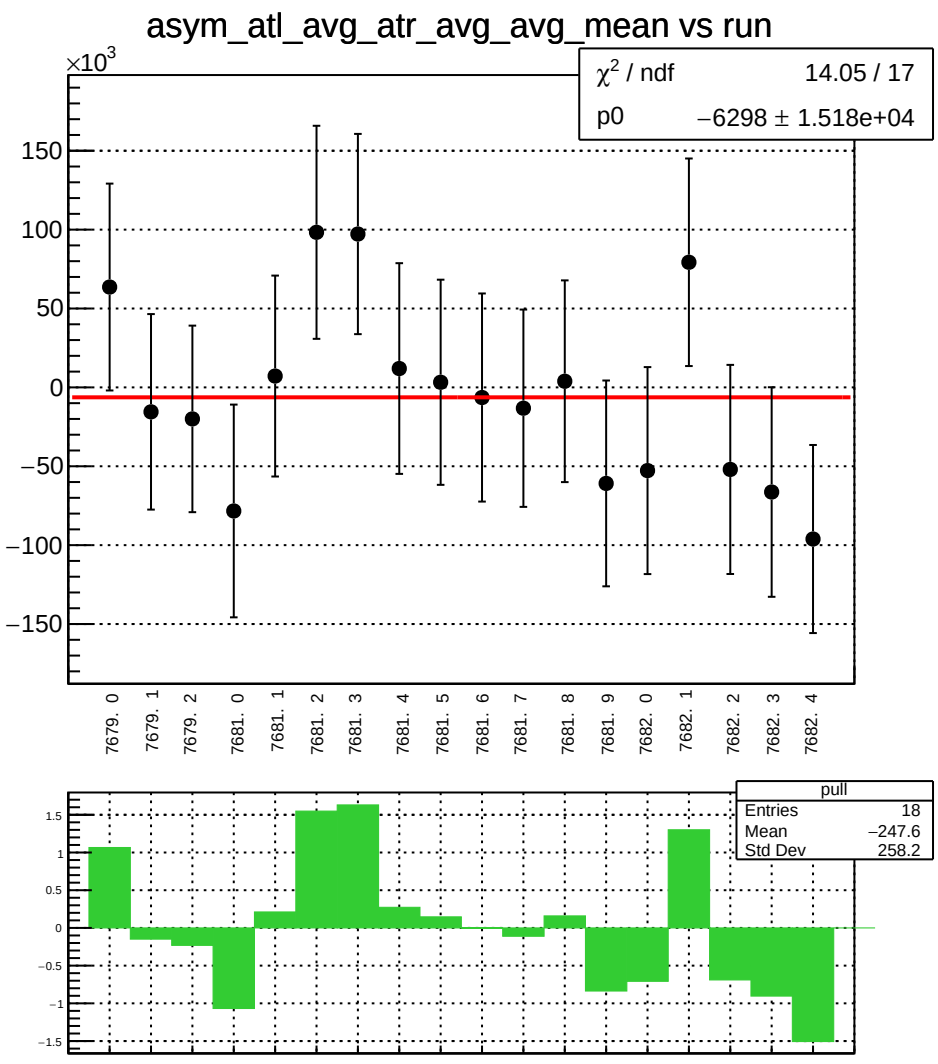

dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 18.58 / 17
p0 −647.2 ± 3864
40000
20000
0
−20000
−40000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 21.48
Std Dev 40.26
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 18
Mean 0.01095
Std Dev 1.016
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

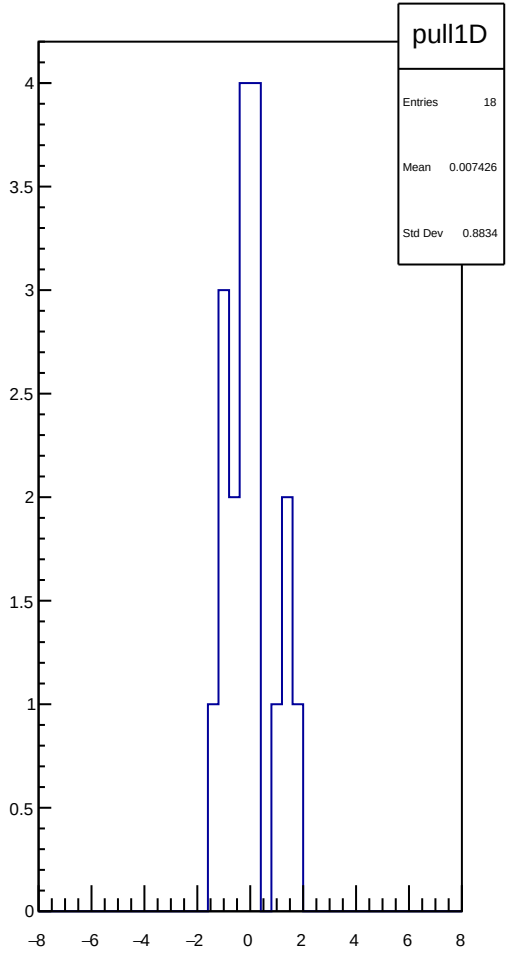

dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 22.77 / 17
p0 1575 ± 2.733
1610
1600
1590
1580
1570
1560
1550
1540
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

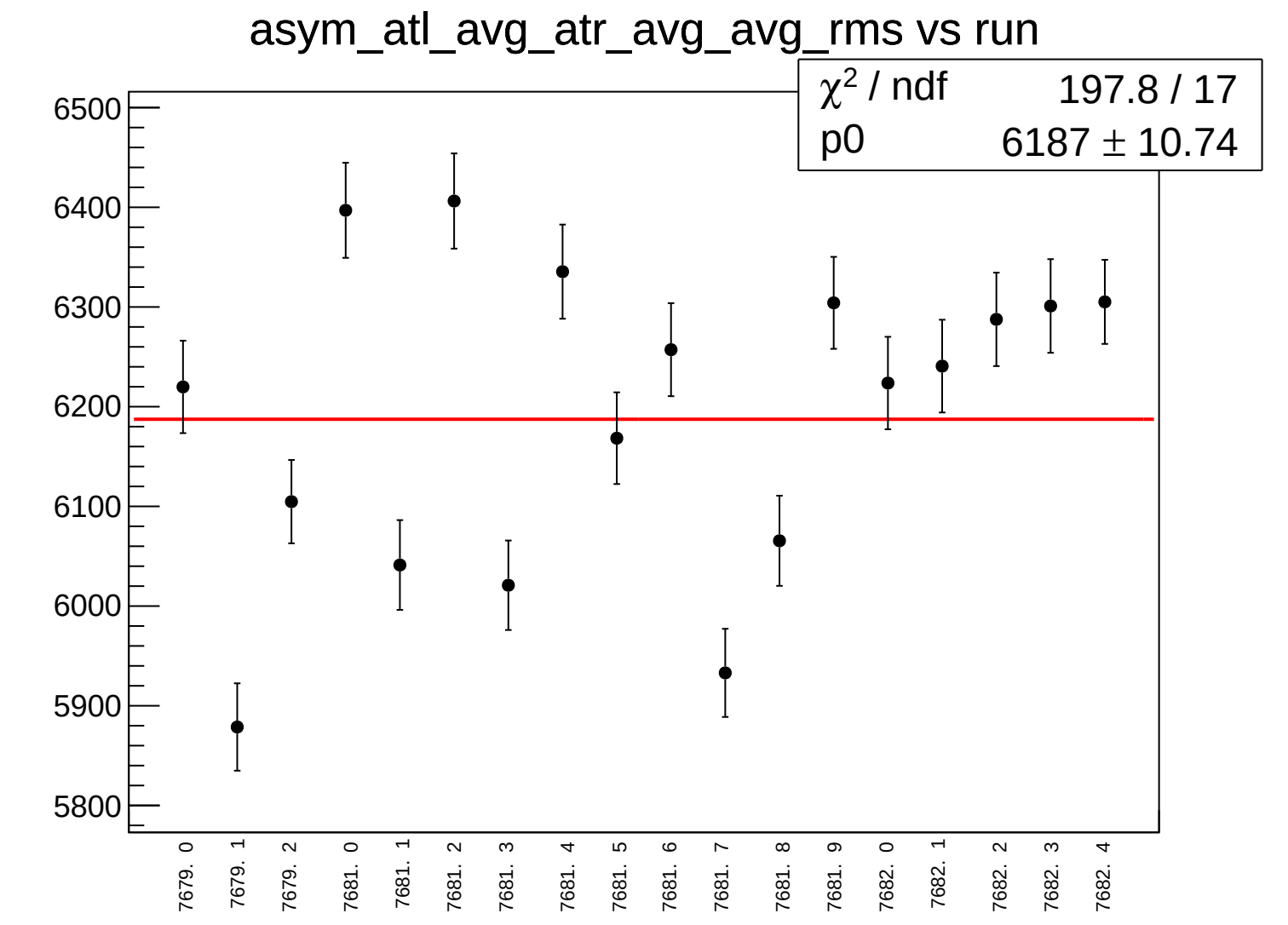

asym_atl_avg_atr_avg_avg_correction_mean vs run
×10^3
χ² / ndf 13.88 / 17
p0 5804 ± 1.405e+04
150
100
50
0
−50
−100
−150
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −325.8
Std Dev 335.4
1
0.5
0
−0.5
−1
−1.5

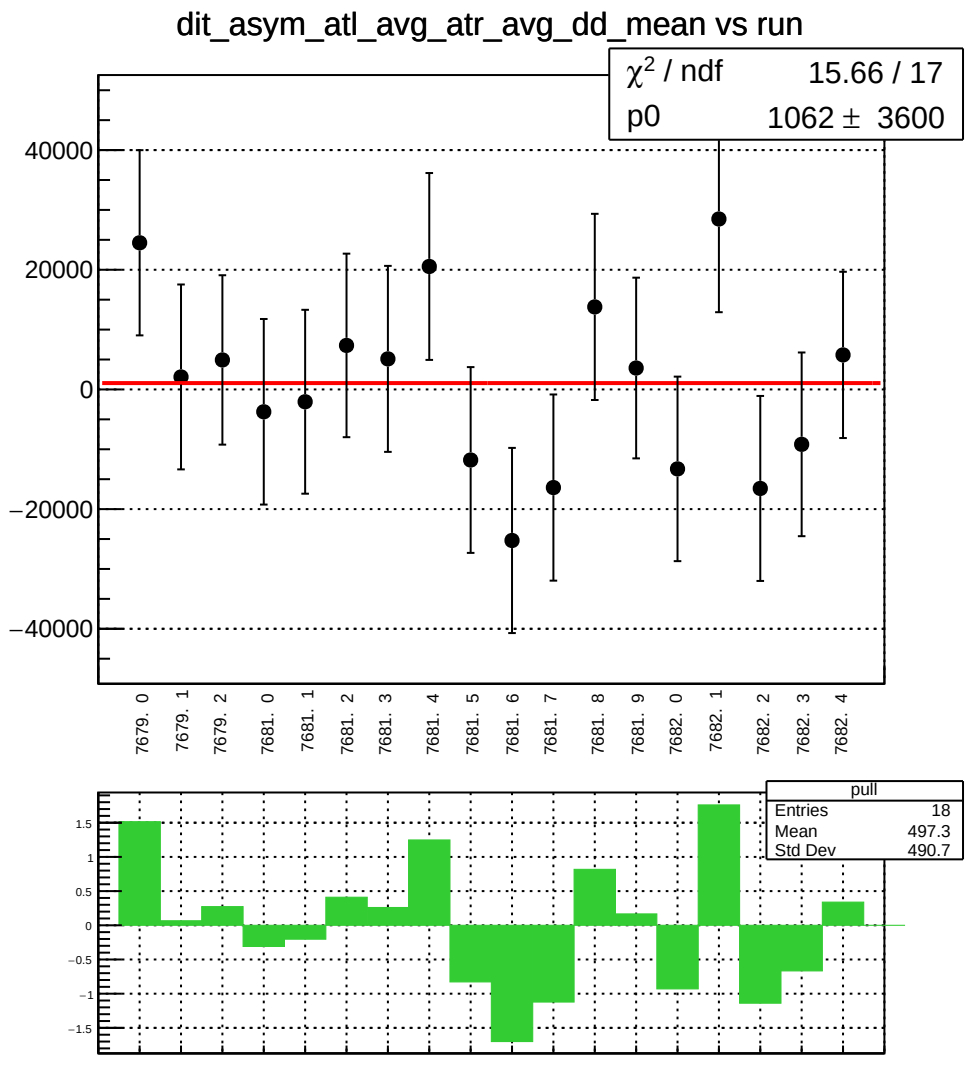

pull1D
Entries 18
Mean −0.006296
Std Dev 0.878
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

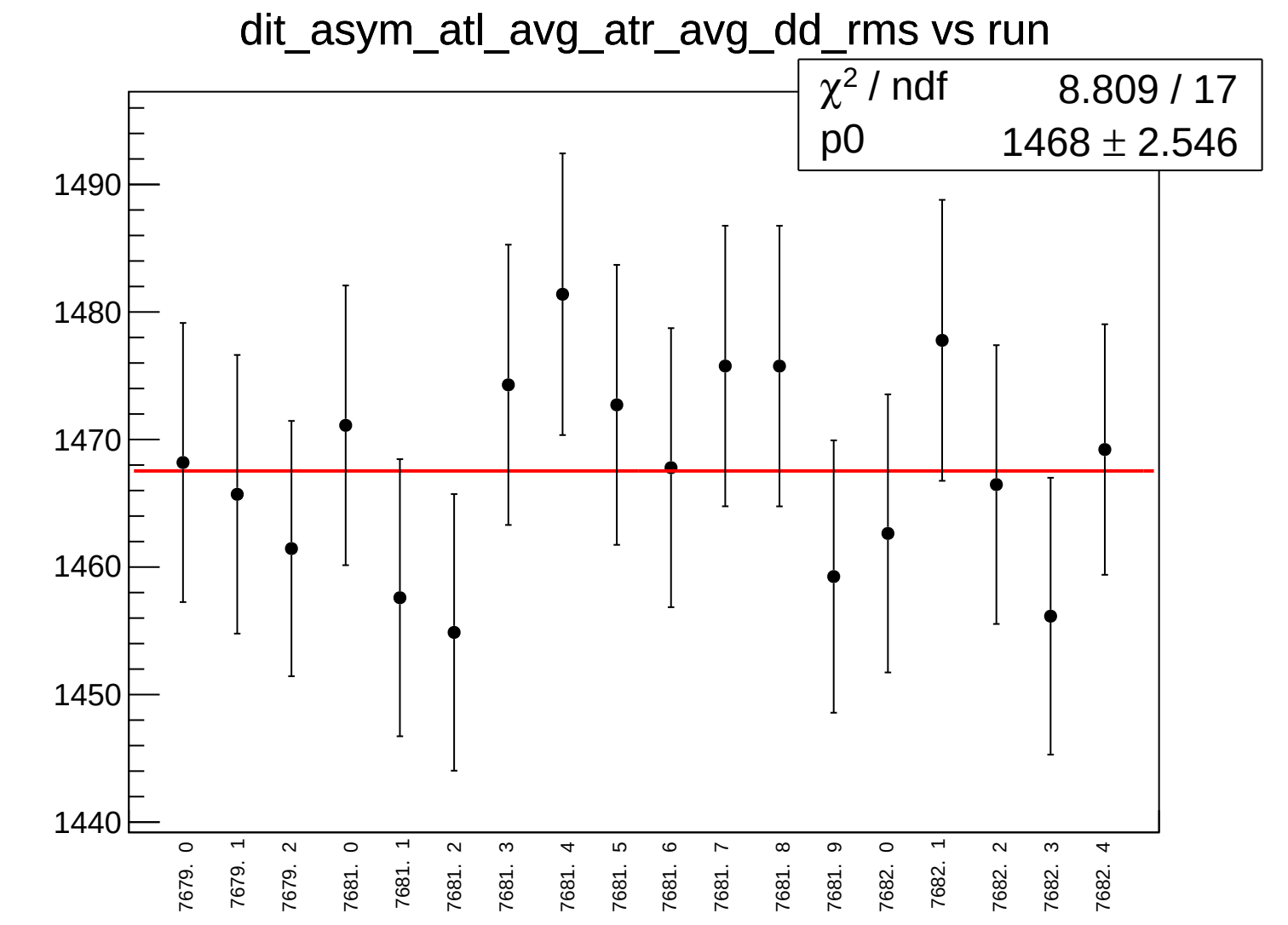

asym_atl_avg_atr_avg_avg_correction_rms vs run
χ² / ndf 180.7 / 17
p0 5726 ± 9.936
6000
5900
5800
5700
5600
5500
5400
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

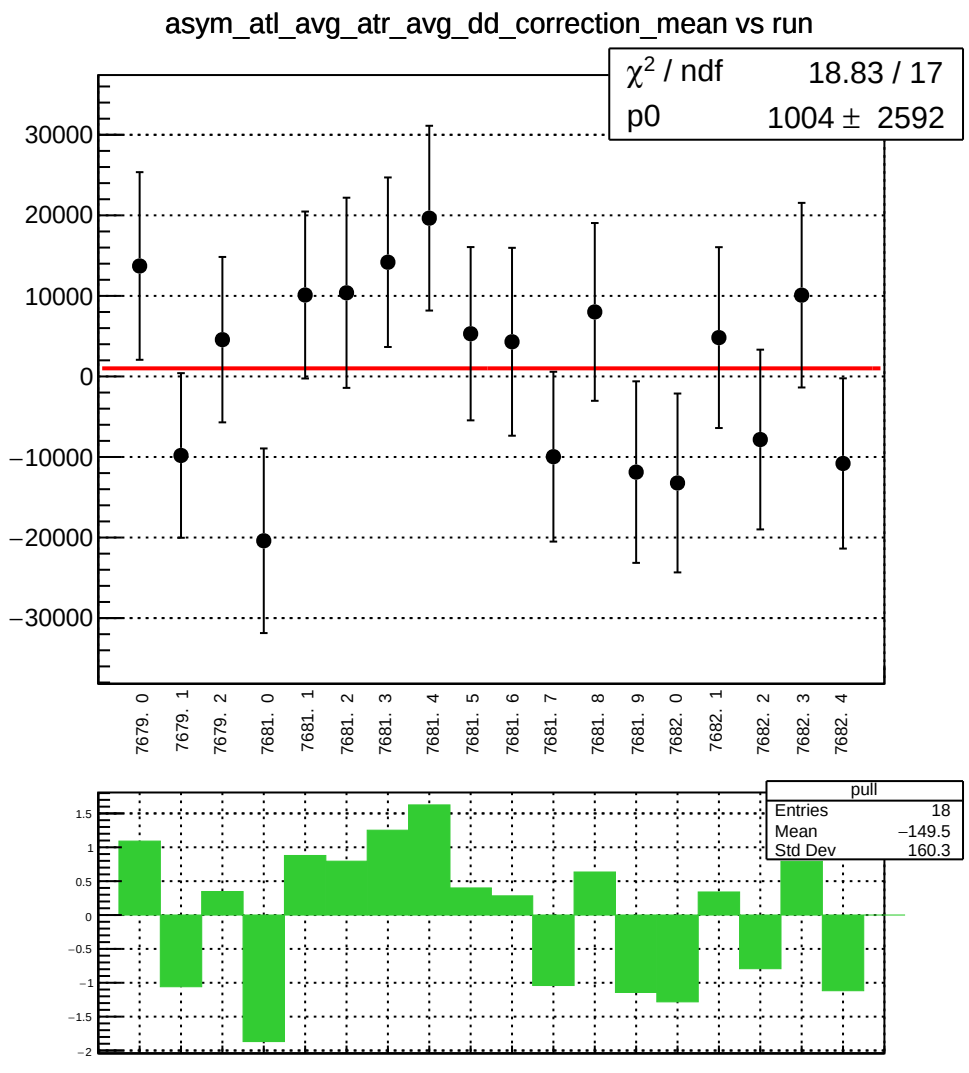

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 14.05 / 17
p0 −6298 ± 1.518e+04
150
100
50
0
−50
−100
−150
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −247.6
Std Dev 258.2
1.5
1
0.5
0
−0.5
−1
−1.5

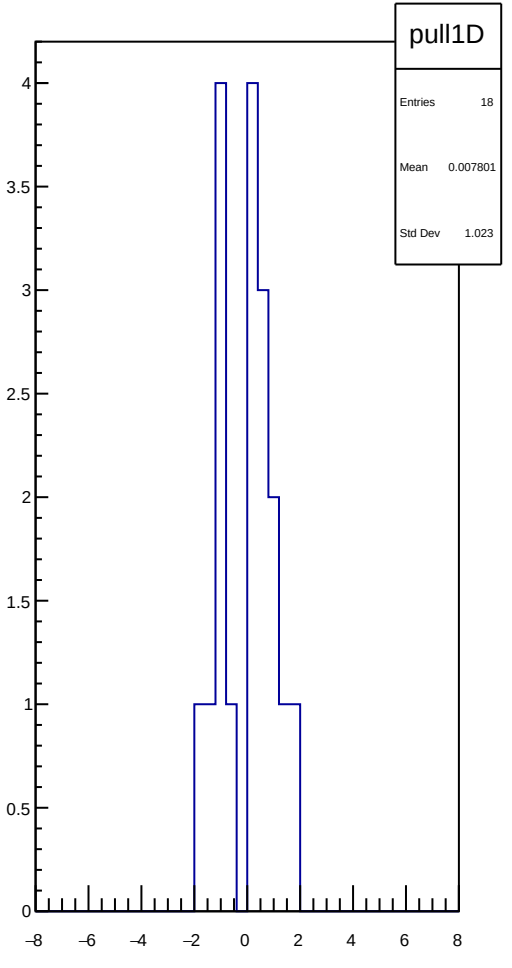

pull1D
Entries 18
Mean 0.007426
Std Dev 0.8834
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

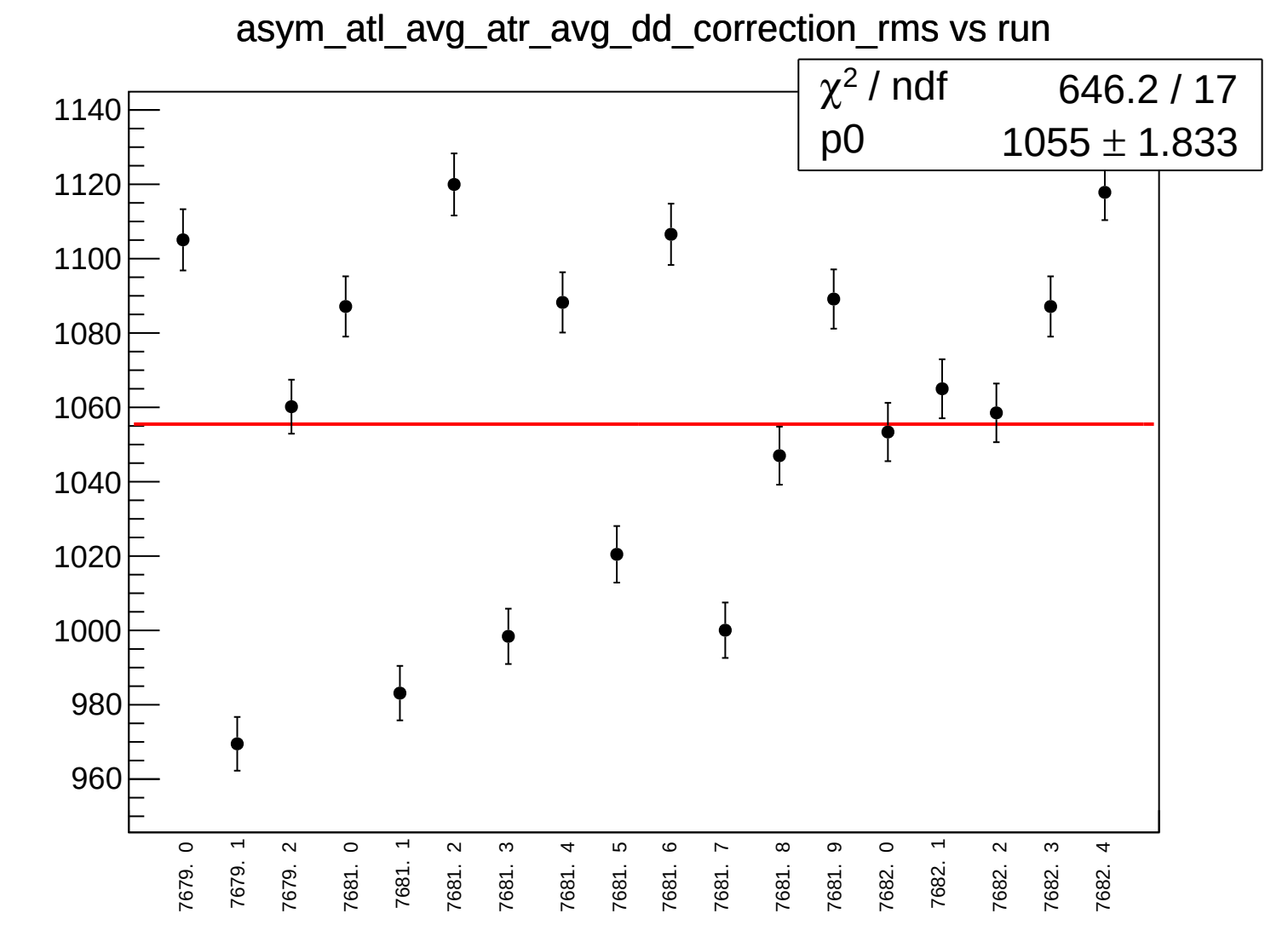

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 197.8 / 17
p0 6187 ± 10.74
6500
6400
6300
6200
6100
6000
5900
5800
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

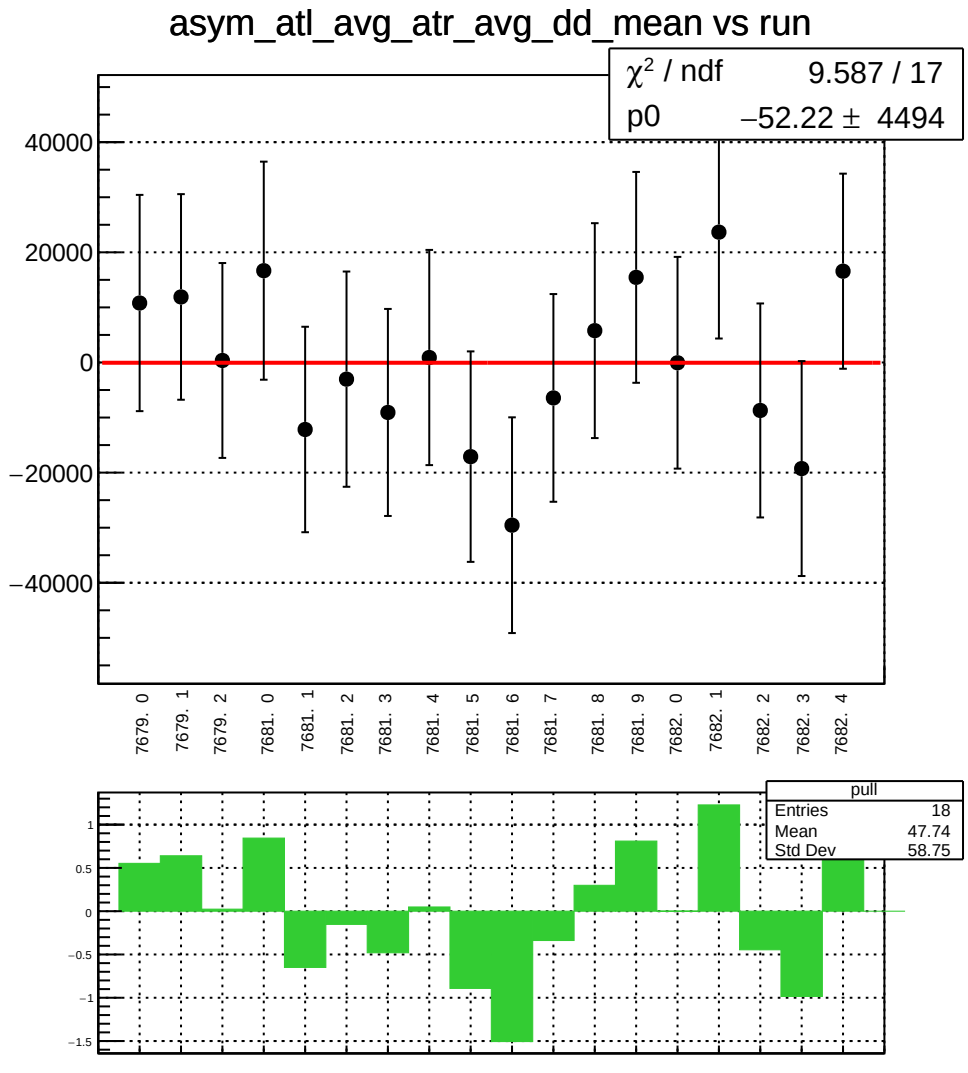

dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 15.66 / 17
p0 1062 ± 3600
40000
20000
0
−20000
−40000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 497.3
Std Dev 490.7
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 18
Mean −0.002277
Std Dev 0.9327
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

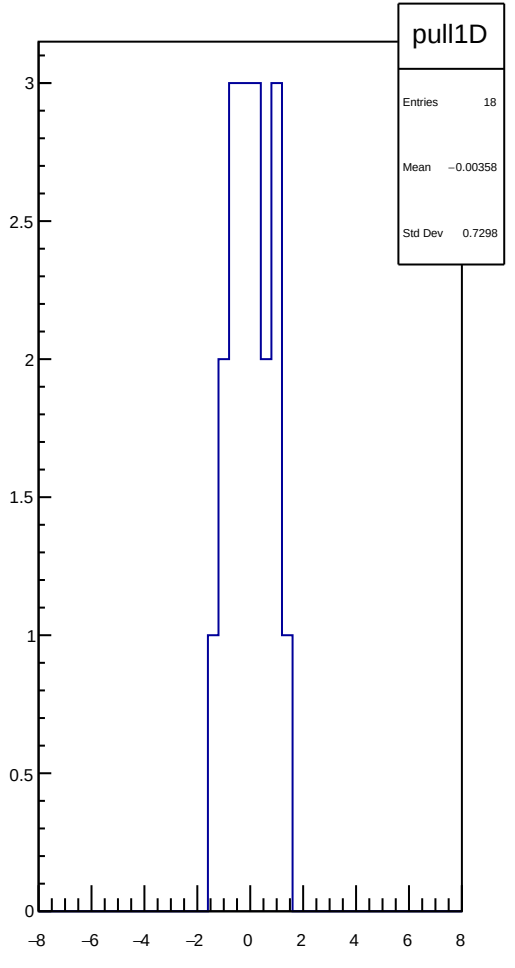

dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 8.809 / 17
p0 1468 ± 2.546
1490
1480
1470
1460
1450
1440
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

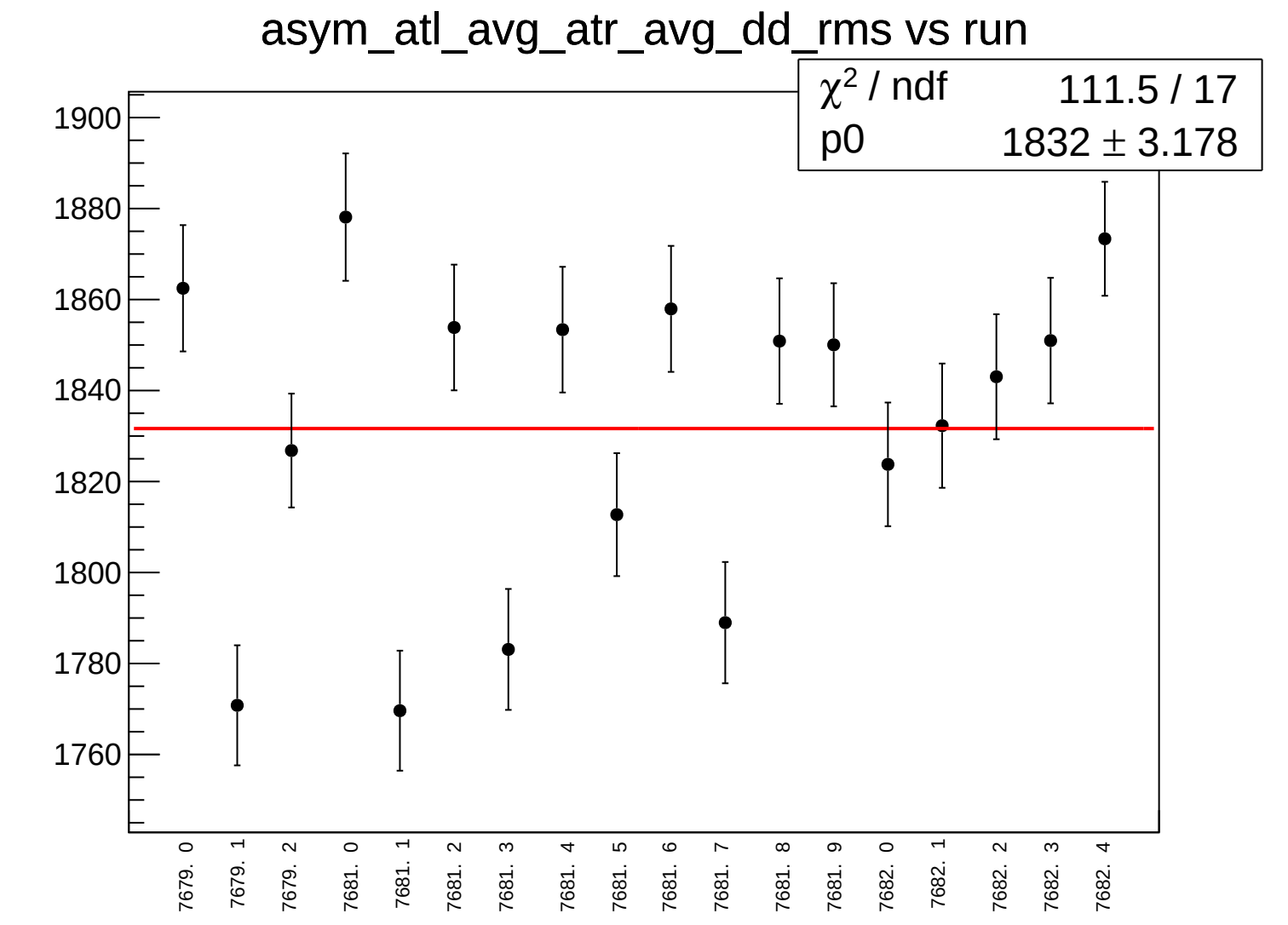

asym_atl_avg_atr_avg_dd_correction_mean vs run
χ² / ndf 18.83 / 17
p0 1004 ± 2592
30000
20000
10000
0
−10000
−20000
−30000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −149.5
Std Dev 160.3
1.5
1
0.5
0
−0.5
−1
−1.5
−2

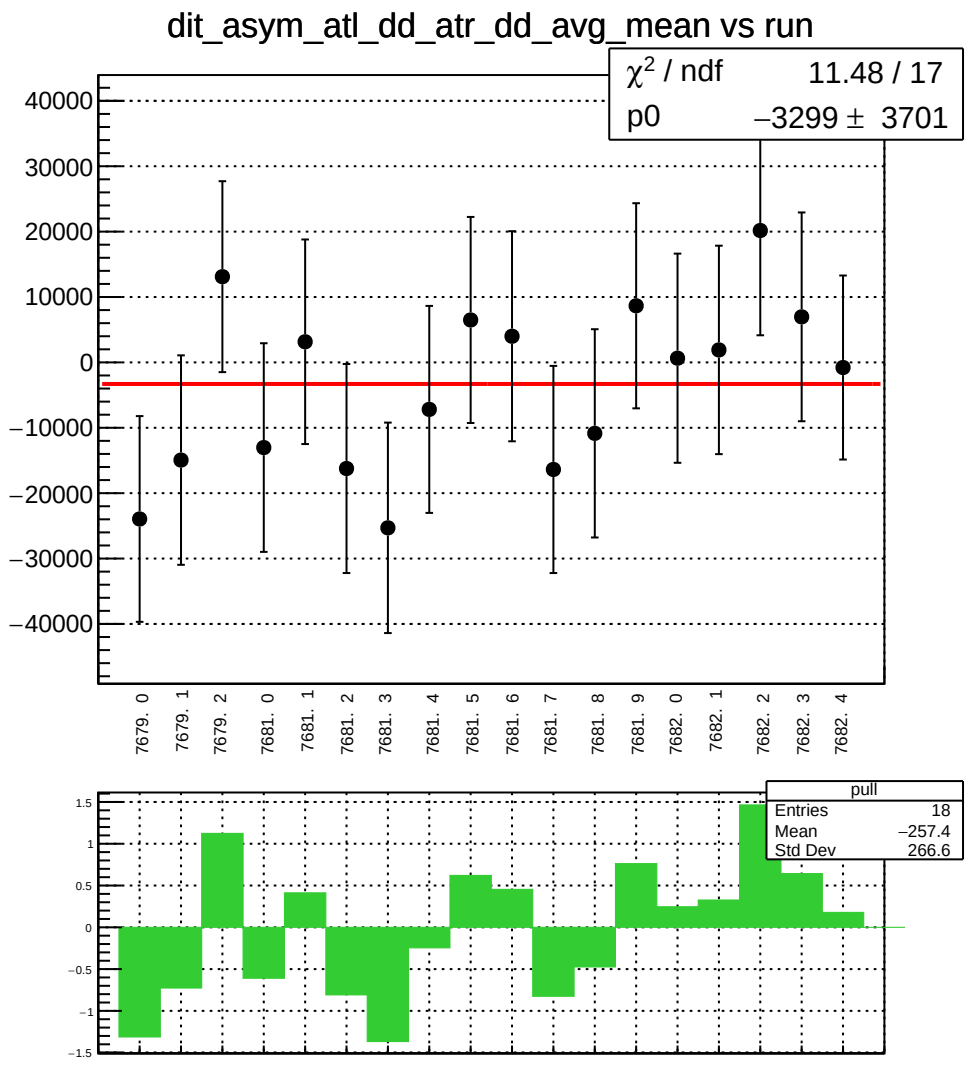

pull1D
Entries 18
Mean 0.007801
Std Dev 1.023
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

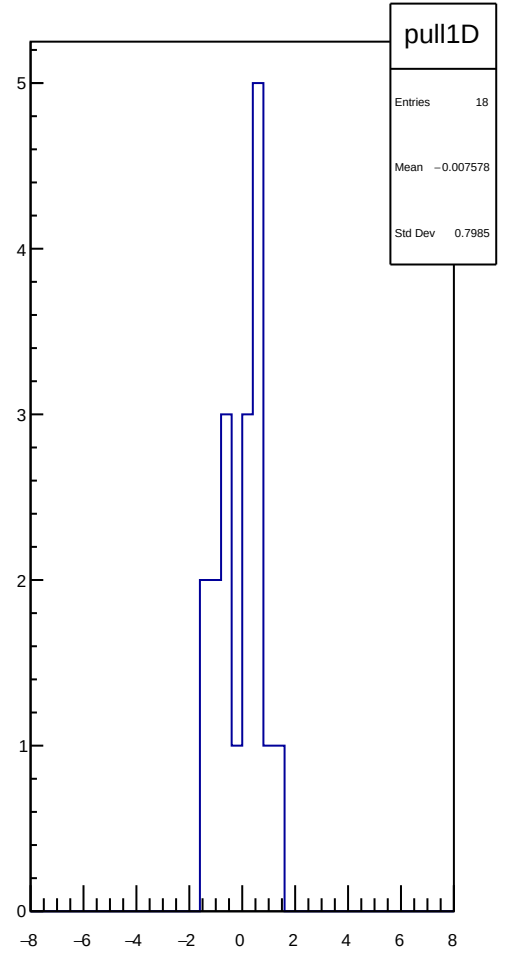

asym_atl_avg_atr_avg_dd_correction_rms vs run
χ² / ndf 646.2 / 17
p0 1055 ± 1.833
1140
1120
1100
1080
1060
1040
1020
1000
980
960
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

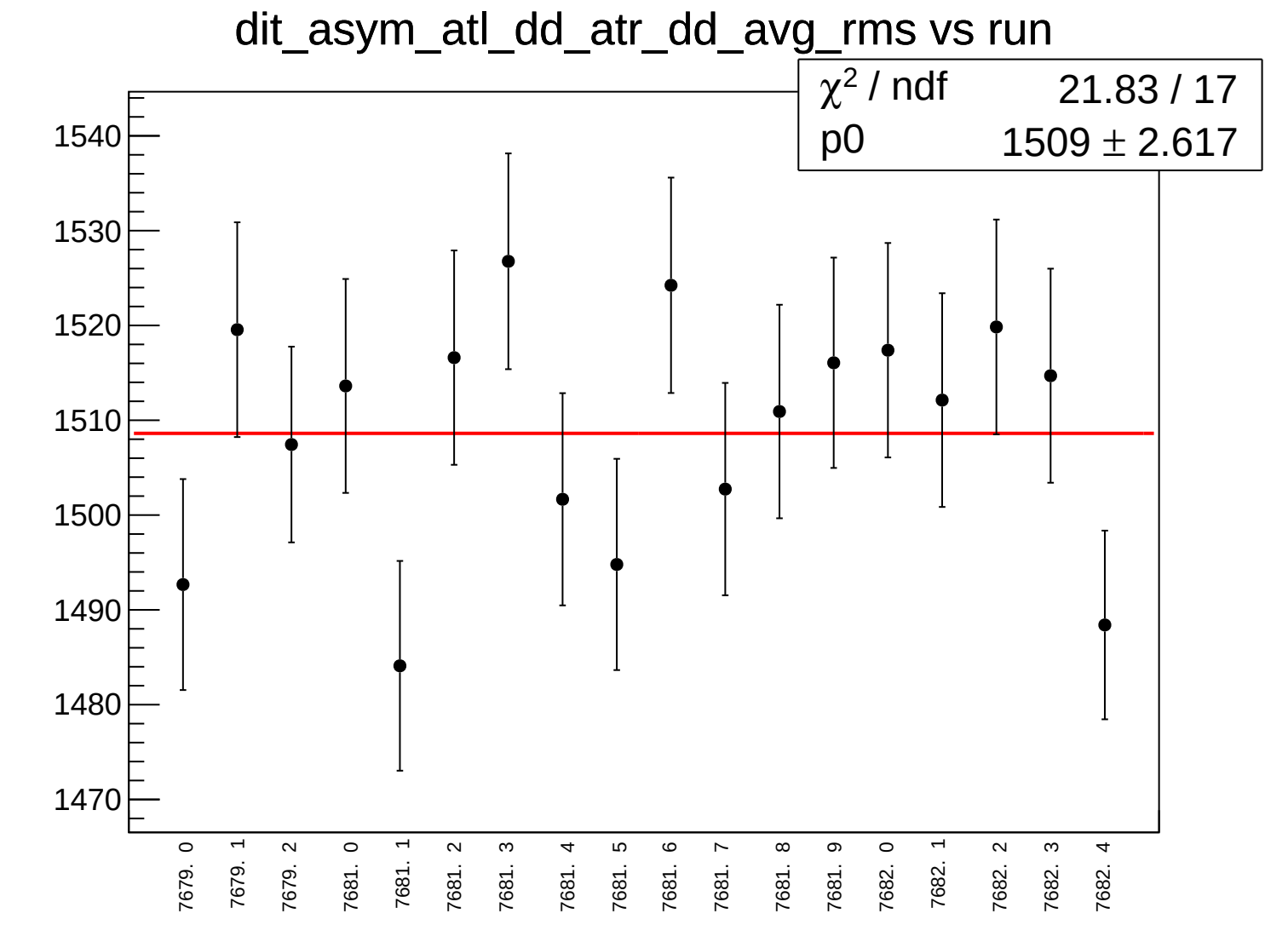

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 9.587 / 17
p0 −52.22 ± 4494
40000
20000
0
−20000
−40000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 47.74
Std Dev 58.75
1
0.5
0
−0.5
−1
−1.5

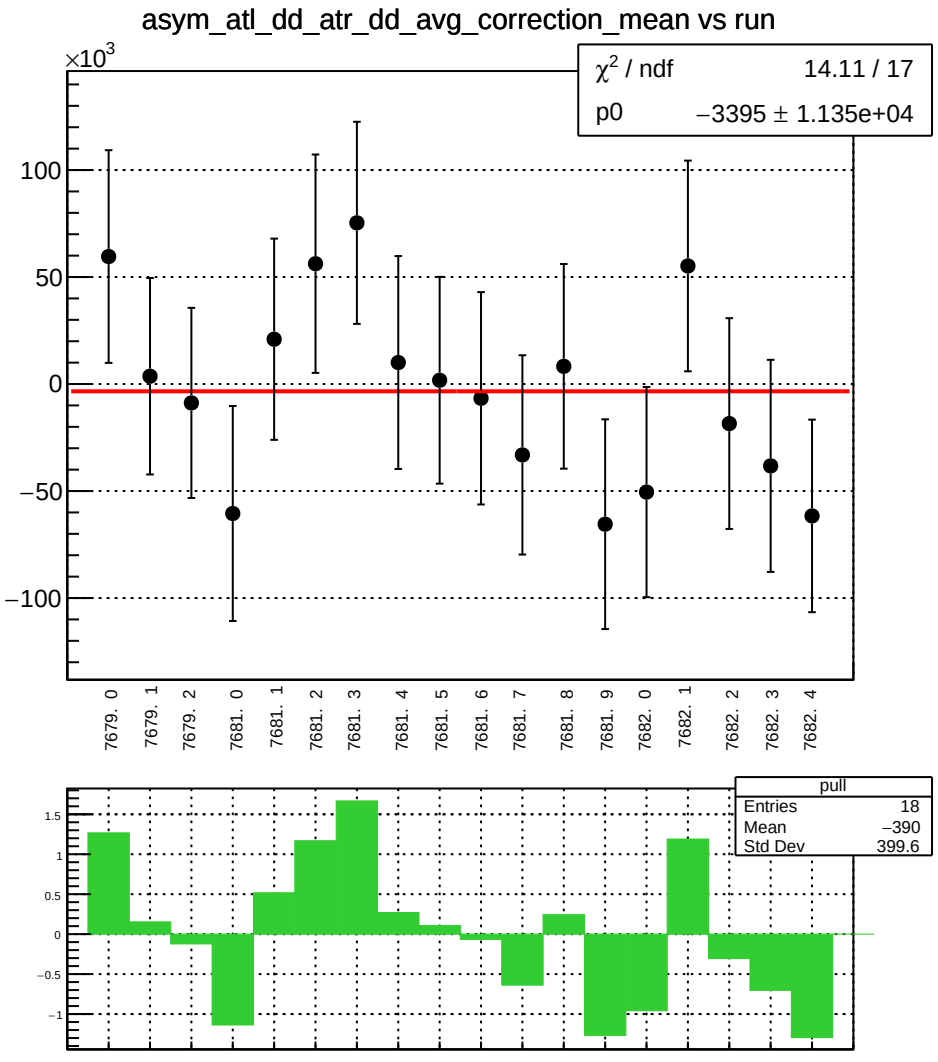

pull1D
Entries 18
Mean −0.00358
Std Dev 0.7298
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

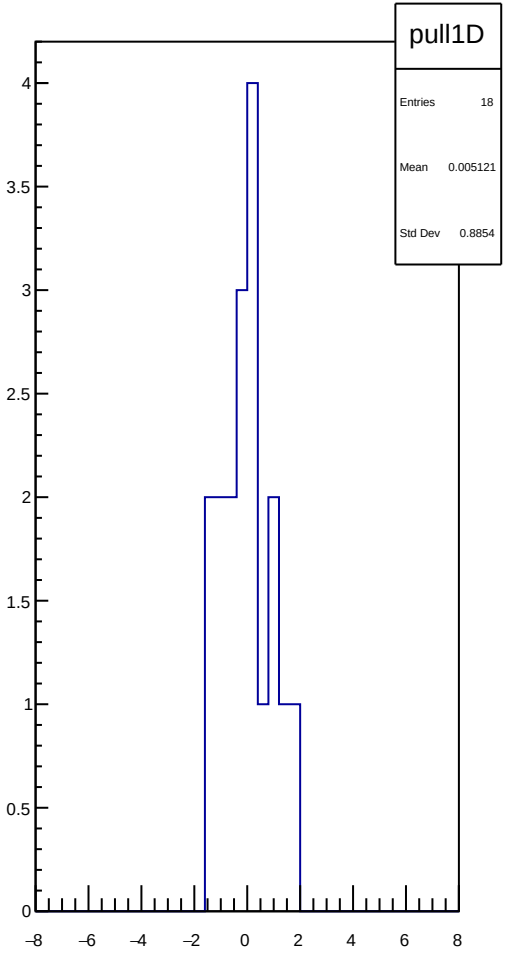

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 111.5 / 17
p0 1832 ± 3.178
1900
1880
1860
1840
1820
1800
1780
1760
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

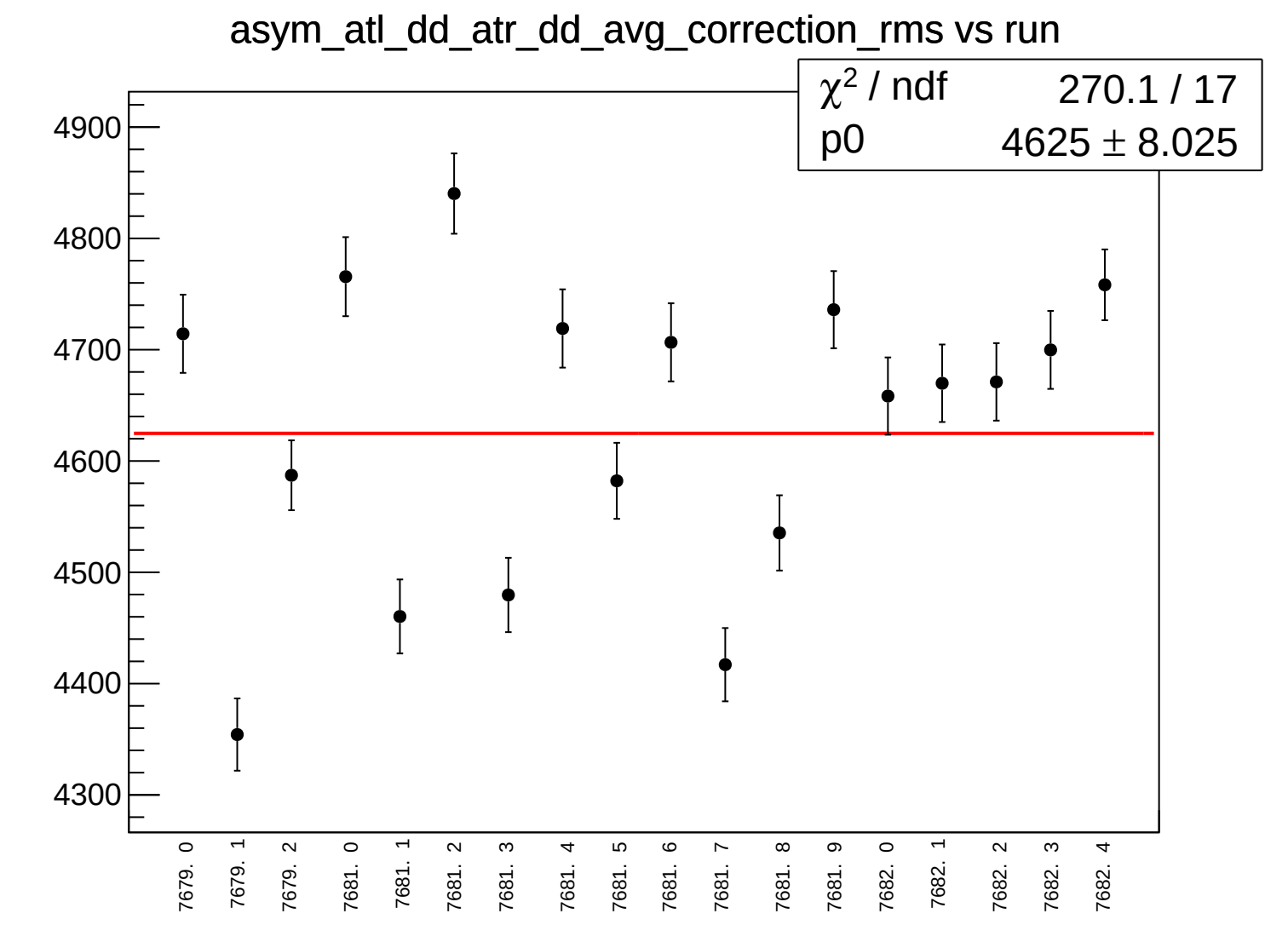

dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 11.48 / 17
p0 −3299 ± 3701
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −257.4
Std Dev 266.6
1.5
1
0.5
0
−0.5
−1
−1.5

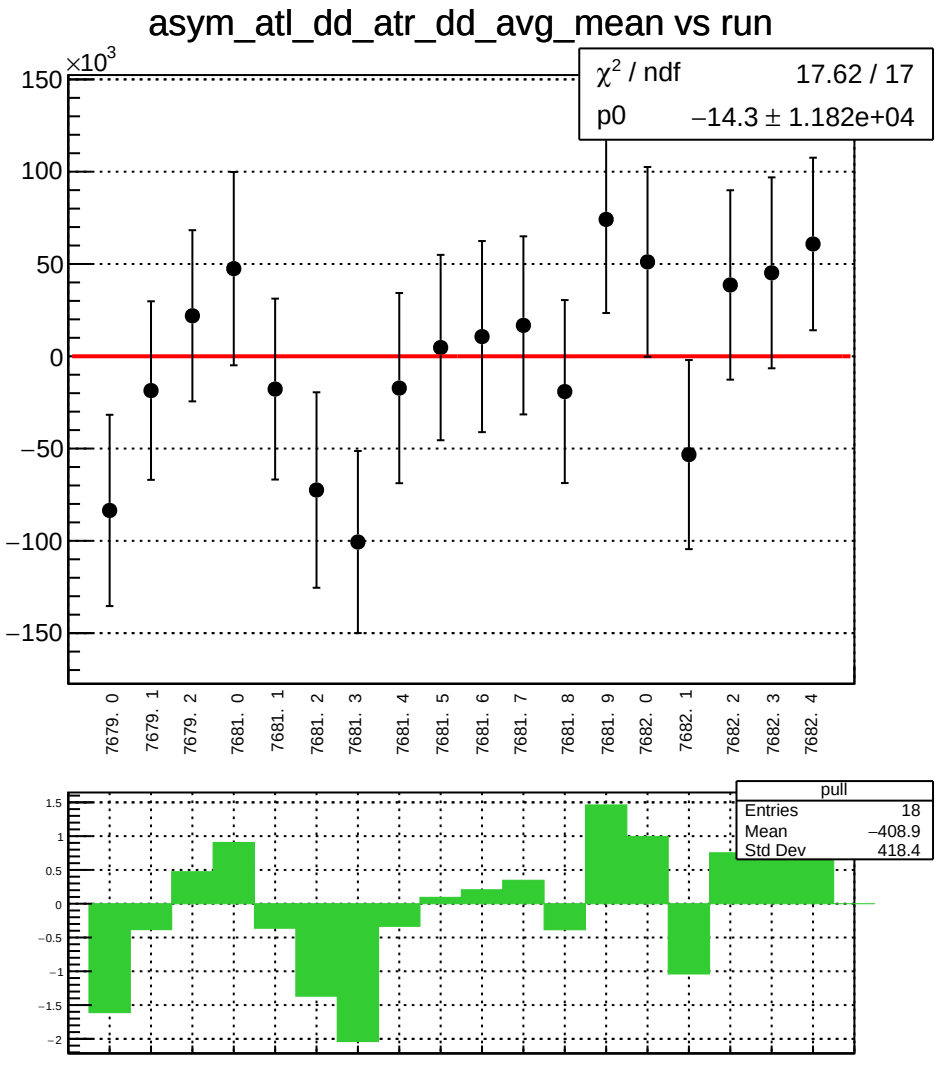

pull1D
Entries 18
Mean −0.007578
Std Dev 0.7985
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

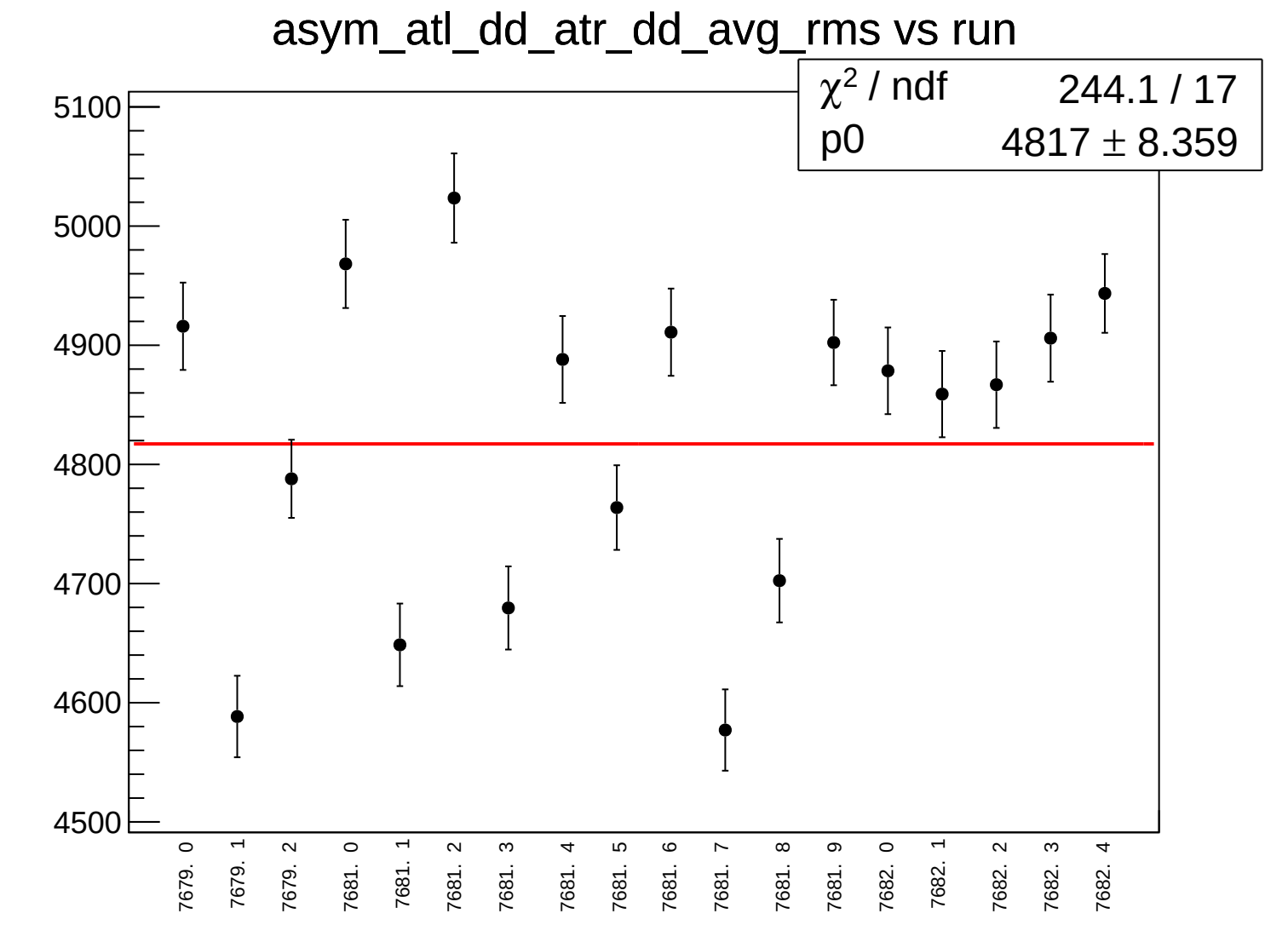

dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 21.83 / 17
p0 1509 ± 2.617
1540
1530
1520
1510
1500
1490
1480
1470
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

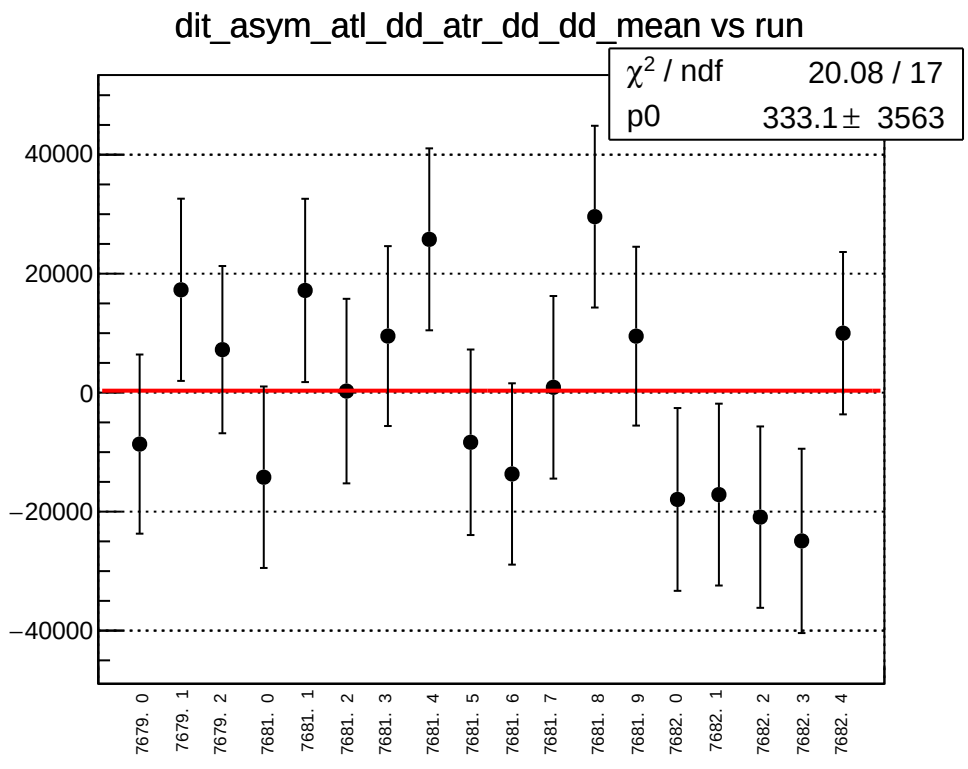

asym_atl_dd_atr_dd_avg_correction_mean vs run
×10^3
χ² / ndf 14.11 / 17
p0 −3395 ± 1.135e+04
100
50
0
−50
−100
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −390
Std Dev 399.6
1.5
1
0.5
0
−0.5
−1

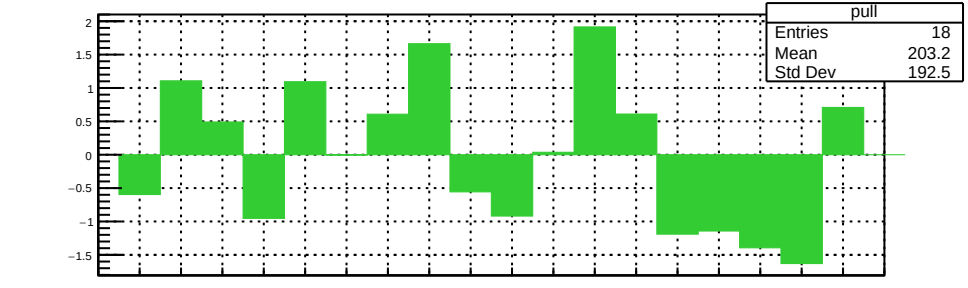

pull1D
Entries 18
Mean 0.005121
Std Dev 0.8854
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

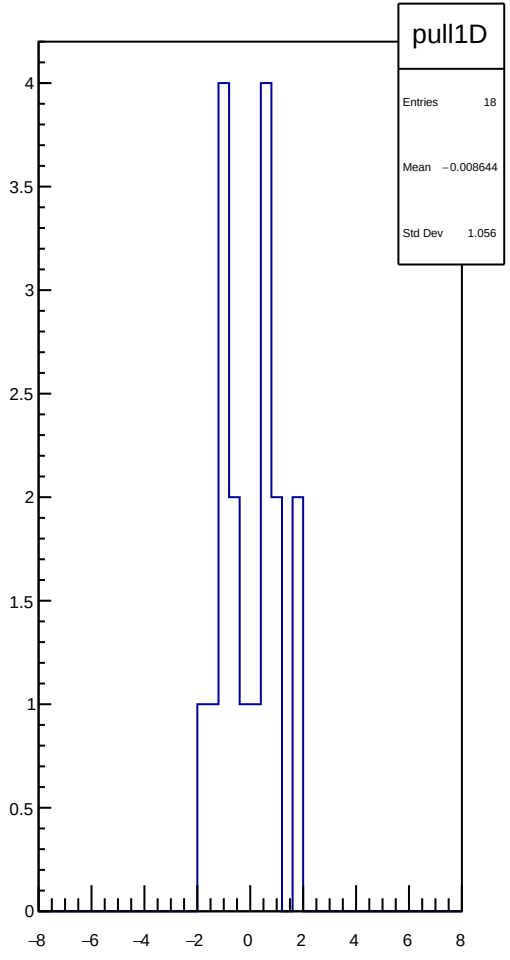

asym_atl_dd_atr_dd_avg_correction_rms vs run
χ² / ndf 270.1 / 17
p0 4625 ± 8.025
4900
4800
4700
4600
4500
4400
4300
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

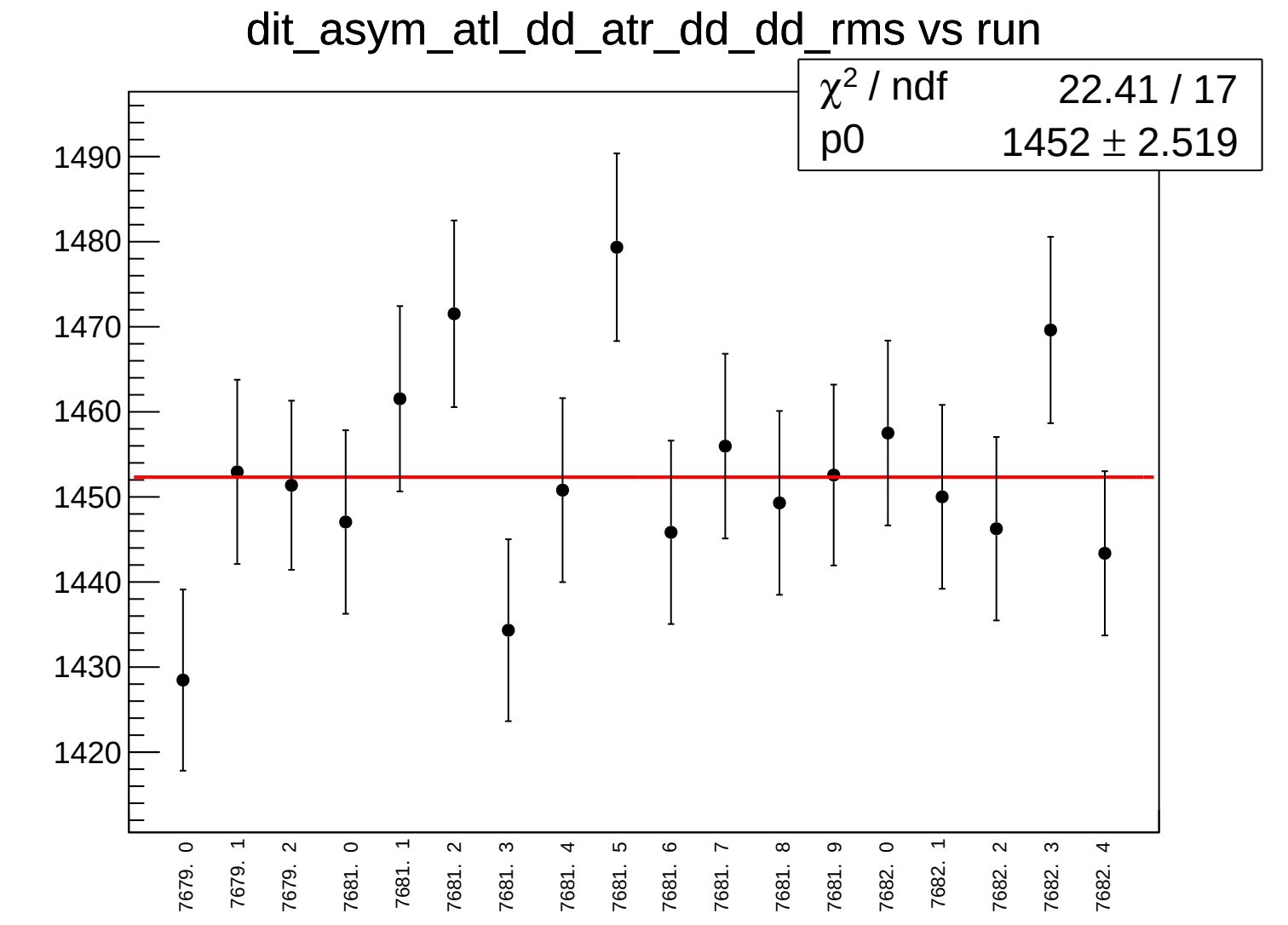

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 17.62 / 17
p0 −14.3 ± 1.182e+04
150
100
50
0
−50
−100
−150
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −408.9
Std Dev 418.4
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 18
Mean −0.006188
Std Dev 0.9895
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

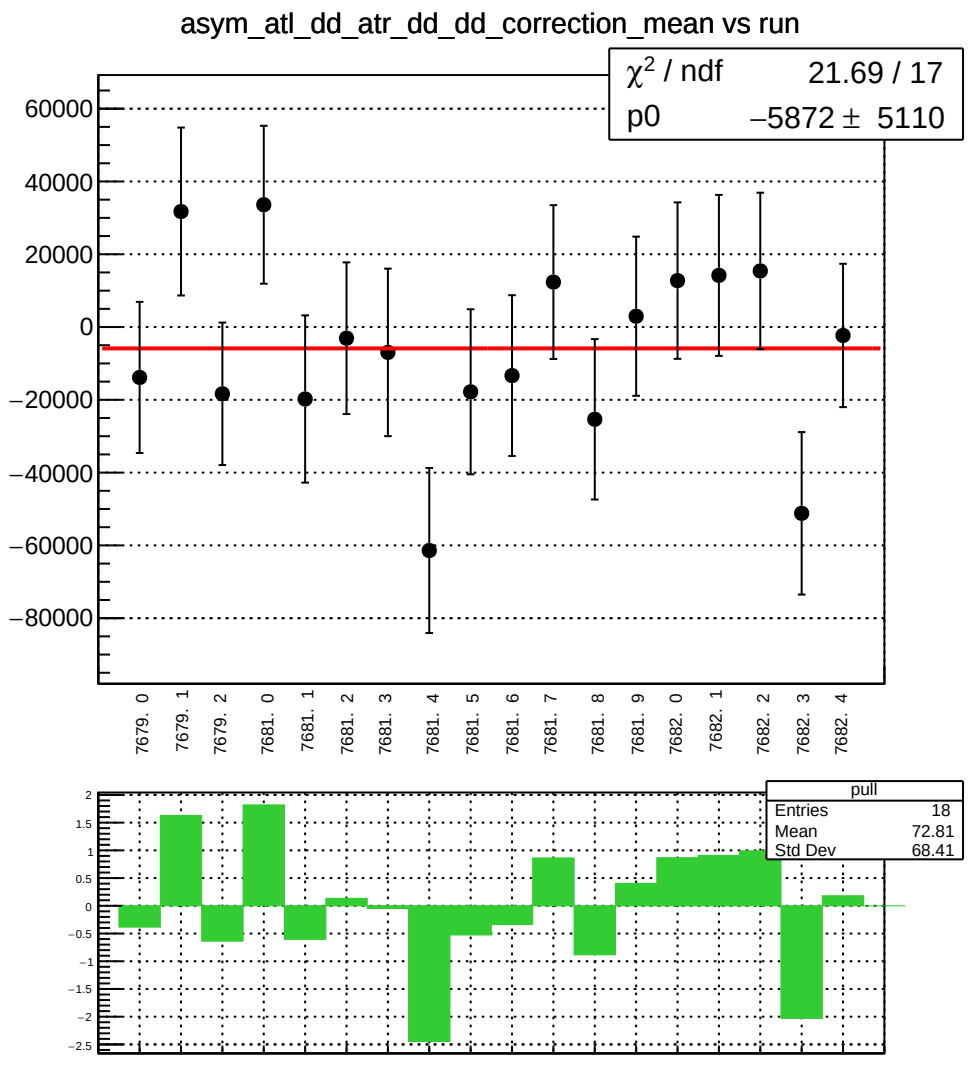

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 244.1 / 17
p0 4817 ± 8.359
5100
5000
4900
4800
4700
4600
4500
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

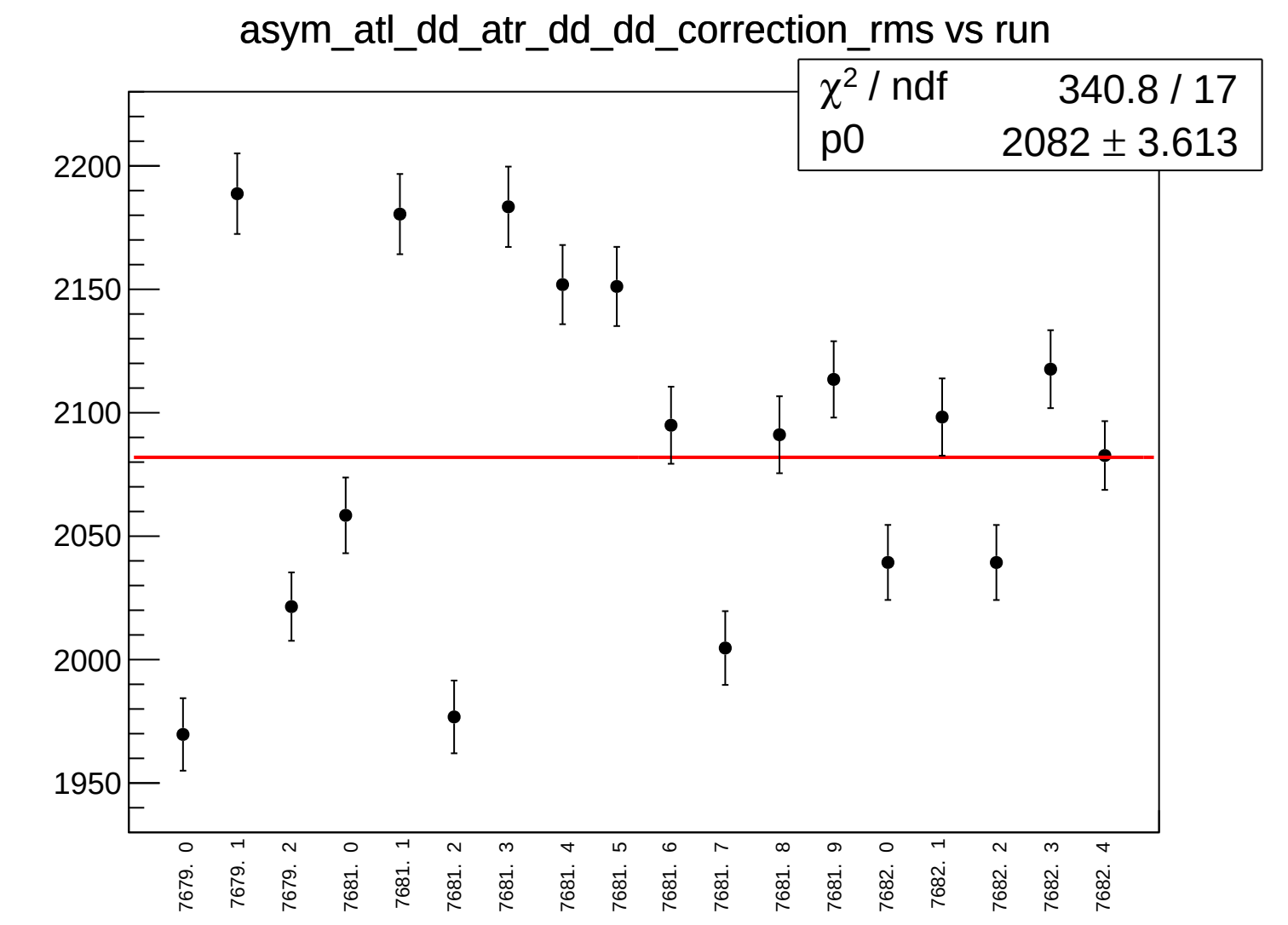

dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 20.08 / 17
p0 333.1 ± 3563
40000
20000
0
−20000
−40000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

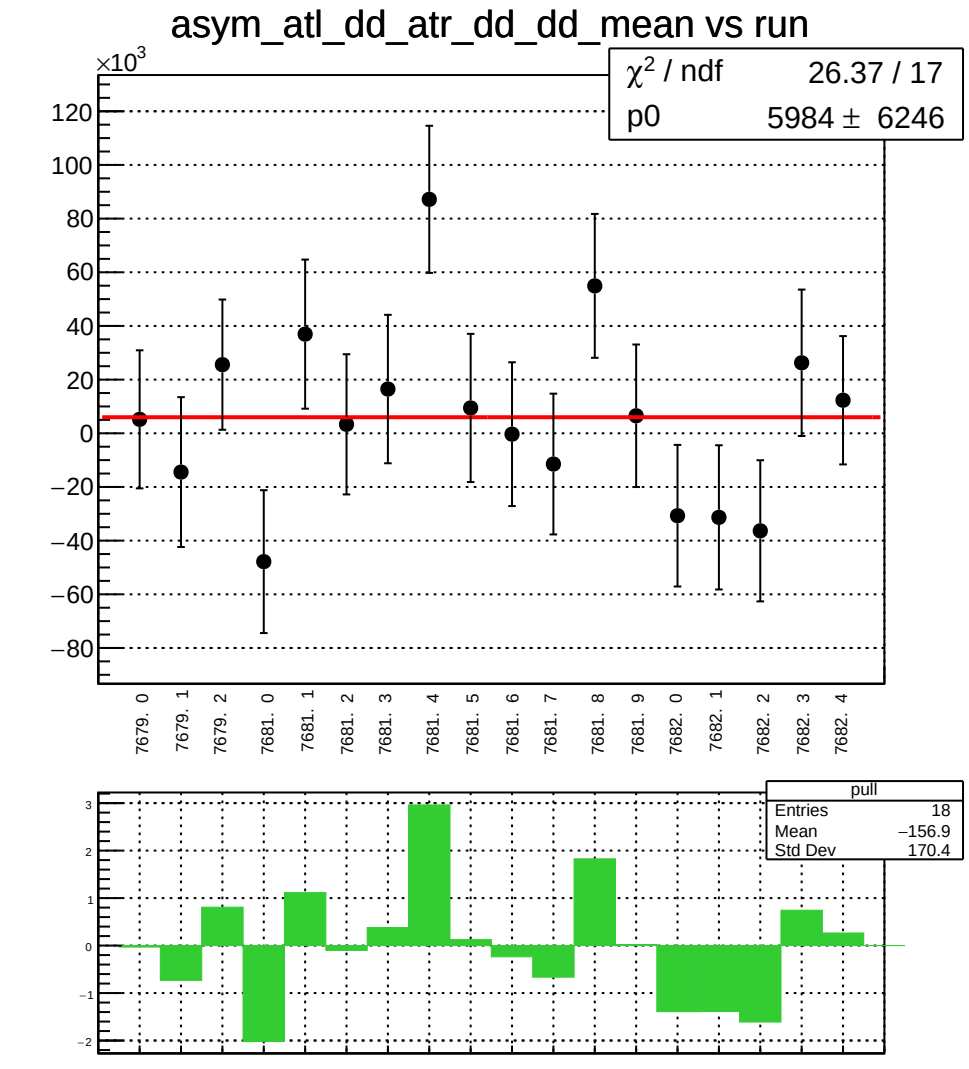

pull
Entries 18
Mean 203.2
Std Dev 192.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

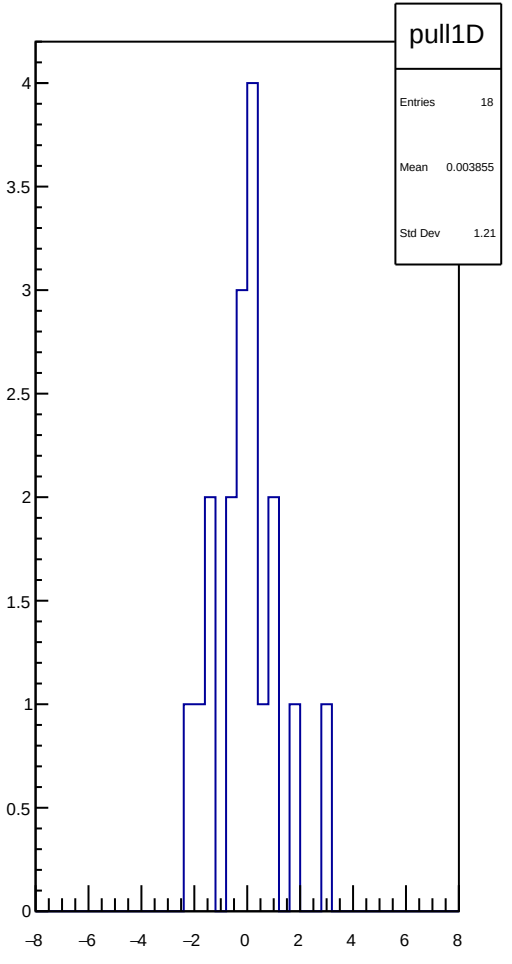

pull1D
Entries 18
Mean −0.008644
Std Dev 1.056
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

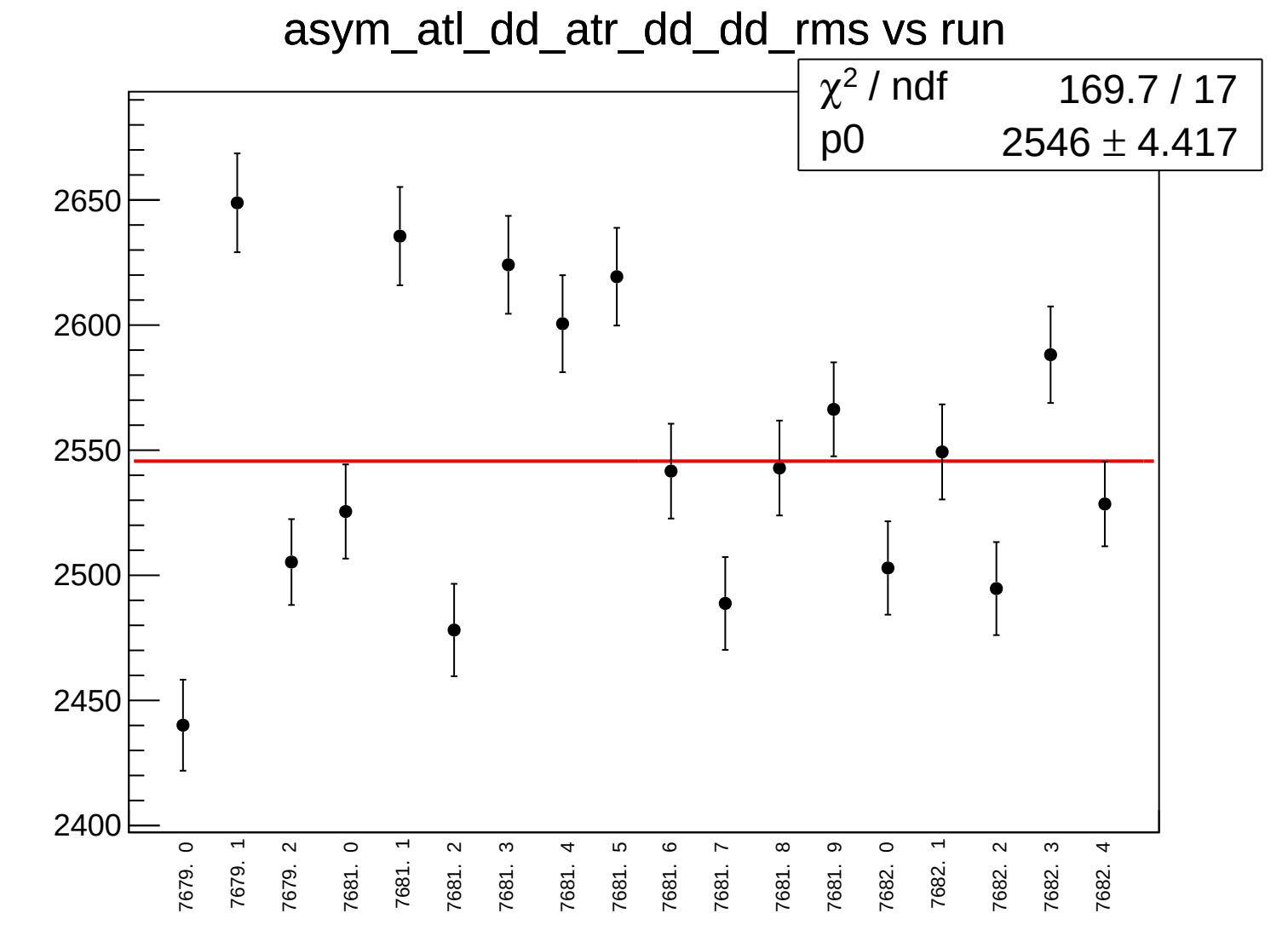

dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 22.41 / 17
p0 1452 ± 2.519
1490
1480
1470
1460
1450
1440
1430
1420
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

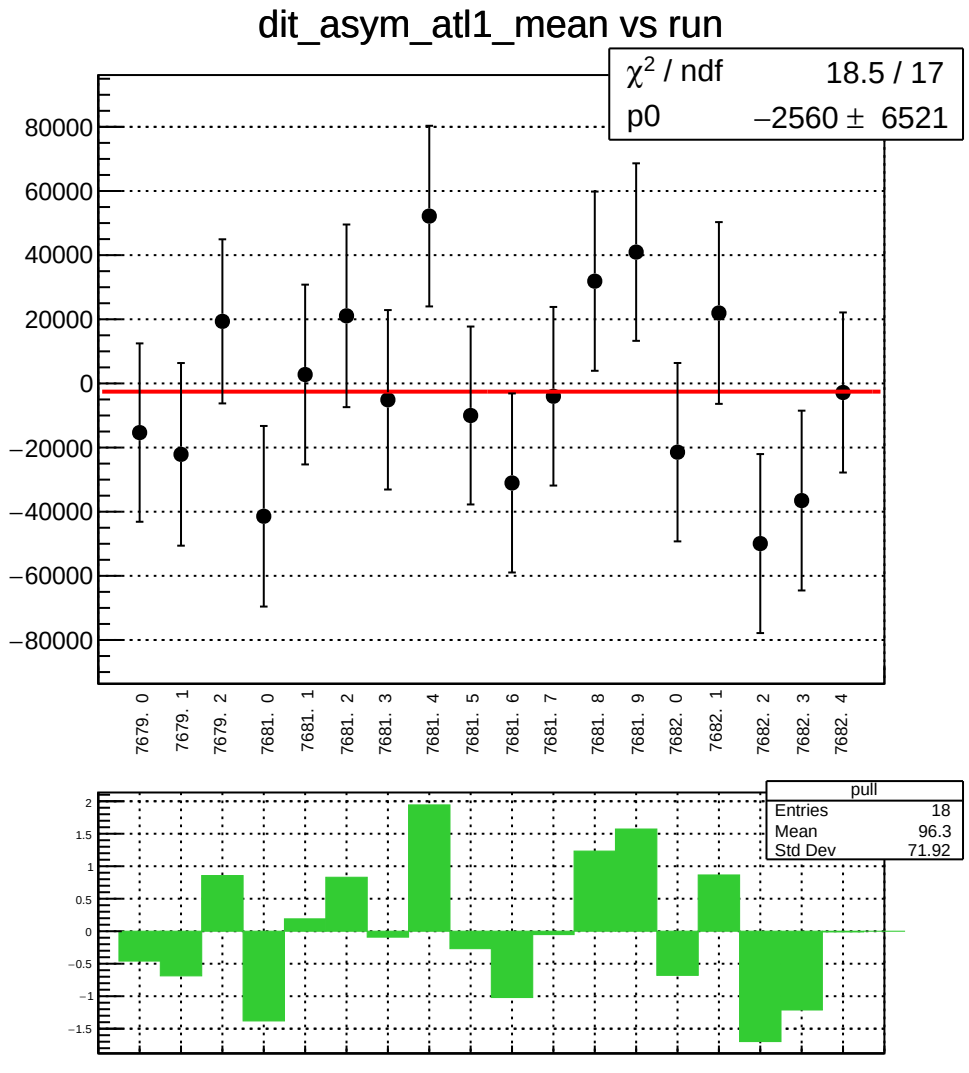

asym_atl_dd_atr_dd_dd_correction_mean vs run
χ² / ndf 21.69 / 17
p0 −5872 ± 5110
60000
40000
20000
0
−20000
−40000
−60000
−80000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 72.81
Std Dev 68.41
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 18
Mean −0.005709
Std Dev 1.098
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

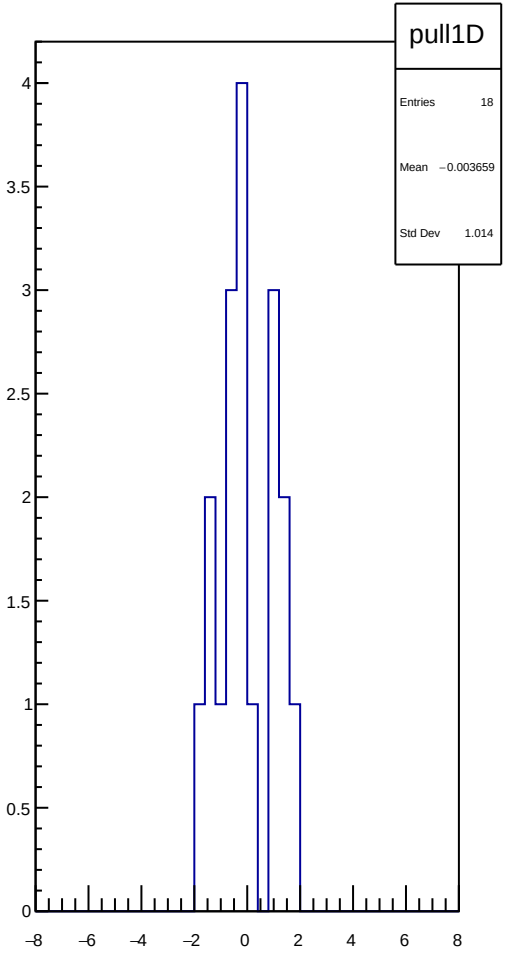

asym_atl_dd_atr_dd_dd_correction_rms vs run
χ² / ndf 340.8 / 17
p0 2082 ± 3.613
2200
2150
2100
2050
2000
1950
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

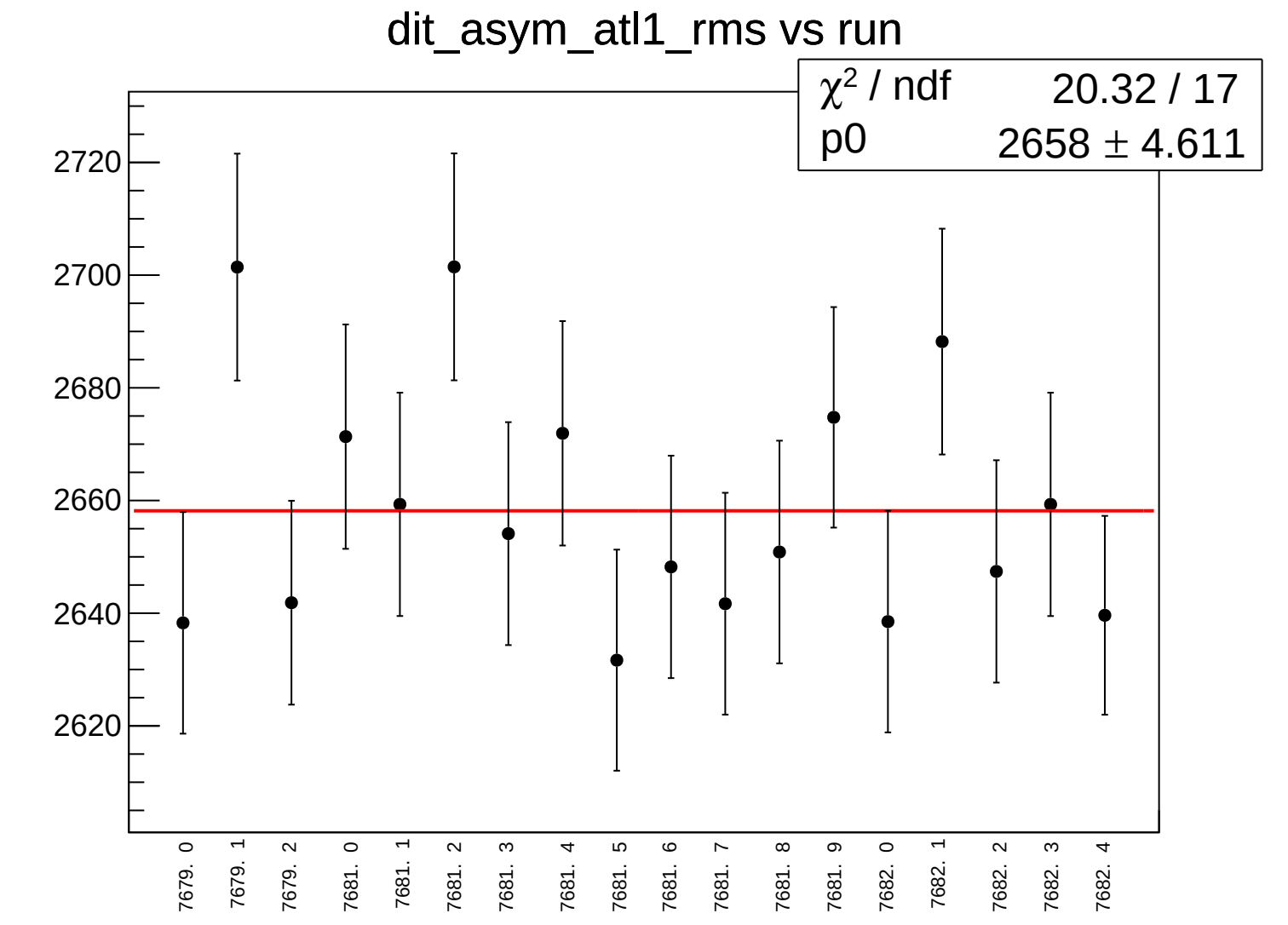

asym_atl_dd_atr_dd_dd_mean vs run
×10^3
χ^2 / ndf 26.37 / 17
p0 5984 ± 6246
120
100
80
60
40
20
0
−20
−40
−60
−80
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −156.9
Std Dev 170.4
3
2
1
0
−1
−2

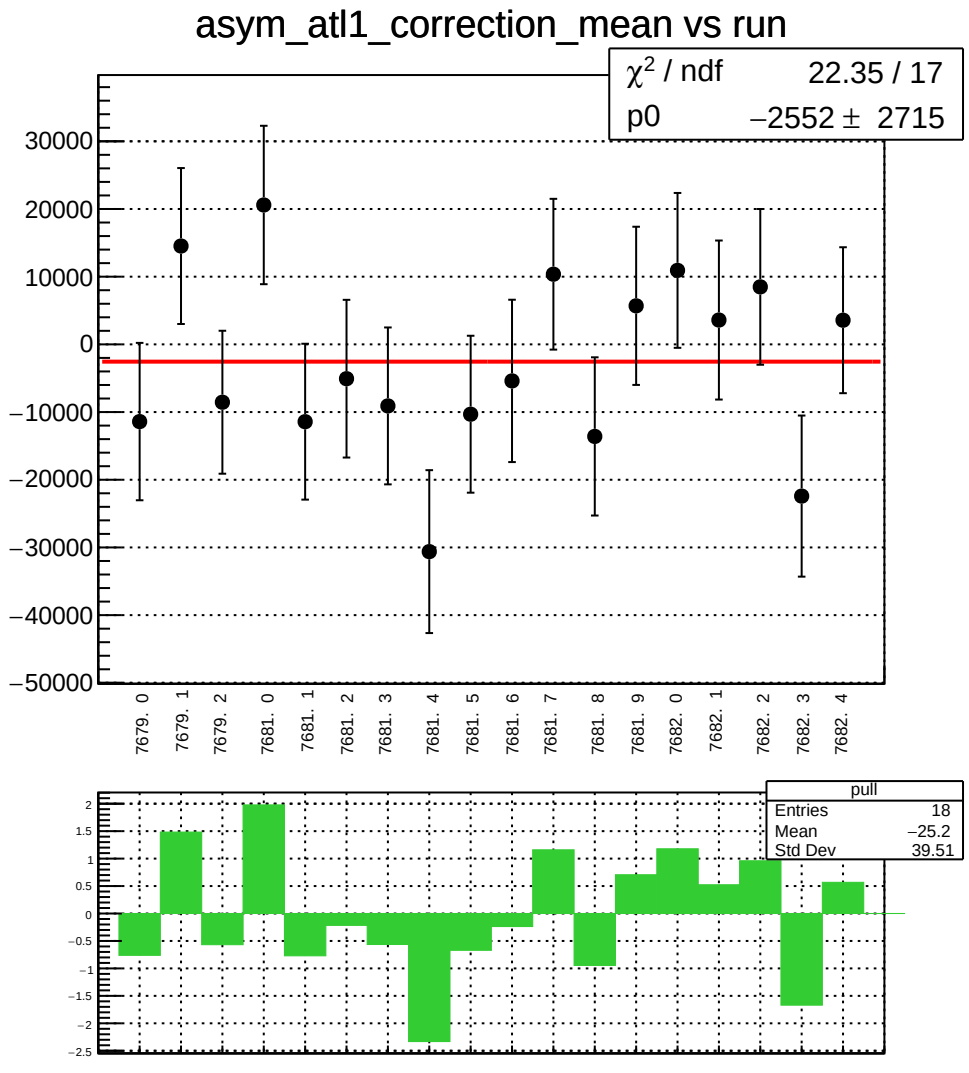

pull1D
Entries 18
Mean 0.003855
Std Dev 1.21
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

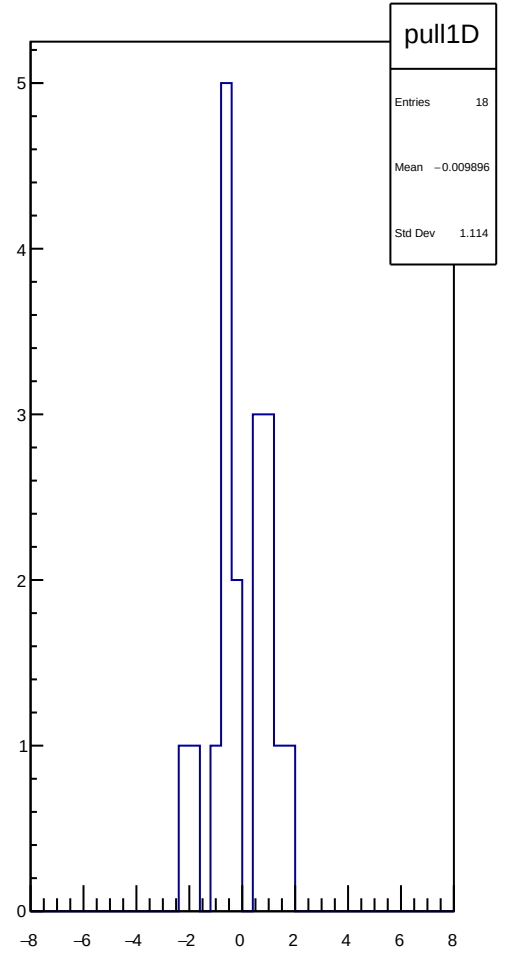

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 169.7 / 17
p0 2546 ± 4.417
2650
2600
2550
2500
2450
2400
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

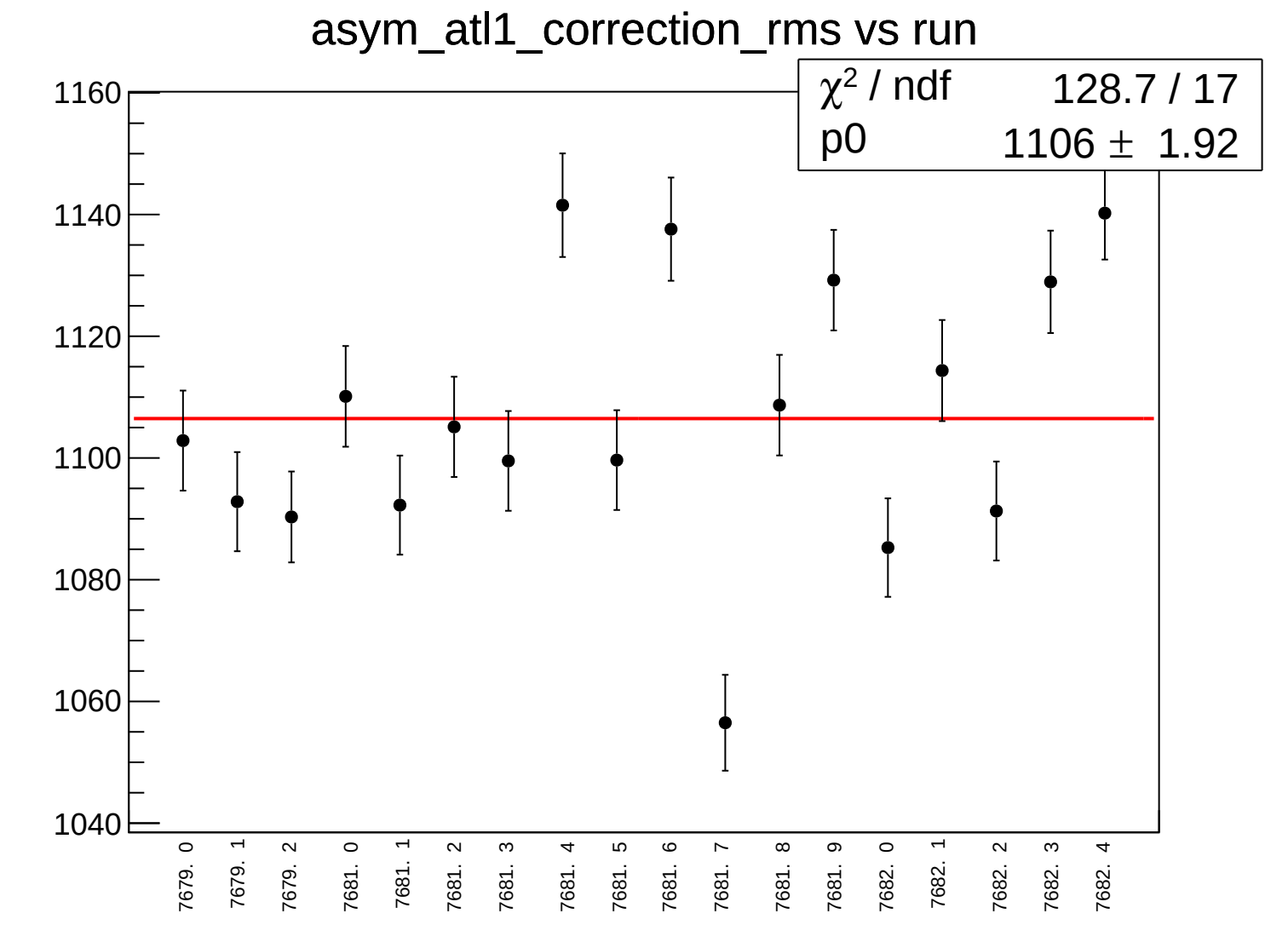

dit_asym_atl1_mean vs run
χ² / ndf 18.5 / 17
p0 −2560 ± 6521
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 96.3
Std Dev 71.92
2
1.5
1
0.5
0
−0.5
−1
−1.5

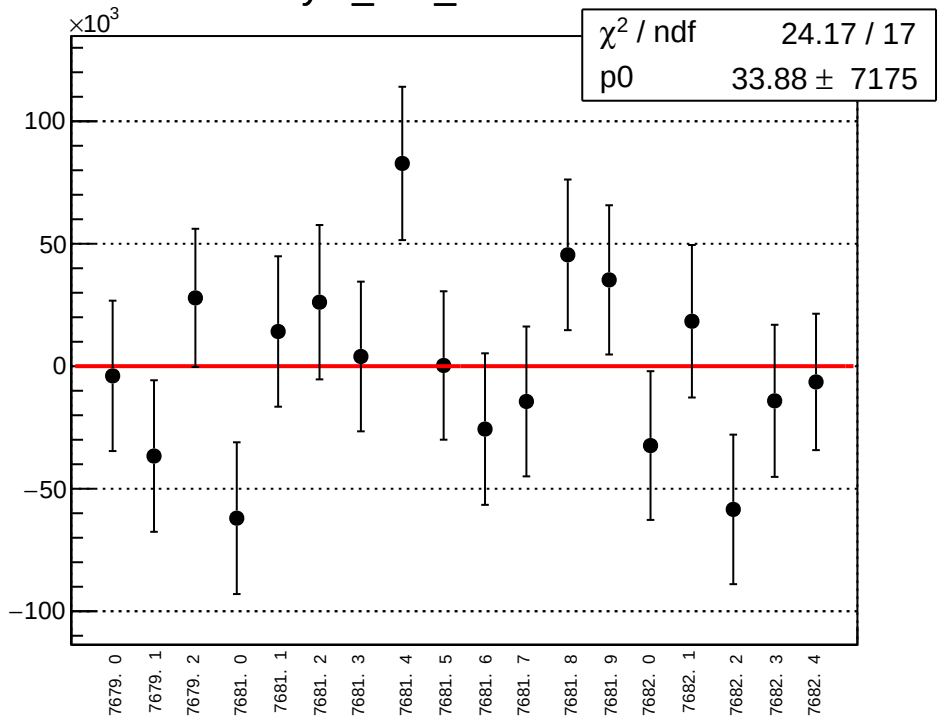

pull1D
Entries 18
Mean −0.003659
Std Dev 1.014
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

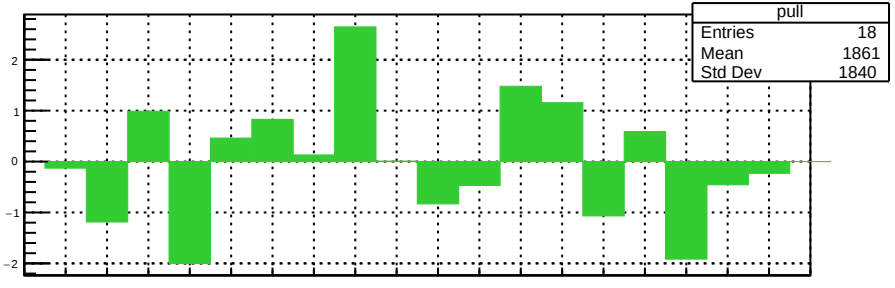

dit_asym_atl1_rms vs run
χ² / ndf 20.32 / 17
p0 2658 ± 4.611
2720
2700
2680
2660
2640
2620
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

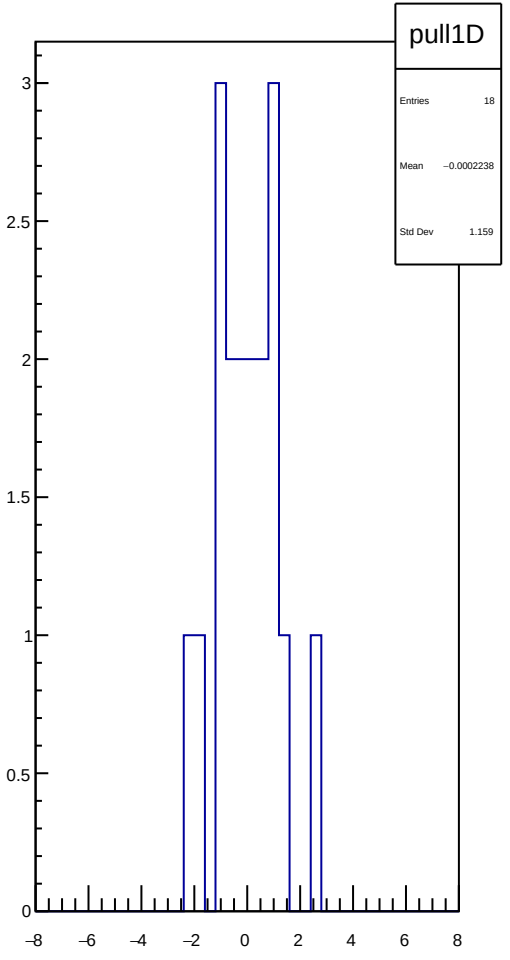

asym_atl1_correction_mean vs run
χ² / ndf 22.35 / 17
p0 −2552 ± 2715
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −25.2
Std Dev 39.51
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

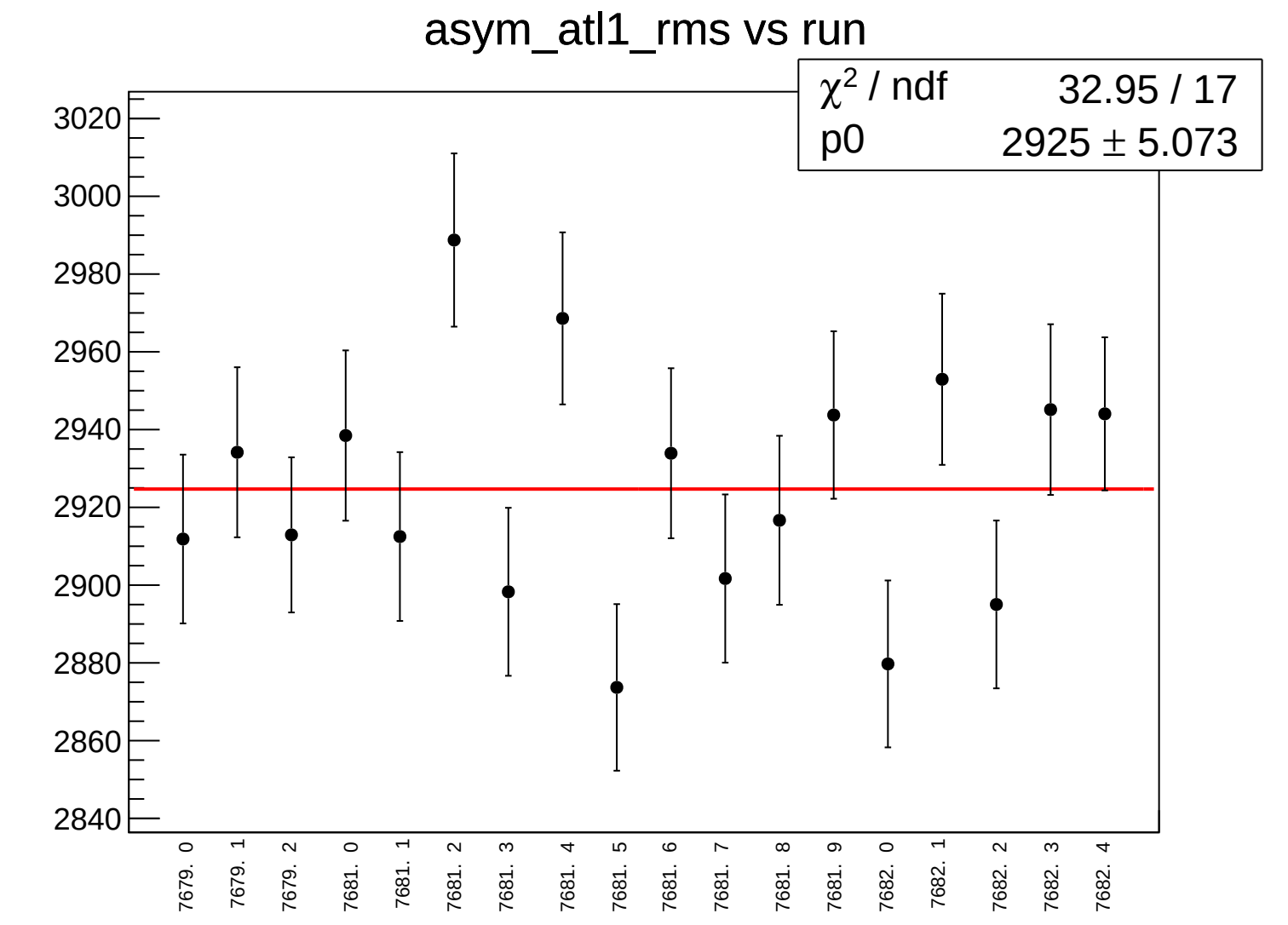

pull1D
Entries 18
Mean −0.009896
Std Dev 1.114
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

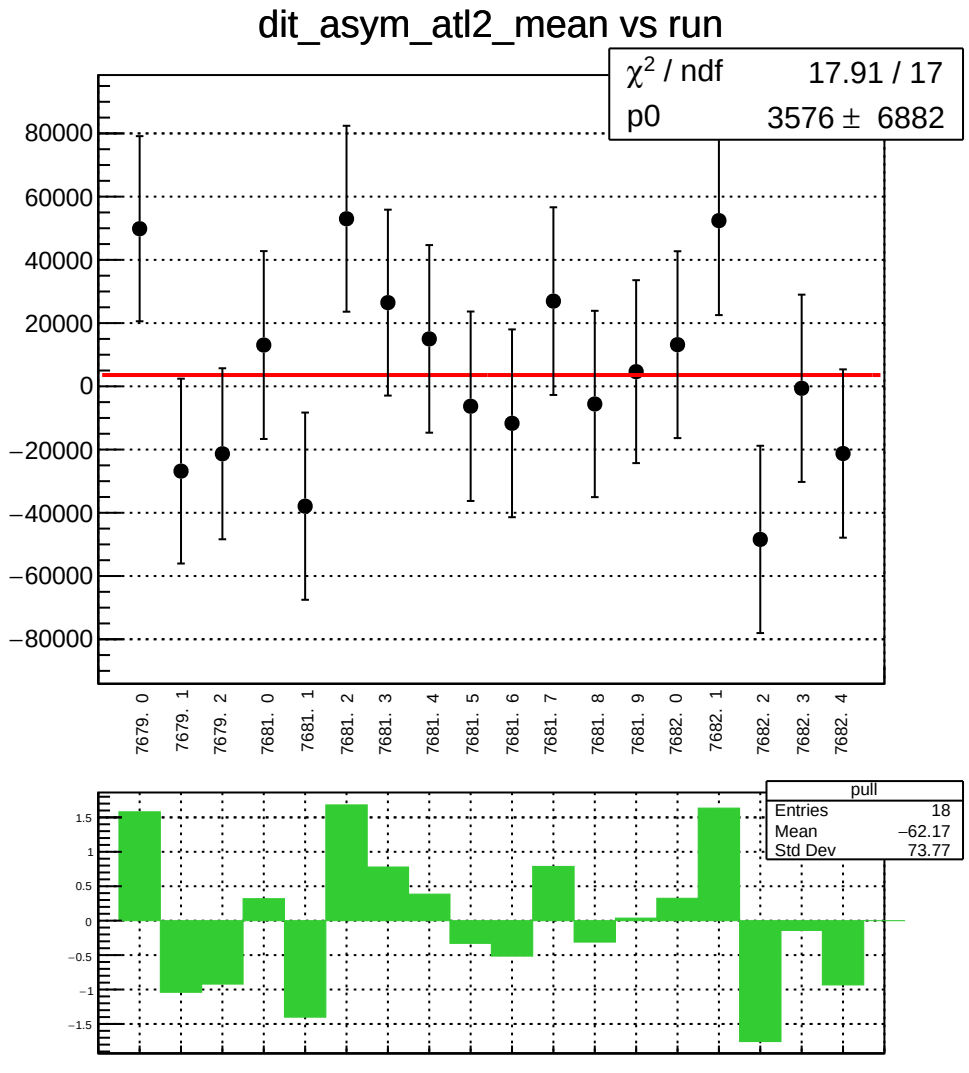

asym_atl1_correction_rms vs run
χ² / ndf 128.7 / 17
p0 1106 ± 1.92
1160
1140
1120
1100
1080
1060
1040
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

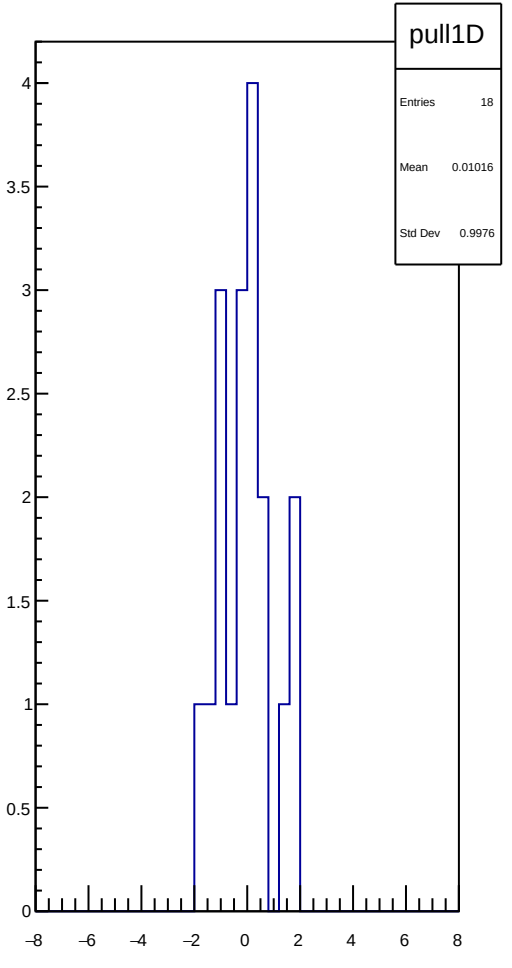

asym_atl1_mean vs run
×10^3
χ^2 / ndf 24.17 / 17
p0 33.88 ± 7175
100
50
0
−50
−100
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

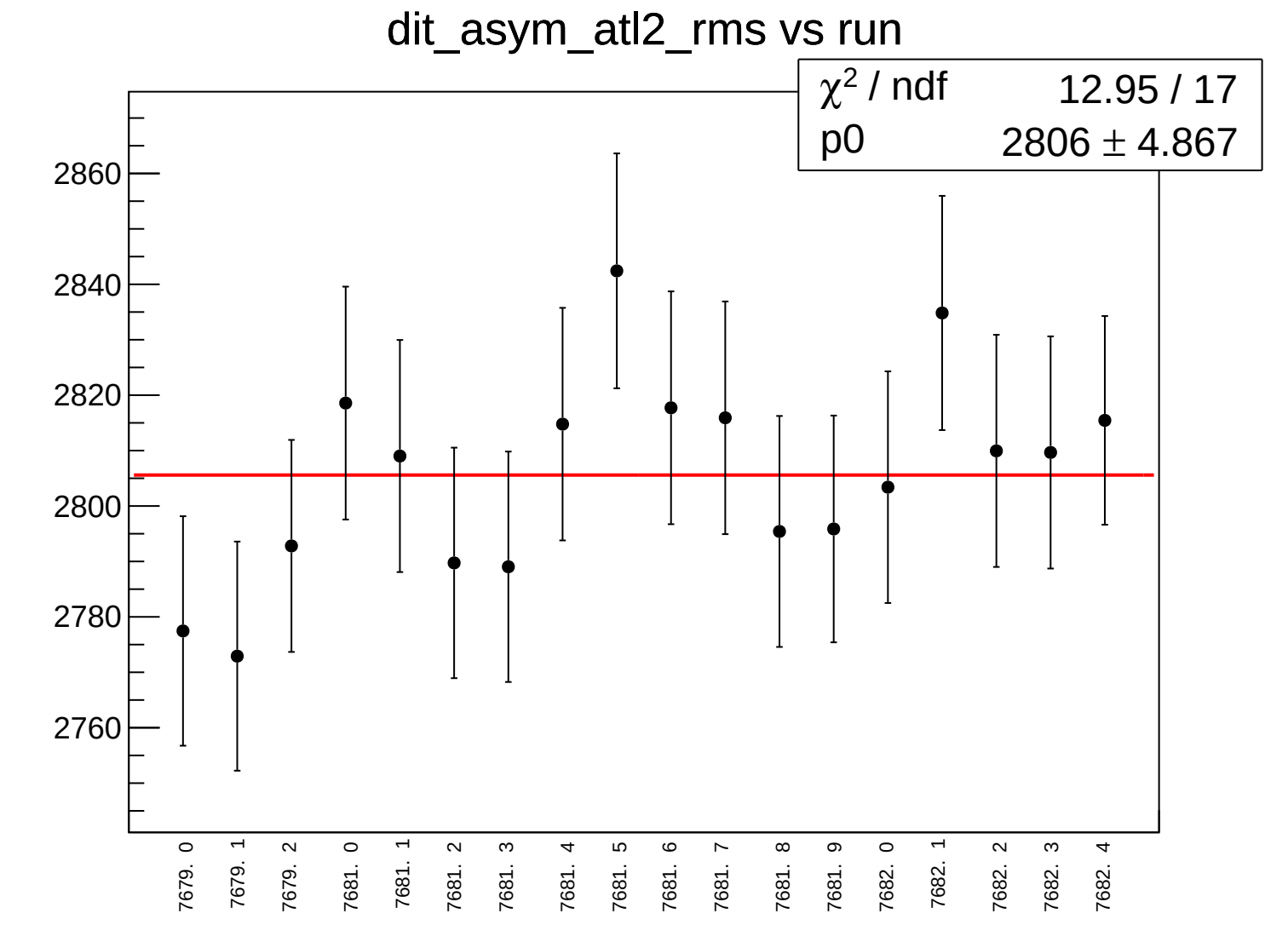

pull
Entries 18
Mean 1861
Std Dev 1840
2
1
0
−1
−2

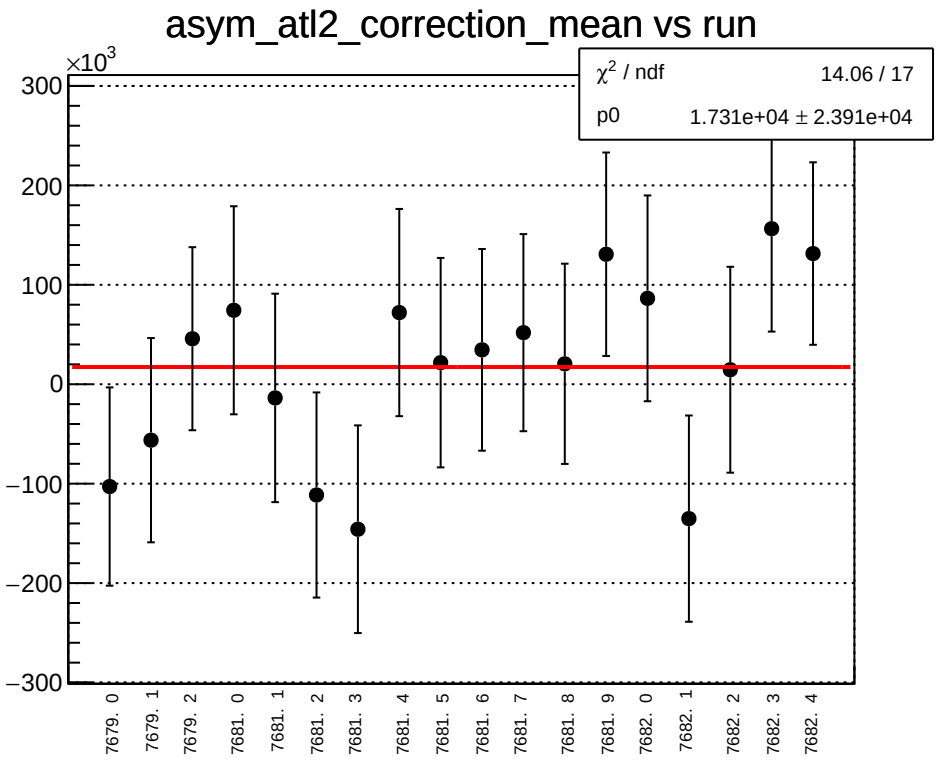

pull1D
Entries 18
Mean −0.0002238
Std Dev 1.159
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

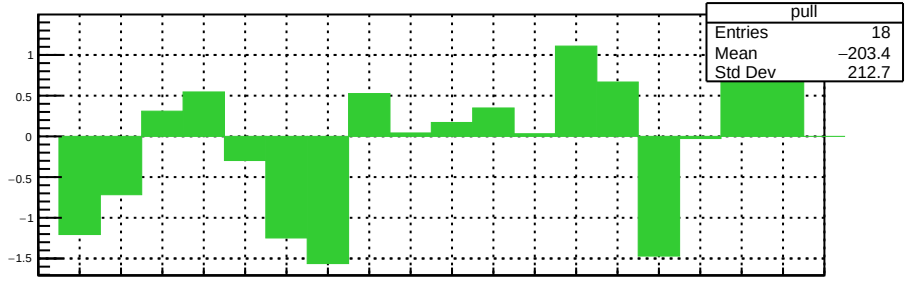

asym_atl1_rms vs run
χ² / ndf 32.95 / 17
p0 2925 ± 5.073
3020
3000
2980
2960
2940
2920
2900
2880
2860
2840
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

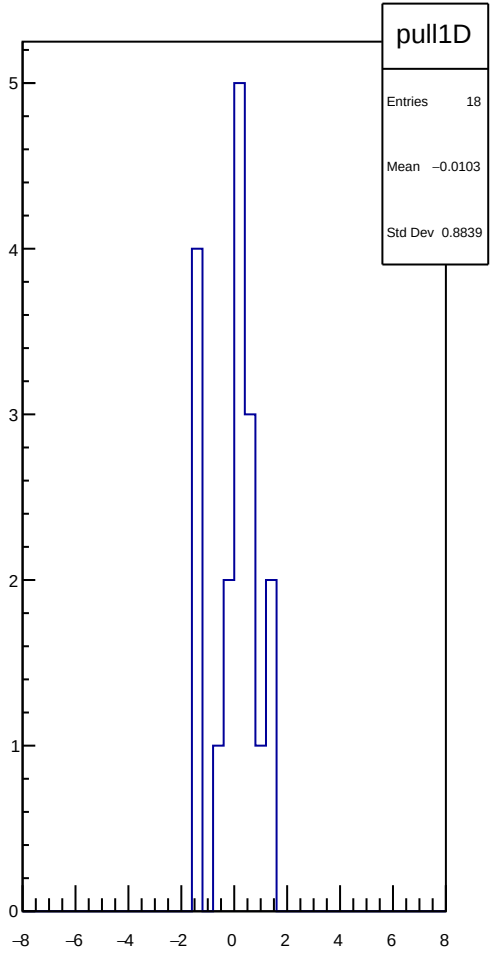

dit_asym_atl2_mean vs run
χ² / ndf 17.91 / 17
p0 3576 ± 6882
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −62.17
Std Dev 73.77
1.5
1
0.5
0
−0.5
−1
−1.5

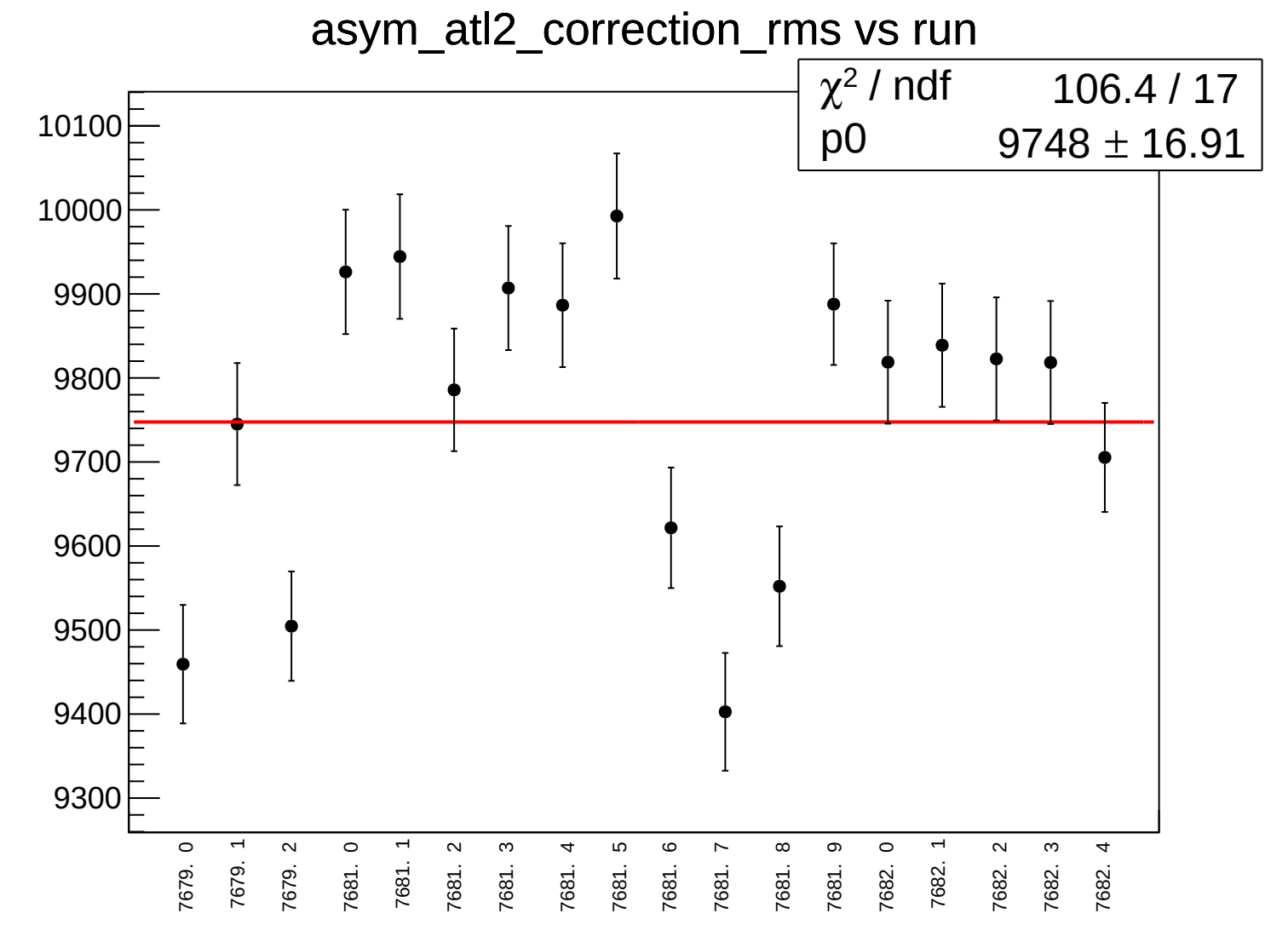

pull1D
Entries 18
Mean 0.01016
Std Dev 0.9976
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

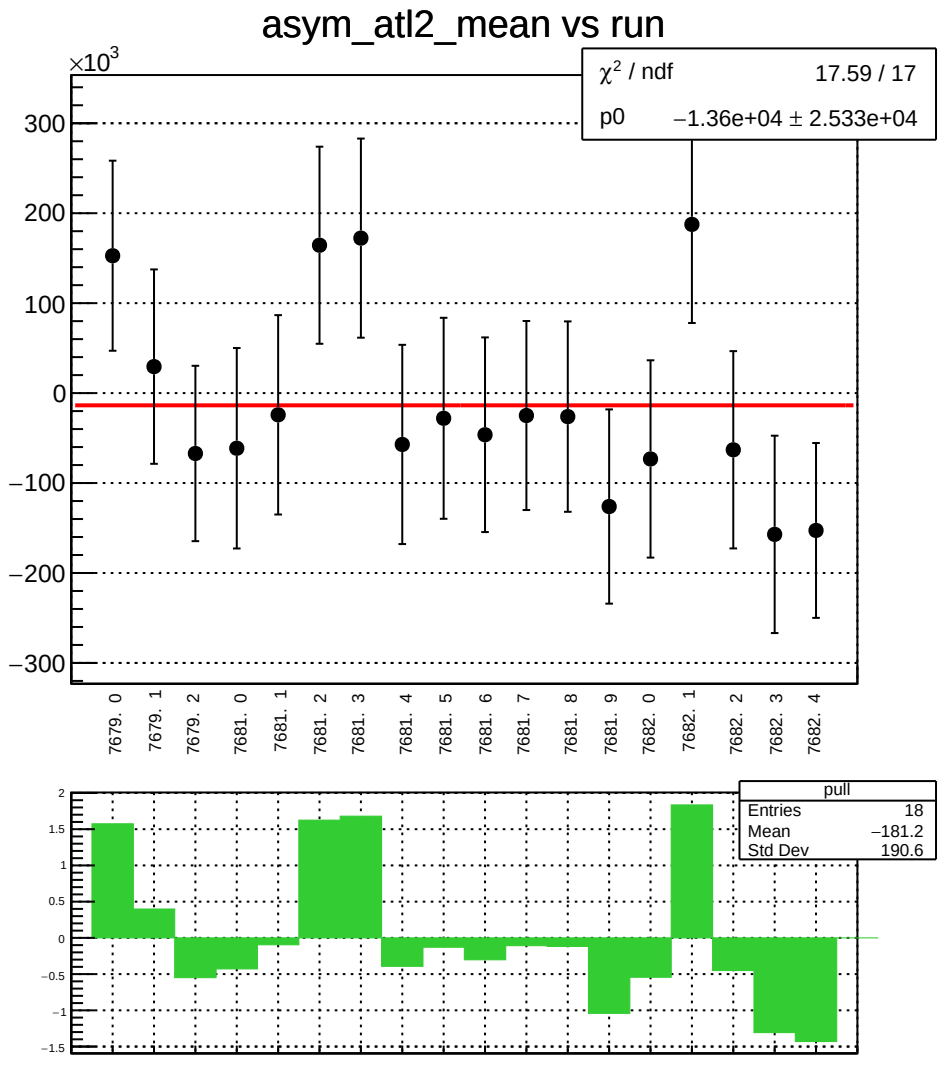

dit_asym_atl2_rms vs run
χ² / ndf 12.95 / 17
p0 2806 ± 4.867
2860
2840
2820
2800
2780
2760
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

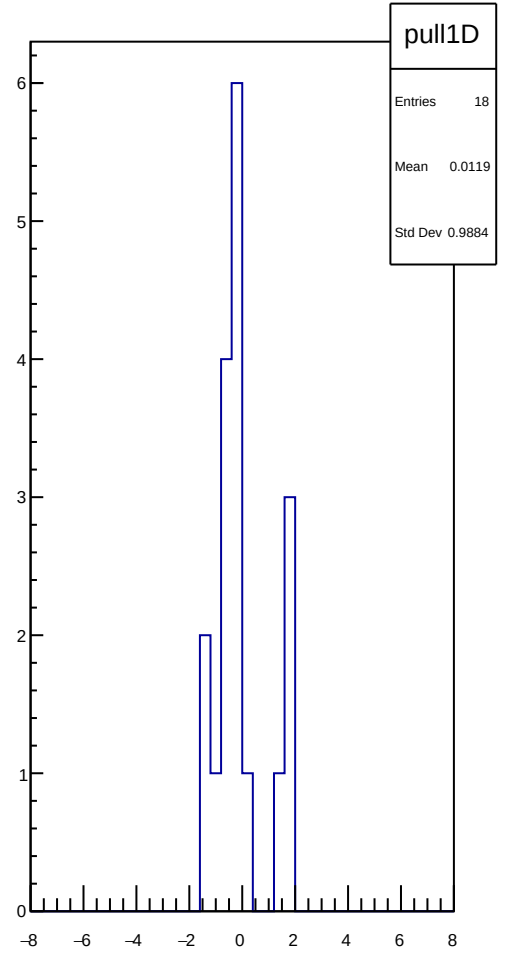

asym_atl2_correction_mean vs run
×10^3
χ² / ndf 14.06 / 17
p0 1.731e+04 ± 2.391e+04
300
200
100
0
−100
−200
−300
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

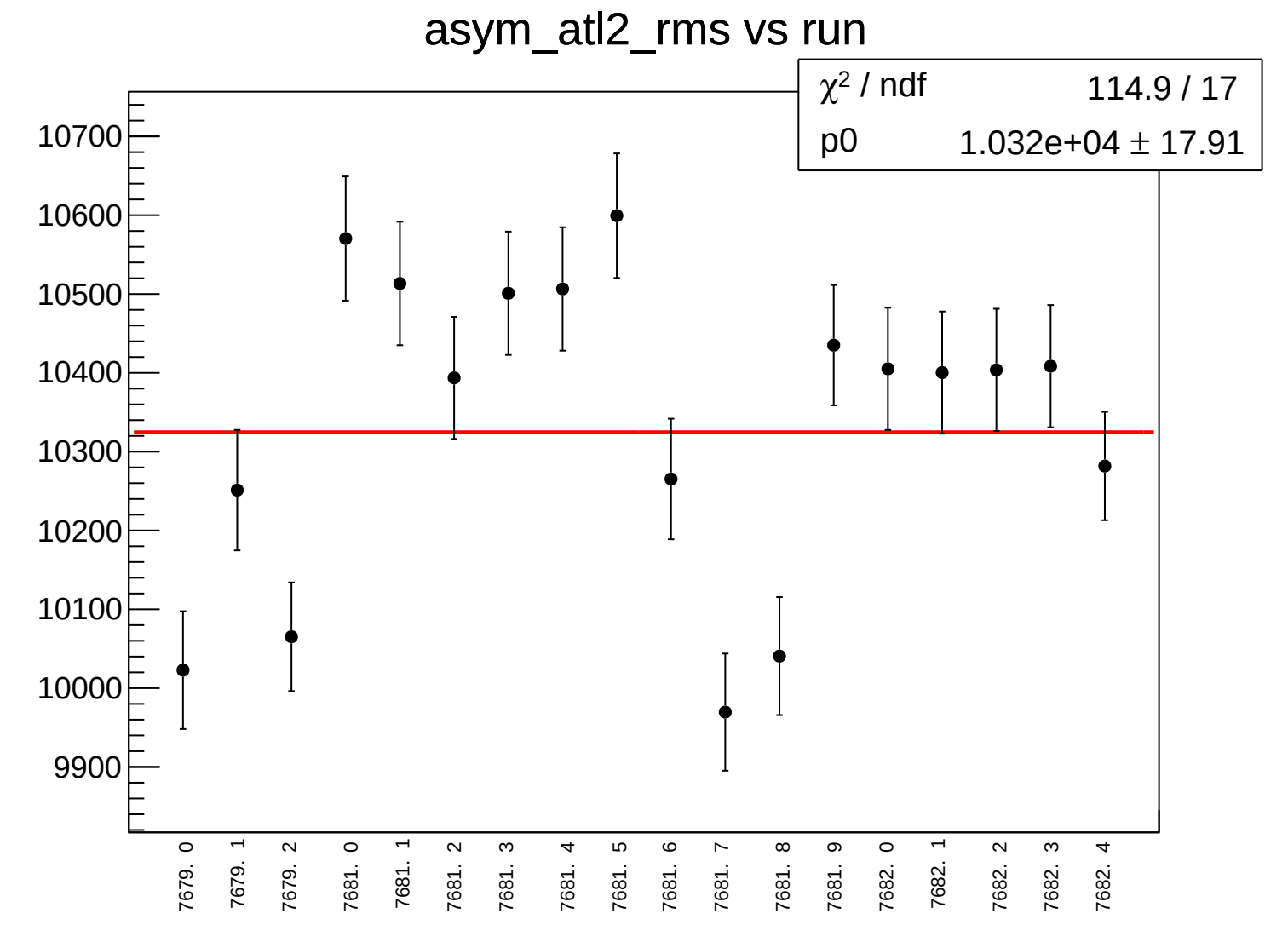

pull
Entries 18
Mean −203.4
Std Dev 212.7
1
0.5
0
−0.5
−1
−1.5

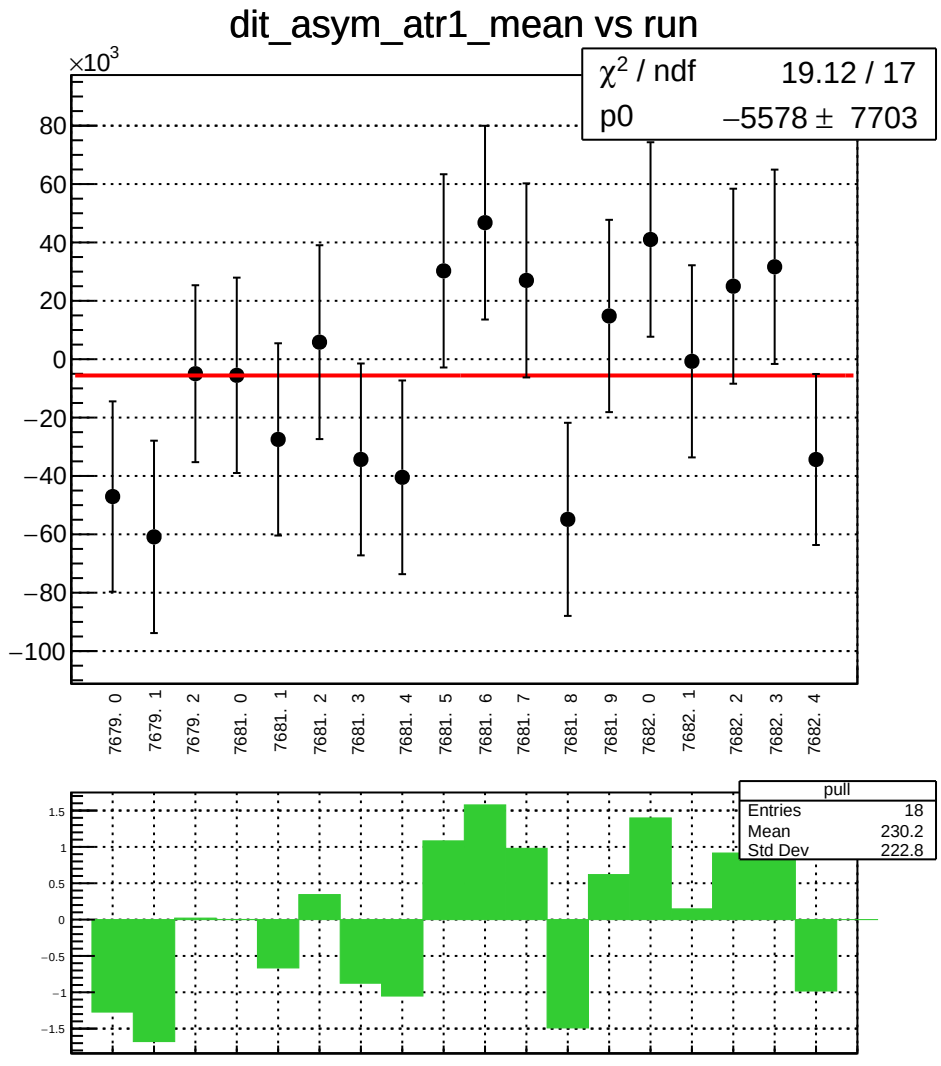

pull1D
Entries 18
Mean −0.0103
Std Dev 0.8839
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

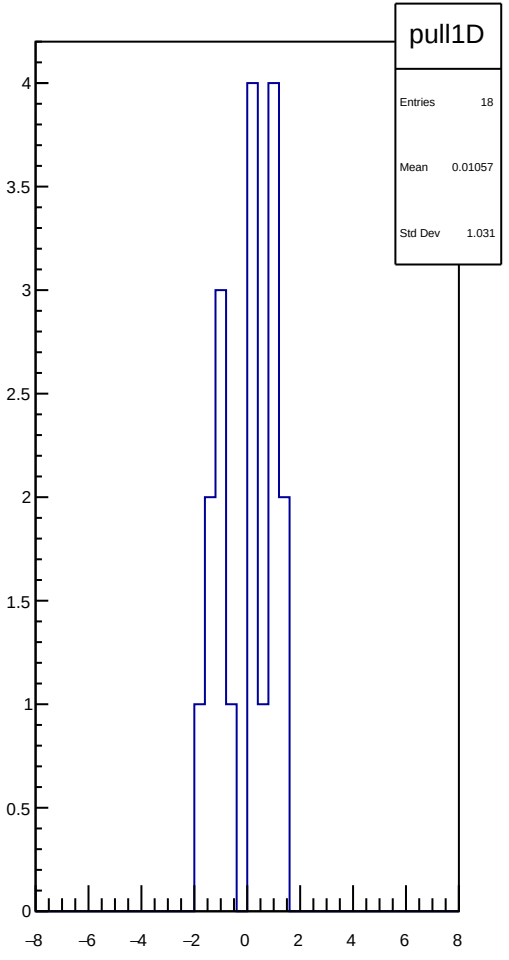

asym_atl2_correction_rms vs run
χ² / ndf 106.4 / 17
p0 9748 ± 16.91
10100
10000
9900
9800
9700
9600
9500
9400
9300
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

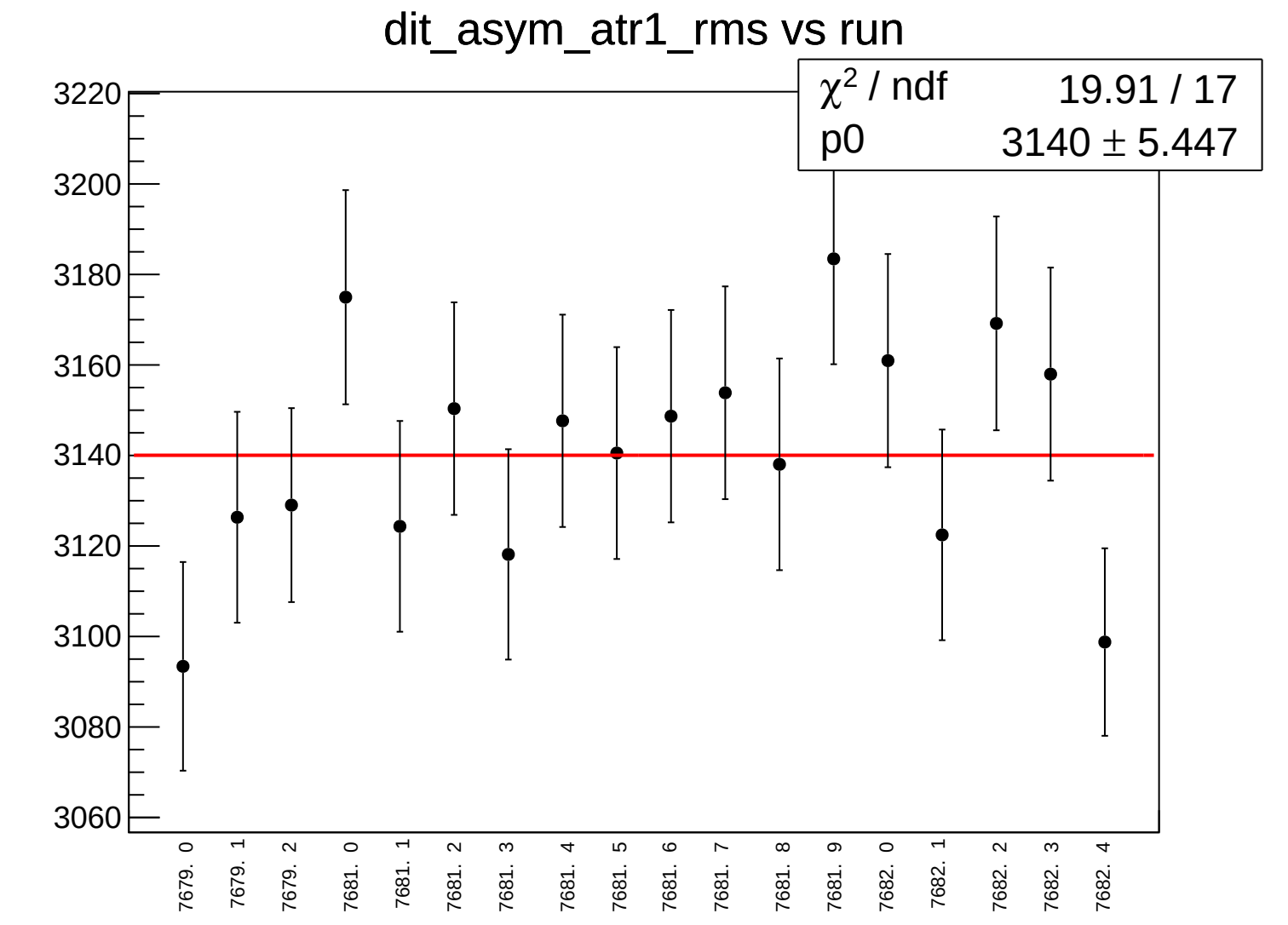

asym_atl2_mean vs run
×10^3
χ² / ndf 17.59 / 17
p0 −1.36e+04 ± 2.533e+04
300
200
100
0
−100
−200
−300
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −181.2
Std Dev 190.6
2
1.5
1
0.5
0
−0.5
−1
−1.5

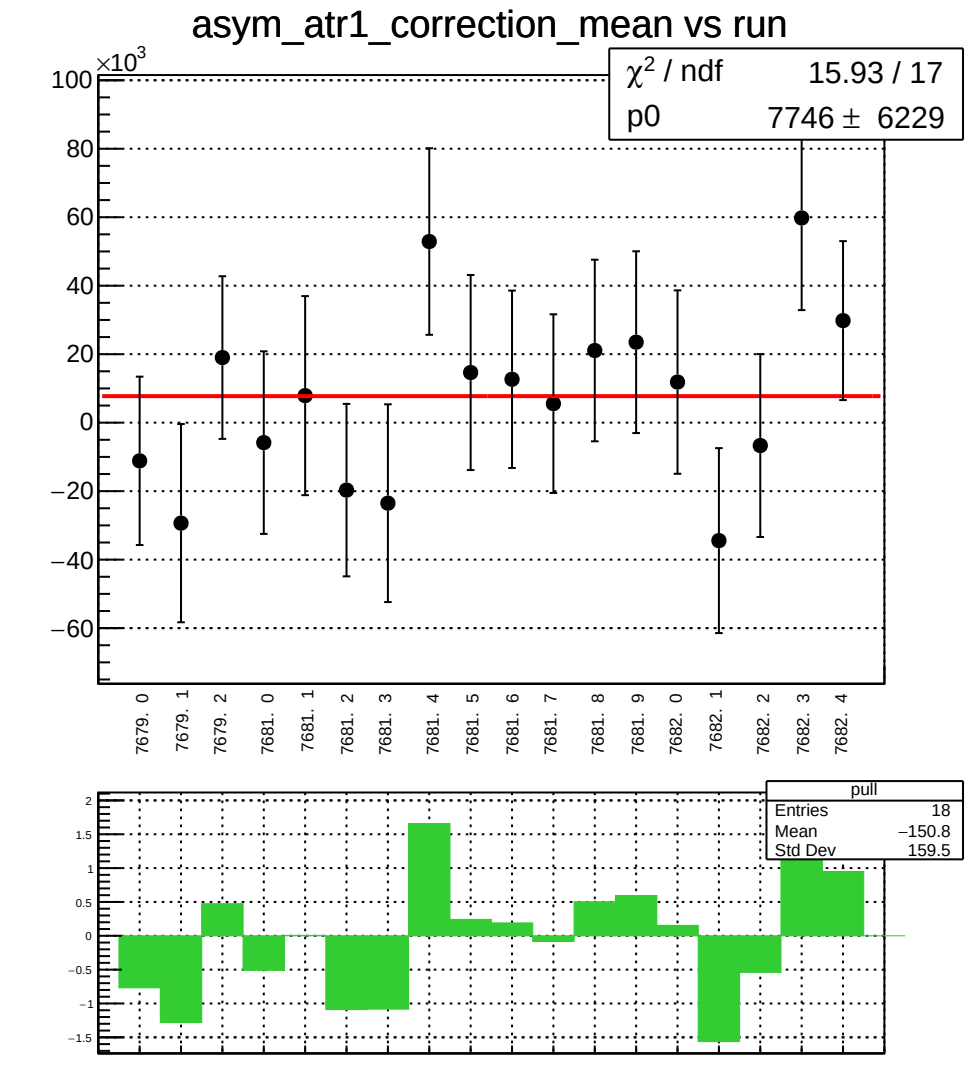

pull1D
Entries 18
Mean 0.0119
Std Dev 0.9884
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

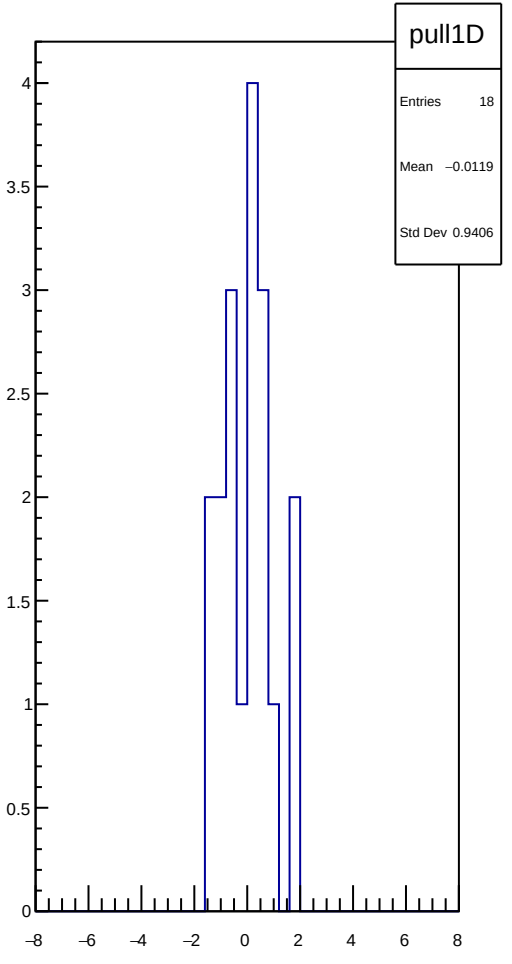

asym_atl2_rms vs run
χ² / ndf 114.9 / 17
p0 1.032e+04 ± 17.91
10700
10600
10500
10400
10300
10200
10100
10000
9900
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

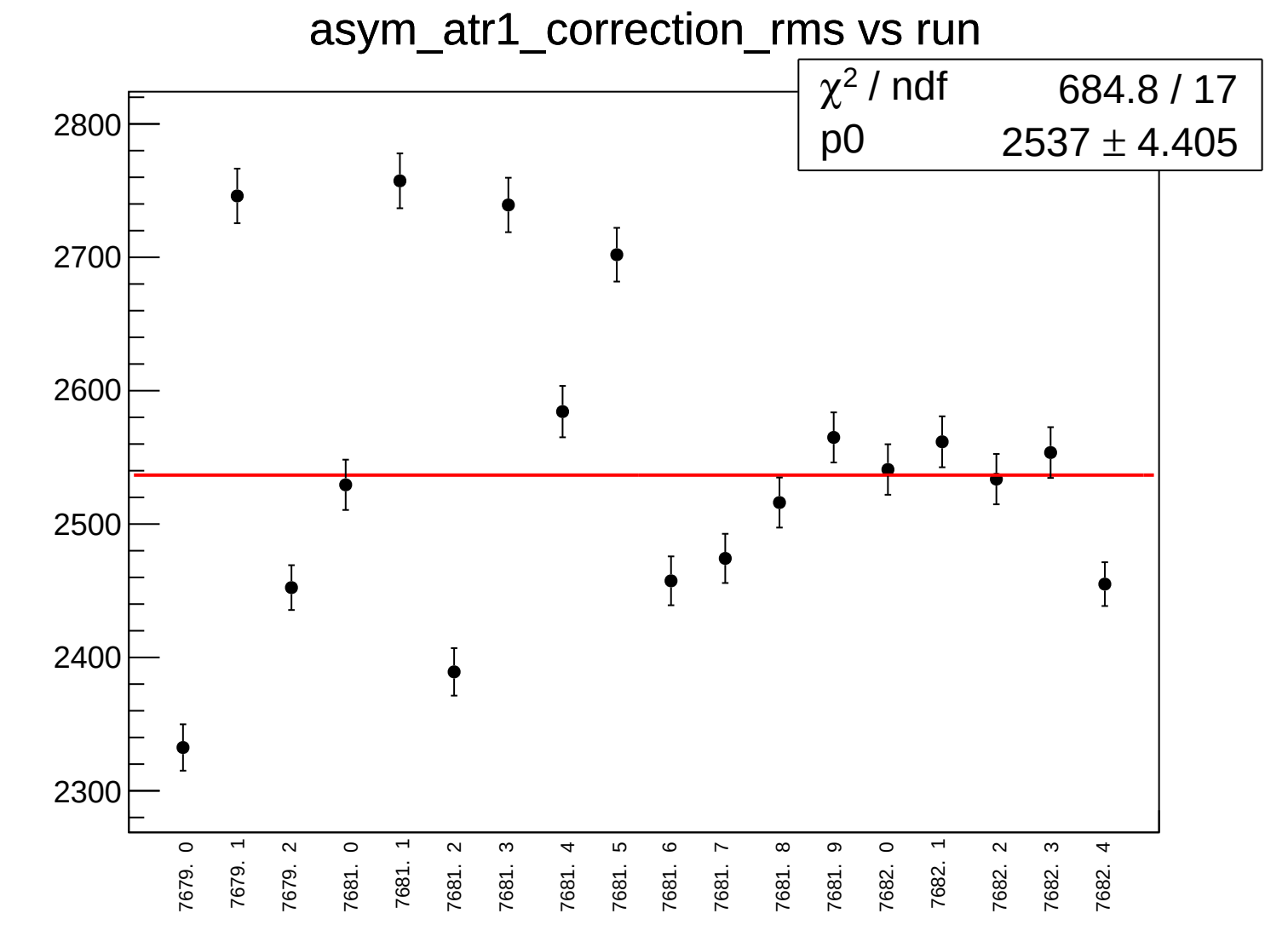

dit_asym_atr1_mean vs run
×10^3
χ^2 / ndf 19.12 / 17
p0 −5578 ± 7703
80
60
40
20
0
−20
−40
−60
−80
−100
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 230.2
Std Dev 222.8
1.5
1
0.5
0
−0.5
−1
−1.5

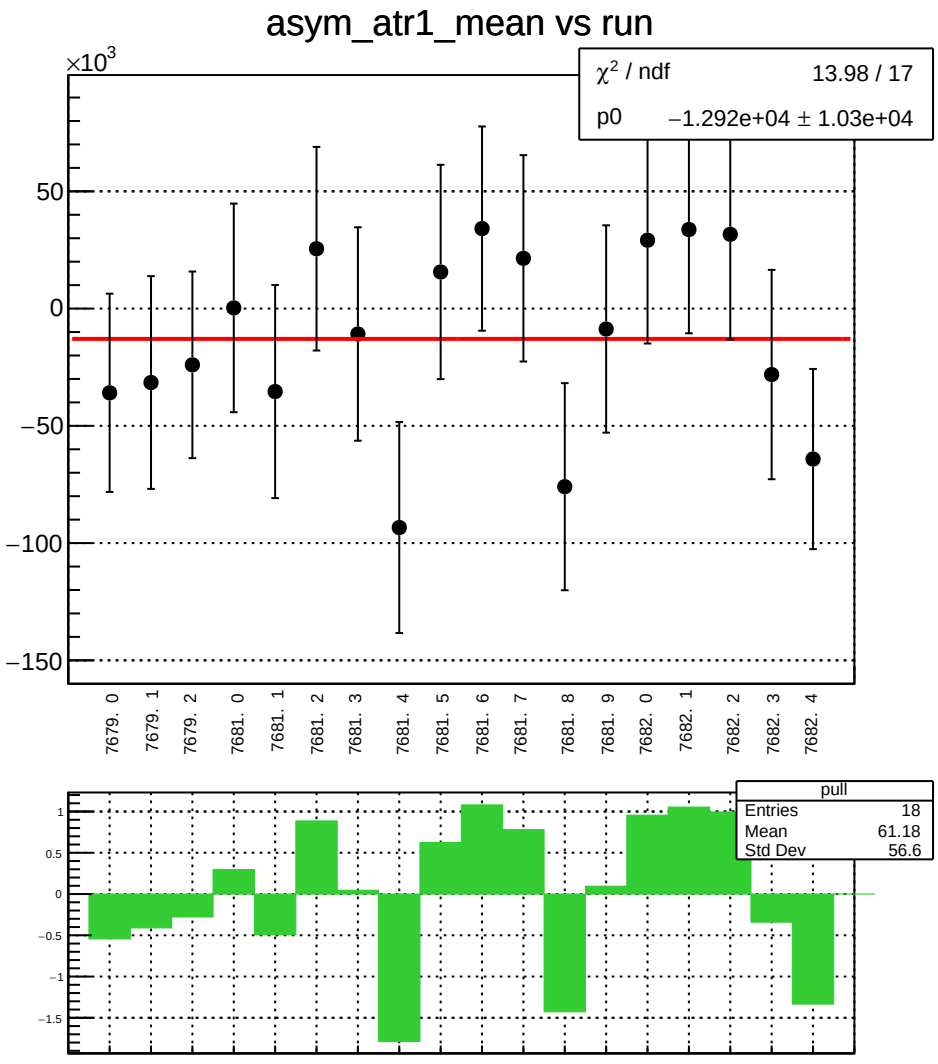

pull1D
Entries 18
Mean 0.01057
Std Dev 1.031
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

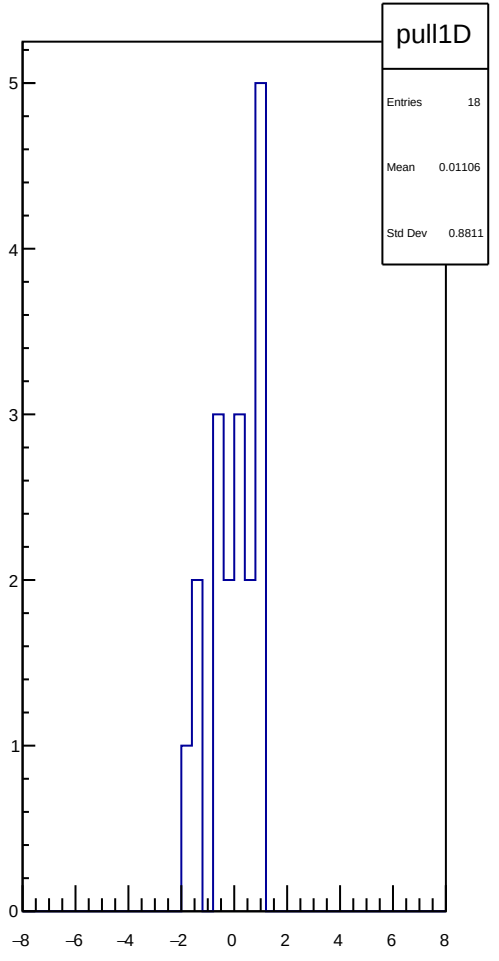

dit_asym_atr1_rms vs run
χ² / ndf 19.91 / 17
p0 3140 ± 5.447
3220
3200
3180
3160
3140
3120
3100
3080
3060
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

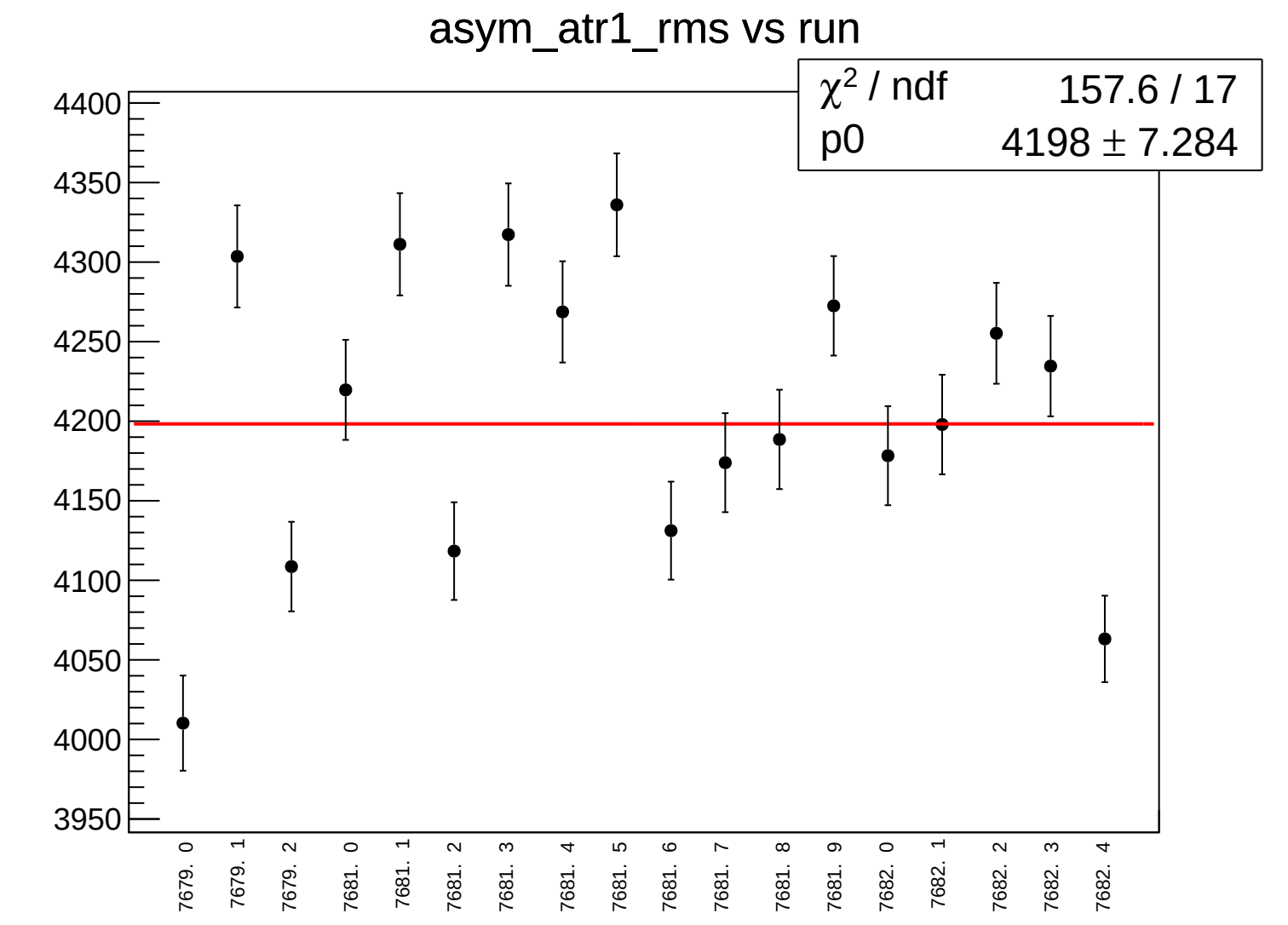

asym_atr1_correction_mean vs run
×10^3
χ² / ndf 15.93 / 17
p0 7746 ± 6229
100
80
60
40
20
0
−20
−40
−60
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −150.8
Std Dev 159.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

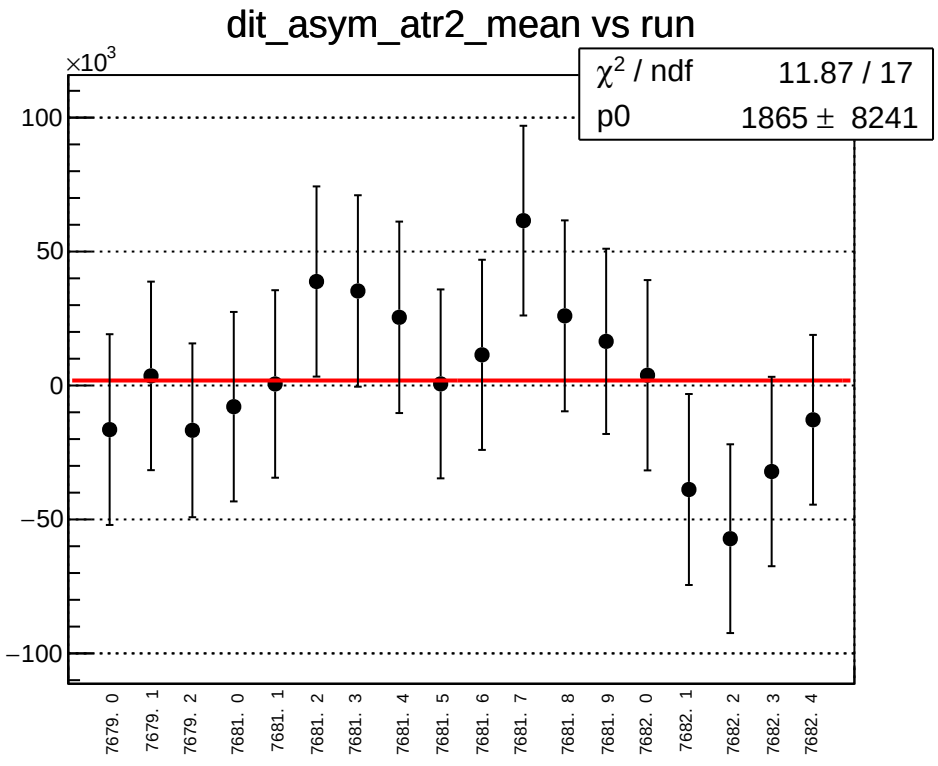

pull1D
Entries 18
Mean −0.0119
Std Dev 0.9406
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

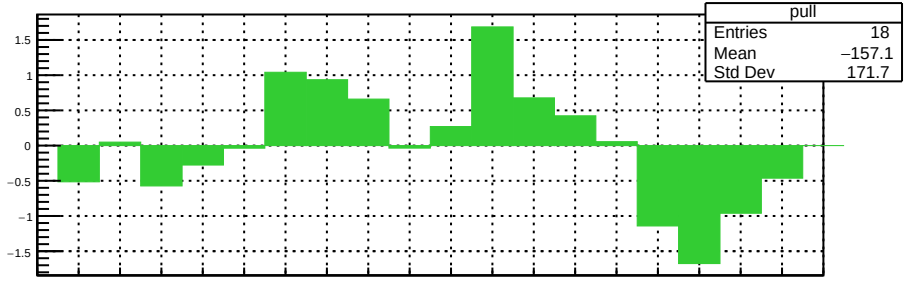

asym_atr1_correction_rms vs run
χ² / ndf 684.8 / 17
p0 2537 ± 4.405
2800
2700
2600
2500
2400
2300
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

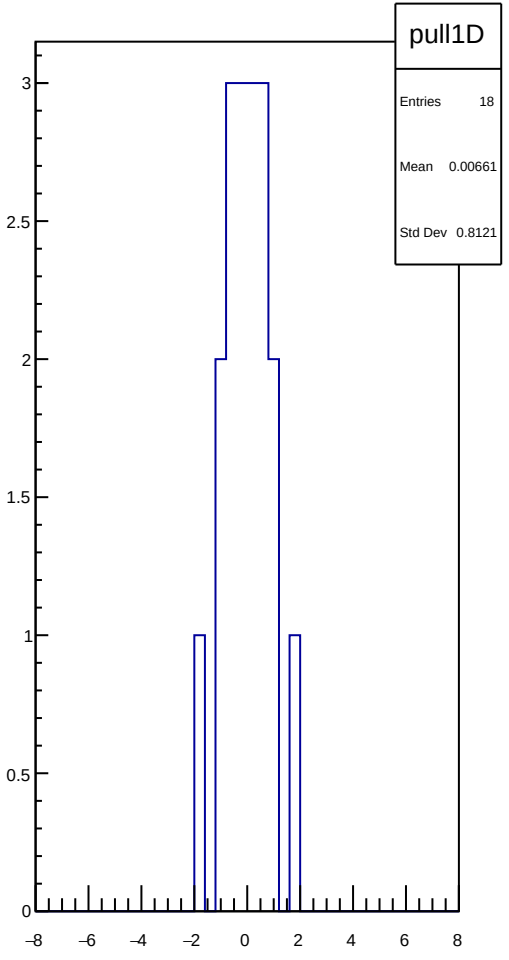

asym_atr1_mean vs run
×10^3
χ² / ndf 13.98 / 17
p0 −1.292e+04 ± 1.03e+04
50
0
−50
−100
−150
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 61.18
Std Dev 56.6
1
0.5
0
−0.5
−1
−1.5

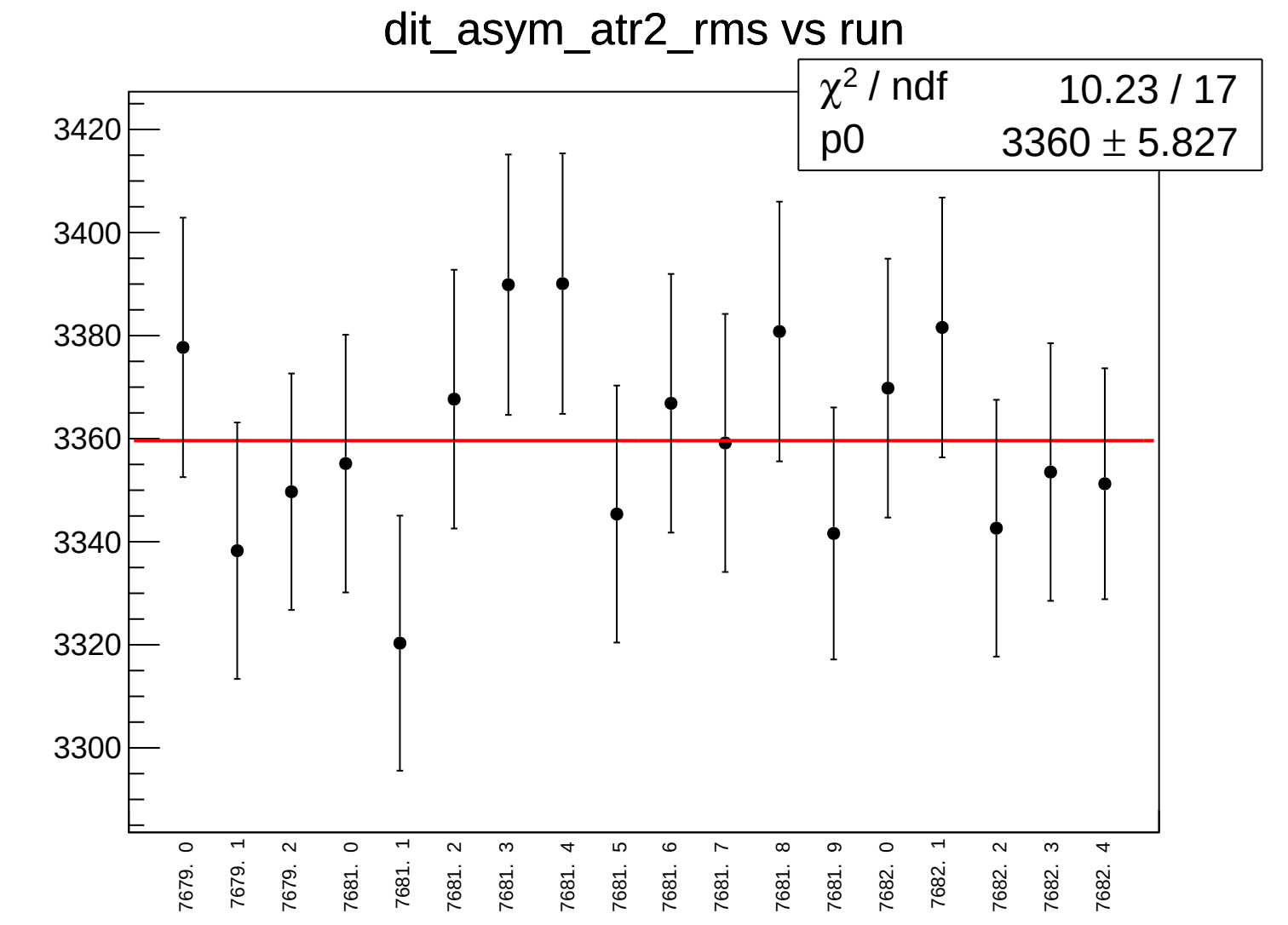

pull1D
Entries 18
Mean 0.01106
Std Dev 0.8811
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

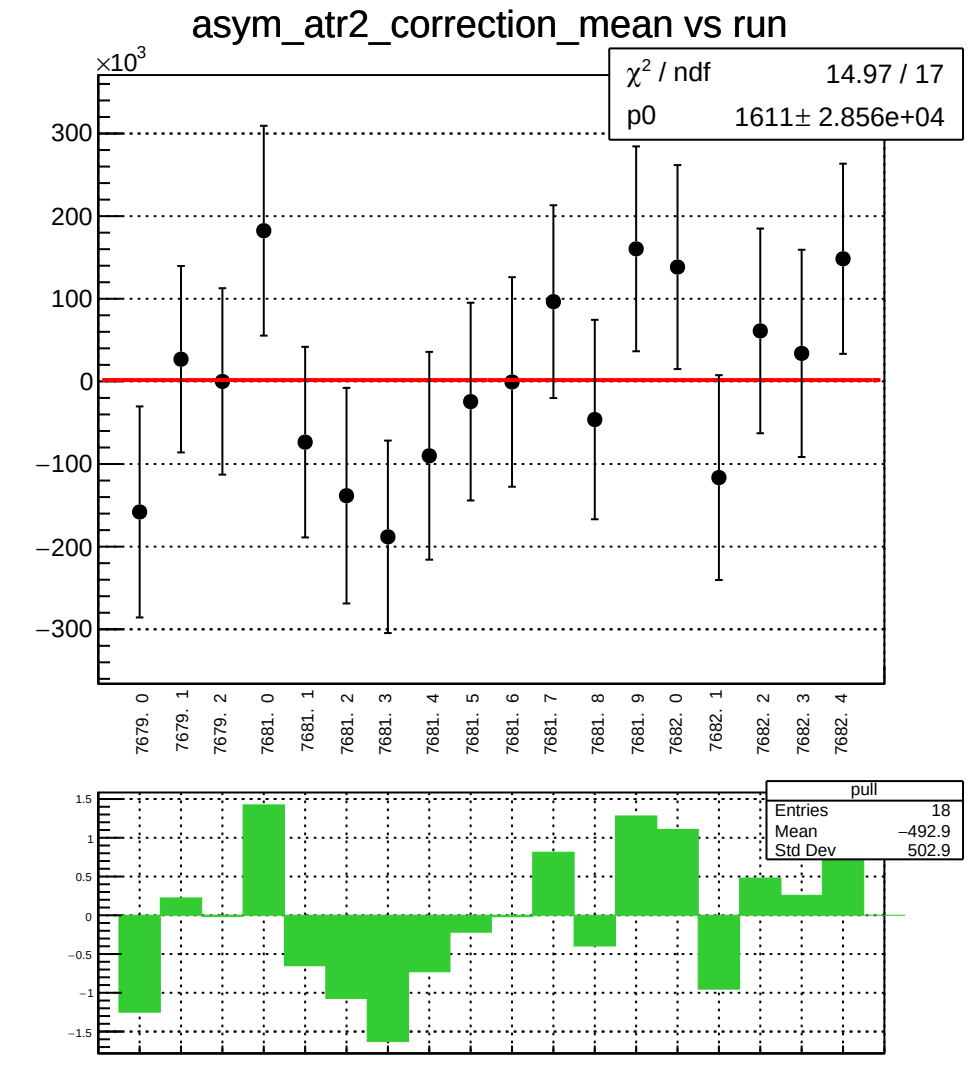

asym_atr1_rms vs run
χ² / ndf 157.6 / 17
p0 4198 ± 7.284
4400
4350
4300
4250
4200
4150
4100
4050
4000
3950
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

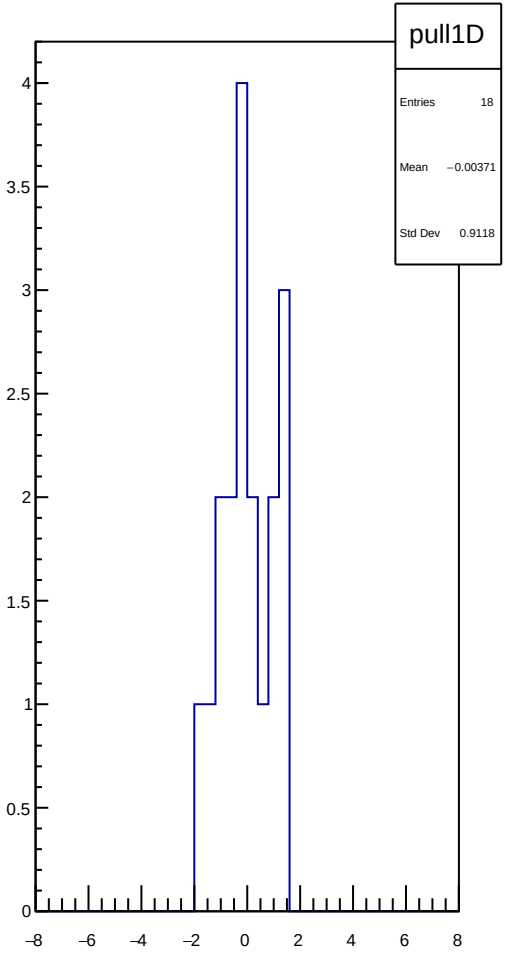

dit_asym_atr2_mean vs run
×10^3
χ^2 / ndf 11.87 / 17
p0 1865 ± 8241
100
50
0
−50
−100
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

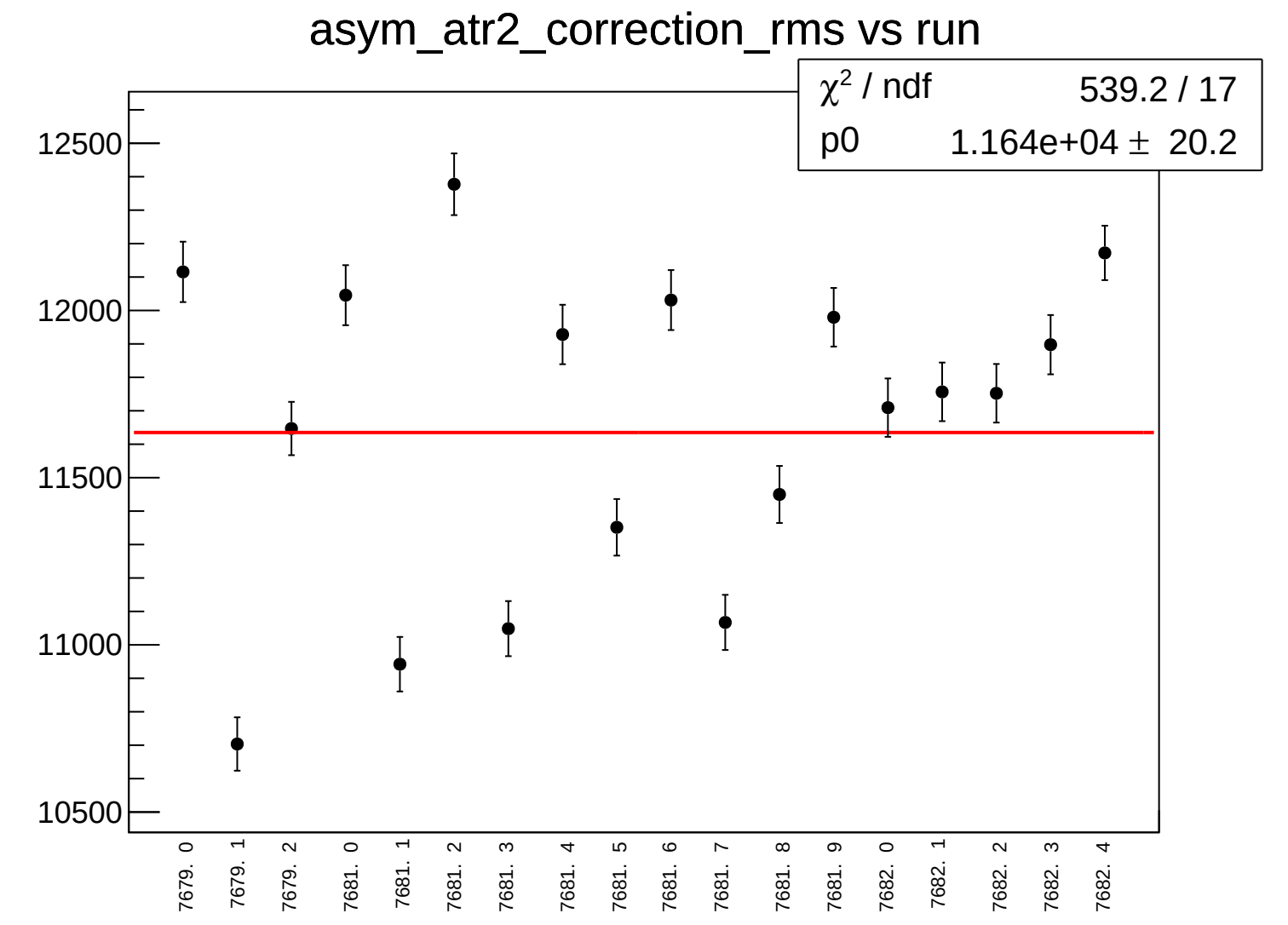

pull
Entries 18
Mean −157.1
Std Dev 171.7
1.5
1
0.5
0
−0.5
−1
−1.5

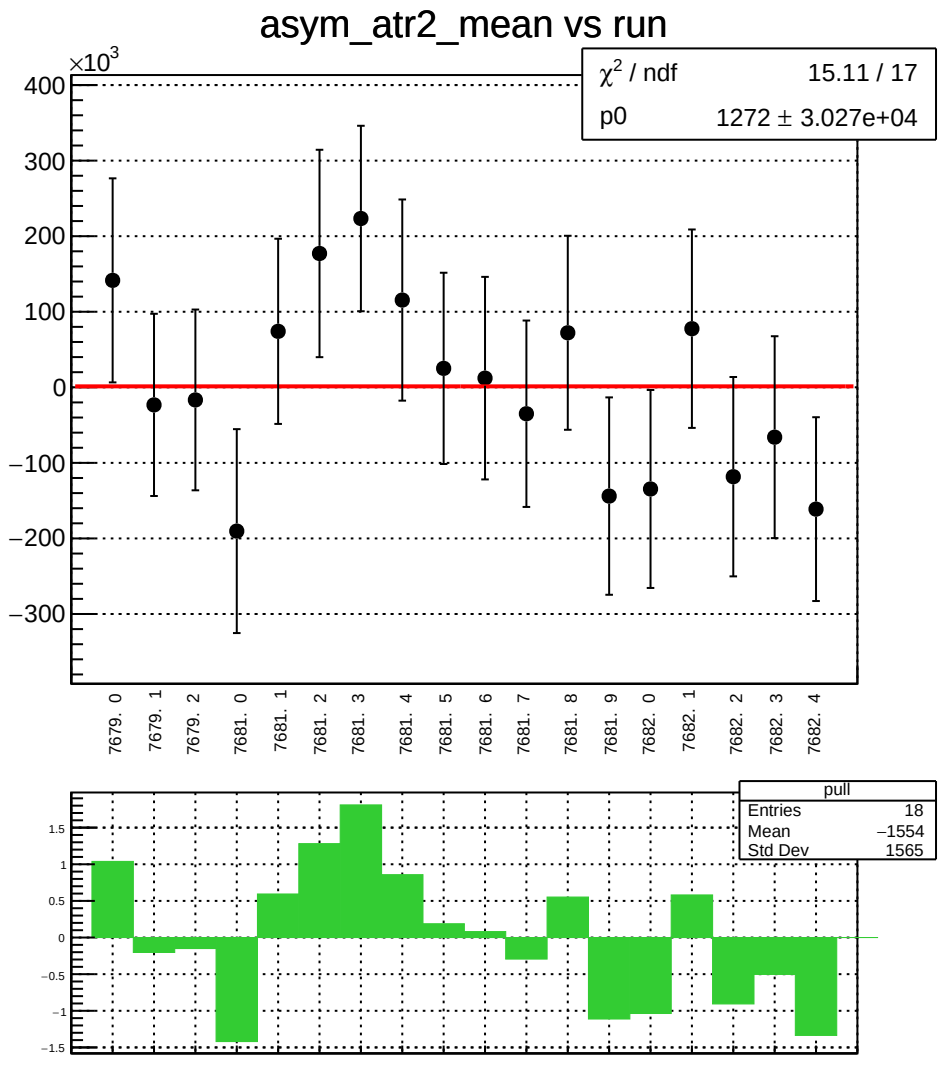

pull1D
Entries 18
Mean 0.00661
Std Dev 0.8121
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

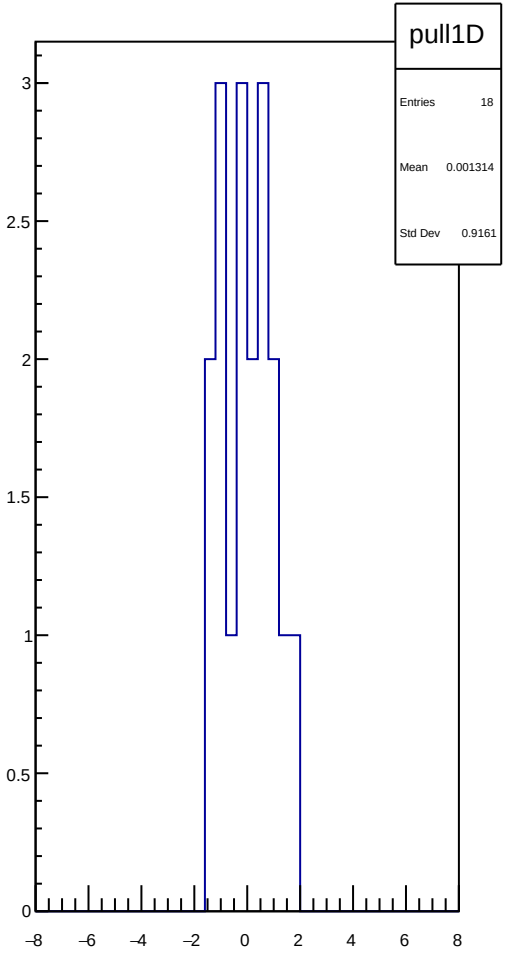

dit_asym_atr2_rms vs run
χ² / ndf 10.23 / 17
p0 3360 ± 5.827
3420
3400
3380
3360
3340
3320
3300
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

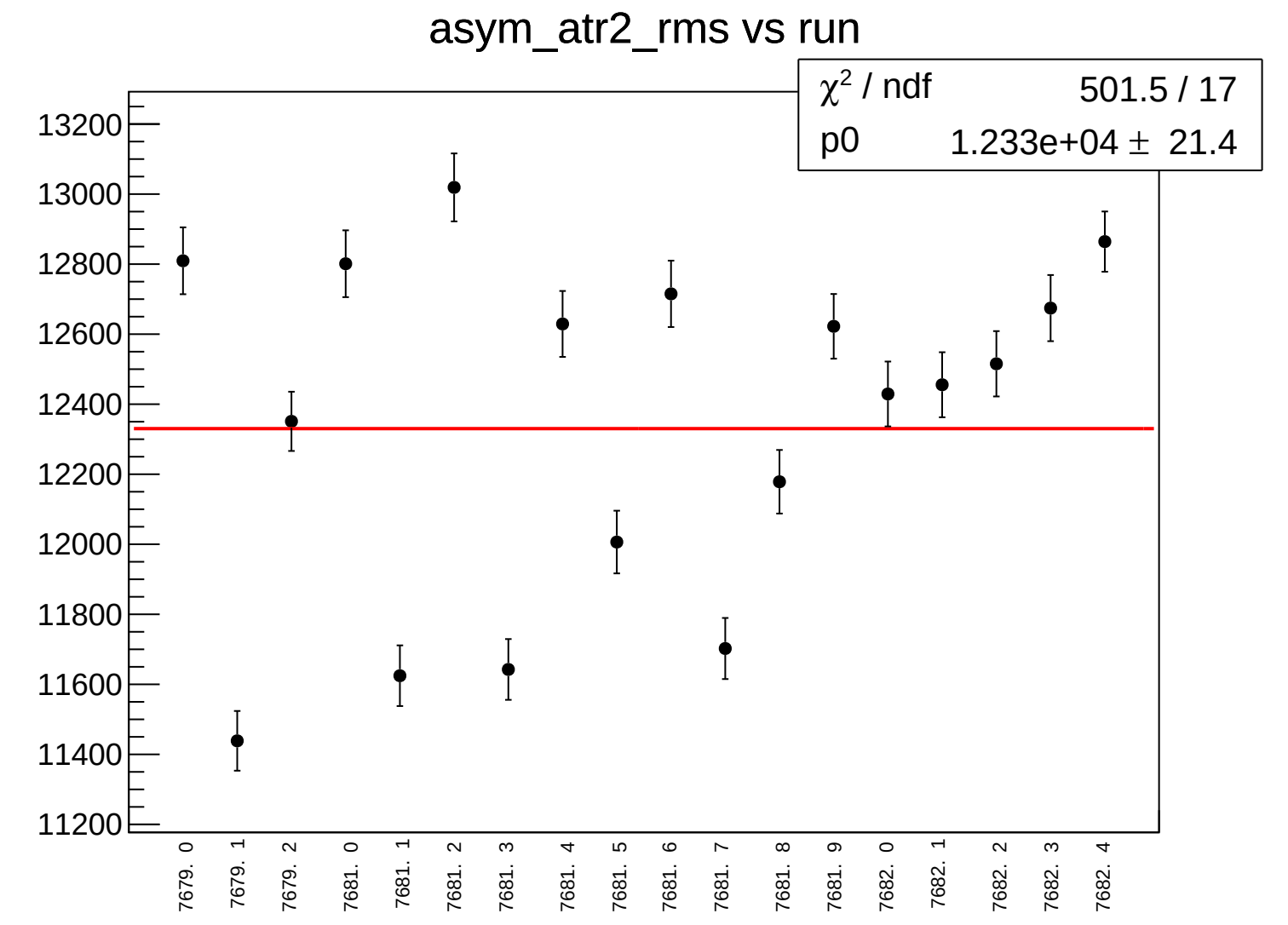

asym_atr2_correction_mean vs run
×10^3
χ² / ndf 14.97 / 17
p0 1611± 2.856e+04
300
200
100
0
−100
−200
−300
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −492.9
Std Dev 502.9
1.5
1
0.5
0
−0.5
−1
−1.5

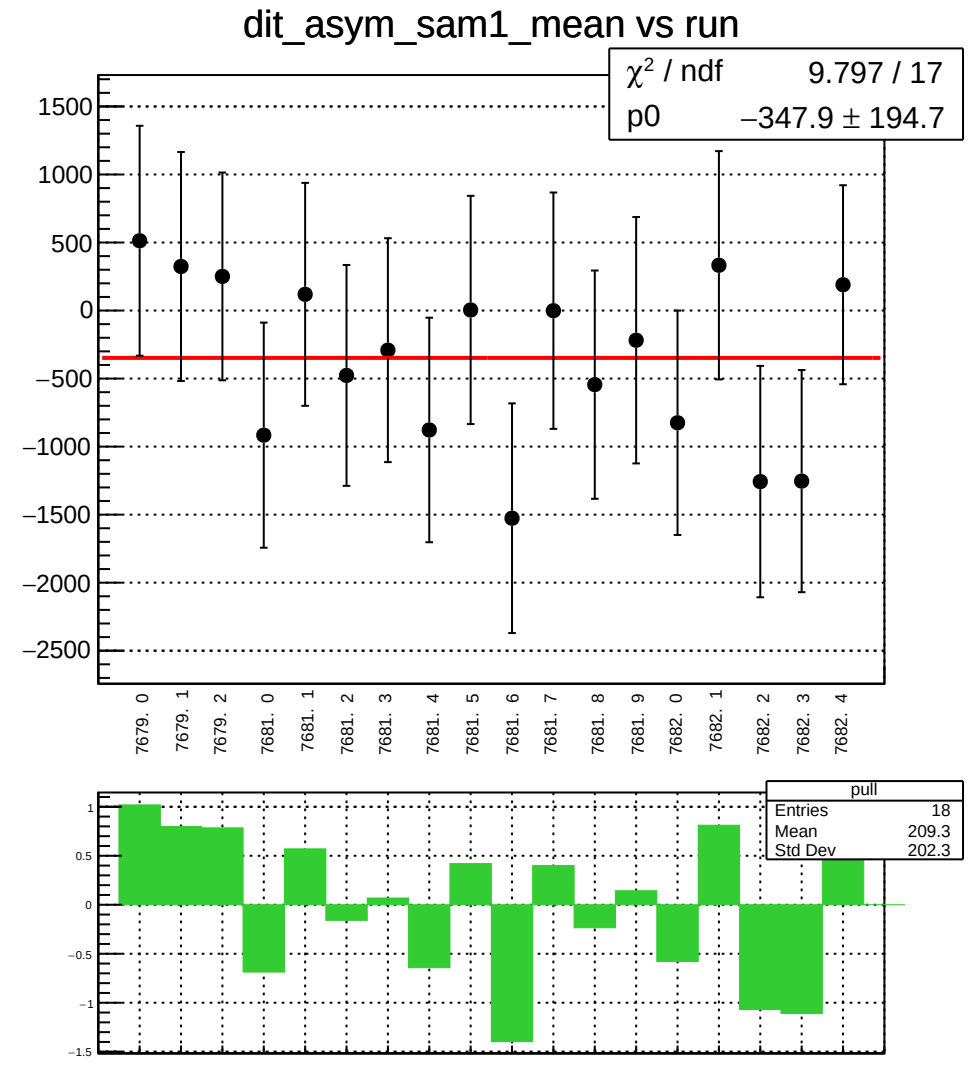

pull1D
Entries 18
Mean −0.00371
Std Dev 0.9118
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

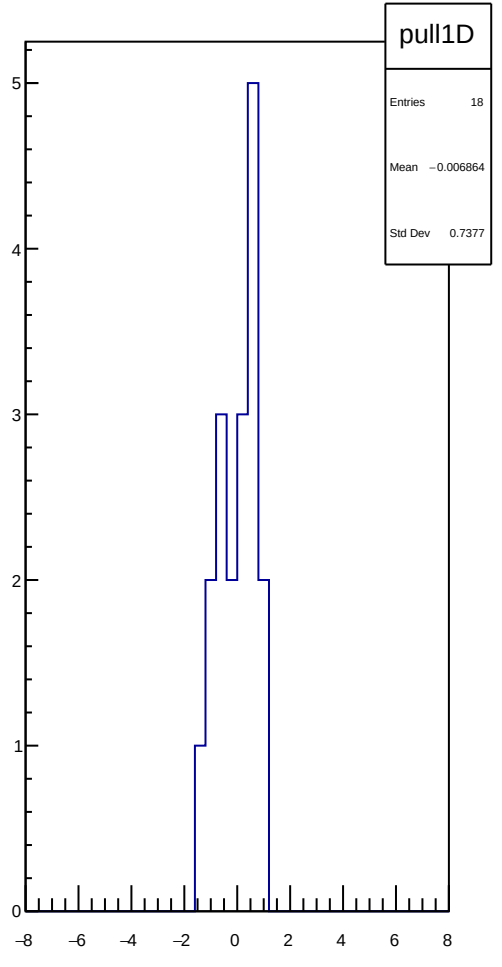

asym_atr2_correction_rms vs run
χ² / ndf 539.2 / 17
p0 1.164e+04 ± 20.2
12500
12000
11500
11000
10500
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

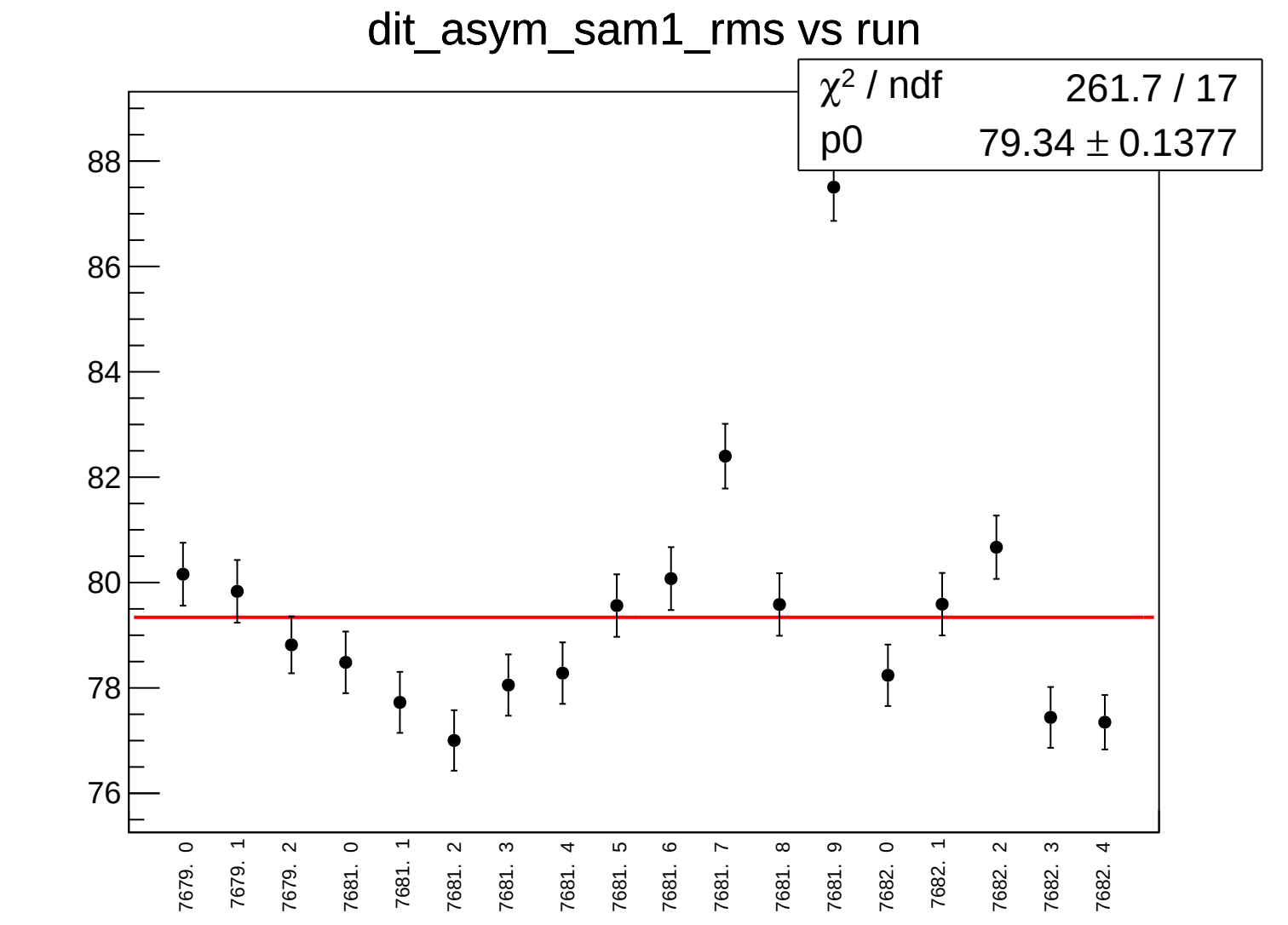

asym_atr2_mean vs run
×10^3
χ² / ndf 15.11 / 17
p0 1272 ± 3.027e+04
400
300
200
100
0
−100
−200
−300
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −1554
Std Dev 1565
1.5
1
0.5
0
−0.5
−1
−1.5

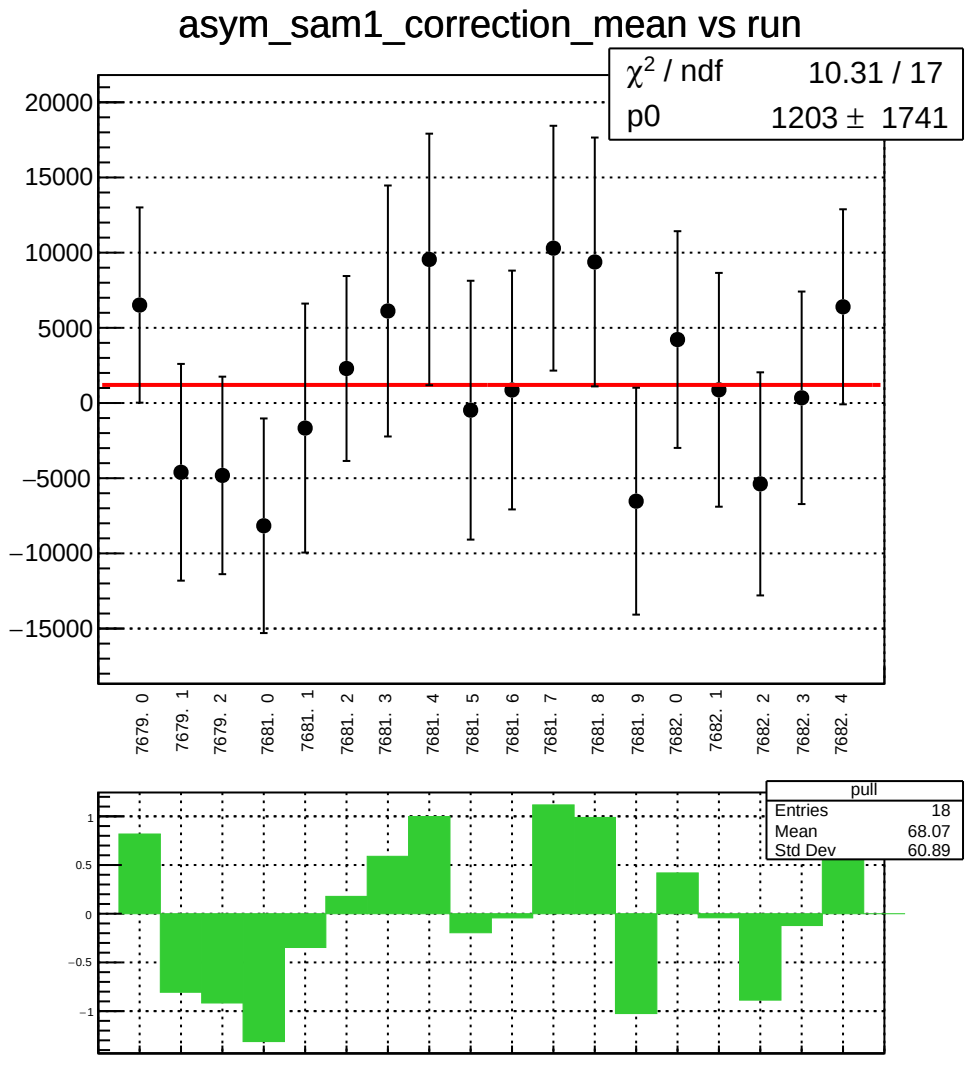

pull1D
Entries 18
Mean 0.001314
Std Dev 0.9161
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

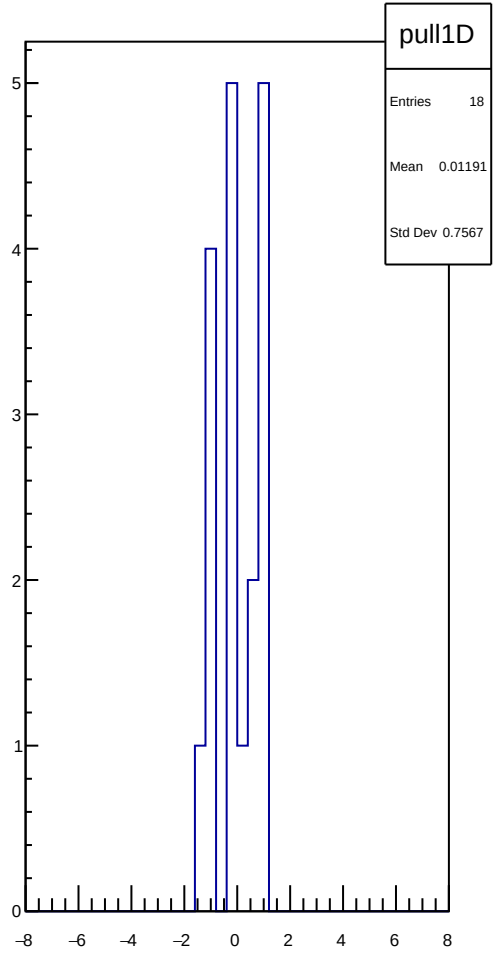

asym_atr2_rms vs run
χ² / ndf 501.5 / 17
p0 1.233e+04 ± 21.4
13200
13000
12800
12600
12400
12200
12000
11800
11600
11400
11200
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

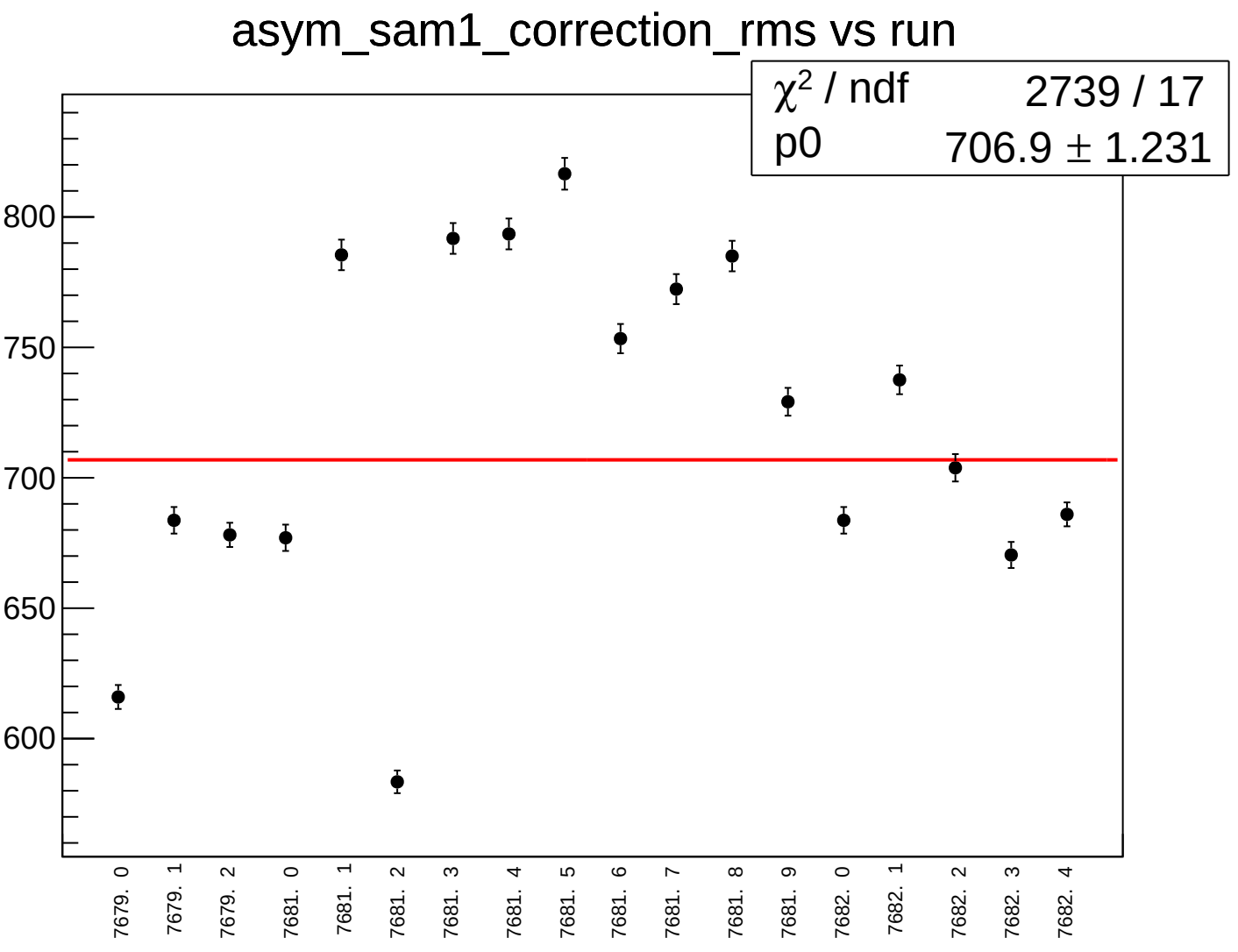

dit_asym_sam1_mean vs run
χ² / ndf 9.797 / 17
p0 −347.9 ± 194.7
1500
1000
500
0
−500
−1000
−1500
−2000
−2500
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 209.3
Std Dev 202.3
1
0.5
0
−0.5
−1
−1.5

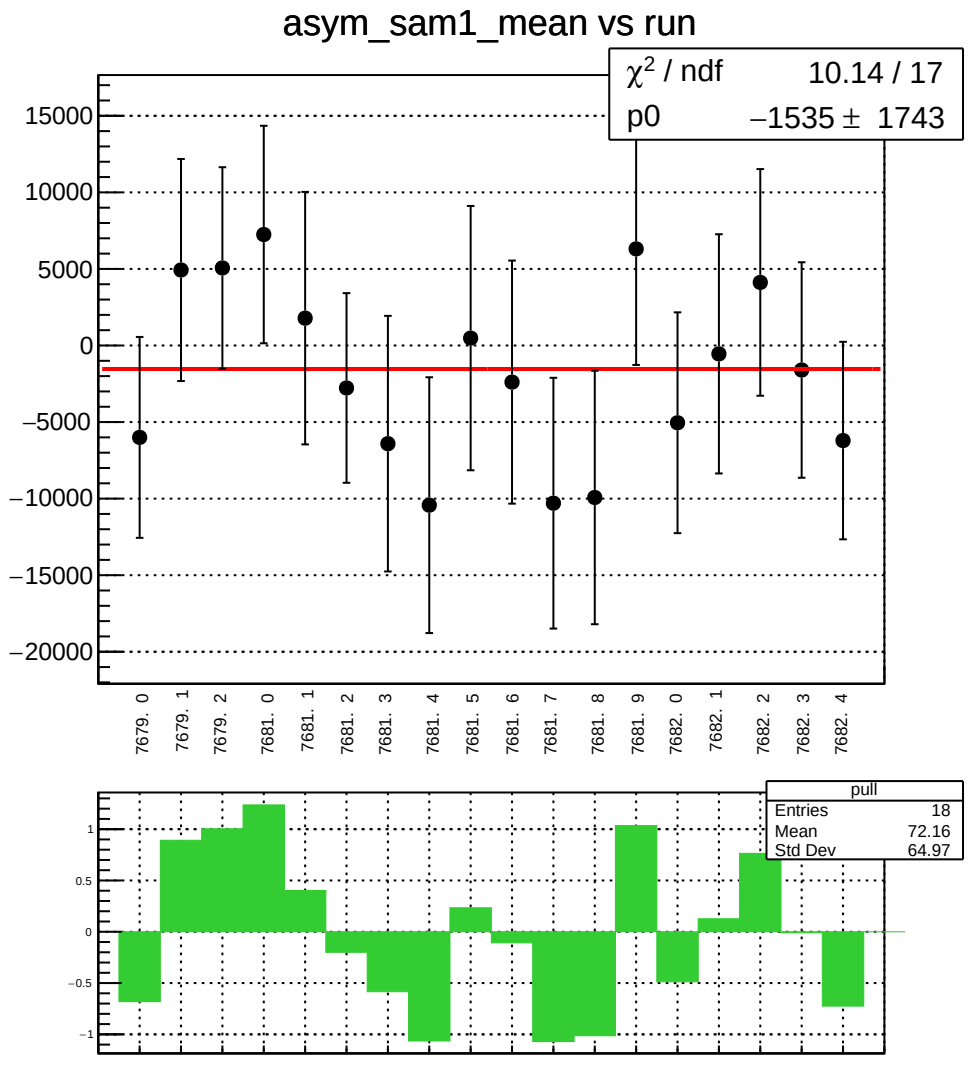

pull1D
Entries 18
Mean −0.006864
Std Dev 0.7377
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

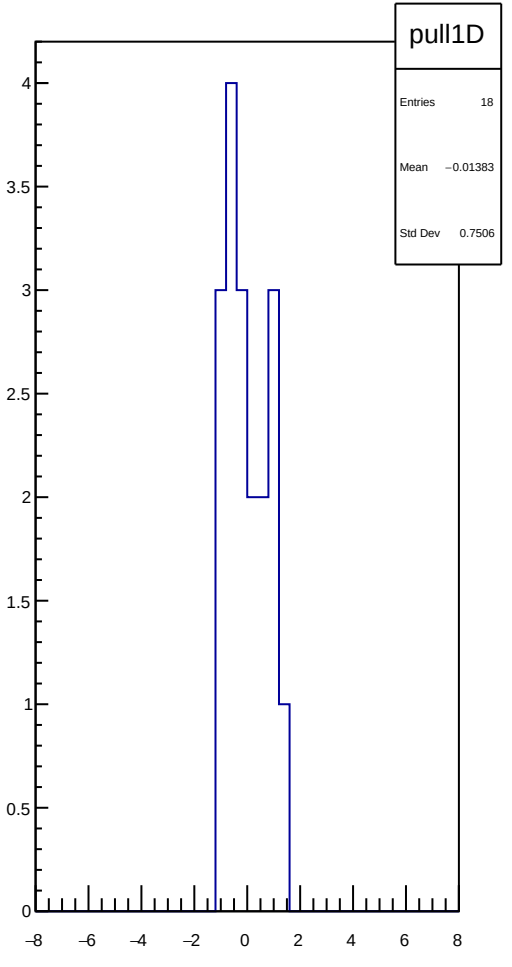

dit_asym_sam1_rms vs run
χ² / ndf 261.7 / 17
p0 79.34 ± 0.1377
88
86
84
82
80
78
76
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

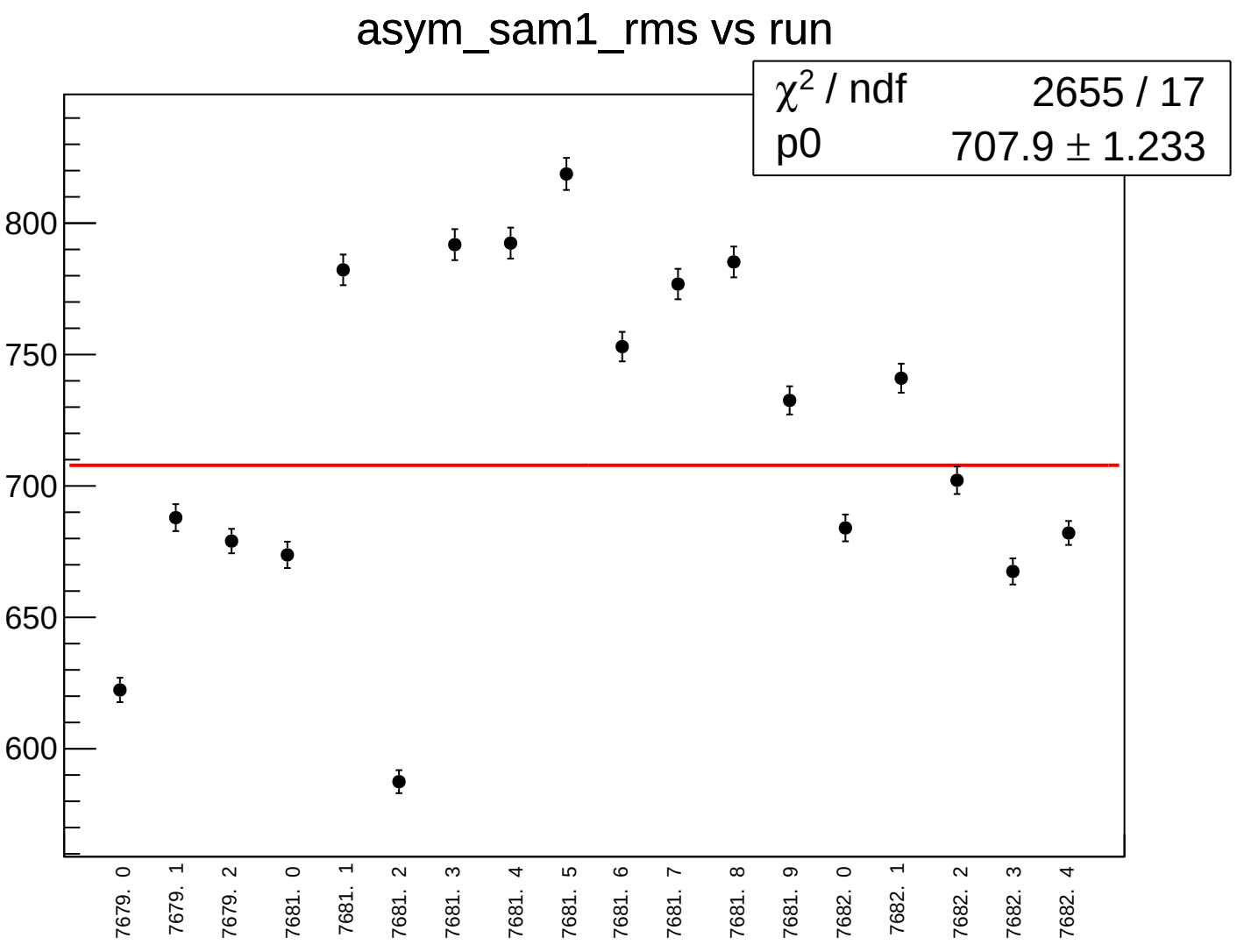

asym_sam1_correction_mean vs run
χ² / ndf 10.31 / 17
p0 1203 ± 1741
20000
15000
10000
5000
0
−5000
−10000
−15000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 68.07
Std Dev 60.89
1
0.5
0
−0.5
−1

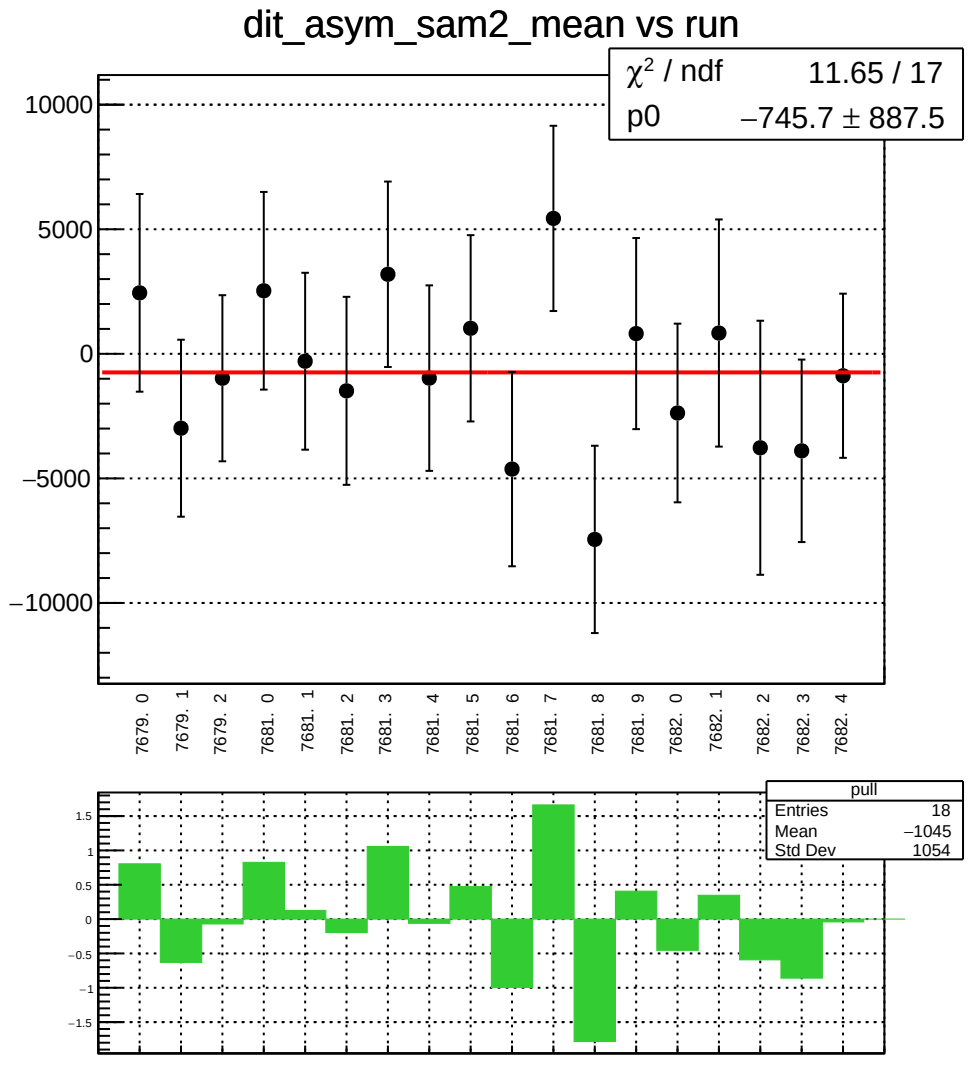

pull1D
Entries 18
Mean 0.01191
Std Dev 0.7567
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

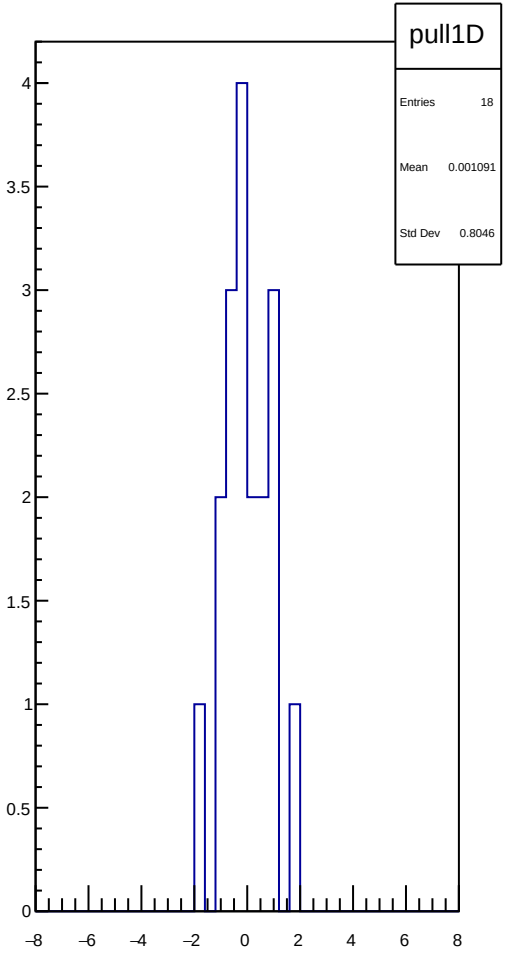

asym_sam1_correction_rms vs run
χ² / ndf 2739 / 17
p0 706.9 ± 1.231
800
750
700
650
600
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

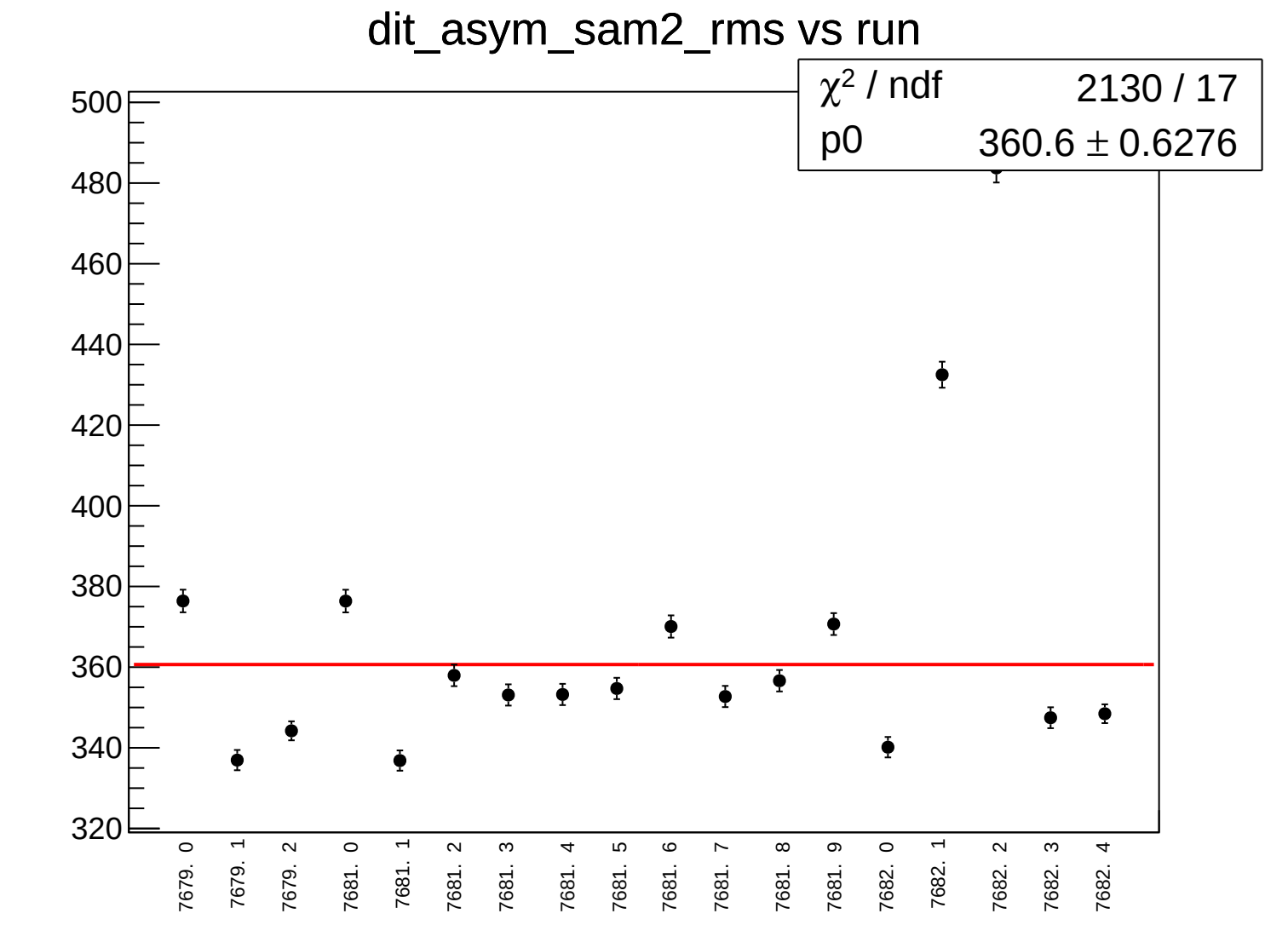

asym_sam1_mean vs run
χ² / ndf 10.14 / 17
p0 −1535 ± 1743
15000
10000
5000
0
−5000
−10000
−15000
−20000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 72.16
Std Dev 64.97
1
0.5
0
−0.5
−1

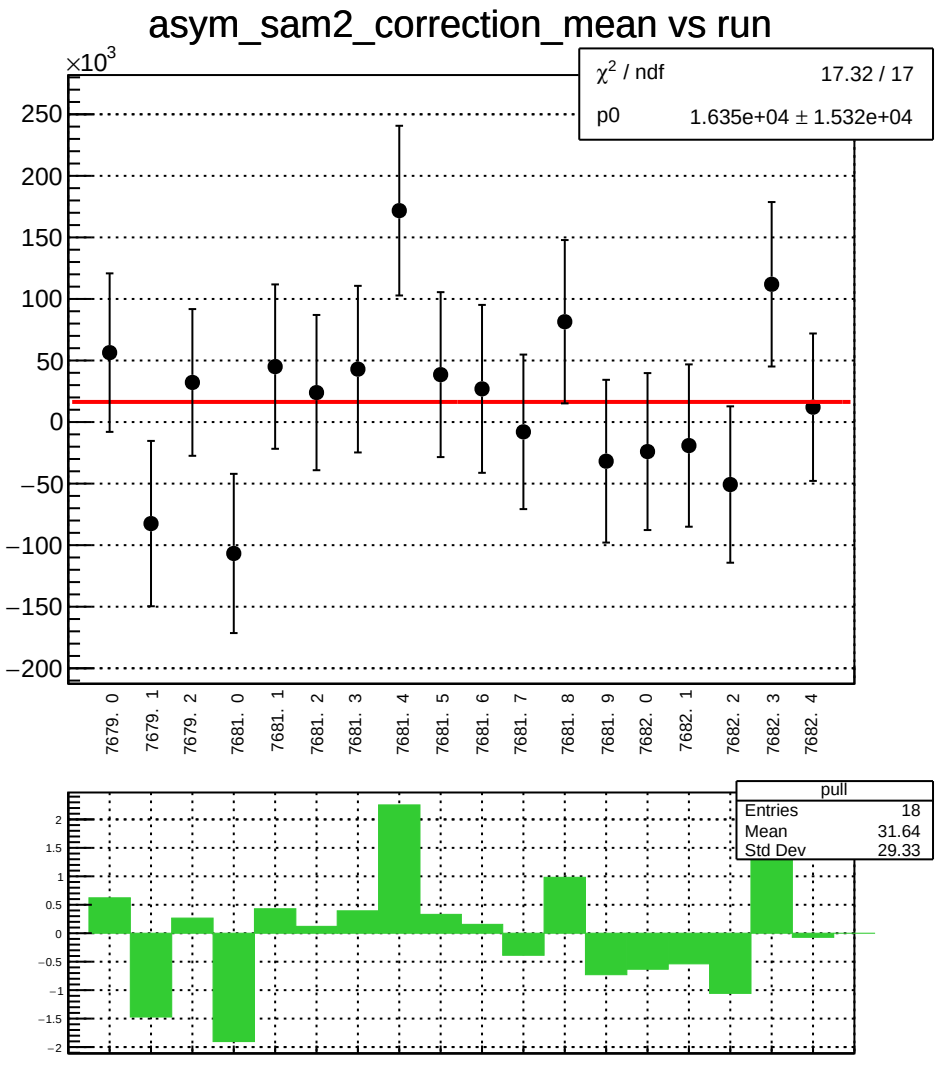

pull1D
Entries 18
Mean −0.01383
Std Dev 0.7506
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

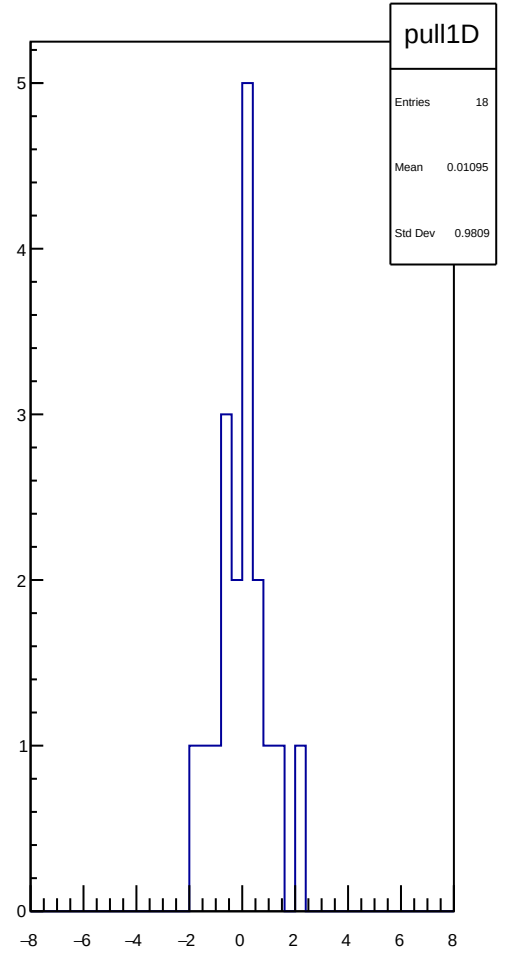

asym_sam1_rms vs run
χ² / ndf 2655 / 17
p0 707.9 ± 1.233
800
750
700
650
600
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

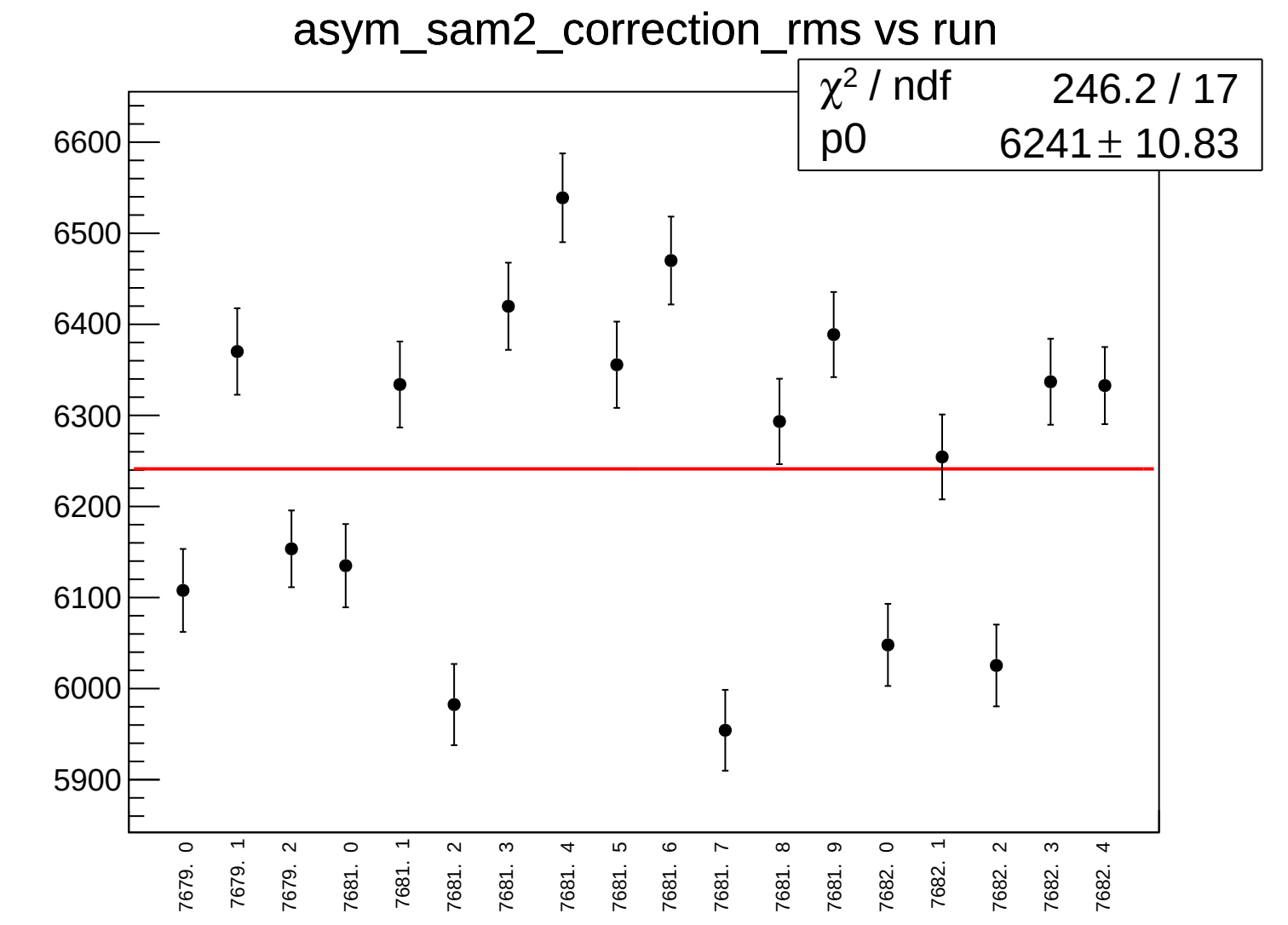

dit_asym_sam2_mean vs run
χ² / ndf 11.65 / 17
p0 −745.7 ± 887.5
10000
5000
0
−5000
−10000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −1045
Std Dev 1054
1.5
1
0.5
0
−0.5
−1
−1.5

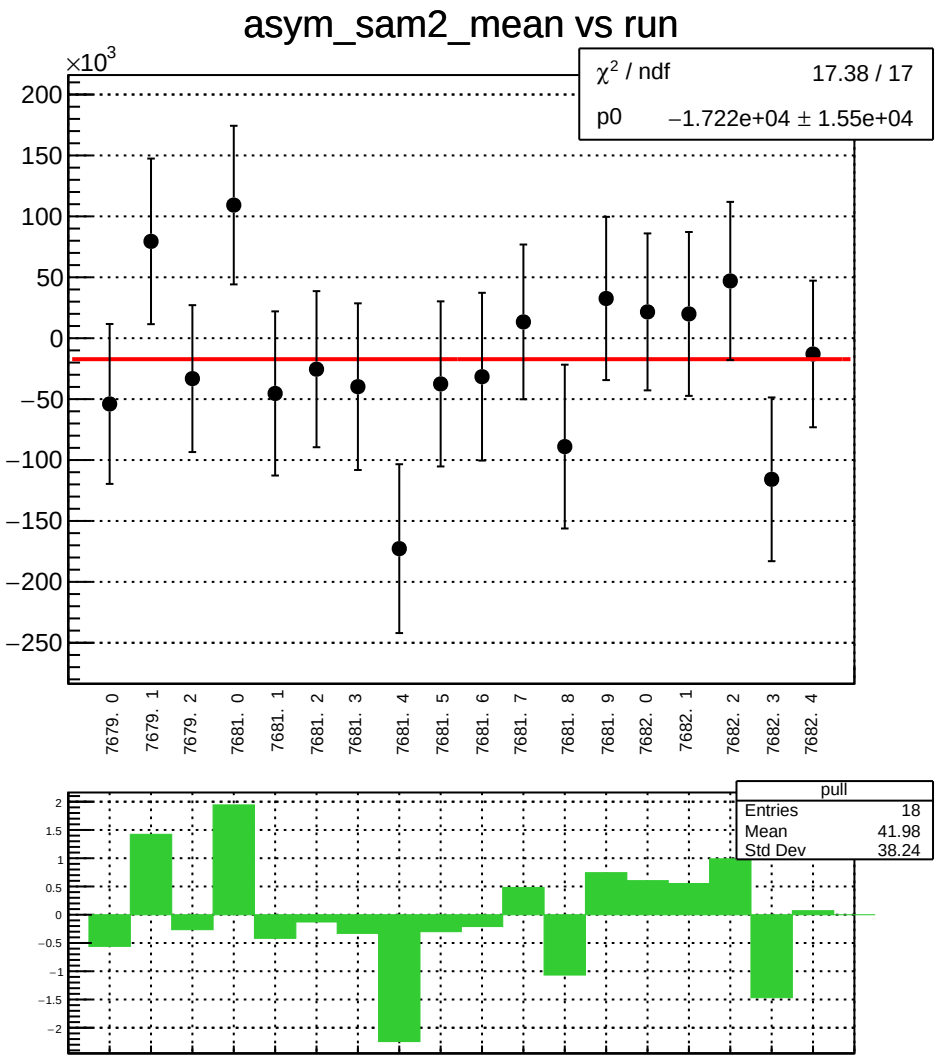

pull1D
Entries 18
Mean 0.001091
Std Dev 0.8046
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

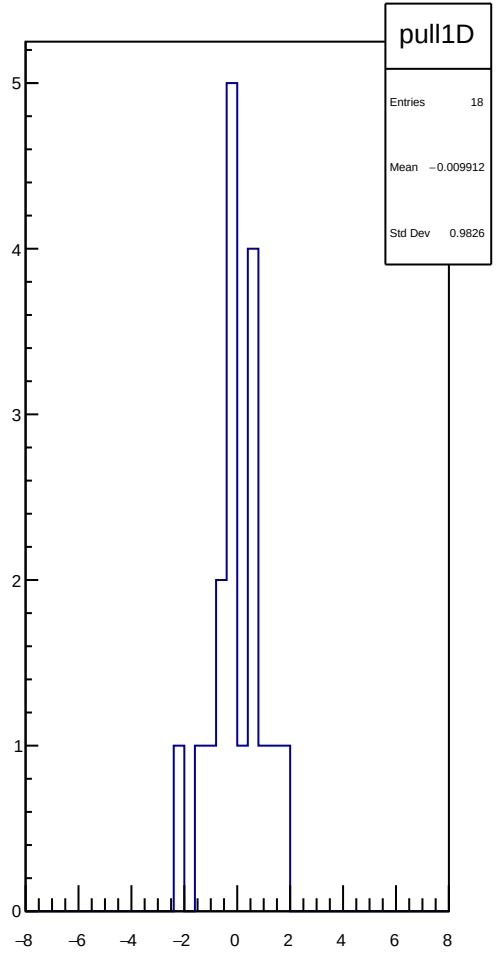

dit_asym_sam2_rms vs run
χ² / ndf 2130 / 17
p0 360.6 ± 0.6276
500
480
460
440
420
400
380
360
340
320
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

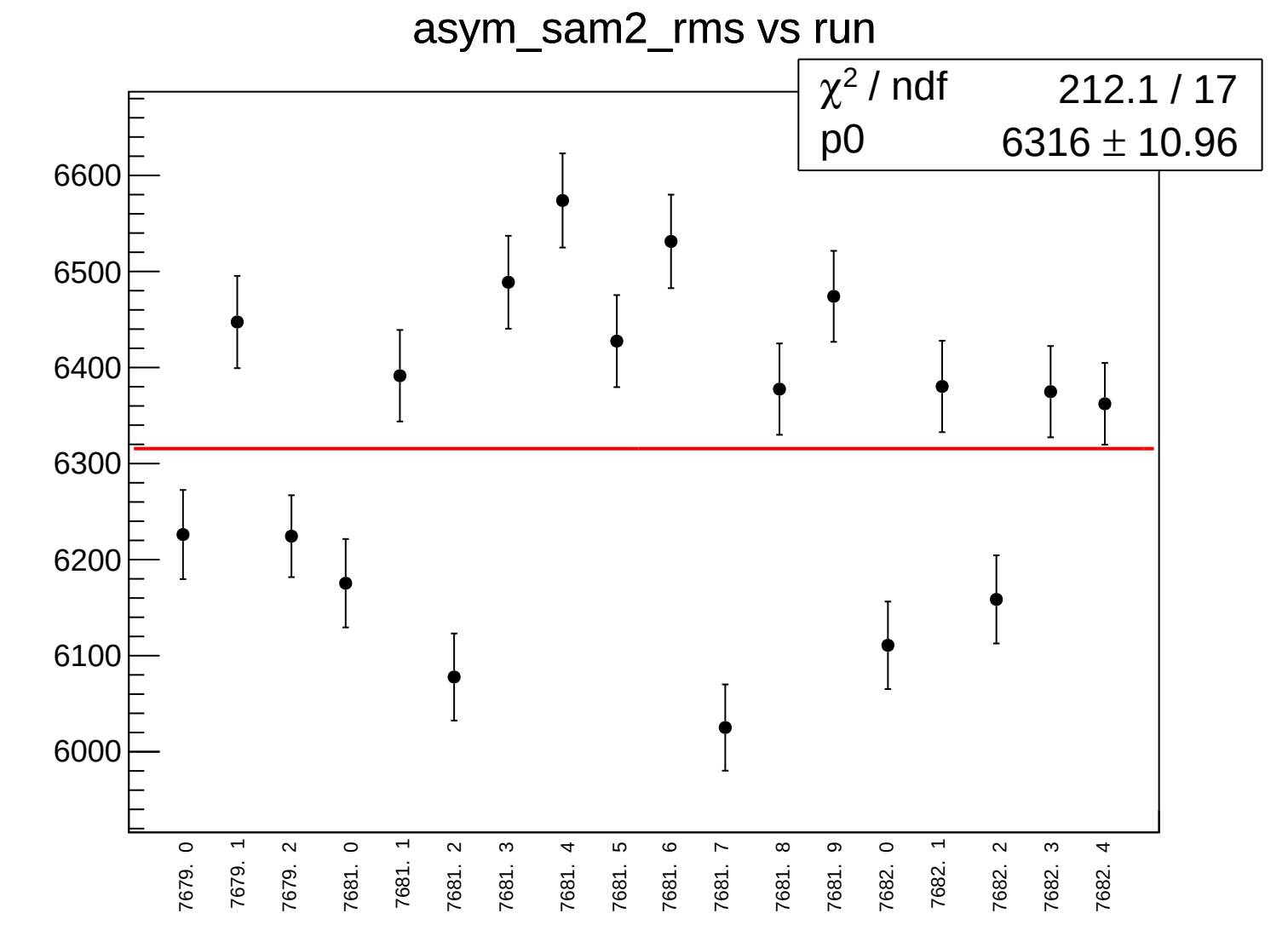

asym_sam2_correction_mean vs run
×10^3
χ² / ndf 17.32 / 17
p0 1.635e+04 ± 1.532e+04
250
200
150
100
50
0
−50
−100
−150
−200
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 31.64
Std Dev 29.33
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

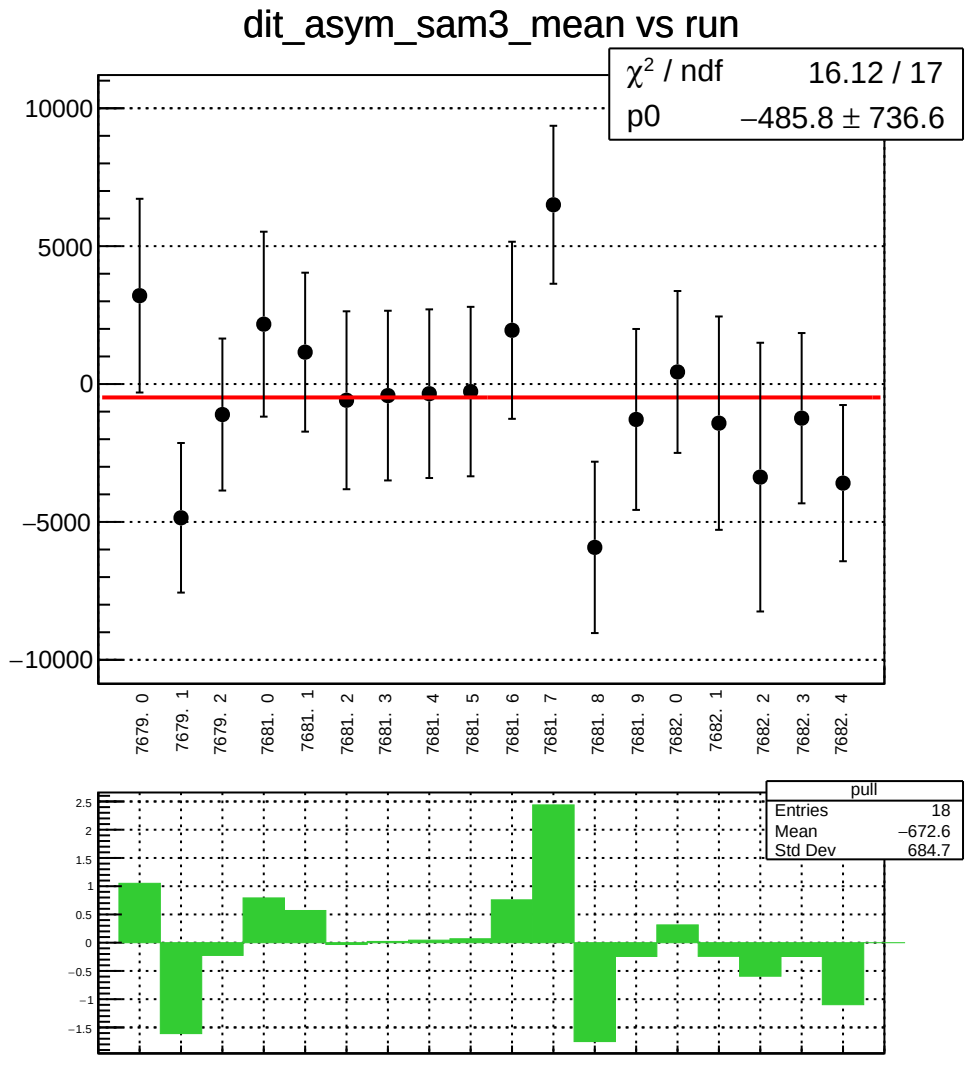

pull1D
Entries 18
Mean 0.01095
Std Dev 0.9809
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

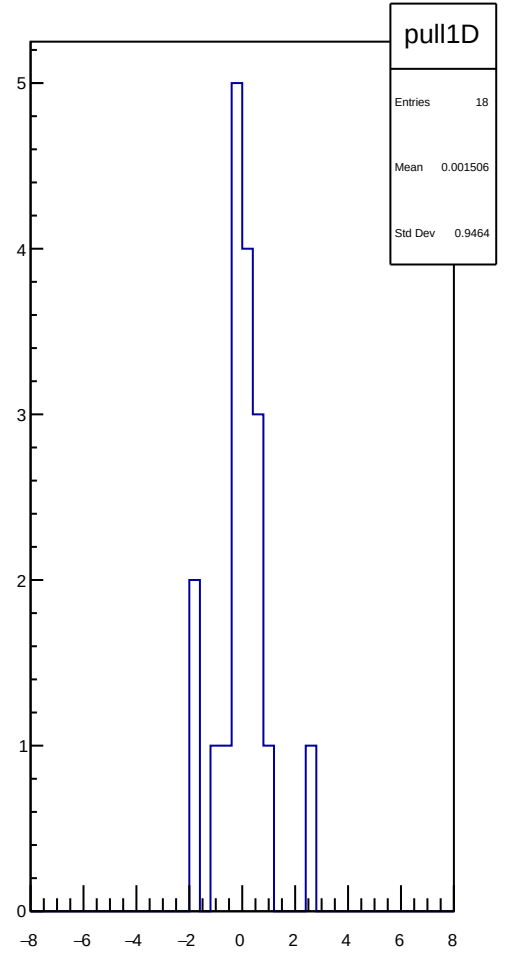

asym_sam2_correction_rms vs run
χ² / ndf 246.2 / 17
p0 6241 ± 10.83
6600
6500
6400
6300
6200
6100
6000
5900
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

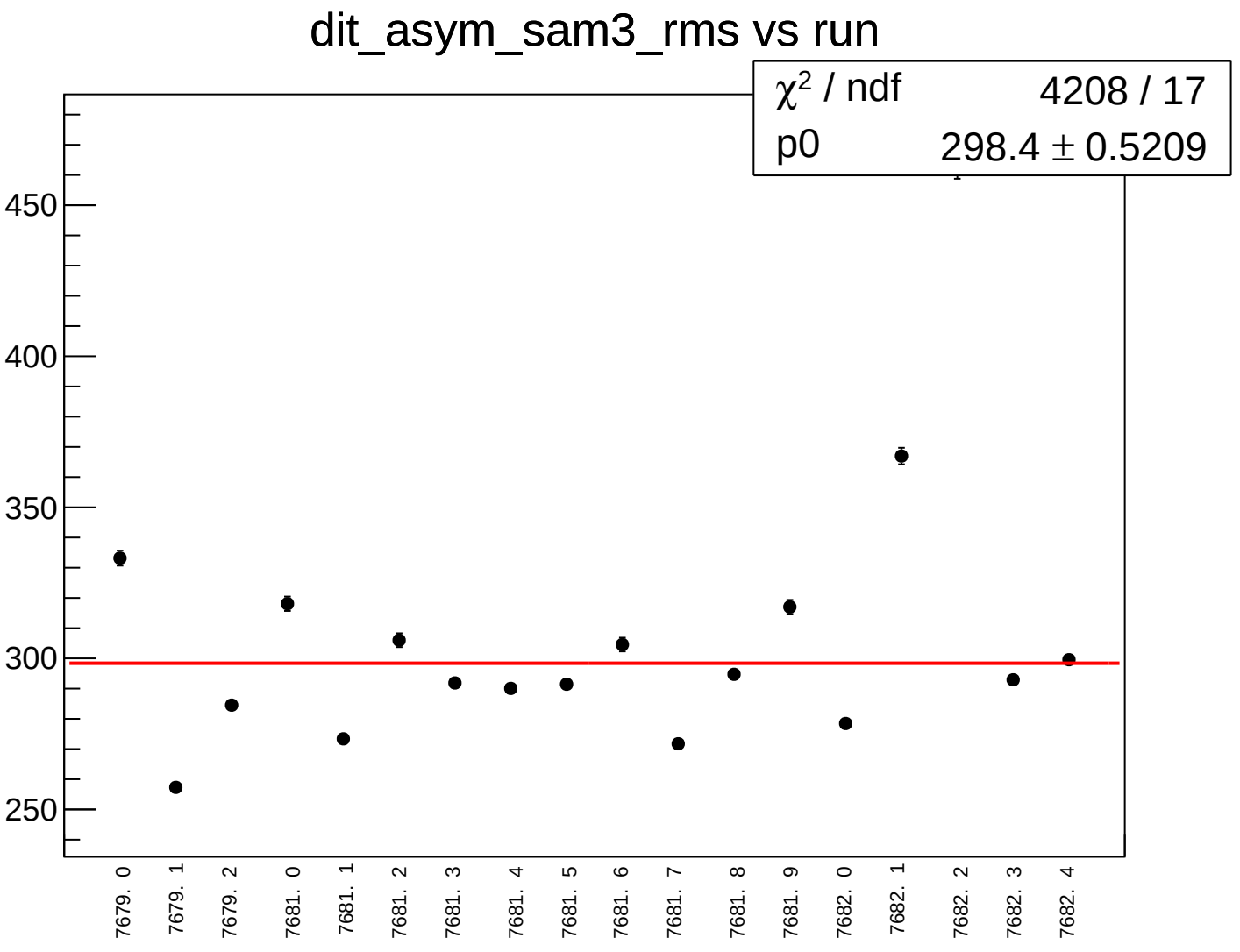

asym_sam2_mean vs run
×10^3
χ² / ndf 17.38 / 17
p0 −1.722e+04 ± 1.55e+04
200
150
100
50
0
−50
−100
−150
−200
−250
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 41.98
Std Dev 38.24
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

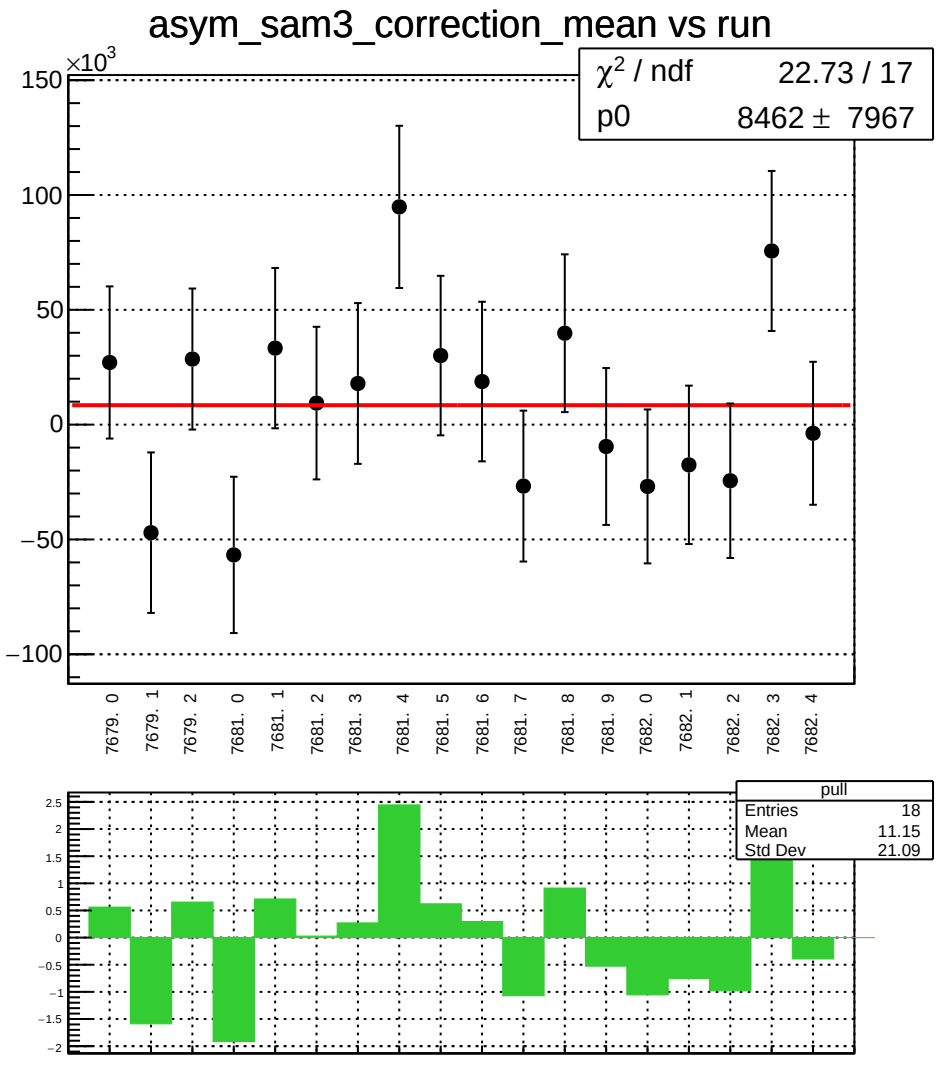

pull1D
Entries 18
Mean −0.009912
Std Dev 0.9826
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

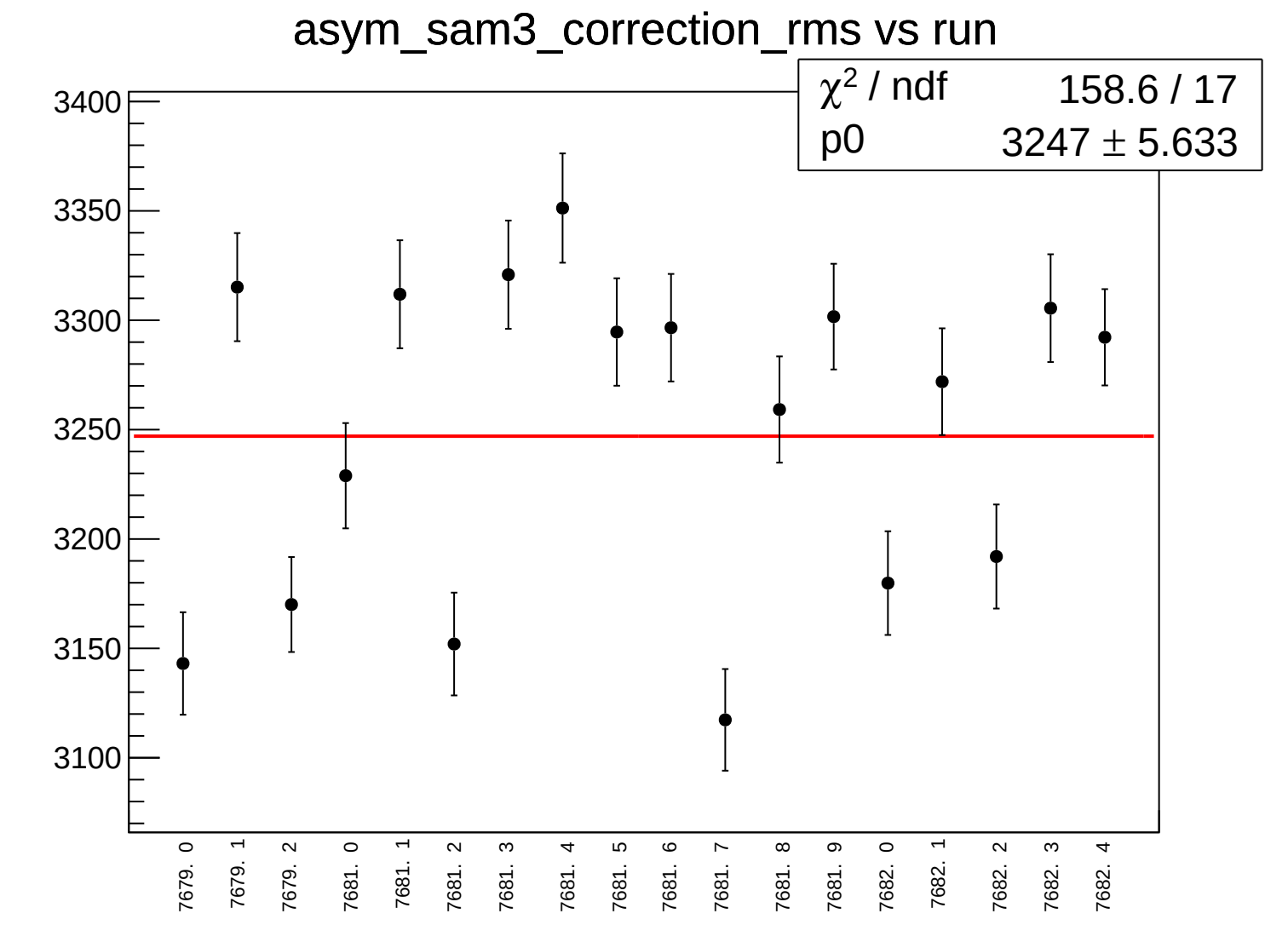

asym_sam2_rms vs run
χ² / ndf 212.1 / 17
p0 6316 ± 10.96
6600
6500
6400
6300
6200
6100
6000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

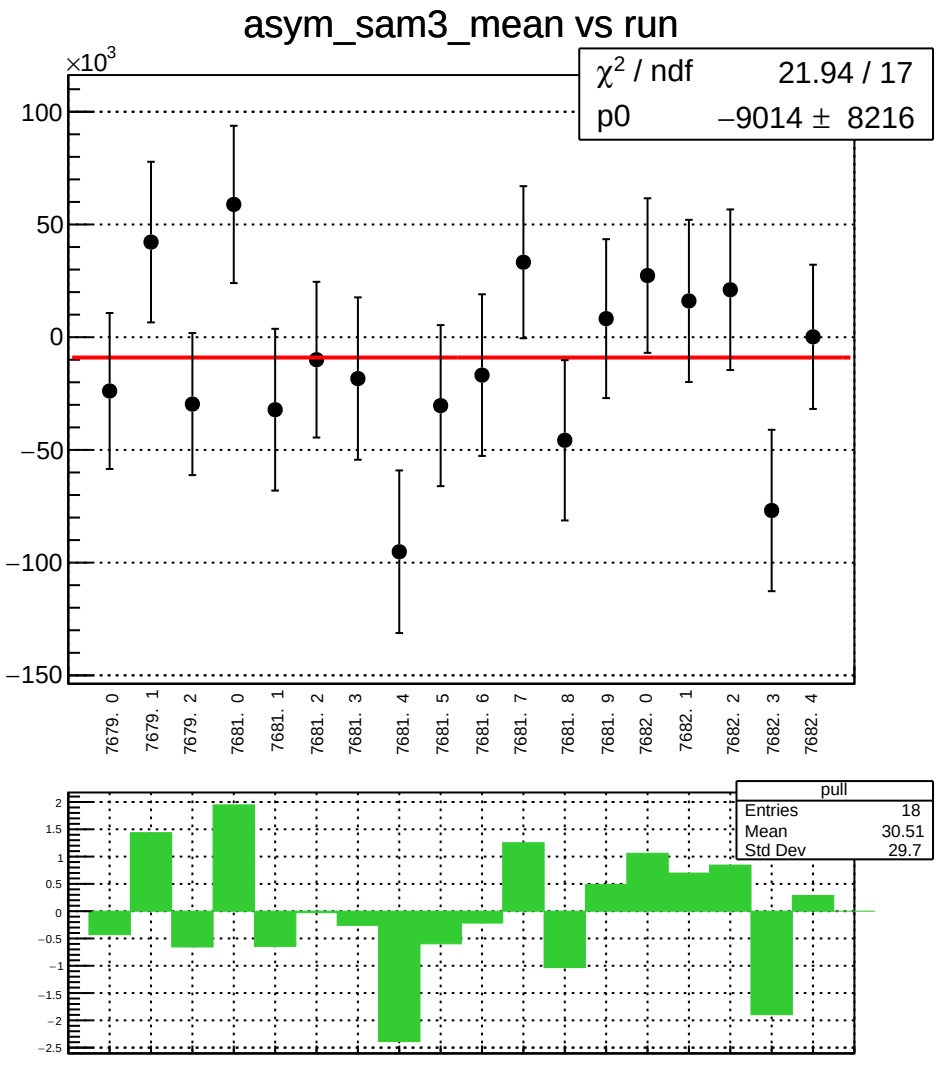

dit_asym_sam3_mean vs run
χ² / ndf 16.12 / 17
p0 −485.8 ± 736.6
10000
5000
0
−5000
−10000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −672.6
Std Dev 684.7
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

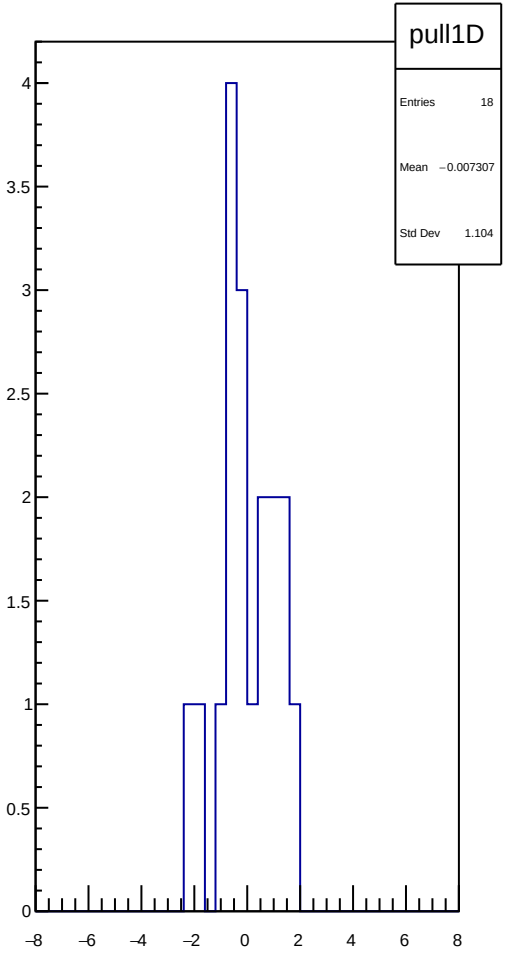

pull1D
Entries 18
Mean 0.001506
Std Dev 0.9464
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

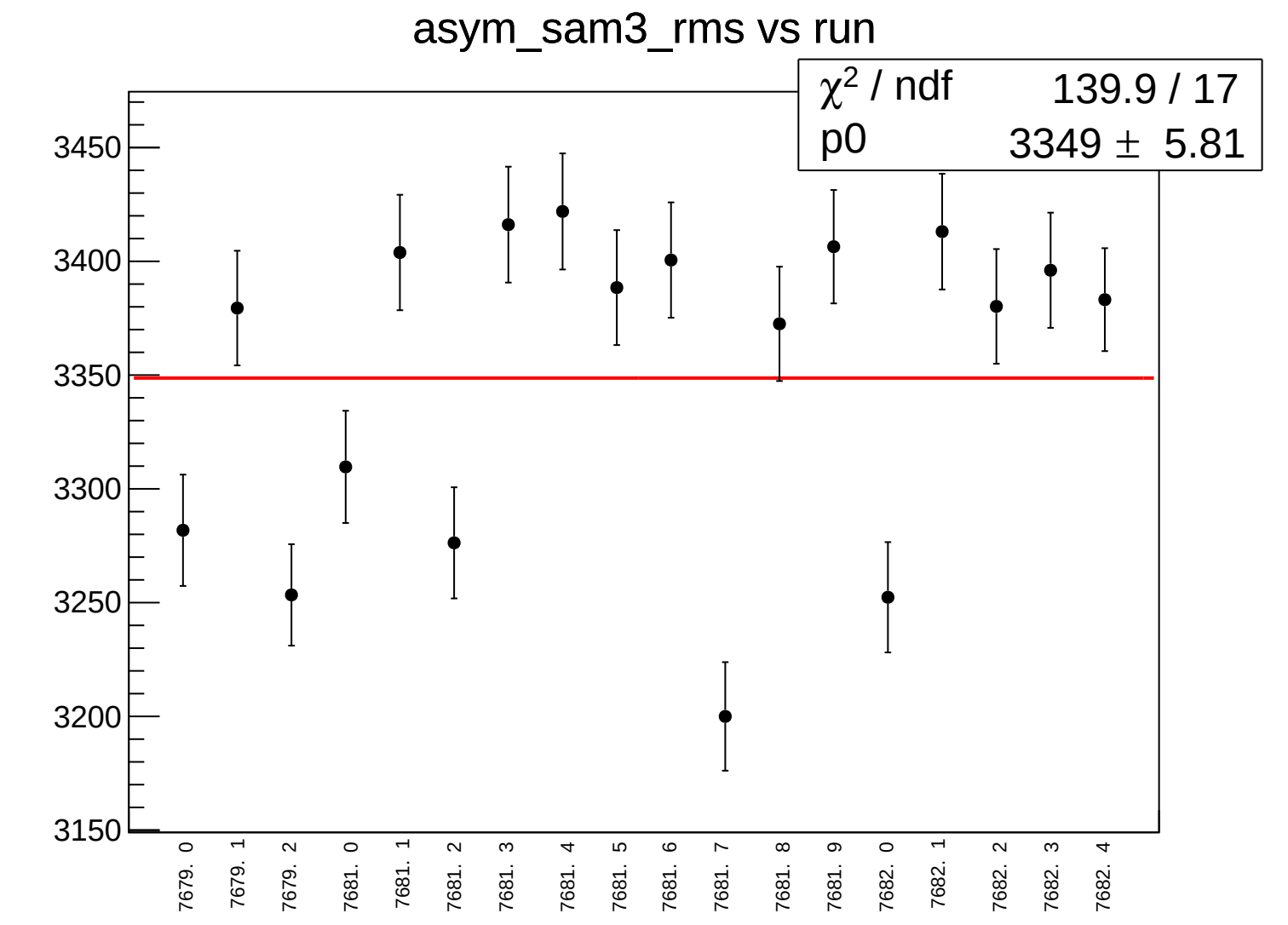

dit_asym_sam3_rms vs run
χ² / ndf 4208 / 17
p0 298.4 ± 0.5209
450
400
350
300
250
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

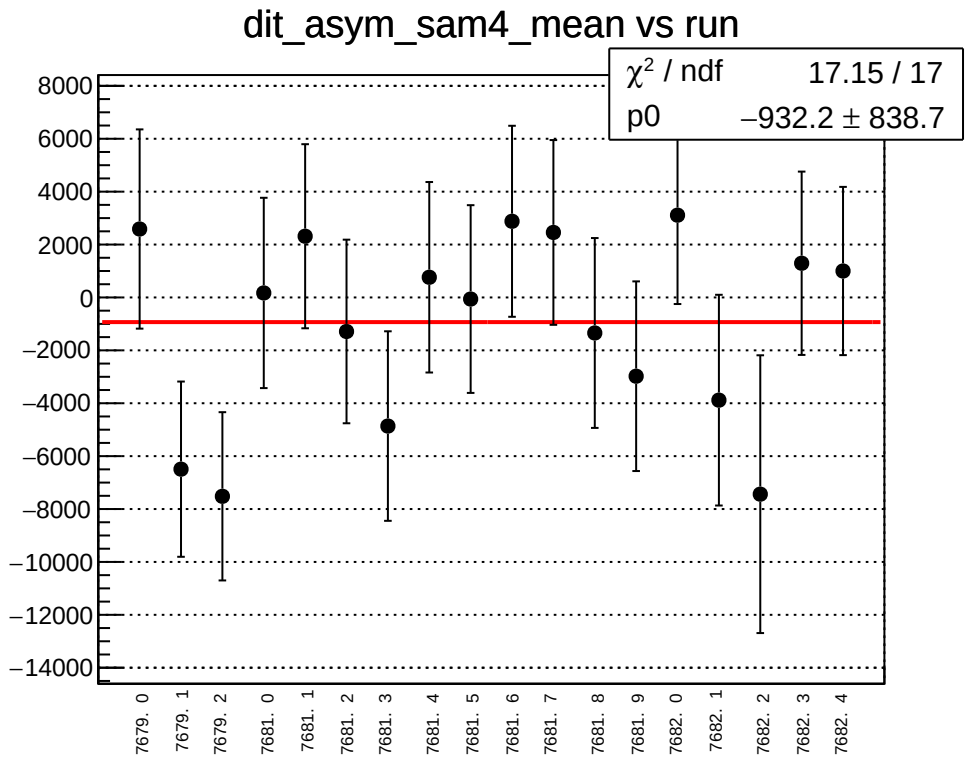

asym_sam3_correction_mean vs run
×10^3
χ^2 / ndf 22.73 / 17
p0 8462 ± 7967
150
100
50
0
−50
−100
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 11.15
Std Dev 21.09
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 18
Mean 0.008257
Std Dev 1.124
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

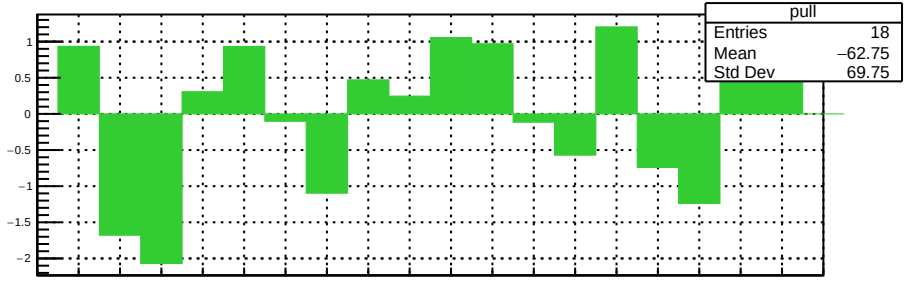

asym_sam3_correction_rms vs run
χ² / ndf 158.6 / 17
p0 3247 ± 5.633
3400
3350
3300
3250
3200
3150
3100
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

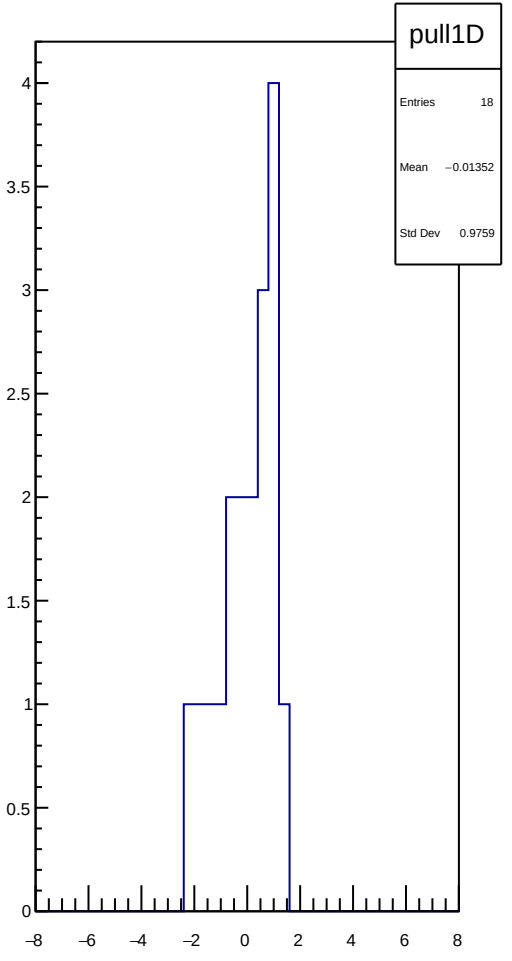

asym_sam3_mean vs run
×10^3
χ² / ndf 21.94 / 17
p0 −9014 ± 8216
100
50
0
−50
−100
−150
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 30.51
Std Dev 29.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

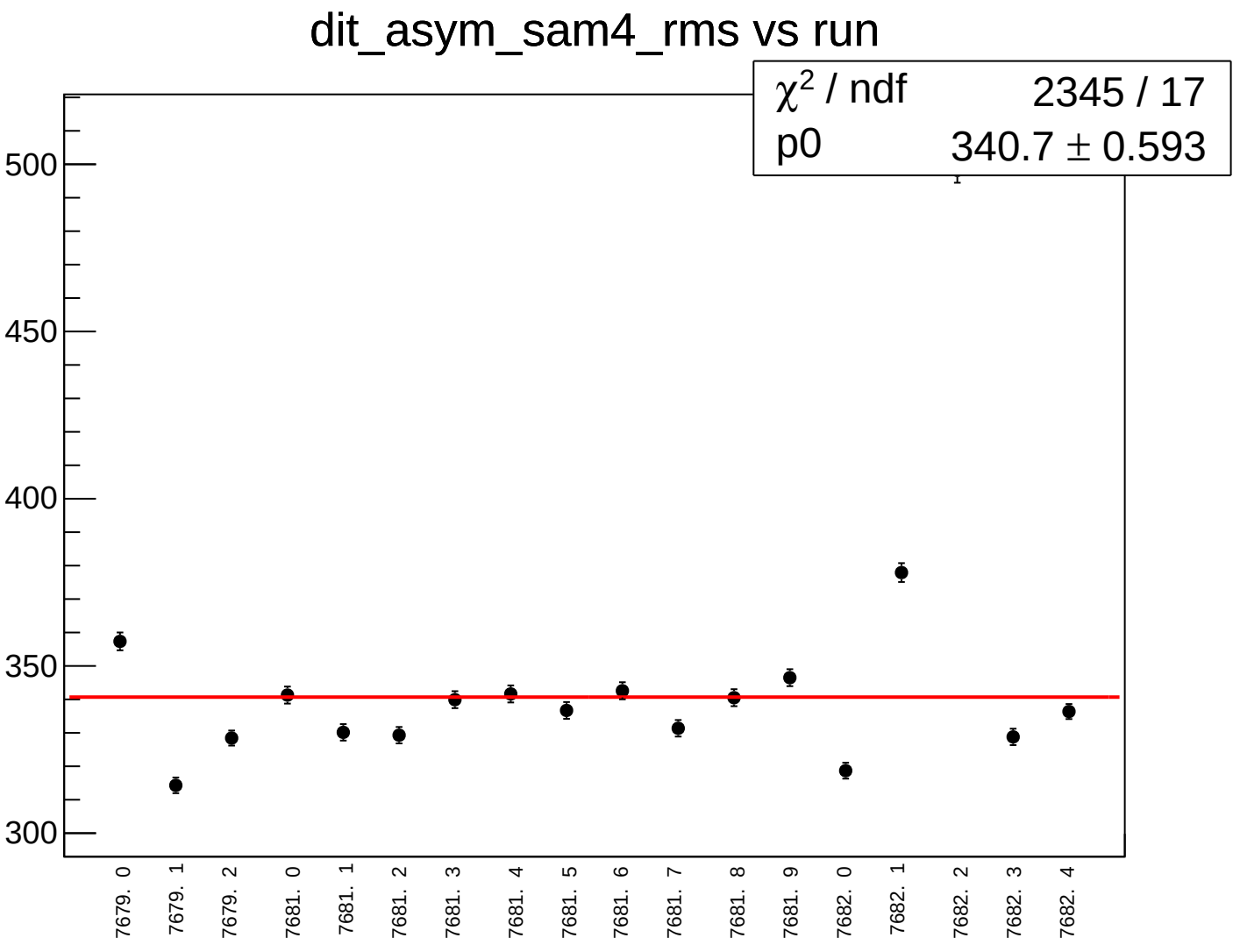

pull1D
Entries 18
Mean −0.007307
Std Dev 1.104
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

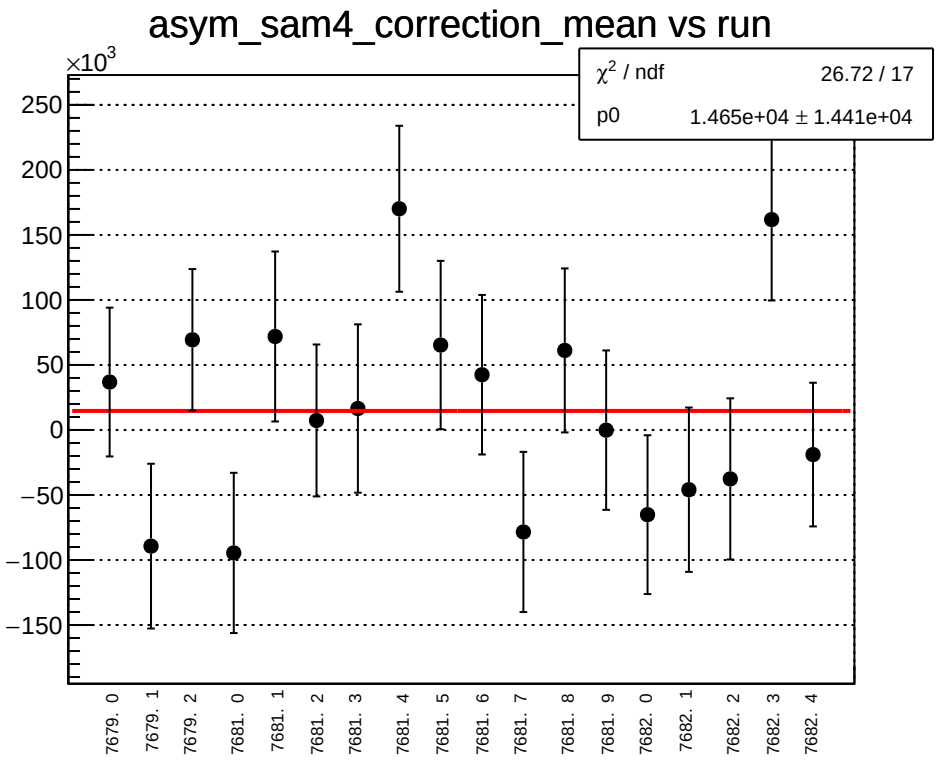

asym_sam3_rms vs run
χ² / ndf 139.9 / 17
p0 3349 ± 5.81
3450
3400
3350
3300
3250
3200
3150
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

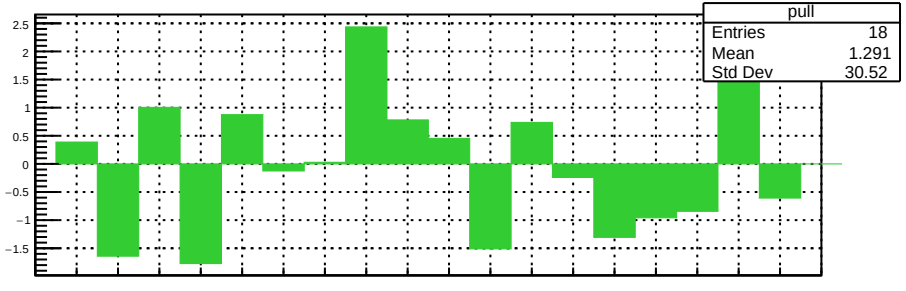

dit_asym_sam4_mean vs run
χ² / ndf 17.15 / 17
p0 −932.2 ± 838.7
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
−14000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

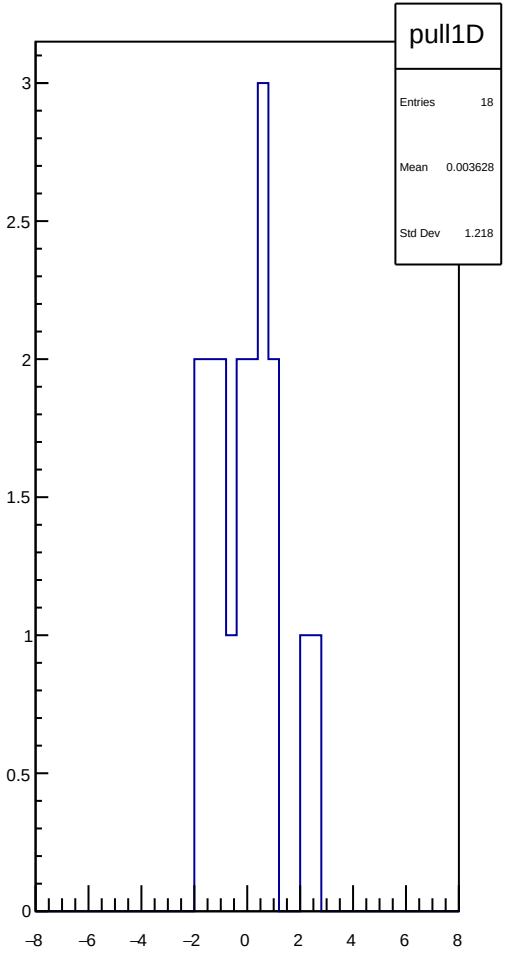

pull
Entries 18
Mean −62.75
Std Dev 69.75
1
0.5
0
−0.5
−1
−1.5
−2

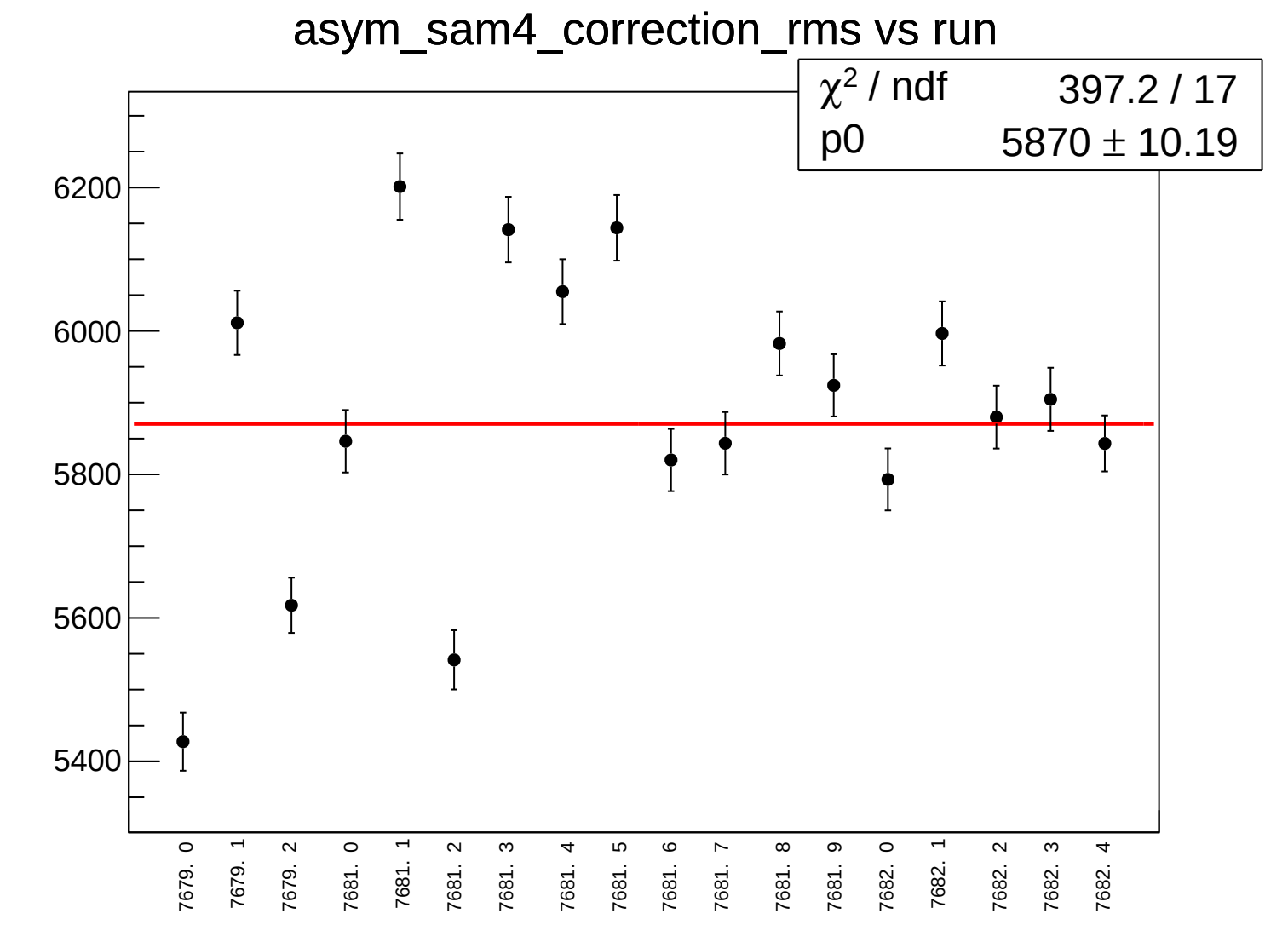

pull1D
Entries 18
Mean −0.01352
Std Dev 0.9759
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

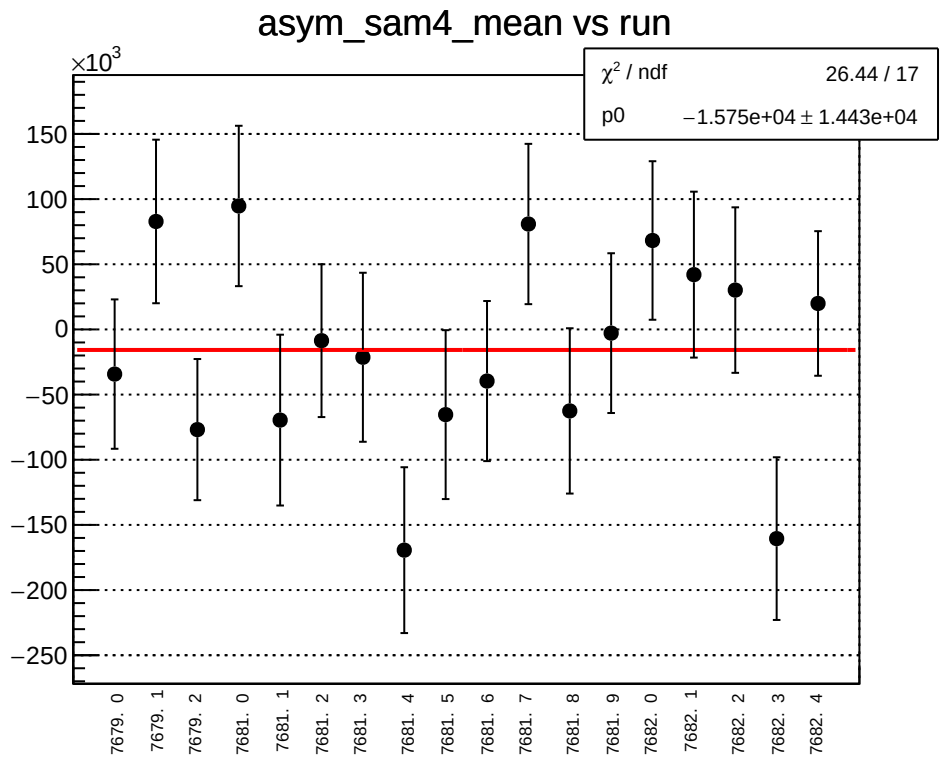

dit_asym_sam4_rms vs run
χ² / ndf 2345 / 17
p0 340.7 ± 0.593
500
450
400
350
300
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

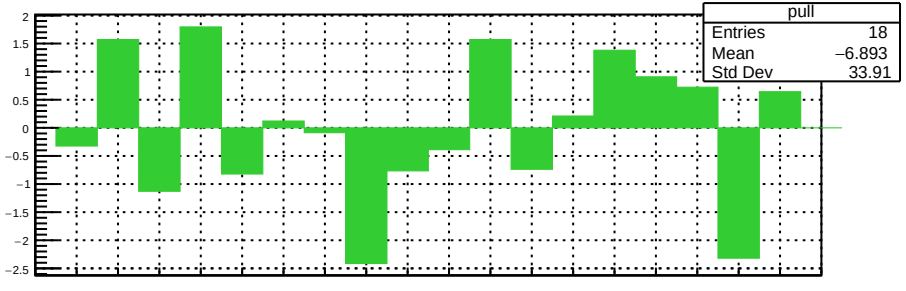

asym_sam4_correction_mean vs run
×10^3
χ² / ndf 26.72 / 17
p0 1.465e+04 ± 1.441e+04
250
200
150
100
50
0
−50
−100
−150
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

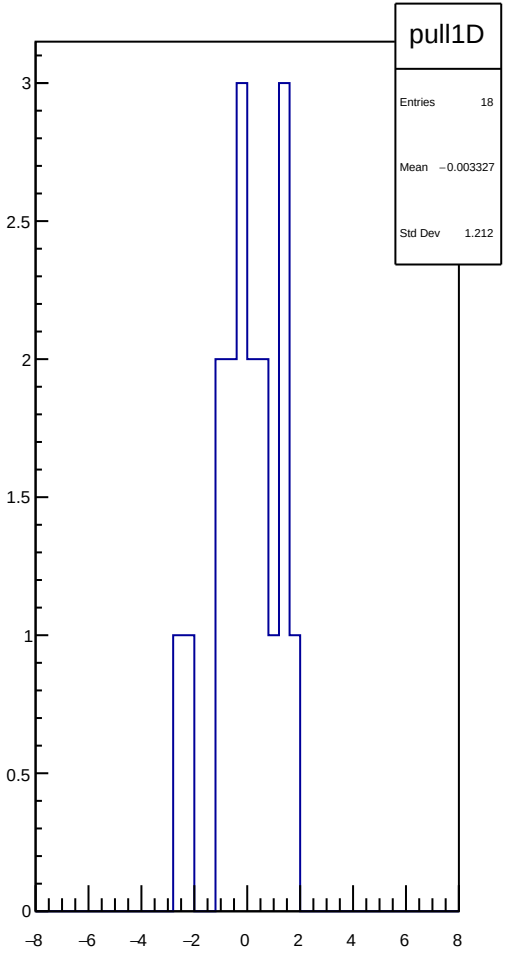

pull
Entries 18
Mean 1.291
Std Dev 30.52
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

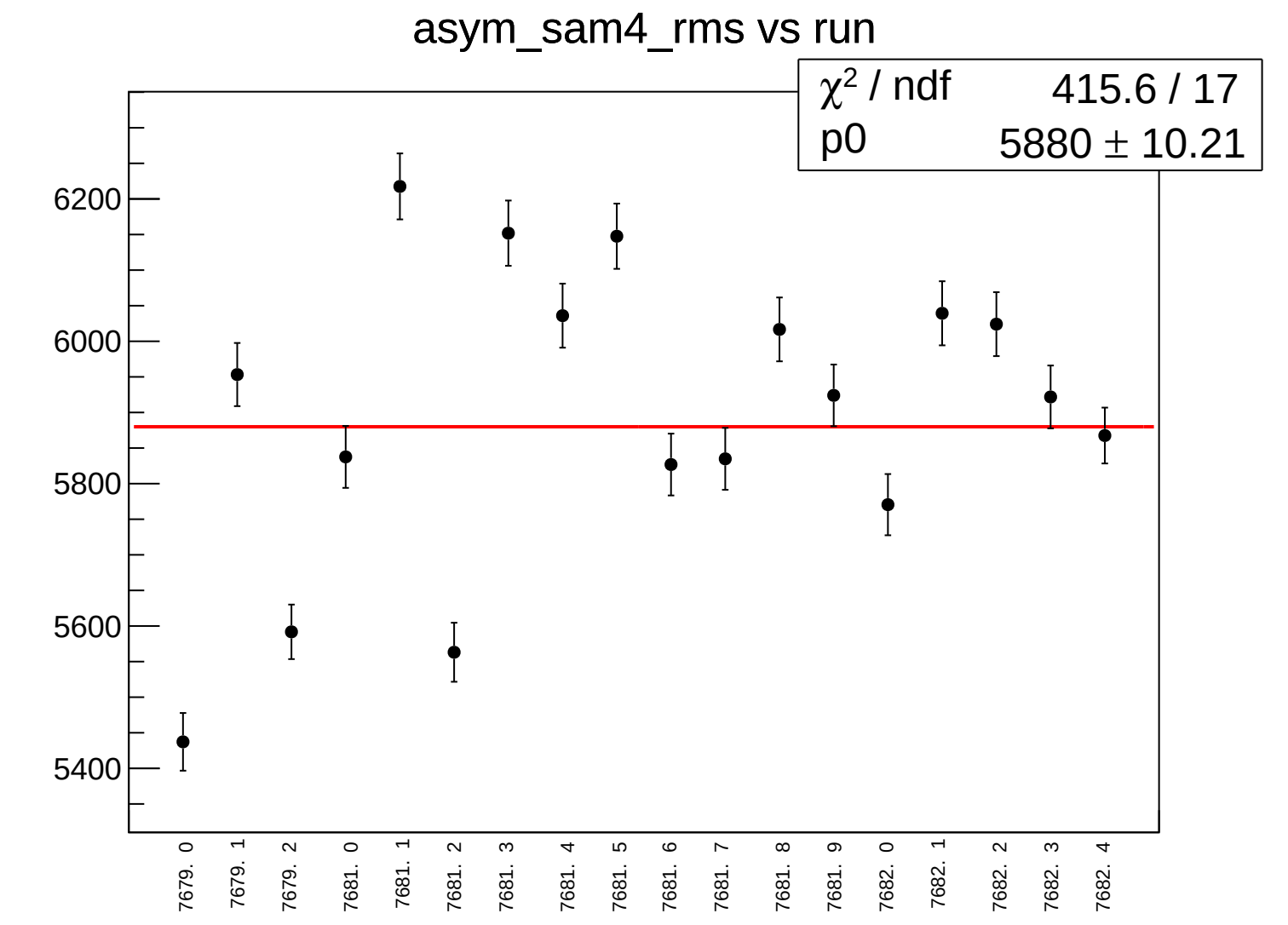

pull1D
Entries 18
Mean 0.003628
Std Dev 1.218
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

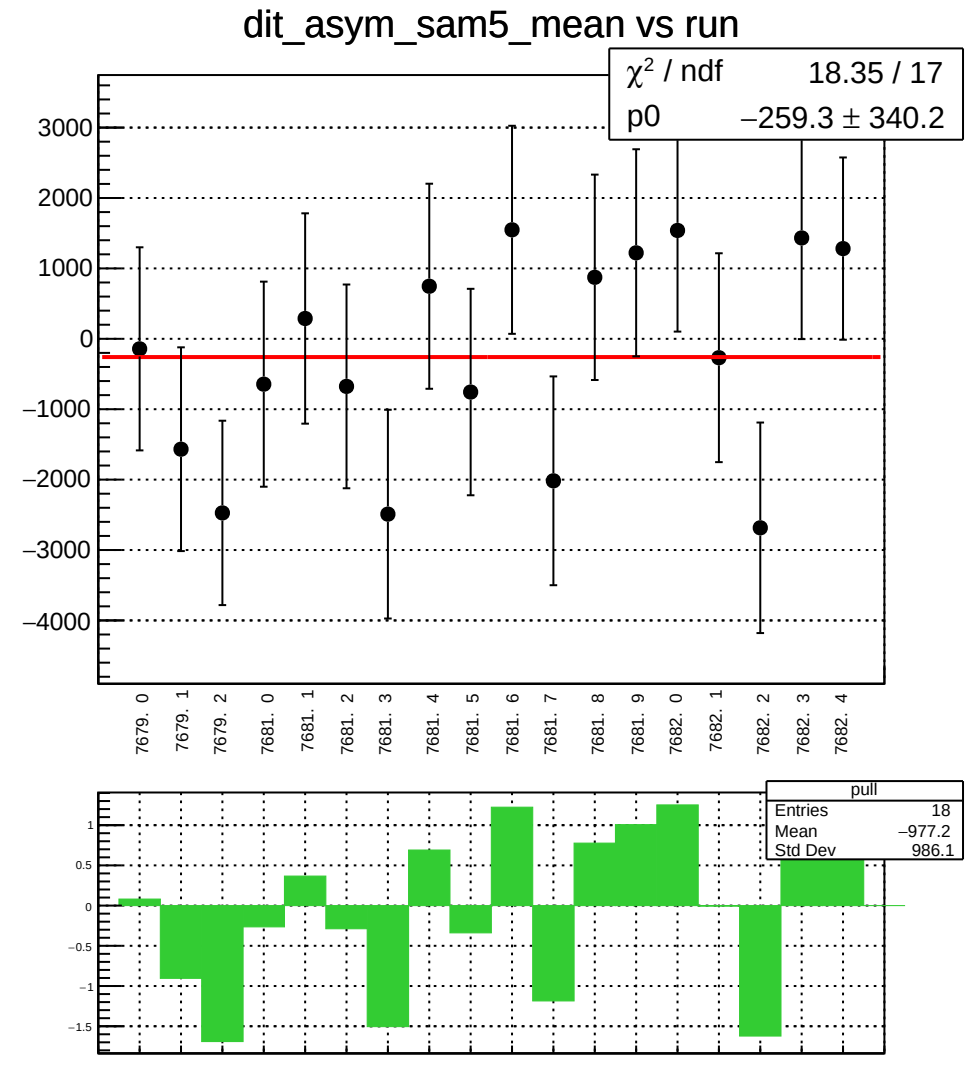

asym_sam4_correction_rms vs run
χ² / ndf 397.2 / 17
p0 5870 ± 10.19
6200
6000
5800
5600
5400
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

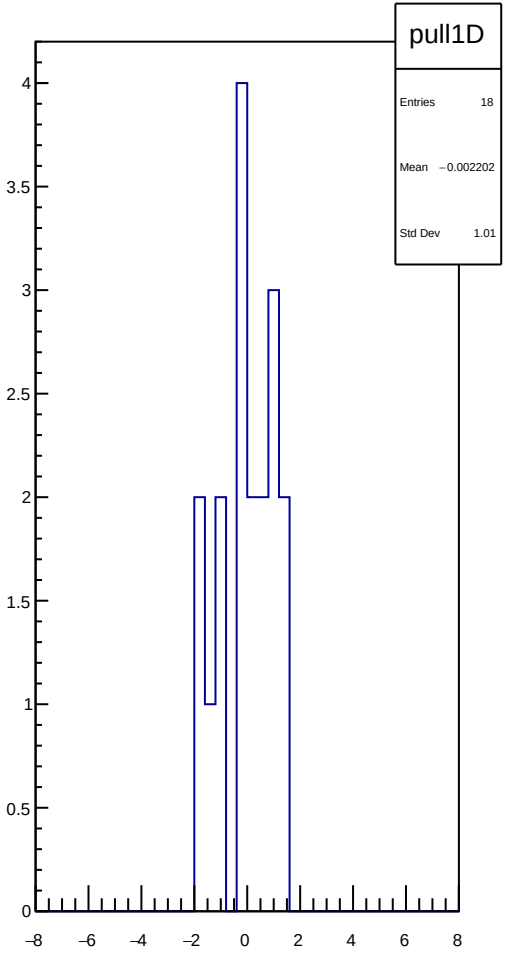

asym_sam4_mean vs run
×10^3
χ² / ndf 26.44 / 17
p0 −1.575e+04 ± 1.443e+04
150
100
50
0
−50
−100
−150
−200
−250
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

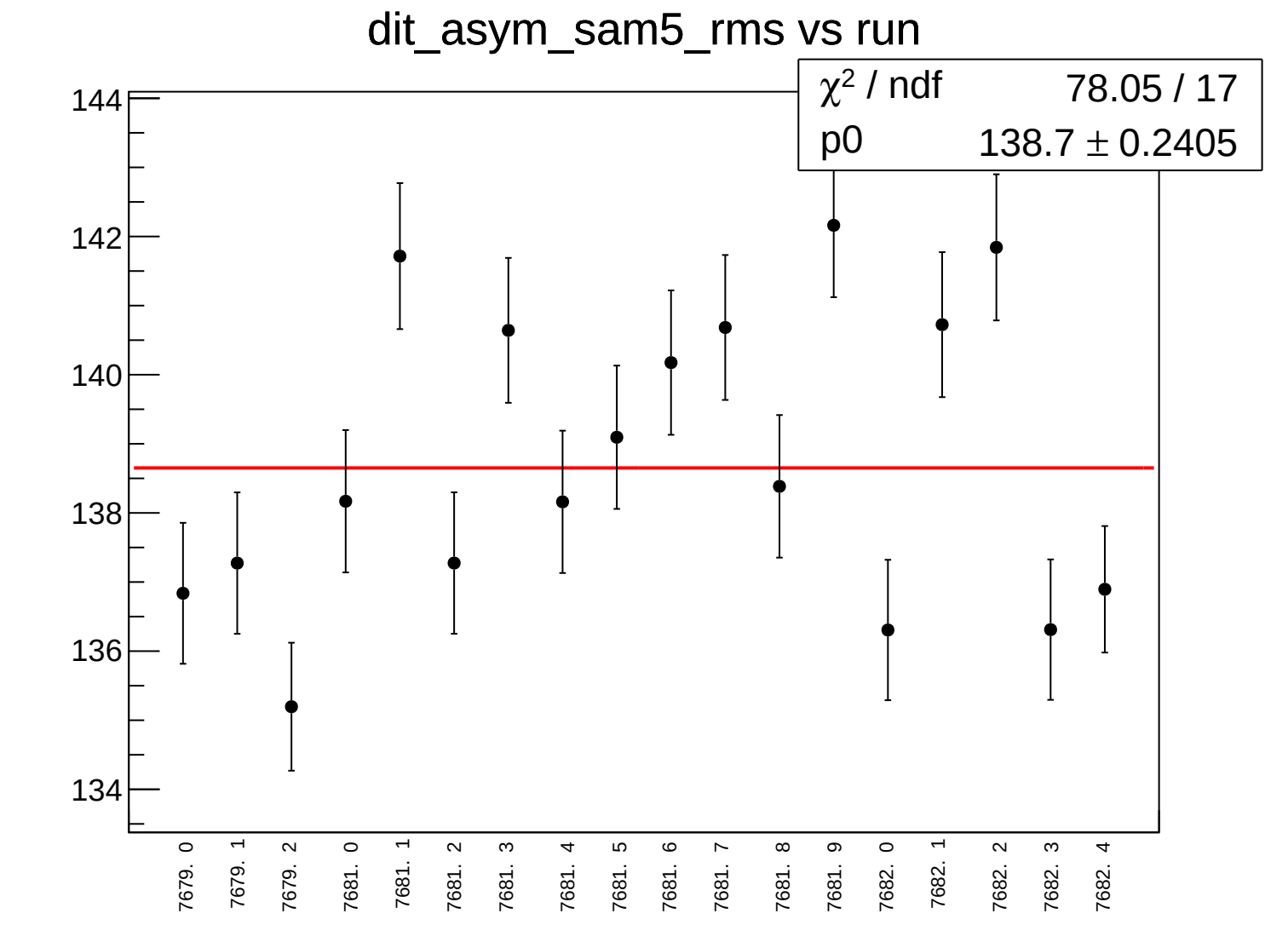

pull
Entries 18
Mean −6.893
Std Dev 33.91
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

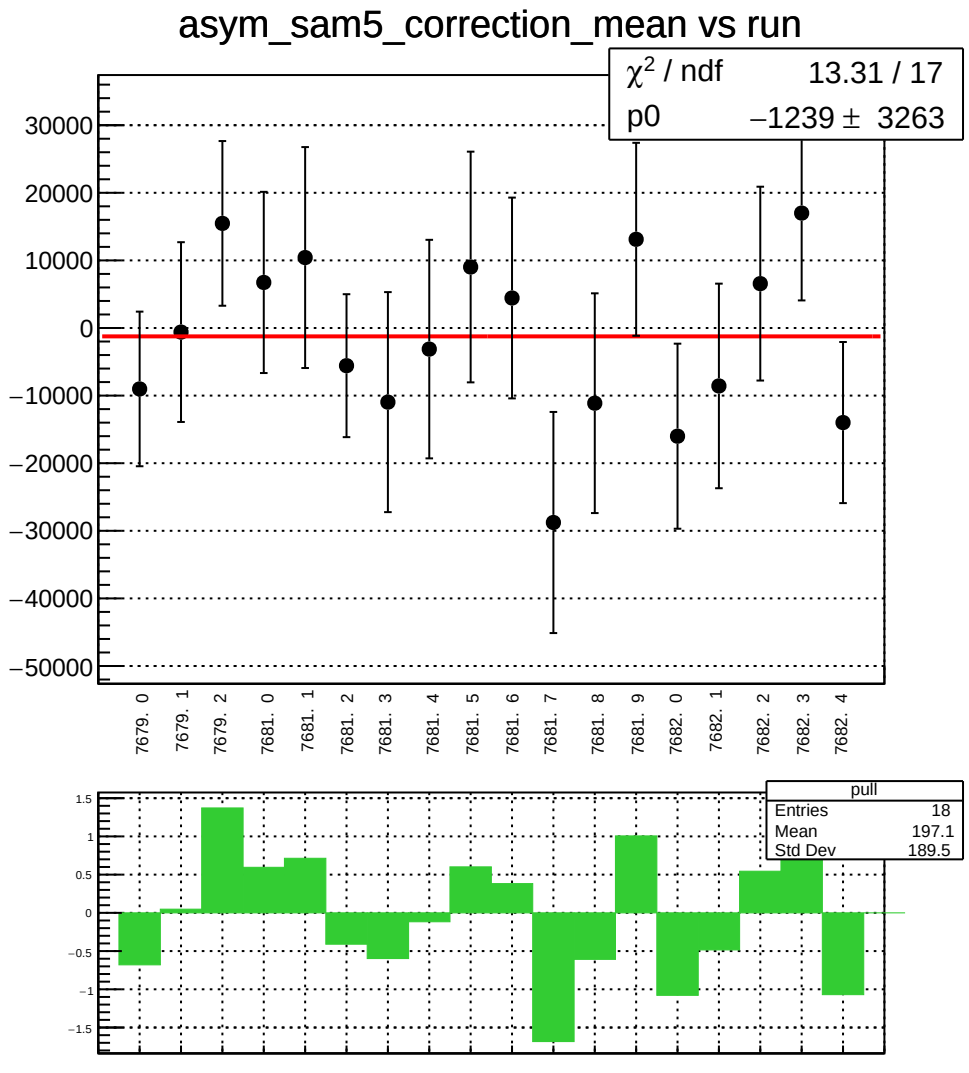

pull1D
Entries 18
Mean −0.003327
Std Dev 1.212
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

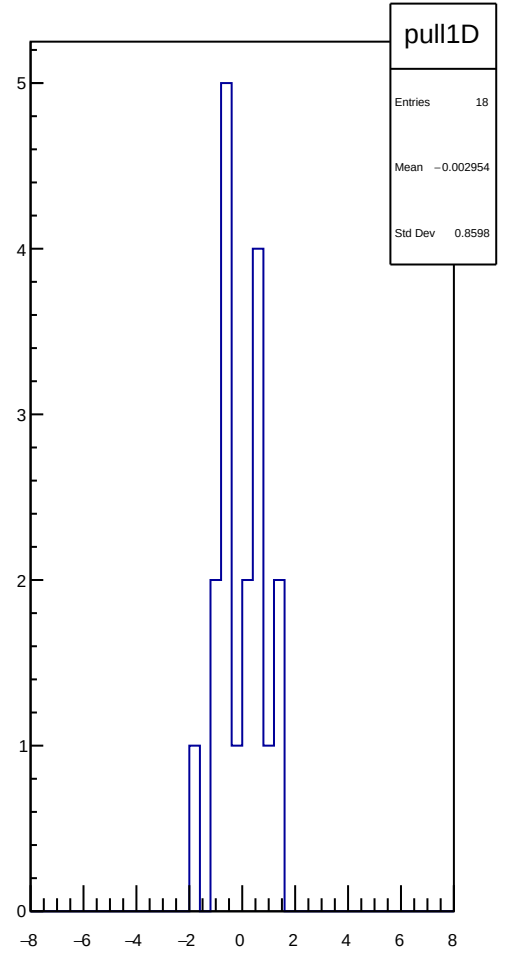

asym_sam4_rms vs run
χ² / ndf 415.6 / 17
p0 5880 ± 10.21
6200
6000
5800
5600
5400
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

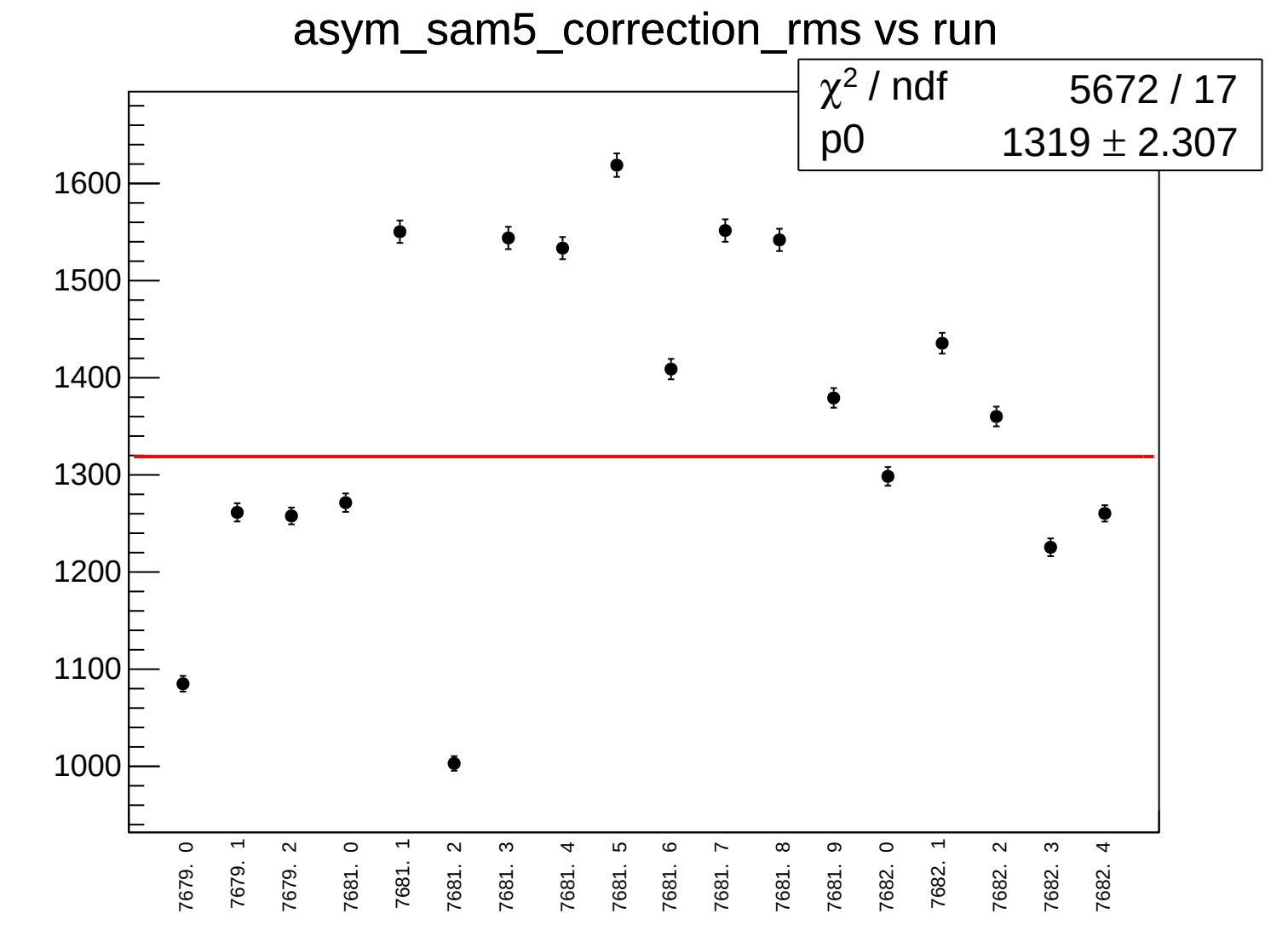

dit_asym_sam5_mean vs run
χ² / ndf 18.35 / 17
p0 −259.3 ± 340.2
3000
2000
1000
0
−1000
−2000
−3000
−4000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −977.2
Std Dev 986.1
1
0.5
0
−0.5
−1
−1.5

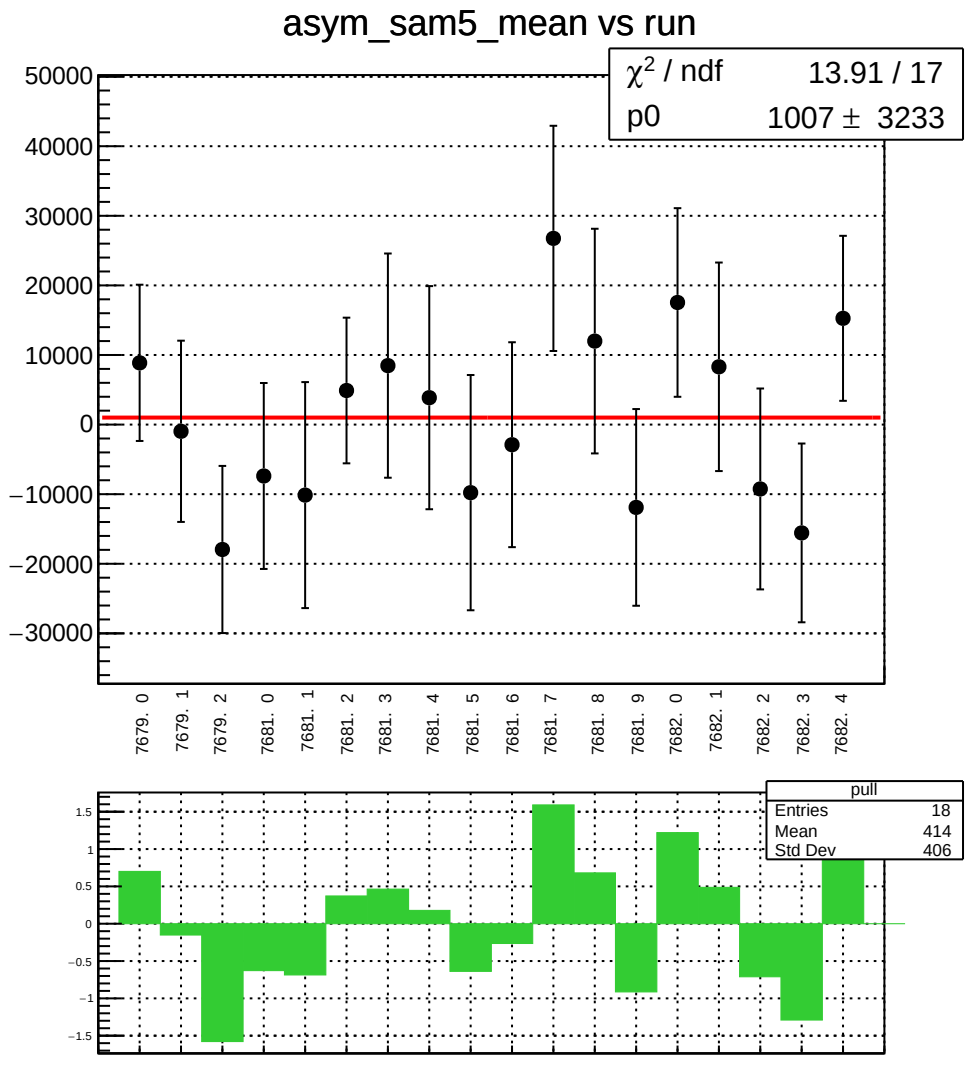

pull1D
Entries 18
Mean −0.002202
Std Dev 1.01
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

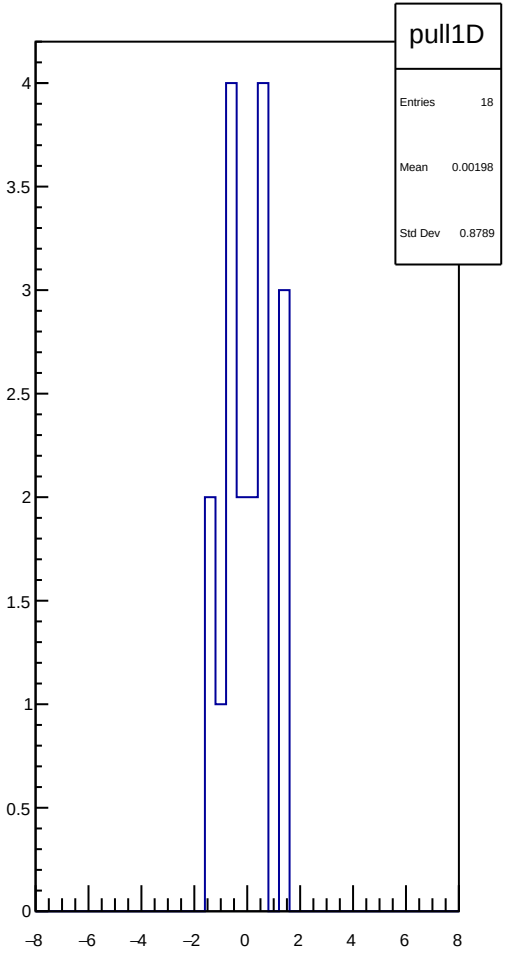

dit_asym_sam5_rms vs run
χ² / ndf 78.05 / 17
p0 138.7 ± 0.2405
144
142
140
138
136
134
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

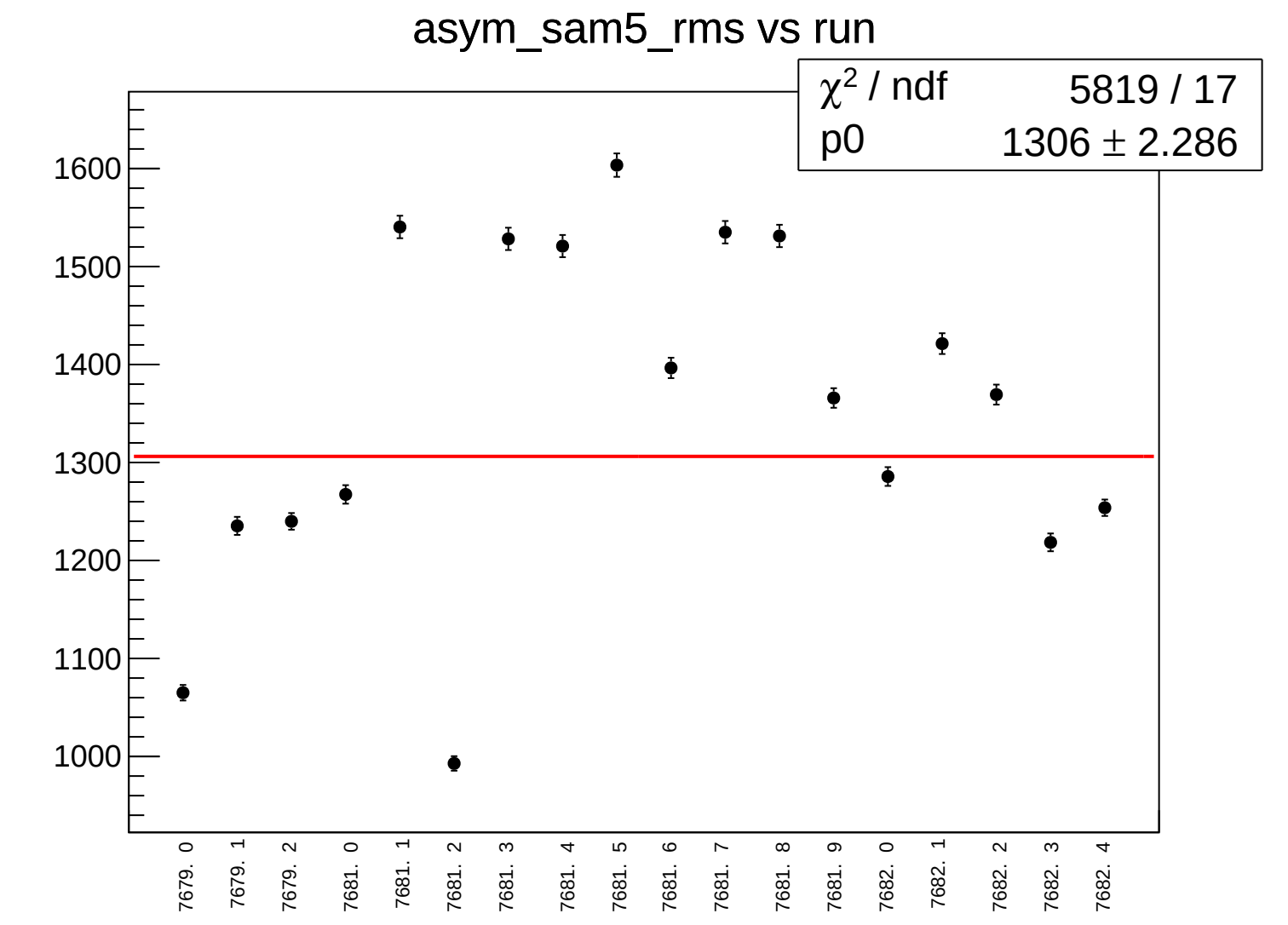

asym_sam5_correction_mean vs run
χ² / ndf 13.31 / 17
p0 −1239 ± 3263
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 197.1
Std Dev 189.5
1.5
1
0.5
0
−0.5
−1
−1.5

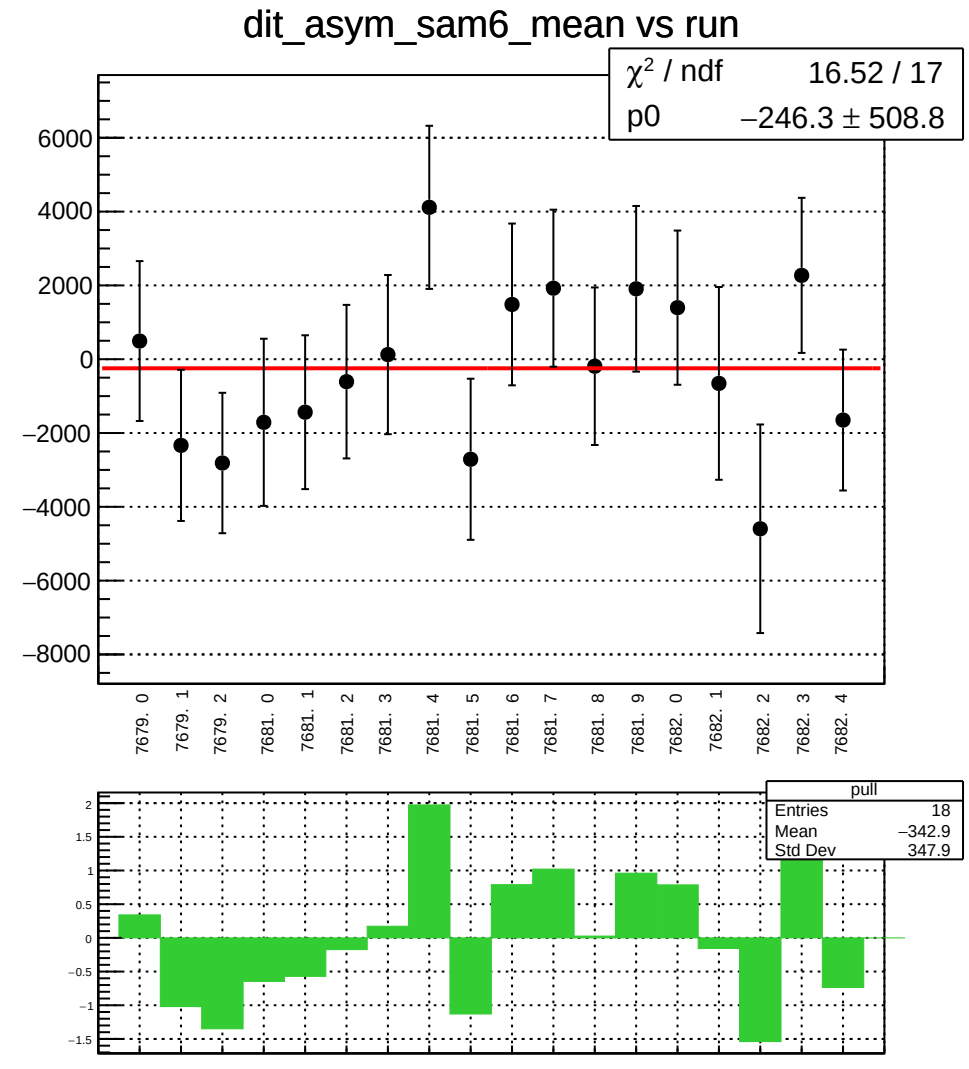

pull1D
Entries 18
Mean −0.002954
Std Dev 0.8598
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

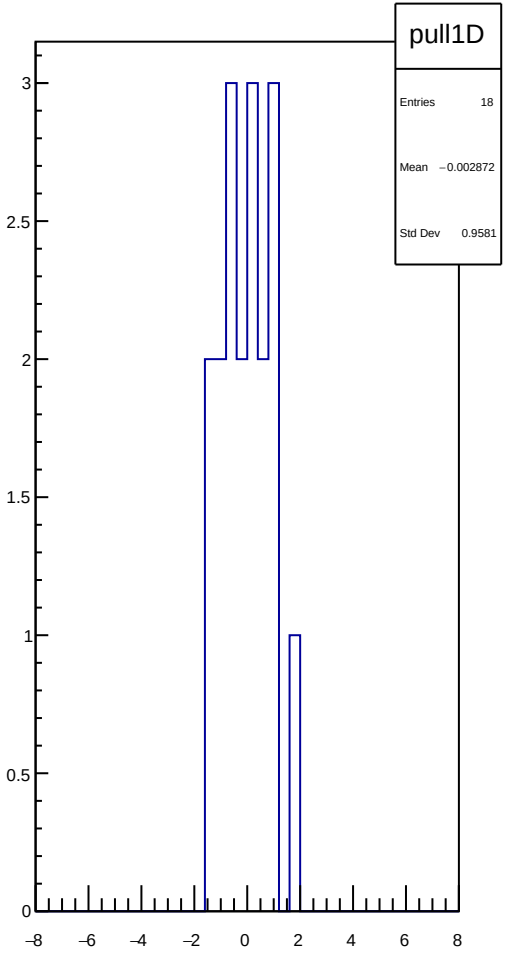

asym_sam5_correction_rms vs run
χ² / ndf 5672 / 17
p0 1319 ± 2.307
1600
1500
1400
1300
1200
1100
1000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

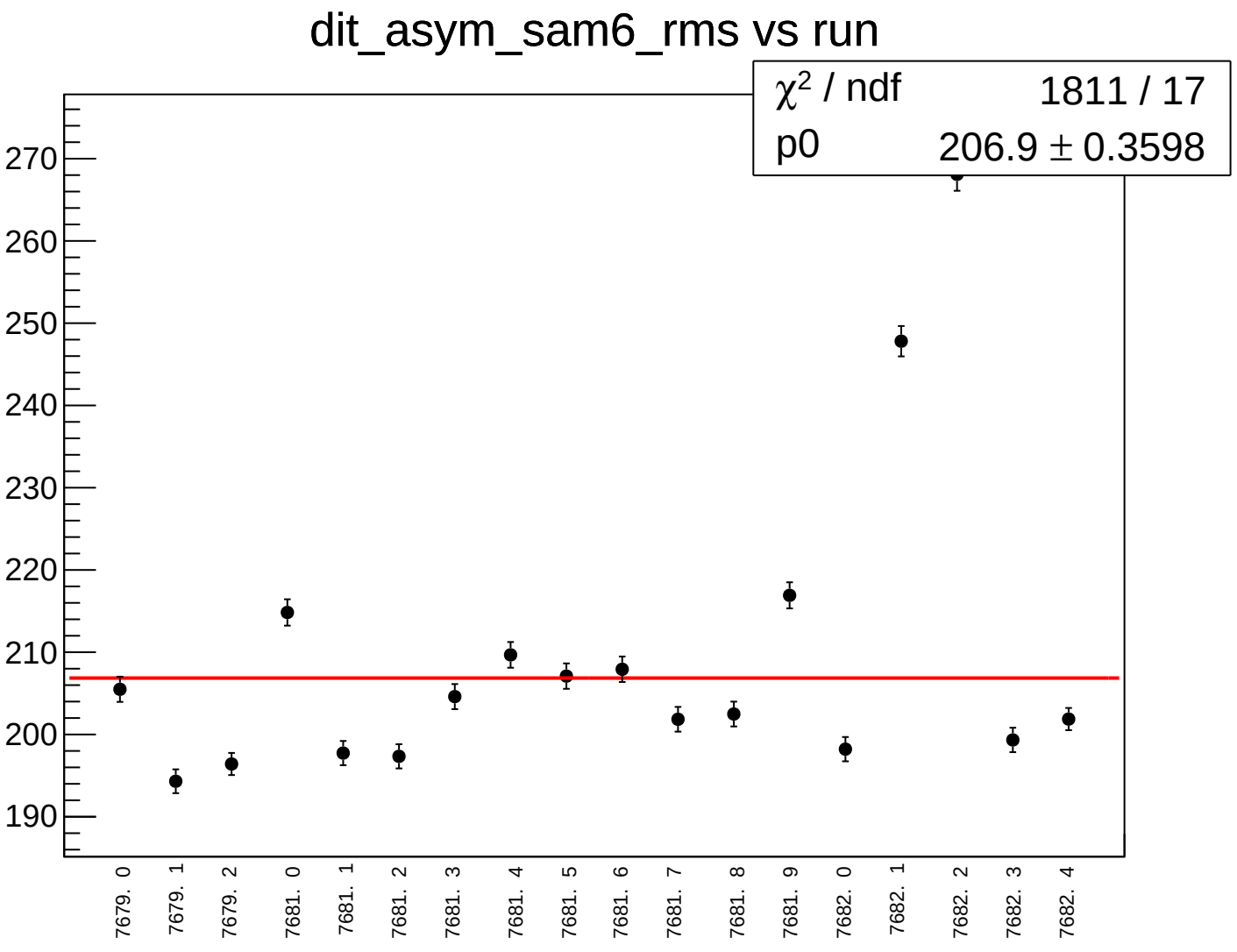

asym_sam5_mean vs run
χ² / ndf 13.91 / 17
p0 1007 ± 3233
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 414
Std Dev 406
1.5
1
0.5
0
−0.5
−1
−1.5

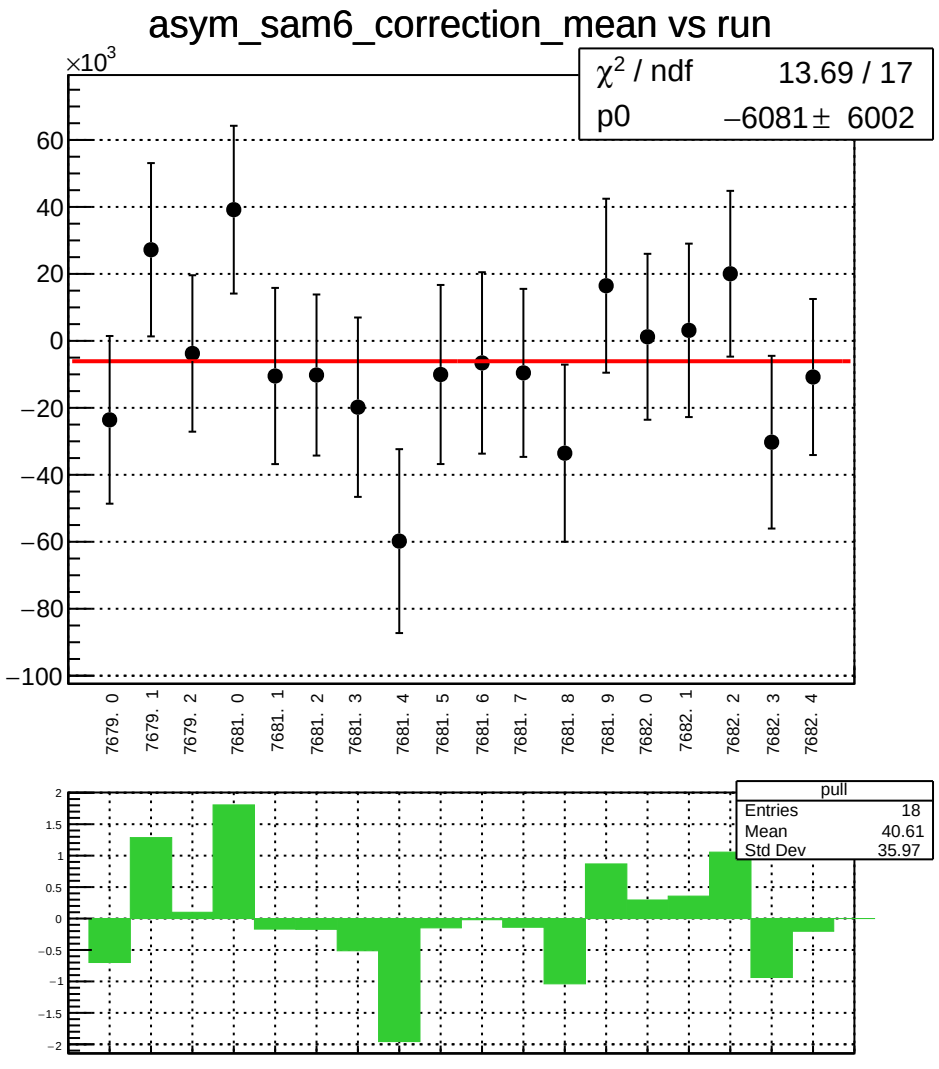

pull1D
Entries 18
Mean 0.00198
Std Dev 0.8789
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

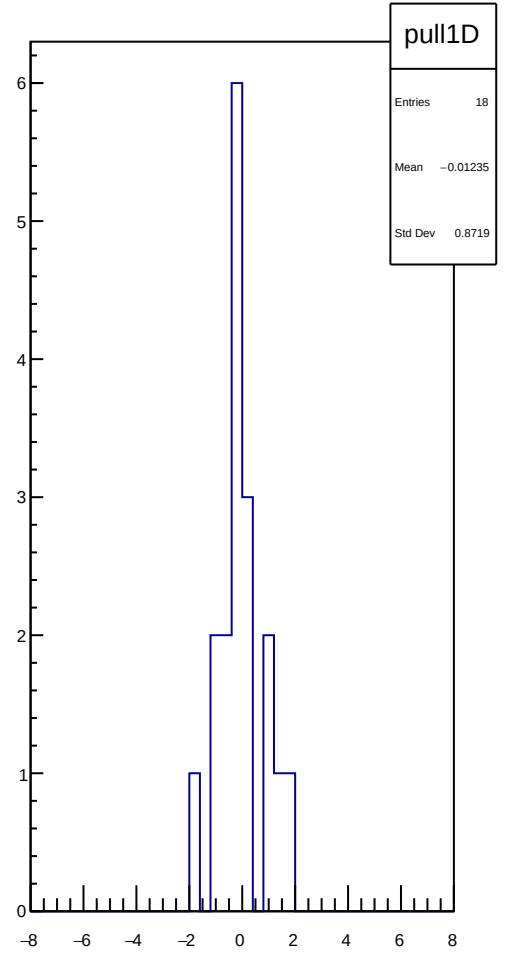

asym_sam5_rms vs run
χ² / ndf 5819 / 17
p0 1306 ± 2.286
1600
1500
1400
1300
1200
1100
1000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

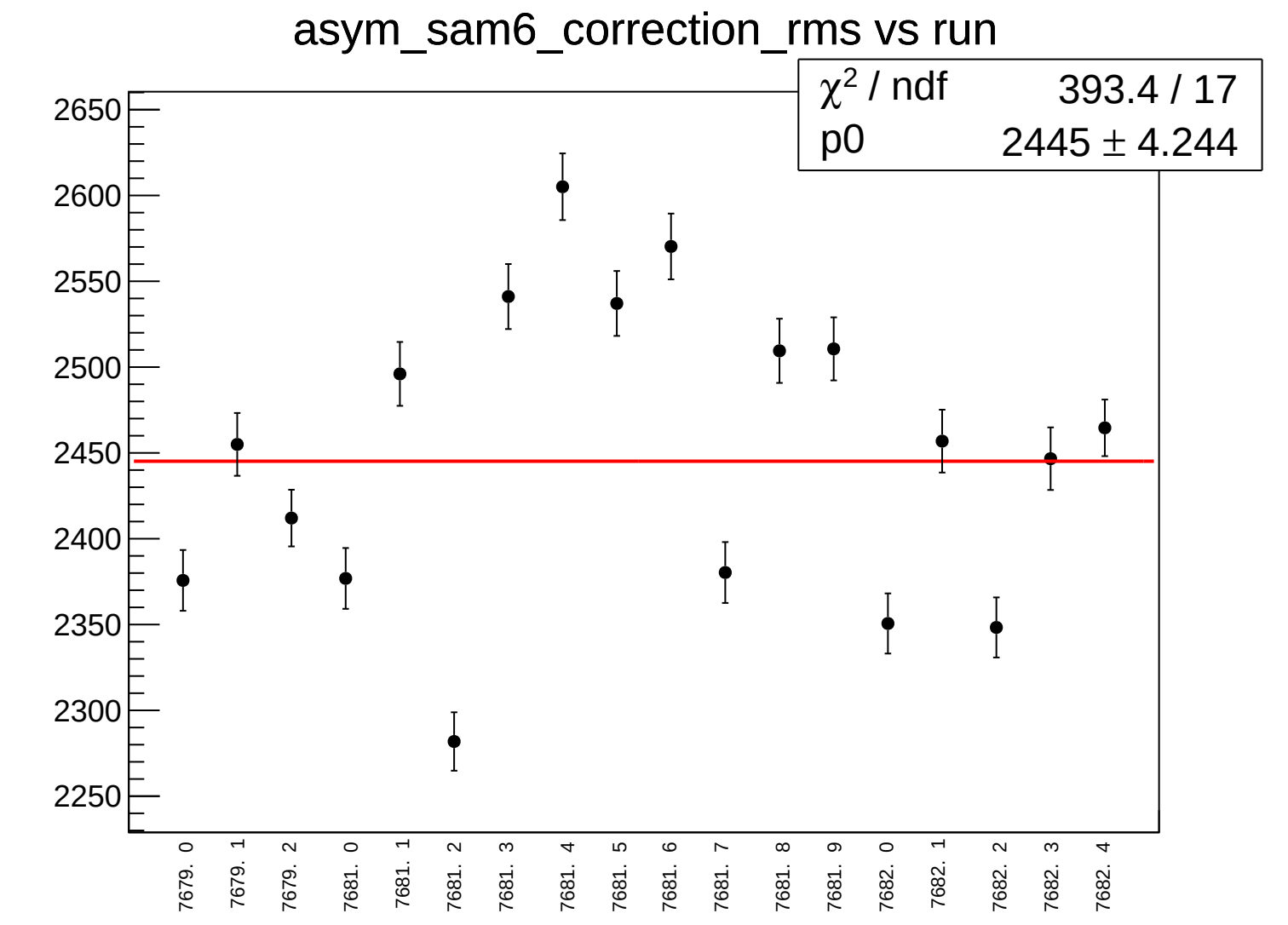

dit_asym_sam6_mean vs run
χ² / ndf 16.52 / 17
p0 −246.3 ± 508.8
6000
4000
2000
0
−2000
−4000
−6000
−8000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −342.9
Std Dev 347.9
2
1.5
1
0.5
0
−0.5
−1
−1.5

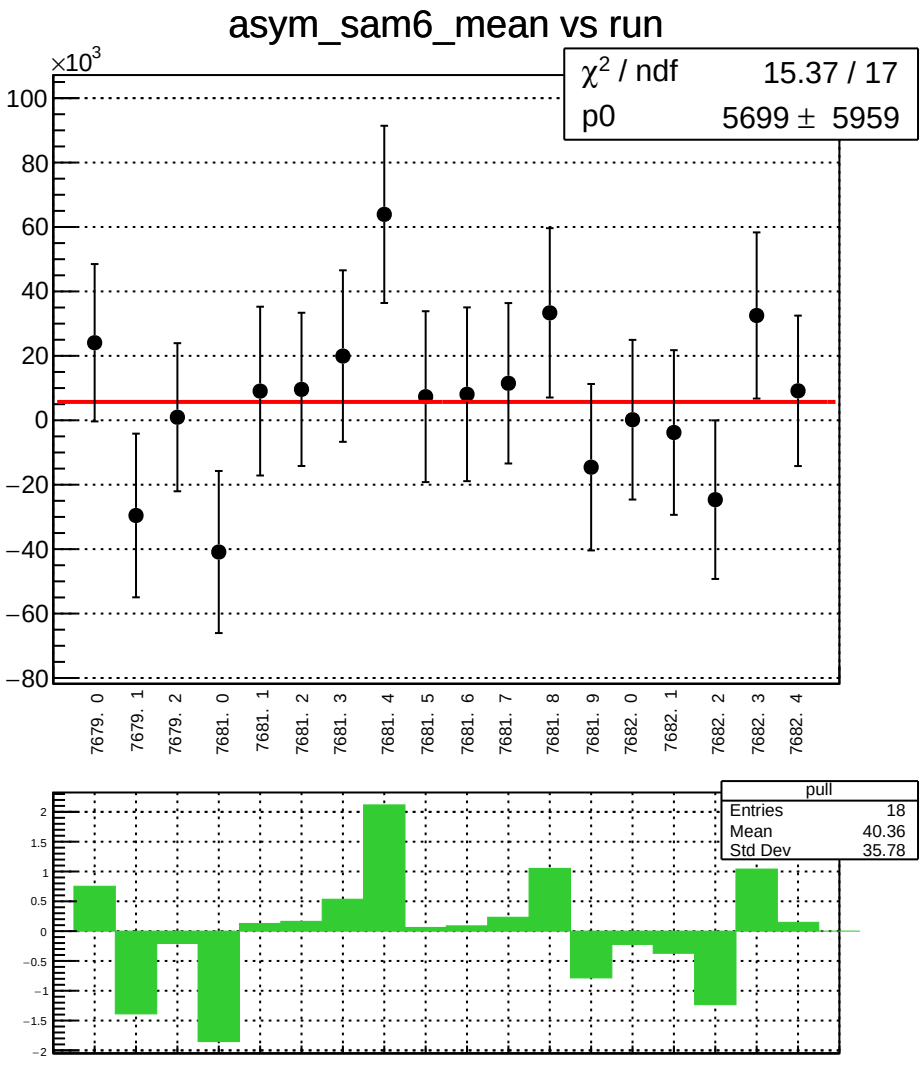

pull1D
Entries 18
Mean −0.002872
Std Dev 0.9581
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

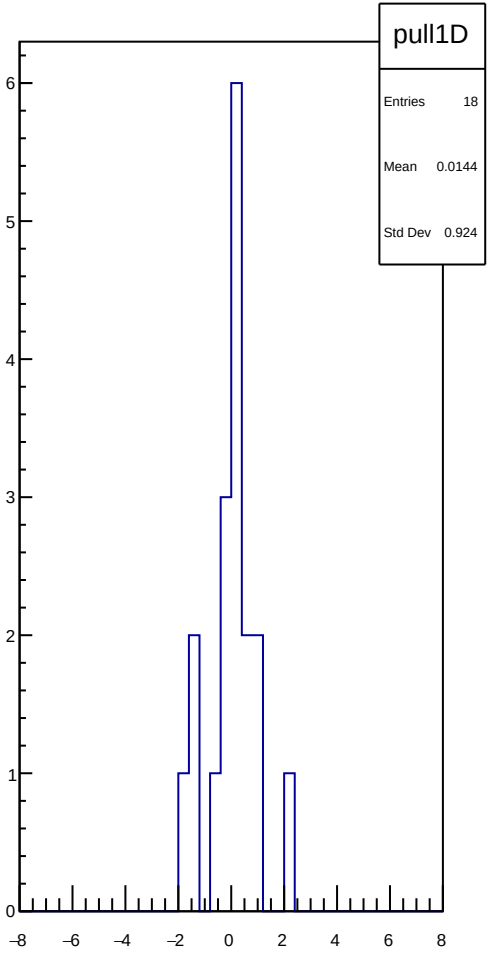

dit_asym_sam6_rms vs run
χ² / ndf 1811 / 17
p0 206.9 ± 0.3598
270
260
250
240
230
220
210
200
190
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

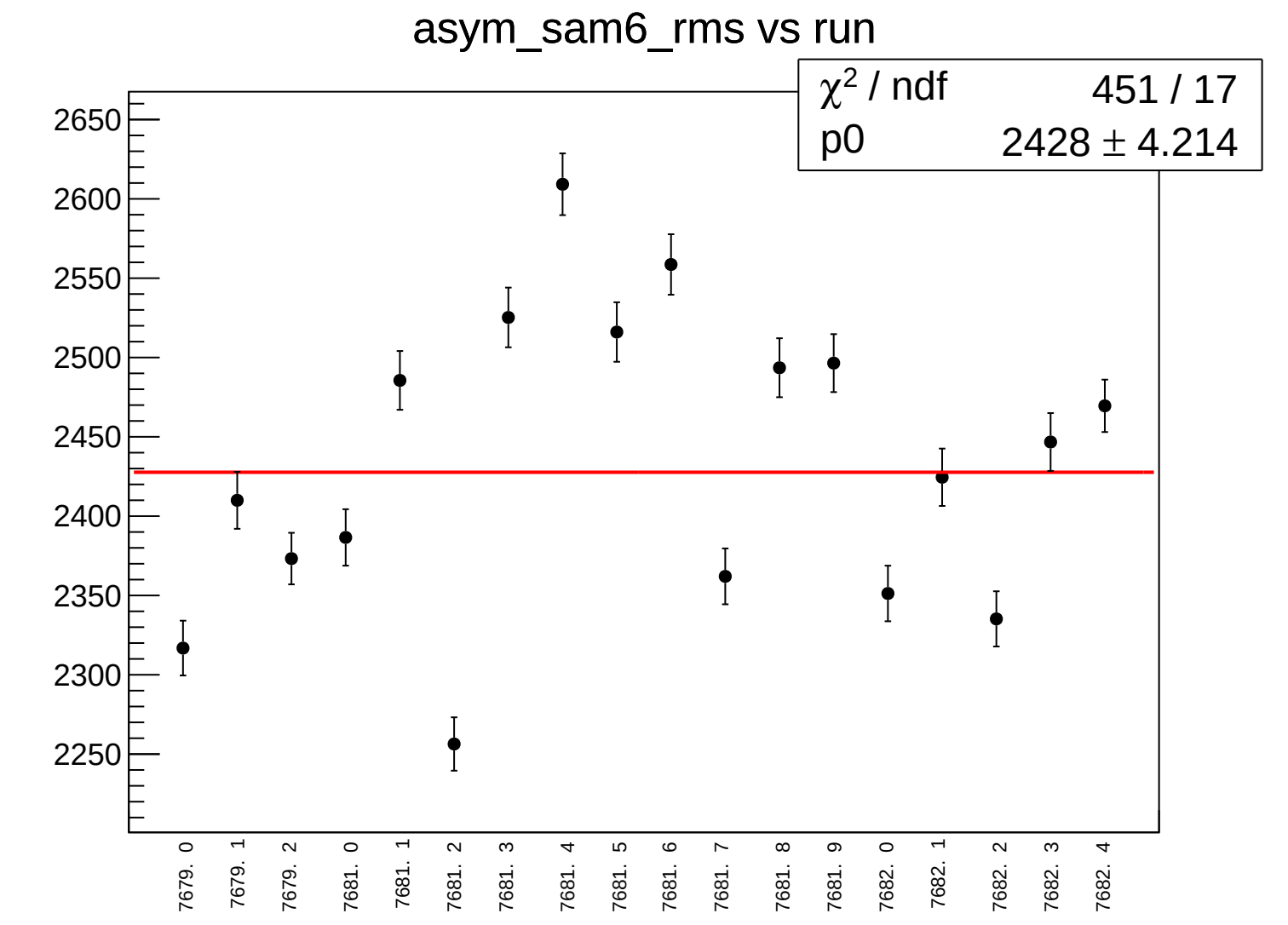

asym_sam6_correction_mean vs run
×10^3
χ² / ndf 13.69 / 17
p0 −6081 ± 6002
60
40
20
0
−20
−40
−60
−80
−100
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 40.61
Std Dev 35.97
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

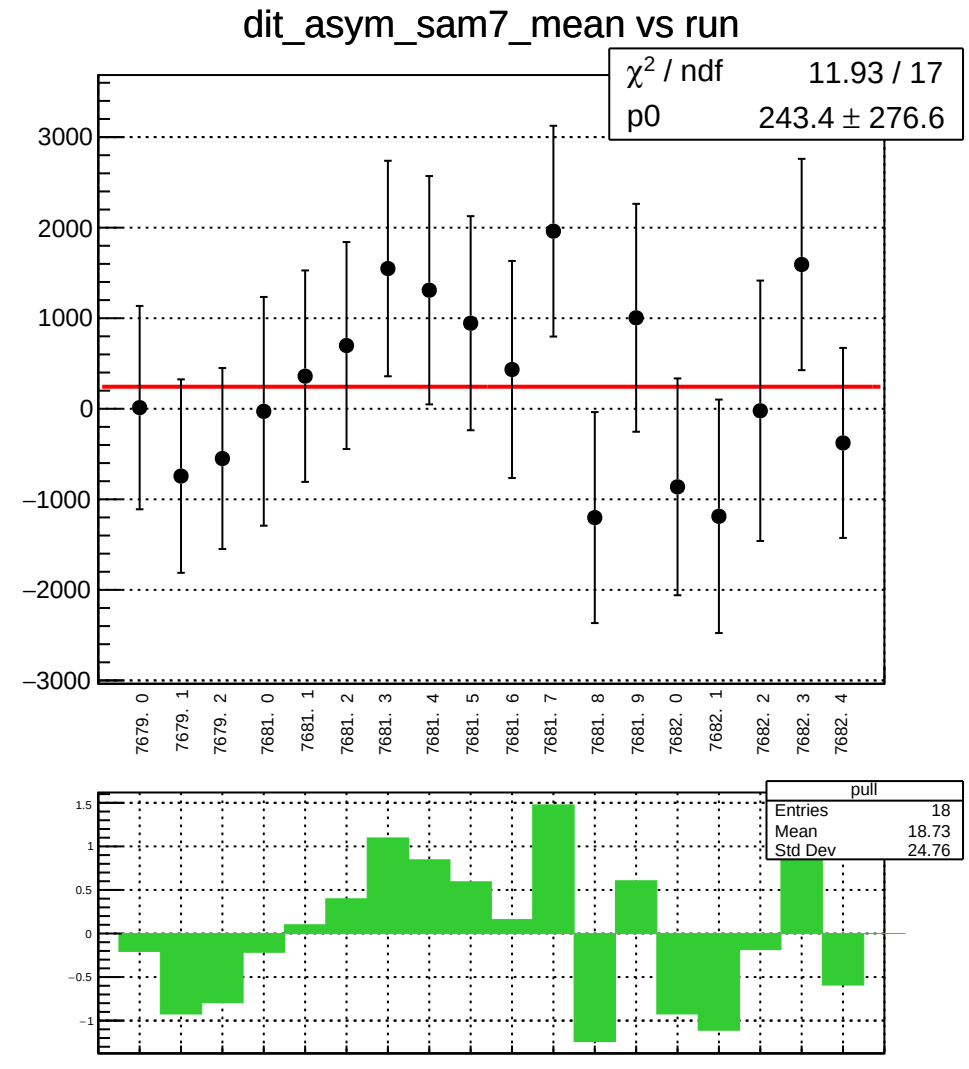

pull1D
Entries 18
Mean −0.01235
Std Dev 0.8719
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

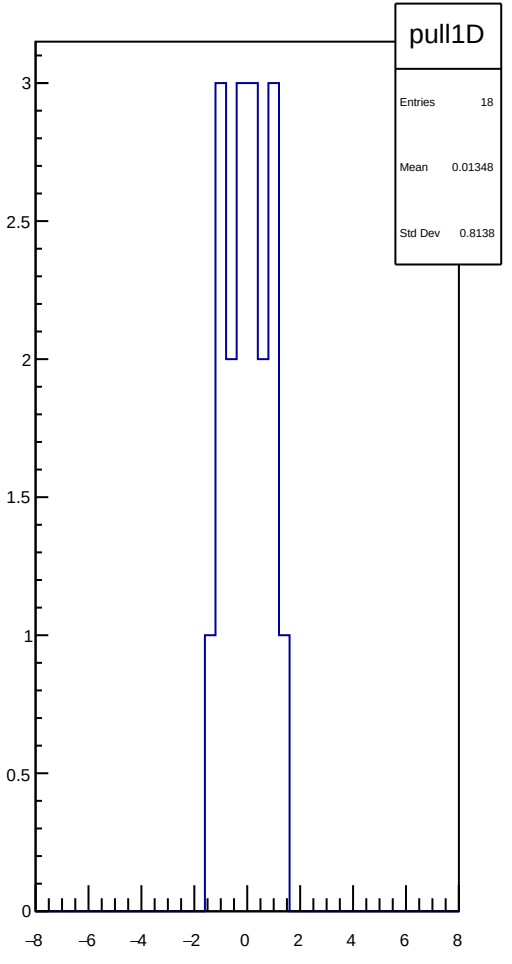

asym_sam6_correction_rms vs run
χ² / ndf 393.4 / 17
p0 2445 ± 4.244
2650
2600
2550
2500
2450
2400
2350
2300
2250
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

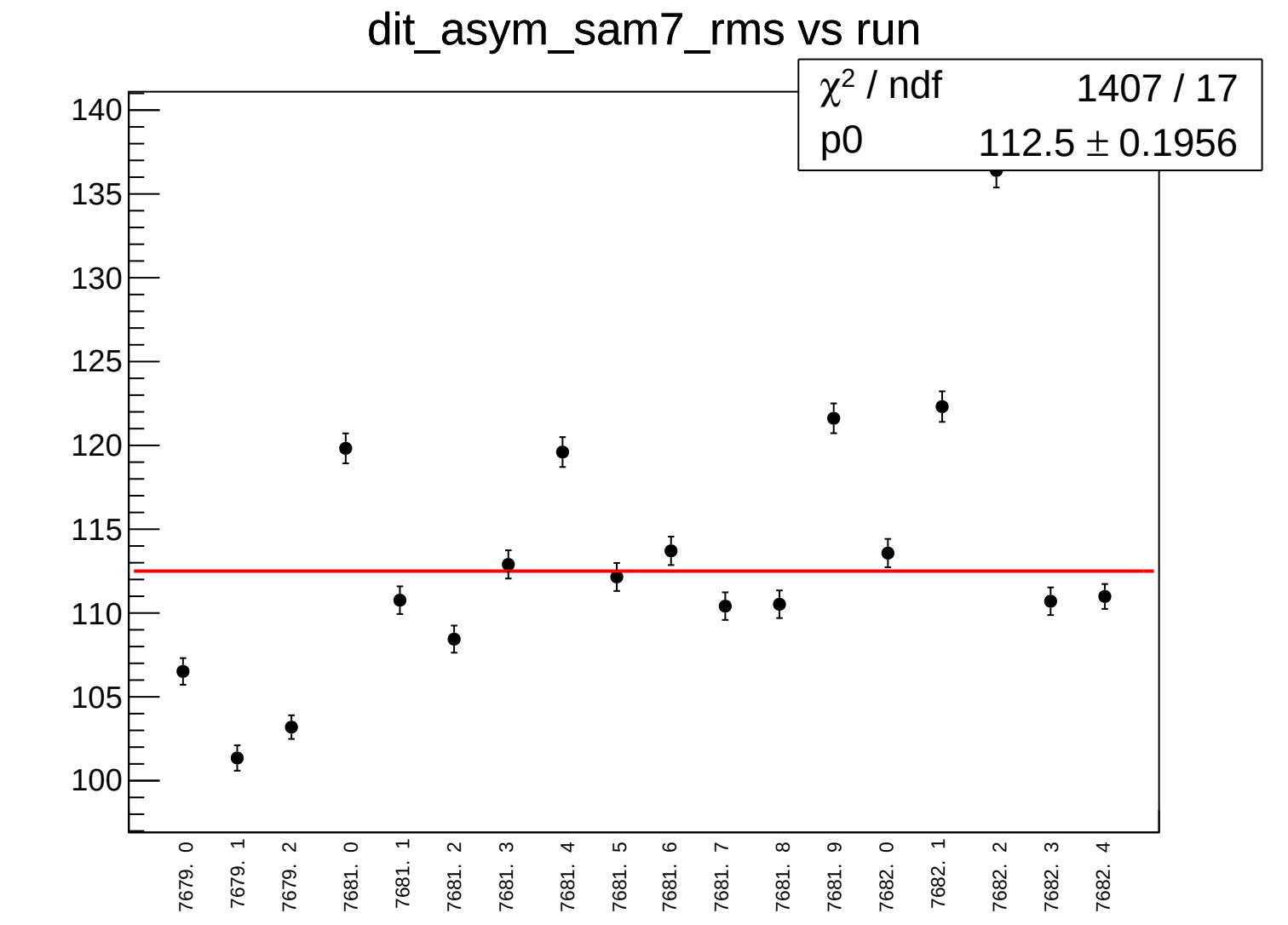

asym_sam6_mean vs run
×10^3
χ^2 / ndf 15.37 / 17
p0 5699 ± 5959
100
80
60
40
20
0
−20
−40
−60
−80
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 40.36
Std Dev 35.78
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

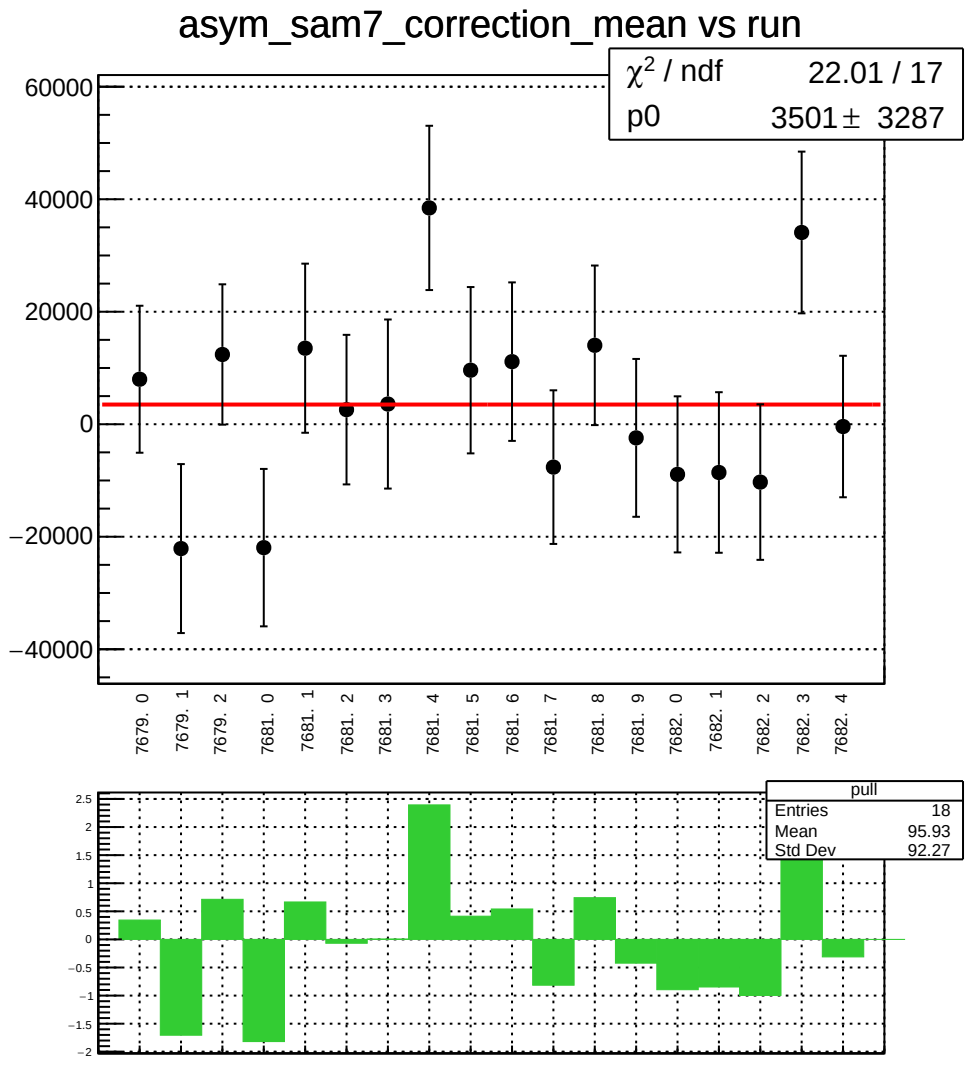

pull1D
Entries 18
Mean 0.0144
Std Dev 0.924
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

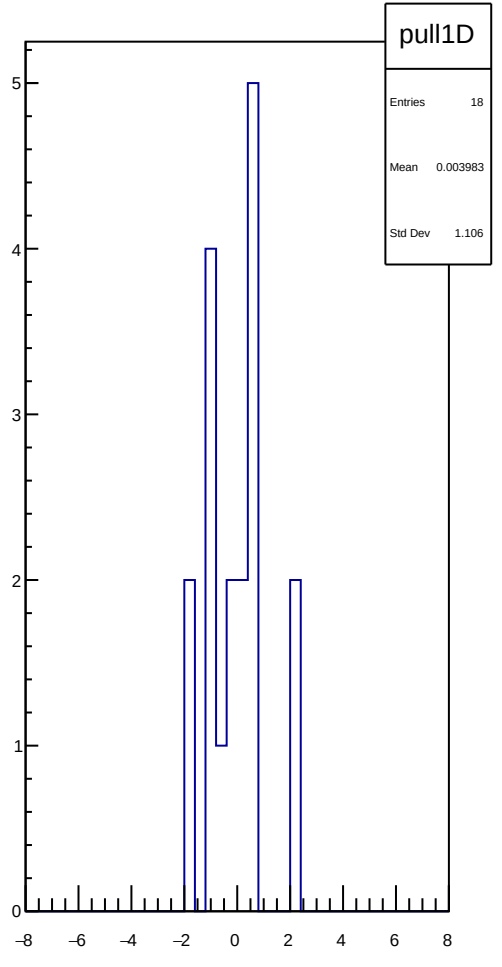

asym_sam6_rms vs run
χ² / ndf 451 / 17
p0 2428 ± 4.214
2650
2600
2550
2500
2450
2400
2350
2300
2250
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

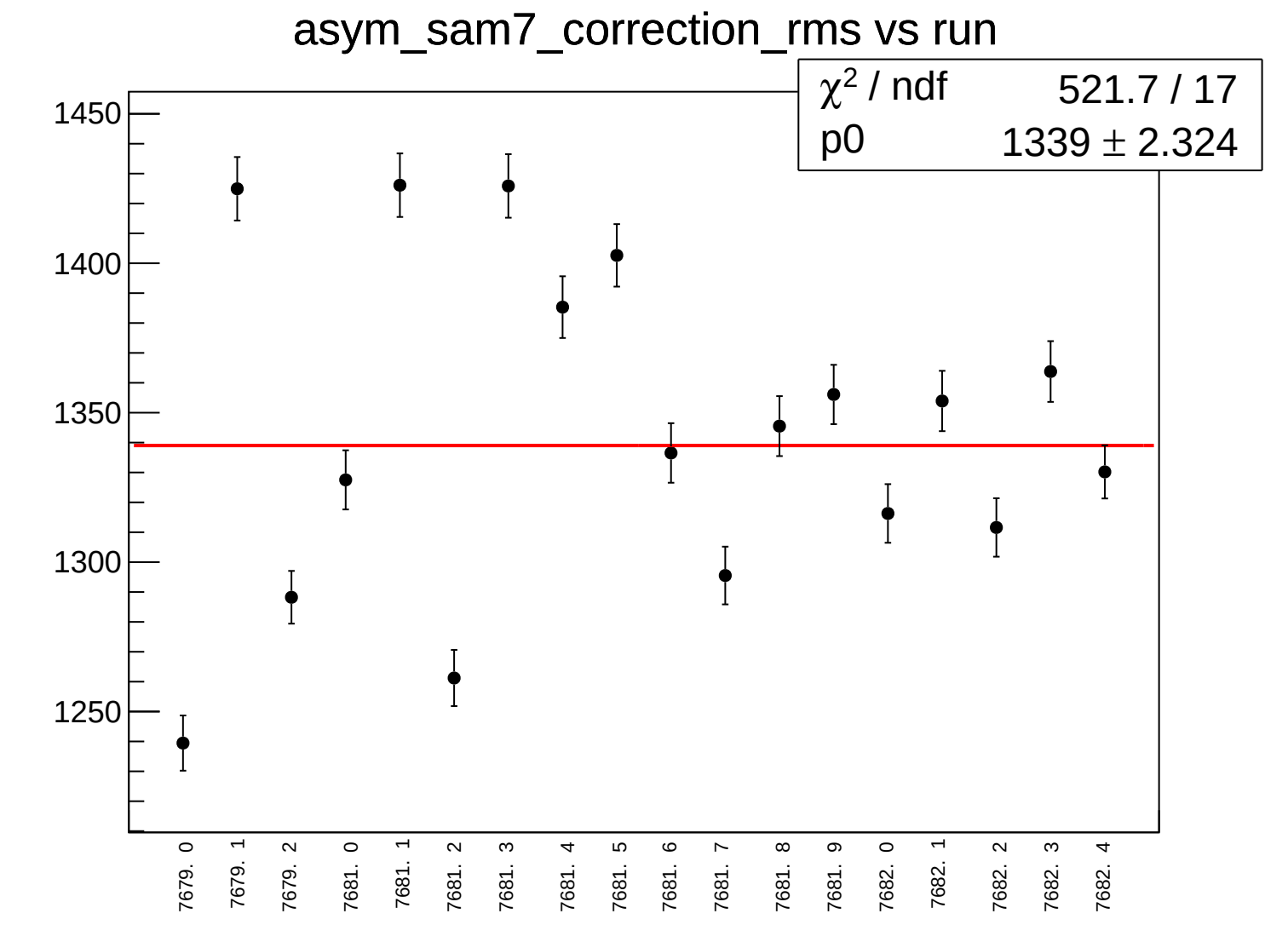

dit_asym_sam7_mean vs run
χ² / ndf 11.93 / 17
p0 243.4 ± 276.6
3000
2000
1000
0
−1000
−2000
−3000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 18.73
Std Dev 24.76
1.5
1
0.5
0
−0.5
−1

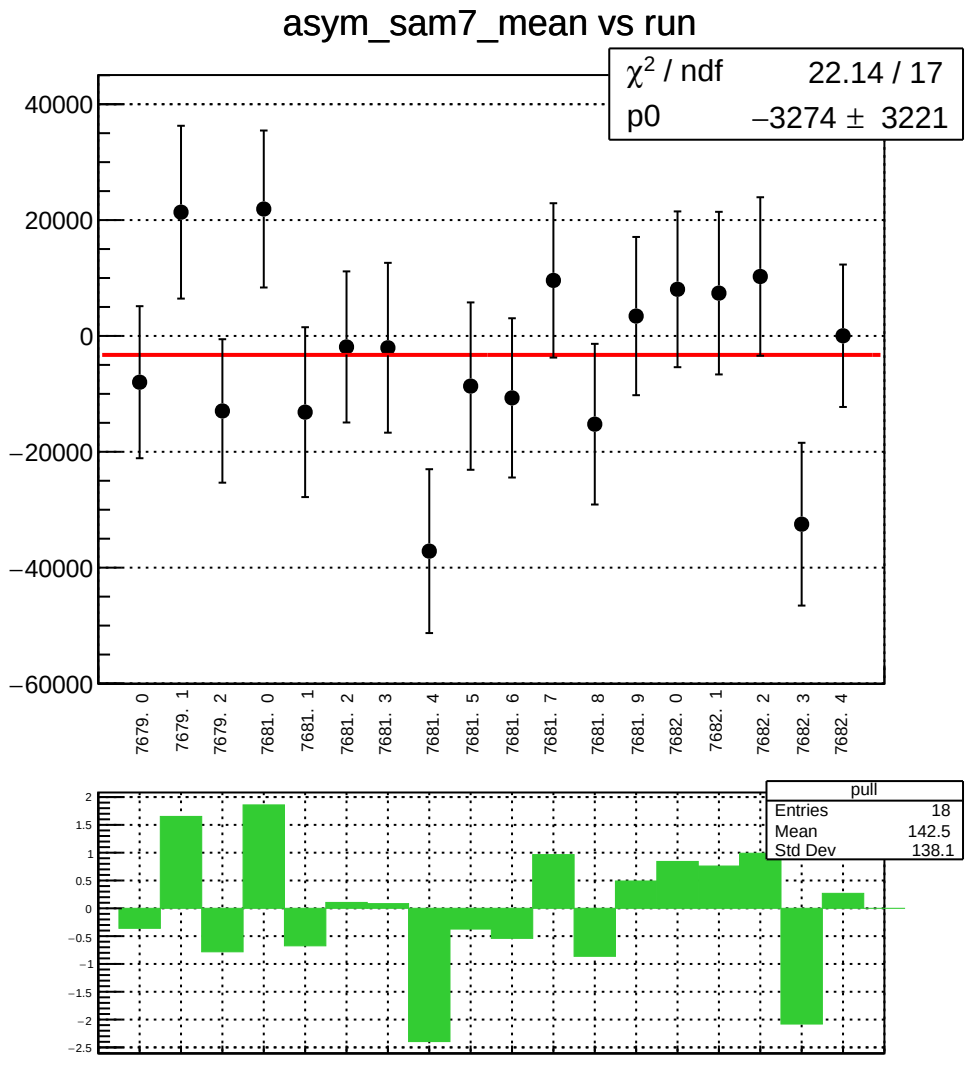

pull1D
Entries 18
Mean 0.01348
Std Dev 0.8138
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

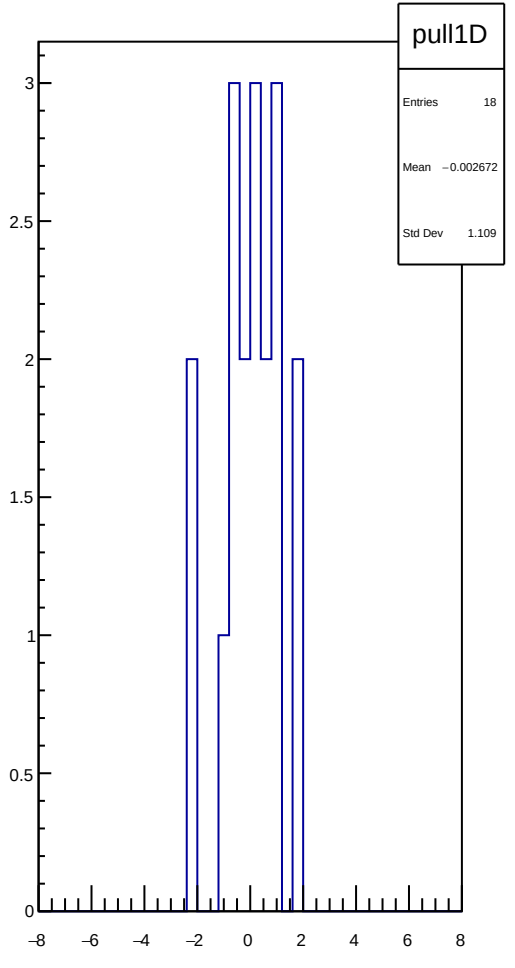

dit_asym_sam7_rms vs run
χ² / ndf 1407 / 17
p0 112.5 ± 0.1956
140
135
130
125
120
115
110
105
100
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

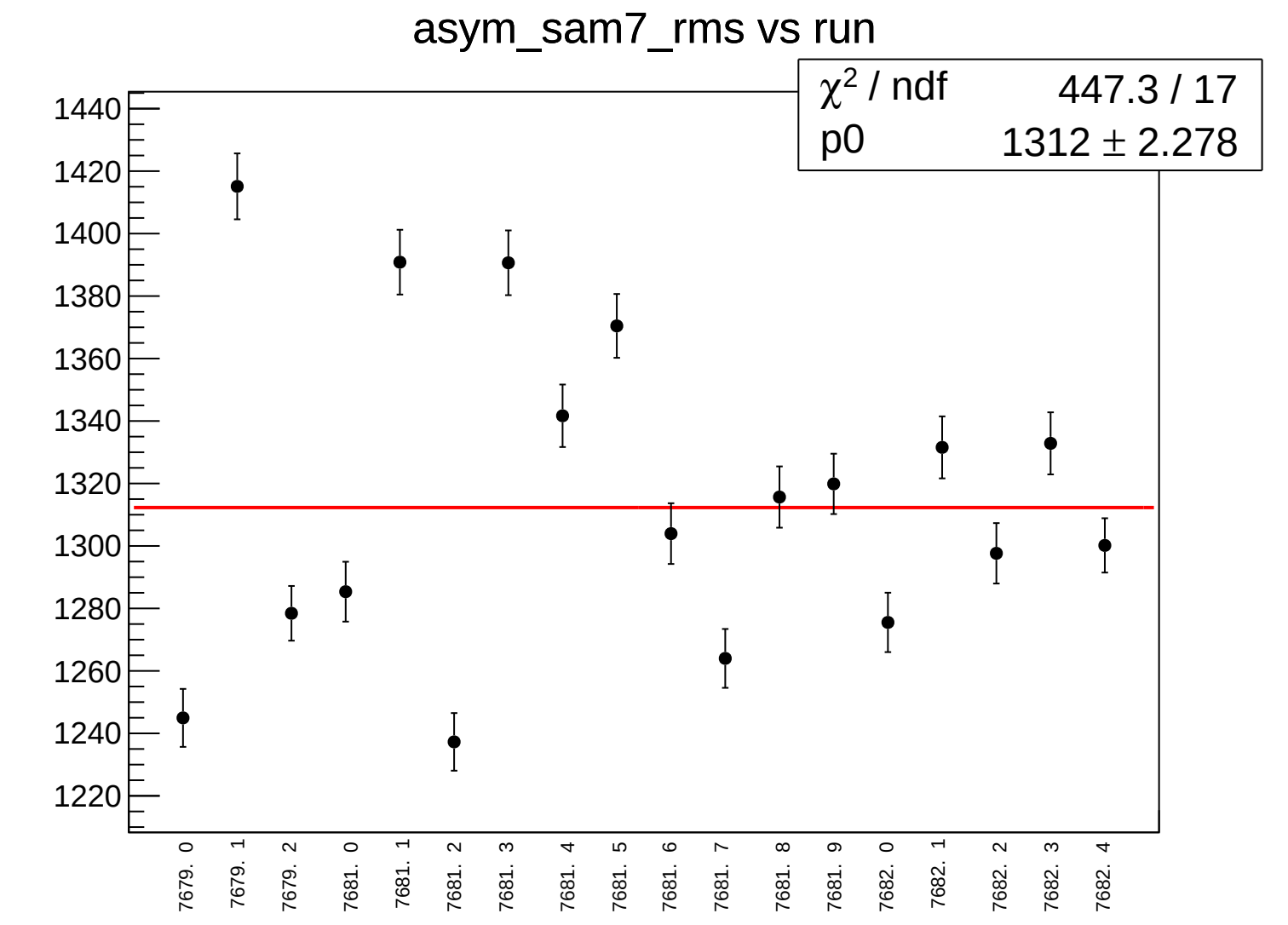

asym_sam7_correction_mean vs run
χ² / ndf 22.01 / 17
p0 3501 ± 3287
60000
40000
20000
0
−20000
−40000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 95.93
Std Dev 92.27
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

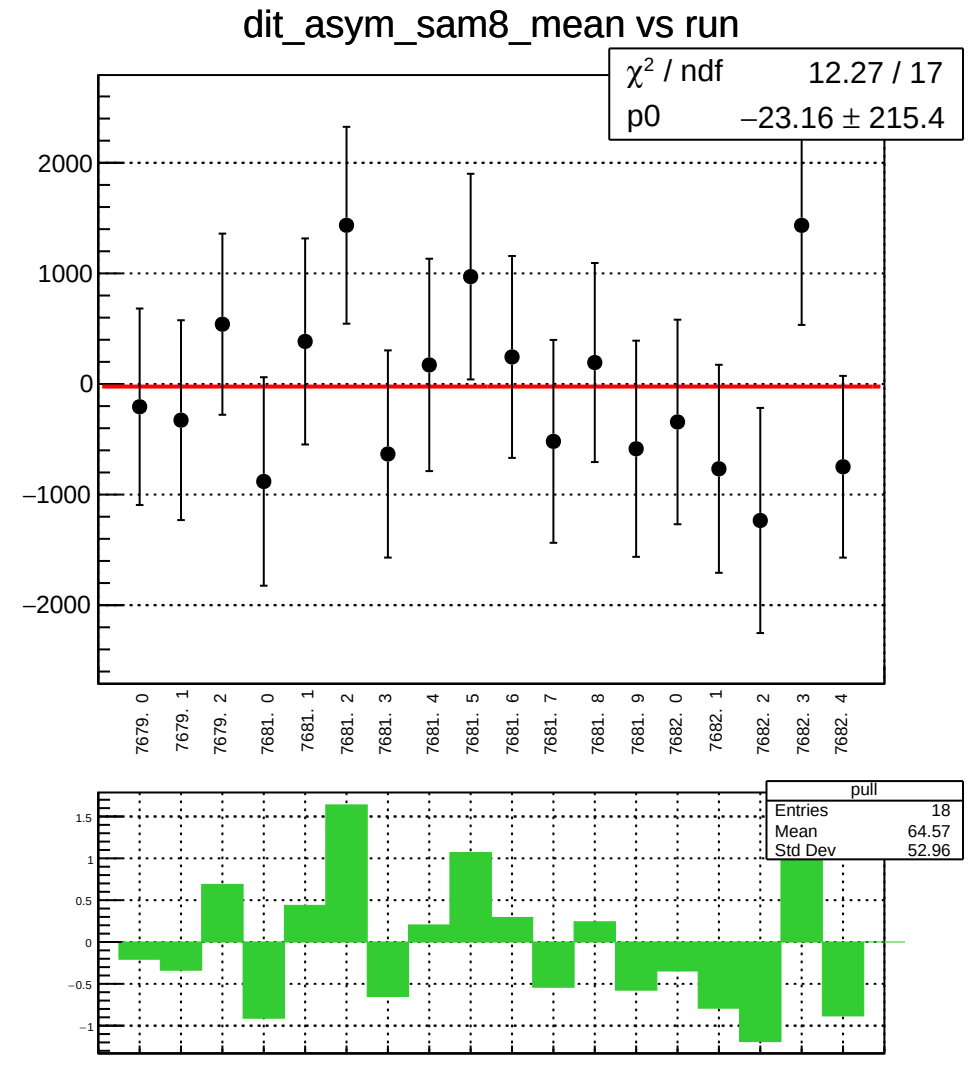

pull1D
Entries 18
Mean 0.003983
Std Dev 1.106
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

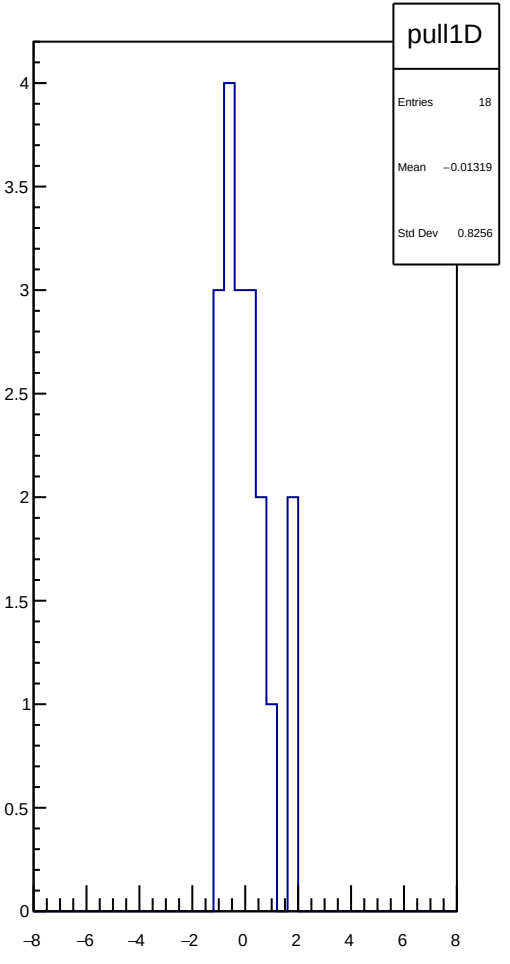

asym_sam7_correction_rms vs run
χ² / ndf 521.7 / 17
p0 1339 ± 2.324
1450
1400
1350
1300
1250
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

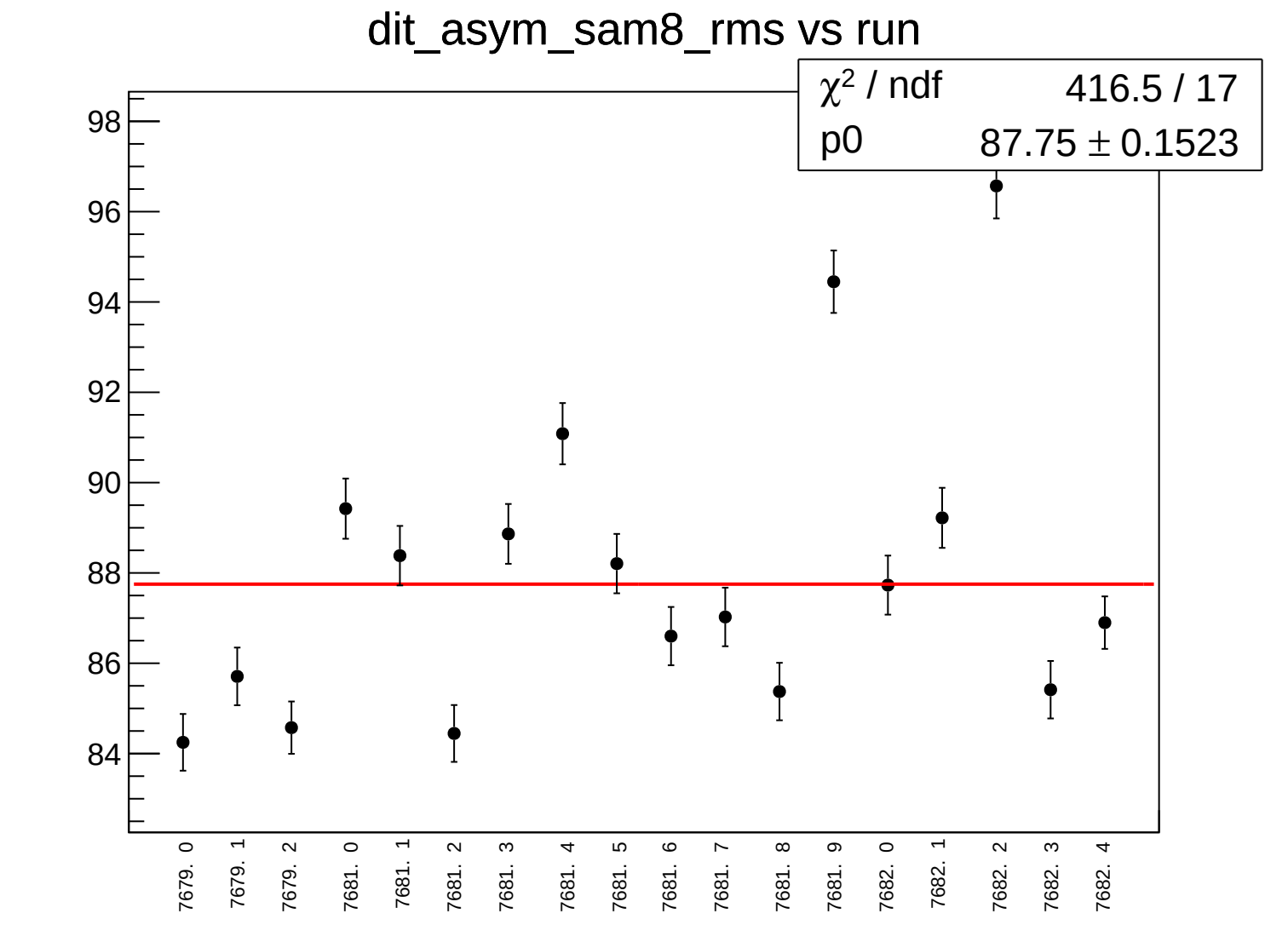

asym_sam7_mean vs run
χ² / ndf 22.14 / 17
p0 −3274 ± 3221
40000
20000
0
−20000
−40000
−60000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 142.5
Std Dev 138.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

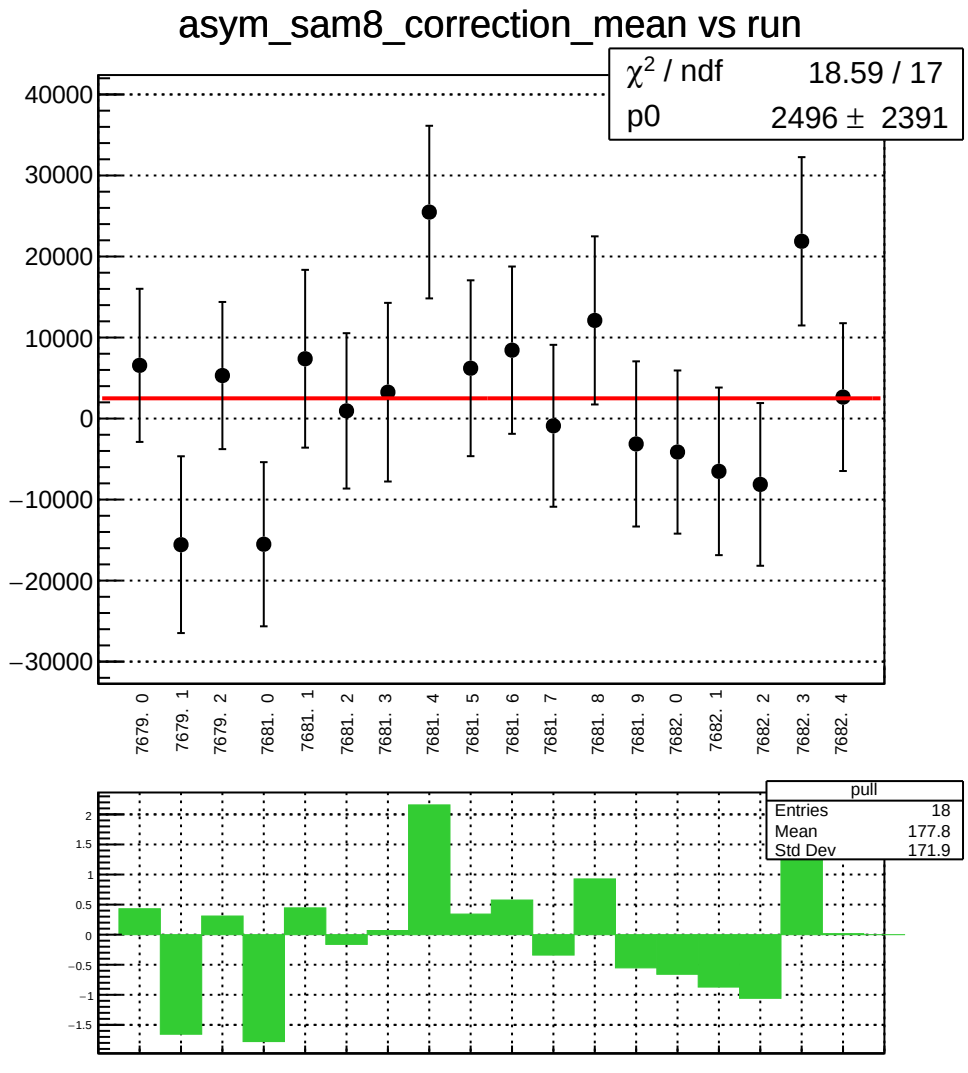

pull1D
Entries 18
Mean −0.002672
Std Dev 1.109
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

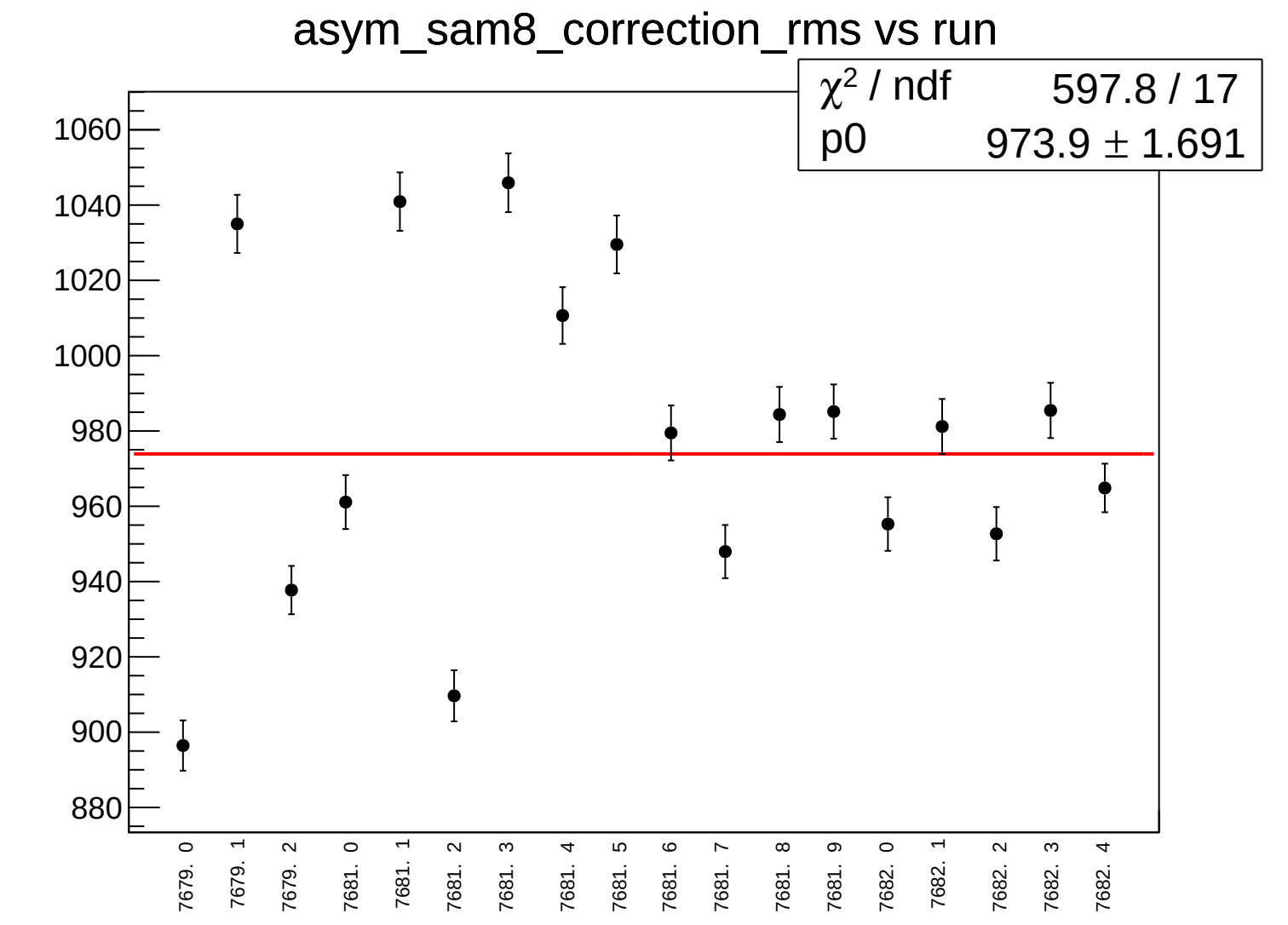

asym_sam7_rms vs run
χ² / ndf 447.3 / 17
p0 1312 ± 2.278
1440
1420
1400
1380
1360
1340
1320
1300
1280
1260
1240
1220
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

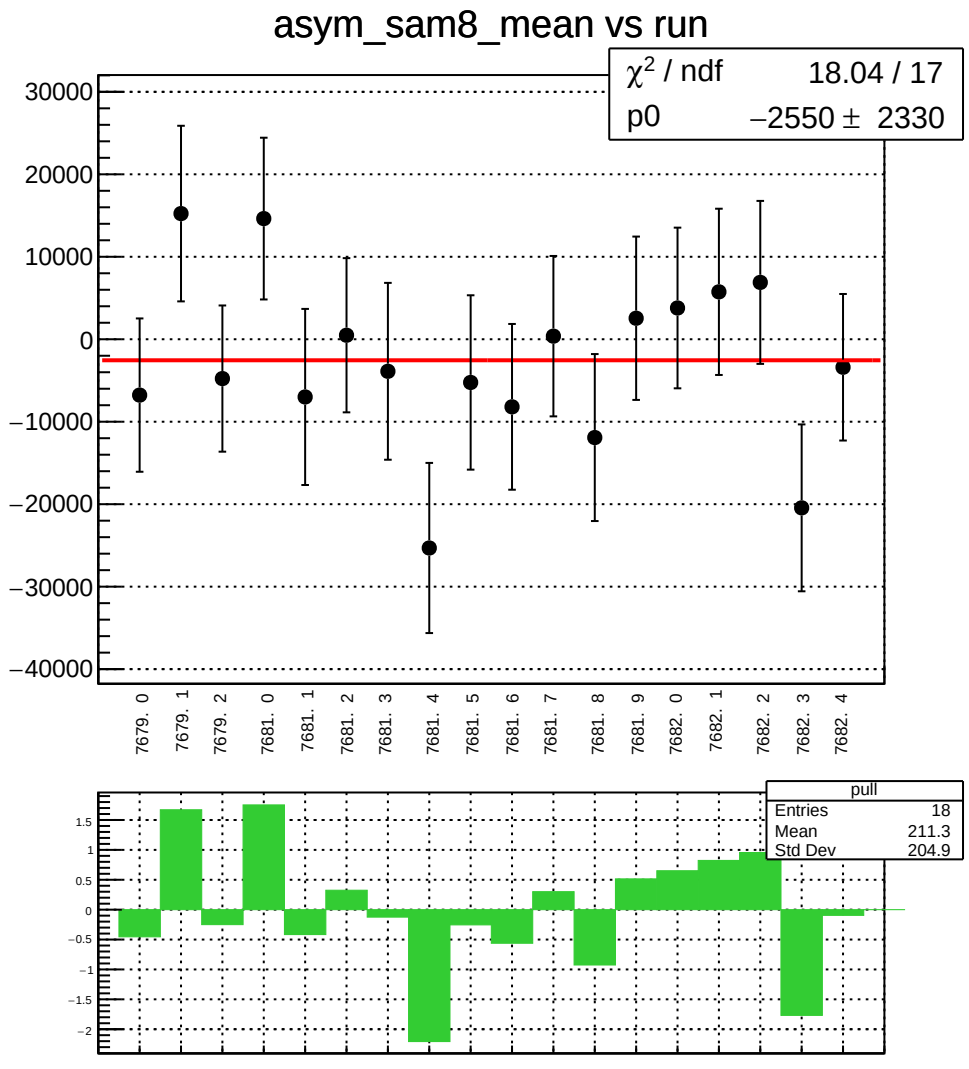

dit_asym_sam8_mean vs run
χ² / ndf 12.27 / 17
p0 −23.16 ± 215.4
2000
1000
0
−1000
−2000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 64.57
Std Dev 52.96
1.5
1
0.5
0
−0.5
−1

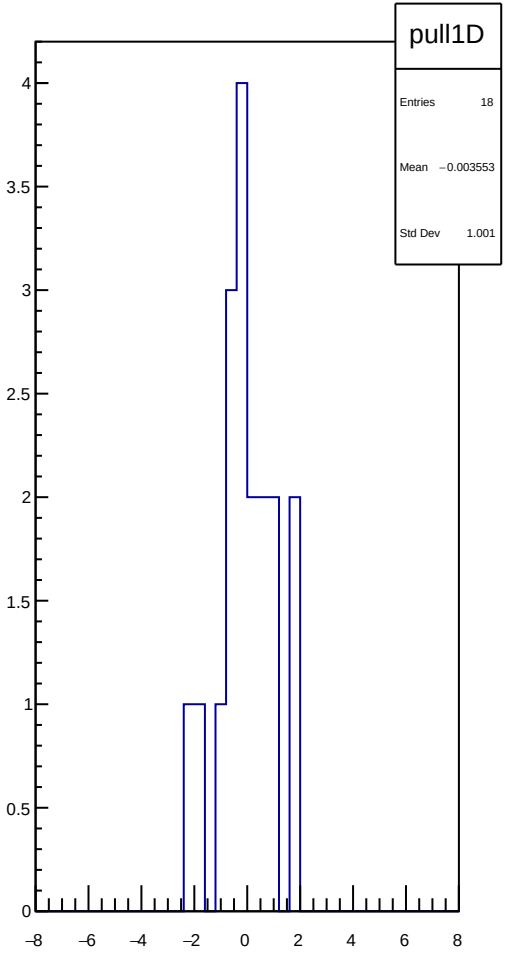

pull1D
Entries 18
Mean −0.01319
Std Dev 0.8256
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

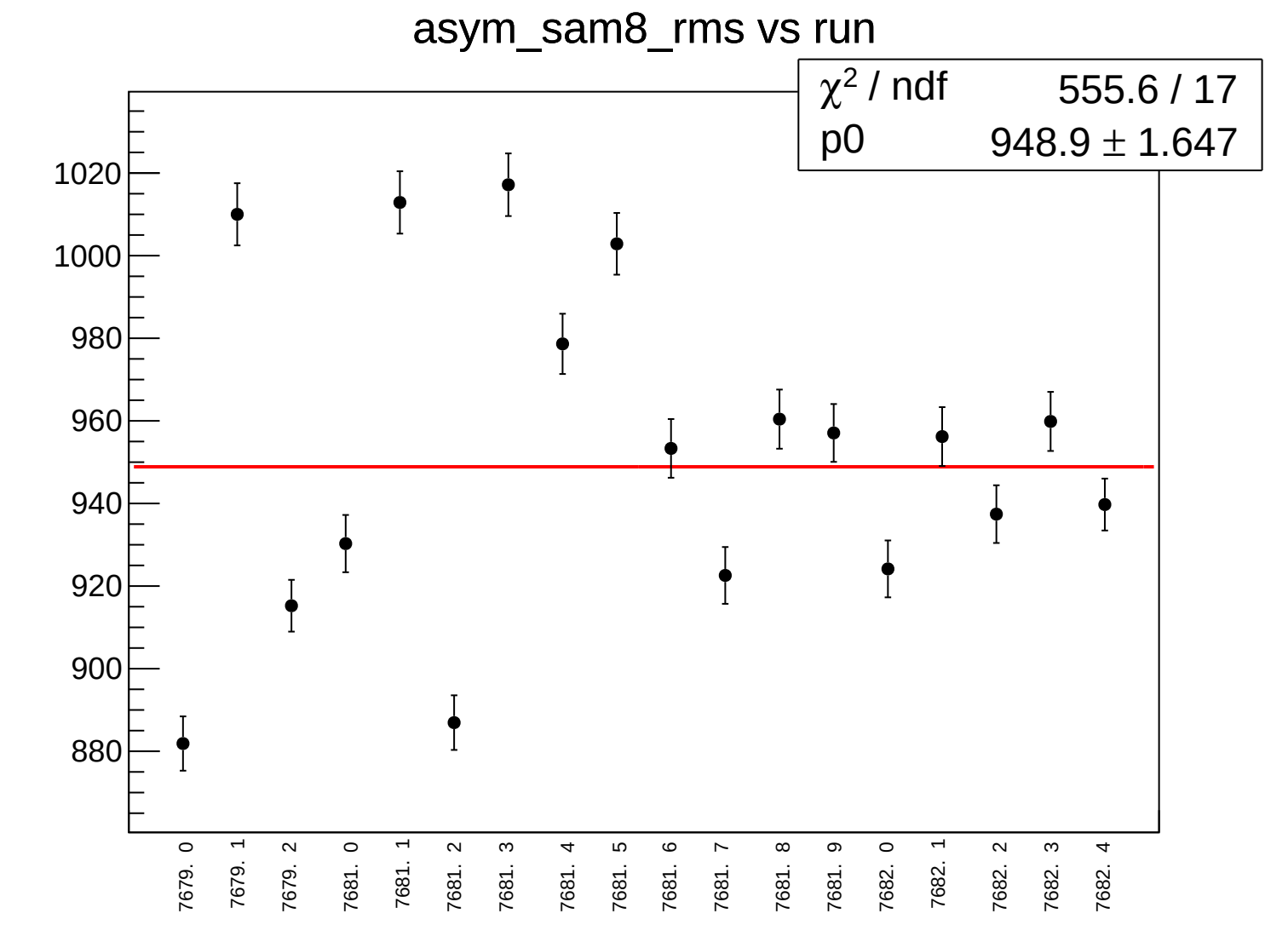

dit_asym_sam8_rms vs run
χ² / ndf 416.5 / 17
p0 87.75 ± 0.1523
98
96
94
92
90
88
86
84
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

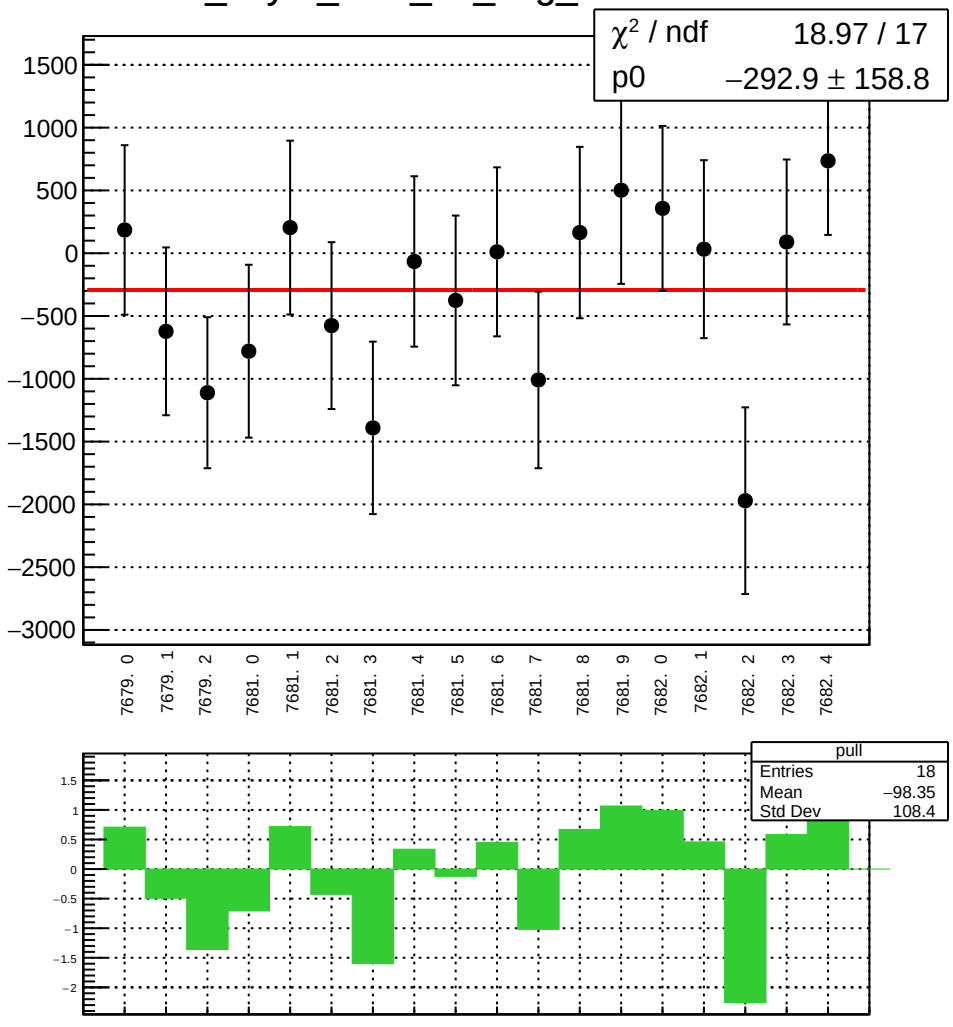

asym_sam8_correction_mean vs run
χ² / ndf 18.59 / 17
p0 2496 ± 2391
40000
30000
20000
10000
0
−10000
−20000
−30000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 177.8
Std Dev 171.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 18
Mean 0.003675
Std Dev 1.016
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

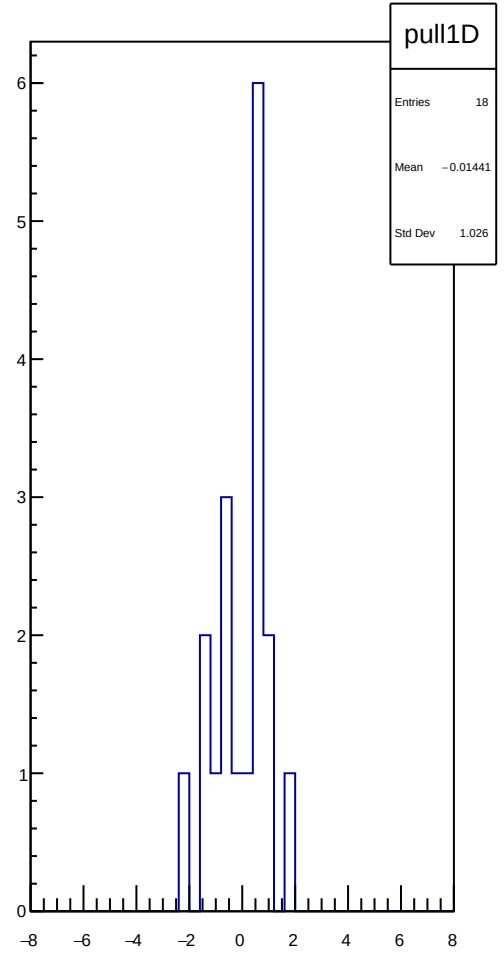

asym_sam8_correction_rms vs run
χ² / ndf 597.8 / 17
p0 973.9 ± 1.691
1060
1040
1020
1000
980
960
940
920
900
880
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

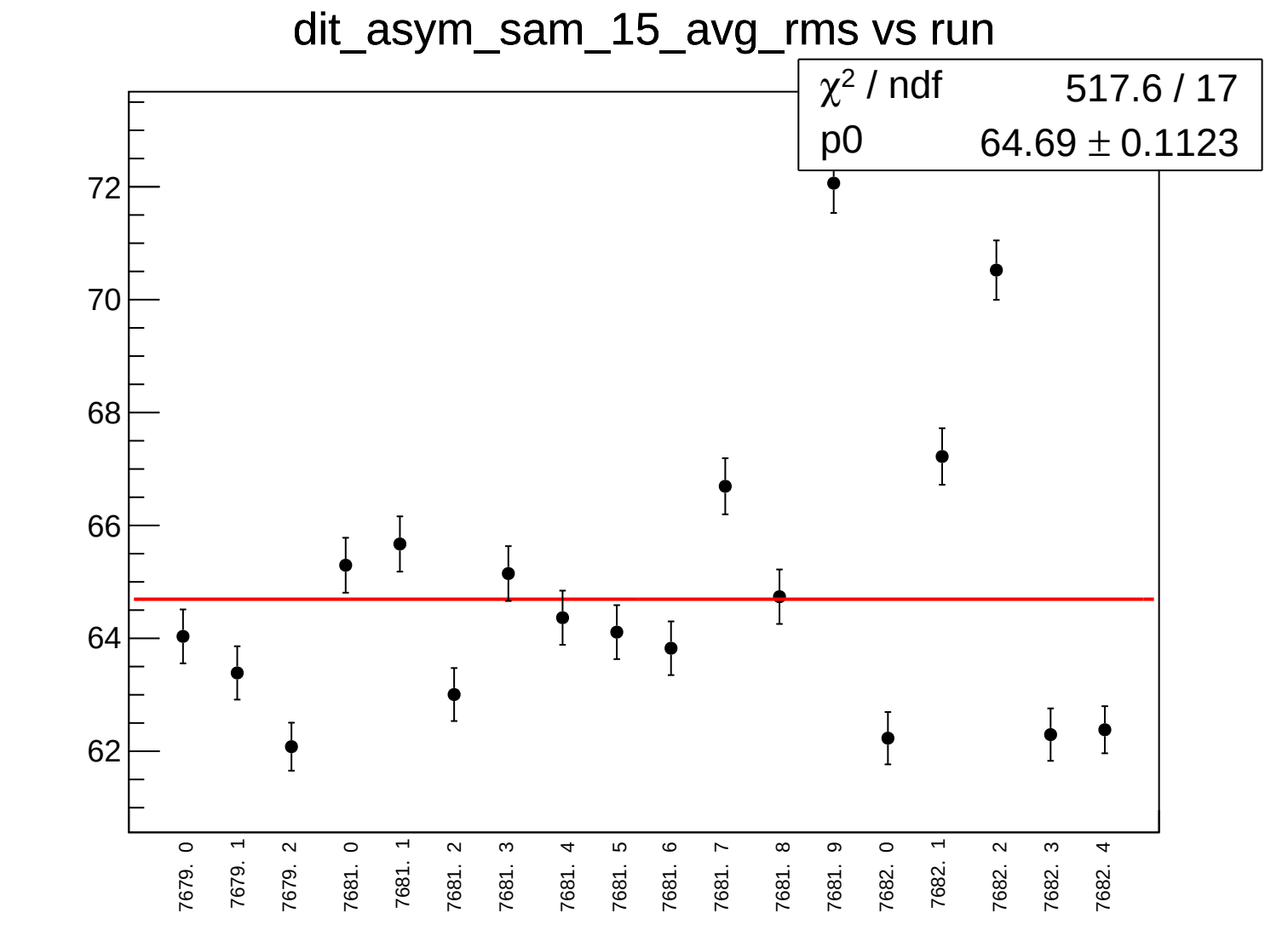

asym_sam8_mean vs run
χ² / ndf 18.04 / 17
p0 −2550 ± 2330
30000
20000
10000
0
−10000
−20000
−30000
−40000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 211.3
Std Dev 204.9
1.5
1
0.5
0
−0.5
−1
−1.5
−2

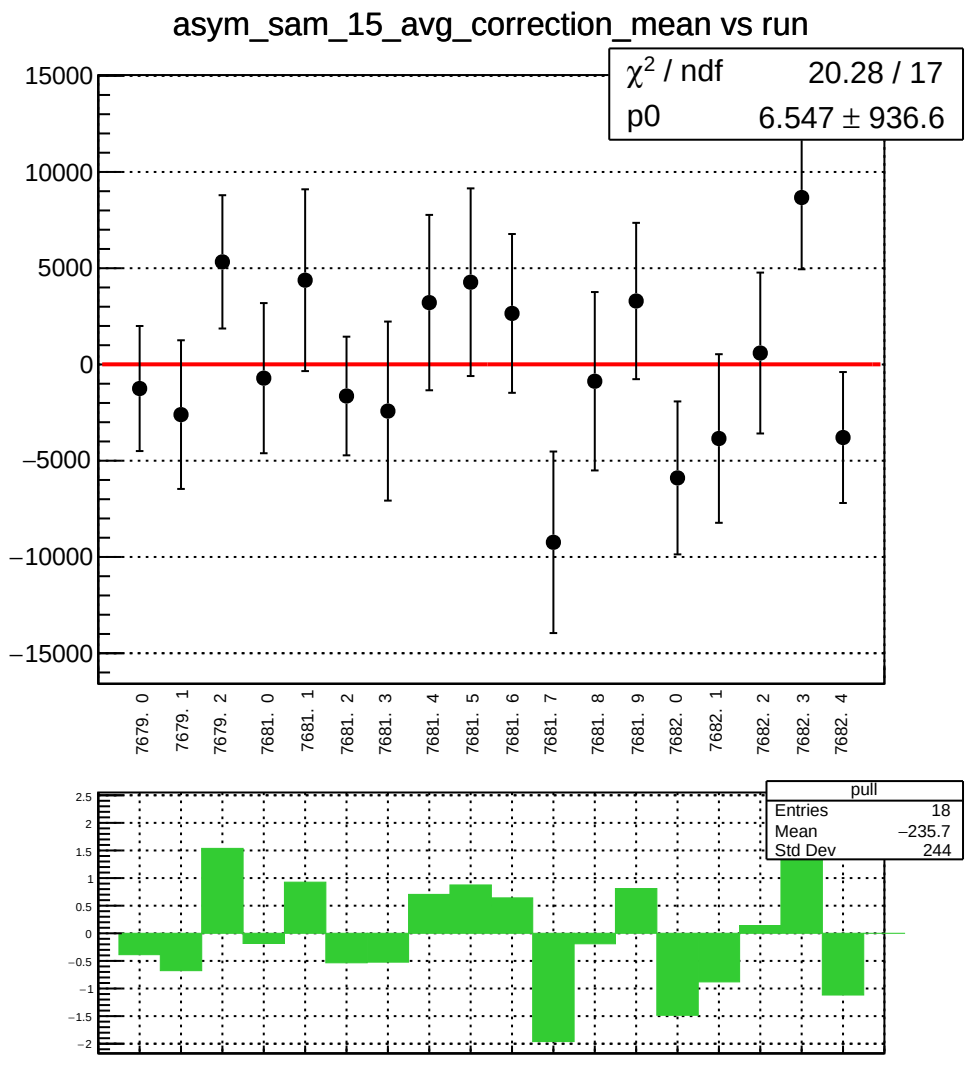

pull1D
Entries 18
Mean −0.003553
Std Dev 1.001
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

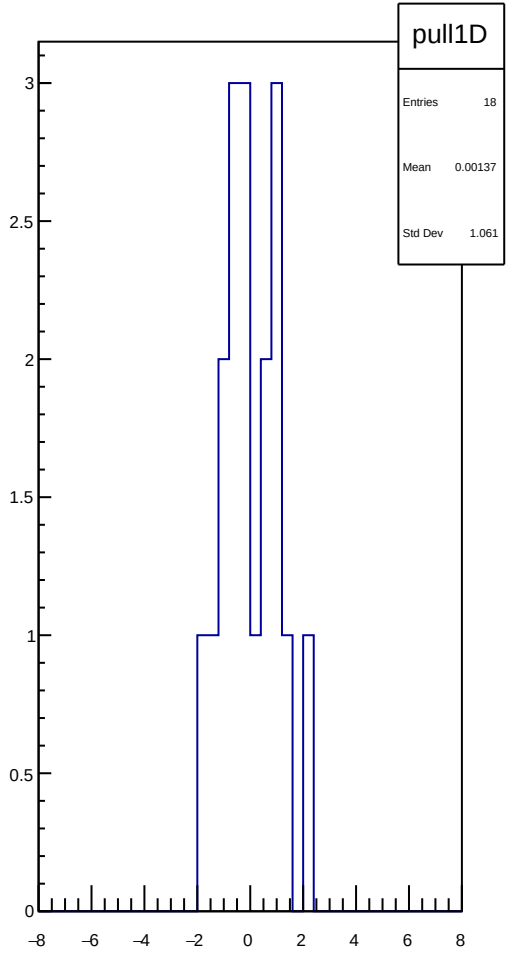

asym_sam8_rms vs run
χ² / ndf 555.6 / 17
p0 948.9 ± 1.647
1020
1000
980
960
940
920
900
880
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

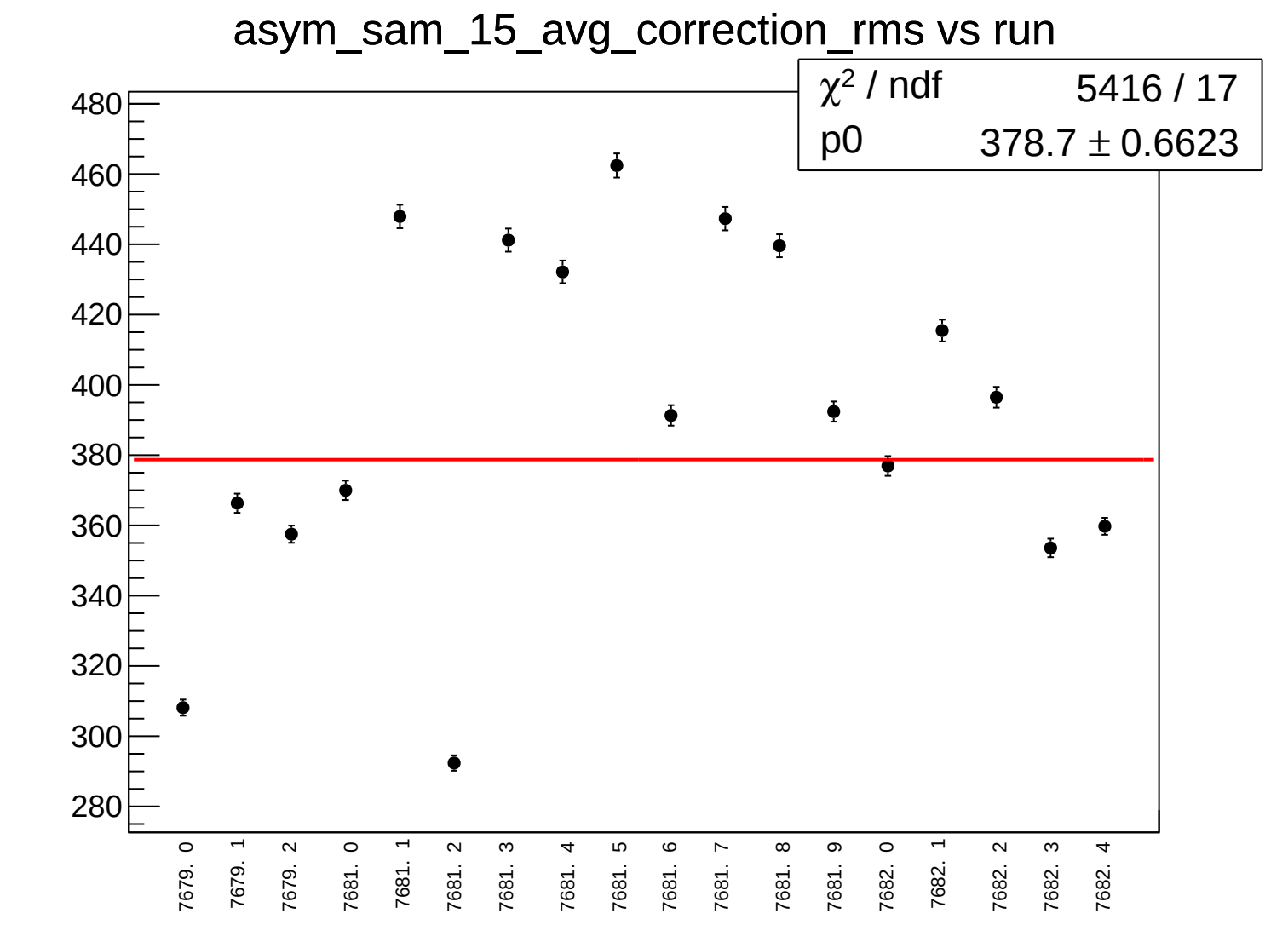

dit_asym_sam_15_avg_mean vs run
χ² / ndf 18.97 / 17
p0 −292.9 ± 158.8
1500
1000
500
0
−500
−1000
−1500
−2000
−2500
−3000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −98.35
Std Dev 108.4
1.5
1
0.5
0
−0.5
−1
−1.5
−2

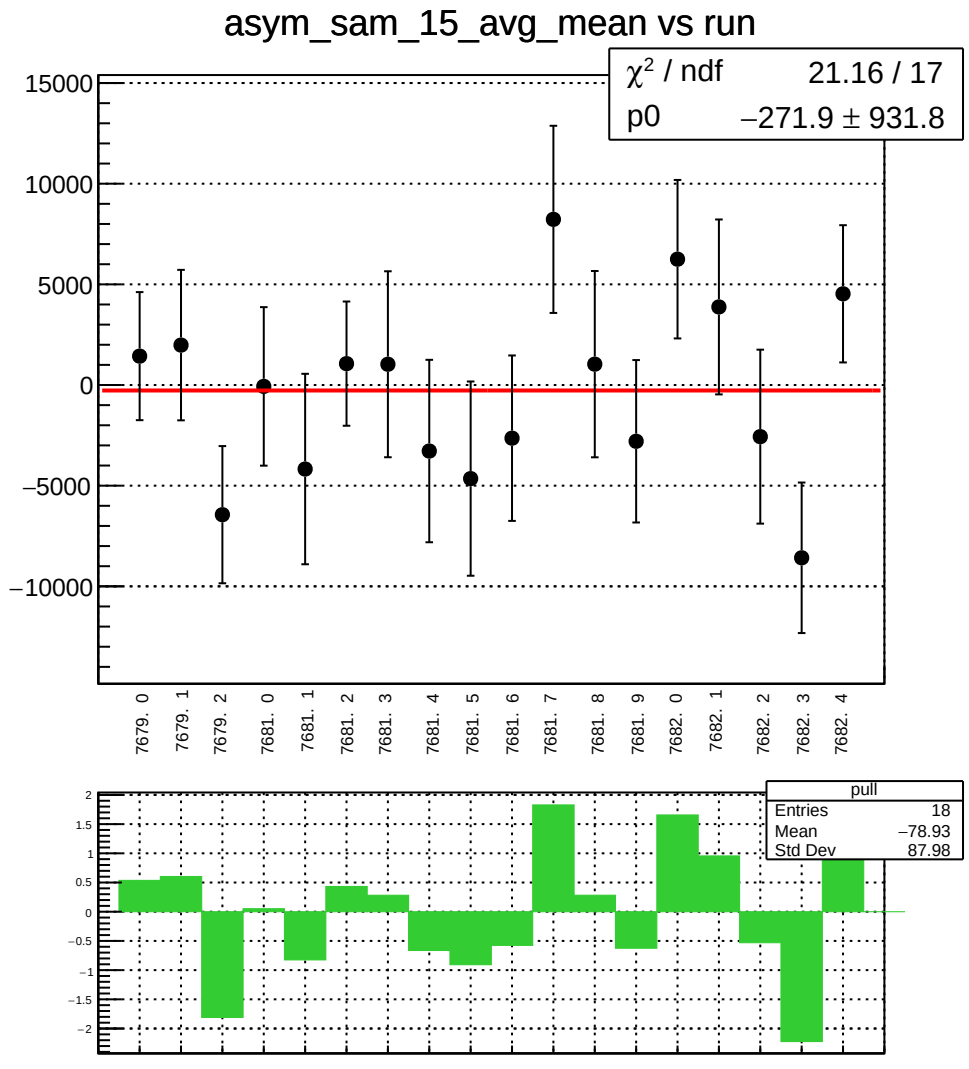

pull1D
Entries 18
Mean −0.01441
Std Dev 1.026
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

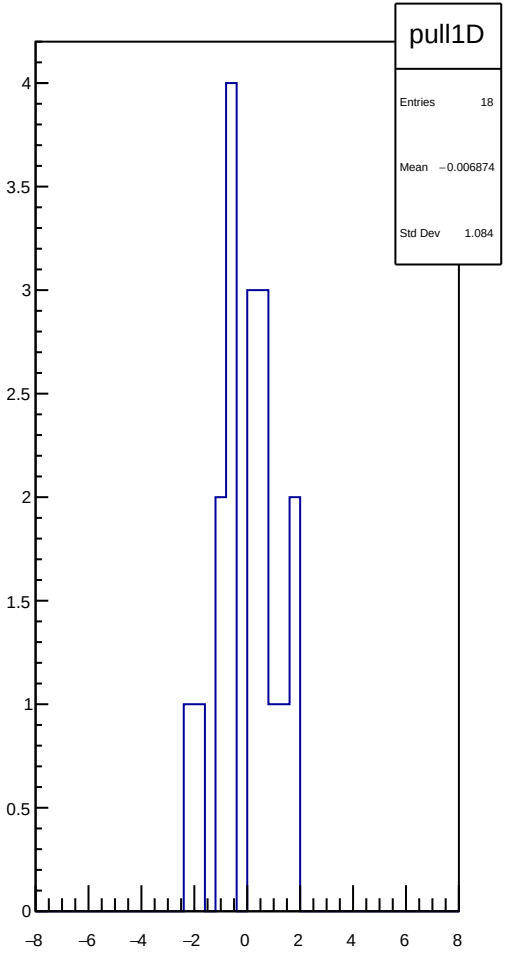

dit_asym_sam_15_avg_rms vs run
χ² / ndf 517.6 / 17
p0 64.69 ± 0.1123
72
70
68
66
64
62
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

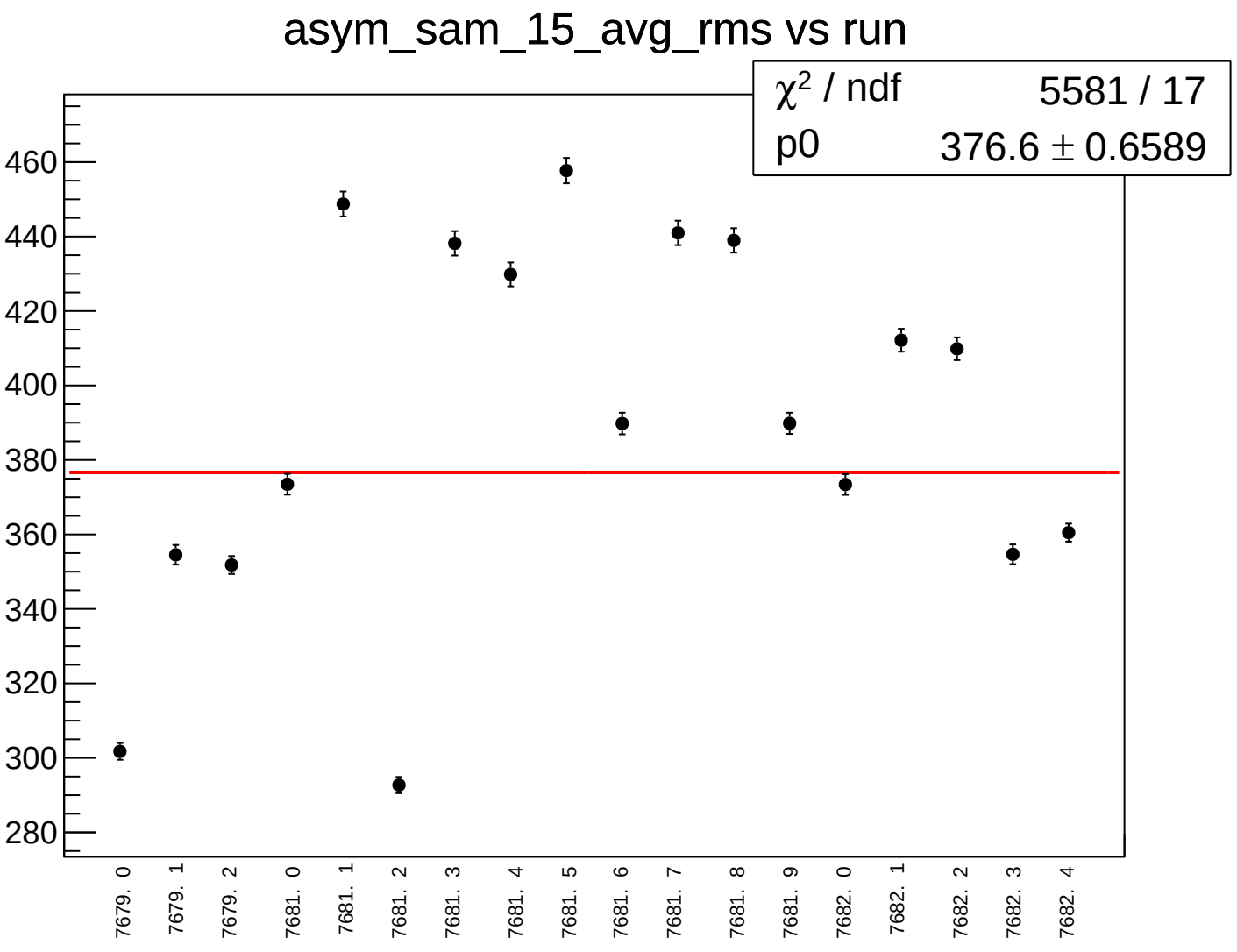

asym_sam_15_avg_correction_mean vs run
χ² / ndf 20.28 / 17
p0 6.547 ± 936.6
15000
10000
5000
0
−5000
−10000
−15000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −235.7
Std Dev 244
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

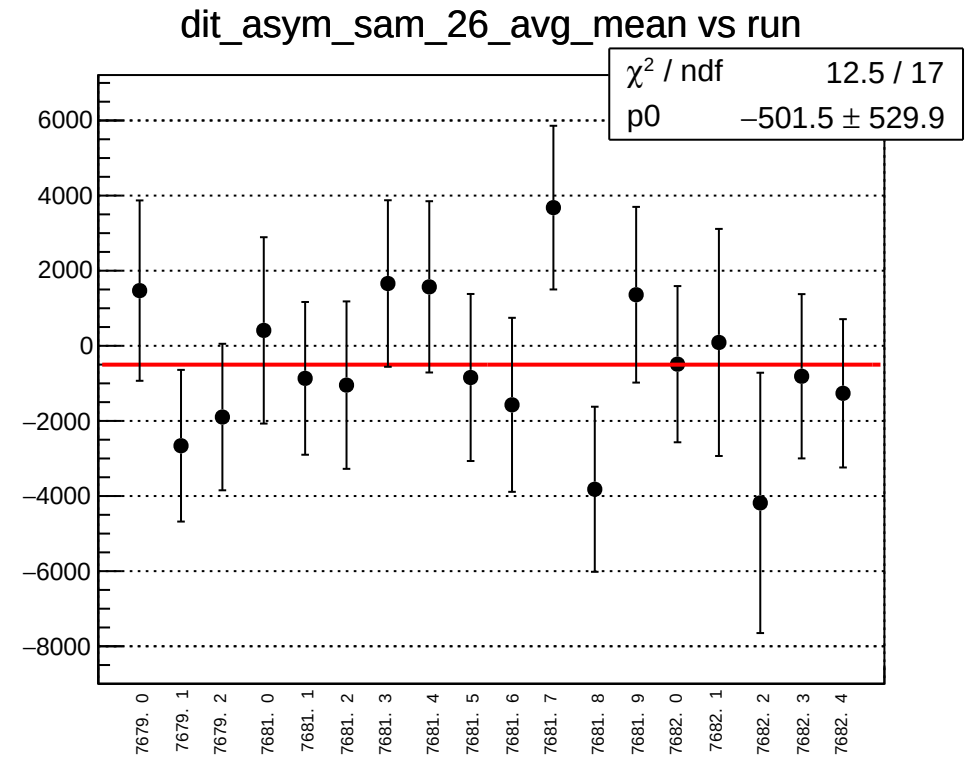

pull1D
Entries 18
Mean 0.00137
Std Dev 1.061
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

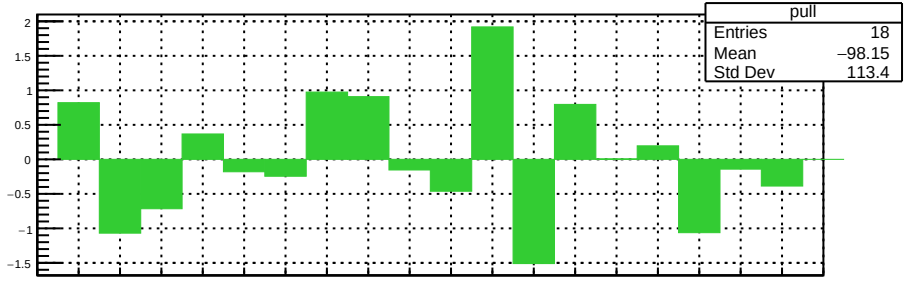

asym_sam_15_avg_correction_rms vs run
χ² / ndf 5416 / 17
p0 378.7 ± 0.6623
480
460
440
420
400
380
360
340
320
300
280
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

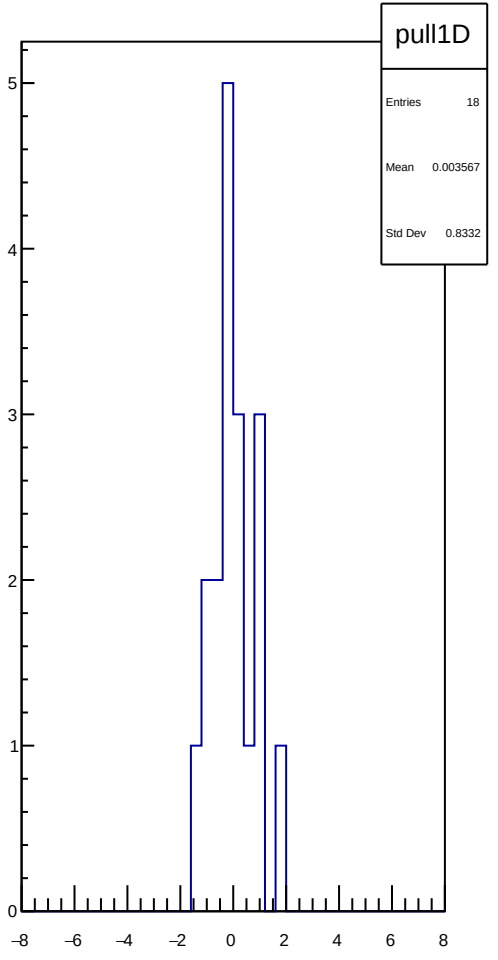

asym_sam_15_avg_mean vs run
χ² / ndf 21.16 / 17
p0 −271.9 ± 931.8
15000
10000
5000
0
−5000
−10000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −78.93
Std Dev 87.98
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

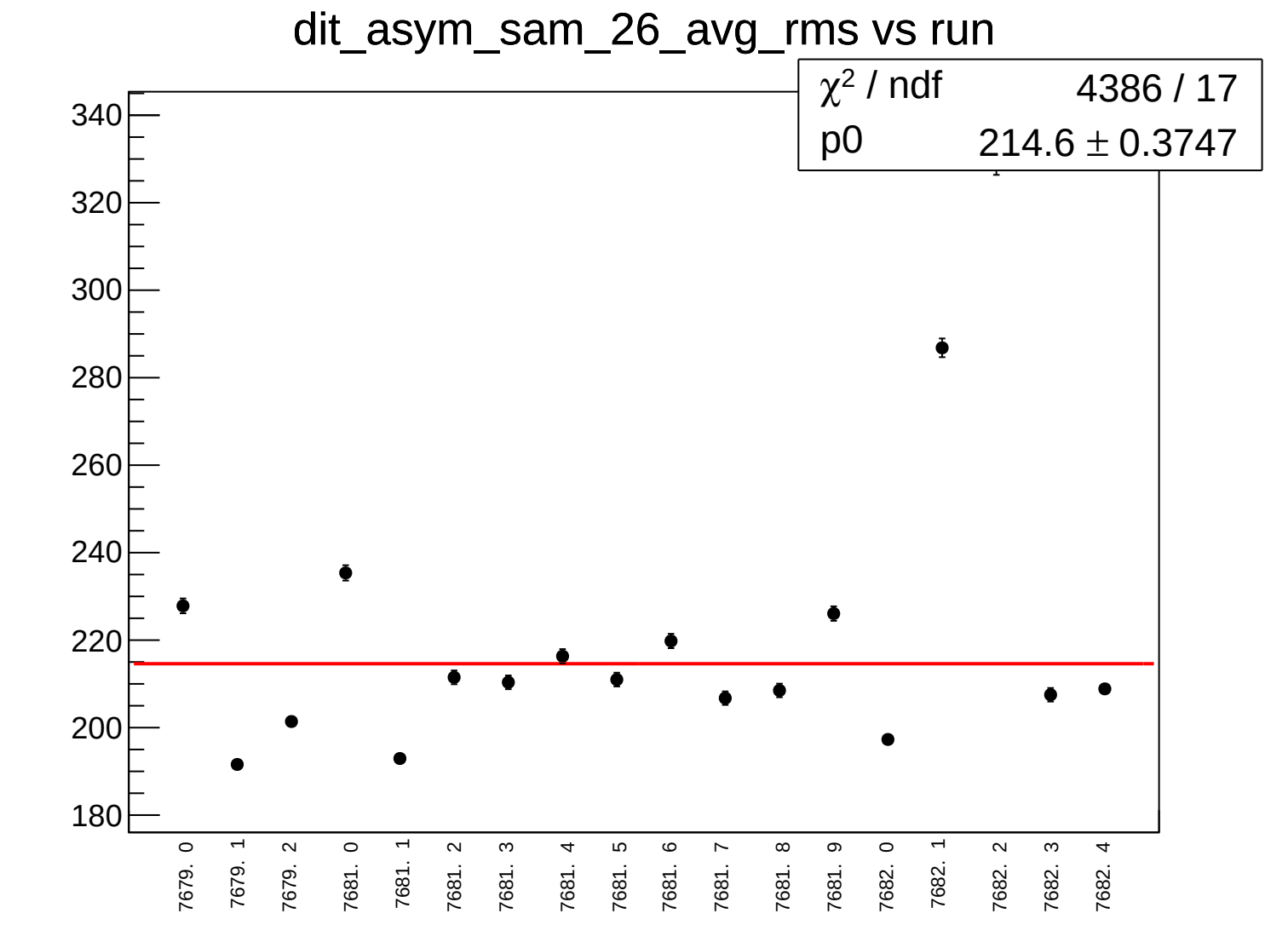

pull1D
Entries 18
Mean −0.006874
Std Dev 1.084
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

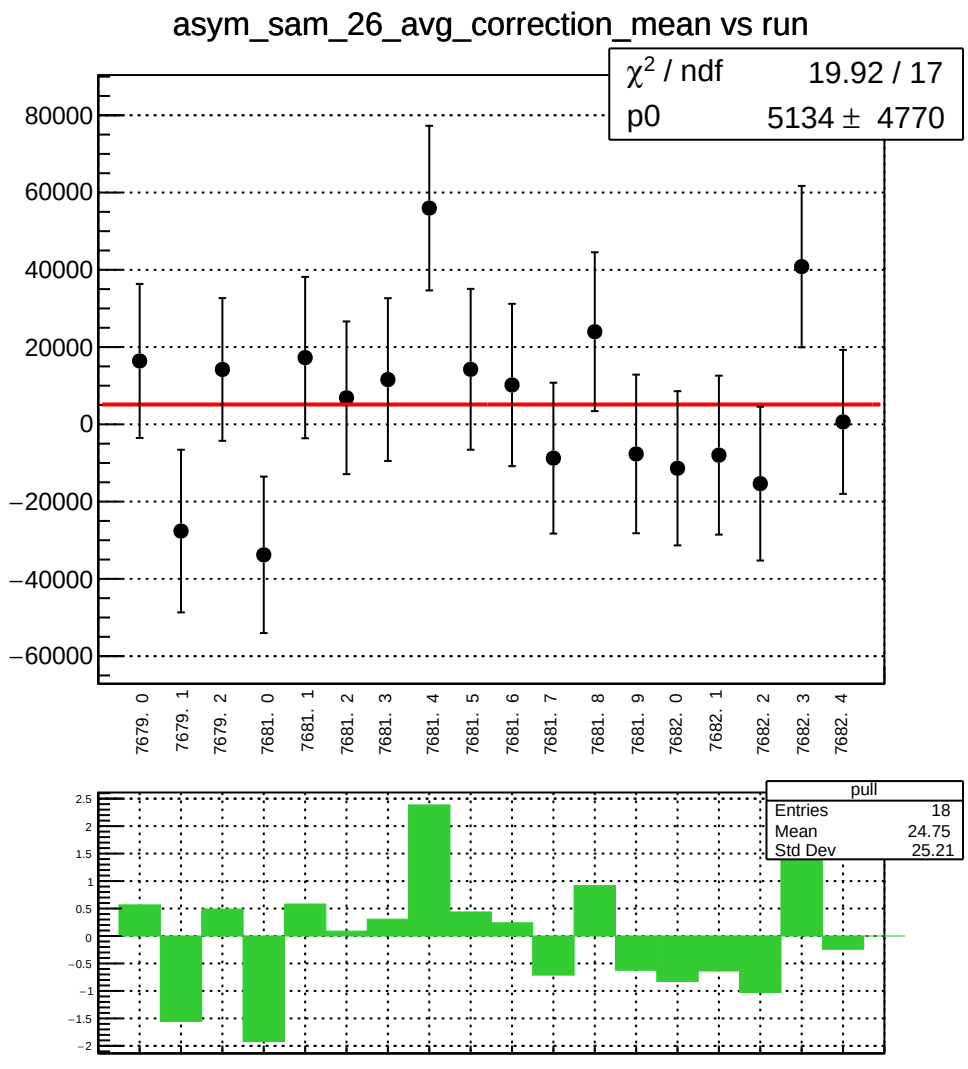

asym_sam_15_avg_rms vs run
χ² / ndf 5581 / 17
p0 376.6 ± 0.6589
460
440
420
400
380
360
340
320
300
280
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

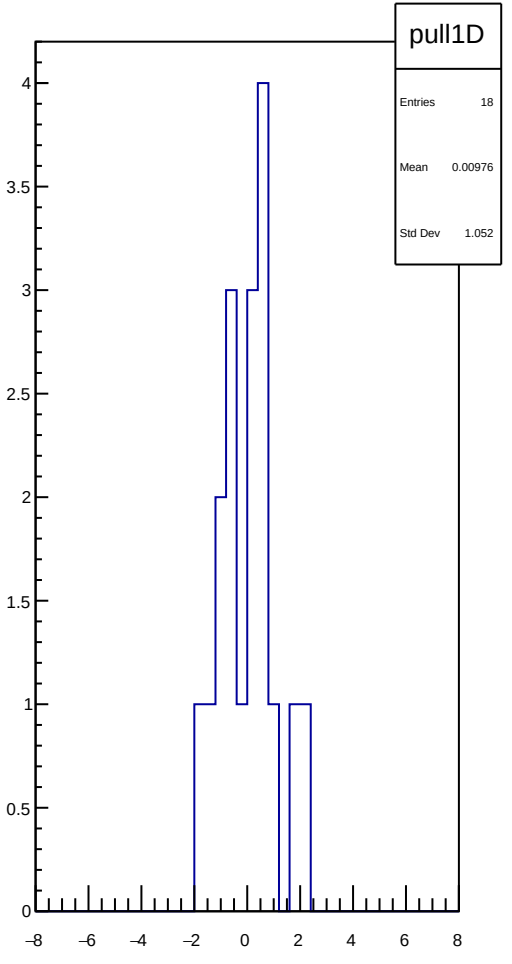

dit_asym_sam_26_avg_mean vs run
χ² / ndf 12.5 / 17
p0 −501.5 ± 529.9
6000
4000
2000
0
−2000
−4000
−6000
−8000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

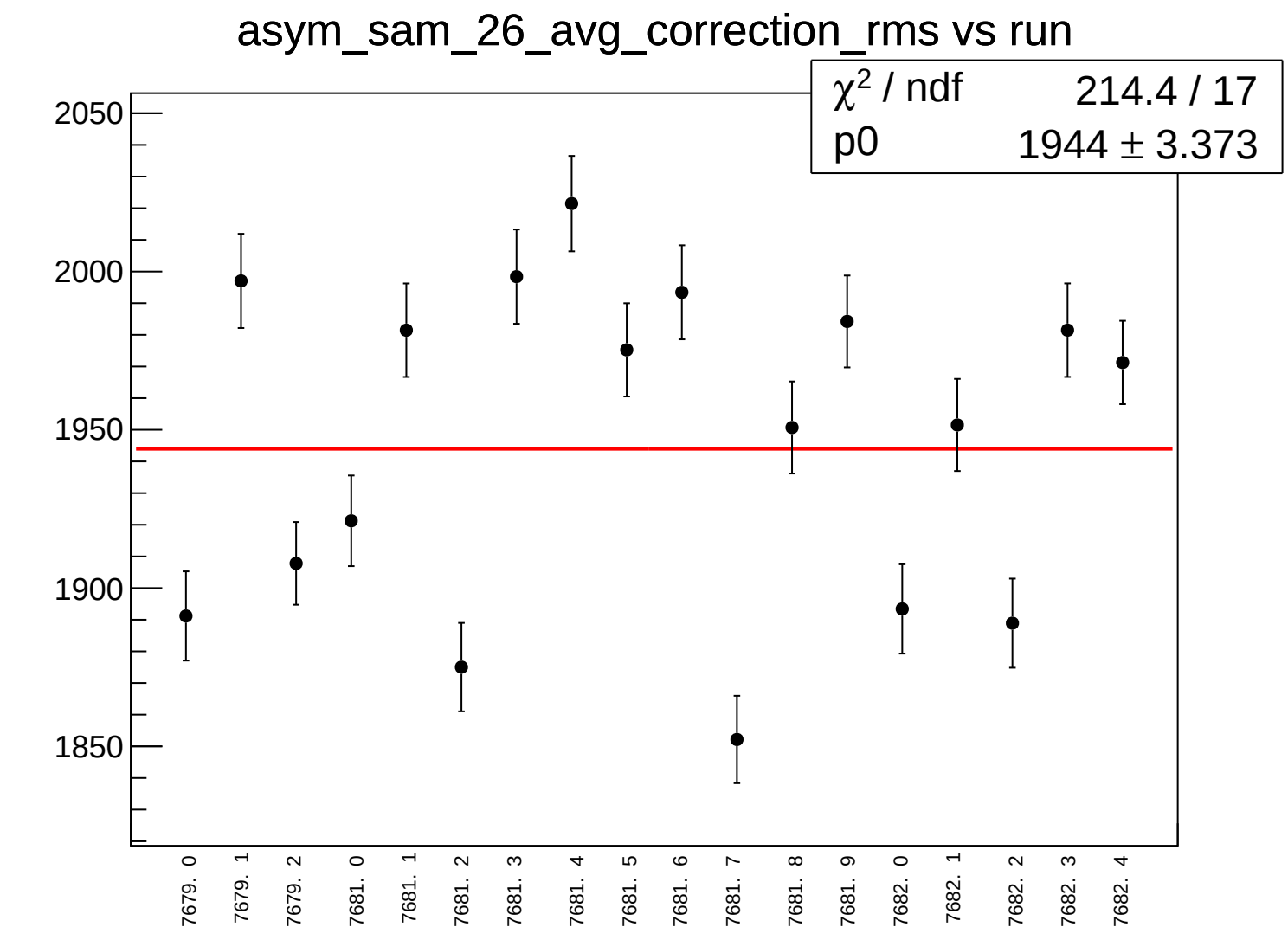

pull
Entries 18
Mean −98.15
Std Dev 113.4
2
1.5
1
0.5
0
−0.5
−1
−1.5

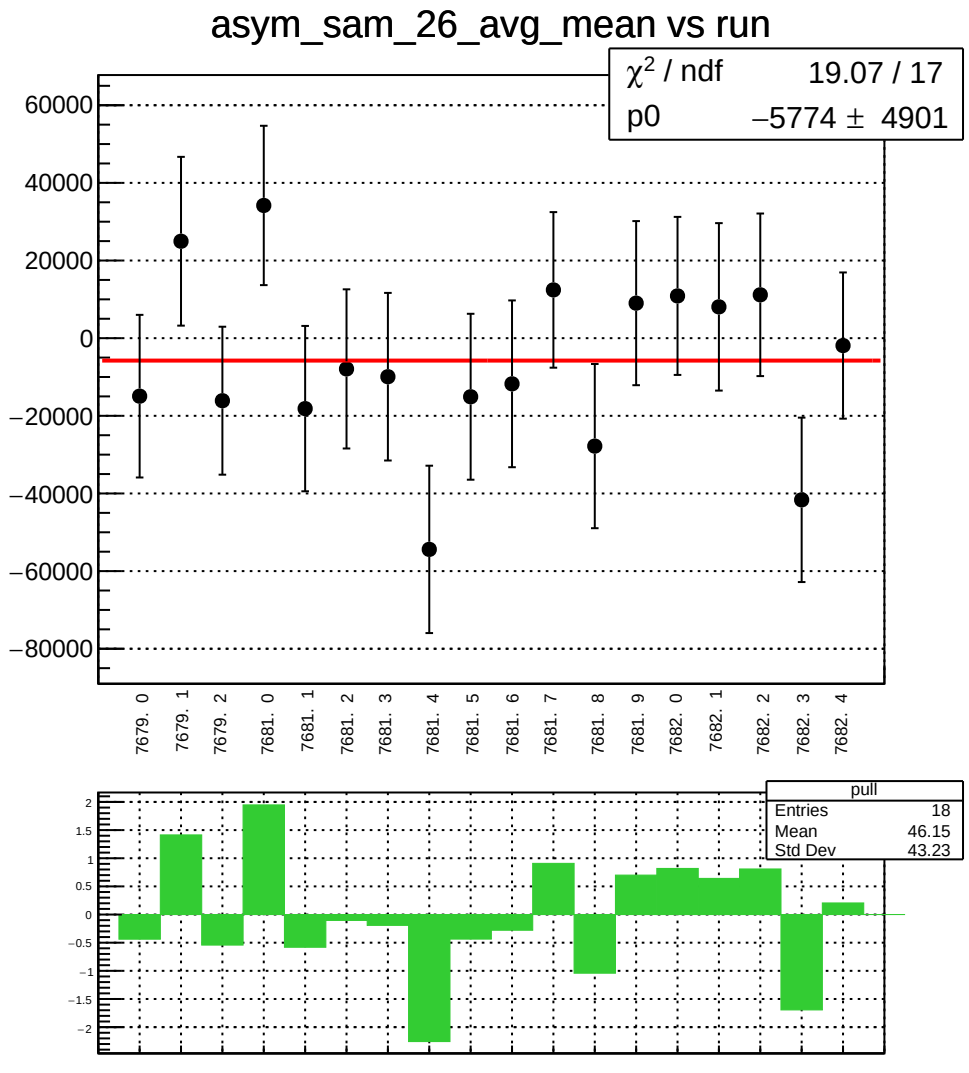

pull1D
Entries 18
Mean 0.003567
Std Dev 0.8332
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

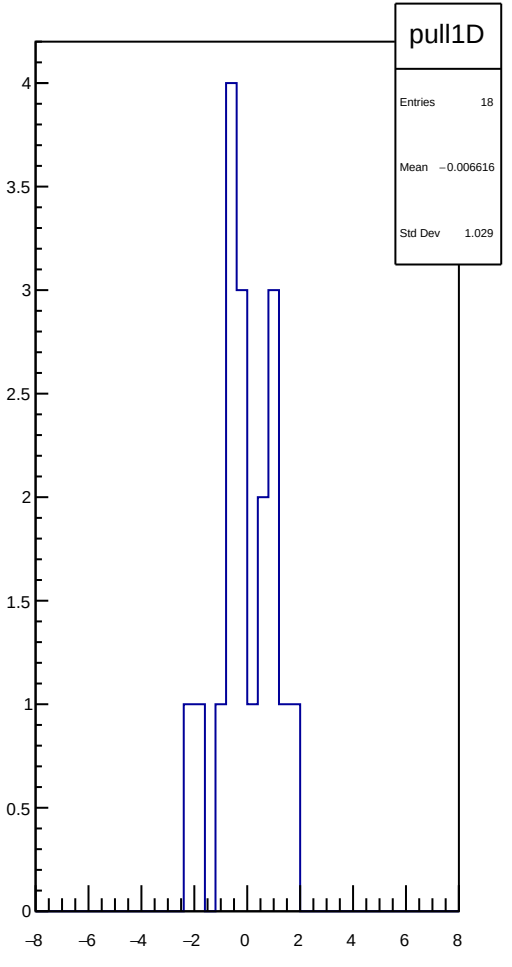

dit_asym_sam_26_avg_rms vs run
χ² / ndf 4386 / 17
p0 214.6 ± 0.3747
340
320
300
280
260
240
220
200
180
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

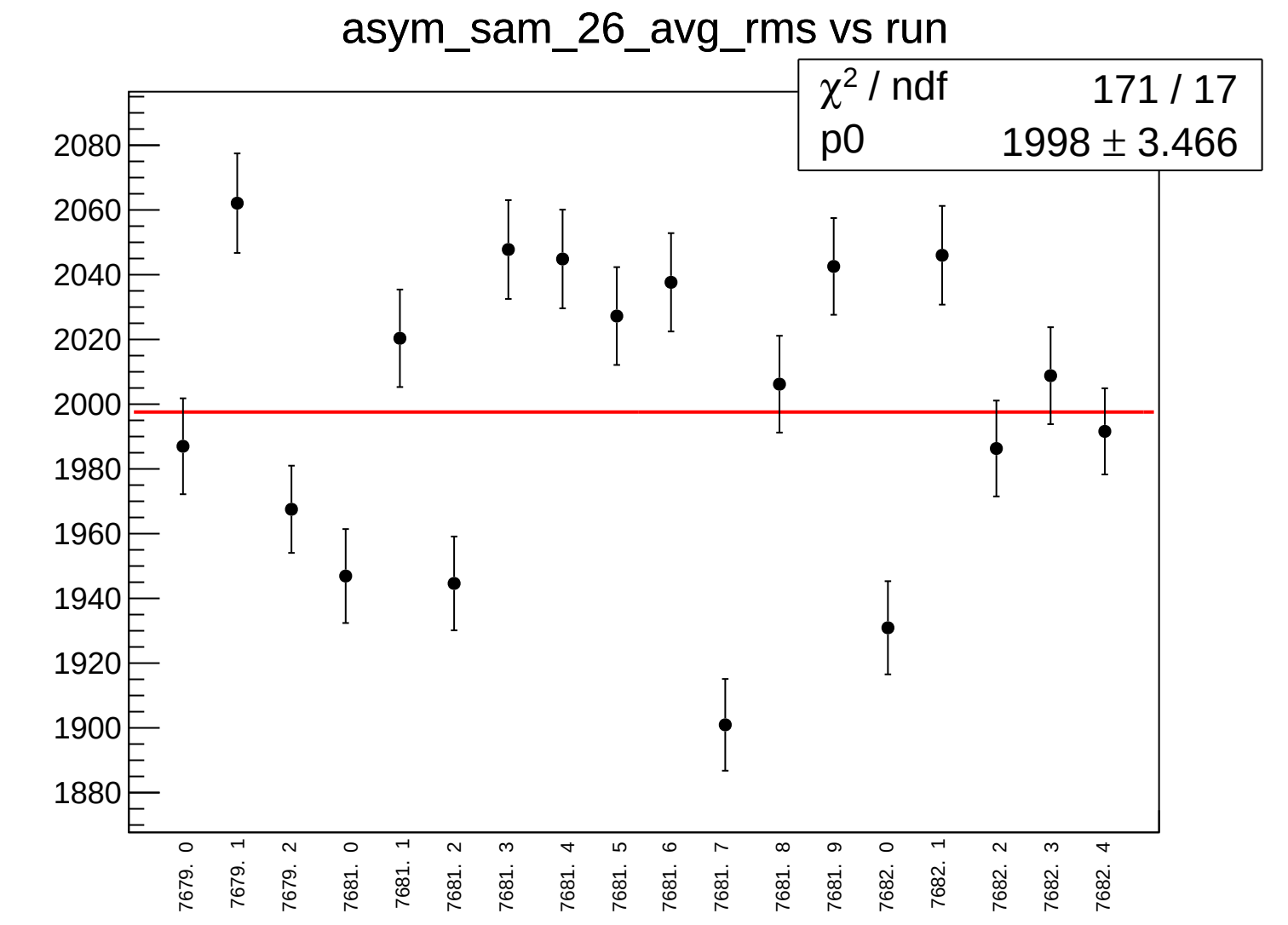

asym_sam_26_avg_correction_mean vs run
χ² / ndf 19.92 / 17
p0 5134 ± 4770
80000
60000
40000
20000
0
−20000
−40000
−60000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 24.75
Std Dev 25.21
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

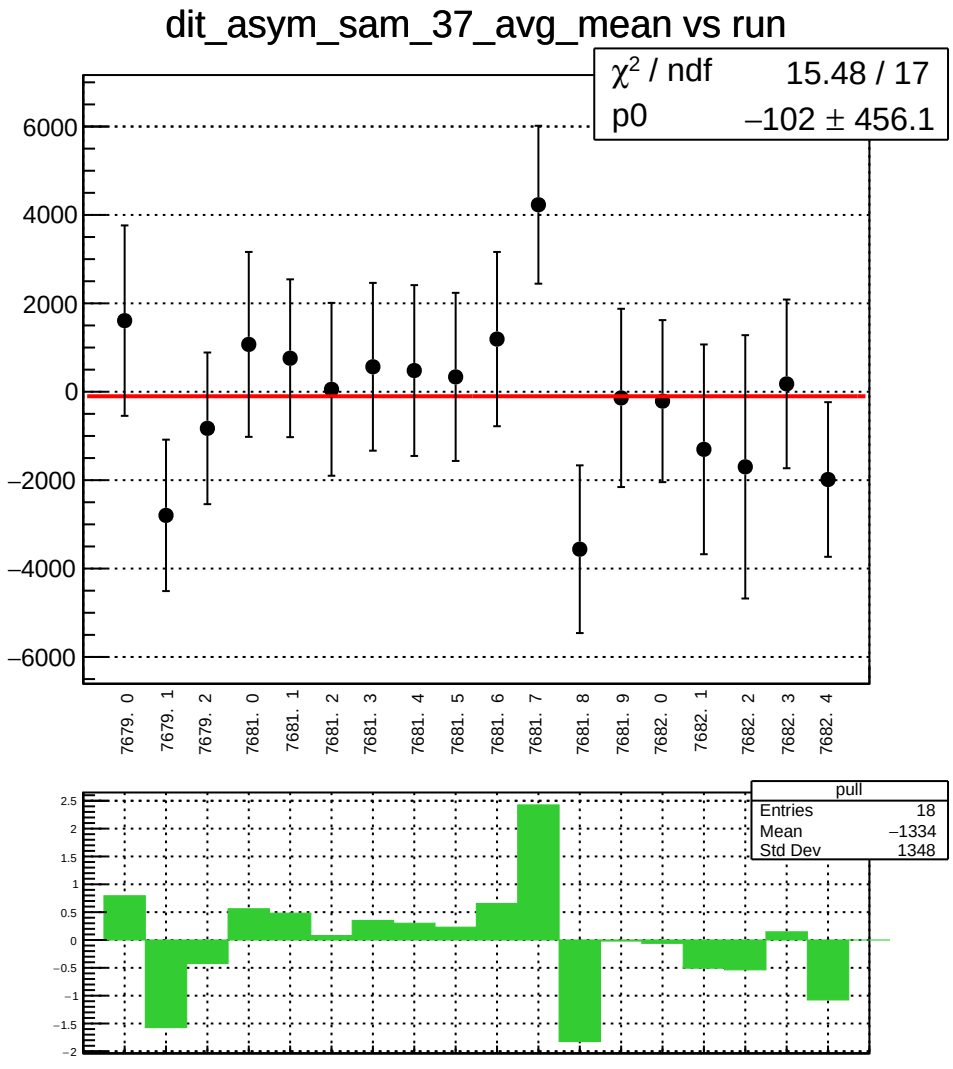

pull1D
Entries 18
Mean 0.00976
Std Dev 1.052
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

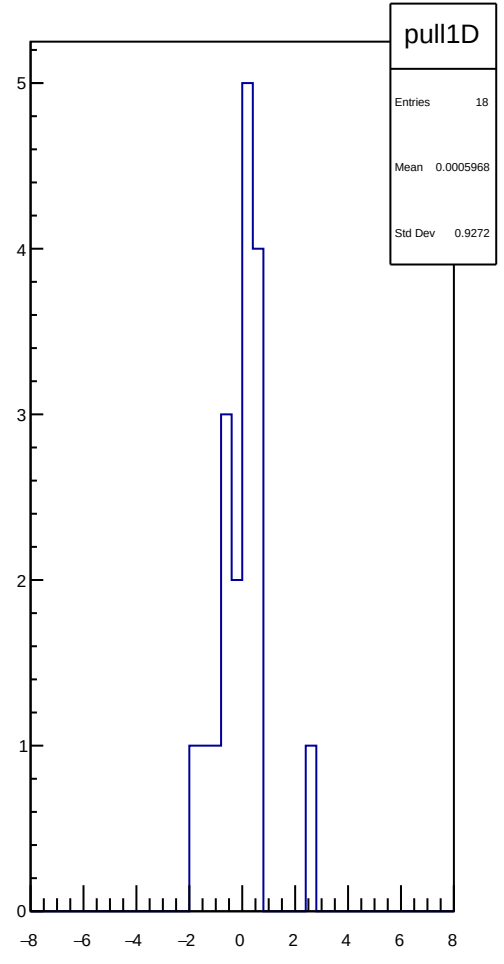

asym_sam_26_avg_correction_rms vs run
χ² / ndf 214.4 / 17
p0 1944 ± 3.373
2050
2000
1950
1900
1850
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

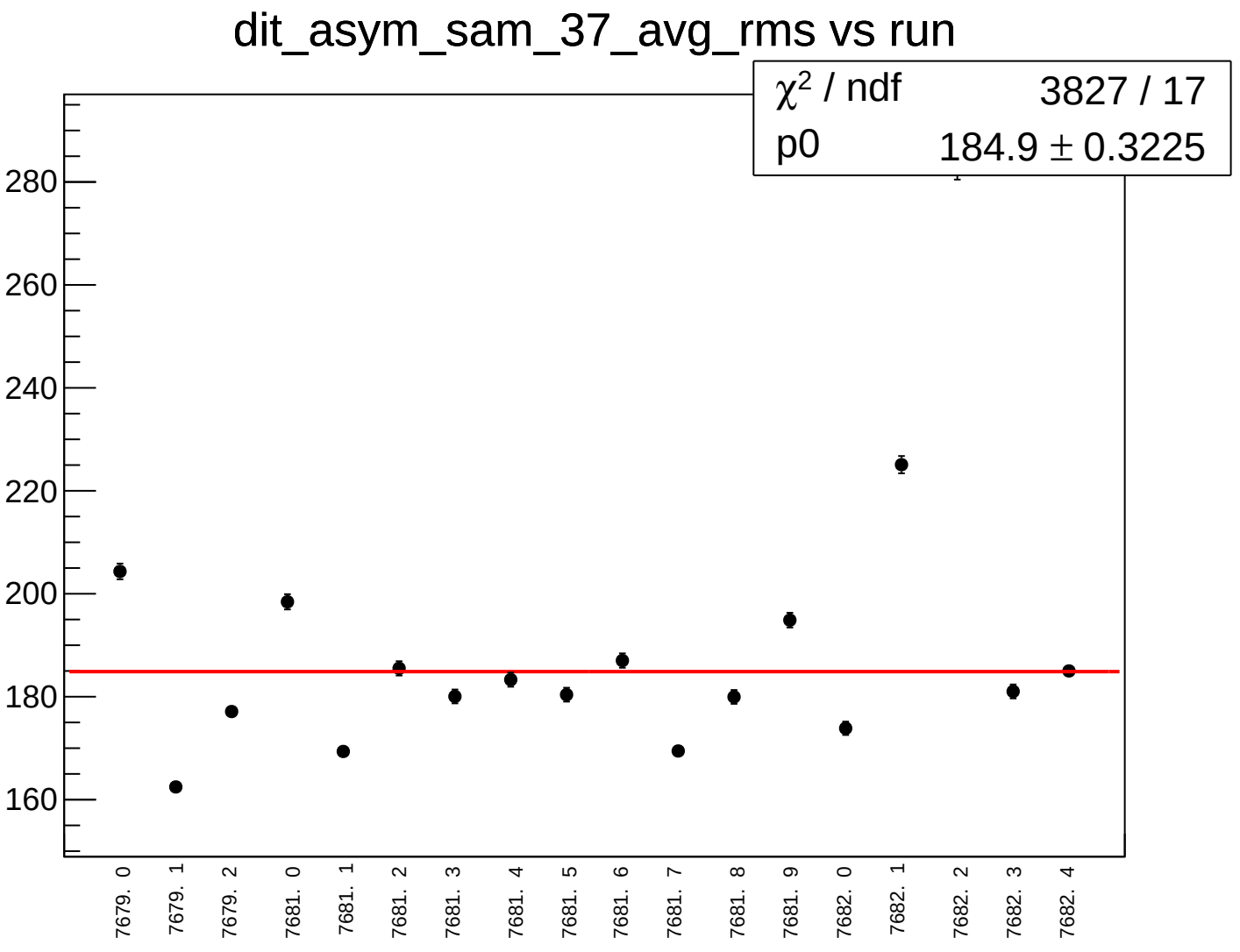

asym_sam_26_avg_mean vs run
χ² / ndf 19.07 / 17
p0 −5774 ± 4901
60000
40000
20000
0
−20000
−40000
−60000
−80000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 46.15
Std Dev 43.23
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

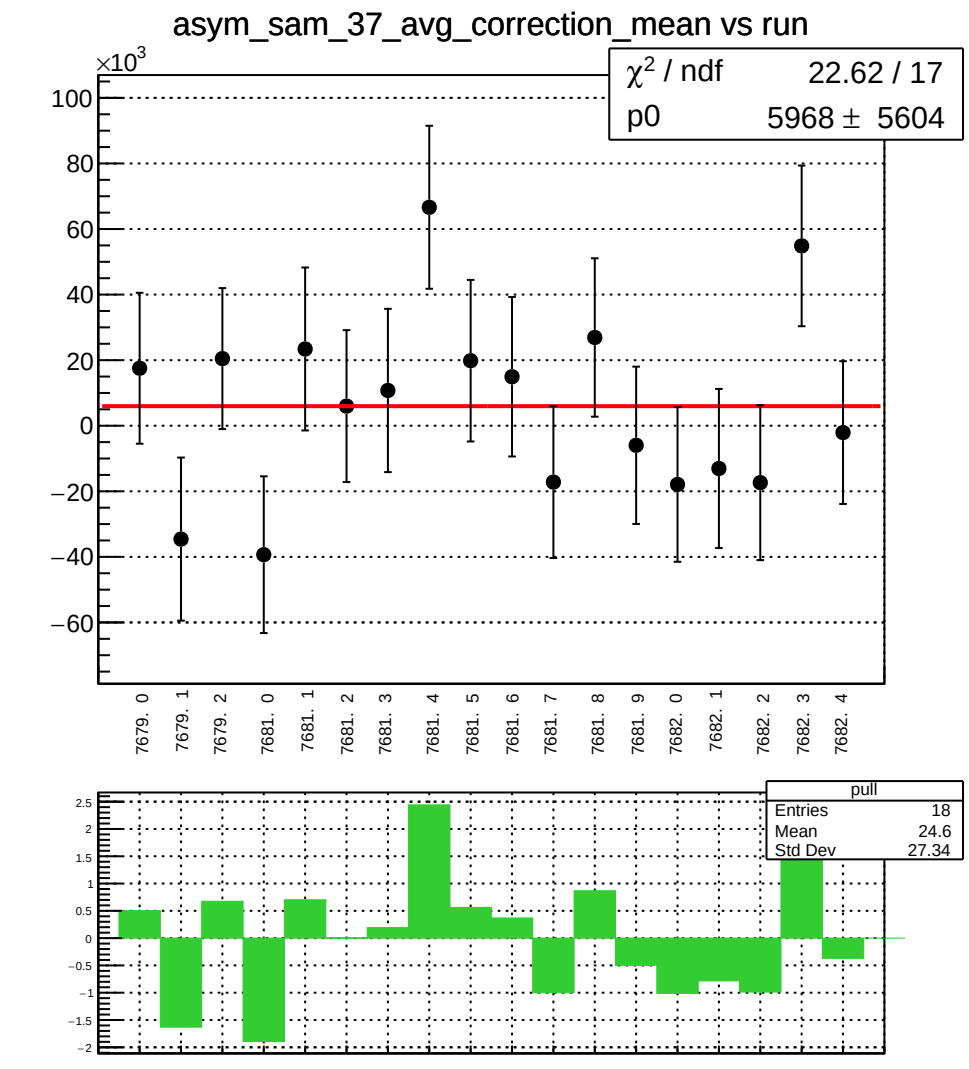

pull1D
Entries 18
Mean −0.006616
Std Dev 1.029
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

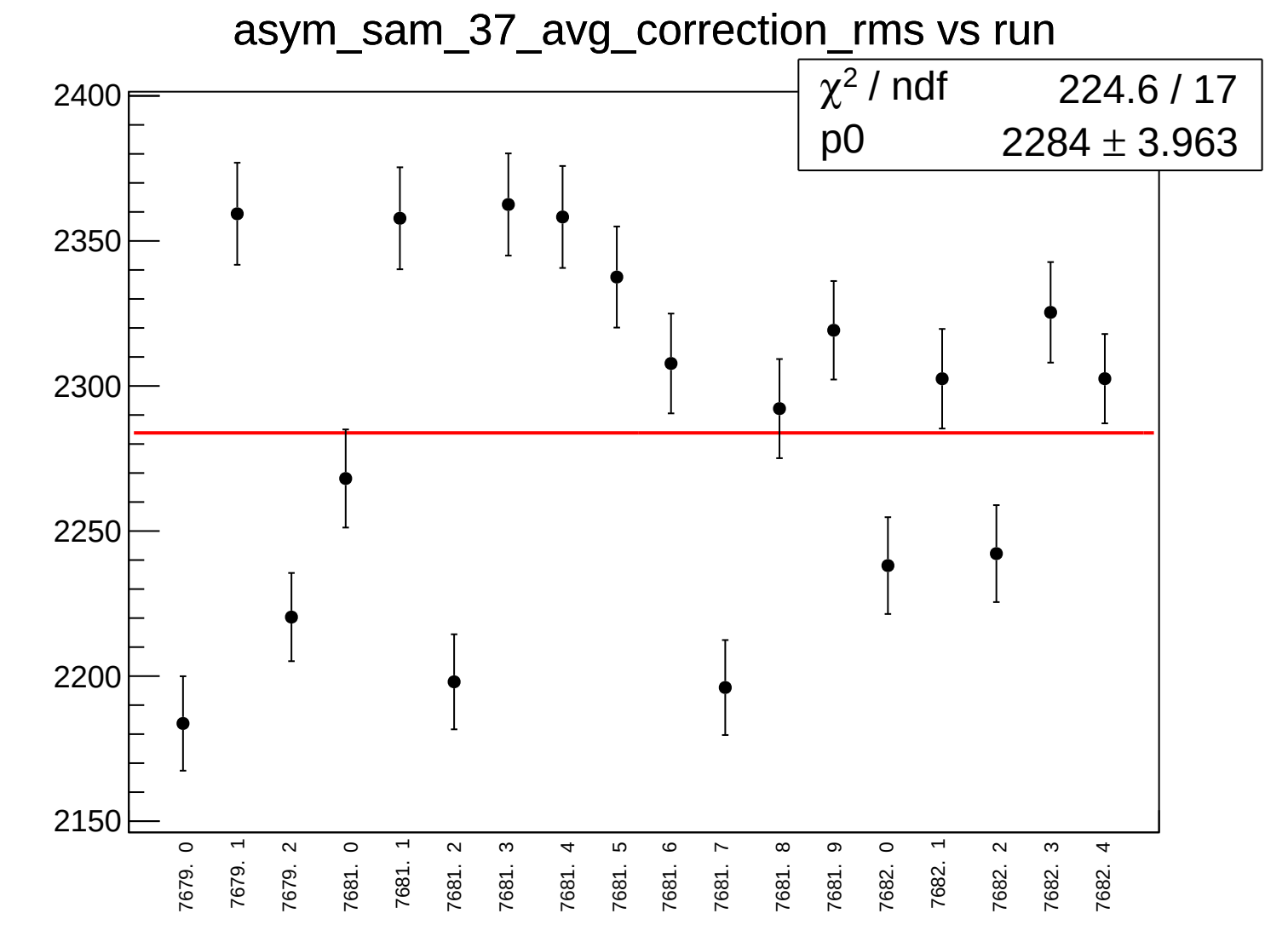

asym_sam_26_avg_rms vs run
χ² / ndf 171 / 17
p0 1998 ± 3.466
2080
2060
2040
2020
2000
1980
1960
1940
1920
1900
1880
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

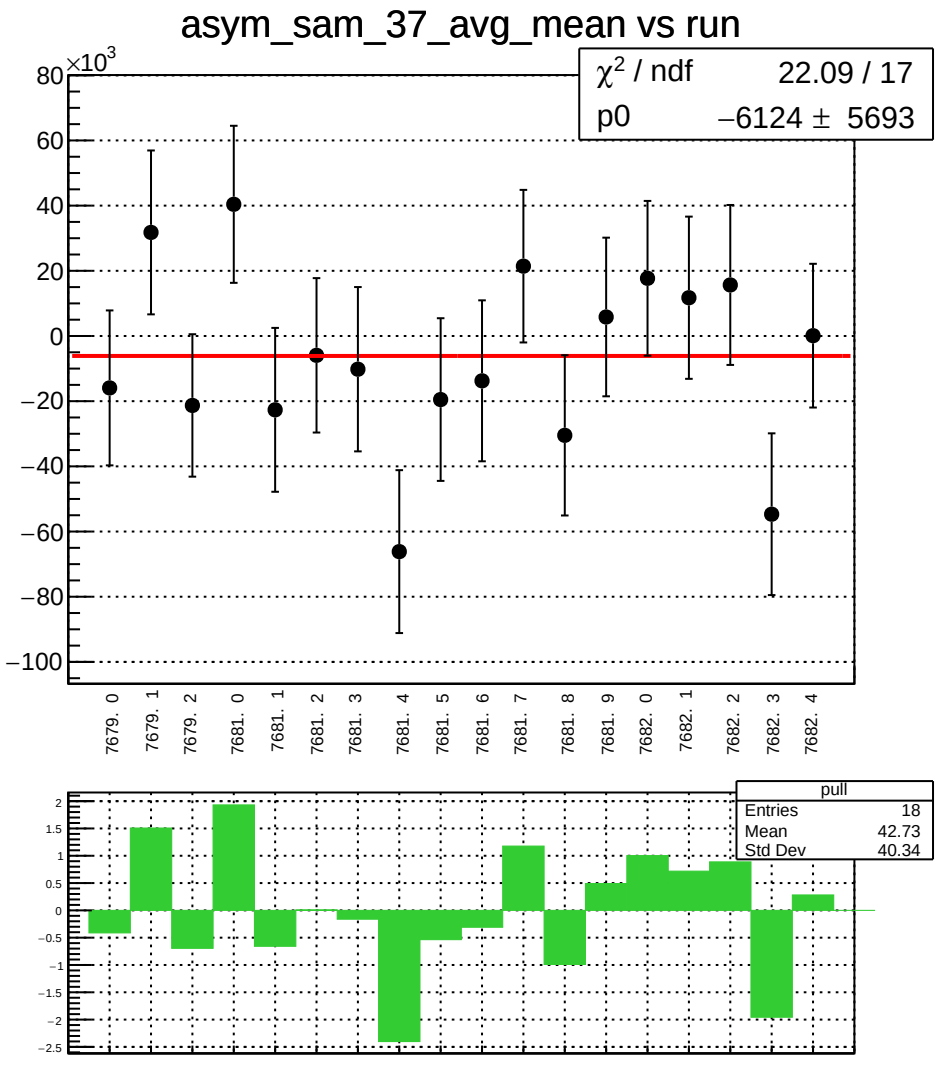

dit_asym_sam_37_avg_mean vs run
χ² / ndf 15.48 / 17
p0 −102 ± 456.1
6000
4000
2000
0
−2000
−4000
−6000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −1334
Std Dev 1348
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

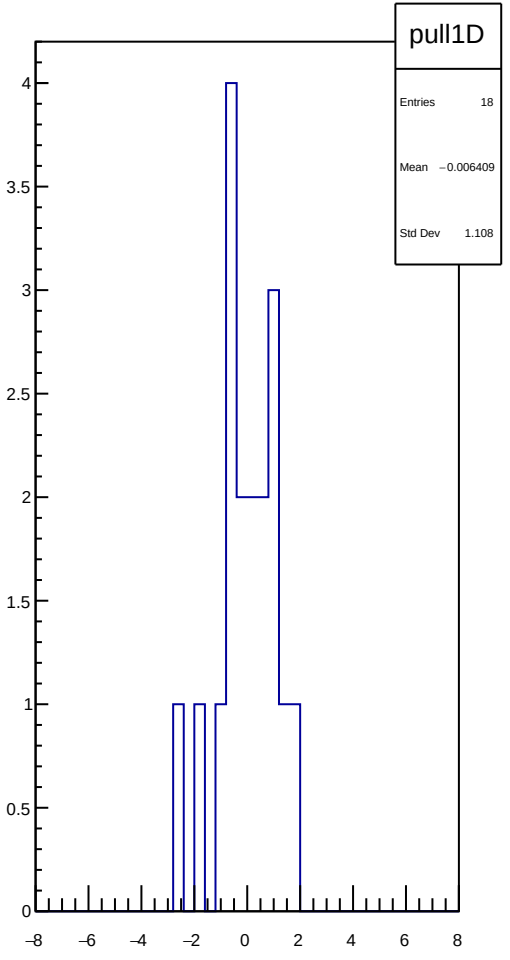

pull1D
Entries 18
Mean 0.0005968
Std Dev 0.9272
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

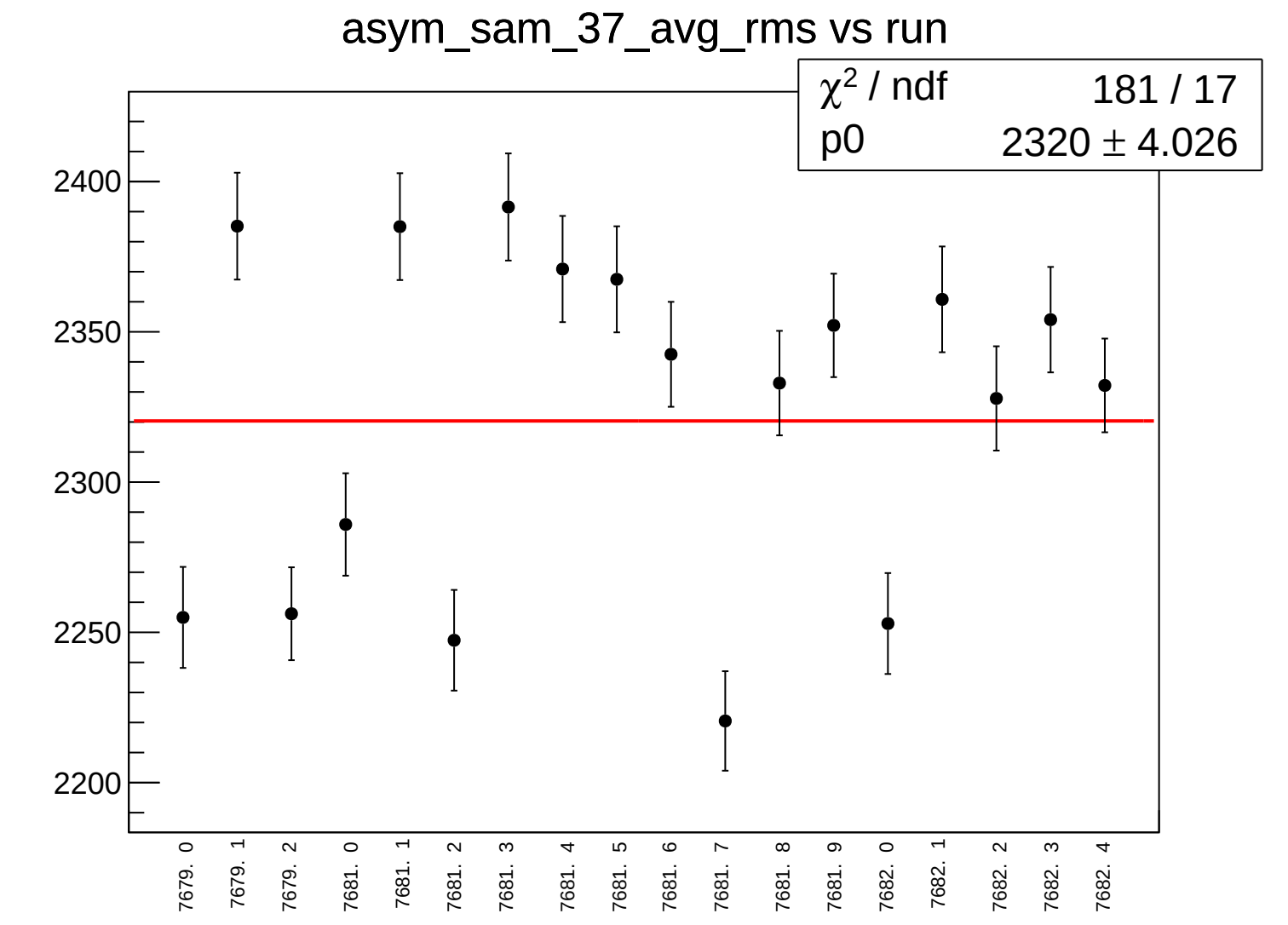

dit_asym_sam_37_avg_rms vs run
χ² / ndf 3827 / 17
p0 184.9 ± 0.3225
280
260
240
220
200
180
160
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

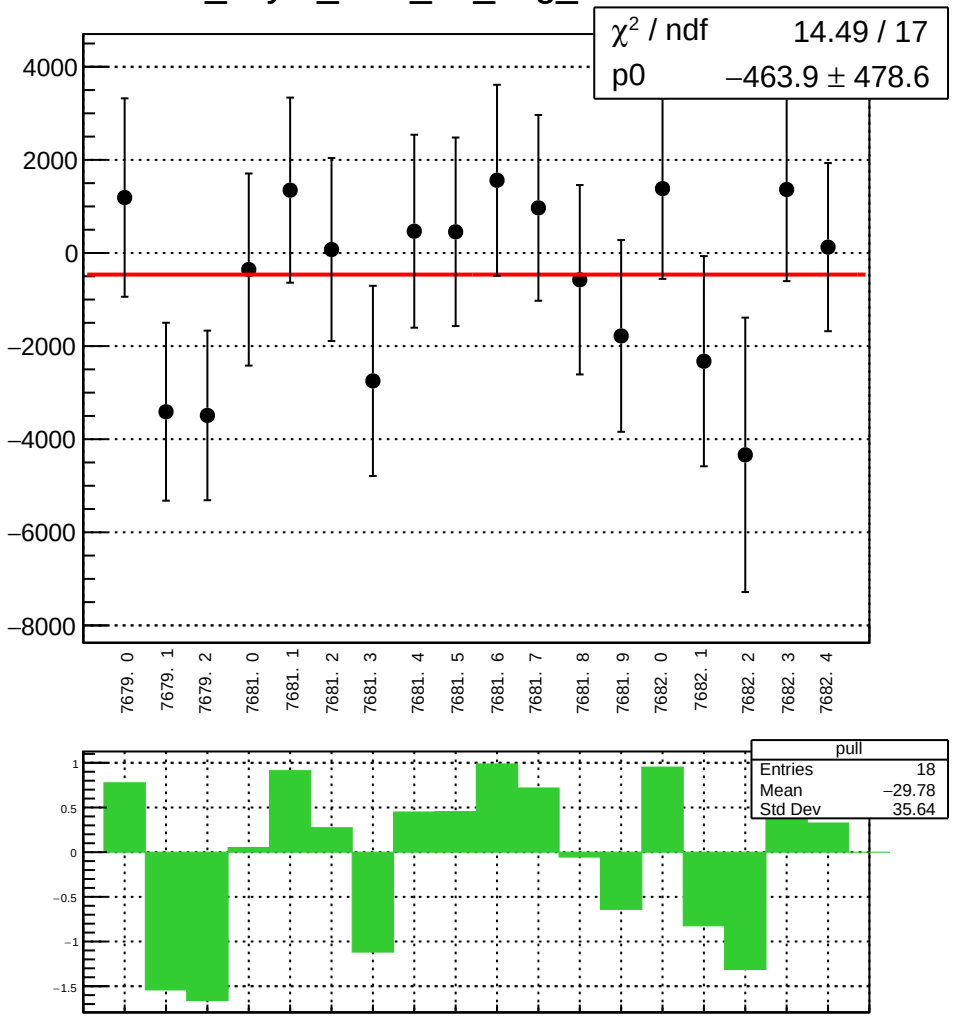

asym_sam_37_avg_correction_mean vs run
×10^3
χ² / ndf 22.62 / 17
p0 5968 ± 5604
100
80
60
40
20
0
−20
−40
−60
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 24.6
Std Dev 27.34
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 18
Mean 0.007313
Std Dev 1.121
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

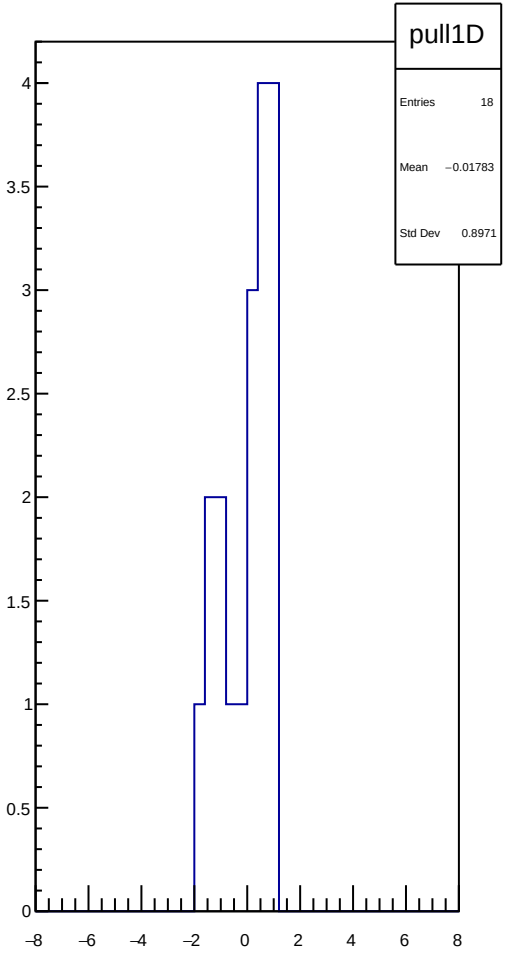

asym_sam_37_avg_correction_rms vs run
χ² / ndf 224.6 / 17
p0 2284 ± 3.963
2400
2350
2300
2250
2200
2150
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

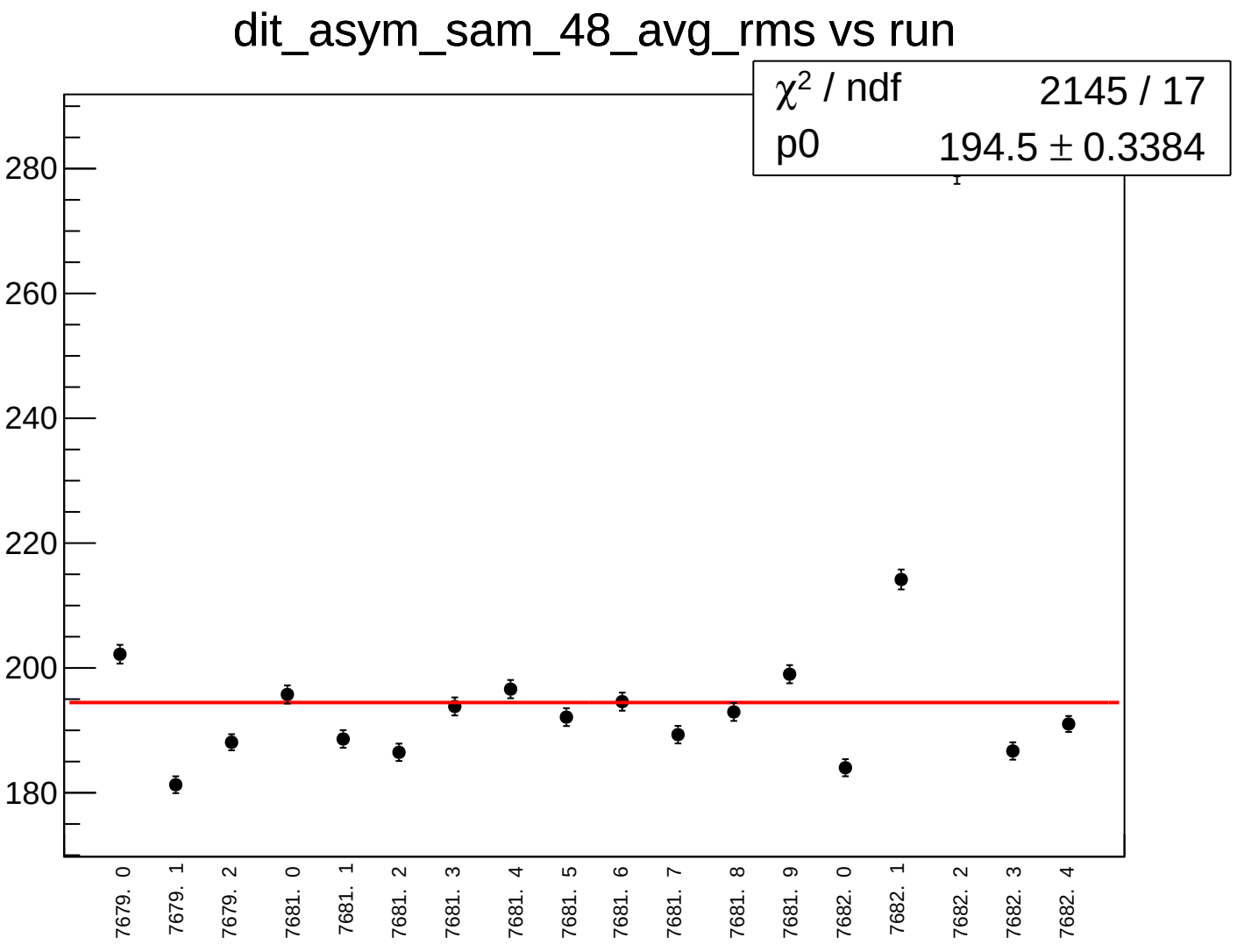

asym_sam_37_avg_mean vs run
χ² / ndf 22.09 / 17
p0 −6124 ± 5693
×10³
80
60
40
20
0
−20
−40
−60
−80
−100
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 42.73
Std Dev 40.34
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

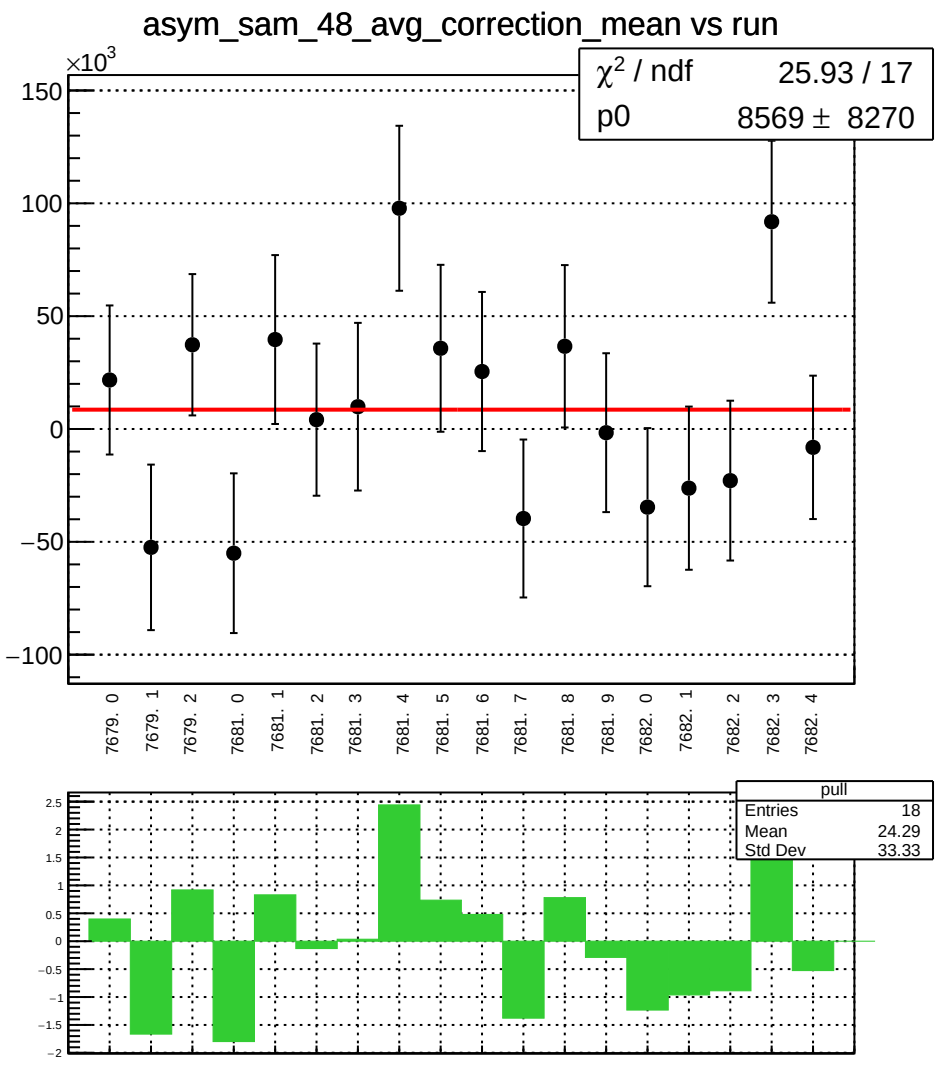

pull1D
Entries 18
Mean −0.006409
Std Dev 1.108
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

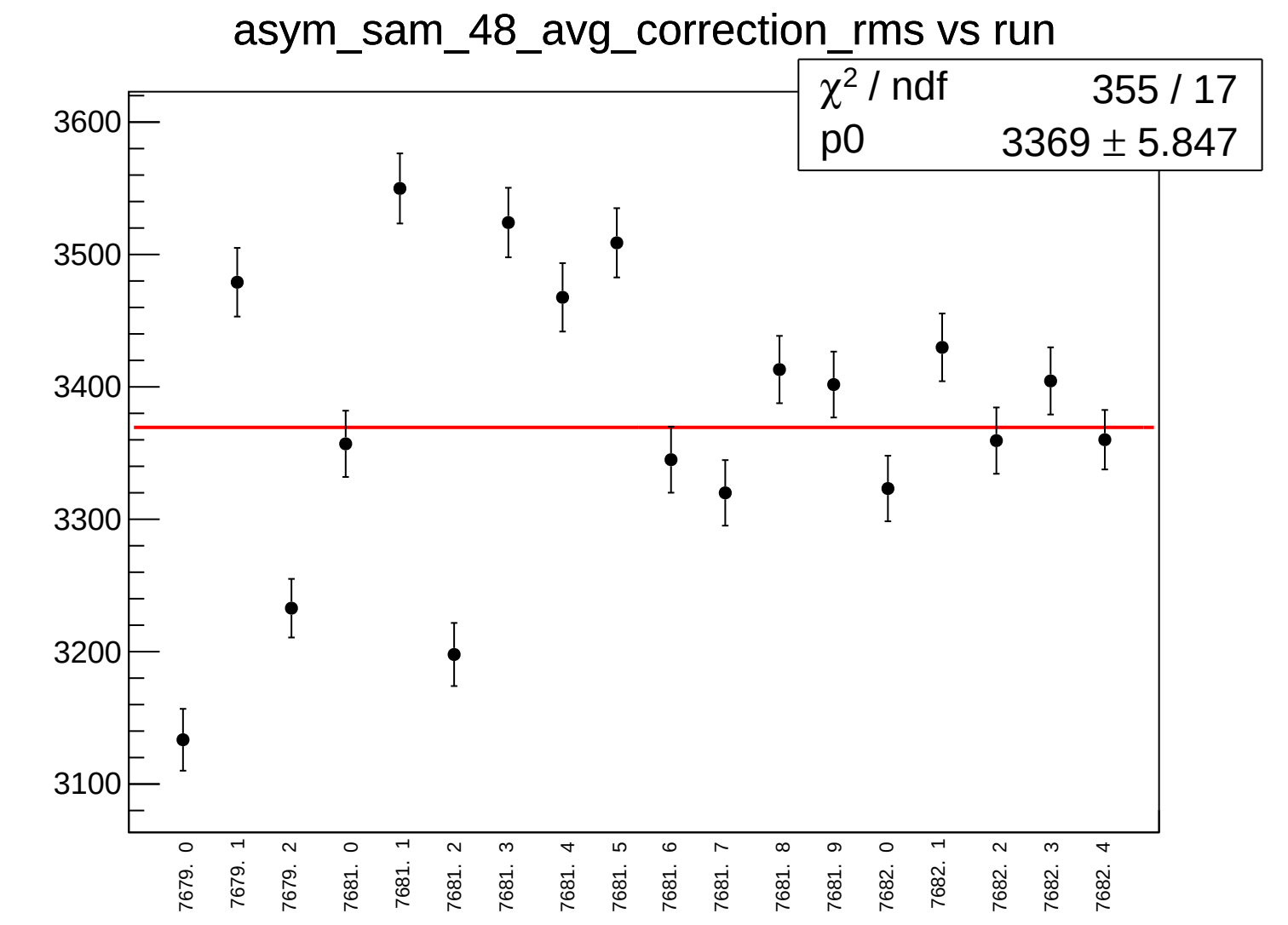

asym_sam_37_avg_rms vs run
χ² / ndf 181 / 17
p0 2320 ± 4.026
2400
2350
2300
2250
2200
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

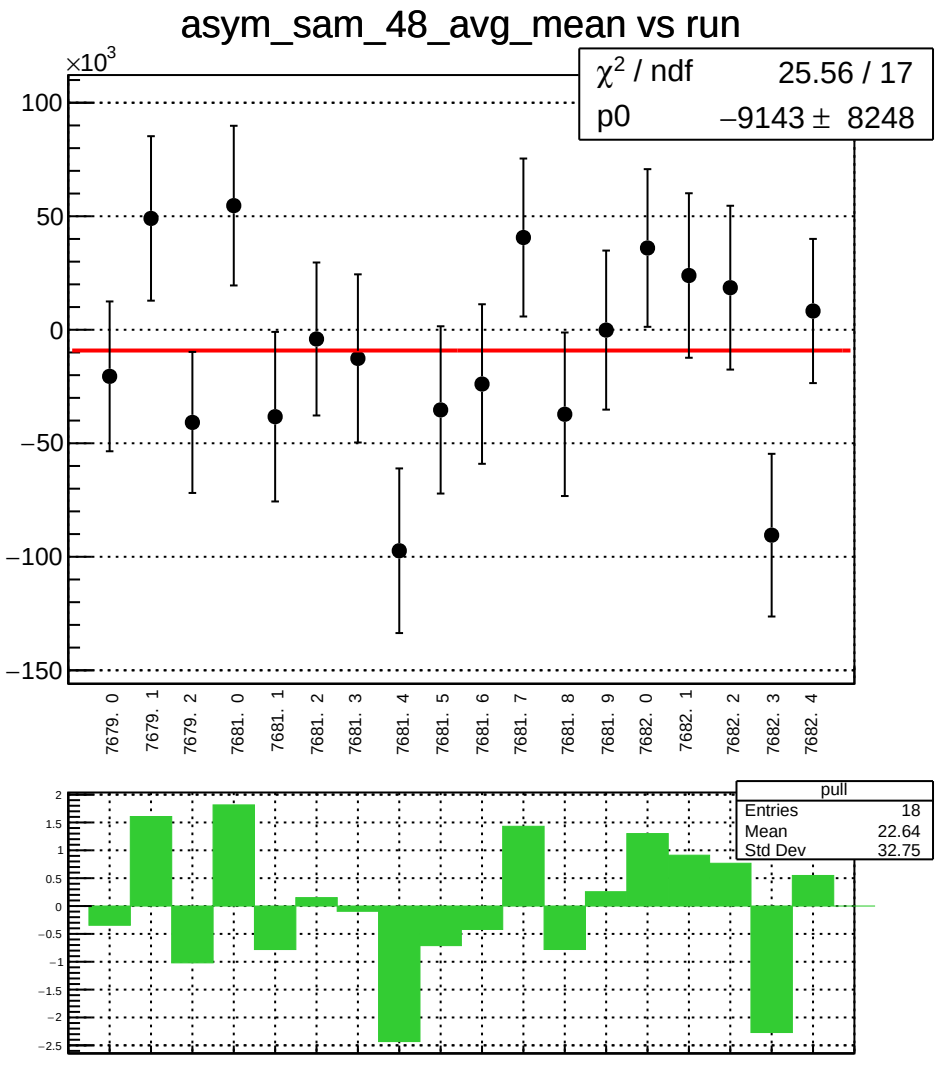

dit_asym_sam_48_avg_mean vs run
χ² / ndf 14.49 / 17
p0 −463.9 ± 478.6
4000
2000
0
−2000
−4000
−6000
−8000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −29.78
Std Dev 35.64
1
0.5
0
−0.5
−1
−1.5

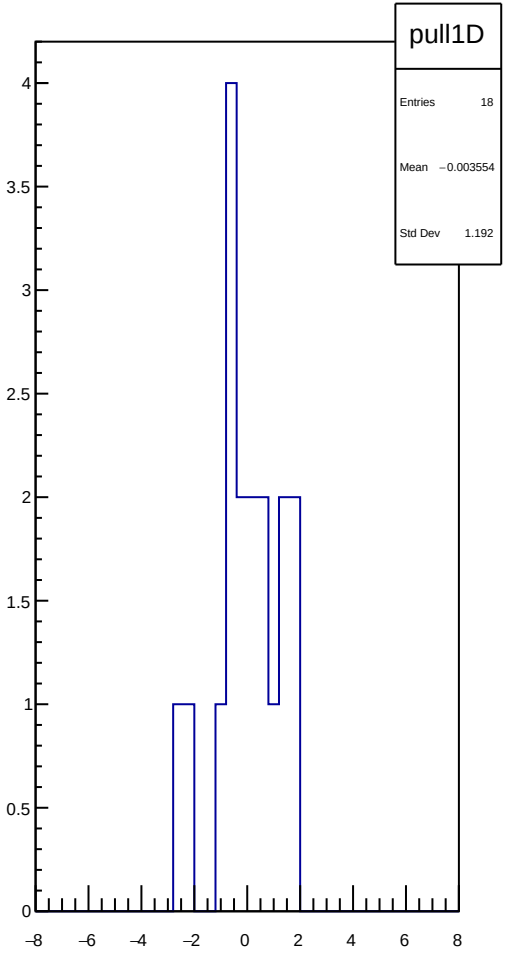

pull1D
Entries 18
Mean −0.01783
Std Dev 0.8971
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

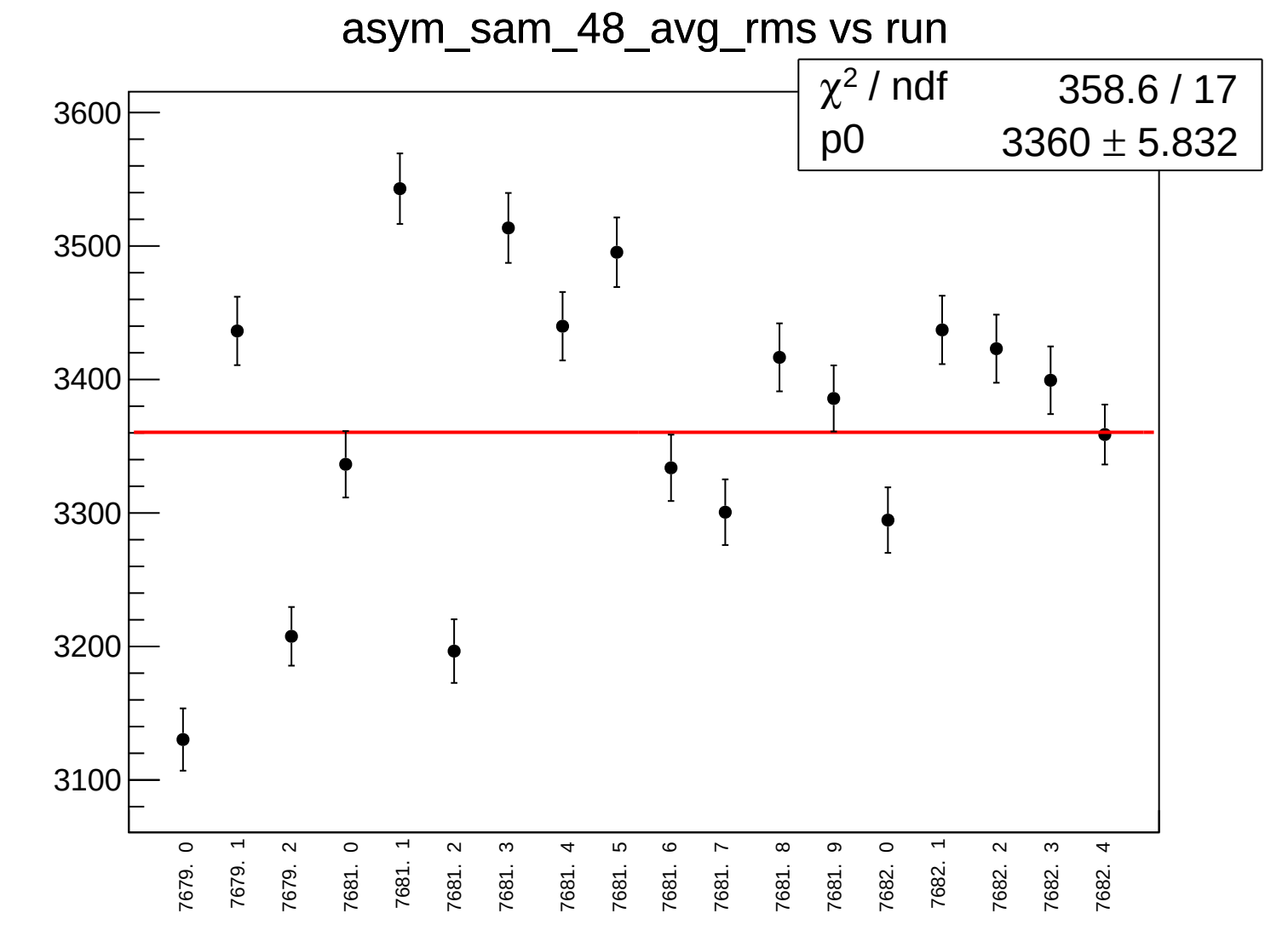

dit_asym_sam_48_avg_rms vs run
χ^2 / ndf 2145 / 17
p0 194.5 ± 0.3384
280
260
240
220
200
180
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

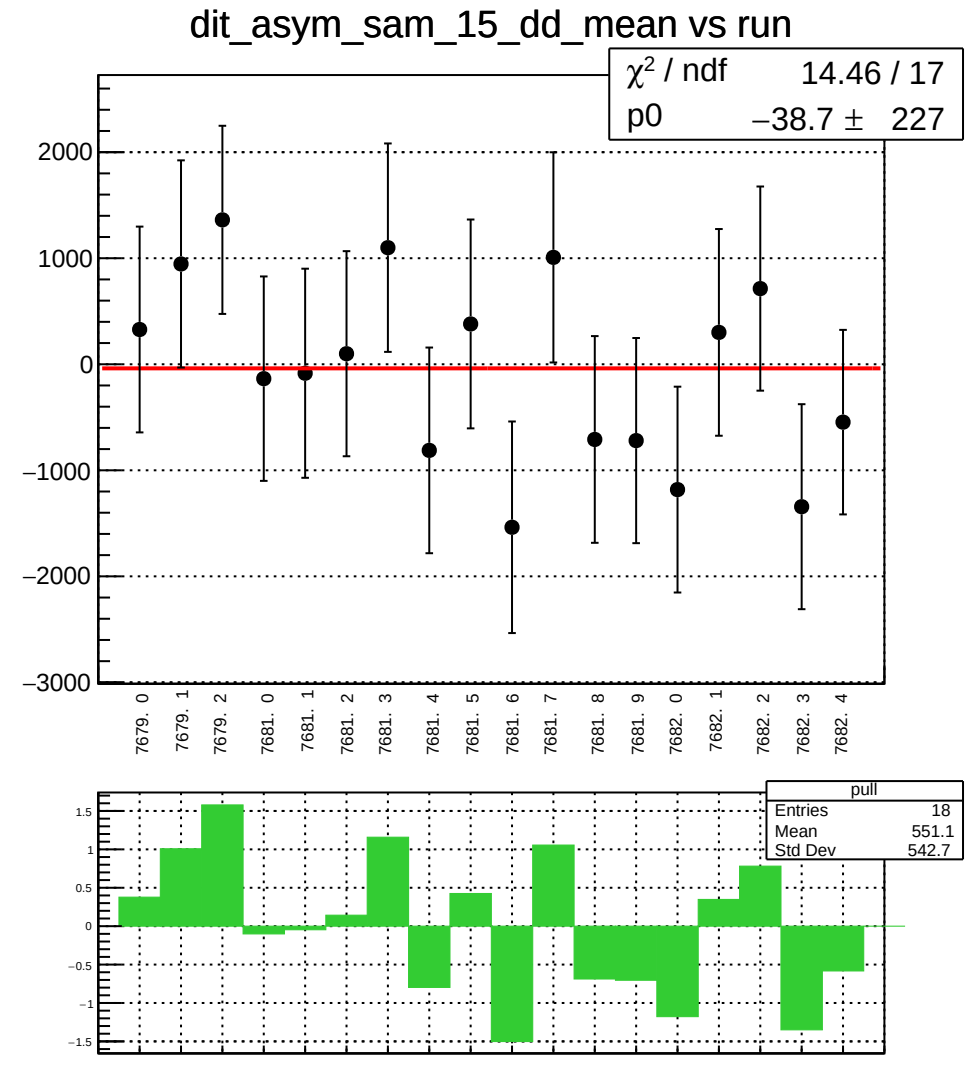

asym_sam_48_avg_correction_mean vs run
×10^3
χ² / ndf 25.93 / 17
p0 8569 ± 8270
150
100
50
0
−50
−100
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 24.29
Std Dev 33.33
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 18
Mean 0.003803
Std Dev 1.2
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

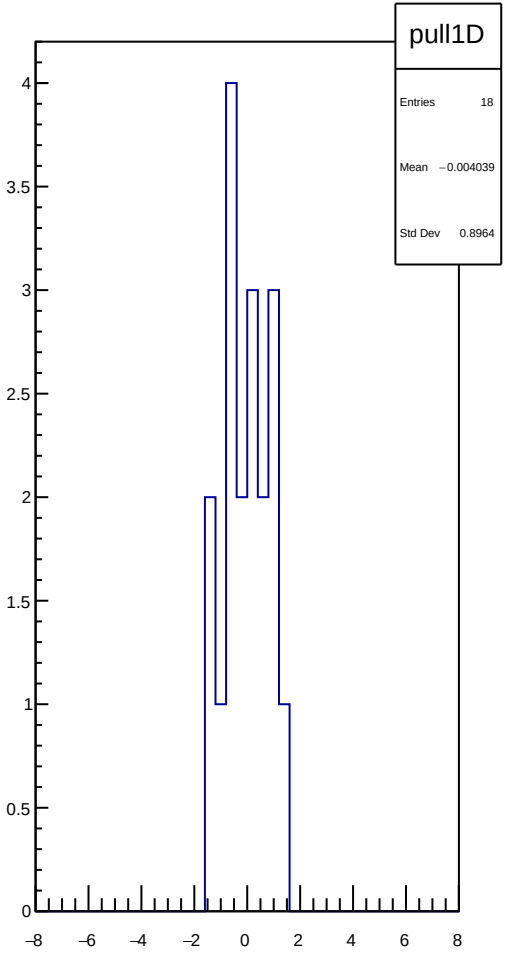

asym_sam_48_avg_correction_rms vs run
χ² / ndf 355 / 17
p0 3369 ± 5.847
3600
3500
3400
3300
3200
3100
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

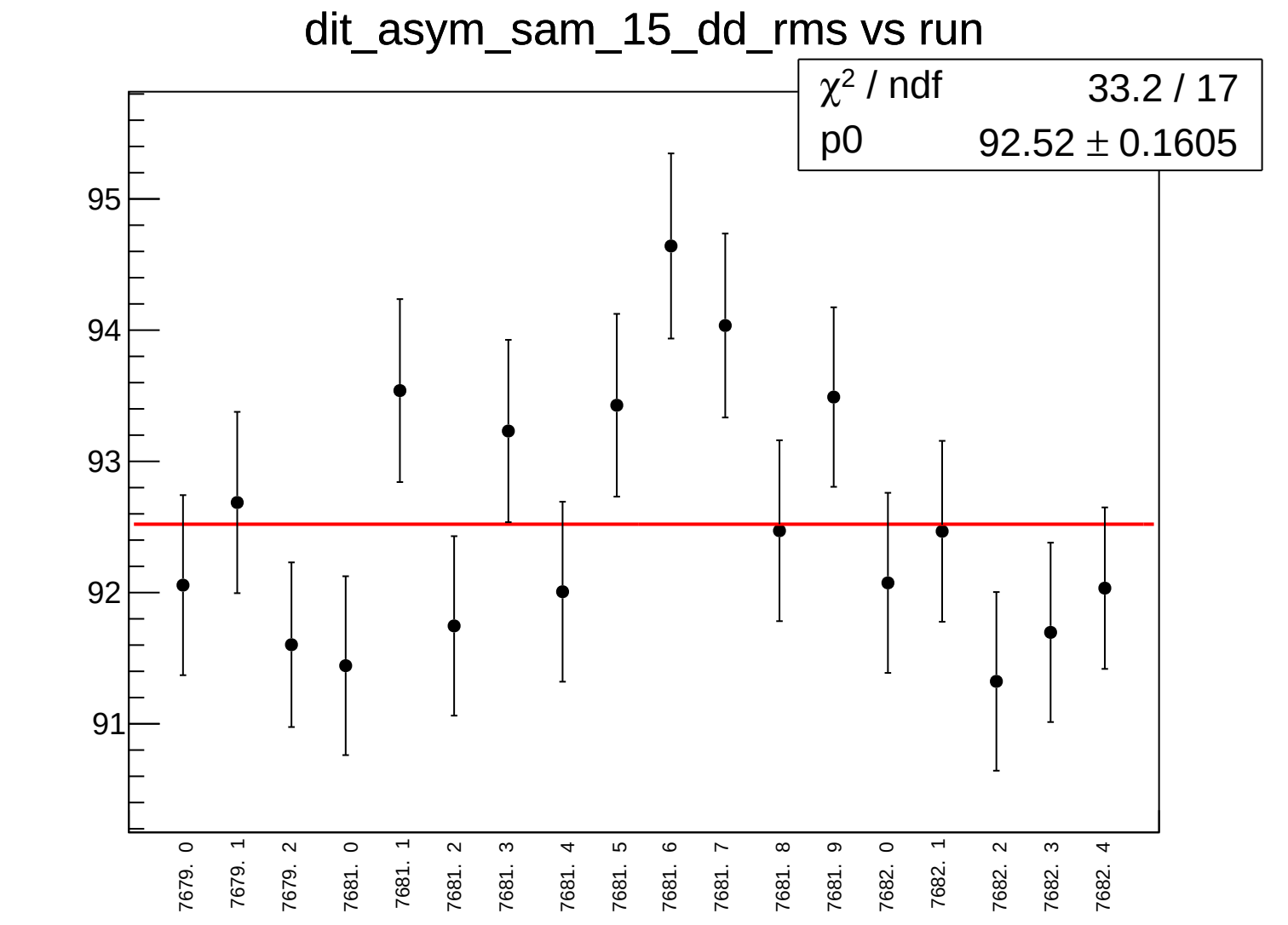

asym_sam_48_avg_mean vs run
×10^3
χ^2 / ndf 25.56 / 17
p0 −9143 ± 8248
100
50
0
−50
−100
−150
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 22.64
Std Dev 32.75
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

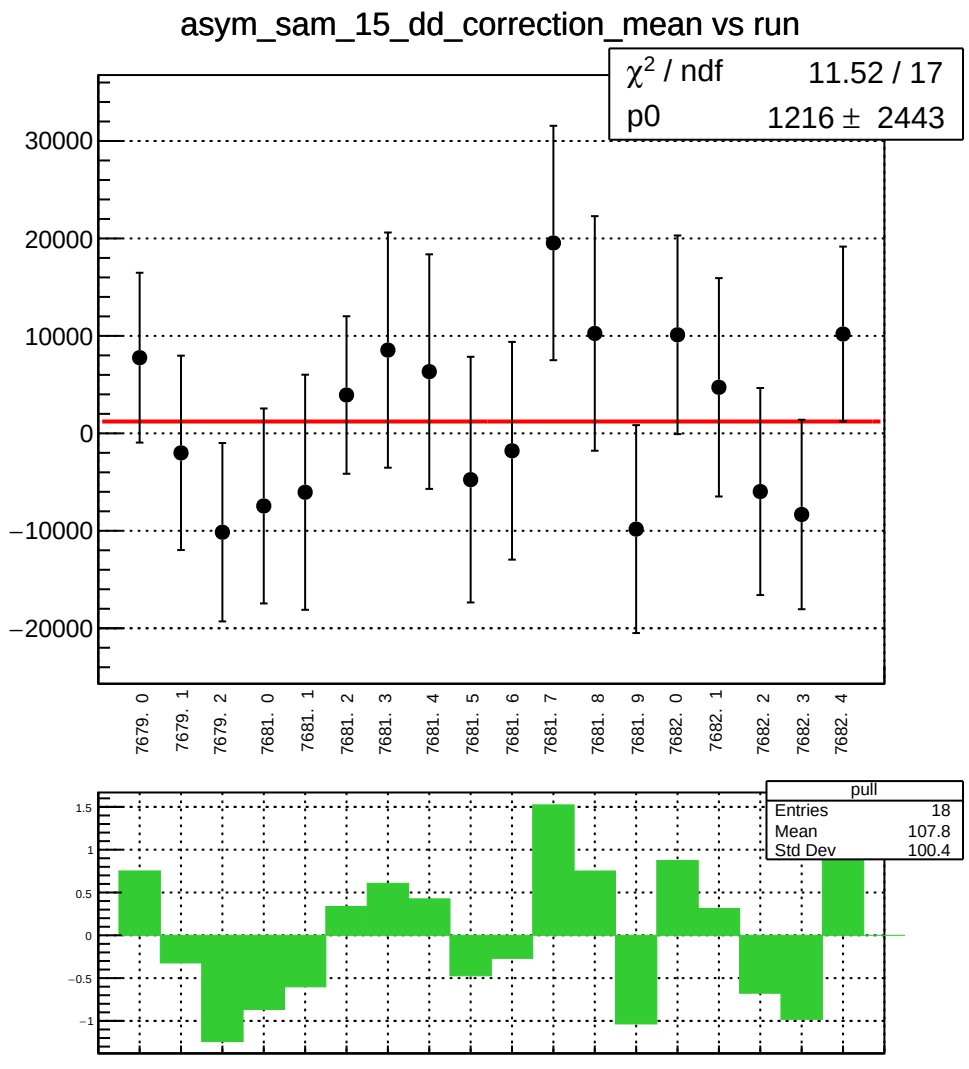

pull1D
Entries 18
Mean −0.003554
Std Dev 1.192
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

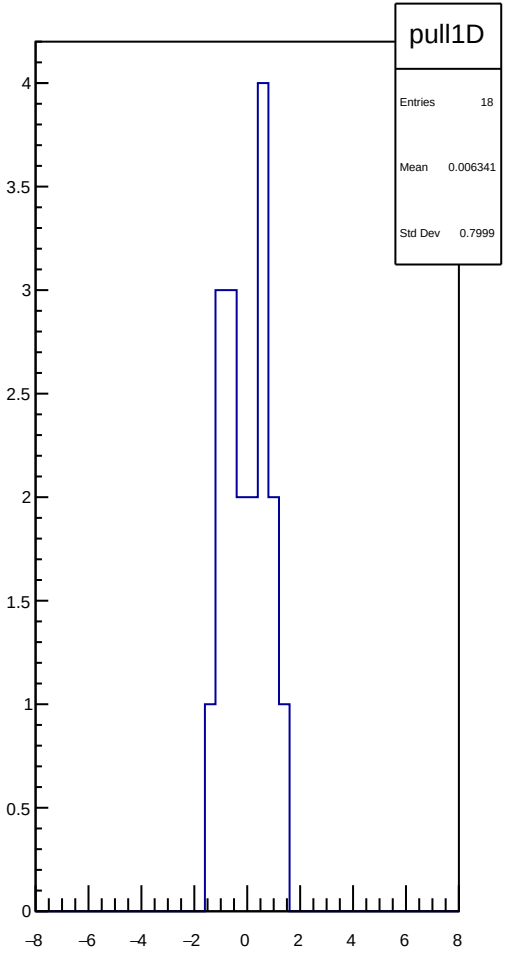

asym_sam_48_avg_rms vs run
χ² / ndf 358.6 / 17
p0 3360 ± 5.832
3600
3500
3400
3300
3200
3100
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

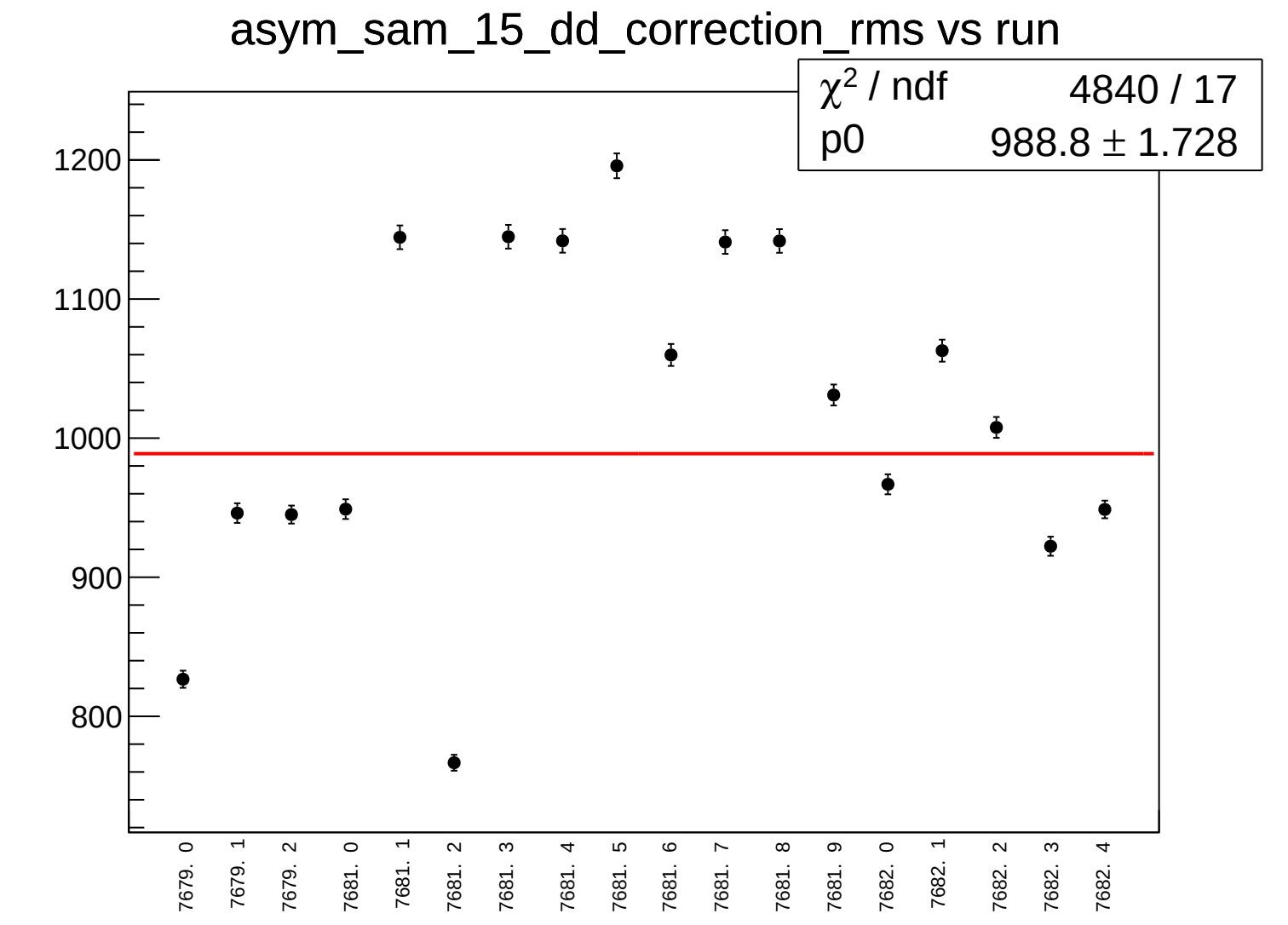

dit_asym_sam_15_dd_mean vs run
χ² / ndf 14.46 / 17
p0 −38.7 ± 227
2000
1000
0
−1000
−2000
−3000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 551.1
Std Dev 542.7
1.5
1
0.5
0
−0.5
−1
−1.5

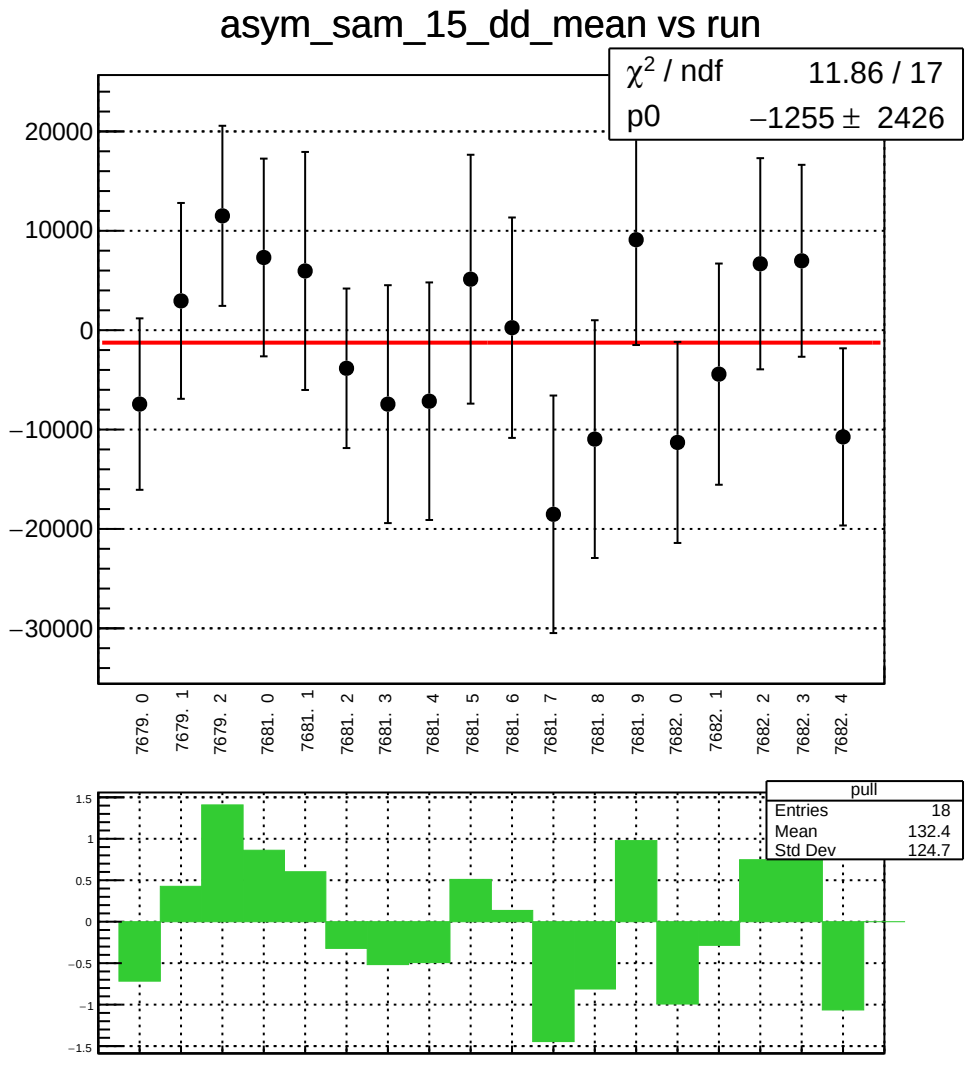

pull1D
Entries 18
Mean −0.004039
Std Dev 0.8964
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

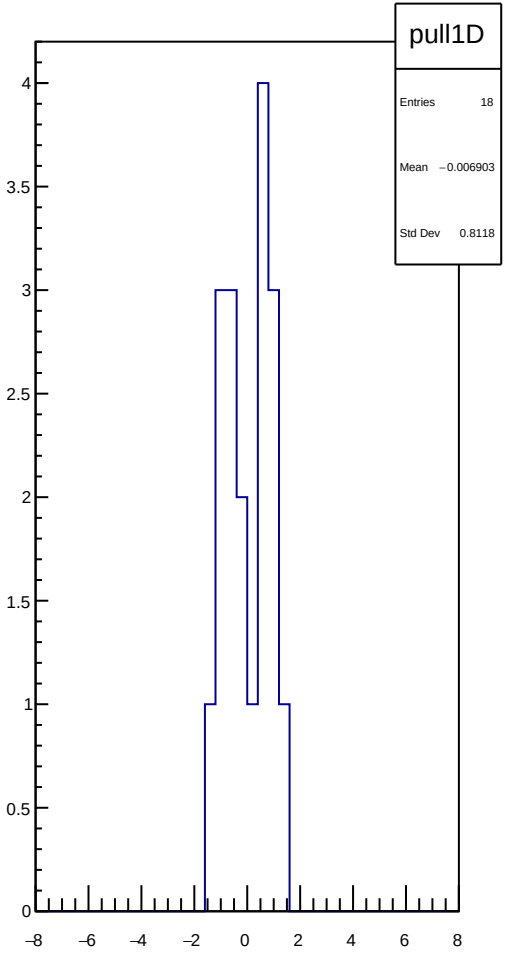

dit_asym_sam_15_dd_rms vs run
χ² / ndf 33.2 / 17
p0 92.52 ± 0.1605
95
94
93
92
91
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

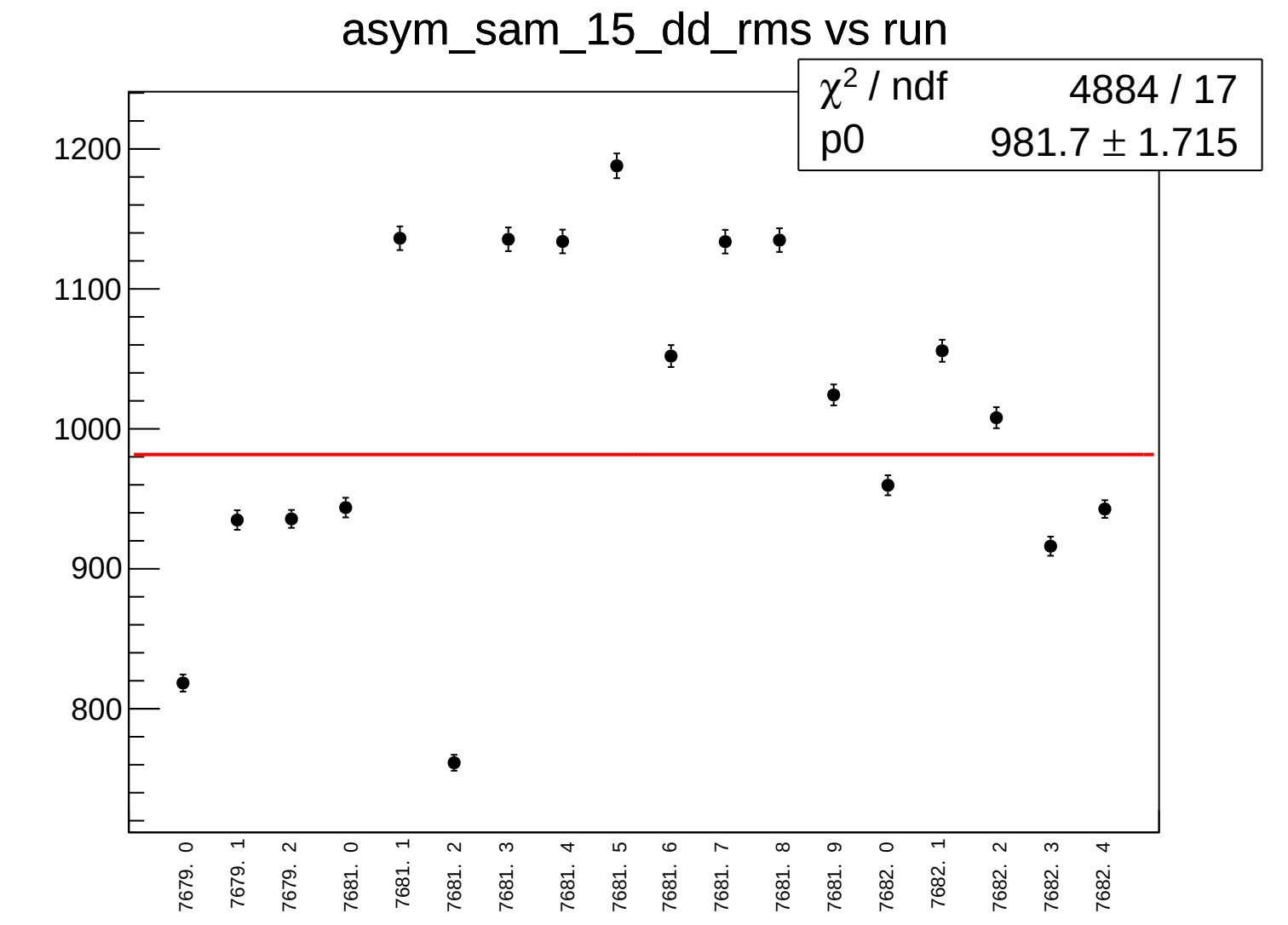

asym_sam_15_dd_correction_mean vs run
χ² / ndf 11.52 / 17
p0 1216 ± 2443
30000
20000
10000
0
−10000
−20000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 107.8
Std Dev 100.4
1.5
1
0.5
0
−0.5
−1

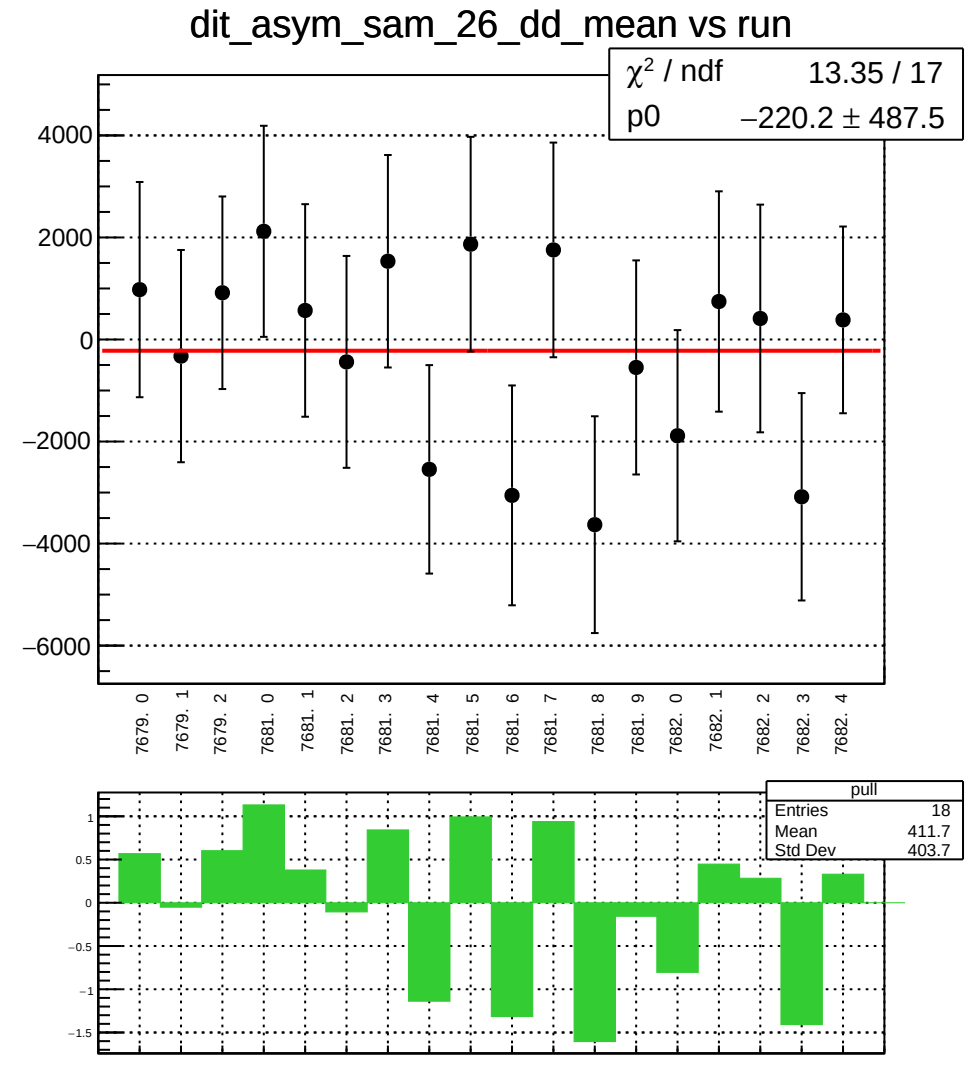

pull1D
Entries 18
Mean 0.006341
Std Dev 0.7999
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

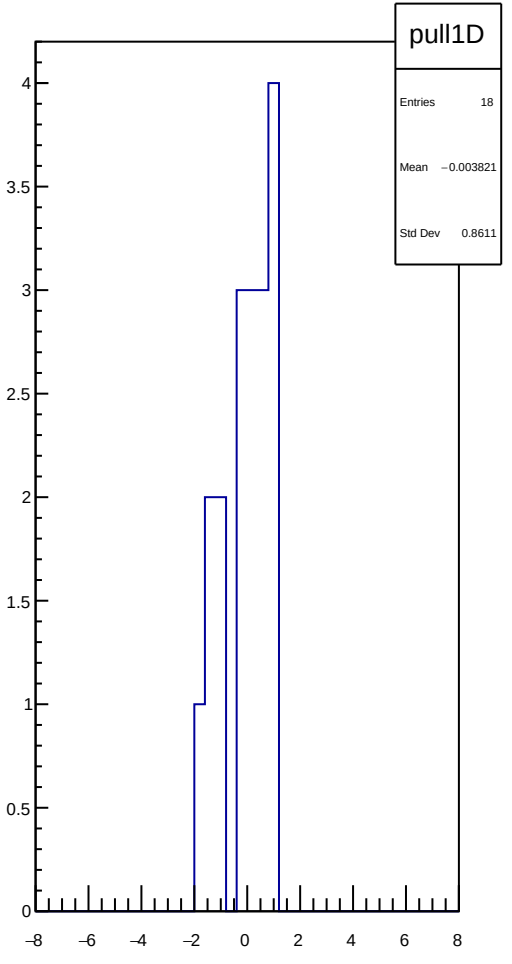

asym_sam_15_dd_correction_rms vs run
χ² / ndf 4840 / 17
p0 988.8 ± 1.728
1200
1100
1000
900
800
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

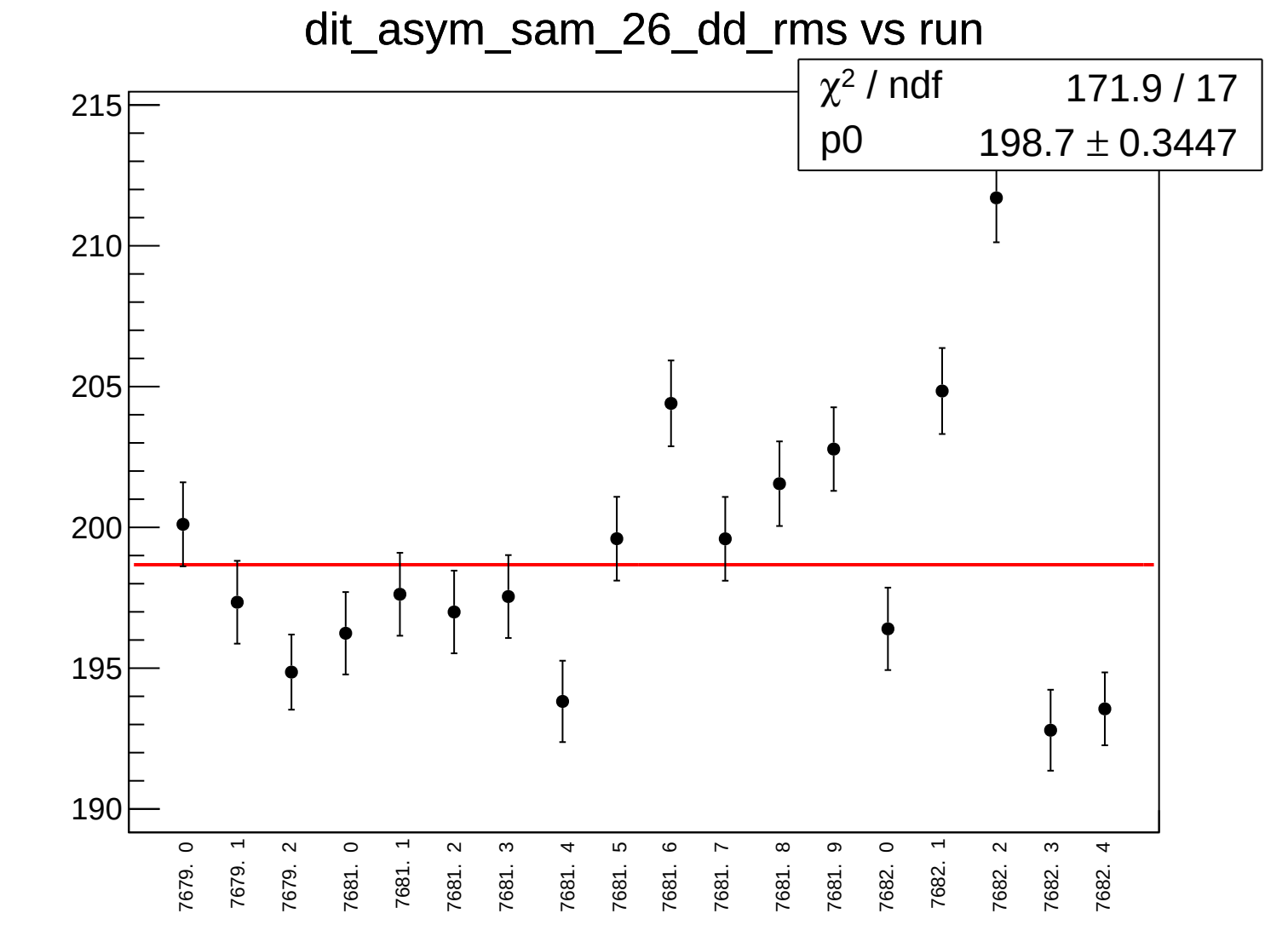

asym_sam_15_dd_mean vs run
χ² / ndf 11.86 / 17
p0 −1255 ± 2426
20000
10000
0
−10000
−20000
−30000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 132.4
Std Dev 124.7
1.5
1
0.5
0
−0.5
−1
−1.5

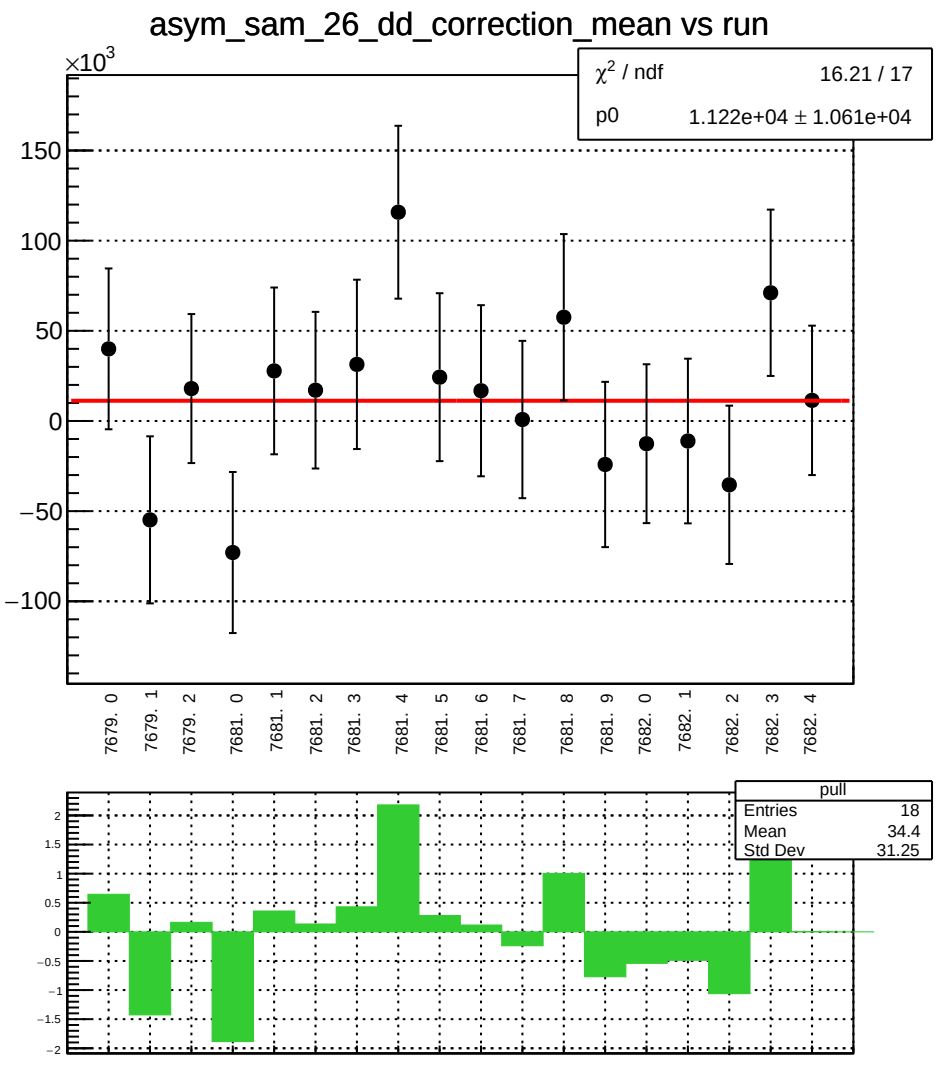

pull1D
Entries 18
Mean −0.006903
Std Dev 0.8118
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

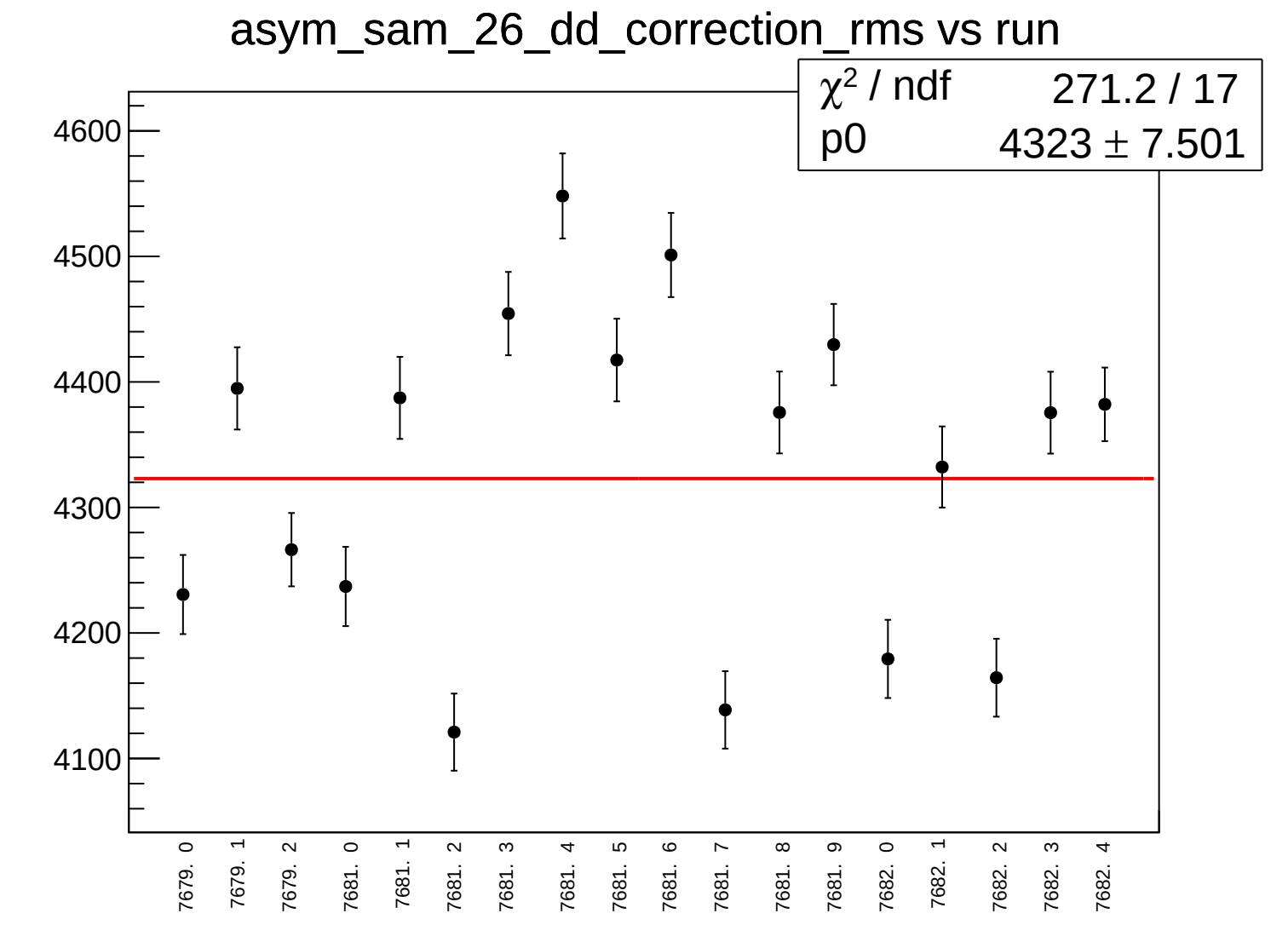

asym_sam_15_dd_rms vs run
χ² / ndf 4884 / 17
p0 981.7 ± 1.715
1200
1100
1000
900
800
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

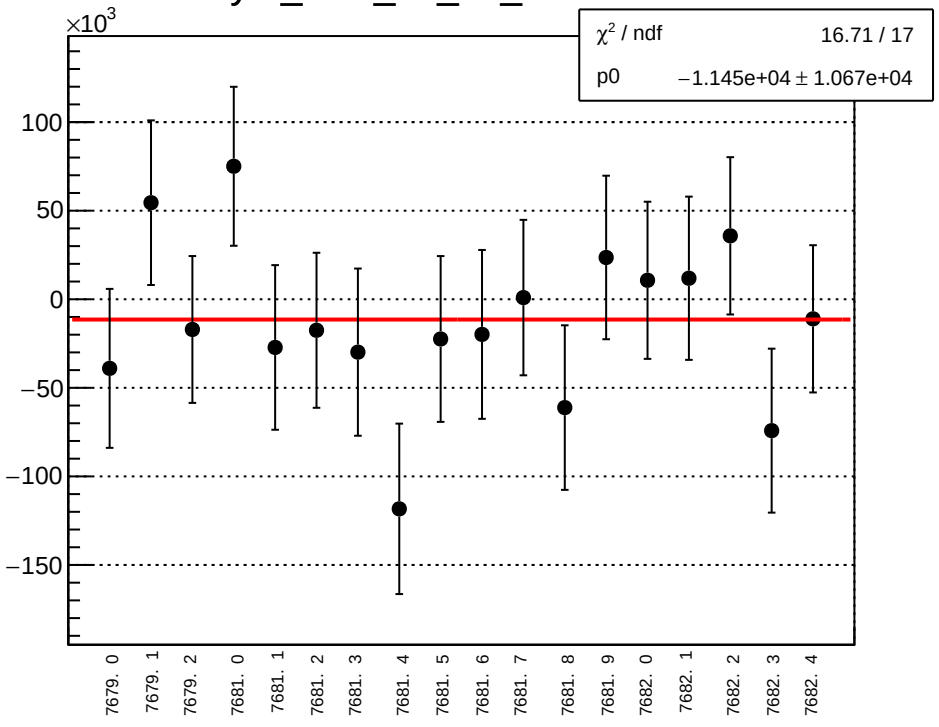

dit_asym_sam_26_dd_mean vs run
χ² / ndf 13.35 / 17
p0 −220.2 ± 487.5
4000
2000
0
−2000
−4000
−6000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 411.7
Std Dev 403.7
1
0.5
0
−0.5
−1
−1.5

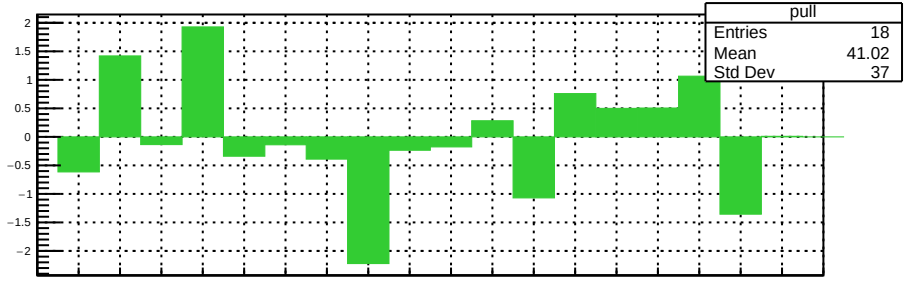

pull1D
Entries 18
Mean −0.003821
Std Dev 0.8611
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

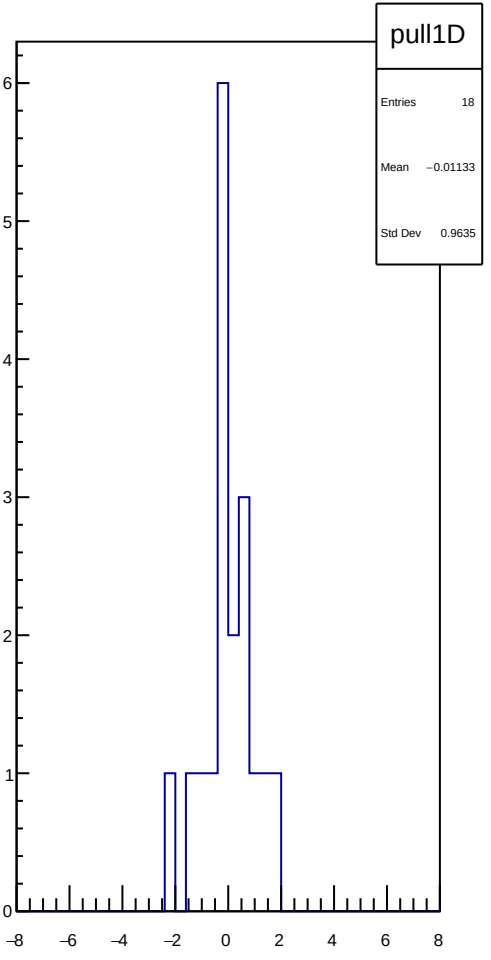

dit_asym_sam_26_dd_rms vs run
χ² / ndf 171.9 / 17
p0 198.7 ± 0.3447
215
210
205
200
195
190
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

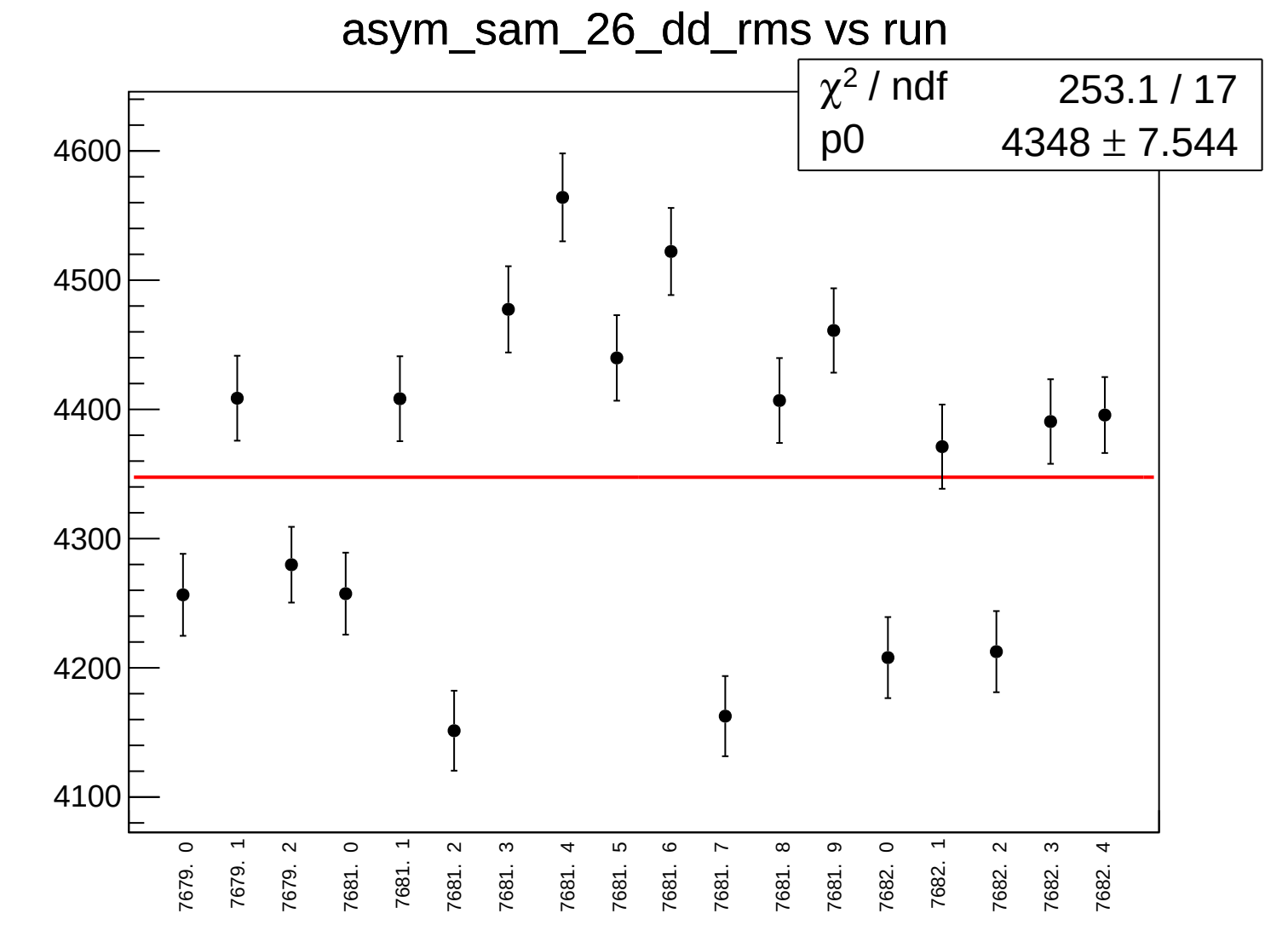

asym_sam_26_dd_correction_mean vs run
×10^3
χ² / ndf 16.21 / 17
p0 1.122e+04 ± 1.061e+04
150
100
50
0
−50
−100
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 34.4
Std Dev 31.25
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 18
Mean 0.0114
Std Dev 0.949
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

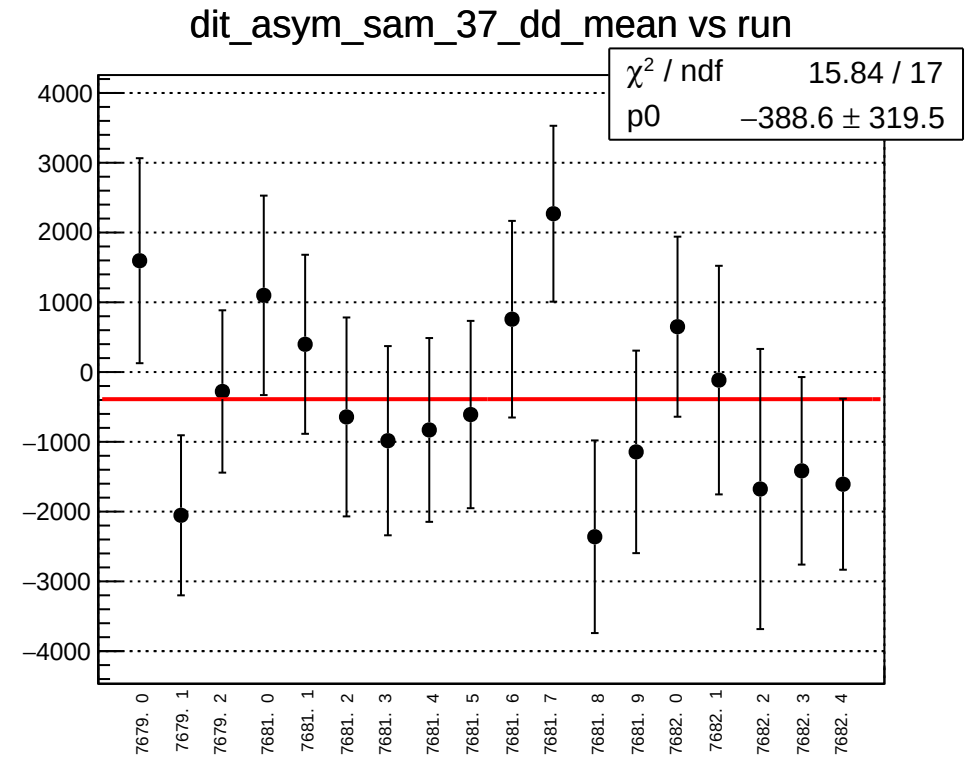

asym_sam_26_dd_correction_rms vs run
χ² / ndf 271.2 / 17
p0 4323 ± 7.501
4600
4500
4400
4300
4200
4100
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

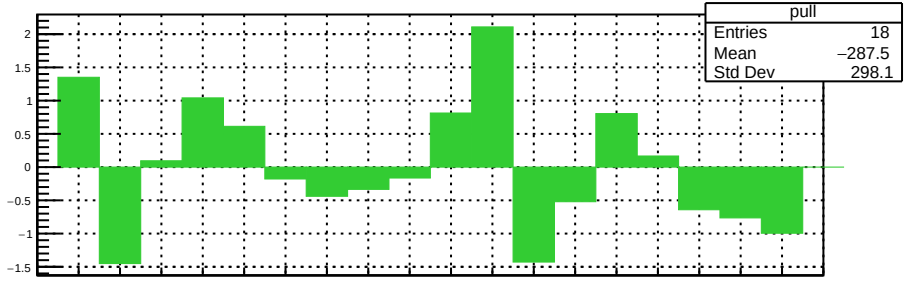

asym_sam_26_dd_mean vs run
×10^3
χ² / ndf 16.71 / 17
p0 −1.145e+04 ± 1.067e+04
100
50
0
−50
−100
−150
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

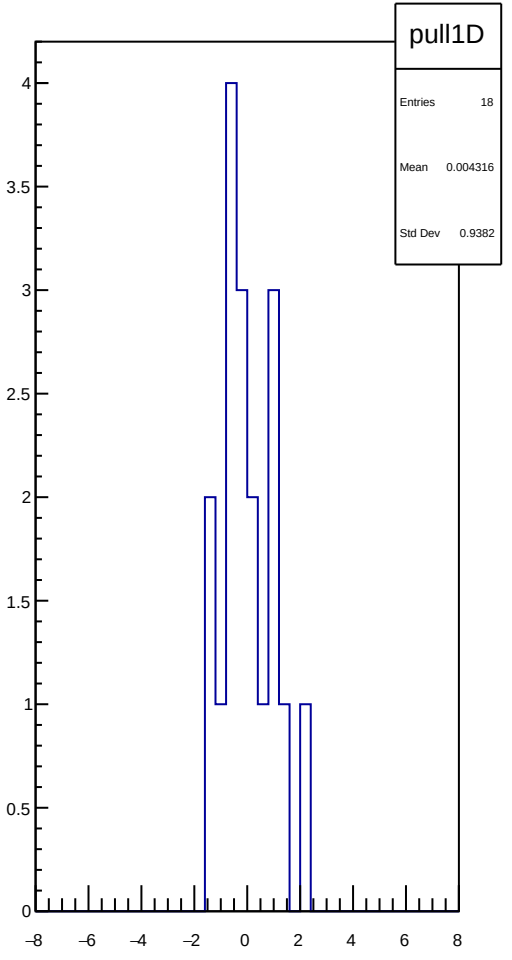

pull
Entries 18
Mean 41.02
Std Dev 37
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

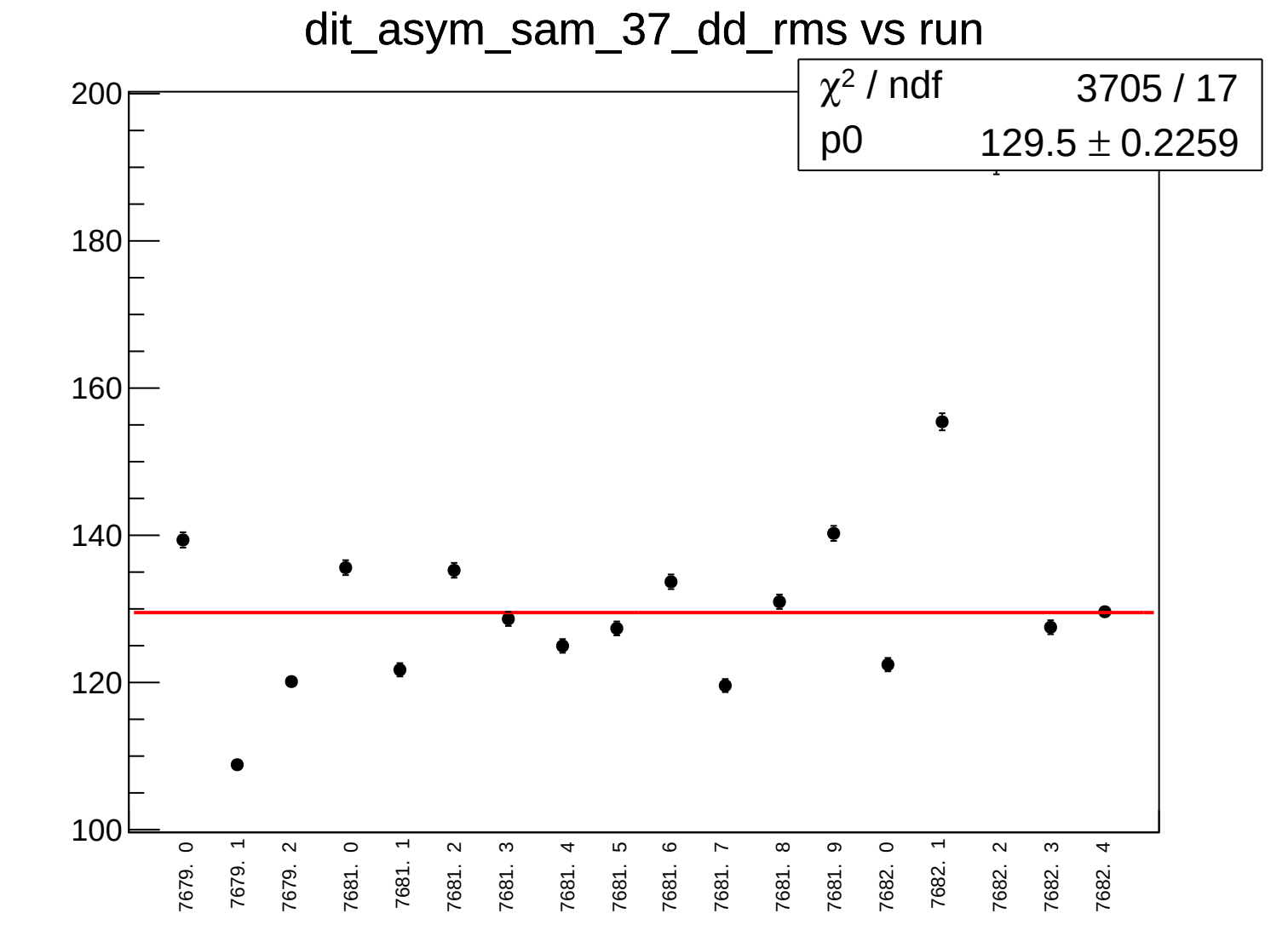

pull1D
Entries 18
Mean −0.01133
Std Dev 0.9635
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

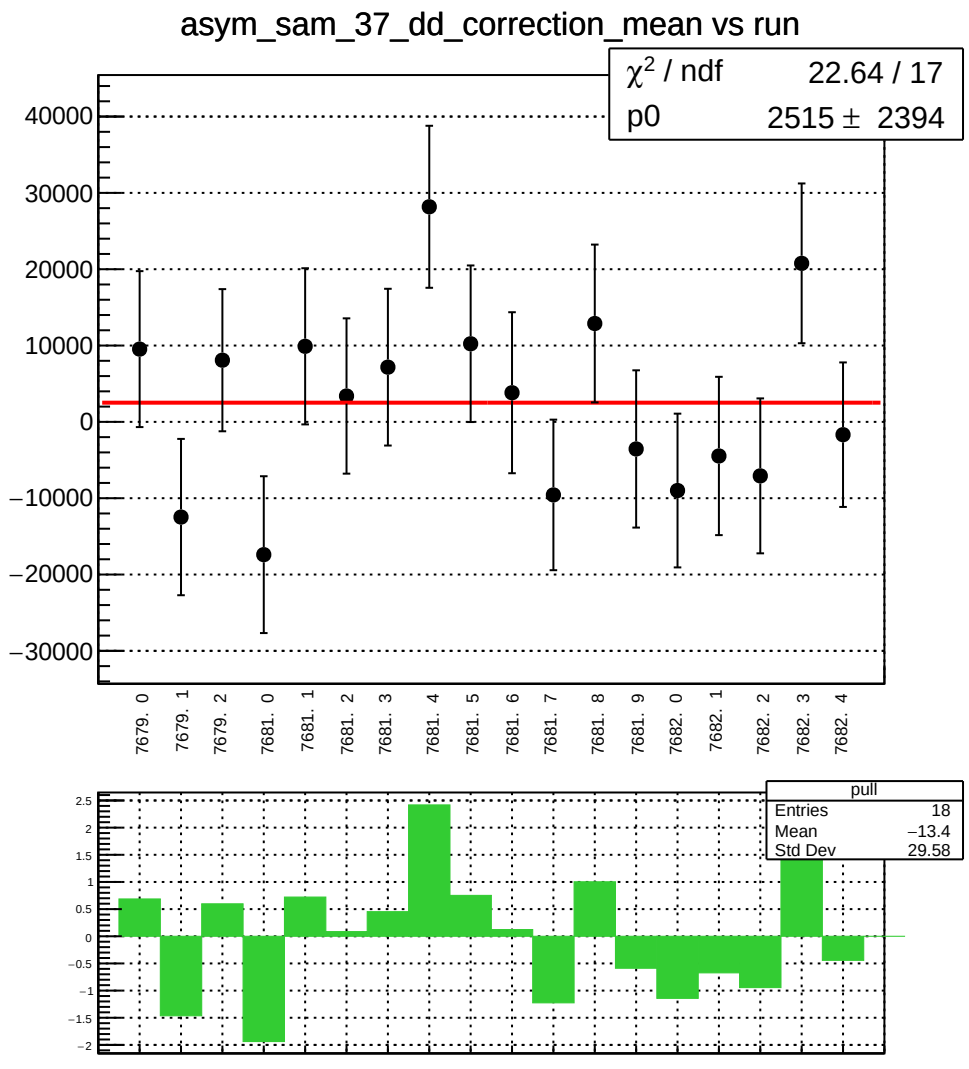

asym_sam_26_dd_rms vs run
χ² / ndf 253.1 / 17
p0 4348 ± 7.544
4600
4500
4400
4300
4200
4100
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

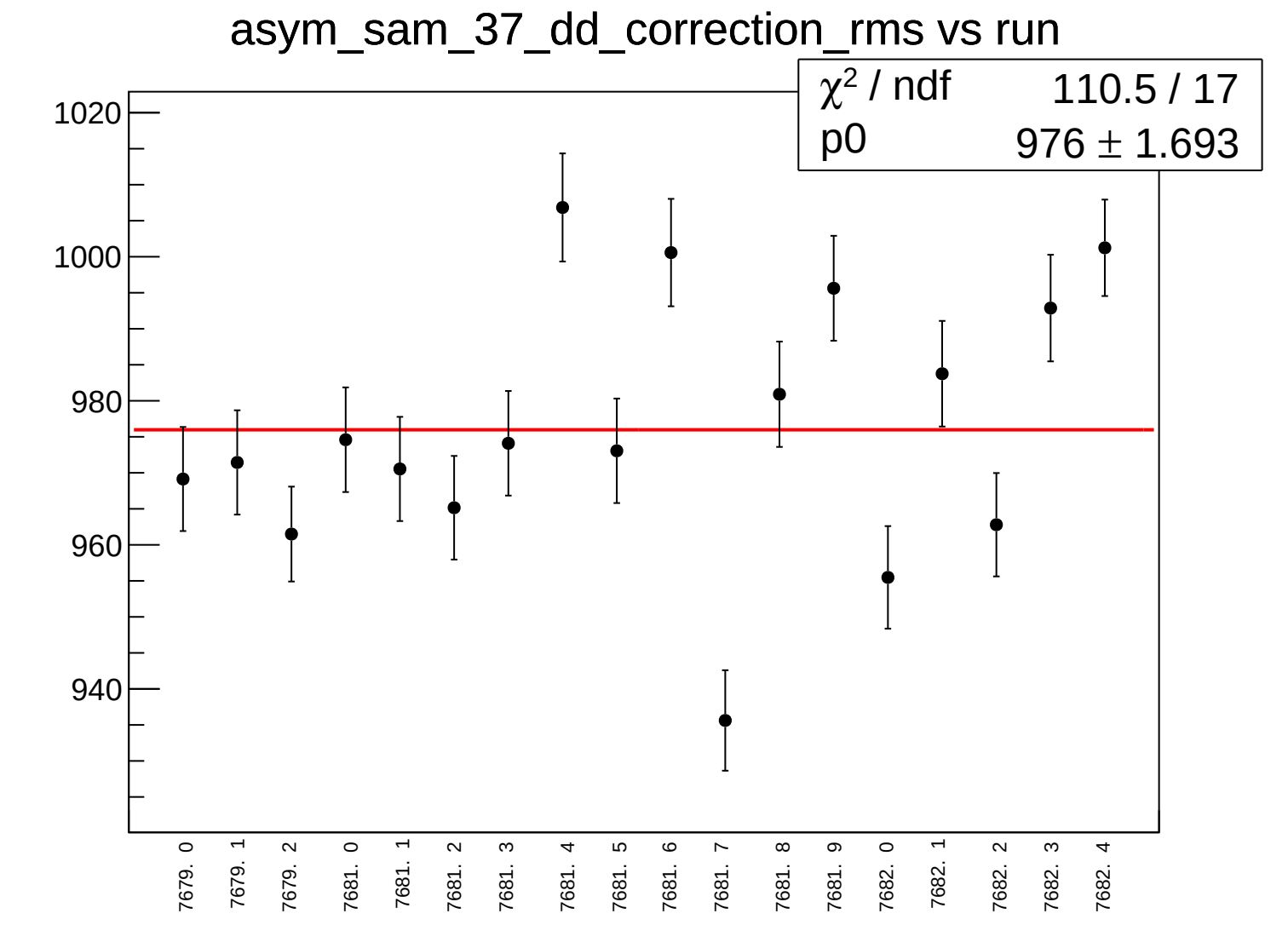

dit_asym_sam_37_dd_mean vs run
χ² / ndf 15.84 / 17
p0 −388.6 ± 319.5
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

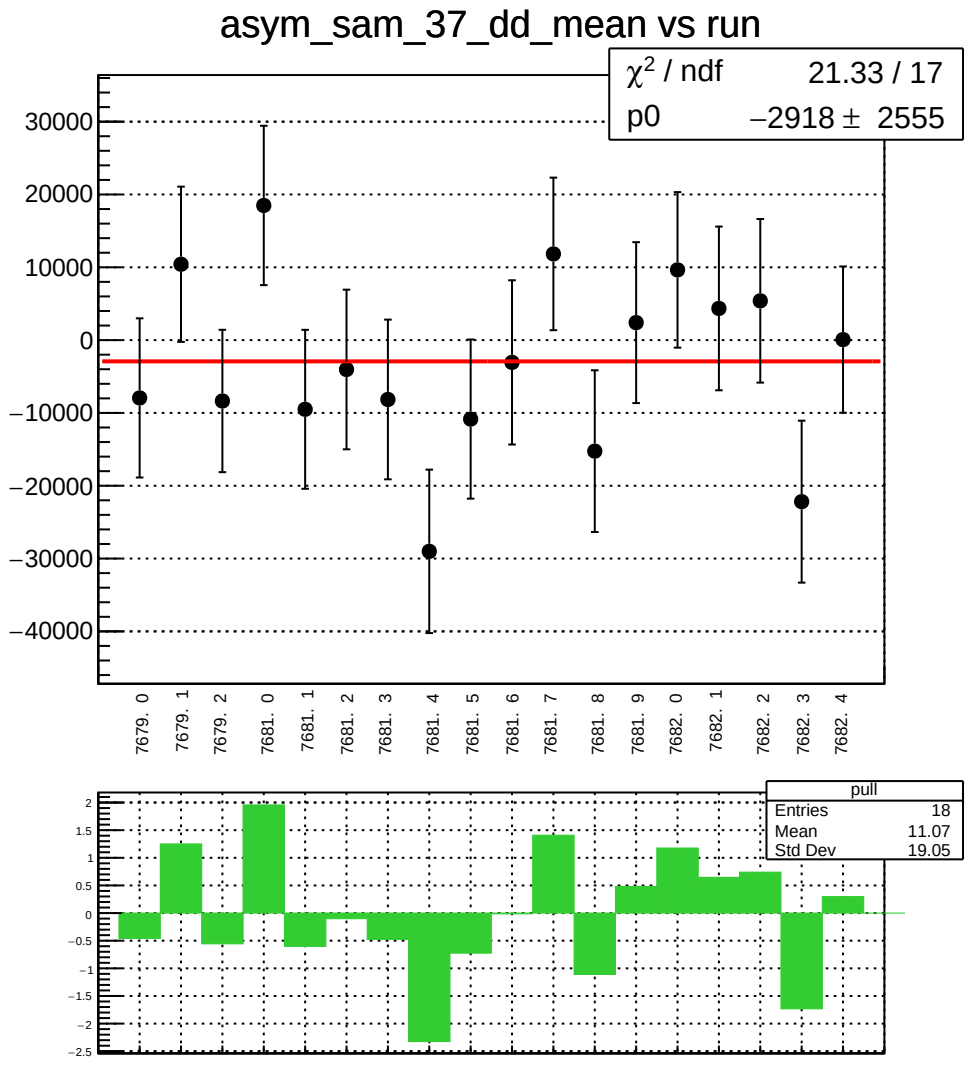

pull
Entries 18
Mean −287.5
Std Dev 298.1
2
1.5
1
0.5
0
−0.5
−1
−1.5

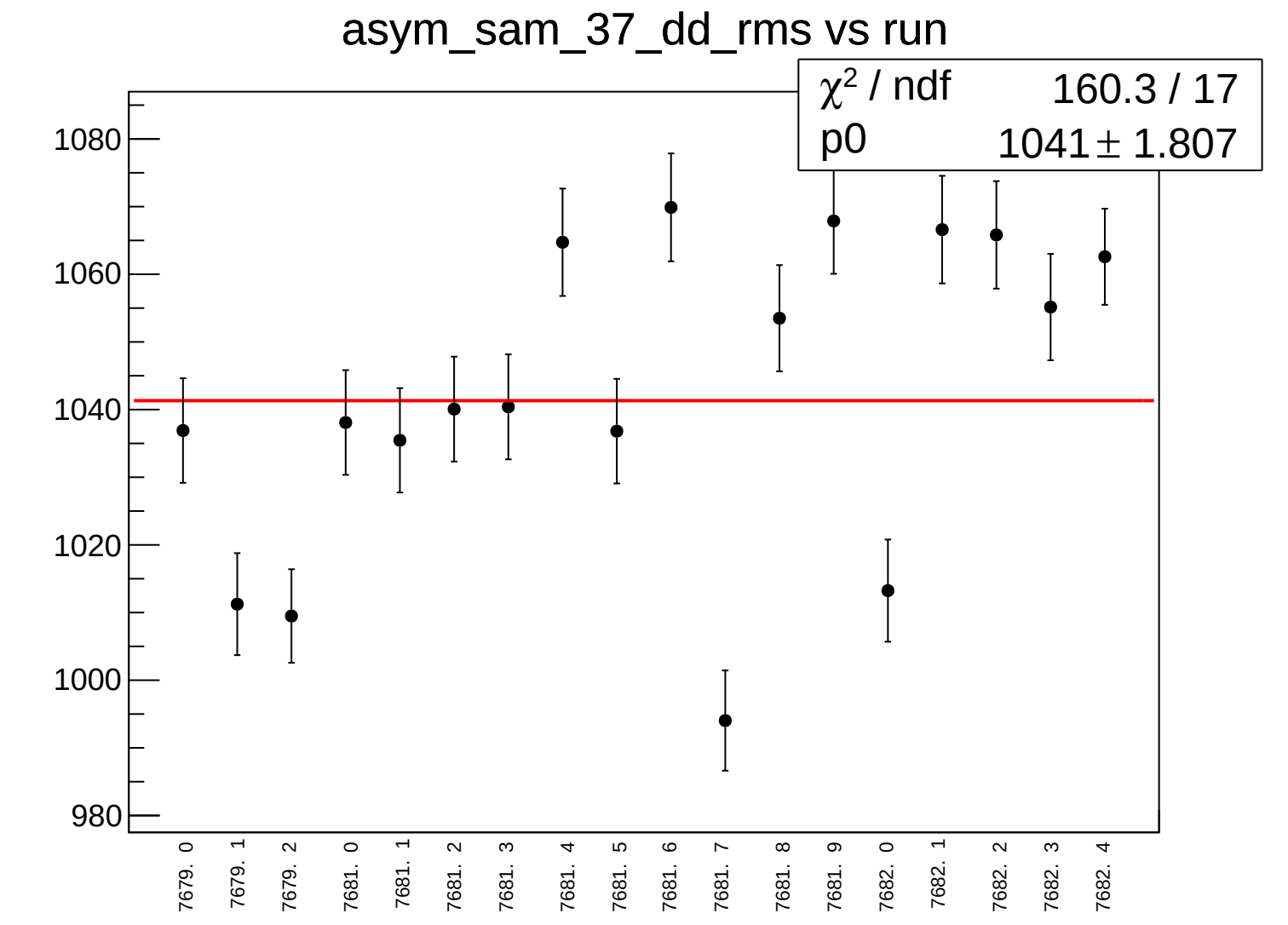

pull1D
Entries 18
Mean 0.004316
Std Dev 0.9382
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

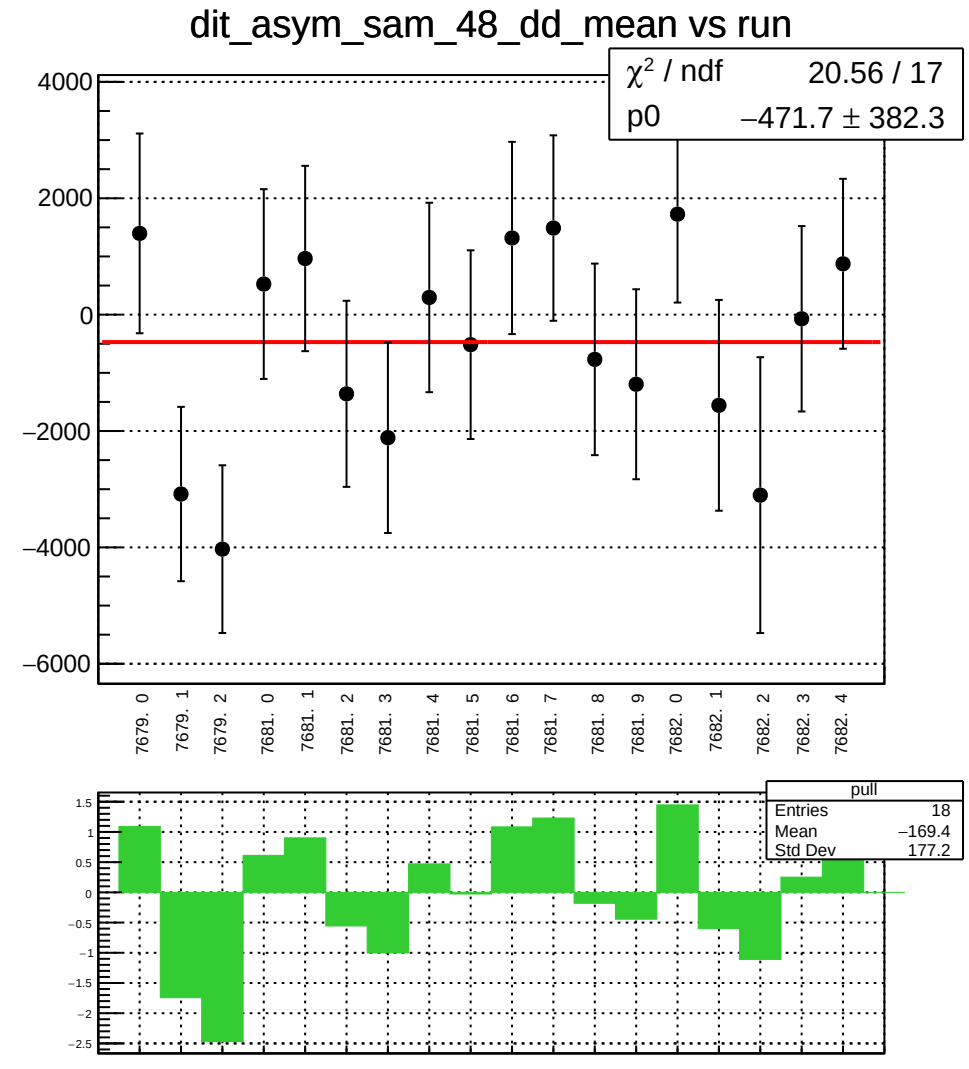

dit_asym_sam_37_dd_rms vs run
χ² / ndf 3705 / 17
p0 129.5 ± 0.2259
200
180
160
140
120
100
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

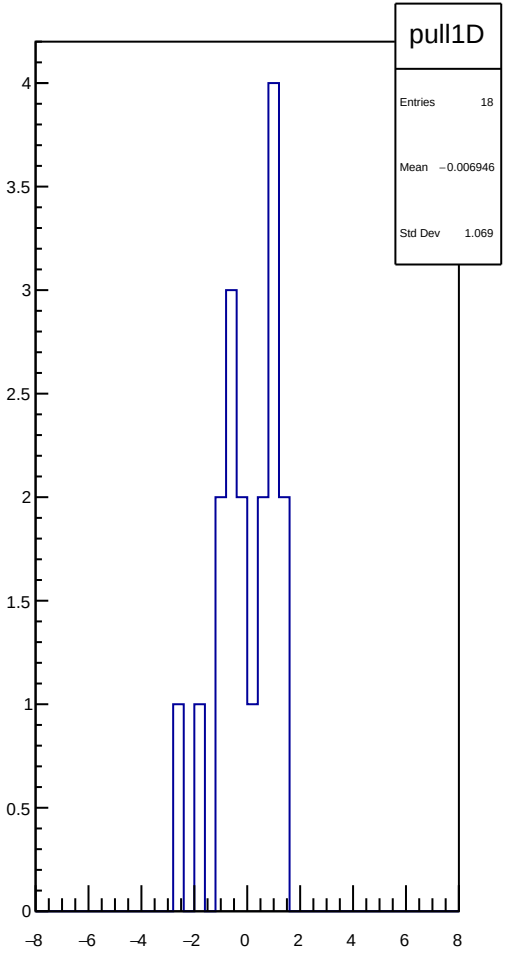

asym_sam_37_dd_correction_mean vs run
χ² / ndf 22.64 / 17
p0 2515 ± 2394
40000
30000
20000
10000
0
−10000
−20000
−30000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −13.4
Std Dev 29.58
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 18
Mean 0.009359
Std Dev 1.121
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

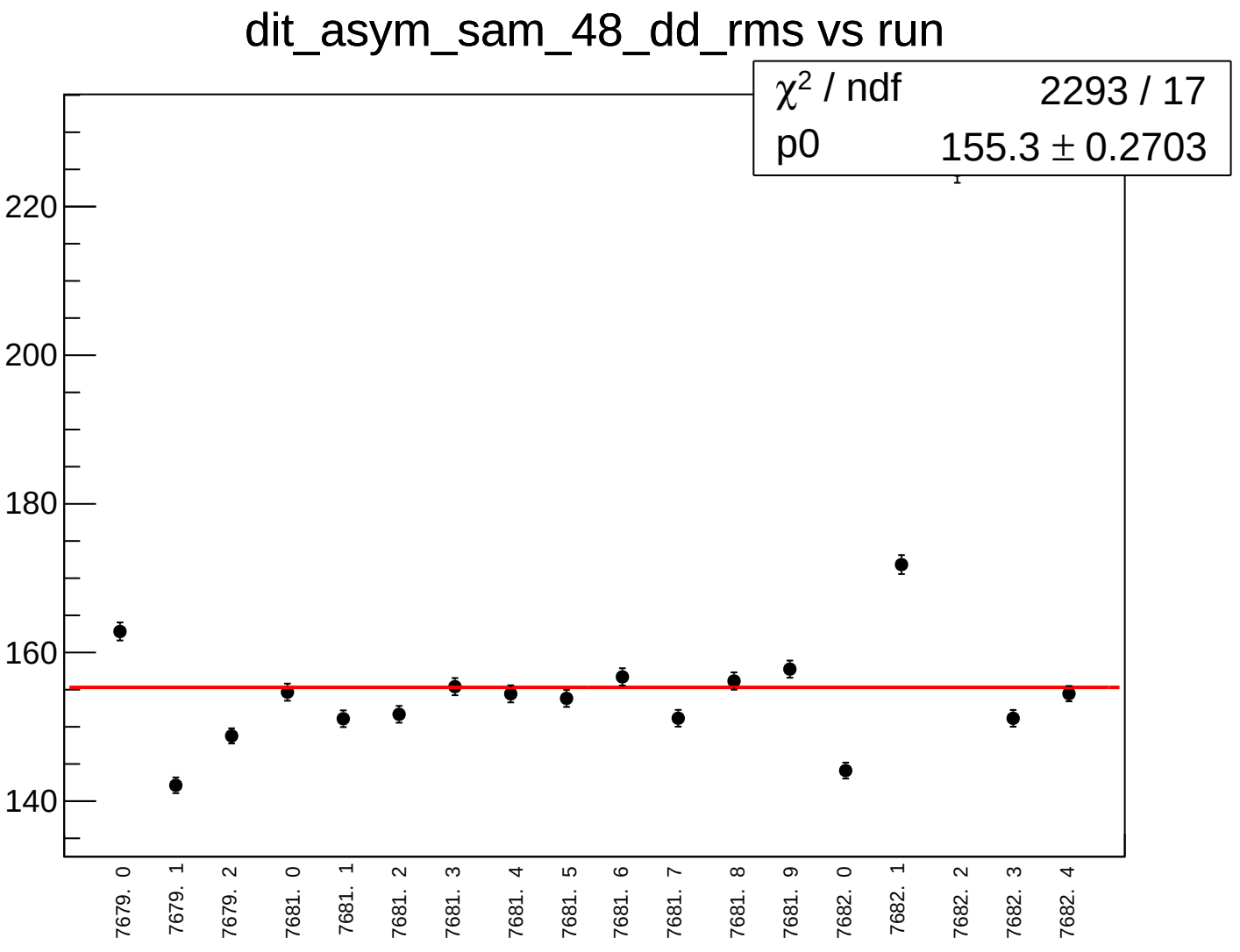

asym_sam_37_dd_correction_rms vs run
χ² / ndf 110.5 / 17
p0 976 ± 1.693
1020
1000
980
960
940
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

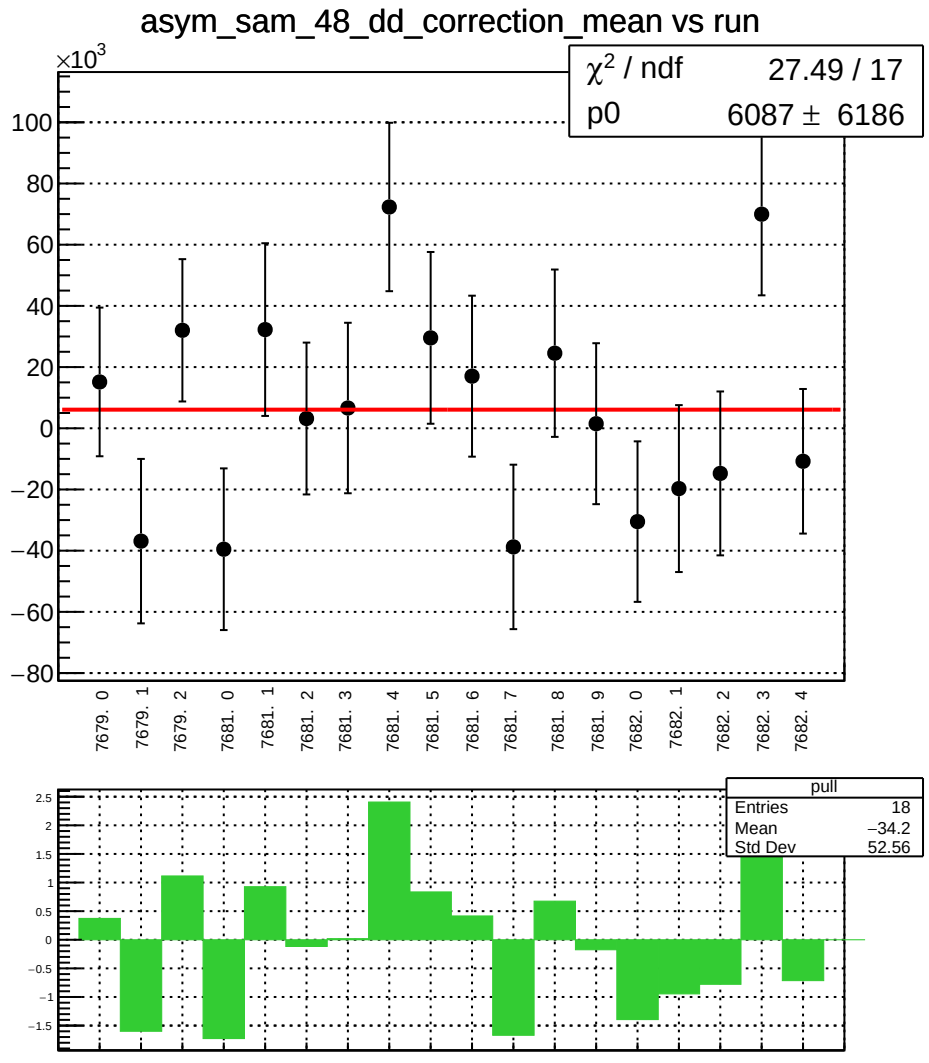

asym_sam_37_dd_mean vs run
χ² / ndf 21.33 / 17
p0 −2918 ± 2555
30000
20000
10000
0
−10000
−20000
−30000
−40000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 11.07
Std Dev 19.05
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 18
Mean −0.008032
Std Dev 1.089
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

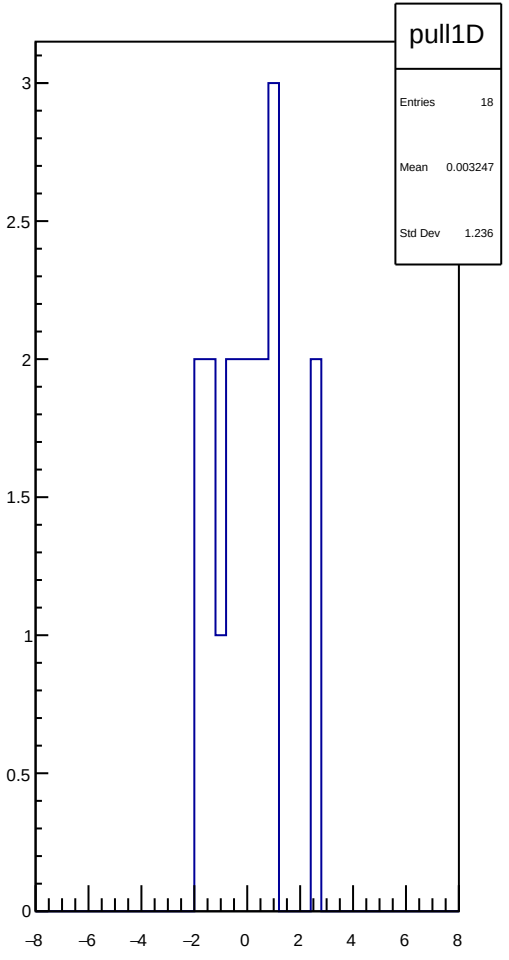

asym_sam_37_dd_rms vs run
χ² / ndf 160.3 / 17
p0 1041 ± 1.807
1080
1060
1040
1020
1000
980
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

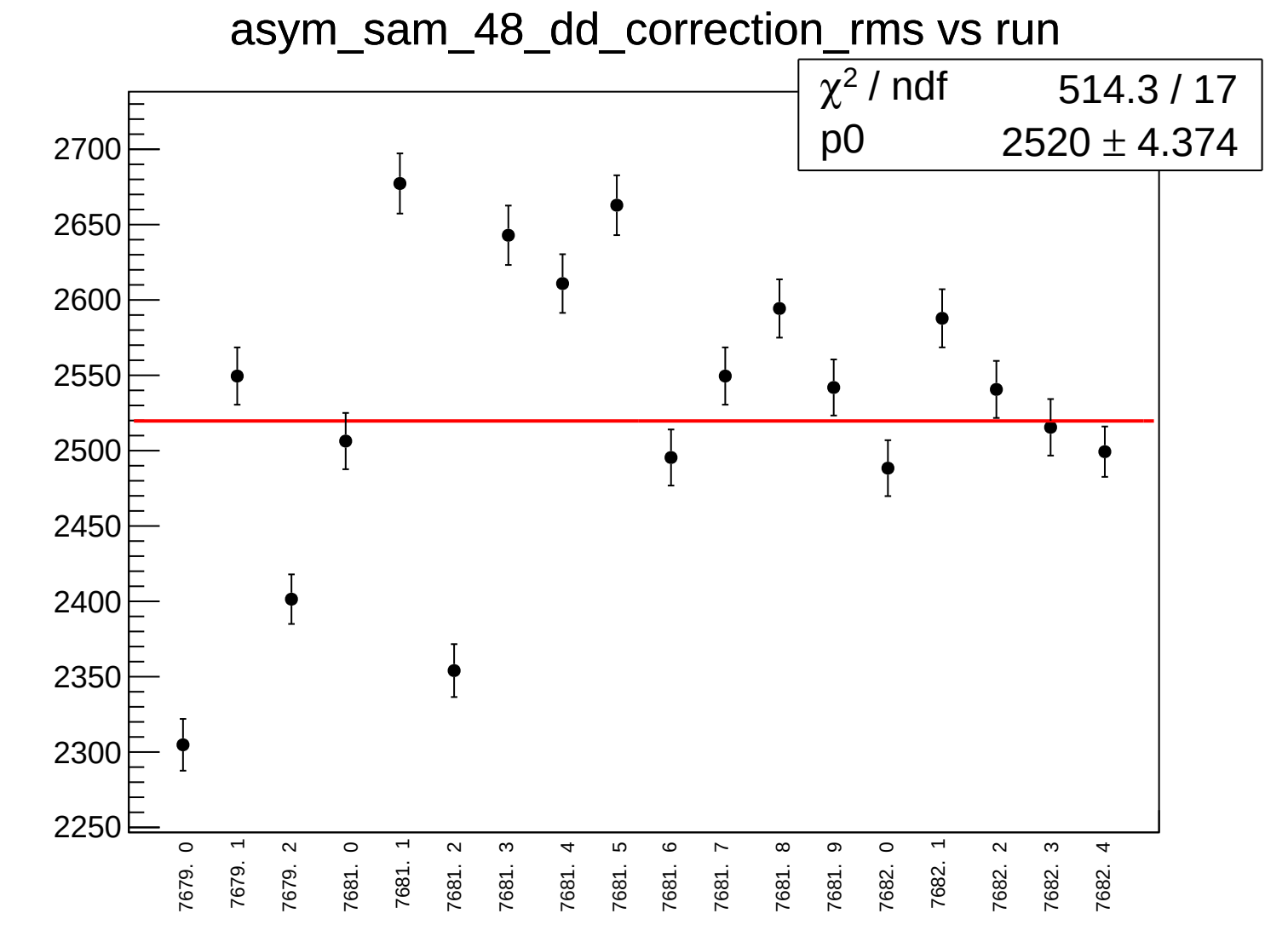

dit_asym_sam_48_dd_mean vs run
χ² / ndf 20.56 / 17
p0 −471.7 ± 382.3
4000
2000
0
−2000
−4000
−6000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −169.4
Std Dev 177.2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

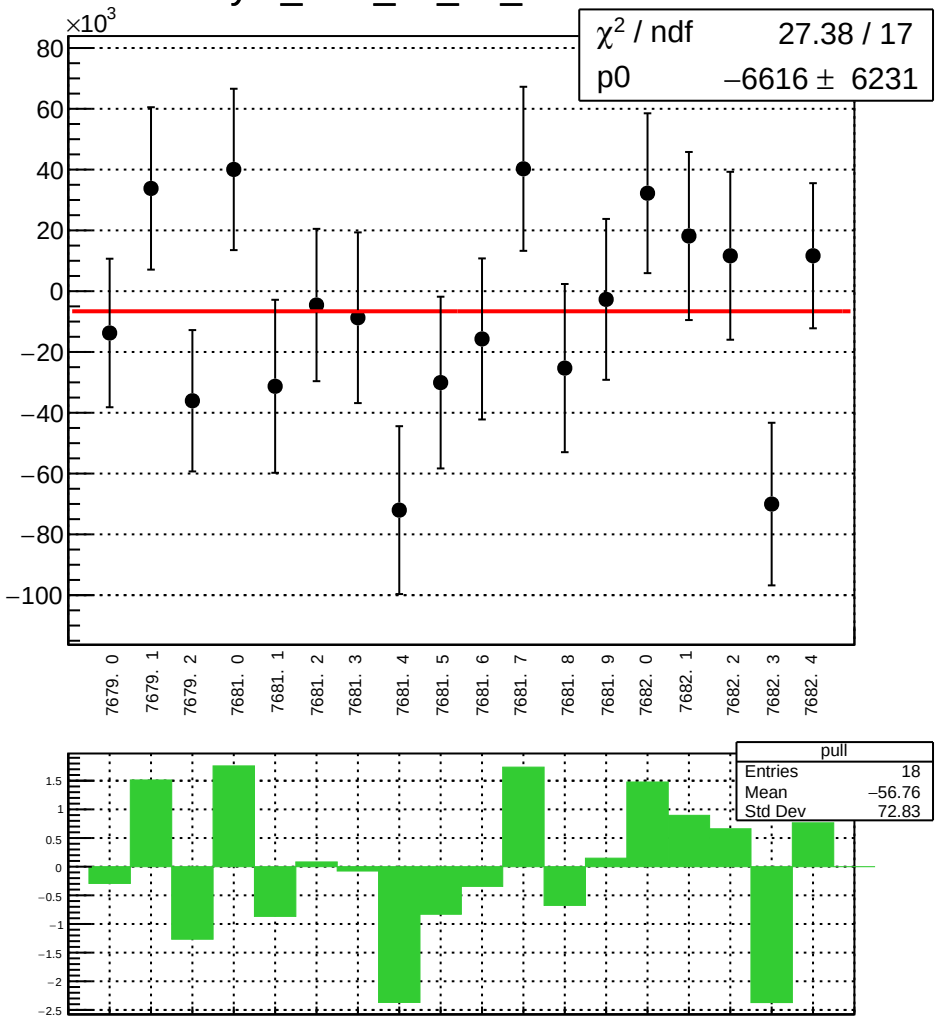

pull1D
Entries 18
Mean −0.006946
Std Dev 1.069
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

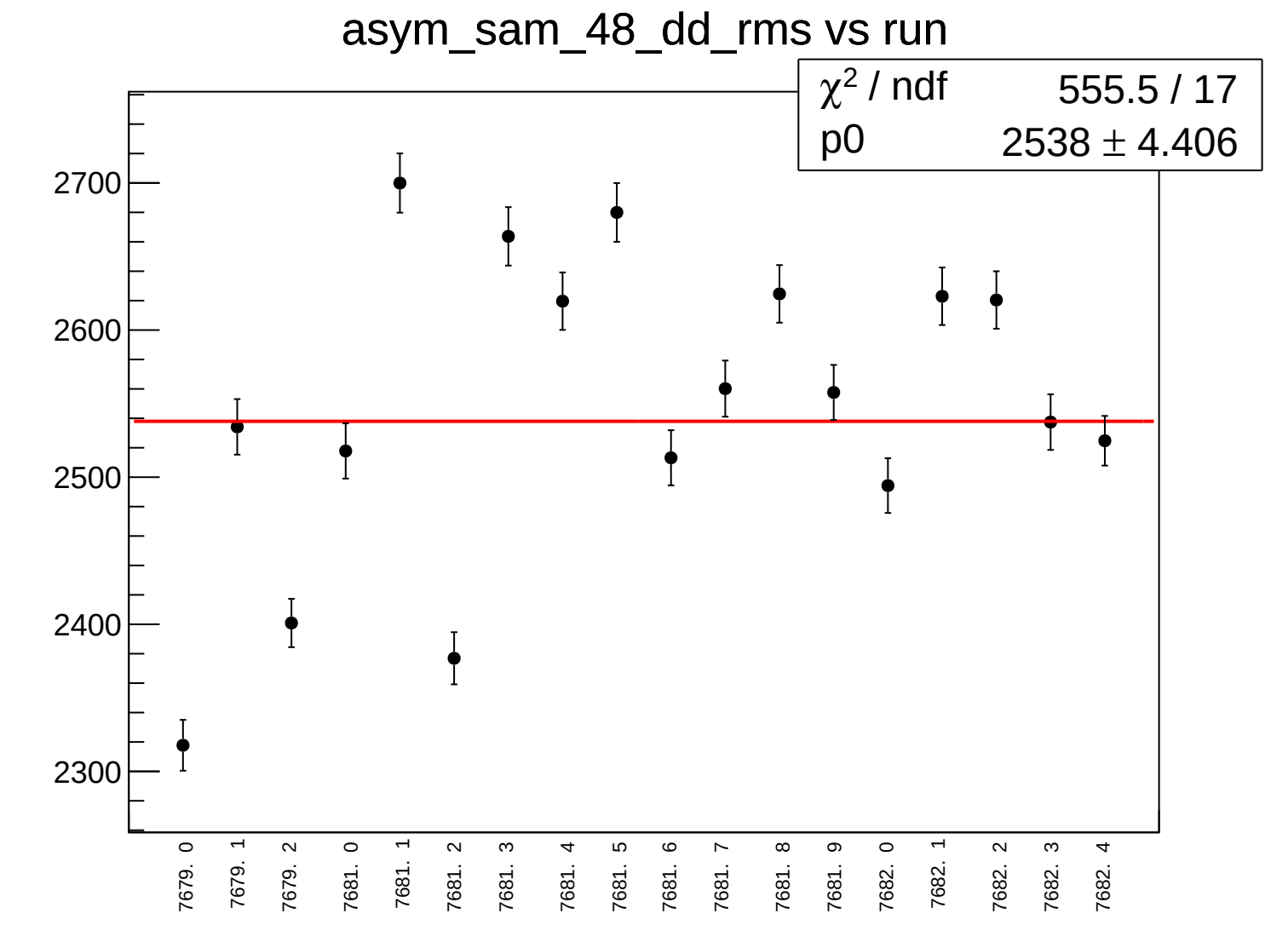

dit_asym_sam_48_dd_rms vs run
χ² / ndf 2293 / 17
p0 155.3 ± 0.2703
220
200
180
160
140
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

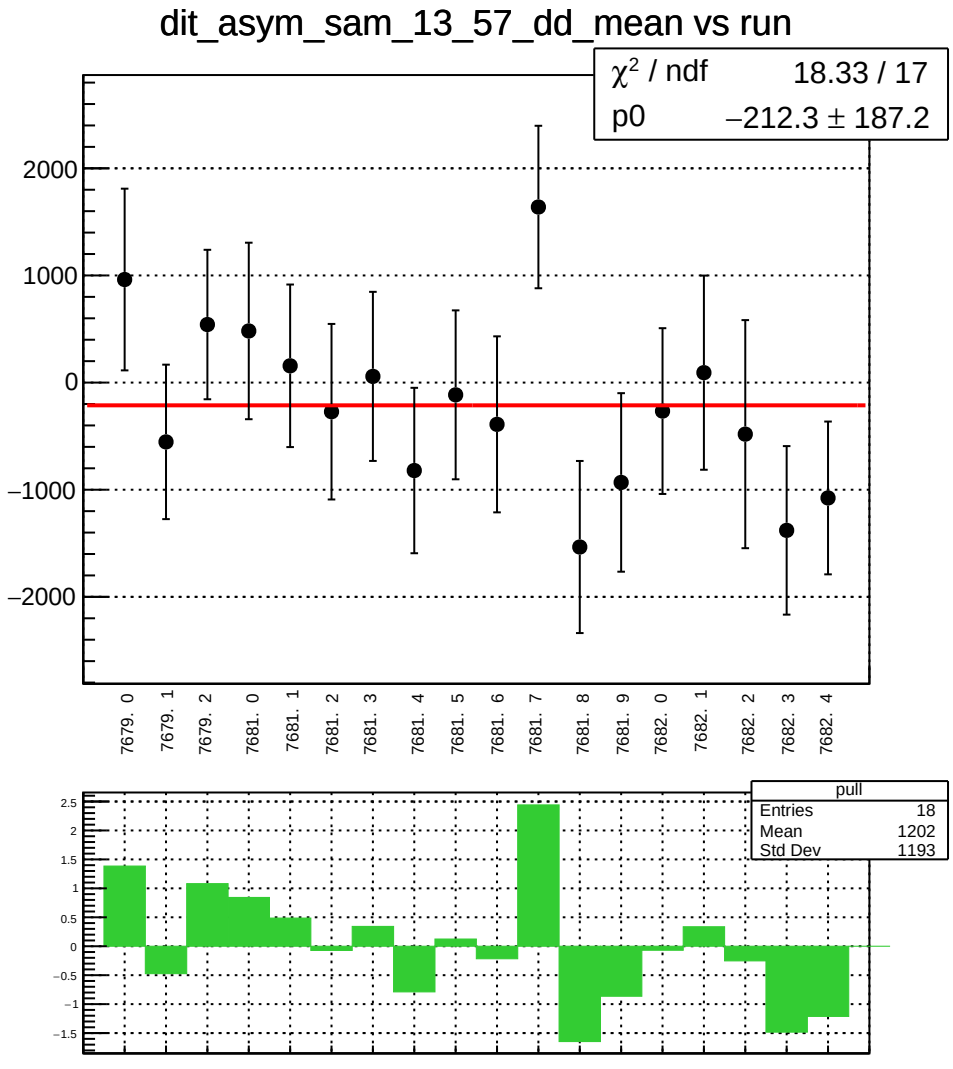

asym_sam_48_dd_correction_mean vs run
×10^3
χ² / ndf 27.49 / 17
p0 6087 ± 6186
100
80
60
40
20
0
−20
−40
−60
−80
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −34.2
Std Dev 52.56
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

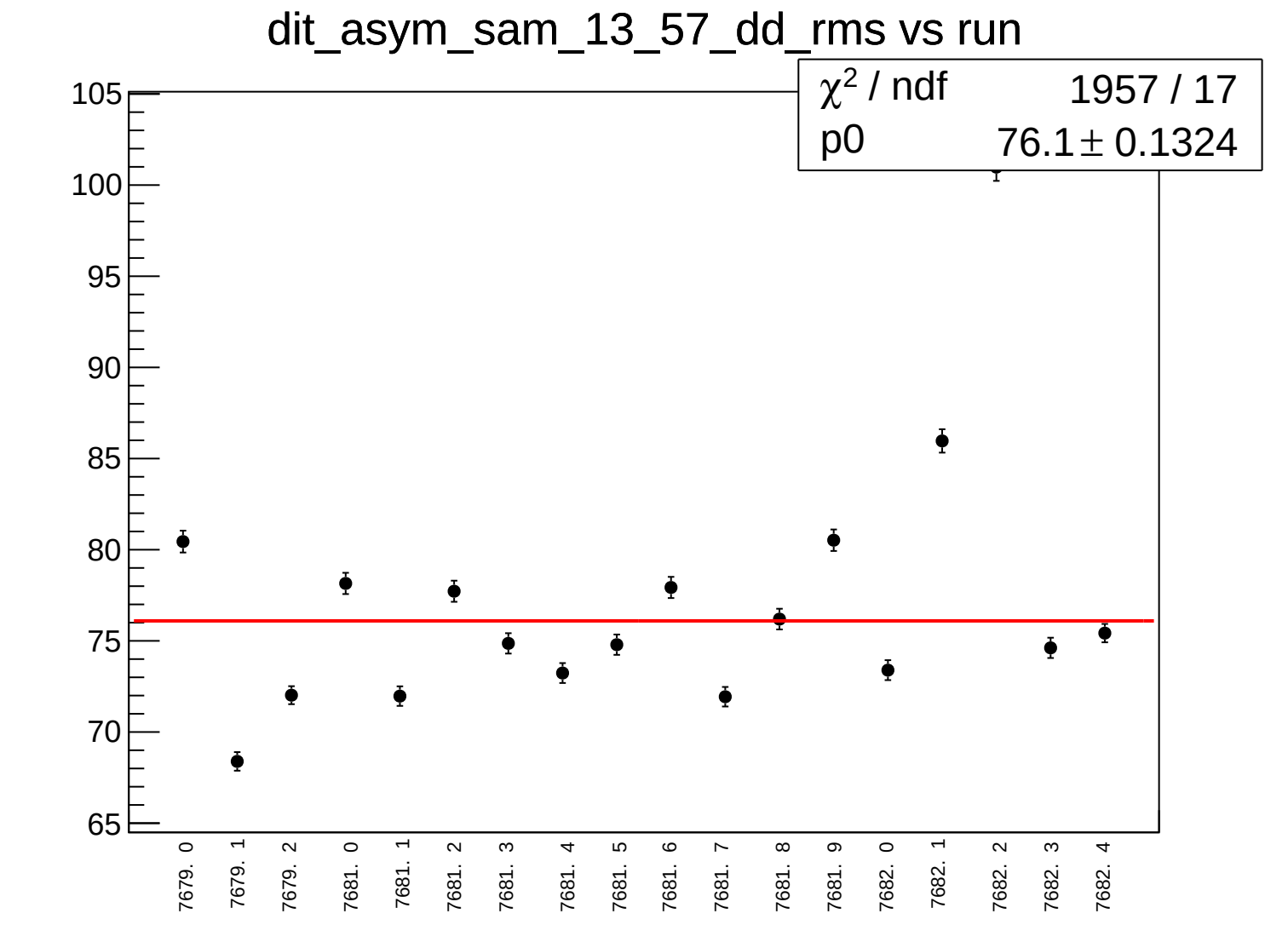

pull1D
Entries 18
Mean 0.003247
Std Dev 1.236
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

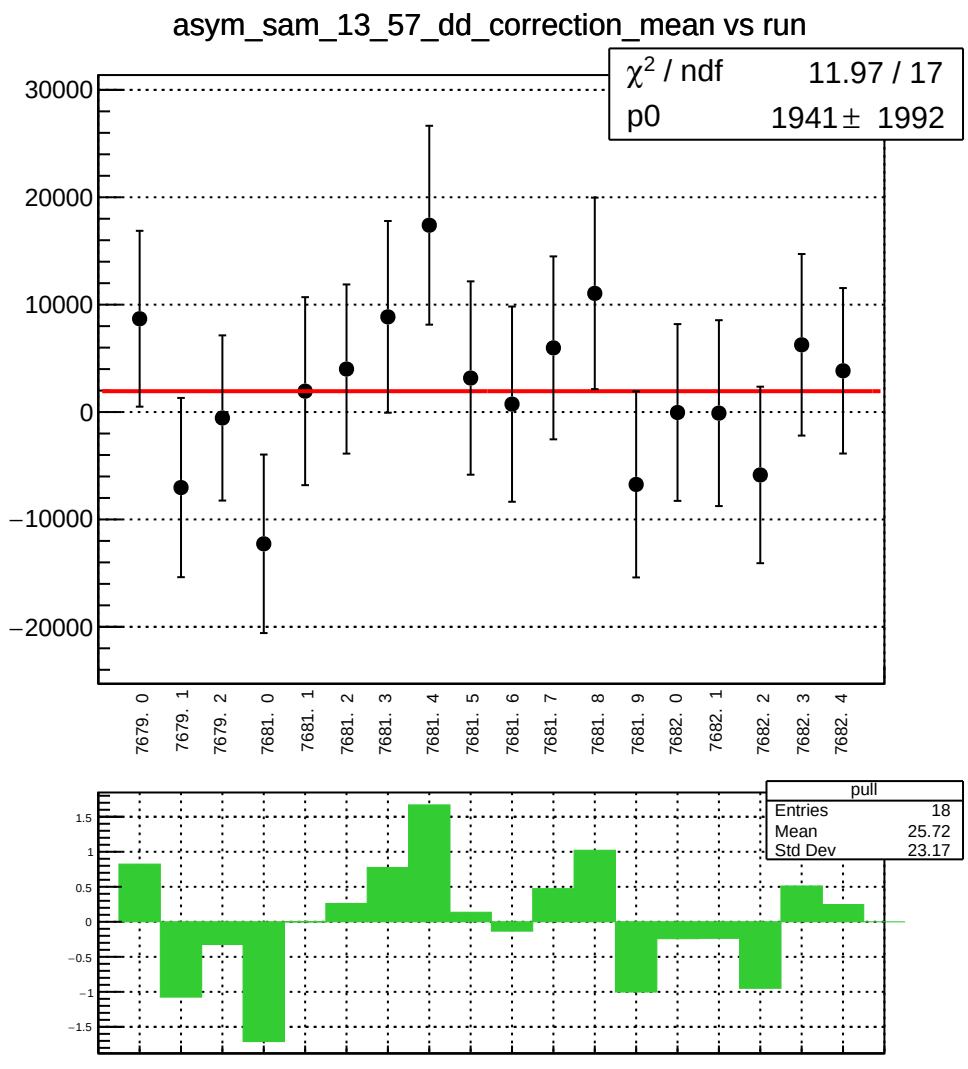

asym_sam_48_dd_correction_rms vs run
χ² / ndf 514.3 / 17
p0 2520 ± 4.374
2700
2650
2600
2550
2500
2450
2400
2350
2300
2250
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

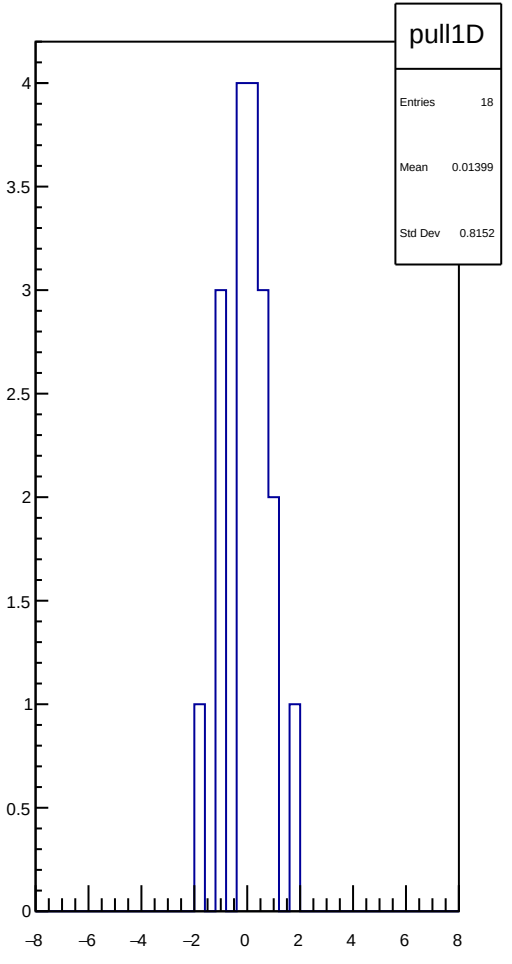

asym_sam_48_dd_mean vs run
×10^3
χ^2 / ndf 27.38 / 17
p0 −6616 ± 6231
80
60
40
20
0
−20
−40
−60
−80
−100
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −56.76
Std Dev 72.83
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 18
Mean −0.002805
Std Dev 1.233
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

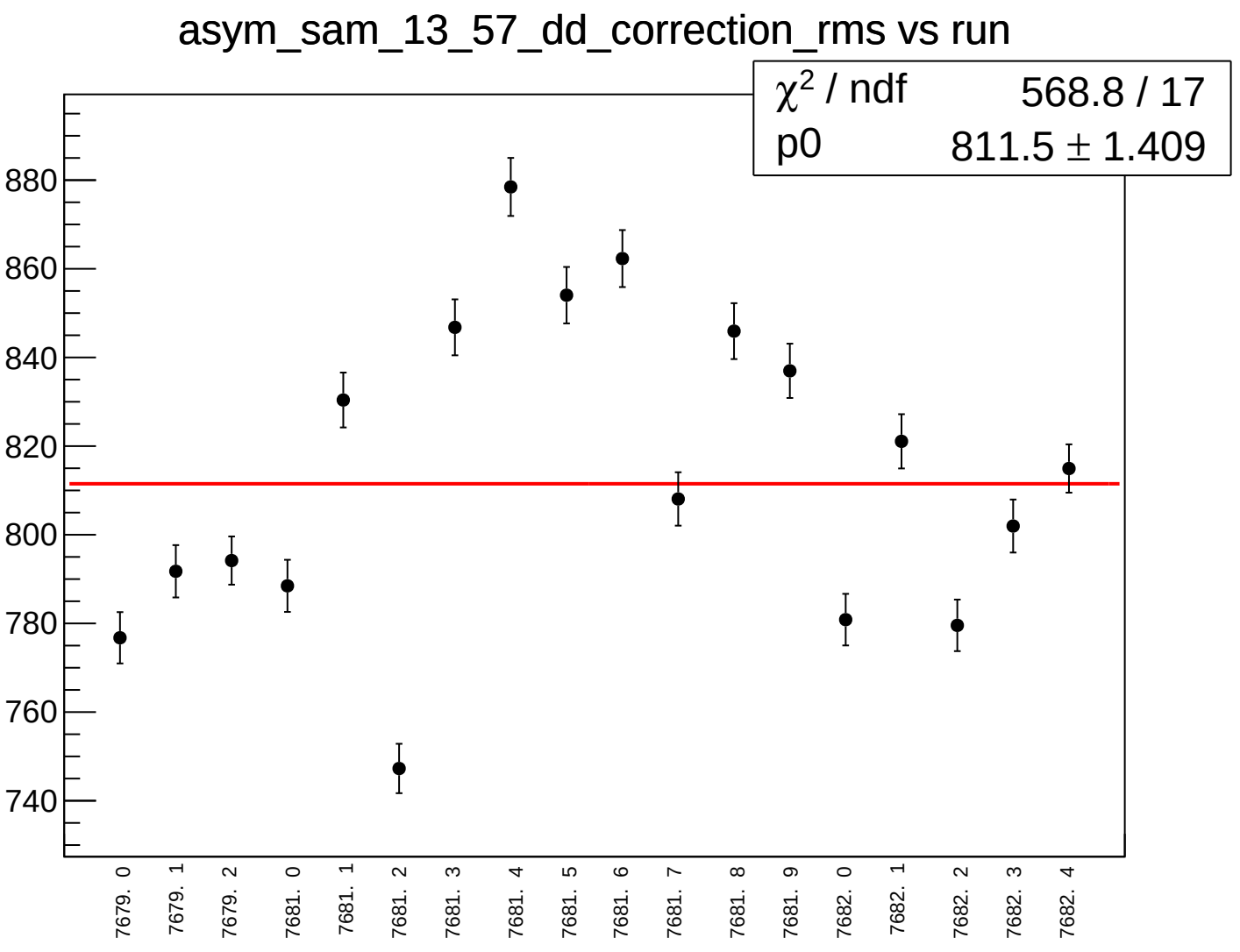

asym_sam_48_dd_rms vs run
χ² / ndf 555.5 / 17
p0 2538 ± 4.406
2700
2600
2500
2400
2300
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

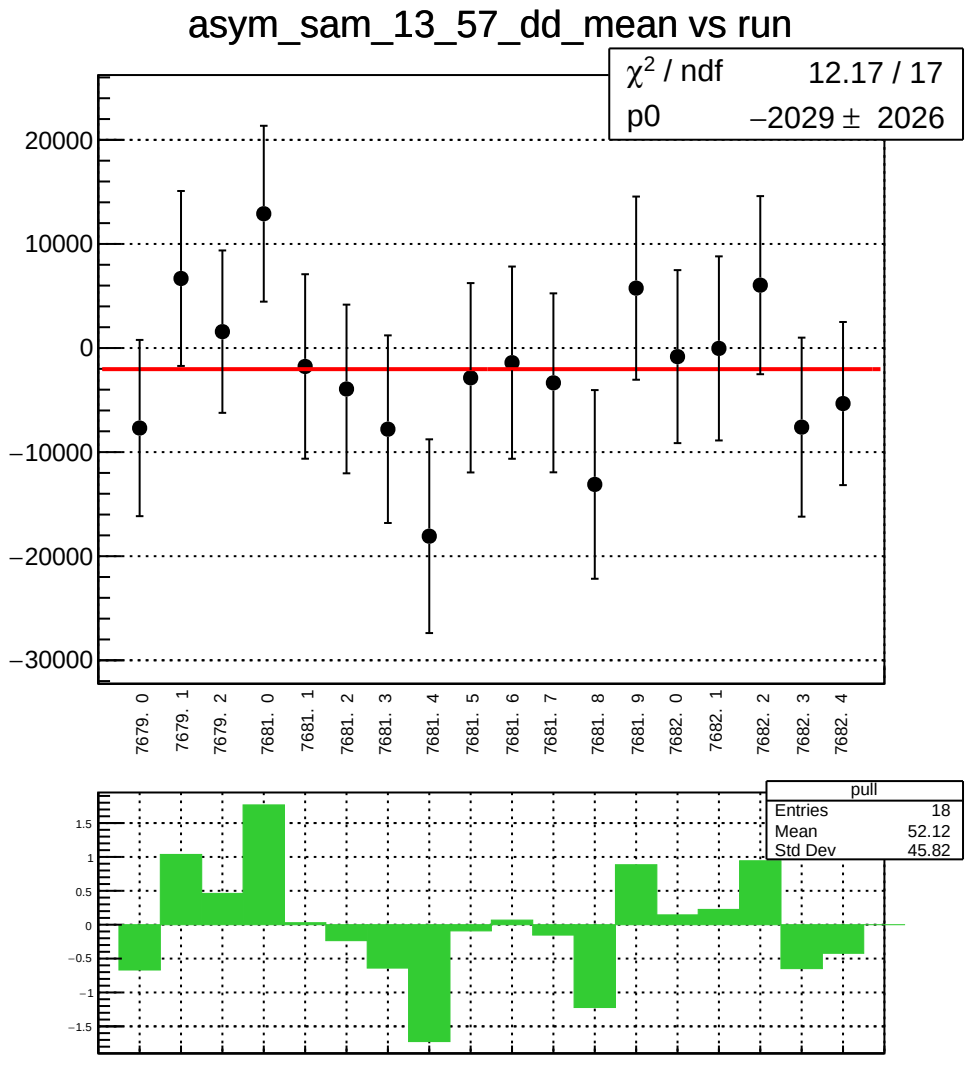

dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 18.33 / 17
p0 −212.3 ± 187.2
2000
1000
0
−1000
−2000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 1202
Std Dev 1193
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 18
Mean −0.002173
Std Dev 1.009
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

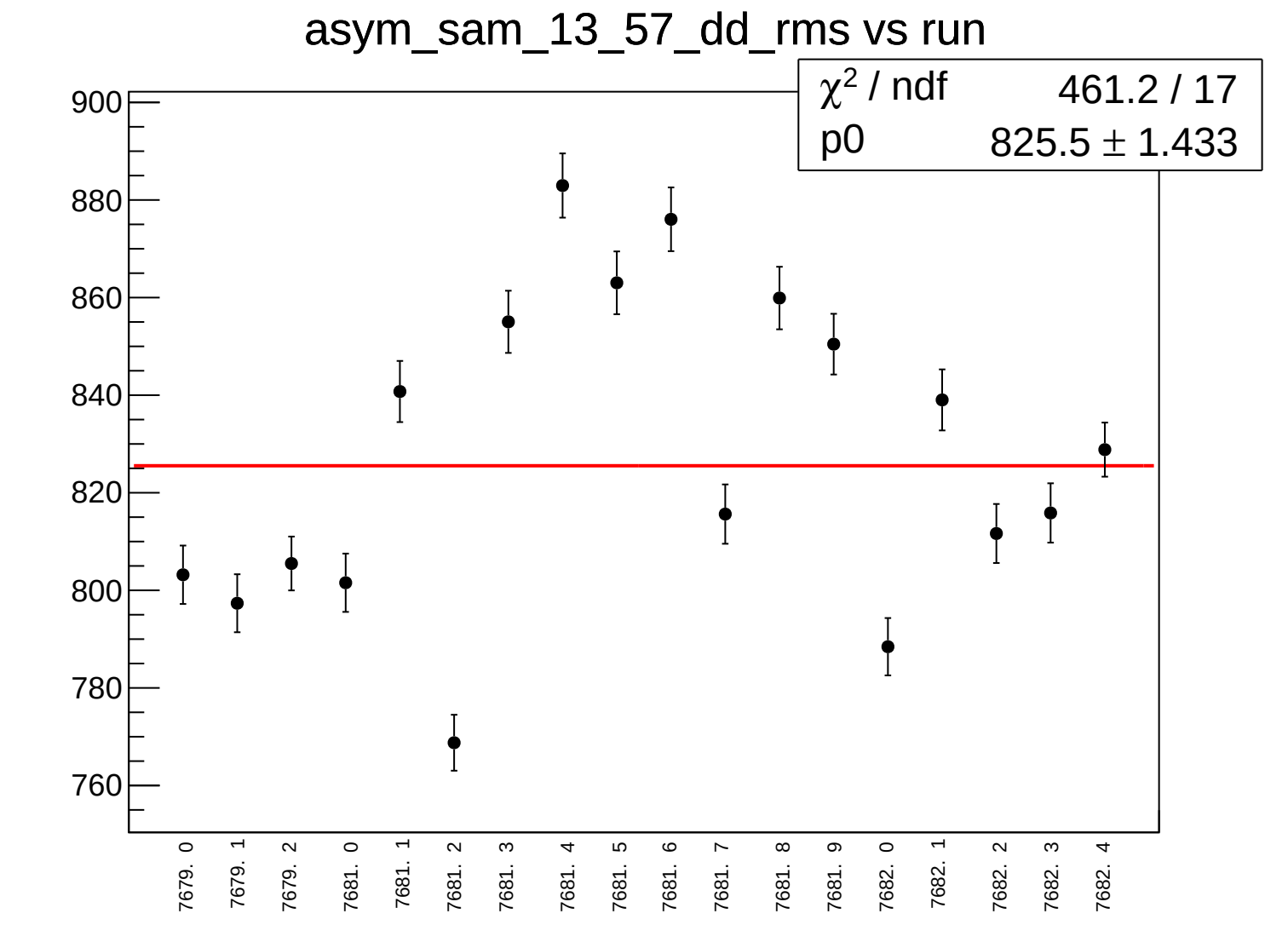

dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 1957 / 17
p0 76.1 ± 0.1324
105
100
95
90
85
80
75
70
65
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

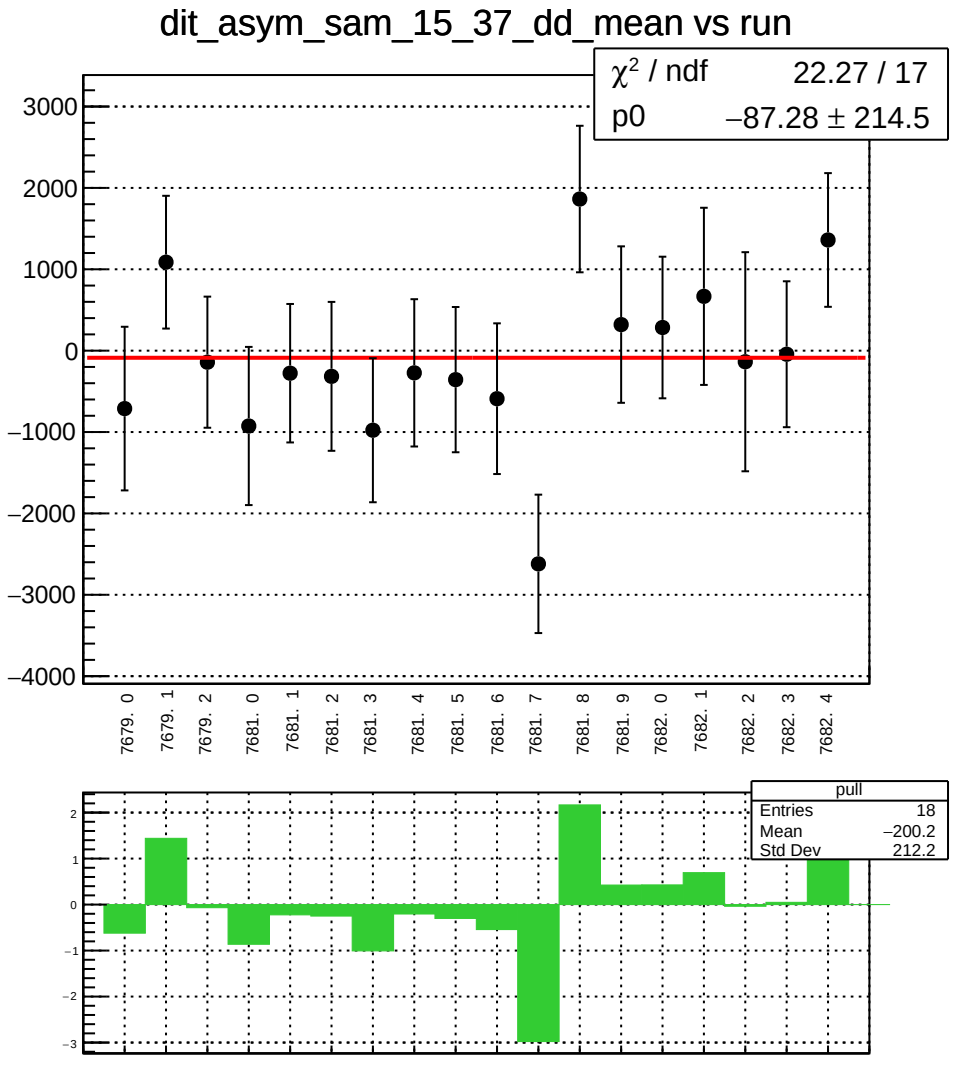

asym_sam_13_57_dd_correction_mean vs run
χ² / ndf 11.97 / 17
p0 1941 ± 1992
30000
20000
10000
0
−10000
−20000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 25.72
Std Dev 23.17
1.5
1
0.5
0
−0.5
−1
−1.5

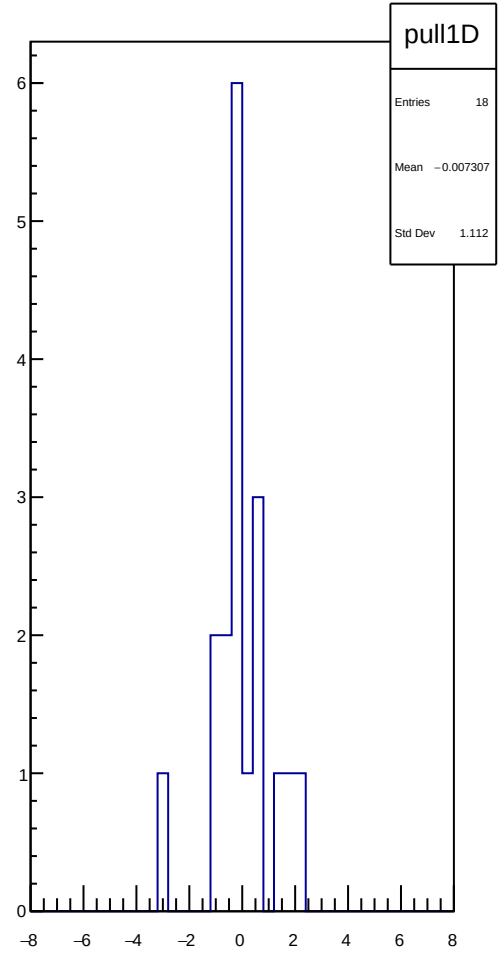

pull1D
Entries 18
Mean 0.01399
Std Dev 0.8152
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

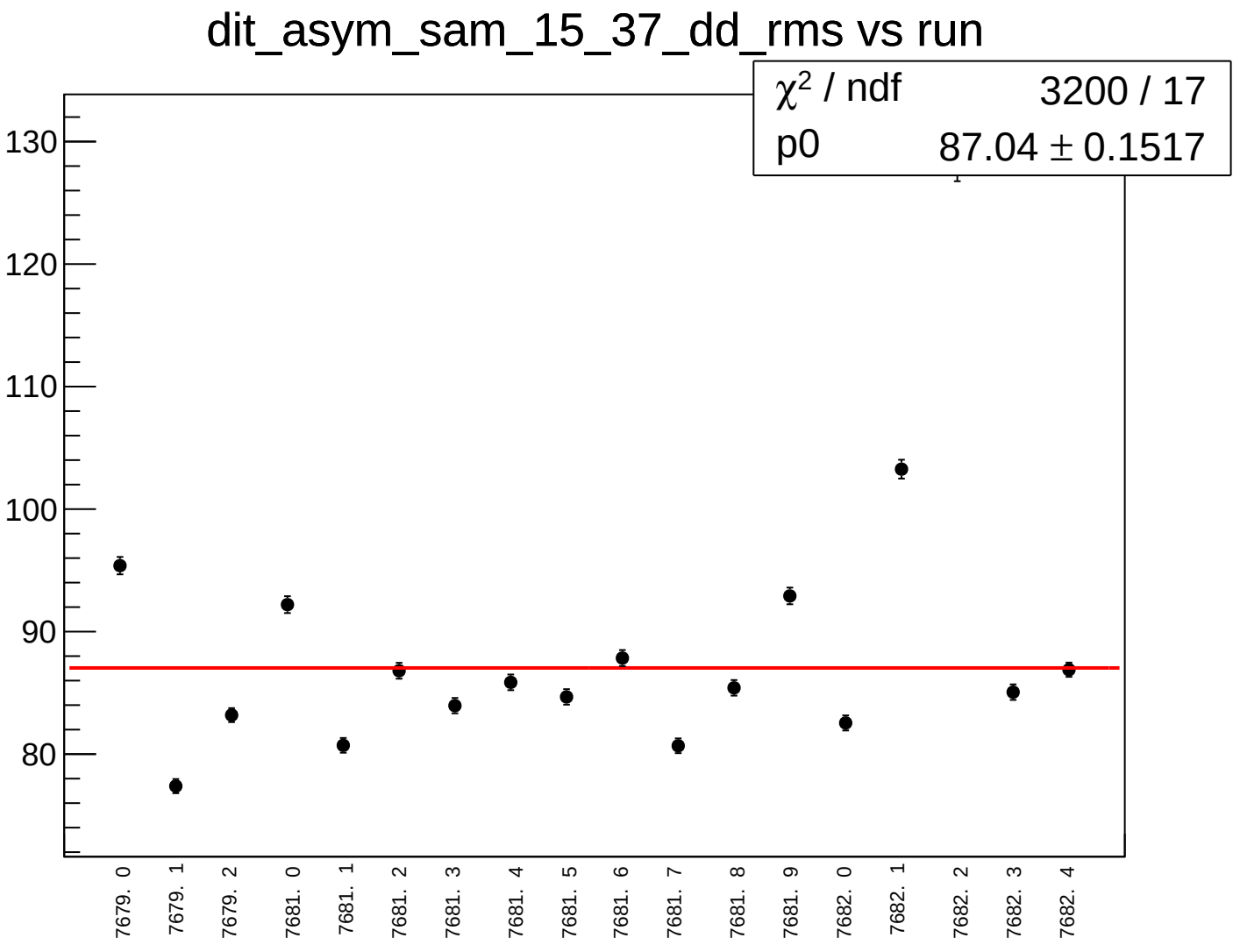

asym_sam_13_57_dd_correction_rms vs run
χ² / ndf 568.8 / 17
p0 811.5 ± 1.409
880
860
840
820
800
780
760
740
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

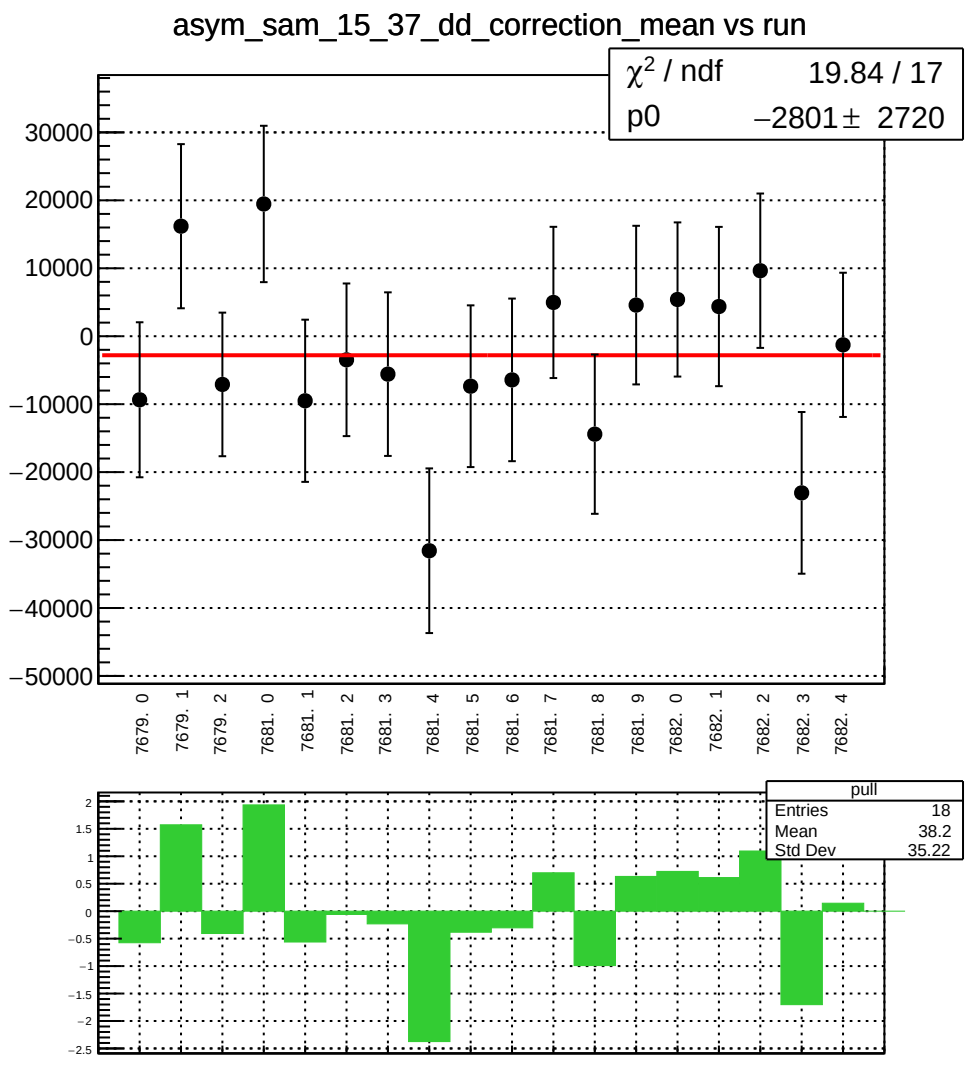

asym_sam_13_57_dd_mean vs run
χ² / ndf 12.17 / 17
p0 −2029 ± 2026
20000
10000
0
−10000
−20000
−30000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 52.12
Std Dev 45.82
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 18
Mean −0.01349
Std Dev 0.8221
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

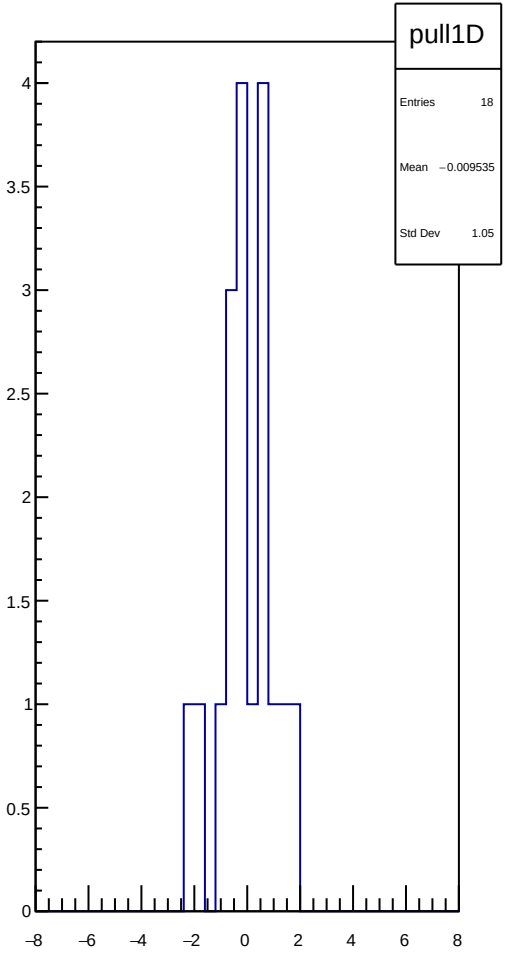

asym_sam_13_57_dd_rms vs run
χ² / ndf 461.2 / 17
p0 825.5 ± 1.433
900
880
860
840
820
800
780
760
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

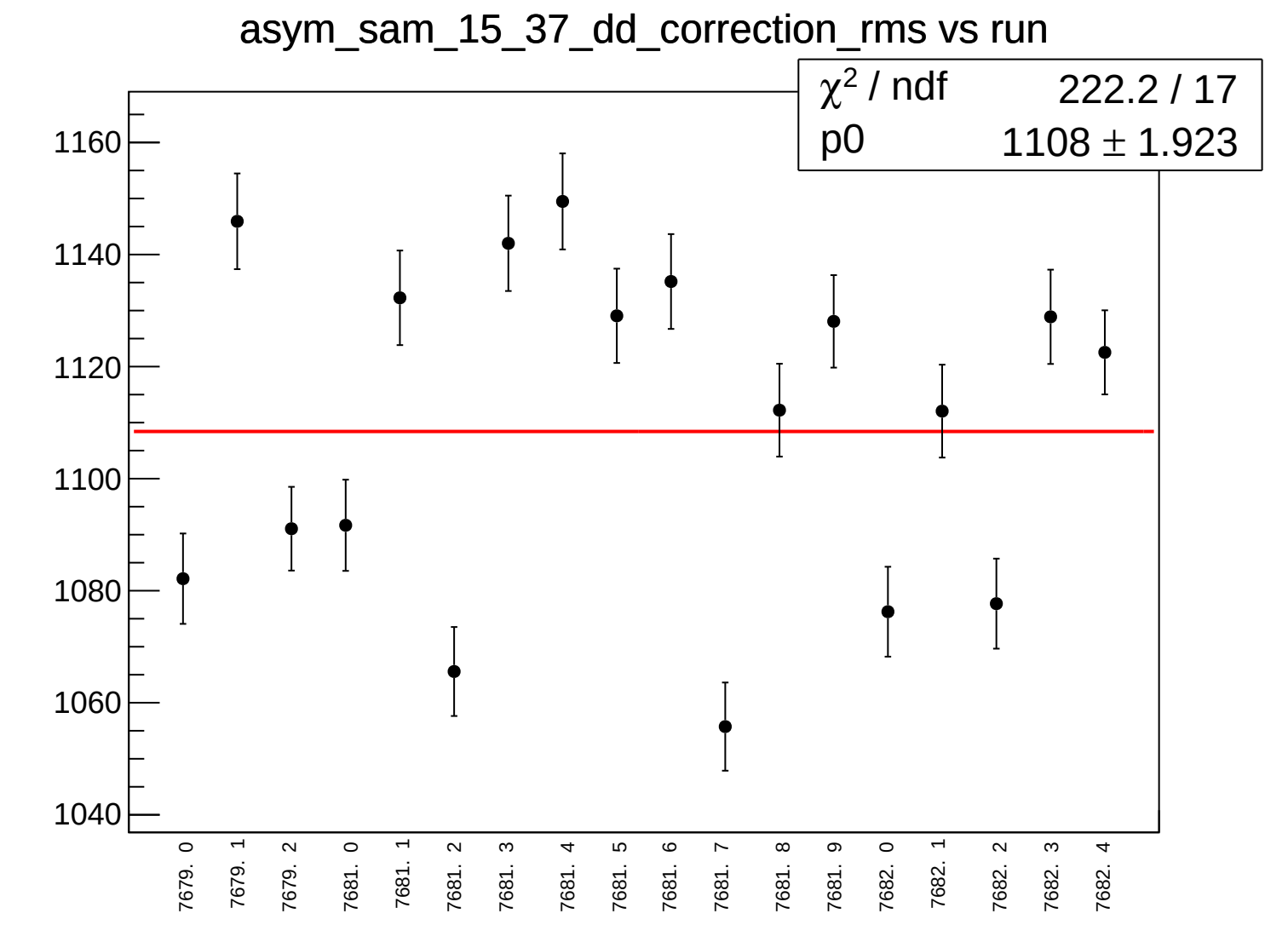

dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 22.27 / 17
p0 −87.28 ± 214.5
3000
2000
1000
0
−1000
−2000
−3000
−4000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −200.2
Std Dev 212.2
2
1
0
−1
−2
−3

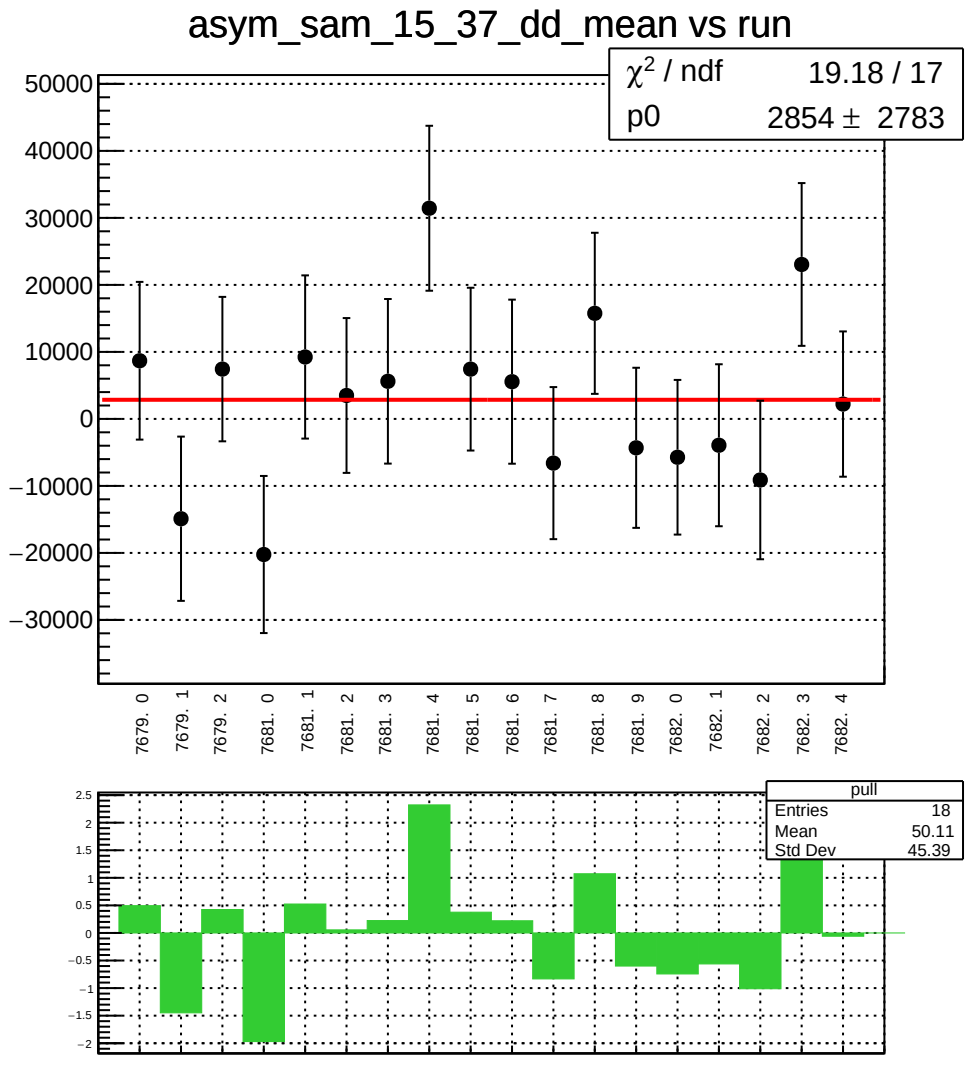

pull1D
Entries 18
Mean −0.007307
Std Dev 1.112
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

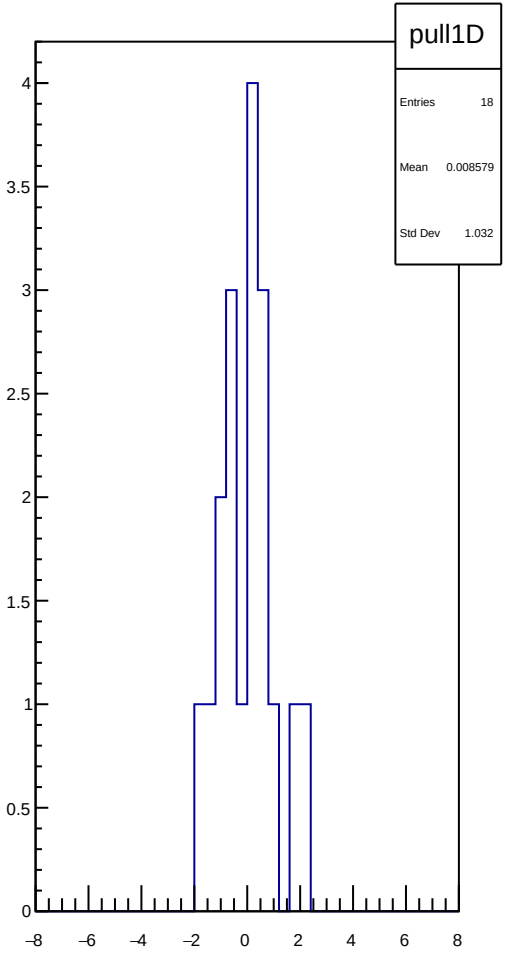

dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 3200 / 17
p0 87.04 ± 0.1517
130
120
110
100
90
80
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

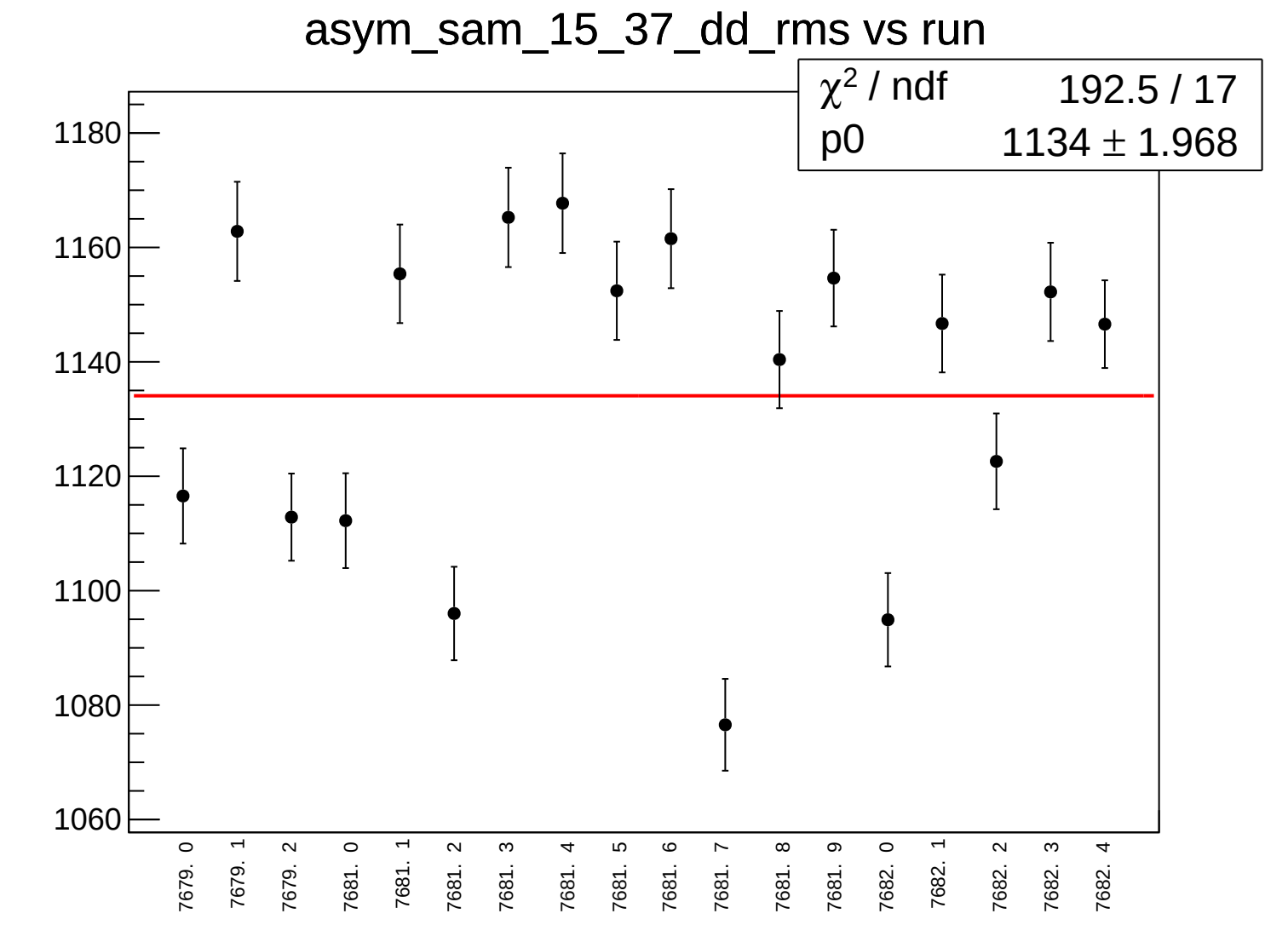

asym_sam_15_37_dd_correction_mean vs run
χ² / ndf 19.84 / 17
p0 −2801 ± 2720
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 38.2
Std Dev 35.22
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

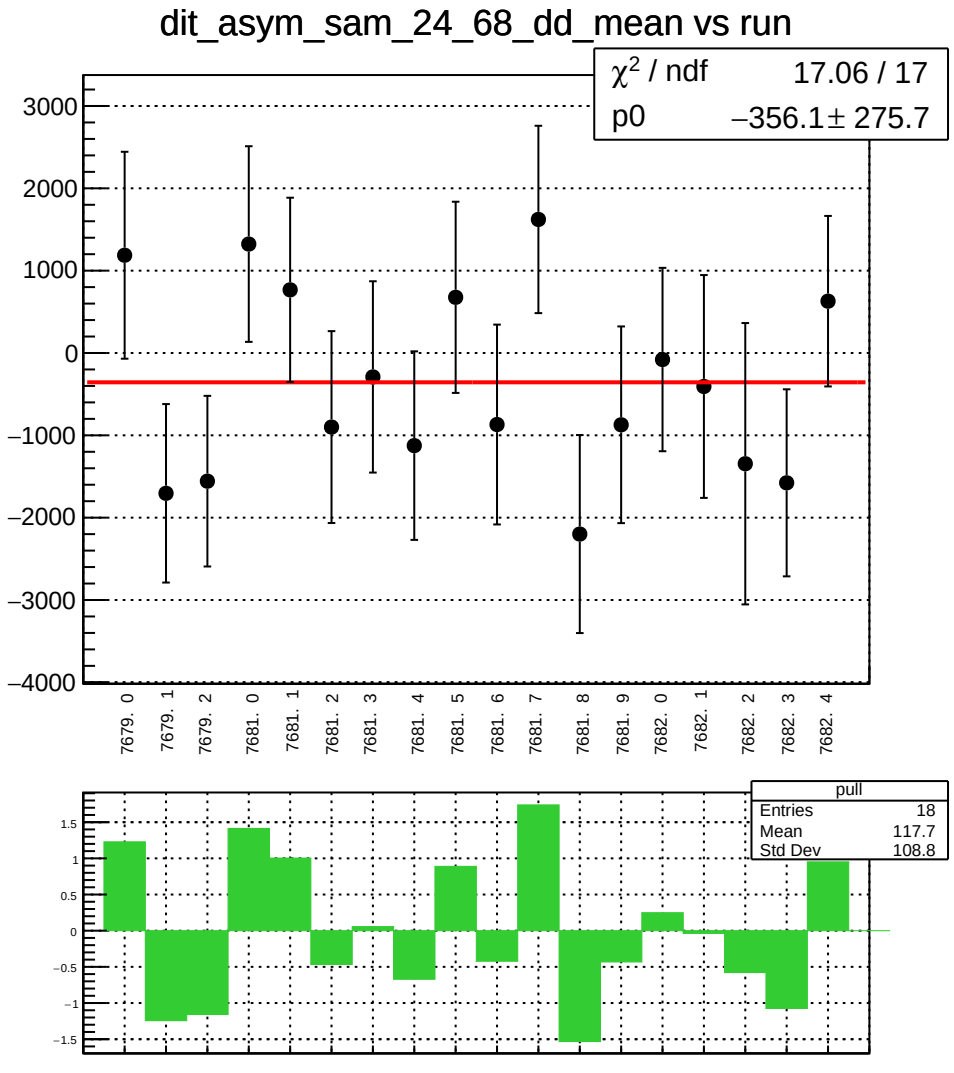

pull1D
Entries 18
Mean −0.009535
Std Dev 1.05
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

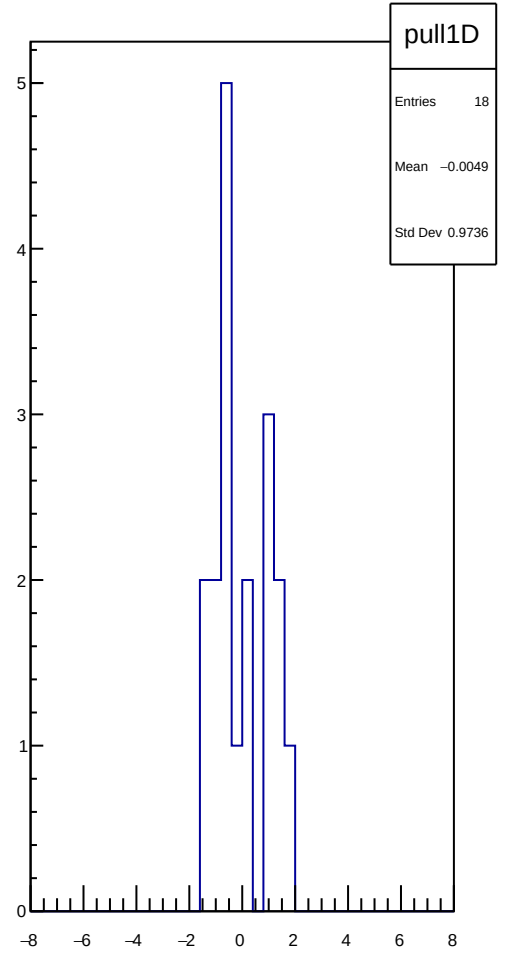

asym_sam_15_37_dd_correction_rms vs run
χ² / ndf 222.2 / 17
p0 1108 ± 1.923
1160
1140
1120
1100
1080
1060
1040
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

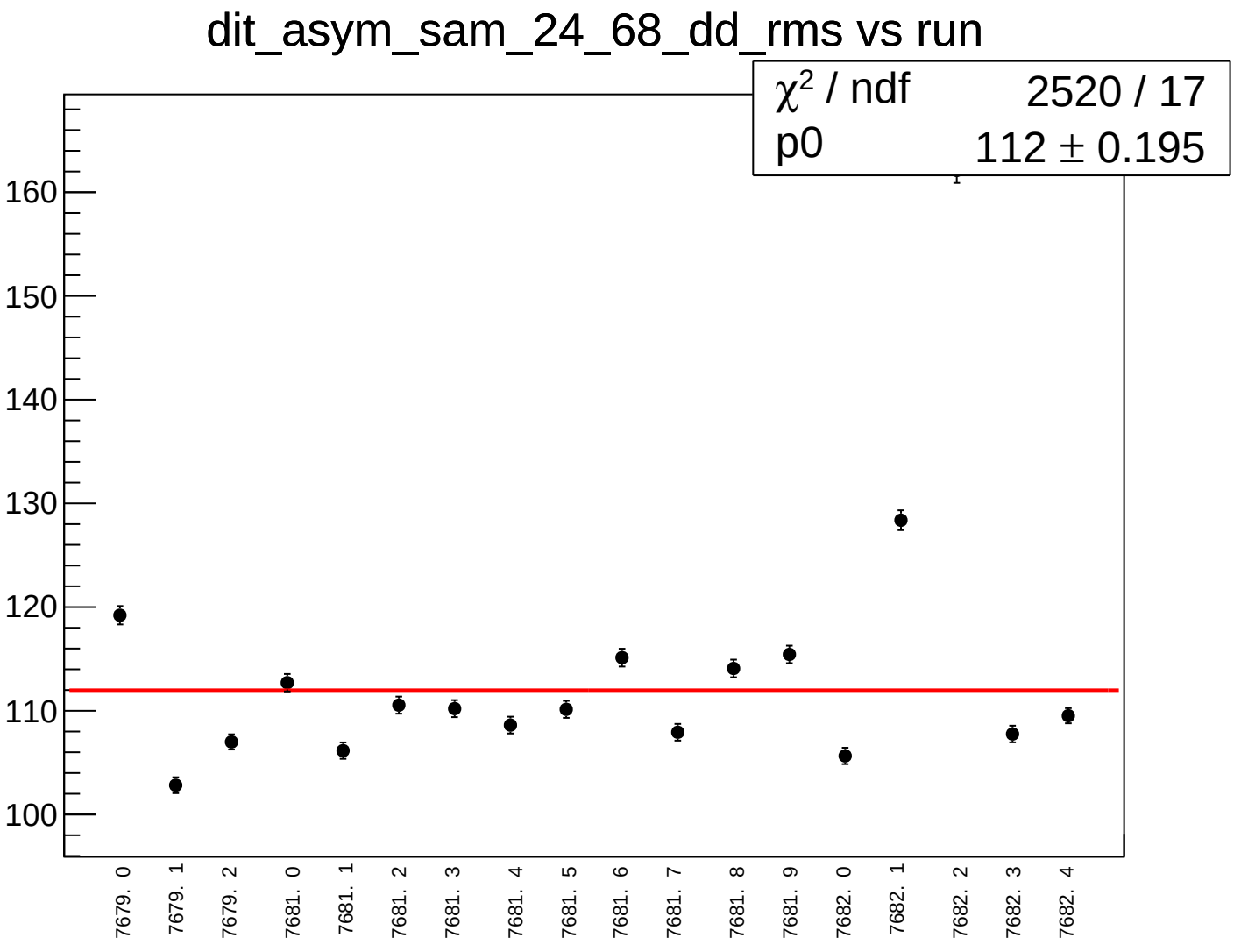

asym_sam_15_37_dd_mean vs run
χ² / ndf 19.18 / 17
p0 2854 ± 2783
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 50.11
Std Dev 45.39
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

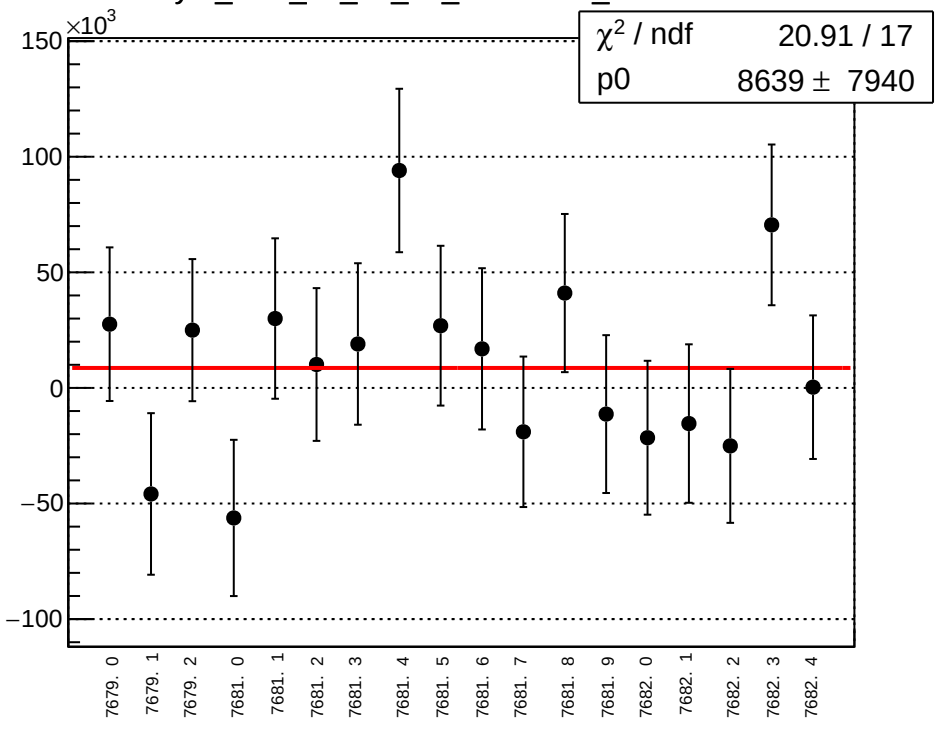

pull1D
Entries 18
Mean 0.008579
Std Dev 1.032
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

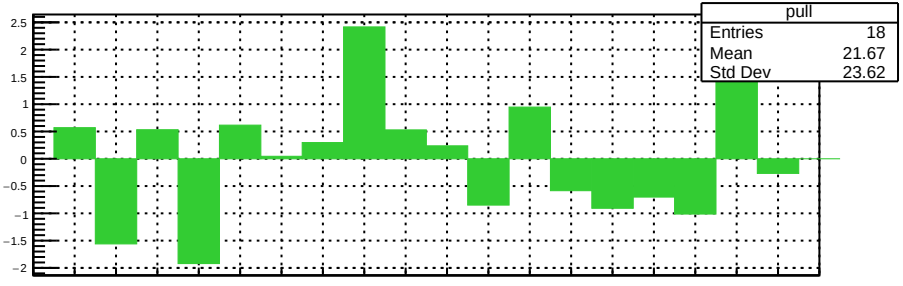

asym_sam_15_37_dd_rms vs run
χ² / ndf 192.5 / 17
p0 1134 ± 1.968
1180
1160
1140
1120
1100
1080
1060
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

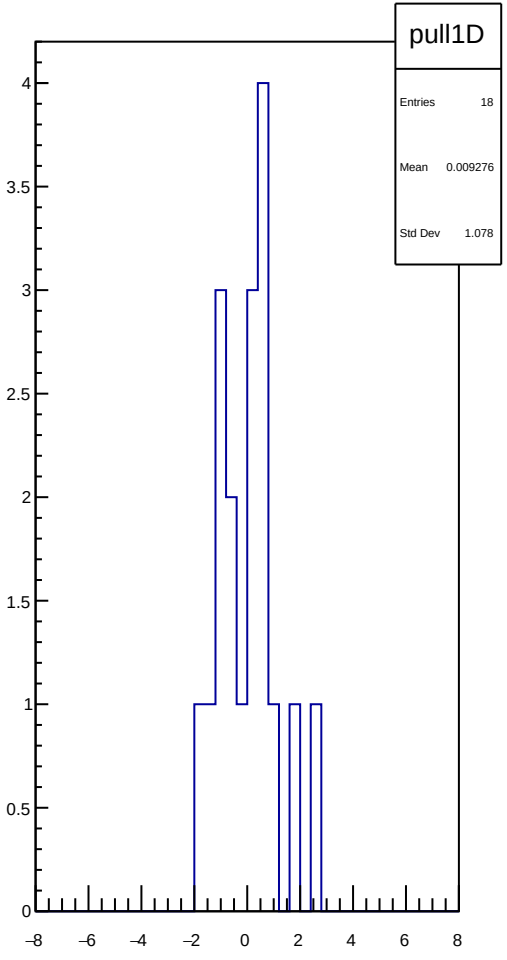

dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 17.06 / 17
p0 −356.1± 275.7
3000
2000
1000
0
−1000
−2000
−3000
−4000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 117.7
Std Dev 108.8
1.5
1
0.5
0
−0.5
−1
−1.5

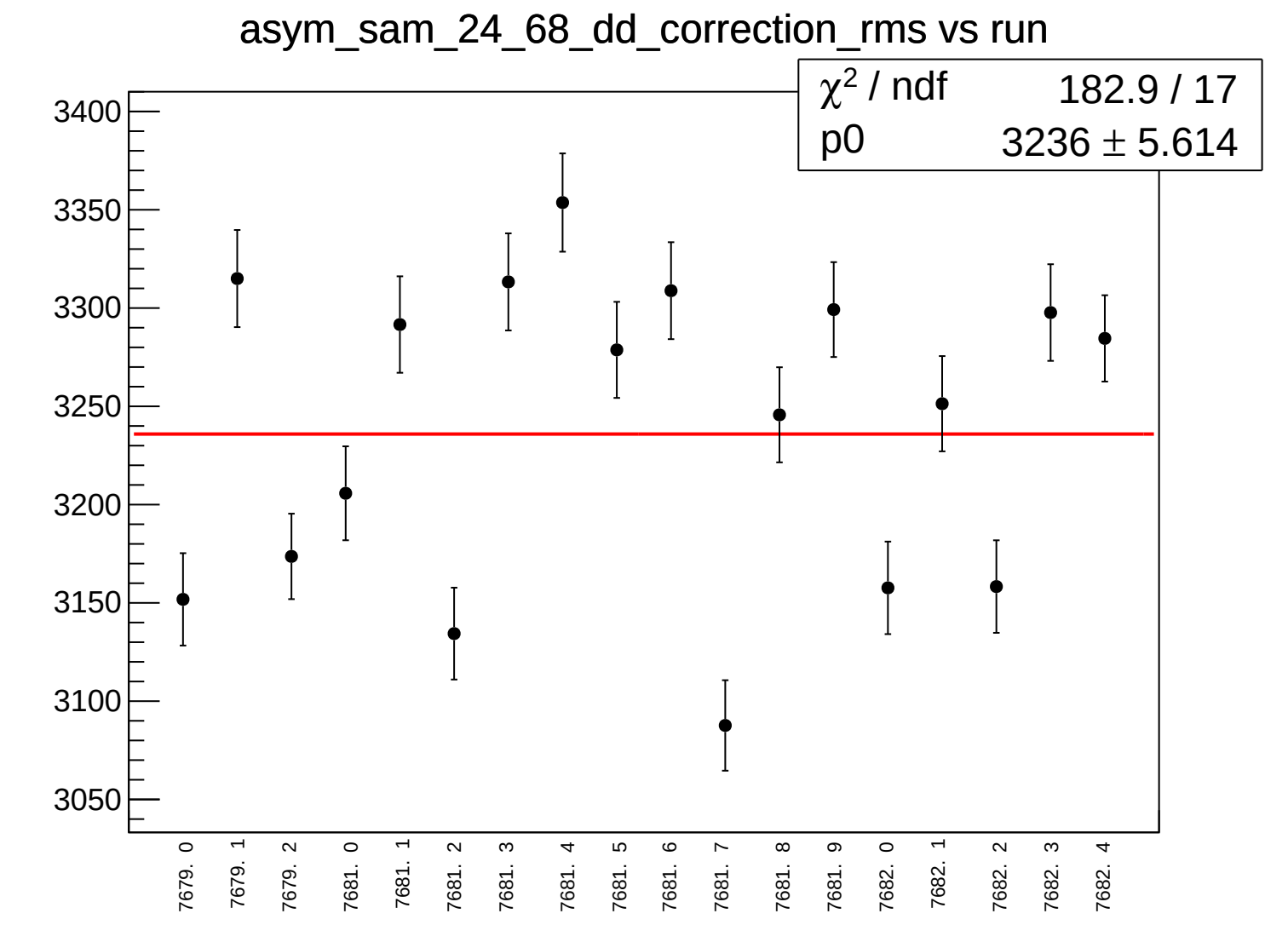

pull1D
Entries 18
Mean −0.0049
Std Dev 0.9736
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

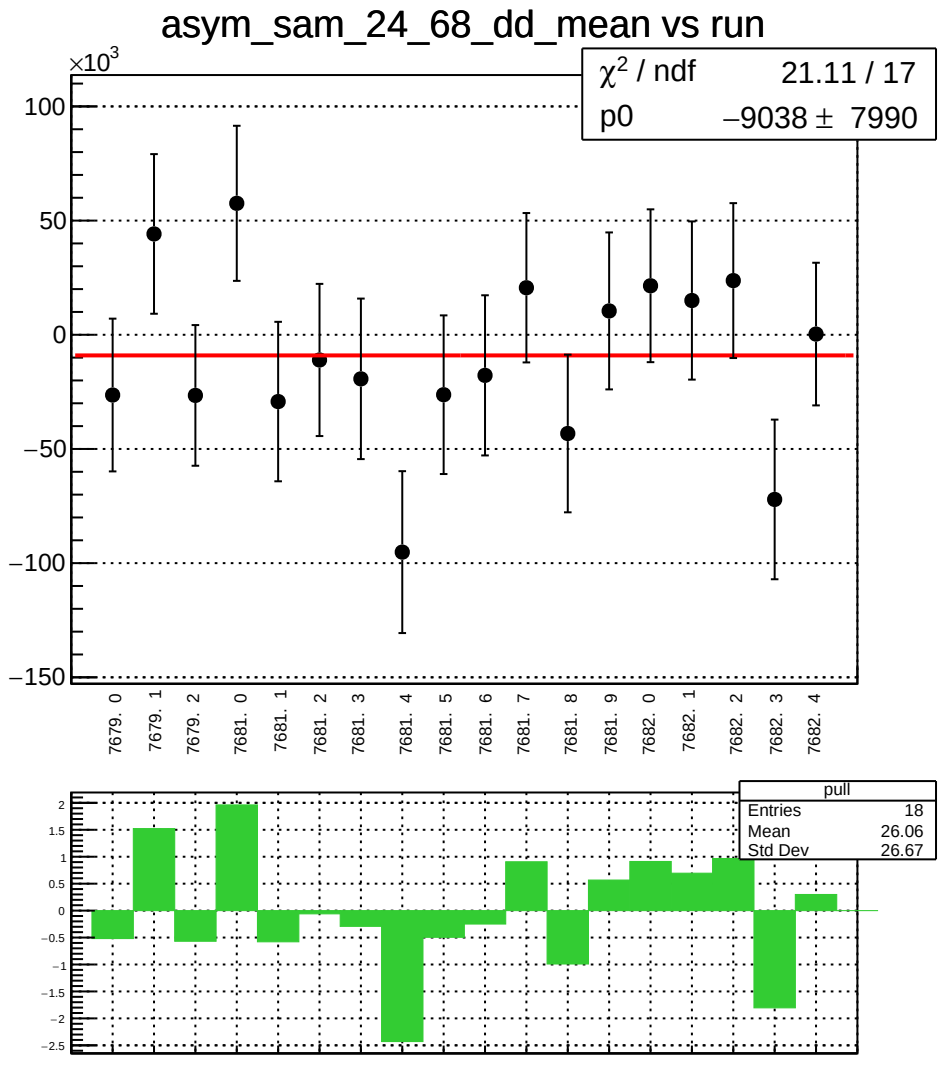

dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 2520 / 17
p0 112 ± 0.195
160
150
140
130
120
110
100
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

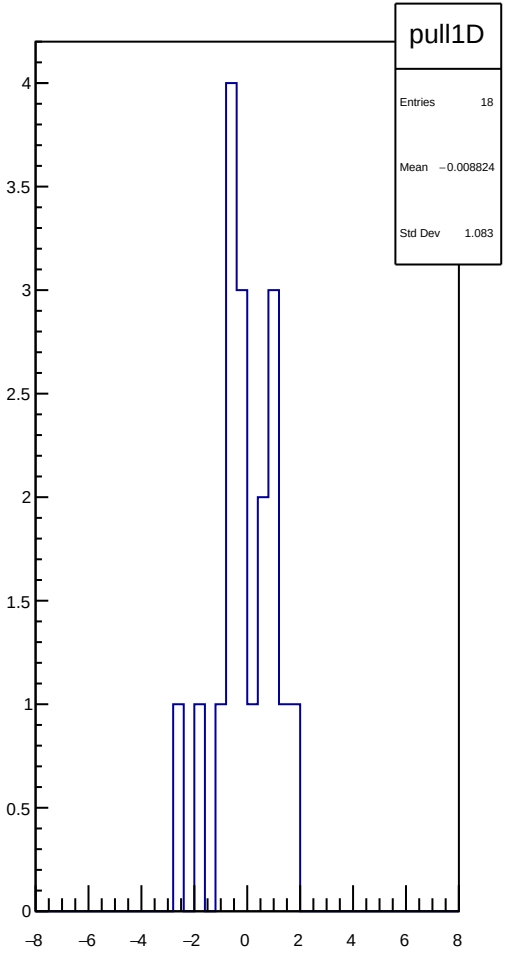

asym_sam_24_68_dd_correction_mean vs run
×10^3
χ^2 / ndf 20.91 / 17
p0 8639 ± 7940
150
100
50
0
−50
−100
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

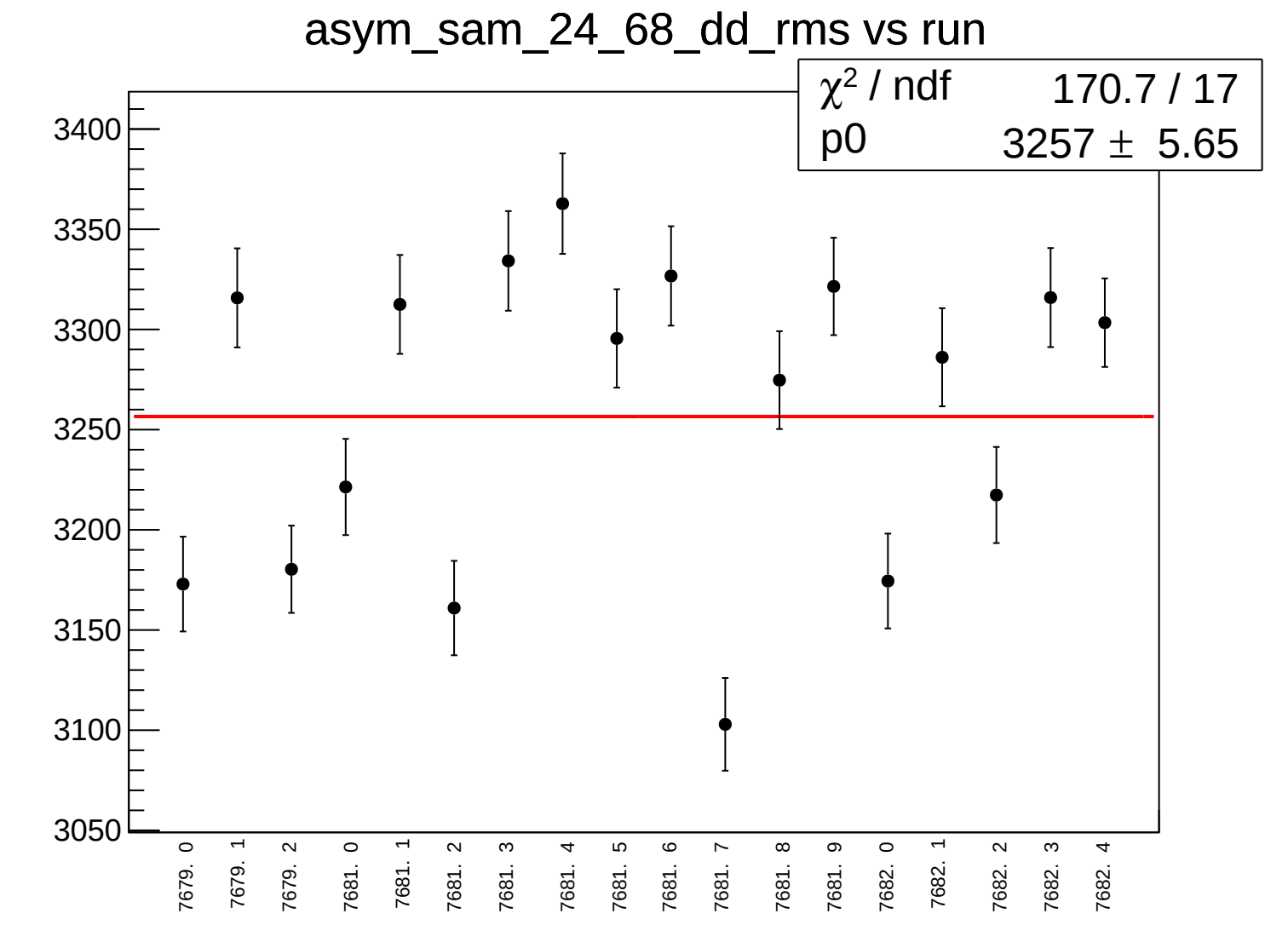

pull
Entries 18
Mean 21.67
Std Dev 23.62
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

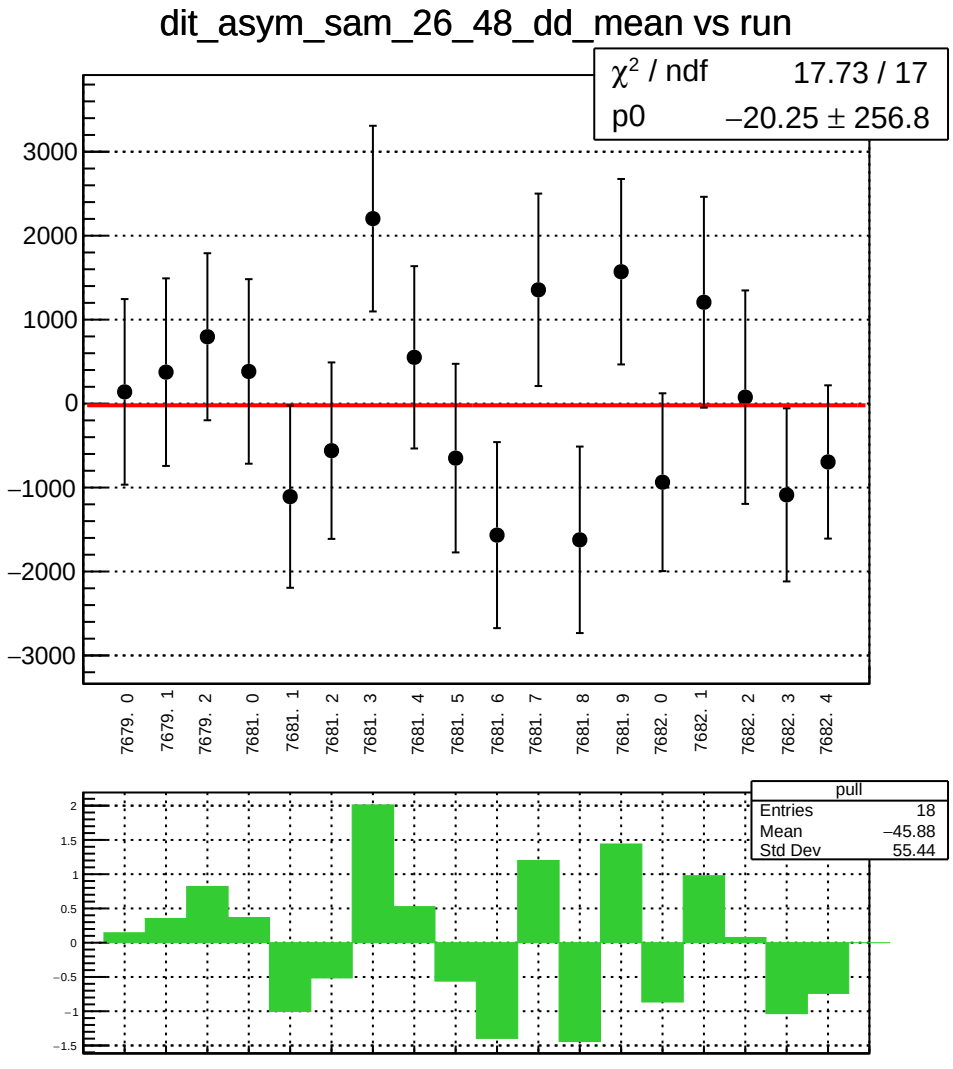

pull1D
Entries 18
Mean 0.009276
Std Dev 1.078
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

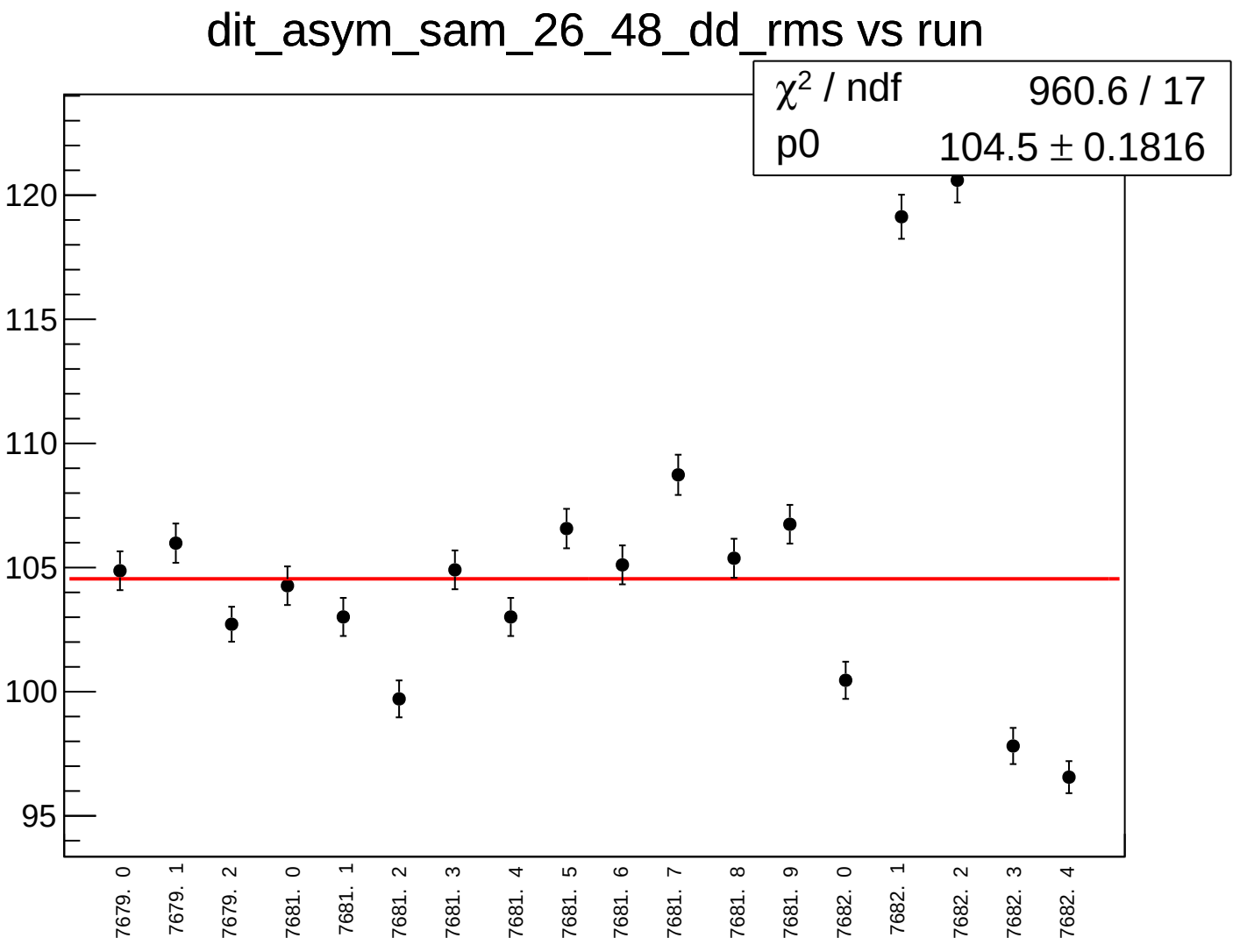

asym_sam_24_68_dd_correction_rms vs run
χ² / ndf 182.9 / 17
p0 3236 ± 5.614
3400
3350
3300
3250
3200
3150
3100
3050
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

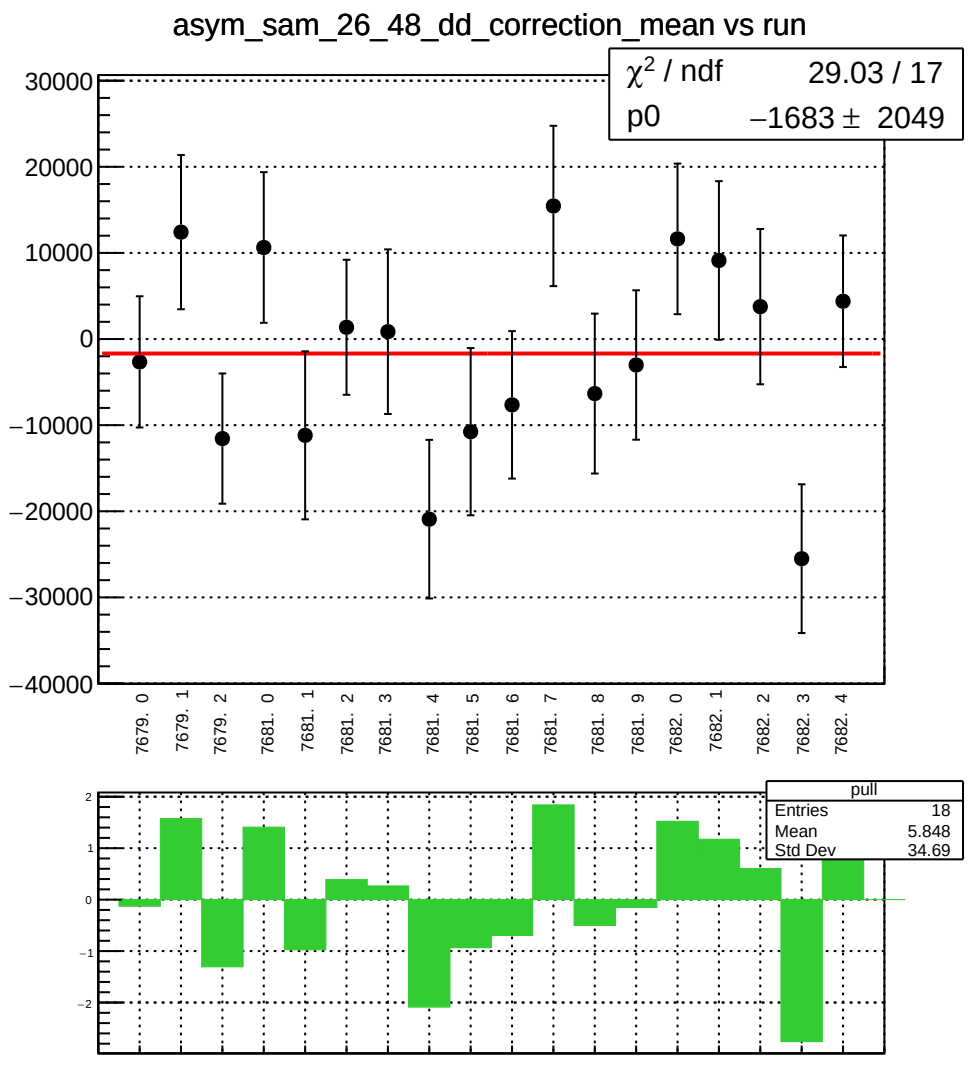

asym_sam_24_68_dd_mean vs run
×10^3
χ² / ndf 21.11 / 17
p0 −9038 ± 7990
100
50
0
−50
−100
−150
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 26.06
Std Dev 26.67
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

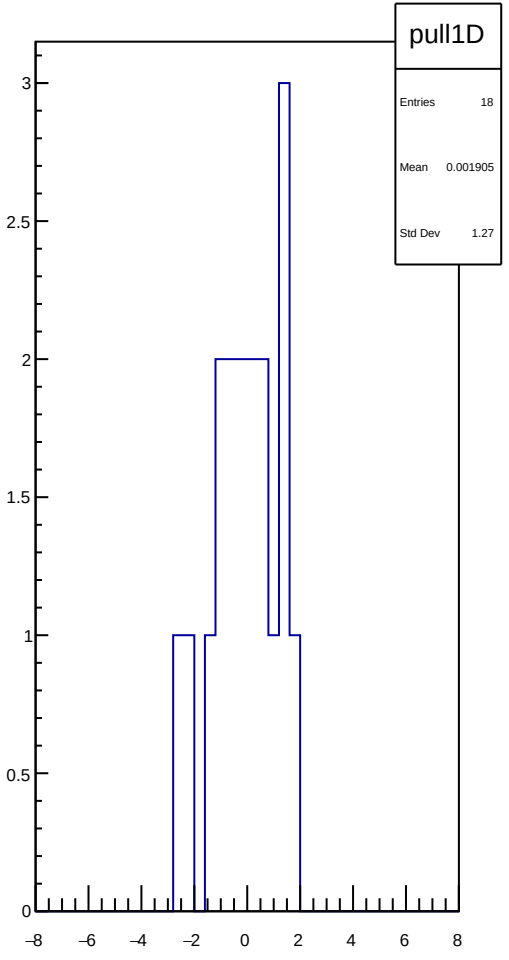

pull1D
Entries 18
Mean −0.008824
Std Dev 1.083
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

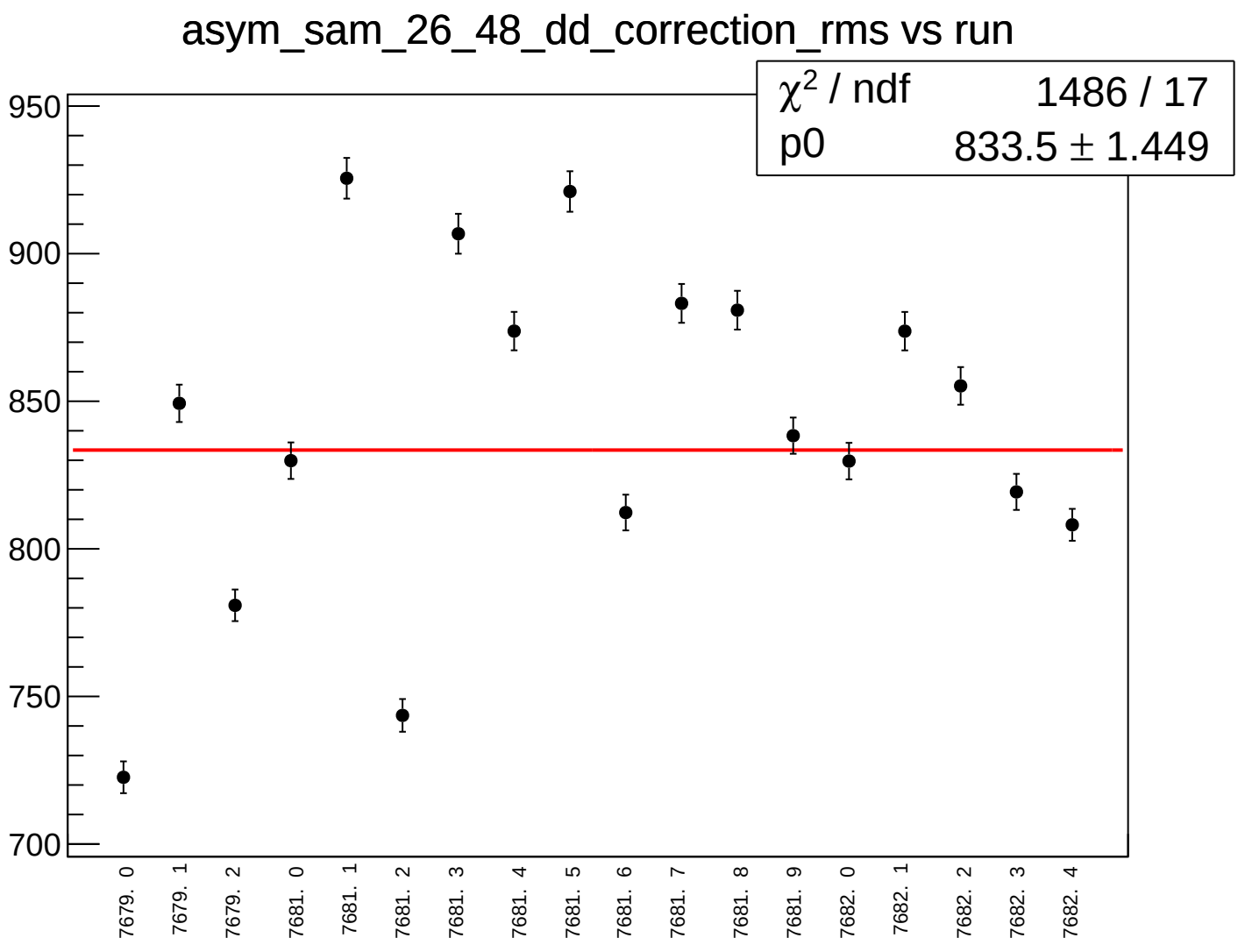

asym_sam_24_68_dd_rms vs run
χ² / ndf 170.7 / 17
p0 3257 ± 5.65
3400
3350
3300
3250
3200
3150
3100
3050
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

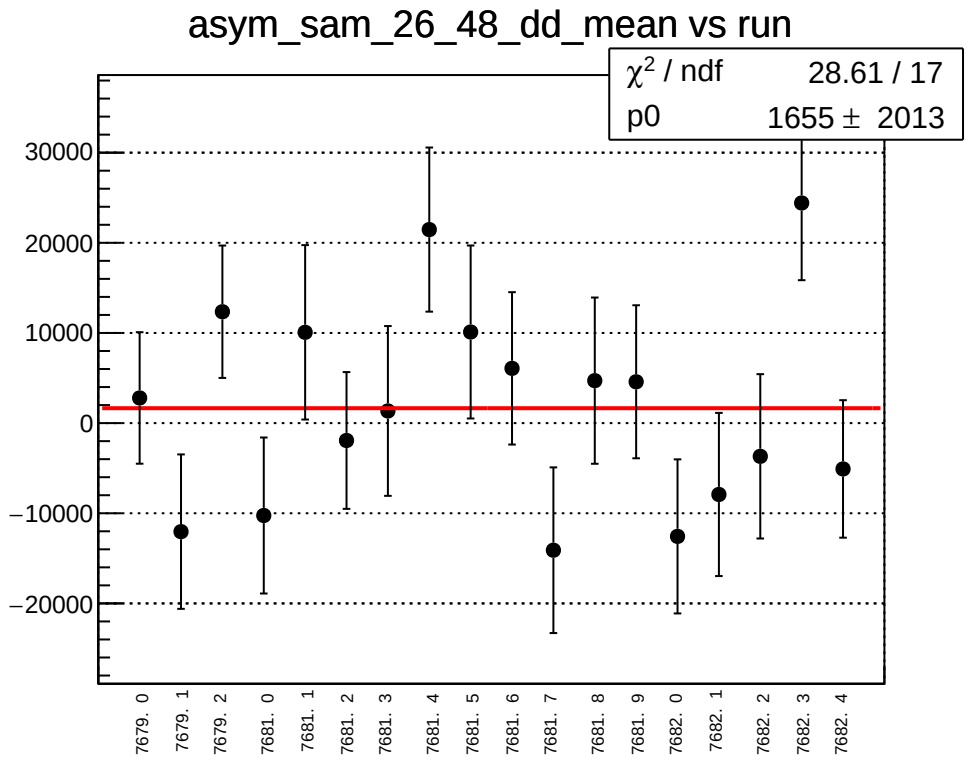

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 17.73 / 17
p0 −20.25 ± 256.8
3000
2000
1000
0
−1000
−2000
−3000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −45.88
Std Dev 55.44
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 18
Mean 0.02023
Std Dev 0.9922
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

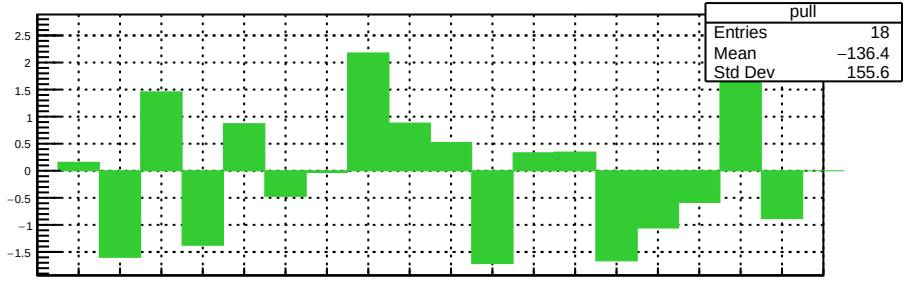

dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 960.6 / 17
p0 104.5 ± 0.1816
120
115
110
105
100
95
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

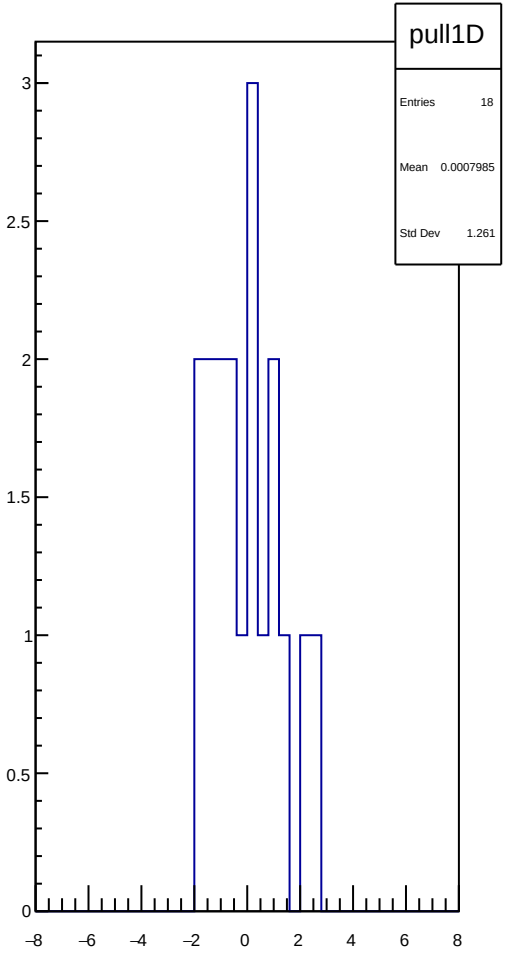

asym_sam_26_48_dd_correction_mean vs run
χ² / ndf 29.03 / 17
p0 −1683 ± 2049
30000
20000
10000
0
−10000
−20000
−30000
−40000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 5.848
Std Dev 34.69
2
1
0
−1
−2

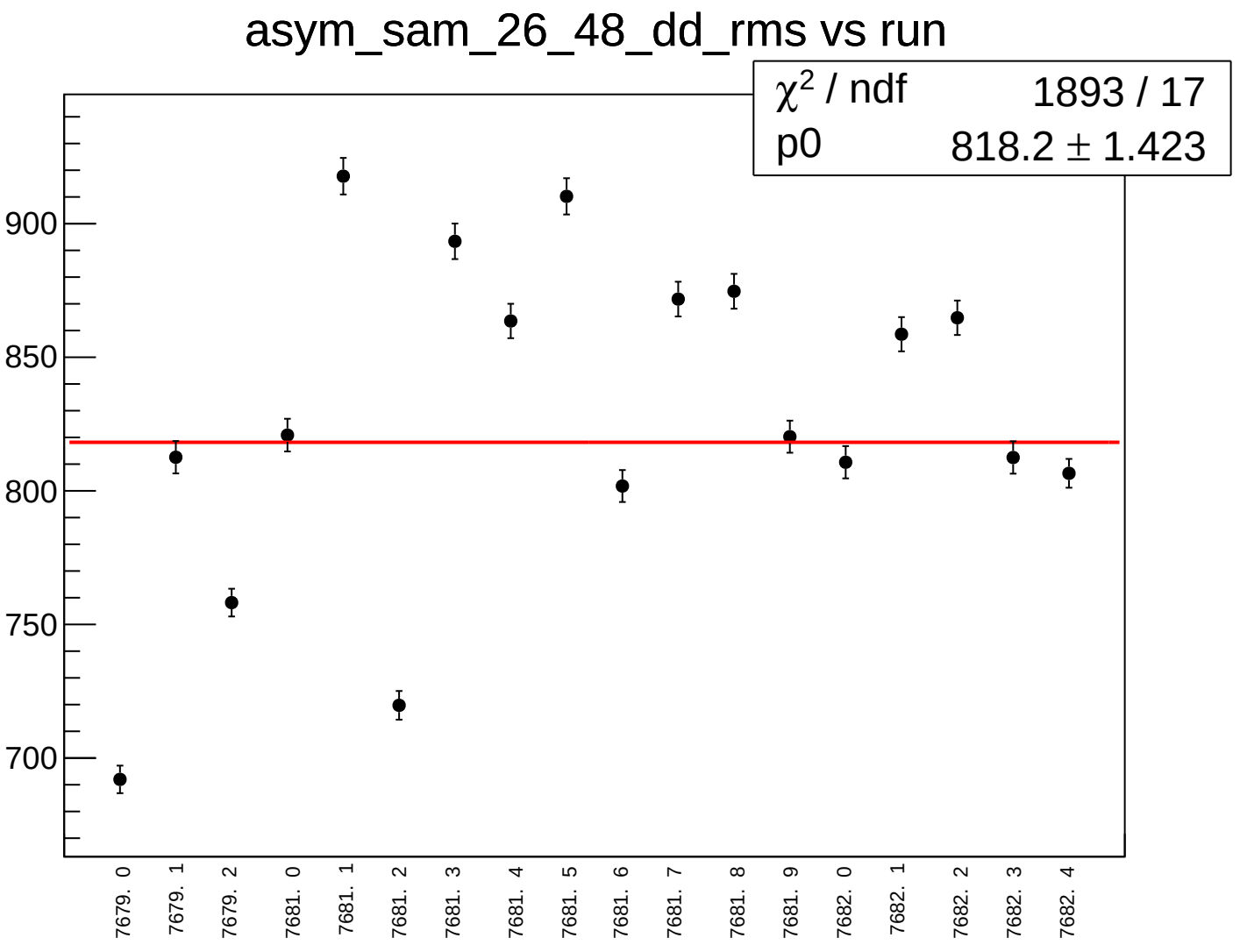

pull1D
Entries 18
Mean 0.001905
Std Dev 1.27
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

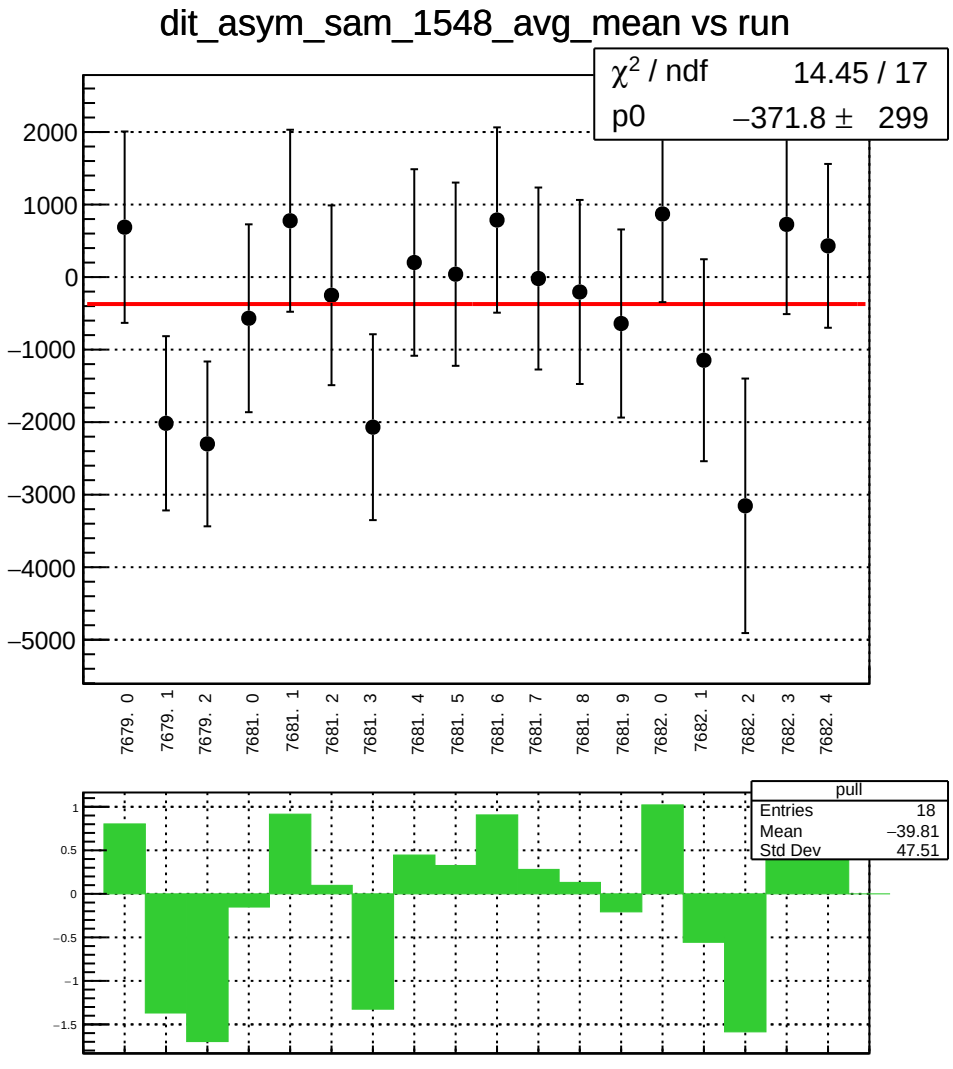

asym_sam_26_48_dd_correction_rms vs run
χ² / ndf 1486 / 17
p0 833.5 ± 1.449
950
900
850
800
750
700
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

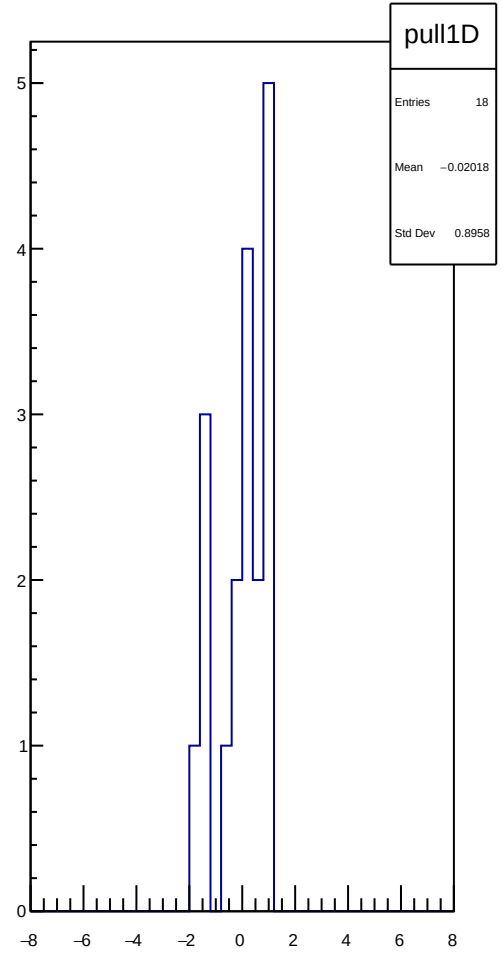

asym_sam_26_48_dd_mean vs run
χ² / ndf 28.61 / 17
p0 1655 ± 2013
30000
20000
10000
0
−10000
−20000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

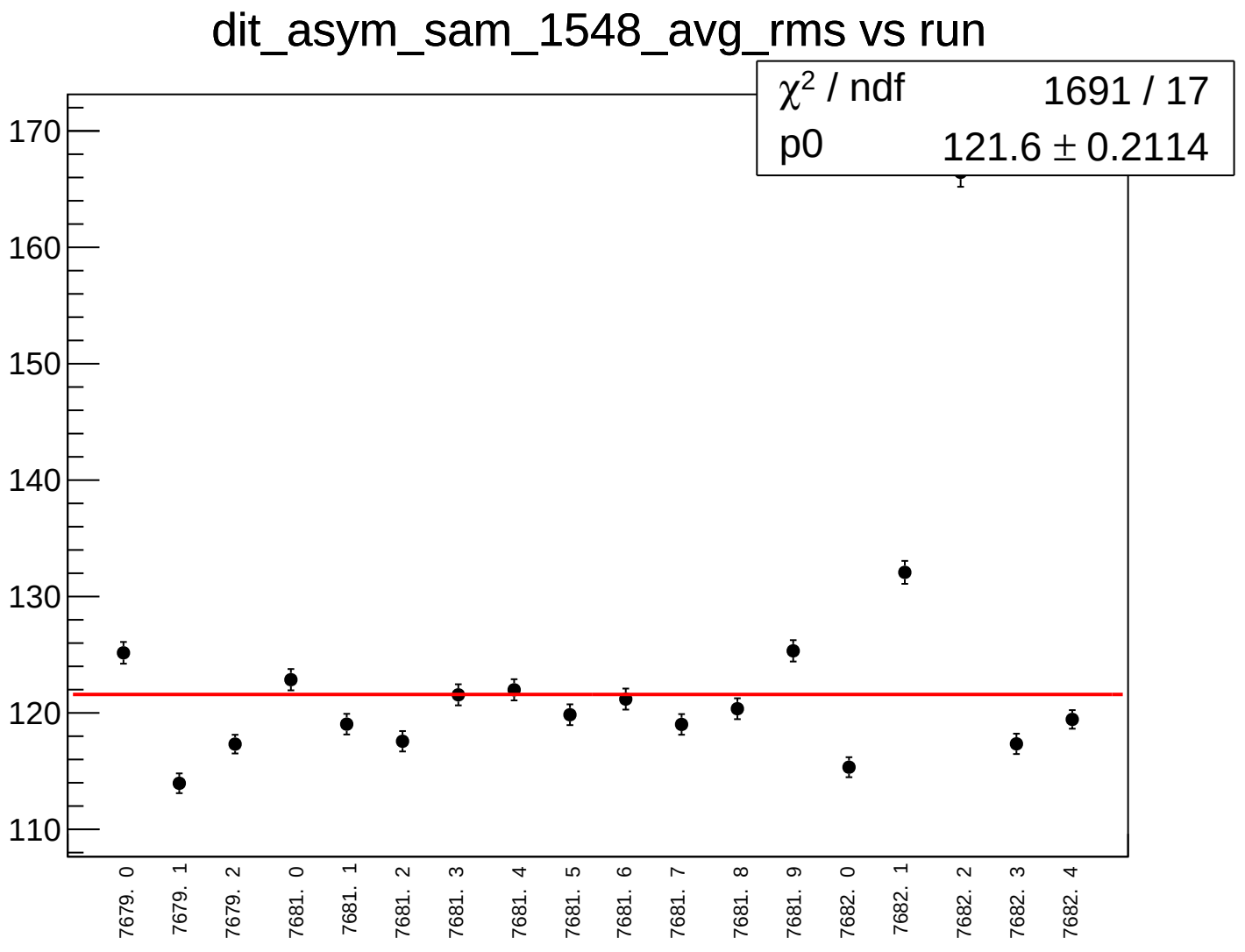

pull
Entries 18
Mean −136.4
Std Dev 155.6
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

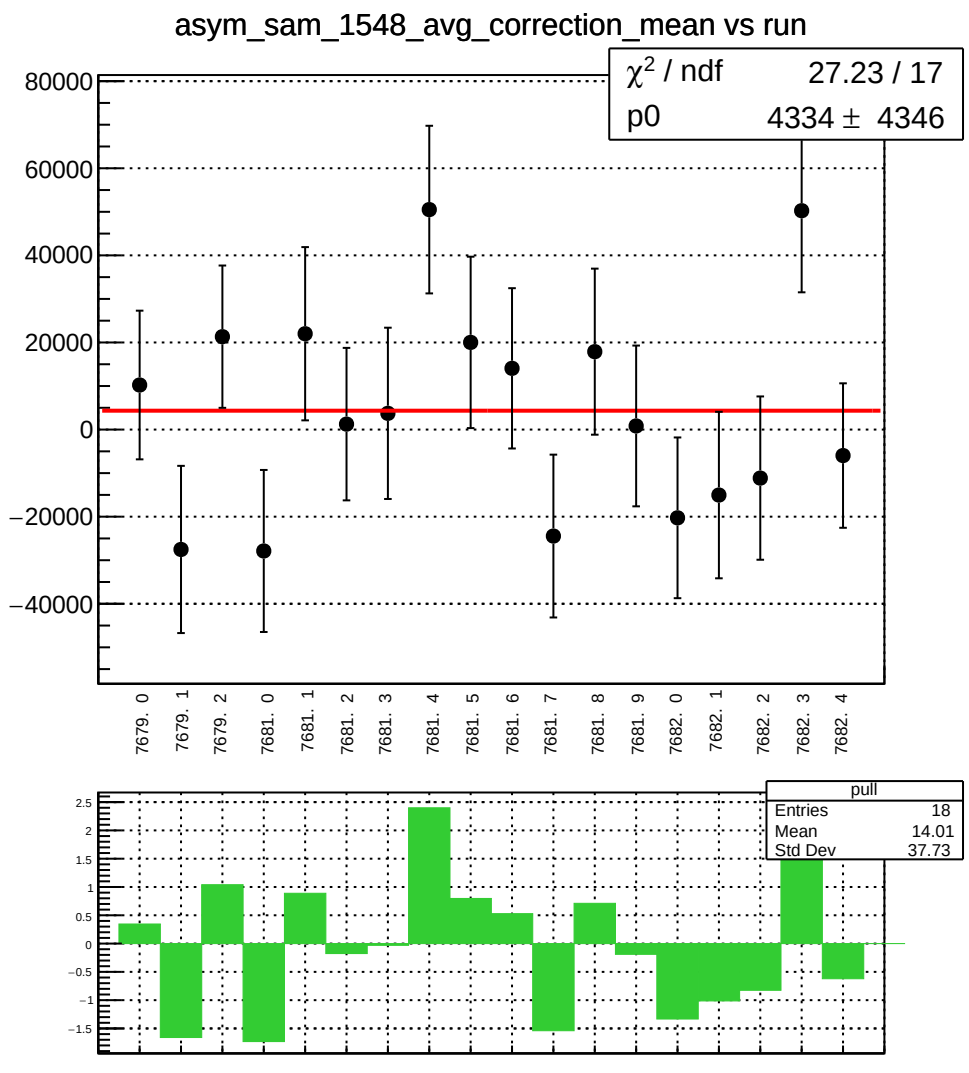

pull1D
Entries 18
Mean 0.0007985
Std Dev 1.261
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

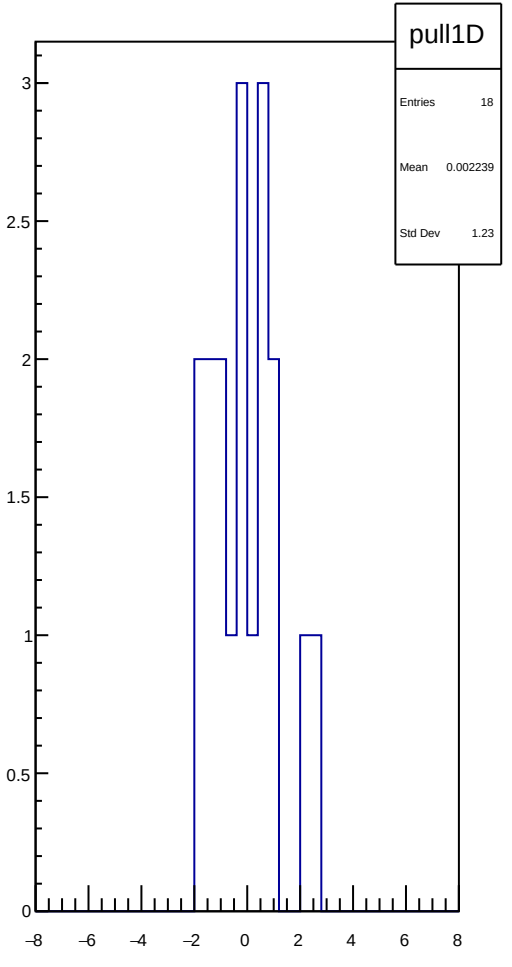

asym_sam_26_48_dd_rms vs run
χ² / ndf 1893 / 17
p0 818.2 ± 1.423
900
850
800
750
700
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

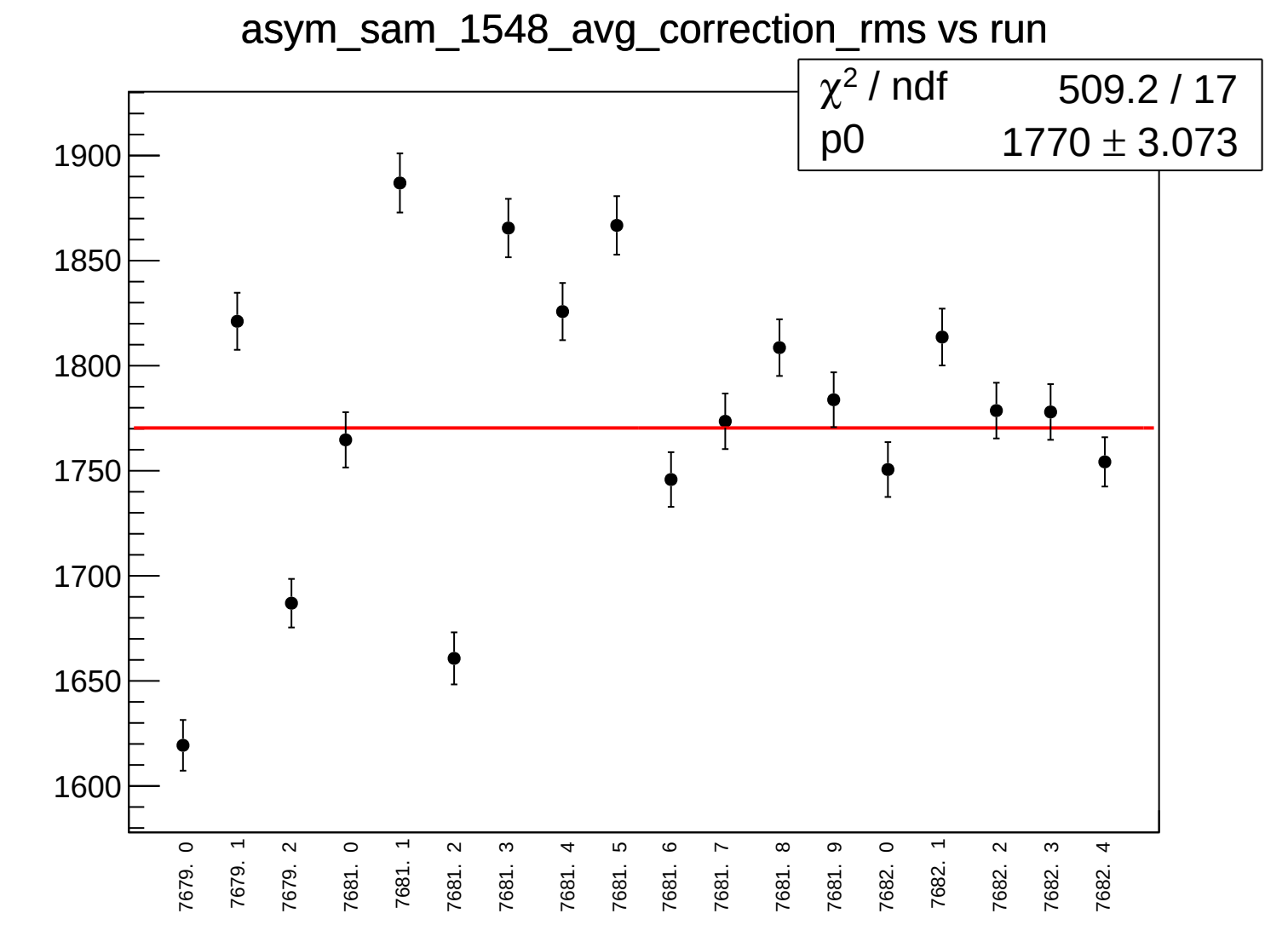

dit_asym_sam_1548_avg_mean vs run
χ² / ndf 14.45 / 17
p0 −371.8 ± 299
2000
1000
0
−1000
−2000
−3000
−4000
−5000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −39.81
Std Dev 47.51
1
0.5
0
−0.5
−1
−1.5

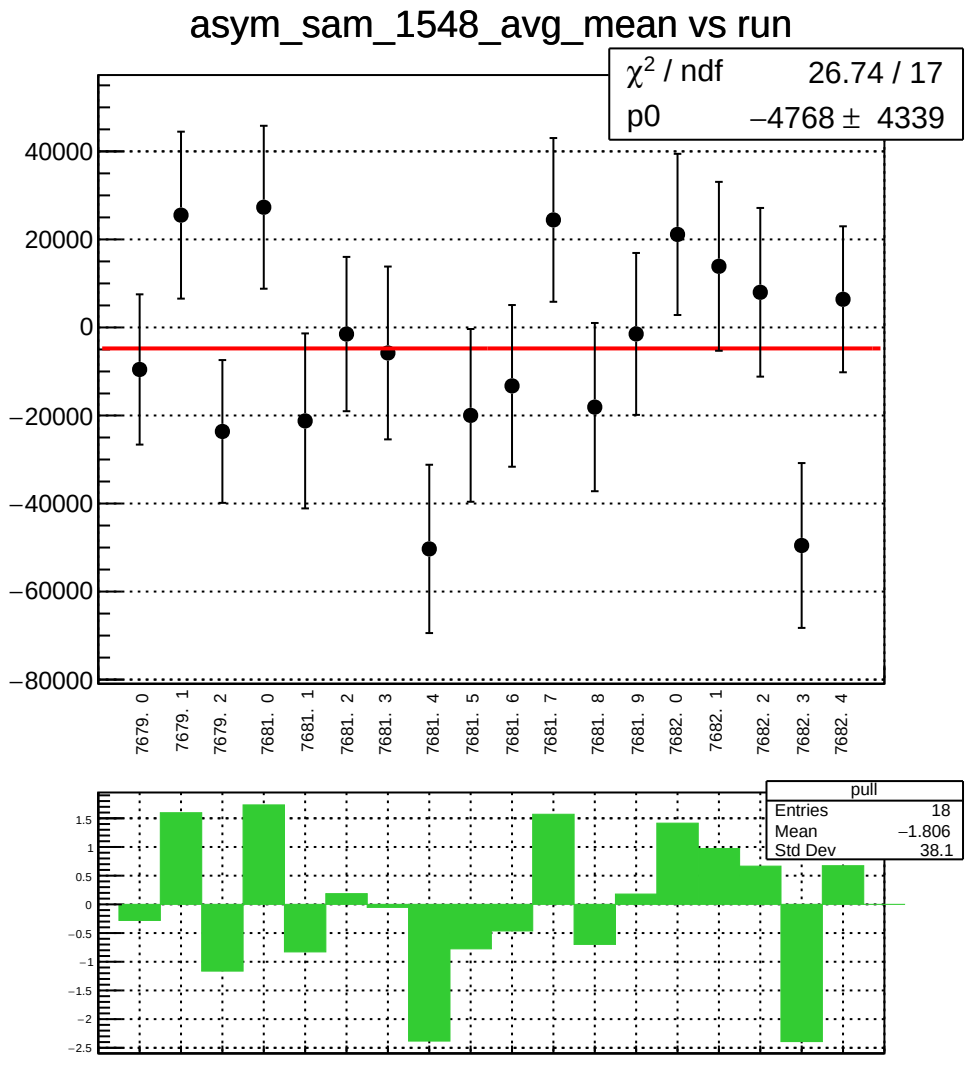

pull1D
Entries 18
Mean −0.02018
Std Dev 0.8958
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

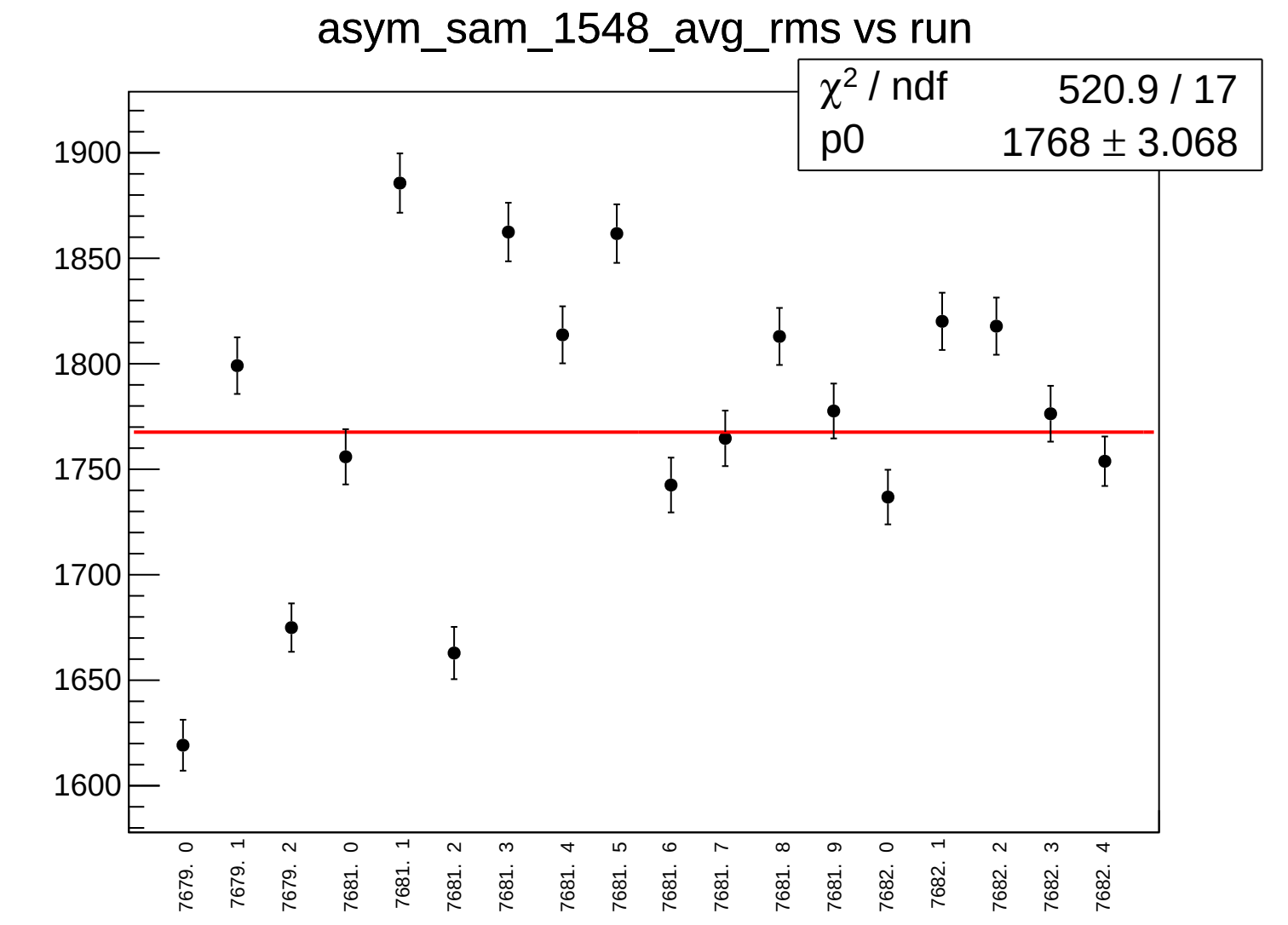

dit_asym_sam_1548_avg_rms vs run
χ² / ndf 1691 / 17
p0 121.6 ± 0.2114
170
160
150
140
130
120
110
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

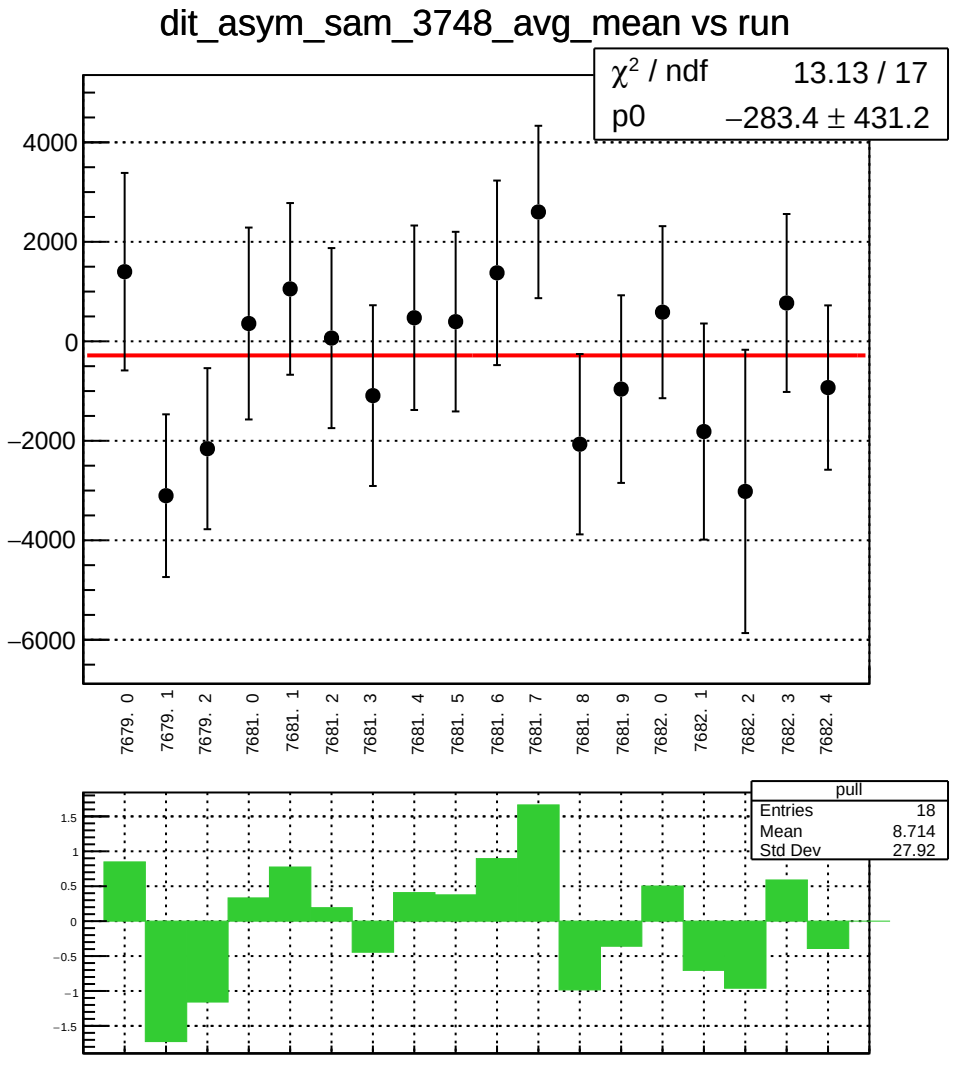

asym_sam_1548_avg_correction_mean vs run
χ² / ndf 27.23 / 17
p0 4334 ± 4346
80000
60000
40000
20000
0
−20000
−40000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 14.01
Std Dev 37.73
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

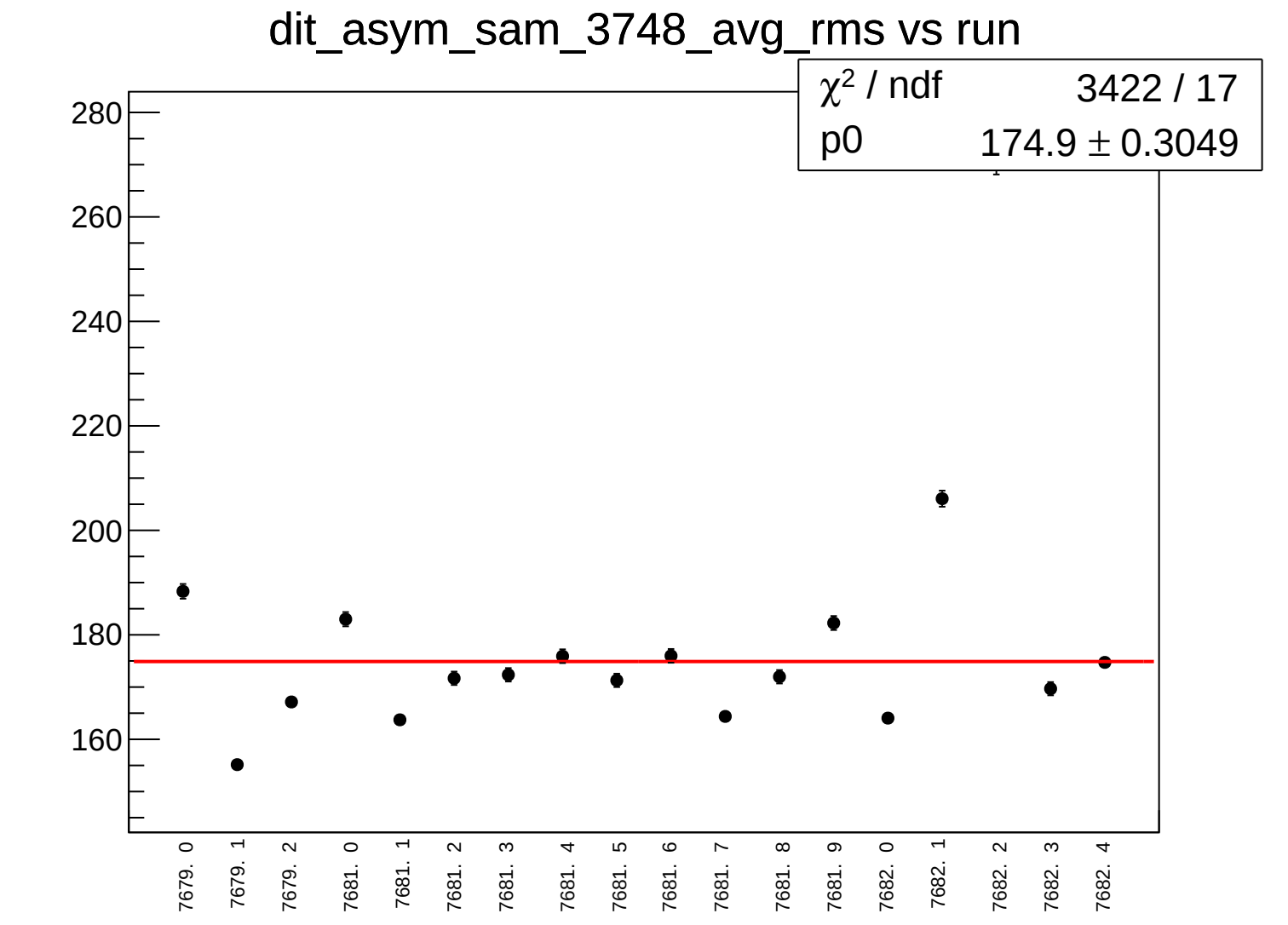

pull1D
Entries 18
Mean 0.002239
Std Dev 1.23
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

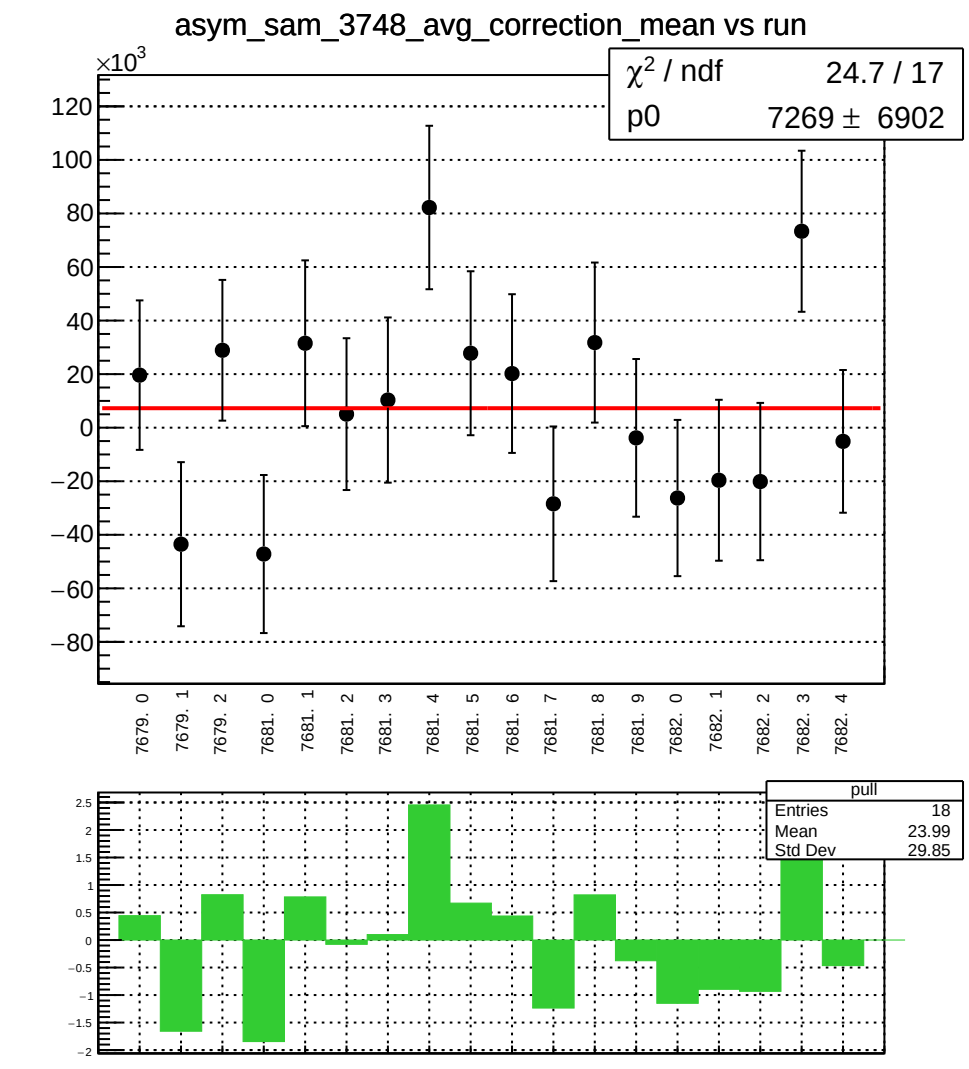

asym_sam_1548_avg_correction_rms vs run
χ² / ndf 509.2 / 17
p0 1770 ± 3.073
1900
1850
1800
1750
1700
1650
1600
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

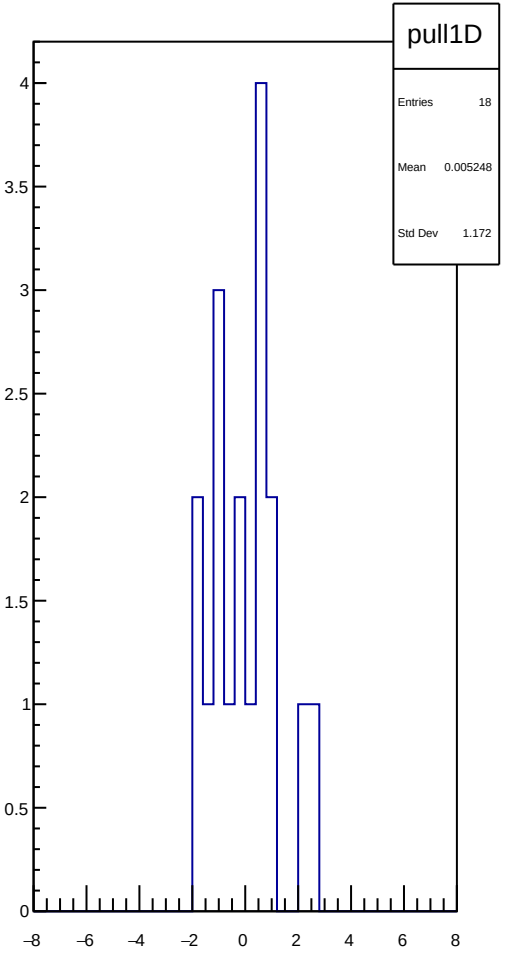

asym_sam_1548_avg_mean vs run
χ² / ndf 26.74 / 17
p0 −4768 ± 4339
40000
20000
0
−20000
−40000
−60000
−80000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −1.806
Std Dev 38.1
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 18
Mean −0.002253
Std Dev 1.219
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

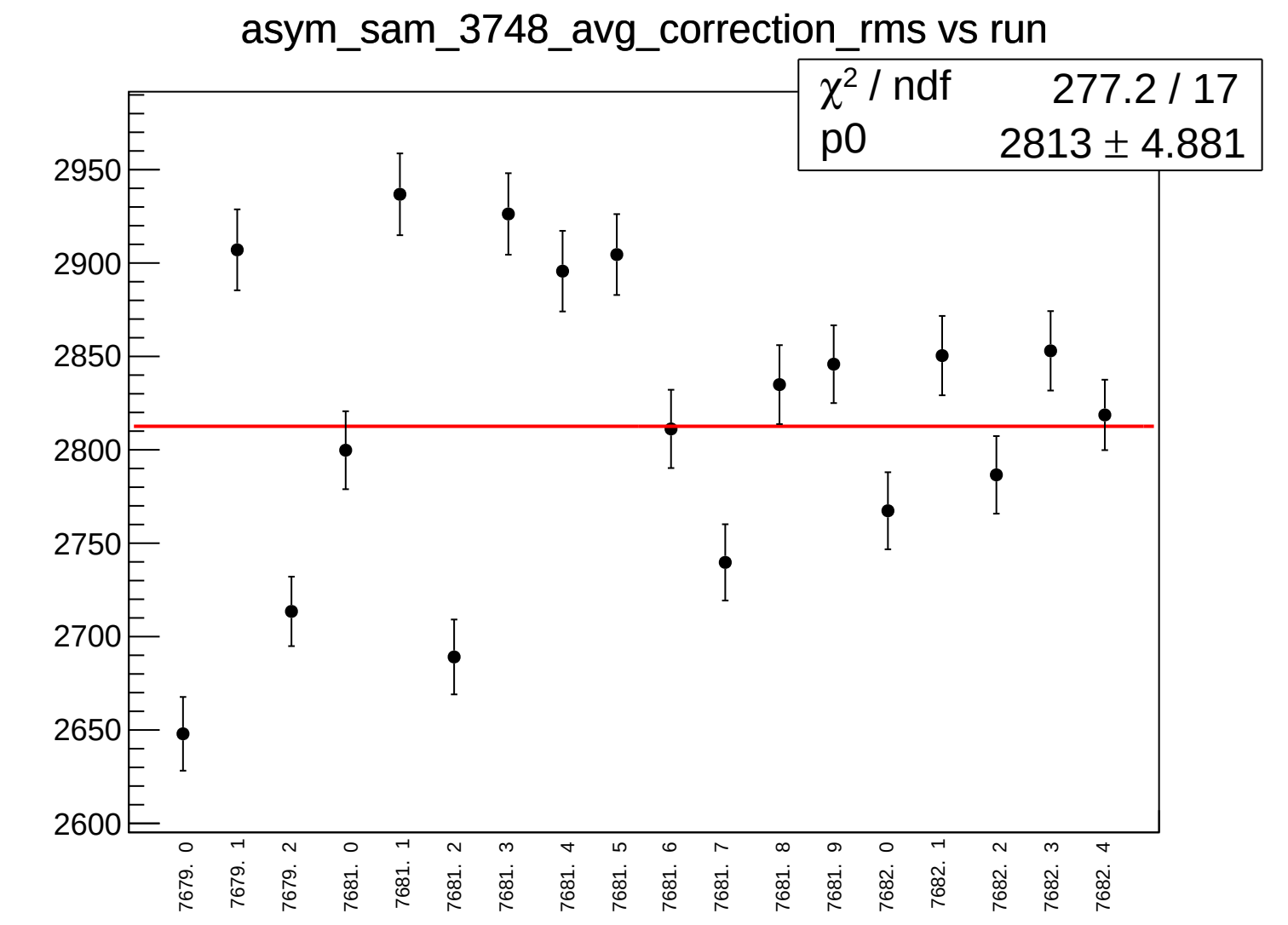

asym_sam_1548_avg_rms vs run
χ^2 / ndf 520.9 / 17
p0 1768 ± 3.068
1900
1850
1800
1750
1700
1650
1600
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

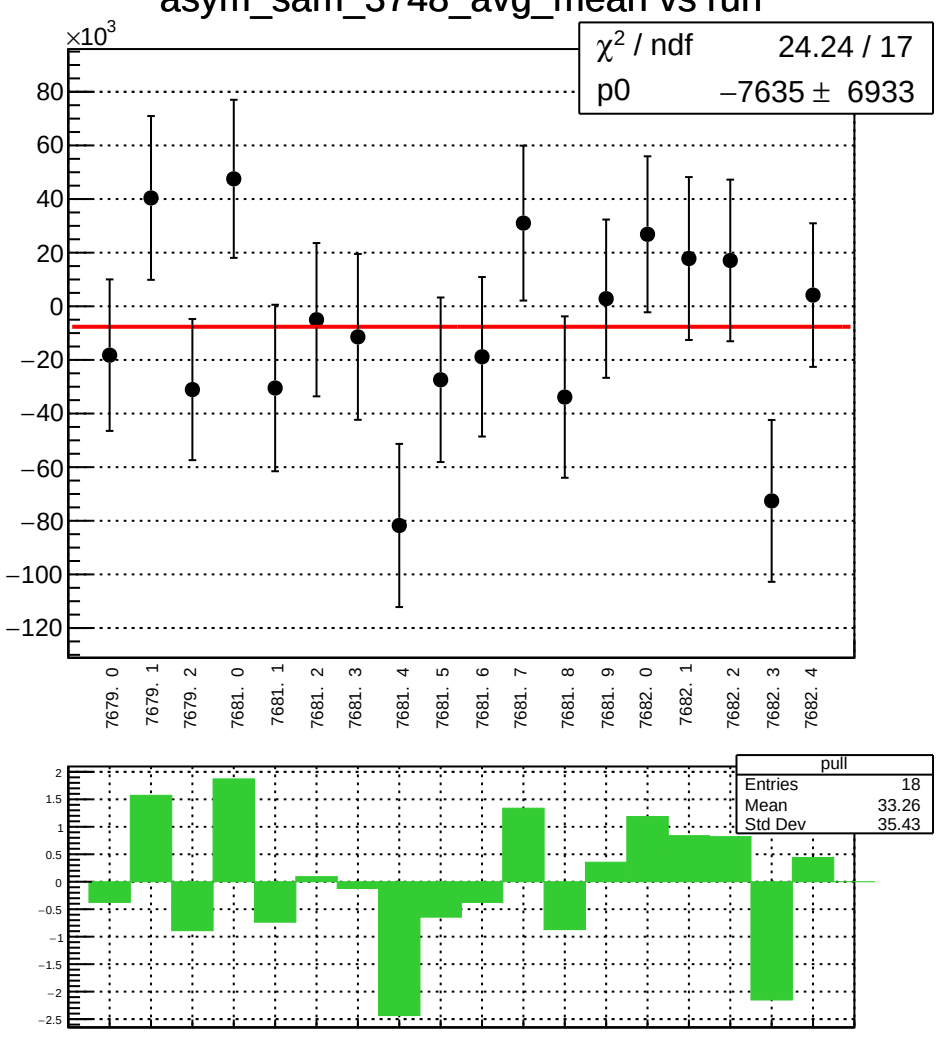

dit_asym_sam_3748_avg_mean vs run
χ² / ndf 13.13 / 17
p0 −283.4 ± 431.2
4000
2000
0
−2000
−4000
−6000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 8.714
Std Dev 27.92
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 18
Mean −0.007963
Std Dev 0.854
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

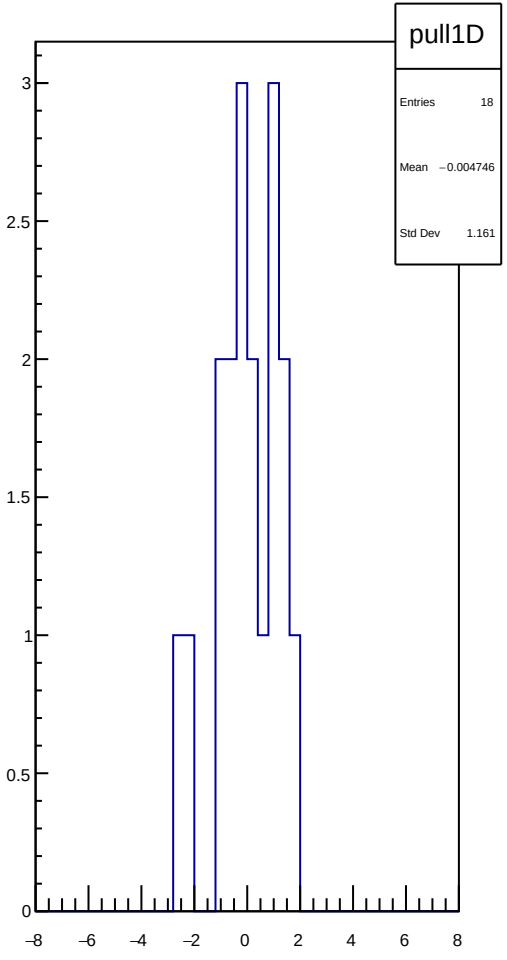

dit_asym_sam_3748_avg_rms vs run
χ² / ndf 3422 / 17
p0 174.9 ± 0.3049
280
260
240
220
200
180
160
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

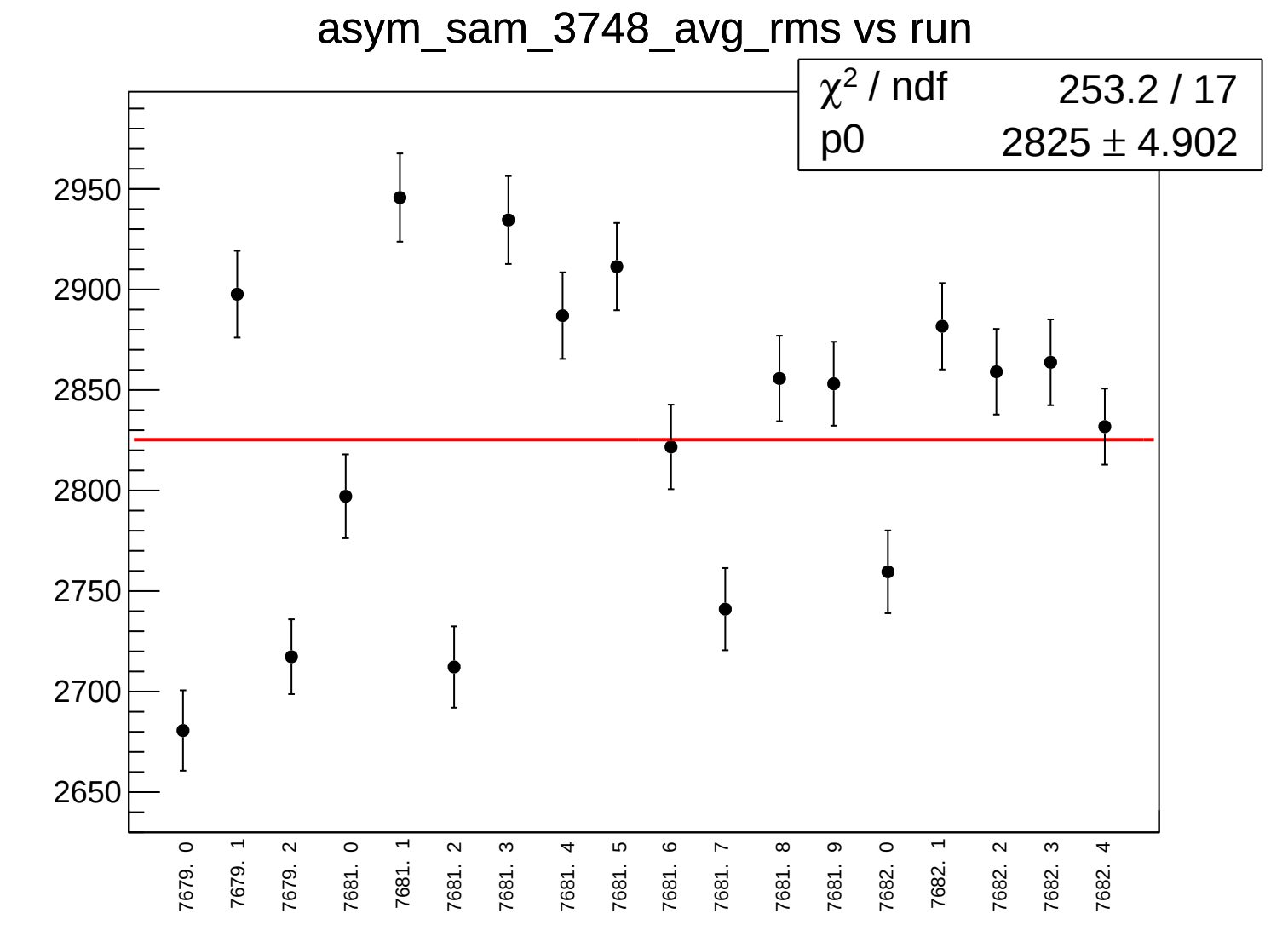

asym_sam_3748_avg_correction_mean vs run
×10^3
χ^2 / ndf 24.7 / 17
p0 7269 ± 6902
120
100
80
60
40
20
0
−20
−40
−60
−80
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 23.99
Std Dev 29.85
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

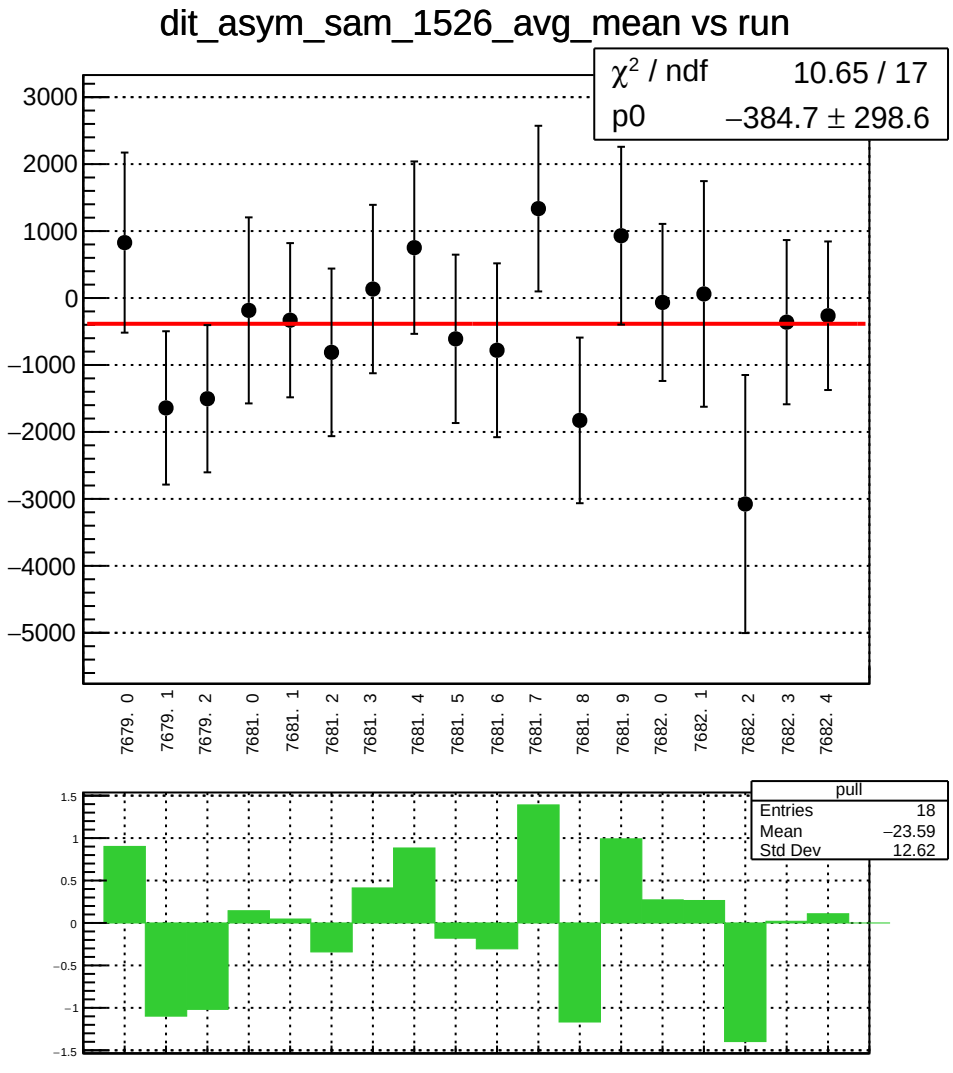

pull1D
Entries 18
Mean 0.005248
Std Dev 1.172
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

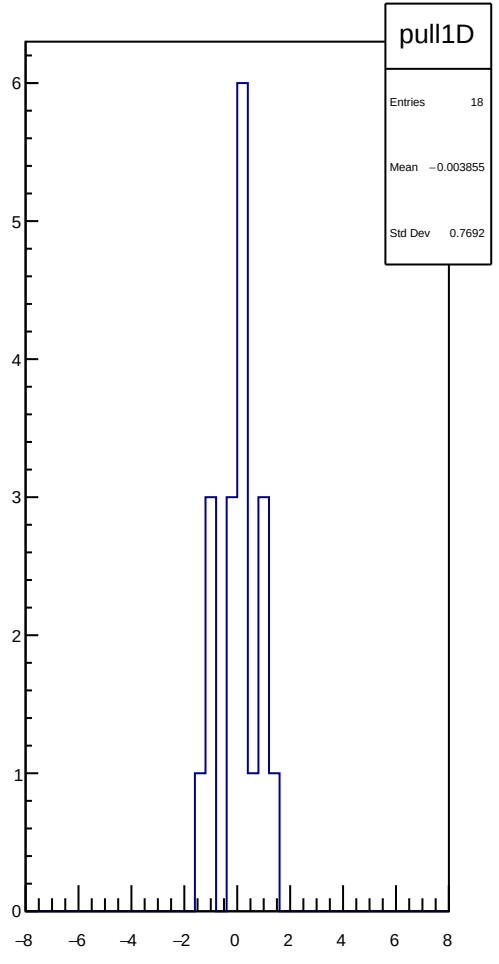

asym_sam_3748_avg_correction_rms vs run
χ² / ndf 277.2 / 17
p0 2813 ± 4.881
2950
2900
2850
2800
2750
2700
2650
2600
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

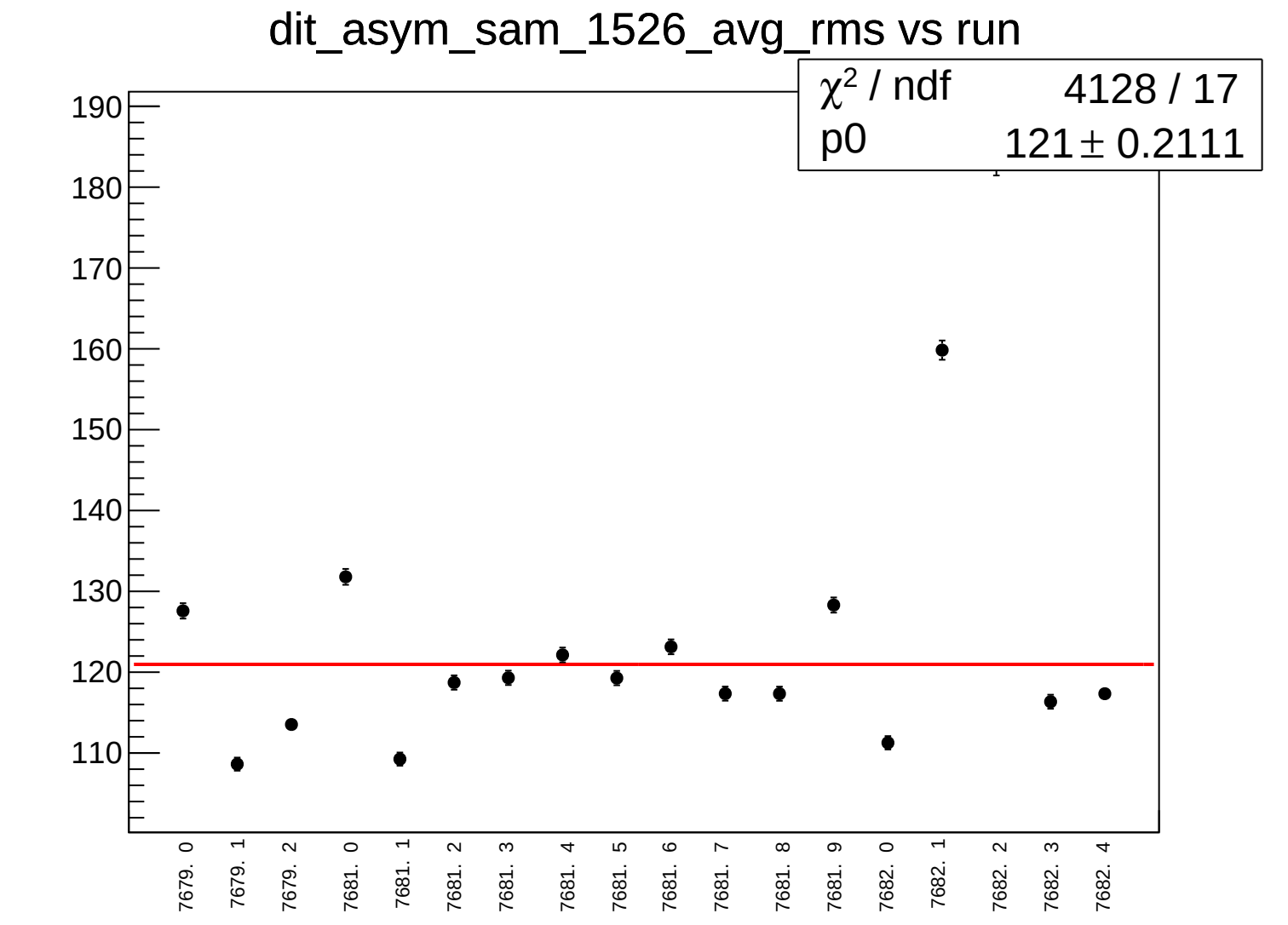

asym_sam_3748_avg_mean vs run
×10^3
χ^2 / ndf 24.24 / 17
p0 −7635 ± 6933
80
60
40
20
0
−20
−40
−60
−80
−100
−120
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 33.26
Std Dev 35.43
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

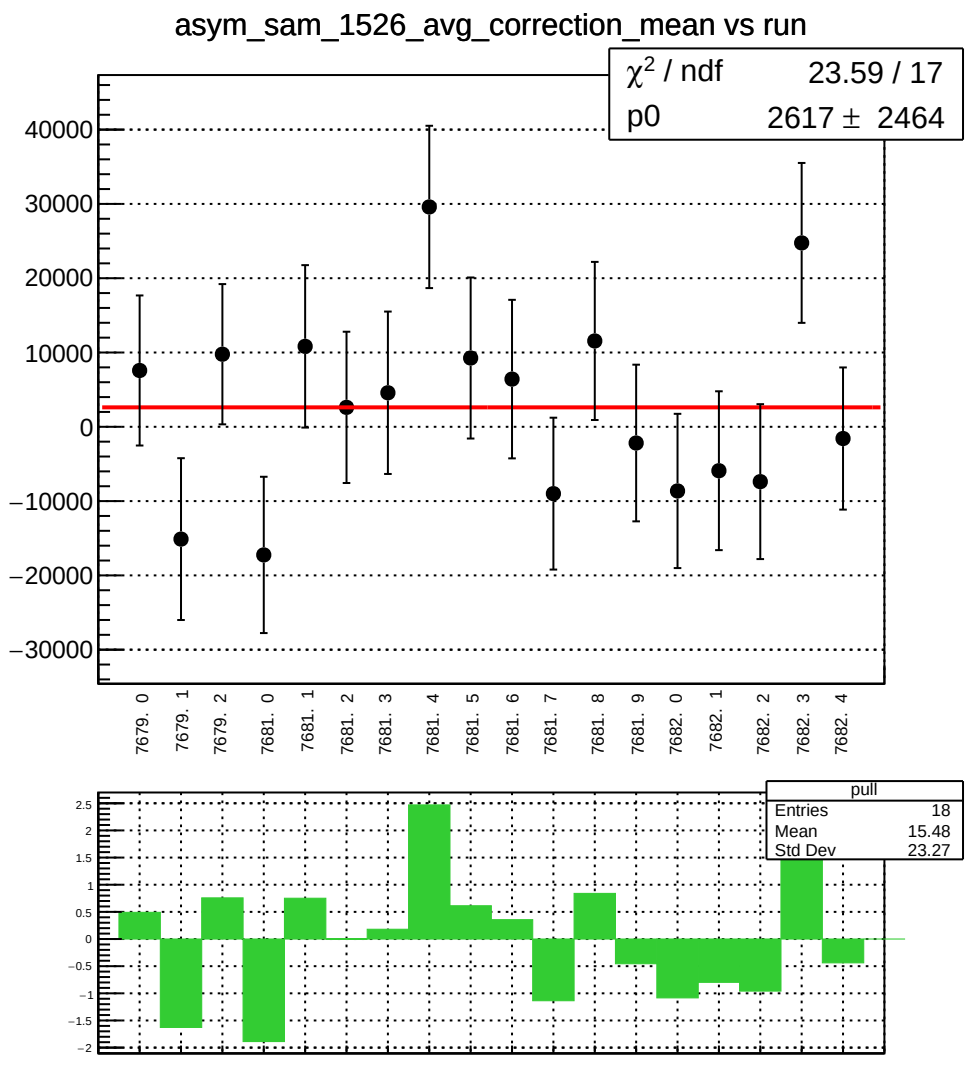

pull1D
Entries 18
Mean −0.004746
Std Dev 1.161
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

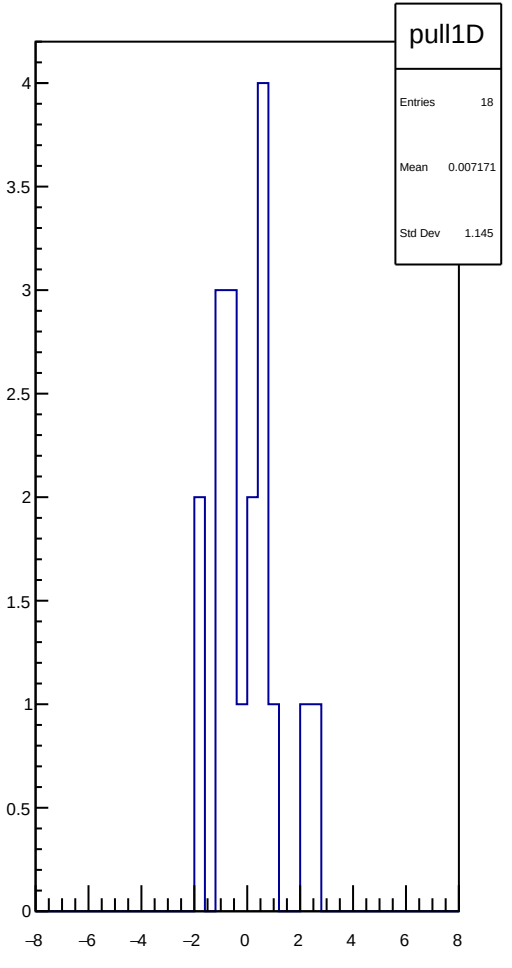

asym_sam_3748_avg_rms vs run
χ² / ndf 253.2 / 17
p0 2825 ± 4.902
2950
2900
2850
2800
2750
2700
2650
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

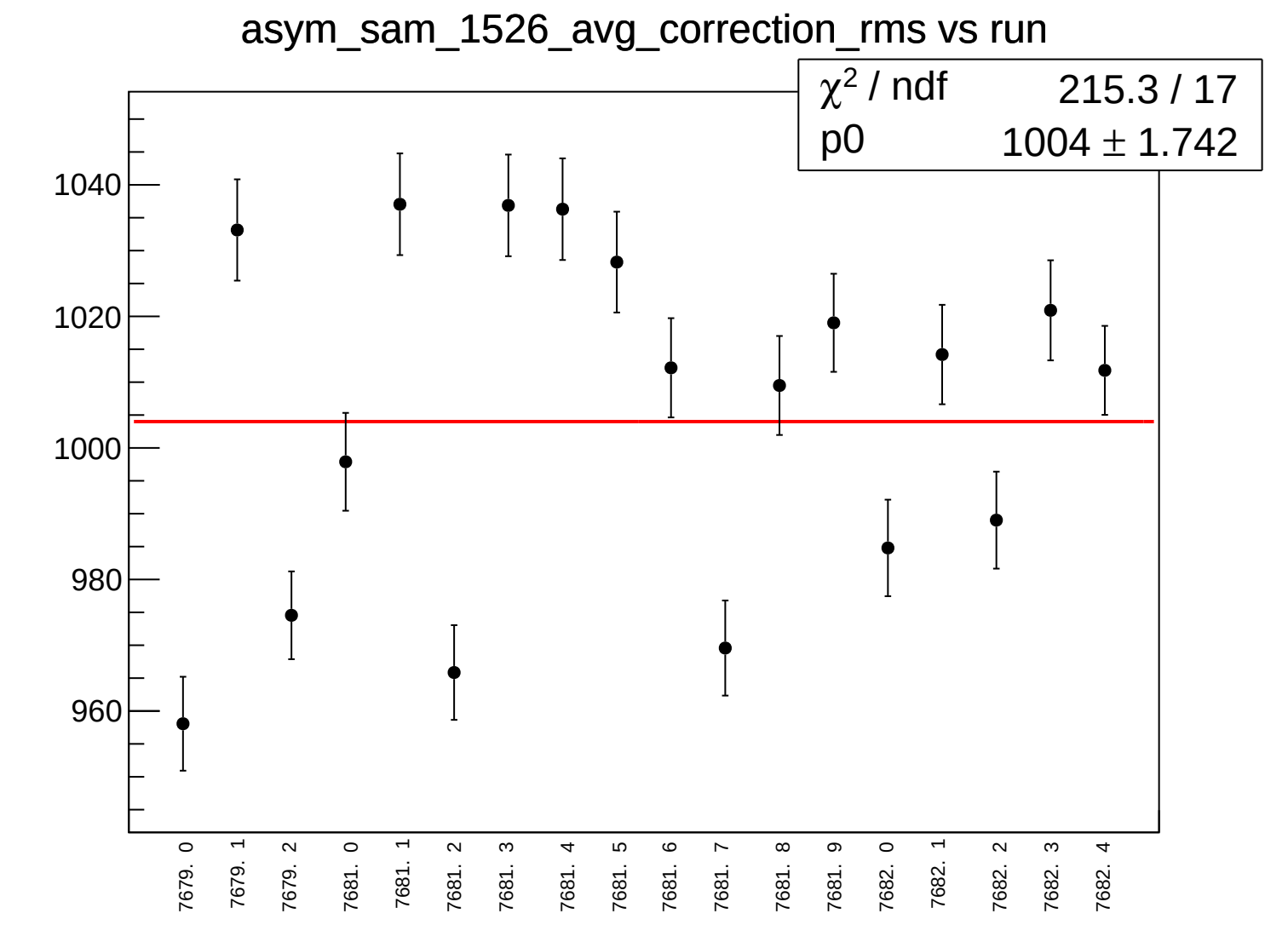

dit_asym_sam_1526_avg_mean vs run
χ² / ndf 10.65 / 17
p0 −384.7 ± 298.6
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −23.59
Std Dev 12.62
1.5
1
0.5
0
−0.5
−1
−1.5

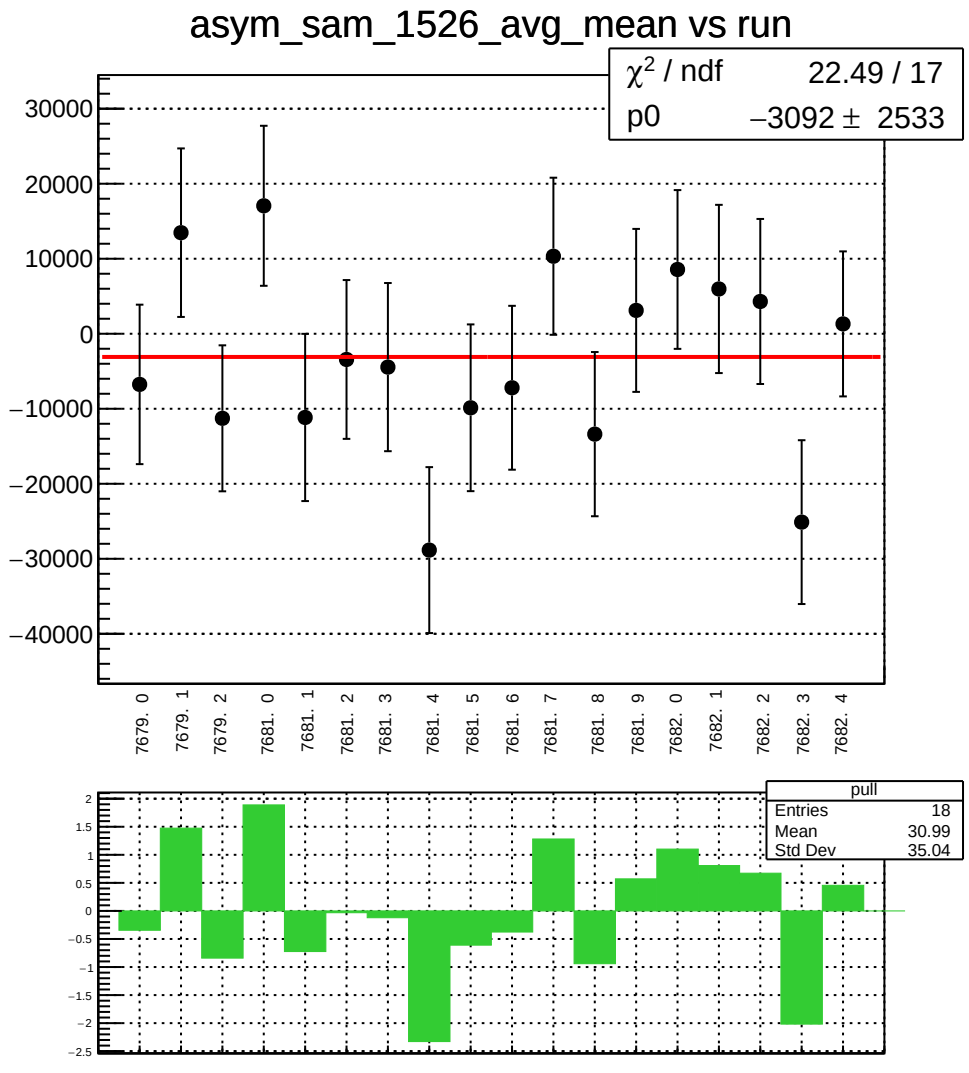

pull1D
Entries 18
Mean −0.003855
Std Dev 0.7692
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

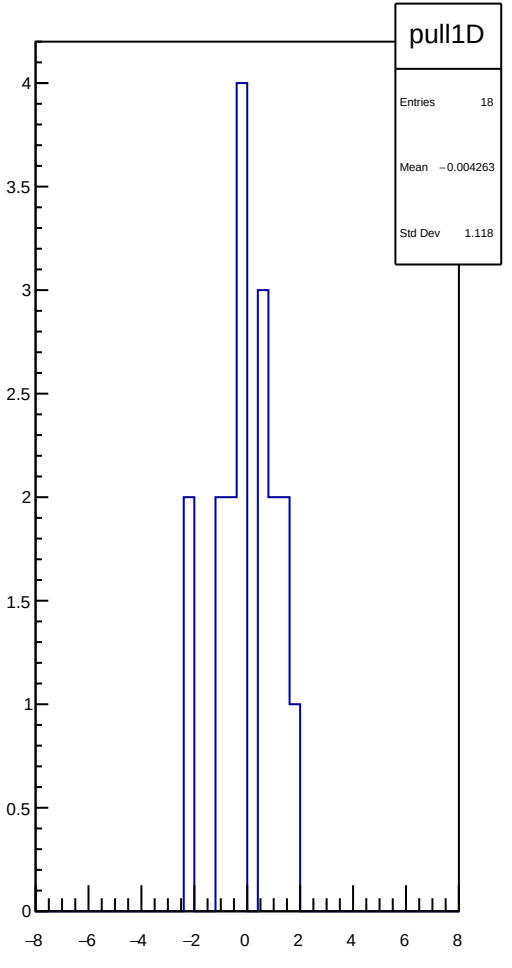

dit_asym_sam_1526_avg_rms vs run
χ² / ndf 4128 / 17
p0 121 ± 0.2111
190
180
170
160
150
140
130
120
110
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

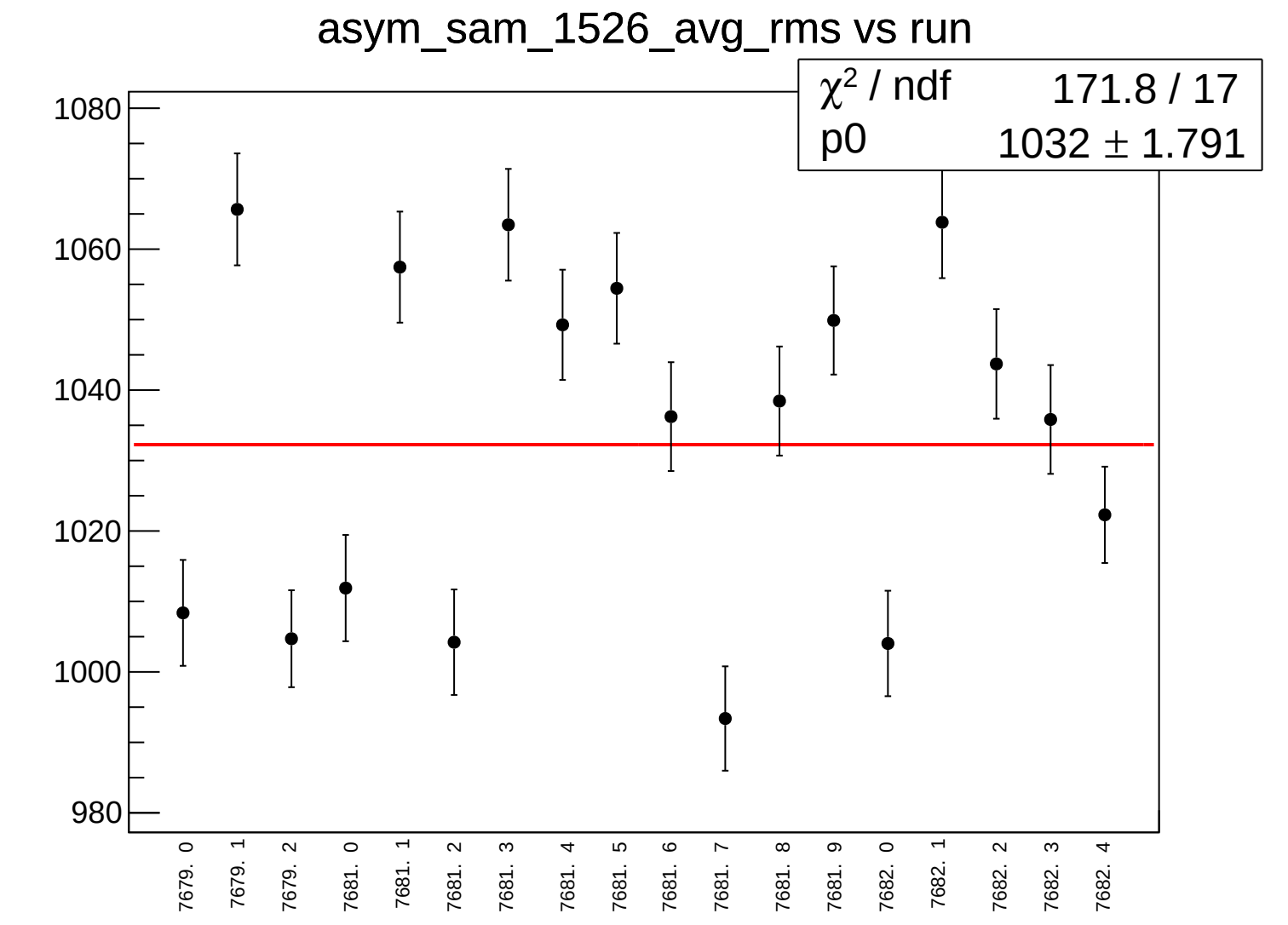

asym_sam_1526_avg_correction_mean vs run
χ² / ndf 23.59 / 17
p0 2617 ± 2464
40000
30000
20000
10000
0
−10000
−20000
−30000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 15.48
Std Dev 23.27
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

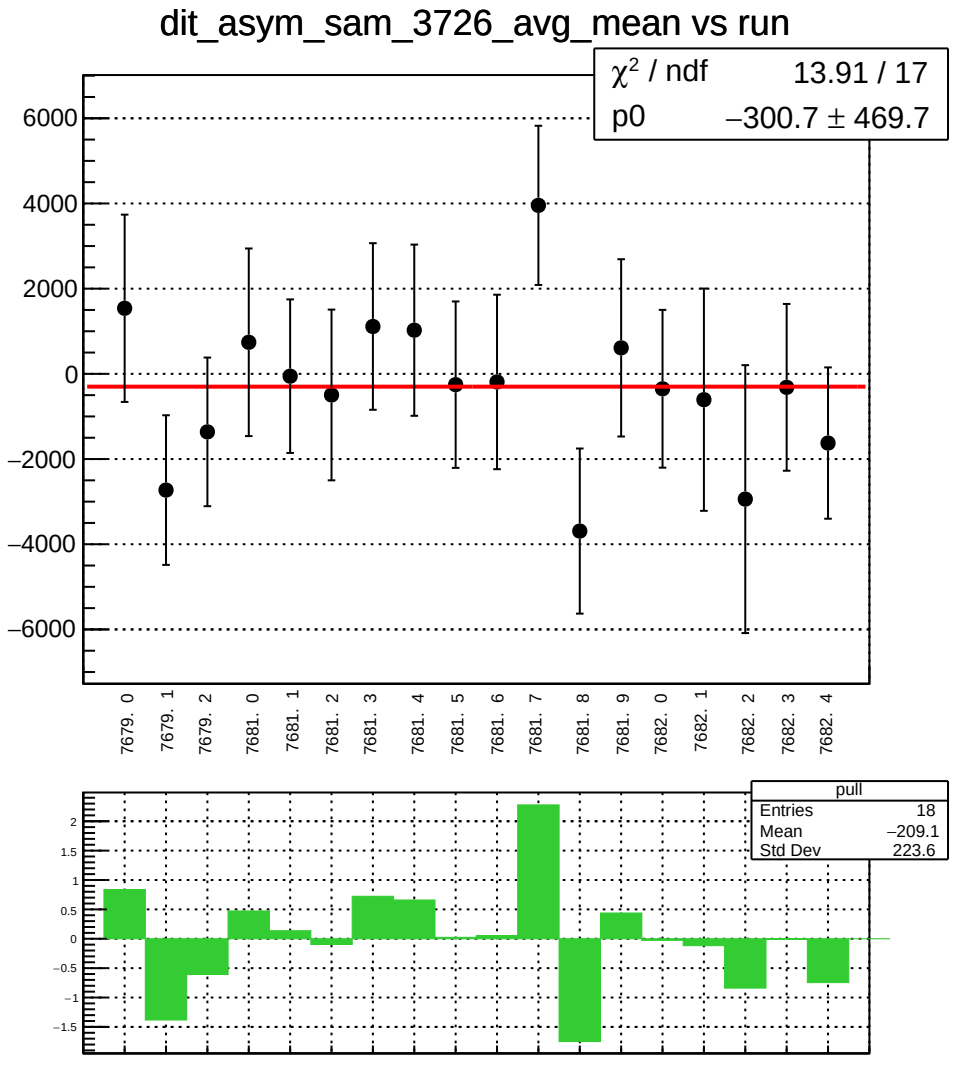

pull1D
Entries 18
Mean 0.007171
Std Dev 1.145
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

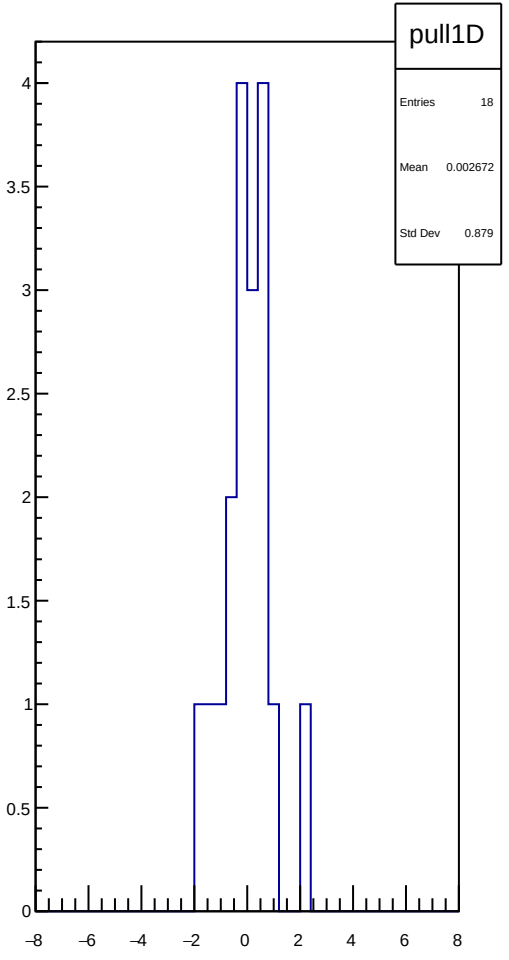

asym_sam_1526_avg_correction_rms vs run
χ² / ndf 215.3 / 17
p0 1004 ± 1.742
1040
1020
1000
980
960
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

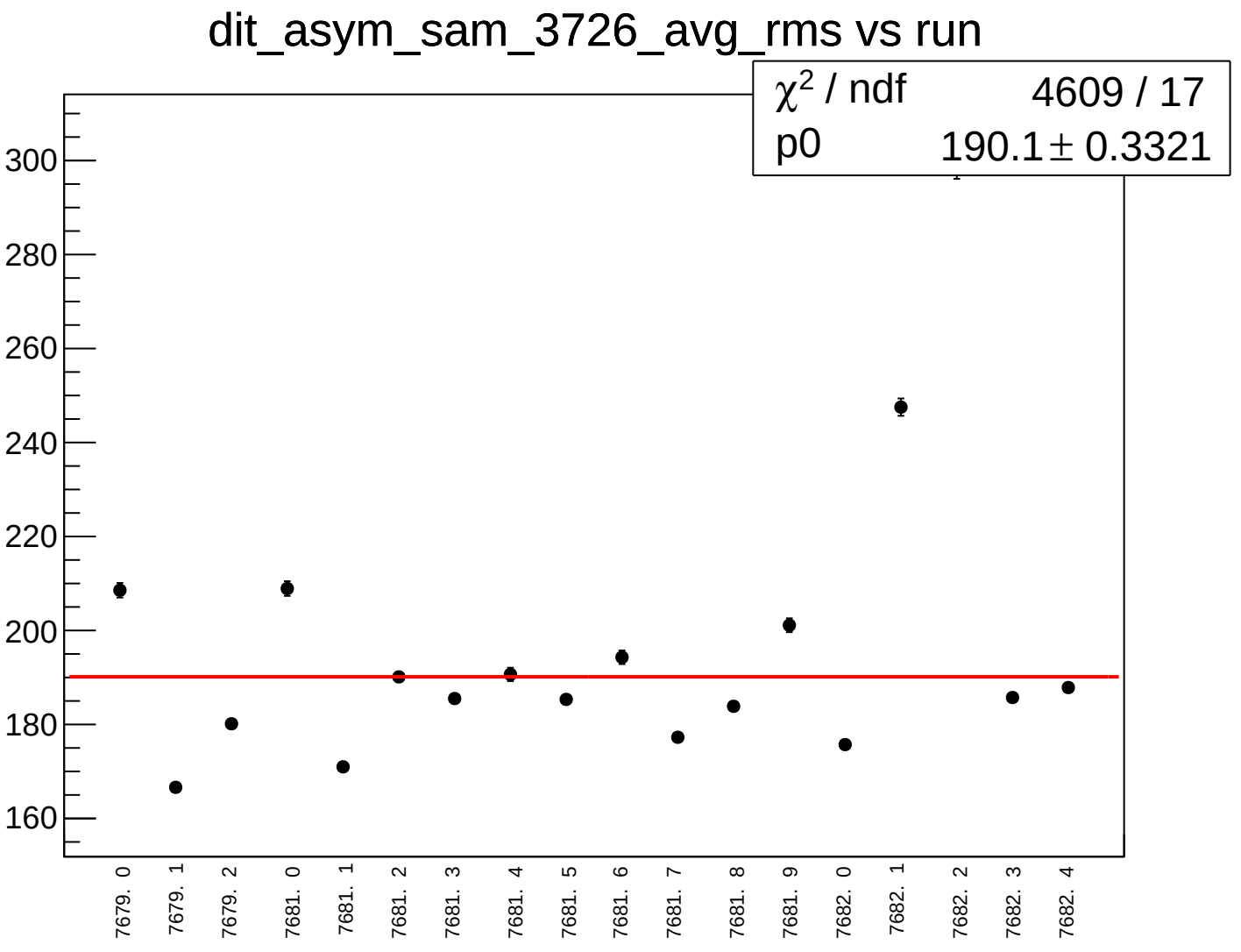

asym_sam_1526_avg_mean vs run
χ² / ndf 22.49 / 17
p0 −3092 ± 2533
30000
20000
10000
0
−10000
−20000
−30000
−40000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 30.99
Std Dev 35.04
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

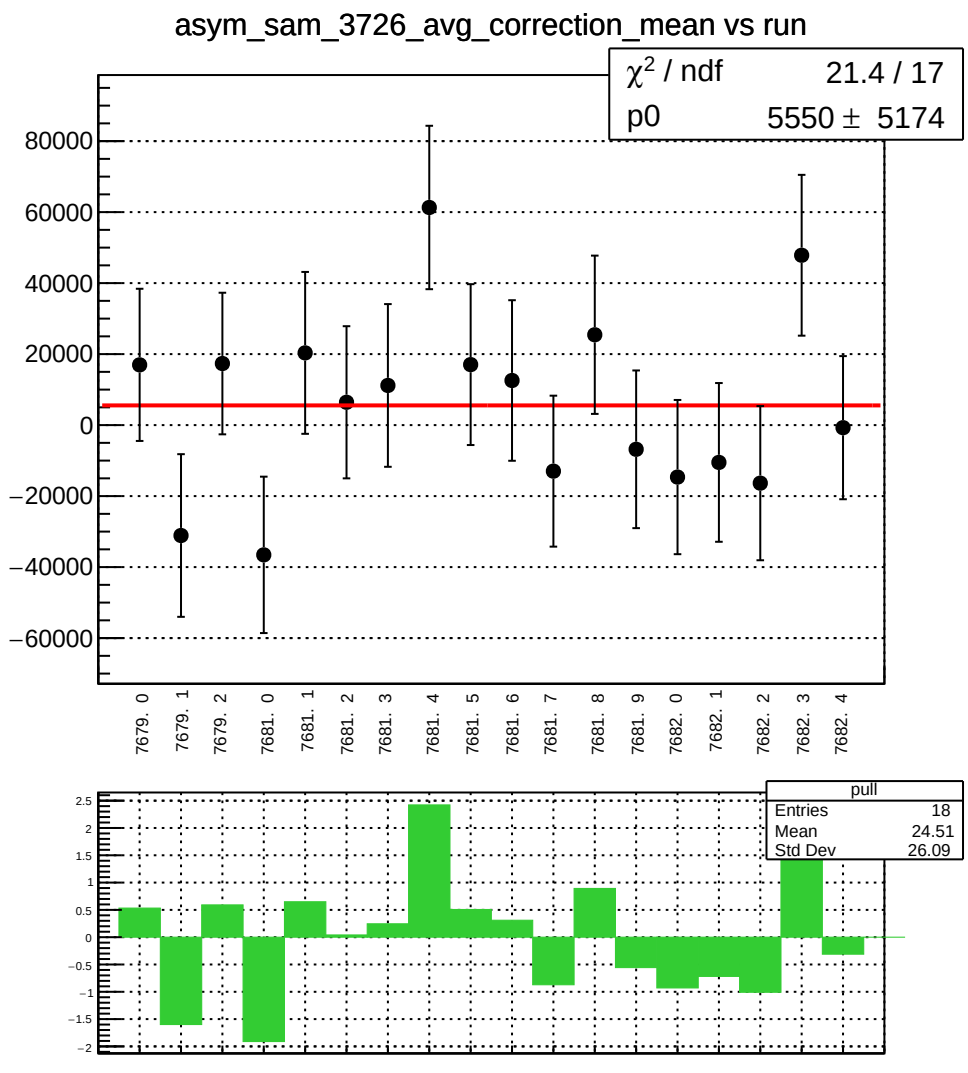

pull1D
Entries 18
Mean −0.004263
Std Dev 1.118
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

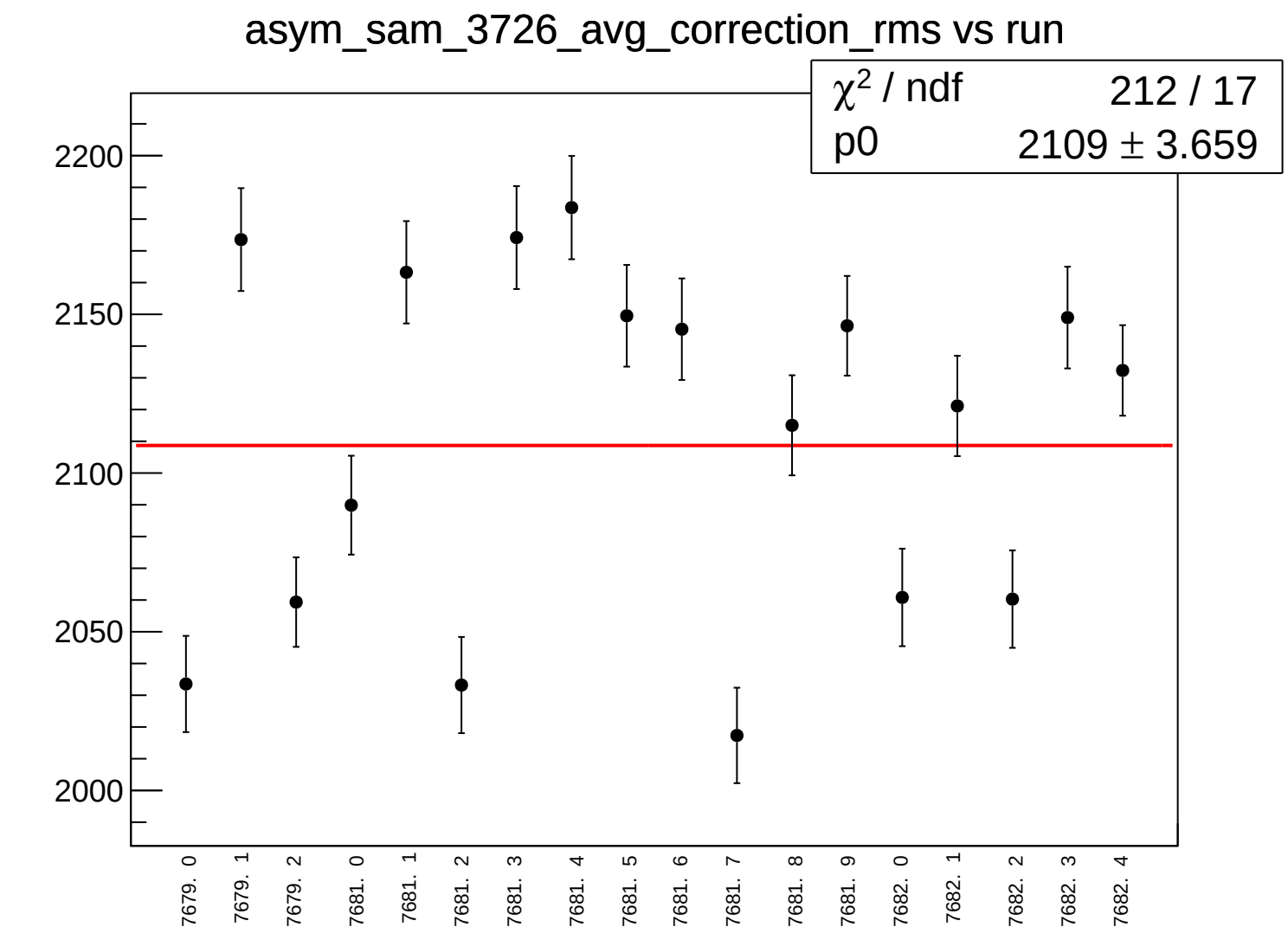

asym_sam_1526_avg_rms vs run
χ² / ndf 171.8 / 17
p0 1032 ± 1.791
1080
1060
1040
1020
1000
980
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

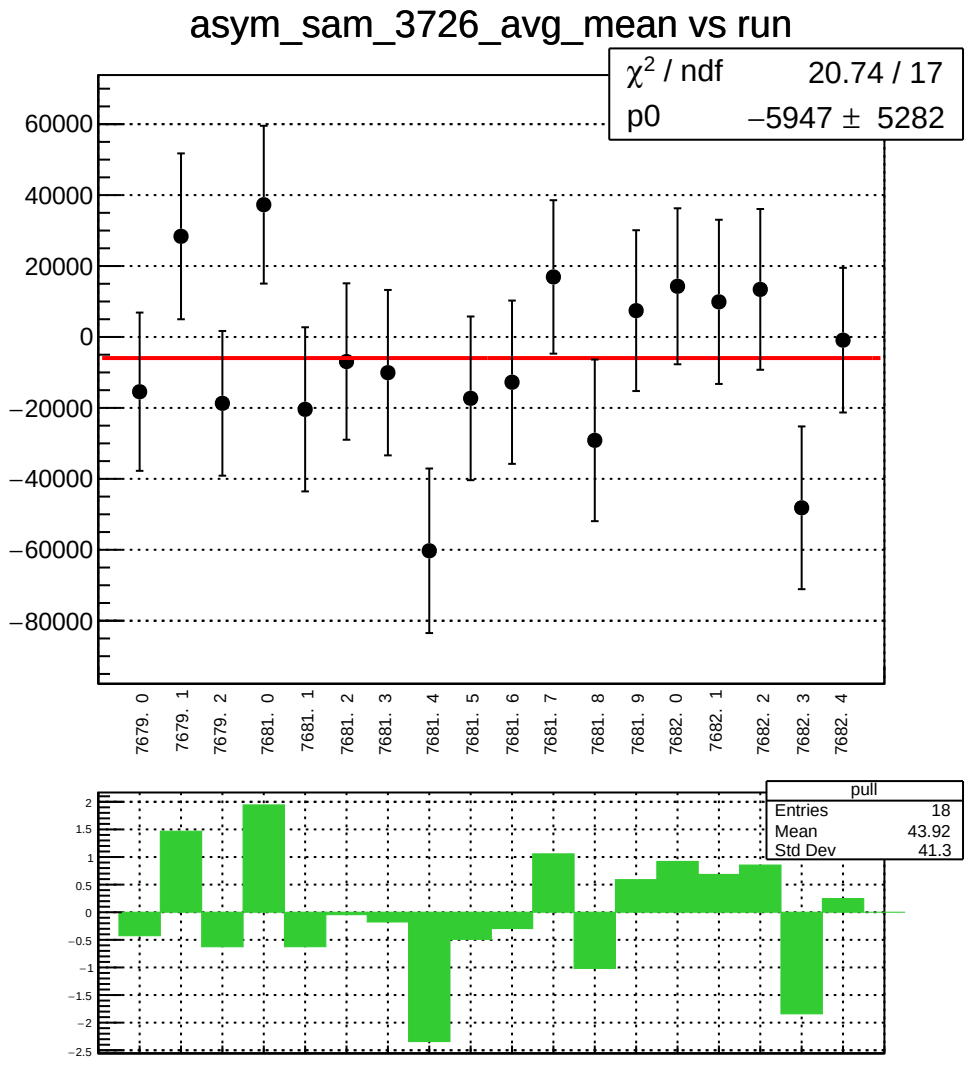

dit_asym_sam_3726_avg_mean vs run
χ² / ndf 13.91 / 17
p0 −300.7 ± 469.7
6000
4000
2000
0
−2000
−4000
−6000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −209.1
Std Dev 223.6
2
1.5
1
0.5
0
−0.5
−1
−1.5

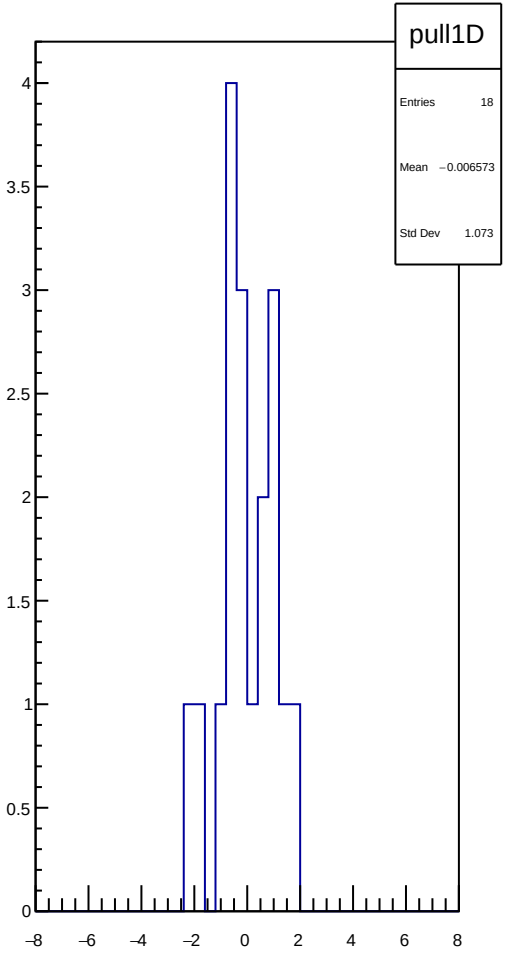

pull1D
Entries 18
Mean 0.002672
Std Dev 0.879
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

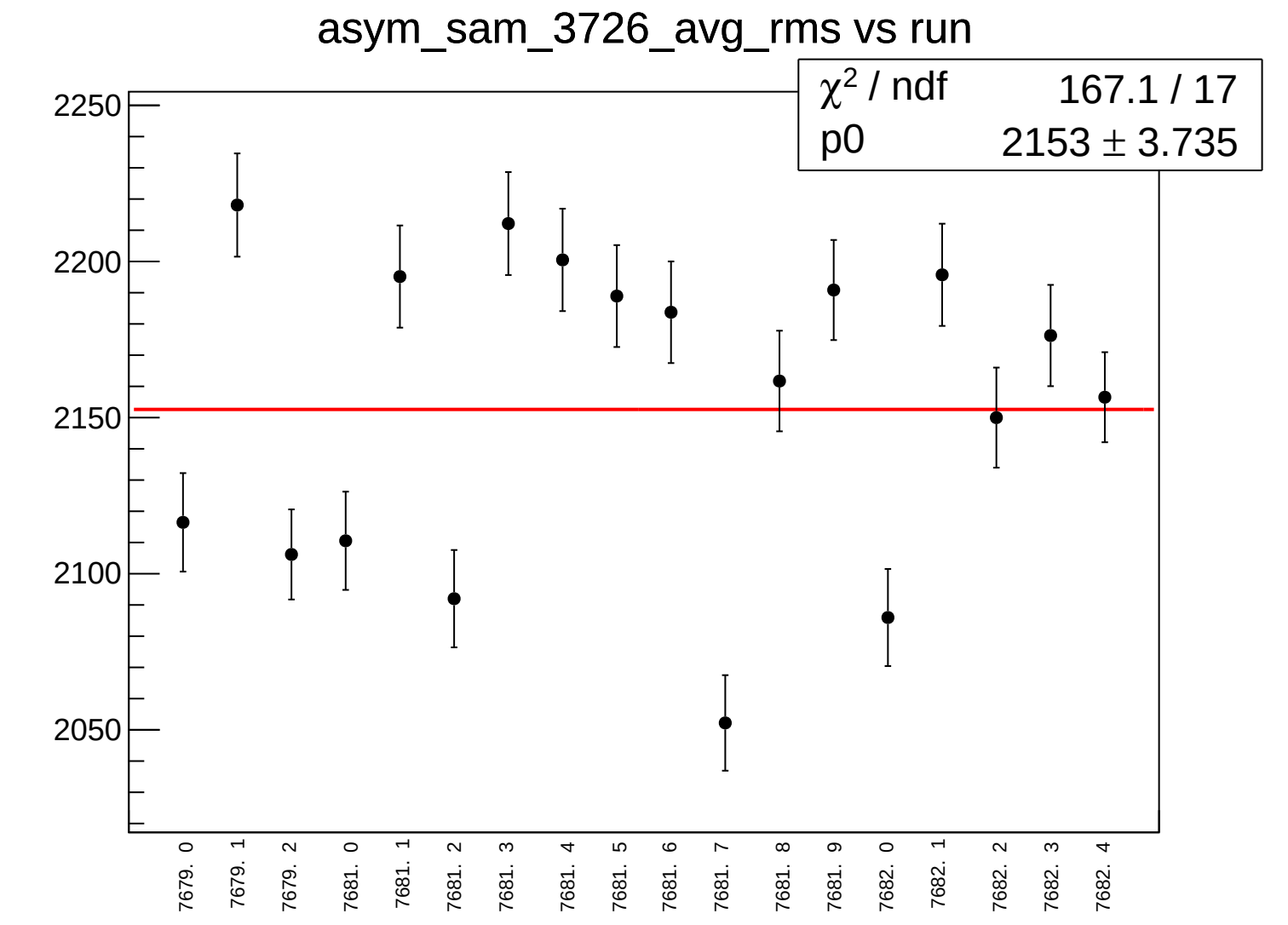

dit_asym_sam_3726_avg_rms vs run
χ² / ndf 4609 / 17
p0 190.1 ± 0.3321
300
280
260
240
220
200
180
160
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

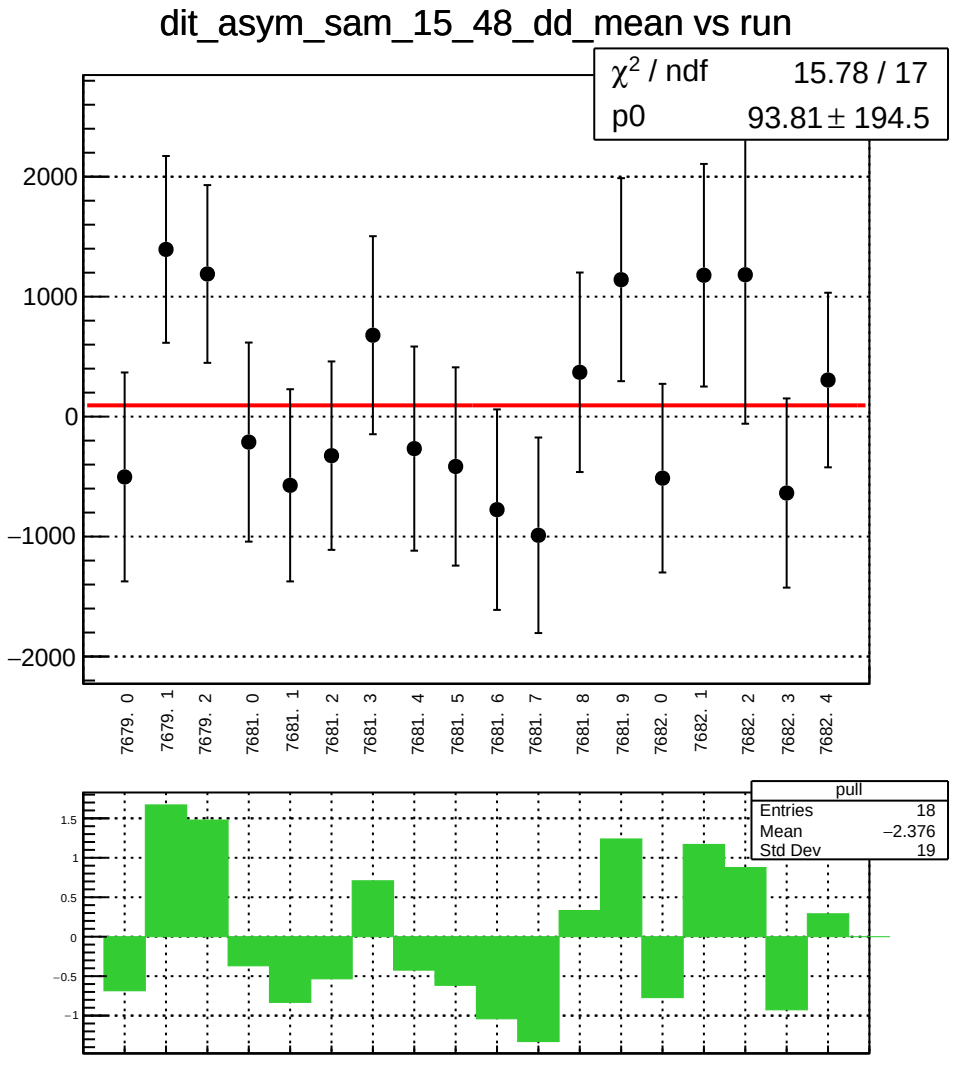

asym_sam_3726_avg_correction_mean vs run
χ² / ndf 21.4 / 17
p0 5550 ± 5174
80000
60000
40000
20000
0
−20000
−40000
−60000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 24.51
Std Dev 26.09
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 18
Mean 0.008499
Std Dev 1.09
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

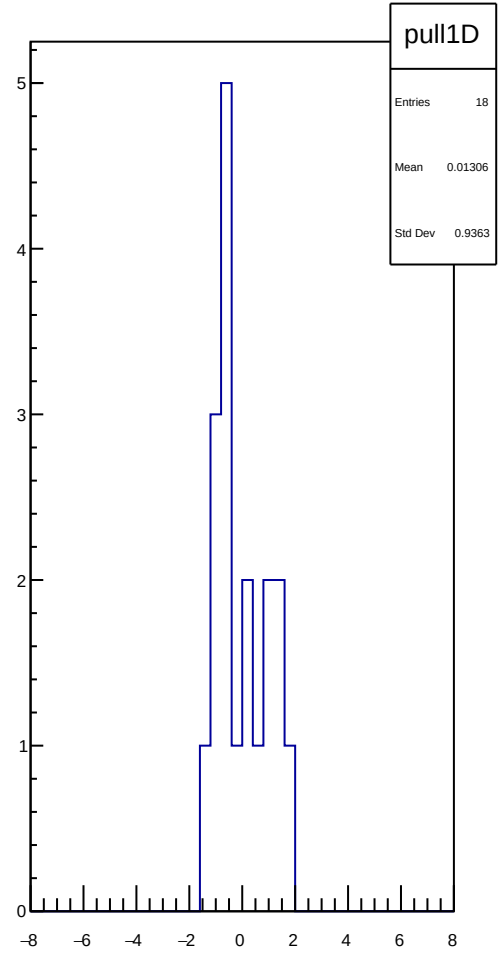

asym_sam_3726_avg_correction_rms vs run
χ² / ndf 212 / 17
p0 2109 ± 3.659
2200
2150
2100
2050
2000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

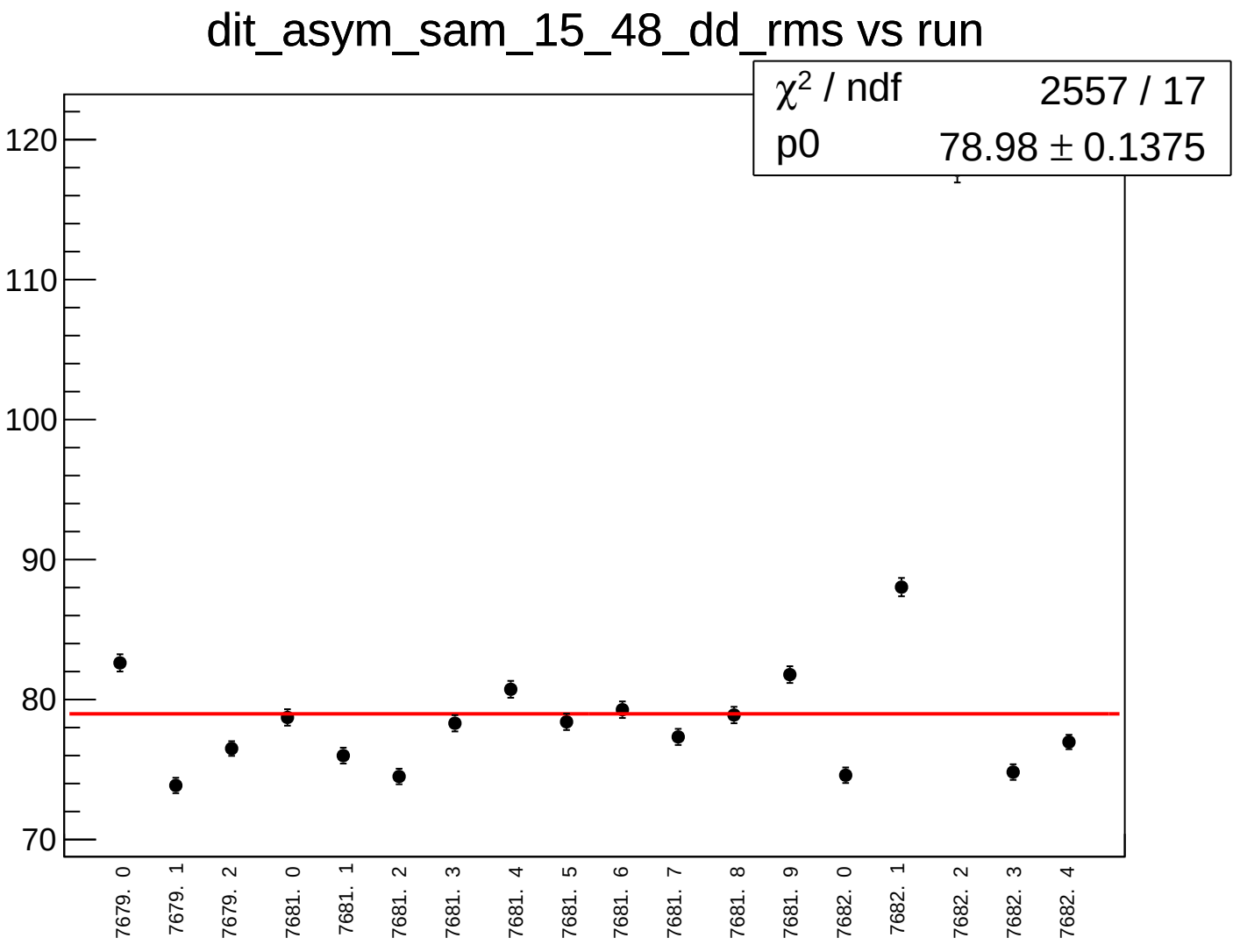

asym_sam_3726_avg_mean vs run
χ² / ndf 20.74 / 17
p0 −5947 ± 5282
60000
40000
20000
0
−20000
−40000
−60000
−80000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 43.92
Std Dev 41.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

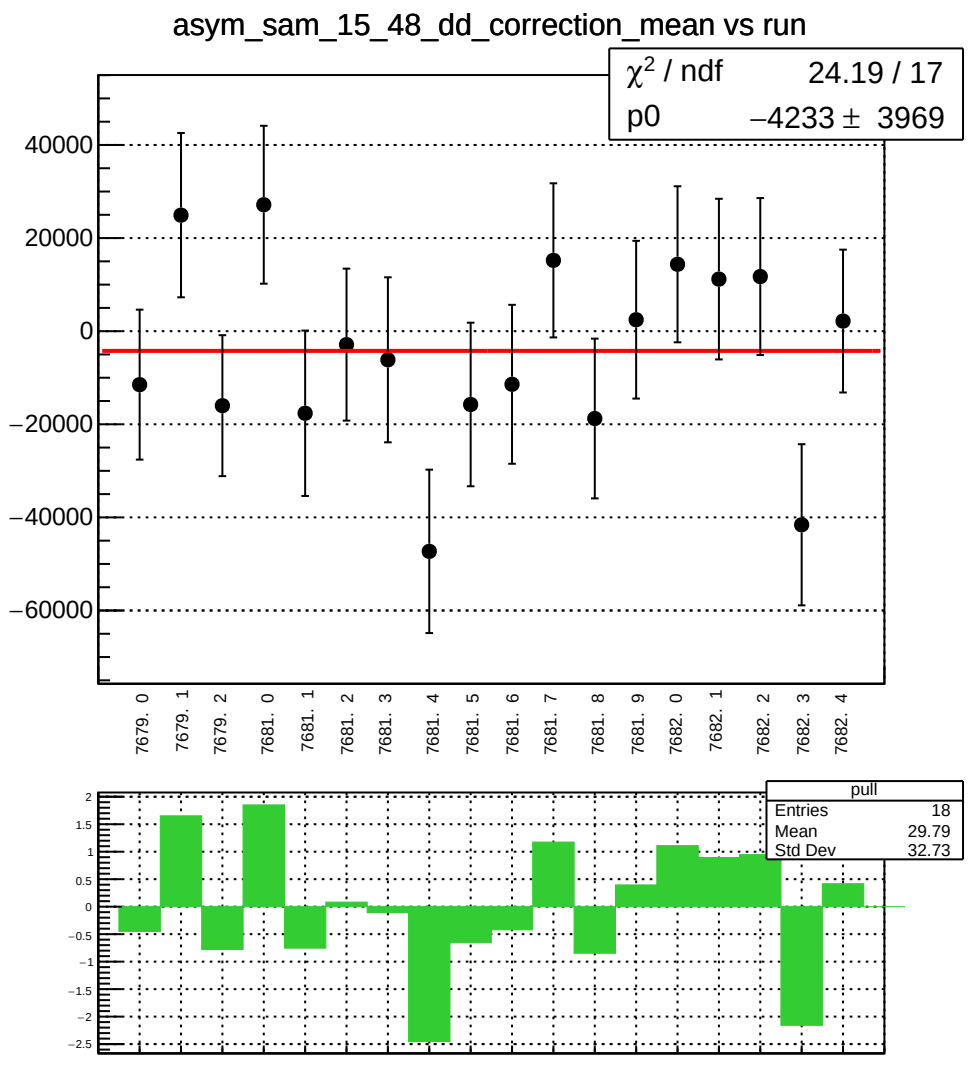

pull1D
Entries 18
Mean −0.006573
Std Dev 1.073
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

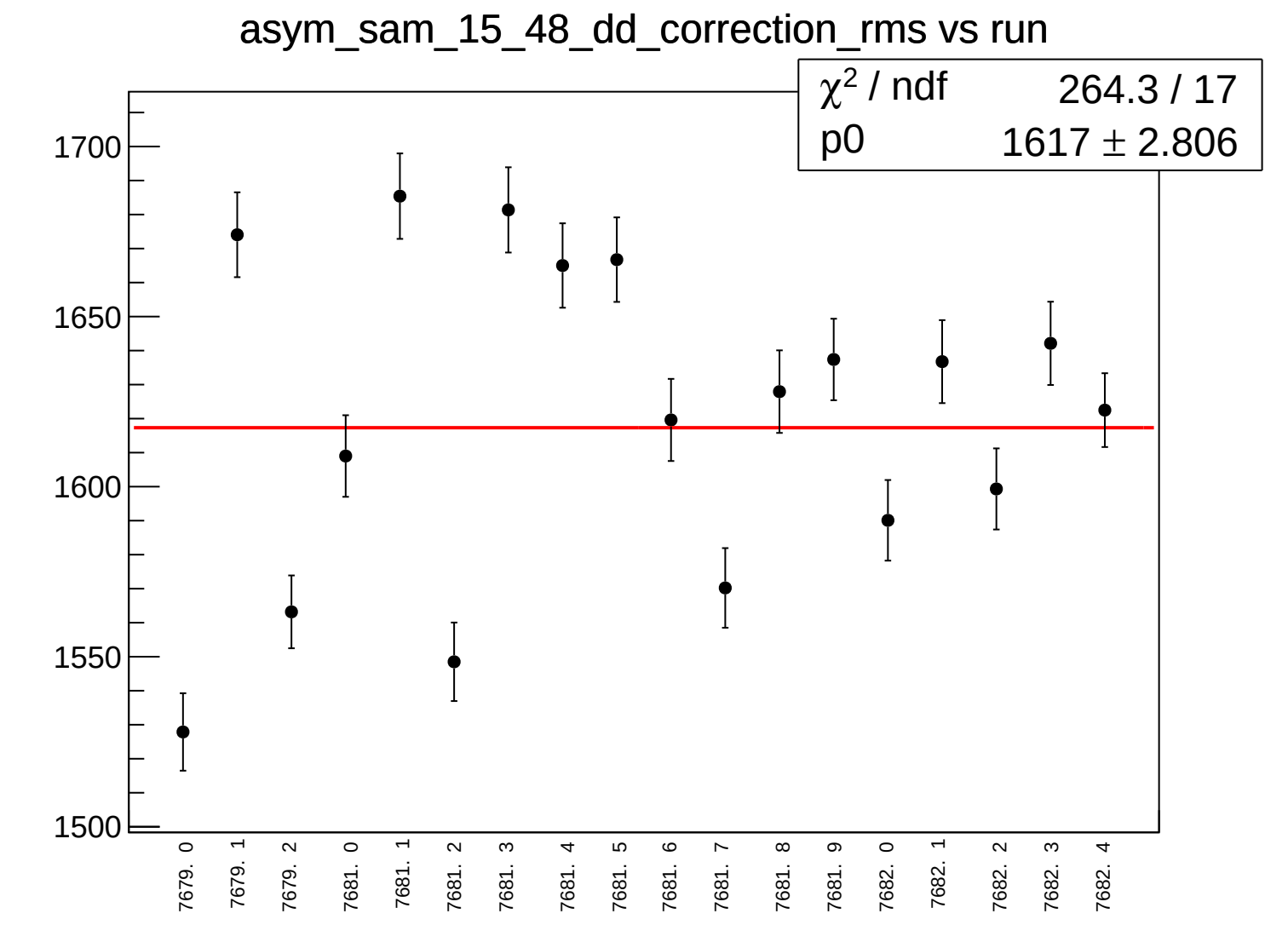

asym_sam_3726_avg_rms vs run
χ² / ndf 167.1 / 17
p0 2153 ± 3.735
2250
2200
2150
2100
2050
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

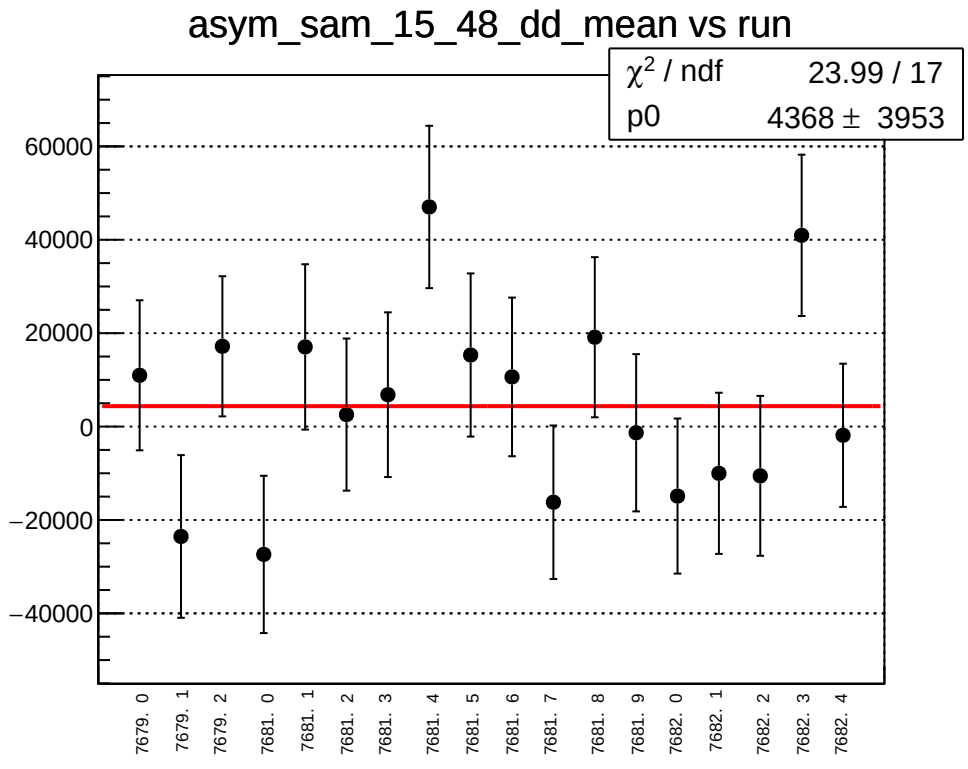

dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 15.78 / 17
p0 93.81 ± 194.5
2000
1000
0
−1000
−2000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −2.376
Std Dev 19
1.5
1
0.5
0
−0.5
−1

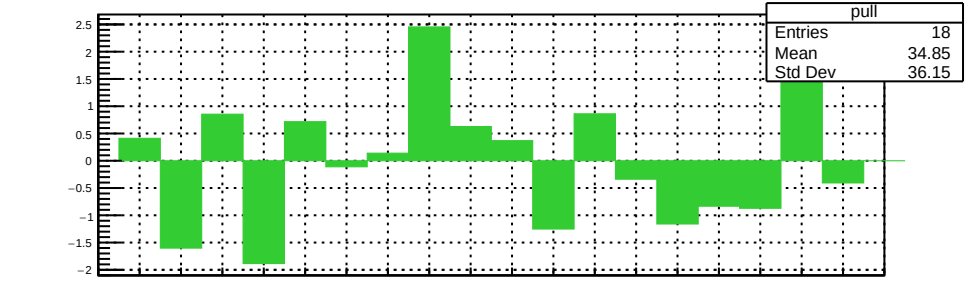

pull1D
Entries 18
Mean 0.01306
Std Dev 0.9363
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

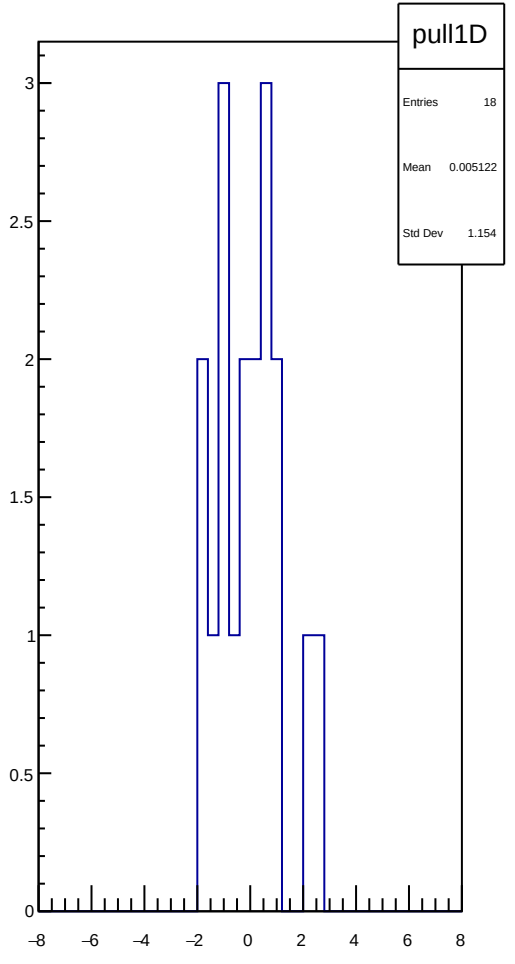

dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 2557 / 17
p0 78.98 ± 0.1375
120
110
100
90
80
70
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

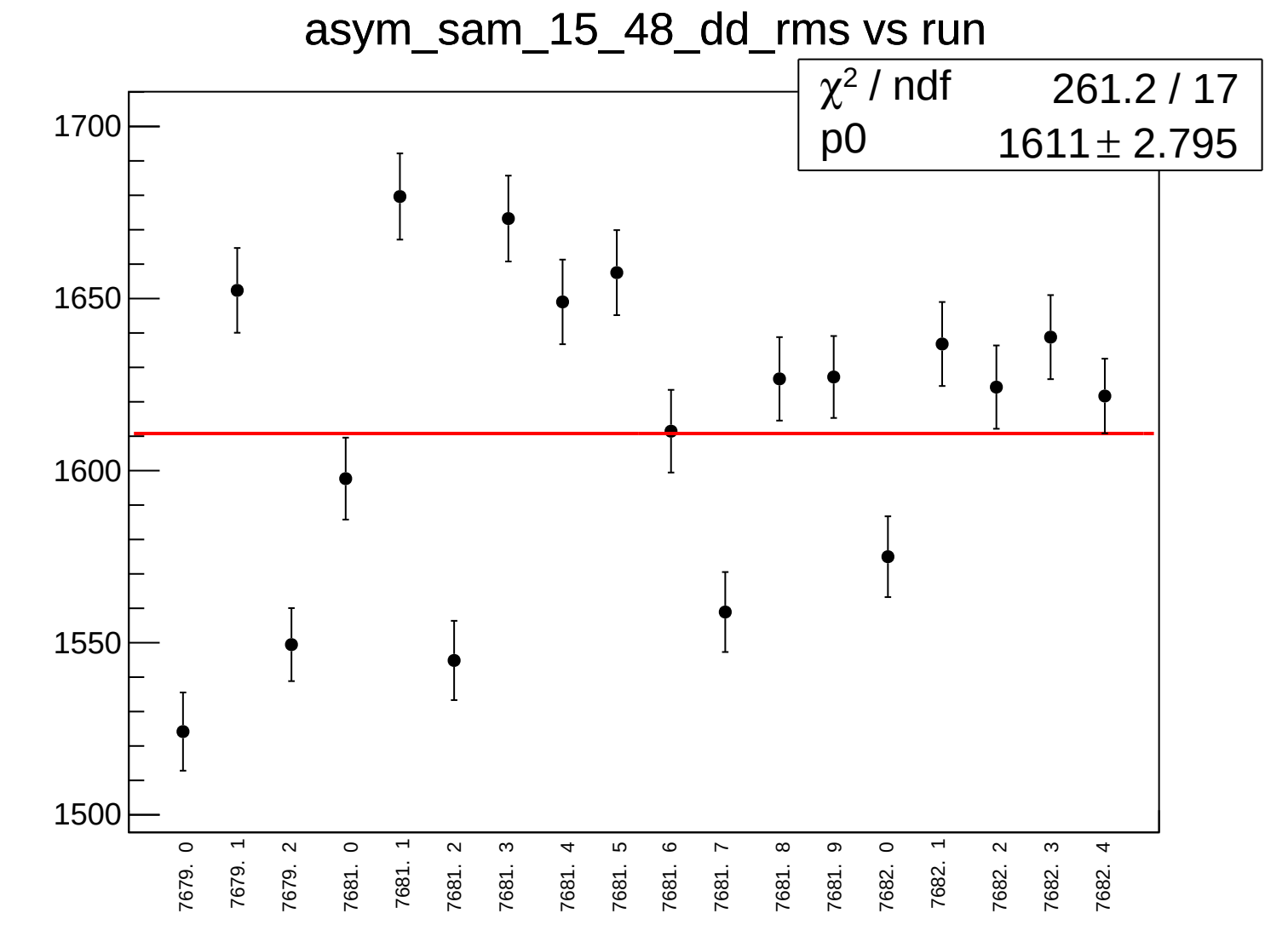

asym_sam_15_48_dd_correction_mean vs run
χ² / ndf 24.19 / 17
p0 −4233 ± 3969
40000
20000
0
−20000
−40000
−60000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 29.79
Std Dev 32.73
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 18
Mean −0.005508
Std Dev 1.159
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

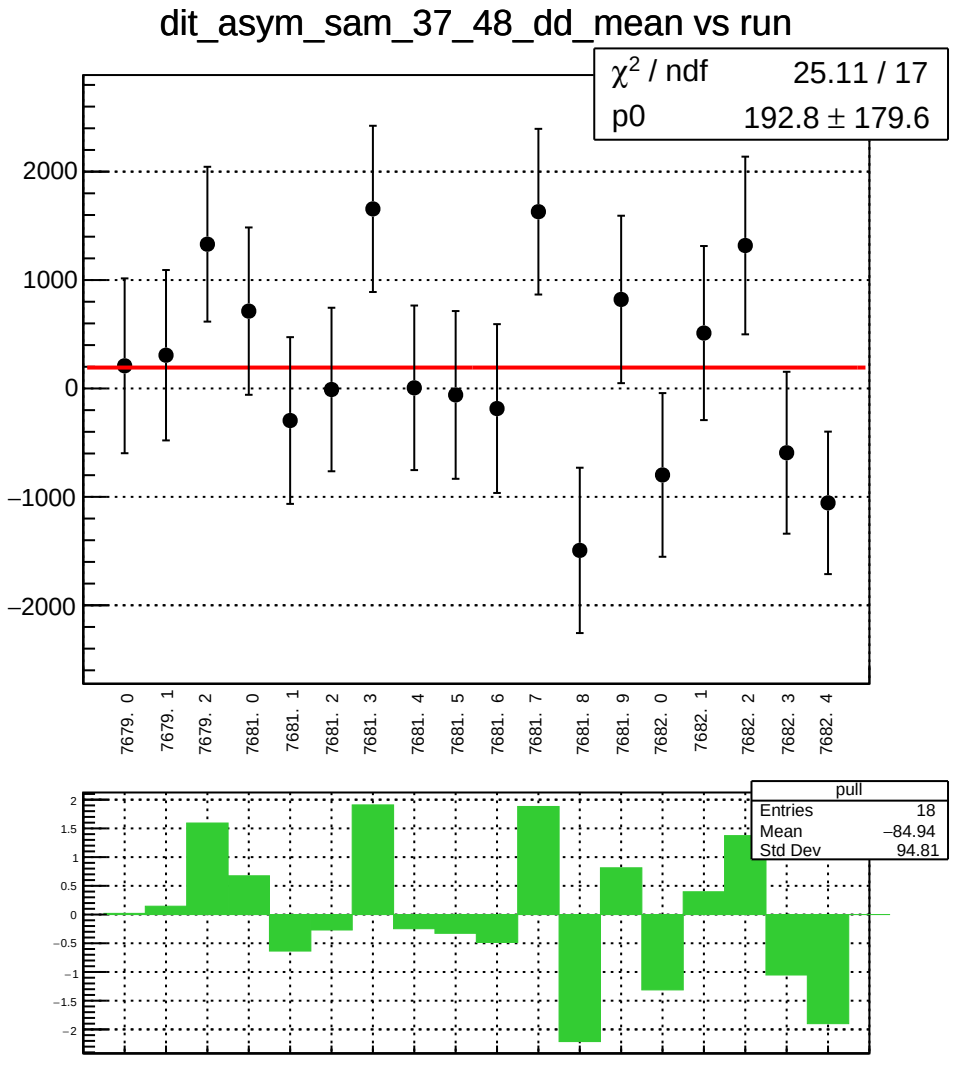

asym_sam_15_48_dd_correction_rms vs run
χ² / ndf 264.3 / 17
p0 1617 ± 2.806
1700
1650
1600
1550
1500
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

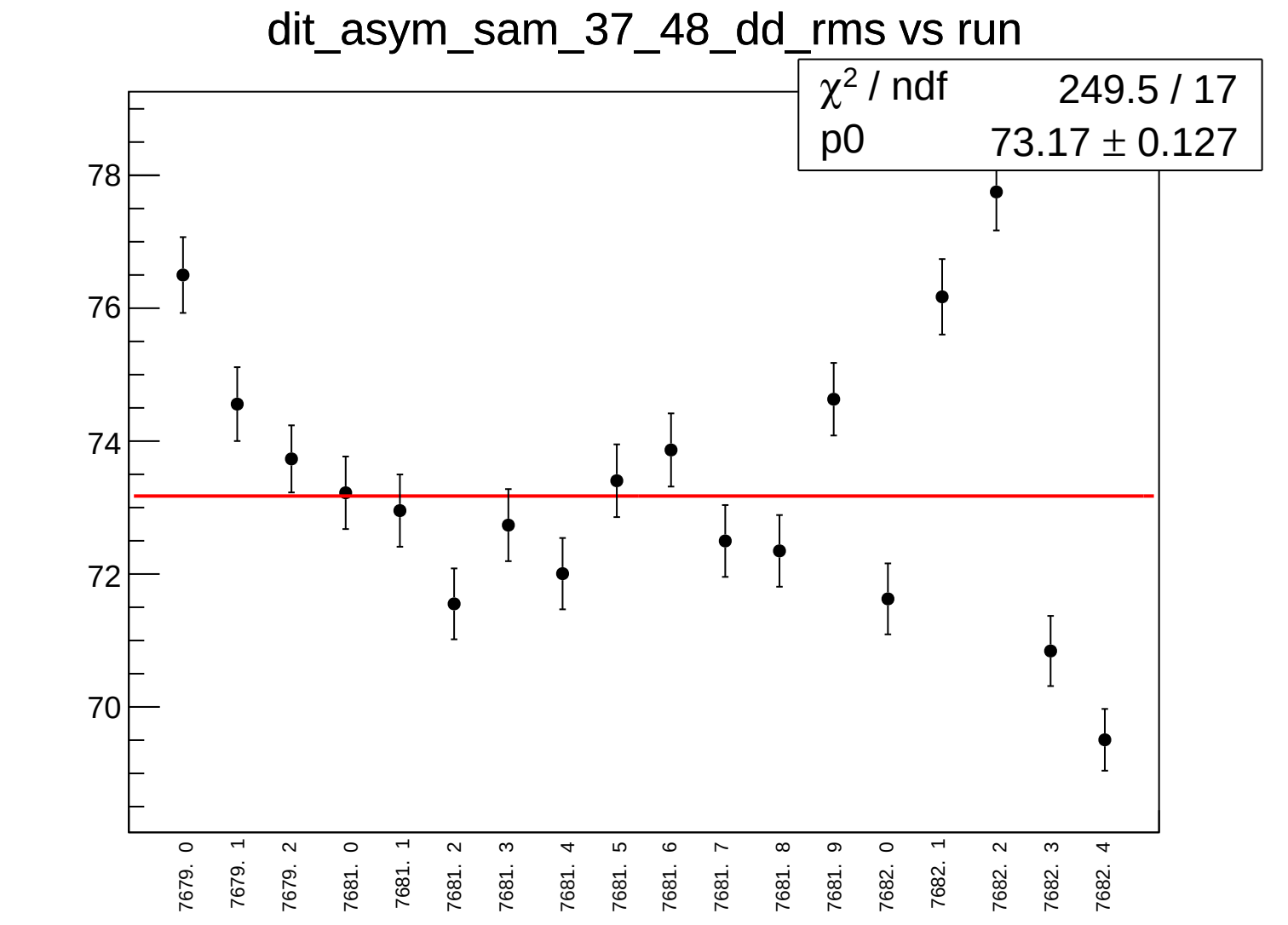

asym_sam_15_48_dd_mean vs run
χ² / ndf 23.99 / 17
p0 4368 ± 3953
60000
40000
20000
0
−20000
−40000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

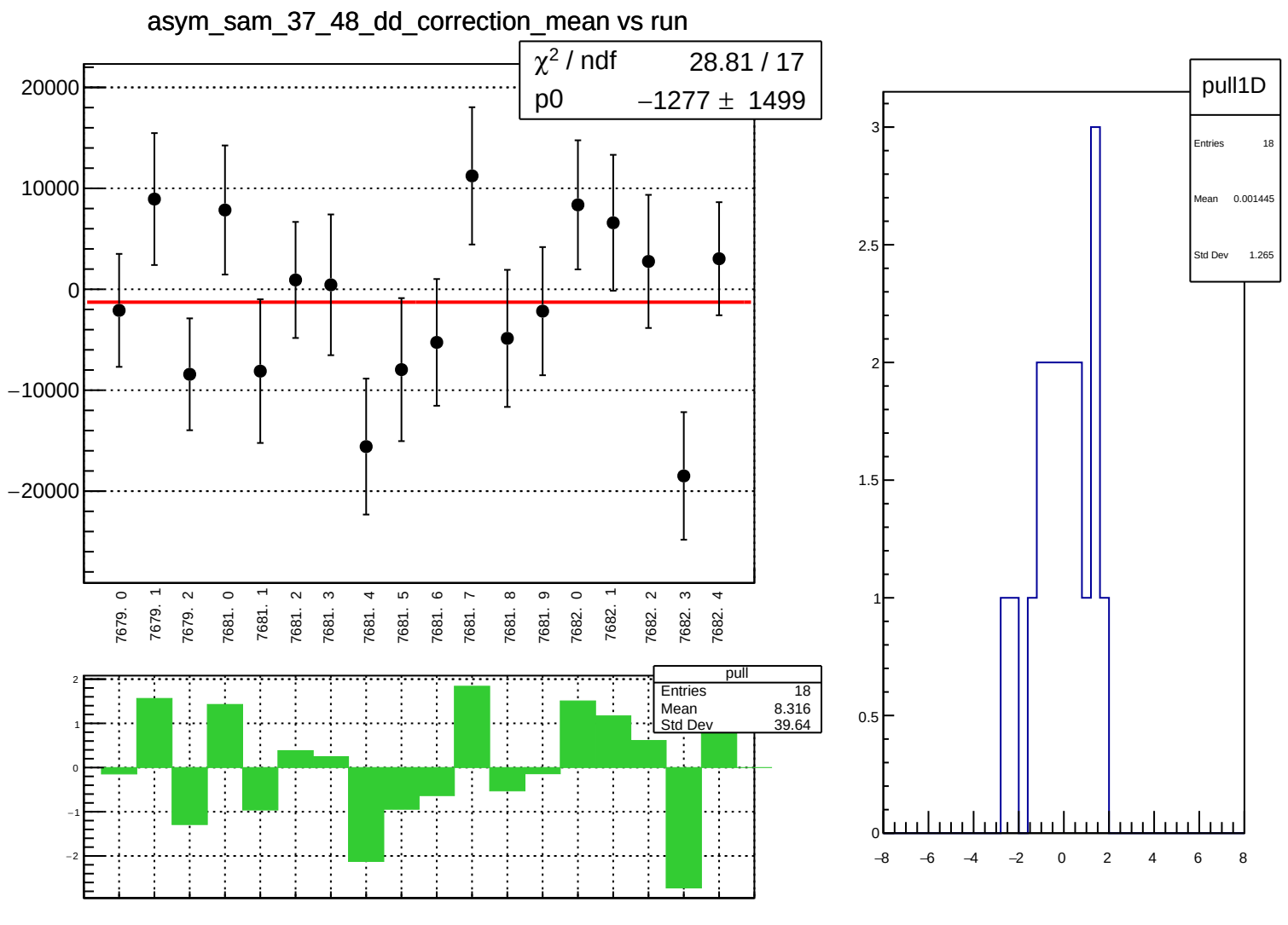

pull
Entries 18
Mean 34.85
Std Dev 36.15
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

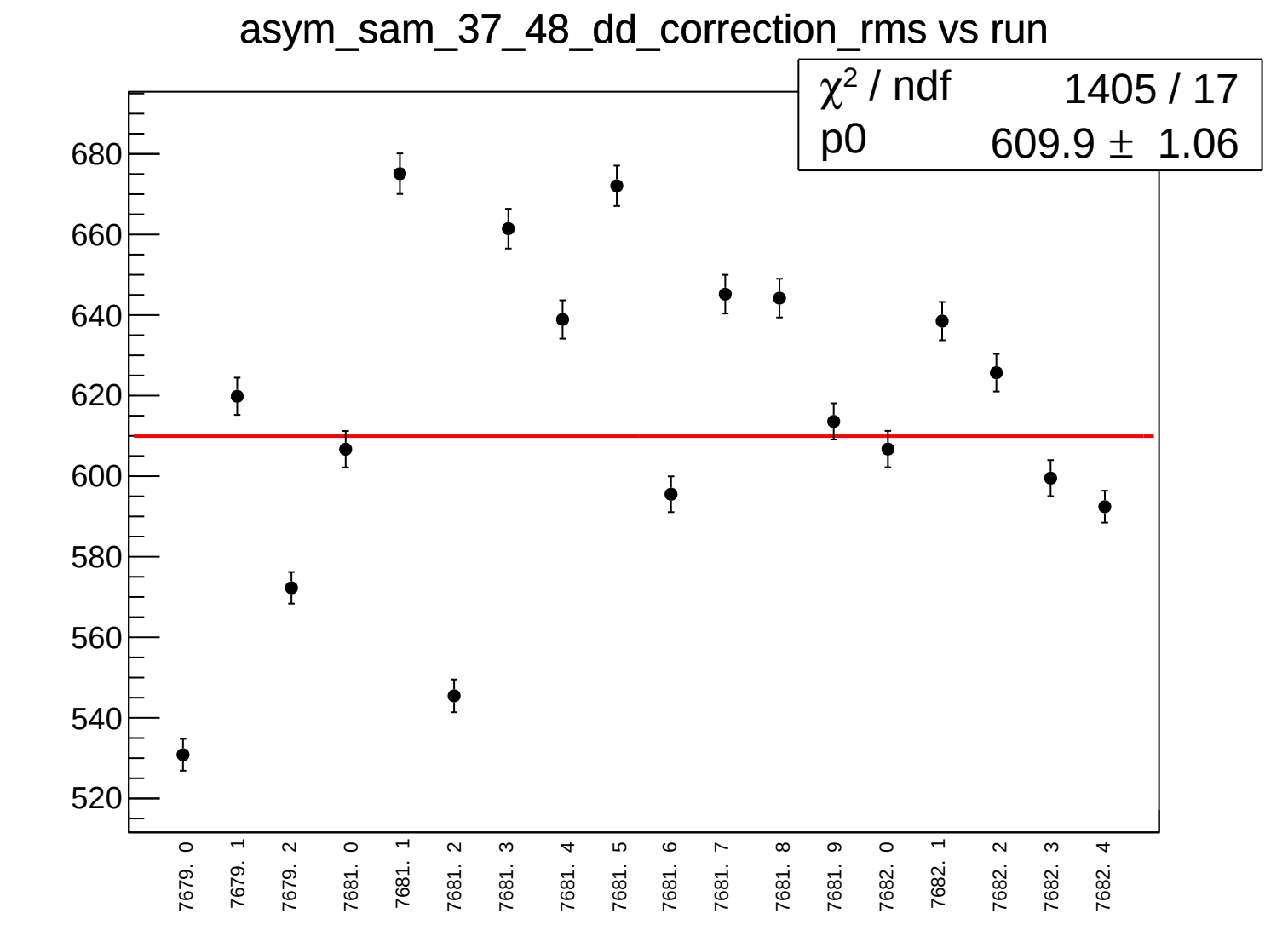

pull1D
Entries 18
Mean 0.005122
Std Dev 1.154
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

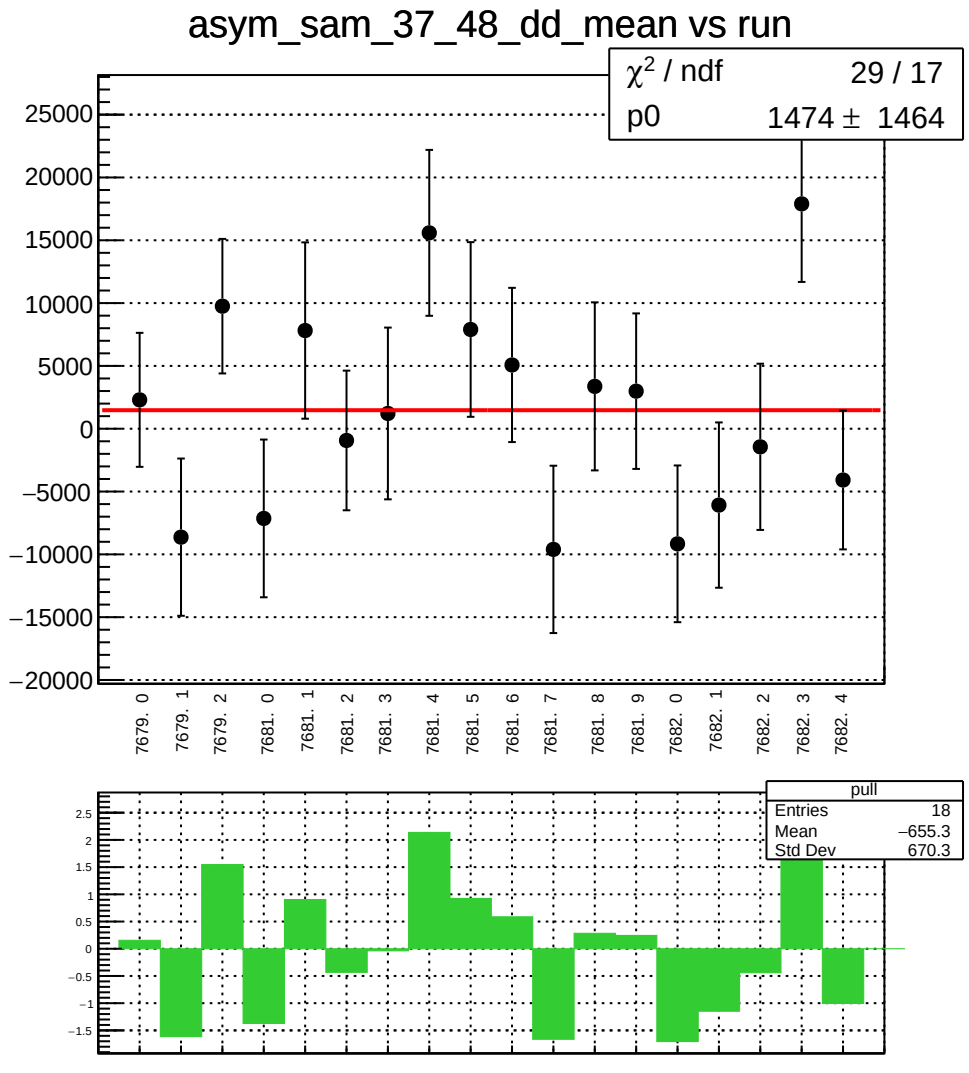

asym_sam_15_48_dd_rms vs run
χ² / ndf 261.2 / 17
p0 1611 ± 2.795
1700
1650
1600
1550
1500
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

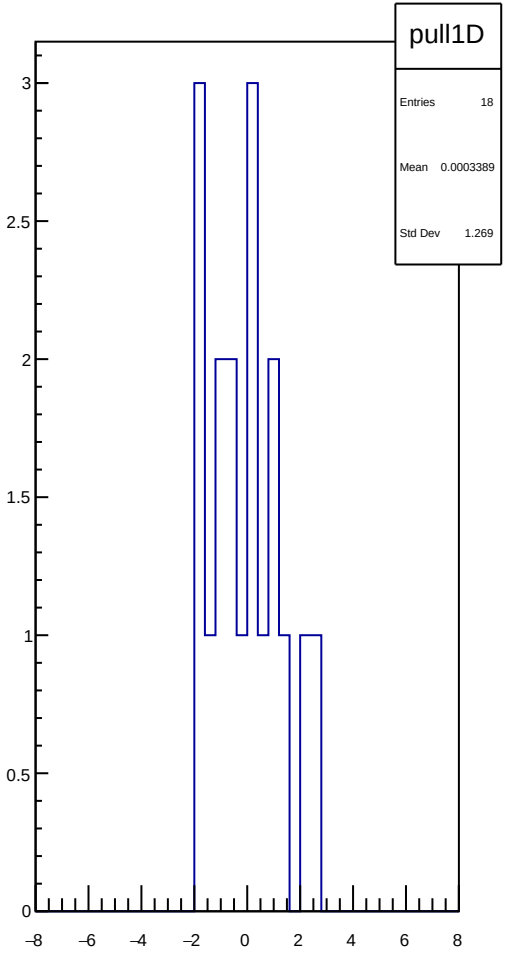

dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 25.11 / 17
p0 192.8 ± 179.6
2000
1000
0
−1000
−2000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −84.94
Std Dev 94.81
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 18
Mean 0.02052
Std Dev 1.181
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

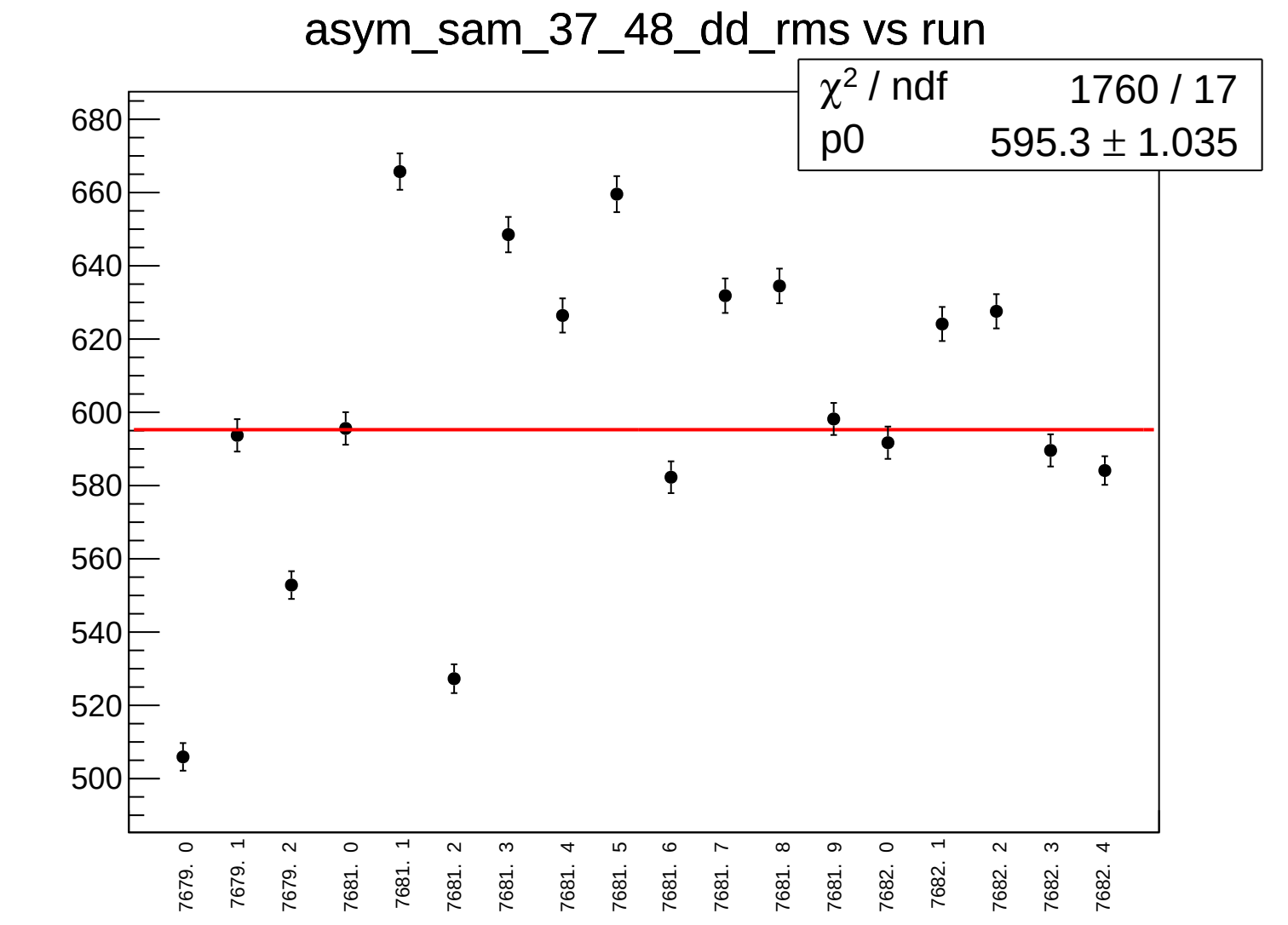

dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 249.5 / 17
p0 73.17 ± 0.127
78
76
74
72
70
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

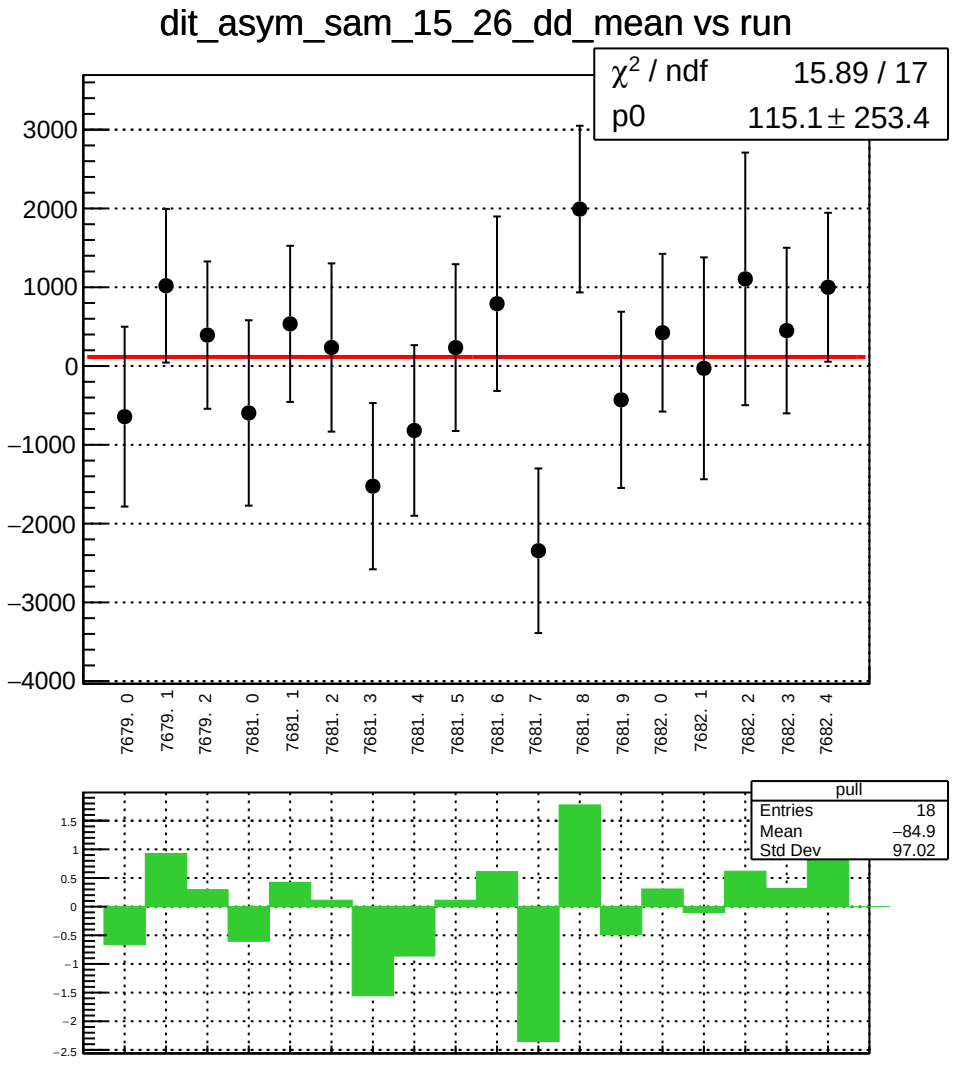

asym_sam_37_48_dd_correction_mean vs run
χ² / ndf 28.81 / 17
p0 −1277 ± 1499
20000
10000
0
−10000
−20000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 8.316
Std Dev 39.64
2
1
0
−1
−2
pull1D
Entries 18
Mean 0.001445
Std Dev 1.265
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

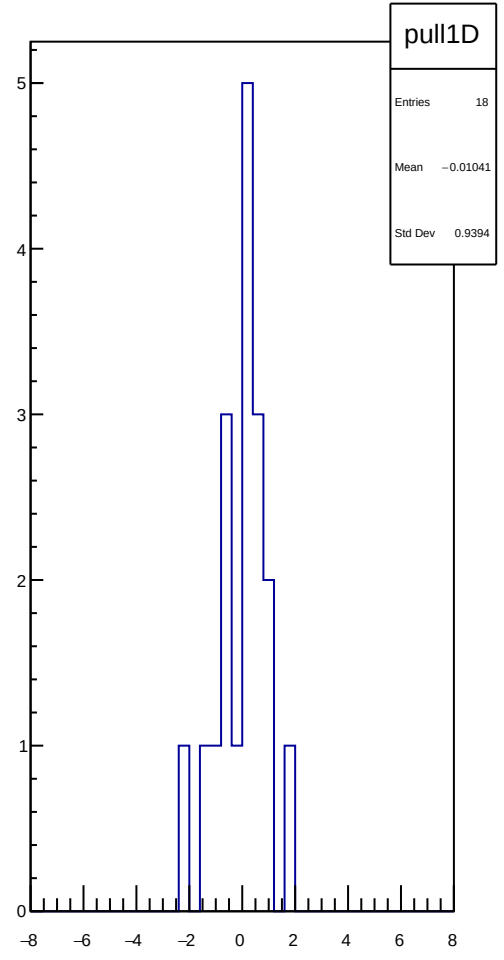

asym_sam_37_48_dd_correction_rms vs run
χ² / ndf 1405 / 17
p0 609.9 ± 1.06
680
660
640
620
600
580
560
540
520
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

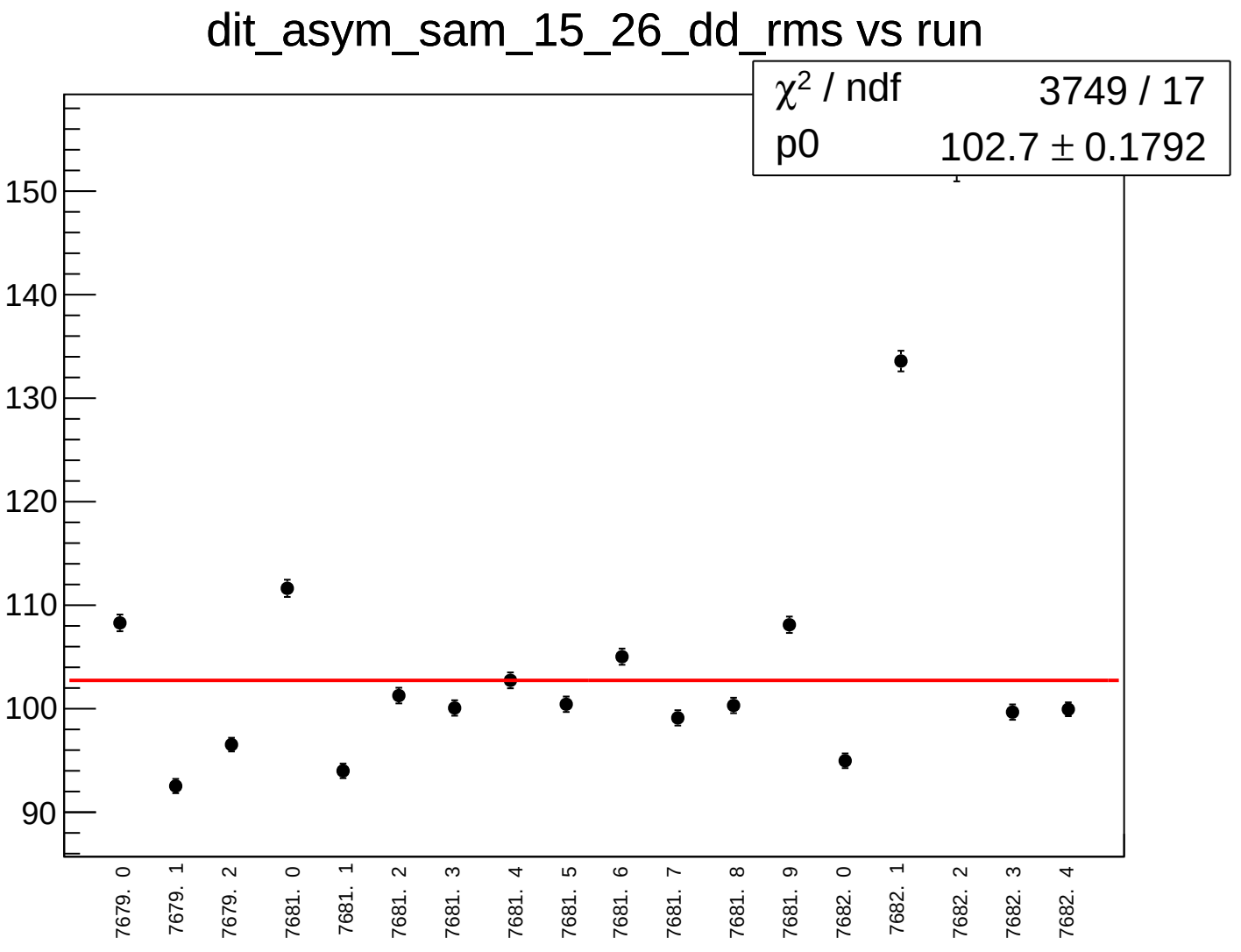

asym_sam_37_48_dd_mean vs run
χ² / ndf 29 / 17
p0 1474 ± 1464
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −655.3
Std Dev 670.3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

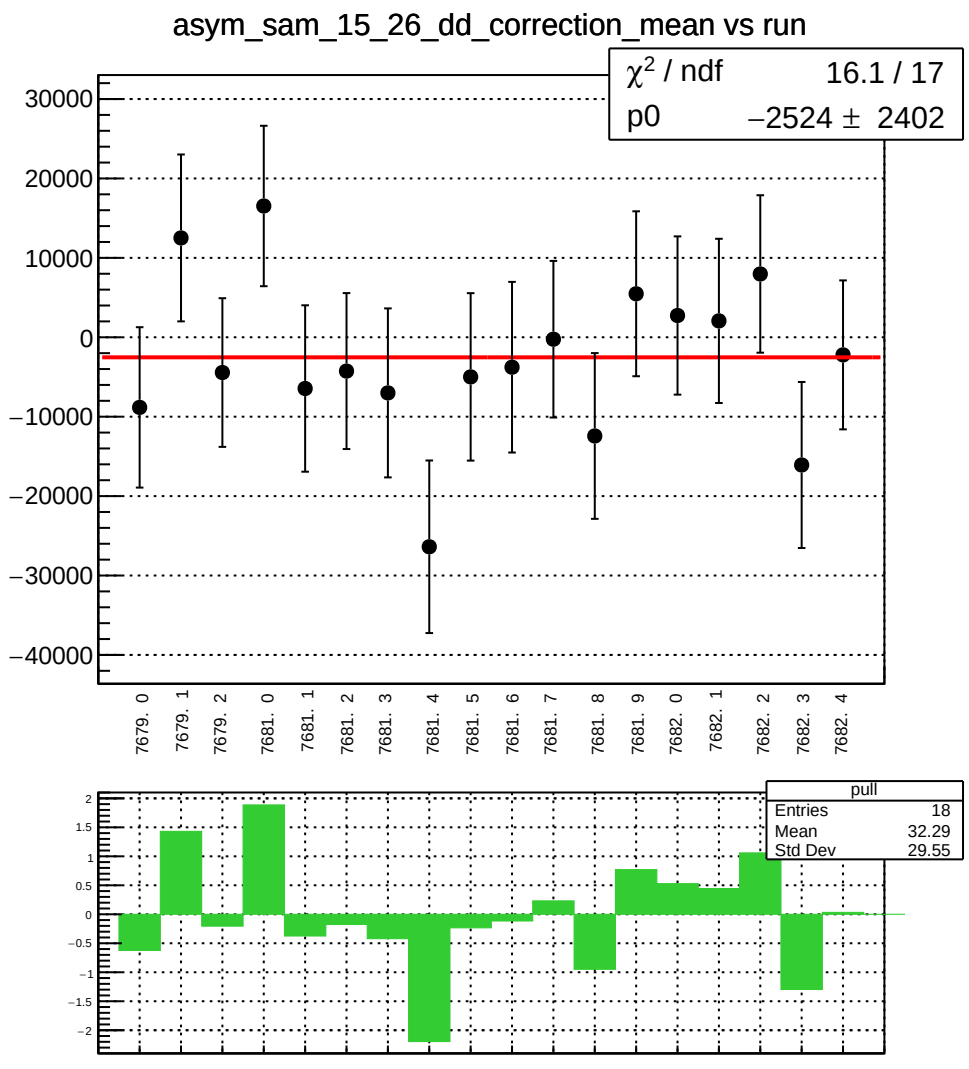

pull1D
Entries 18
Mean 0.0003389
Std Dev 1.269
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

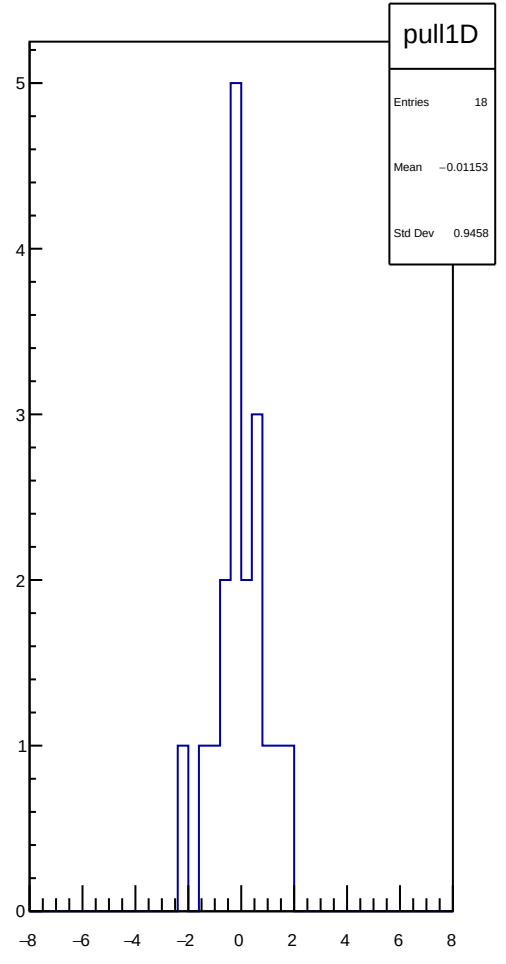

asym_sam_37_48_dd_rms vs run
χ² / ndf 1760 / 17
p0 595.3 ± 1.035
680
660
640
620
600
580
560
540
520
500
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

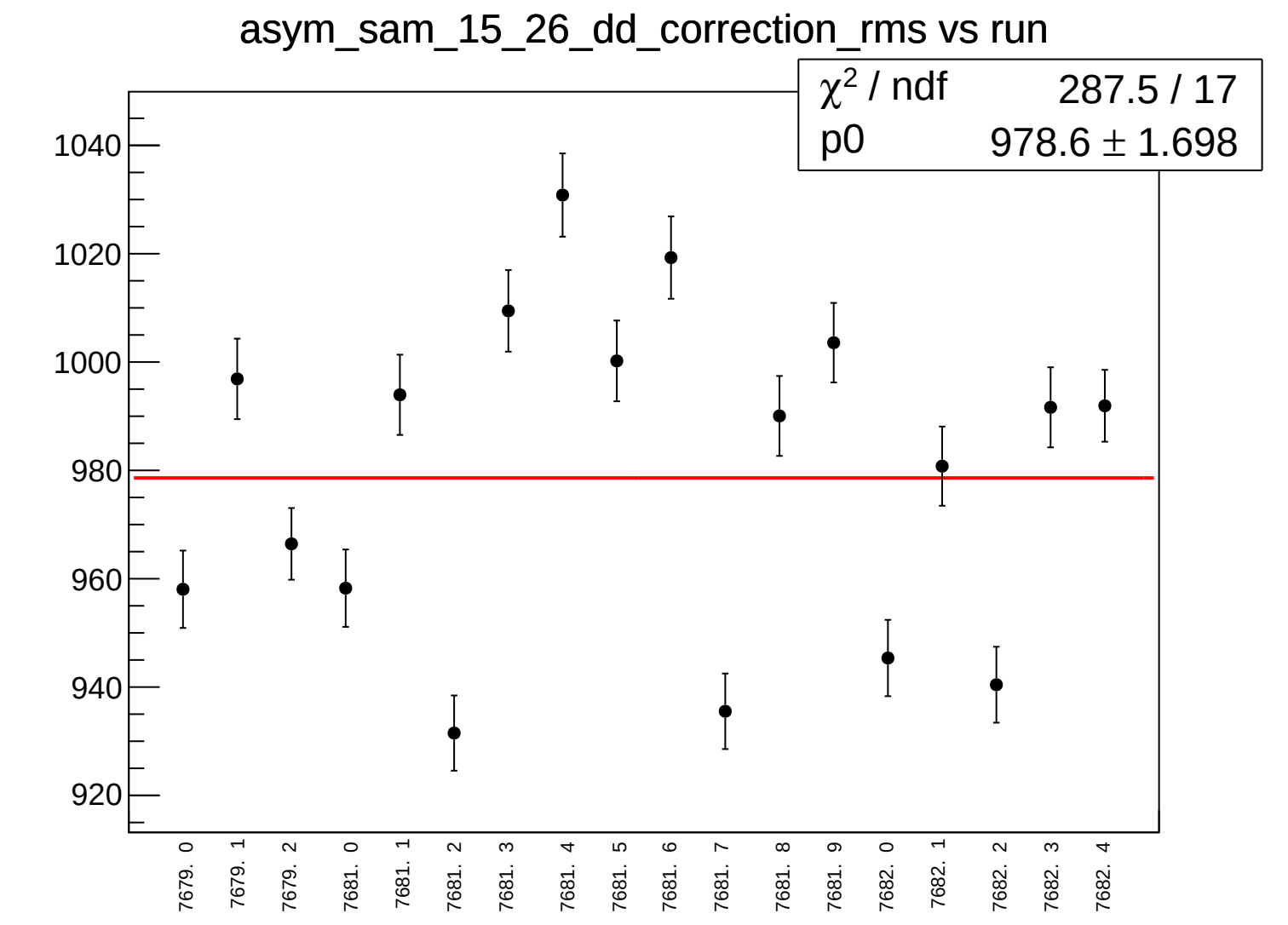

dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 15.89 / 17
p0 115.1 ± 253.4
3000
2000
1000
0
−1000
−2000
−3000
−4000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −84.9
Std Dev 97.02
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

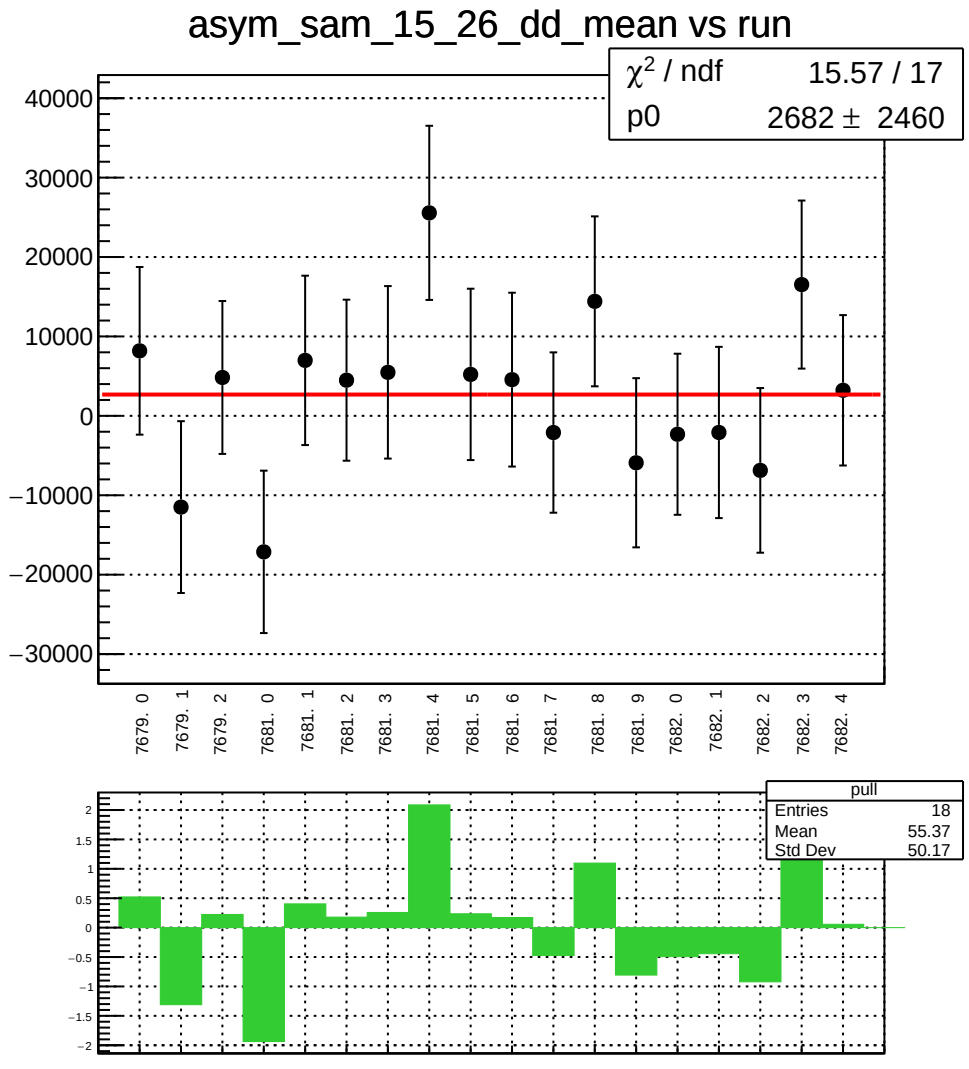

pull1D
Entries 18
Mean −0.01041
Std Dev 0.9394
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

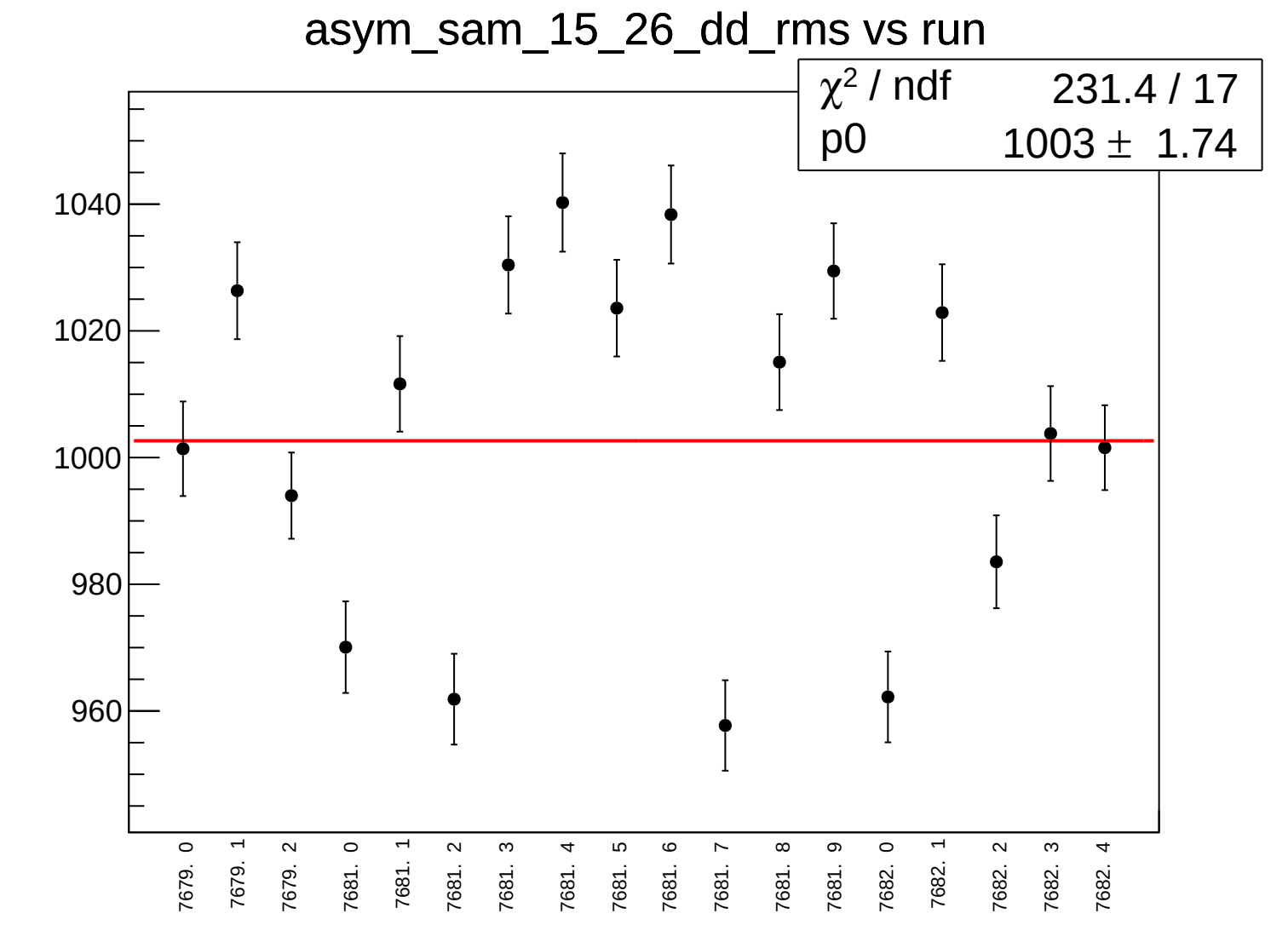

dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 3749 / 17
p0 102.7 ± 0.1792
150
140
130
120
110
100
90
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

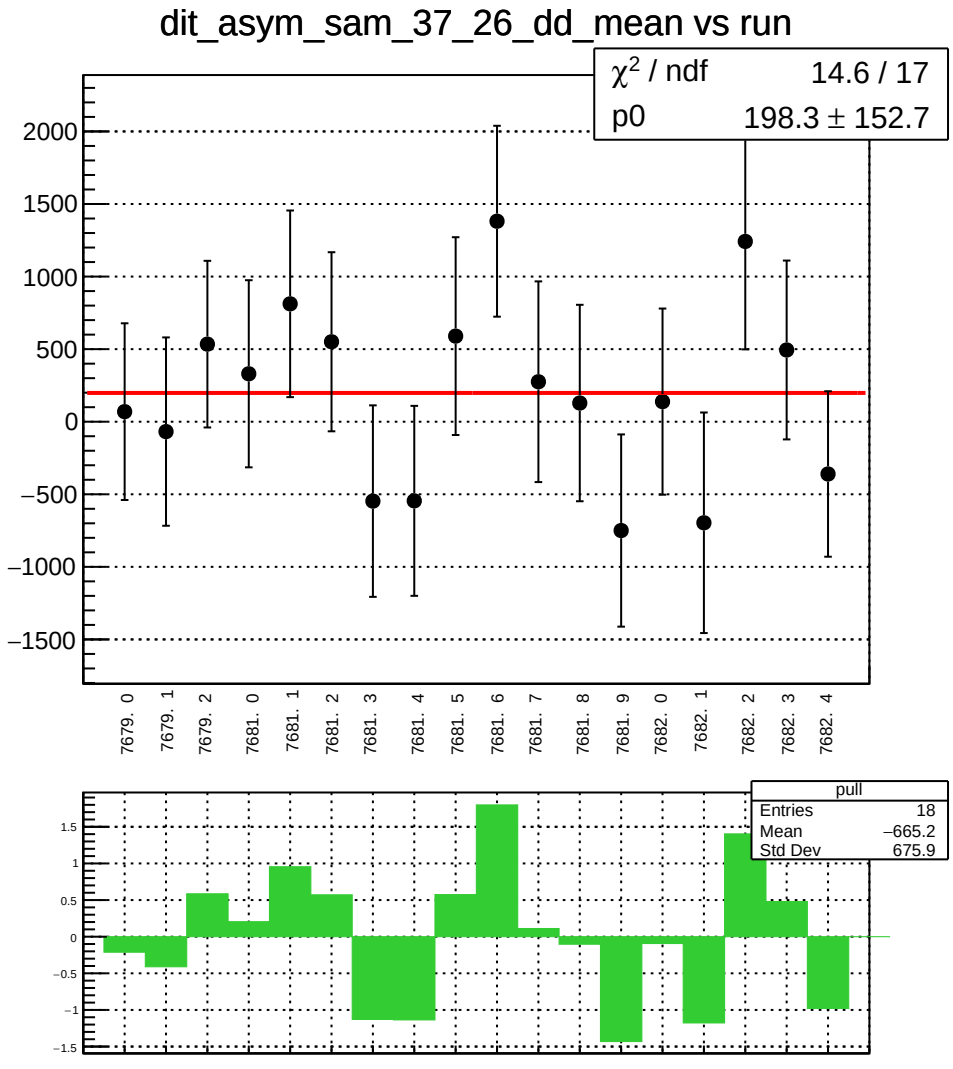

asym_sam_15_26_dd_correction_mean vs run
χ² / ndf 16.1 / 17
p0 −2524 ± 2402
30000
20000
10000
0
−10000
−20000
−30000
−40000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 32.29
Std Dev 29.55
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

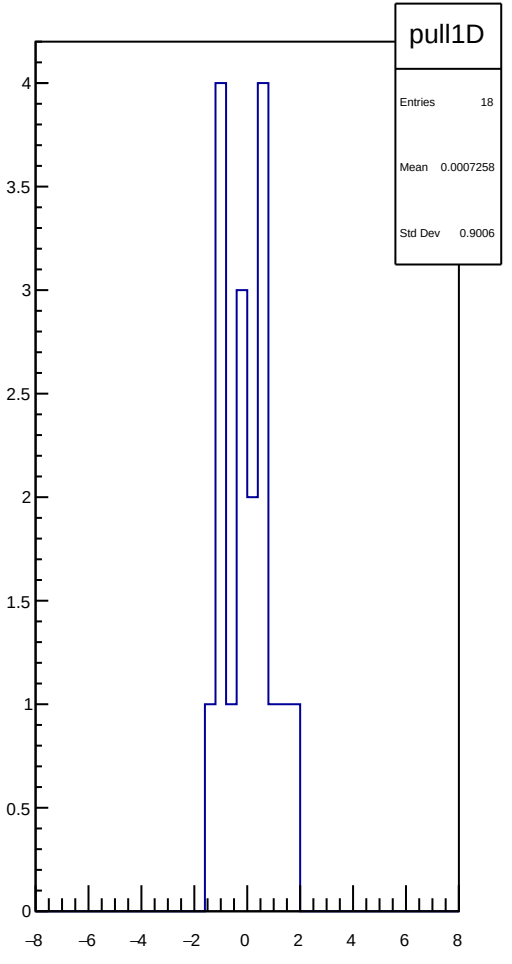

pull1D
Entries 18
Mean −0.01153
Std Dev 0.9458
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

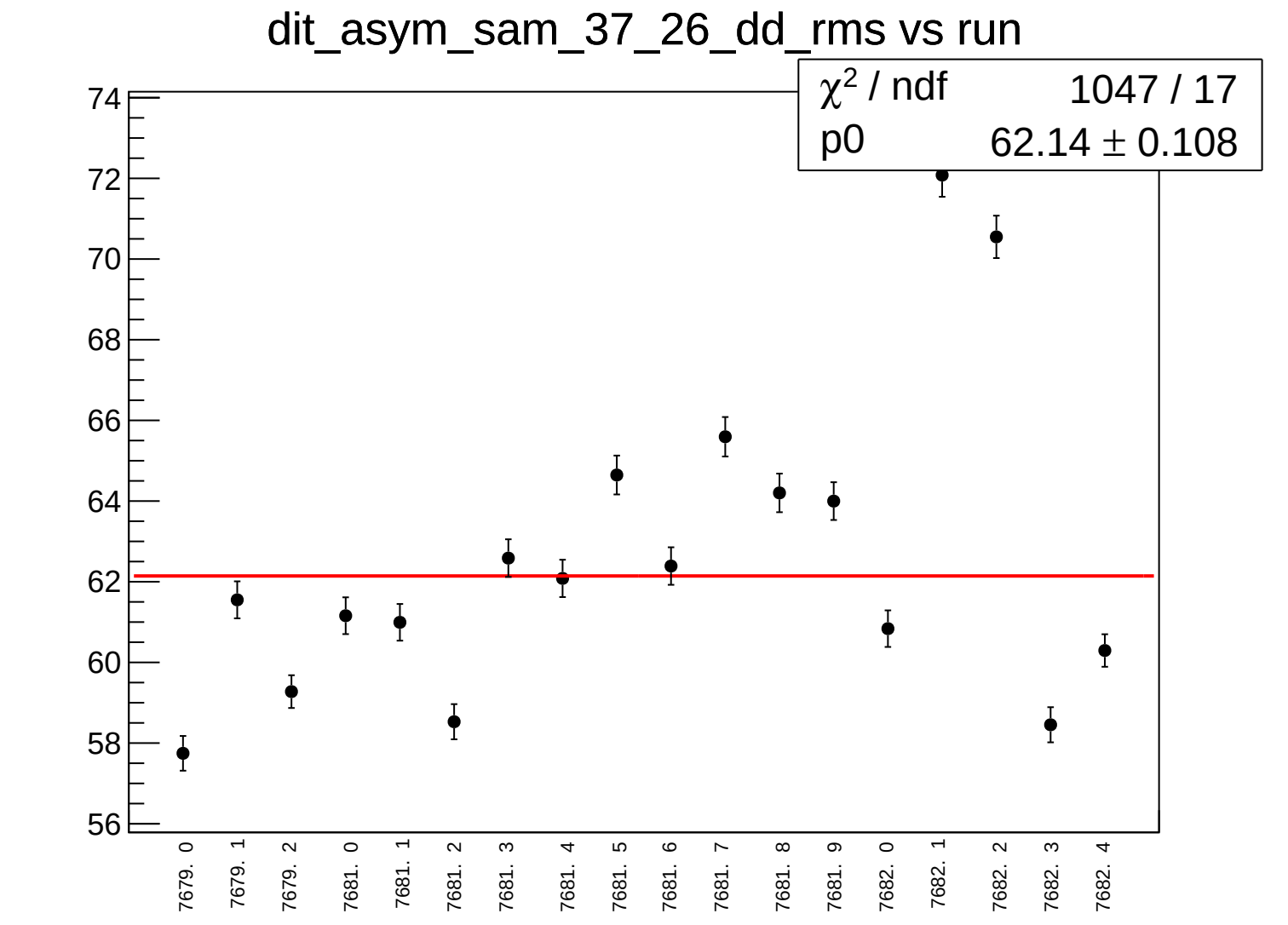

asym_sam_15_26_dd_correction_rms vs run
χ² / ndf 287.5 / 17
p0 978.6 ± 1.698
1040
1020
1000
980
960
940
920
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

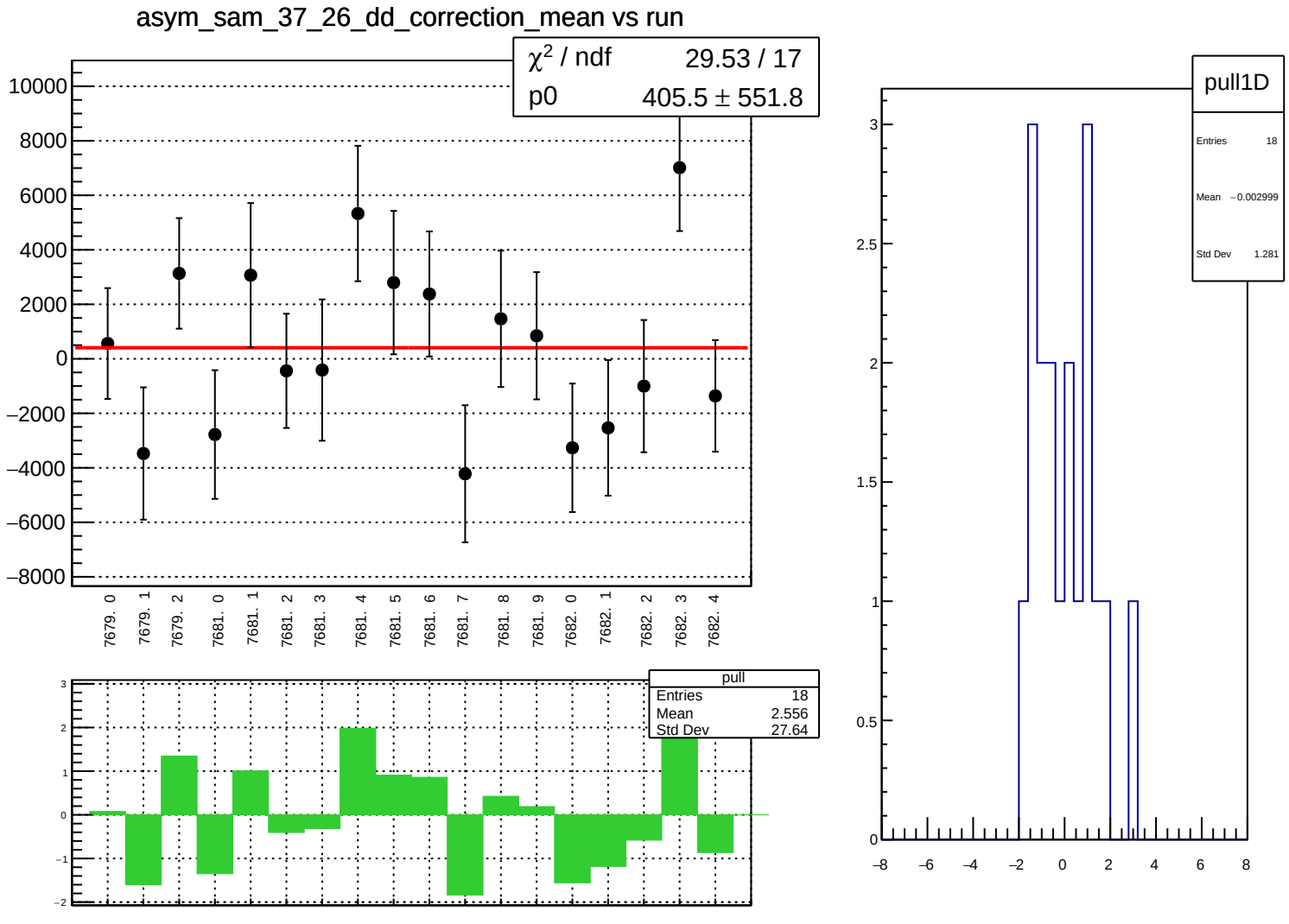

asym_sam_15_26_dd_mean vs run
χ² / ndf 15.57 / 17
p0 2682 ± 2460
40000
30000
20000
10000
0
−10000
−20000
−30000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 55.37
Std Dev 50.17
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 18
Mean 0.008642
Std Dev 0.9301
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

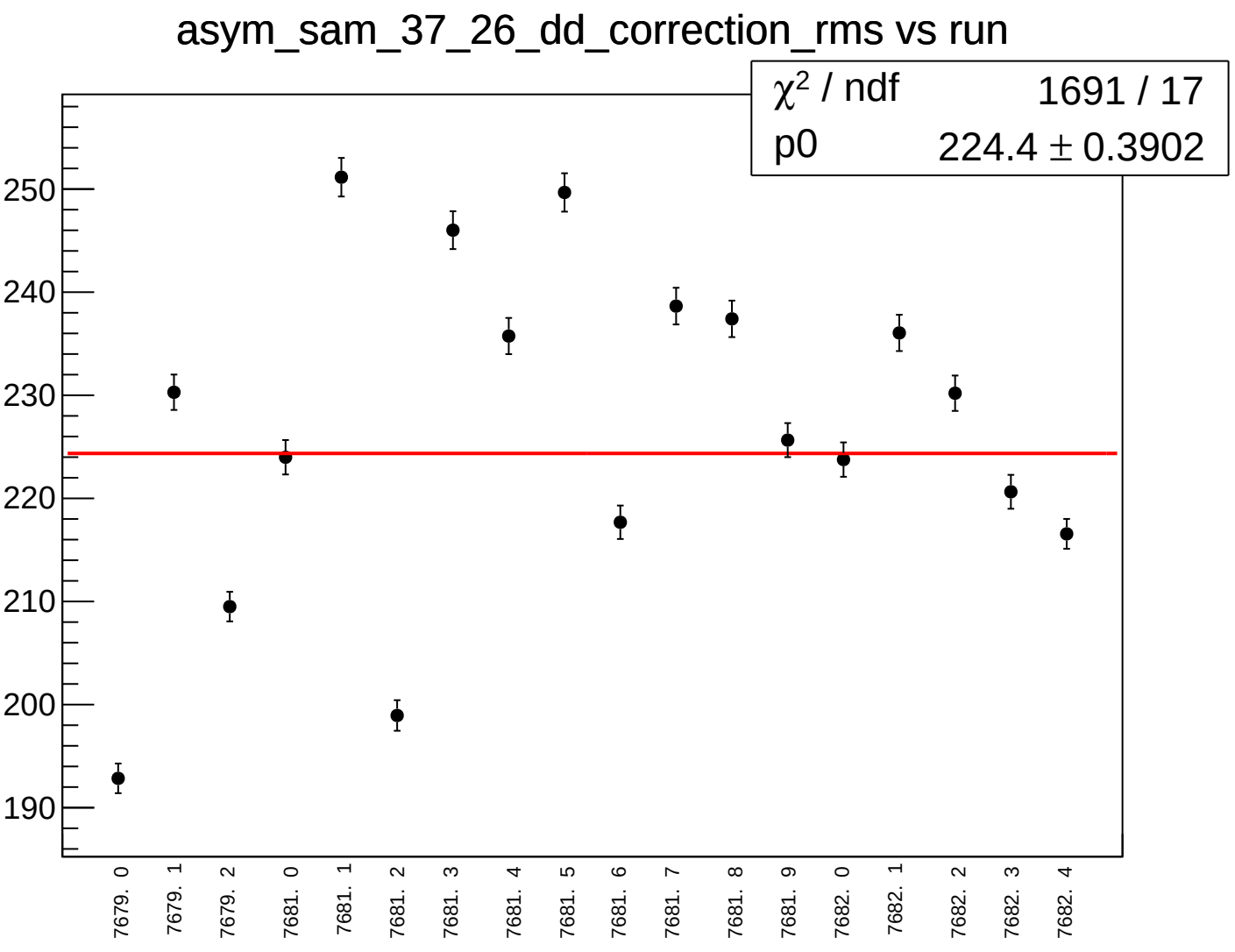

asym_sam_15_26_dd_rms vs run
χ² / ndf 231.4 / 17
p0 1003 ± 1.74
1040
1020
1000
980
960
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

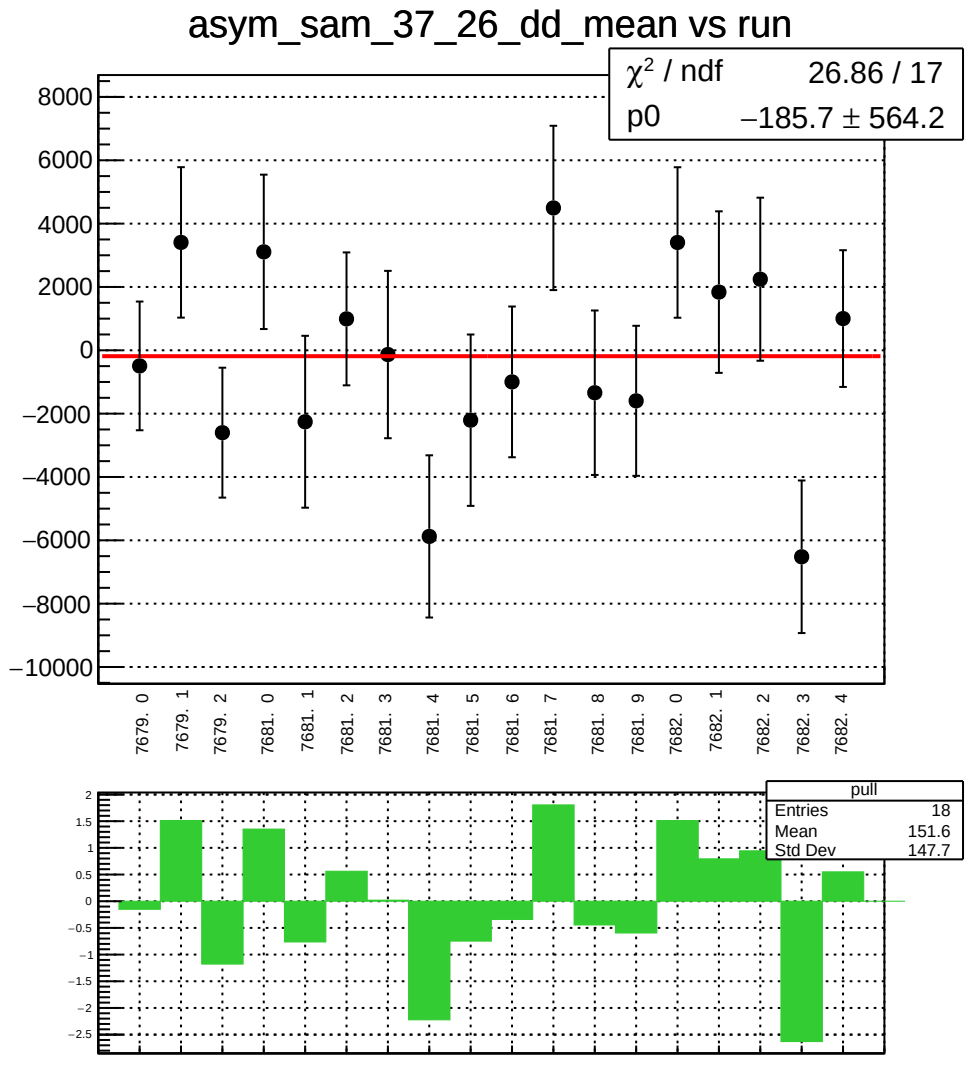

dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 14.6 / 17
p0 198.3 ± 152.7
2000
1500
1000
500
0
−500
−1000
−1500
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −665.2
Std Dev 675.9
1.5
1
0.5
0
−0.5
−1
−1.5

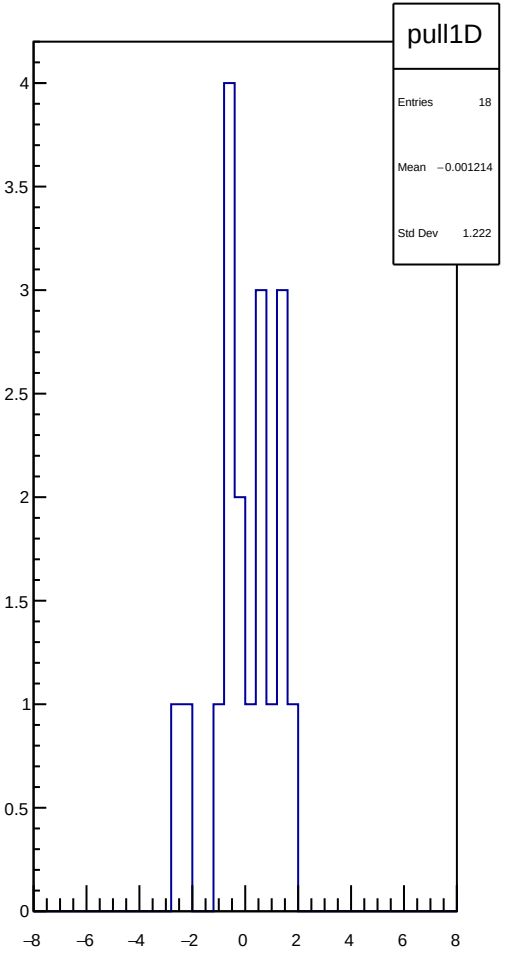

pull1D
Entries 18
Mean 0.0007258
Std Dev 0.9006
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

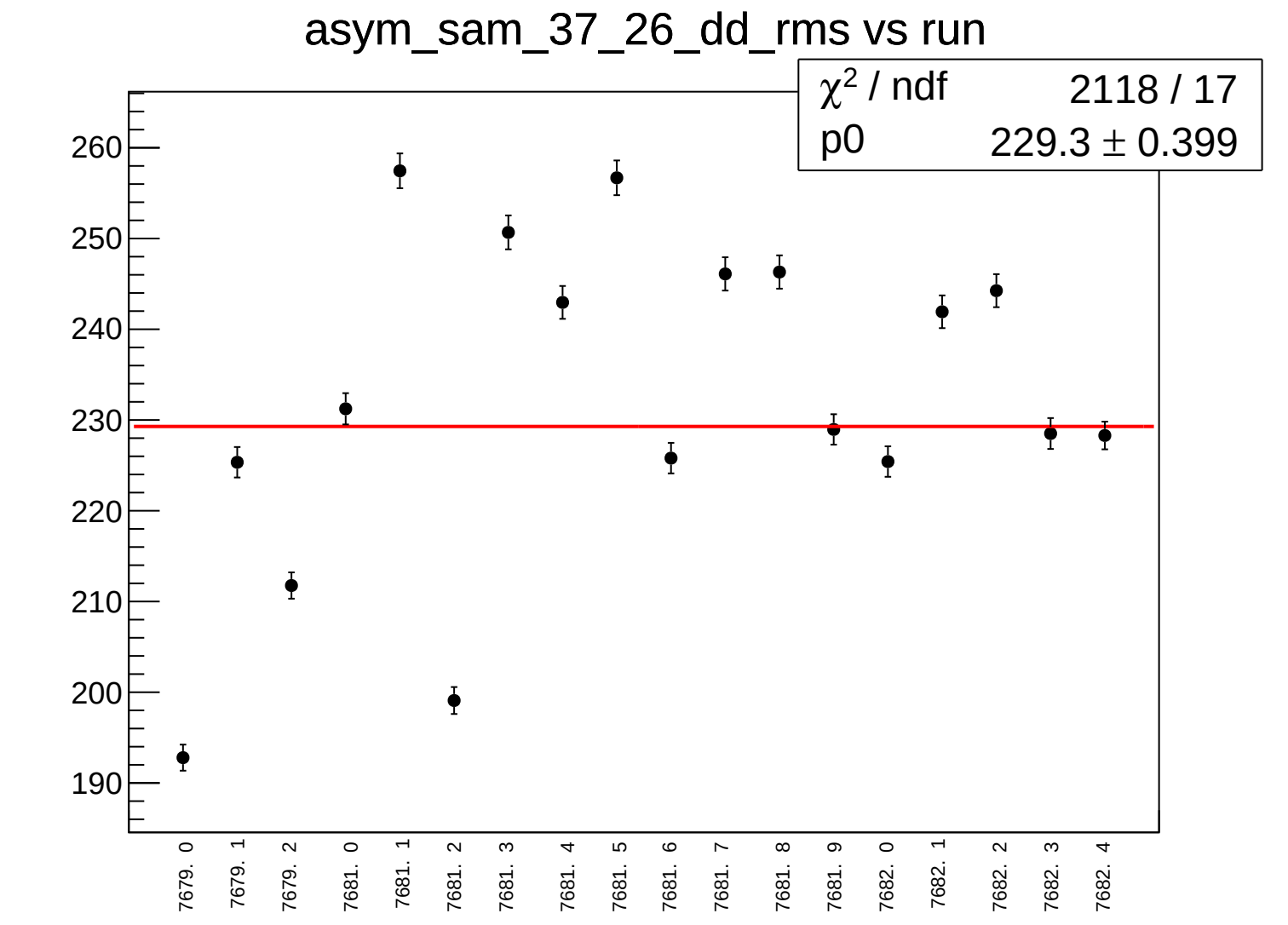

dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 1047 / 17
p0 62.14 ± 0.108
74
72
70
68
66
64
62
60
58
56
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

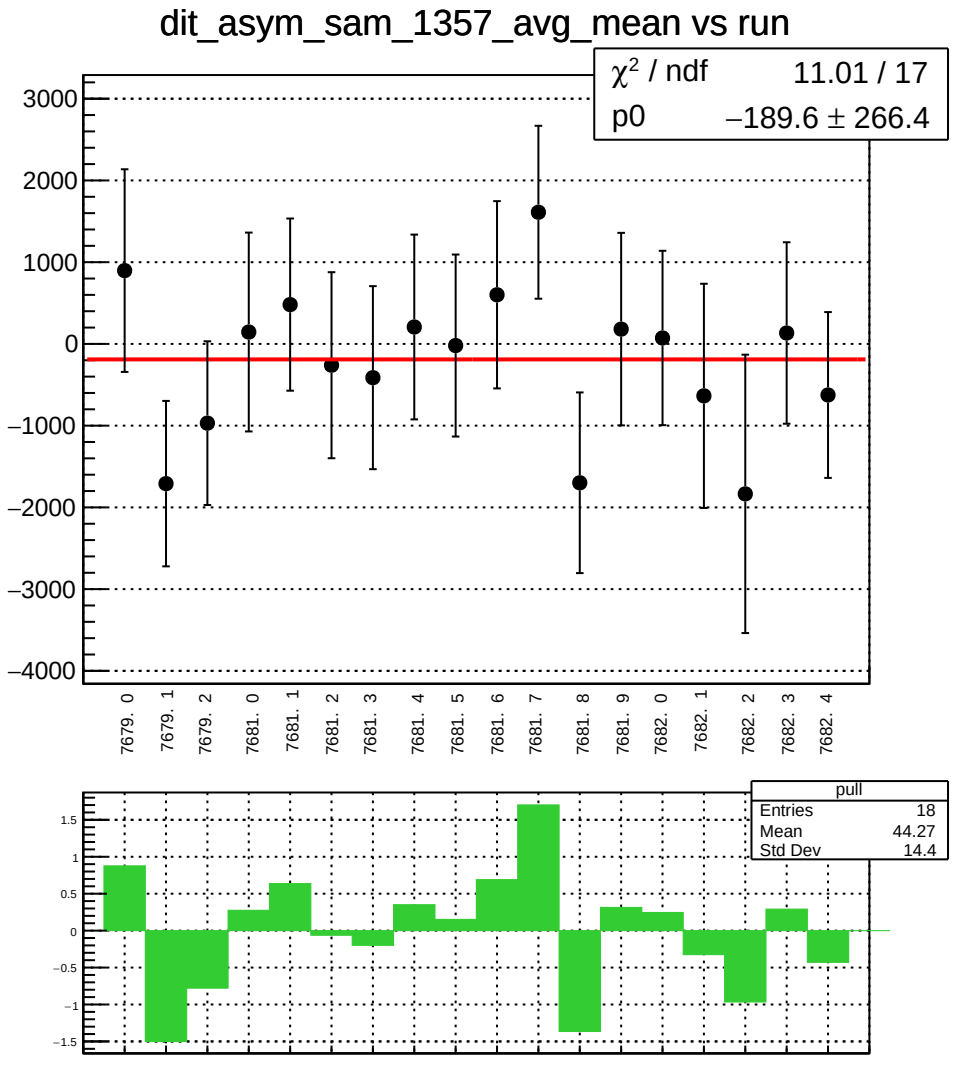

asym_sam_37_26_dd_correction_mean vs run
χ² / ndf 29.53 / 17
p0 405.5 ± 551.8
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 2.556
Std Dev 27.64
pull1D
Entries 18
Mean −0.002999
Std Dev 1.281

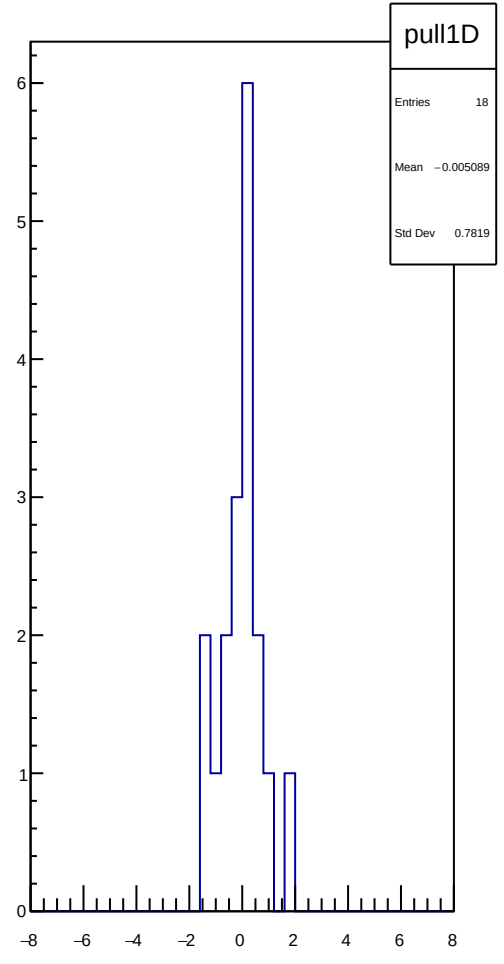

asym_sam_37_26_dd_correction_rms vs run
χ² / ndf 1691 / 17
p0 224.4 ± 0.3902
250
240
230
220
210
200
190
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

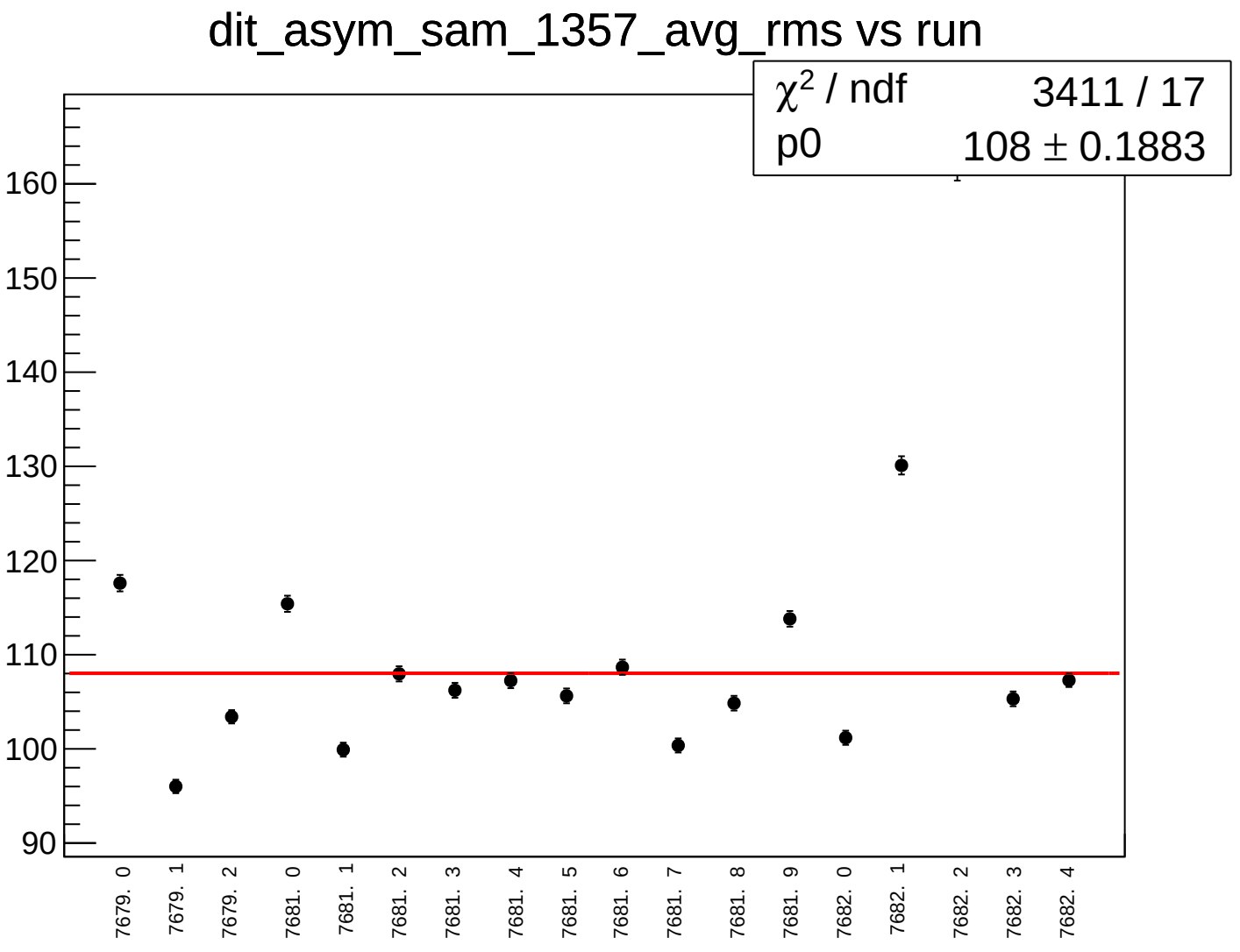

asym_sam_37_26_dd_mean vs run
χ² / ndf 26.86 / 17
p0 −185.7 ± 564.2
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 151.6
Std Dev 147.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

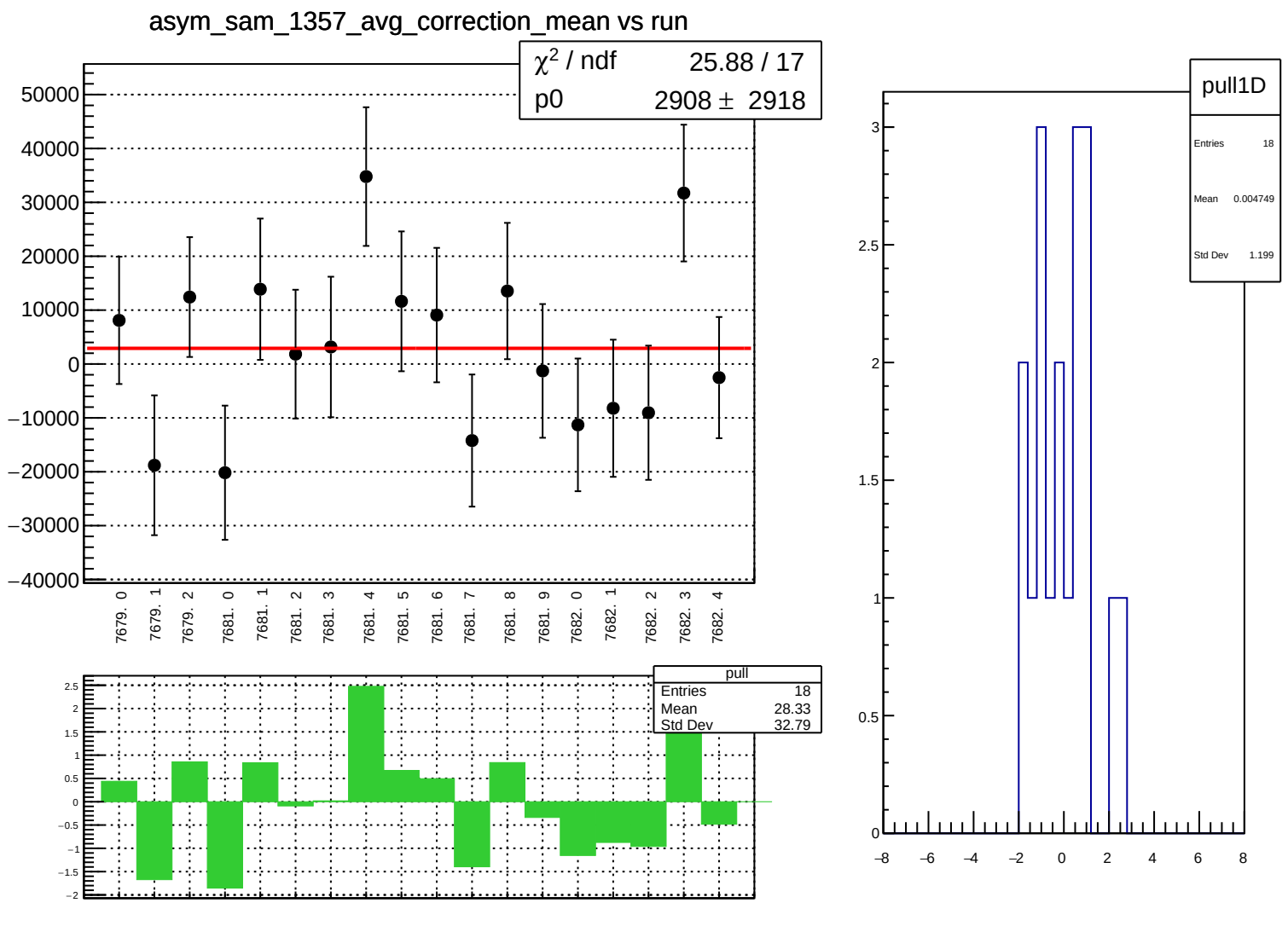

pull1D
Entries 18
Mean −0.001214
Std Dev 1.222
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

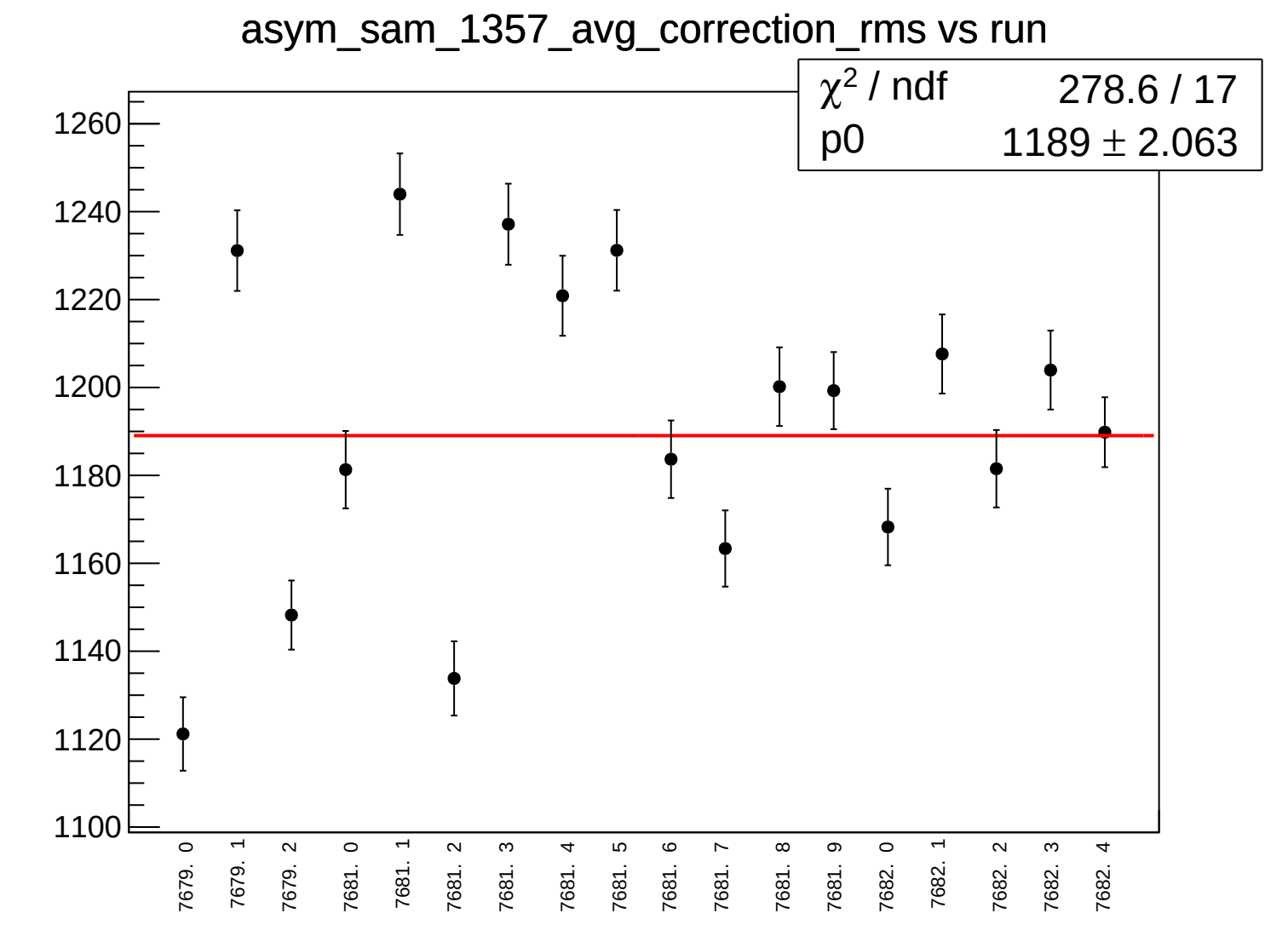

asym_sam_37_26_dd_rms vs run
χ² / ndf 2118 / 17
p0 229.3 ± 0.399
260
250
240
230
220
210
200
190
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

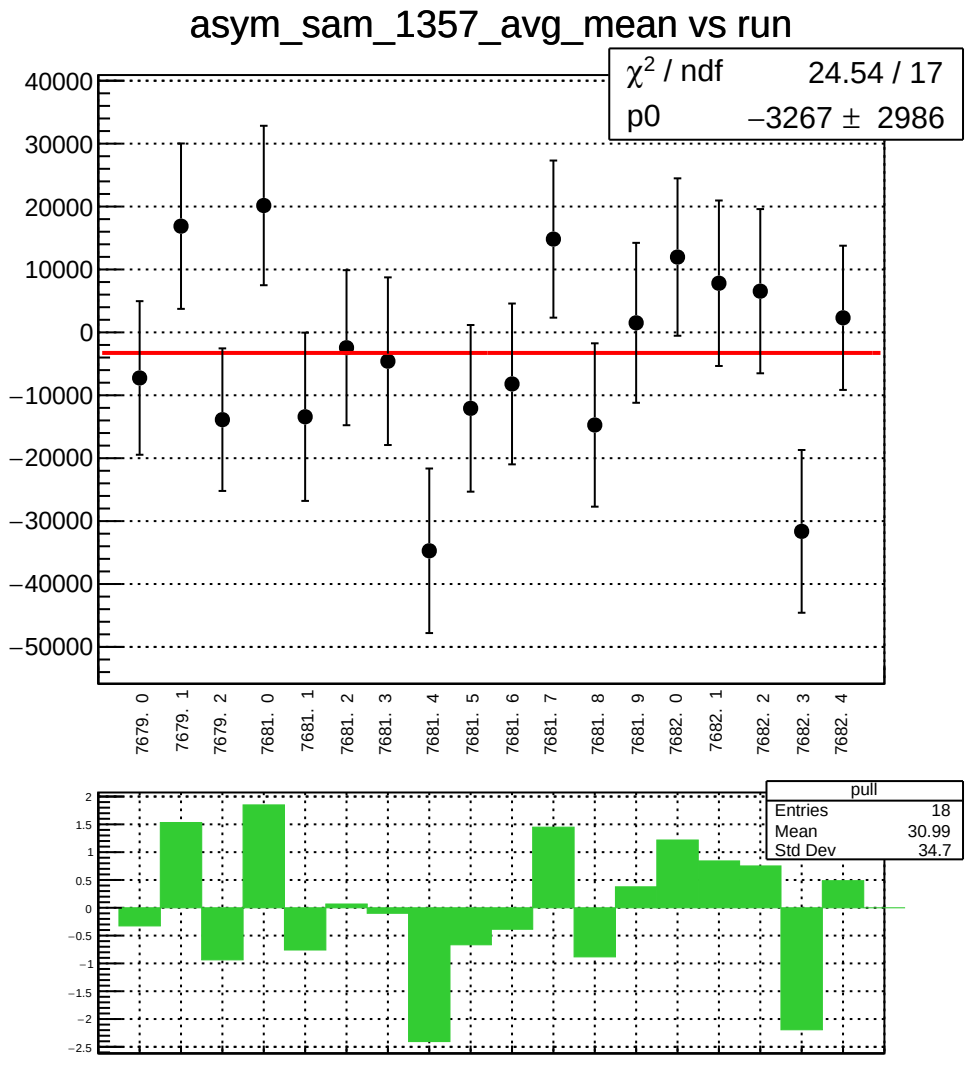

dit_asym_sam_1357_avg_mean vs run
χ² / ndf 11.01 / 17
p0 −189.6 ± 266.4
3000
2000
1000
0
−1000
−2000
−3000
−4000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 44.27
Std Dev 14.4
1.5
1
0.5
0
−0.5
−1
−1.5

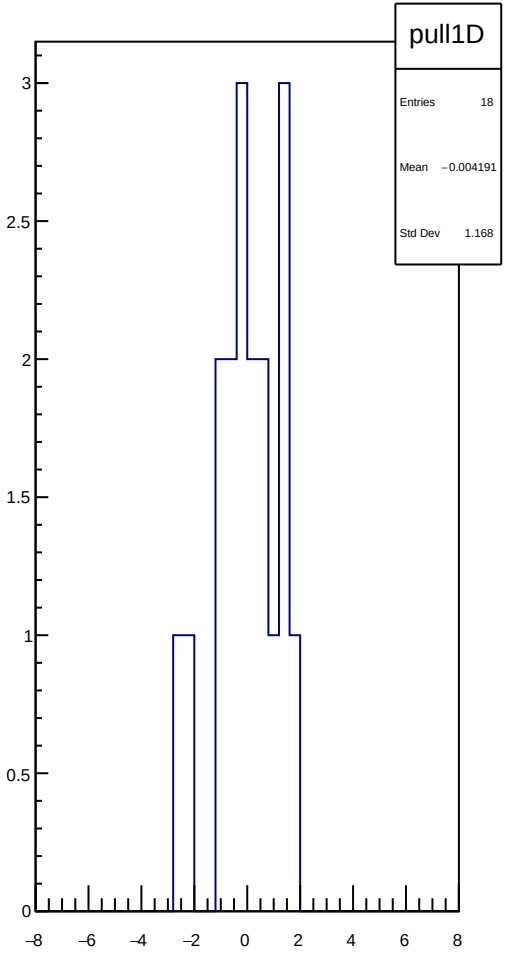

pull1D
Entries 18
Mean −0.005089
Std Dev 0.7819
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

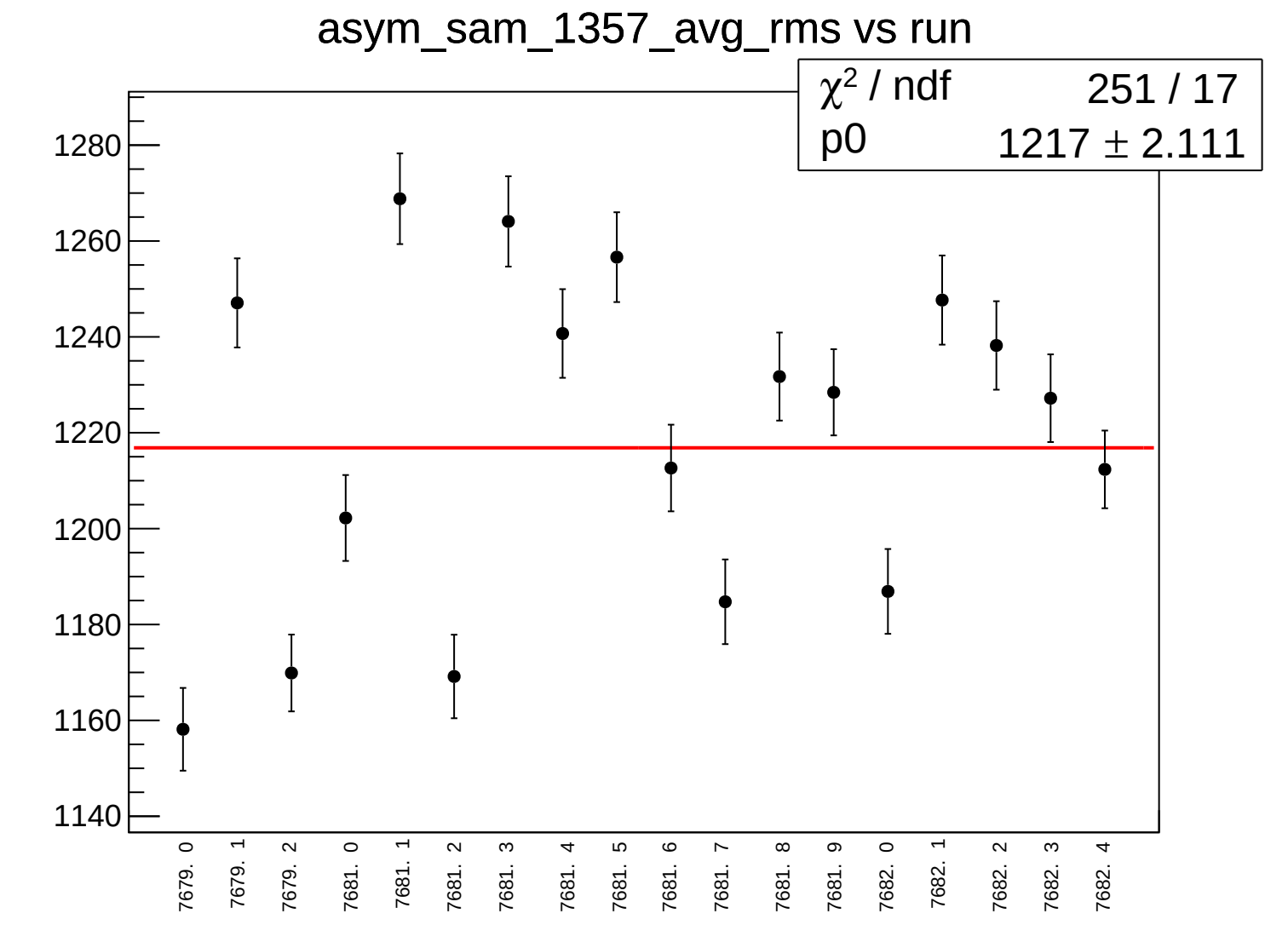

dit_asym_sam_1357_avg_rms vs run
χ² / ndf 3411 / 17
p0 108 ± 0.1883
160
150
140
130
120
110
100
90
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

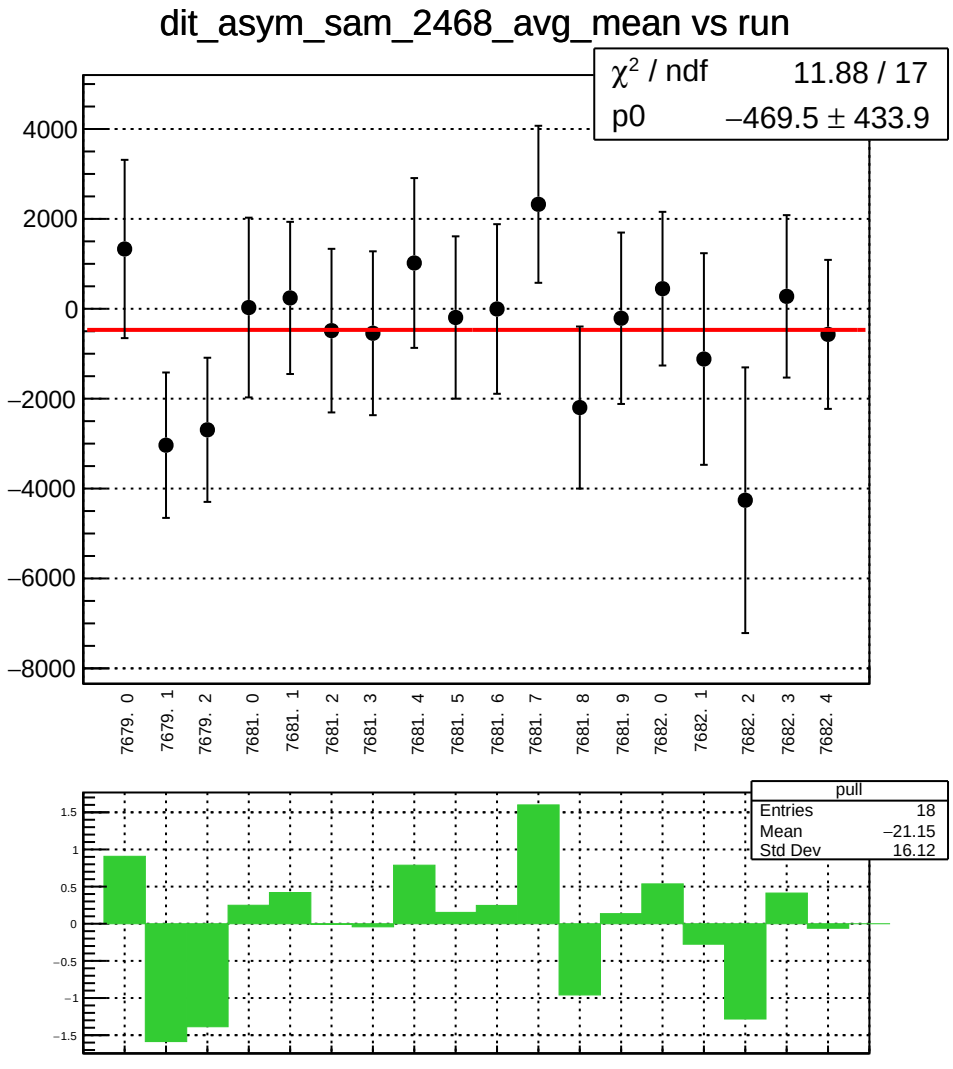

asym_sam_1357_avg_correction_mean vs run
χ² / ndf 25.88 / 17
p0 2908 ± 2918
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 28.33
Std Dev 32.79
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 18
Mean 0.004749
Std Dev 1.199
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

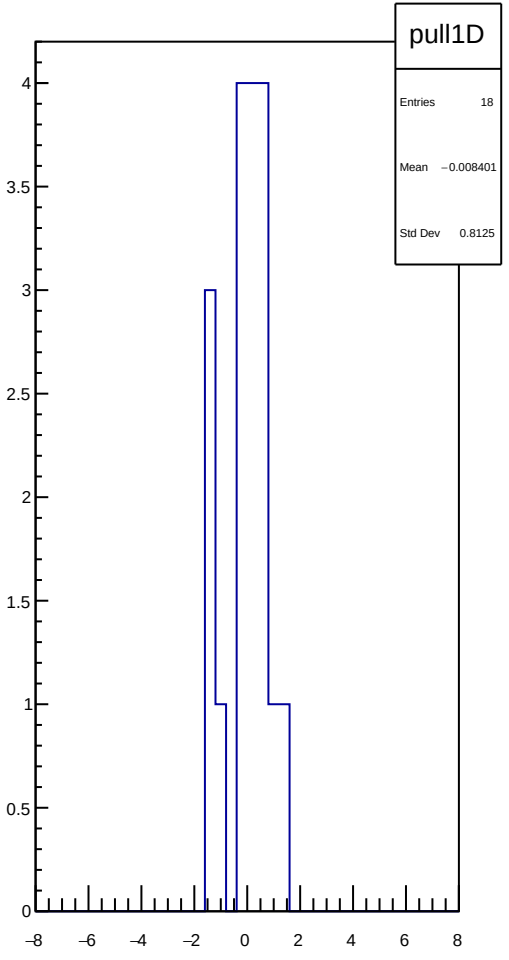

asym_sam_1357_avg_correction_rms vs run
χ² / ndf 278.6 / 17
p0 1189 ± 2.063
1260
1240
1220
1200
1180
1160
1140
1120
1100
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

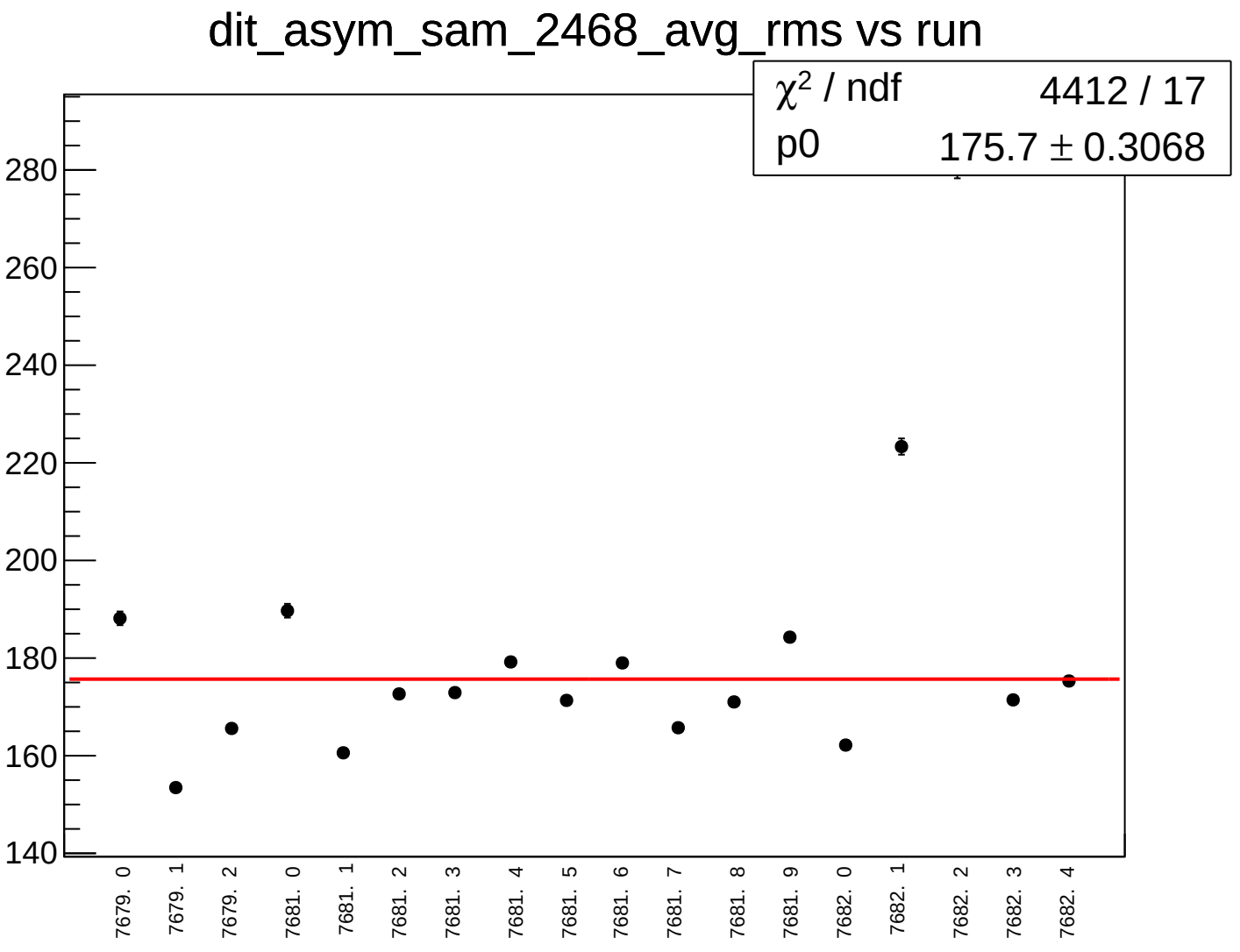

asym_sam_1357_avg_mean vs run
χ² / ndf 24.54 / 17
p0 −3267 ± 2986
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 30.99
Std Dev 34.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

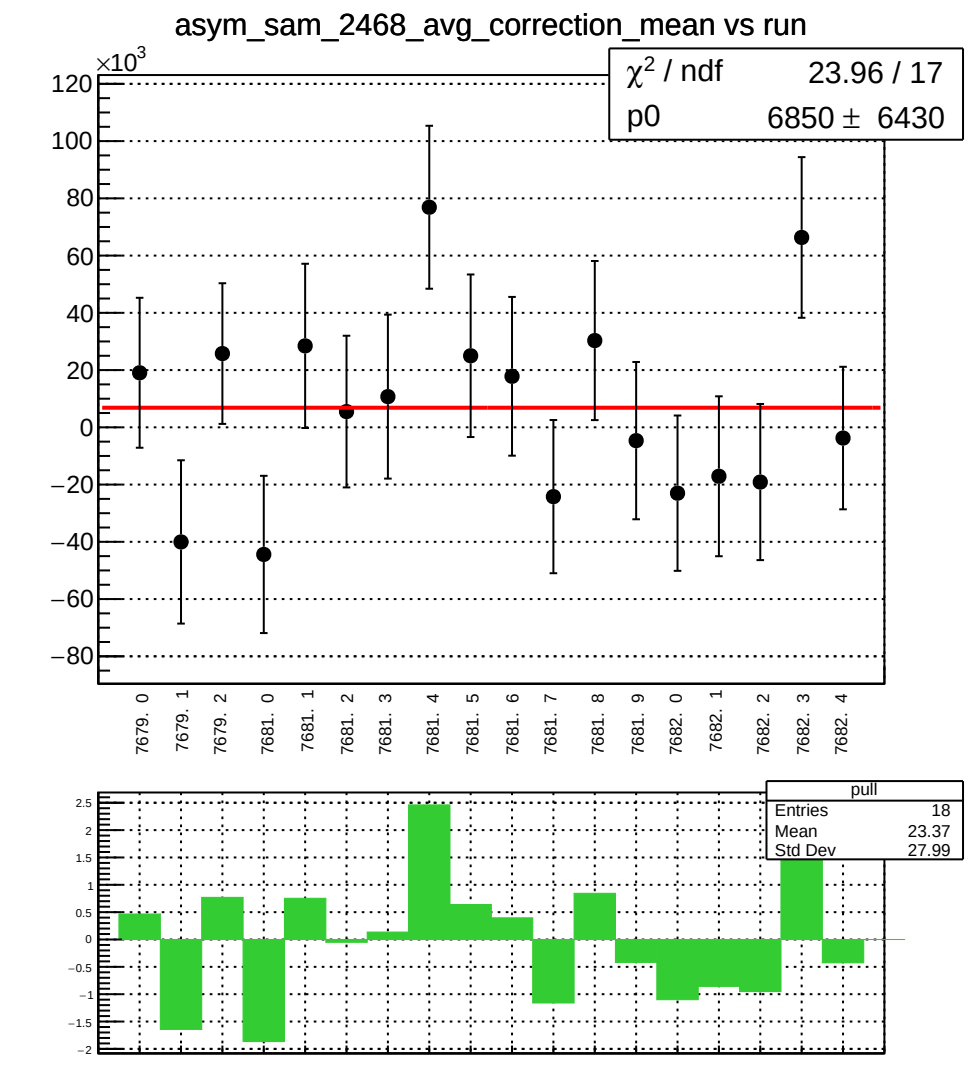

pull1D
Entries 18
Mean −0.004191
Std Dev 1.168
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

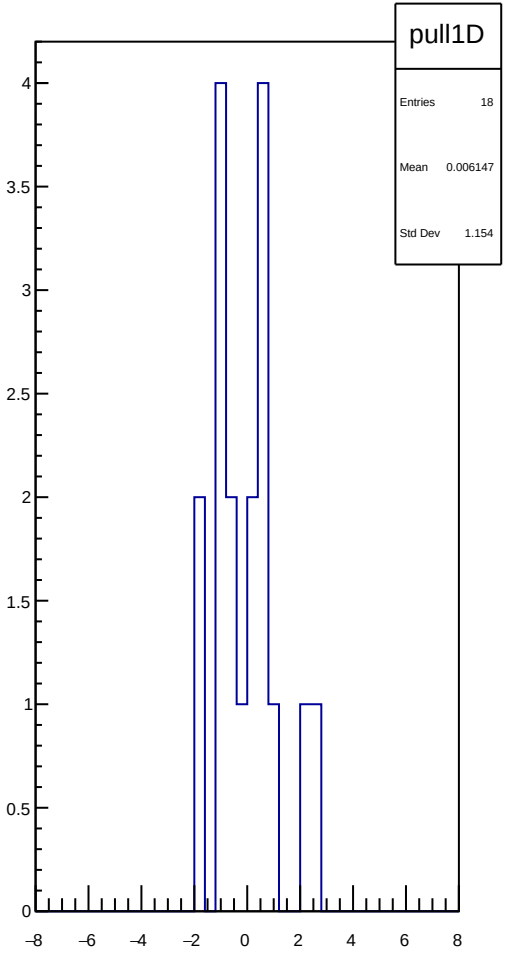

asym_sam_1357_avg_rms vs run
χ² / ndf 251 / 17
p0 1217 ± 2.111
1280
1260
1240
1220
1200
1180
1160
1140
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

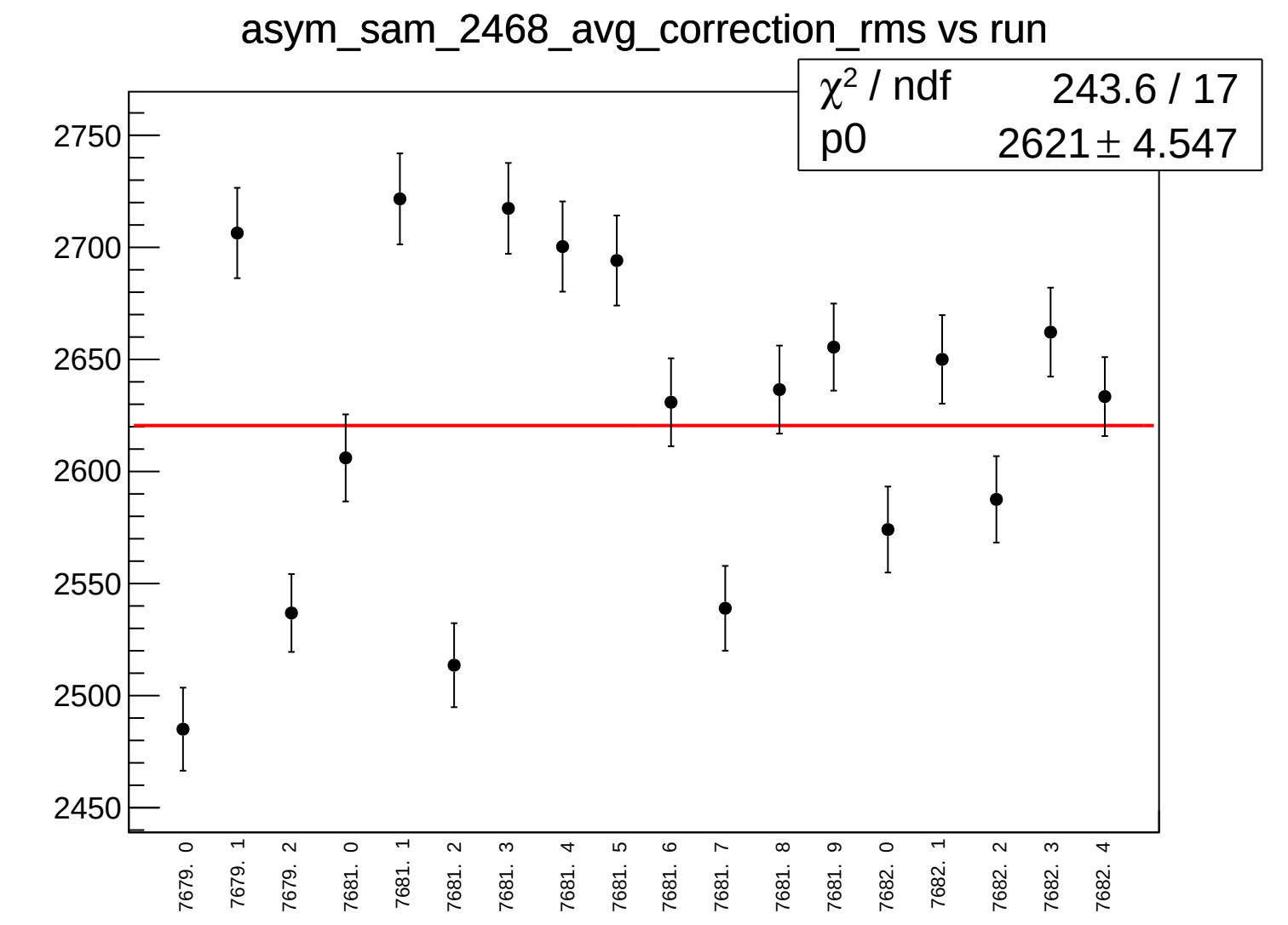

dit_asym_sam_2468_avg_mean vs run
χ² / ndf 11.88 / 17
p0 −469.5 ± 433.9
4000
2000
0
−2000
−4000
−6000
−8000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −21.15
Std Dev 16.12
1.5
1
0.5
0
−0.5
−1
−1.5

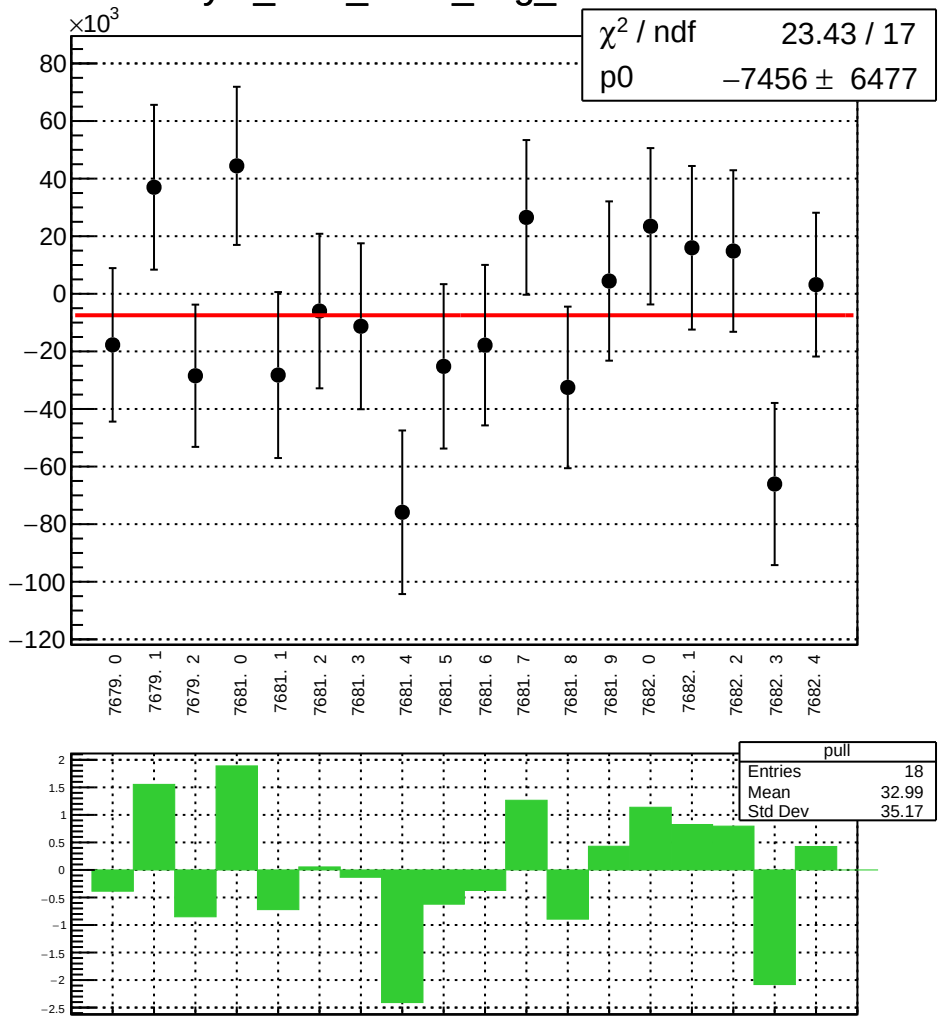

pull1D
Entries 18
Mean −0.008401
Std Dev 0.8125
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

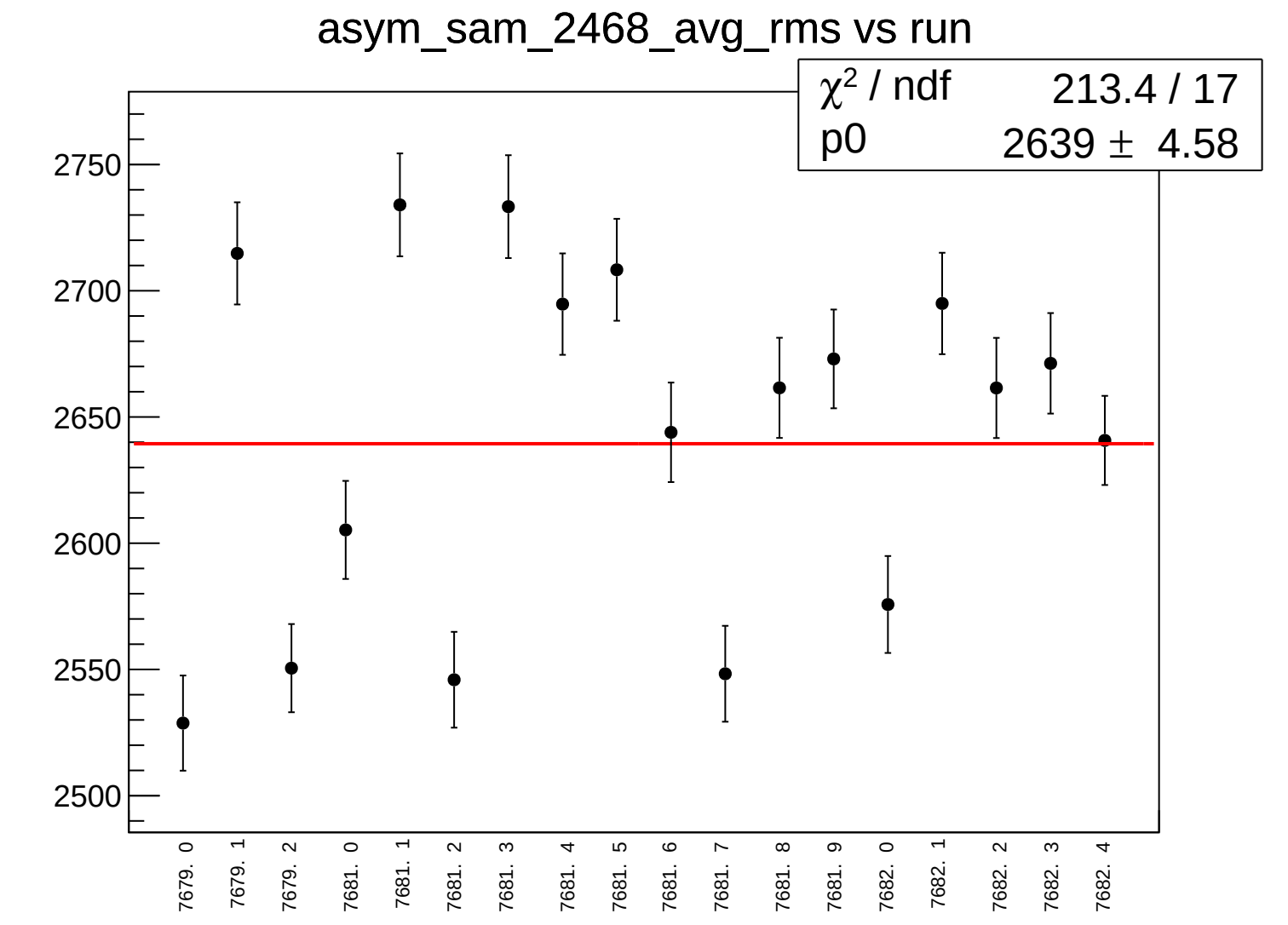

dit_asym_sam_2468_avg_rms vs run
χ² / ndf 4412 / 17
p0 175.7 ± 0.3068
280
260
240
220
200
180
160
140
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

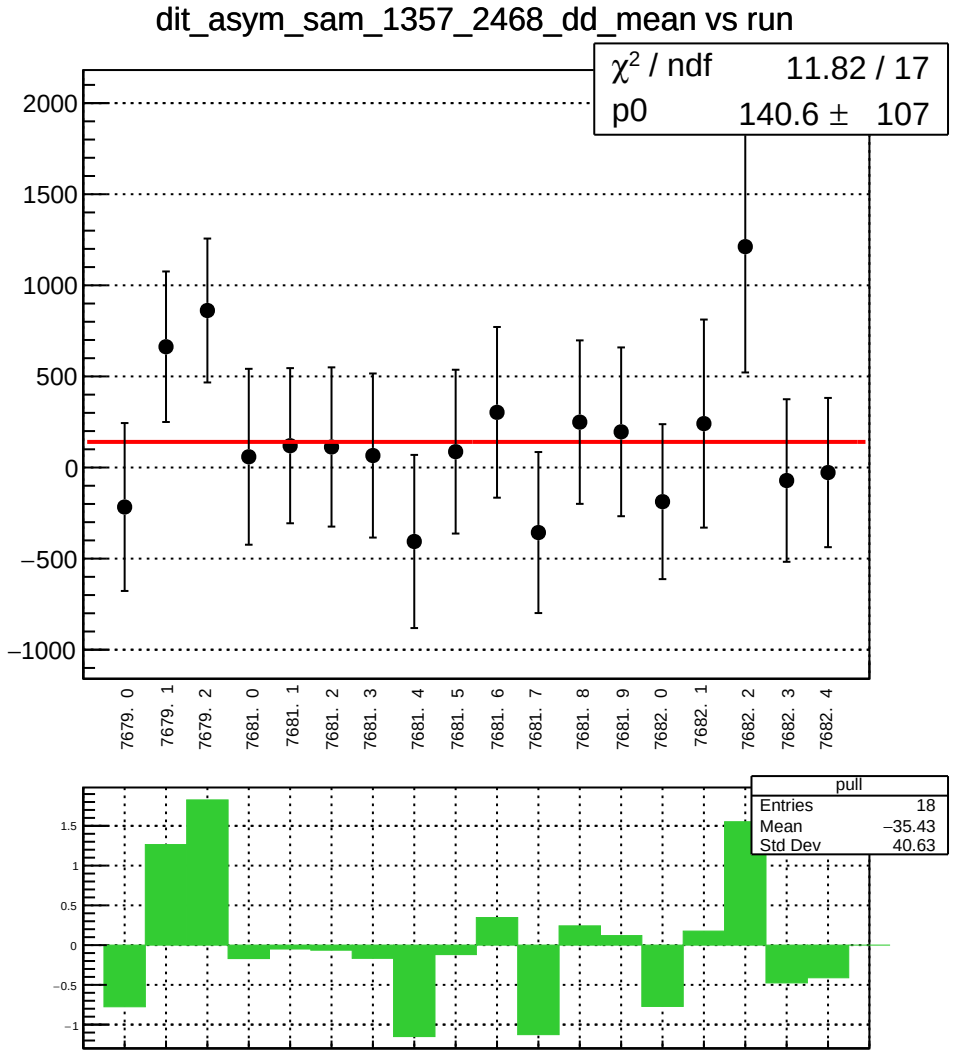

asym_sam_2468_avg_correction_mean vs run
×10^3
χ^2 / ndf 23.96 / 17
p0 6850 ± 6430
120
100
80
60
40
20
0
−20
−40
−60
−80
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 23.37
Std Dev 27.99
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

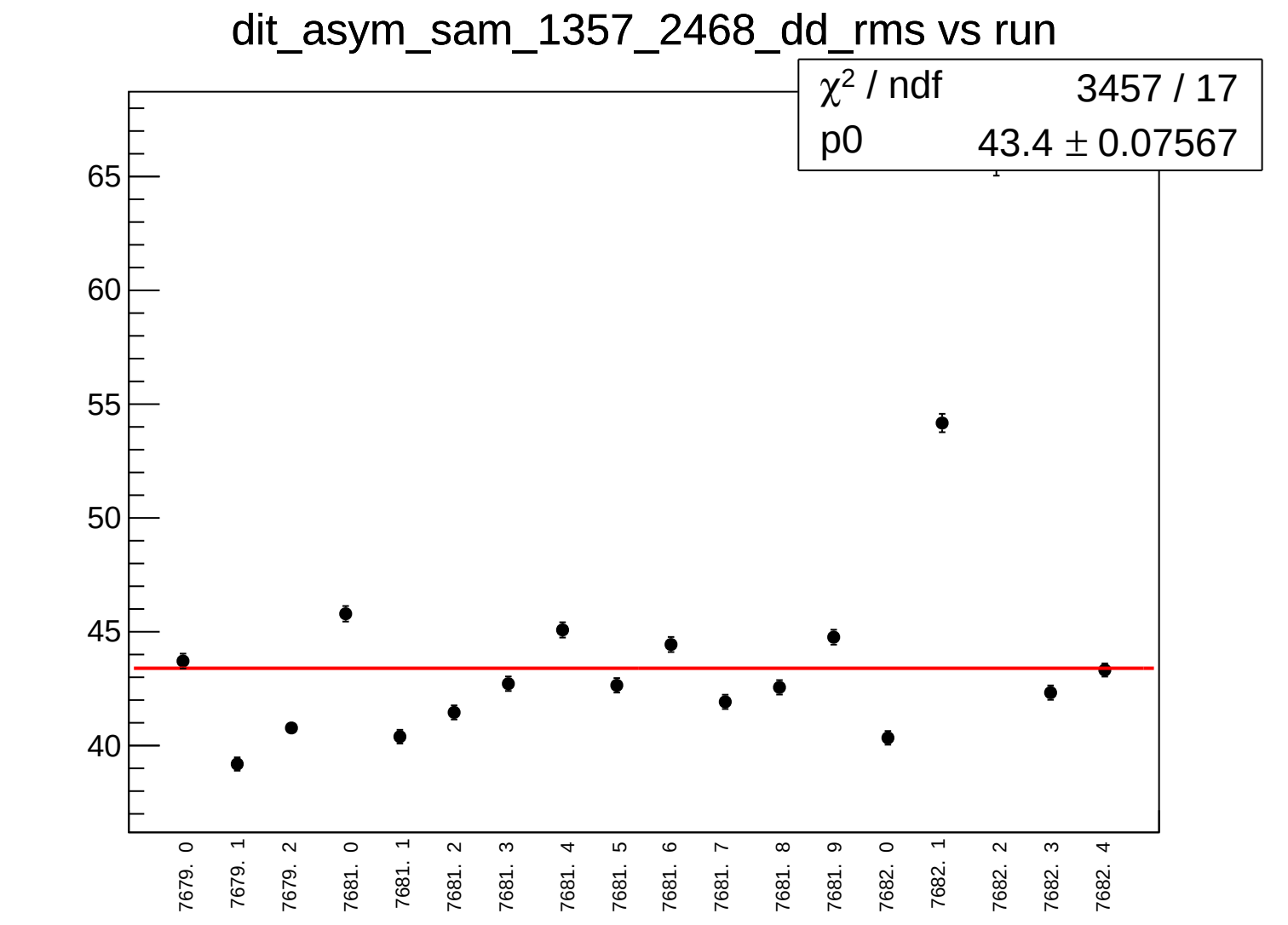

pull1D
Entries 18
Mean 0.006147
Std Dev 1.154
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

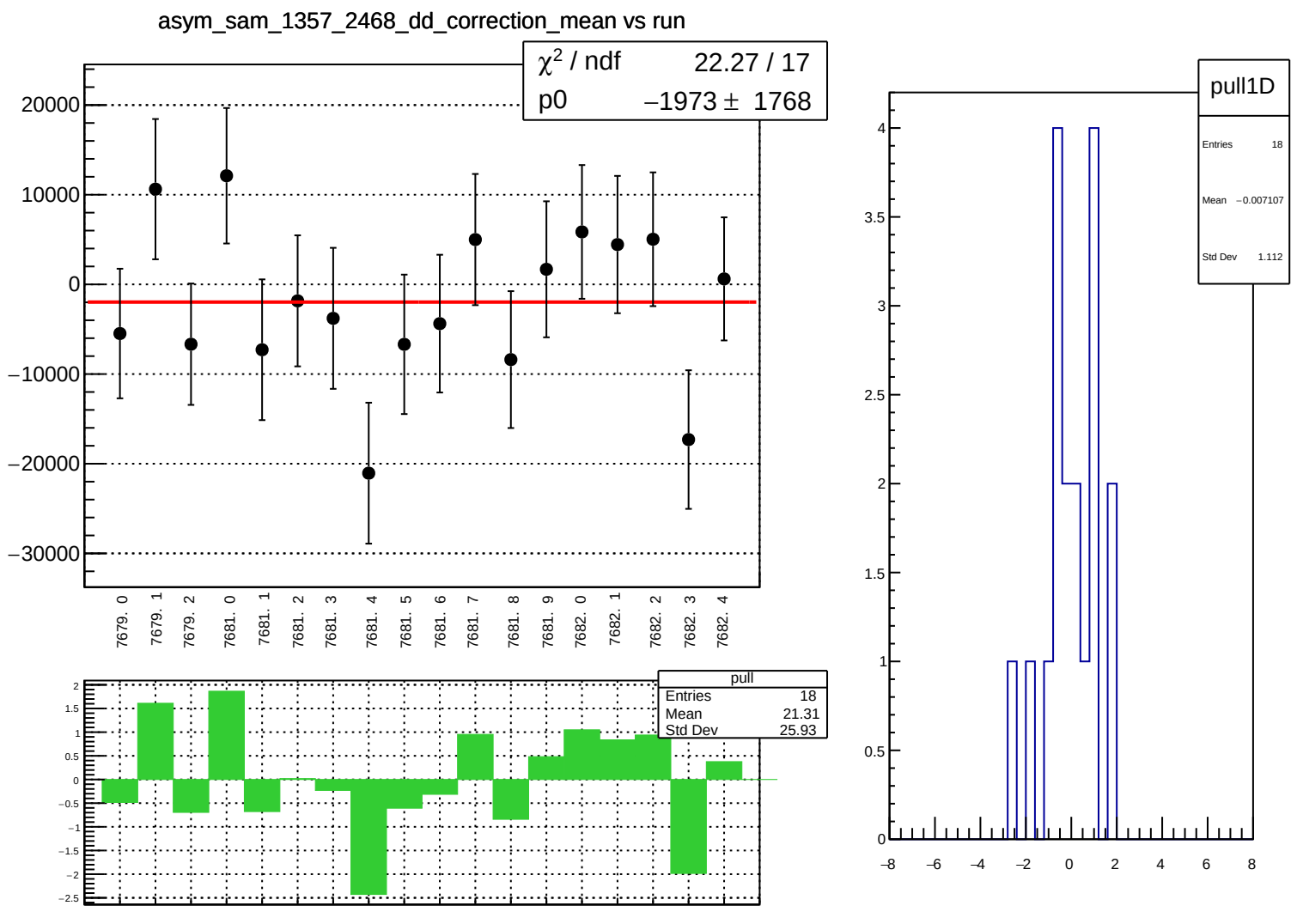

asym_sam_2468_avg_correction_rms vs run
χ² / ndf 243.6 / 17
p0 2621 ± 4.547
2750
2700
2650
2600
2550
2500
2450
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

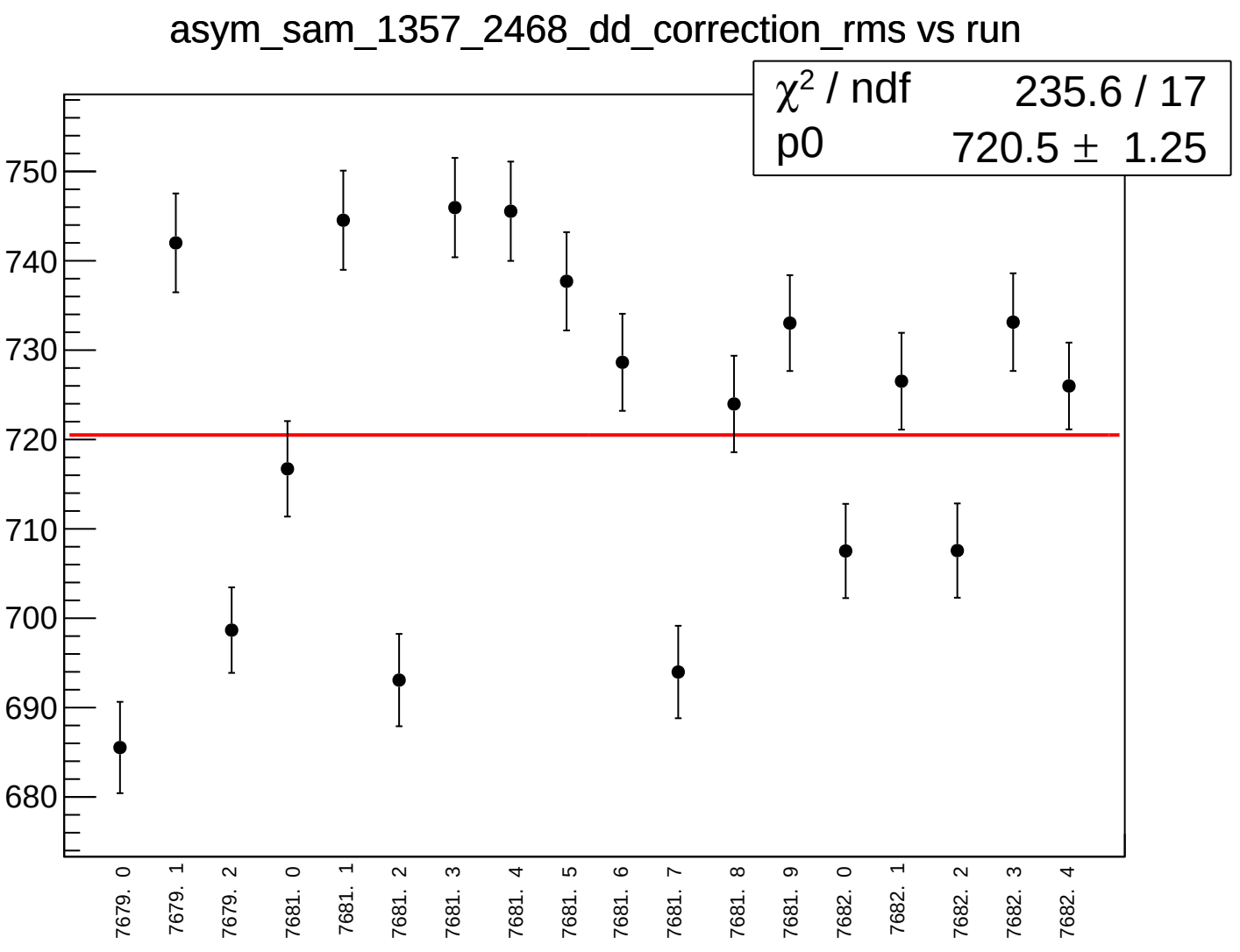

asym_sam_2468_avg_mean vs run
×10^3
χ^2 / ndf 23.43 / 17
p0 −7456 ± 6477
80
60
40
20
0
−20
−40
−60
−80
−100
−120
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 32.99
Std Dev 35.17
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 18
Mean −0.004887
Std Dev 1.141
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

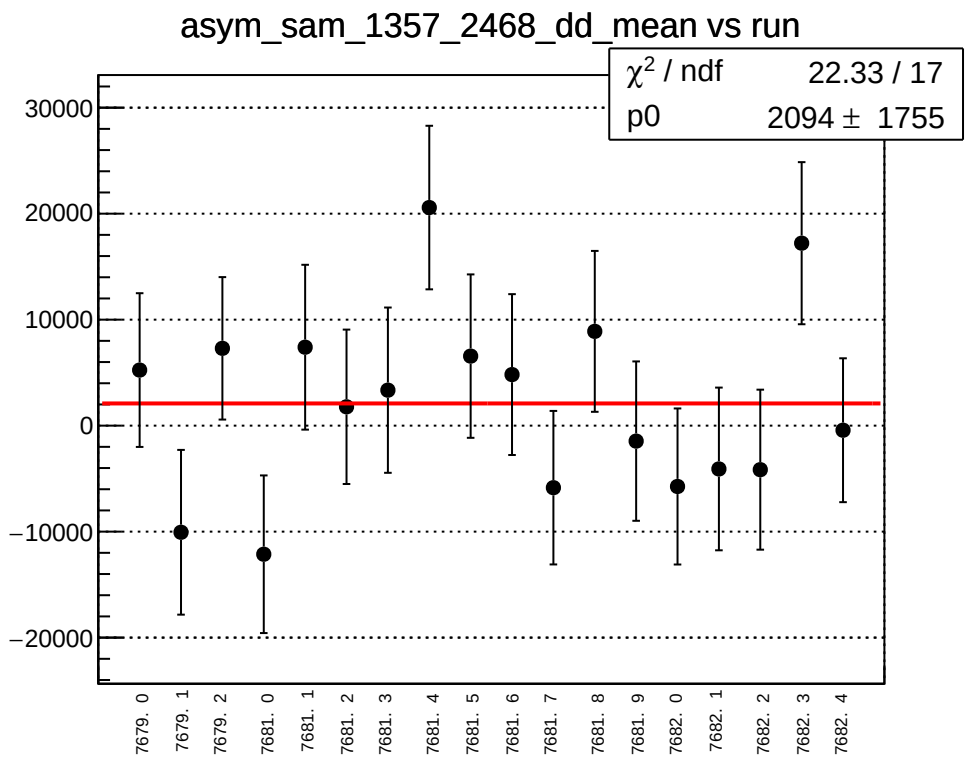

asym_sam_2468_avg_rms vs run
χ² / ndf 213.4 / 17
p0 2639 ± 4.58
2750
2700
2650
2600
2550
2500
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

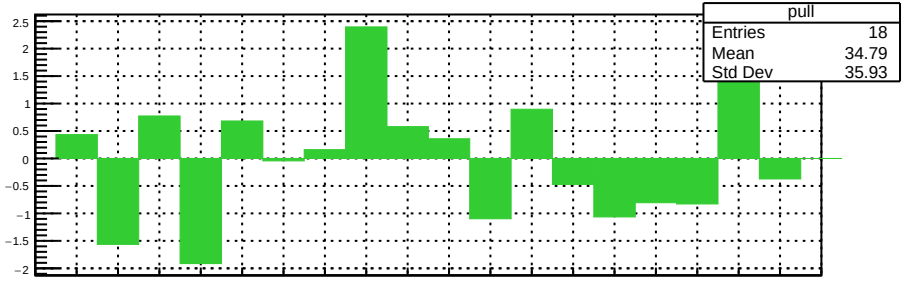

dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 11.82 / 17
p0 140.6 ± 107
2000
1500
1000
500
0
−500
−1000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −35.43
Std Dev 40.63
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 18
Mean 0.01394
Std Dev 0.8103
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

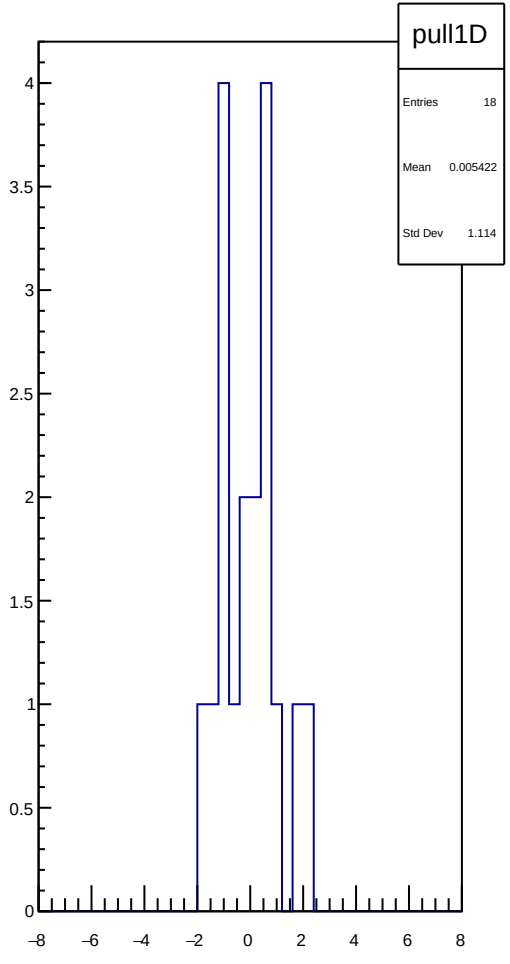

dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 3457 / 17
p0 43.4 ± 0.07567
65
60
55
50
45
40
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

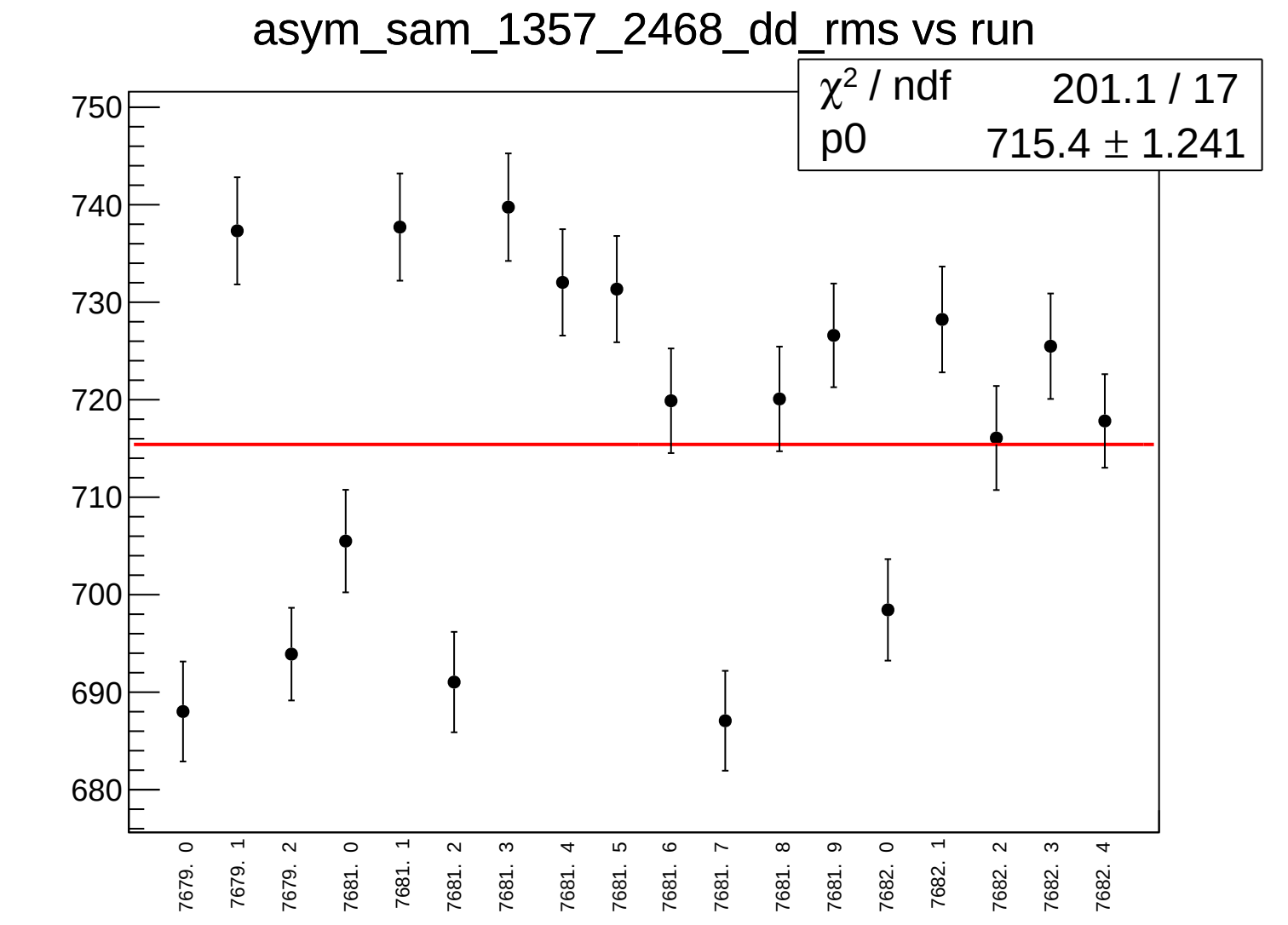

asym_sam_1357_2468_dd_correction_mean vs run
χ² / ndf 22.27 / 17
p0 −1973 ± 1768
20000
10000
0
−10000
−20000
−30000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 21.31
Std Dev 25.93
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 18
Mean −0.007107
Std Dev 1.112
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

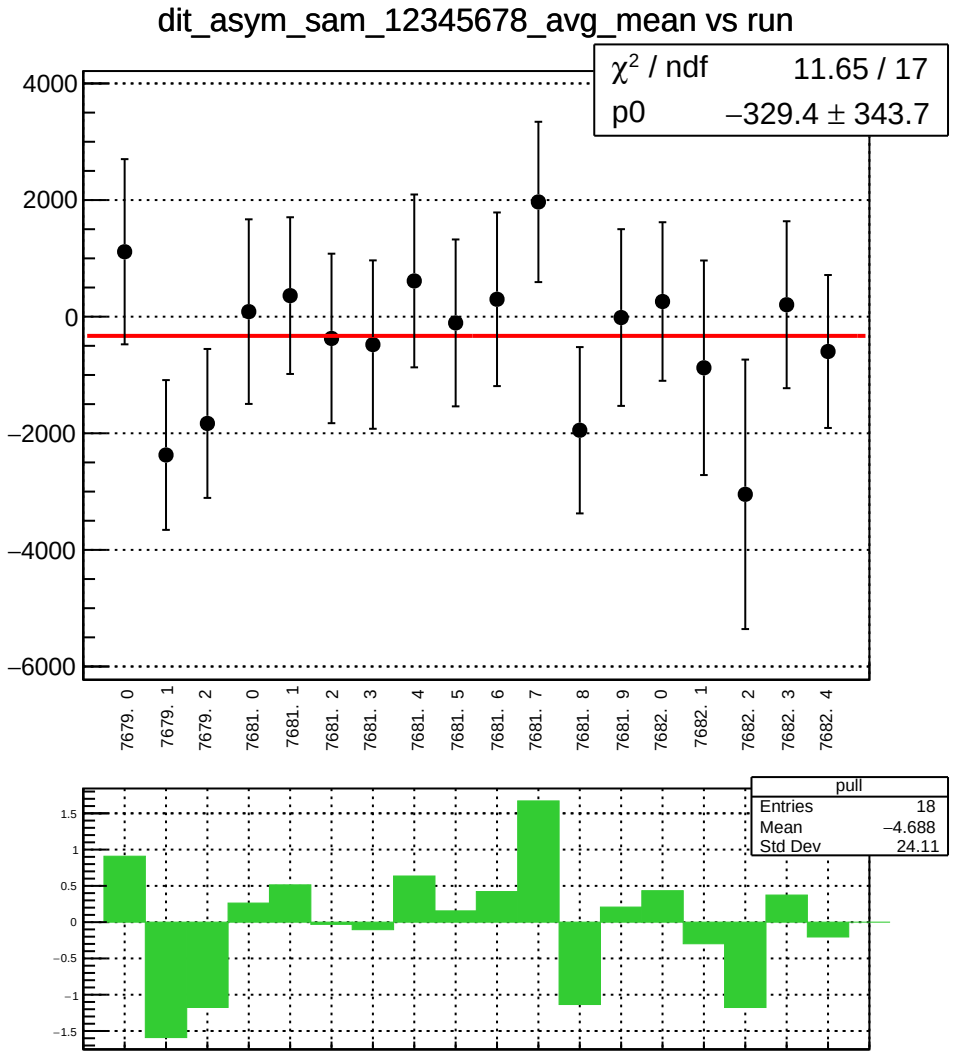

asym_sam_1357_2468_dd_correction_rms vs run
χ² / ndf 235.6 / 17
p0 720.5 ± 1.25
750
740
730
720
710
700
690
680
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

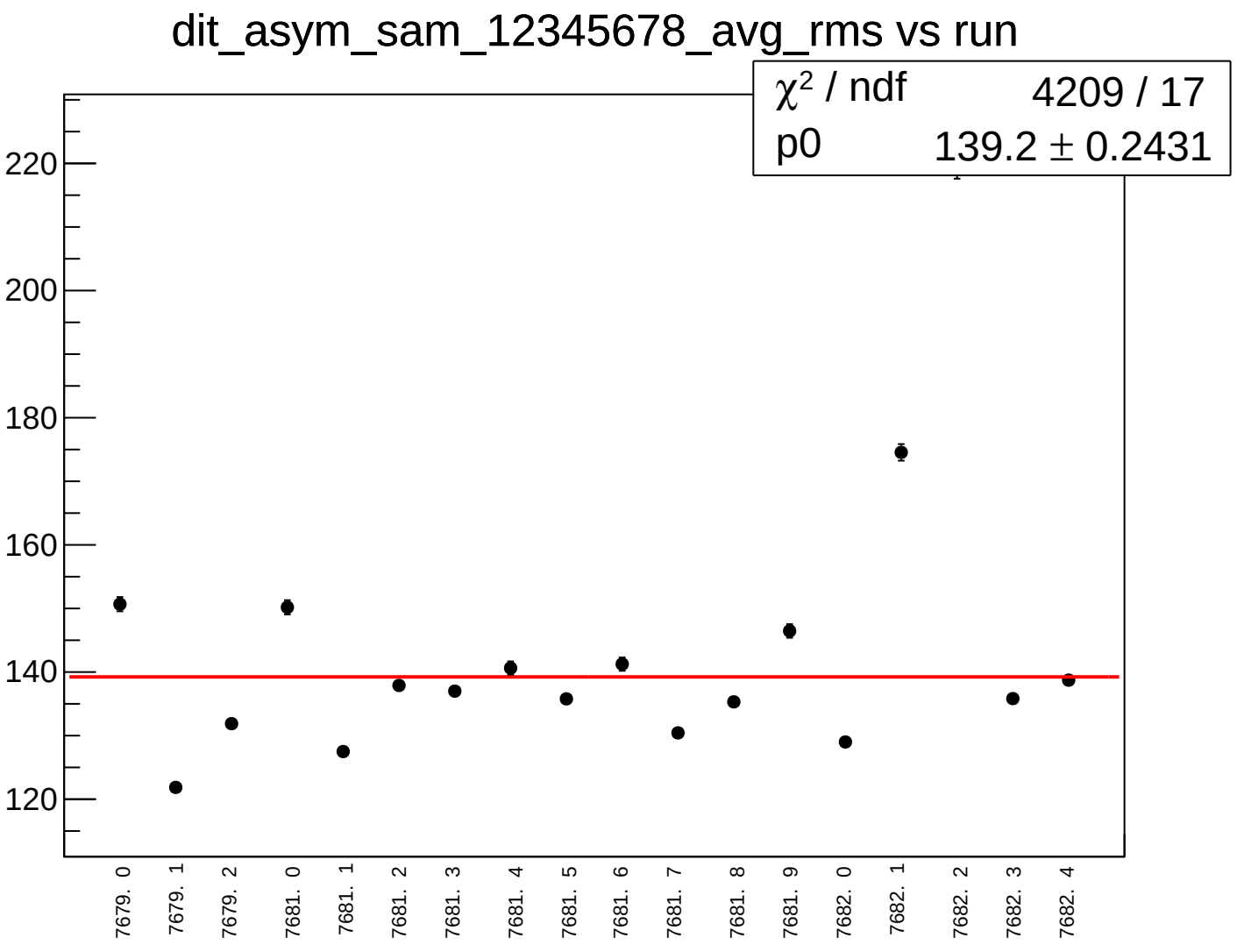

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 22.33 / 17
p0 2094 ± 1755
30000
20000
10000
0
−10000
−20000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

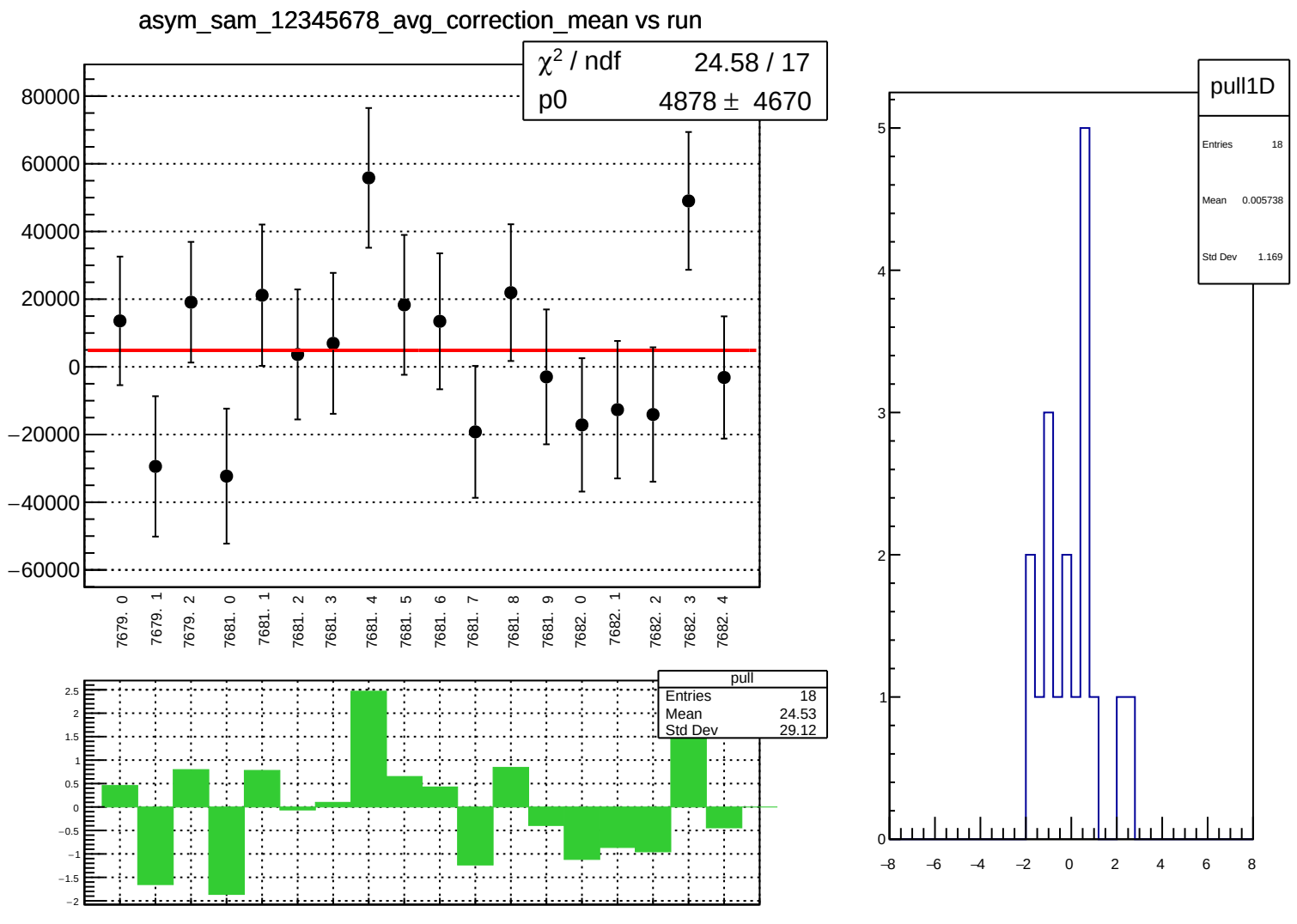

pull
Entries 18
Mean 34.79
Std Dev 35.93
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

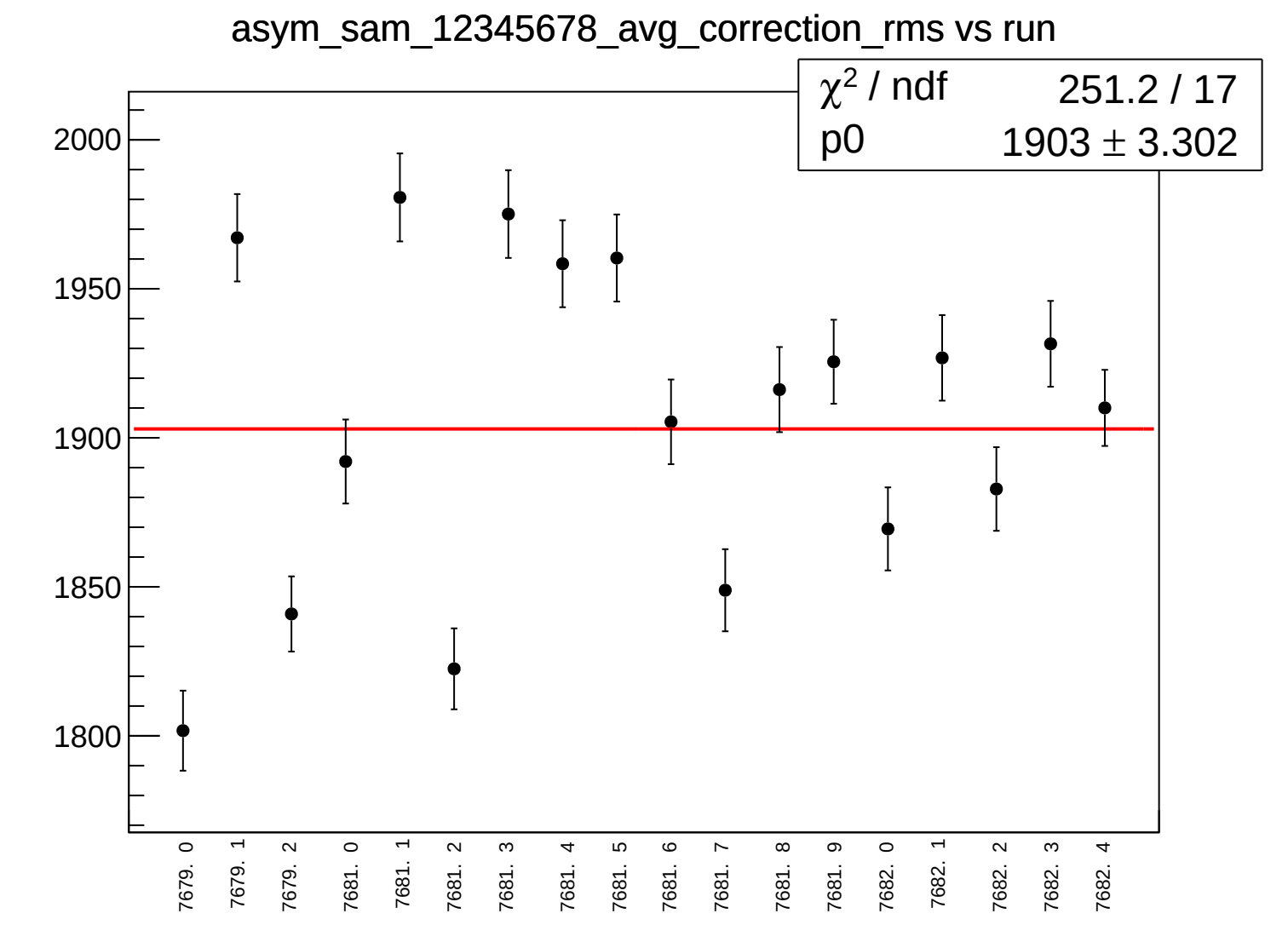

pull1D
Entries 18
Mean 0.005422
Std Dev 1.114
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

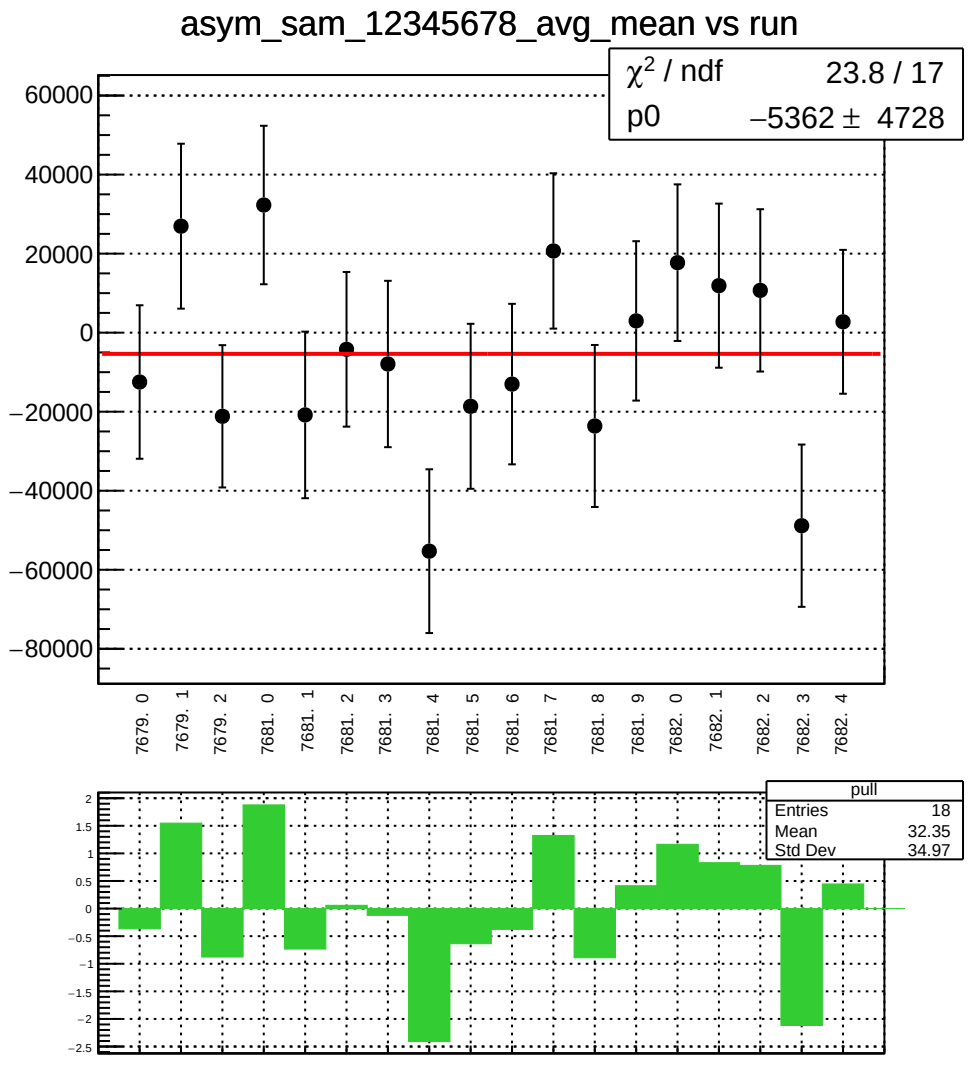

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 201.1 / 17
p0 715.4 ± 1.241
750
740
730
720
710
700
690
680
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

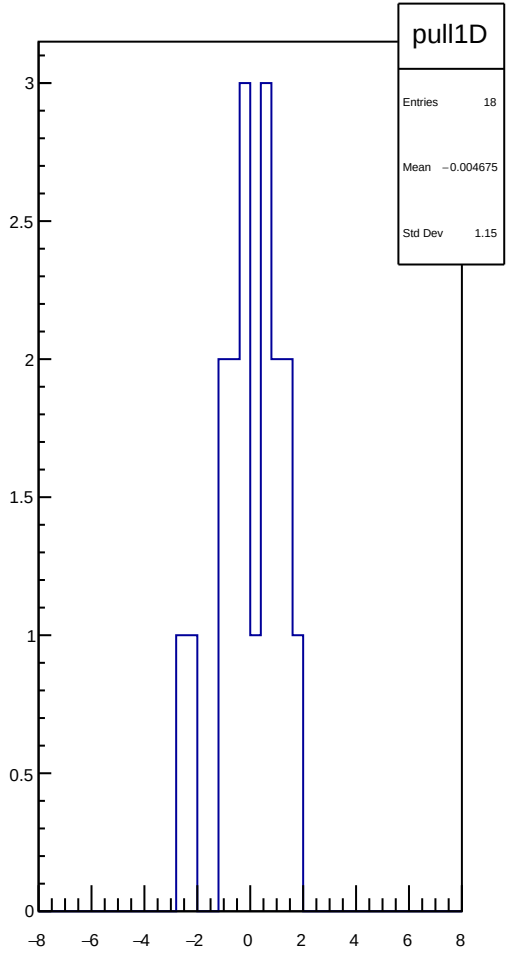

dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 11.65 / 17
p0 −329.4 ± 343.7
4000
2000
0
−2000
−4000
−6000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −4.688
Std Dev 24.11
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 18
Mean −0.007158
Std Dev 0.8045
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

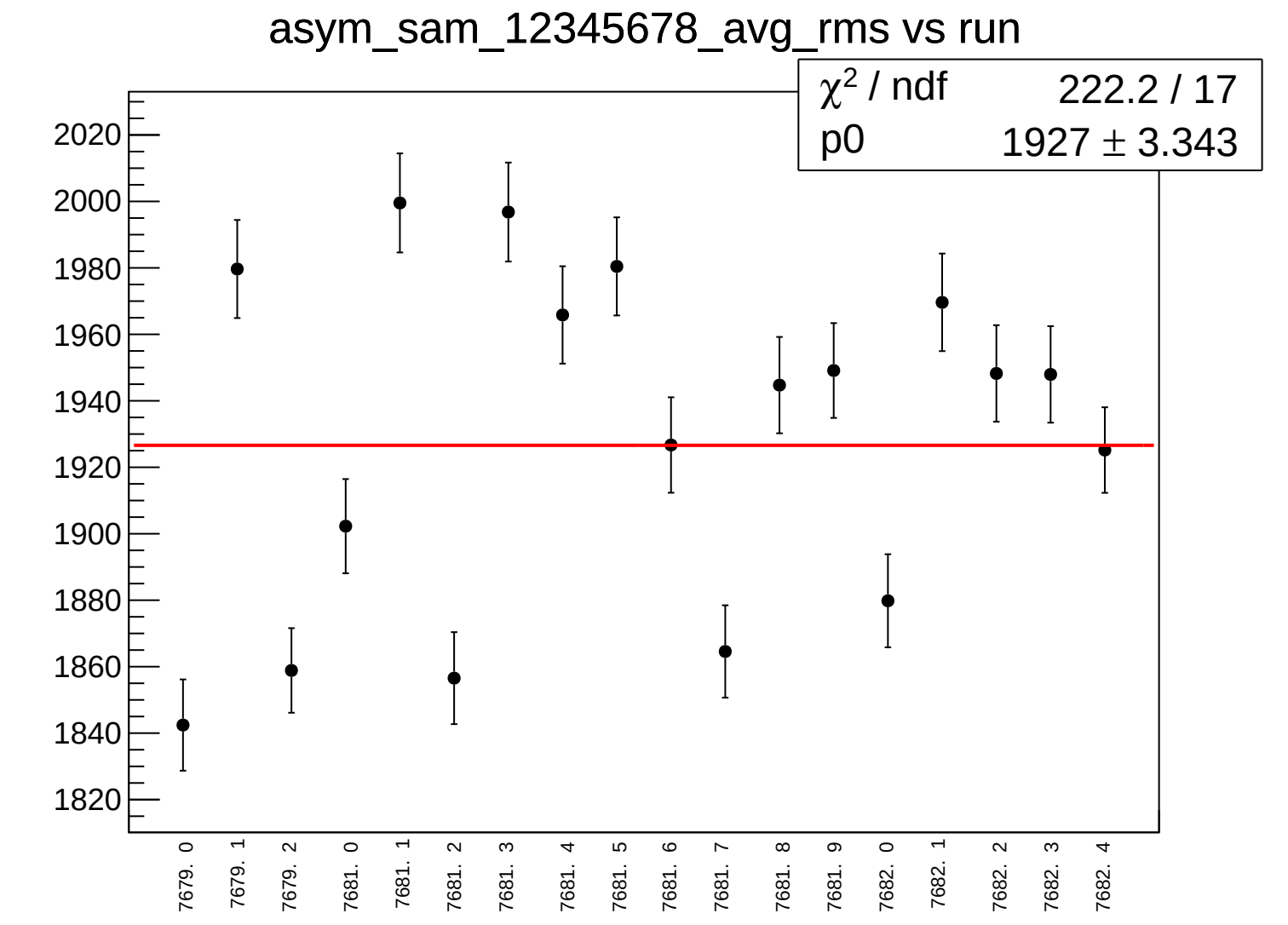

dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 4209 / 17
p0 139.2 ± 0.2431
220
200
180
160
140
120
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

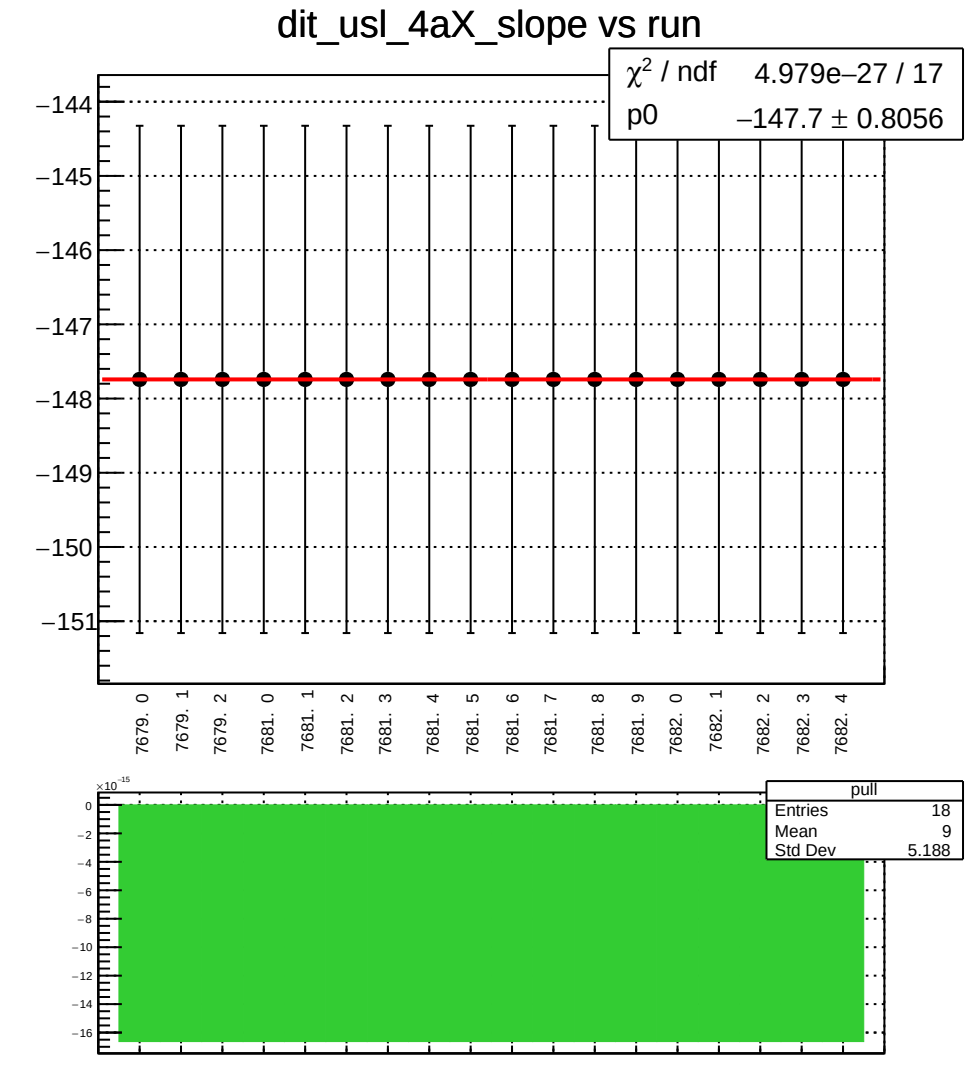

asym_sam_12345678_avg_correction_mean vs run
χ² / ndf 24.58 / 17
p0 4878 ± 4670
80000
60000
40000
20000
0
−20000
−40000
−60000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 24.53
Std Dev 29.12
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 18
Mean 0.005738
Std Dev 1.169
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

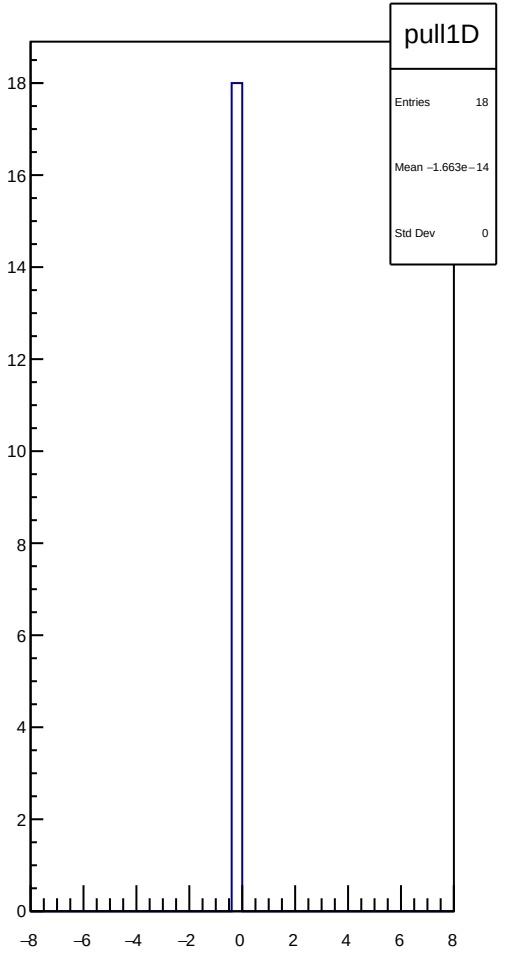

asym_sam_12345678_avg_correction_rms vs run
χ² / ndf 251.2 / 17
p0 1903 ± 3.302
2000
1950
1900
1850
1800
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

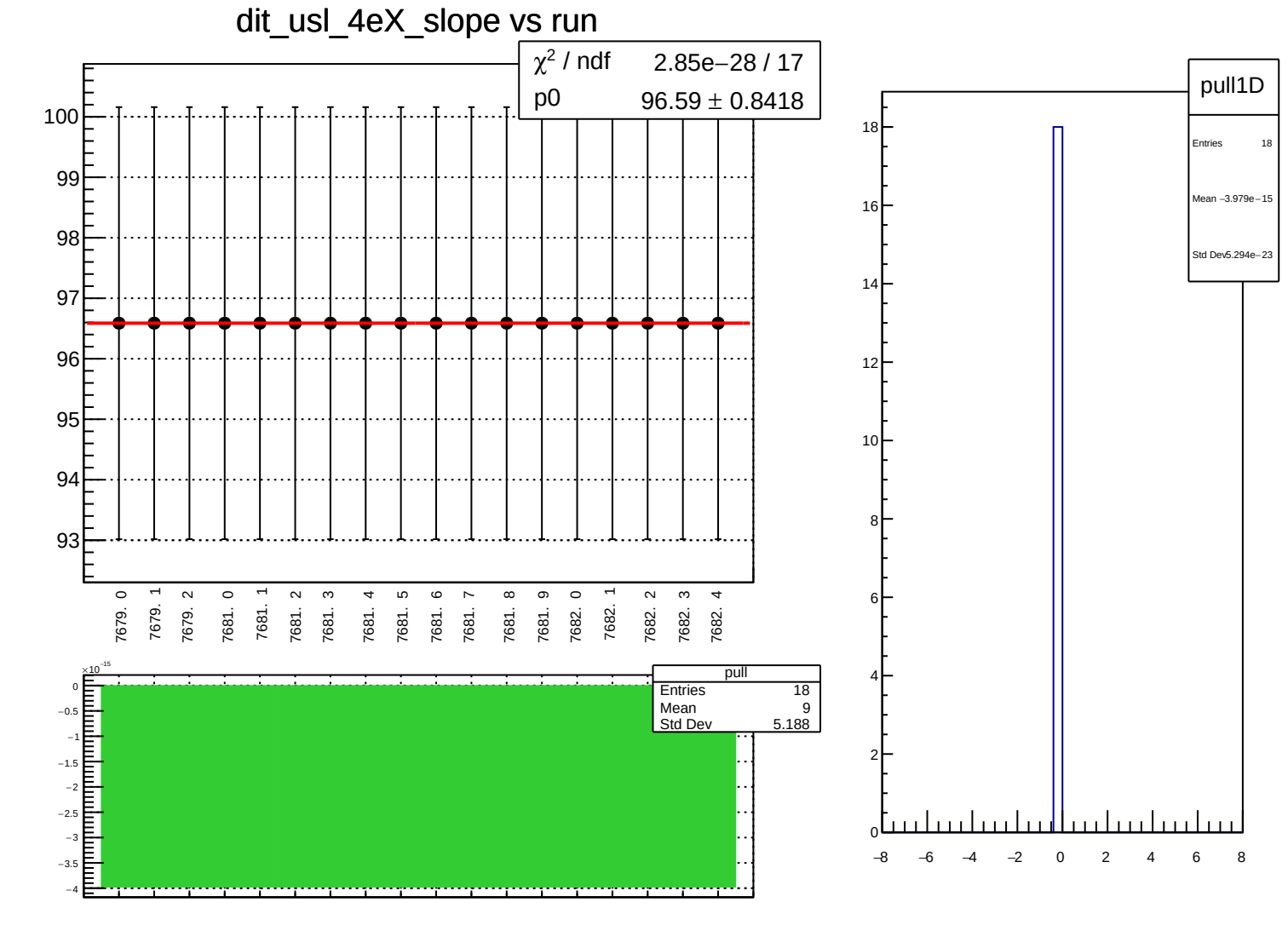

asym_sam_12345678_avg_mean vs run
χ² / ndf 23.8 / 17
p0 −5362 ± 4728
60000
40000
20000
0
−20000
−40000
−60000
−80000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 32.35
Std Dev 34.97
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

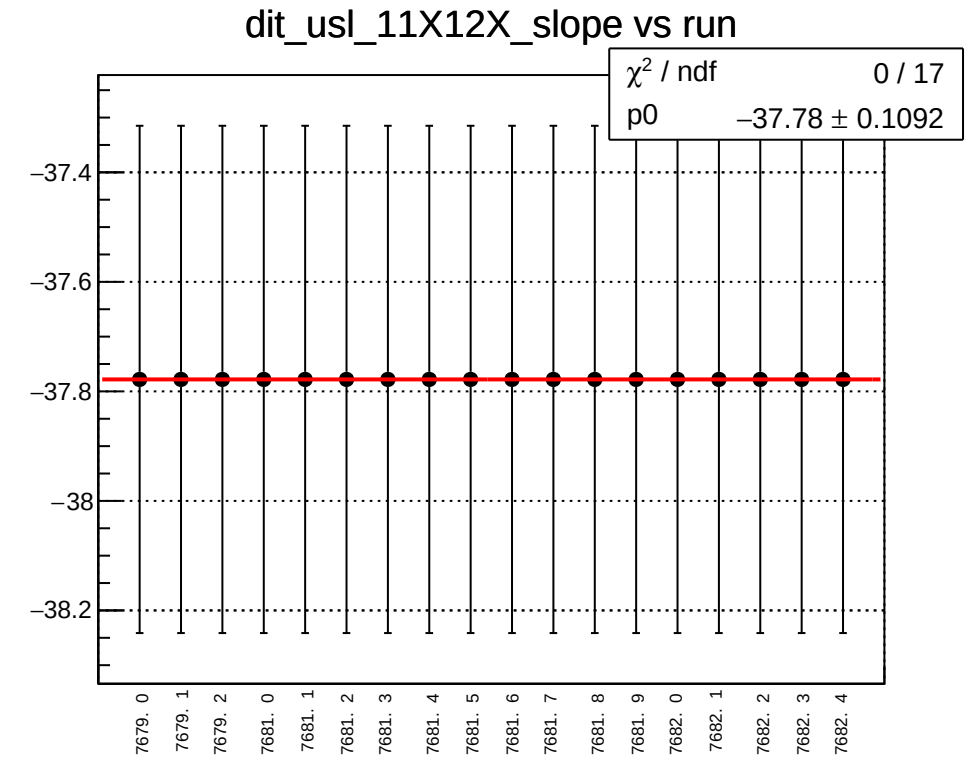

pull1D
Entries 18
Mean −0.004675
Std Dev 1.15
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

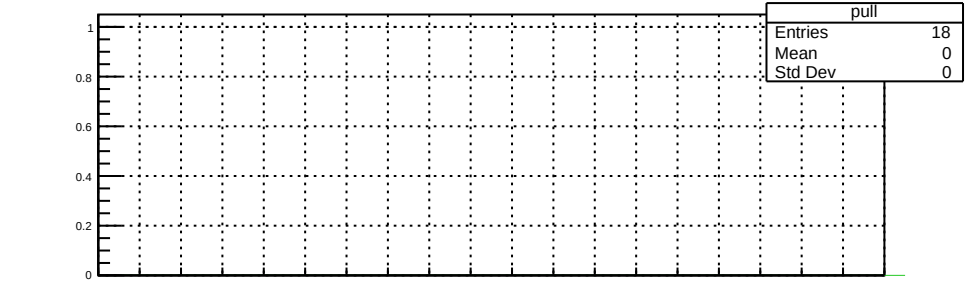

asym_sam_12345678_avg_rms vs run
χ² / ndf 222.2 / 17
p0 1927 ± 3.343
2020
2000
1980
1960
1940
1920
1900
1880
1860
1840
1820
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

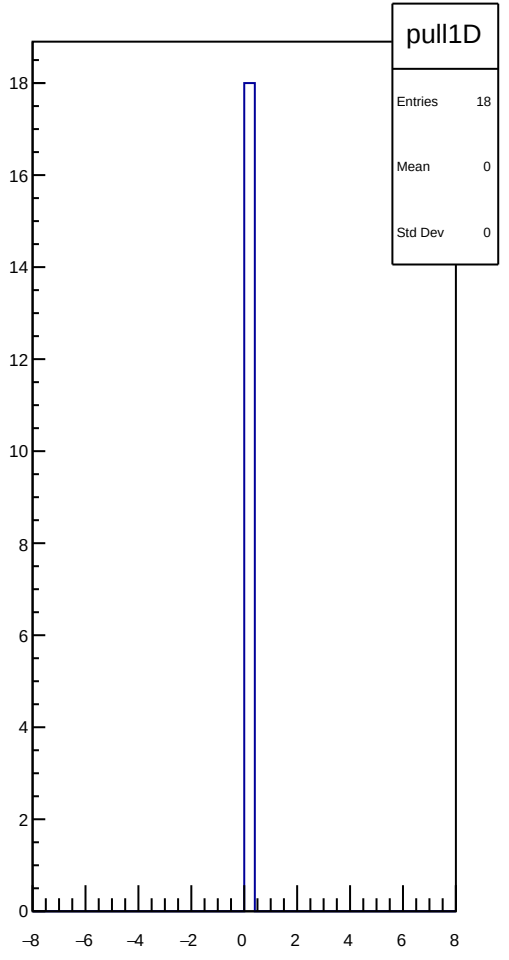

dit_usl_4aX_slope vs run
χ² / ndf 4.979e−27 / 17
p0 −147.7 ± 0.8056
−144
−145
−146
−147
−148
−149
−150
−151
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
×10⁻¹⁵
pull
Entries 18
Mean 9
Std Dev 5.188

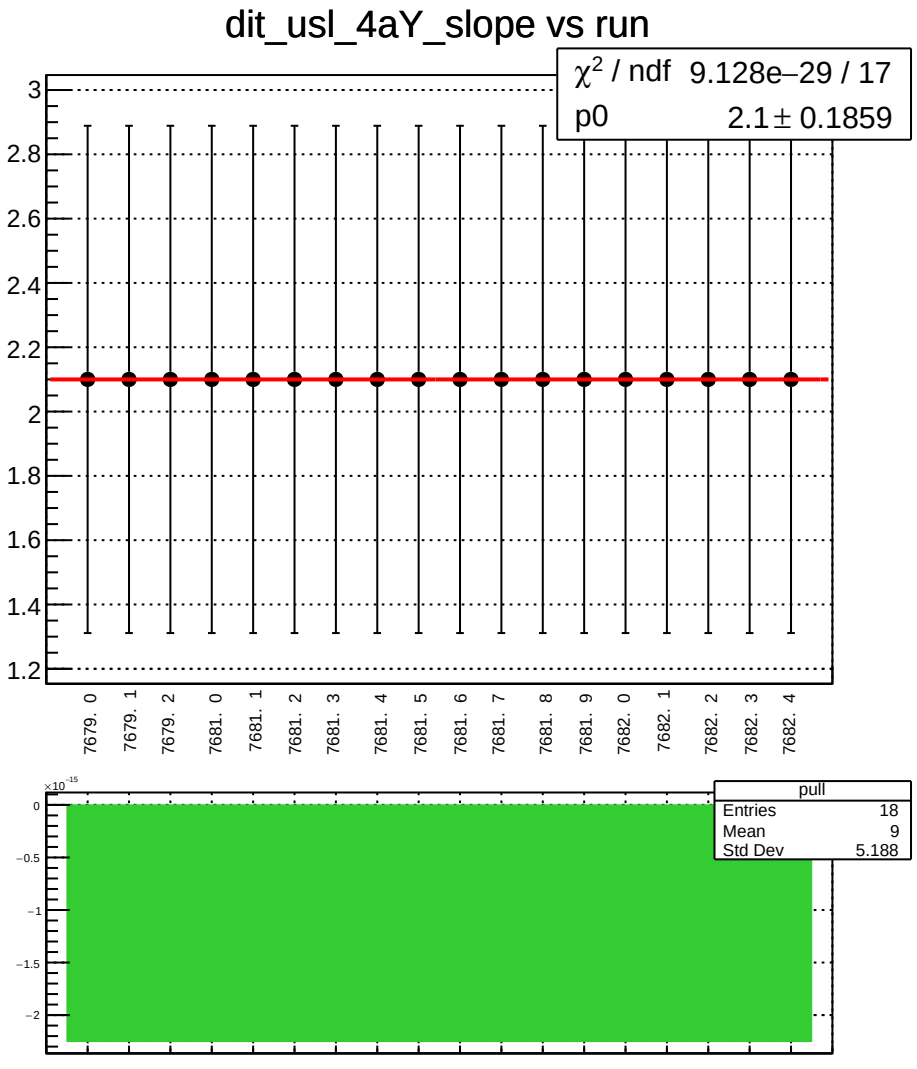

pull1D
Entries 18
Mean −1.663e−14
Std Dev 0

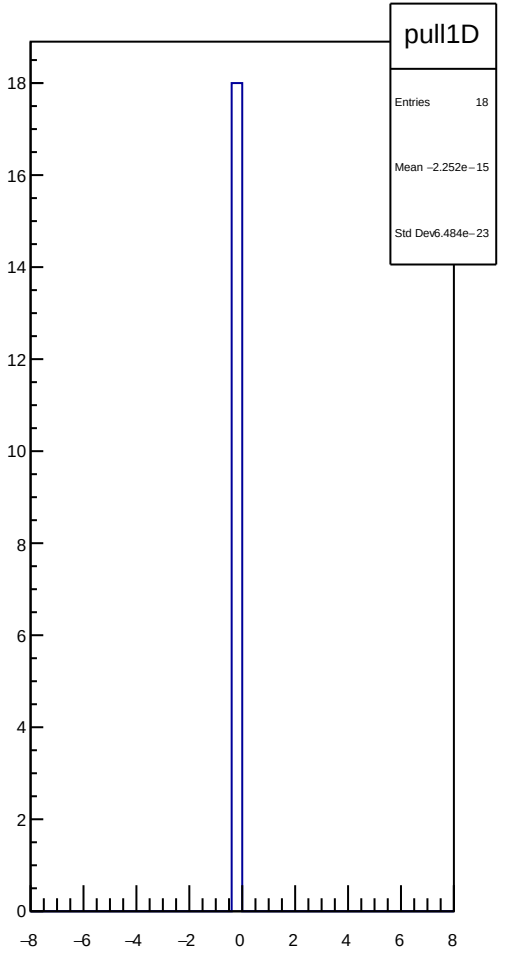

dit_usl_4eX_slope vs run
χ² / ndf 2.85e−28 / 17
p0 96.59 ± 0.8418
100
99
98
97
96
95
94
93
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
×10⁻¹⁵
0
−0.5
−1
−1.5
−2
−2.5
−3
−3.5
−4
pull
Entries 18
Mean 9
Std Dev 5.188
pull1D
Entries 18
Mean −3.979e−15
Std Dev5.294e−23
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

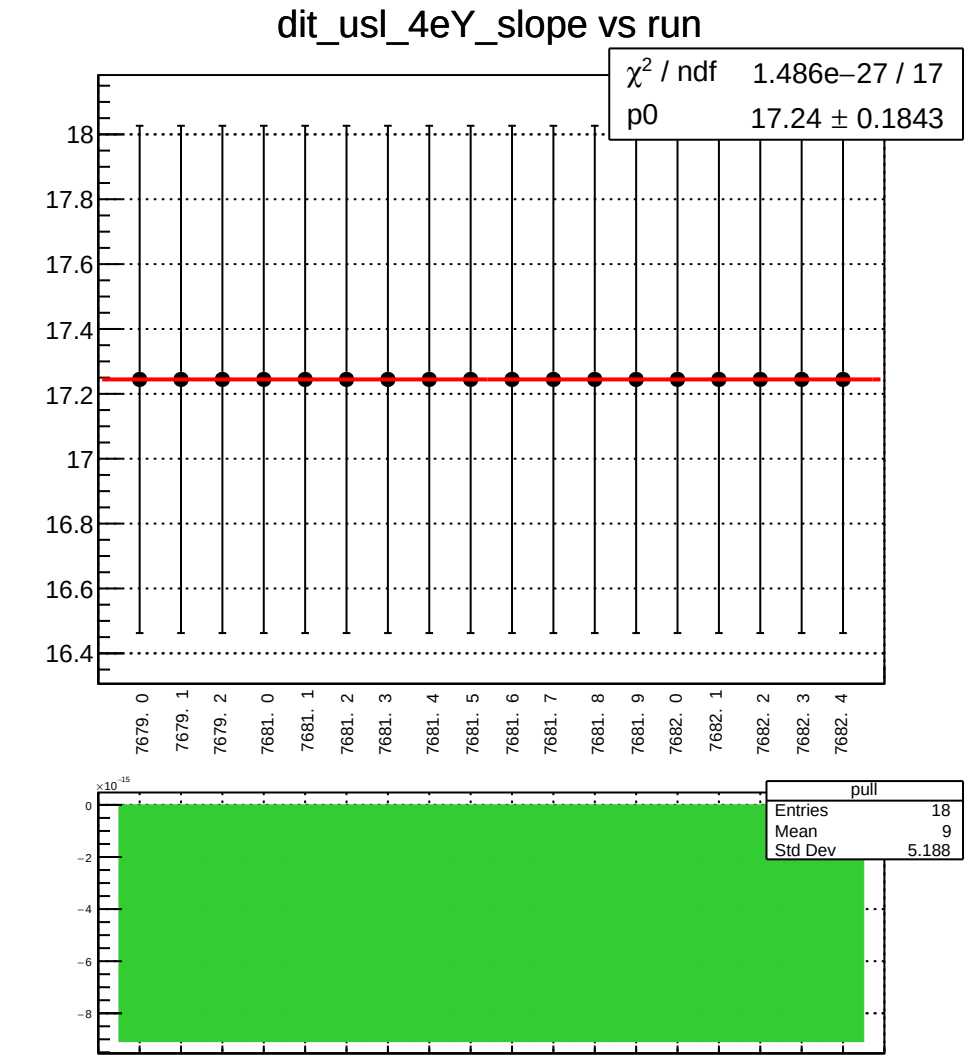

dit_usl_11X12X_slope vs run
χ² / ndf 0 / 17
p0 −37.78 ± 0.1092
−37.4
−37.6
−37.8
−38
−38.2
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

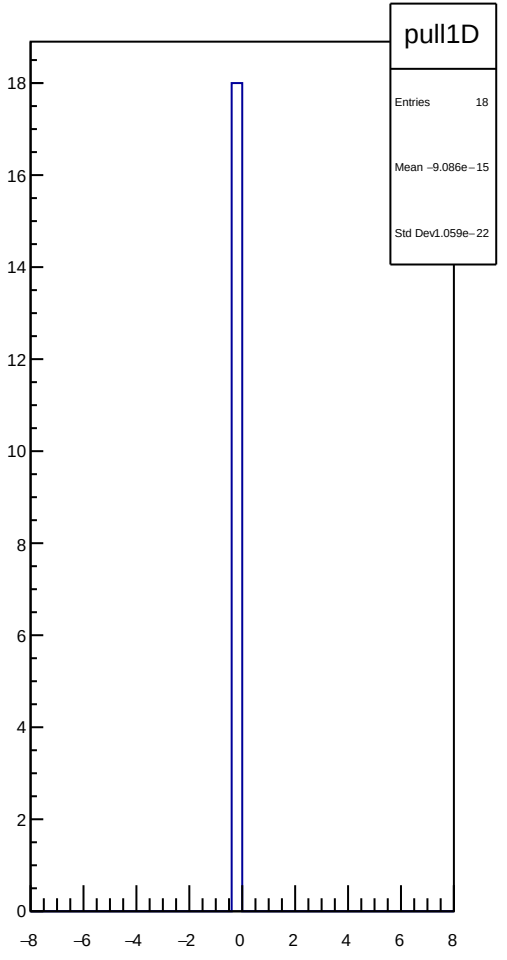

pull
Entries 18
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

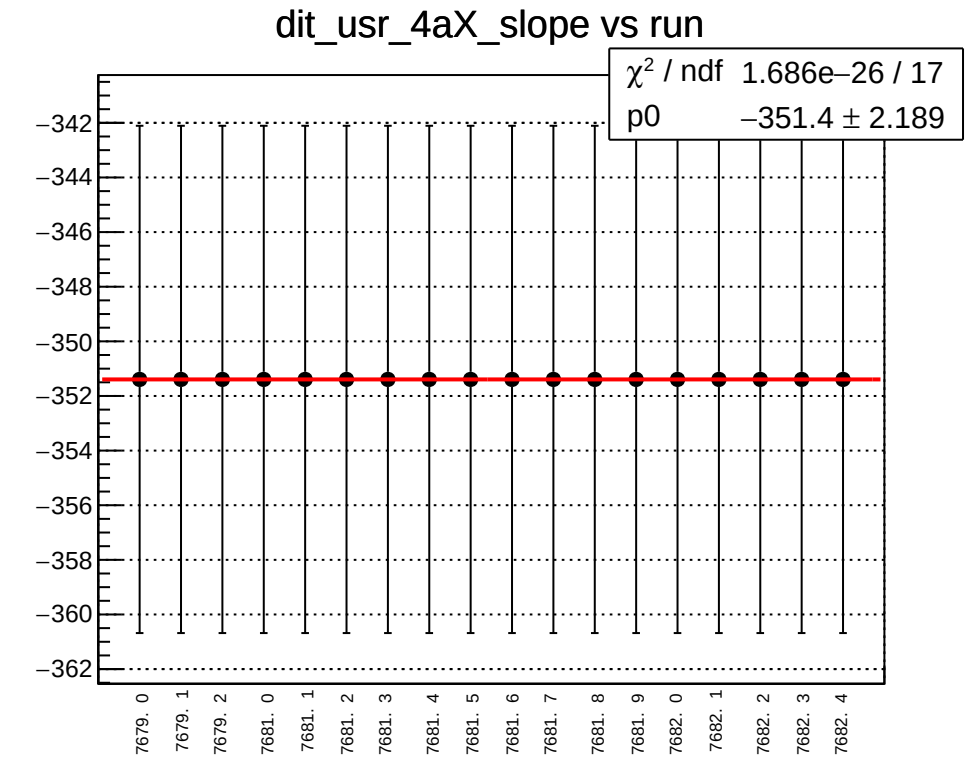

pull1D
Entries 18
Mean 0
Std Dev 0
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

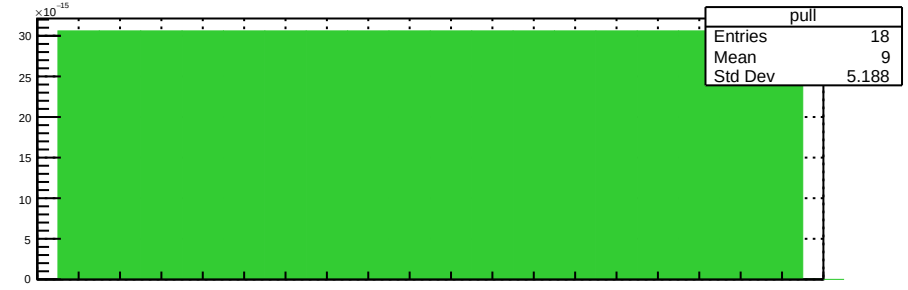

dit_usl_4aY_slope vs run
χ² / ndf 9.128e−29 / 17
p0 2.1 ± 0.1859
3
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
×10⁻¹⁵
0
−0.5
−1
−1.5
−2
pull
Entries 18
Mean 9
Std Dev 5.188

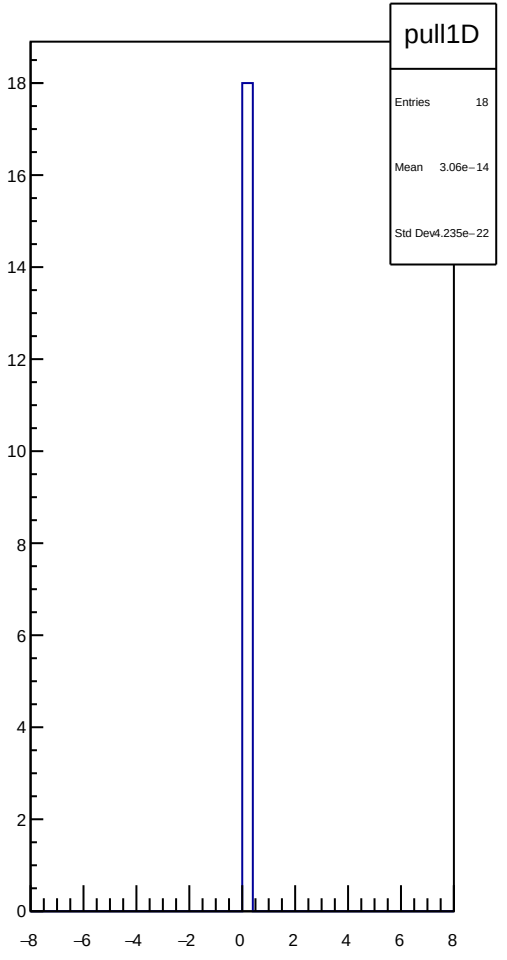

pull1D
Entries 18
Mean −2.252e−15
Std Dev6.484e−23
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

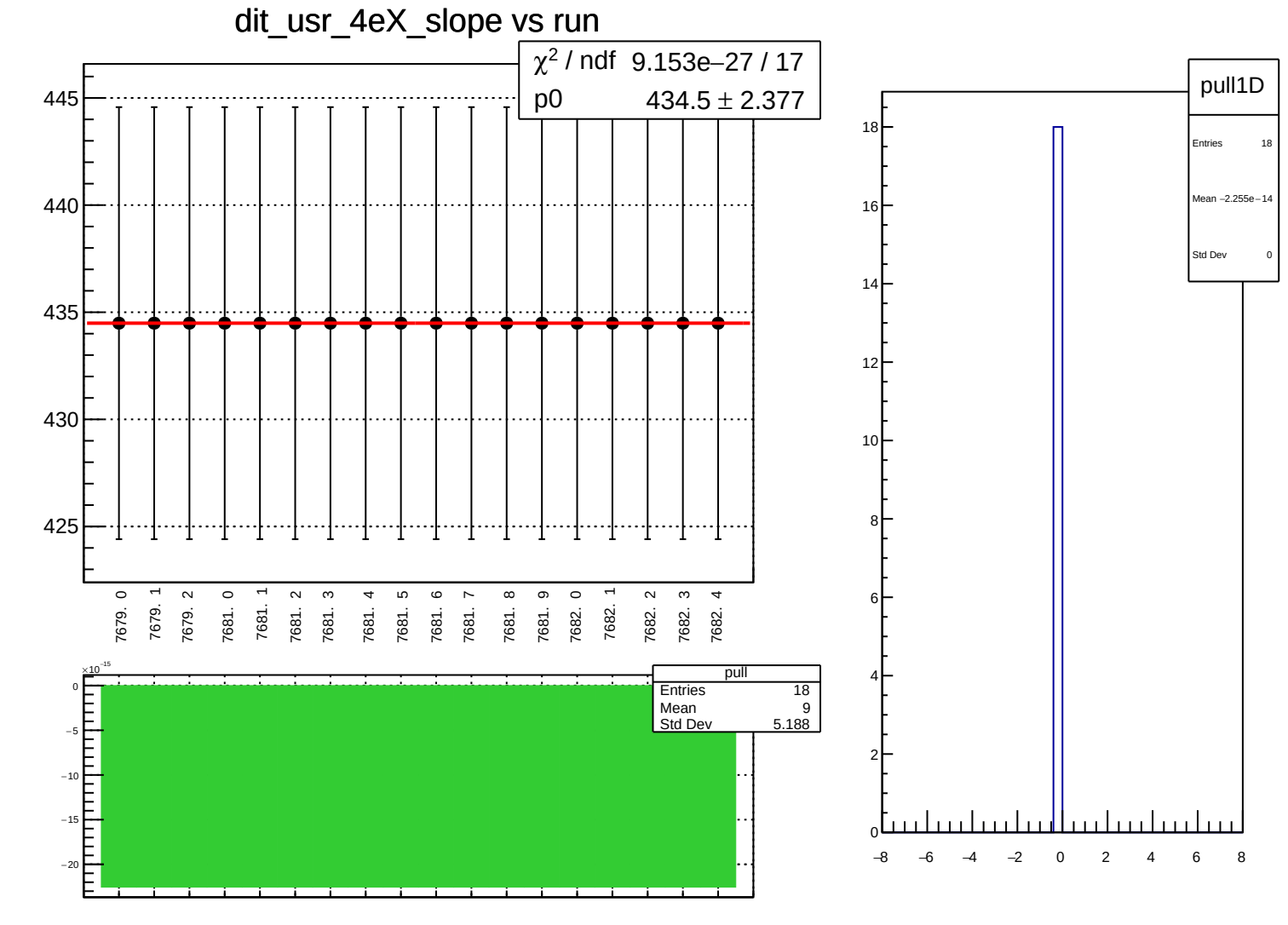

dit_usl_4eY_slope vs run
χ² / ndf 1.486e−27 / 17
p0 17.24 ± 0.1843
18
17.8
17.6
17.4
17.2
17
16.8
16.6
16.4
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
×10⁻¹⁵
0
−2
−4
−6
−8
pull
Entries 18
Mean 9
Std Dev 5.188

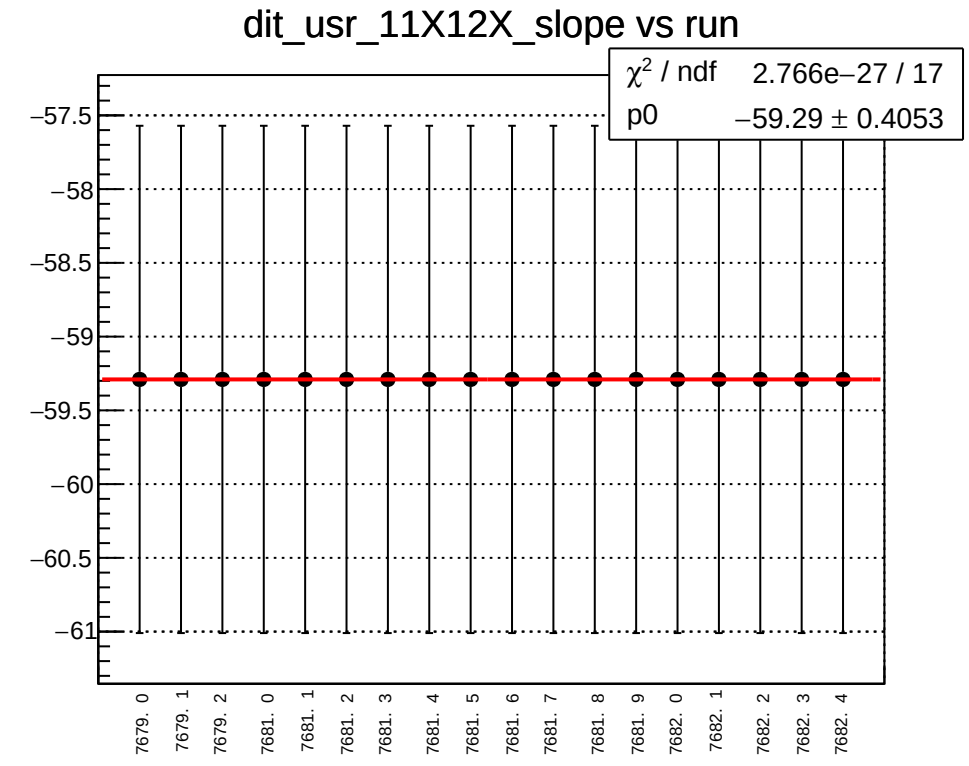

pull1D
Entries 18
Mean −9.086e−15
Std Dev1.059e−22
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

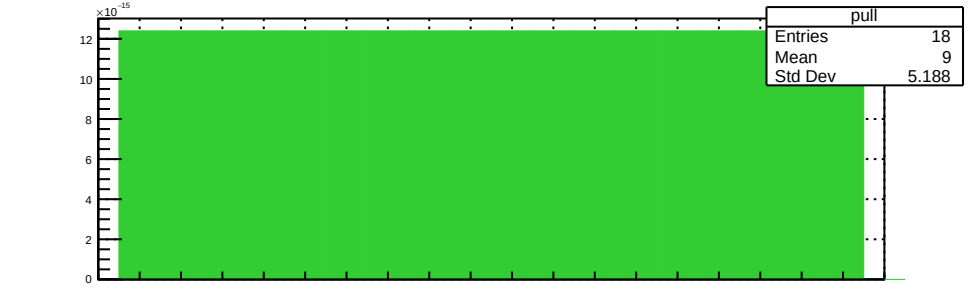

dit_usr_4aX_slope vs run
χ² / ndf 1.686e−26 / 17
p0 −351.4 ± 2.189
−342
−344
−346
−348
−350
−352
−354
−356
−358
−360
−362
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

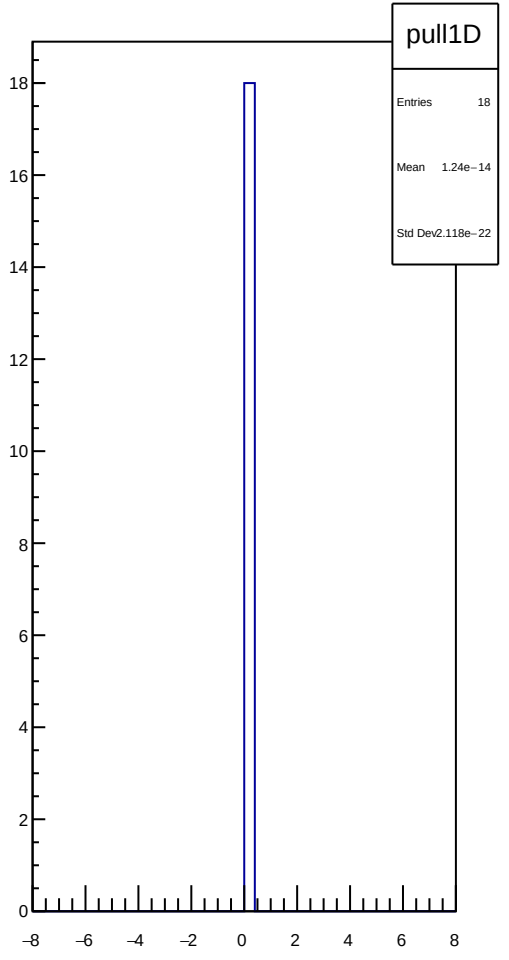

×10⁻¹⁵
30
25
20
15
10
5
0
pull
Entries 18
Mean 9
Std Dev 5.188

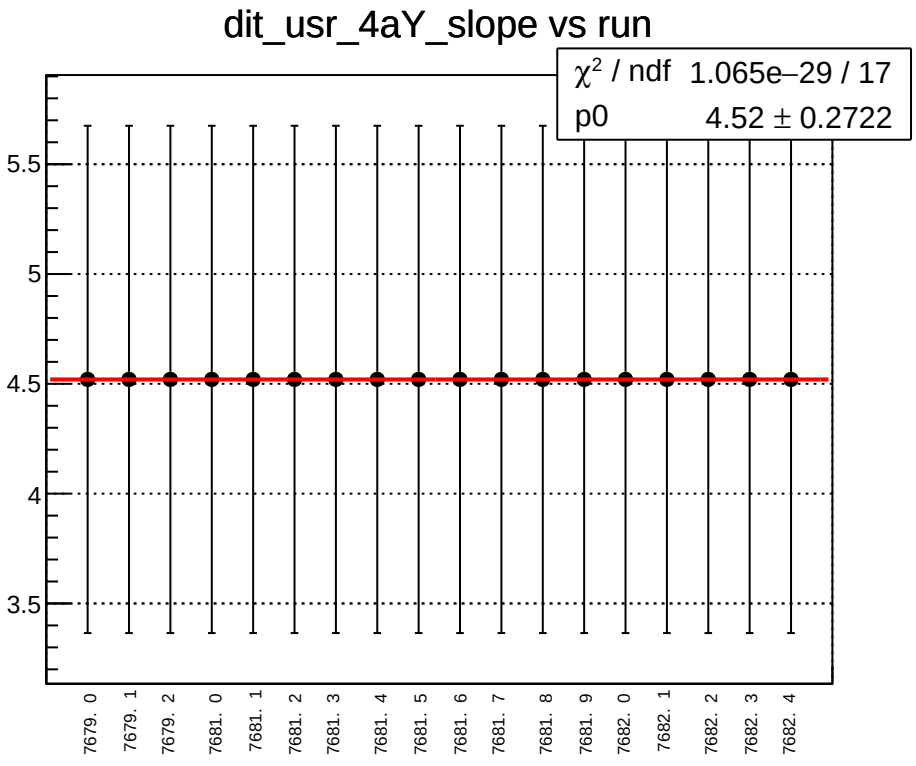

pull1D
Entries 18
Mean 3.06e−14
Std Dev4.235e−22
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

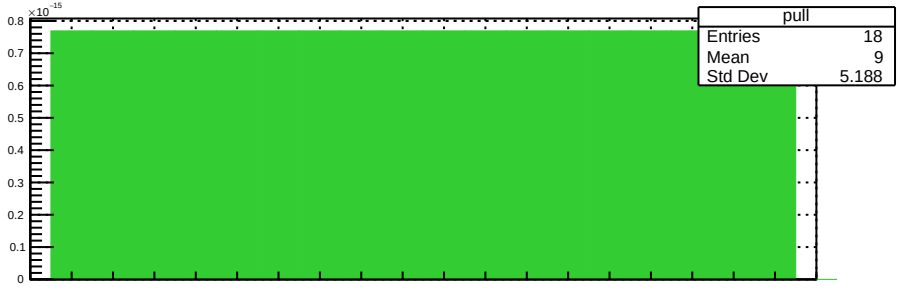

dit_usr_4eX_slope vs run
χ^2 / ndf 9.153e−27 / 17
p0 434.5 ± 2.377
445
440
435
430
425
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
×10⁻¹⁵
0
−5
−10
−15
−20
pull
Entries 18
Mean 9
Std Dev 5.188
pull1D
Entries 18
Mean −2.255e−14
Std Dev 0
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

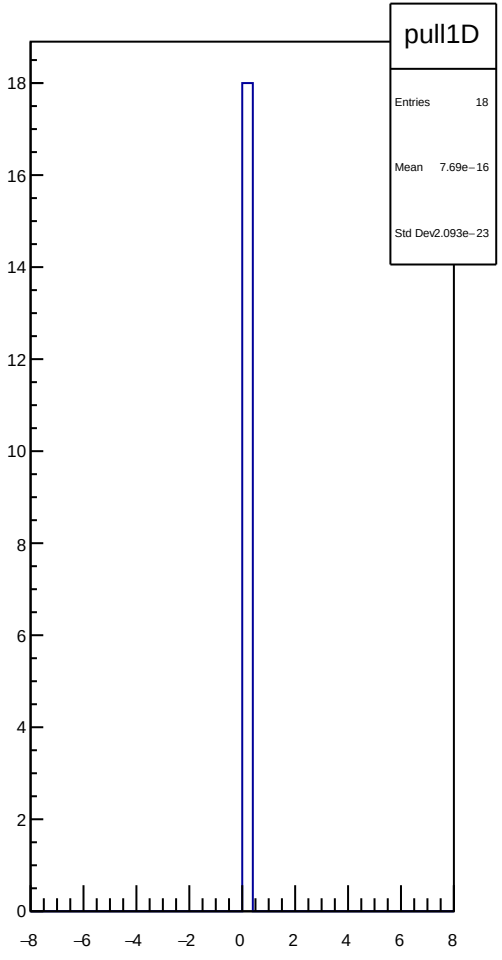

dit_usr_11X12X_slope vs run
χ² / ndf 2.766e−27 / 17
p0 −59.29 ± 0.4053
−57.5
−58
−58.5
−59
−59.5
−60
−60.5
−61
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

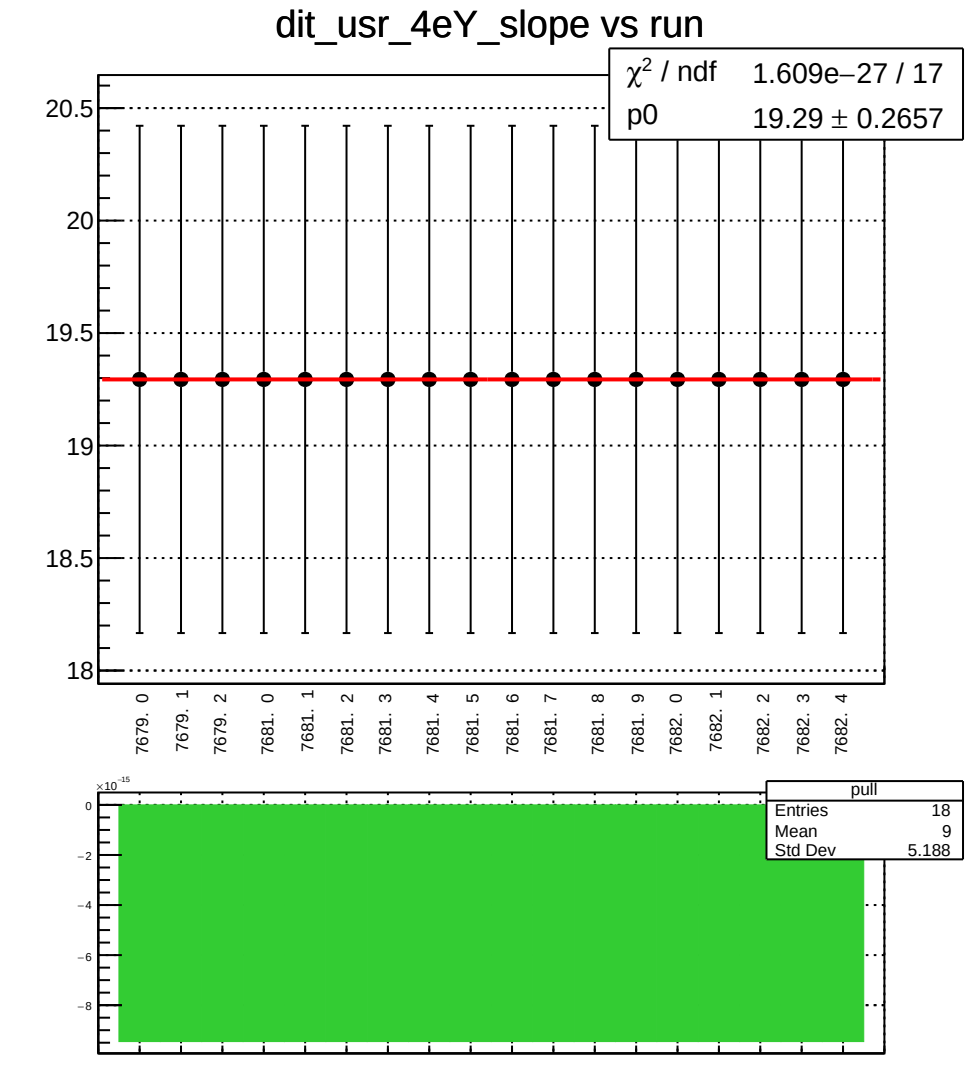

×10⁻¹⁵
pull
Entries 18
Mean 9
Std Dev 5.188

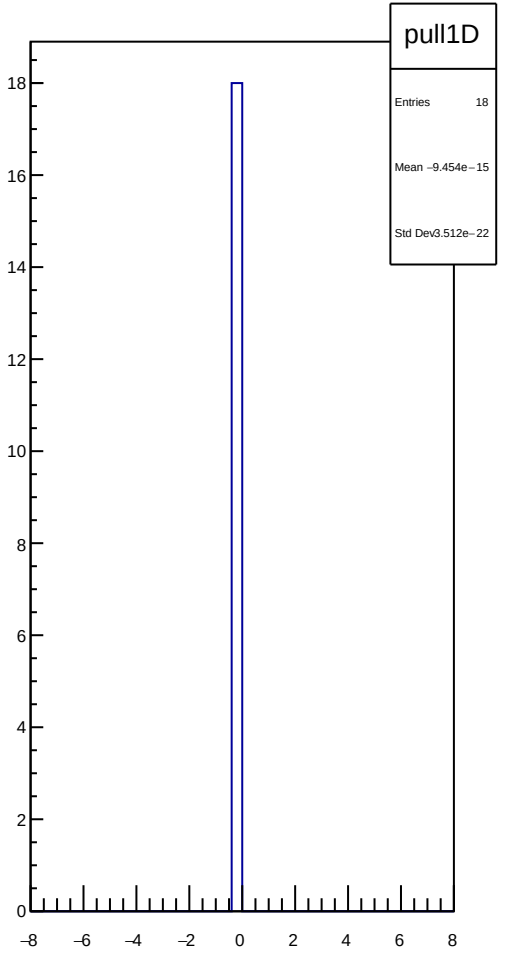

pull1D
Entries 18
Mean 1.24e−14
Std Dev2.118e−22

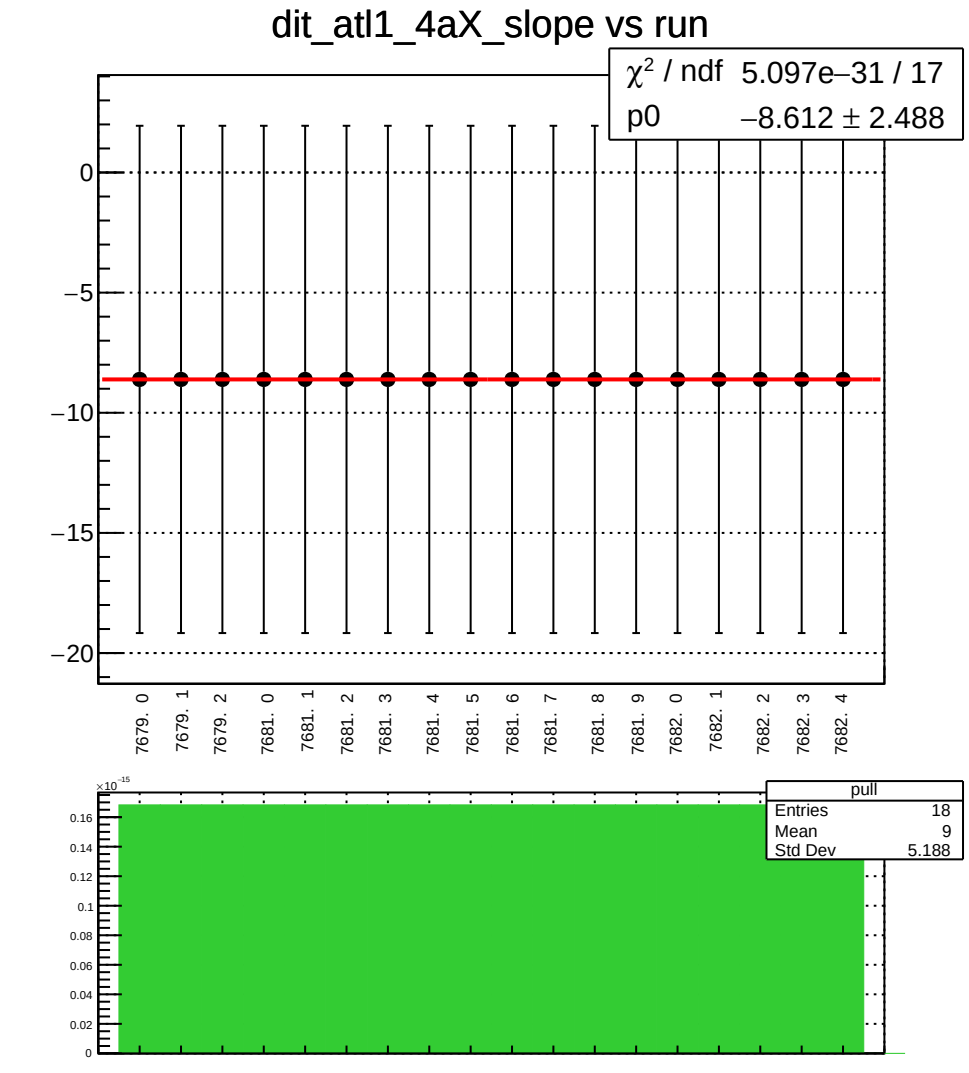

dit_usr_4aY_slope vs run
χ² / ndf 1.065e−29 / 17
p0 4.52 ± 0.2722
5.5
5
4.5
4
3.5
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

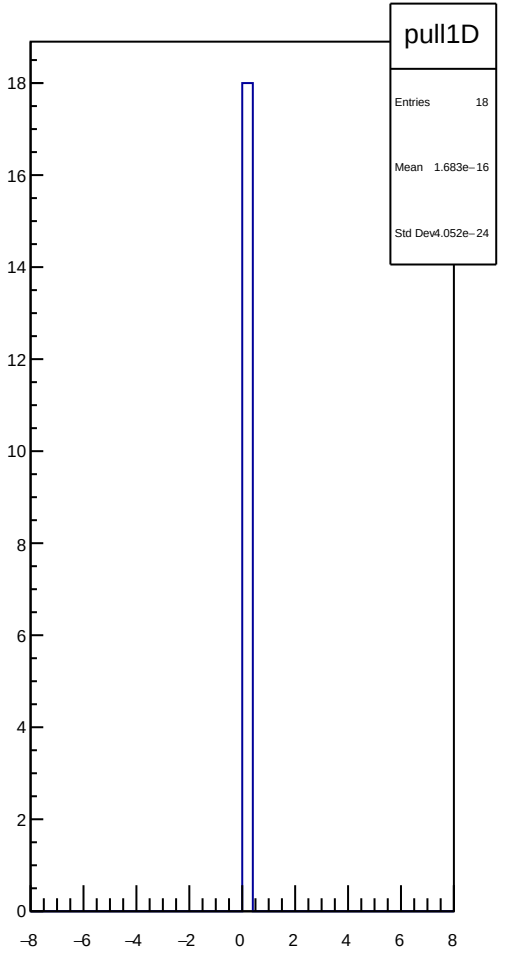

×10⁻¹⁵
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
pull
Entries 18
Mean 9
Std Dev 5.188

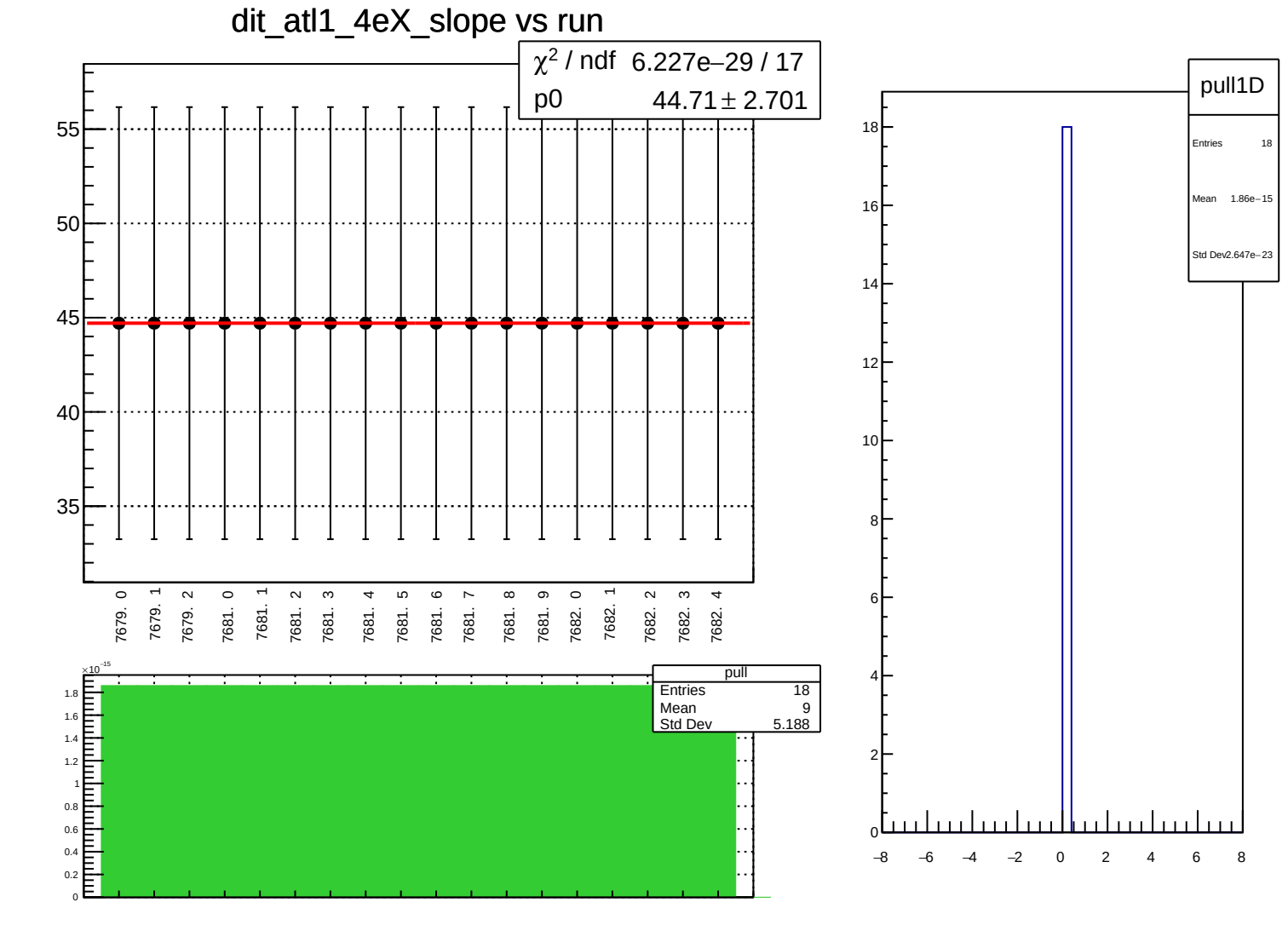

pull1D
Entries 18
Mean 7.69e−16
Std Dev2.093e−23
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

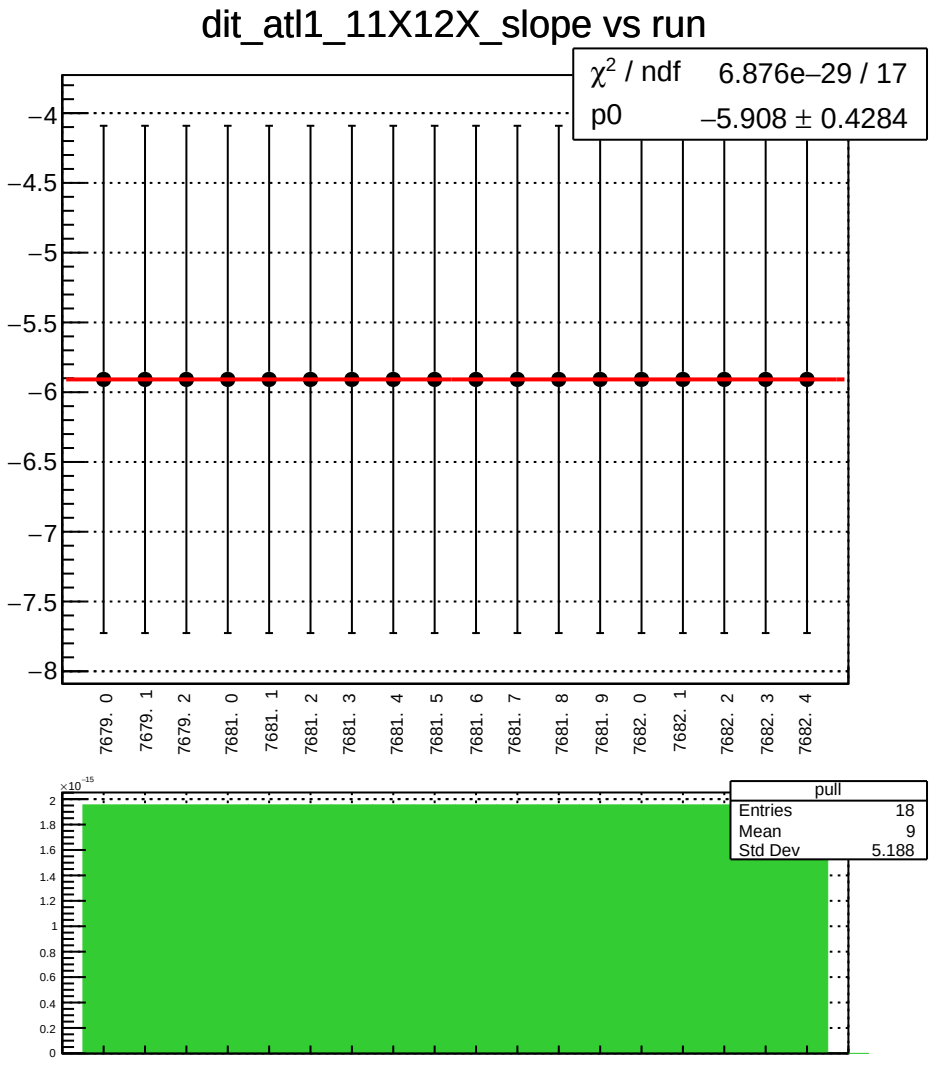

dit_usr_4eY_slope vs run
χ² / ndf 1.609e−27 / 17
p0 19.29 ± 0.2657
20.5
20
19.5
19
18.5
18
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
×10⁻¹⁵
0
−2
−4
−6
−8
pull
Entries 18
Mean 9
Std Dev 5.188

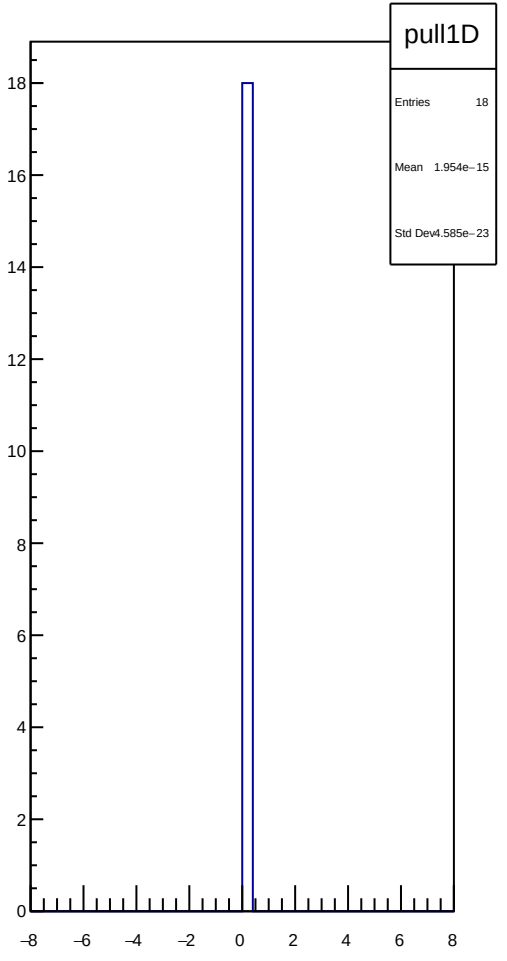

pull1D
Entries 18
Mean −9.454e−15
Std Dev3.512e−22
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

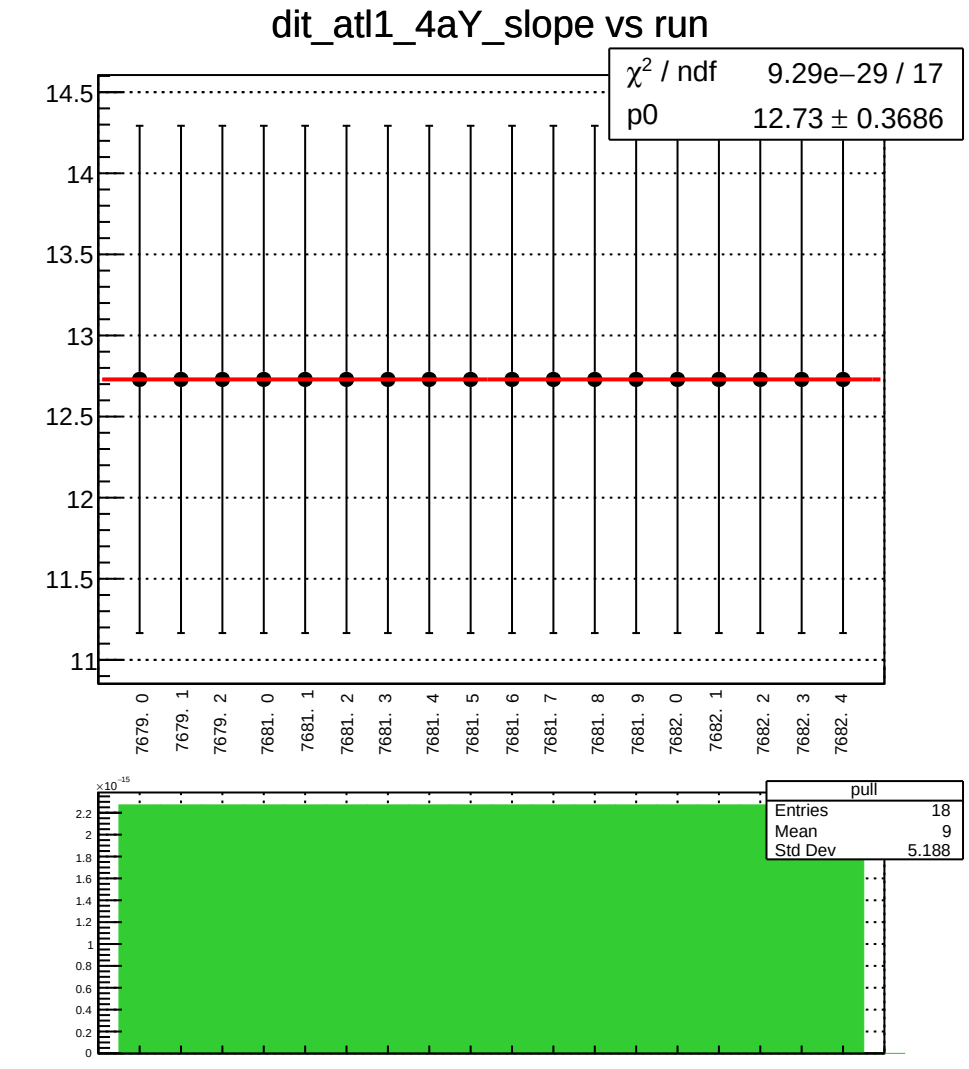

dit_atl1_4aX_slope vs run
χ² / ndf 5.097e−31 / 17
p0 −8.612 ± 2.488
0
−5
−10
−15
−20
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
×10⁻¹⁵
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
pull
Entries 18
Mean 9
Std Dev 5.188

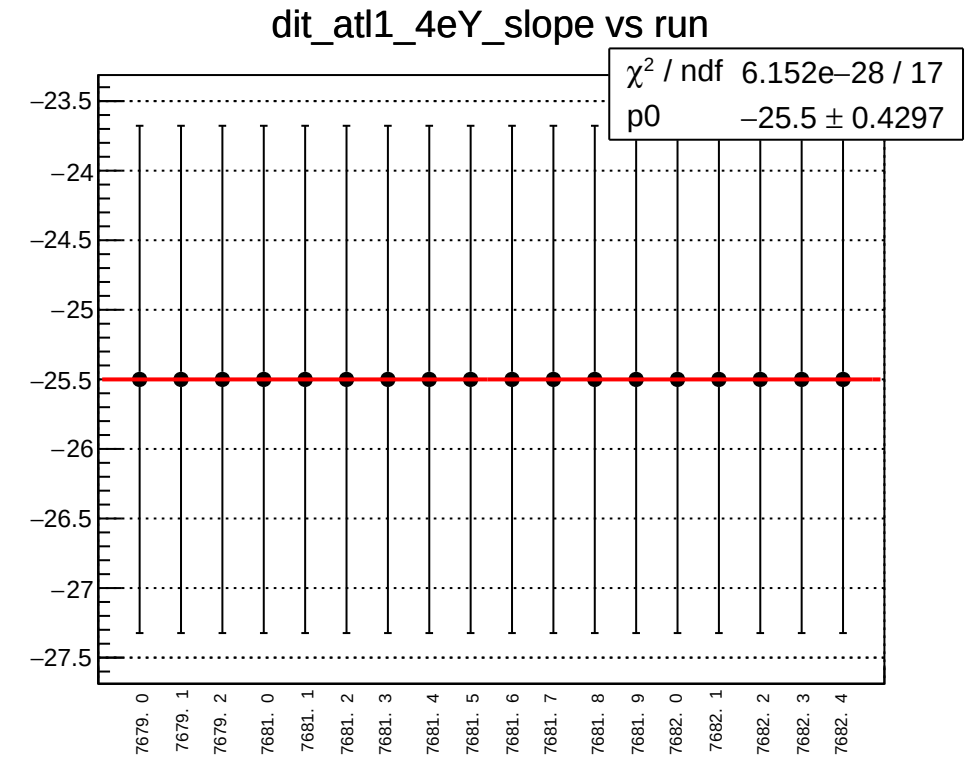

pull1D
Entries 18
Mean 1.683e−16
Std Dev4.052e−24
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

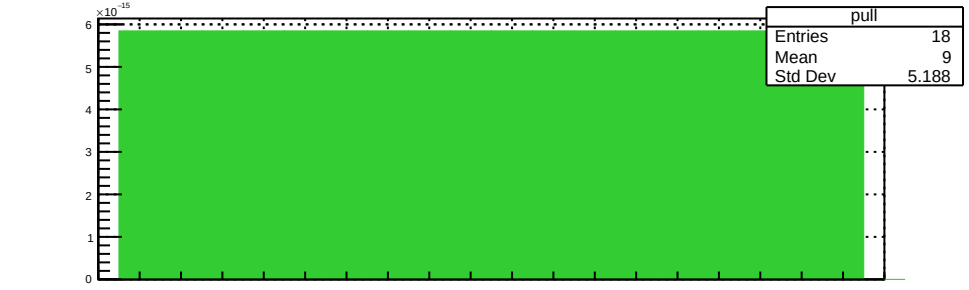

dit_atl1_4eX_slope vs run
χ² / ndf 6.227e−29 / 17
p0 44.71 ± 2.701
55
50
45
40
35
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
×10⁻¹⁵
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
pull
Entries 18
Mean 9
Std Dev 5.188
pull1D
Entries 18
Mean 1.86e−15
Std Dev 2.647e−23
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

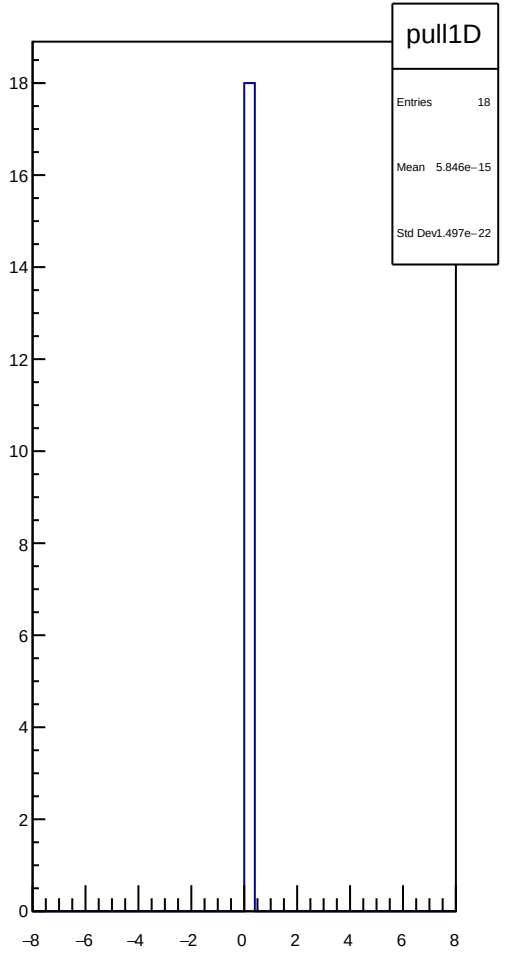

dit_atl1_11X12X_slope vs run
χ² / ndf 6.876e−29 / 17
p0 −5.908 ± 0.4284
−4
−4.5
−5
−5.5
−6
−6.5
−7
−7.5
−8
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
×10⁻¹⁵
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
pull
Entries 18
Mean 9
Std Dev 5.188

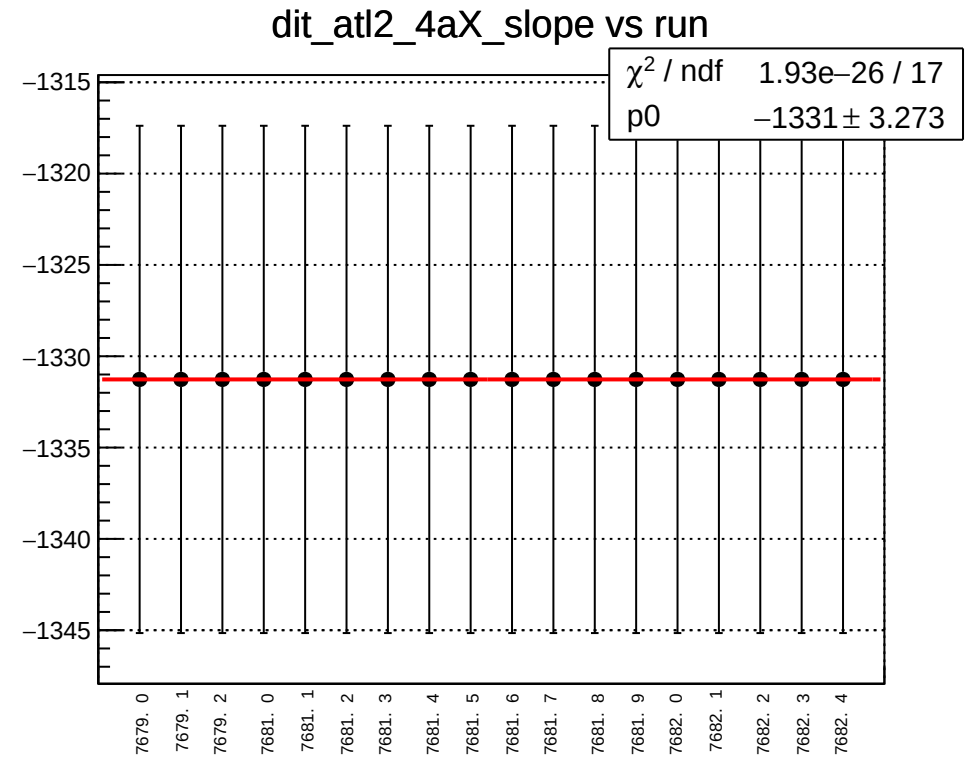

pull1D
Entries 18
Mean 1.954e−15
Std Dev4.585e−23
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

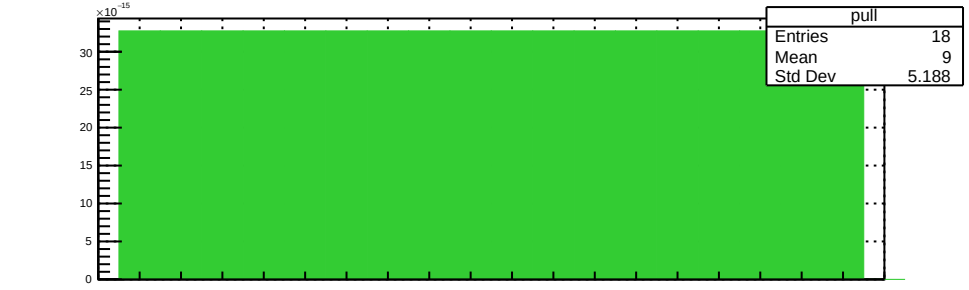

dit_atl1_4aY_slope vs run
χ² / ndf 9.29e−29 / 17
p0 12.73 ± 0.3686
14.5
14
13.5
13
12.5
12
11.5
11
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
×10⁻¹⁵
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
pull
Entries 18
Mean 9
Std Dev 5.188
pull1D
Entries 18
Mean 2.272e−15
Std Dev 2.647e−23
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

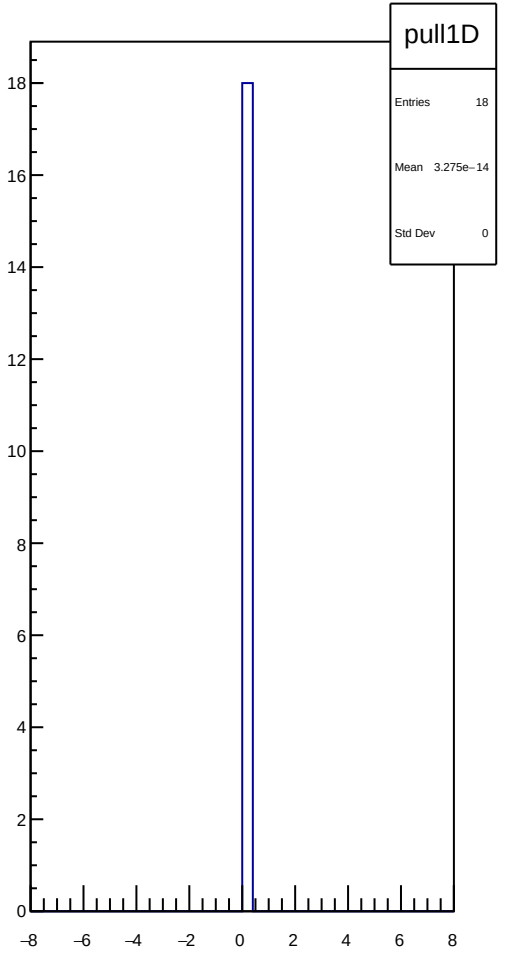

dit_atl1_4eY_slope vs run
χ² / ndf 6.152e−28 / 17
p0 −25.5 ± 0.4297
−23.5
−24
−24.5
−25
−25.5
−26
−26.5
−27
−27.5
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

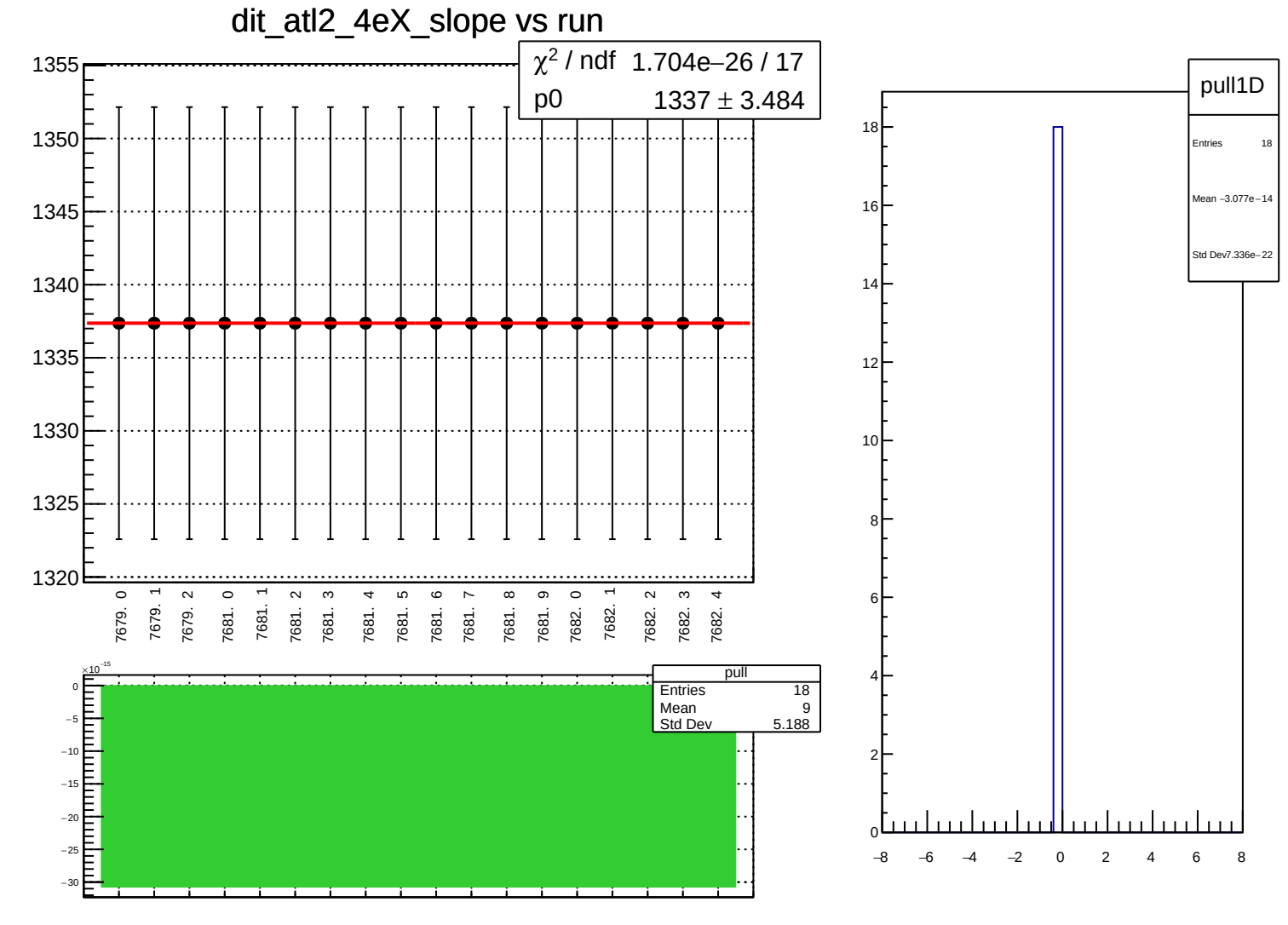

×10⁻¹⁵
pull
Entries 18
Mean 9
Std Dev 5.188

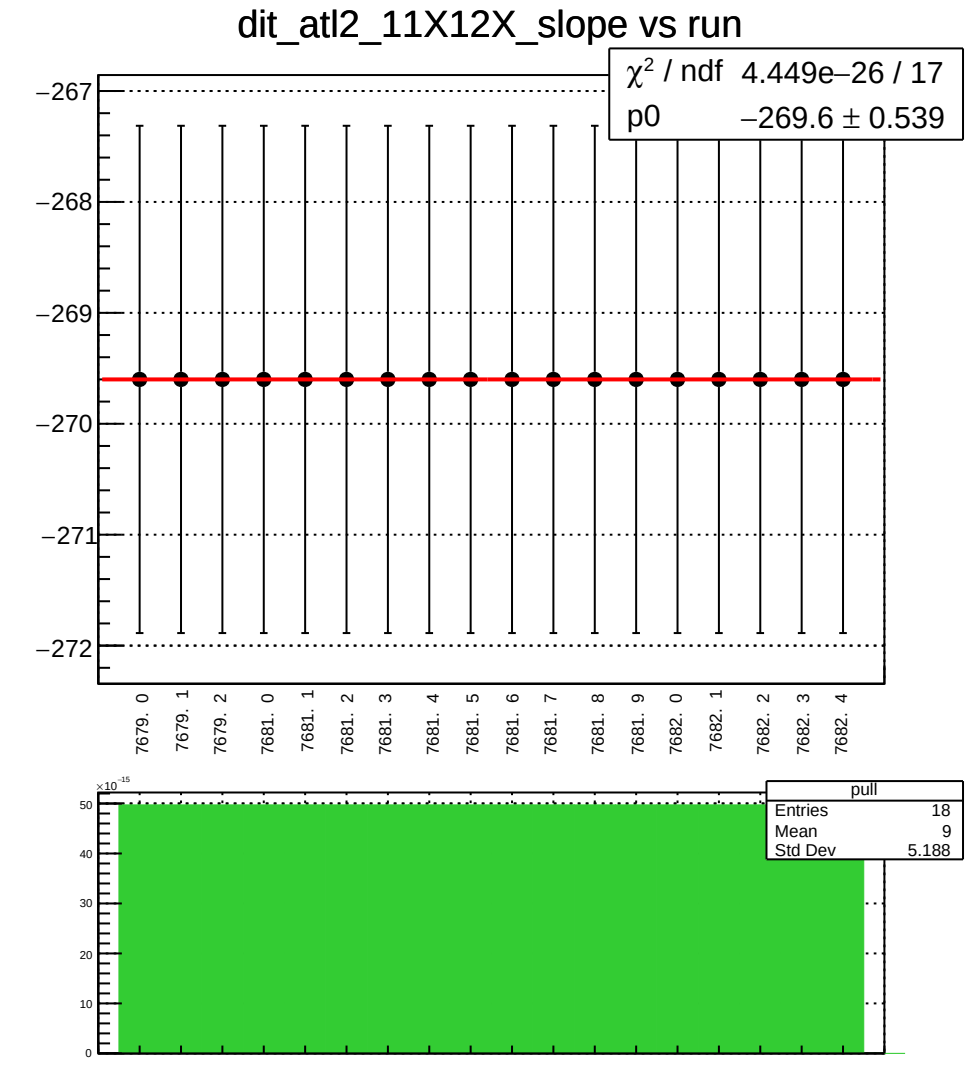

pull1D
Entries 18
Mean 5.846e−15
Std Dev1.497e−22

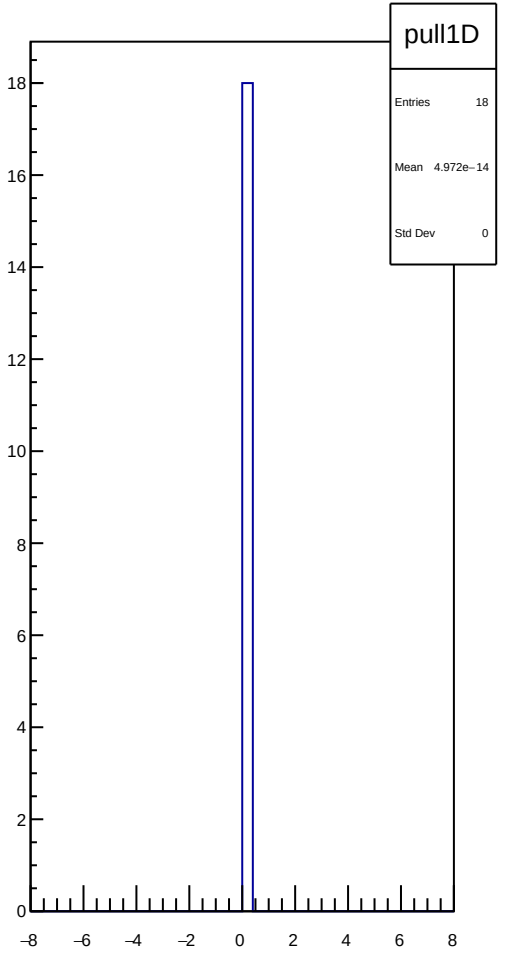

dit_atl2_4aX_slope vs run
χ² / ndf 1.93e−26 / 17
p0 −1331 ± 3.273
−1315
−1320
−1325
−1330
−1335
−1340
−1345
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

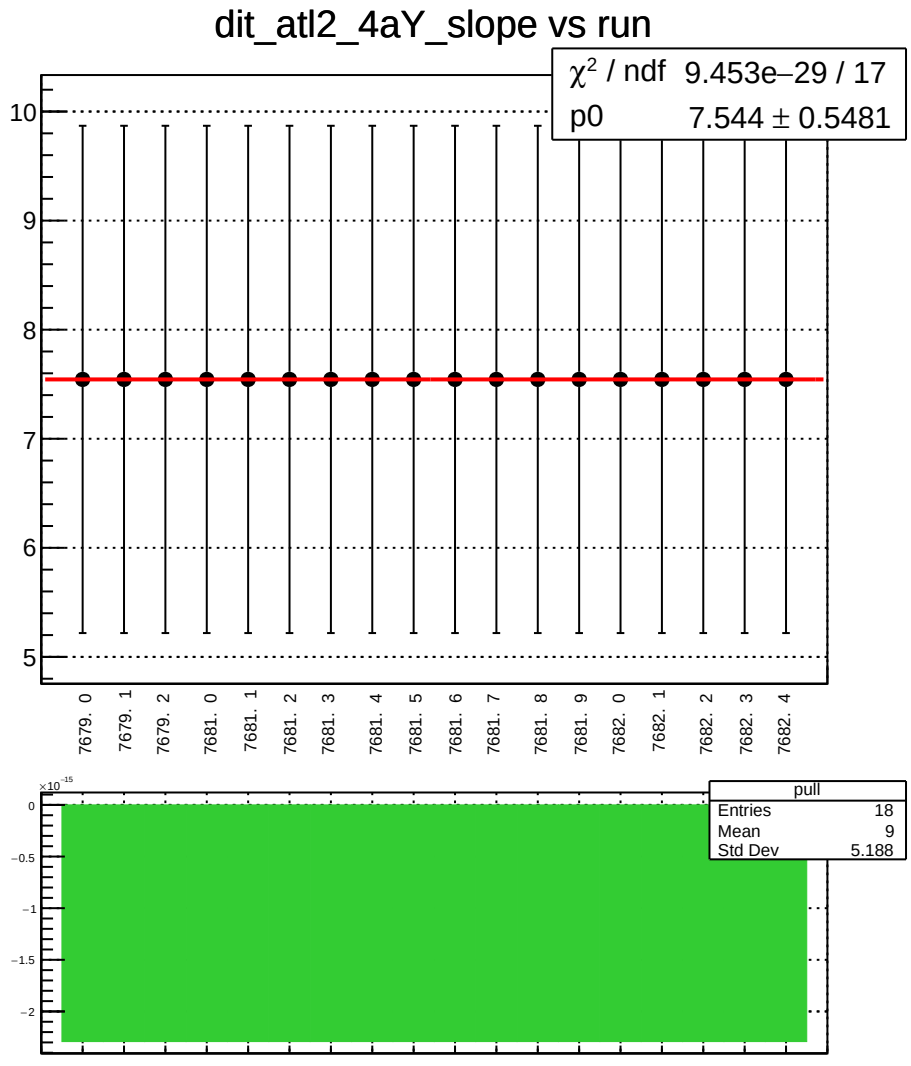

×10⁻¹⁵
pull
Entries 18
Mean 9
Std Dev 5.188
30
25
20
15
10
5
0

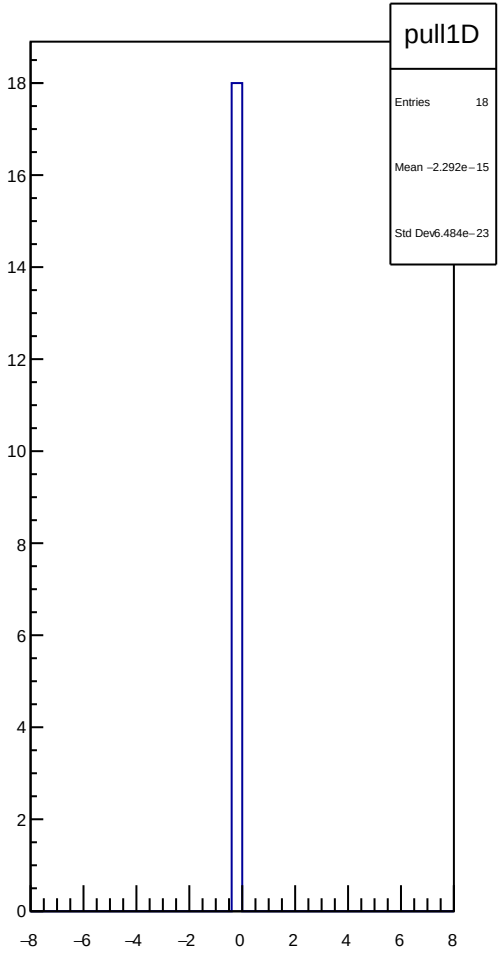

pull1D
Entries 18
Mean 3.275e−14
Std Dev 0
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

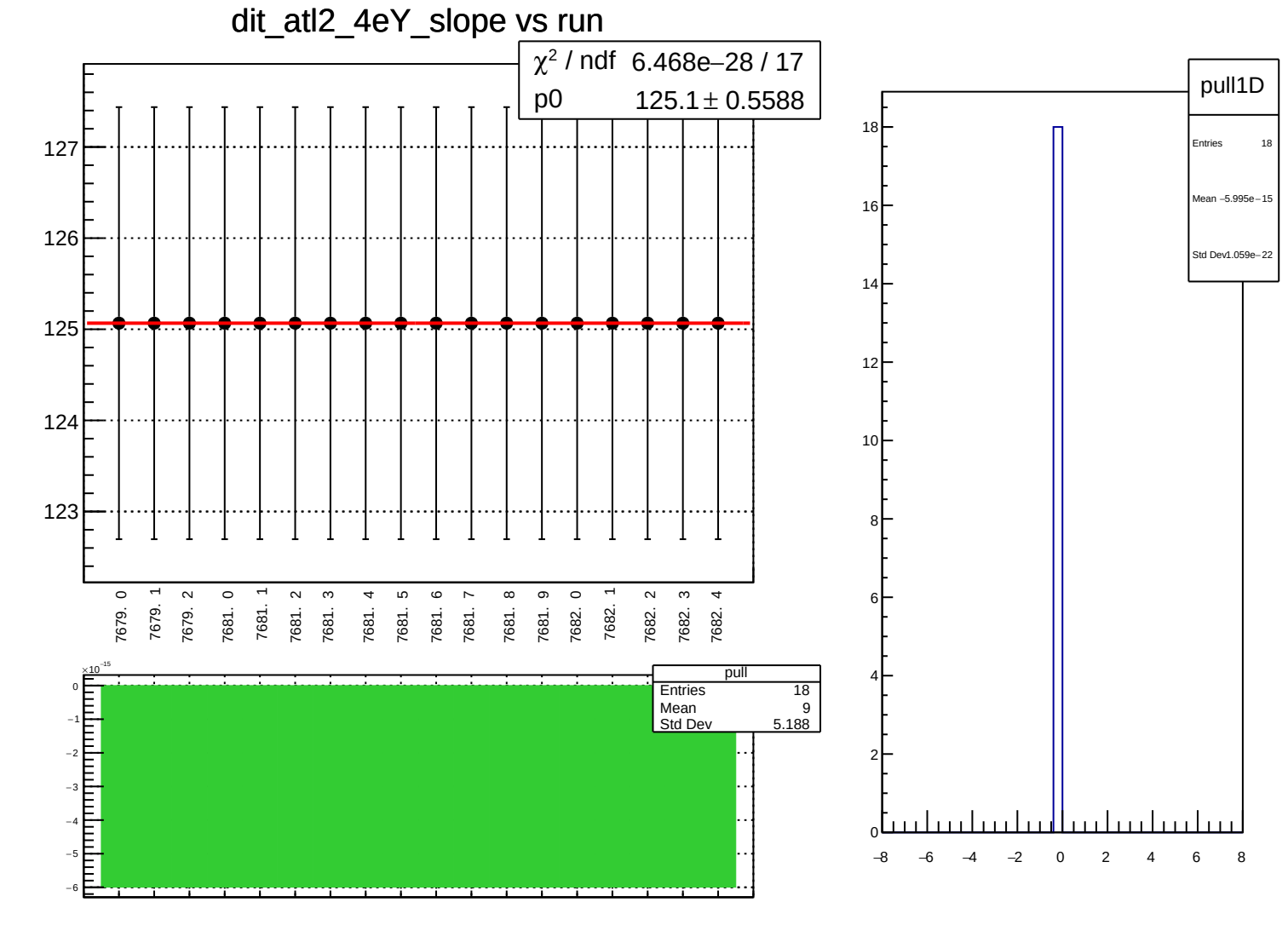

dit_atl2_4eX_slope vs run
χ² / ndf 1.704e−26 / 17
p0 1337 ± 3.484
1355
1350
1345
1340
1335
1330
1325
1320
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
×10⁻¹⁵
0
−5
−10
−15
−20
−25
−30
pull
Entries 18
Mean 9
Std Dev 5.188
pull1D
Entries 18
Mean −3.077e−14
Std Dev7.336e−22
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

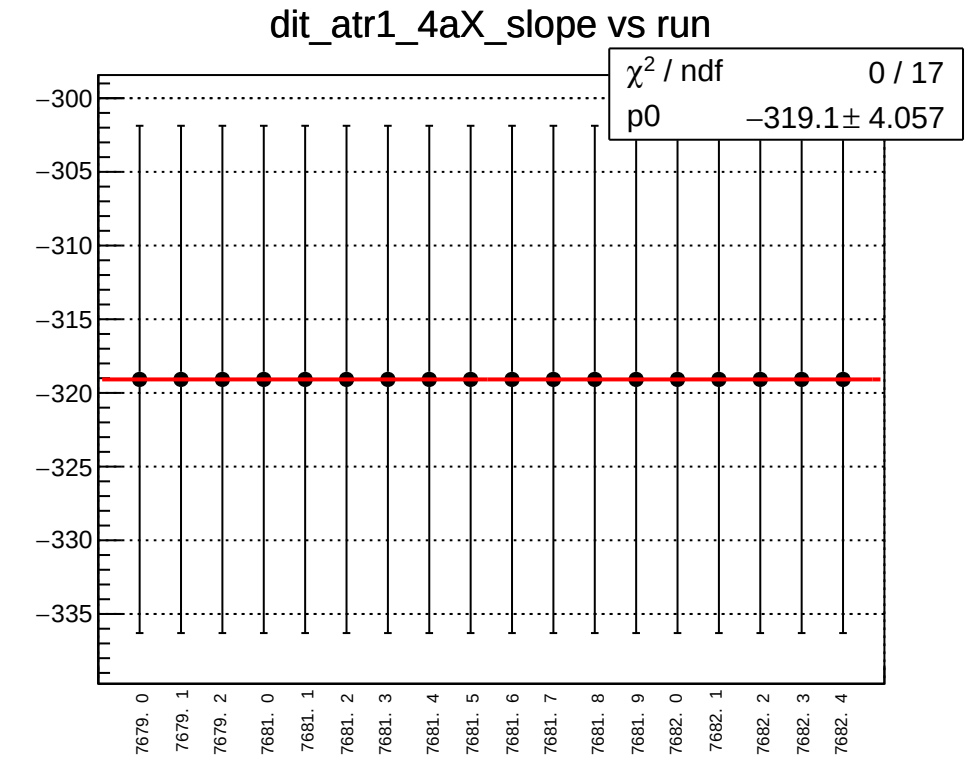

dit_atl2_11X12X_slope vs run
χ² / ndf 4.449e−26 / 17
p0 −269.6 ± 0.539
−267
−268
−269
−270
−271
−272
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
×10⁻¹⁵
50
40
30
20
10
0
pull
Entries 18
Mean 9
Std Dev 5.188

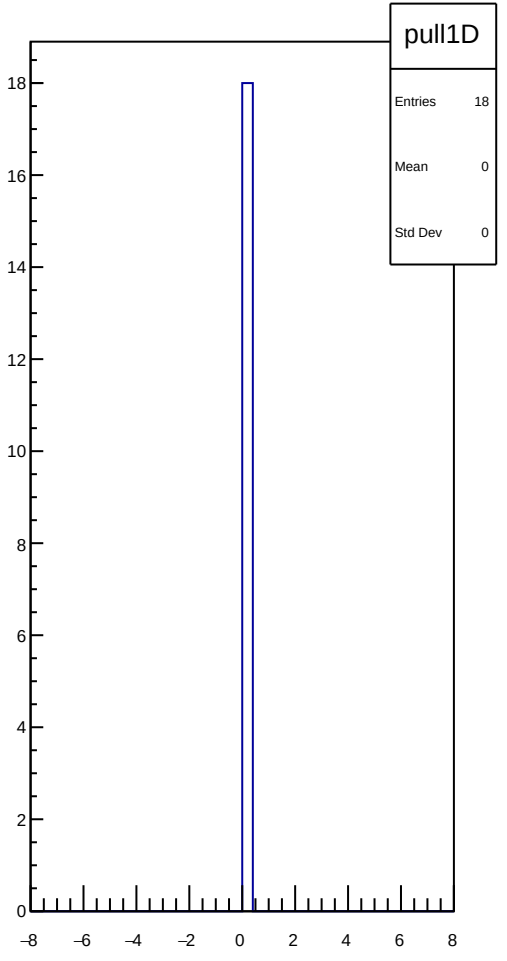

pull1D
Entries 18
Mean 4.972e−14
Std Dev 0
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

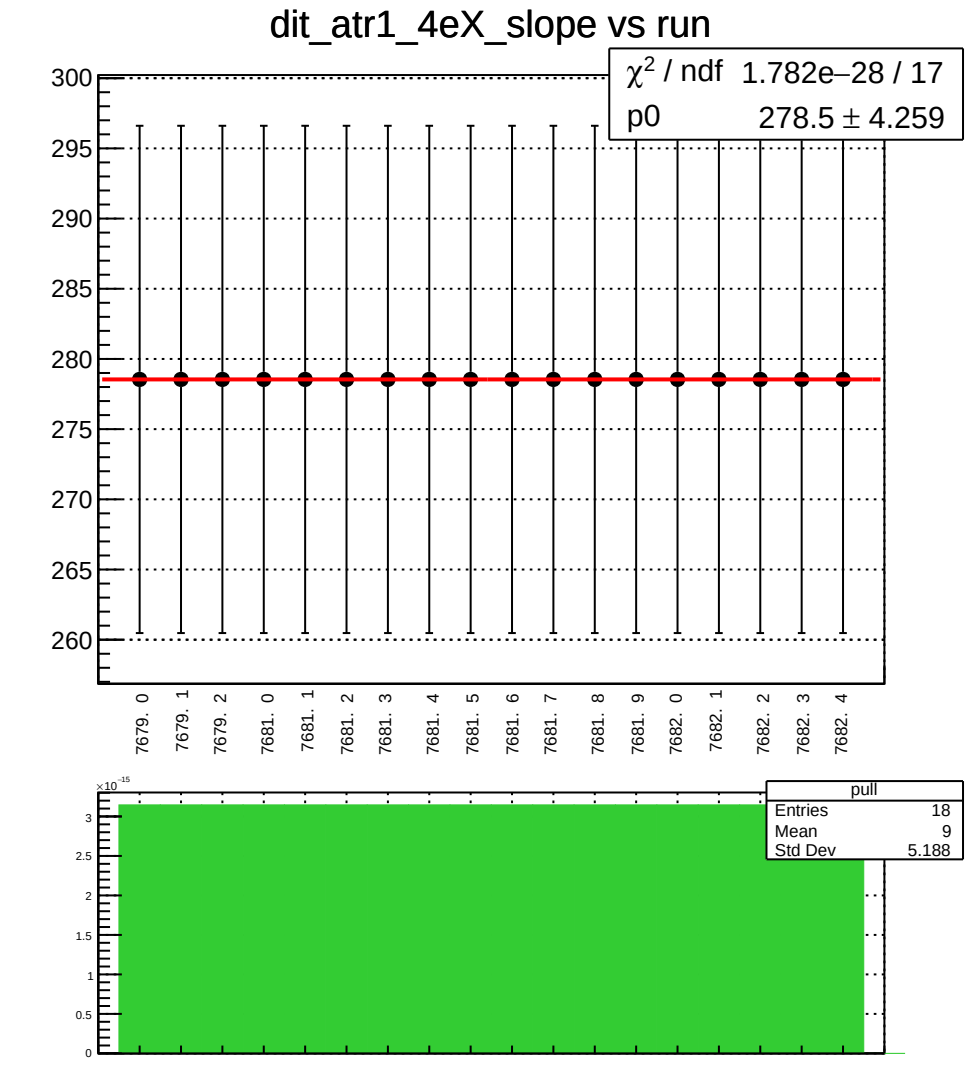

dit_atl2_4aY_slope vs run
χ² / ndf 9.453e−29 / 17
p0 7.544 ± 0.5481
10
9
8
7
6
5
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
×10⁻¹⁵
0
−0.5
−1
−1.5
−2
pull
Entries 18
Mean 9
Std Dev 5.188

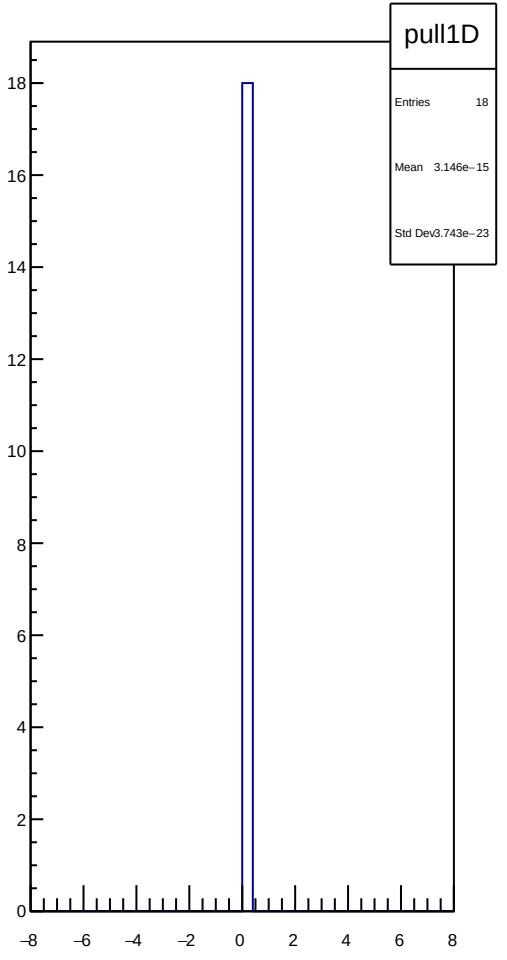

pull1D
Entries 18
Mean −2.292e−15
Std Dev6.484e−23
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

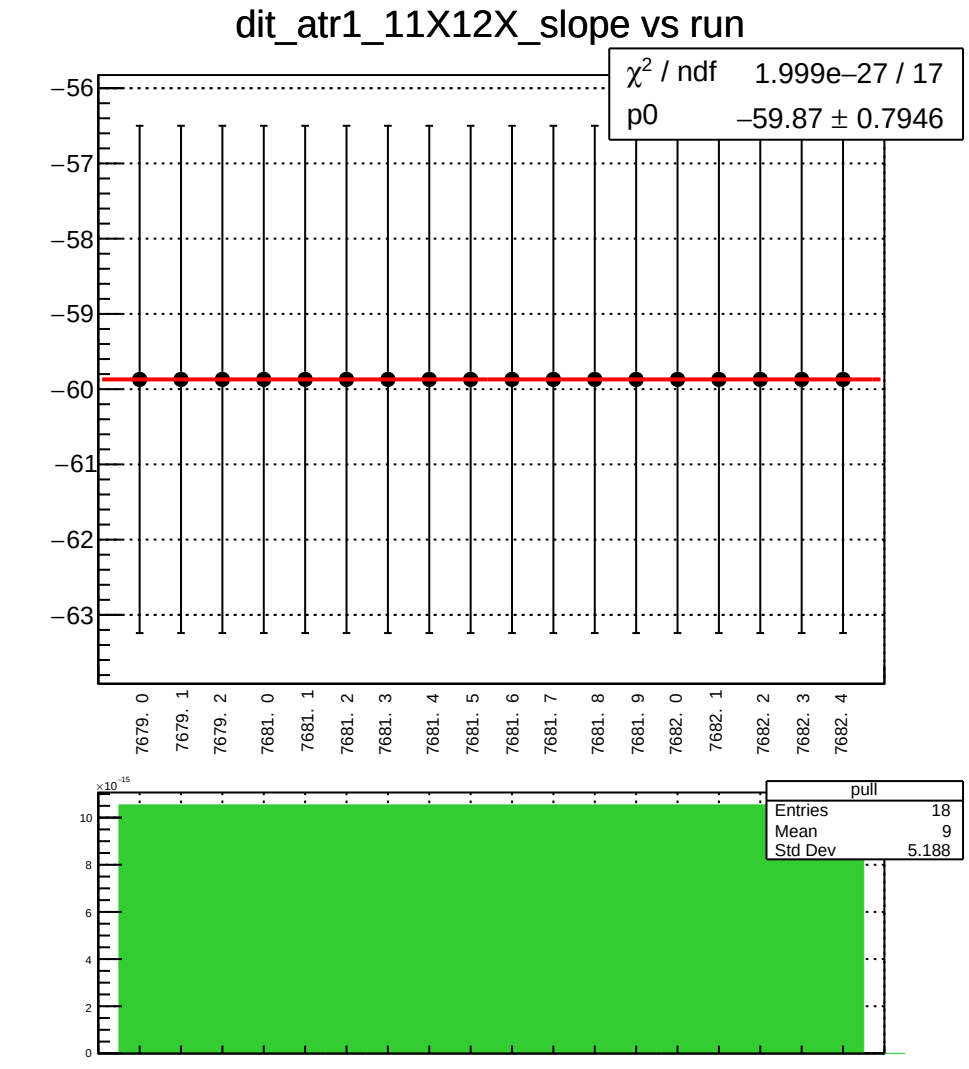

dit_atl2_4eY_slope vs run
χ² / ndf 6.468e−28 / 17
p0 125.1 ± 0.5588
127
126
125
124
123
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 9
Std Dev 5.188
×10⁻¹⁵
0
−1
−2
−3
−4
−5
−6
pull1D
Entries 18
Mean −5.995e−15
Std Dev1.059e−22
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

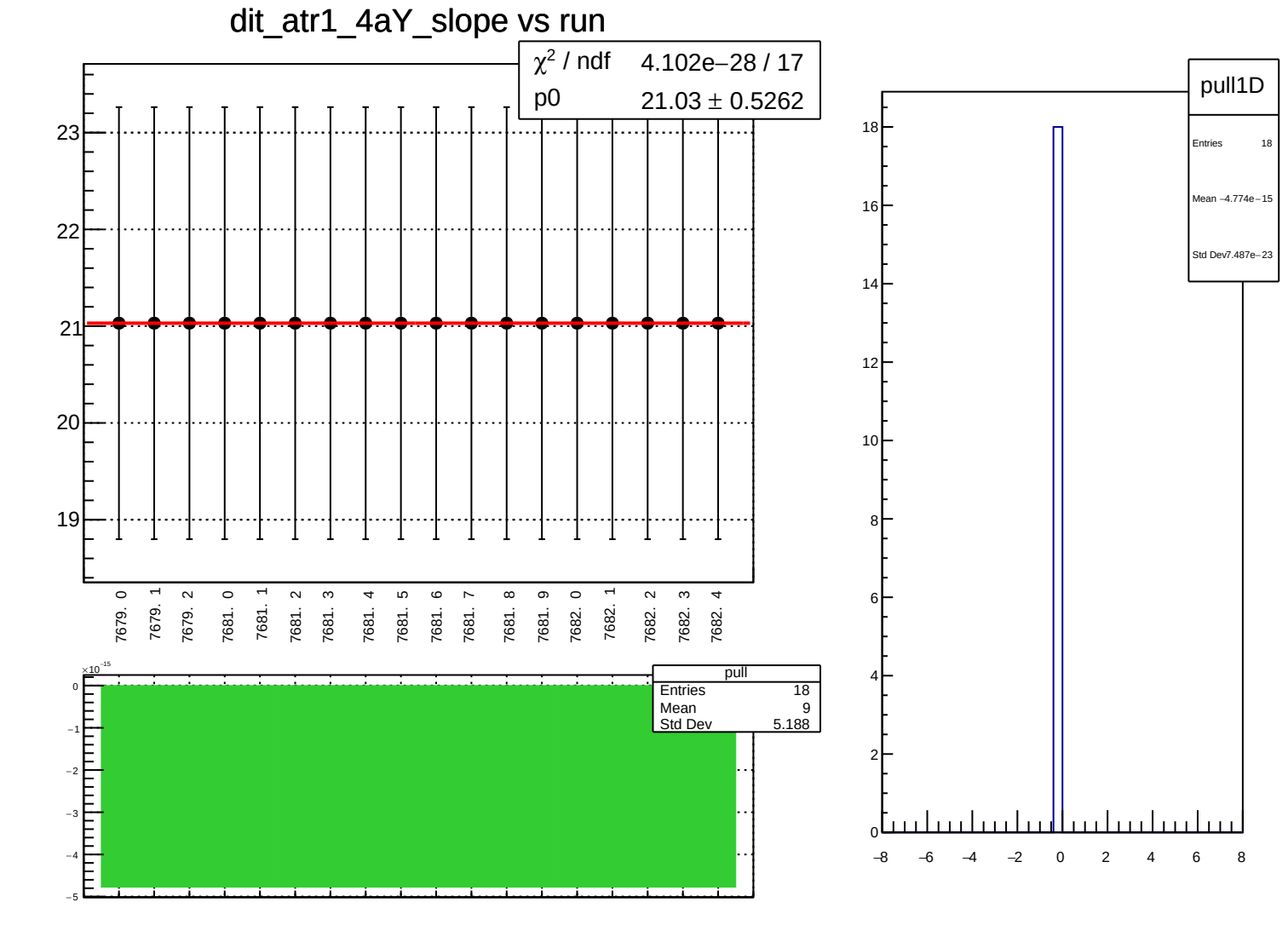

dit_atr1_4aX_slope vs run
χ² / ndf 0 / 17
p0 −319.1± 4.057
−300
−305
−310
−315
−320
−325
−330
−335
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

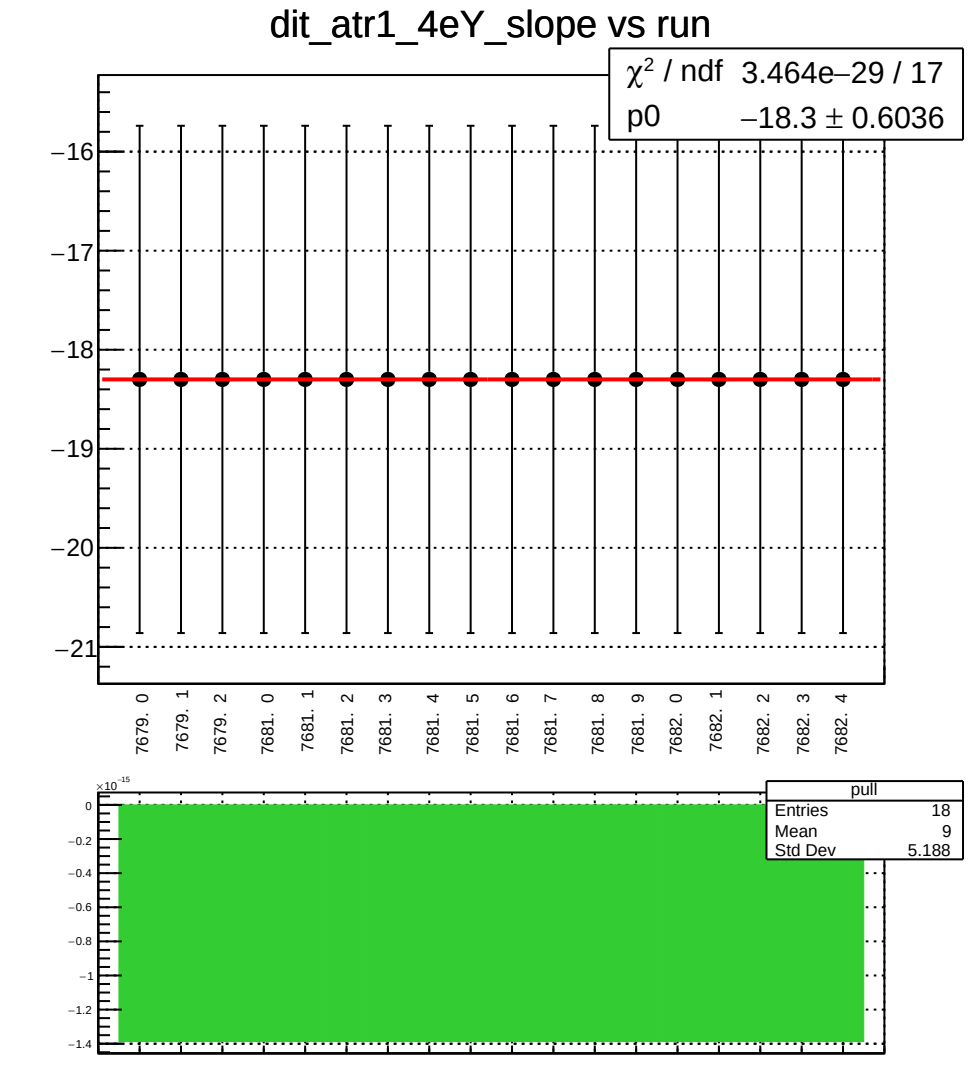

pull1D
Entries 18
Mean 0
Std Dev 0
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

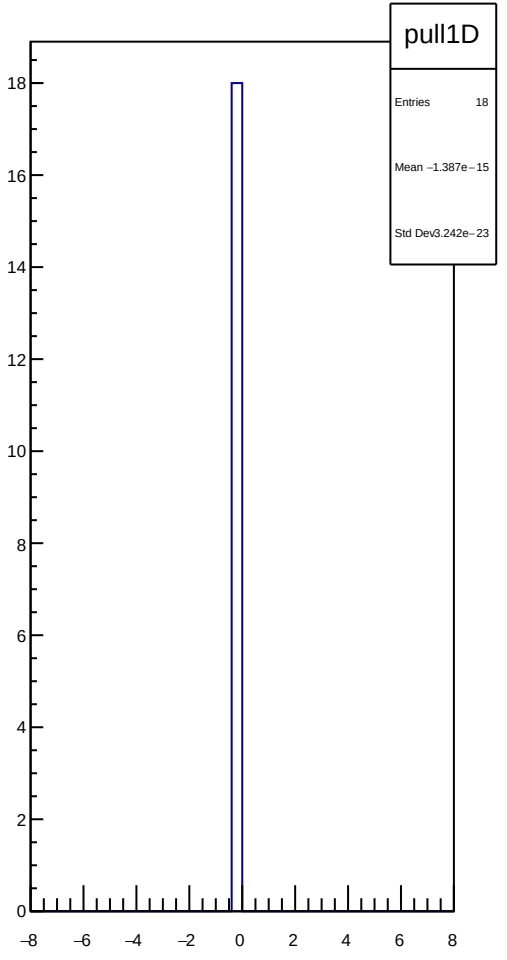

dit_atr1_4eX_slope vs run
χ² / ndf 1.782e−28 / 17
p0 278.5 ± 4.259
300
295
290
285
280
275
270
265
260
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
×10⁻¹⁵
3
2.5
2
1.5
1
0.5
0
pull
Entries 18
Mean 9
Std Dev 5.188

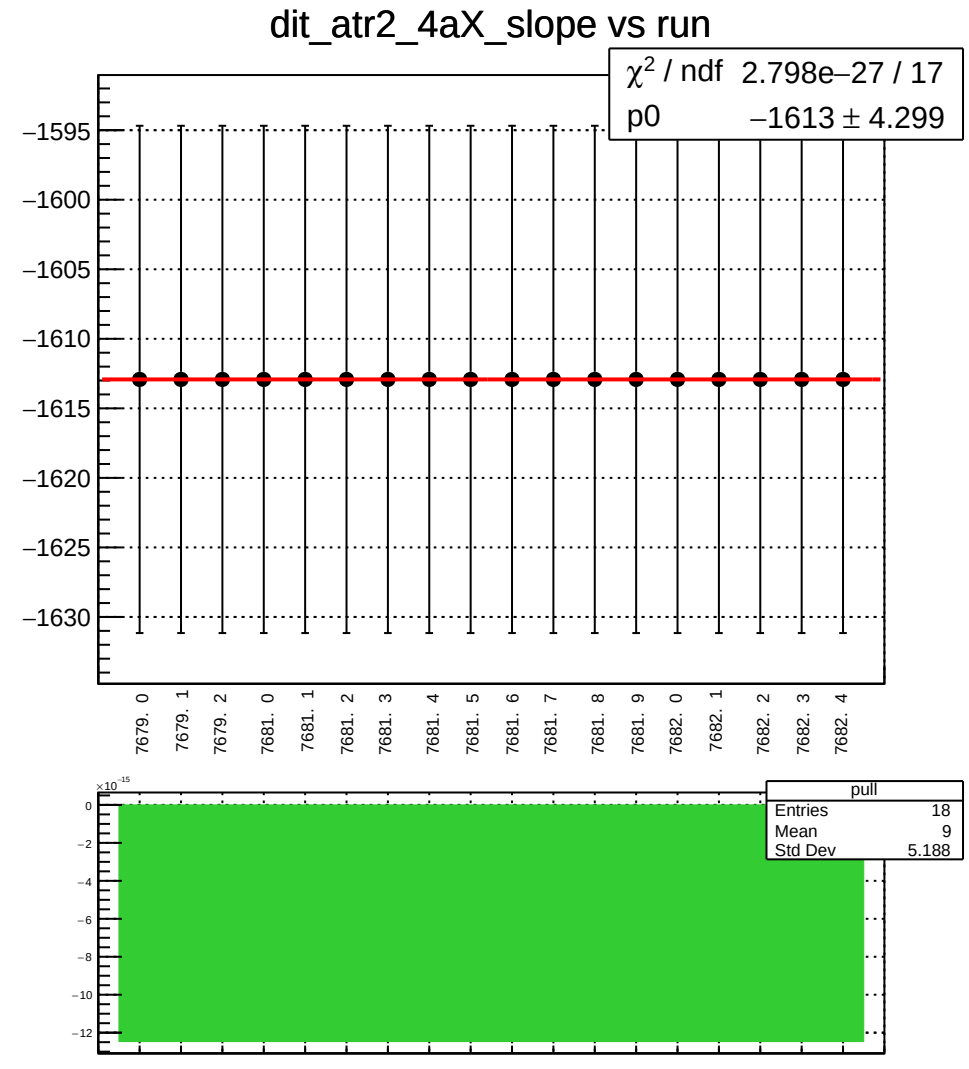

pull1D
Entries 18
Mean 3.146e−15
Std Dev 3.743e−23
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

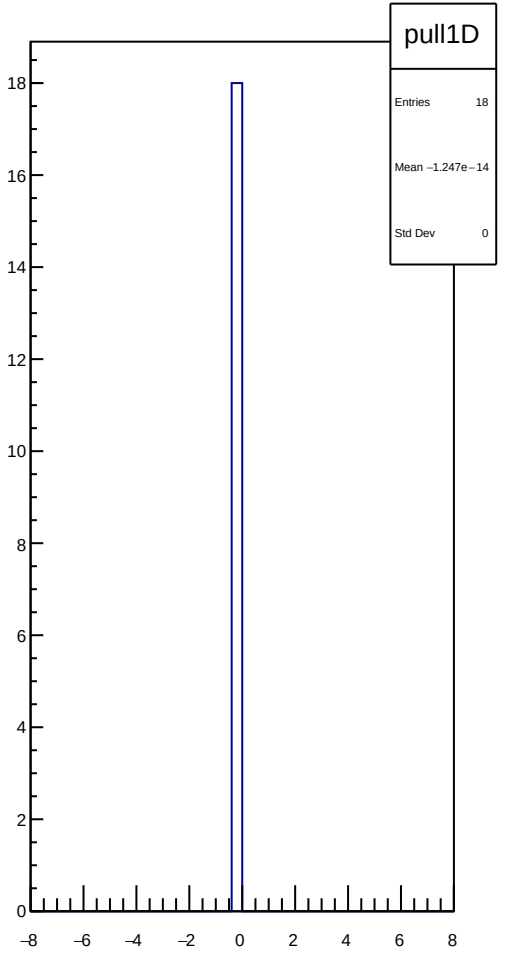

dit_atr1_11X12X_slope vs run
χ² / ndf 1.999e−27 / 17
p0 −59.87 ± 0.7946
−56
−57
−58
−59
−60
−61
−62
−63
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
×10⁻¹⁵
pull
Entries 18
Mean 9
Std Dev 5.188
pull1D
Entries 18
Mean 1.054e−14
Std Dev1.497e−22

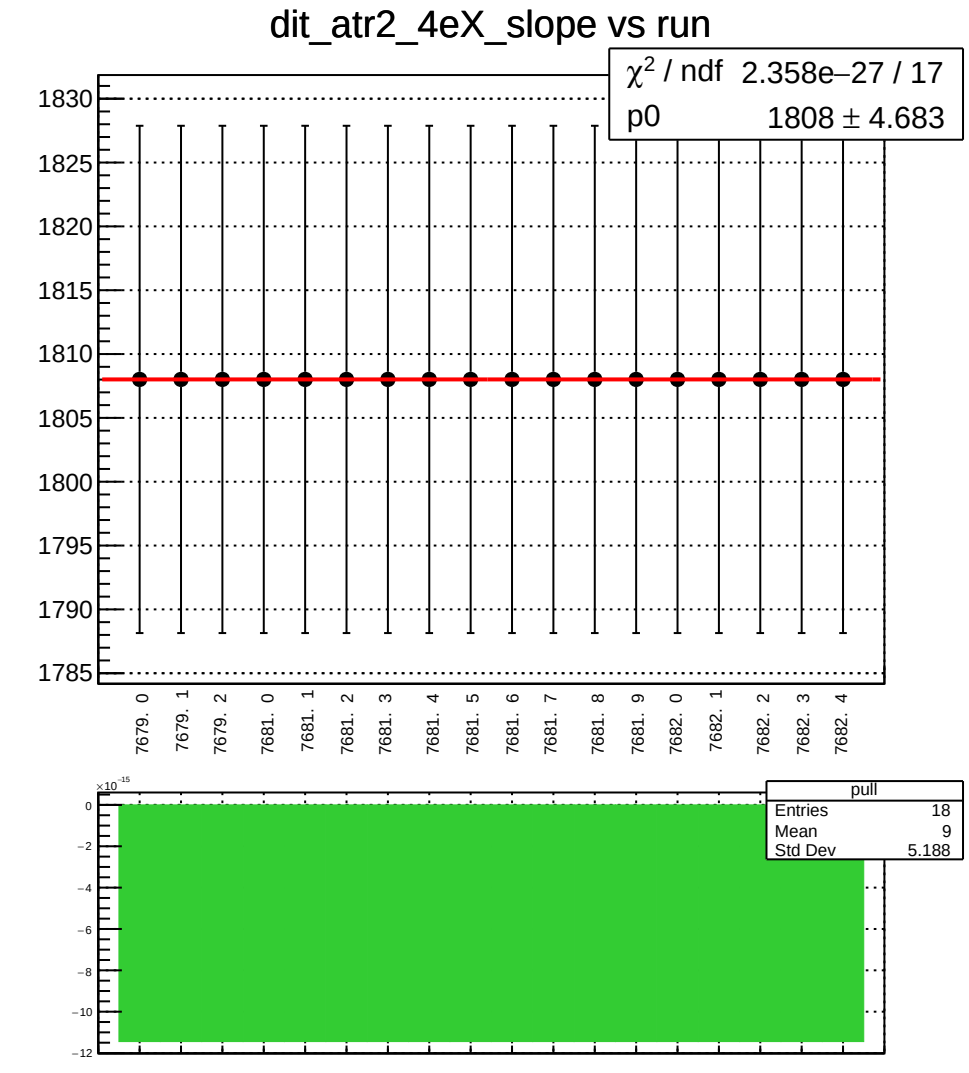

dit_atr1_4aY_slope vs run
χ² / ndf 4.102e−28 / 17
p0 21.03 ± 0.5262
23
22
21
20
19
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
×10⁻¹⁵
0
−1
−2
−3
−4
−5
pull
Entries 18
Mean 9
Std Dev 5.188
pull1D
Entries 18
Mean −4.774e−15
Std Dev7.487e−23
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

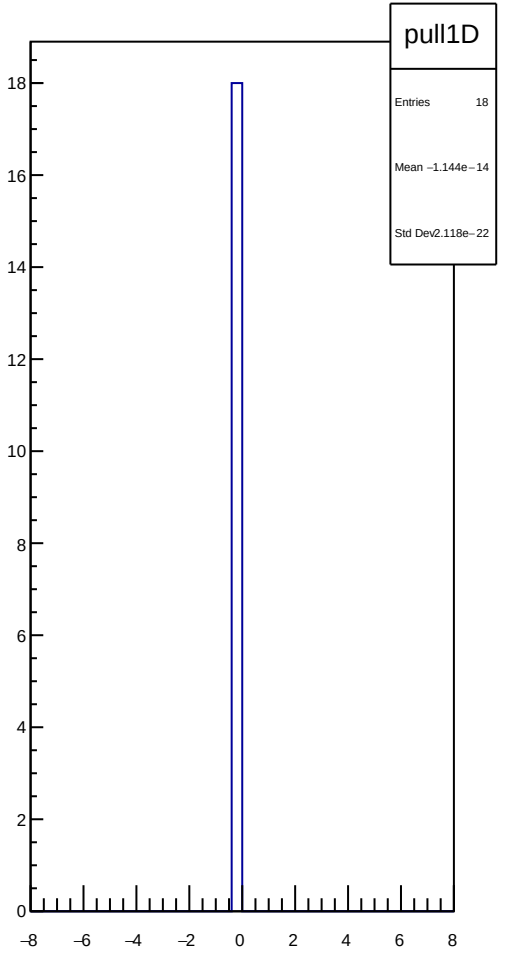

dit_atr1_4eY_slope vs run
χ² / ndf 3.464e−29 / 17
p0 −18.3 ± 0.6036
−16
−17
−18
−19
−20
−21
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
×10⁻¹⁵
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4
pull
Entries 18
Mean 9
Std Dev 5.188

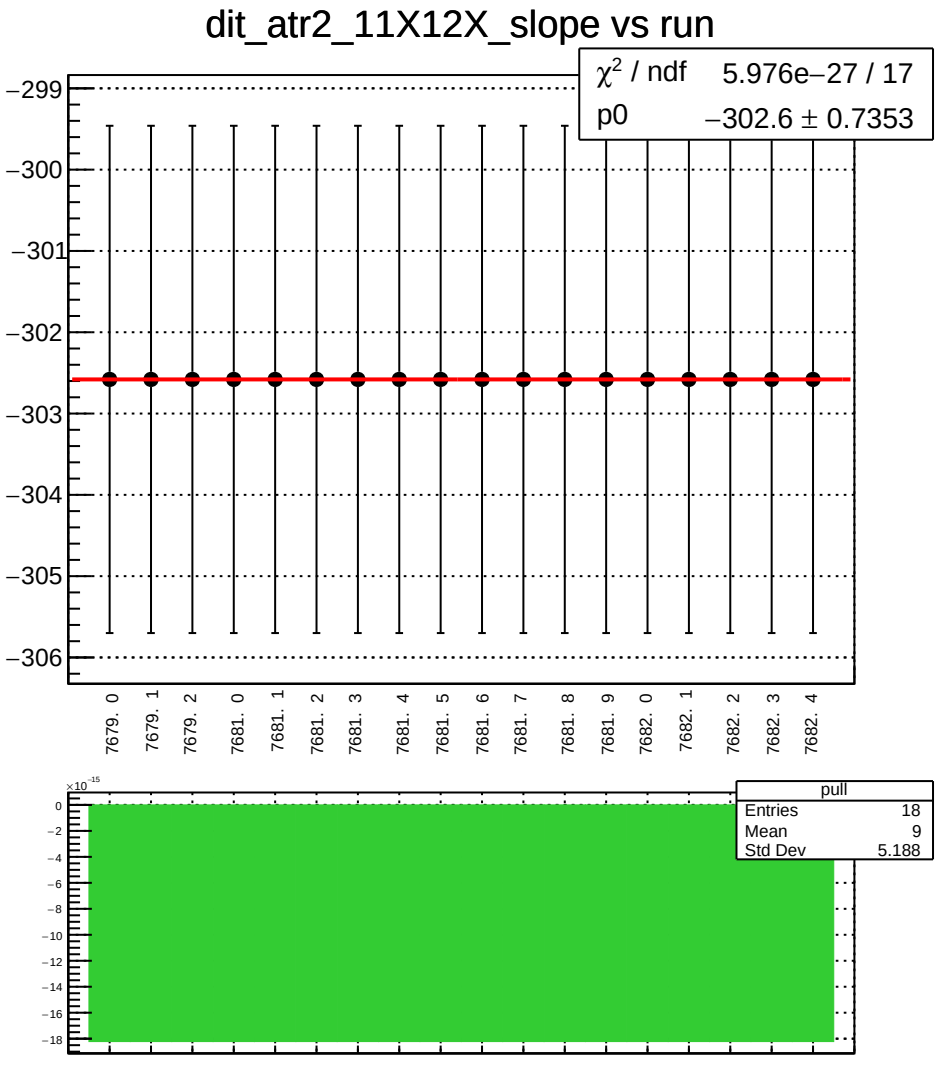

pull1D
Entries 18
Mean −1.387e−15
Std Dev3.242e−23
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

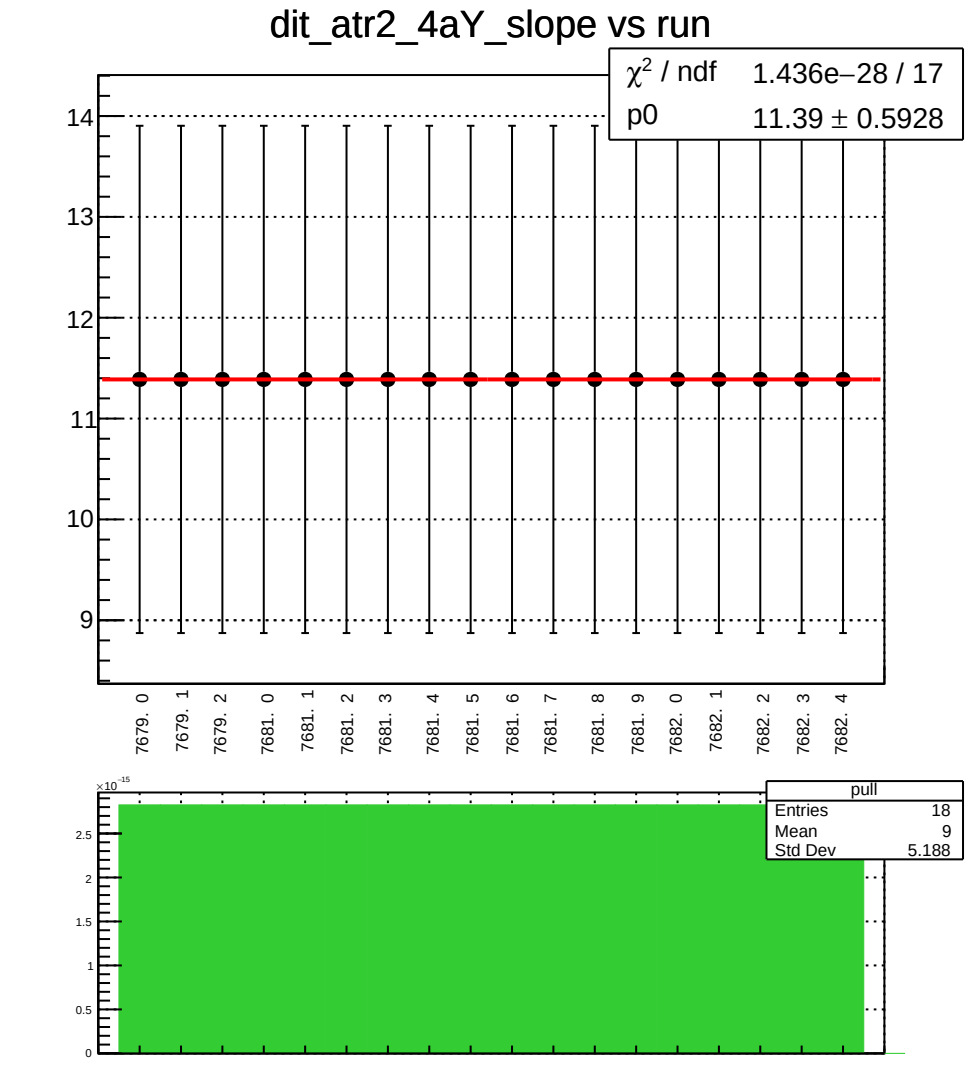

dit_atr2_4aX_slope vs run
χ² / ndf 2.798e−27 / 17
p0 −1613 ± 4.299
−1595
−1600
−1605
−1610
−1615
−1620
−1625
−1630
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
×10⁻¹⁵
0
−2
−4
−6
−8
−10
−12
pull
Entries 18
Mean 9
Std Dev 5.188

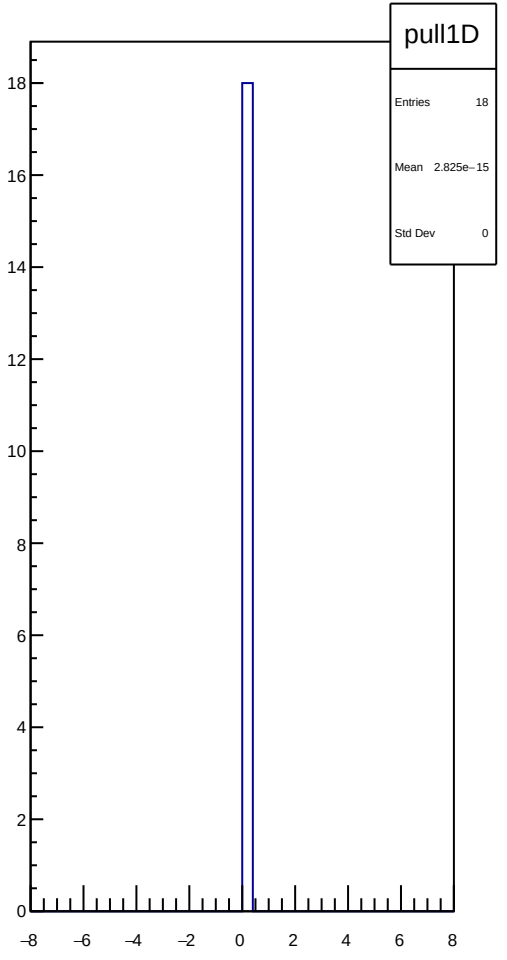

pull1D
Entries 18
Mean −1.247e−14
Std Dev 0
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

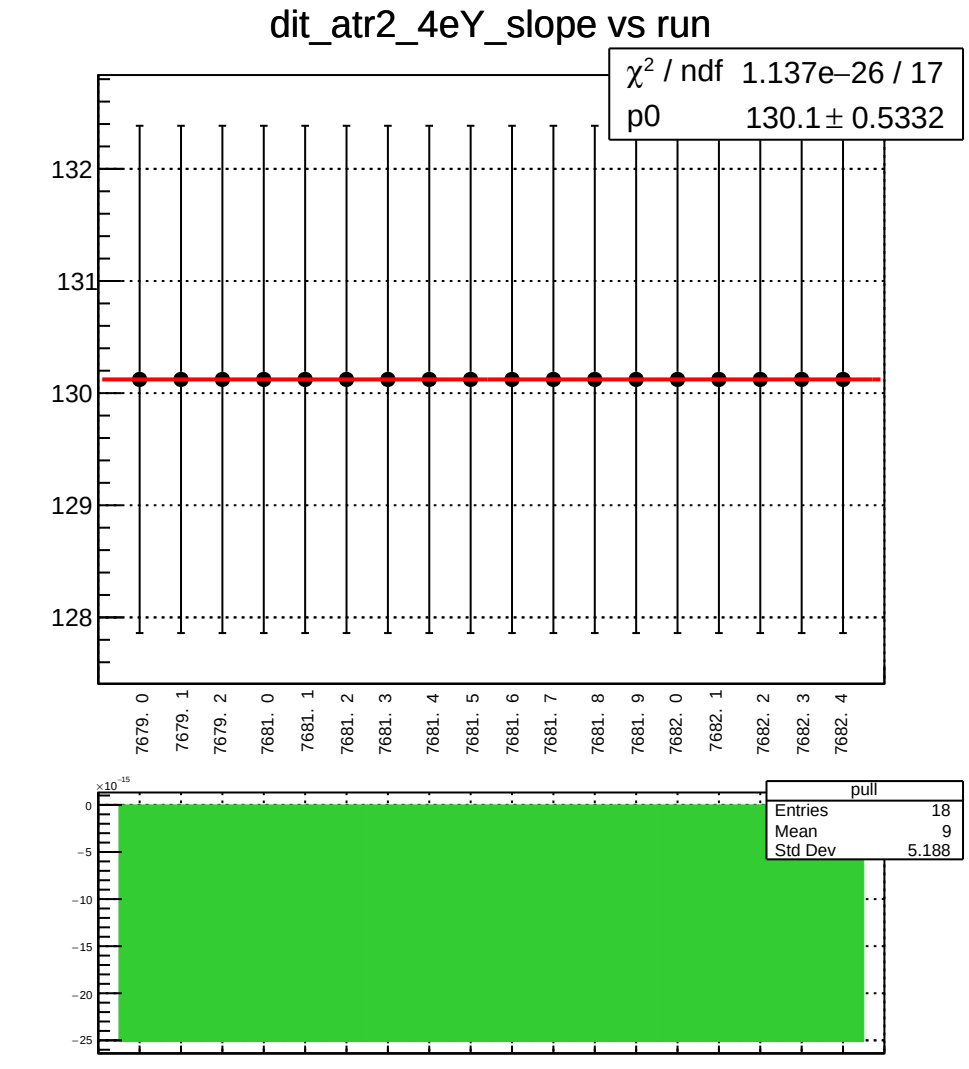

dit_atr2_4eX_slope vs run
χ² / ndf 2.358e−27 / 17
p0 1808 ± 4.683
1830
1825
1820
1815
1810
1805
1800
1795
1790
1785
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
×10⁻¹⁵
0
−2
−4
−6
−8
−10
−12
pull
Entries 18
Mean 9
Std Dev 5.188

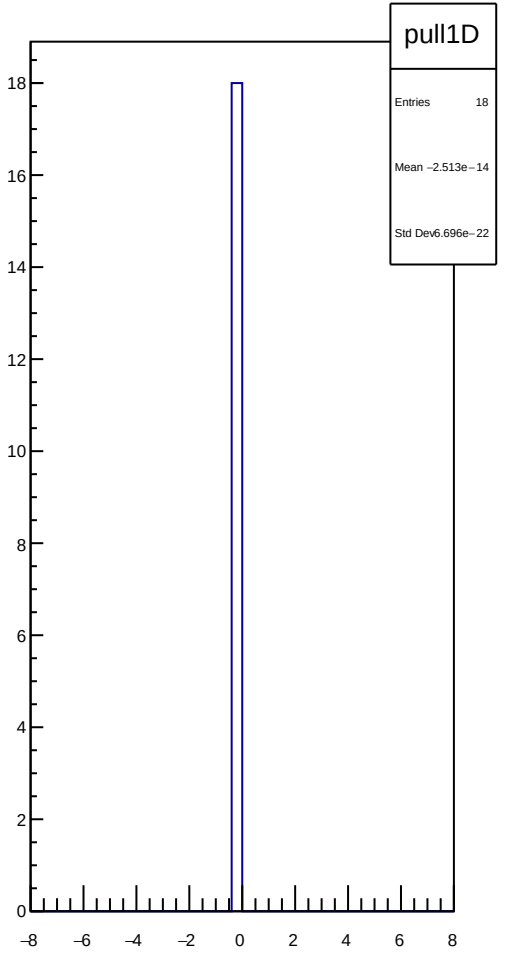

pull1D
Entries 18
Mean −1.144e−14
Std Dev2.118e−22
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

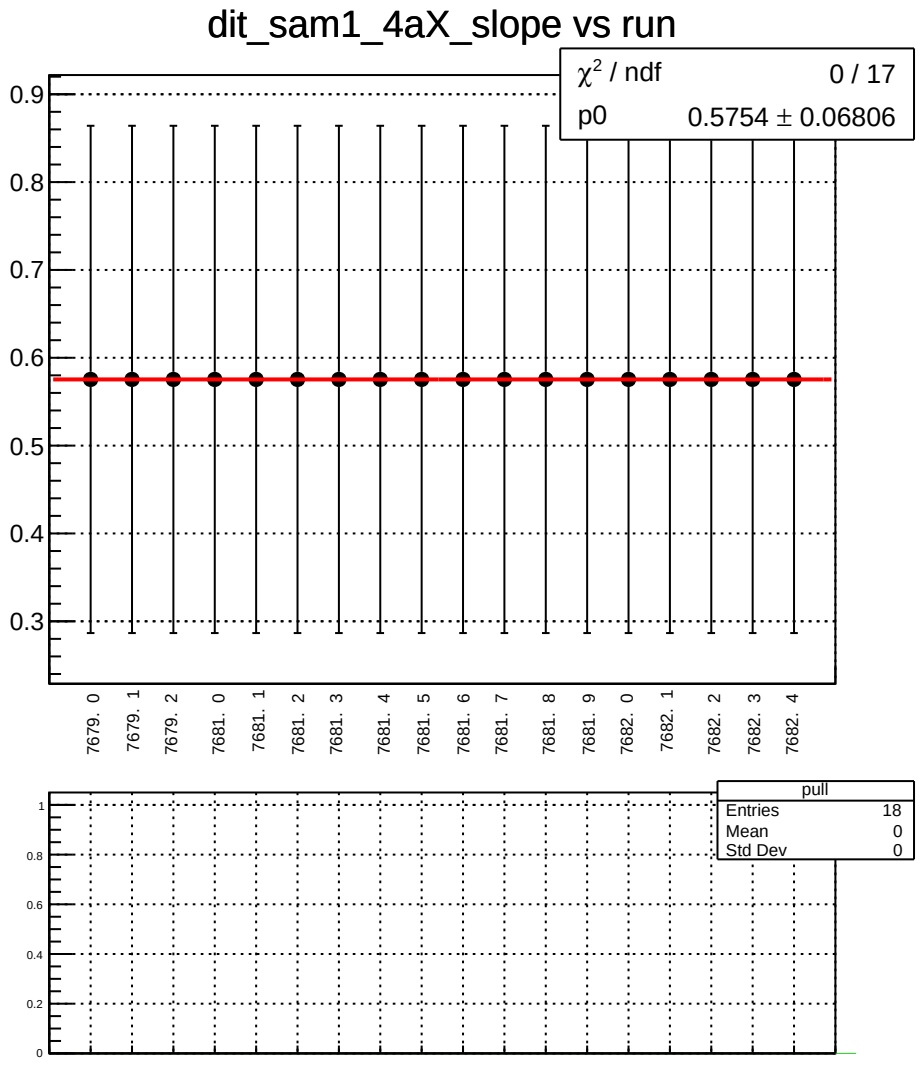

dit_atr2_11X12X_slope vs run
χ² / ndf 5.976e−27 / 17
p0 −302.6 ± 0.7353
−299
−300
−301
−302
−303
−304
−305
−306
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
×10⁻¹⁵
pull
Entries 18
Mean 9
Std Dev 5.188
pull1D
Entries 18
Mean −1.822e−14
Std Dev 2.995e−22

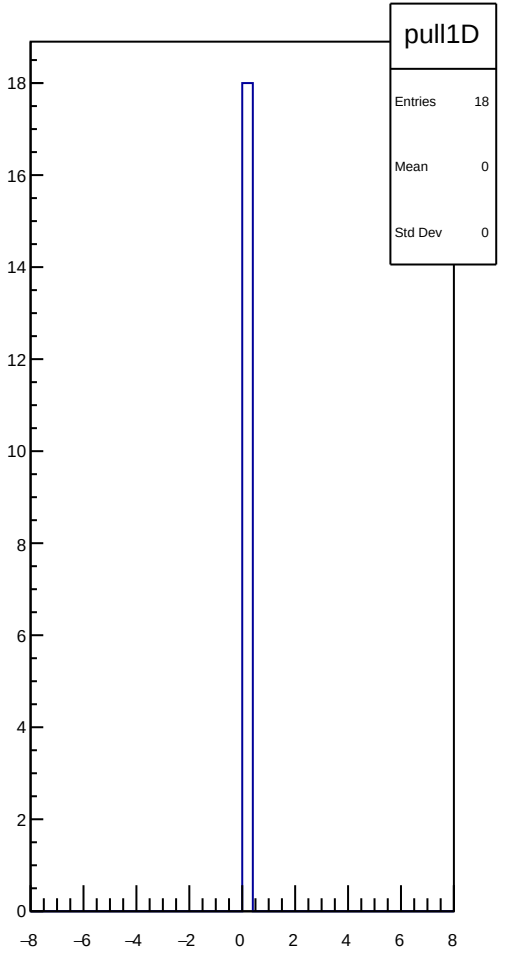

dit_atr2_4aY_slope vs run
χ² / ndf 1.436e−28 / 17
p0 11.39 ± 0.5928
14
13
12
11
10
9
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
×10⁻¹⁵
2.5
2
1.5
1
0.5
0
pull
Entries 18
Mean 9
Std Dev 5.188

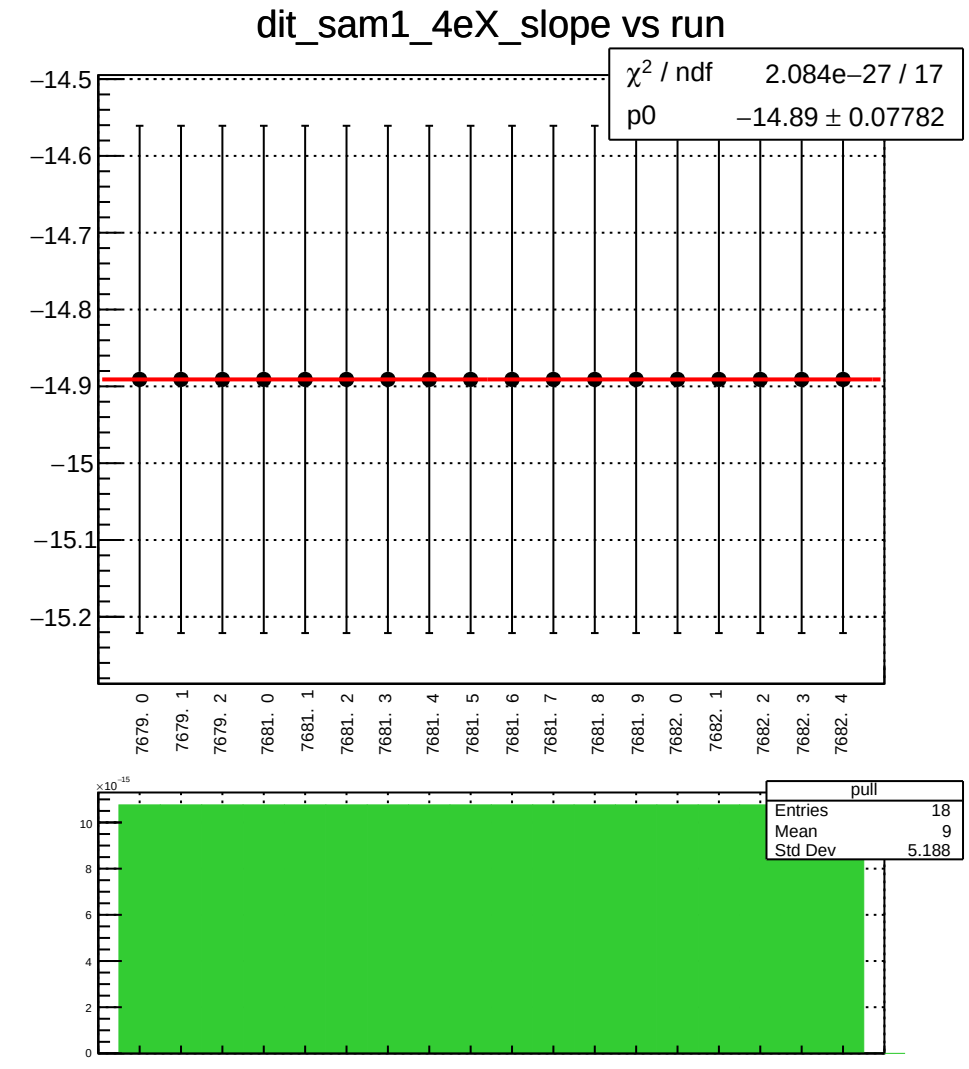

pull1D
Entries 18
Mean 2.825e−15
Std Dev 0
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

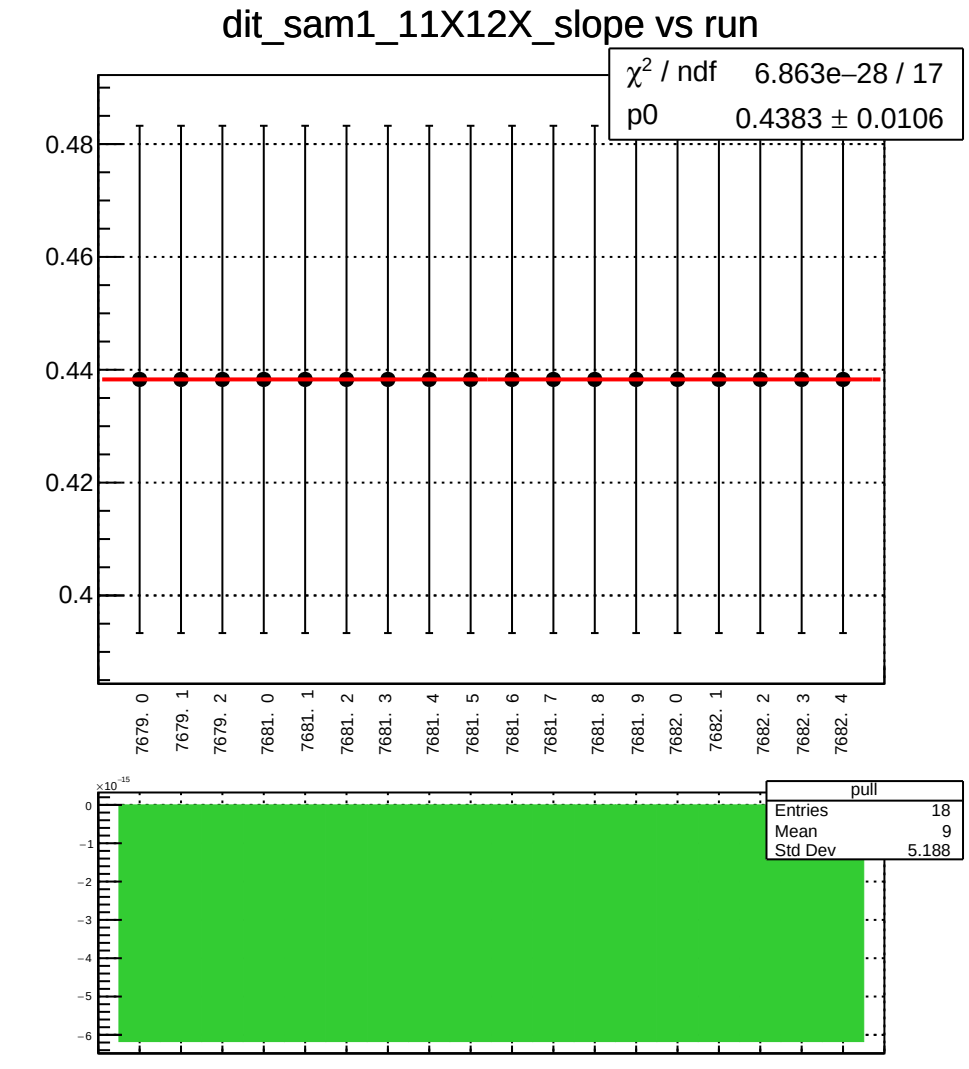

dit_atr2_4eY_slope vs run
χ² / ndf 1.137e−26 / 17
p0 130.1 ± 0.5332
132
131
130
129
128
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
×10⁻¹⁵
0
−5
−10
−15
−20
−25
pull
Entries 18
Mean 9
Std Dev 5.188

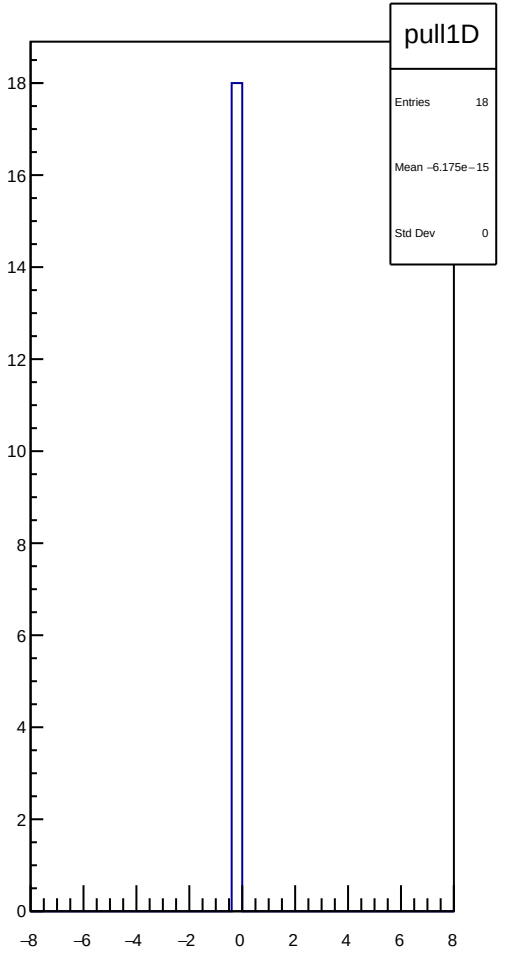

pull1D
Entries 18
Mean −2.513e−14
Std Dev 6.696e−22
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

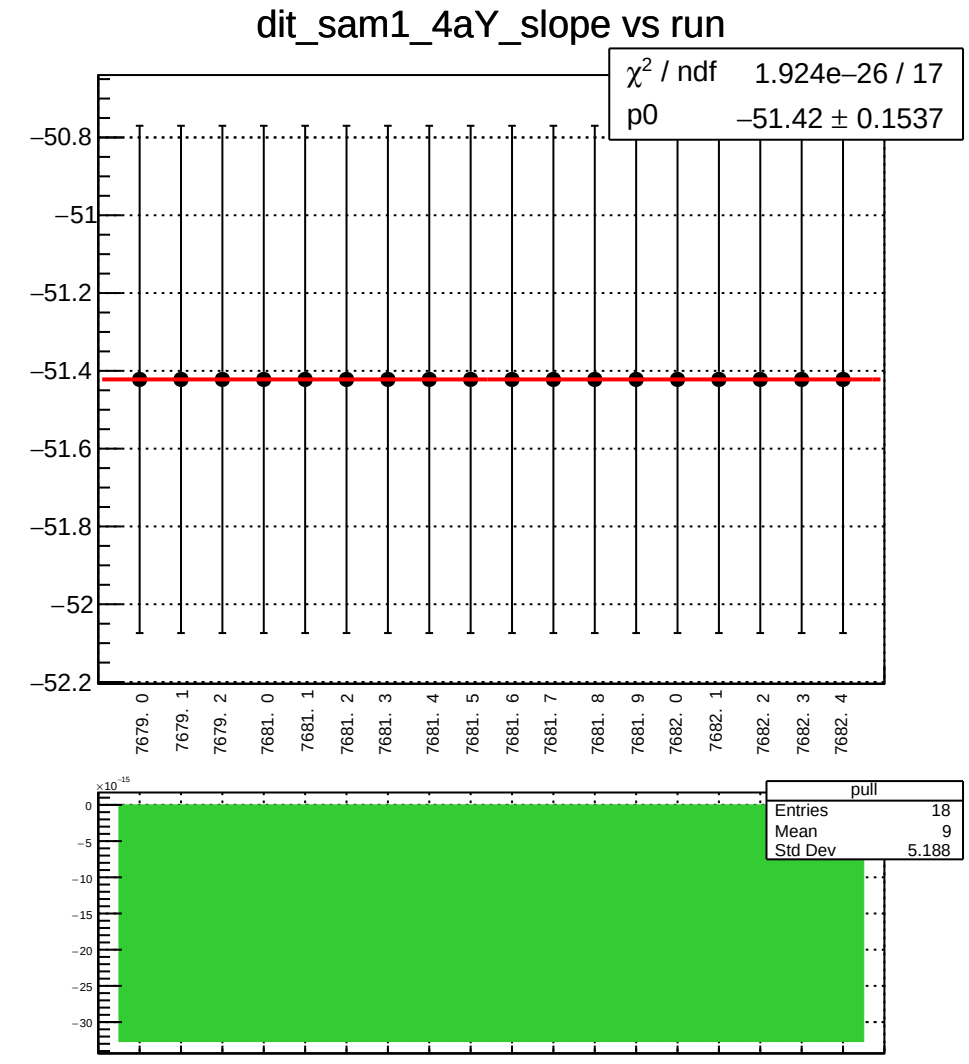

dit_sam1_4aX_slope vs run
χ² / ndf 0 / 17
p0 0.5754 ± 0.06806
0.9
0.8
0.7
0.6
0.5
0.4
0.3
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

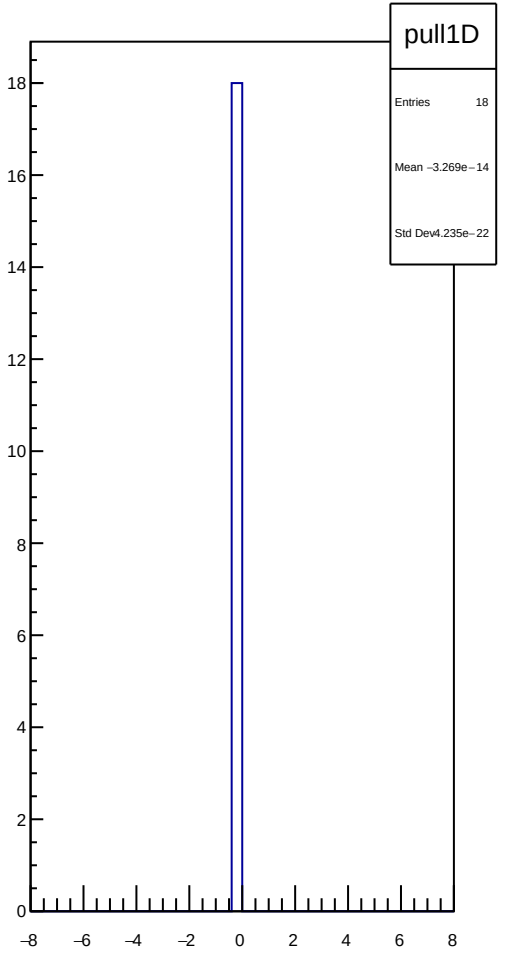

pull1D
Entries 18
Mean 0
Std Dev 0
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

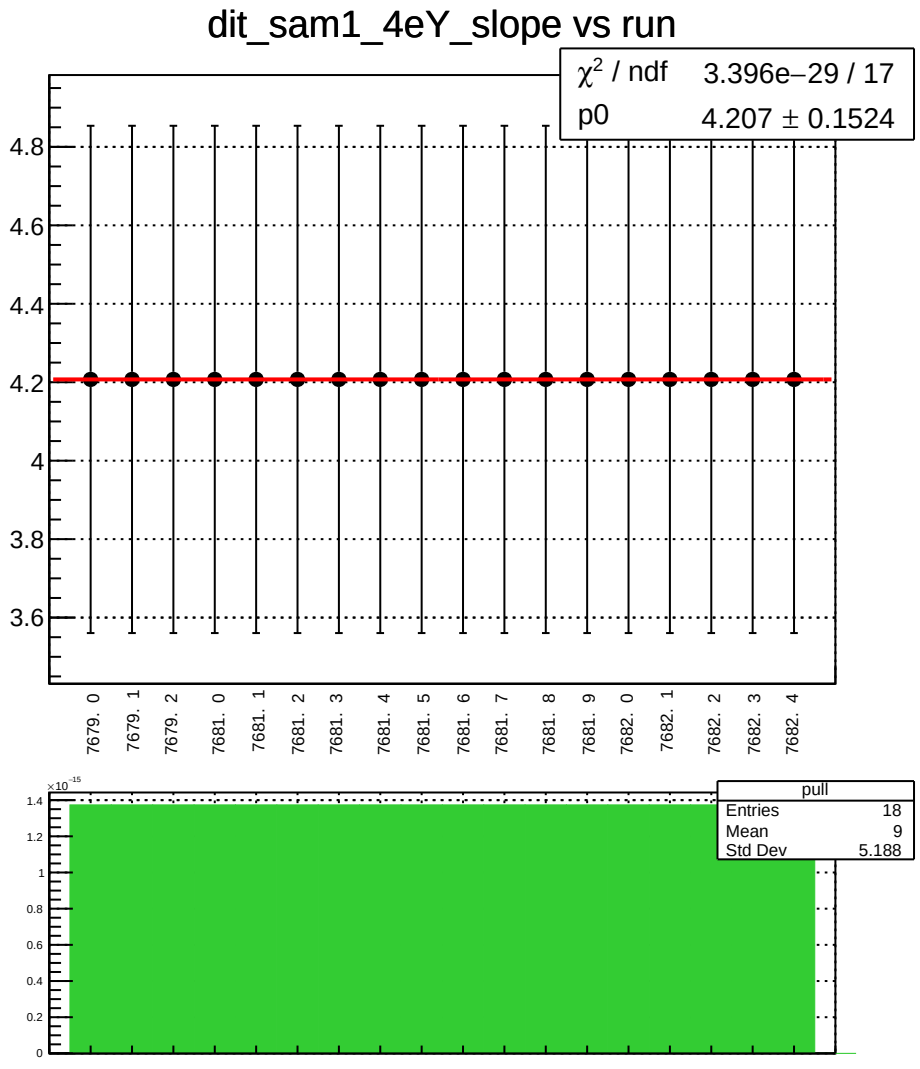

dit_sam1_4eX_slope vs run
χ² / ndf 2.084e−27 / 17
p0 −14.89 ± 0.07782
−14.5
−14.6
−14.7
−14.8
−14.9
−15
−15.1
−15.2
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
×10⁻¹⁵
pull
Entries 18
Mean 9
Std Dev 5.188
pull1D
Entries 18
Mean 1.076e−14
Std Dev 3.962e−22

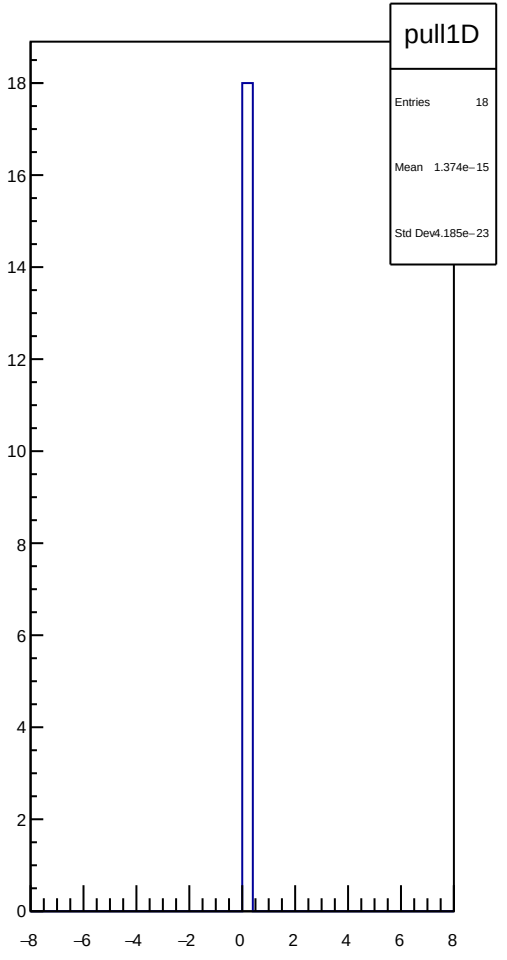

dit_sam1_11X12X_slope vs run
χ² / ndf 6.863e−28 / 17
p0 0.4383 ± 0.0106
0.48
0.46
0.44
0.42
0.4
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
×10⁻¹⁵
0
−1
−2
−3
−4
−5
−6
pull
Entries 18
Mean 9
Std Dev 5.188

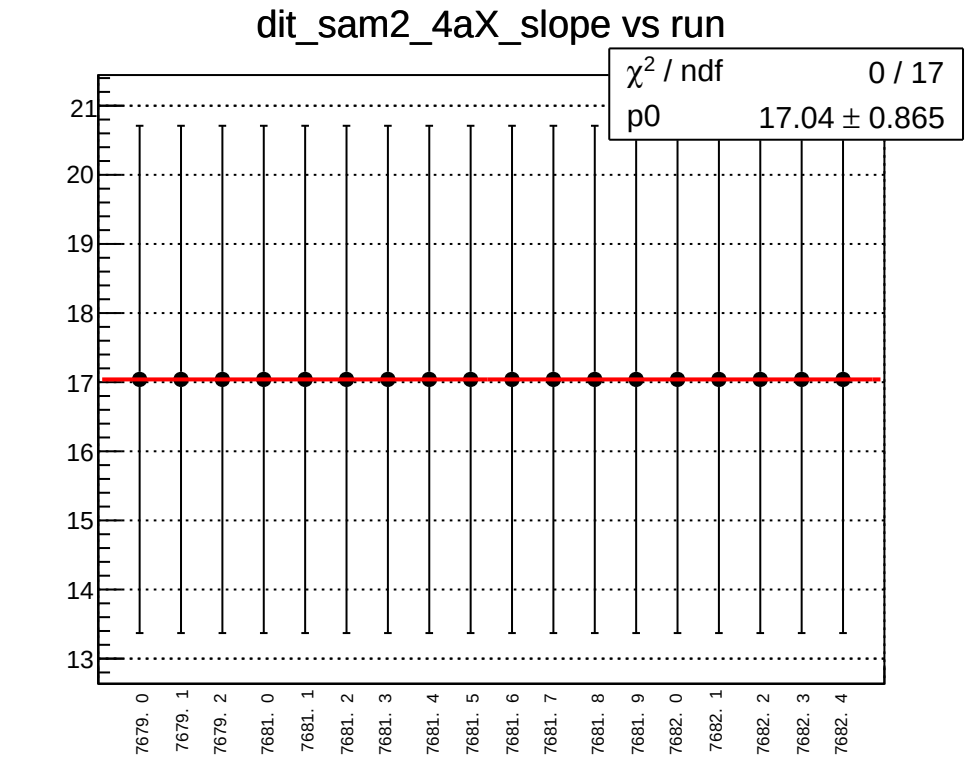

pull1D
Entries 18
Mean −6.175e−15
Std Dev 0
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

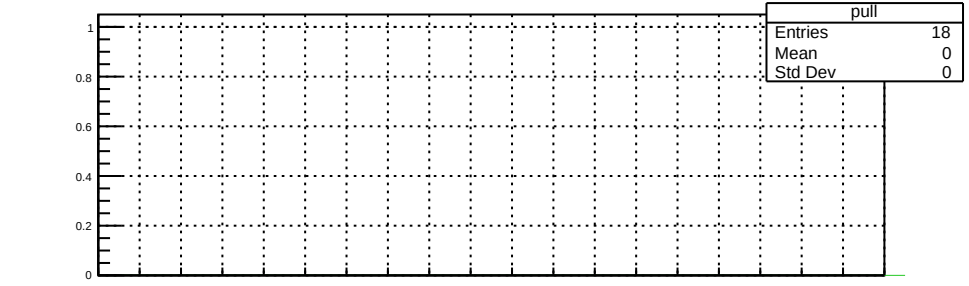

dit_sam1_4aY_slope vs run
χ² / ndf 1.924e−26 / 17
p0 −51.42 ± 0.1537
−50.8
−51
−51.2
−51.4
−51.6
−51.8
−52
−52.2
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
×10⁻¹⁵
0
−5
−10
−15
−20
−25
−30
pull
Entries 18
Mean 9
Std Dev 5.188

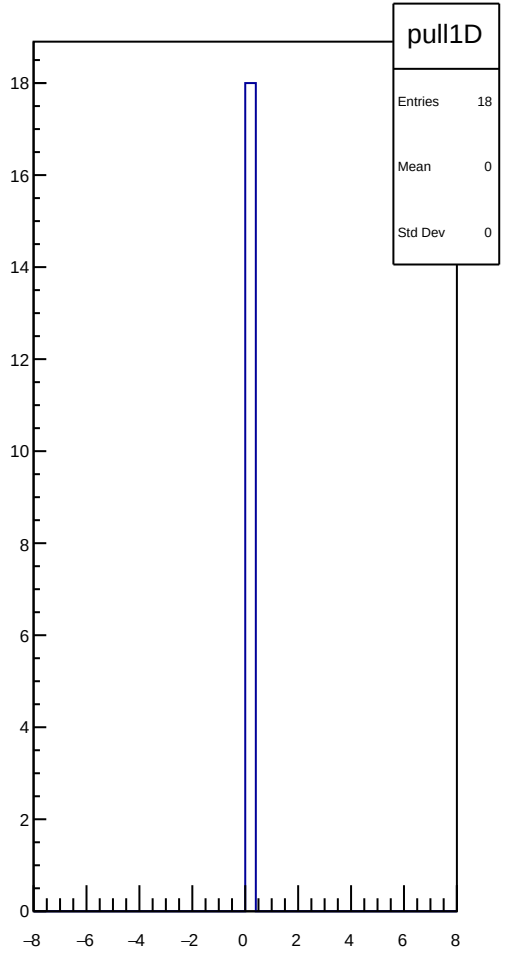

pull1D
Entries 18
Mean −3.269e−14
Std Dev4.235e−22
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

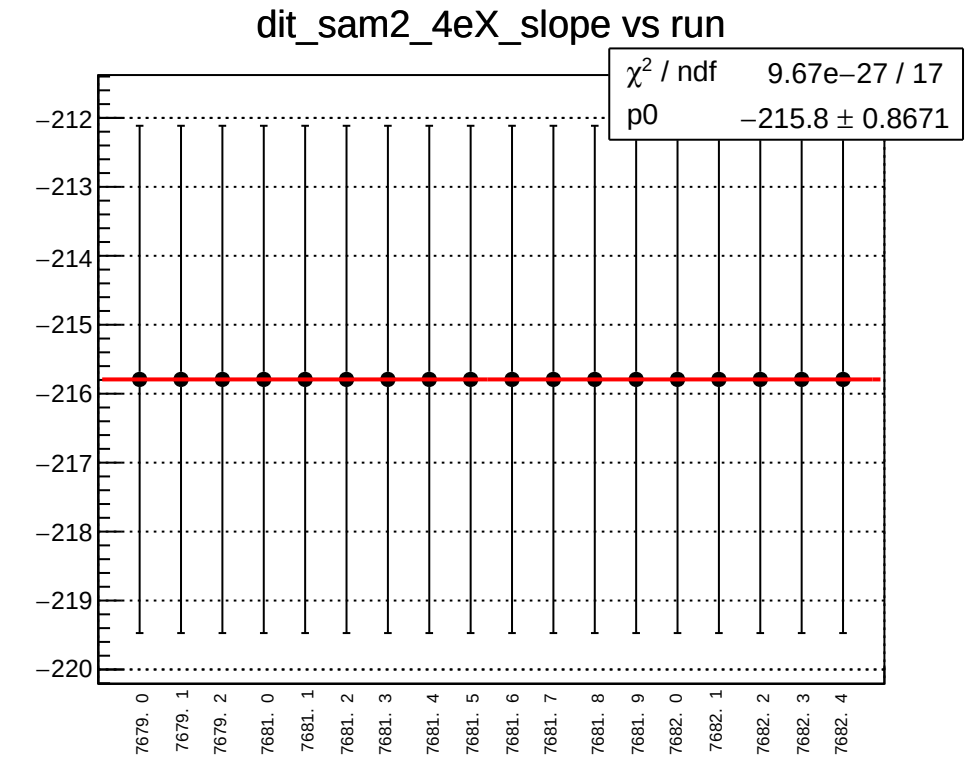

dit_sam1_4eY_slope vs run
χ² / ndf 3.396e−29 / 17
p0 4.207 ± 0.1524
4.8
4.6
4.4
4.2
4
3.8
3.6
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
×10⁻¹⁵
1.4
1.2
1
0.8
0.6
0.4
0.2
0
pull
Entries 18
Mean 9
Std Dev 5.188

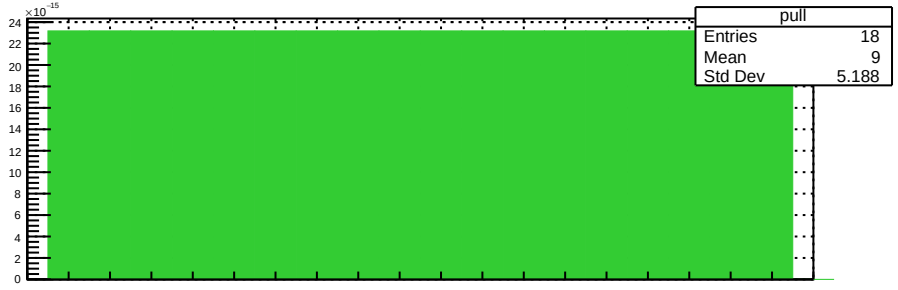

pull1D
Entries 18
Mean 1.374e−15
Std Dev4.185e−23
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

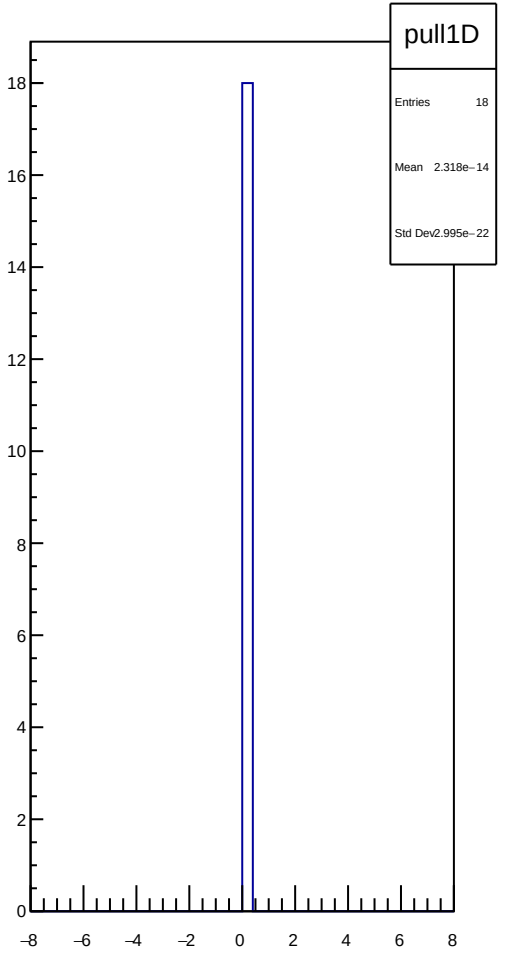

dit_sam2_4aX_slope vs run
χ² / ndf 0 / 17
p0 17.04 ± 0.865
21
20
19
18
17
16
15
14
13
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

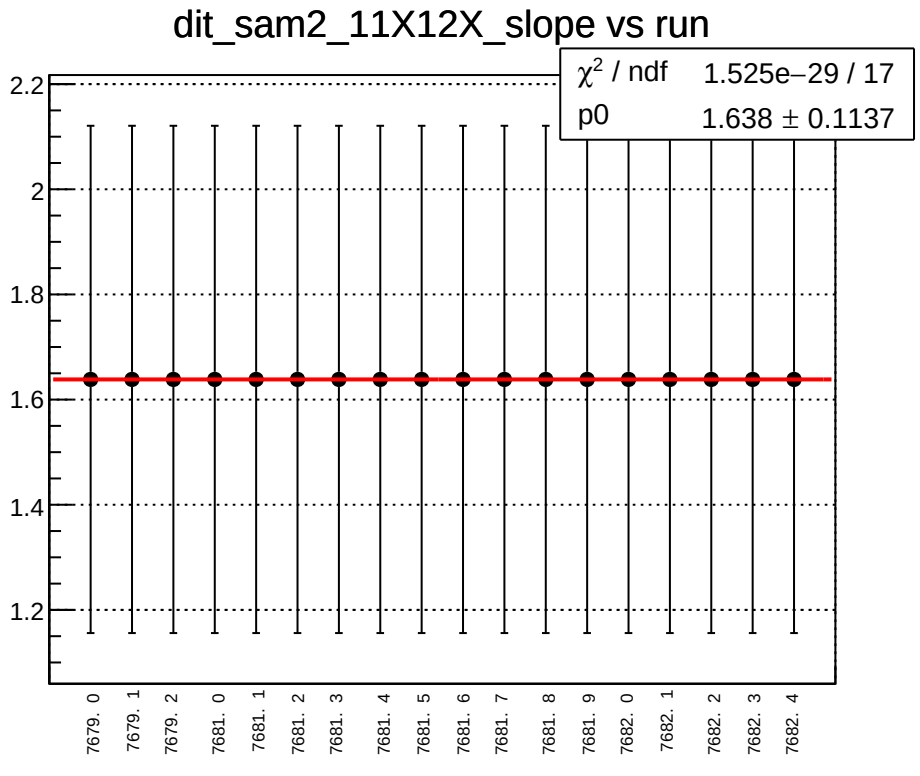

pull
Entries 18
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

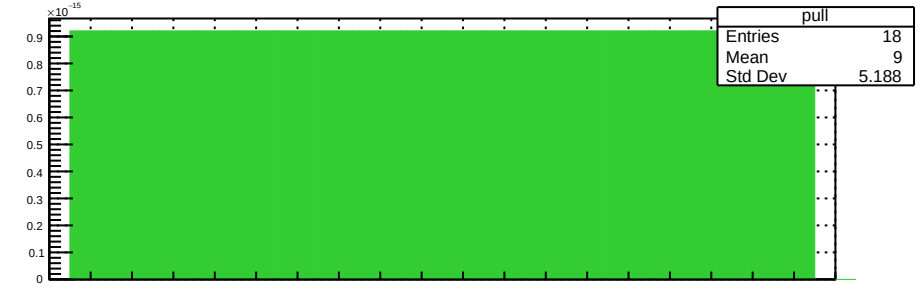

pull1D
Entries 18
Mean 0
Std Dev 0
18
16
14
12
10
8
6
4
2
0
–8
–6
–4
–2
0
2
4
6
8

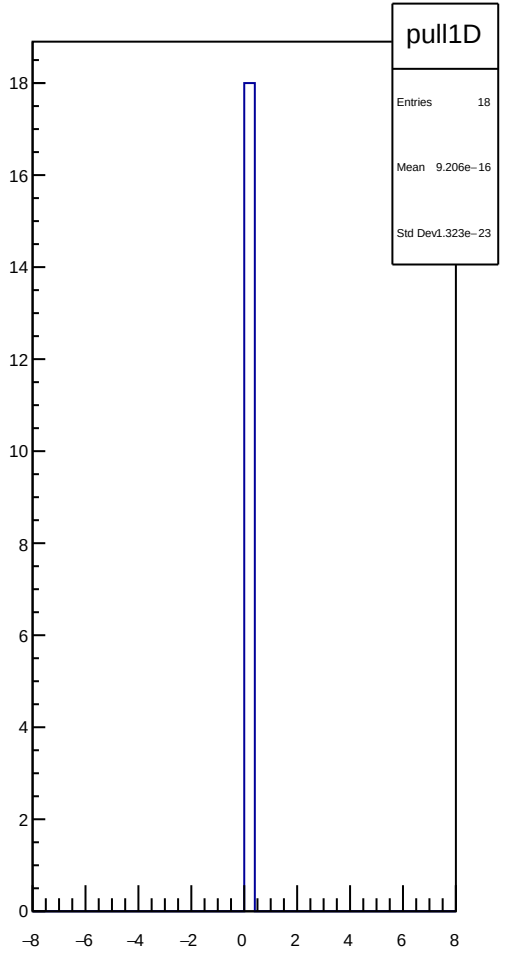

dit_sam2_4eX_slope vs run
χ² / ndf 9.67e−27 / 17
p0 −215.8 ± 0.8671
−212
−213
−214
−215
−216
−217
−218
−219
−220
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

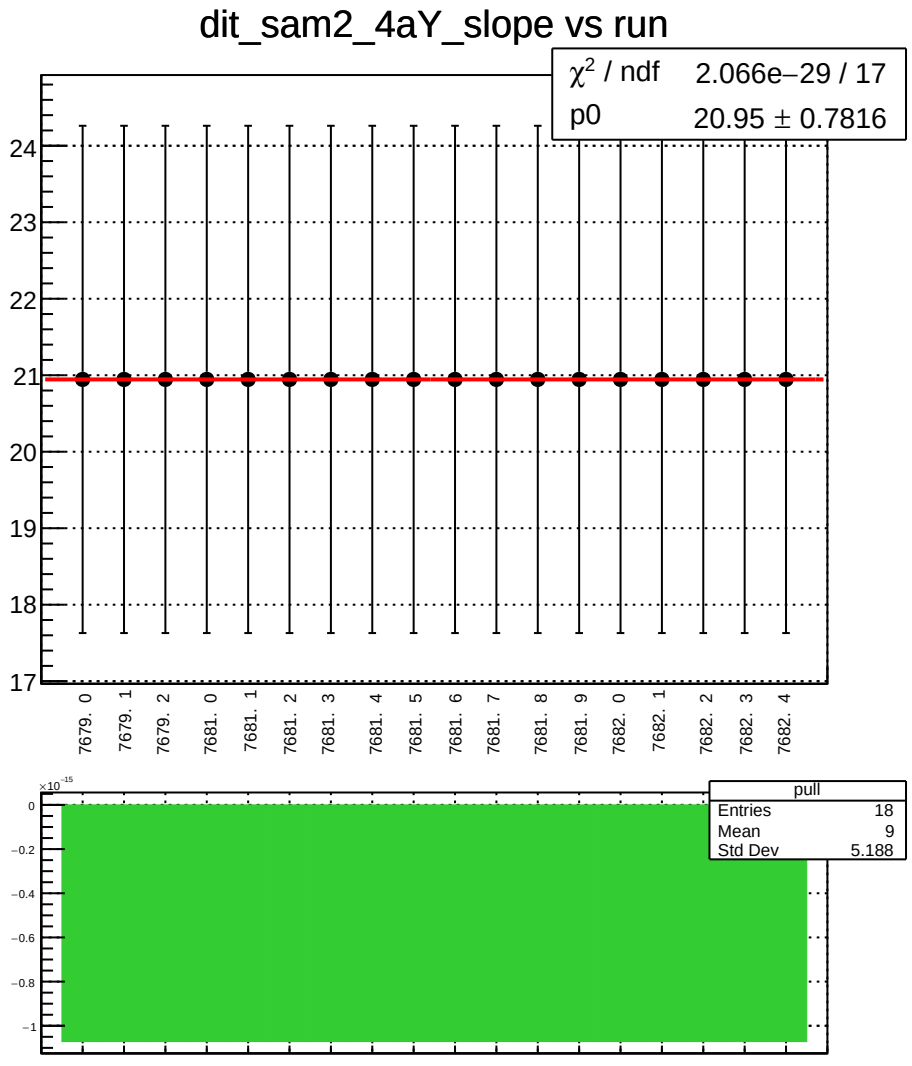

×10⁻¹⁵
pull
Entries 18
Mean 9
Std Dev 5.188

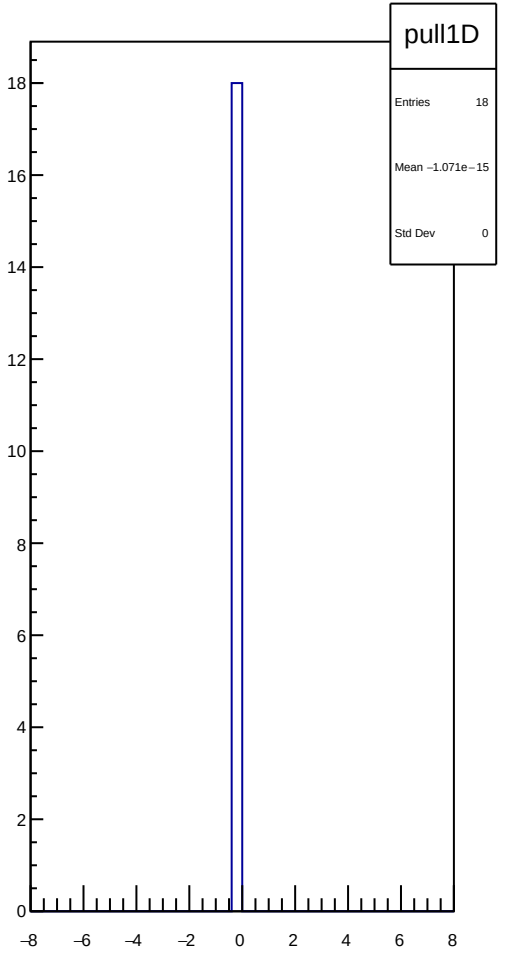

pull1D
Entries 18
Mean 2.318e−14
Std Dev2.995e−22

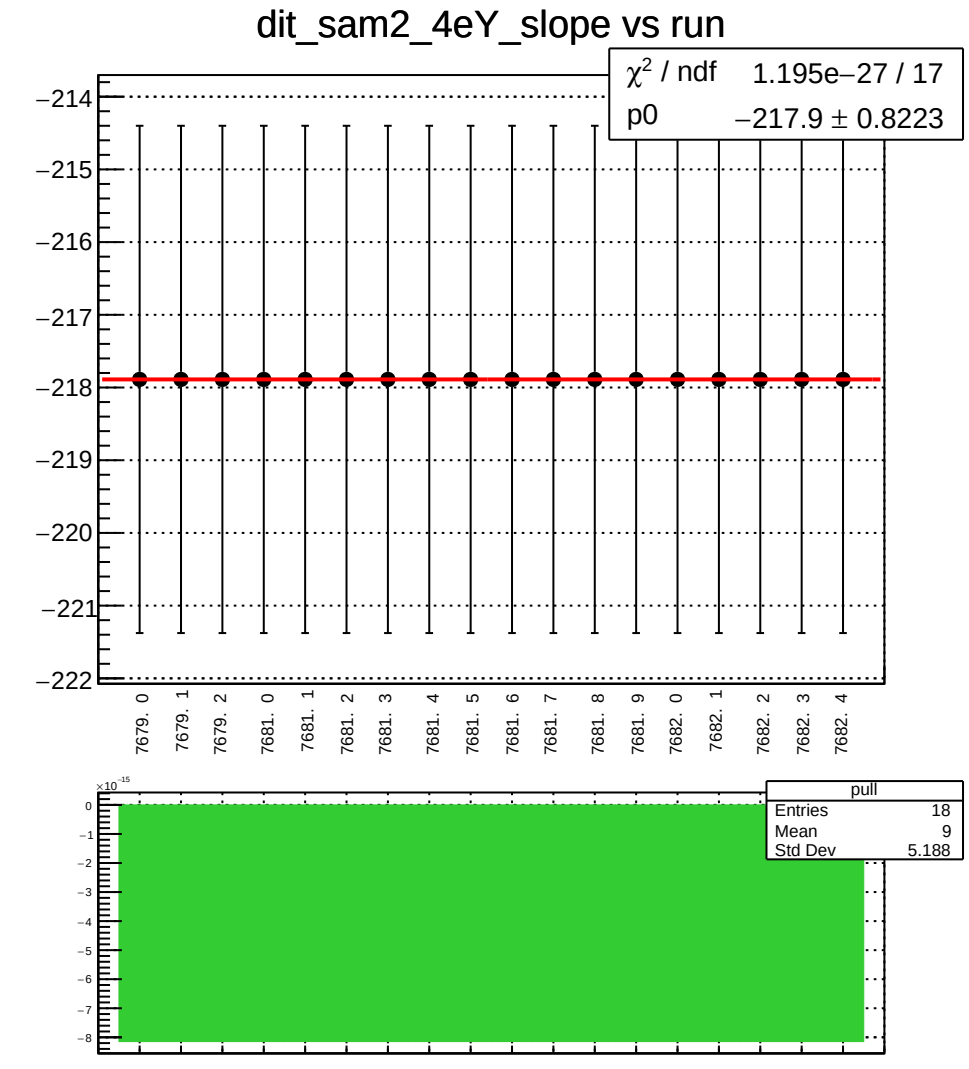

dit_sam2_11X12X_slope vs run
χ² / ndf 1.525e−29 / 17
p0 1.638 ± 0.1137
2.2
2
1.8
1.6
1.4
1.2
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

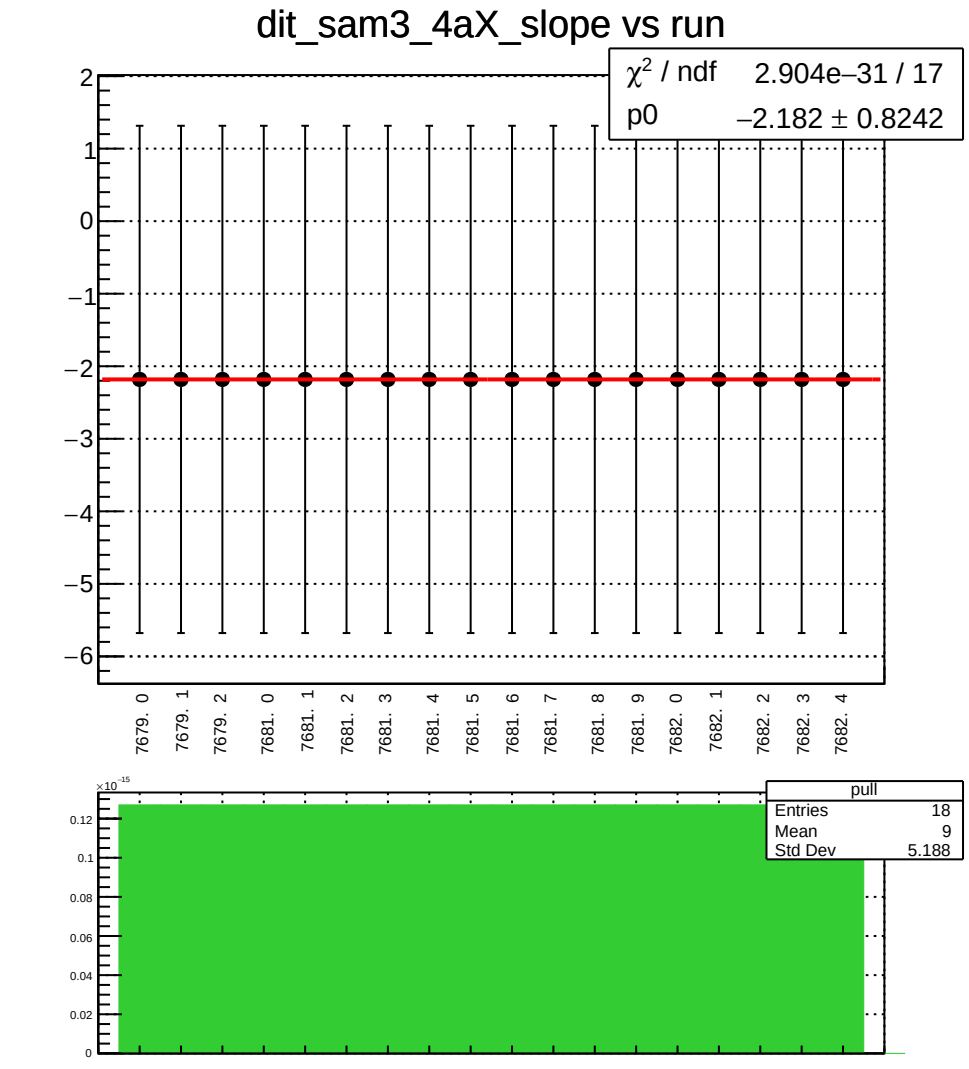

×10⁻¹⁵
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
pull
Entries 18
Mean 9
Std Dev 5.188

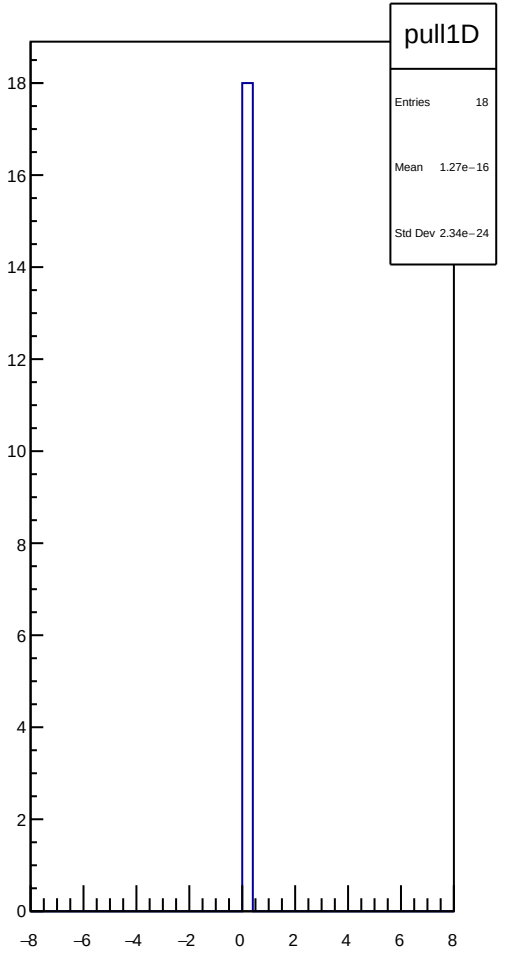

pull1D
Entries 18
Mean 9.206e−16
Std Dev1.323e−23
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

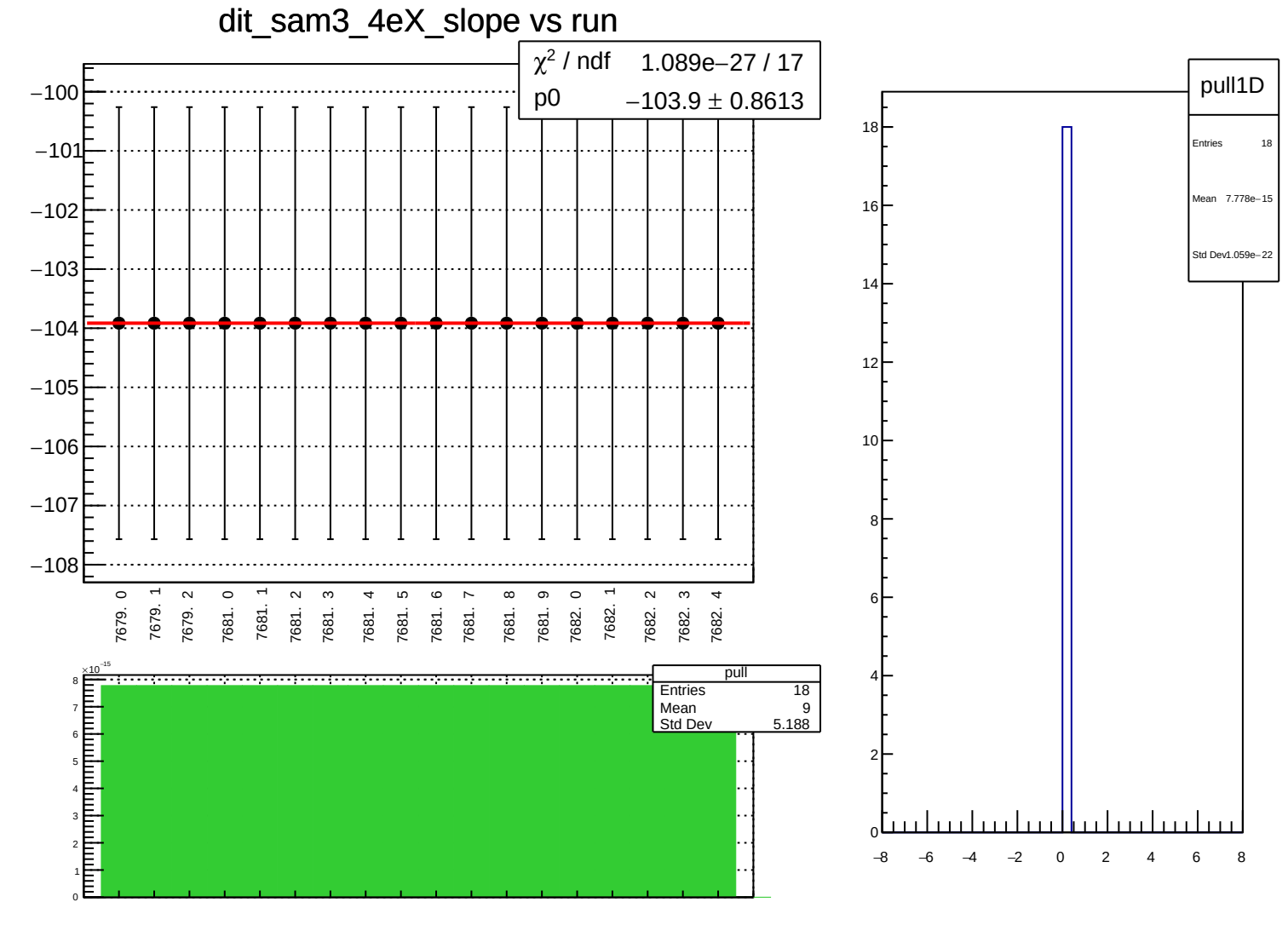

dit_sam2_4aY_slope vs run
χ² / ndf 2.066e−29 / 17
p0 20.95 ± 0.7816
24
23
22
21
20
19
18
17
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
×10⁻¹⁵
0
−0.2
−0.4
−0.6
−0.8
−1
pull
Entries 18
Mean 9
Std Dev 5.188

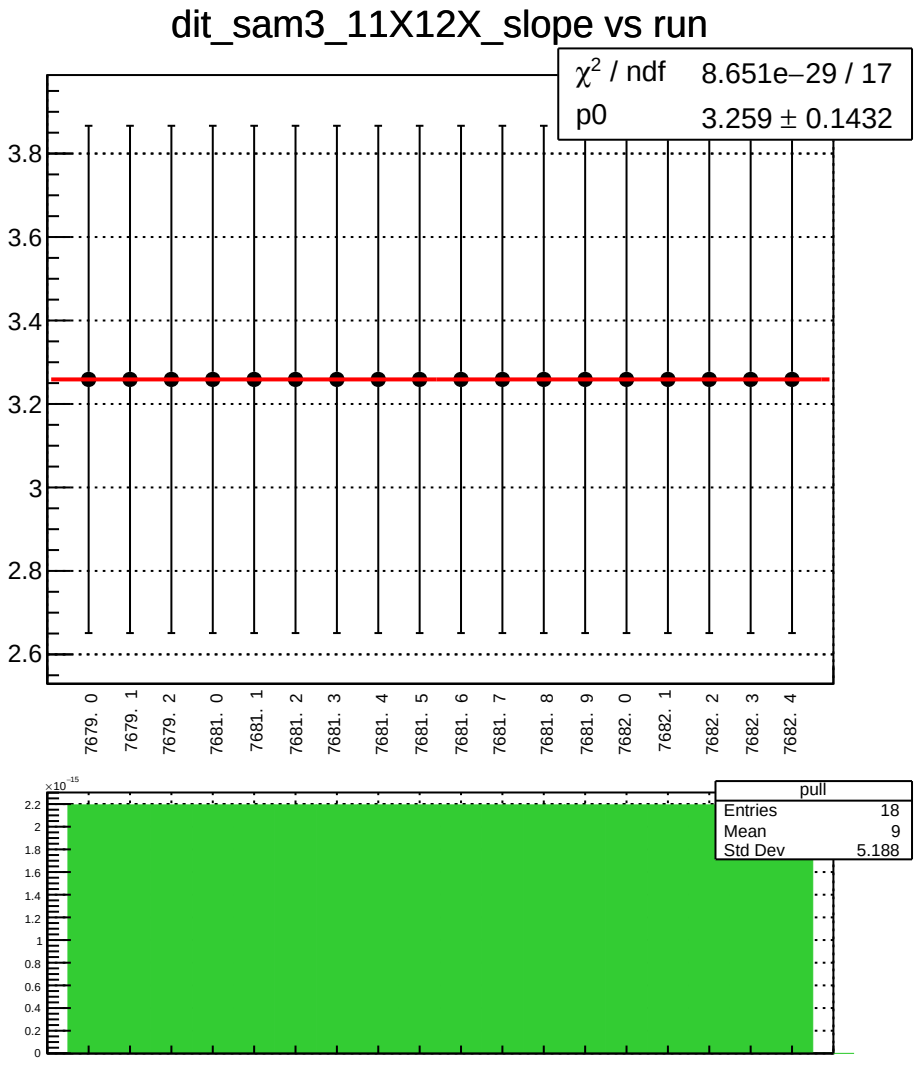

pull1D
Entries 18
Mean −1.071e−15
Std Dev 0
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

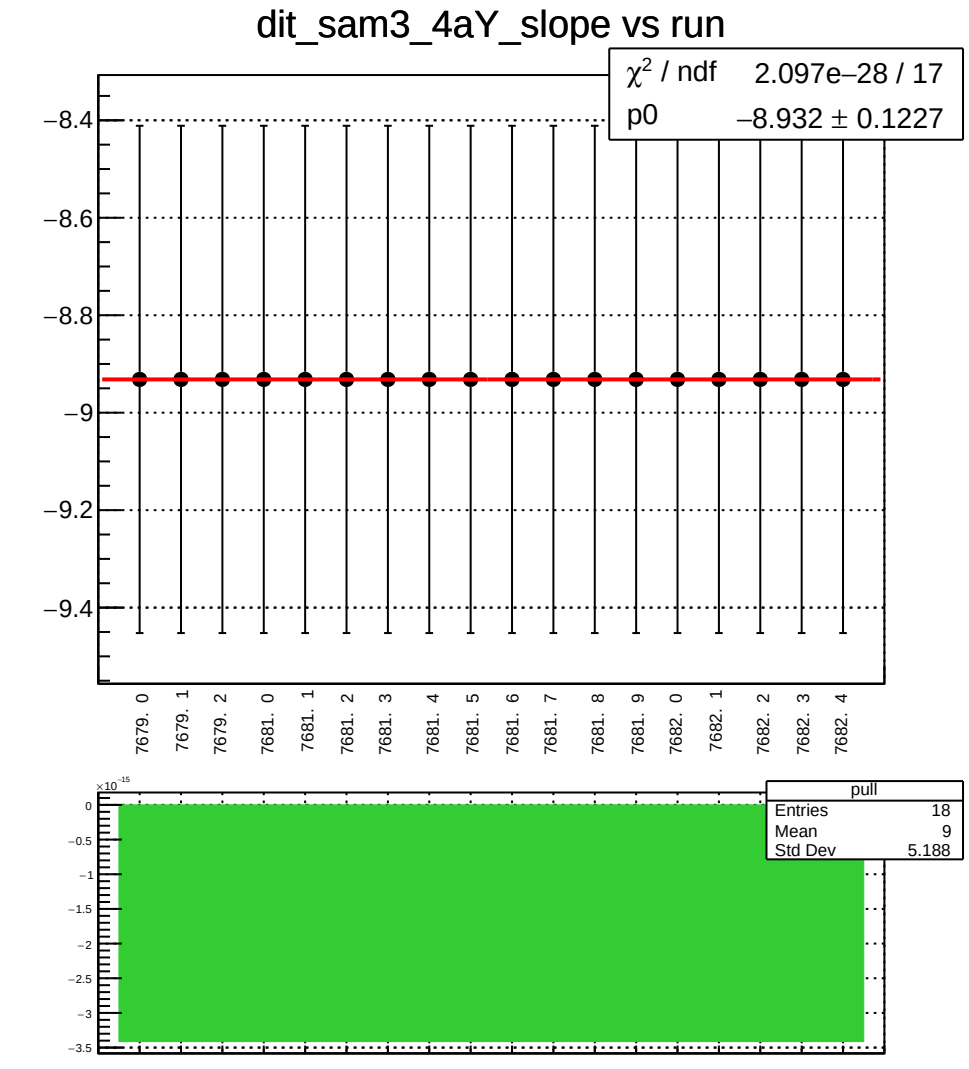

dit_sam2_4eY_slope vs run
χ² / ndf 1.195e−27 / 17
p0 −217.9 ± 0.8223
−214
−215
−216
−217
−218
−219
−220
−221
−222
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
×10⁻¹⁵
pull
Entries 18
Mean 9
Std Dev 5.188
pull1D
Entries 18
Mean −8.147e−15
Std Dev1.497e−22

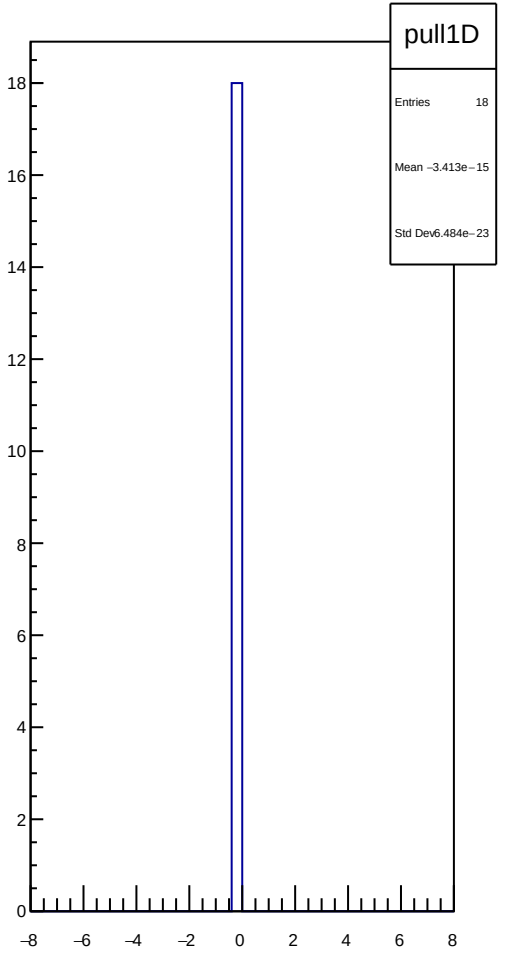

dit_sam3_4aX_slope vs run
χ² / ndf 2.904e−31 / 17
p0 −2.182 ± 0.8242
2
1
0
−1
−2
−3
−4
−5
−6
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
×10⁻¹⁵
0.12
0.1
0.08
0.06
0.04
0.02
0
pull
Entries 18
Mean 9
Std Dev 5.188

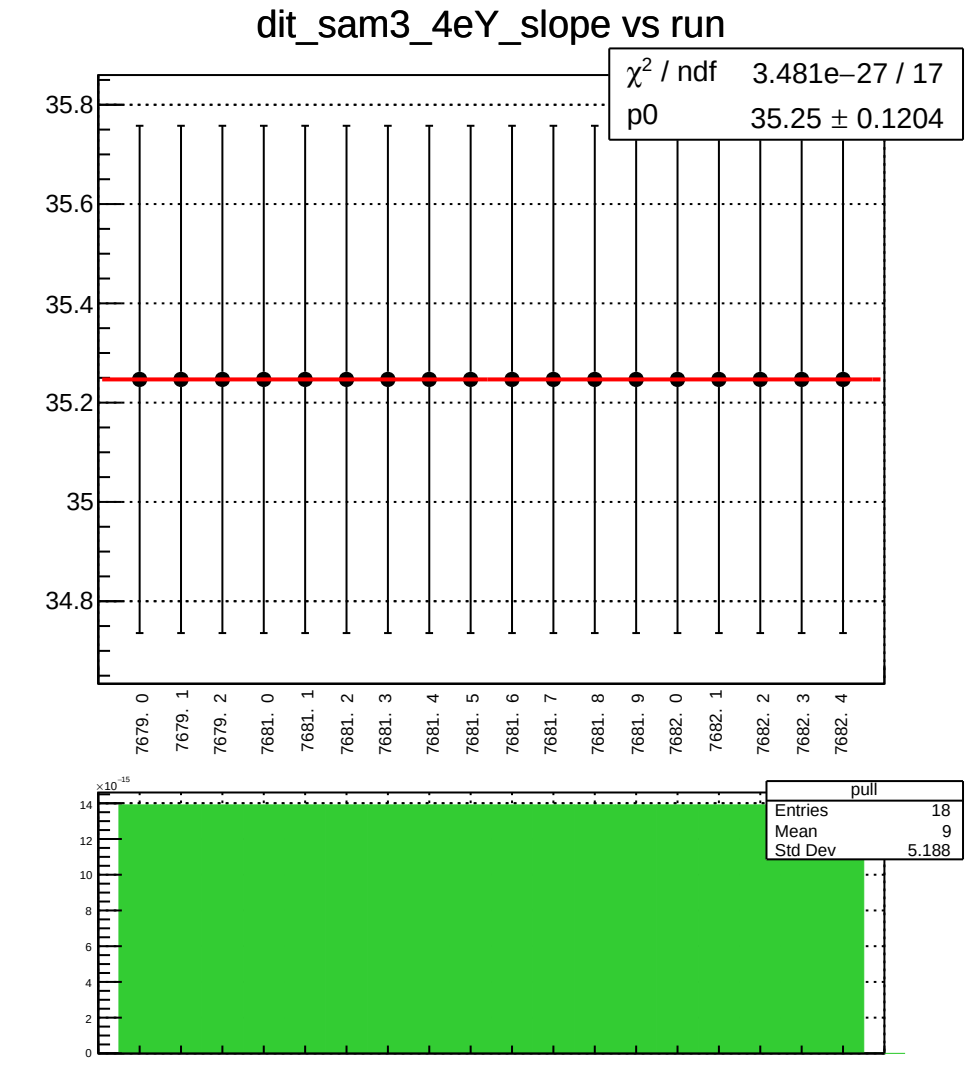

pull1D
Entries 18
Mean 1.27e−16
Std Dev 2.34e−24
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

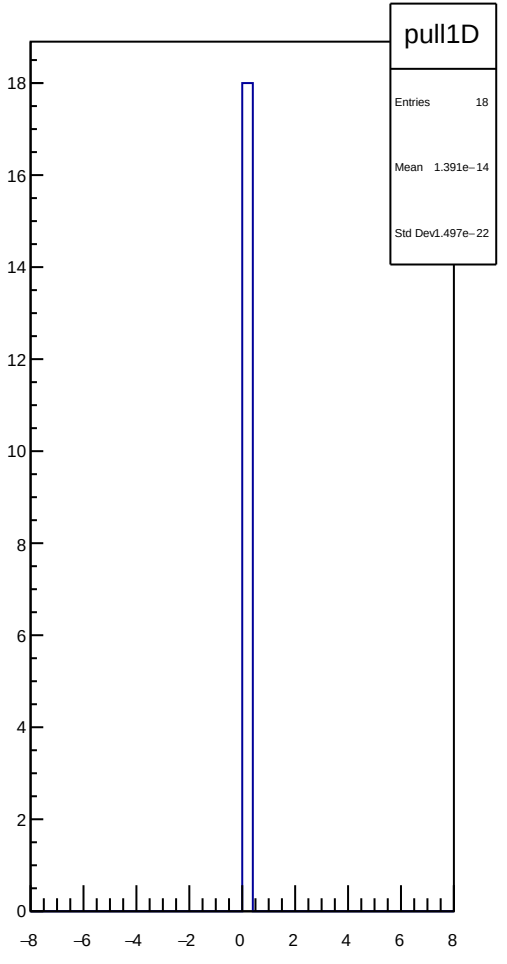

dit_sam3_4eX_slope vs run
χ² / ndf 1.089e−27 / 17
p0 −103.9 ± 0.8613
−100
−101
−102
−103
−104
−105
−106
−107
−108
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 9
Std Dev 5.188
pull1D
Entries 18
Mean 7.778e−15
Std Dev1.059e−22

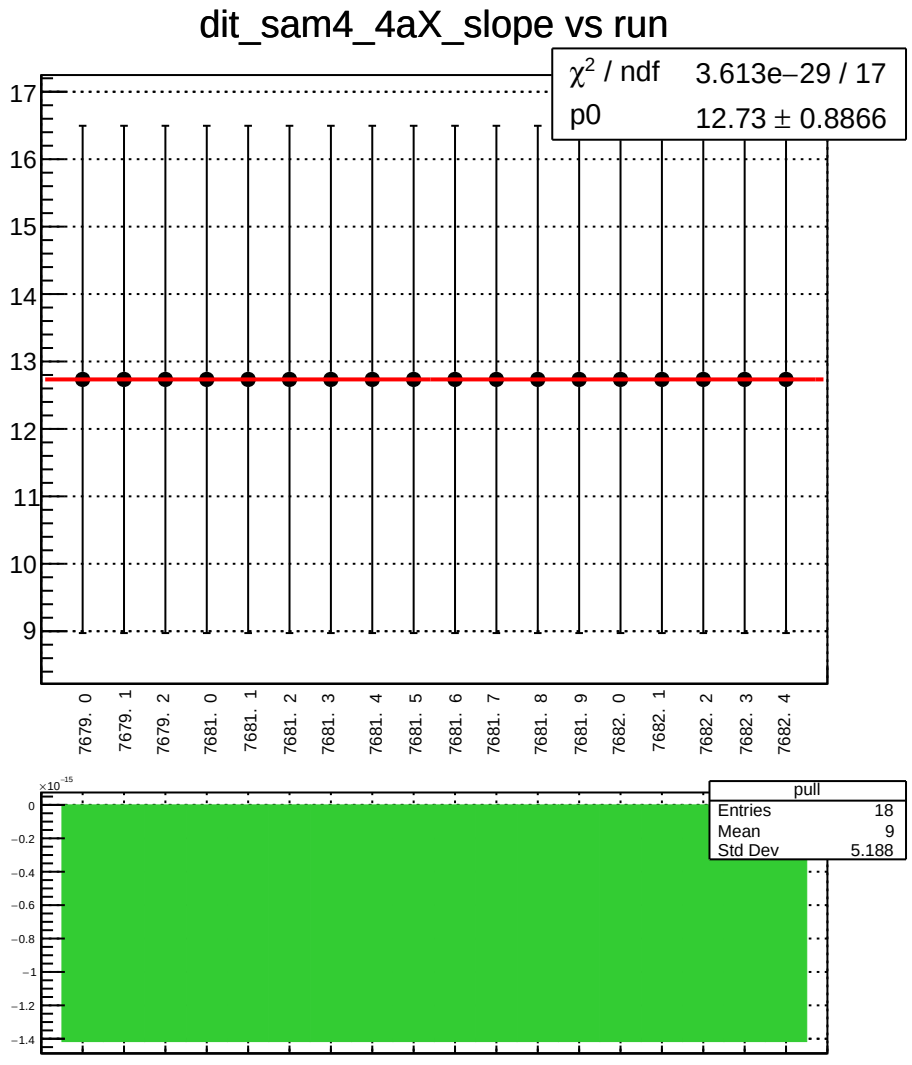

dit_sam3_11X12X_slope vs run
χ² / ndf 8.651e−29 / 17
p0 3.259 ± 0.1432
3.8
3.6
3.4
3.2
3
2.8
2.6
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
×10⁻¹⁵
pull
Entries 18
Mean 9
Std Dev 5.188
pull1D
Entries 18
Mean 2.192e−15
Std Dev 4.585e−23

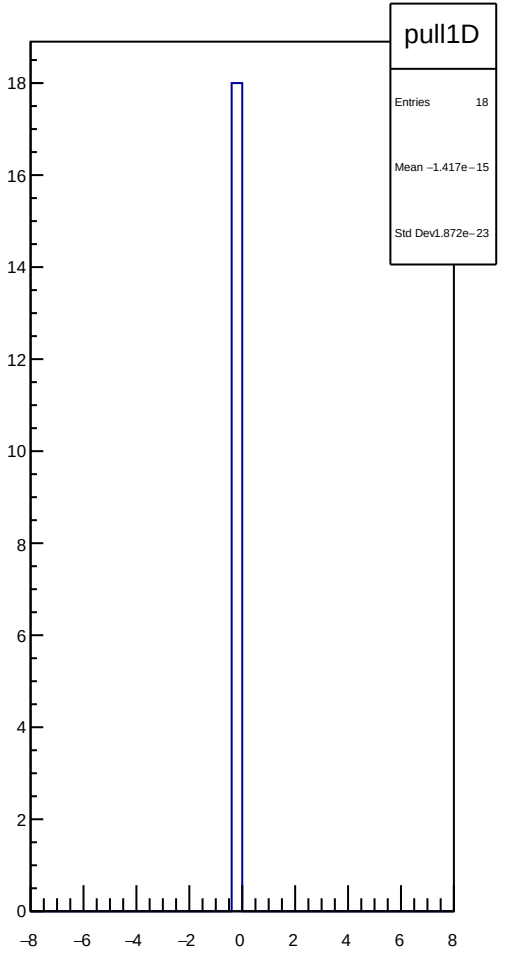

dit_sam3_4aY_slope vs run
χ² / ndf 2.097e−28 / 17
p0 −8.932 ± 0.1227
−8.4
−8.6
−8.8
−9
−9.2
−9.4
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
×10⁻¹⁵
0
−0.5
−1
−1.5
−2
−2.5
−3
−3.5
pull
Entries 18
Mean 9
Std Dev 5.188

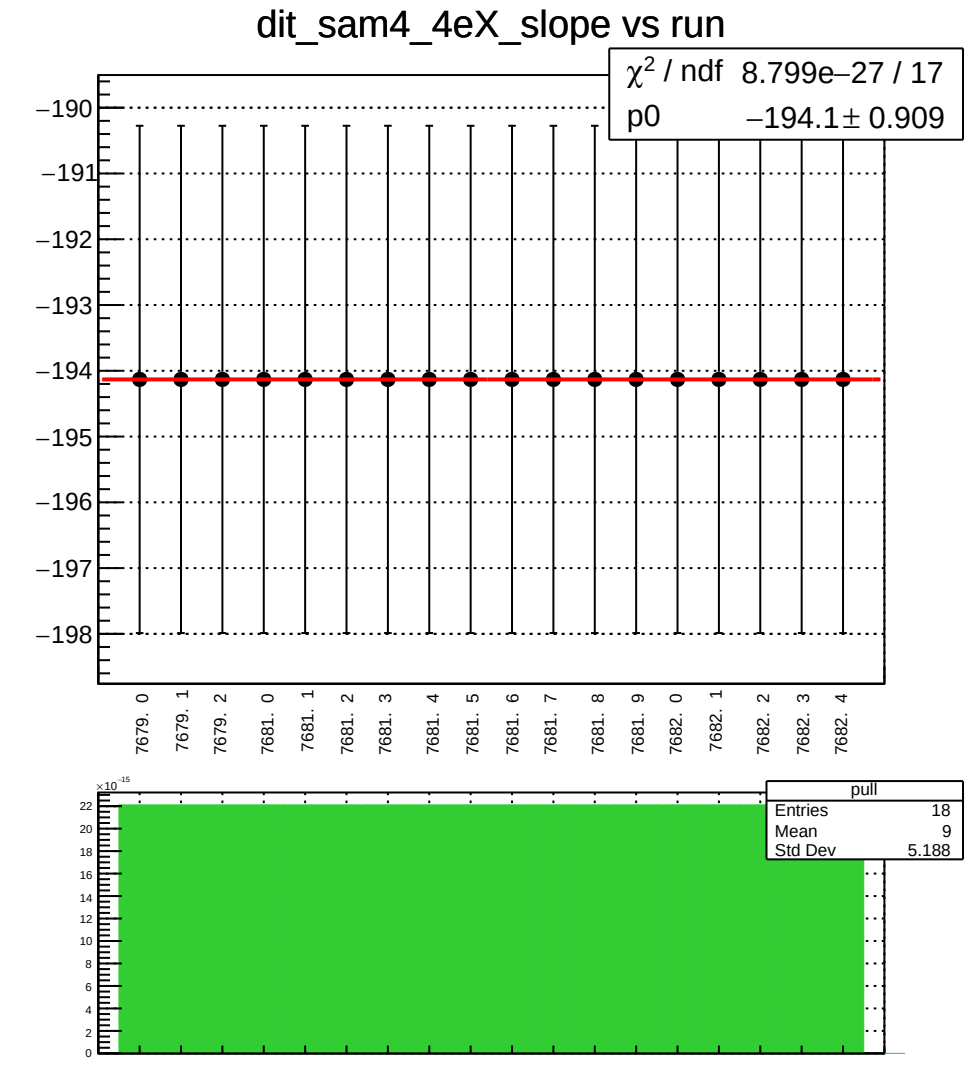

pull1D
Entries 18
Mean −3.413e−15
Std Dev 6.484e−23
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

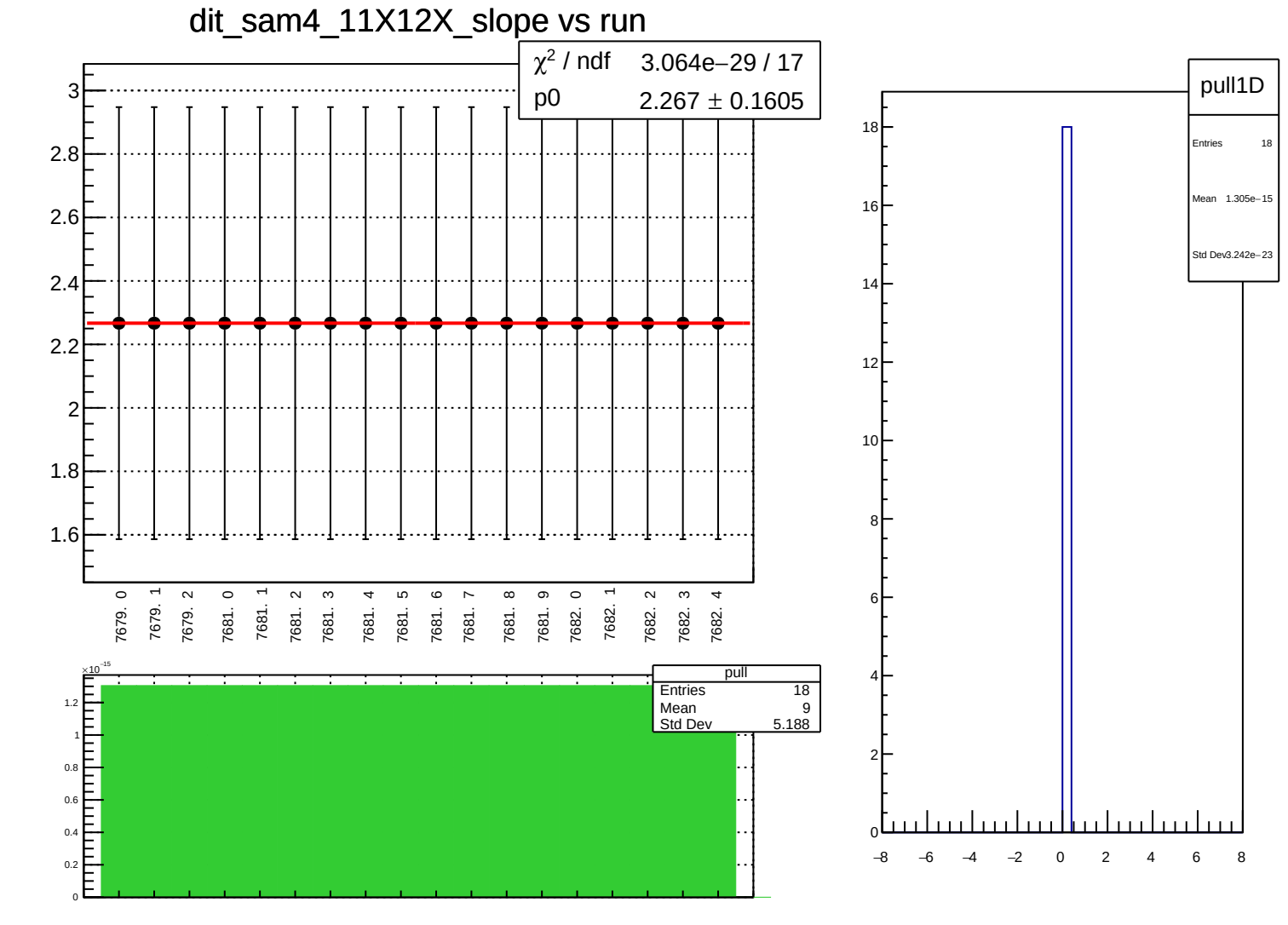

dit_sam3_4eY_slope vs run
χ² / ndf 3.481e−27 / 17
p0 35.25 ± 0.1204
35.8
35.6
35.4
35.2
35
34.8
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
×10⁻¹⁵
14
12
10
8
6
4
2
0
pull
Entries 18
Mean 9
Std Dev 5.188

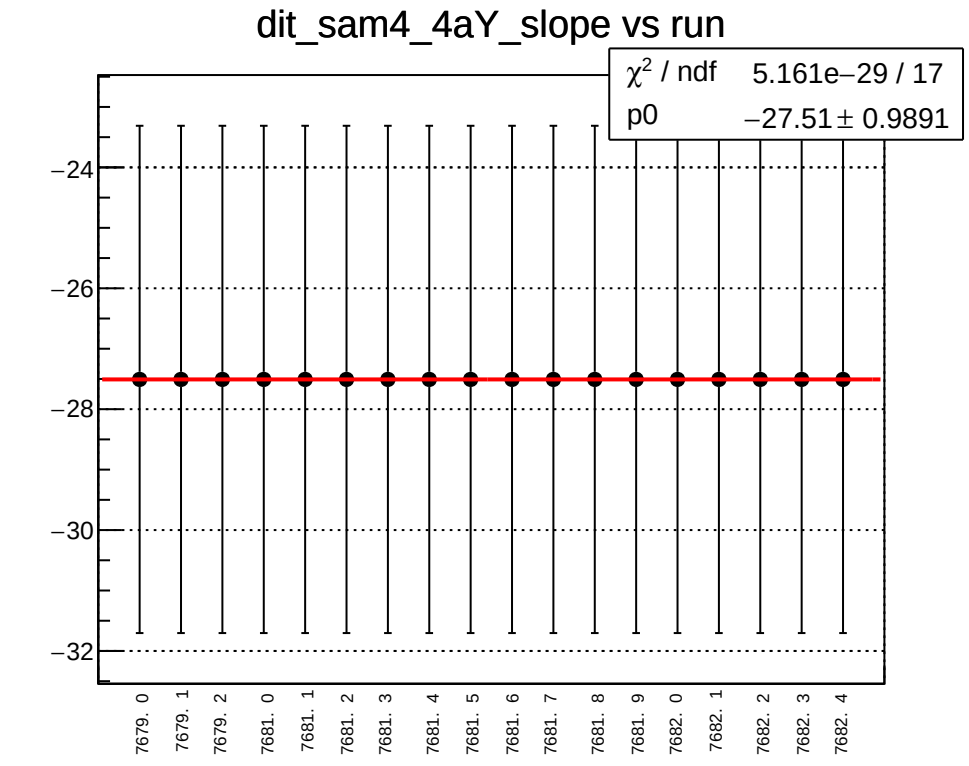

pull1D
Entries 18
Mean 1.391e−14
Std Dev1.497e−22
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

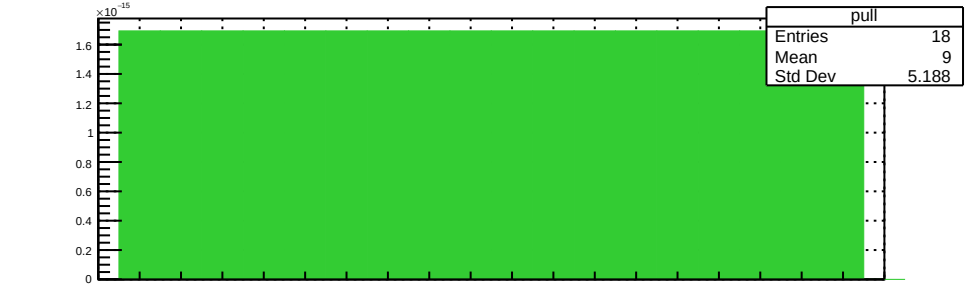

dit_sam4_4aX_slope vs run
χ² / ndf 3.613e−29 / 17
p0 12.73 ± 0.8866
17
16
15
14
13
12
11
10
9
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
×10⁻¹⁵
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4
pull
Entries 18
Mean 9
Std Dev 5.188

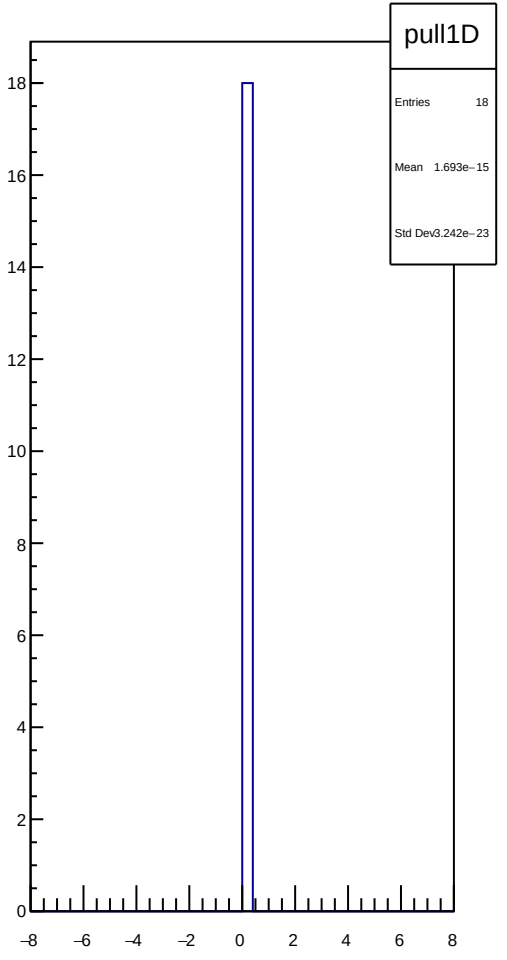

pull1D
Entries 18
Mean −1.417e−15
Std Dev1.872e−23
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

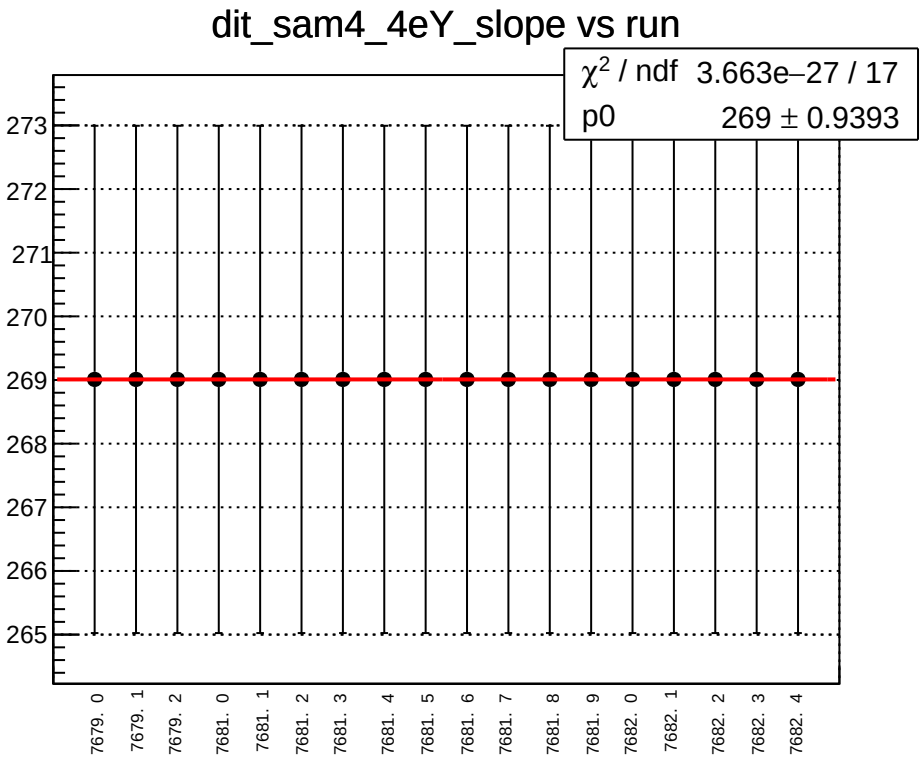

dit_sam4_4eX_slope vs run
χ² / ndf 8.799e−27 / 17
p0 −194.1± 0.909
−190
−191
−192
−193
−194
−195
−196
−197
−198
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
×10⁻¹⁵
pull
Entries 18
Mean 9
Std Dev 5.188
pull1D
Entries 18
Mean 2.211e−14
Std Dev 6.696e−22

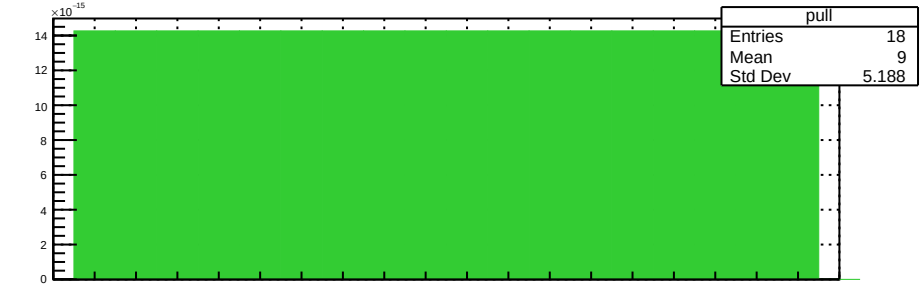

dit_sam4_11X12X_slope vs run
χ² / ndf 3.064e−29 / 17
p0 2.267 ± 0.1605
3
2.8
2.6
2.4
2.2
2
1.8
1.6
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
×10⁻¹⁵
1.2
1
0.8
0.6
0.4
0.2
0
pull
Entries 18
Mean 9
Std Dev 5.188
pull1D
Entries 18
Mean 1.305e−15
Std Dev3.242e−23
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

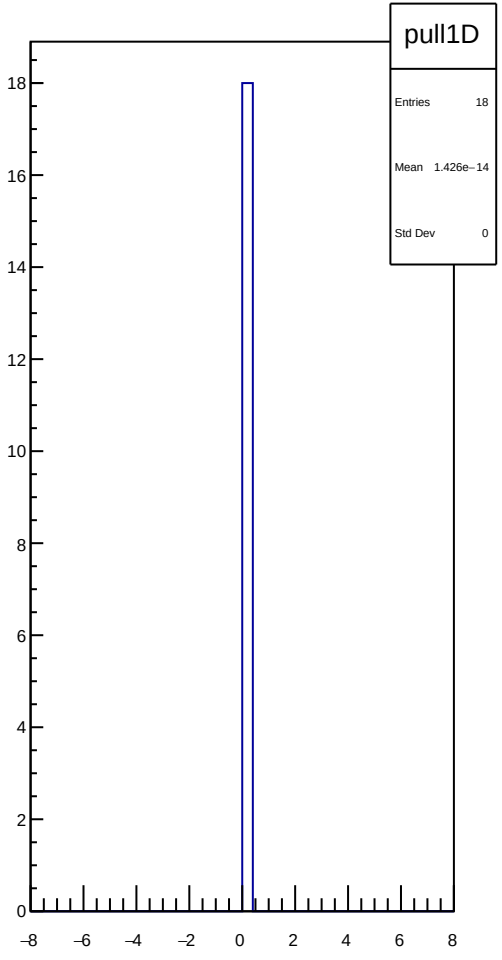

dit_sam4_4aY_slope vs run
χ² / ndf 5.161e−29 / 17
p0 −27.51 ± 0.9891
−24
−26
−28
−30
−32
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

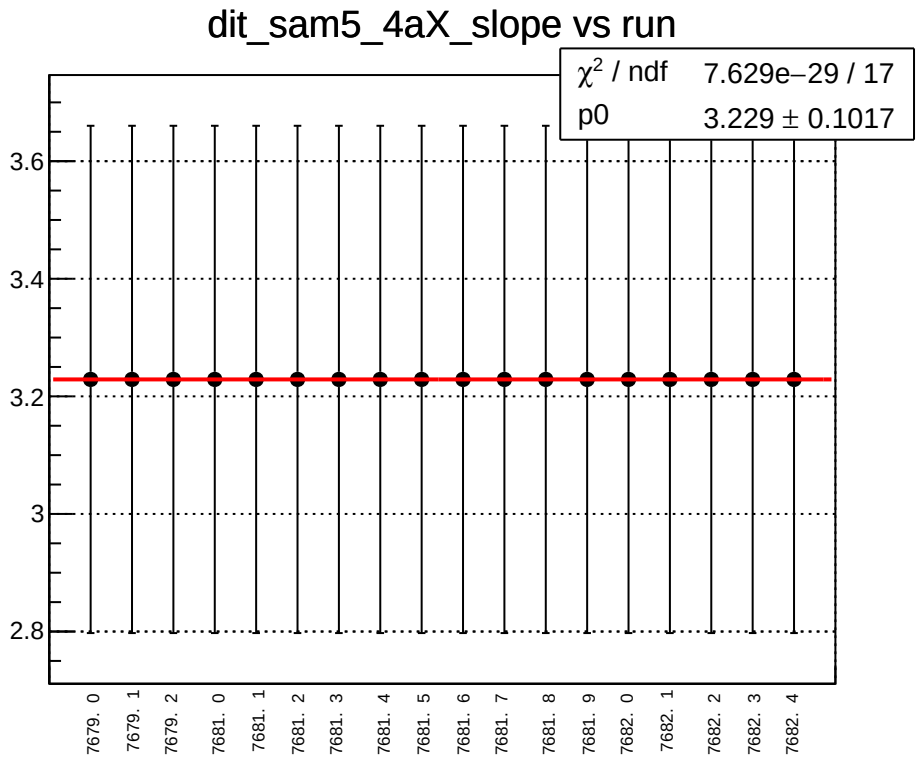

×10⁻¹⁵
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
pull
Entries 18
Mean 9
Std Dev 5.188

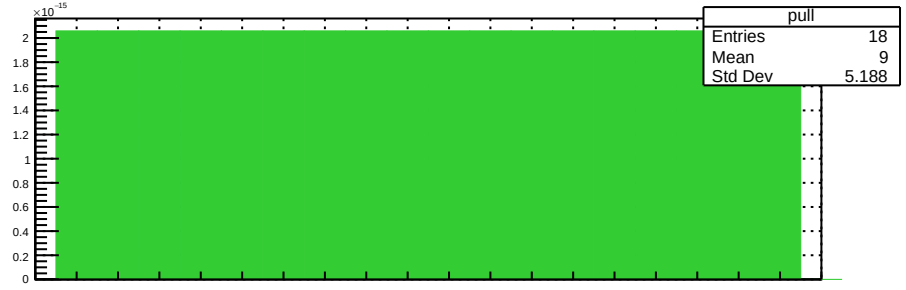

pull1D
Entries 18
Mean 1.693e−15
Std Dev3.242e−23
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

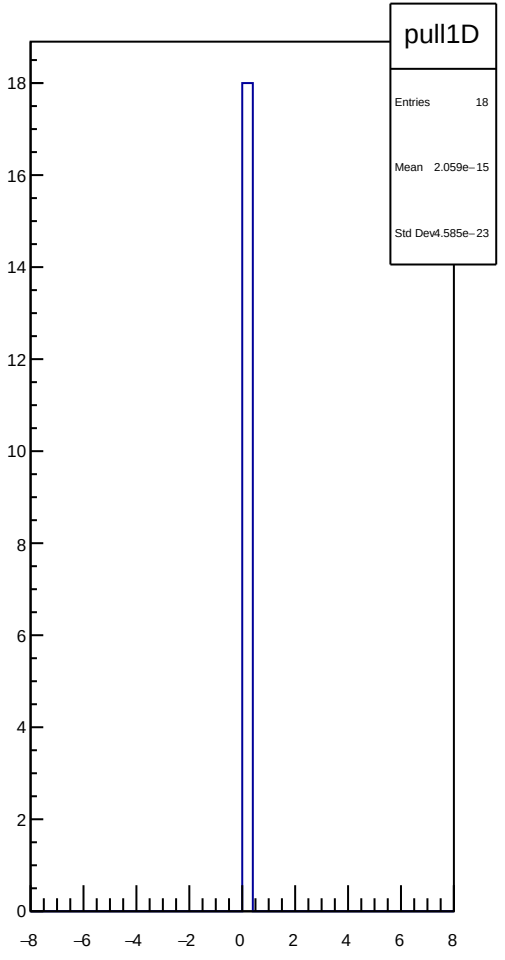

dit_sam4_4eY_slope vs run
χ² / ndf 3.663e−27 / 17
p0 269 ± 0.9393
273
272
271
270
269
268
267
266
265
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

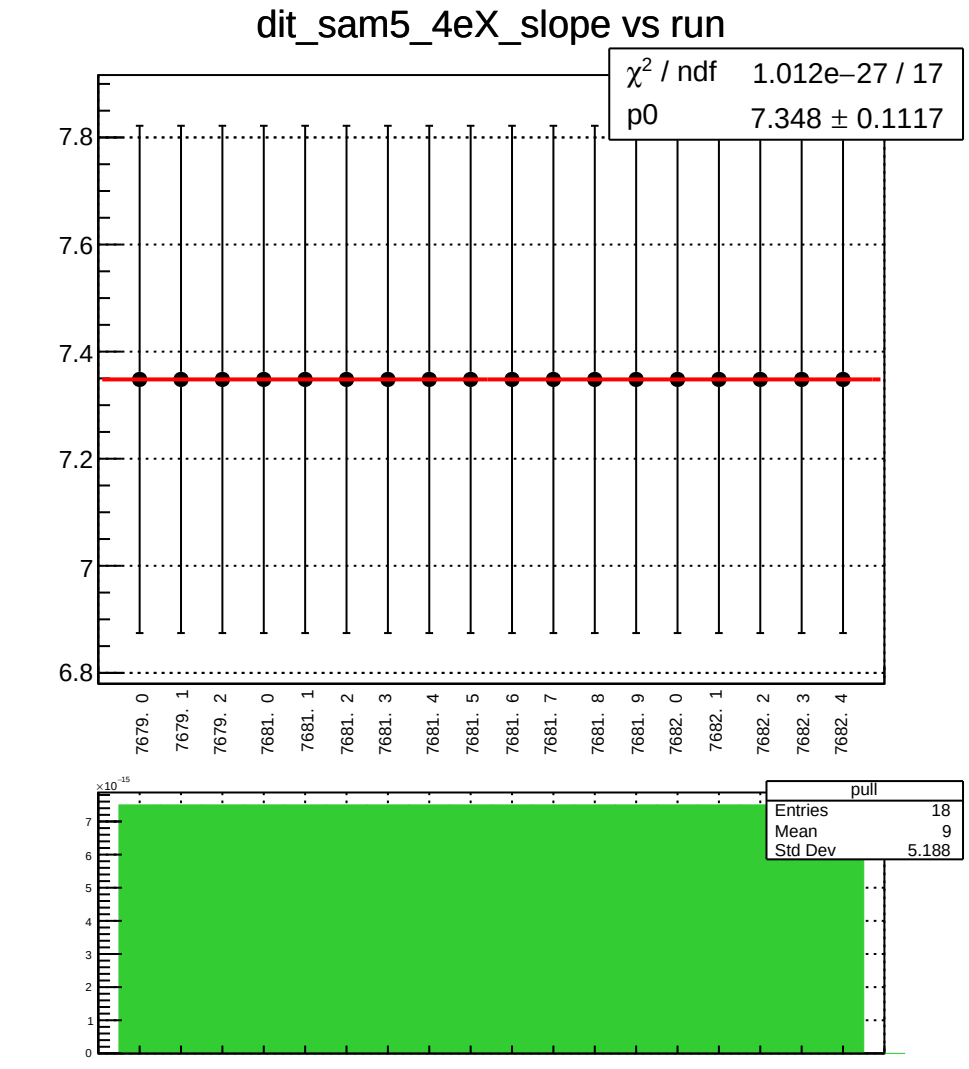

×10⁻¹⁵
14
12
10
8
6
4
2
0
pull
Entries 18
Mean 9
Std Dev 5.188

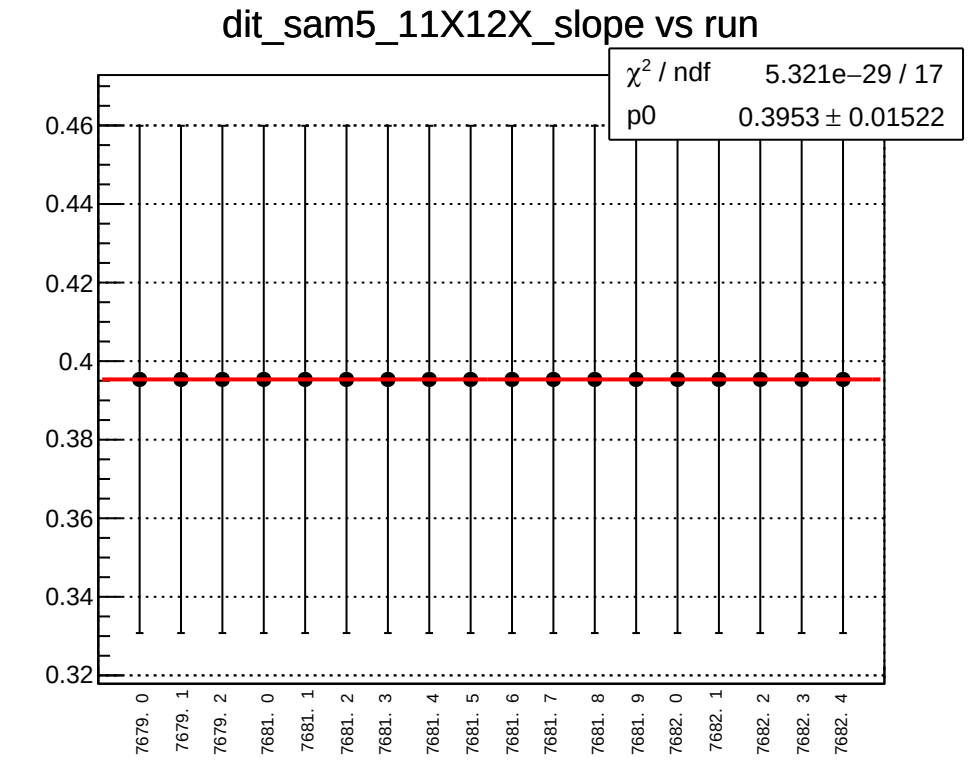

pull1D
Entries 18
Mean 1.426e−14
Std Dev 0
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

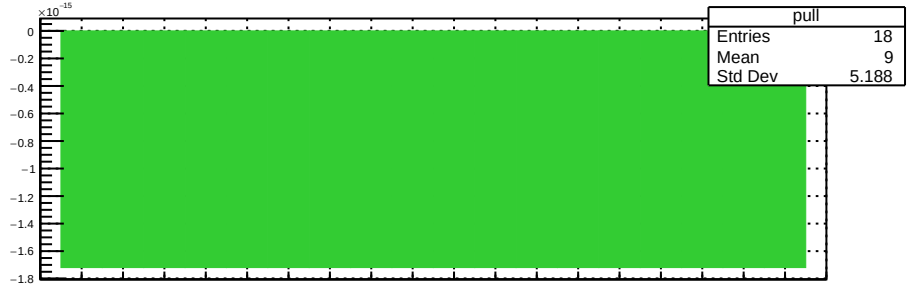

dit_sam5_4aX_slope vs run
χ^2 / ndf 7.629e−29 / 17
p0 3.229 ± 0.1017
3.6
3.4
3.2
3
2.8
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

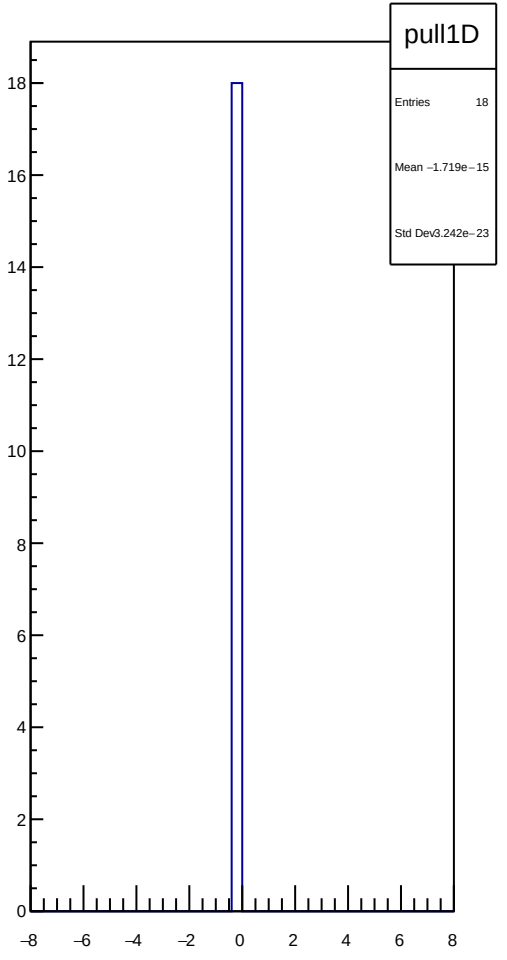

×10⁻¹⁵
pull
Entries 18
Mean 9
Std Dev 5.188

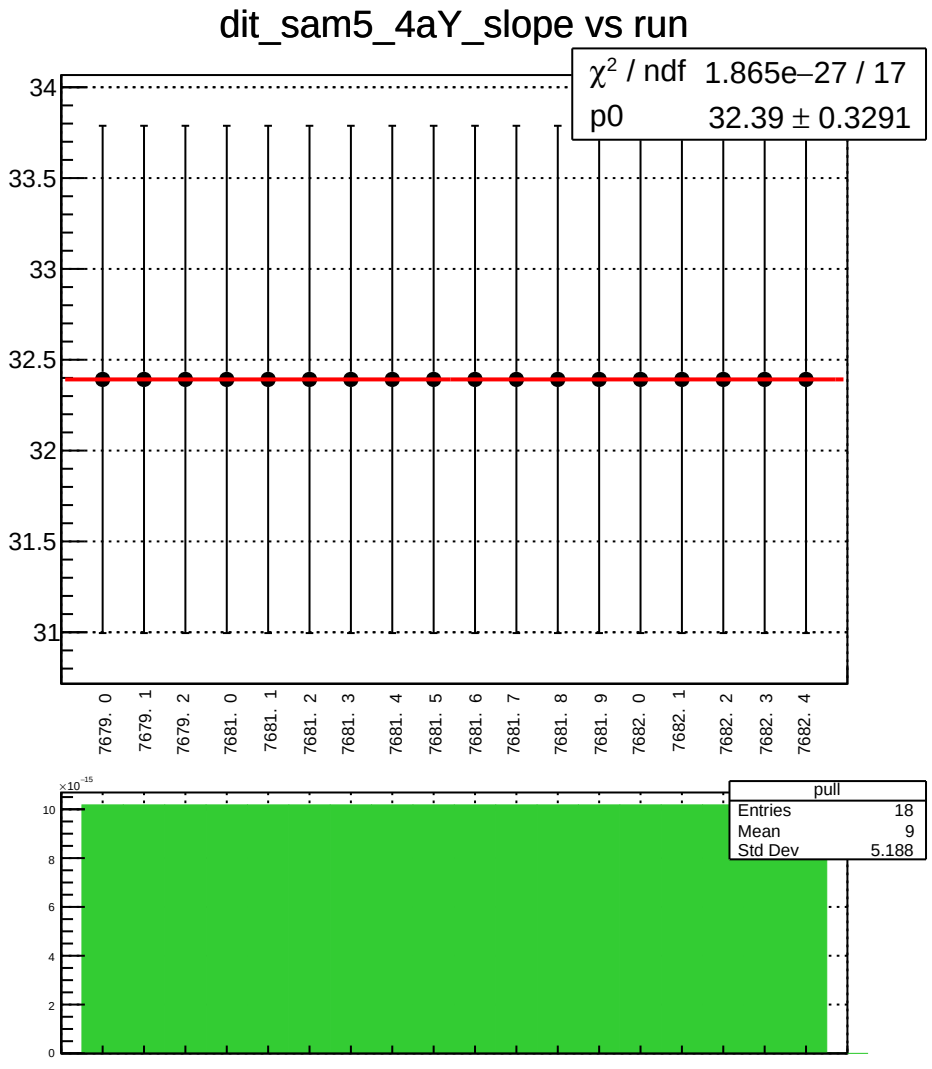

pull1D
Entries 18
Mean 2.059e−15
Std Dev4.585e−23
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

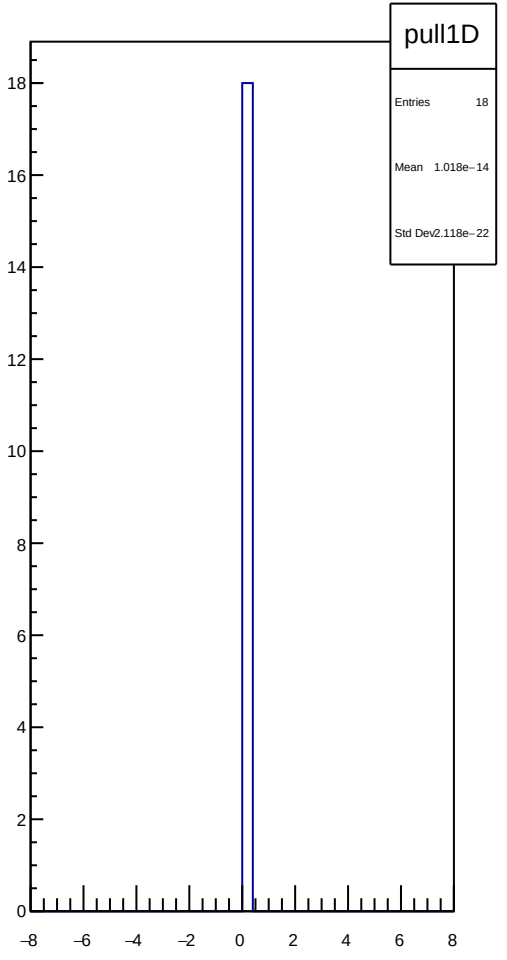

dit_sam5_4eX_slope vs run
χ² / ndf 1.012e−27 / 17
p0 7.348 ± 0.1117
7.8
7.6
7.4
7.2
7
6.8
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
×10⁻¹⁵
pull
Entries 18
Mean 9
Std Dev 5.188
pull1D
Entries 18
Mean 7.5e−15
Std Dev1.834e−22

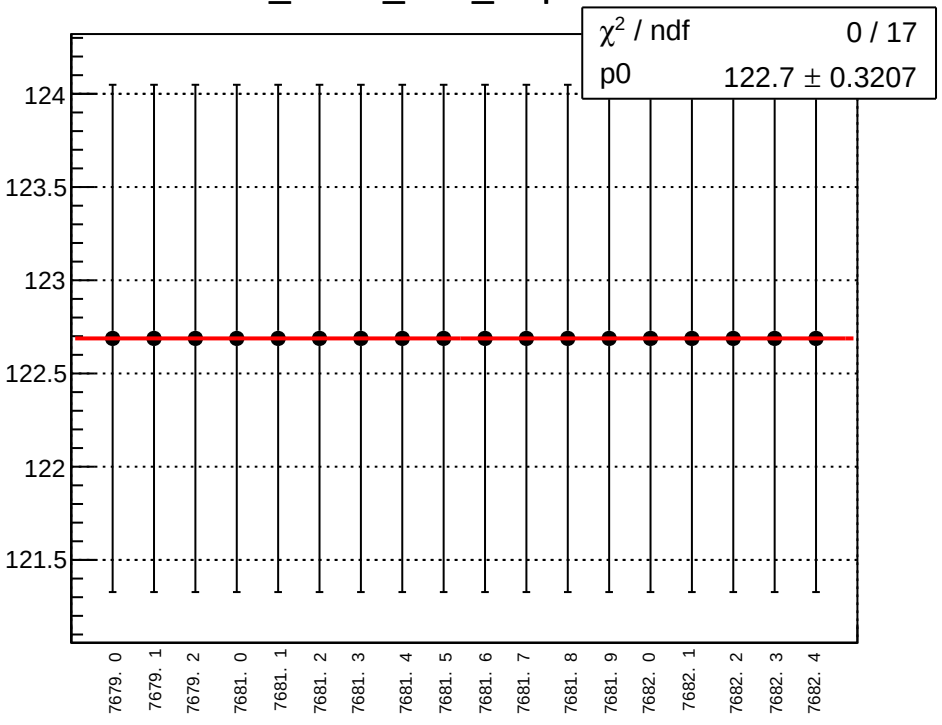

dit_sam5_11X12X_slope vs run
χ² / ndf 5.321e−29 / 17
p0 0.3953 ± 0.01522
0.46
0.44
0.42
0.4
0.38
0.36
0.34
0.32
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

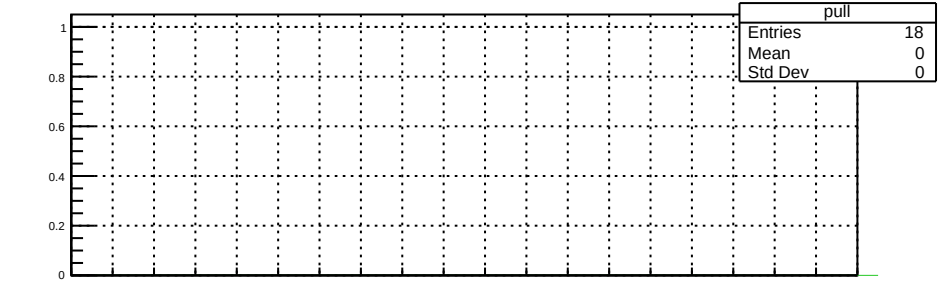

×10⁻¹⁵
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4
−1.6
−1.8
pull
Entries 18
Mean 9
Std Dev 5.188

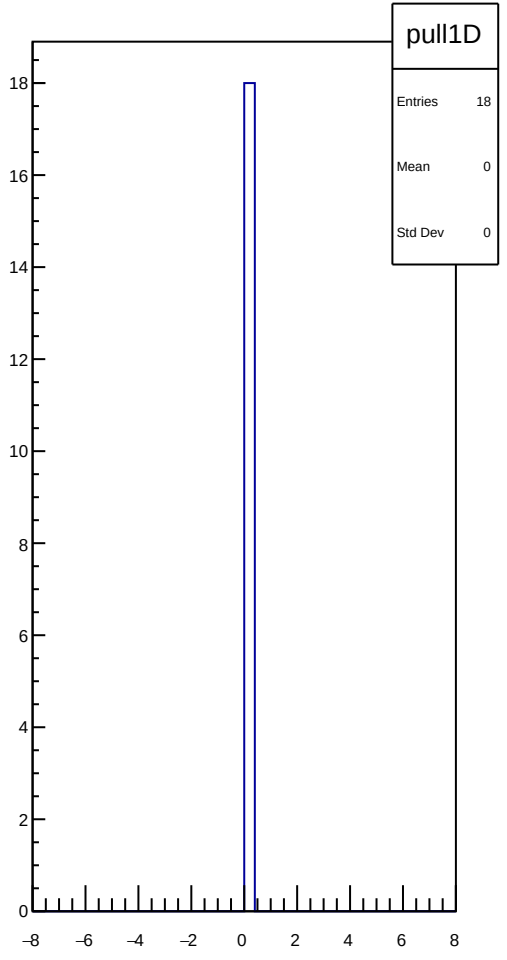

pull1D
Entries 18
Mean −1.719e−15
Std Dev3.242e−23
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

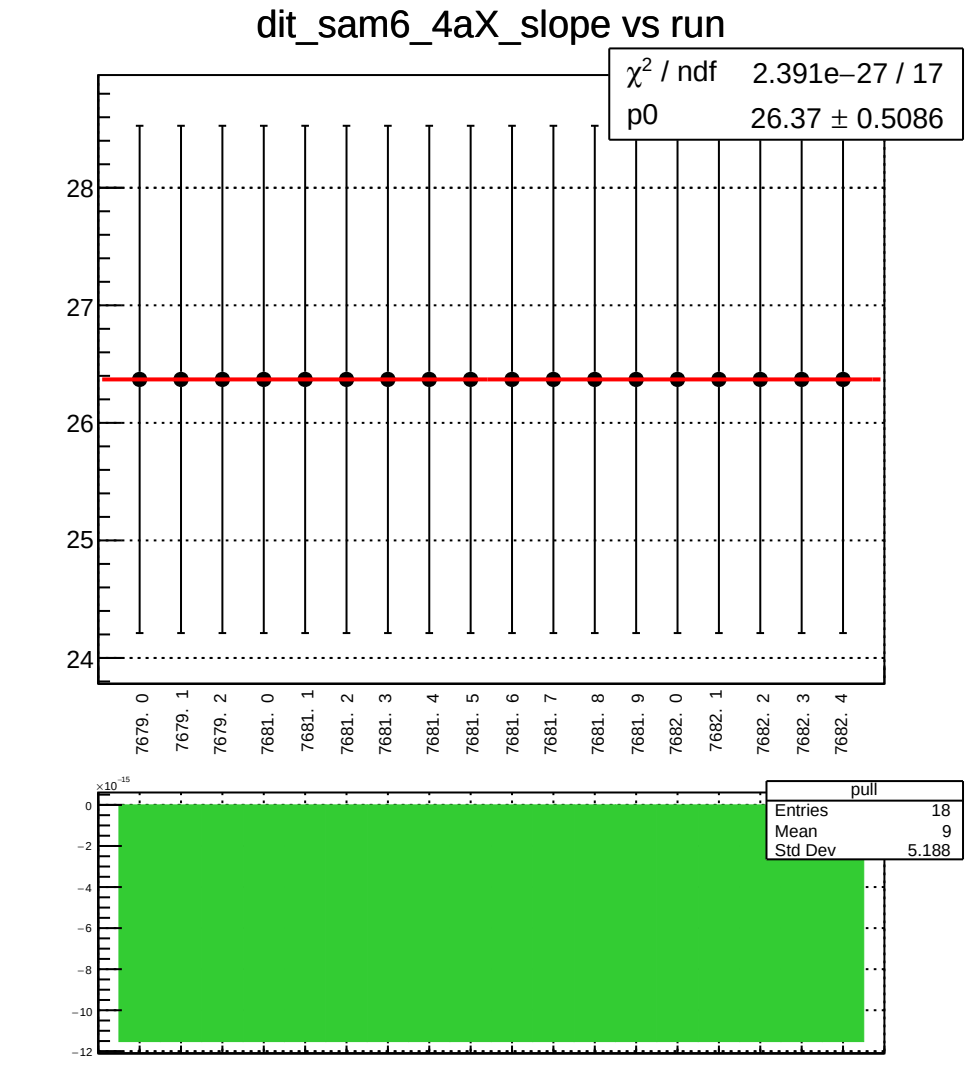

dit_sam5_4aY_slope vs run
χ² / ndf 1.865e−27 / 17
p0 32.39 ± 0.3291
34
33.5
33
32.5
32
31.5
31
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
×10⁻¹⁵
10
8
6
4
2
0
pull
Entries 18
Mean 9
Std Dev 5.188

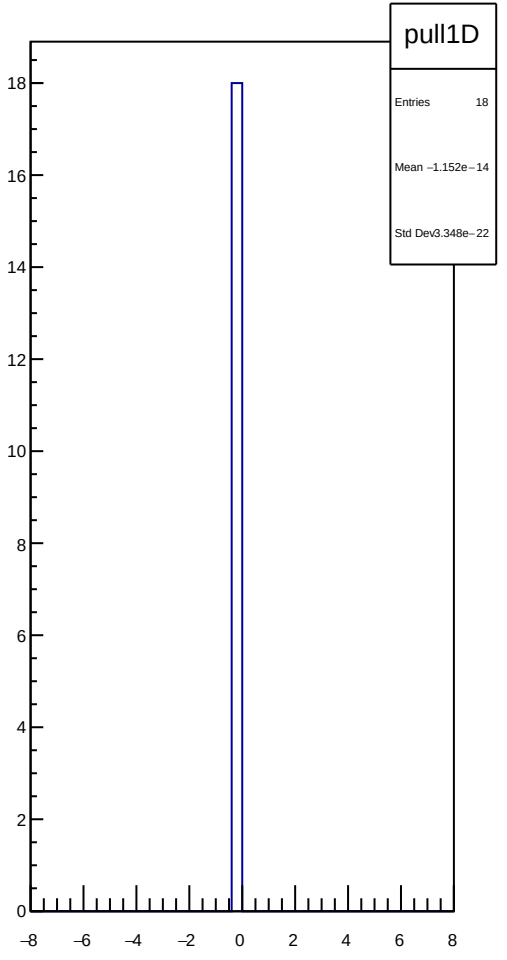

pull1D
Entries 18
Mean 1.018e−14
Std Dev2.118e−22
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

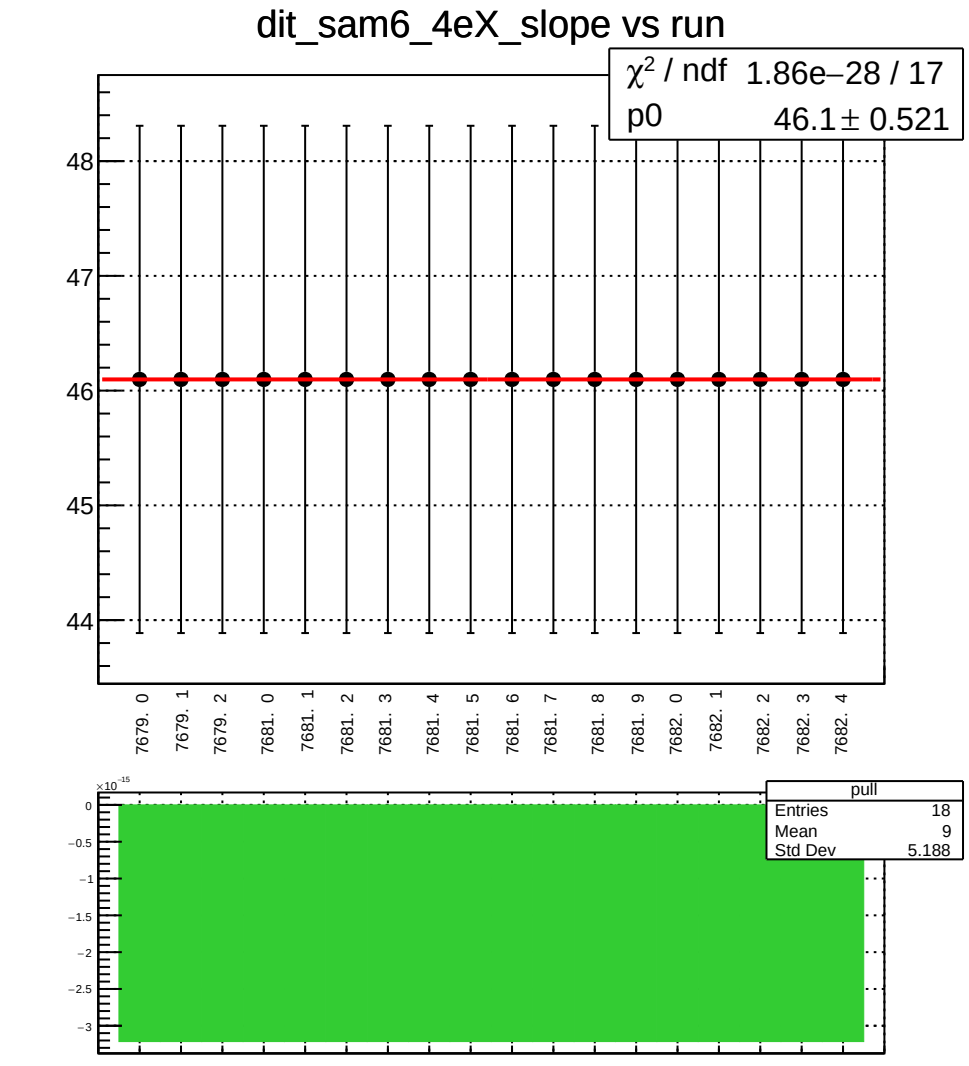

dit_sam5_4eY_slope vs run
χ² / ndf 0 / 17
p0 122.7 ± 0.3207
124
123.5
123
122.5
122
121.5
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

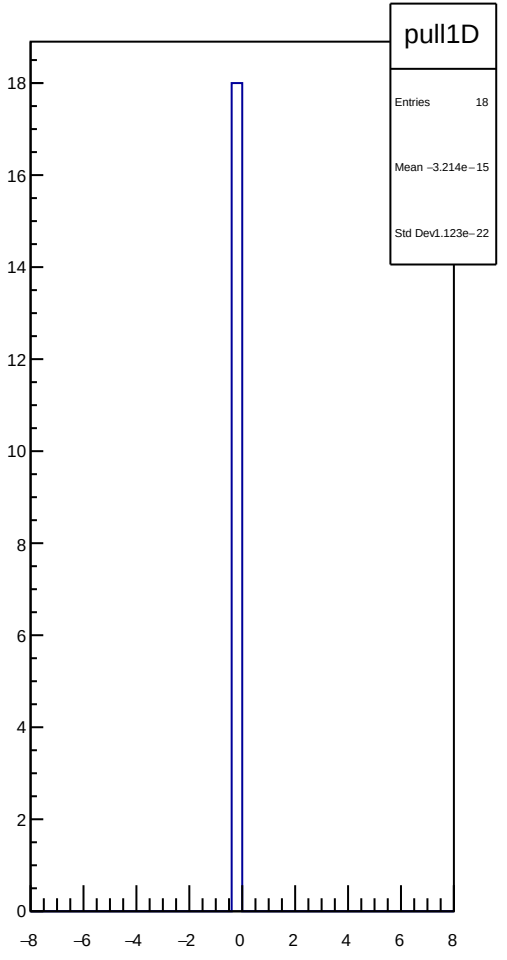

pull
Entries 18
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

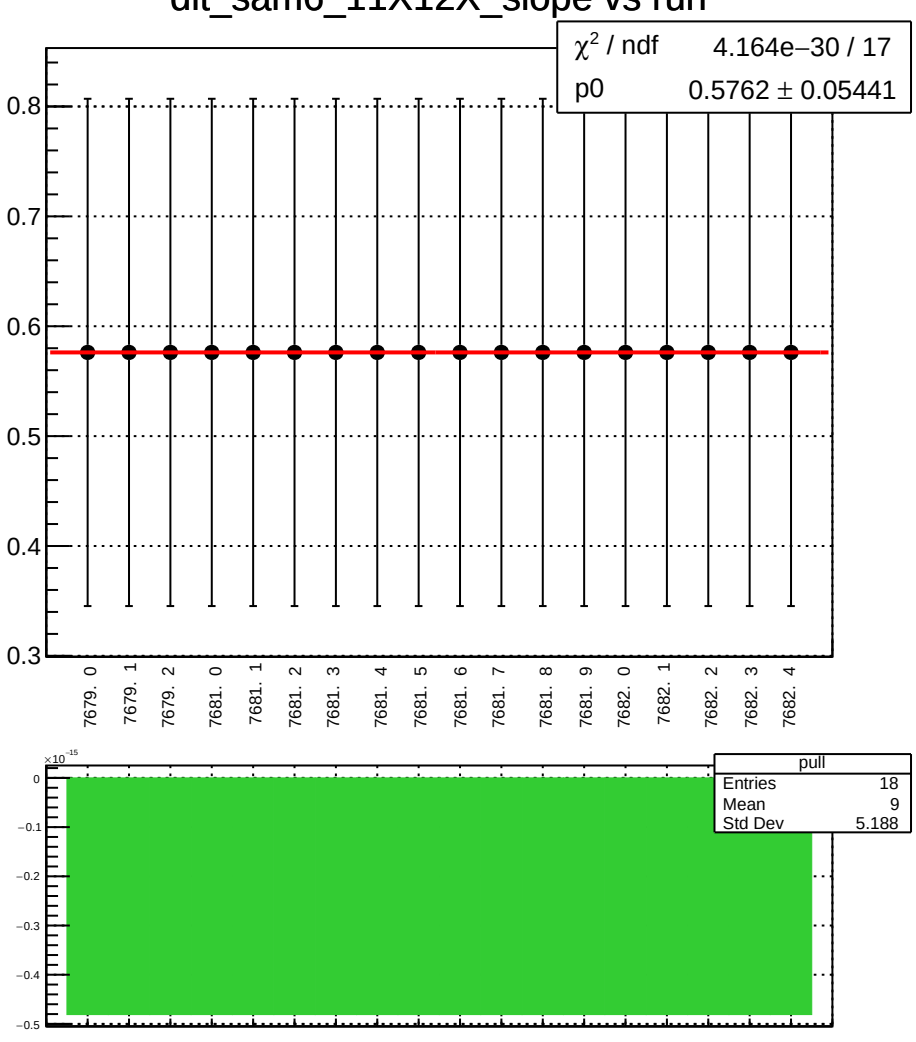

pull1D
Entries 18
Mean 0
Std Dev 0
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

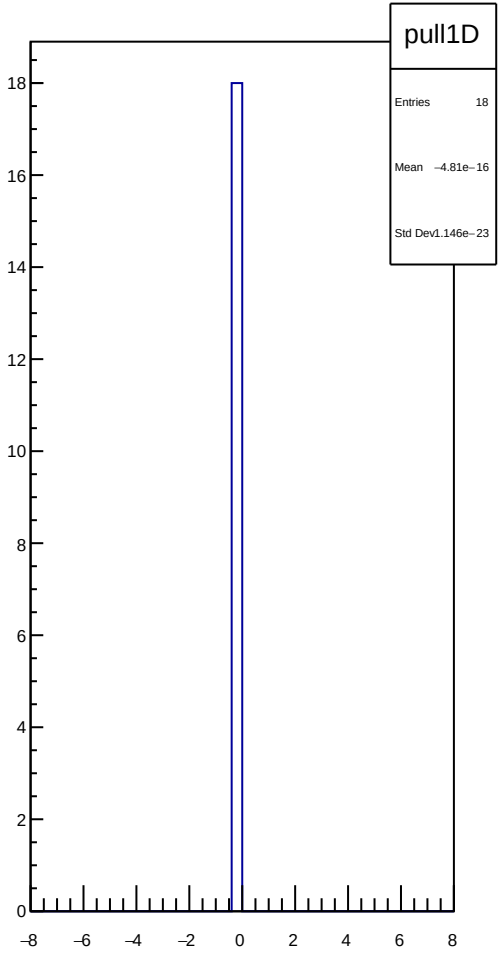

dit_sam6_4aX_slope vs run
χ² / ndf 2.391e−27 / 17
p0 26.37 ± 0.5086
28
27
26
25
24
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
×10⁻¹⁵
0
−2
−4
−6
−8
−10
−12
pull
Entries 18
Mean 9
Std Dev 5.188

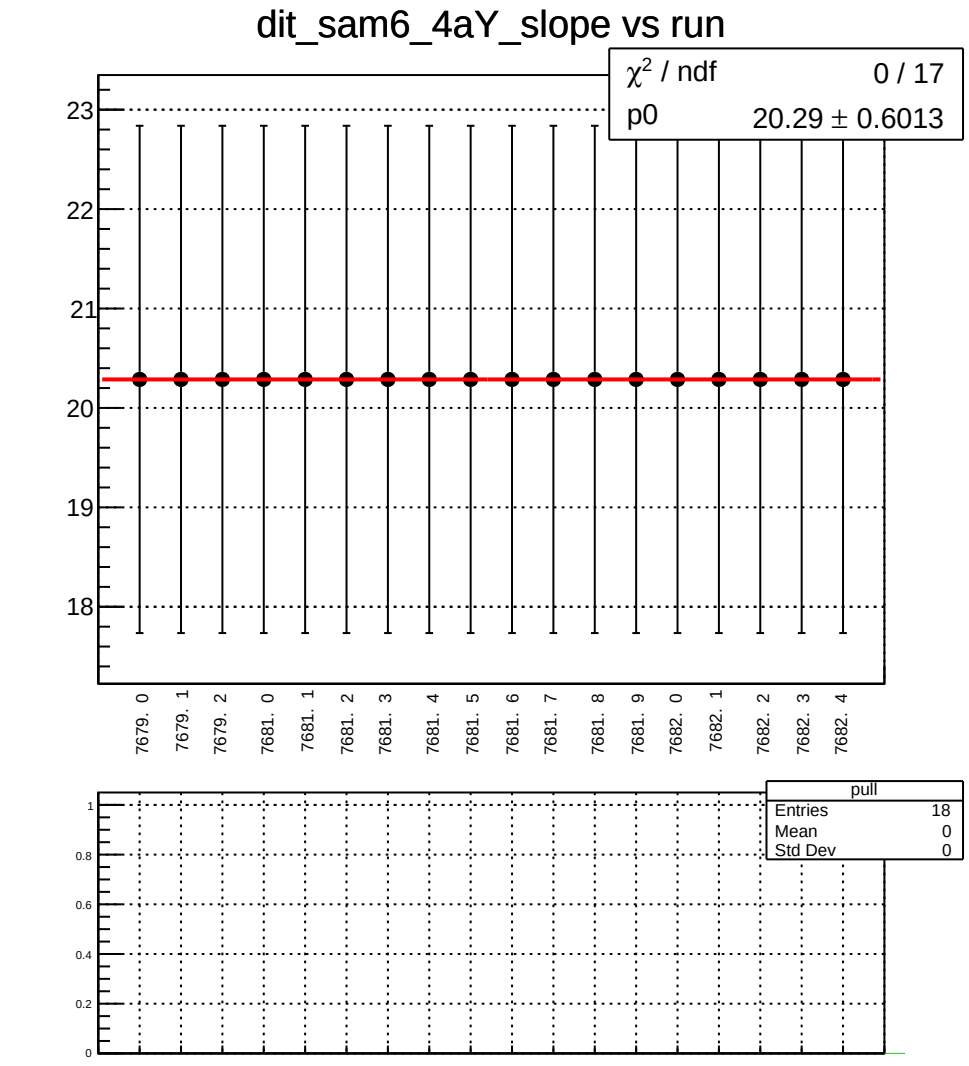

pull1D
Entries 18
Mean −1.152e−14
Std Dev3.348e−22
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

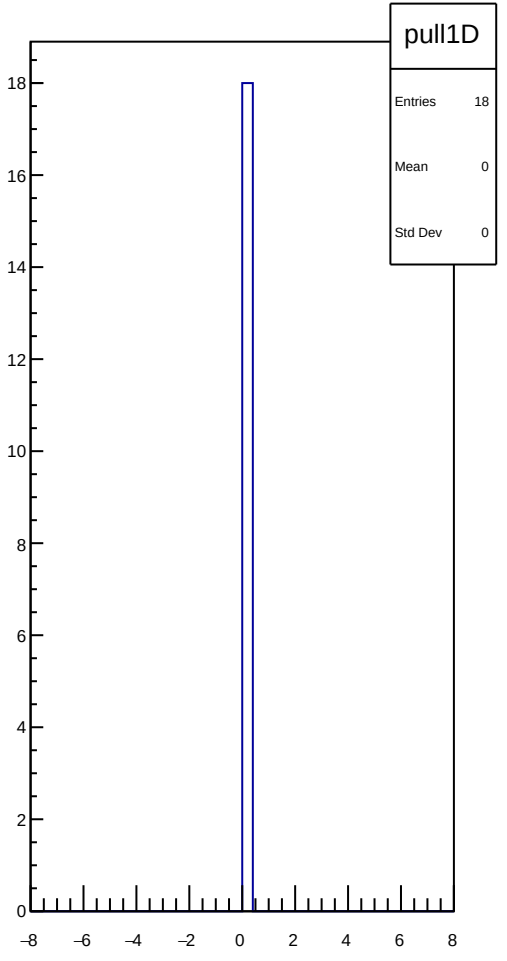

dit_sam6_4eX_slope vs run
χ² / ndf 1.86e−28 / 17
p0 46.1 ± 0.521
48
47
46
45
44
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
×10⁻¹⁵
0
−0.5
−1
−1.5
−2
−2.5
−3
pull
Entries 18
Mean 9
Std Dev 5.188

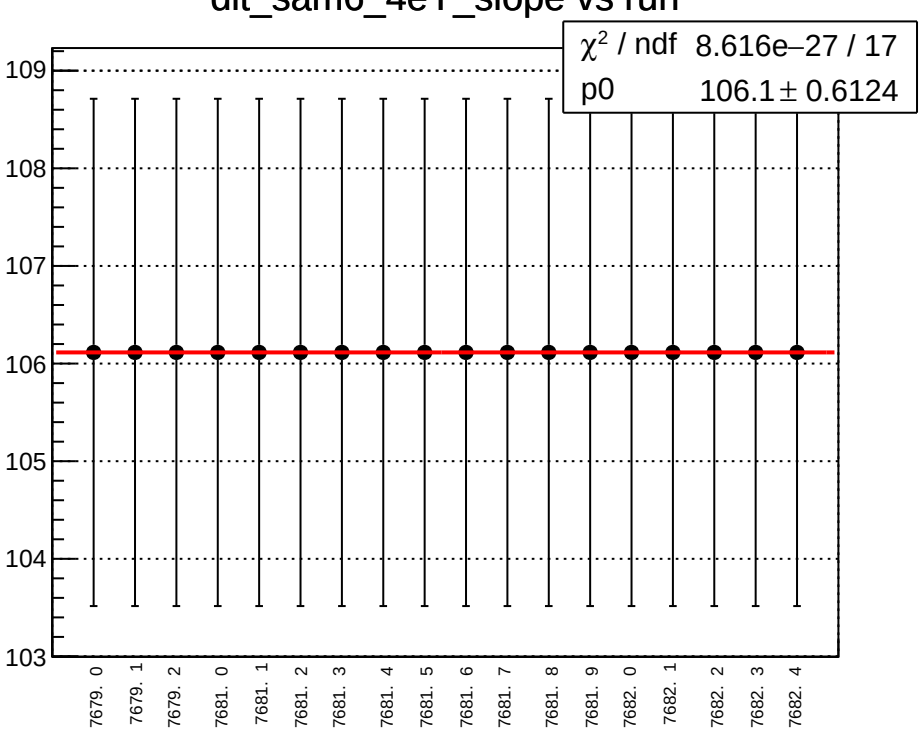

pull1D
Entries 18
Mean −3.214e−15
Std Dev1.123e−22
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

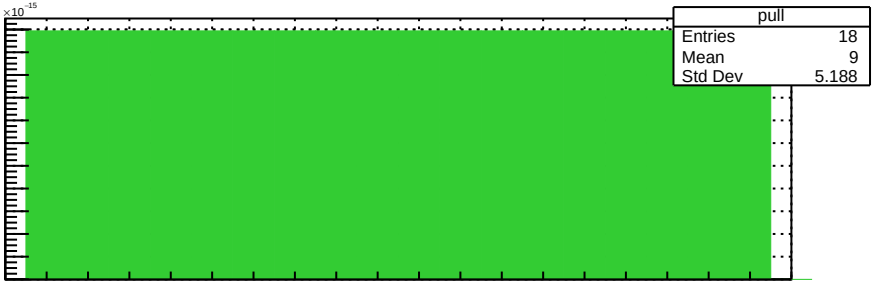

dit_sam6_11X12X_slope vs run
χ² / ndf 4.164e−30 / 17
p0 0.5762 ± 0.05441
0.8
0.7
0.6
0.5
0.4
0.3
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
×10⁻¹⁵
0
−0.1
−0.2
−0.3
−0.4
−0.5
pull
Entries 18
Mean 9
Std Dev 5.188

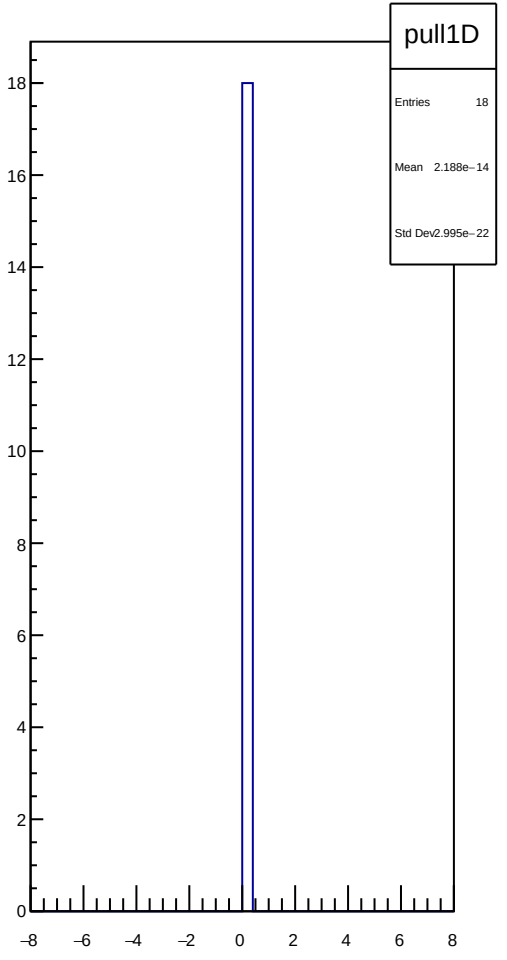

pull1D
Entries 18
Mean −4.81e−16
Std Dev1.146e−23
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

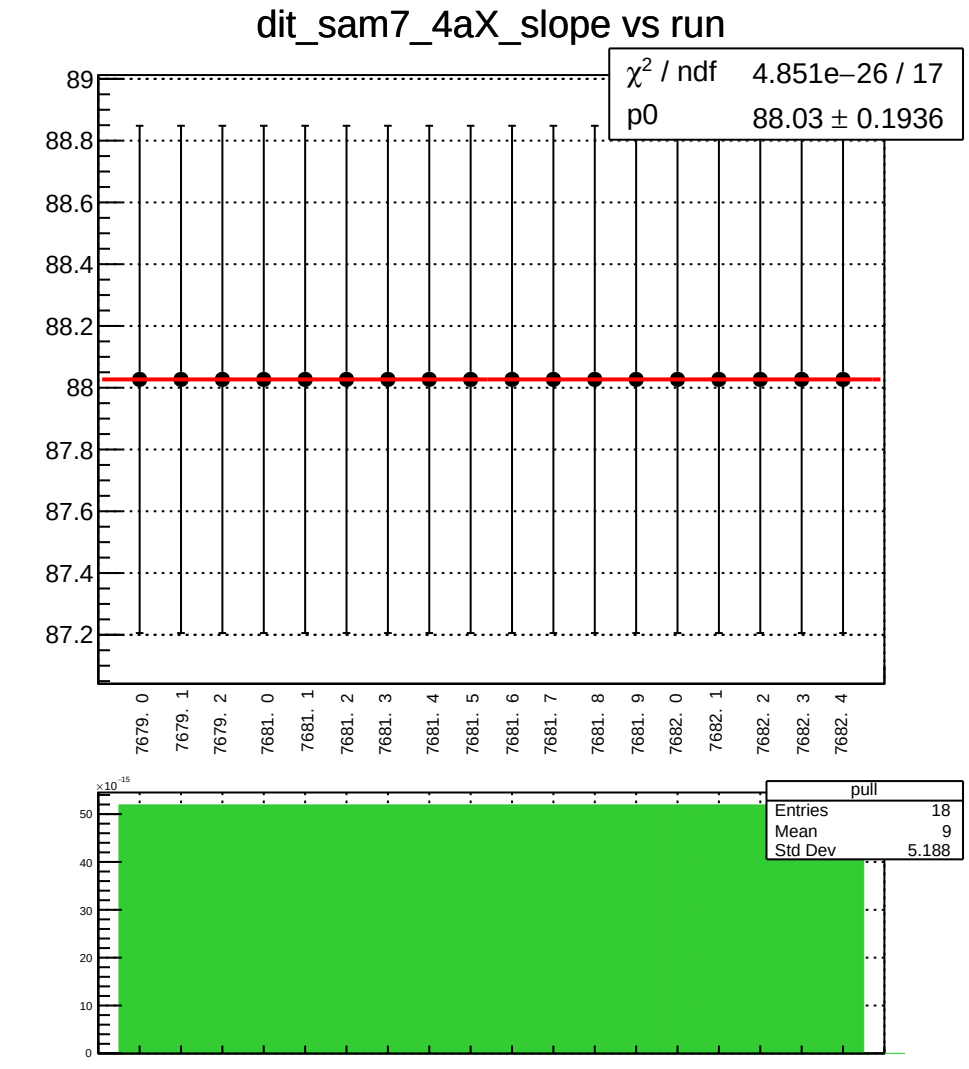

dit_sam6_4aY_slope vs run
χ² / ndf 0 / 17
p0 20.29 ± 0.6013
23
22
21
20
19
18
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

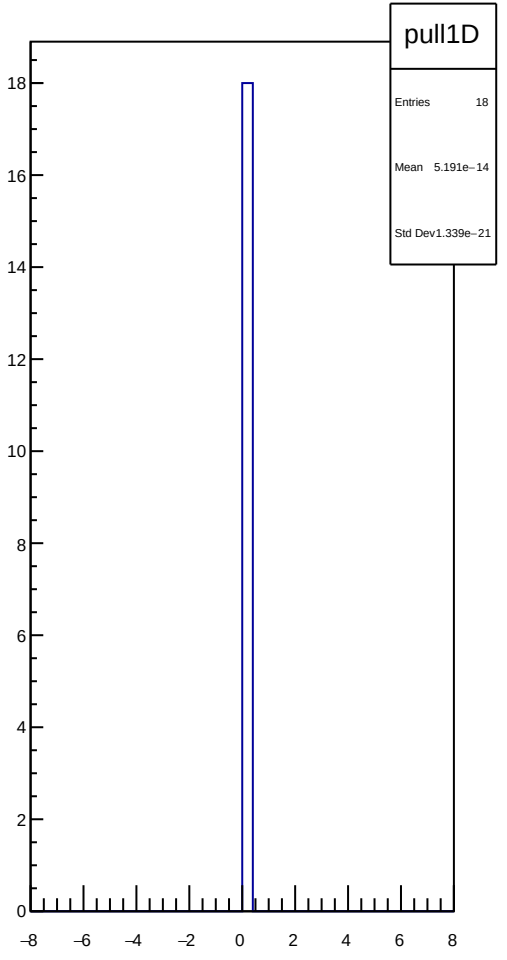

pull1D
Entries 18
Mean 0
Std Dev 0
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

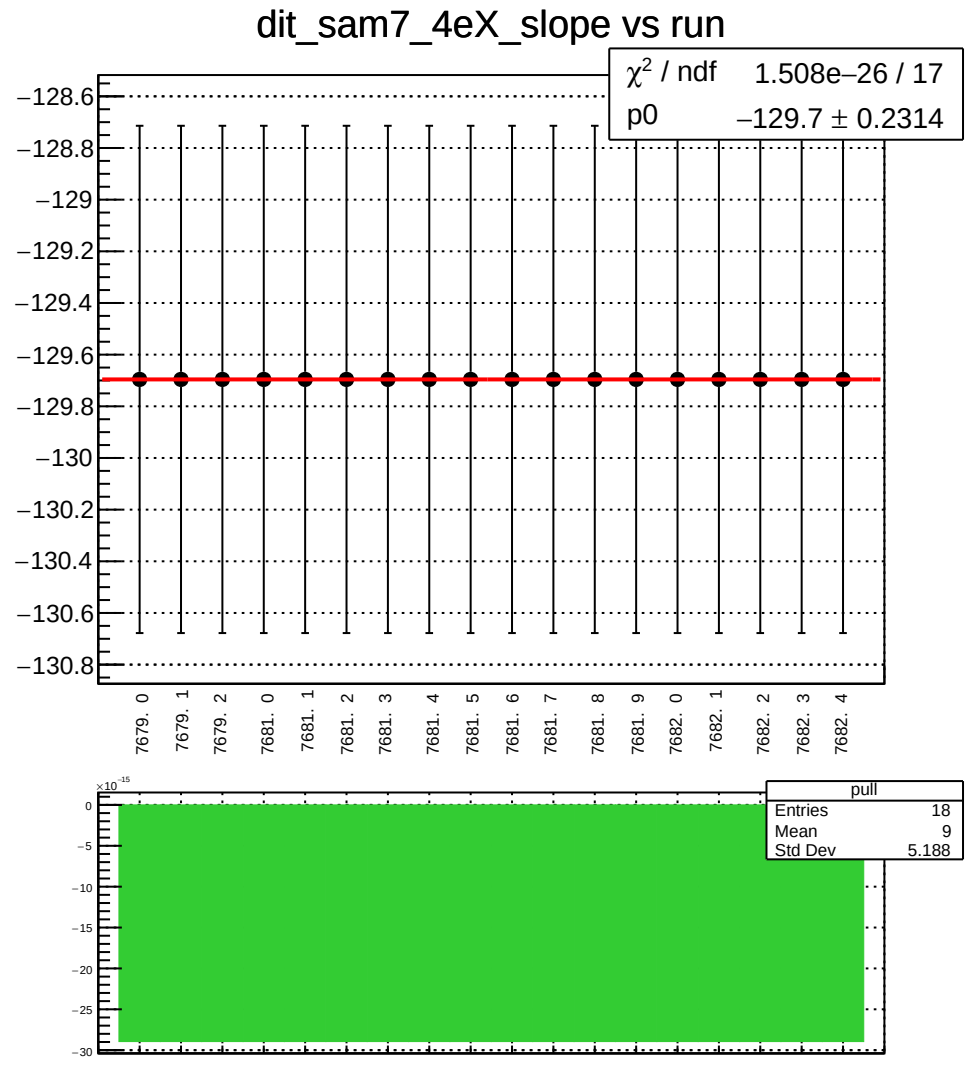

dit_sam6_4eY_slope vs run
χ² / ndf 8.616e−27 / 17
p0 106.1 ± 0.6124
109
108
107
106
105
104
103
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

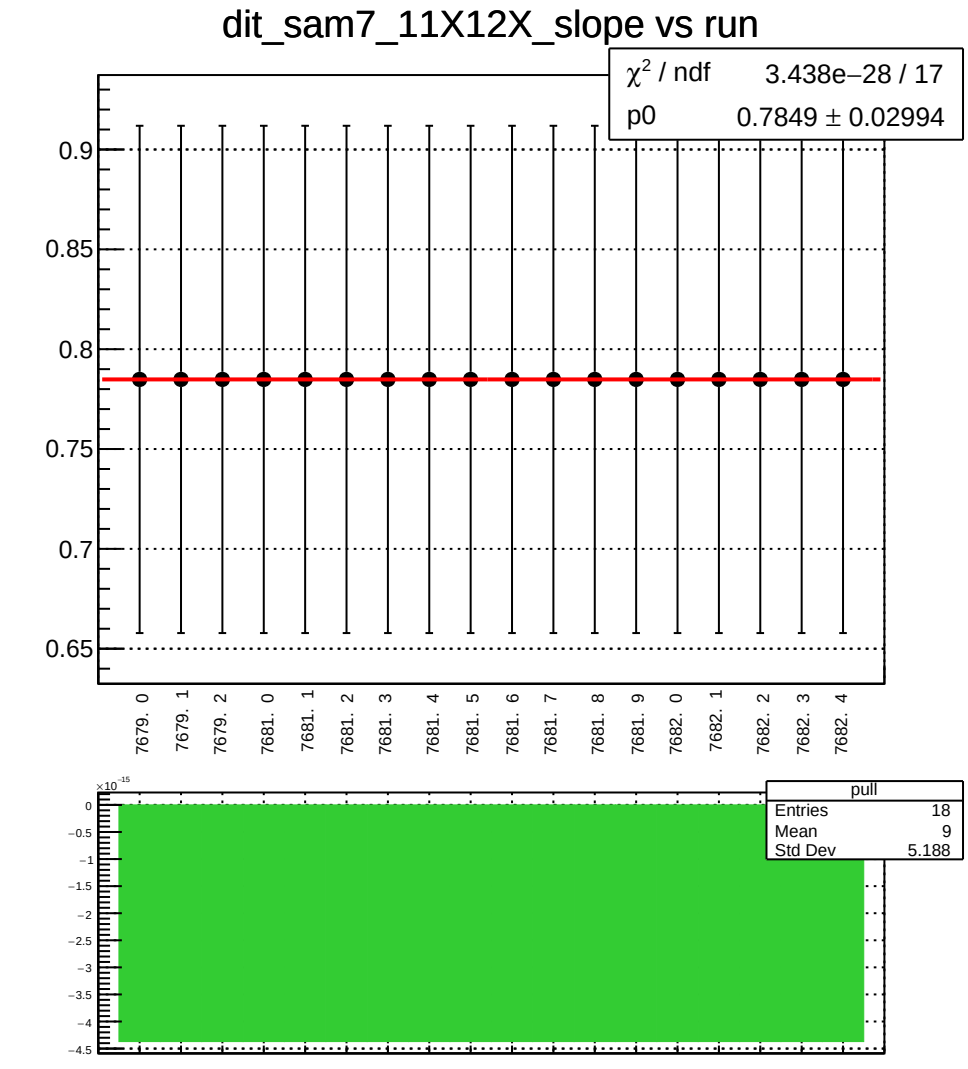

×10⁻¹⁵
22
20
18
16
14
12
10
8
6
4
2
0
pull
Entries 18
Mean 9
Std Dev 5.188

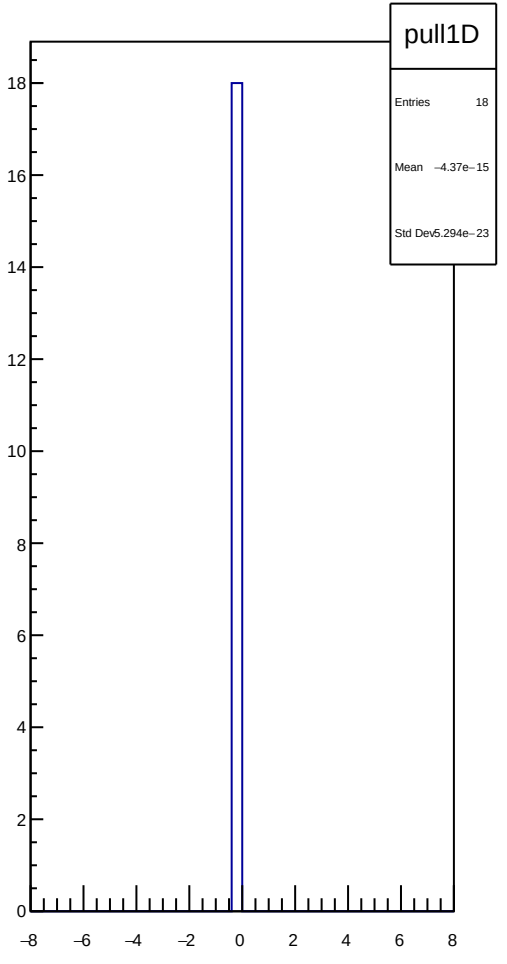

pull1D
Entries 18
Mean 2.188e−14
Std Dev 2.995e−22
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

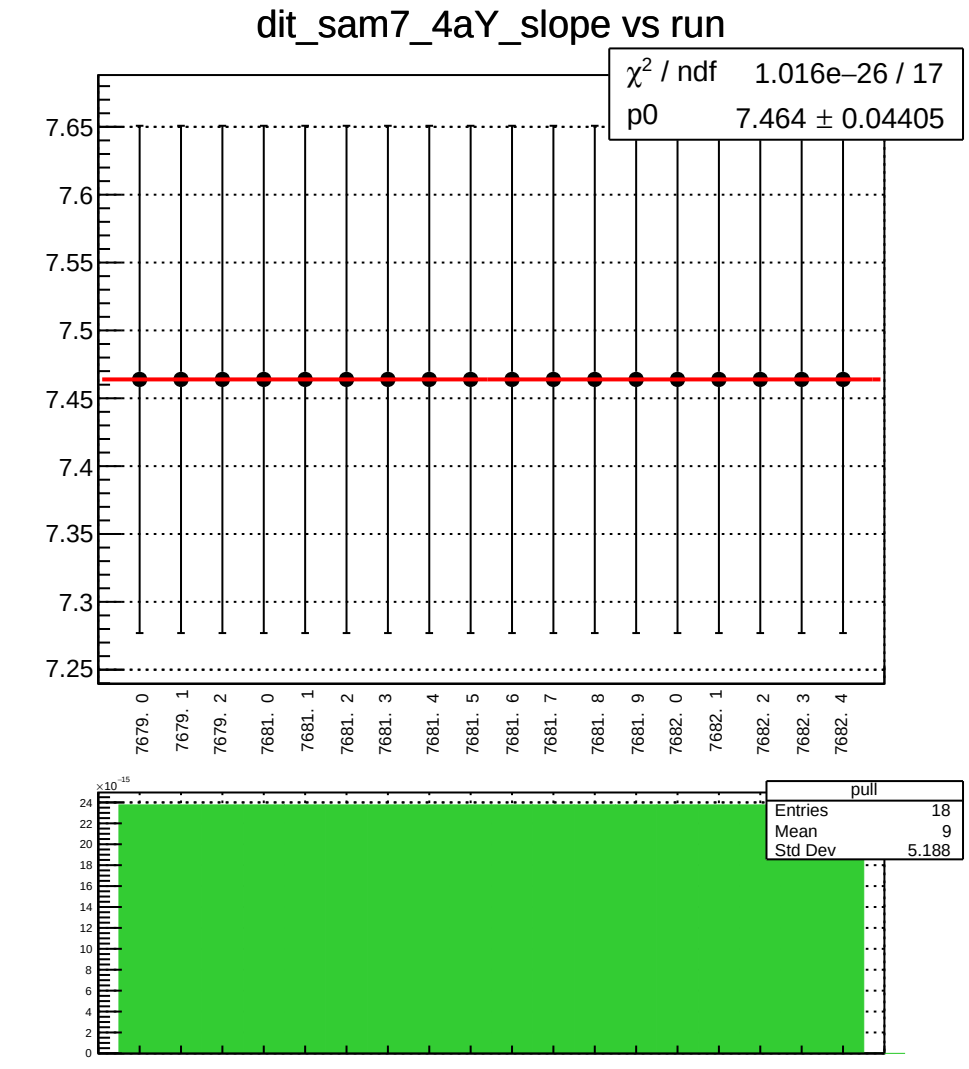

dit_sam7_4aX_slope vs run
χ² / ndf 4.851e−26 / 17
p0 88.03 ± 0.1936
89
88.8
88.6
88.4
88.2
88
87.8
87.6
87.4
87.2
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
×10⁻¹⁵
50
40
30
20
10
0
pull
Entries 18
Mean 9
Std Dev 5.188

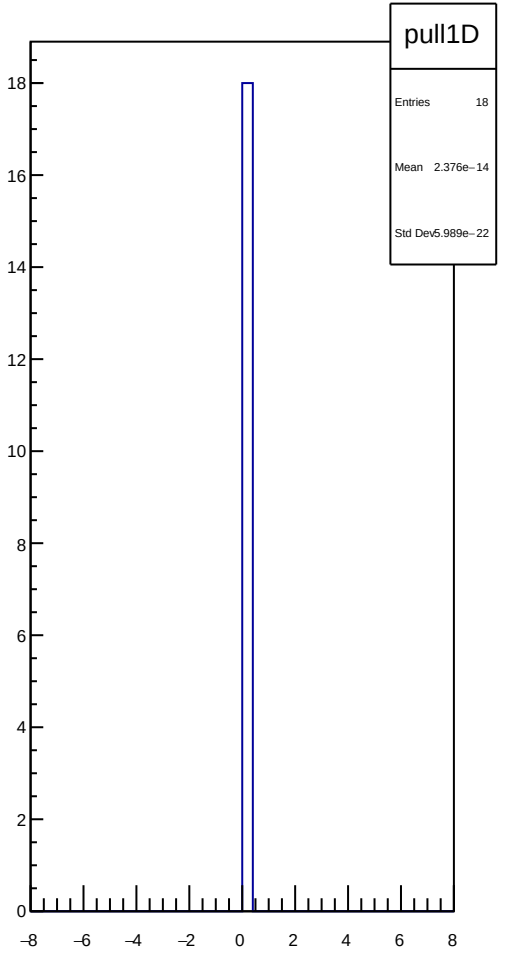

pull1D
Entries 18
Mean 5.191e−14
Std Dev1.339e−21
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

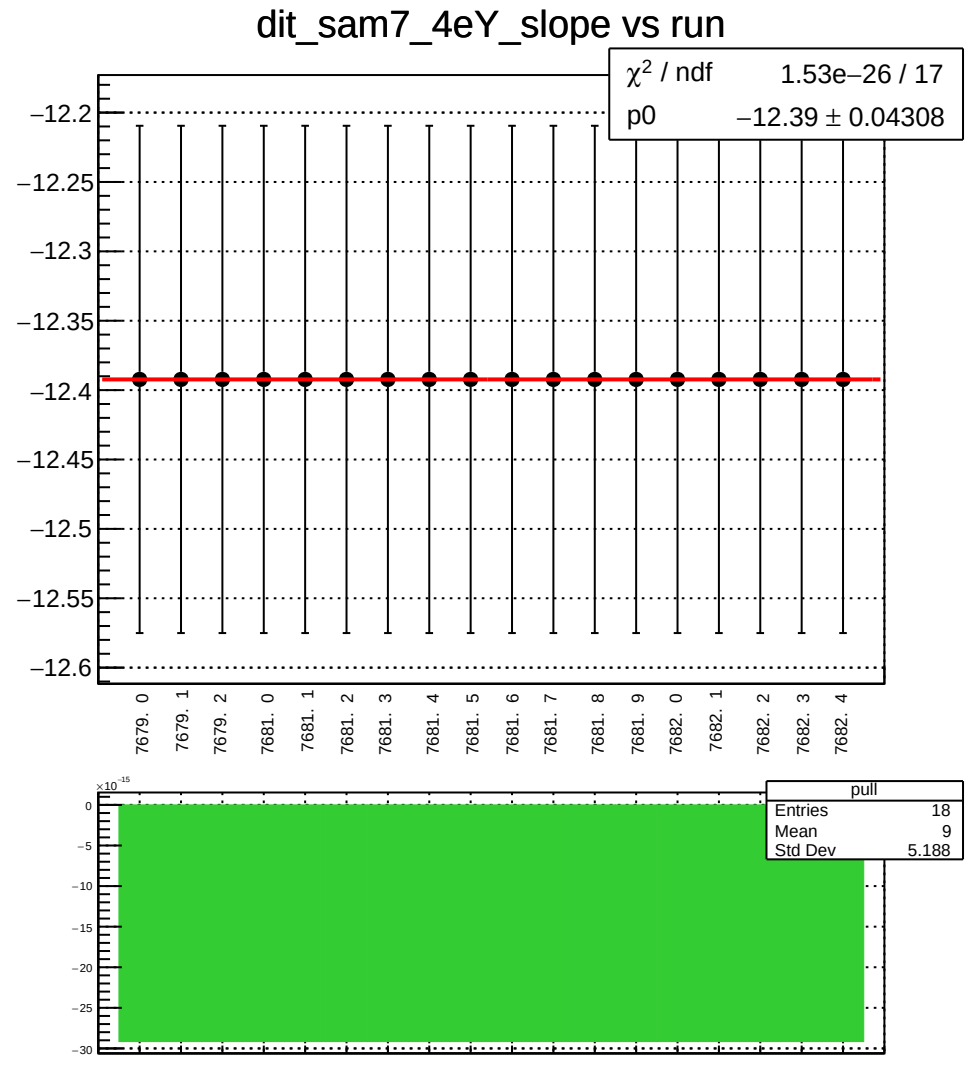

dit_sam7_4eX_slope vs run
χ² / ndf 1.508e−26 / 17
p0 −129.7 ± 0.2314
−128.6
−128.8
−129
−129.2
−129.4
−129.6
−129.8
−130
−130.2
−130.4
−130.6
−130.8
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
×10⁻¹⁵
0
−5
−10
−15
−20
−25
−30
pull
Entries 18
Mean 9
Std Dev 5.188
pull1D
Entries 18
Mean −2.895e−14
Std Dev4.235e−22
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

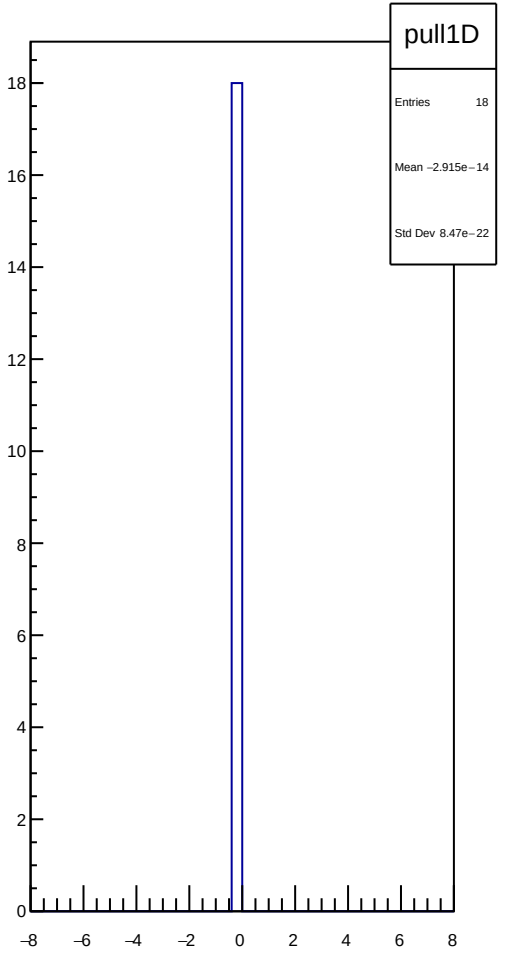

dit_sam7_11X12X_slope vs run
χ² / ndf 3.438e−28 / 17
p0 0.7849 ± 0.02994
0.9
0.85
0.8
0.75
0.7
0.65
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
×10⁻¹⁵
0
−0.5
−1
−1.5
−2
−2.5
−3
−3.5
−4
−4.5
pull
Entries 18
Mean 9
Std Dev 5.188

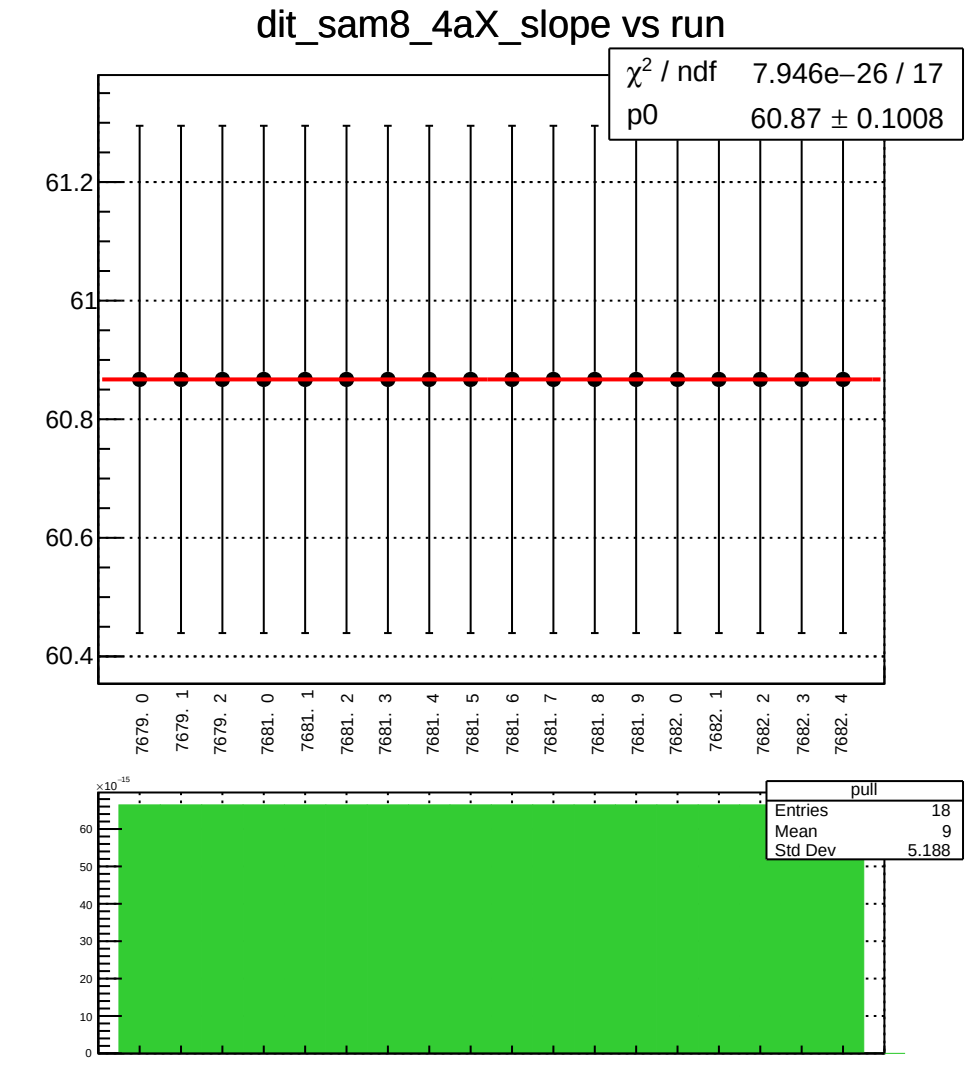

pull1D
Entries 18
Mean −4.37e−15
Std Dev 5.294e−23
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

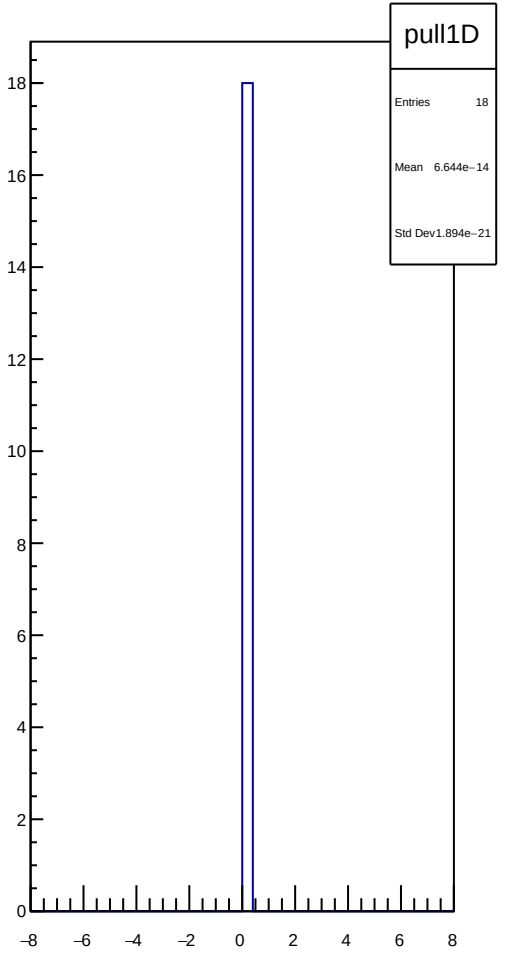

dit_sam7_4aY_slope vs run
χ² / ndf 1.016e−26 / 17
p0 7.464 ± 0.04405
7.65
7.6
7.55
7.5
7.45
7.4
7.35
7.3
7.25
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
×10⁻¹⁵
pull
Entries 18
Mean 9
Std Dev 5.188

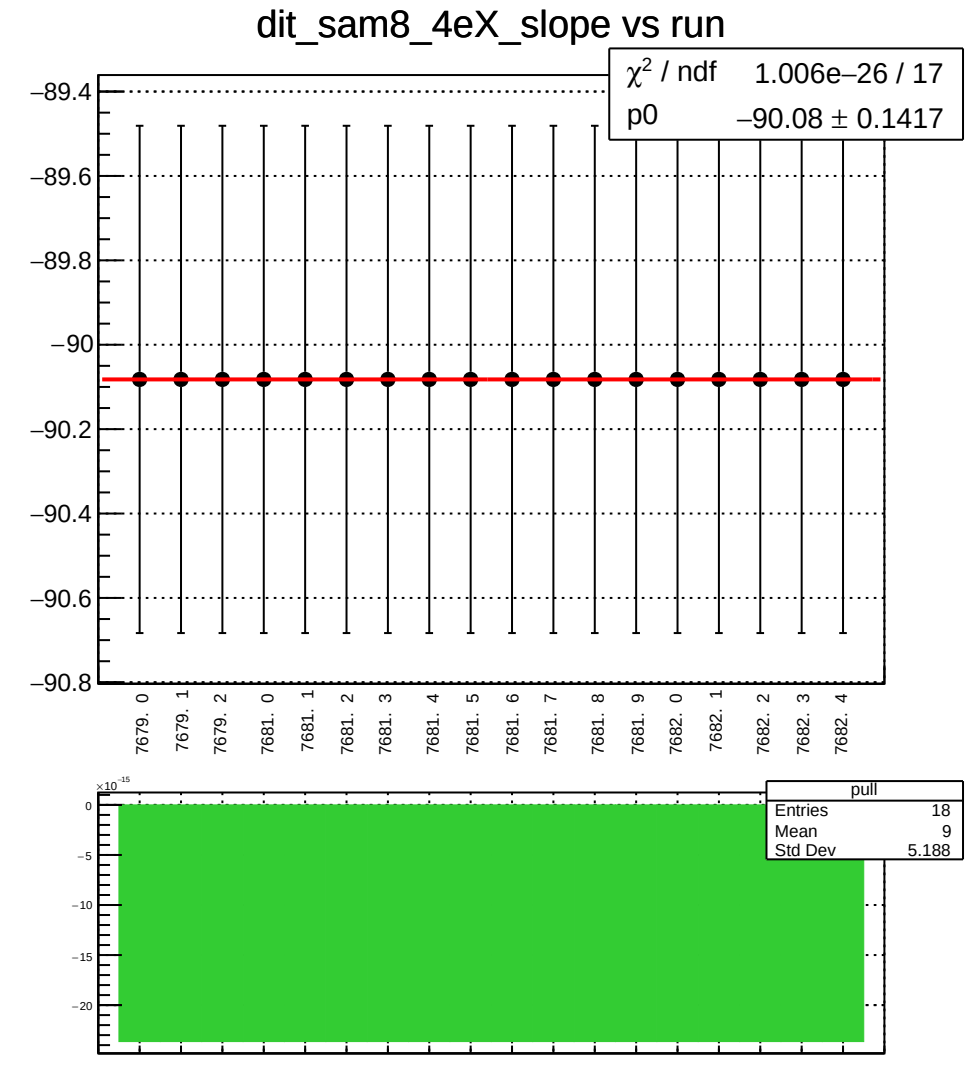

pull1D
Entries 18
Mean 2.376e−14
Std Dev 5.989e−22

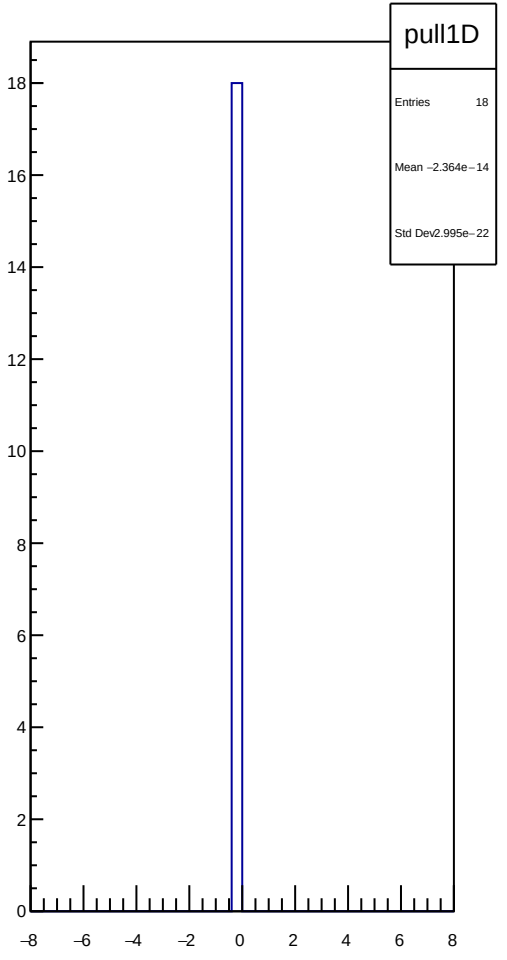

dit_sam7_4eY_slope vs run
χ² / ndf 1.53e−26 / 17
p0 −12.39 ± 0.04308
−12.2
−12.25
−12.3
−12.35
−12.4
−12.45
−12.5
−12.55
−12.6
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
×10⁻¹⁵
0
−5
−10
−15
−20
−25
−30
pull
Entries 18
Mean 9
Std Dev 5.188

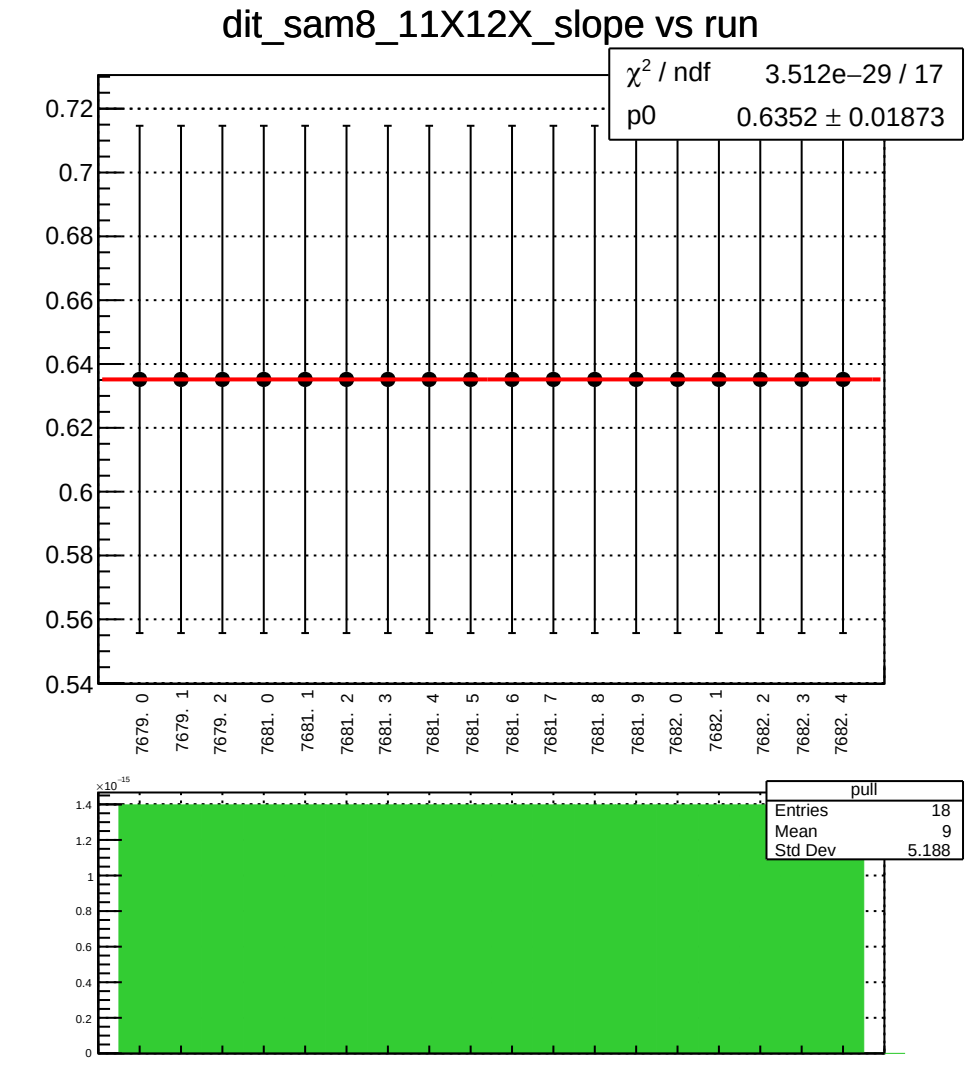

pull1D
Entries 18
Mean −2.915e−14
Std Dev 8.47e−22
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

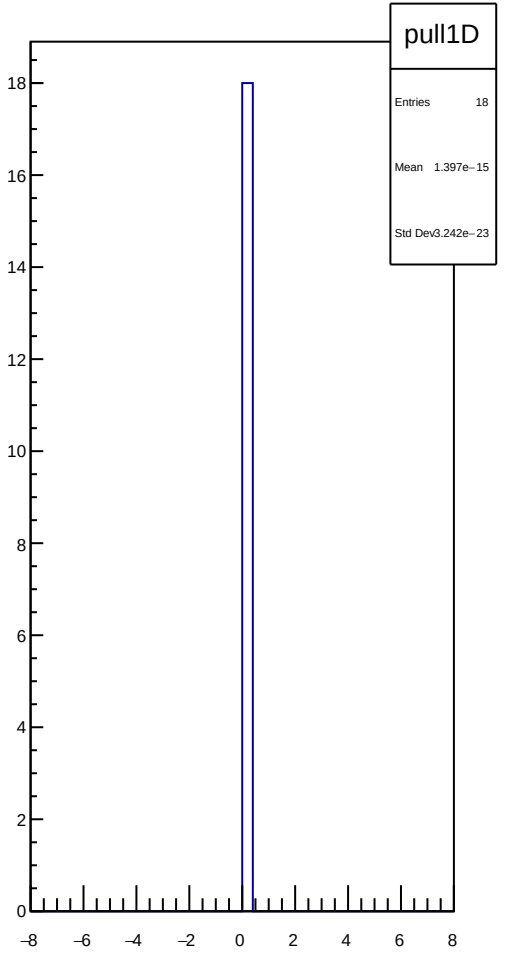

dit_sam8_4aX_slope vs run
χ² / ndf 7.946e−26 / 17
p0 60.87 ± 0.1008
61.2
61
60.8
60.6
60.4
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
×10⁻¹⁵
pull
Entries 18
Mean 9
Std Dev 5.188
60
50
40
30
20
10
0

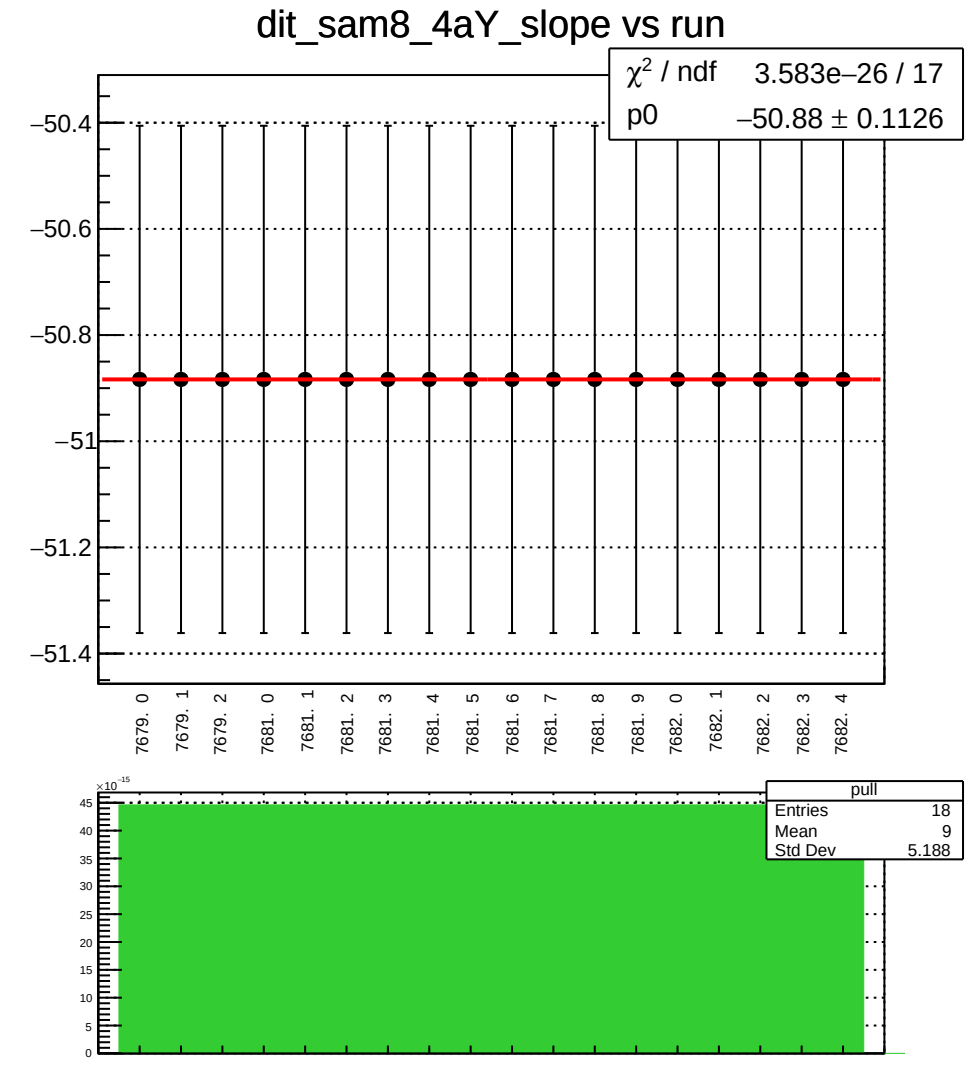

pull1D
Entries 18
Mean 6.644e−14
Std Dev1.894e−21
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

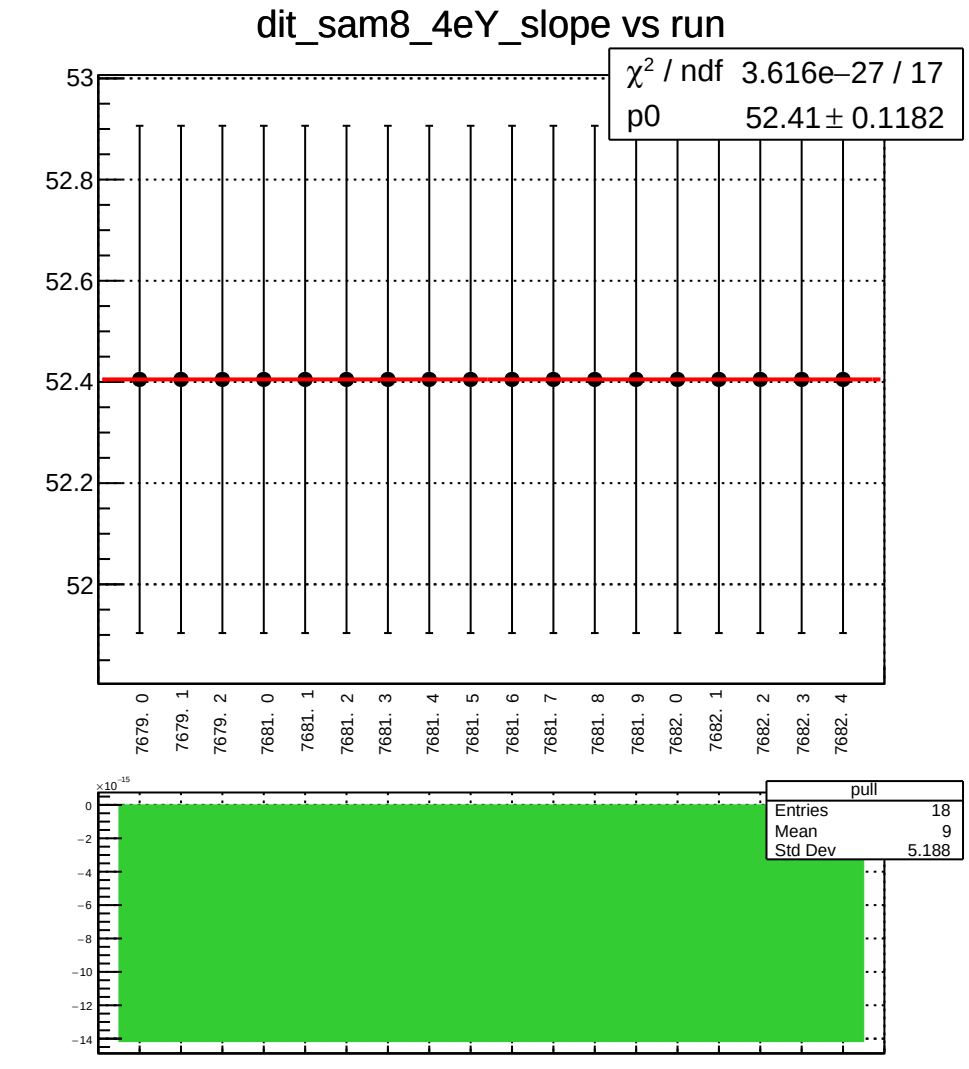

dit_sam8_4eX_slope vs run
χ² / ndf 1.006e−26 / 17
p0 −90.08 ± 0.1417
−89.4
−89.6
−89.8
−90
−90.2
−90.4
−90.6
−90.8
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
×10⁻¹⁵
0
−5
−10
−15
−20
pull
Entries 18
Mean 9
Std Dev 5.188

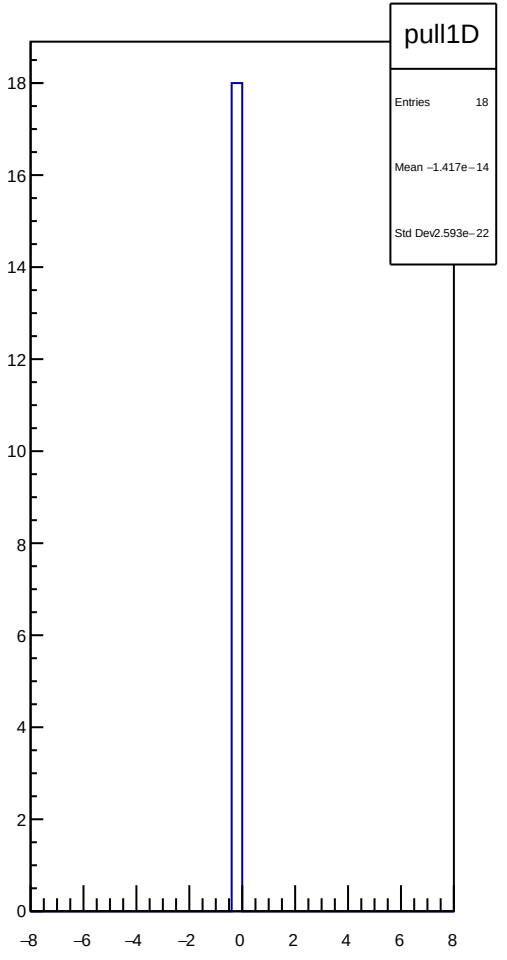

pull1D
Entries 18
Mean −2.364e−14
Std Dev2.995e−22
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

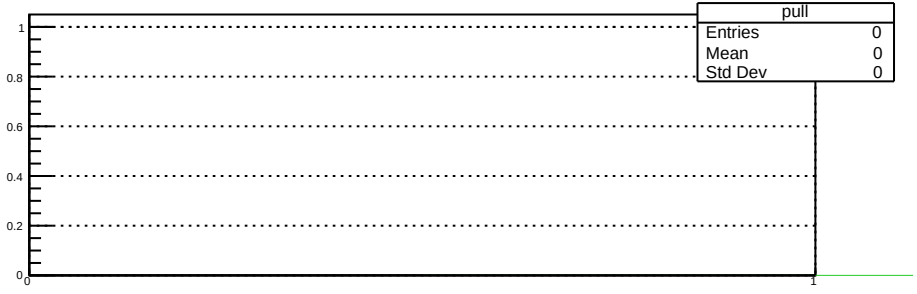

dit_sam8_11X12X_slope vs run
χ² / ndf 3.512e−29 / 17
p0 0.6352 ± 0.01873
0.72
0.7
0.68
0.66
0.64
0.62
0.6
0.58
0.56
0.54
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
×10⁻¹⁵
1.4
1.2
1
0.8
0.6
0.4
0.2
0
pull
Entries 18
Mean 9
Std Dev 5.188

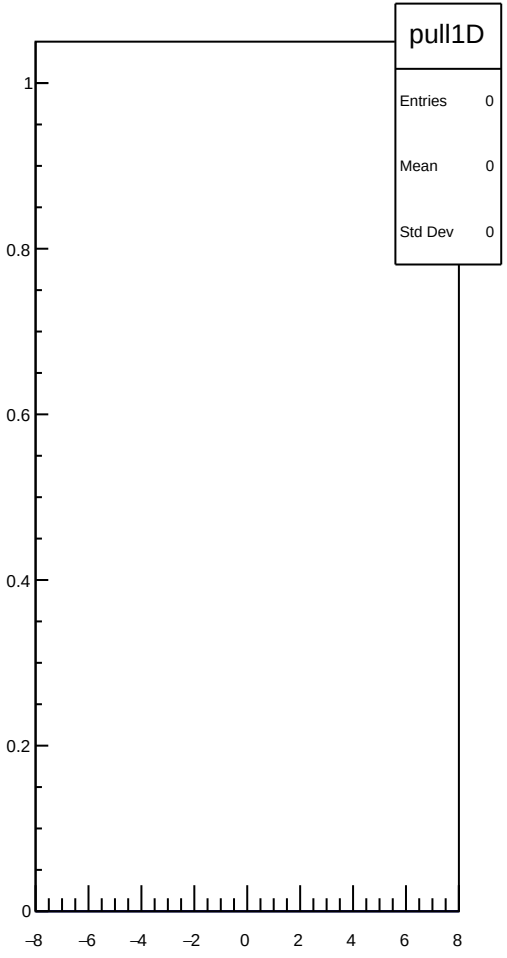

pull1D
Entries 18
Mean 1.397e−15
Std Dev3.242e−23
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

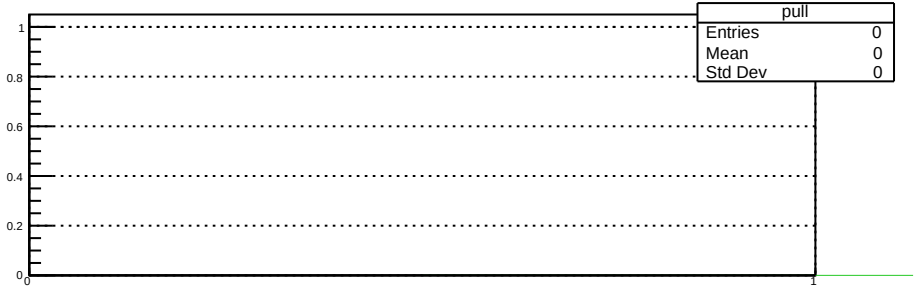

dit_sam8_4aY_slope vs run
χ² / ndf 3.583e−26 / 17
p0 −50.88 ± 0.1126
−50.4
−50.6
−50.8
−51
−51.2
−51.4
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 9
Std Dev 5.188
×10⁻¹⁵
pull1D
Entries 18
Mean 4.461e−14
Std Dev1.467e−21

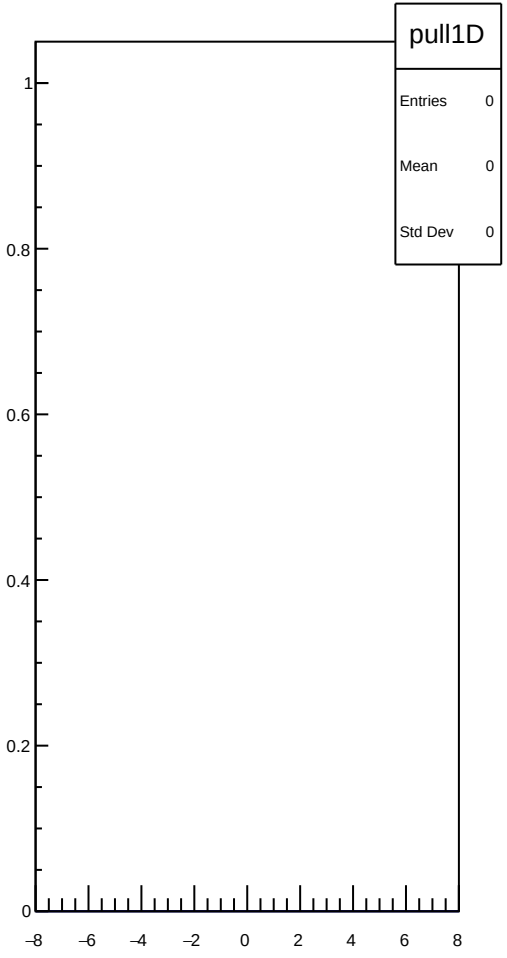

dit_sam8_4eY_slope vs run
χ² / ndf 3.616e−27 / 17
p0 52.41 ± 0.1182
53
52.8
52.6
52.4
52.2
52
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
×10⁻¹⁵
0
−2
−4
−6
−8
−10
−12
−14
pull
Entries 18
Mean 9
Std Dev 5.188

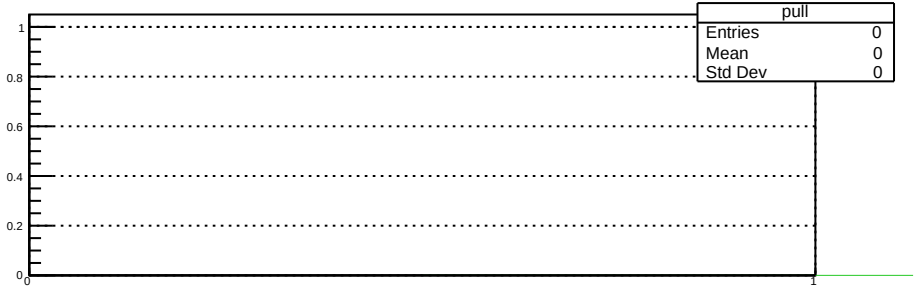

pull1D
Entries 18
Mean −1.417e−14
Std Dev 2.593e−22
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

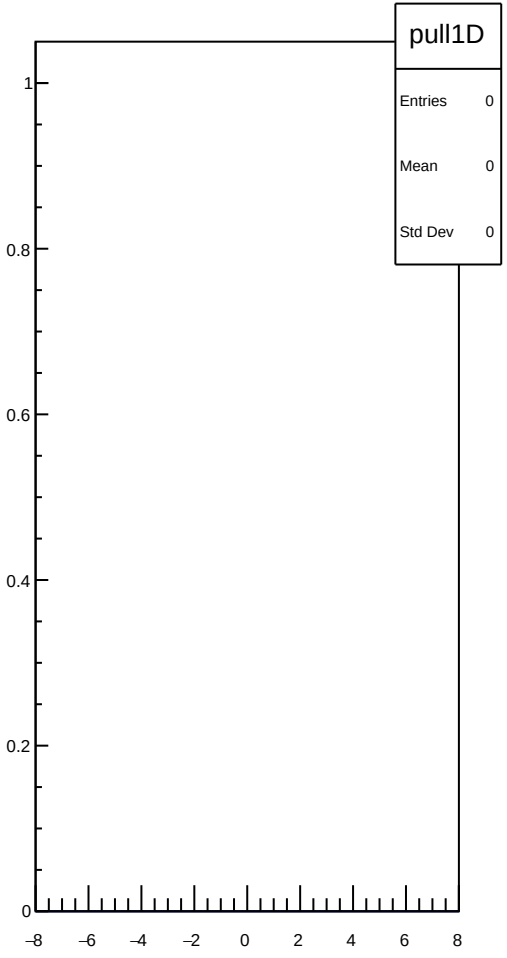

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1


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


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


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


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


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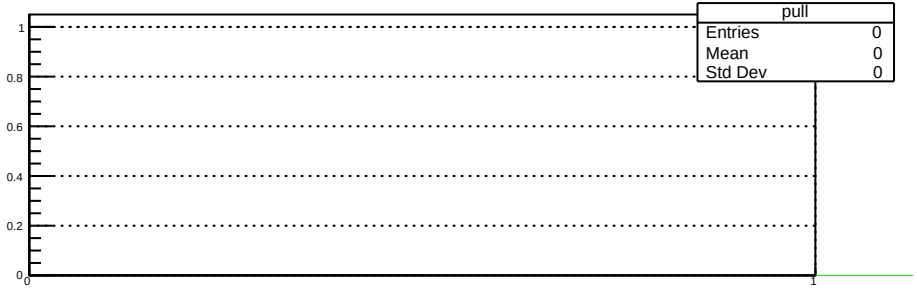
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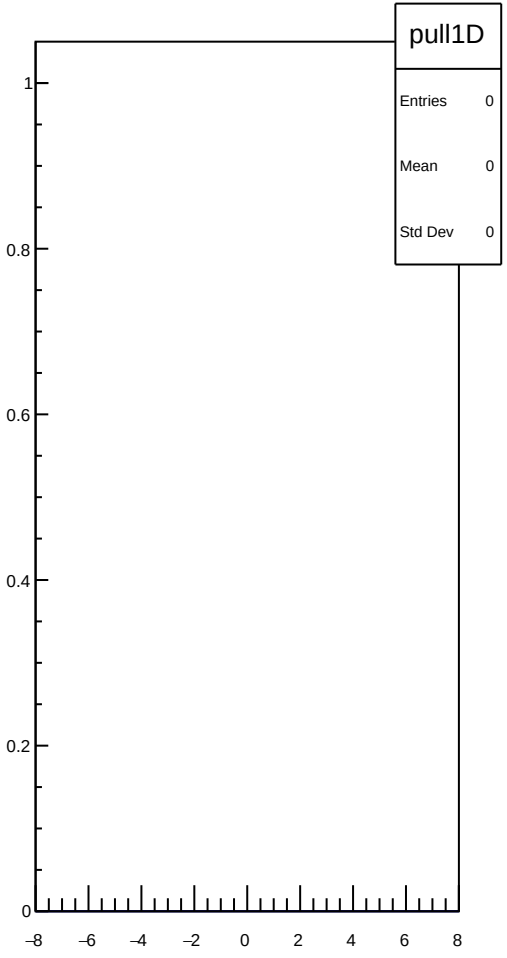
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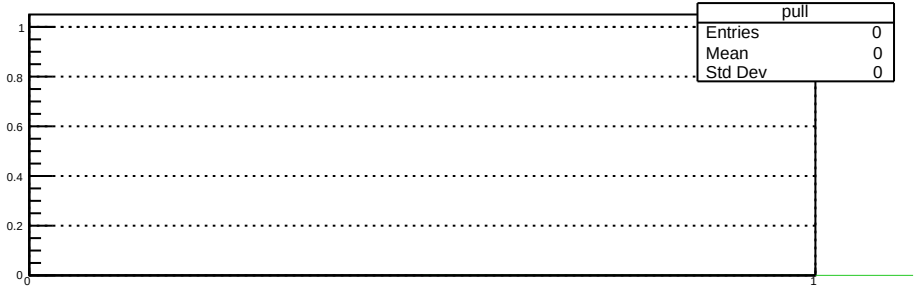
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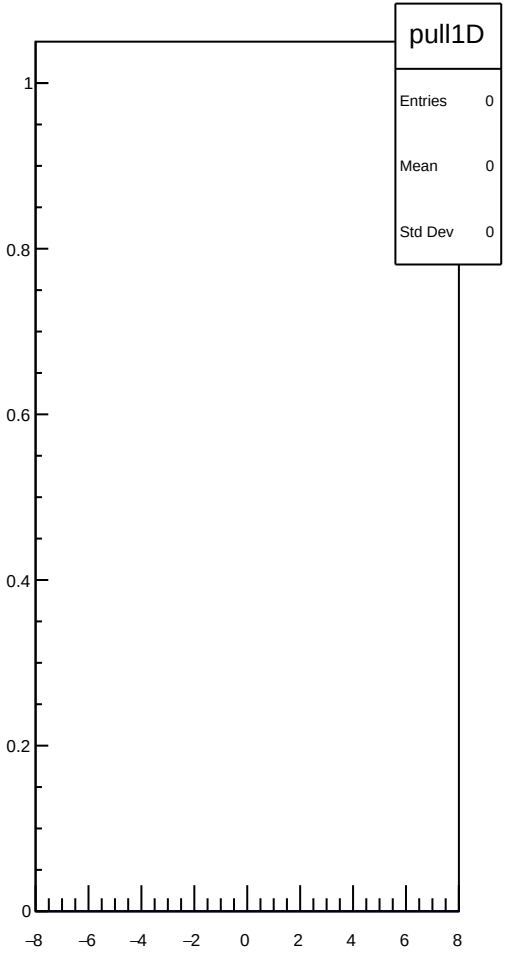
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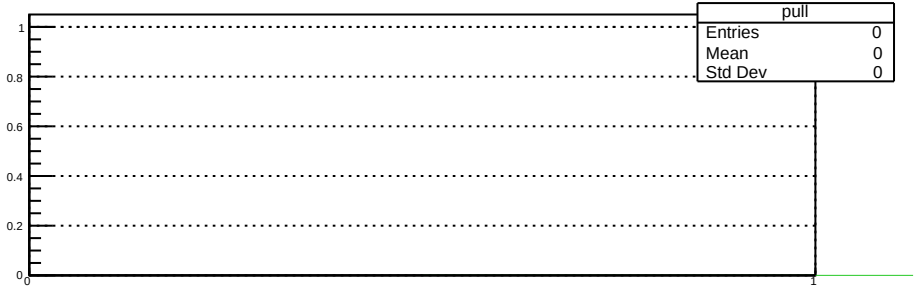
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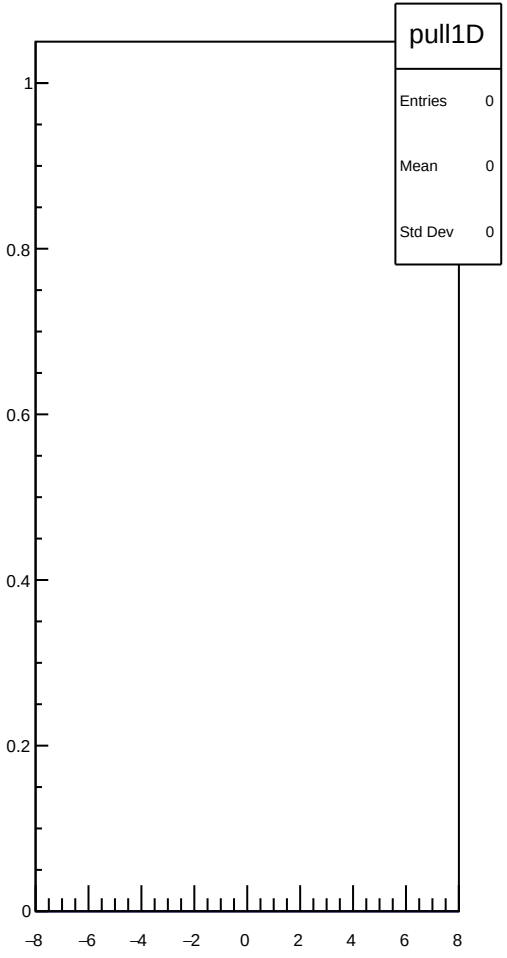
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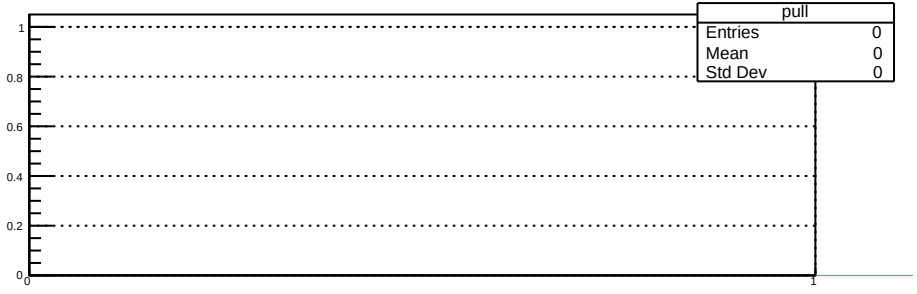
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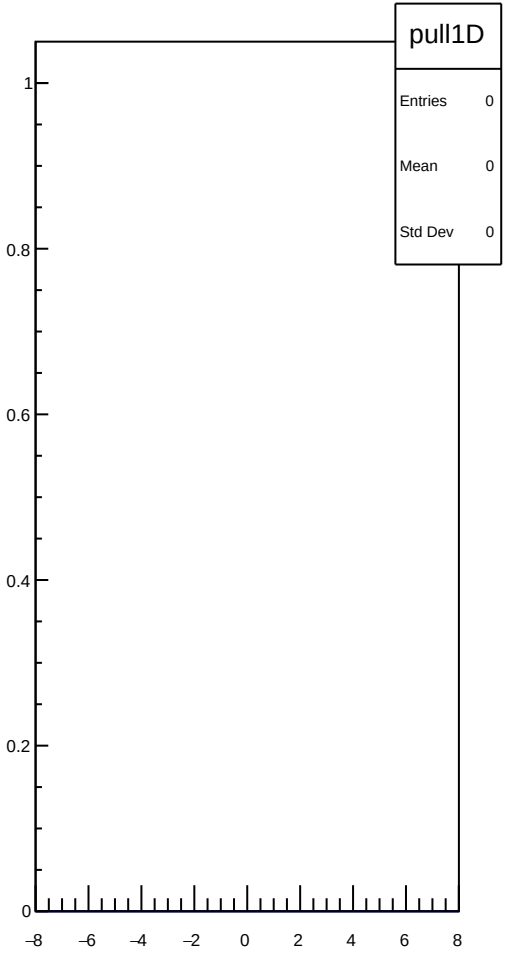
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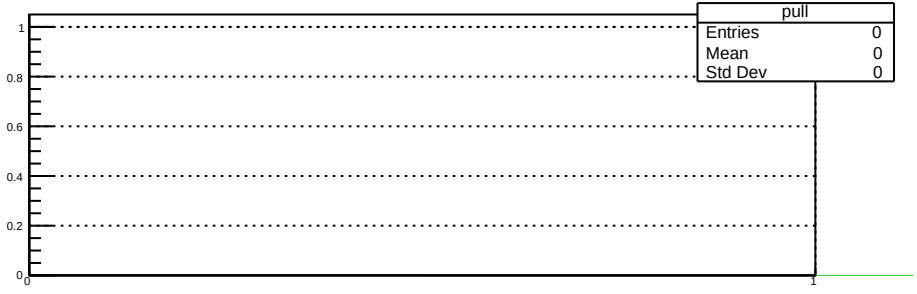
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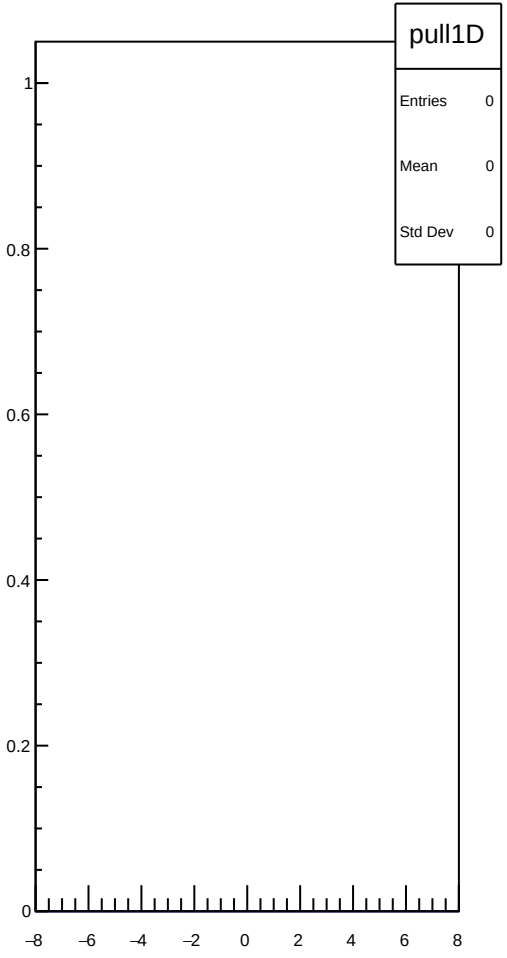
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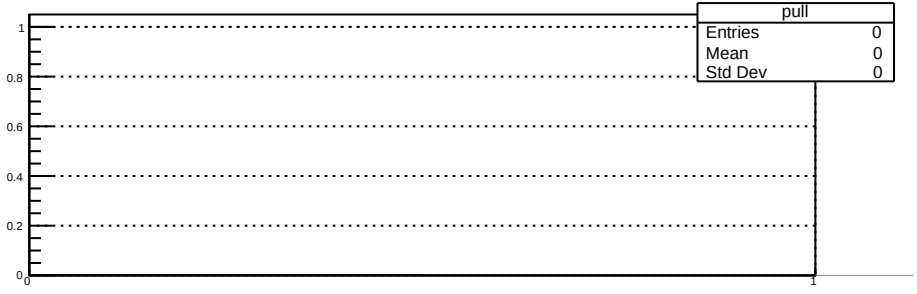
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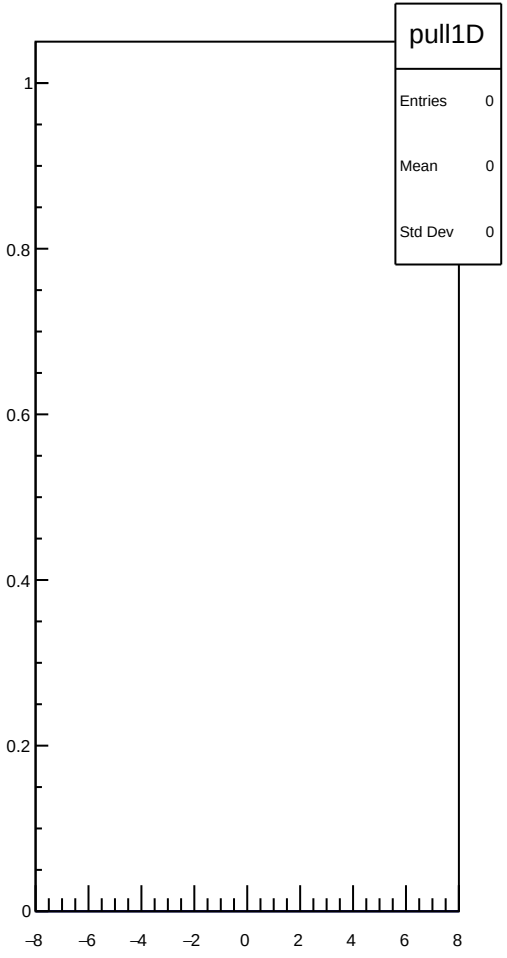
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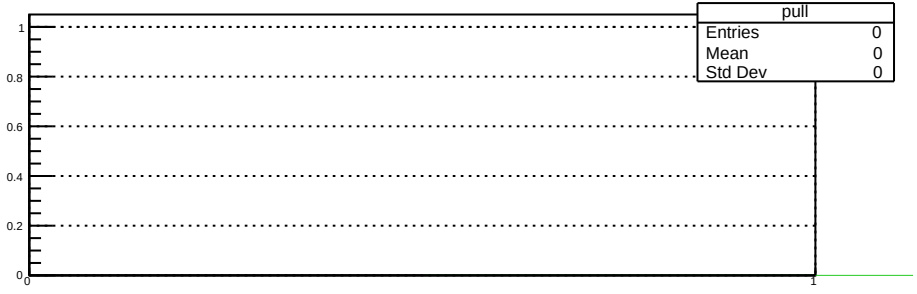
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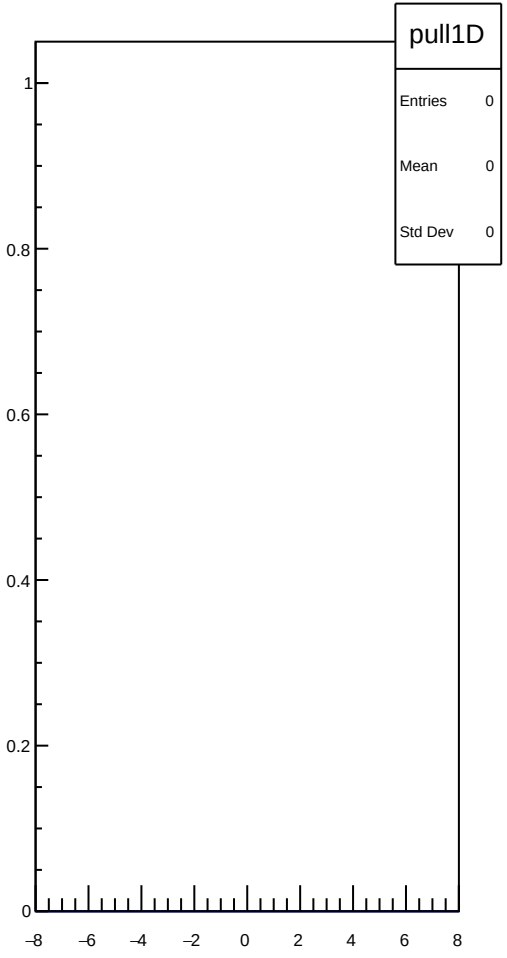
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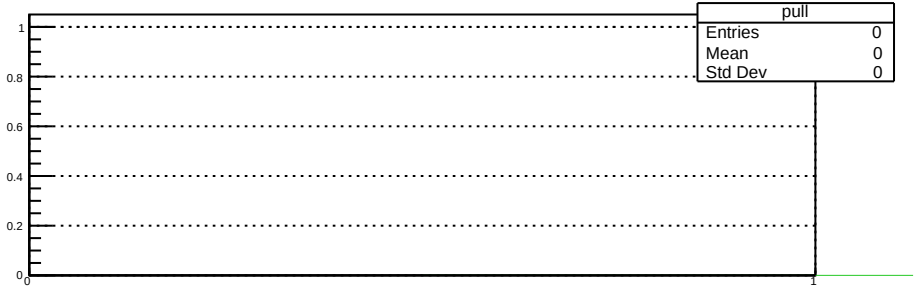
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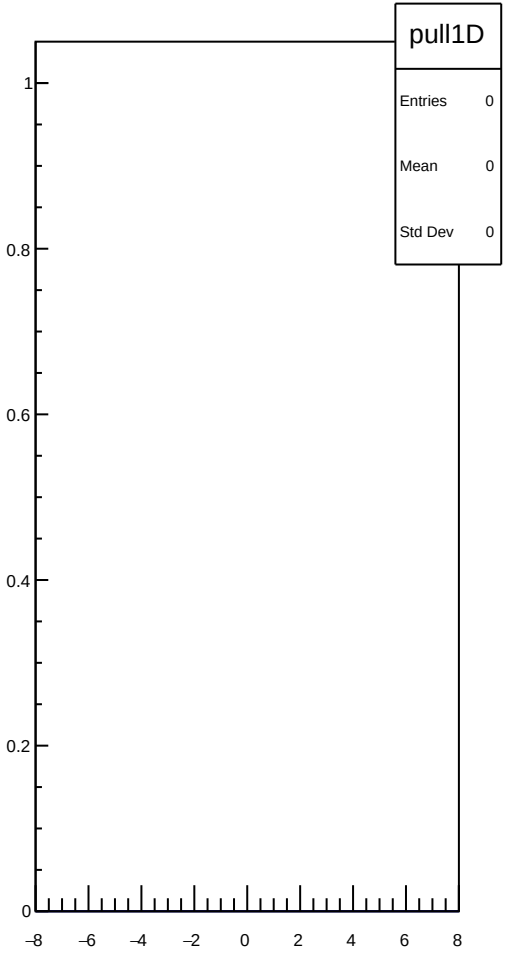
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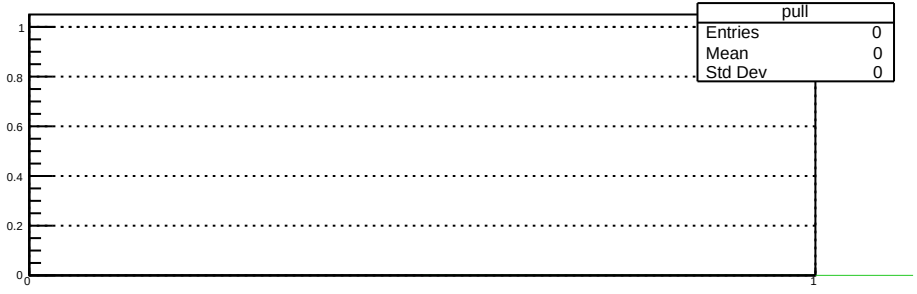
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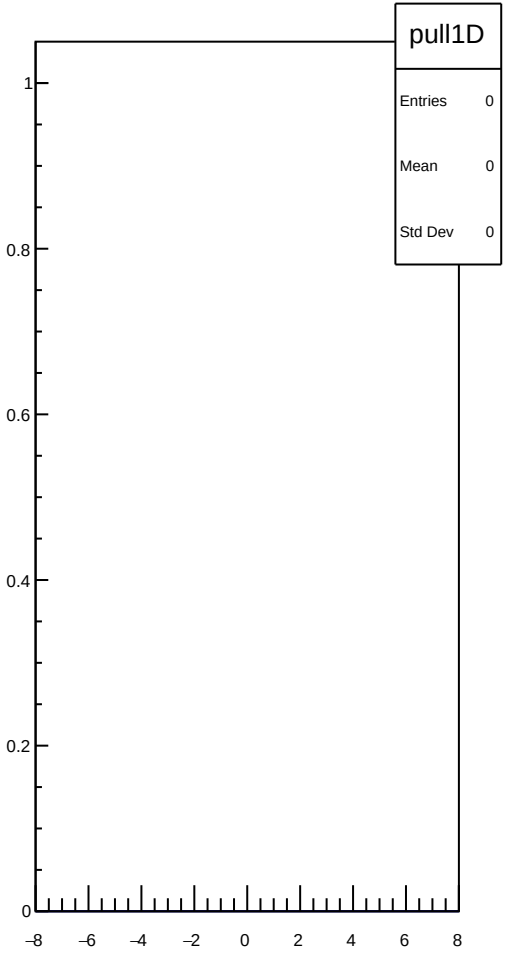
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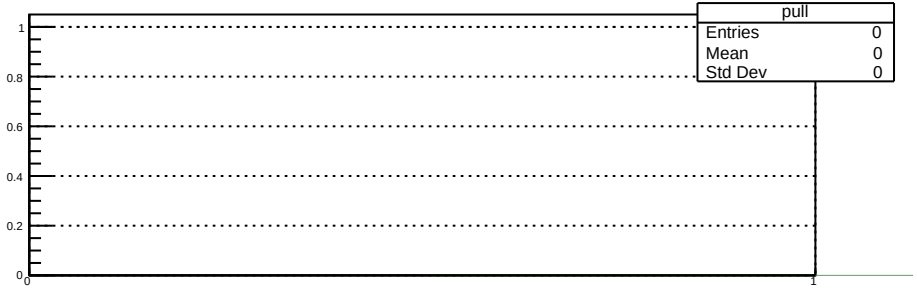
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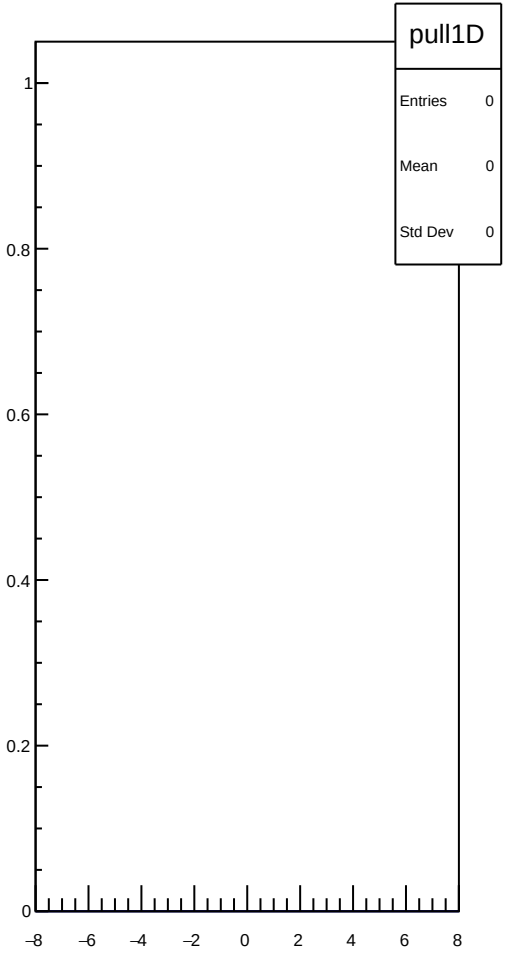
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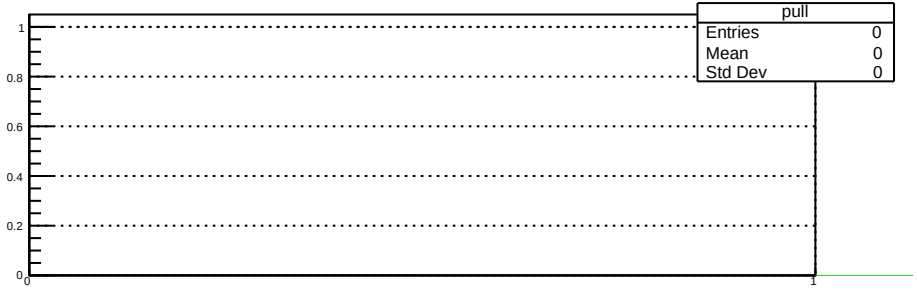
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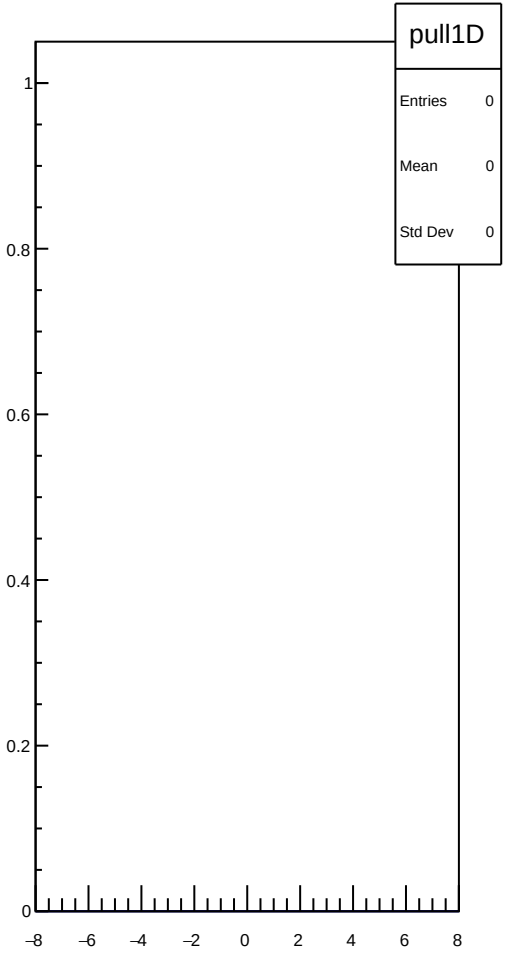
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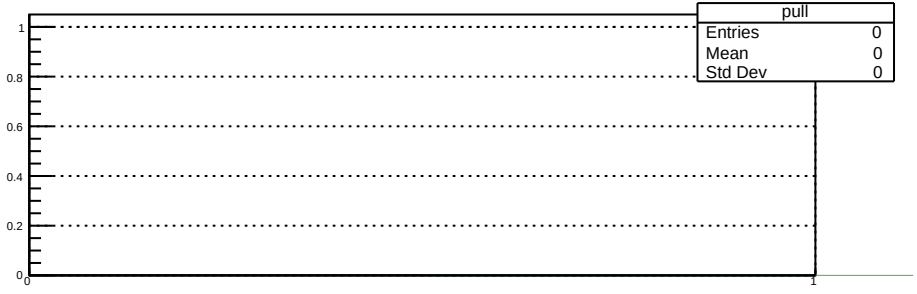
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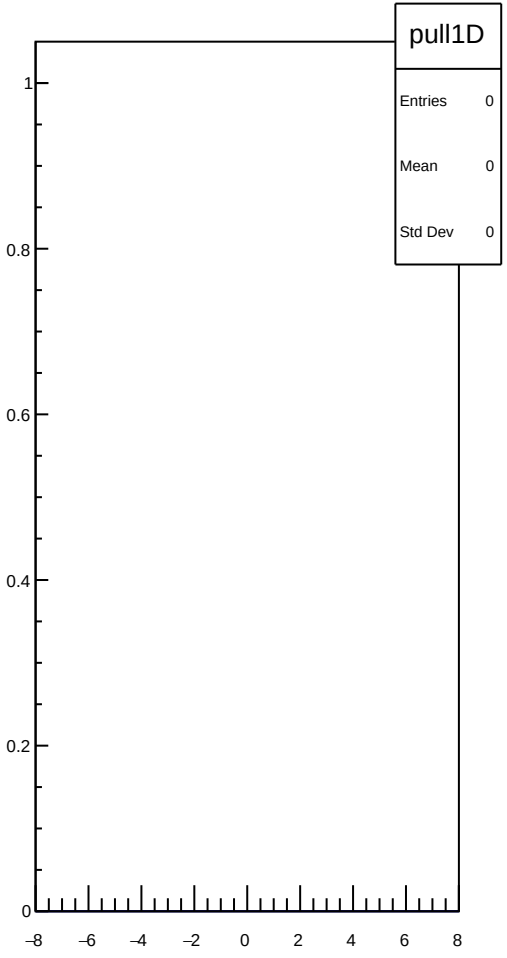
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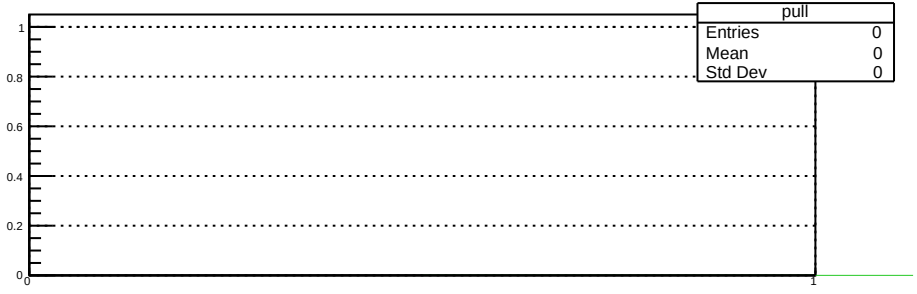
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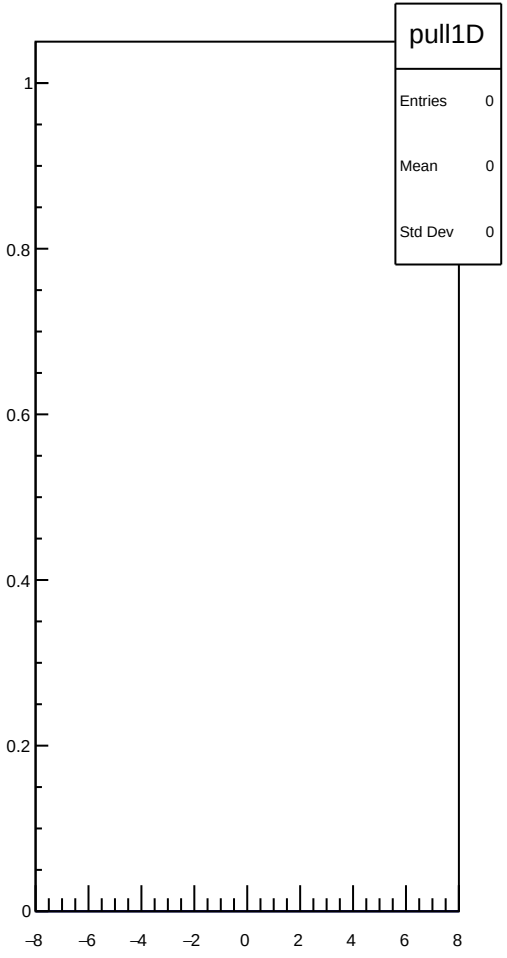
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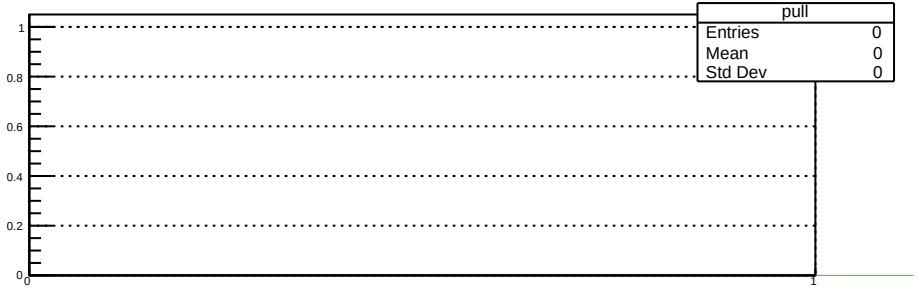
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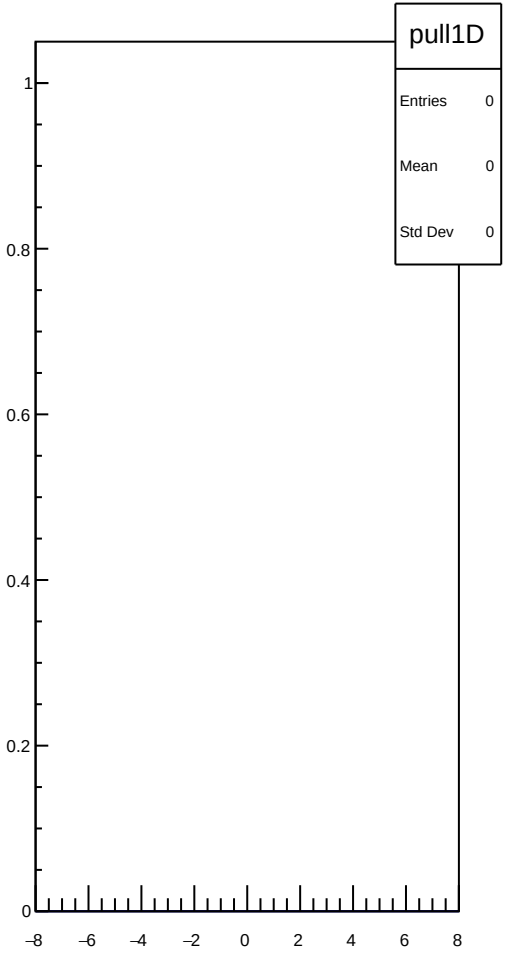
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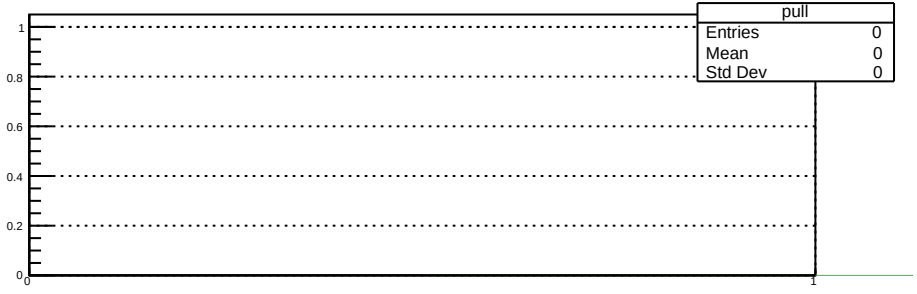
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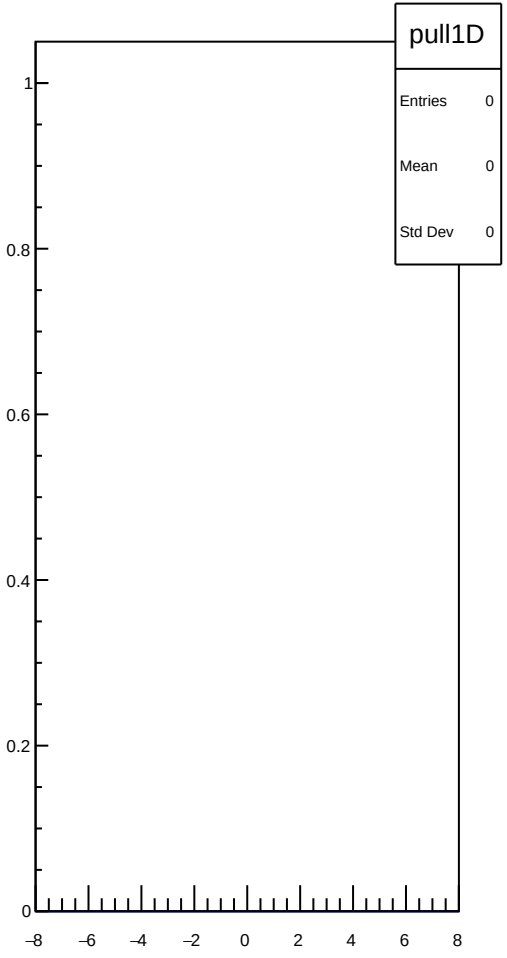
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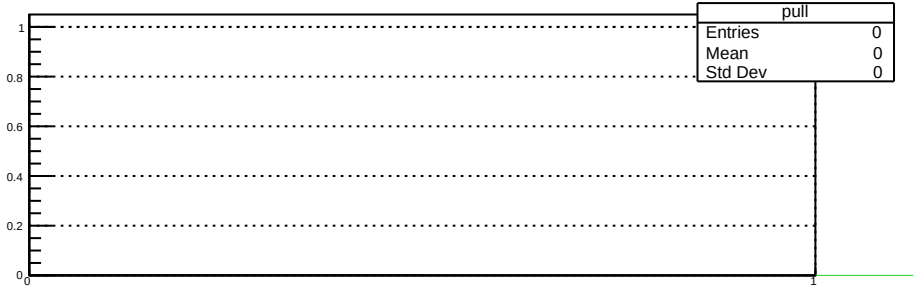
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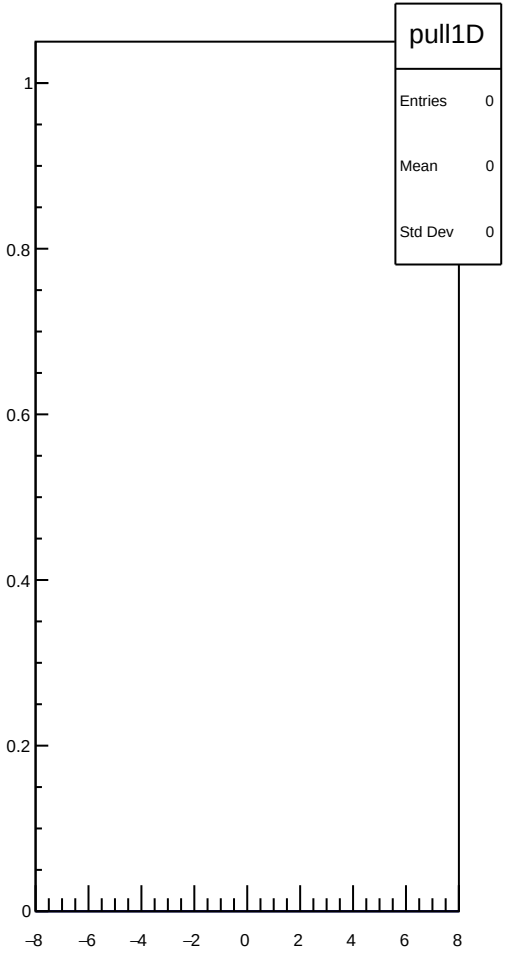
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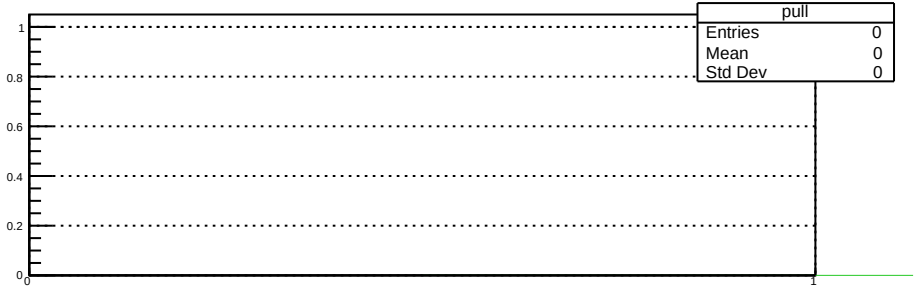
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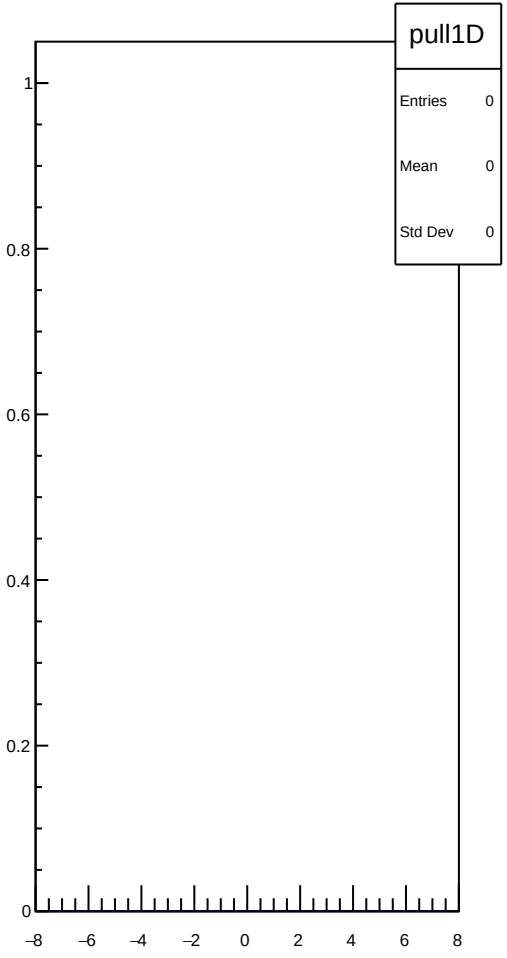
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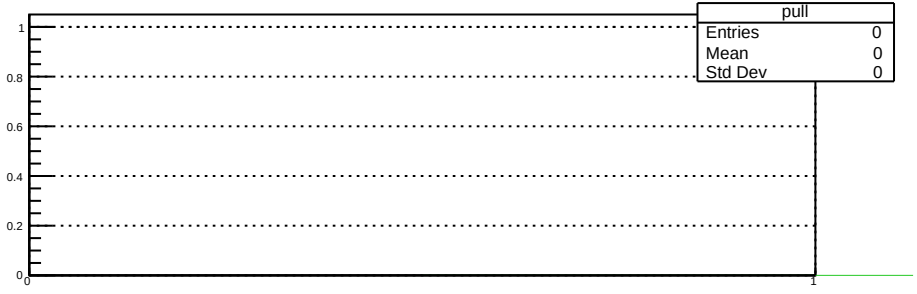
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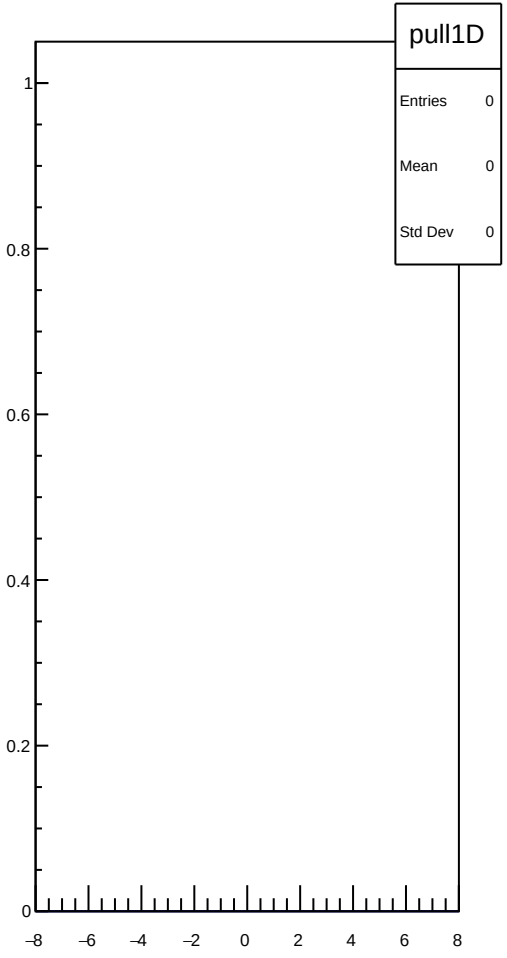
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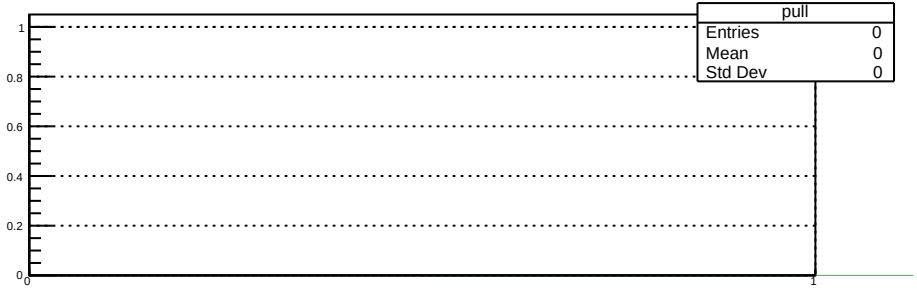
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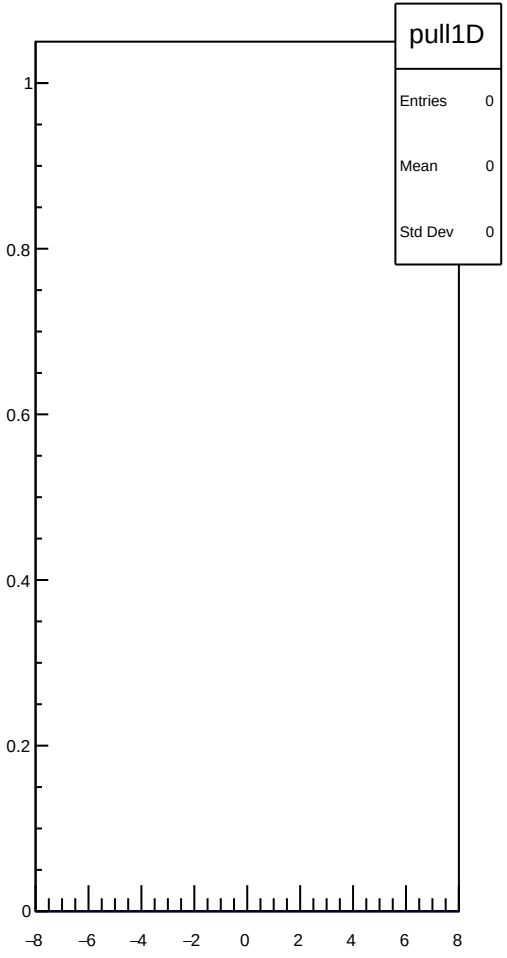
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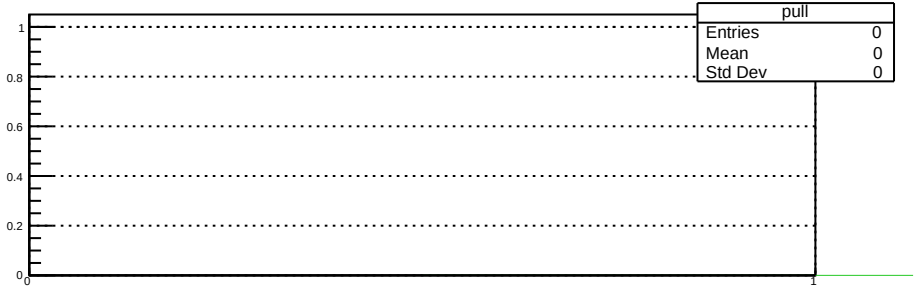
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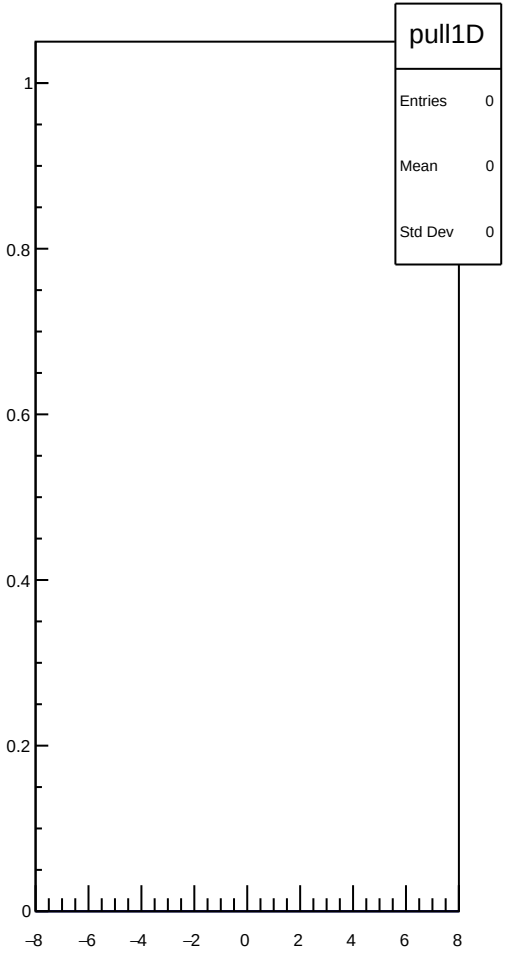
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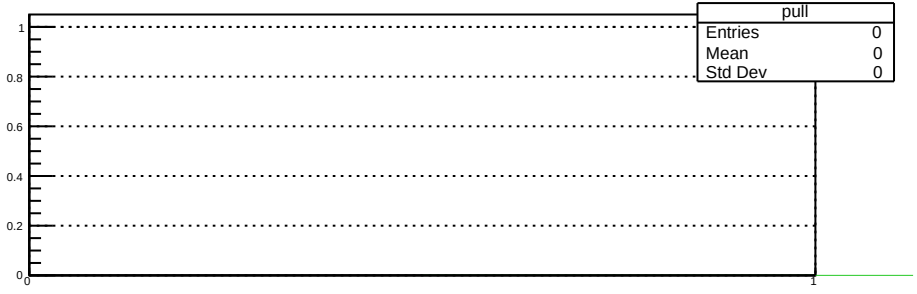
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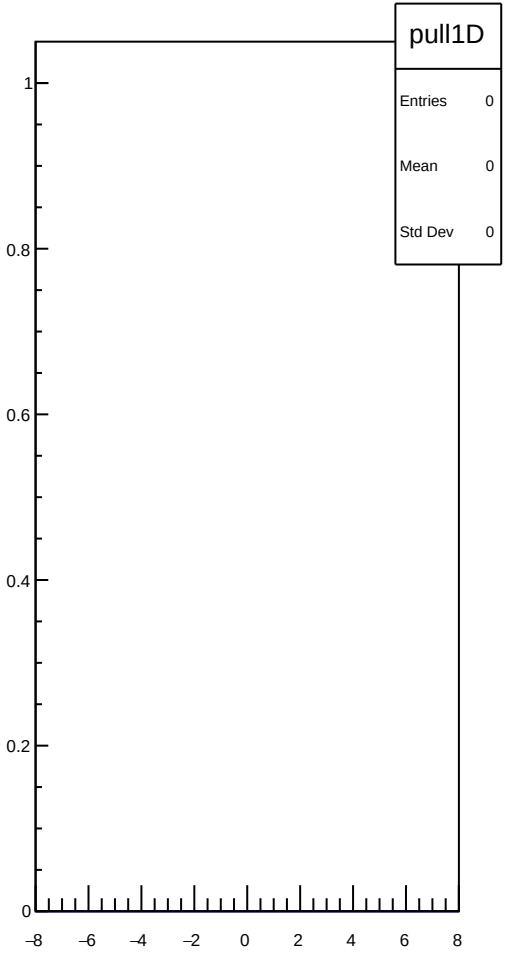
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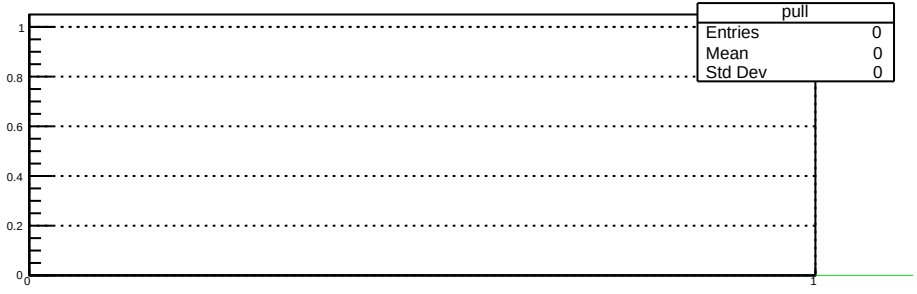
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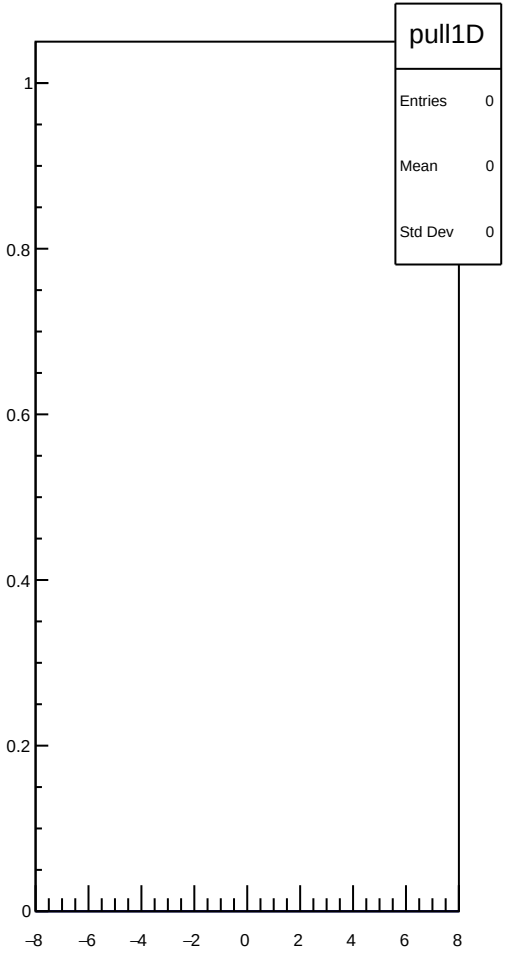
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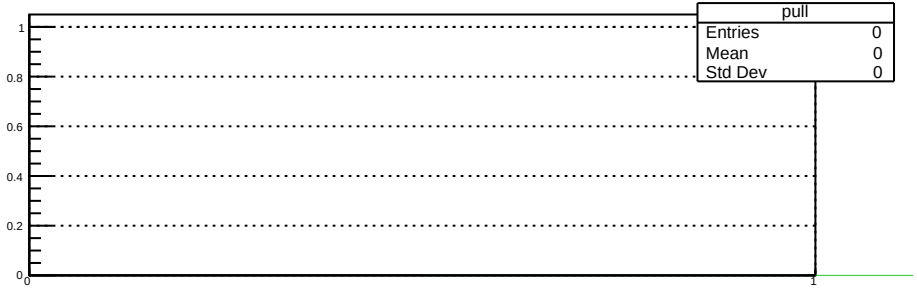
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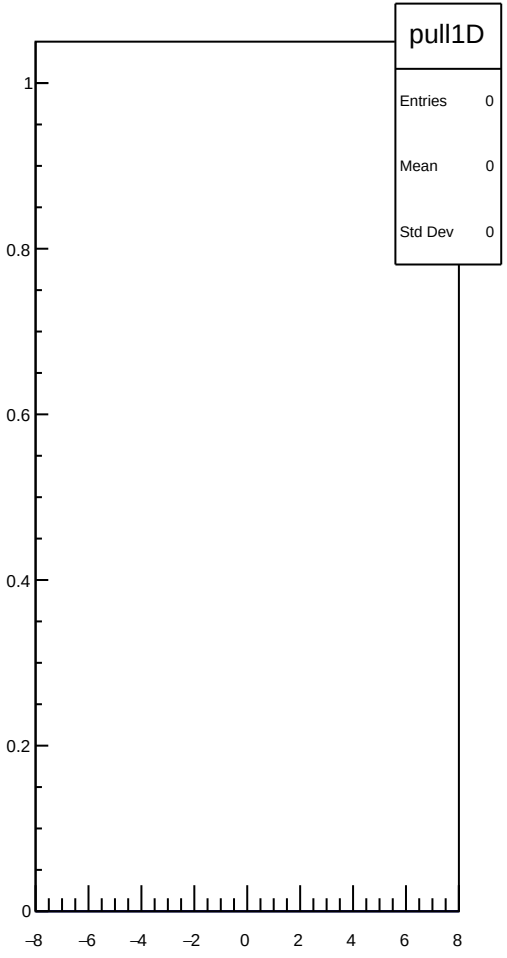
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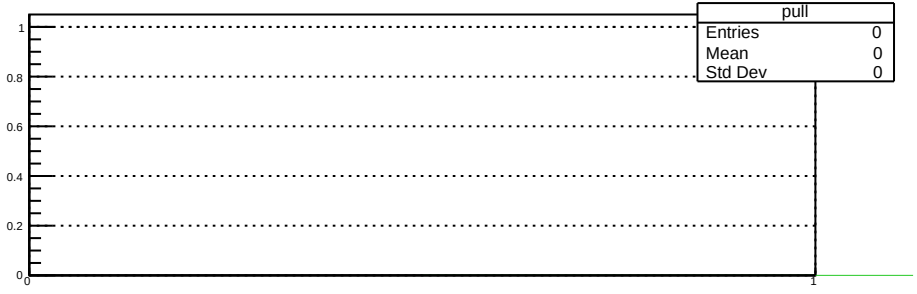
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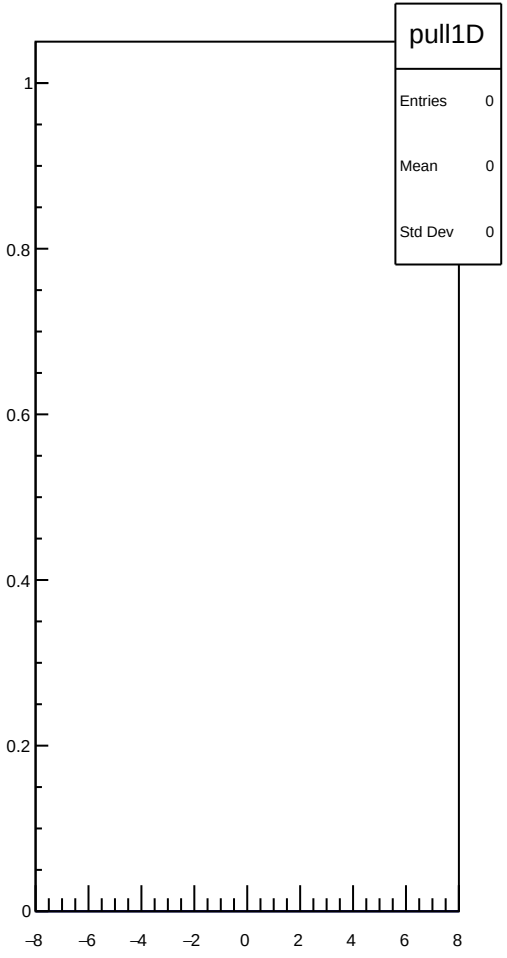
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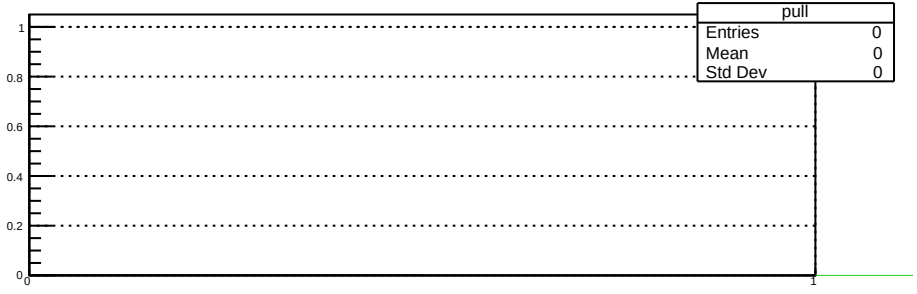
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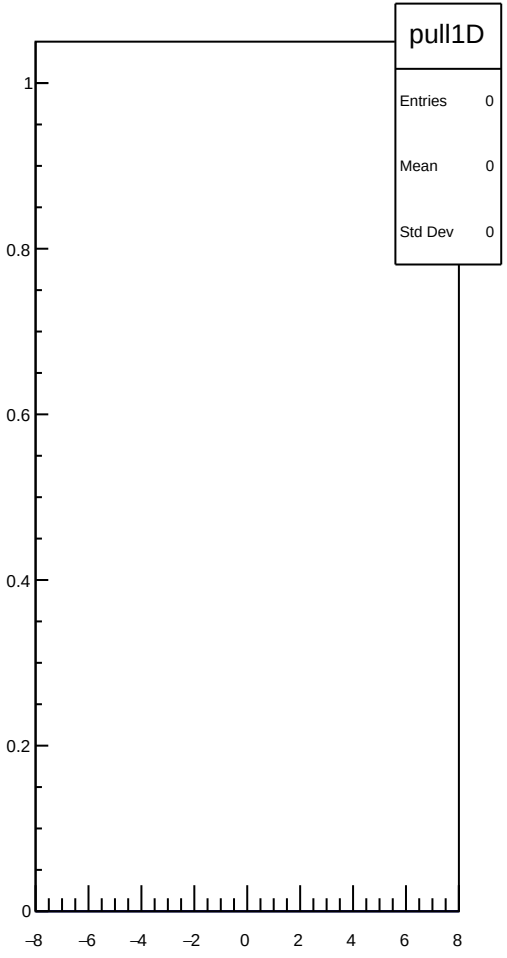
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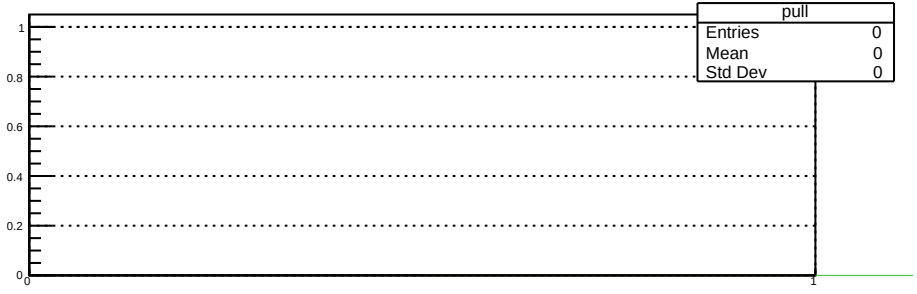
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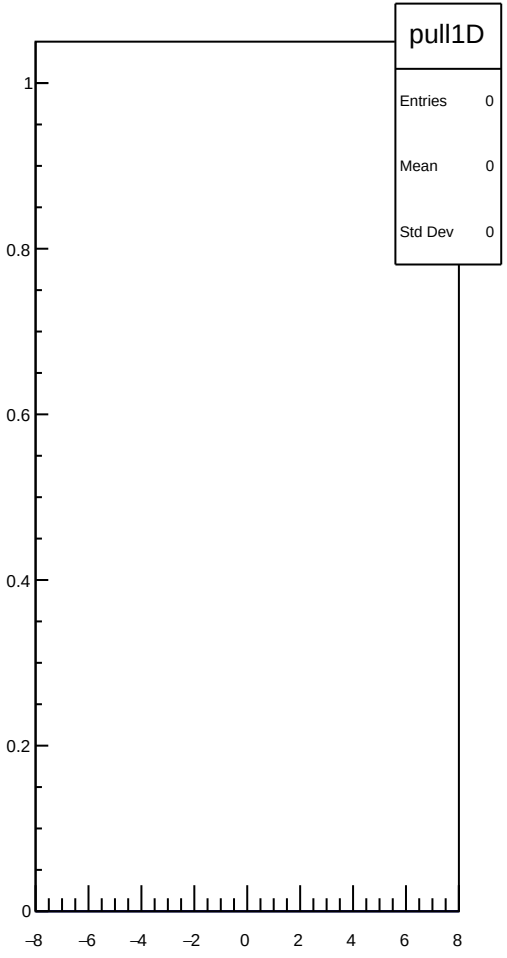
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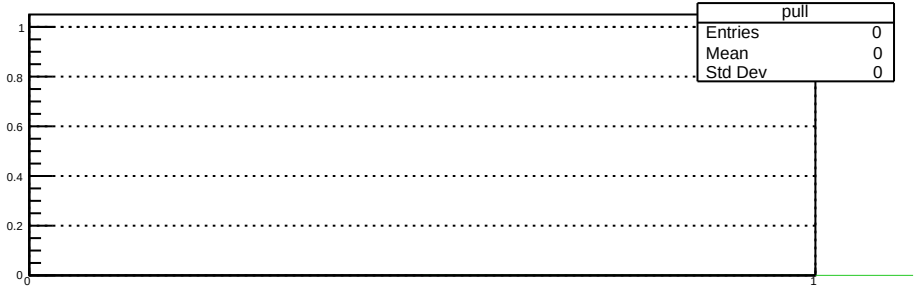
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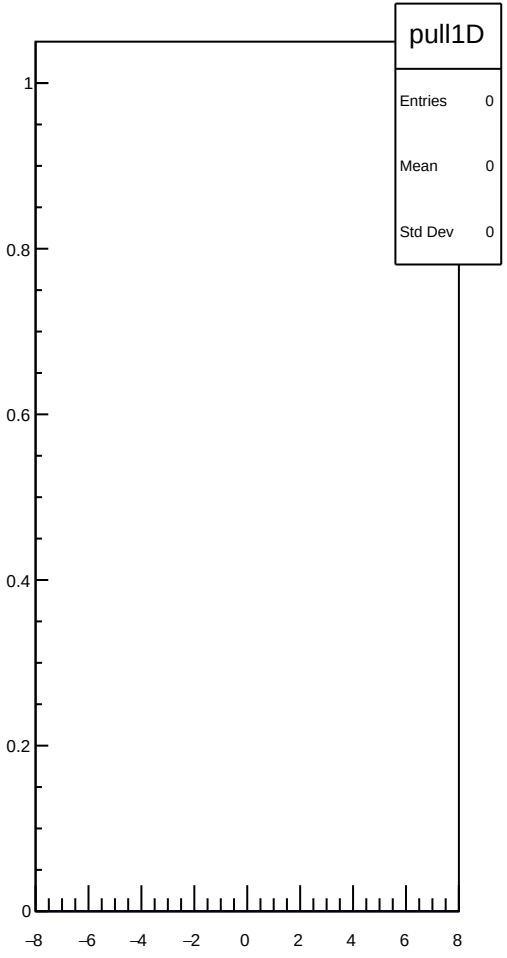
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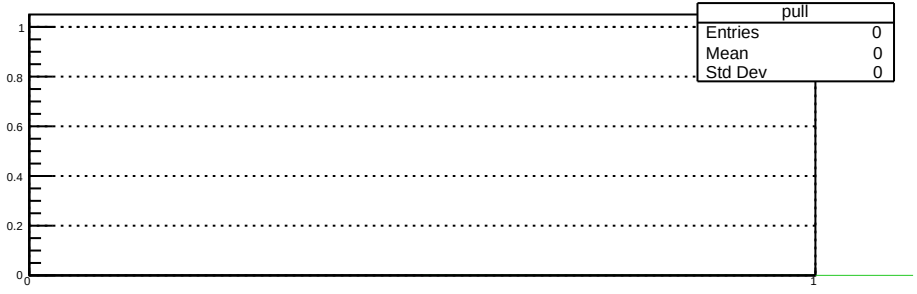
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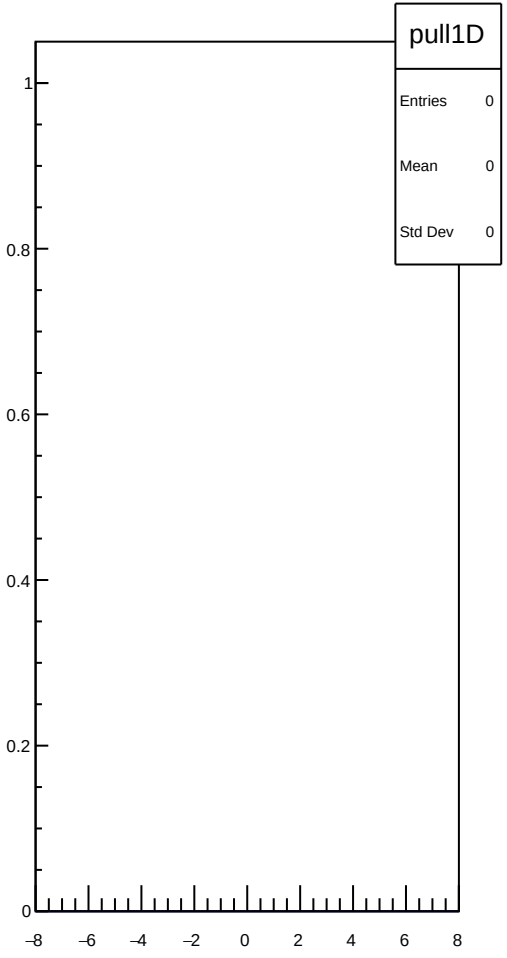
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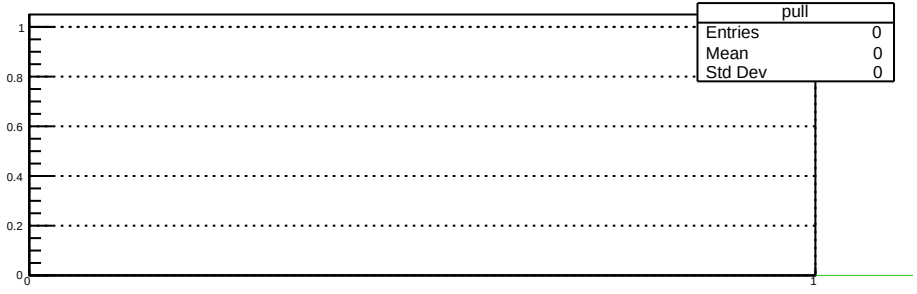
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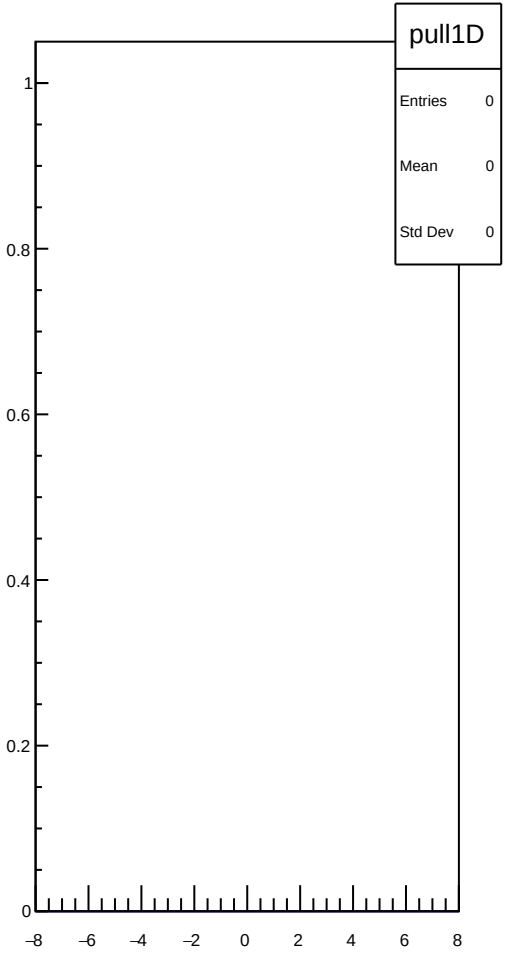
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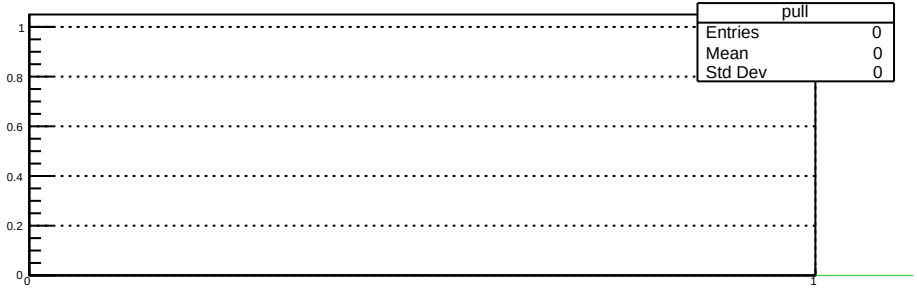
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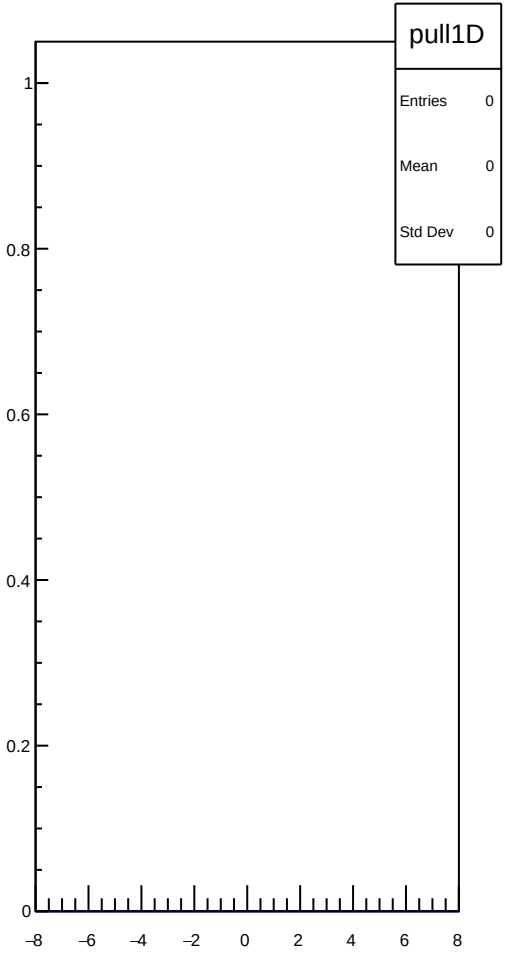
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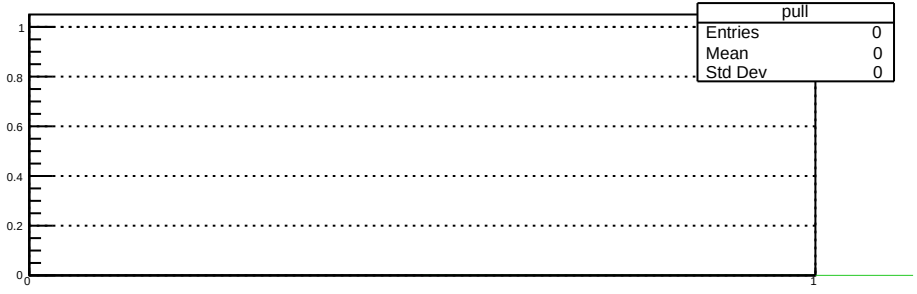
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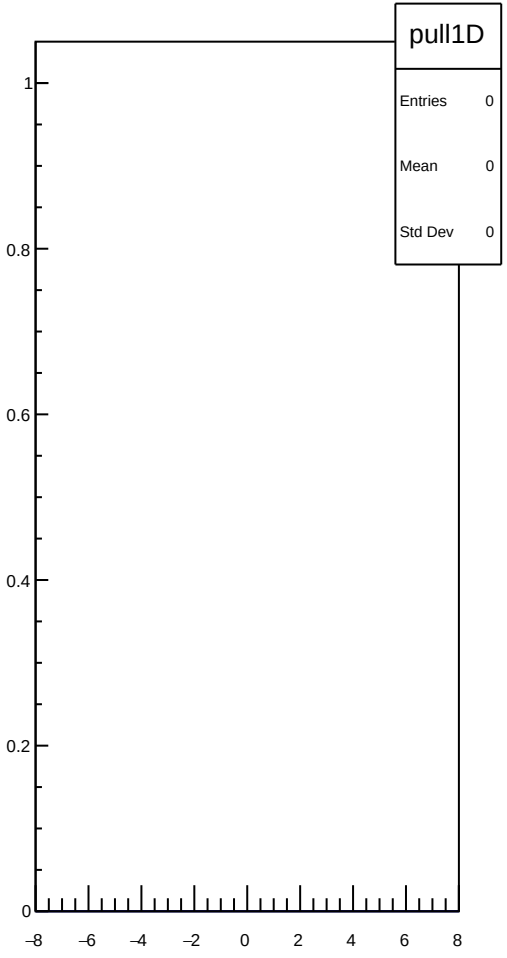
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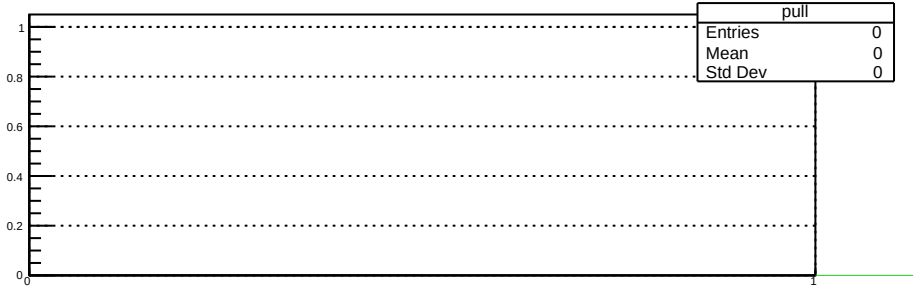
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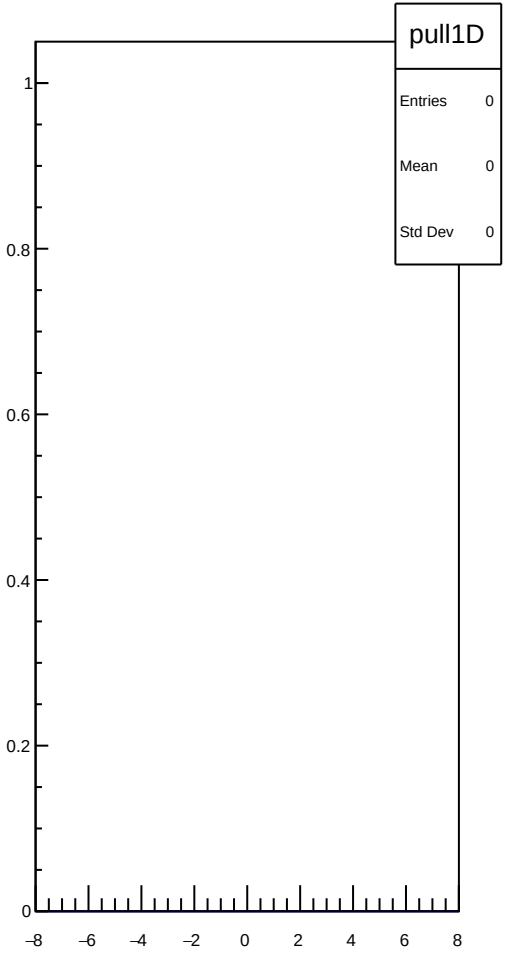
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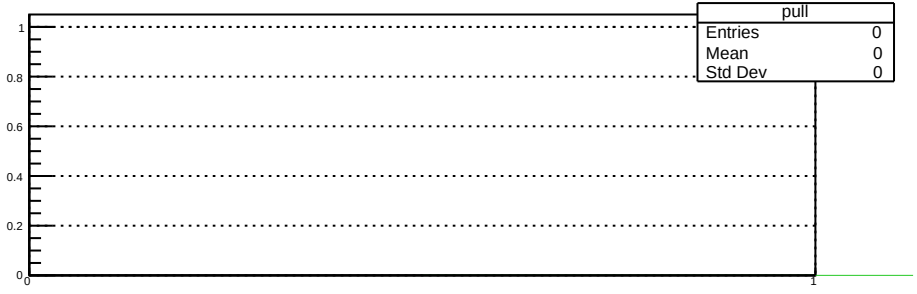
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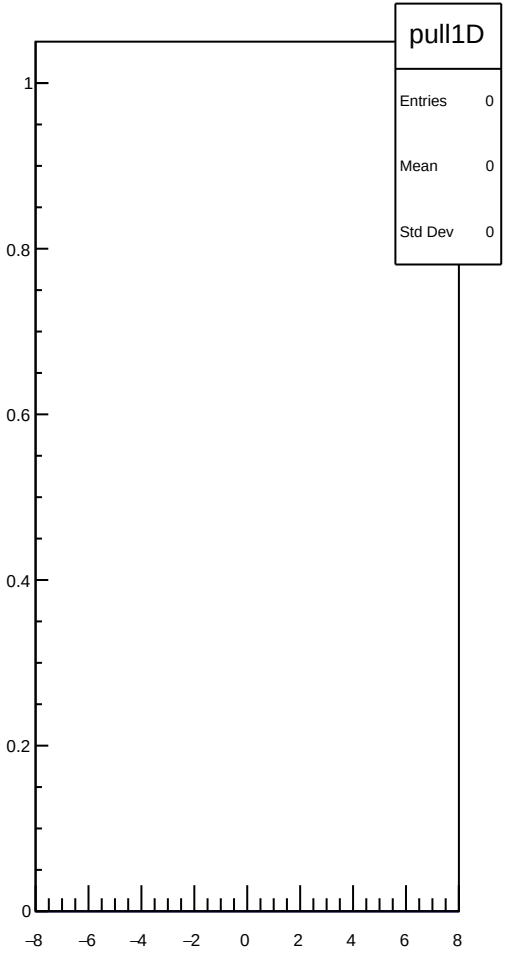
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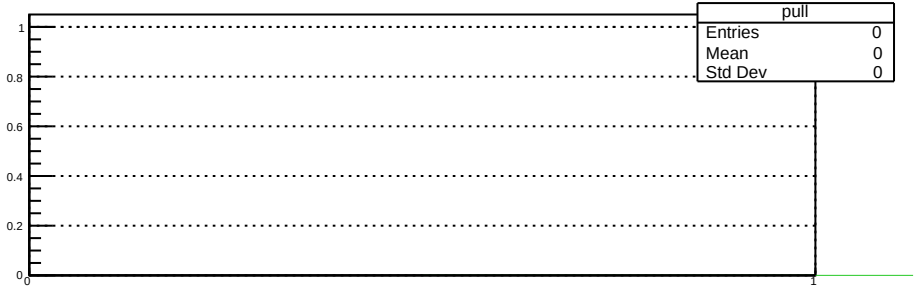
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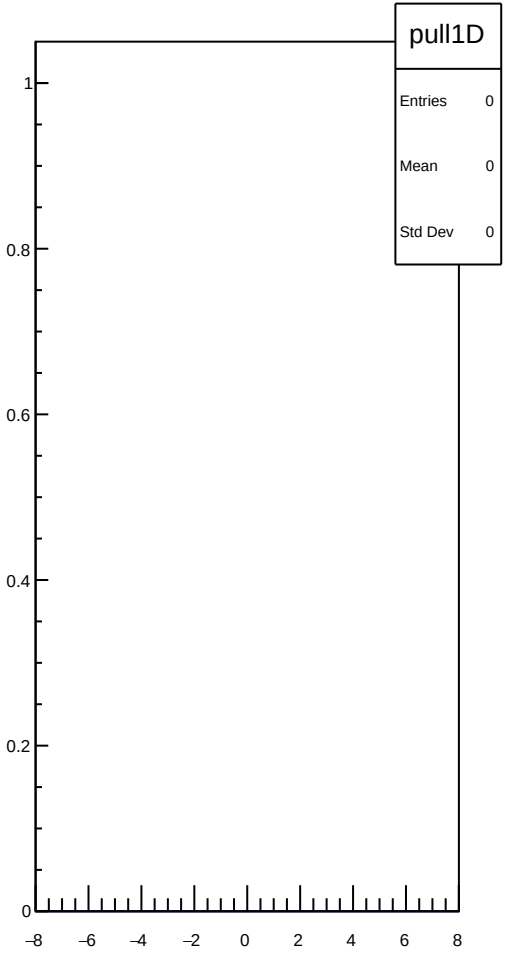
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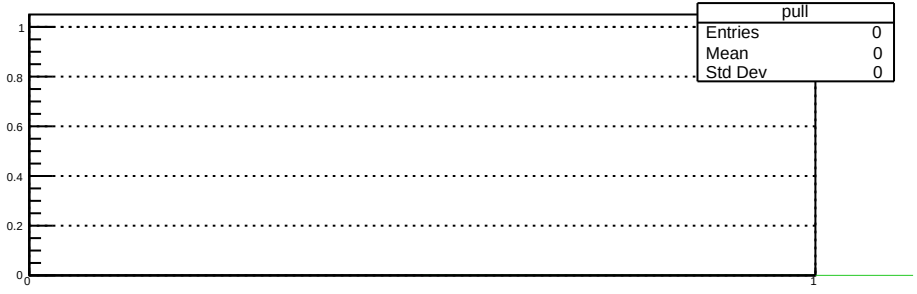
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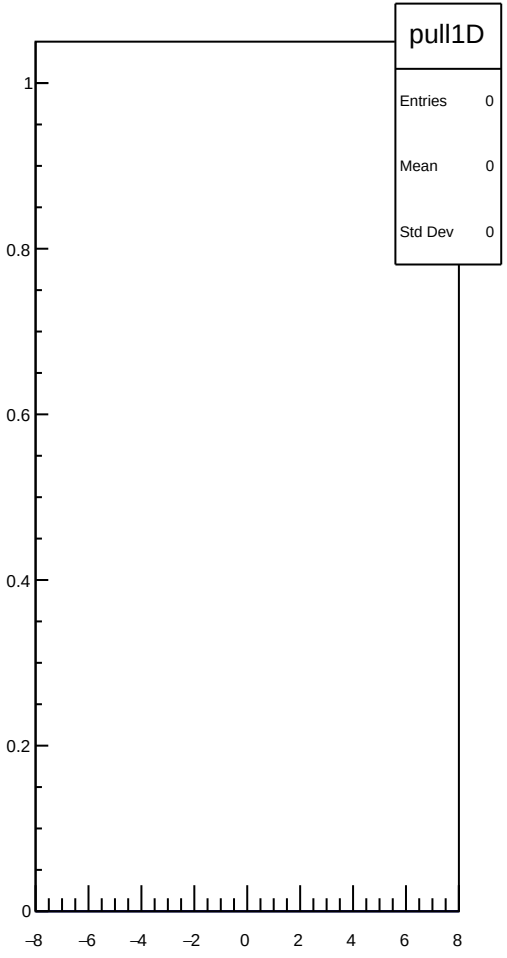
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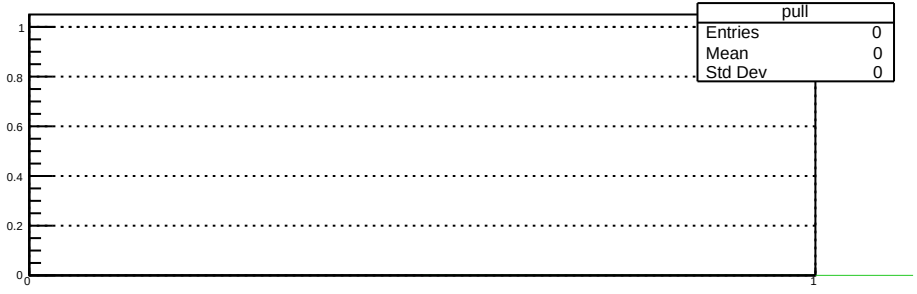
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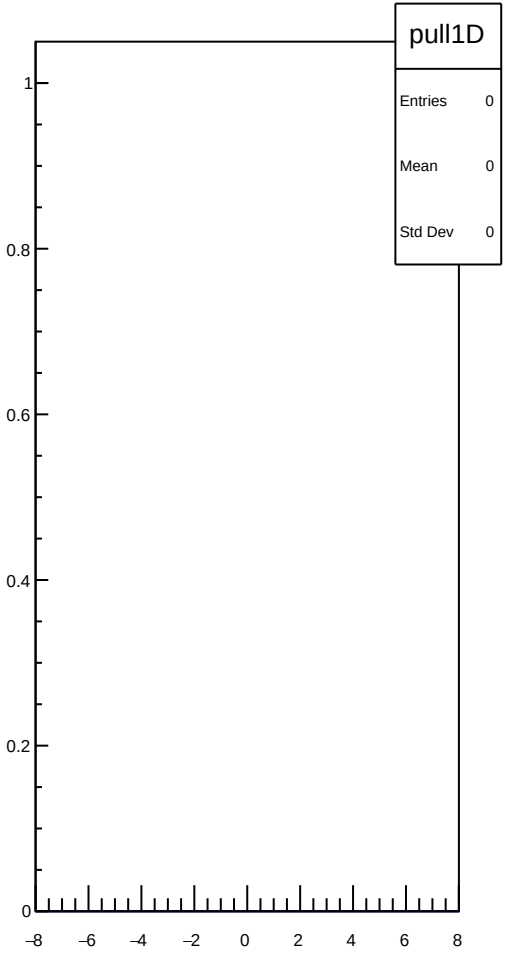
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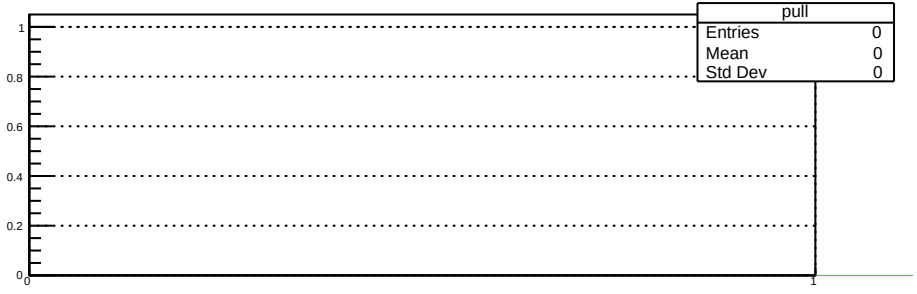
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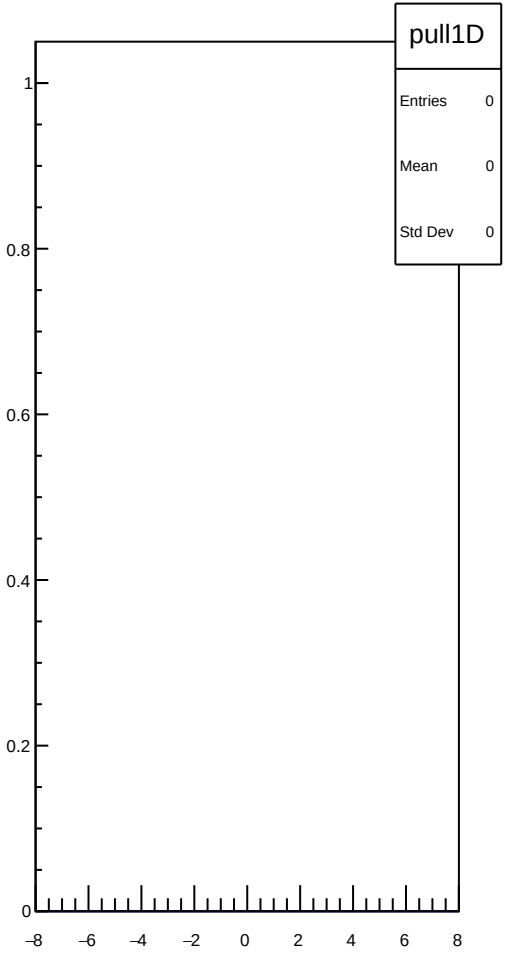
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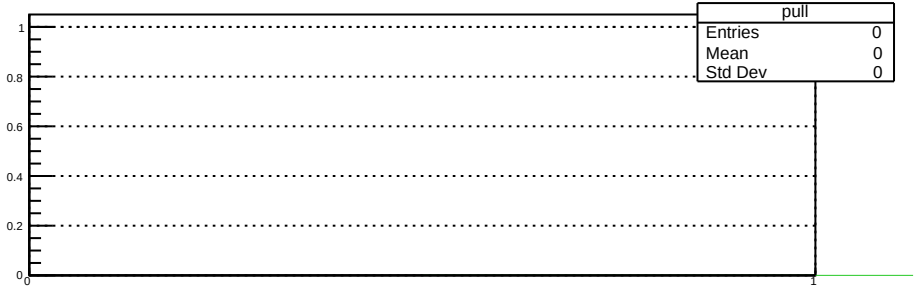
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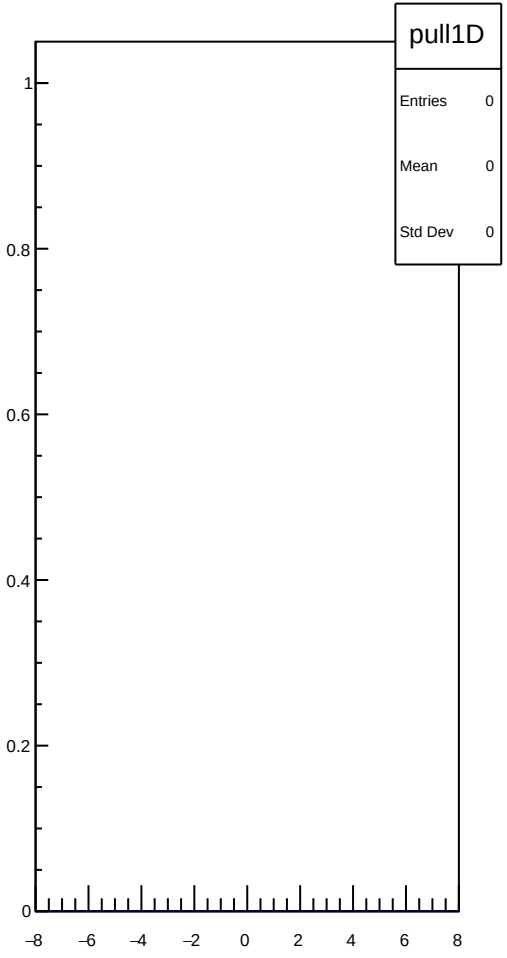
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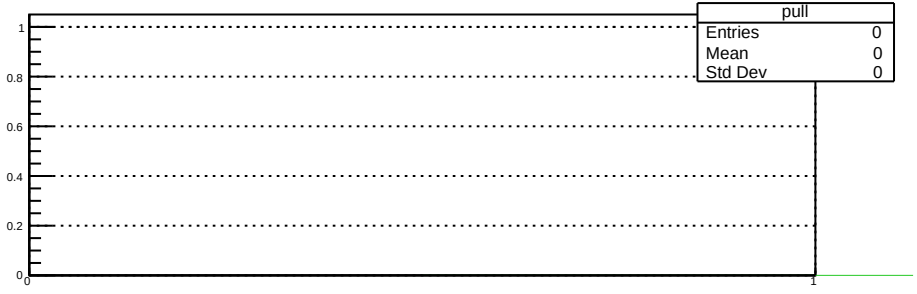
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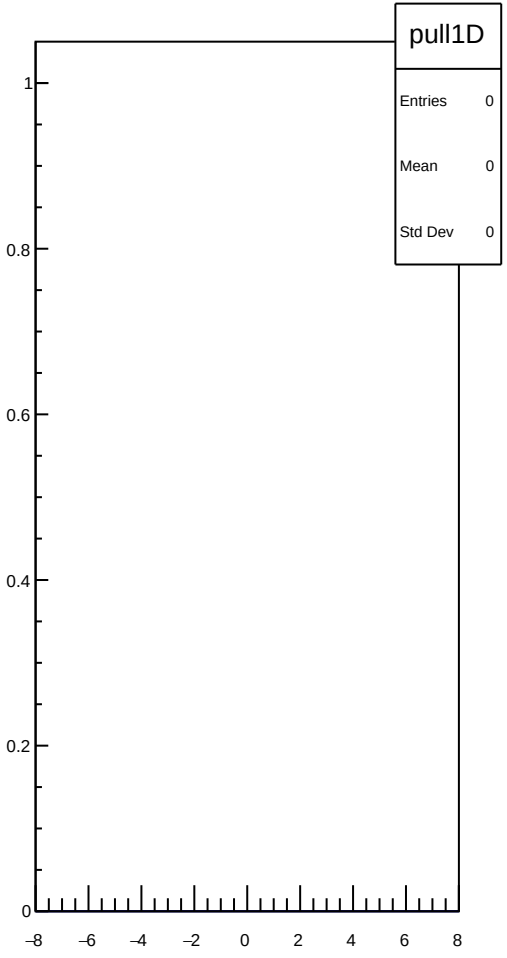
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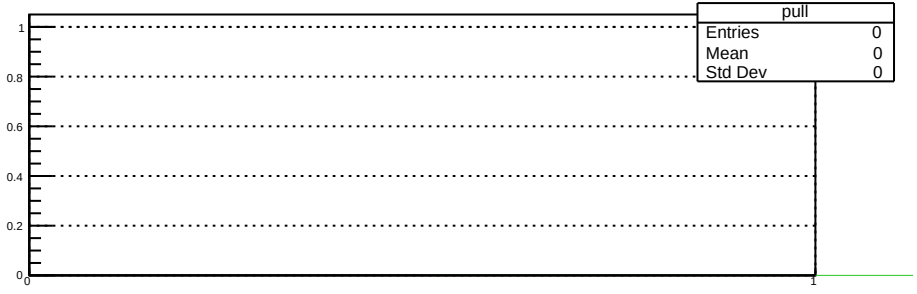
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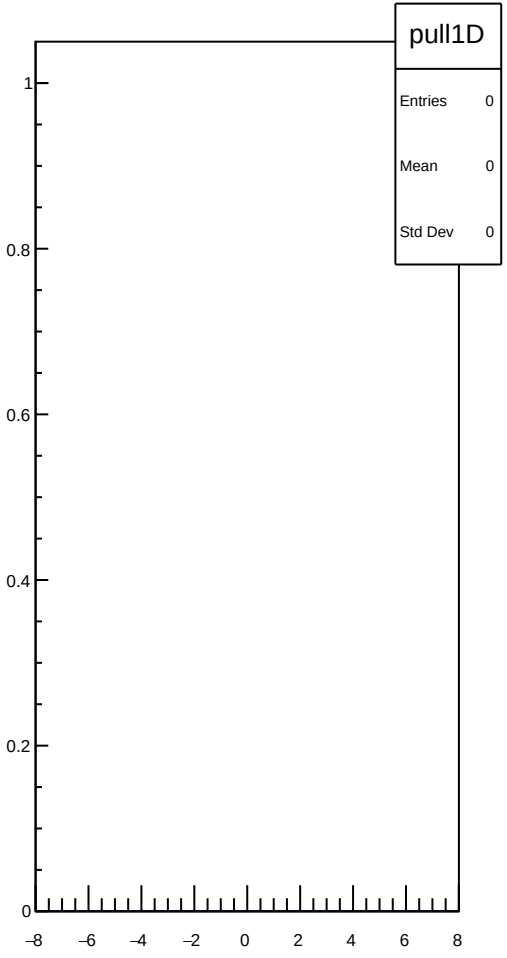
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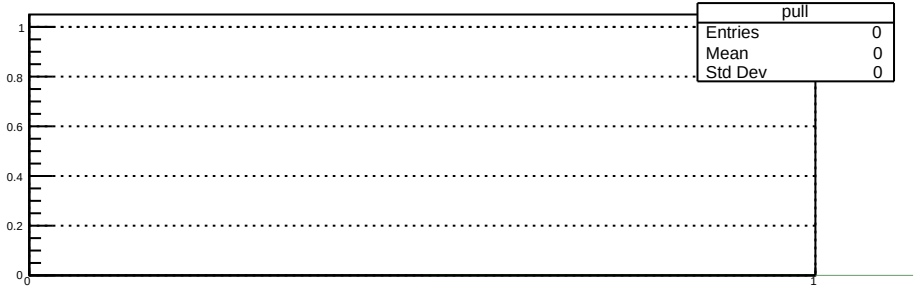
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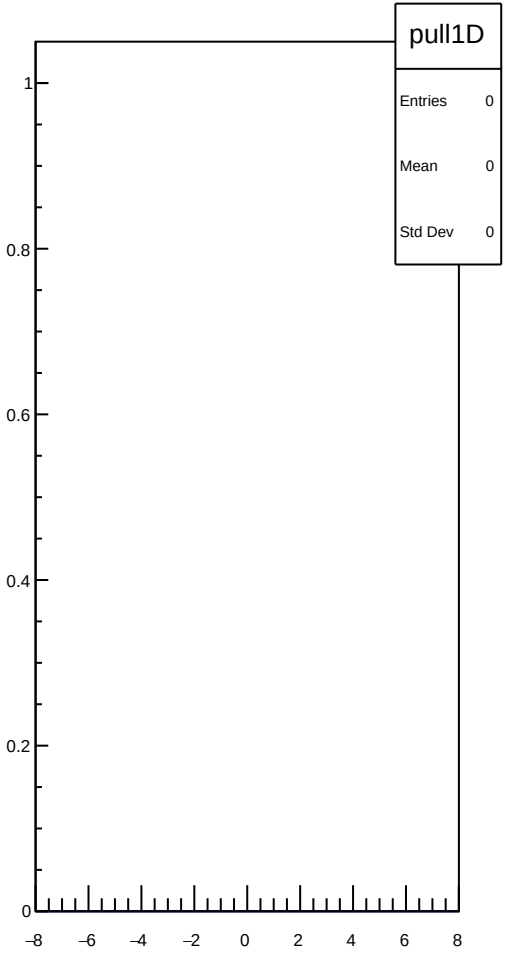
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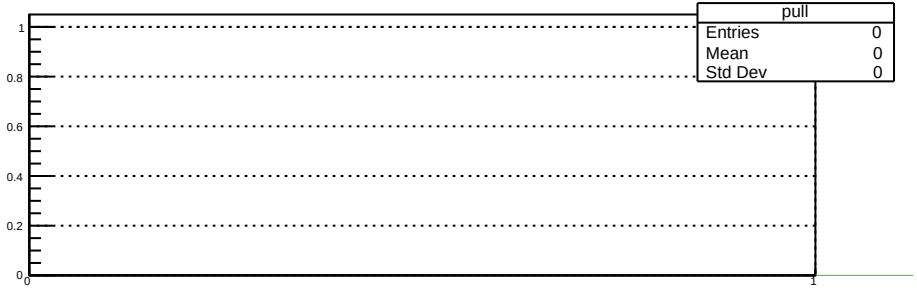
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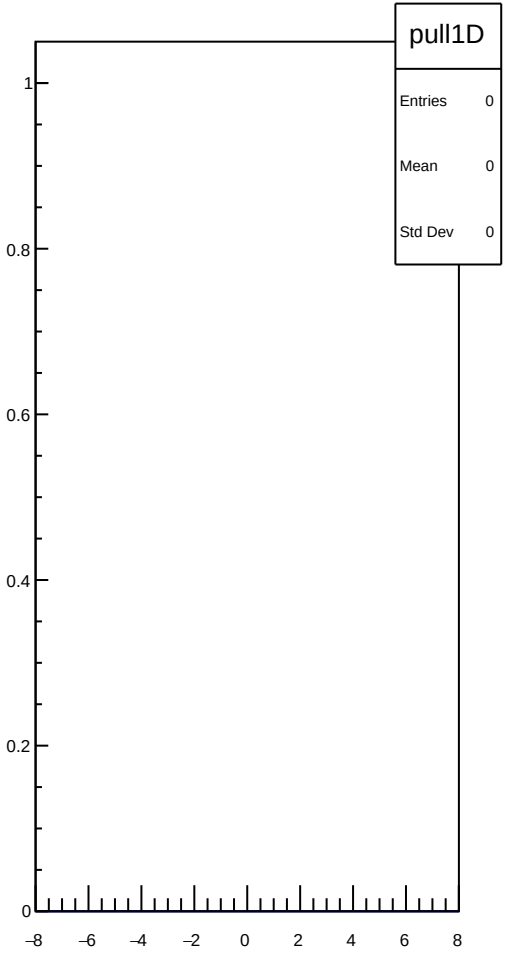
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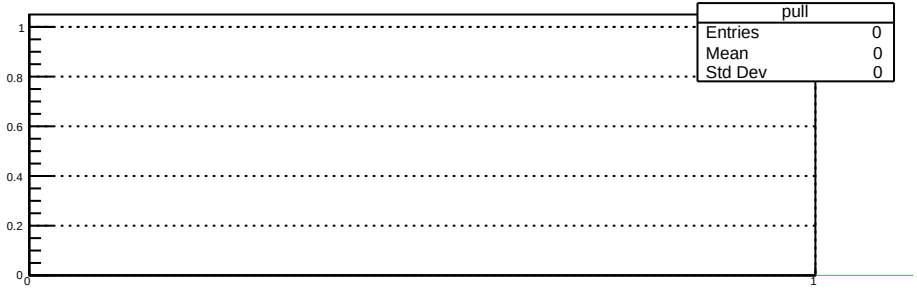
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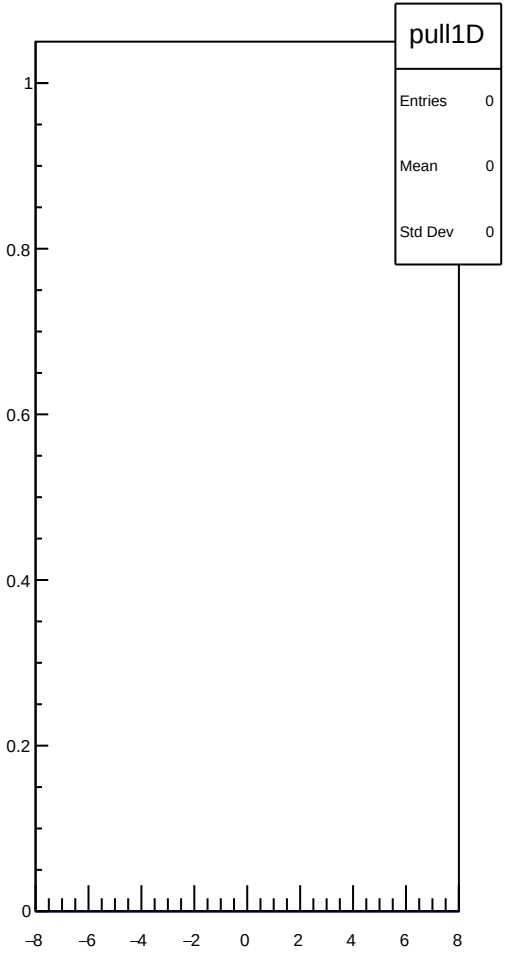
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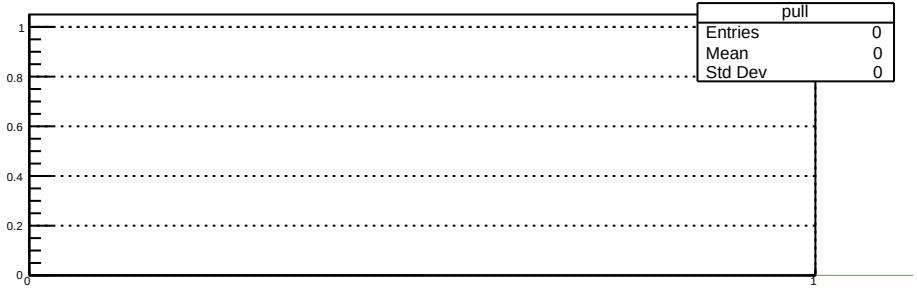
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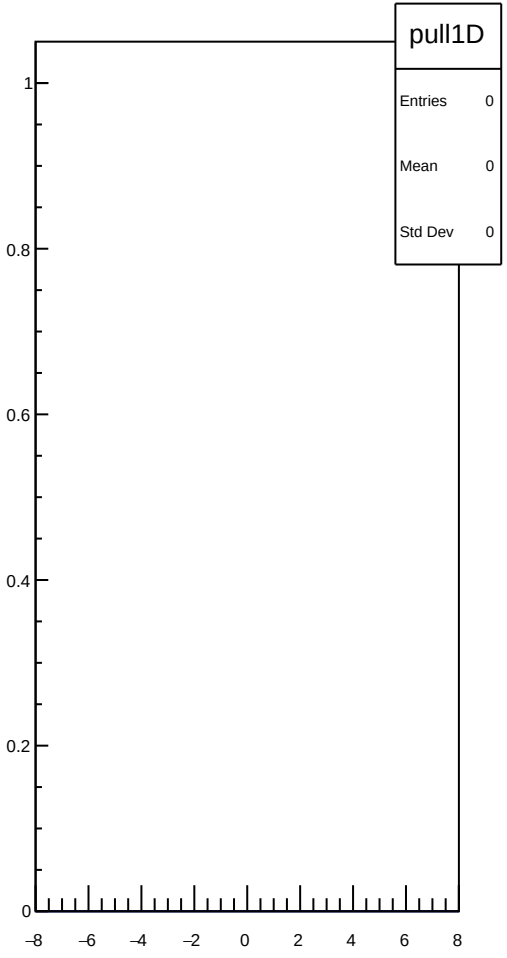
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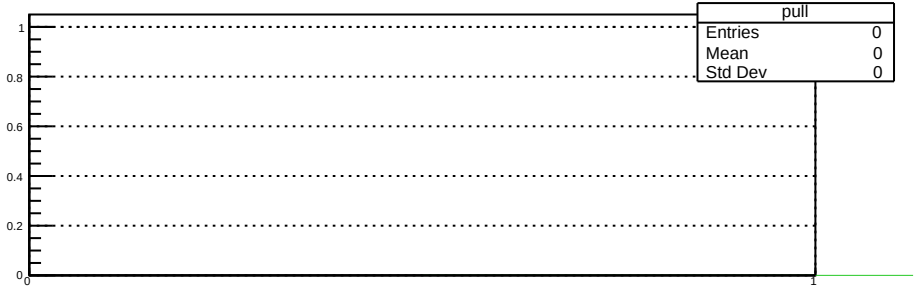
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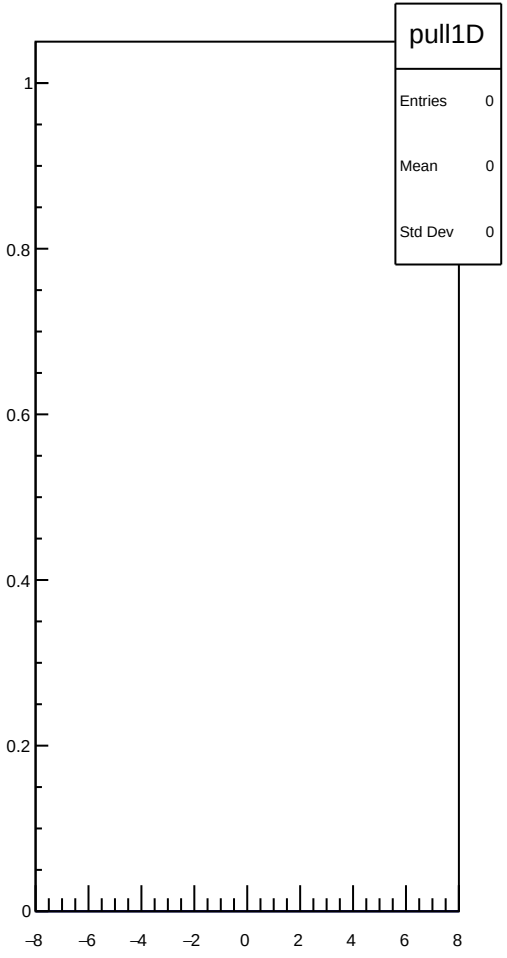
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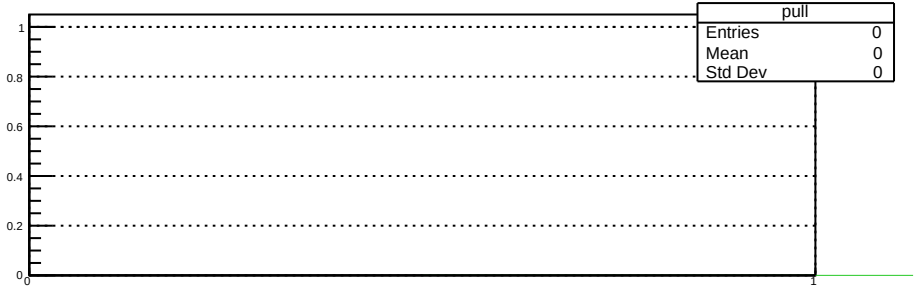
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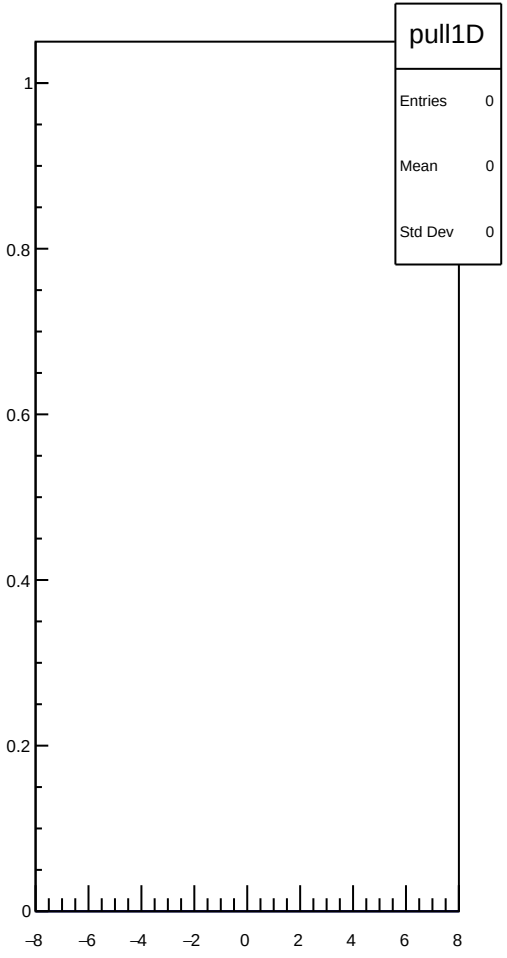
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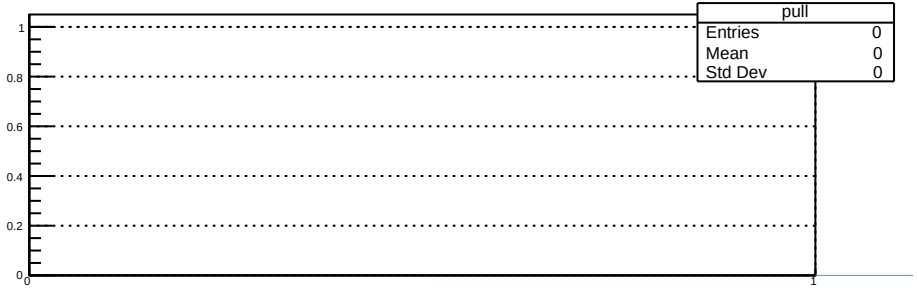
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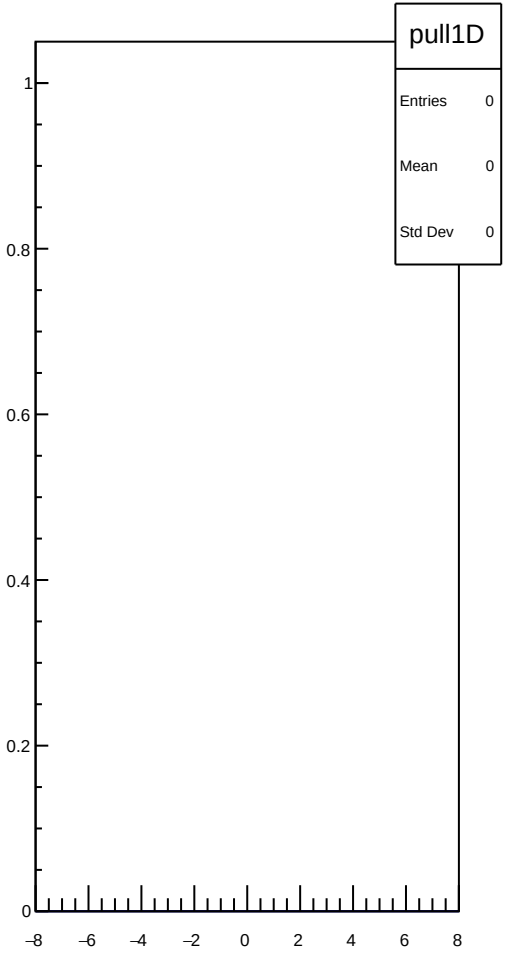
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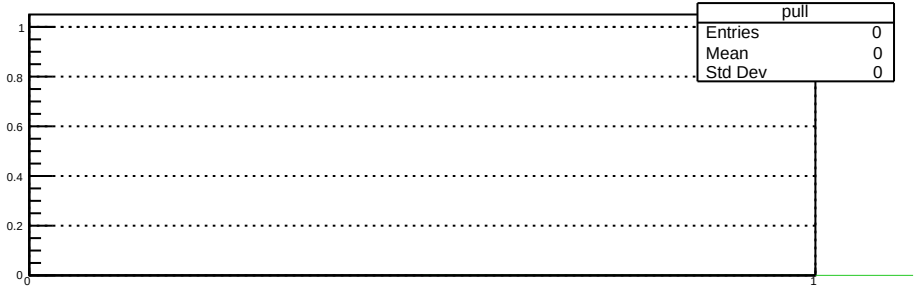
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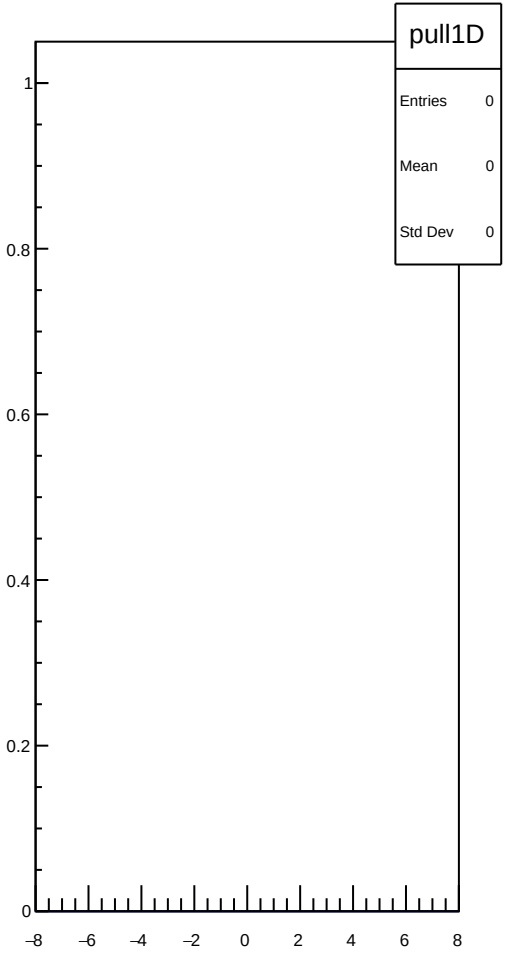
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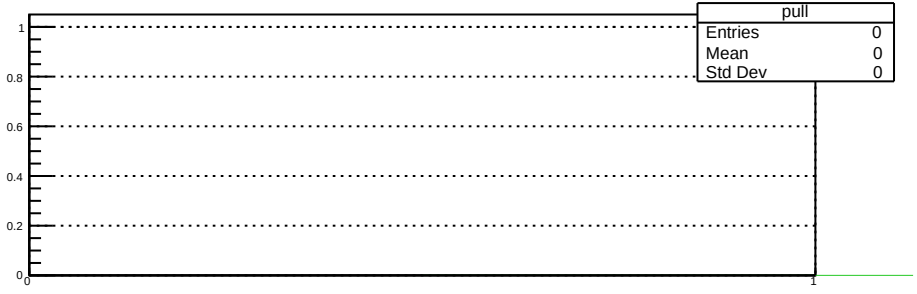
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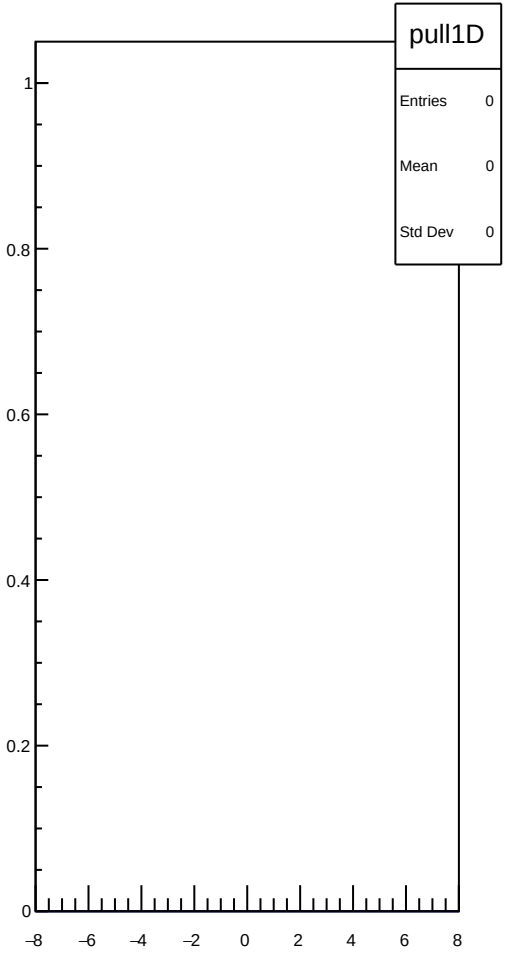
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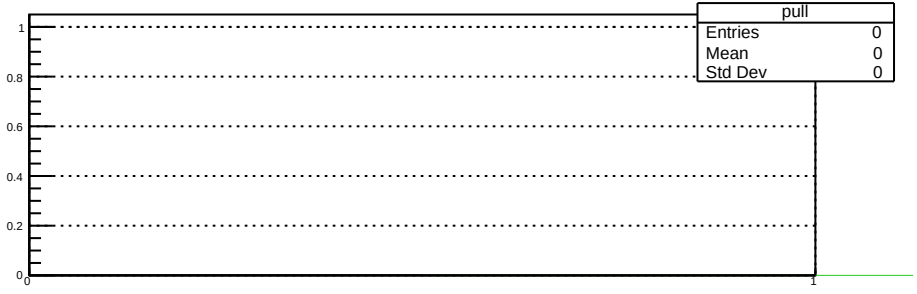
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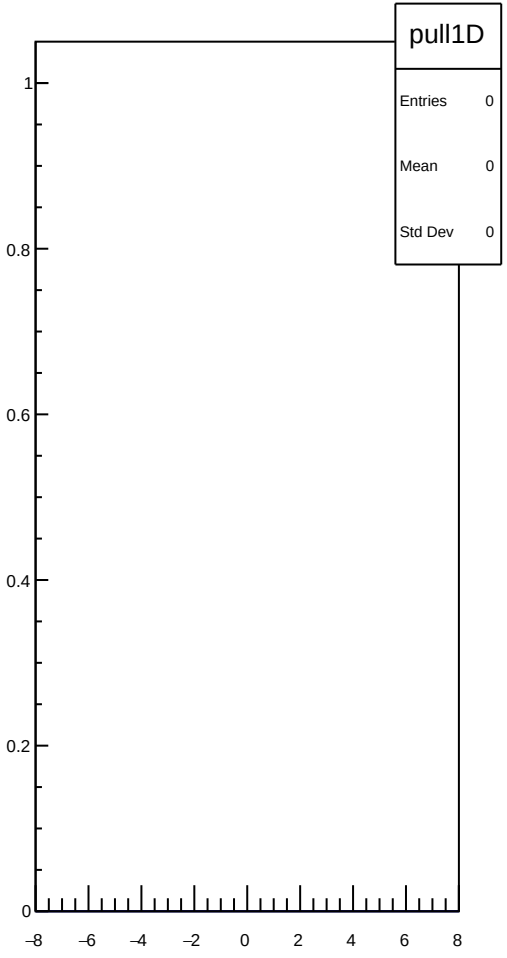
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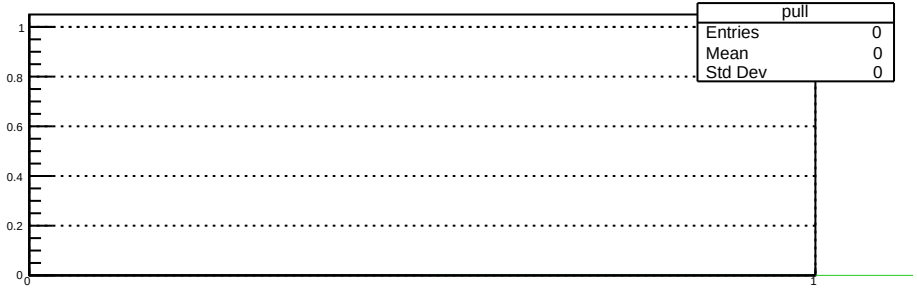
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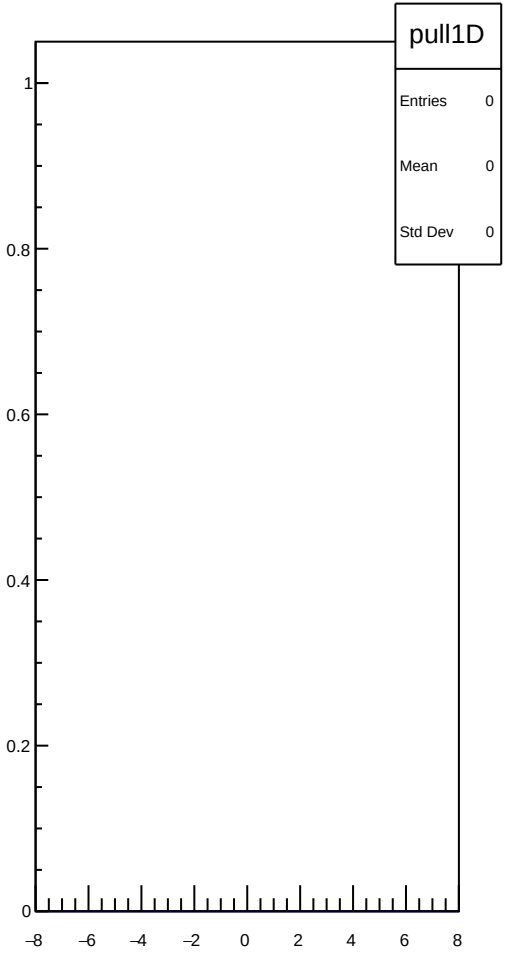
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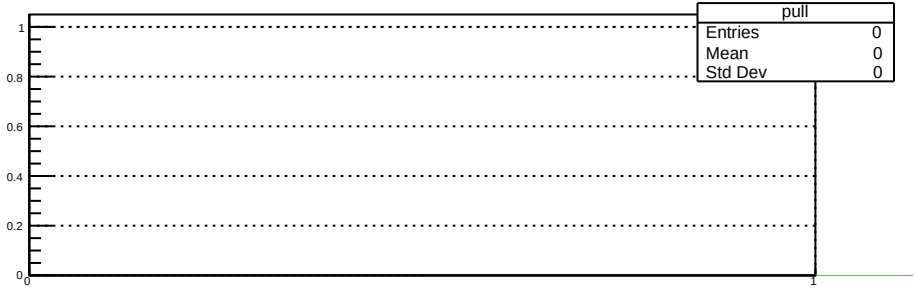
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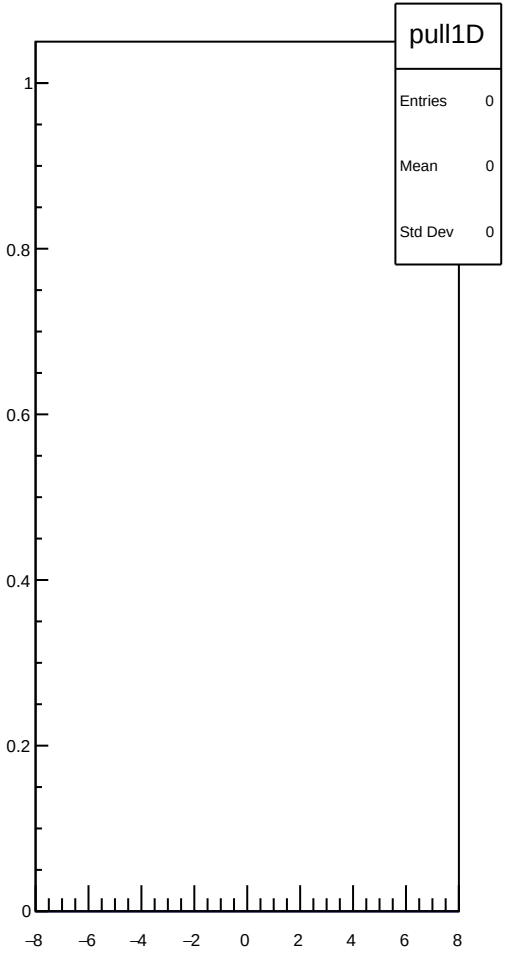
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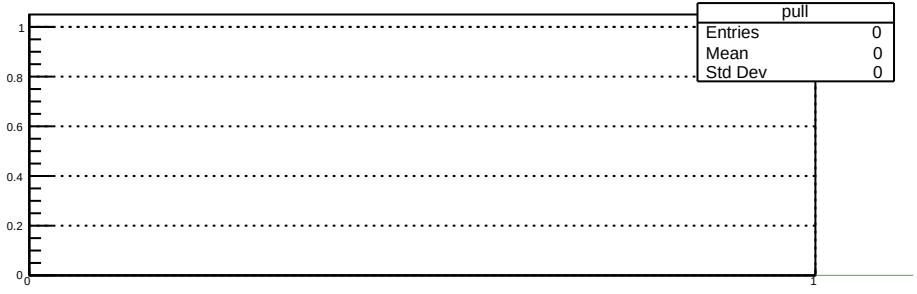
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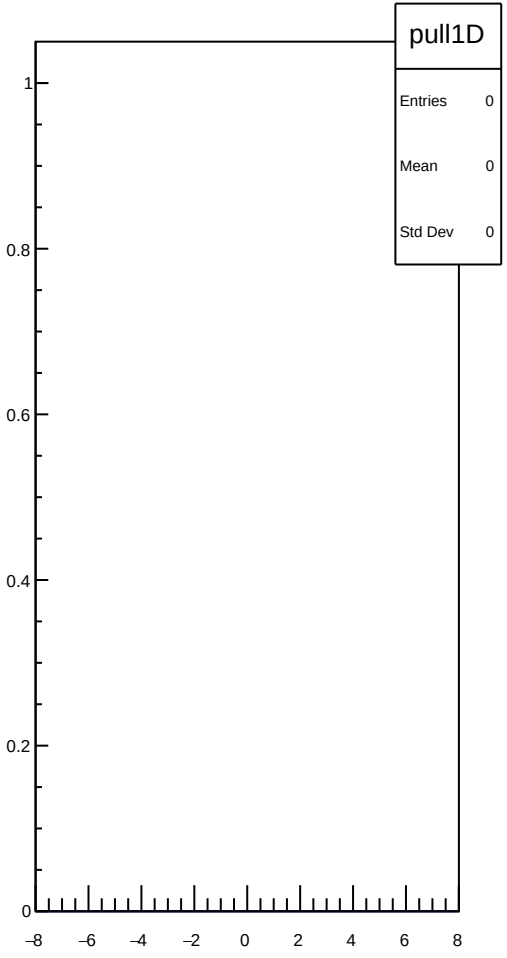
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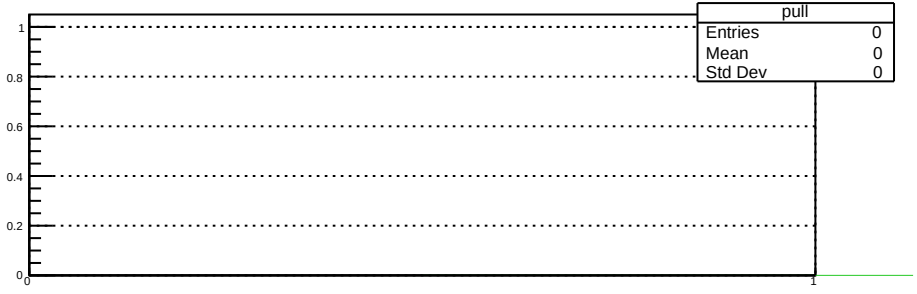
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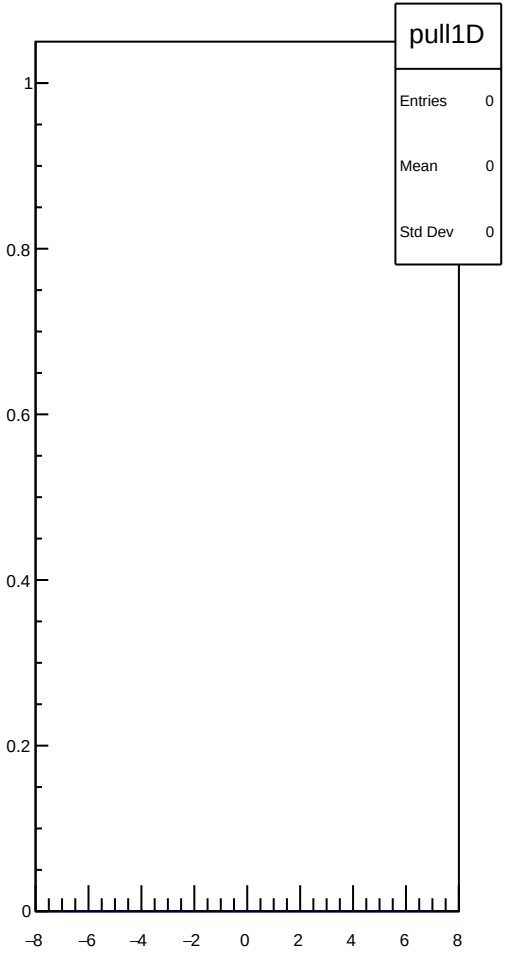
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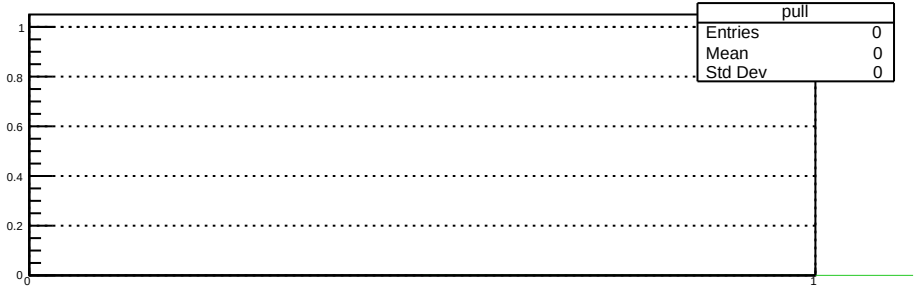
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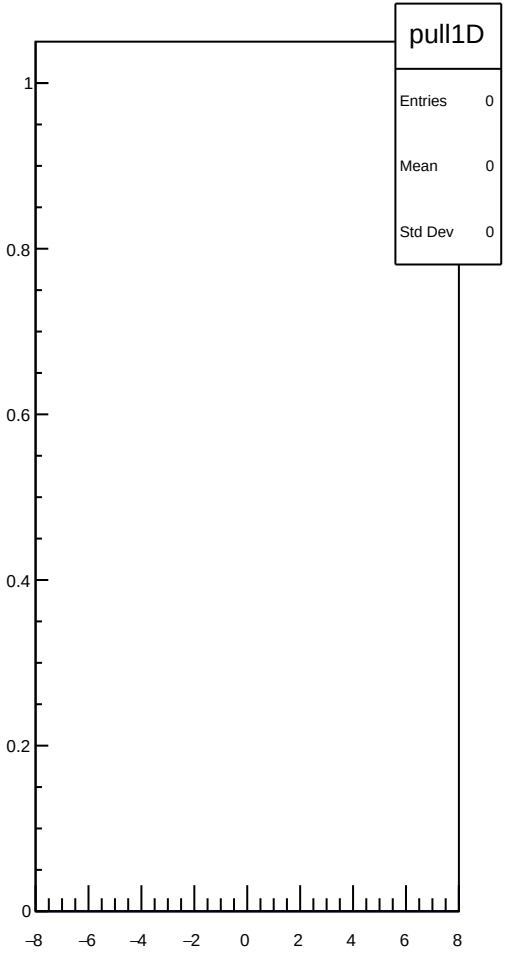
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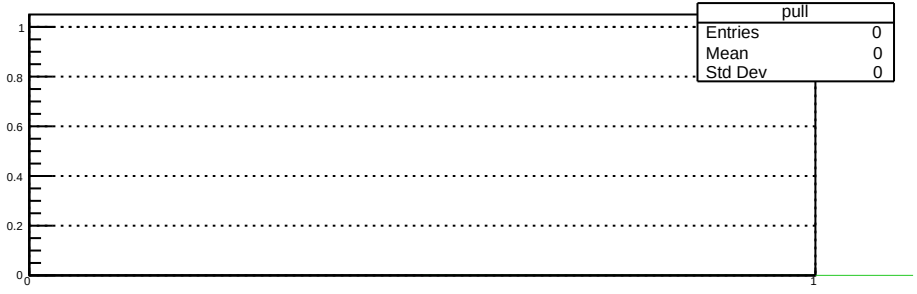
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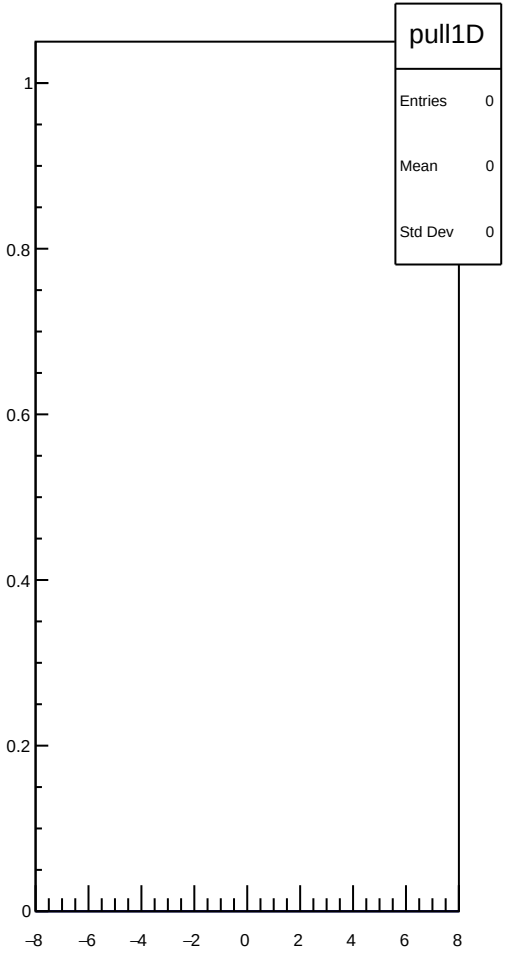
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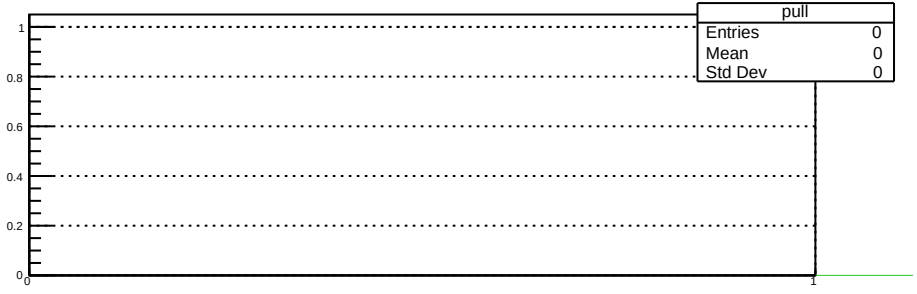
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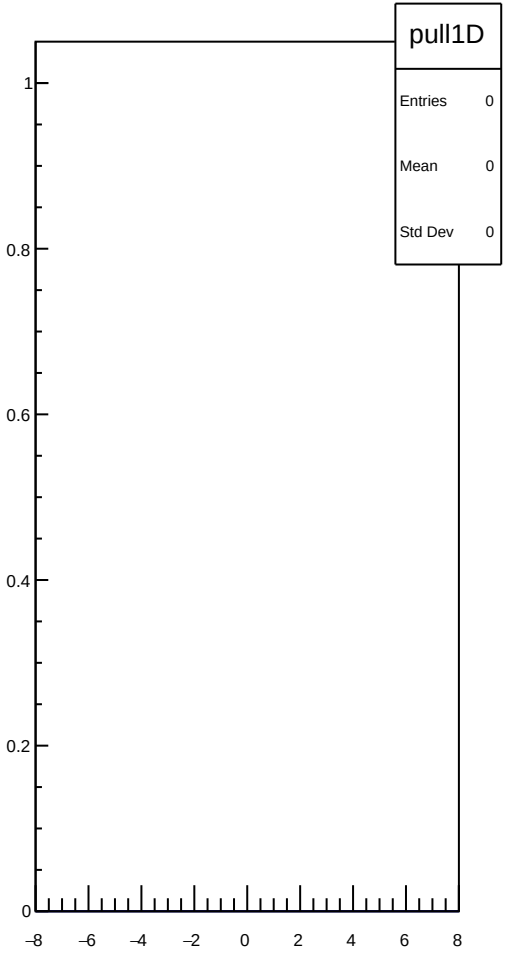
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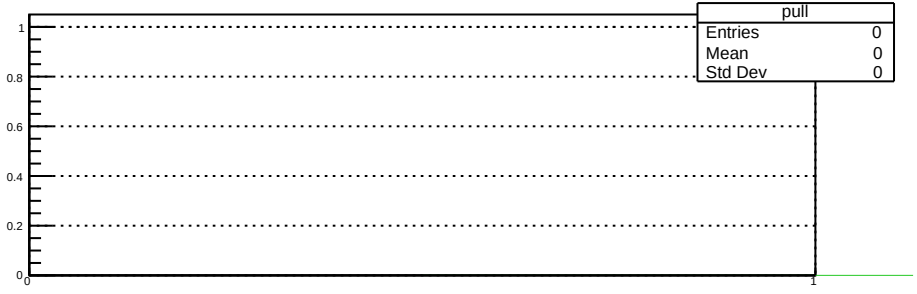
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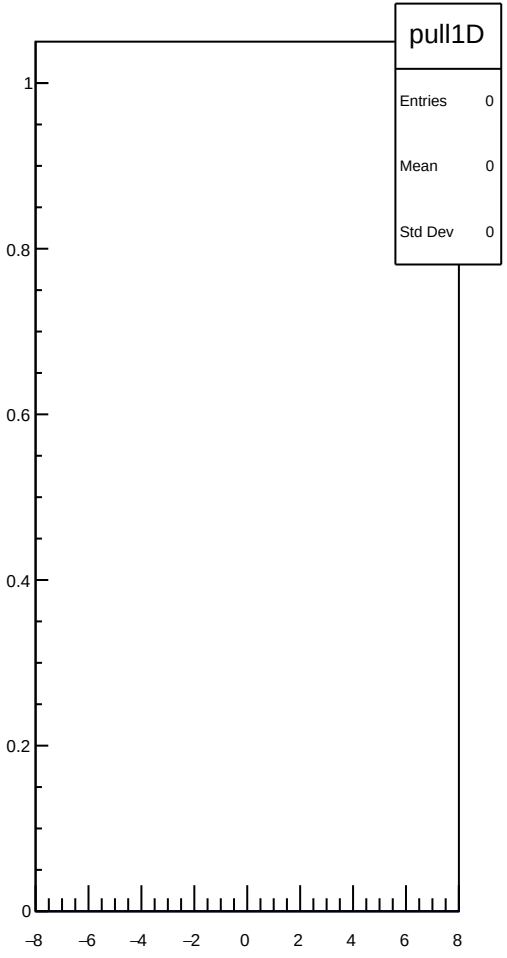
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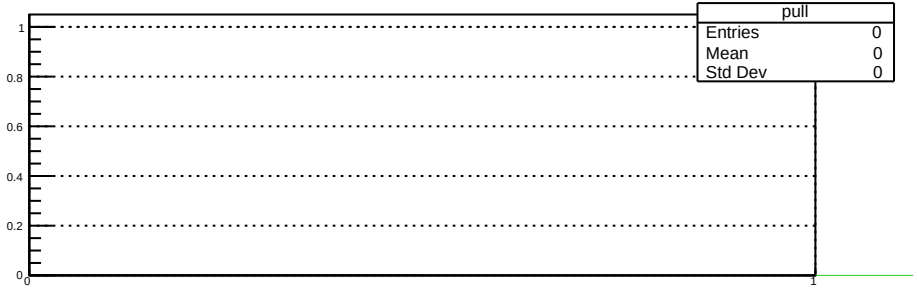
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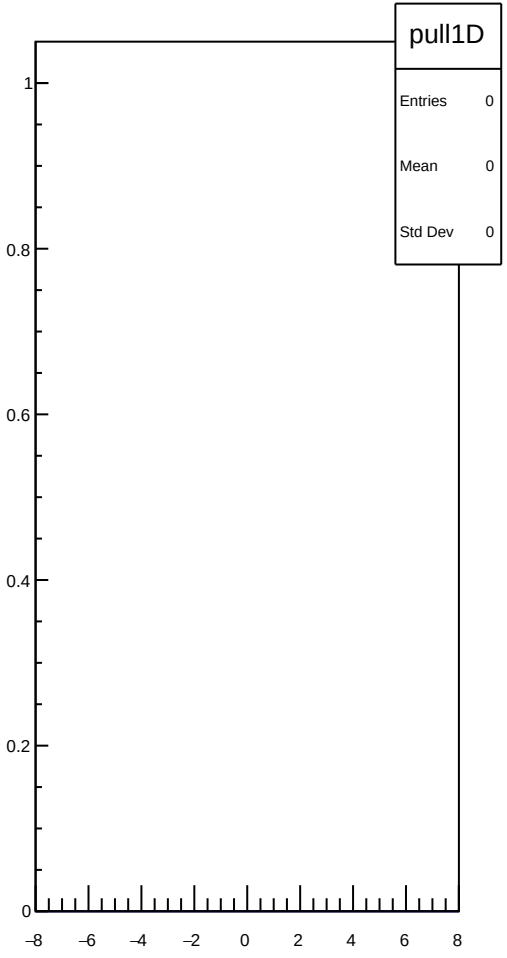
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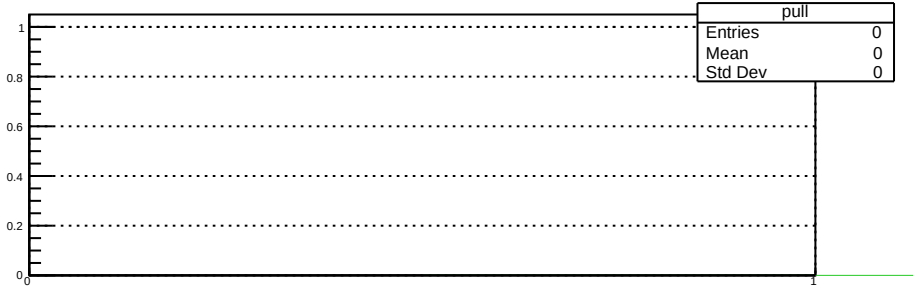
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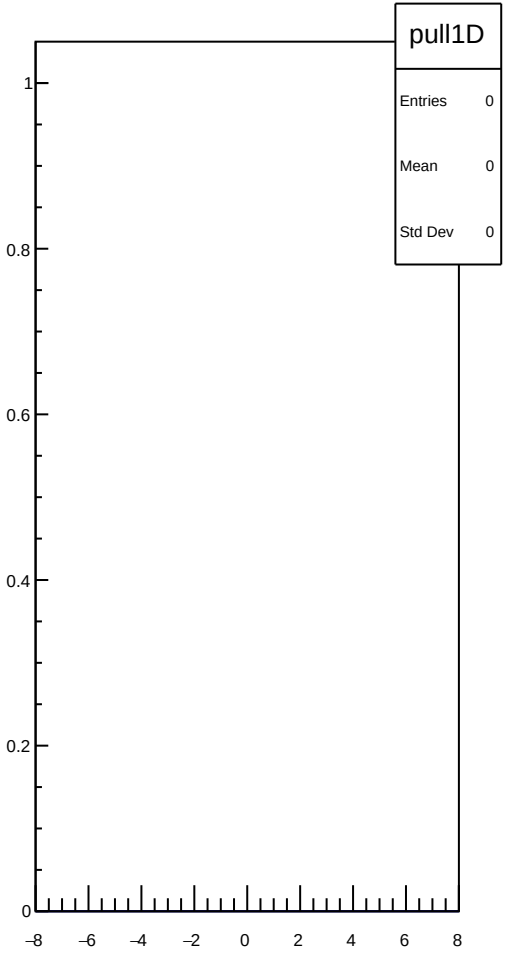
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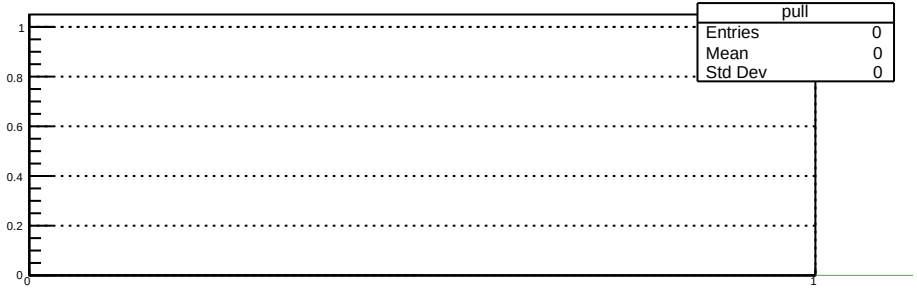
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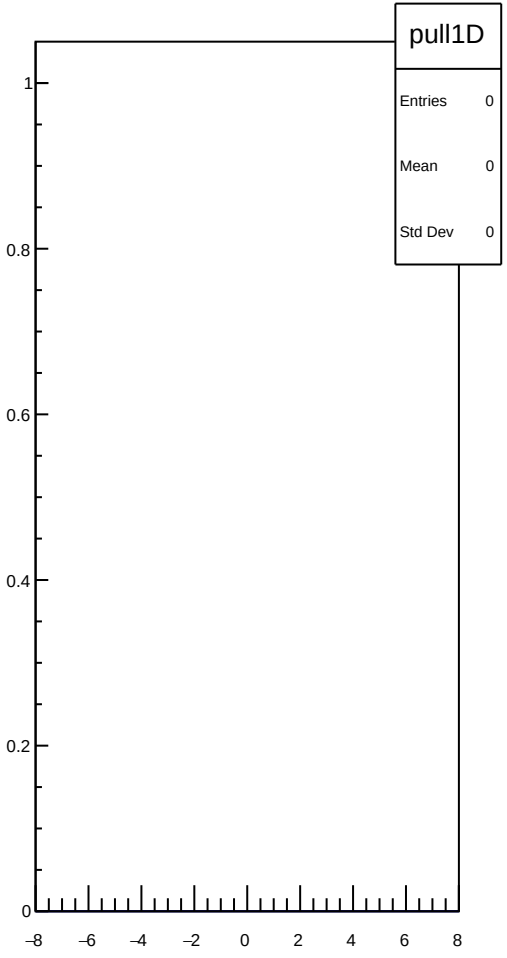
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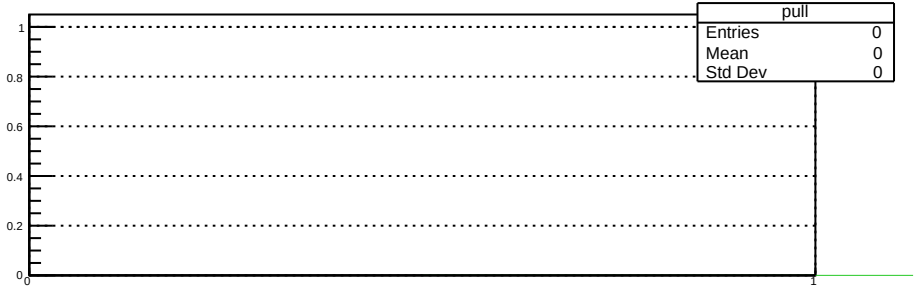
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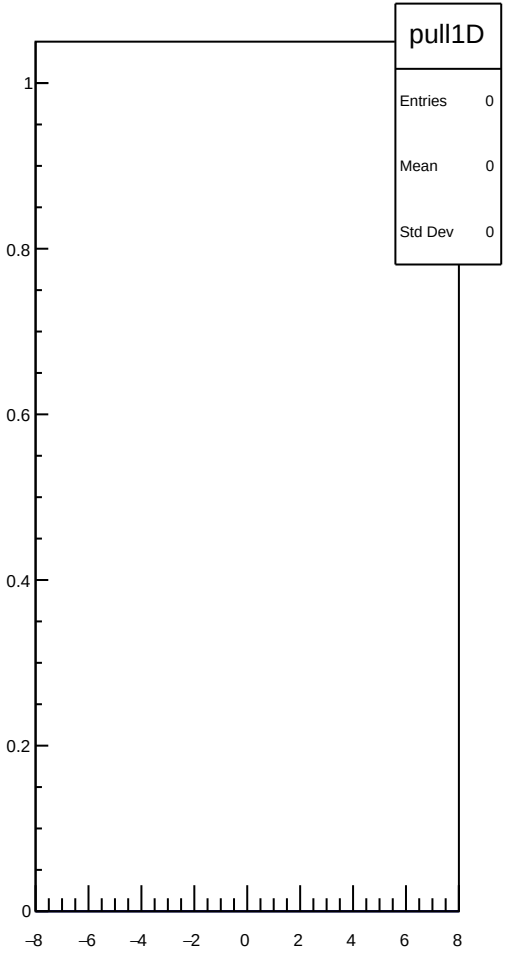
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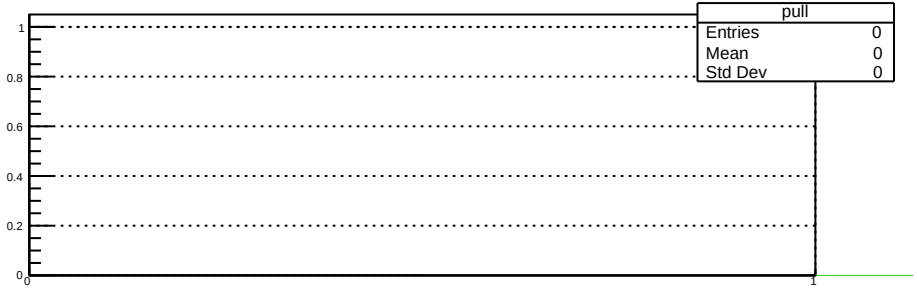
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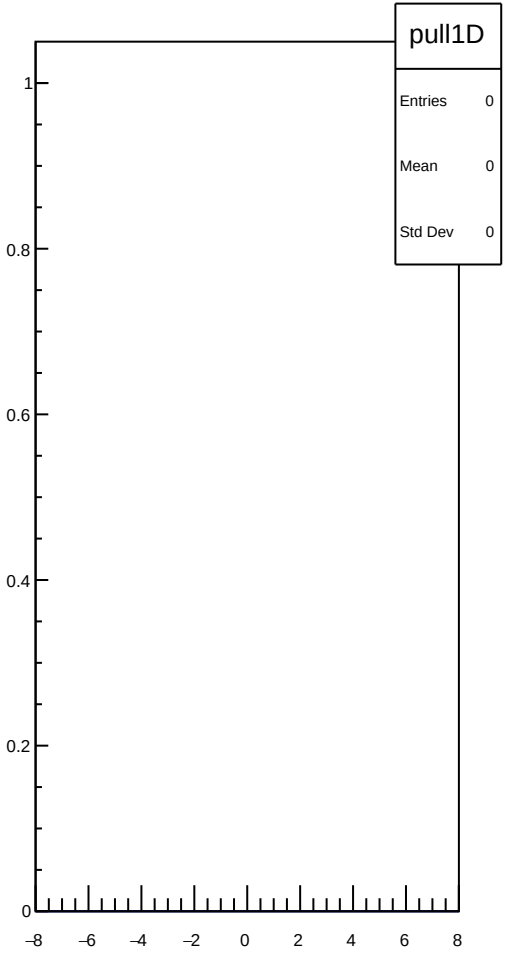
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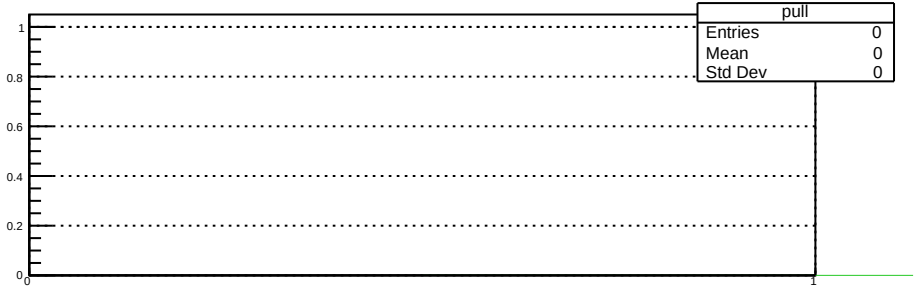
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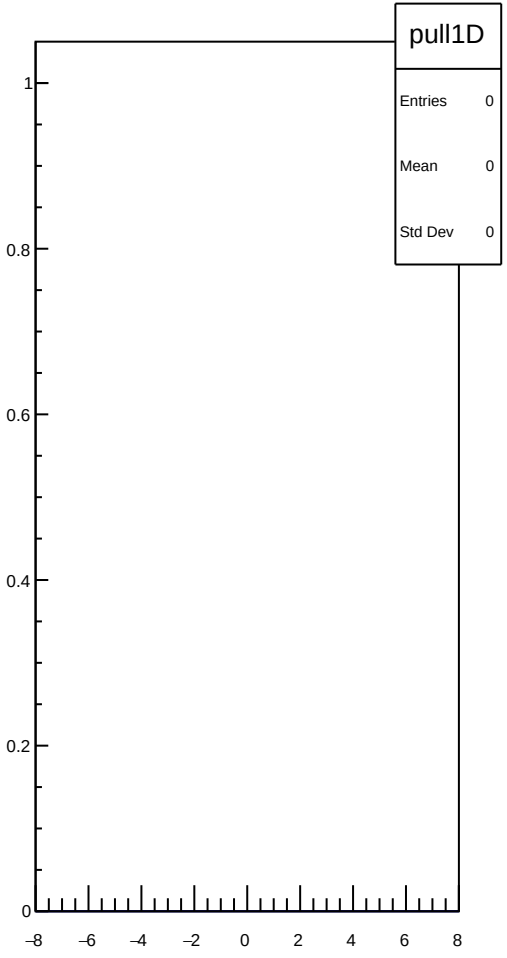
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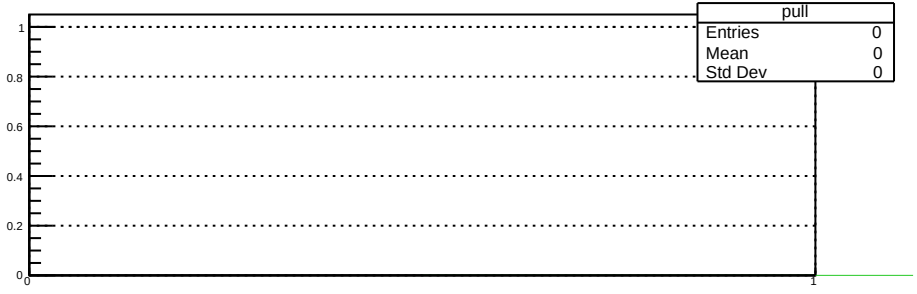
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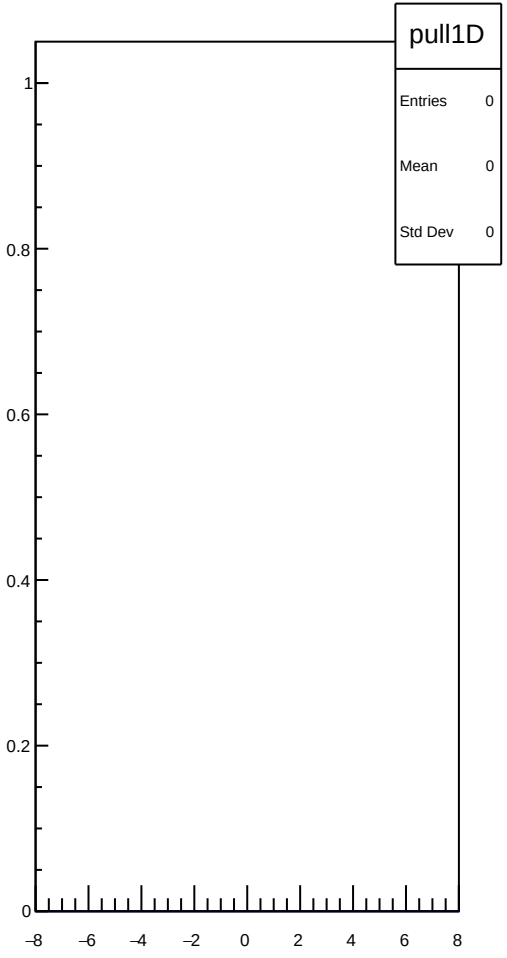
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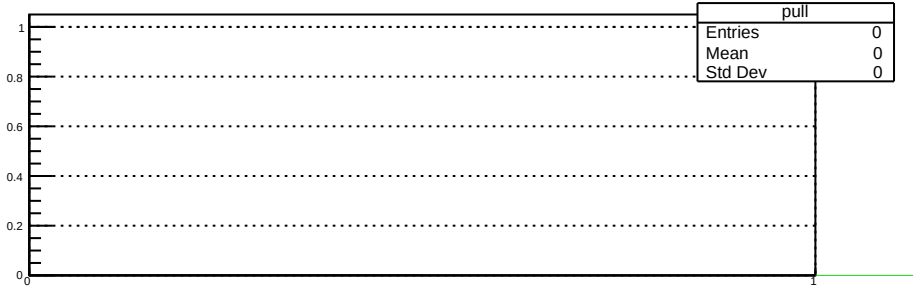
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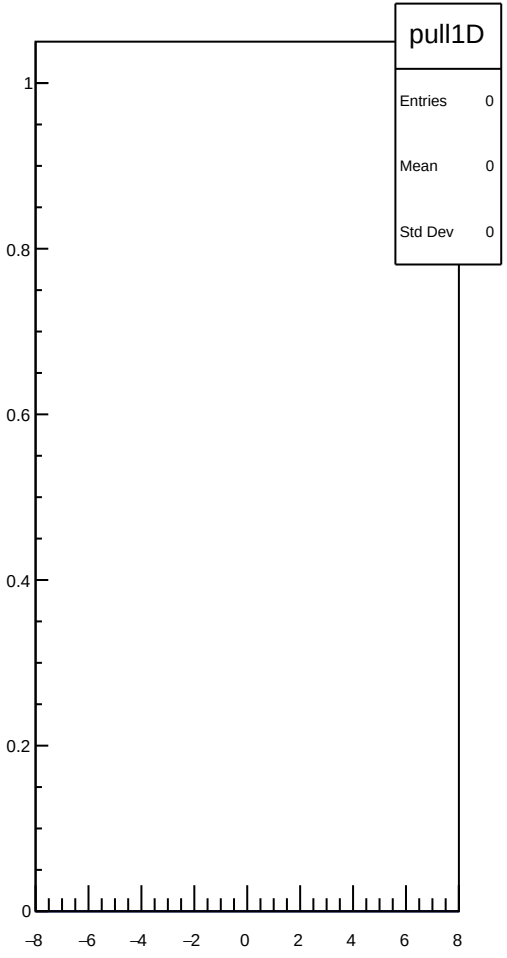
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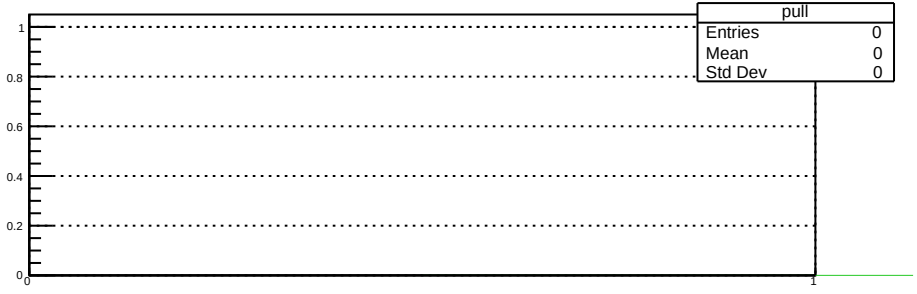
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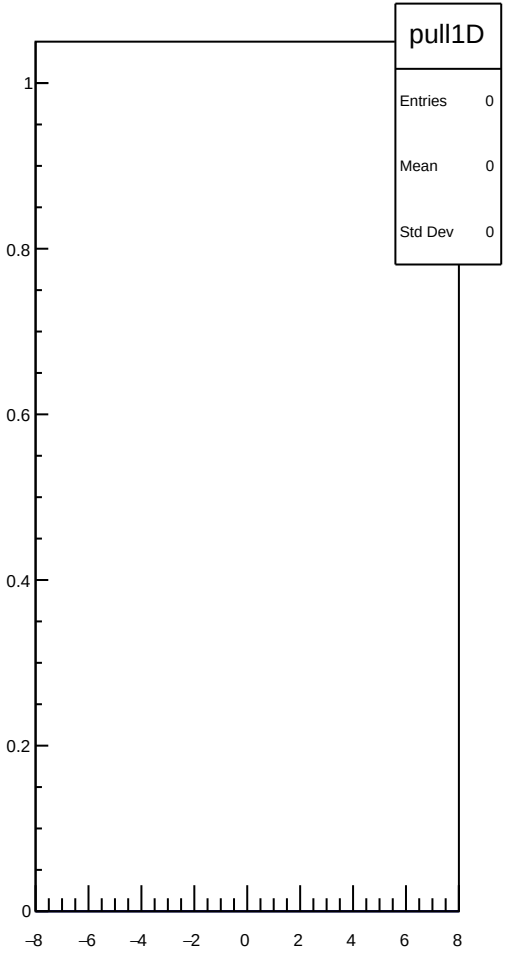
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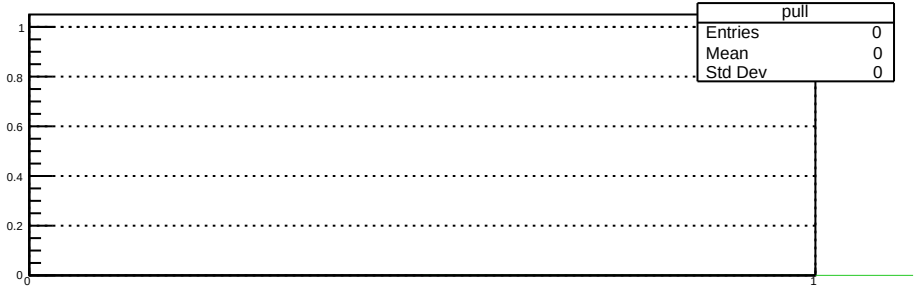
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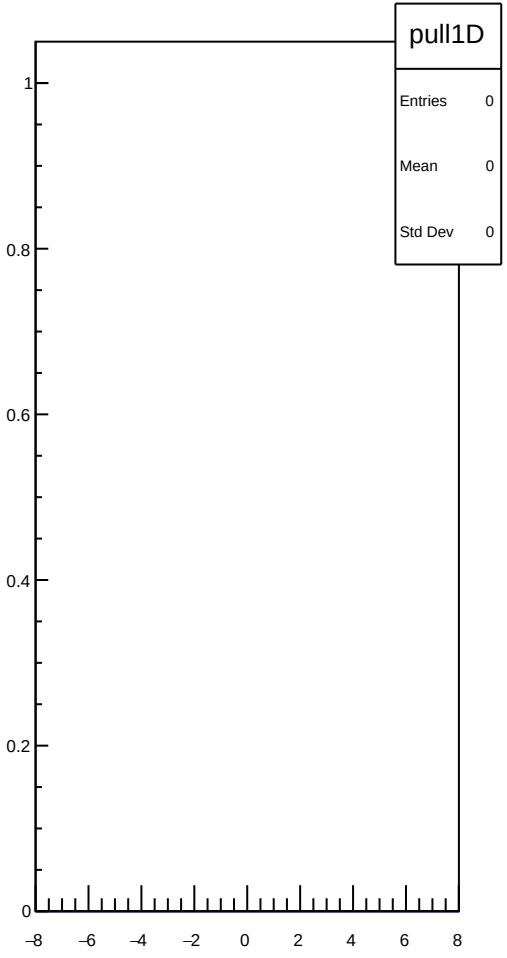
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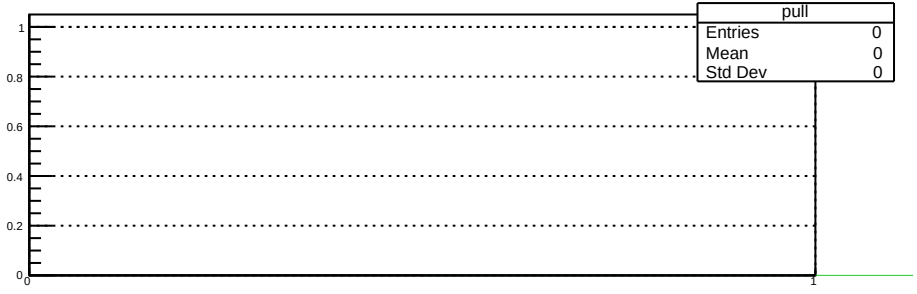
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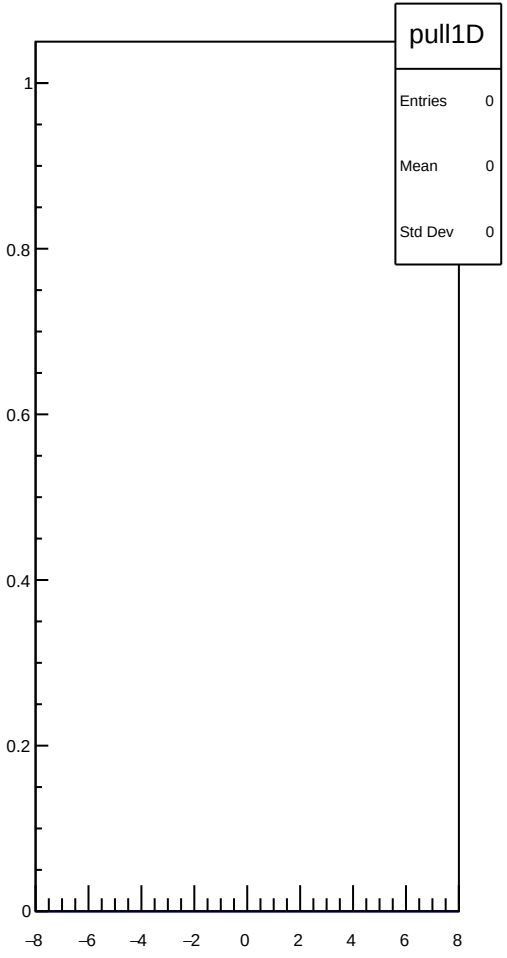
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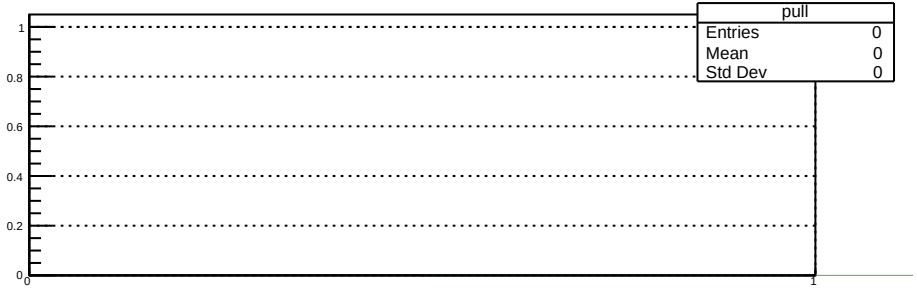
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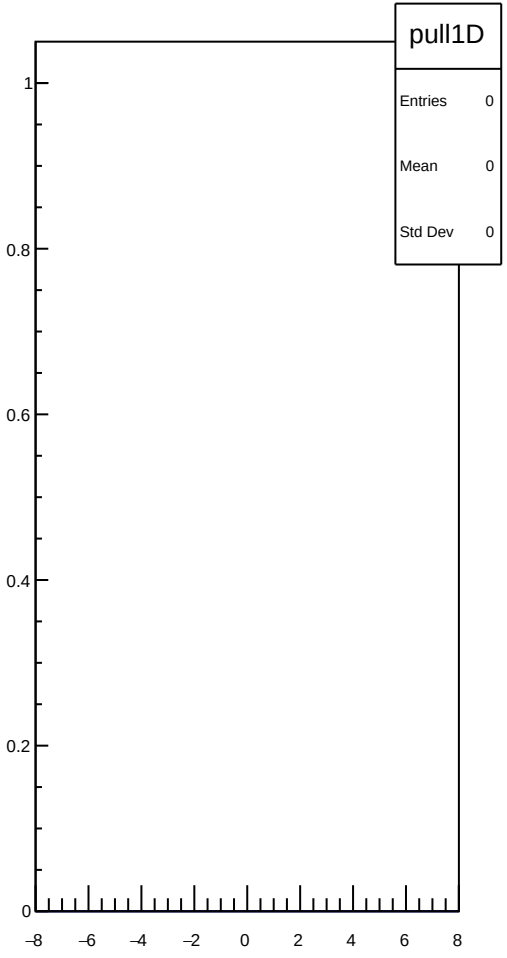
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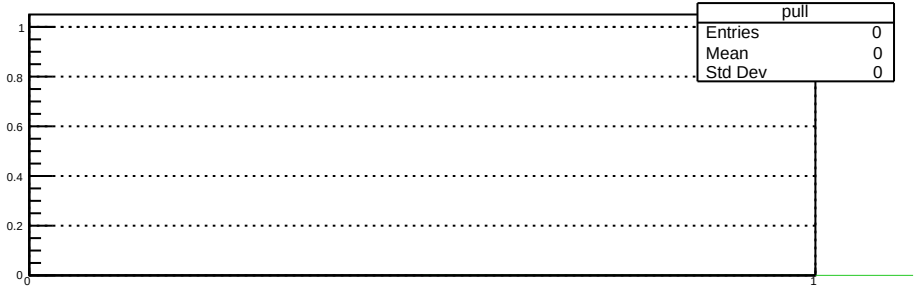
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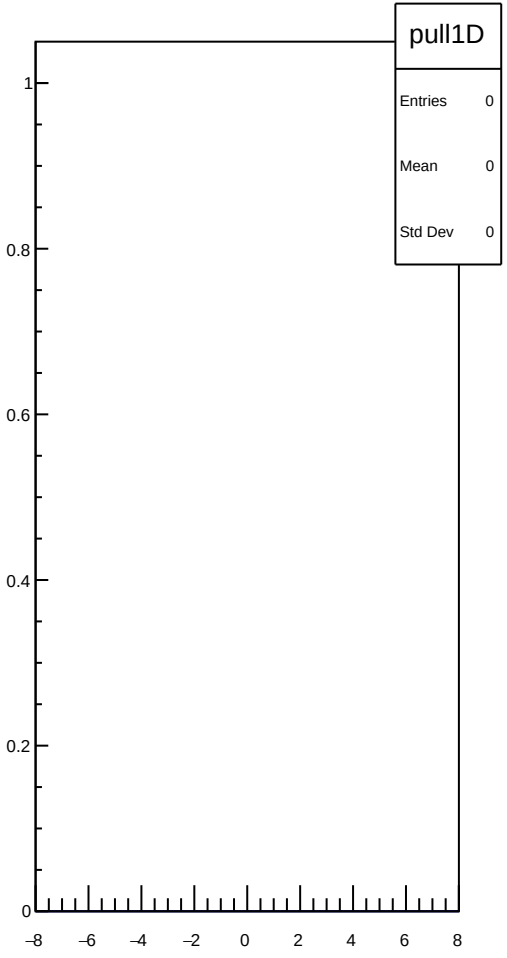
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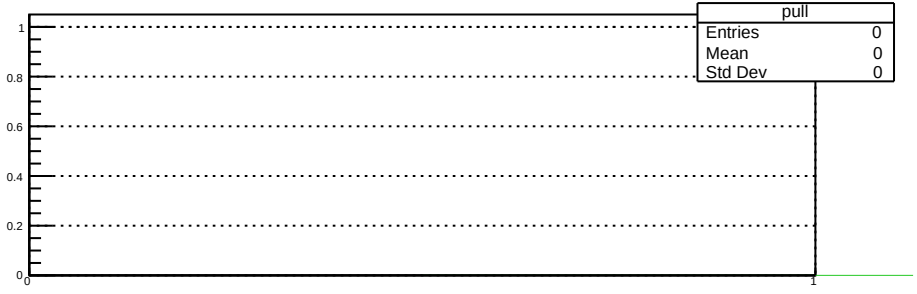
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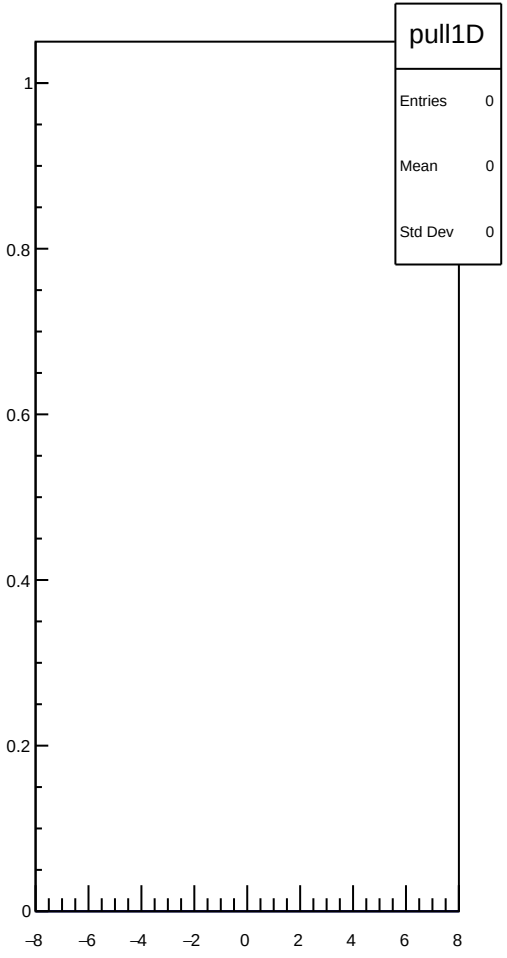
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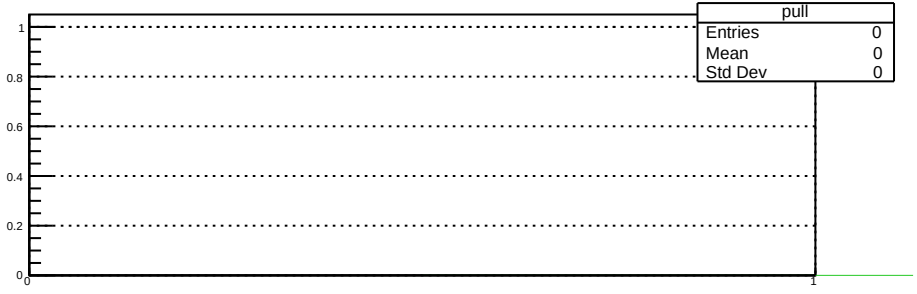
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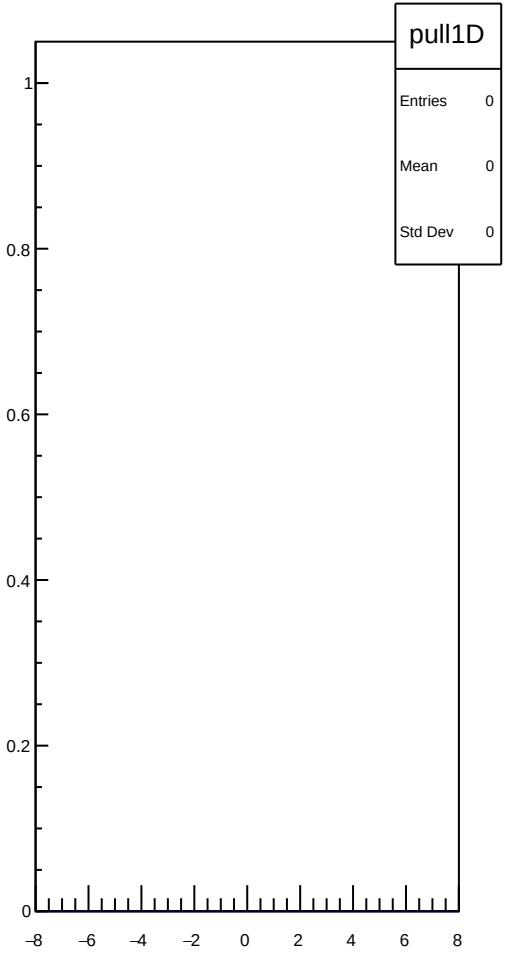
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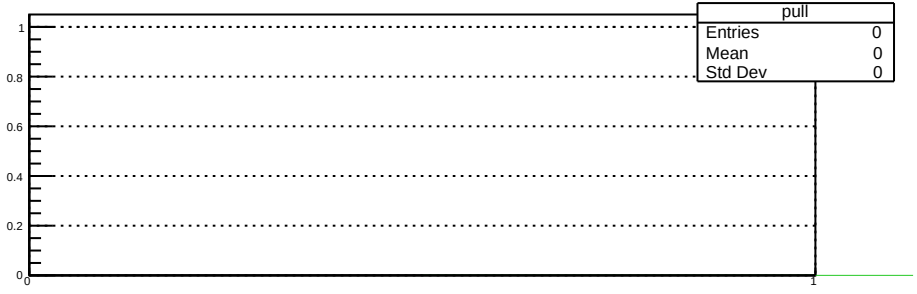
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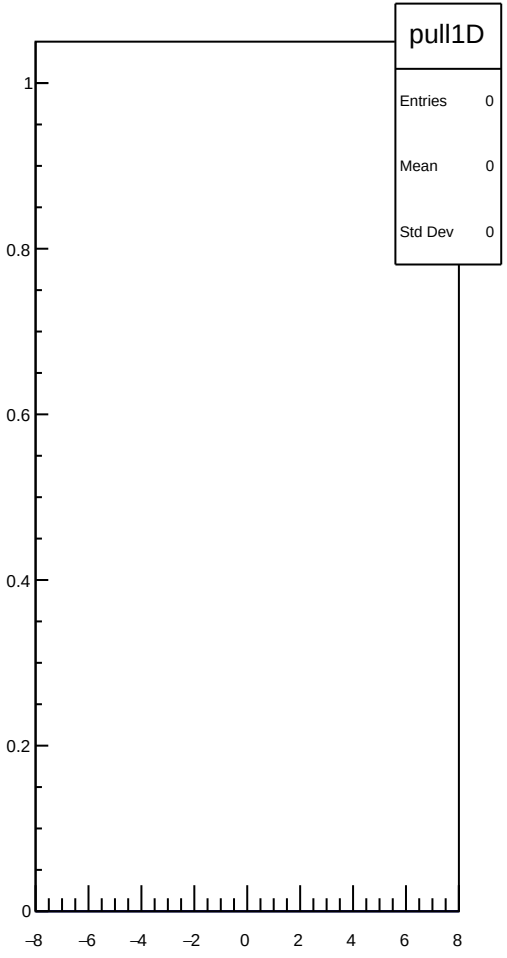
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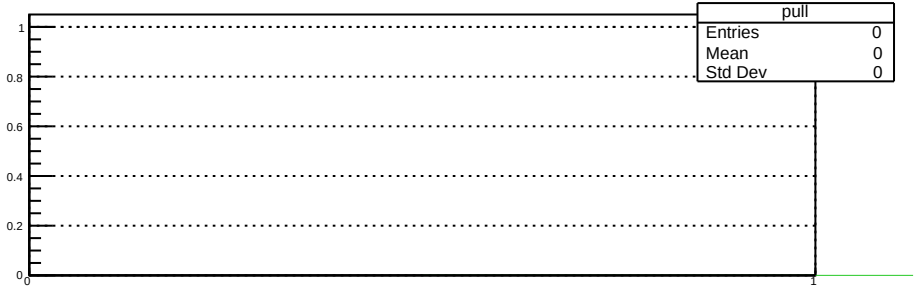
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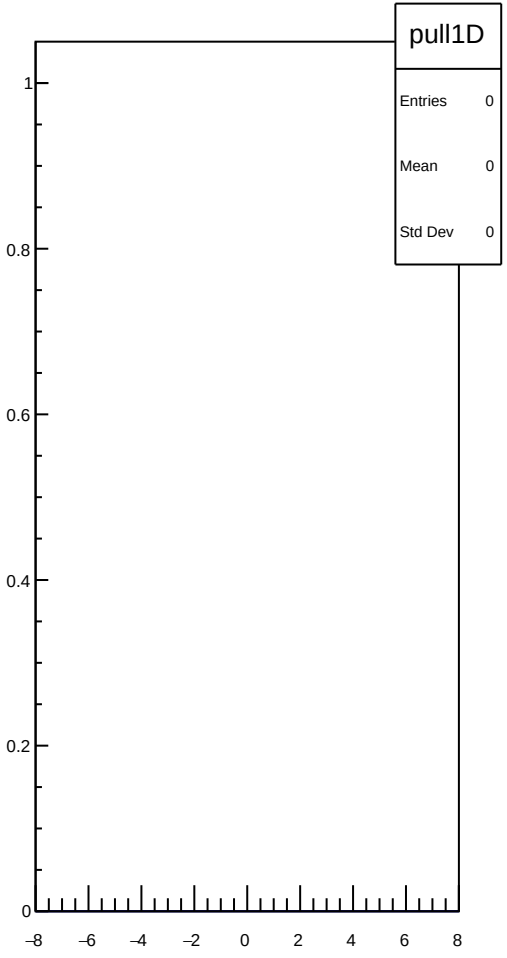
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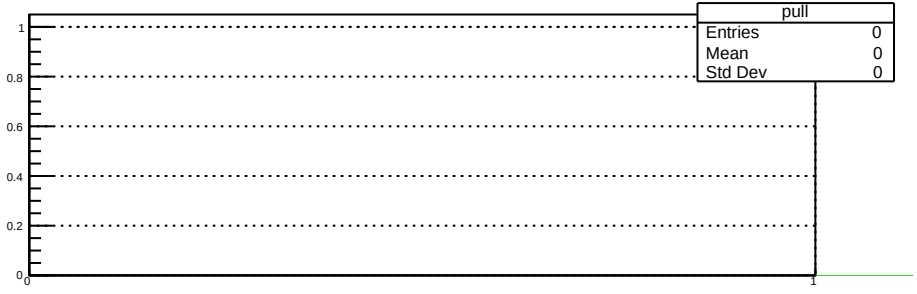
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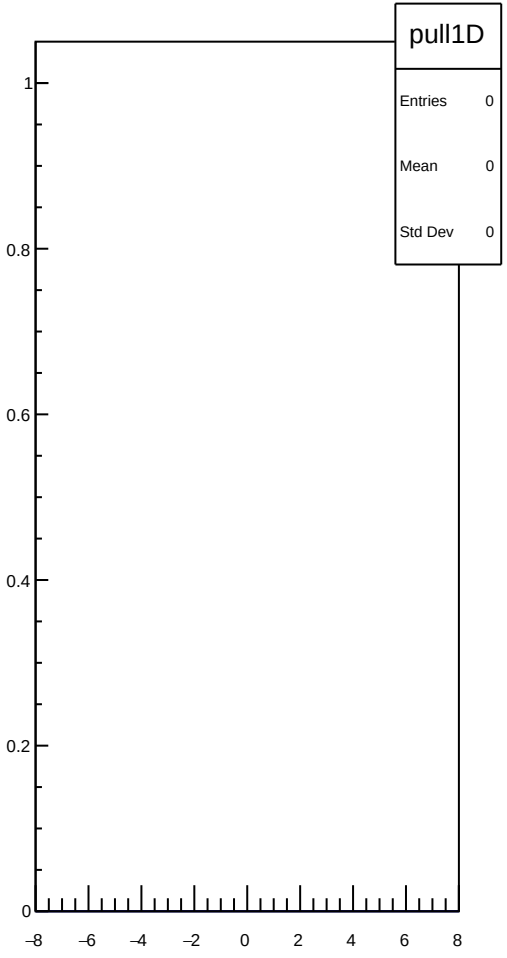
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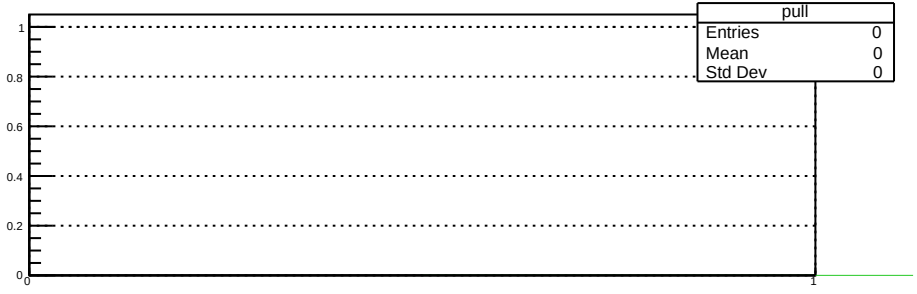
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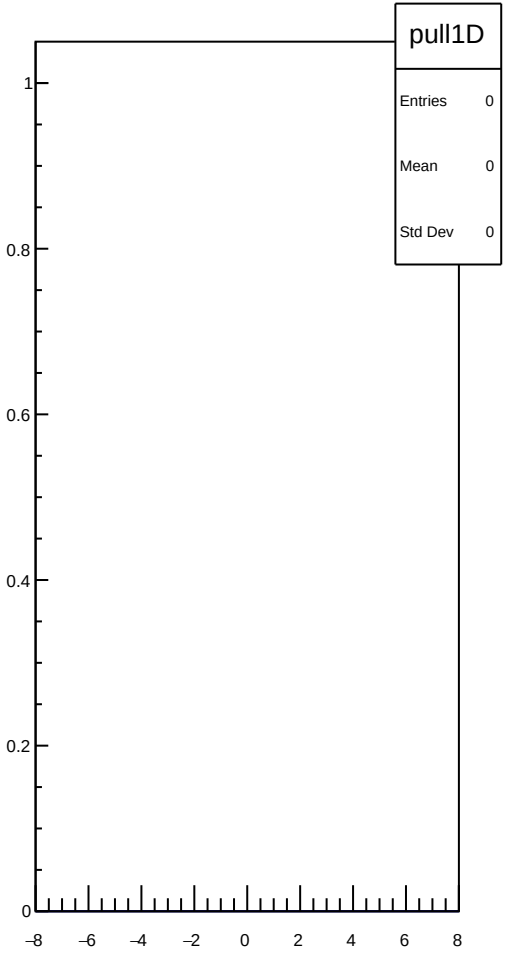
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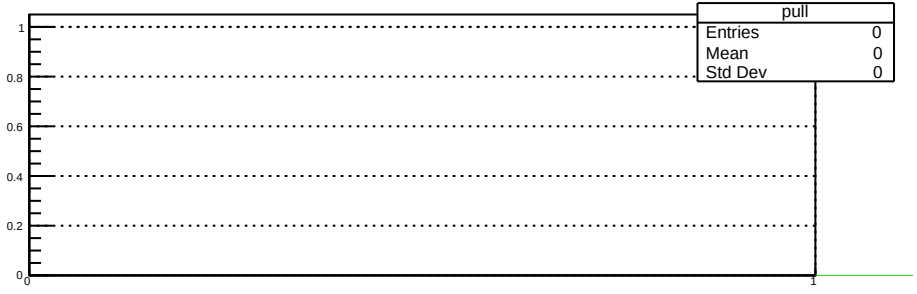
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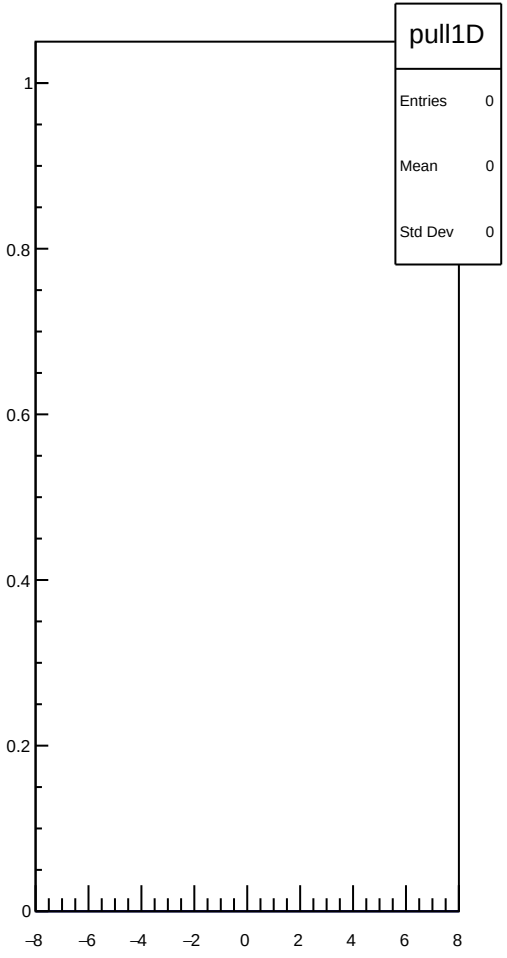
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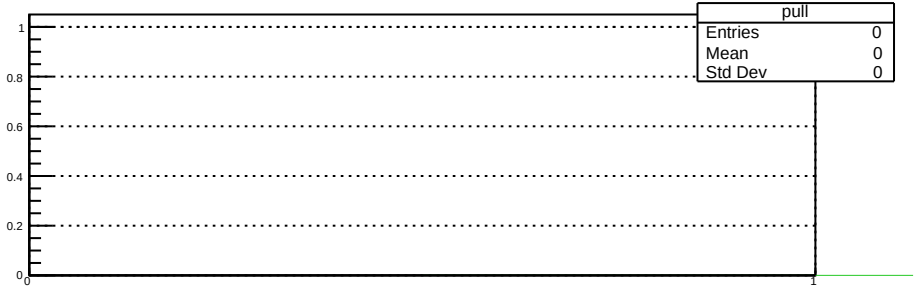
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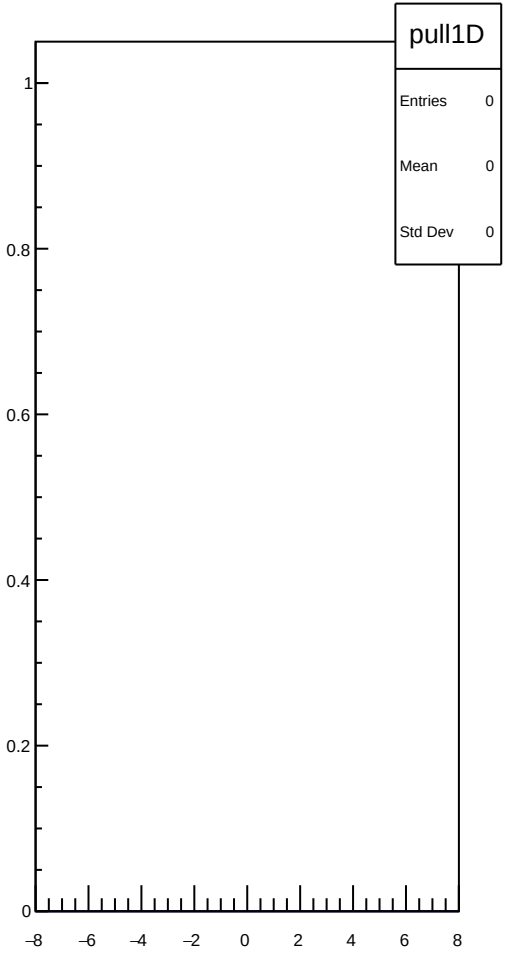
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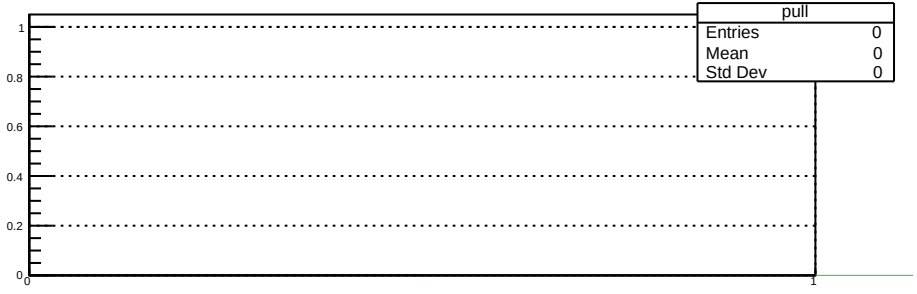
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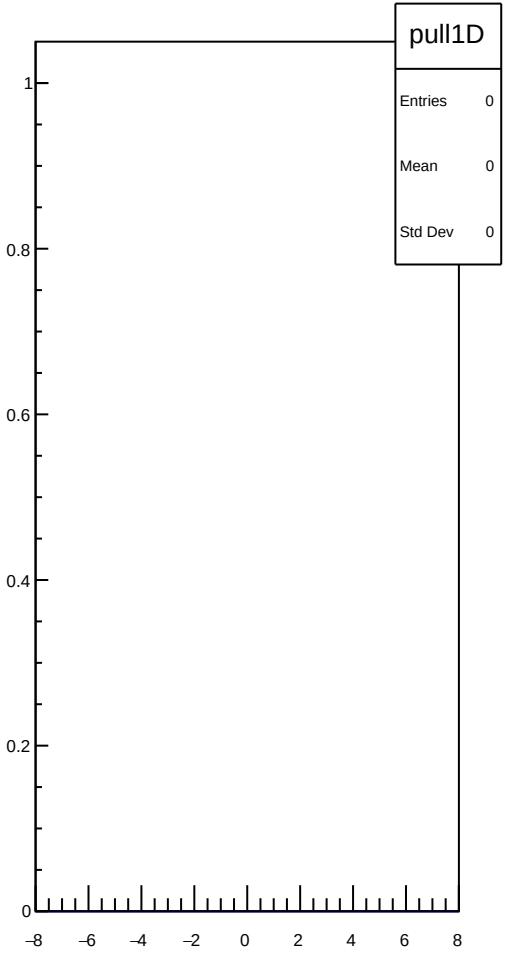
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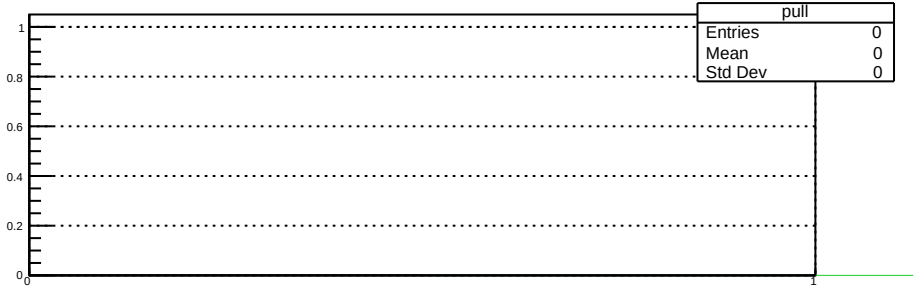
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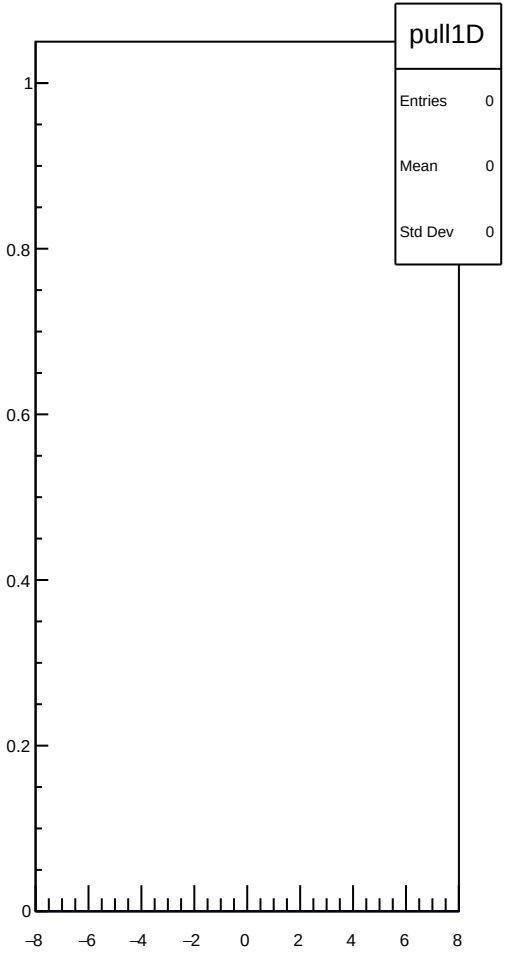
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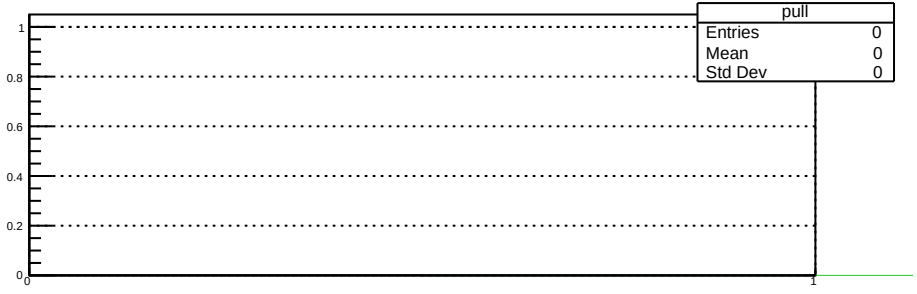
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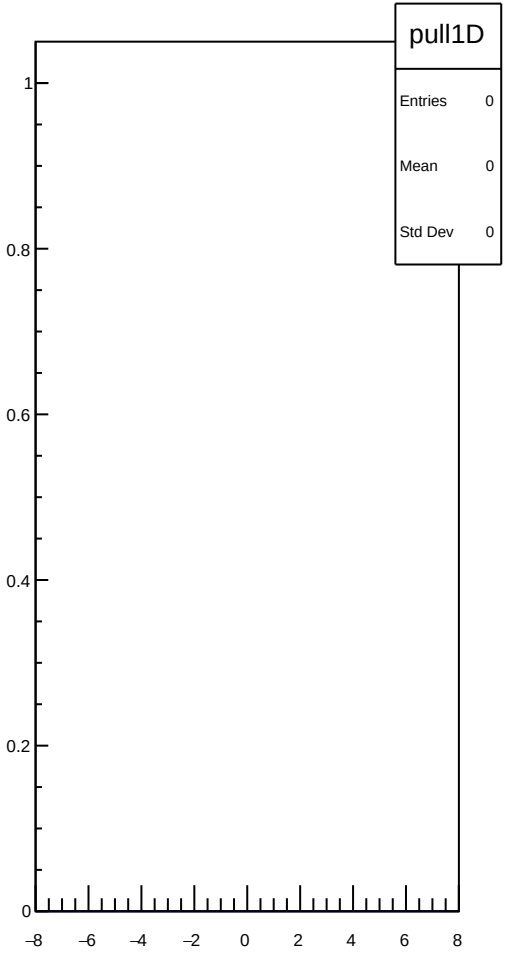
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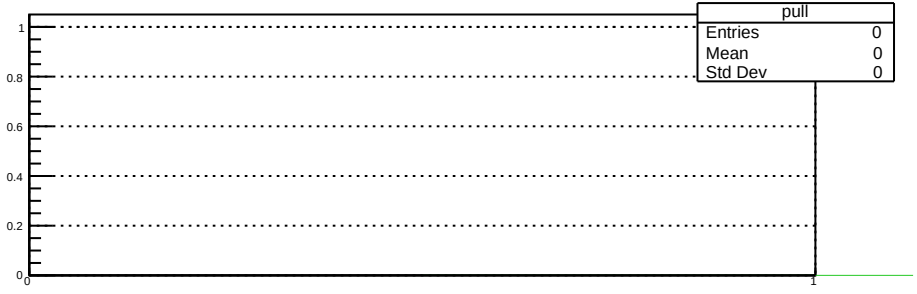
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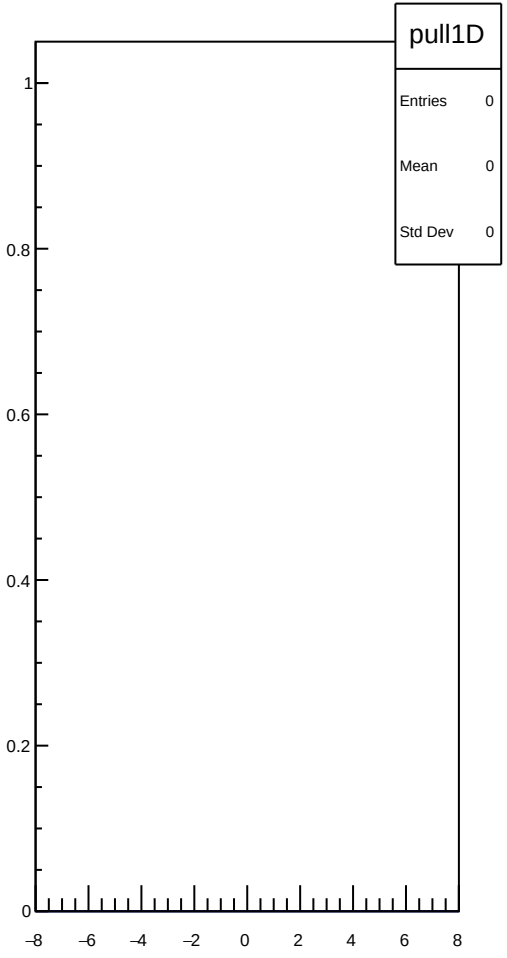
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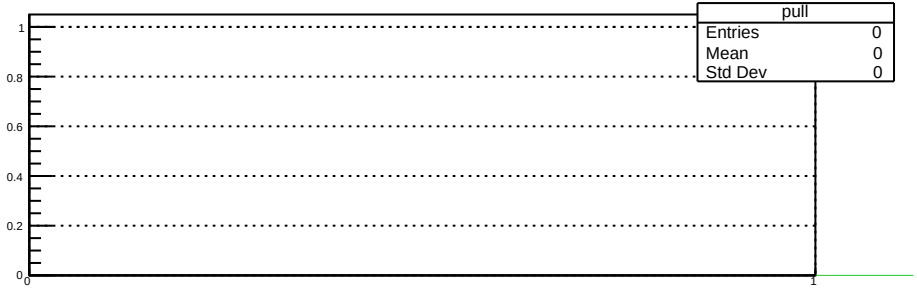
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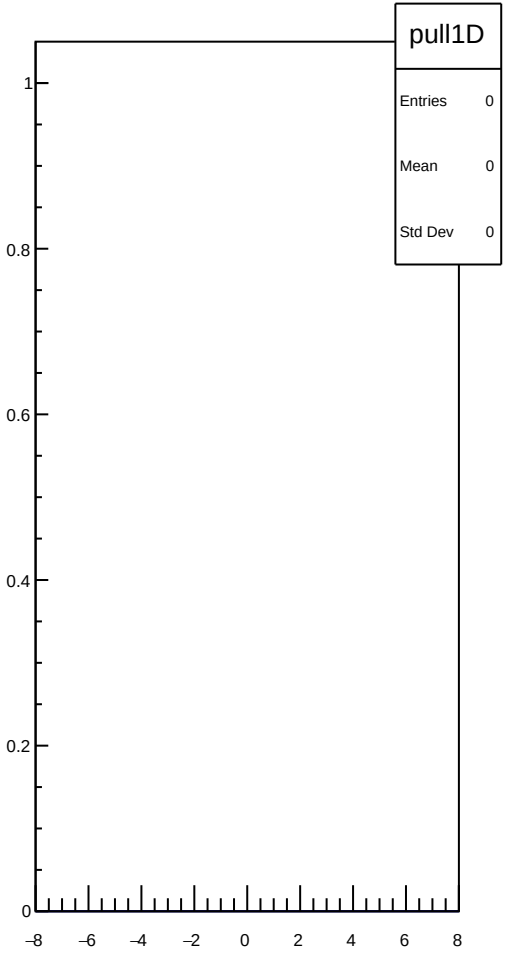
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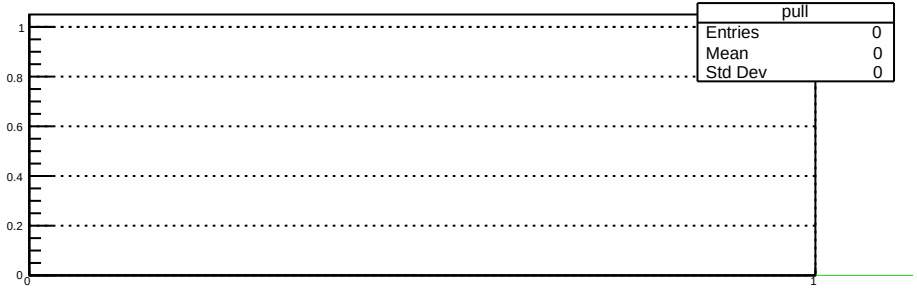
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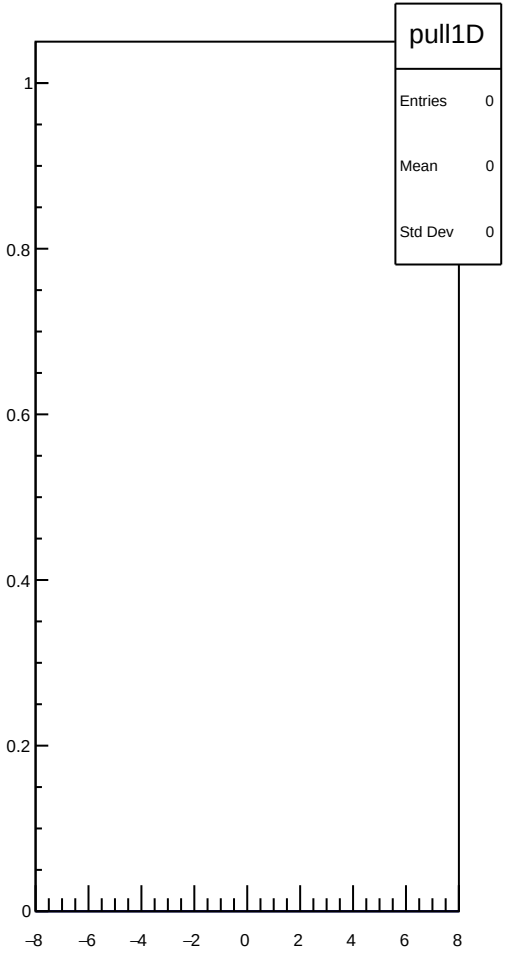
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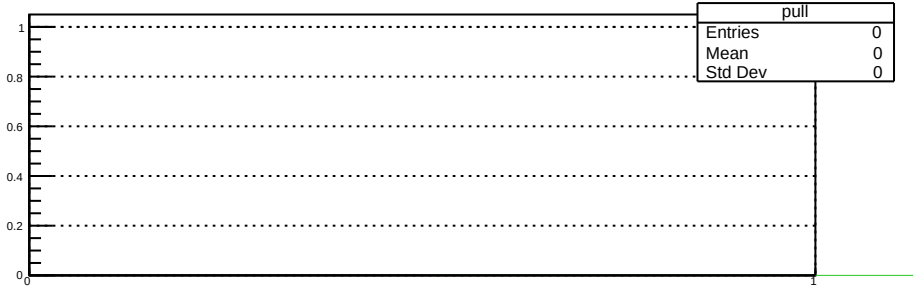
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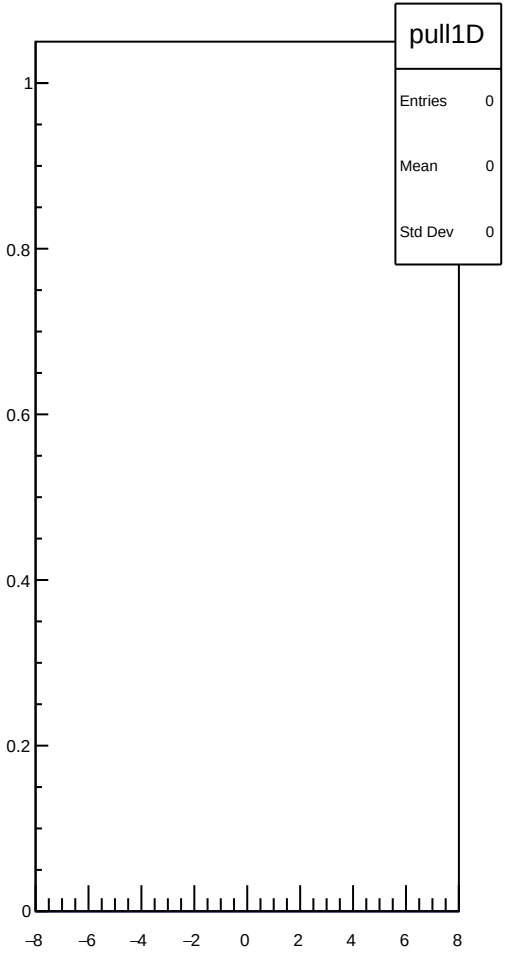
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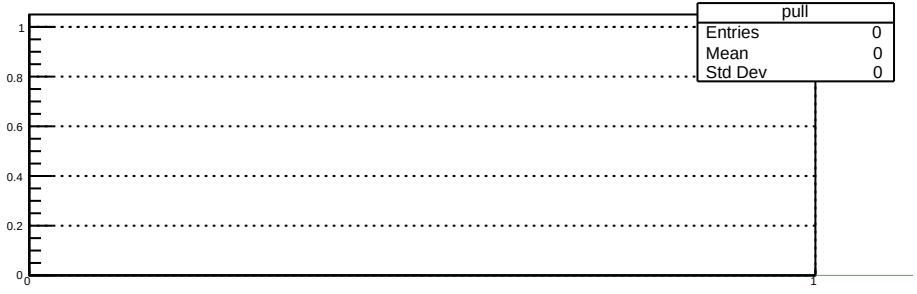
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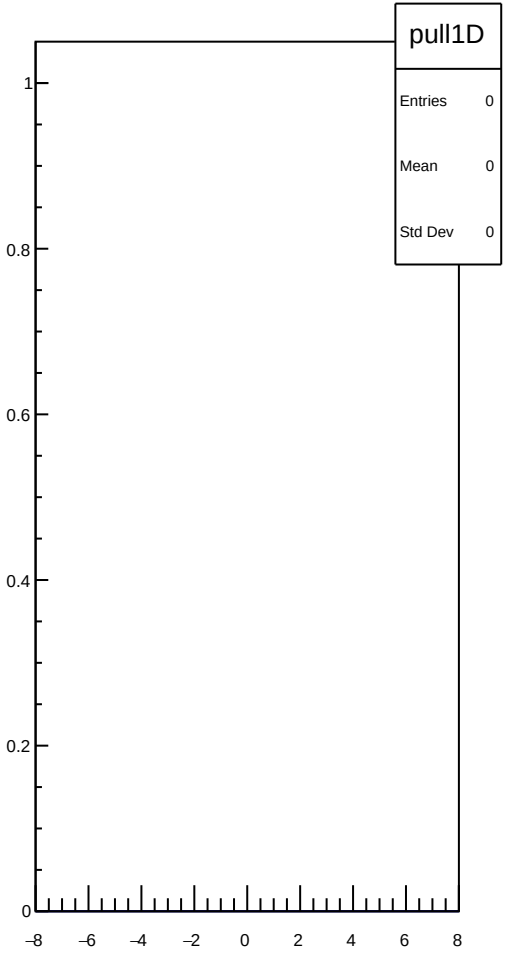
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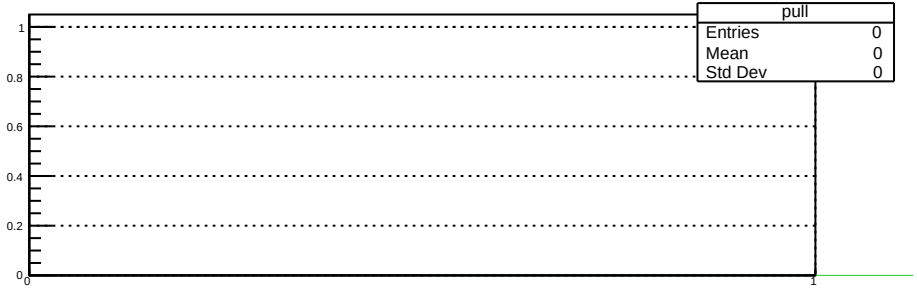
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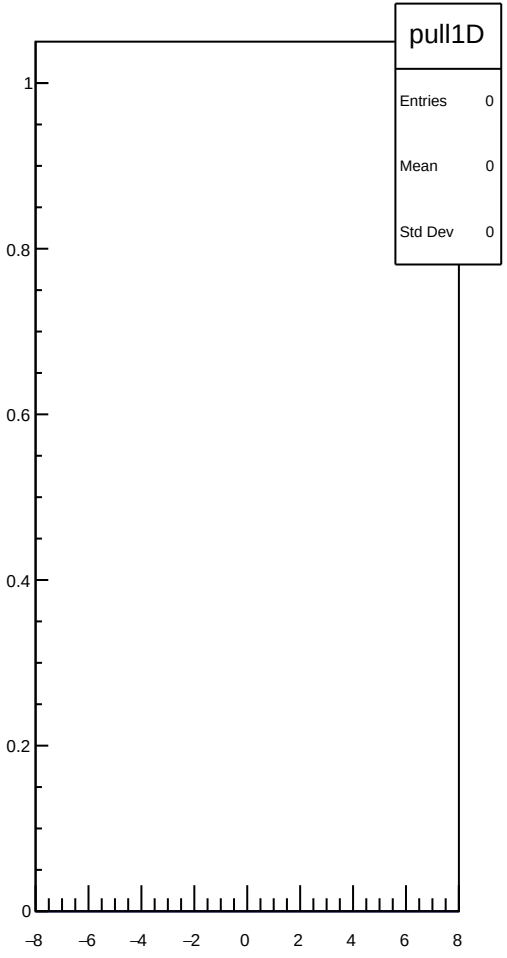
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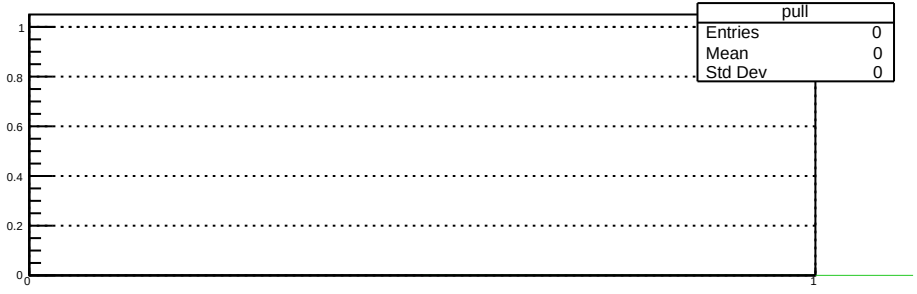
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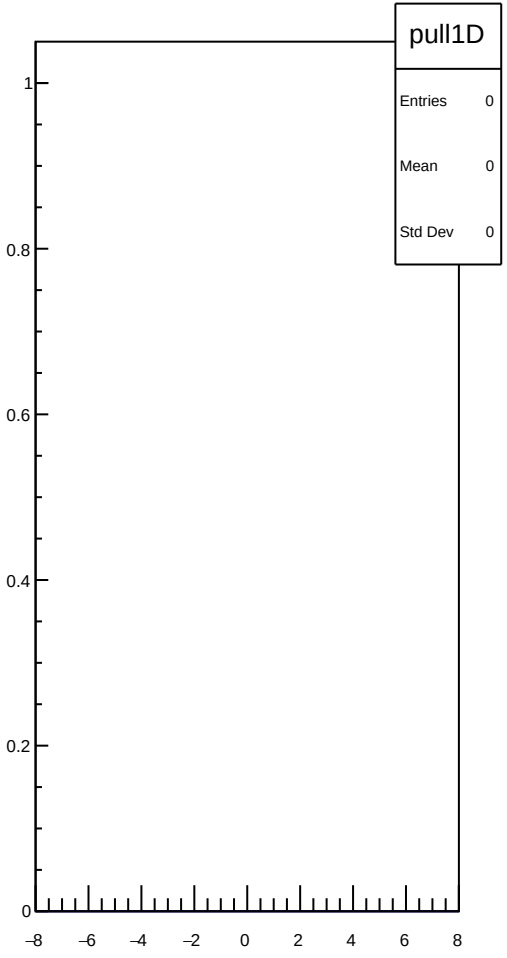
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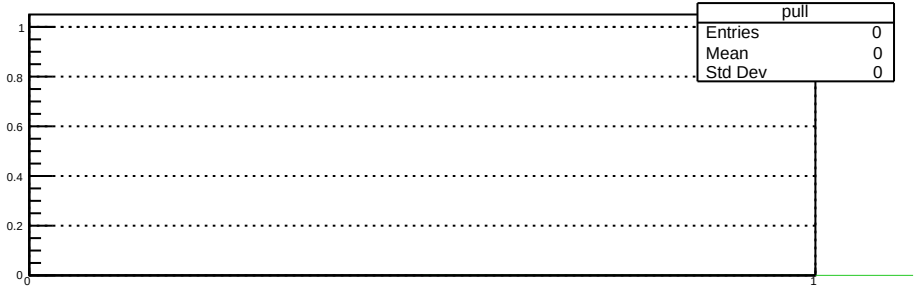
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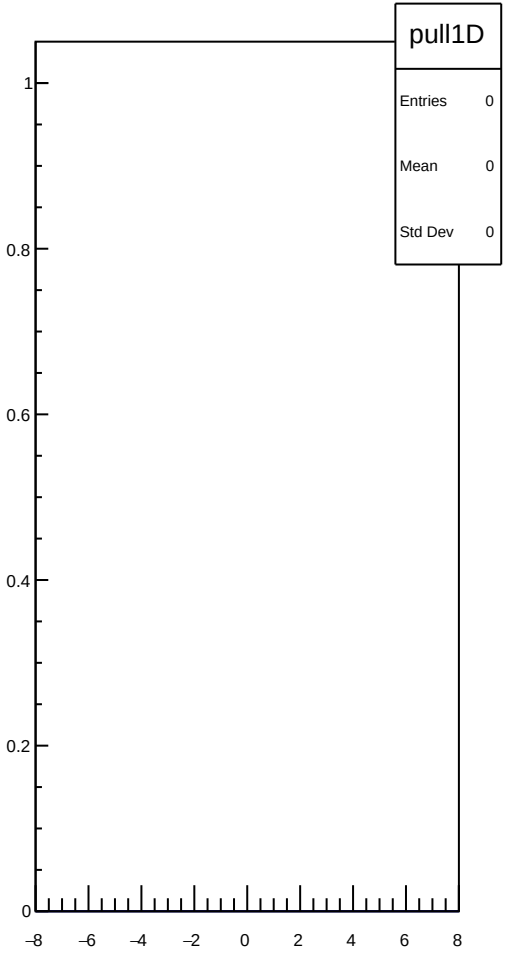
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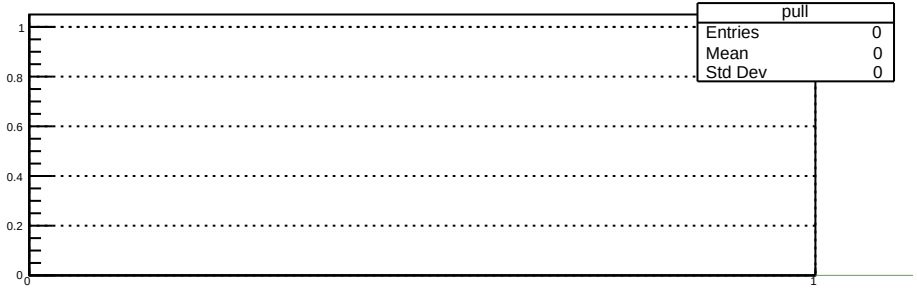
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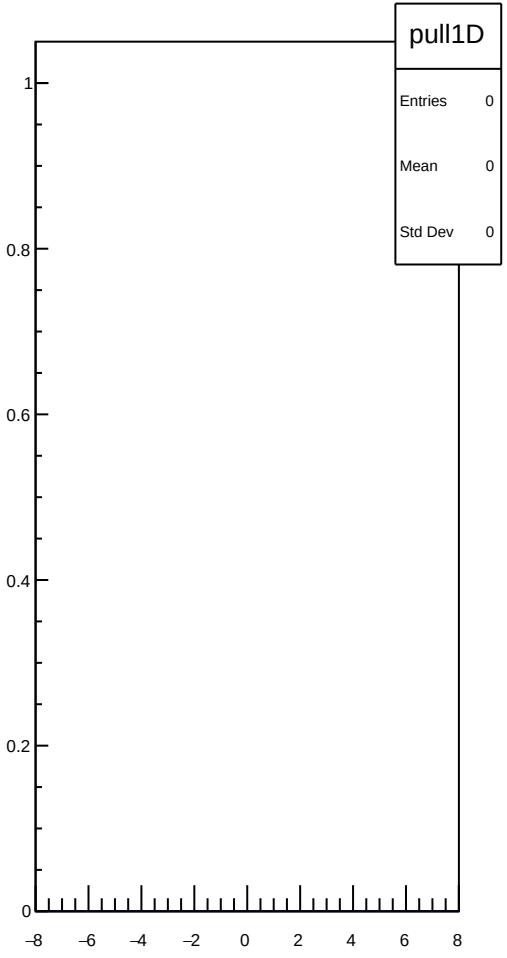
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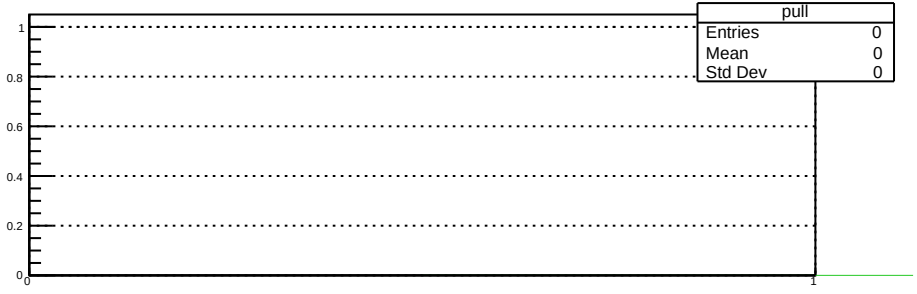
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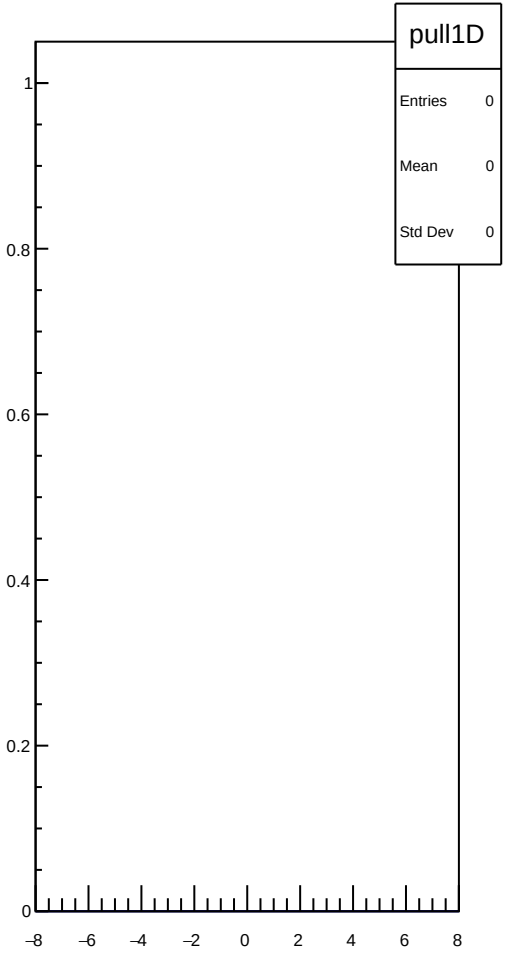
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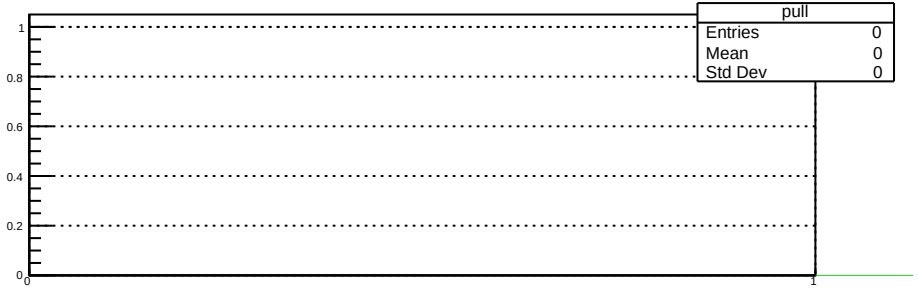
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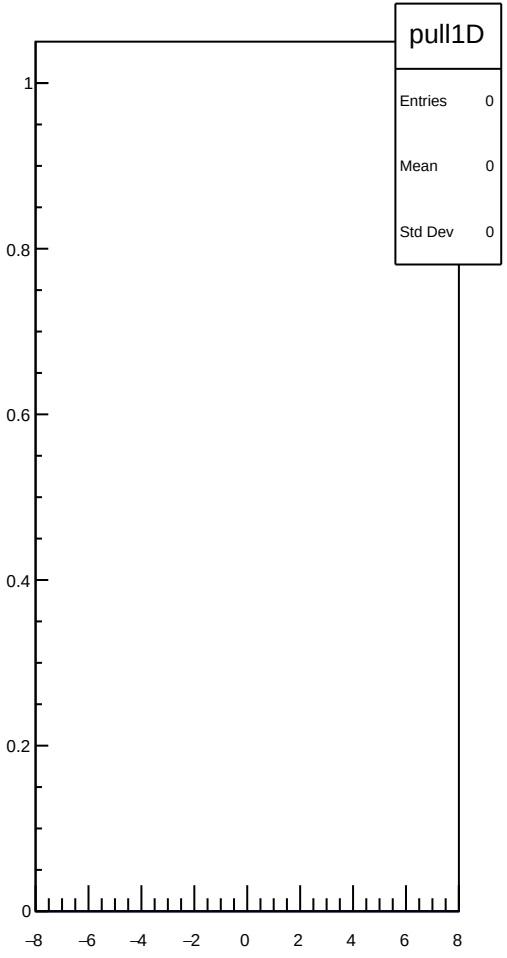
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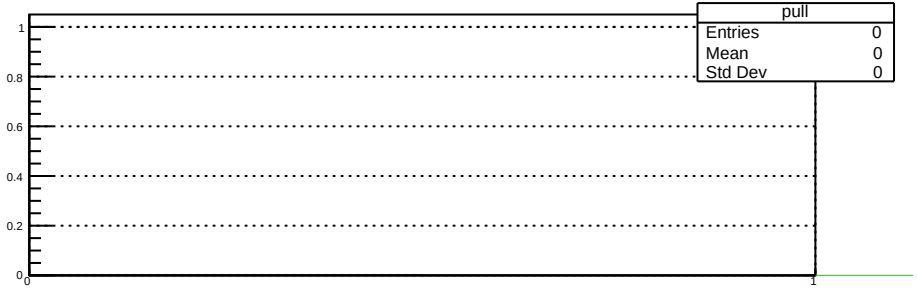
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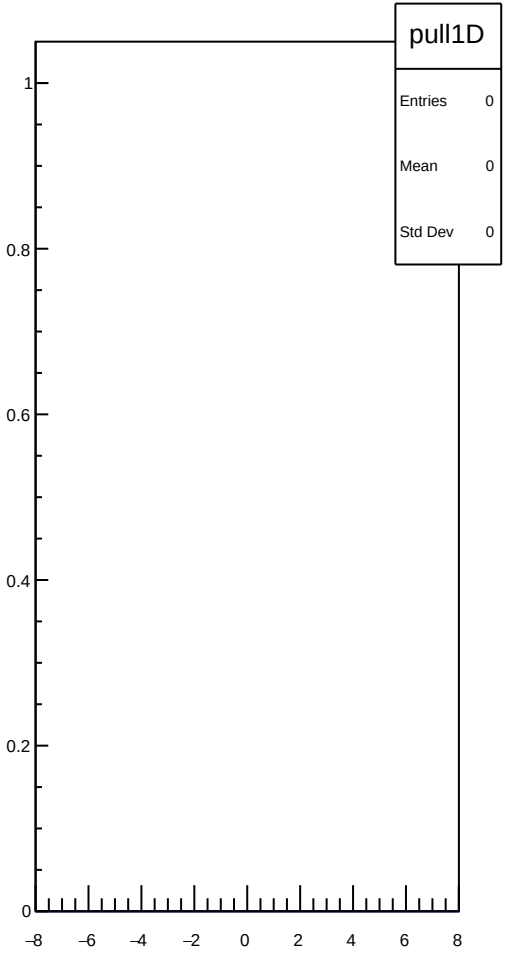
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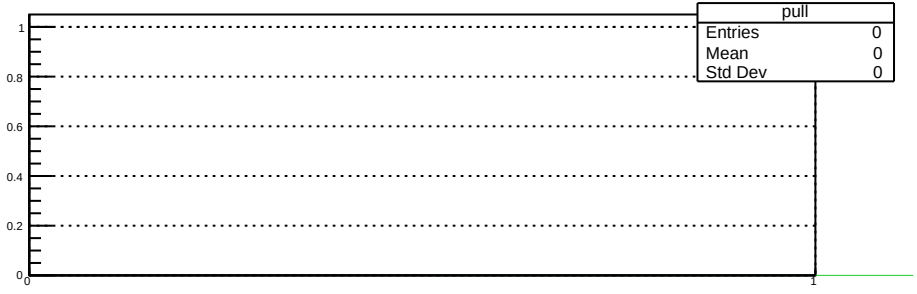
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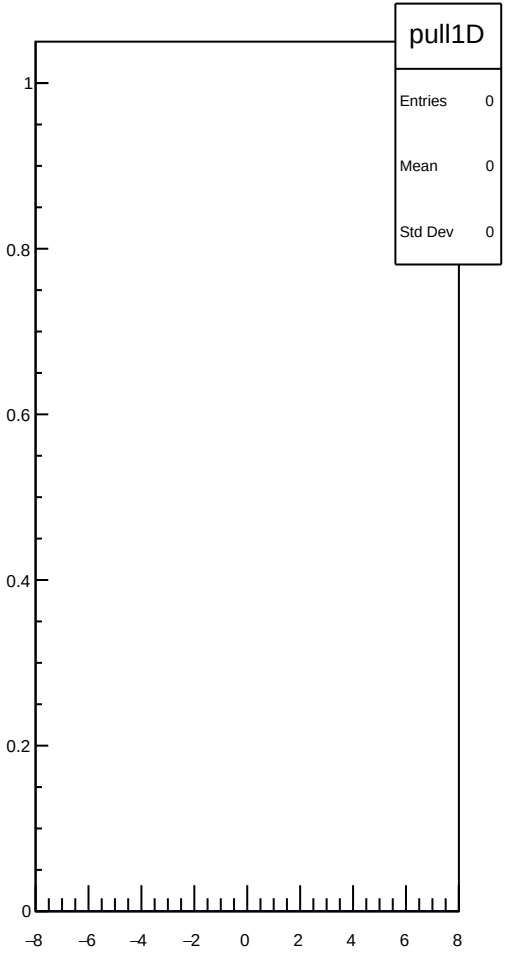
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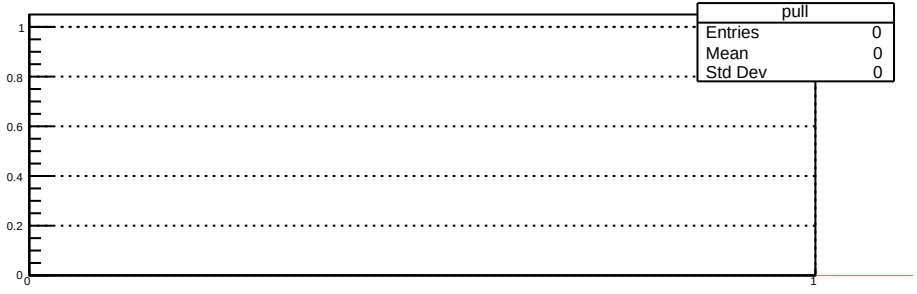
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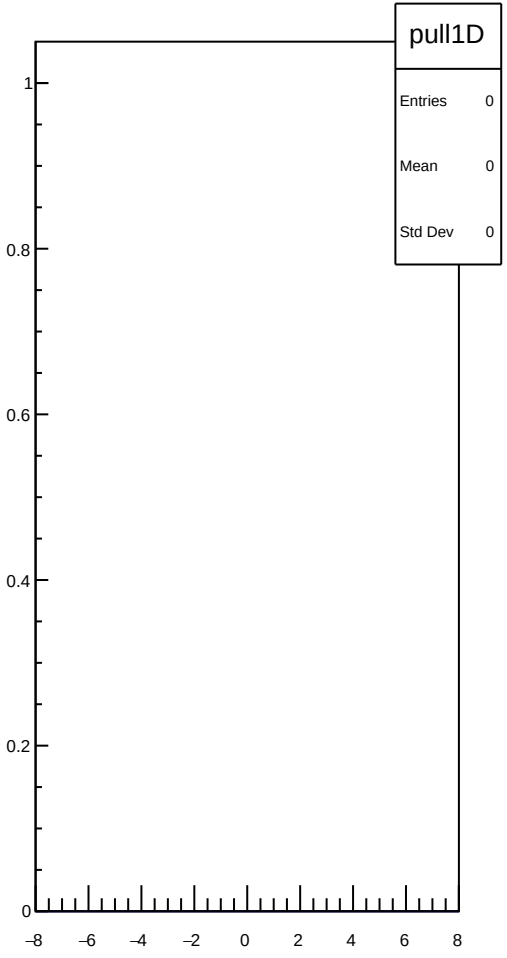
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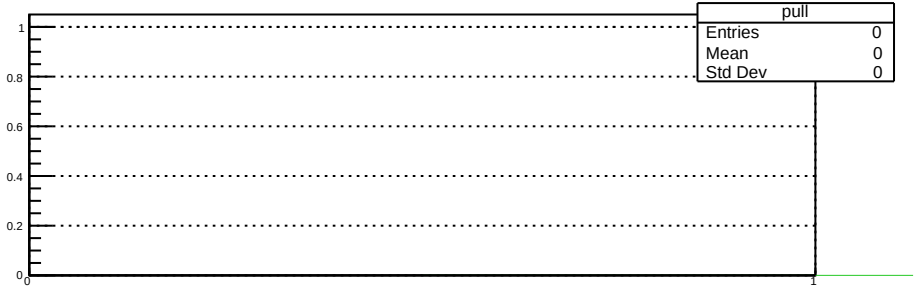
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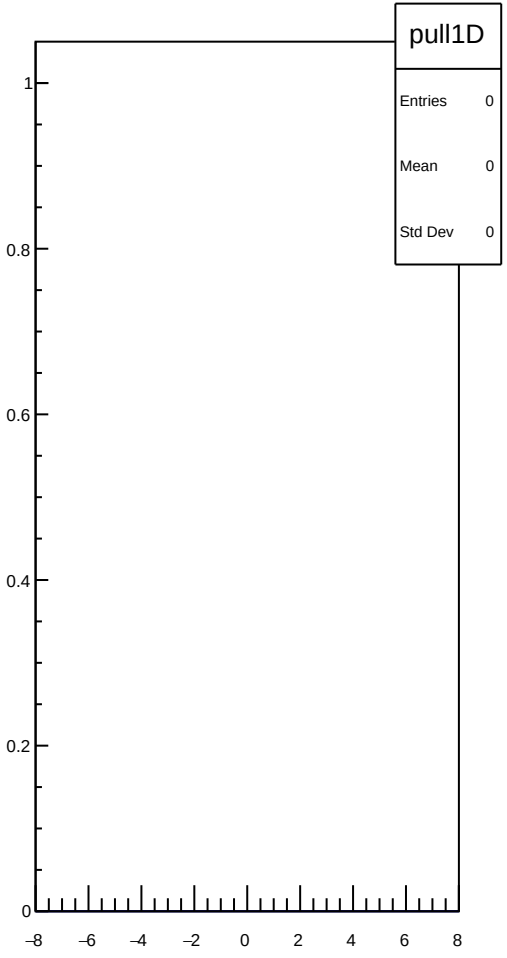
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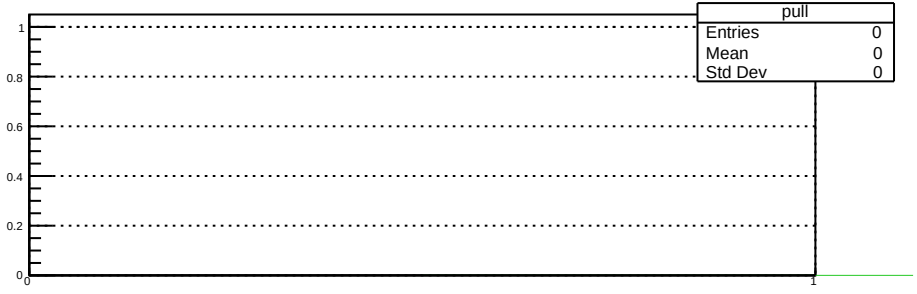
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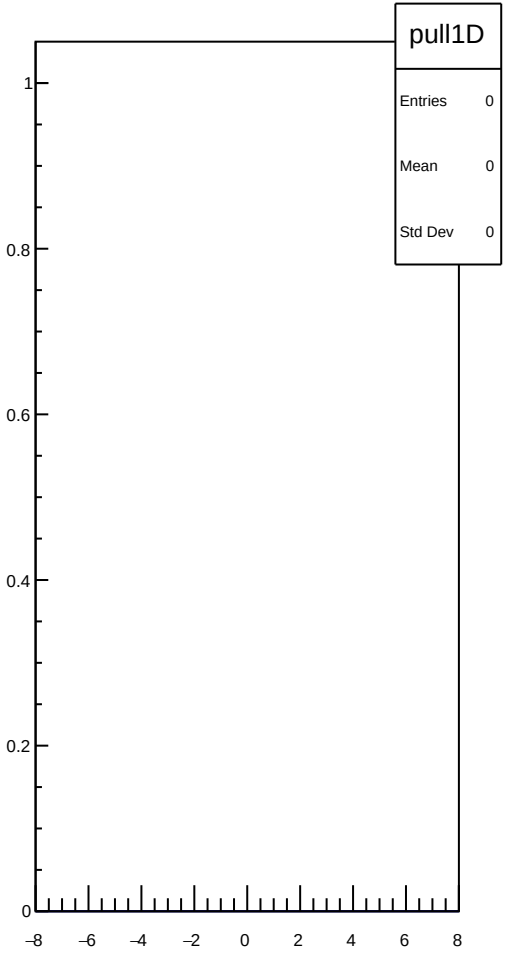
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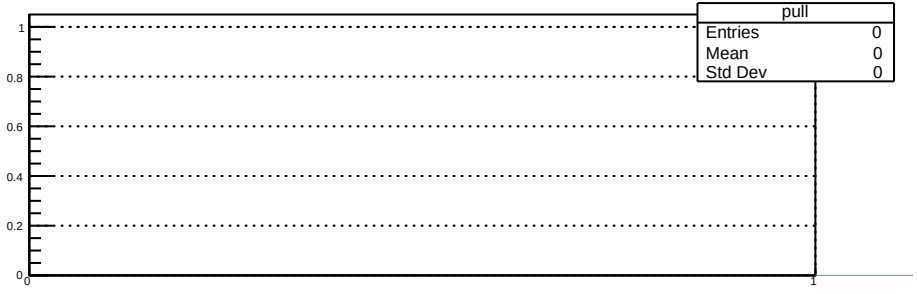
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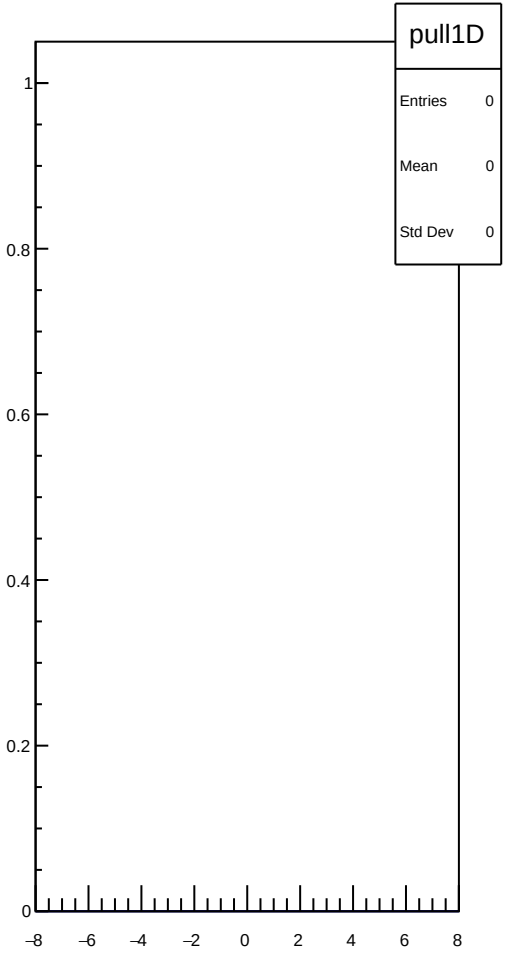
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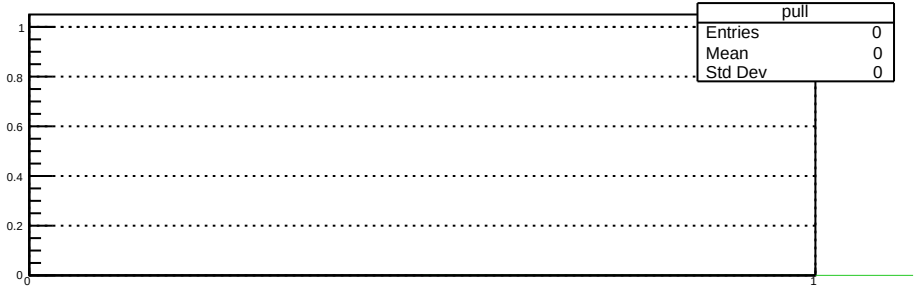
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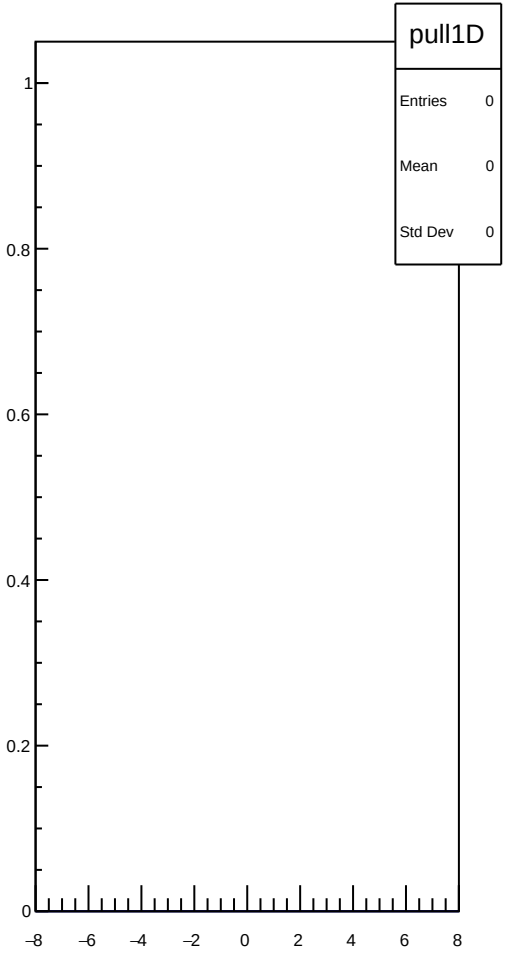
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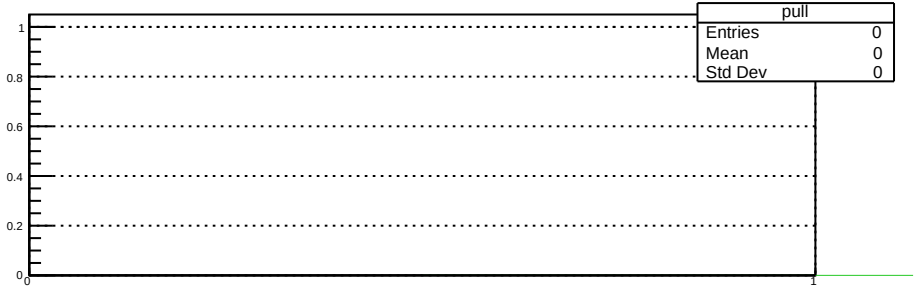
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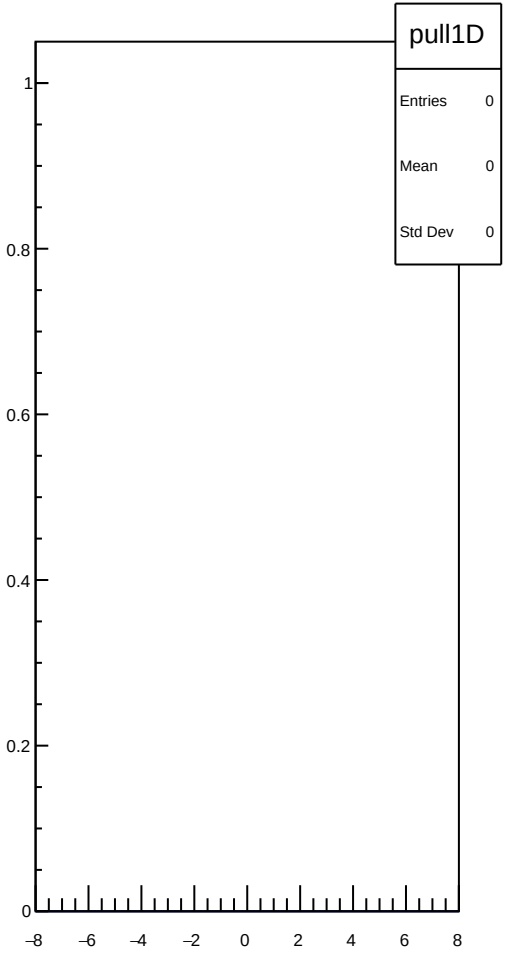
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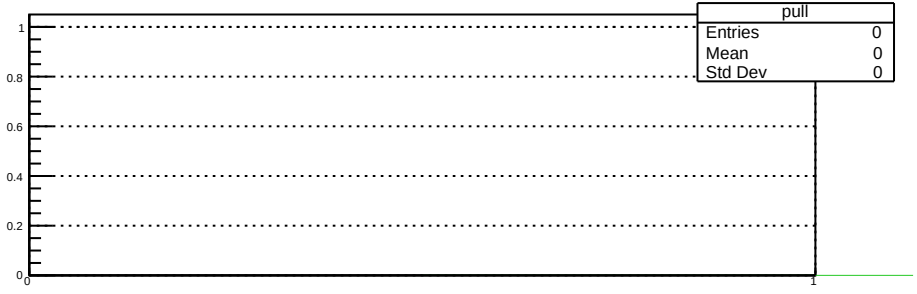
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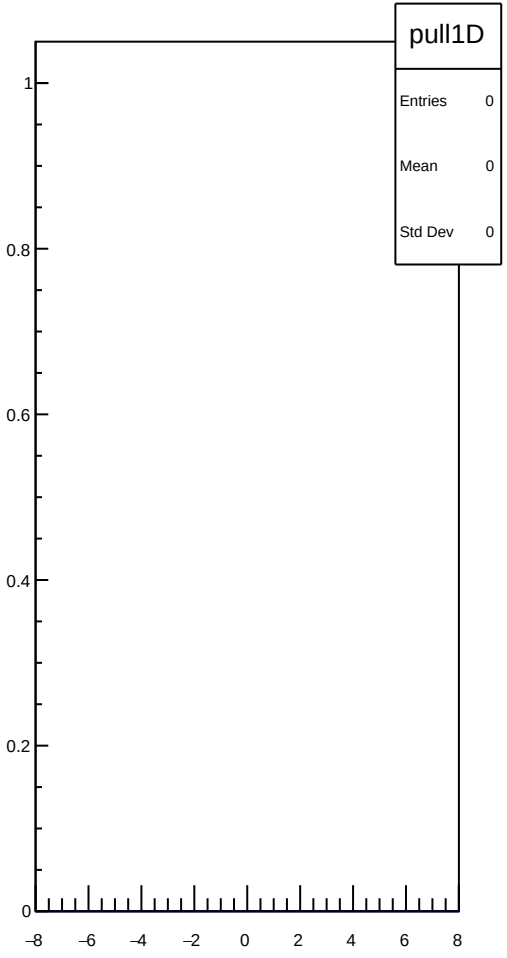
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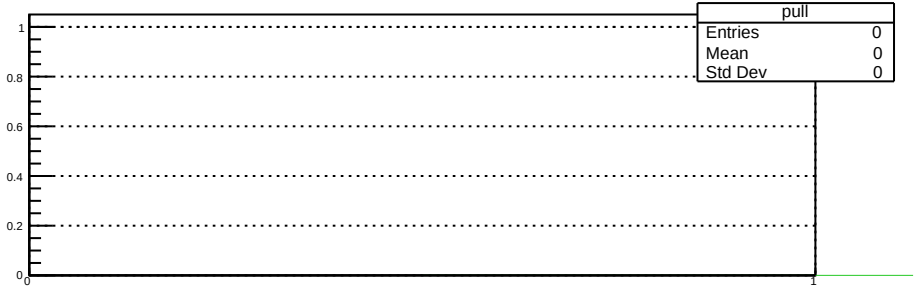
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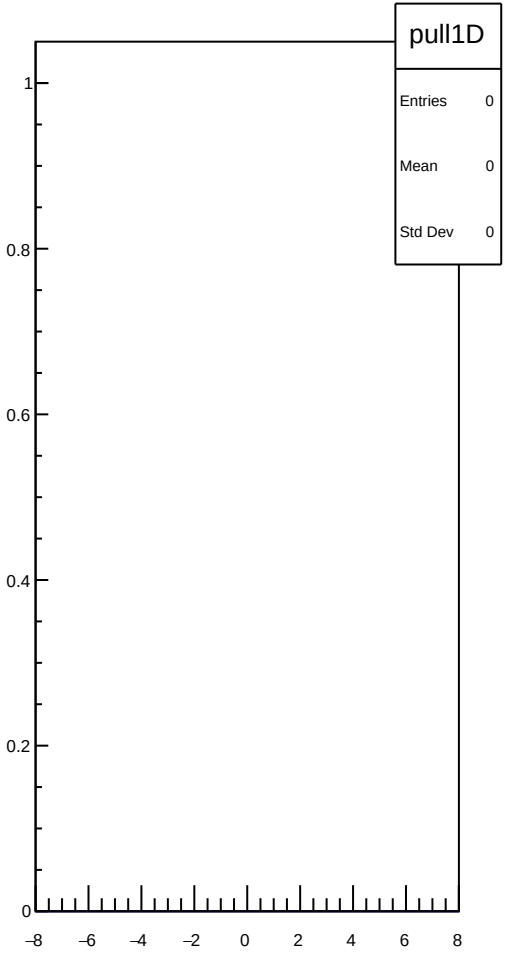
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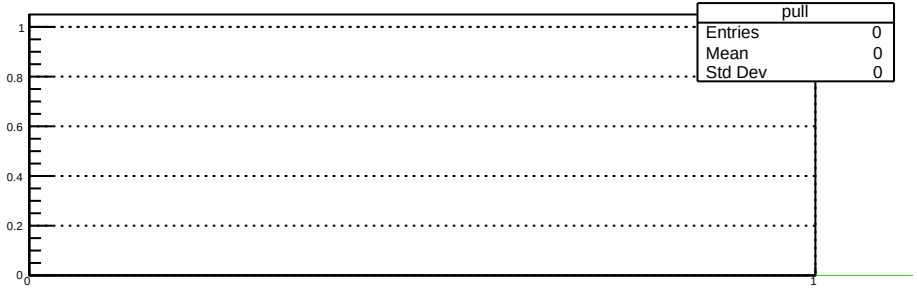
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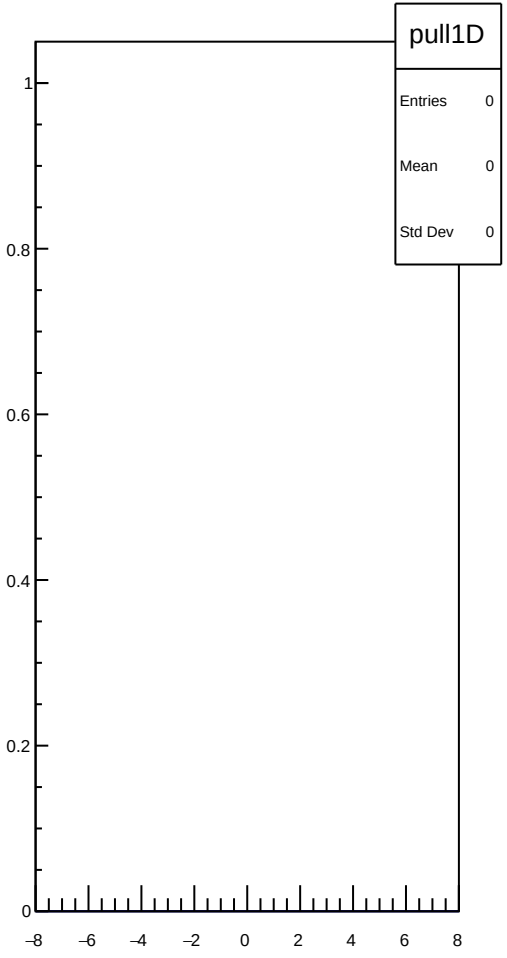
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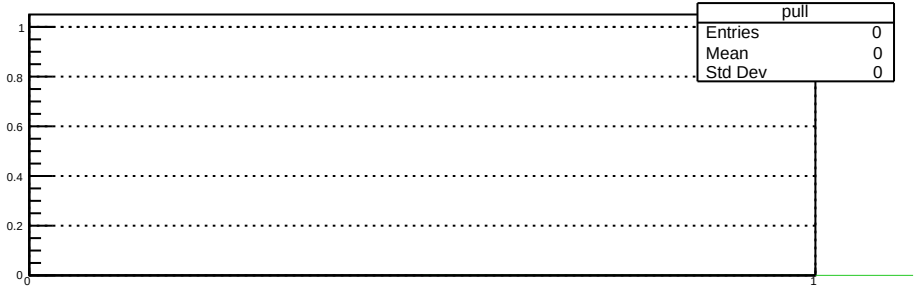
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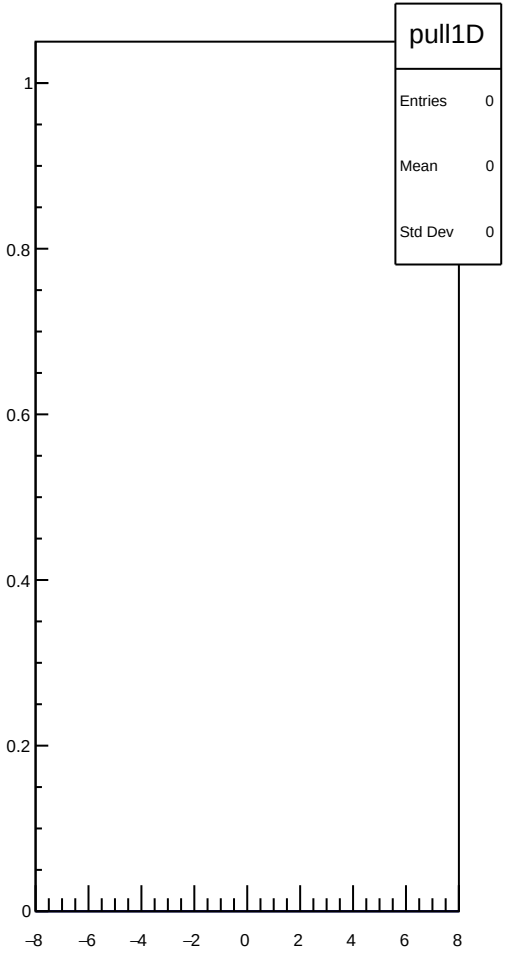
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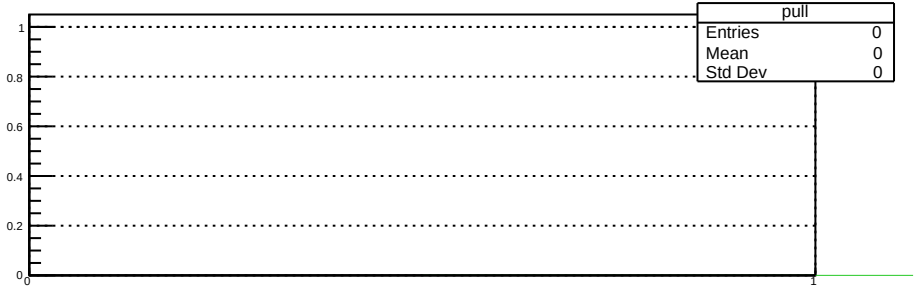
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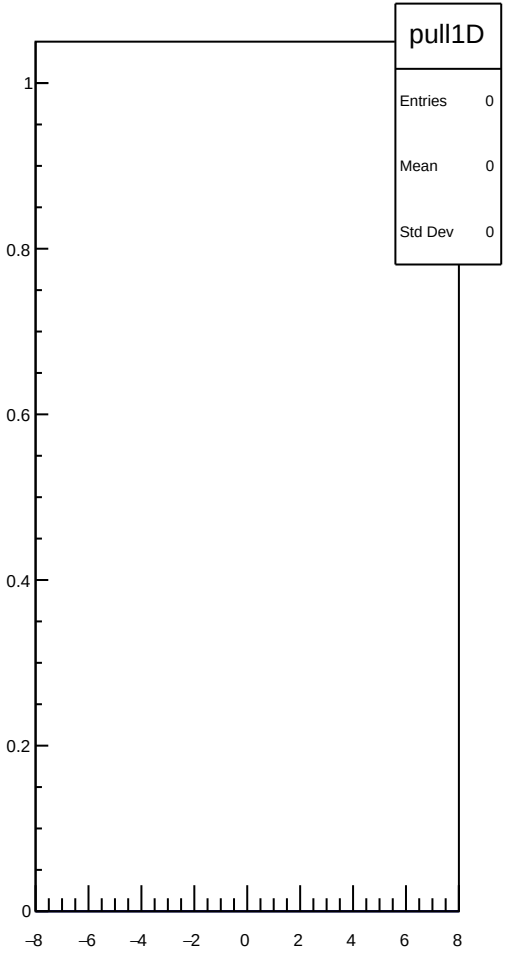
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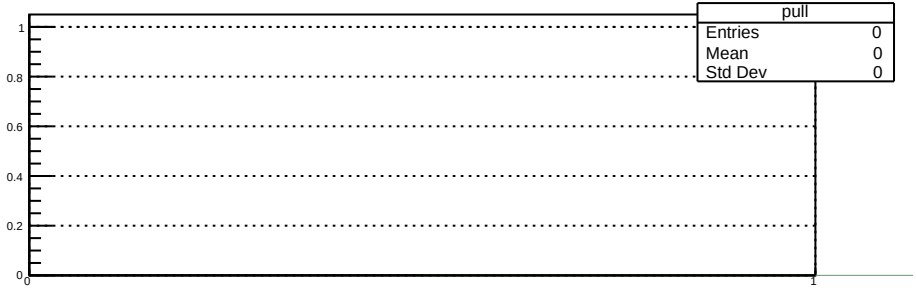
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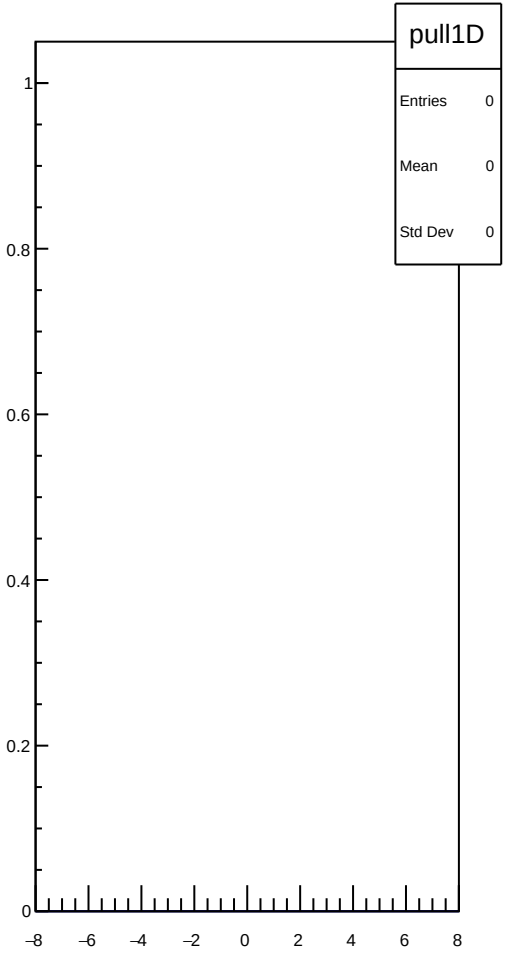
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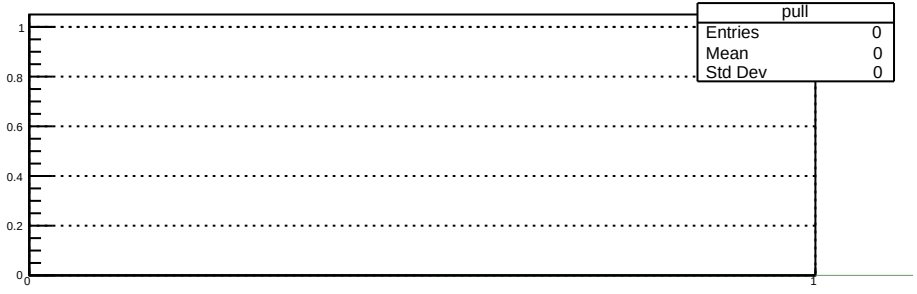
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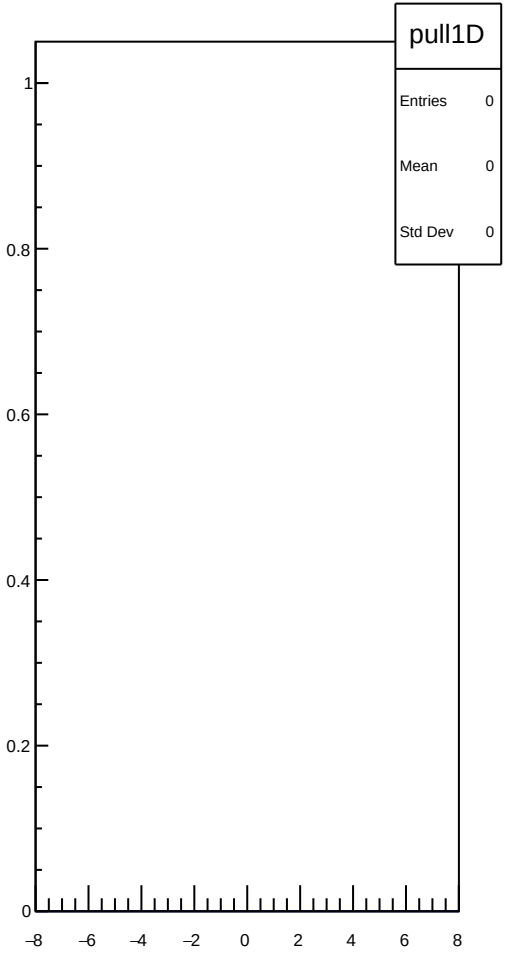
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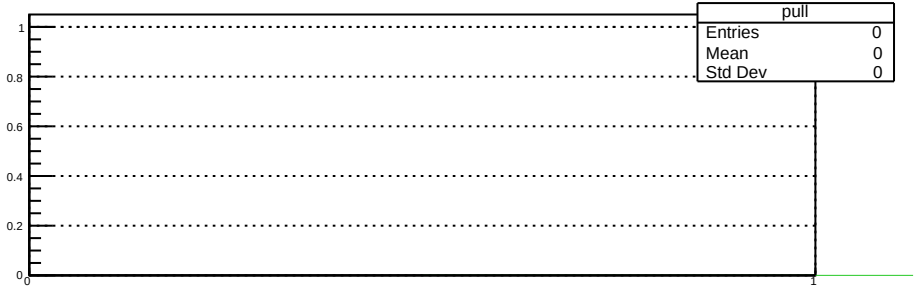
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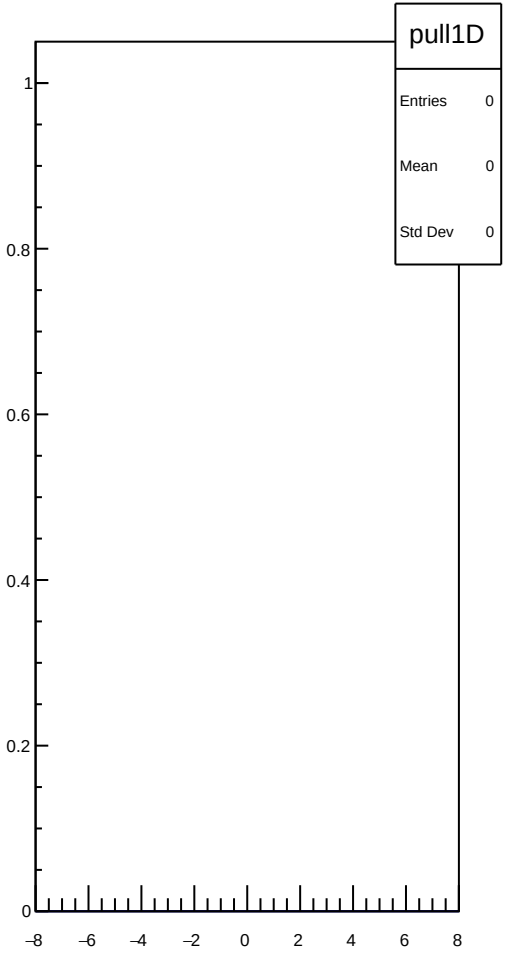
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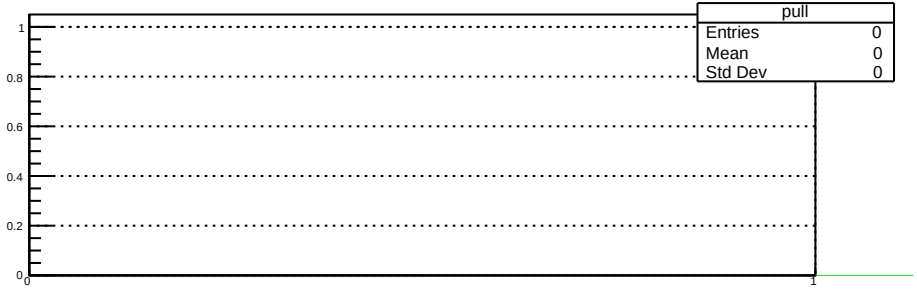
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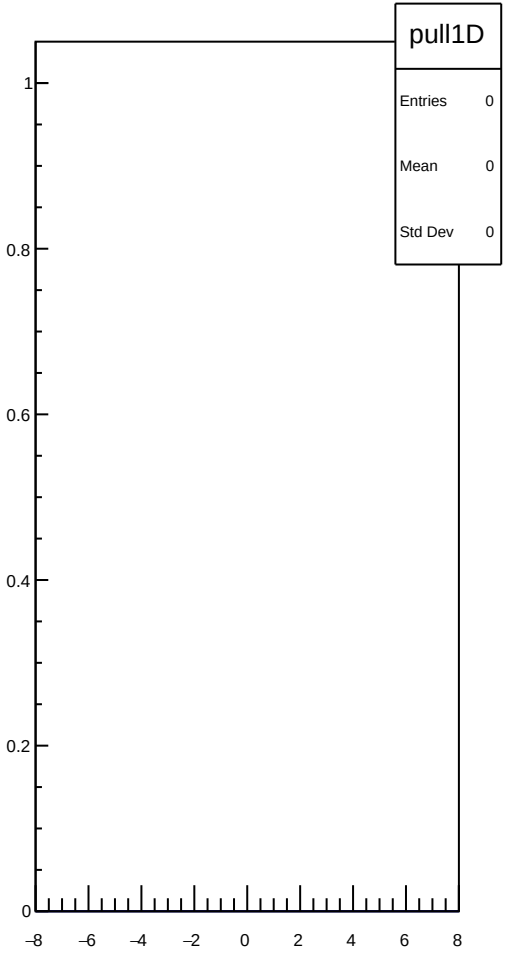
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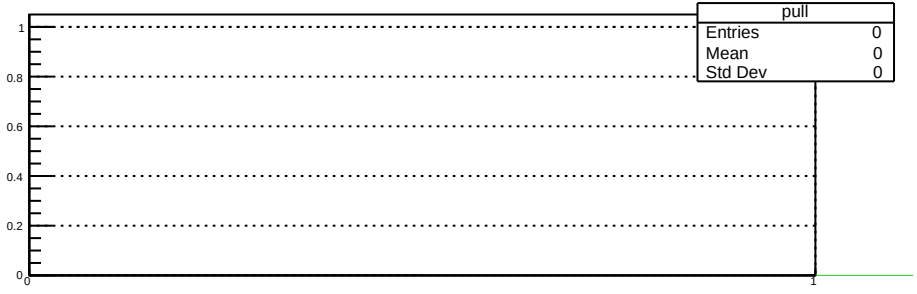
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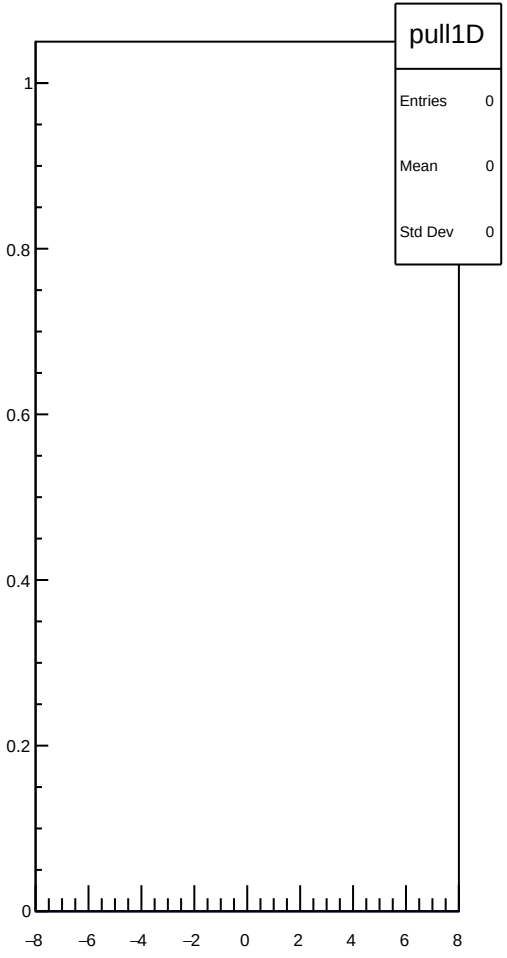
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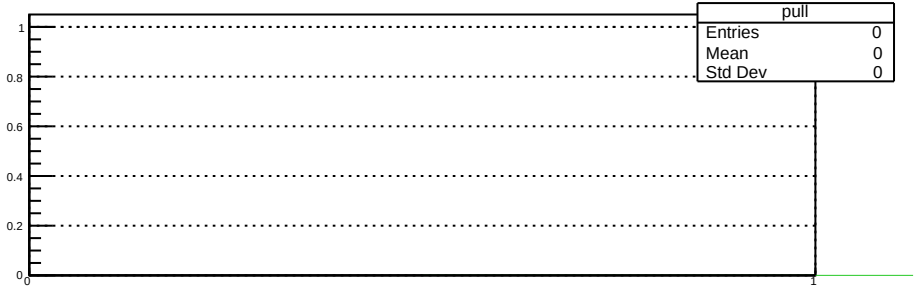
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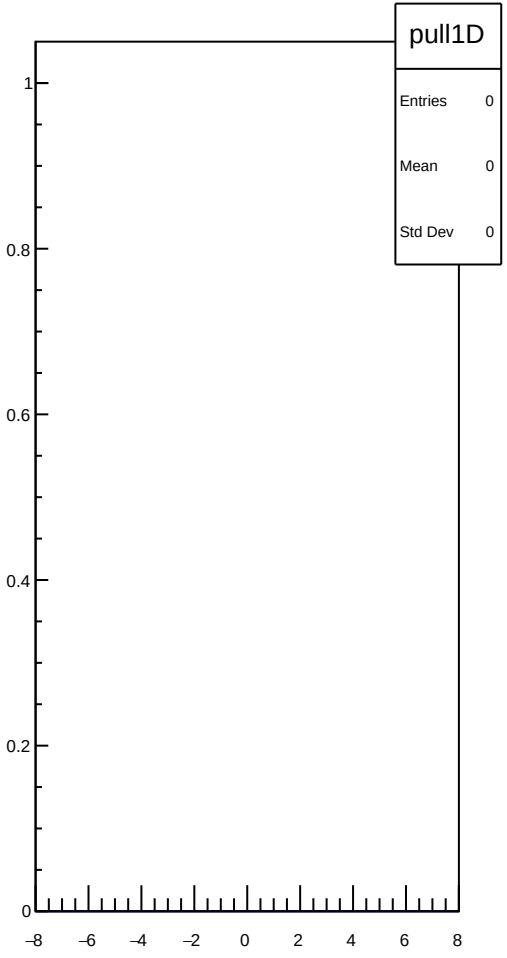
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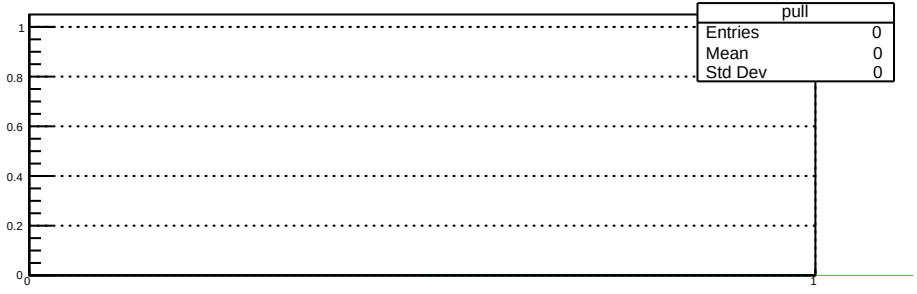
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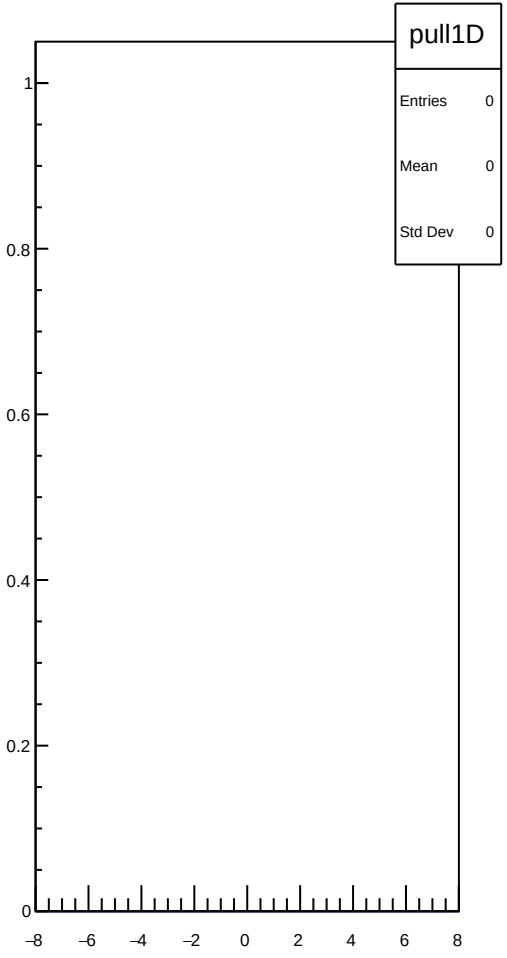
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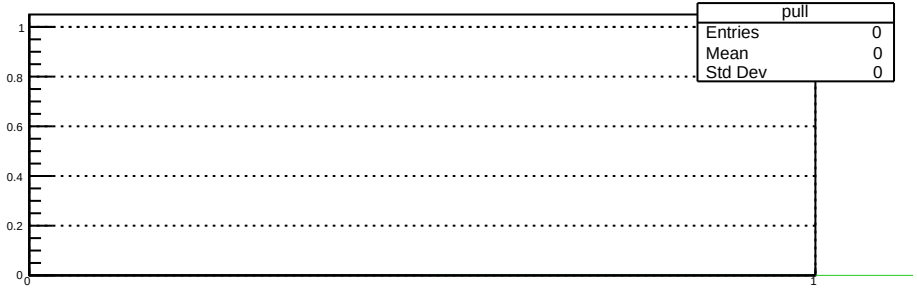
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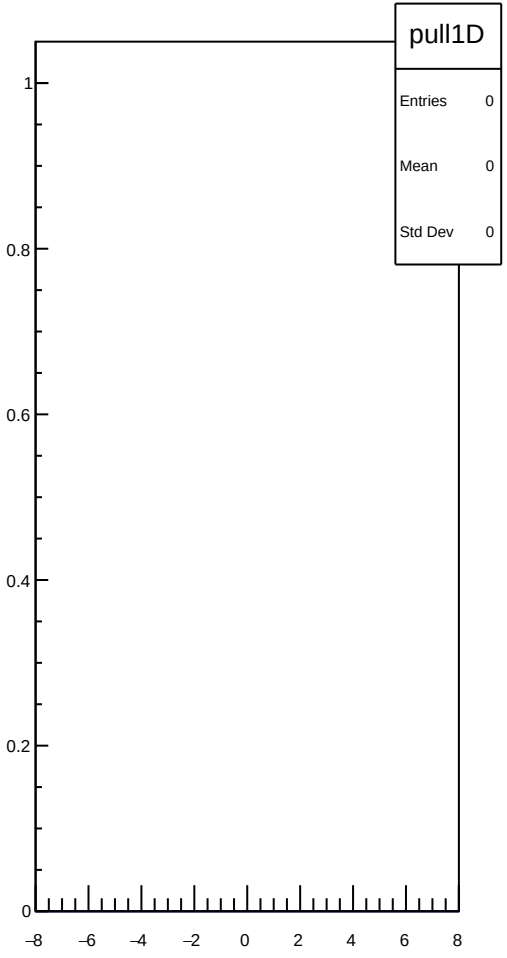
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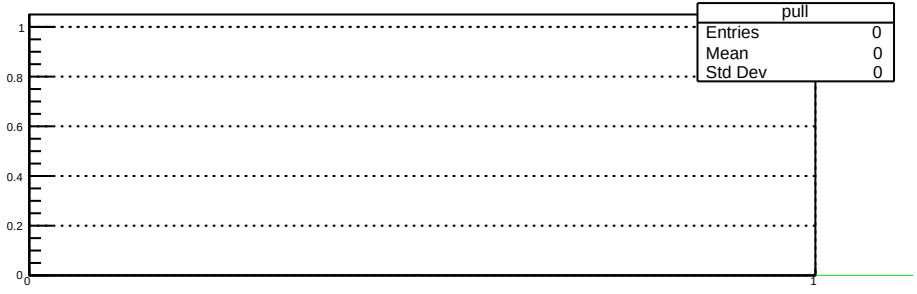
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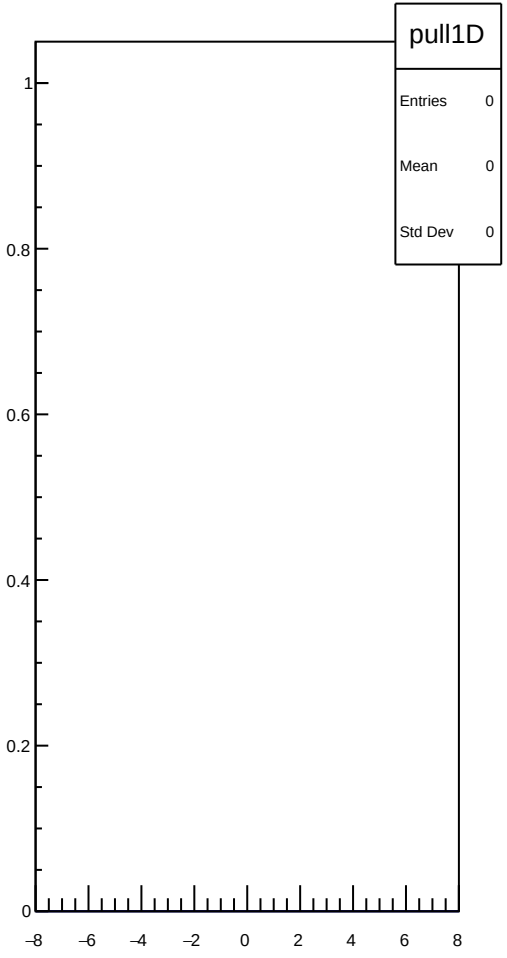
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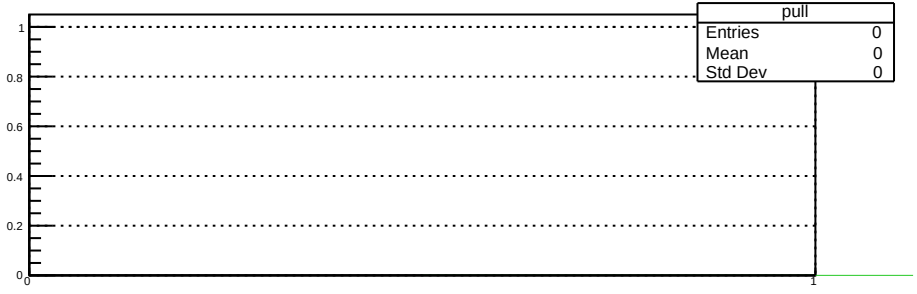
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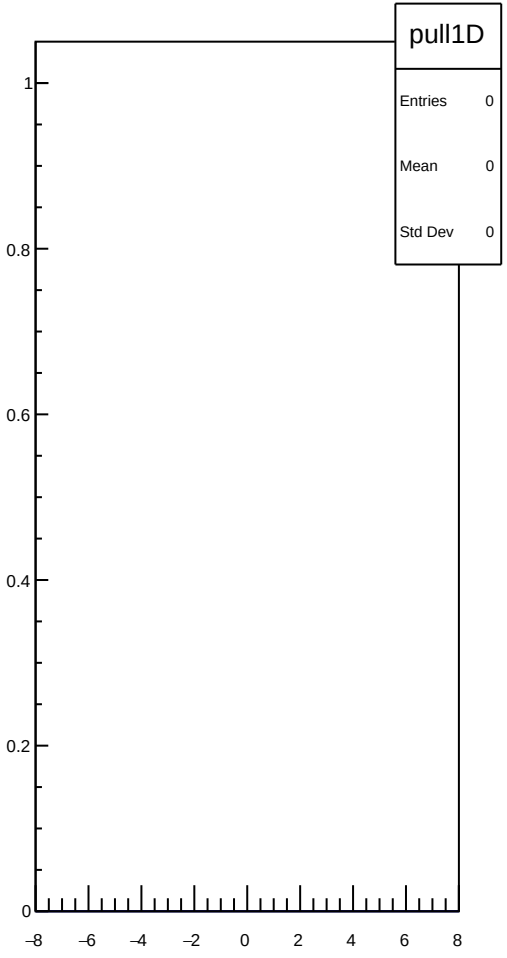
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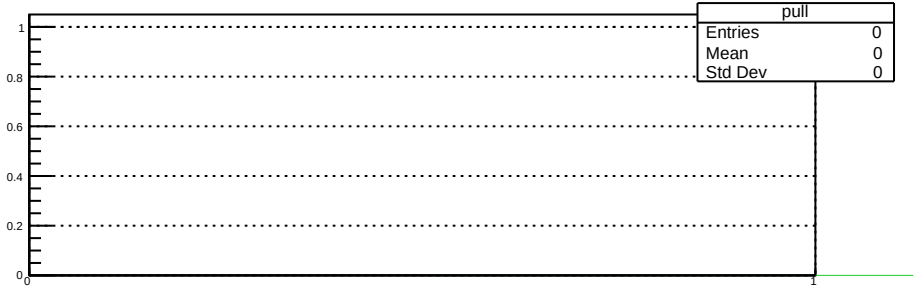
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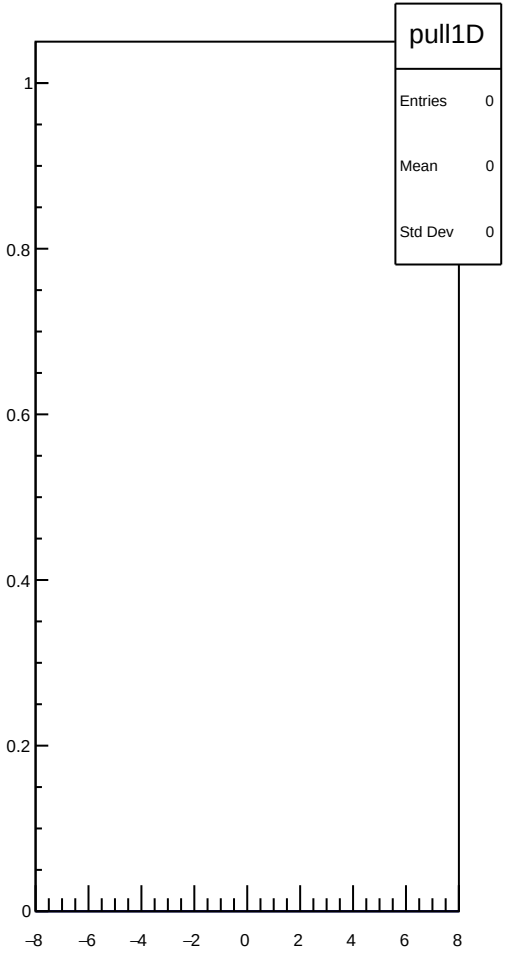
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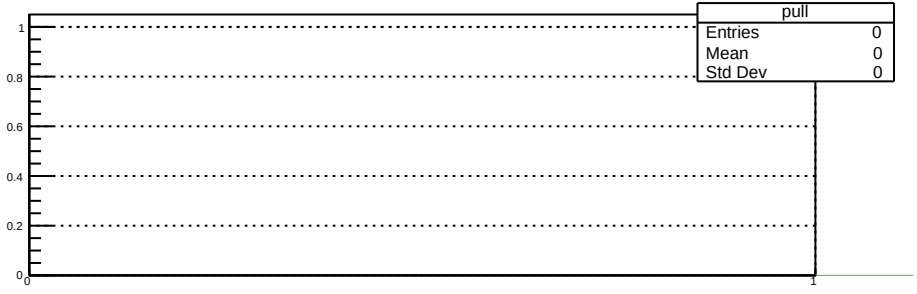
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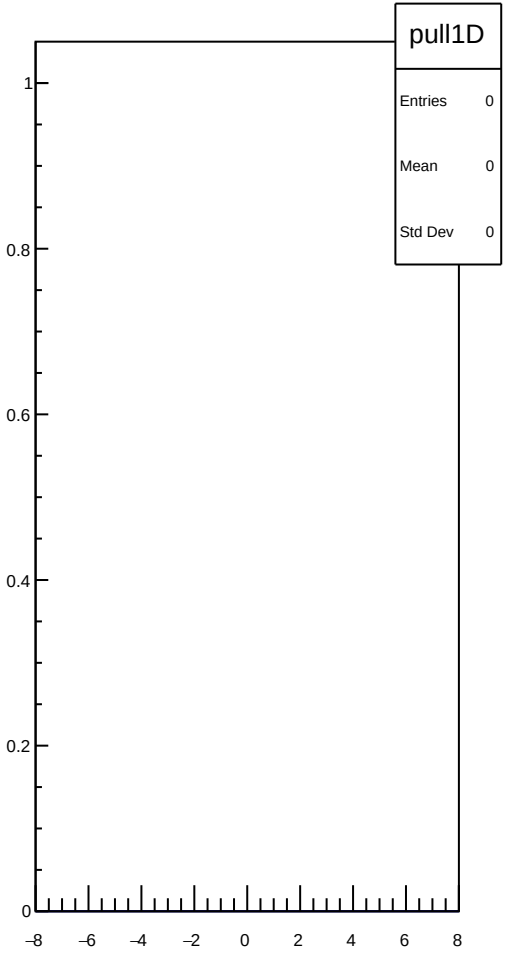
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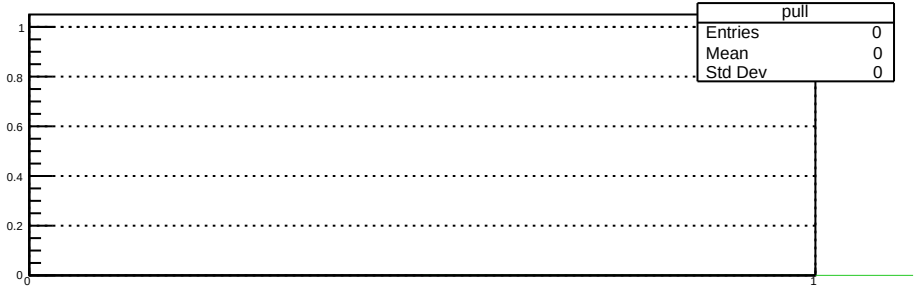
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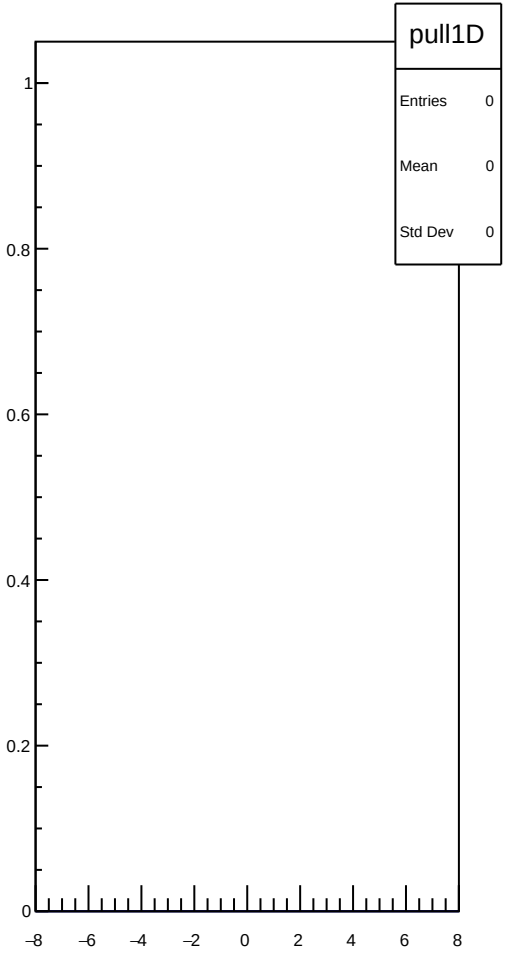
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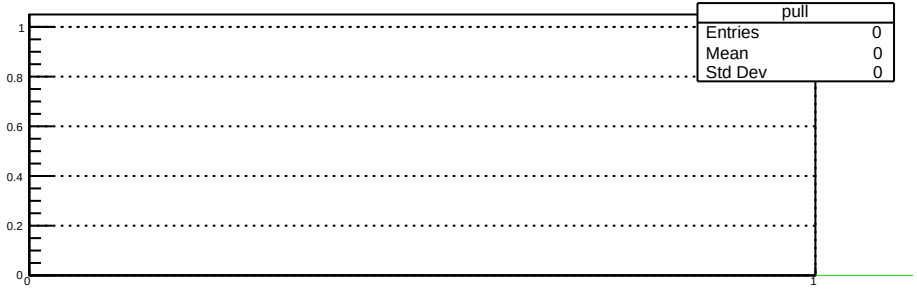
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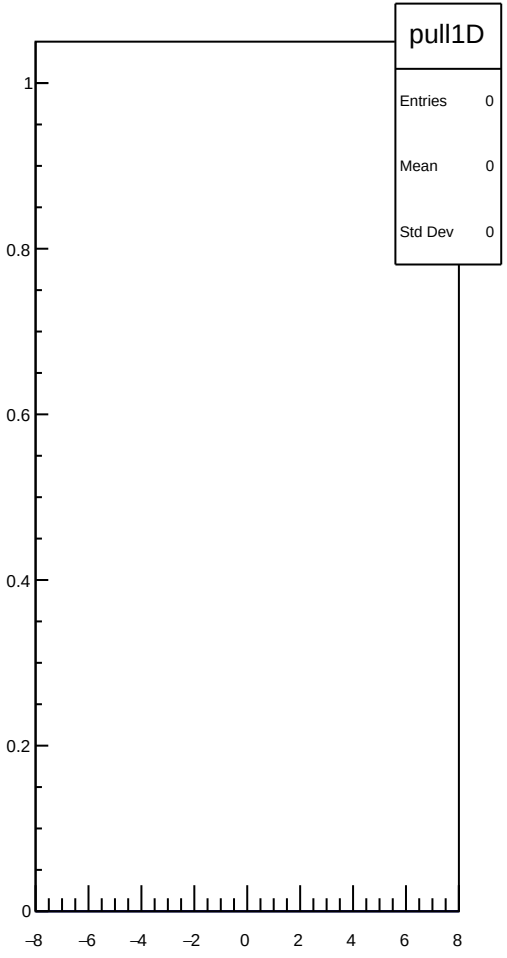
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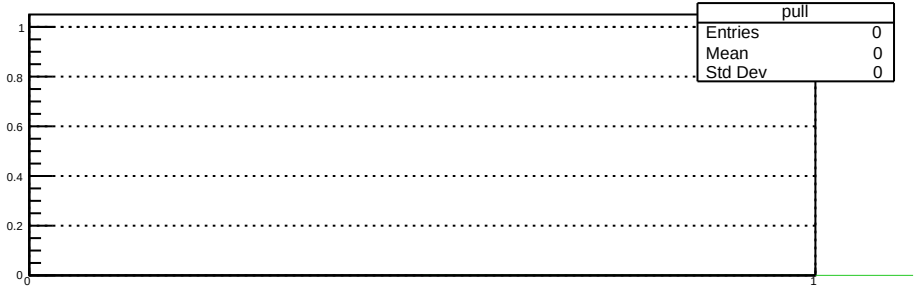
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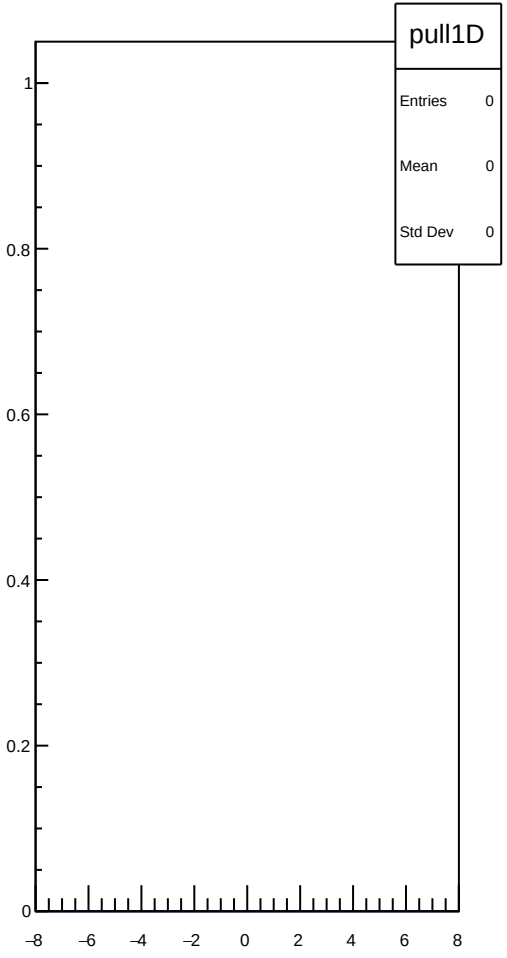
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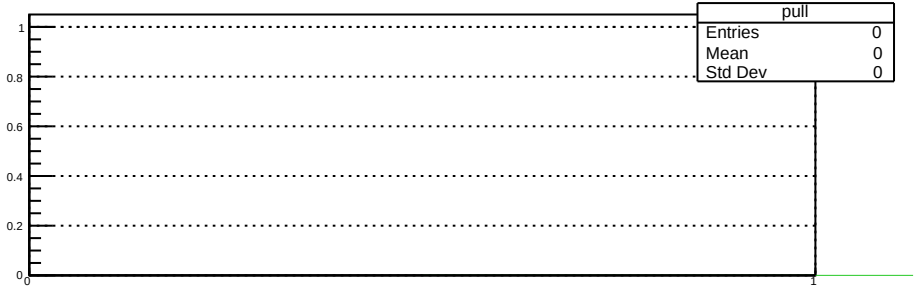
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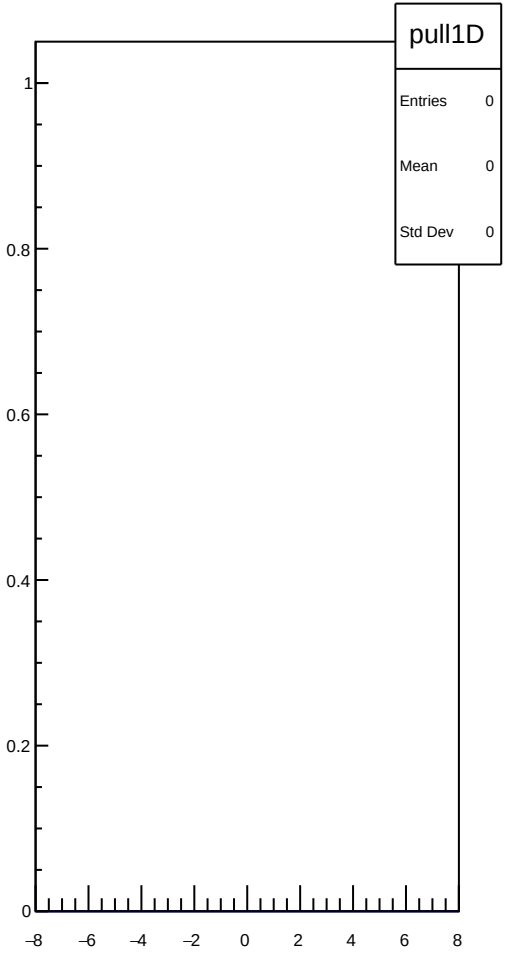
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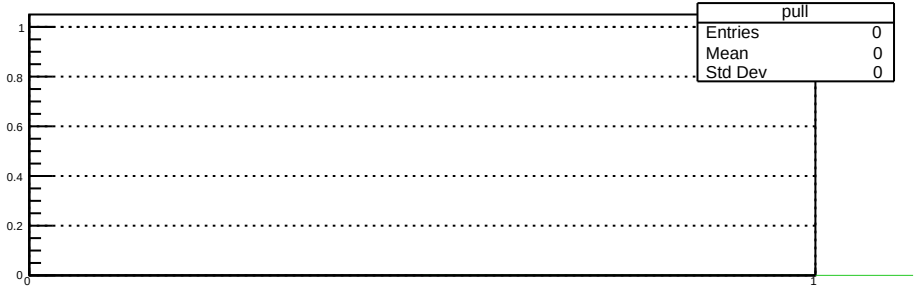
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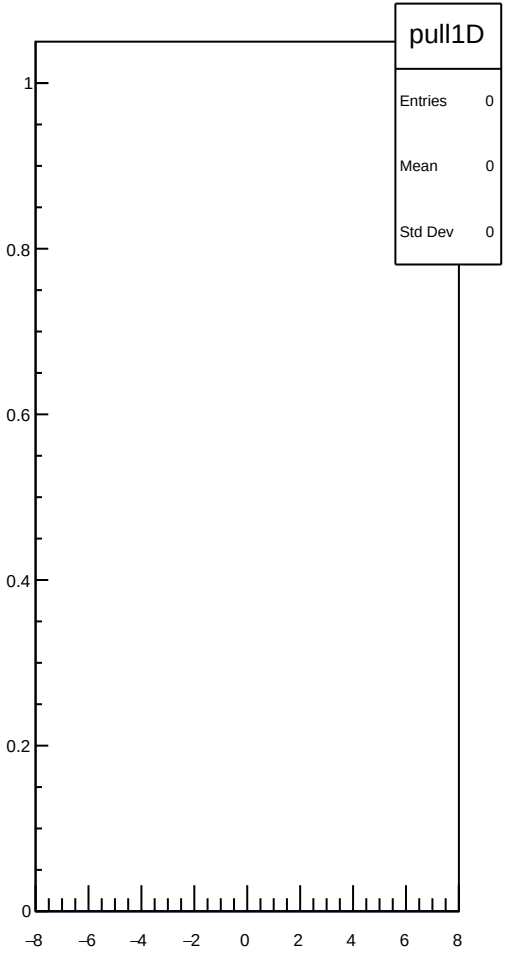
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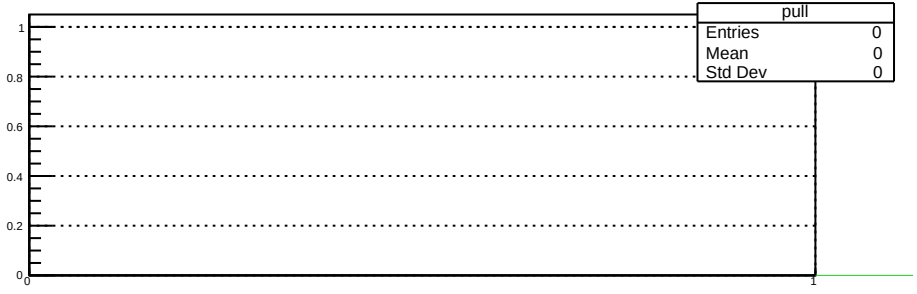
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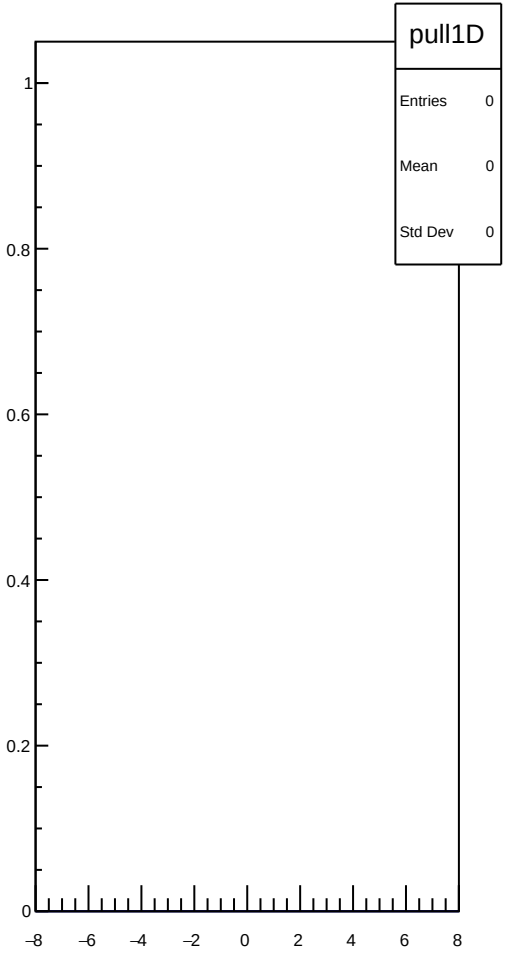
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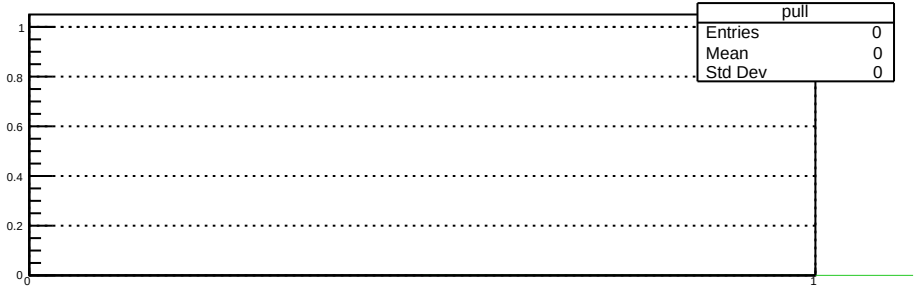
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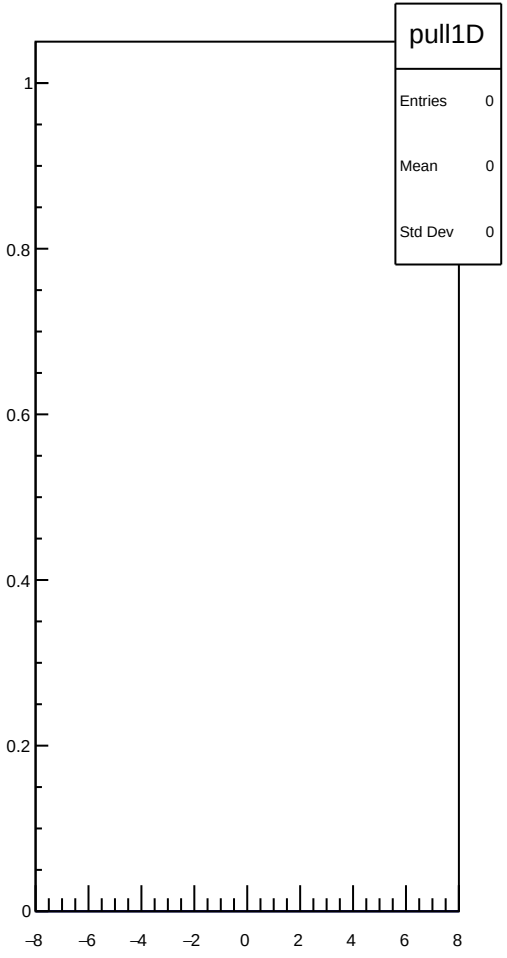
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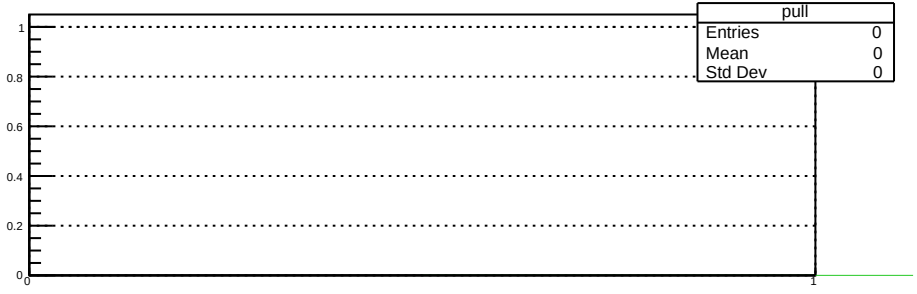
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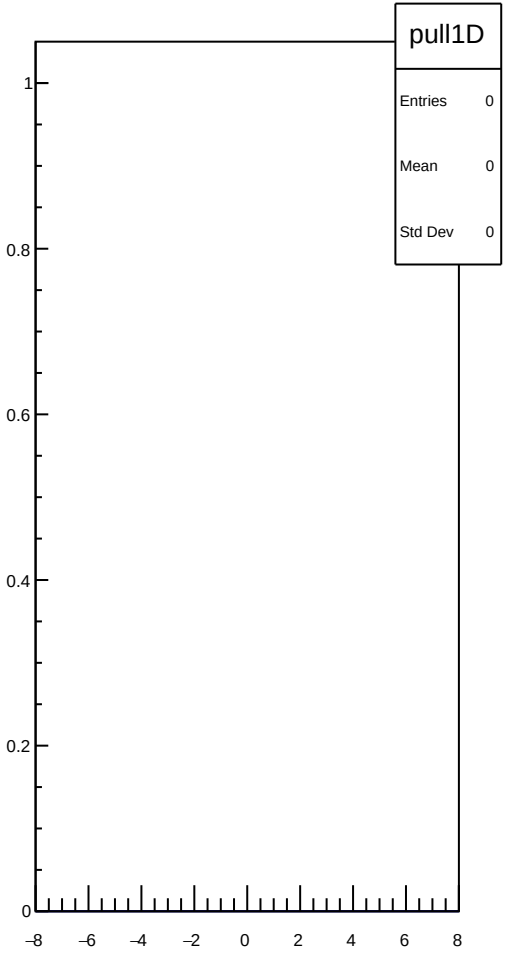
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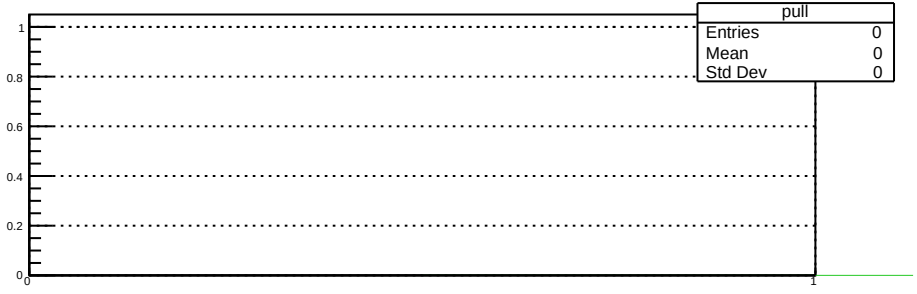
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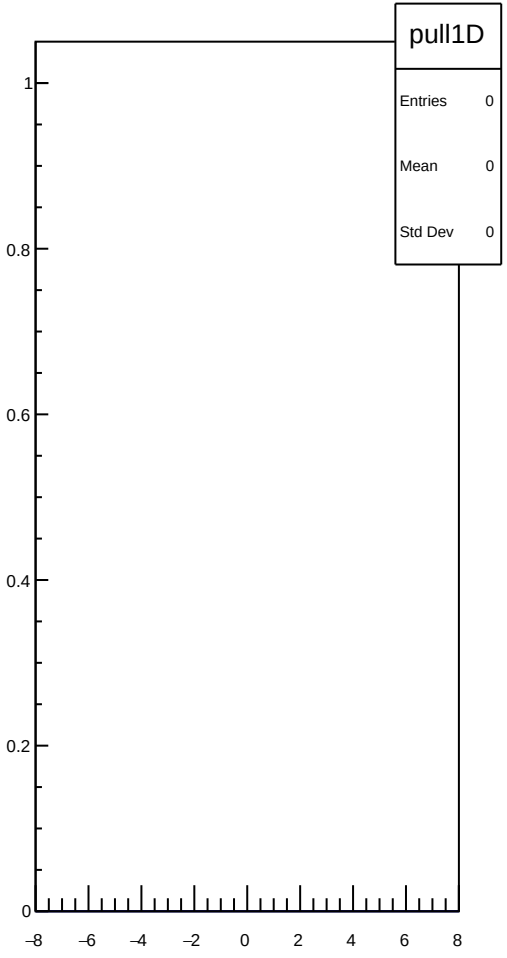
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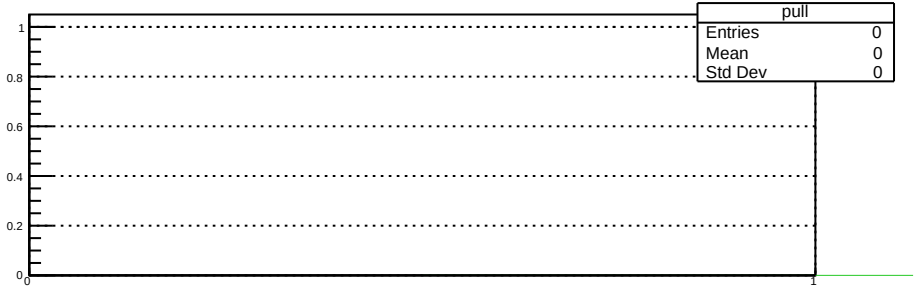
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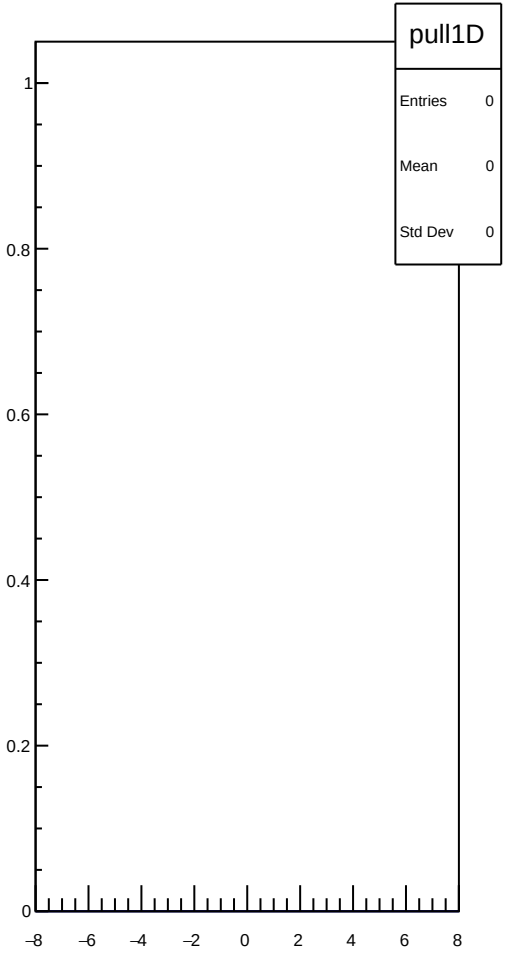
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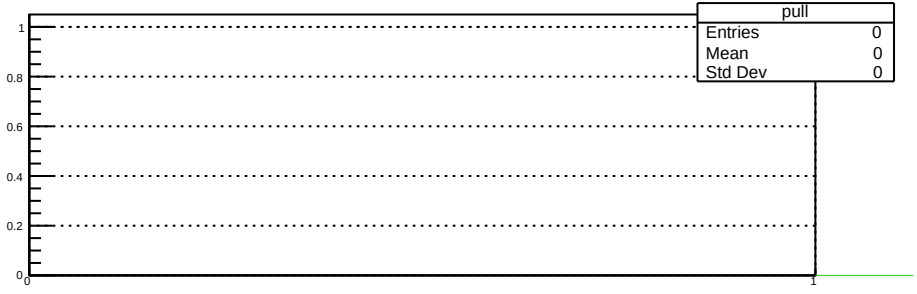
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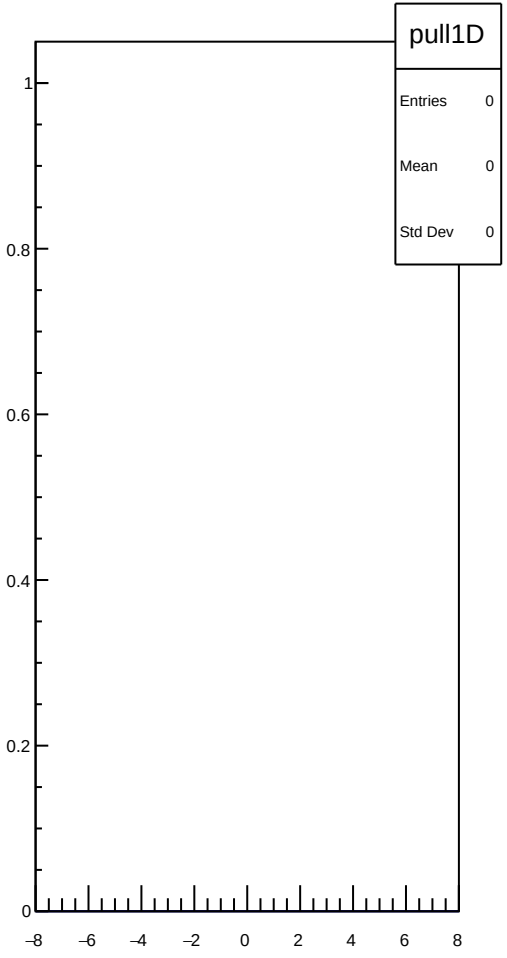
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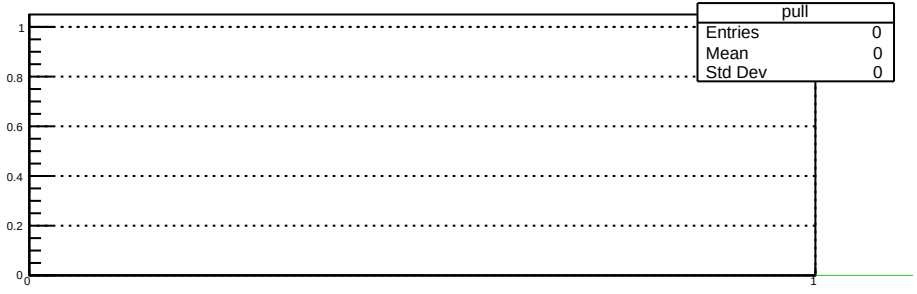
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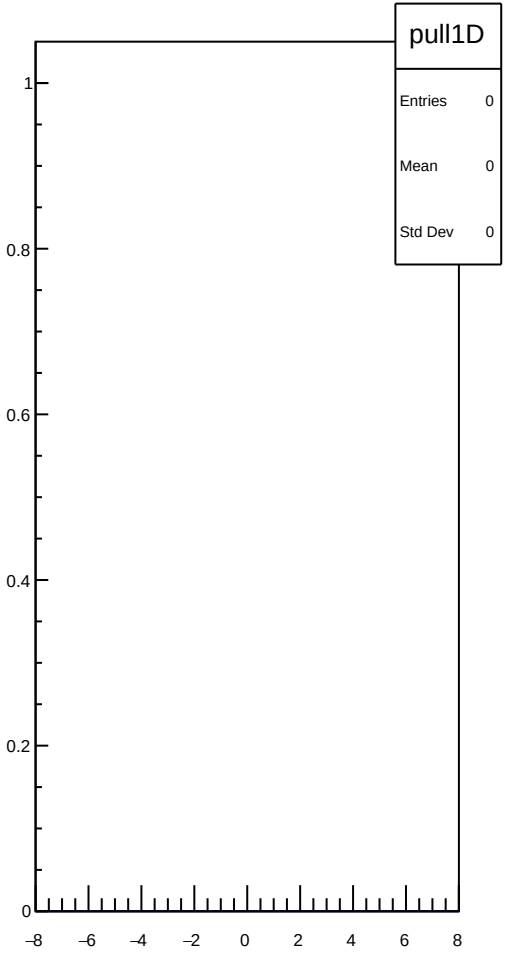
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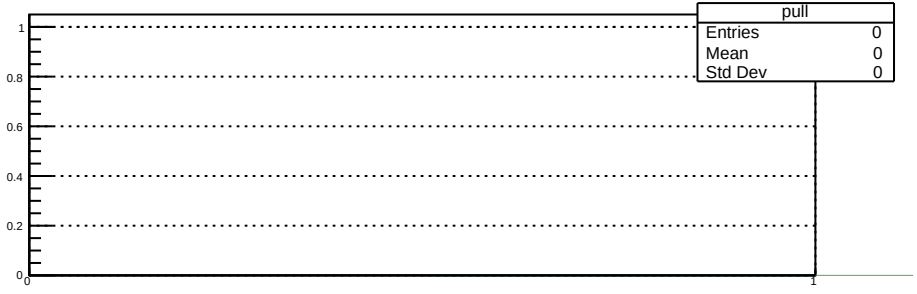
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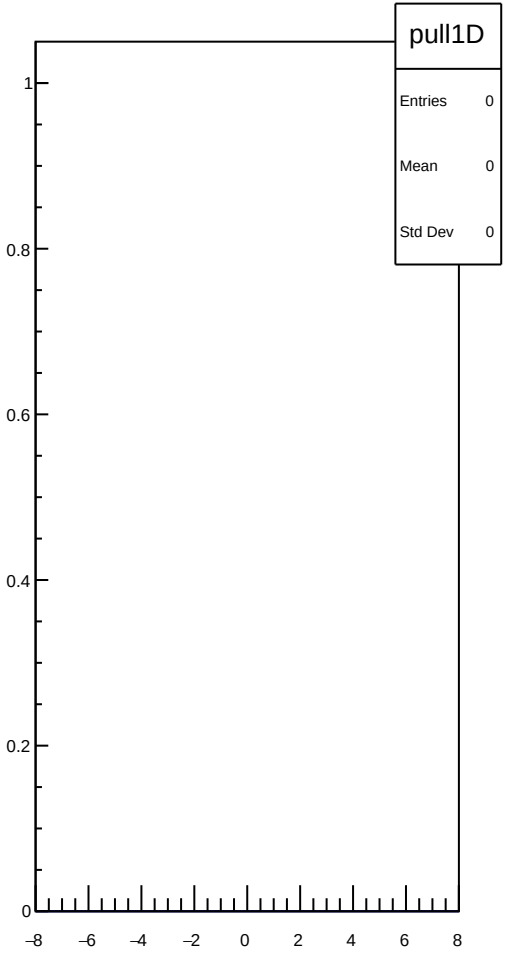
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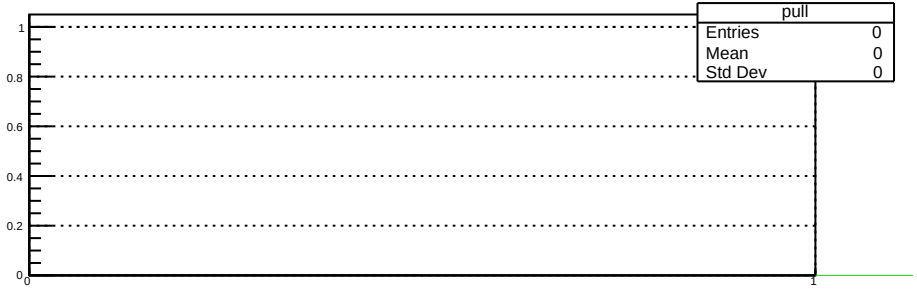
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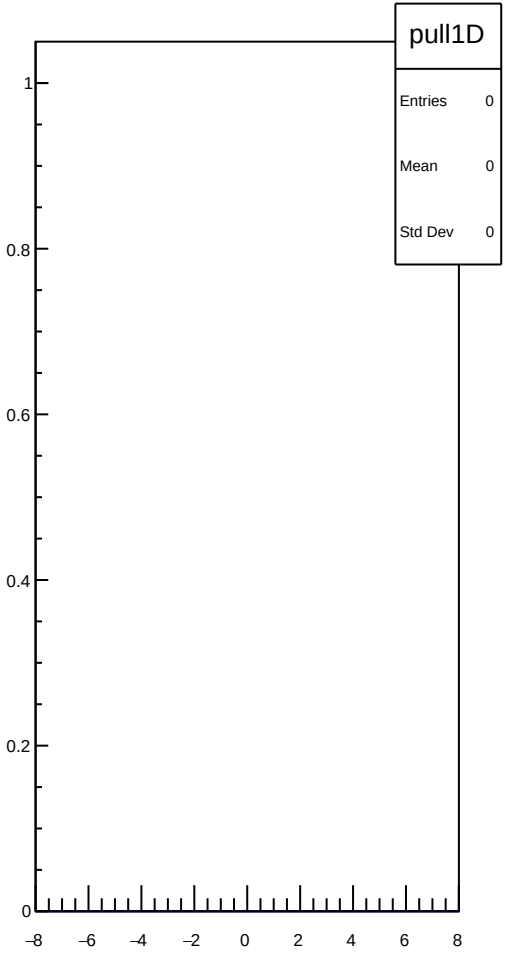
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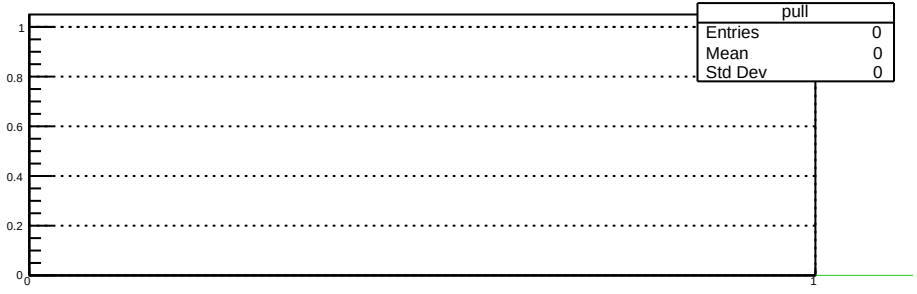
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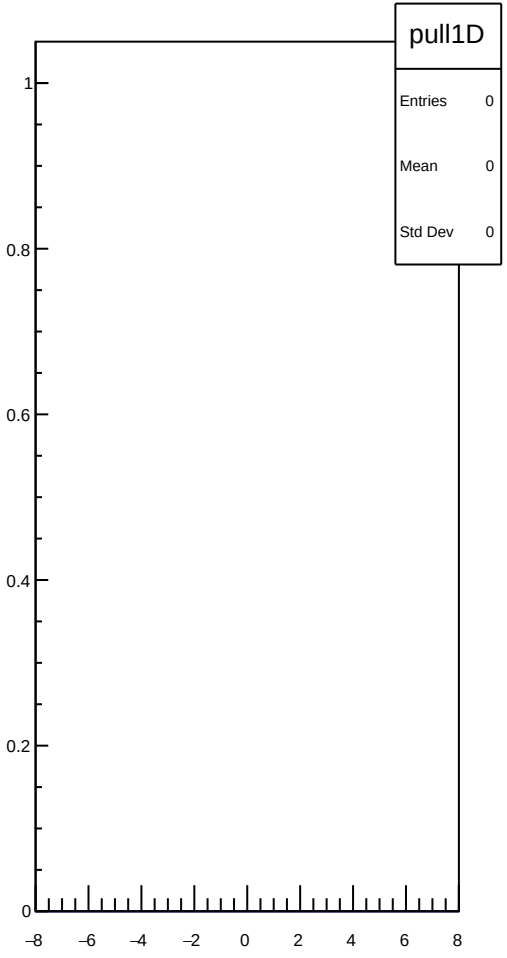
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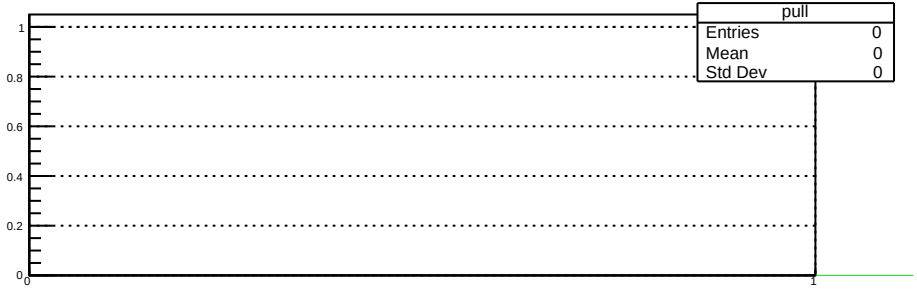
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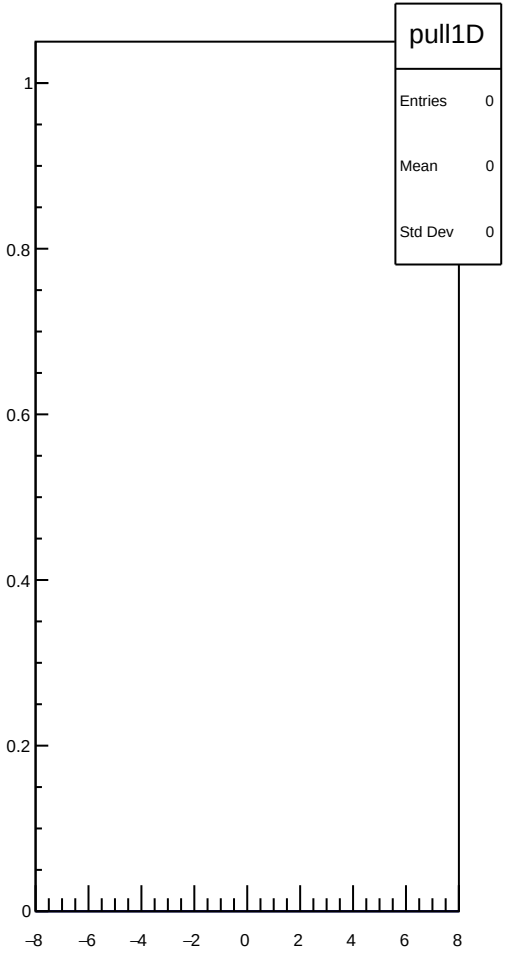
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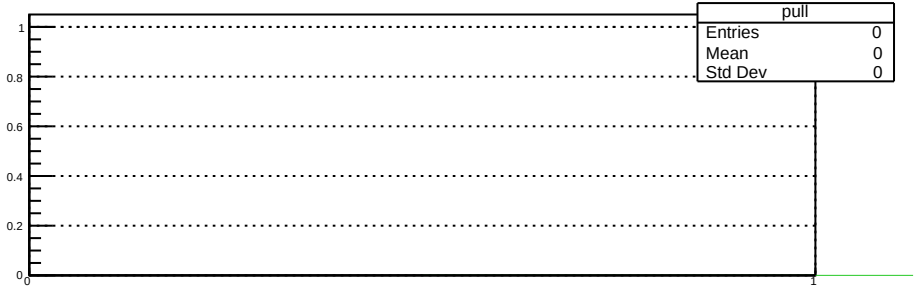
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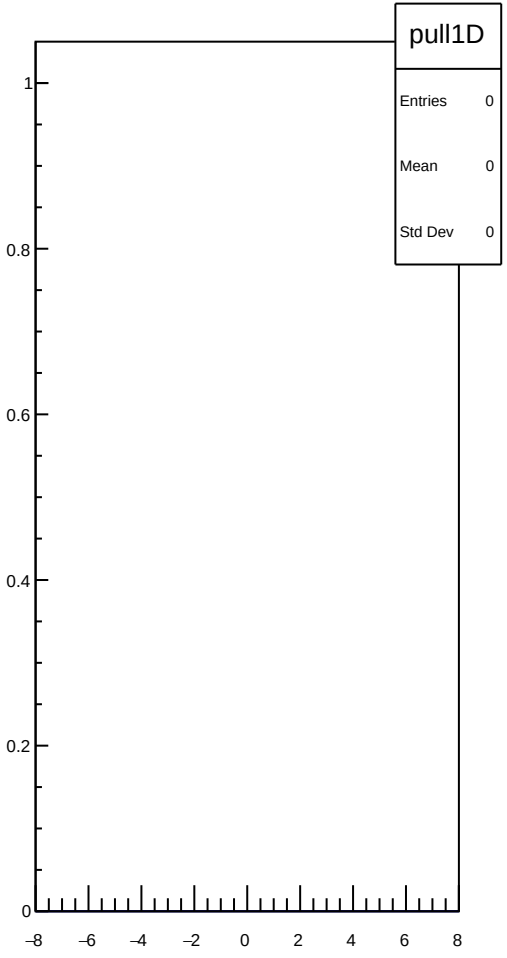
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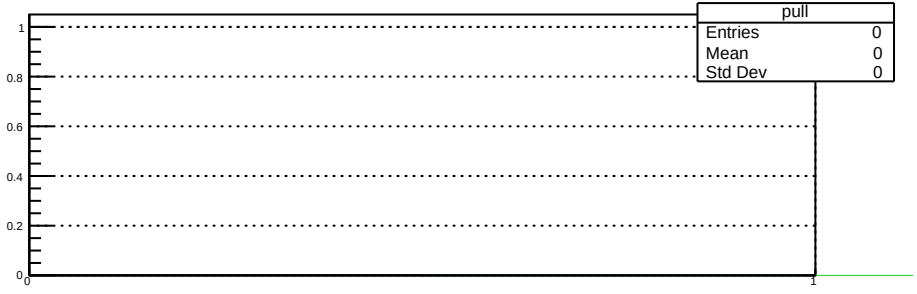
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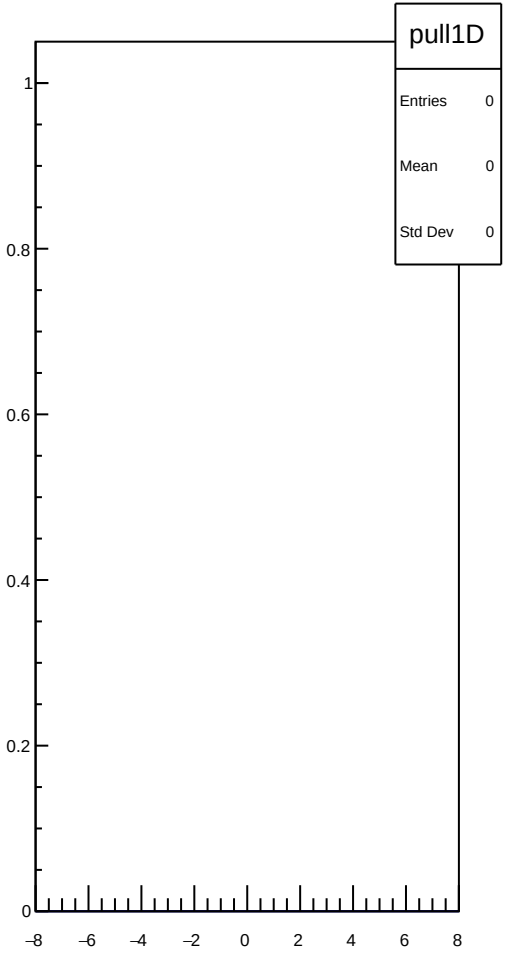
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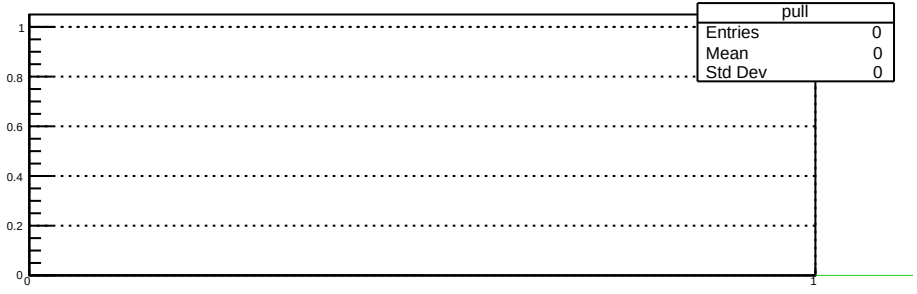
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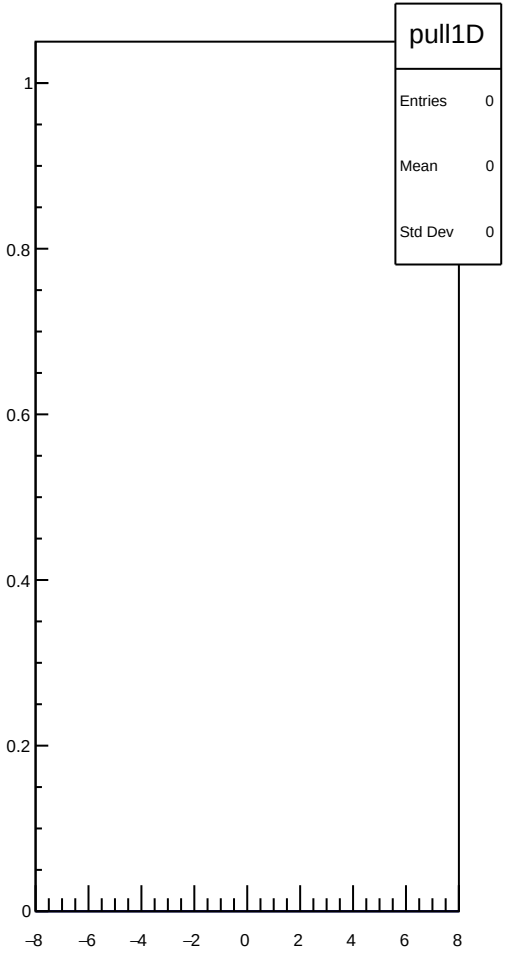
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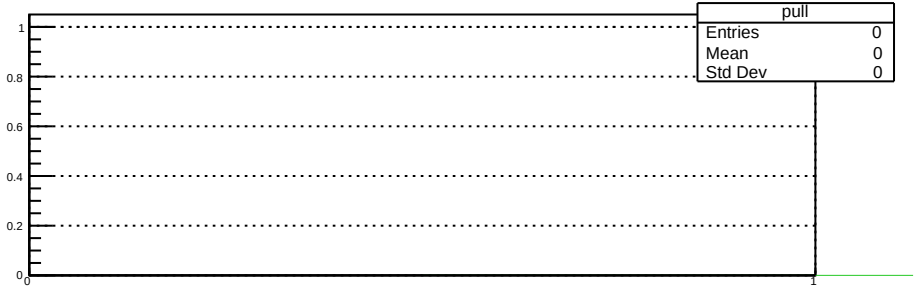
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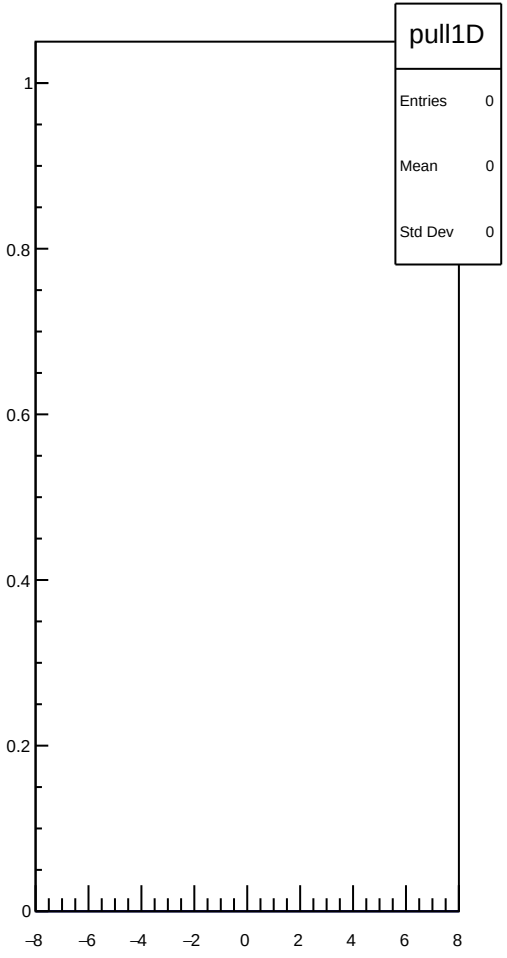
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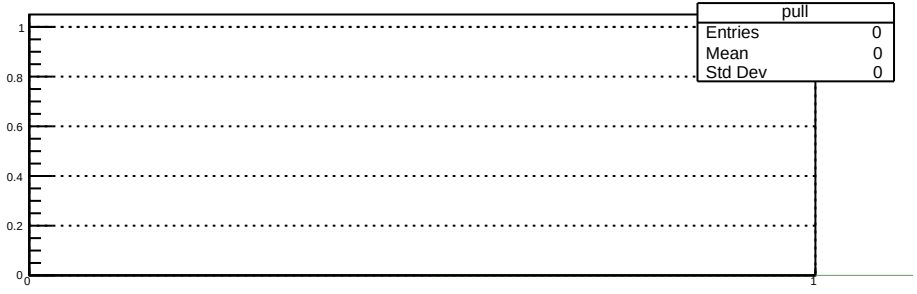
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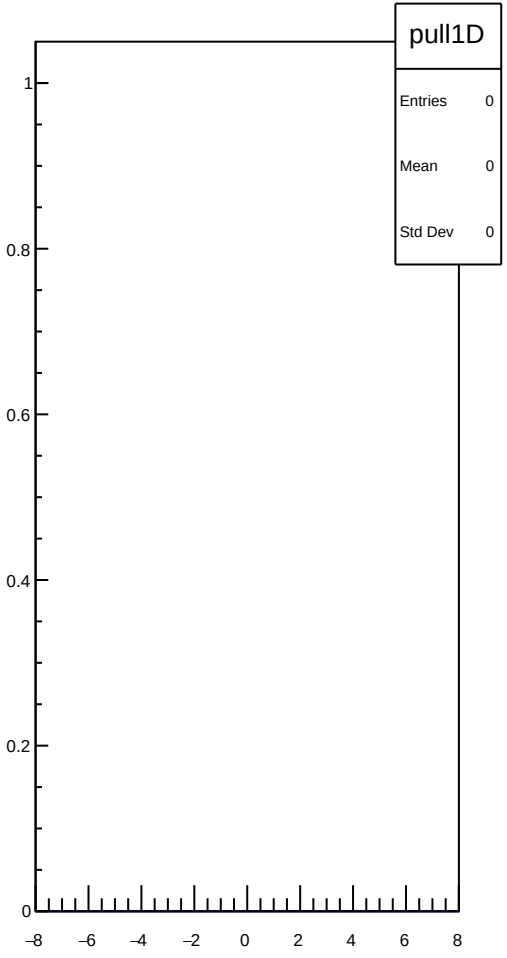
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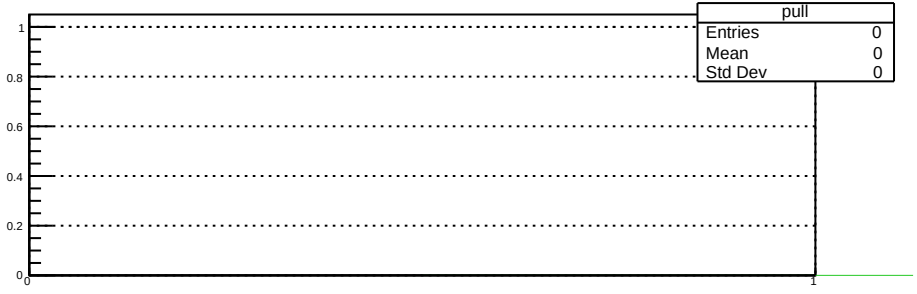
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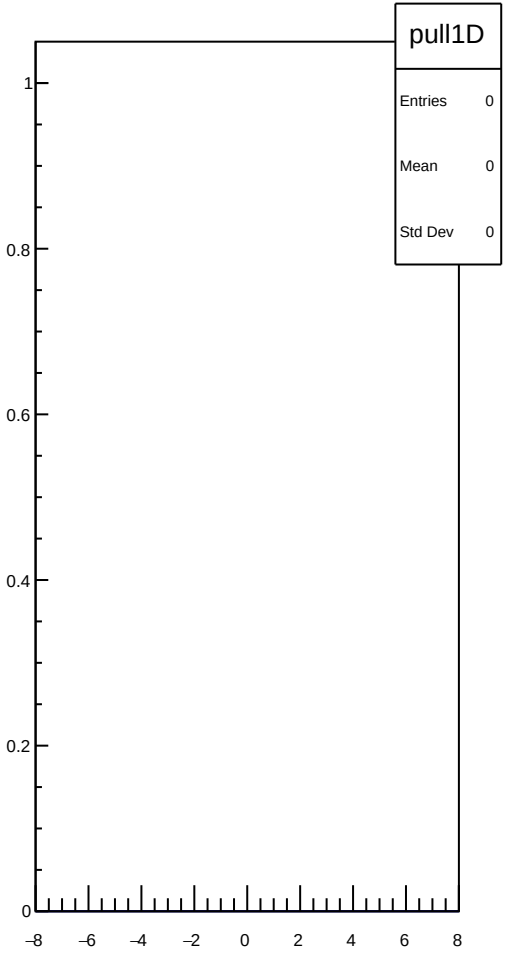
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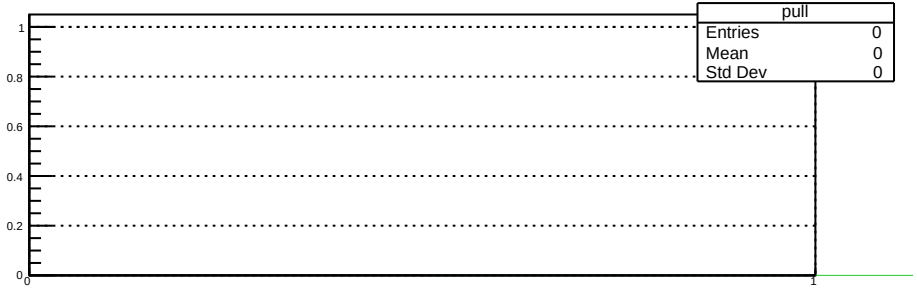
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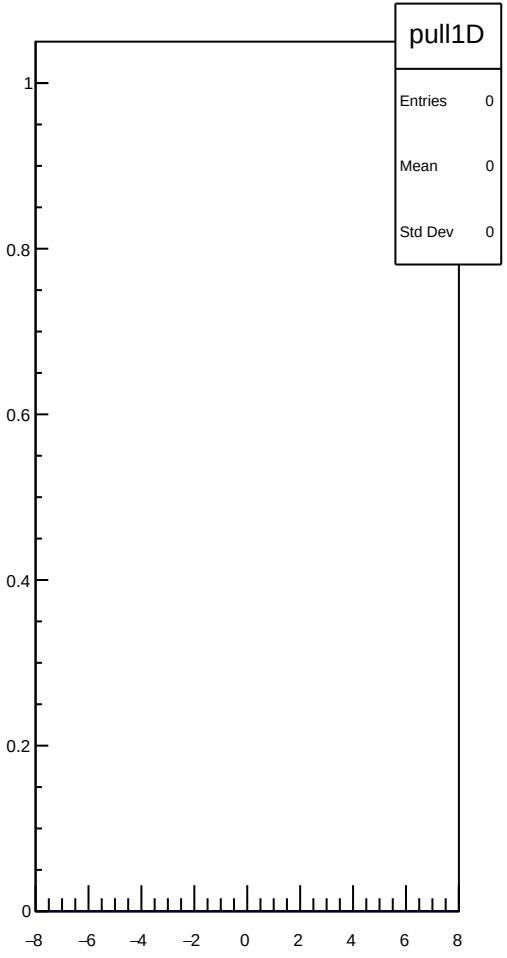
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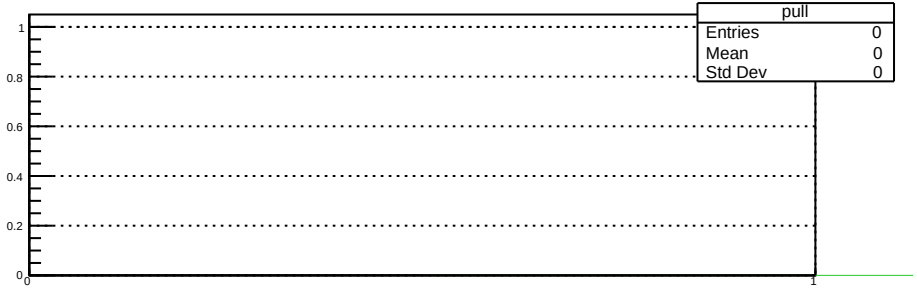
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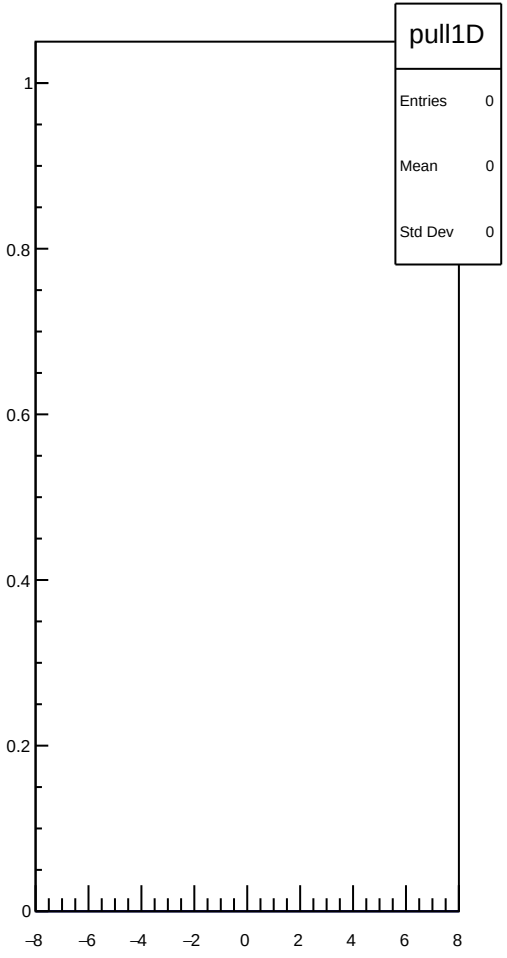
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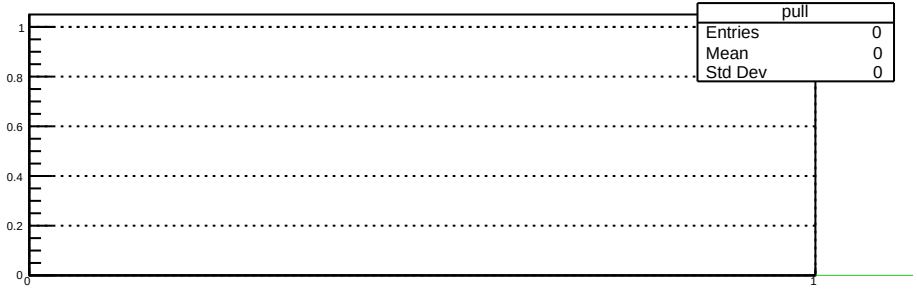
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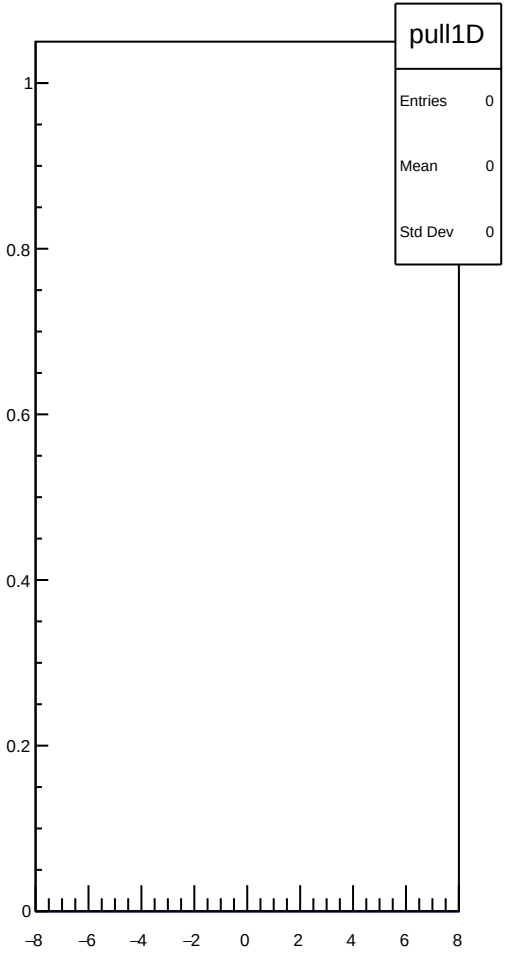
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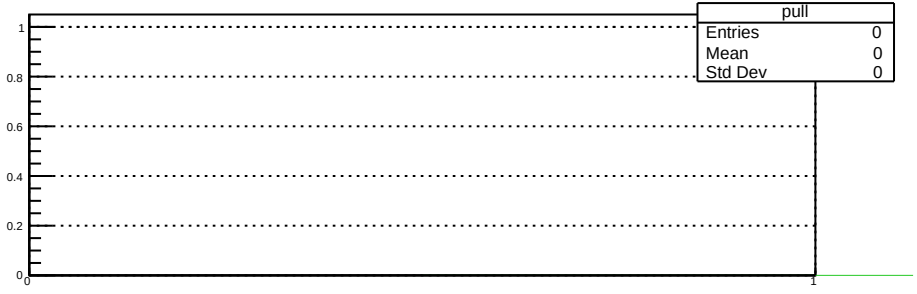
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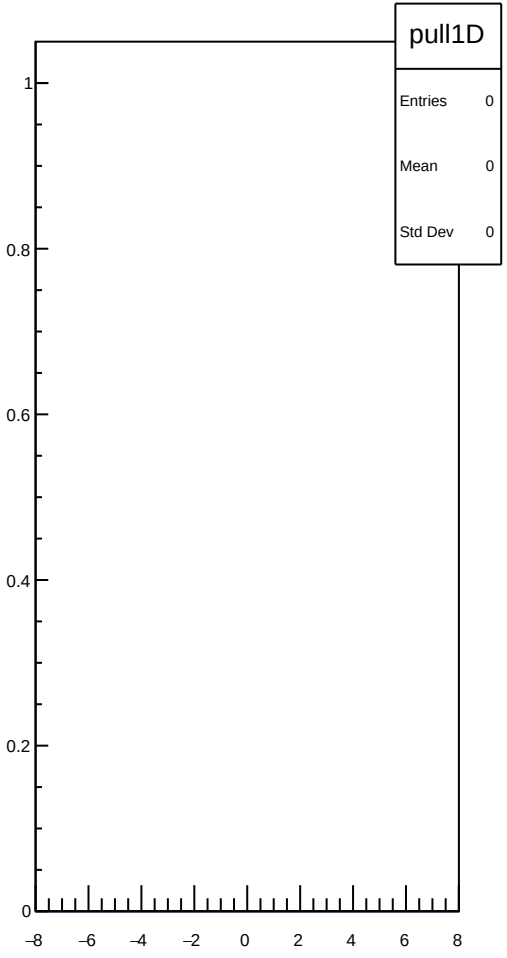
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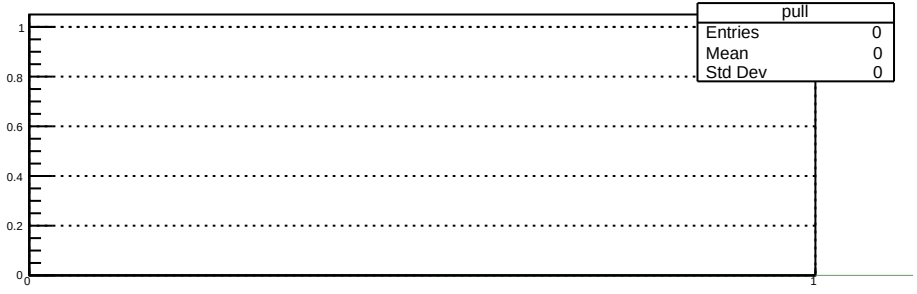
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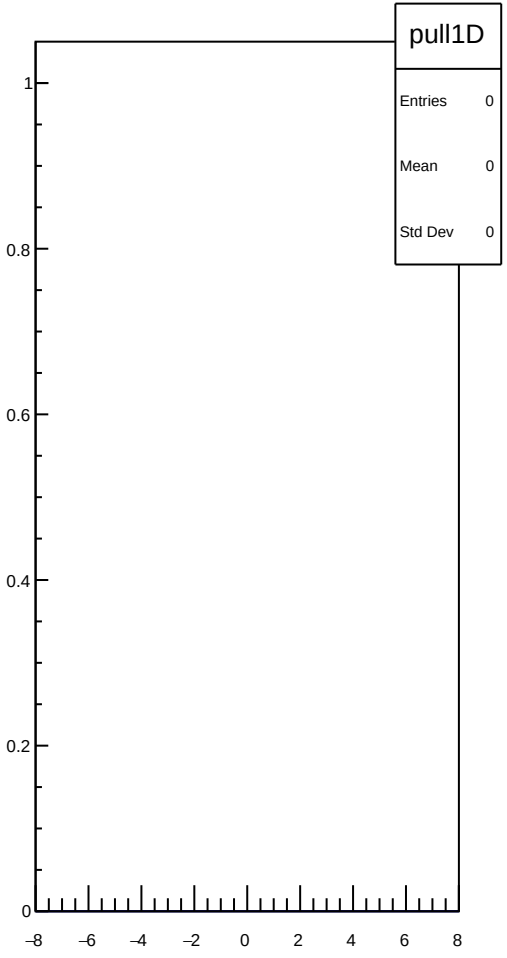
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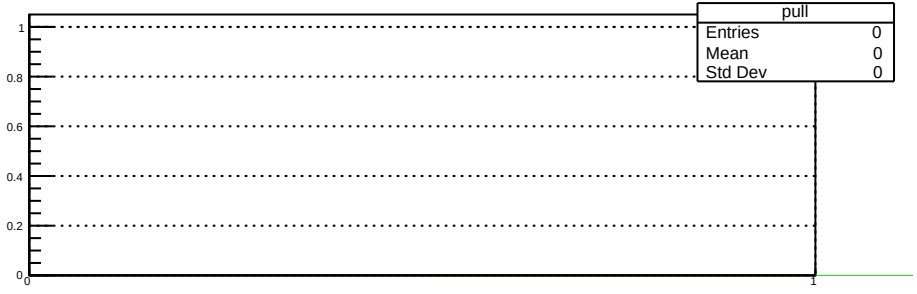
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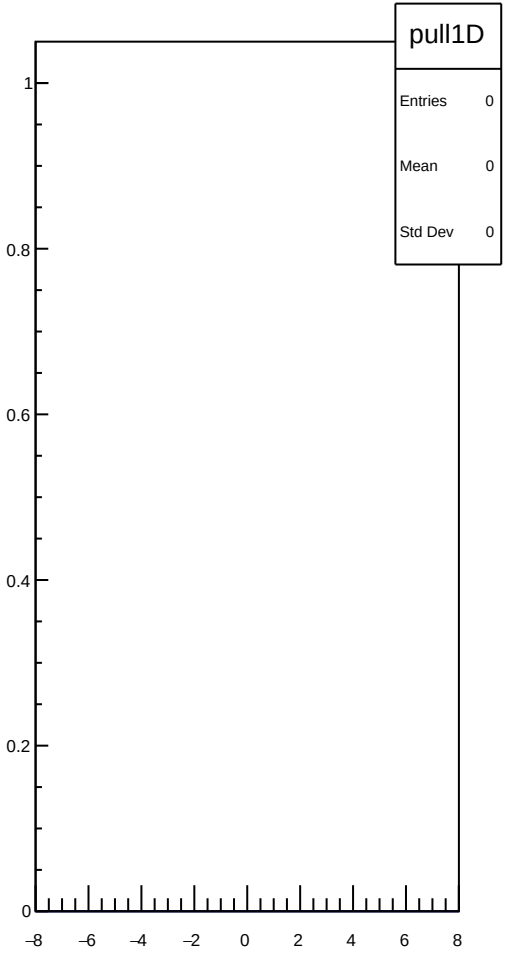
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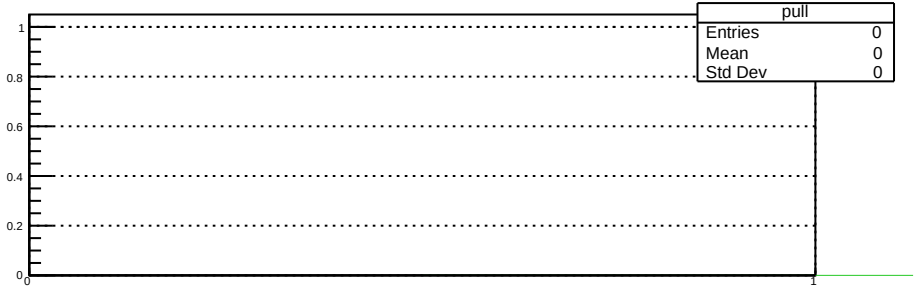
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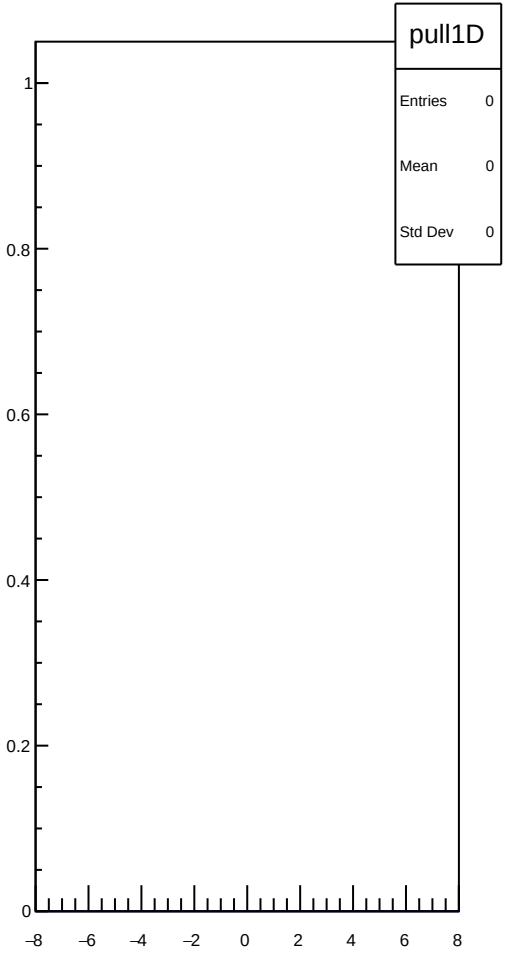
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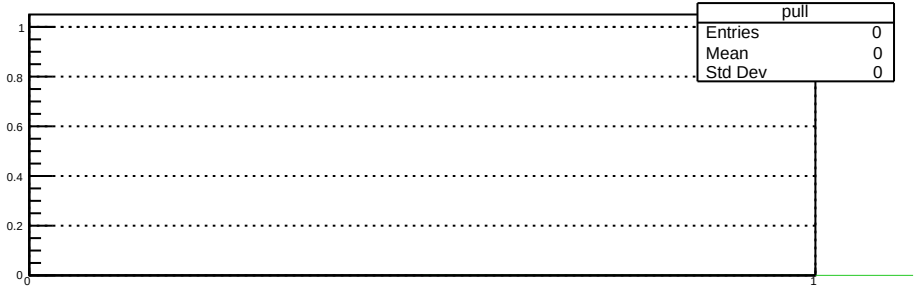
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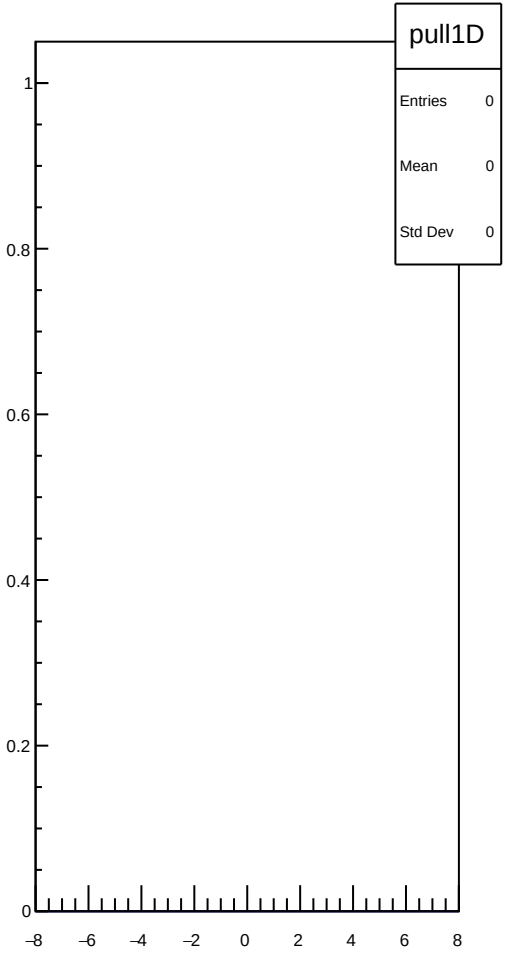
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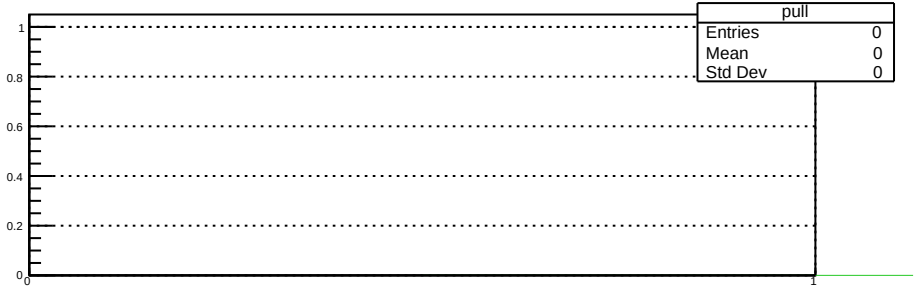
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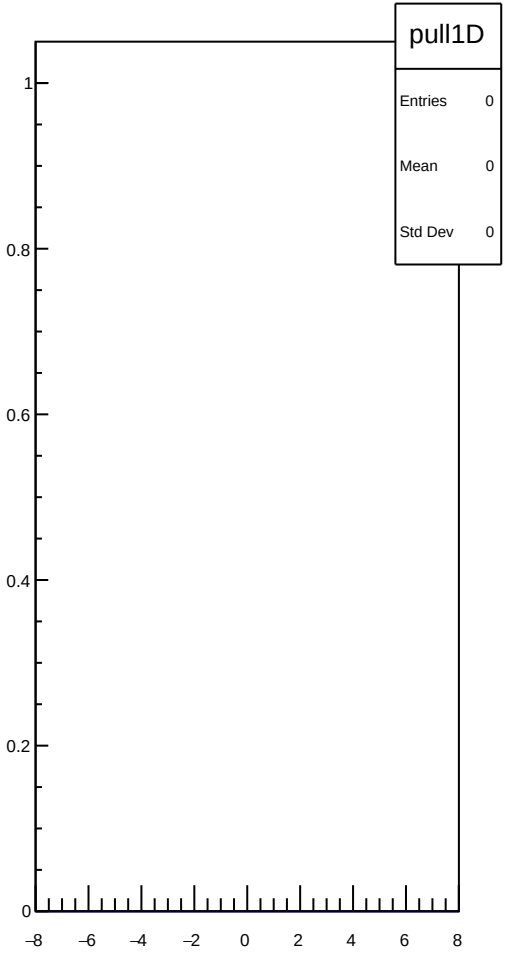
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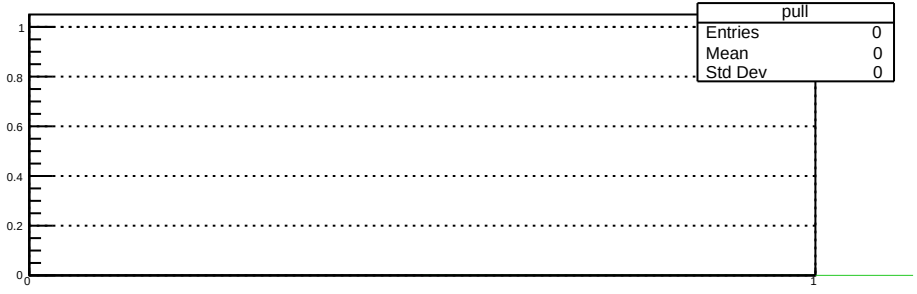
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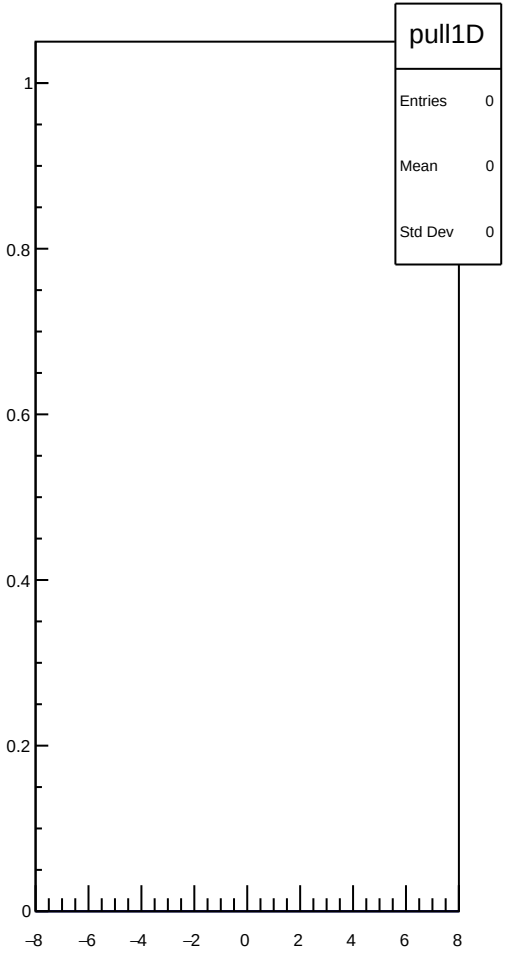
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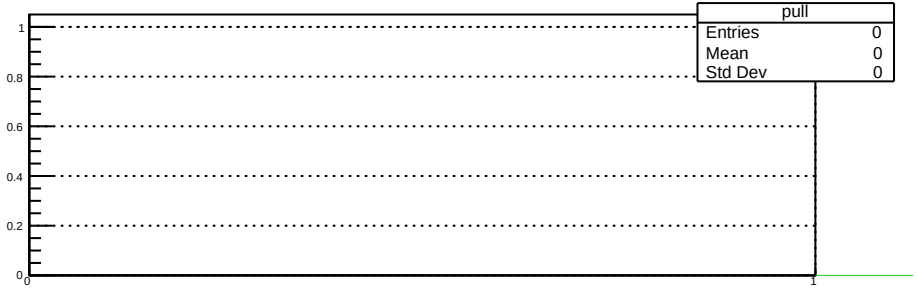
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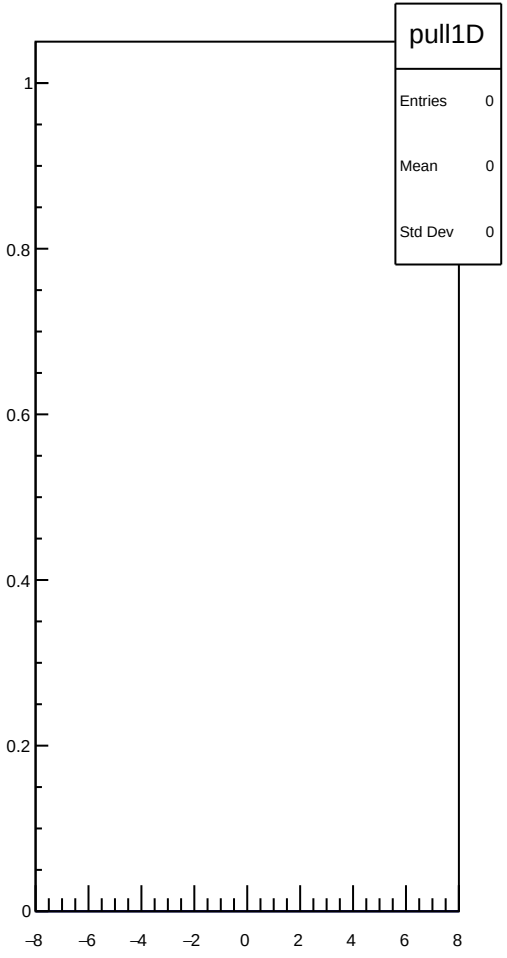
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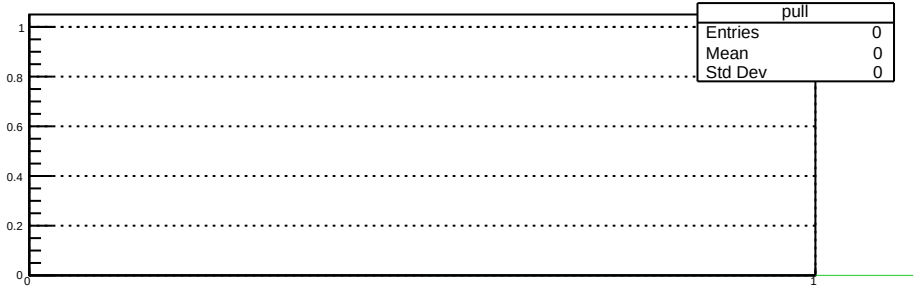
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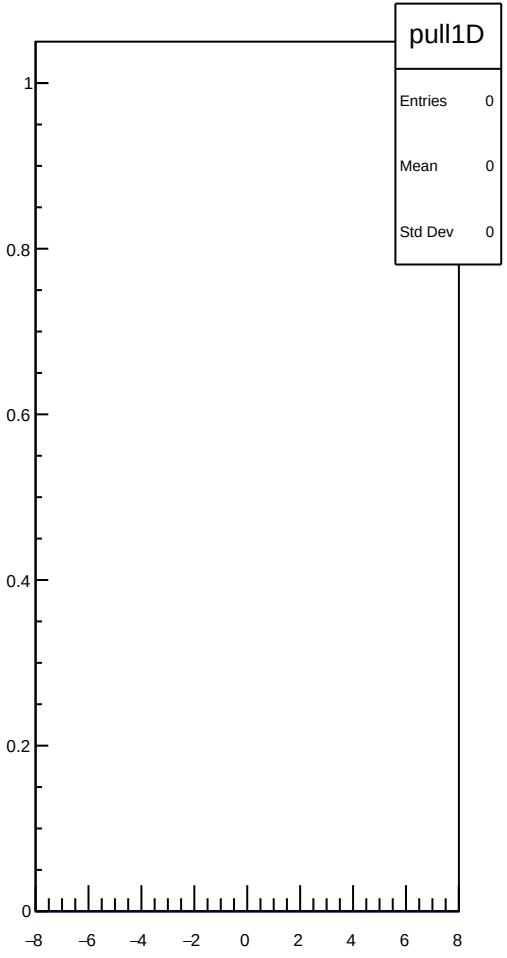
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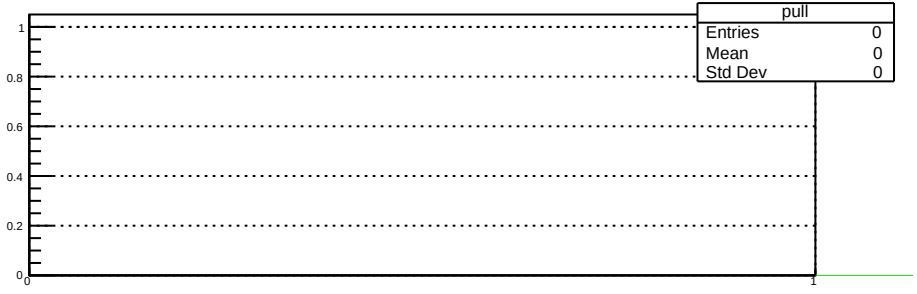
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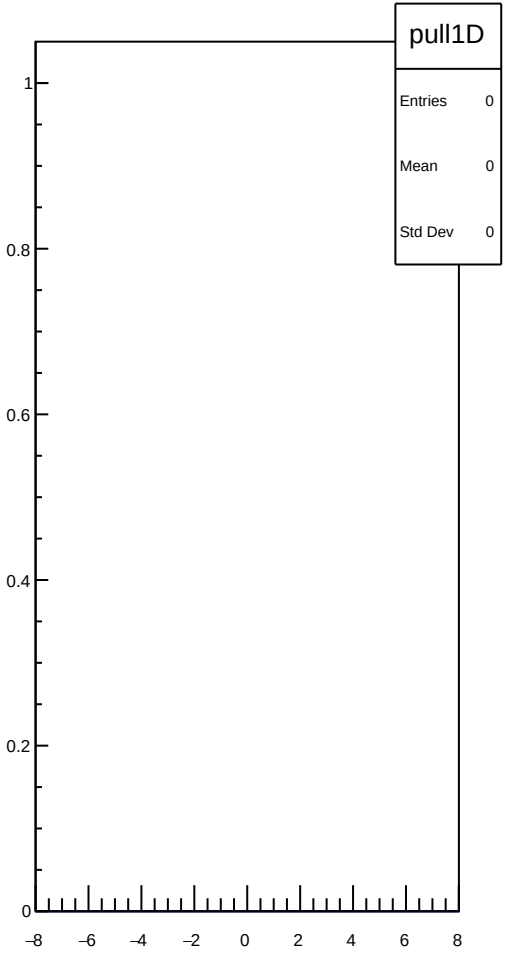
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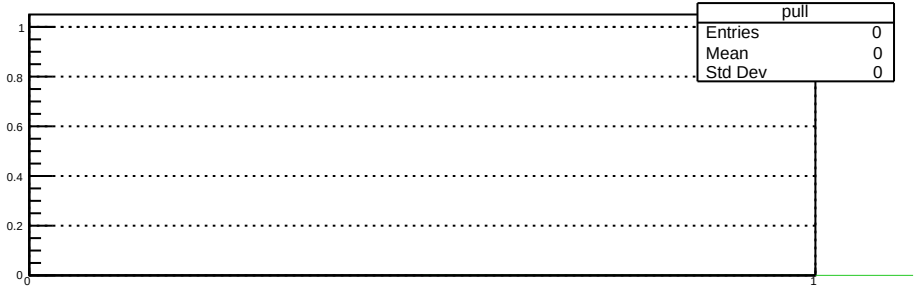
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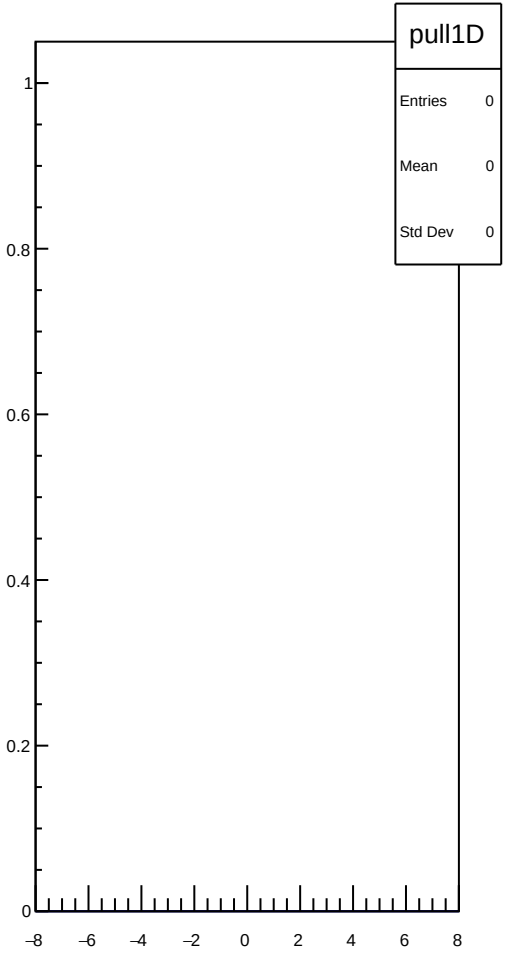
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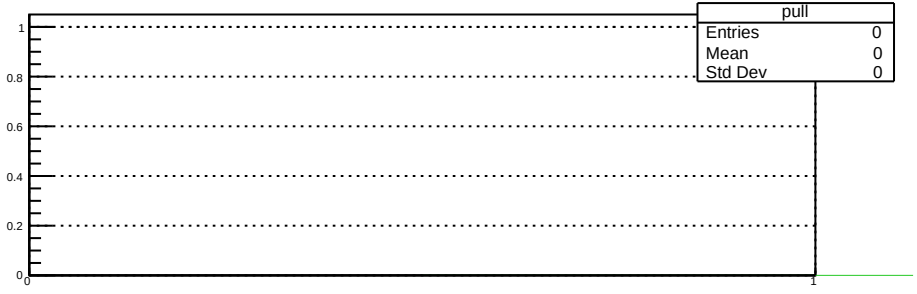
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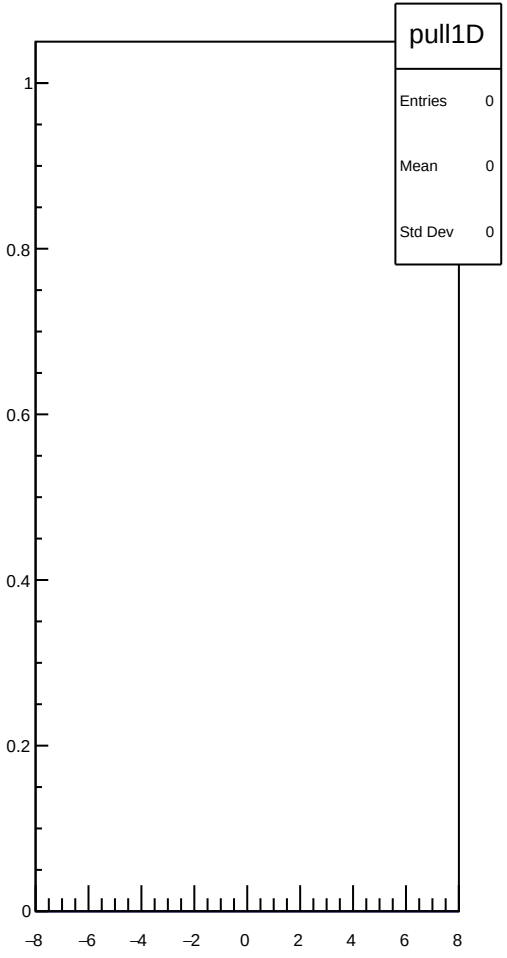
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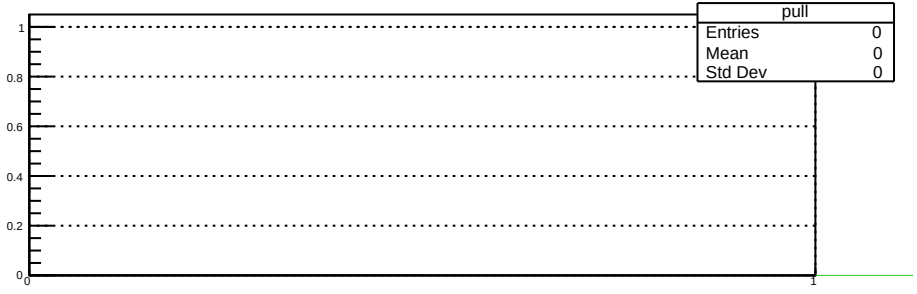
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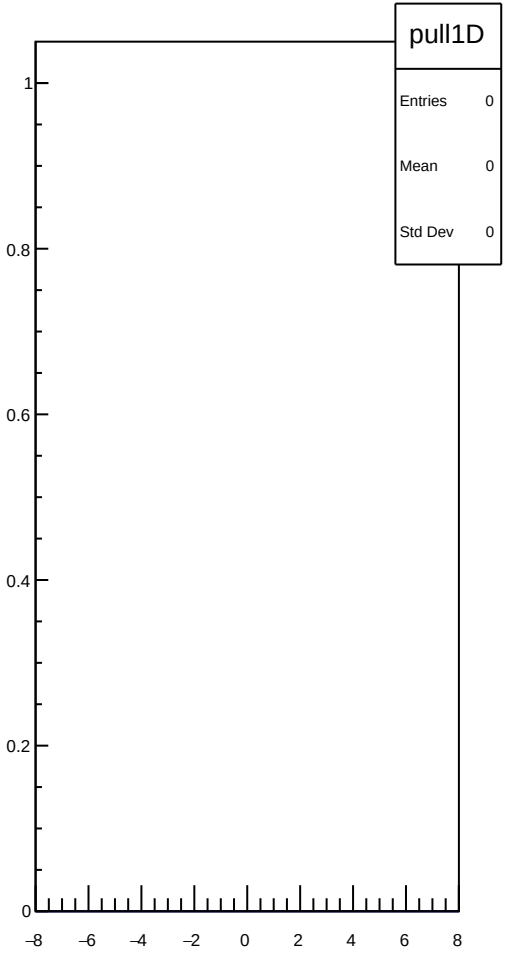
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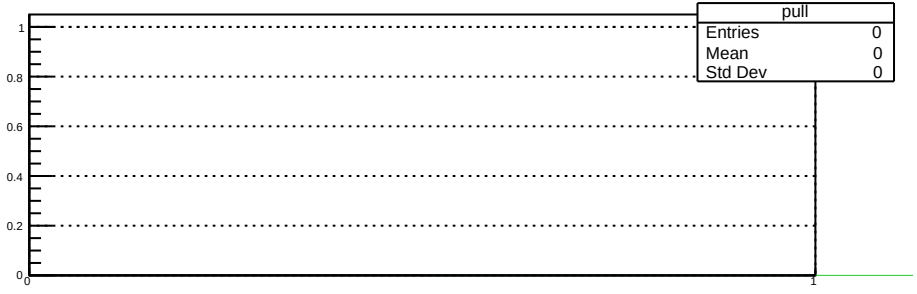
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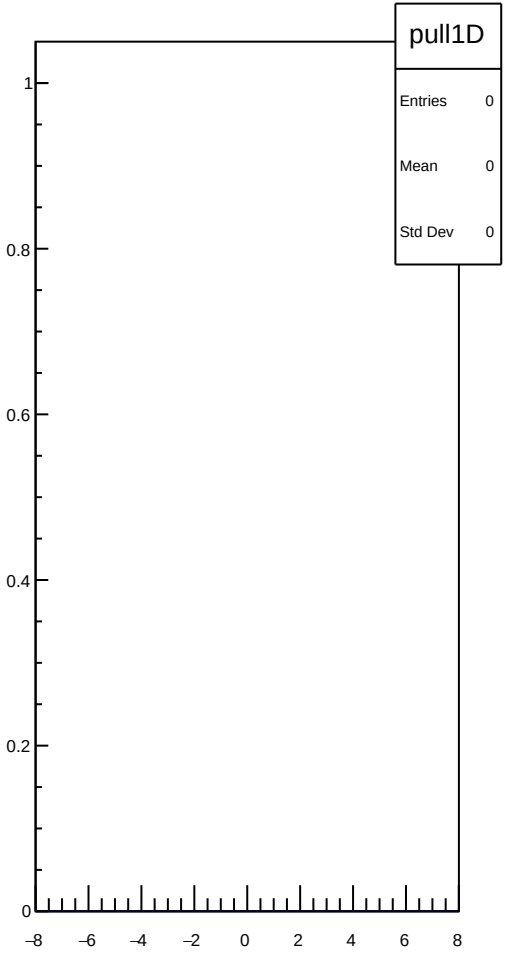
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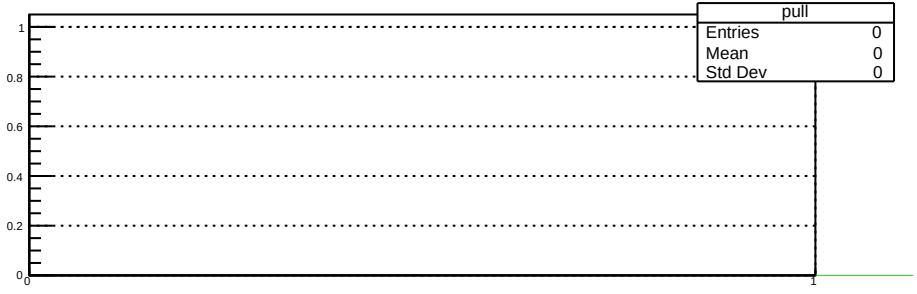
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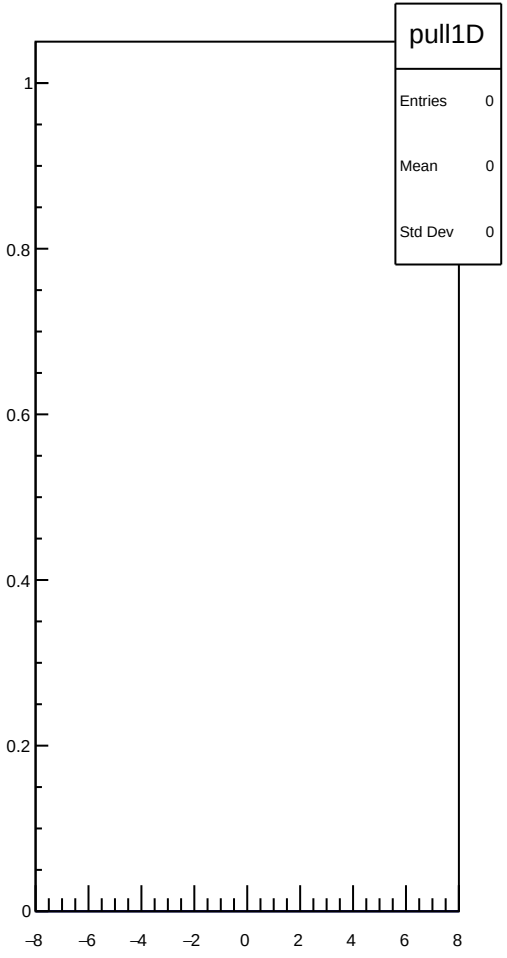
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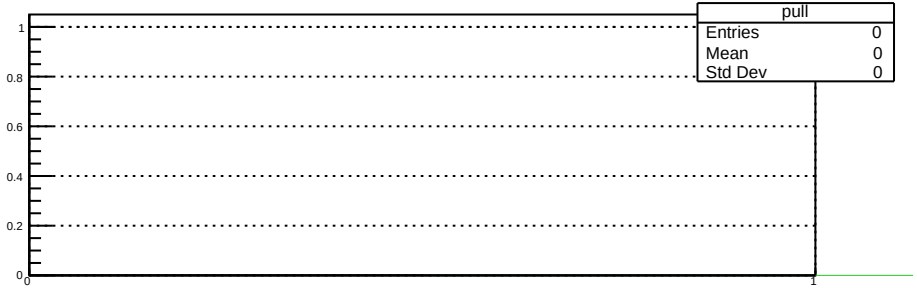
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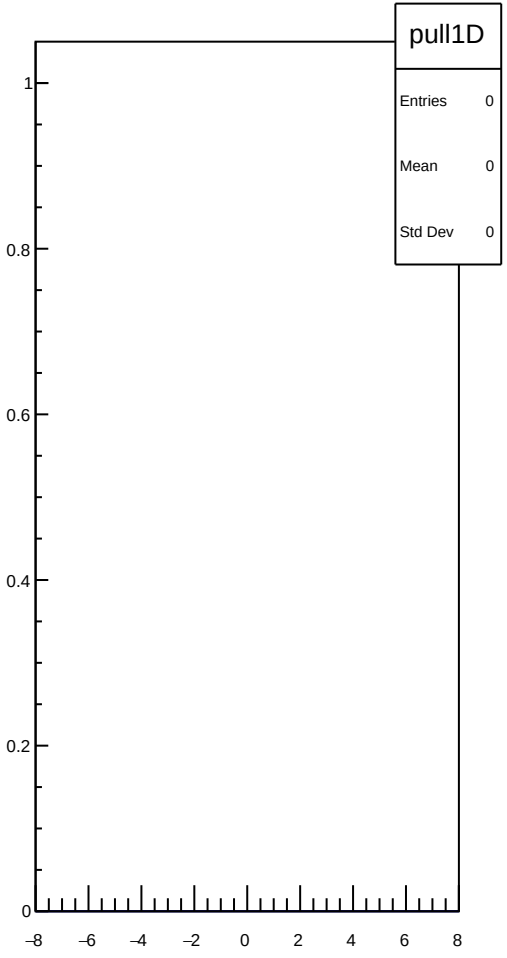
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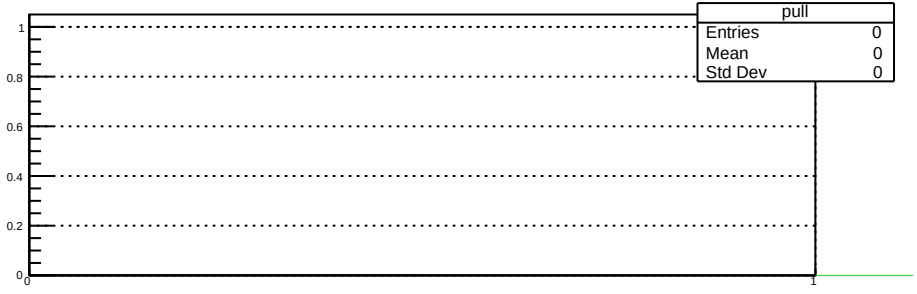
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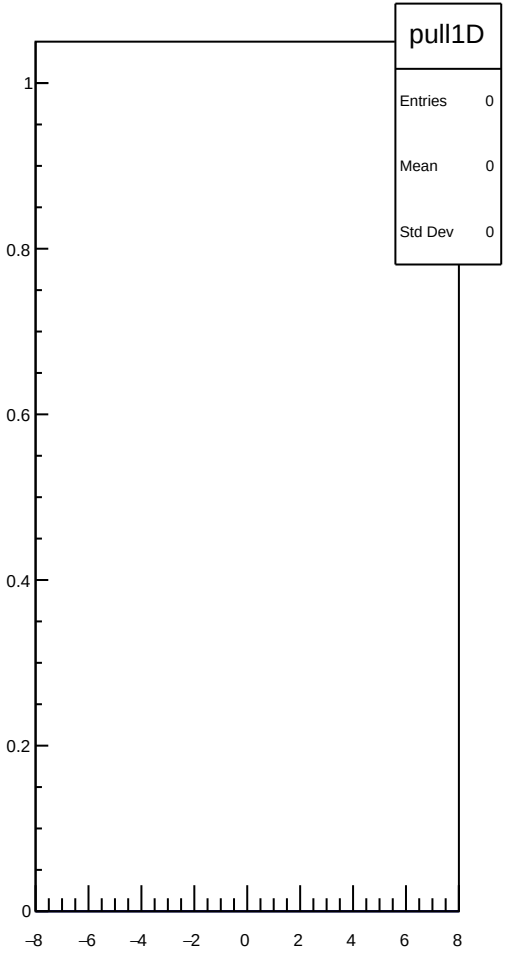
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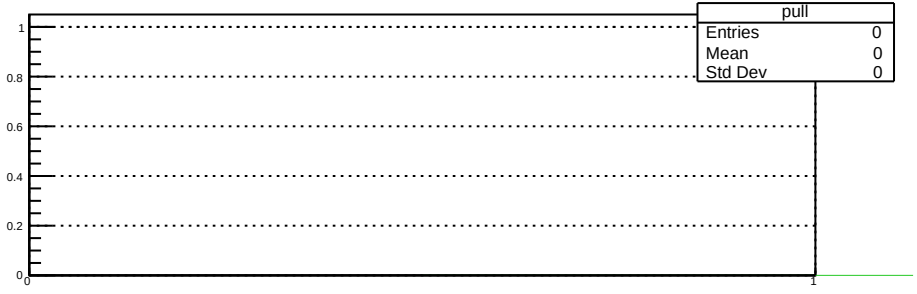
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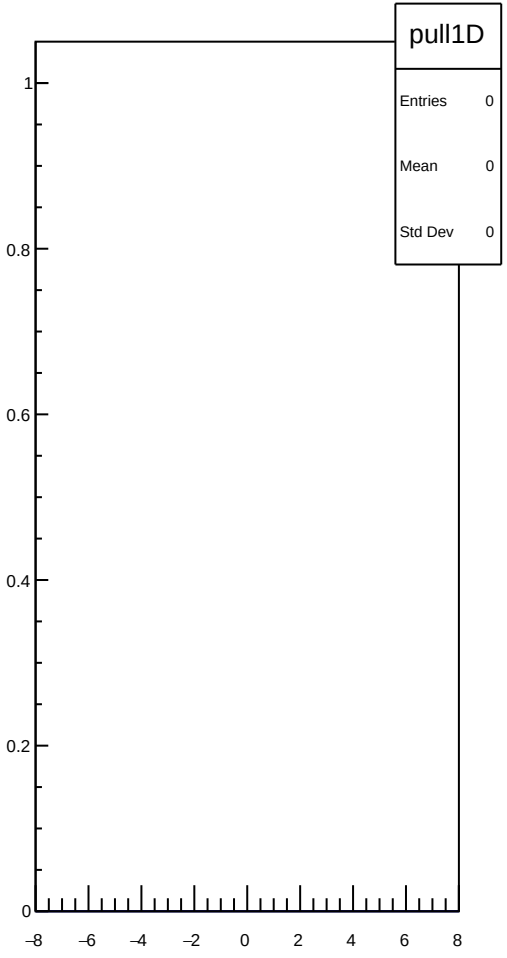
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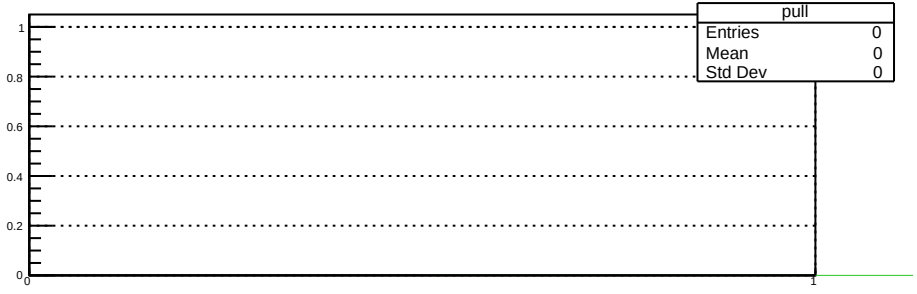
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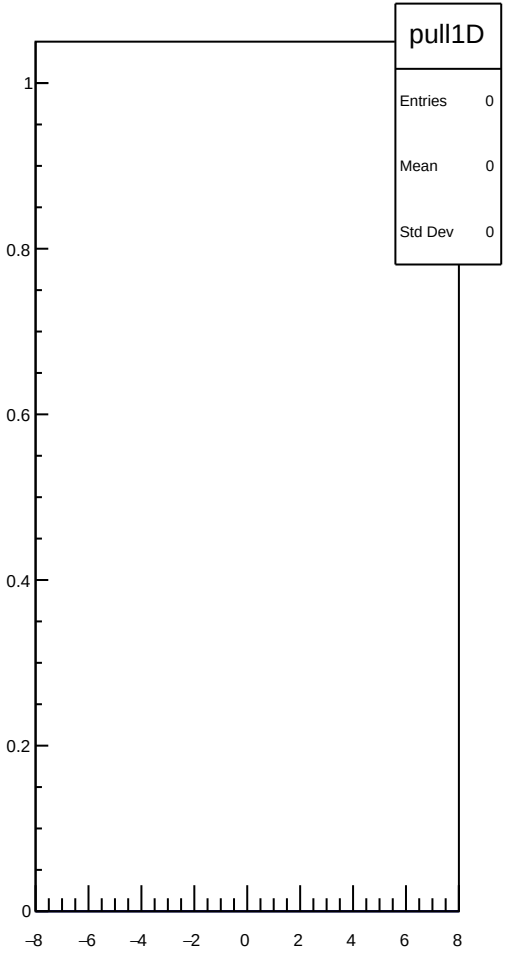
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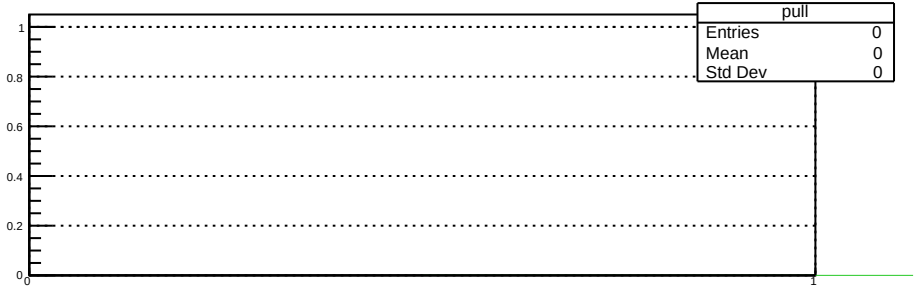
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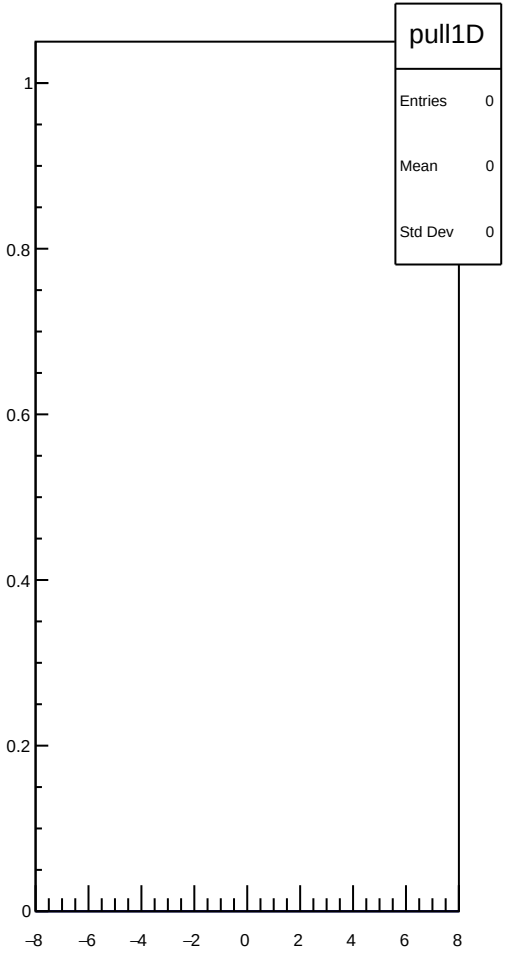
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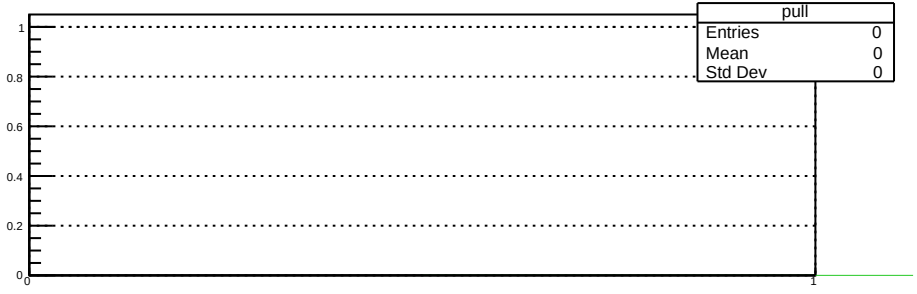
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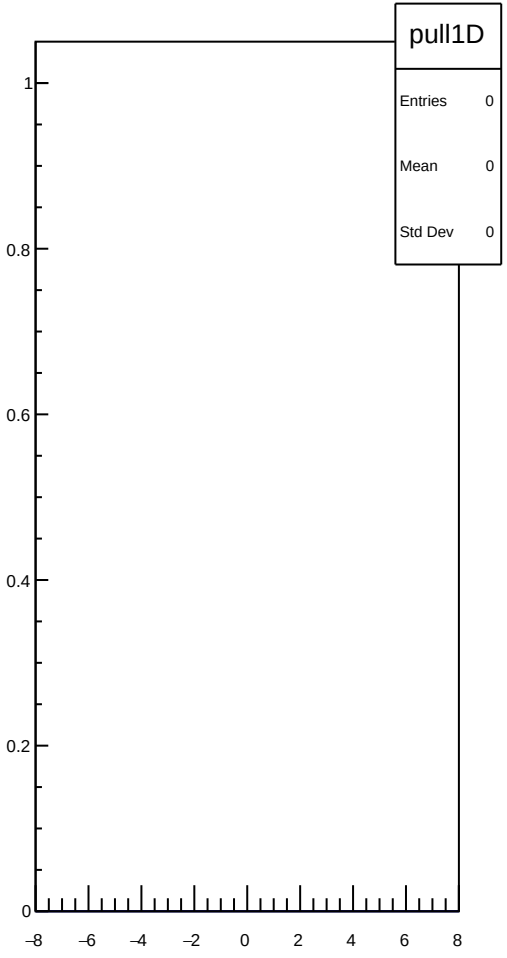
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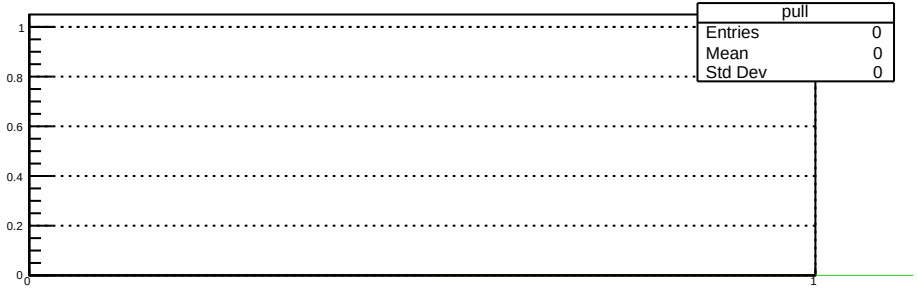
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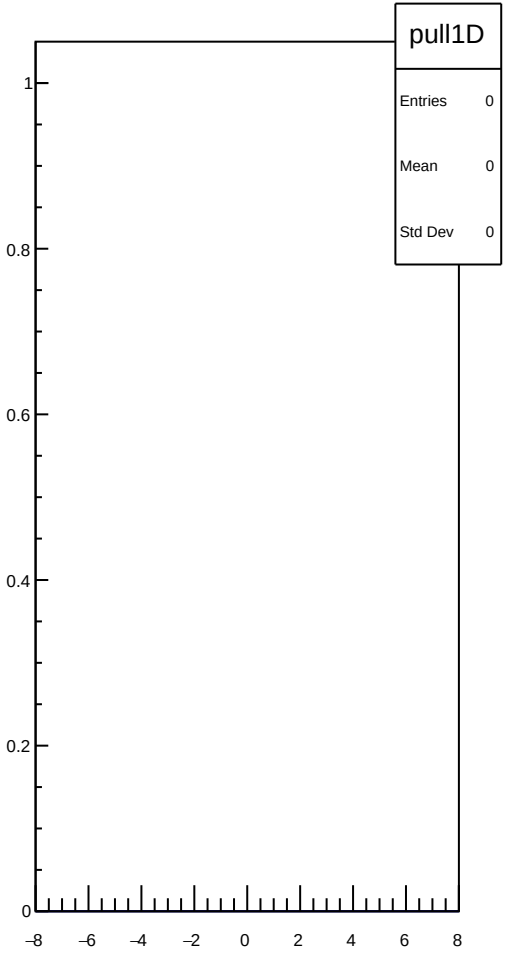
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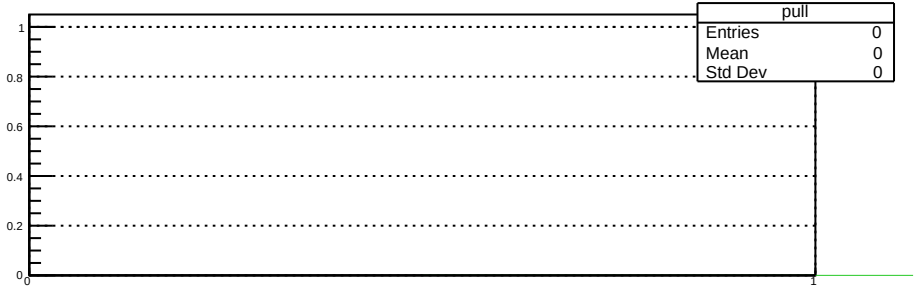
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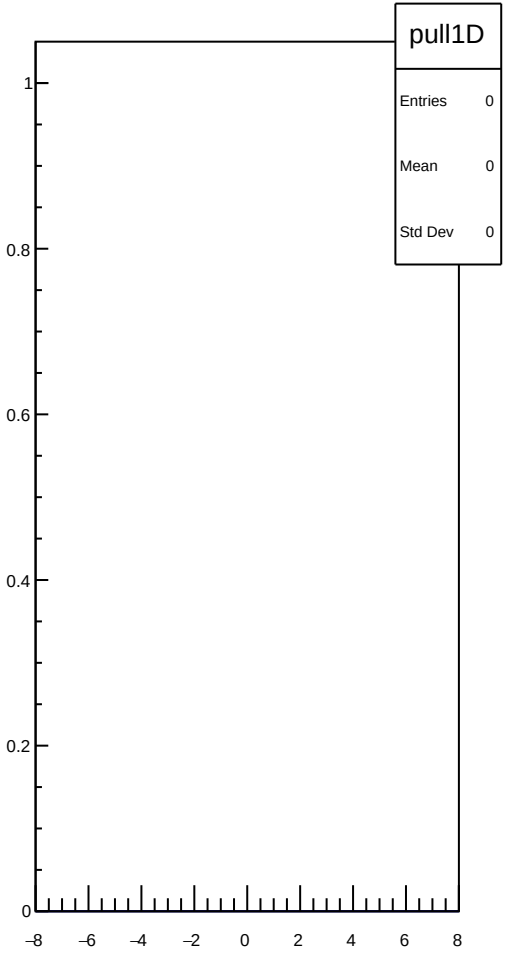
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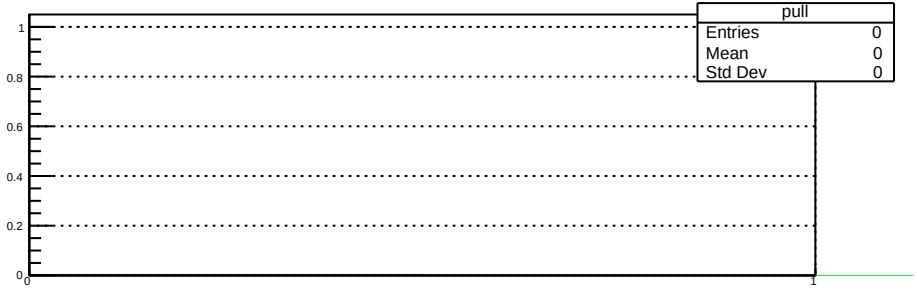
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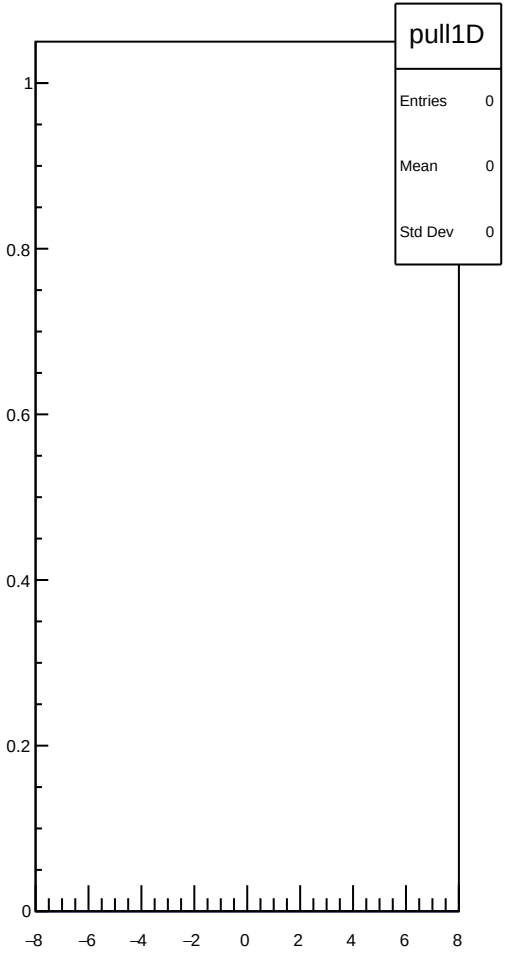
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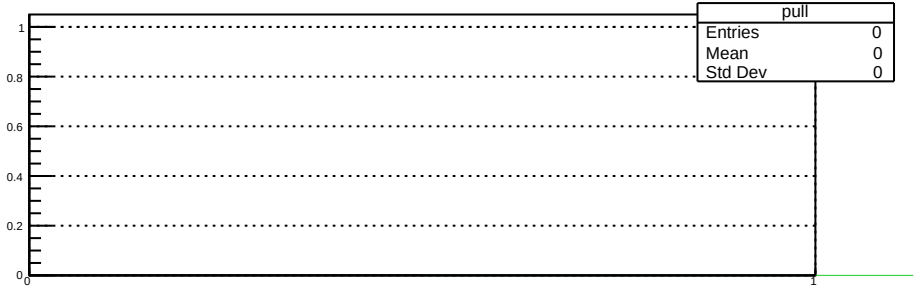
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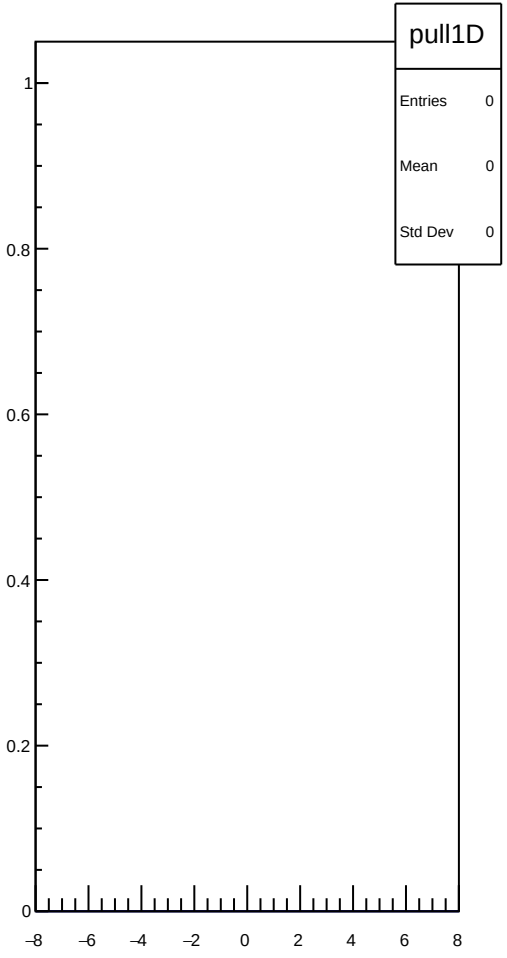
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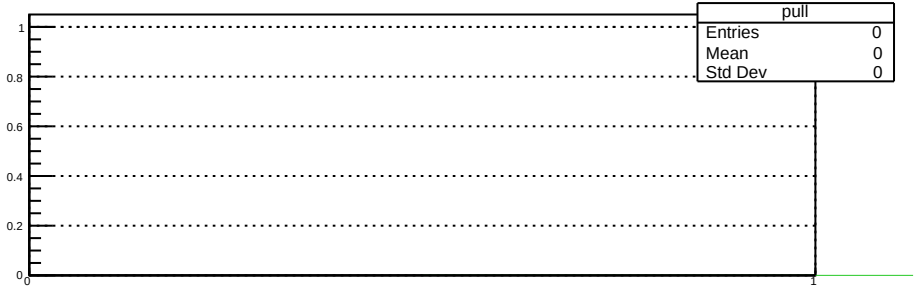
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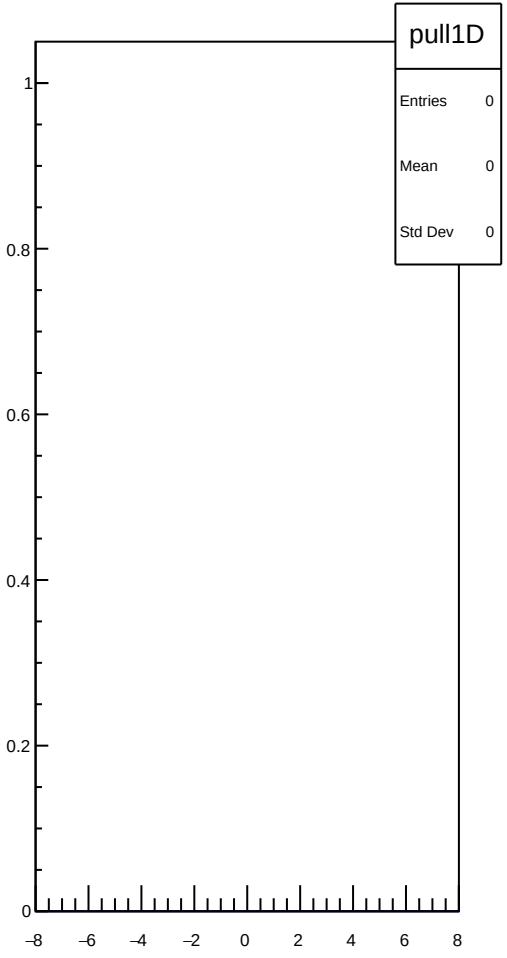
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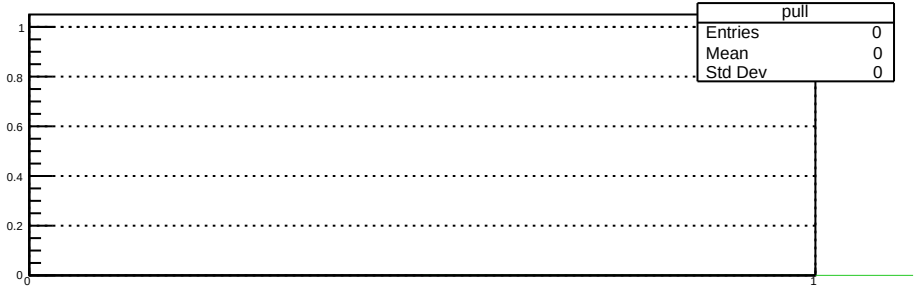
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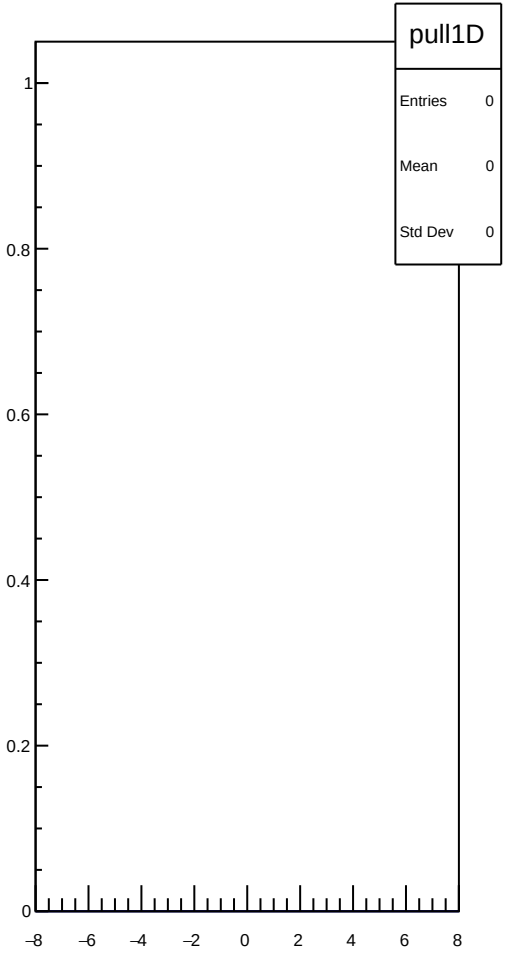
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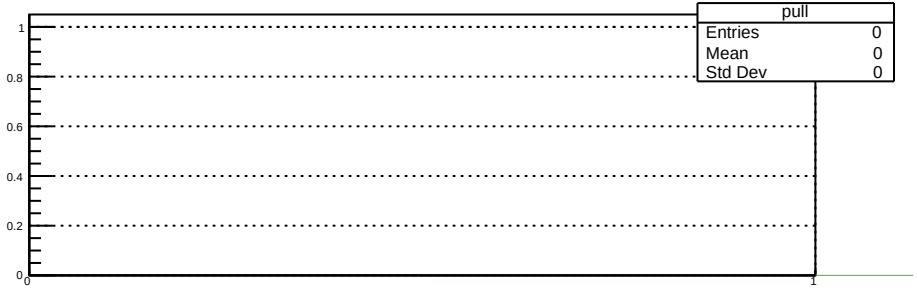
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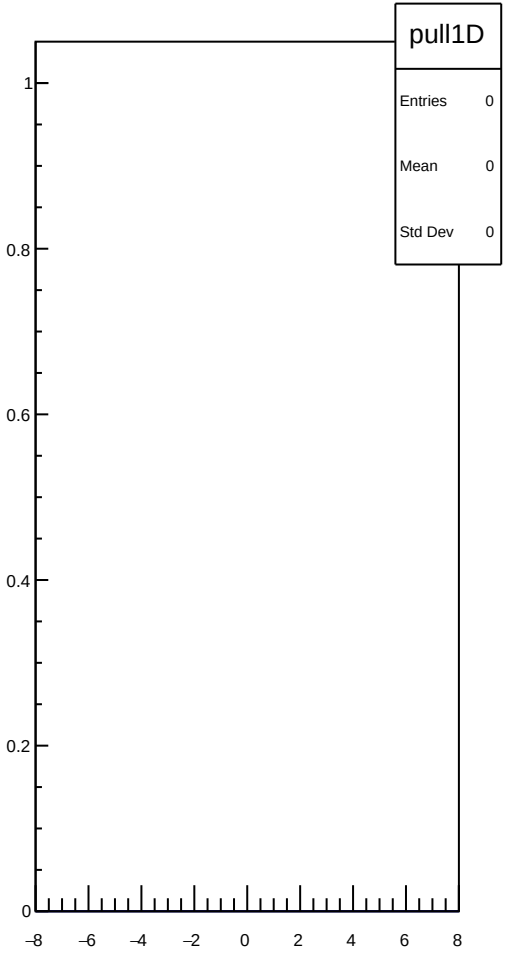
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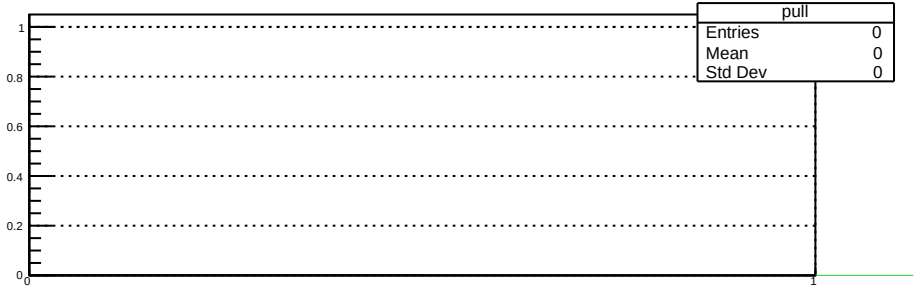
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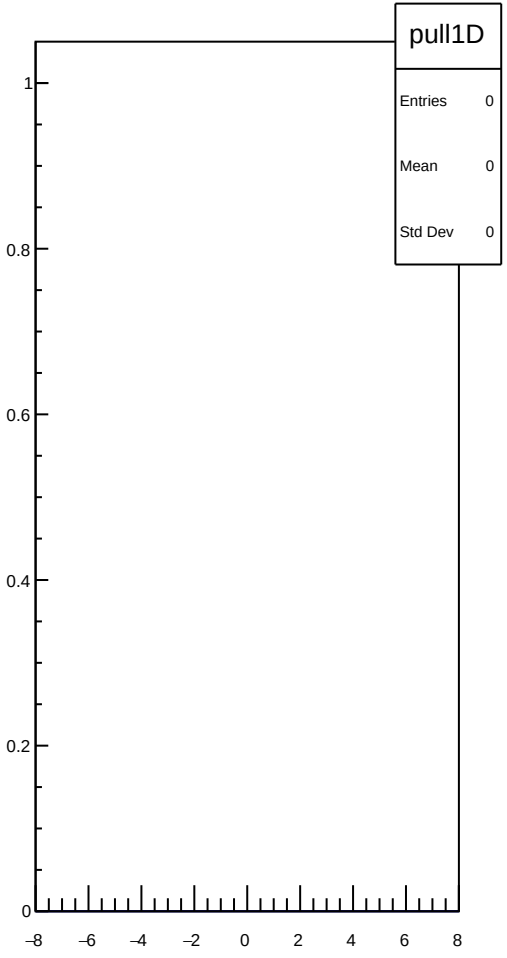
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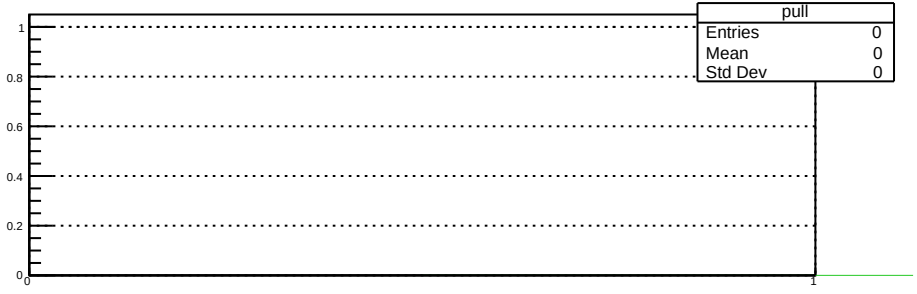
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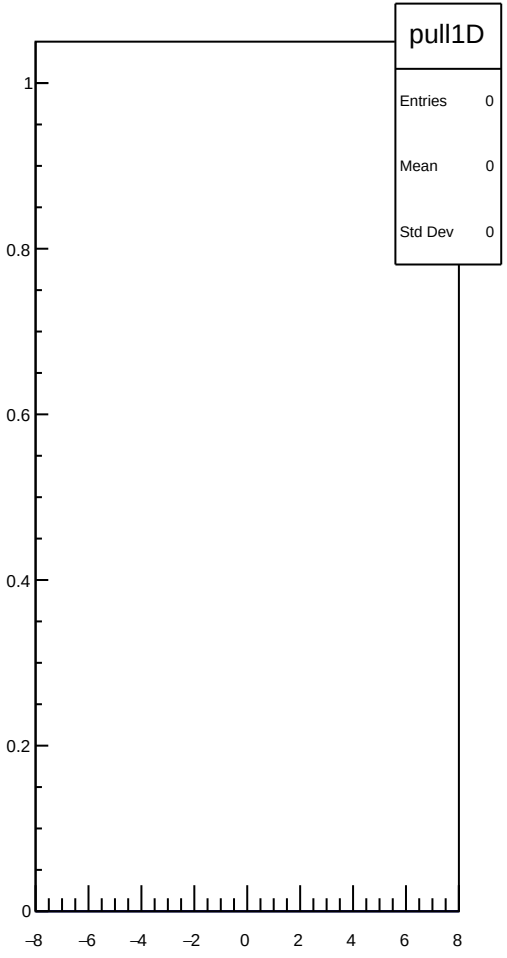
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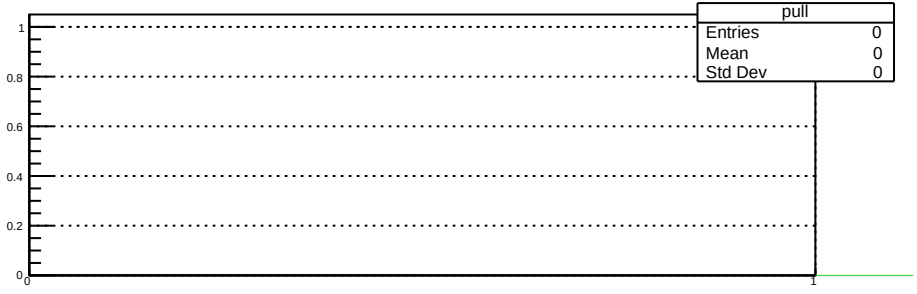
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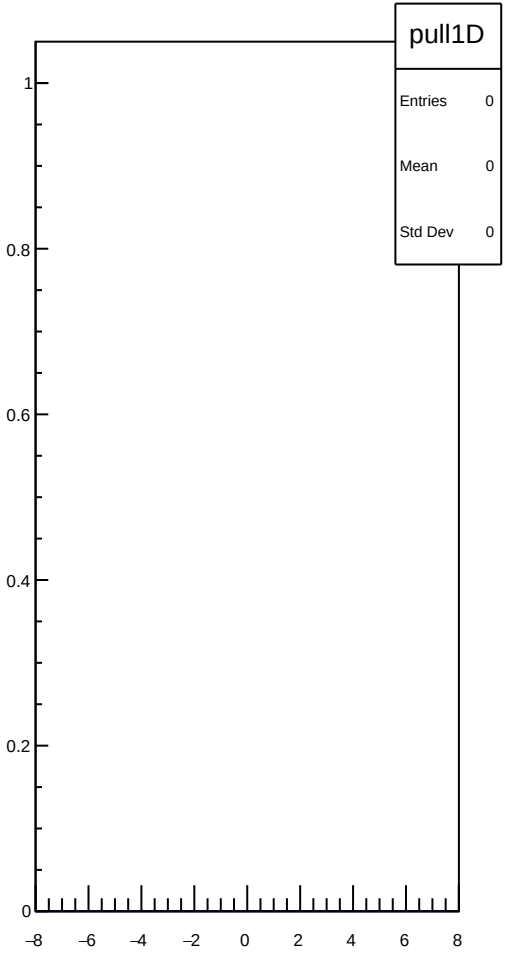
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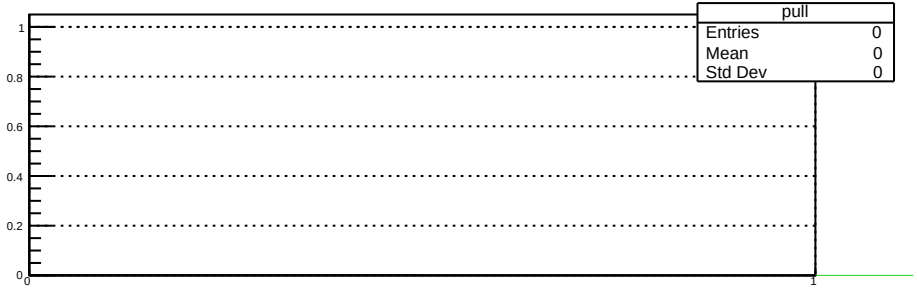
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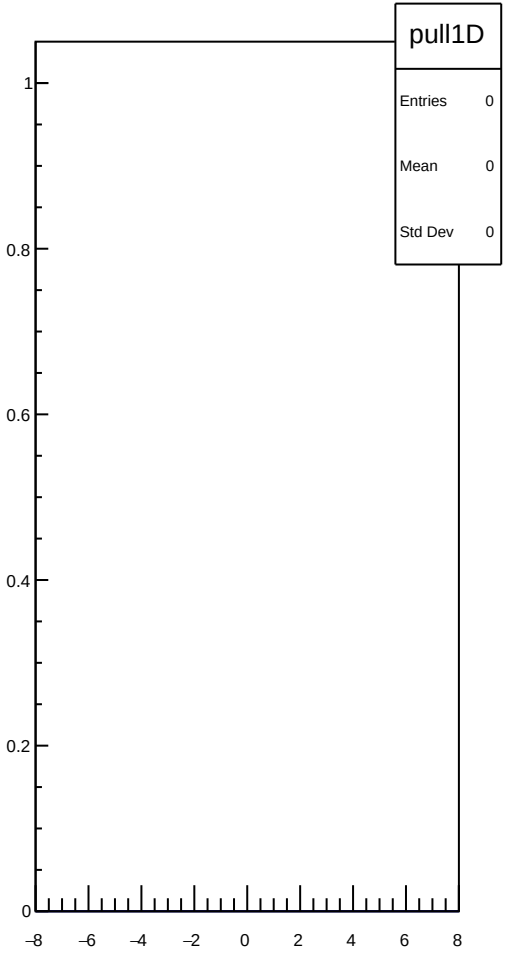
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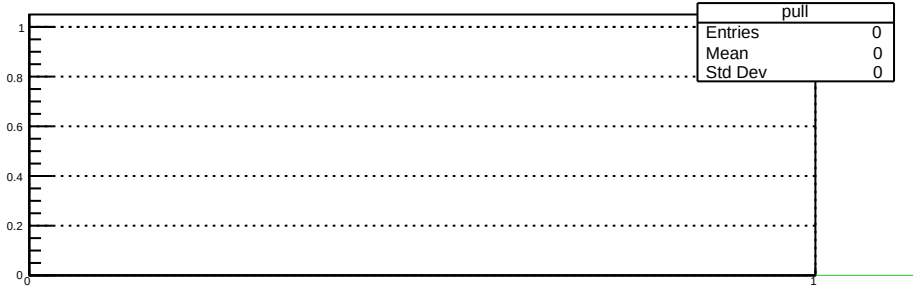
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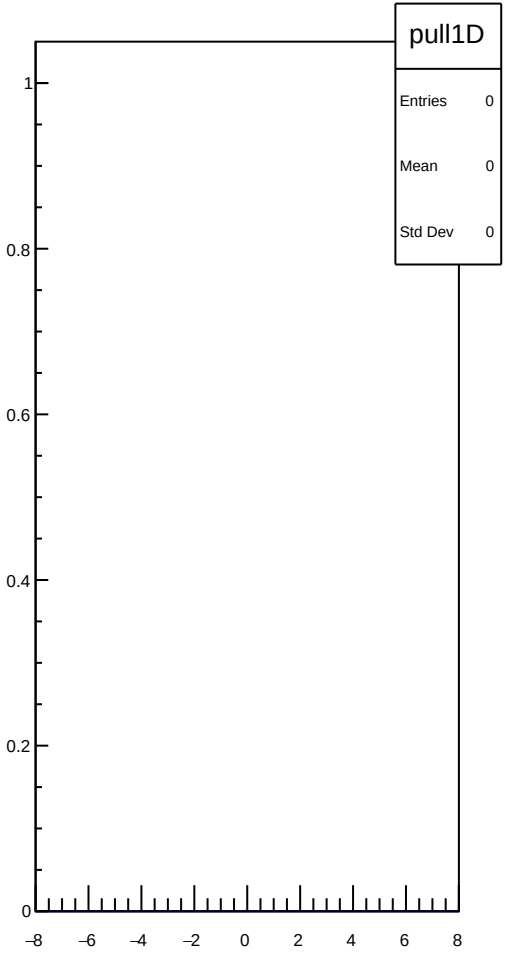
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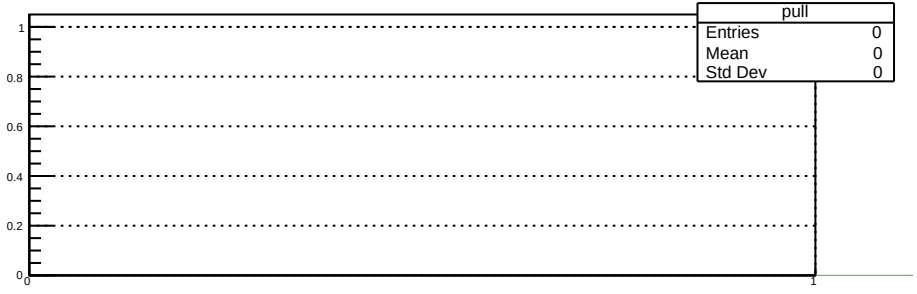
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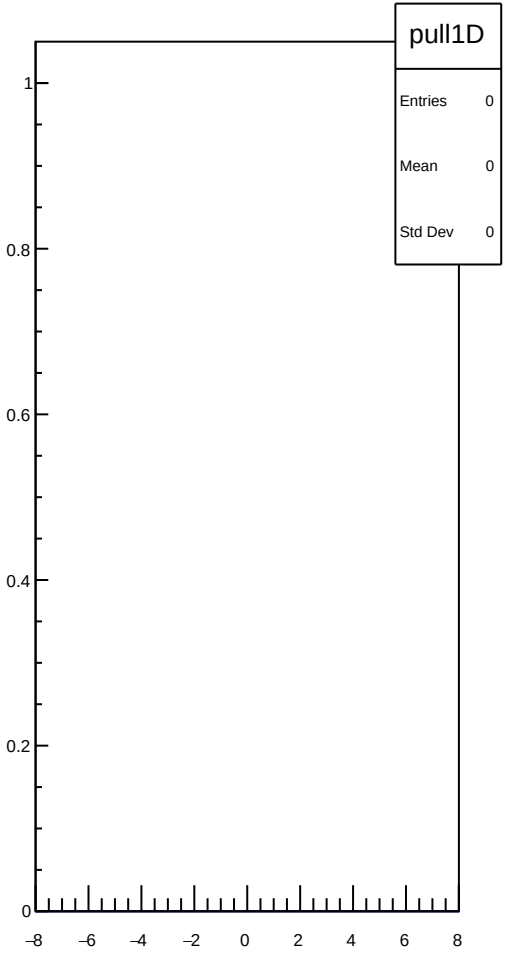
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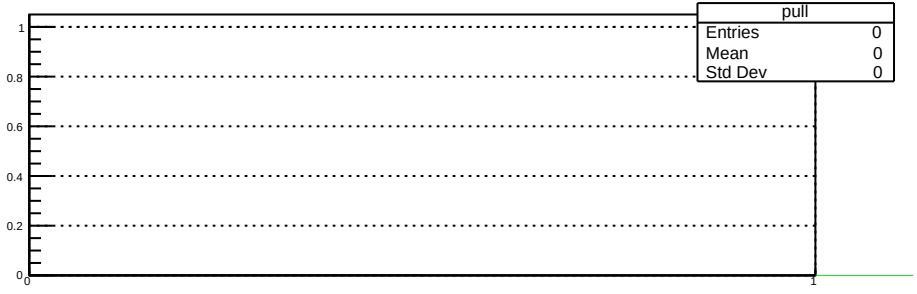
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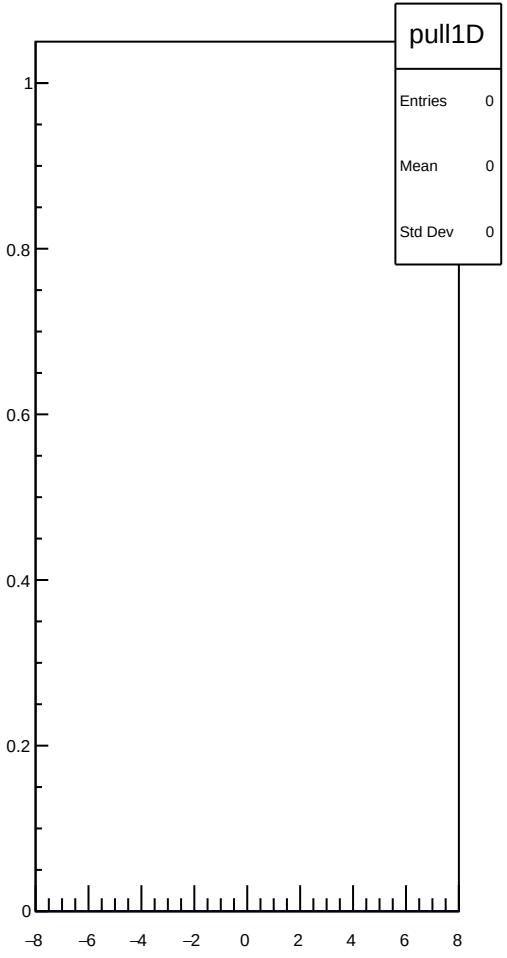
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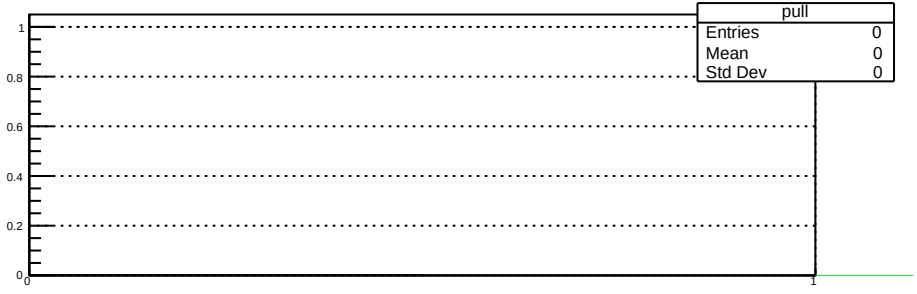
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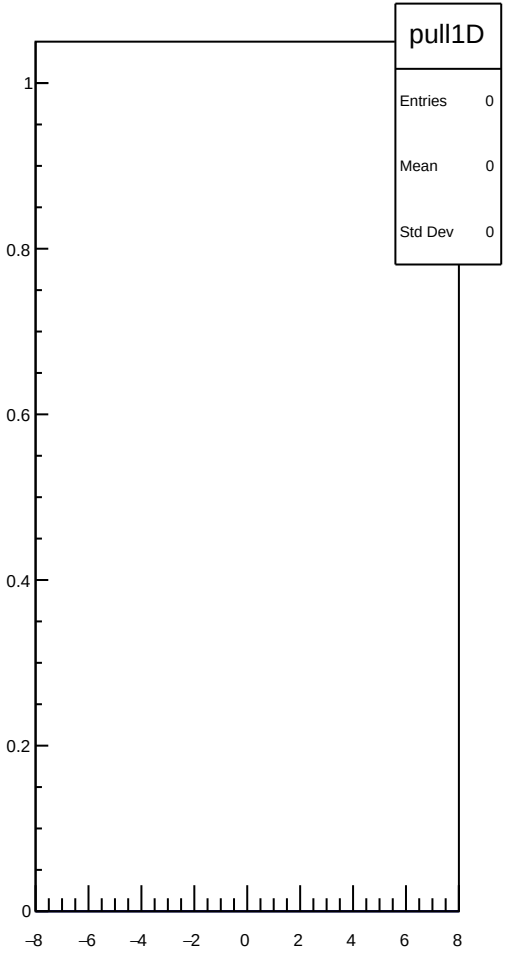
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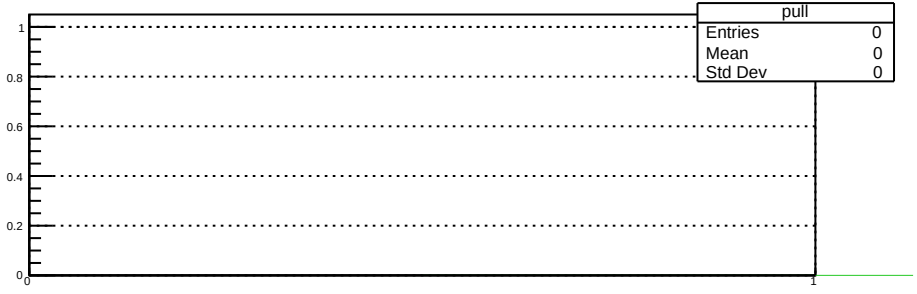
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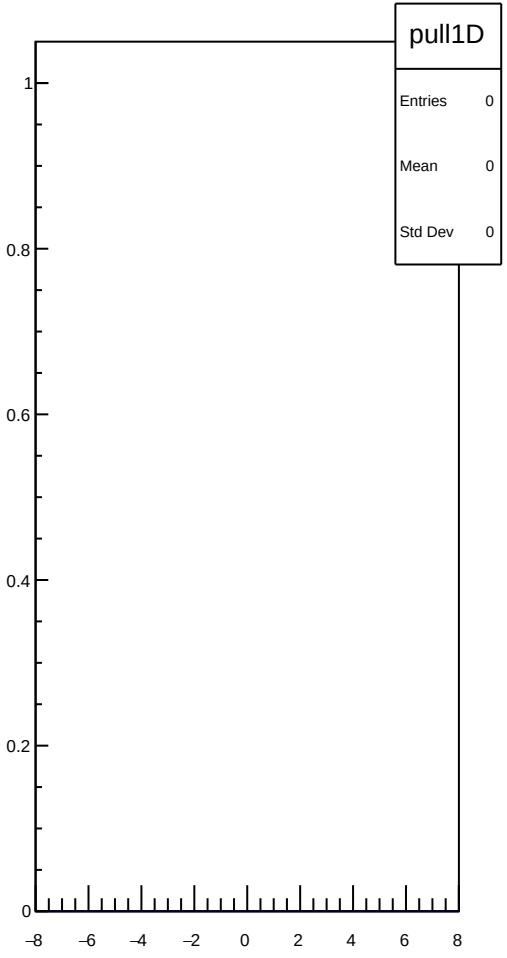
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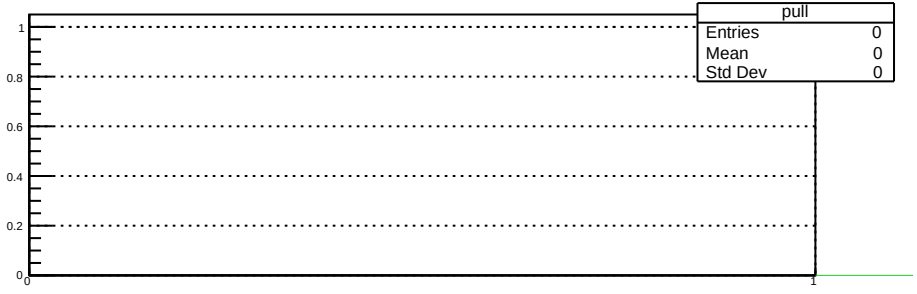
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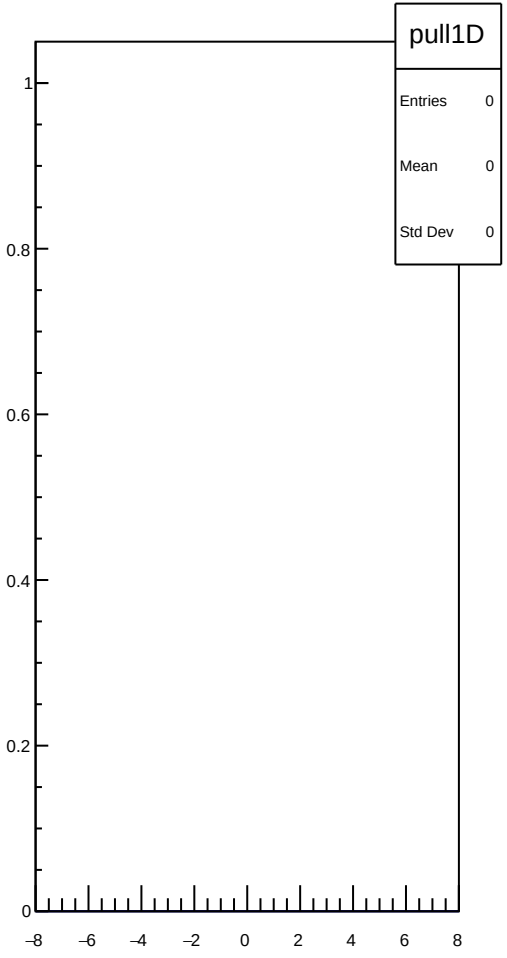
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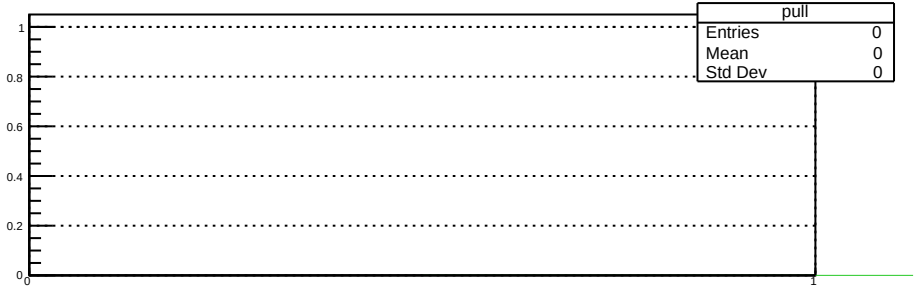
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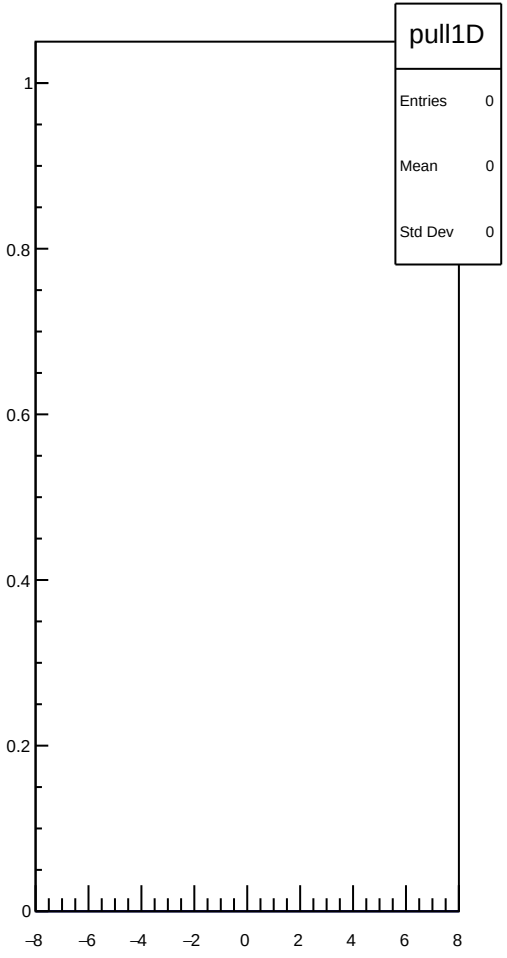
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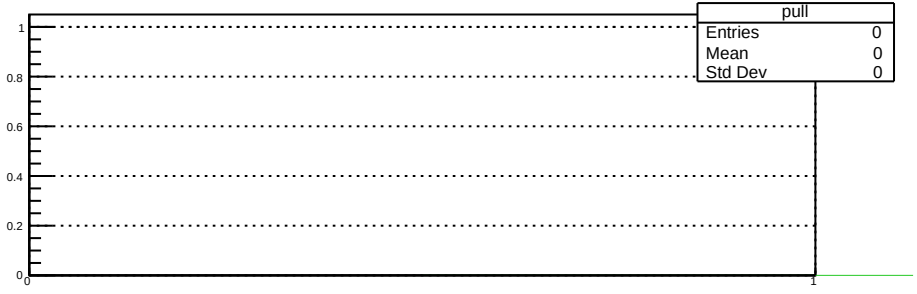
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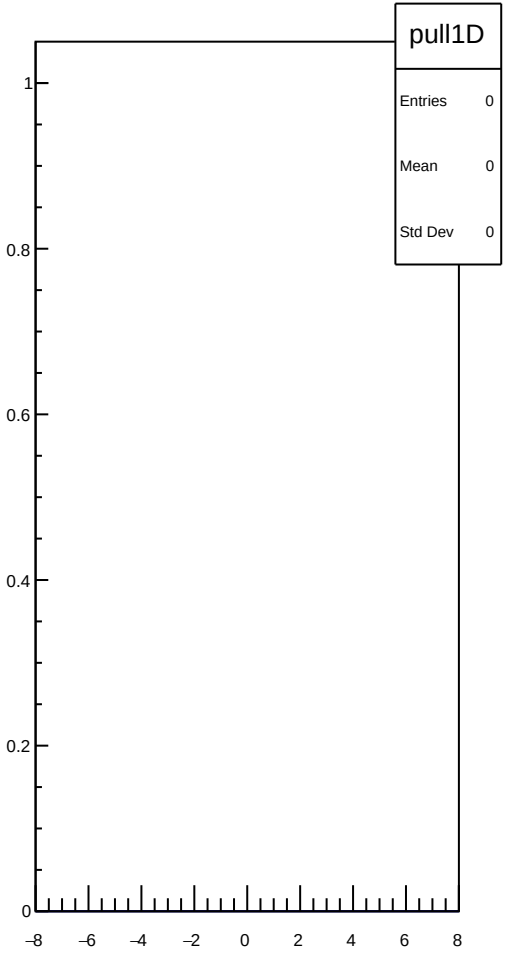
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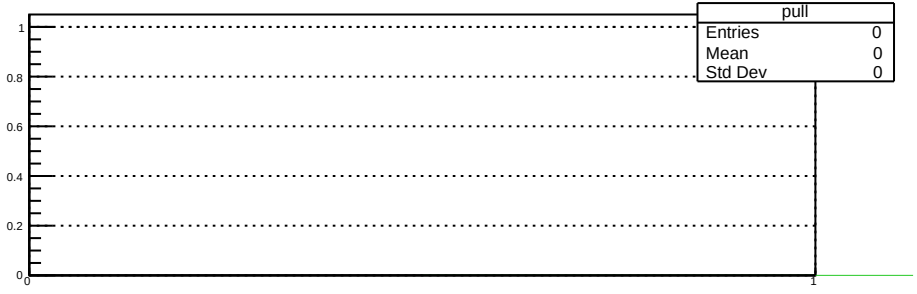
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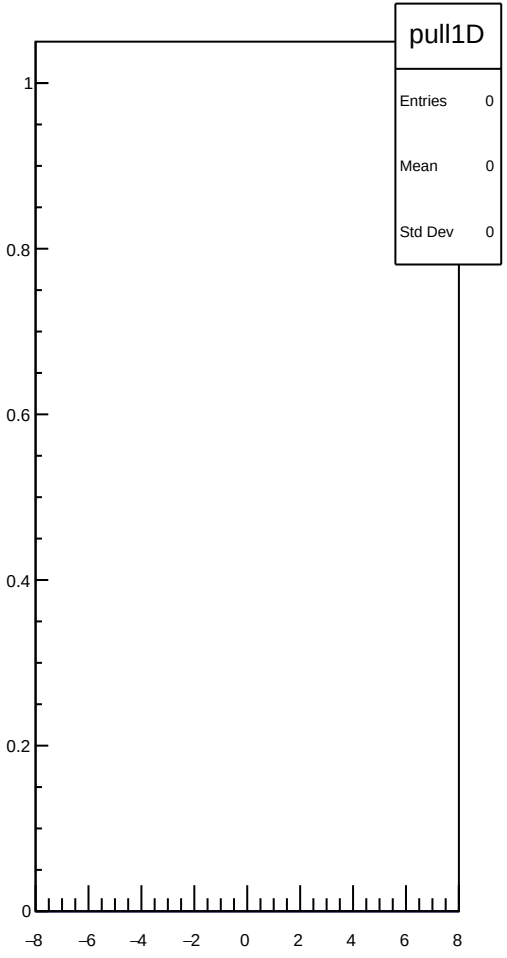
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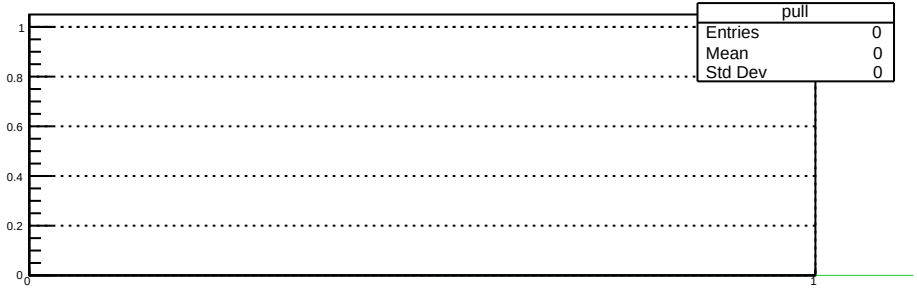
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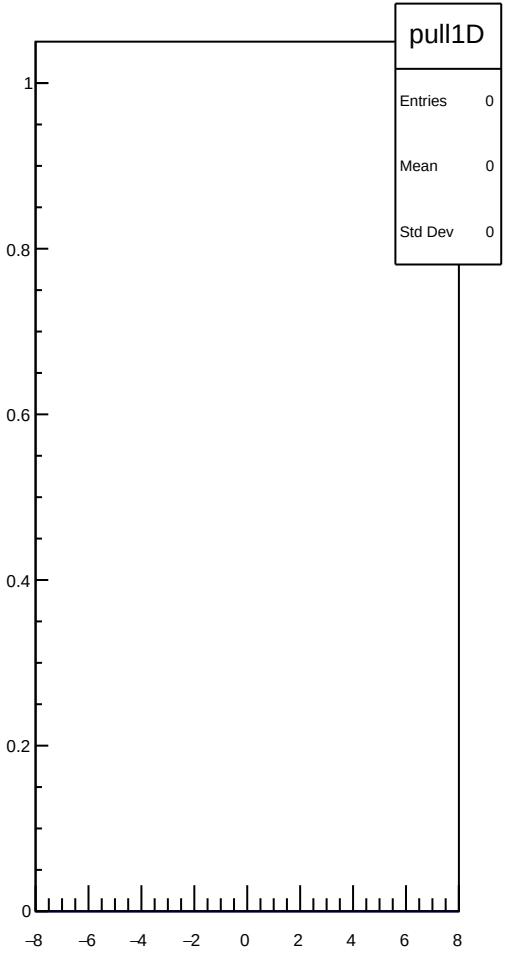
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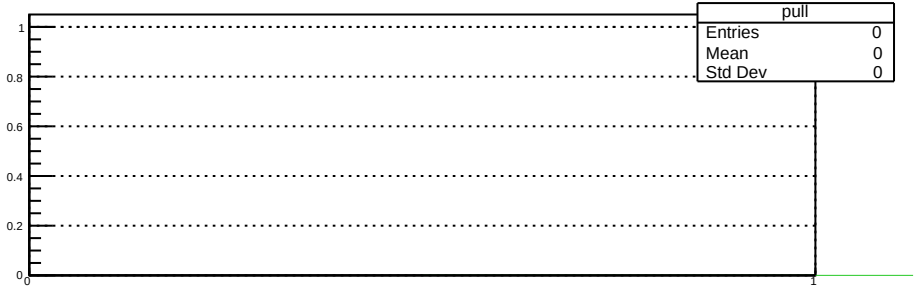
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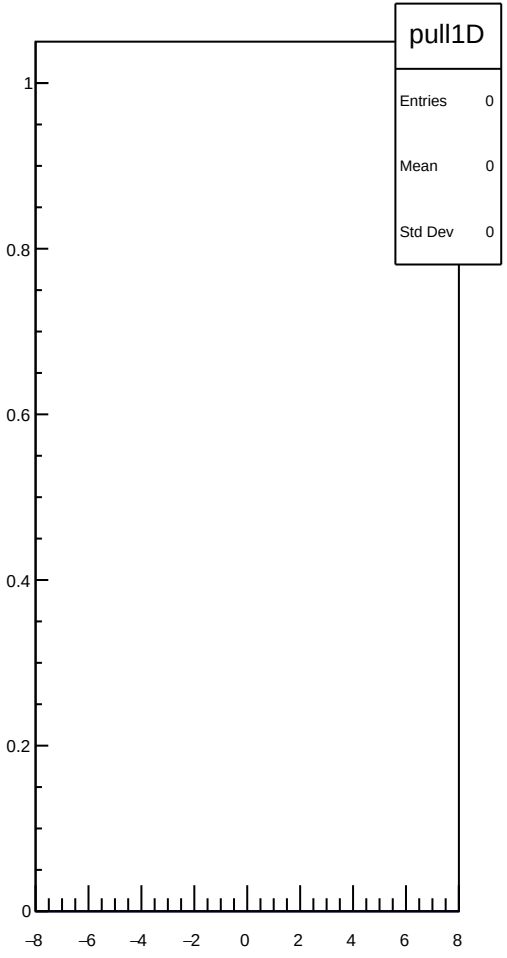
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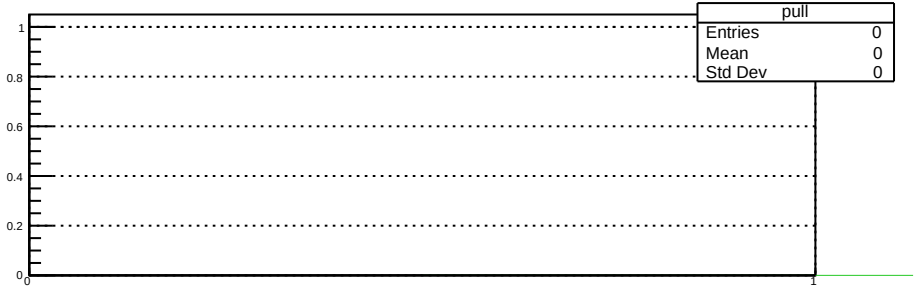
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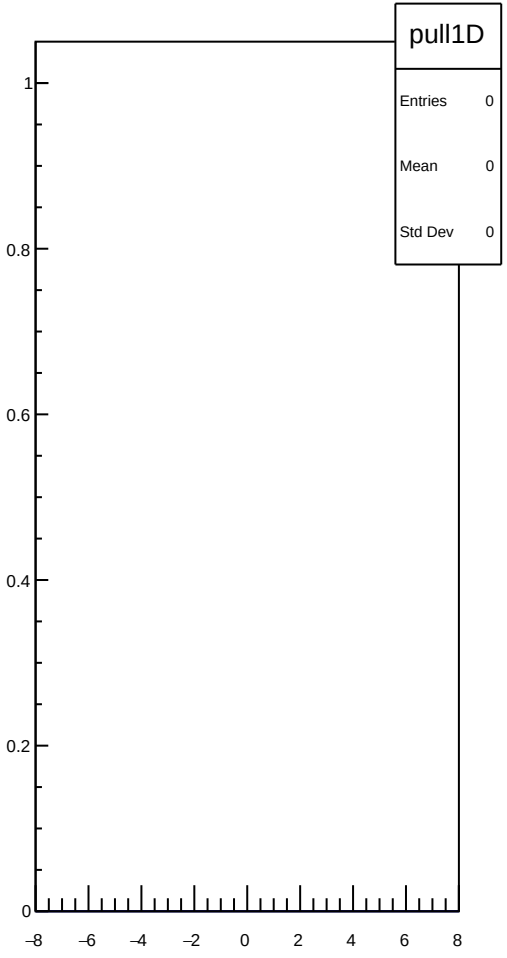
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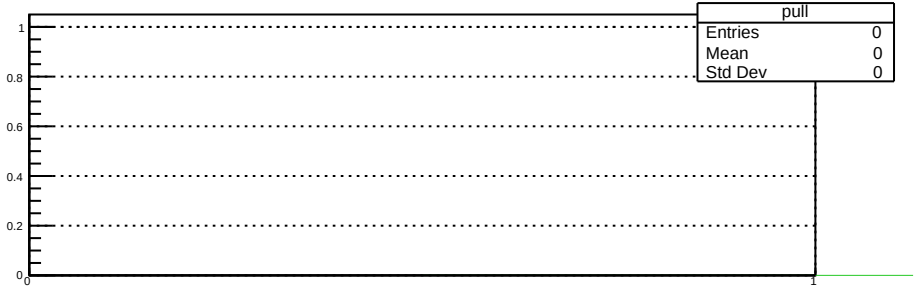
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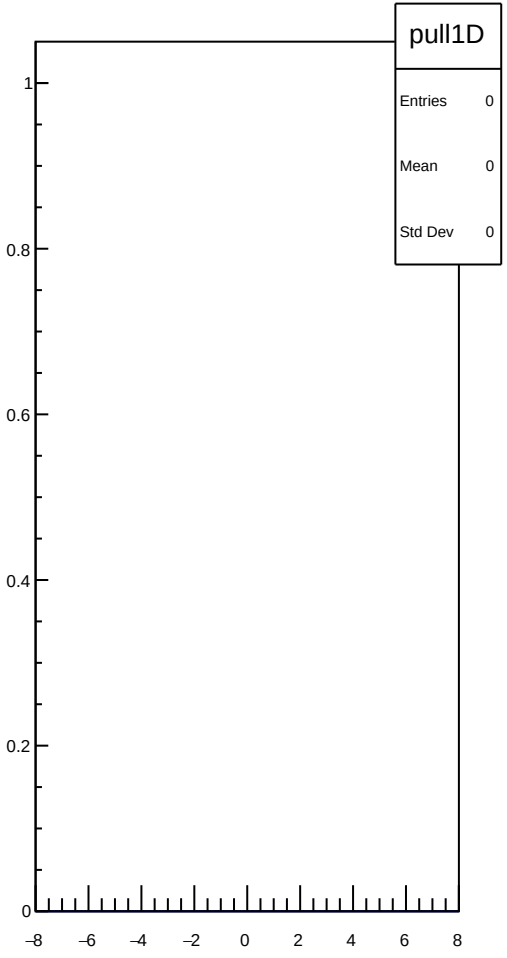
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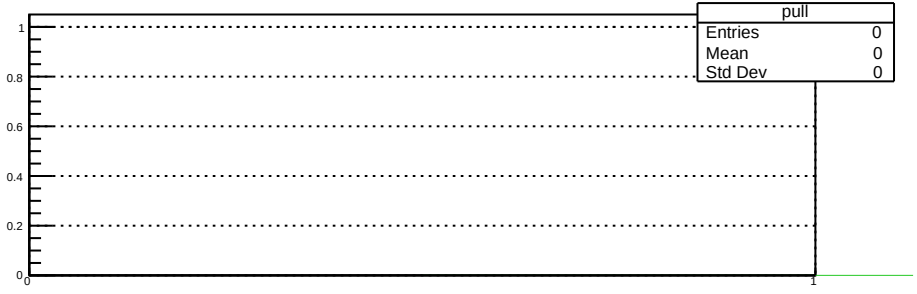
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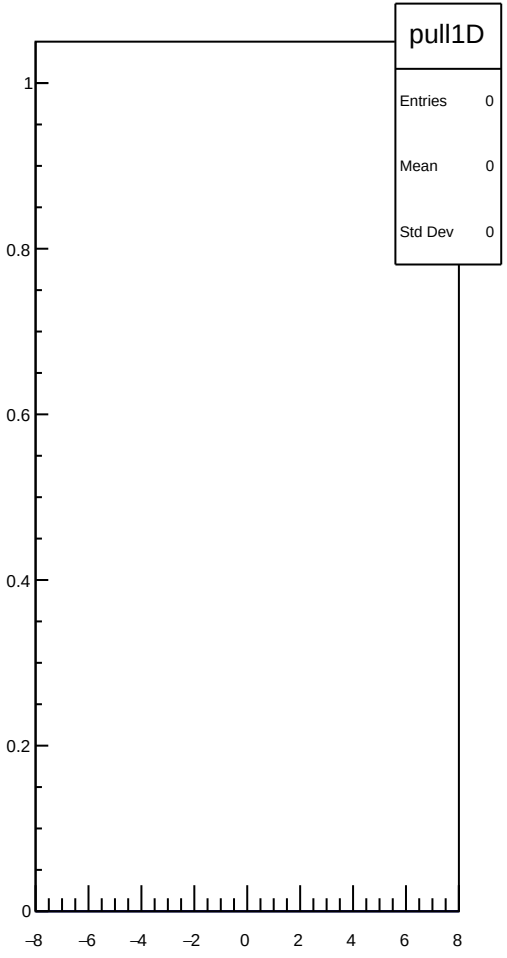
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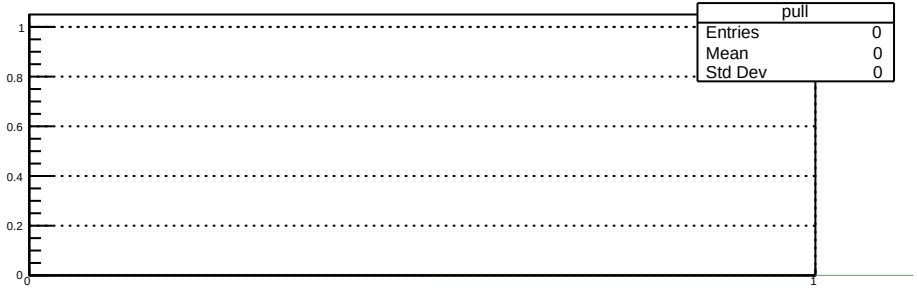
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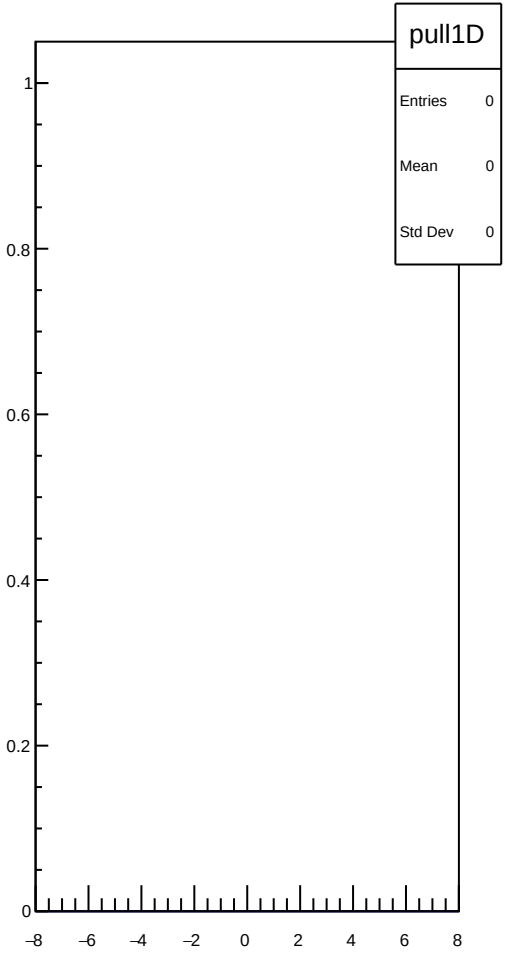
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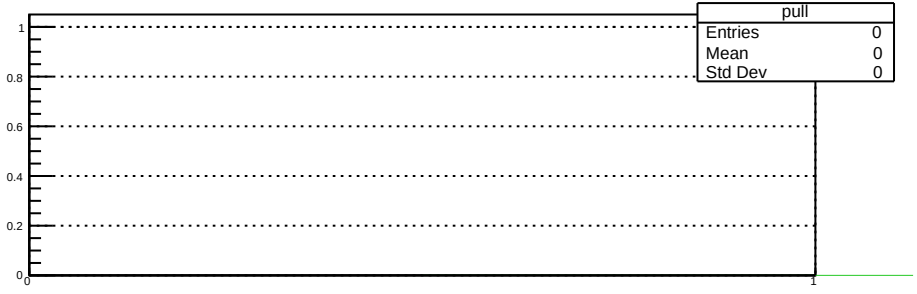
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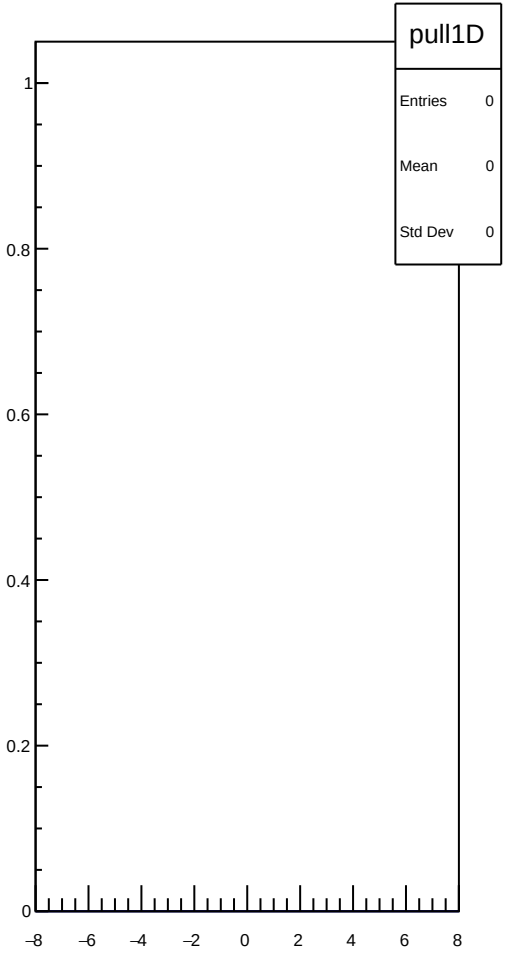
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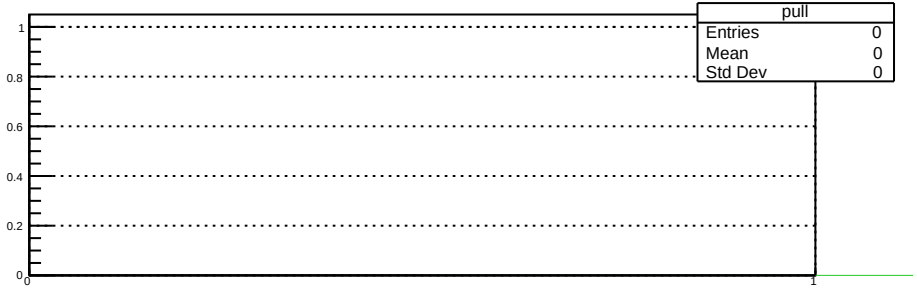
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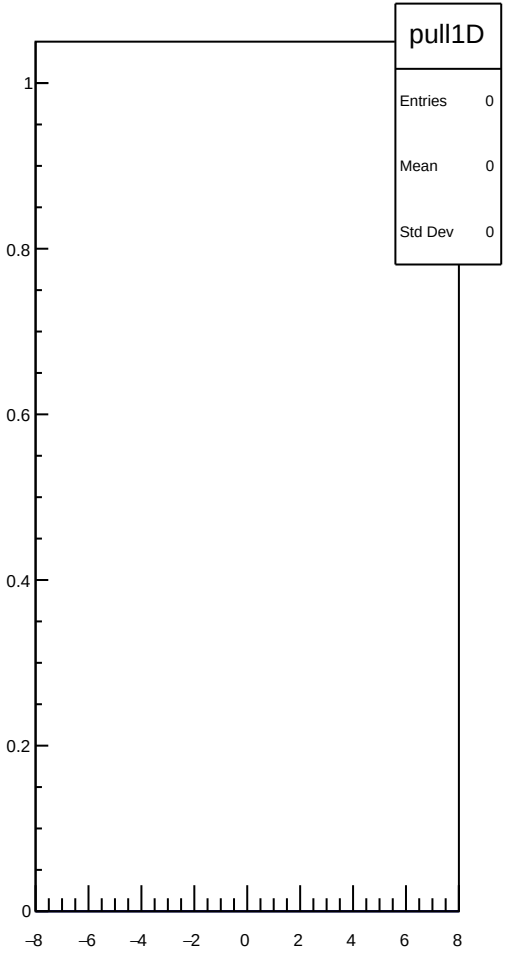
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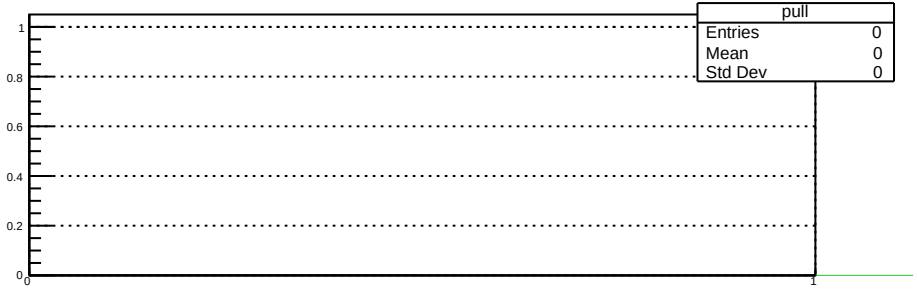
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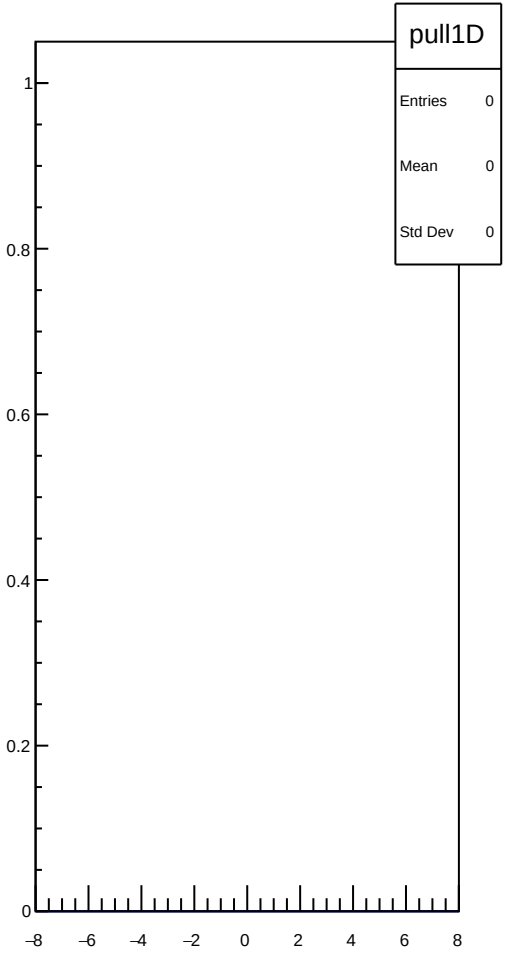
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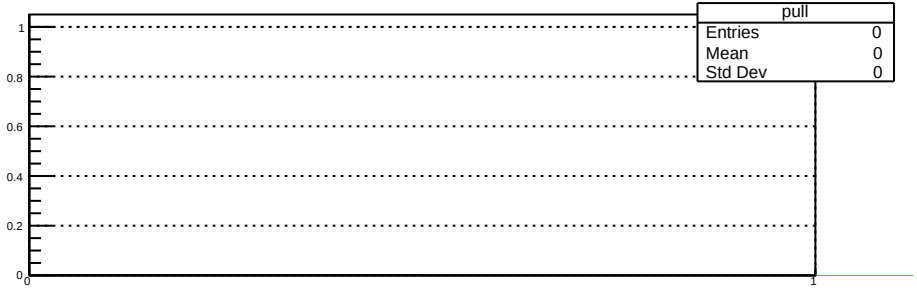
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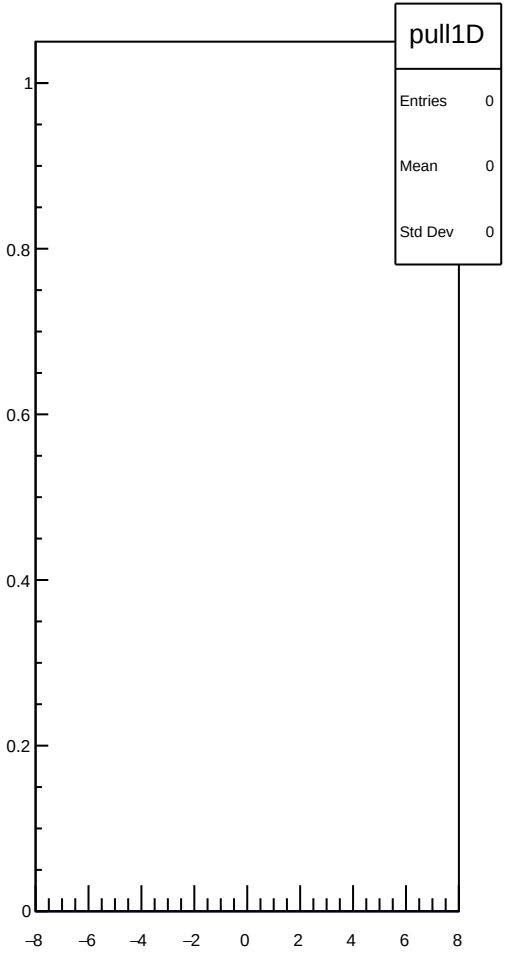
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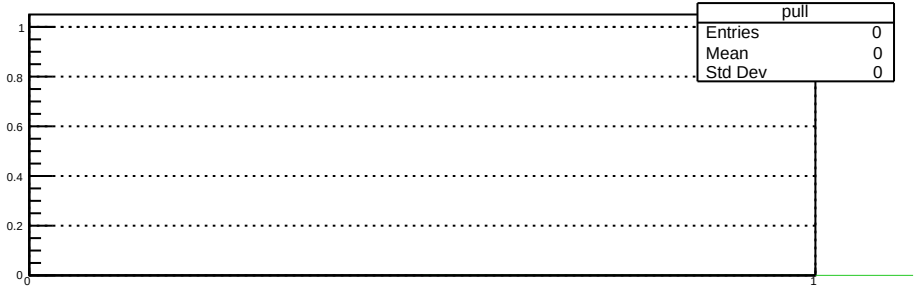
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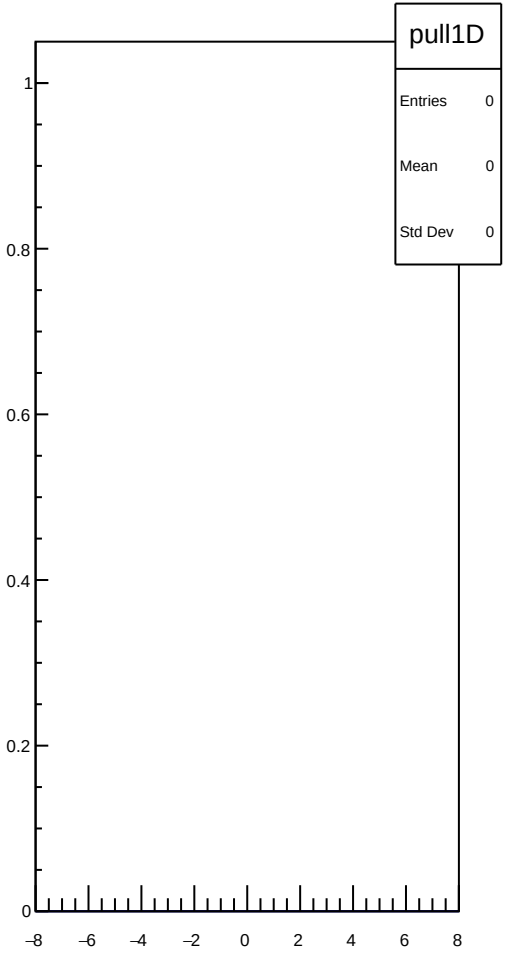
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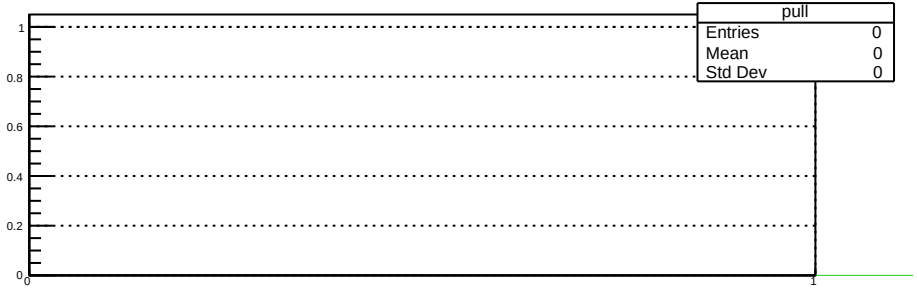
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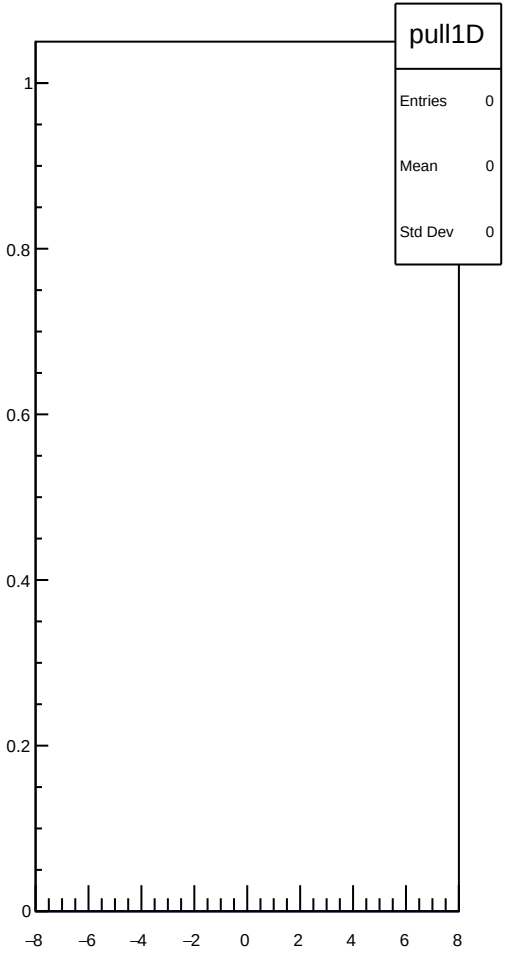
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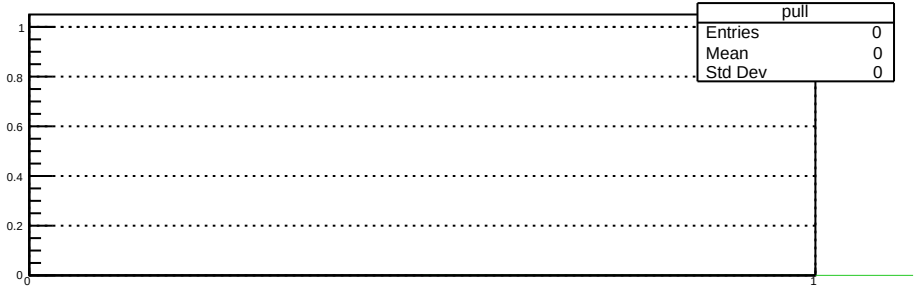
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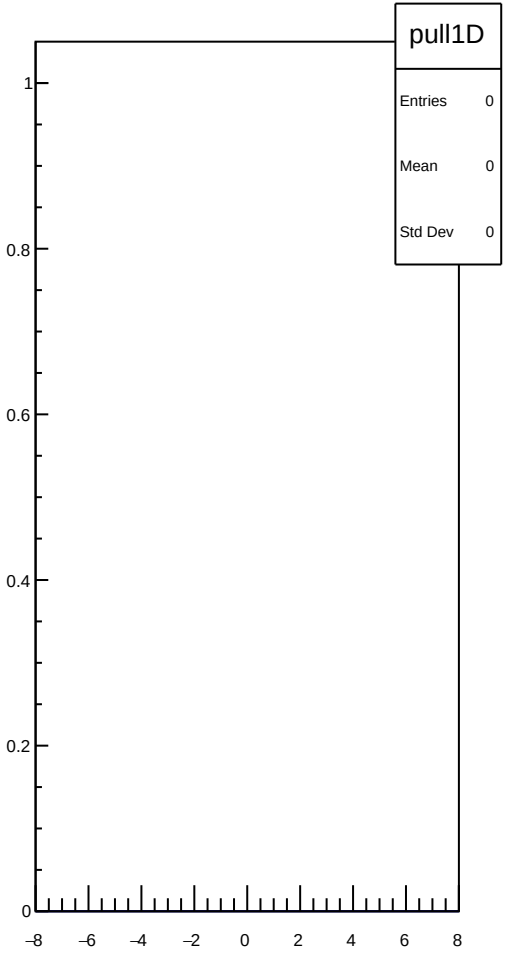
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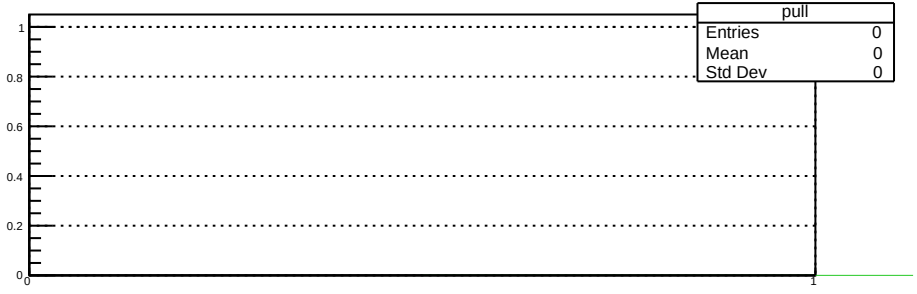
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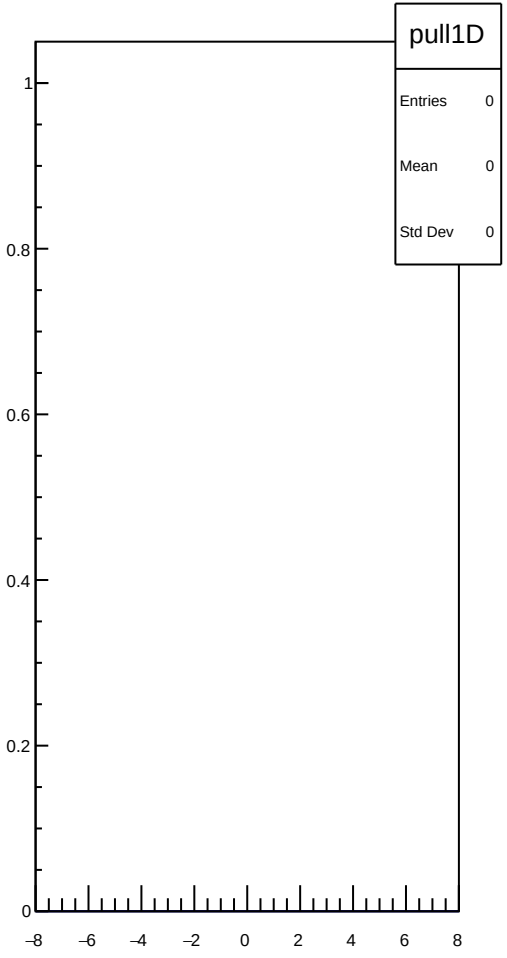
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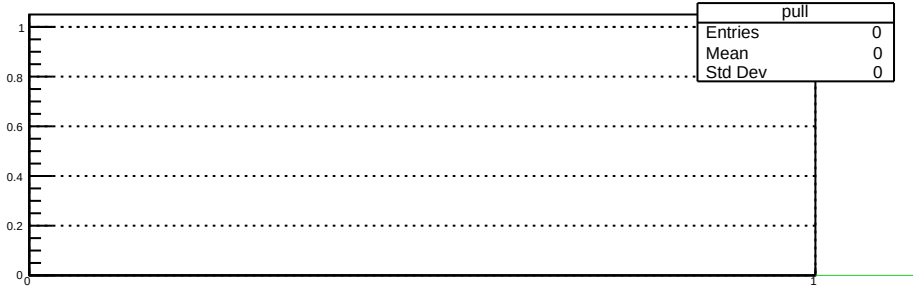
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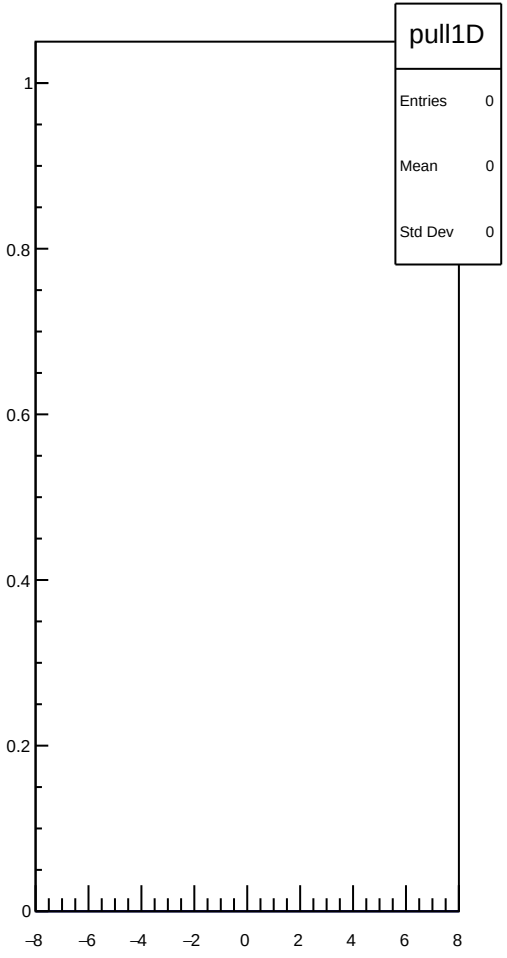
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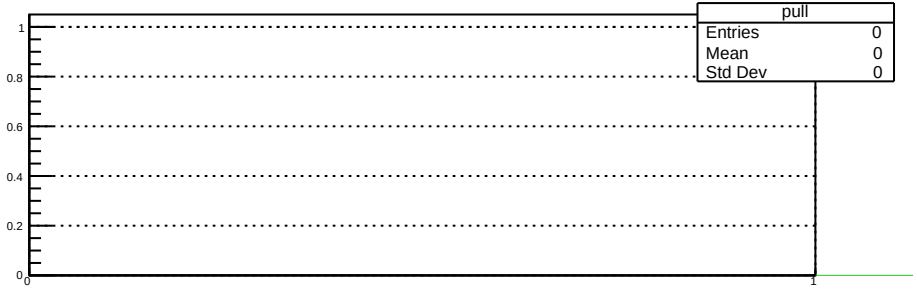
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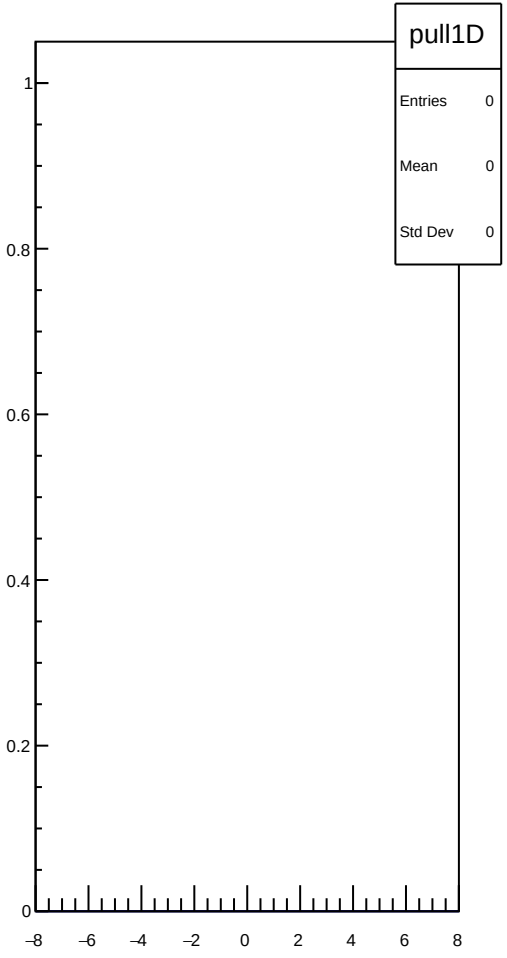
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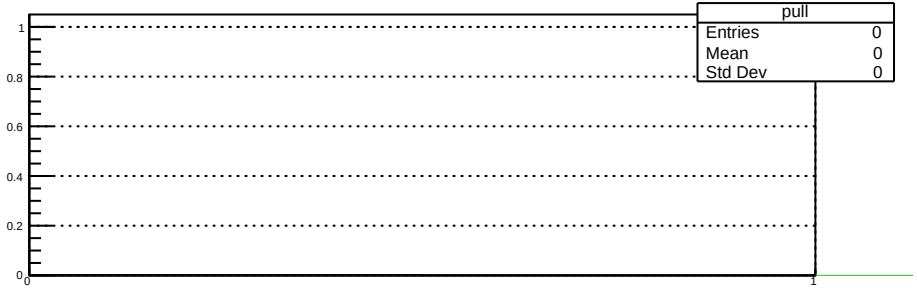
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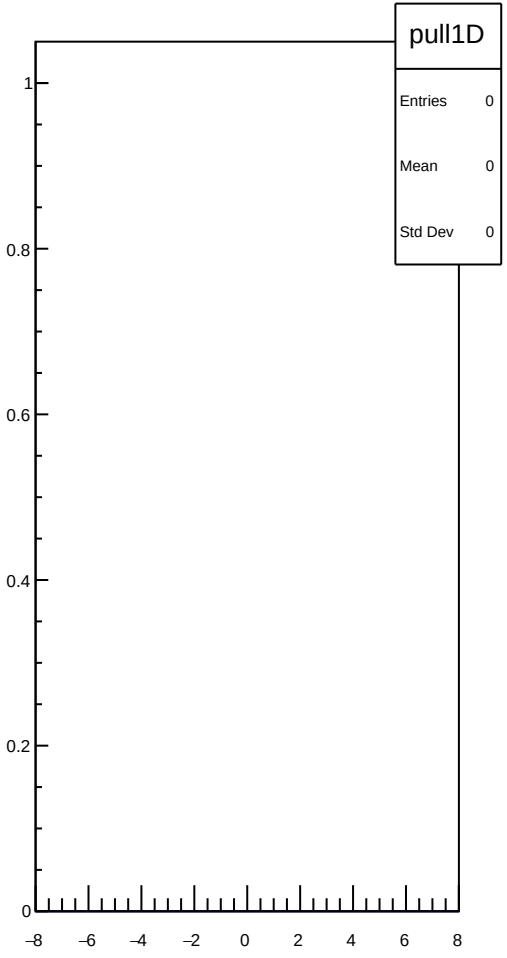
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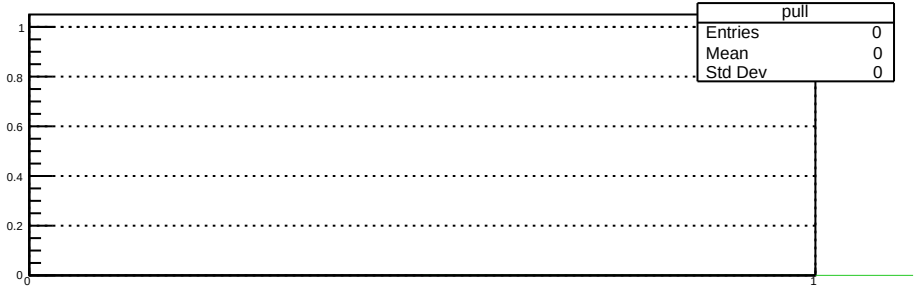
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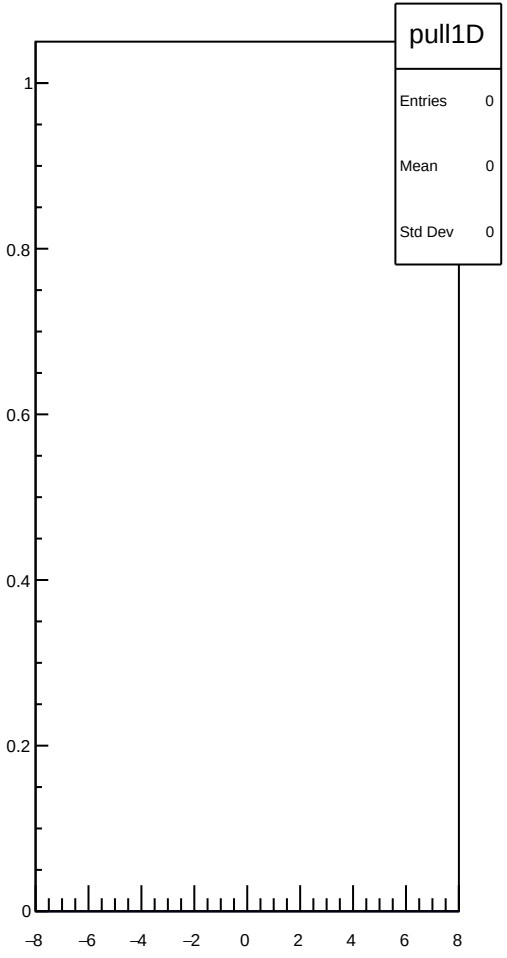
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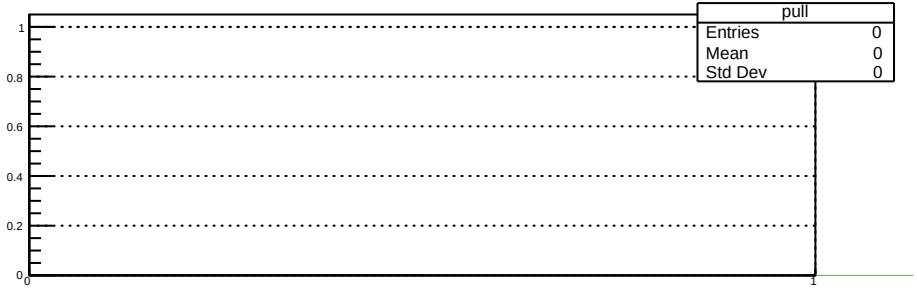
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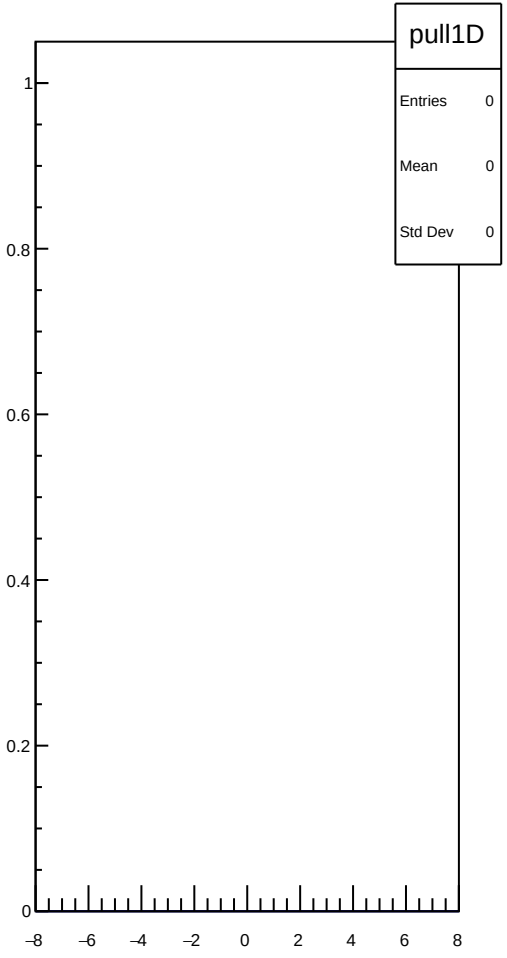
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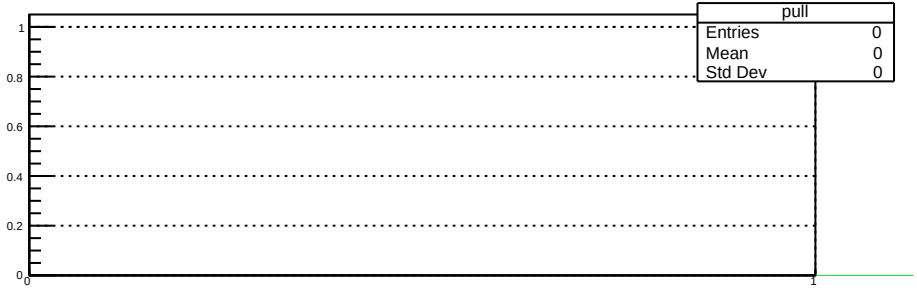
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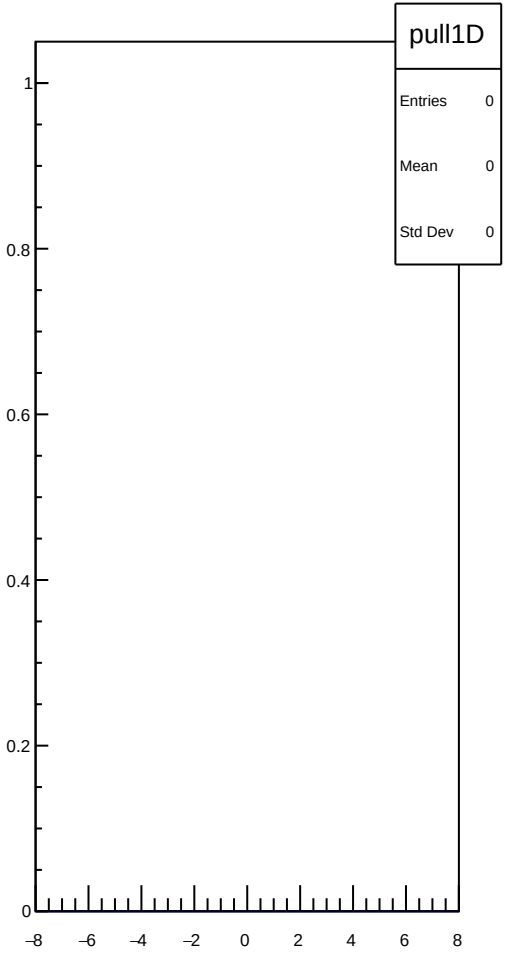
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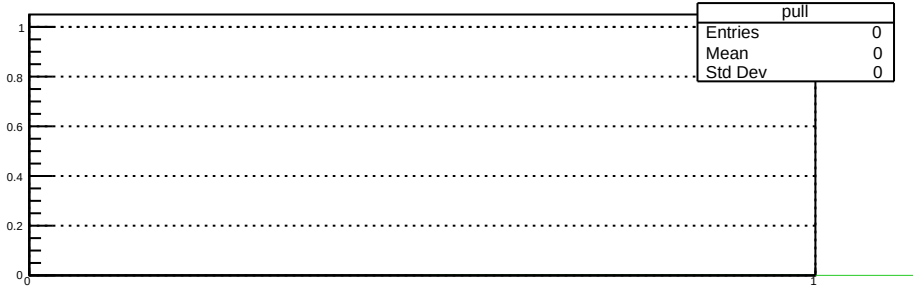
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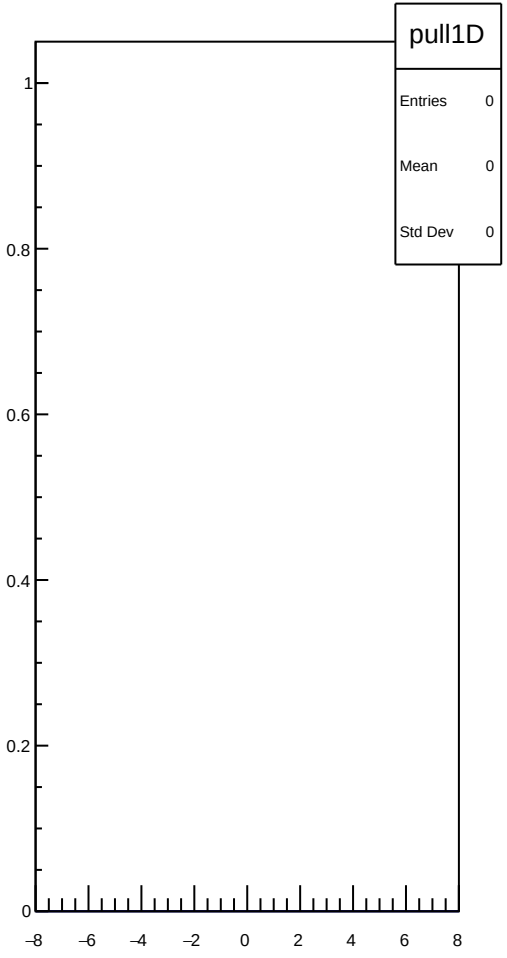
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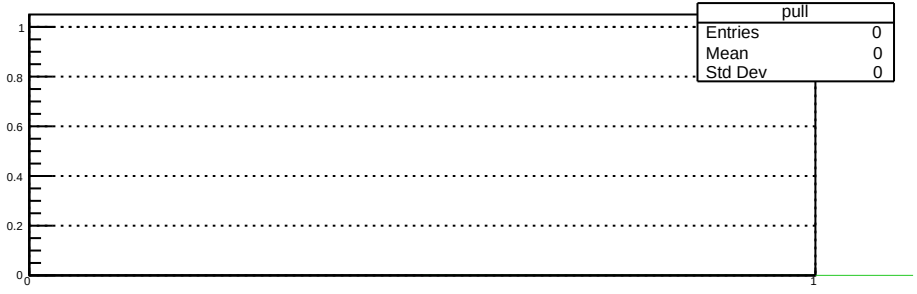
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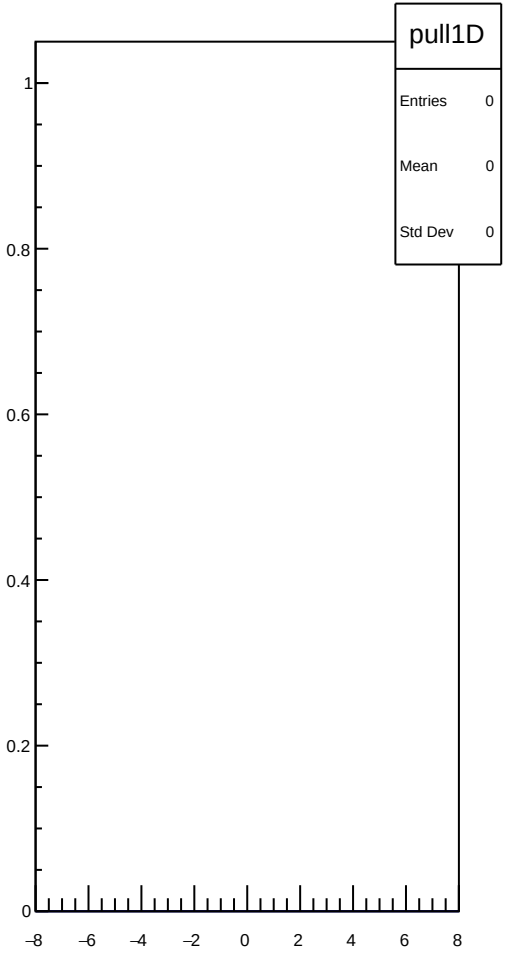
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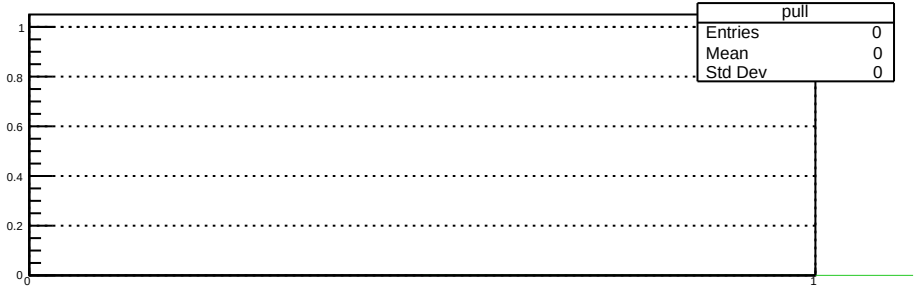
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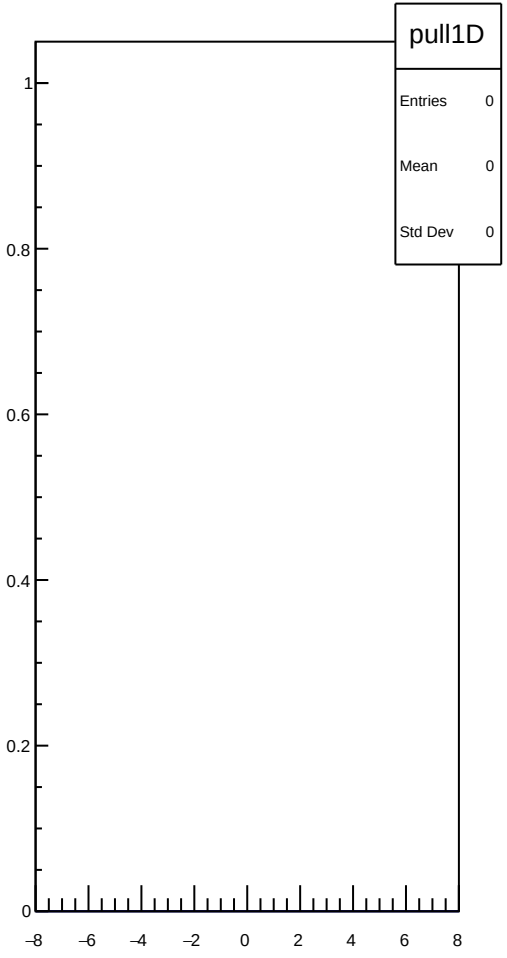
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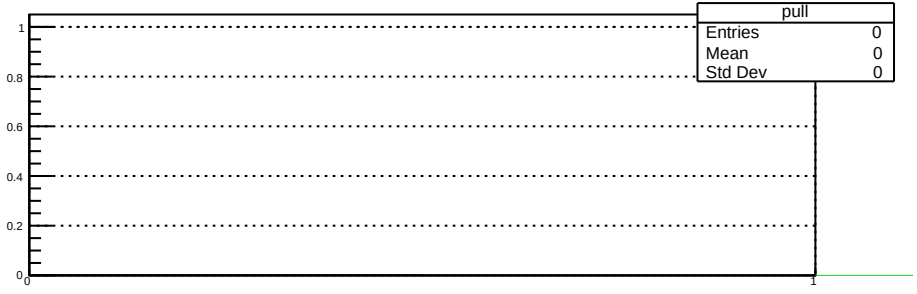
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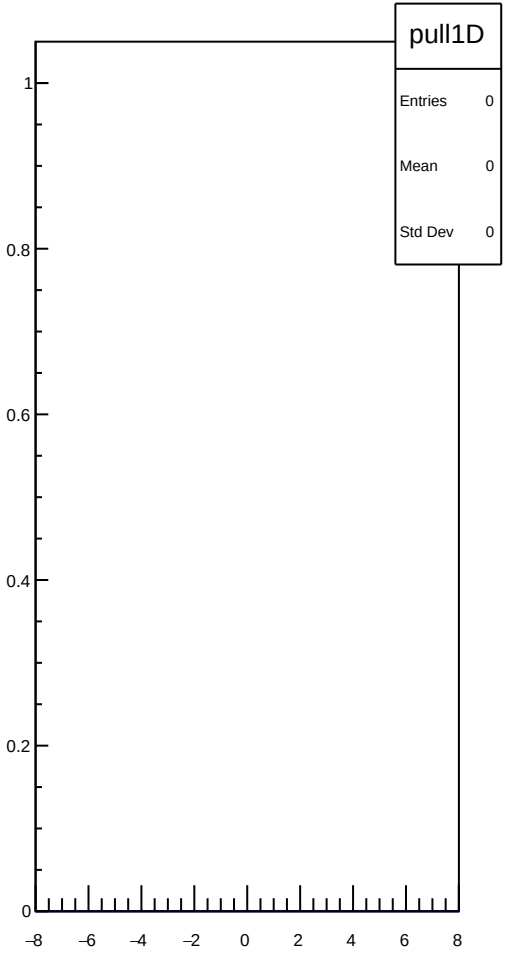
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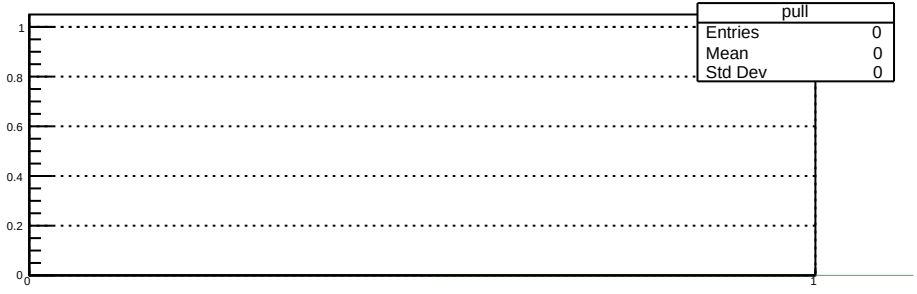
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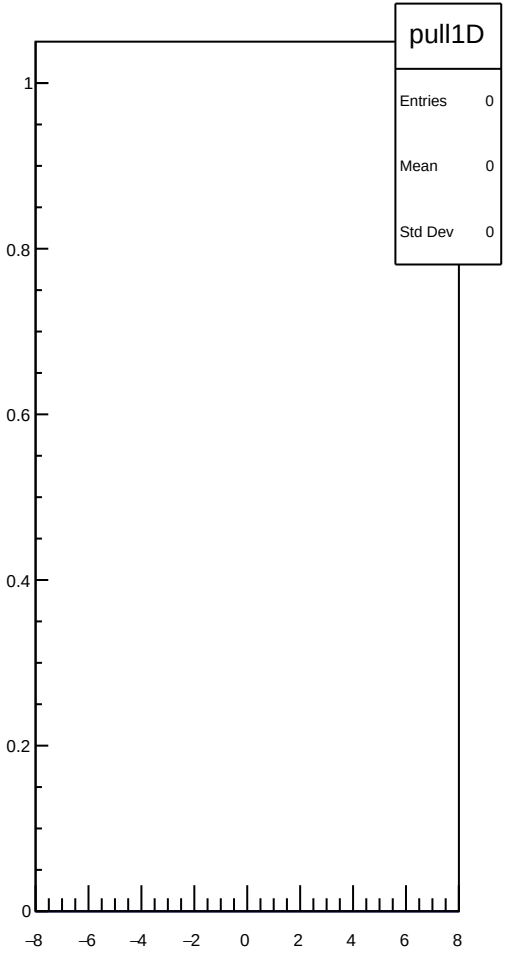
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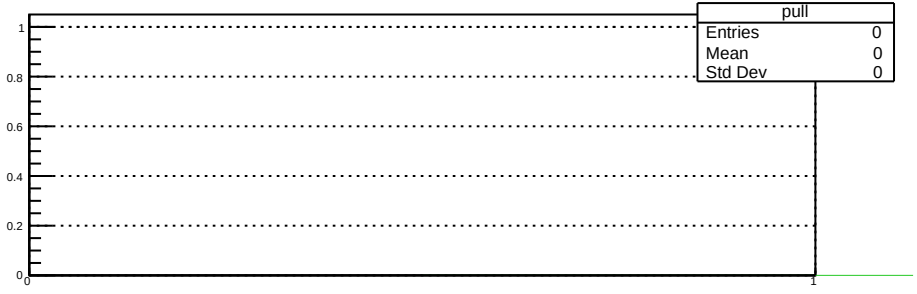
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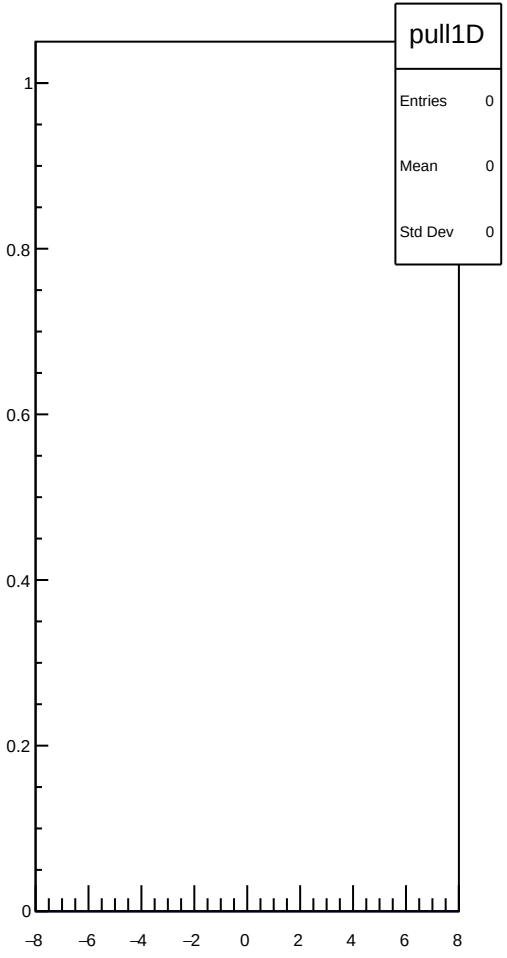
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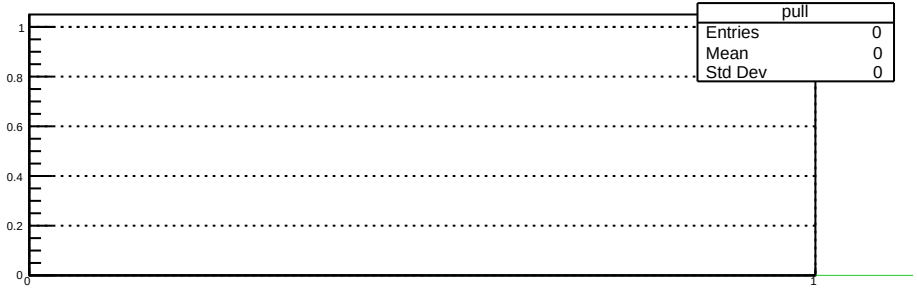
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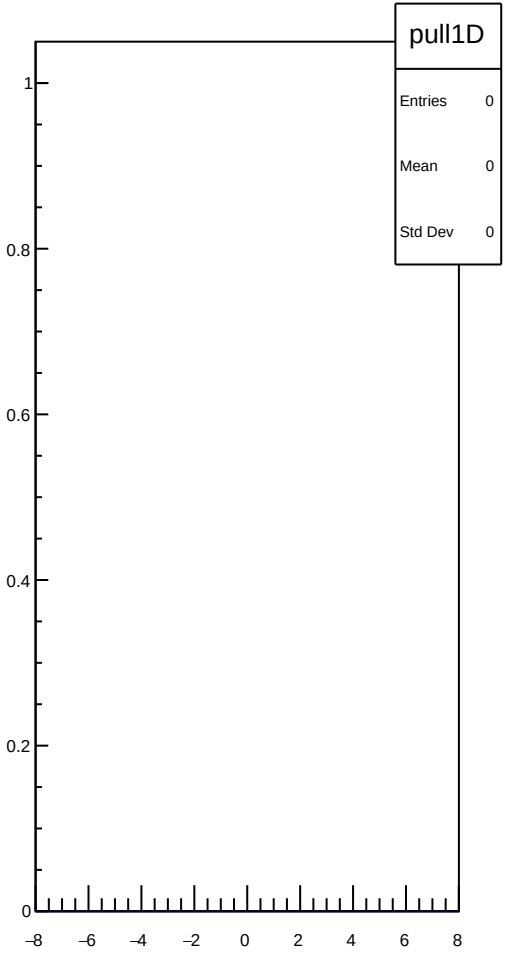
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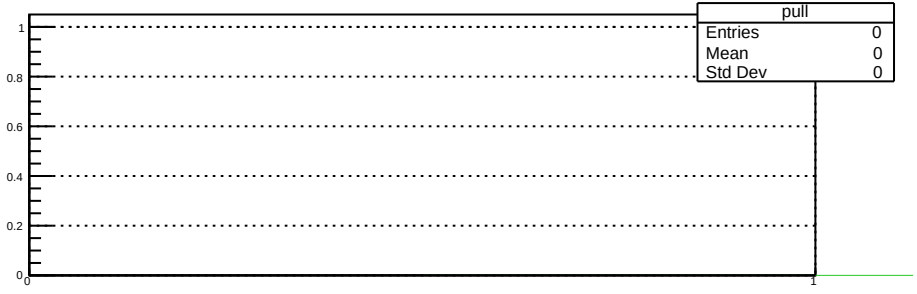
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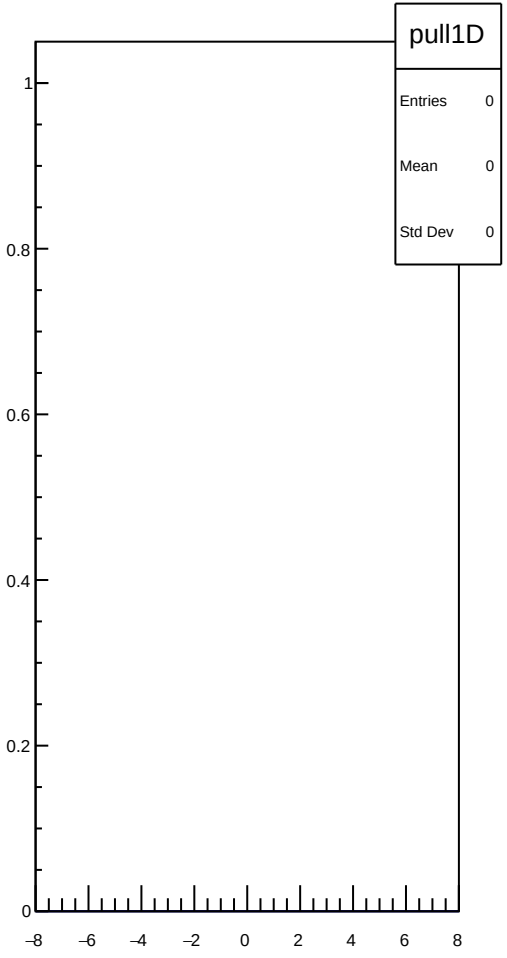
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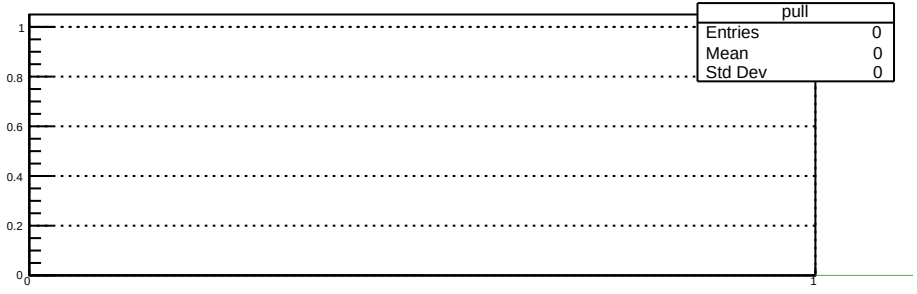
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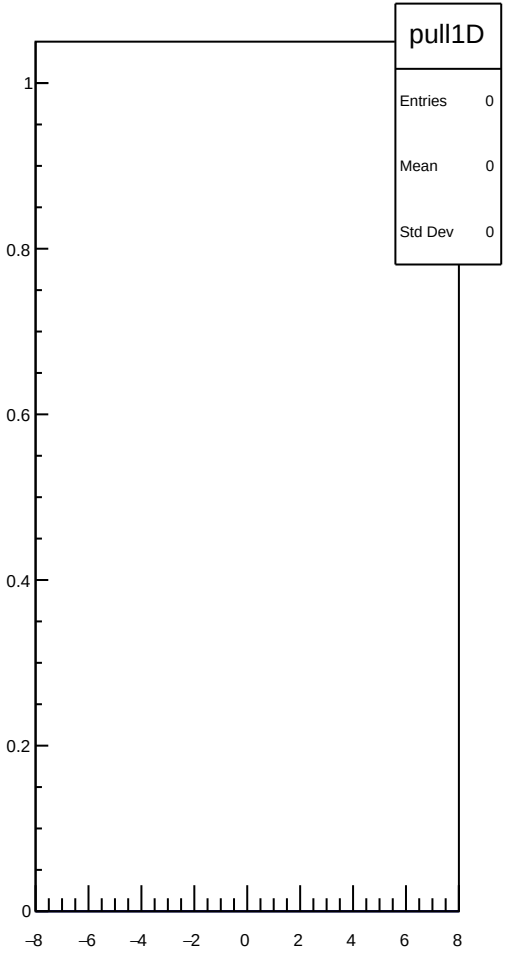
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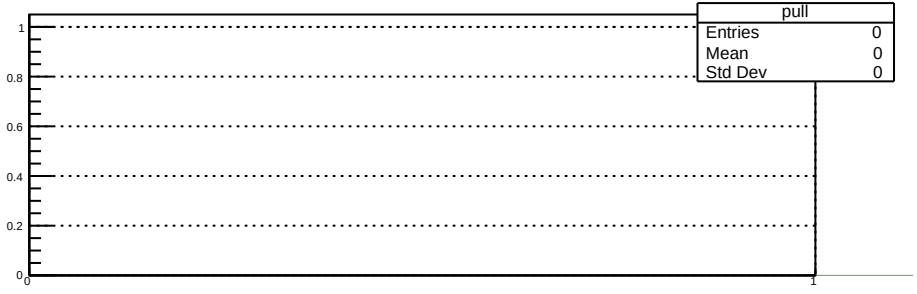
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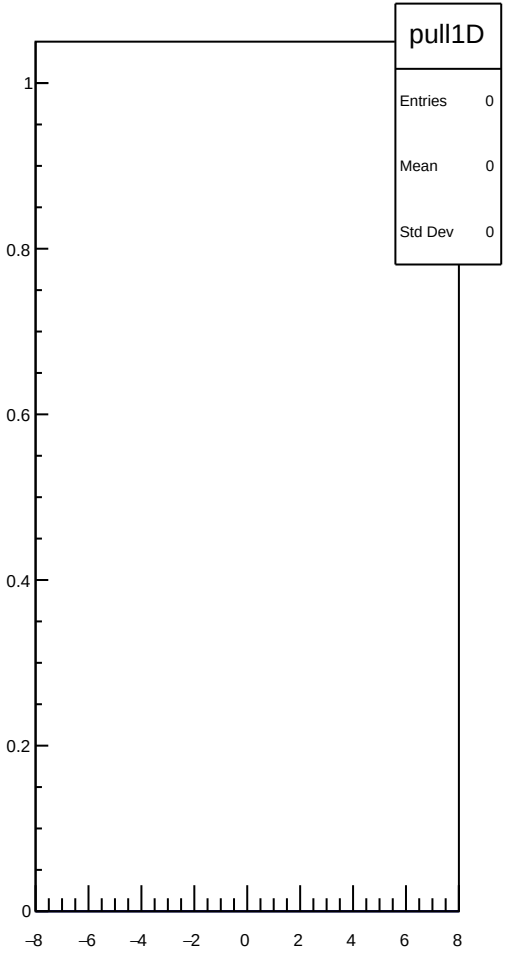
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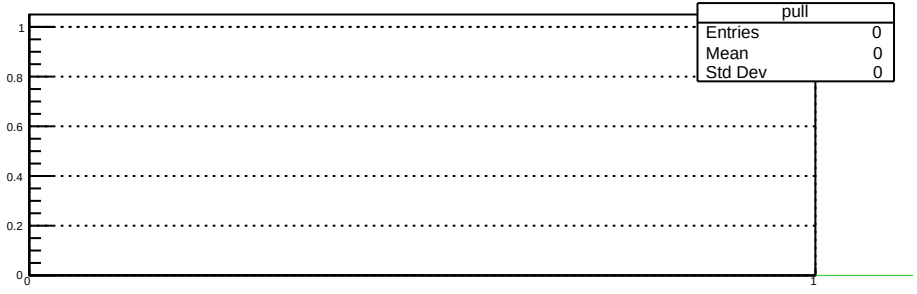
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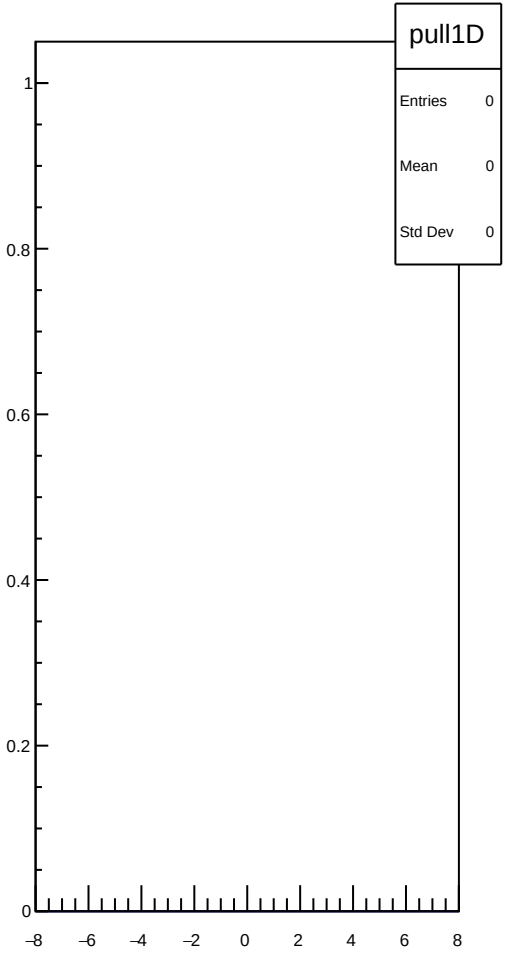
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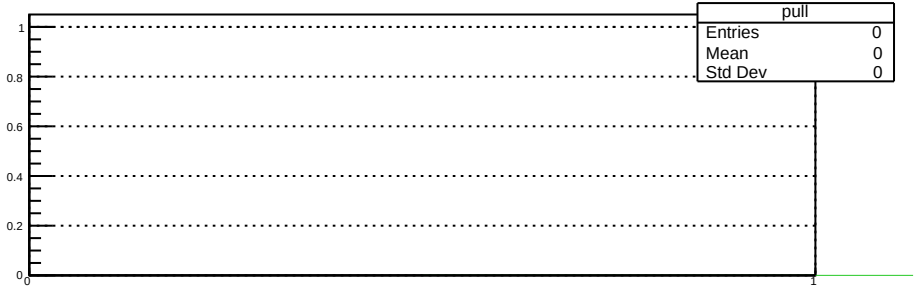
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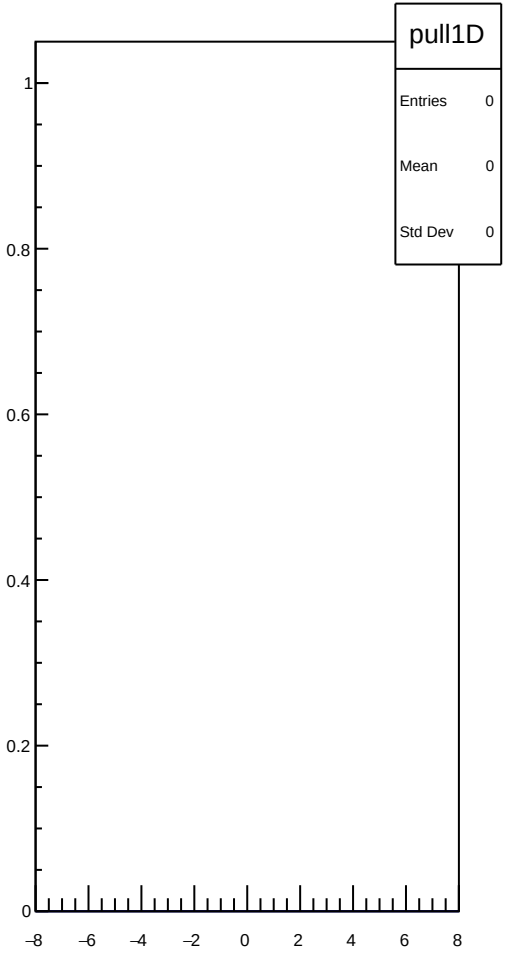
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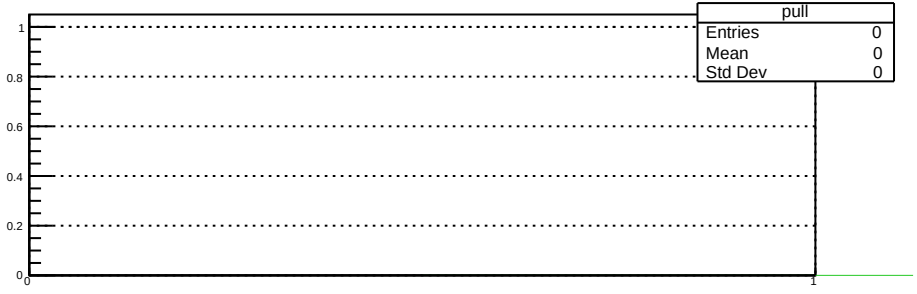
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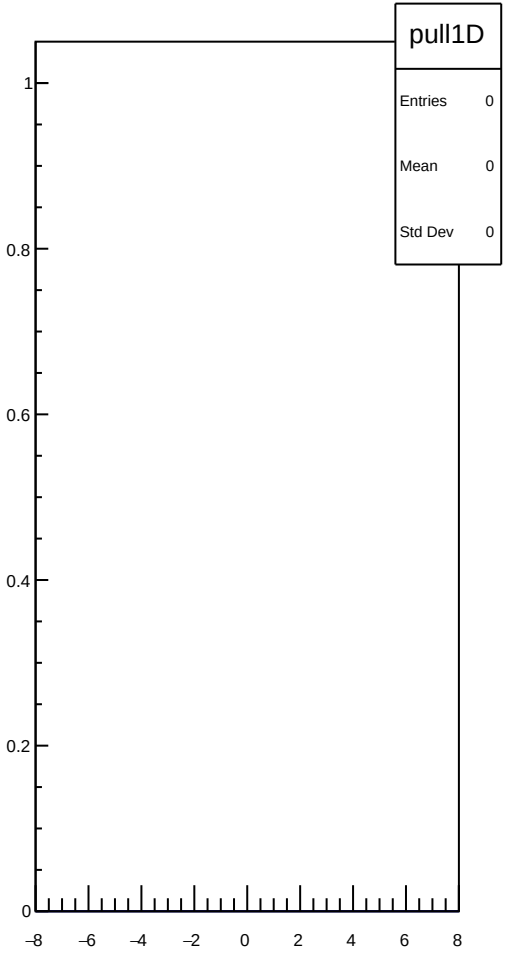
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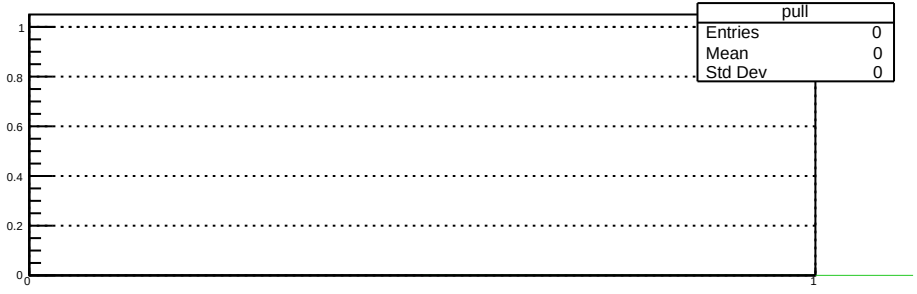
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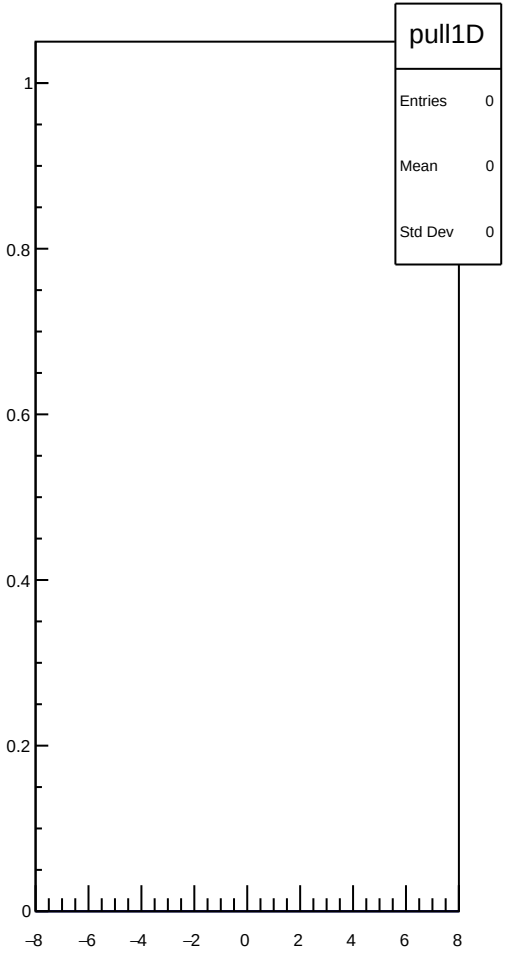
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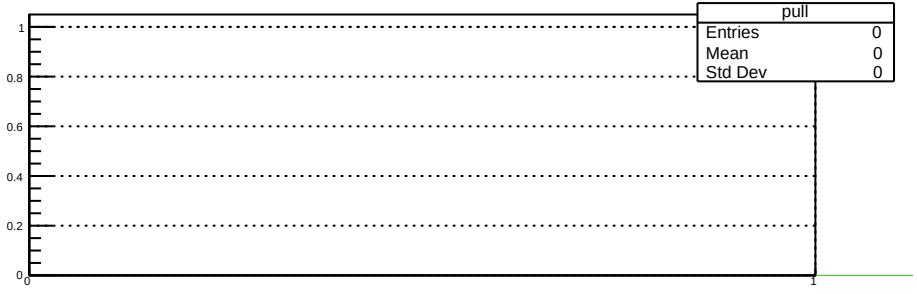
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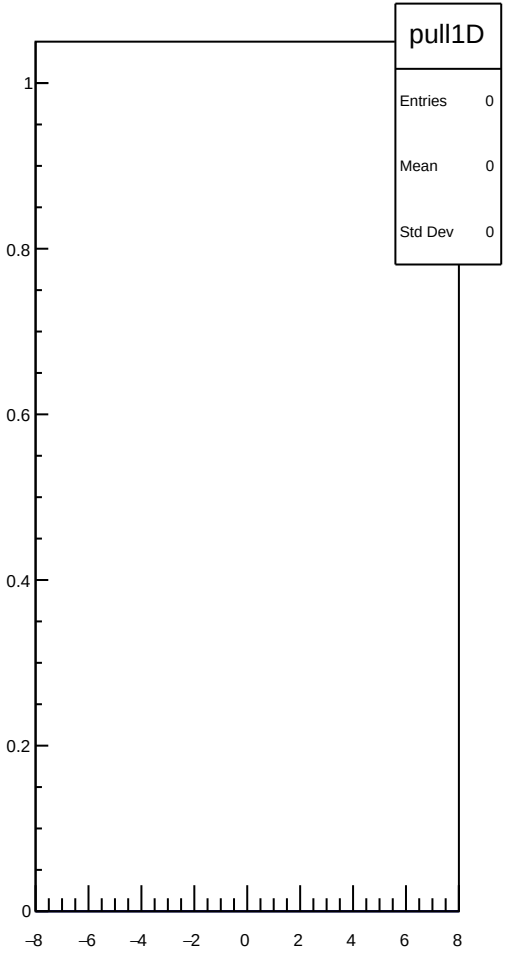
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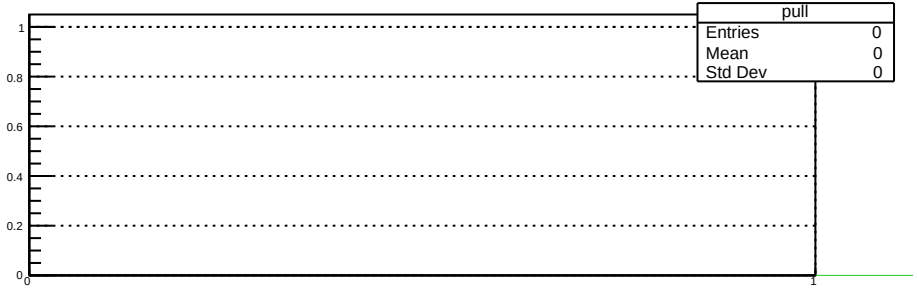
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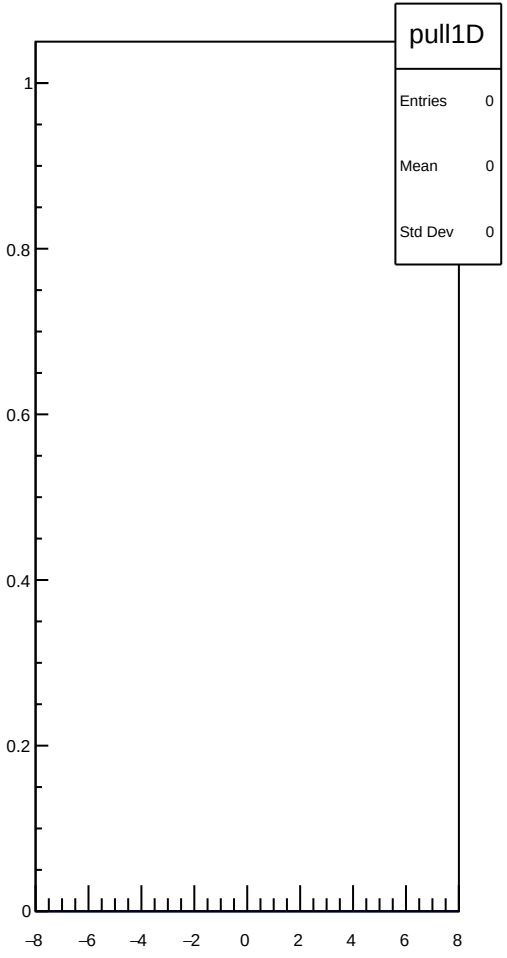
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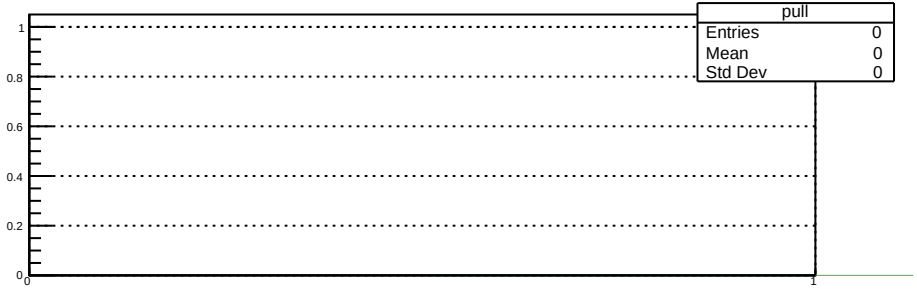
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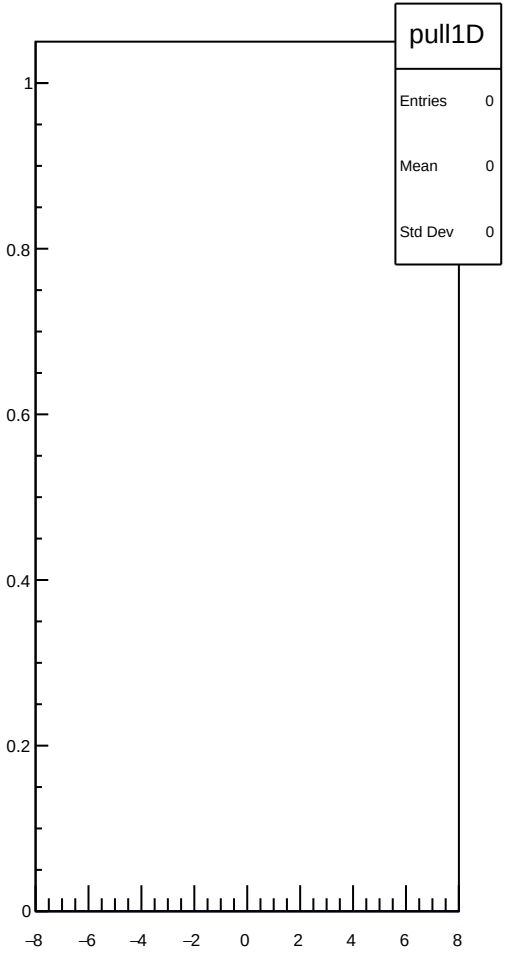
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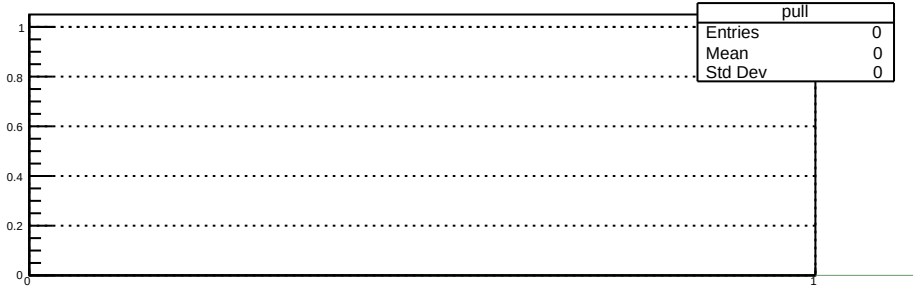
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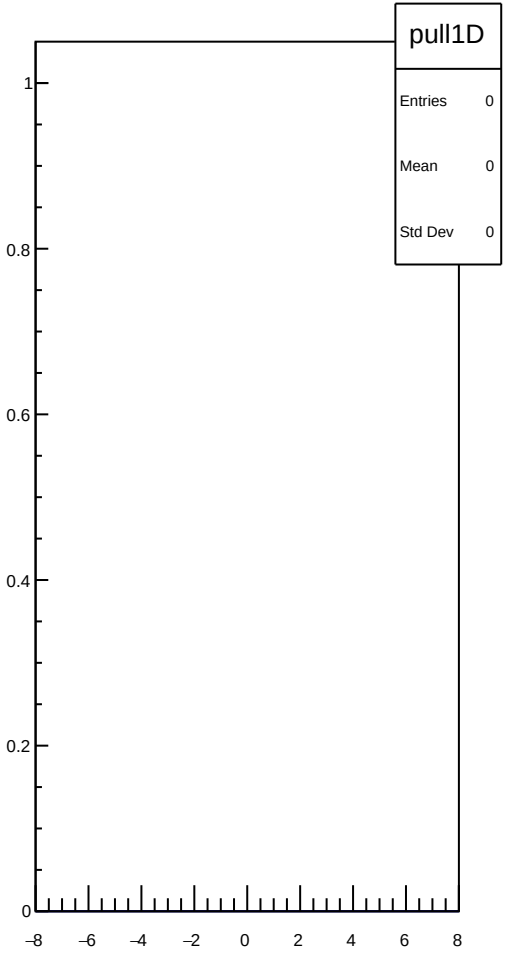
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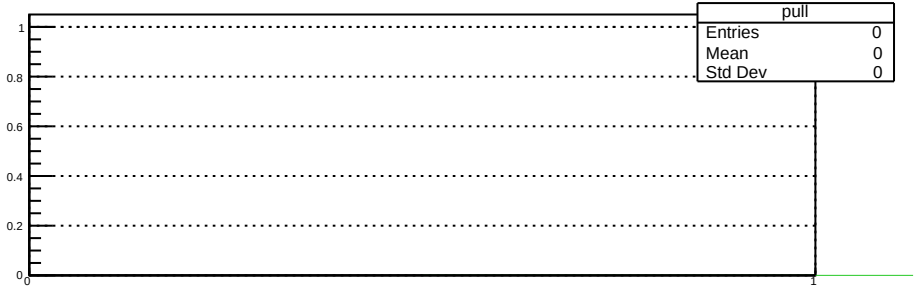
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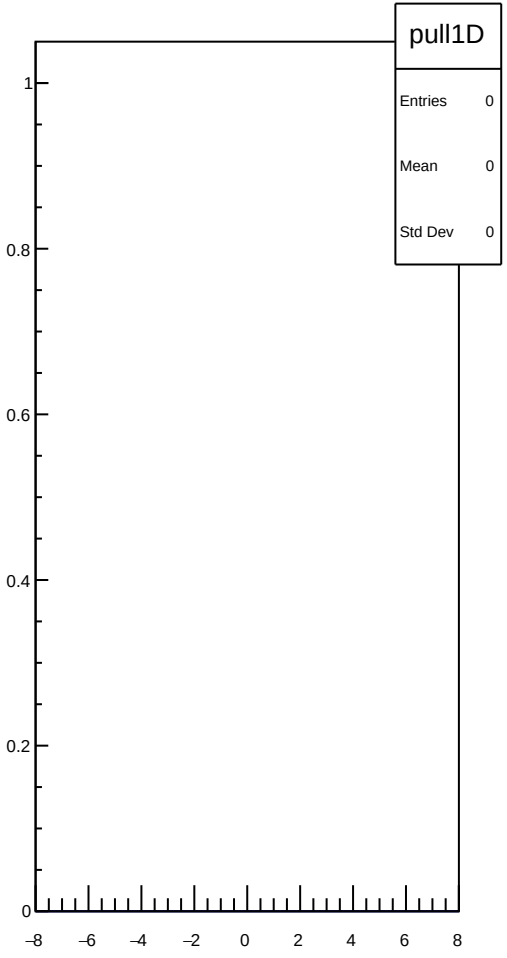
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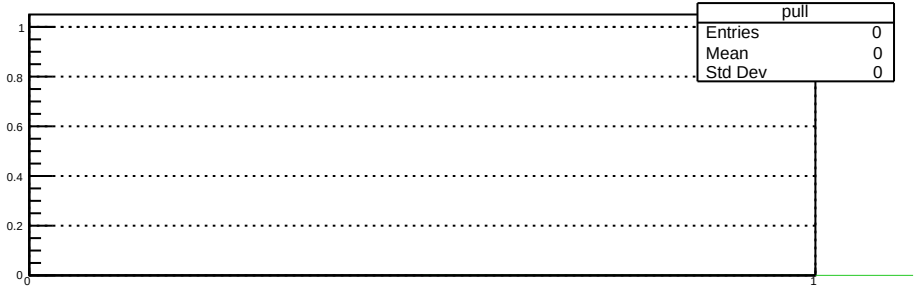
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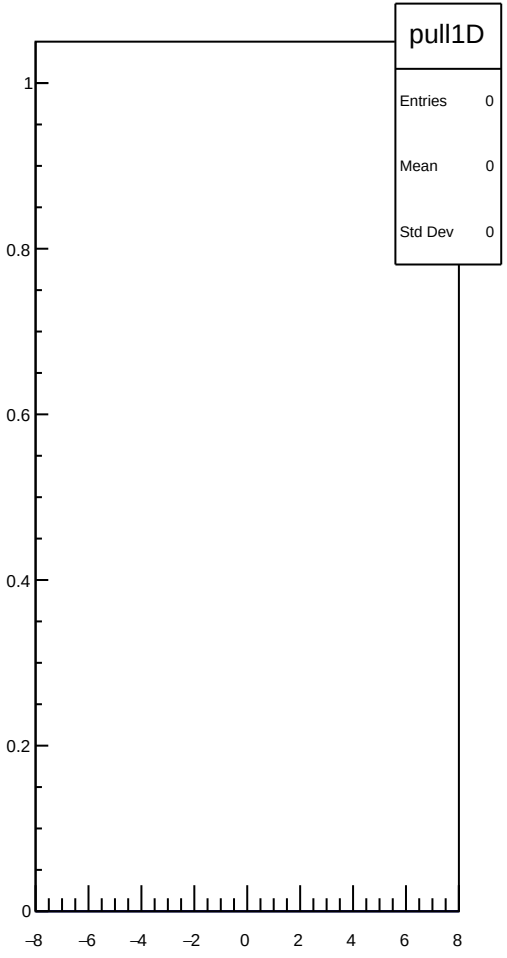
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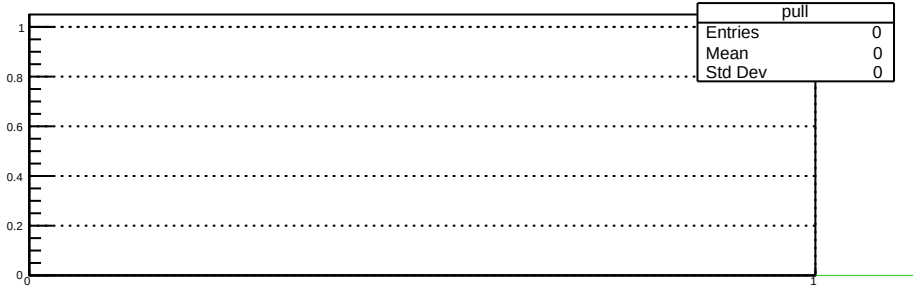
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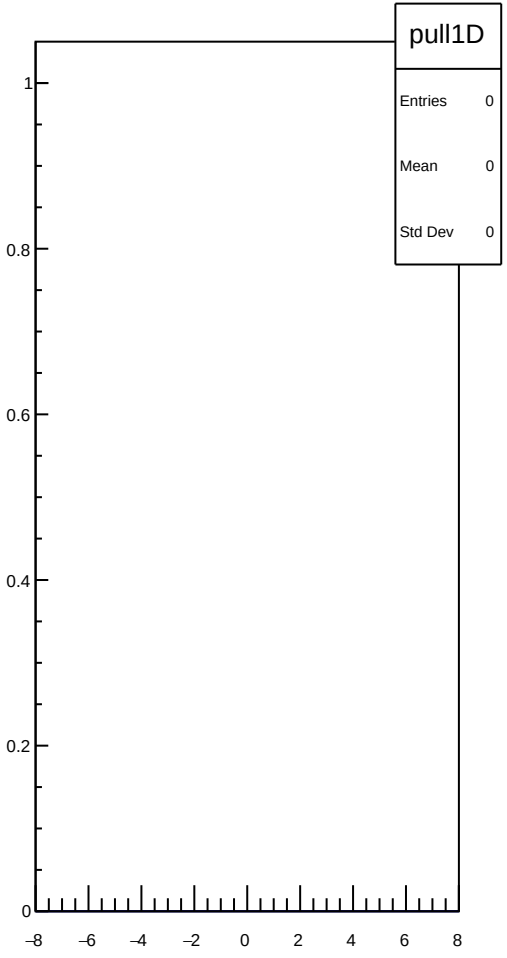
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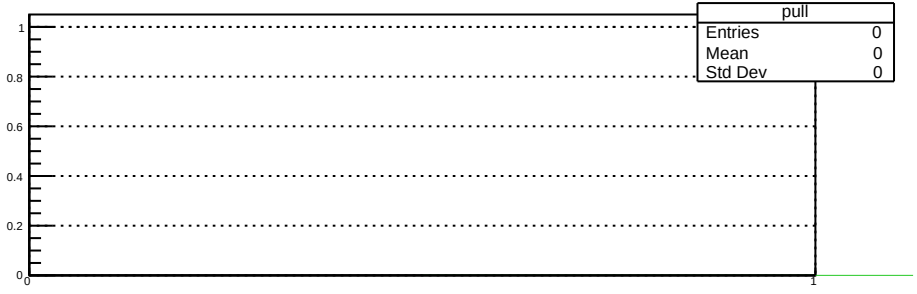
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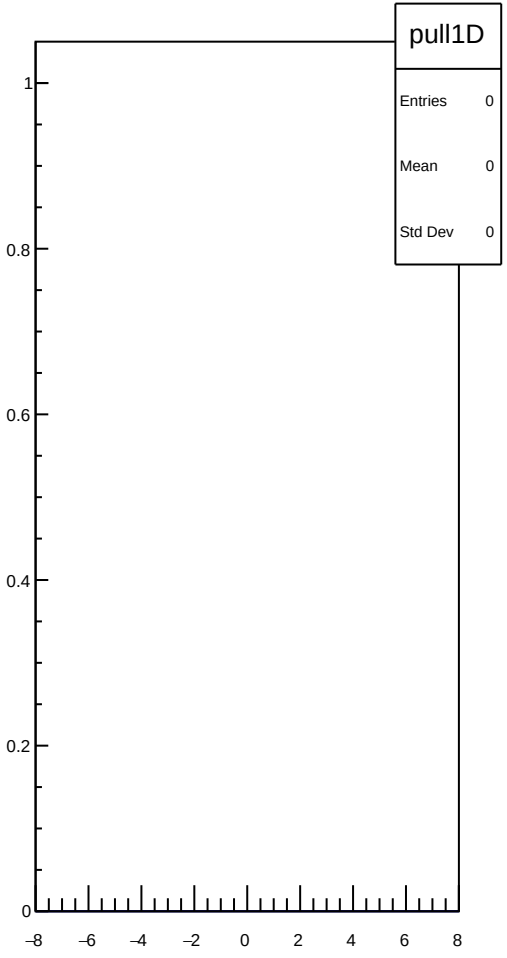
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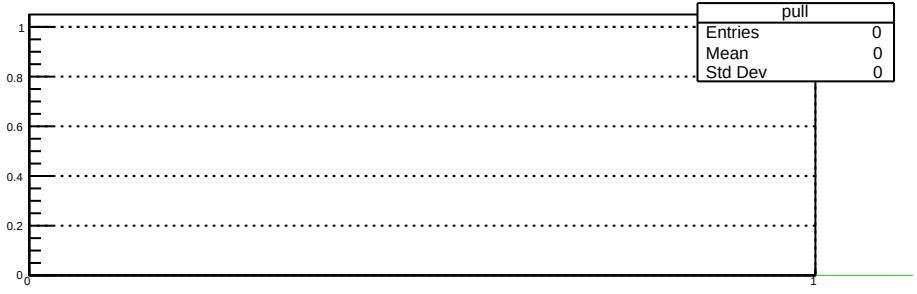
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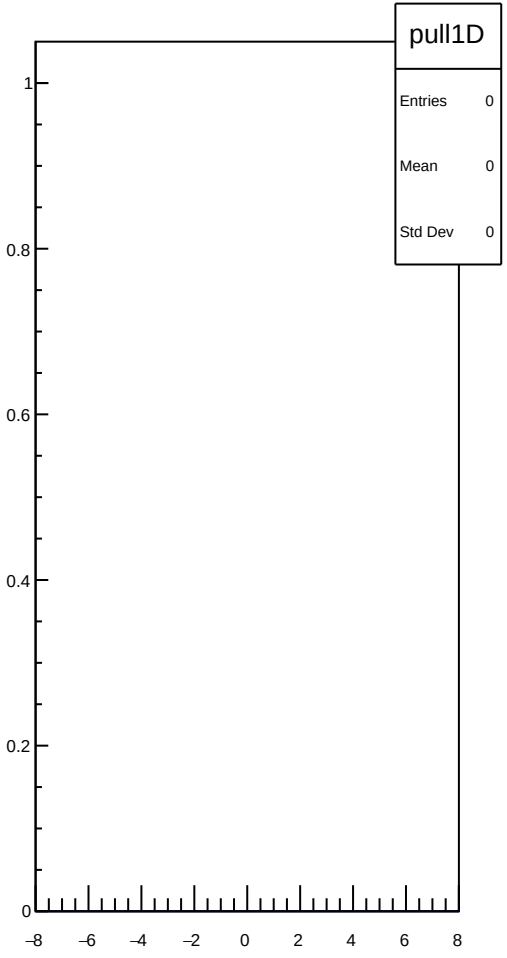
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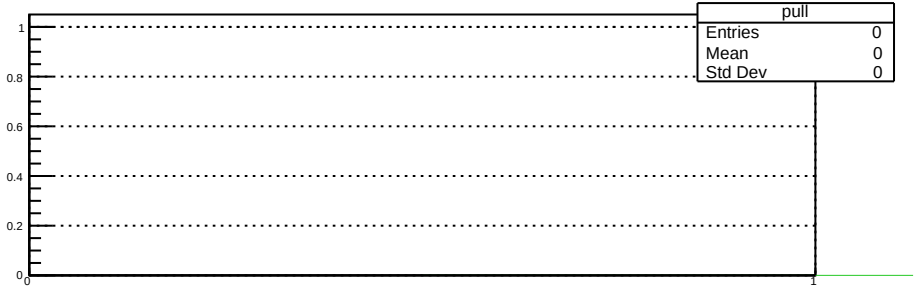
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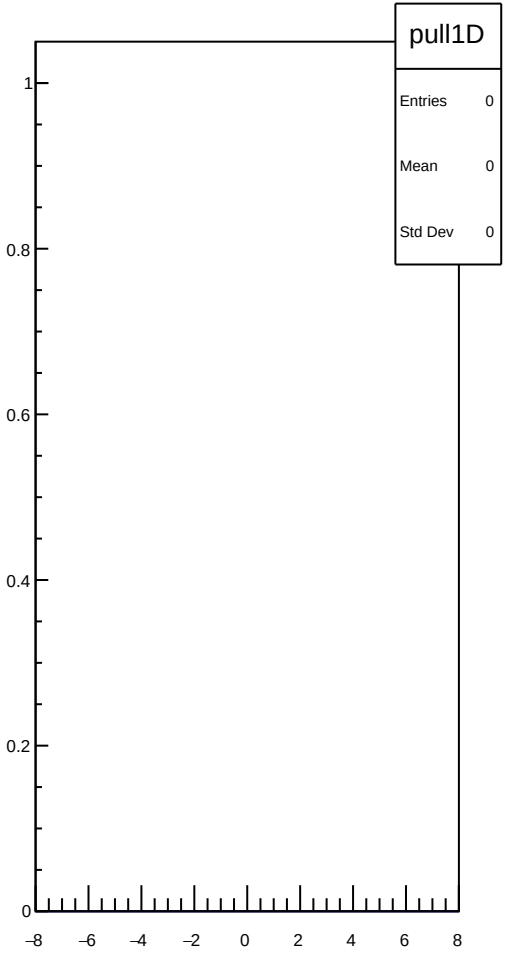
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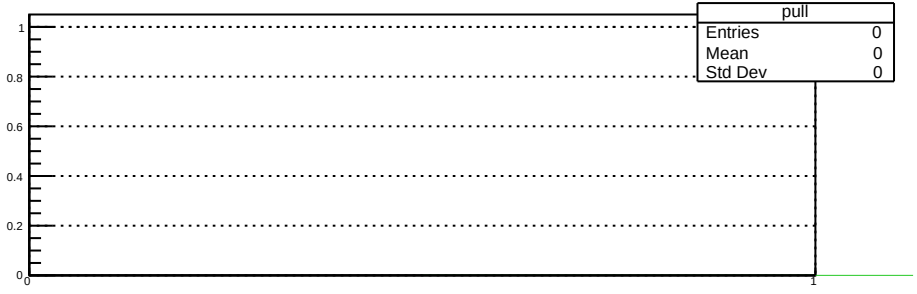
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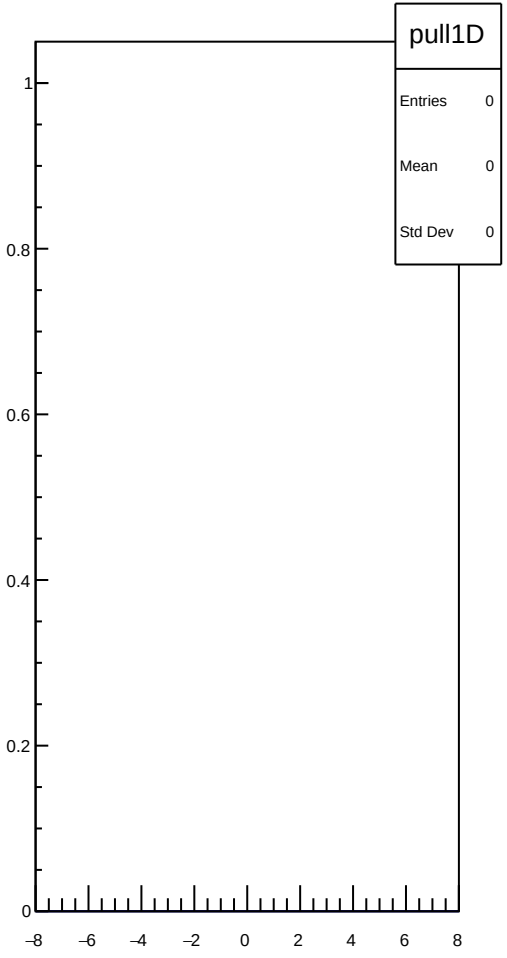
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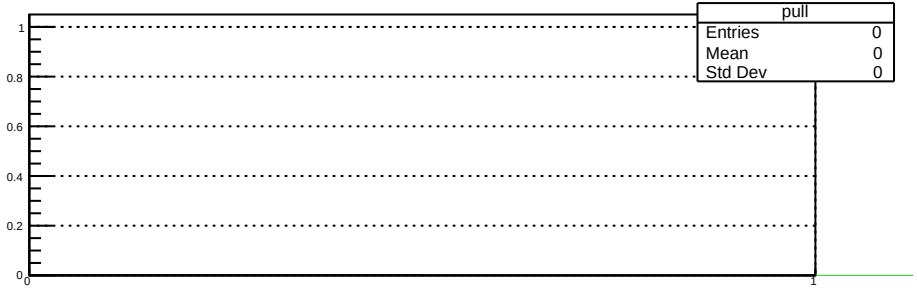
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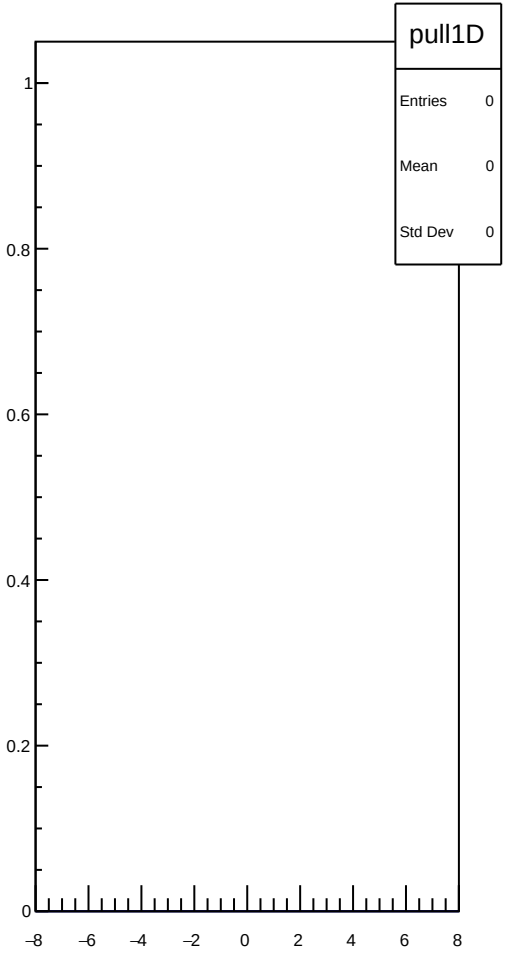
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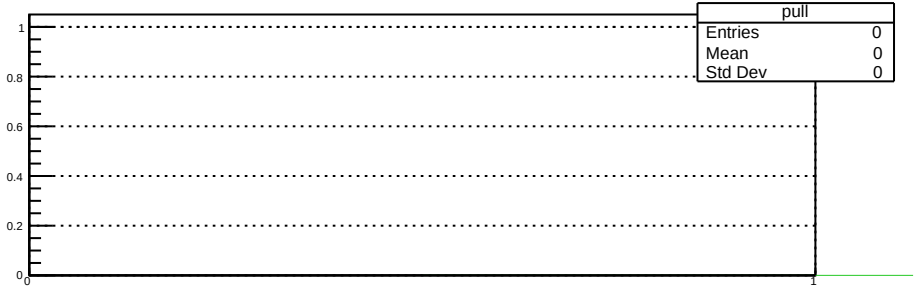
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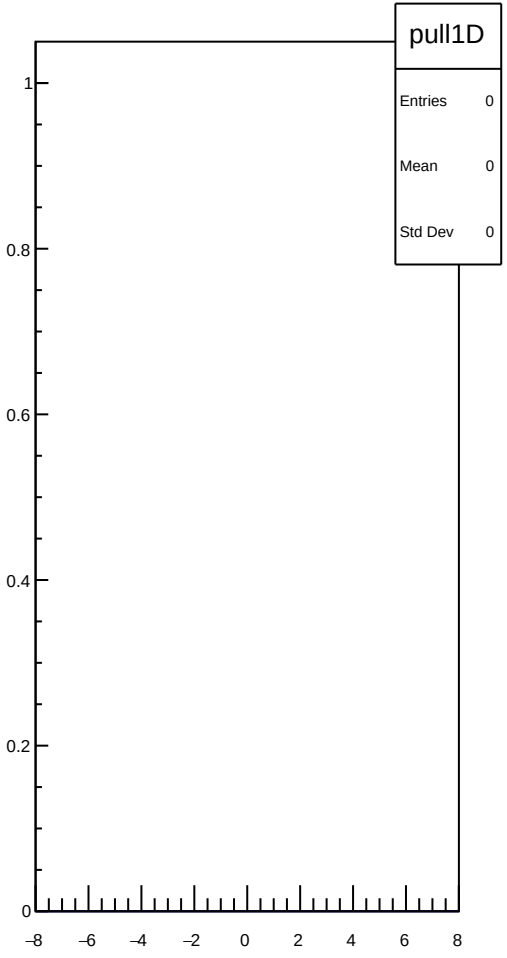
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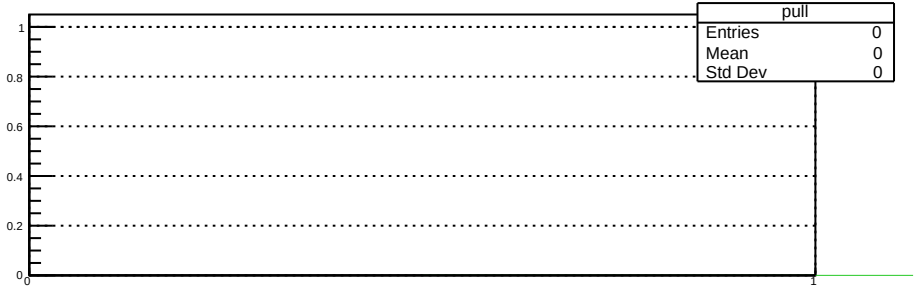
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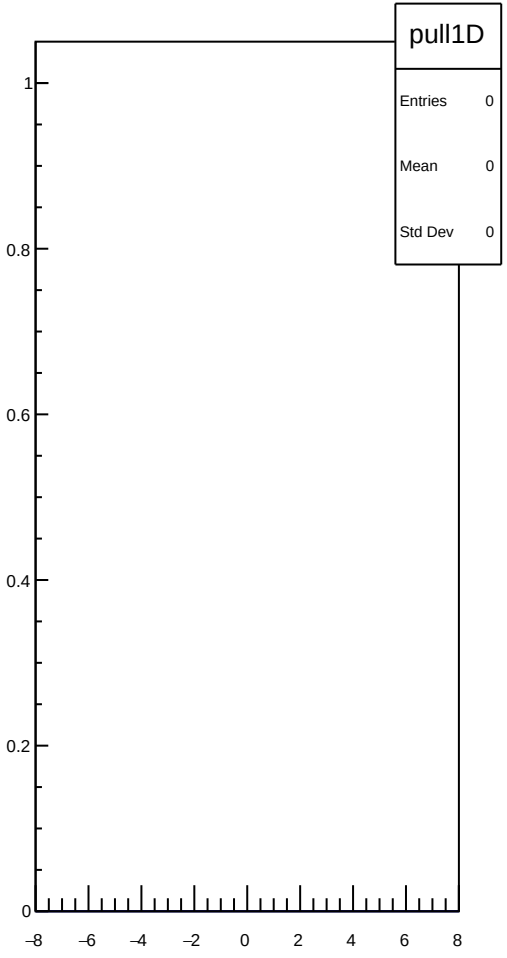
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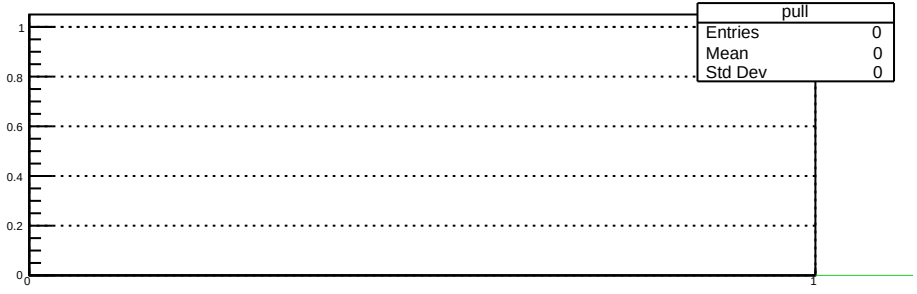
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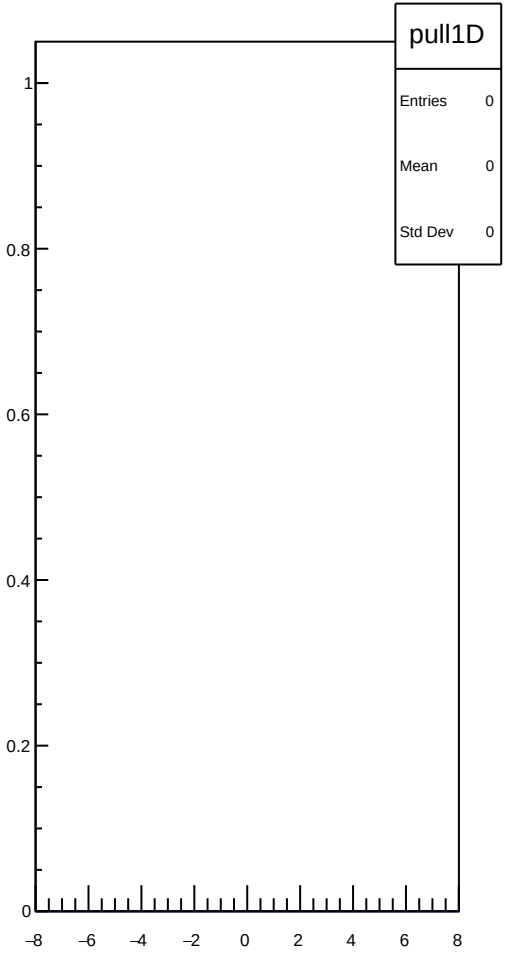
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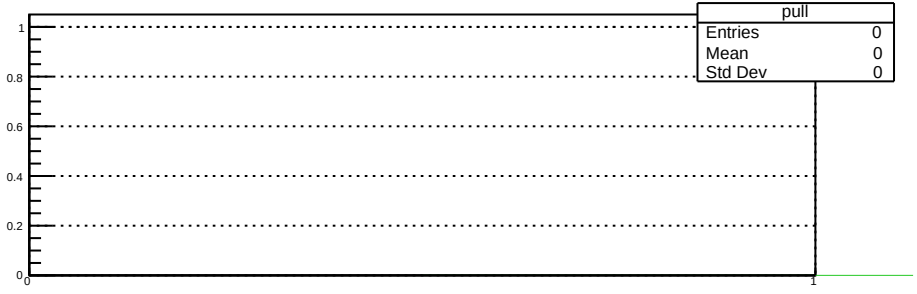
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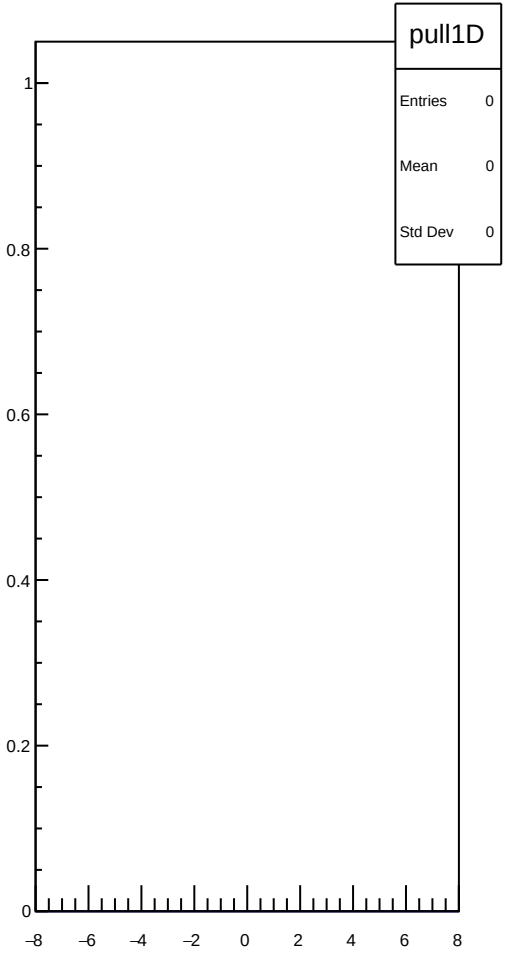
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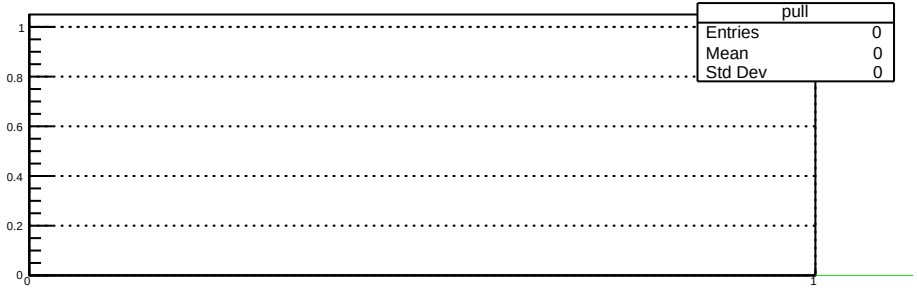
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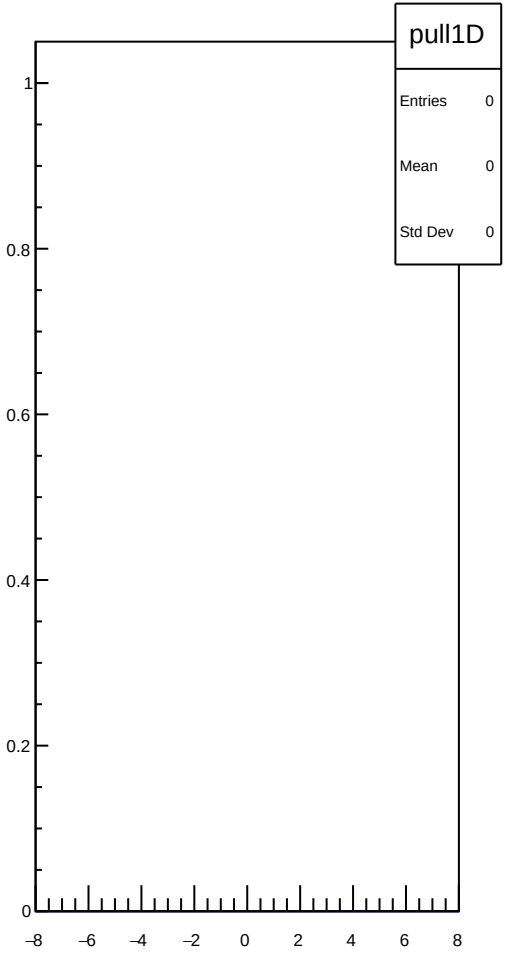
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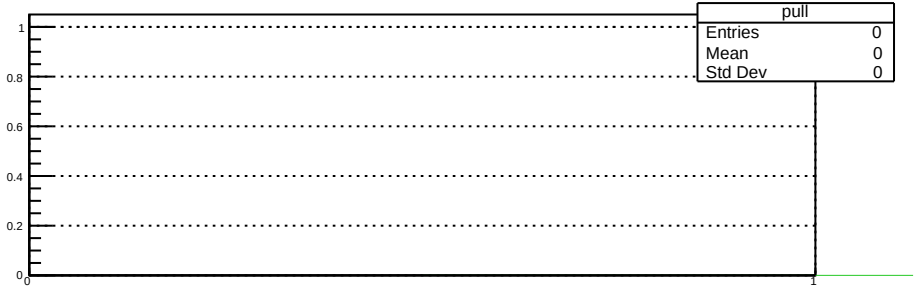
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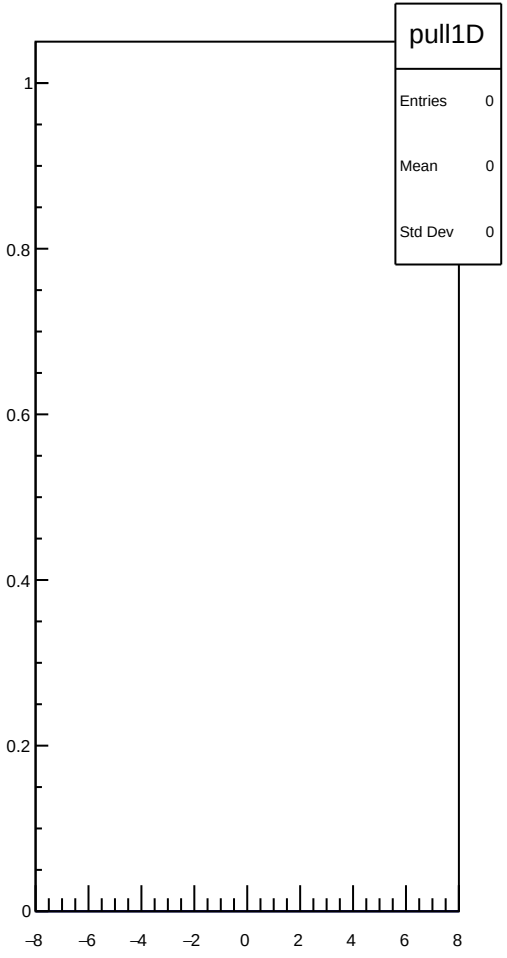
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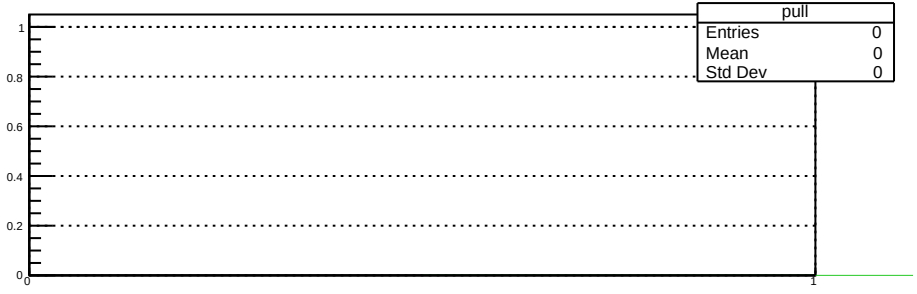
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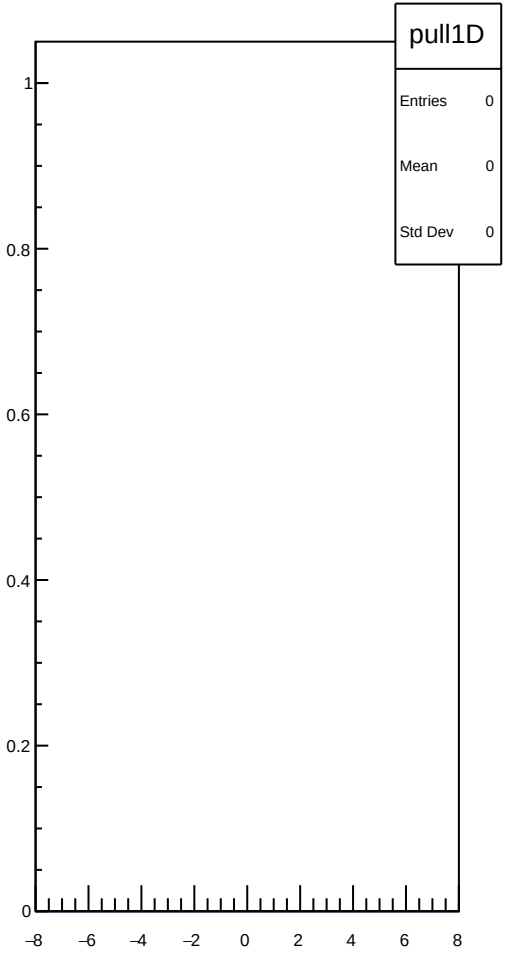
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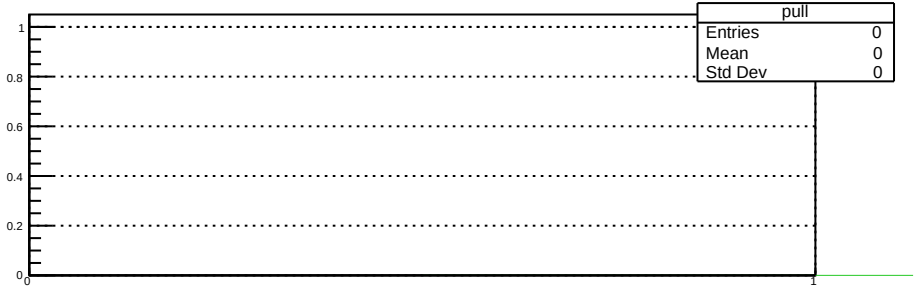
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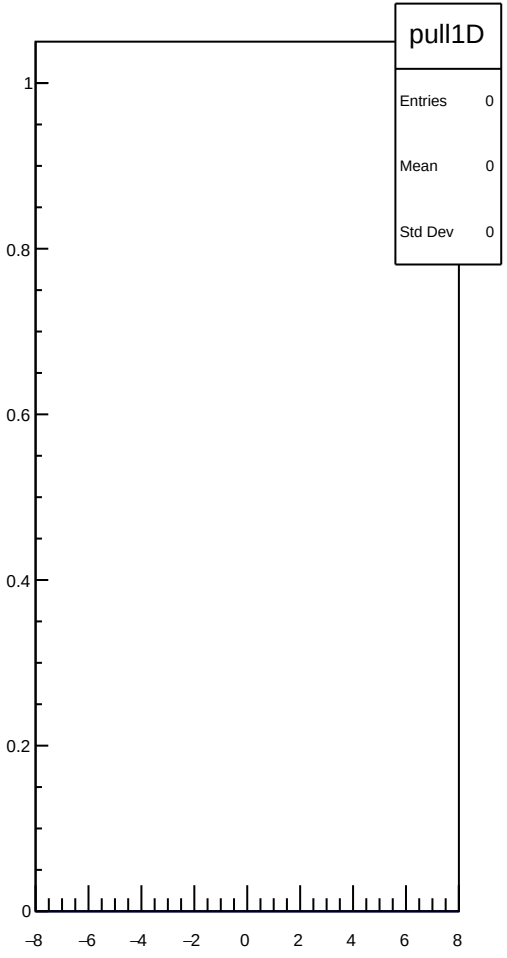
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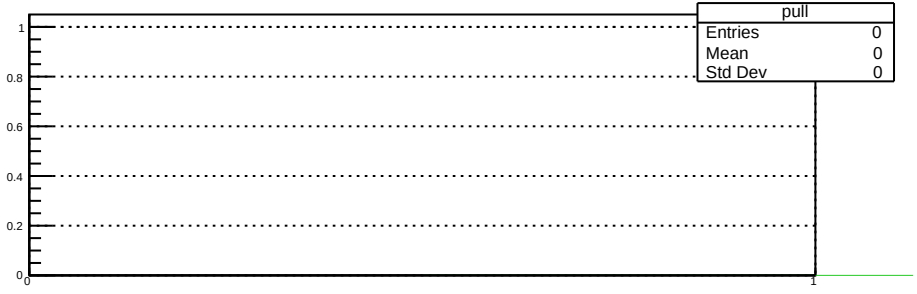
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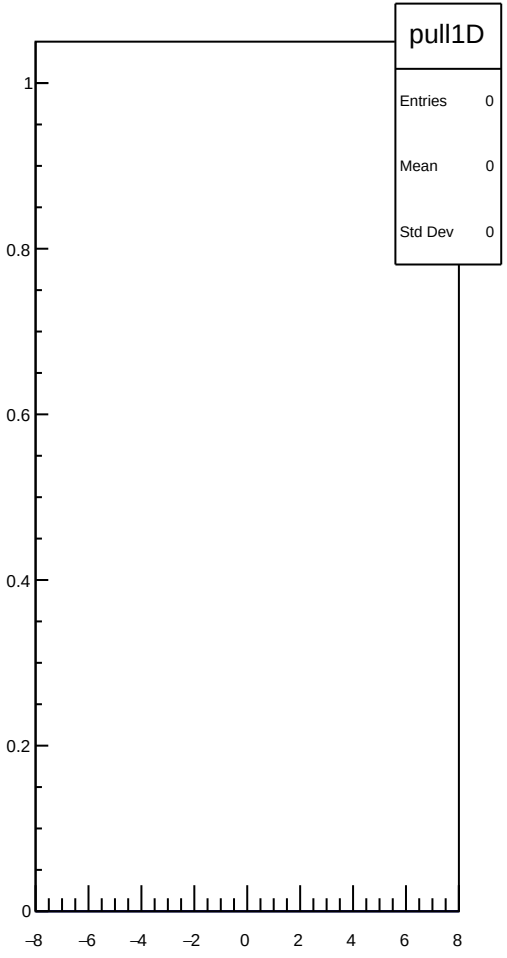
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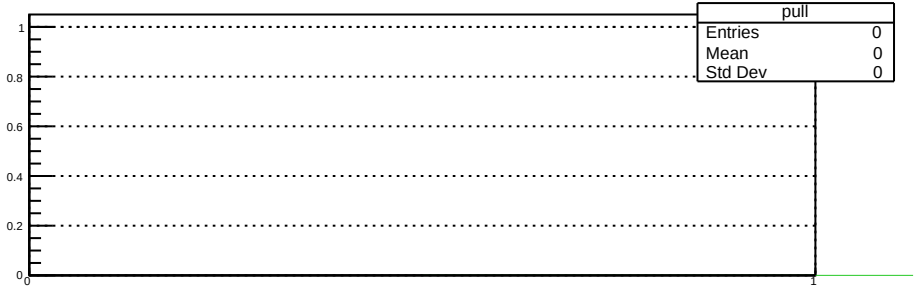
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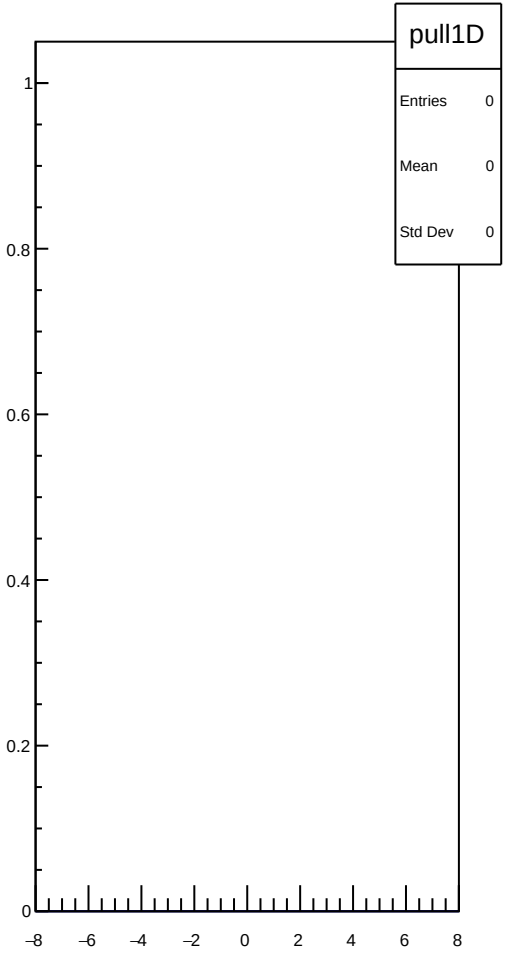
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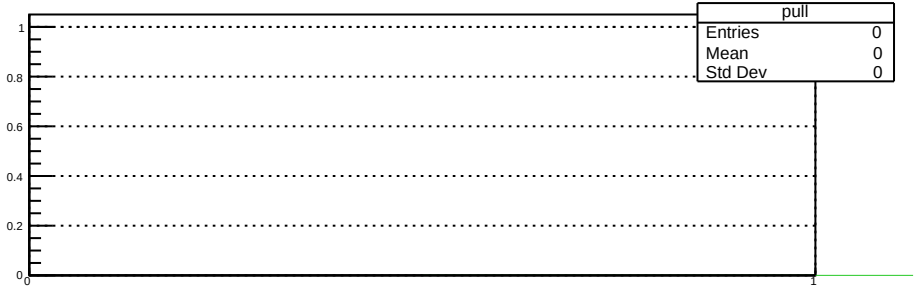
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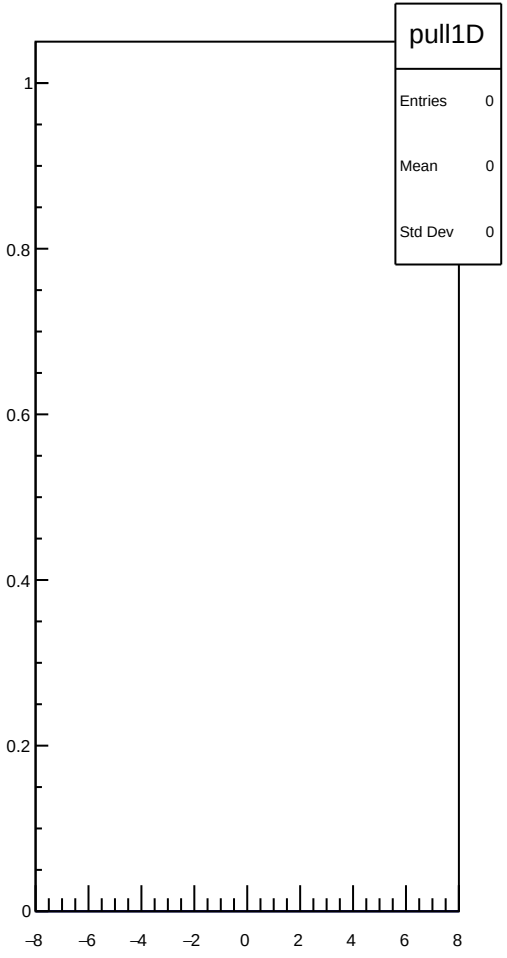
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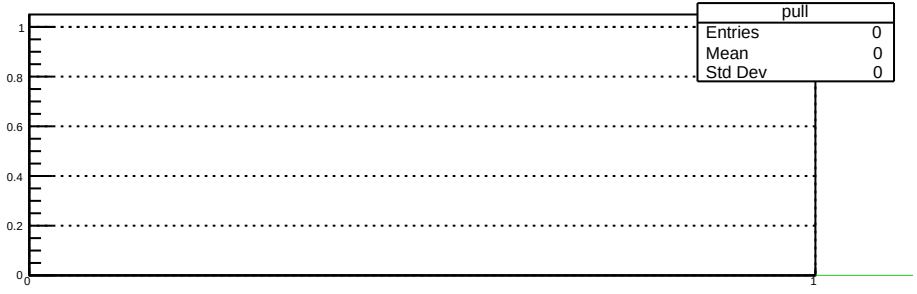
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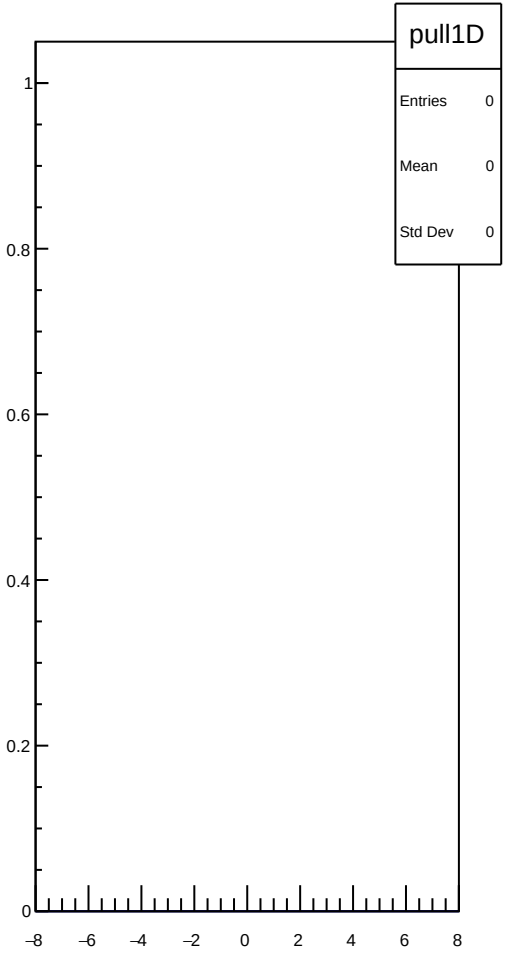
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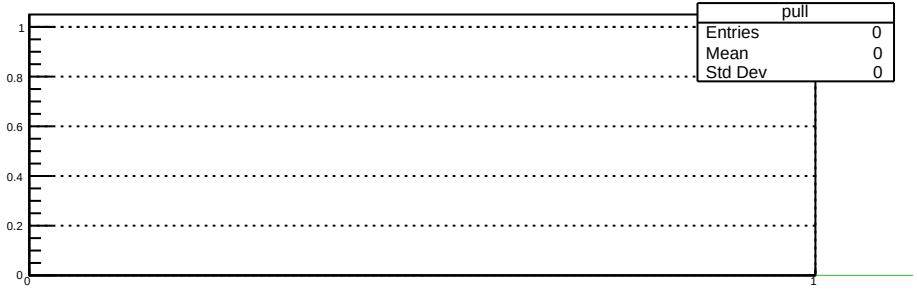
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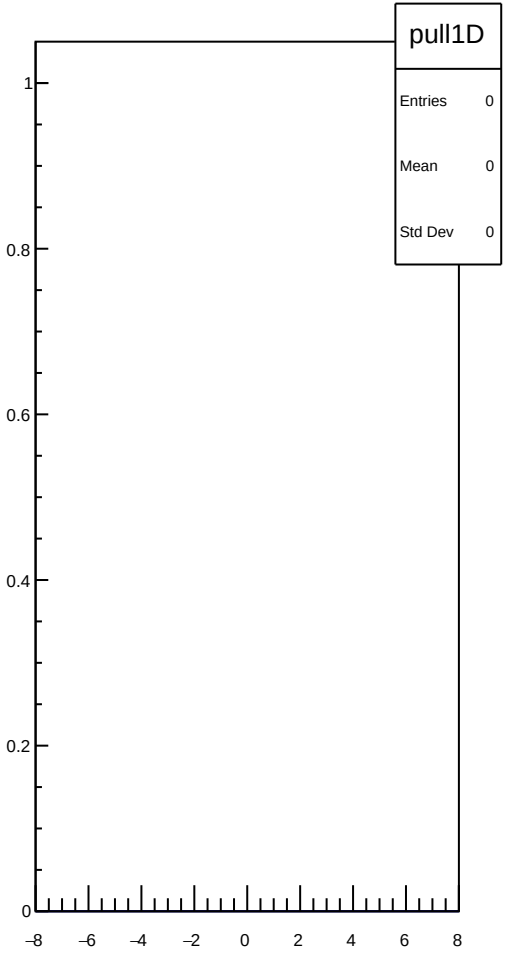
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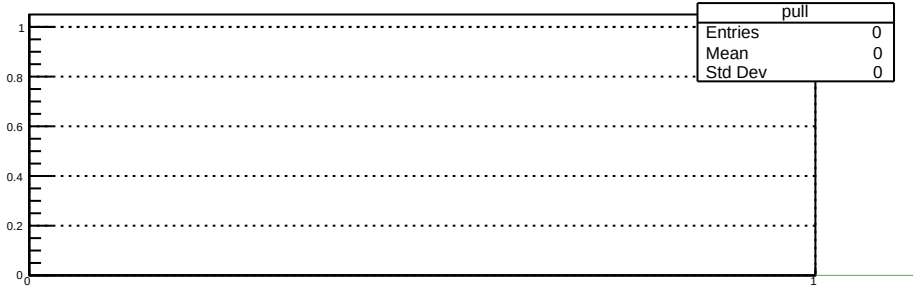
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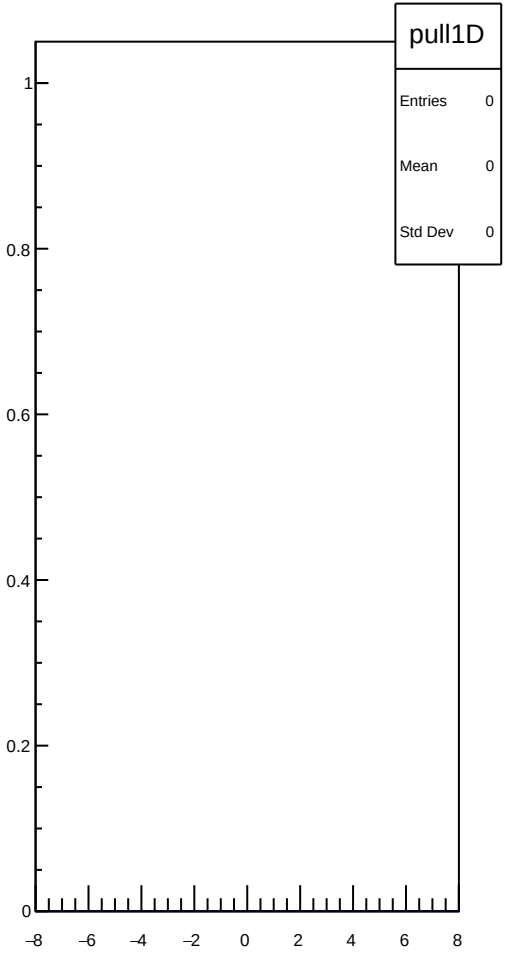
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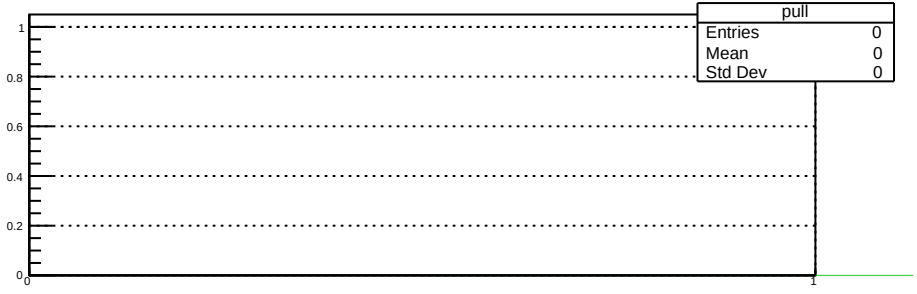
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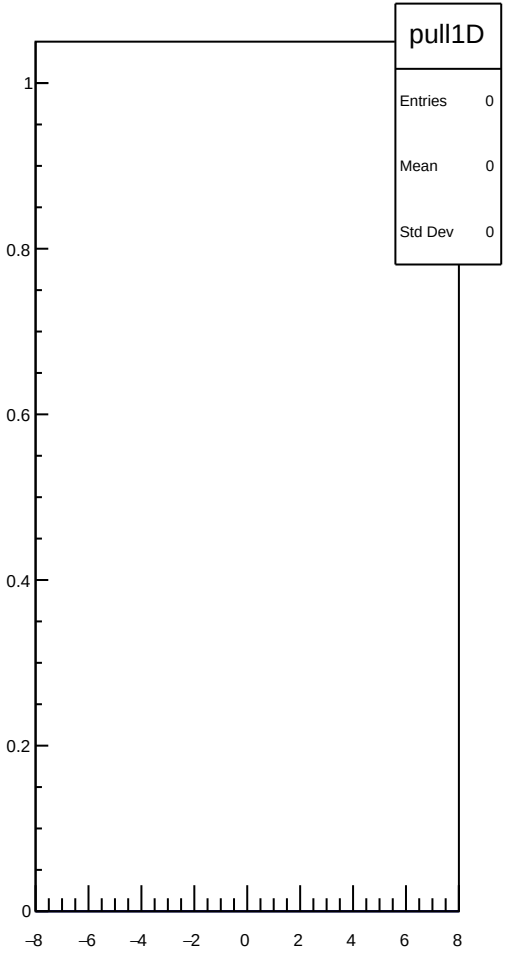
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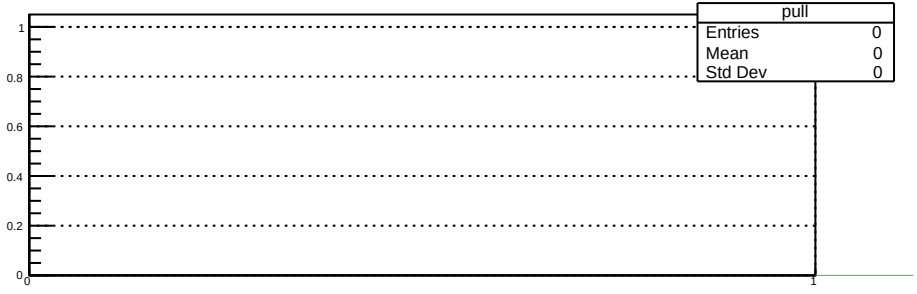
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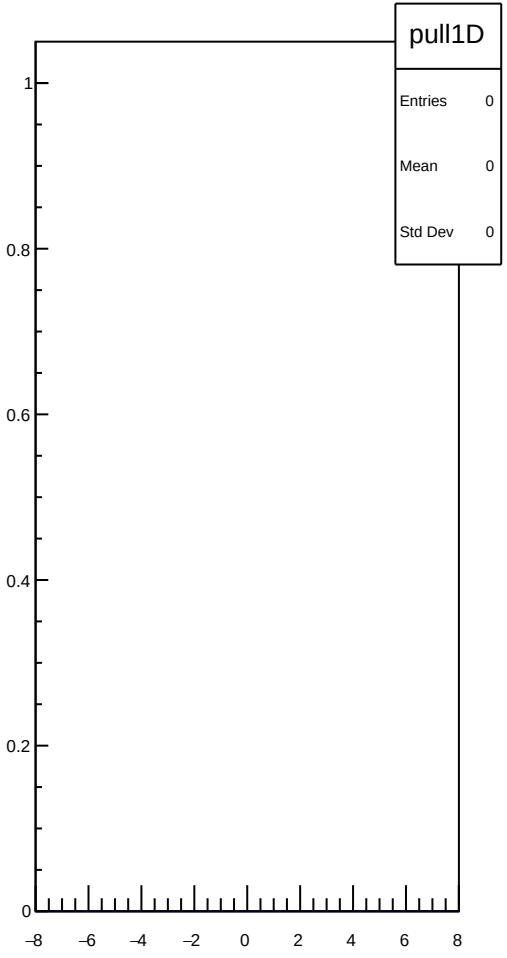
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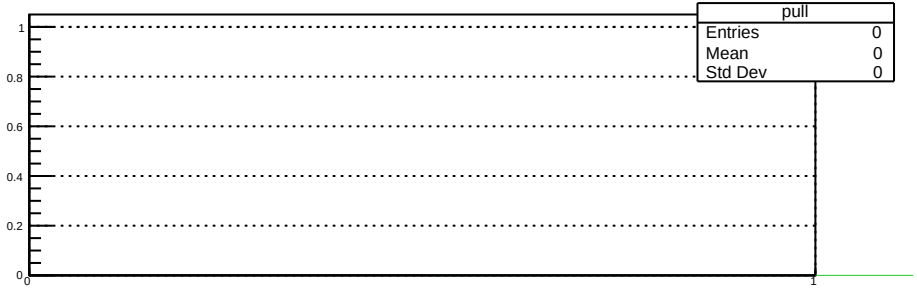
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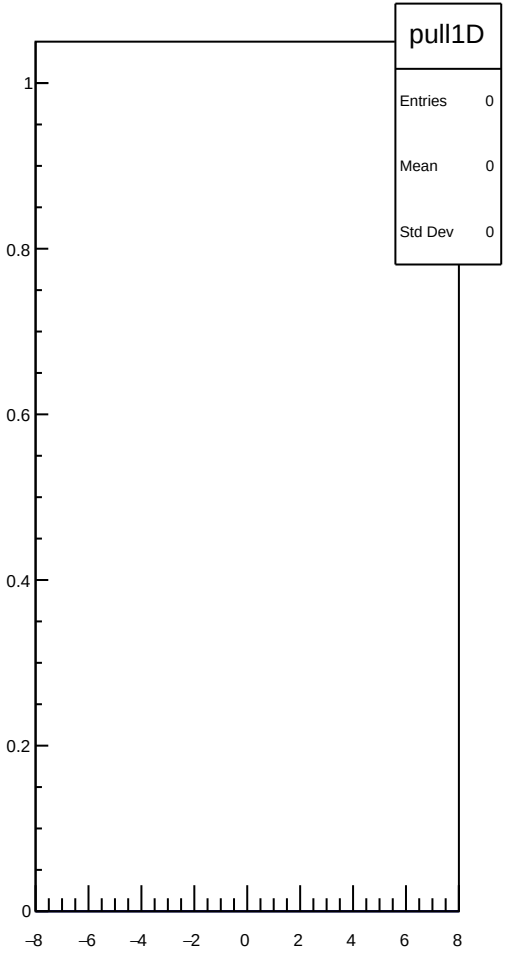
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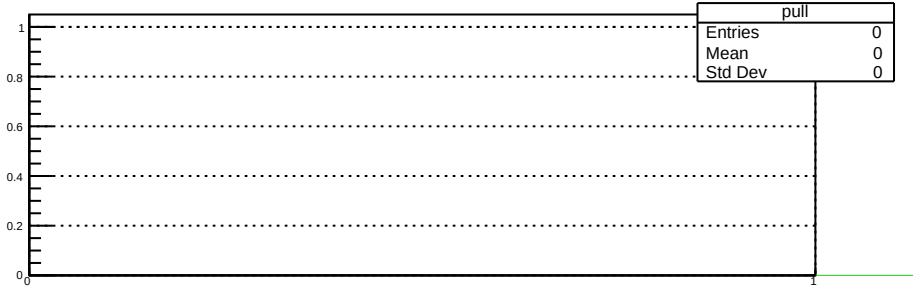
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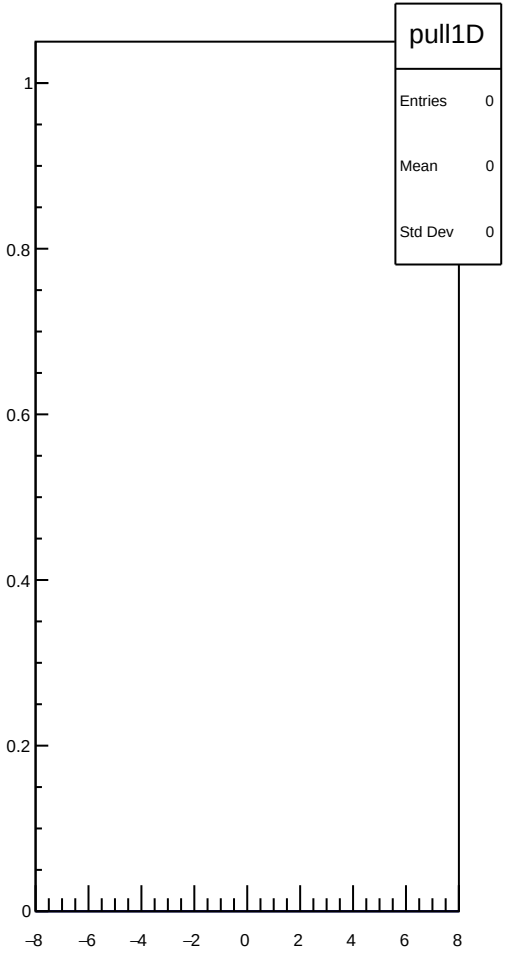
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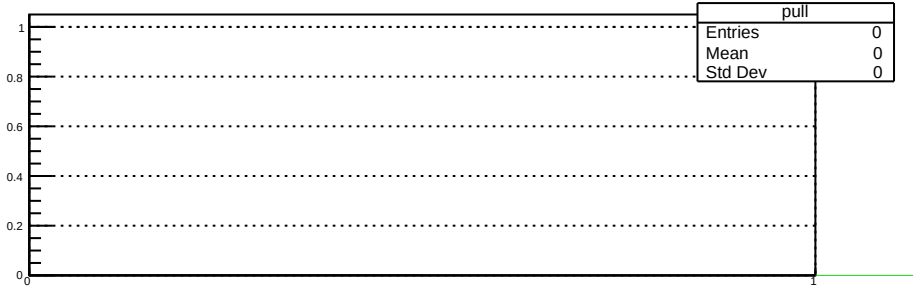
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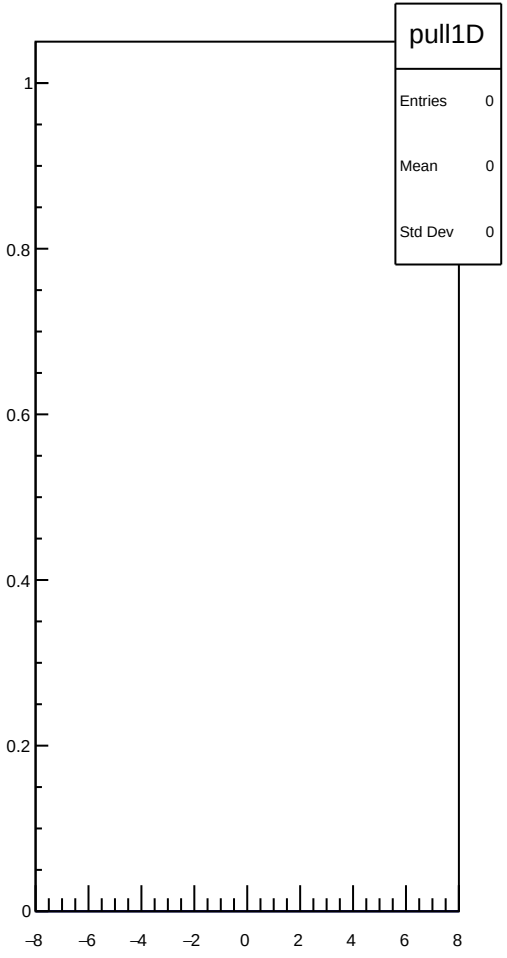
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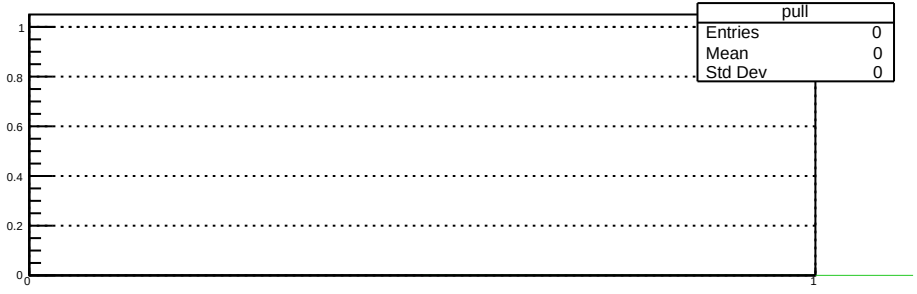
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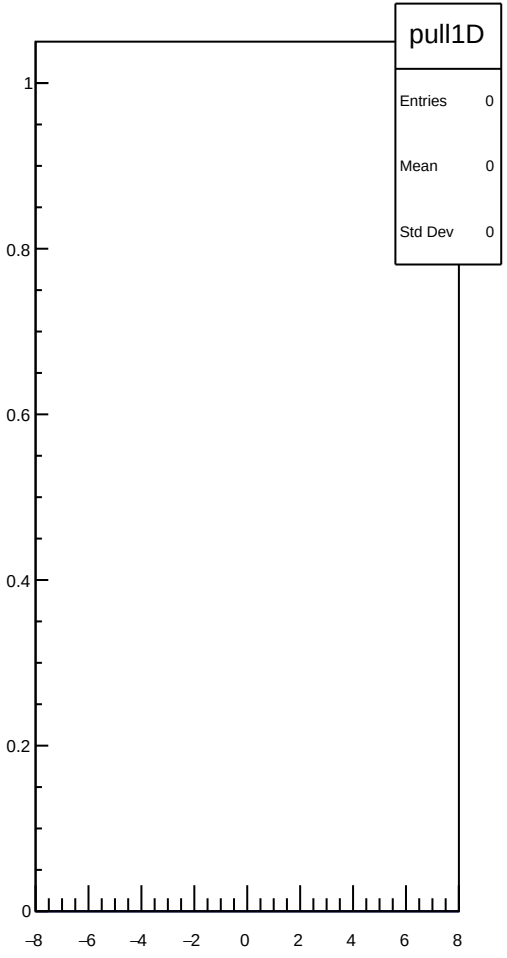
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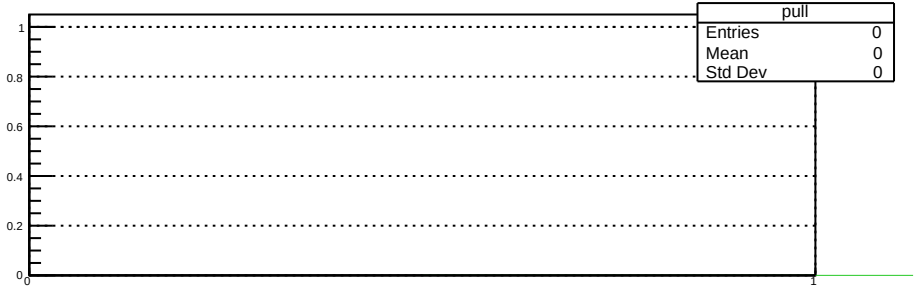
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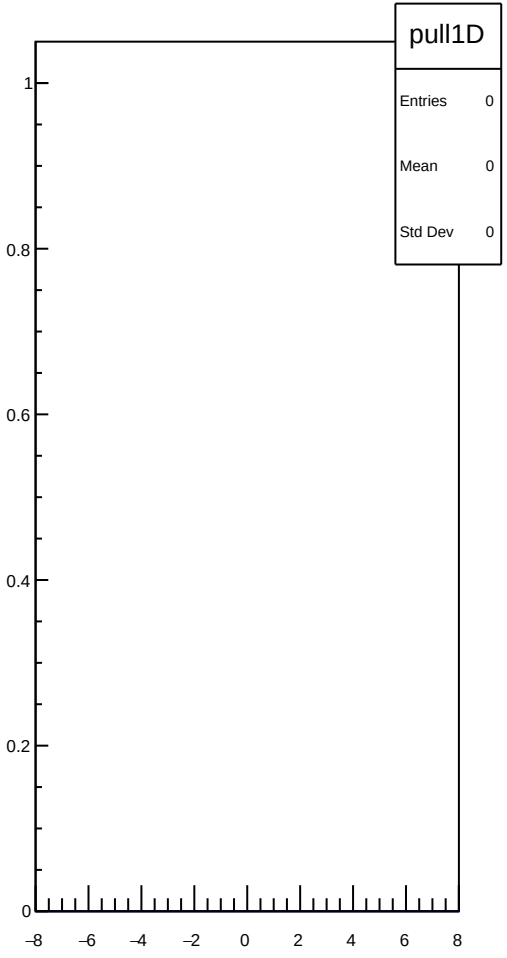
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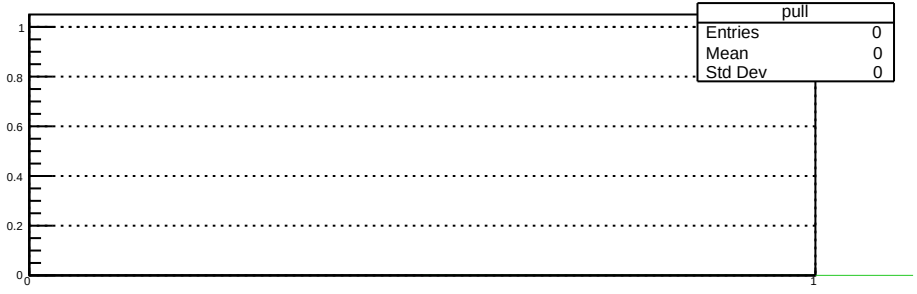
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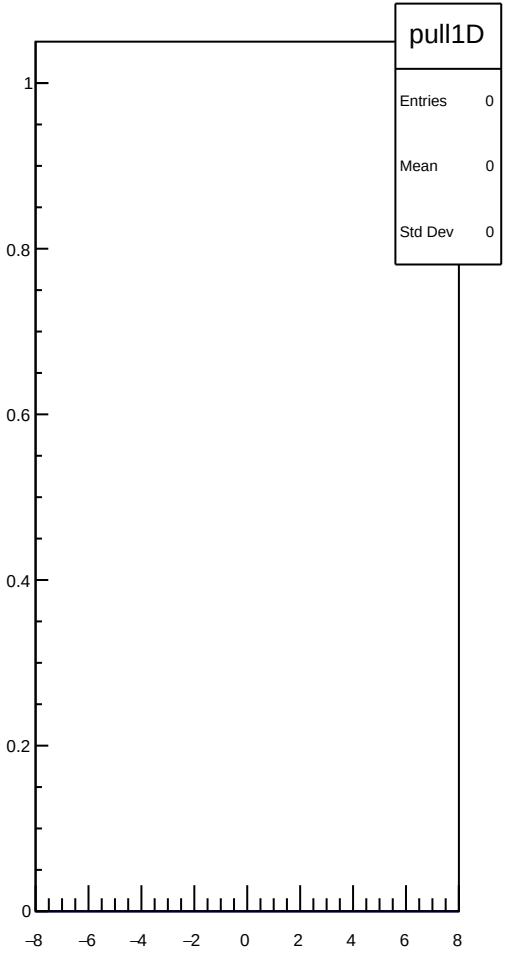
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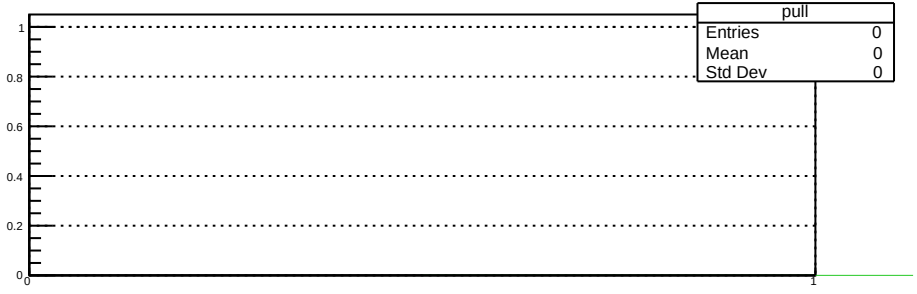
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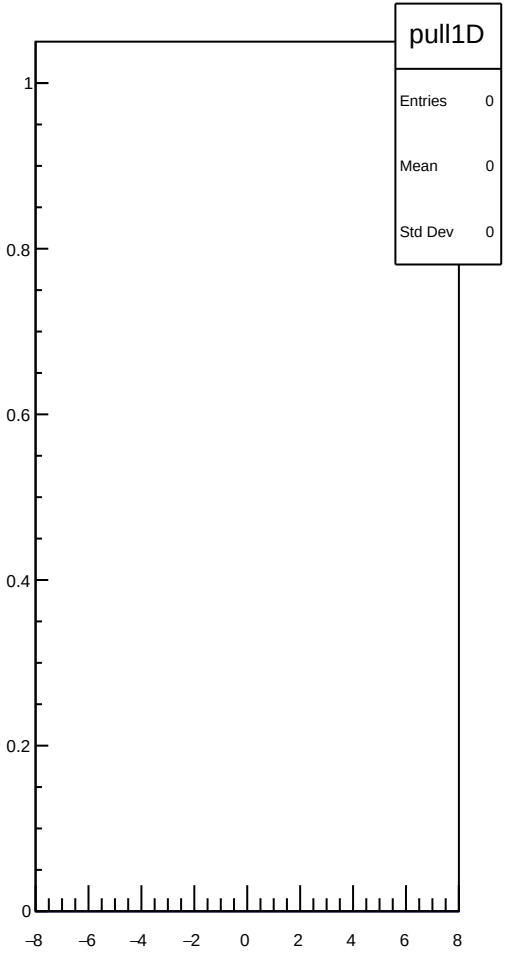
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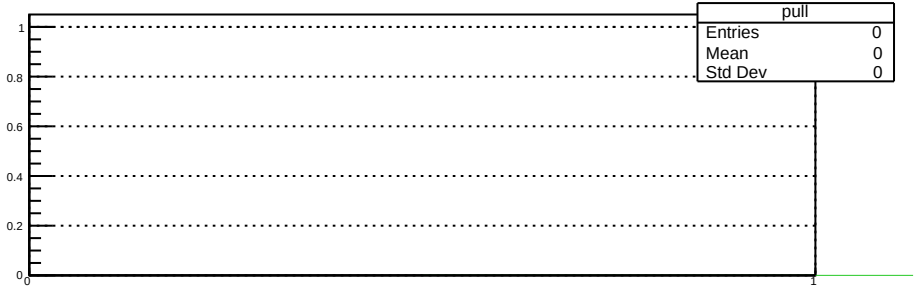
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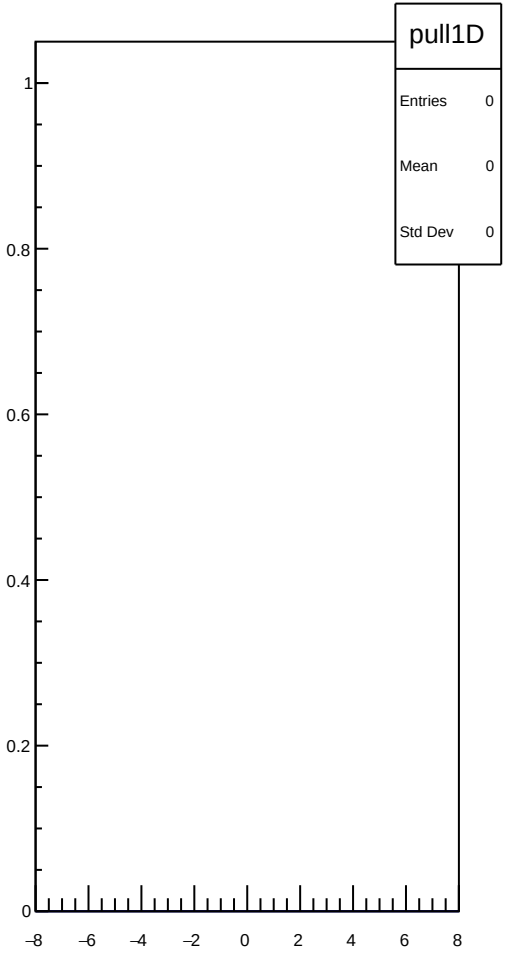
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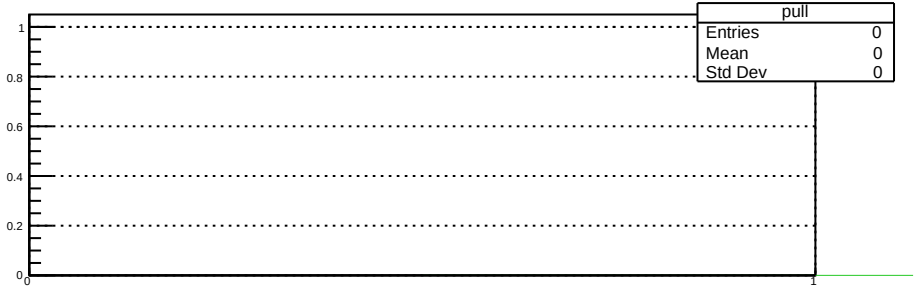
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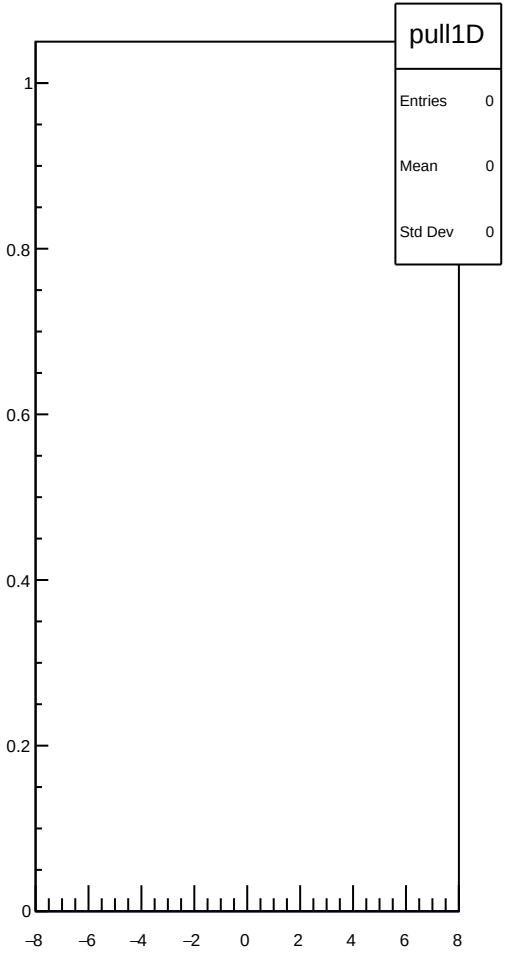
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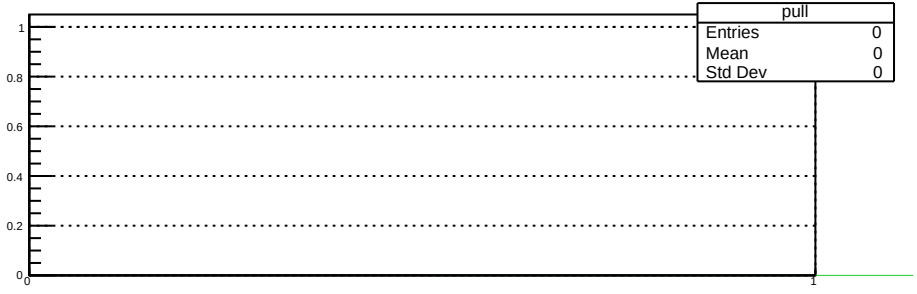
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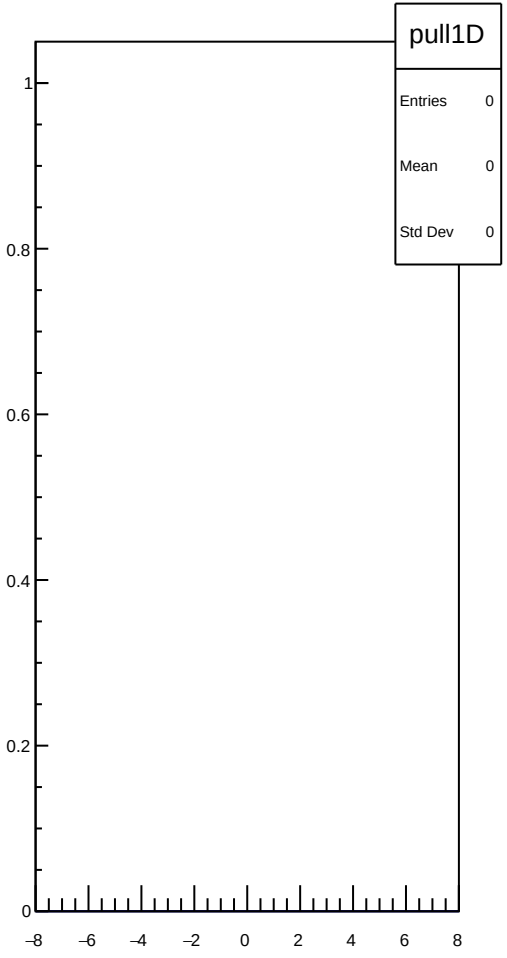
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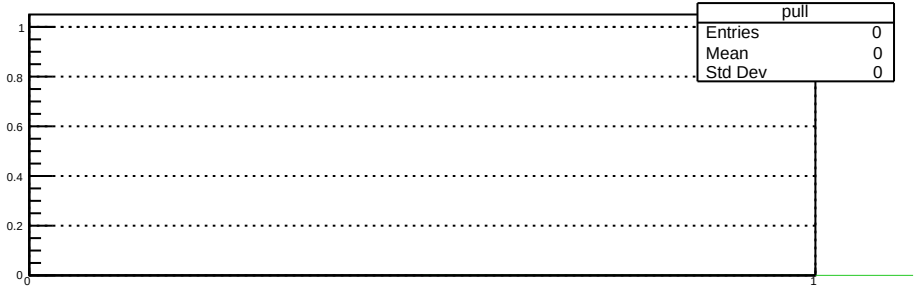
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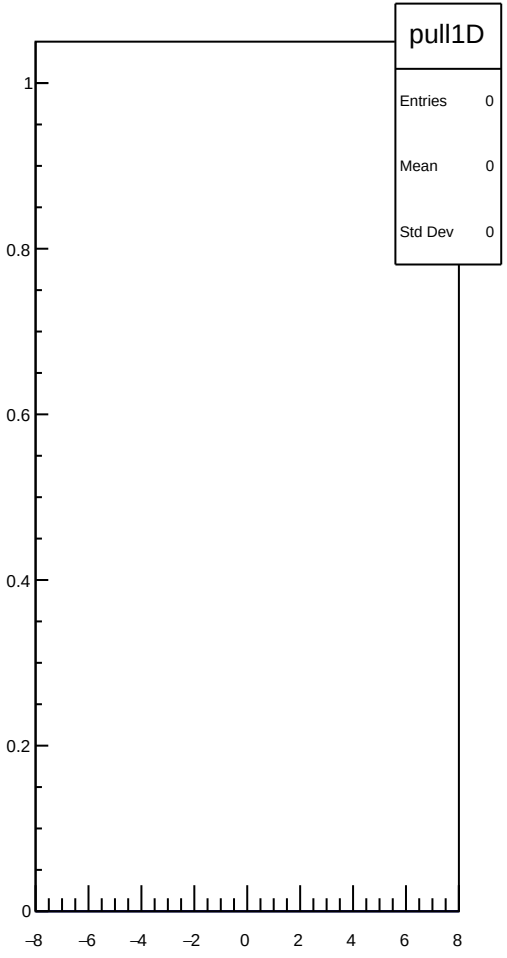
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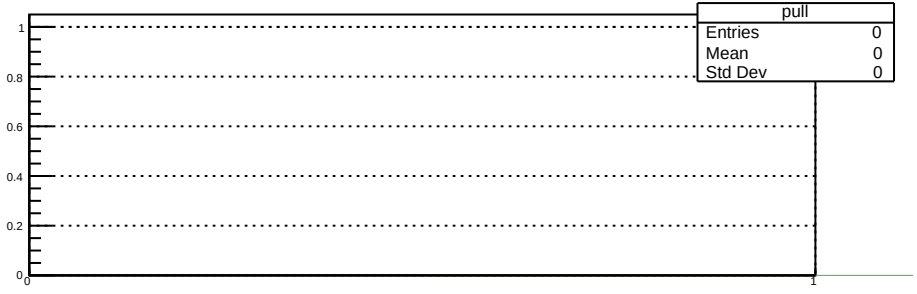
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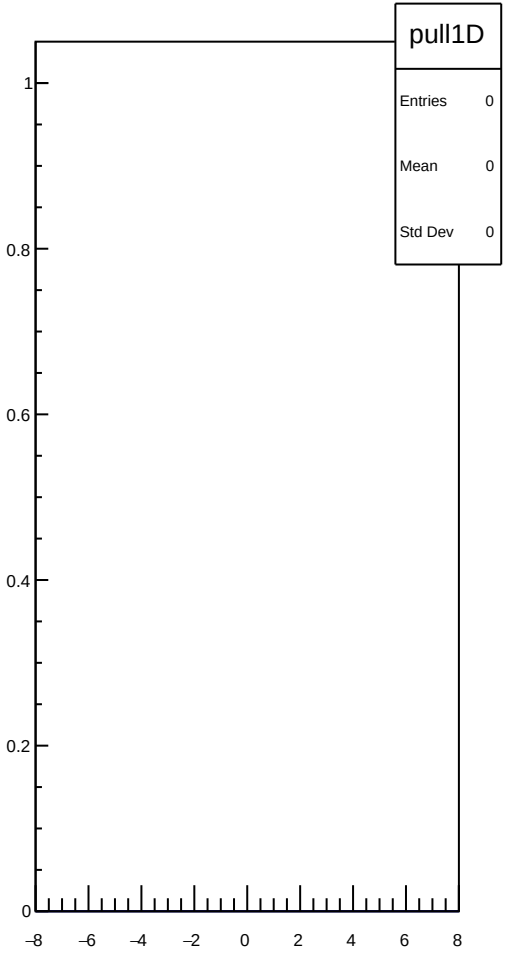
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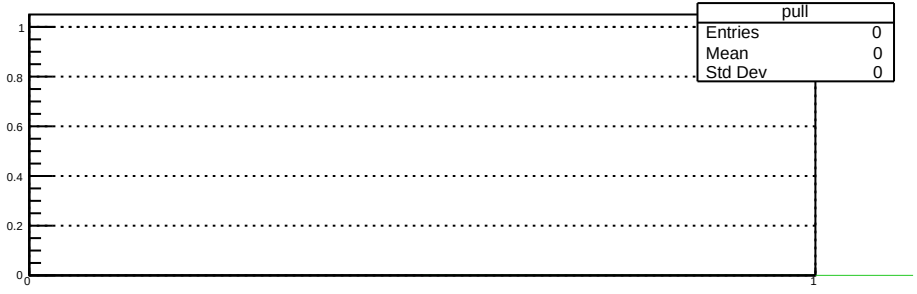
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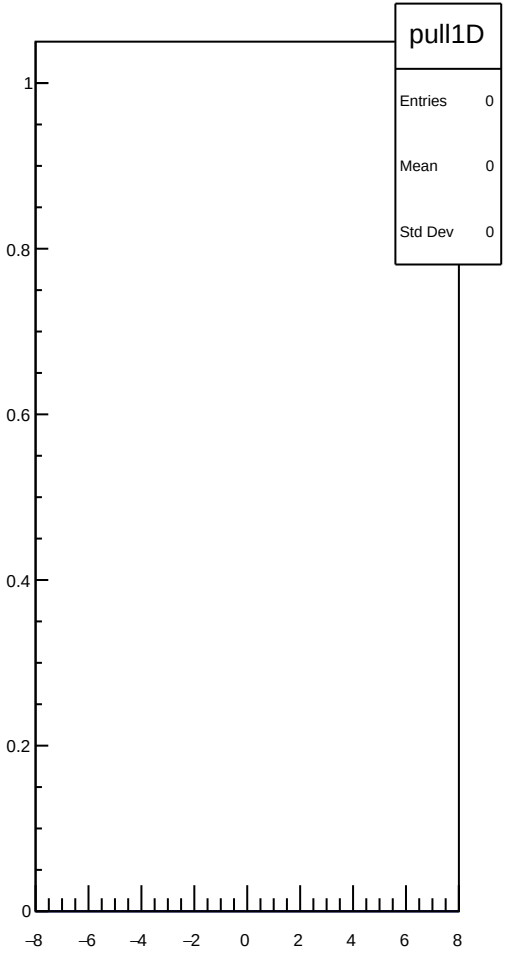
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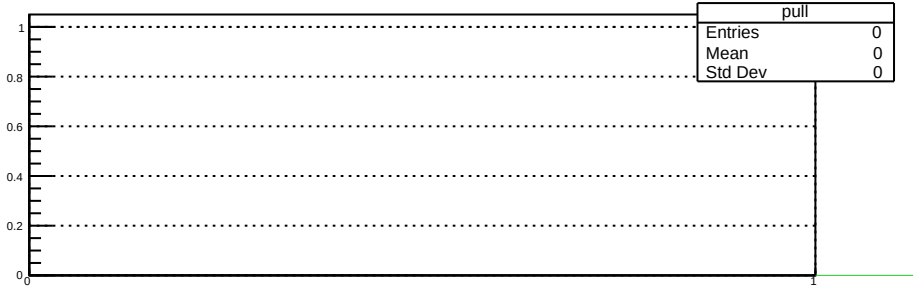
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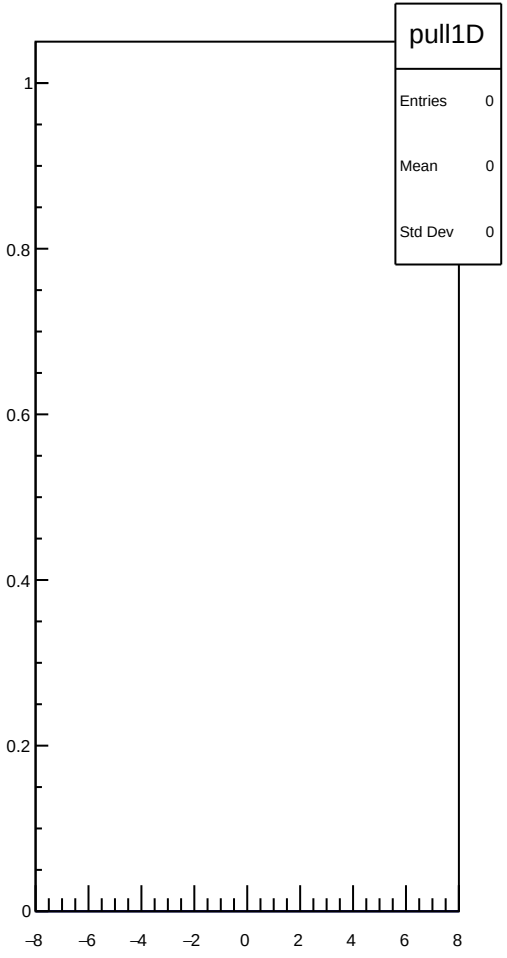
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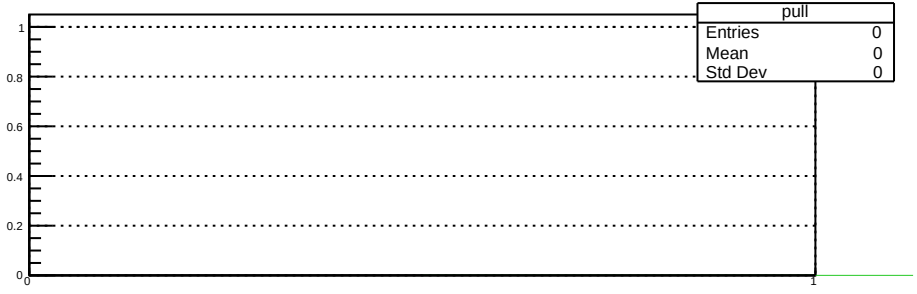
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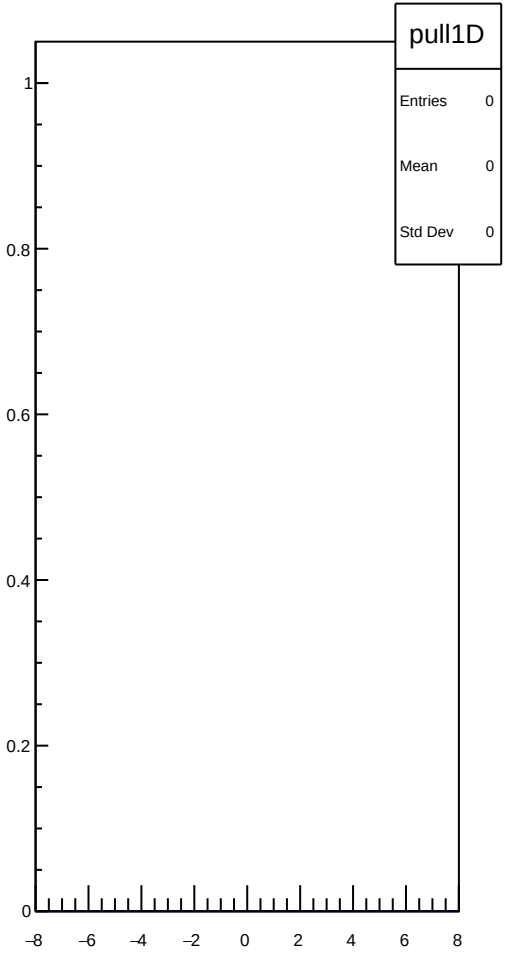
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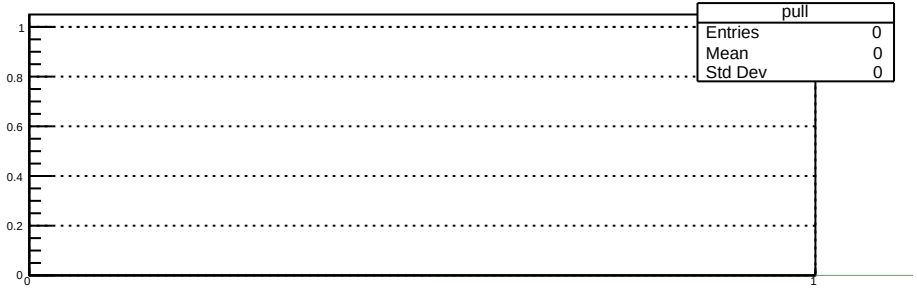
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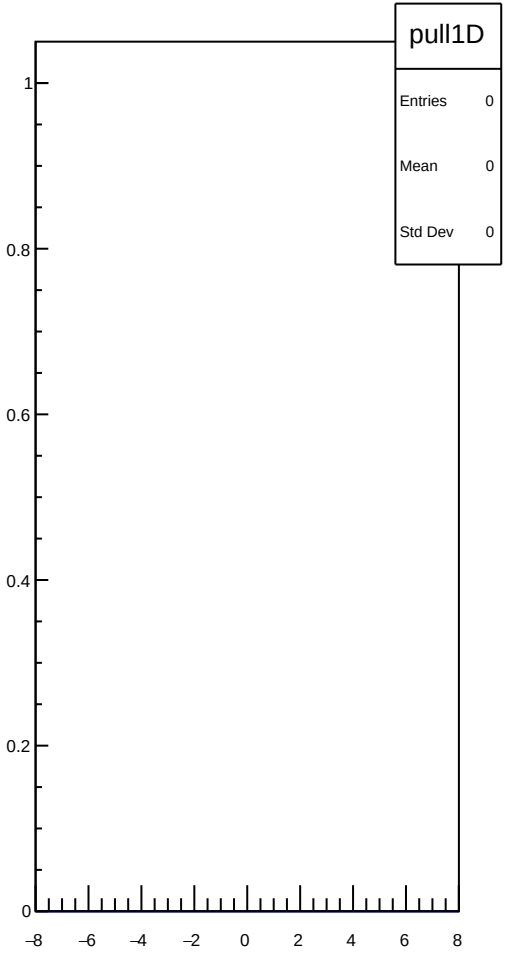
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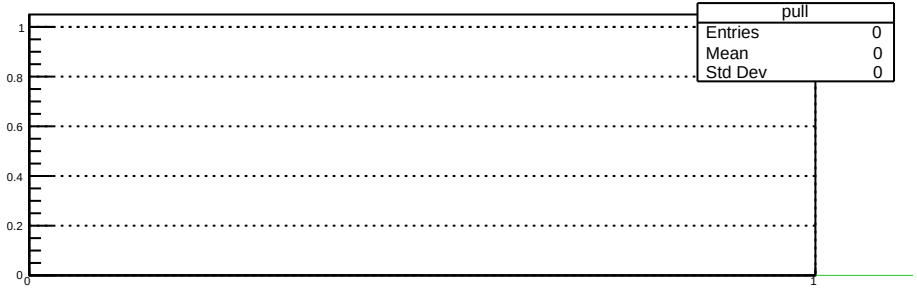
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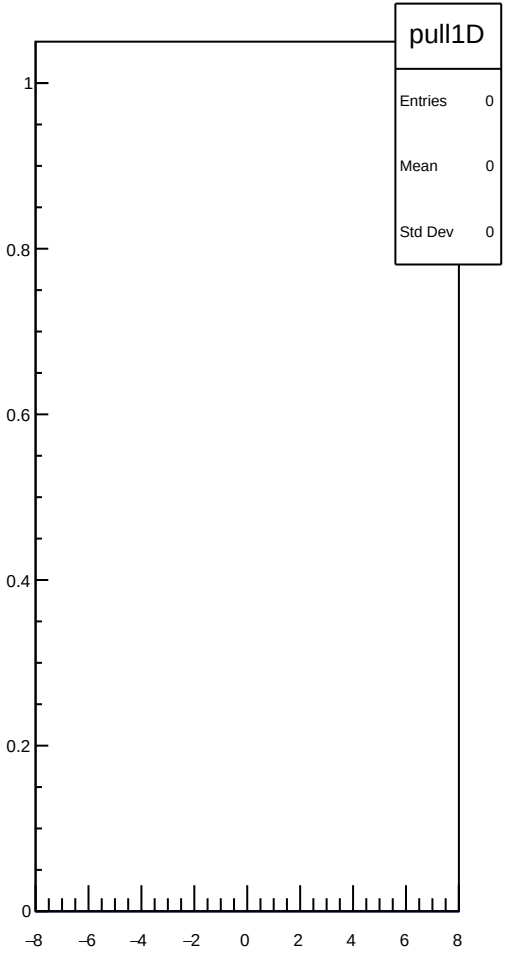
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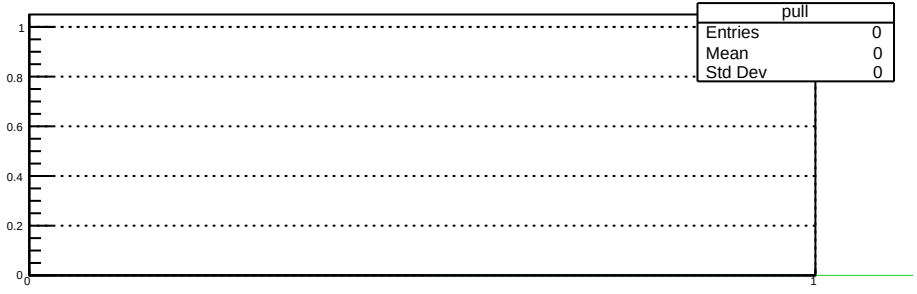
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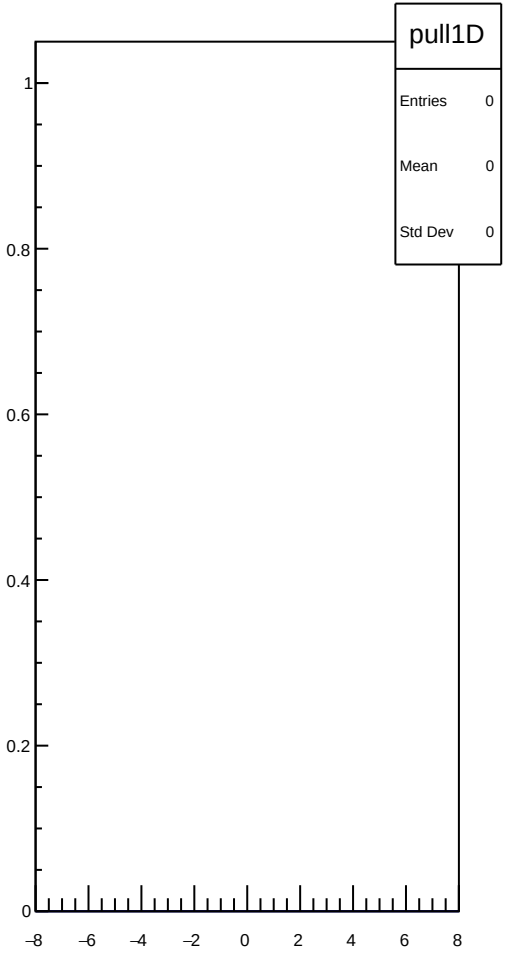
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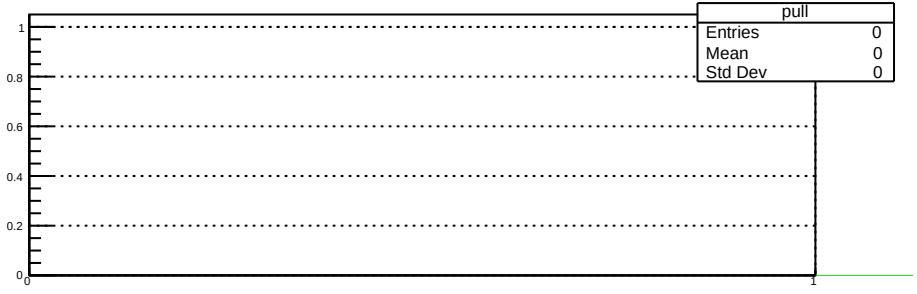
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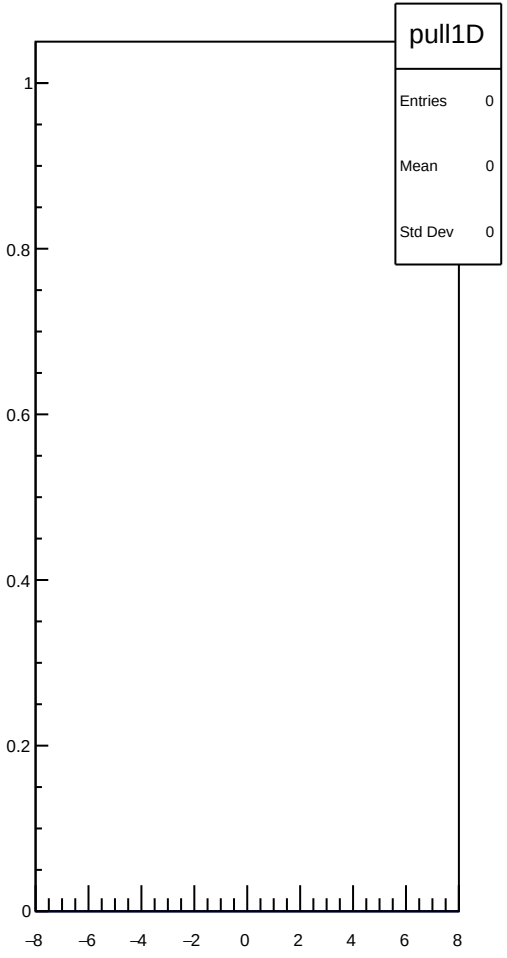
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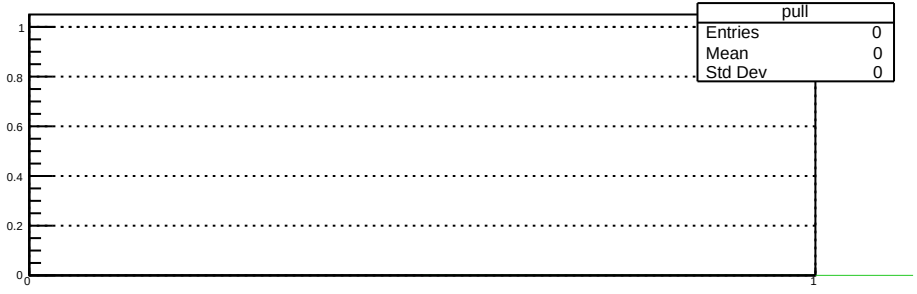
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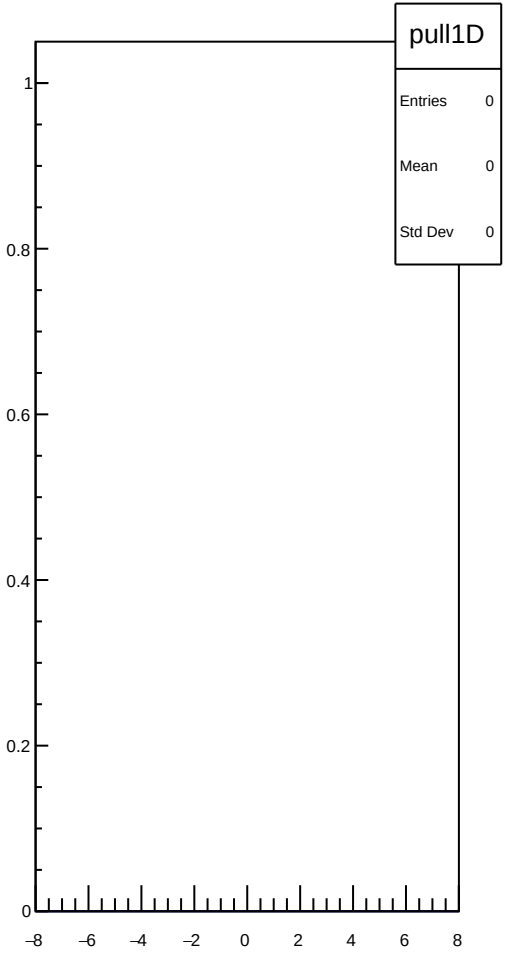
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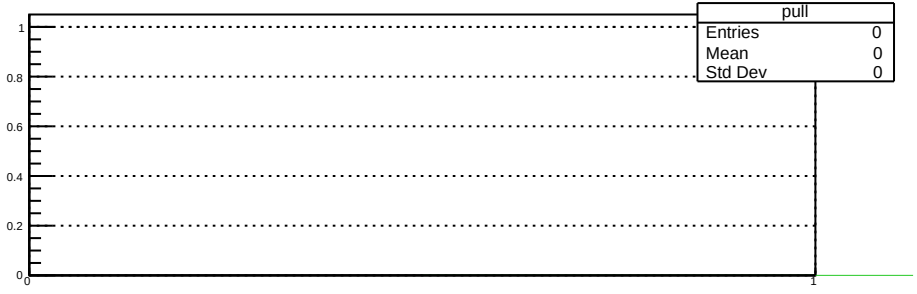
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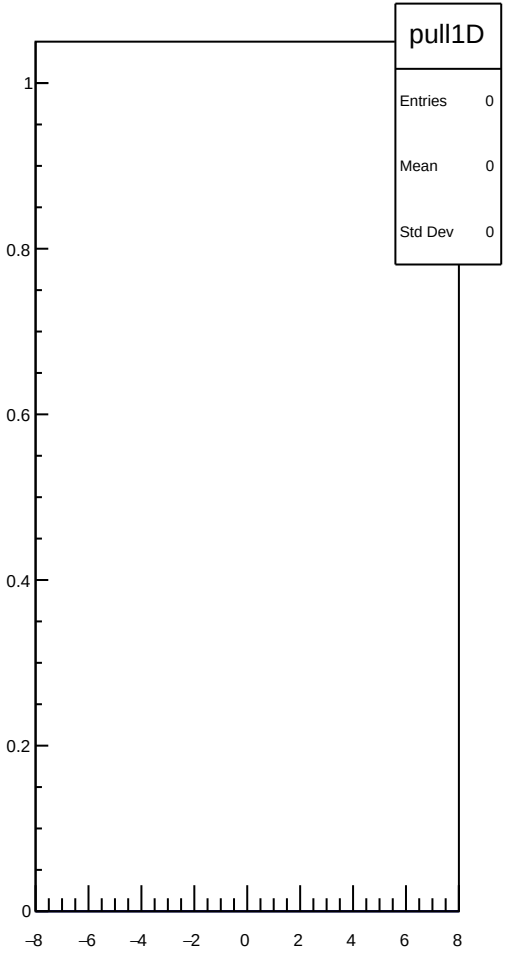
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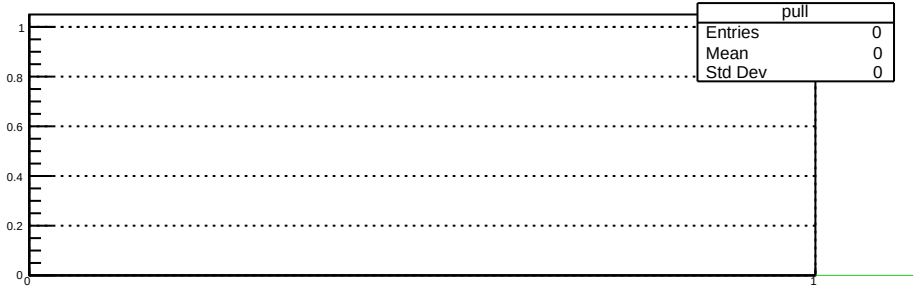
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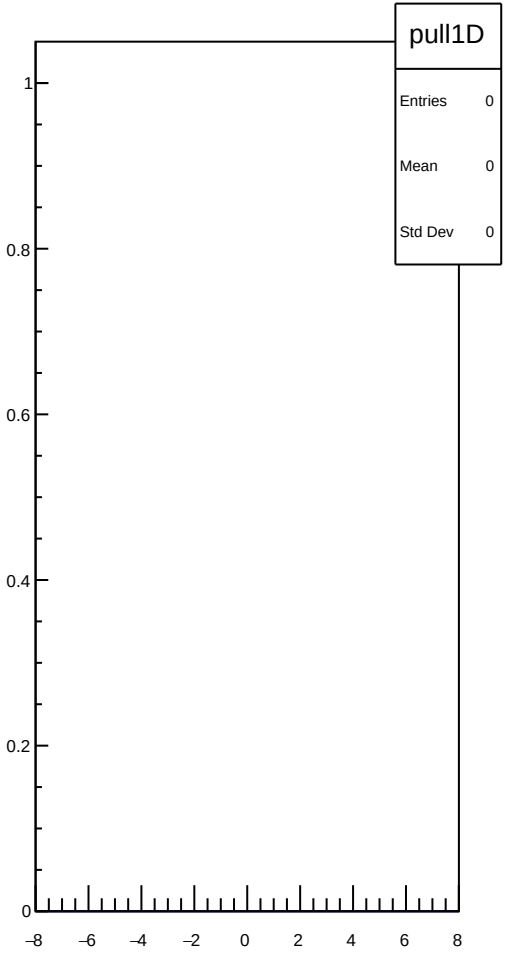
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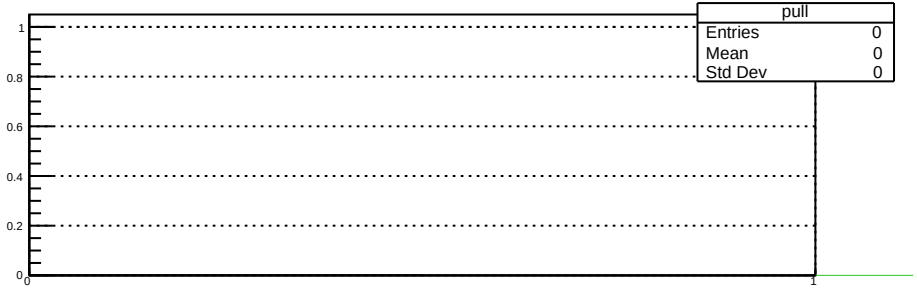
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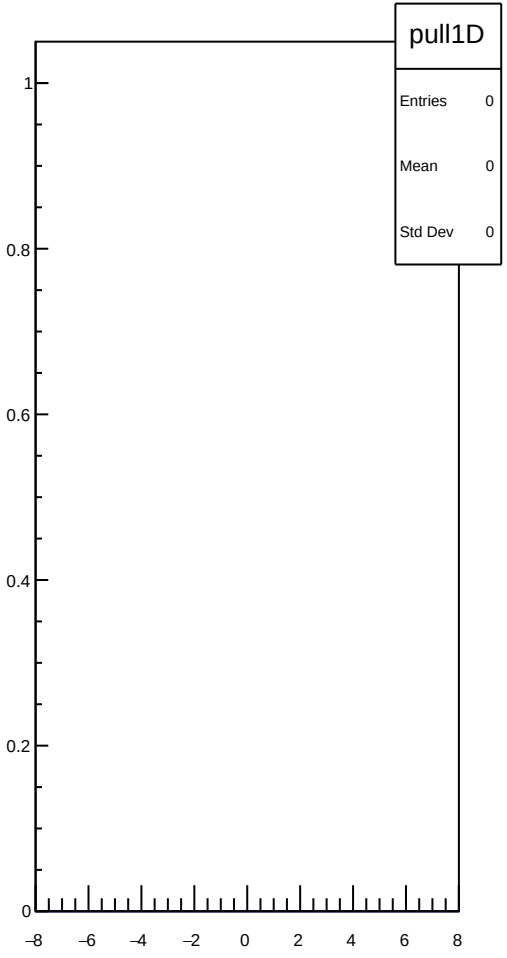
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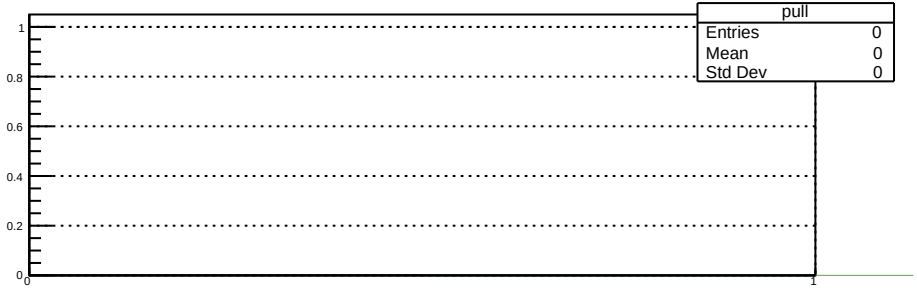
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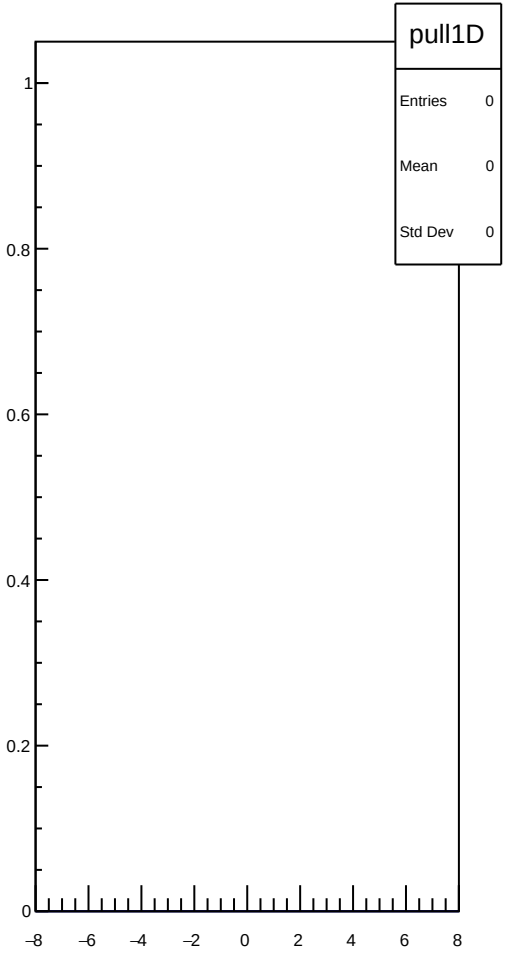
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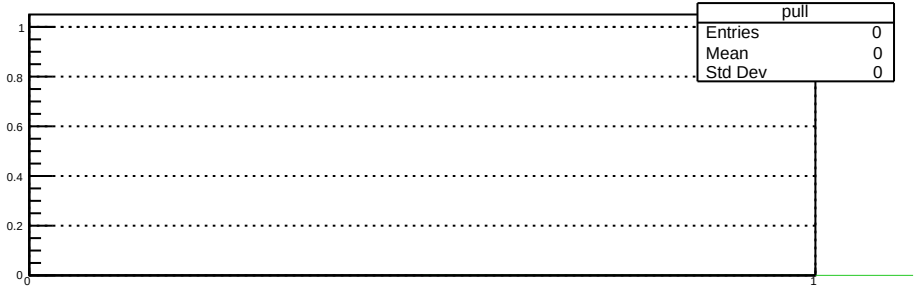
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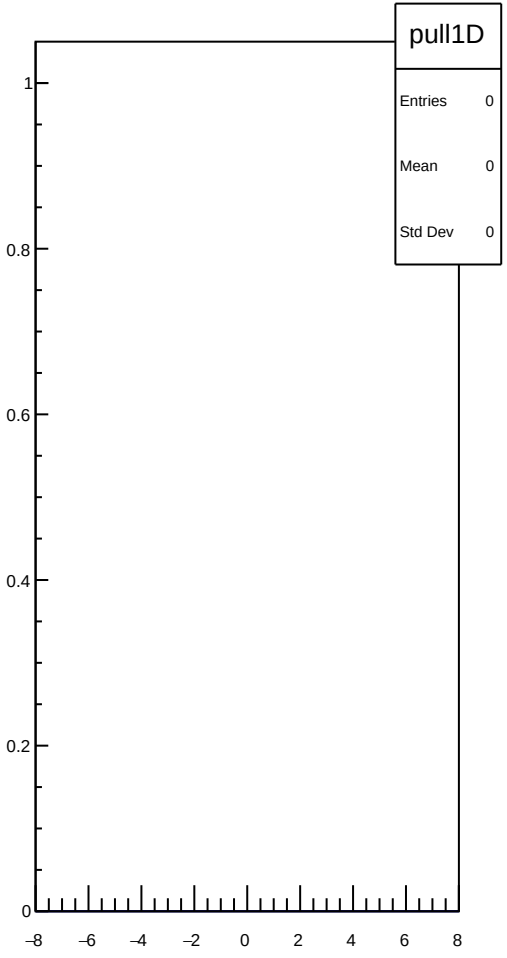
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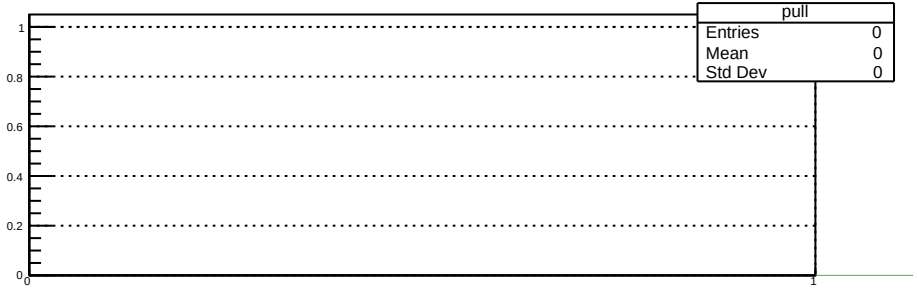
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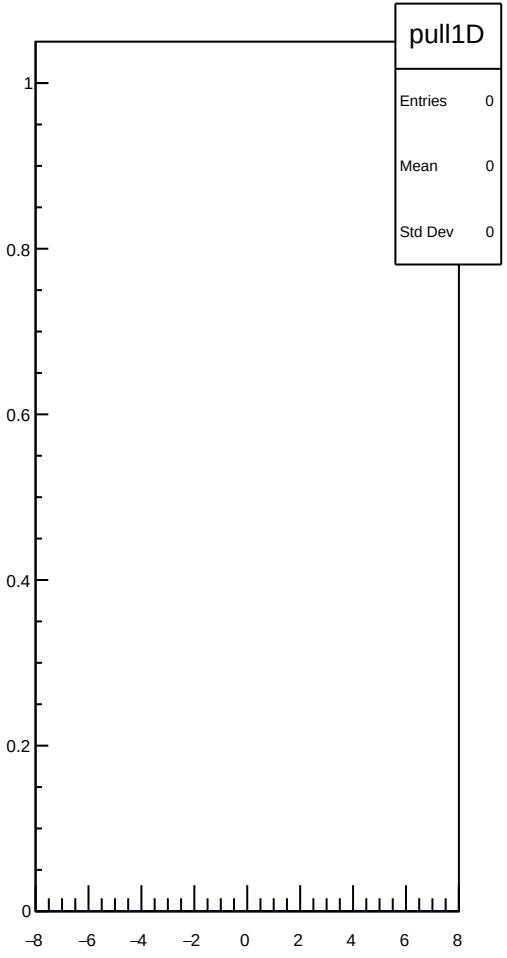
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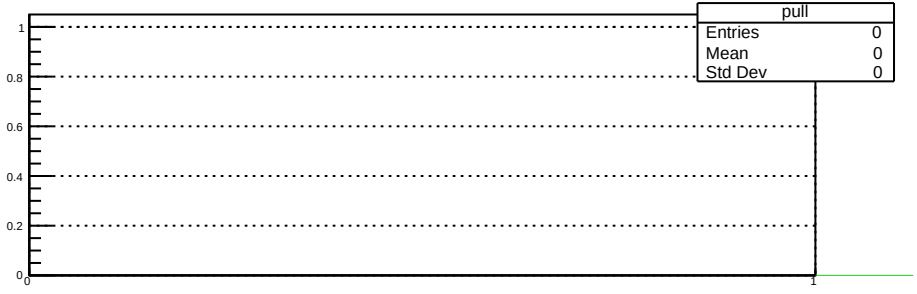
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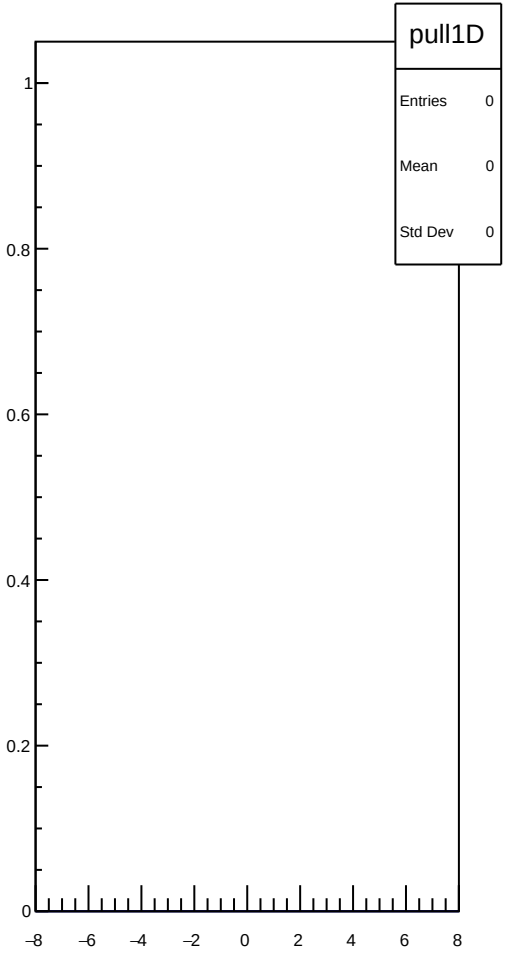
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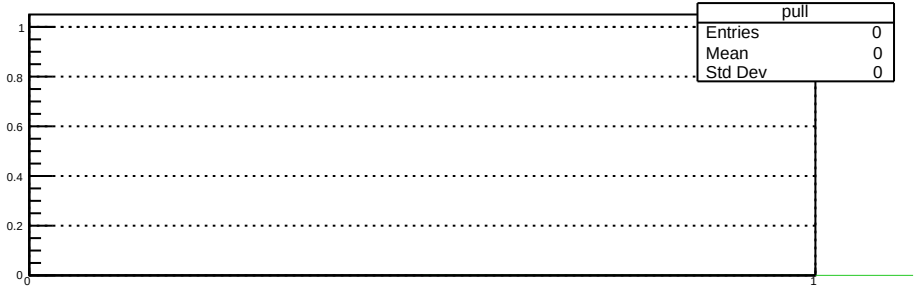
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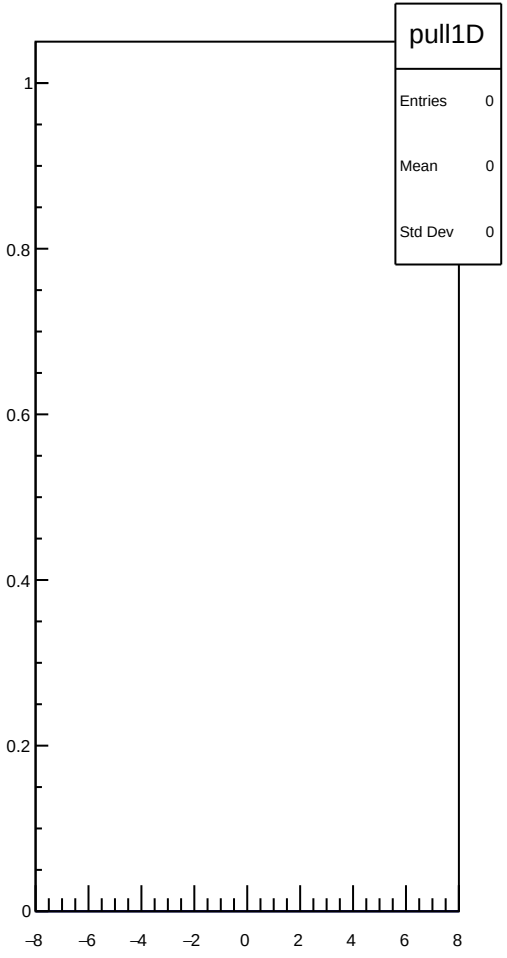
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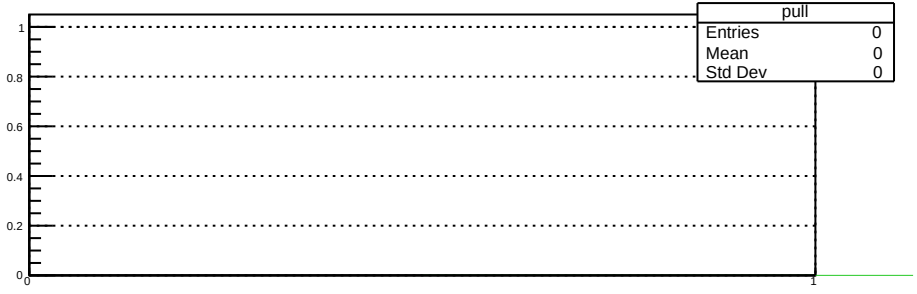
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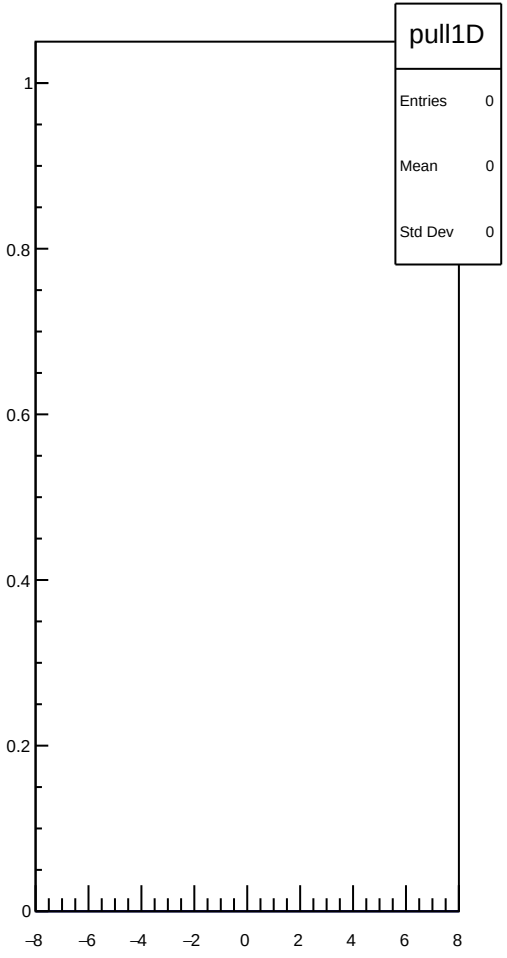
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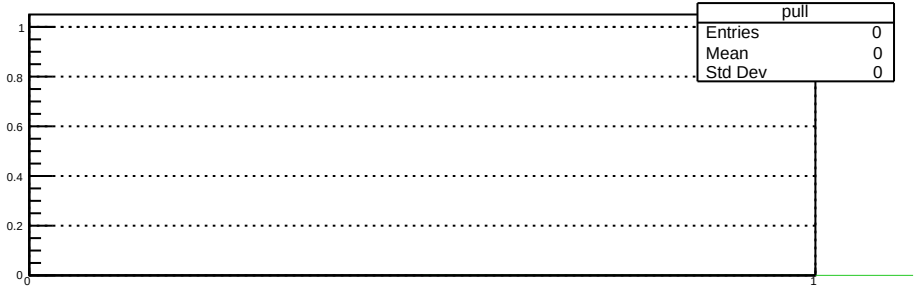
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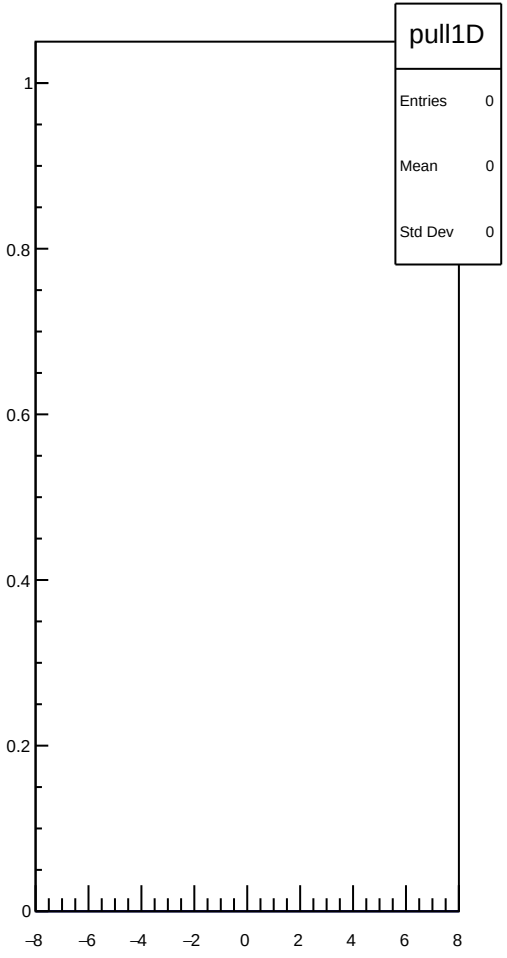
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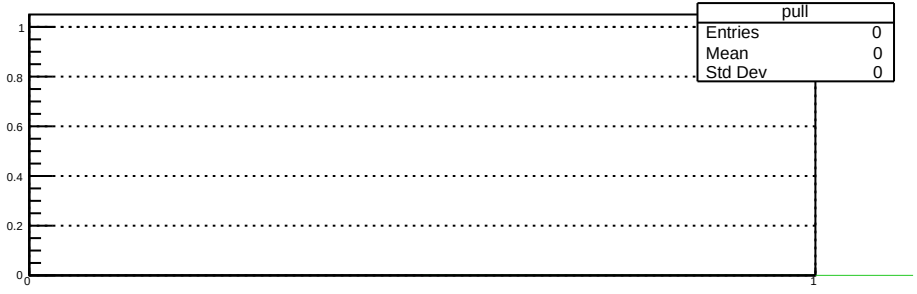
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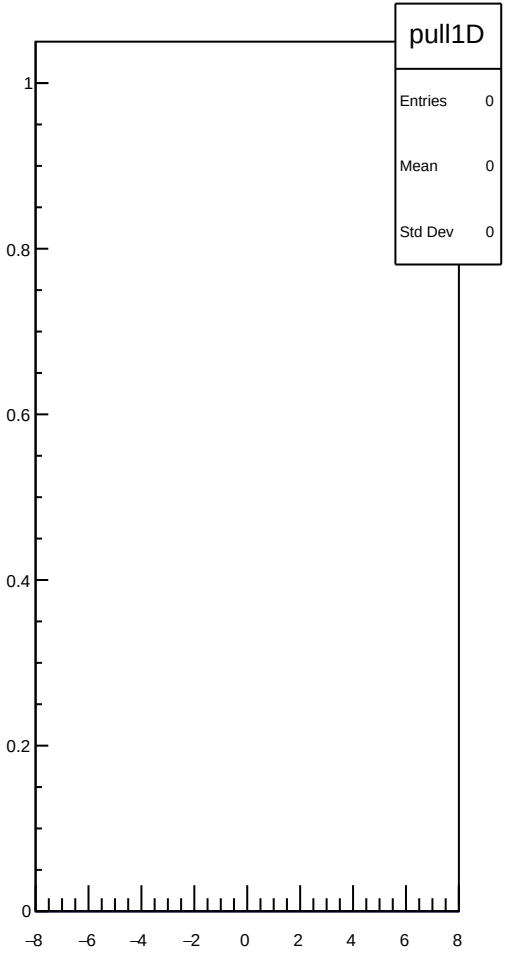
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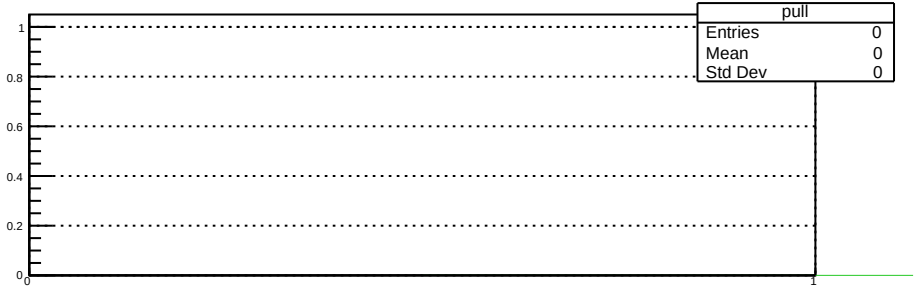
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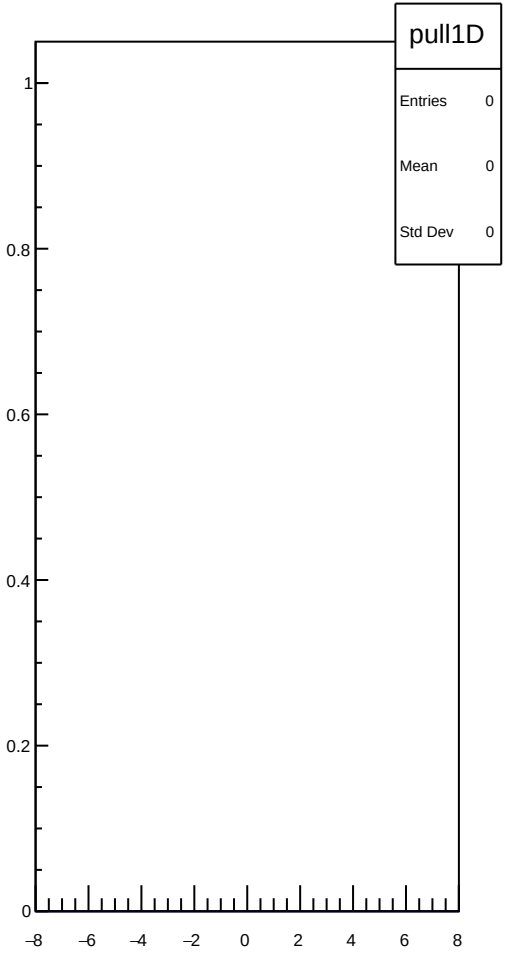
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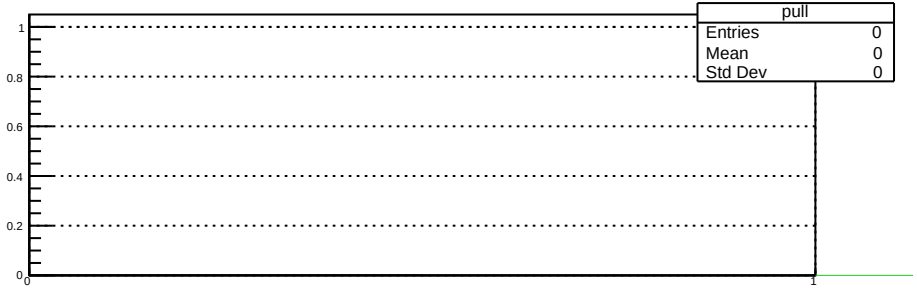
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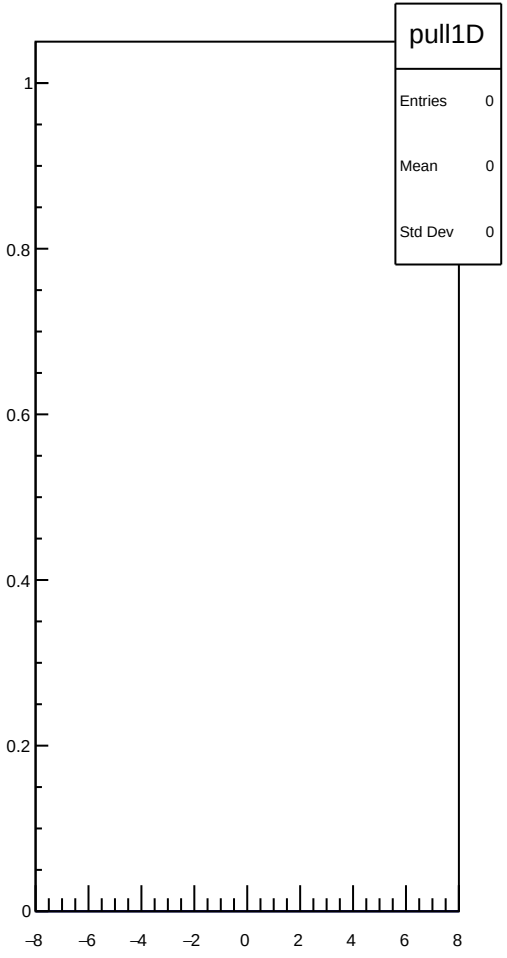
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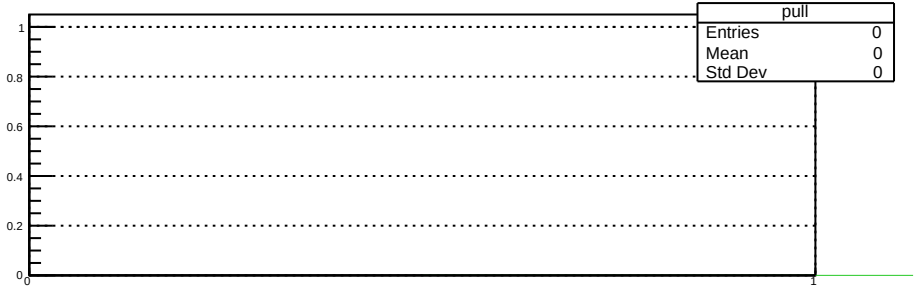
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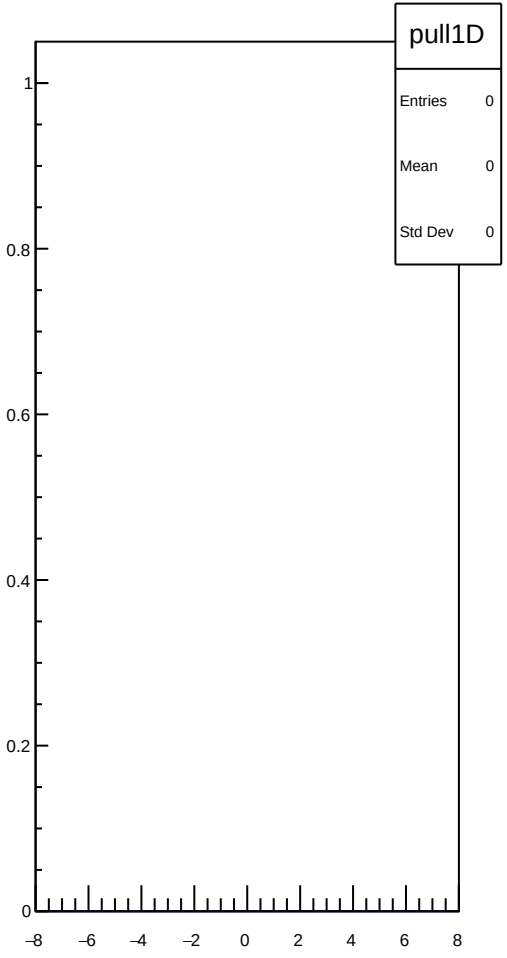
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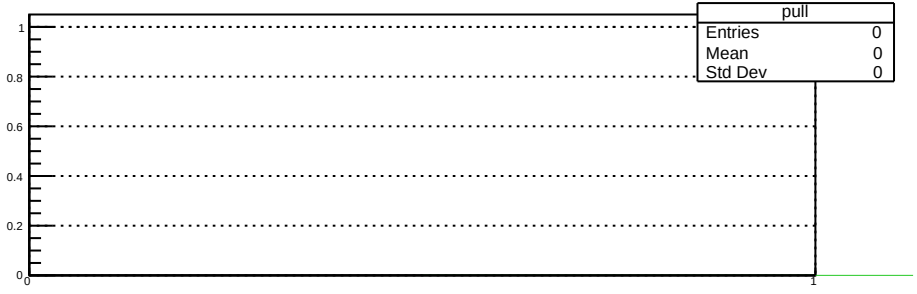
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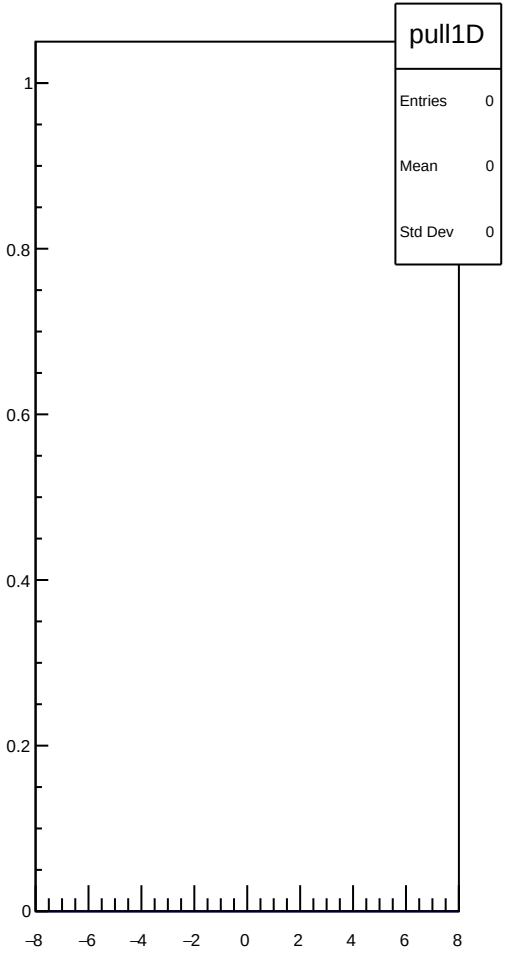
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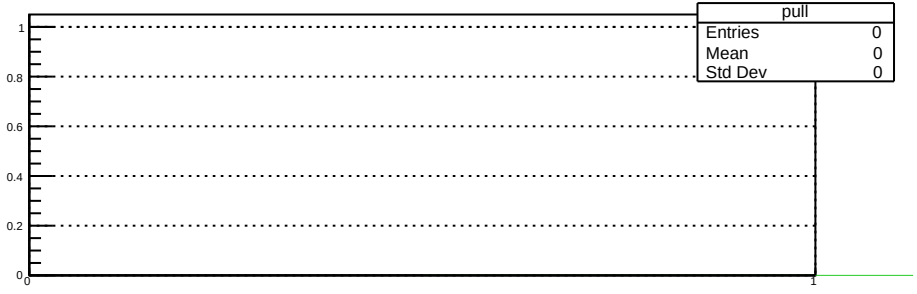
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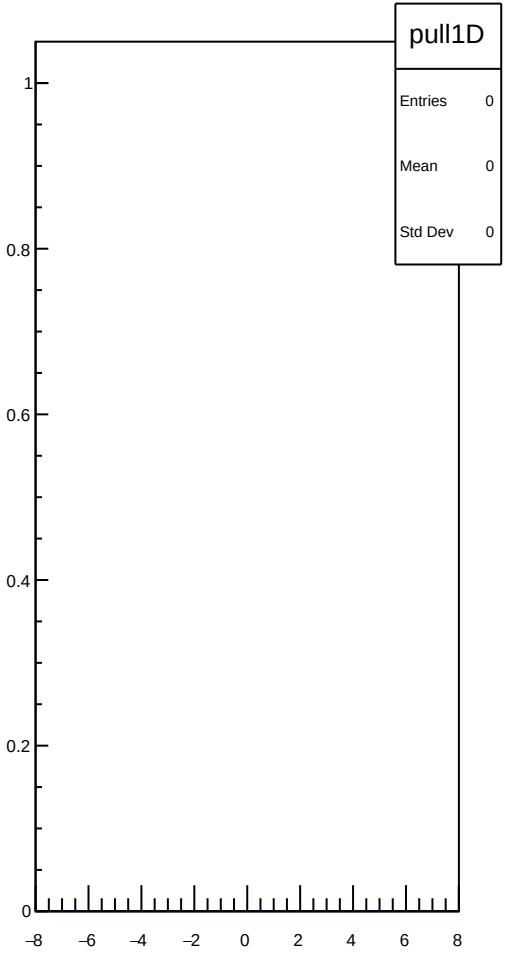
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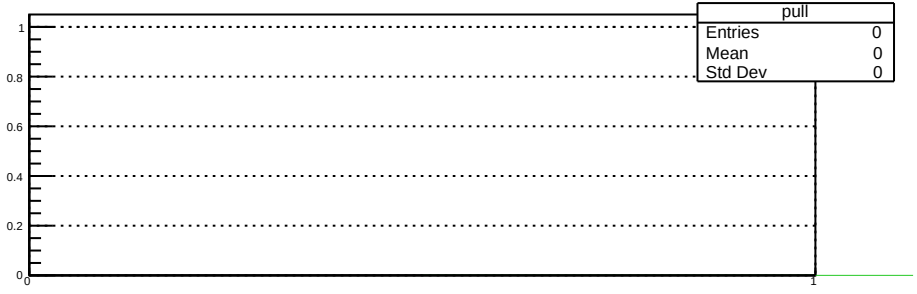
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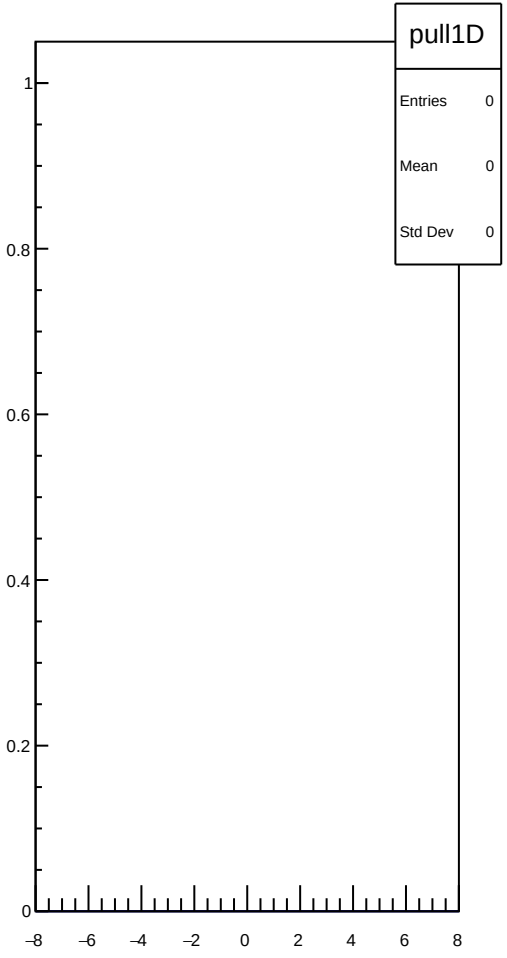
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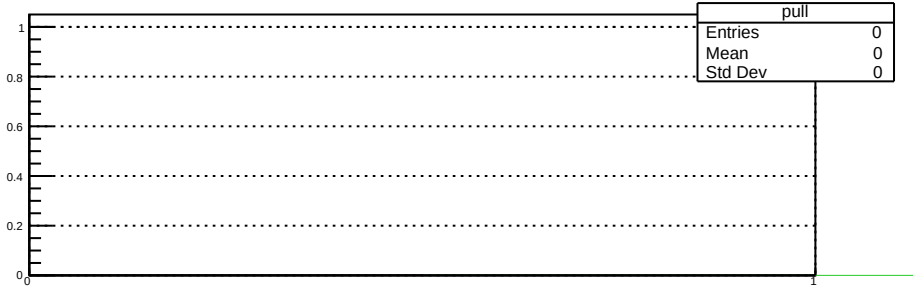
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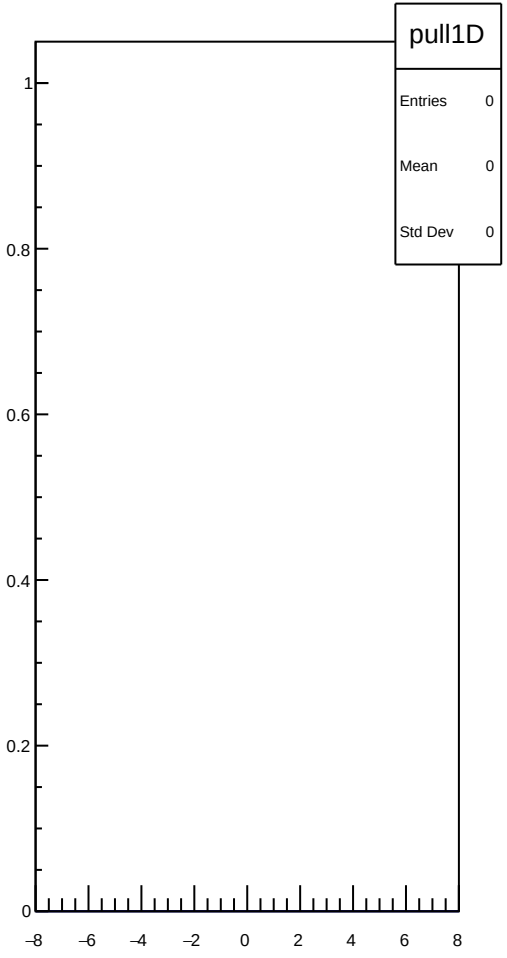
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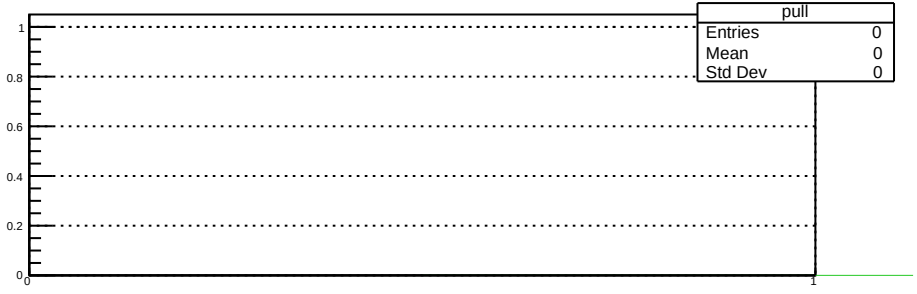
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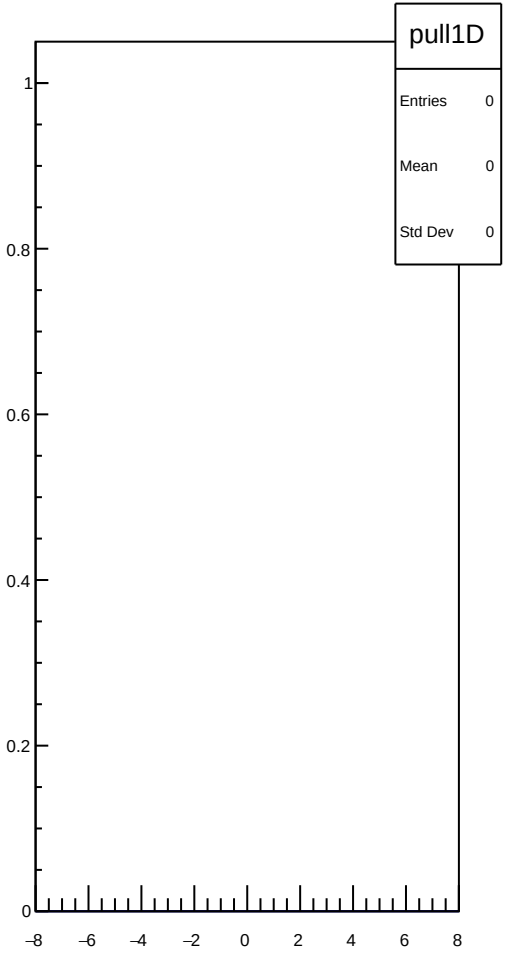
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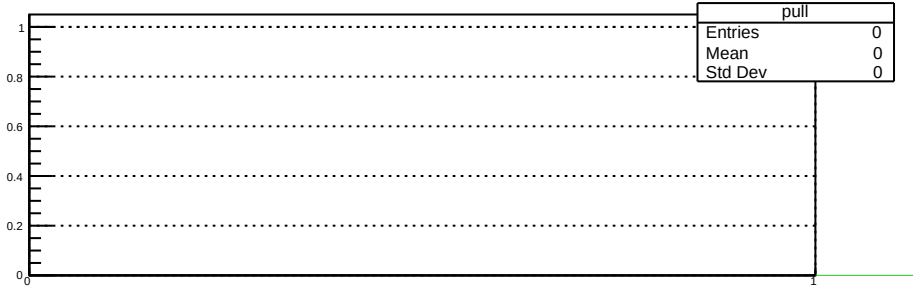
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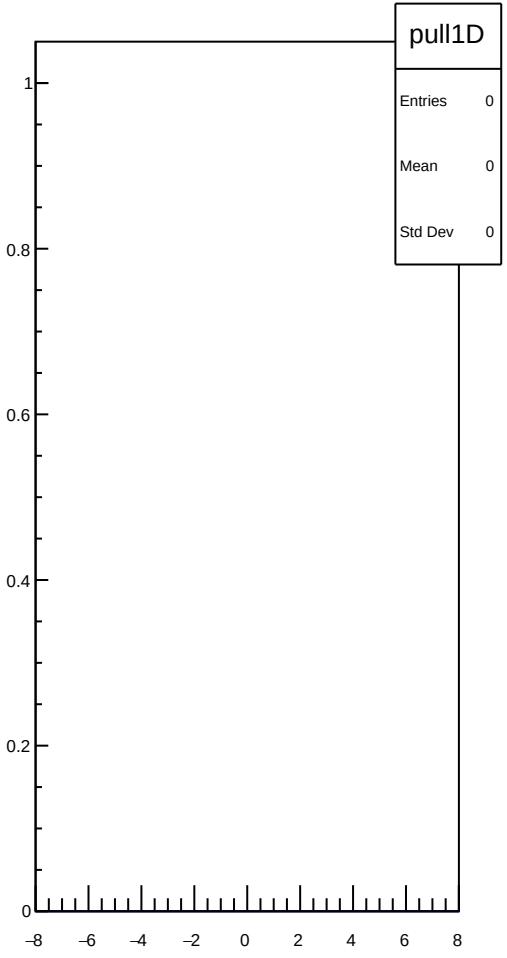
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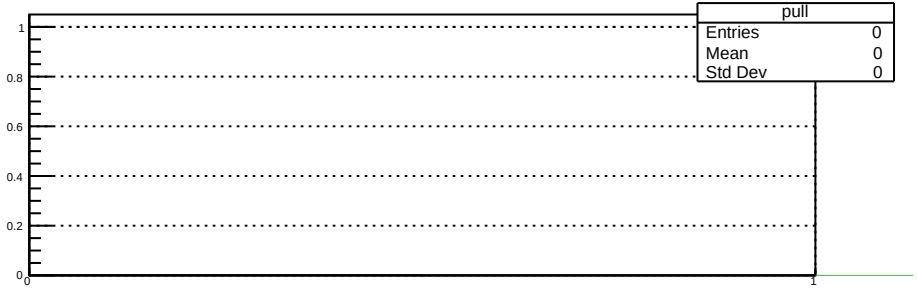
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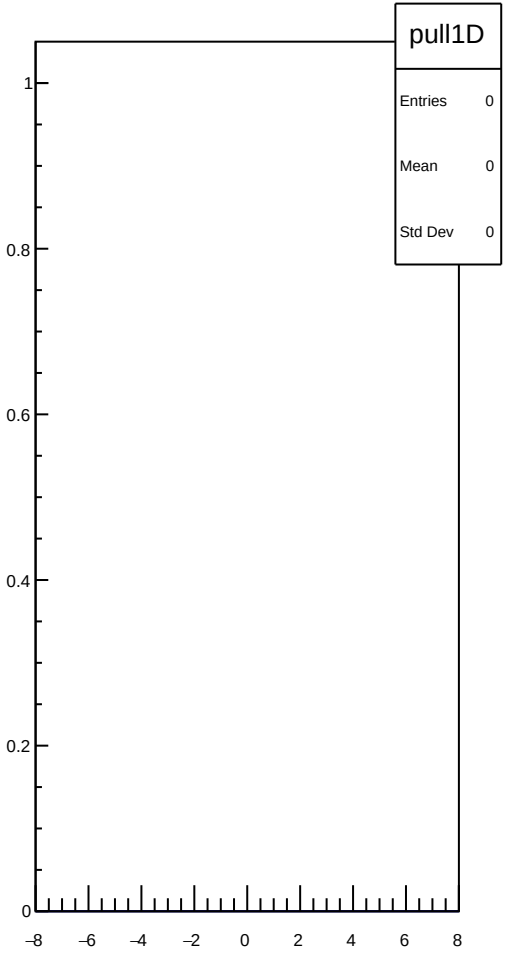
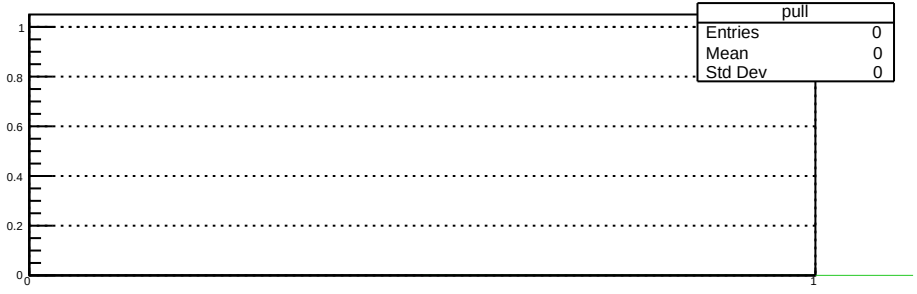
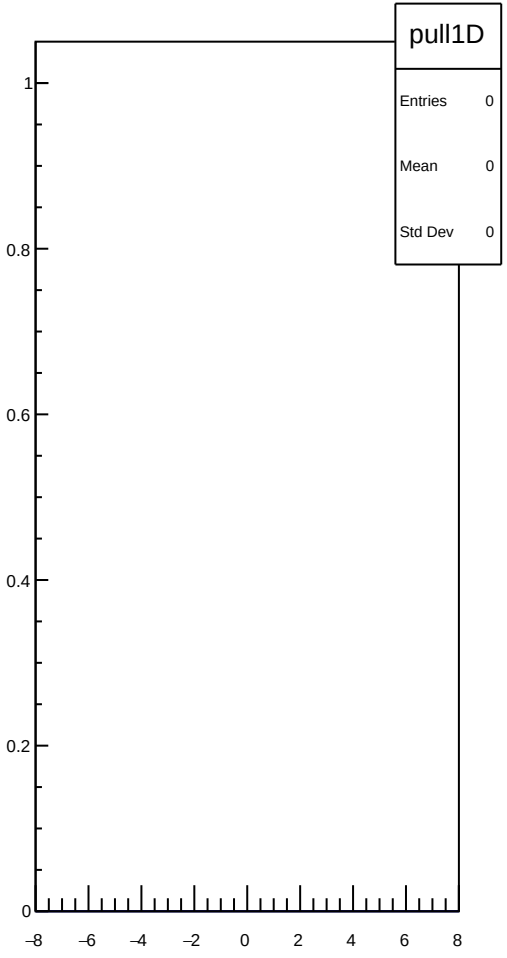
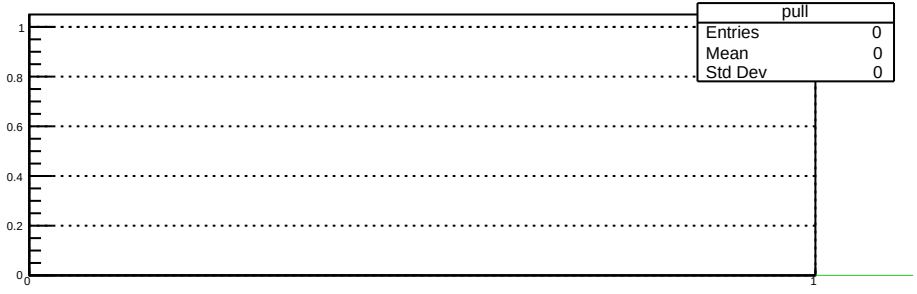
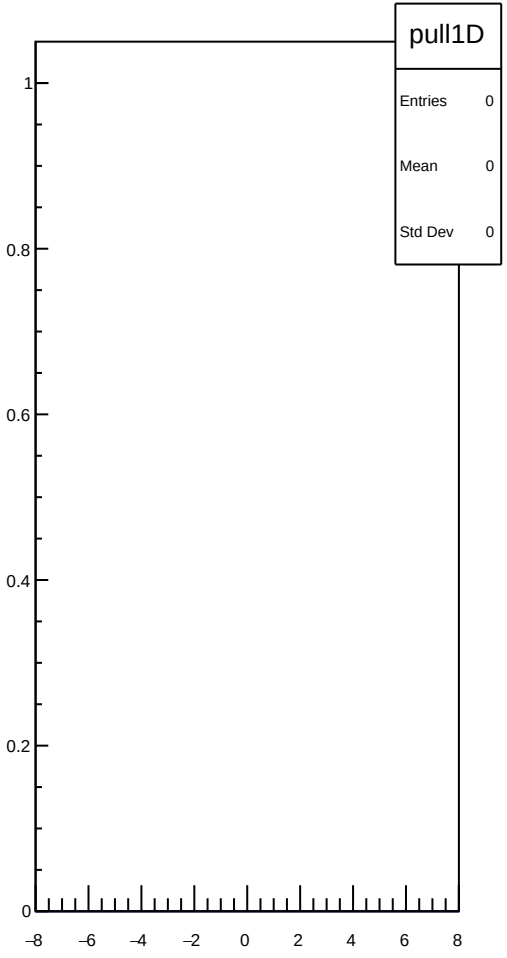
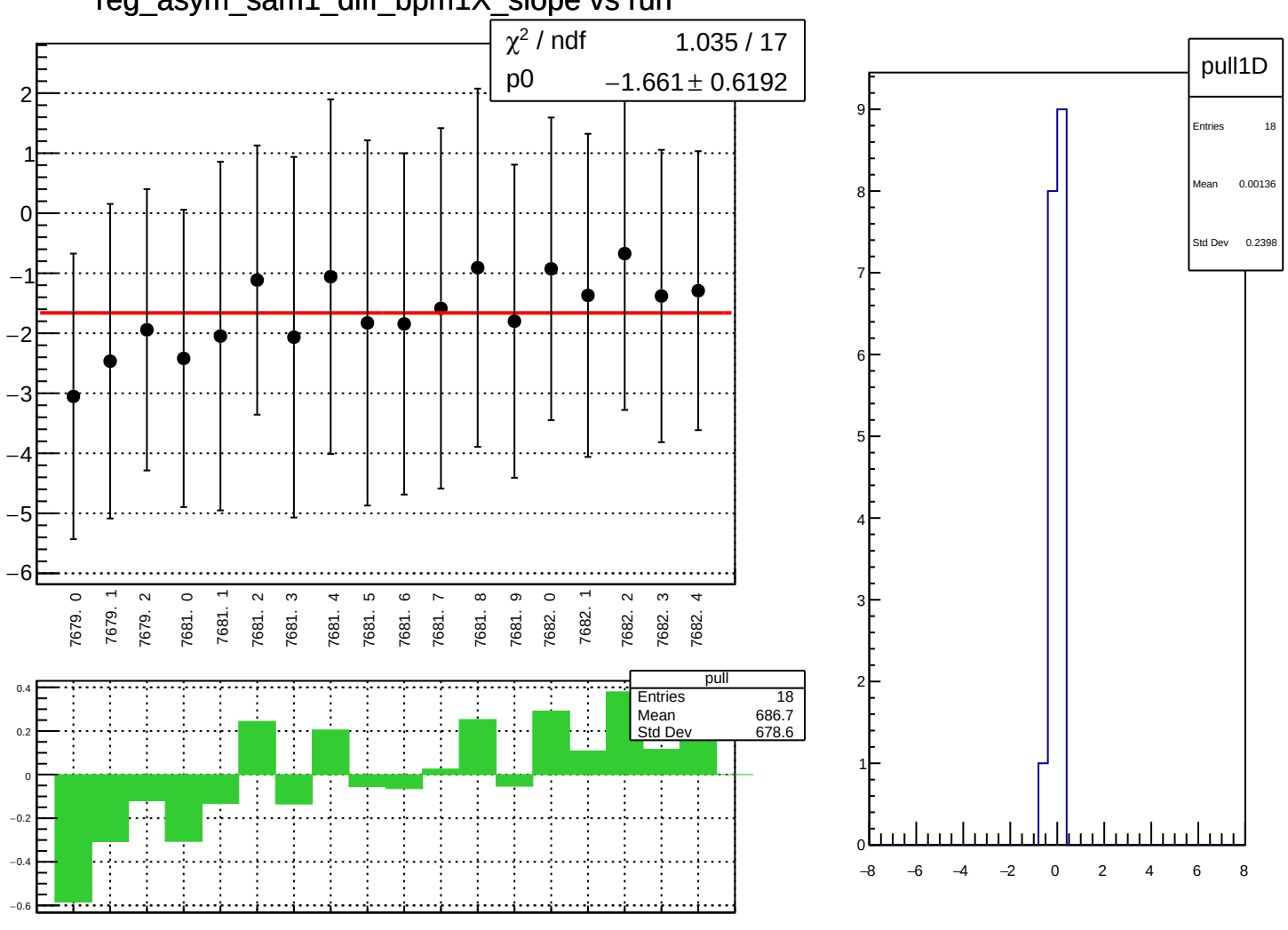

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

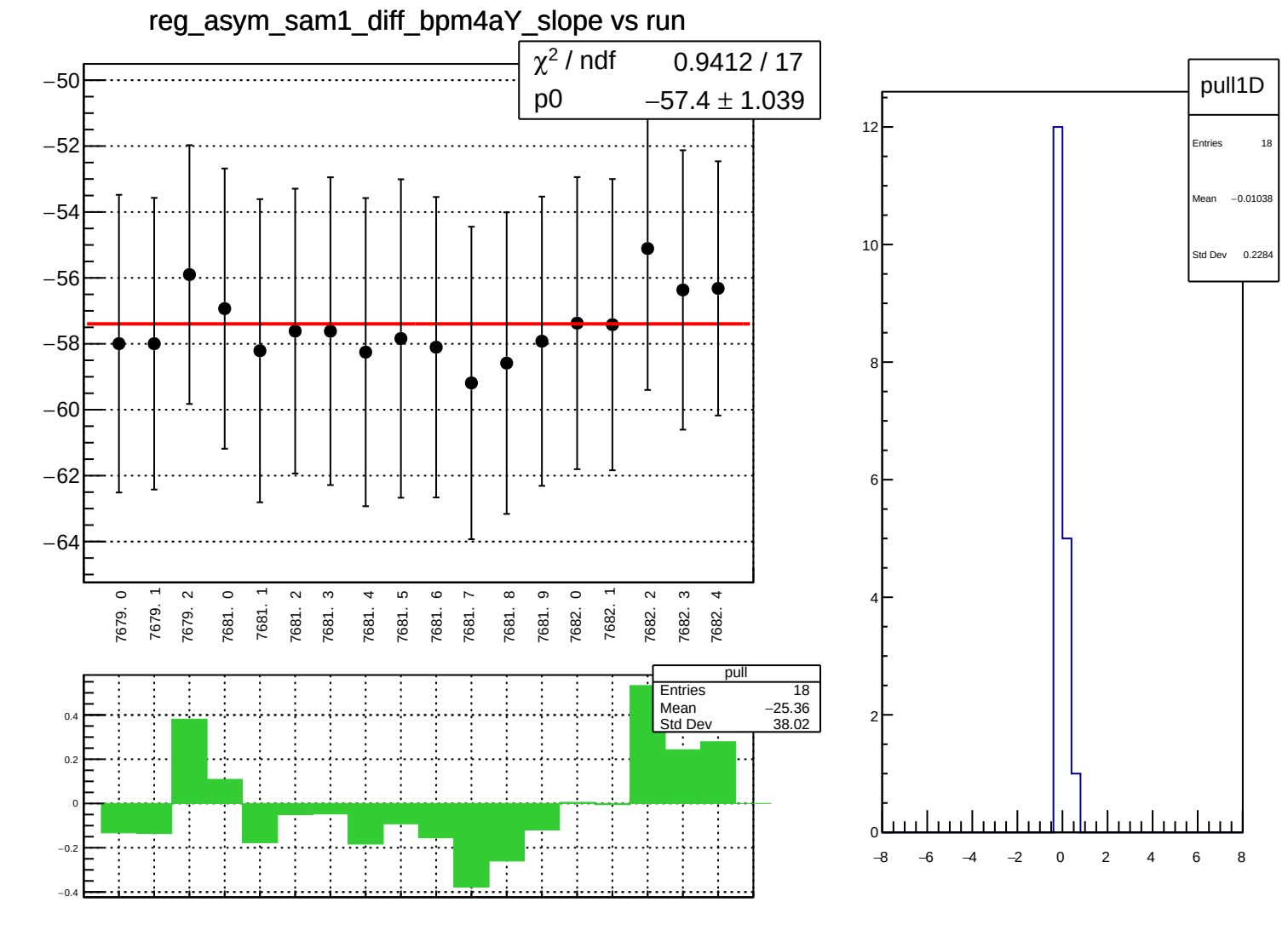

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

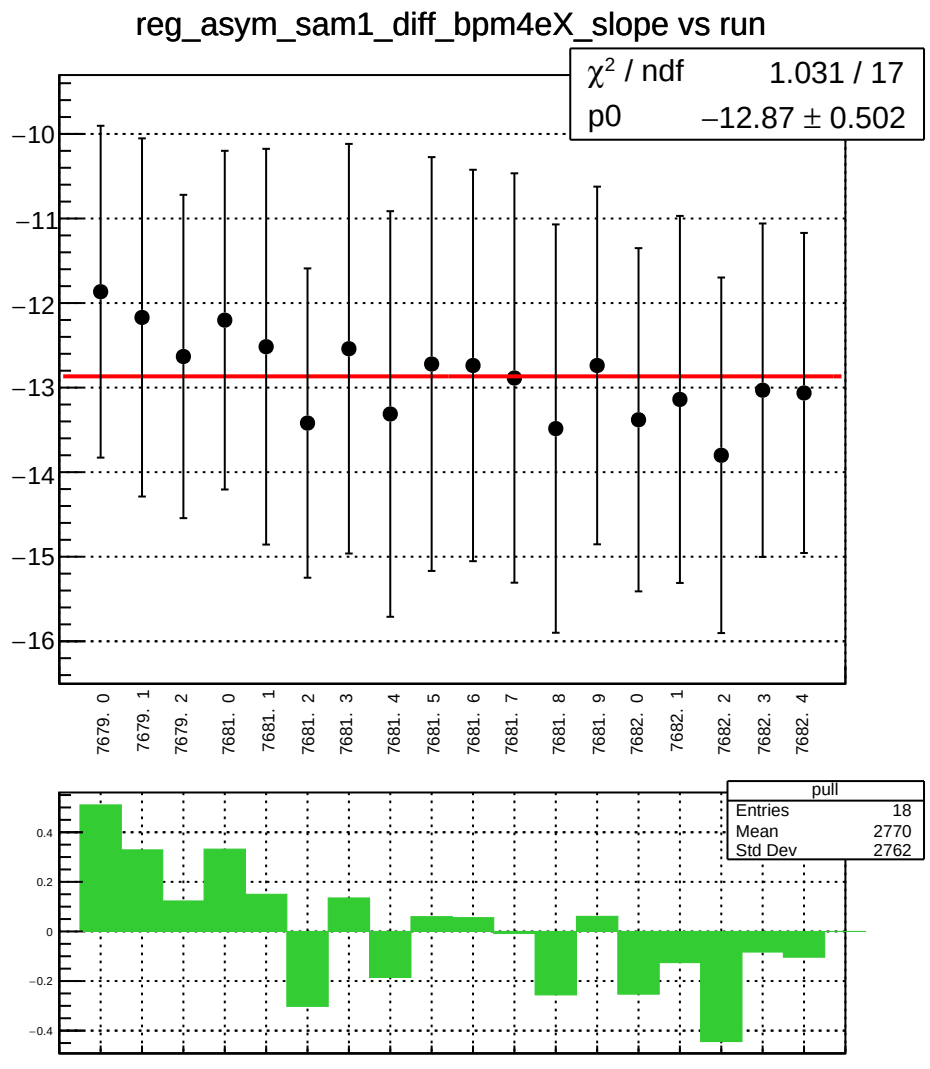

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

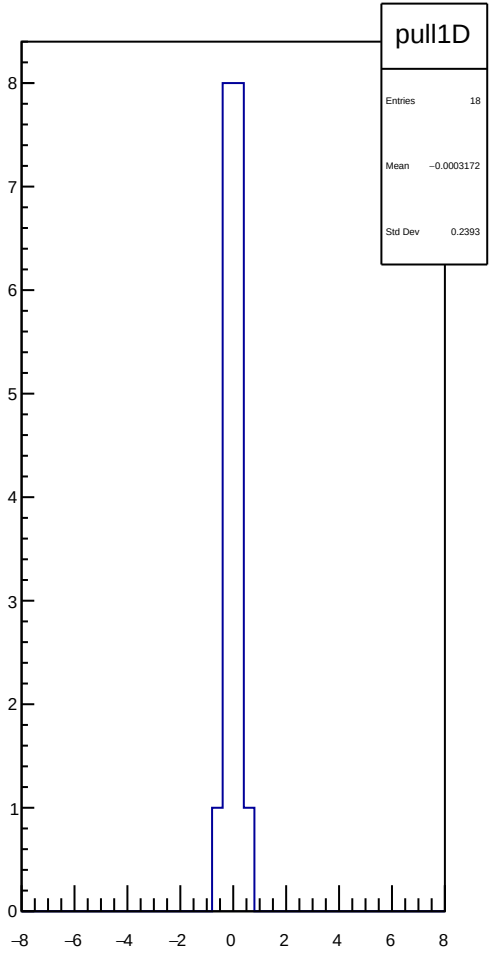

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

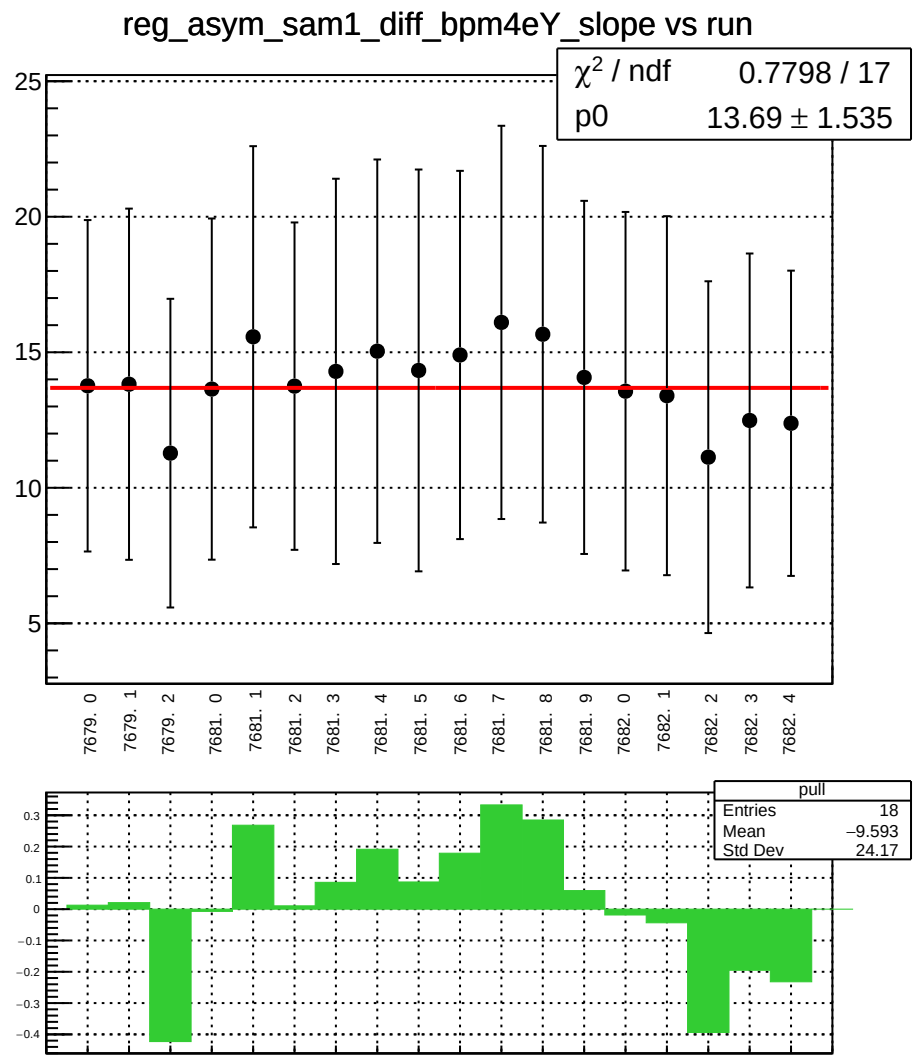

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

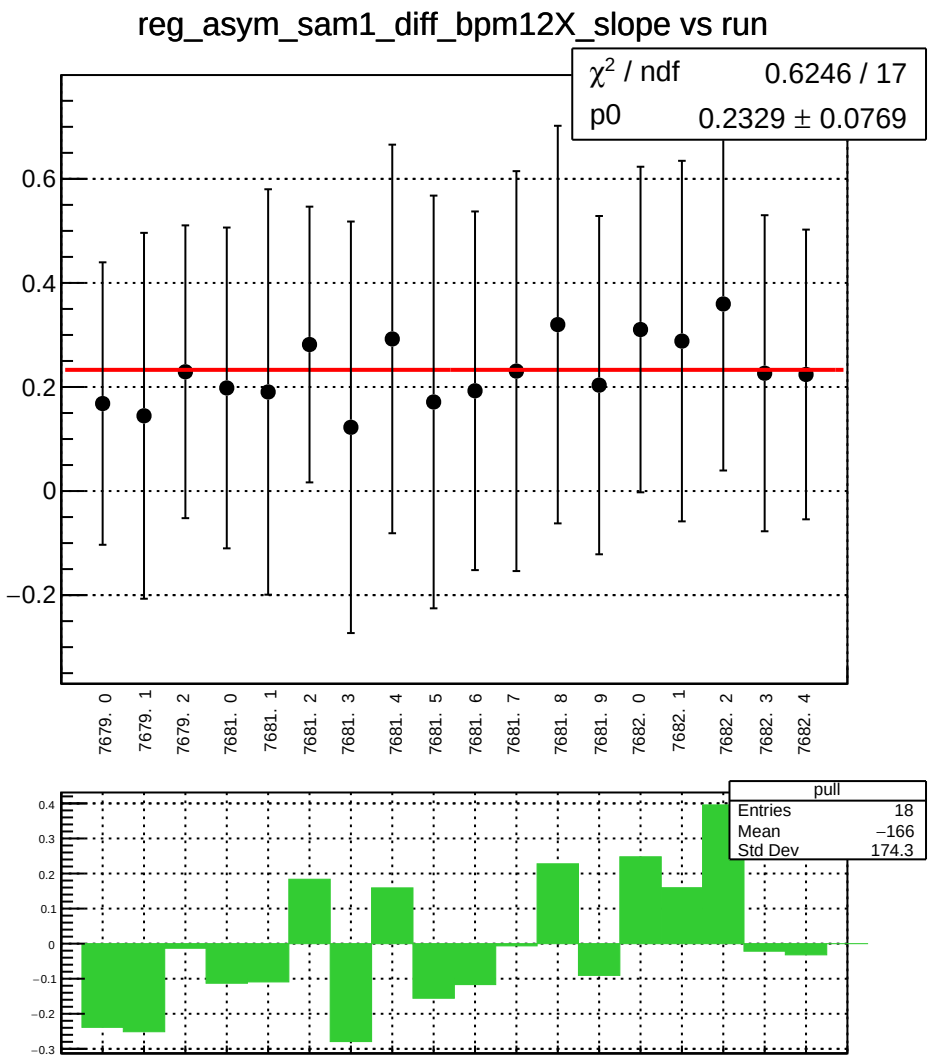

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 1.035 / 17
p0 −1.661 ± 0.6192
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 686.7
Std Dev 678.6
pull1D
Entries 18
Mean 0.00136
Std Dev 0.2398

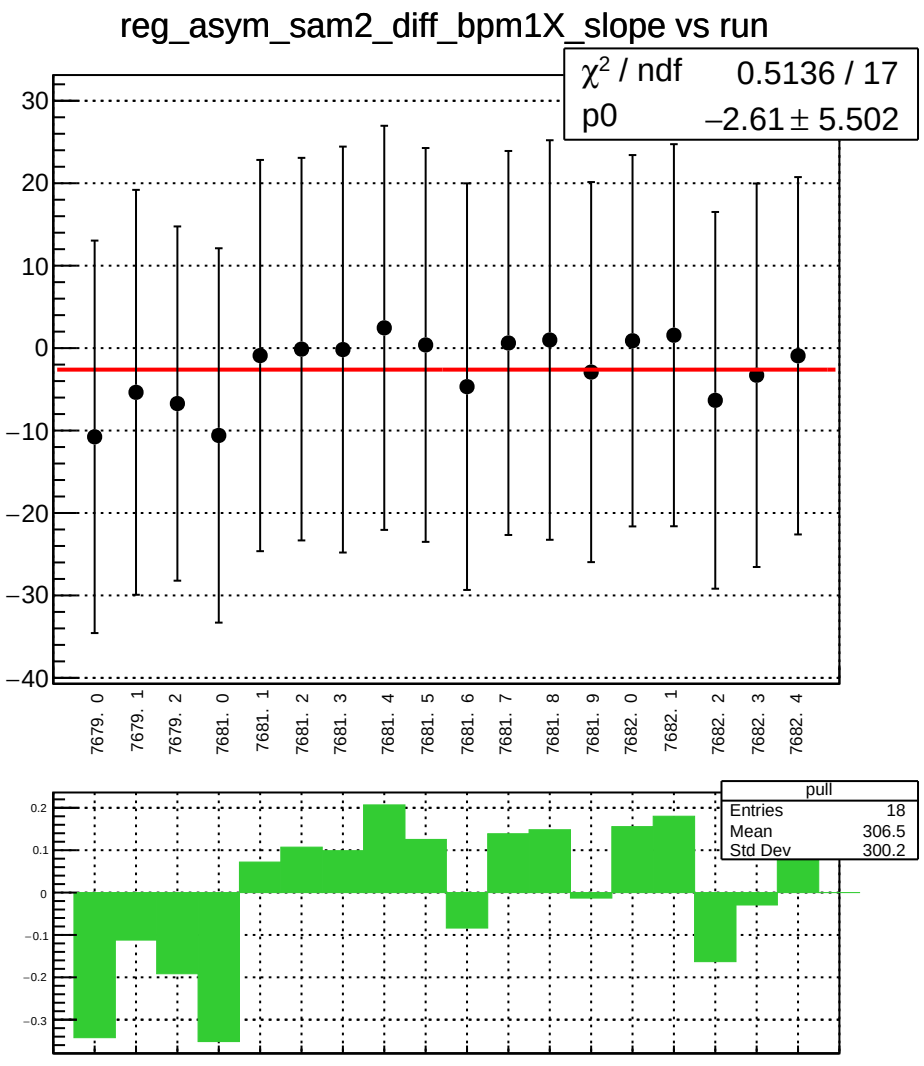

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 0.9412 / 17
p0 −57.4 ± 1.039
−50
−52
−54
−56
−58
−60
−62
−64
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −25.36
Std Dev 38.02
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 18
Mean −0.01038
Std Dev 0.2284
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

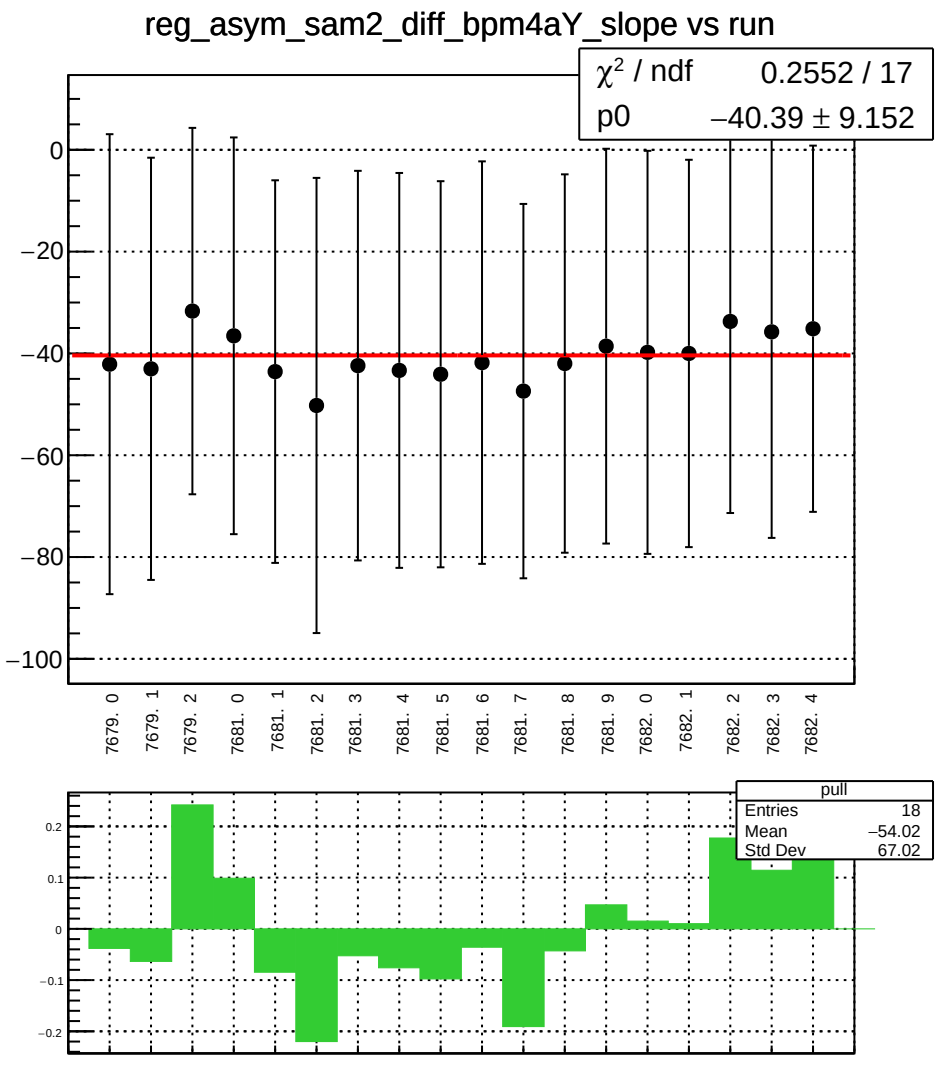

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 1.031 / 17
p0 −12.87 ± 0.502
−10
−11
−12
−13
−14
−15
−16
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 2770
Std Dev 2762
0.4
0.2
0
−0.2
−0.4

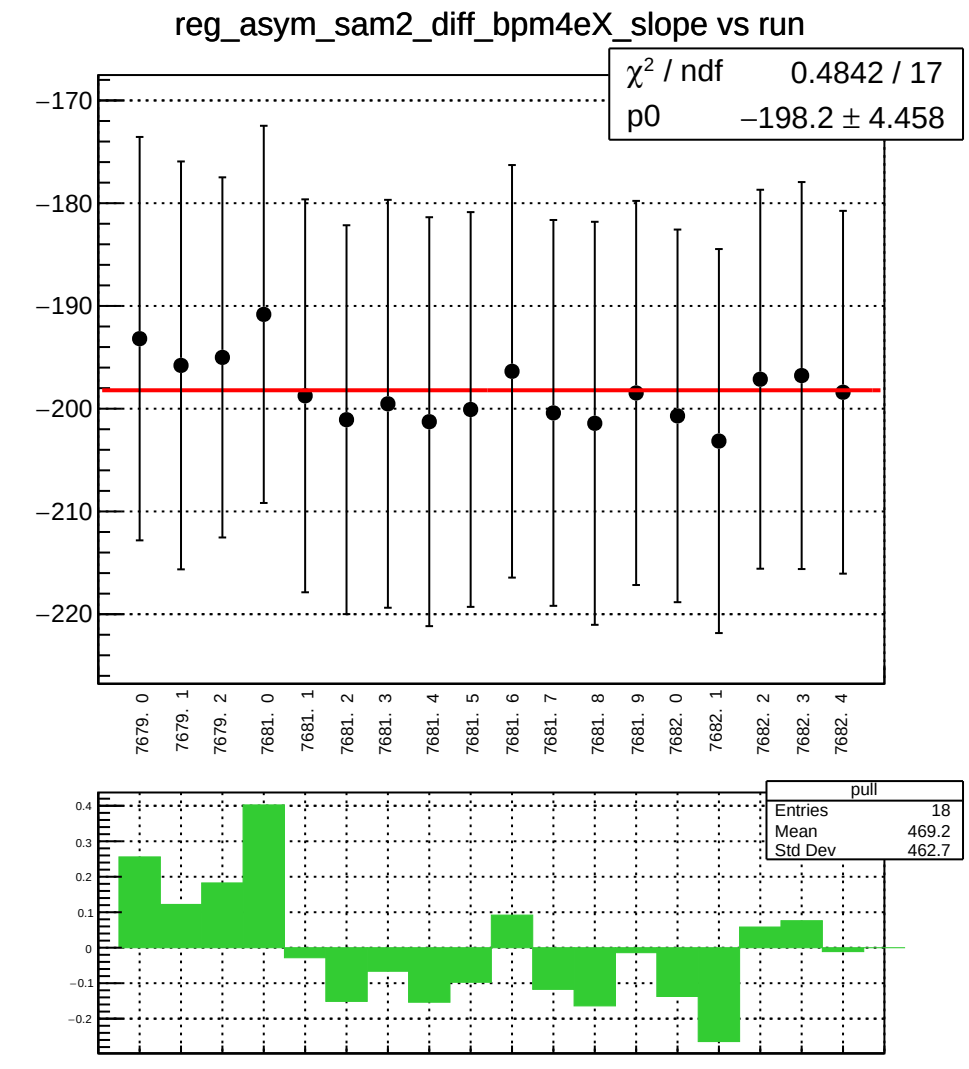

pull1D
Entries 18
Mean −0.0003172
Std Dev 0.2393
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

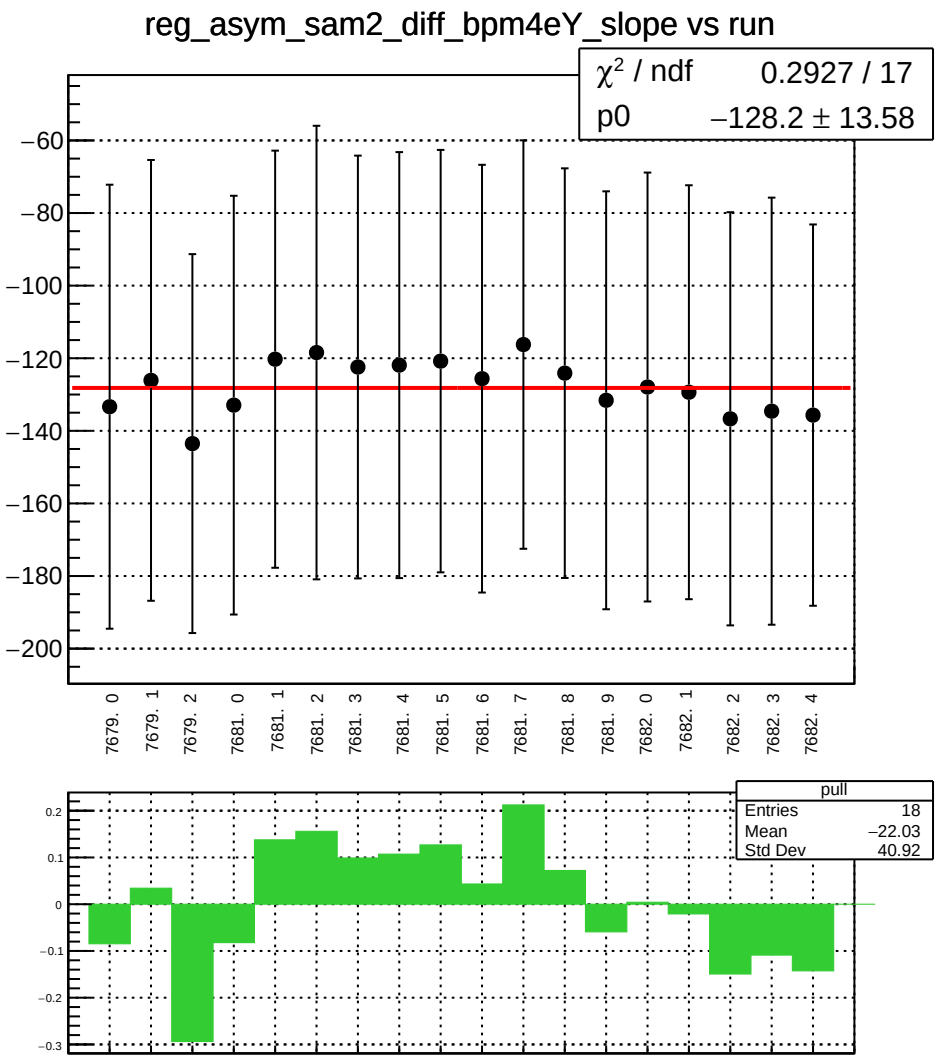

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 0.7798 / 17
p0 13.69 ± 1.535
25
20
15
10
5
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −9.593
Std Dev 24.17
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 18
Mean 0.01217
Std Dev 0.2078
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

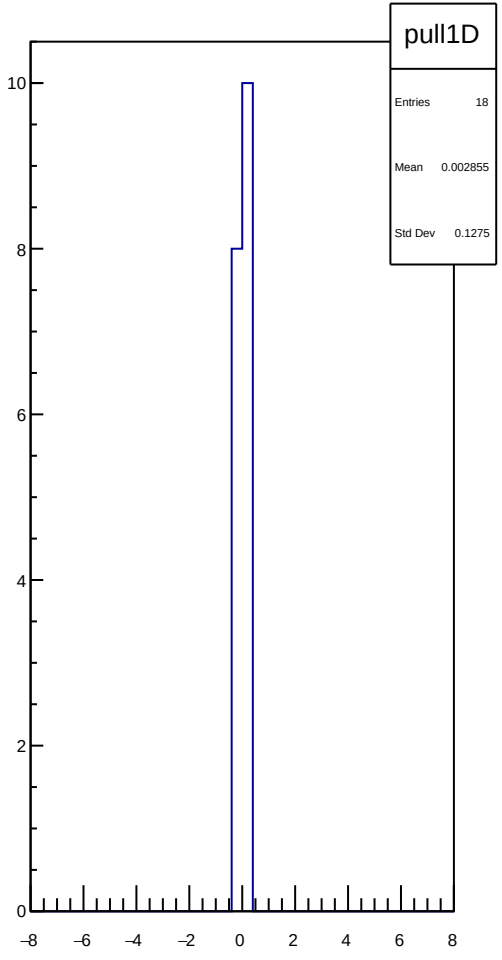

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 0.6246 / 17
p0 0.2329 ± 0.0769
0.6
0.4
0.2
0
−0.2
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −166
Std Dev 174.3
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 18
Mean −0.002958
Std Dev 0.1863
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

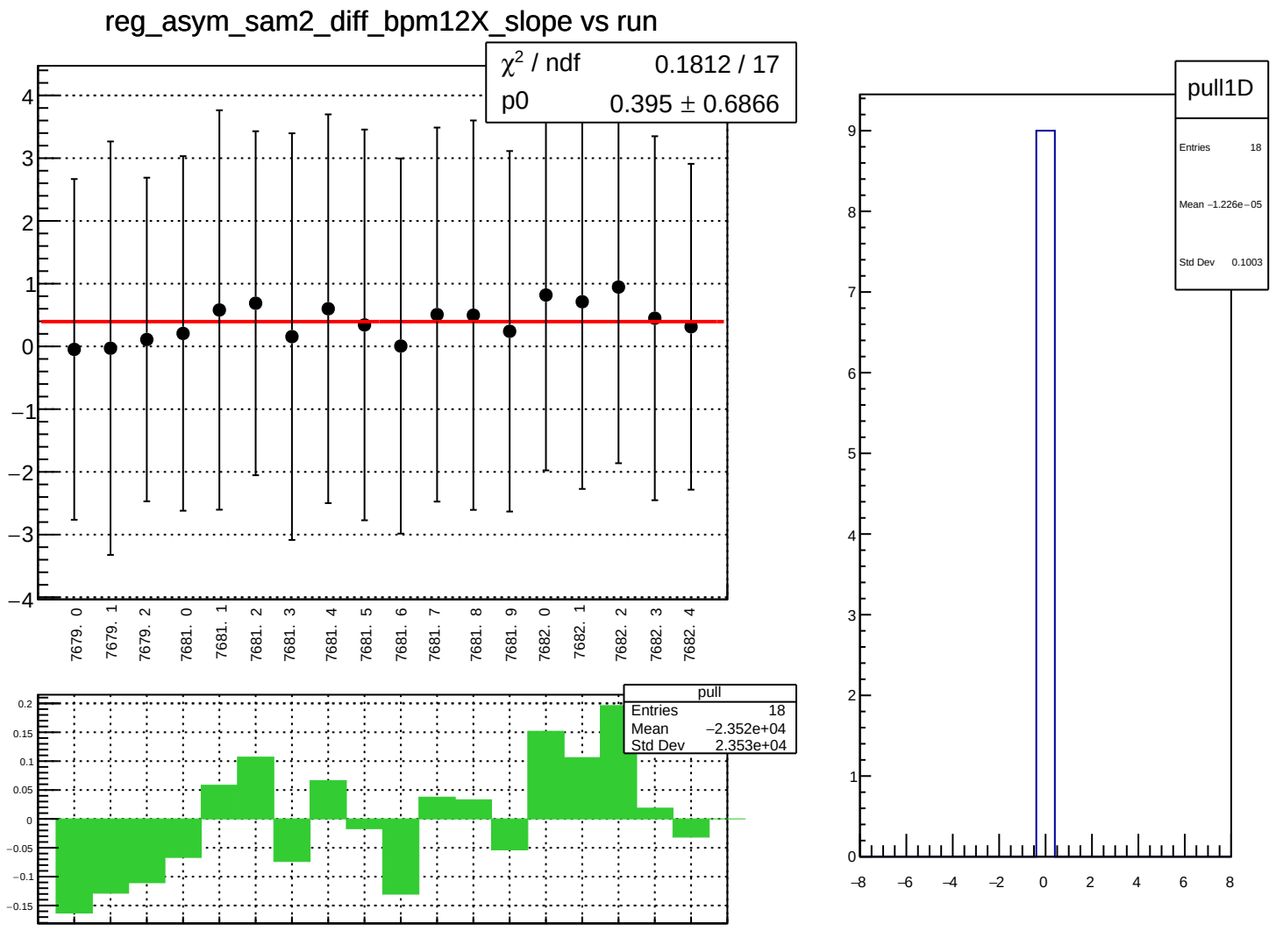

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 0.5136 / 17
p0 −2.61 ± 5.502
30
20
10
0
−10
−20
−30
−40
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 306.5
Std Dev 300.2
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 18
Mean 0.00134
Std Dev 0.1689
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

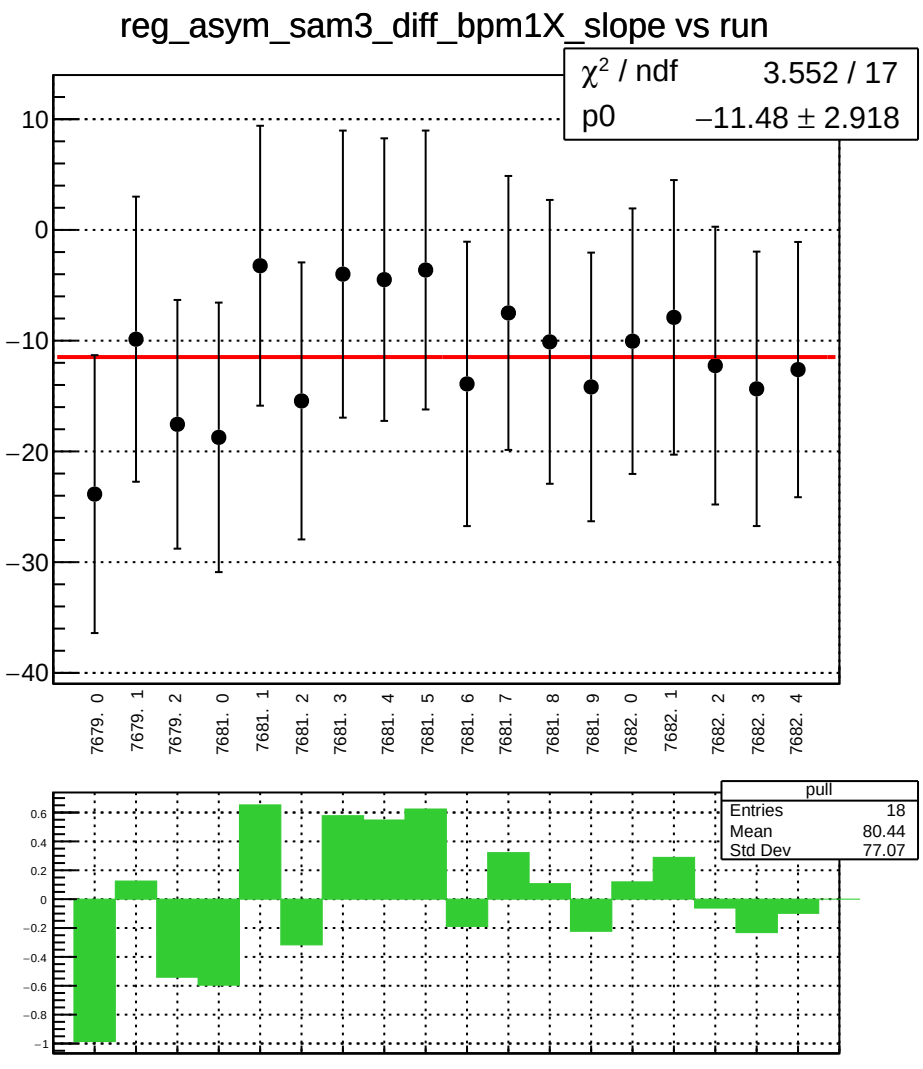

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 0.2552 / 17
p0 −40.39 ± 9.152
0
−20
−40
−60
−80
−100
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −54.02
Std Dev 67.02
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 18
Mean −0.002869
Std Dev 0.119
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

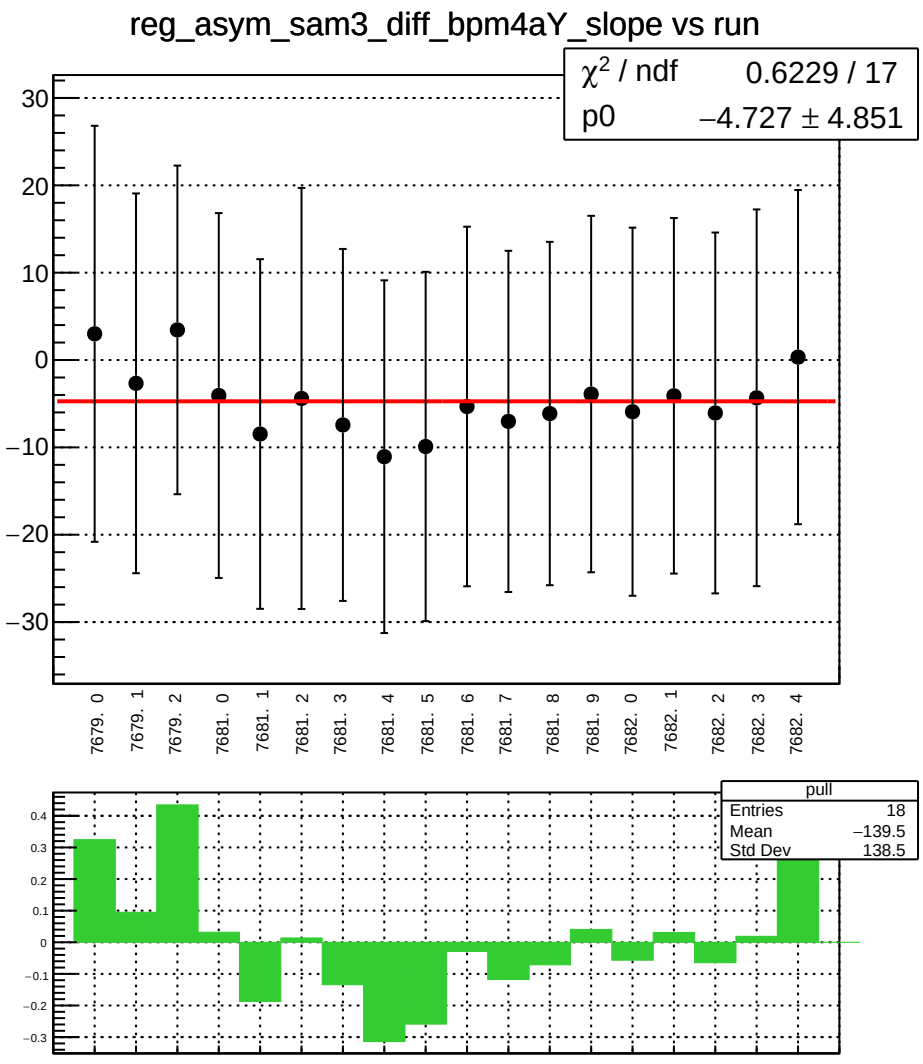

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 0.4842 / 17
p0 −198.2 ± 4.458
−170
−180
−190
−200
−210
−220
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 469.2
Std Dev 462.7
0.4
0.3
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 18
Mean −0.0008683
Std Dev 0.164
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

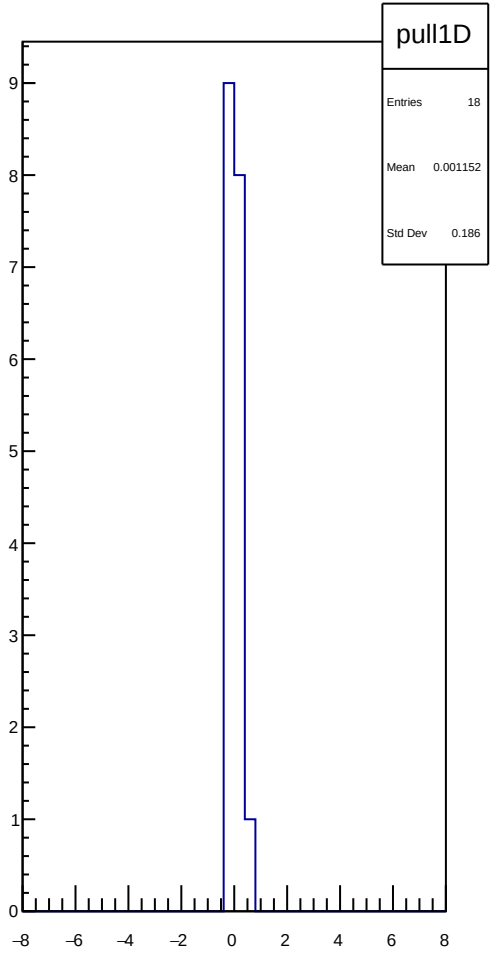

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 0.2927 / 17
p0 −128.2 ± 13.58
−60
−80
−100
−120
−140
−160
−180
−200
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −22.03
Std Dev 40.92
0.2
0.1
0
−0.1
−0.2
−0.3

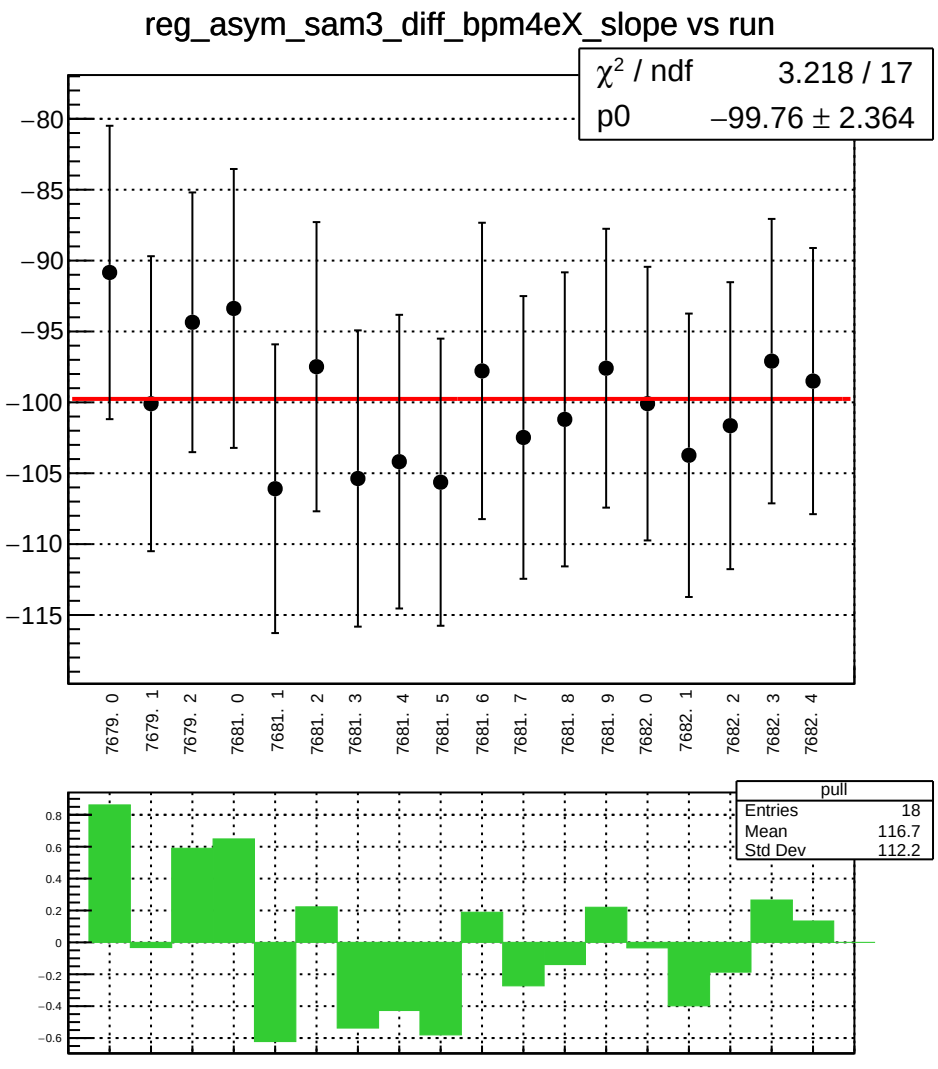

pull1D
Entries 18
Mean 0.002855
Std Dev 0.1275
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

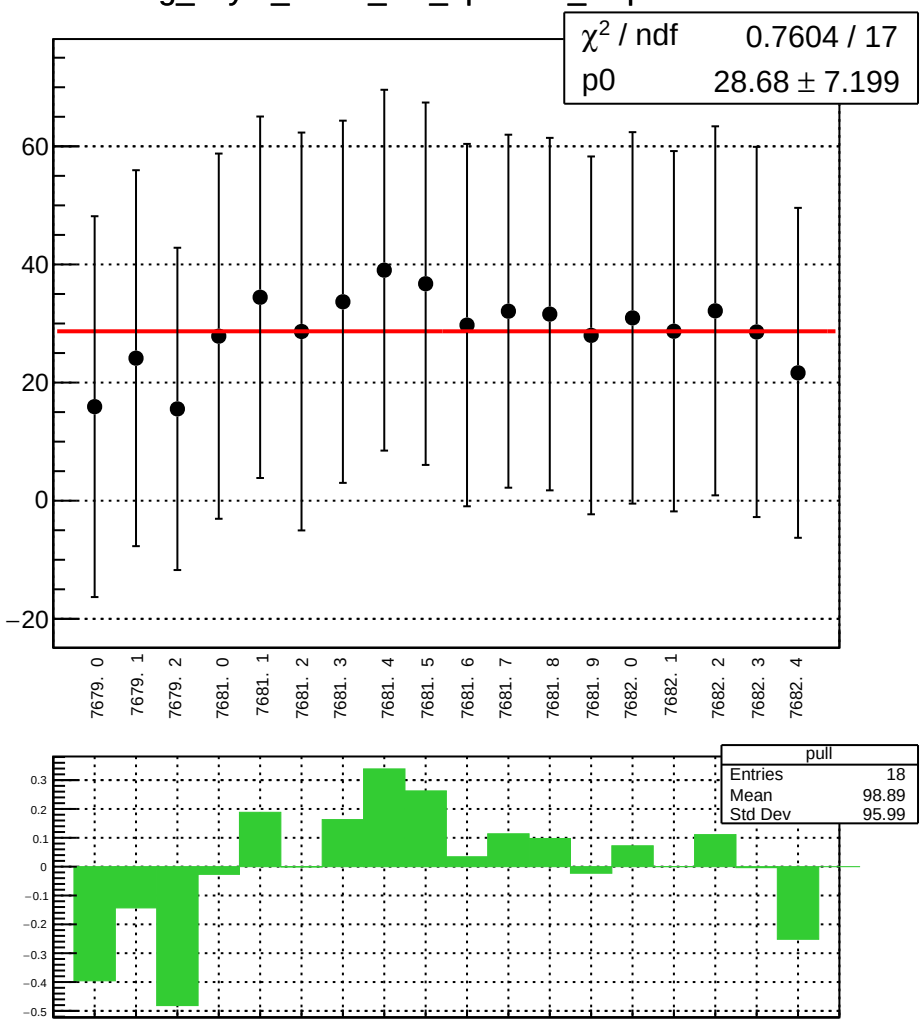

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 0.1812 / 17
p0 0.395 ± 0.6866
4
3
2
1
0
−1
−2
−3
−4
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −2.352e+04
Std Dev 2.353e+04
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull1D
Entries 18
Mean −1.226e−05
Std Dev 0.1003
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

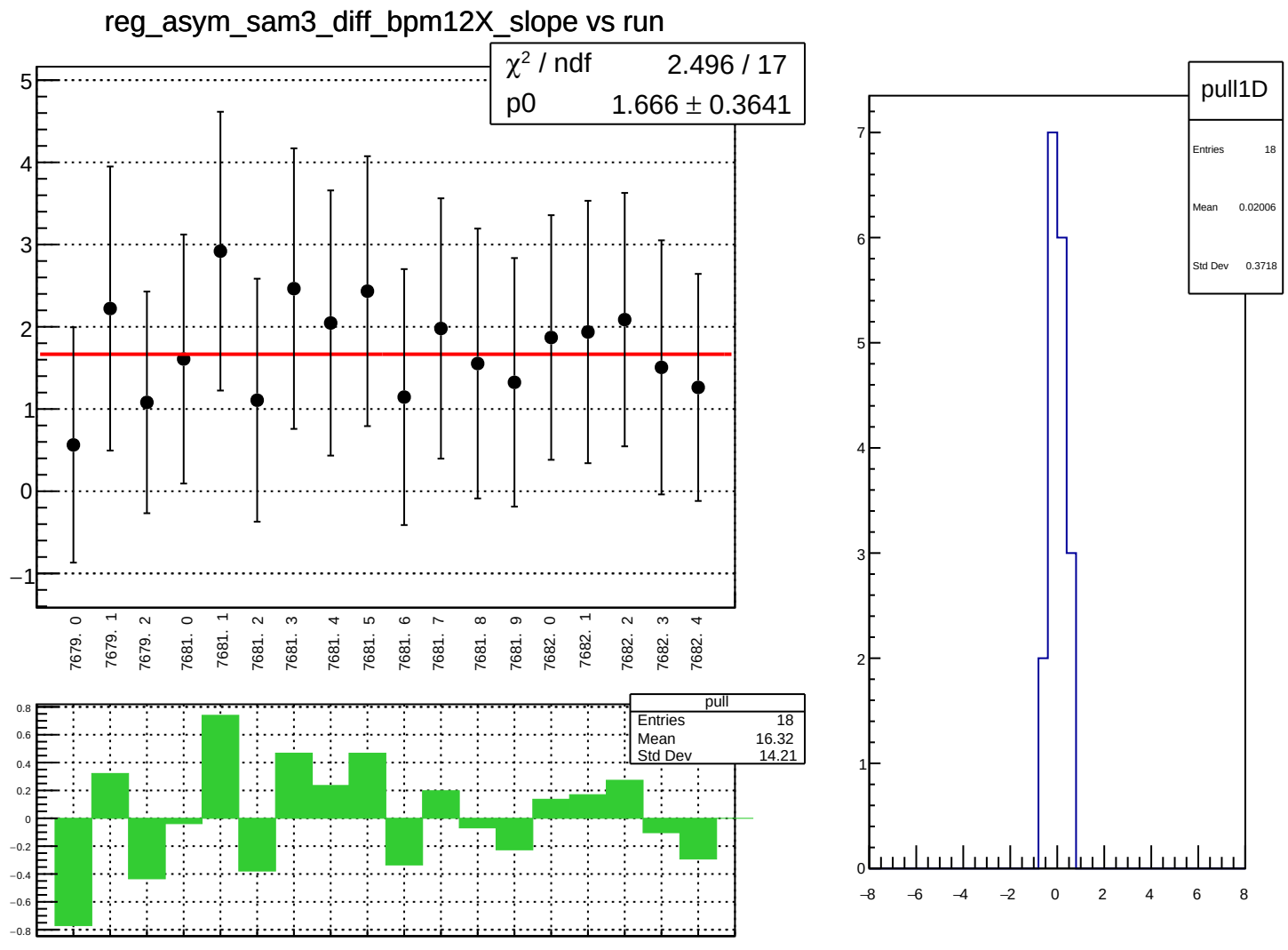

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 3.552 / 17
p0 −11.48 ± 2.918
10
0
−10
−20
−30
−40
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 80.44
Std Dev 77.07
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 18
Mean 0.006893
Std Dev 0.4441
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

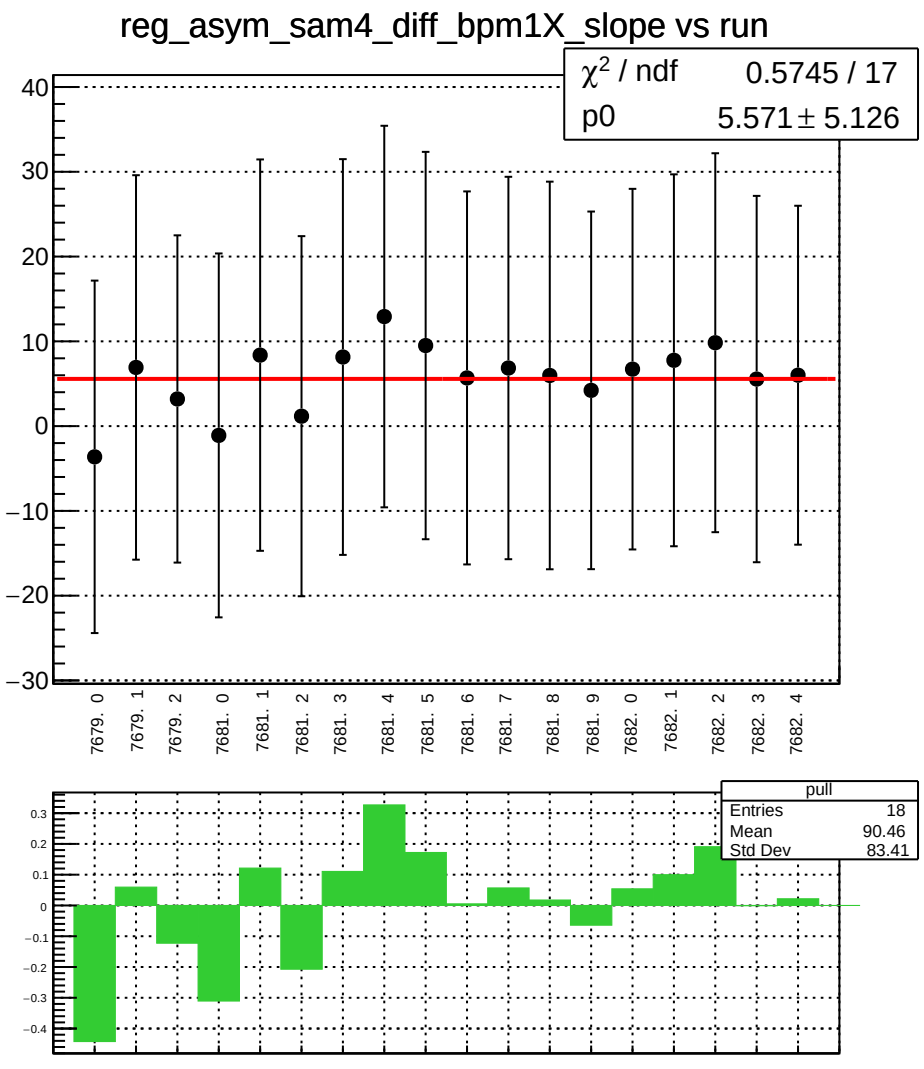

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 0.6229 / 17
p0 −4.727 ± 4.851
30
20
10
0
−10
−20
−30
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −139.5
Std Dev 138.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

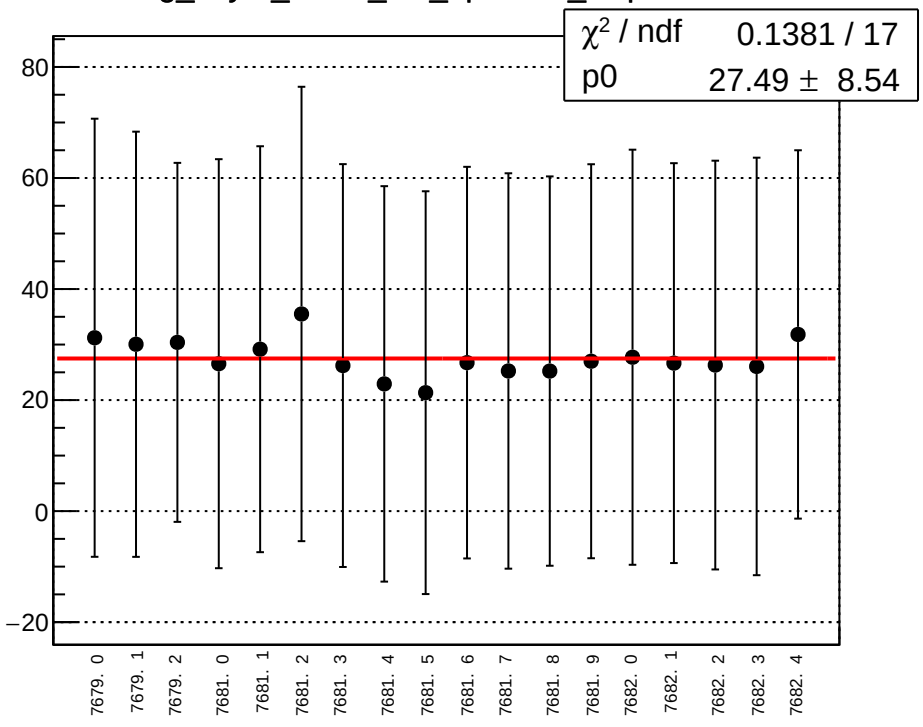

pull1D
Entries 18
Mean 0.001152
Std Dev 0.186
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

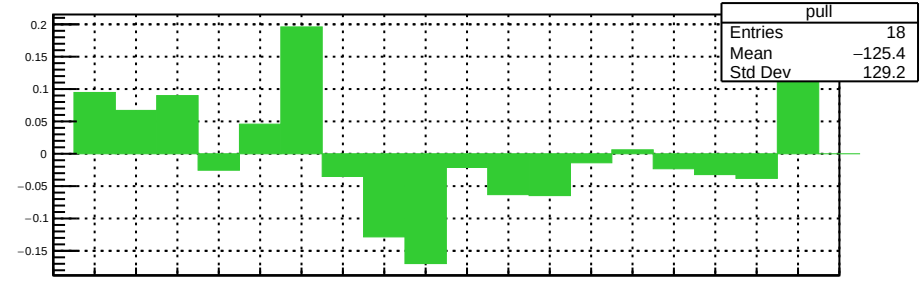

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 3.218 / 17
p0 −99.76 ± 2.364
−80
−85
−90
−95
−100
−105
−110
−115
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 116.7
Std Dev 112.2
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 18
Mean −0.005421
Std Dev 0.4228
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

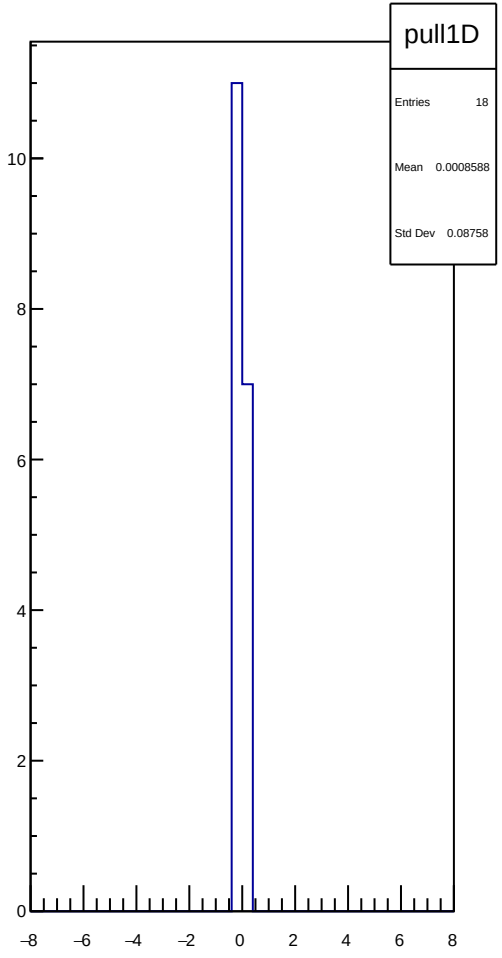

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 0.7604 / 17
p0 28.68 ± 7.199
60
40
20
0
−20
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 98.89
Std Dev 95.99
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
pull1D
Entries 18
Mean 0.003125
Std Dev 0.2055
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

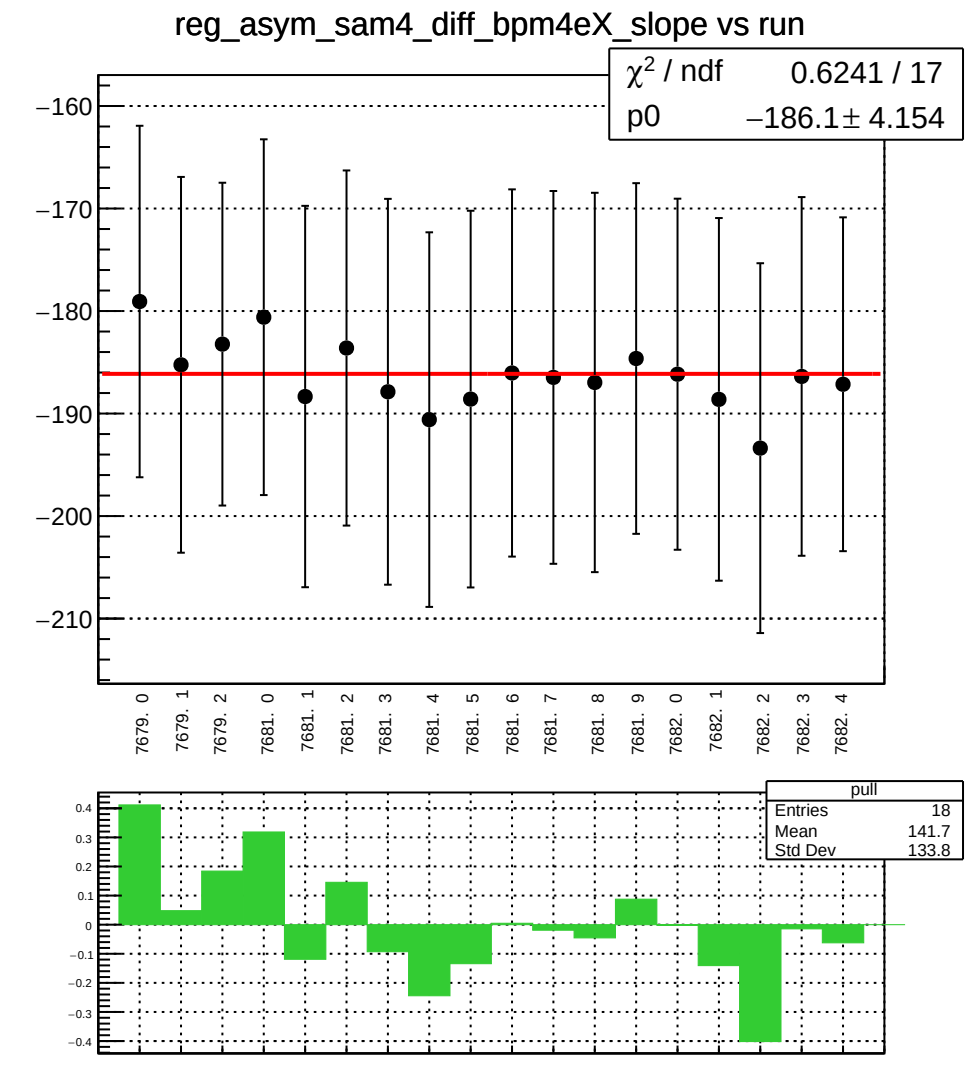

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 2.496 / 17
p0 1.666 ± 0.3641
5
4
3
2
1
0
−1
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 16.32
Std Dev 14.21
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 18
Mean 0.02006
Std Dev 0.3718
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

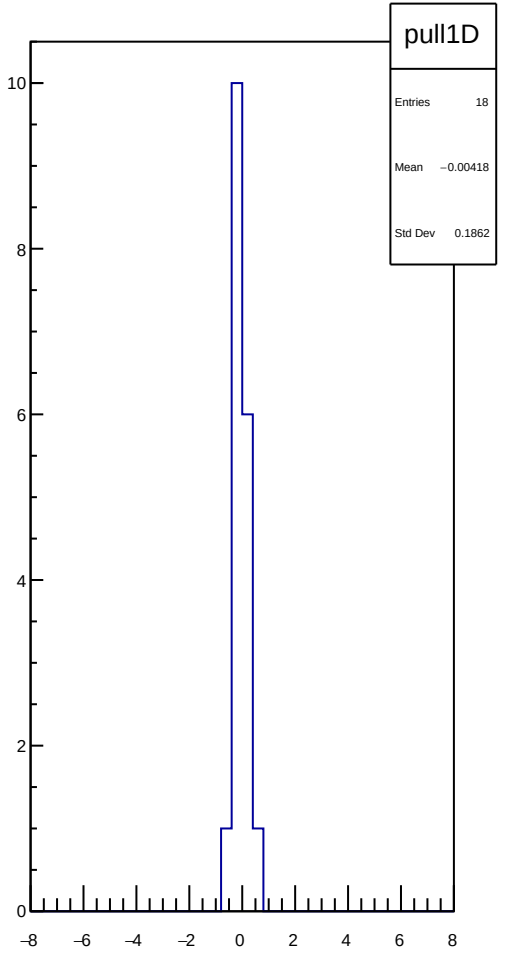

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 0.5745 / 17
p0 5.571 ± 5.126
40
30
20
10
0
−10
−20
−30
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 90.46
Std Dev 83.41
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 18
Mean 0.004953
Std Dev 0.1786
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

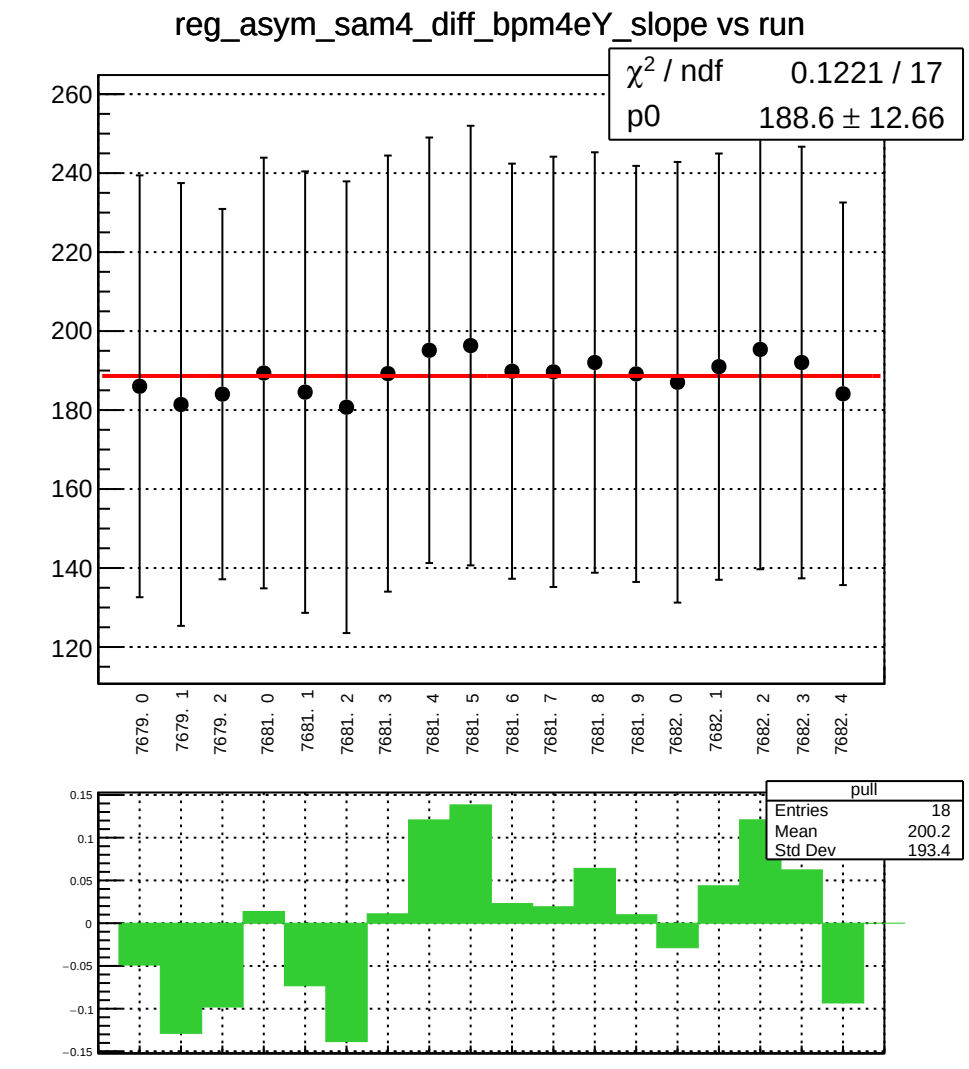

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 0.1381 / 17
p0 27.49 ± 8.54
80
60
40
20
0
−20
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

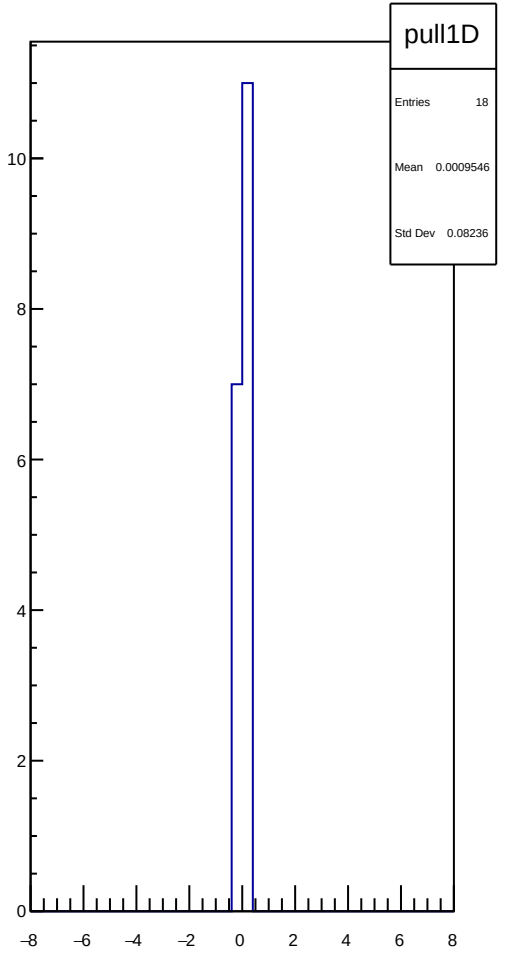

pull
Entries 18
Mean −125.4
Std Dev 129.2
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15

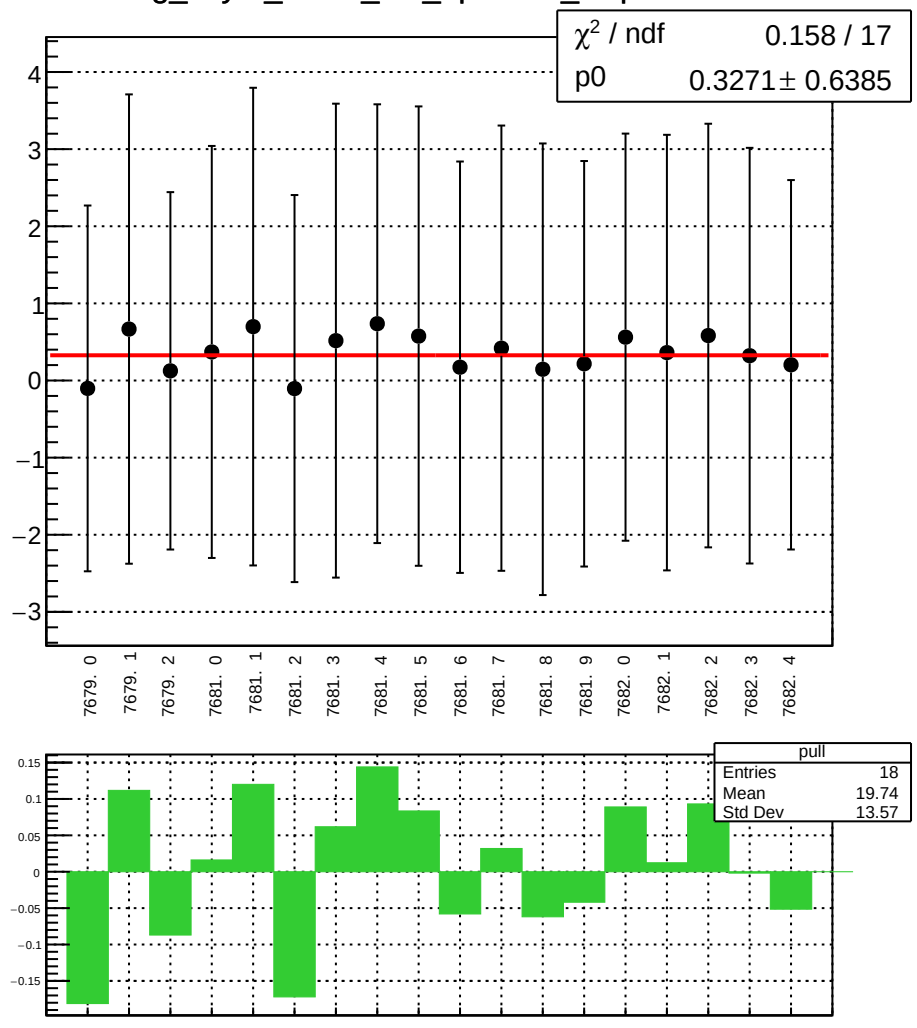

pull1D
Entries 18
Mean 0.0008588
Std Dev 0.08758
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

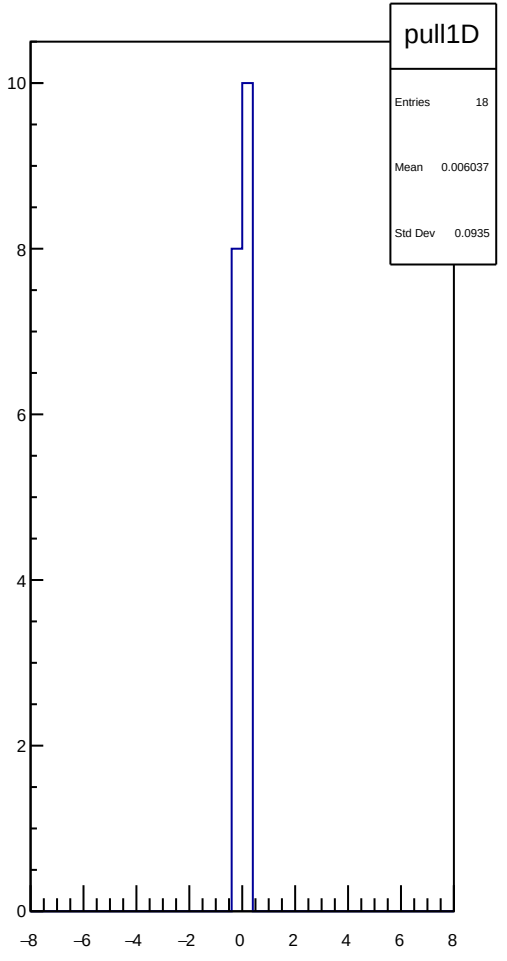

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 0.6241 / 17
p0 −186.1± 4.154
−160
−170
−180
−190
−200
−210
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 141.7
Std Dev 133.8
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

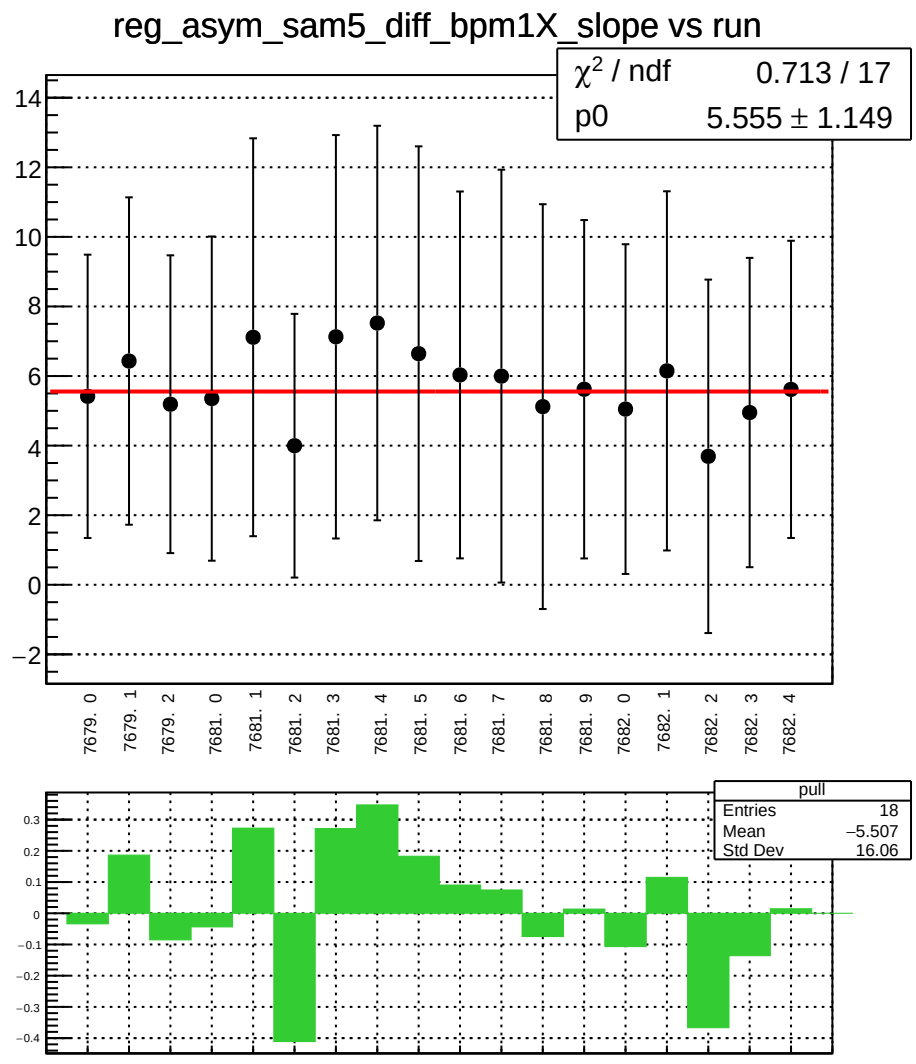

pull1D
Entries 18
Mean −0.00418
Std Dev 0.1862
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

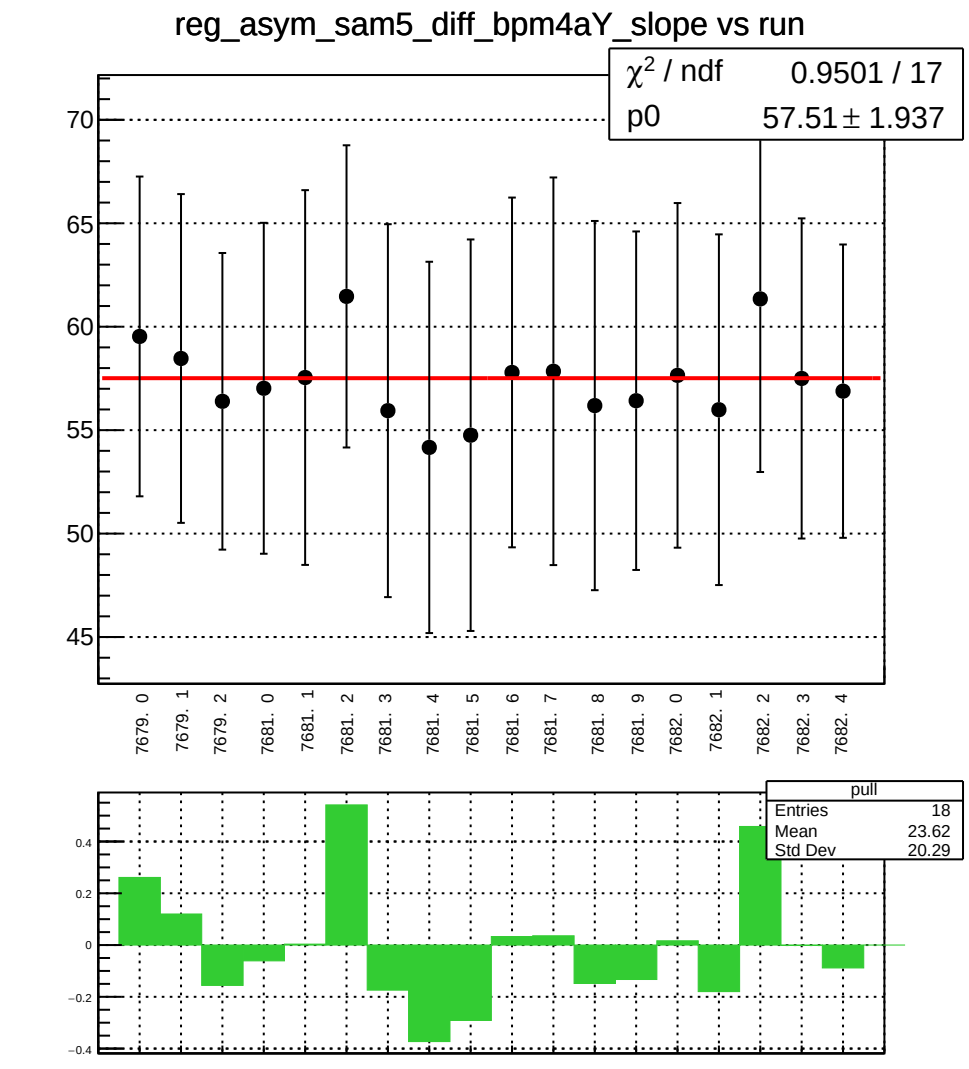

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 0.1221 / 17
p0 188.6 ± 12.66
260
240
220
200
180
160
140
120
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 200.2
Std Dev 193.4
0.15
0.1
0.05
0
−0.05
−0.1
−0.15

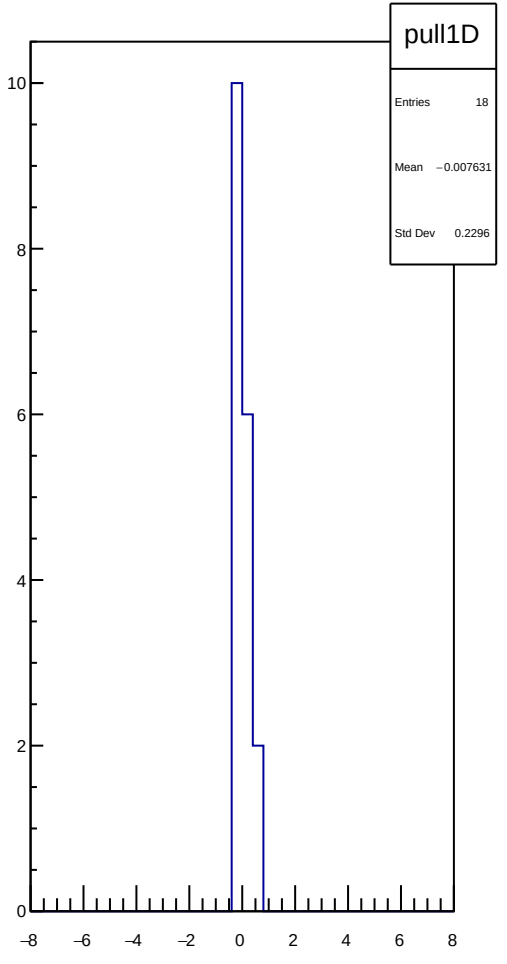

pull1D
Entries 18
Mean 0.0009546
Std Dev 0.08236
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

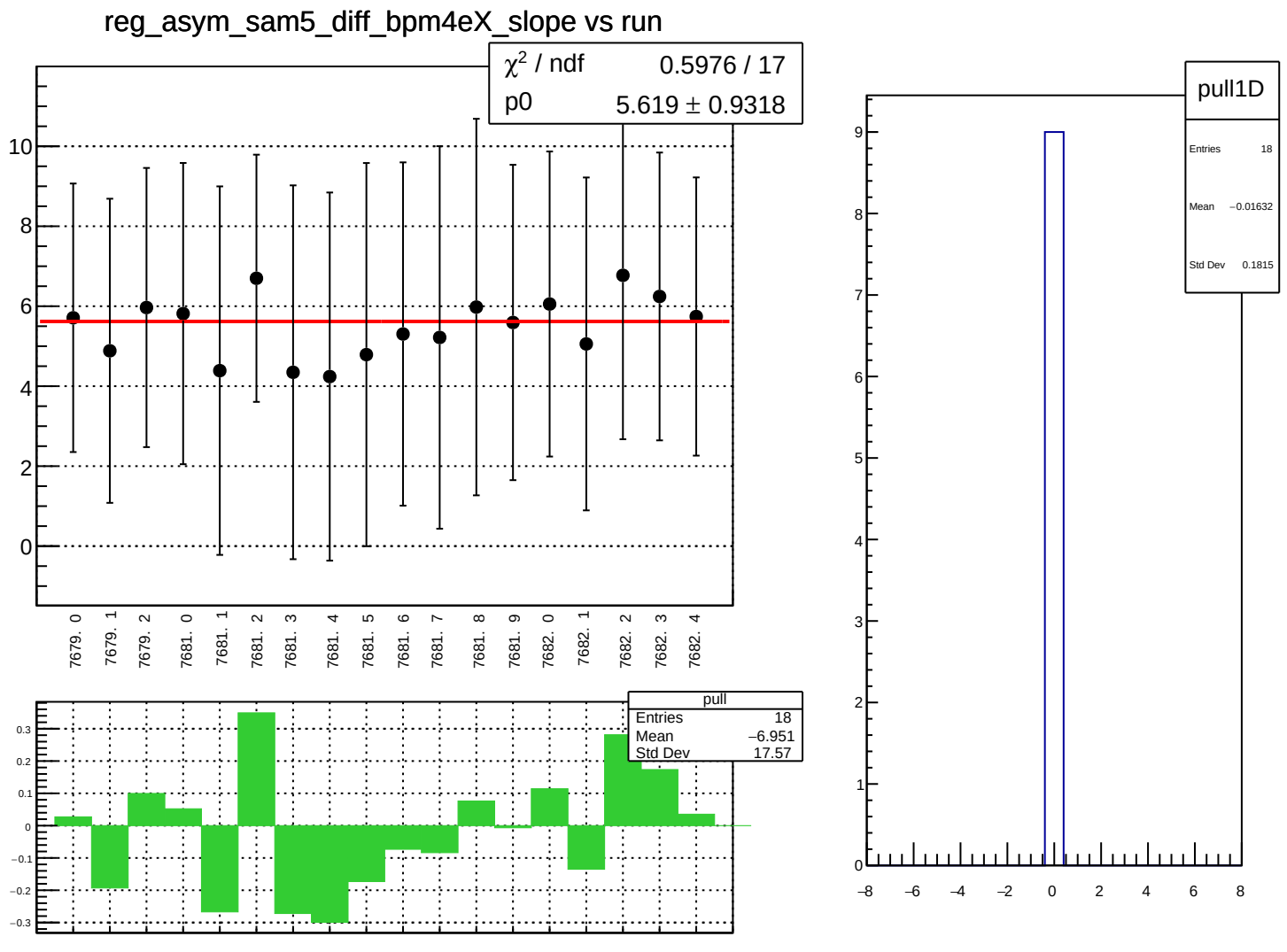

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 0.158 / 17
p0 0.3271 ± 0.6385
4
3
2
1
0
−1
−2
−3
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 19.74
Std Dev 13.57
0.15
0.1
0.05
0
−0.05
−0.1
−0.15

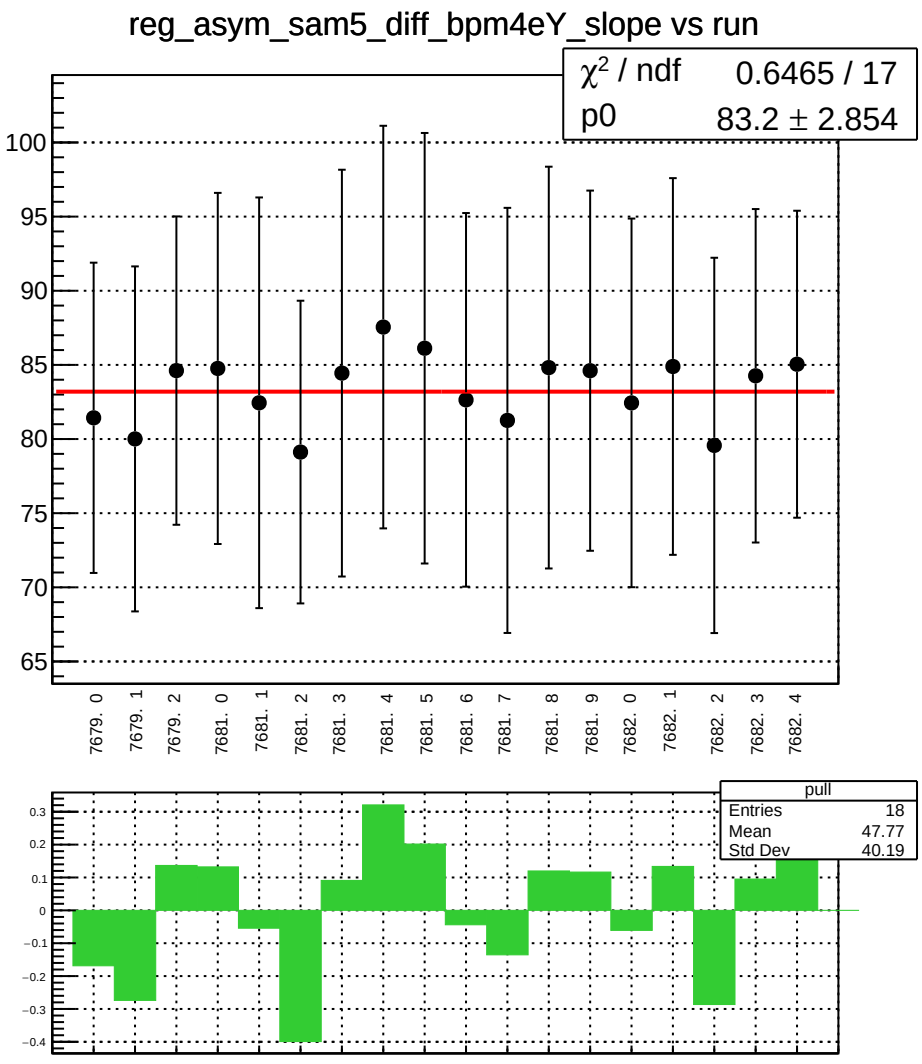

pull1D
Entries 18
Mean 0.006037
Std Dev 0.0935
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

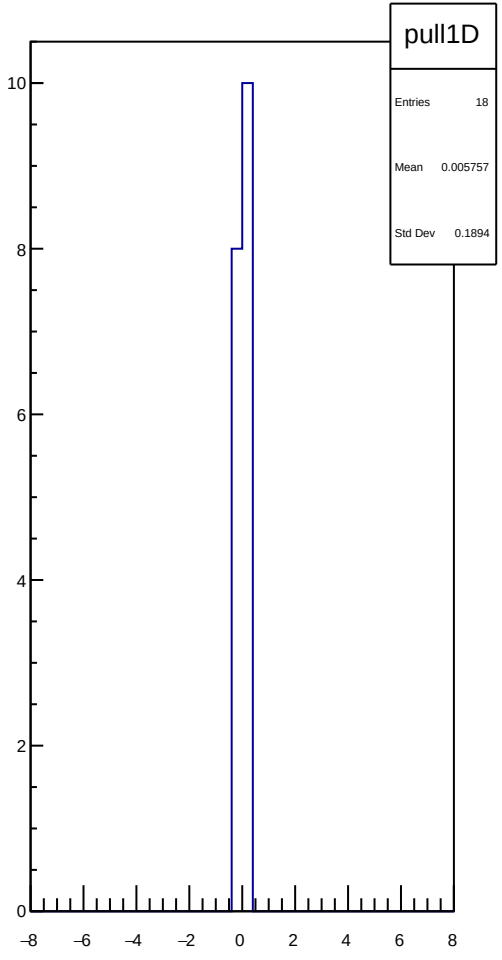

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 0.713 / 17
p0 5.555 ± 1.149
14
12
10
8
6
4
2
0
−2
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −5.507
Std Dev 16.06
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 18
Mean 0.01725
Std Dev 0.1983
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

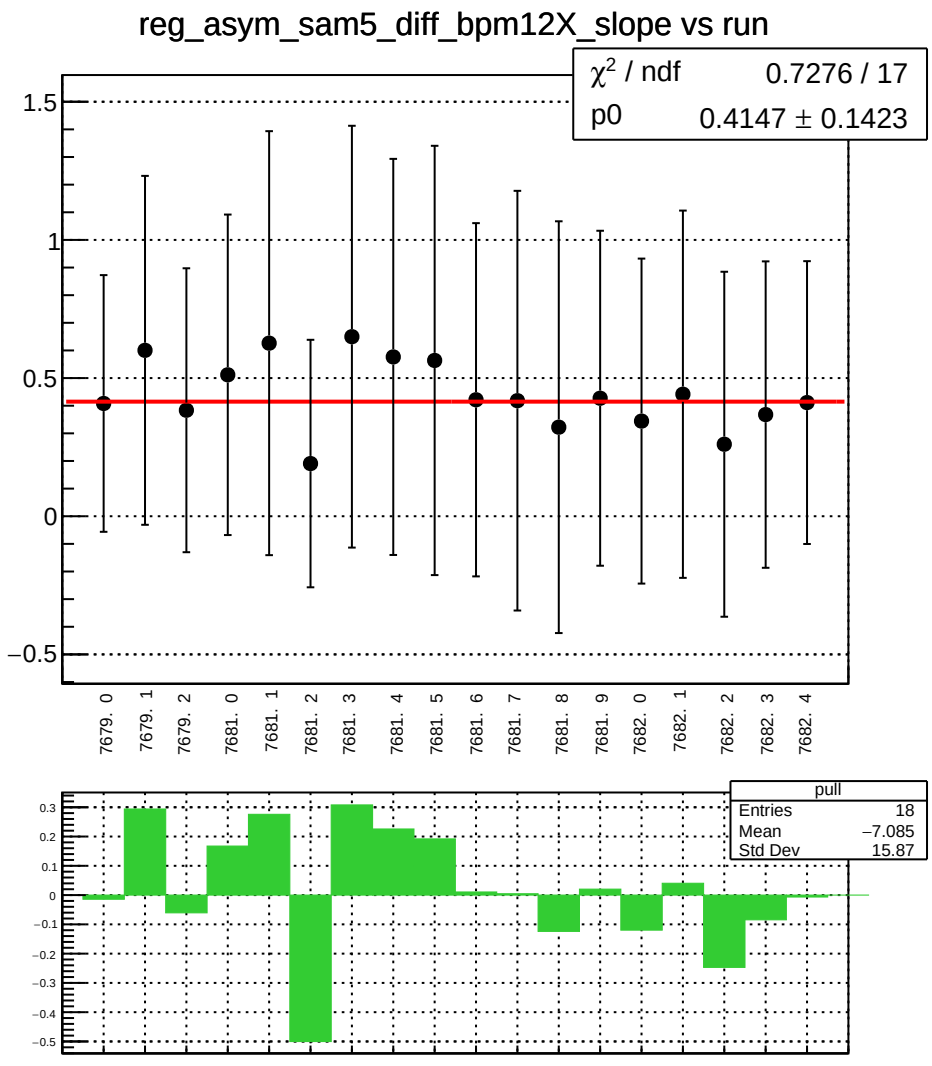

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 0.9501 / 17
p0 57.51 ± 1.937
70
65
60
55
50
45
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 23.62
Std Dev 20.29
0.4
0.2
0
−0.2
−0.4

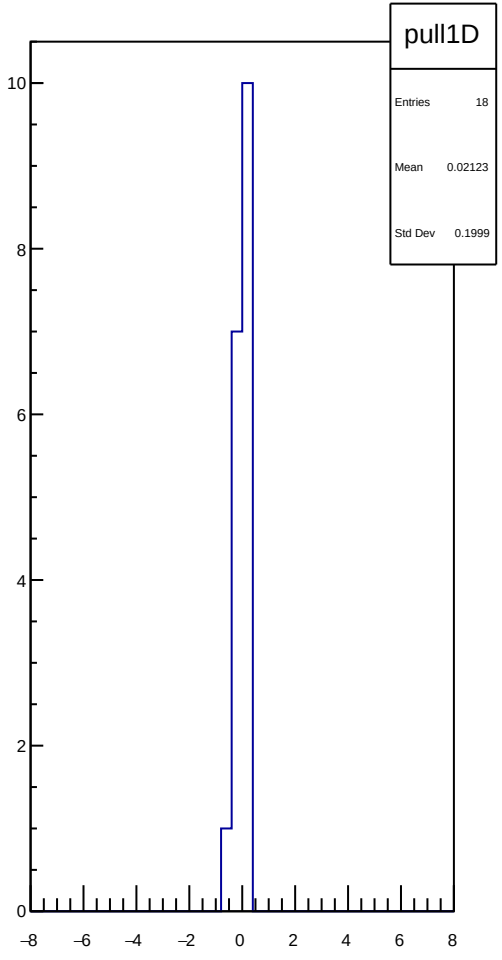

pull1D
Entries 18
Mean −0.007631
Std Dev 0.2296
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

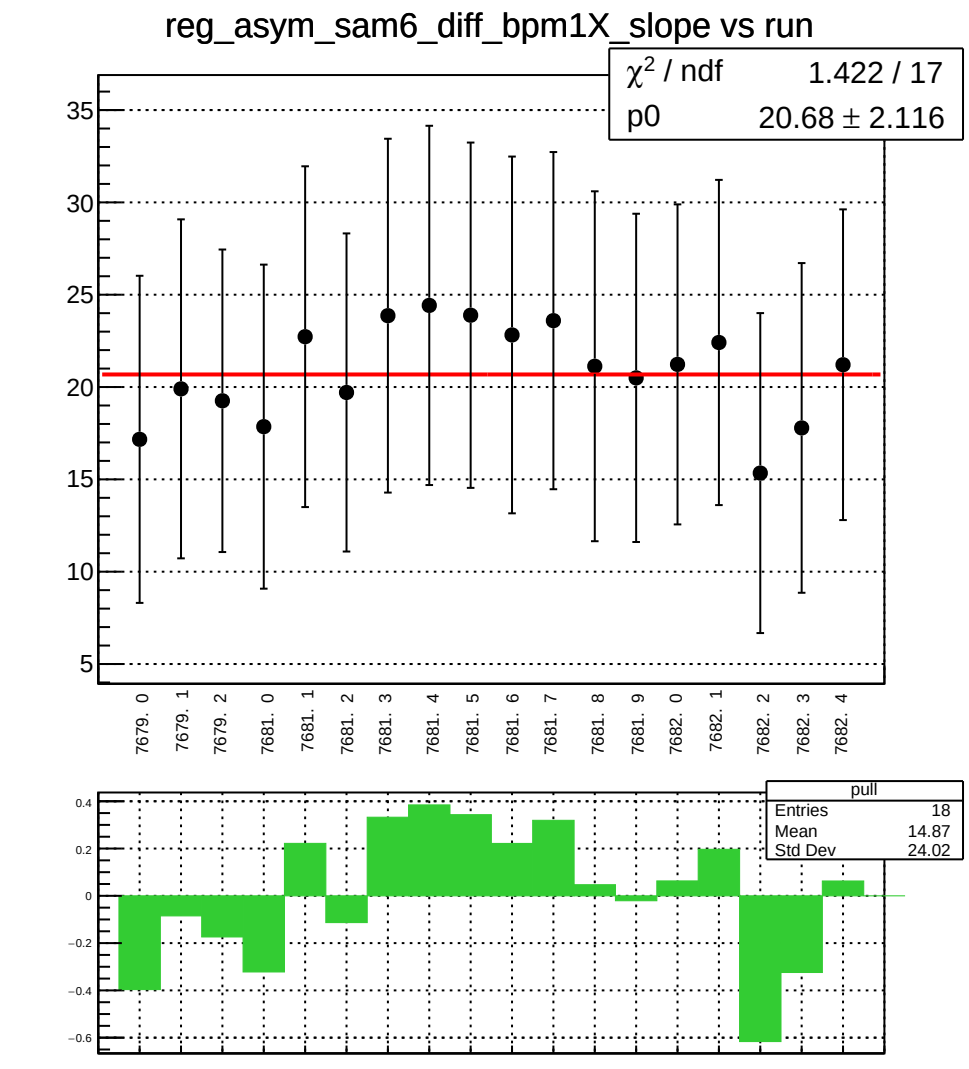

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 0.5976 / 17
p0 5.619 ± 0.9318
10
8
6
4
2
0
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −6.951
Std Dev 17.57
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 18
Mean −0.01632
Std Dev 0.1815
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

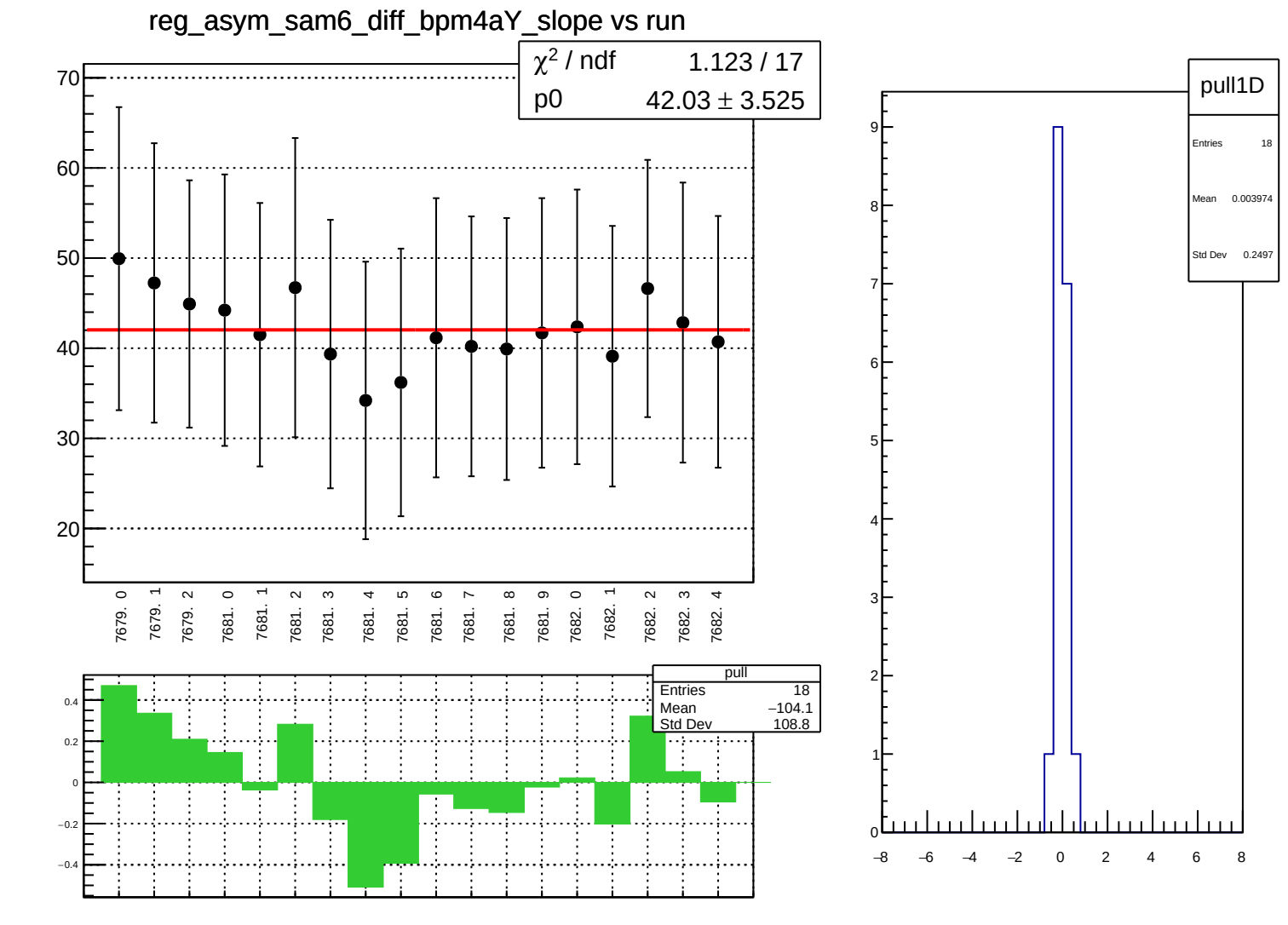

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 0.6465 / 17
p0 83.2 ± 2.854
100
95
90
85
80
75
70
65
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 47.77
Std Dev 40.19
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

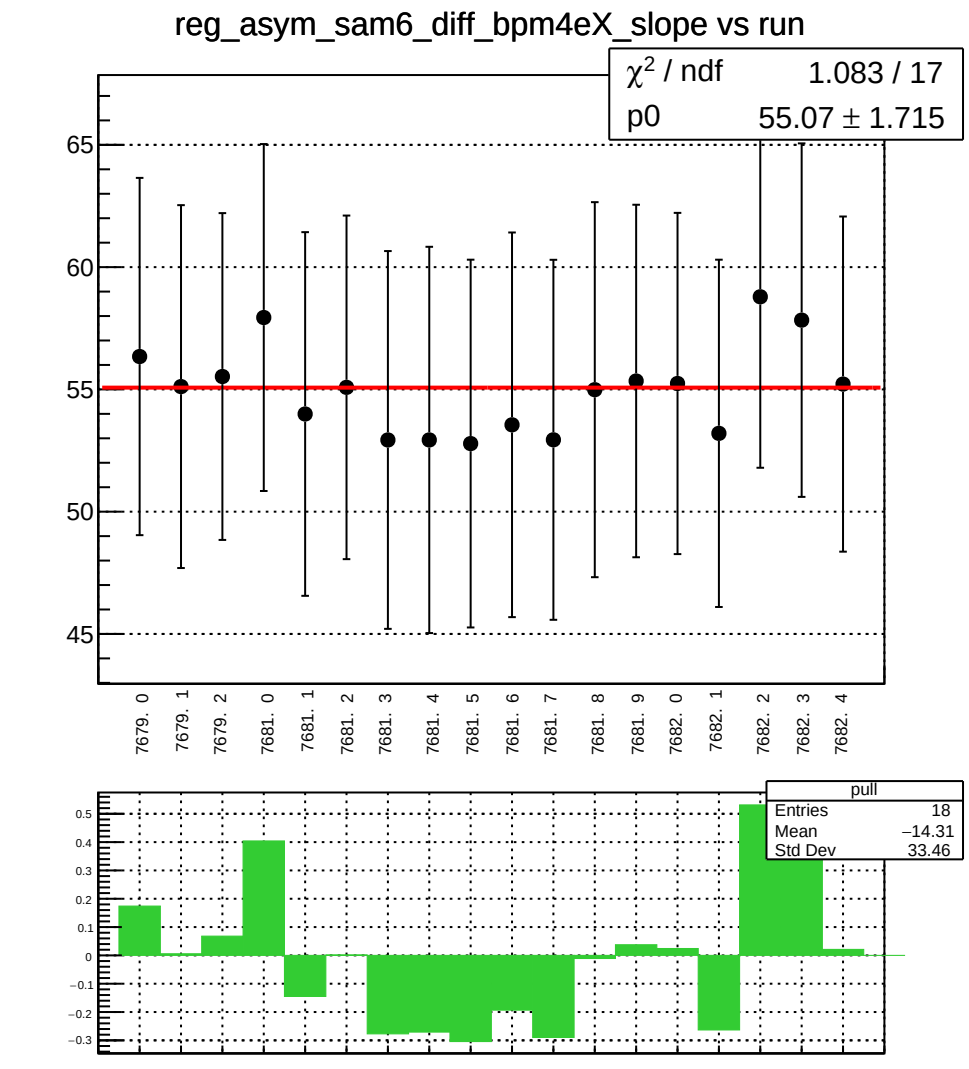

pull1D
Entries 18
Mean 0.005757
Std Dev 0.1894
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

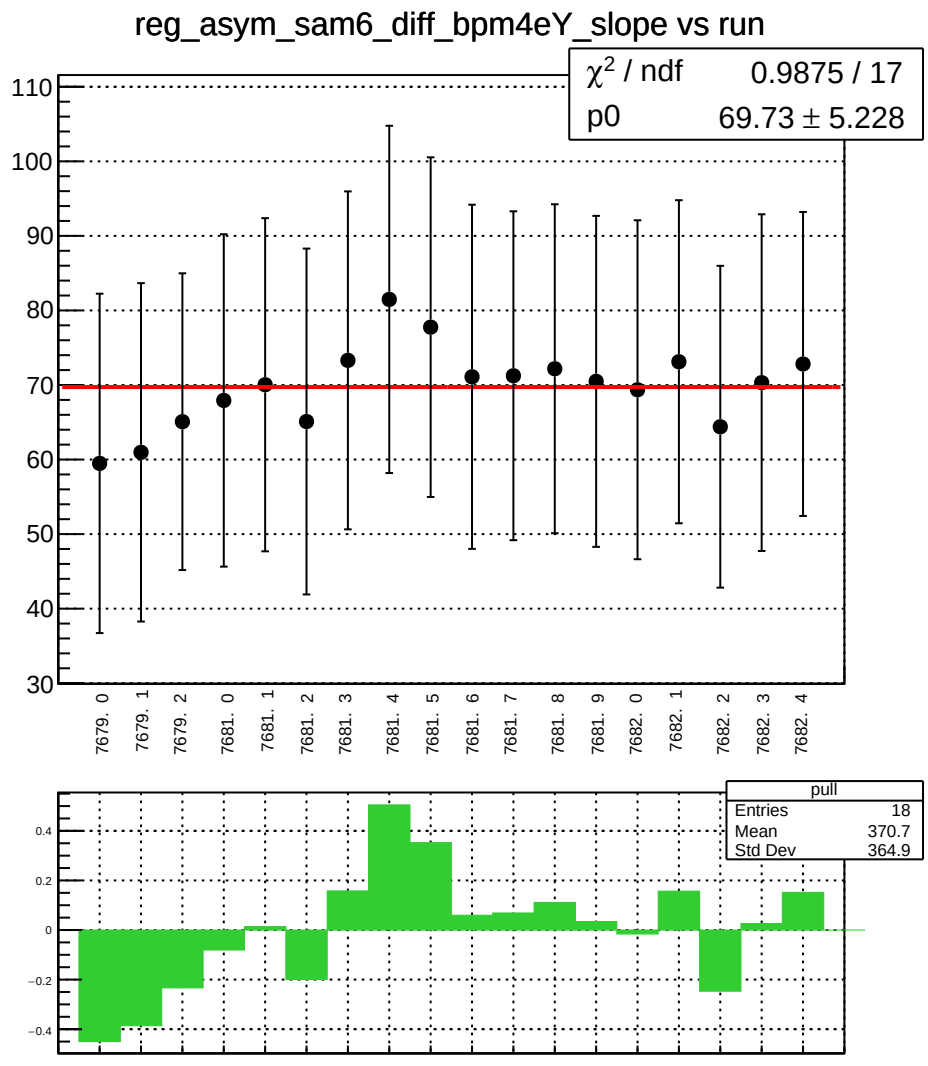

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 0.7276 / 17
p0 0.4147 ± 0.1423
1.5
1
0.5
0
−0.5
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −7.085
Std Dev 15.87
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5

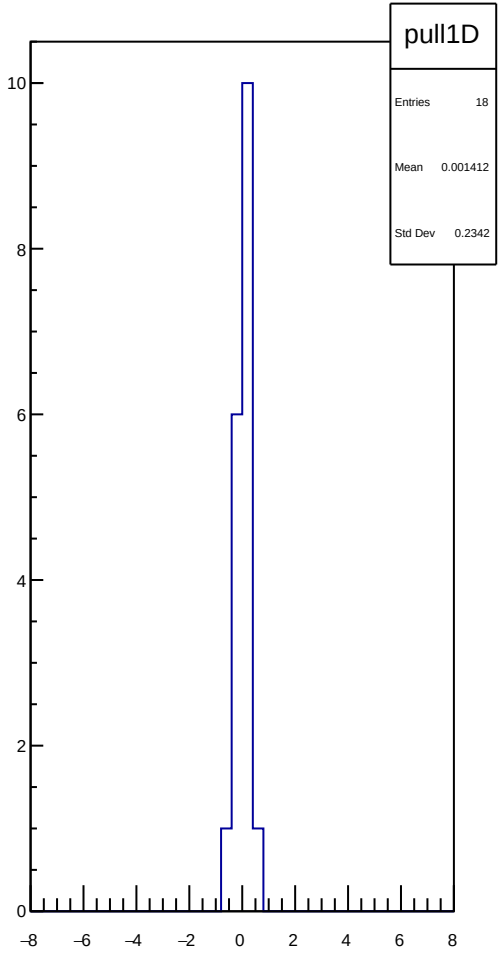

pull1D
Entries 18
Mean 0.02123
Std Dev 0.1999
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

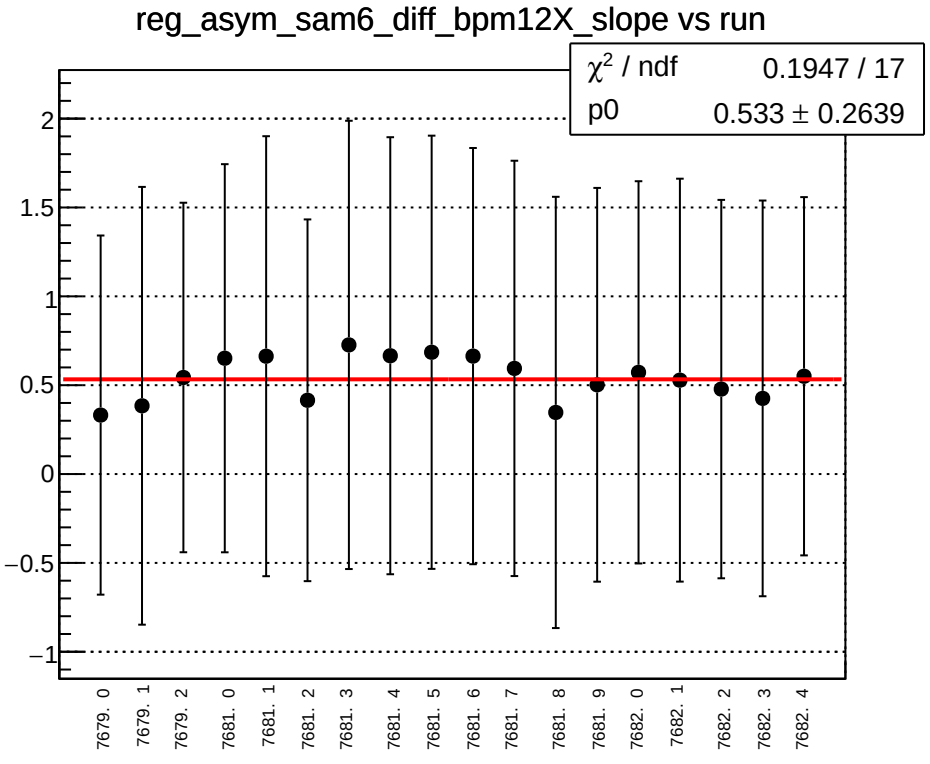

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 1.422 / 17
p0 20.68 ± 2.116
35
30
25
20
15
10
5
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 14.87
Std Dev 24.02
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 18
Mean 0.007789
Std Dev 0.2809
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

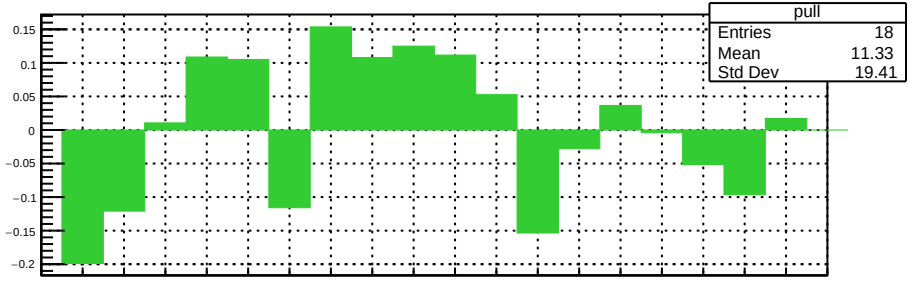

reg_asym_sam6_diff_bpm4aY_slope vs run
χ^2 / ndf 1.123 / 17
p0 42.03 ± 3.525
70
60
50
40
30
20
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −104.1
Std Dev 108.8
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 18
Mean 0.003974
Std Dev 0.2497
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

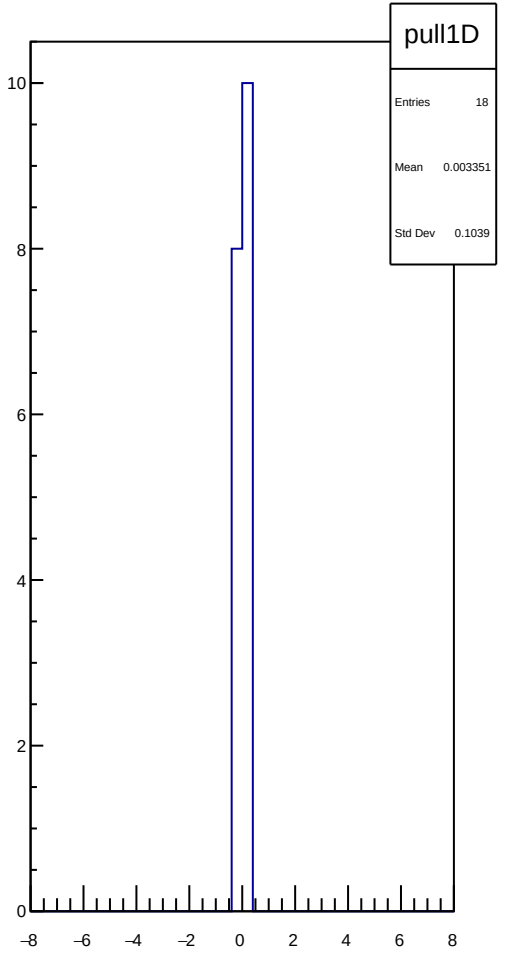

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 1.083 / 17
p0 55.07 ± 1.715
65
60
55
50
45
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −14.31
Std Dev 33.46
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 18
Mean −0.00582
Std Dev 0.2453
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

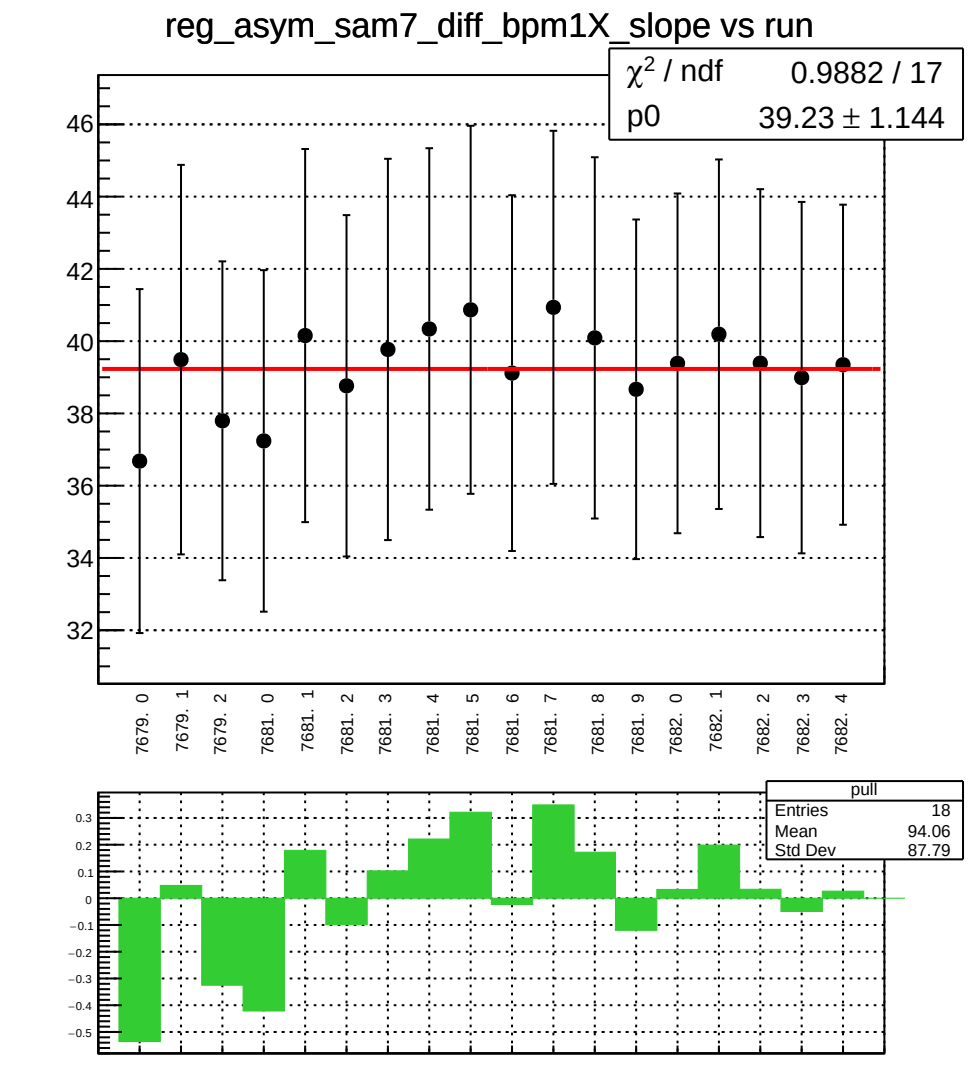

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 0.9875 / 17
p0 69.73 ± 5.228
110
100
90
80
70
60
50
40
30
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 370.7
Std Dev 364.9
0.4
0.2
0
−0.2
−0.4

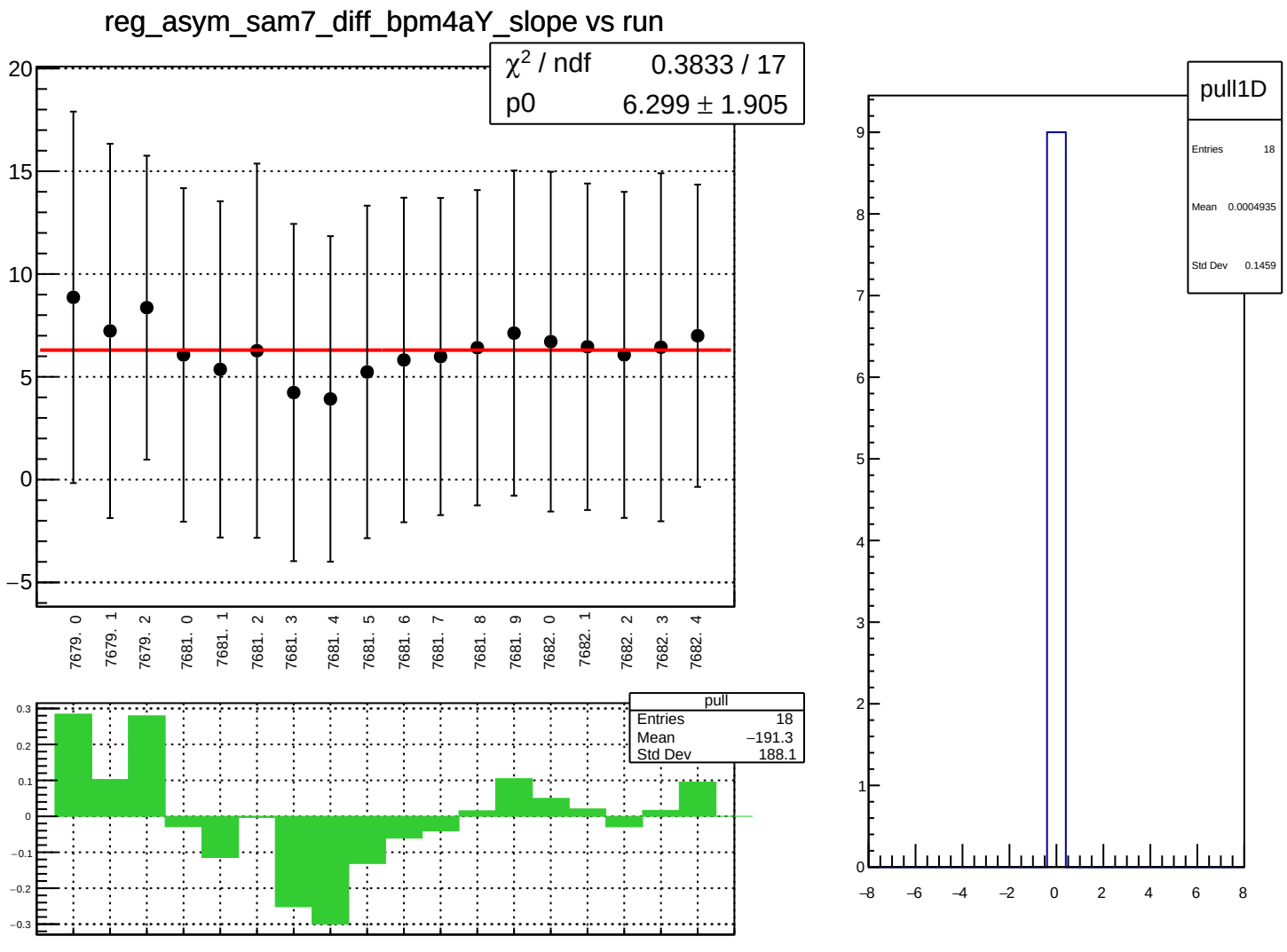

pull1D
Entries 18
Mean 0.001412
Std Dev 0.2342
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

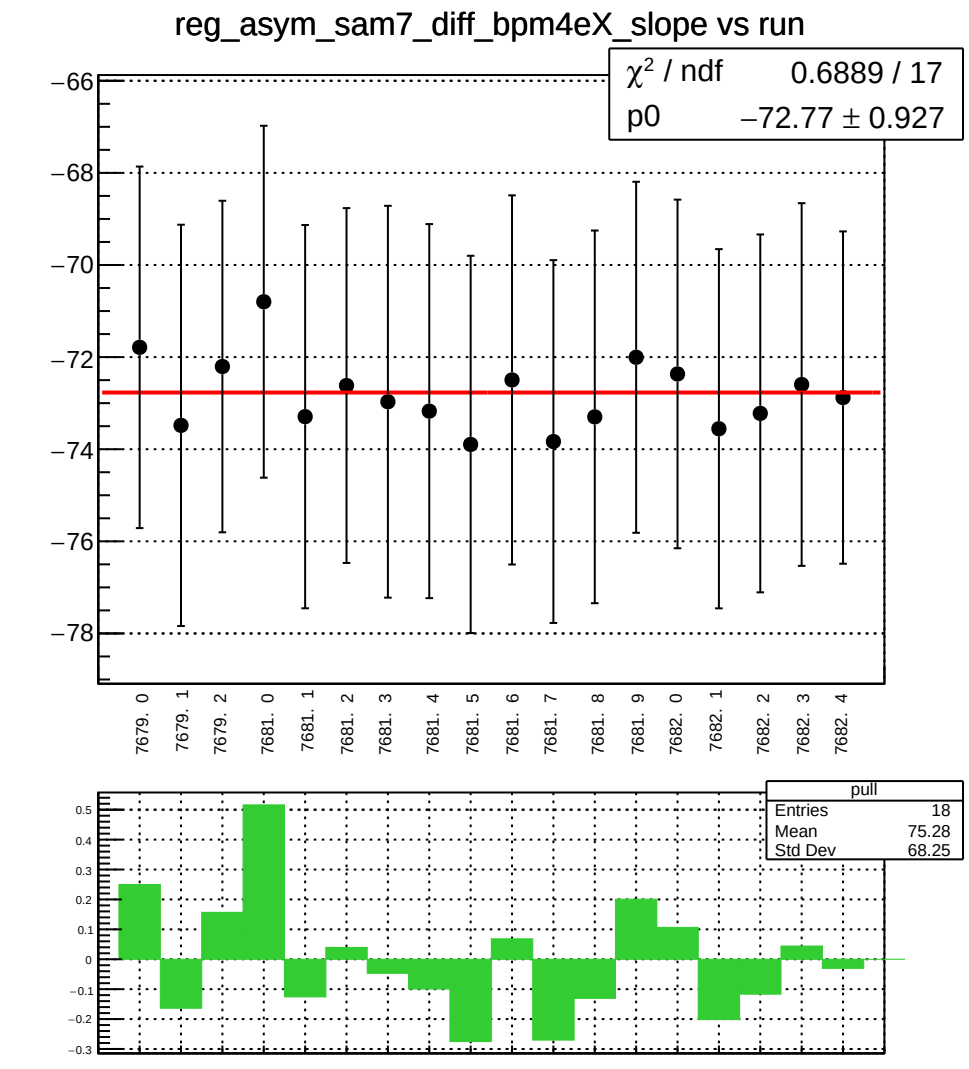

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 0.1947 / 17
p0 0.533 ± 0.2639
2
1.5
1
0.5
0
−0.5
−1
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

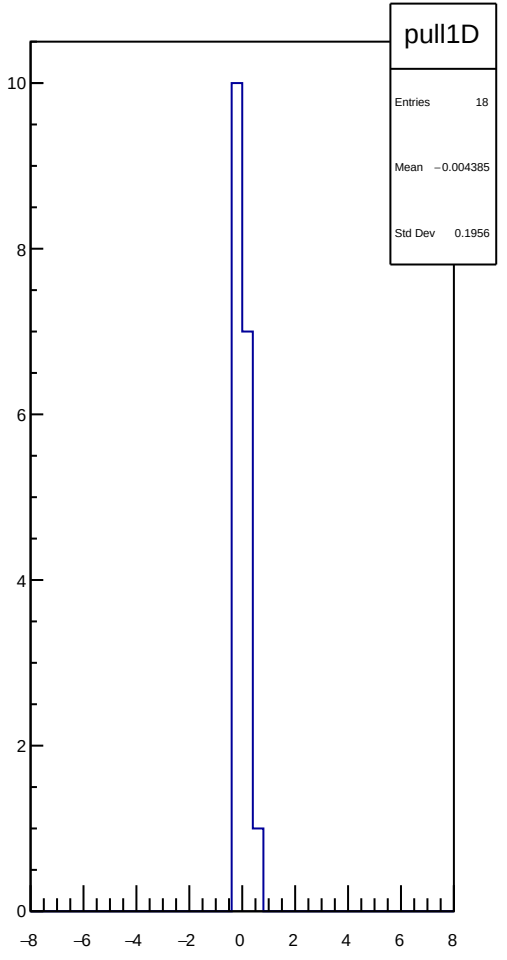

pull
Entries 18
Mean 11.33
Std Dev 19.41
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2

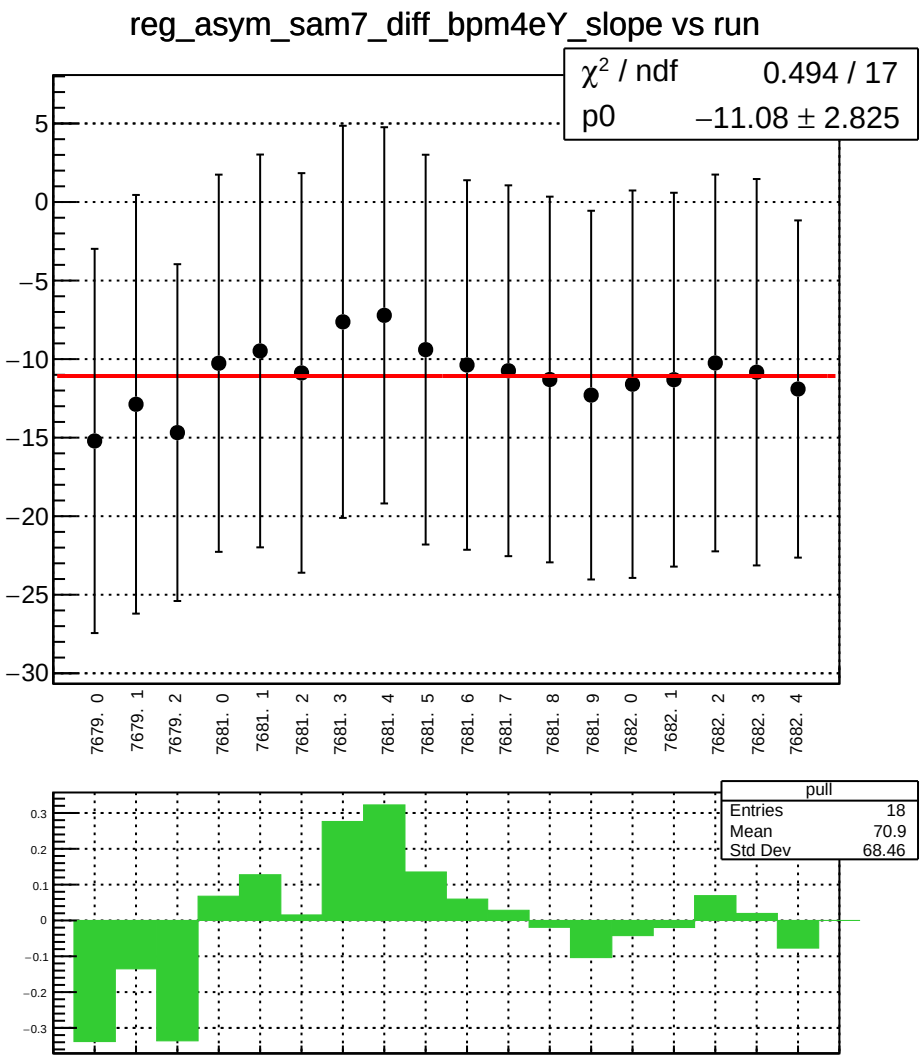

pull1D
Entries 18
Mean 0.003351
Std Dev 0.1039
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

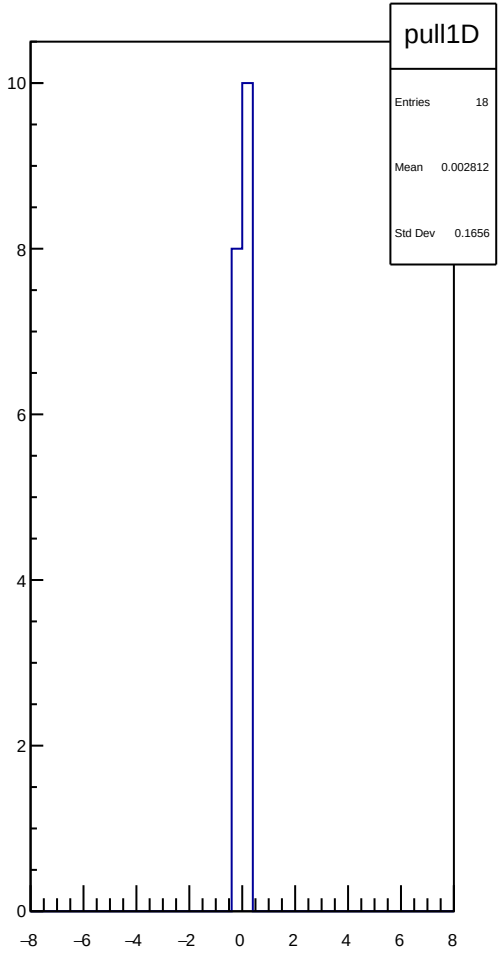

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 0.9882 / 17
p0 39.23 ± 1.144
46
44
42
40
38
36
34
32
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 94.06
Std Dev 87.79
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
pull1D
Entries 18
Mean 0.006043
Std Dev 0.2342
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

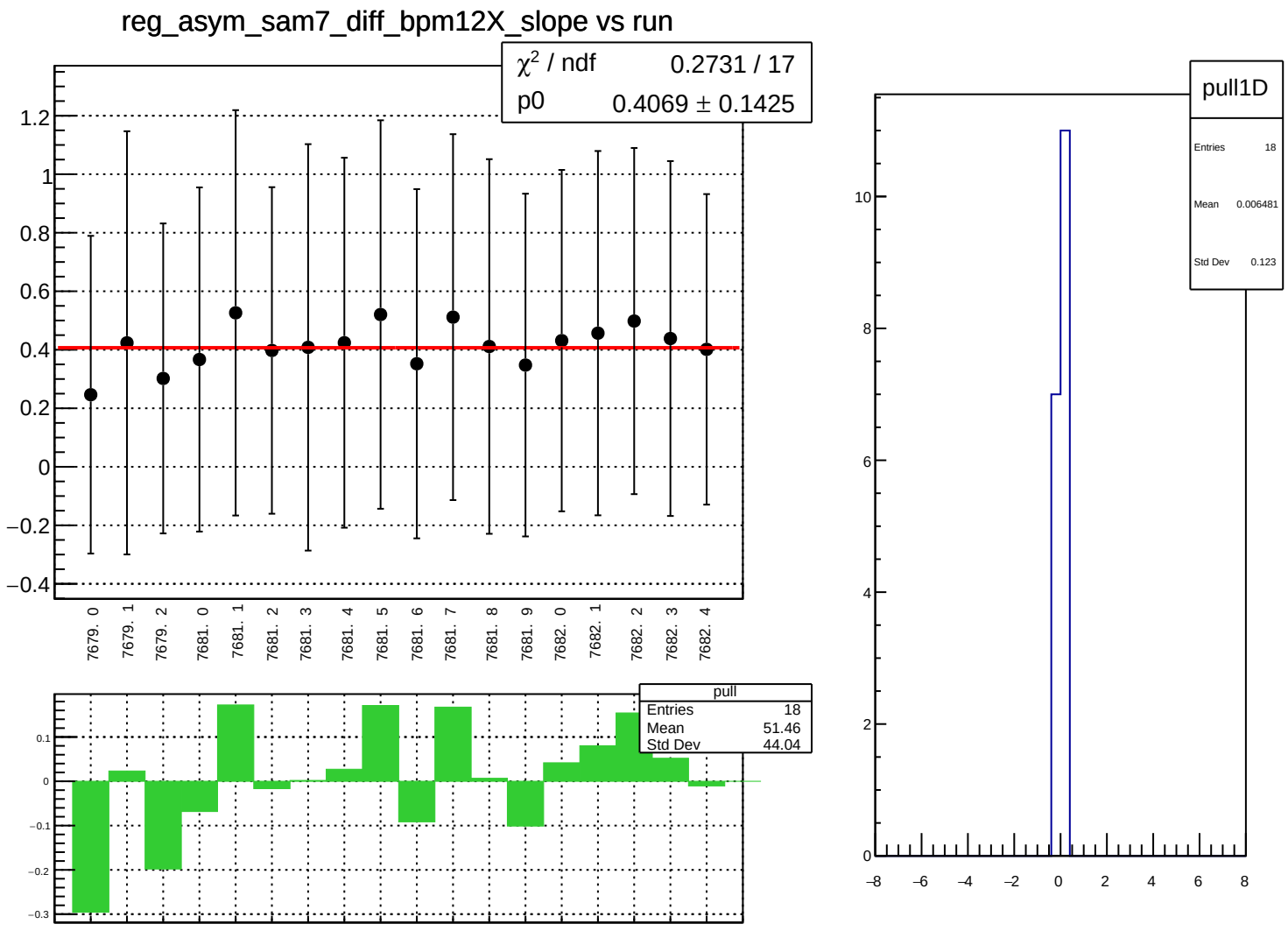

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 0.3833 / 17
p0 6.299 ± 1.905
20
15
10
5
0
−5
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −191.3
Std Dev 188.1
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 18
Mean 0.0004935
Std Dev 0.1459
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

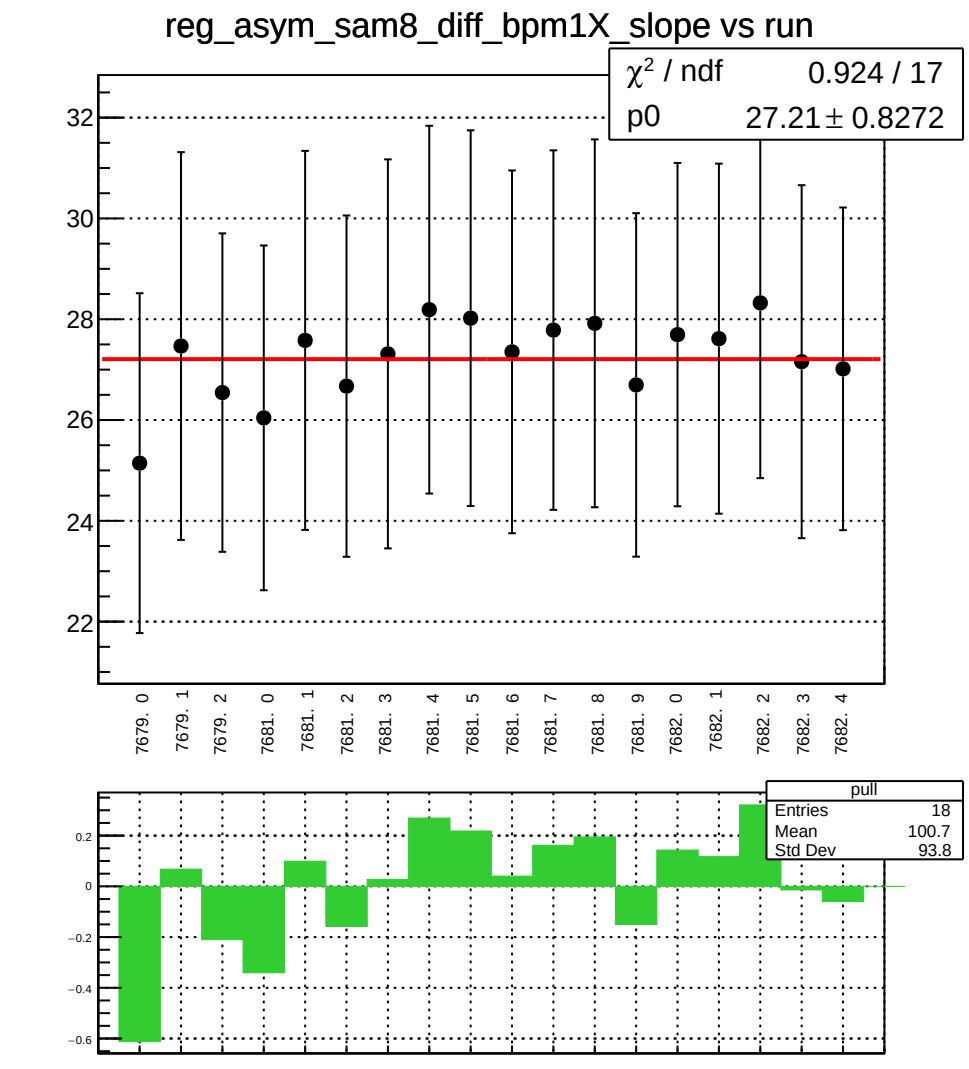

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 0.6889 / 17
p0 −72.77 ± 0.927
−66
−68
−70
−72
−74
−76
−78
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 75.28
Std Dev 68.25
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

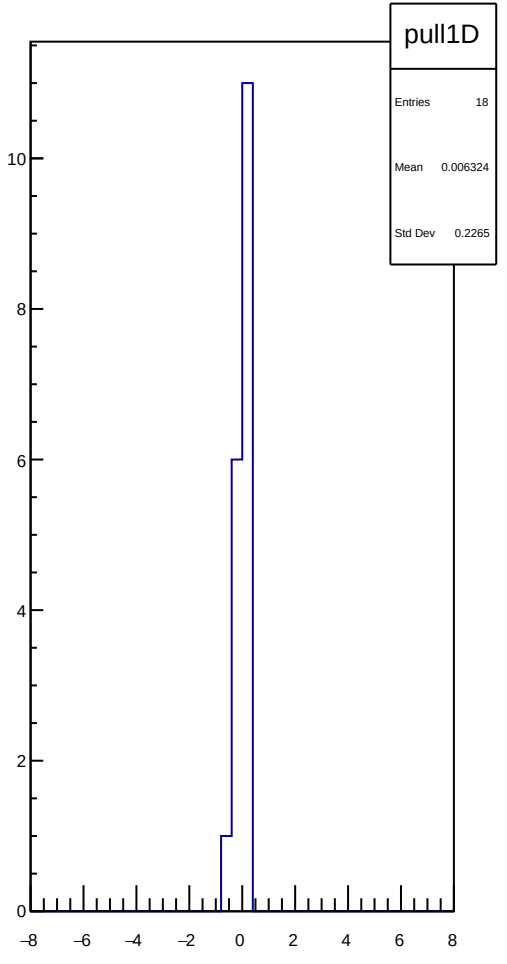

pull1D
Entries 18
Mean −0.004385
Std Dev 0.1956
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

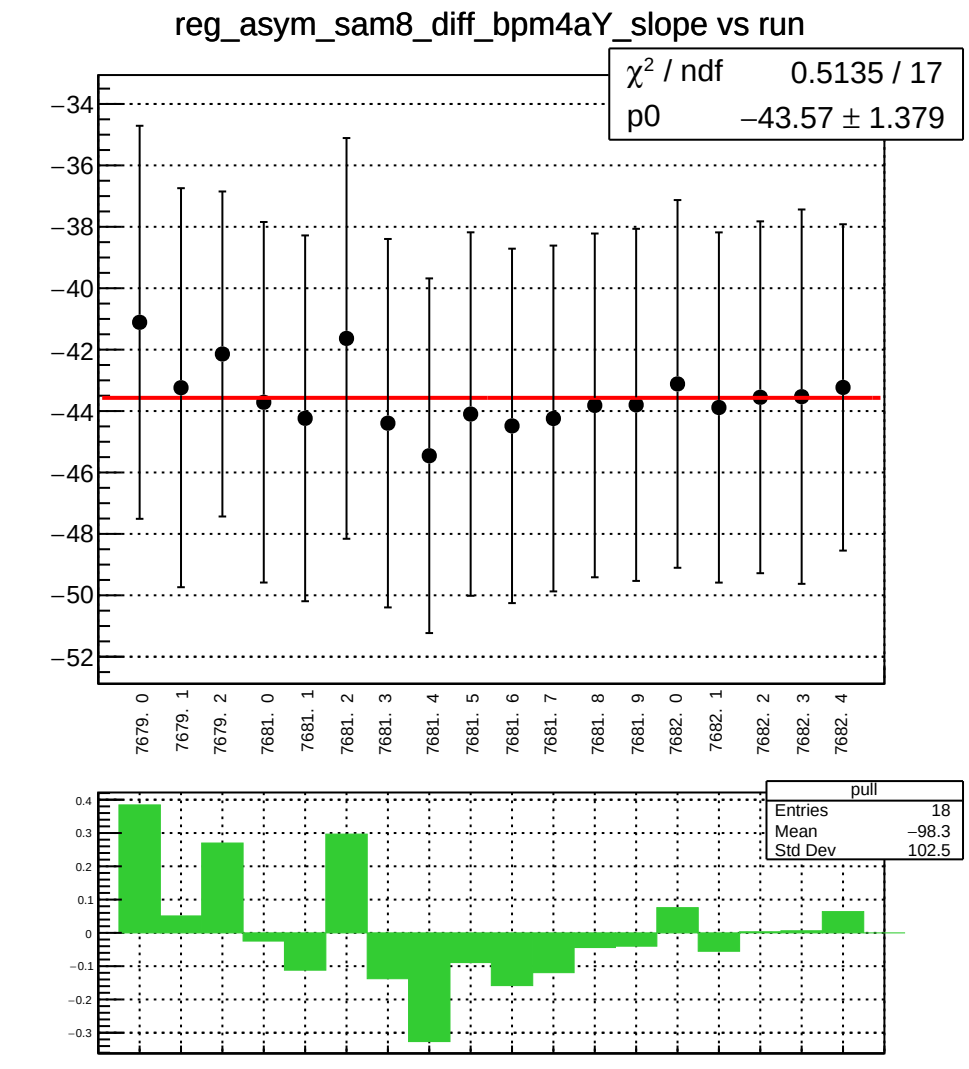

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 0.494 / 17
p0 −11.08 ± 2.825
5
0
−5
−10
−15
−20
−25
−30
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 70.9
Std Dev 68.46
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

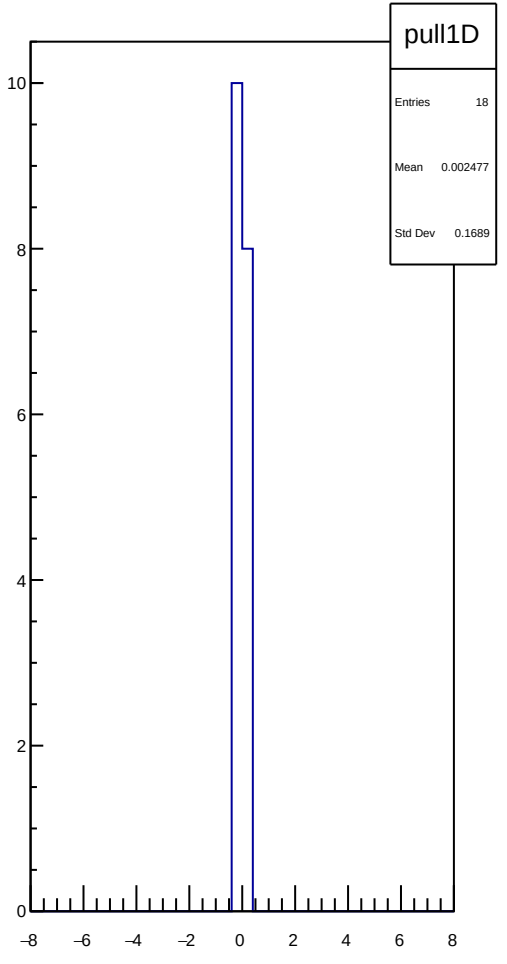

pull1D
Entries 18
Mean 0.002812
Std Dev 0.1656
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

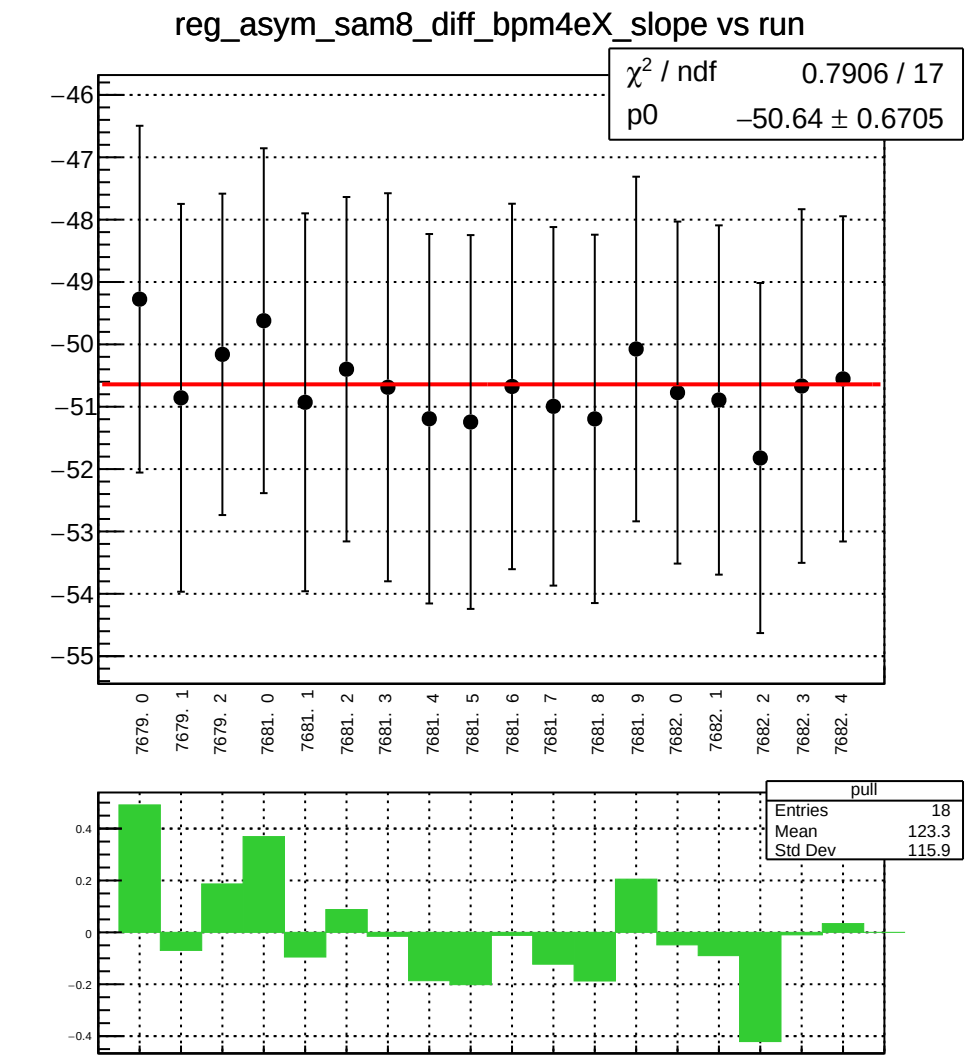

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 0.2731 / 17
p0 0.4069 ± 0.1425
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 51.46
Std Dev 44.04
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 18
Mean 0.006481
Std Dev 0.123
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

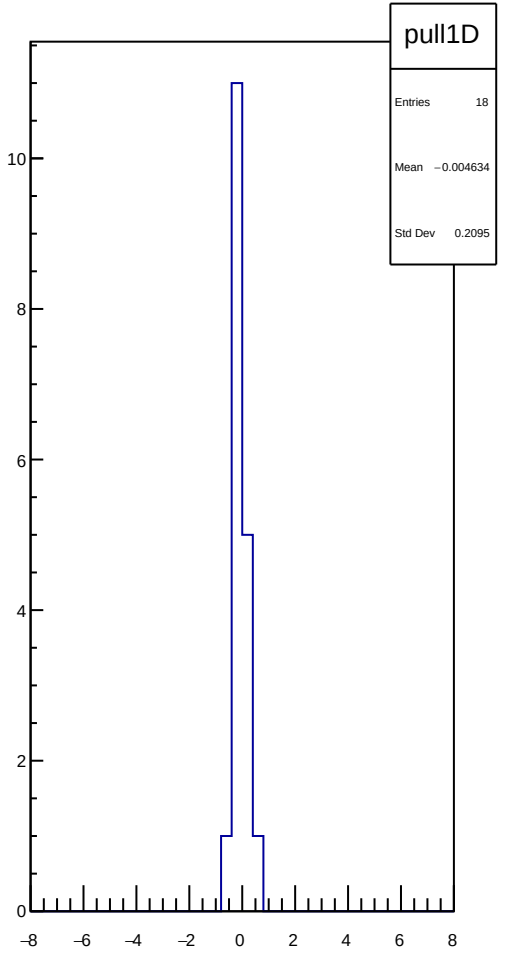

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 0.924 / 17
p0 27.21 ± 0.8272
32
30
28
26
24
22
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 100.7
Std Dev 93.8
0.2
0
−0.2
−0.4
−0.6

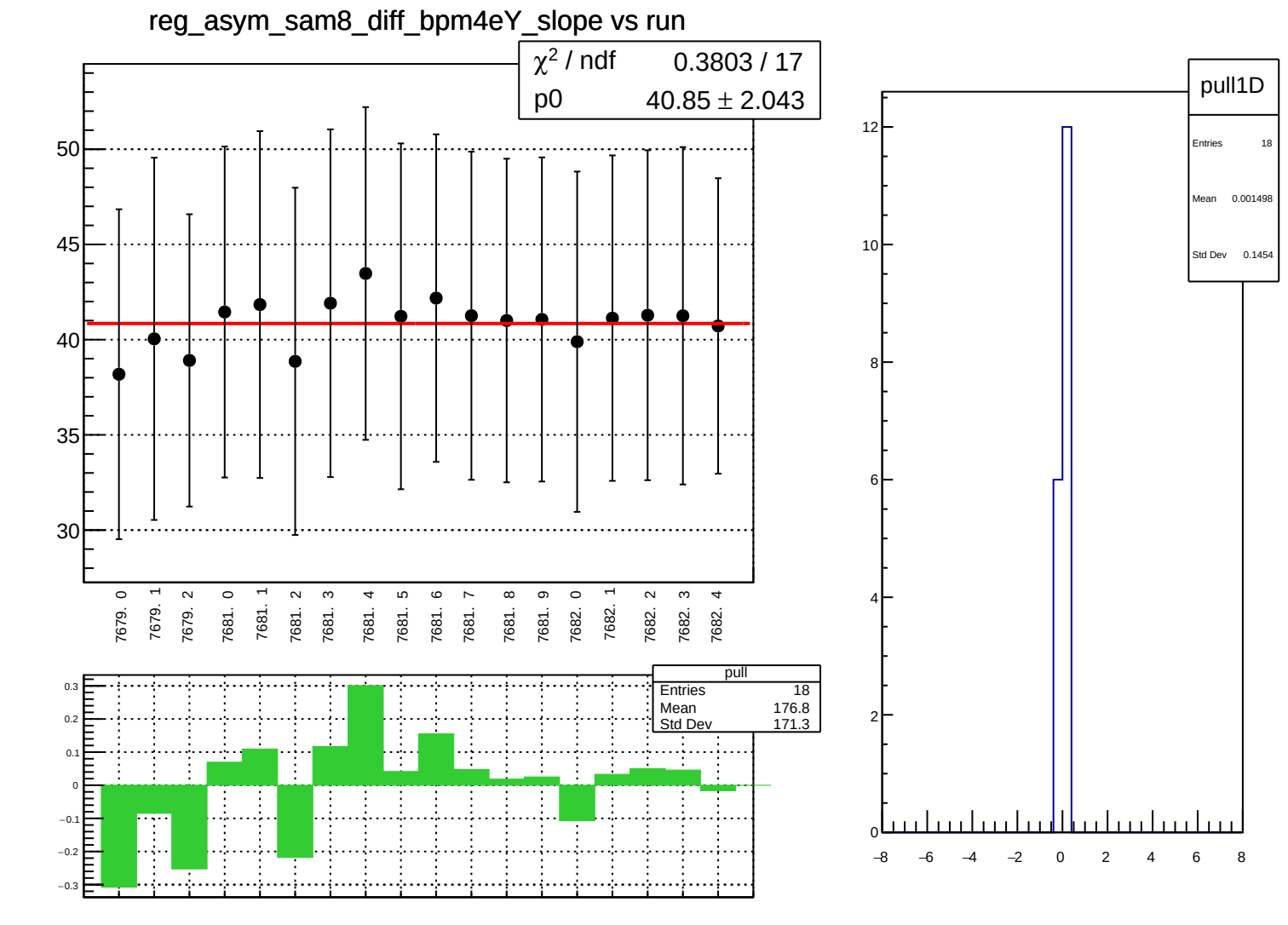

pull1D
Entries 18
Mean 0.006324
Std Dev 0.2265
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

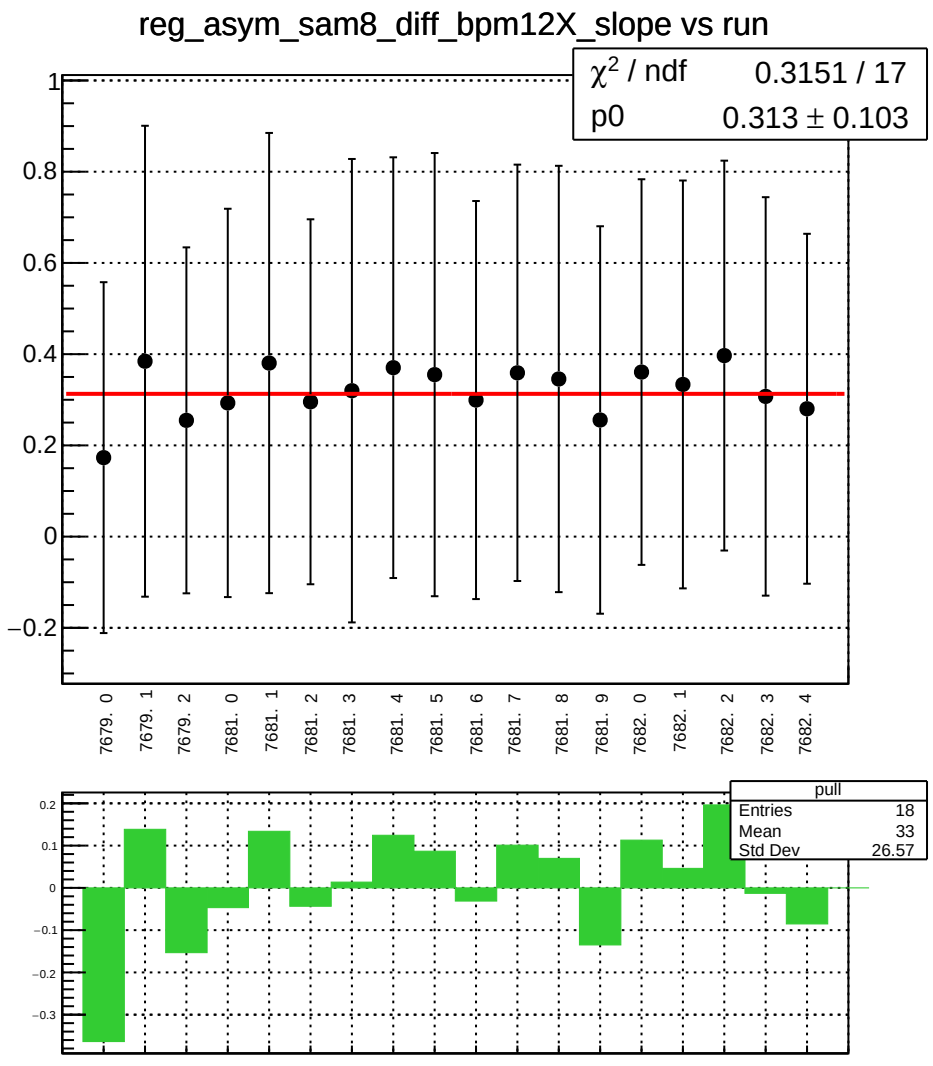

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 0.5135 / 17
p0 −43.57 ± 1.379
−34
−36
−38
−40
−42
−44
−46
−48
−50
−52
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −98.3
Std Dev 102.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

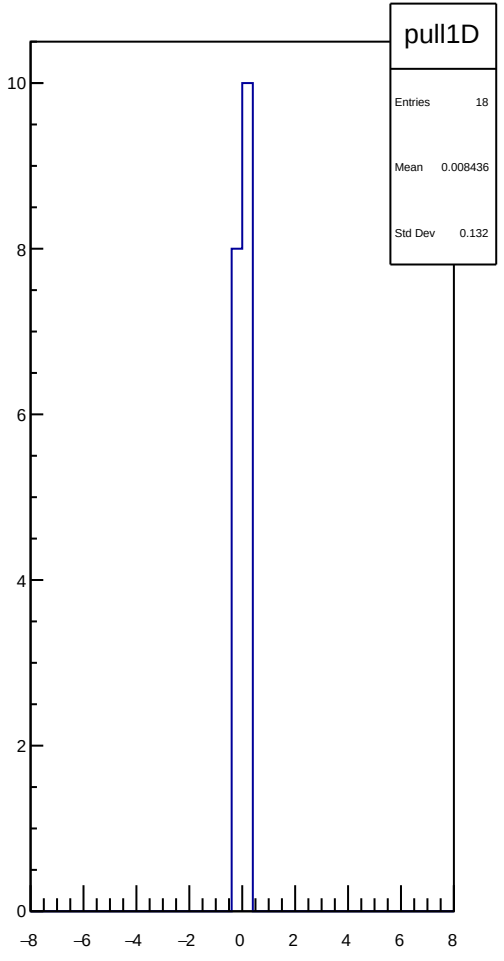

pull1D
Entries 18
Mean 0.002477
Std Dev 0.1689
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

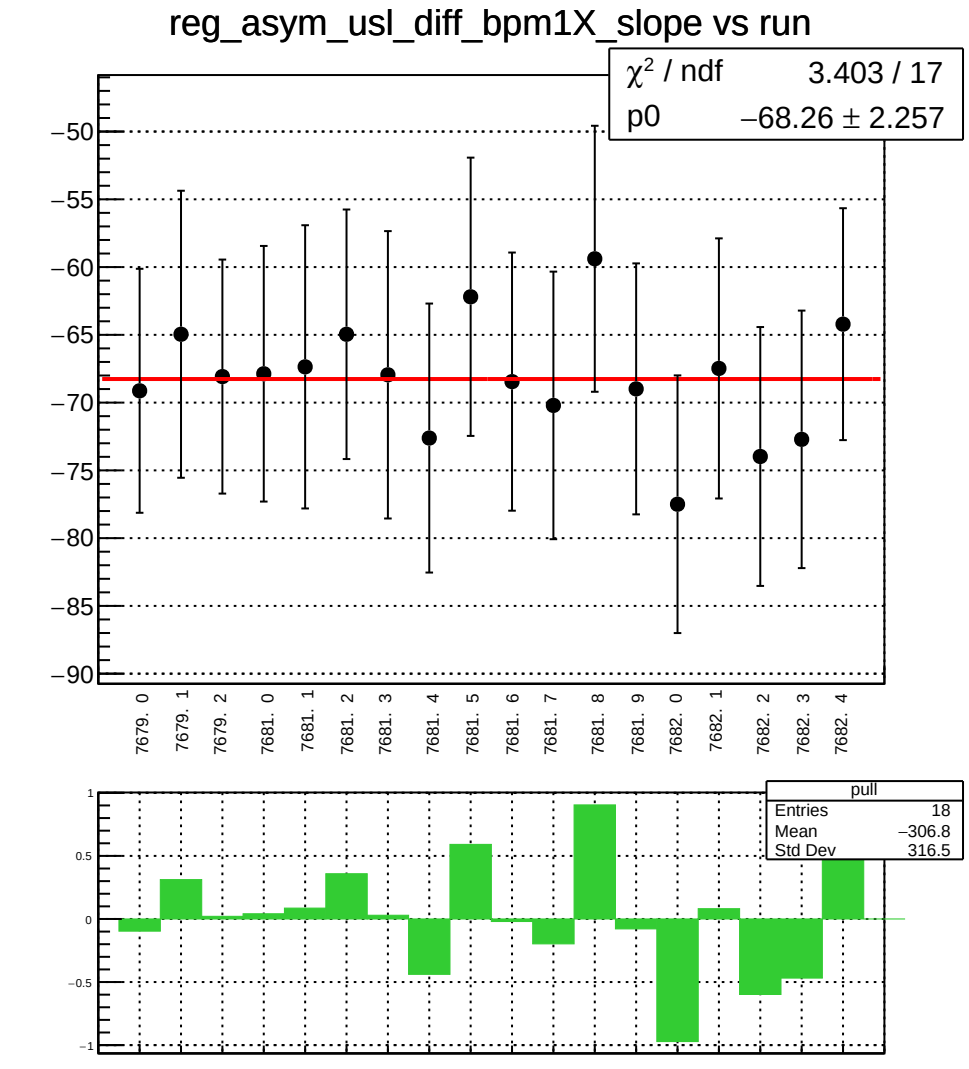

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 0.7906 / 17
p0 −50.64 ± 0.6705
−46
−47
−48
−49
−50
−51
−52
−53
−54
−55
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 123.3
Std Dev 115.9
0.4
0.2
0
−0.2
−0.4

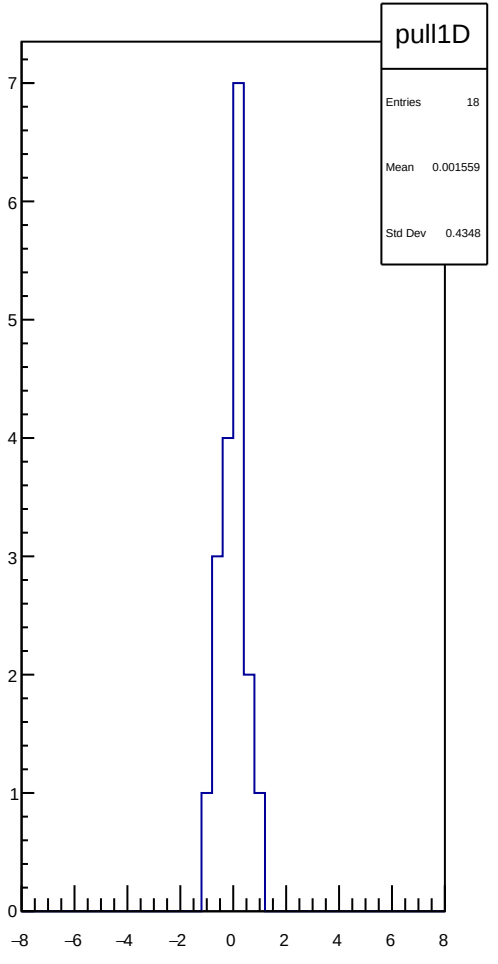

pull1D
Entries 18
Mean −0.004634
Std Dev 0.2095
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

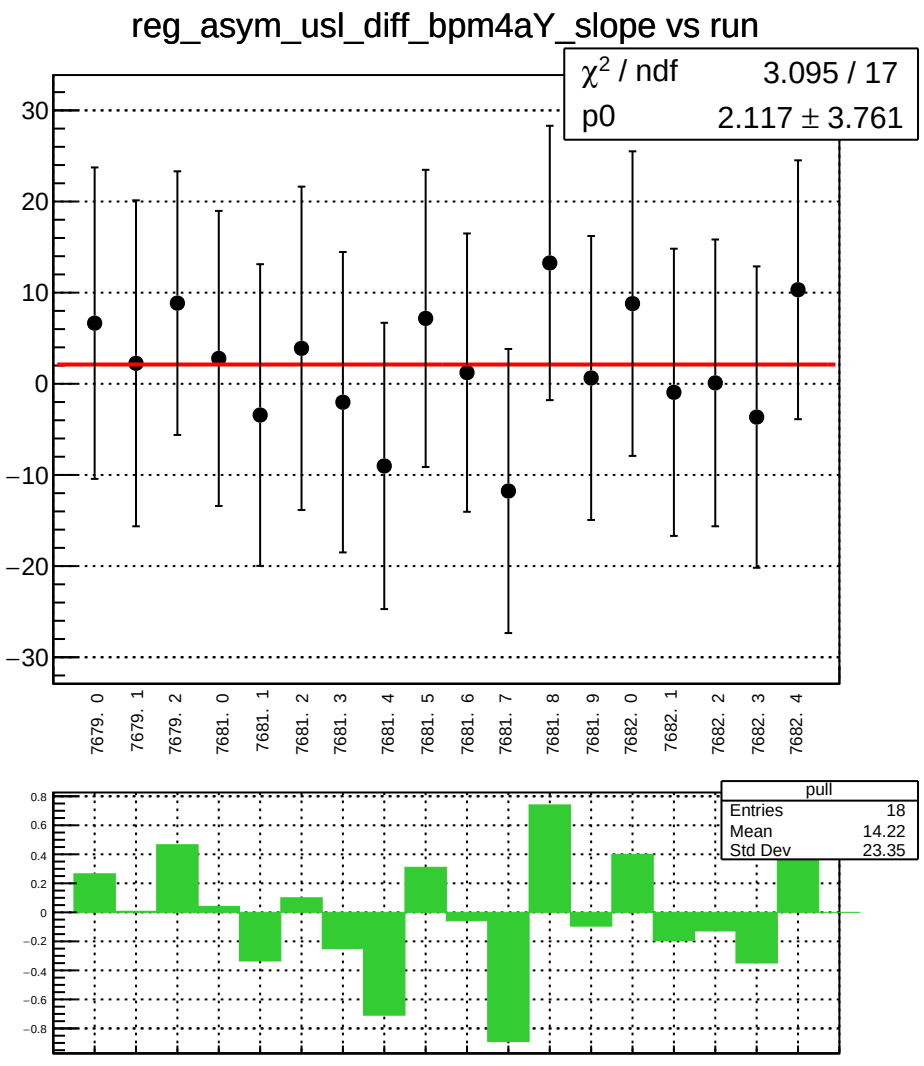

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 0.3803 / 17
p0 40.85 ± 2.043
50
45
40
35
30
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 176.8
Std Dev 171.3
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 18
Mean 0.001498
Std Dev 0.1454
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

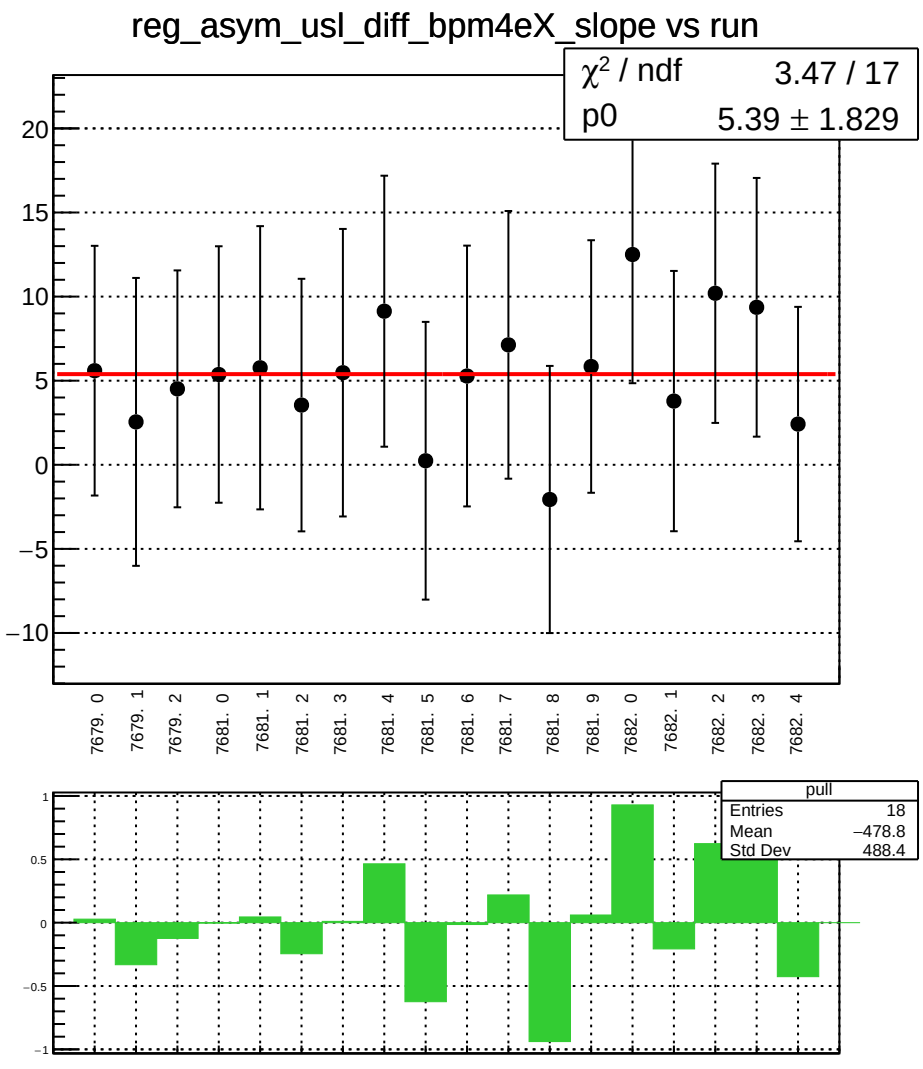

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 0.3151 / 17
p0 0.313 ± 0.103
1
0.8
0.6
0.4
0.2
0
−0.2
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 33
Std Dev 26.57
0.2
0.1
0
−0.1
−0.2
−0.3

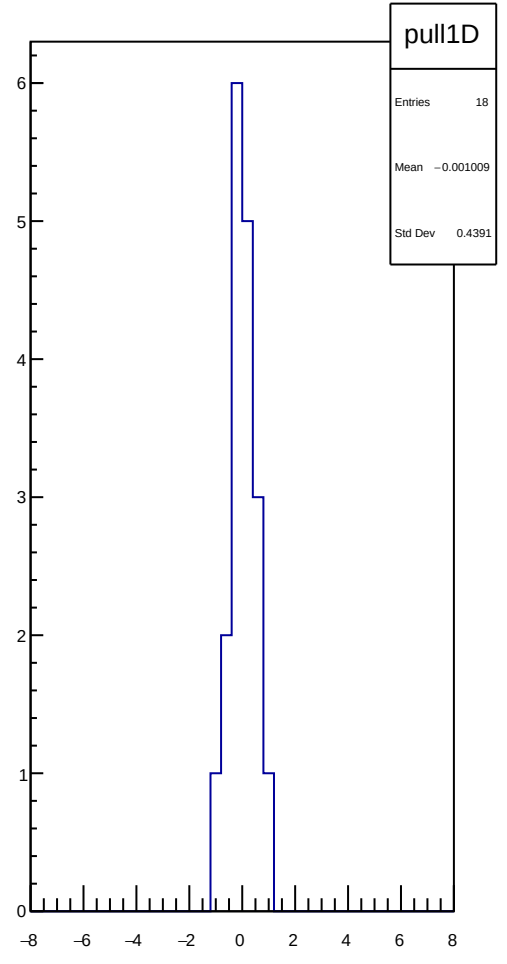

pull1D
Entries 18
Mean 0.008436
Std Dev 0.132
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

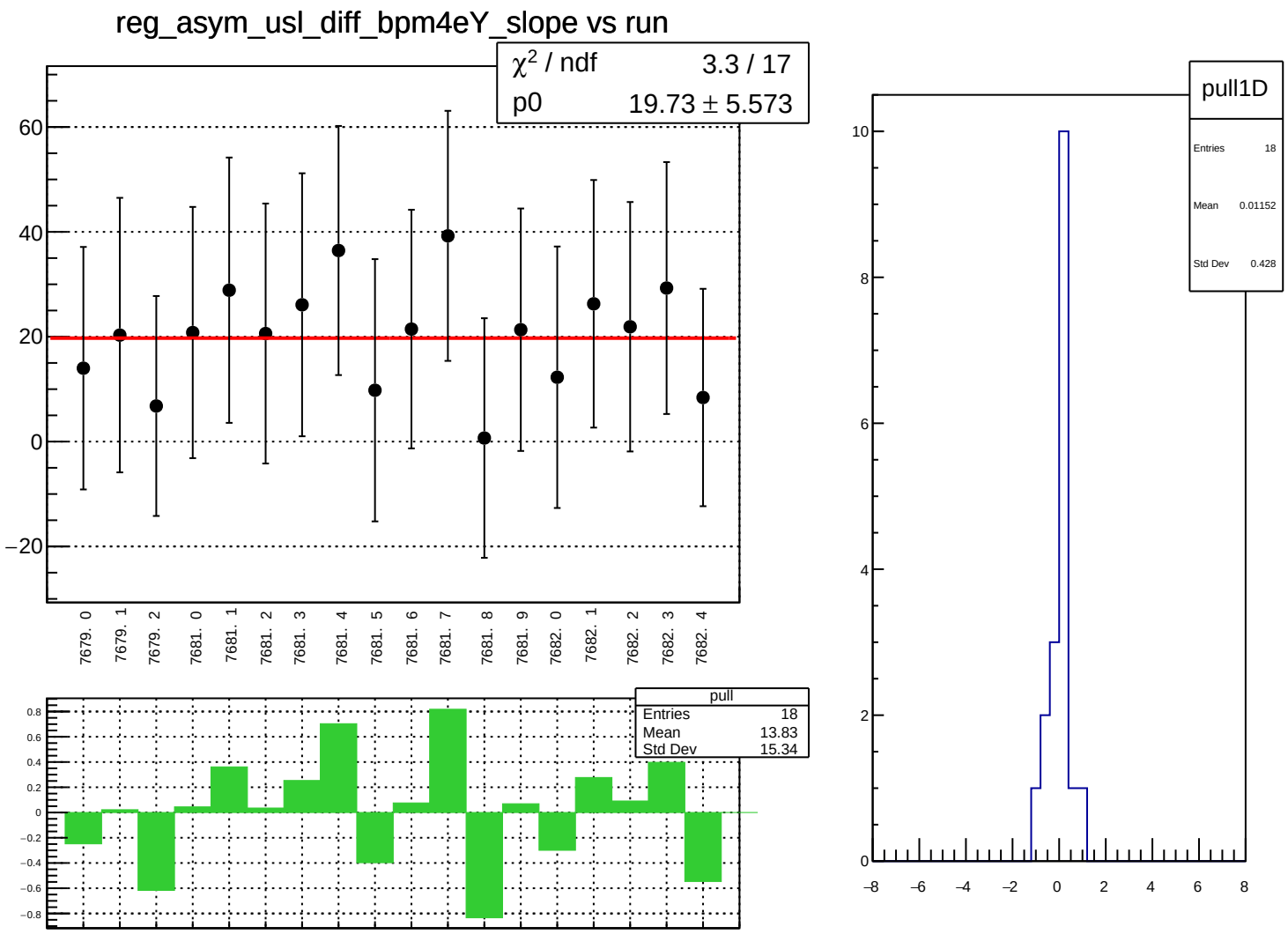

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 3.403 / 17
p0 −68.26 ± 2.257
−50
−55
−60
−65
−70
−75
−80
−85
−90
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −306.8
Std Dev 316.5
1
0.5
0
−0.5
−1

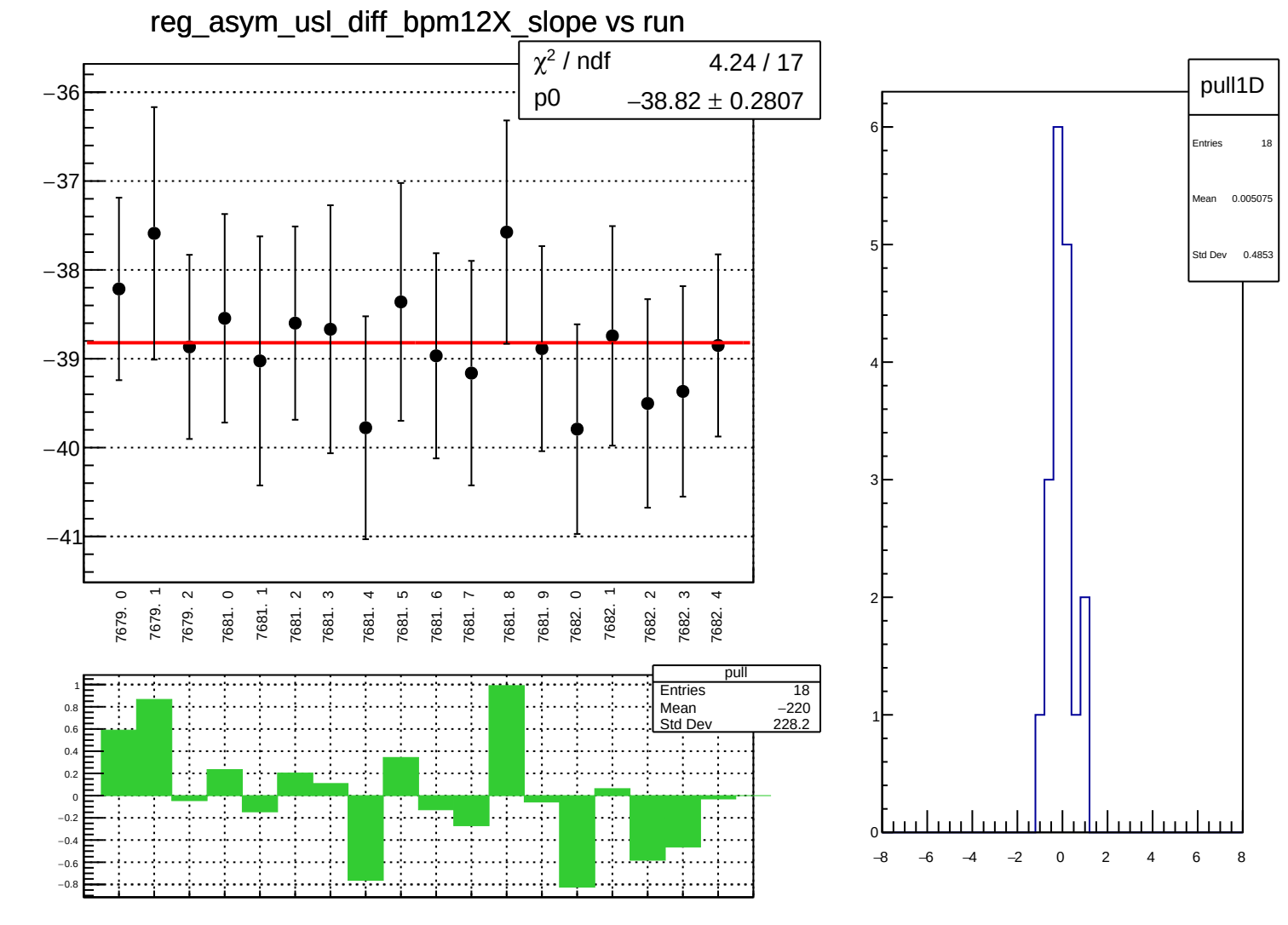

pull1D
Entries 18
Mean 0.001559
Std Dev 0.4348
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

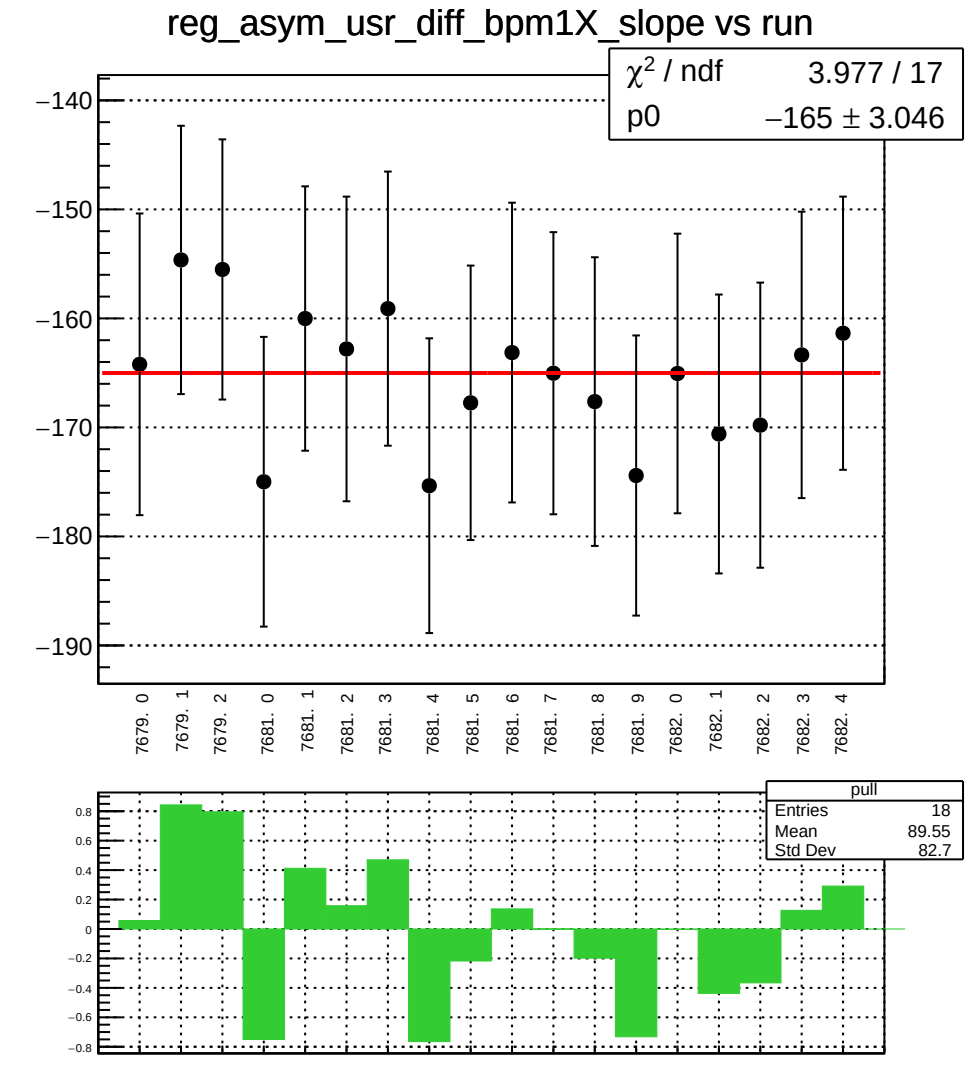

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 3.095 / 17
p0 2.117 ± 3.761
30
20
10
0
−10
−20
−30
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 14.22
Std Dev 23.35
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 18
Mean −0.005606
Std Dev 0.4146
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

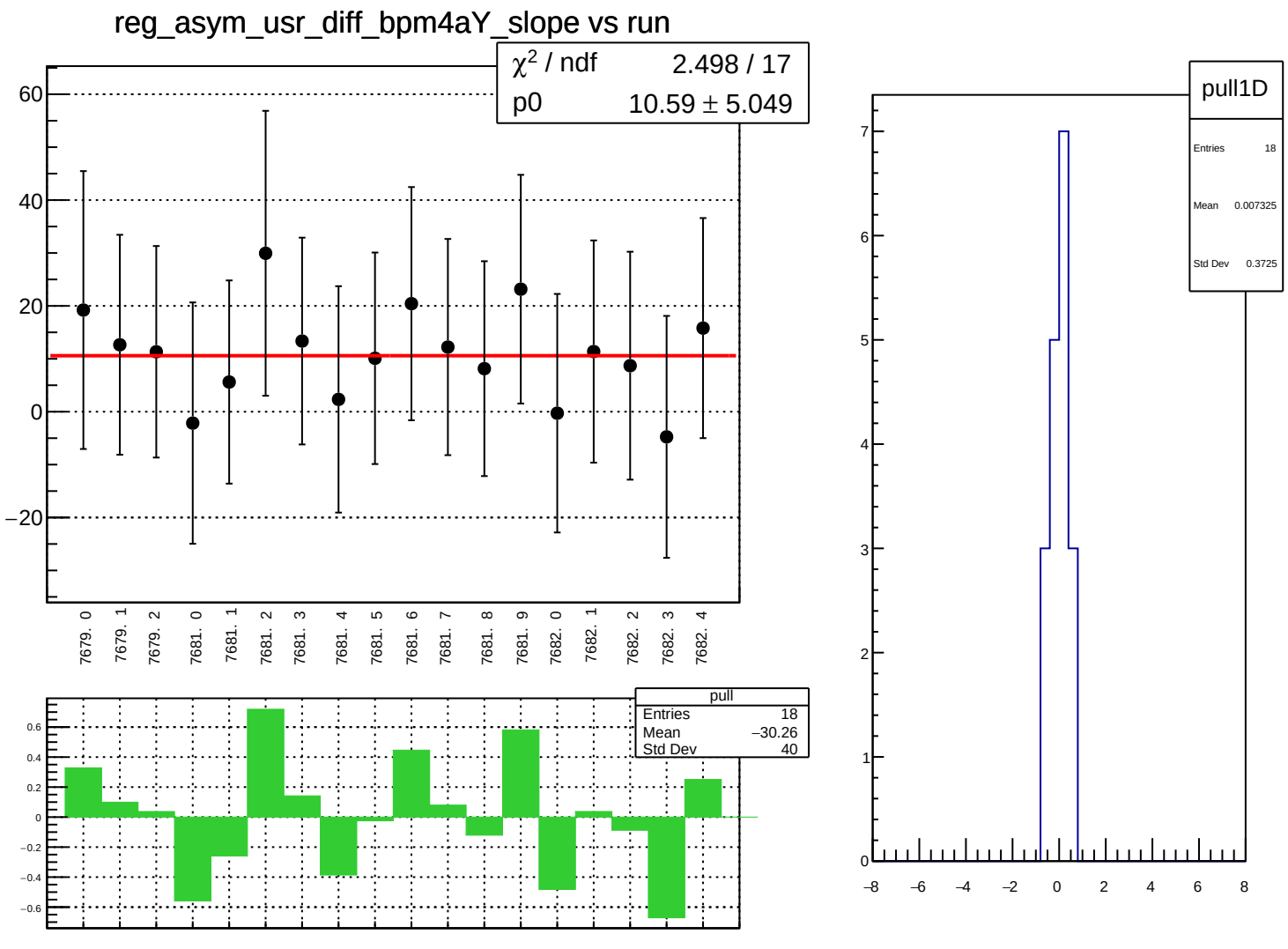

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 3.47 / 17
p0 5.39 ± 1.829
20
15
10
5
0
−5
−10
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −478.8
Std Dev 488.4
1
0.5
0
−0.5
−1

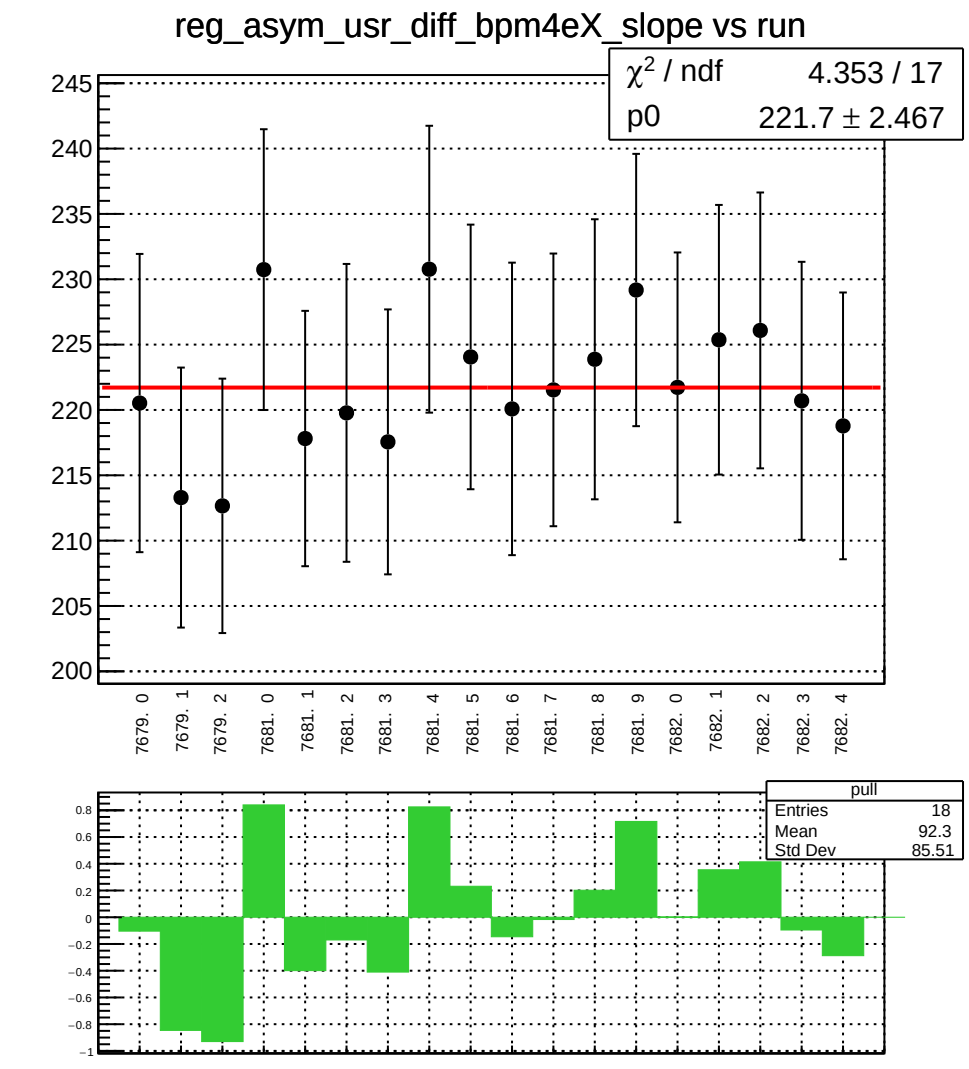

pull1D
Entries 18
Mean −0.001009
Std Dev 0.4391
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

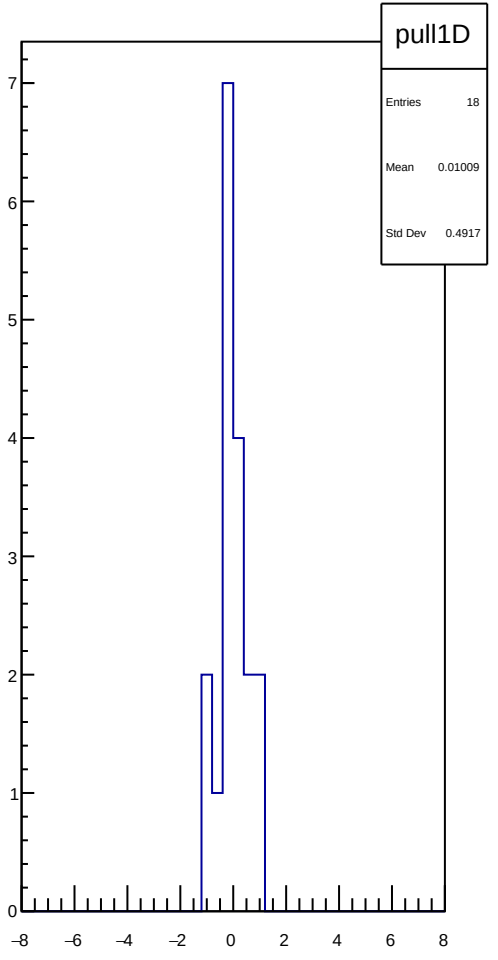

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 3.3 / 17
p0 19.73 ± 5.573
60
40
20
0
−20
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 13.83
Std Dev 15.34
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 18
Mean 0.01152
Std Dev 0.428
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

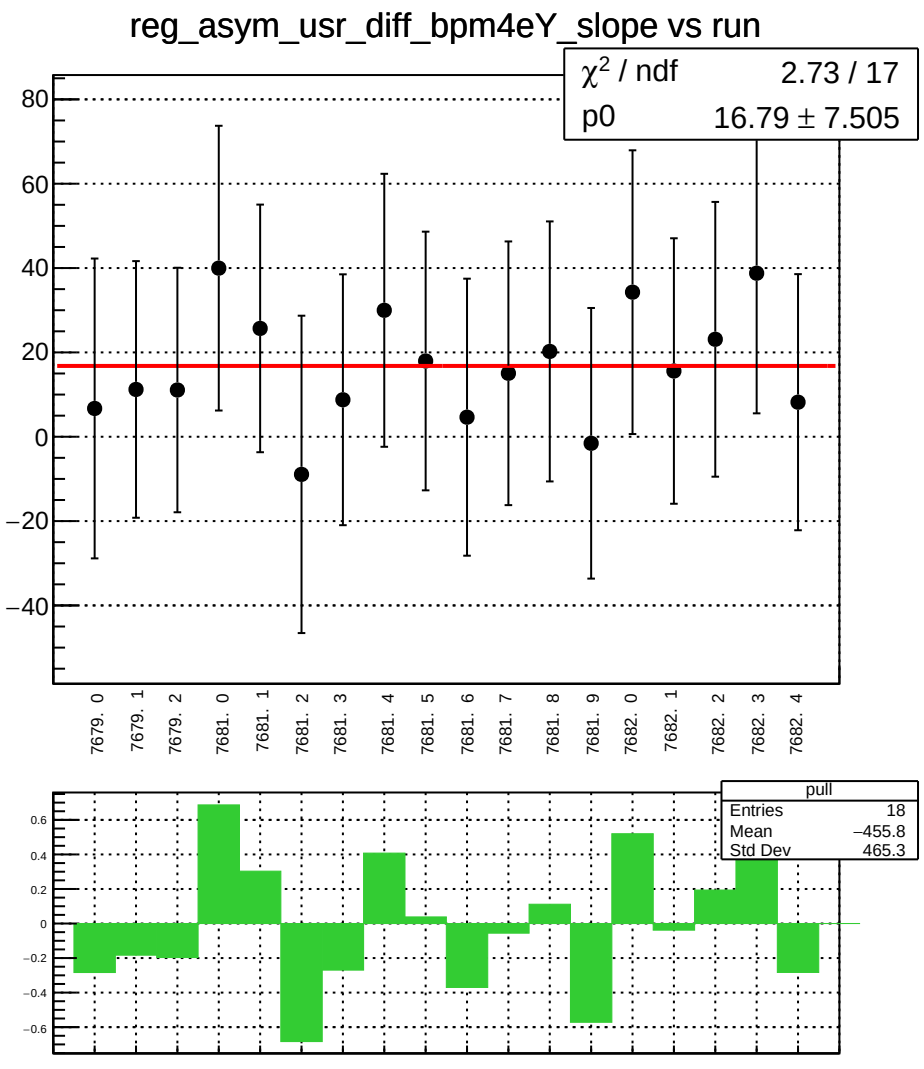

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 4.24 / 17
p0 −38.82 ± 0.2807
−36
−37
−38
−39
−40
−41
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −220
Std Dev 228.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 18
Mean 0.005075
Std Dev 0.4853
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

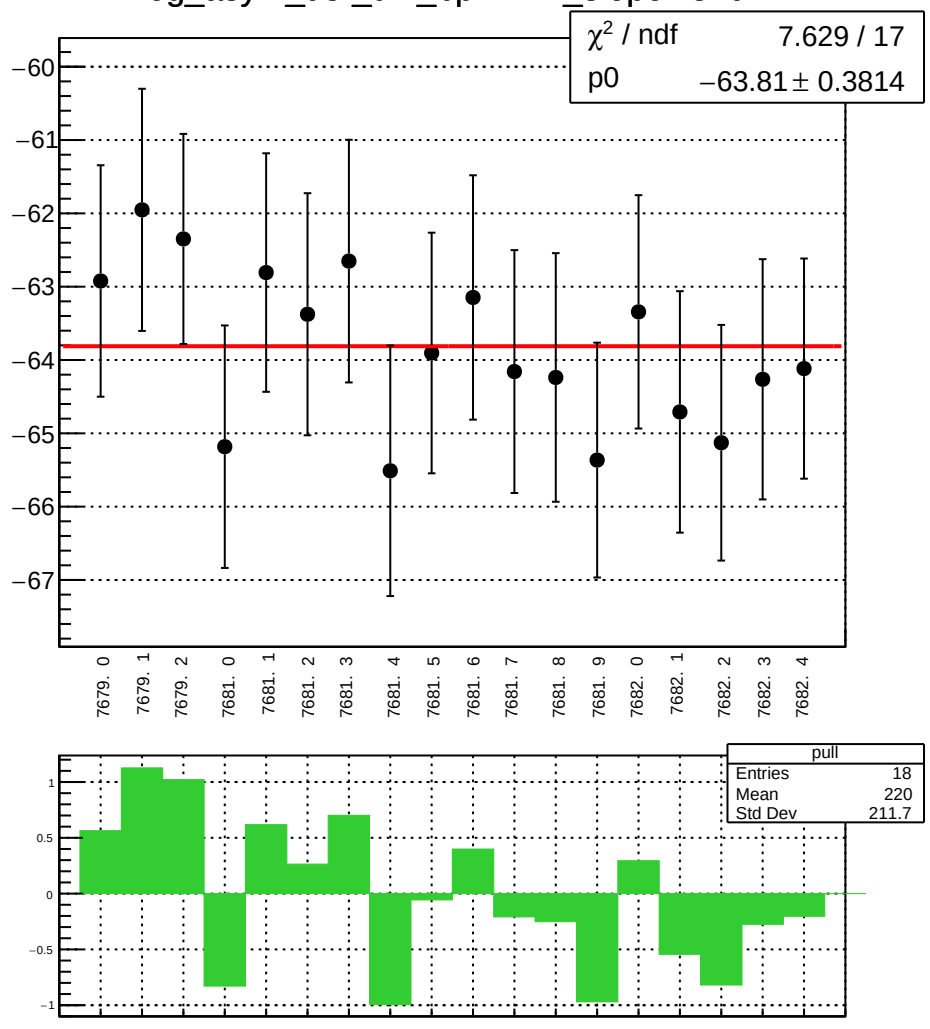

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 3.977 / 17
p0 −165 ± 3.046
−140
−150
−160
−170
−180
−190
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 89.55
Std Dev 82.7
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 18
Mean −0.01003
Std Dev 0.47
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

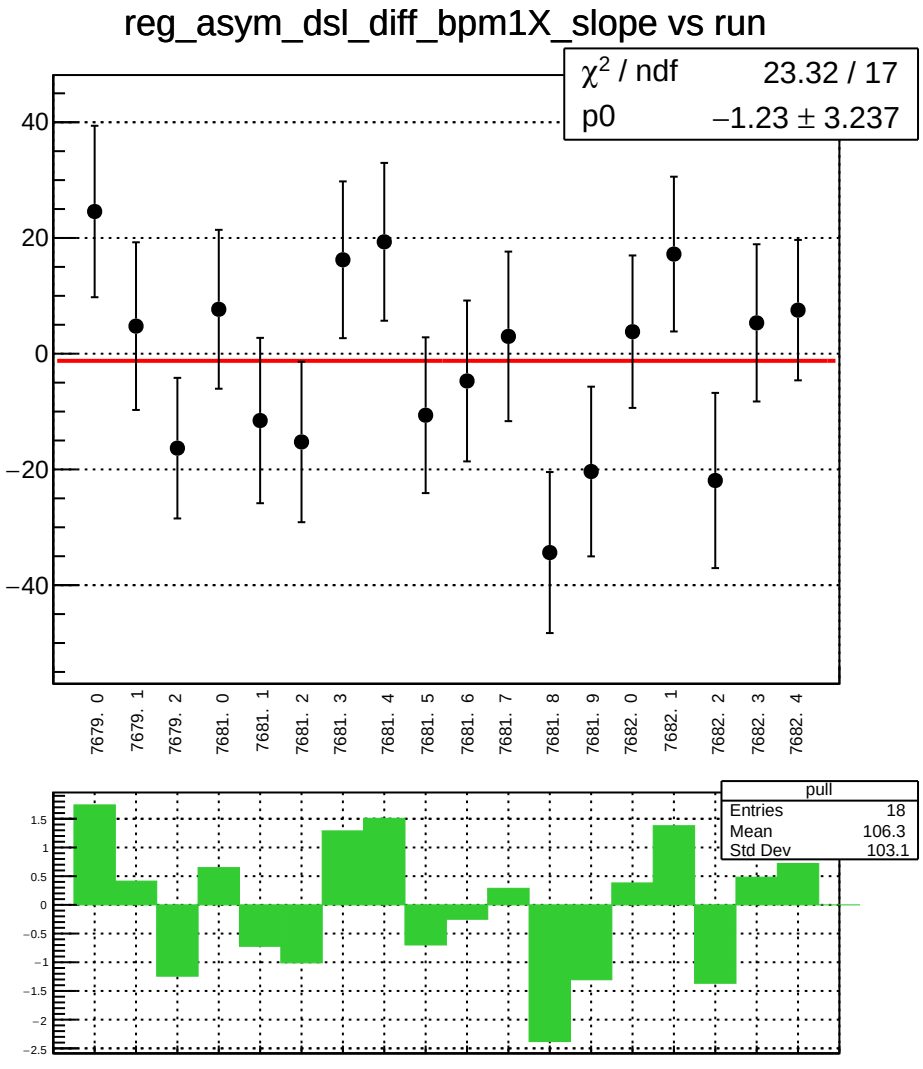

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 2.498 / 17
p0 10.59 ± 5.049
60
40
20
0
−20
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −30.26
Std Dev 40
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 18
Mean 0.007325
Std Dev 0.3725
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

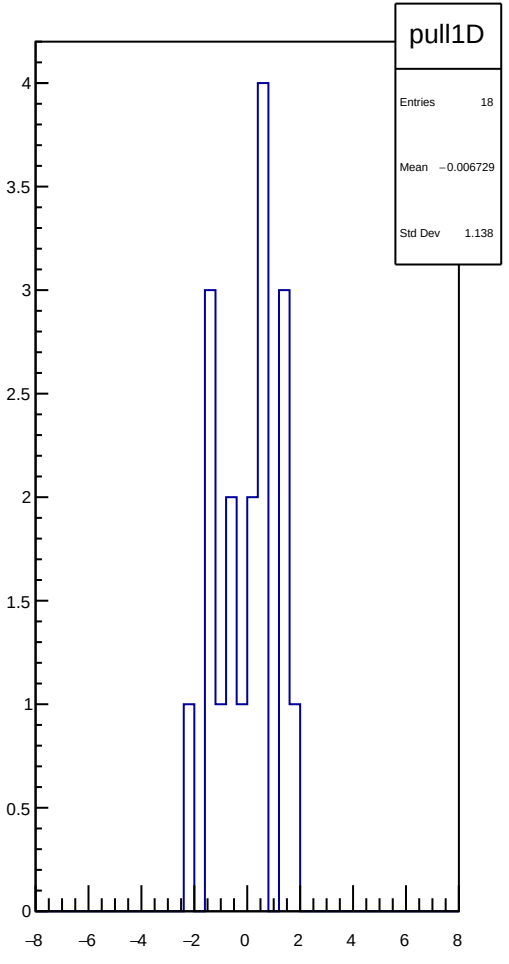

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 4.353 / 17
p0 221.7 ± 2.467
245
240
235
230
225
220
215
210
205
200
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 92.3
Std Dev 85.51
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

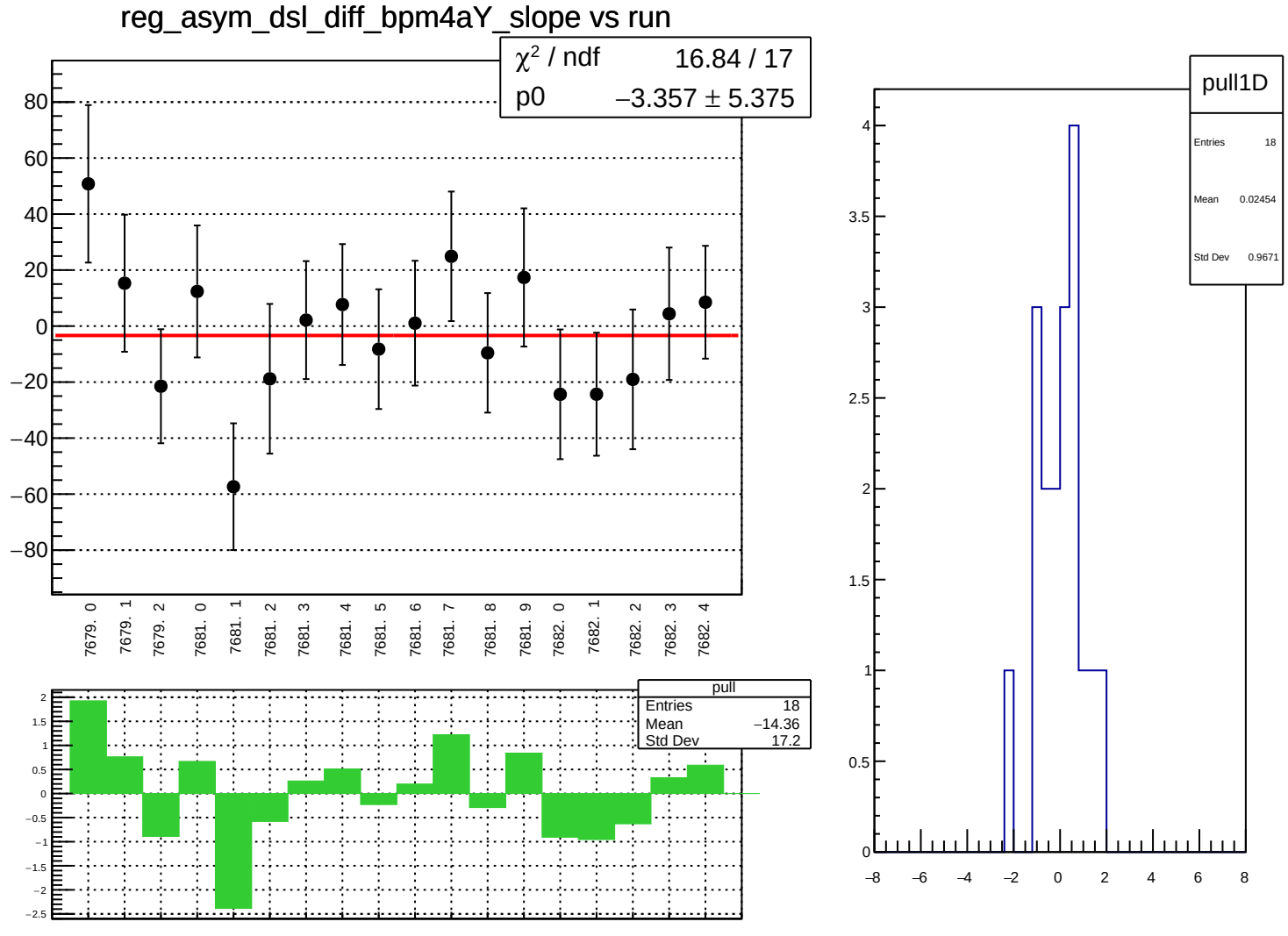

pull1D
Entries 18
Mean 0.01009
Std Dev 0.4917
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

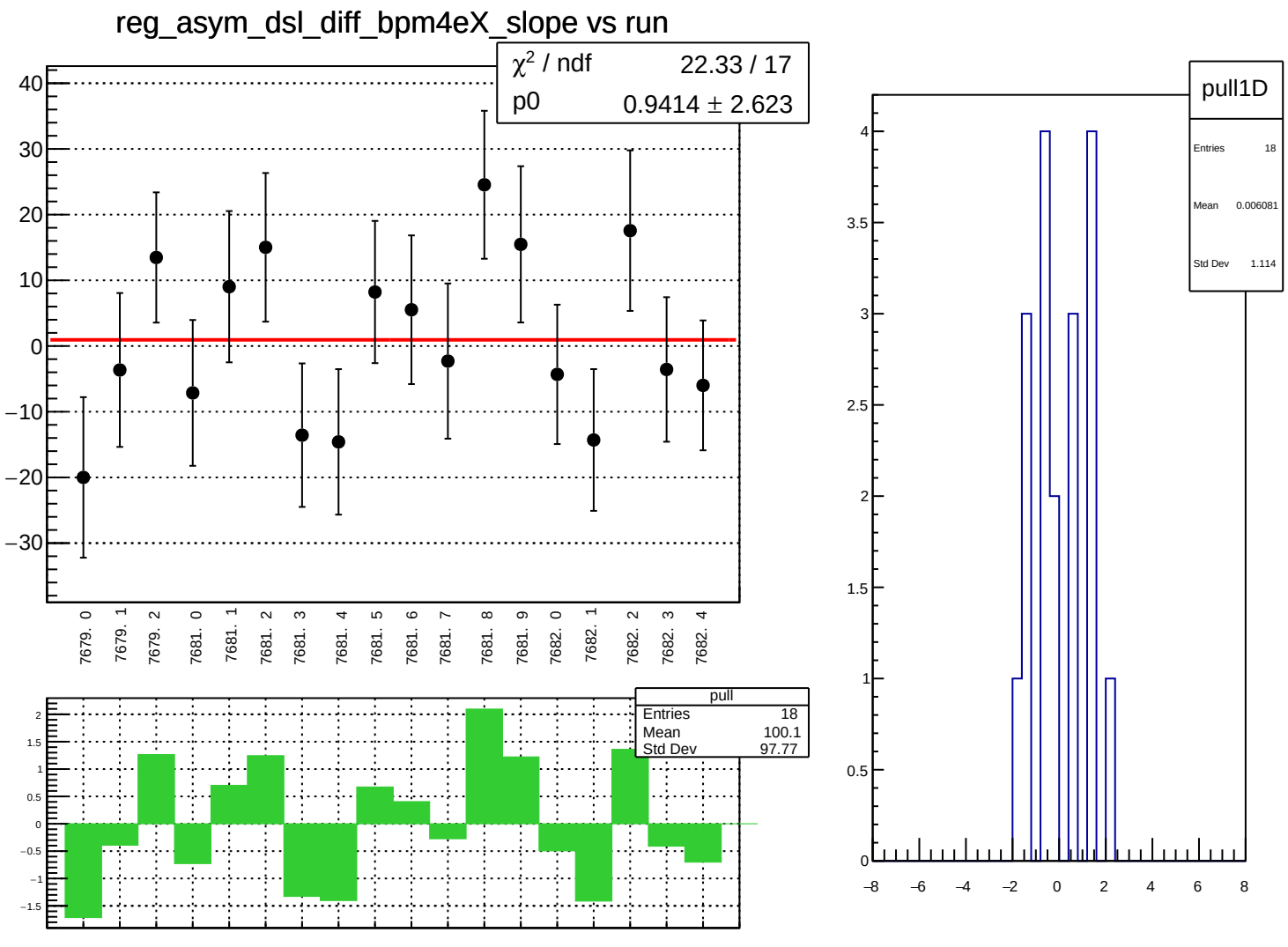

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 2.73 / 17
p0 16.79 ± 7.505
80
60
40
20
0
−20
−40
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −455.8
Std Dev 465.3
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 18
Mean −0.0007547
Std Dev 0.3895
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

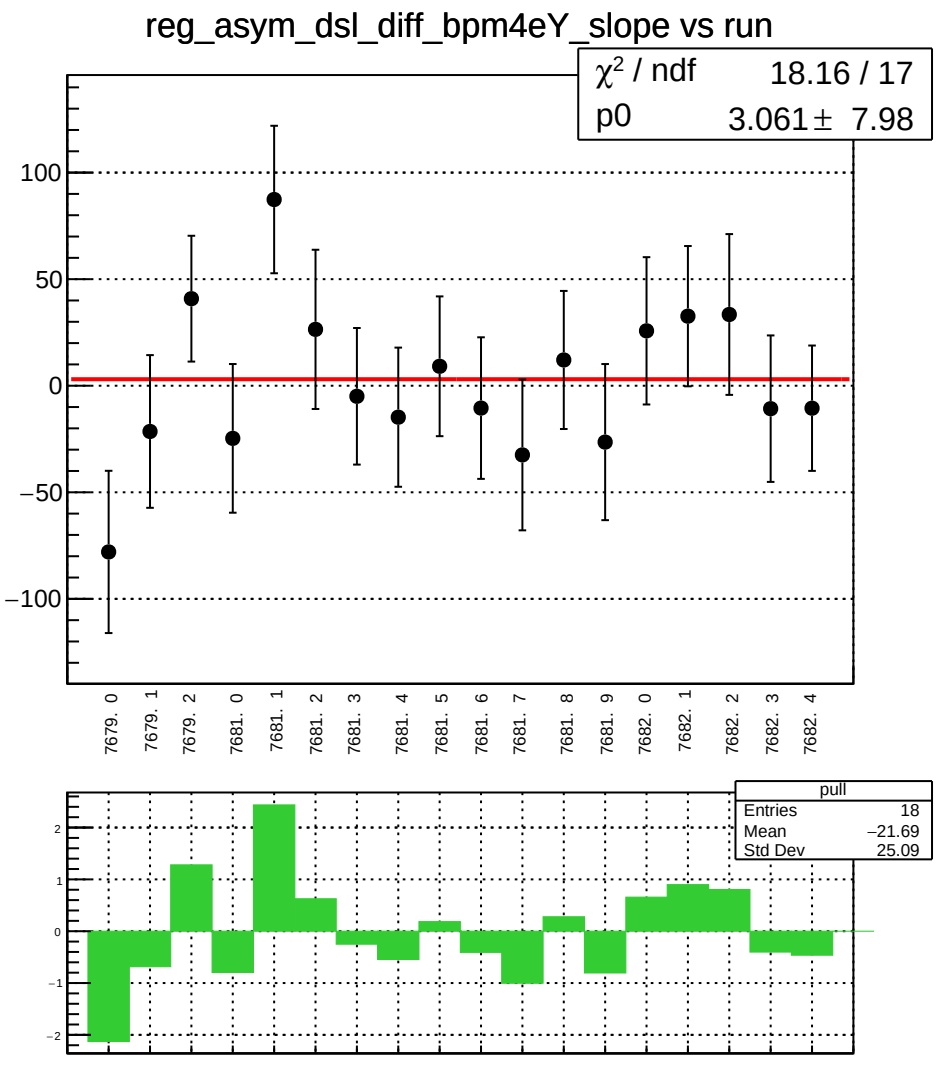

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 7.629 / 17
p0 −63.81 ± 0.3814
−60
−61
−62
−63
−64
−65
−66
−67
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 220
Std Dev 211.7
1
0.5
0
−0.5
−1
pull1D
Entries 18
Mean −0.009001
Std Dev 0.651
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

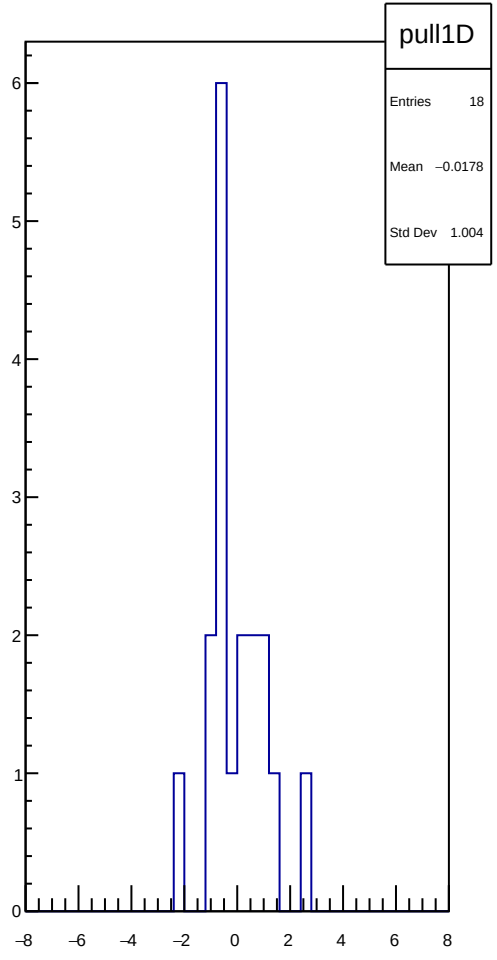

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 23.32 / 17
p0 −1.23 ± 3.237
40
20
0
−20
−40
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 106.3
Std Dev 103.1
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

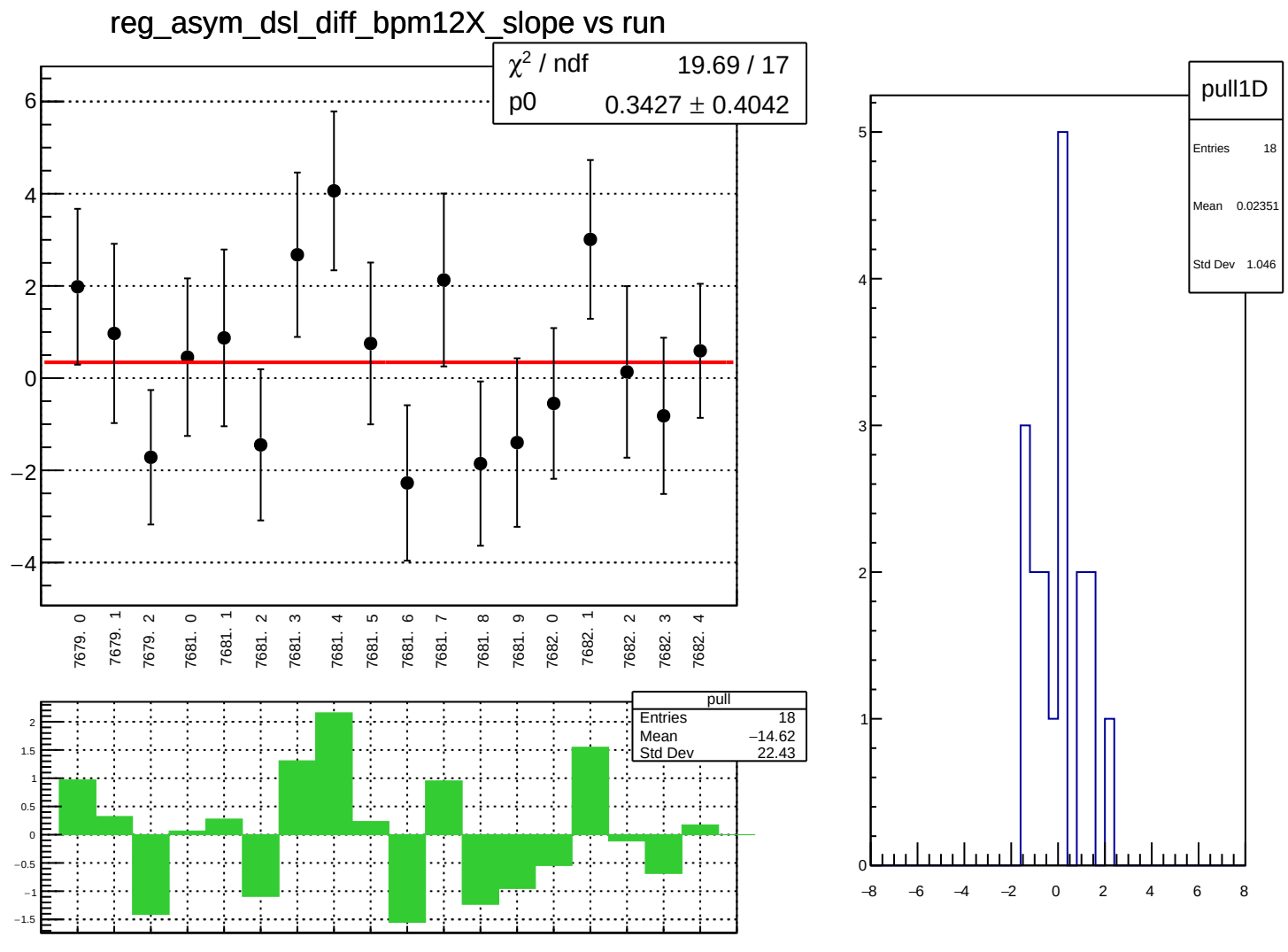

pull1D
Entries 18
Mean −0.006729
Std Dev 1.138
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

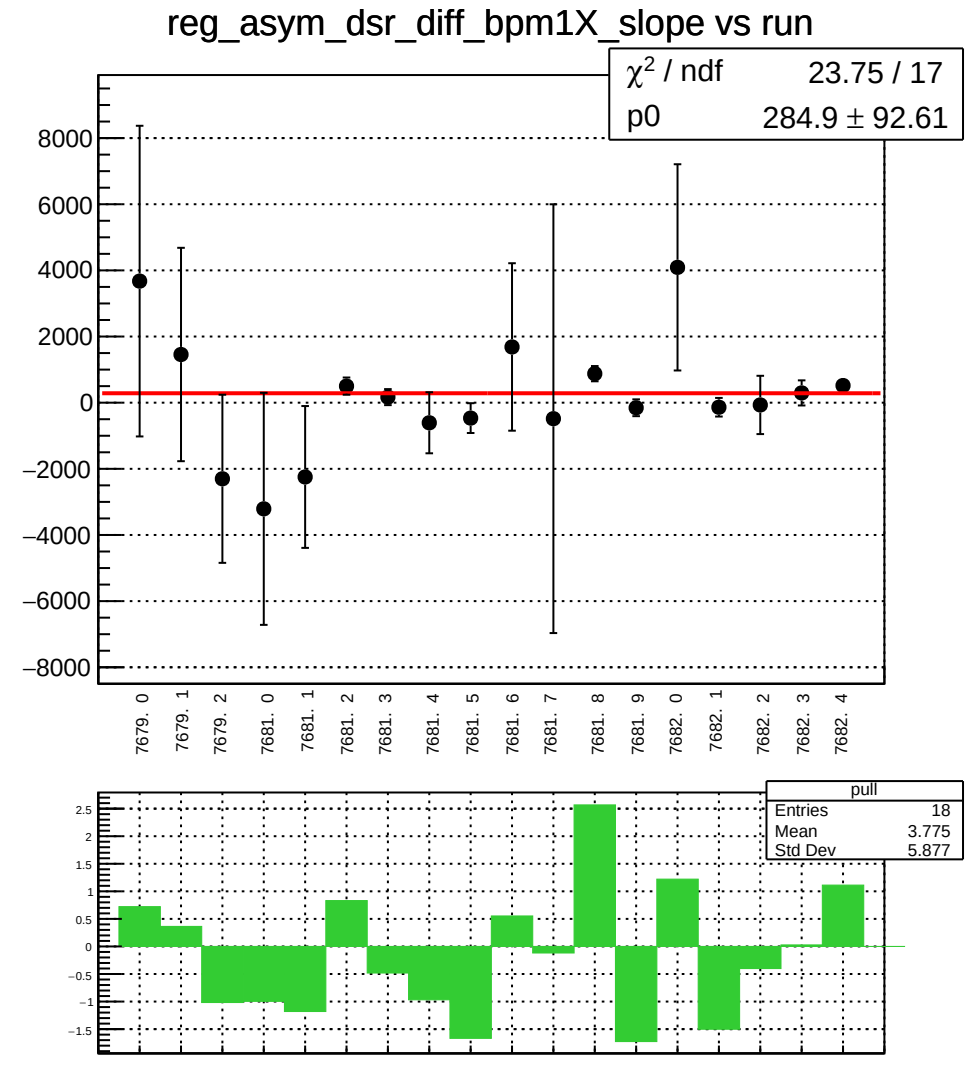

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 16.84 / 17
p0 −3.357 ± 5.375
80
60
40
20
0
−20
−40
−60
−80
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −14.36
Std Dev 17.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 18
Mean 0.02454
Std Dev 0.9671
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

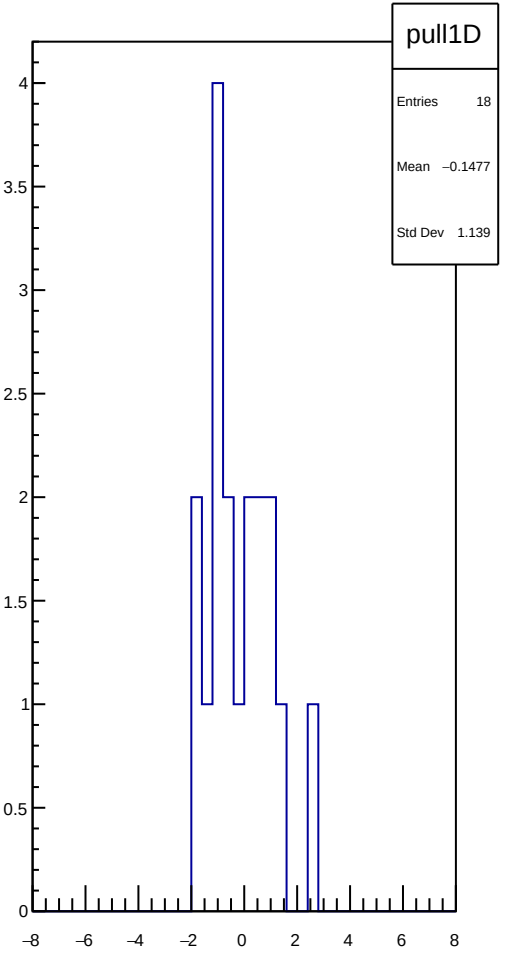

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 22.33 / 17
p0 0.9414 ± 2.623
40
30
20
10
0
−10
−20
−30
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 100.1
Std Dev 97.77
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 18
Mean 0.006081
Std Dev 1.114
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

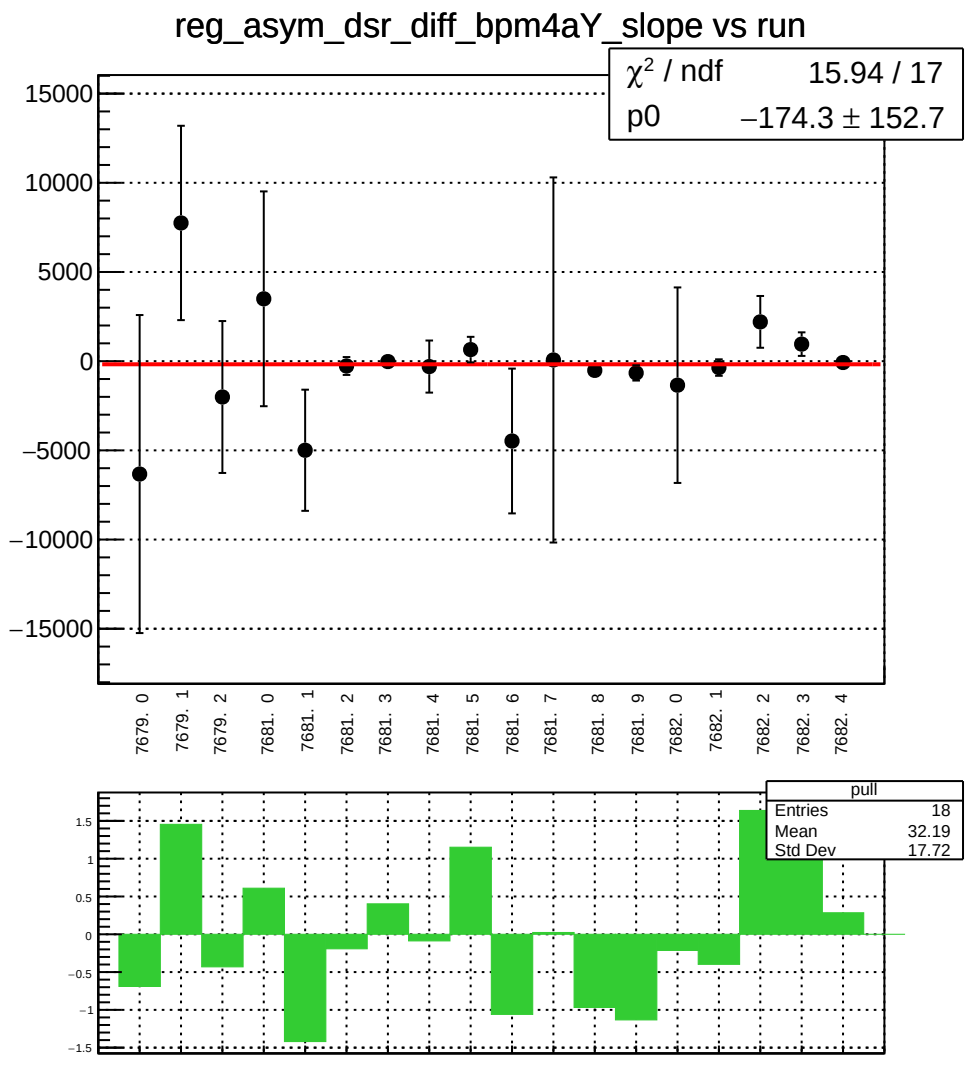

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 18.16 / 17
p0 3.061 ± 7.98
100
50
0
−50
−100
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −21.69
Std Dev 25.09
2
1
0
−1
−2

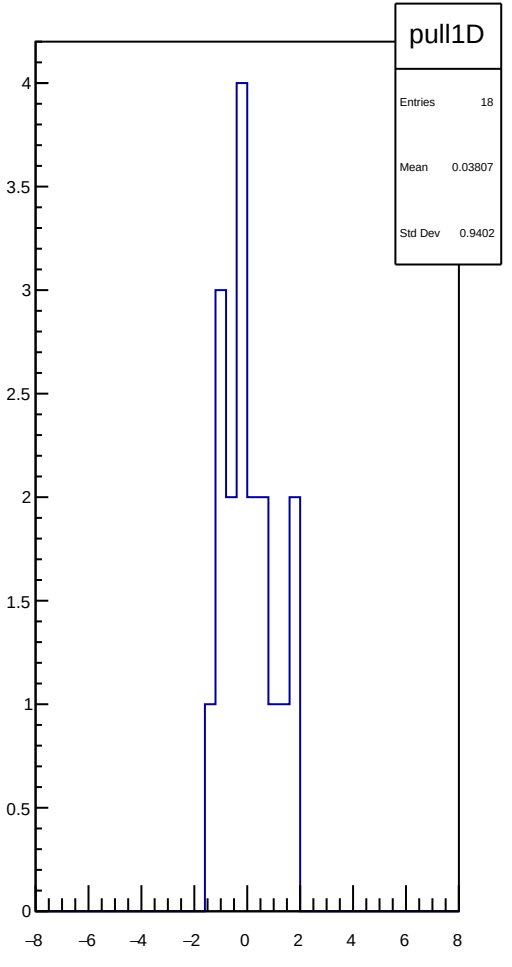

pull1D
Entries 18
Mean −0.0178
Std Dev 1.004
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

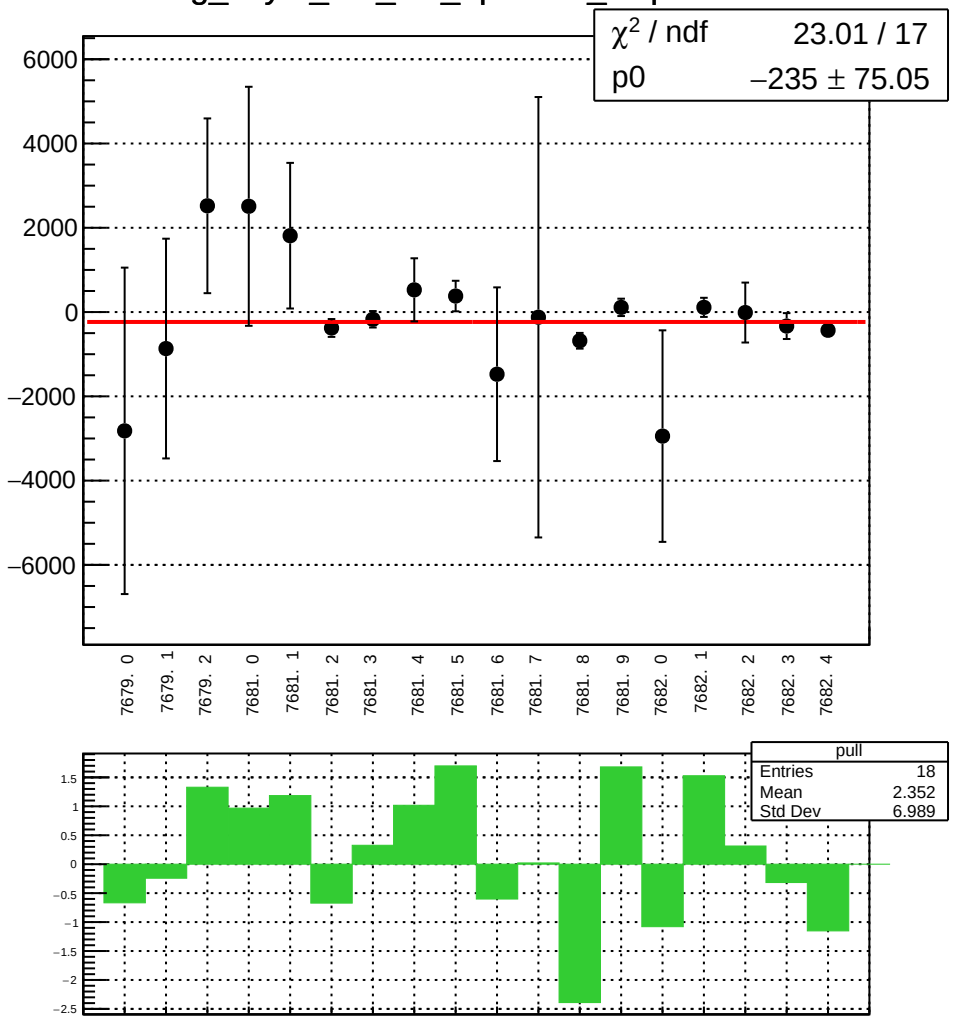

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 19.69 / 17
p0 0.3427 ± 0.4042
6
4
2
0
−2
−4
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −14.62
Std Dev 22.43
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 18
Mean 0.02351
Std Dev 1.046
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

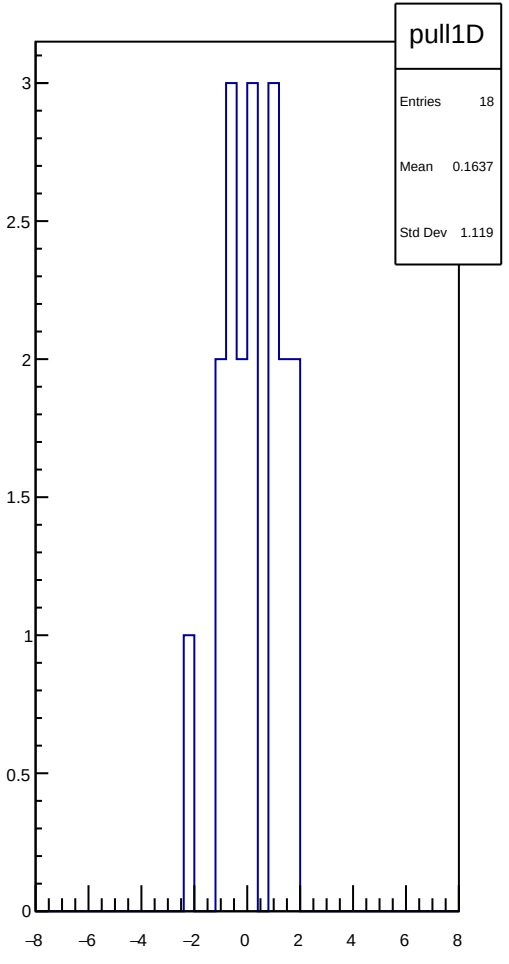

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 23.75 / 17
p0 284.9 ± 92.61
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 3.775
Std Dev 5.877
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

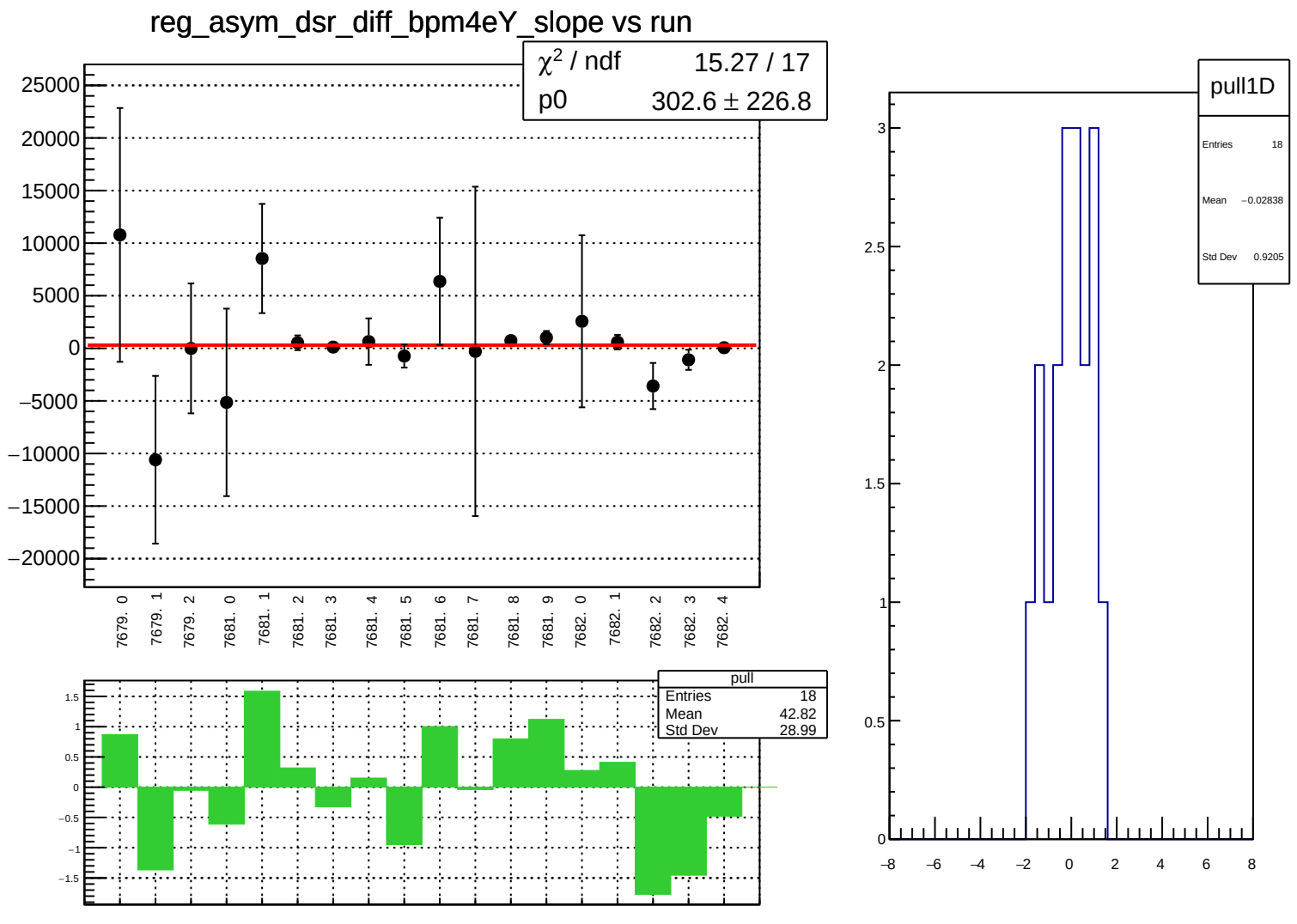

pull1D
Entries 18
Mean −0.1477
Std Dev 1.139
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

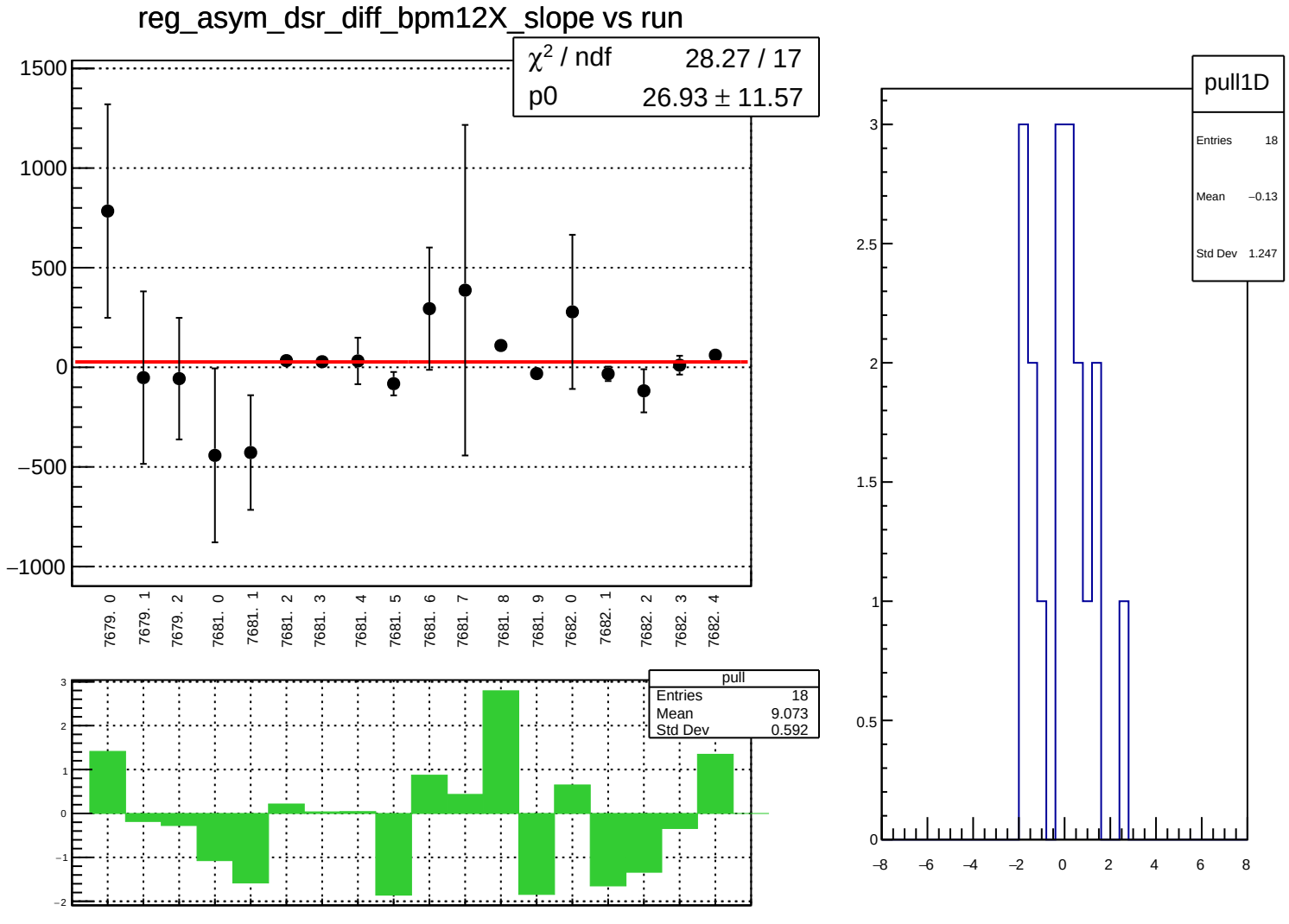

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 15.94 / 17
p0 −174.3 ± 152.7
15000
10000
5000
0
−5000
−10000
−15000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 32.19
Std Dev 17.72
1.5
1
0.5
0
−0.5
−1
−1.5

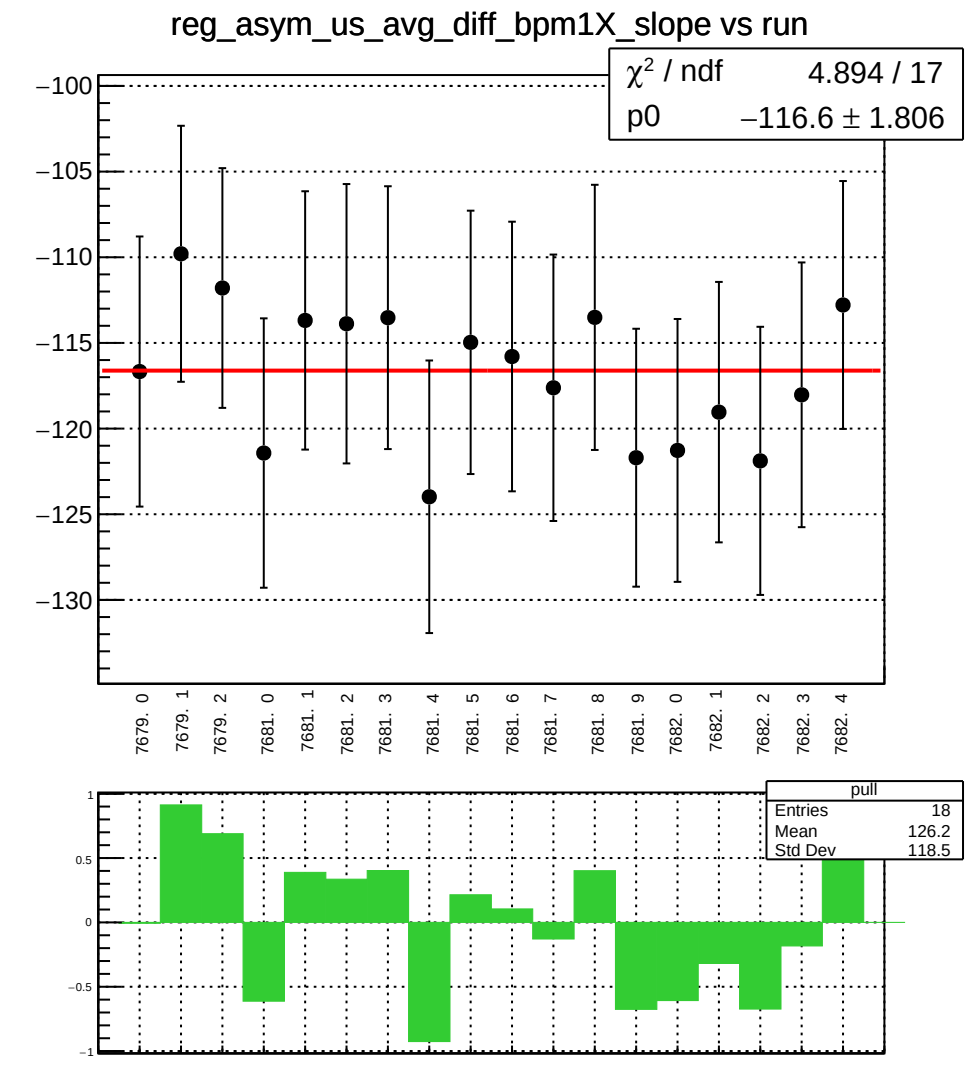

pull1D
Entries 18
Mean 0.03807
Std Dev 0.9402
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

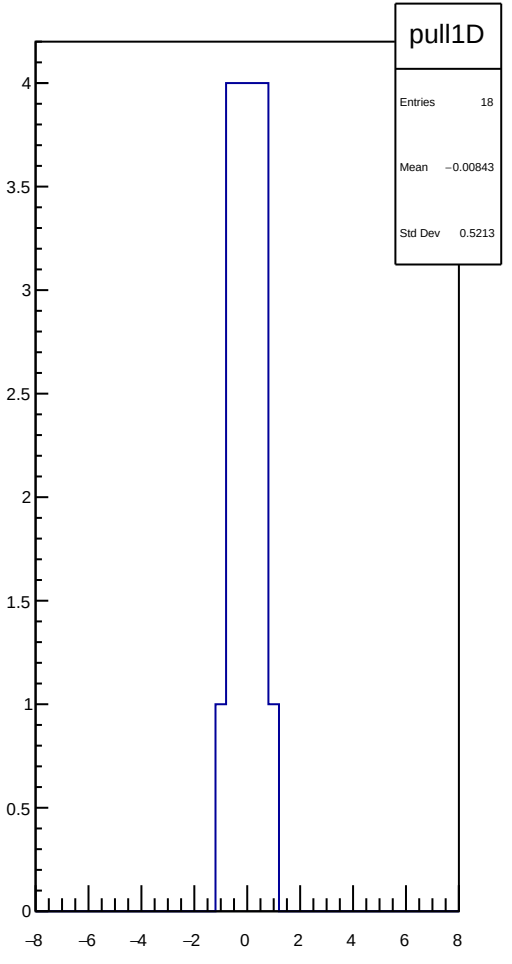

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 23.01 / 17
p0 −235 ± 75.05
6000
4000
2000
0
−2000
−4000
−6000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 2.352
Std Dev 6.989
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

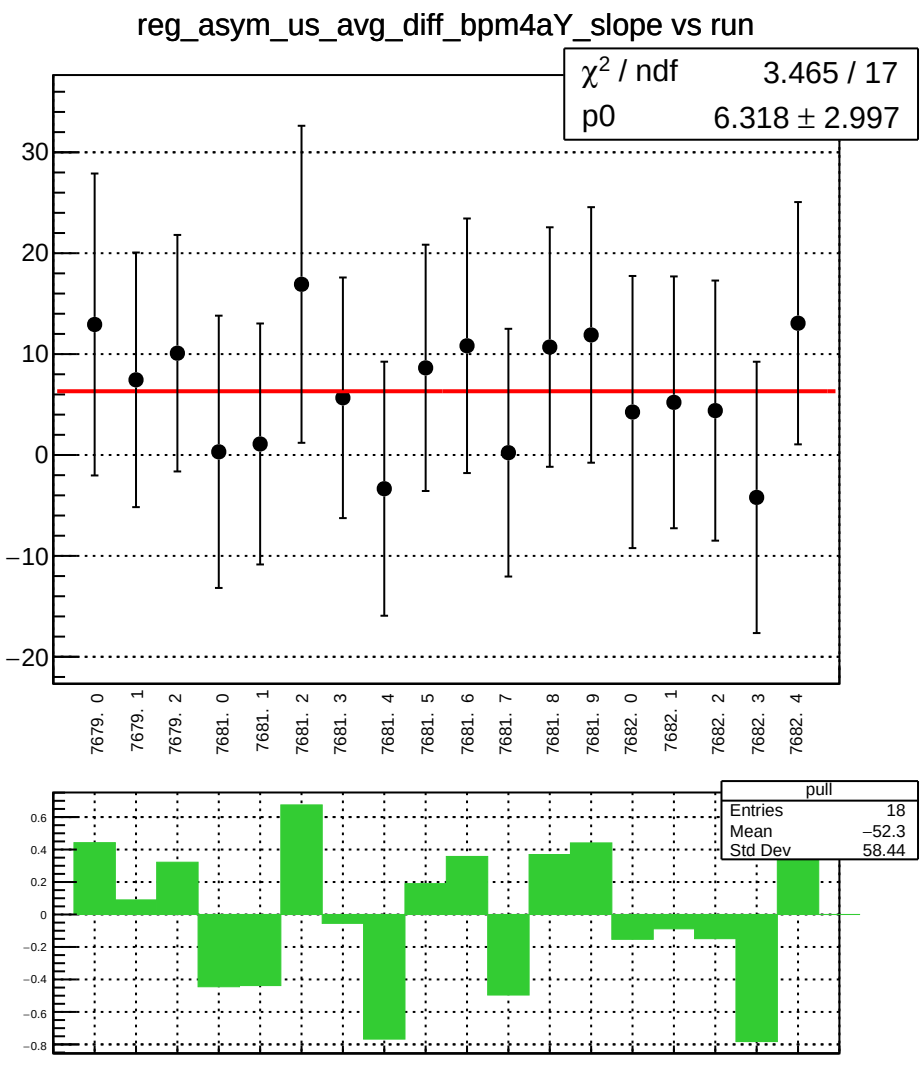

pull1D
Entries 18
Mean 0.1637
Std Dev 1.119
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

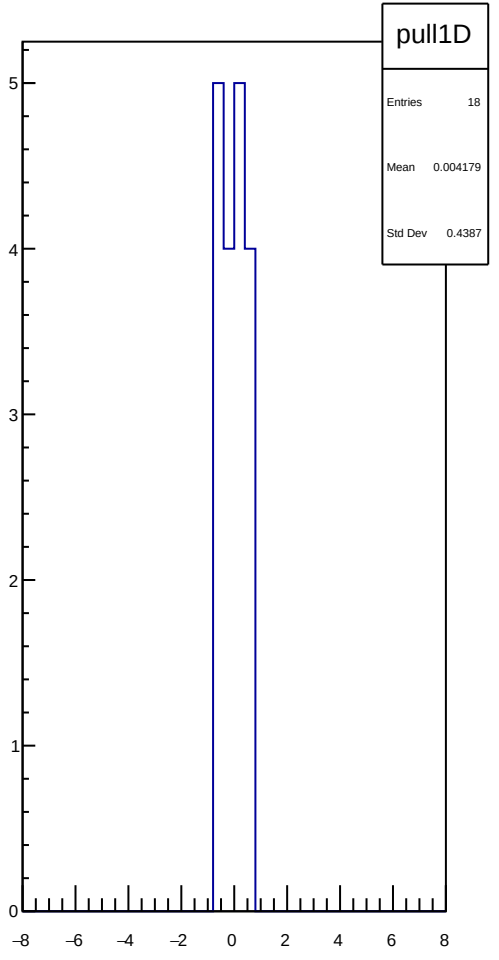

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 15.27 / 17
p0 302.6 ± 226.8
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 42.82
Std Dev 28.99
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 18
Mean −0.02838
Std Dev 0.9205
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

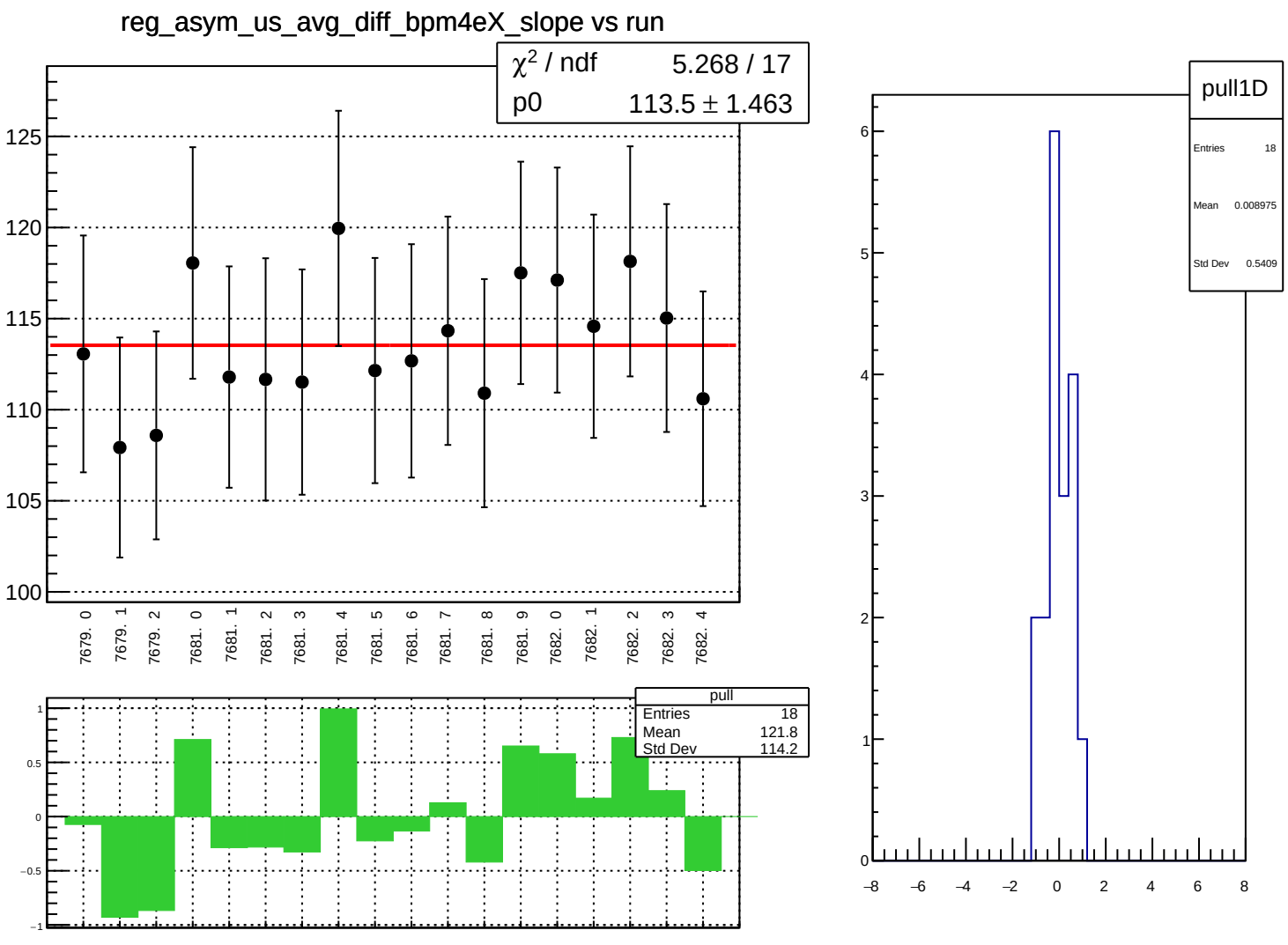

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 28.27 / 17
p0 26.93 ± 11.57
1500
1000
500
0
−500
−1000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 9.073
Std Dev 0.592
pull1D
Entries 18
Mean −0.13
Std Dev 1.247

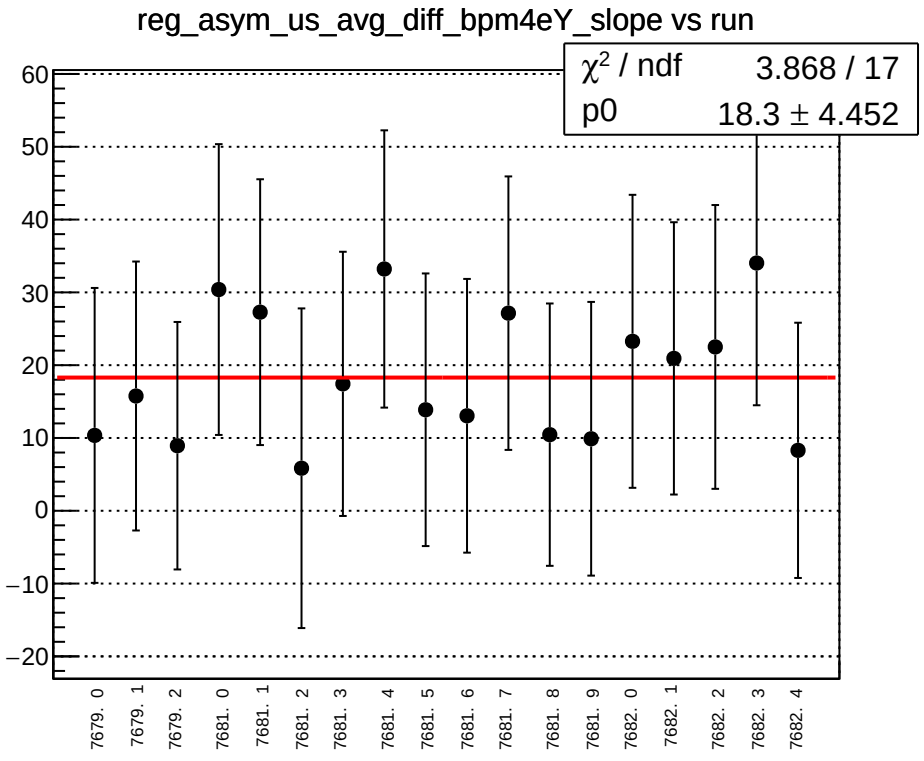

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 4.894 / 17
p0 −116.6 ± 1.806
−100
−105
−110
−115
−120
−125
−130
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 126.2
Std Dev 118.5
1
0.5
0
−0.5
−1

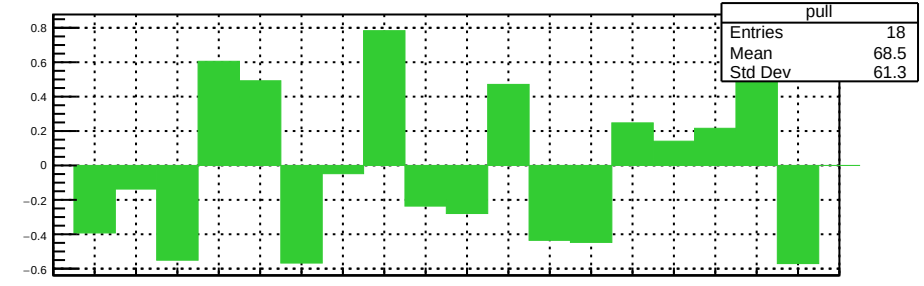

pull1D
Entries 18
Mean −0.00843
Std Dev 0.5213
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

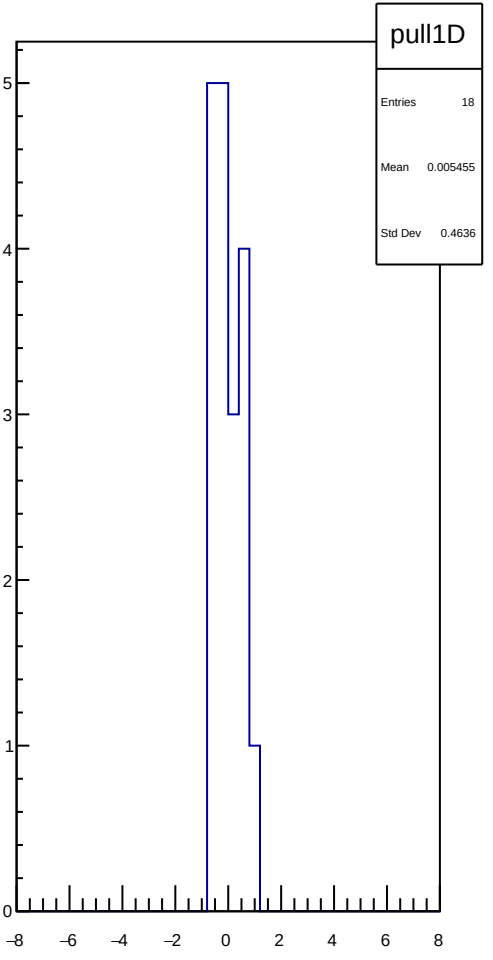

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.465 / 17
p0 6.318 ± 2.997
30
20
10
0
−10
−20
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −52.3
Std Dev 58.44
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

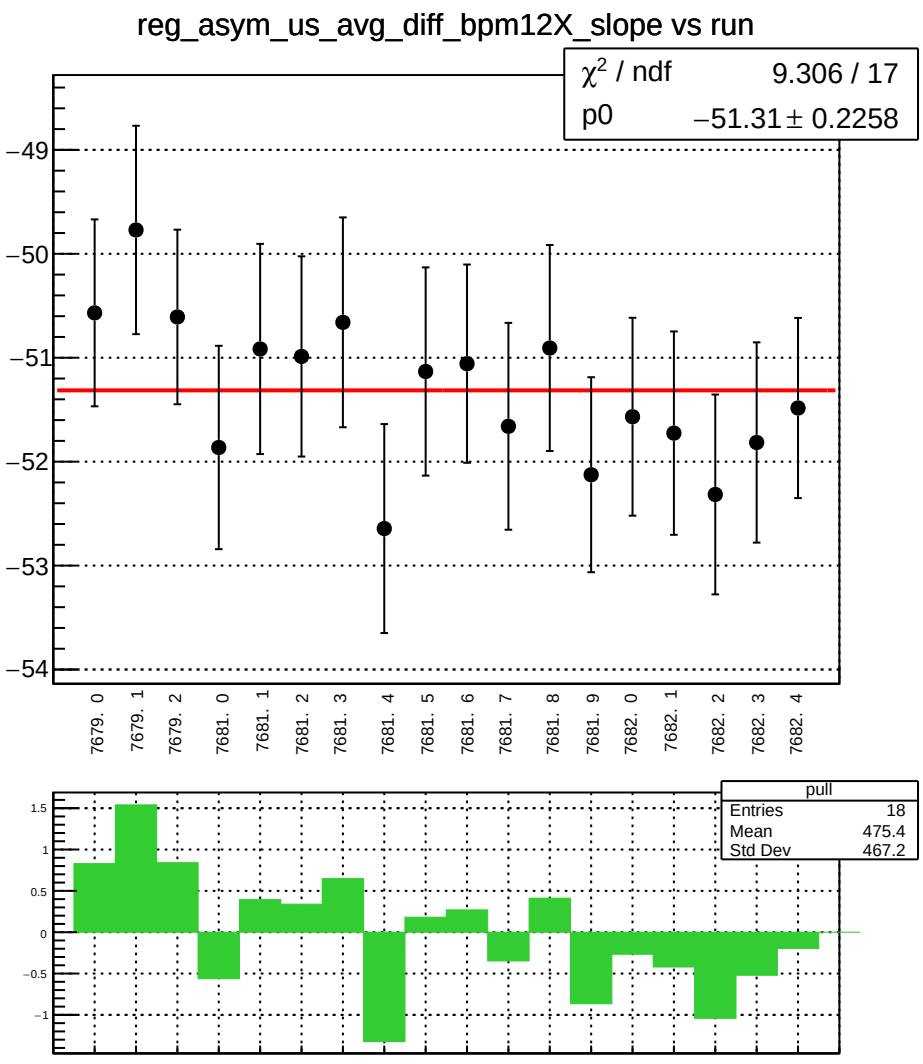

pull1D
Entries 18
Mean 0.004179
Std Dev 0.4387
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

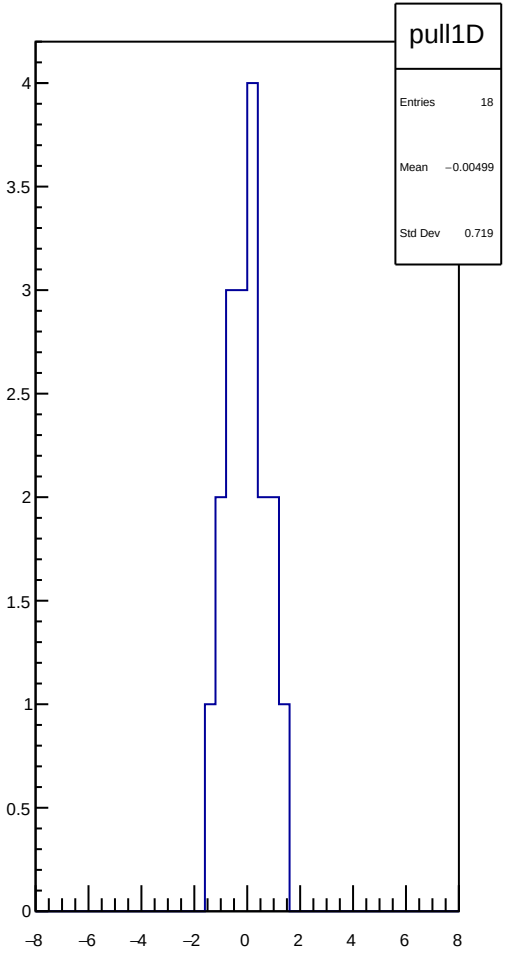

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 5.268 / 17
p0 113.5 ± 1.463
125
120
115
110
105
100
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 121.8
Std Dev 114.2
1
0.5
0
−0.5
−1
pull1D
Entries 18
Mean 0.008975
Std Dev 0.5409
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

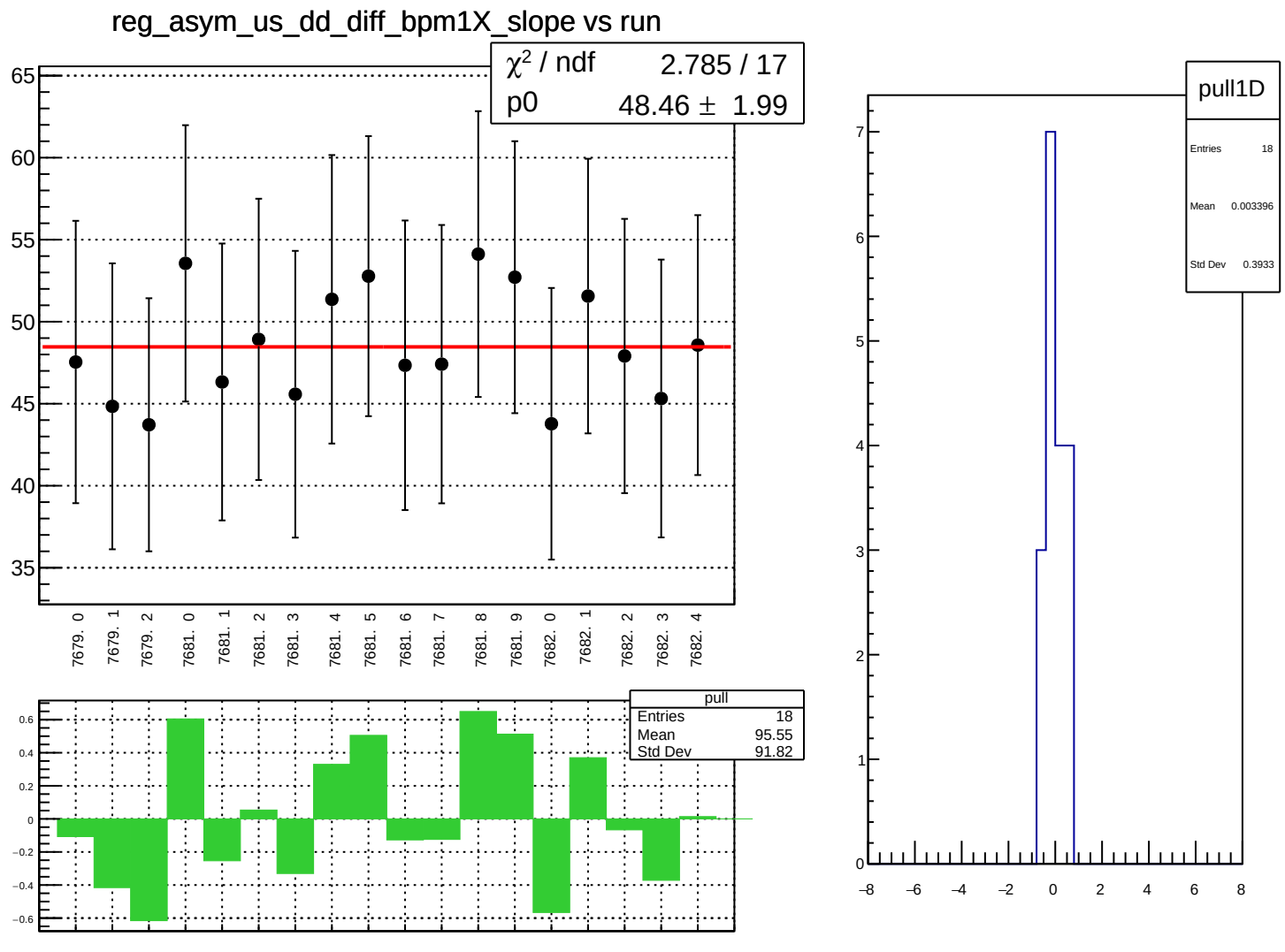

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.868 / 17
p0 18.3 ± 4.452
60
50
40
30
20
10
0
−10
−20
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

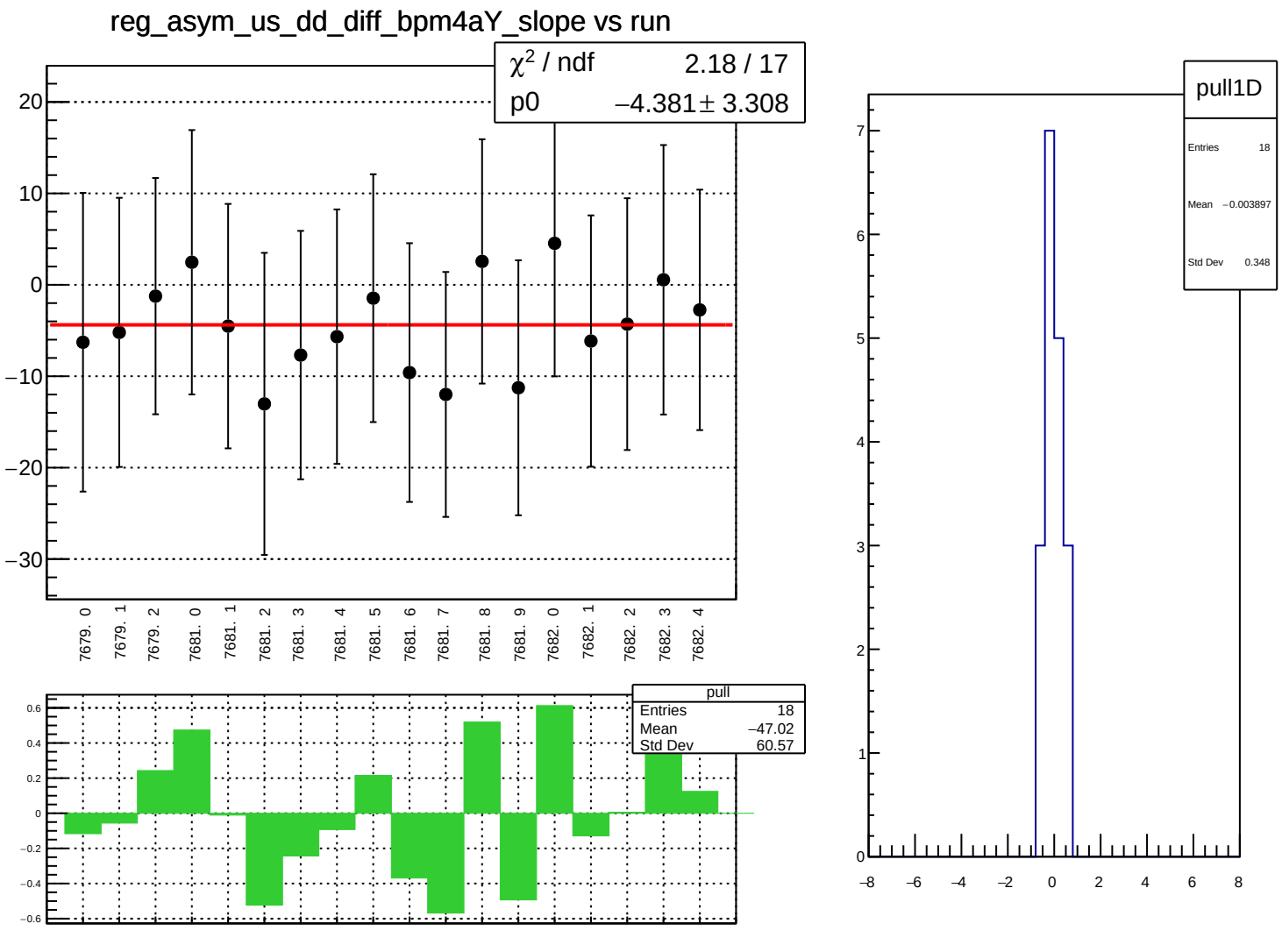

pull
Entries 18
Mean 68.5
Std Dev 61.3
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

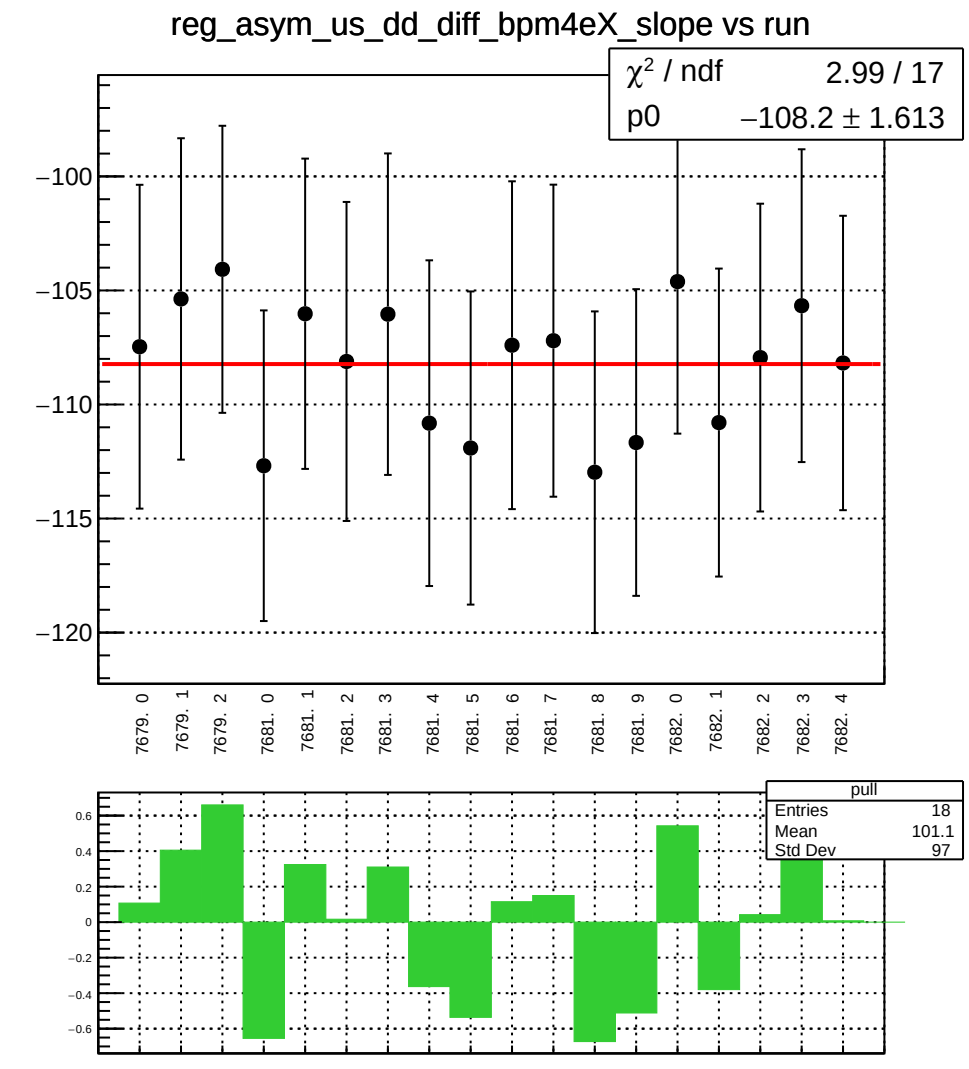

pull1D
Entries 18
Mean 0.005455
Std Dev 0.4636
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

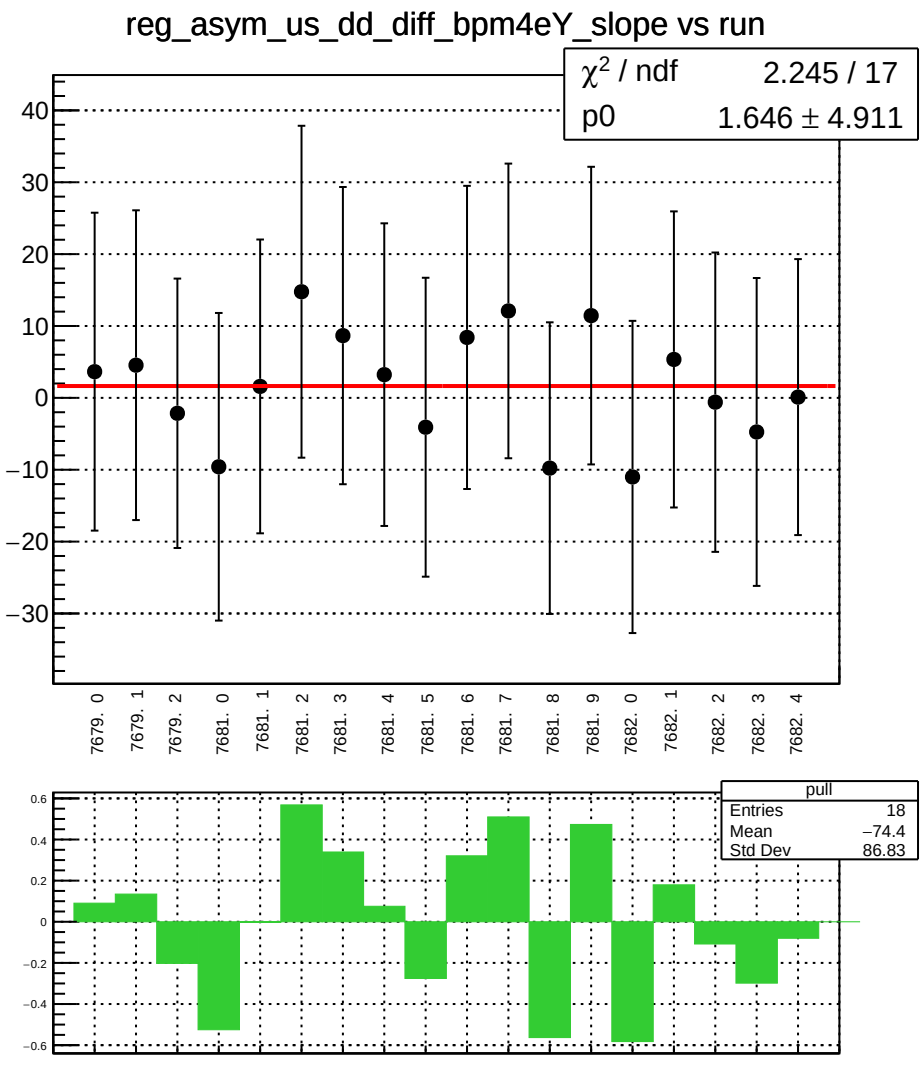

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 9.306 / 17
p0 −51.31 ± 0.2258
−49
−50
−51
−52
−53
−54
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 475.4
Std Dev 467.2
1.5
1
0.5
0
−0.5
−1

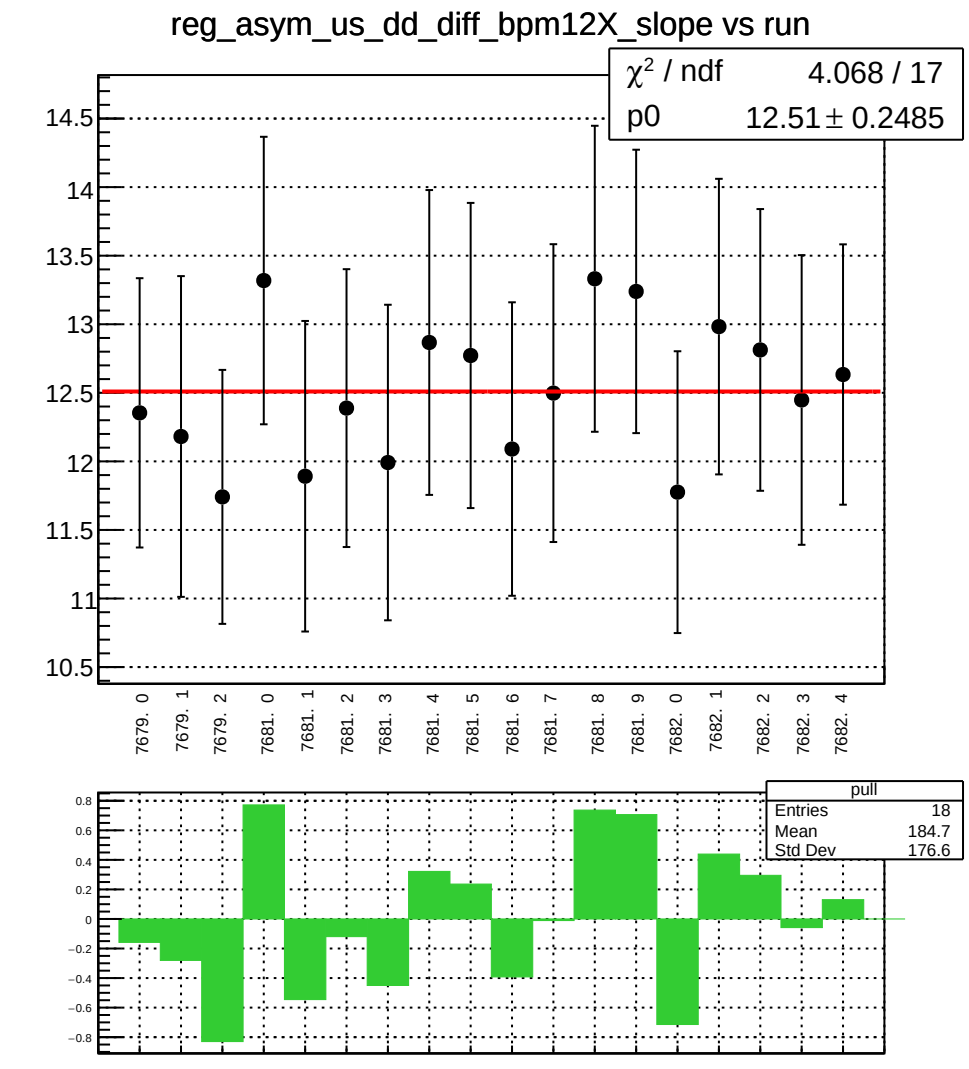

pull1D
Entries 18
Mean −0.00499
Std Dev 0.719
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

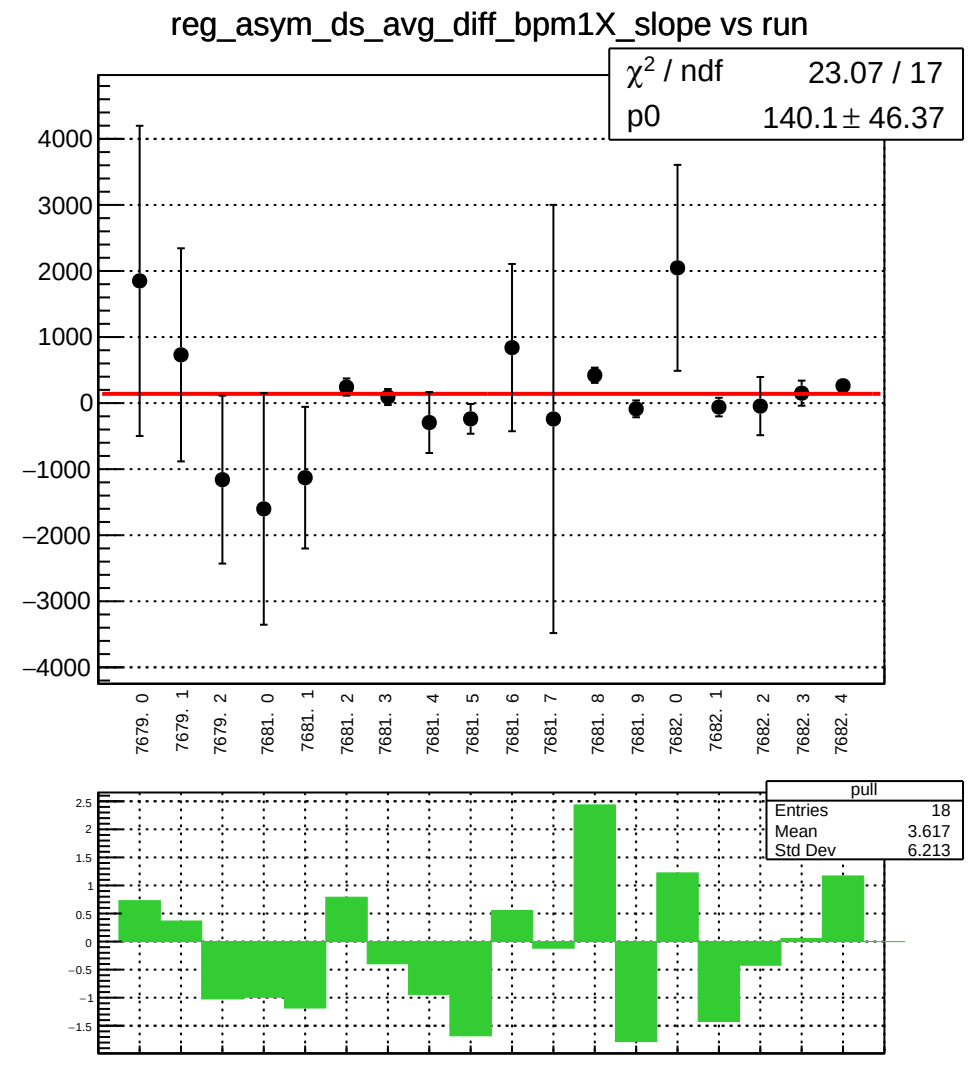

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 2.785 / 17
p0 48.46 ± 1.99
65
60
55
50
45
40
35
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 95.55
Std Dev 91.82
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 18
Mean 0.003396
Std Dev 0.3933
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

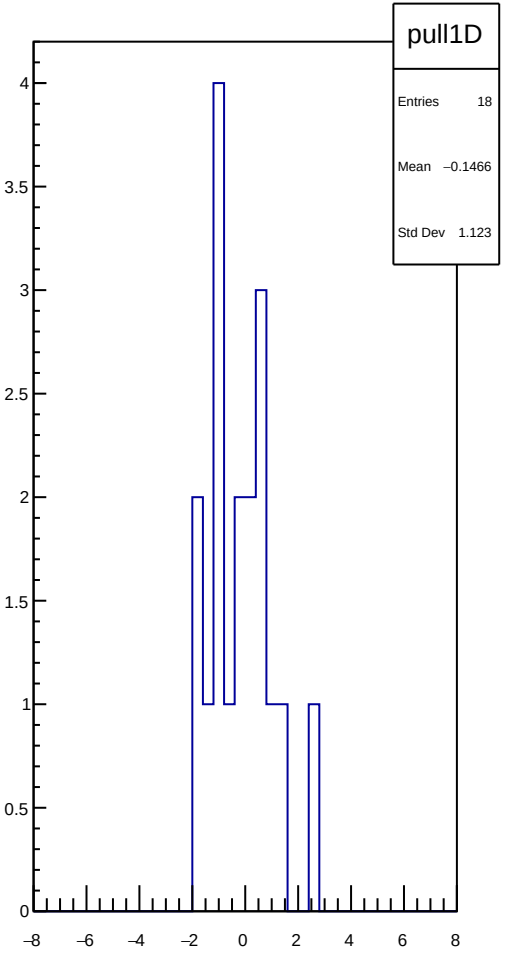

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.18 / 17
p0 −4.381 ± 3.308
20
10
0
−10
−20
−30
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −47.02
Std Dev 60.57
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 18
Mean −0.003897
Std Dev 0.348
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

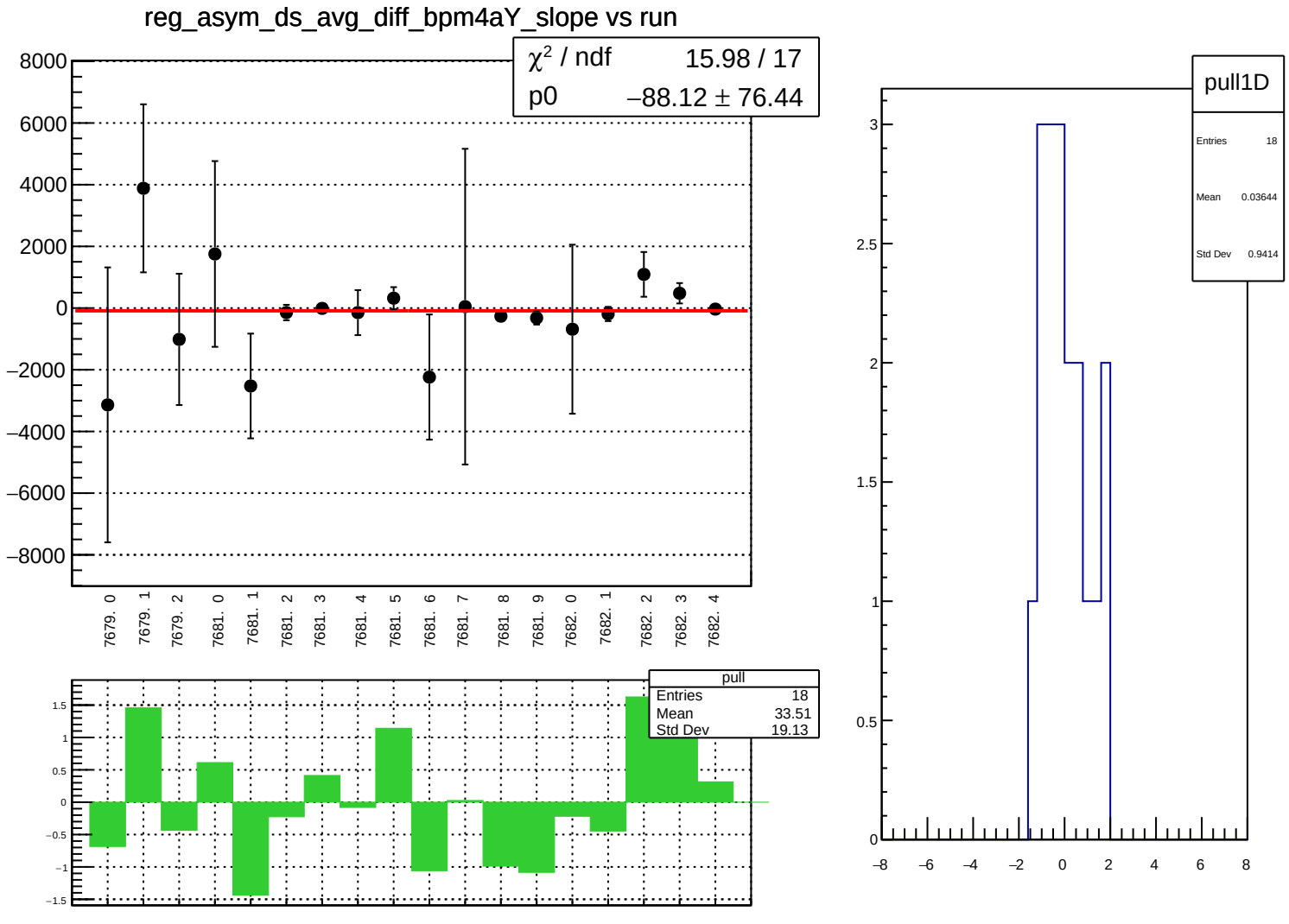

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.99 / 17
p0 −108.2 ± 1.613
−100
−105
−110
−115
−120
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 101.1
Std Dev 97
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 18
Mean −0.003515
Std Dev 0.4076
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

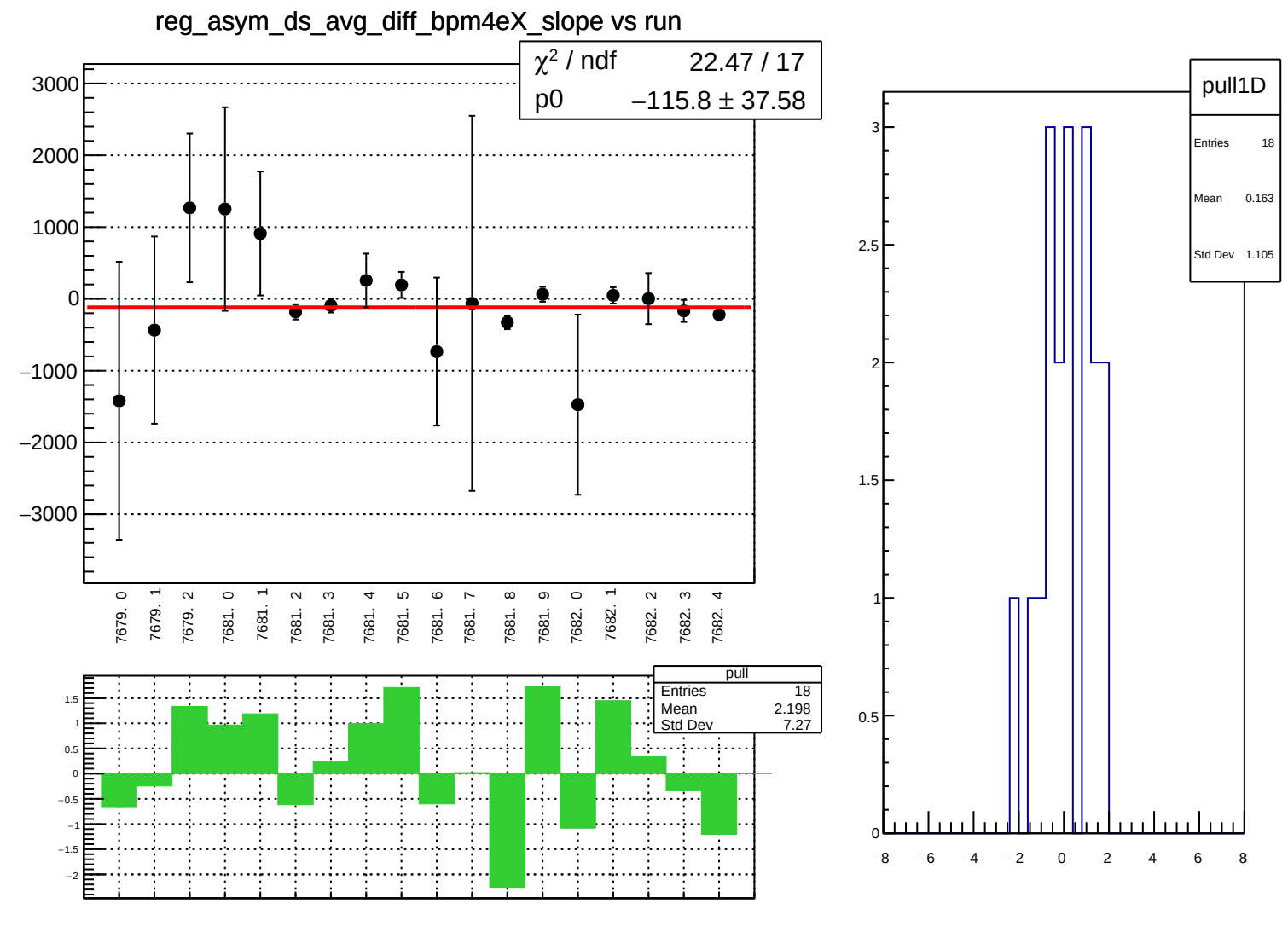

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.245 / 17
p0 1.646 ± 4.911
40
30
20
10
0
−10
−20
−30
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −74.4
Std Dev 86.83
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 18
Mean 0.002968
Std Dev 0.3531
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

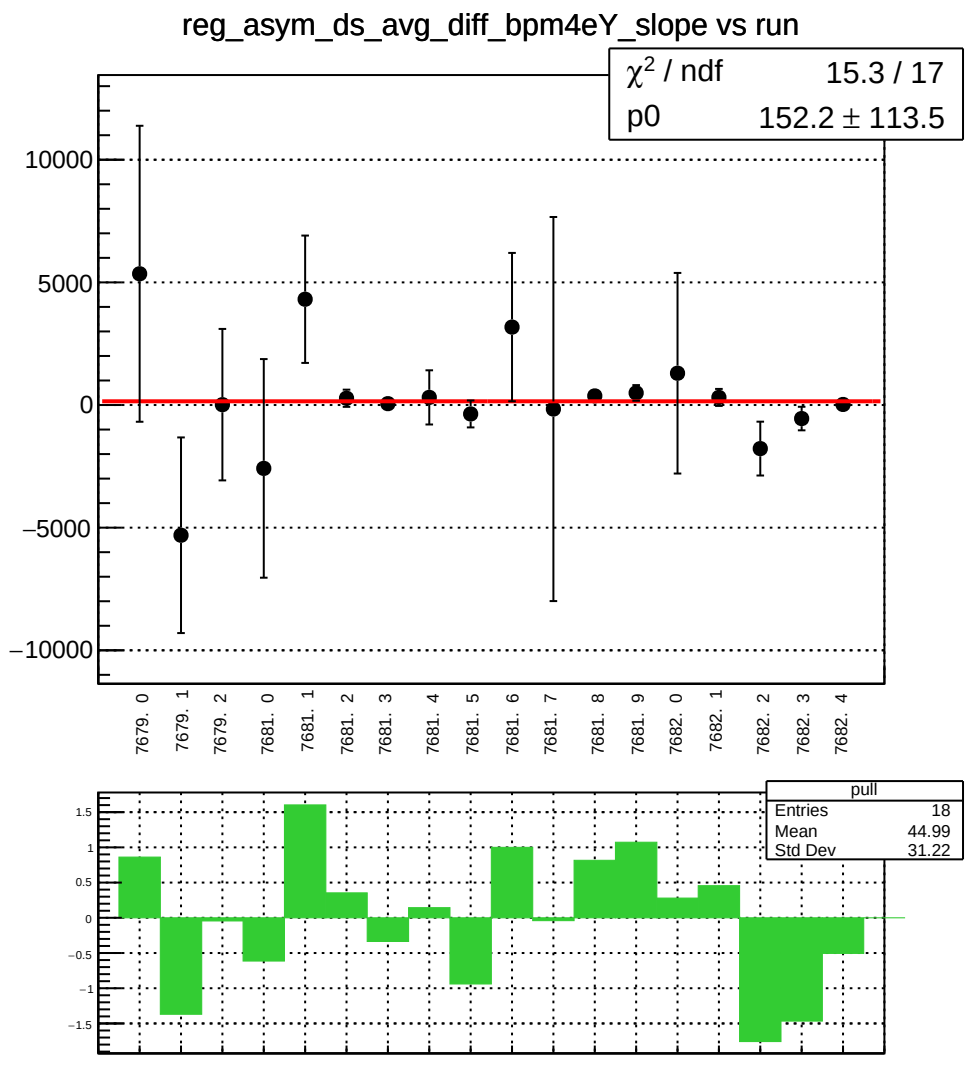

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 4.068 / 17
p0 12.51 ± 0.2485
14.5
14
13.5
13
12.5
12
11.5
11
10.5
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 184.7
Std Dev 176.6
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 18
Mean 0.004391
Std Dev 0.4754
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

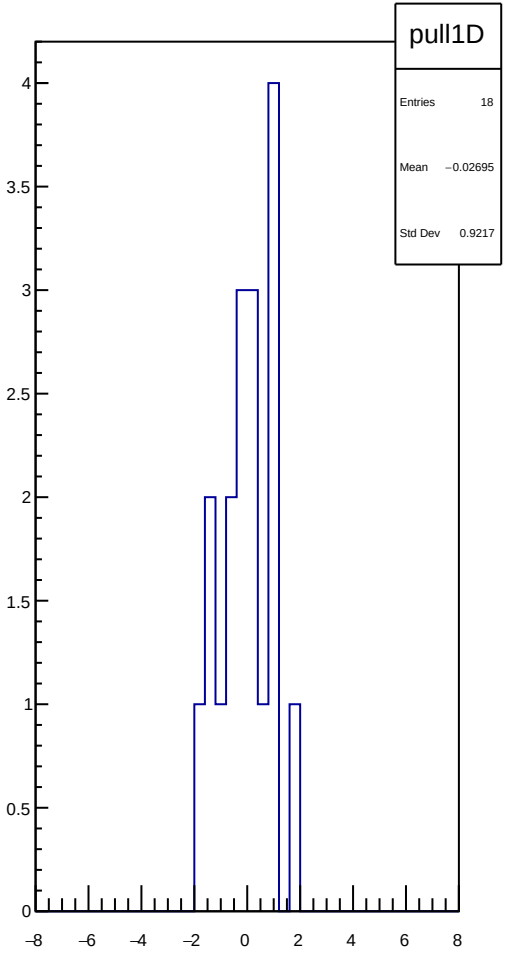

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 23.07 / 17
p0 140.1 ± 46.37
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 3.617
Std Dev 6.213
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

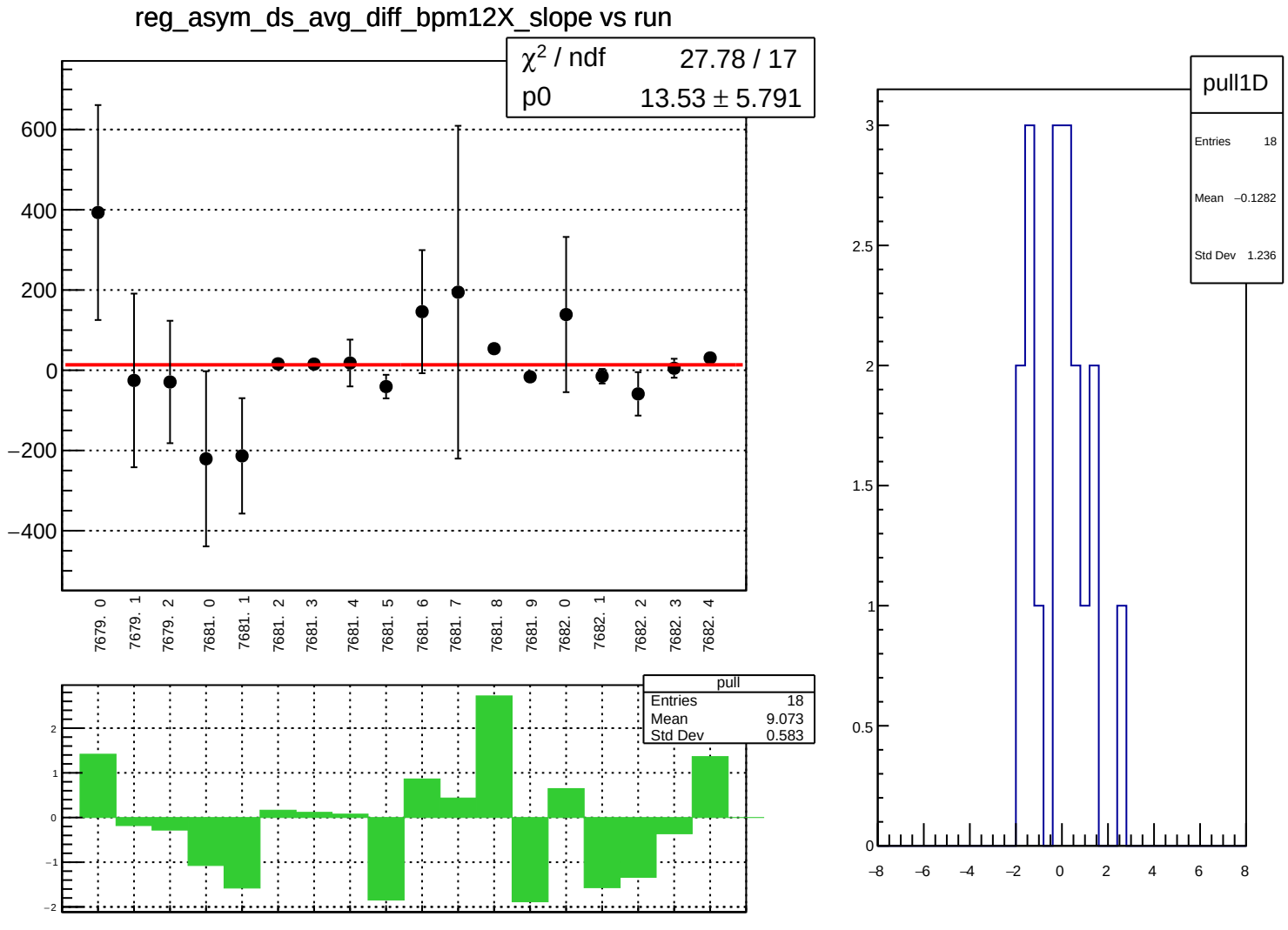

pull1D
Entries 18
Mean −0.1466
Std Dev 1.123
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

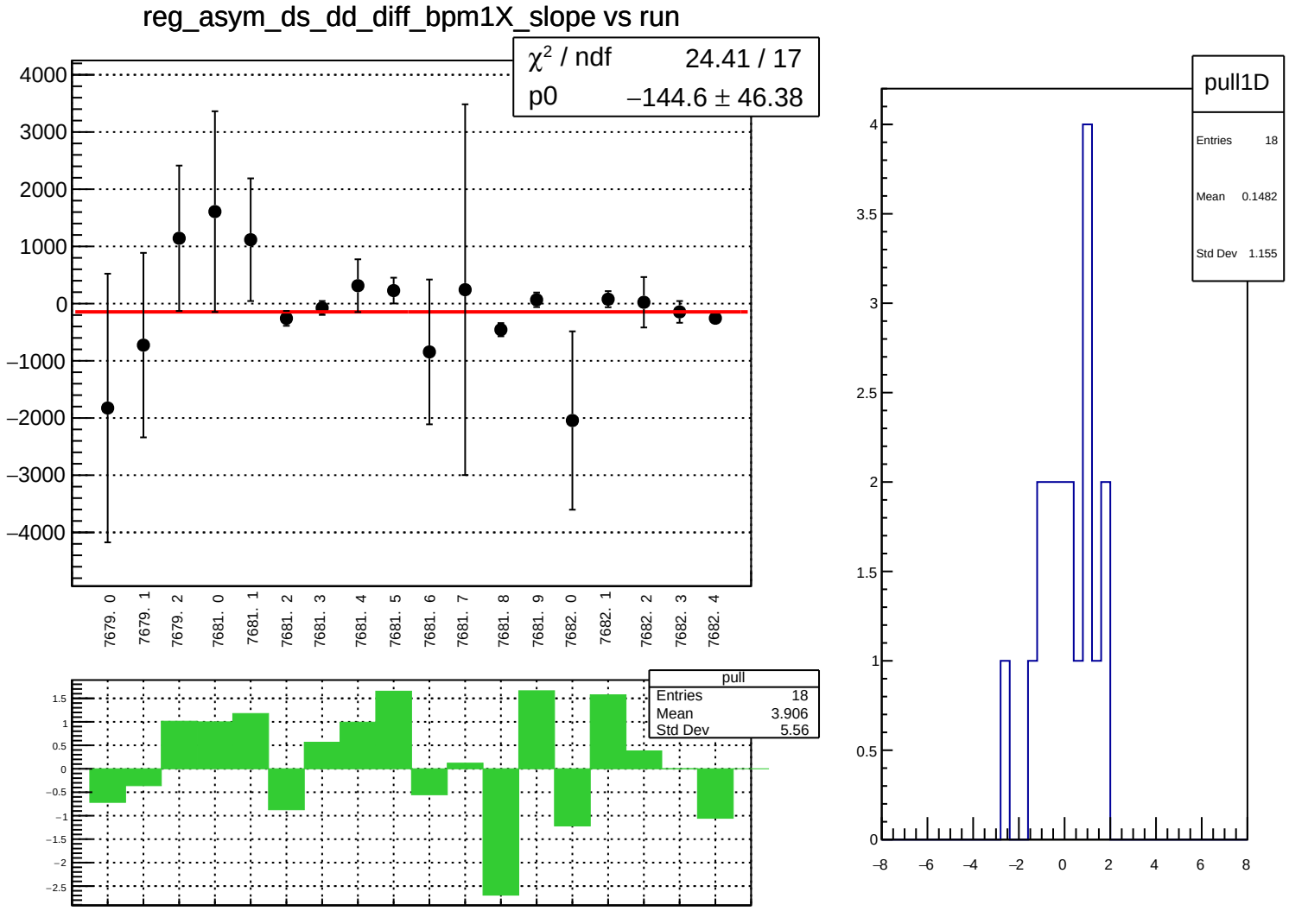

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 15.98 / 17
p0 −88.12 ± 76.44
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 33.51
Std Dev 19.13
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 18
Mean 0.03644
Std Dev 0.9414
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

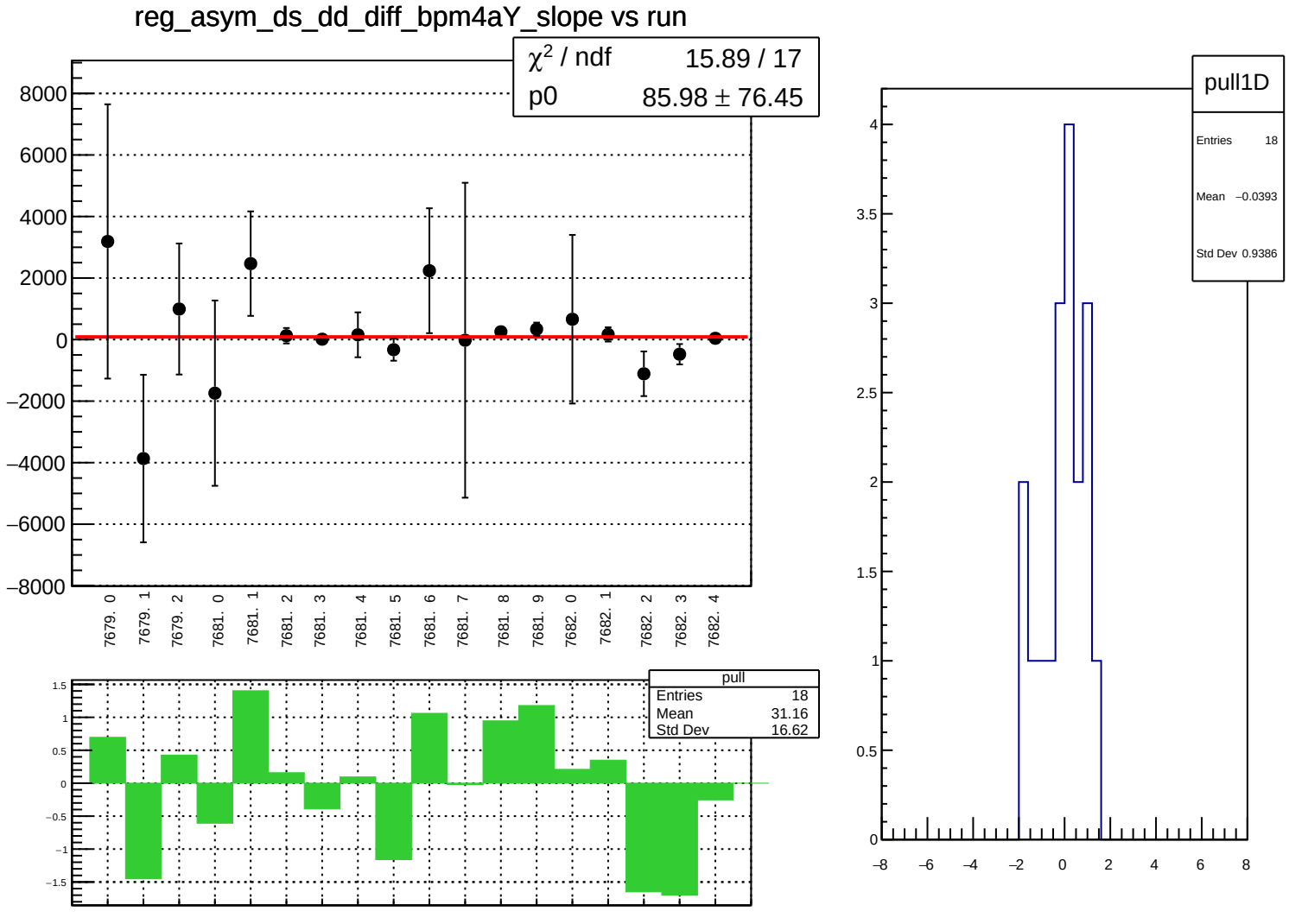

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 22.47 / 17
p0 −115.8 ± 37.58
3000
2000
1000
0
−1000
−2000
−3000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 2.198
Std Dev 7.27
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 18
Mean 0.163
Std Dev 1.105
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

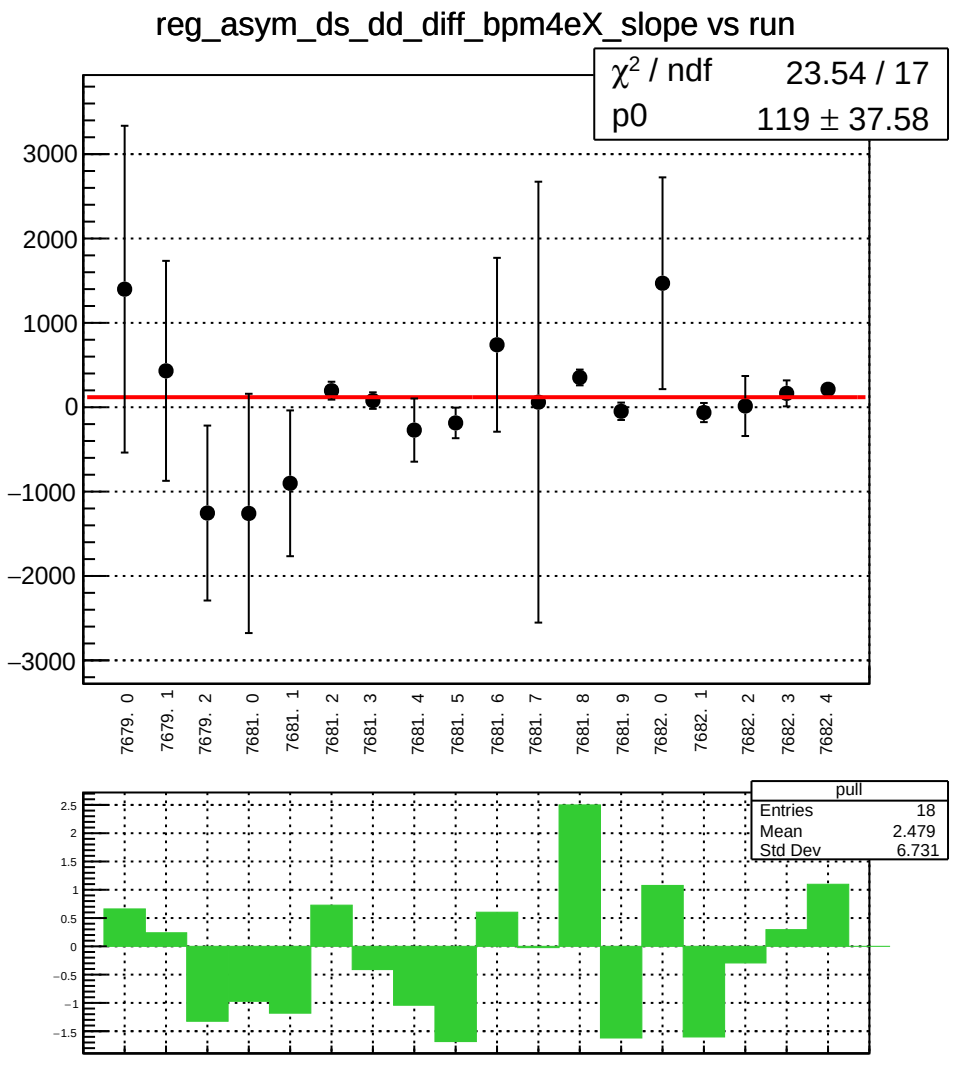

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 15.3 / 17
p0 152.2 ± 113.5
10000
5000
0
−5000
−10000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 44.99
Std Dev 31.22
1.5
1
0.5
0
−0.5
−1
−1.5

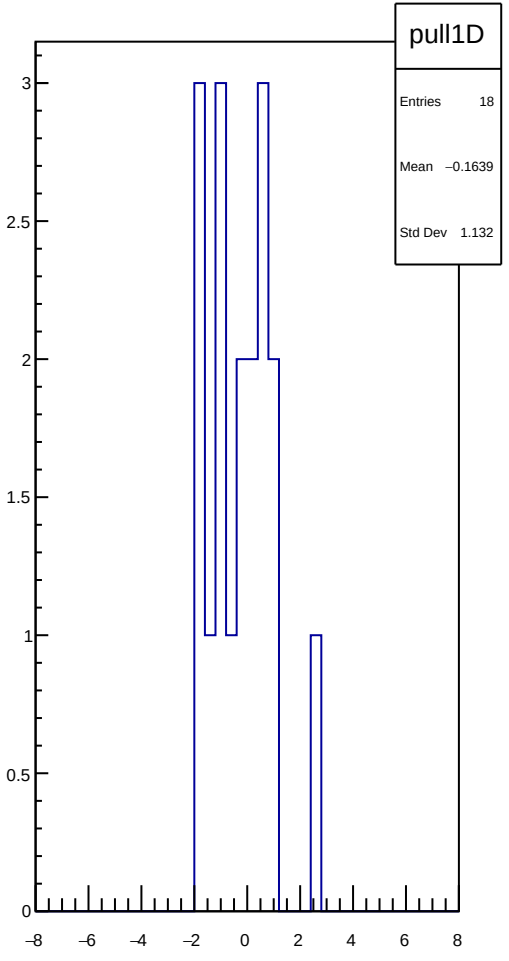

pull1D
Entries 18
Mean −0.02695
Std Dev 0.9217
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

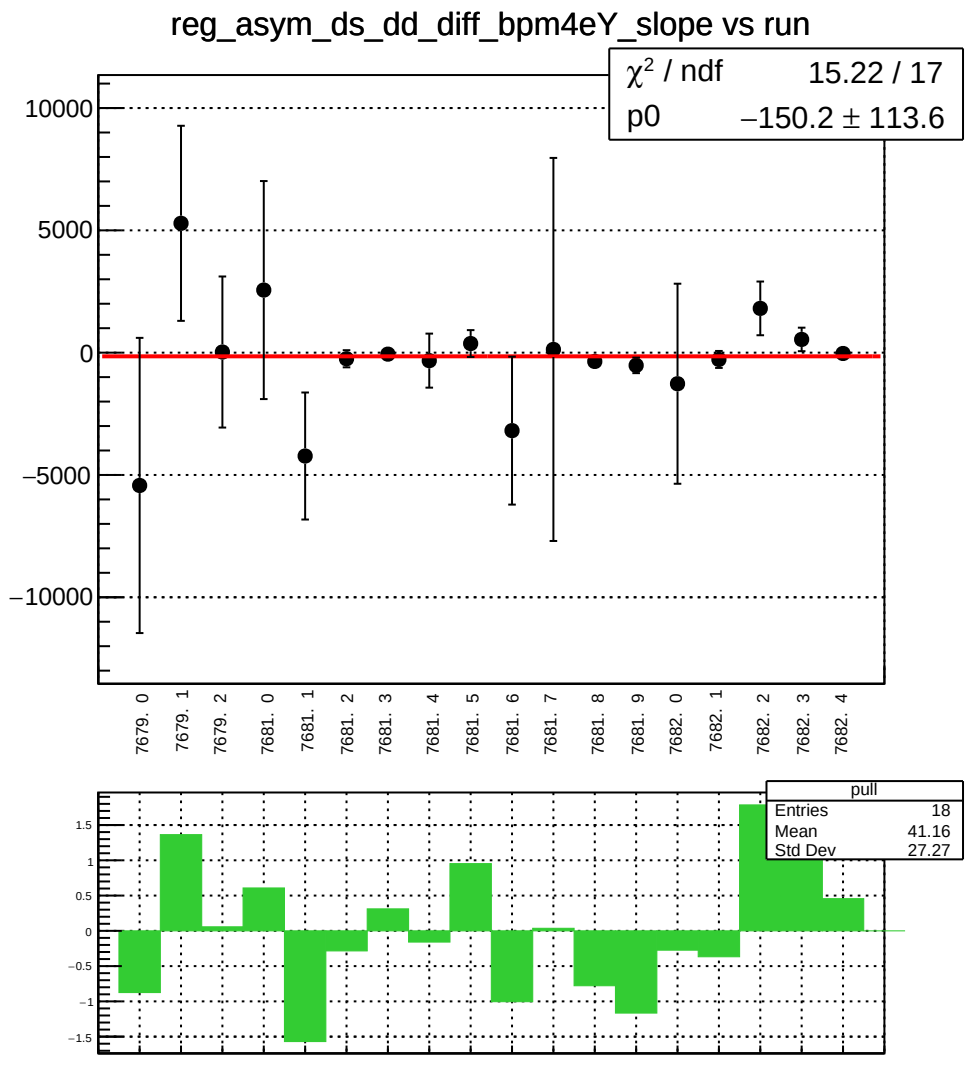

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 27.78 / 17
p0 13.53 ± 5.791
600
400
200
0
−200
−400
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 9.073
Std Dev 0.583
2
1
0
−1
−2
pull1D
Entries 18
Mean −0.1282
Std Dev 1.236
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

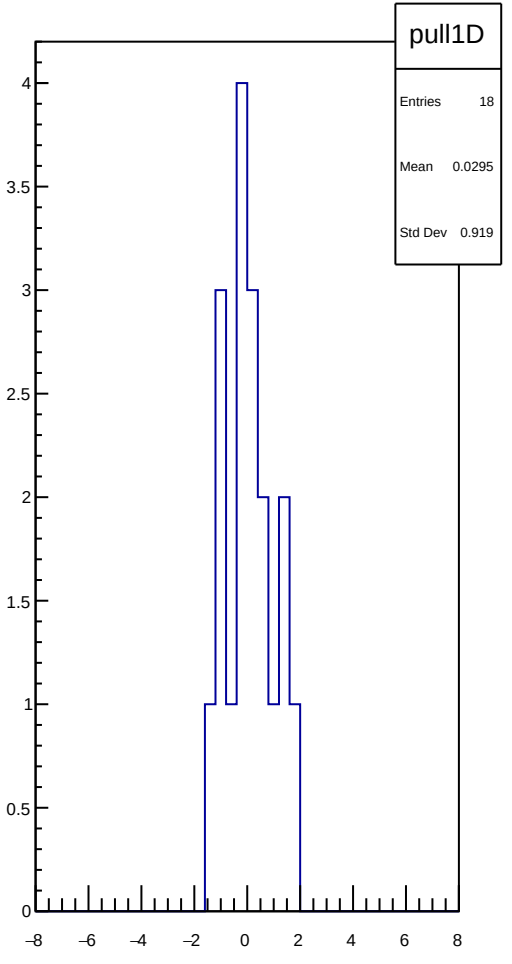

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 24.41 / 17
p0 −144.6 ± 46.38
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 3.906
Std Dev 5.56
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 18
Mean 0.1482
Std Dev 1.155
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

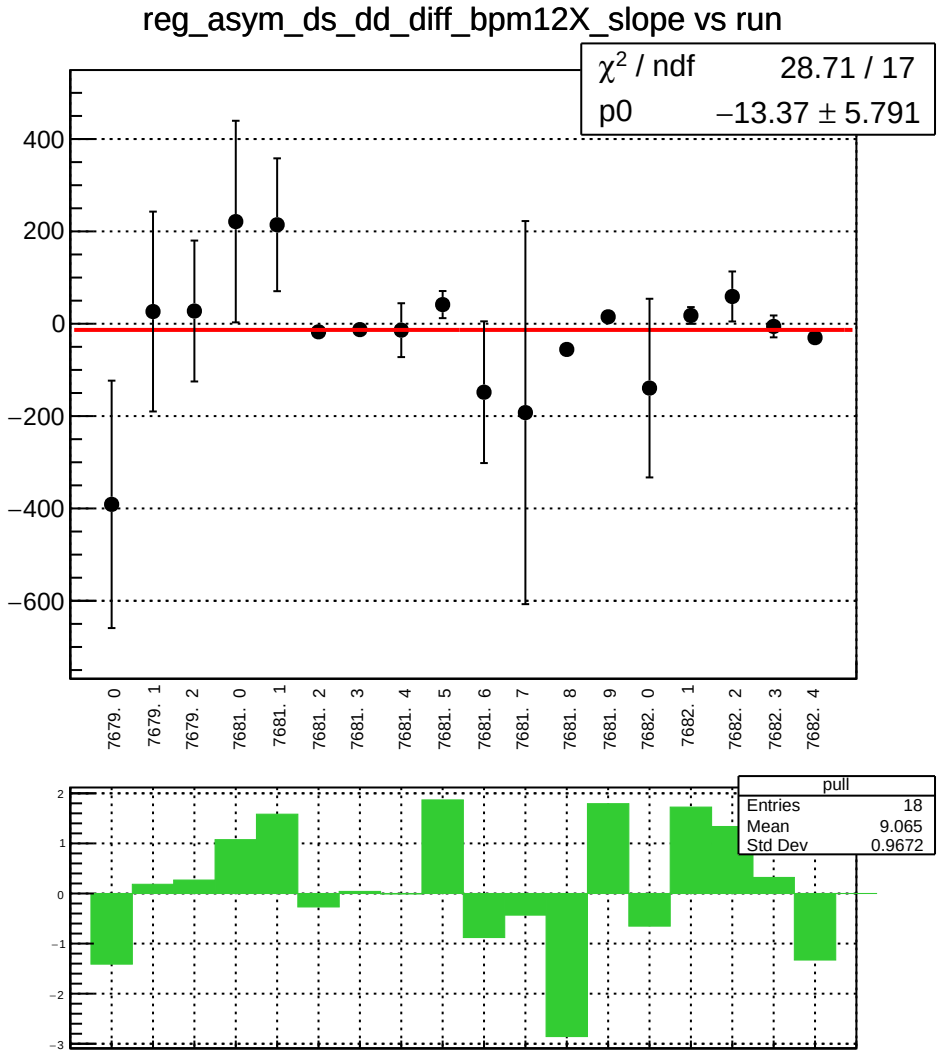

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 15.89 / 17
p0 85.98 ± 76.45
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 31.16
Std Dev 16.62
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 18
Mean −0.0393
Std Dev 0.9386
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

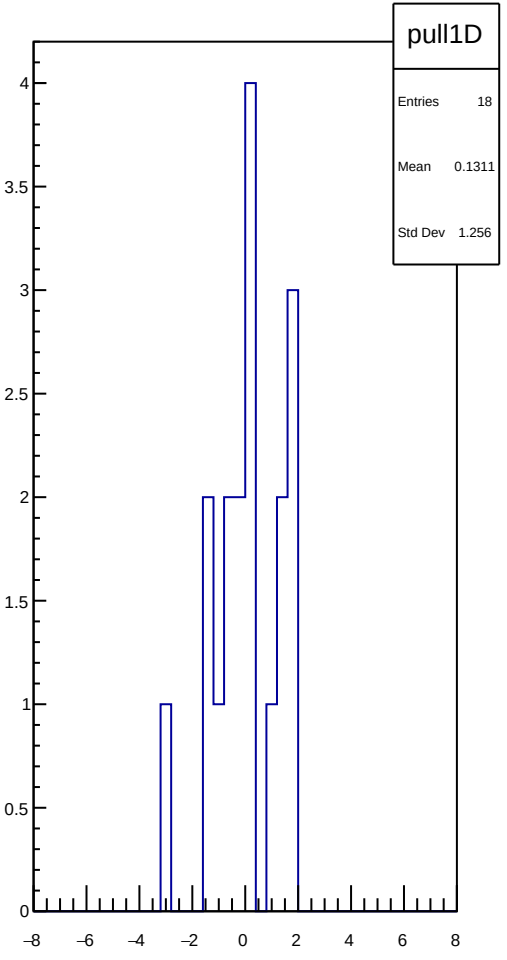

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 23.54 / 17
p0 119 ± 37.58
3000
2000
1000
0
−1000
−2000
−3000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 2.479
Std Dev 6.731
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

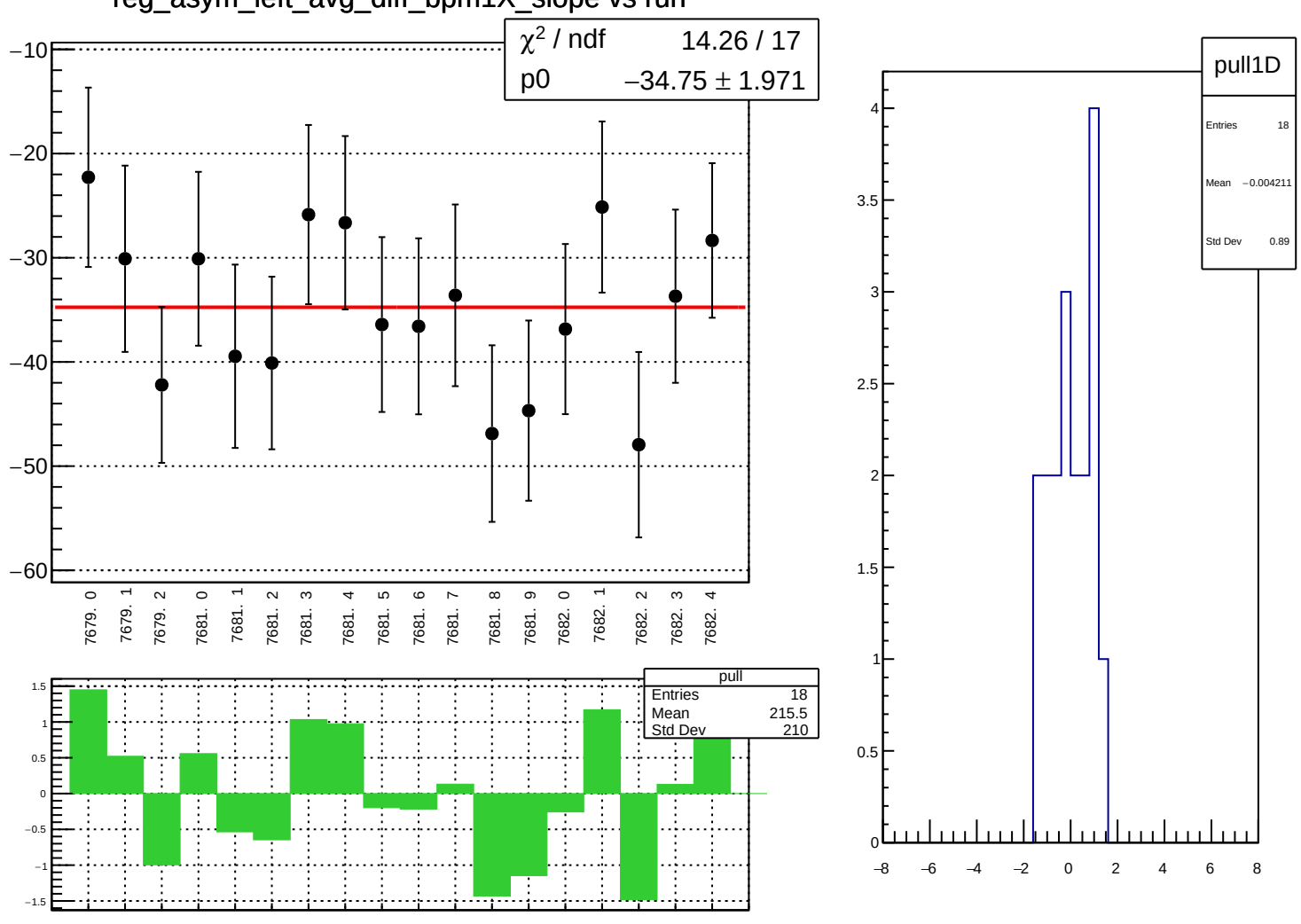

pull1D
Entries 18
Mean −0.1639
Std Dev 1.132
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

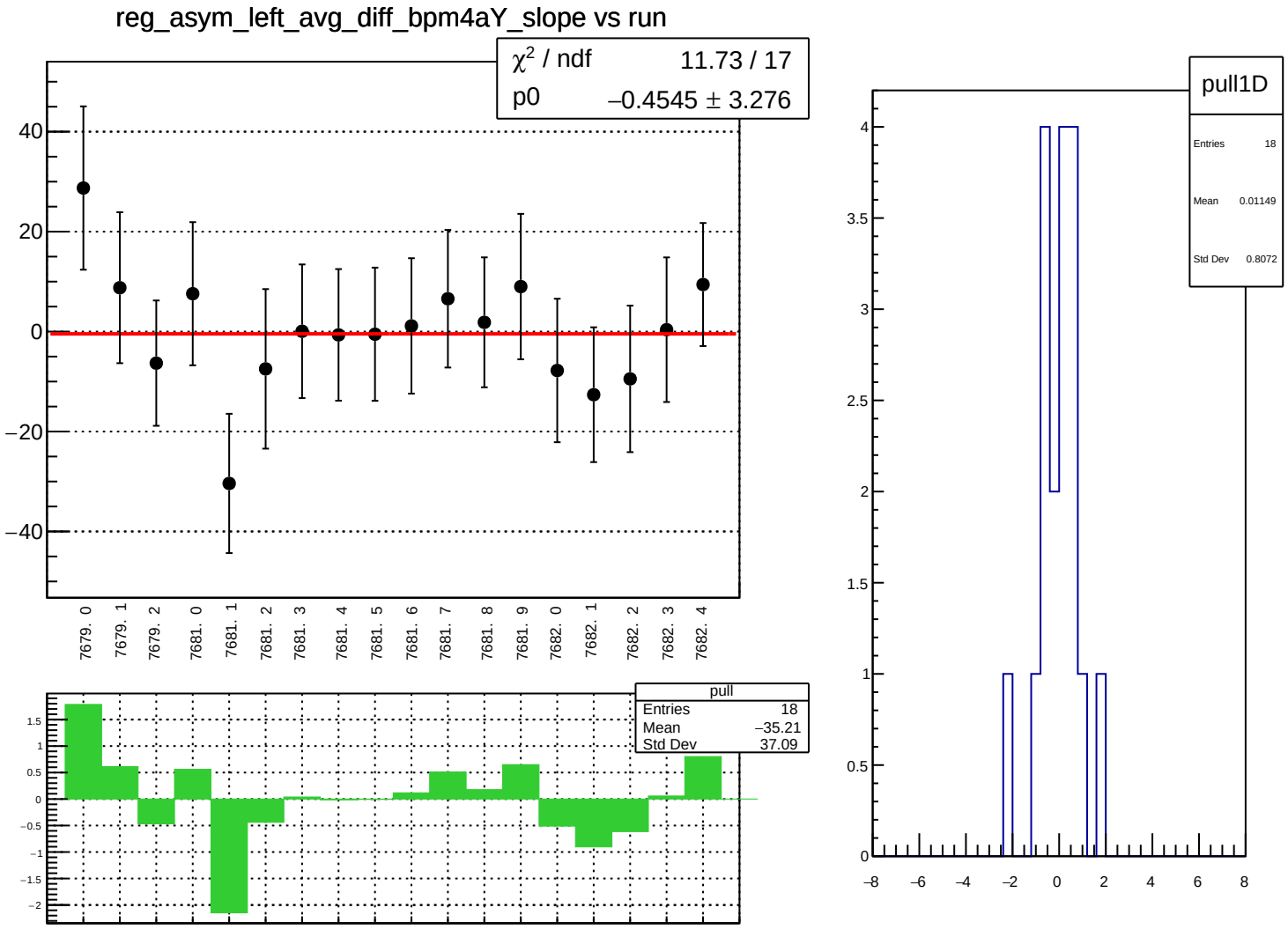

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 15.22 / 17
p0 −150.2 ± 113.6
10000
5000
0
−5000
−10000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 41.16
Std Dev 27.27
1.5
1
0.5
0
−0.5
−1
−1.5

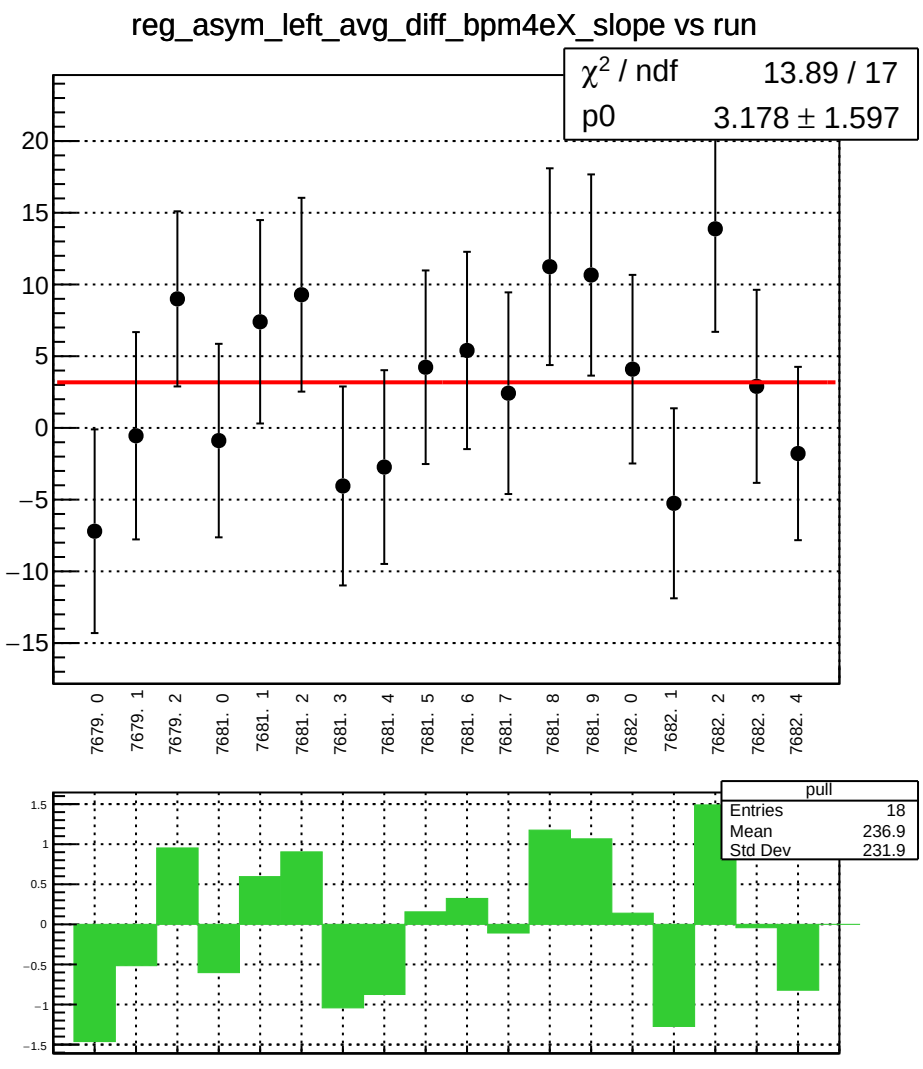

pull1D
Entries 18
Mean 0.0295
Std Dev 0.919
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

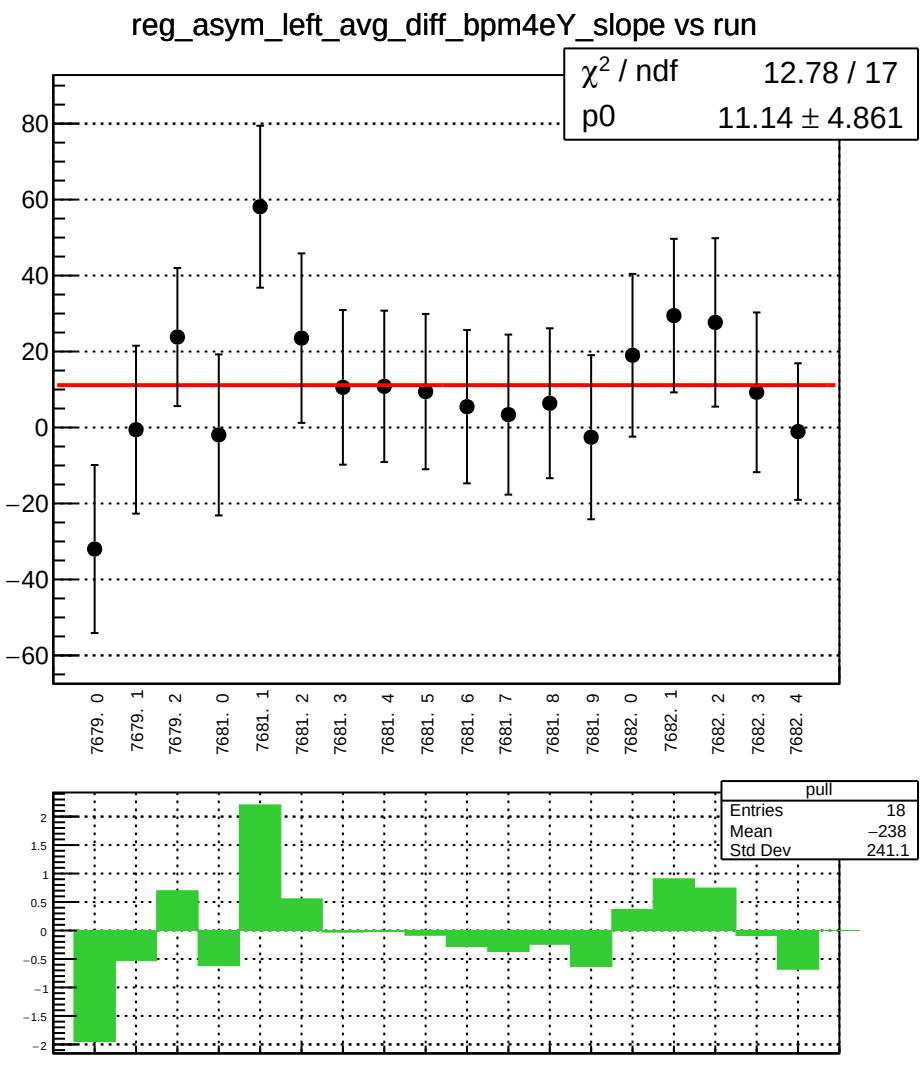

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 28.71 / 17
p0 −13.37 ± 5.791
400
200
0
−200
−400
−600
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 9.065
Std Dev 0.9672
2
1
0
−1
−2
−3

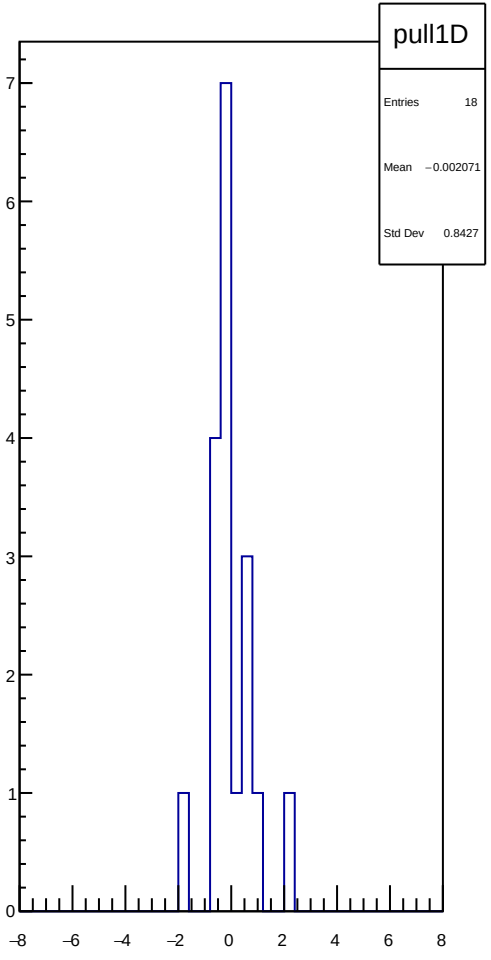

pull1D
Entries 18
Mean 0.1311
Std Dev 1.256
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

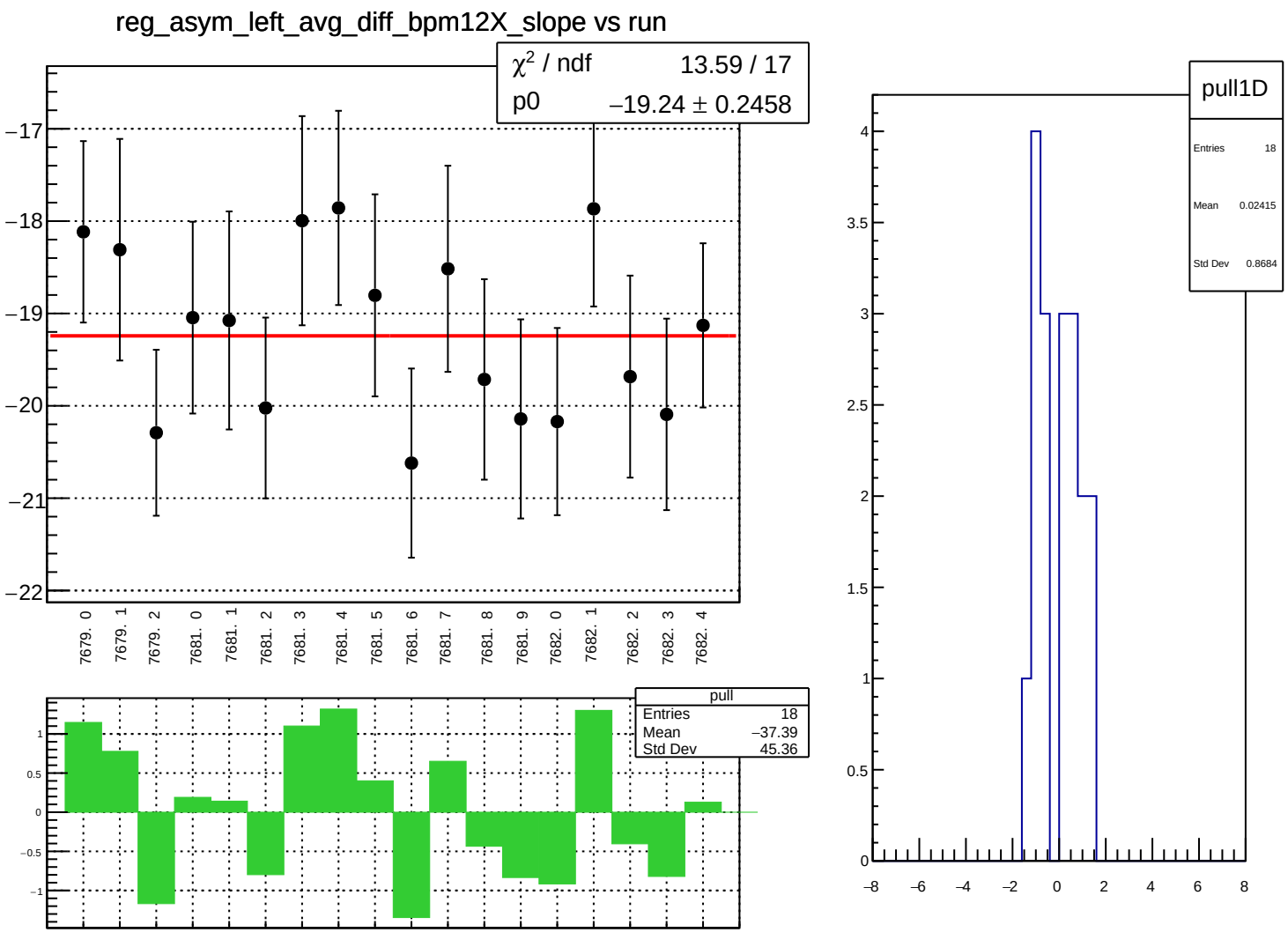

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 14.26 / 17
p0 −34.75 ± 1.971
−10
−20
−30
−40
−50
−60
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 215.5
Std Dev 210
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 18
Mean −0.004211
Std Dev 0.89
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

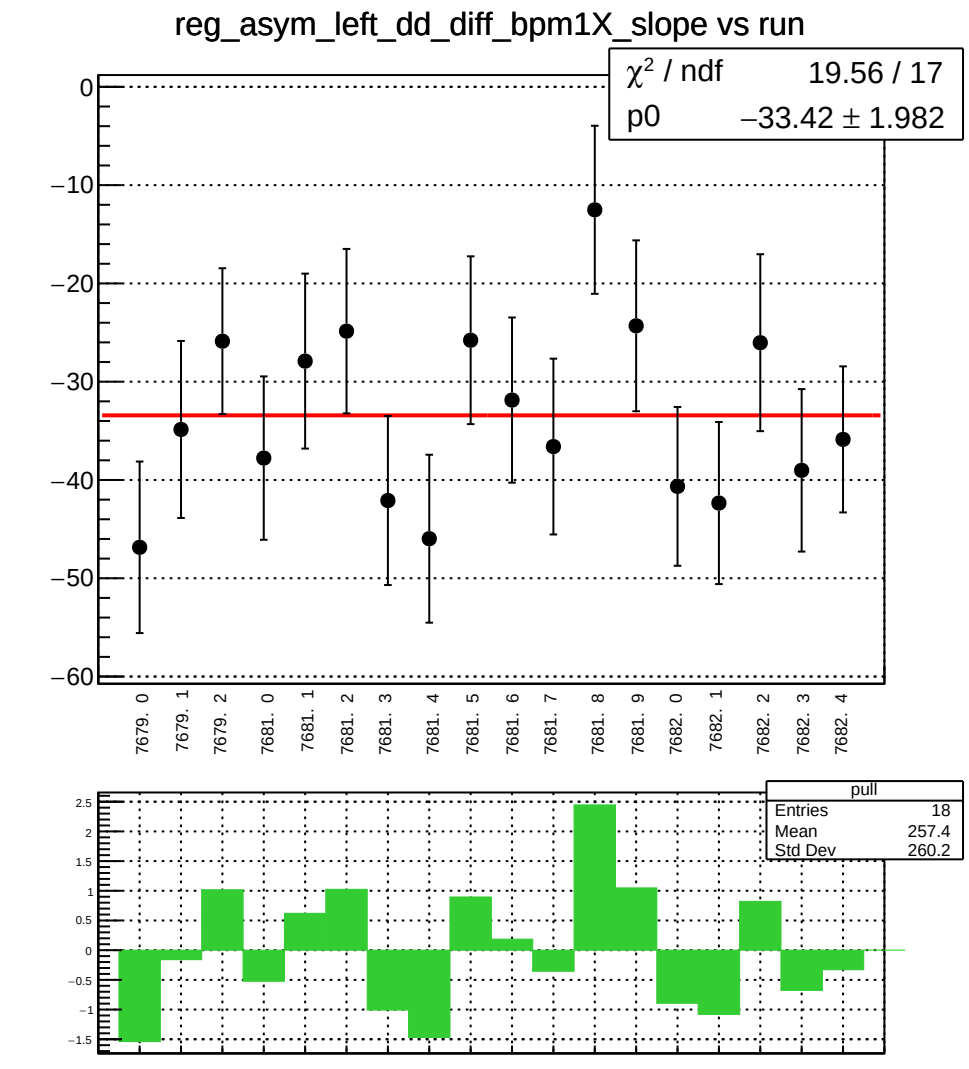

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.73 / 17
p0 −0.4545 ± 3.276
40
20
0
−20
−40
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −35.21
Std Dev 37.09
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 18
Mean 0.01149
Std Dev 0.8072
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

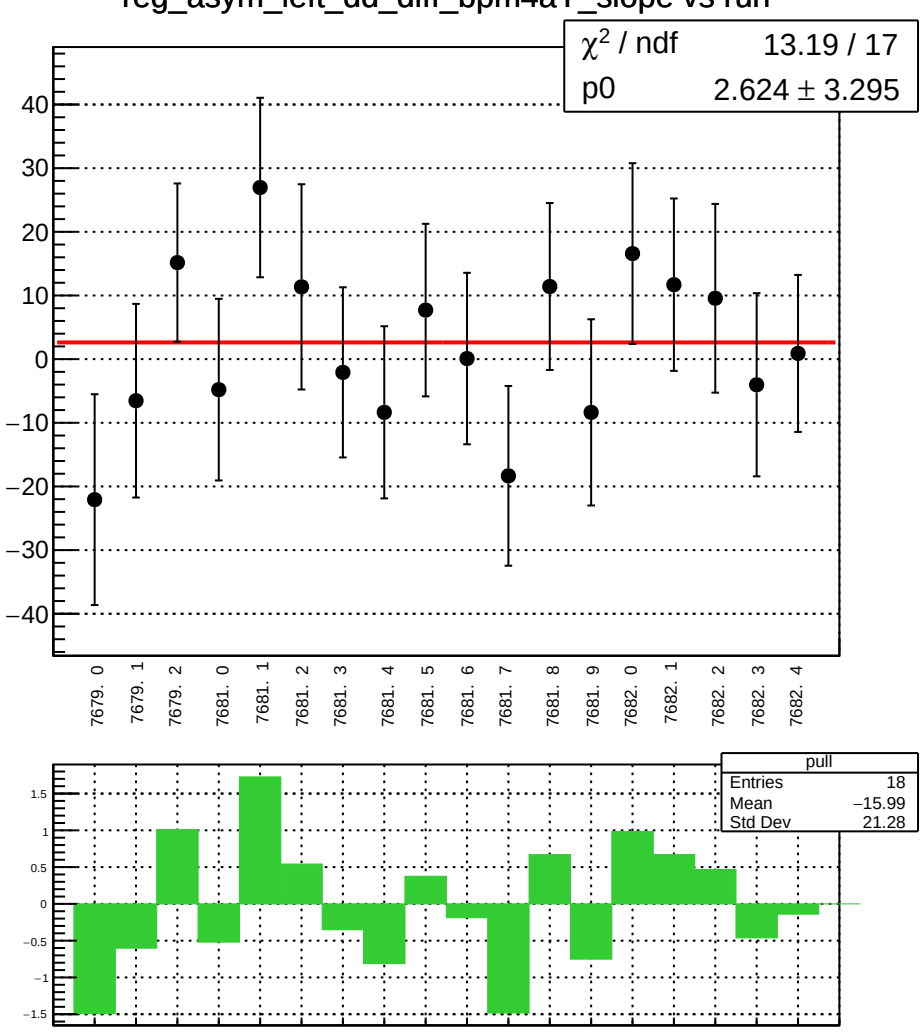

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 13.89 / 17
p0 3.178 ± 1.597
20
15
10
5
0
−5
−10
−15
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 236.9
Std Dev 231.9
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 18
Mean 0.003435
Std Dev 0.8785
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

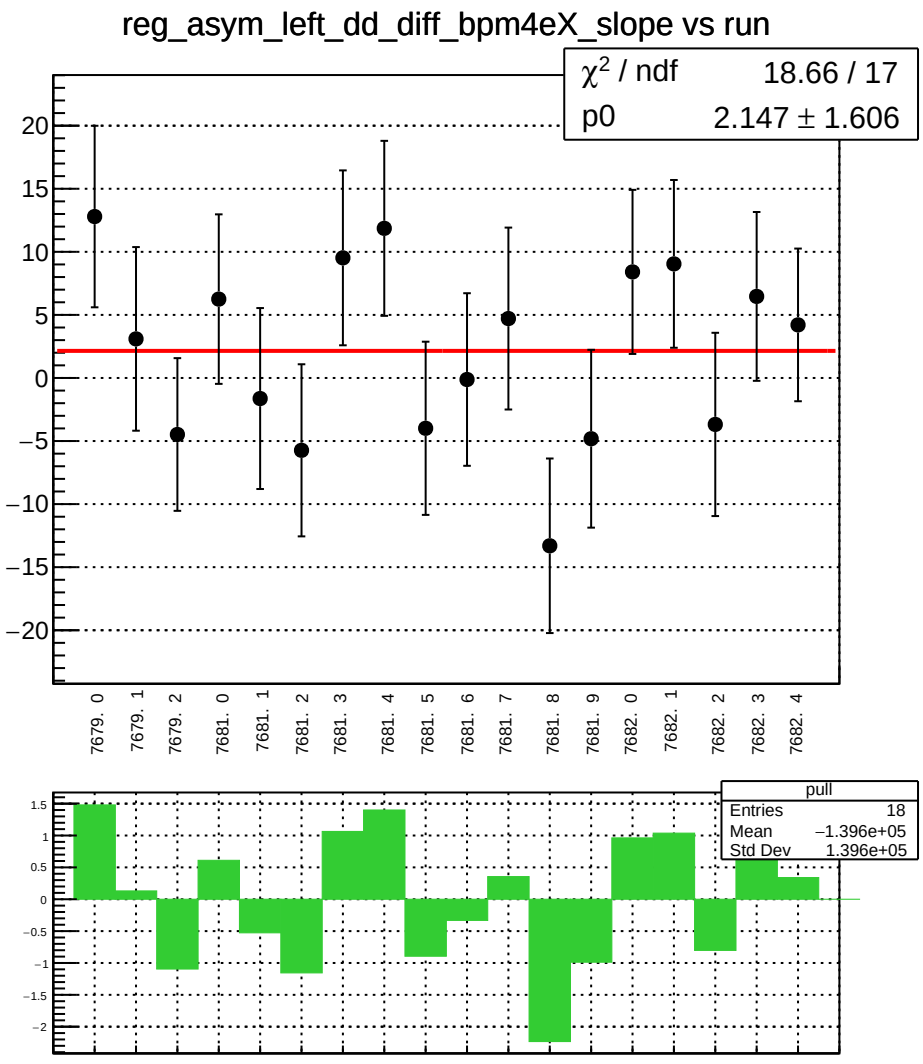

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 12.78 / 17
p0 11.14 ± 4.861
80
60
40
20
0
−20
−40
−60
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −238
Std Dev 241.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

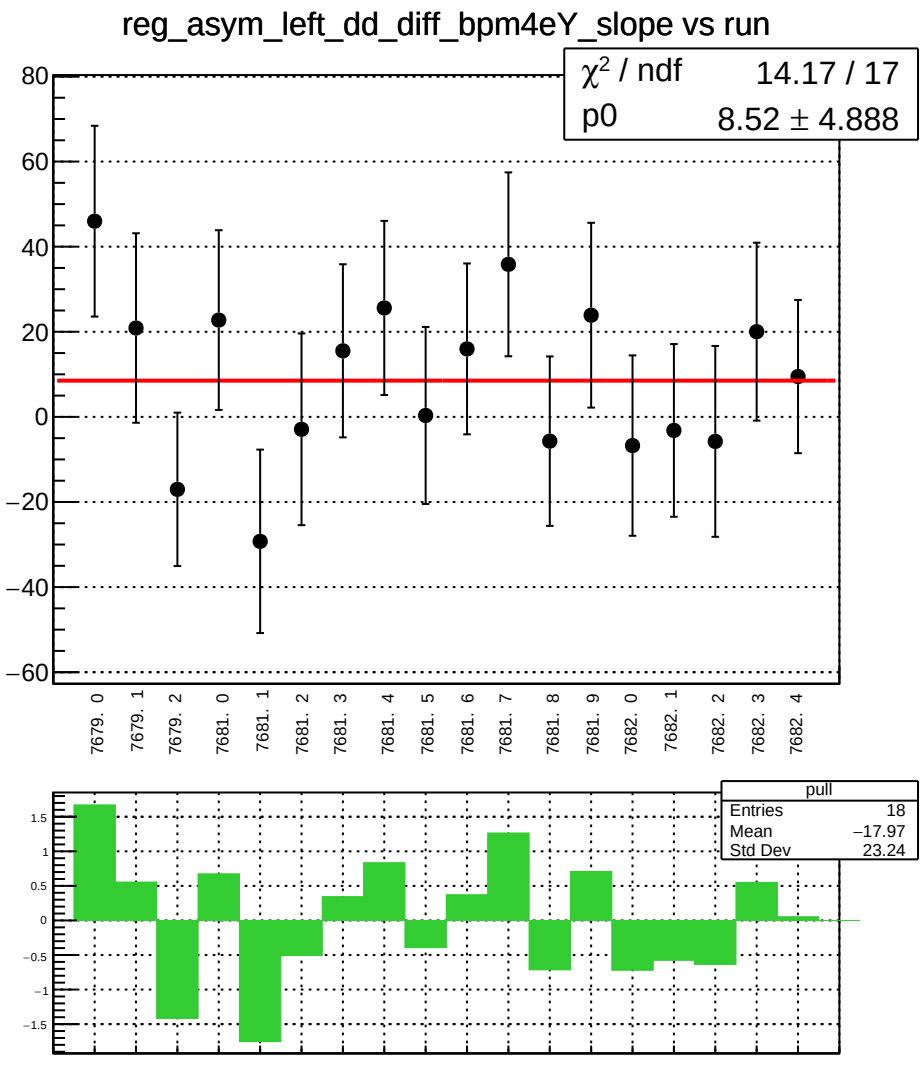

pull1D
Entries 18
Mean −0.002071
Std Dev 0.8427
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

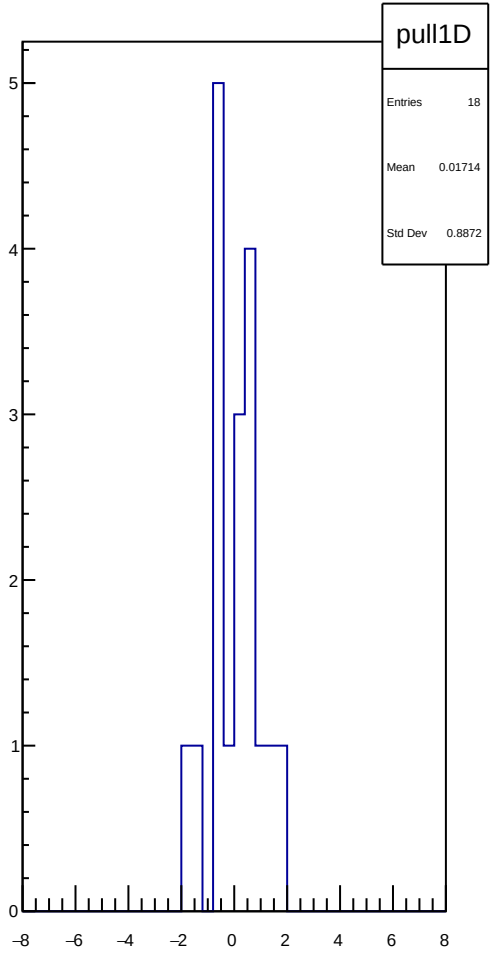

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 13.59 / 17
p0 −19.24 ± 0.2458
−17
−18
−19
−20
−21
−22
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −37.39
Std Dev 45.36
1
0.5
0
−0.5
−1
pull1D
Entries 18
Mean 0.02415
Std Dev 0.8684
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

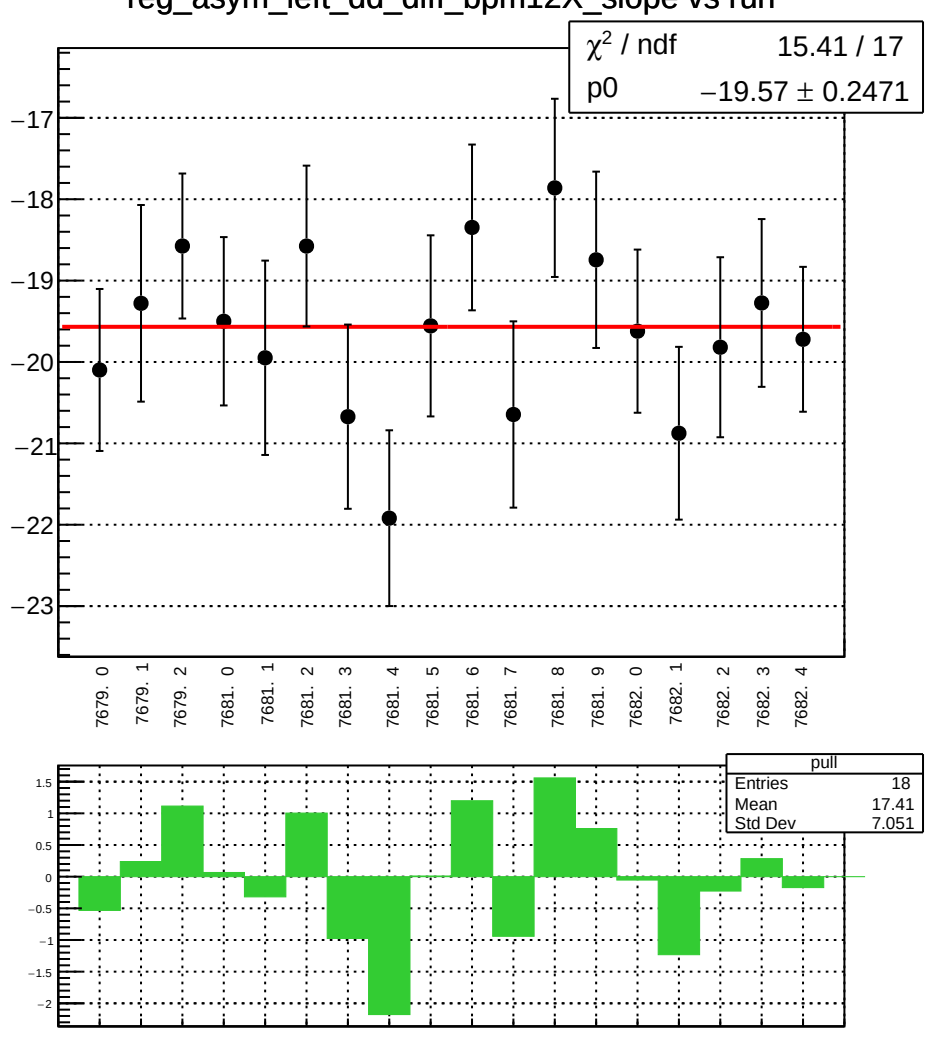

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 19.56 / 17
p0 −33.42 ± 1.982
0
−10
−20
−30
−40
−50
−60
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 257.4
Std Dev 260.2
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 18
Mean 0.00118
Std Dev 1.043
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

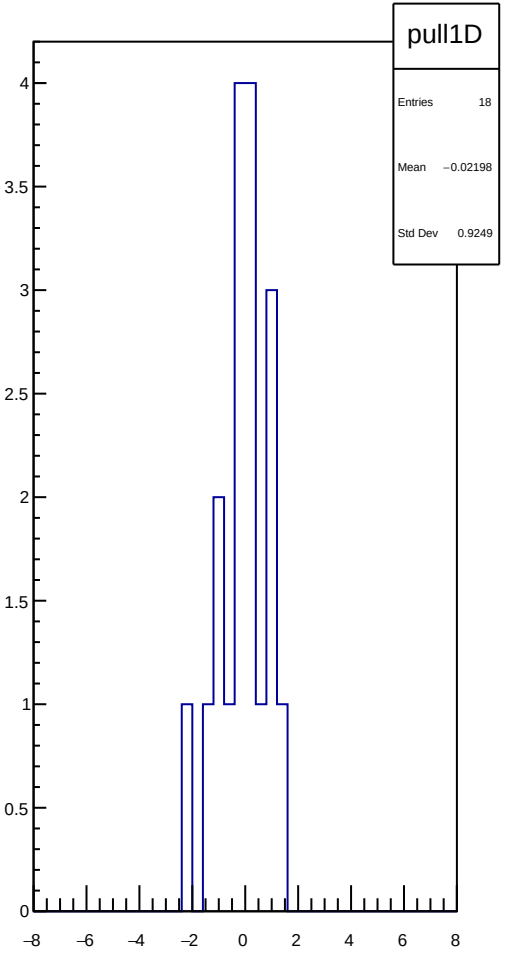

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 13.19 / 17
p0 2.624 ± 3.295
40
30
20
10
0
−10
−20
−30
−40
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −15.99
Std Dev 21.28
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 18
Mean −0.01991
Std Dev 0.8558
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

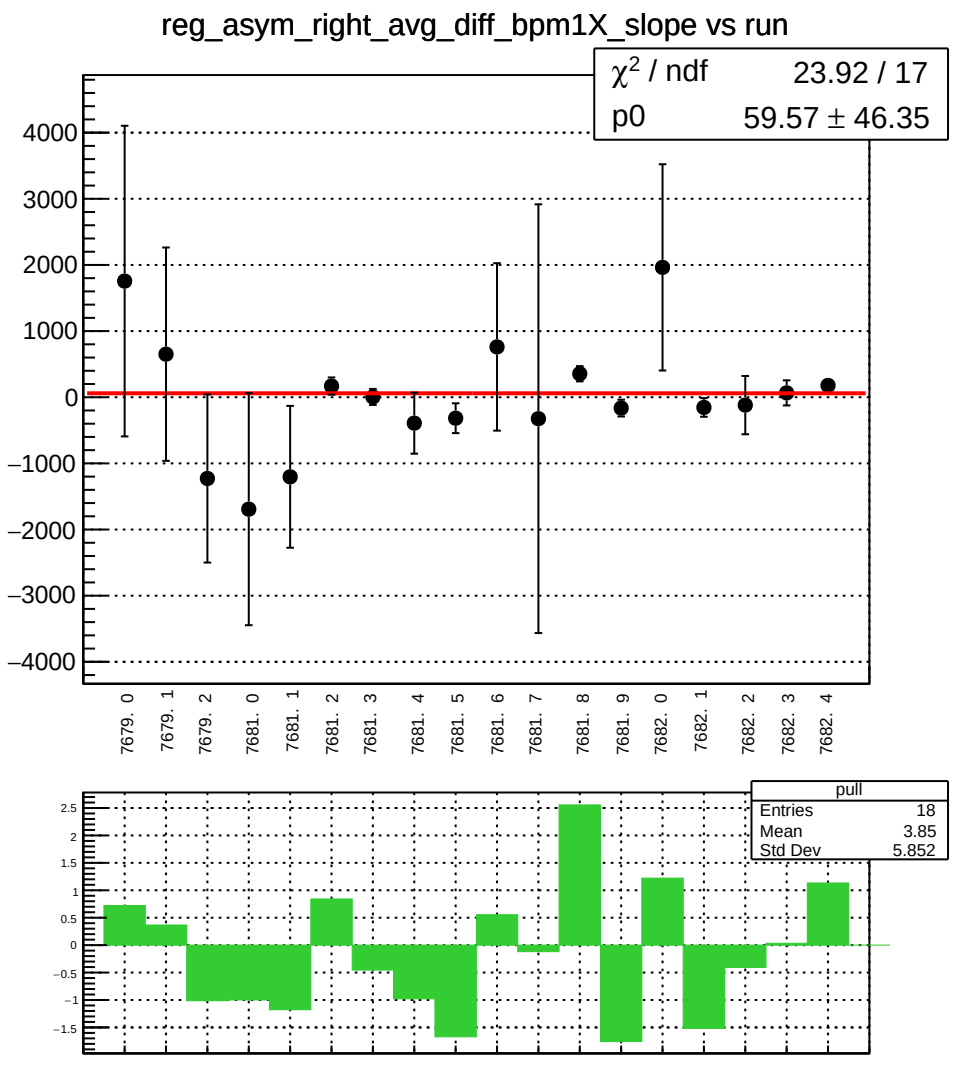

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 18.66 / 17
p0 2.147 ± 1.606
20
15
10
5
0
−5
−10
−15
−20
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −1.396e+05
Std Dev 1.396e+05
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 18
Mean 1.516e−06
Std Dev 1.018
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

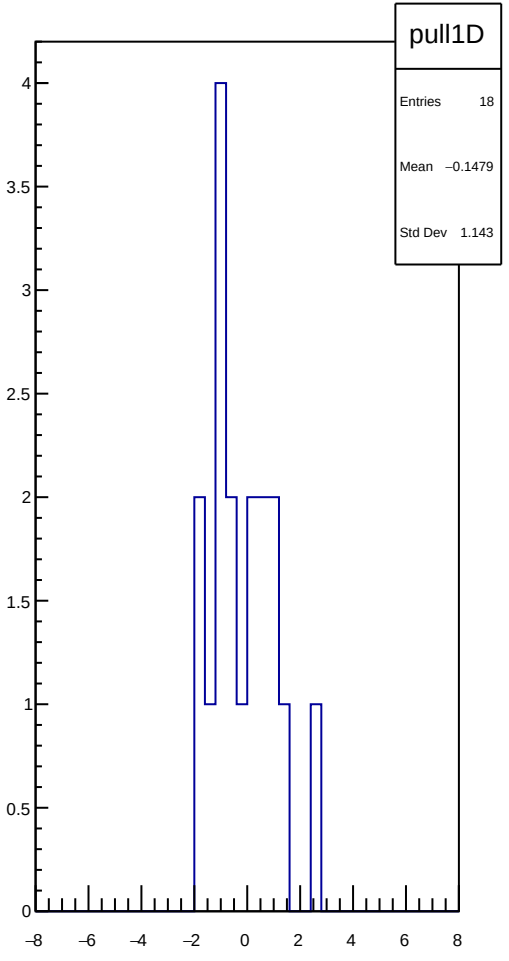

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 14.17 / 17
p0 8.52 ± 4.888
80
60
40
20
0
−20
−40
−60
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −17.97
Std Dev 23.24
1.5
1
0.5
0
−0.5
−1
−1.5

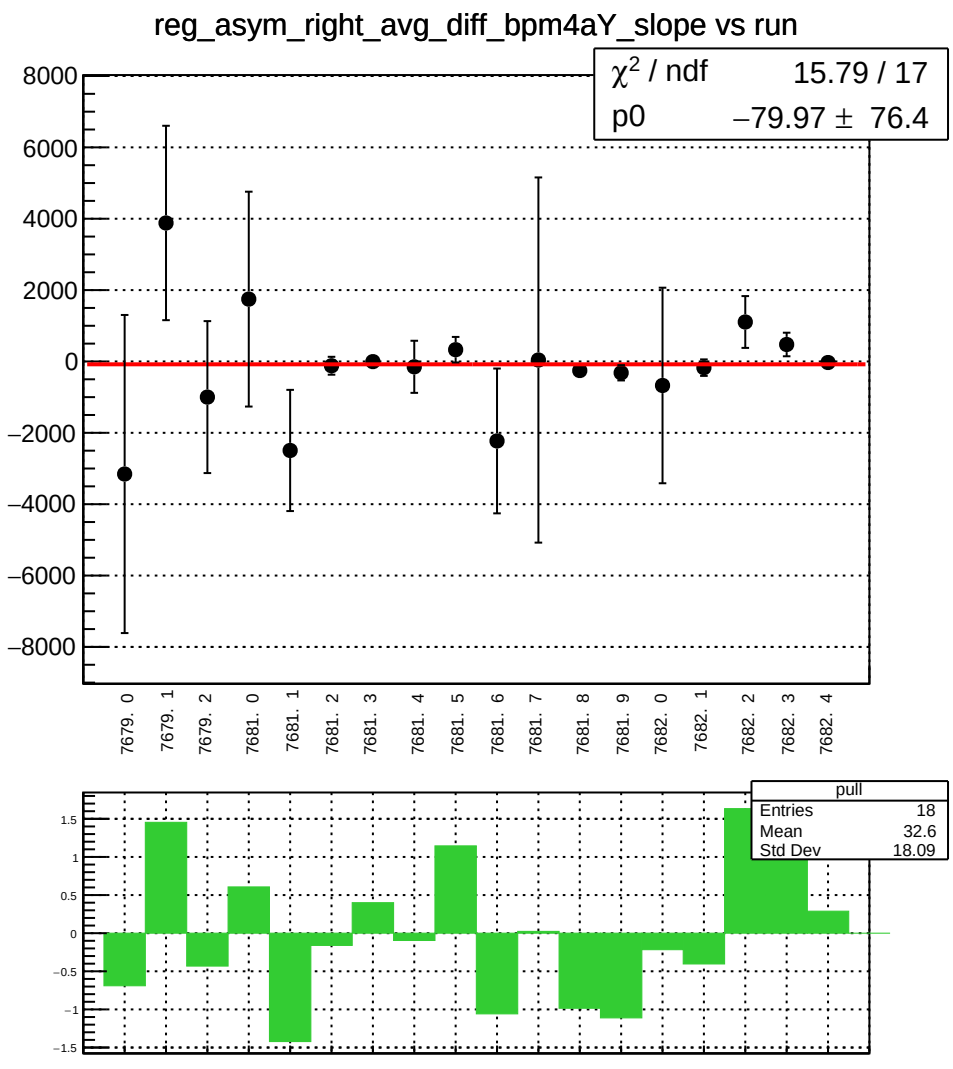

pull1D
Entries 18
Mean 0.01714
Std Dev 0.8872
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

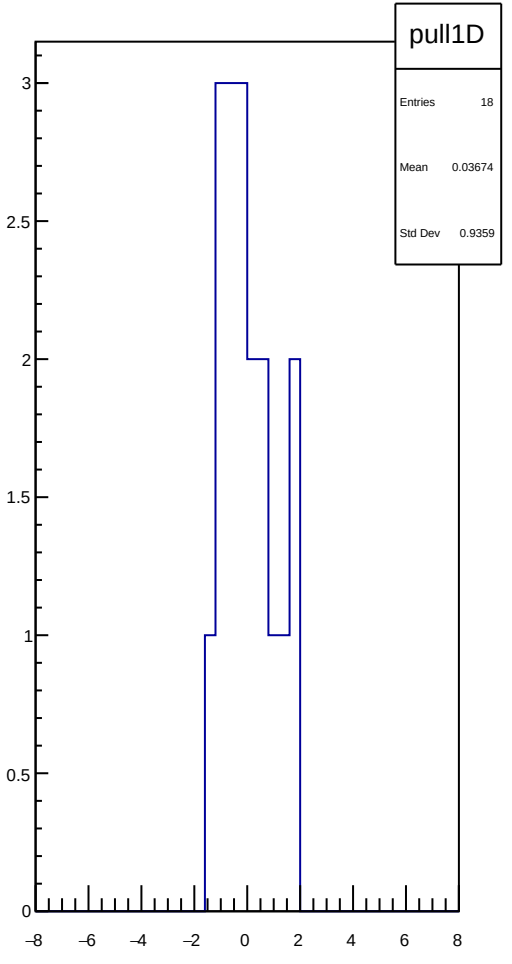

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 15.41 / 17
p0 −19.57 ± 0.2471
−17
−18
−19
−20
−21
−22
−23
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 17.41
Std Dev 7.051
1.5
1
0.5
0
−0.5
−1
−1.5
−2

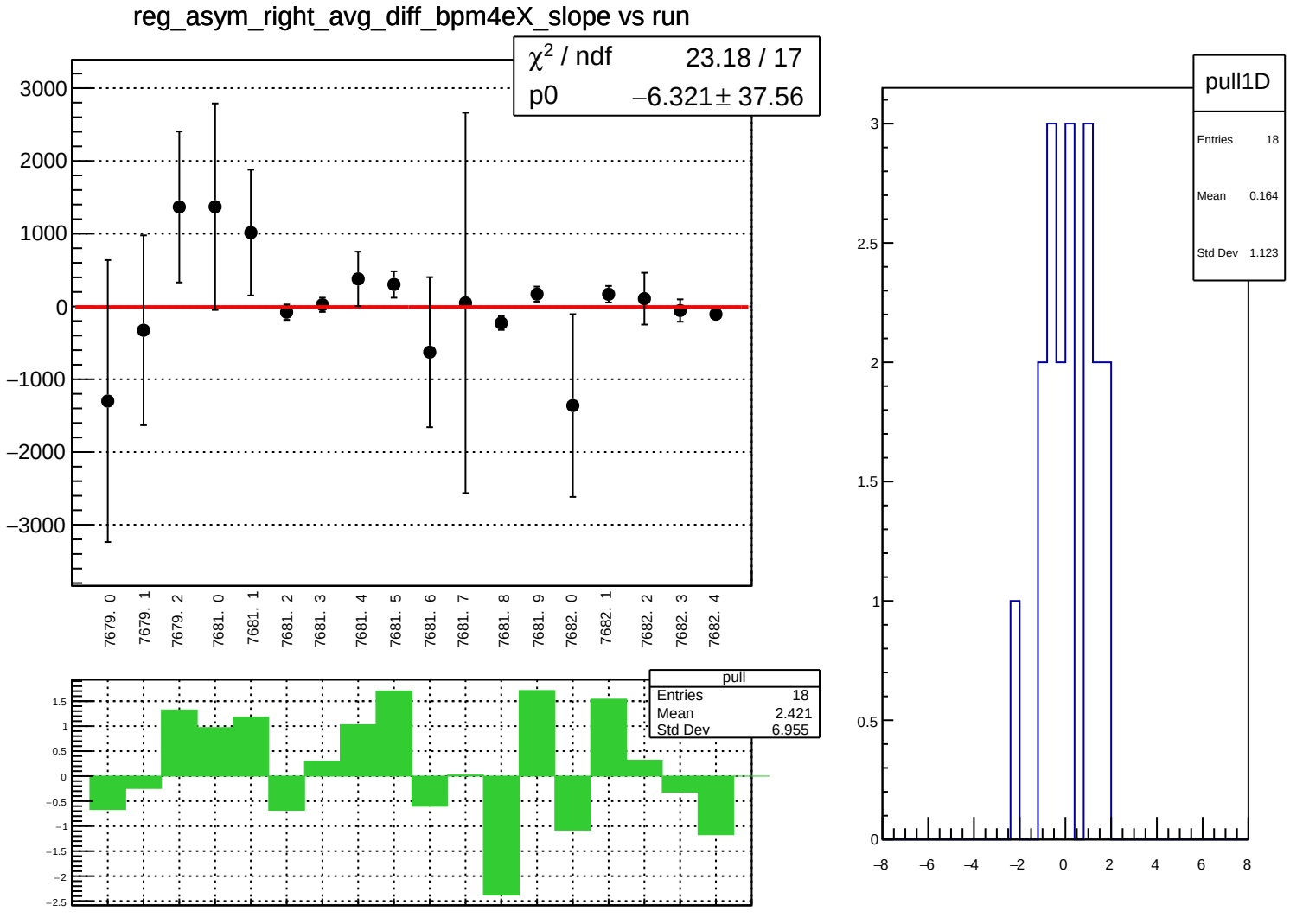

pull1D
Entries 18
Mean −0.02198
Std Dev 0.9249
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

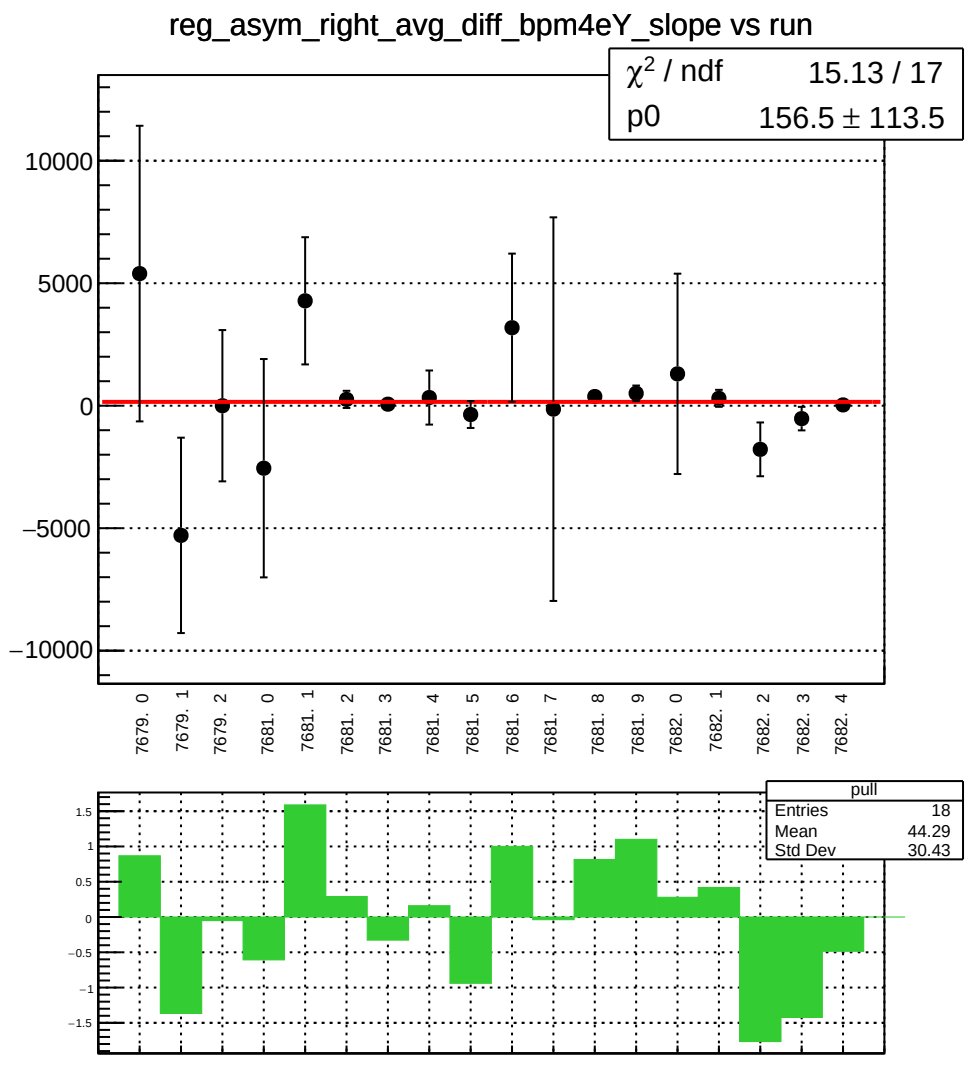

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 23.92 / 17
p0 59.57 ± 46.35
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 3.85
Std Dev 5.852
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

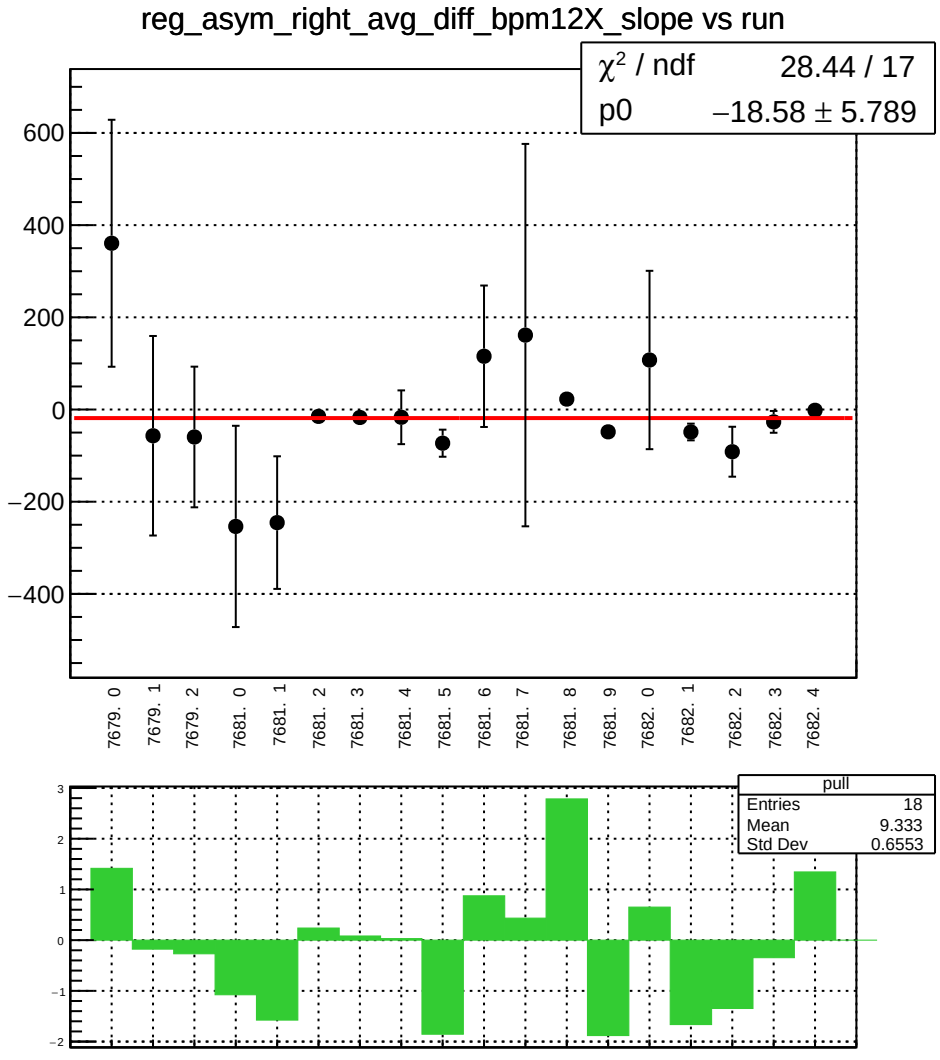

pull1D
Entries 18
Mean −0.1479
Std Dev 1.143
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

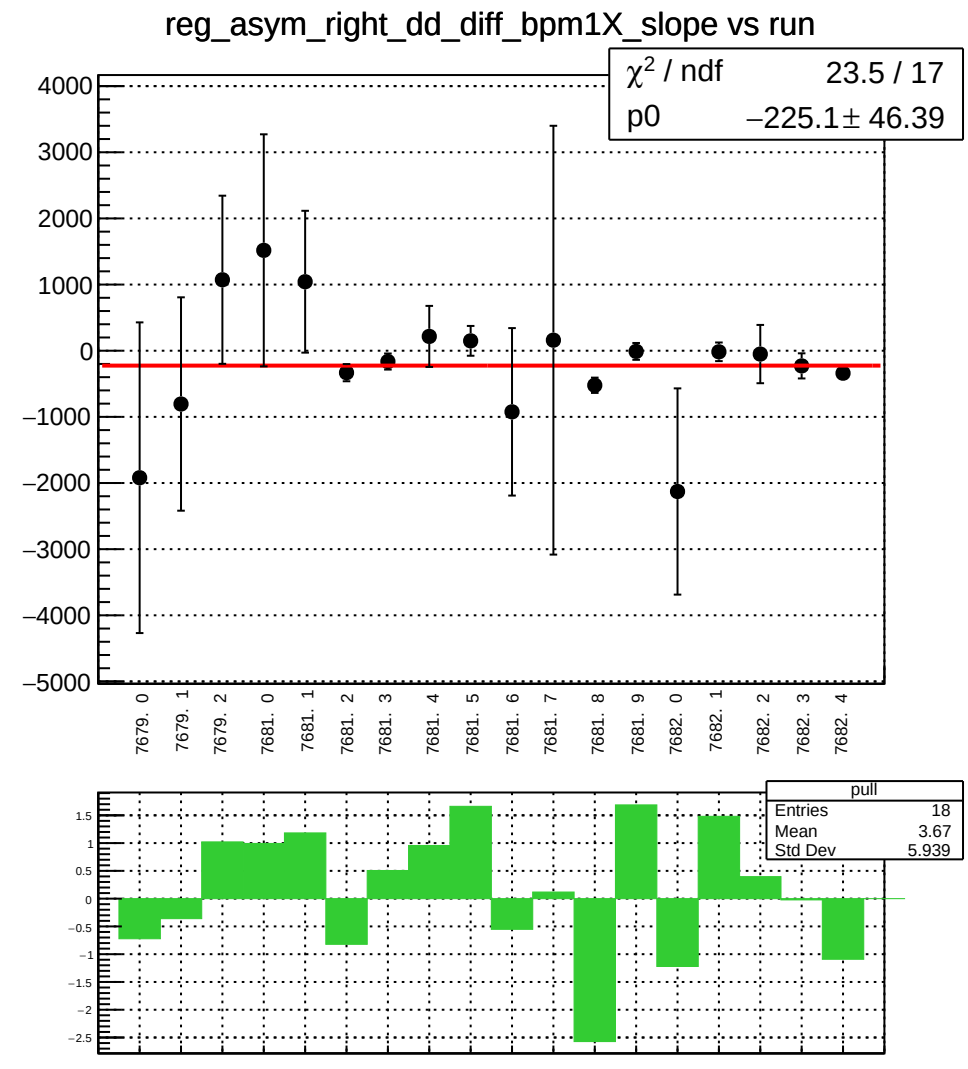

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 15.79 / 17
p0 −79.97 ± 76.4
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 32.6
Std Dev 18.09
1.5
1
0.5
0
−0.5
−1
−1.5

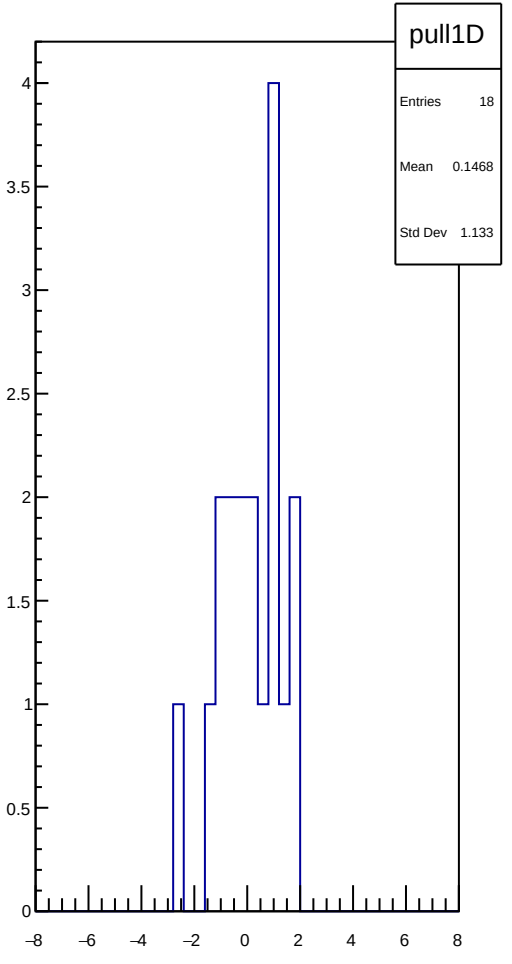

pull1D
Entries 18
Mean 0.03674
Std Dev 0.9359
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

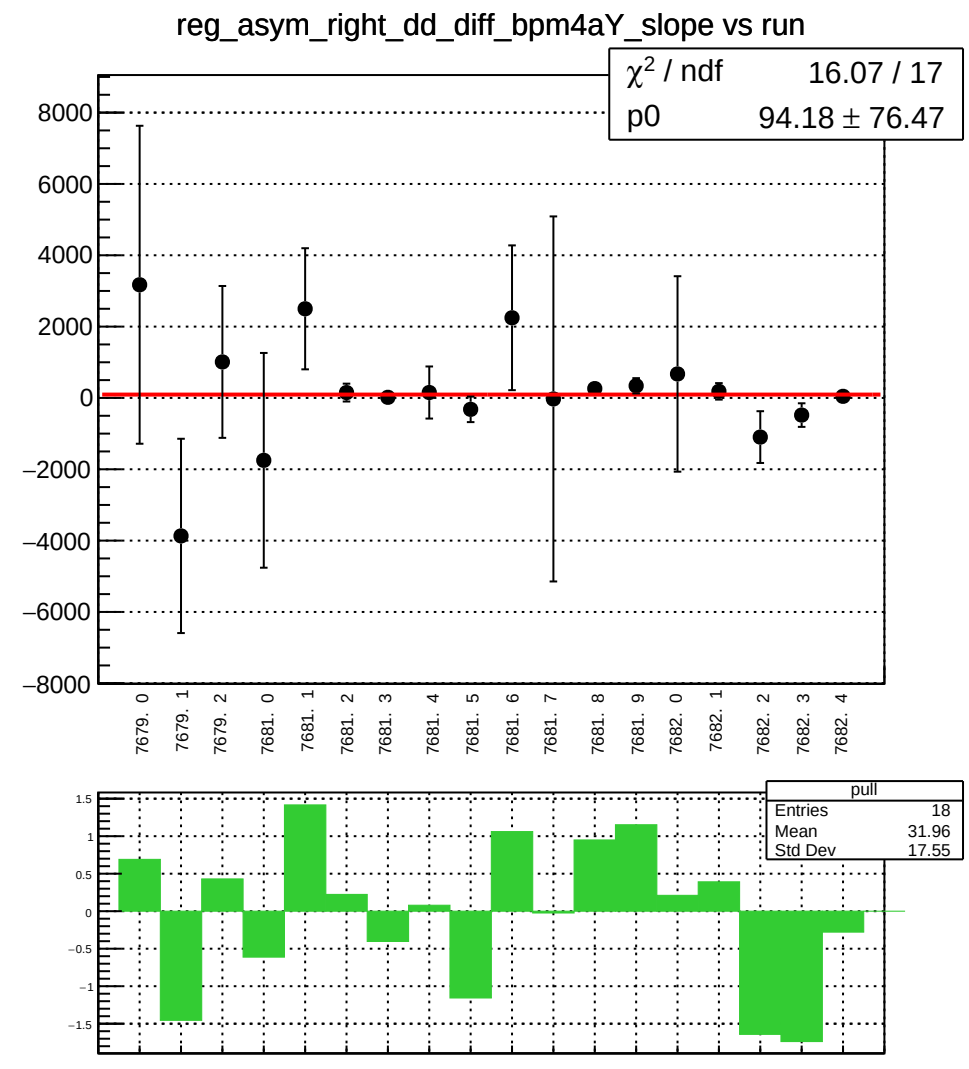

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 23.18 / 17
p0 −6.321 ± 37.56
3000
2000
1000
0
−1000
−2000
−3000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 2.421
Std Dev 6.955
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 18
Mean 0.164
Std Dev 1.123
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

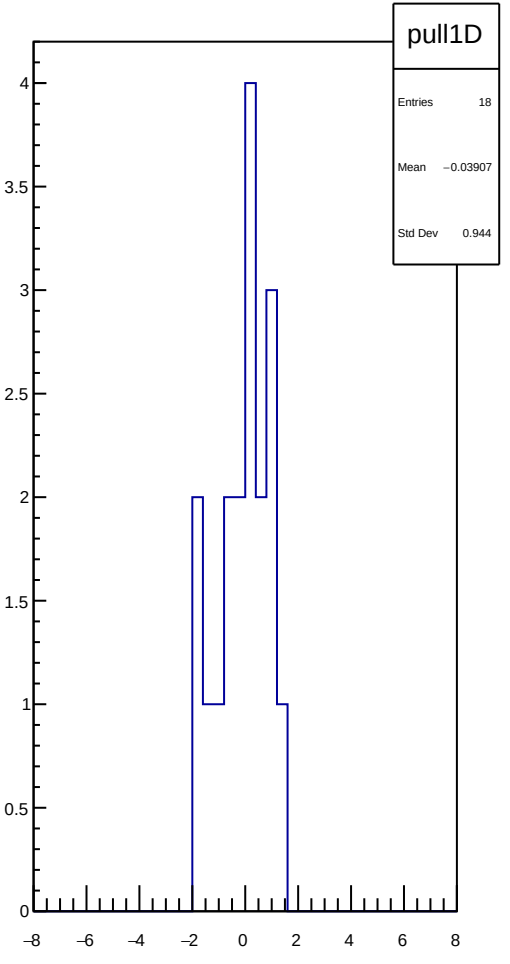

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 15.13 / 17
p0 156.5 ± 113.5
10000
5000
0
−5000
−10000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 44.29
Std Dev 30.43
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 18
Mean −0.02671
Std Dev 0.9164
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

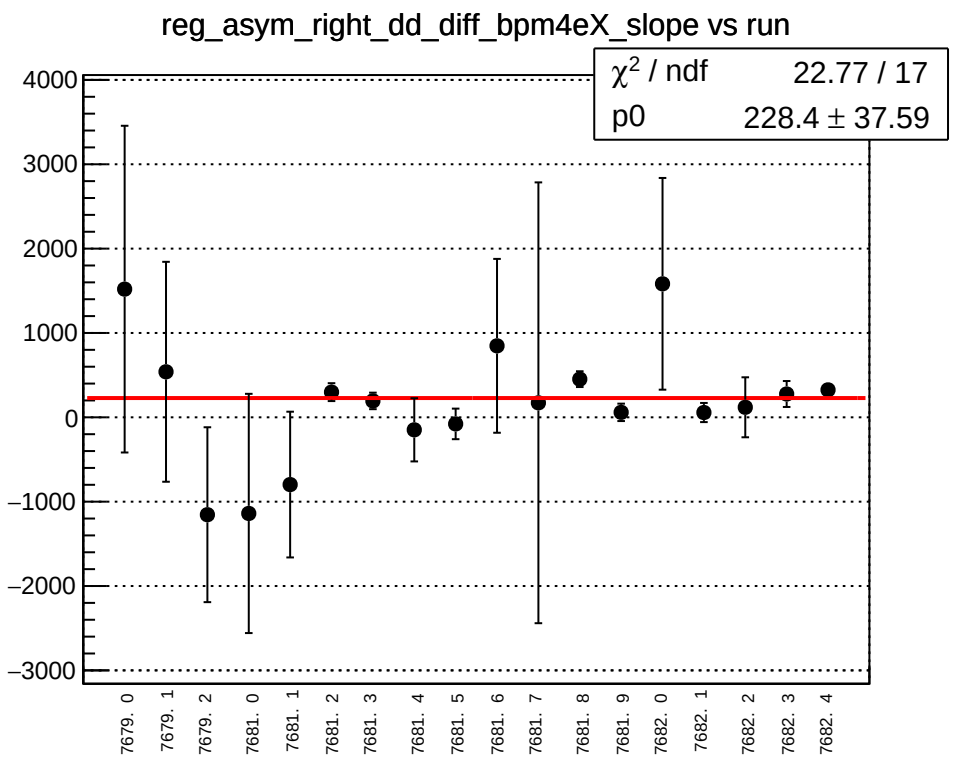

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 28.44 / 17
p0 −18.58 ± 5.789
600
400
200
0
−200
−400
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 9.333
Std Dev 0.6553
3
2
1
0
−1
−2
pull1D
Entries 18
Mean −0.1298
Std Dev 1.25
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

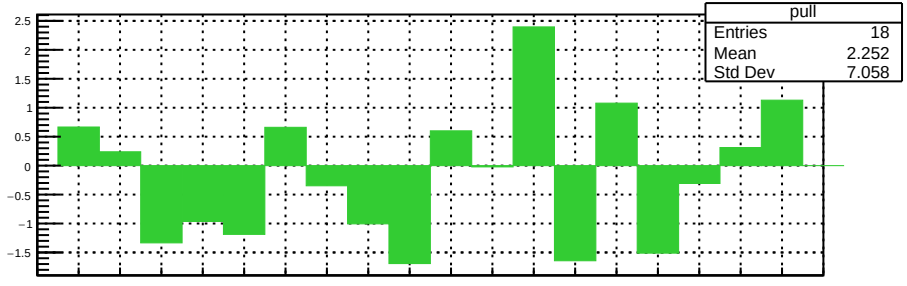

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 23.5 / 17
p0 −225.1± 46.39
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 3.67
Std Dev 5.939
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

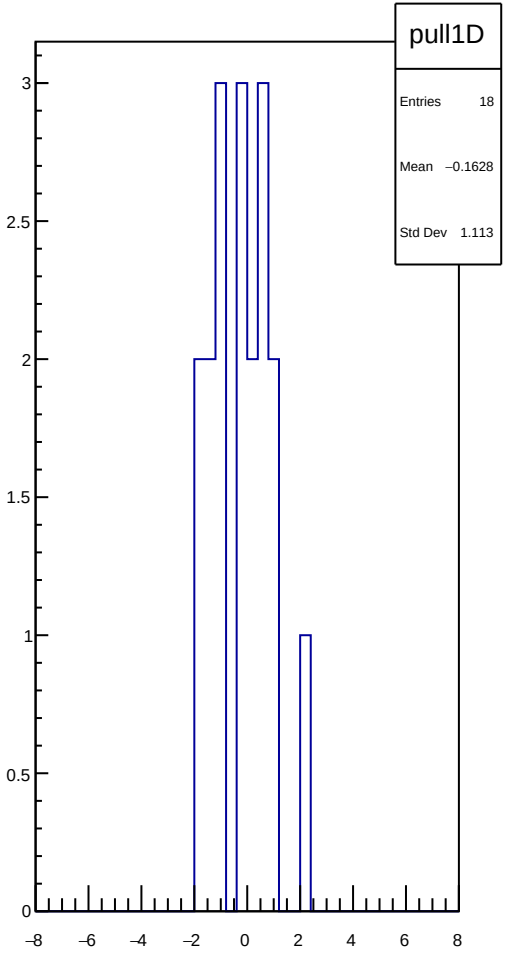

pull1D
Entries 18
Mean 0.1468
Std Dev 1.133
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

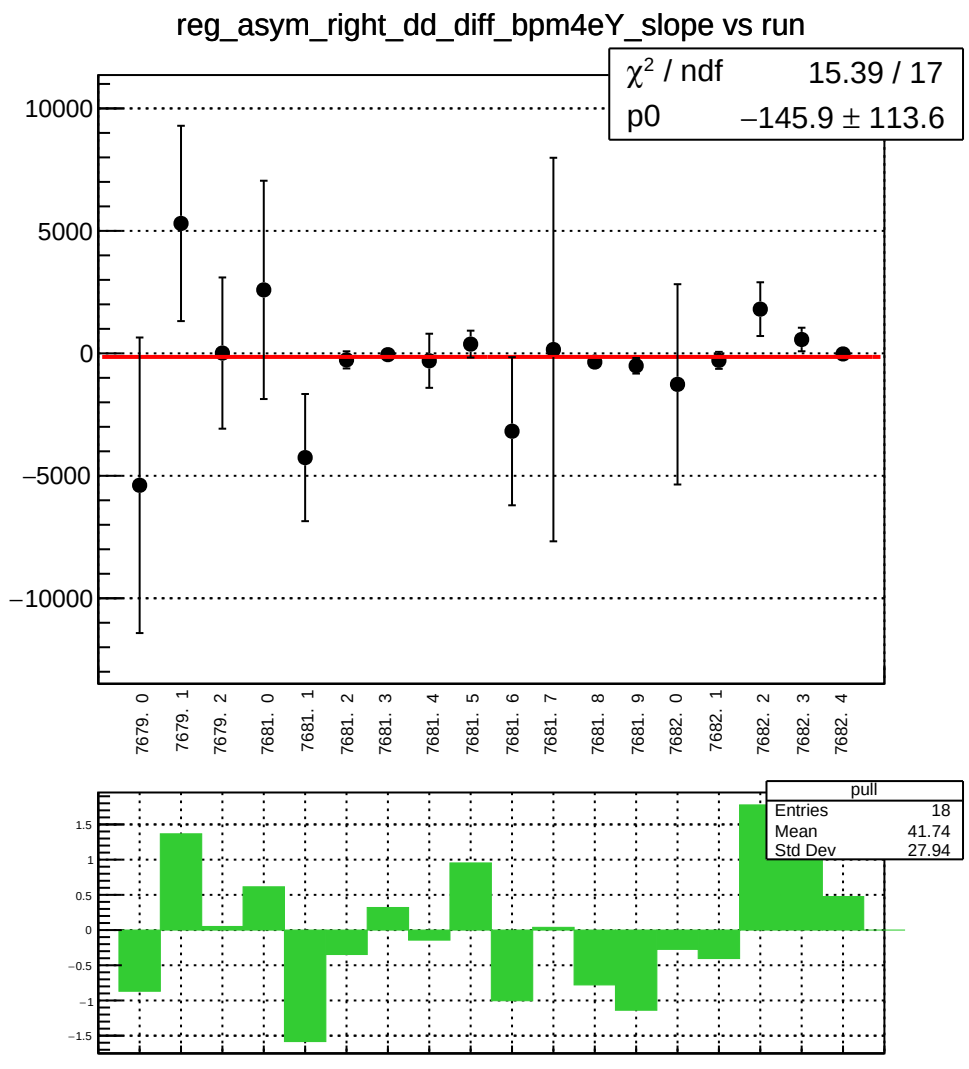

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 16.07 / 17
p0 94.18 ± 76.47
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 31.96
Std Dev 17.55
1.5
1
0.5
0
−0.5
−1
−1.5

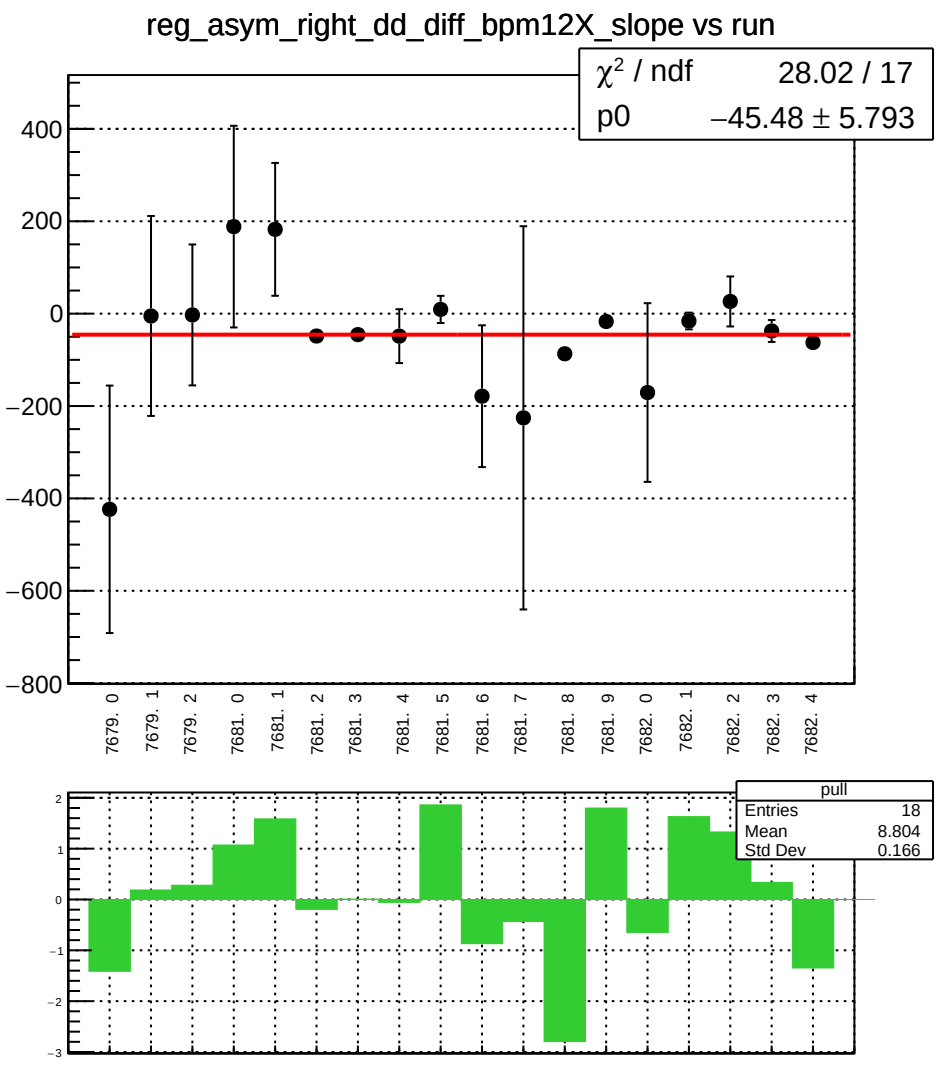

pull1D
Entries 18
Mean −0.03907
Std Dev 0.944
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

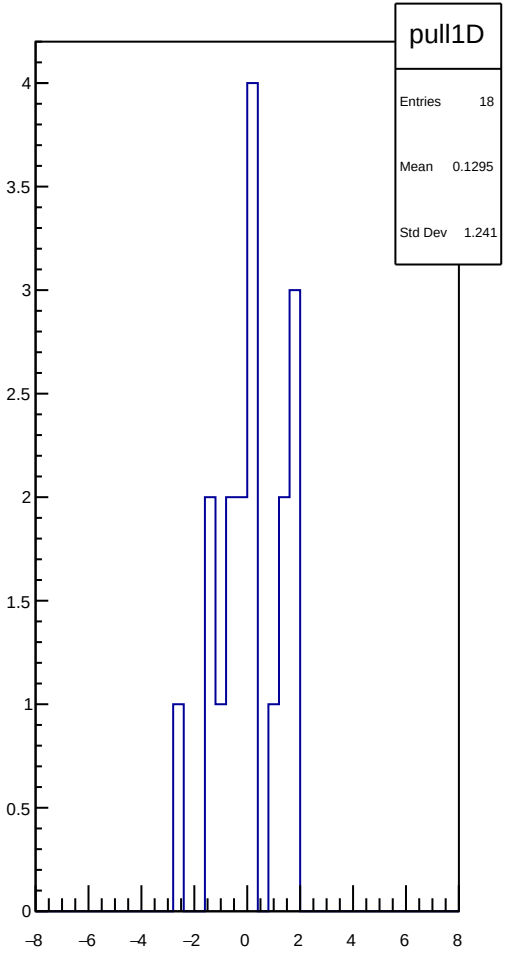

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 22.77 / 17
p0 228.4 ± 37.59
4000
3000
2000
1000
0
−1000
−2000
−3000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

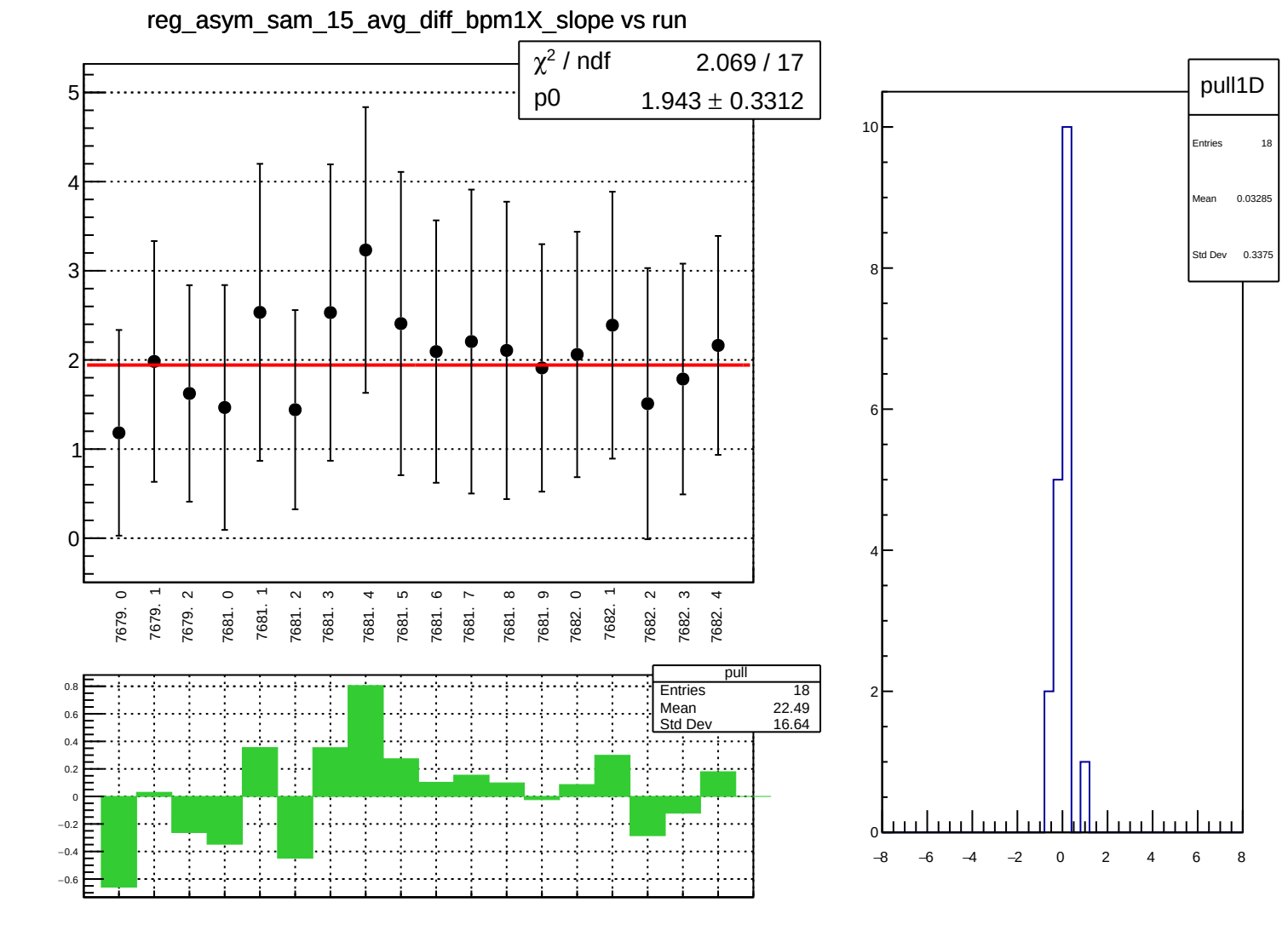

pull
Entries 18
Mean 2.252
Std Dev 7.058
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

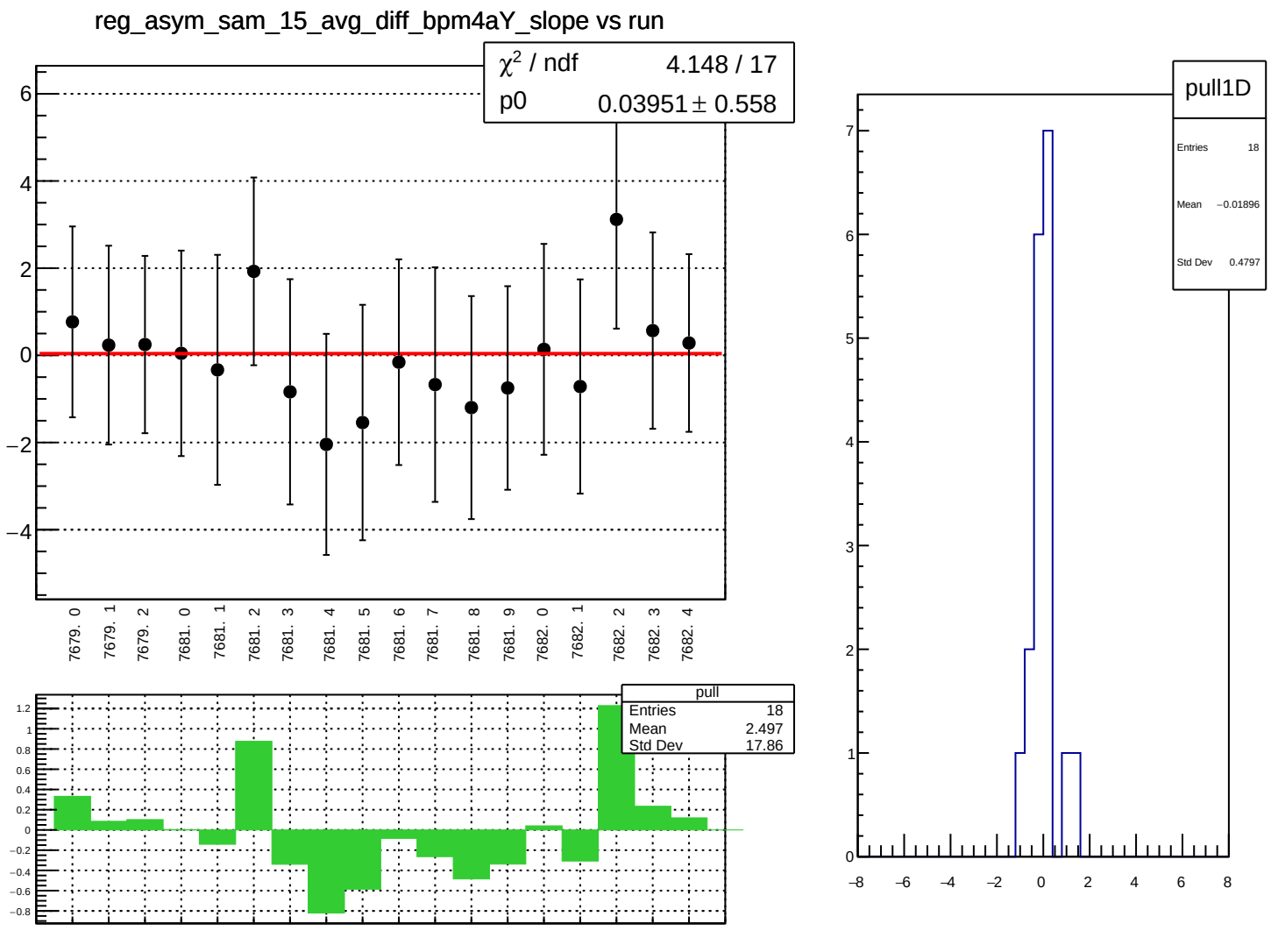

pull1D
Entries 18
Mean −0.1628
Std Dev 1.113
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

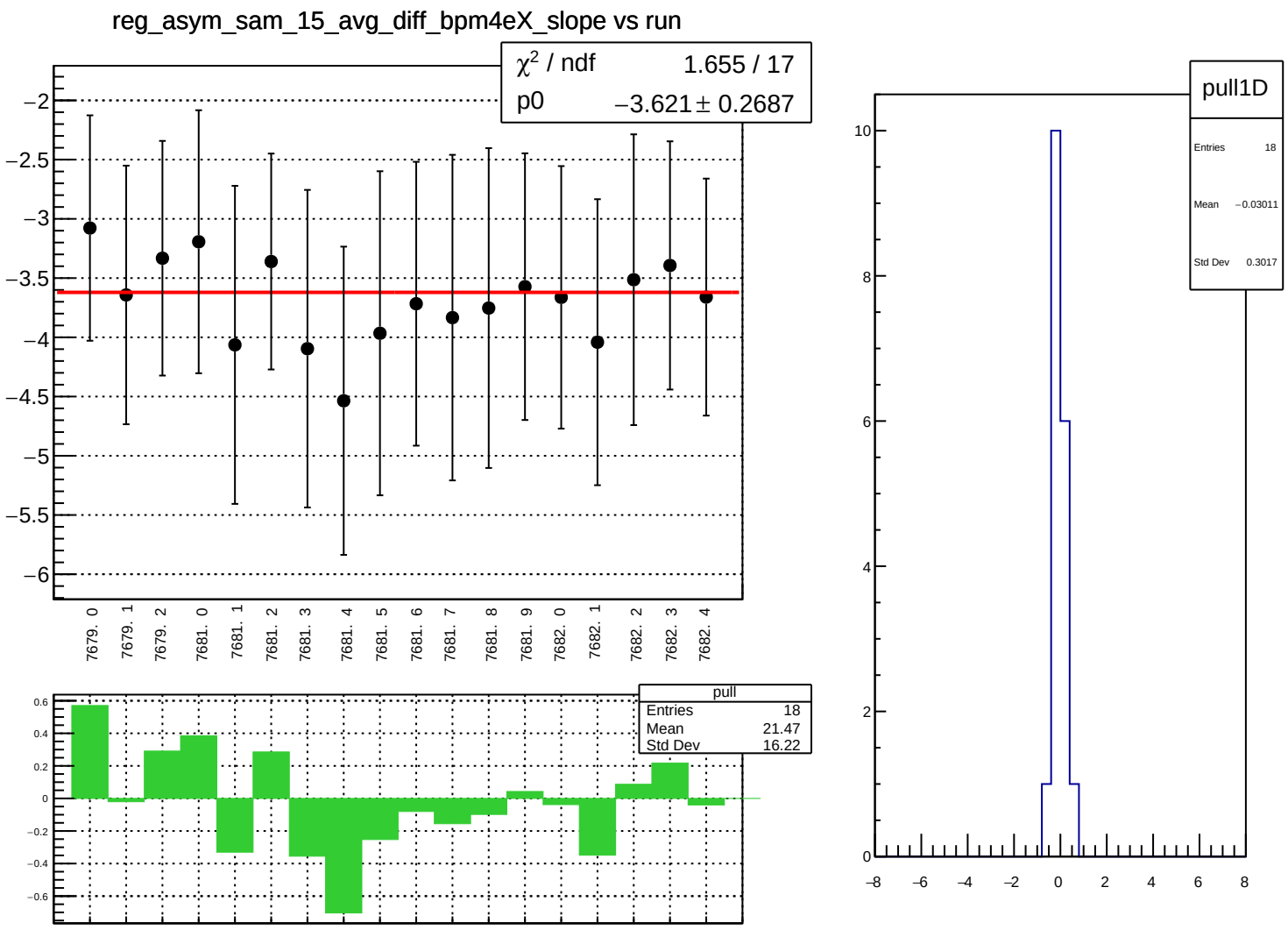

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 15.39 / 17
p0 −145.9 ± 113.6
10000
5000
0
−5000
−10000
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 41.74
Std Dev 27.94
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 18
Mean 0.02981
Std Dev 0.9241
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

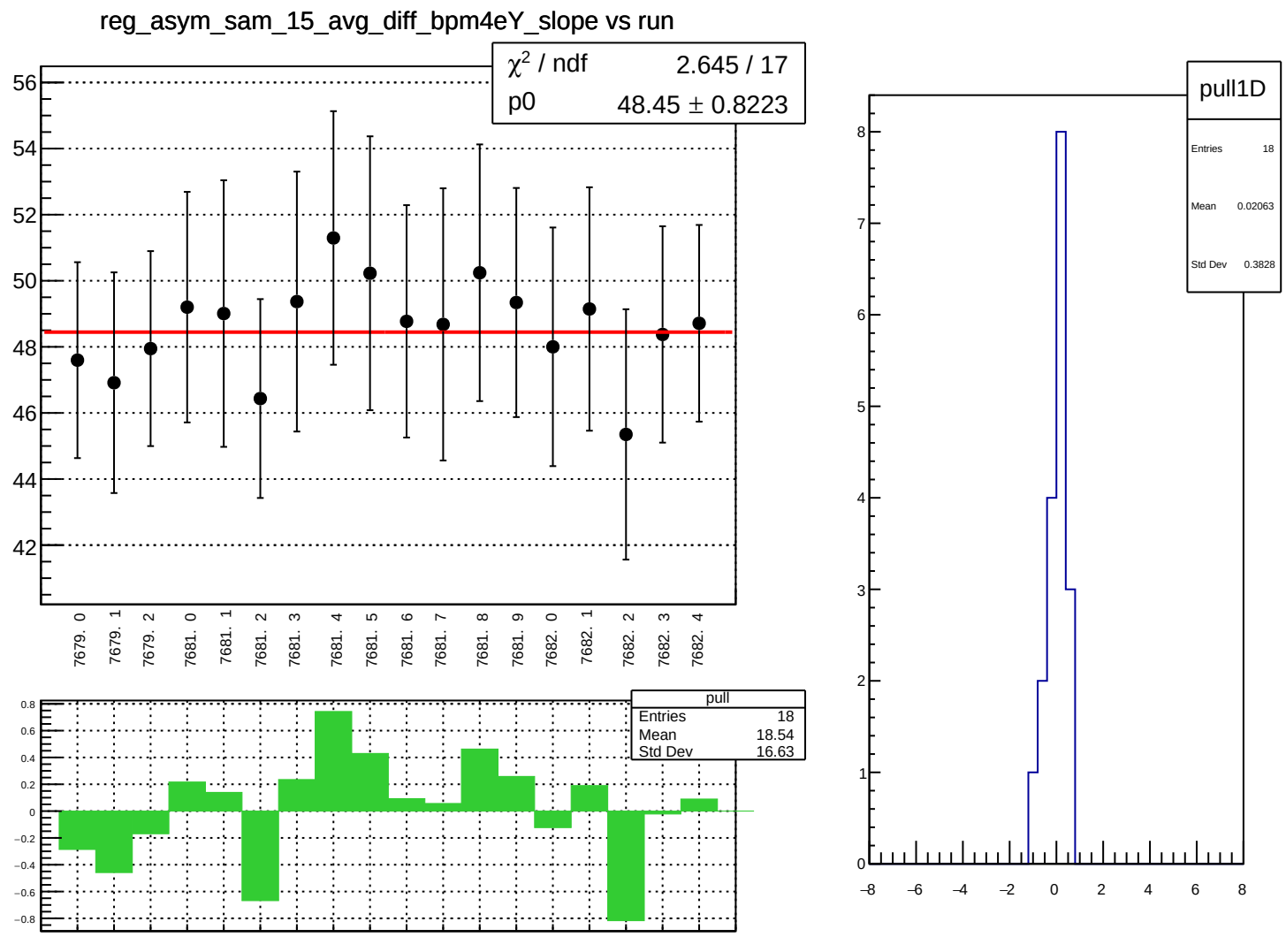

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 28.02 / 17
p0 −45.48 ± 5.793
400
200
0
−200
−400
−600
−800
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 8.804
Std Dev 0.166
2
1
0
−1
−2
−3

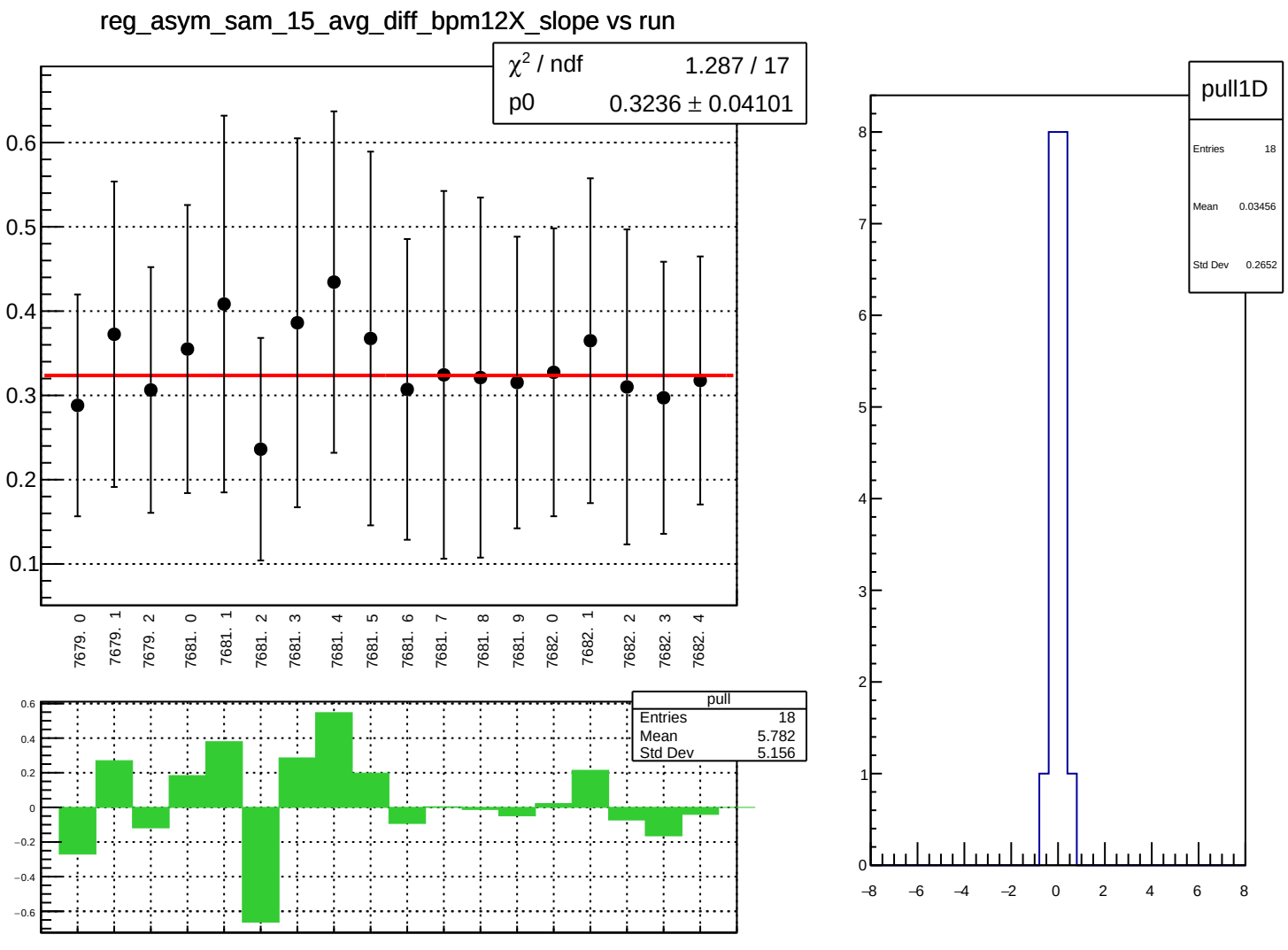

pull1D
Entries 18
Mean 0.1295
Std Dev 1.241
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

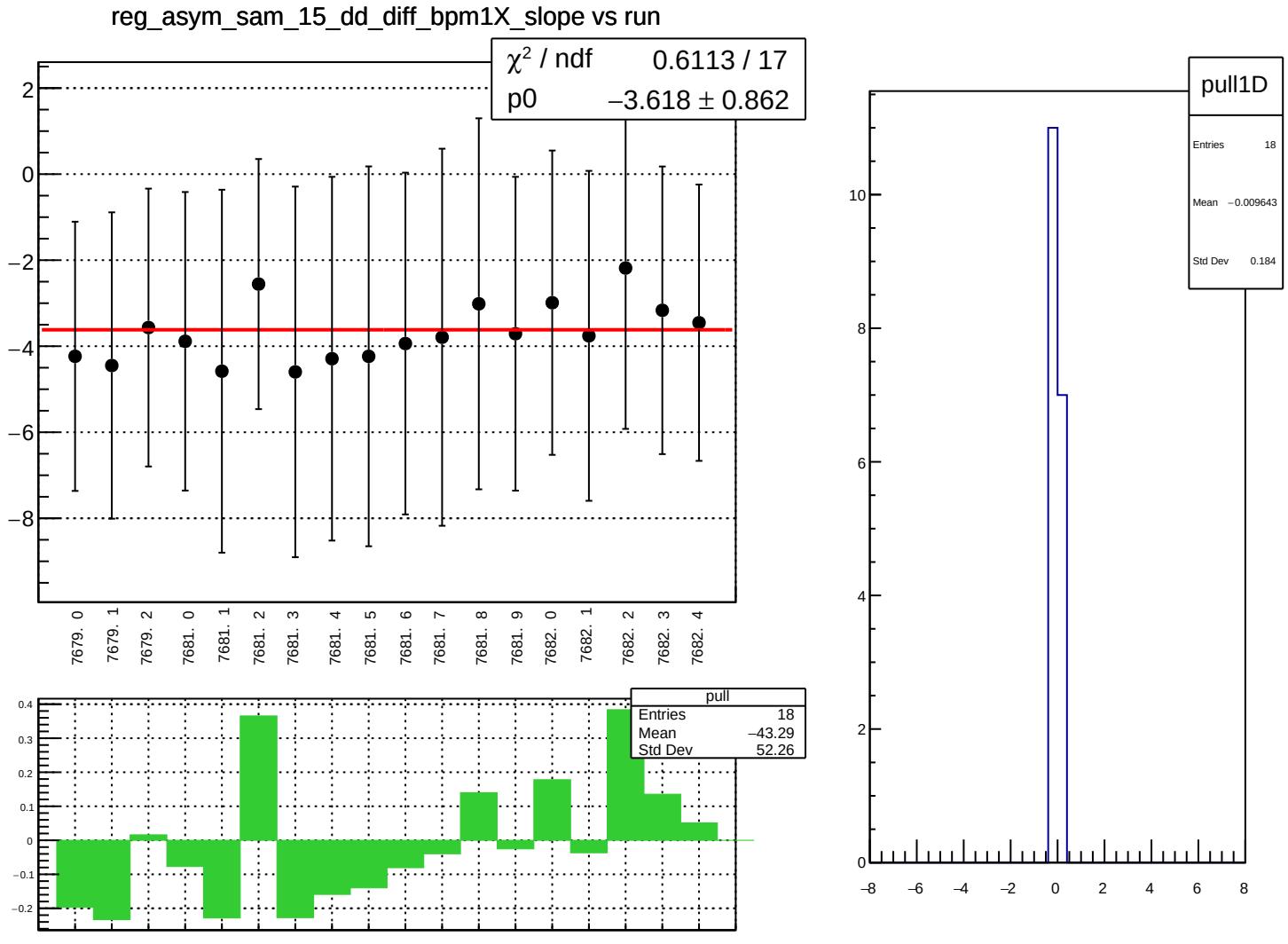

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 2.069 / 17
p0 1.943 ± 0.3312
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 22.49
Std Dev 16.64
pull1D
Entries 18
Mean 0.03285
Std Dev 0.3375

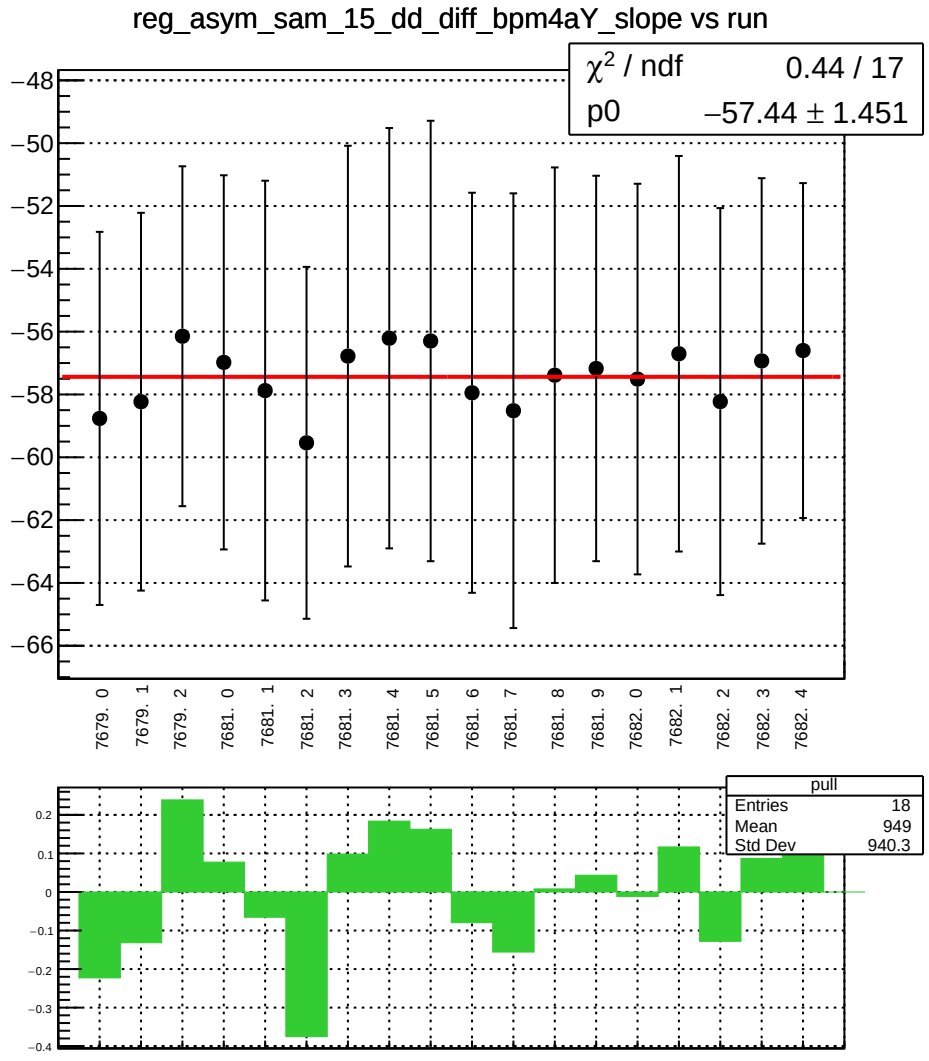

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.148 / 17
p0 0.03951 ± 0.558
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 2.497
Std Dev 17.86
pull1D
Entries 18
Mean −0.01896
Std Dev 0.4797

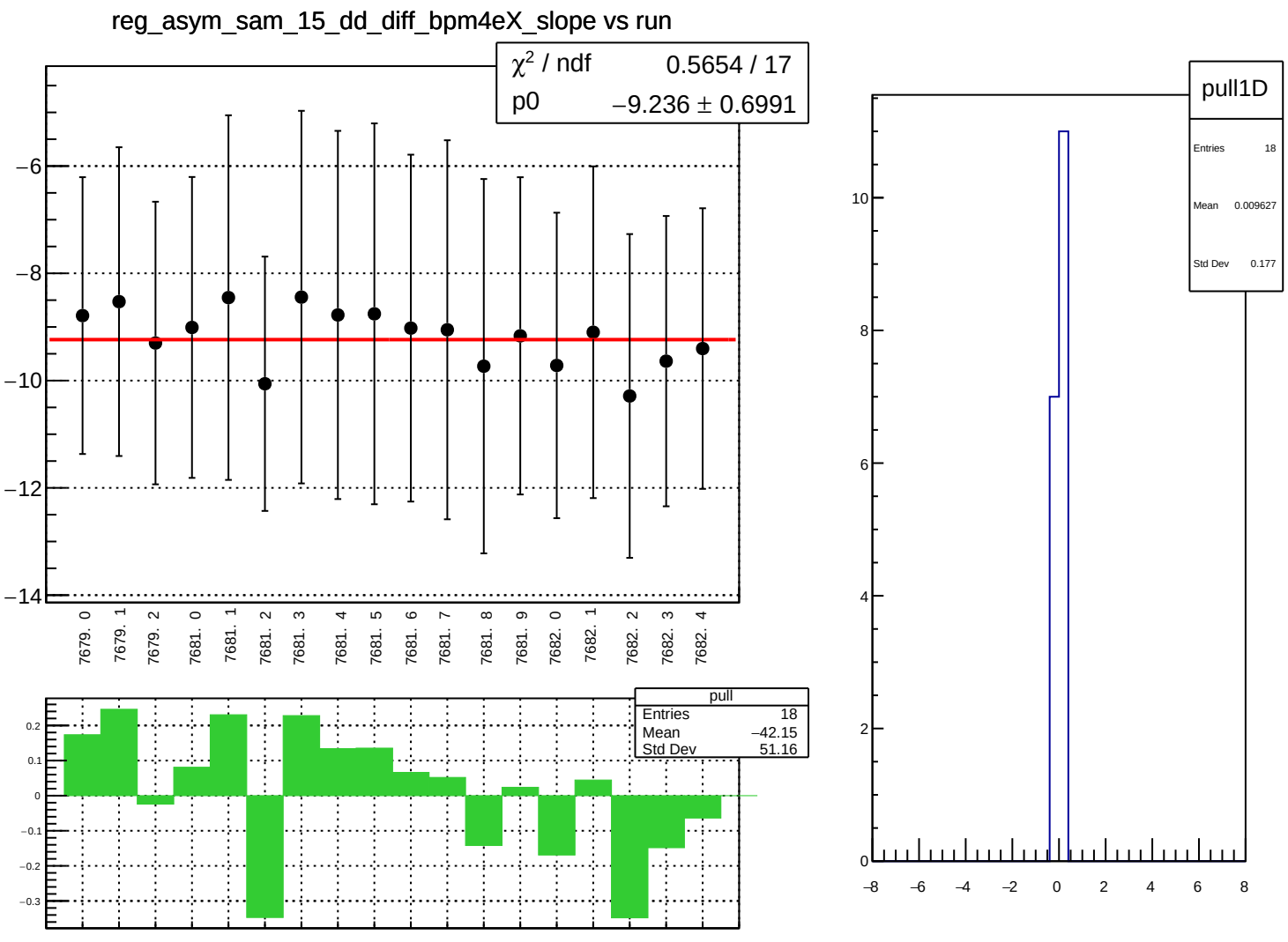

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.655 / 17
p0 −3.621 ± 0.2687
−2
−2.5
−3
−3.5
−4
−4.5
−5
−5.5
−6
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 21.47
Std Dev 16.22
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 18
Mean −0.03011
Std Dev 0.3017
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

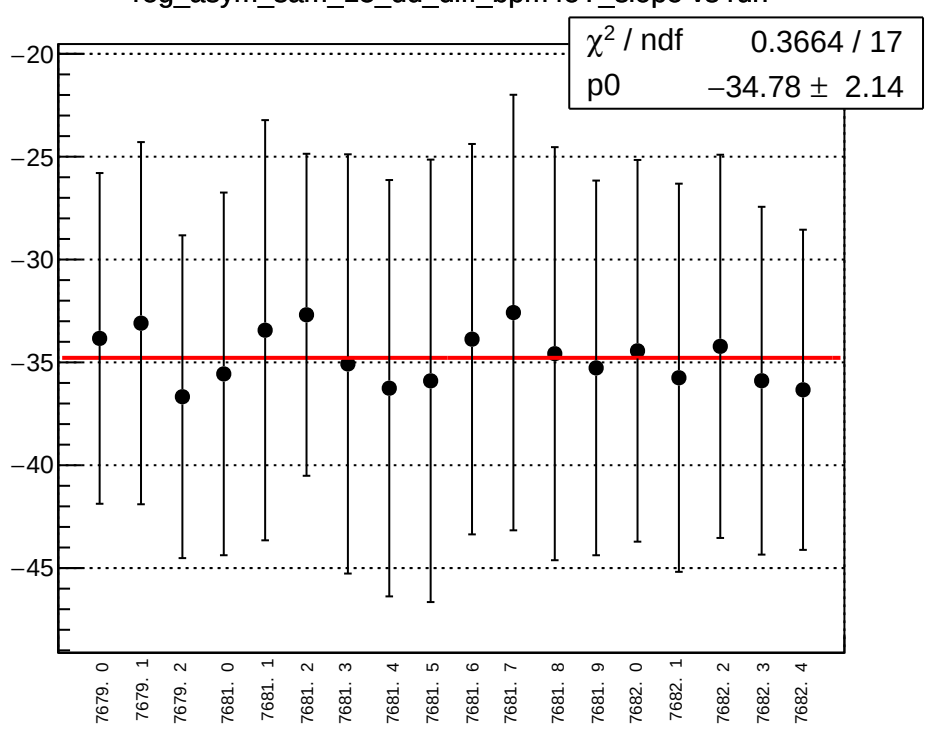

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.645 / 17
p0 48.45 ± 0.8223
56
54
52
50
48
46
44
42
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 18.54
Std Dev 16.63
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 18
Mean 0.02063
Std Dev 0.3828
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

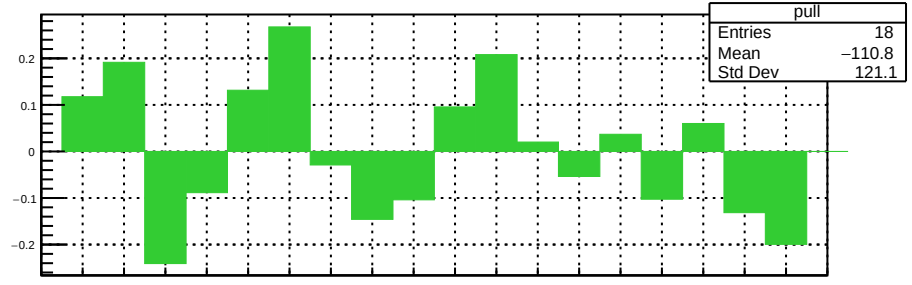

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 1.287 / 17
p0 0.3236 ± 0.04101
0.6
0.5
0.4
0.3
0.2
0.1
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 5.782
Std Dev 5.156
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 18
Mean 0.03456
Std Dev 0.2652
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

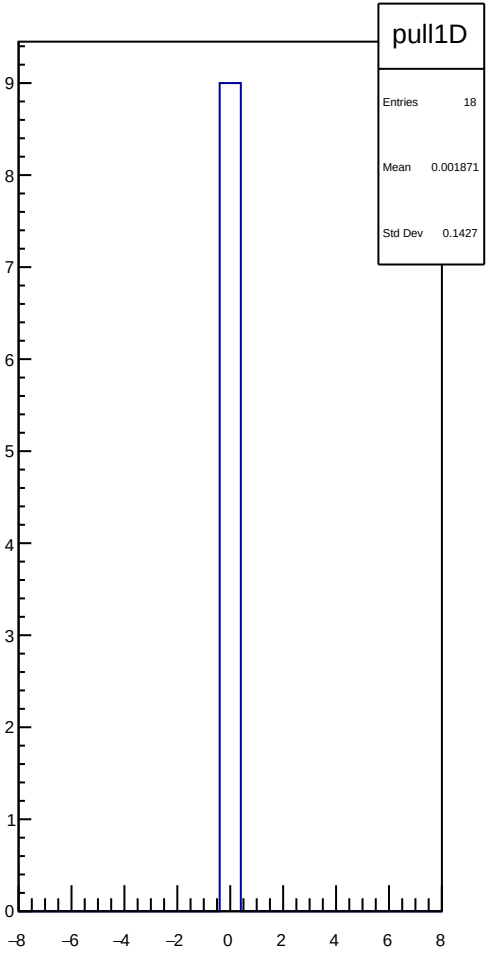

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 0.6113 / 17
p0 −3.618 ± 0.862
2
0
−2
−4
−6
−8
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −43.29
Std Dev 52.26
0.4
0.3
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 18
Mean −0.009643
Std Dev 0.184
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

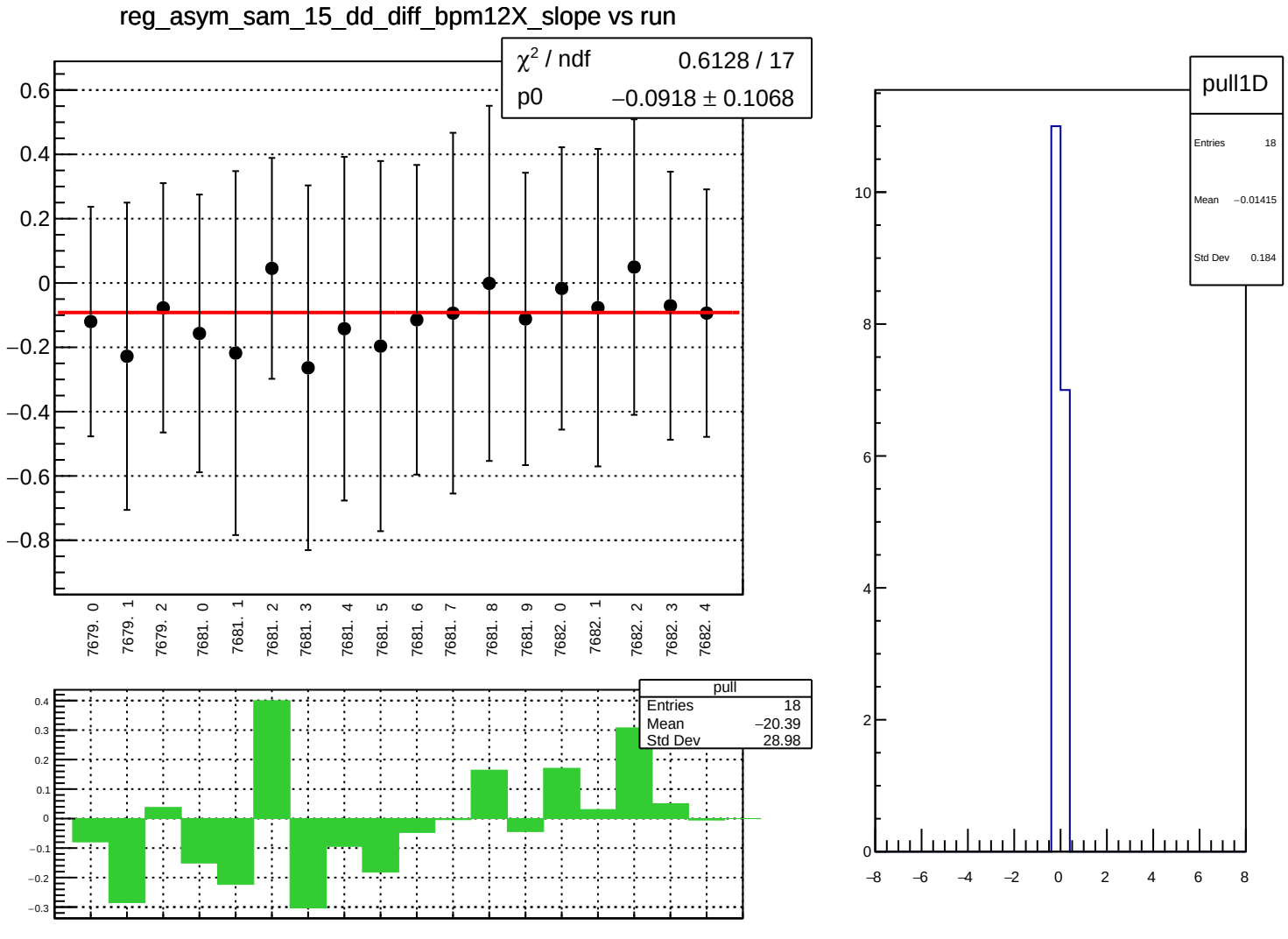

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.44 / 17
p0 −57.44 ± 1.451
−48
−50
−52
−54
−56
−58
−60
−62
−64
−66
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 949
Std Dev 940.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 18
Mean 0.00021
Std Dev 0.1563
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

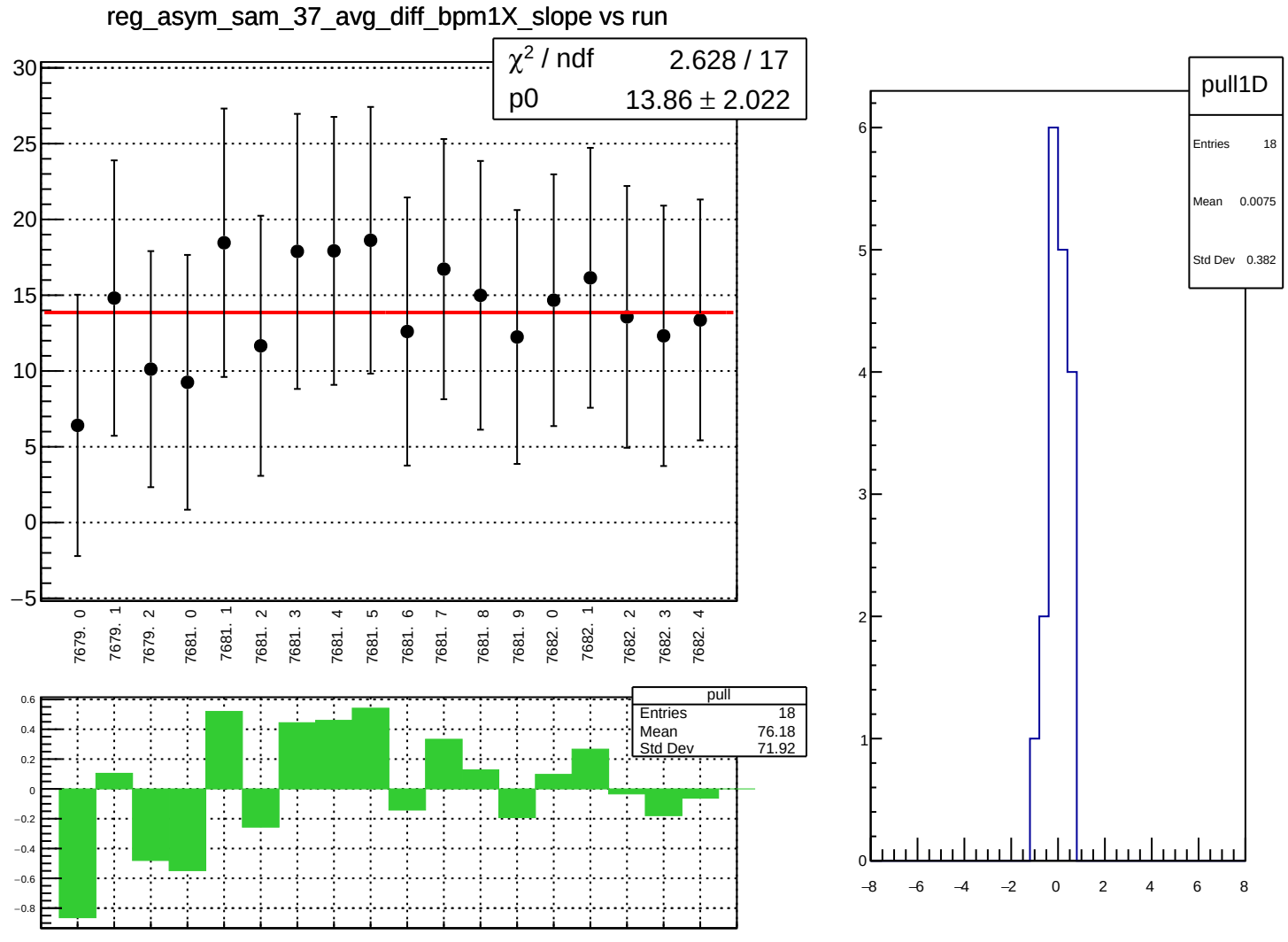

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.5654 / 17
p0 −9.236 ± 0.6991
−6
−8
−10
−12
−14
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −42.15
Std Dev 51.16
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 18
Mean 0.009627
Std Dev 0.177
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

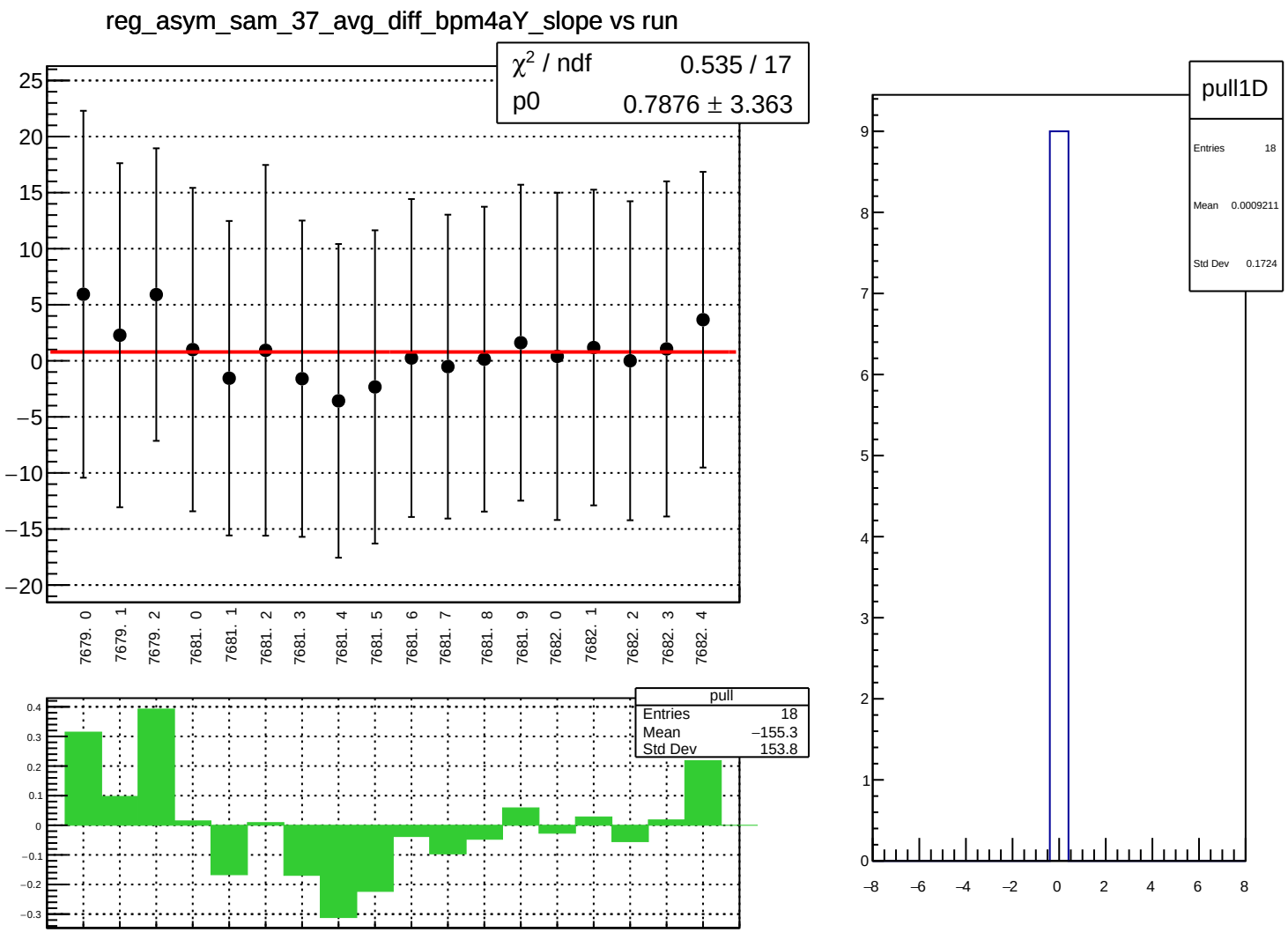

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.3664 / 17
p0 −34.78 ± 2.14
−20
−25
−30
−35
−40
−45
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

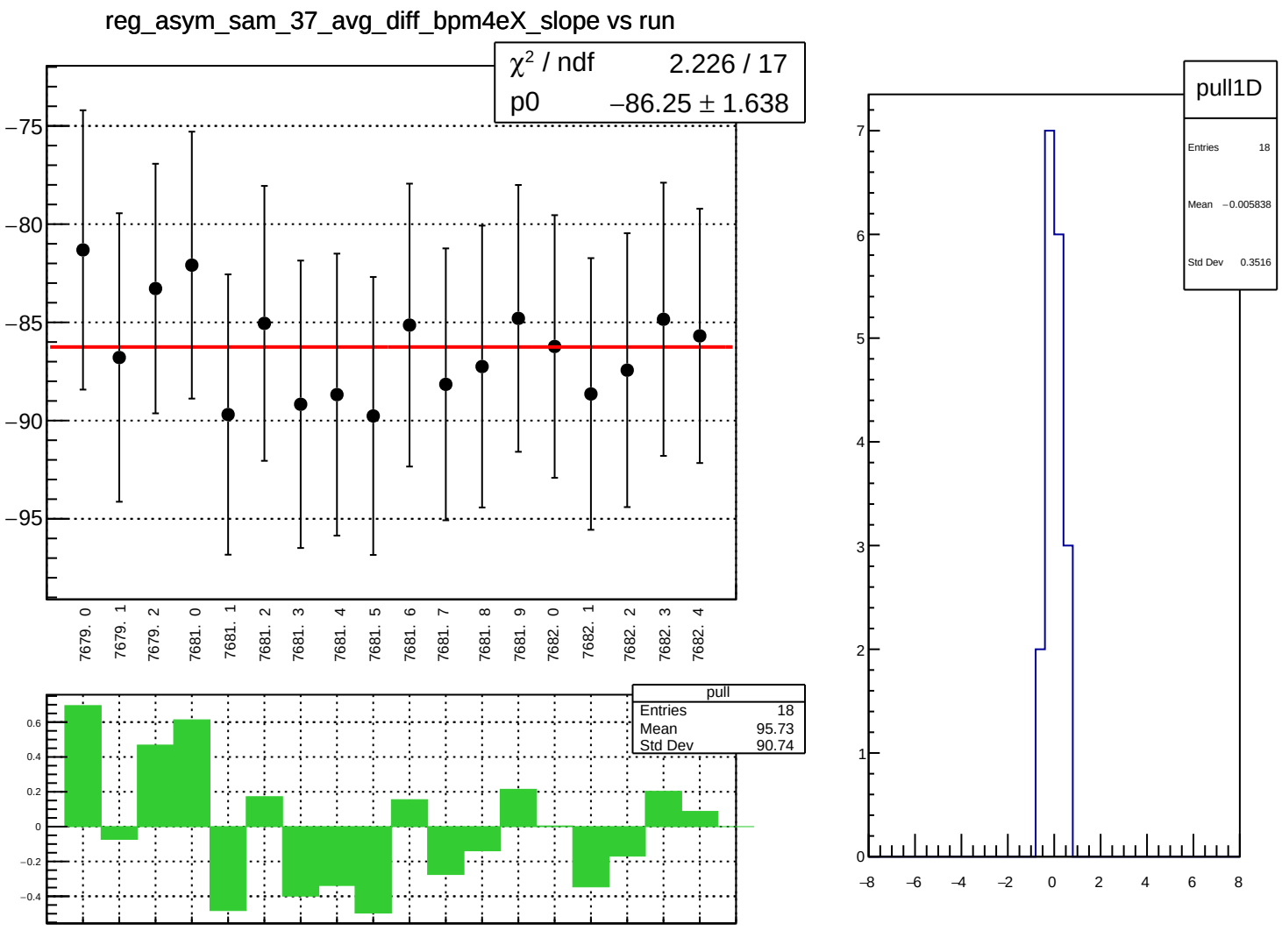

pull
Entries 18
Mean −110.8
Std Dev 121.1
0.2
0.1
0
−0.1
−0.2

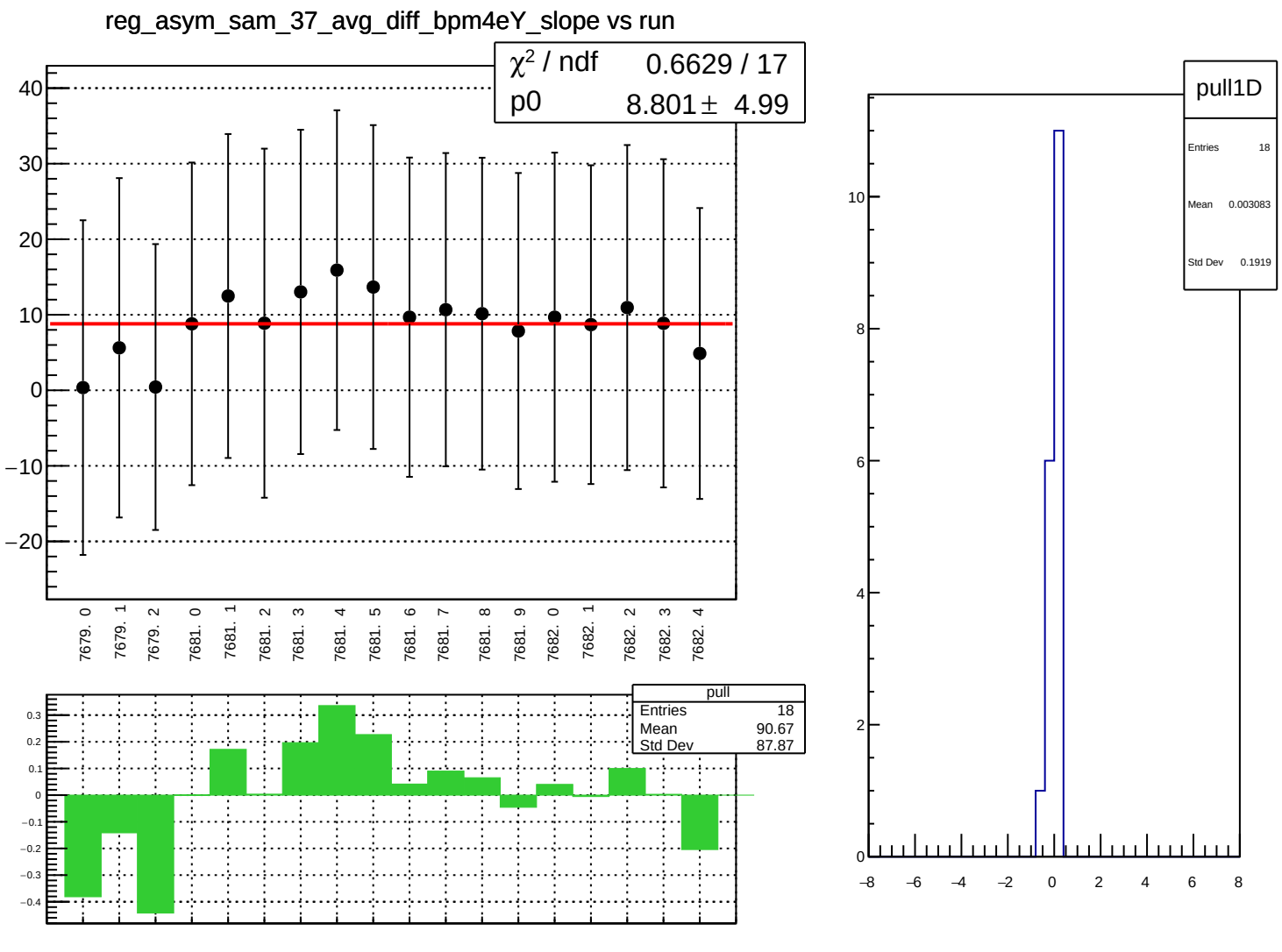

pull1D
Entries 18
Mean 0.001871
Std Dev 0.1427
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

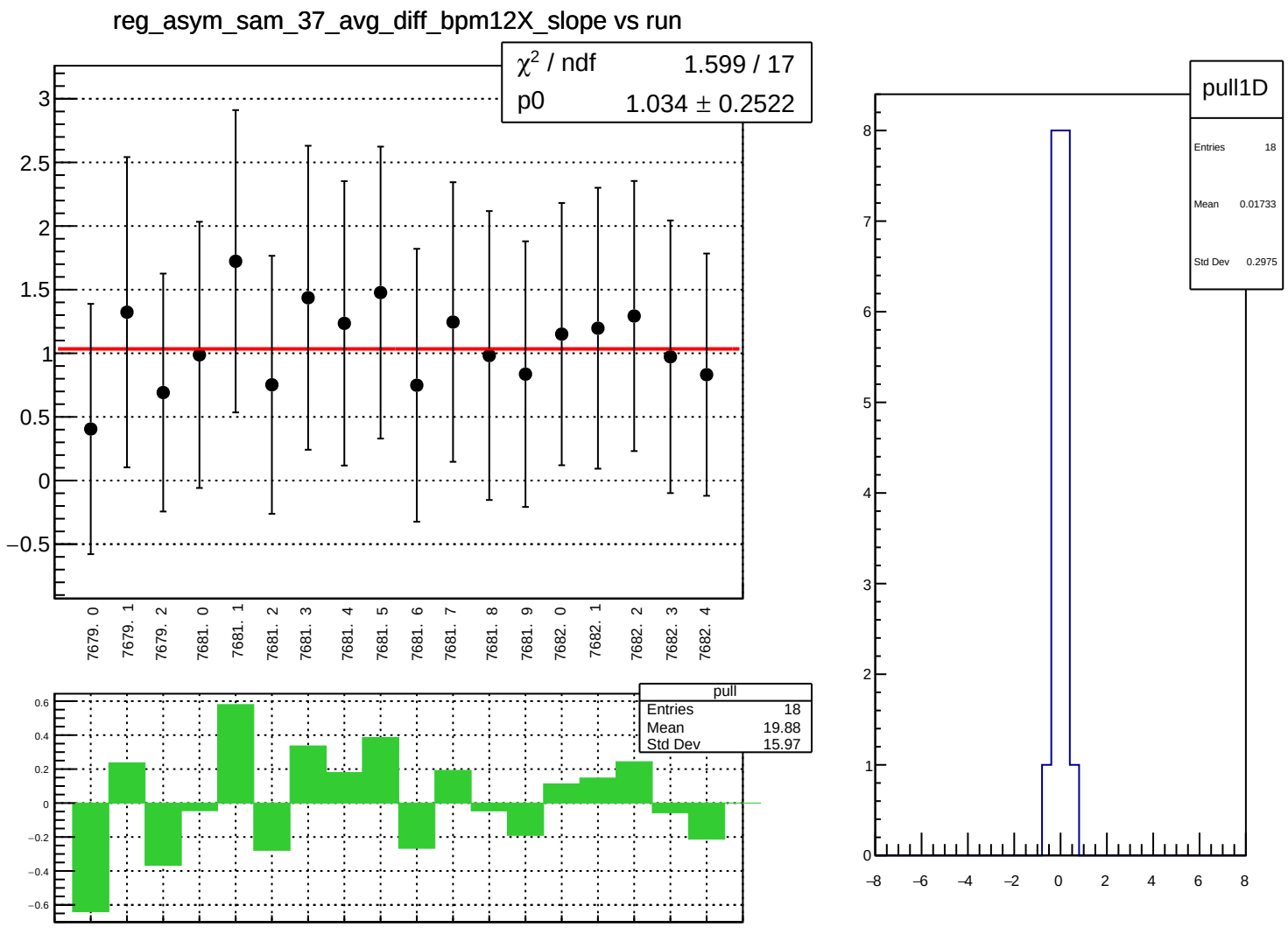

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 0.6128 / 17
p0 −0.0918 ± 0.1068
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −20.39
Std Dev 28.98
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 18
Mean −0.01415
Std Dev 0.184
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

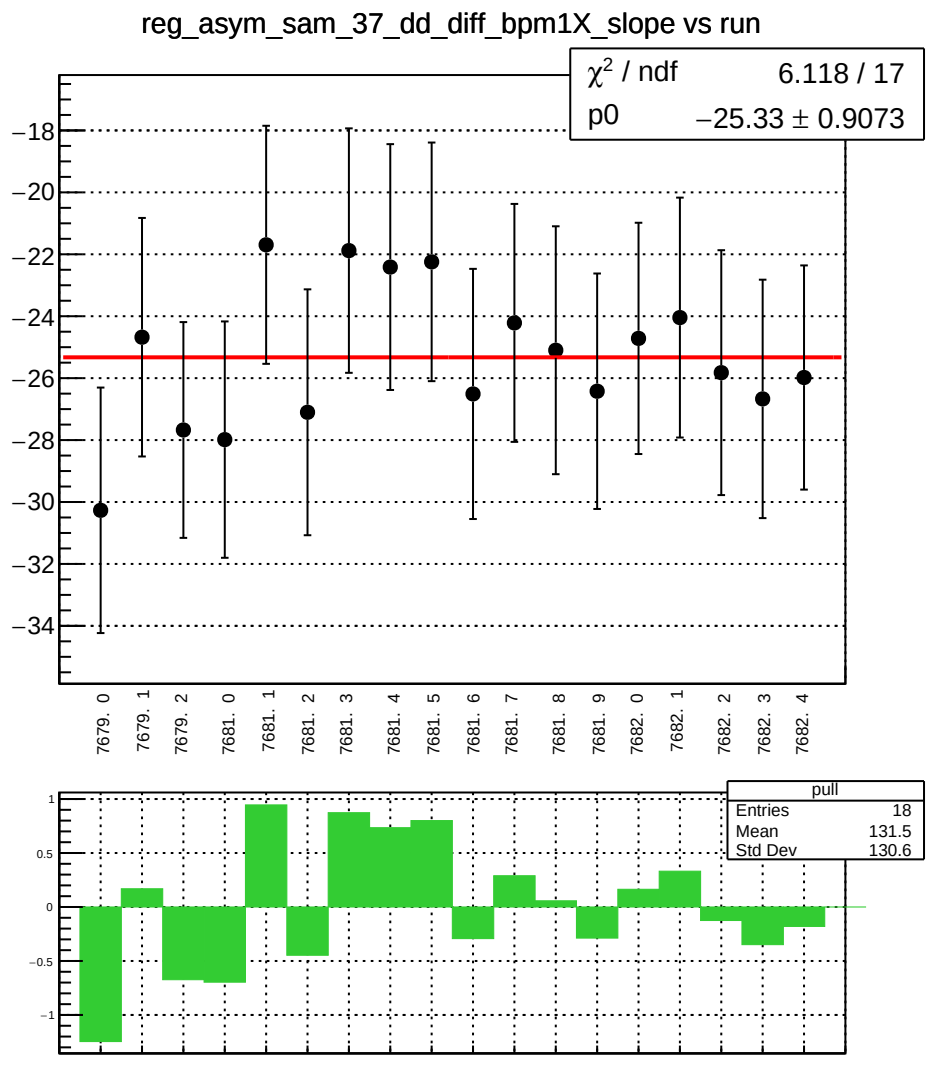

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 2.628 / 17
p0 13.86 ± 2.022
30
25
20
15
10
5
0
−5
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 76.18
Std Dev 71.92
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 18
Mean 0.0075
Std Dev 0.382
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

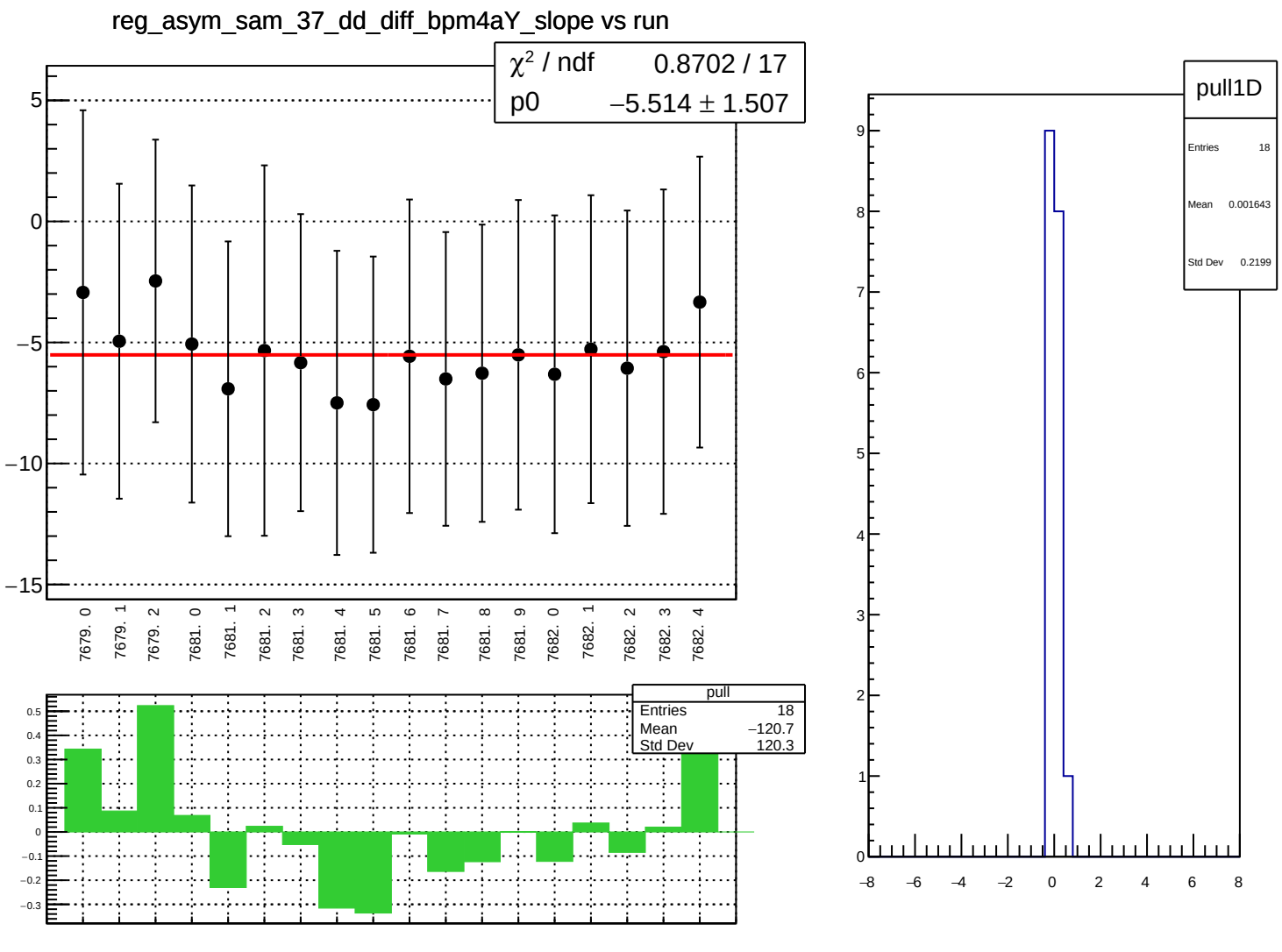

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.535 / 17
p0 0.7876 ± 3.363
25
20
15
10
5
0
−5
−10
−15
−20
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −155.3
Std Dev 153.8
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 18
Mean 0.0009211
Std Dev 0.1724
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

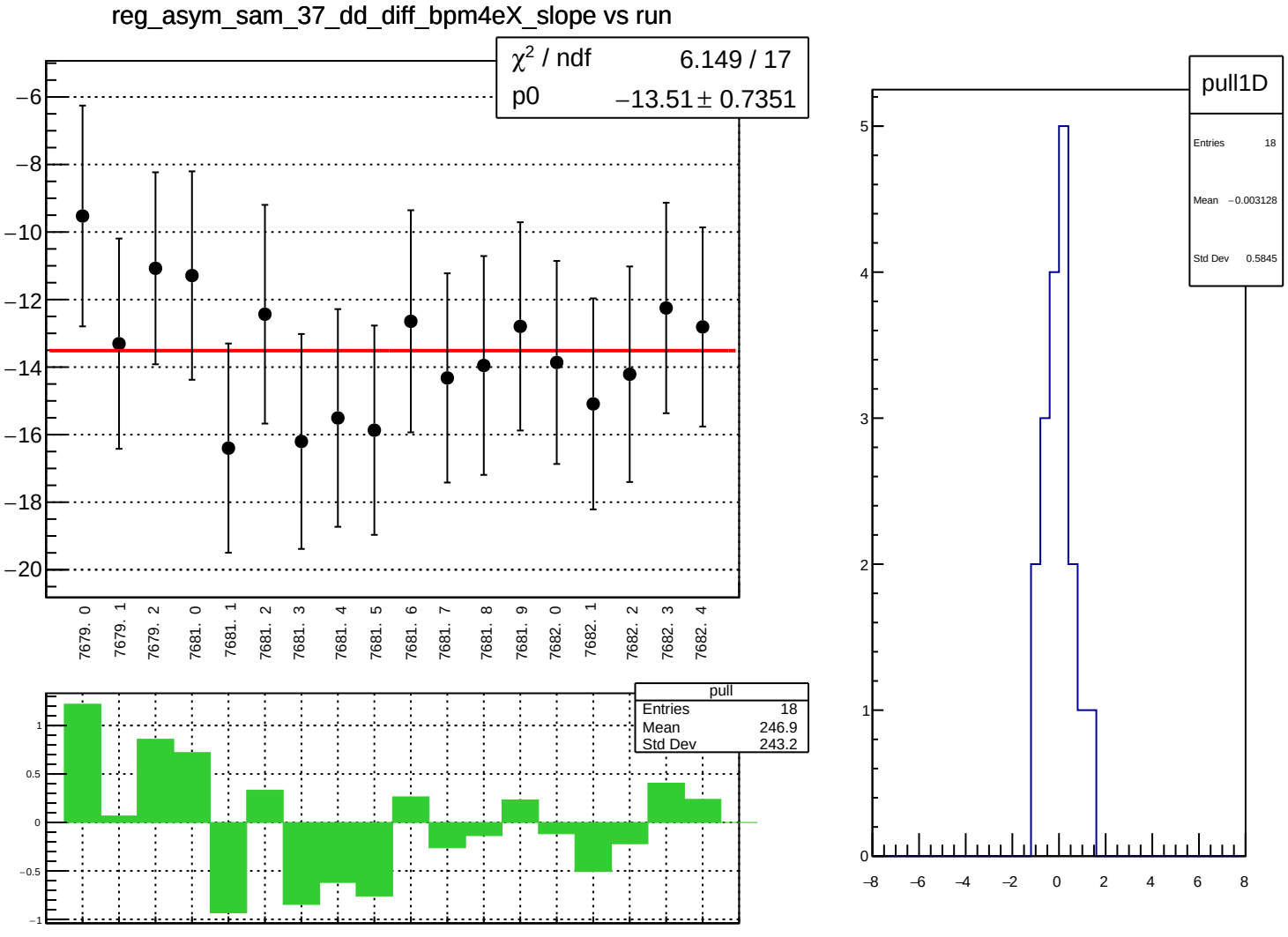

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.226 / 17
p0 −86.25 ± 1.638
−75
−80
−85
−90
−95
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 95.73
Std Dev 90.74
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 18
Mean −0.005838
Std Dev 0.3516
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

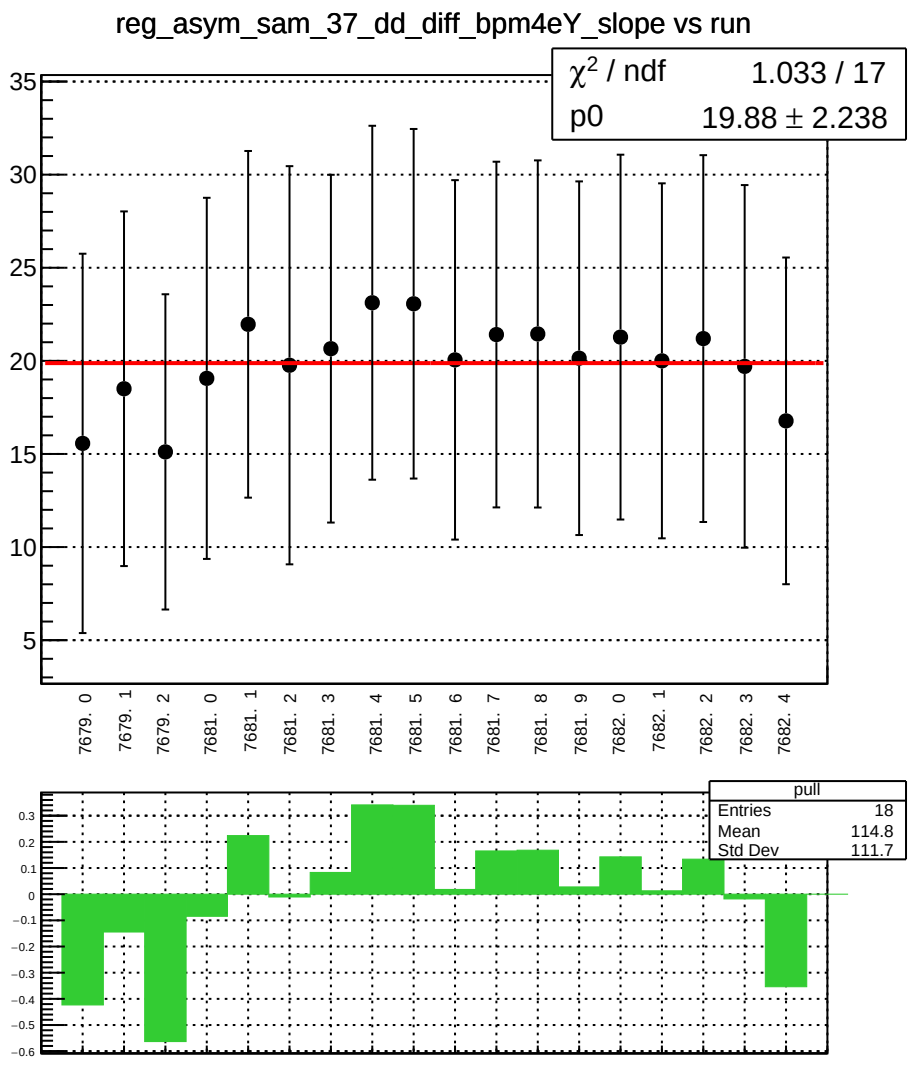

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.6629 / 17
p0 8.801 ± 4.99
40
30
20
10
0
−10
−20
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 90.67
Std Dev 87.87
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 18
Mean 0.003083
Std Dev 0.1919
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

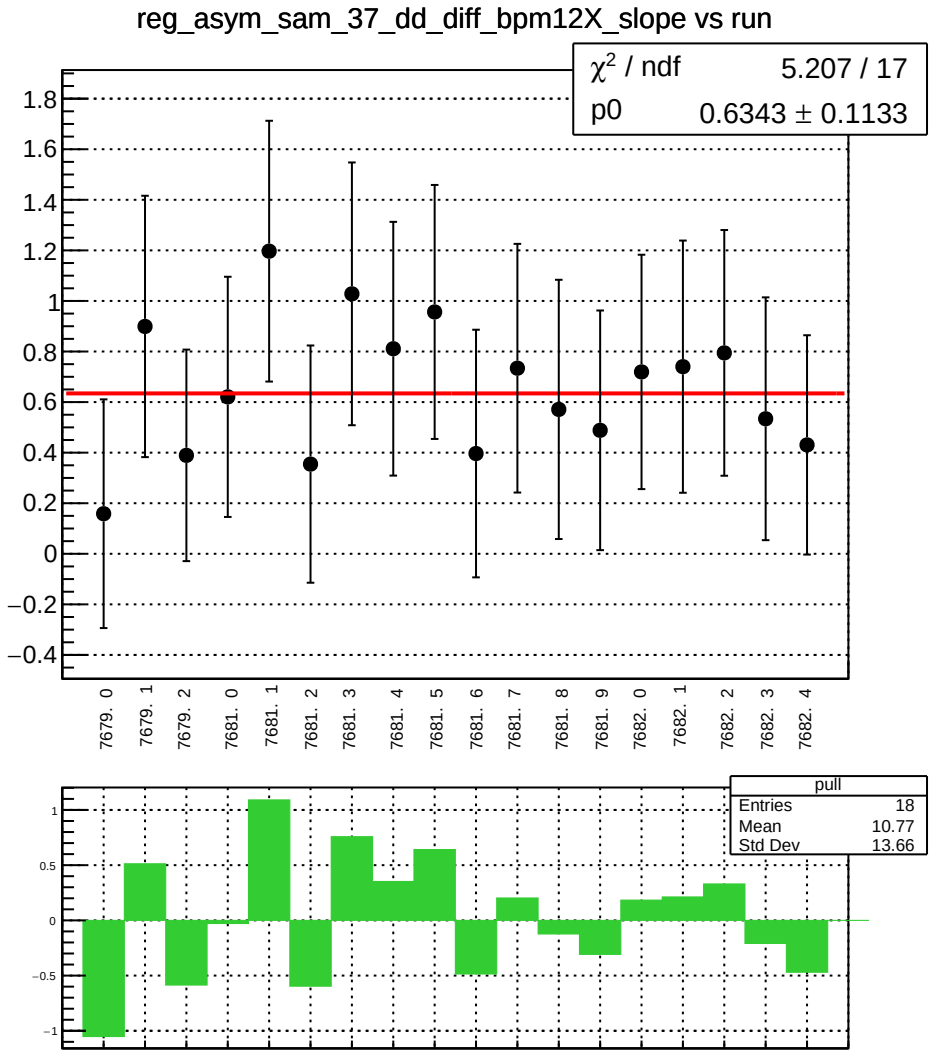

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 1.599 / 17
p0 1.034 ± 0.2522
3
2.5
2
1.5
1
0.5
0
−0.5
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 19.88
Std Dev 15.97
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 18
Mean 0.01733
Std Dev 0.2975
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

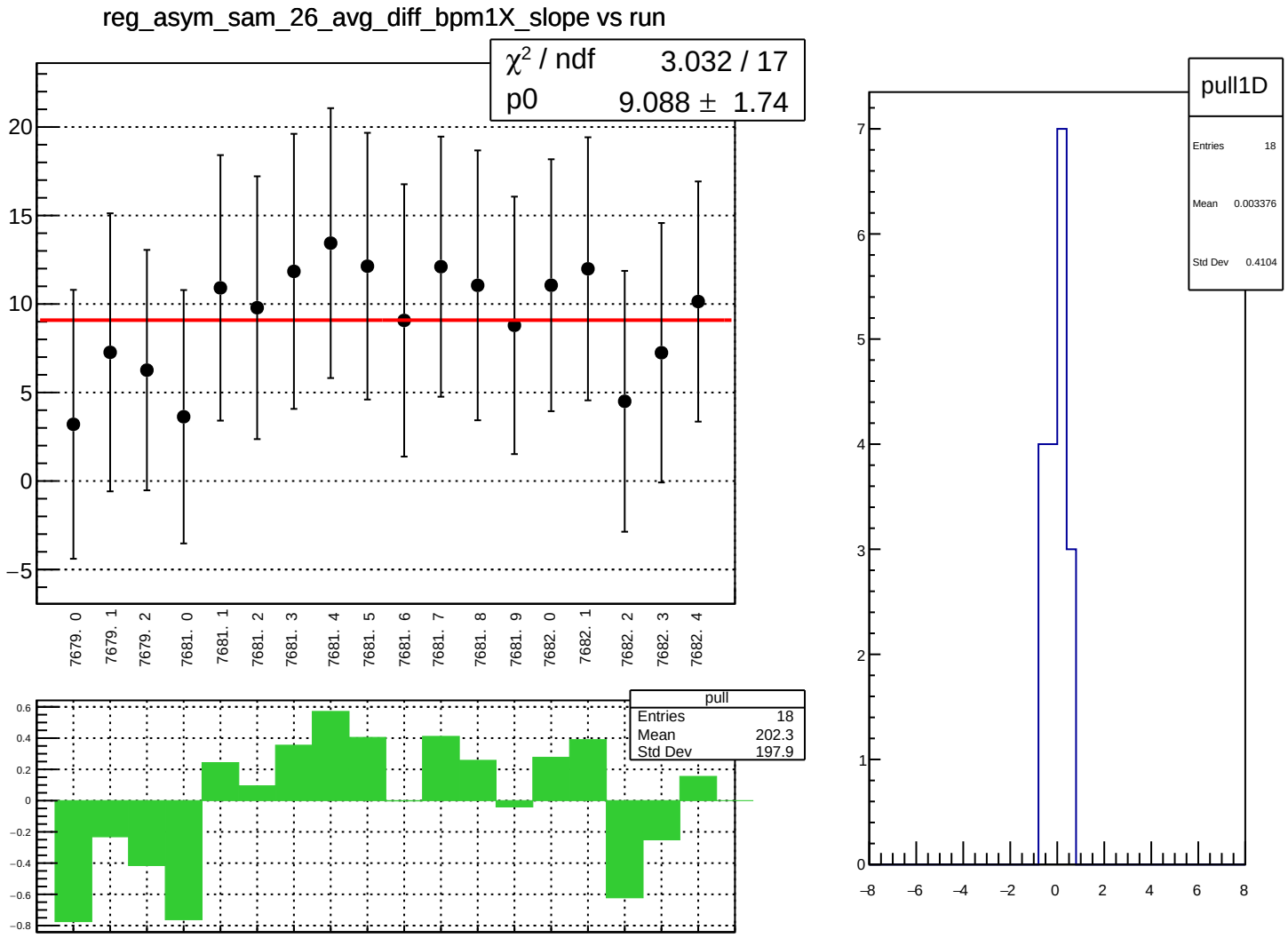

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 6.118 / 17
p0 −25.33 ± 0.9073
−18
−20
−22
−24
−26
−28
−30
−32
−34
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 131.5
Std Dev 130.6
1
0.5
0
−0.5
−1
pull1D
Entries 18
Mean 0.003712
Std Dev 0.583
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

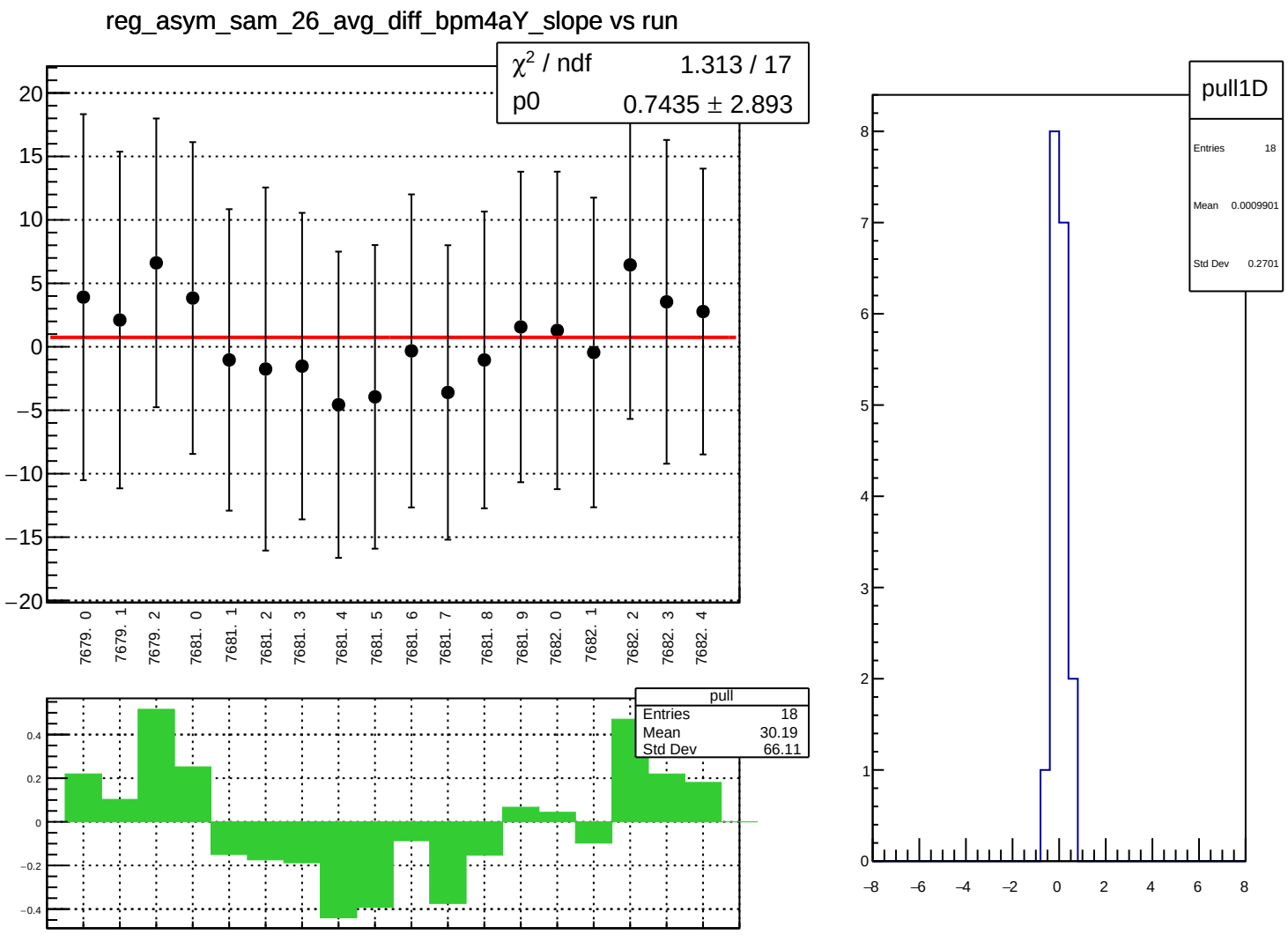

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.8702 / 17
p0 −5.514 ± 1.507
5
0
−5
−10
−15
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −120.7
Std Dev 120.3
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 18
Mean 0.001643
Std Dev 0.2199
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

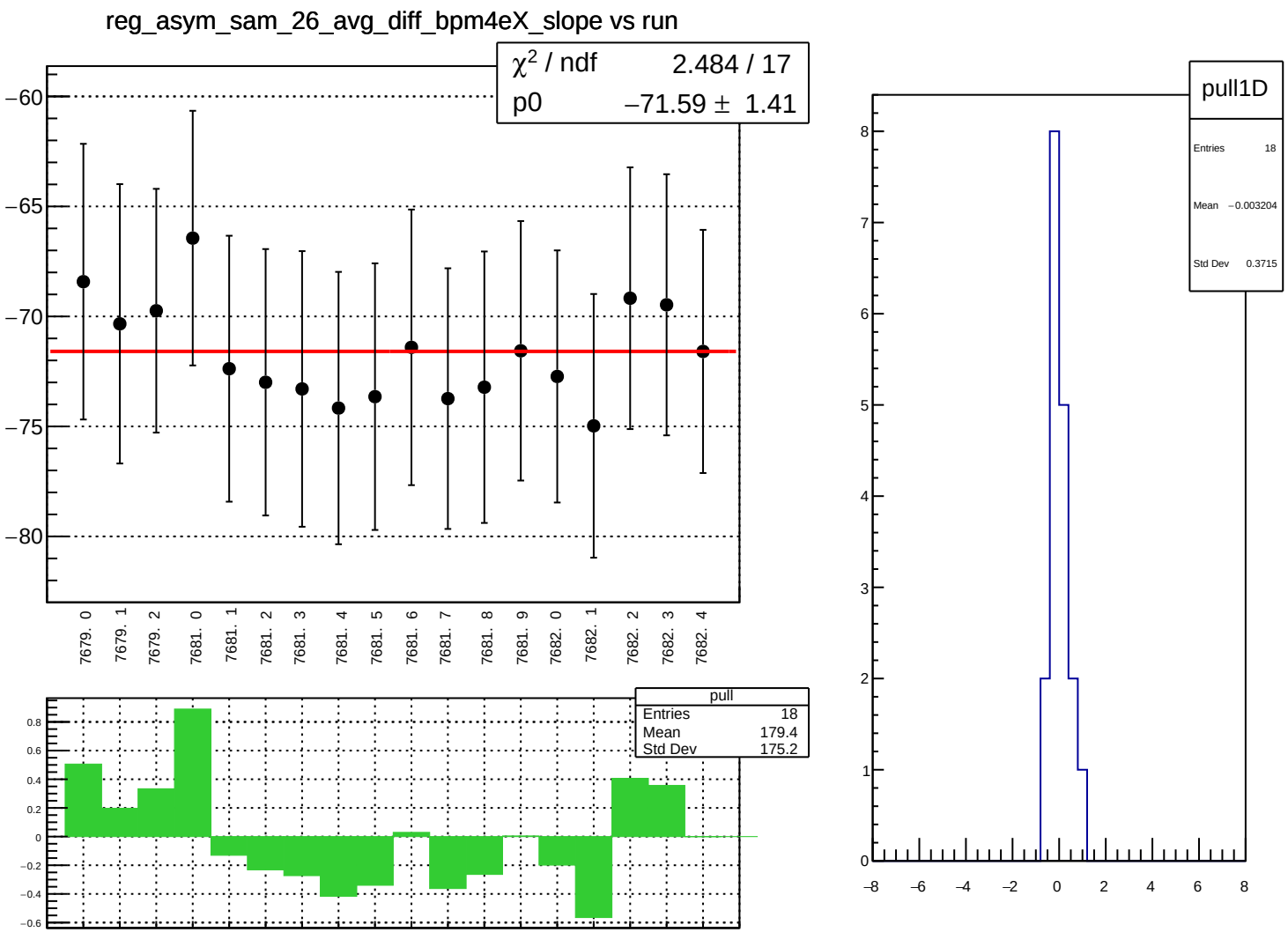

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.149 / 17
p0 −13.51 ± 0.7351
−6
−8
−10
−12
−14
−16
−18
−20
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 246.9
Std Dev 243.2
1
0.5
0
−0.5
−1
pull1D
Entries 18
Mean −0.003128
Std Dev 0.5845
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

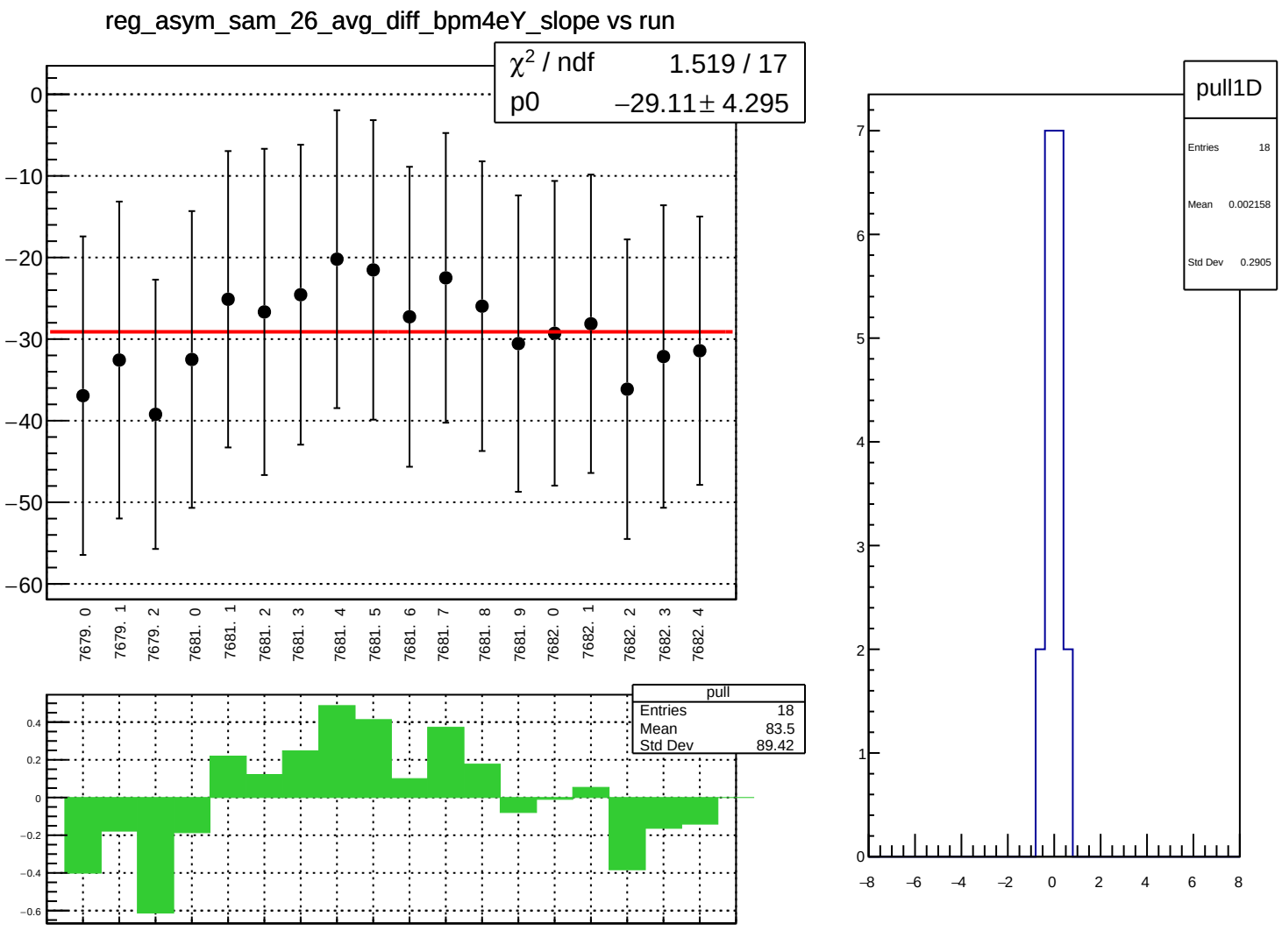

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.033 / 17
p0 19.88 ± 2.238
35
30
25
20
15
10
5
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 114.8
Std Dev 111.7
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
pull1D
Entries 18
Mean 0.003236
Std Dev 0.2396
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

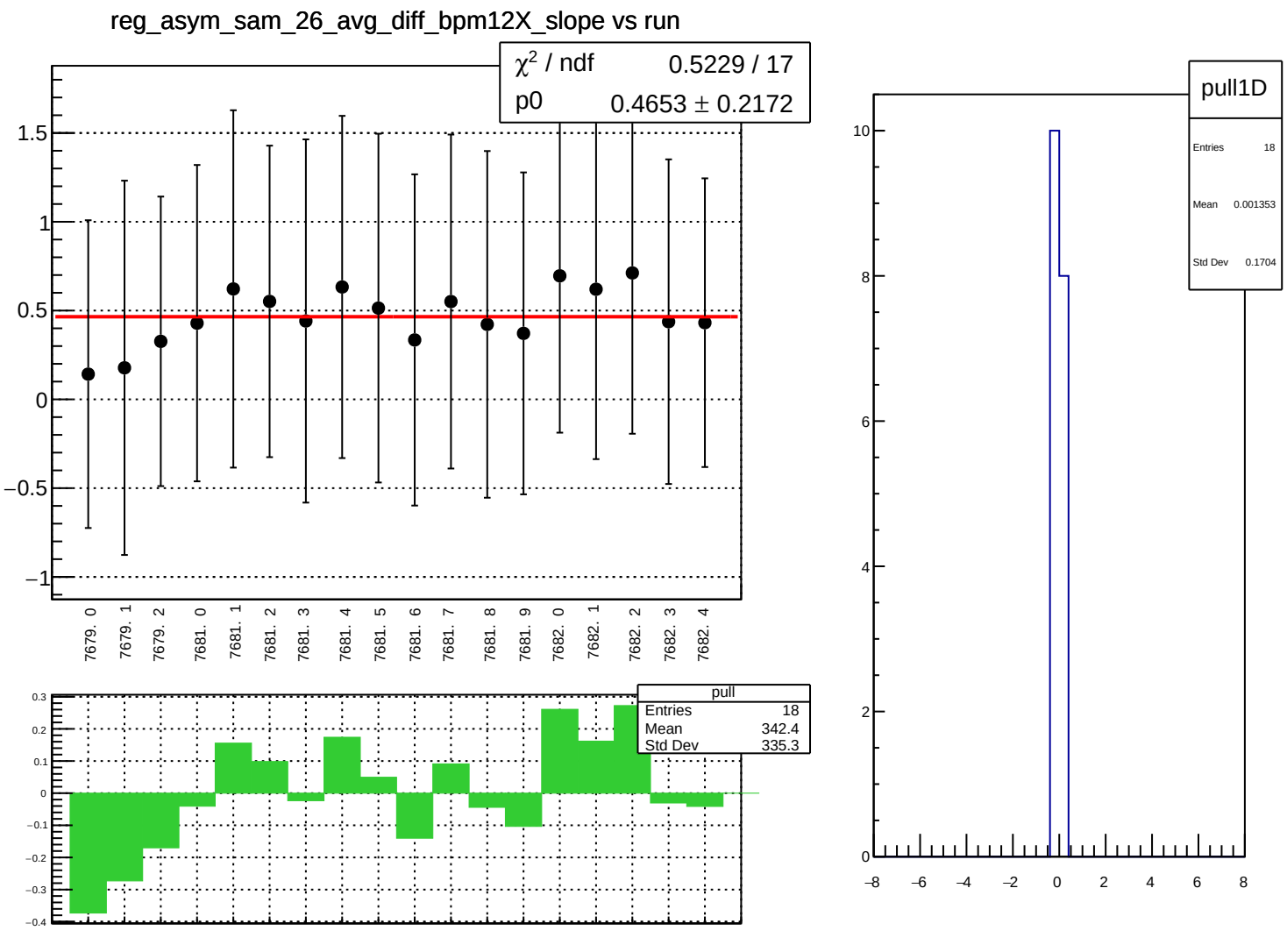

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 5.207 / 17
p0 0.6343 ± 0.1133
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 10.77
Std Dev 13.66
1
0.5
0
−0.5
−1
pull1D
Entries 18
Mean 0.02364
Std Dev 0.5373
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

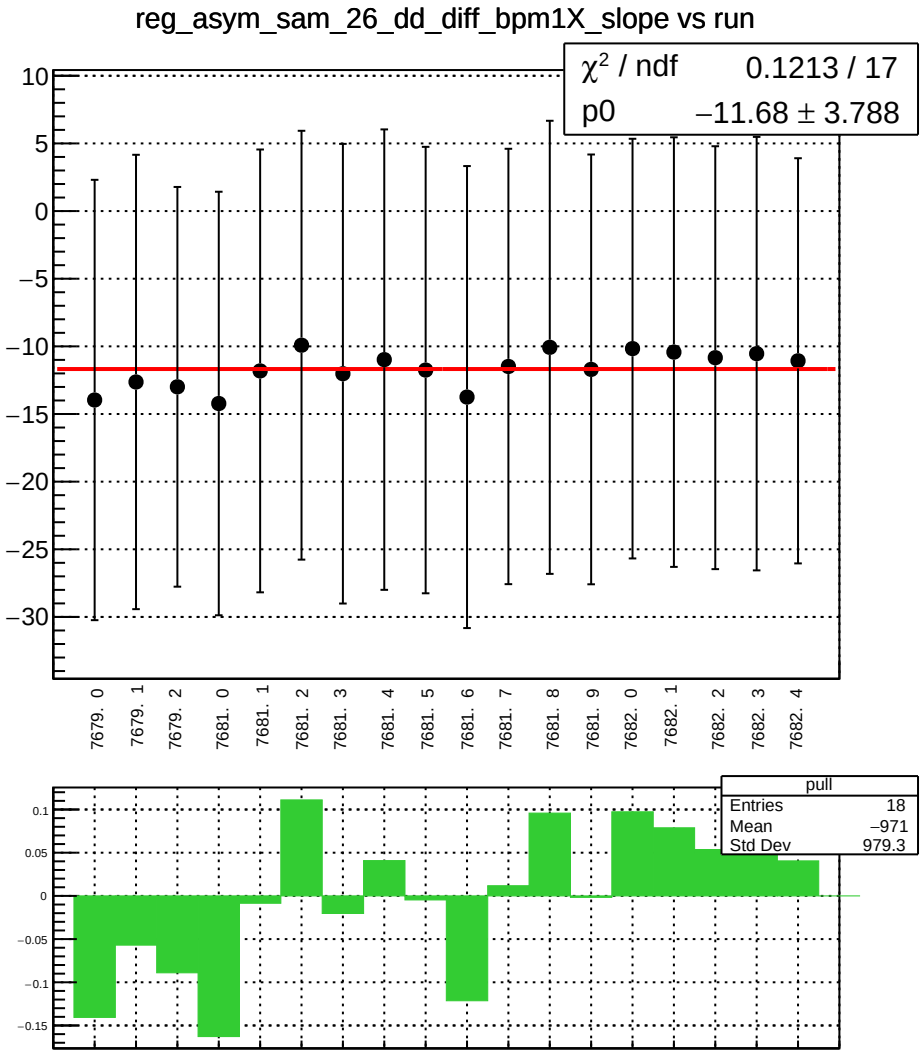

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 3.032 / 17
p0 9.088 ± 1.74
20
15
10
5
0
−5
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 202.3
Std Dev 197.9
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 18
Mean 0.003376
Std Dev 0.4104
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

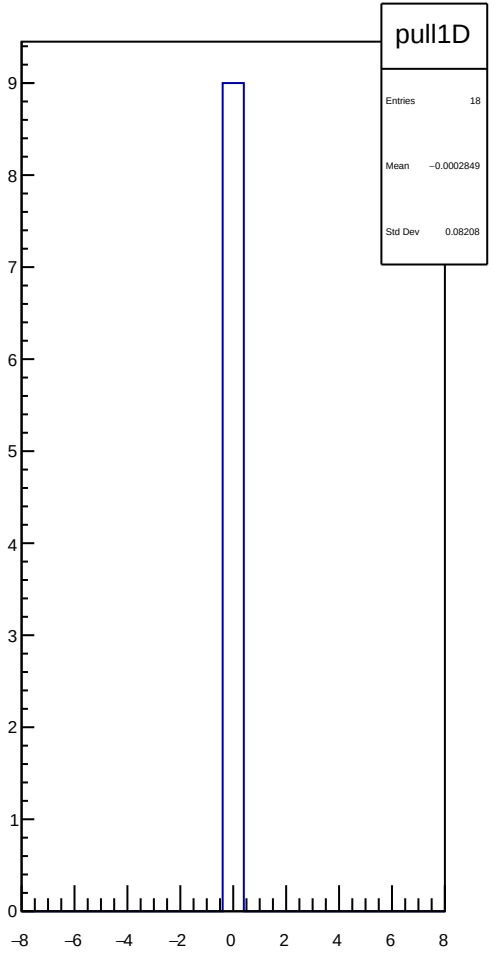

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.313 / 17
p0 0.7435 ± 2.893
20
15
10
5
0
−5
−10
−15
−20
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 30.19
Std Dev 66.11
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 18
Mean 0.0009901
Std Dev 0.2701
8
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 2.484 / 17
p0 −71.59 ± 1.41
−60
−65
−70
−75
−80
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 179.4
Std Dev 175.2
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 18
Mean −0.003204
Std Dev 0.3715
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.519 / 17
p0 −29.11± 4.295
0
−10
−20
−30
−40
−50
−60
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 83.5
Std Dev 89.42
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 18
Mean 0.002158
Std Dev 0.2905
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 0.5229 / 17
p0 0.4653 ± 0.2172
1.5
1
0.5
0
−0.5
−1
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 342.4
Std Dev 335.3
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 18
Mean 0.001353
Std Dev 0.1704
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 0.1213 / 17
p0 −11.68 ± 3.788
10
5
0
−5
−10
−15
−20
−25
−30
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −971
Std Dev 979.3
0.1
0.05
0
−0.05
−0.1
−0.15


pull1D
Entries 18
Mean −0.0002849
Std Dev 0.08208
9
8
7
6
5
4
3
2
1
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−4
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2
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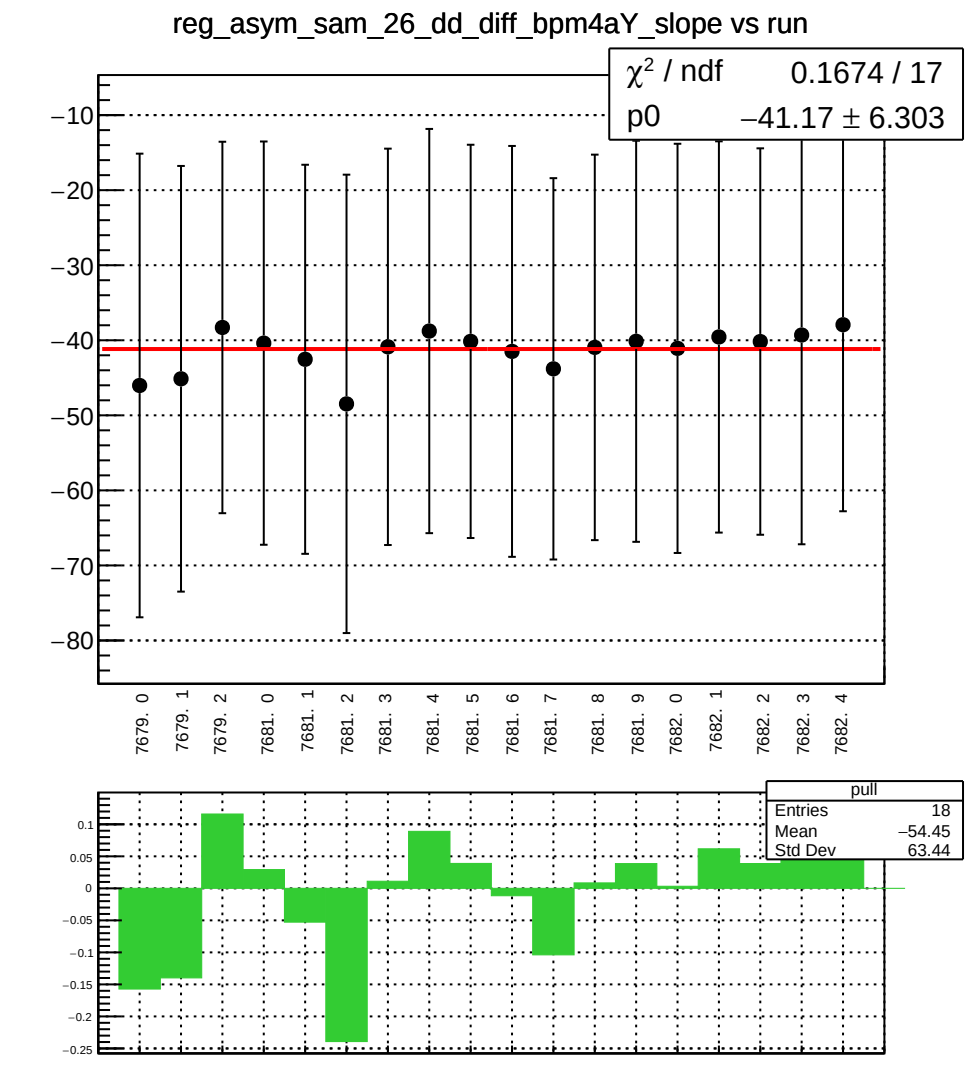
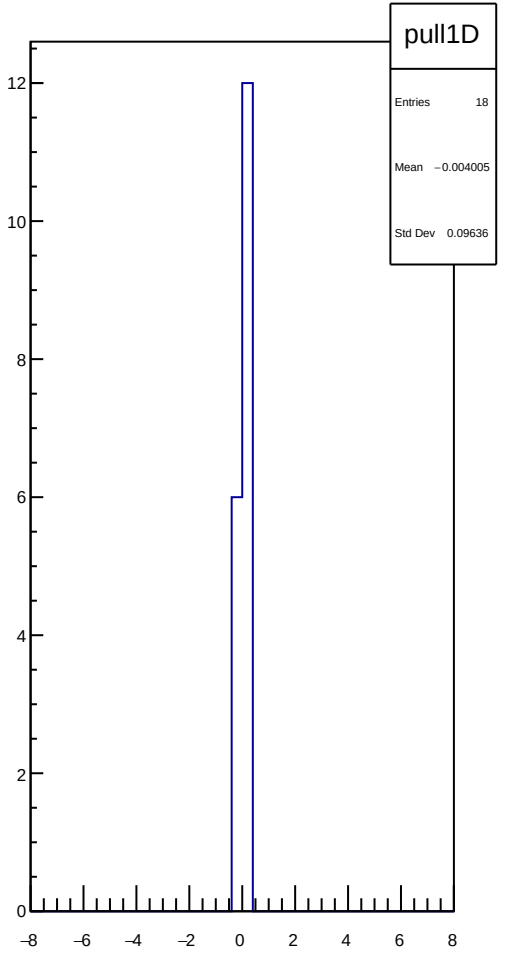
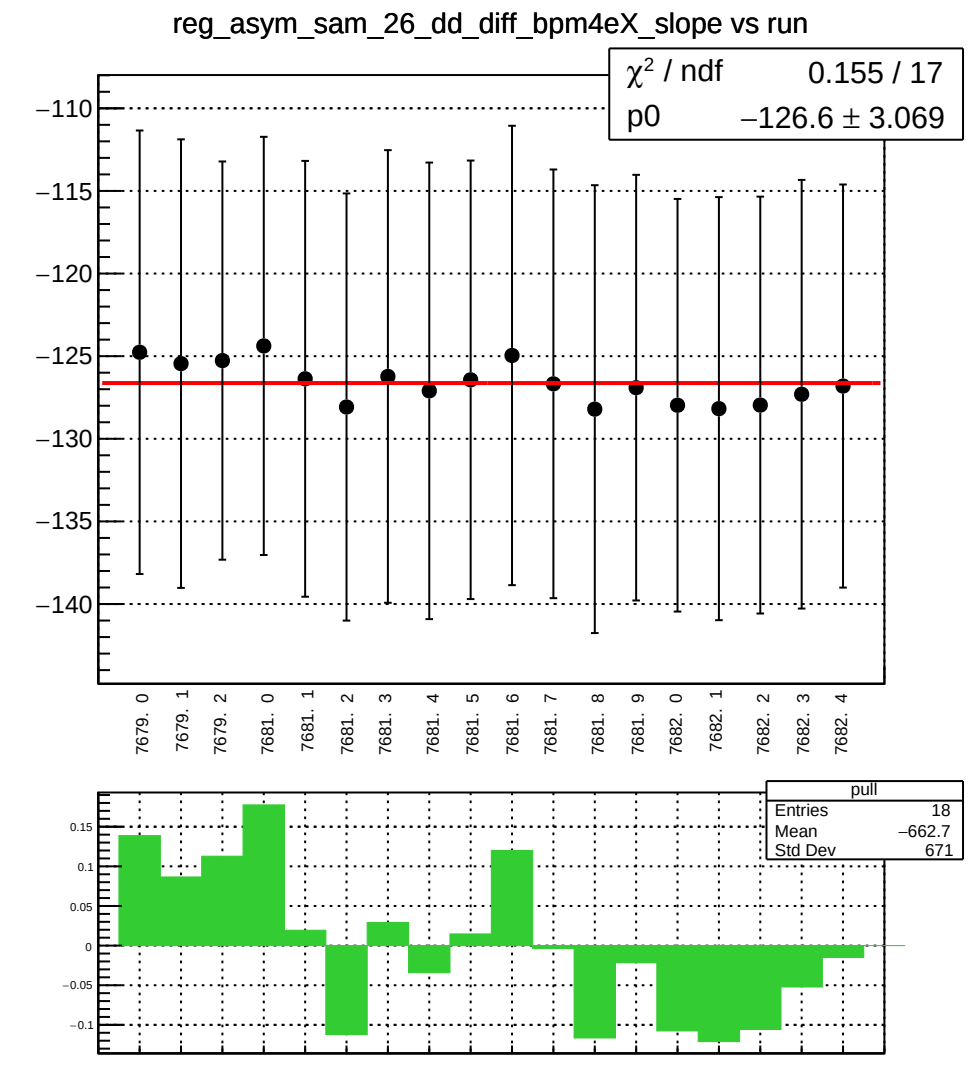
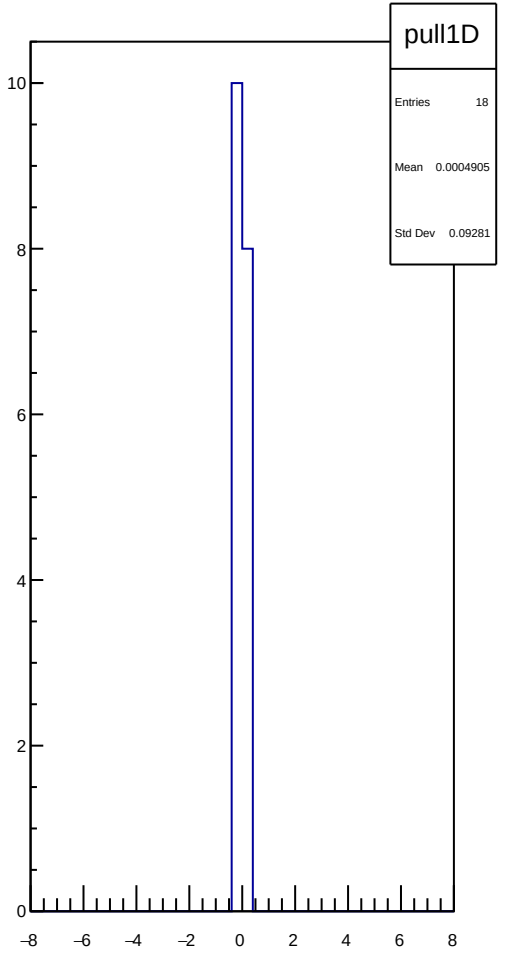
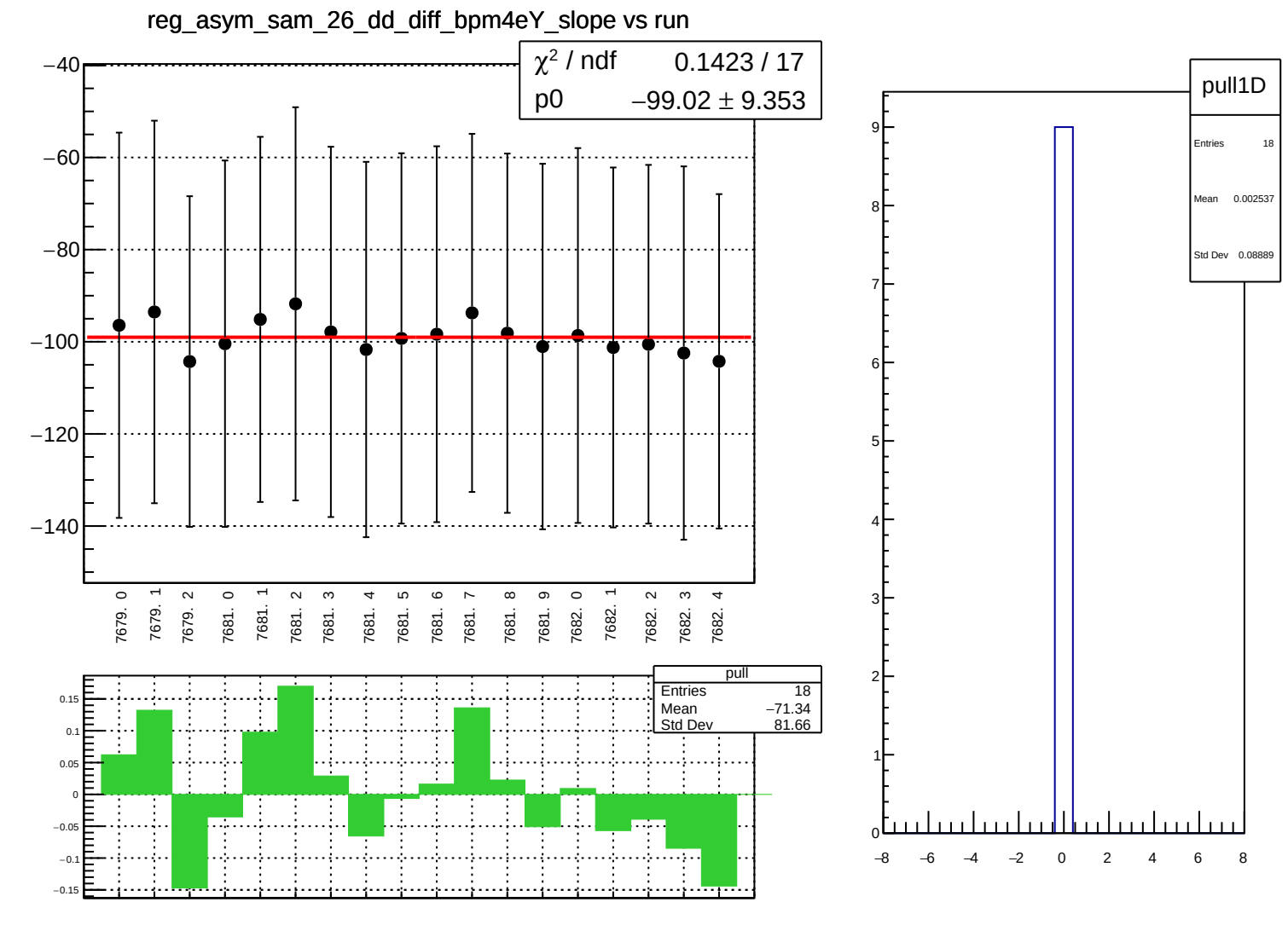
6
8

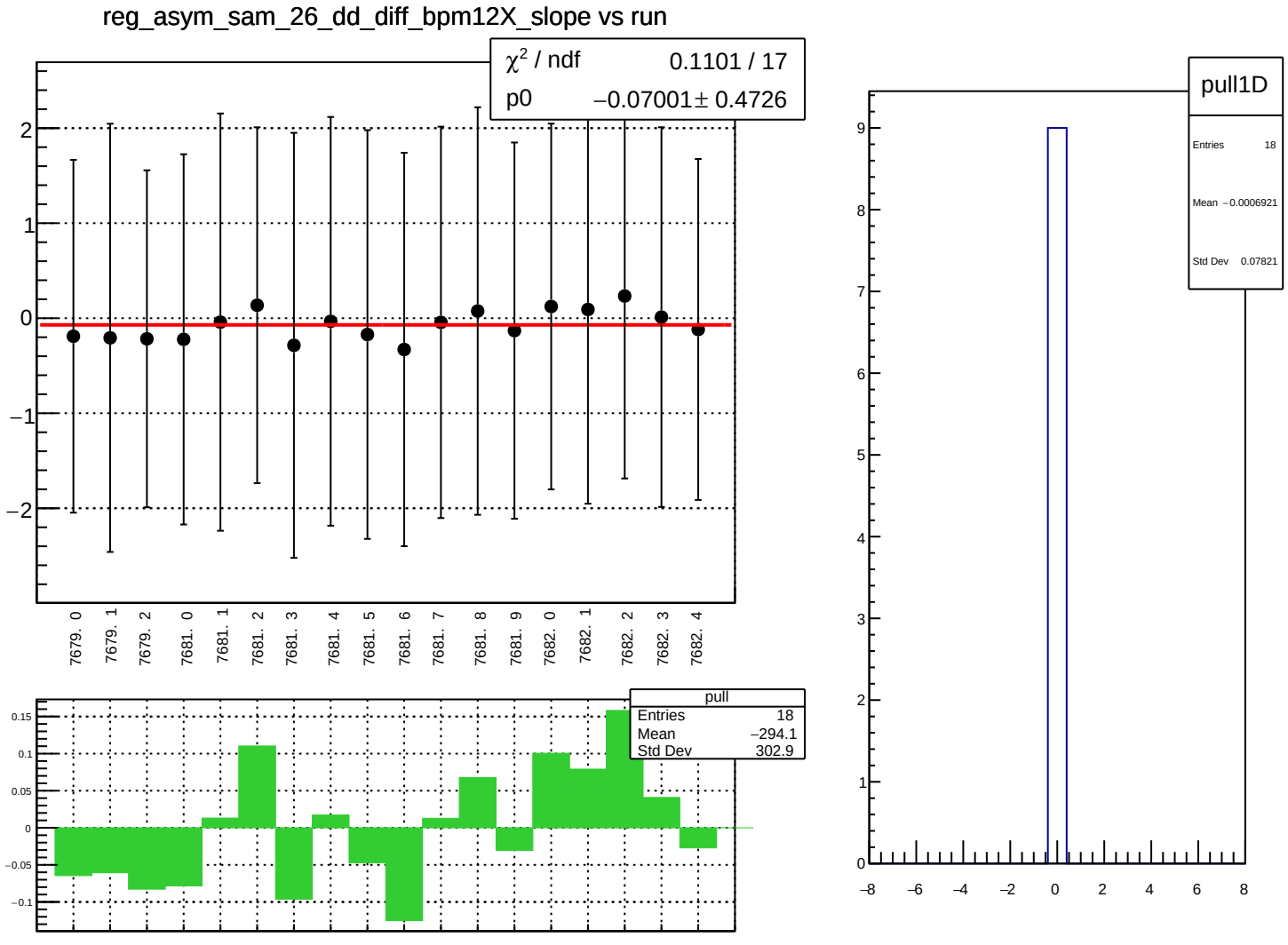

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.1674 / 17
p0 −41.17 ± 6.303
−10
−20
−30
−40
−50
−60
−70
−80
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −54.45
Std Dev 63.44
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
−0.25

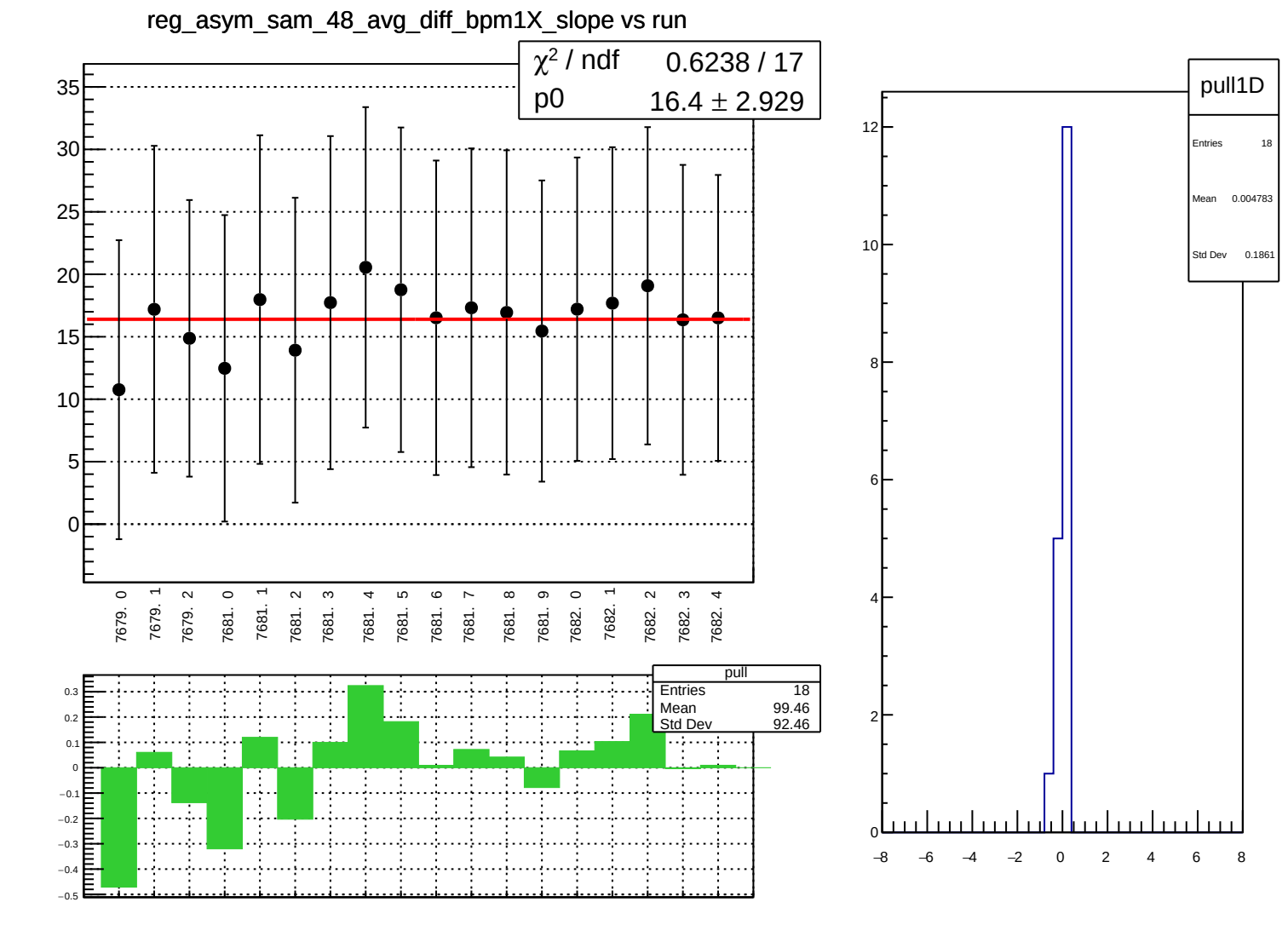

pull1D
Entries 18
Mean −0.004005
Std Dev 0.09636
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

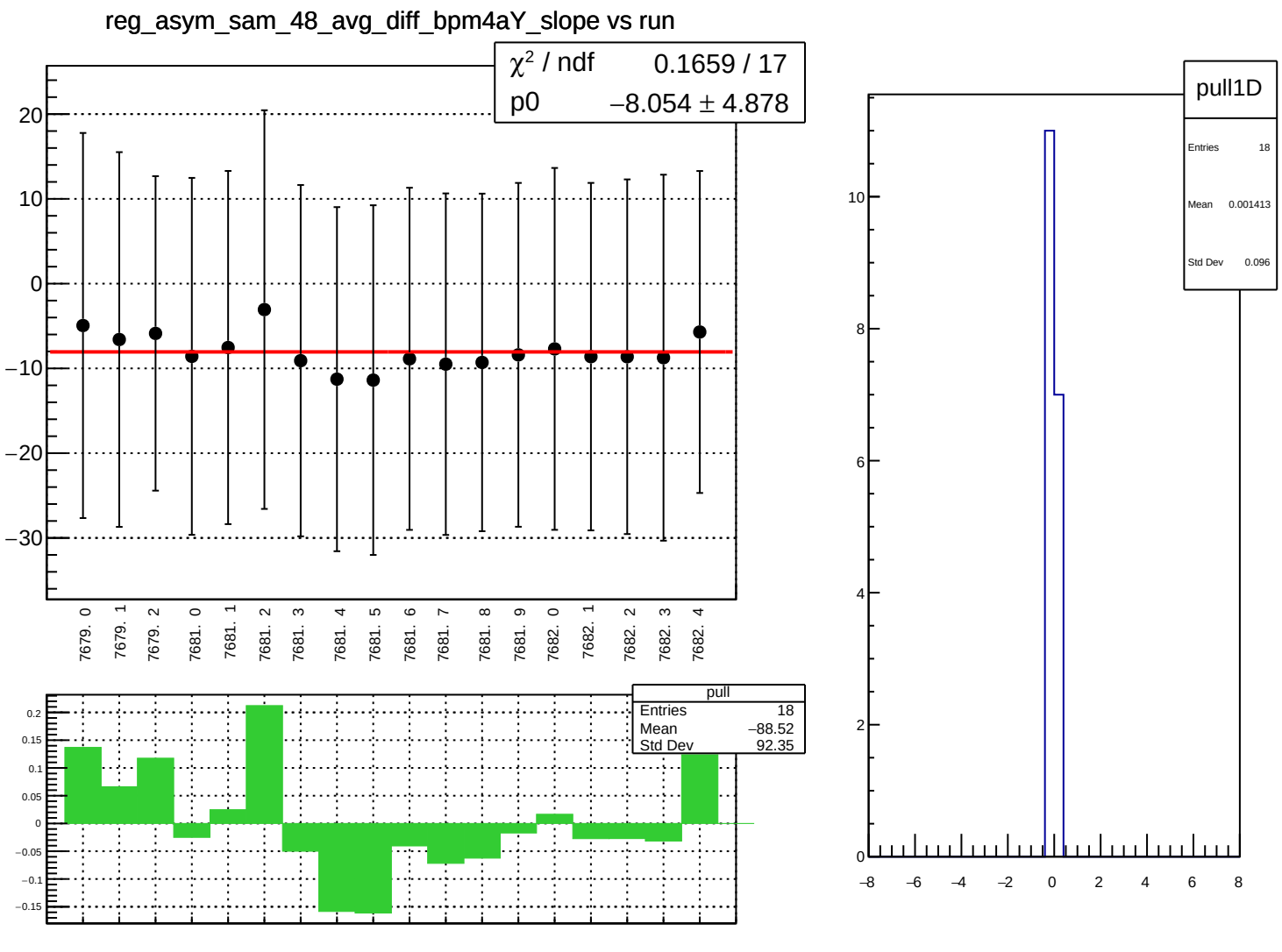

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.155 / 17
p0 −126.6 ± 3.069
−110
−115
−120
−125
−130
−135
−140
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −662.7
Std Dev 671
0.15
0.1
0.05
0
−0.05
−0.1

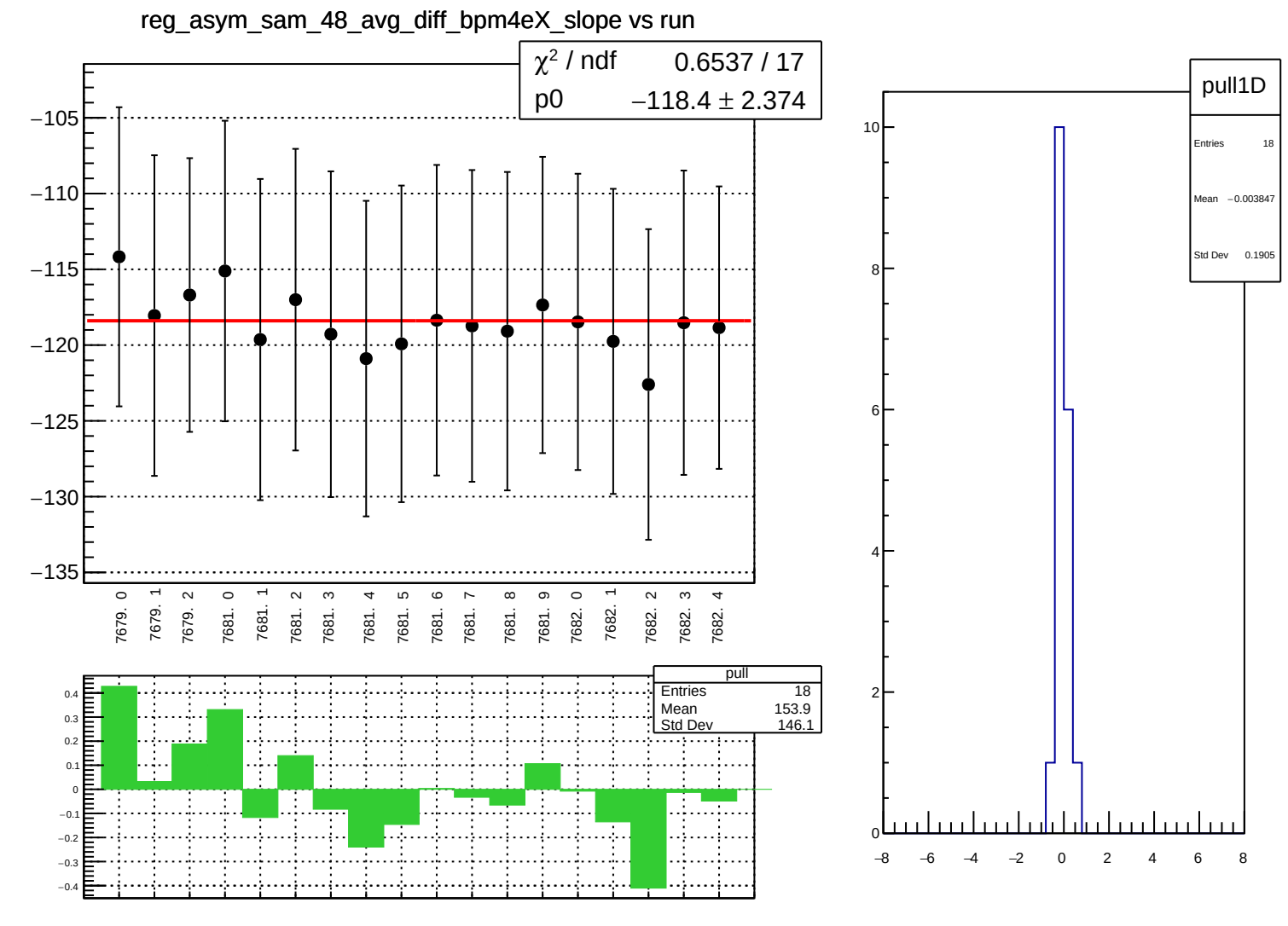

pull1D
Entries 18
Mean 0.0004905
Std Dev 0.09281
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

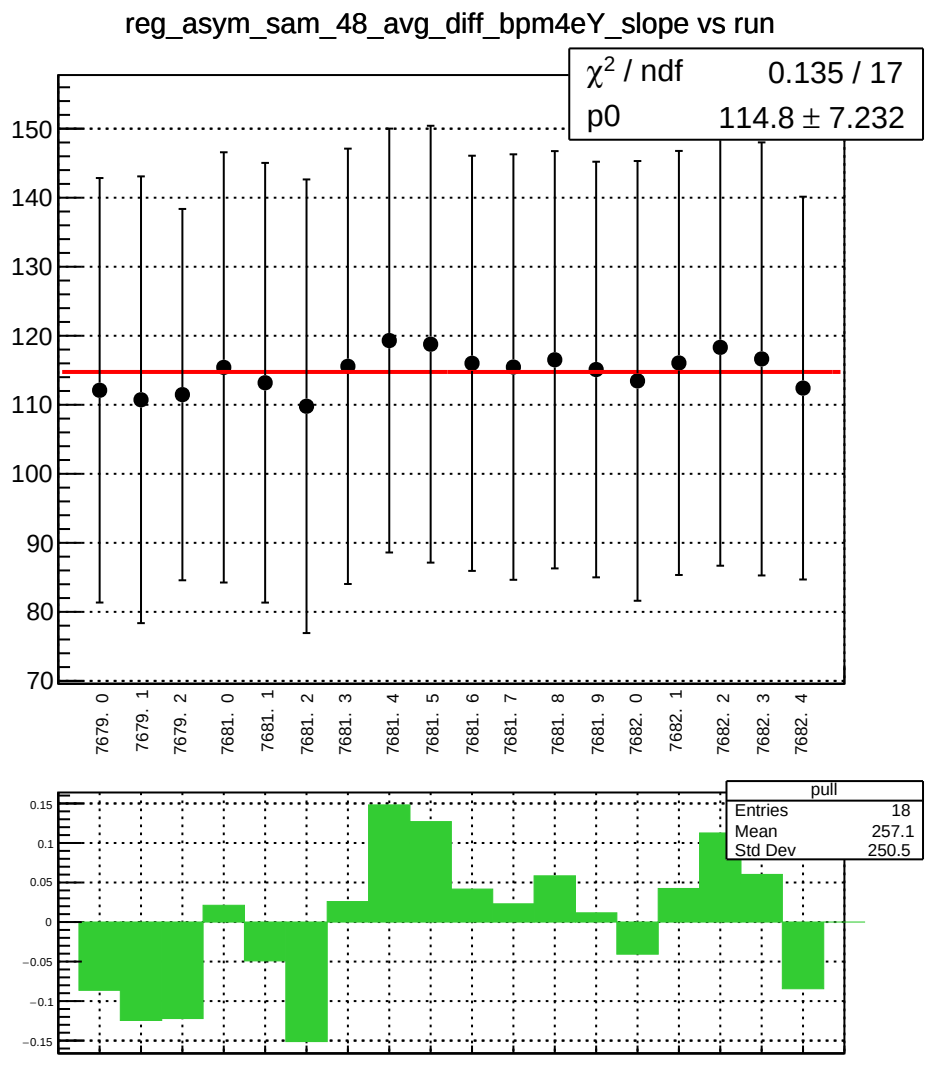

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.1423 / 17
p0 −99.02 ± 9.353
−40
−60
−80
−100
−120
−140
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −71.34
Std Dev 81.66
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull1D
Entries 18
Mean 0.002537
Std Dev 0.08889
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

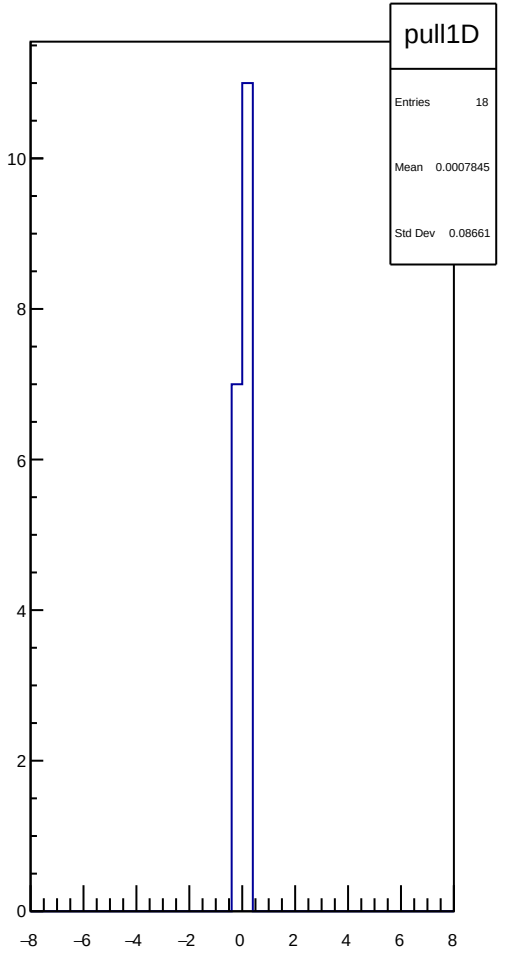

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 0.1101 / 17
p0 −0.07001± 0.4726
2
1
0
−1
−2
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −294.1
Std Dev 302.9
0.15
0.1
0.05
0
−0.05
−0.1
pull1D
Entries 18
Mean −0.0006921
Std Dev 0.07821
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

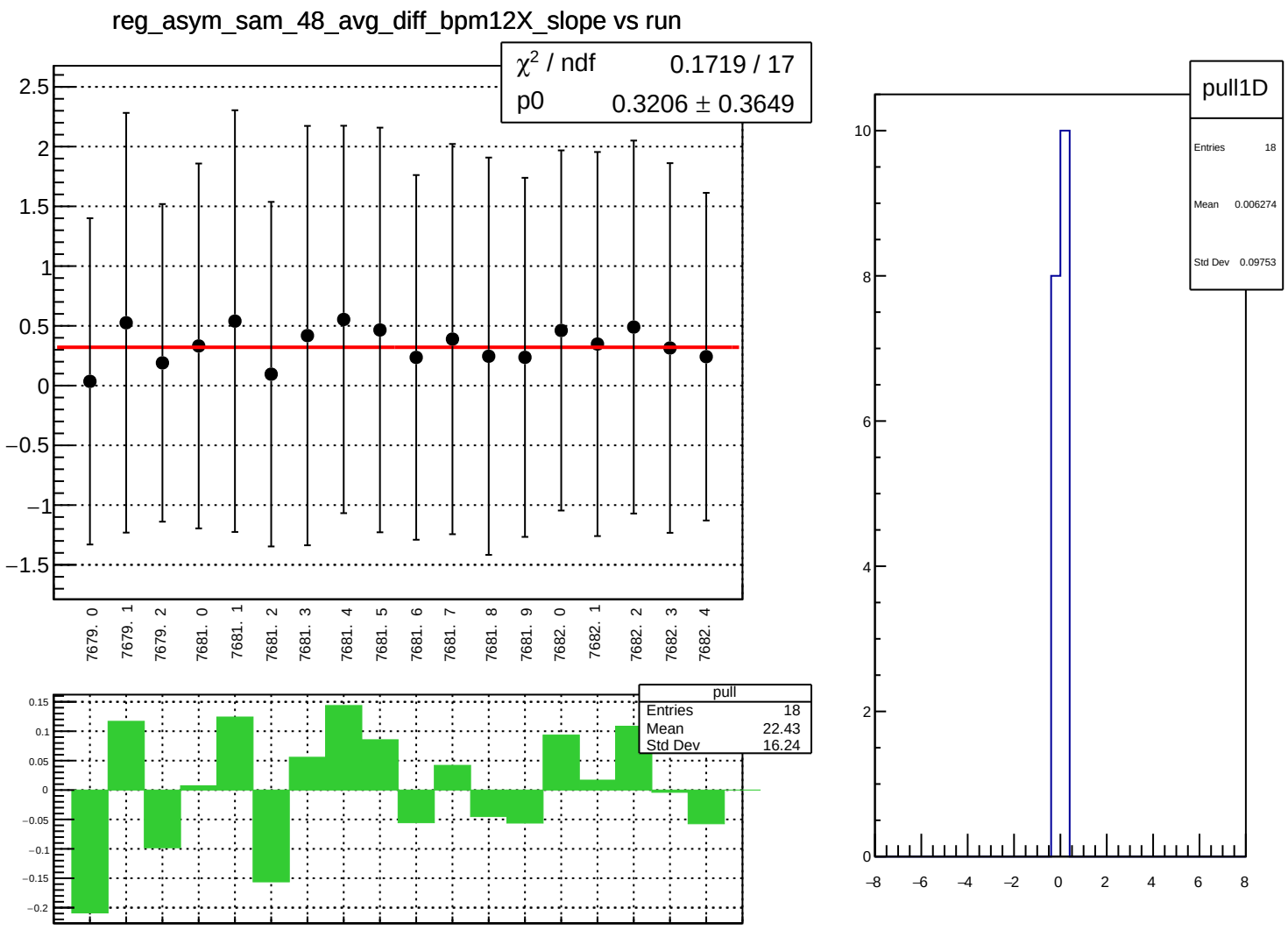

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 0.6238 / 17
p0 16.4 ± 2.929
35
30
25
20
15
10
5
0
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 99.46
Std Dev 92.46
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
pull1D
Entries 18
Mean 0.004783
Std Dev 0.1861
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

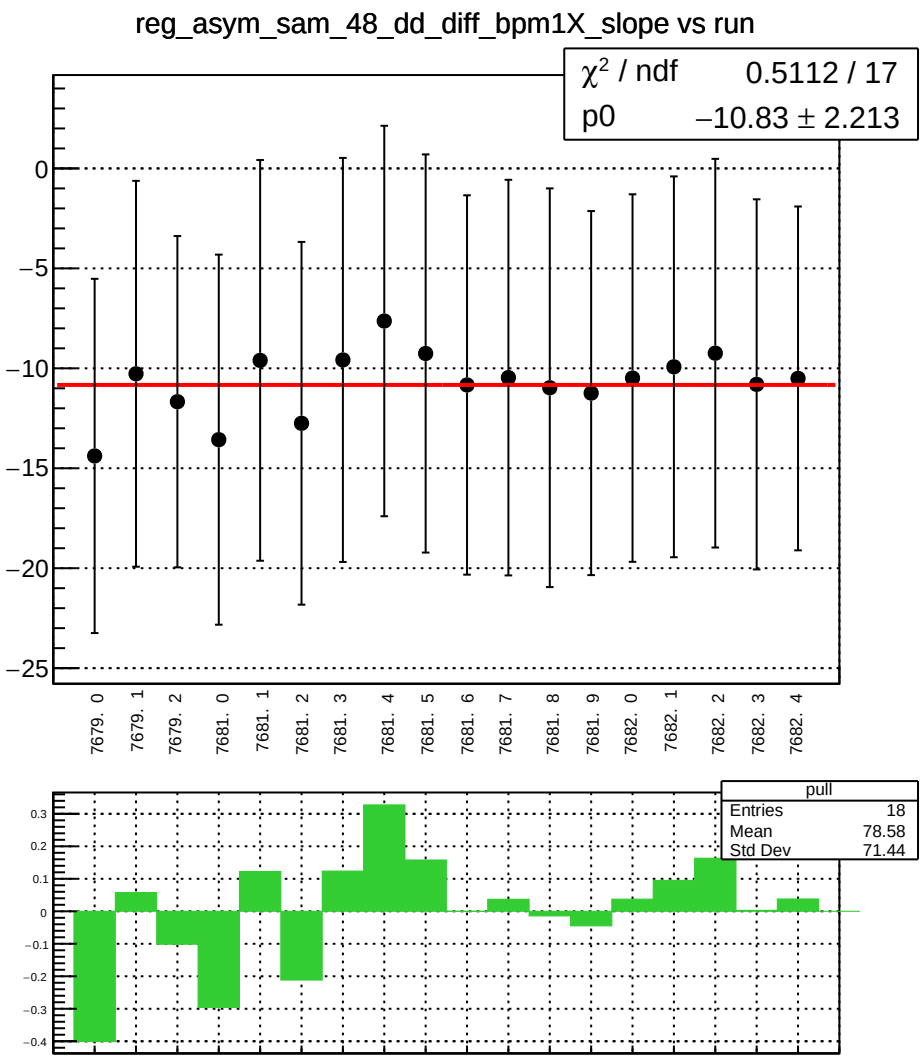

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.1659 / 17
p0 −8.054 ± 4.878
20
10
0
−10
−20
−30
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −88.52
Std Dev 92.35
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull1D
Entries 18
Mean 0.001413
Std Dev 0.096
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

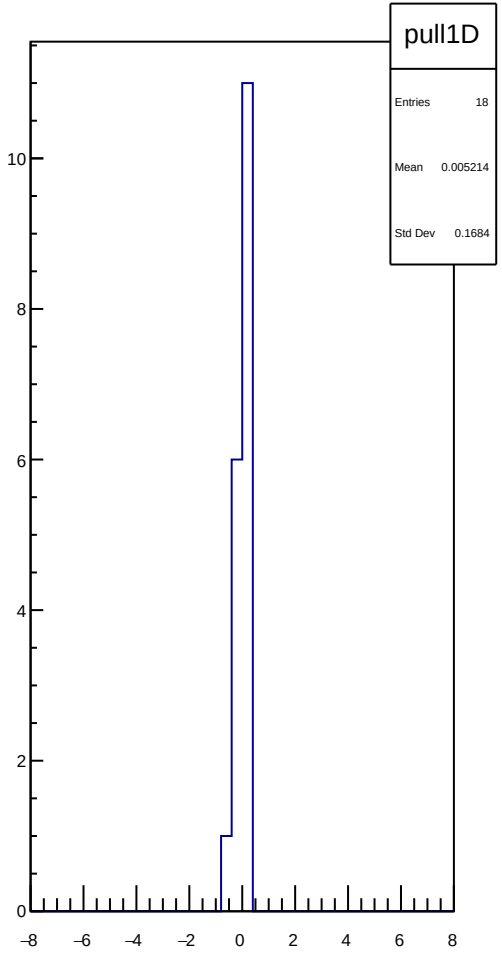

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 0.6537 / 17
p0 −118.4 ± 2.374
−105
−110
−115
−120
−125
−130
−135
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 153.9
Std Dev 146.1
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 18
Mean −0.003847
Std Dev 0.1905
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

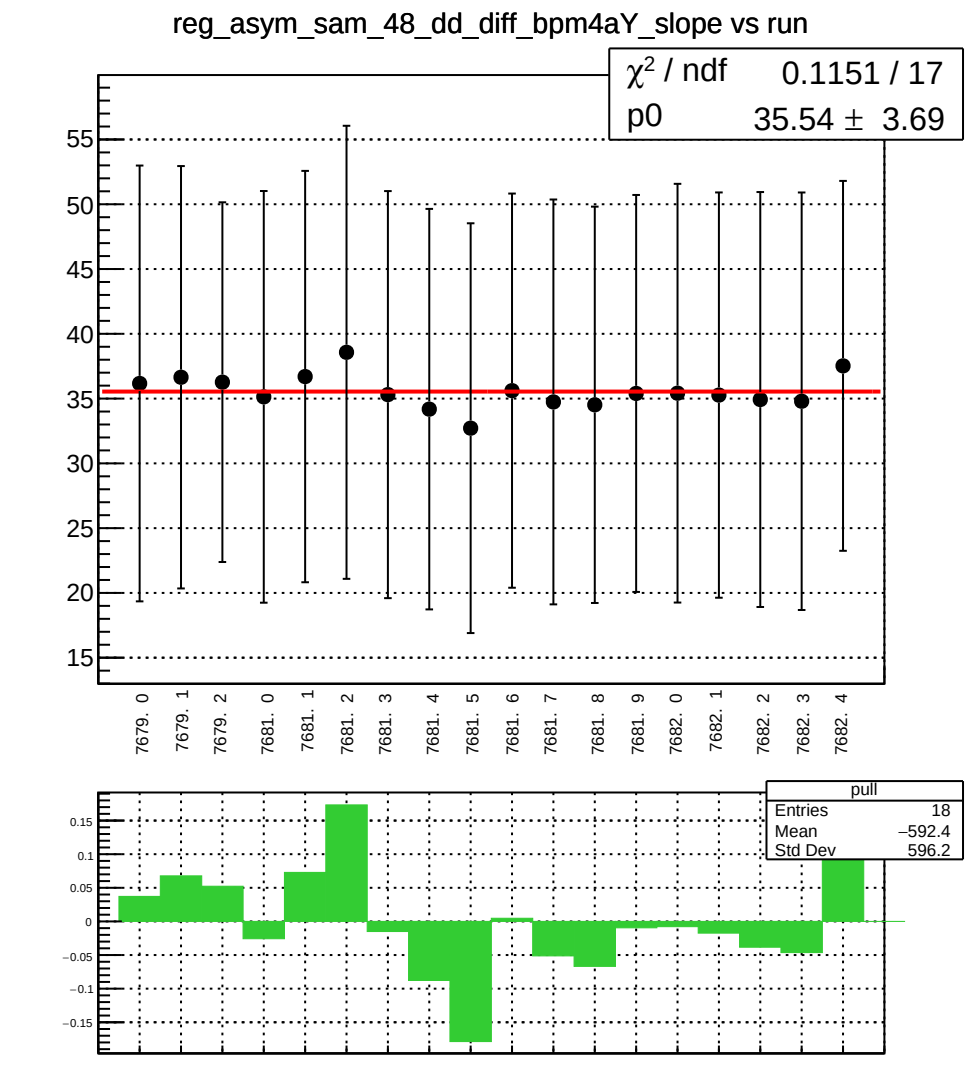

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.135 / 17
p0 114.8 ± 7.232
150
140
130
120
110
100
90
80
70
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 257.1
Std Dev 250.5
0.15
0.1
0.05
0
−0.05
−0.1
−0.15

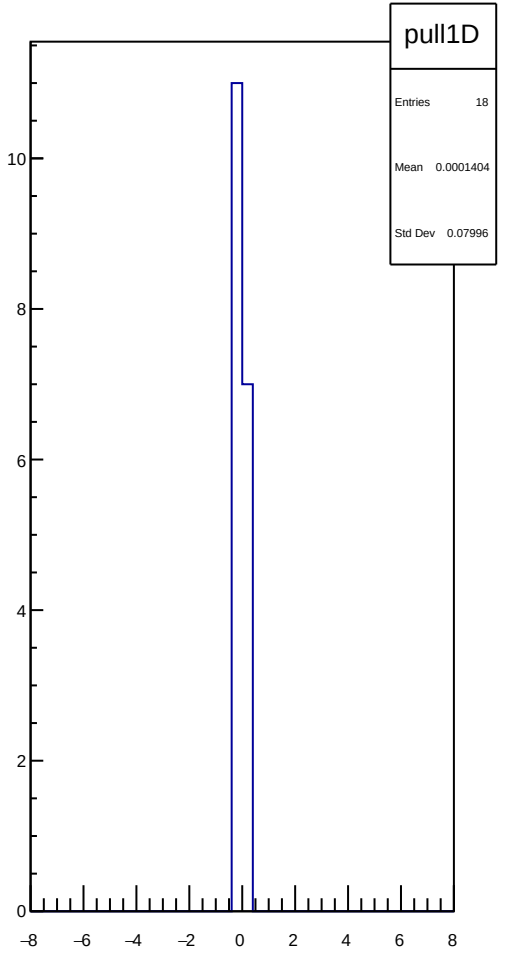

pull1D
Entries 18
Mean 0.0007845
Std Dev 0.08661
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

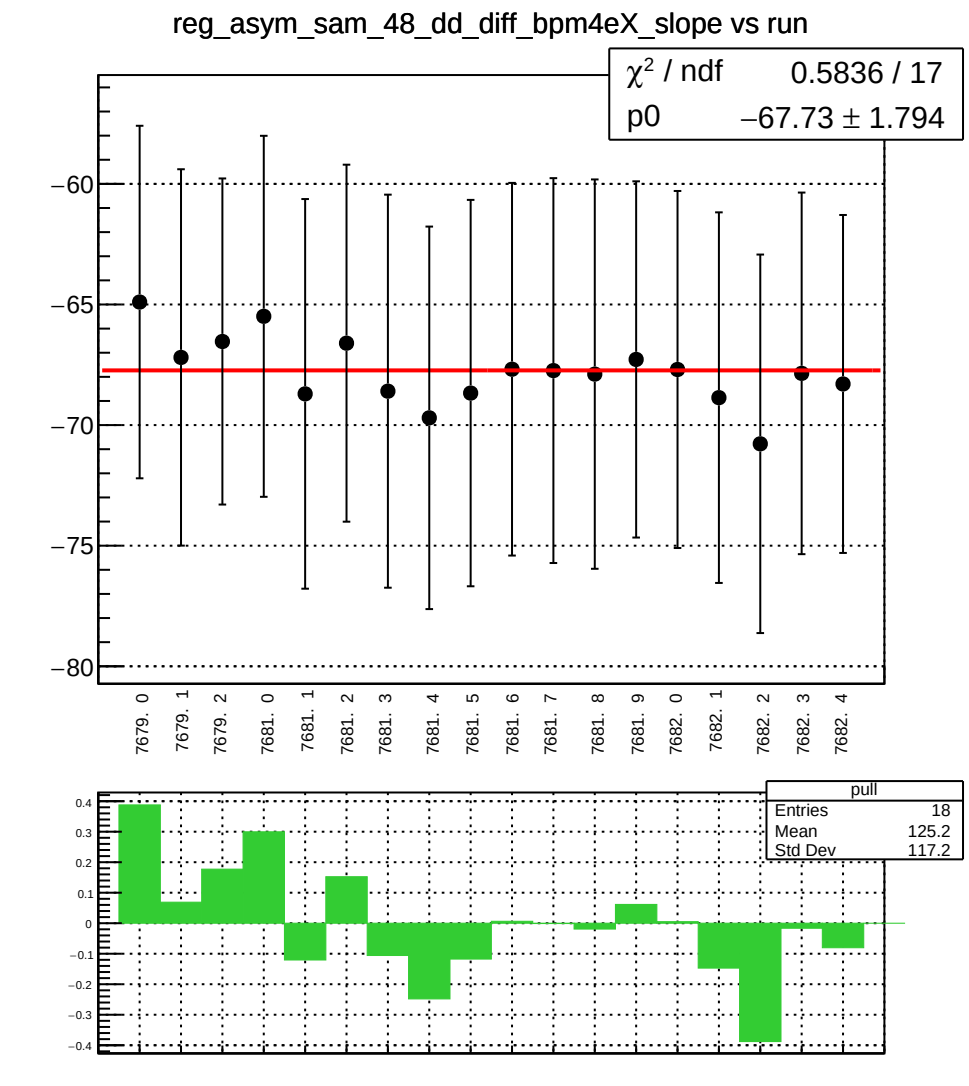

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 0.1719 / 17
p0 0.3206 ± 0.3649
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 22.43
Std Dev 16.24
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
pull1D
Entries 18
Mean 0.006274
Std Dev 0.09753
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

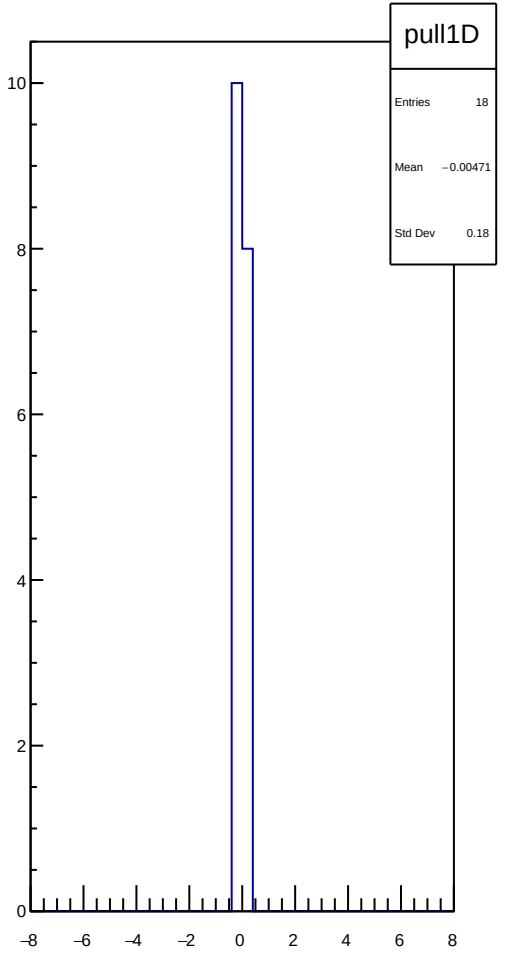

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 0.5112 / 17
p0 −10.83 ± 2.213
0
−5
−10
−15
−20
−25
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 78.58
Std Dev 71.44
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

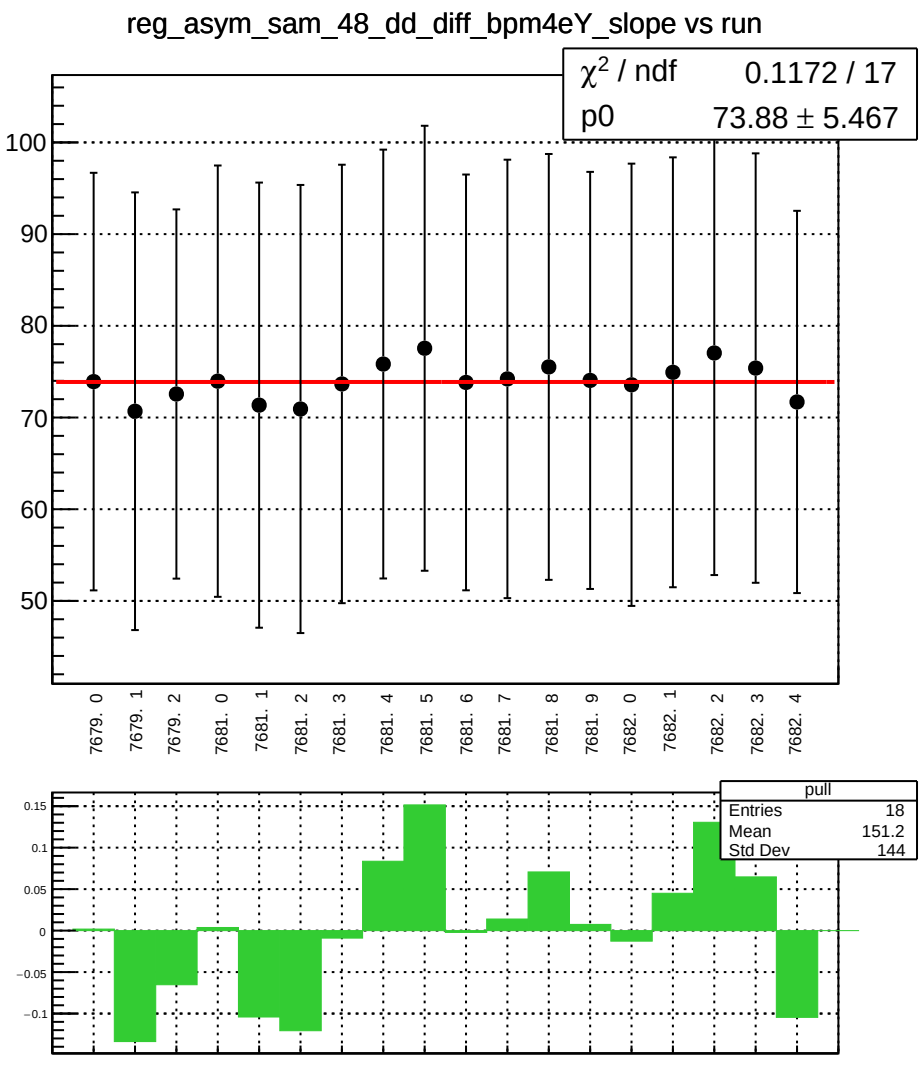

pull1D
Entries 18
Mean 0.005214
Std Dev 0.1684
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

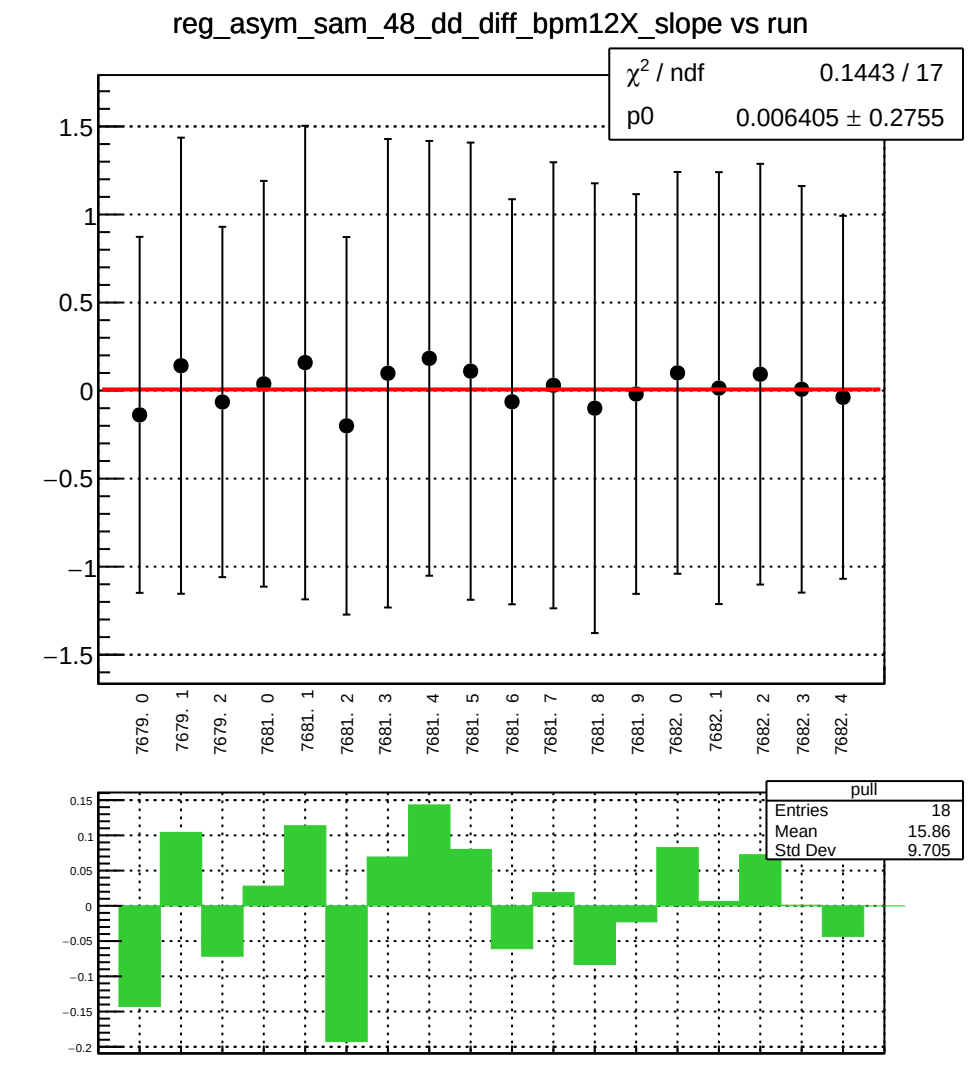

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.1151 / 17
p0 35.54 ± 3.69
55
50
45
40
35
30
25
20
15
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −592.4
Std Dev 596.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15

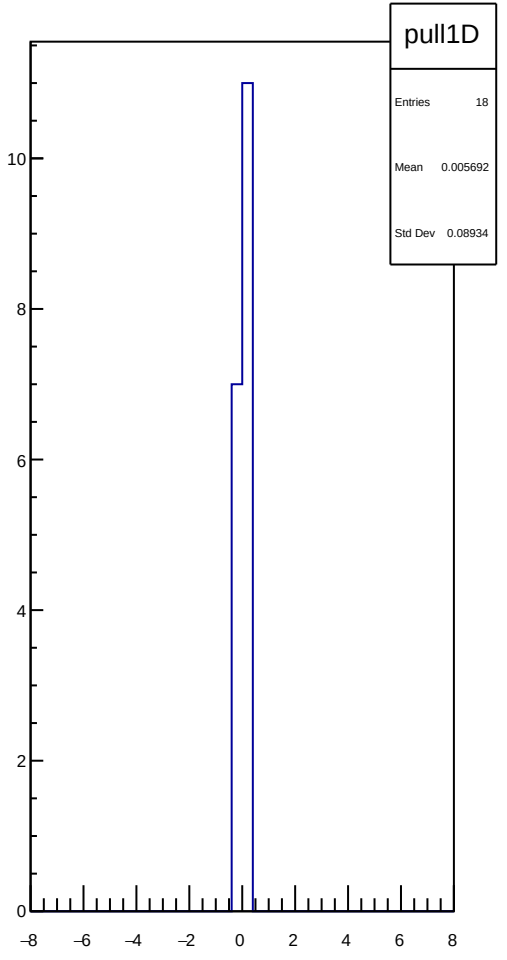

pull1D
Entries 18
Mean 0.0001404
Std Dev 0.07996
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

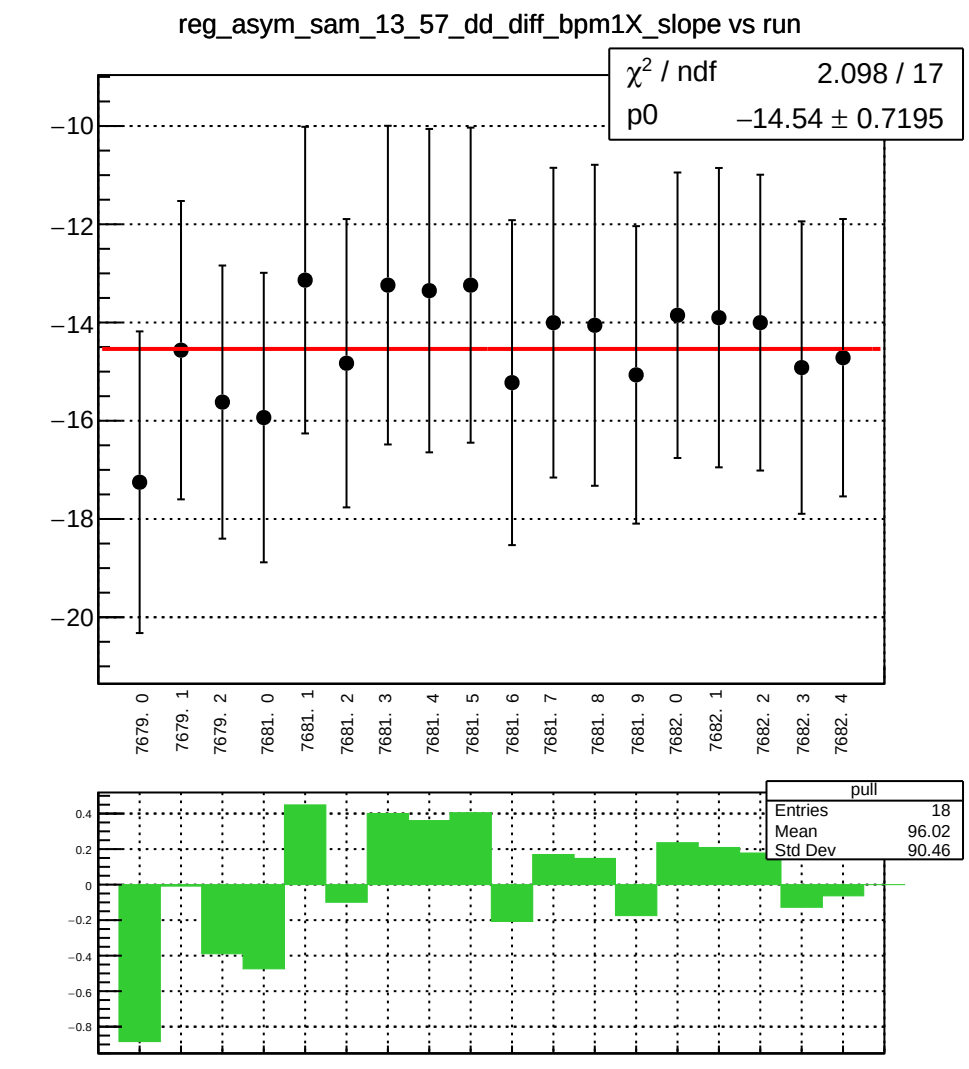

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.5836 / 17
p0 −67.73 ± 1.794
−60
−65
−70
−75
−80
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 125.2
Std Dev 117.2
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

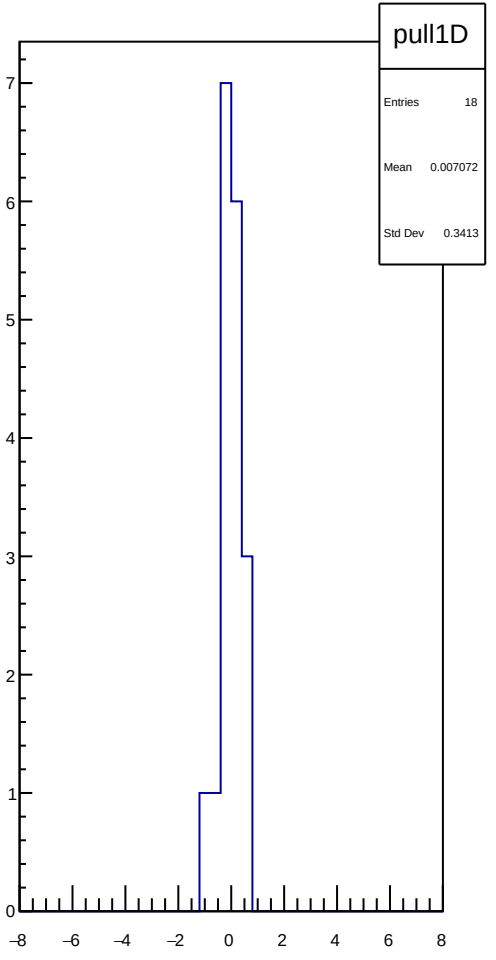

pull1D
Entries 18
Mean −0.00471
Std Dev 0.18
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

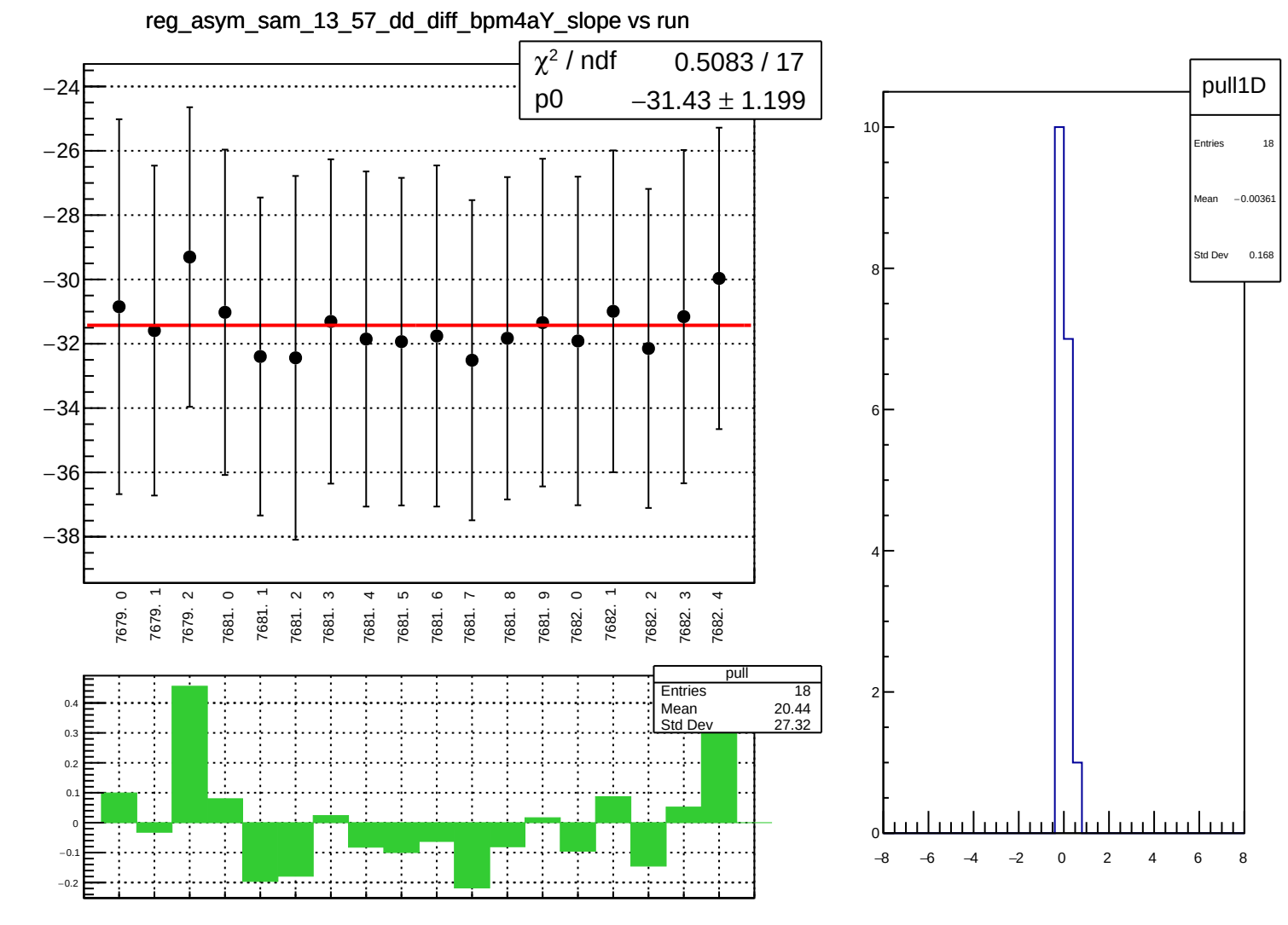

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.1172 / 17
p0 73.88 ± 5.467
100
90
80
70
60
50
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 151.2
Std Dev 144
0.15
0.1
0.05
0
−0.05
−0.1
pull1D
Entries 18
Mean 0.001157
Std Dev 0.08067
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

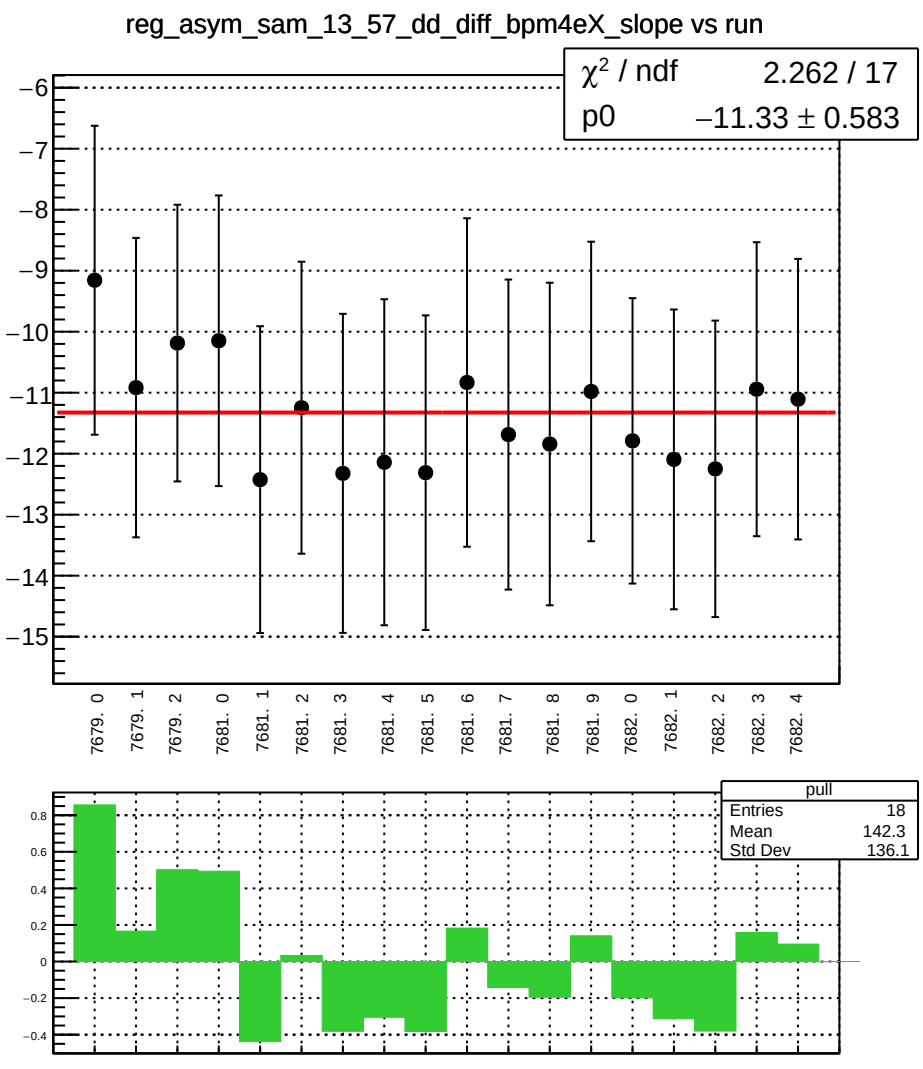

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 0.1443 / 17
p0 0.006405 ± 0.2755
1.5
1
0.5
0
−0.5
−1
−1.5
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 15.86
Std Dev 9.705
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2

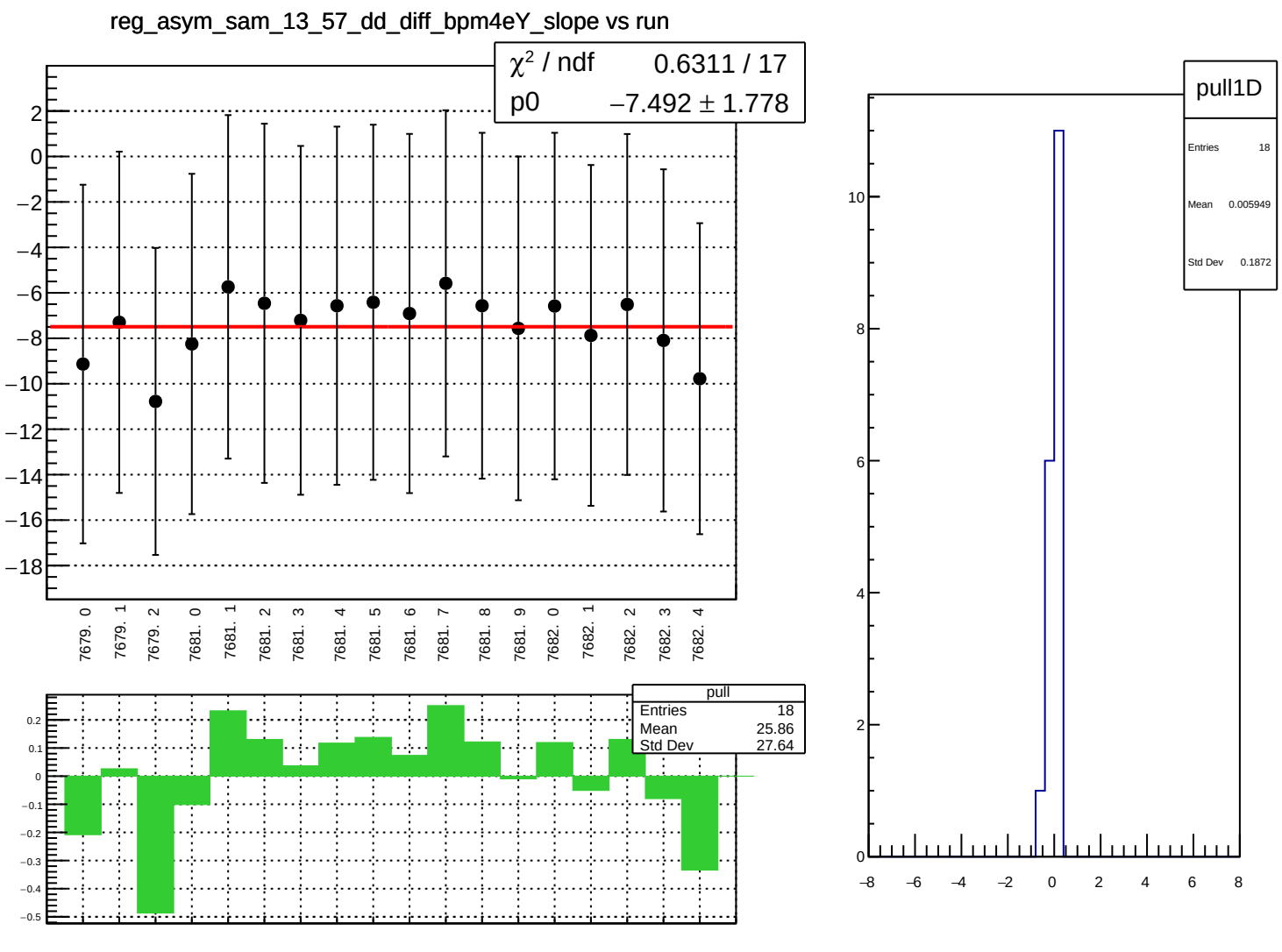

pull1D
Entries 18
Mean 0.005692
Std Dev 0.08934
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

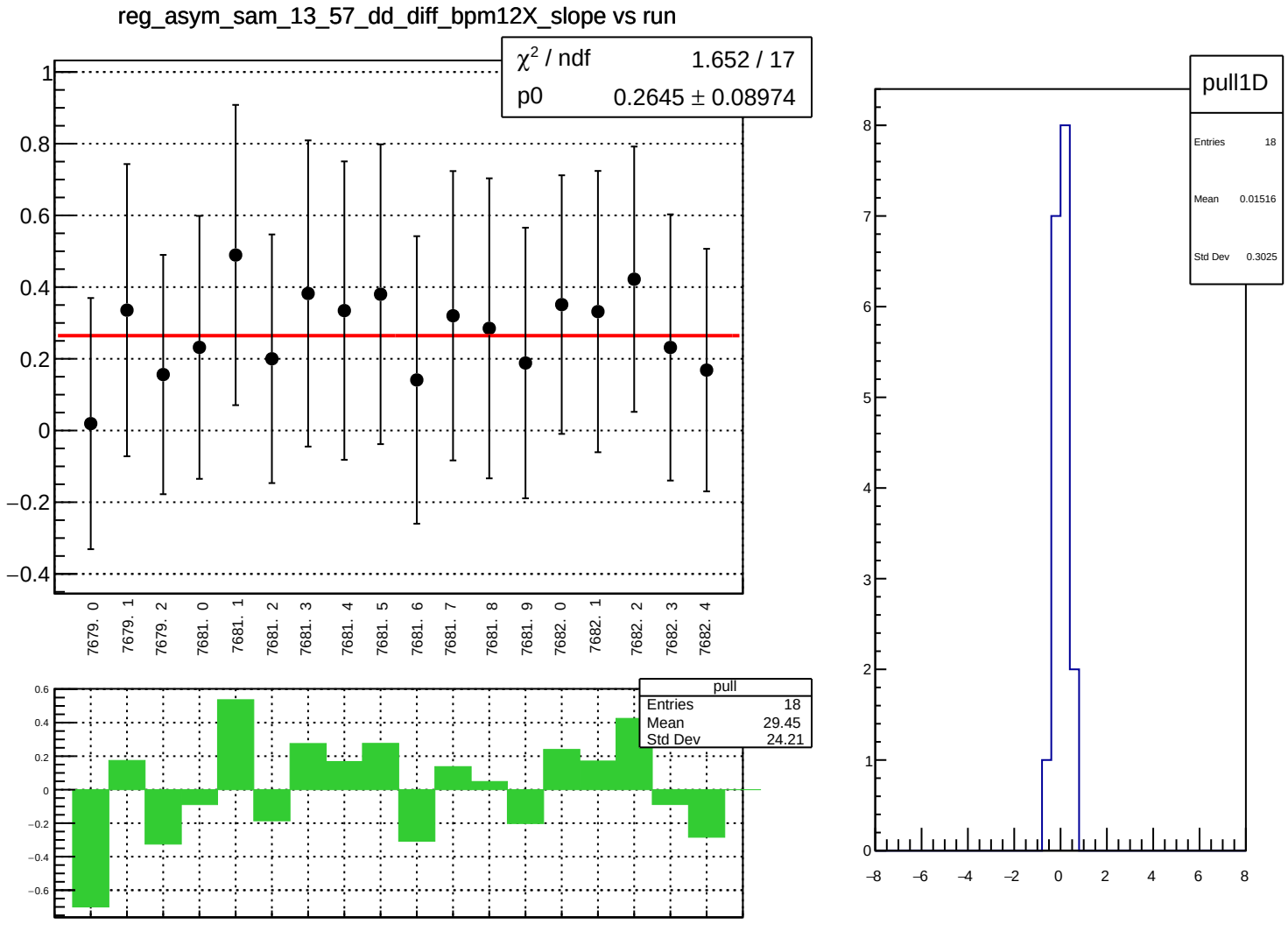

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 2.098 / 17
p0 −14.54 ± 0.7195
−10
−12
−14
−16
−18
−20
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 96.02
Std Dev 90.46
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

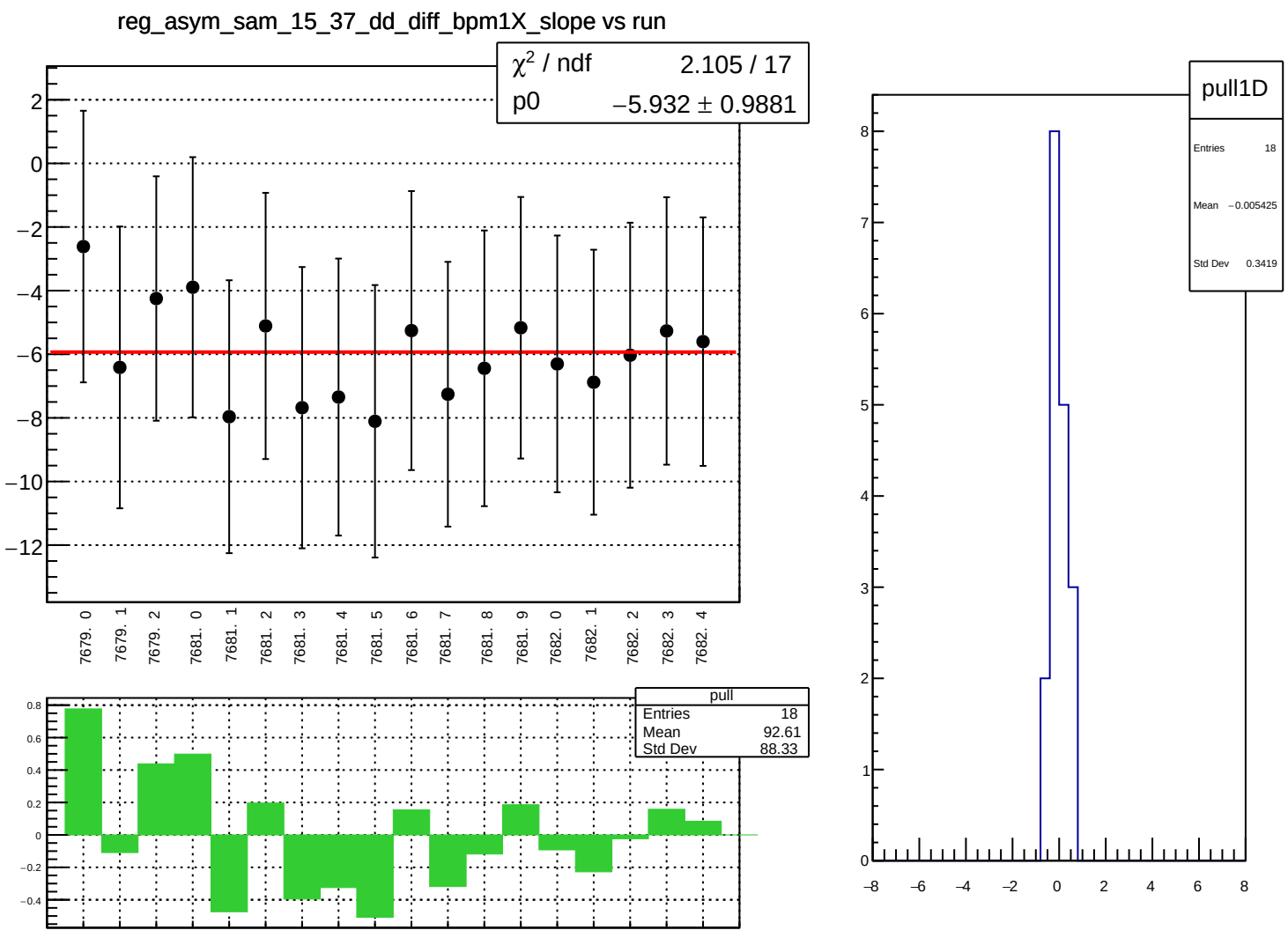

pull1D
Entries 18
Mean 0.007072
Std Dev 0.3413
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

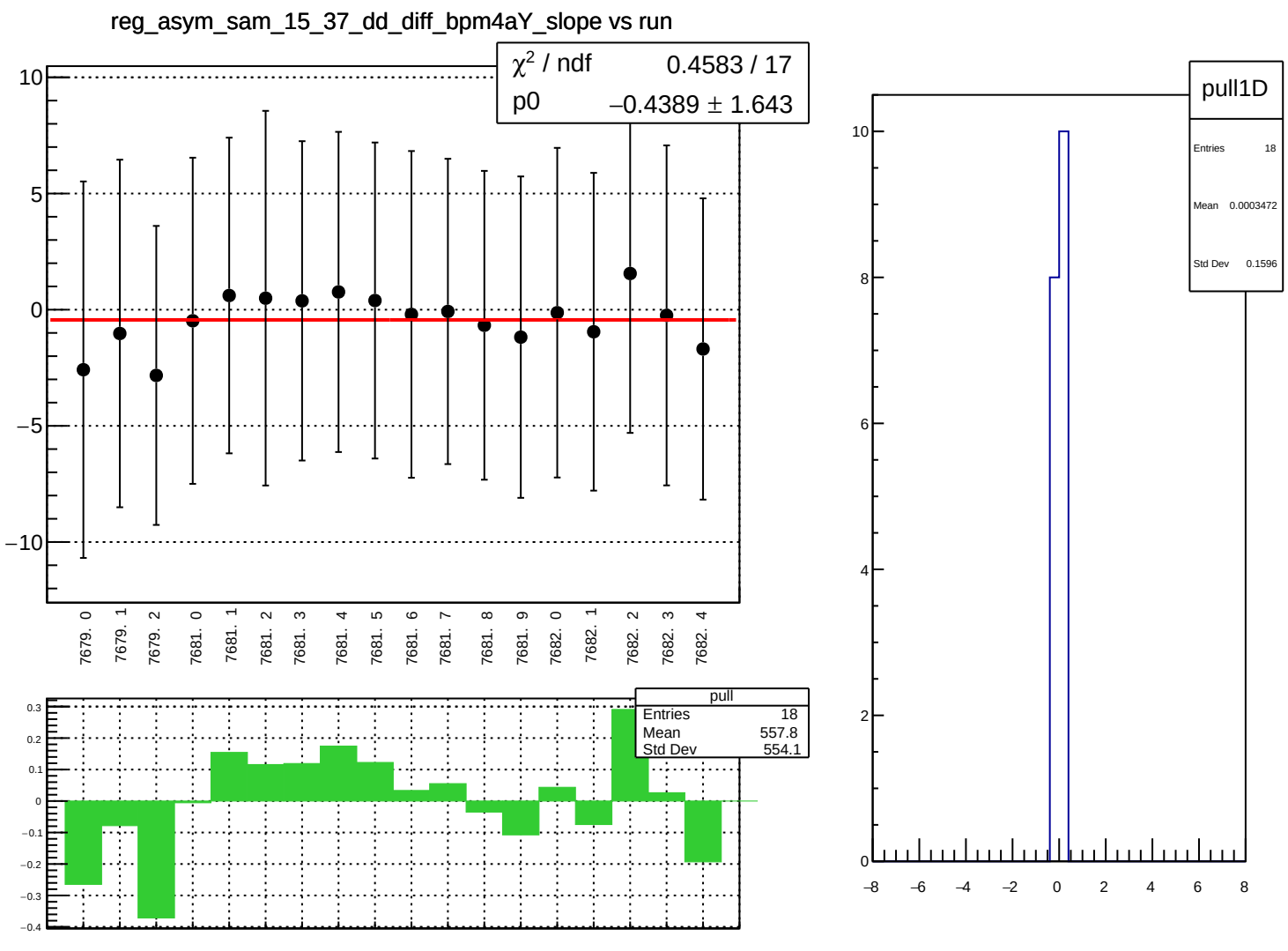

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.5083 / 17
p0 −31.43 ± 1.199
−24
−26
−28
−30
−32
−34
−36
−38
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 20.44
Std Dev 27.32
0.4
0.3
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 18
Mean −0.00361
Std Dev 0.168
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

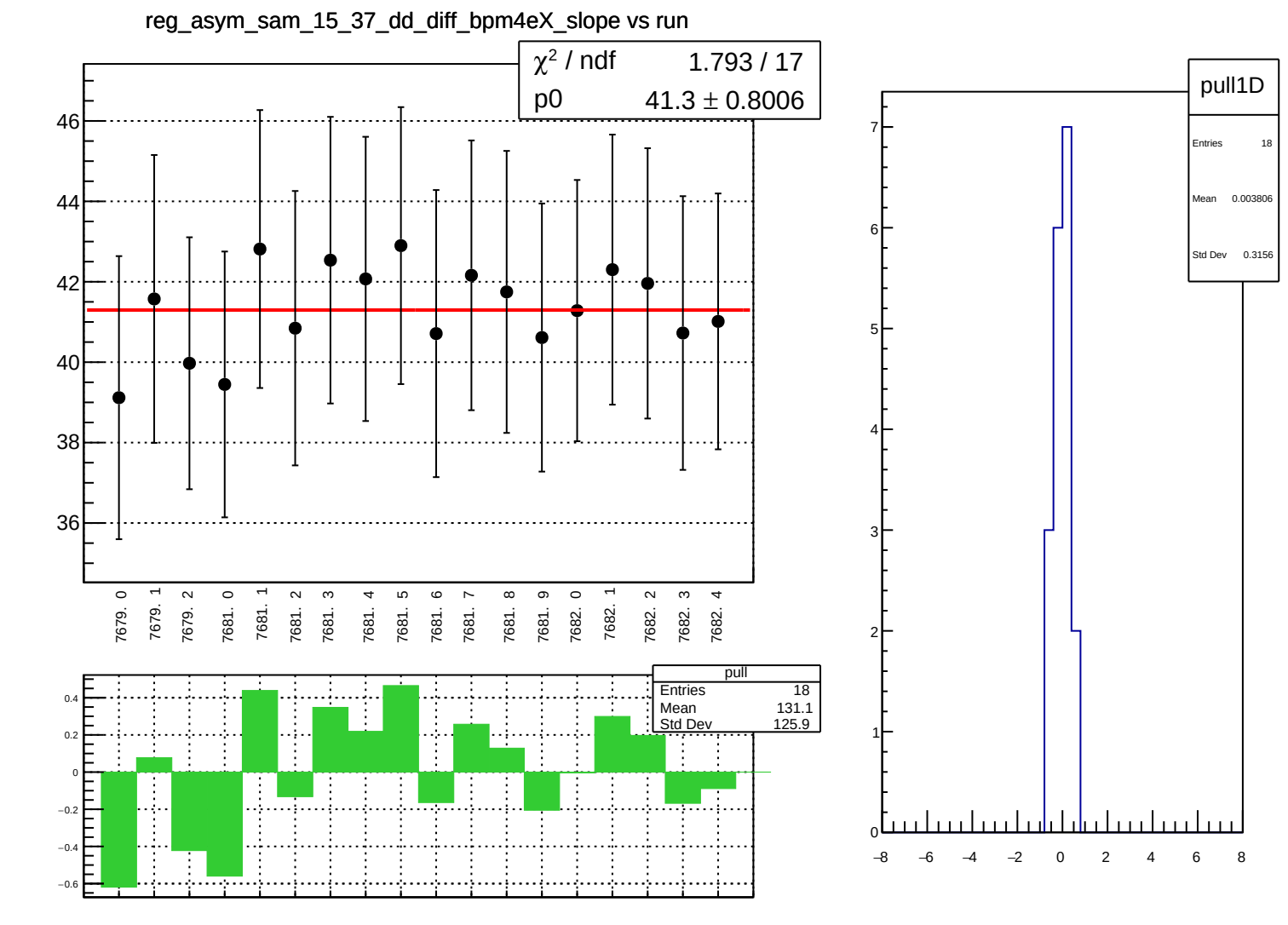

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.262 / 17
p0 −11.33 ± 0.583
−6
−7
−8
−9
−10
−11
−12
−13
−14
−15
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 142.3
Std Dev 136.1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 18
Mean −0.005941
Std Dev 0.3544
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

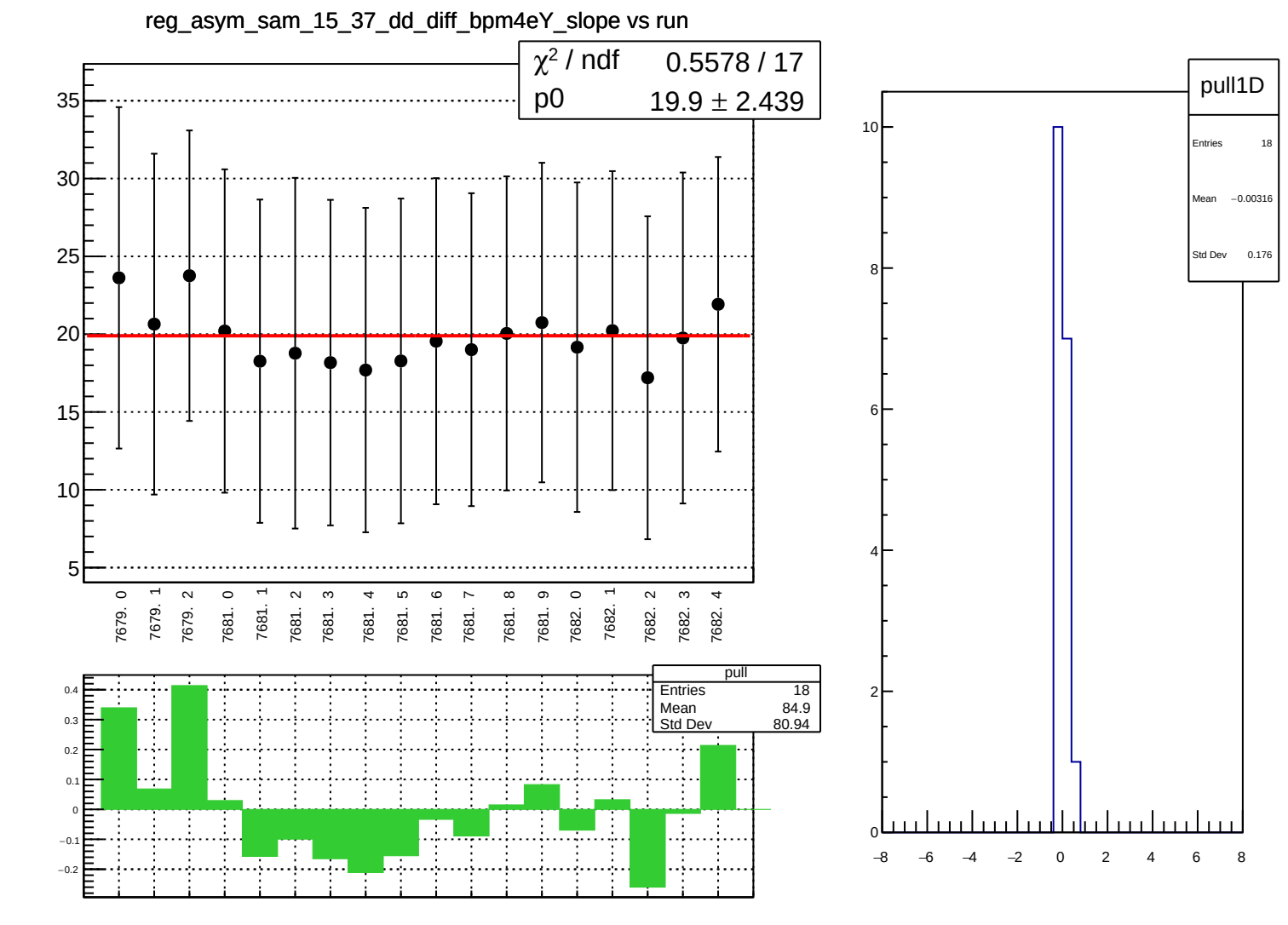

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.6311 / 17
p0 −7.492 ± 1.778
2
0
−2
−4
−6
−8
−10
−12
−14
−16
−18
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 25.86
Std Dev 27.64
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
pull1D
Entries 18
Mean 0.005949
Std Dev 0.1872
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

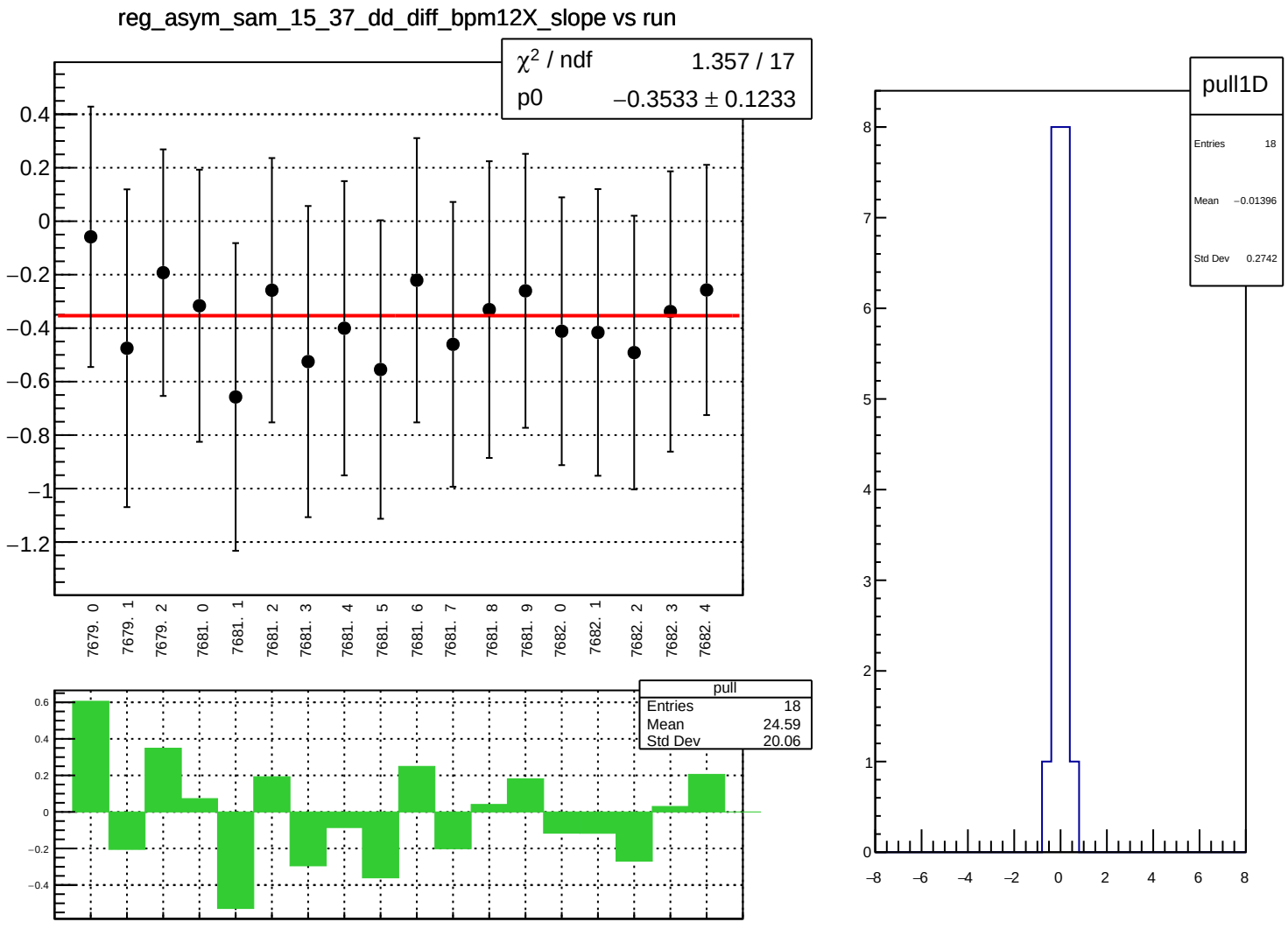

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 1.652 / 17
p0 0.2645 ± 0.08974
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 29.45
Std Dev 24.21
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 18
Mean 0.01516
Std Dev 0.3025
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

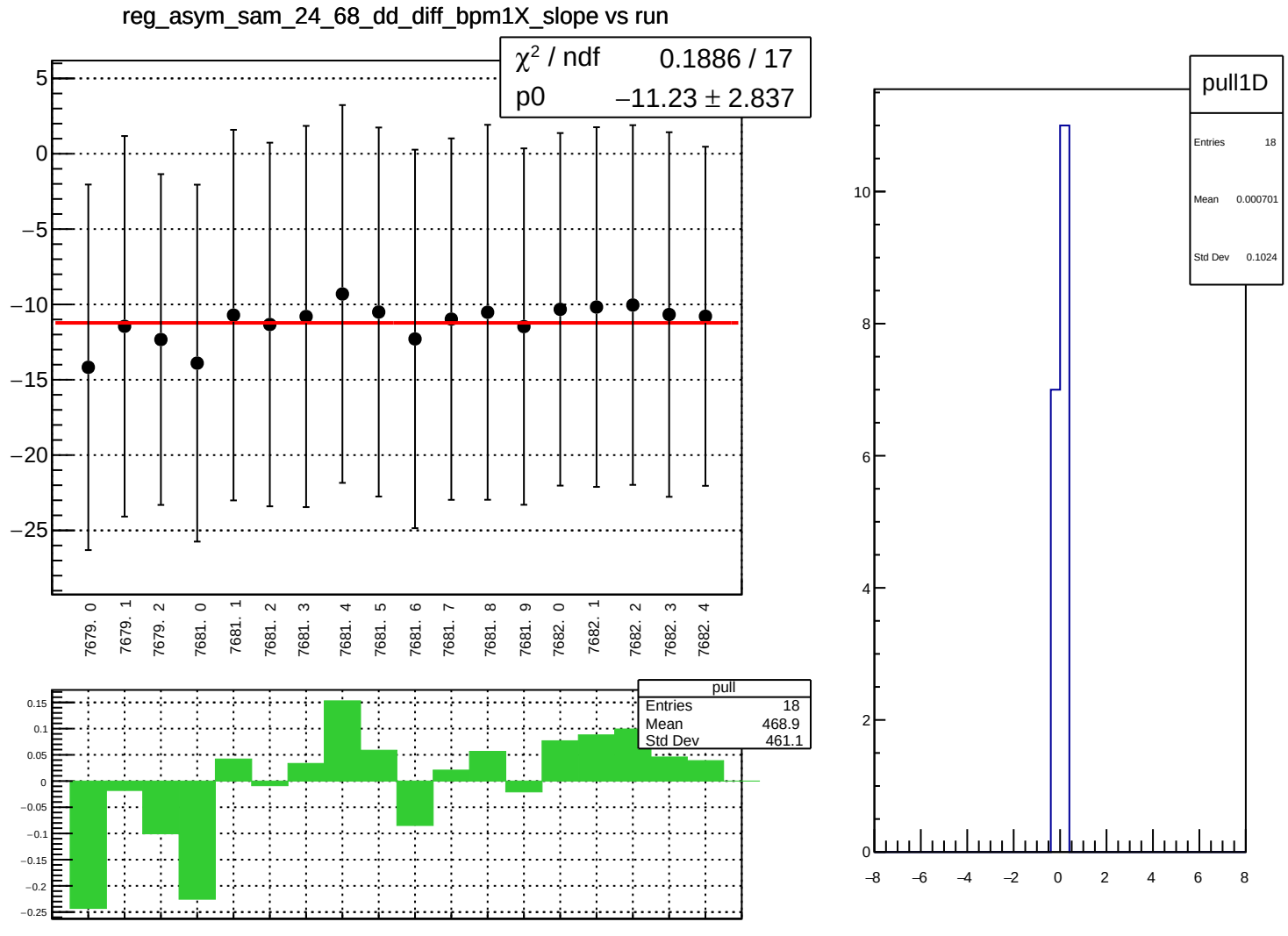

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 2.105 / 17
p0 −5.932 ± 0.9881
2
0
−2
−4
−6
−8
−10
−12
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 92.61
Std Dev 88.33
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 18
Mean −0.005425
Std Dev 0.3419
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

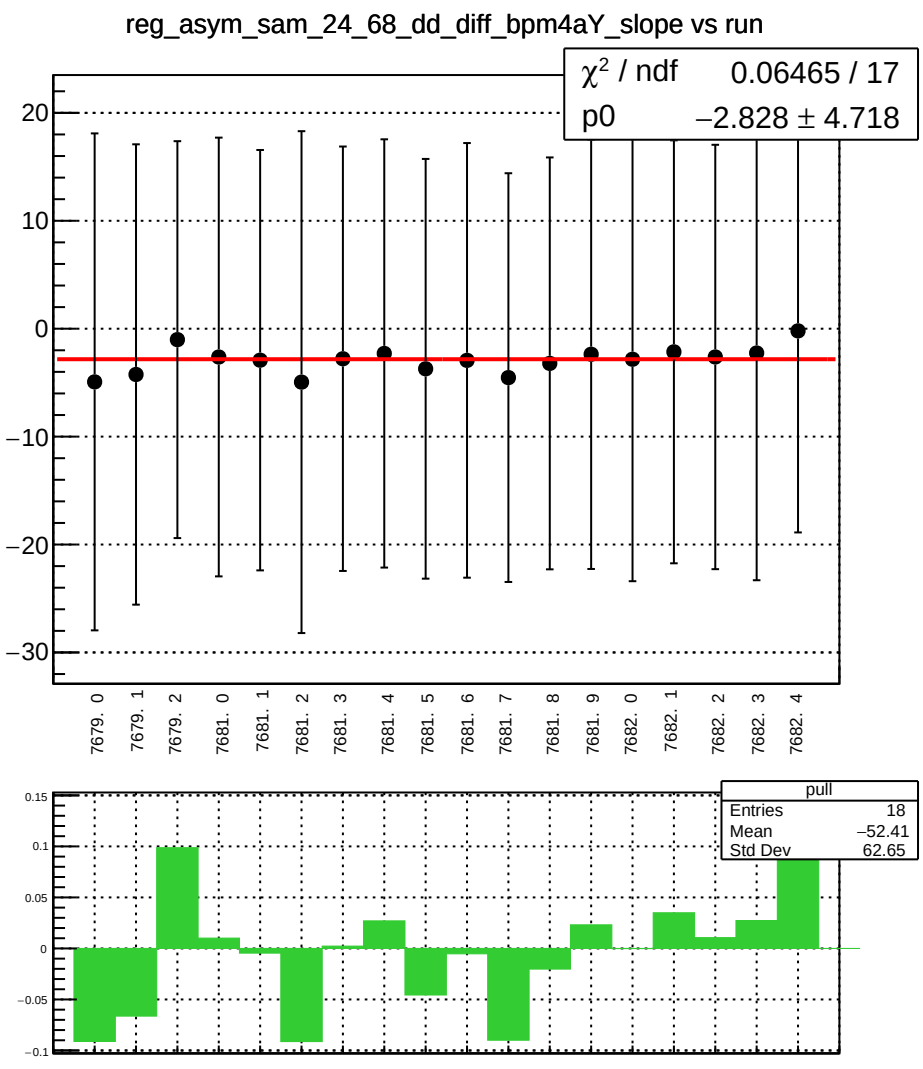

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.4583 / 17
p0 −0.4389 ± 1.643
10
5
0
−5
−10
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 557.8
Std Dev 554.1
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 18
Mean 0.0003472
Std Dev 0.1596
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

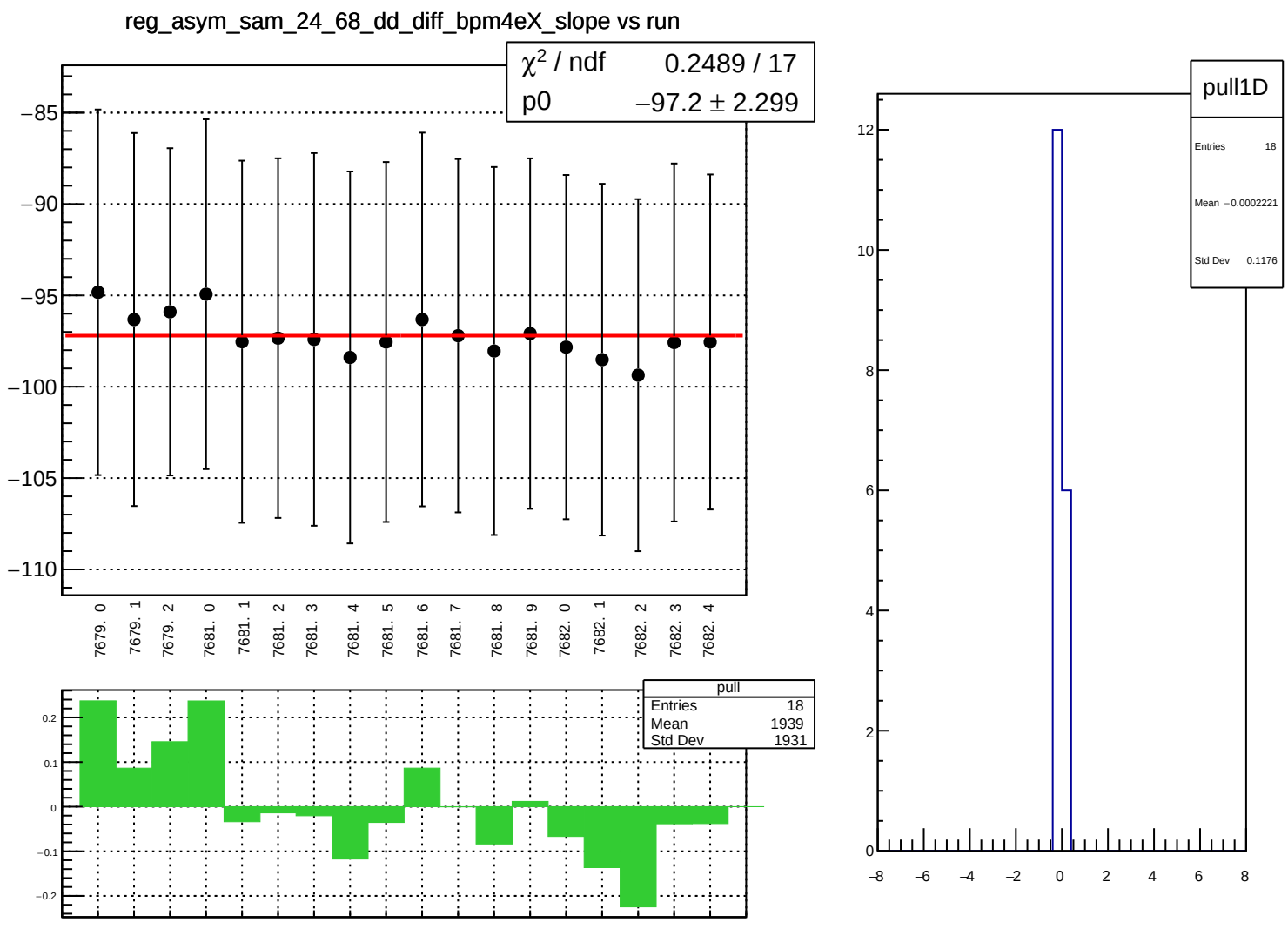

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.793 / 17
p0 41.3 ± 0.8006
46
44
42
40
38
36
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 131.1
Std Dev 125.9
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 18
Mean 0.003806
Std Dev 0.3156
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

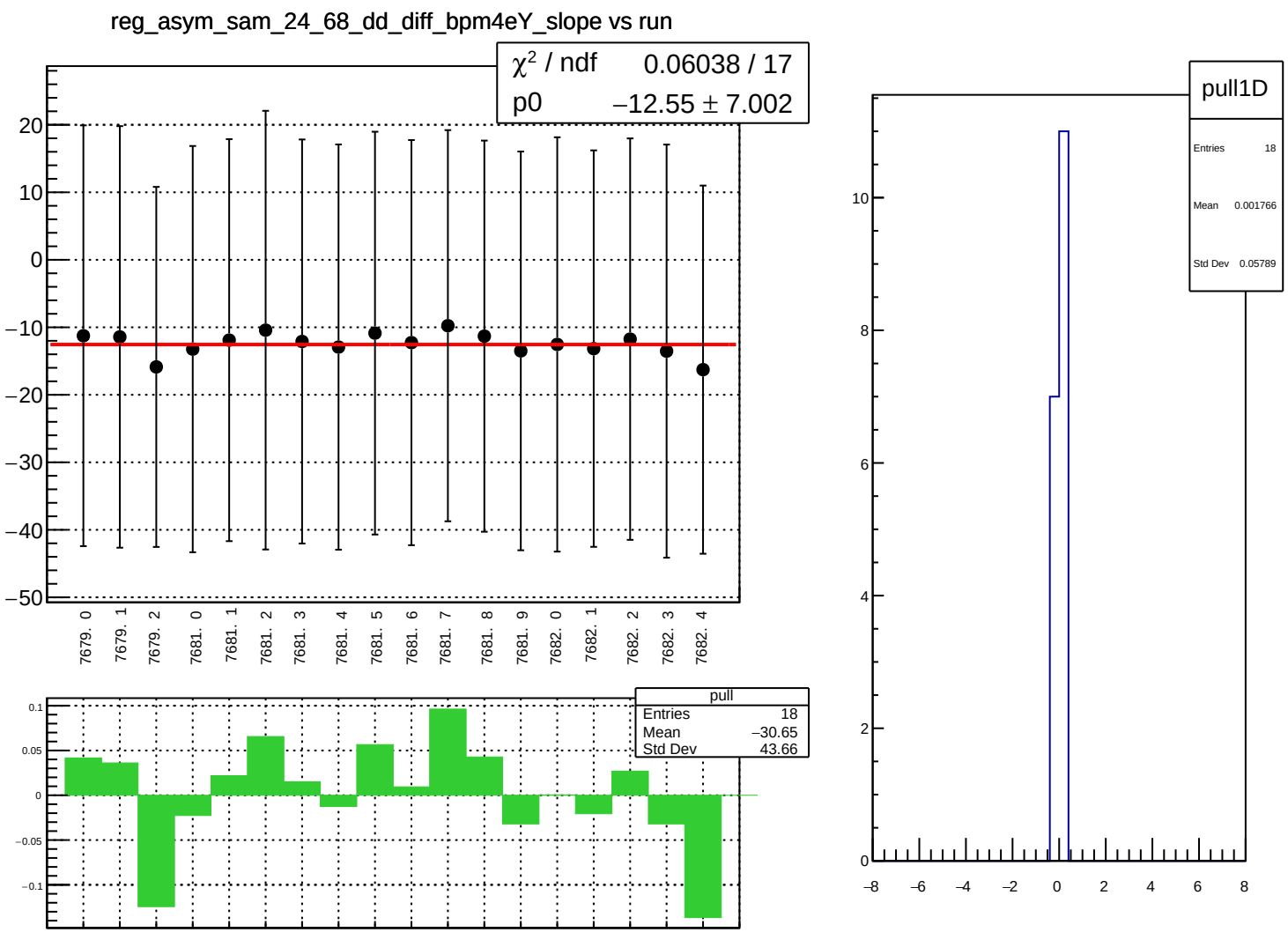

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.5578 / 17
p0 19.9 ± 2.439
35
30
25
20
15
10
5
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 84.9
Std Dev 80.94
0.4
0.3
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 18
Mean −0.00316
Std Dev 0.176
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

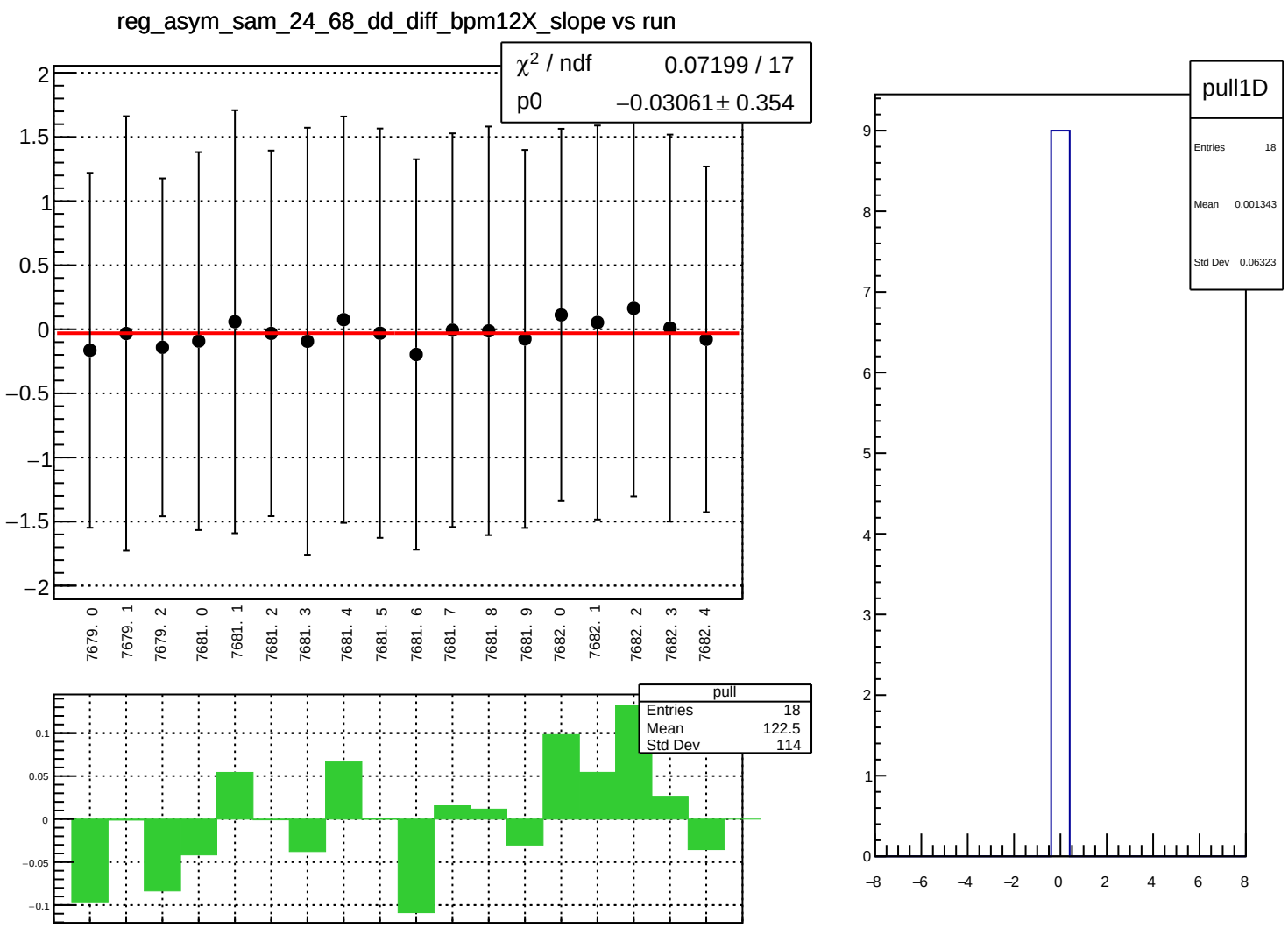

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 1.357 / 17
p0 −0.3533 ± 0.1233
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 24.59
Std Dev 20.06
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 18
Mean −0.01396
Std Dev 0.2742
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

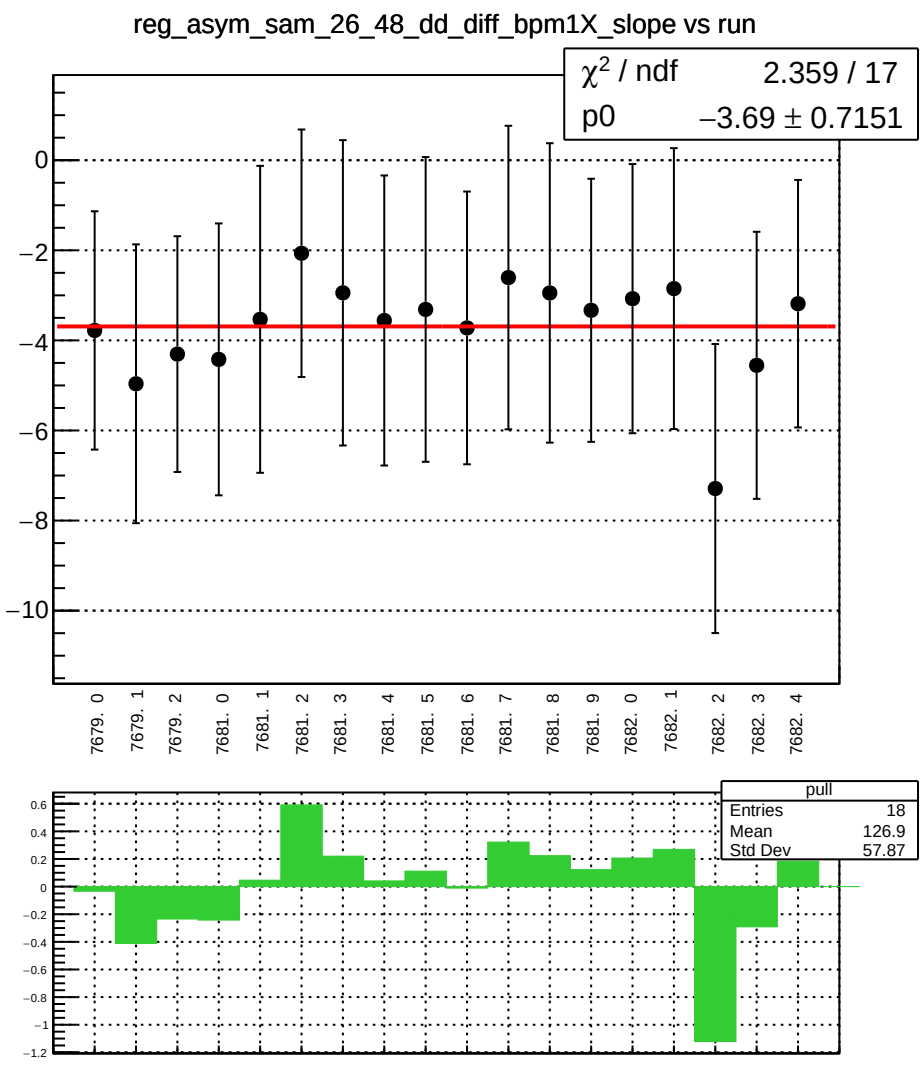

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 0.1886 / 17
p0 −11.23 ± 2.837
5
0
−5
−10
−15
−20
−25
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 468.9
Std Dev 461.1
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
−0.25
pull1D
Entries 18
Mean 0.000701
Std Dev 0.1024
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

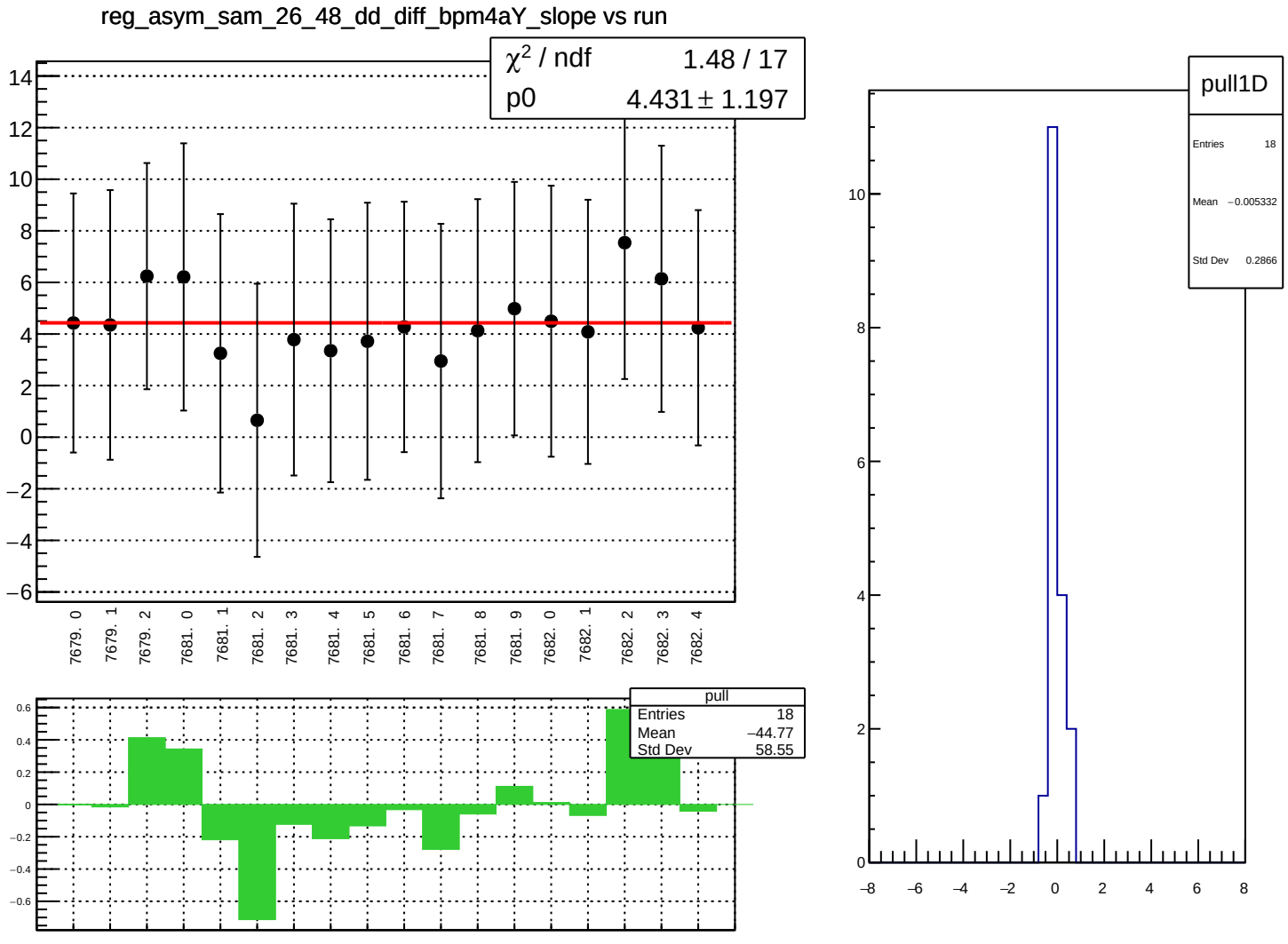

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.06465 / 17
p0 −2.828 ± 4.718
20
10
0
−10
−20
−30
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −52.41
Std Dev 62.65
0.15
0.1
0.05
0
−0.05
−0.1
pull1D
Entries 18
Mean −0.002213
Std Dev 0.05989
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

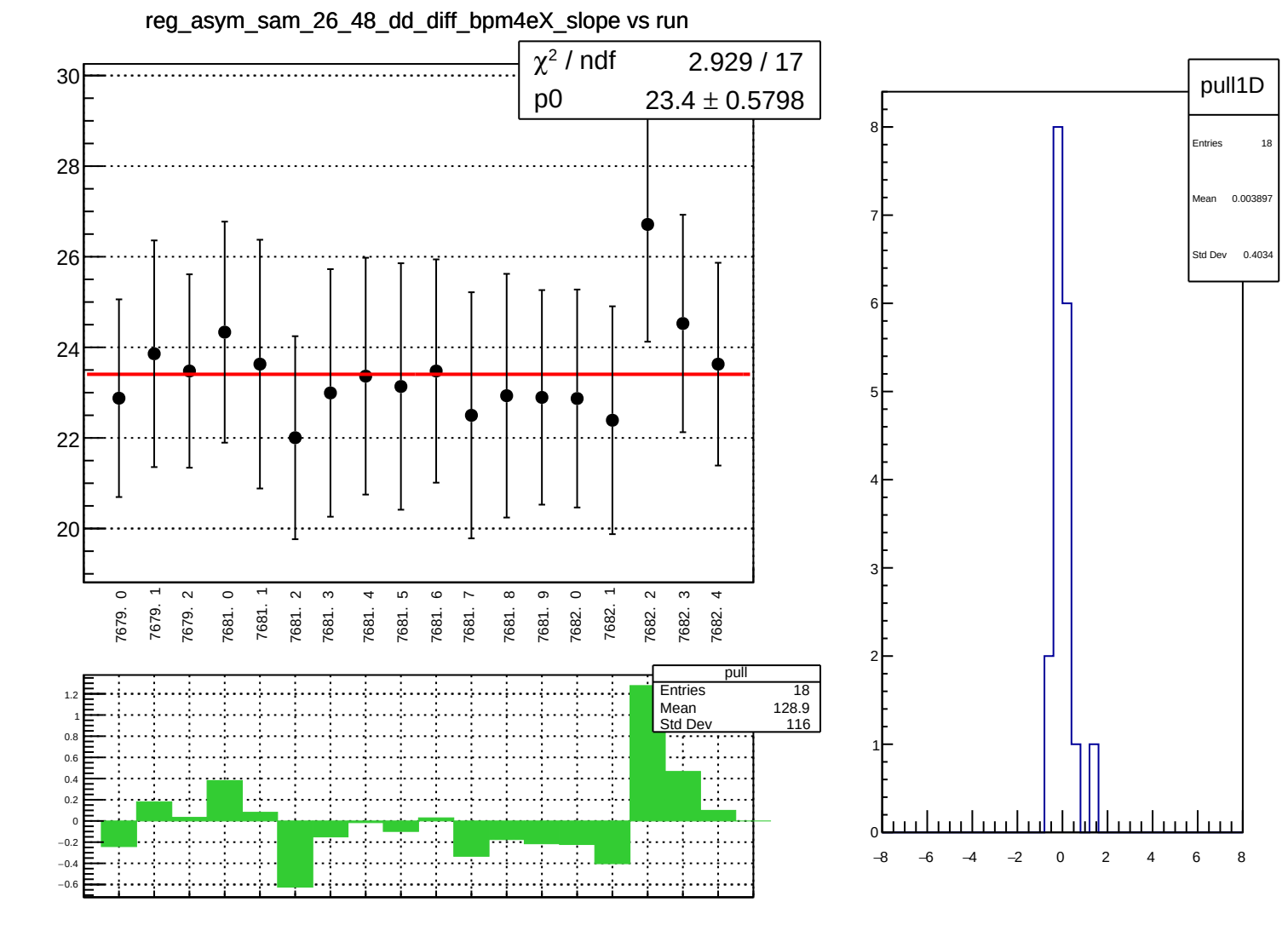

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.2489 / 17
p0 −97.2 ± 2.299
−85
−90
−95
−100
−105
−110
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 1939
Std Dev 1931
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 18
Mean −0.0002221
Std Dev 0.1176
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

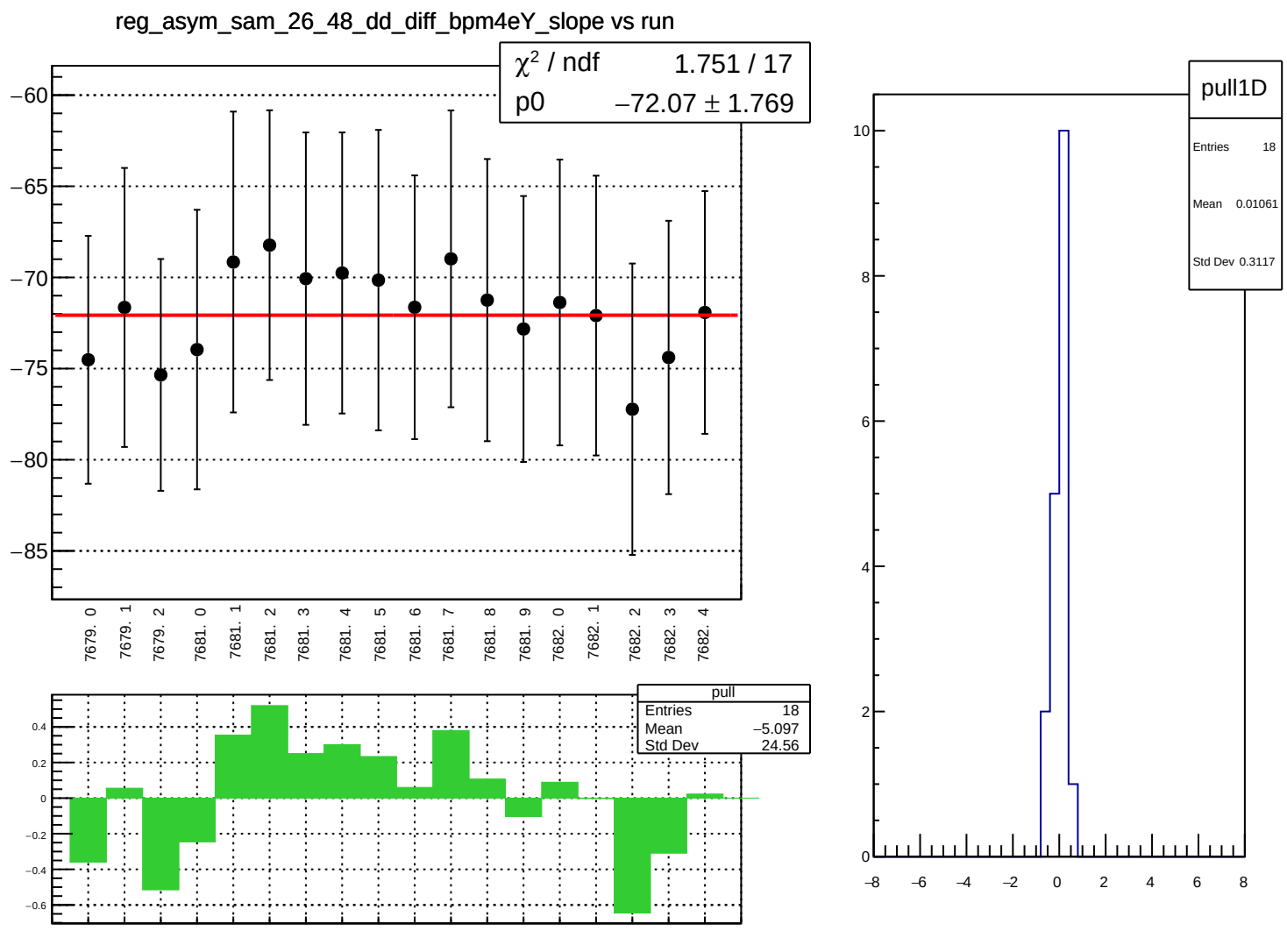

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.06038 / 17
p0 −12.55 ± 7.002
20
10
0
−10
−20
−30
−40
−50
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −30.65
Std Dev 43.66
0.1
0.05
0
−0.05
−0.1
pull1D
Entries 18
Mean 0.001766
Std Dev 0.05789
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

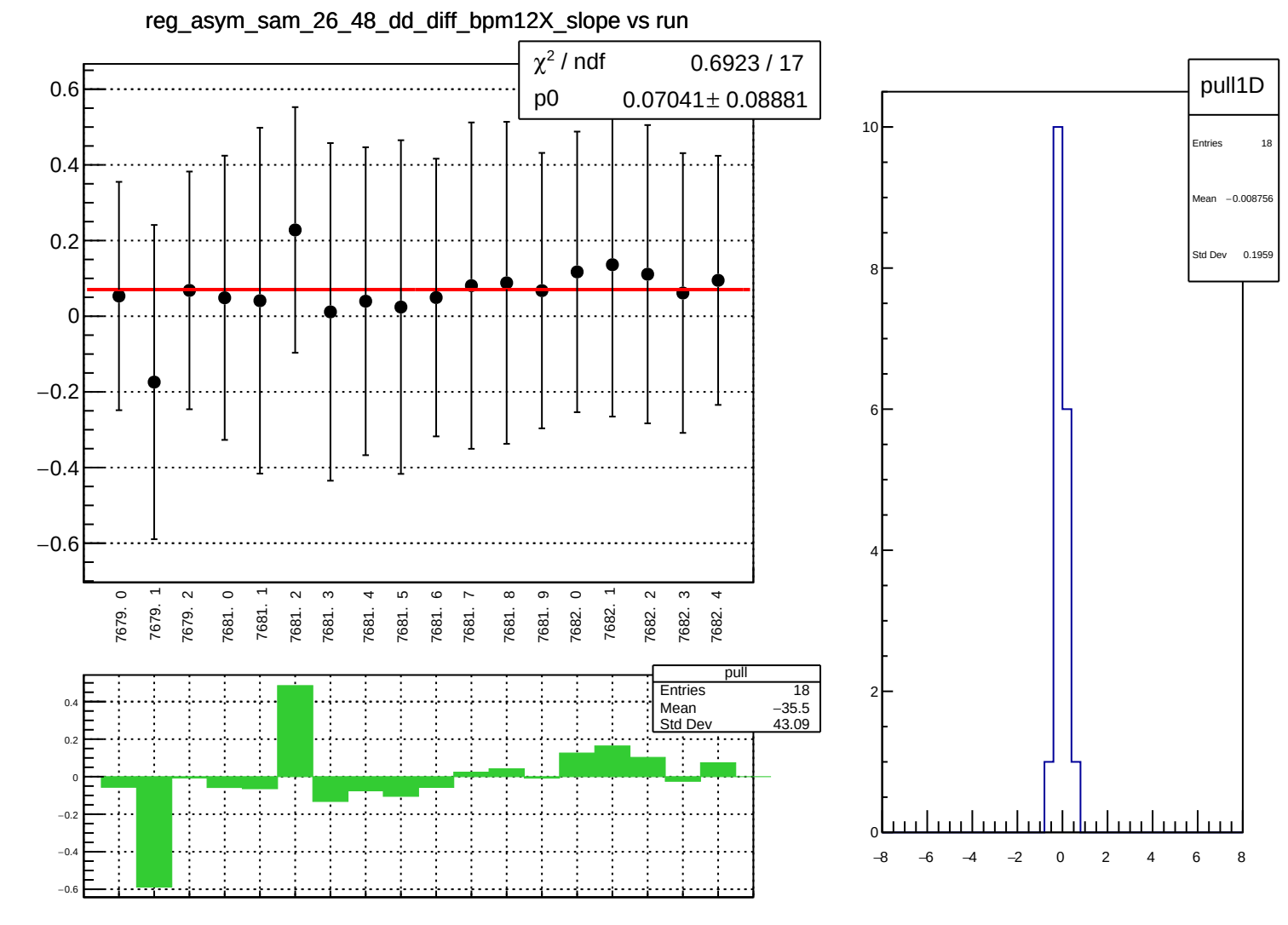

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 0.07199 / 17
p0 −0.03061 ± 0.354
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 122.5
Std Dev 114
pull1D
Entries 18
Mean 0.001343
Std Dev 0.06323

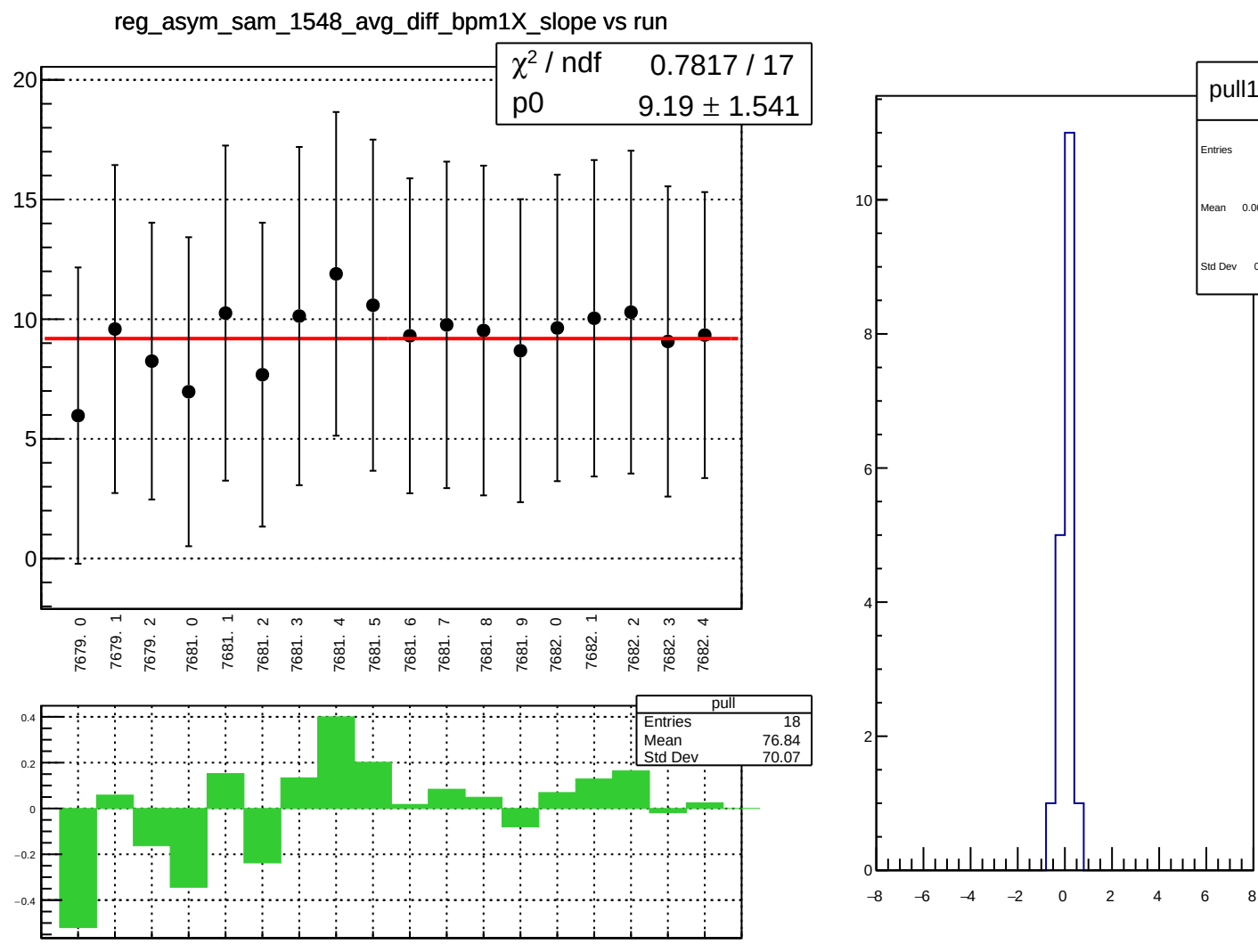

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 2.359 / 17
p0 −3.69 ± 0.7151
0
−2
−4
−6
−8
−10
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 126.9
Std Dev 57.87
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 18
Mean −0.0003562
Std Dev 0.362
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

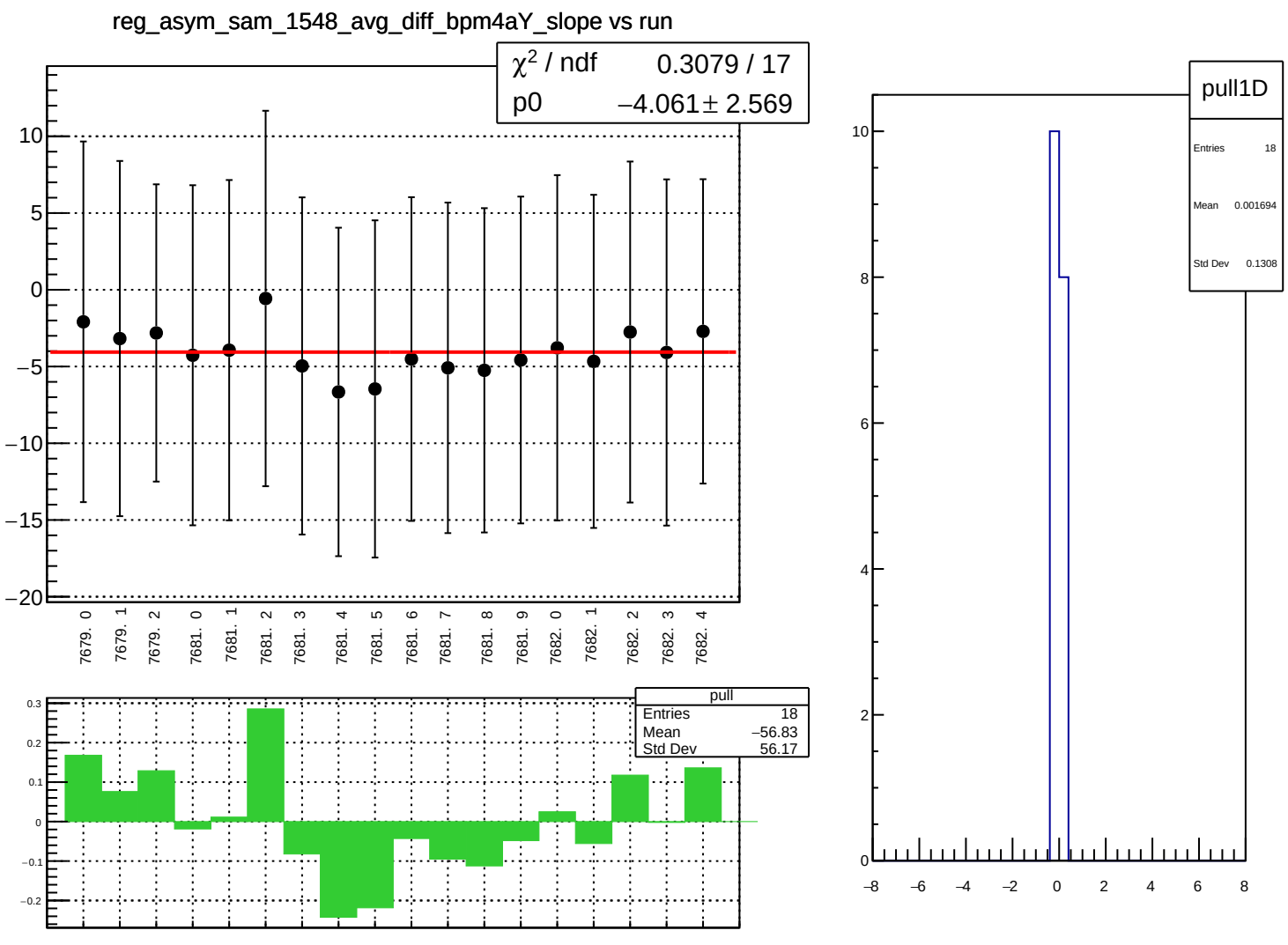

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.48 / 17
p0 4.431 ± 1.197
14
12
10
8
6
4
2
0
−2
−4
−6
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −44.77
Std Dev 58.55
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 18
Mean −0.005332
Std Dev 0.2866
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

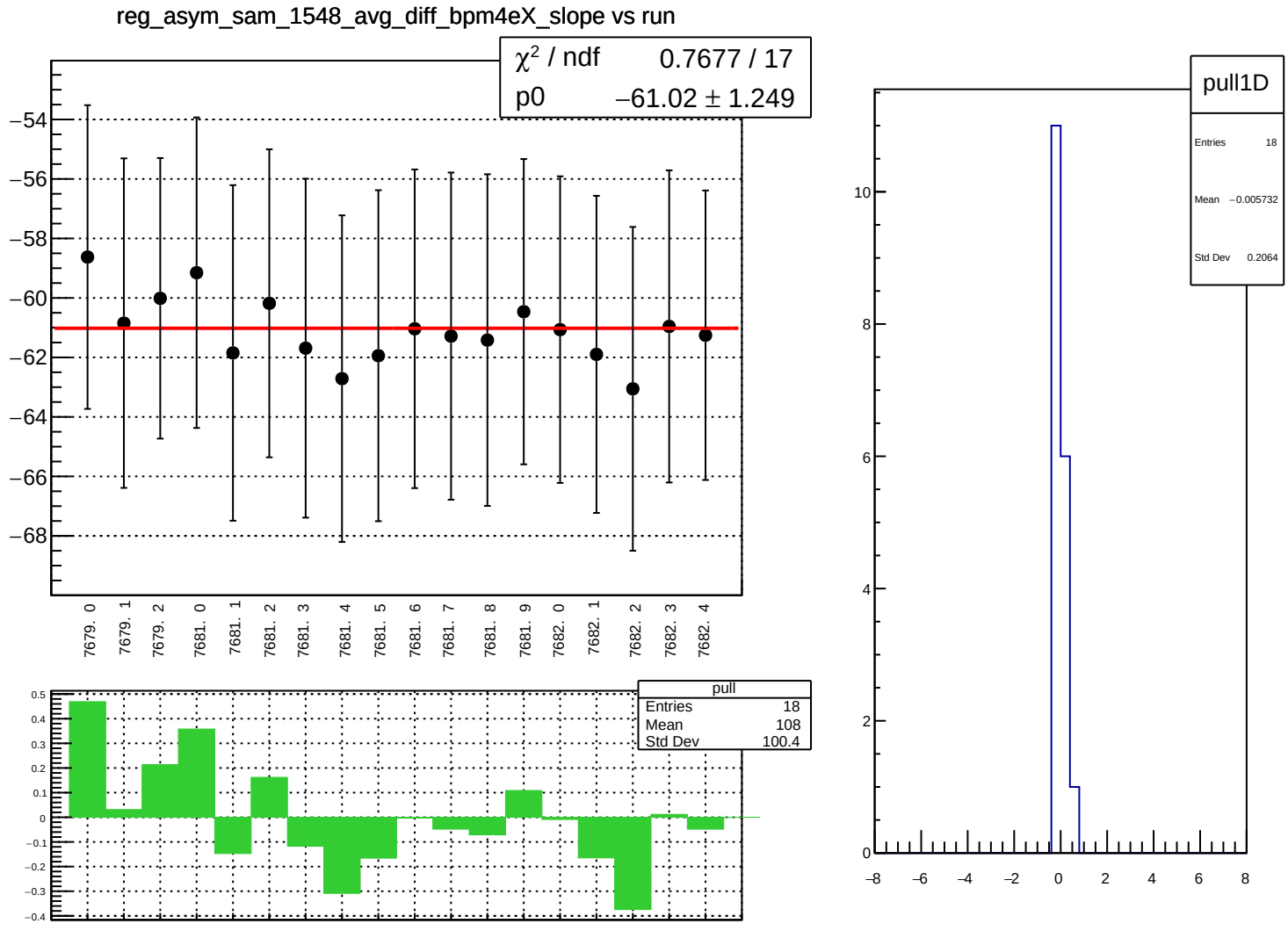

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.929 / 17
p0 23.4 ± 0.5798
30
28
26
24
22
20
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 128.9
Std Dev 116
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 18
Mean 0.003897
Std Dev 0.4034
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

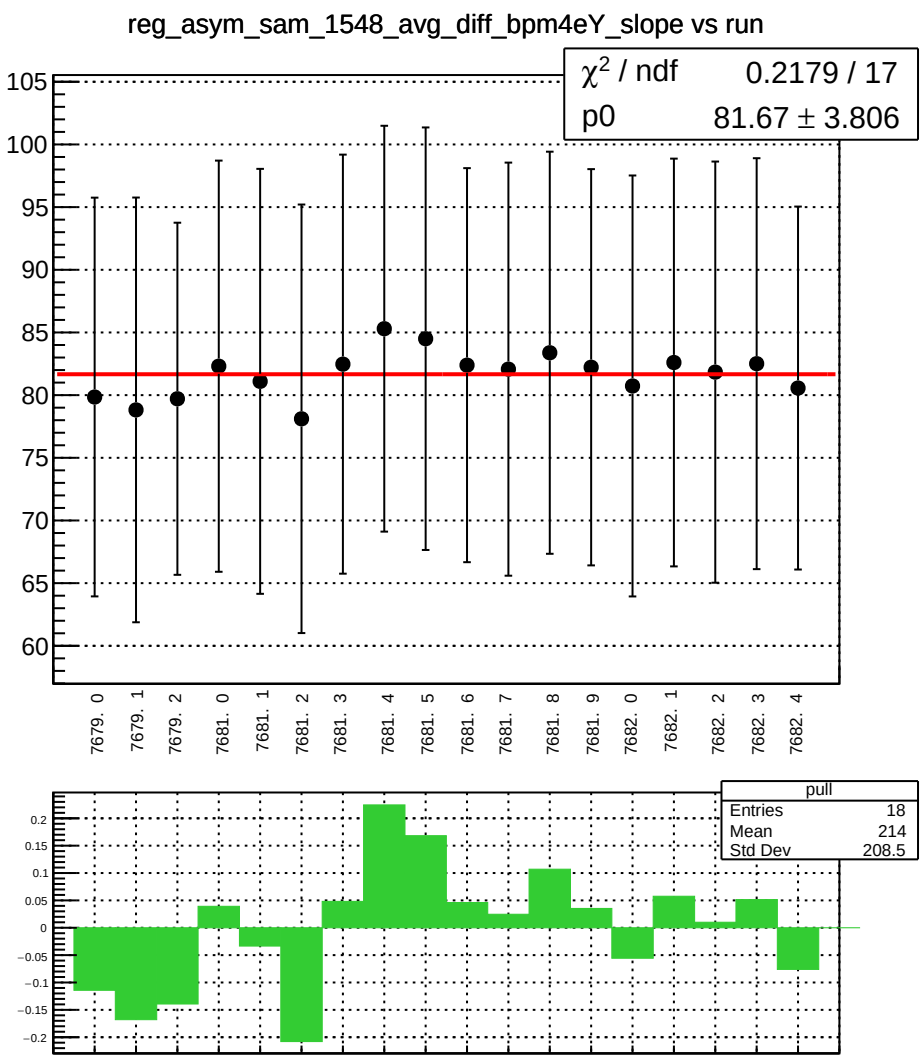

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.751 / 17
p0 −72.07 ± 1.769
−60
−65
−70
−75
−80
−85
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −5.097
Std Dev 24.56
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 18
Mean 0.01061
Std Dev 0.3117
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

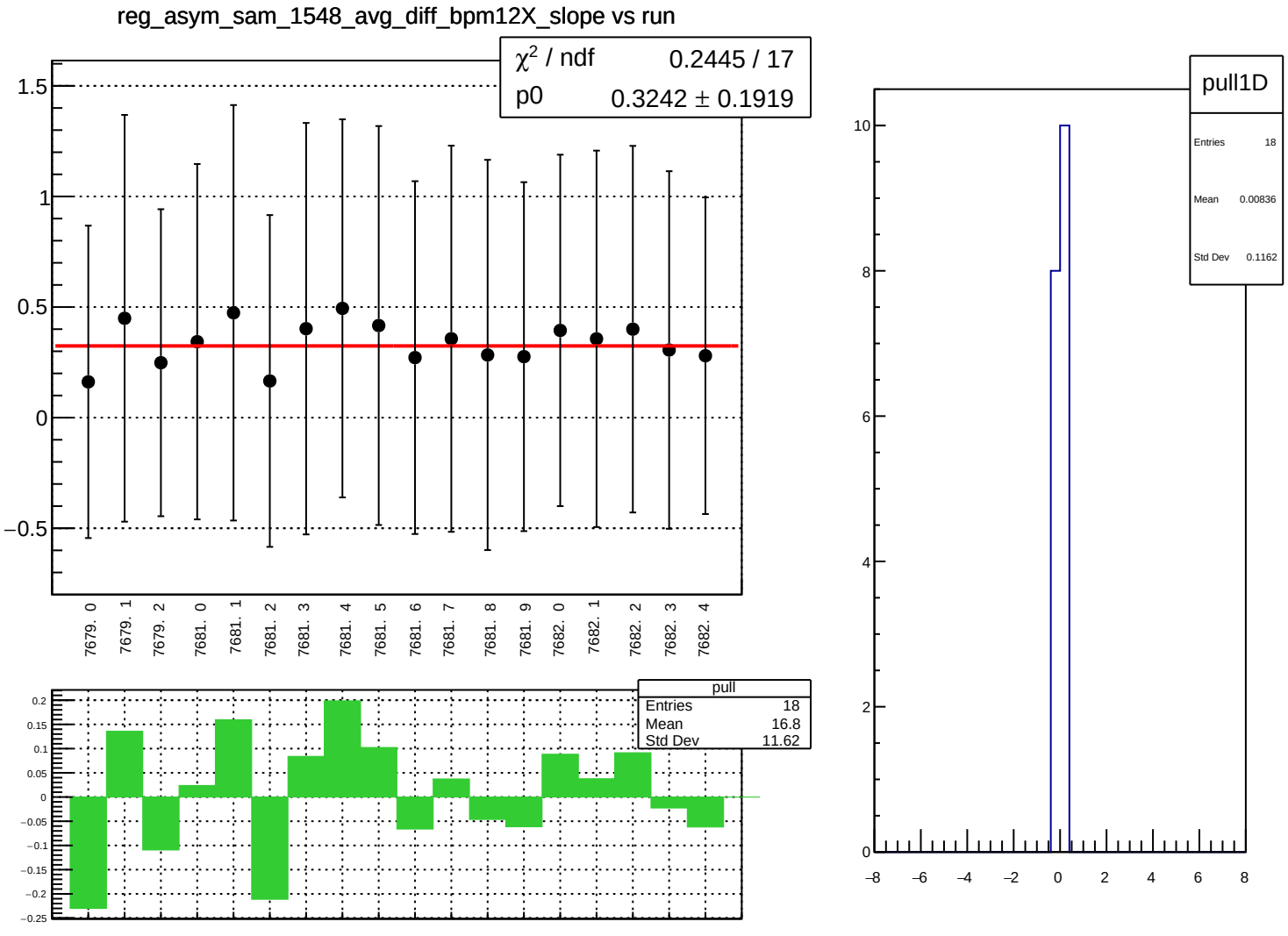

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 0.6923 / 17
p0 0.07041± 0.08881
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −35.5
Std Dev 43.09
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 18
Mean −0.008756
Std Dev 0.1959
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

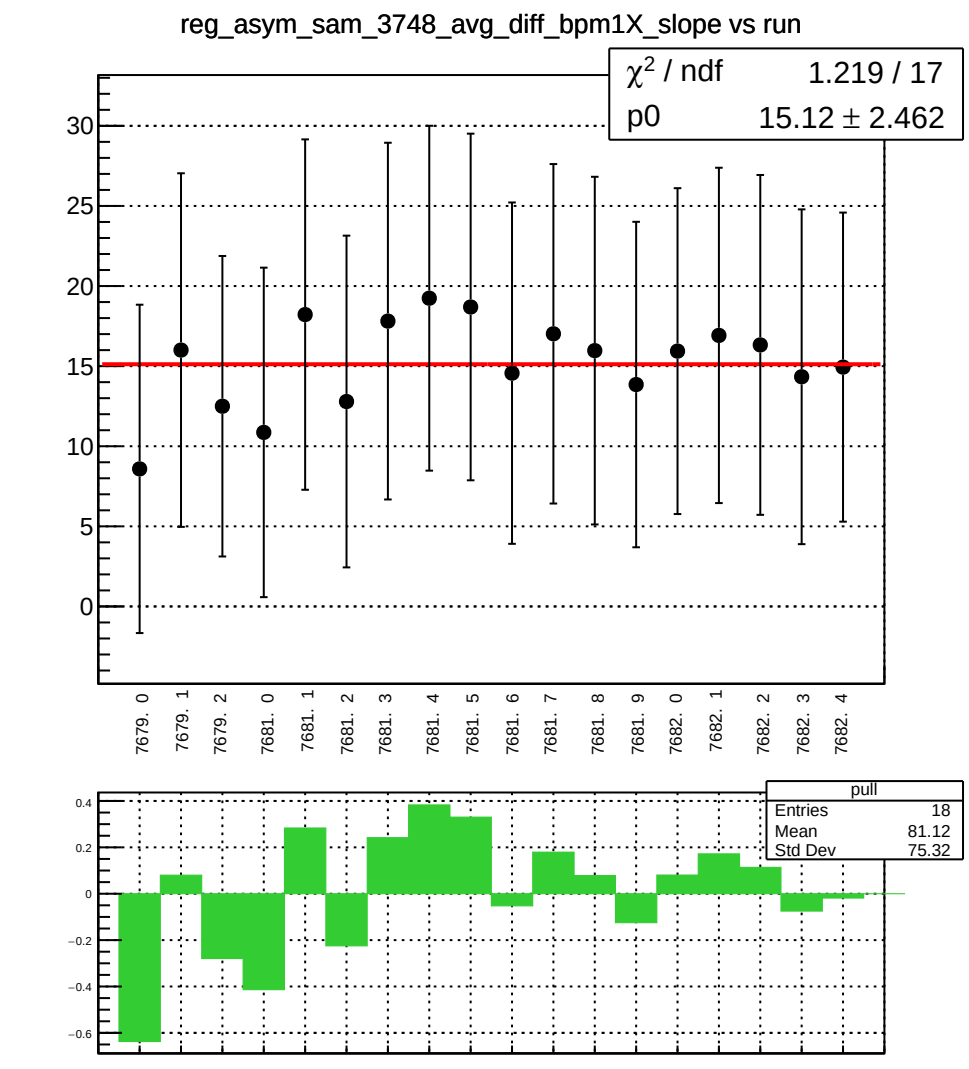

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 0.7817 / 17
p0 9.19 ± 1.541
20
15
10
5
0
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 76.84
Std Dev 70.07
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 18
Mean 0.006696
Std Dev 0.2083
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

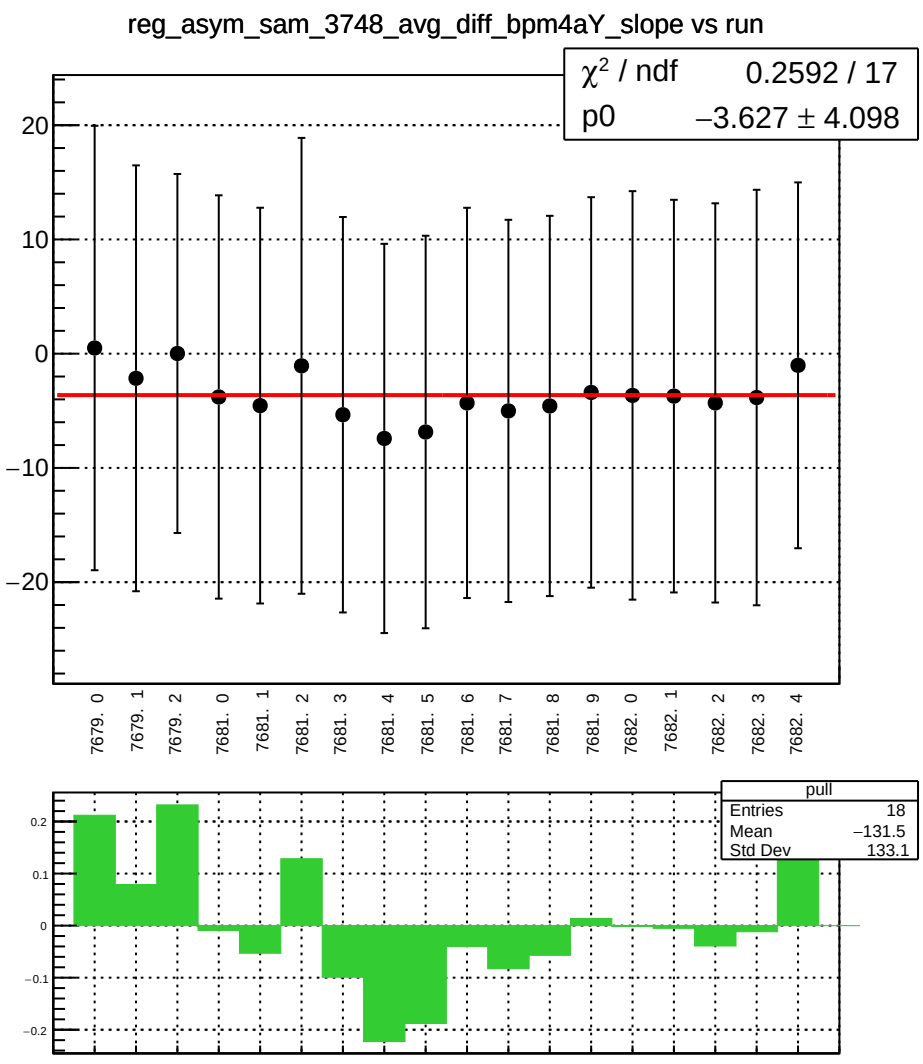

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.3079 / 17
p0 −4.061 ± 2.569
10
5
0
−5
−10
−15
−20
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −56.83
Std Dev 56.17
0.3
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 18
Mean 0.001694
Std Dev 0.1308
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

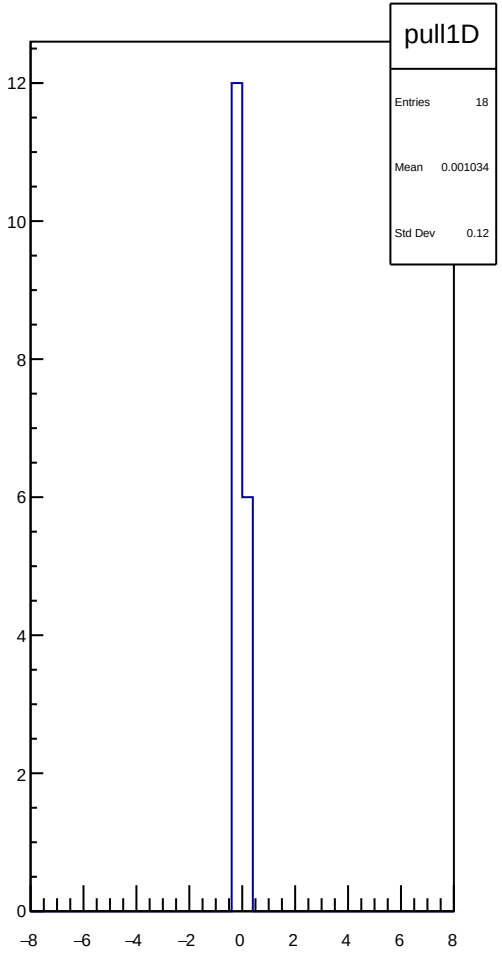

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 0.7677 / 17
p0 −61.02 ± 1.249
−54
−56
−58
−60
−62
−64
−66
−68
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 108
Std Dev 100.4
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 18
Mean −0.005732
Std Dev 0.2064
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

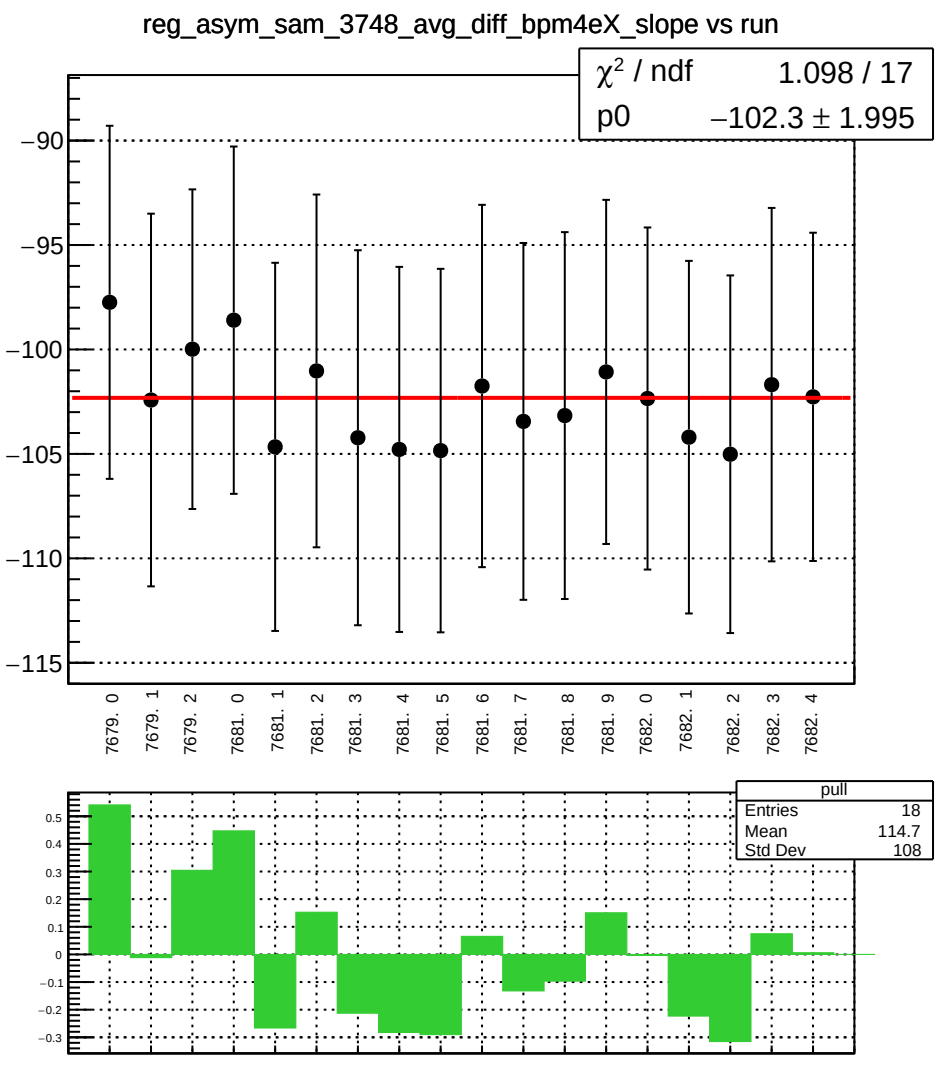

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.2179 / 17
p0 81.67 ± 3.806
105
100
95
90
85
80
75
70
65
60
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 214
Std Dev 208.5
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
pull1D
Entries 18
Mean 0.0009697
Std Dev 0.11
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

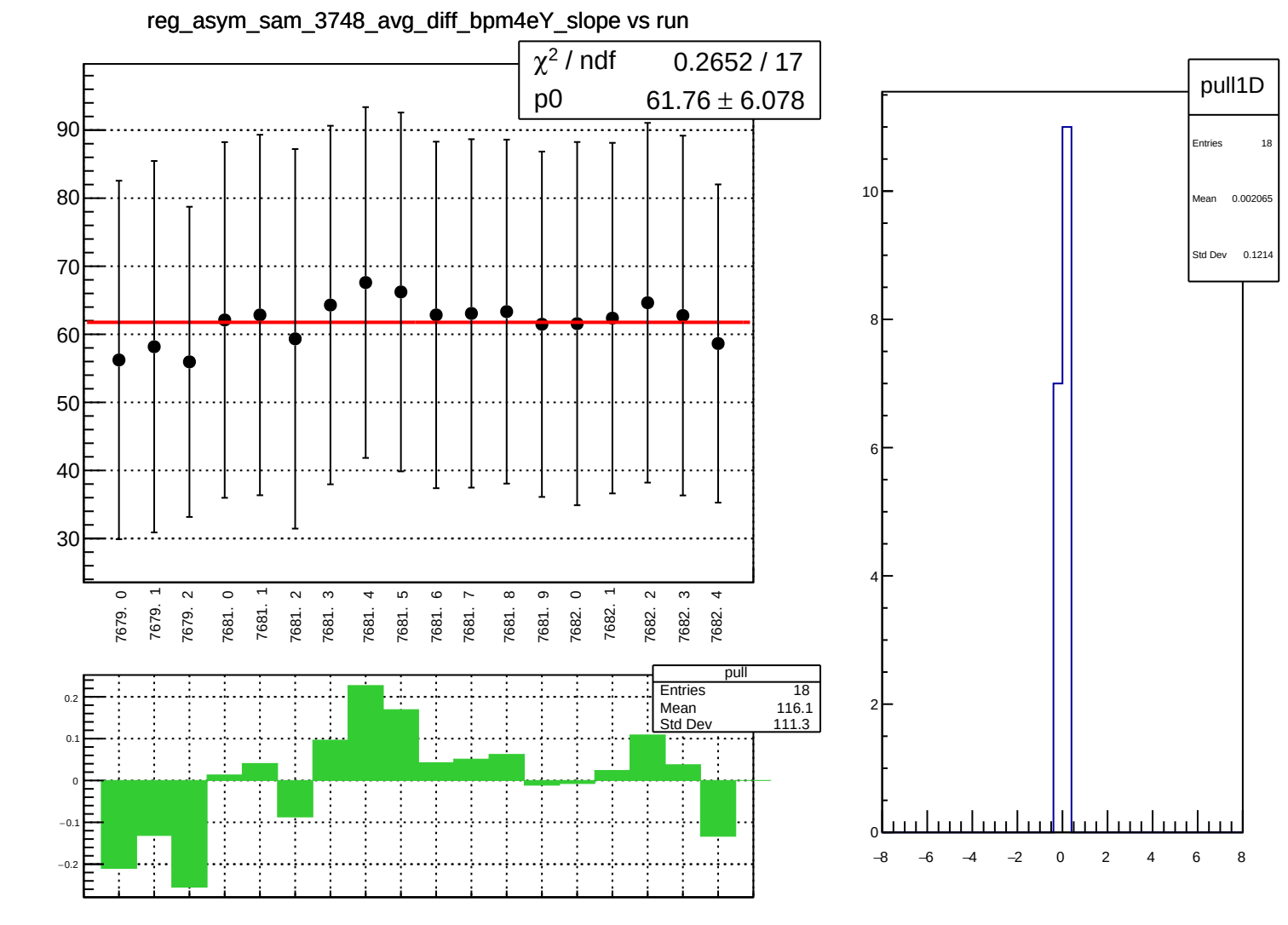

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 0.2445 / 17
p0 0.3242 ± 0.1919
1.5
1
0.5
0
−0.5
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 16.8
Std Dev 11.62
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
−0.25
pull1D
Entries 18
Mean 0.00836
Std Dev 0.1162
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

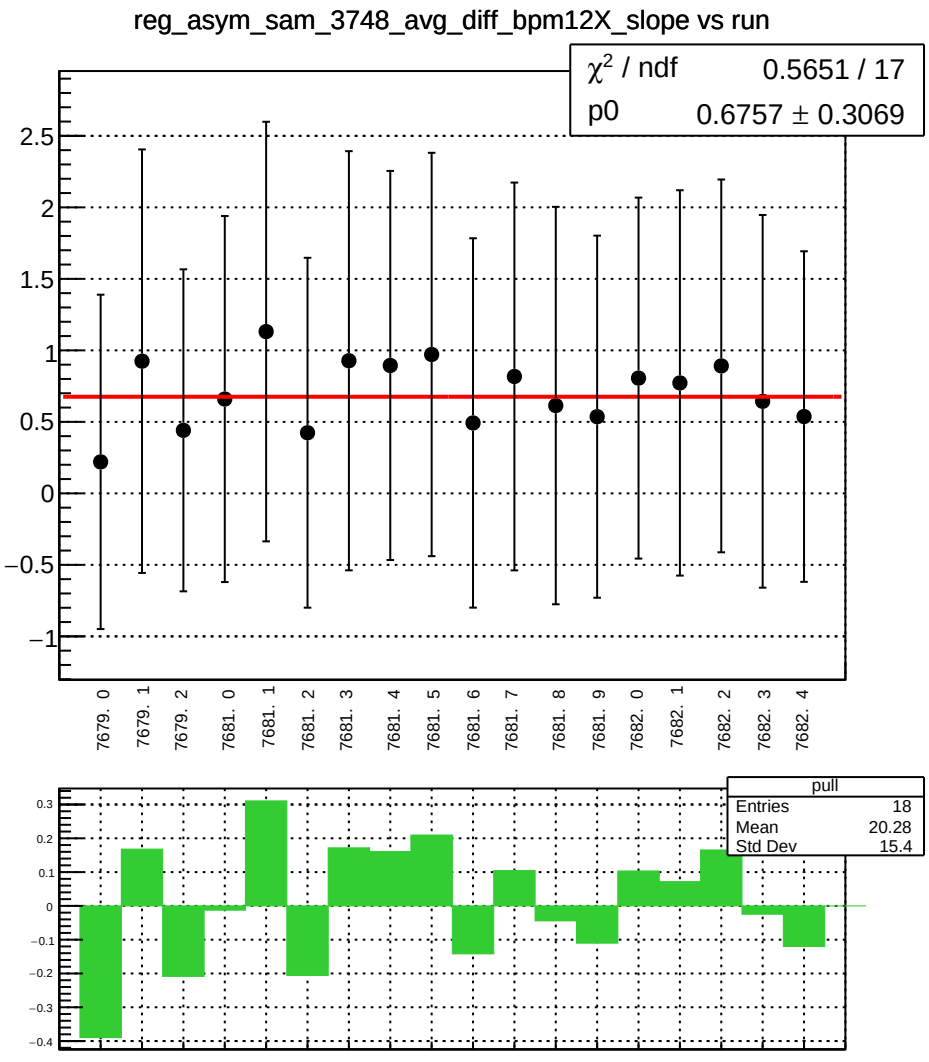

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 1.219 / 17
p0 15.12 ± 2.462
30
25
20
15
10
5
0
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 81.12
Std Dev 75.32
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 18
Mean 0.006476
Std Dev 0.2601
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

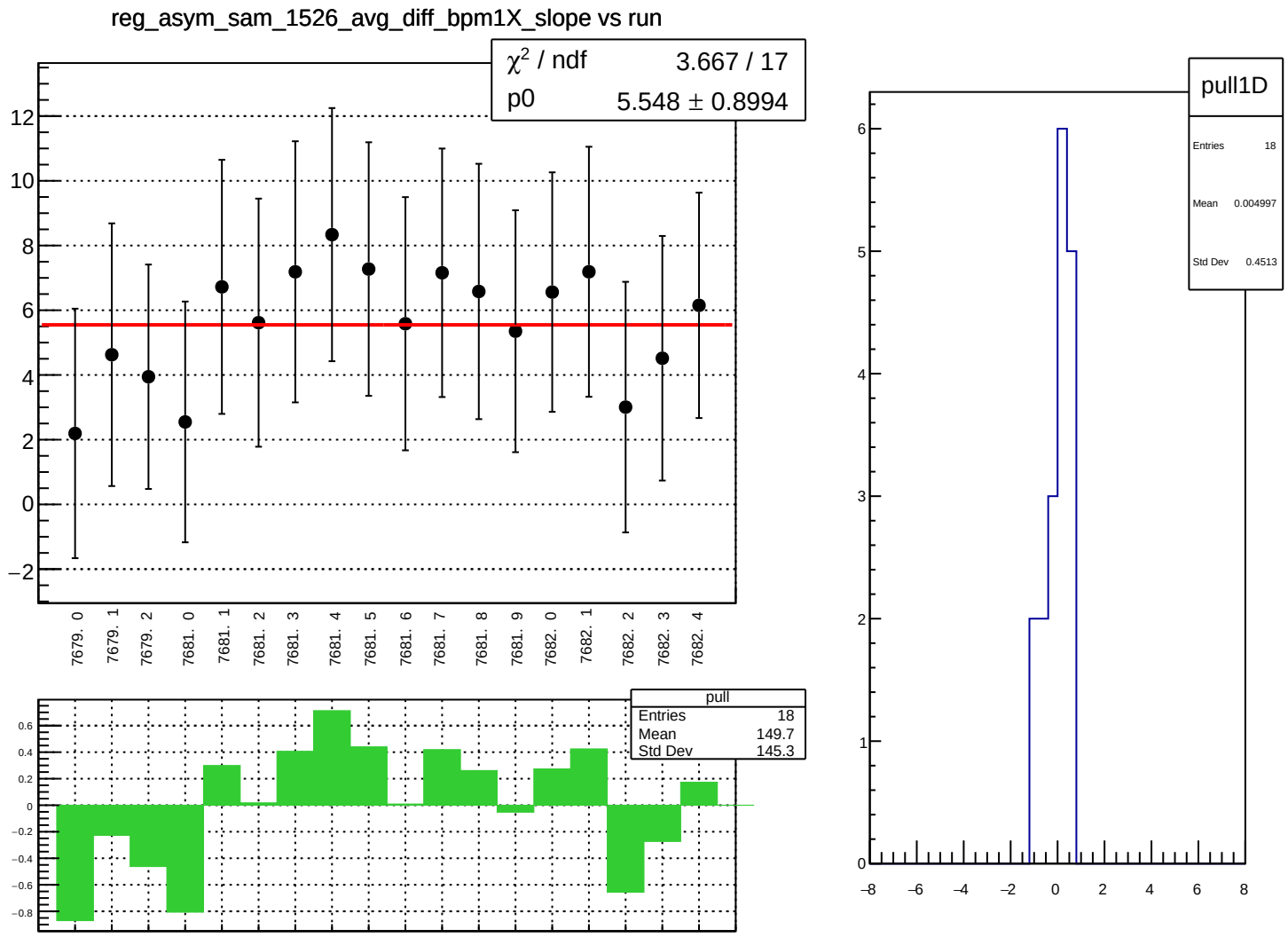

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.2592 / 17
p0 −3.627 ± 4.098
20
10
0
−10
−20
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −131.5
Std Dev 133.1
0.2
0.1
0
−0.1
−0.2

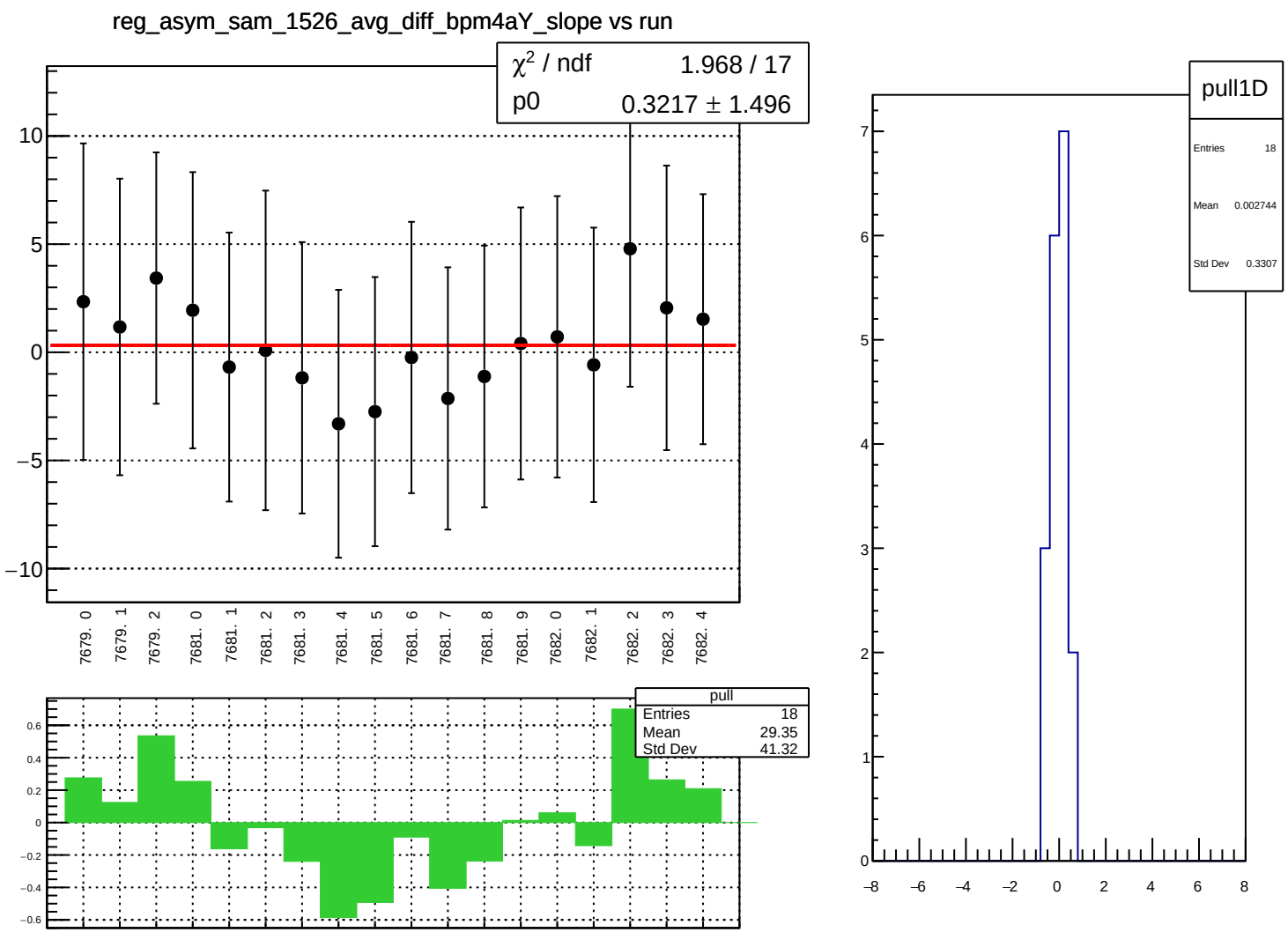

pull1D
Entries 18
Mean 0.001034
Std Dev 0.12
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

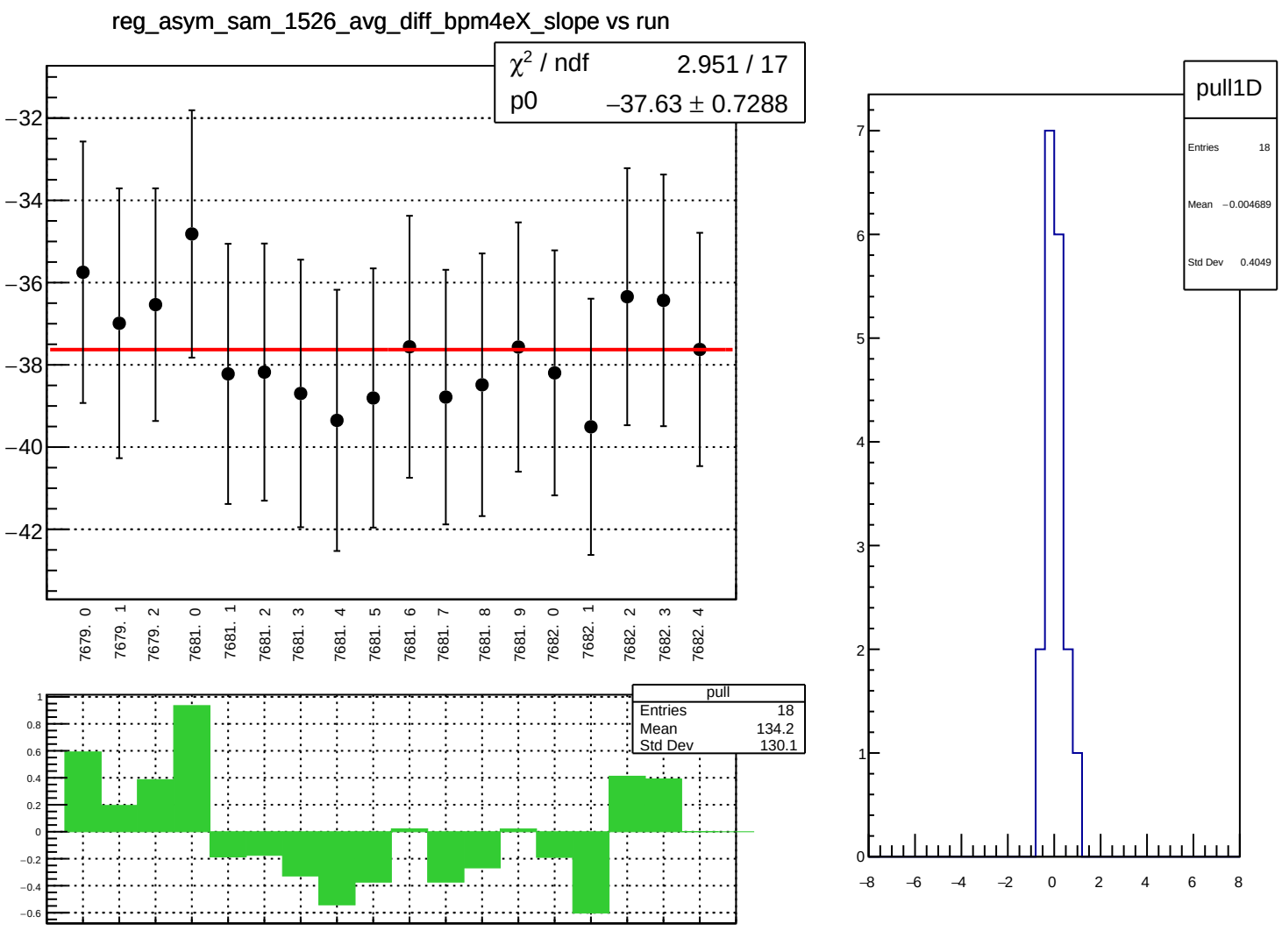

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.098 / 17
p0 −102.3 ± 1.995
−90
−95
−100
−105
−110
−115
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 114.7
Std Dev 108
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 18
Mean −0.005122
Std Dev 0.2469
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

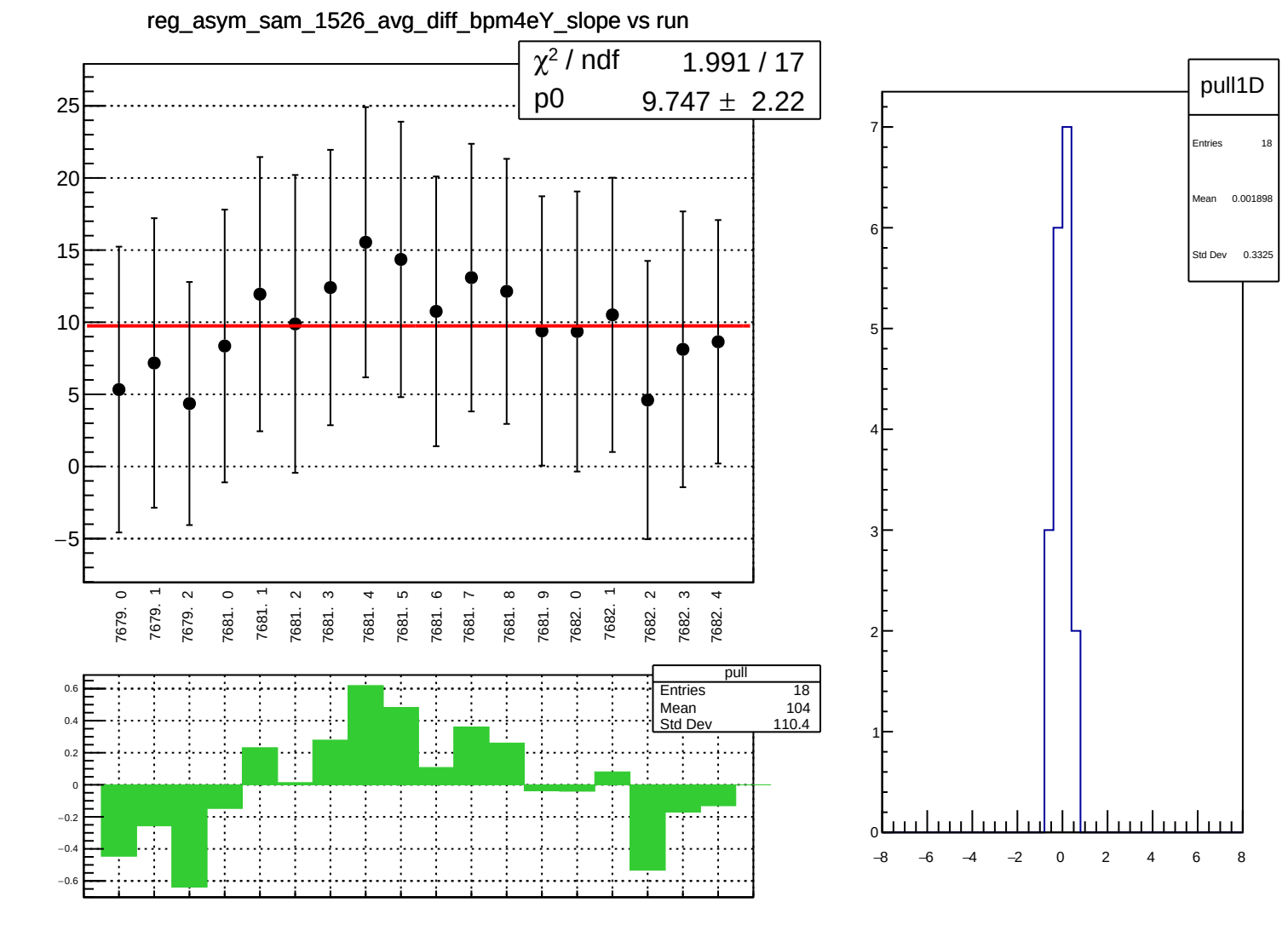

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.2652 / 17
p0 61.76 ± 6.078
90
80
70
60
50
40
30
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 116.1
Std Dev 111.3
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 18
Mean 0.002065
Std Dev 0.1214
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

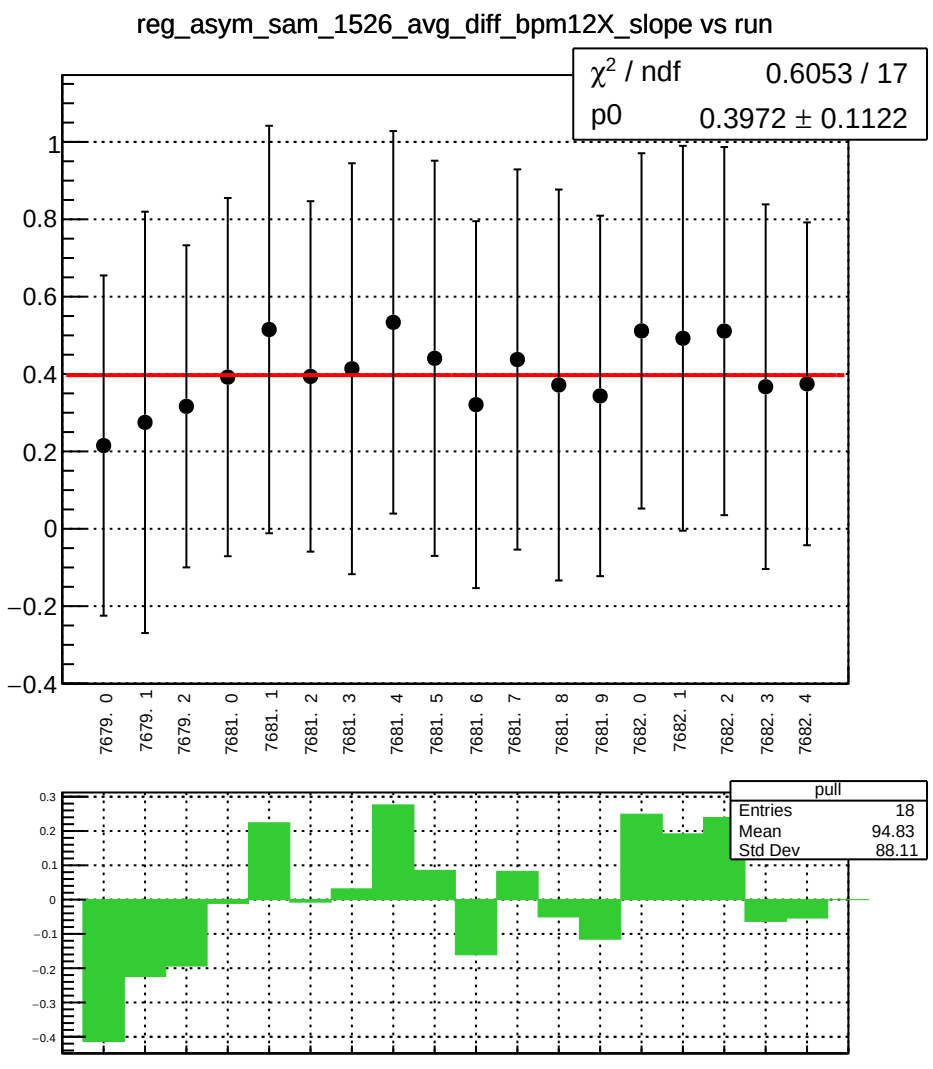

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 0.5651 / 17
p0 0.6757 ± 0.3069
2.5
2
1.5
1
0.5
0
−0.5
−1
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 20.28
Std Dev 15.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 18
Mean 0.01155
Std Dev 0.1768
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

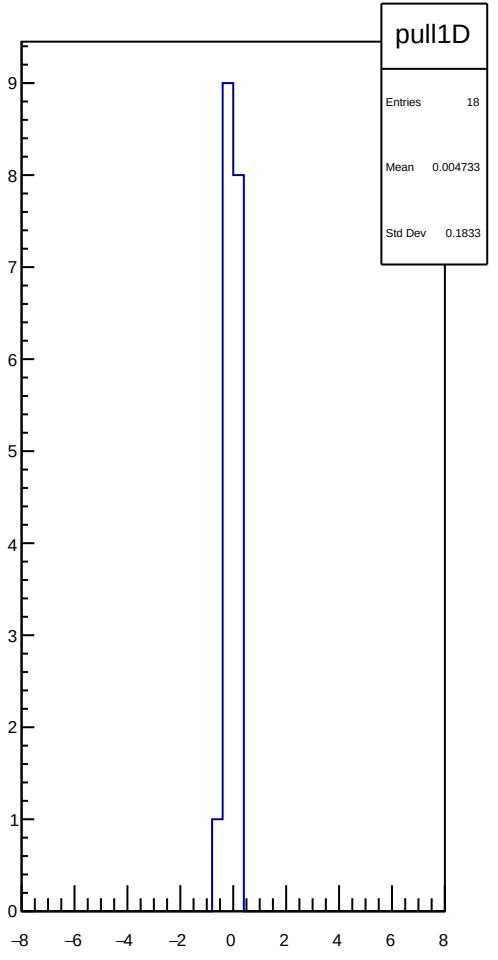

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 3.667 / 17
p0 5.548 ± 0.8994
12
10
8
6
4
2
0
−2
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 149.7
Std Dev 145.3
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 18
Mean 0.004997
Std Dev 0.4513
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

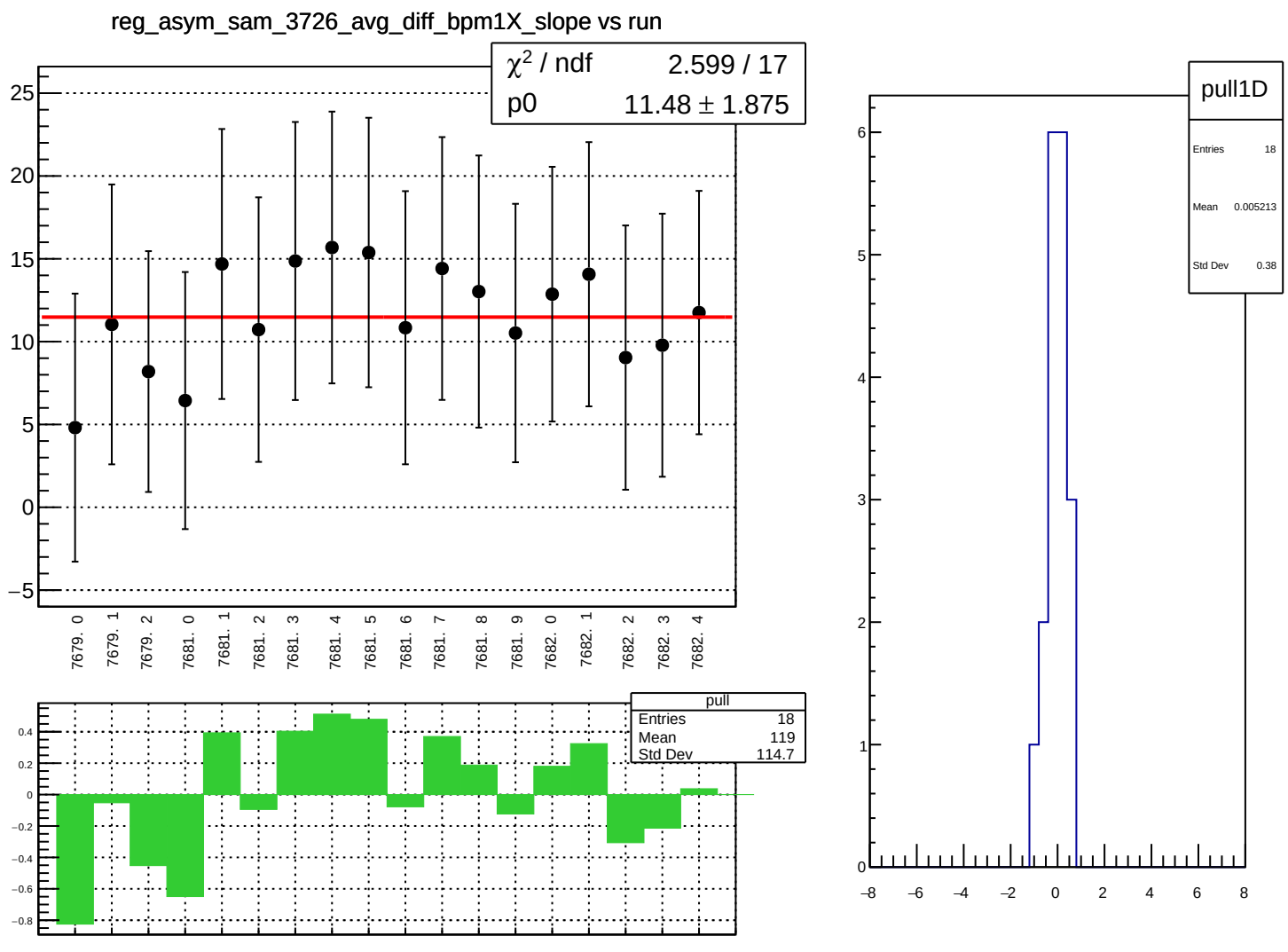

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.968 / 17
p0 0.3217 ± 1.496
10
5
0
−5
−10
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 29.35
Std Dev 41.32
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 18
Mean 0.002744
Std Dev 0.3307
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

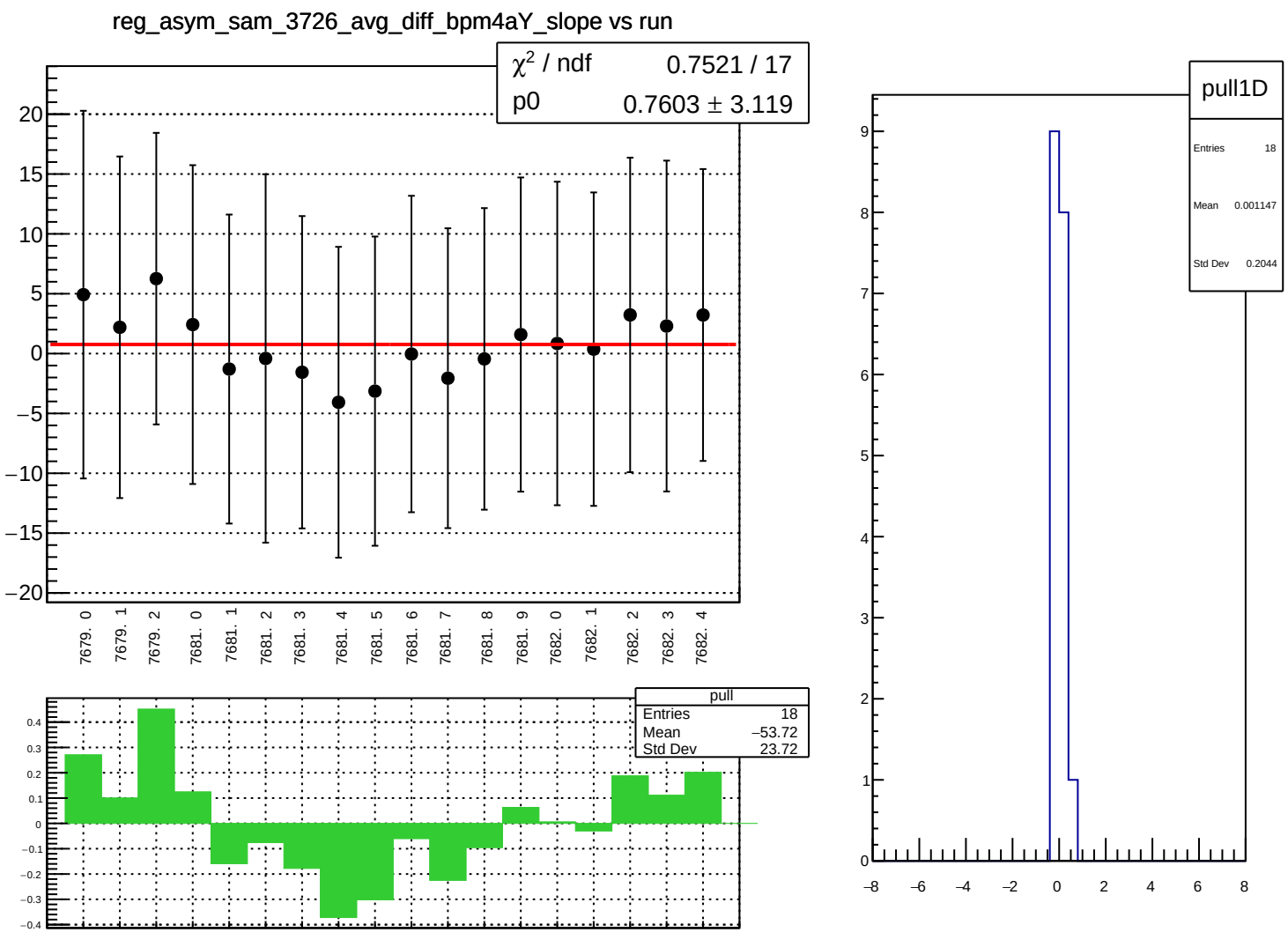

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.951 / 17
p0 −37.63 ± 0.7288
−32
−34
−36
−38
−40
−42
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 134.2
Std Dev 130.1
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 18
Mean −0.004689
Std Dev 0.4049
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

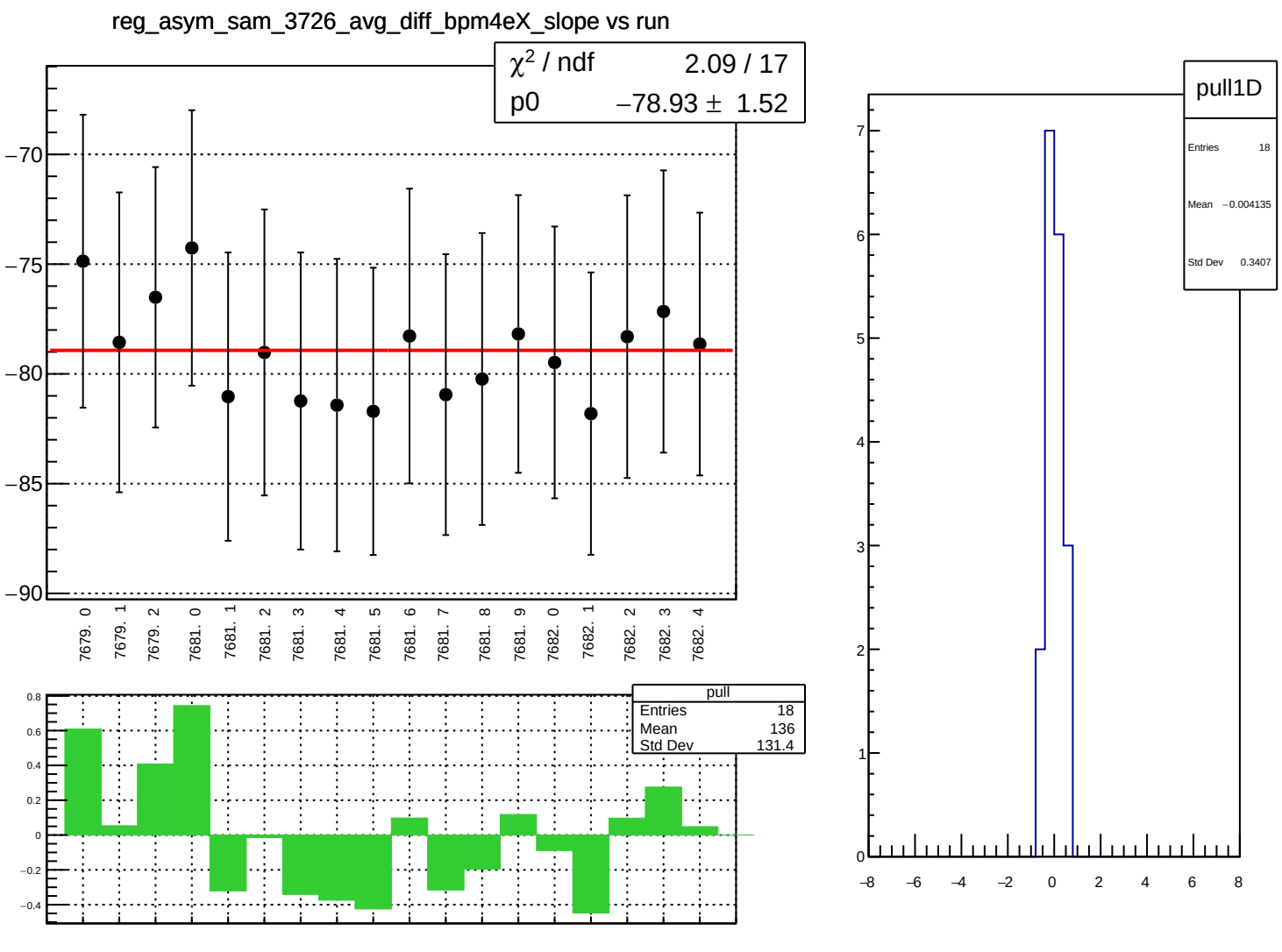

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.991 / 17
p0 9.747 ± 2.22
25
20
15
10
5
0
−5
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 104
Std Dev 110.4
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 18
Mean 0.001898
Std Dev 0.3325
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

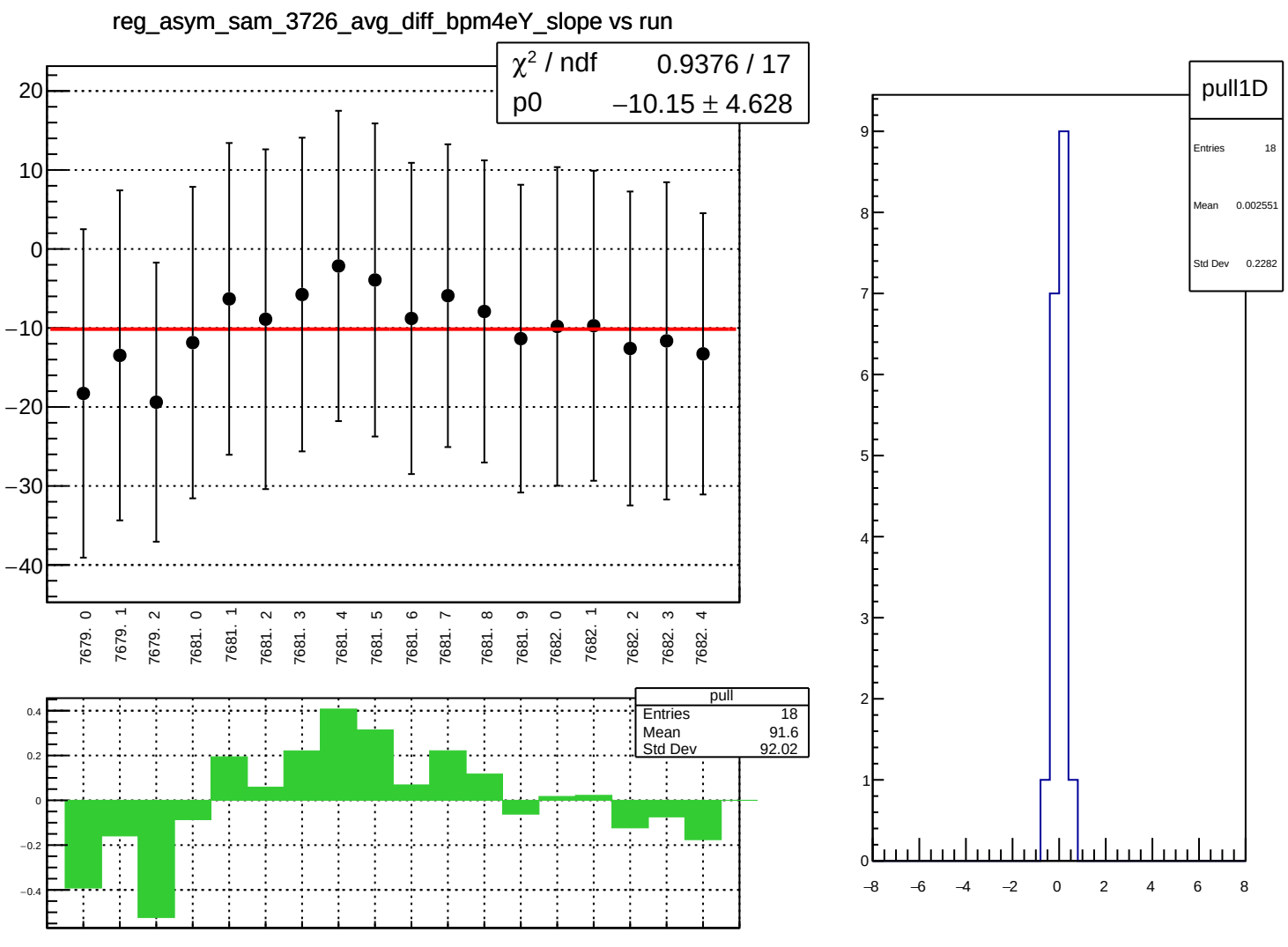

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 0.6053 / 17
p0 0.3972 ± 0.1122
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 94.83
Std Dev 88.11
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

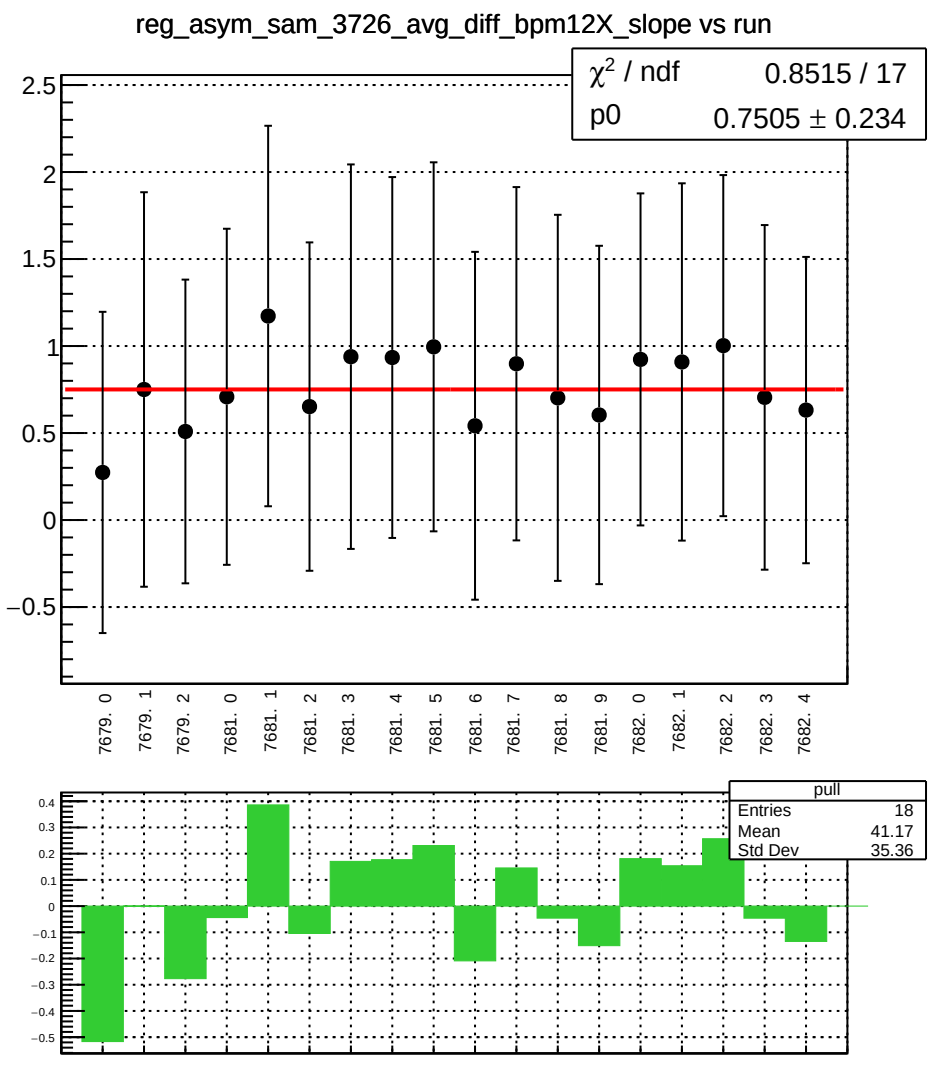

pull1D
Entries 18
Mean 0.004733
Std Dev 0.1833
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

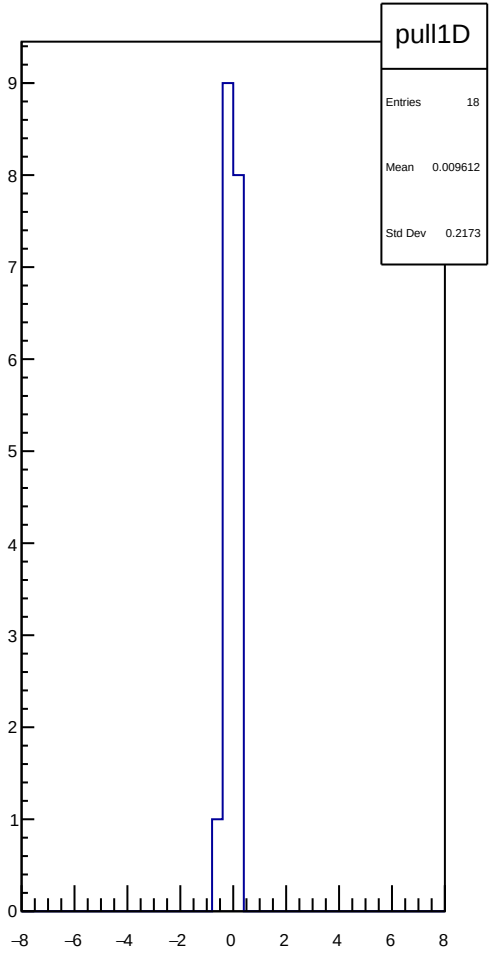

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 2.599 / 17
p0 11.48 ± 1.875
25
20
15
10
5
0
−5
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 119
Std Dev 114.7
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 18
Mean 0.005213
Std Dev 0.38
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

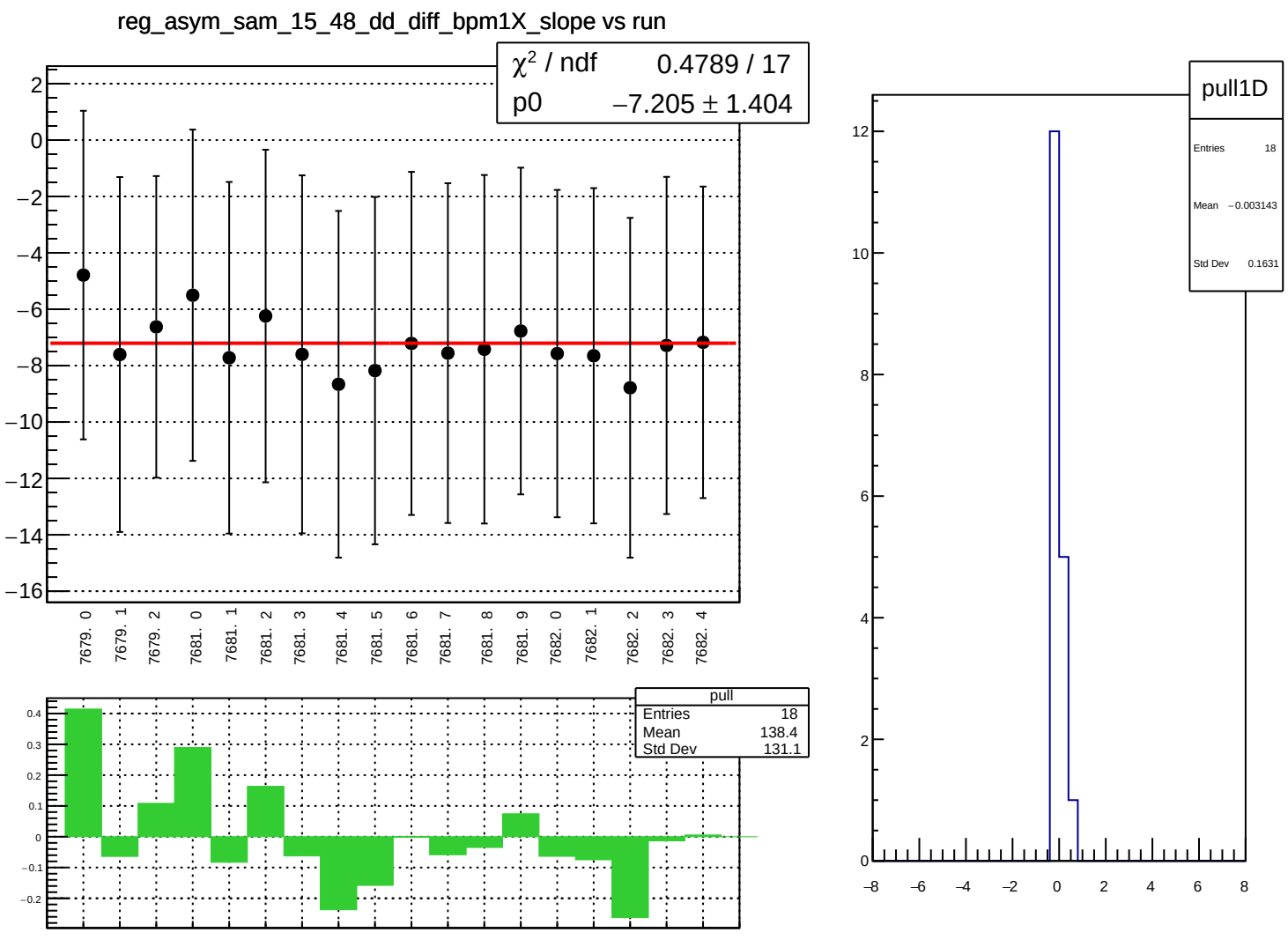

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.7521 / 17
p0 0.7603 ± 3.119
20
15
10
5
0
−5
−10
−15
−20
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −53.72
Std Dev 23.72
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 18
Mean 0.001147
Std Dev 0.2044
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

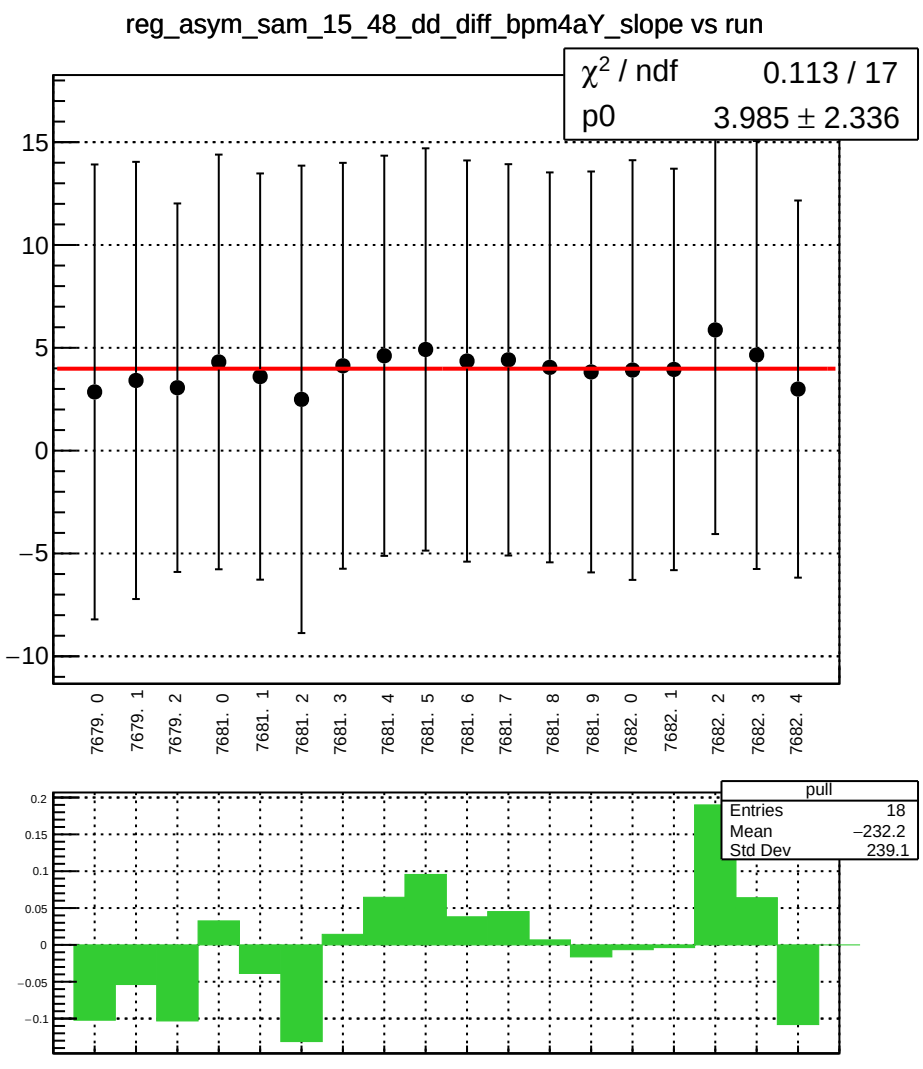

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.09 / 17
p0 −78.93 ± 1.52
−70
−75
−80
−85
−90
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 136
Std Dev 131.4
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 18
Mean −0.004135
Std Dev 0.3407
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

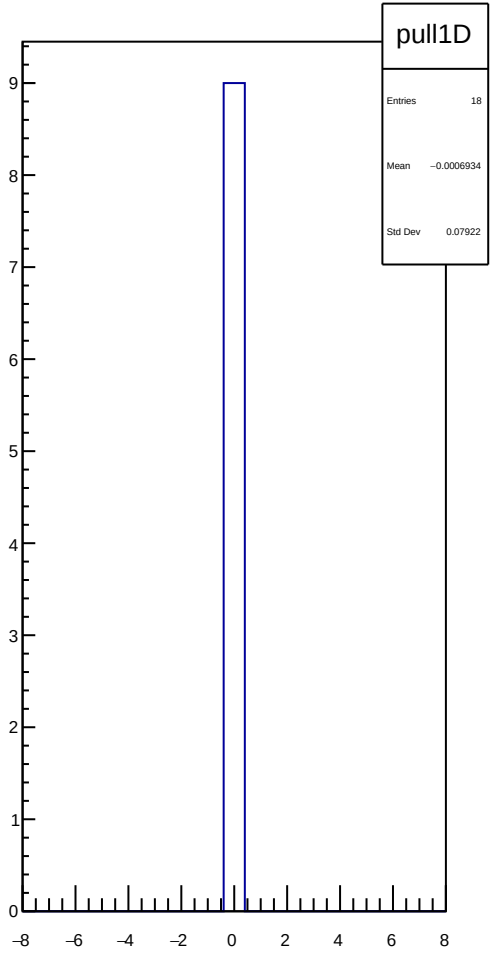

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.9376 / 17
p0 −10.15 ± 4.628
20
10
0
−10
−20
−30
−40
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 91.6
Std Dev 92.02
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 18
Mean 0.002551
Std Dev 0.2282
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

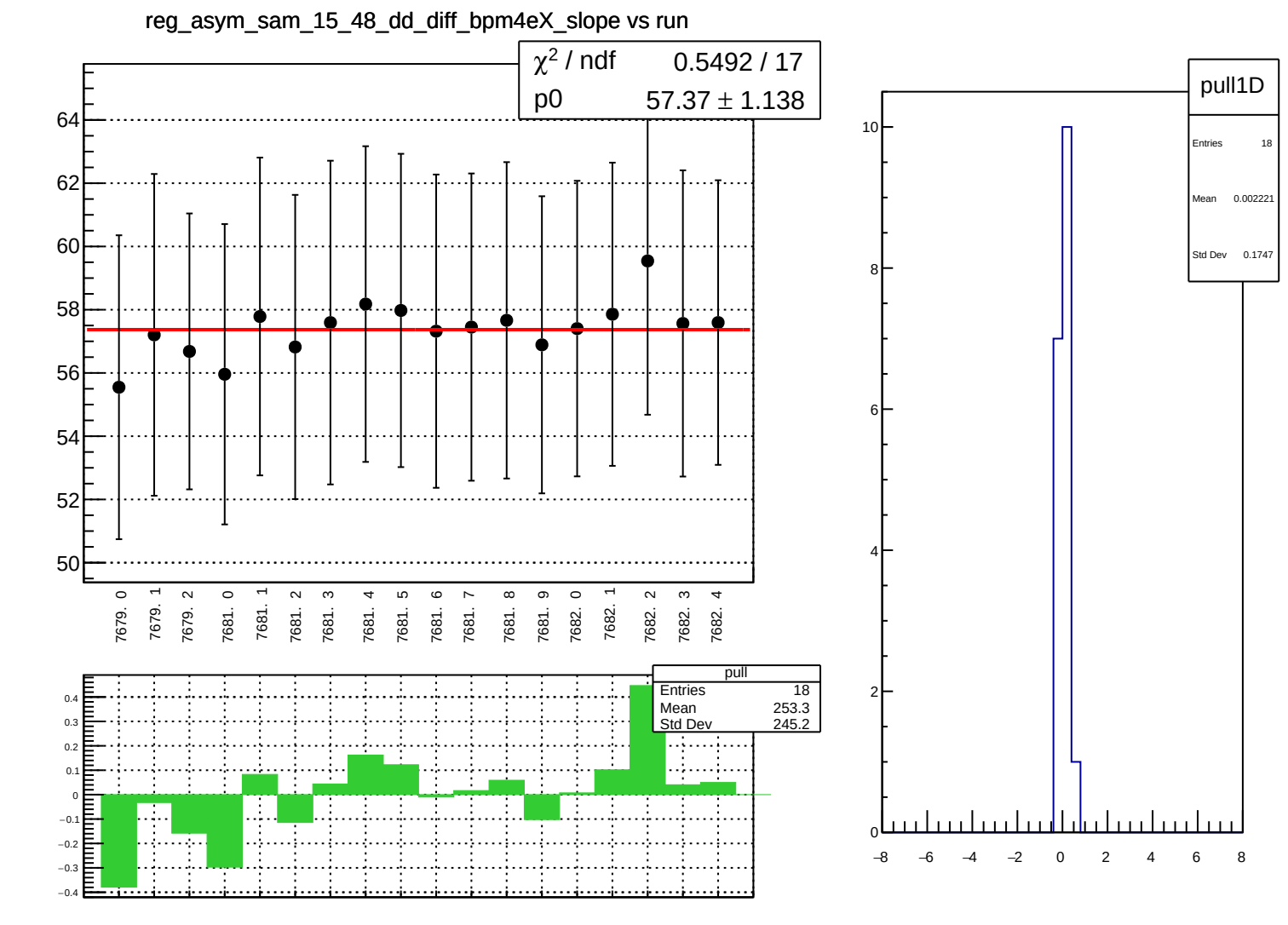

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 0.8515 / 17
p0 0.7505 ± 0.234
2.5
2
1.5
1
0.5
0
−0.5
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 41.17
Std Dev 35.36
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5

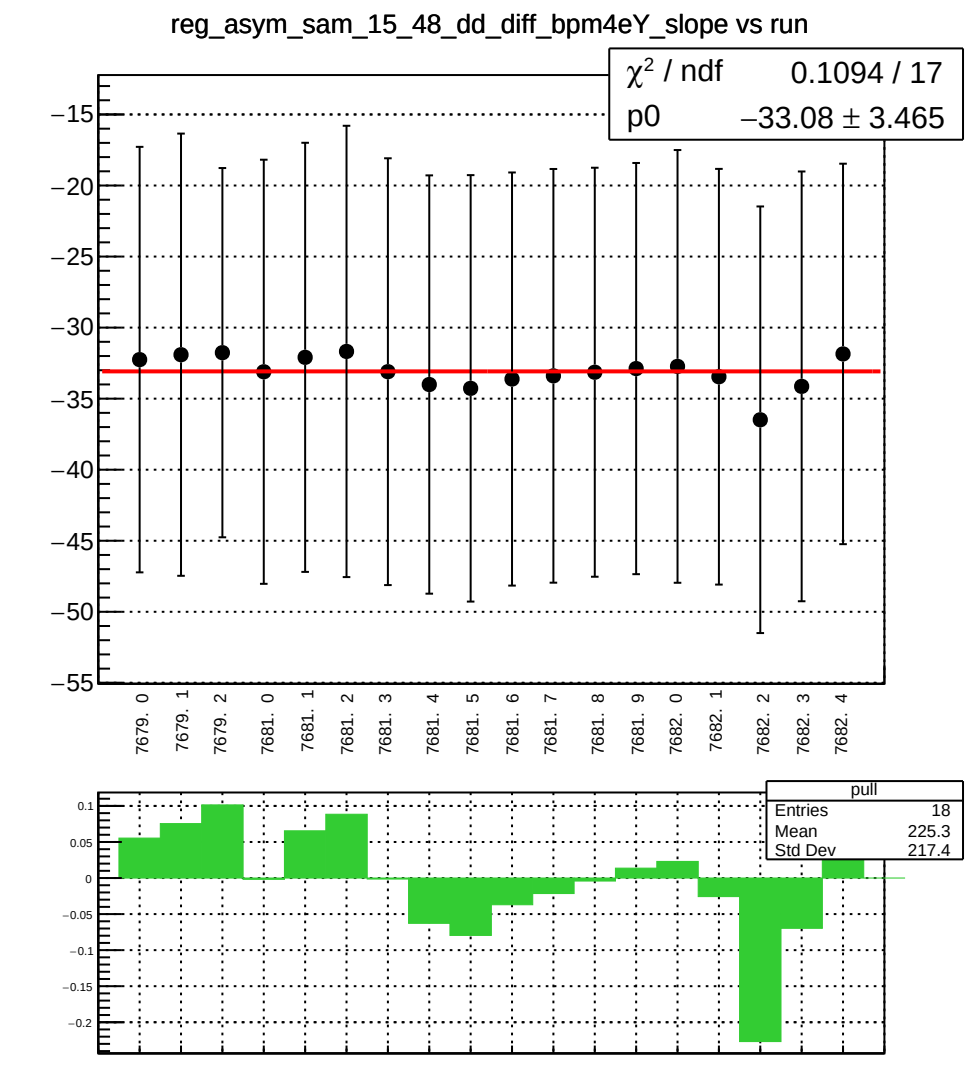

pull1D
Entries 18
Mean 0.009612
Std Dev 0.2173
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

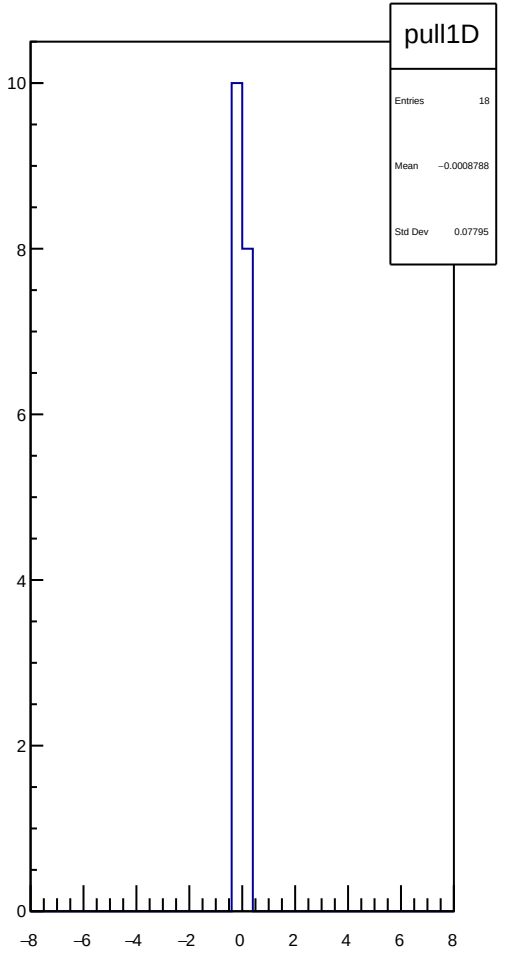

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 0.4789 / 17
p0 −7.205 ± 1.404
2
0
−2
−4
−6
−8
−10
−12
−14
−16
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 138.4
Std Dev 131.1
0.4
0.3
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 18
Mean −0.003143
Std Dev 0.1631
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

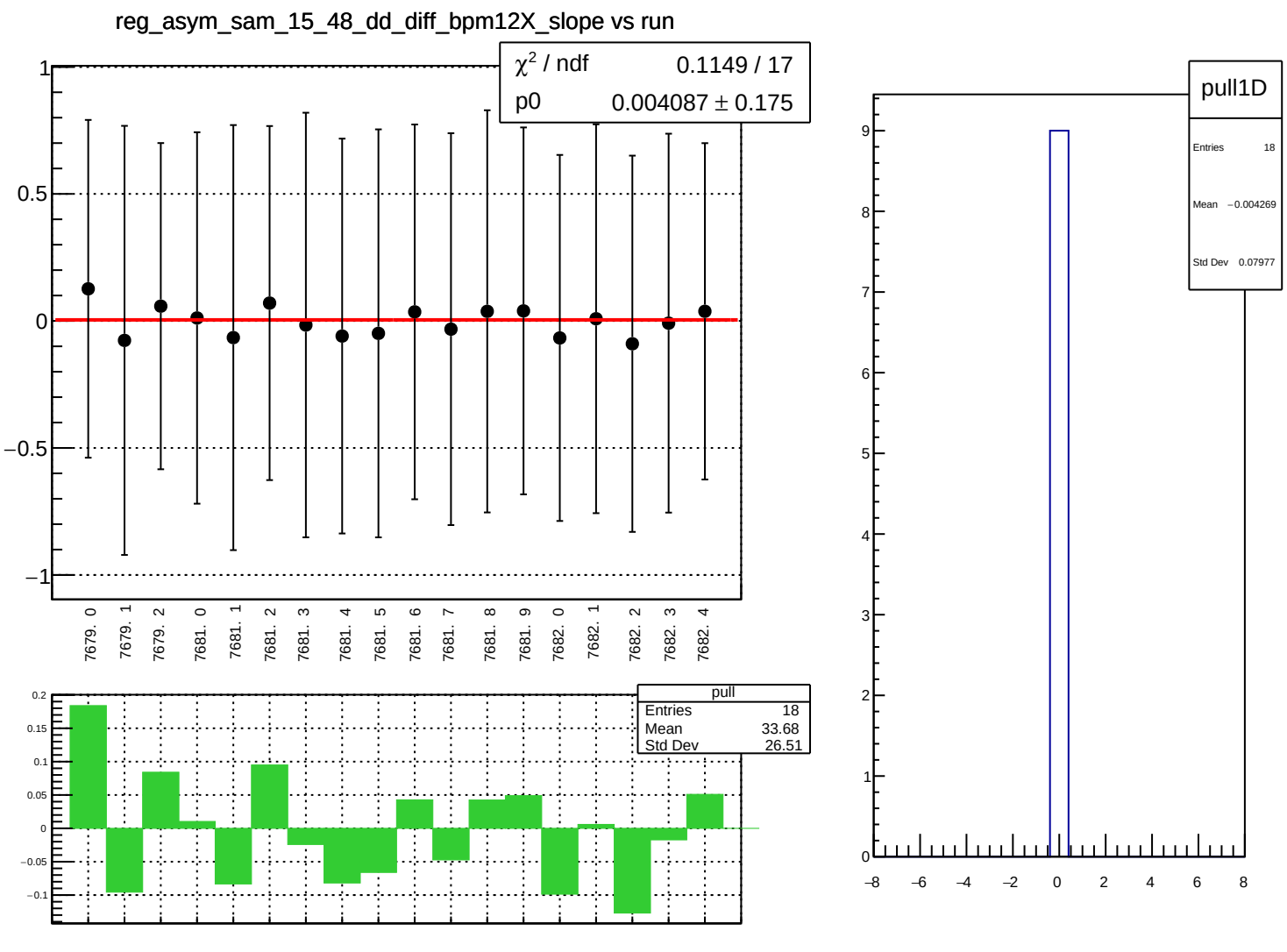

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.113 / 17
p0 3.985 ± 2.336
15
10
5
0
−5
−10
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −232.2
Std Dev 239.1
0.2
0.15
0.1
0.05
0
−0.05
−0.1

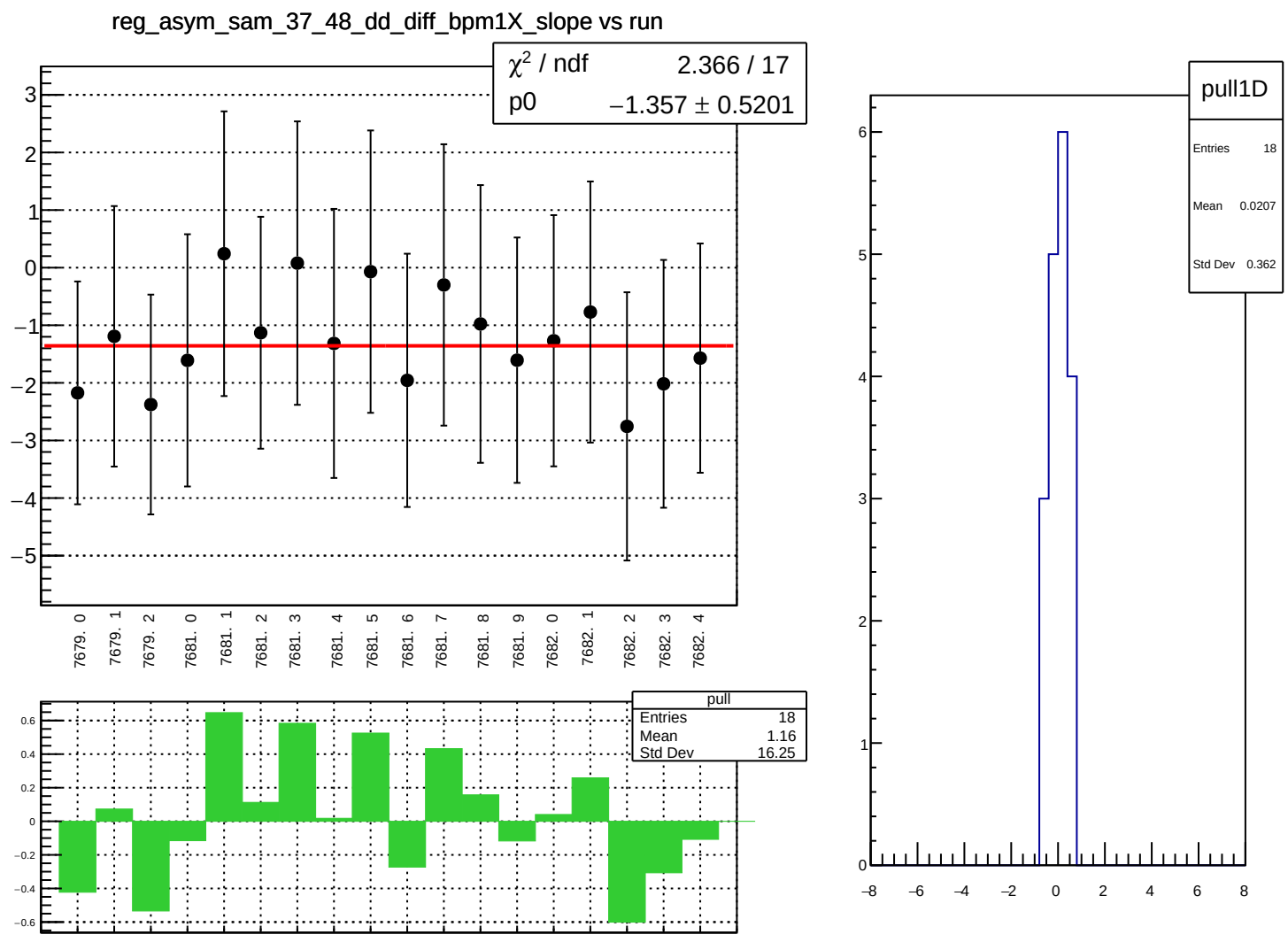

pull1D
Entries 18
Mean −0.0006934
Std Dev 0.07922
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

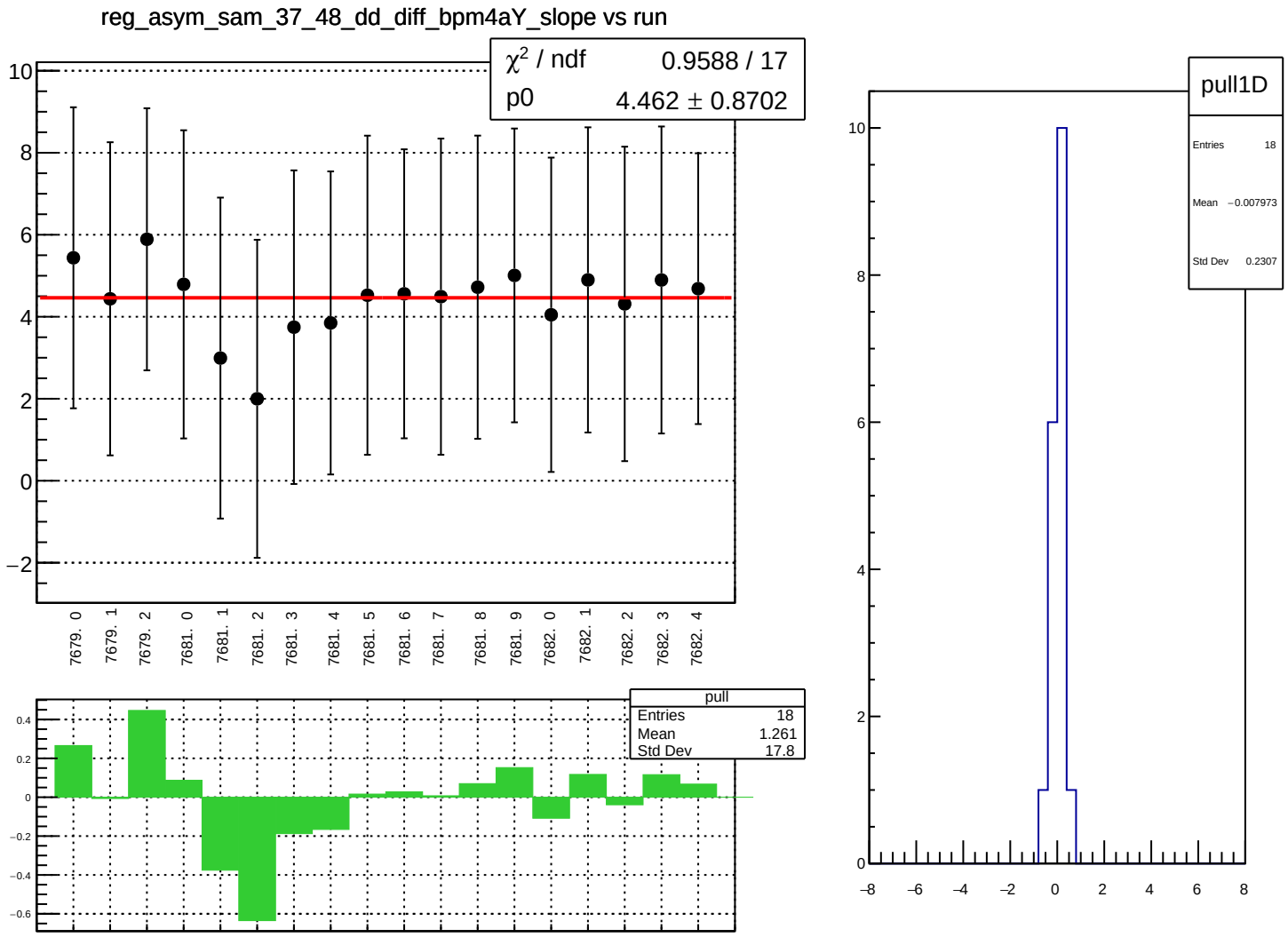

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.5492 / 17
p0 57.37 ± 1.138
64
62
60
58
56
54
52
50
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 253.3
Std Dev 245.2
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 18
Mean 0.002221
Std Dev 0.1747
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

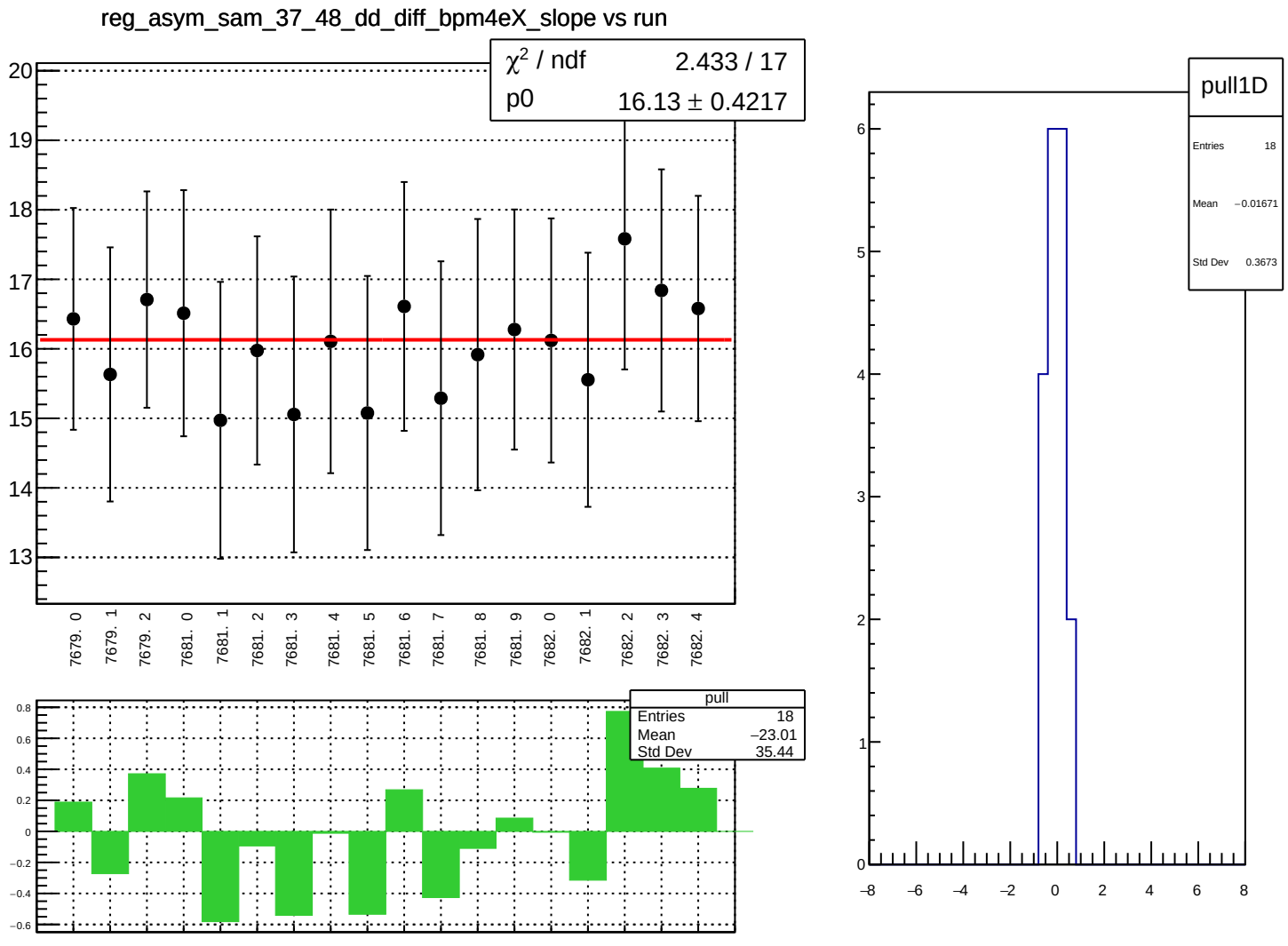

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.1094 / 17
p0 −33.08 ± 3.465
−15
−20
−25
−30
−35
−40
−45
−50
−55
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 225.3
Std Dev 217.4
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2

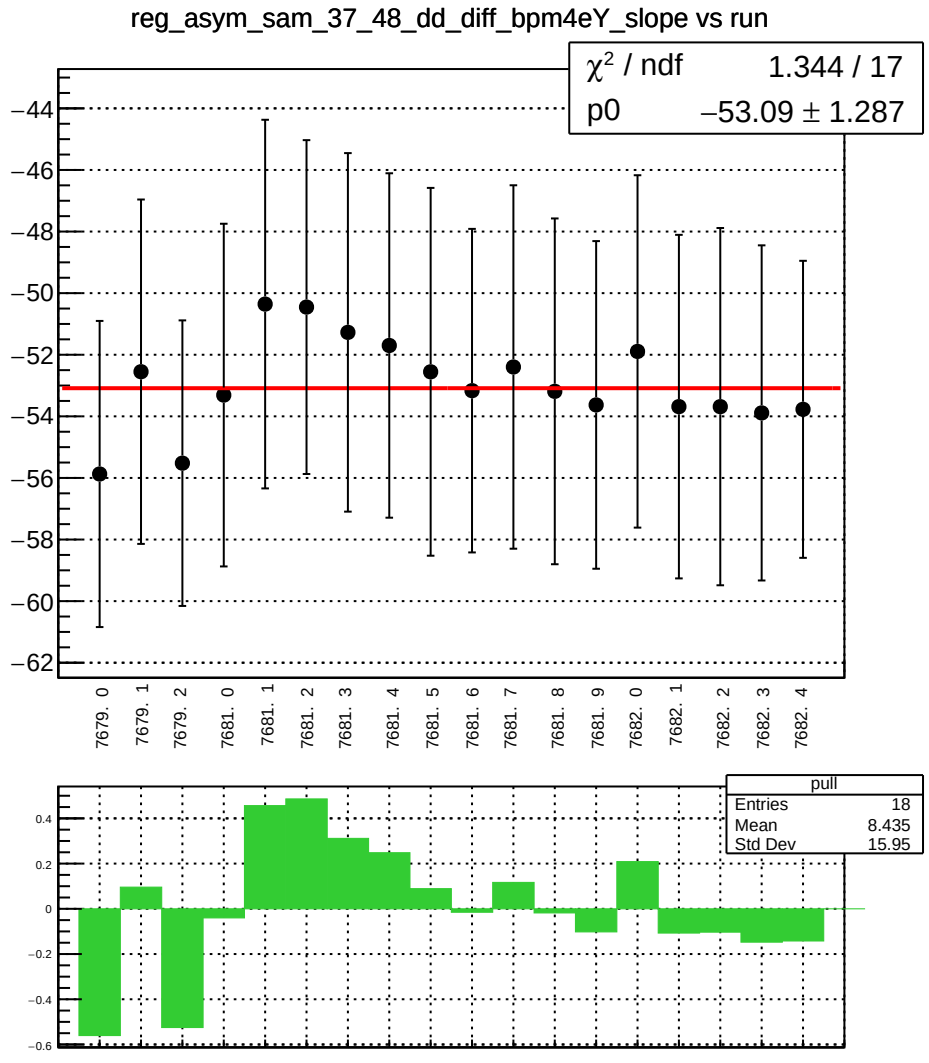

pull1D
Entries 18
Mean −0.0008788
Std Dev 0.07795
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

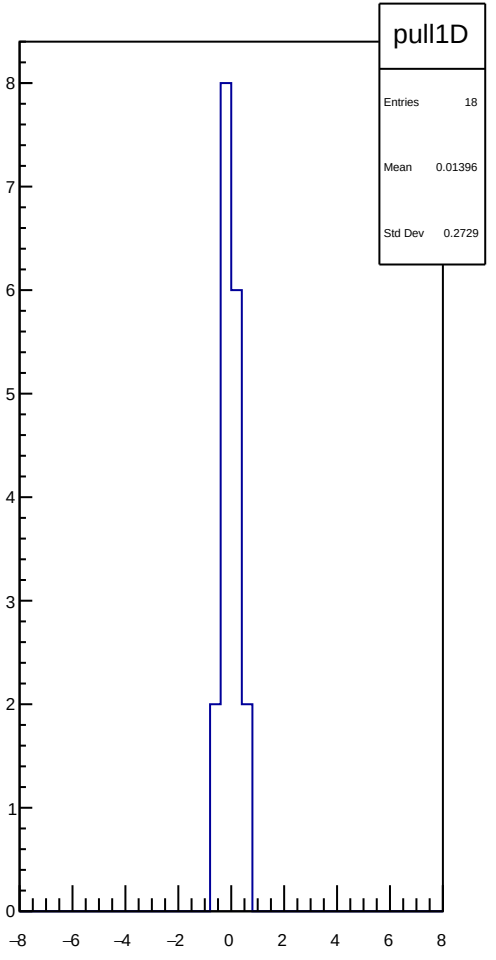

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 0.1149 / 17
p0 0.004087 ± 0.175
1
0.5
0
−0.5
−1
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 33.68
Std Dev 26.51
0.2
0.15
0.1
0.05
0
−0.05
−0.1
pull1D
Entries 18
Mean −0.004269
Std Dev 0.07977
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

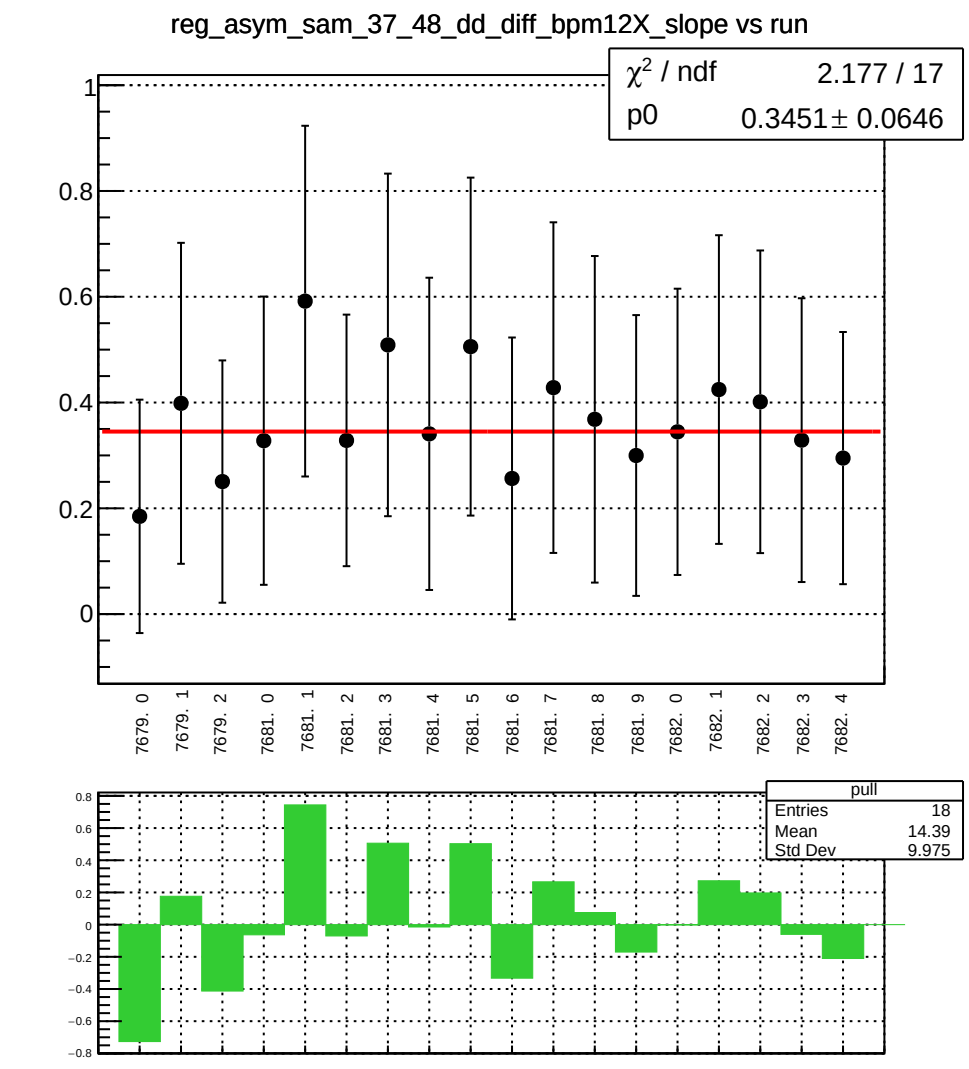

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 2.366 / 17
p0 −1.357 ± 0.5201
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 1.16
Std Dev 16.25
pull1D
Entries 18
Mean 0.0207
Std Dev 0.362

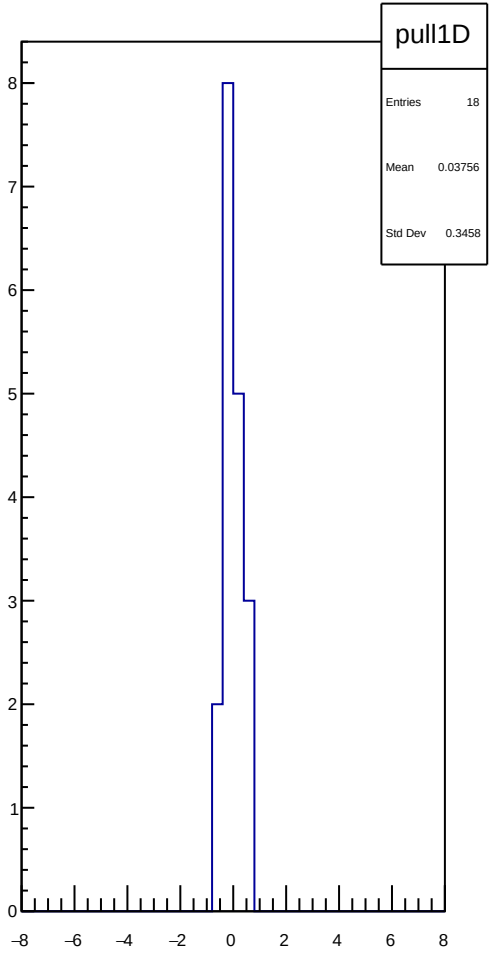

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.9588 / 17
p0 4.462 ± 0.8702
10
8
6
4
2
0
−2
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 1.261
Std Dev 17.8
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 18
Mean −0.007973
Std Dev 0.2307
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

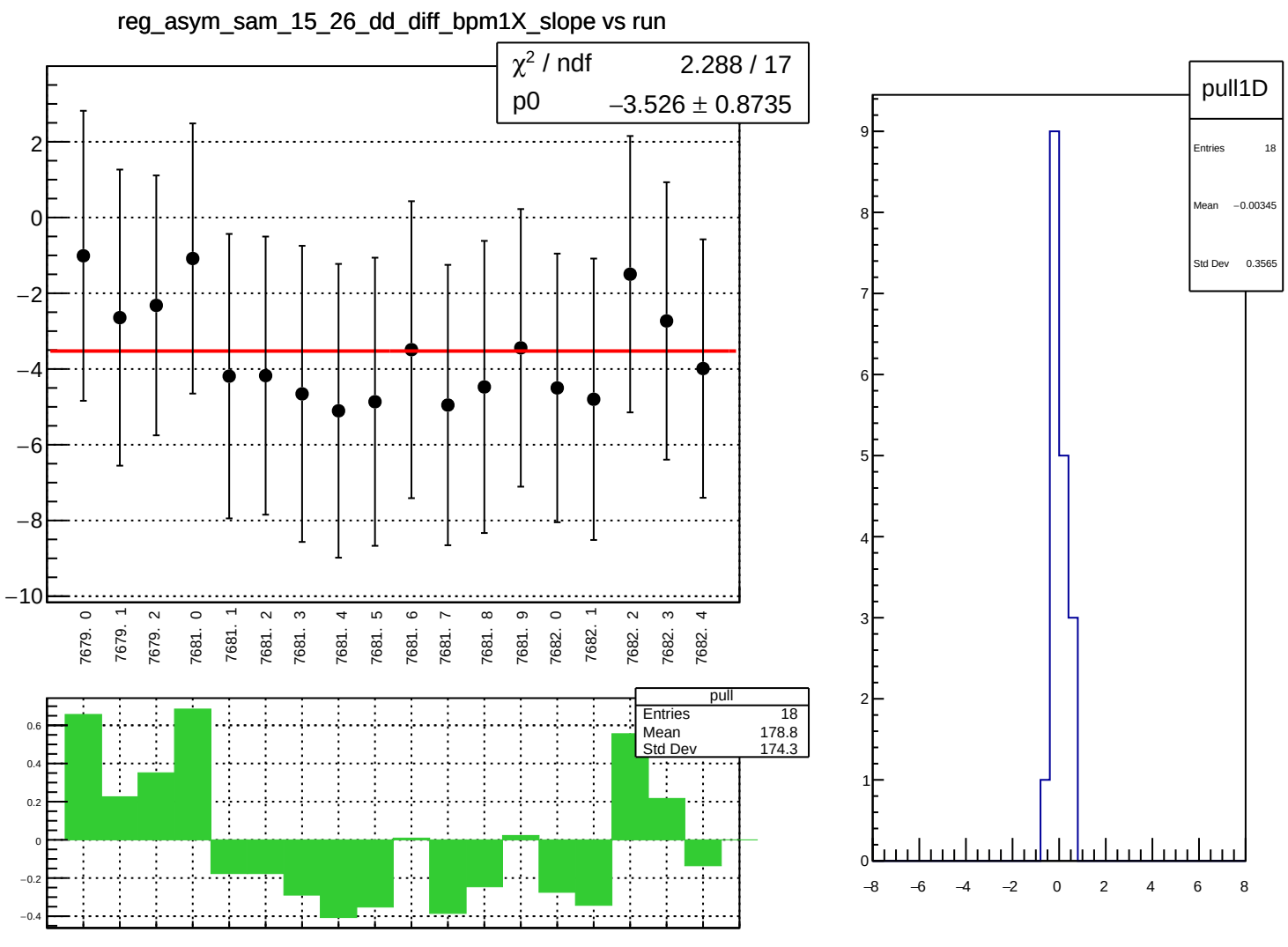

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.433 / 17
p0 16.13 ± 0.4217
20
19
18
17
16
15
14
13
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −23.01
Std Dev 35.44
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 18
Mean −0.01671
Std Dev 0.3673
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

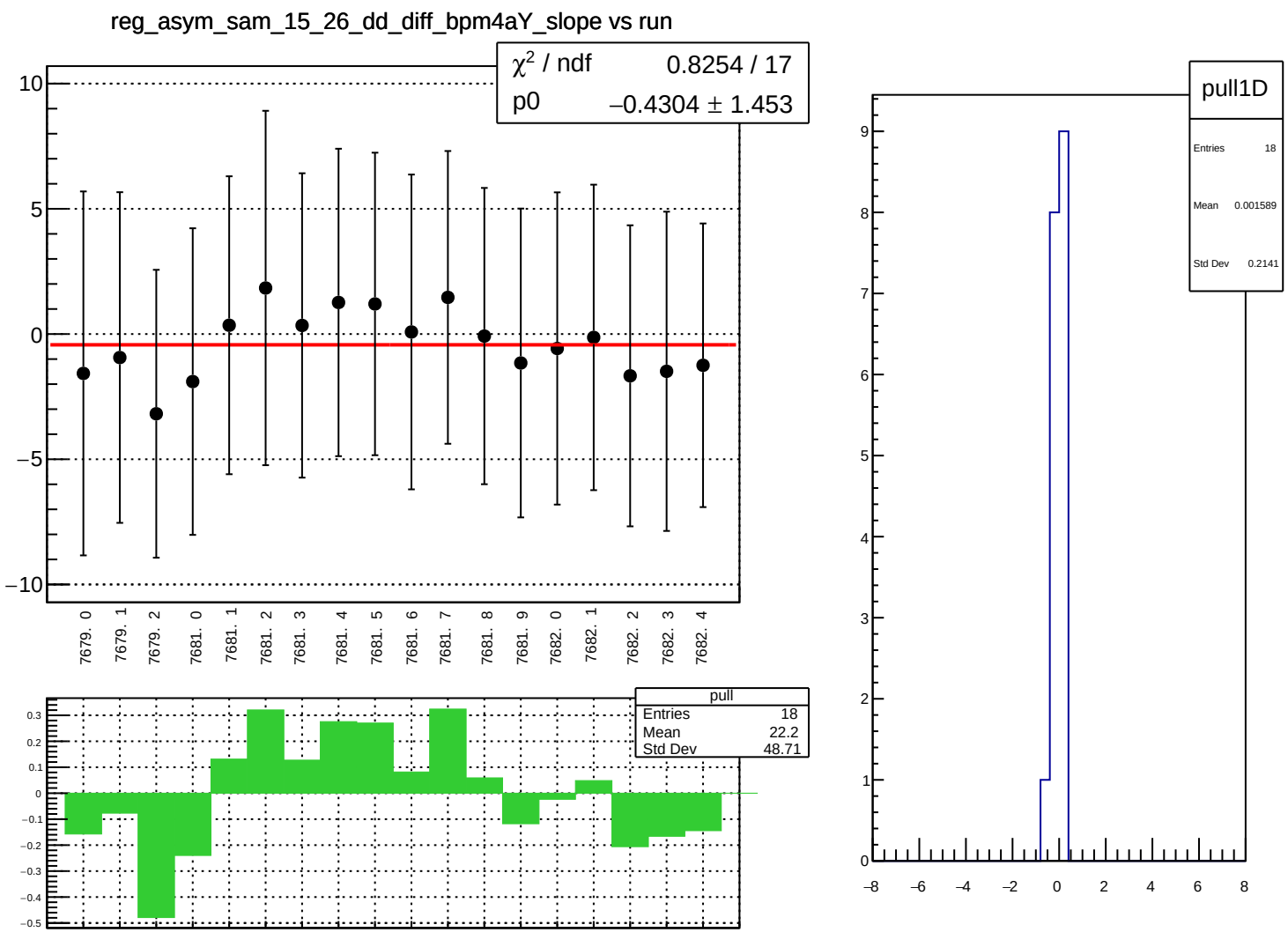

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.344 / 17
p0 −53.09 ± 1.287
−44
−46
−48
−50
−52
−54
−56
−58
−60
−62
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 8.435
Std Dev 15.95
0.4
0.2
0
−0.2
−0.4
−0.6

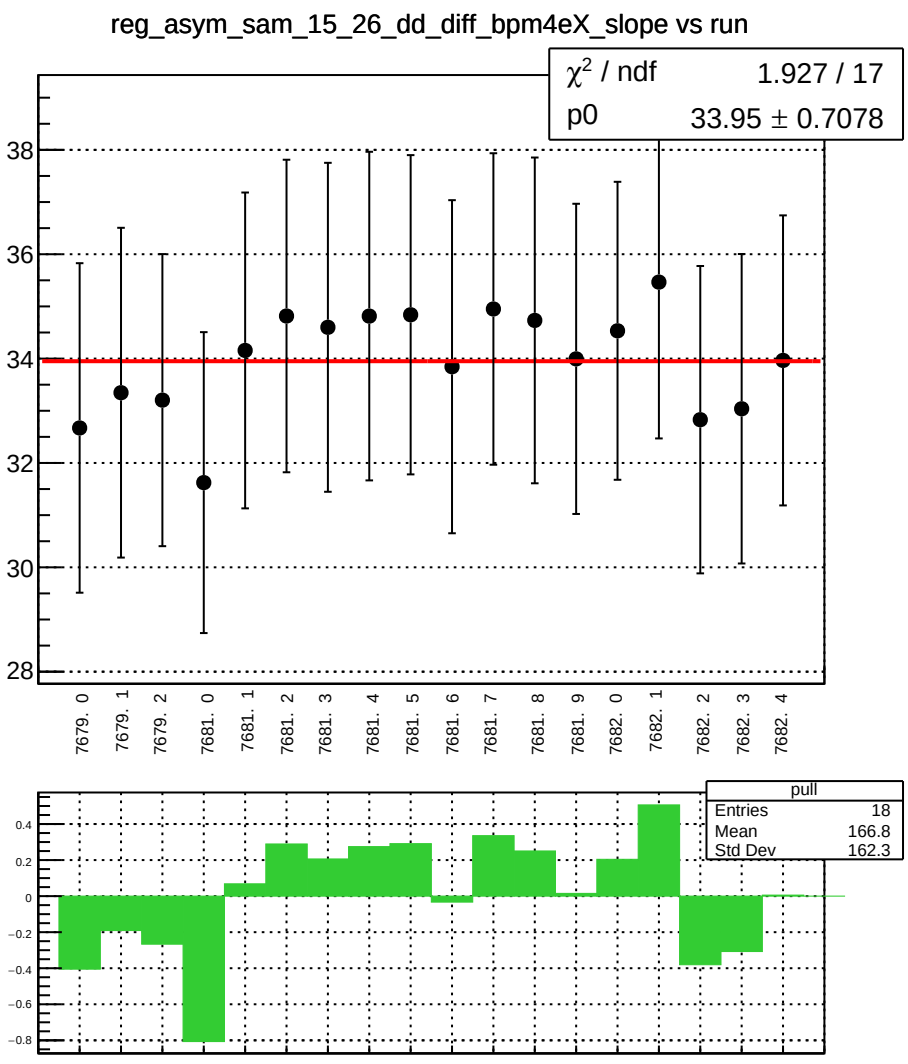

pull1D
Entries 18
Mean 0.01396
Std Dev 0.2729
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

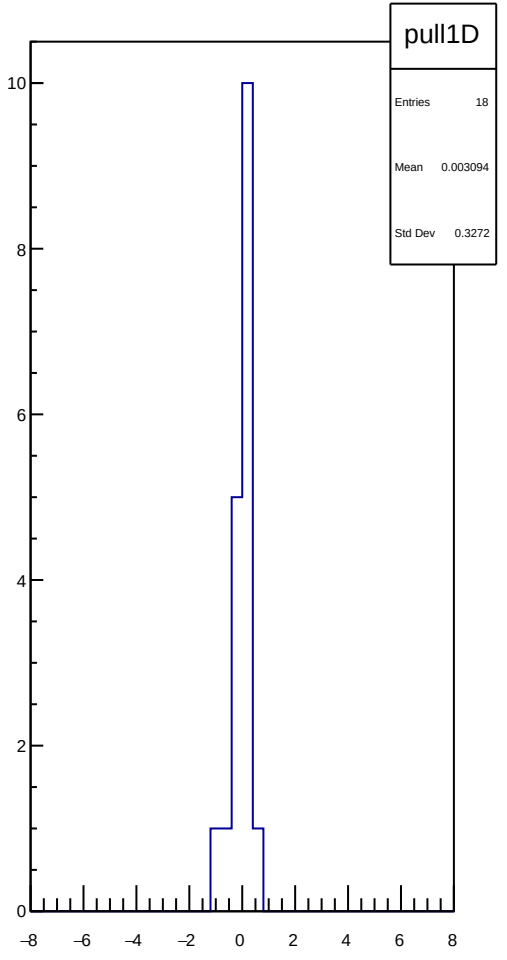

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 2.177 / 17
p0 0.3451 ± 0.0646
1
0.8
0.6
0.4
0.2
0
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 14.39
Std Dev 9.975
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

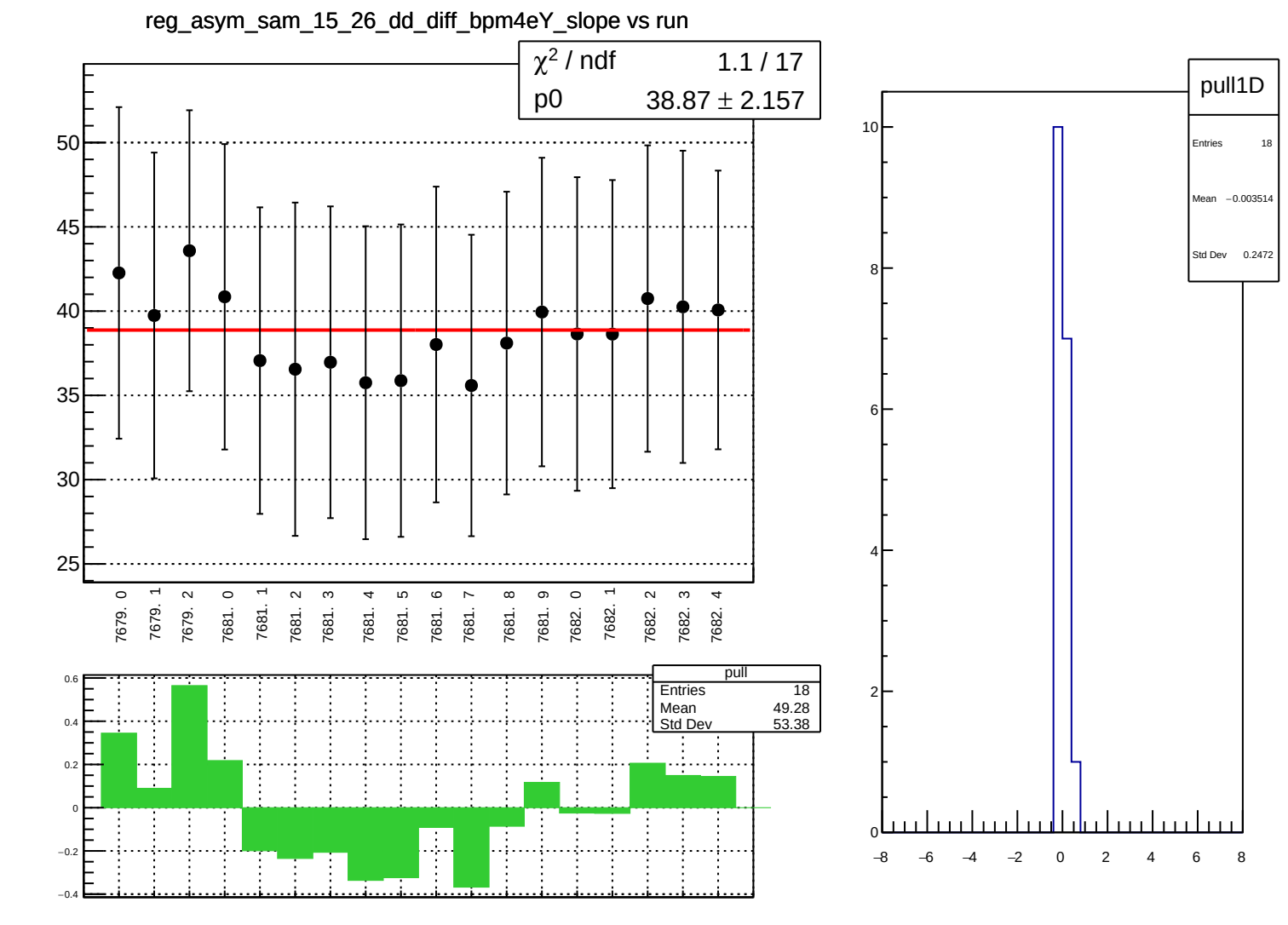

pull1D
Entries 18
Mean 0.03756
Std Dev 0.3458
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

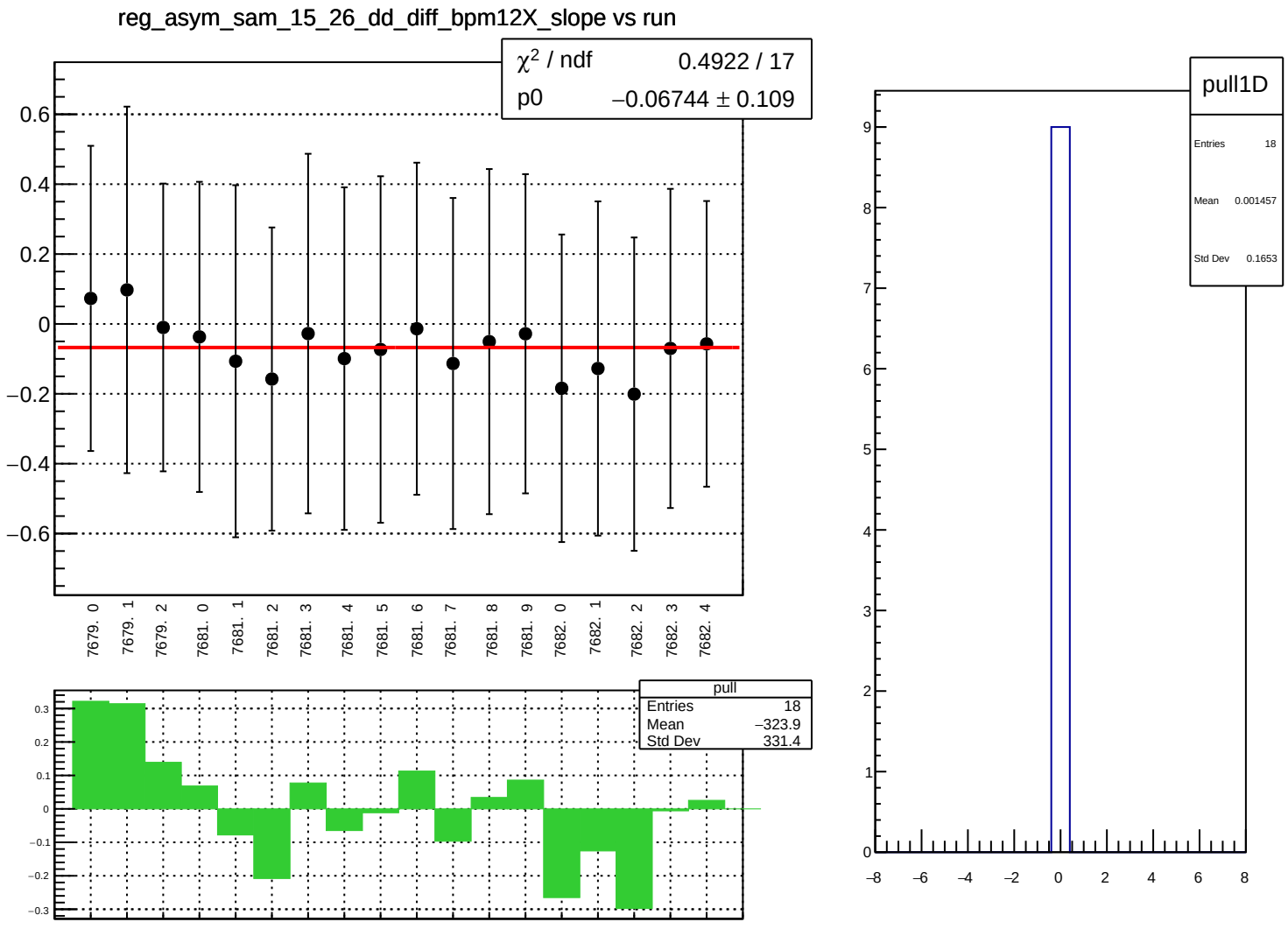

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 2.288 / 17
p0 −3.526 ± 0.8735
2
0
−2
−4
−6
−8
−10
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 178.8
Std Dev 174.3
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 18
Mean −0.00345
Std Dev 0.3565
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

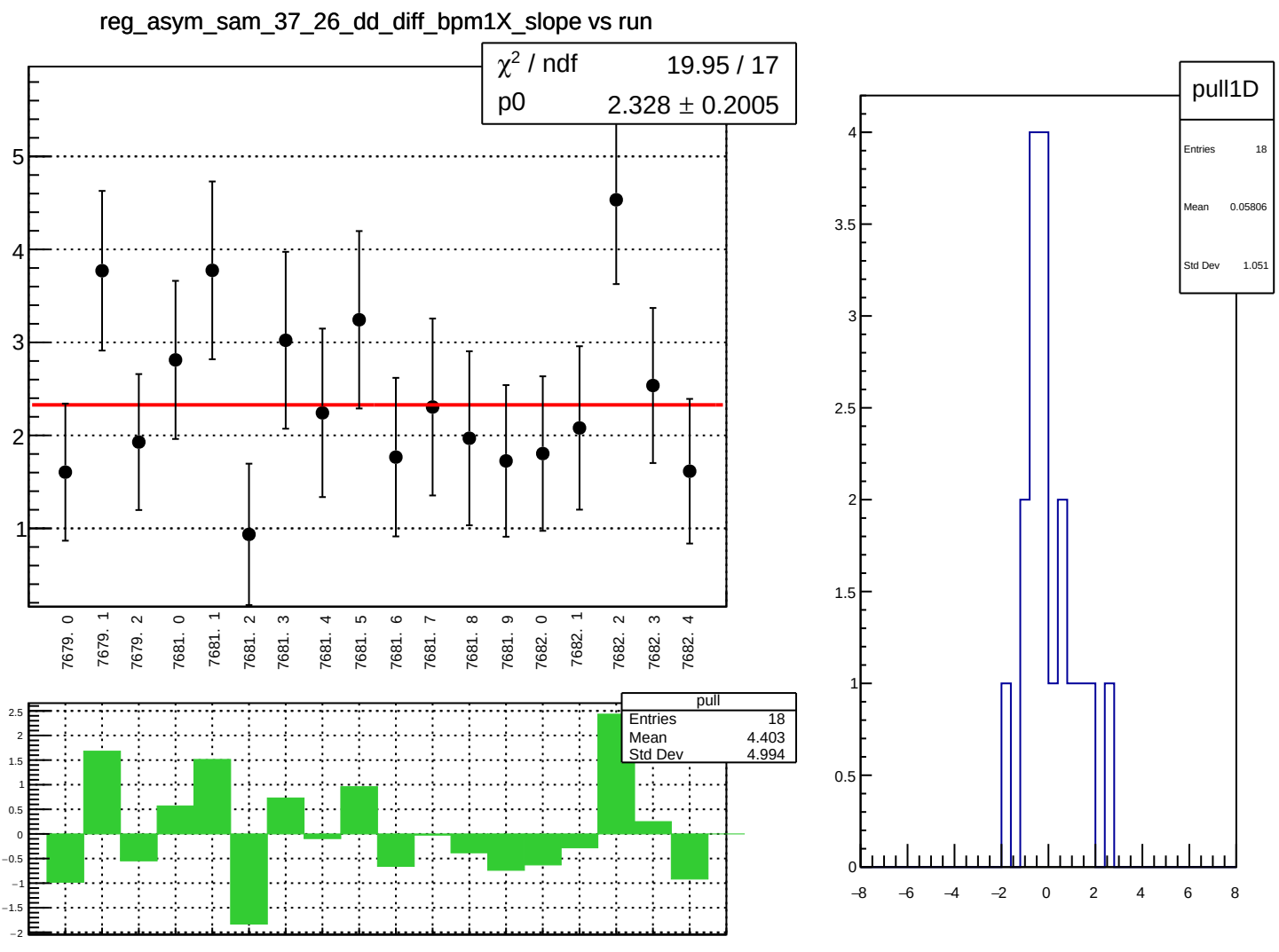

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.8254 / 17
p0 −0.4304 ± 1.453
10
5
0
−5
−10
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 22.2
Std Dev 48.71
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
pull1D
Entries 18
Mean 0.001589
Std Dev 0.2141
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

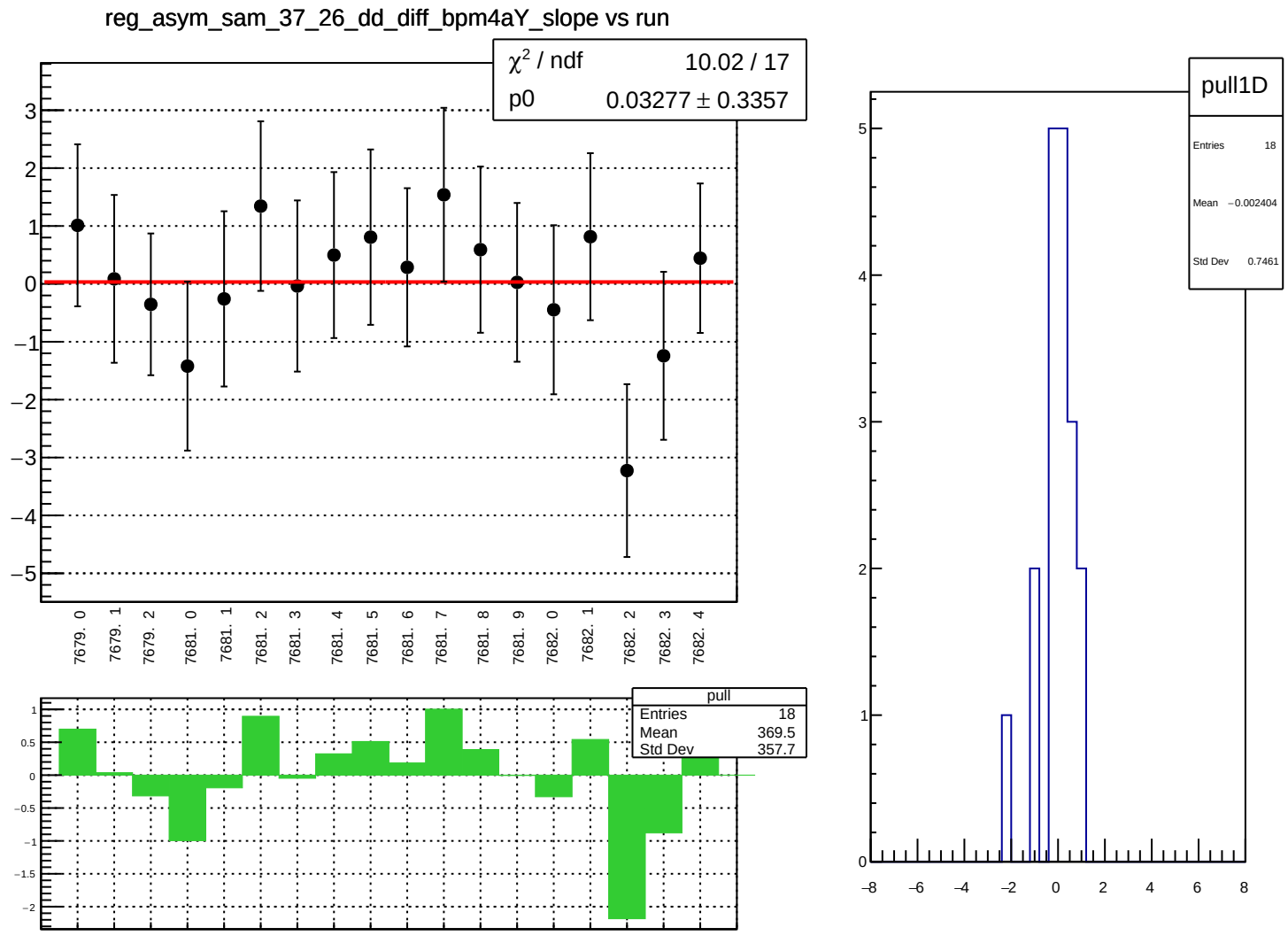

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.927 / 17
p0 33.95 ± 0.7078
38
36
34
32
30
28
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 166.8
Std Dev 162.3
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

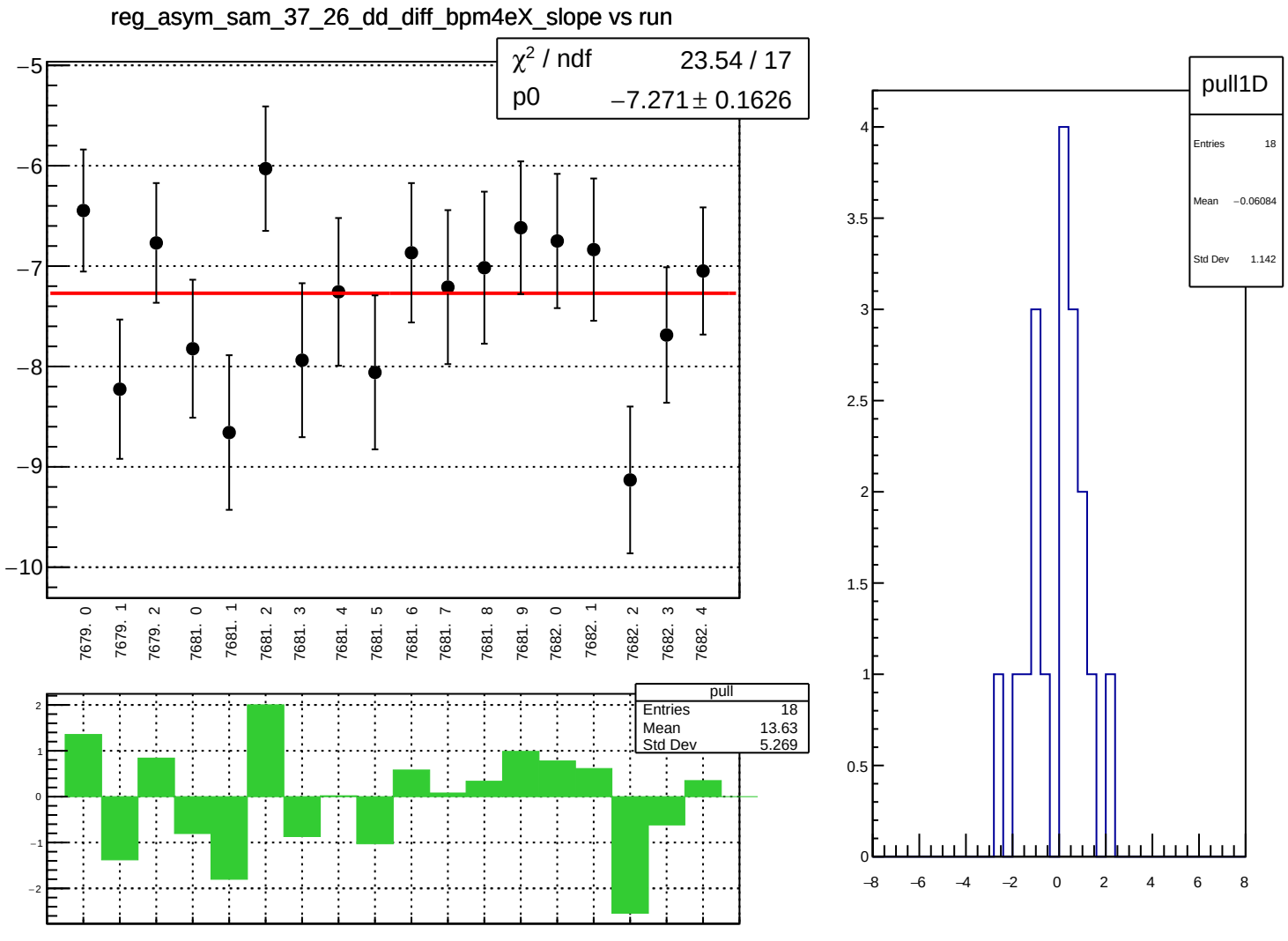

pull1D
Entries 18
Mean 0.003094
Std Dev 0.3272
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

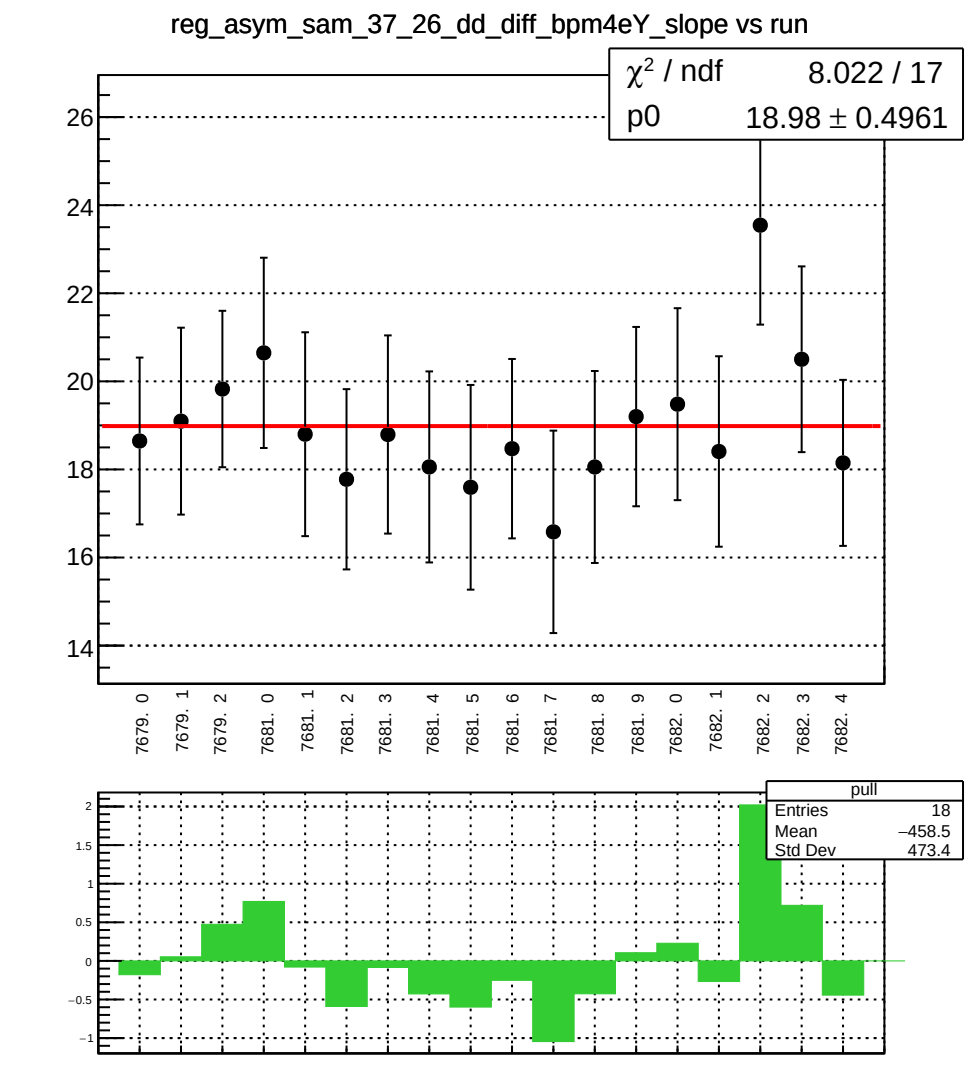

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.1 / 17
p0 38.87 ± 2.157
50
45
40
35
30
25
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 49.28
Std Dev 53.38
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 18
Mean −0.003514
Std Dev 0.2472
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

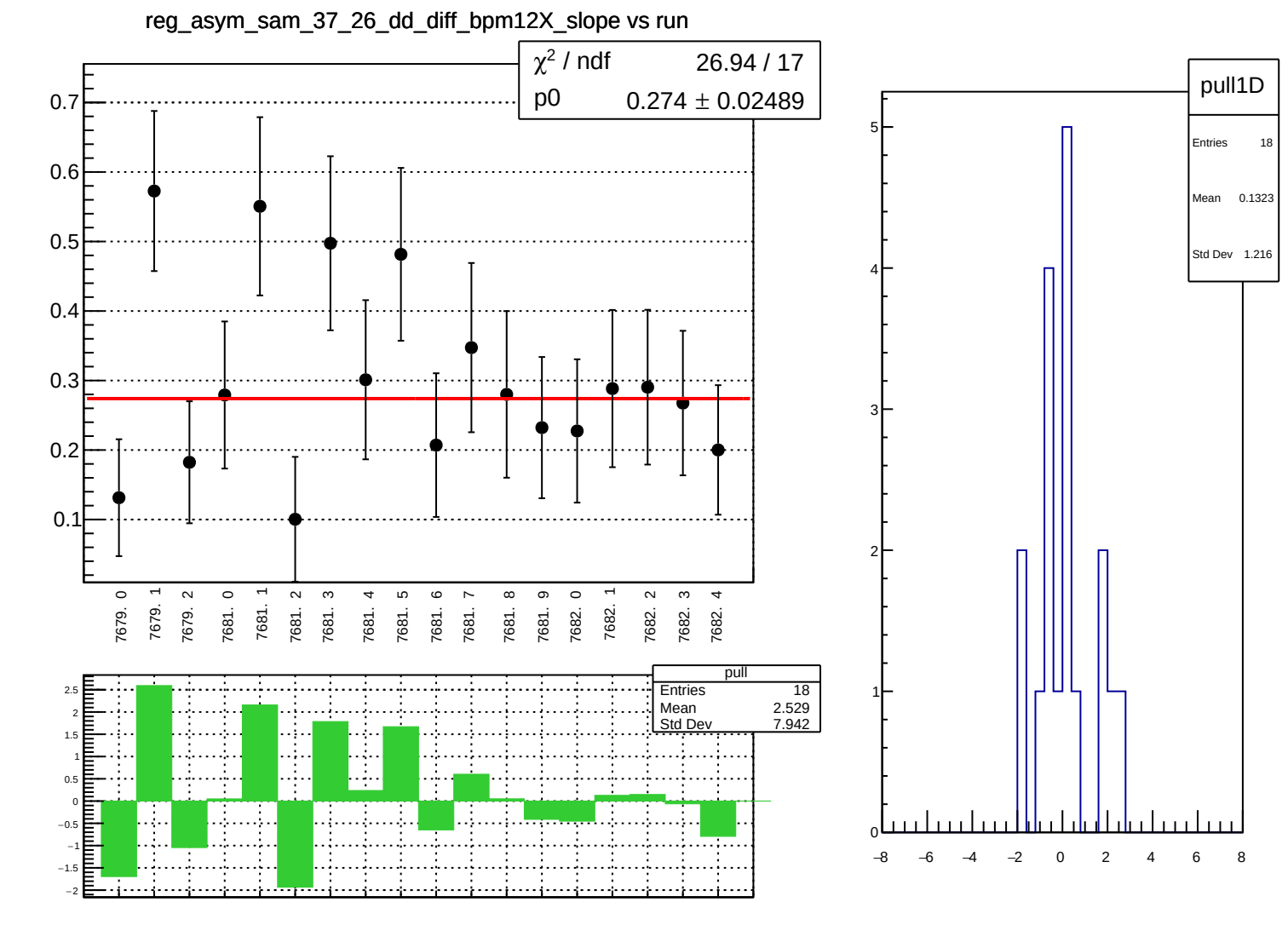

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 0.4922 / 17
p0 −0.06744 ± 0.109
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −323.9
Std Dev 331.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 18
Mean 0.001457
Std Dev 0.1653
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

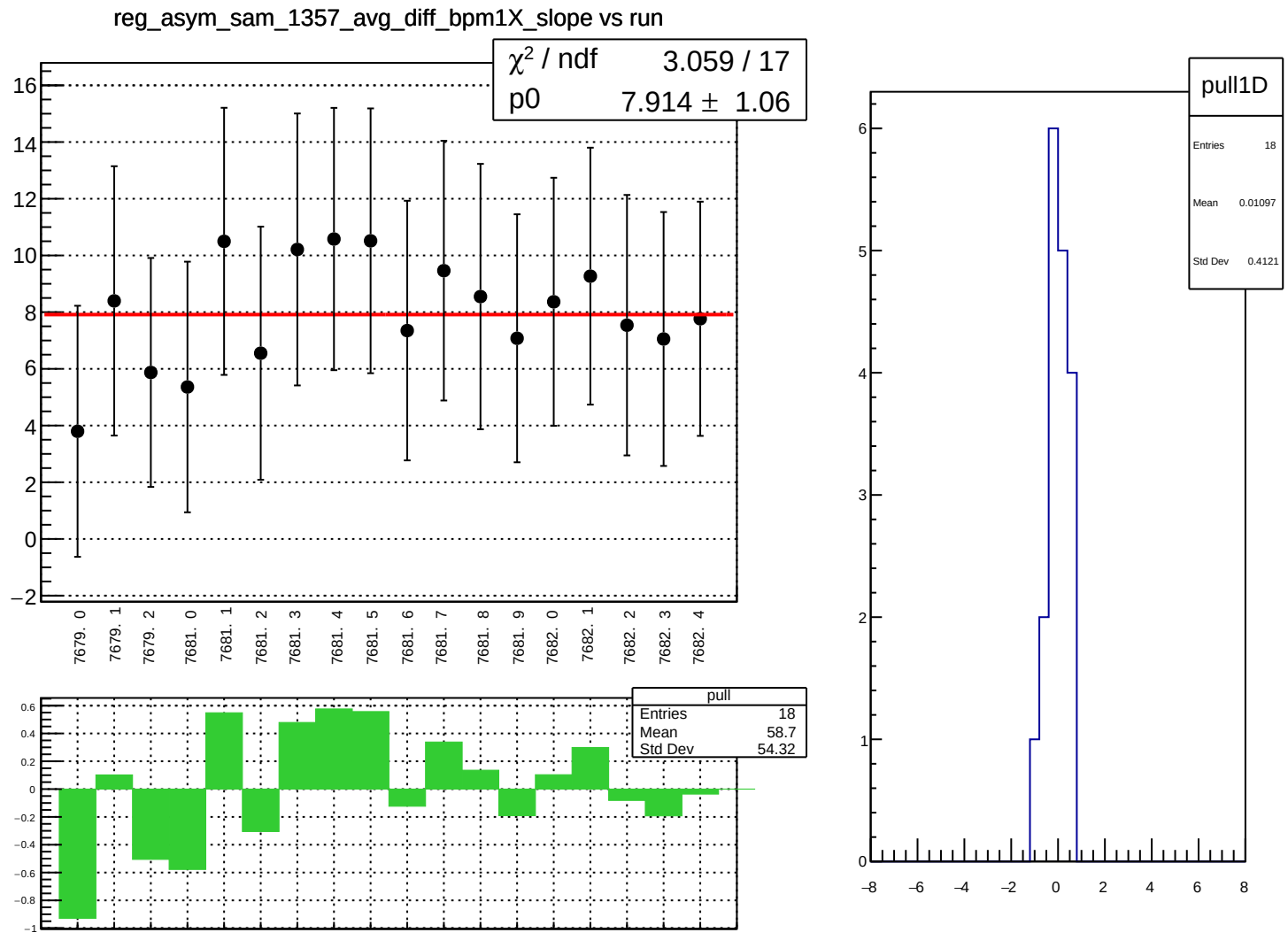

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 19.95 / 17
p0 2.328 ± 0.2005
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 4.403
Std Dev 4.994
pull1D
Entries 18
Mean 0.05806
Std Dev 1.051

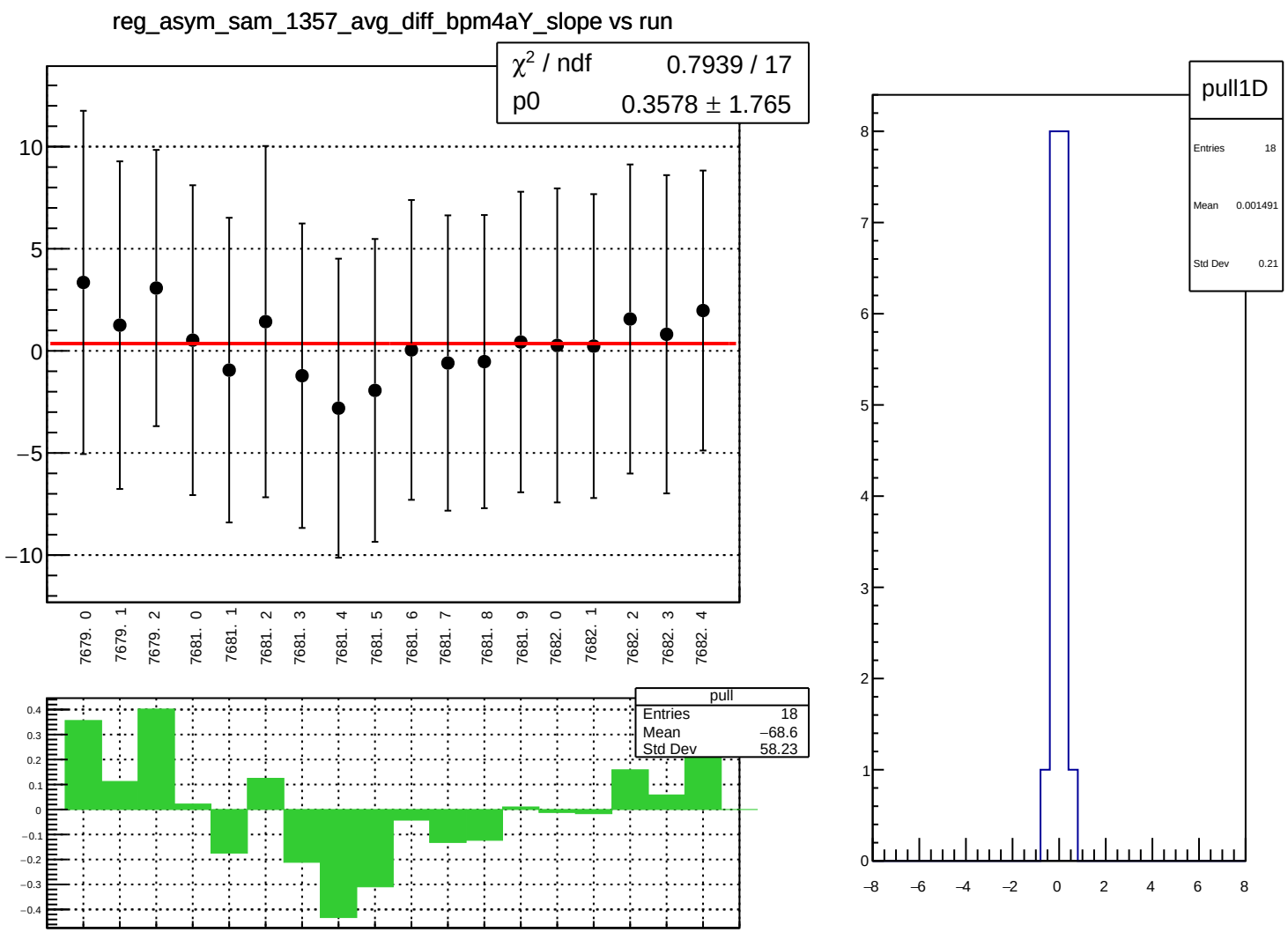

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.02 / 17
p0 0.03277 ± 0.3357
3
2
1
0
−1
−2
−3
−4
−5
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 369.5
Std Dev 357.7
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 18
Mean −0.002404
Std Dev 0.7461
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

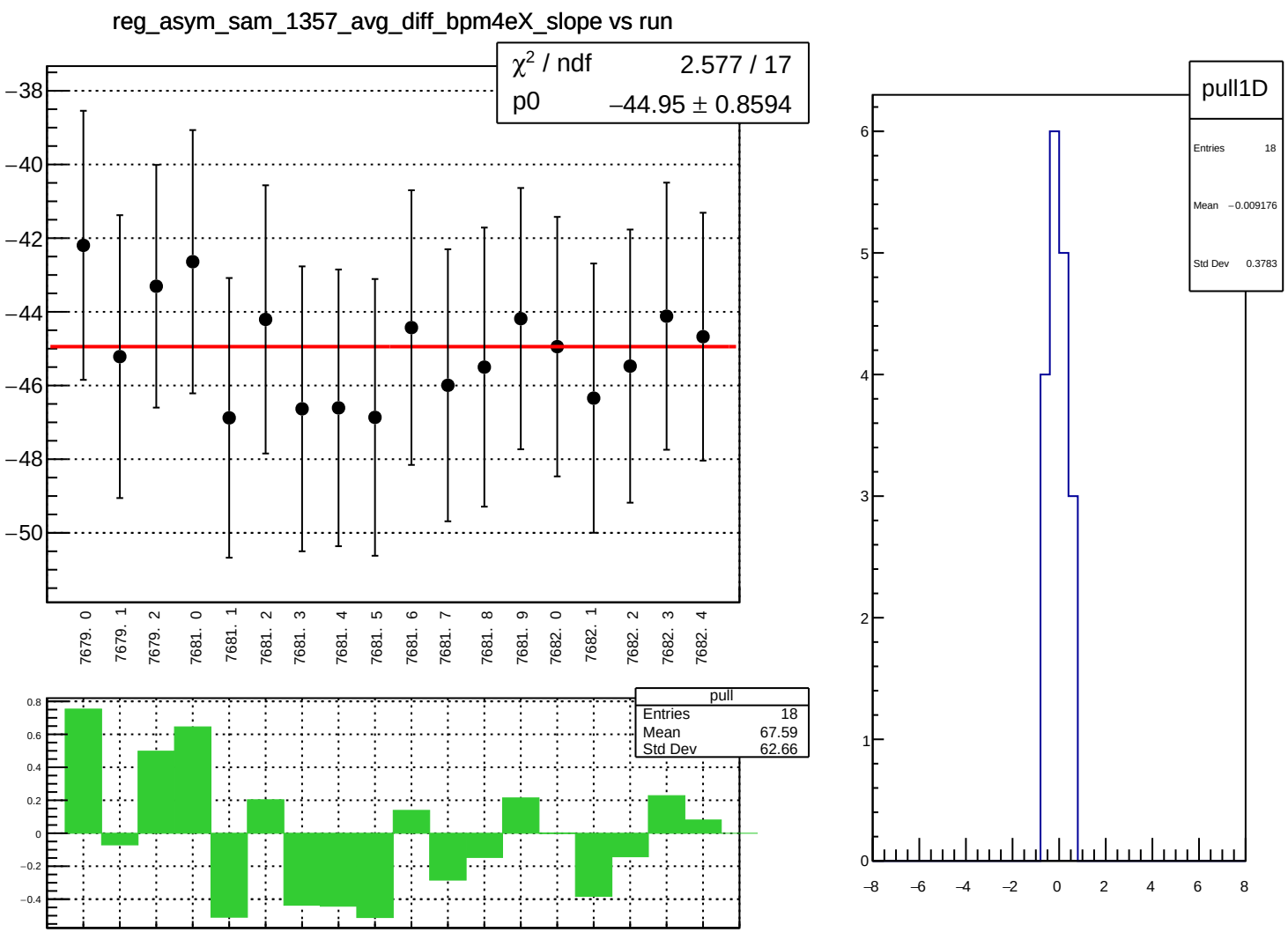

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 23.54 / 17
p0 −7.271 ± 0.1626
−5
−6
−7
−8
−9
−10
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 13.63
Std Dev 5.269
2
1
0
−1
−2
pull1D
Entries 18
Mean −0.06084
Std Dev 1.142
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

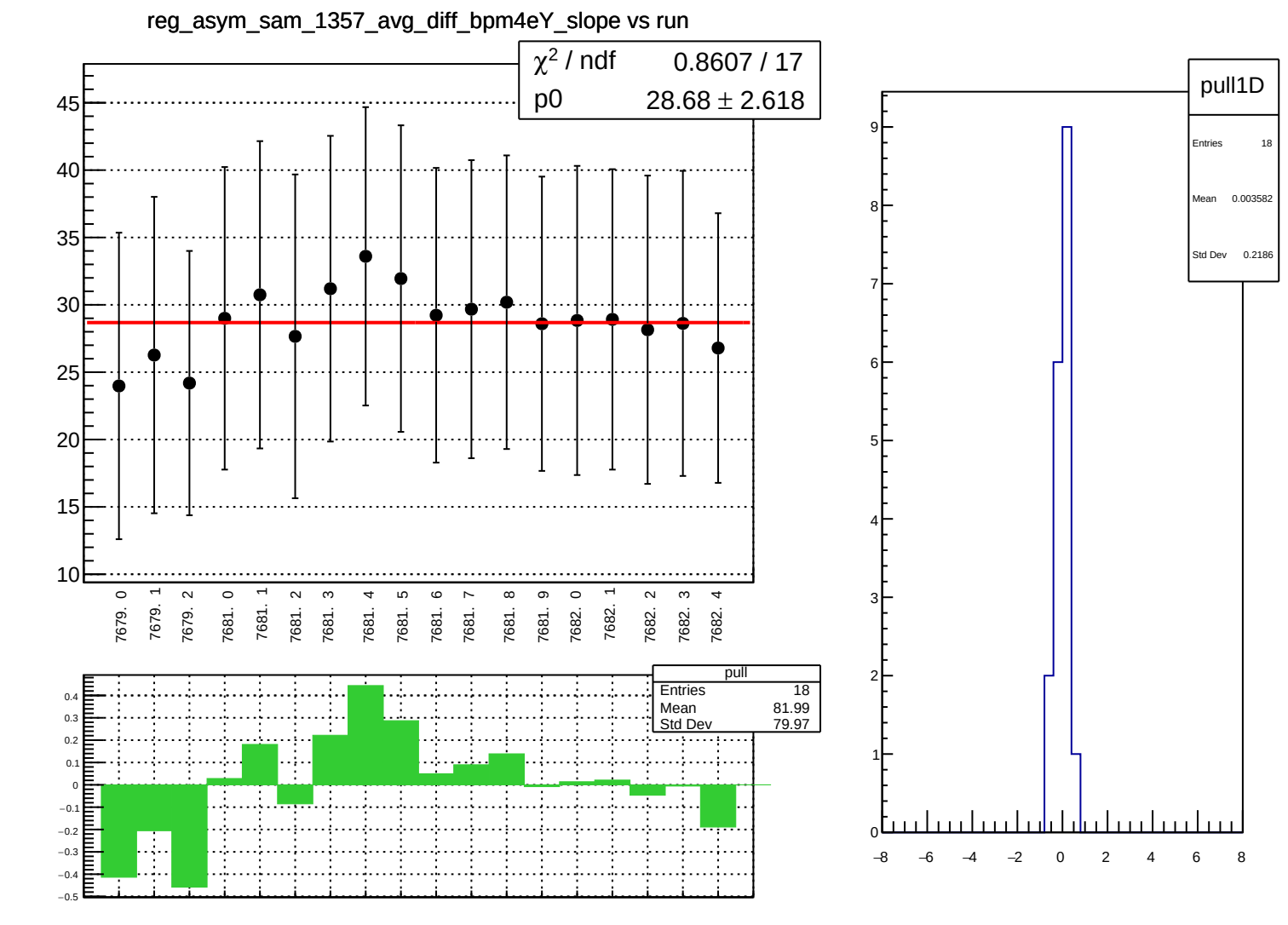

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.022 / 17
p0 18.98 ± 0.4961
26
24
22
20
18
16
14
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −458.5
Std Dev 473.4
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 18
Mean −0.001107
Std Dev 0.6676
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

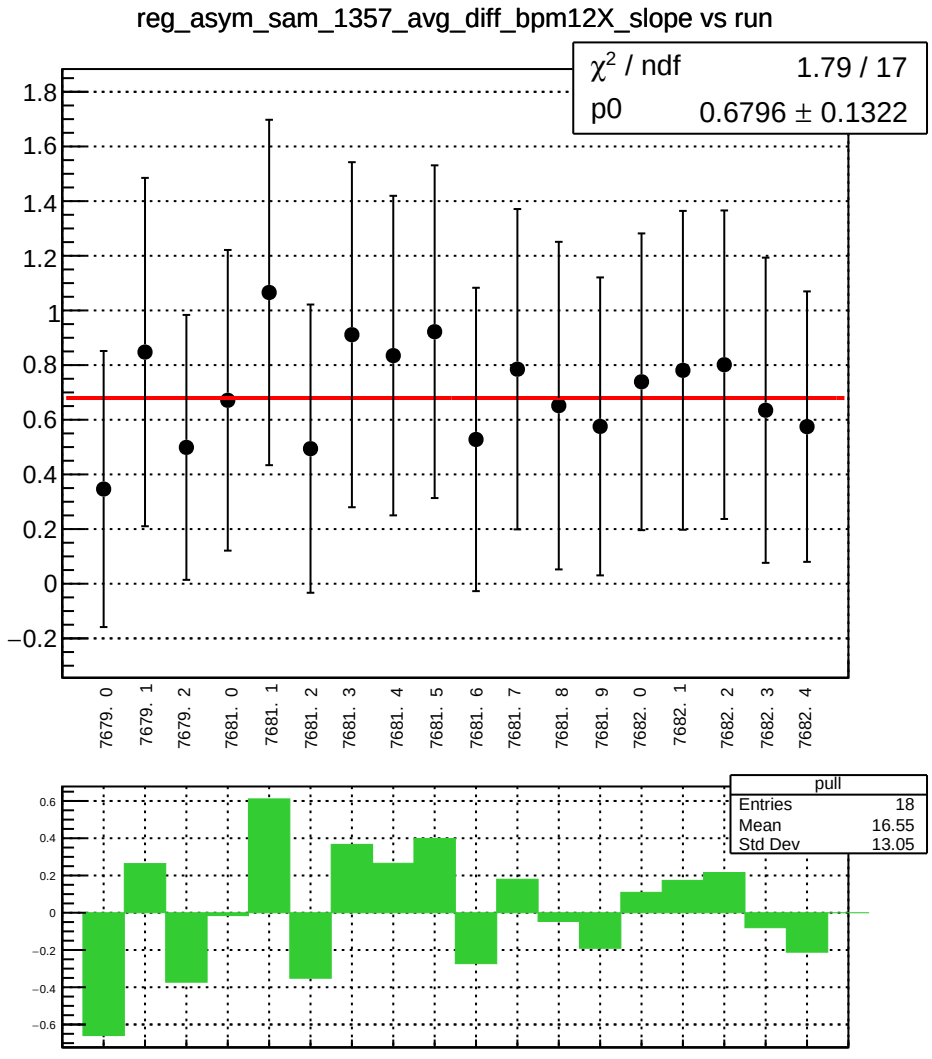

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 26.94 / 17
p0 0.274 ± 0.02489
0.7
0.6
0.5
0.4
0.3
0.2
0.1
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 2.529
Std Dev 7.942
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 18
Mean 0.1323
Std Dev 1.216
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

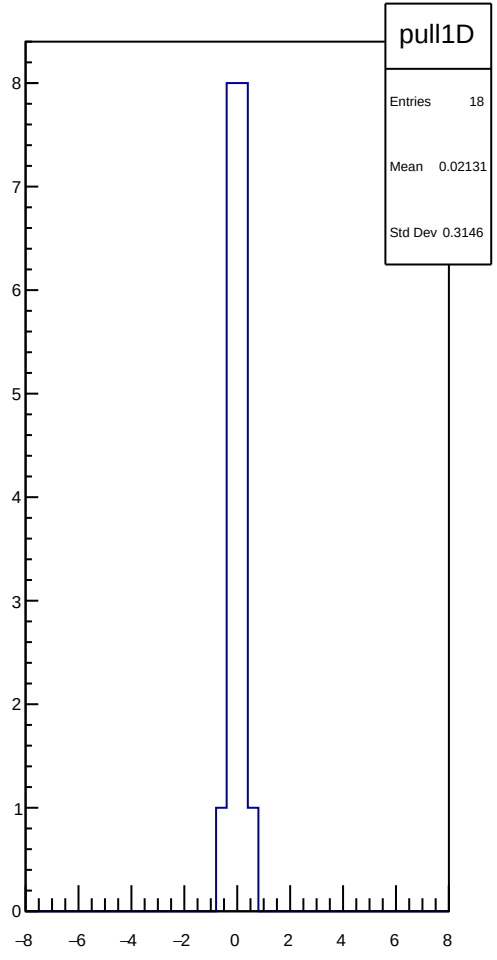

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 3.059 / 17
p0 7.914 ± 1.06
16
14
12
10
8
6
4
2
0
−2
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 58.7
Std Dev 54.32
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 18
Mean 0.01097
Std Dev 0.4121
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

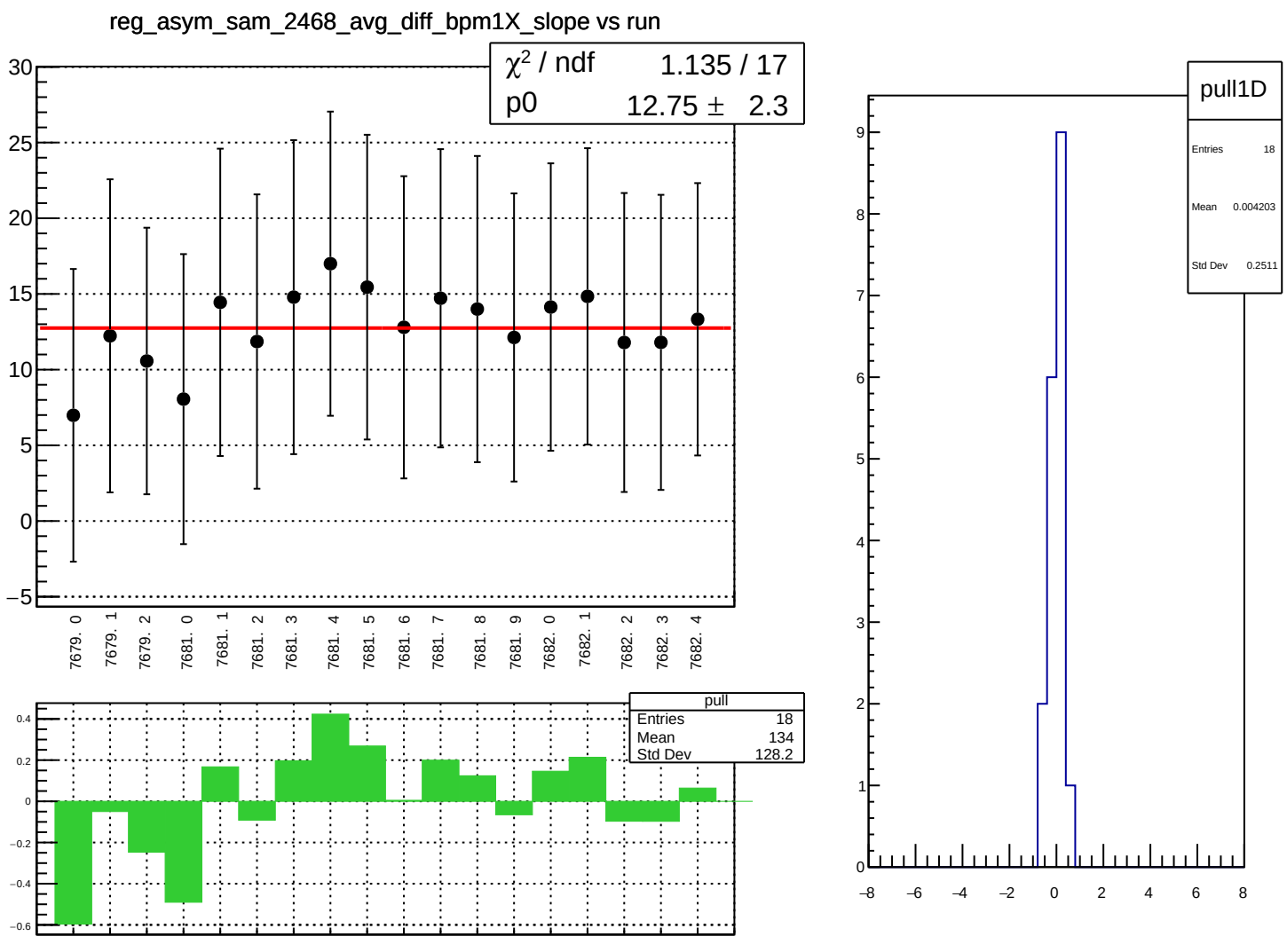

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.7939 / 17
p0 0.3578 ± 1.765
10
5
0
−5
−10
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −68.6
Std Dev 58.23
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 18
Mean 0.001491
Std Dev 0.21
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

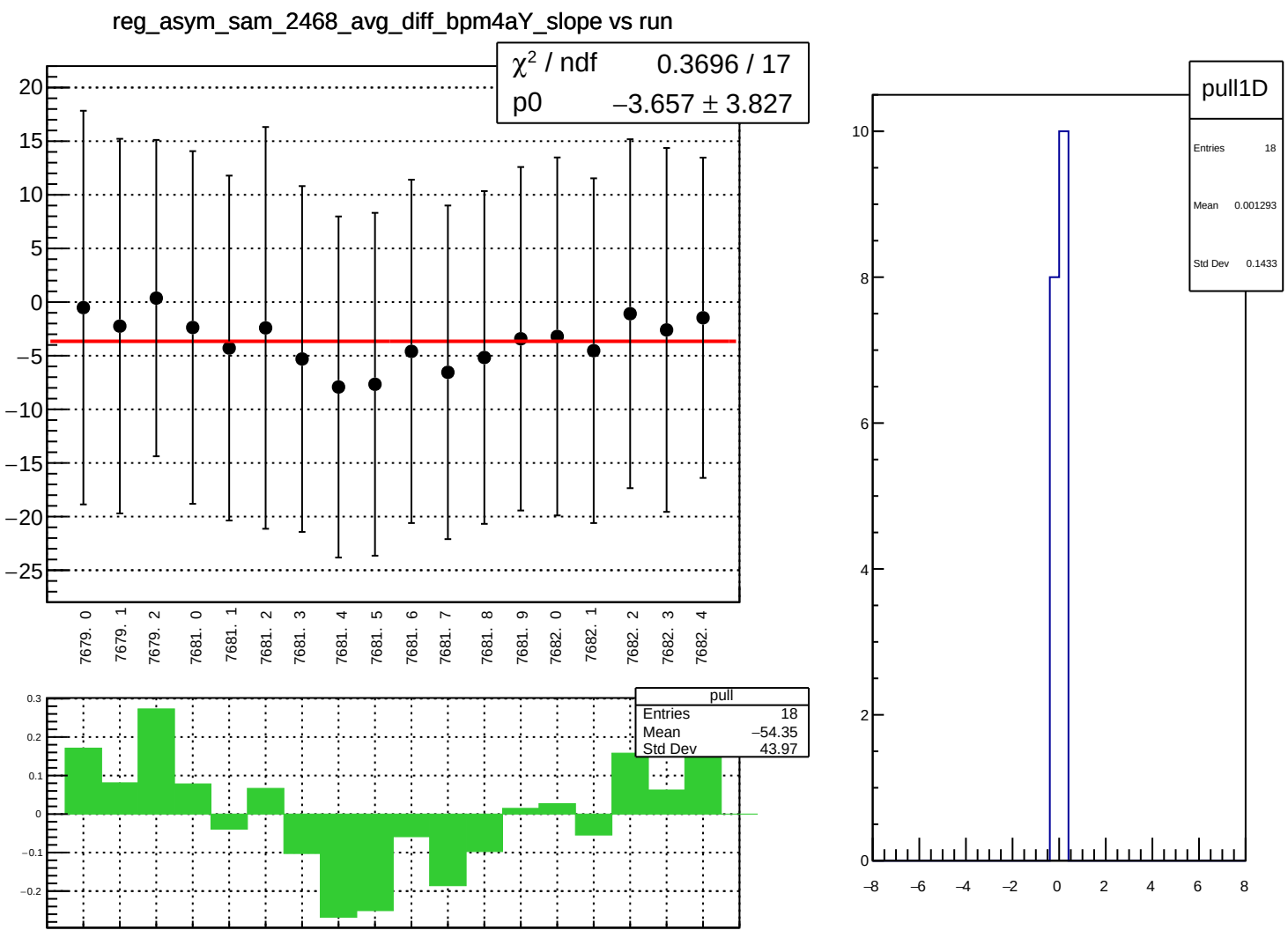

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.577 / 17
p0 −44.95 ± 0.8594
−38
−40
−42
−44
−46
−48
−50
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 67.59
Std Dev 62.66
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 18
Mean −0.009176
Std Dev 0.3783
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

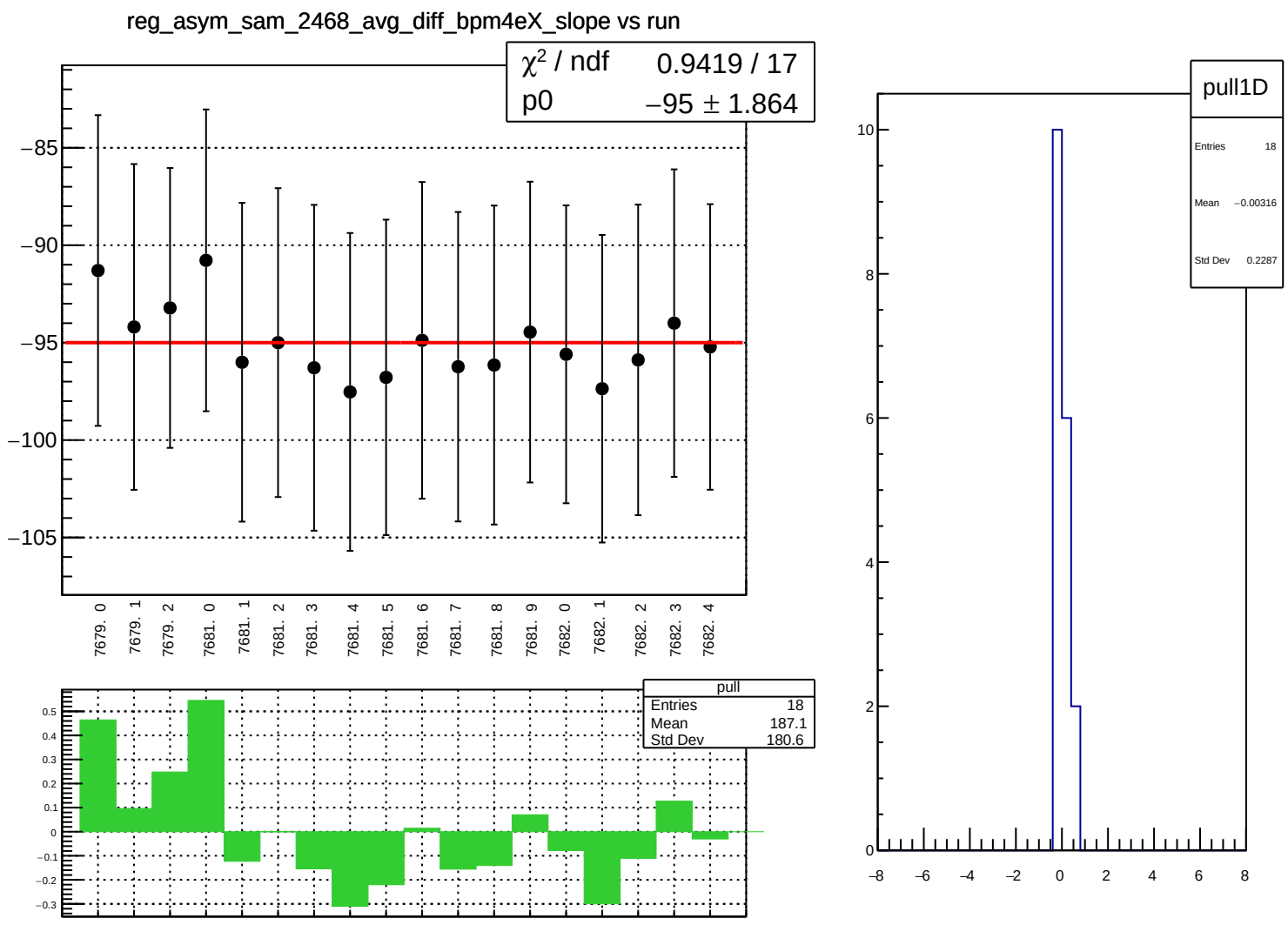

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.8607 / 17
p0 28.68 ± 2.618
45
40
35
30
25
20
15
10
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 81.99
Std Dev 79.97
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
pull1D
Entries 18
Mean 0.003582
Std Dev 0.2186
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

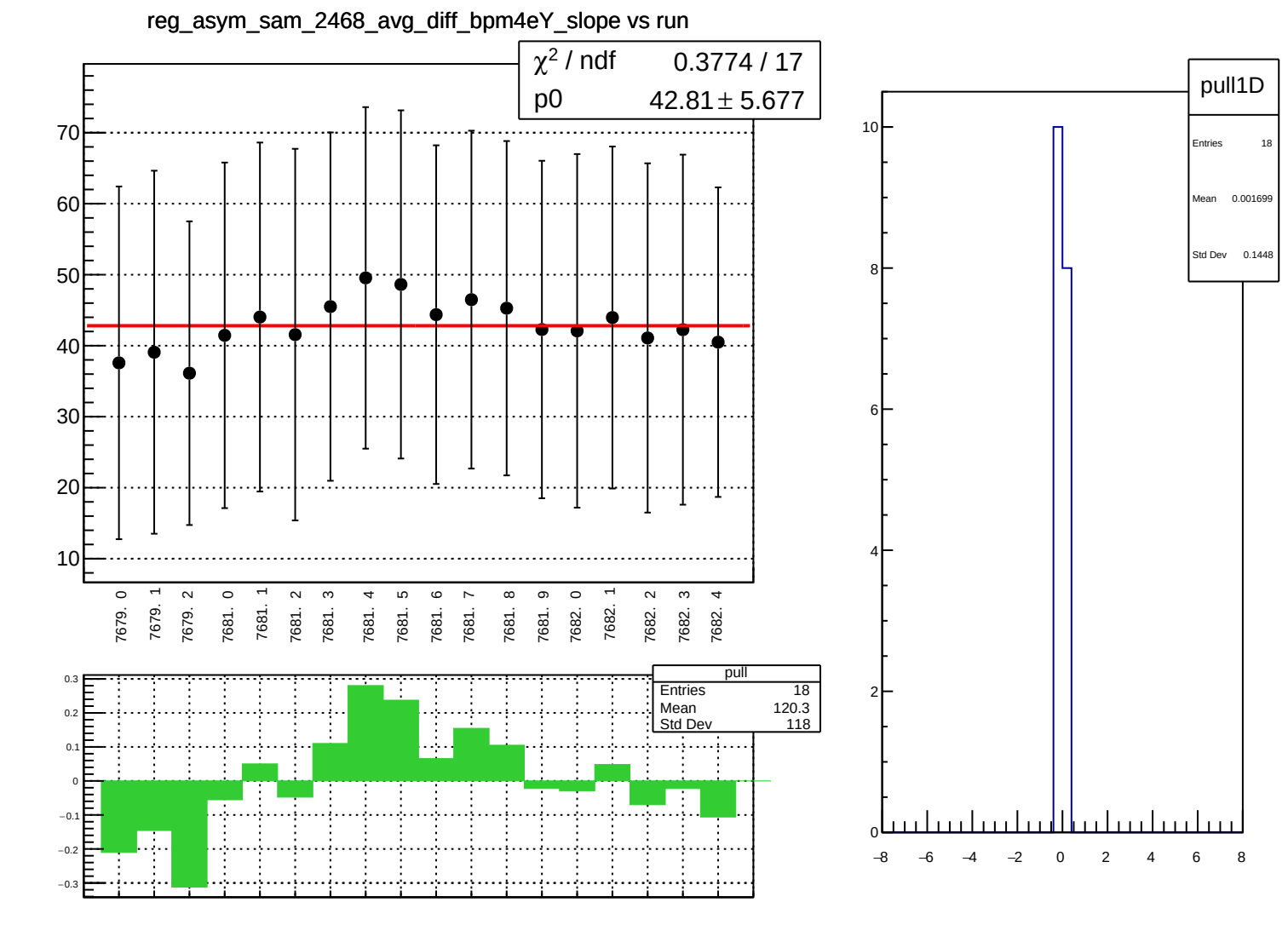

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 1.79 / 17
p0 0.6796 ± 0.1322
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 16.55
Std Dev 13.05
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

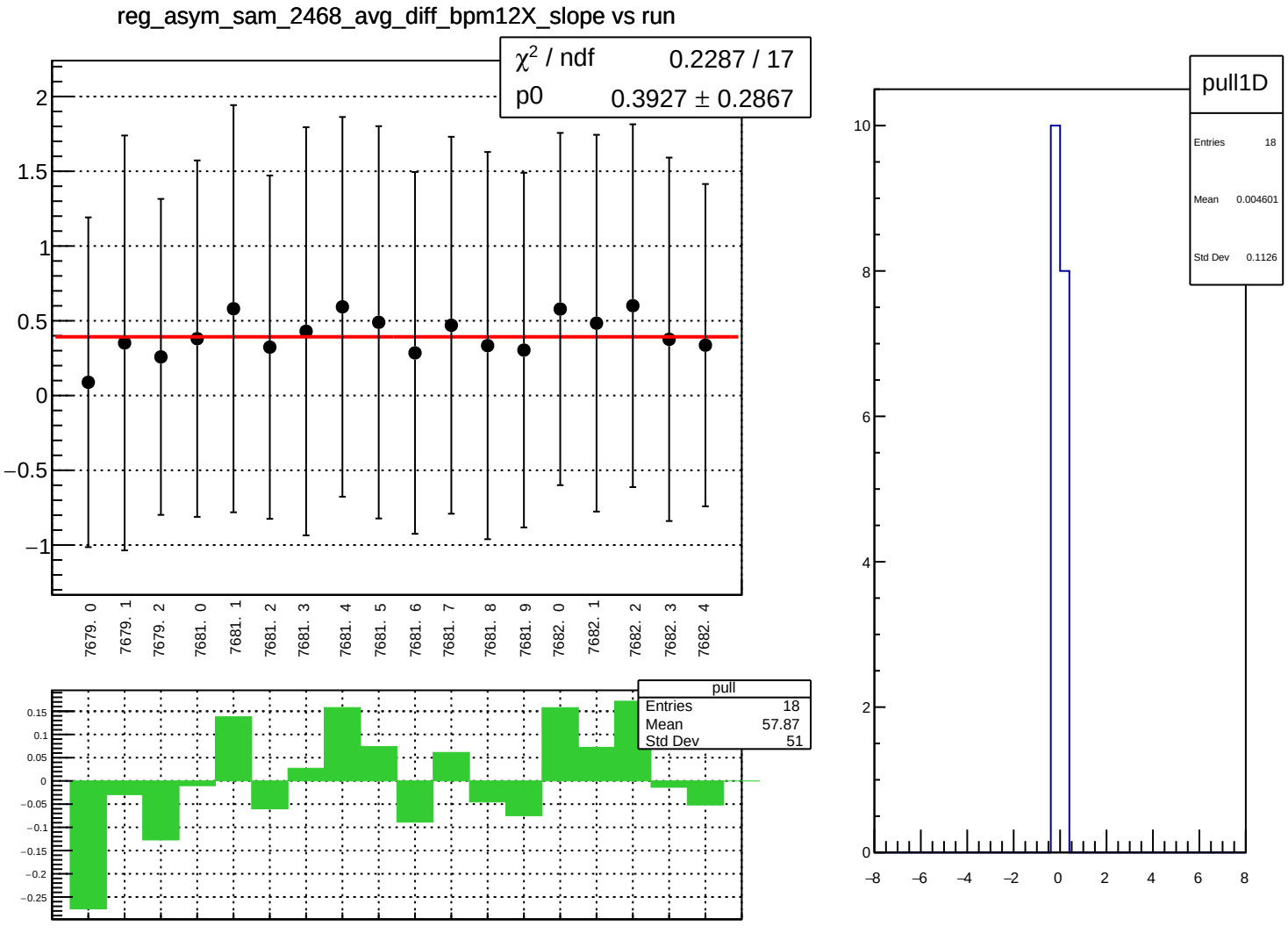

pull1D
Entries 18
Mean 0.02131
Std Dev 0.3146
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

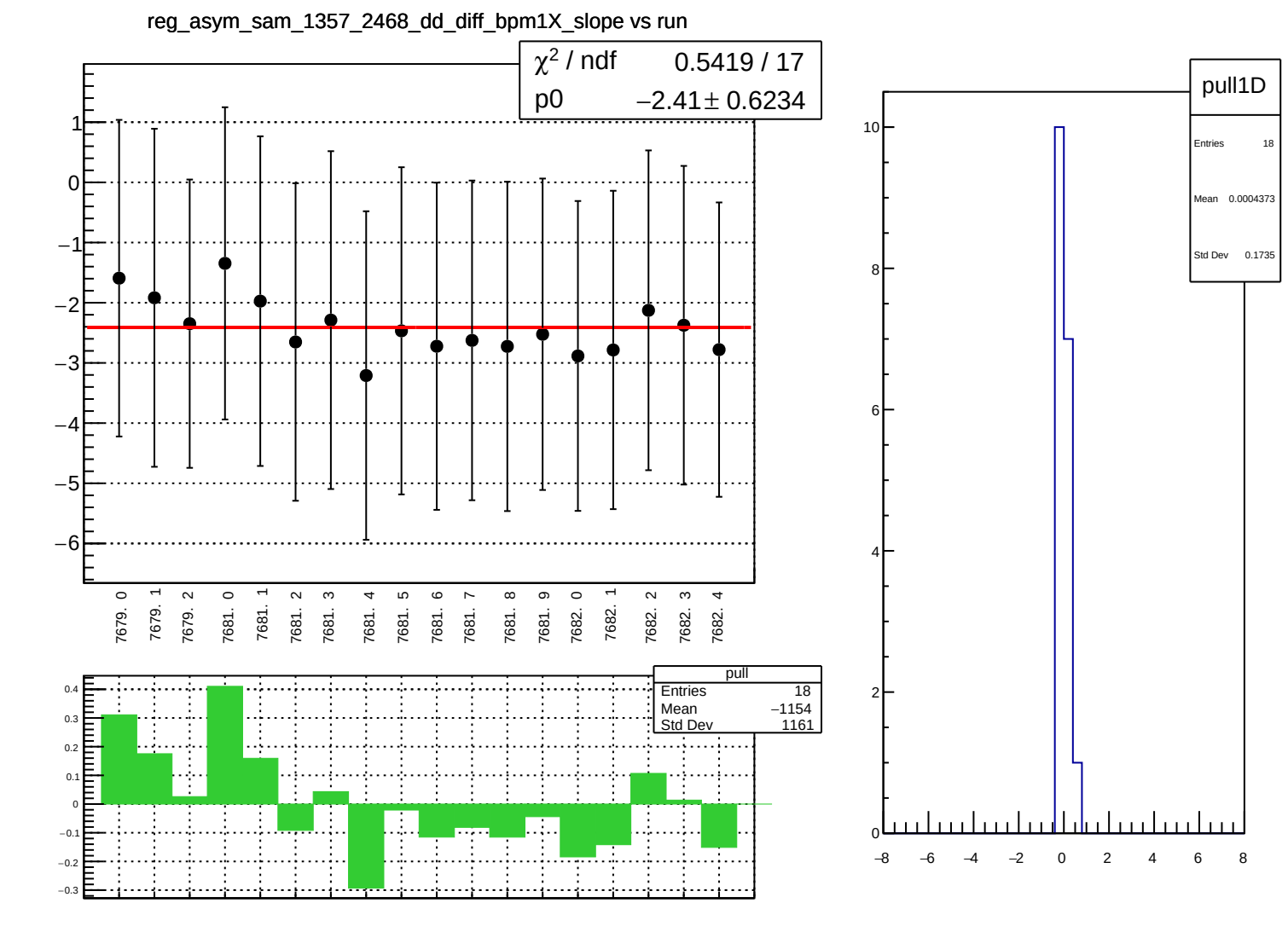

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 1.135 / 17
p0 12.75 ± 2.3
30
25
20
15
10
5
0
−5
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 134
Std Dev 128.2
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 18
Mean 0.004203
Std Dev 0.2511
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

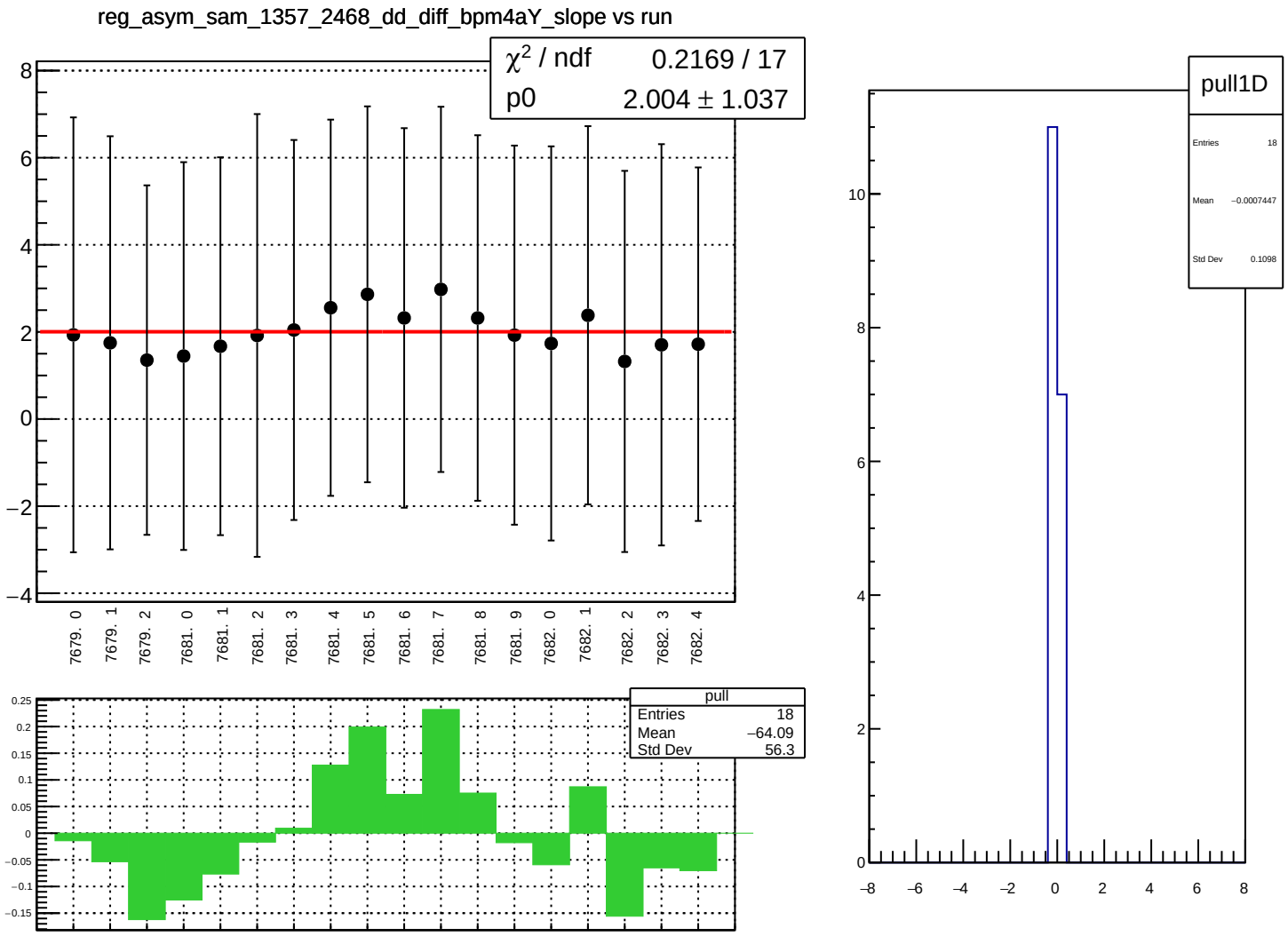

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.3696 / 17
p0 −3.657 ± 3.827
20
15
10
5
0
−5
−10
−15
−20
−25
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −54.35
Std Dev 43.97
0.3
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 18
Mean 0.001293
Std Dev 0.1433
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

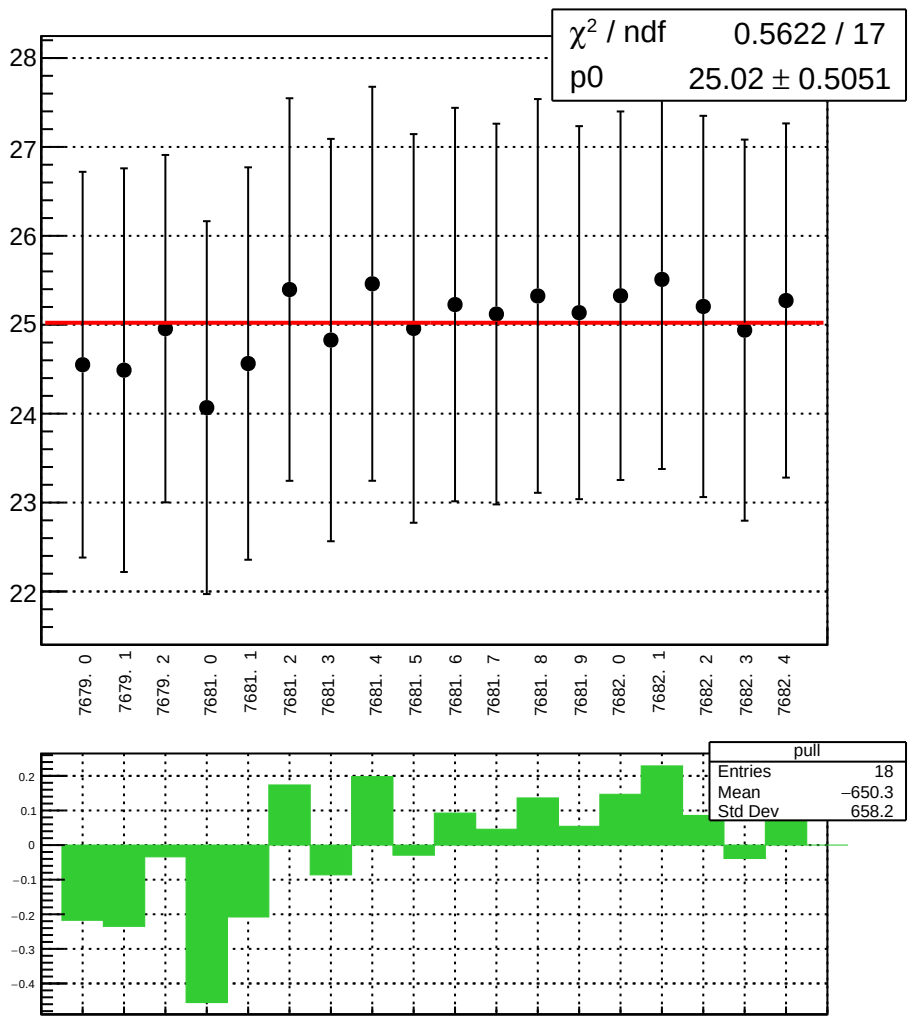

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 0.9419 / 17
p0 −95 ± 1.864
−85
−90
−95
−100
−105
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 187.1
Std Dev 180.6
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 18
Mean −0.00316
Std Dev 0.2287
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

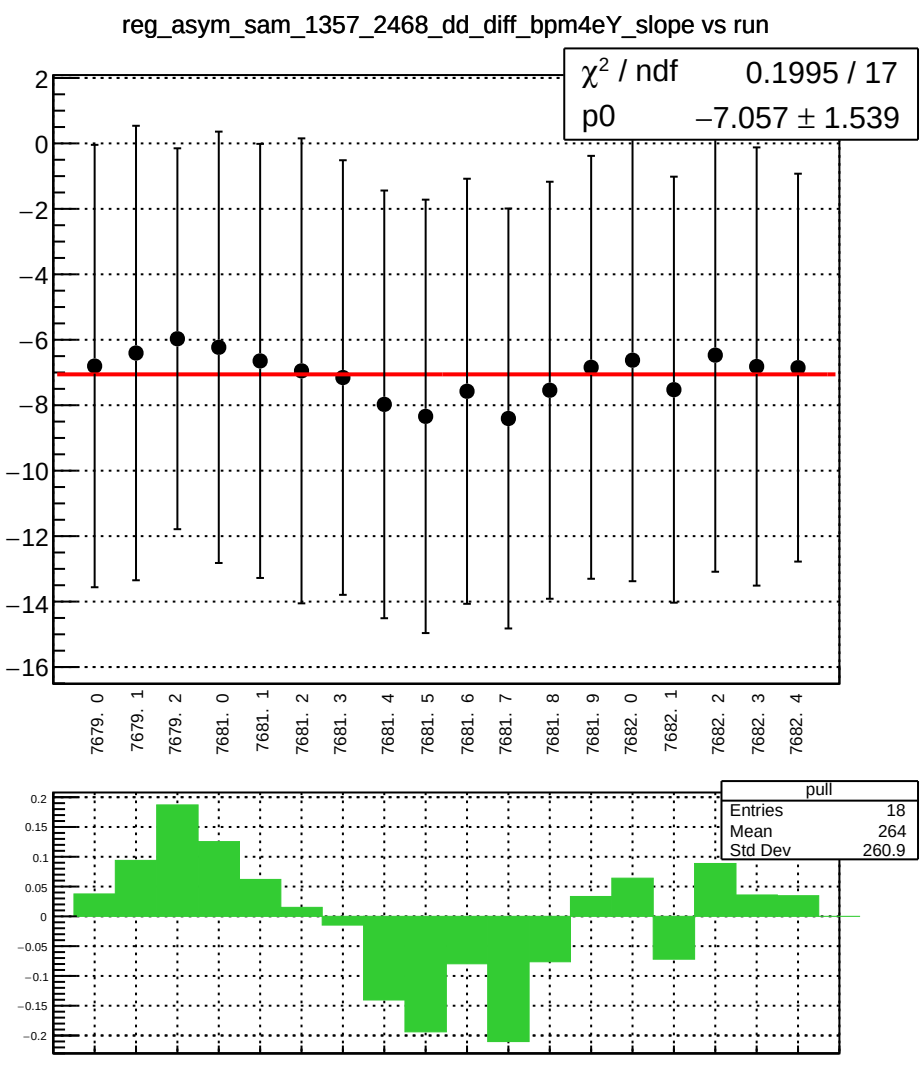

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.3774 / 17
p0 42.81 ± 5.677
70
60
50
40
30
20
10
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 120.3
Std Dev 118
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 18
Mean 0.001699
Std Dev 0.1448
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

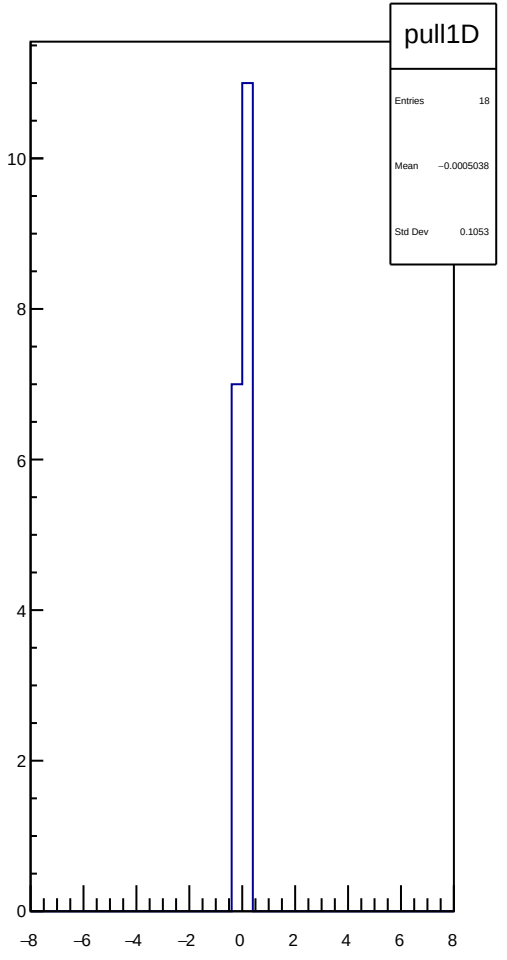

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 0.2287 / 17
p0 0.3927 ± 0.2867
2
1.5
1
0.5
0
−0.5
−1
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 57.87
Std Dev 51
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
−0.25
pull1D
Entries 18
Mean 0.004601
Std Dev 0.1126
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

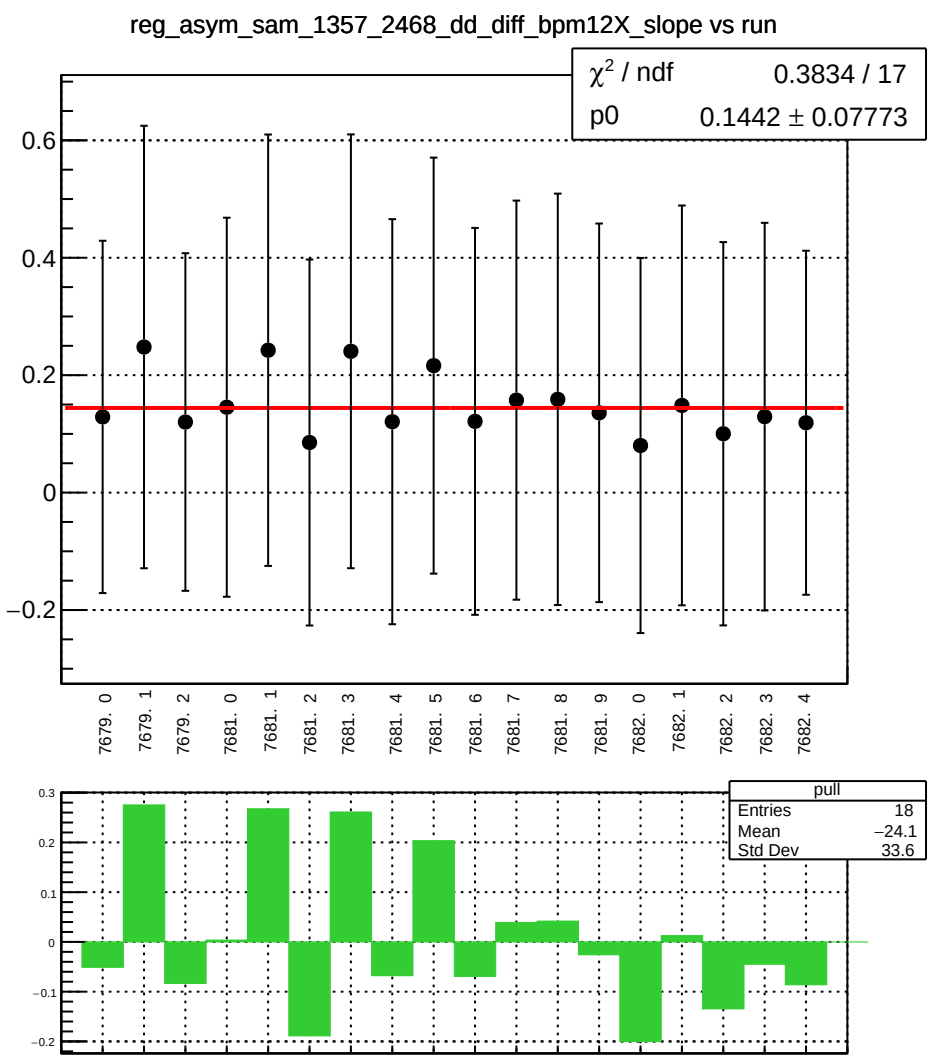

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 0.5419 / 17
p0 −2.41 ± 0.6234
1
0
−1
−2
−3
−4
−5
−6
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −1154
Std Dev 1161
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 18
Mean 0.0004373
Std Dev 0.1735
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

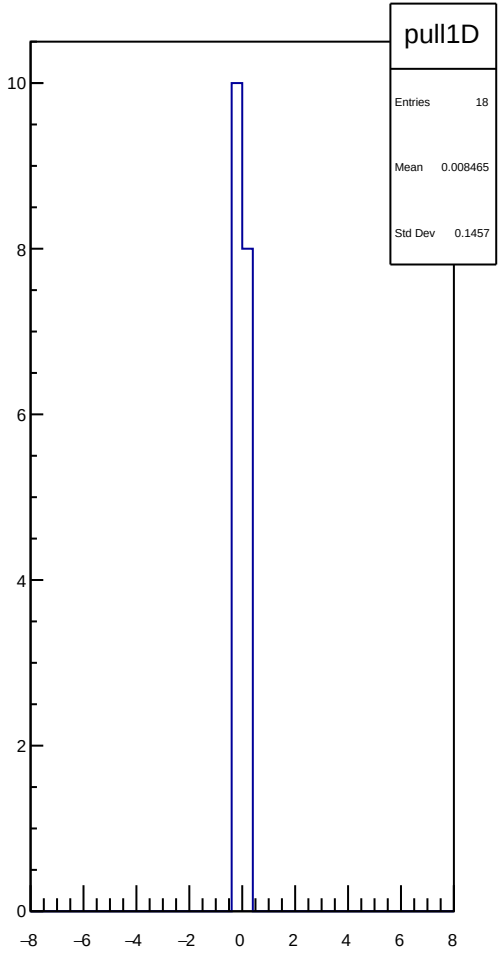

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.2169 / 17
p0 2.004 ± 1.037
8
6
4
2
0
−2
−4
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −64.09
Std Dev 56.3
0.25
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull1D
Entries 18
Mean −0.0007447
Std Dev 0.1098
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

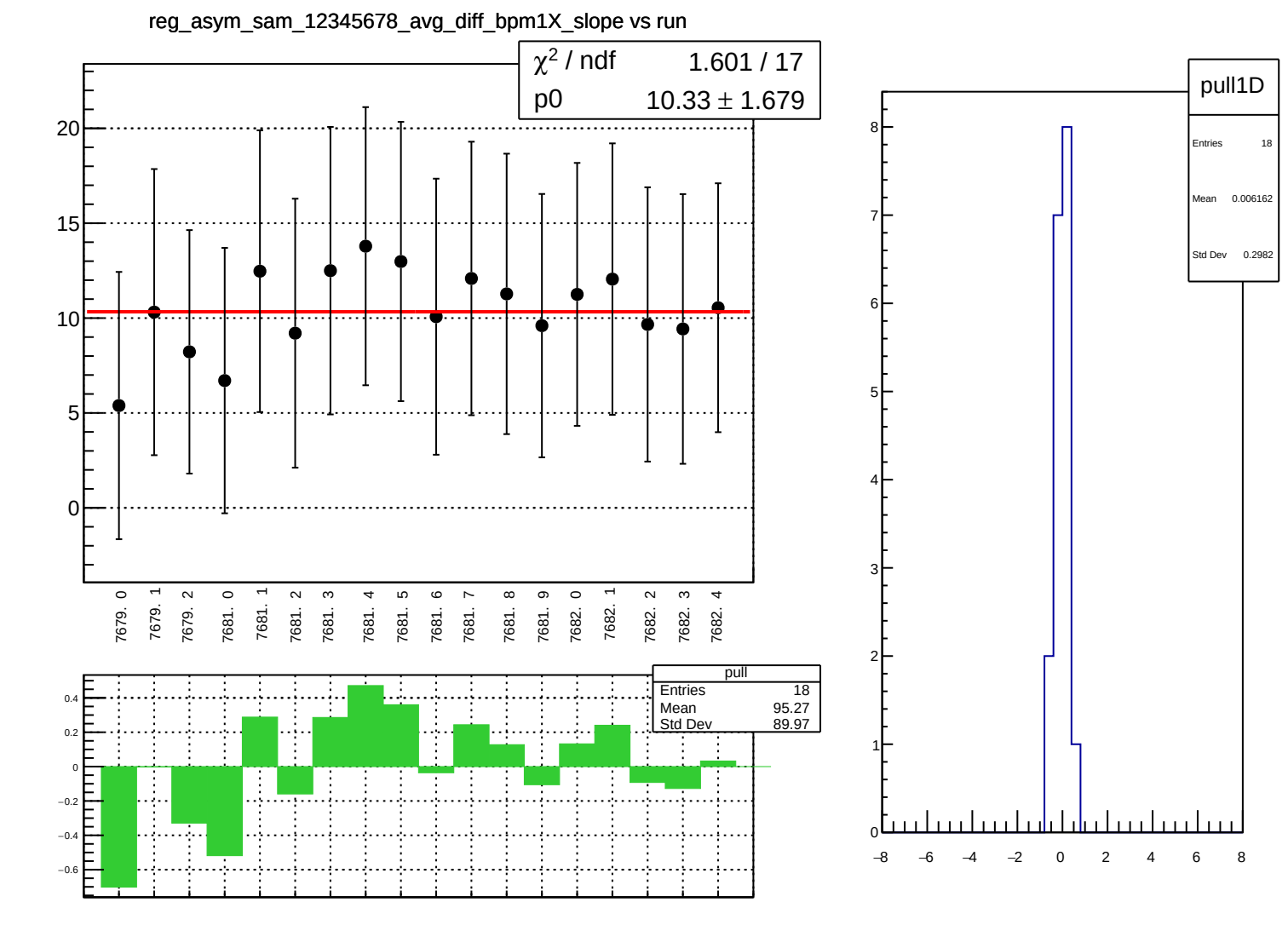

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.5622 / 17
p0 25.02 ± 0.5051
28
27
26
25
24
23
22
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −650.3
Std Dev 658.2
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 18
Mean −0.0008839
Std Dev 0.1767
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

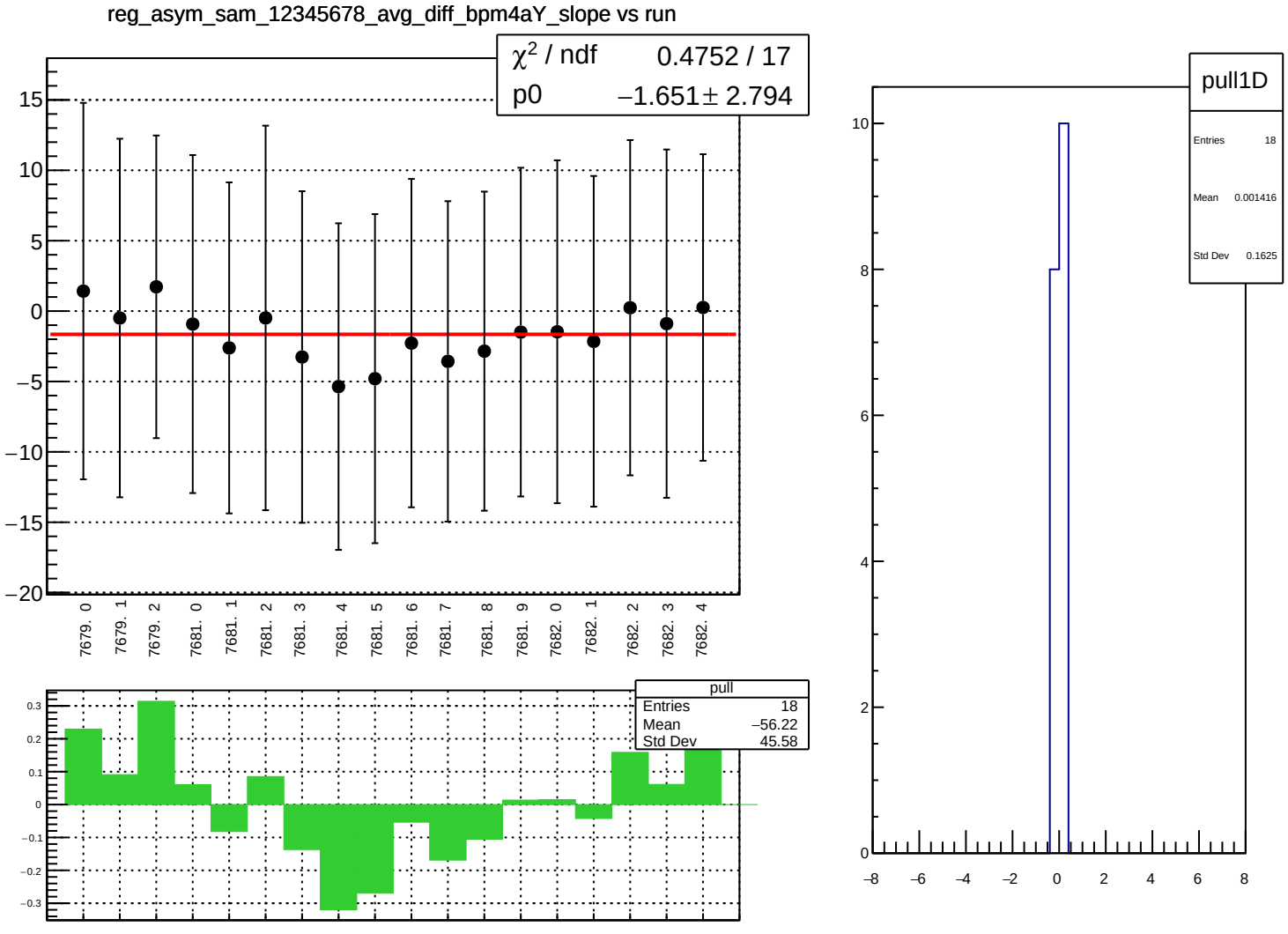

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.1995 / 17
p0 −7.057 ± 1.539
2
0
−2
−4
−6
−8
−10
−12
−14
−16
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 264
Std Dev 260.9
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2

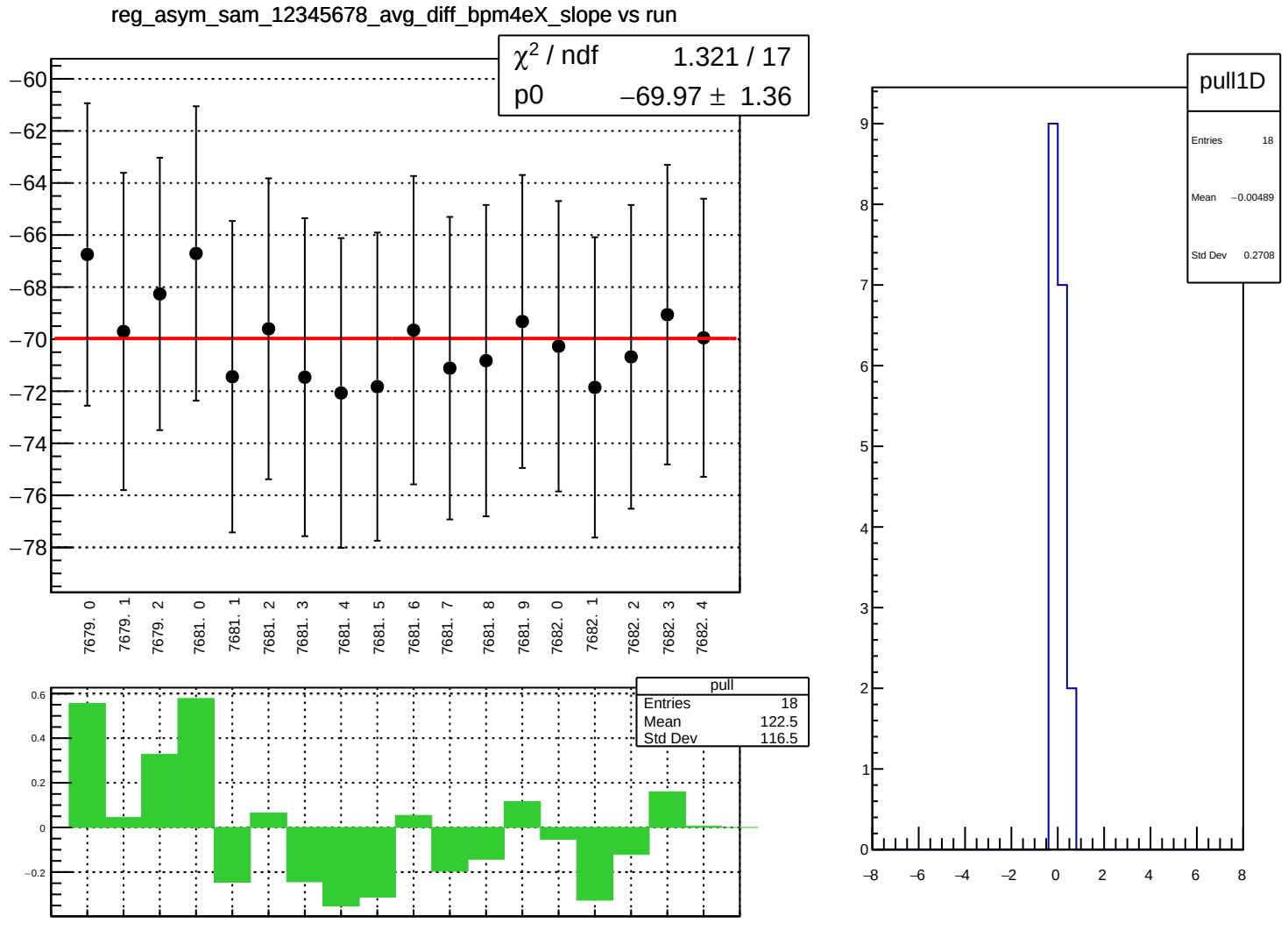

pull1D
Entries 18
Mean −0.0005038
Std Dev 0.1053
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

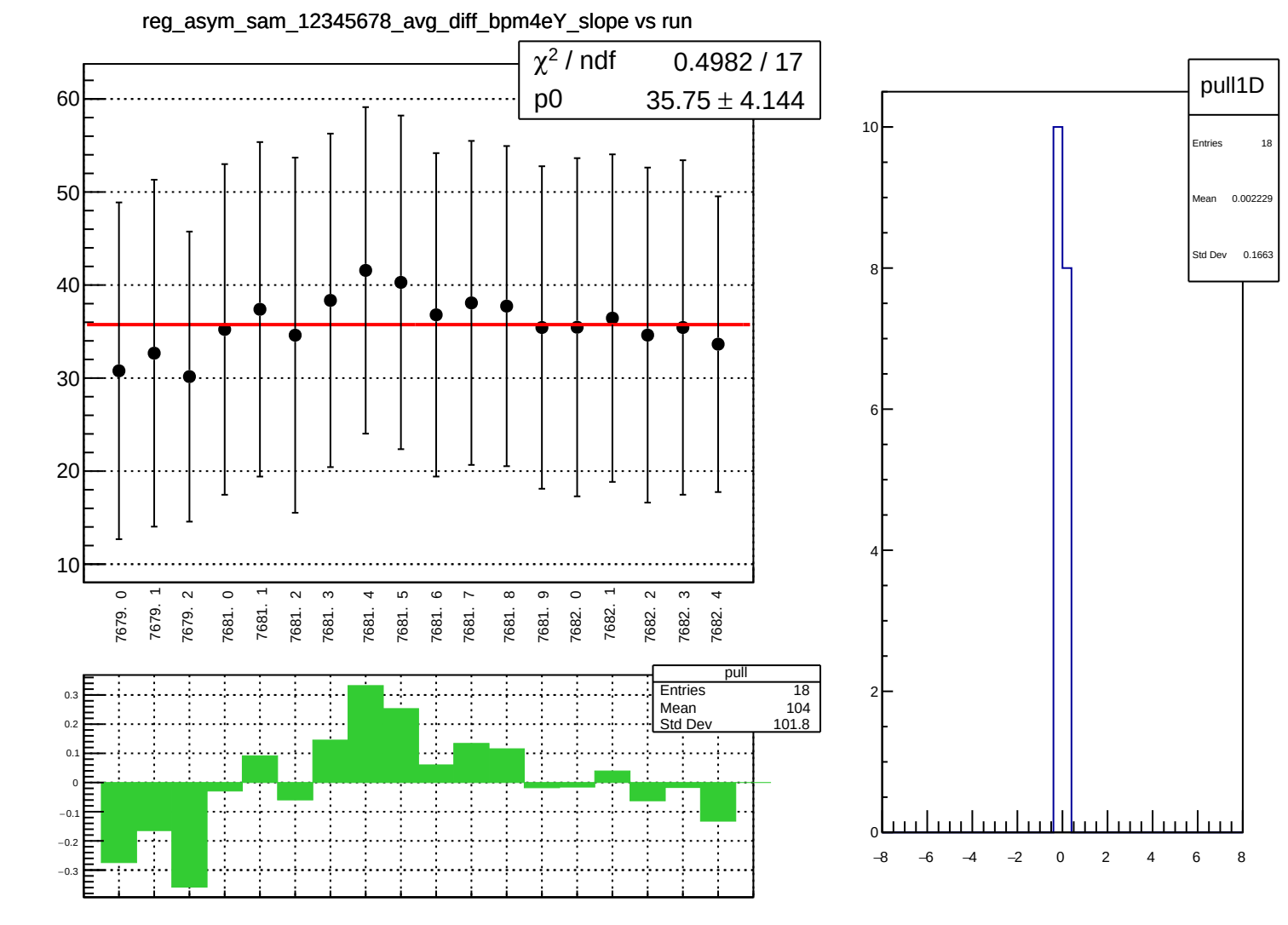

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 0.3834 / 17
p0 0.1442 ± 0.07773
0.6
0.4
0.2
0
−0.2
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −24.1
Std Dev 33.6
0.3
0.2
0.1
0
−0.1
−0.2

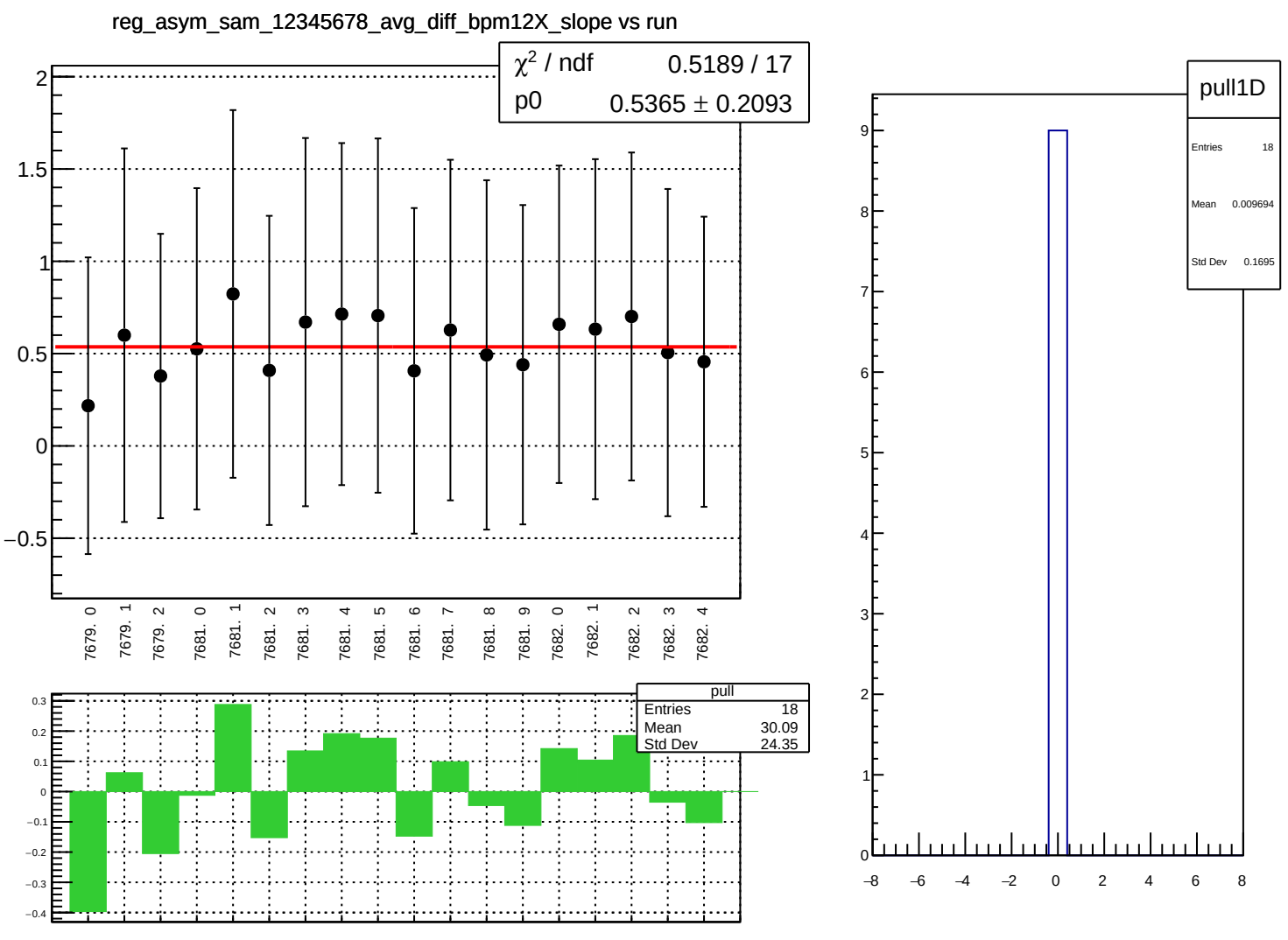

pull1D
Entries 18
Mean 0.008465
Std Dev 0.1457
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

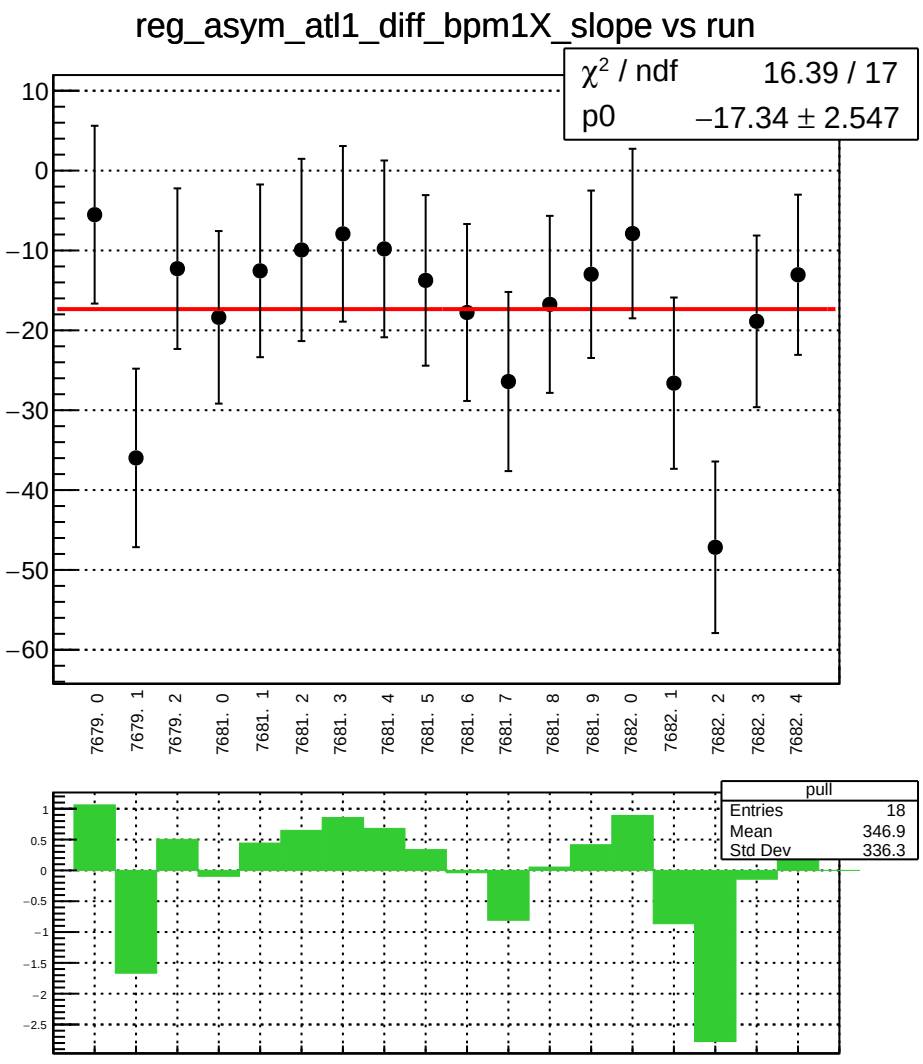

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 1.601 / 17
p0 10.33 ± 1.679
20
15
10
5
0
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 95.27
Std Dev 89.97
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 18
Mean 0.006162
Std Dev 0.2982
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

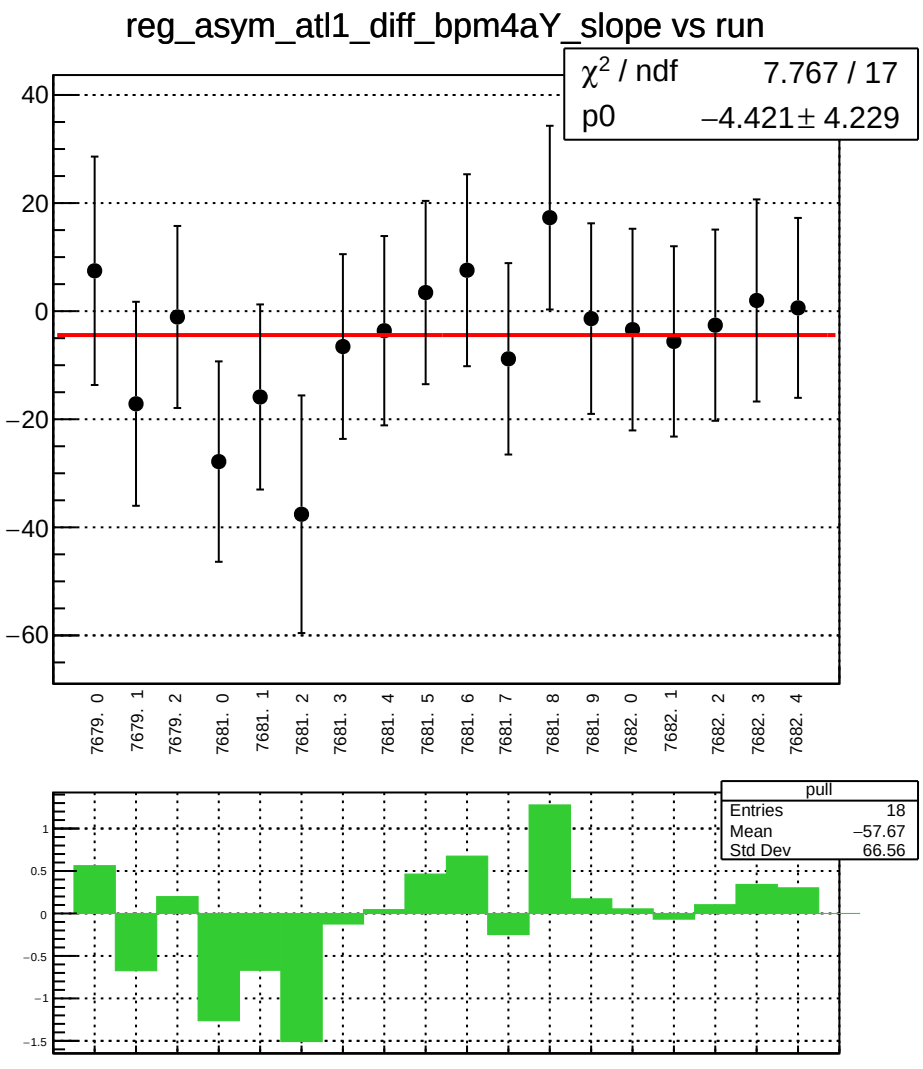

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.4752 / 17
p0 −1.651± 2.794
15
10
5
0
−5
−10
−15
−20
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −56.22
Std Dev 45.58
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 18
Mean 0.001416
Std Dev 0.1625
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

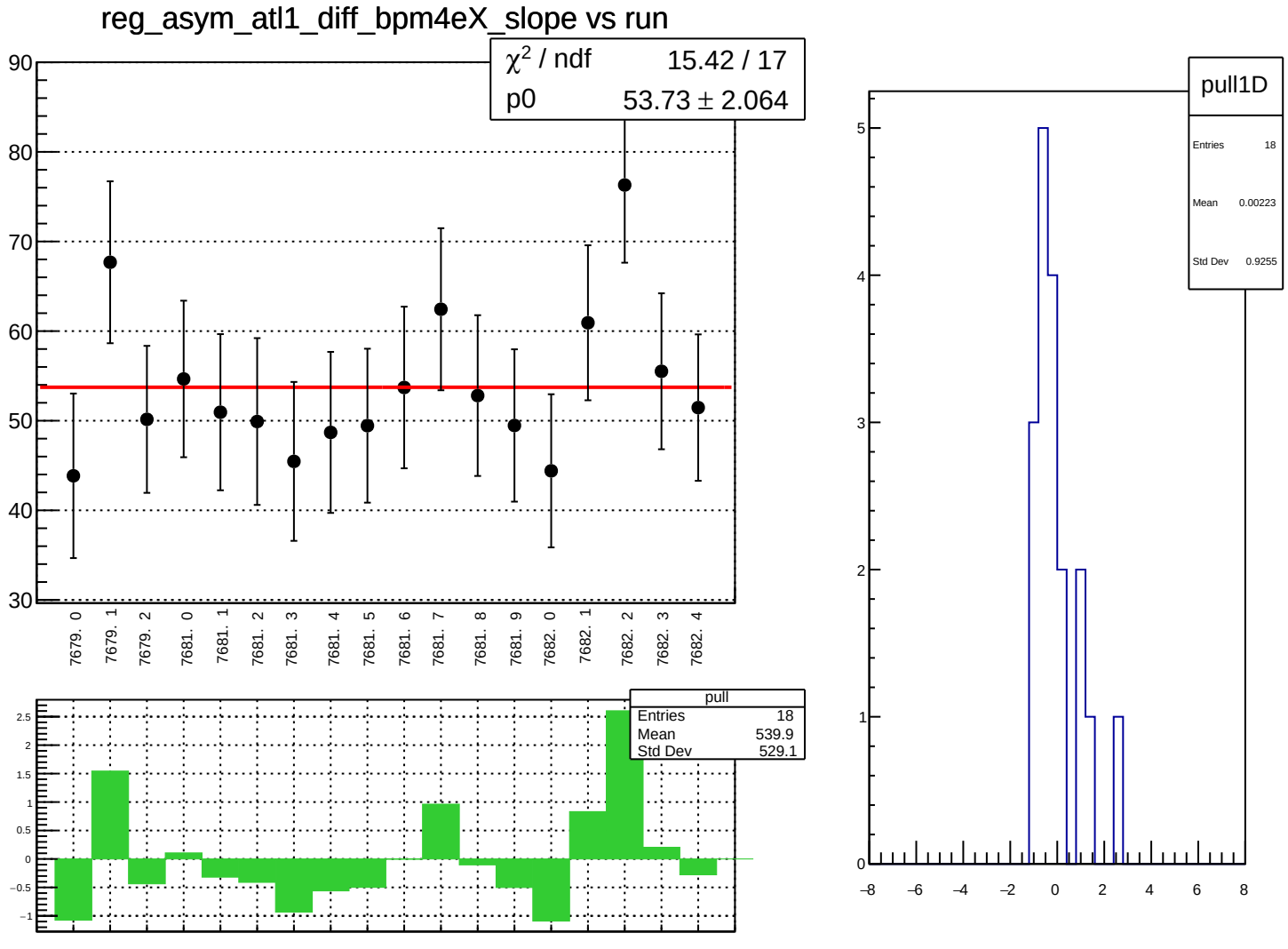

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.321 / 17
p0 −69.97 ± 1.36
−60
−62
−64
−66
−68
−70
−72
−74
−76
−78
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 122.5
Std Dev 116.5
0.6
0.4
0.2
0
−0.2
pull1D
Entries 18
Mean −0.00489
Std Dev 0.2708
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

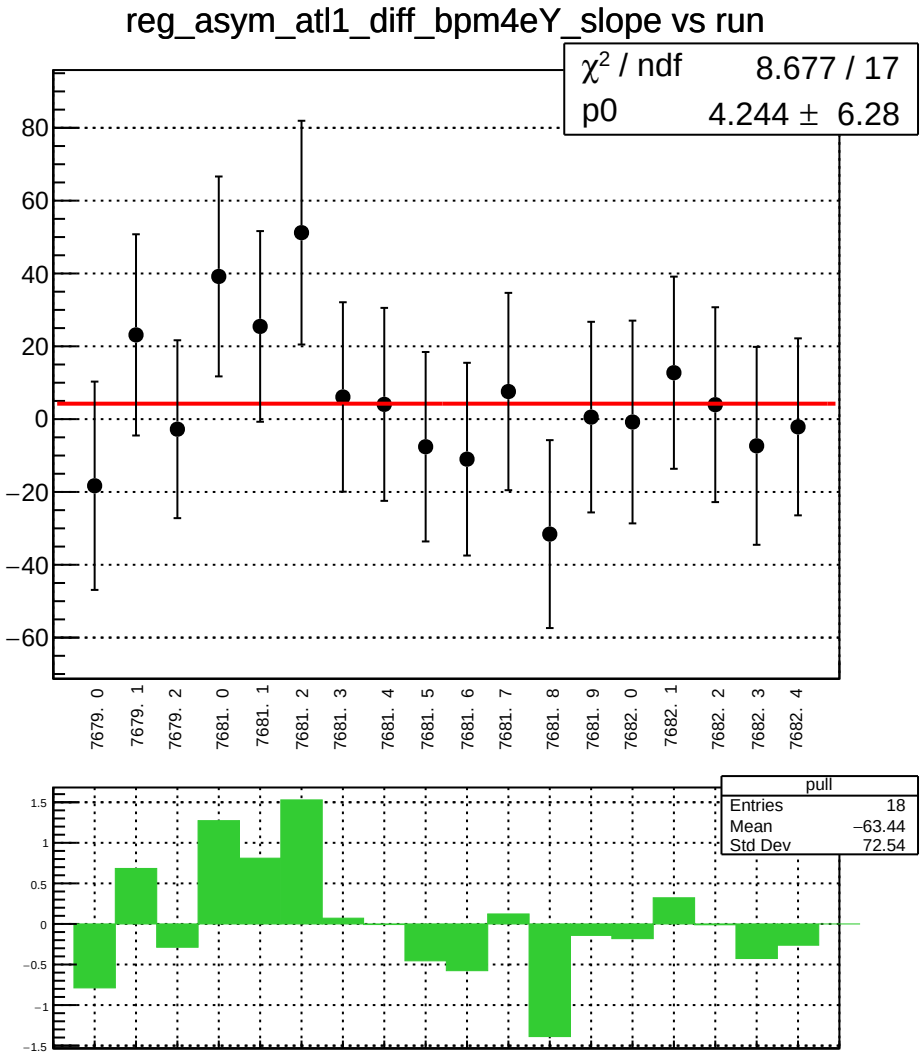

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.4982 / 17
p0 35.75 ± 4.144
60
50
40
30
20
10
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 104
Std Dev 101.8
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 18
Mean 0.002229
Std Dev 0.1663
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

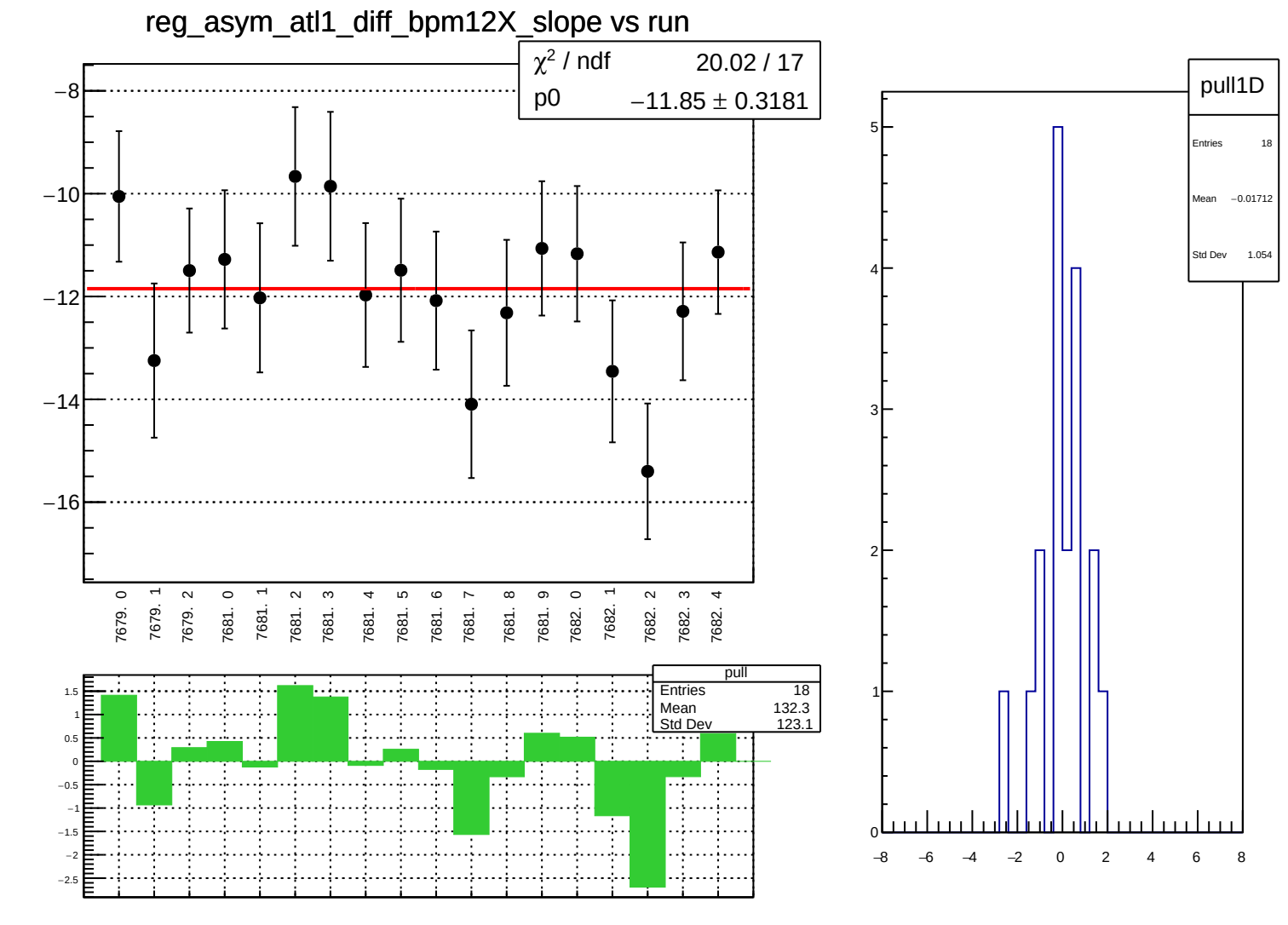

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 0.5189 / 17
p0 0.5365 ± 0.2093
2
1.5
1
0.5
0
−0.5
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 30.09
Std Dev 24.35
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 18
Mean 0.009694
Std Dev 0.1695
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

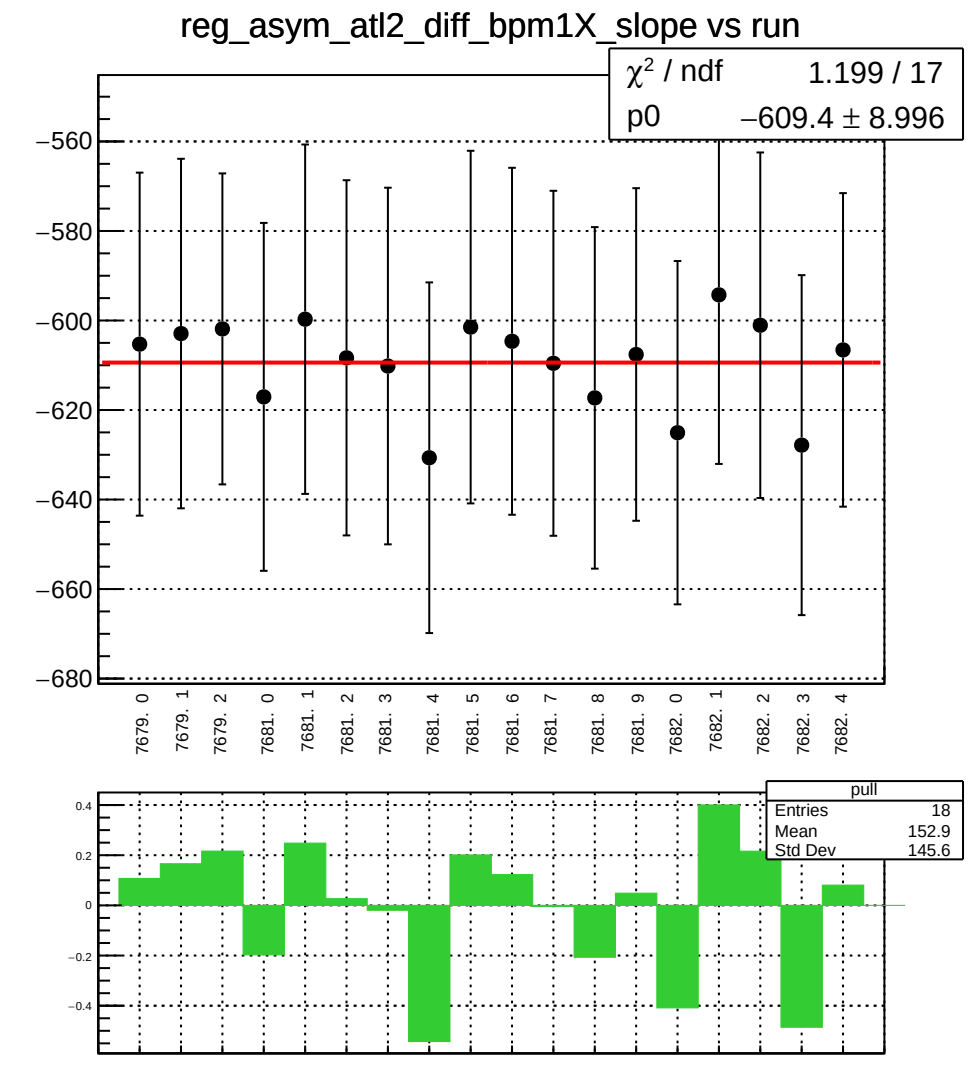

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 16.39 / 17
p0 −17.34 ± 2.547
10
0
−10
−20
−30
−40
−50
−60
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 346.9
Std Dev 336.3
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 18
Mean −0.003737
Std Dev 0.9541
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

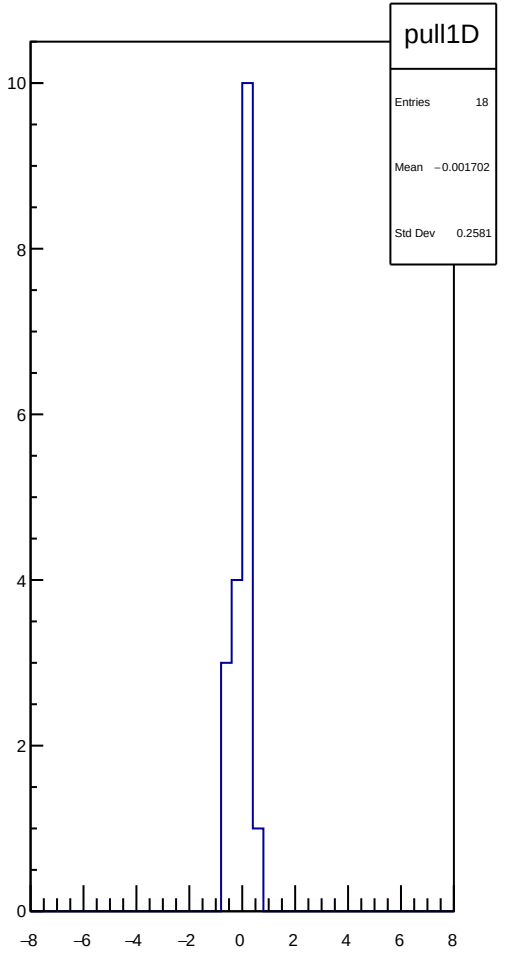

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 7.767 / 17
p0 −4.421 ± 4.229
40
20
0
−20
−40
−60
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −57.67
Std Dev 66.56
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 18
Mean −0.01972
Std Dev 0.6566
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

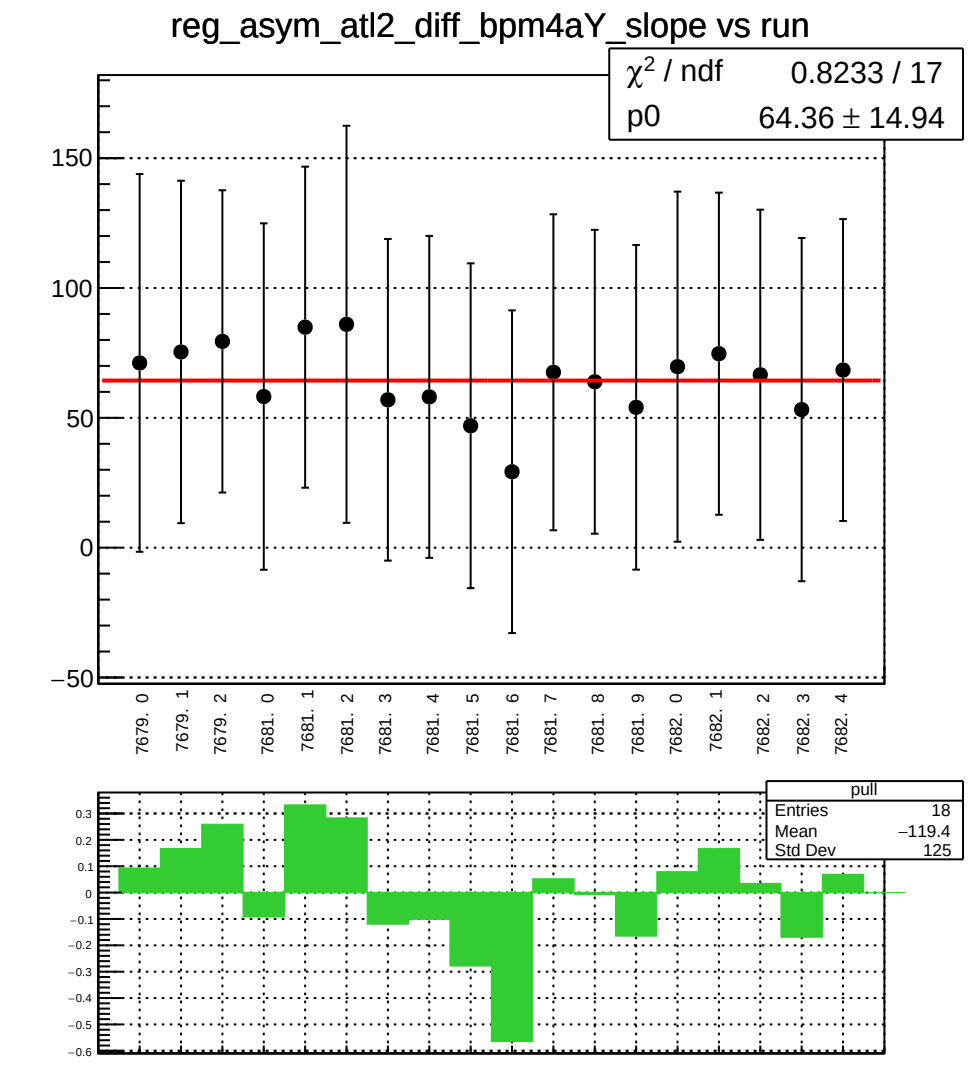

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 15.42 / 17
p0 53.73 ± 2.064
90
80
70
60
50
40
30
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 539.9
Std Dev 529.1
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 18
Mean 0.00223
Std Dev 0.9255
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

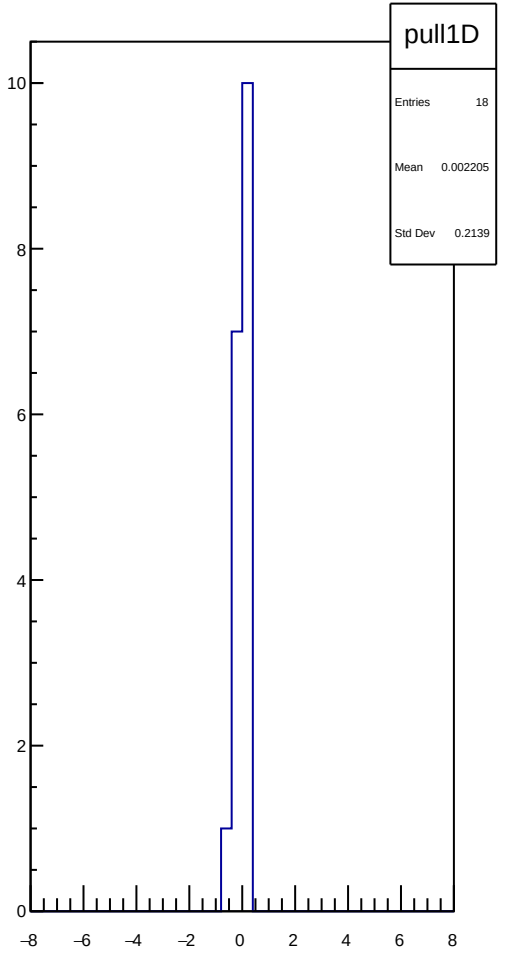

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 8.677 / 17
p0 4.244 ± 6.28
80
60
40
20
0
−20
−40
−60
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −63.44
Std Dev 72.54
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 18
Mean 0.01618
Std Dev 0.6941
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

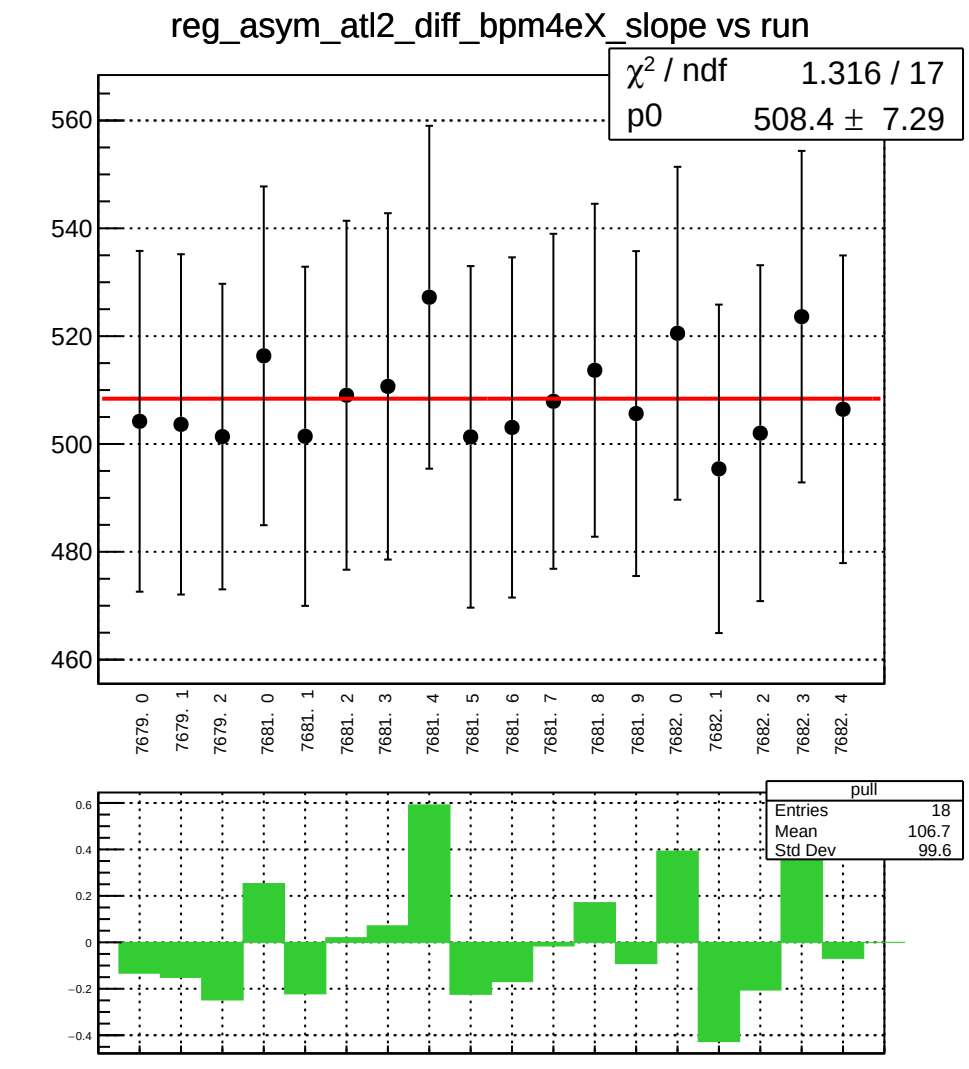

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 20.02 / 17
p0 −11.85 ± 0.3181
−8
−10
−12
−14
−16
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 132.3
Std Dev 123.1
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 18
Mean −0.01712
Std Dev 1.054
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

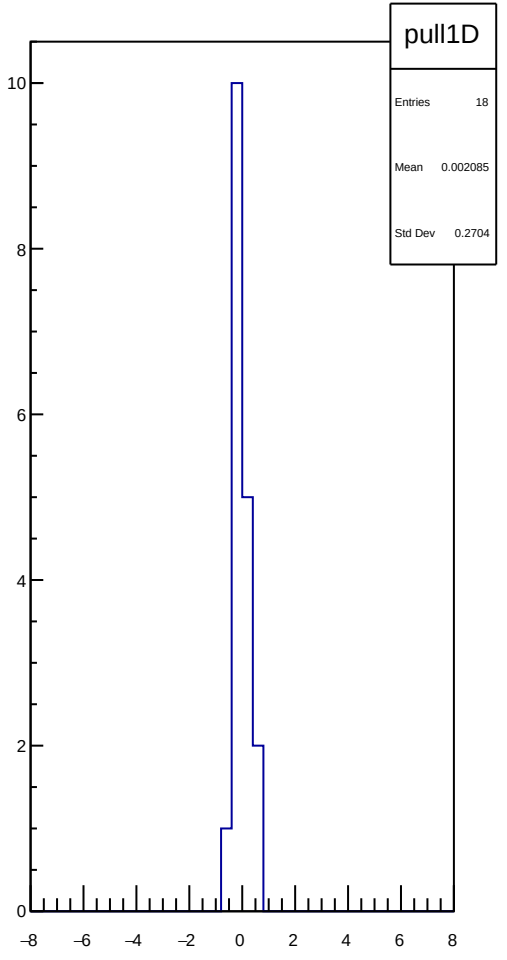

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 1.199 / 17
p0 −609.4 ± 8.996
−560
−580
−600
−620
−640
−660
−680
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 152.9
Std Dev 145.6
0.4
0.2
0
−0.2
−0.4

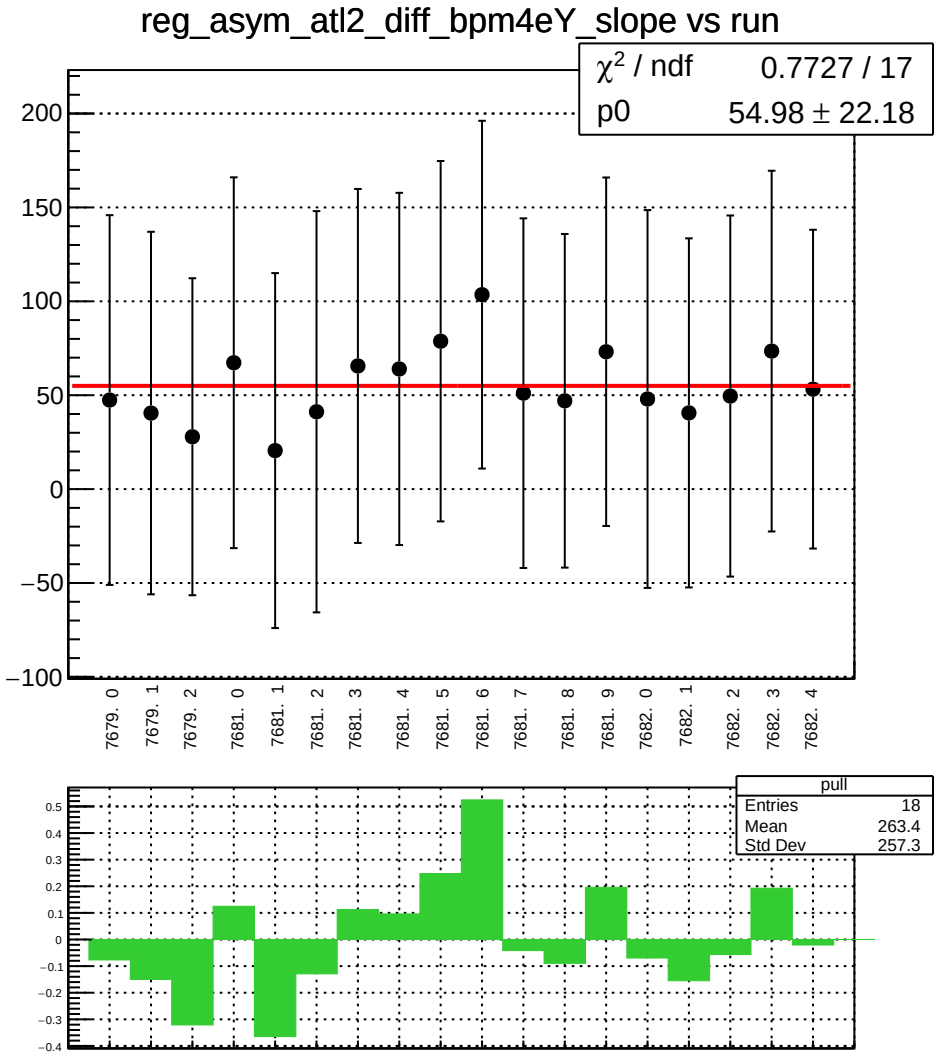

pull1D
Entries 18
Mean −0.001702
Std Dev 0.2581
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

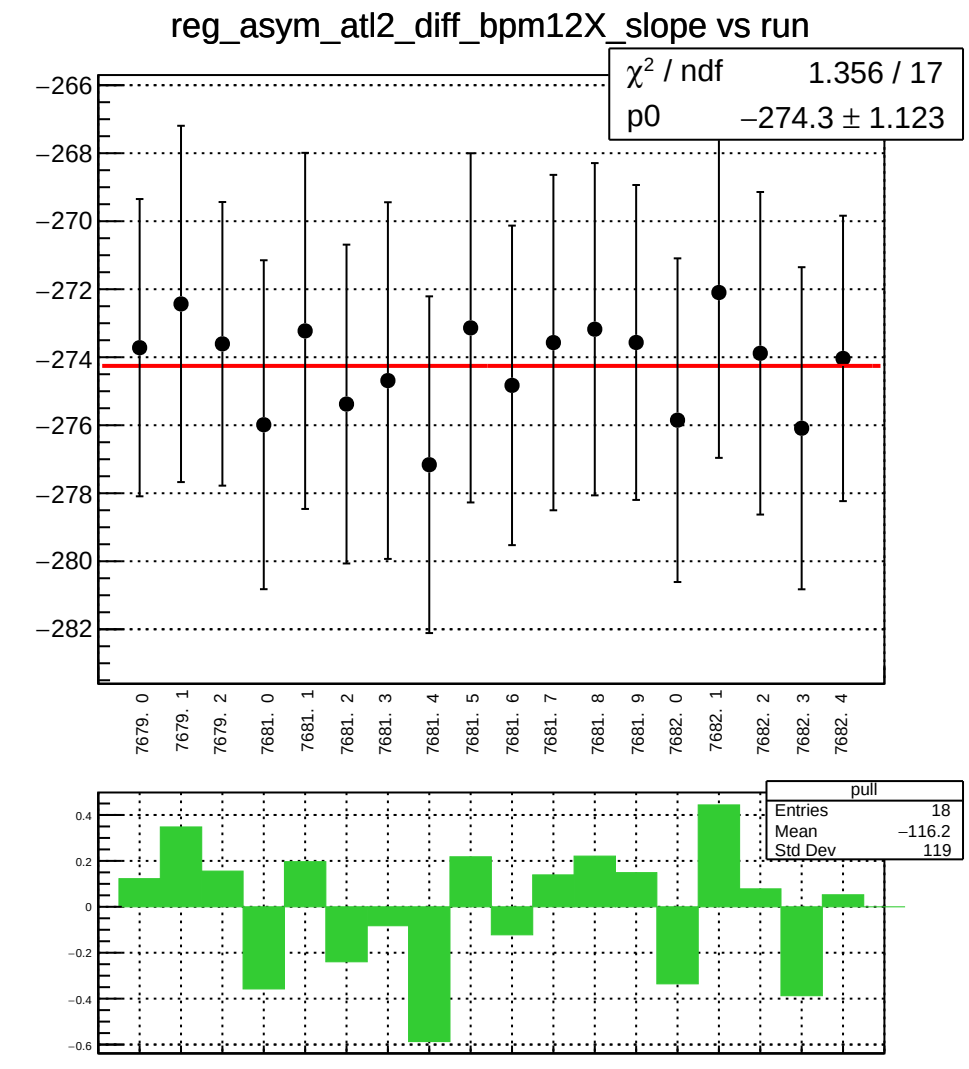

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 0.8233 / 17
p0 64.36 ± 14.94
150
100
50
0
−50
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −119.4
Std Dev 125
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6

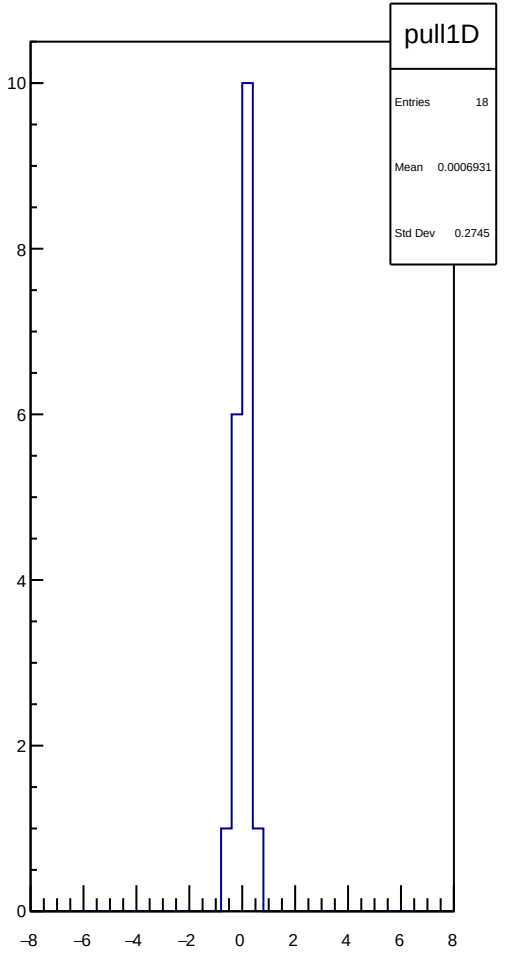

pull1D
Entries 18
Mean 0.002205
Std Dev 0.2139
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

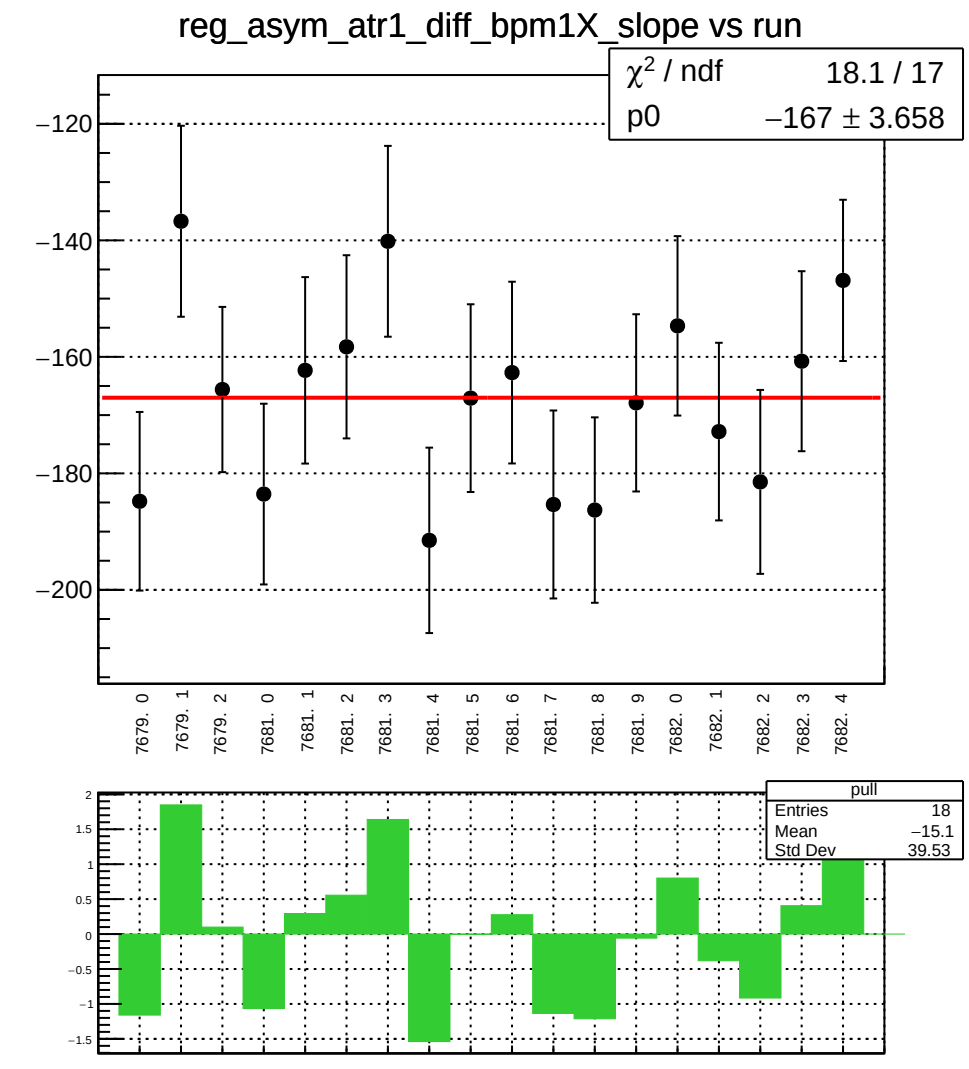

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 1.316 / 17
p0 508.4 ± 7.29
560
540
520
500
480
460
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 106.7
Std Dev 99.6
0.6
0.4
0.2
0
−0.2
−0.4

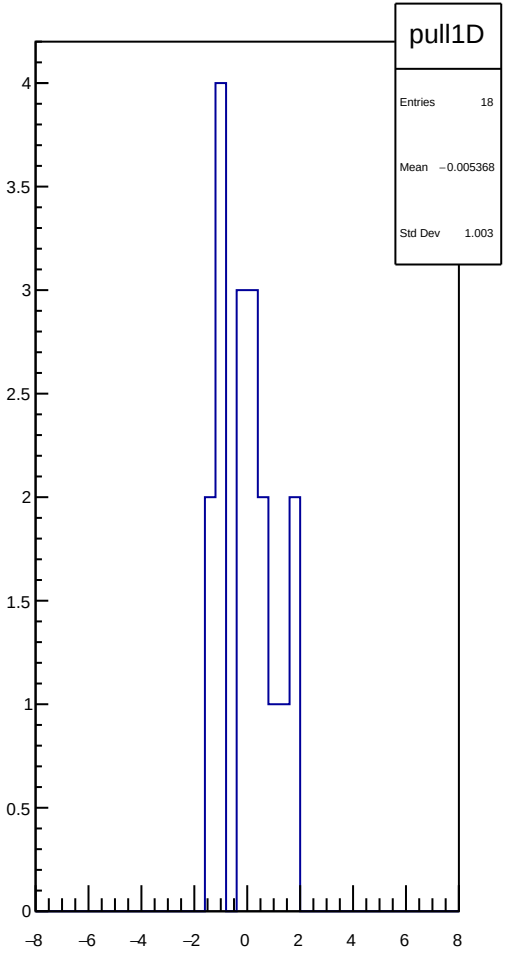

pull1D
Entries 18
Mean 0.002085
Std Dev 0.2704
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

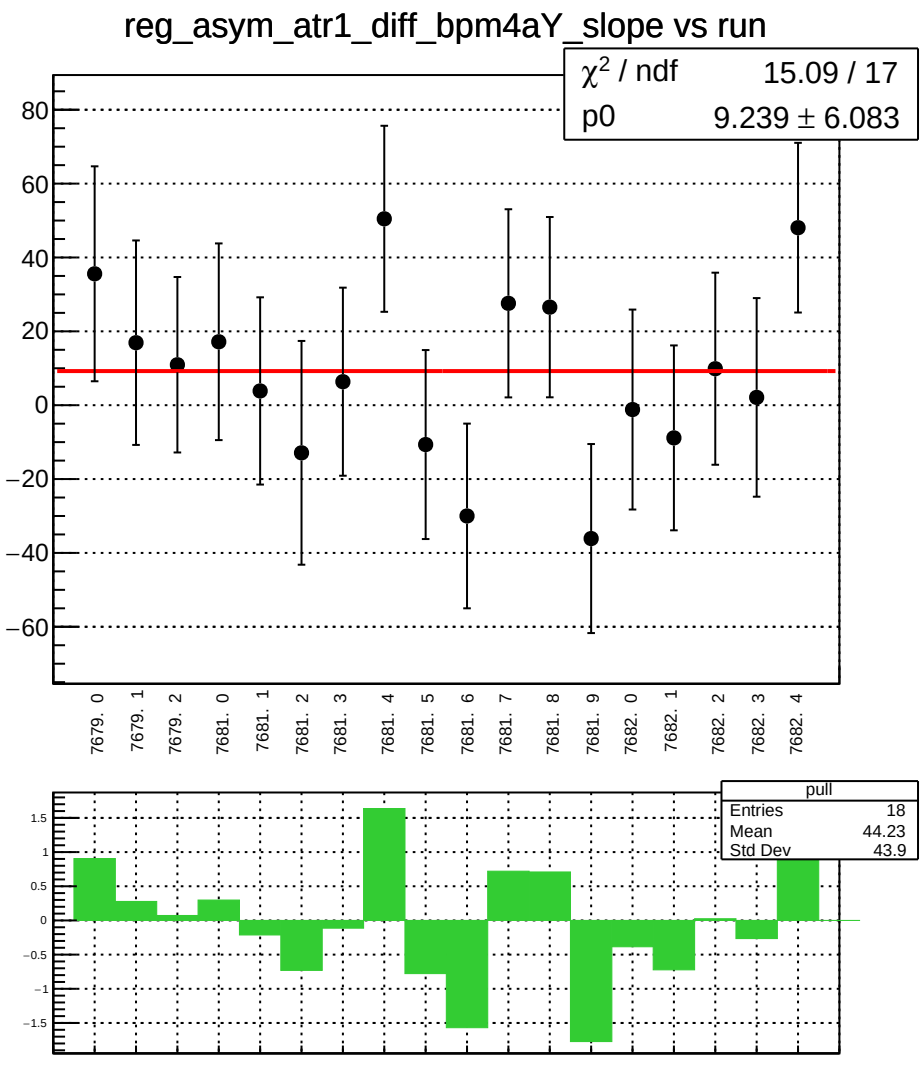

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 0.7727 / 17
p0 54.98 ± 22.18
200
150
100
50
0
−50
−100
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 263.4
Std Dev 257.3
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 18
Mean 0.001118
Std Dev 0.2072
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

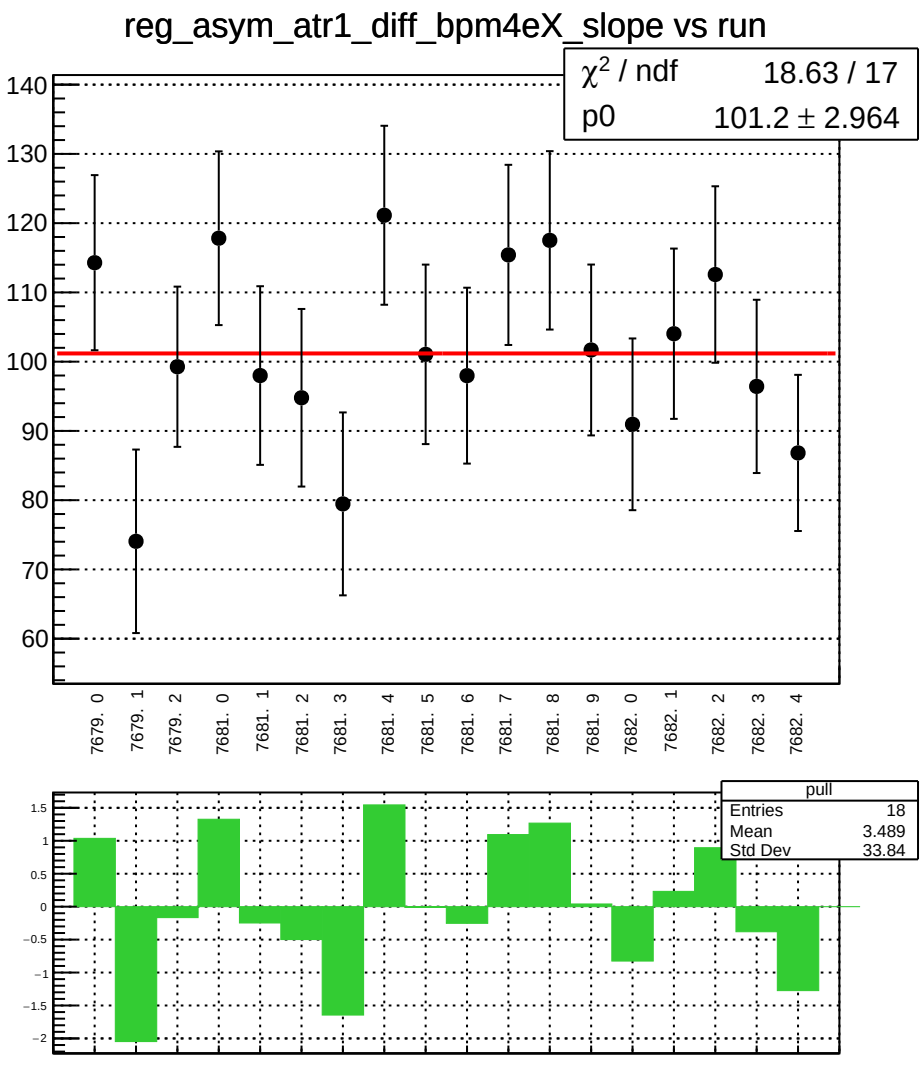

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 1.356 / 17
p0 −274.3 ± 1.123
−266
−268
−270
−272
−274
−276
−278
−280
−282
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −116.2
Std Dev 119
0.4
0.2
0
−0.2
−0.4
−0.6

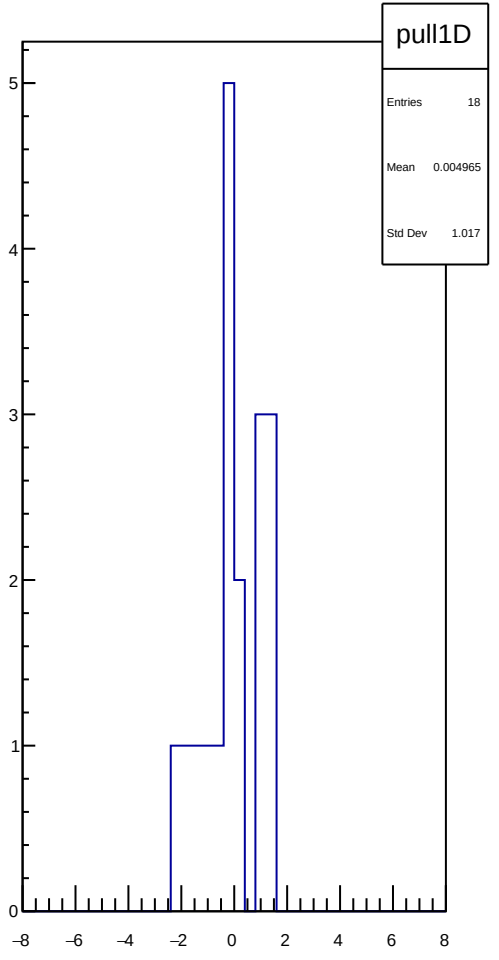

pull1D
Entries 18
Mean 0.0006931
Std Dev 0.2745
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

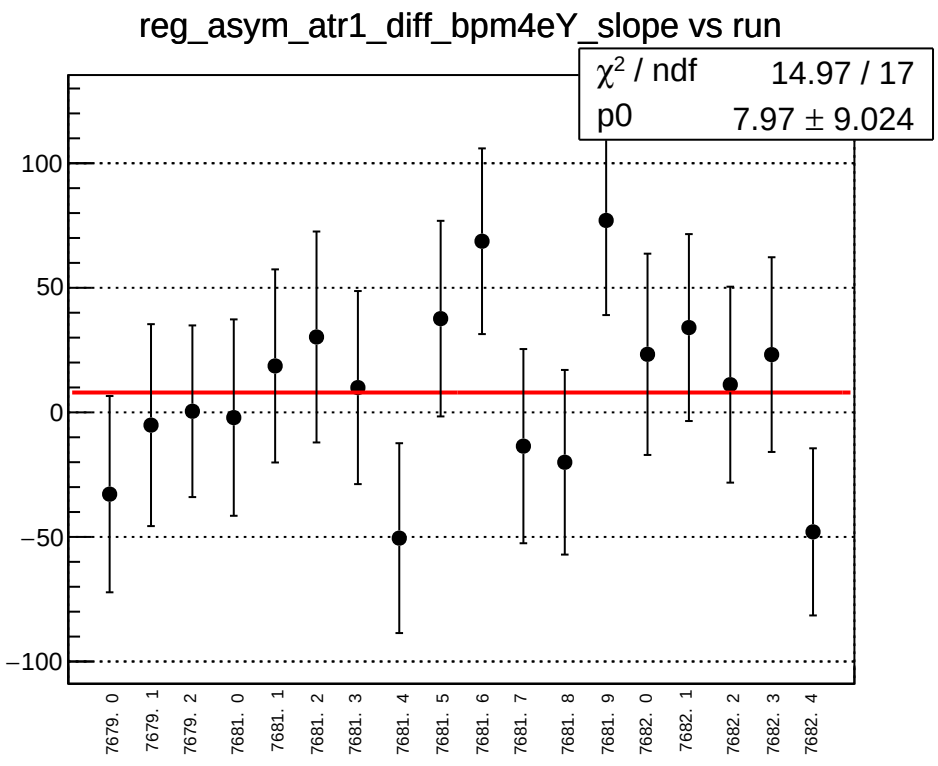

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 18.1 / 17
p0 −167 ± 3.658
−120
−140
−160
−180
−200
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −15.1
Std Dev 39.53
2
1.5
1
0.5
0
−0.5
−1
−1.5

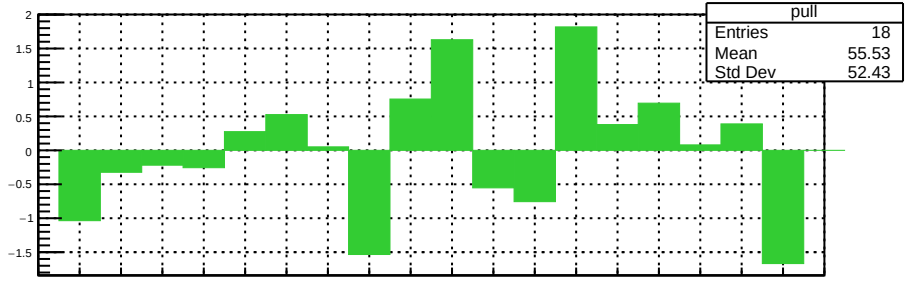

pull1D
Entries 18
Mean −0.005368
Std Dev 1.003
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

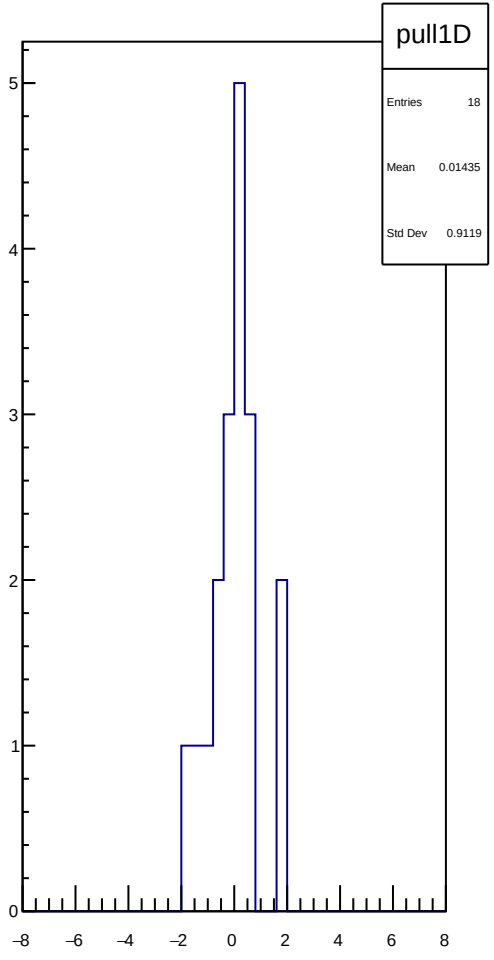

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 15.09 / 17
p0 9.239 ± 6.083
80
60
40
20
0
−20
−40
−60
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 44.23
Std Dev 43.9
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 18
Mean −0.01176
Std Dev 0.9154
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

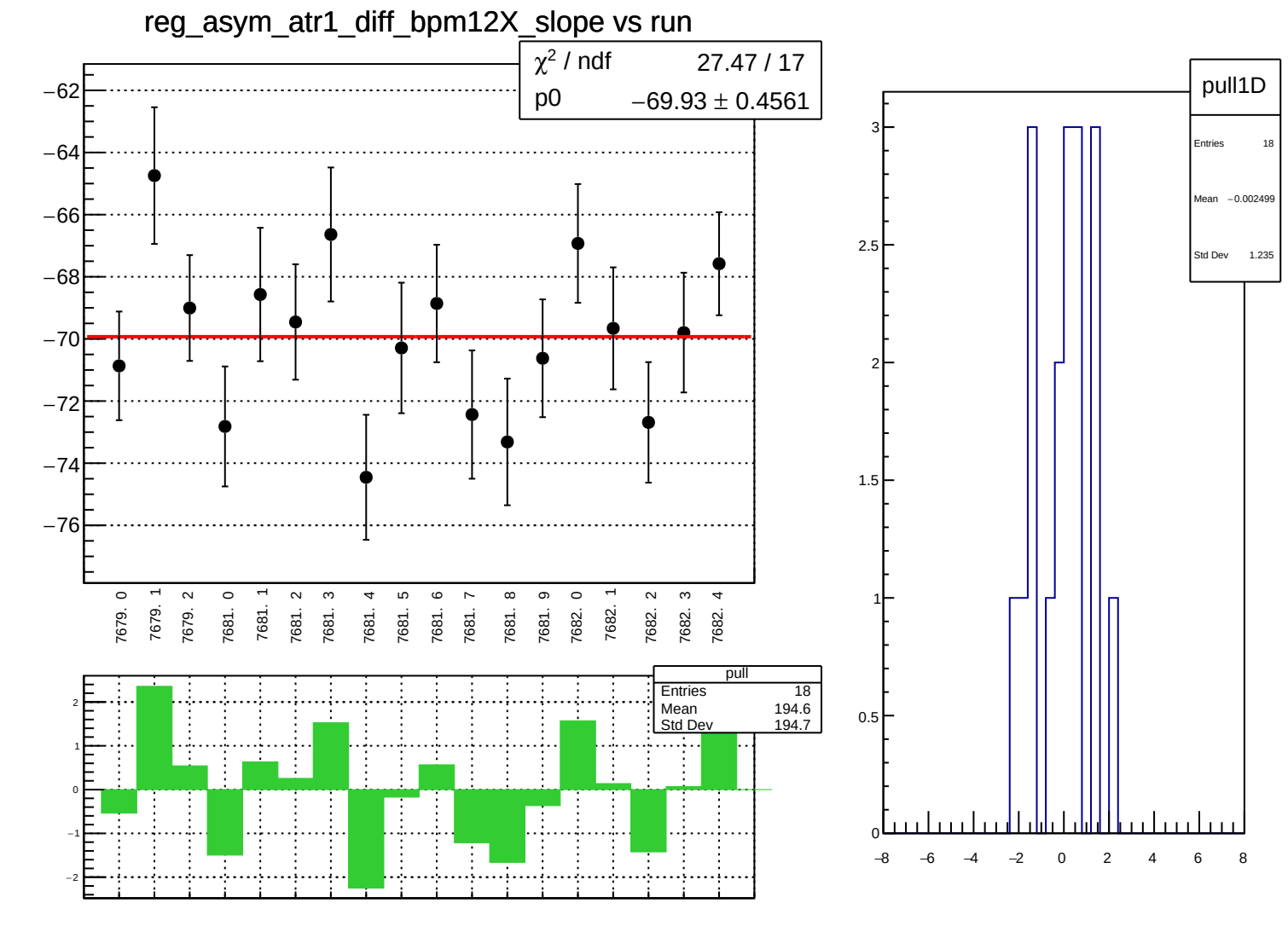

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 18.63 / 17
p0 101.2 ± 2.964
140
130
120
110
100
90
80
70
60
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 3.489
Std Dev 33.84
1.5
1
0.5
0
−0.5
−1
−1.5
−2

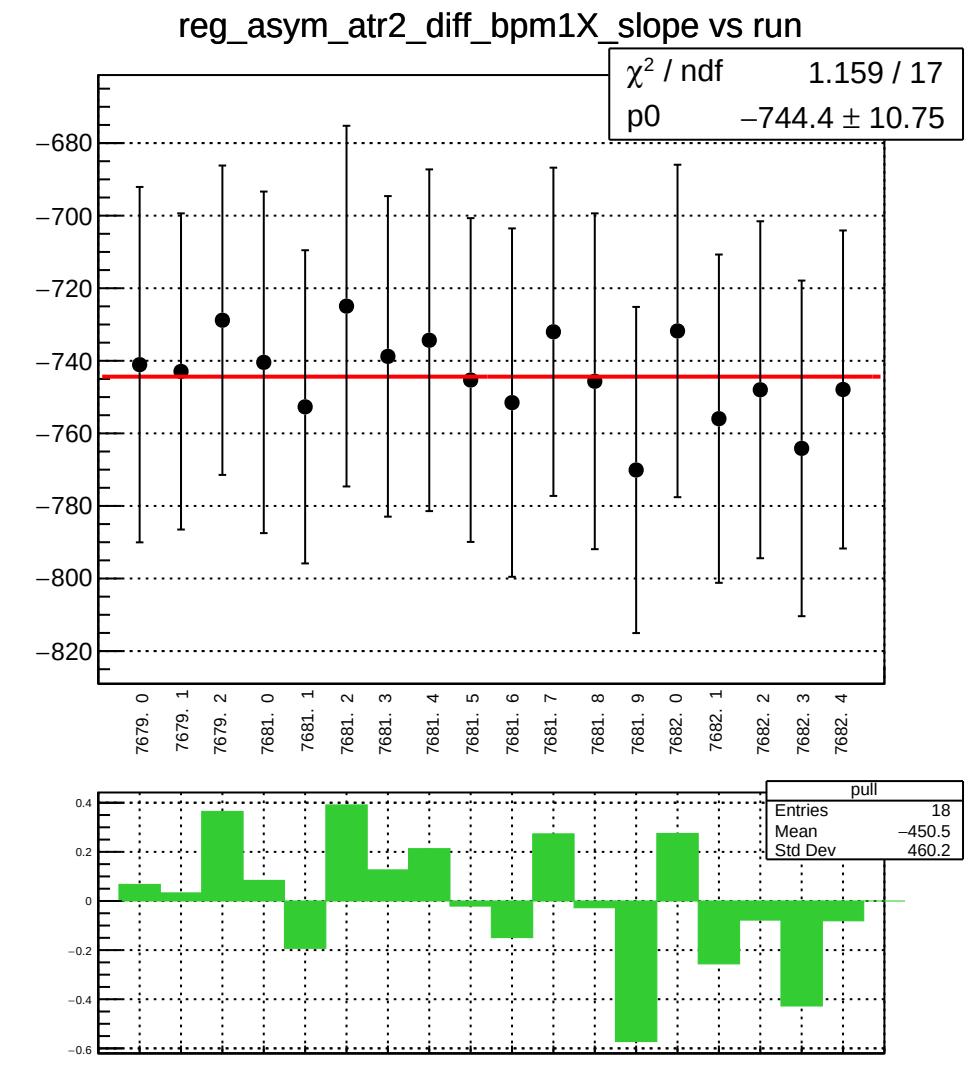

pull1D
Entries 18
Mean 0.004965
Std Dev 1.017
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

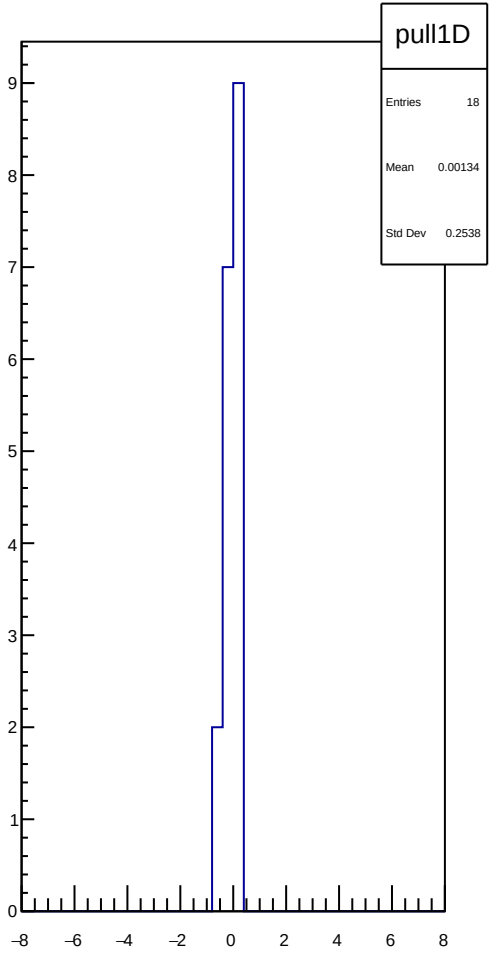

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 14.97 / 17
p0 7.97 ± 9.024
100
50
0
−50
−100
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

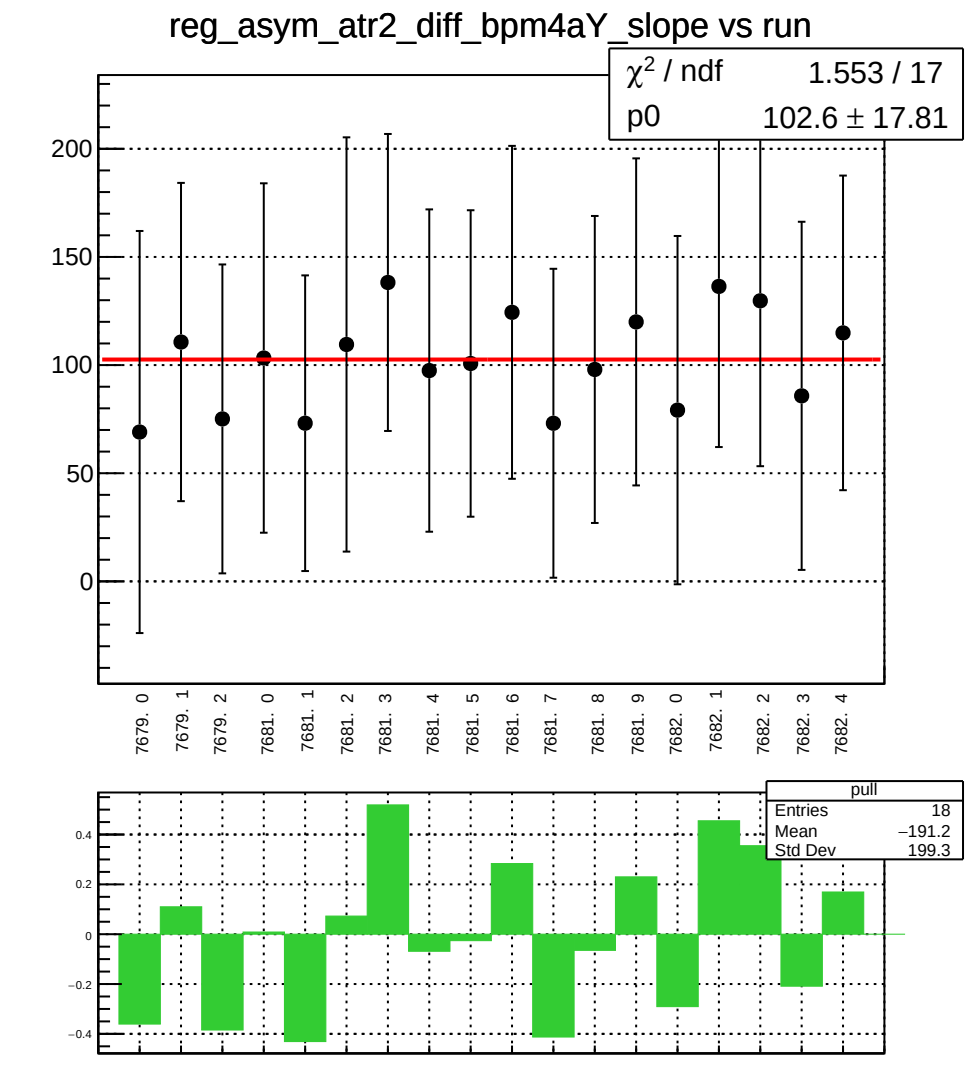

pull
Entries 18
Mean 55.53
Std Dev 52.43
2
1.5
1
0.5
0
−0.5
−1
−1.5

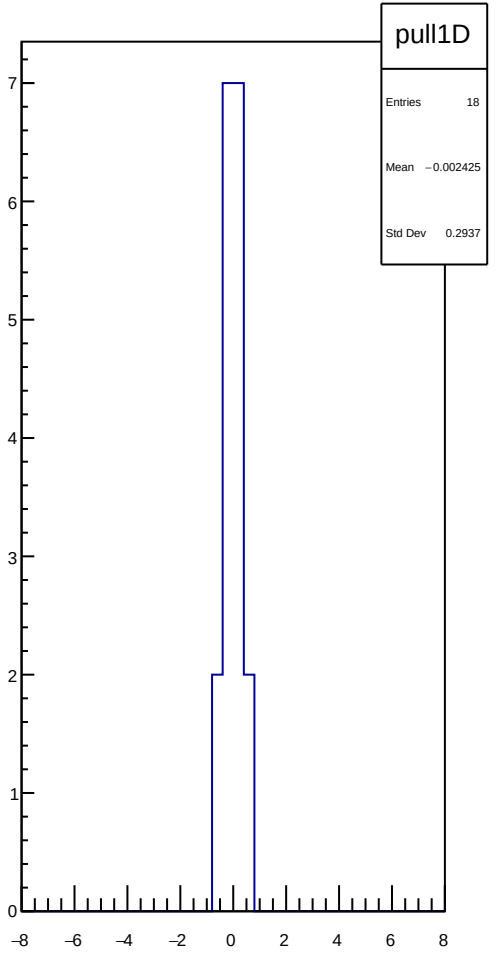

pull1D
Entries 18
Mean 0.01435
Std Dev 0.9119
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

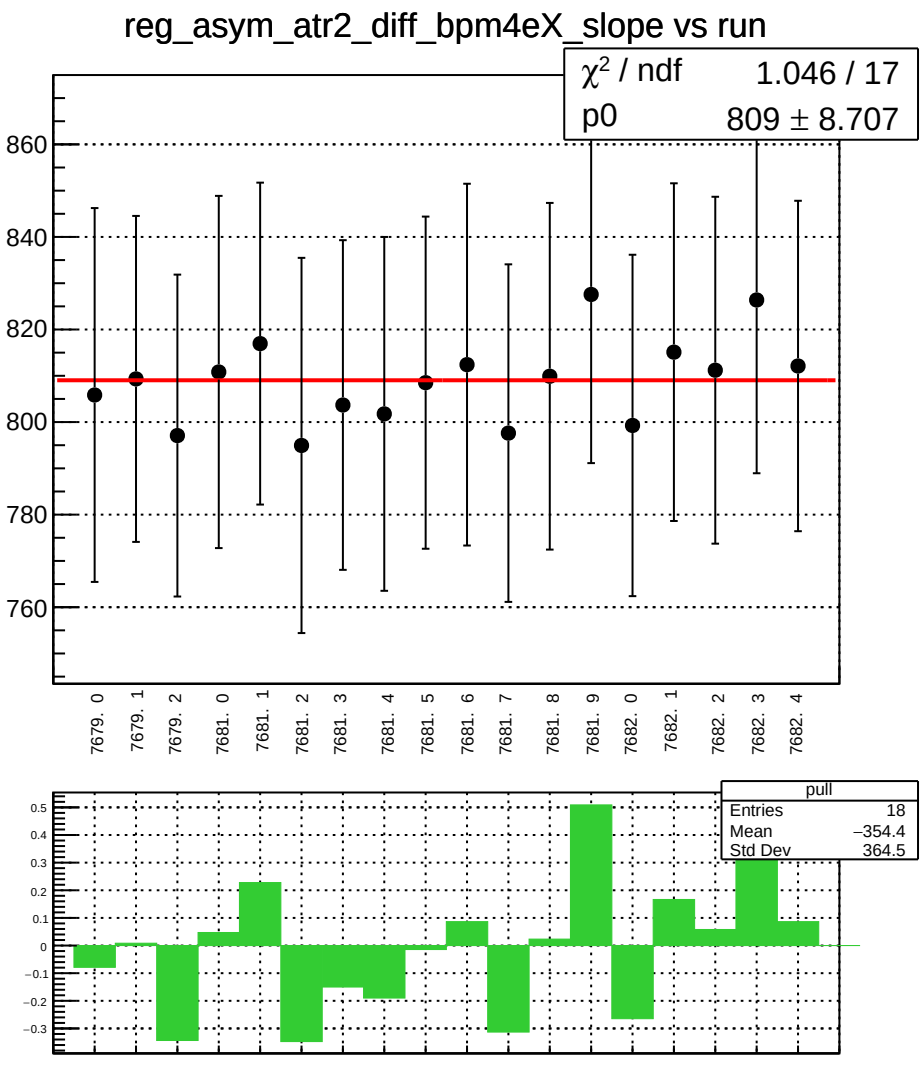

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 27.47 / 17
p0 −69.93 ± 0.4561
−62
−64
−66
−68
−70
−72
−74
−76
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 194.6
Std Dev 194.7
2
1
0
−1
−2
pull1D
Entries 18
Mean −0.002499
Std Dev 1.235
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

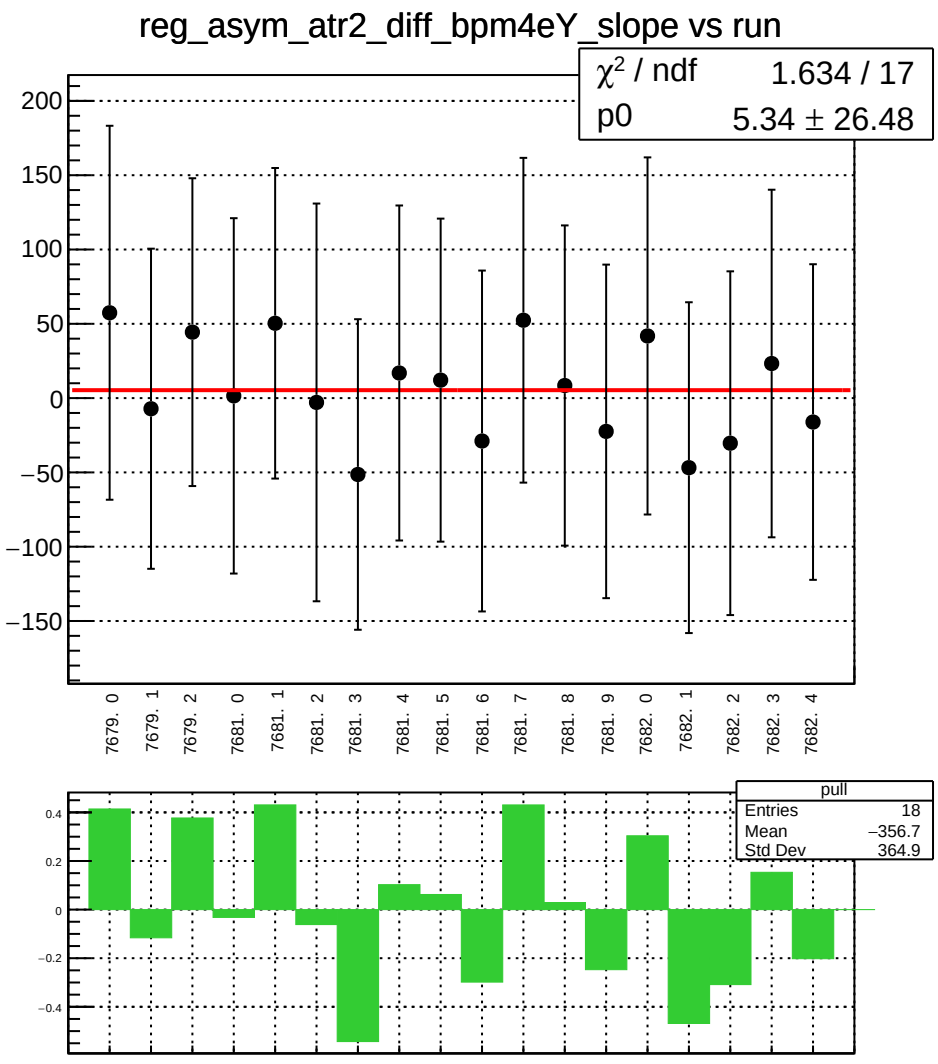

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 1.159 / 17
p0 −744.4 ± 10.75
−680
−700
−720
−740
−760
−780
−800
−820
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −450.5
Std Dev 460.2
0.4
0.2
0
−0.2
−0.4
−0.6

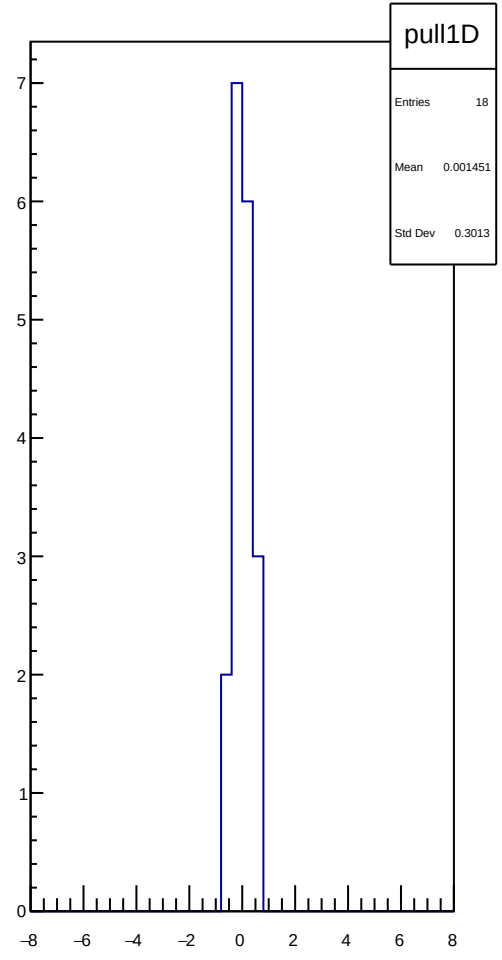

pull1D
Entries 18
Mean 0.00134
Std Dev 0.2538
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

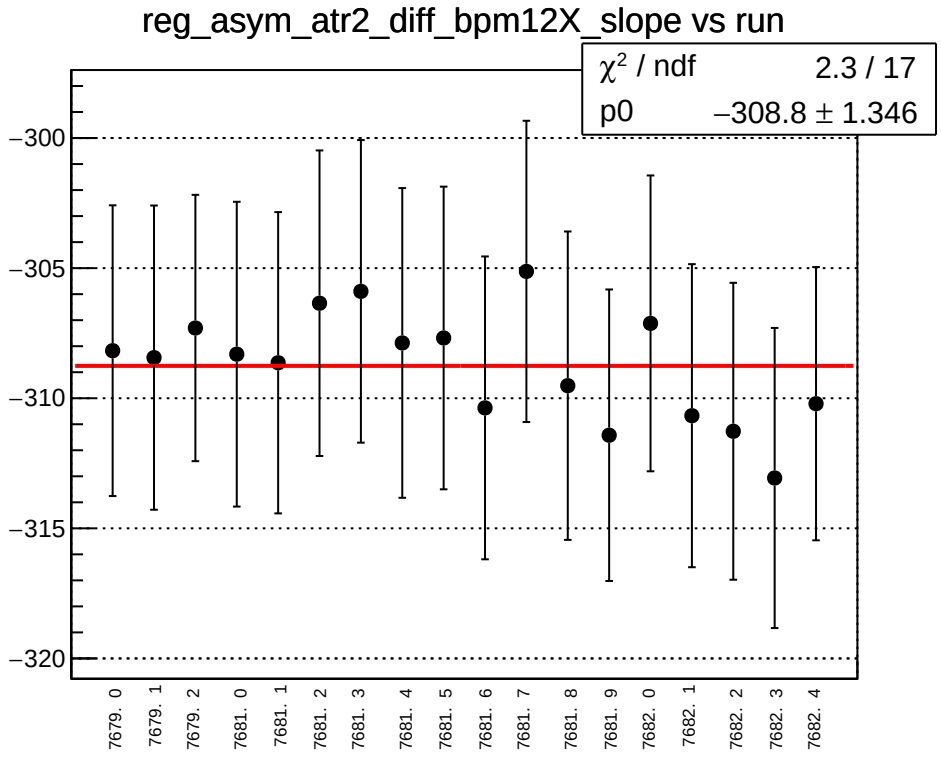

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 1.553 / 17
p0 102.6 ± 17.81
200
150
100
50
0
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −191.2
Std Dev 199.3
0.4
0.2
0
−0.2
−0.4

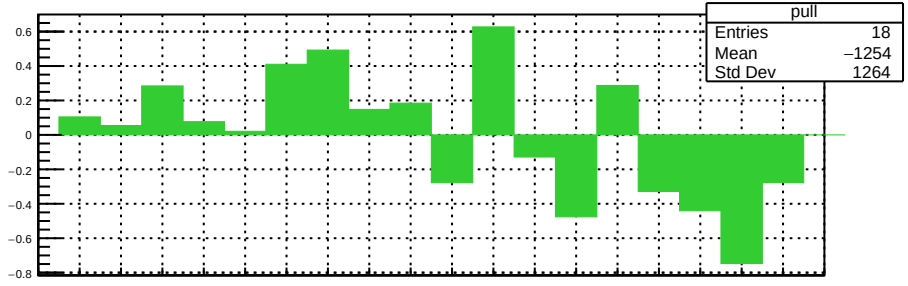

pull1D
Entries 18
Mean −0.002425
Std Dev 0.2937
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

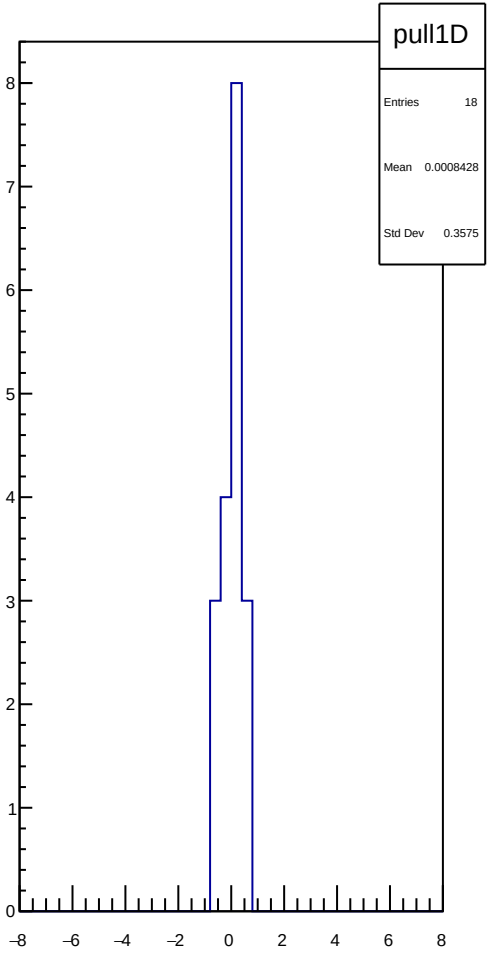

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 1.046 / 17
p0 809 ± 8.707
860
840
820
800
780
760
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −354.4
Std Dev 364.5
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 18
Mean −0.001401
Std Dev 0.2411
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

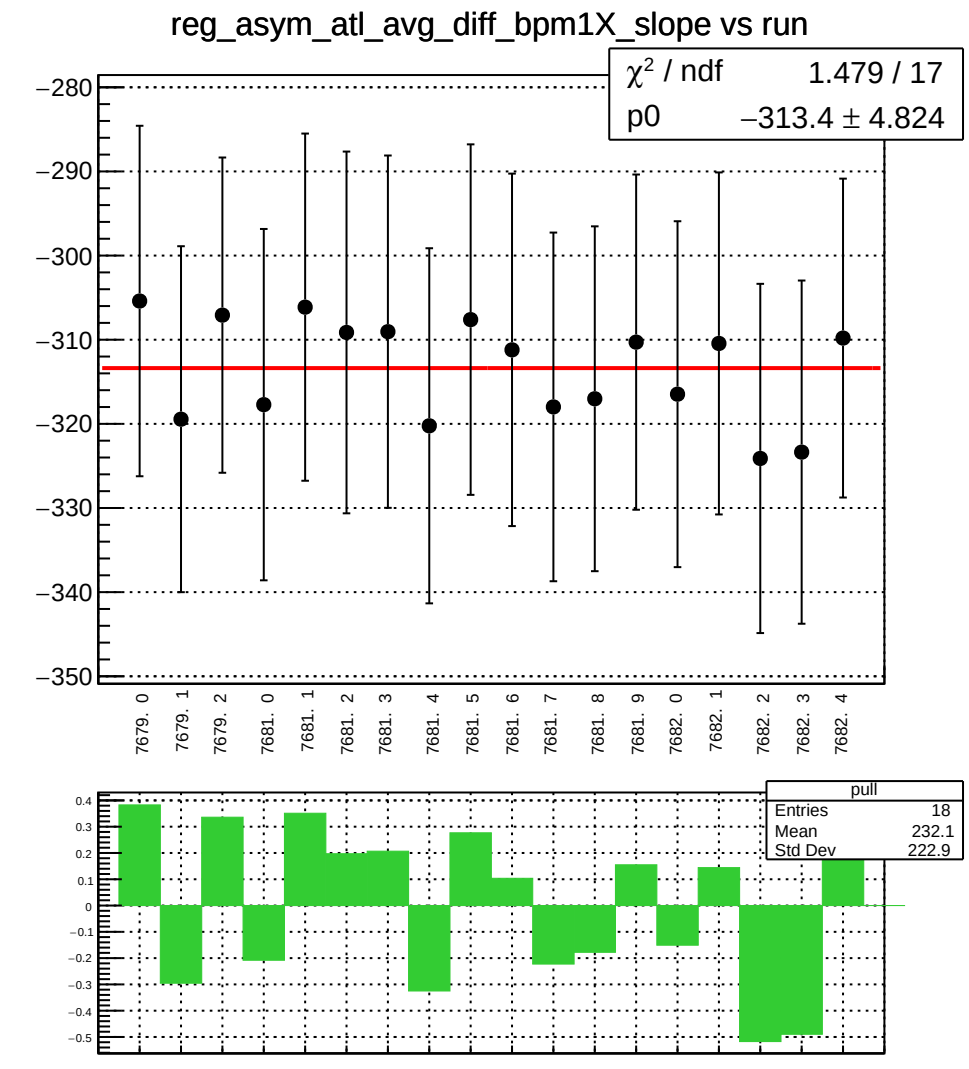

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 1.634 / 17
p0 5.34 ± 26.48
200
150
100
50
0
−50
−100
−150
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −356.7
Std Dev 364.9
0.4
0.2
0
−0.2
−0.4

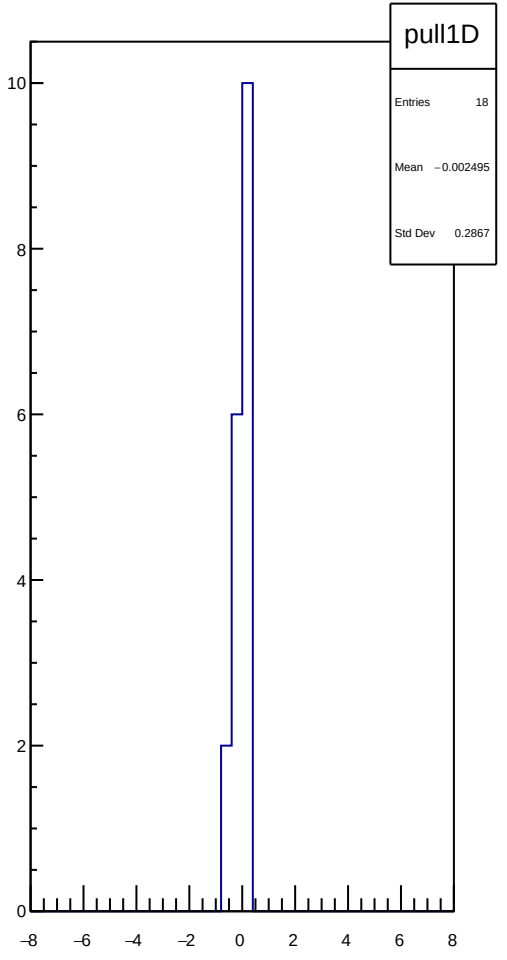

pull1D
Entries 18
Mean 0.001451
Std Dev 0.3013
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

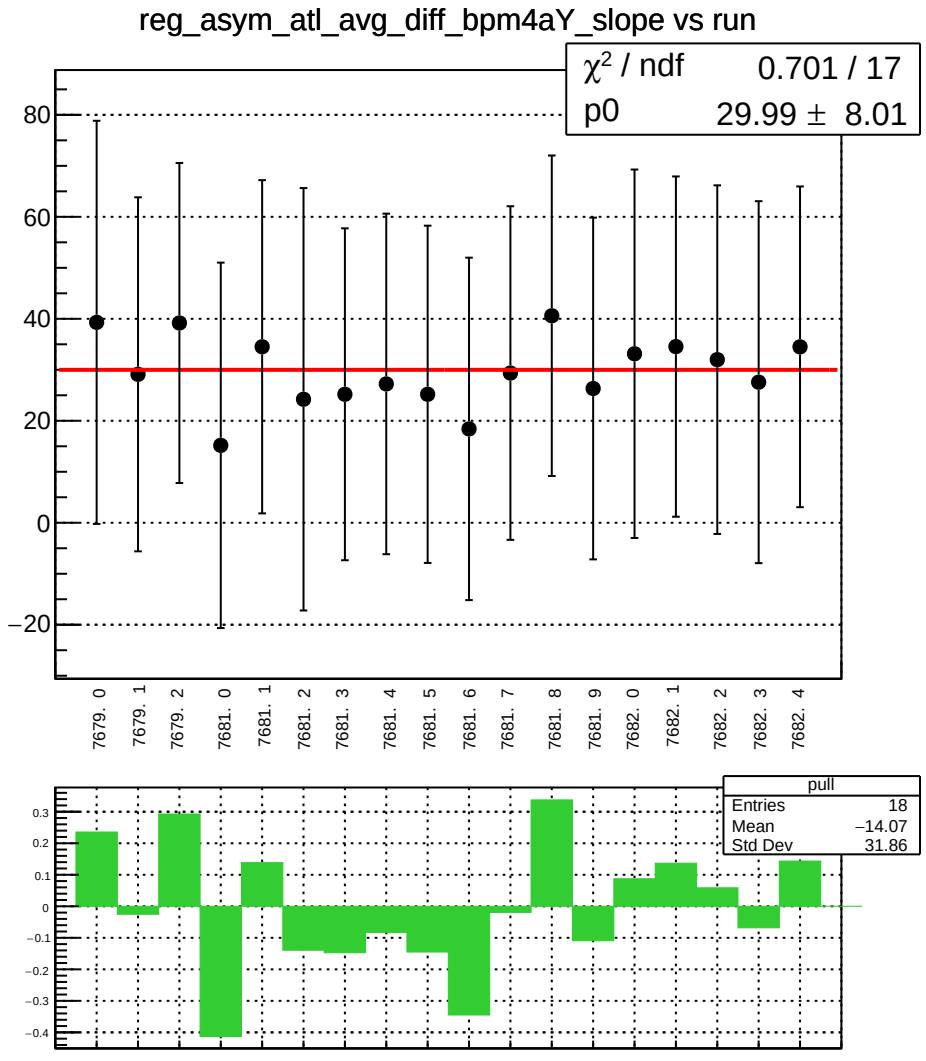

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 2.3 / 17
p0 −308.8 ± 1.346
−300
−305
−310
−315
−320
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

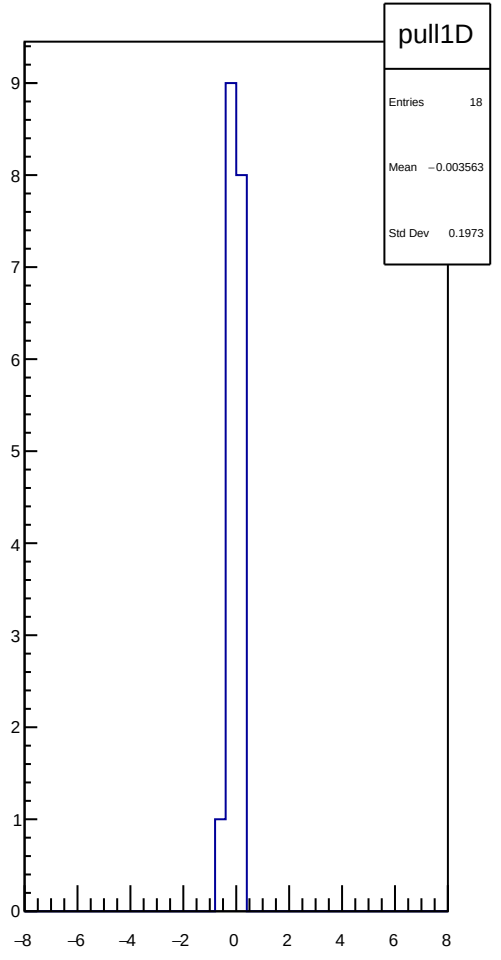

pull
Entries 18
Mean −1254
Std Dev 1264
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

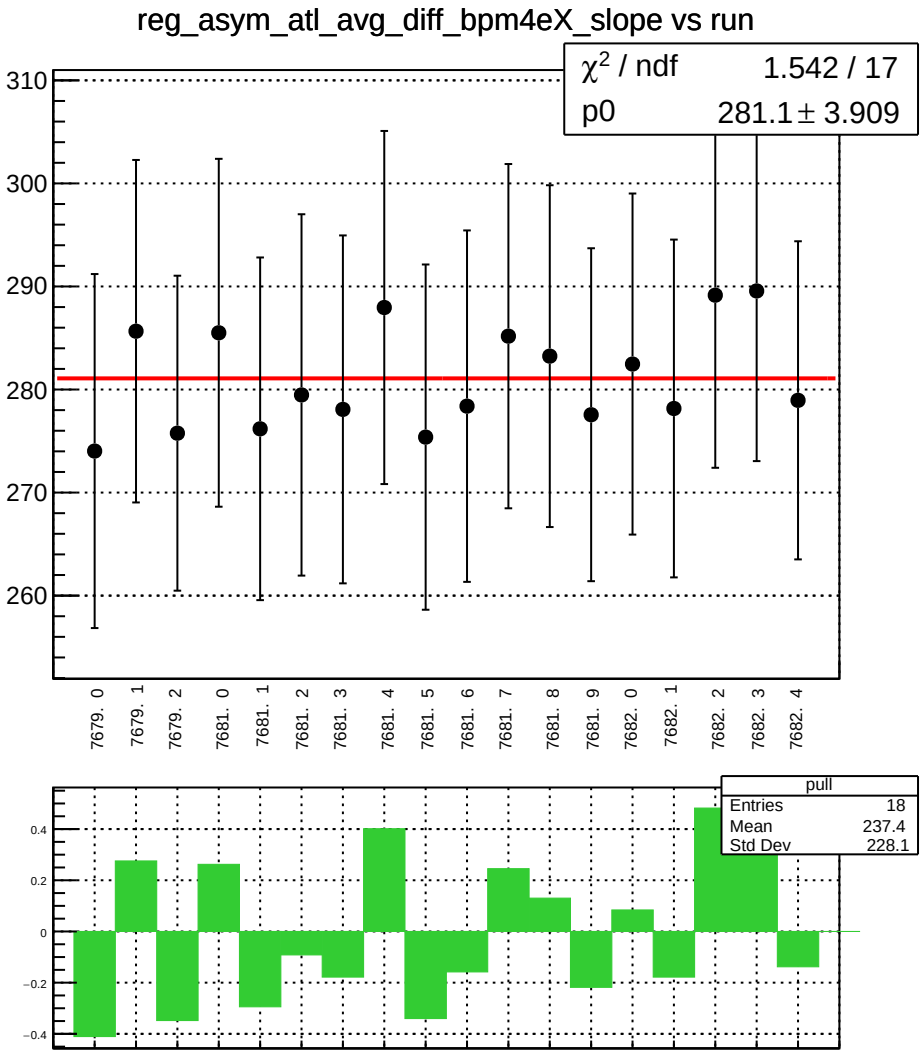

pull1D
Entries 18
Mean 0.0008428
Std Dev 0.3575
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

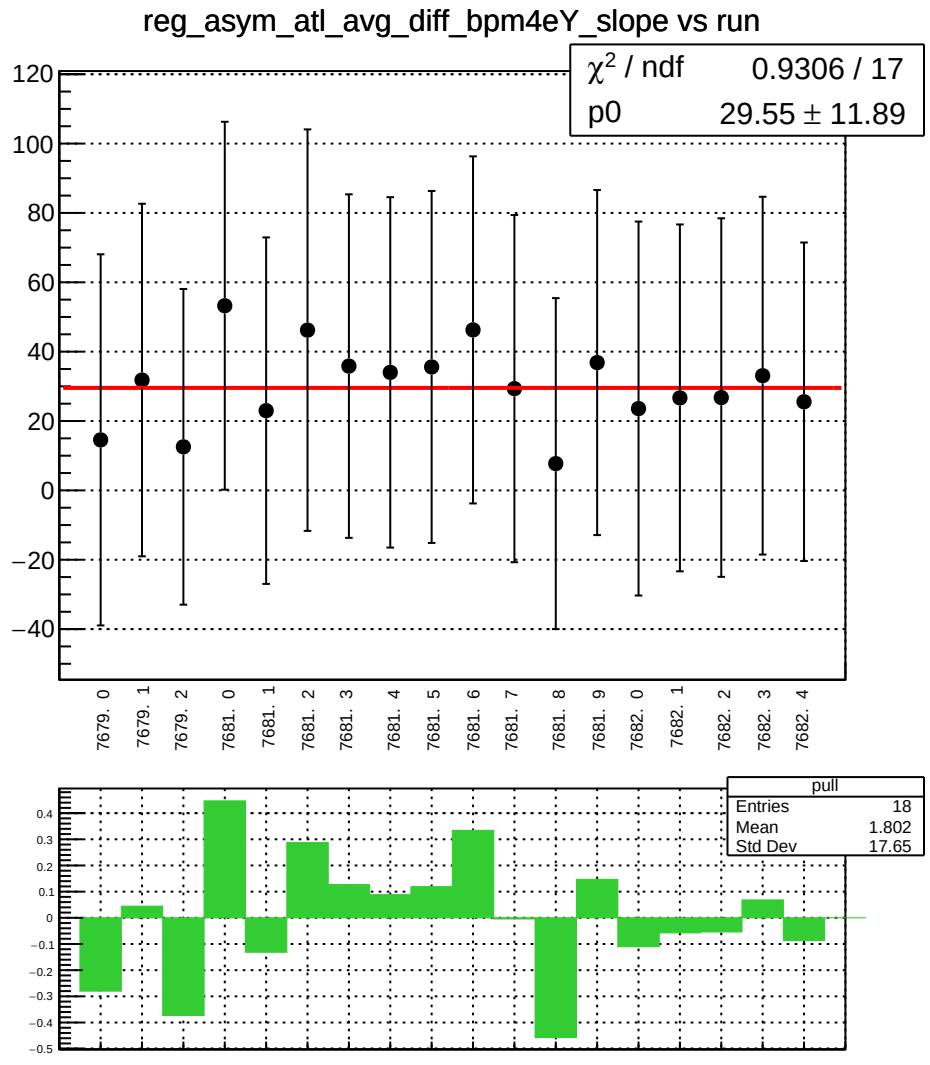

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 1.479 / 17
p0 −313.4 ± 4.824
−280
−290
−300
−310
−320
−330
−340
−350
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 232.1
Std Dev 222.9
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5

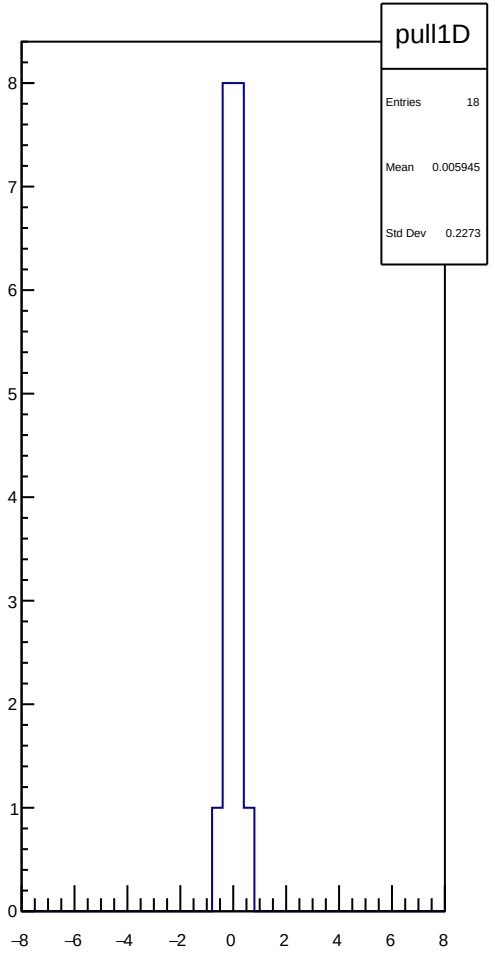

pull1D
Entries 18
Mean −0.002495
Std Dev 0.2867
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

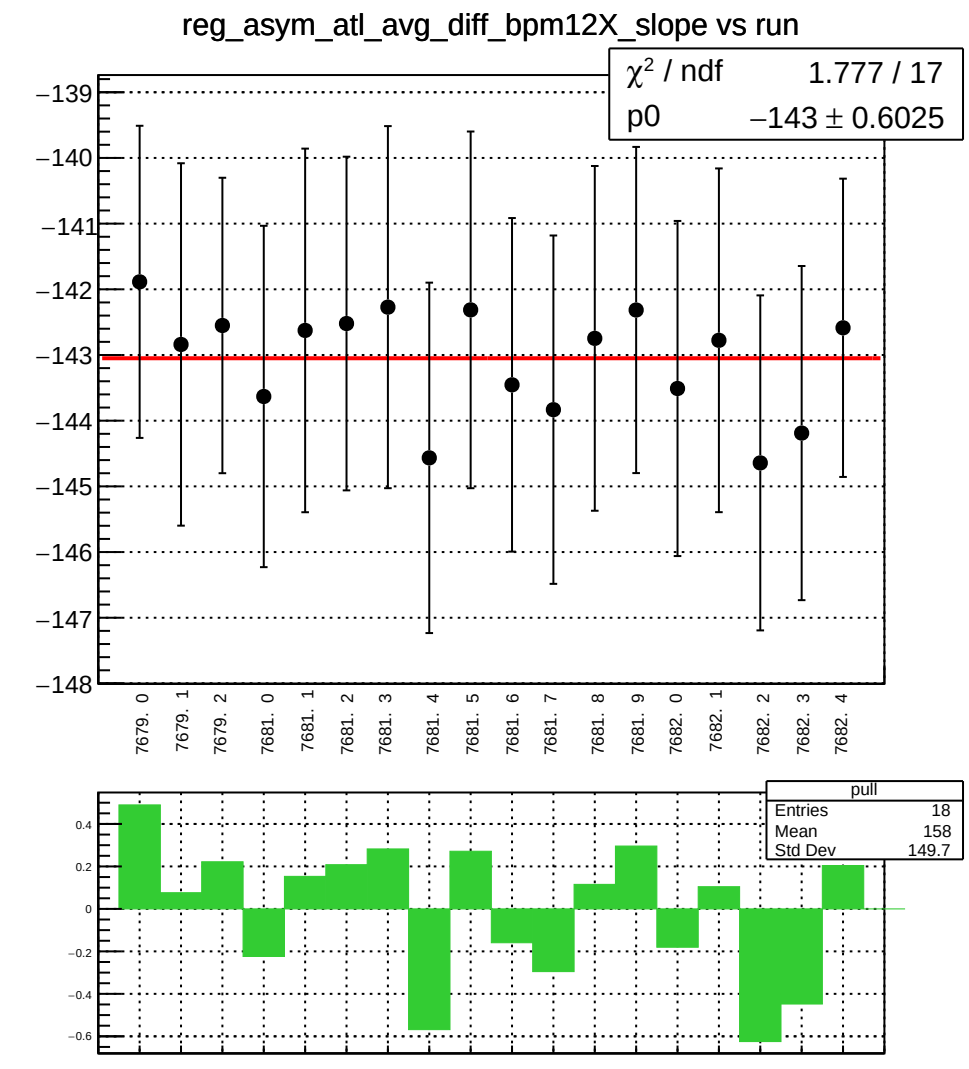

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.701 / 17
p0 29.99 ± 8.01
80
60
40
20
0
−20
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −14.07
Std Dev 31.86
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

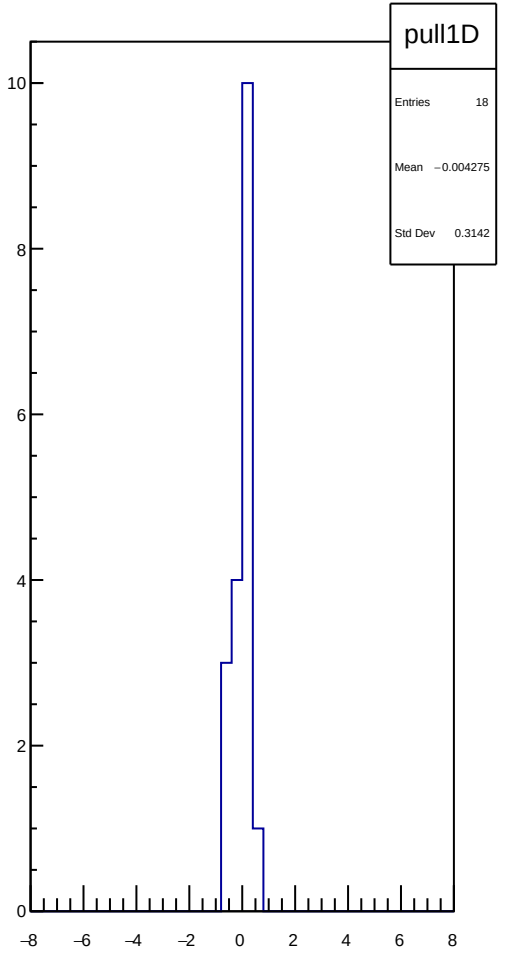

pull1D
Entries 18
Mean −0.003563
Std Dev 0.1973
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

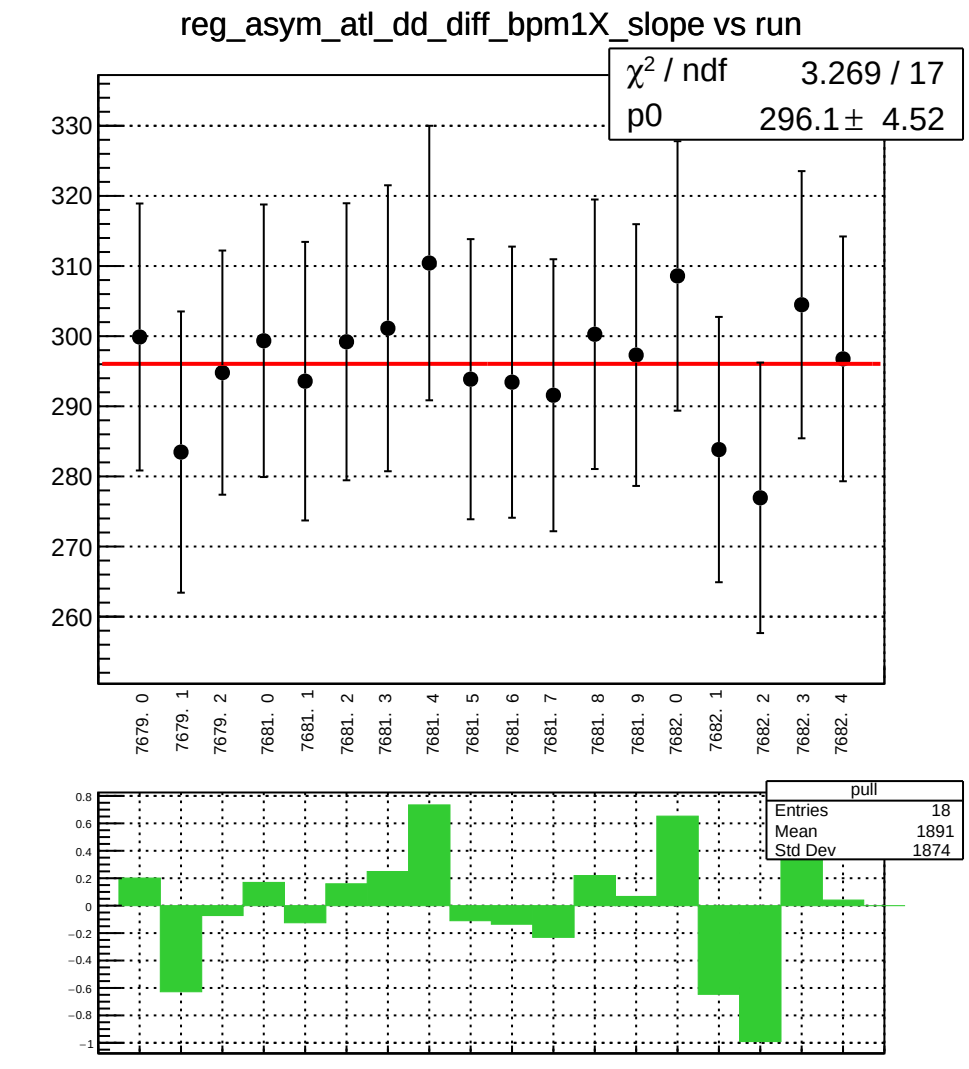

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.542 / 17
p0 281.1 ± 3.909
310
300
290
280
270
260
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 237.4
Std Dev 228.1
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 18
Mean 0.00218
Std Dev 0.2927
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

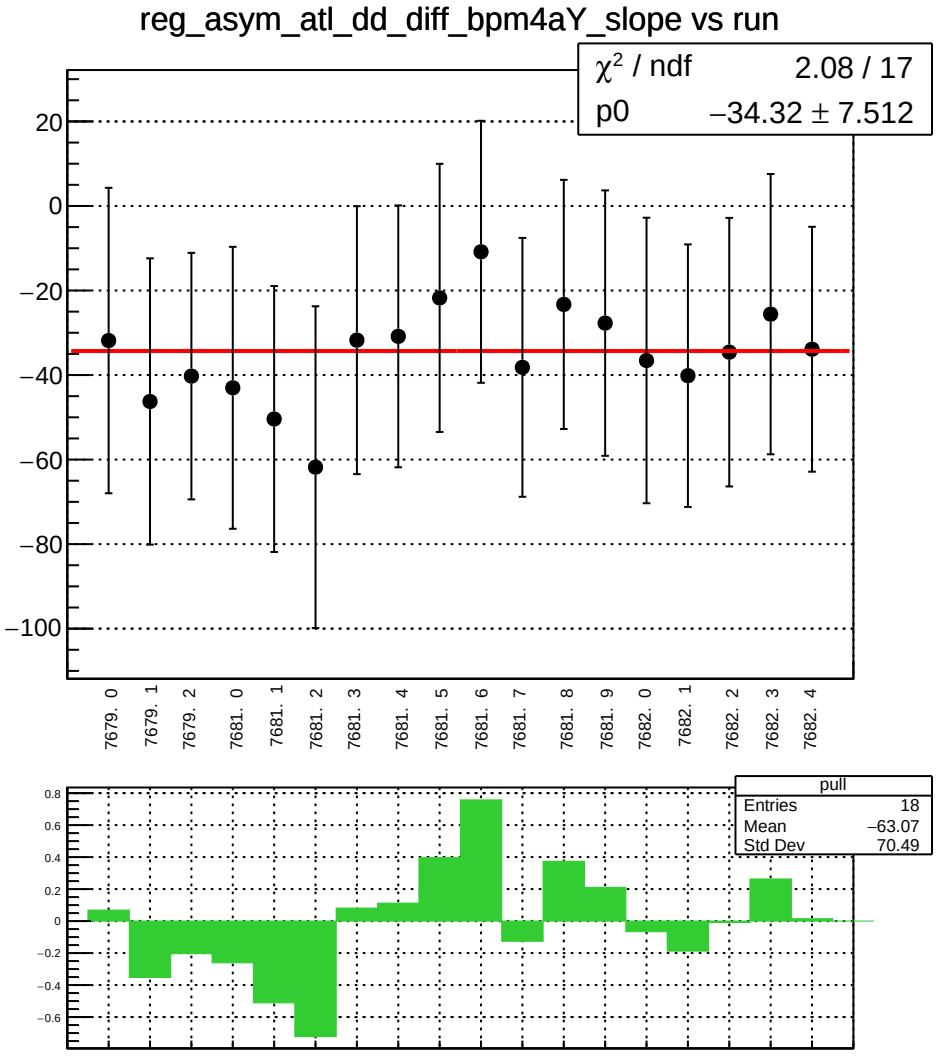

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.9306 / 17
p0 29.55 ± 11.89
120
100
80
60
40
20
0
−20
−40
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 1.802
Std Dev 17.65
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5

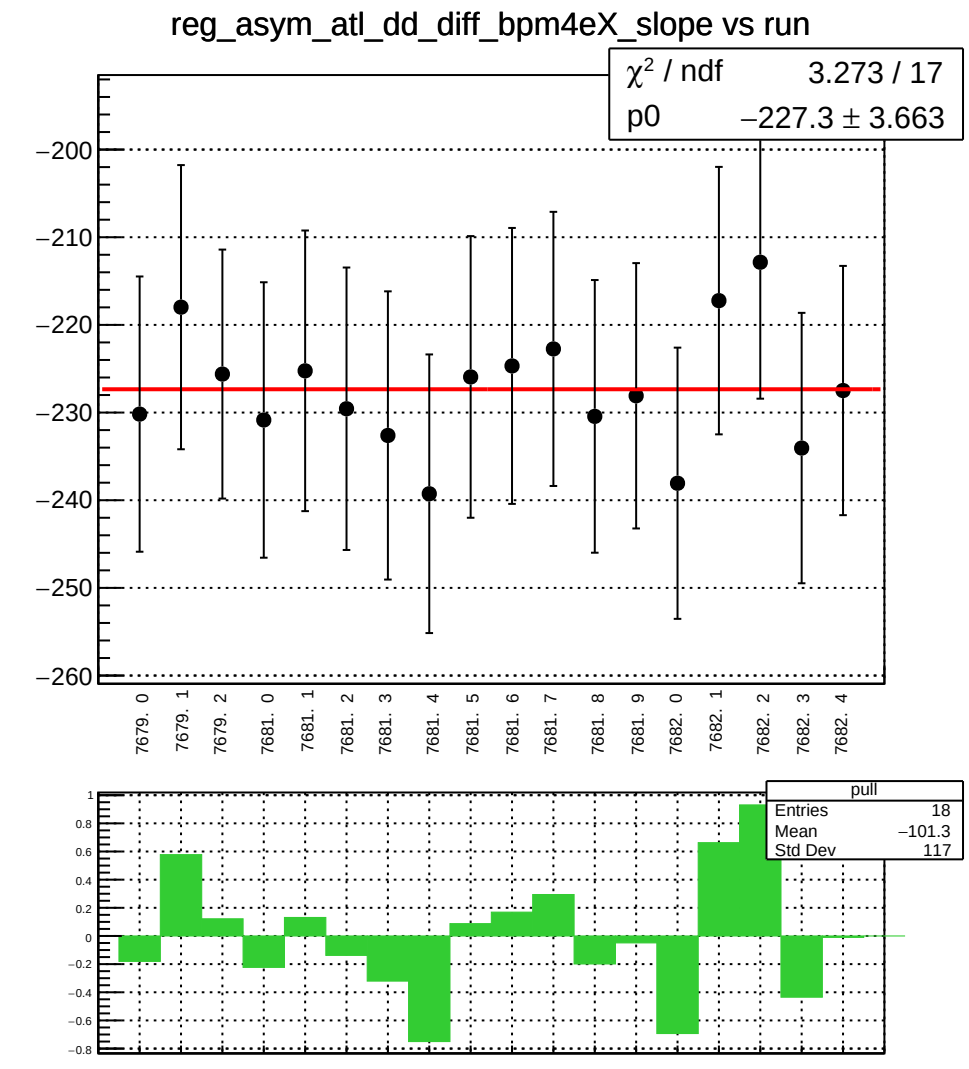

pull1D
Entries 18
Mean 0.005945
Std Dev 0.2273
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

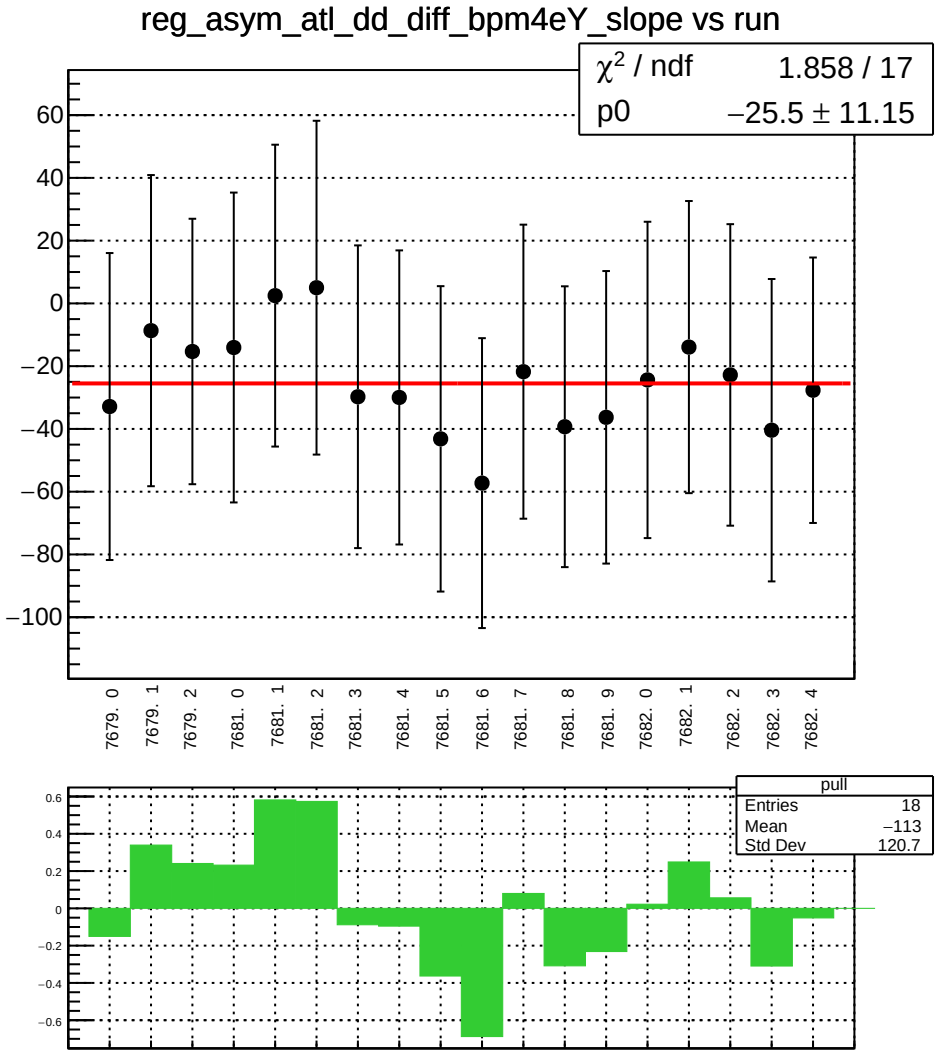

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 1.777 / 17
p0 −143 ± 0.6025
−139
−140
−141
−142
−143
−144
−145
−146
−147
−148
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 158
Std Dev 149.7
0.4
0.2
0
−0.2
−0.4
−0.6

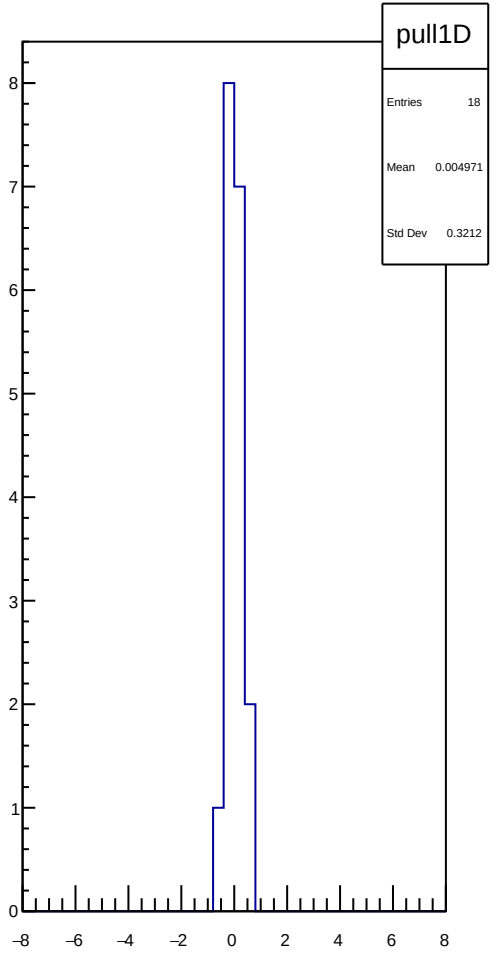

pull1D
Entries 18
Mean −0.004275
Std Dev 0.3142
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

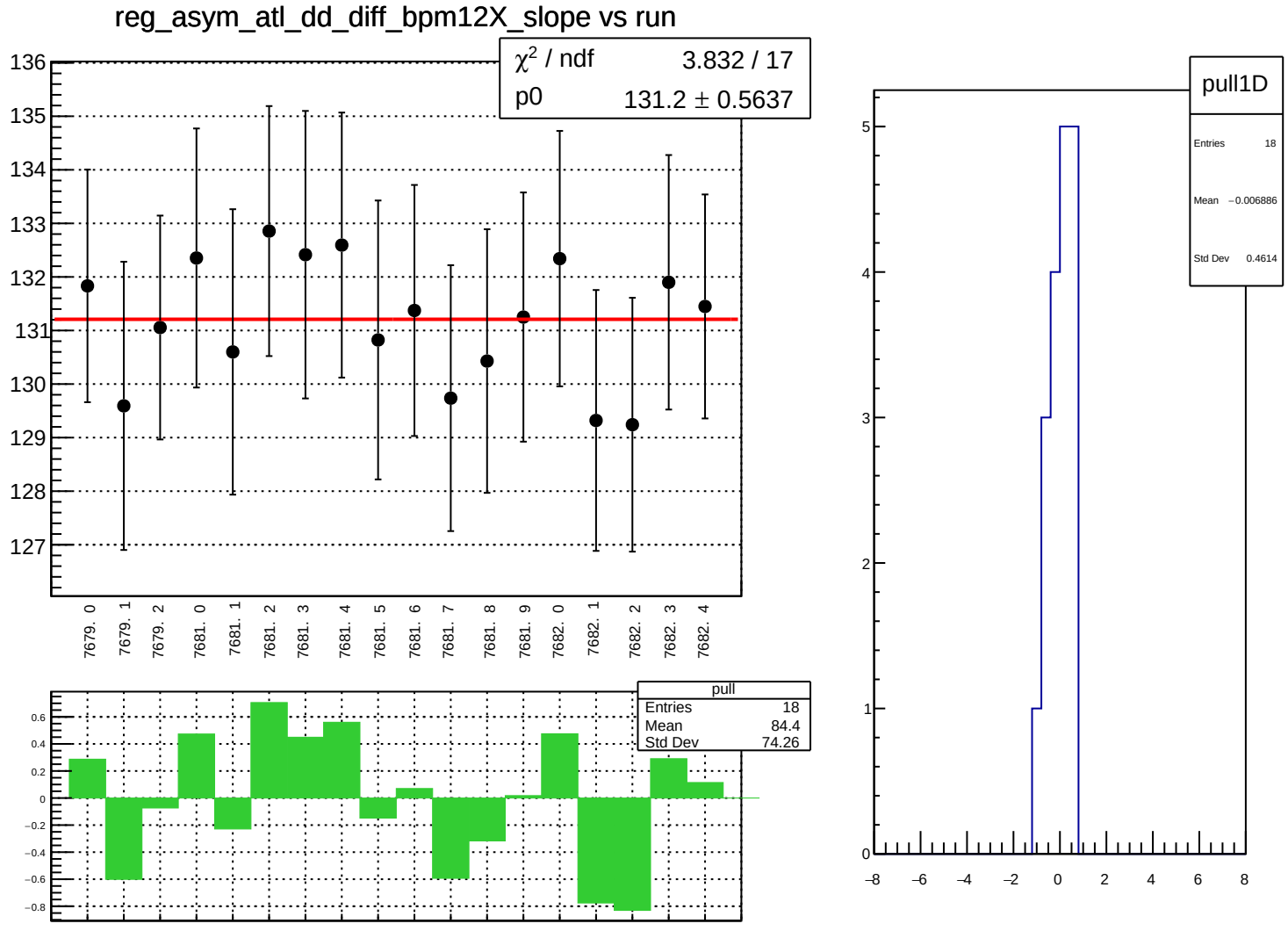

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 3.269 / 17
p0 296.1 ± 4.52
330
320
310
300
290
280
270
260
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 1891
Std Dev 1874
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 18
Mean −6.364e−05
Std Dev 0.4262
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

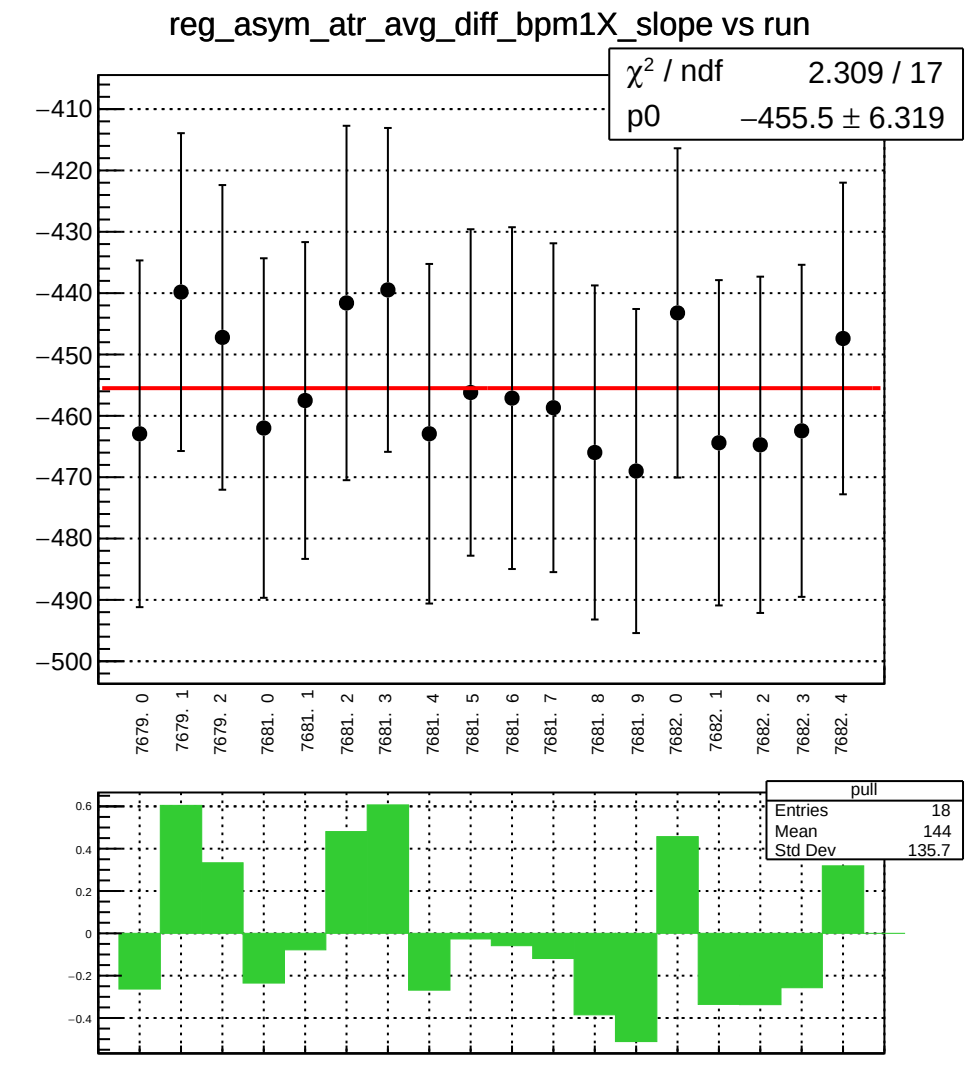

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.08 / 17
p0 −34.32 ± 7.512
20
0
−20
−40
−60
−80
−100
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −63.07
Std Dev 70.49
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 18
Mean −0.008979
Std Dev 0.3398
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

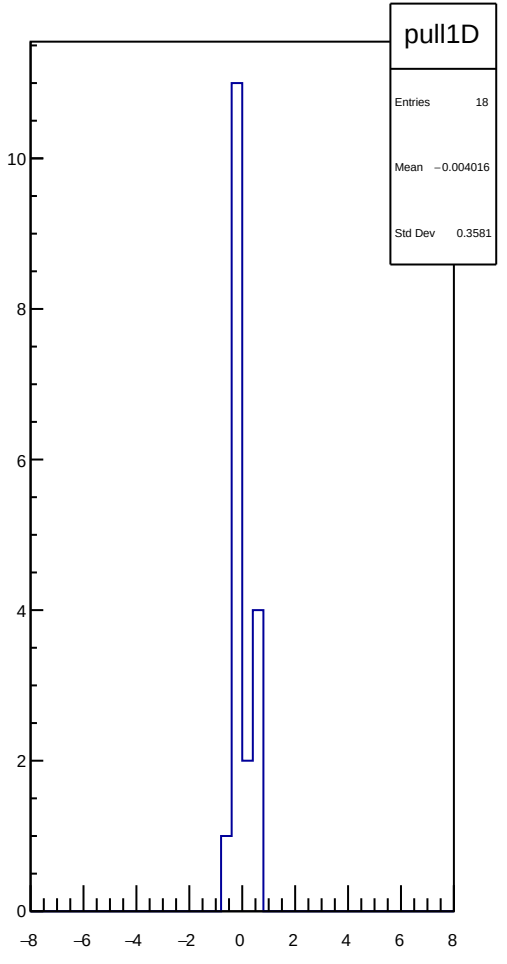

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.273 / 17
p0 −227.3 ± 3.663
−200
−210
−220
−230
−240
−250
−260
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −101.3
Std Dev 117
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 18
Mean −0.001257
Std Dev 0.4264
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

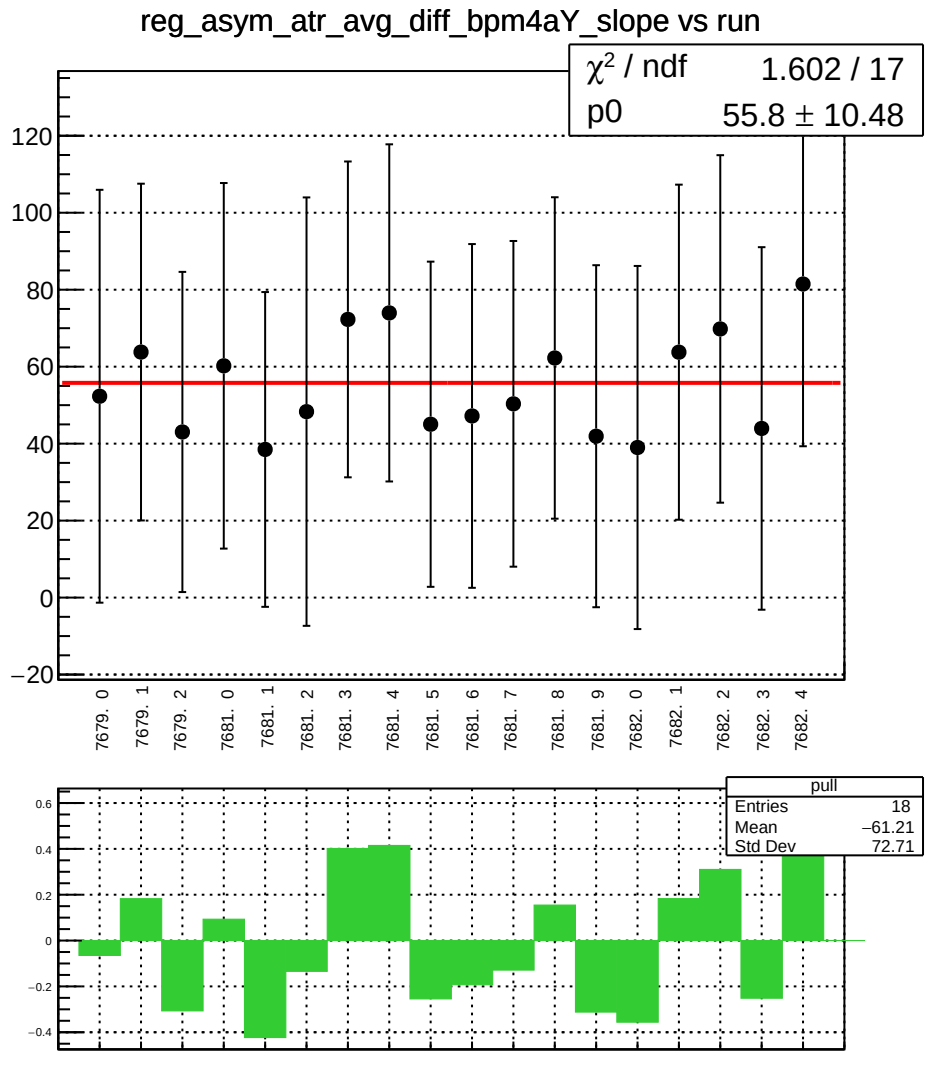

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.858 / 17
p0 −25.5 ± 11.15
60
40
20
0
−20
−40
−60
−80
−100
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −113
Std Dev 120.7
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

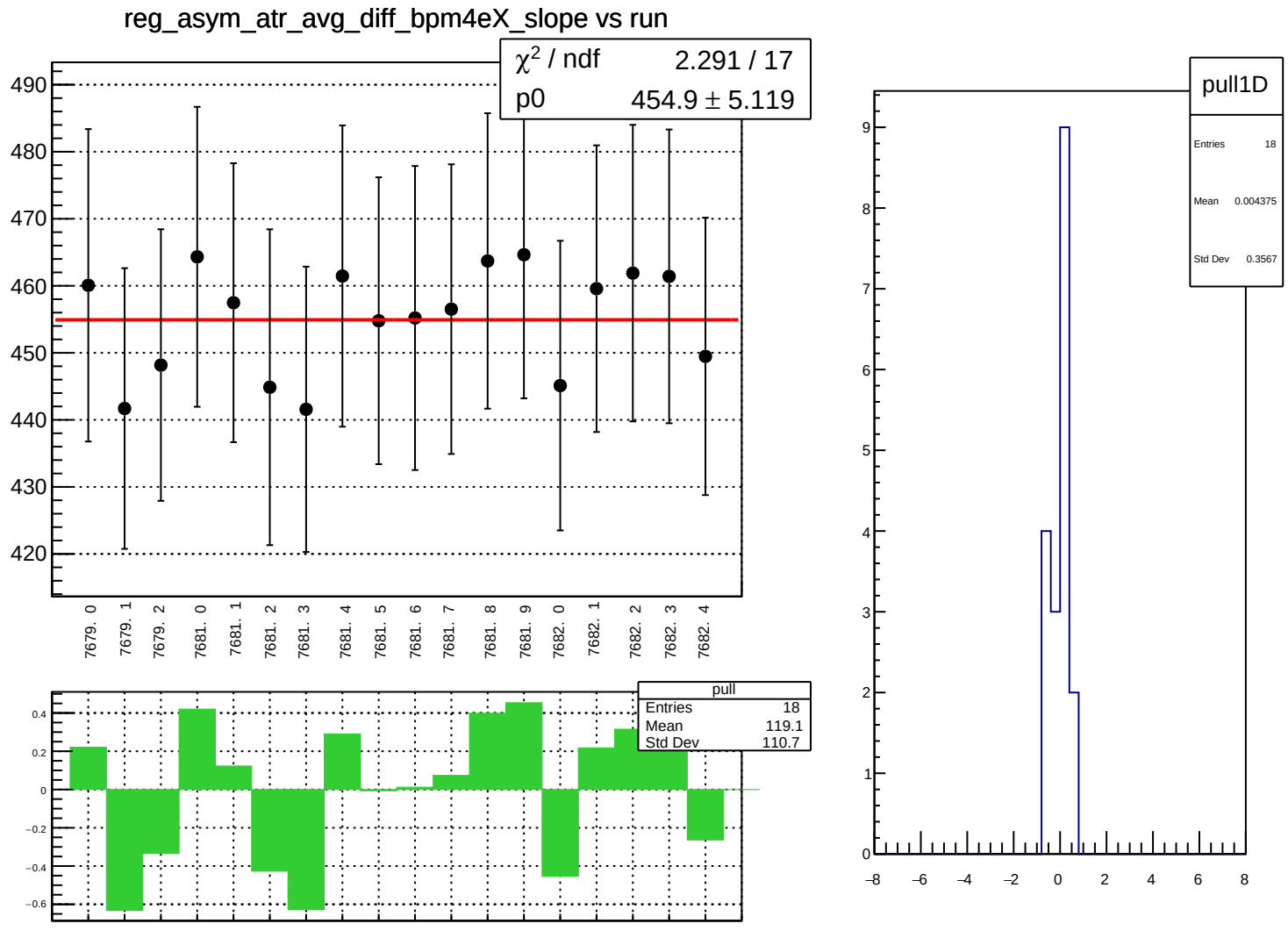

pull1D
Entries 18
Mean 0.004971
Std Dev 0.3212
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

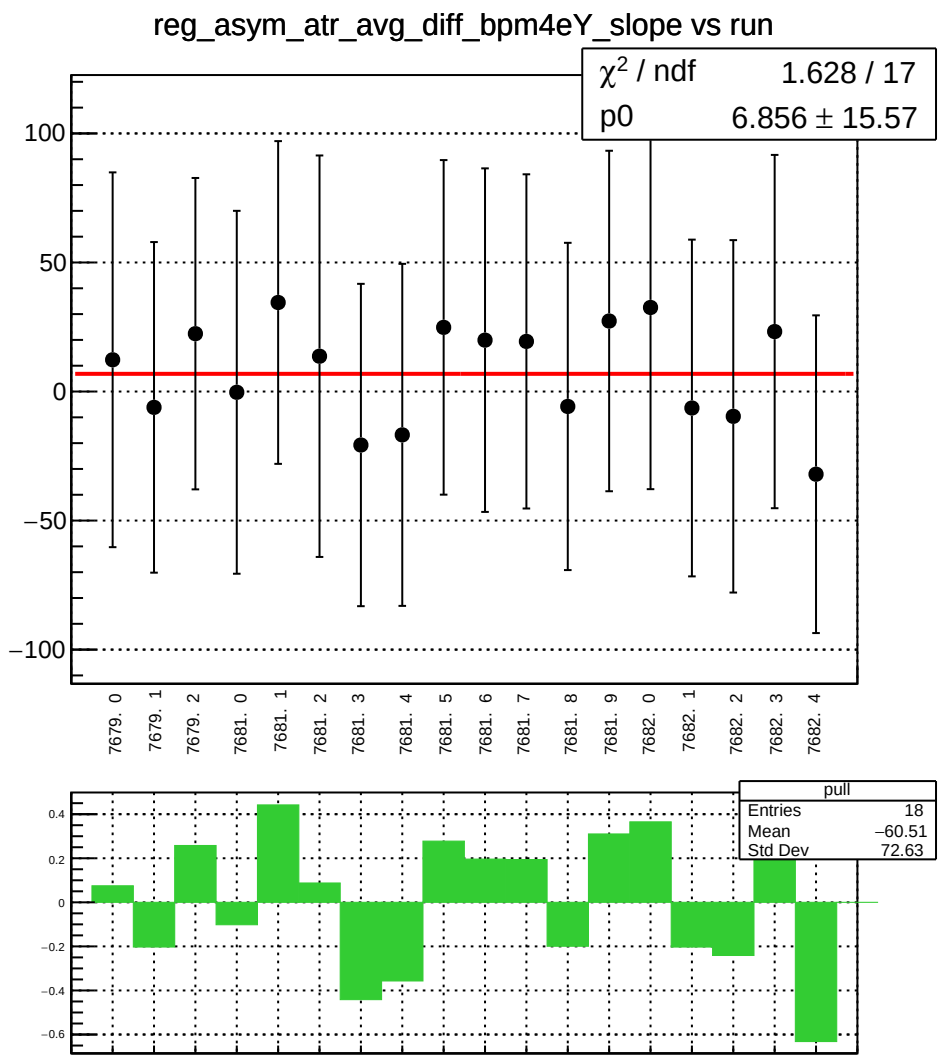

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 3.832 / 17
p0 131.2 ± 0.5637
136
135
134
133
132
131
130
129
128
127
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 84.4
Std Dev 74.26
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 18
Mean −0.006886
Std Dev 0.4614
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

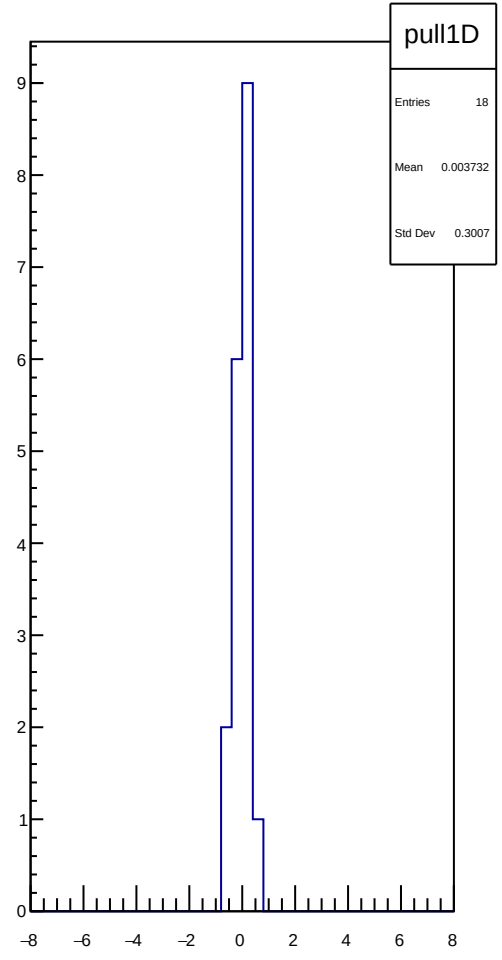

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 2.309 / 17
p0 −455.5 ± 6.319
−410
−420
−430
−440
−450
−460
−470
−480
−490
−500
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 144
Std Dev 135.7
0.6
0.4
0.2
0
−0.2
−0.4

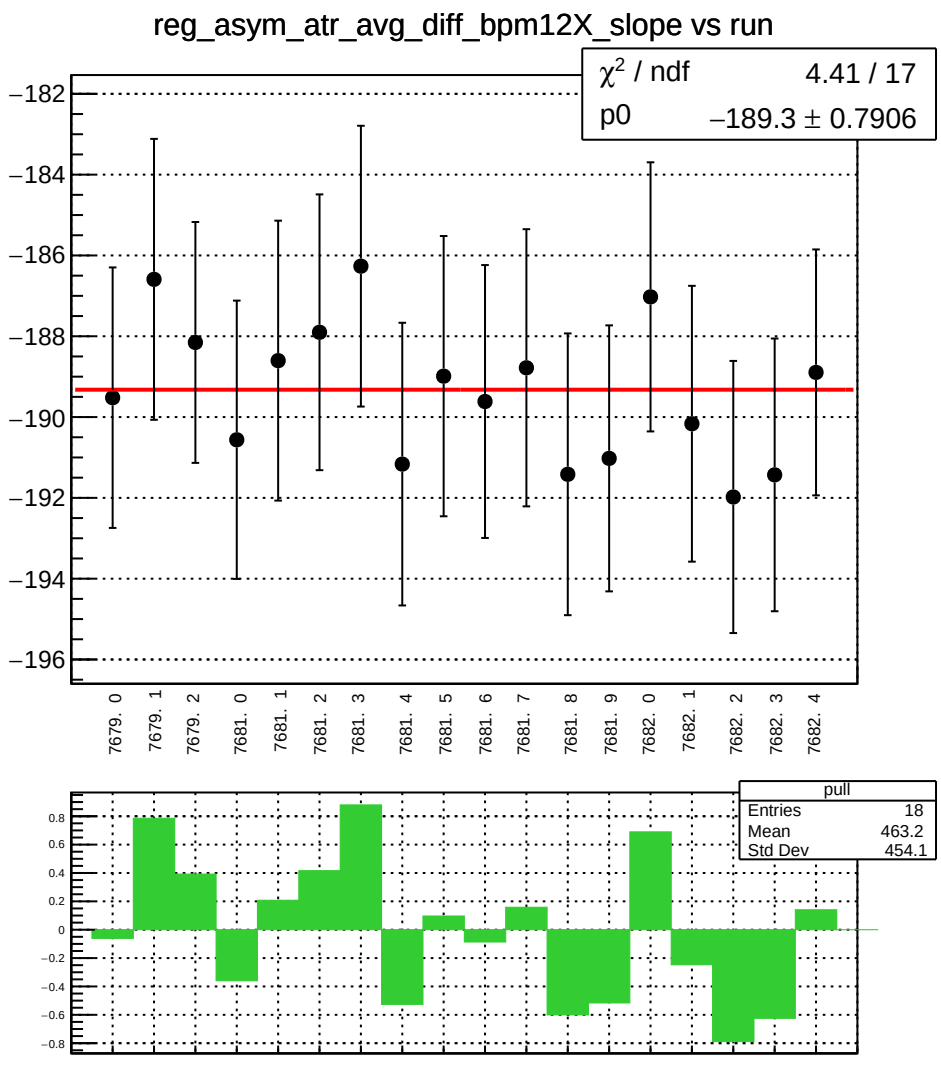

pull1D
Entries 18
Mean −0.004016
Std Dev 0.3581
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

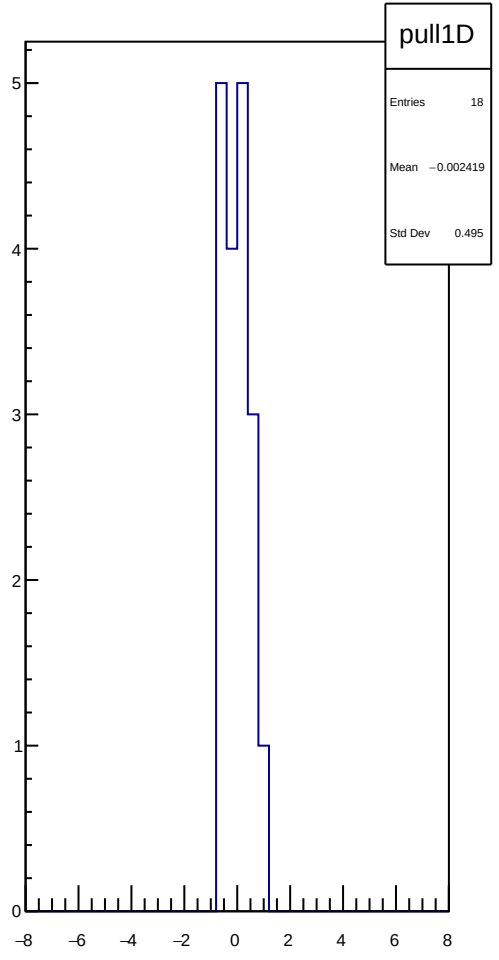

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.602 / 17
p0 55.8 ± 10.48
120
100
80
60
40
20
0
−20
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −61.21
Std Dev 72.71
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 18
Mean −0.004158
Std Dev 0.2983
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

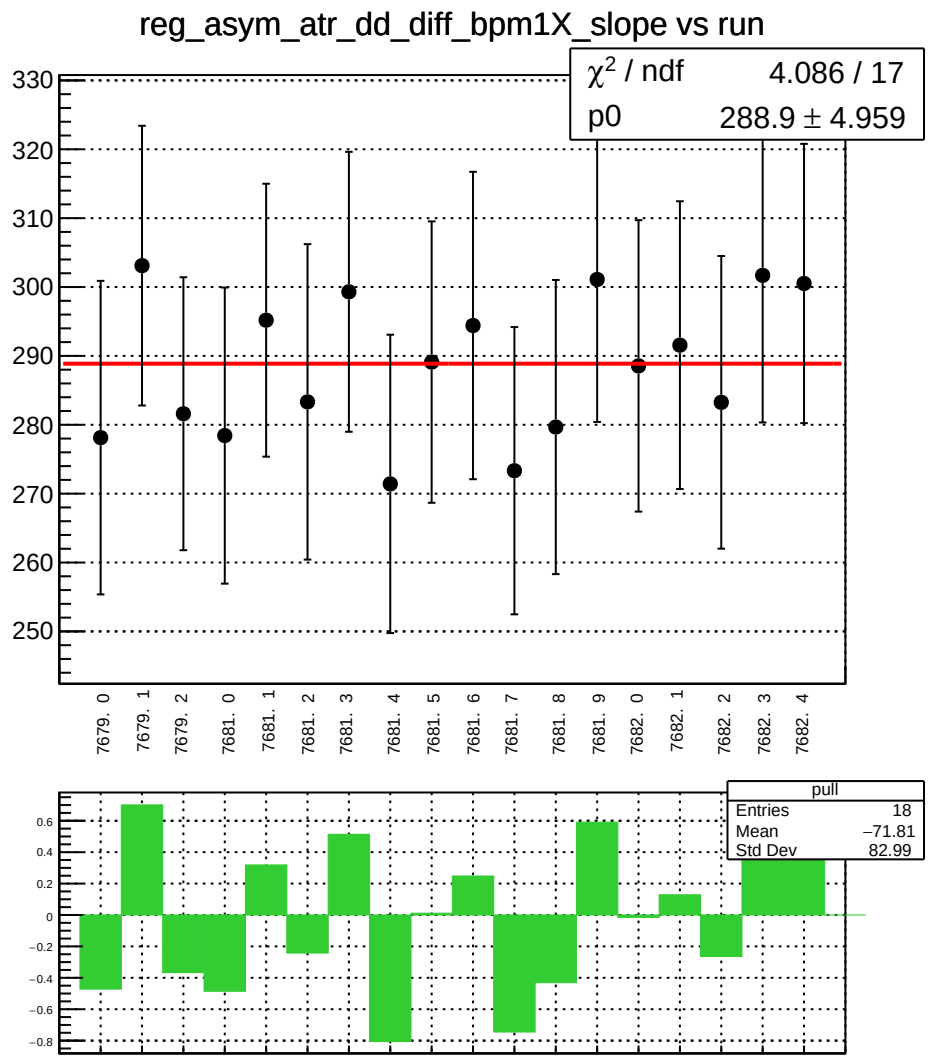

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.291 / 17
p0 454.9 ± 5.119
490
480
470
460
450
440
430
420
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 119.1
Std Dev 110.7
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 18
Mean 0.004375
Std Dev 0.3567
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

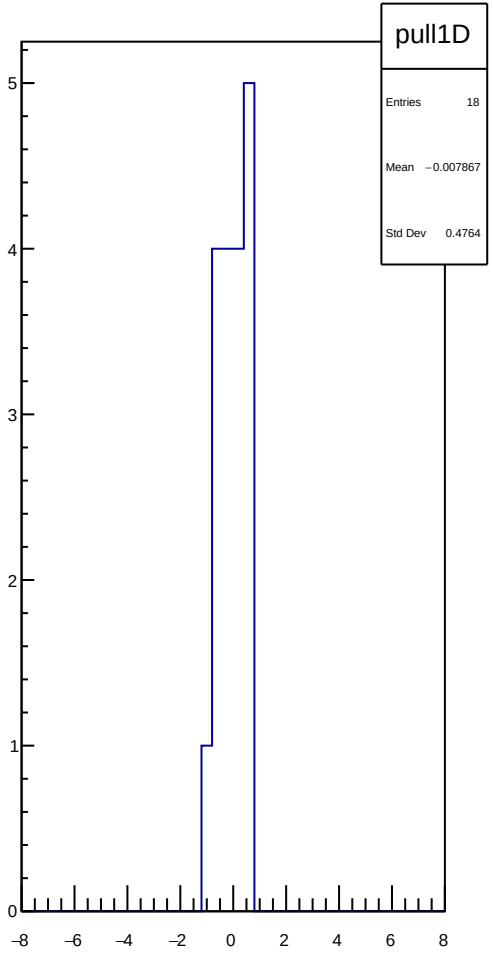

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.628 / 17
p0 6.856 ± 15.57
100
50
0
−50
−100
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −60.51
Std Dev 72.63
0.4
0.2
0
−0.2
−0.4
−0.6

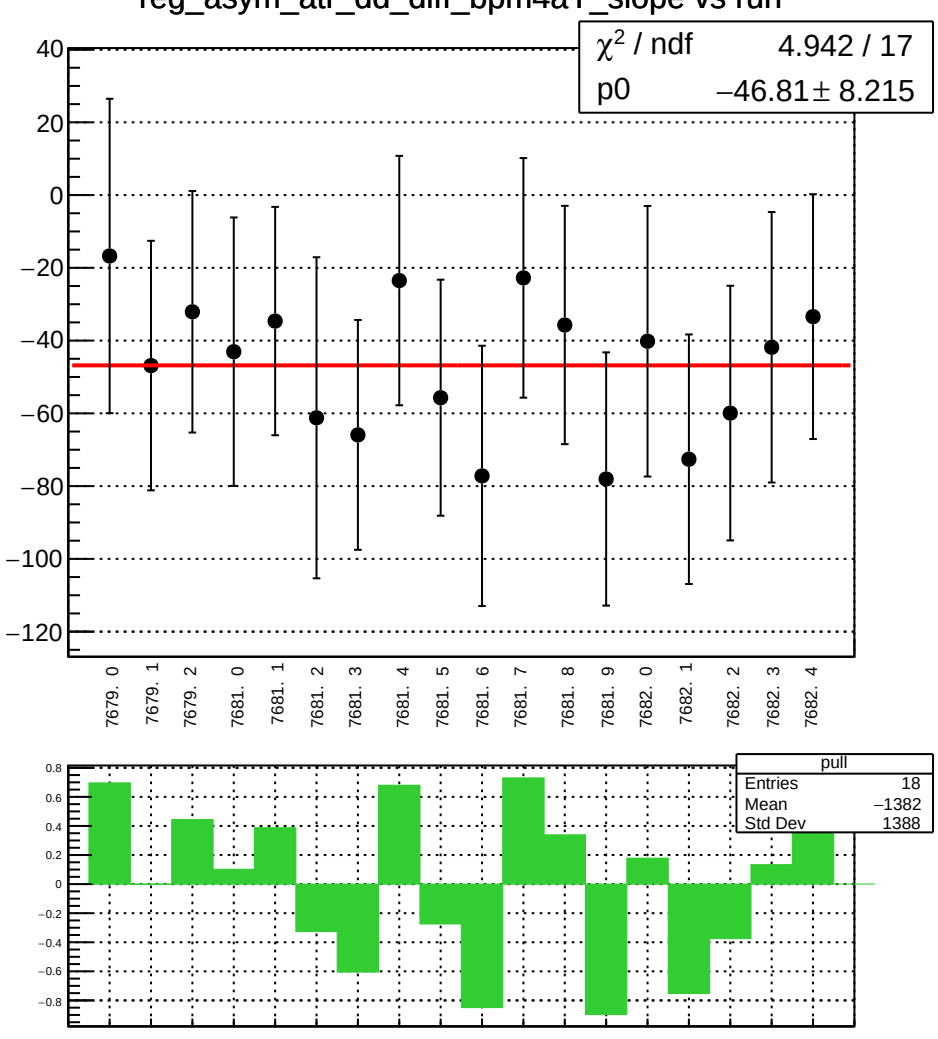

pull1D
Entries 18
Mean 0.003732
Std Dev 0.3007
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

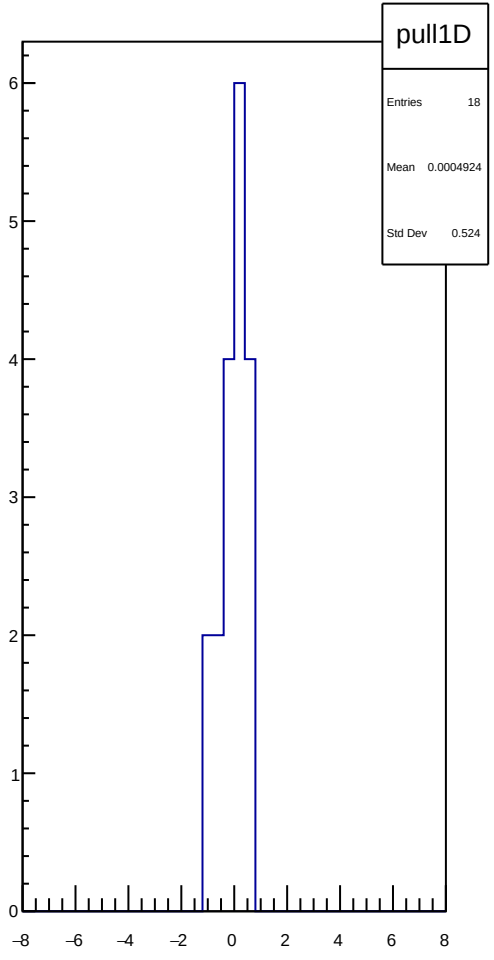

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 4.41 / 17
p0 −189.3 ± 0.7906
−182
−184
−186
−188
−190
−192
−194
−196
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 463.2
Std Dev 454.1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

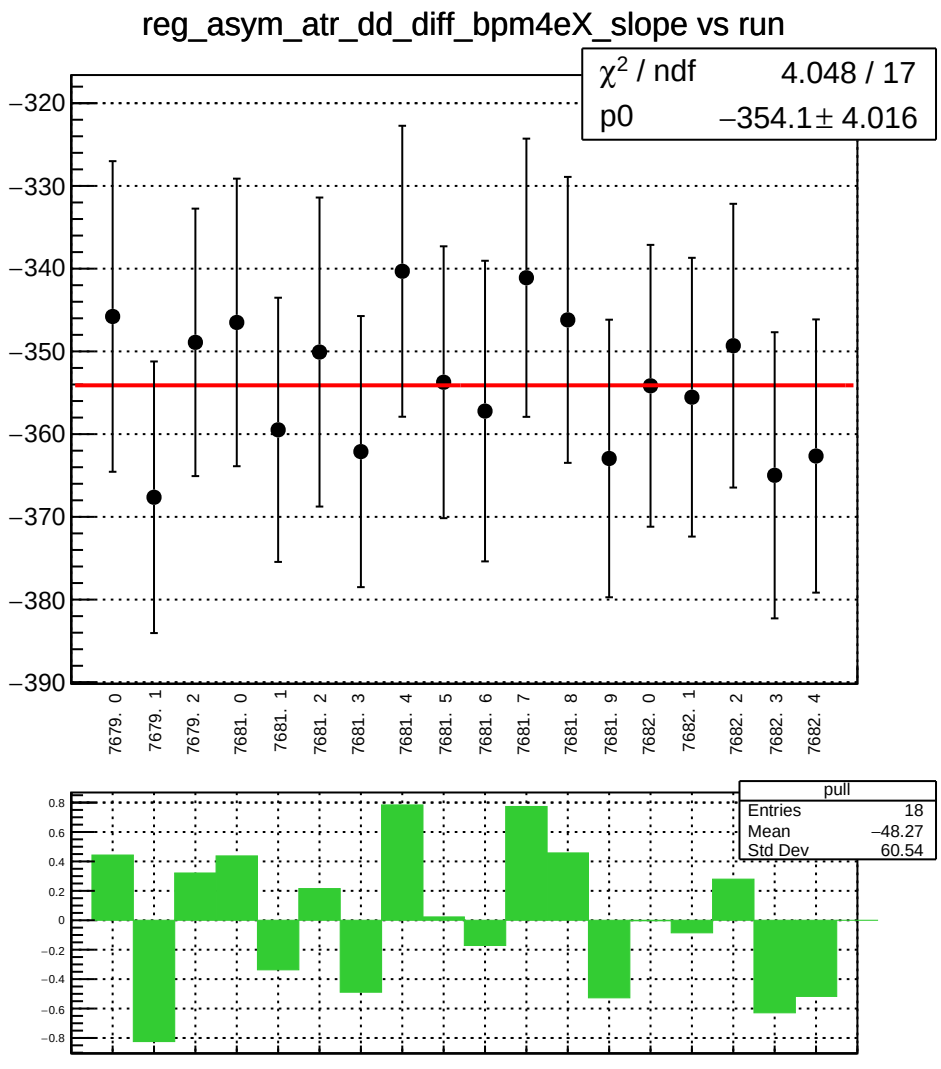

pull1D
Entries 18
Mean −0.002419
Std Dev 0.495
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

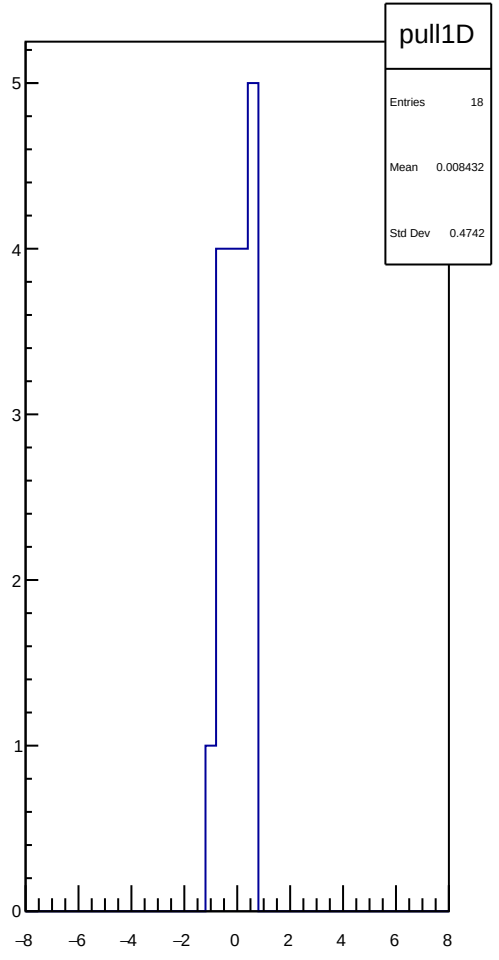

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 4.086 / 17
p0 288.9 ± 4.959
330
320
310
300
290
280
270
260
250
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −71.81
Std Dev 82.99
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

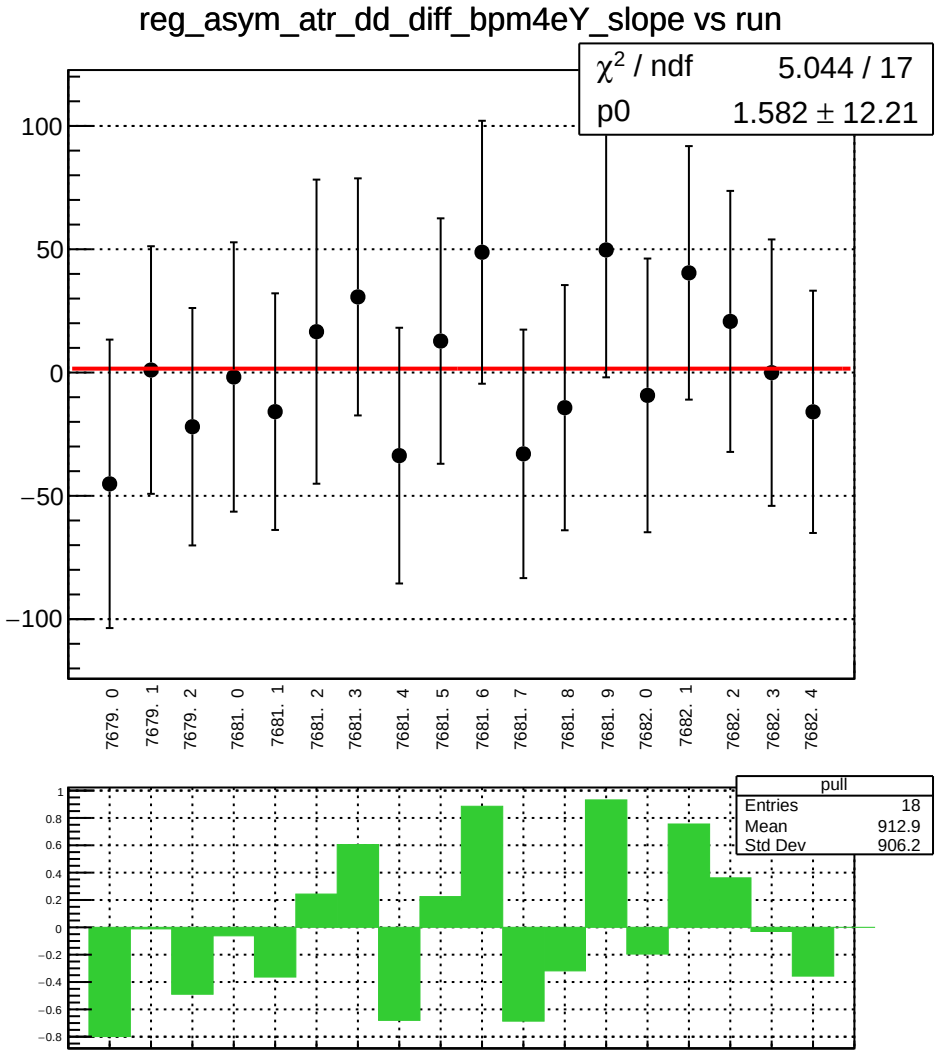

pull1D
Entries 18
Mean −0.007867
Std Dev 0.4764
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

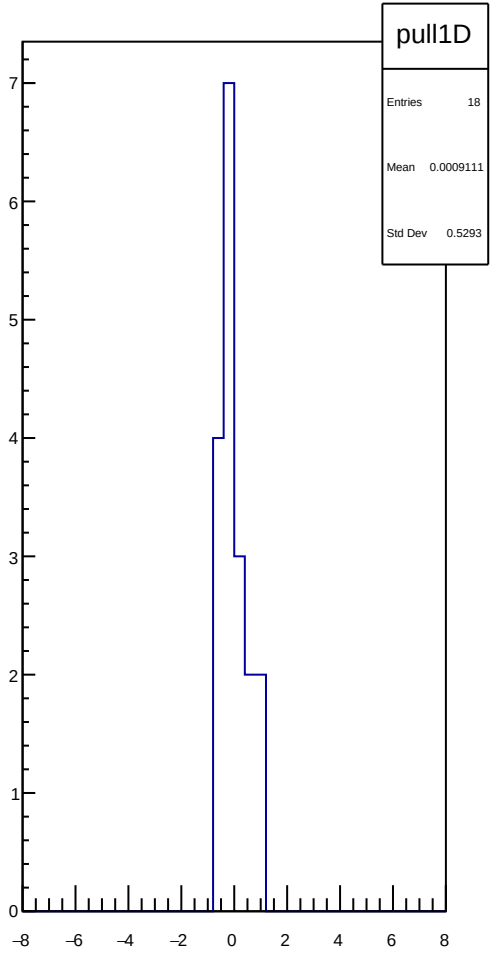

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.942 / 17
p0 −46.81 ± 8.215
40
20
0
−20
−40
−60
−80
−100
−120
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −1382
Std Dev 1388
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

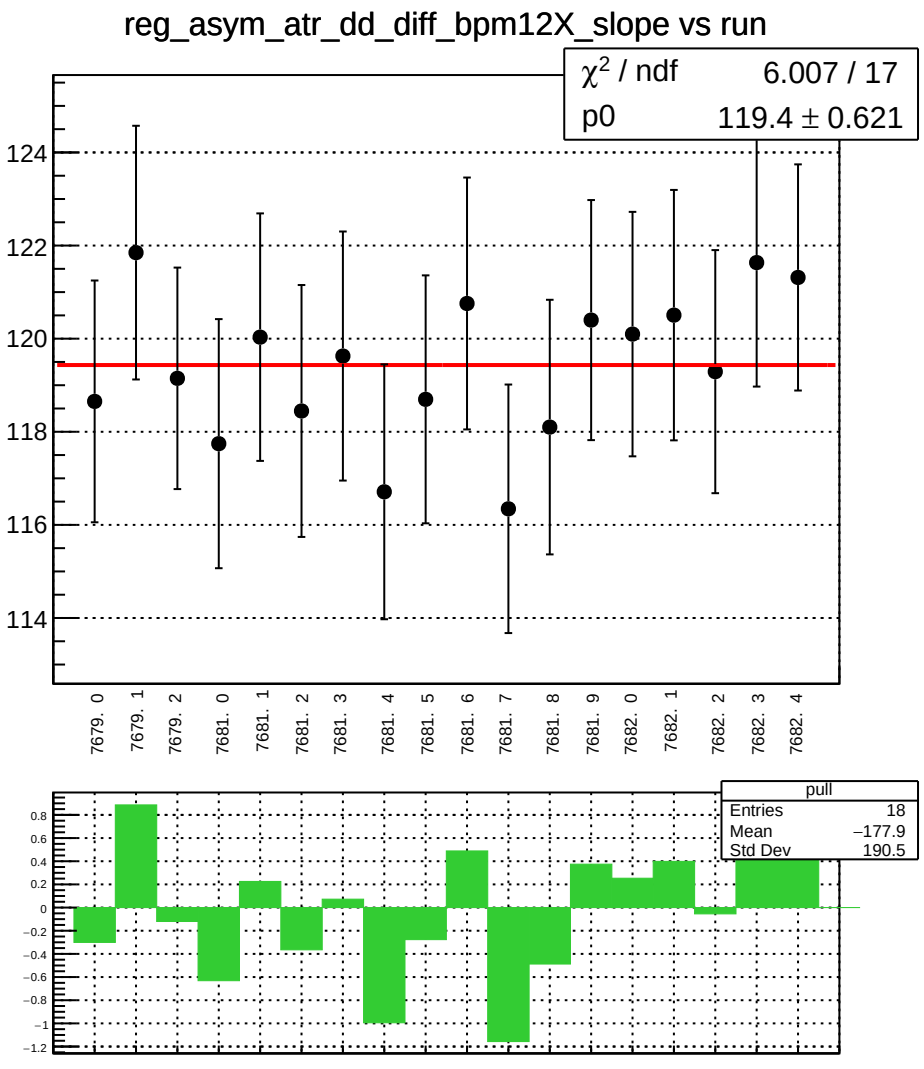

pull1D
Entries 18
Mean 0.0004924
Std Dev 0.524
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

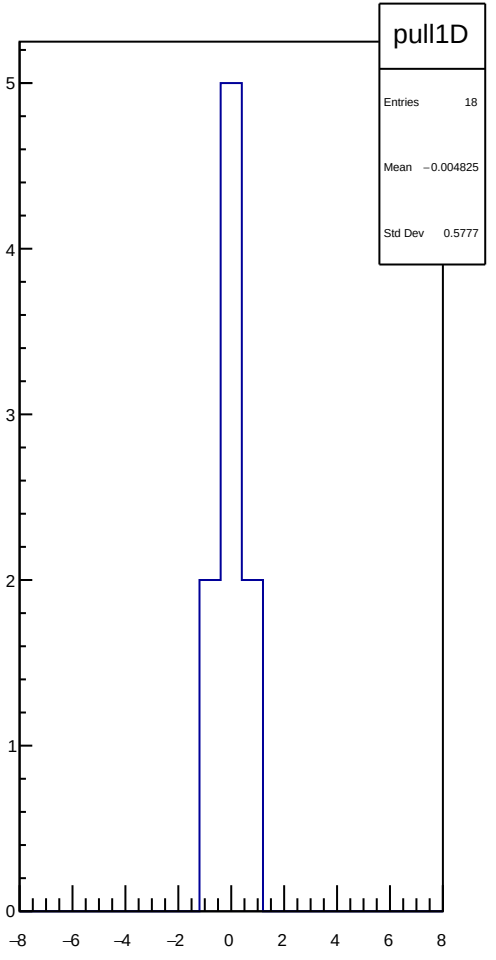

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.048 / 17
p0 −354.1 ± 4.016
−320
−330
−340
−350
−360
−370
−380
−390
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −48.27
Std Dev 60.54
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

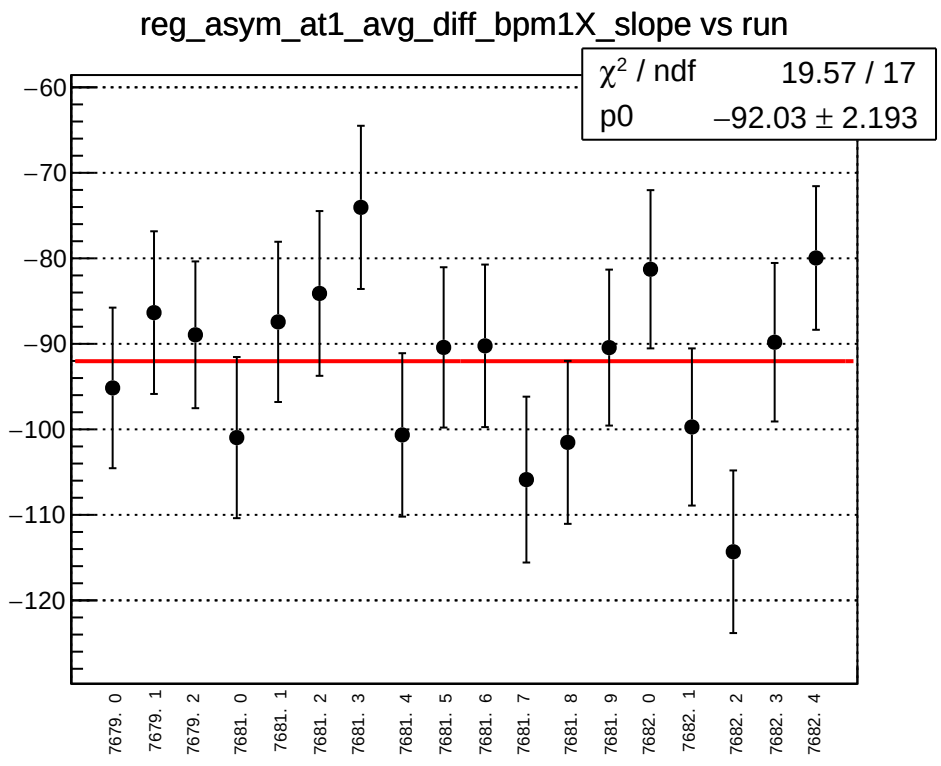

pull1D
Entries 18
Mean 0.008432
Std Dev 0.4742
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

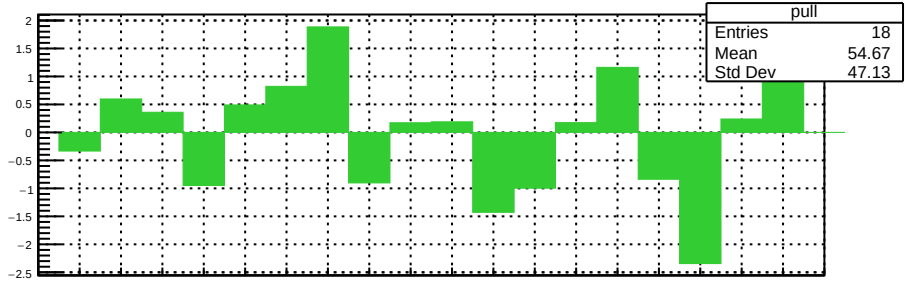

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.044 / 17
p0 1.582 ± 12.21
100
50
0
−50
−100
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 912.9
Std Dev 906.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

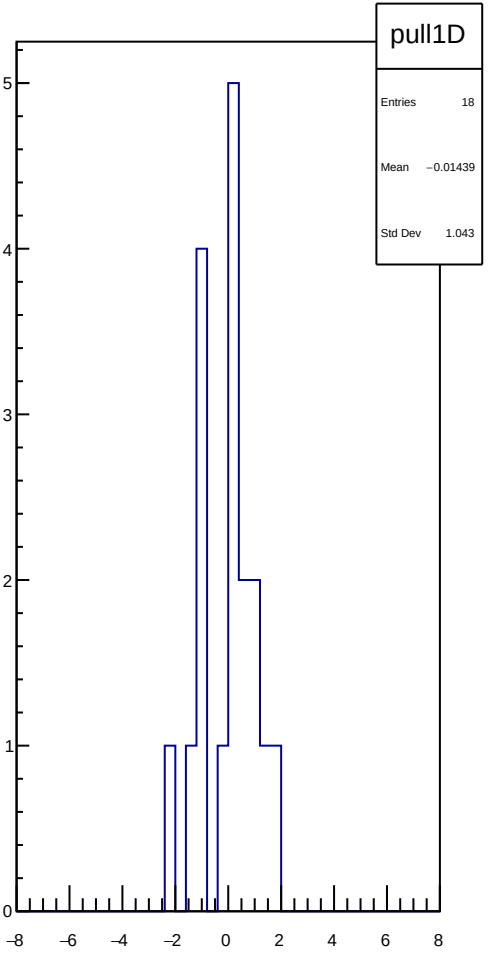

pull1D
Entries 18
Mean 0.0009111
Std Dev 0.5293
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

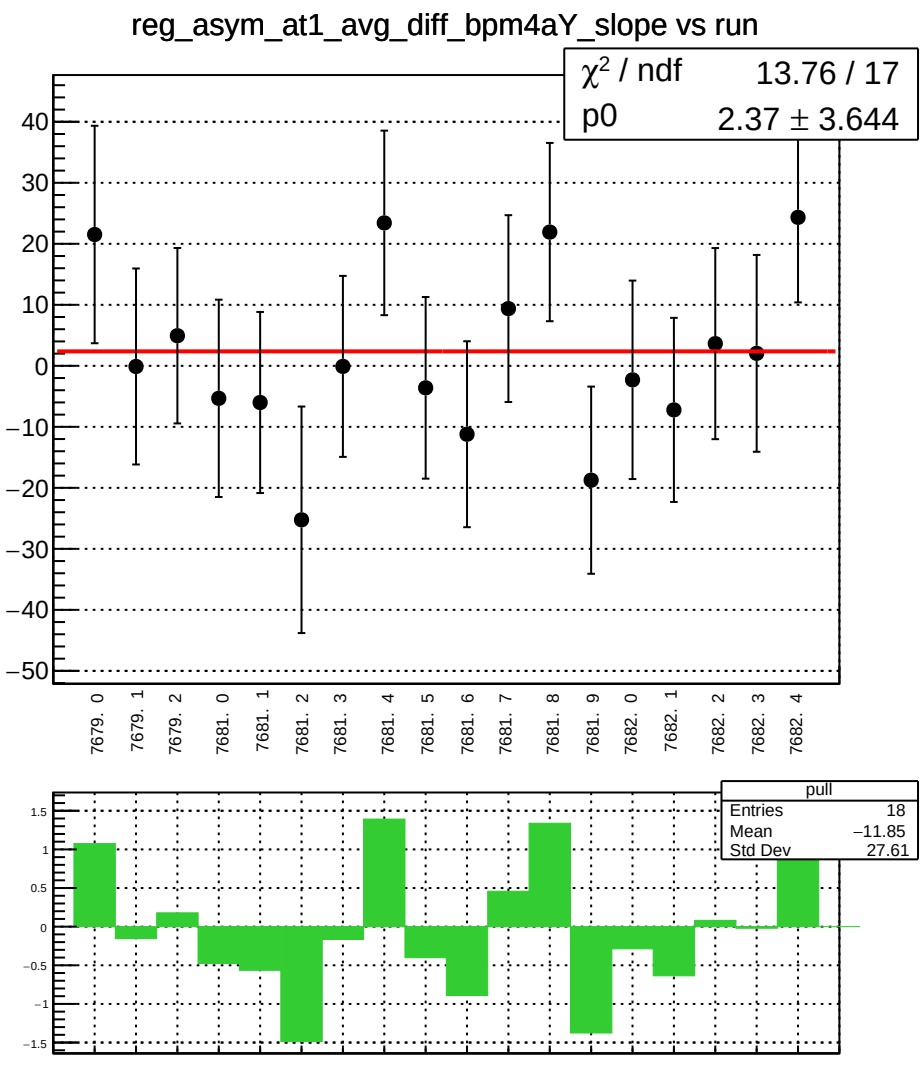

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 6.007 / 17
p0 119.4 ± 0.621
124
122
120
118
116
114
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −177.9
Std Dev 190.5
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

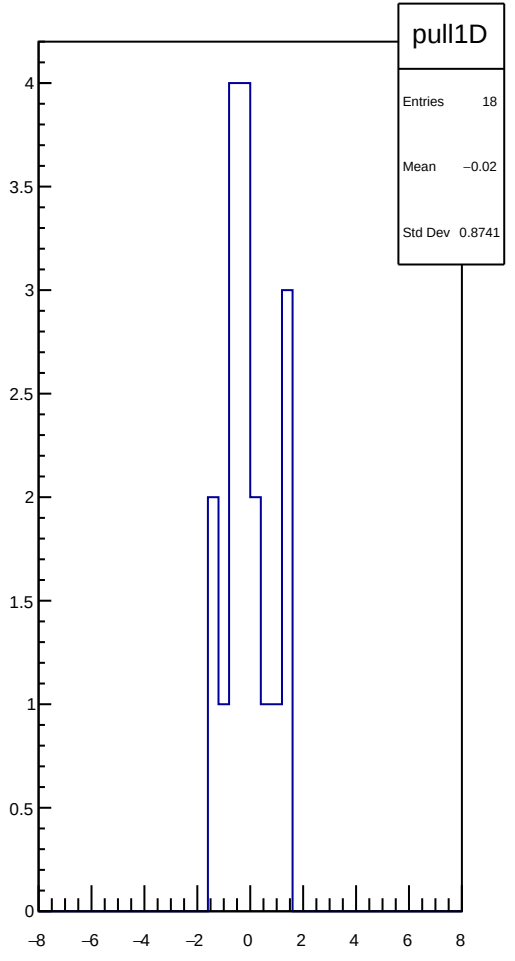

pull1D
Entries 18
Mean −0.004825
Std Dev 0.5777
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

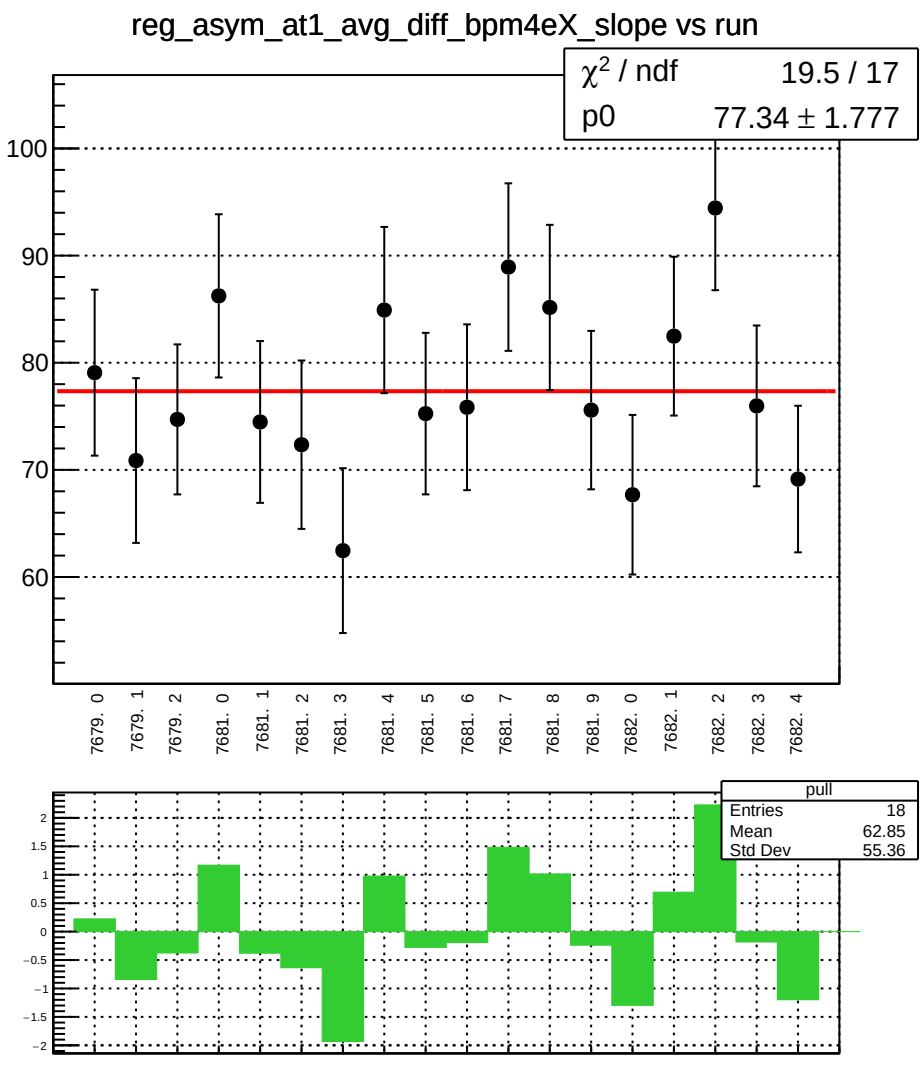

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 19.57 / 17
p0 −92.03 ± 2.193
−60
−70
−80
−90
−100
−110
−120
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

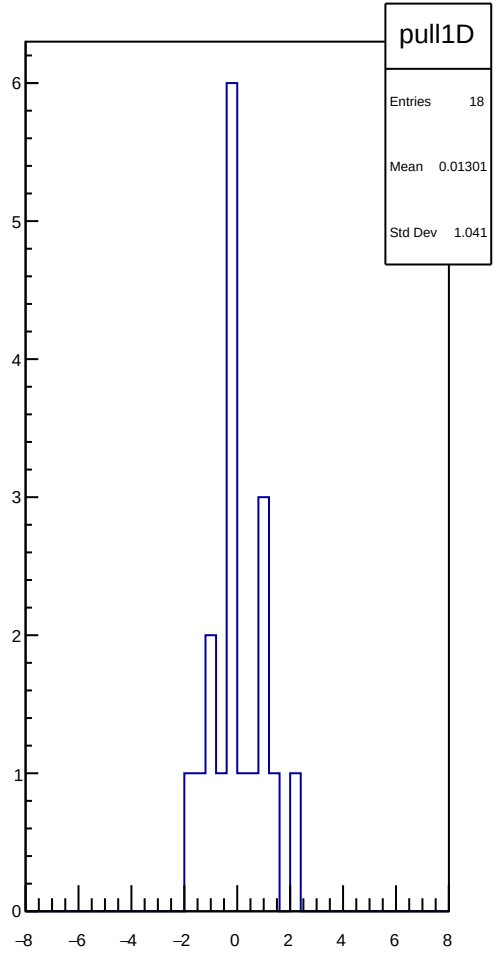

pull
Entries 18
Mean 54.67
Std Dev 47.13
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

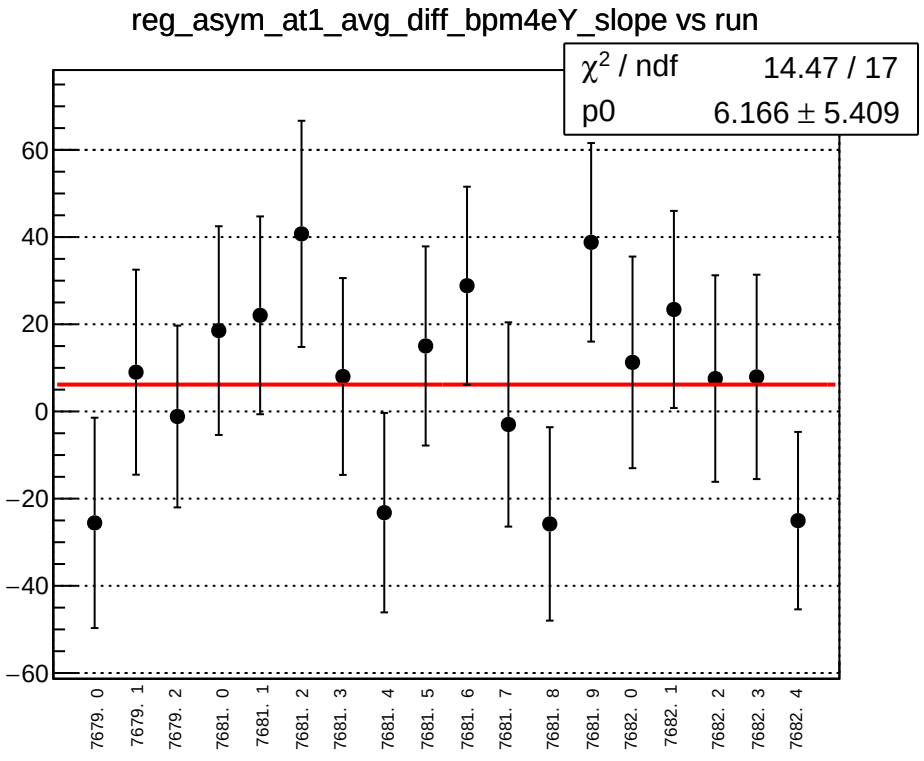

pull1D
Entries 18
Mean −0.01439
Std Dev 1.043
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

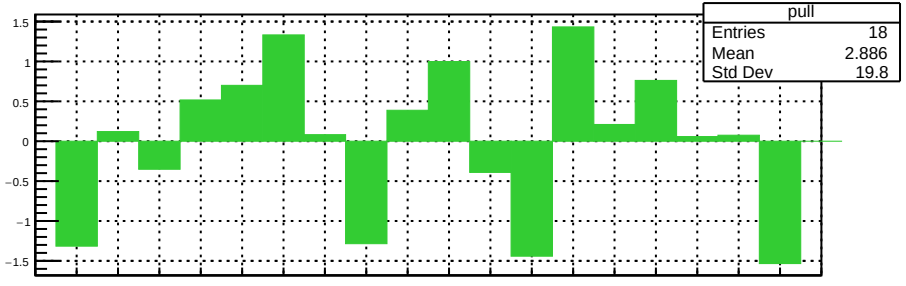

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 13.76 / 17
p0 2.37 ± 3.644
40
30
20
10
0
−10
−20
−30
−40
−50
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −11.85
Std Dev 27.61
1.5
1
0.5
0
−0.5
−1
−1.5

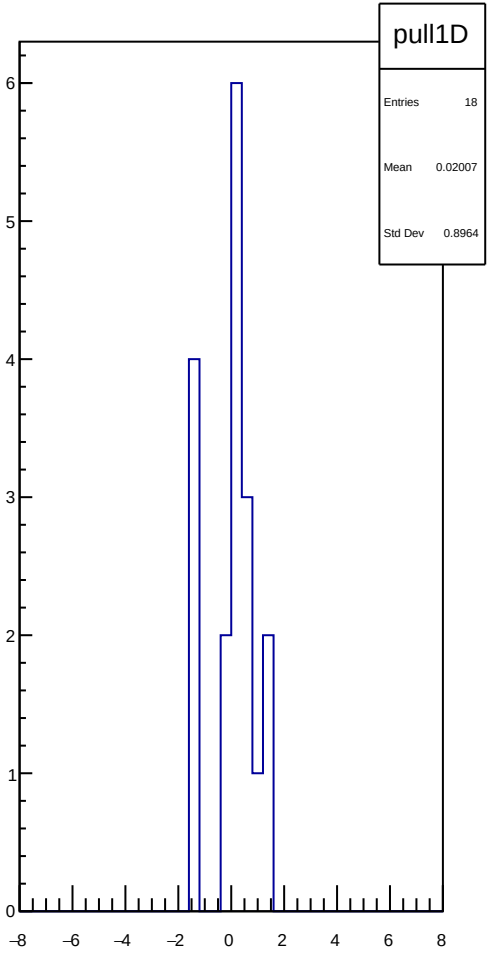

pull1D
Entries 18
Mean −0.02
Std Dev 0.8741
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

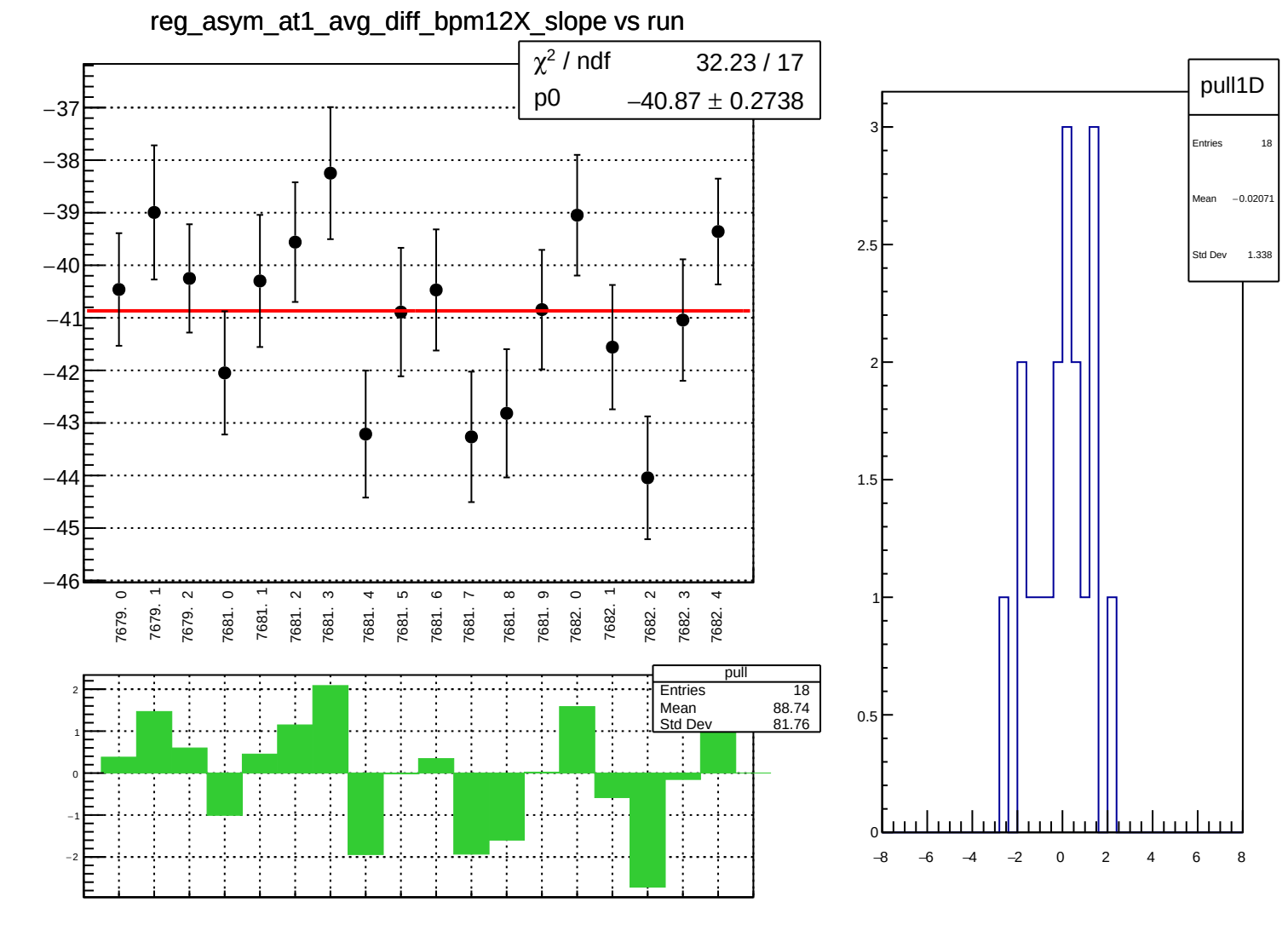

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 19.5 / 17
p0 77.34 ± 1.777
100
90
80
70
60
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 62.85
Std Dev 55.36
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

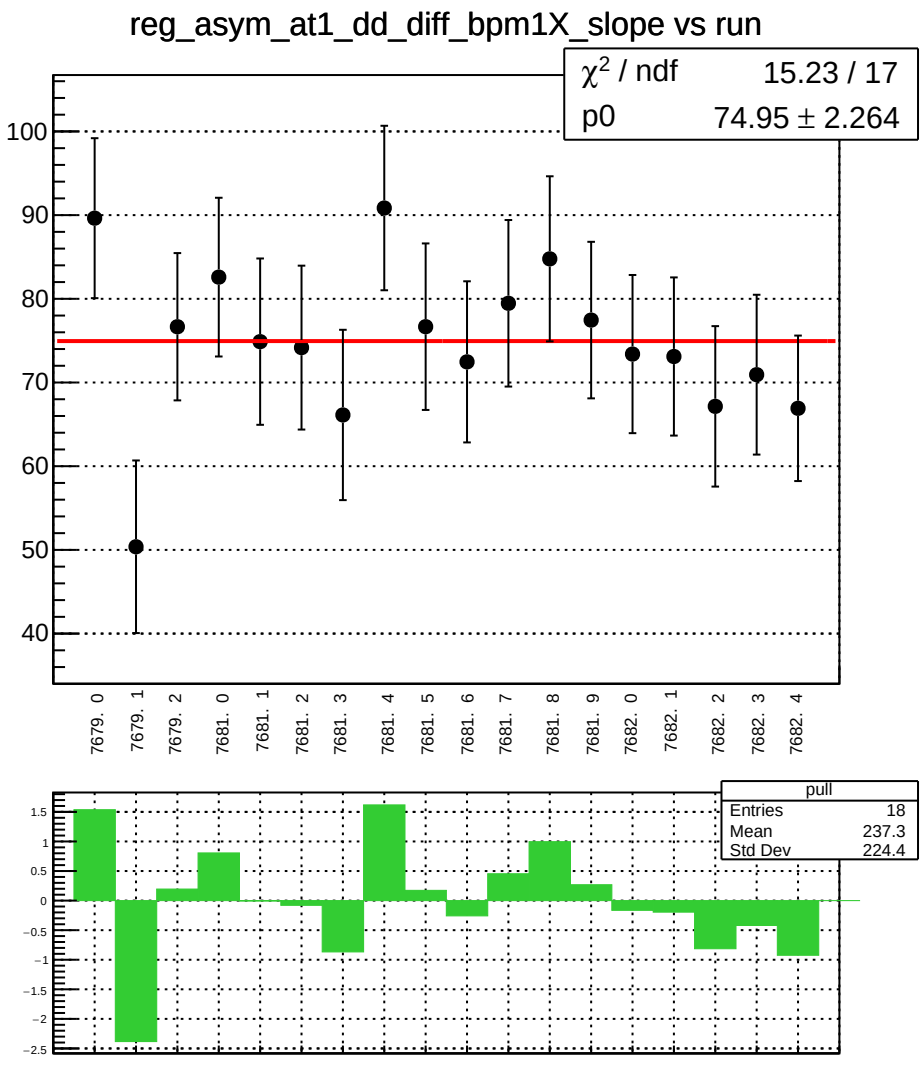

pull1D
Entries 18
Mean 0.01301
Std Dev 1.041
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

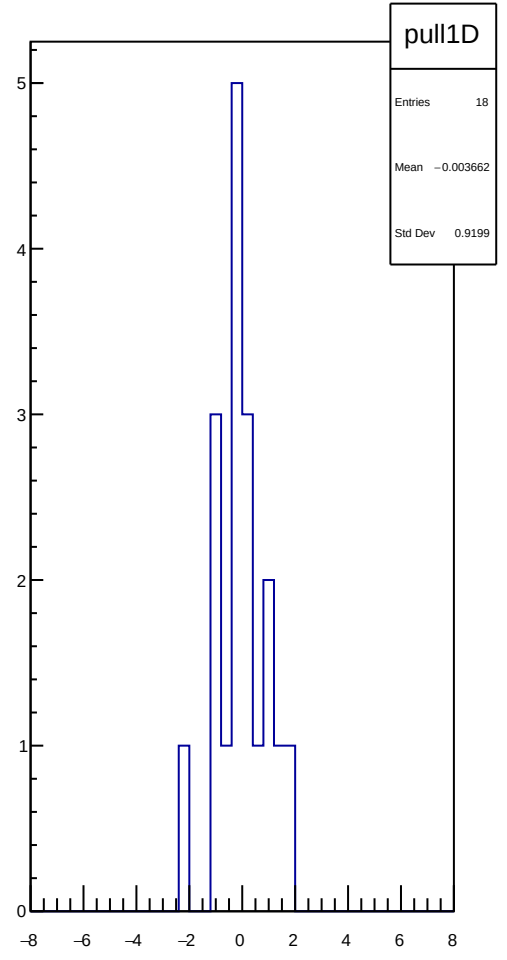

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 14.47 / 17
p0 6.166 ± 5.409
60
40
20
0
−20
−40
−60
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

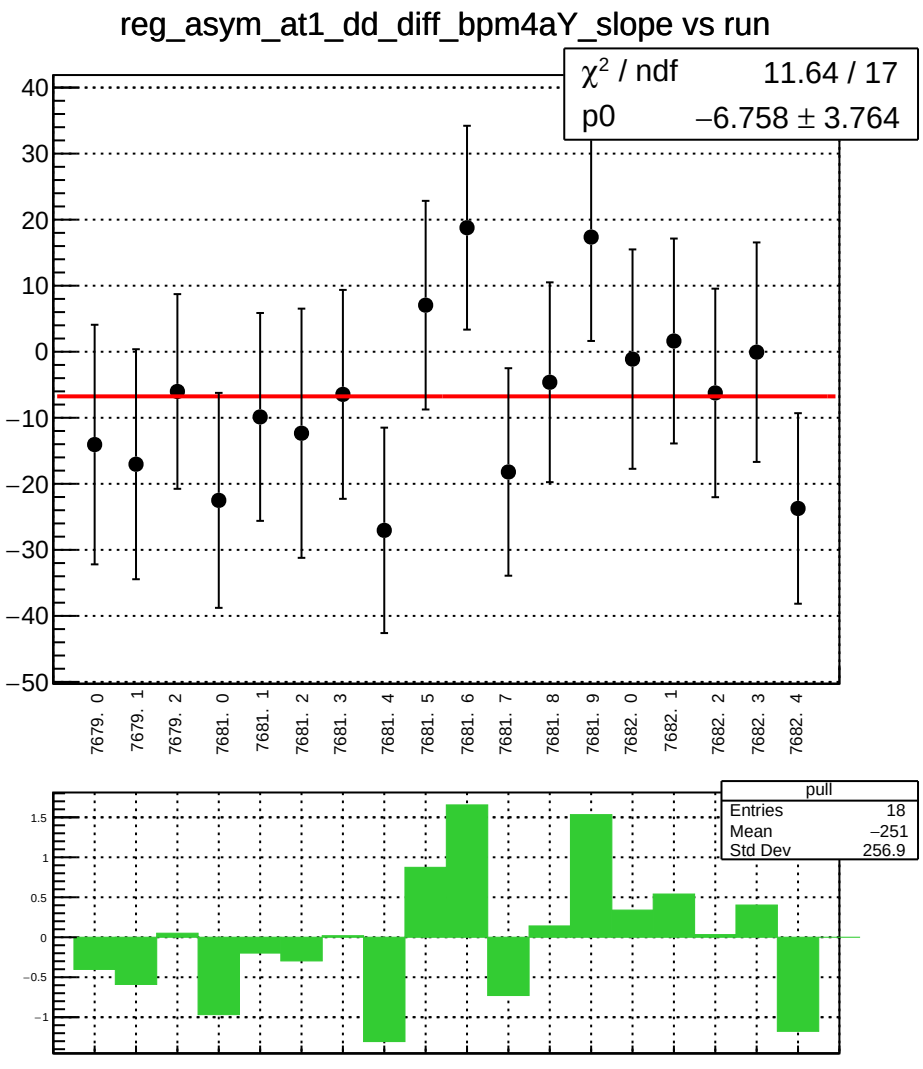

pull
Entries 18
Mean 2.886
Std Dev 19.8
1.5
1
0.5
0
−0.5
−1
−1.5

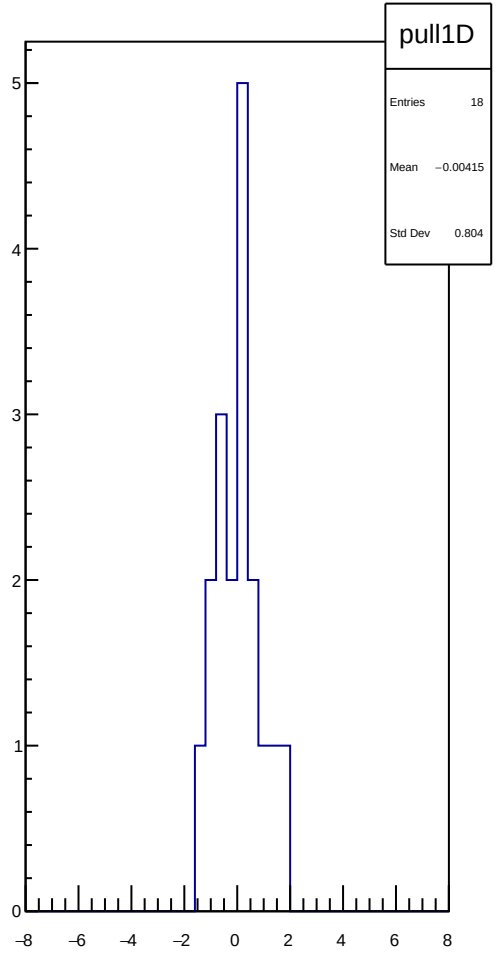

pull1D
Entries 18
Mean 0.02007
Std Dev 0.8964
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

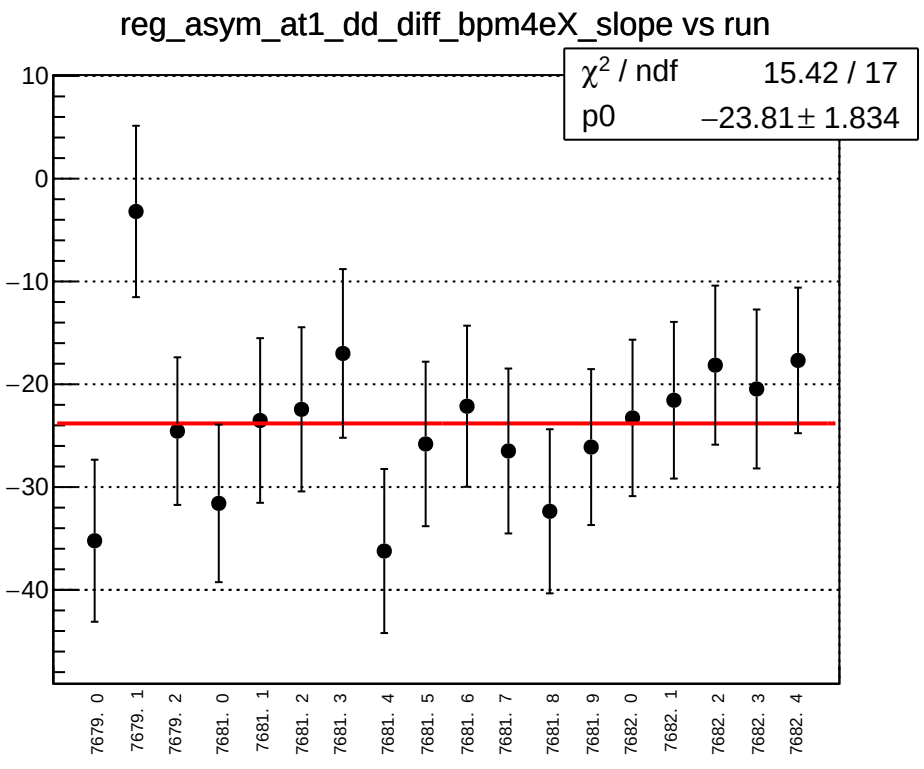

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 32.23 / 17
p0 −40.87 ± 0.2738
−37
−38
−39
−40
−41
−42
−43
−44
−45
−46
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 88.74
Std Dev 81.76
2
1
0
−1
−2
pull1D
Entries 18
Mean −0.02071
Std Dev 1.338
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

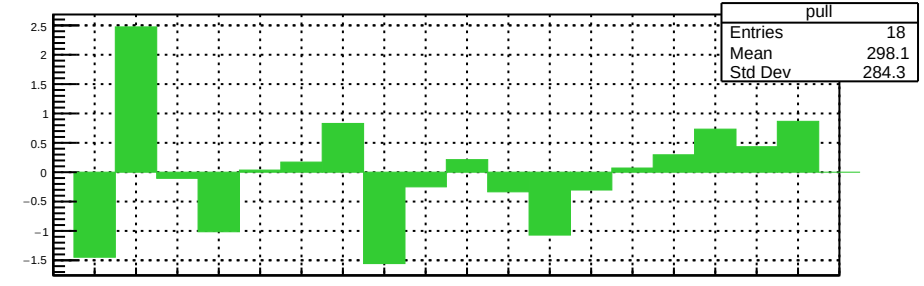

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ² / ndf 15.23 / 17
p0 74.95 ± 2.264
100
90
80
70
60
50
40
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 237.3
Std Dev 224.4
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

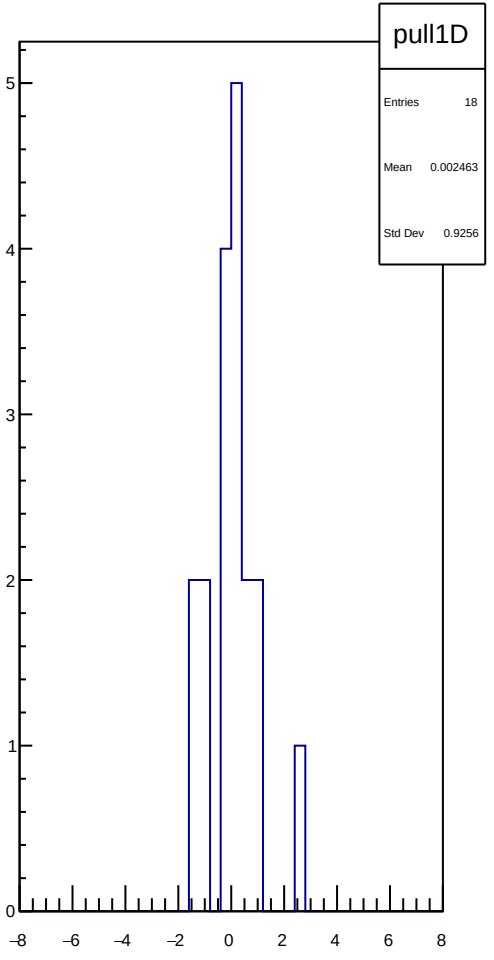

pull1D
Entries 18
Mean −0.003662
Std Dev 0.9199
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

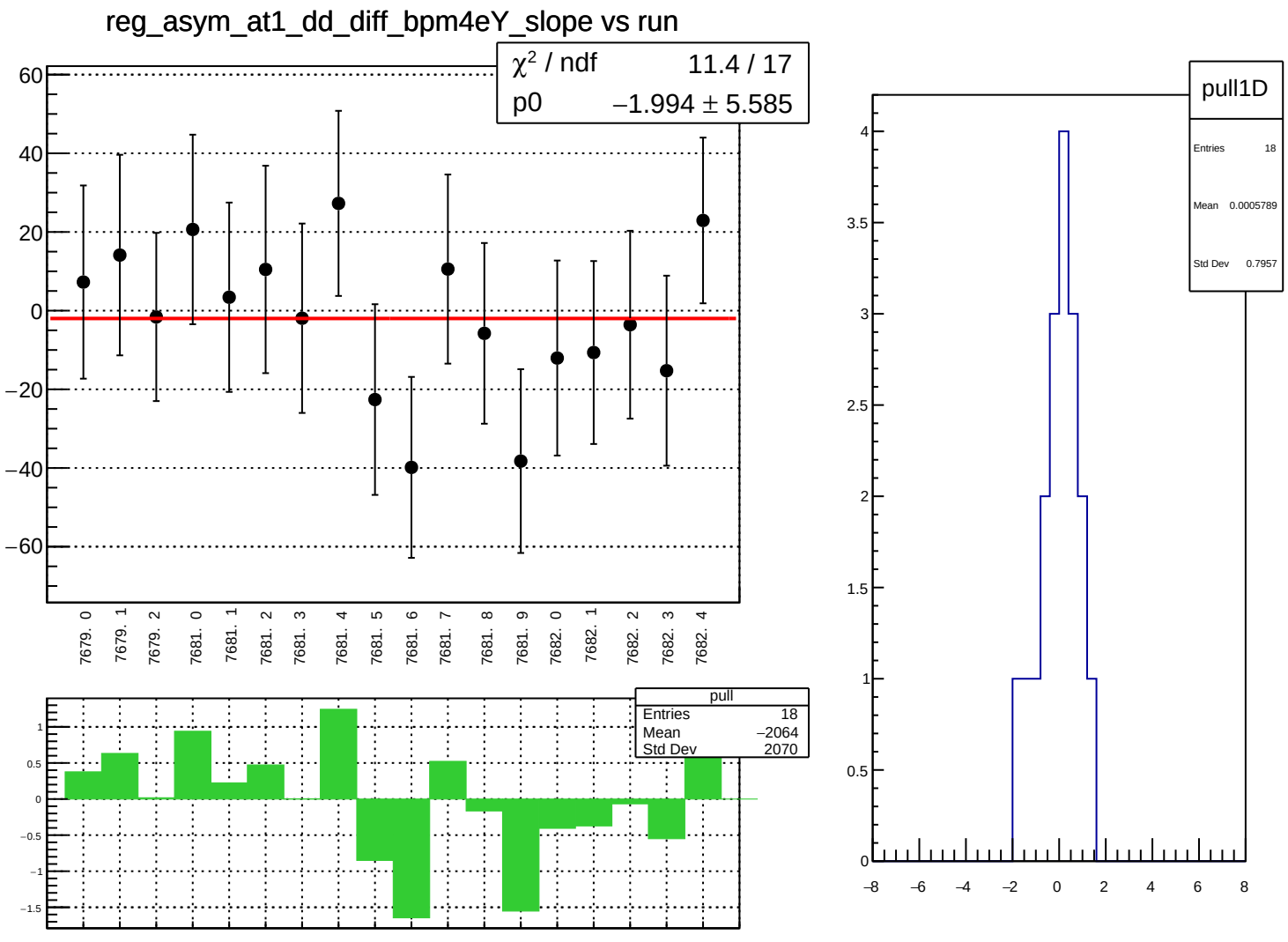

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.64 / 17
p0 −6.758 ± 3.764
40
30
20
10
0
−10
−20
−30
−40
−50
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −251
Std Dev 256.9
1.5
1
0.5
0
−0.5
−1

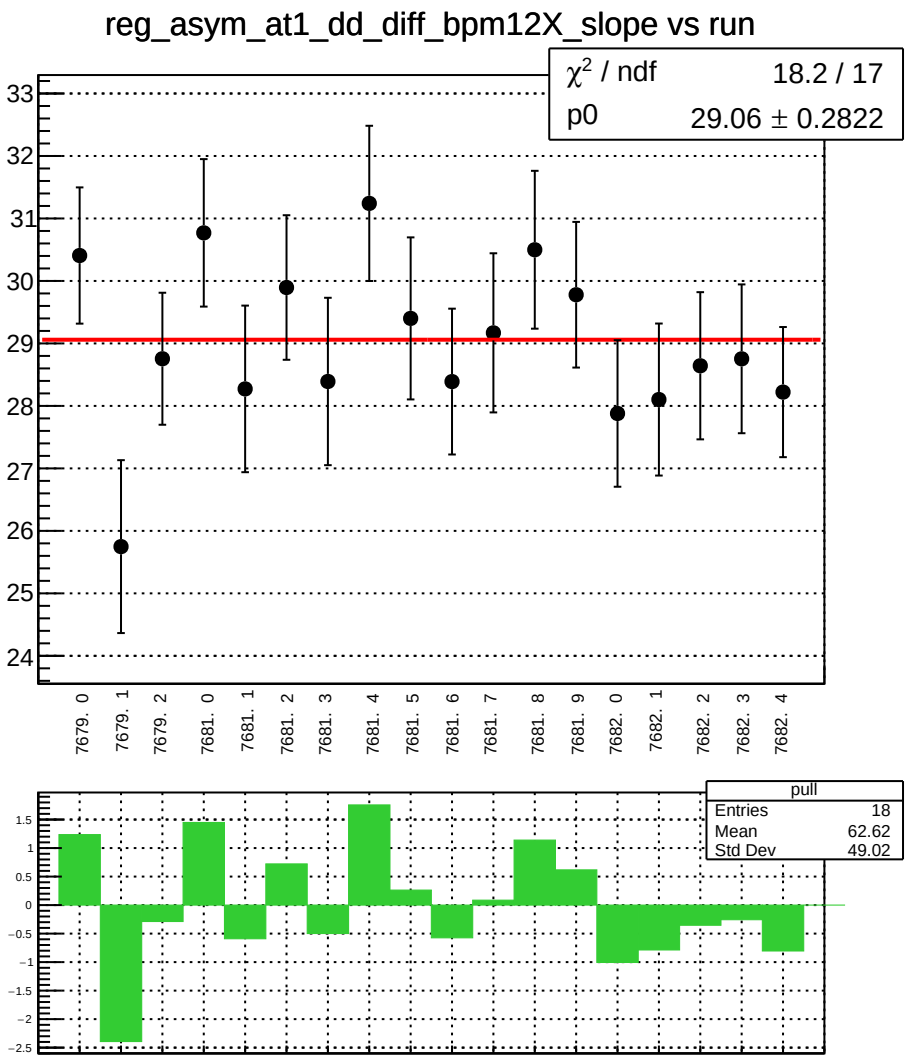

pull1D
Entries 18
Mean −0.00415
Std Dev 0.804
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

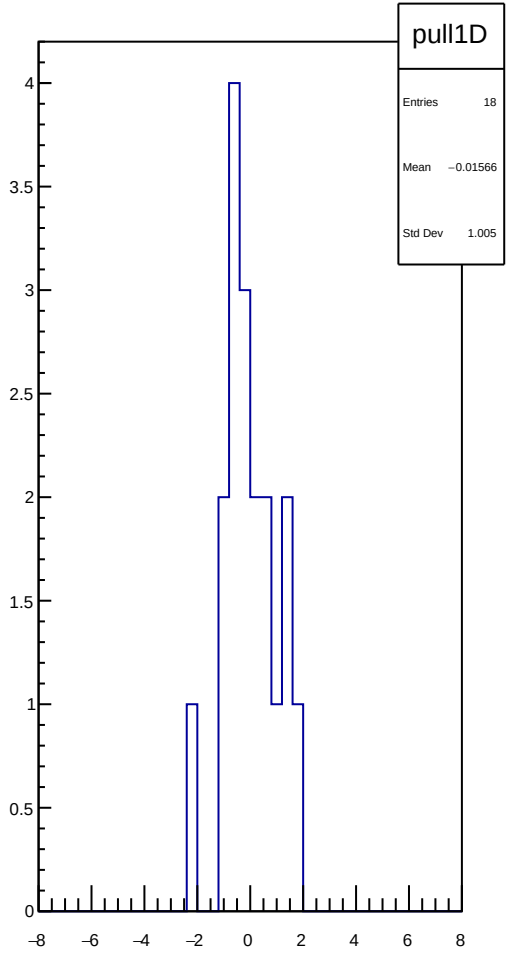

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 15.42 / 17
p0 −23.81± 1.834
10
0
−10
−20
−30
−40
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

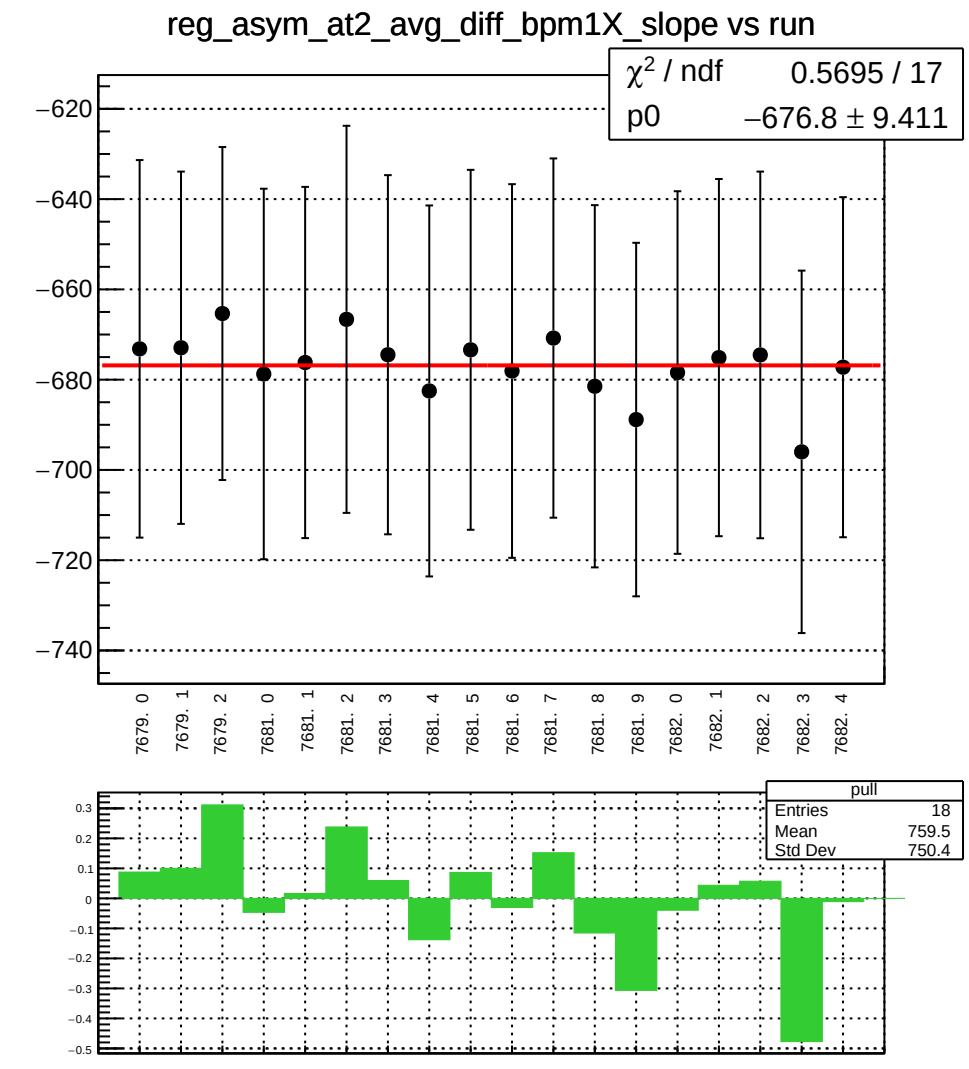

pull
Entries 18
Mean 298.1
Std Dev 284.3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

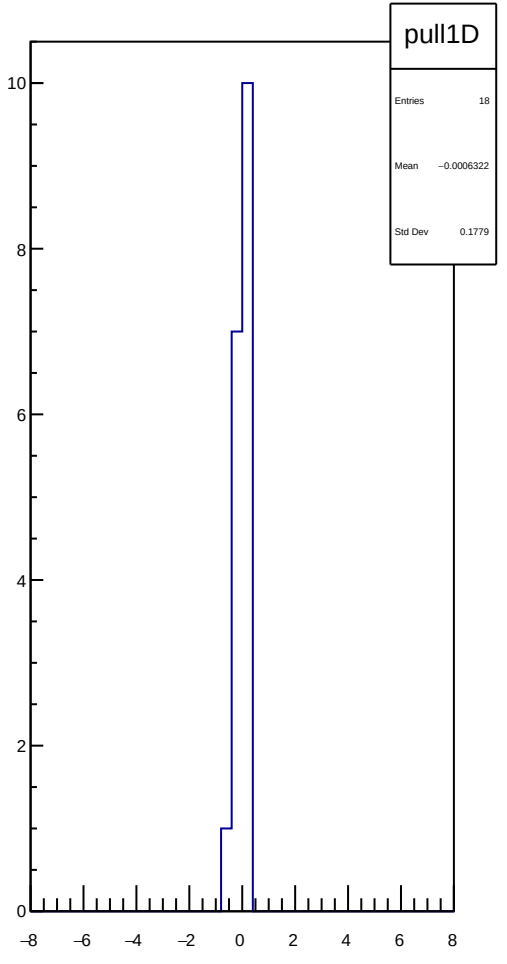

pull1D
Entries 18
Mean 0.002463
Std Dev 0.9256
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

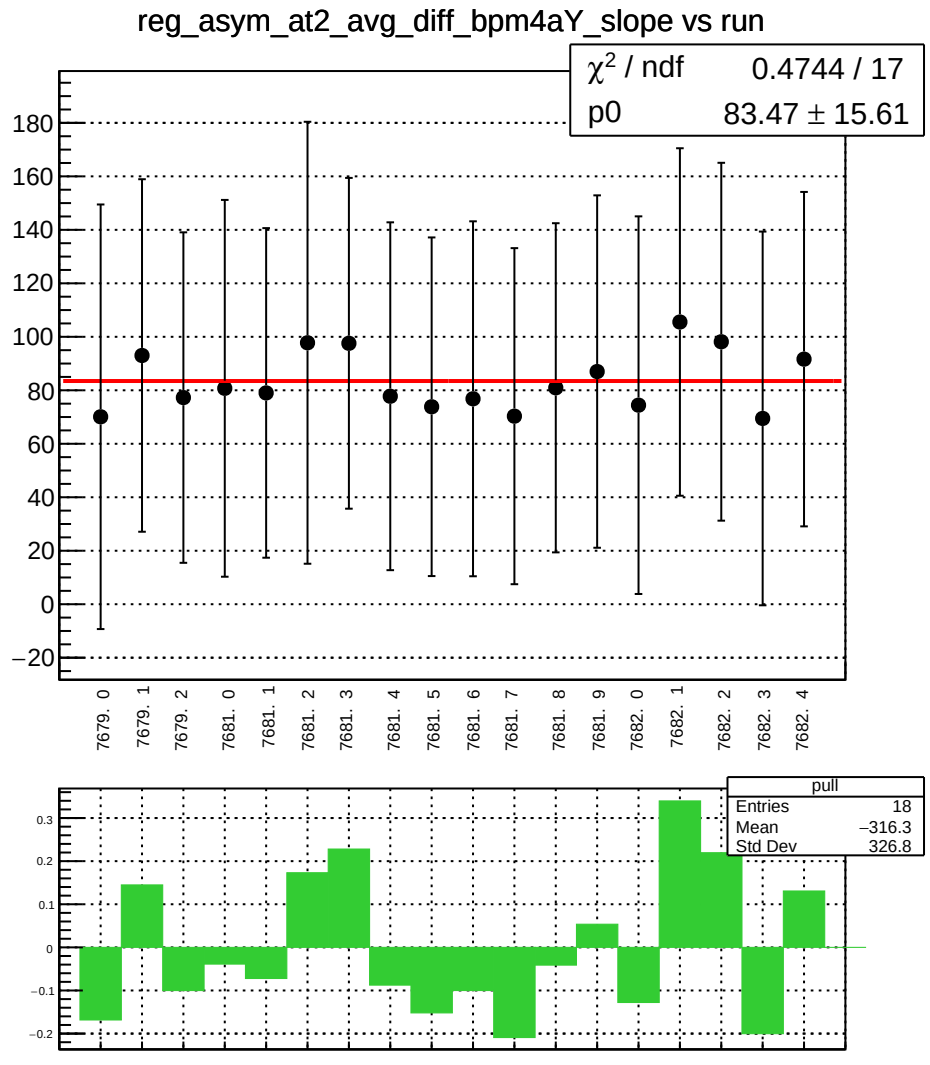

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.4 / 17
p0 −1.994 ± 5.585
60
40
20
0
−20
−40
−60
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −2064
Std Dev 2070
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 18
Mean 0.0005789
Std Dev 0.7957
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

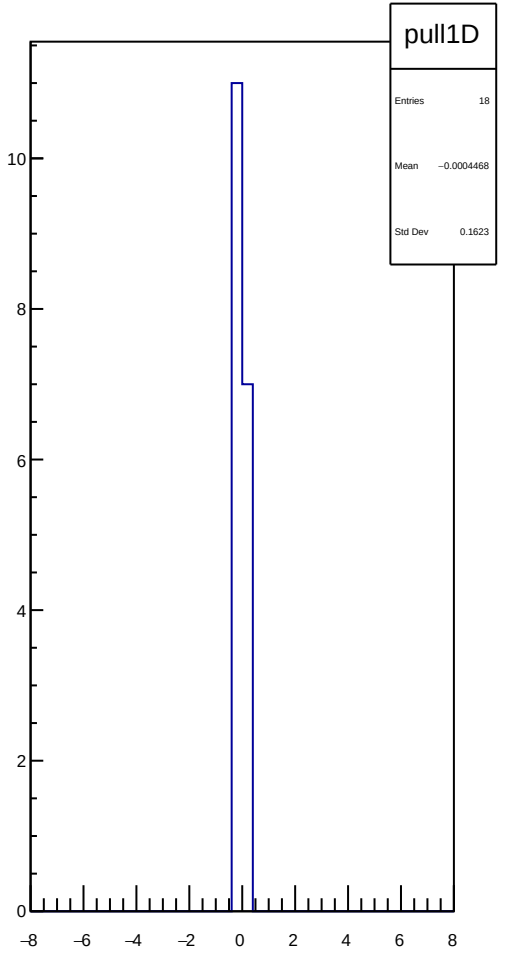

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 18.2 / 17
p0 29.06 ± 0.2822
33
32
31
30
29
28
27
26
25
24
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 62.62
Std Dev 49.02
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

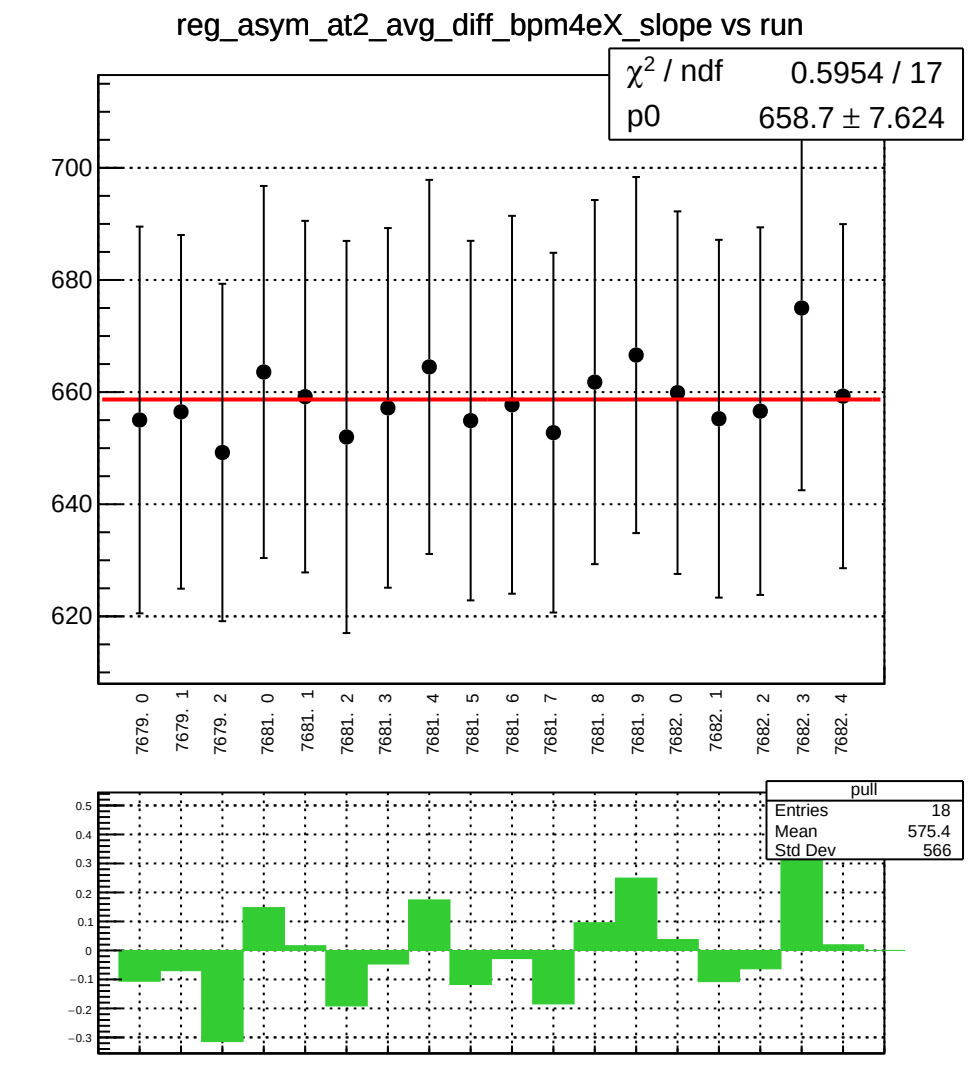

pull1D
Entries 18
Mean −0.01566
Std Dev 1.005
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

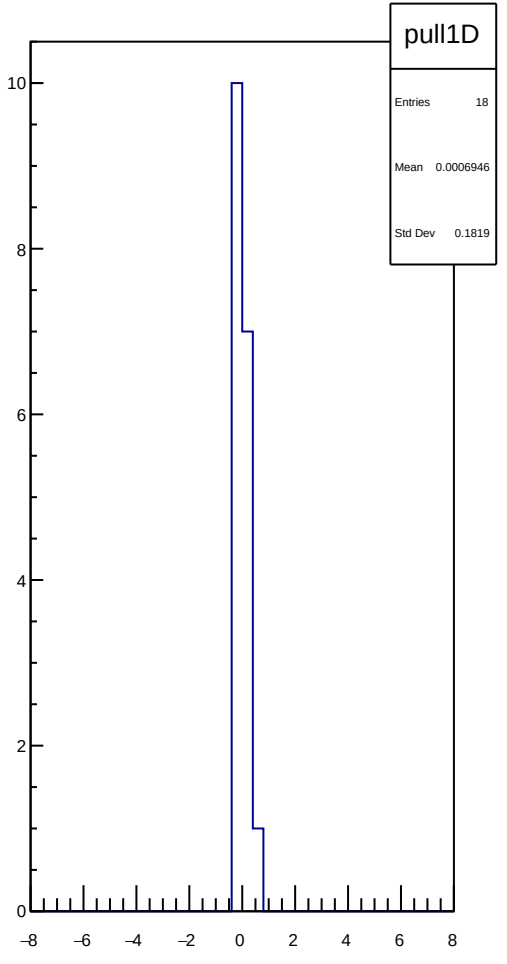

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 0.5695 / 17
p0 −676.8 ± 9.411
−620
−640
−660
−680
−700
−720
−740
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 759.5
Std Dev 750.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5

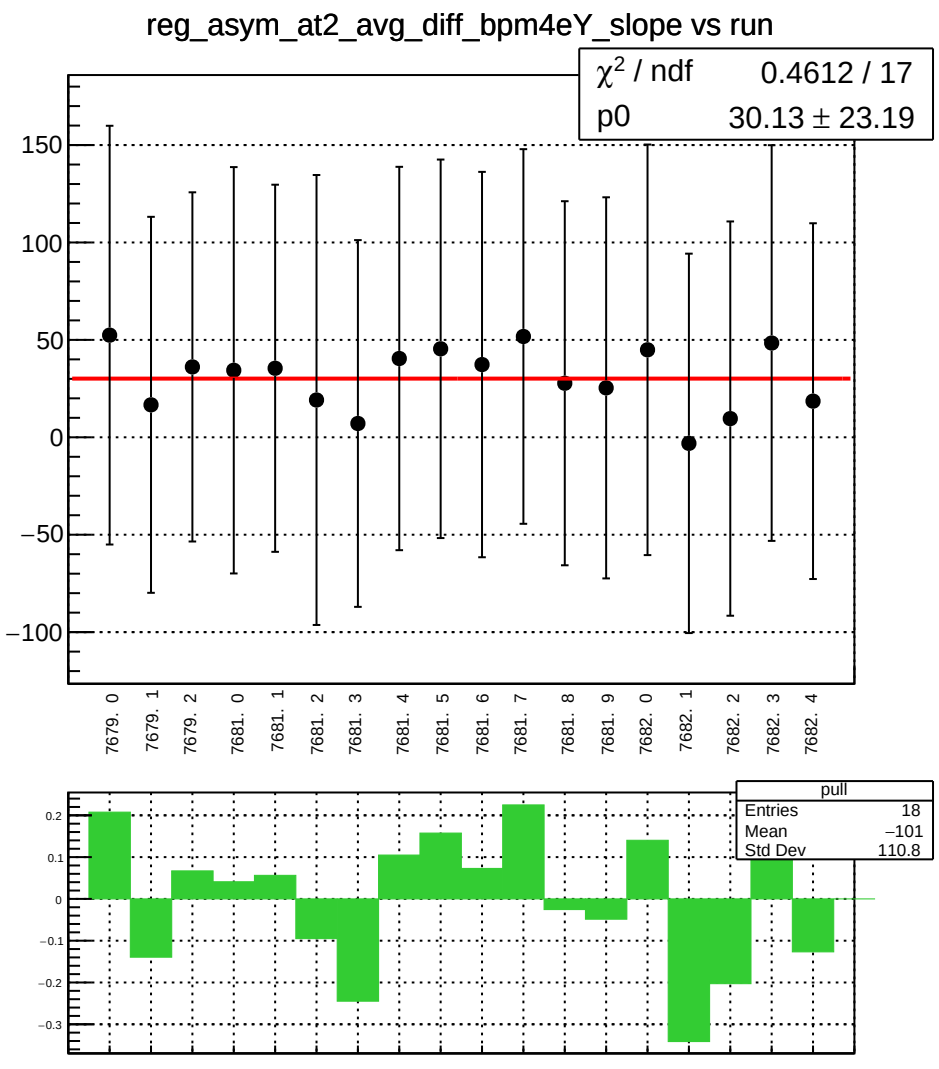

pull1D
Entries 18
Mean −0.0006322
Std Dev 0.1779
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

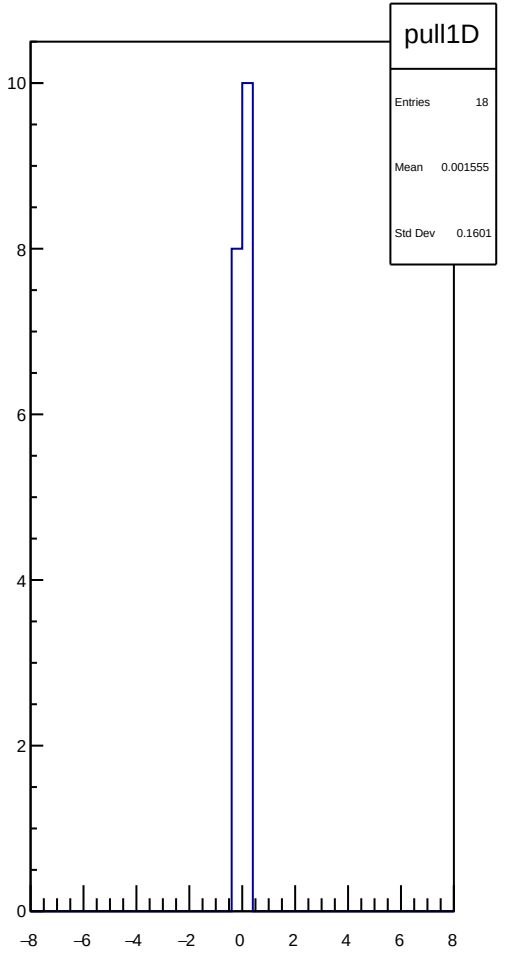

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.4744 / 17
p0 83.47 ± 15.61
180
160
140
120
100
80
60
40
20
0
−20
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −316.3
Std Dev 326.8
0.3
0.2
0.1
0
−0.1
−0.2

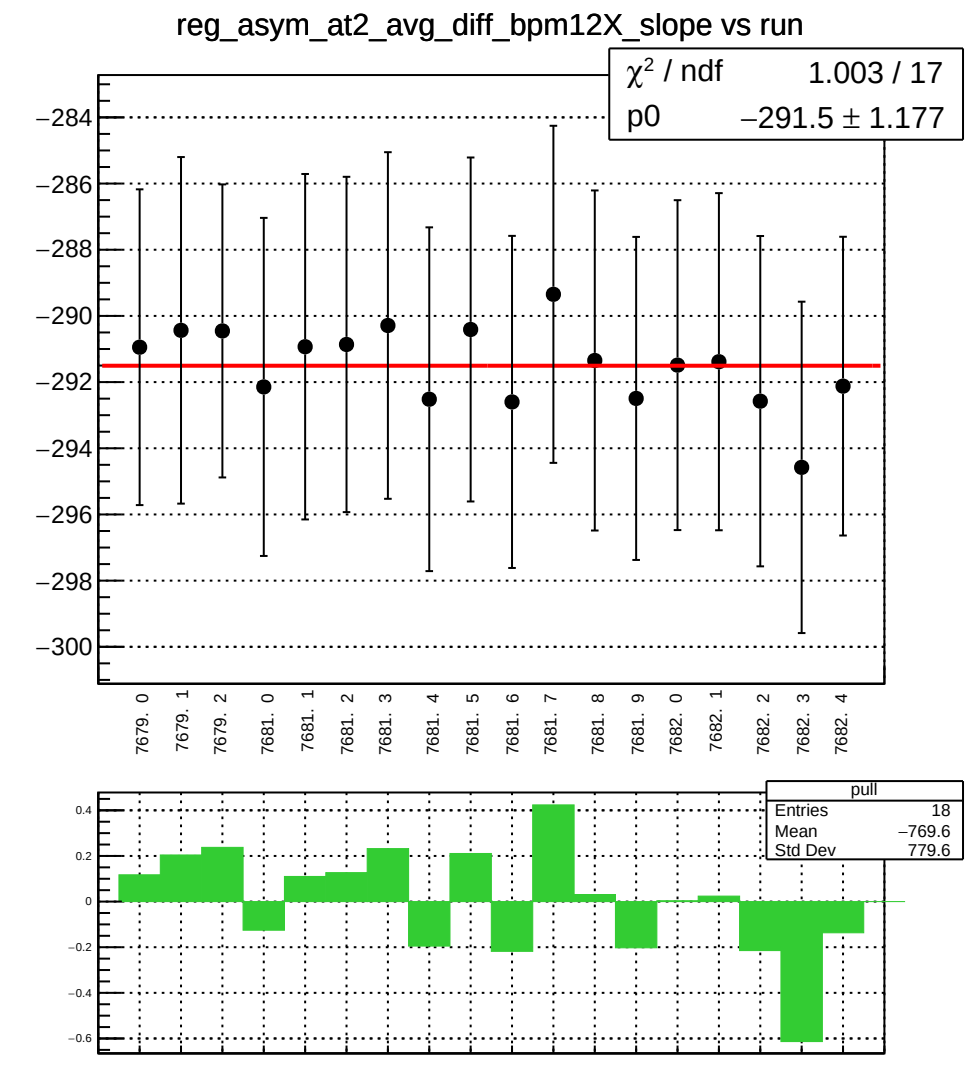

pull1D
Entries 18
Mean −0.0004468
Std Dev 0.1623
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

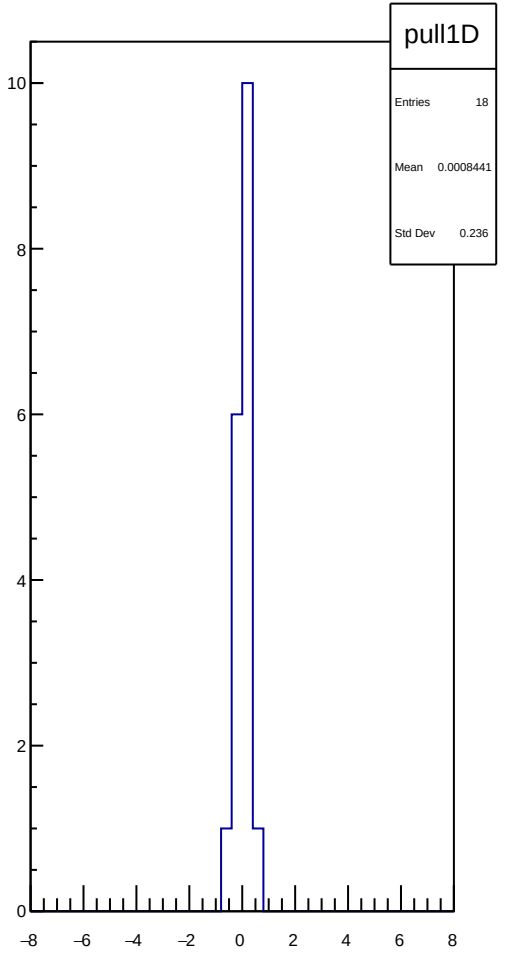

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 0.5954 / 17
p0 658.7 ± 7.624
700
680
660
640
620
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 575.4
Std Dev 566
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

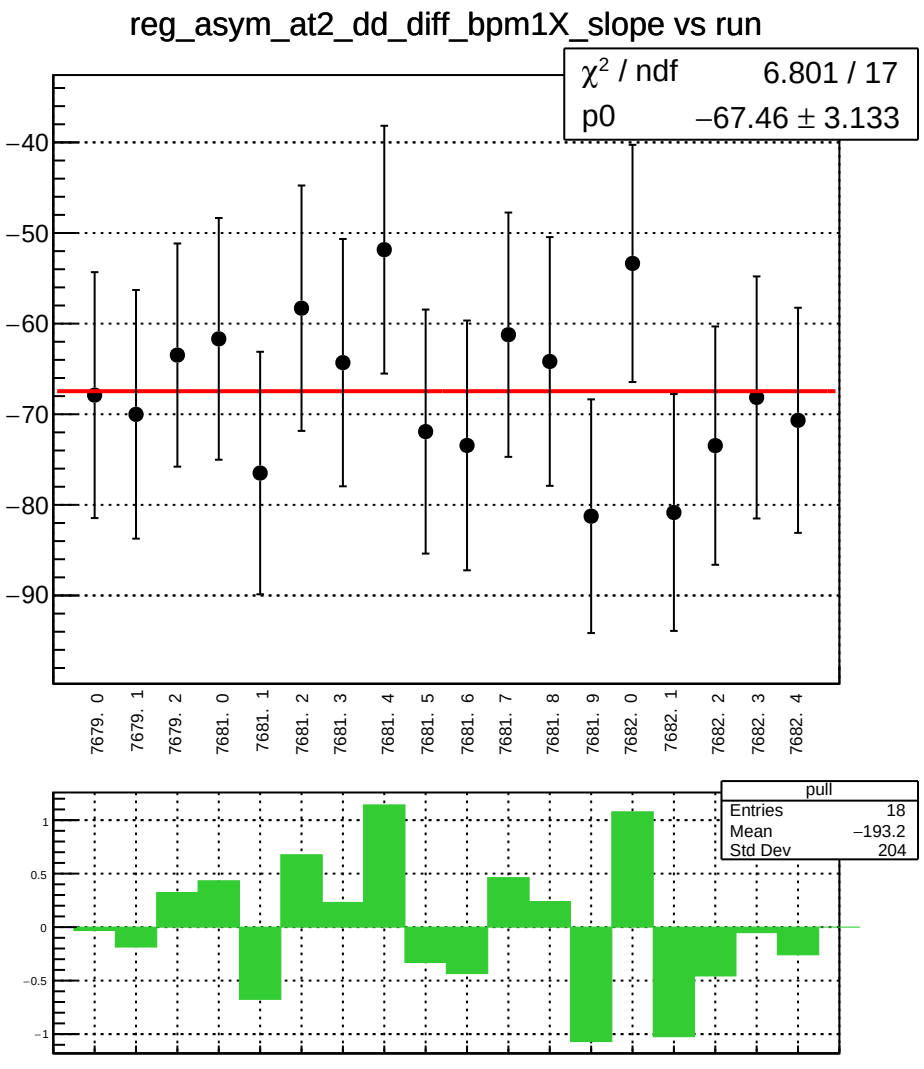

pull1D
Entries 18
Mean 0.0006946
Std Dev 0.1819
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

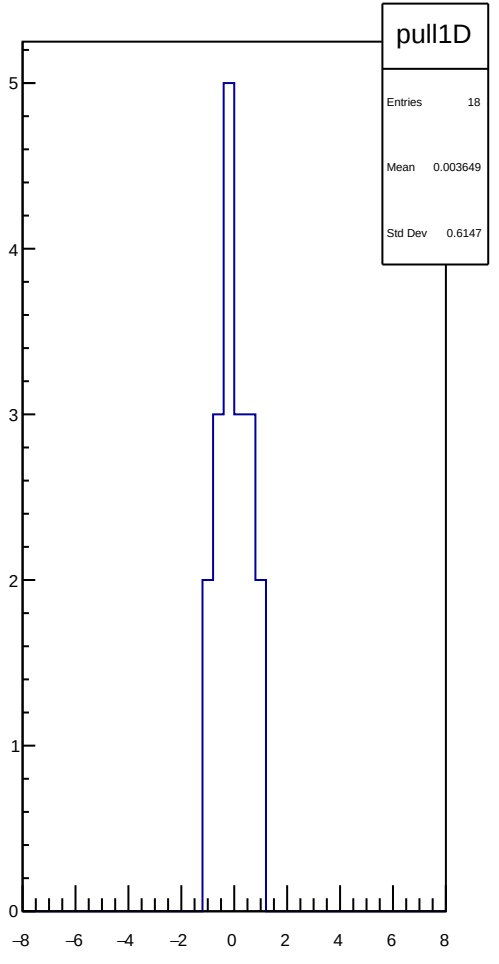

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.4612 / 17
p0 30.13 ± 23.19
150
100
50
0
−50
−100
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −101
Std Dev 110.8
0.2
0.1
0
−0.1
−0.2
−0.3

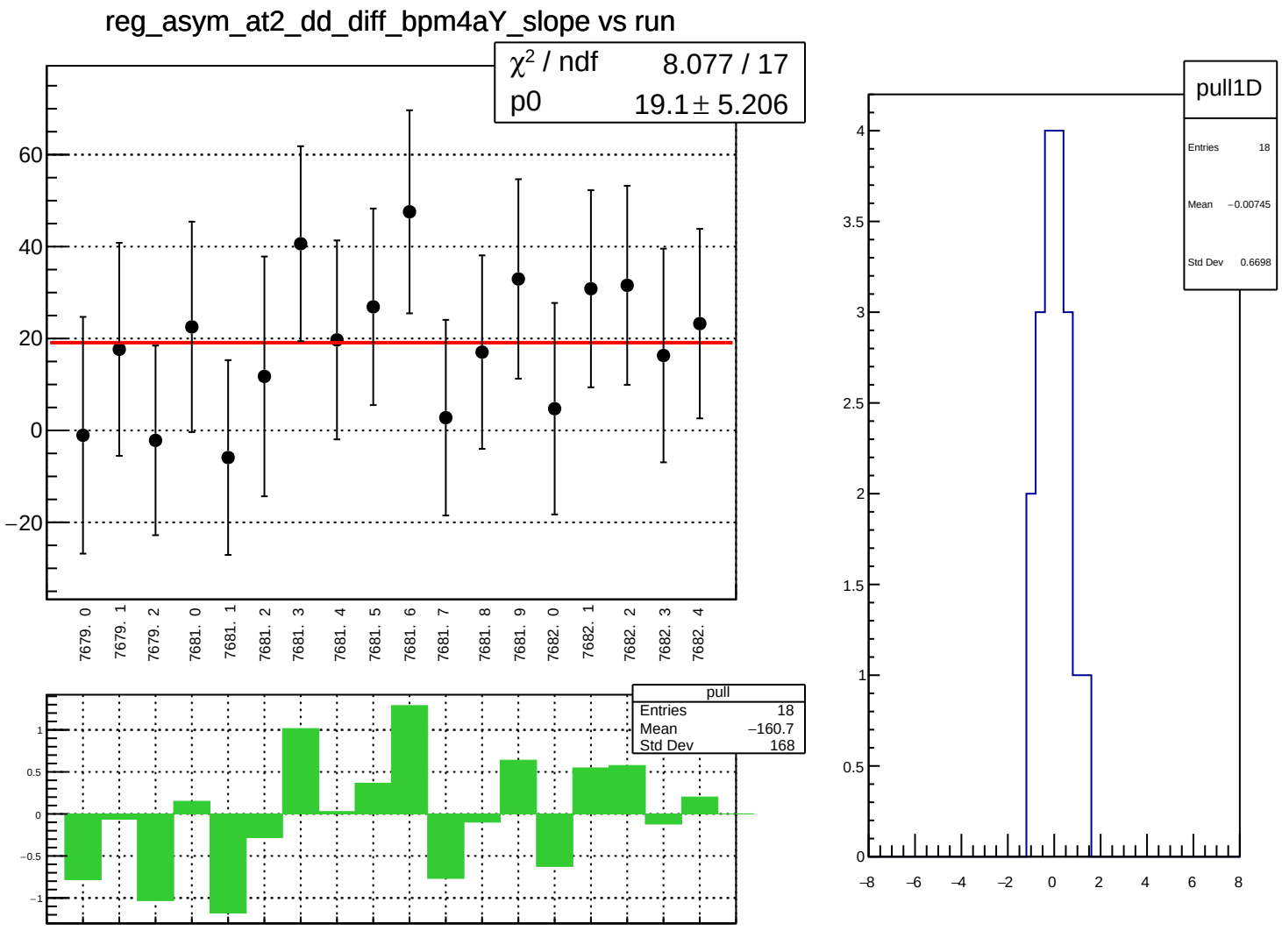

pull1D
Entries 18
Mean 0.001555
Std Dev 0.1601
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

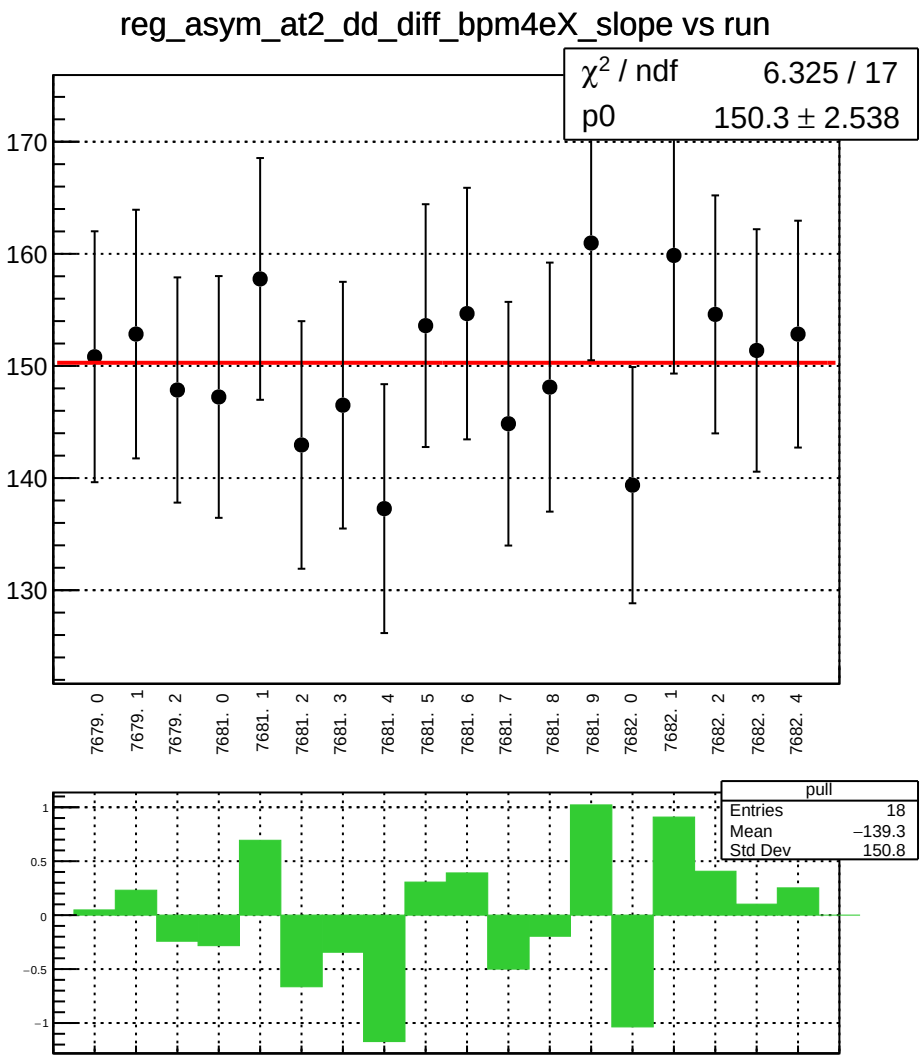

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 1.003 / 17
p0 −291.5 ± 1.177
−284
−286
−288
−290
−292
−294
−296
−298
−300
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −769.6
Std Dev 779.6
0.4
0.2
0
−0.2
−0.4
−0.6

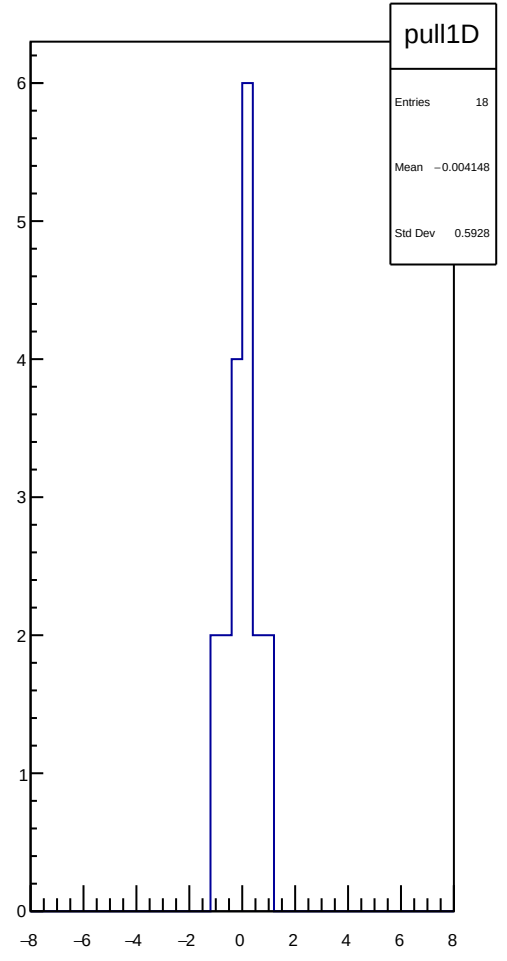

pull1D
Entries 18
Mean 0.0008441
Std Dev 0.236
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

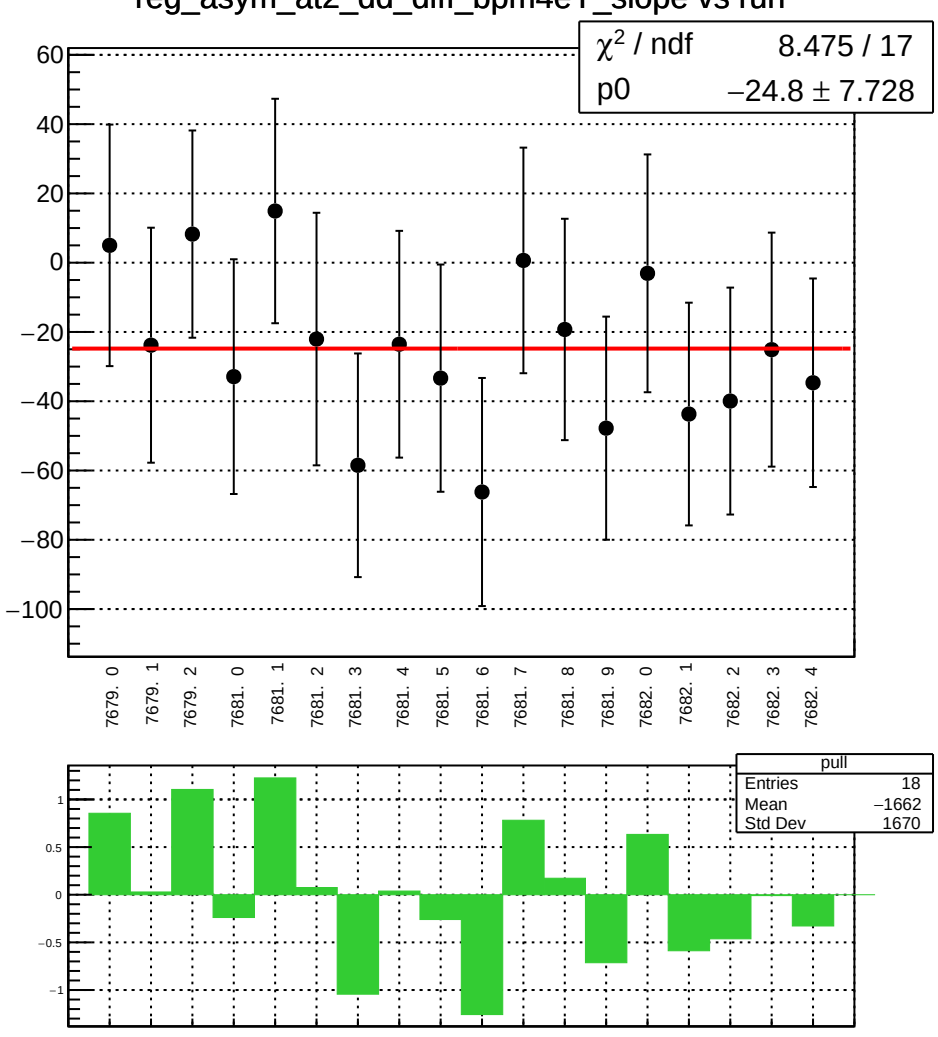

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 6.801 / 17
p0 −67.46 ± 3.133
−40
−50
−60
−70
−80
−90
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −193.2
Std Dev 204
1
0.5
0
−0.5
−1

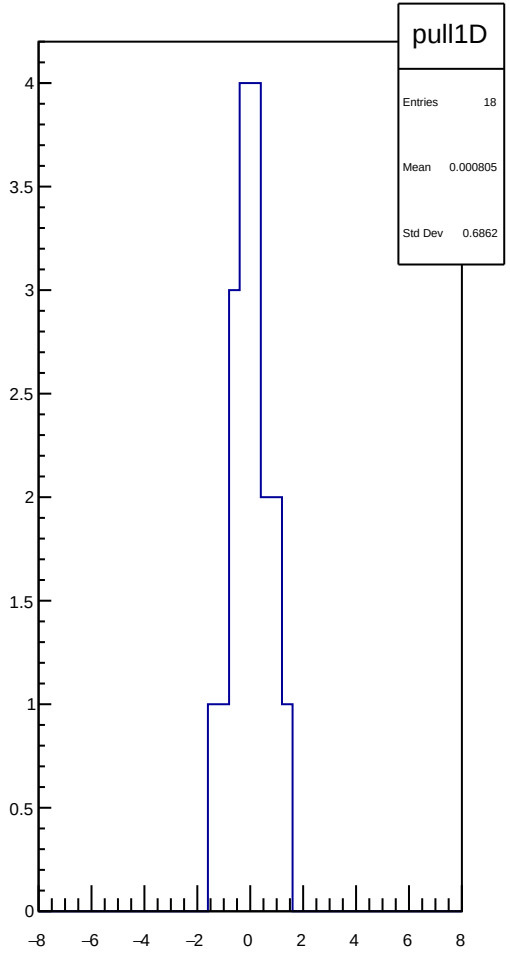

pull1D
Entries 18
Mean 0.003649
Std Dev 0.6147
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

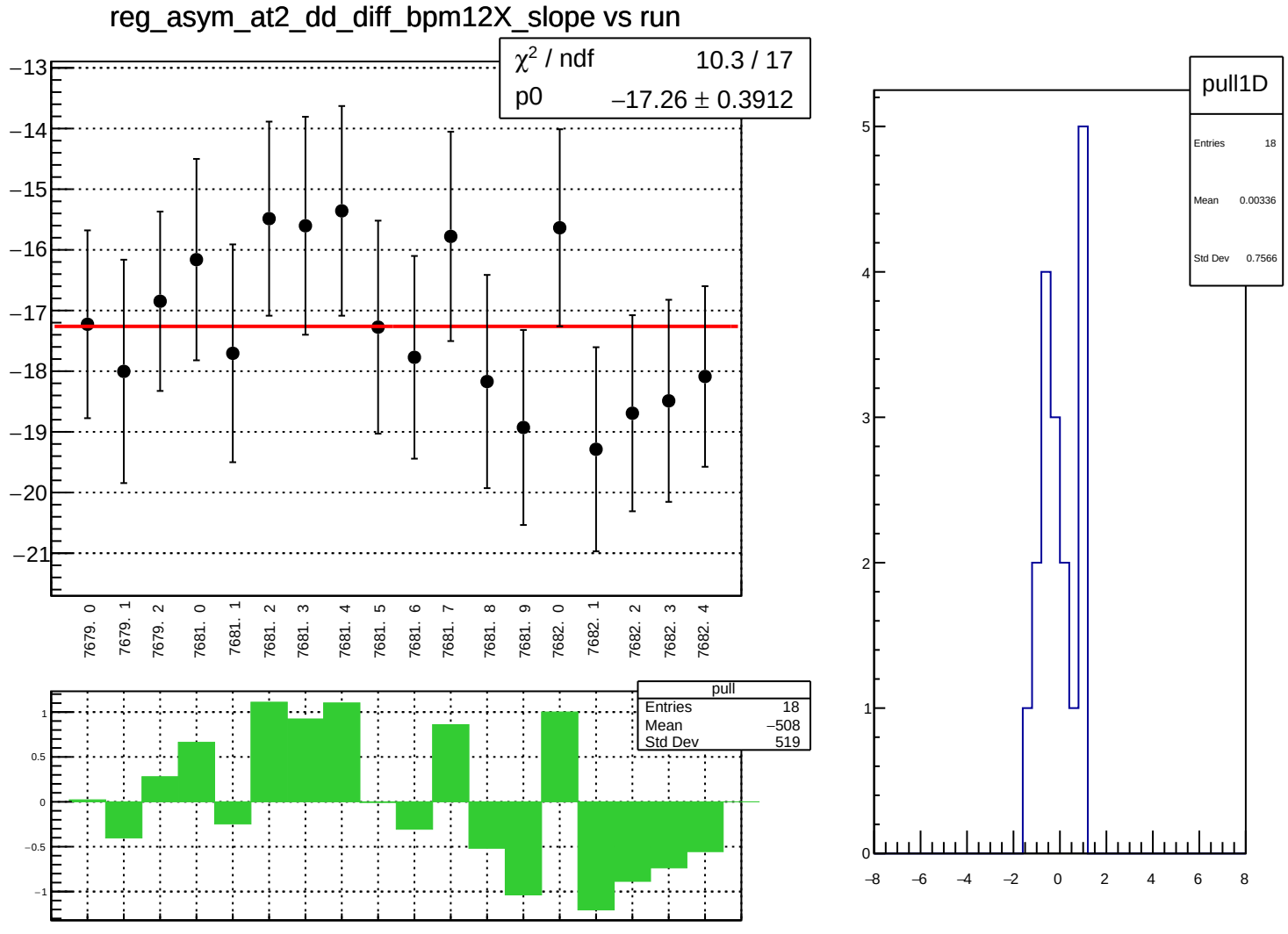

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.077 / 17
p0 19.1 ± 5.206
60
40
20
0
−20
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −160.7
Std Dev 168
1
0.5
0
−0.5
−1
pull1D
Entries 18
Mean −0.00745
Std Dev 0.6698
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

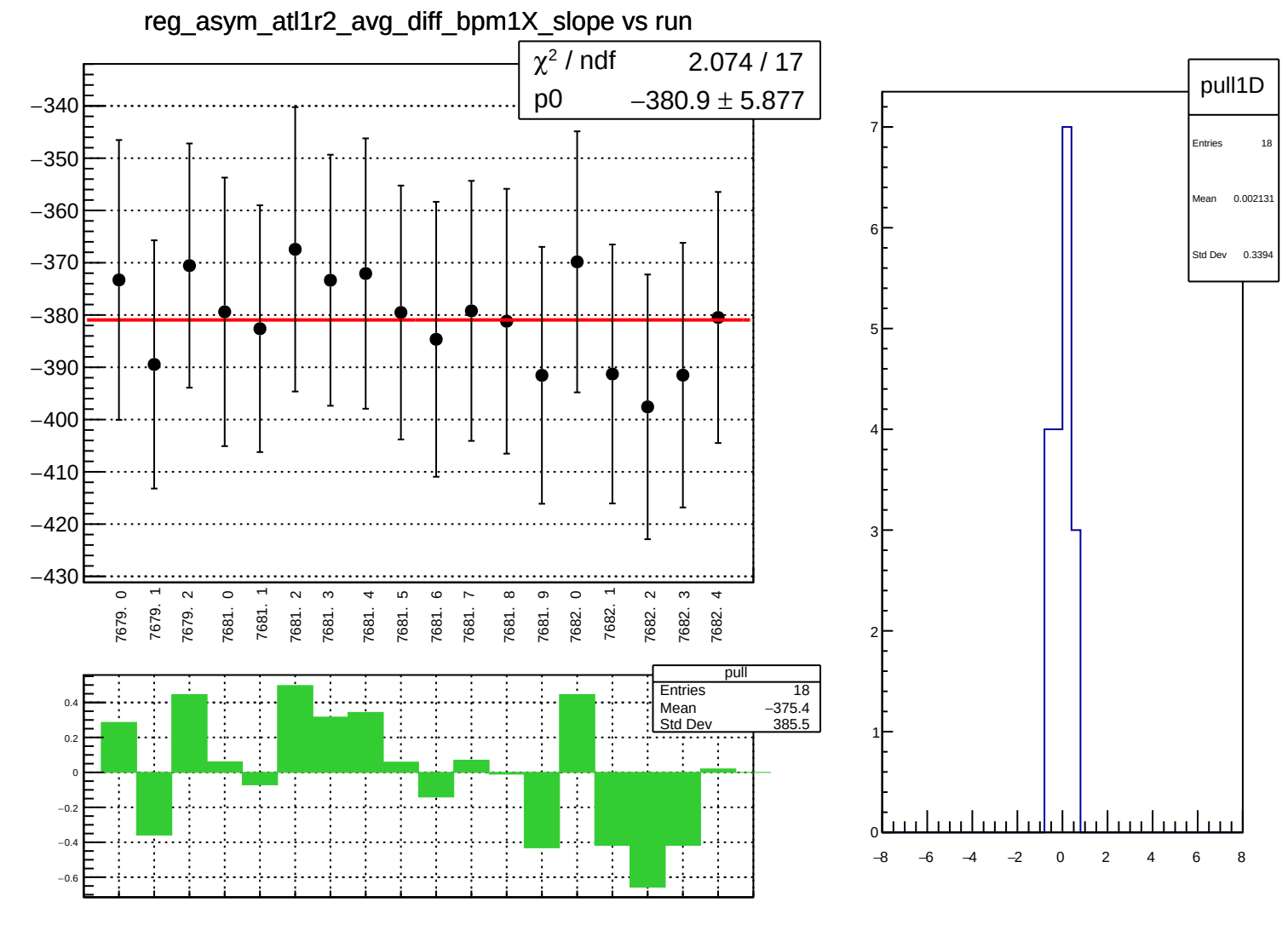

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.325 / 17
p0 150.3 ± 2.538
170
160
150
140
130
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −139.3
Std Dev 150.8
1
0.5
0
−0.5
−1

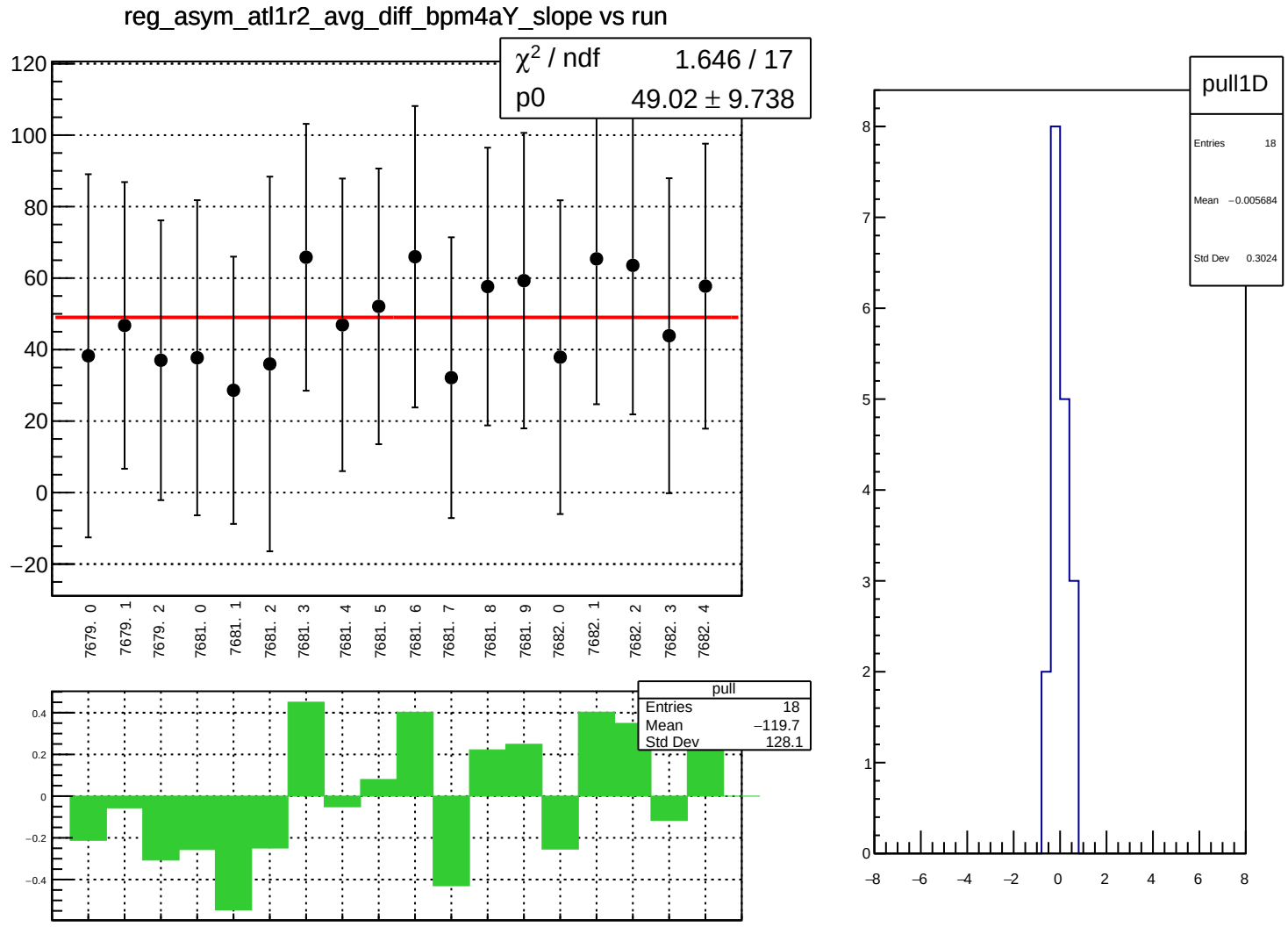

pull1D
Entries 18
Mean −0.004148
Std Dev 0.5928
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

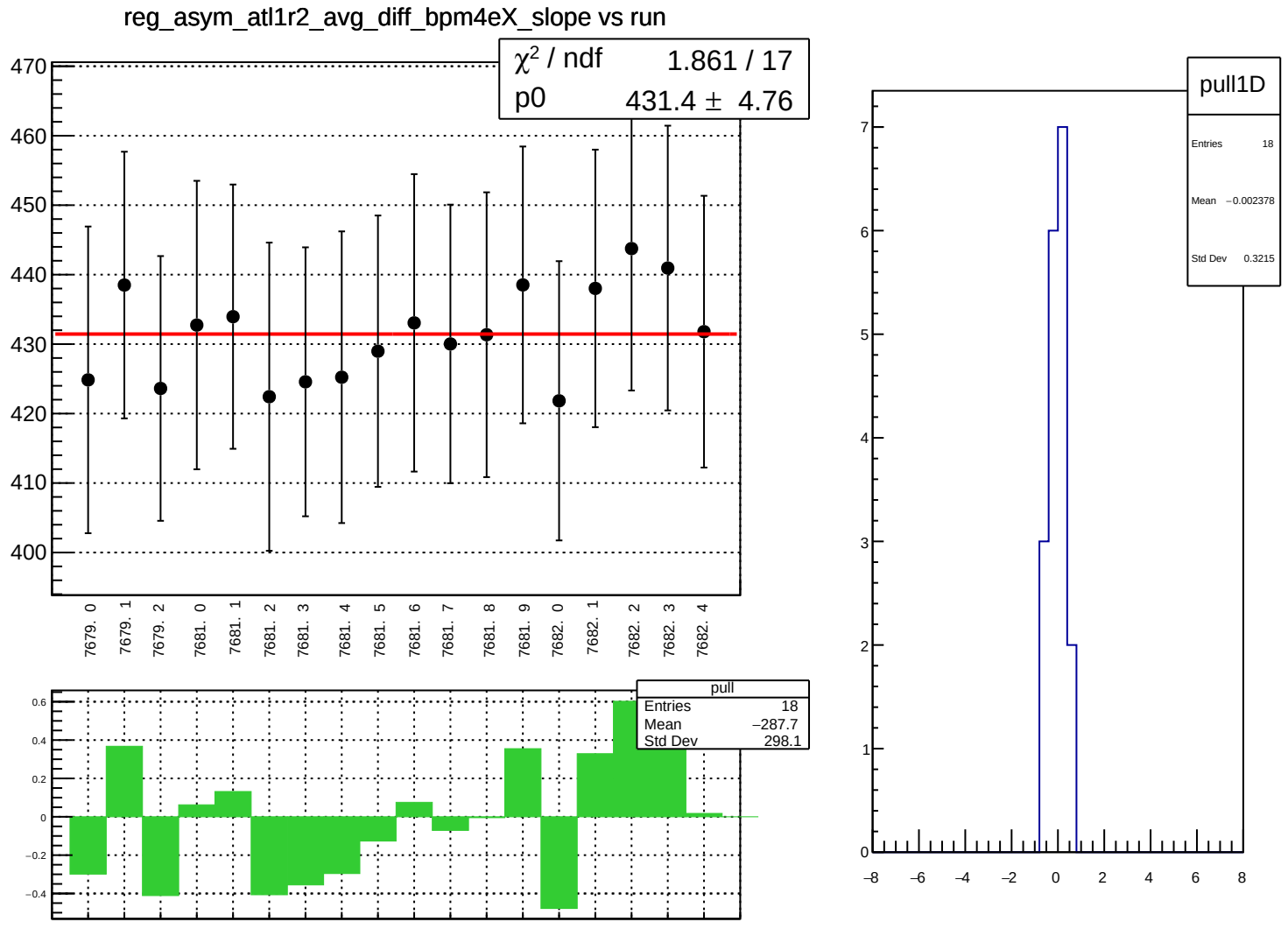

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.475 / 17
p0 −24.8 ± 7.728
60
40
20
0
−20
−40
−60
−80
−100
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −1662
Std Dev 1670
1
0.5
0
−0.5
−1

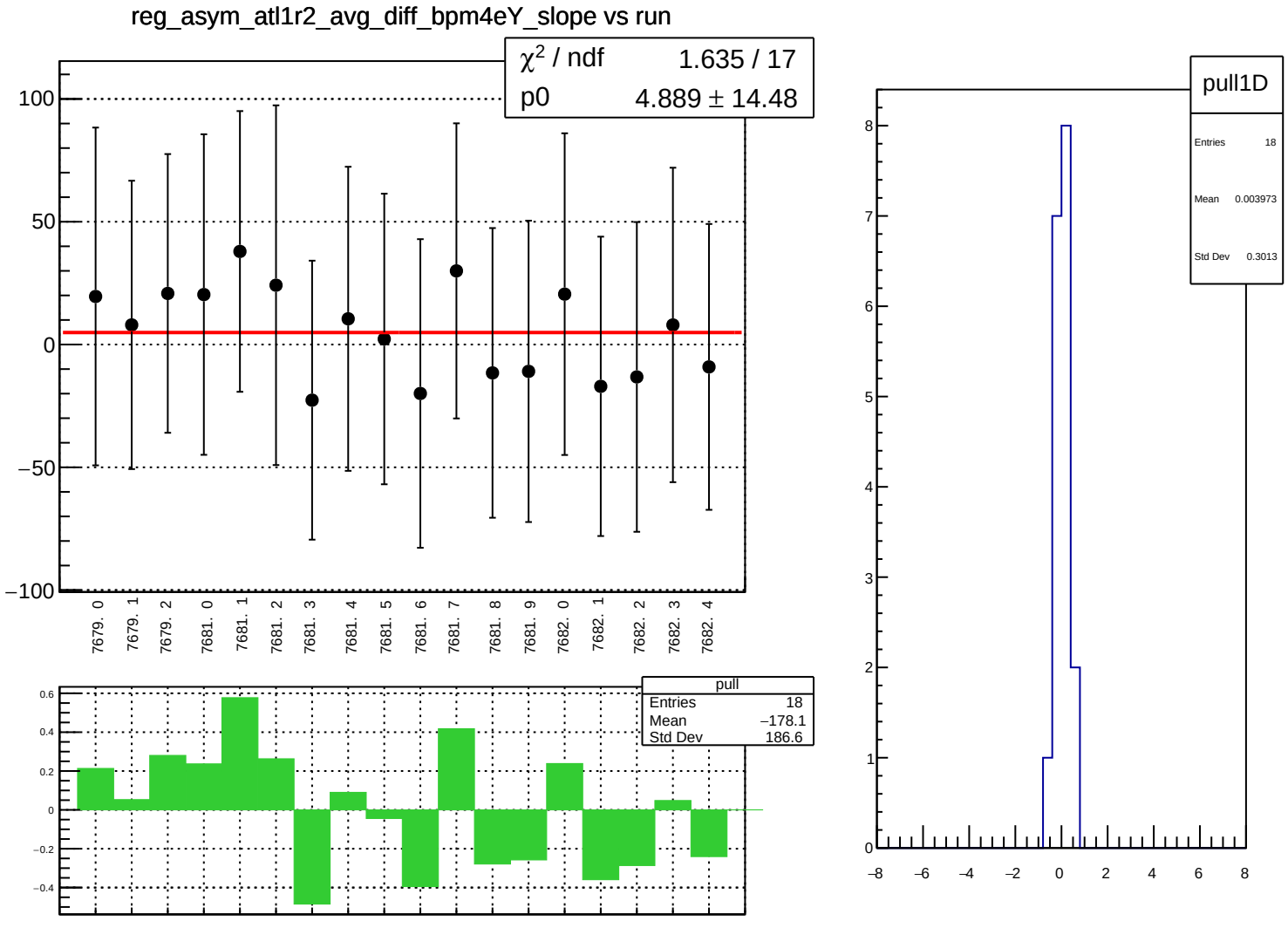

pull1D
Entries 18
Mean 0.000805
Std Dev 0.6862
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

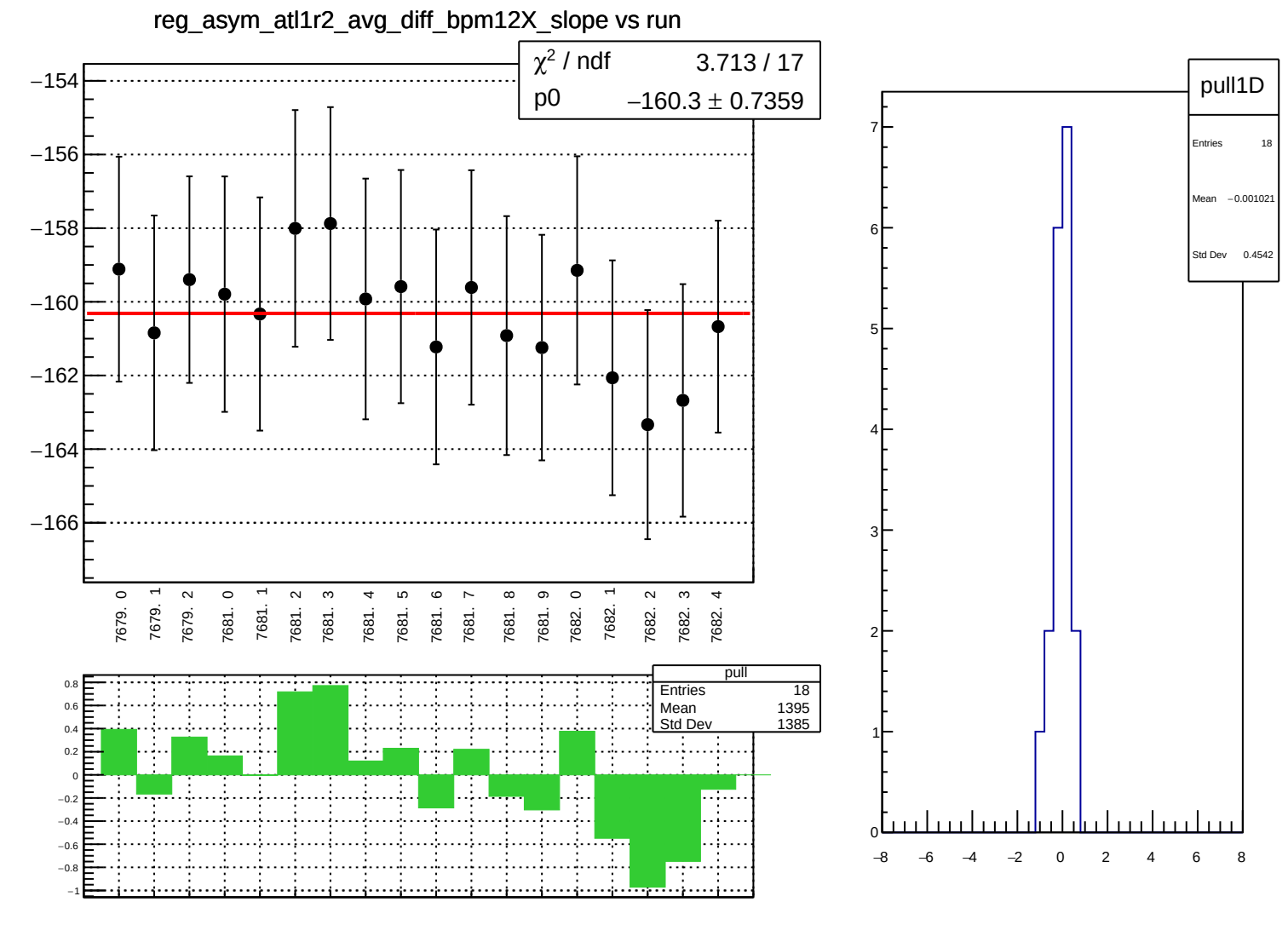

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 10.3 / 17
p0 −17.26 ± 0.3912
−13
−14
−15
−16
−17
−18
−19
−20
−21
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −508
Std Dev 519
1
0.5
0
−0.5
−1
pull1D
Entries 18
Mean 0.00336
Std Dev 0.7566
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

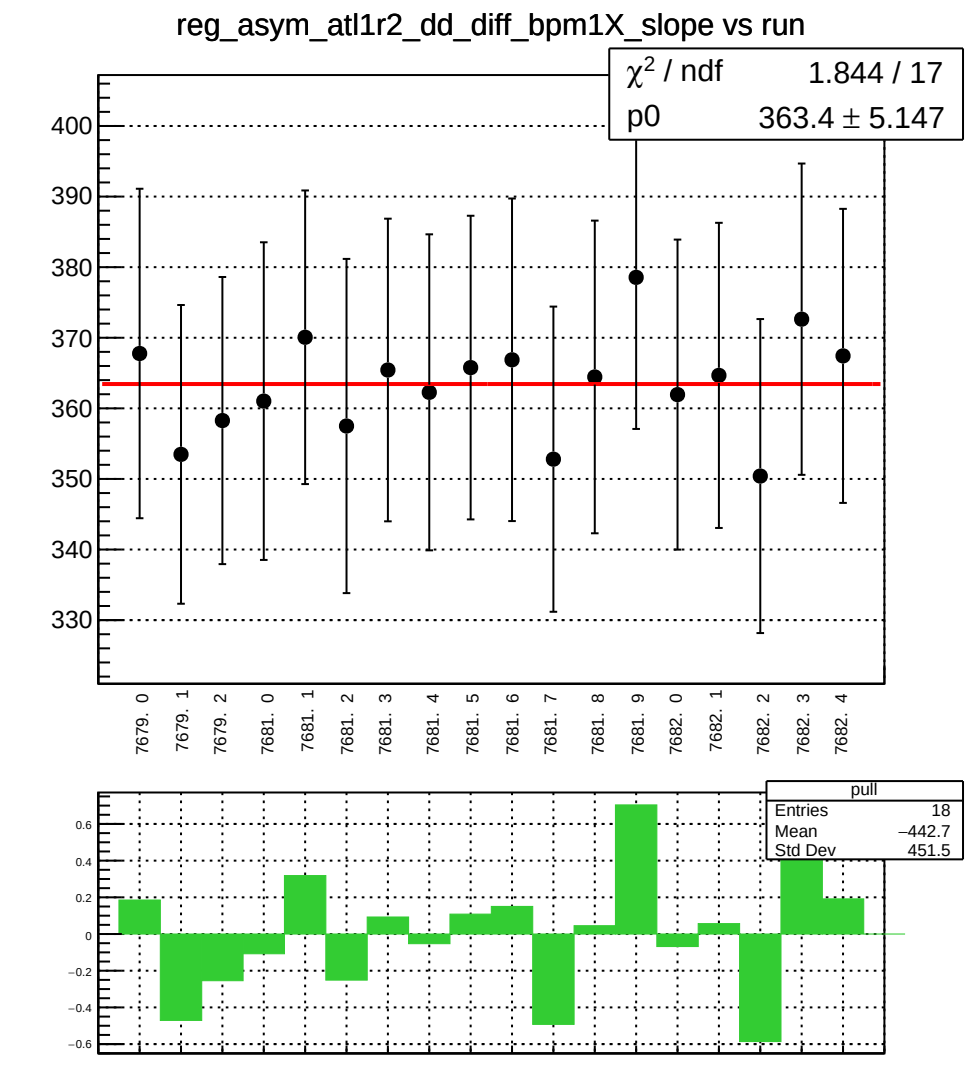

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 2.074 / 17
p0 −380.9 ± 5.877
−340
−350
−360
−370
−380
−390
−400
−410
−420
−430
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −375.4
Std Dev 385.5
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 18
Mean 0.002131
Std Dev 0.3394
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

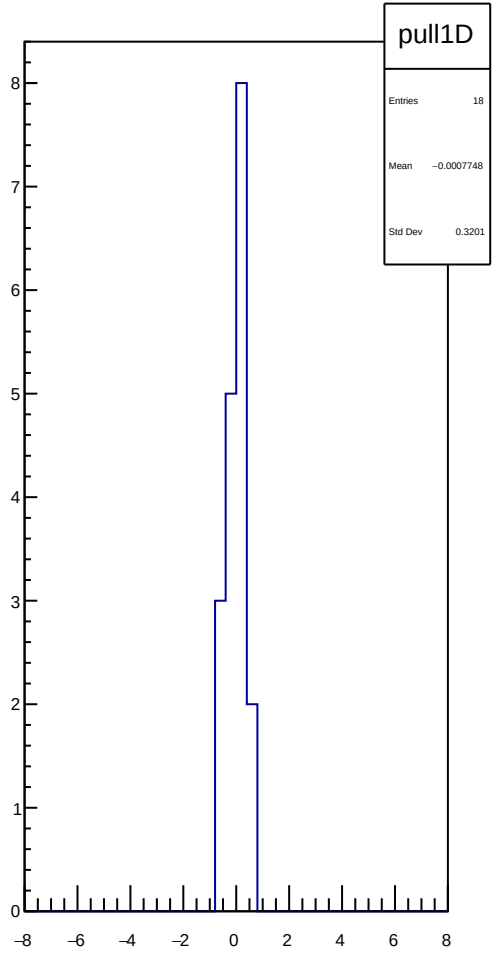

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.646 / 17
p0 49.02 ± 9.738
120
100
80
60
40
20
0
−20
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −119.7
Std Dev 128.1
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 18
Mean −0.005684
Std Dev 0.3024
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

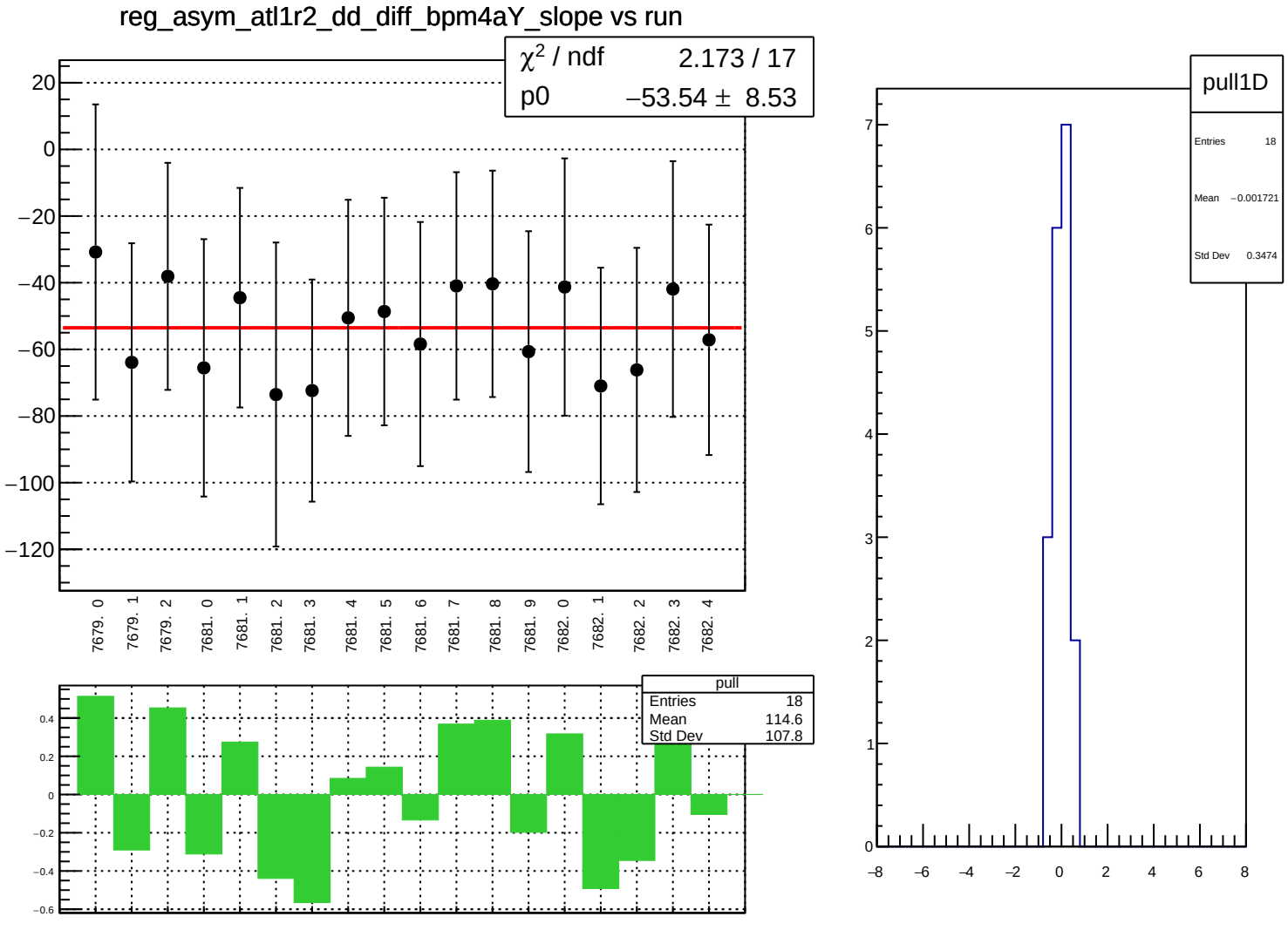

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.861 / 17
p0 431.4 ± 4.76
470
460
450
440
430
420
410
400
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −287.7
Std Dev 298.1
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 18
Mean −0.002378
Std Dev 0.3215
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

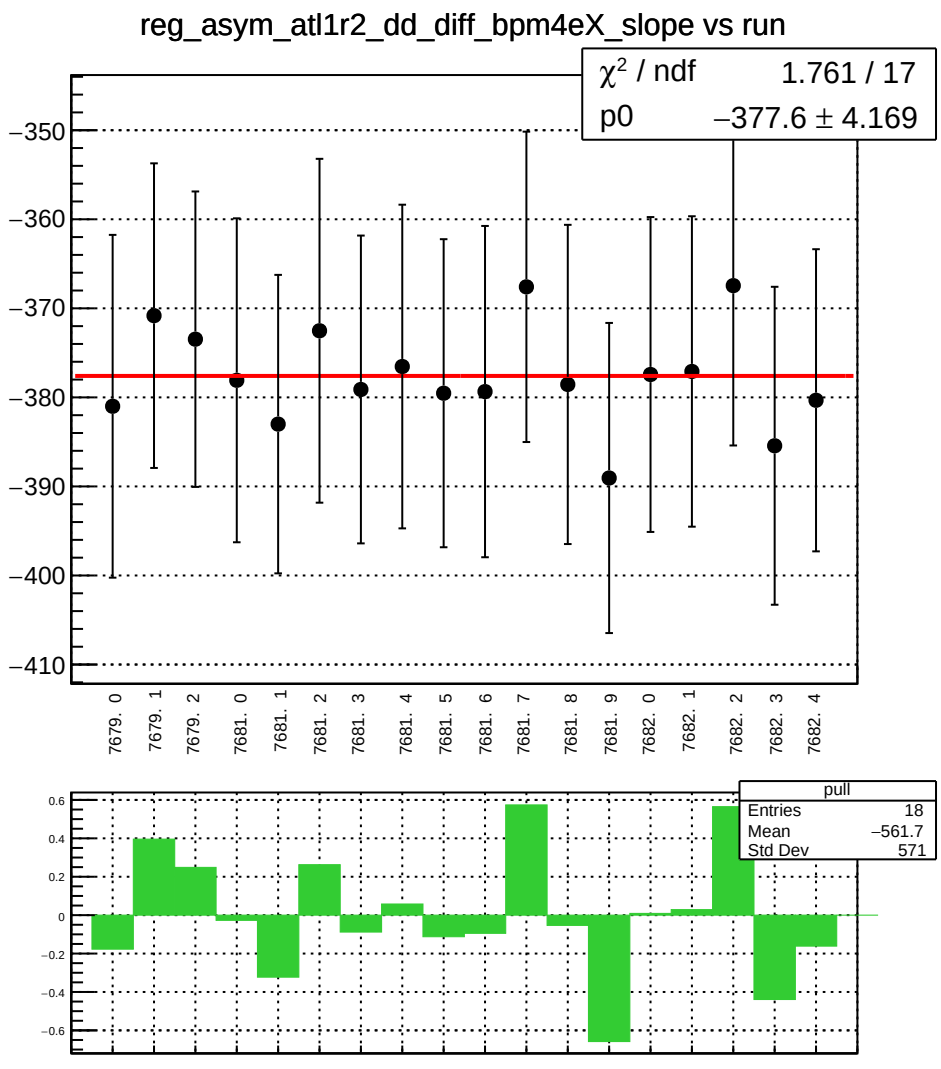

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.635 / 17
p0 4.889 ± 14.48
100
50
0
−50
−100
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −178.1
Std Dev 186.6
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 18
Mean 0.003973
Std Dev 0.3013
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

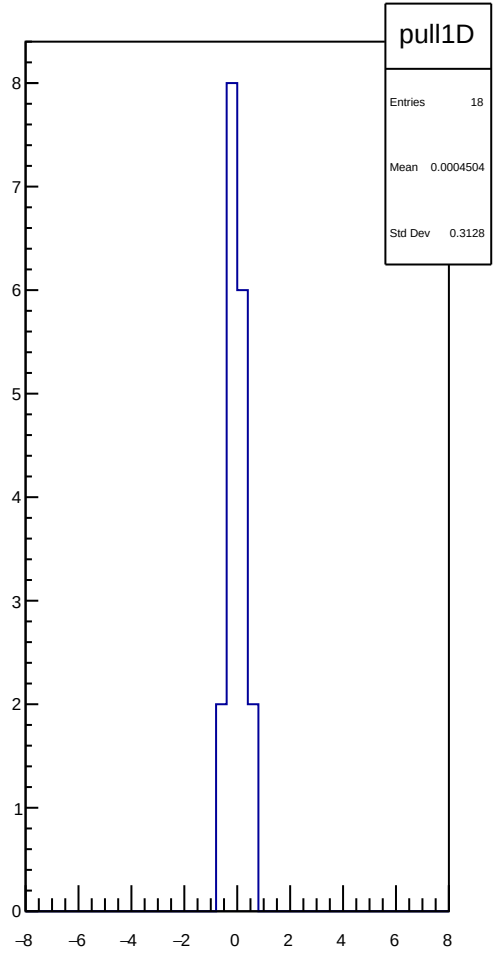

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 3.713 / 17
p0 −160.3 ± 0.7359
−154
−156
−158
−160
−162
−164
−166
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 1395
Std Dev 1385
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 18
Mean −0.001021
Std Dev 0.4542
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

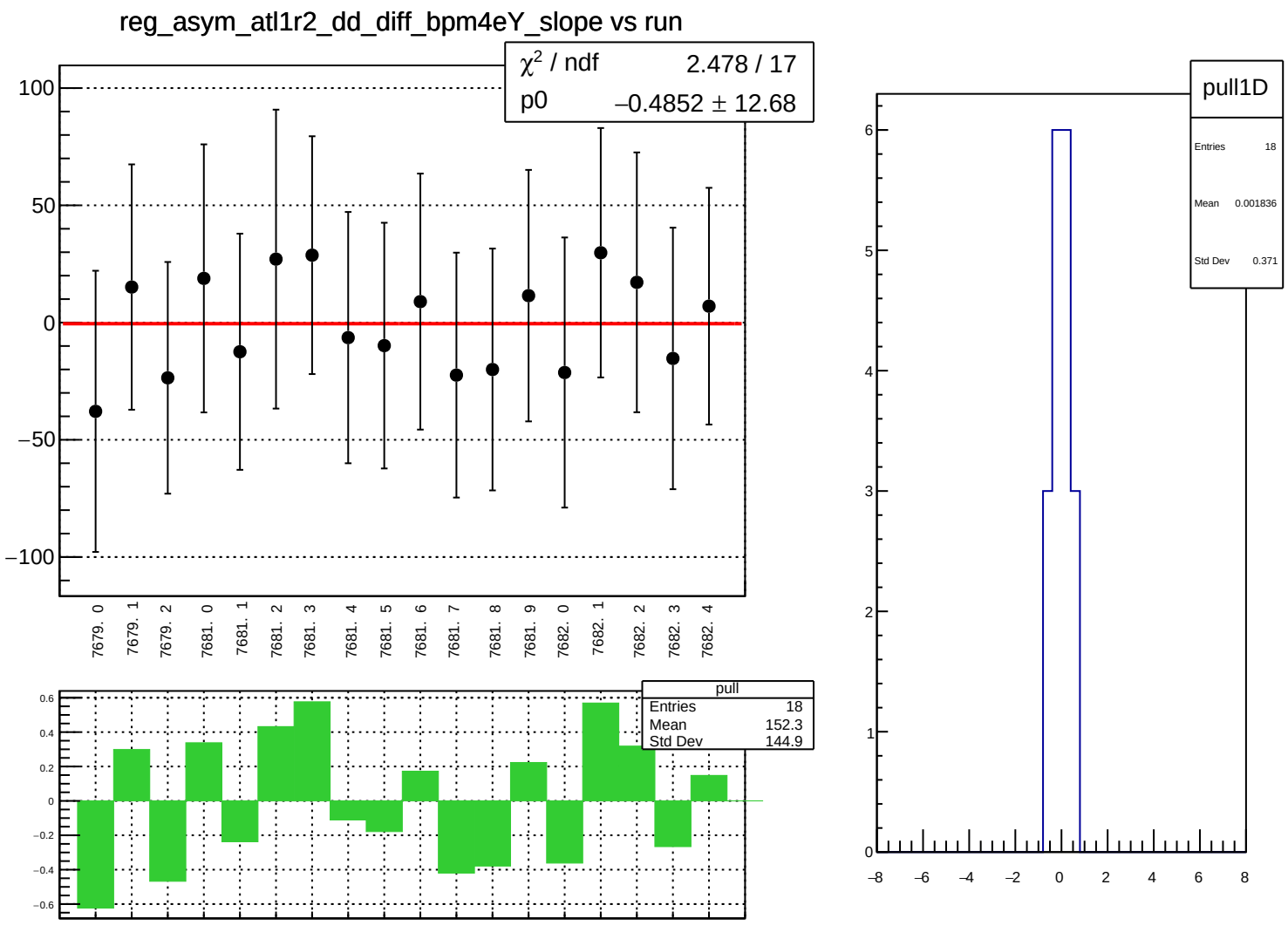

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 1.844 / 17
p0 363.4 ± 5.147
400
390
380
370
360
350
340
330
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −442.7
Std Dev 451.5
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

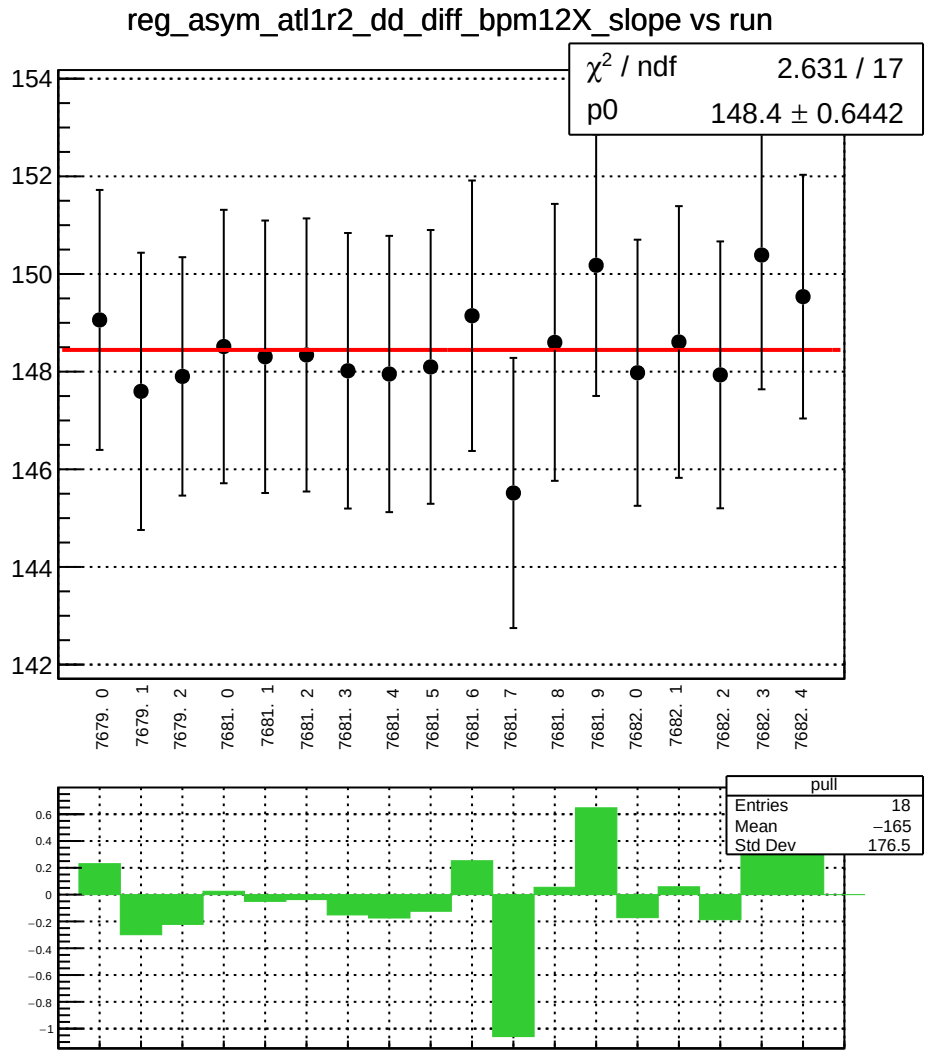

pull1D
Entries 18
Mean −0.0007748
Std Dev 0.3201
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

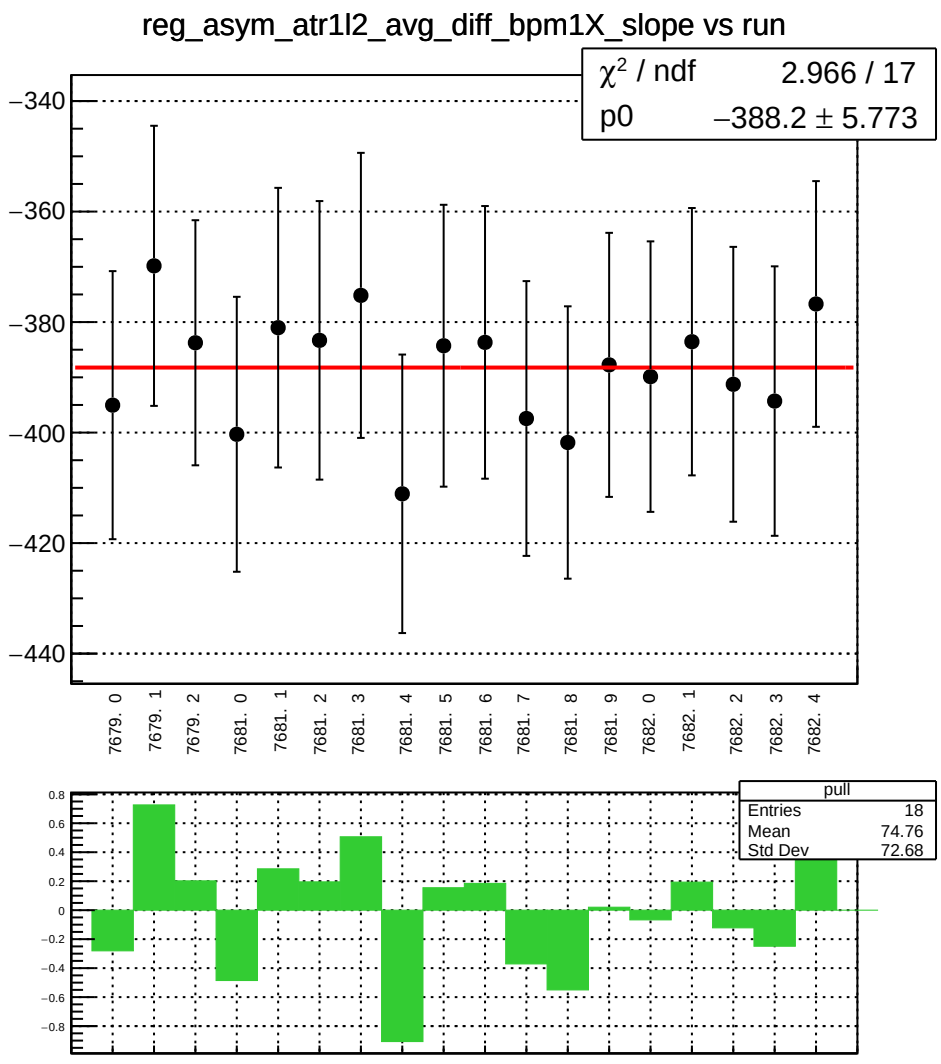

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.173 / 17
p0 −53.54 ± 8.53
20
0
−20
−40
−60
−80
−100
−120
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 114.6
Std Dev 107.8
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 18
Mean −0.001721
Std Dev 0.3474
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

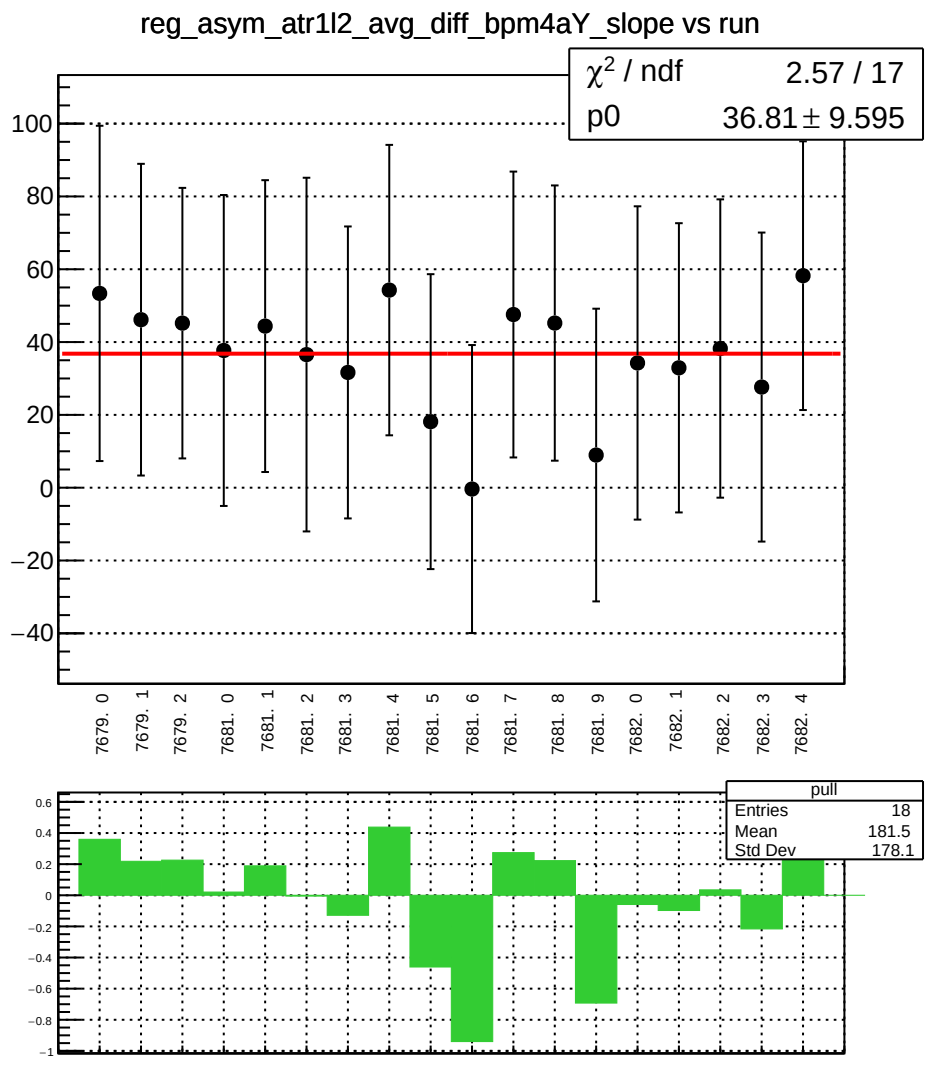

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.761 / 17
p0 −377.6 ± 4.169
−350
−360
−370
−380
−390
−400
−410
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −561.7
Std Dev 571
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

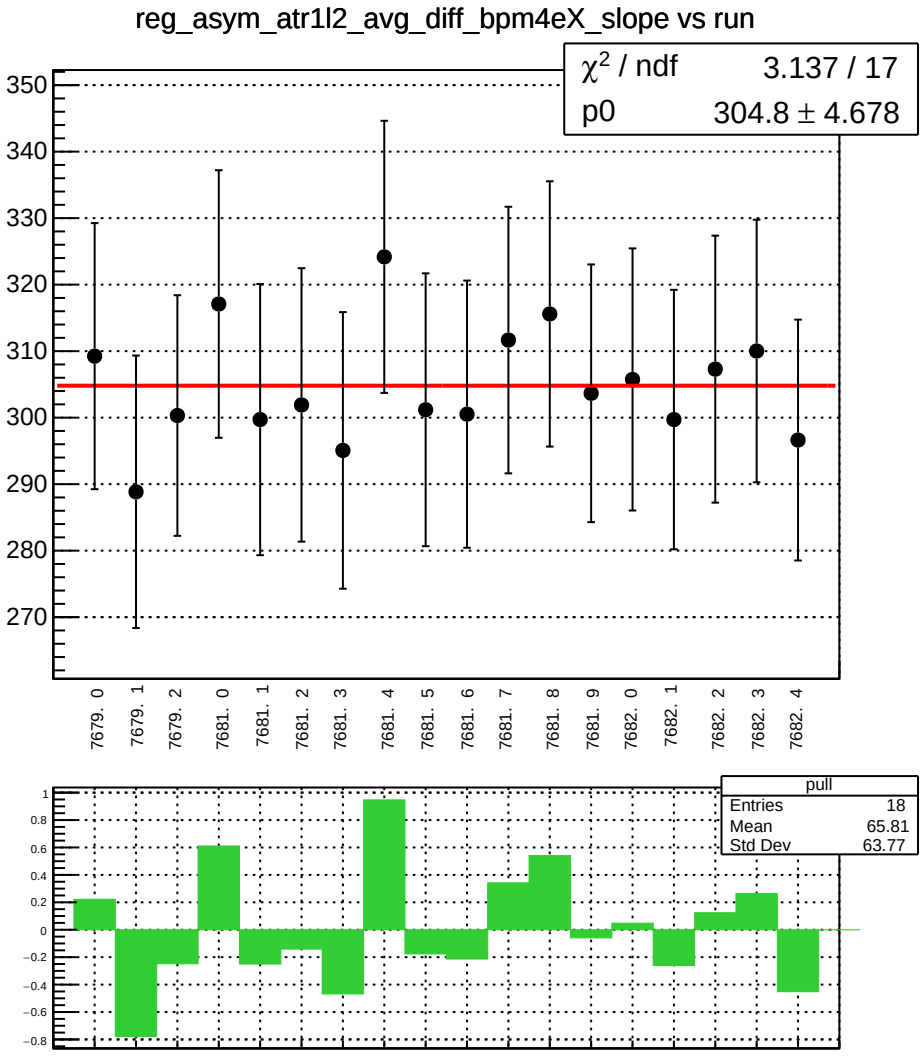

pull1D
Entries 18
Mean 0.0004504
Std Dev 0.3128
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

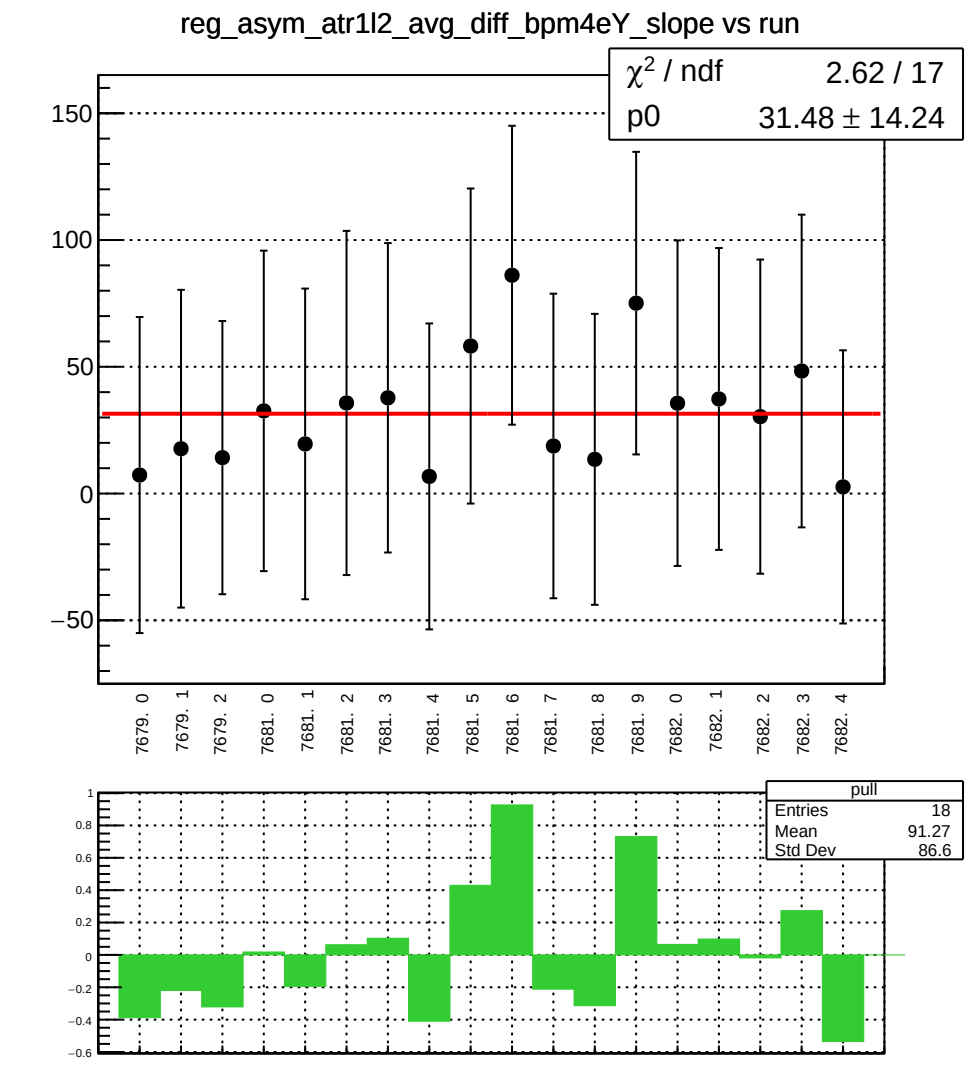

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.478 / 17
p0 −0.4852 ± 12.68
100
50
0
−50
−100
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 152.3
Std Dev 144.9
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 18
Mean 0.001836
Std Dev 0.371
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

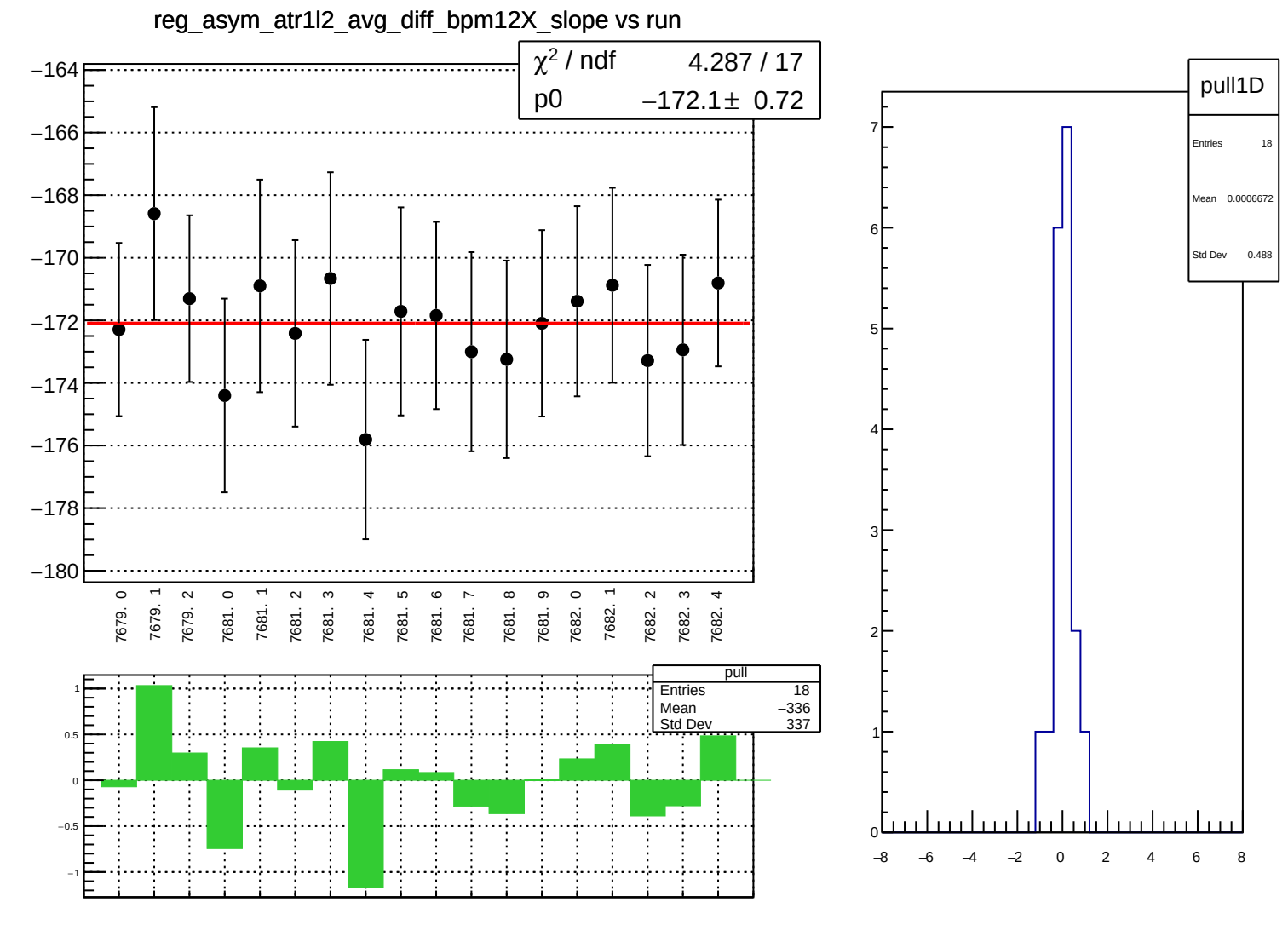

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 2.631 / 17
p0 148.4 ± 0.6442
154
152
150
148
146
144
142
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −165
Std Dev 176.5
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 18
Mean −0.003492
Std Dev 0.3823
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

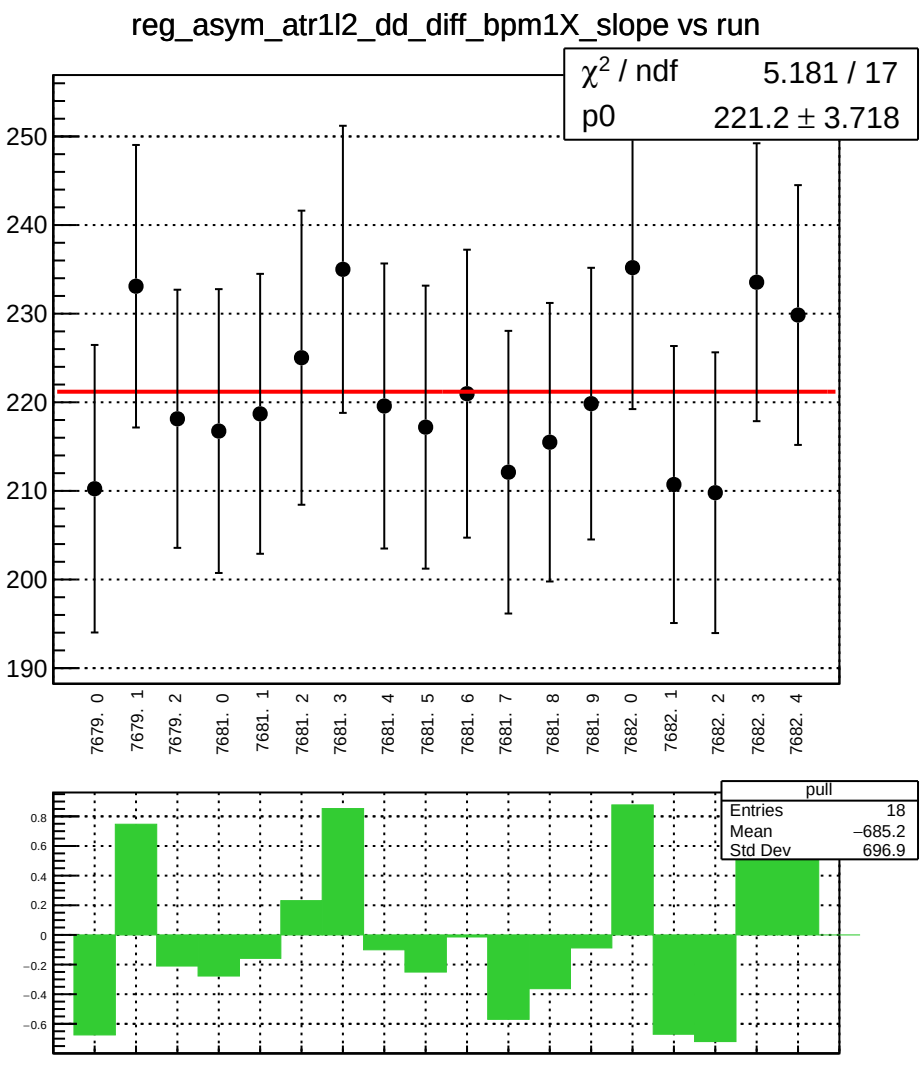

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 2.966 / 17
p0 −388.2 ± 5.773
−340
−360
−380
−400
−420
−440
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 74.76
Std Dev 72.68
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 18
Mean −0.002469
Std Dev 0.4059
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

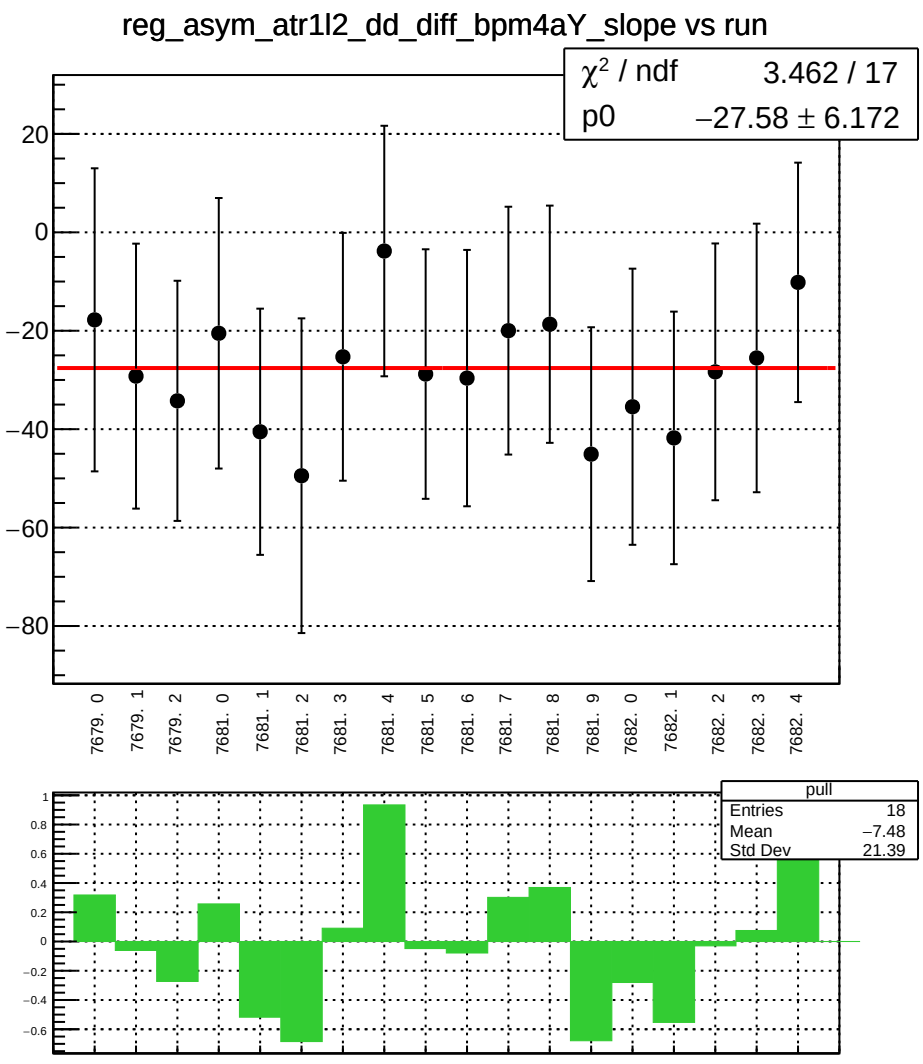

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.57 / 17
p0 36.81 ± 9.595
100
80
60
40
20
0
−20
−40
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 181.5
Std Dev 178.1
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 18
Mean −0.002061
Std Dev 0.3779
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

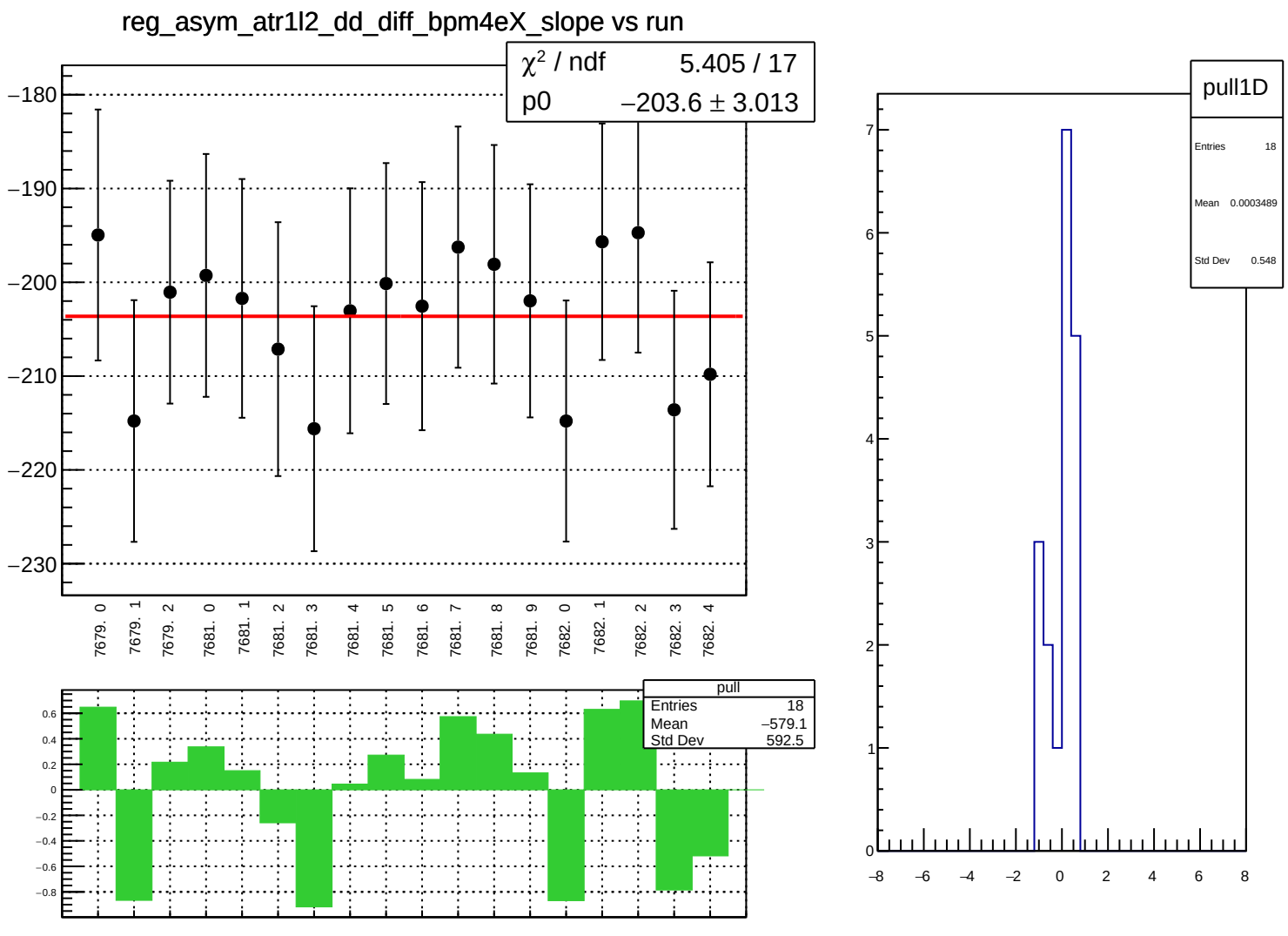

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.137 / 17
p0 304.8 ± 4.678
350
340
330
320
310
300
290
280
270
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 65.81
Std Dev 63.77
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 18
Mean 0.002878
Std Dev 0.4175
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.62 / 17
p0 31.48 ± 14.24
150
100
50
0
−50
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 91.27
Std Dev 86.6
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 18
Mean 0.005312
Std Dev 0.3814
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 4.287 / 17
p0 −172.1± 0.72
−164
−166
−168
−170
−172
−174
−176
−178
−180
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −336
Std Dev 337
1
0.5
0
−0.5
−1
pull1D
Entries 18
Mean 0.0006672
Std Dev 0.488
7
6
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 5.181 / 17
p0 221.2 ± 3.718
250
240
230
220
210
200
190
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −685.2
Std Dev 696.9
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 18
Mean −0.0004409
Std Dev 0.5365
8
7
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 3.462 / 17
p0 −27.58 ± 6.172
20
0
−20
−40
−60
−80
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −7.48
Std Dev 21.39
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 18
Mean −0.007913
Std Dev 0.4385
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 5.405 / 17
p0 −203.6 ± 3.013
−180
−190
−200
−210
−220
−230
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −579.1
Std Dev 592.5
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 18
Mean 0.0003489
Std Dev 0.548
7
6
5
4
3
2
1
0
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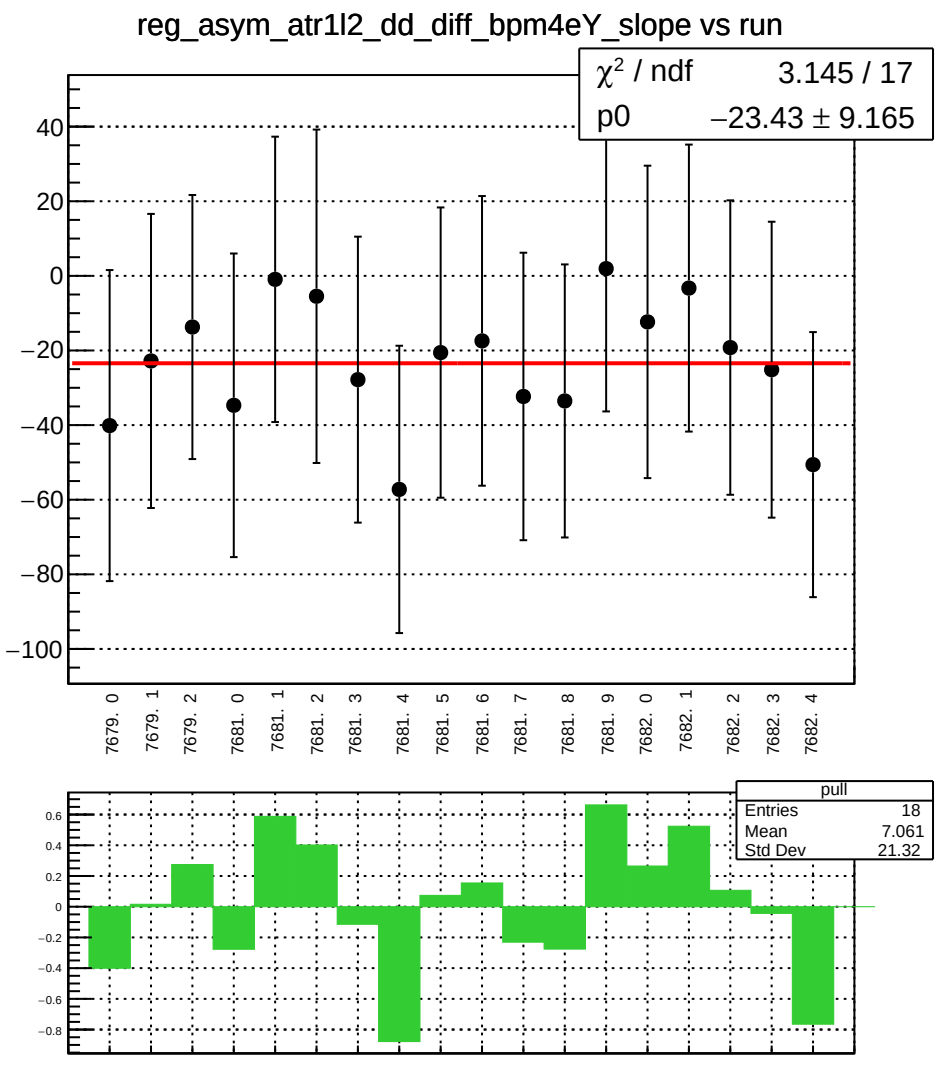
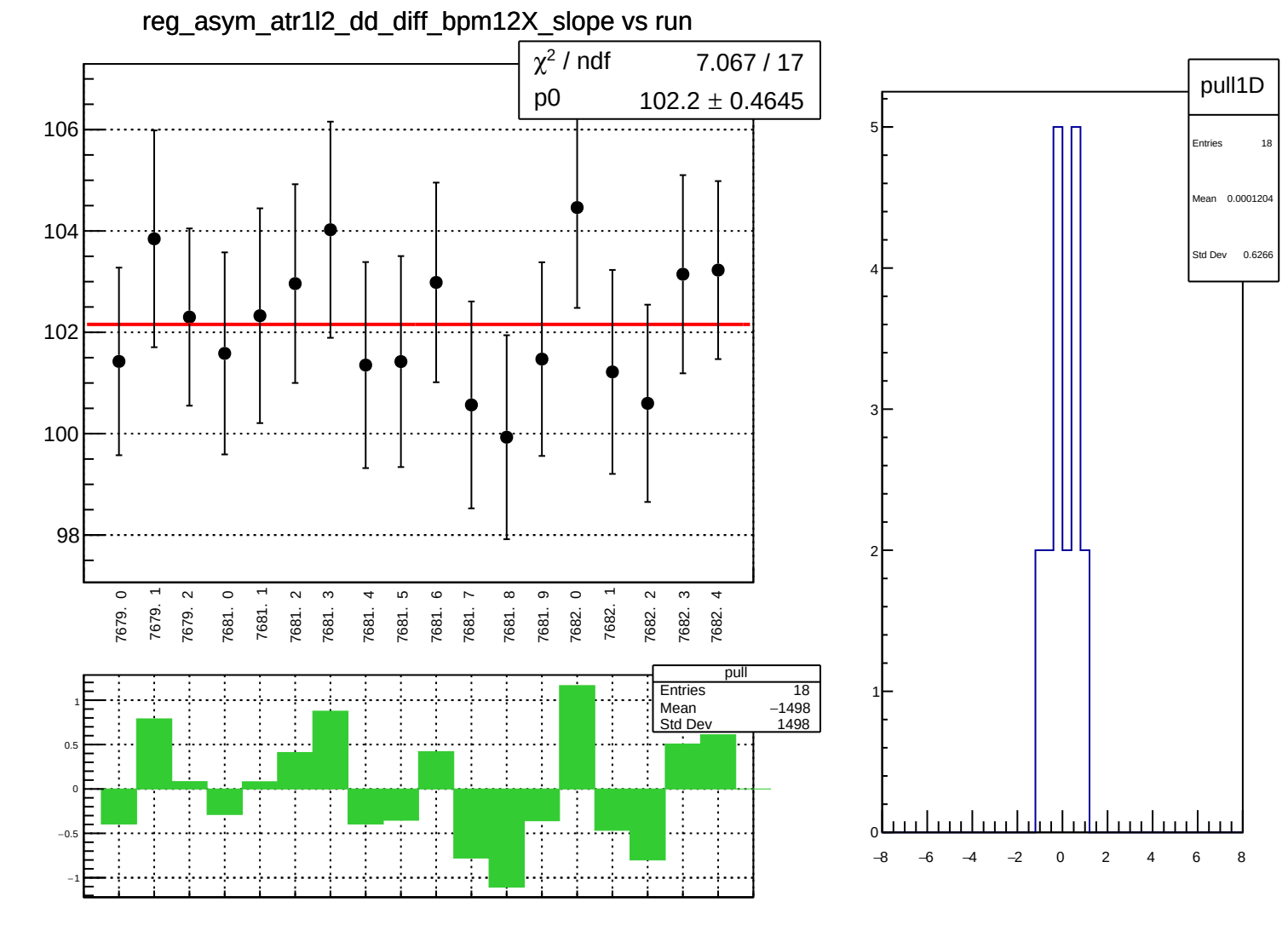
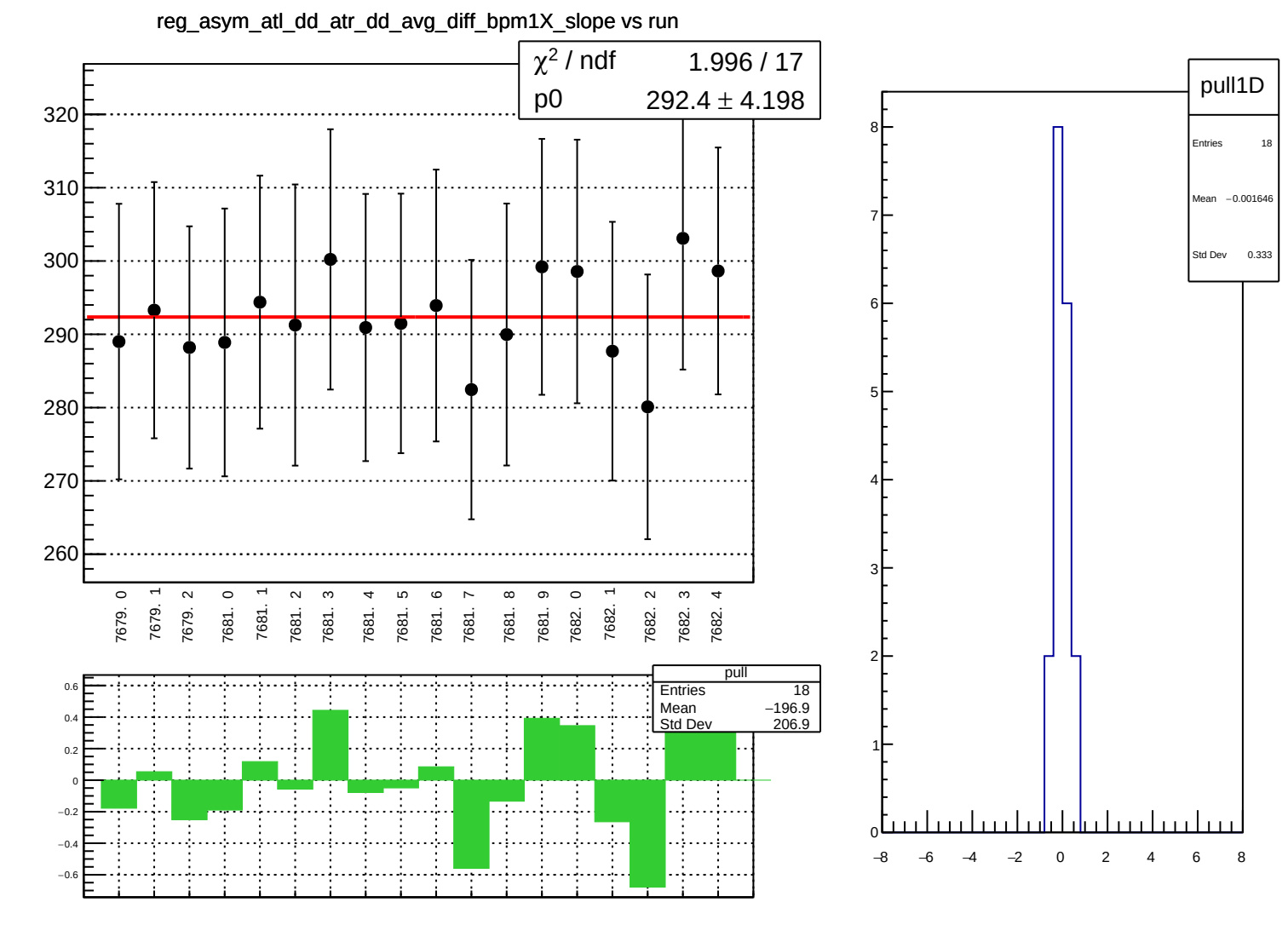
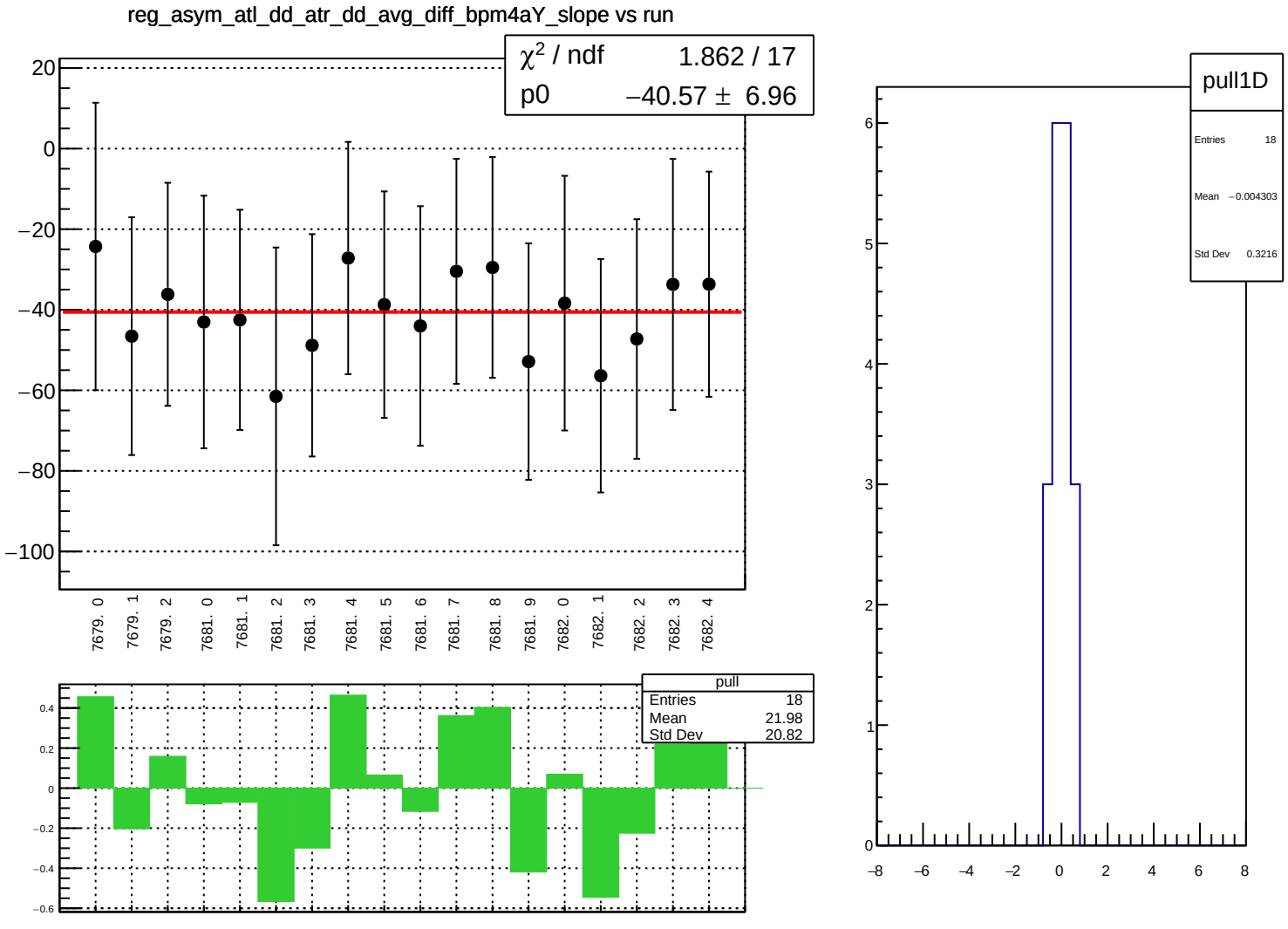
−6
−4
−2
0
2
4
6
8


reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.145 / 17
p0 −23.43 ± 9.165
40
20
0
−20
−40
−60
−80
−100
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 7.061
Std Dev 21.32
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 18
Mean 0.004527
Std Dev 0.418
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 7.067 / 17
p0 102.2 ± 0.4645
106
104
102
100
98
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −1498
Std Dev 1498
1
0.5
0
−0.5
−1
pull1D
Entries 18
Mean 0.0001204
Std Dev 0.6266
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 1.996 / 17
p0 292.4 ± 4.198
320
310
300
290
280
270
260
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −196.9
Std Dev 206.9
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 18
Mean −0.001646
Std Dev 0.333
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_bpm4aY_slope vs run
χ² / ndf 1.862 / 17
p0 −40.57 ± 6.96
20
0
−20
−40
−60
−80
−100
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 21.98
Std Dev 20.82
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 18
Mean −0.004303
Std Dev 0.3216
6
5
4
3
2
1
0
−8
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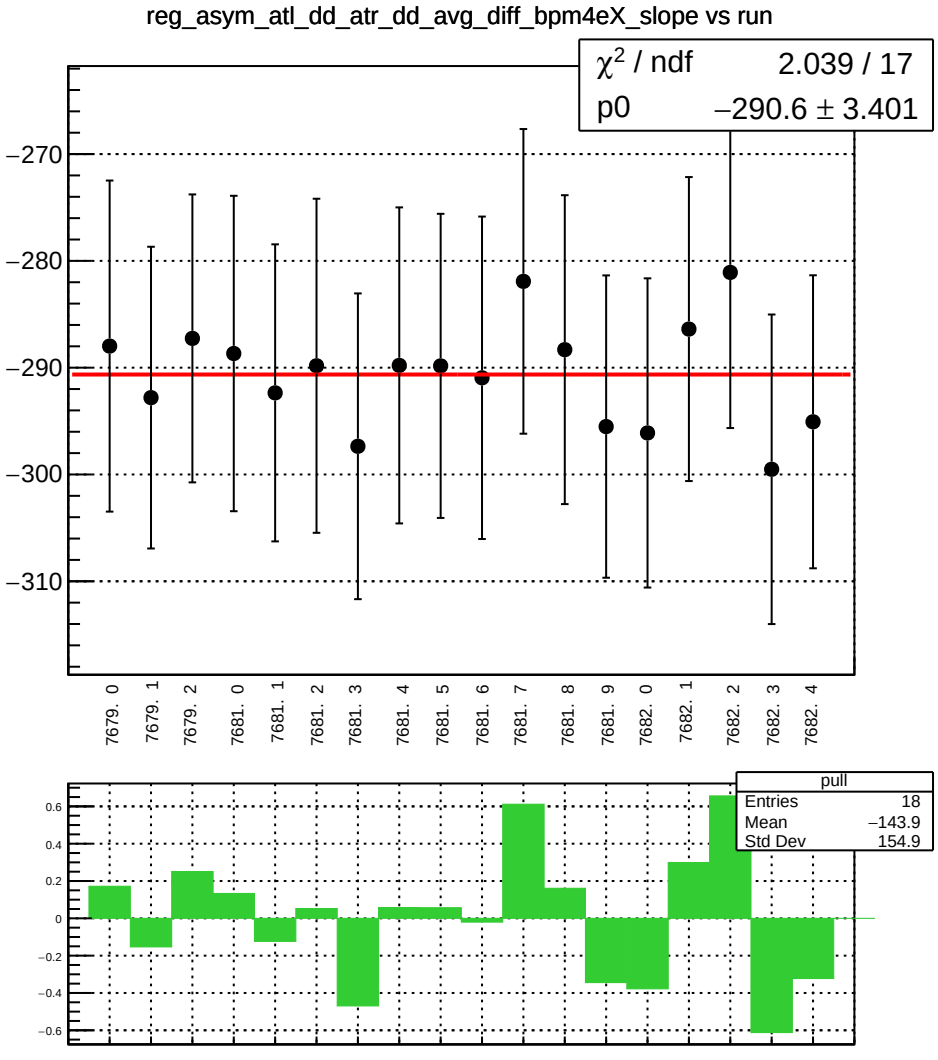
−4
−2
0
2
4
6
8


reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.039 / 17
p0 −290.6 ± 3.401
−270
−280
−290
−300
−310
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −143.9
Std Dev 154.9
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 18
Mean 0.001549
Std Dev 0.3366
8
7
6
5
4
3
2
1
0
−8
−6
−4
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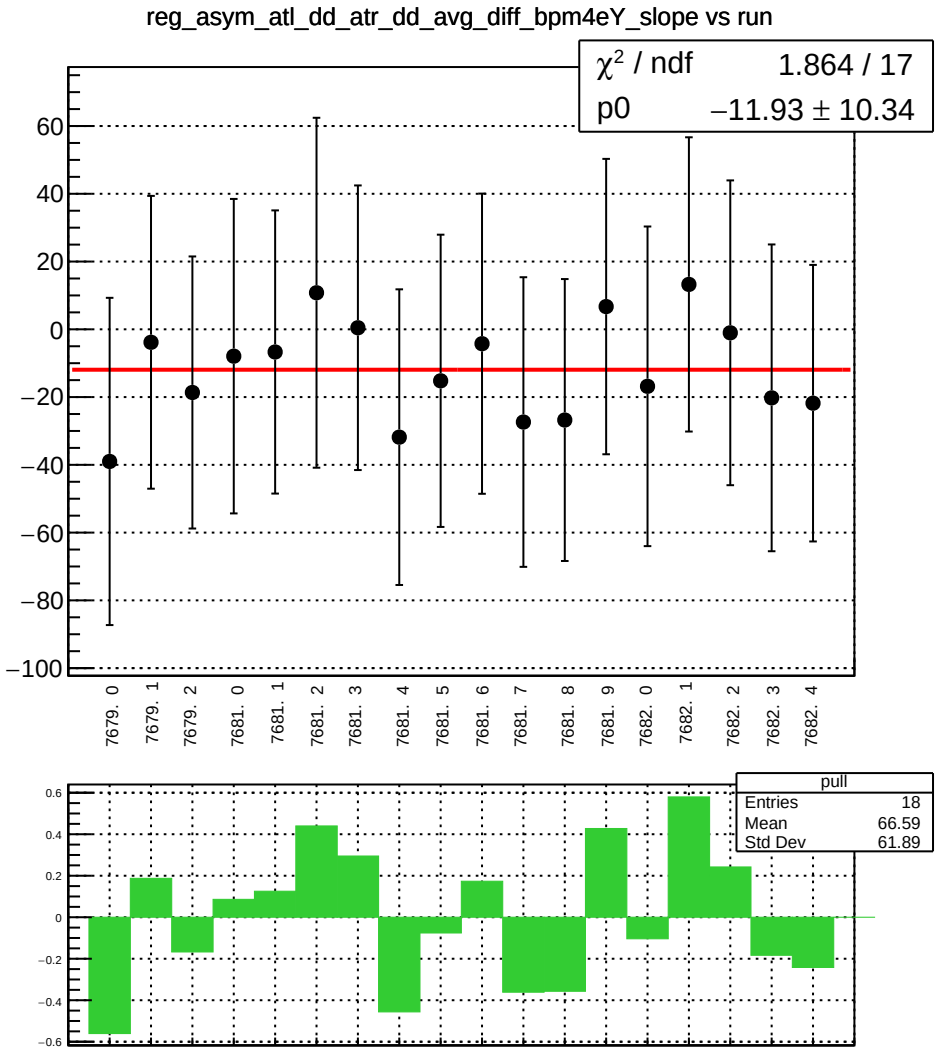
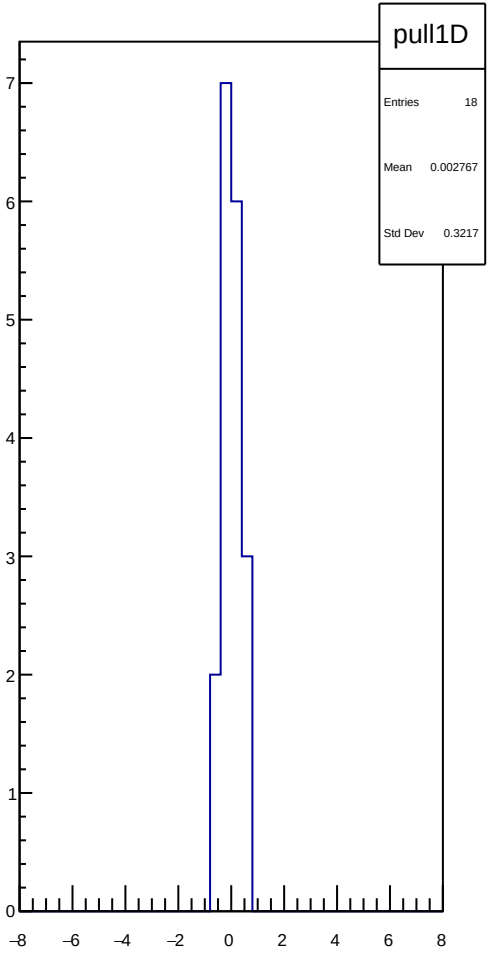
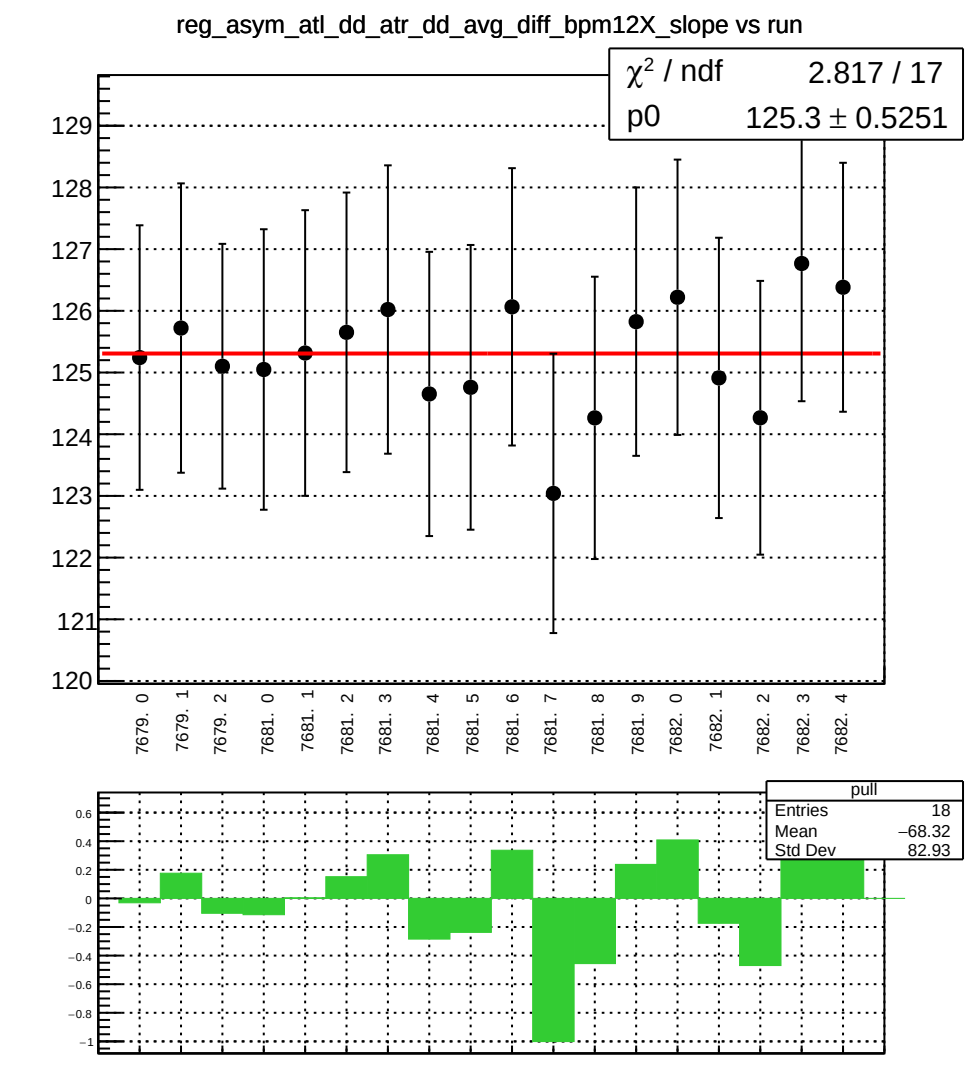
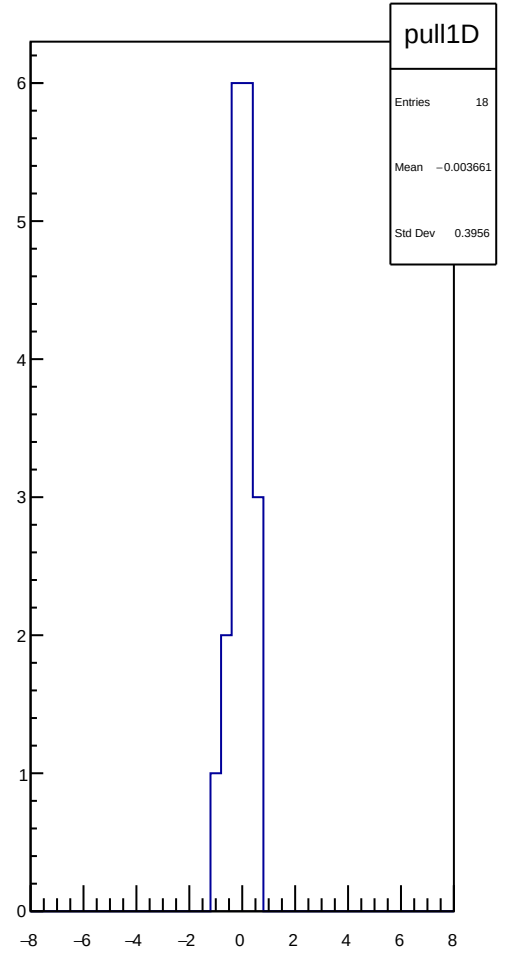
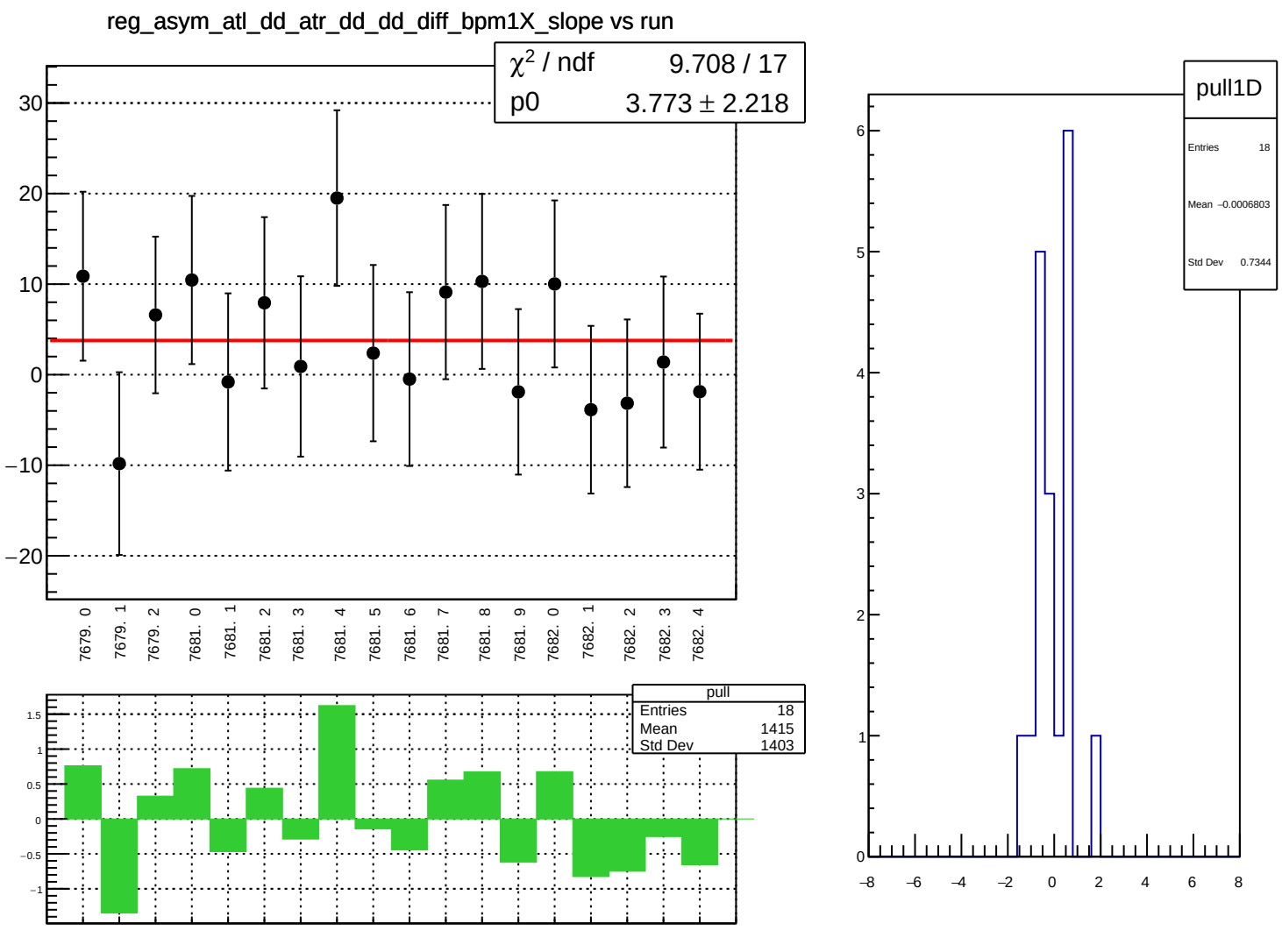
2
4
6
8

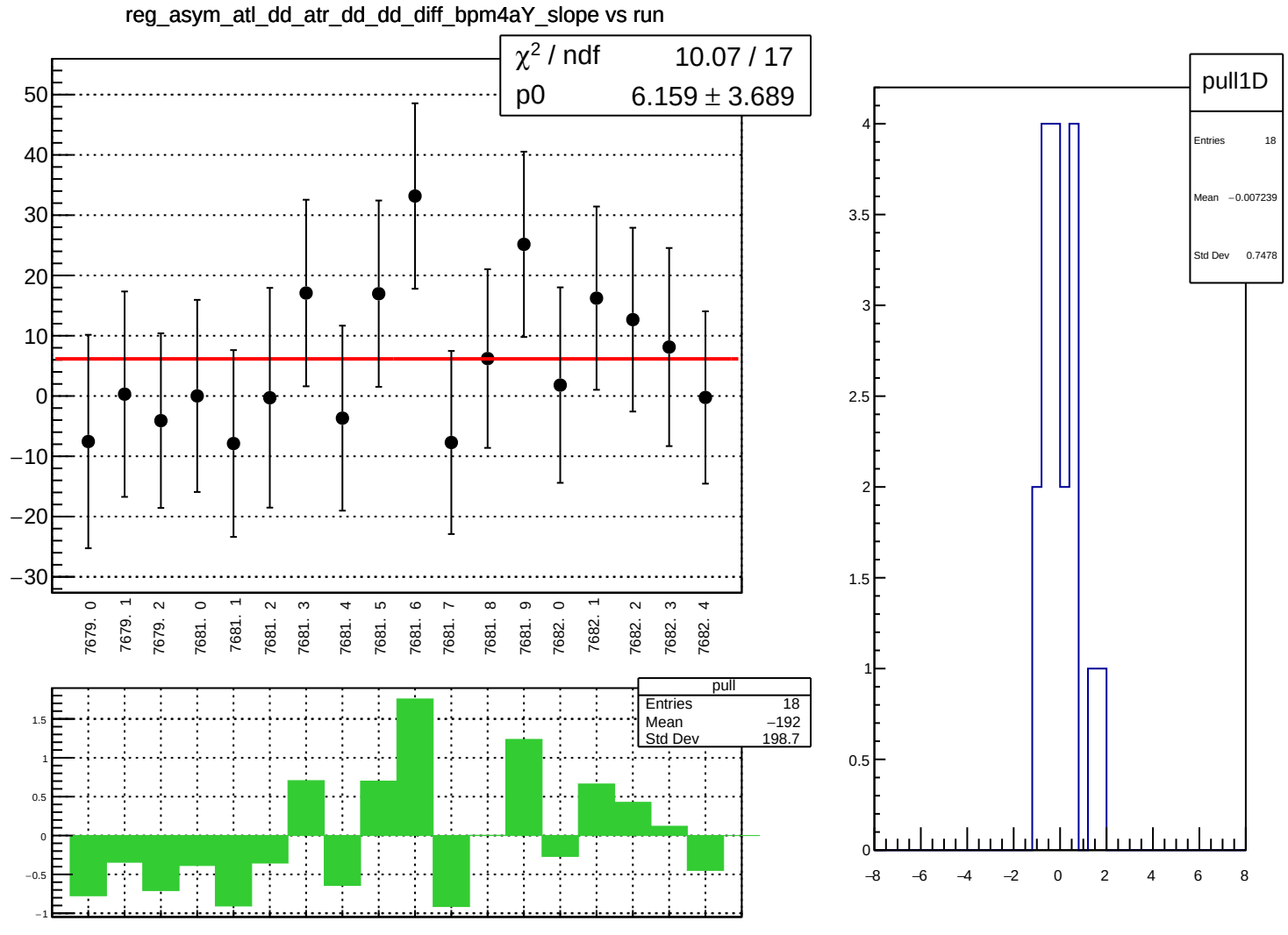

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.864 / 17
p0 −11.93 ± 10.34
60
40
20
0
−20
−40
−60
−80
−100
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 66.59
Std Dev 61.89
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

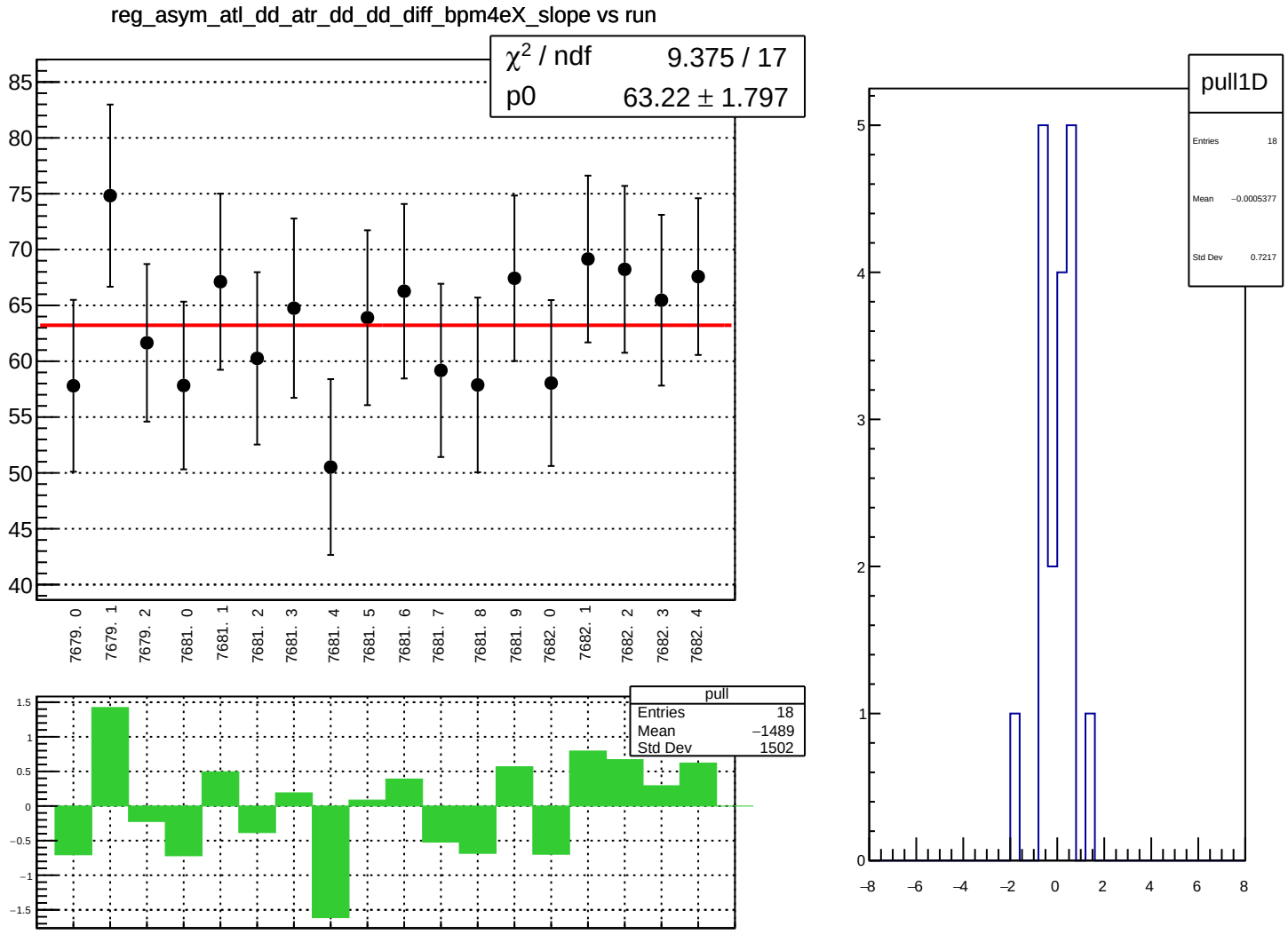

pull1D
Entries 18
Mean 0.002767
Std Dev 0.3217
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

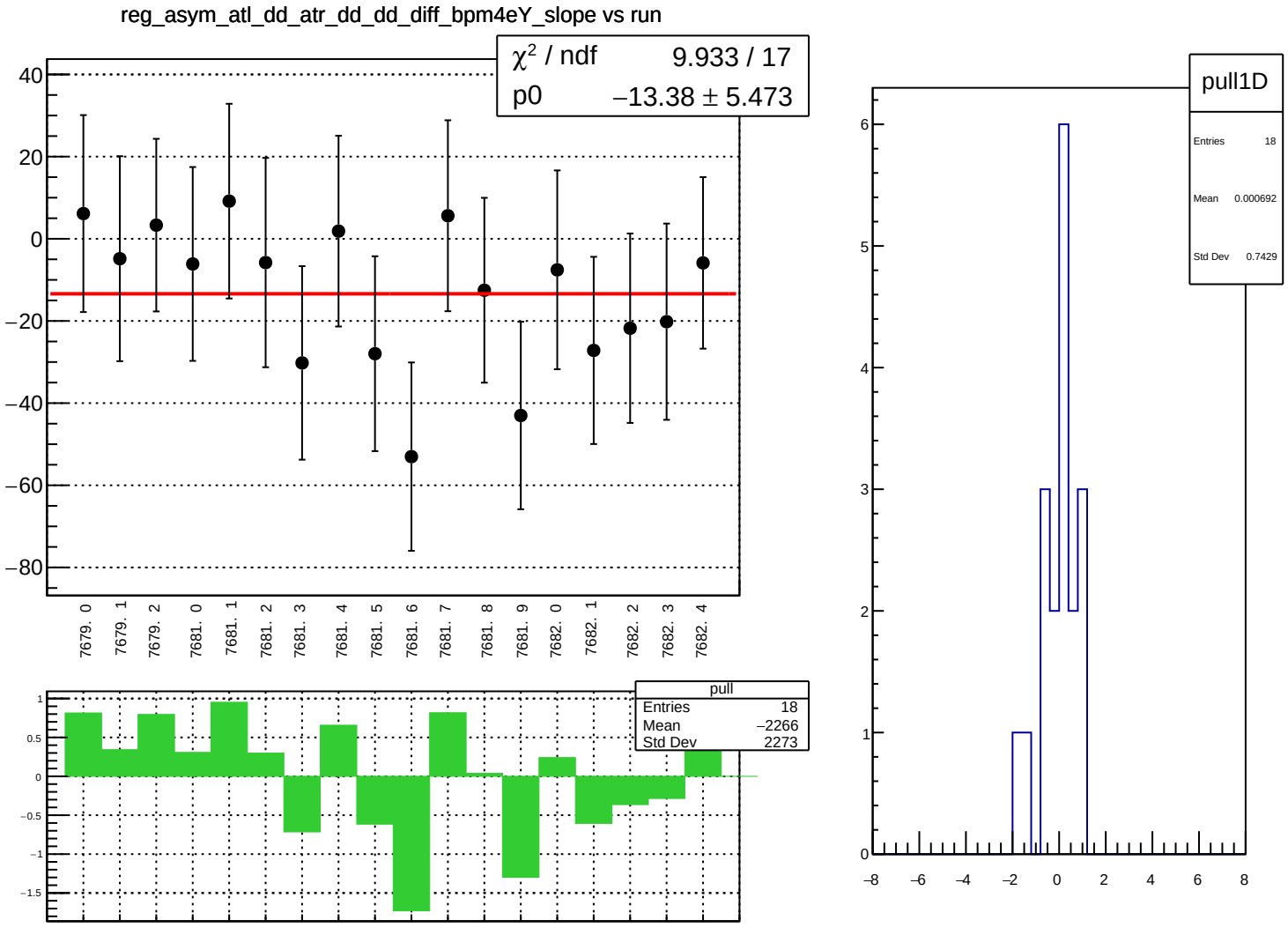

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 2.817 / 17
p0 125.3 ± 0.5251
129
128
127
126
125
124
123
122
121
120
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −68.32
Std Dev 82.93
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

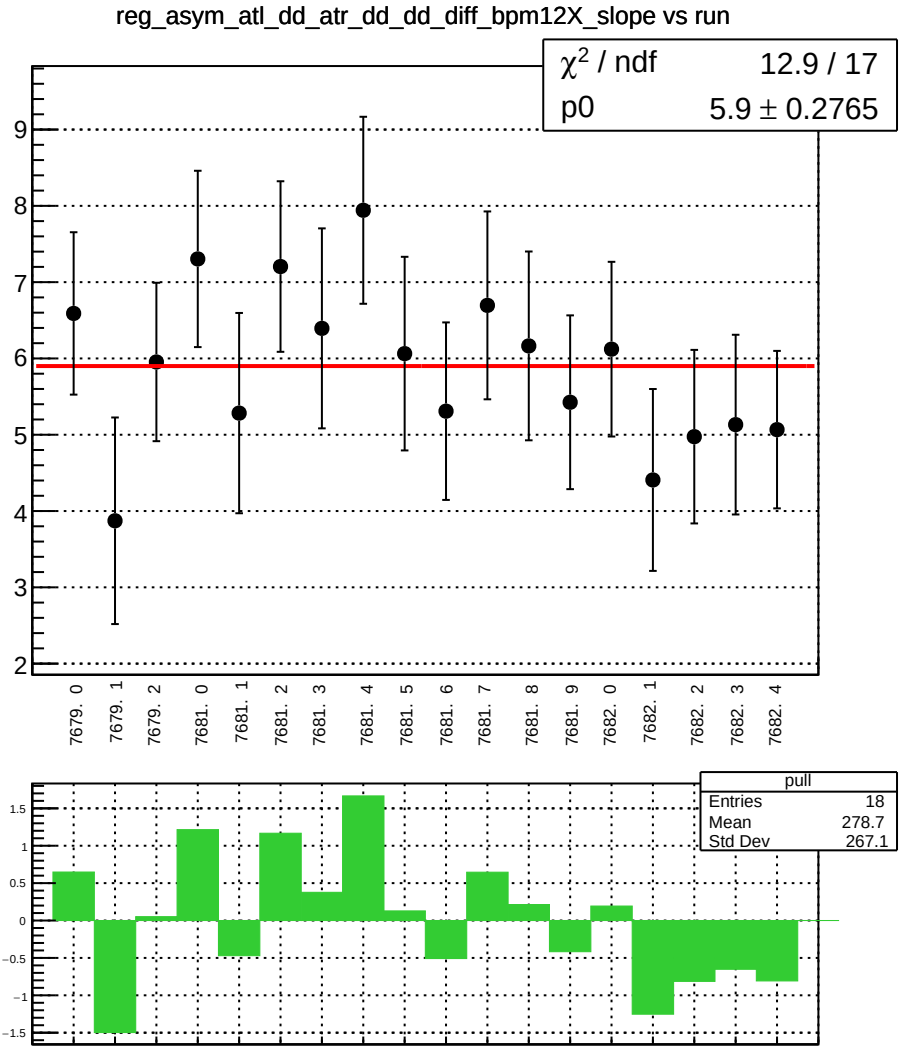

pull1D
Entries 18
Mean −0.003661
Std Dev 0.3956
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

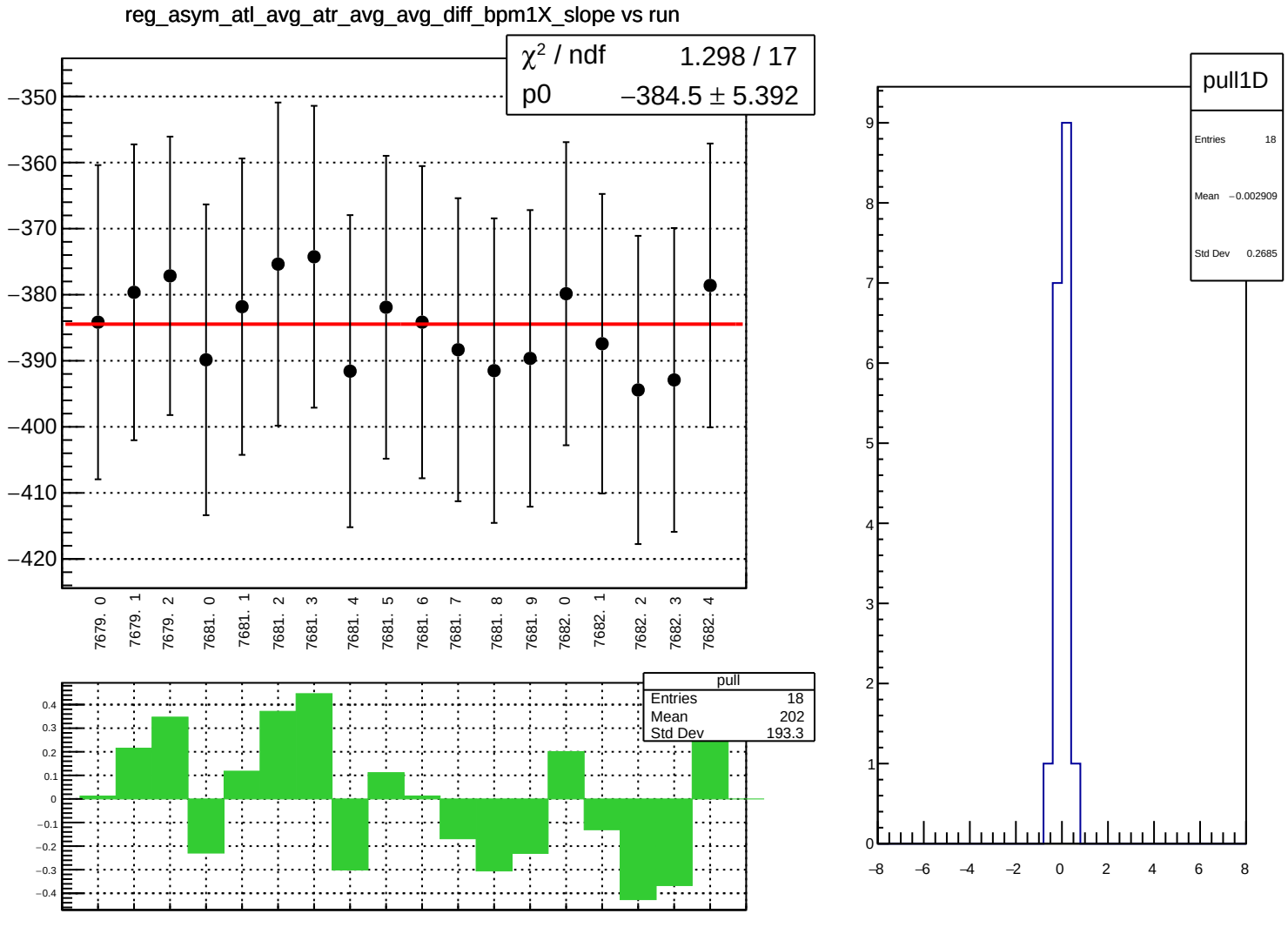

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 9.708 / 17
p0 3.773 ± 2.218
30
20
10
0
−10
−20
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 1415
Std Dev 1403
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 18
Mean −0.0006803
Std Dev 0.7344
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

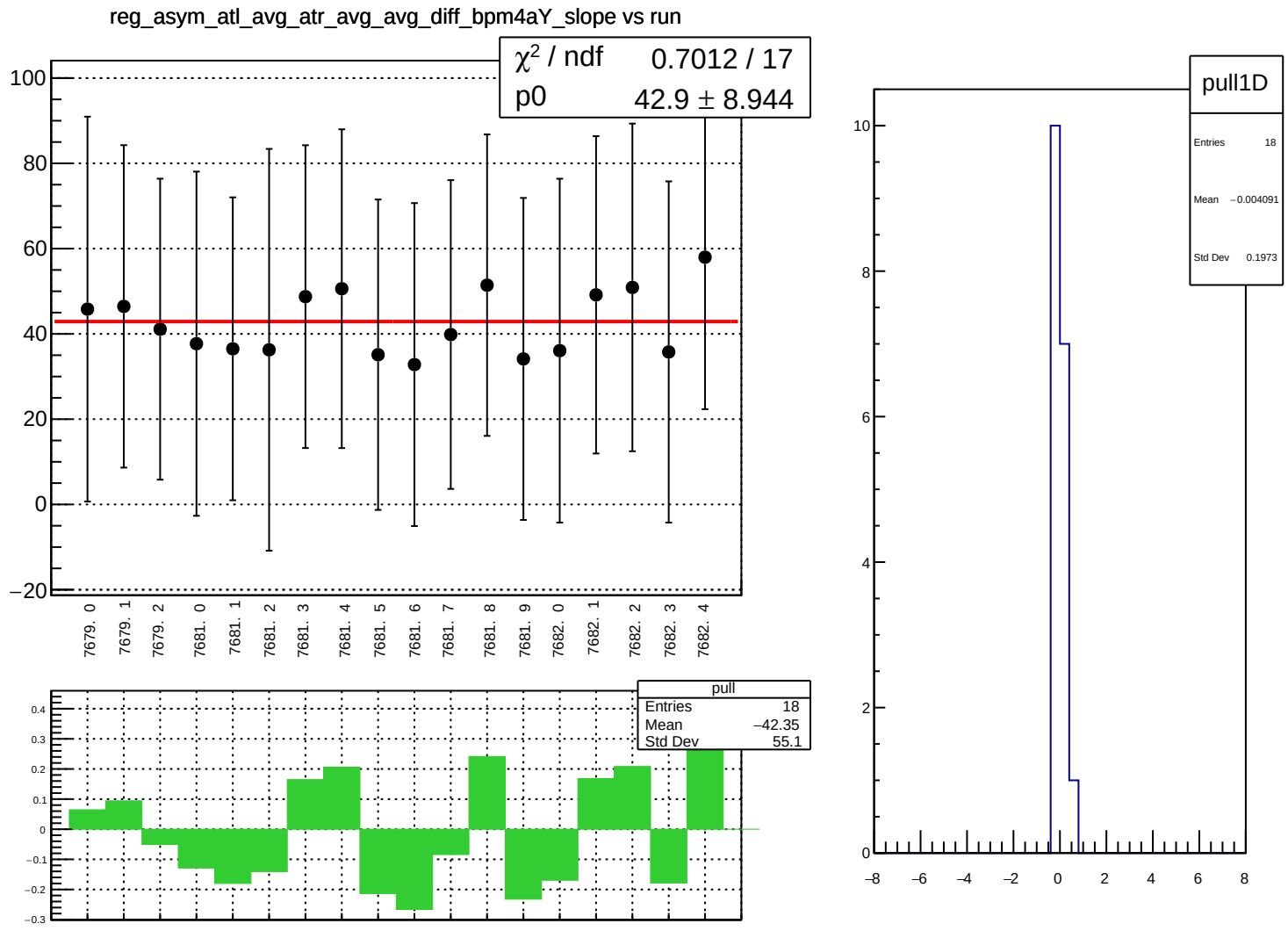

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.07 / 17
p0 6.159 ± 3.689
50
40
30
20
10
0
−10
−20
−30
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −192
Std Dev 198.7
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 18
Mean −0.007239
Std Dev 0.7478
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

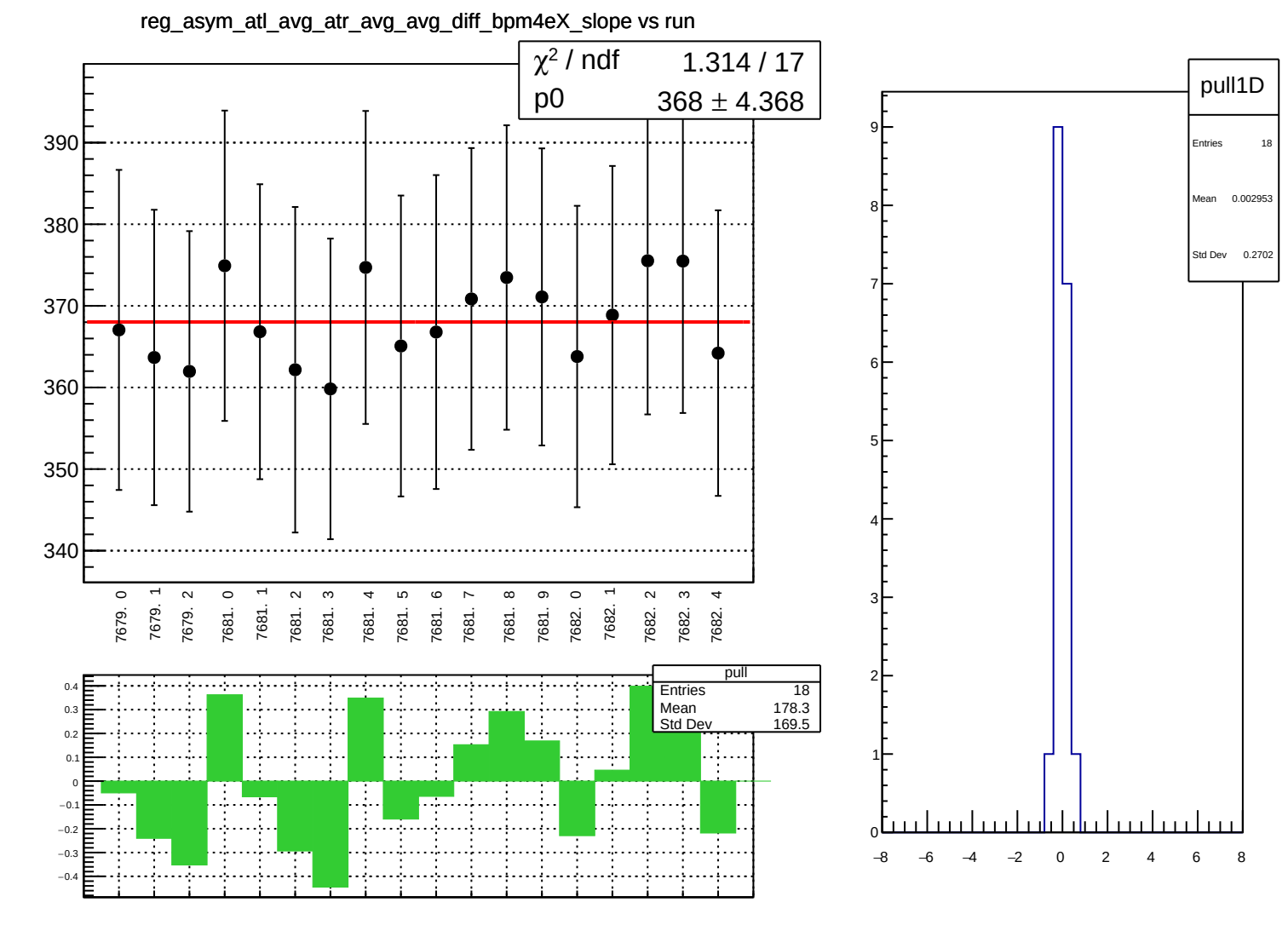

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.375 / 17
p0 63.22 ± 1.797
85
80
75
70
65
60
55
50
45
40
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −1489
Std Dev 1502
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 18
Mean −0.0005377
Std Dev 0.7217
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

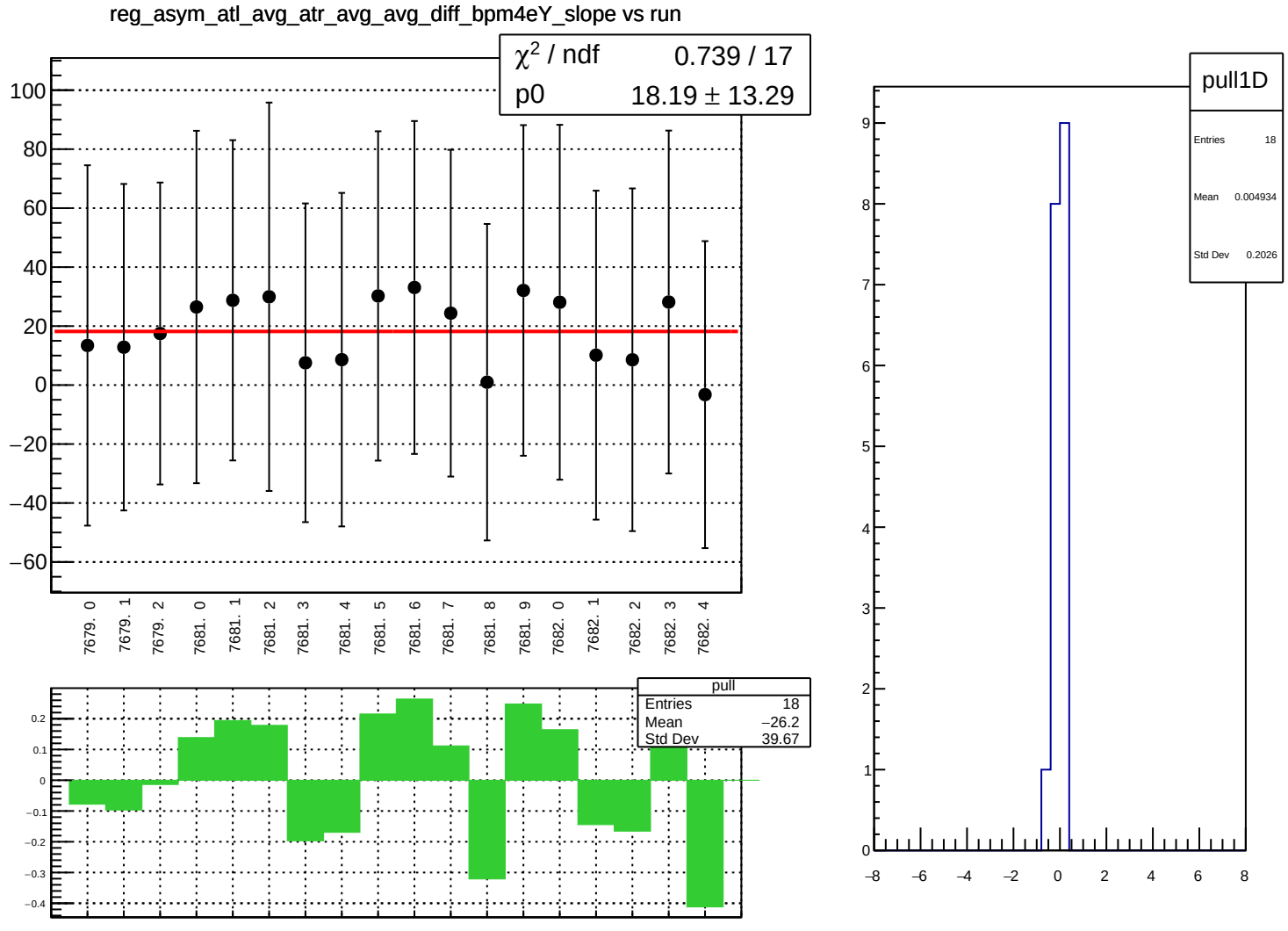

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.933 / 17
p0 −13.38 ± 5.473
40
20
0
−20
−40
−60
−80
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −2266
Std Dev 2273
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 18
Mean 0.000692
Std Dev 0.7429
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

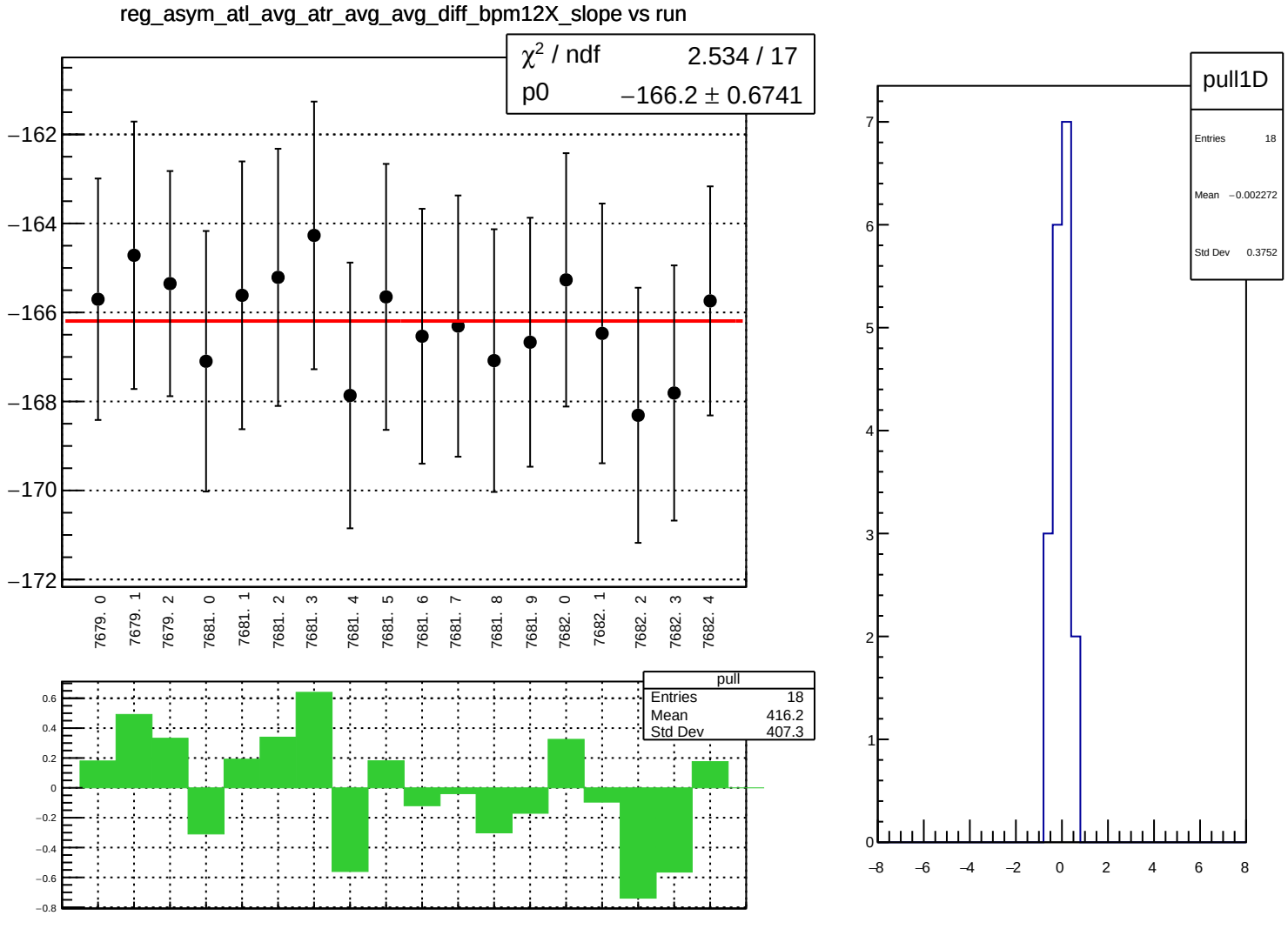

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 12.9 / 17
p0 5.9 ± 0.2765
pull
Entries 18
Mean 278.7
Std Dev 267.1
pull1D
Entries 18
Mean −0.006188
Std Dev 0.8465

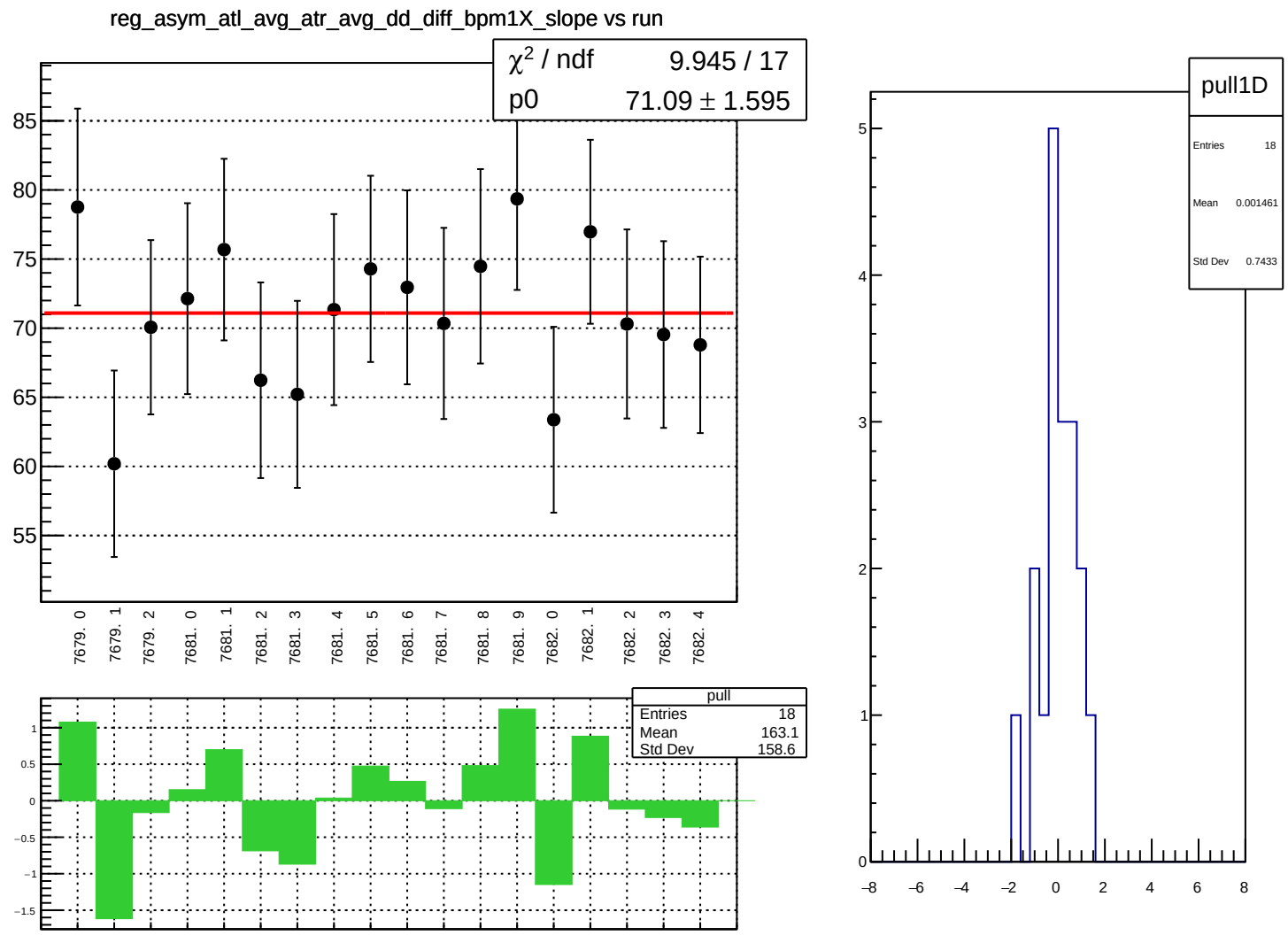

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 1.298 / 17
p0 −384.5 ± 5.392
−350
−360
−370
−380
−390
−400
−410
−420
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 202
Std Dev 193.3
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 18
Mean −0.002909
Std Dev 0.2685
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

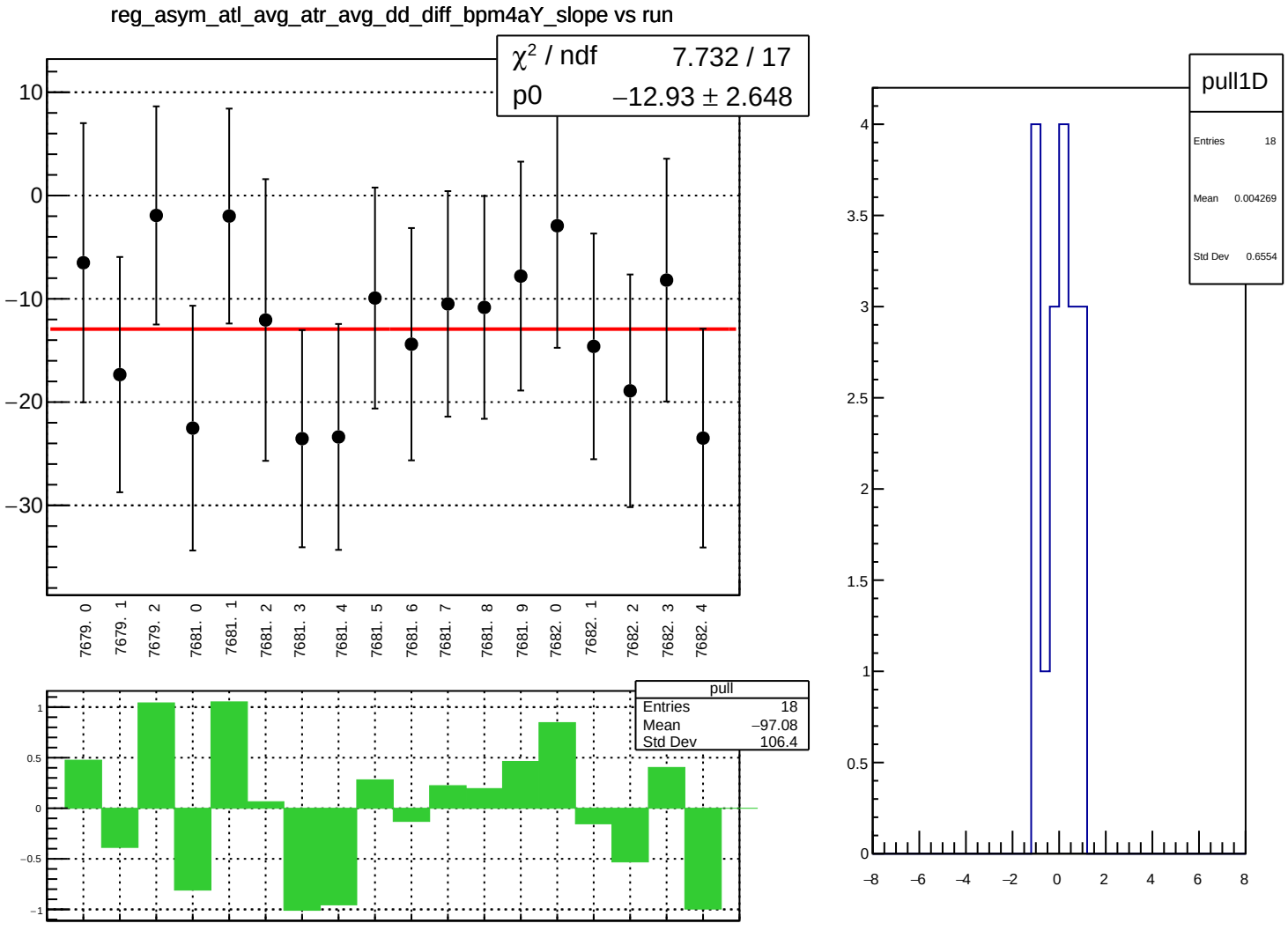

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.7012 / 17
p0 42.9 ± 8.944
100
80
60
40
20
0
−20
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −42.35
Std Dev 55.1
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 18
Mean −0.004091
Std Dev 0.1973
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

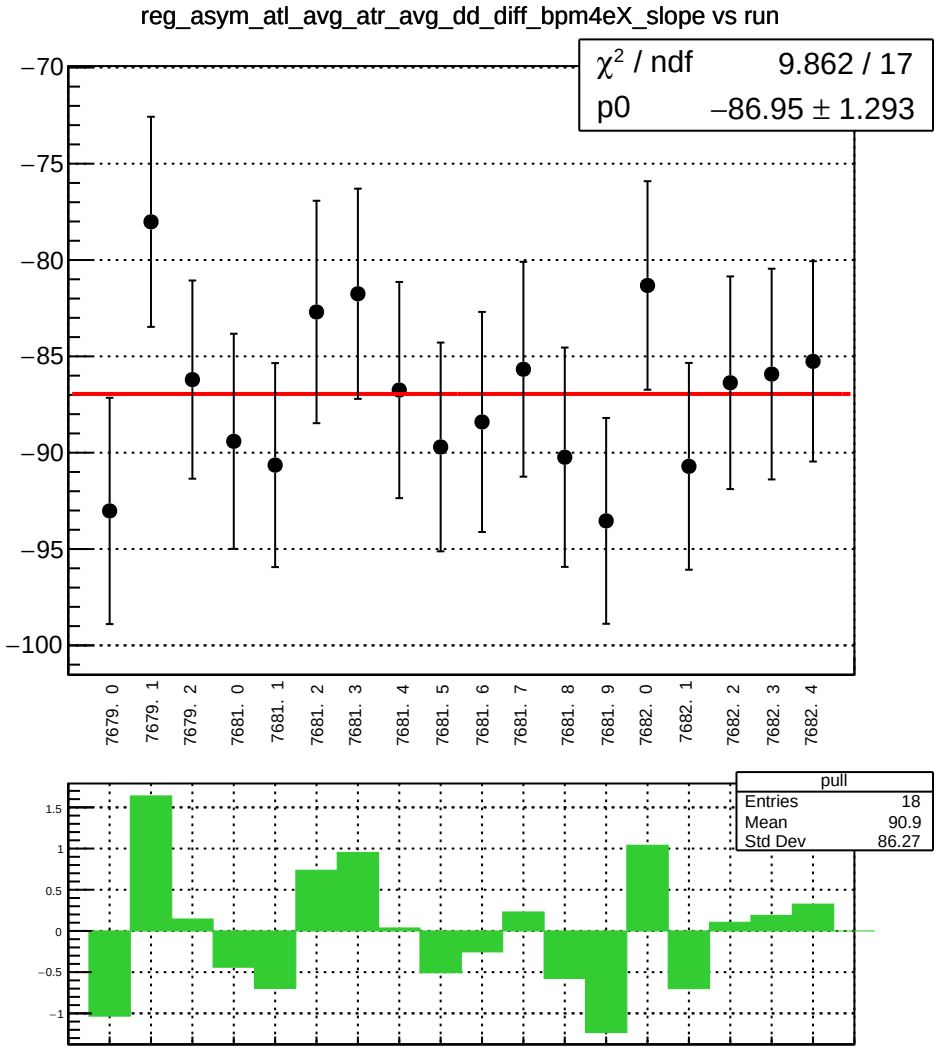

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.314 / 17
p0 368 ± 4.368
390
380
370
360
350
340
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 178.3
Std Dev 169.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 18
Mean 0.002953
Std Dev 0.2702
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

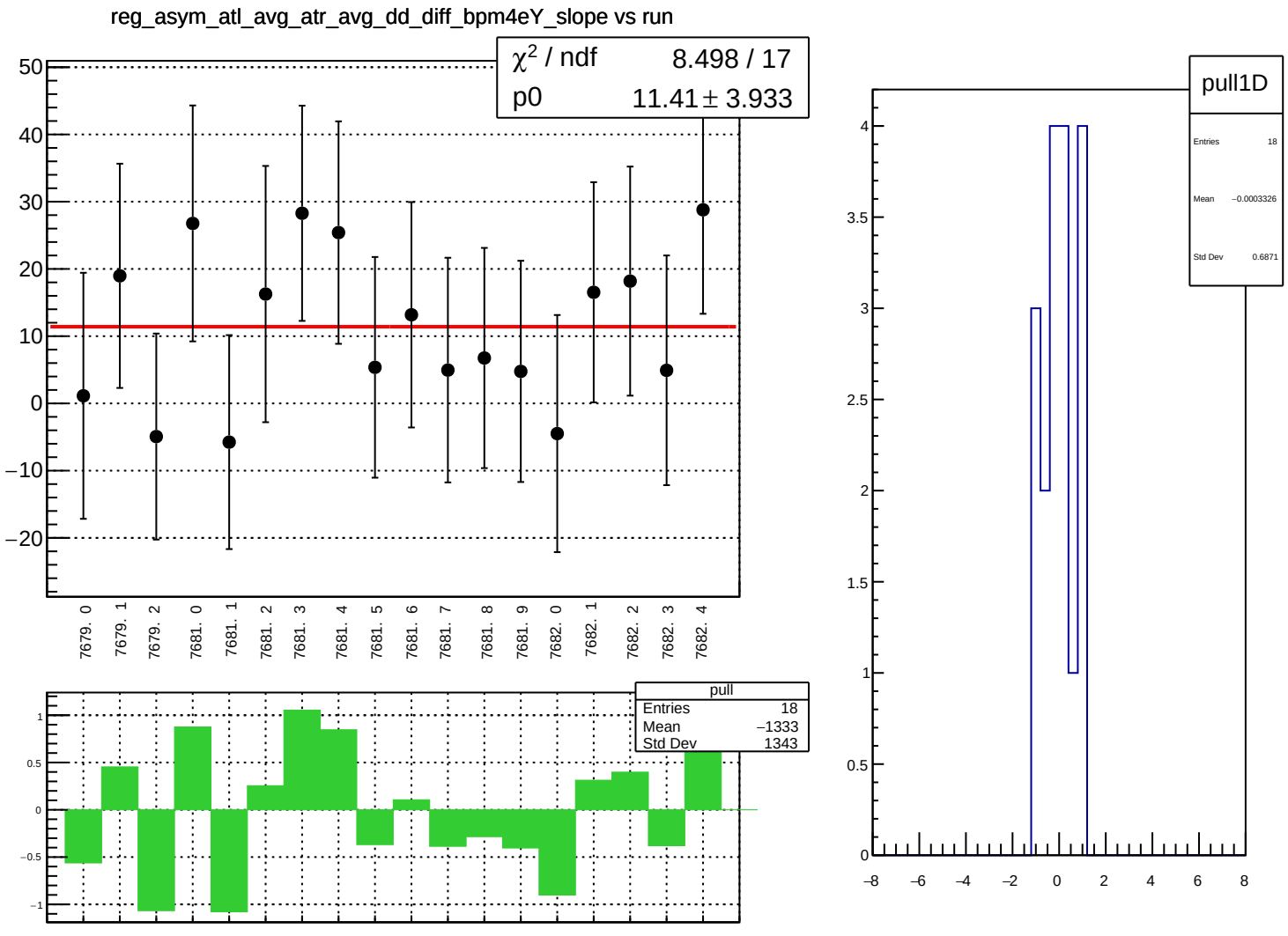

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.739 / 17
p0 18.19 ± 13.29
100
80
60
40
20
0
−20
−40
−60
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −26.2
Std Dev 39.67
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 18
Mean 0.004934
Std Dev 0.2026
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

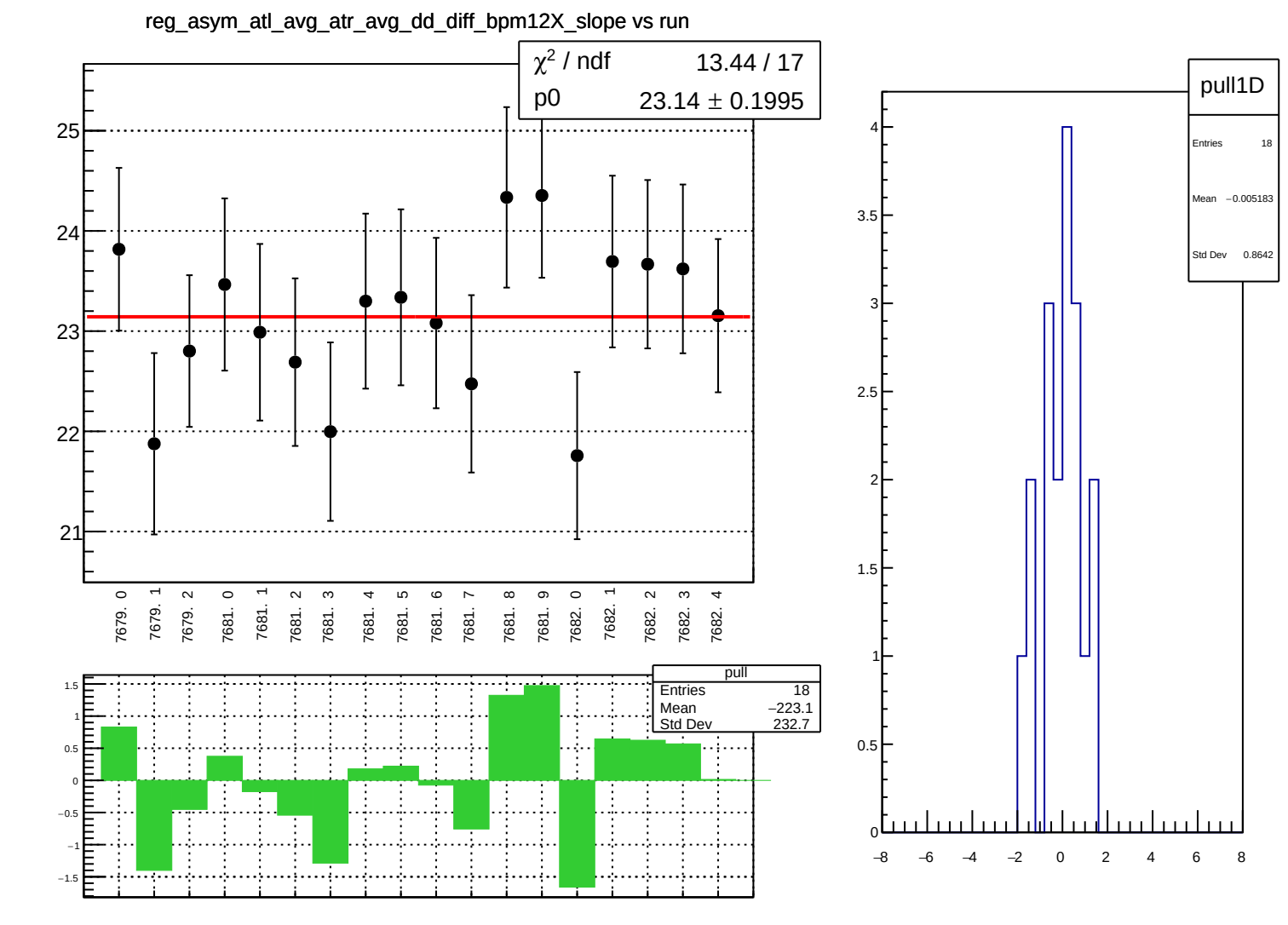

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 2.534 / 17
p0 −166.2 ± 0.6741
−162
−164
−166
−168
−170
−172
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 416.2
Std Dev 407.3
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 18
Mean −0.002272
Std Dev 0.3752
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

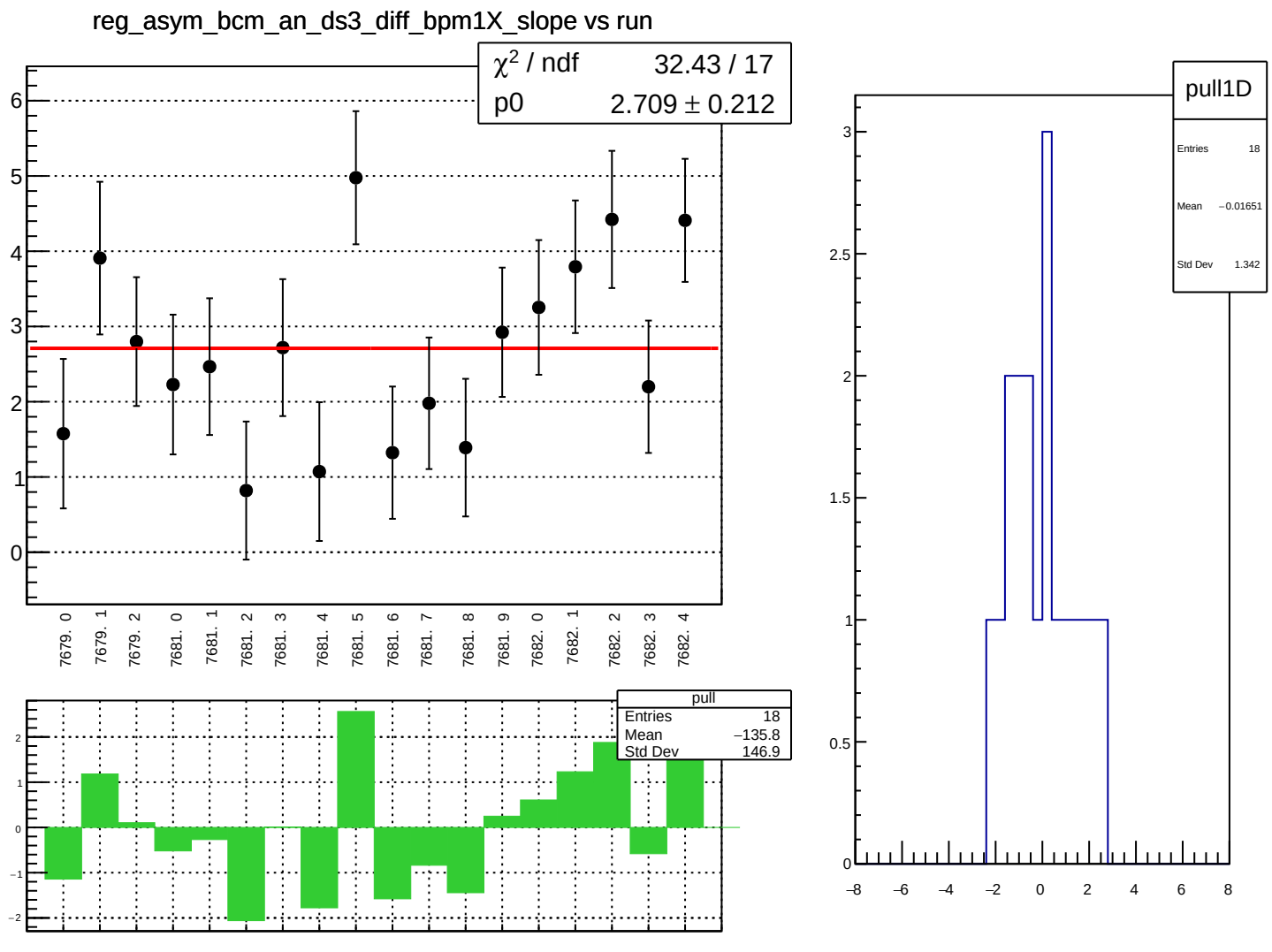

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 9.945 / 17
p0 71.09 ± 1.595
85
80
75
70
65
60
55
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 163.1
Std Dev 158.6
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 18
Mean 0.001461
Std Dev 0.7433
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

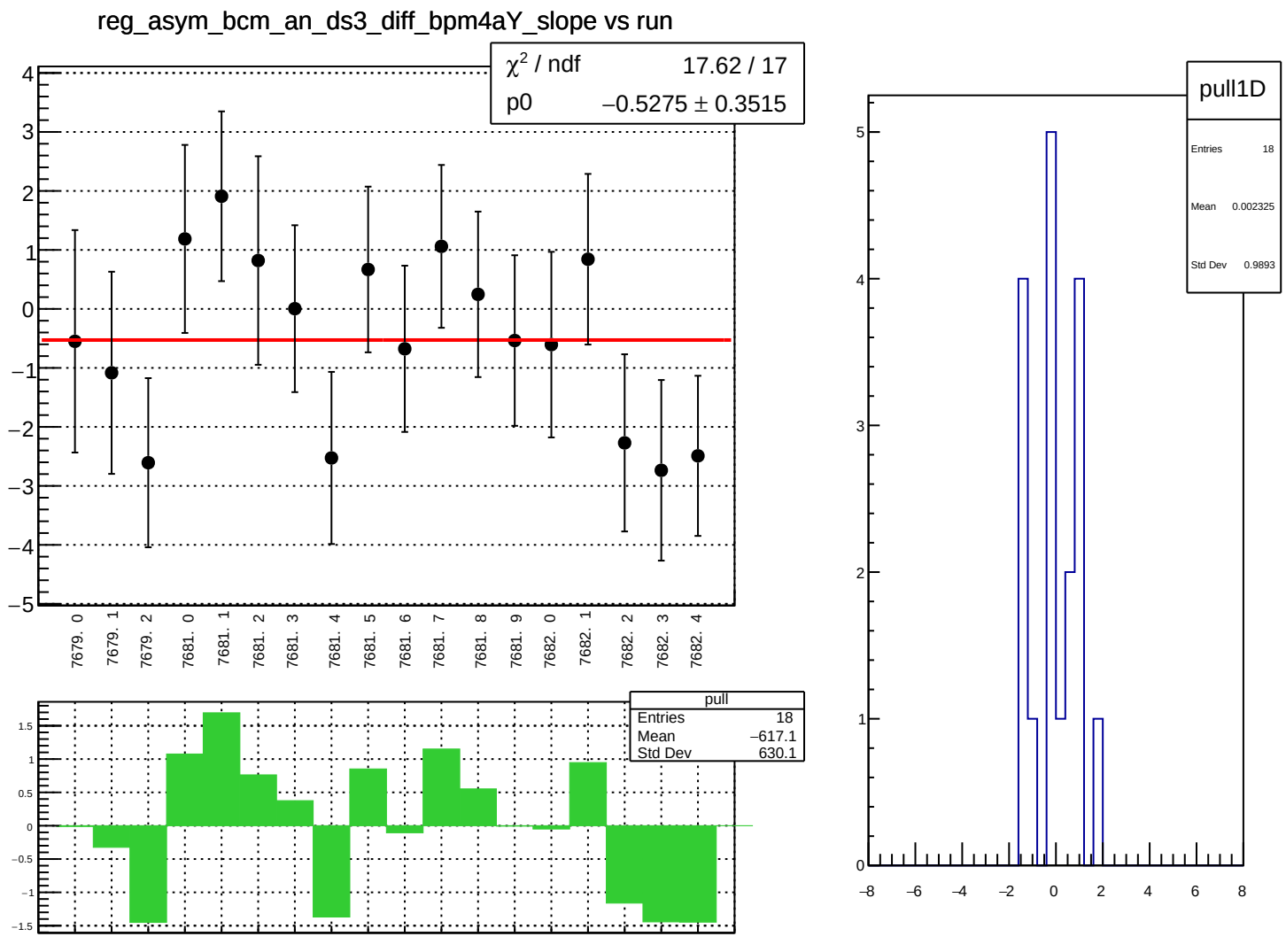

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.732 / 17
p0 −12.93 ± 2.648
10
0
−10
−20
−30
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −97.08
Std Dev 106.4
1
0.5
0
−0.5
−1
pull1D
Entries 18
Mean 0.004269
Std Dev 0.6554
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

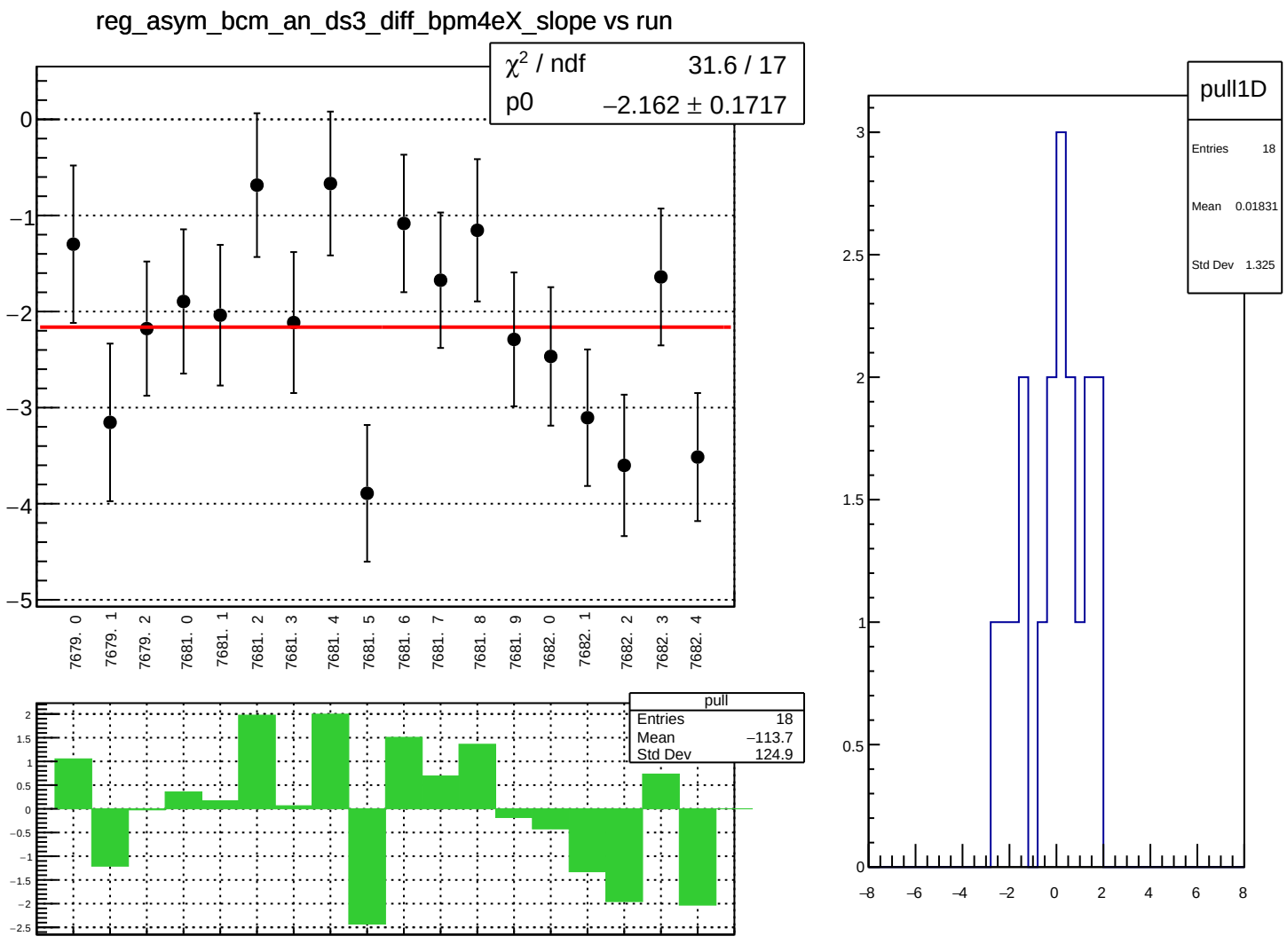

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.862 / 17
p0 −86.95 ± 1.293
−70
−75
−80
−85
−90
−95
−100
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 90.9
Std Dev 86.27
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 18
Mean −0.002368
Std Dev 0.7402
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

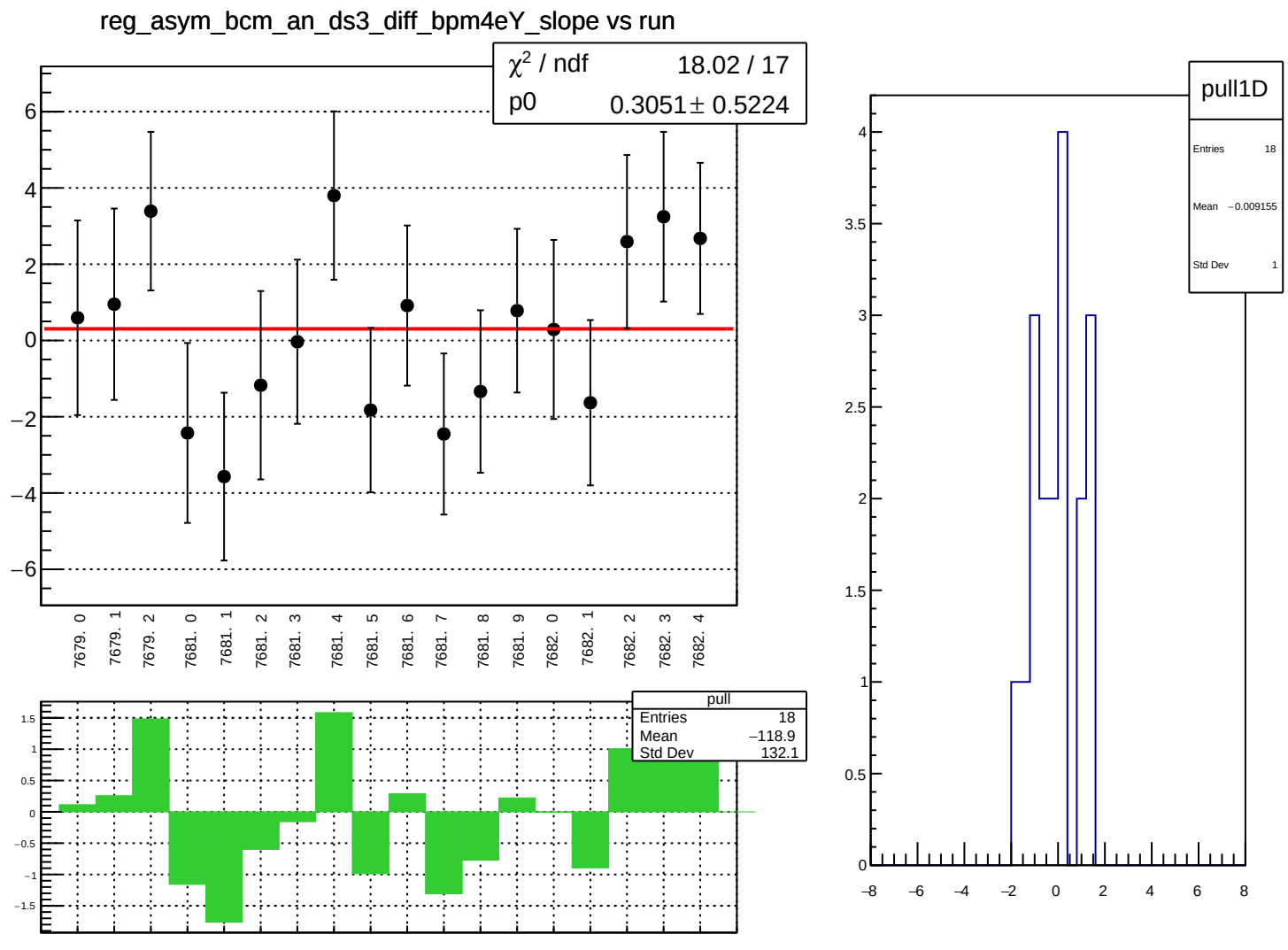

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.498 / 17
p0 11.41 ± 3.933
50
40
30
20
10
0
−10
−20
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −1333
Std Dev 1343
1
0.5
0
−0.5
−1
pull1D
Entries 18
Mean −0.0003326
Std Dev 0.6871
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

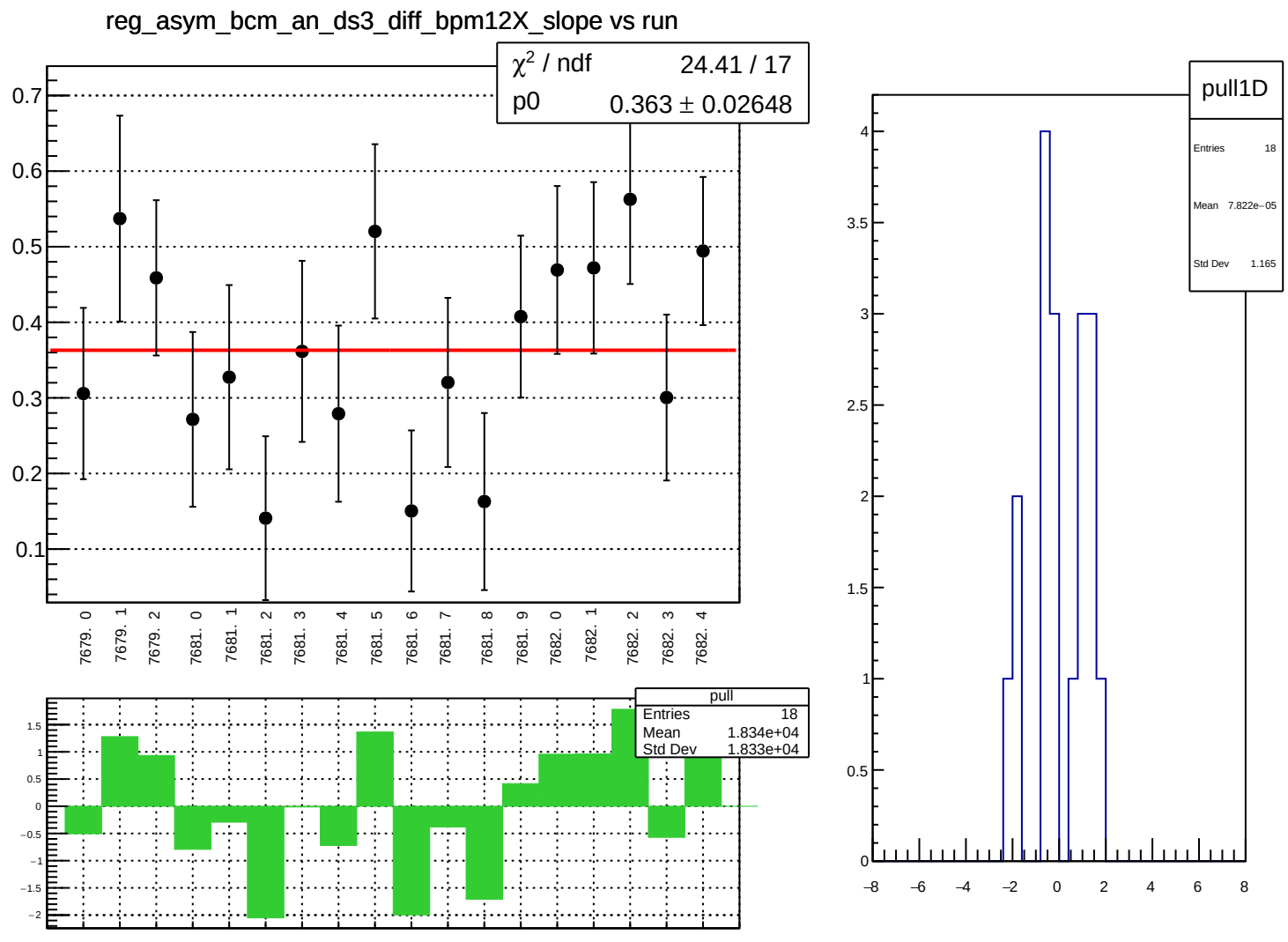

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 13.44 / 17
p0 23.14 ± 0.1995
25
24
23
22
21
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −223.1
Std Dev 232.7
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 18
Mean −0.005183
Std Dev 0.8642
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

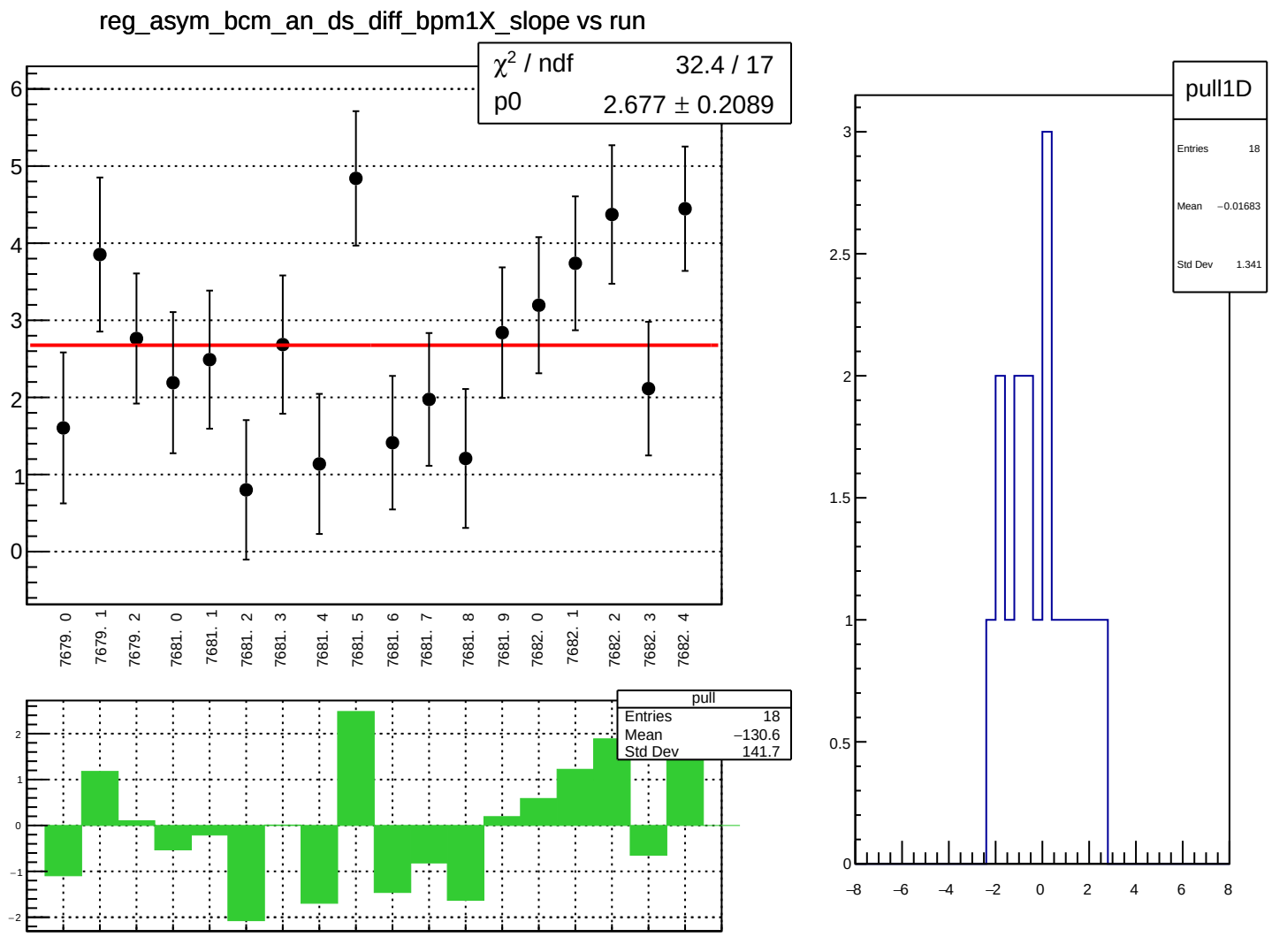

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 32.43 / 17
p0 2.709 ± 0.212
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −135.8
Std Dev 146.9
pull1D
Entries 18
Mean −0.01651
Std Dev 1.342

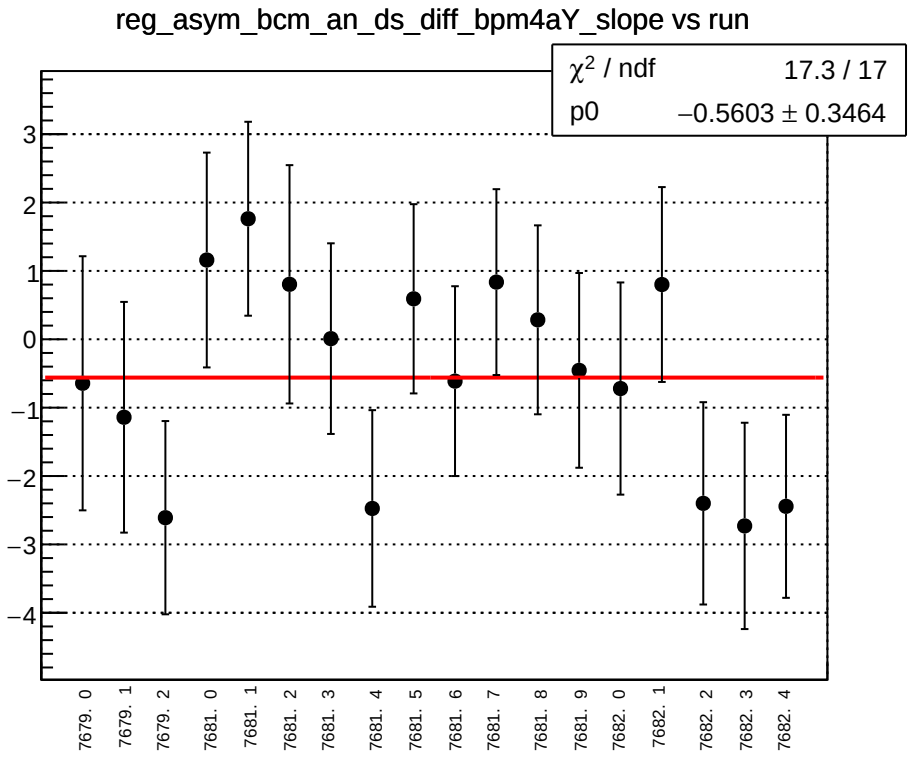

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 17.62 / 17
p0 −0.5275 ± 0.3515
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −617.1
Std Dev 630.1
pull1D
Entries 18
Mean 0.002325
Std Dev 0.9893

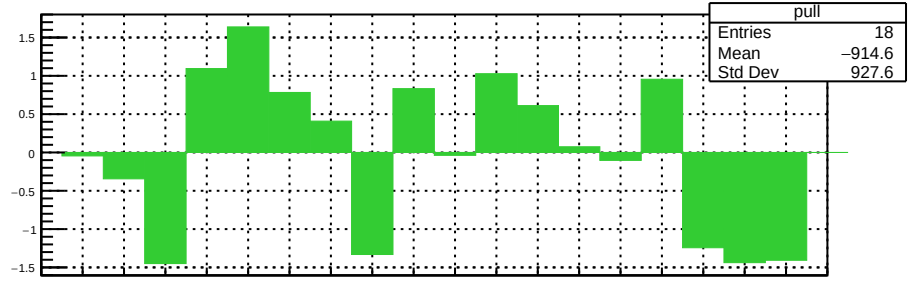

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 31.6 / 17
p0 −2.162 ± 0.1717
0
−1
−2
−3
−4
−5
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −113.7
Std Dev 124.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 18
Mean 0.01831
Std Dev 1.325
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

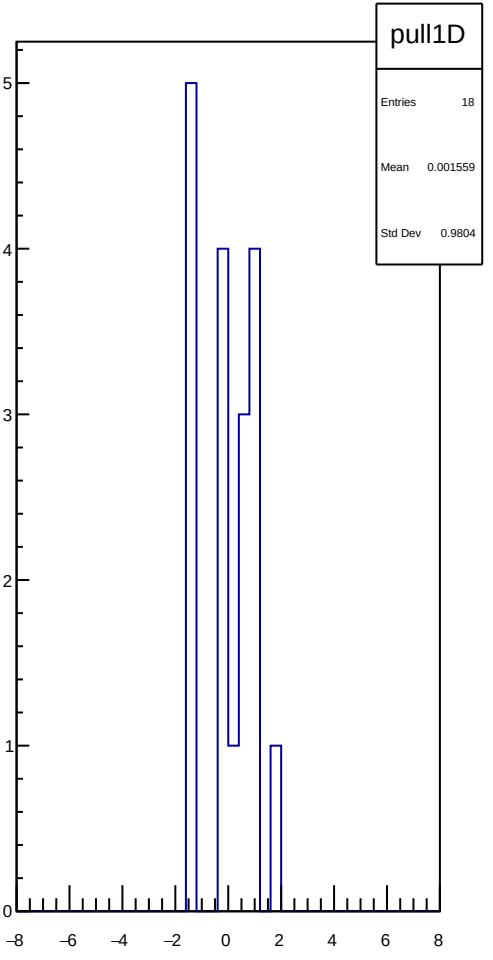

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 18.02 / 17
p0 0.3051 ± 0.5224
6
4
2
0
−2
−4
−6
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −118.9
Std Dev 132.1
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 18
Mean −0.009155
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

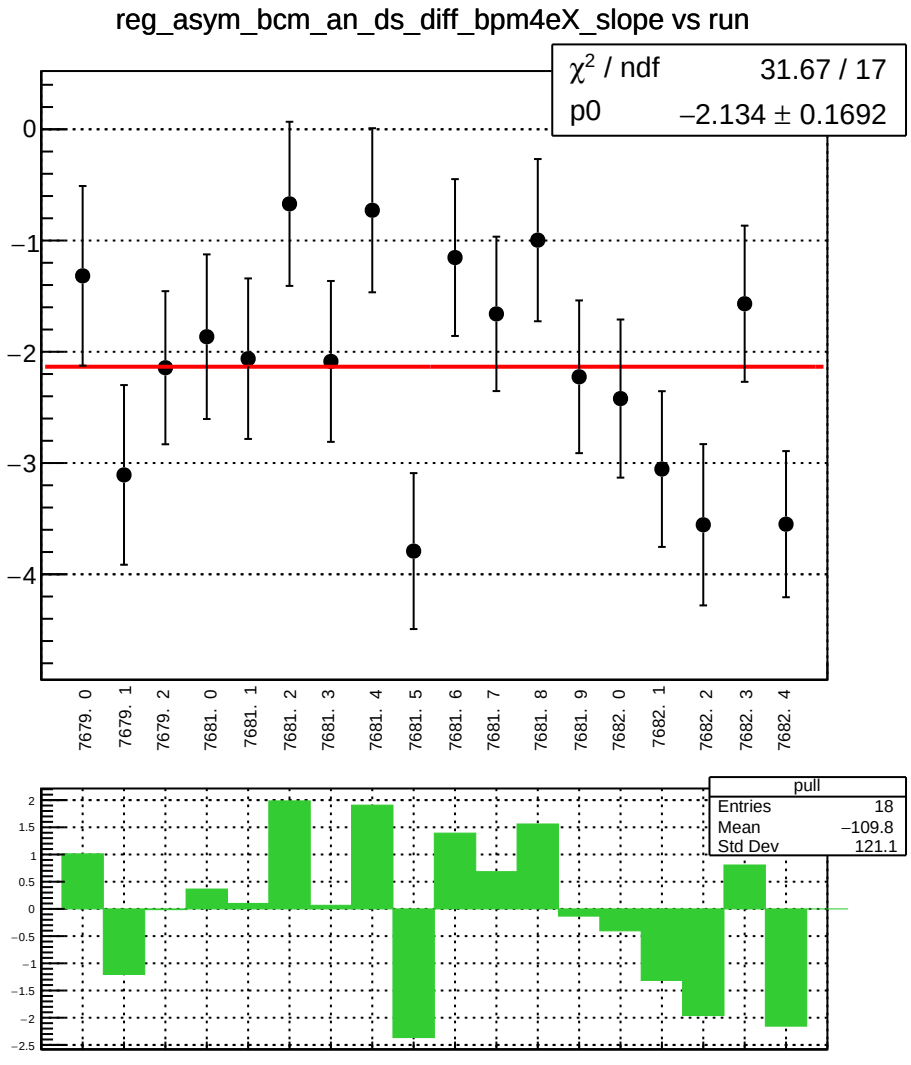

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 24.41 / 17
p0 0.363 ± 0.02648
0.7
0.6
0.5
0.4
0.3
0.2
0.1
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean 1.834e+04
Std Dev 1.833e+04
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 18
Mean 7.822e−05
Std Dev 1.165
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

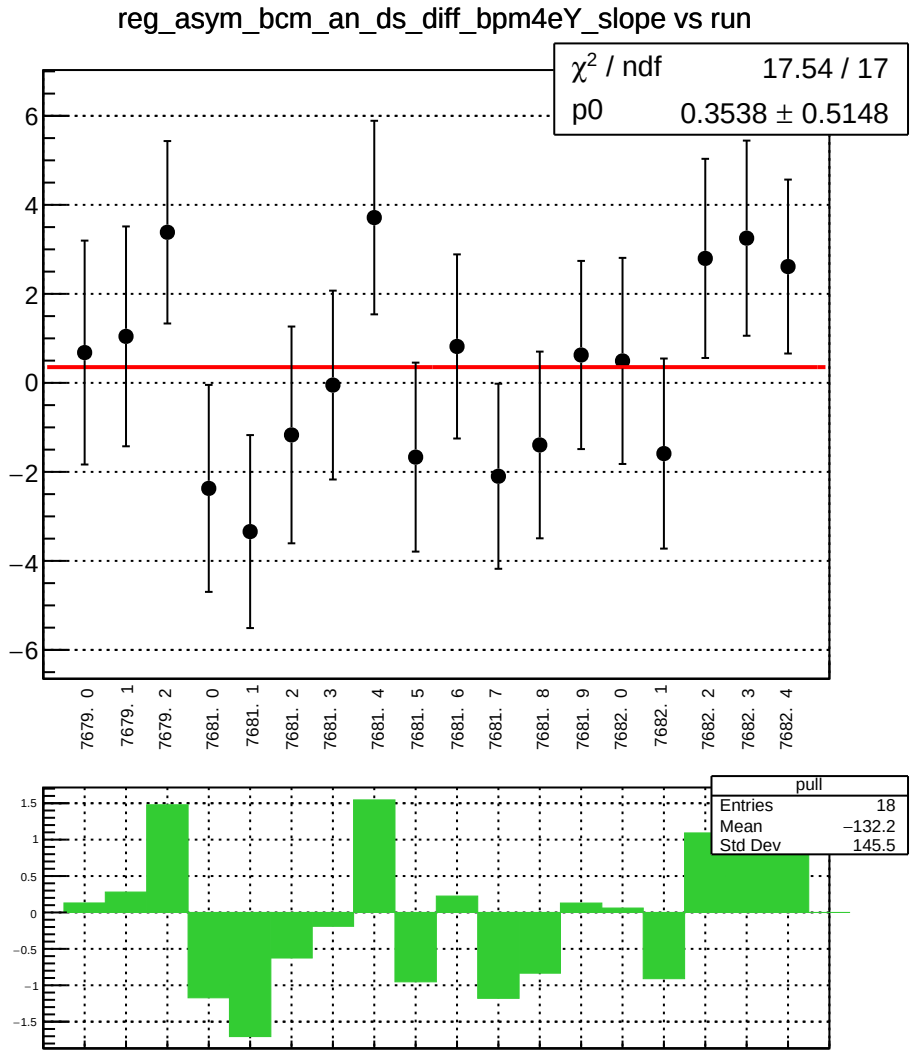

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 32.4 / 17
p0 2.677 ± 0.2089
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −130.6
Std Dev 141.7
pull1D
Entries 18
Mean −0.01683
Std Dev 1.341

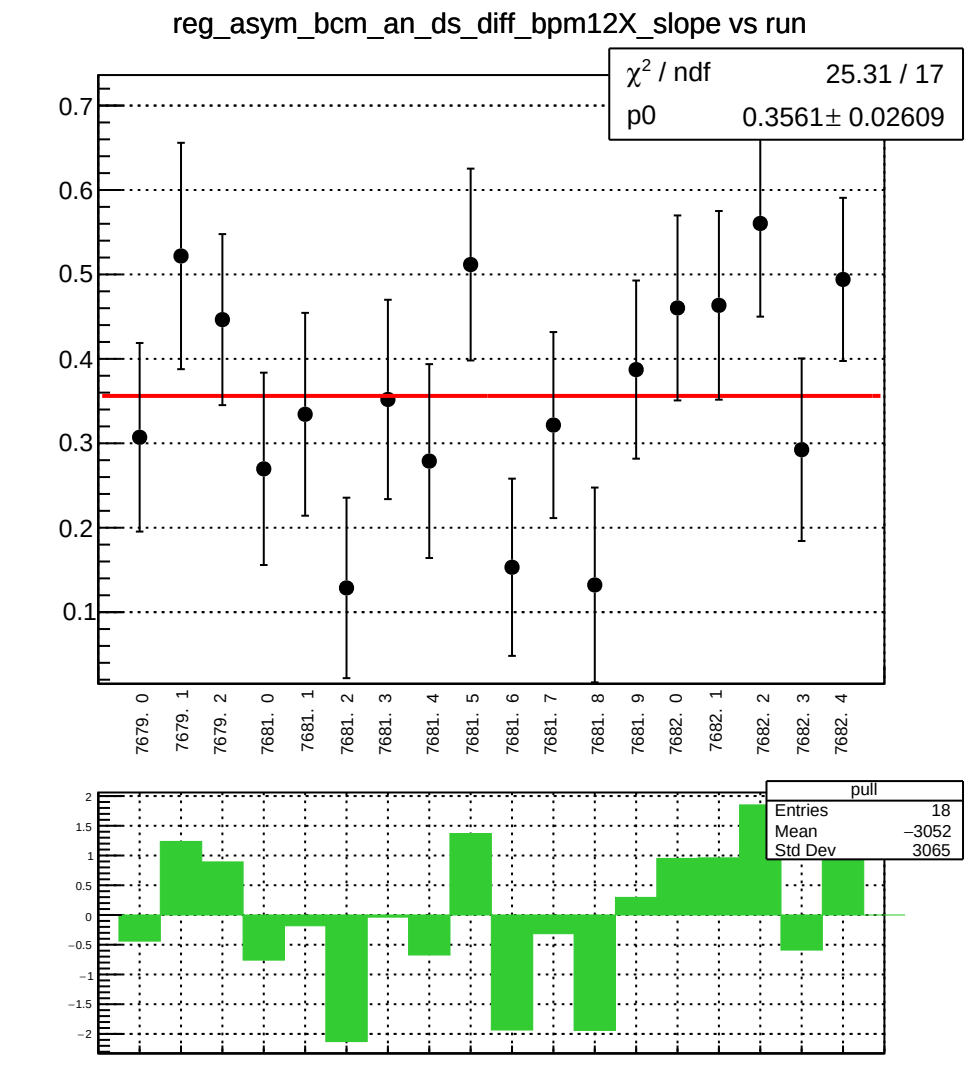

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 17.3 / 17
p0 −0.5603 ± 0.3464
3
2
1
0
−1
−2
−3
−4
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

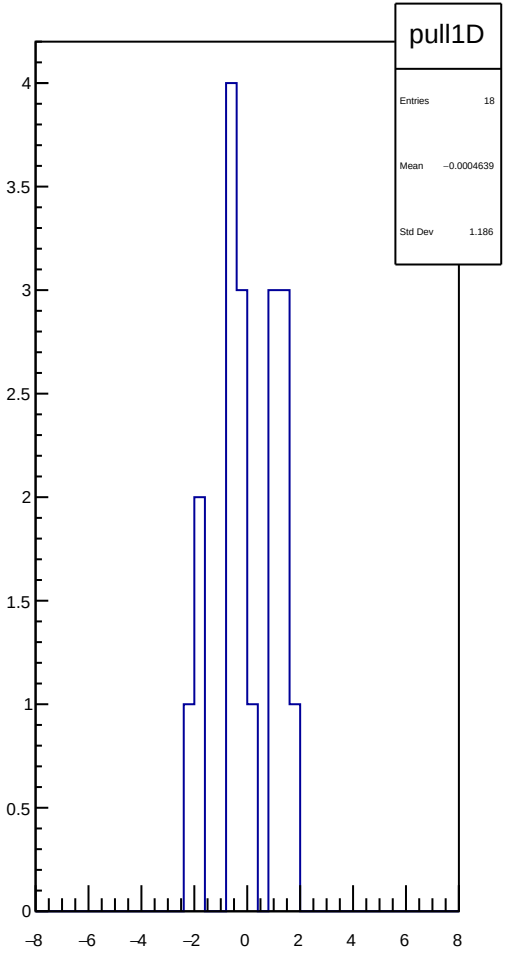

pull
Entries 18
Mean −914.6
Std Dev 927.6
1.5
1
0.5
0
−0.5
−1
−1.5

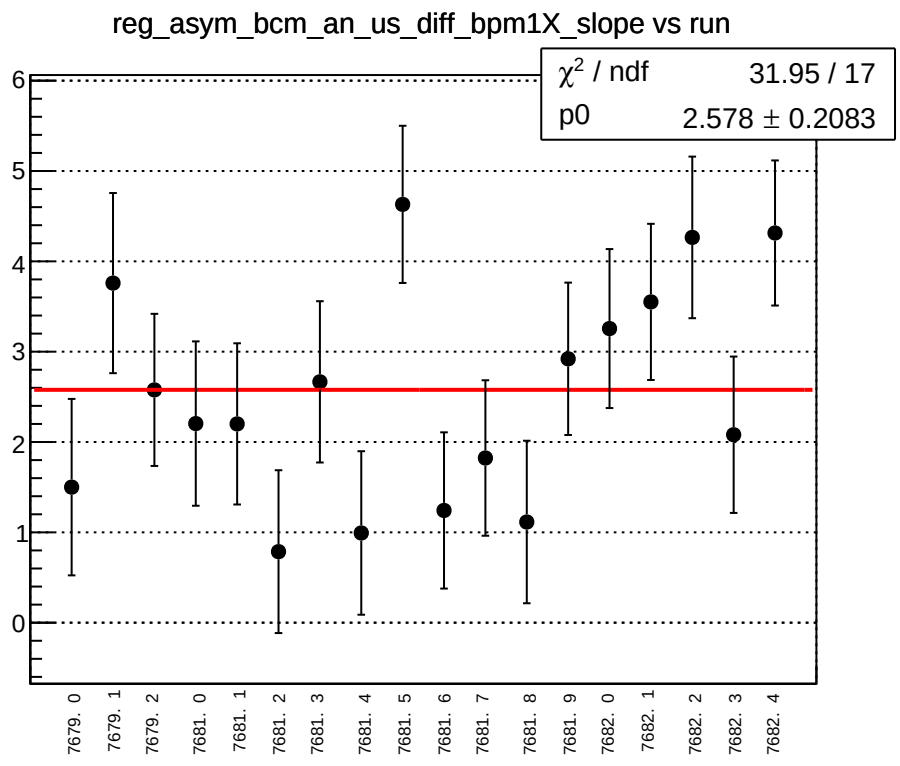

pull1D
Entries 18
Mean 0.001559
Std Dev 0.9804
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

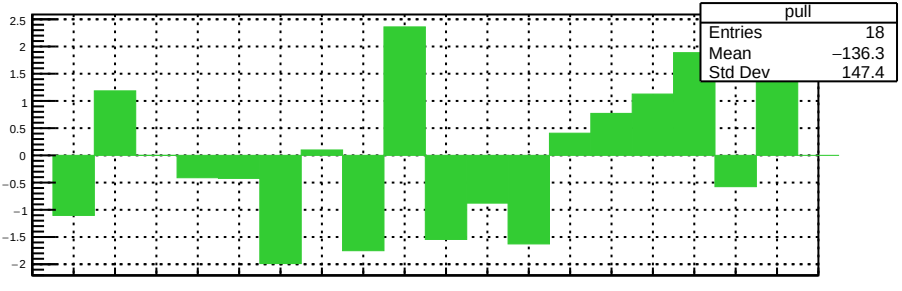

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 31.67 / 17
p0 −2.134 ± 0.1692
0
−1
−2
−3
−4
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −109.8
Std Dev 121.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 18
Mean 0.01853
Std Dev 1.326
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

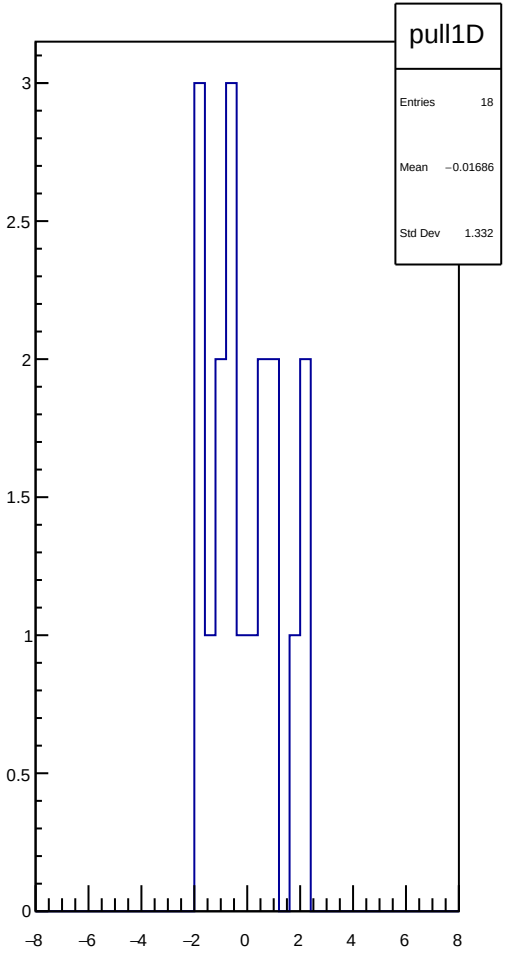

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 17.54 / 17
p0 0.3538 ± 0.5148
6
4
2
0
−2
−4
−6
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −132.2
Std Dev 145.5
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 18
Mean −0.008241
Std Dev 0.9871
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

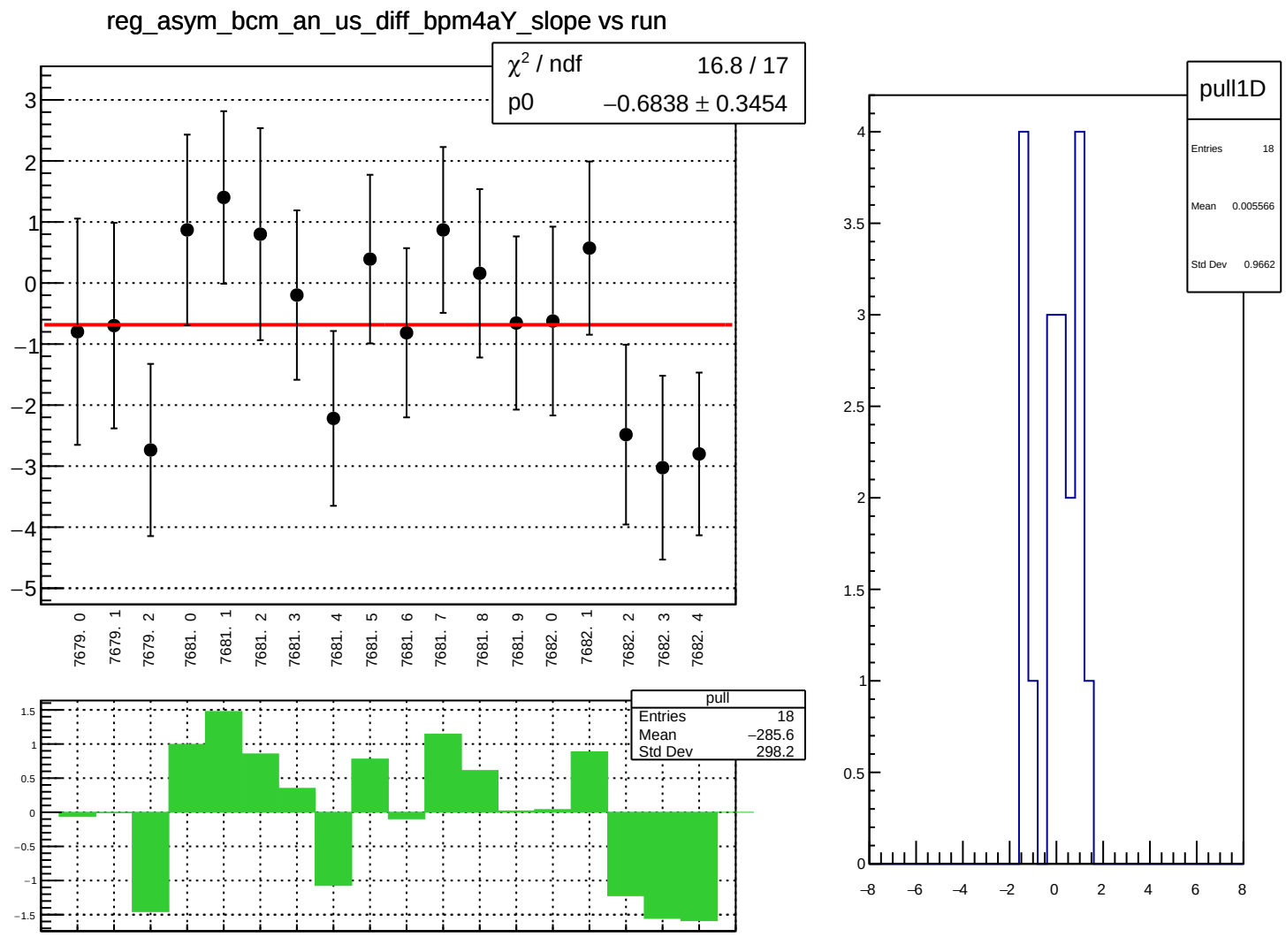

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 25.31 / 17
p0 0.3561± 0.02609
0.7
0.6
0.5
0.4
0.3
0.2
0.1
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −3052
Std Dev 3065
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

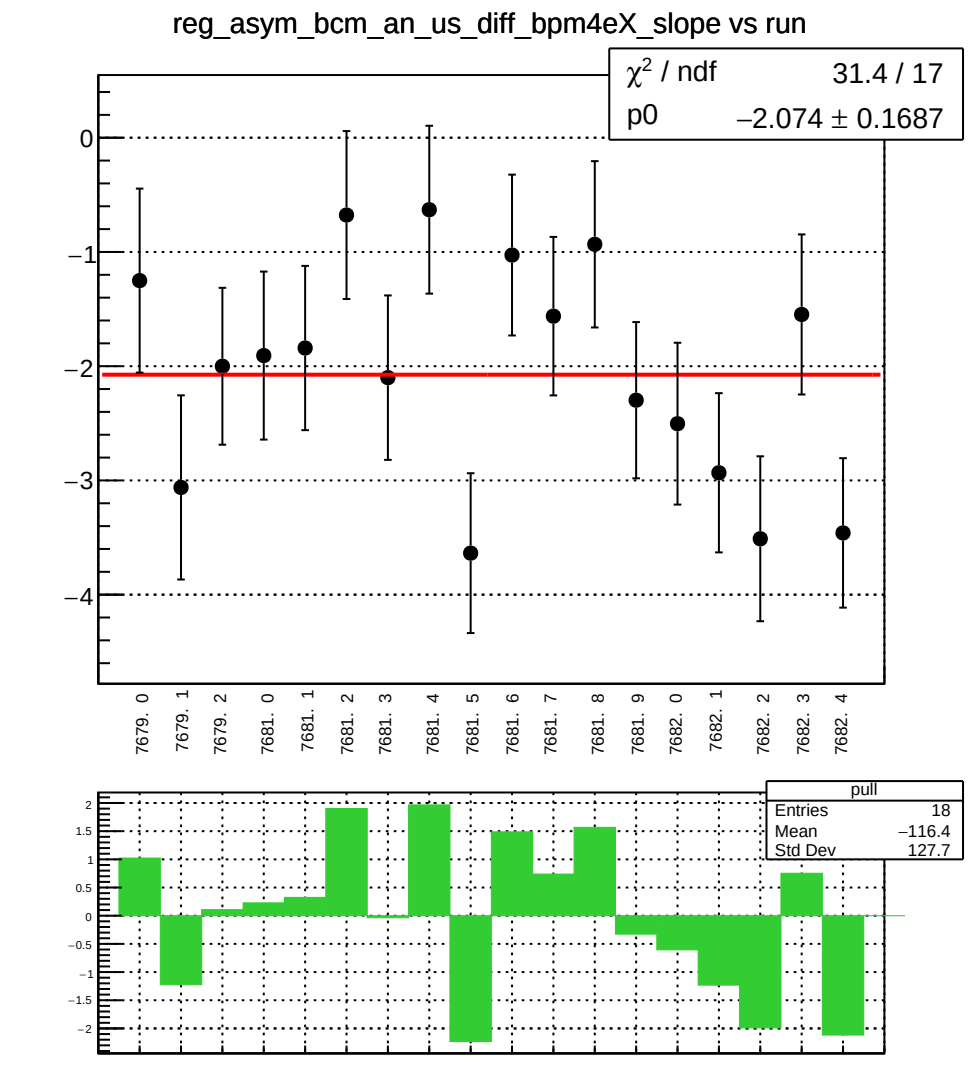

pull1D
Entries 18
Mean −0.0004639
Std Dev 1.186
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

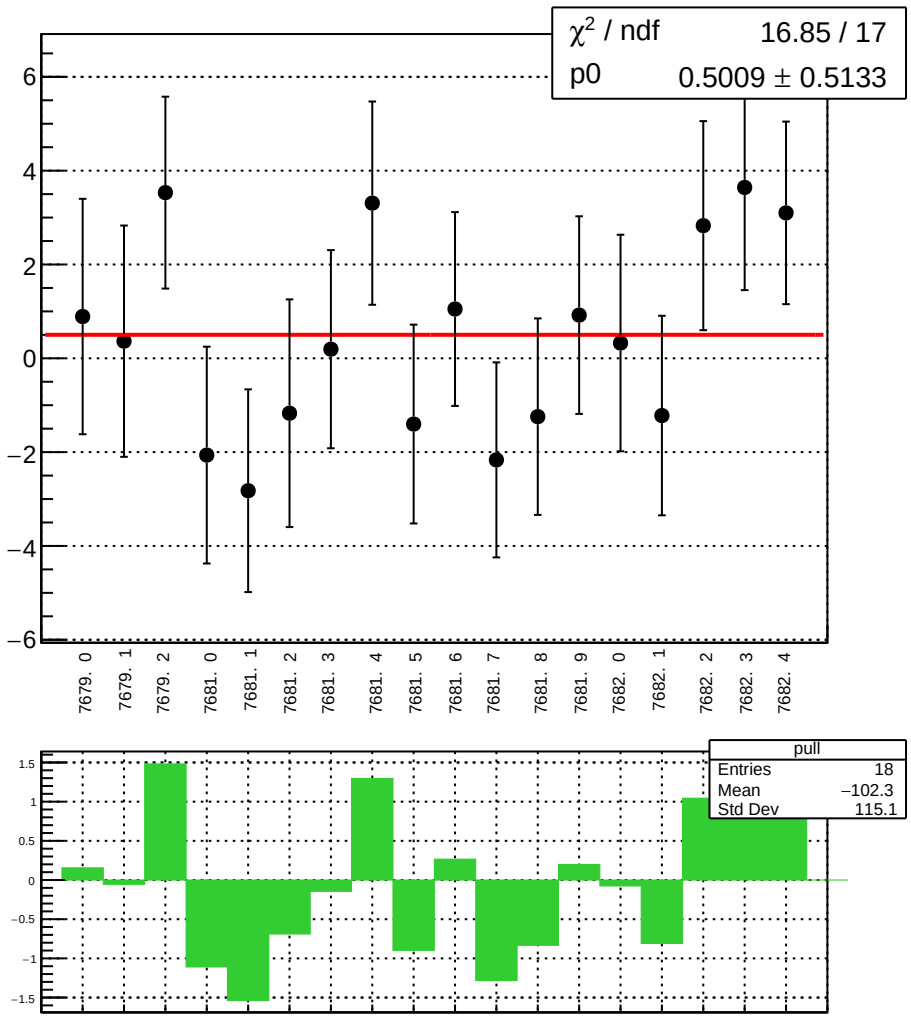

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 31.95 / 17
p0 2.578 ± 0.2083
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4

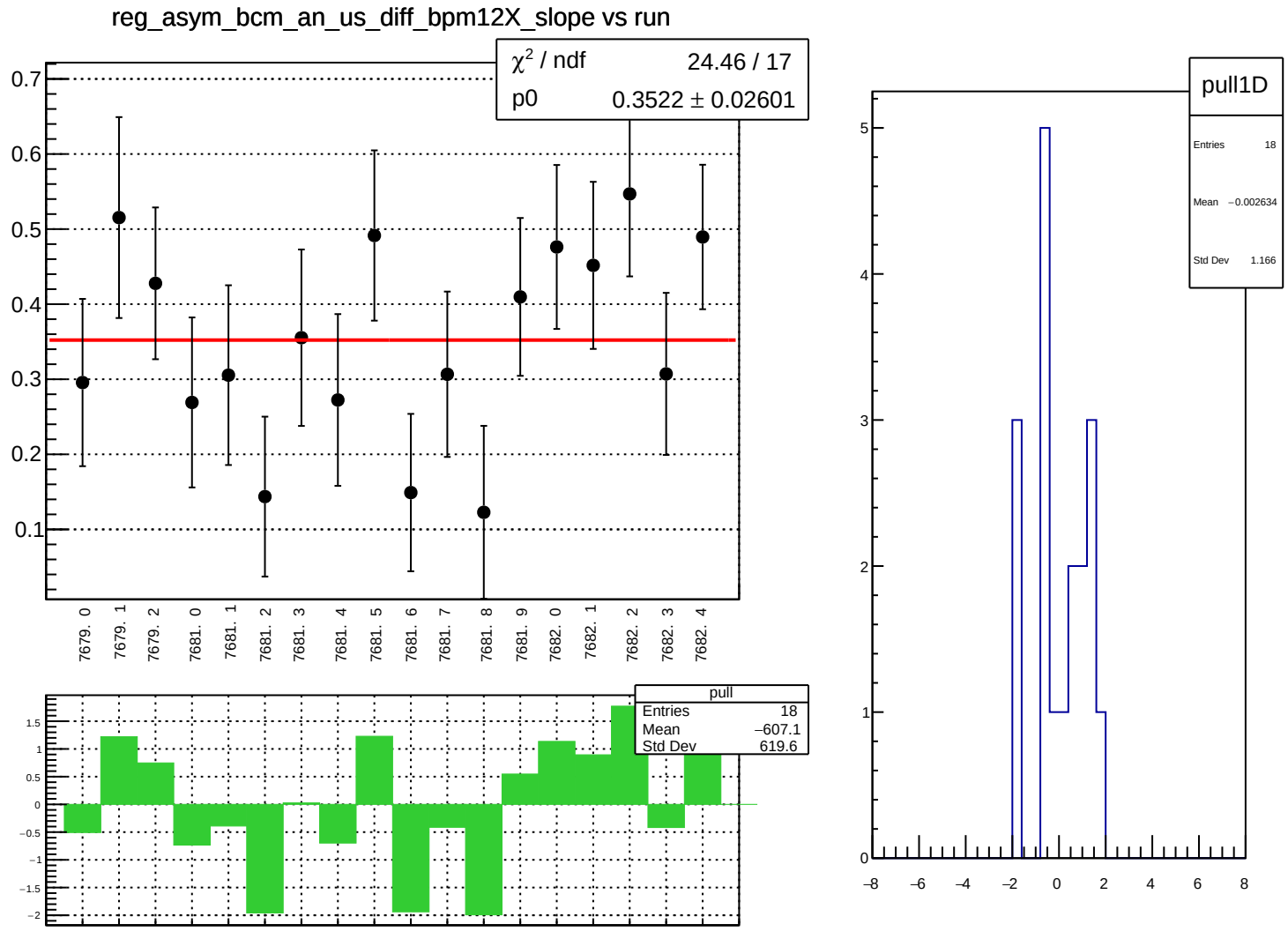

pull
Entries 18
Mean −136.3
Std Dev 147.4

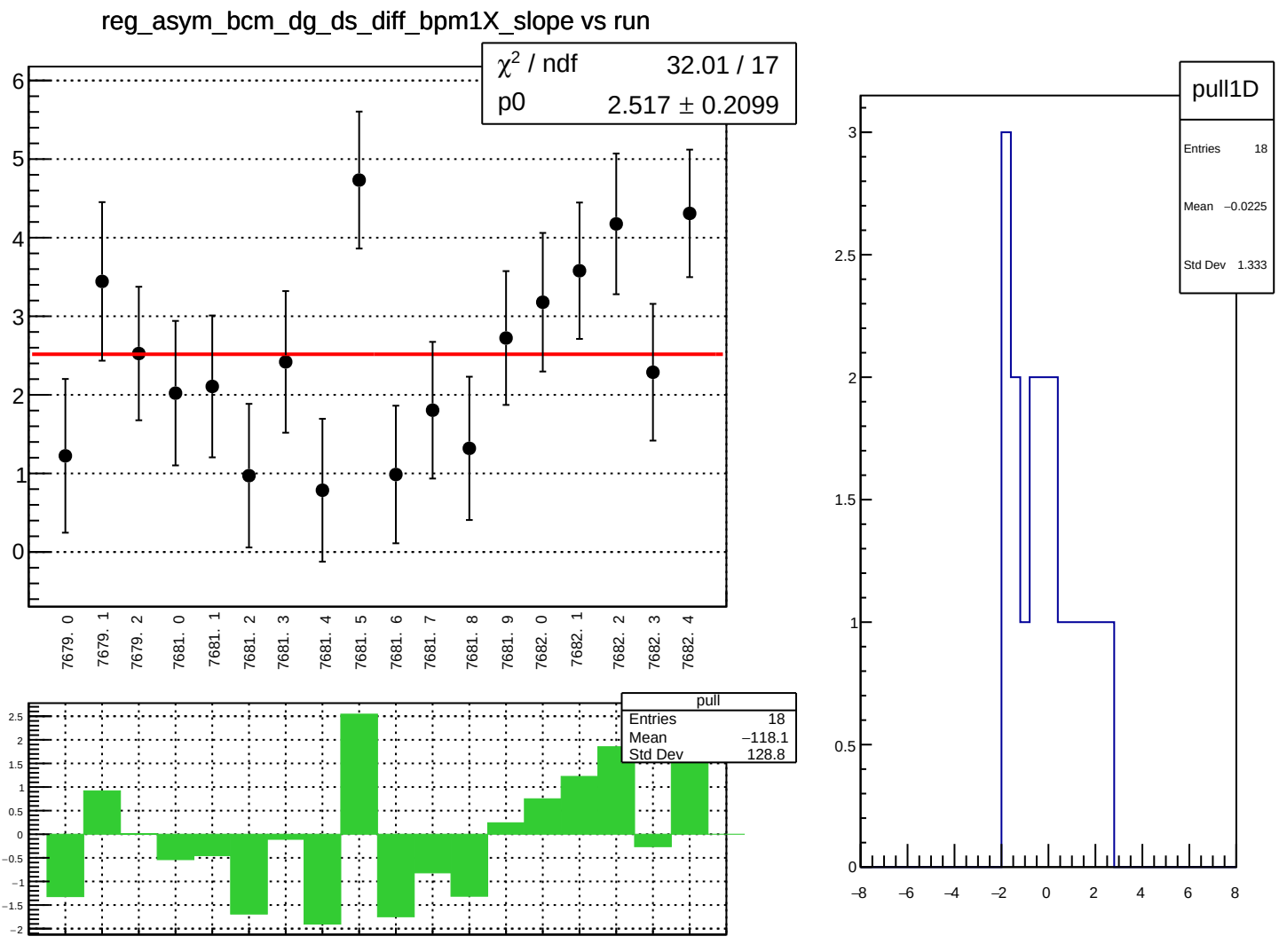

pull1D
Entries 18
Mean −0.01686
Std Dev 1.332

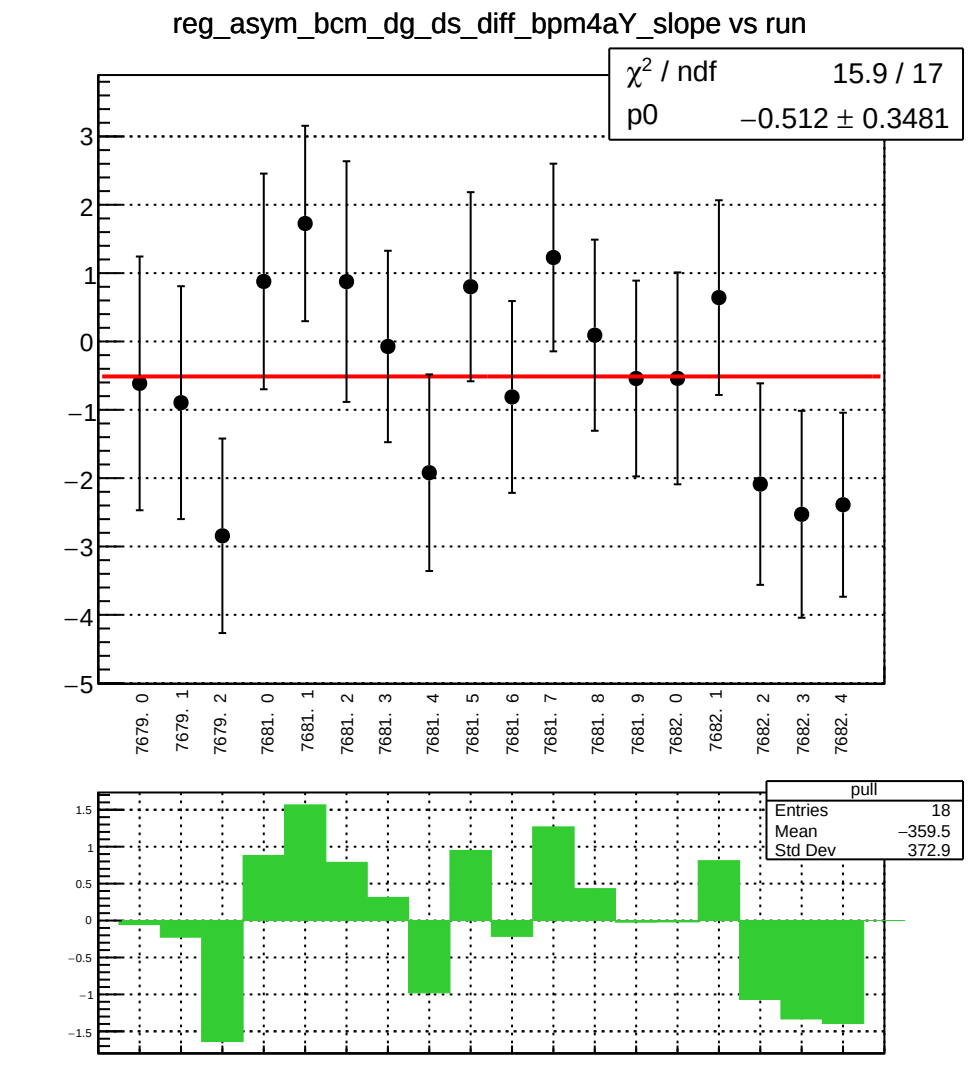

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 16.8 / 17
p0 −0.6838 ± 0.3454
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −285.6
Std Dev 298.2
pull1D
Entries 18
Mean 0.005566
Std Dev 0.9662

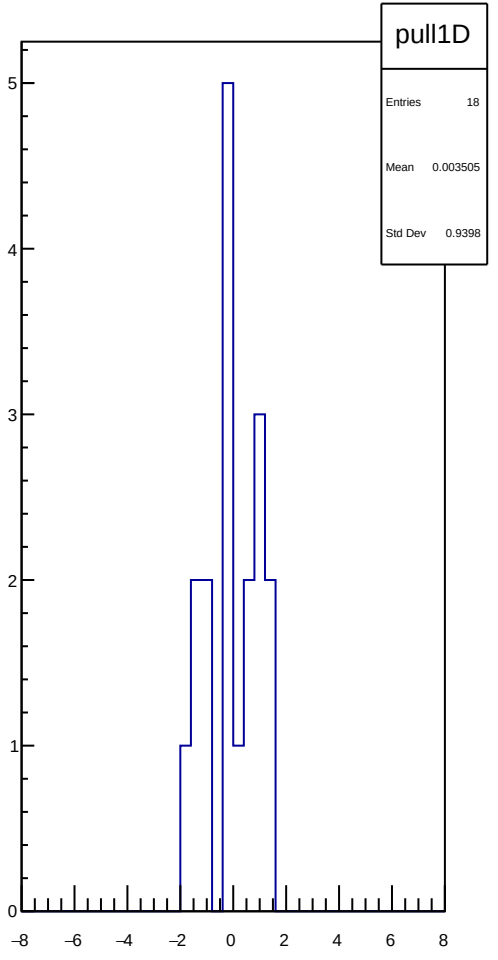

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 31.4 / 17
p0 −2.074 ± 0.1687
0
−1
−2
−3
−4
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −116.4
Std Dev 127.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 18
Mean 0.01837
Std Dev 1.321
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

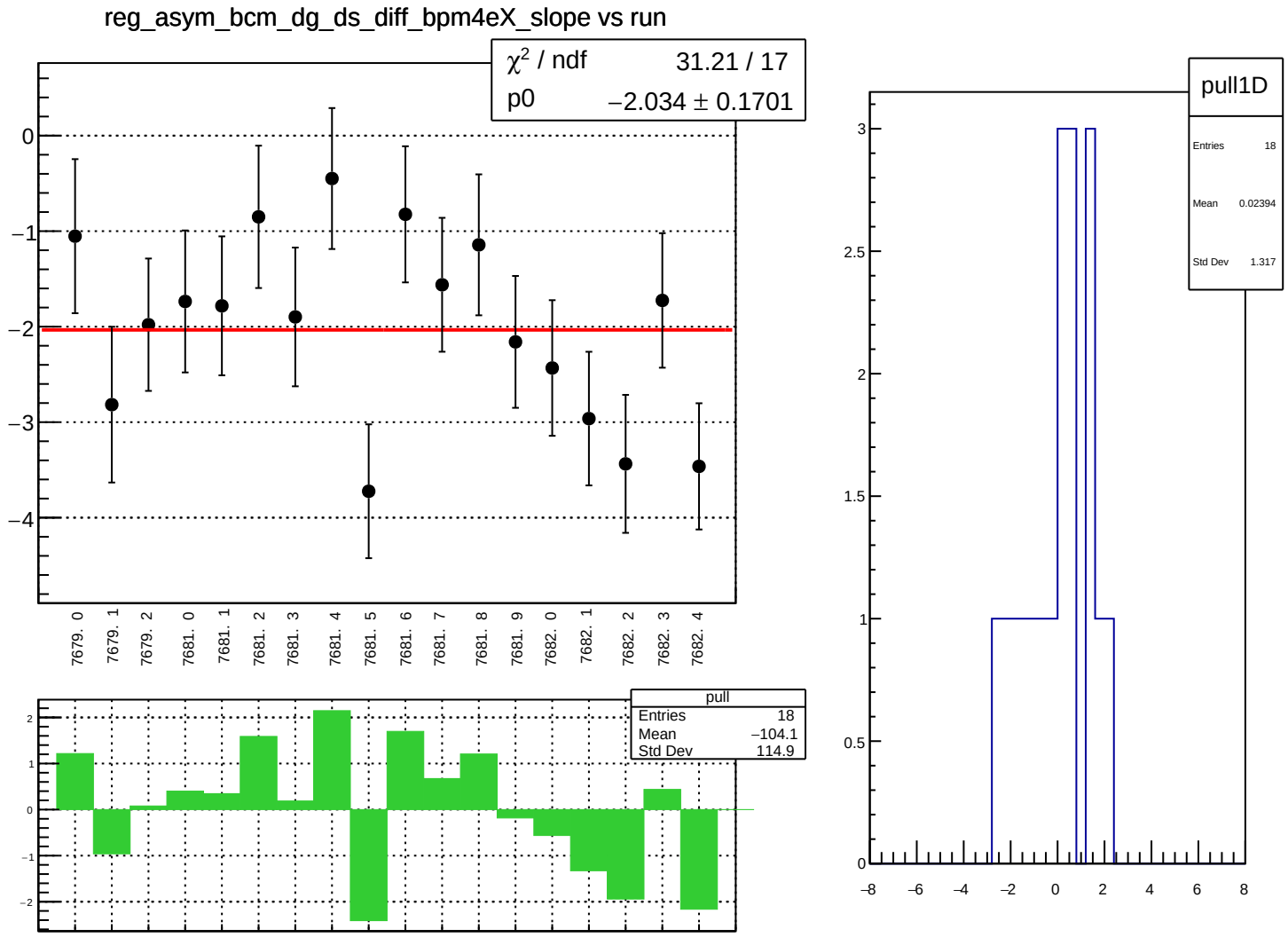

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 16.85 / 17
p0 0.5009 ± 0.5133
6
4
2
0
−2
−4
−6
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −102.3
Std Dev 115.1
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 18
Mean −0.01233
Std Dev 0.9673
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

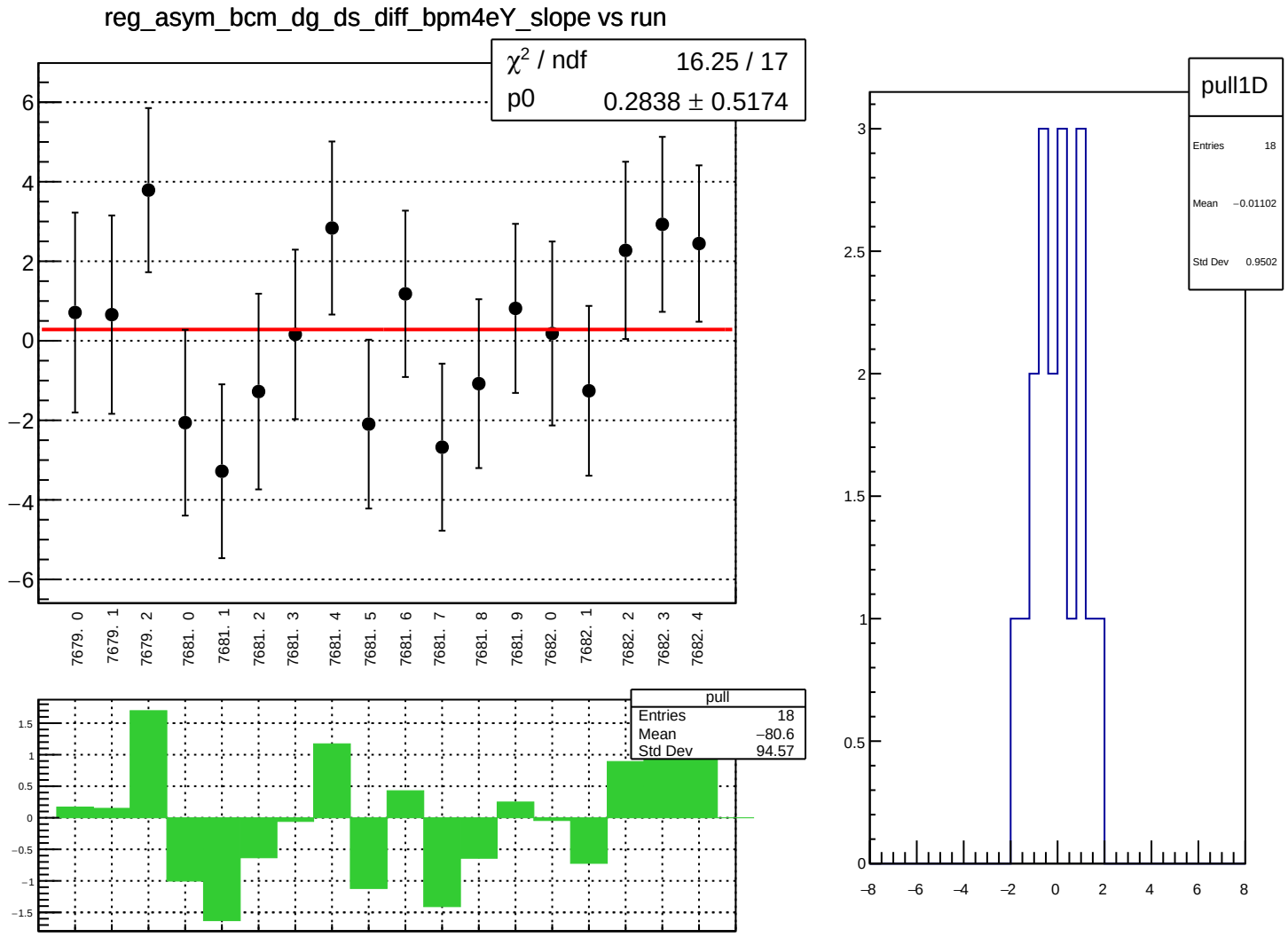

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 24.46 / 17
p0 0.3522 ± 0.02601
0.7
0.6
0.5
0.4
0.3
0.2
0.1
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −607.1
Std Dev 619.6
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 18
Mean −0.002634
Std Dev 1.166
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

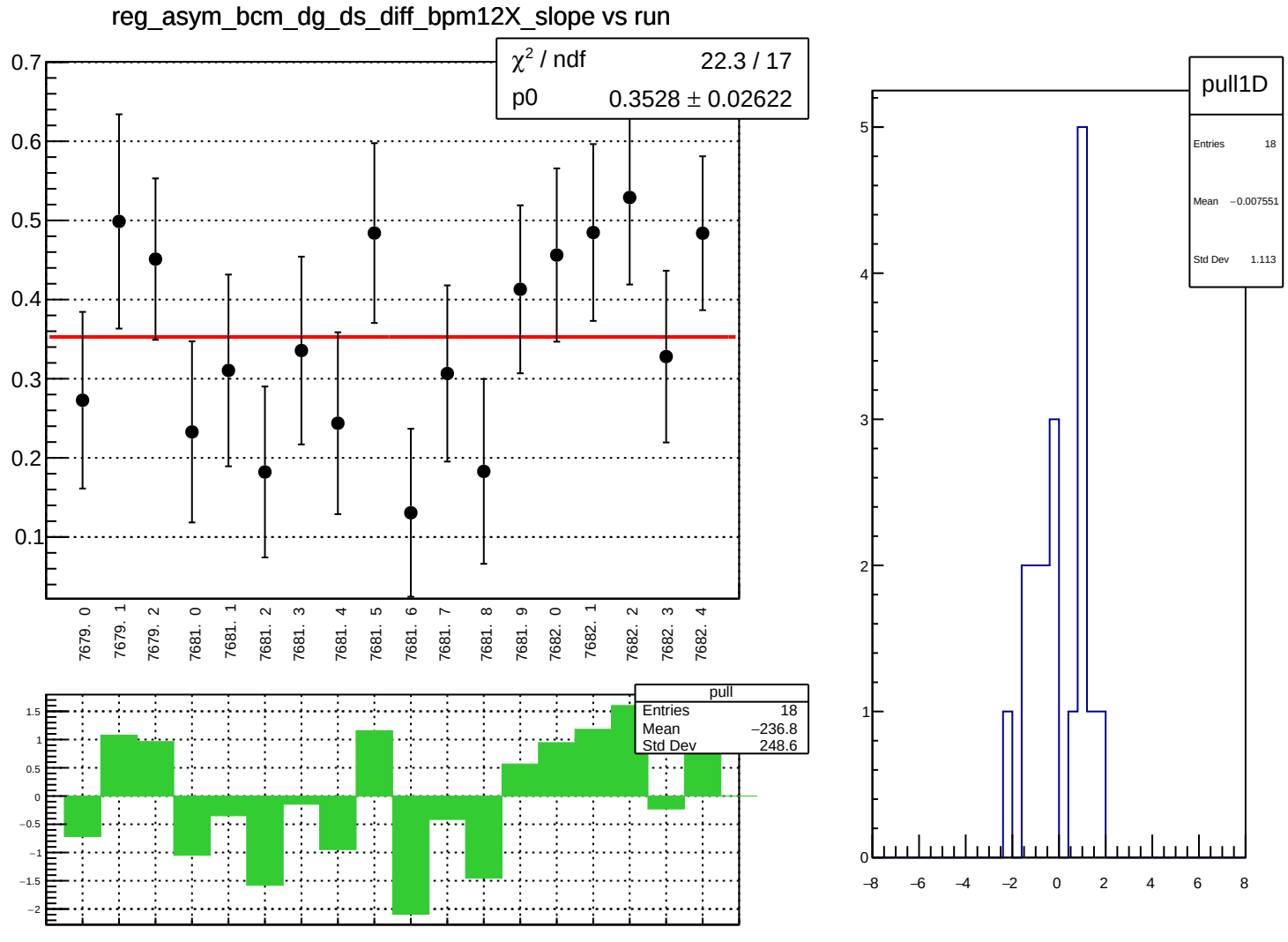

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 32.01 / 17
p0 2.517 ± 0.2099
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −118.1
Std Dev 128.8
pull1D
Entries 18
Mean −0.0225
Std Dev 1.333

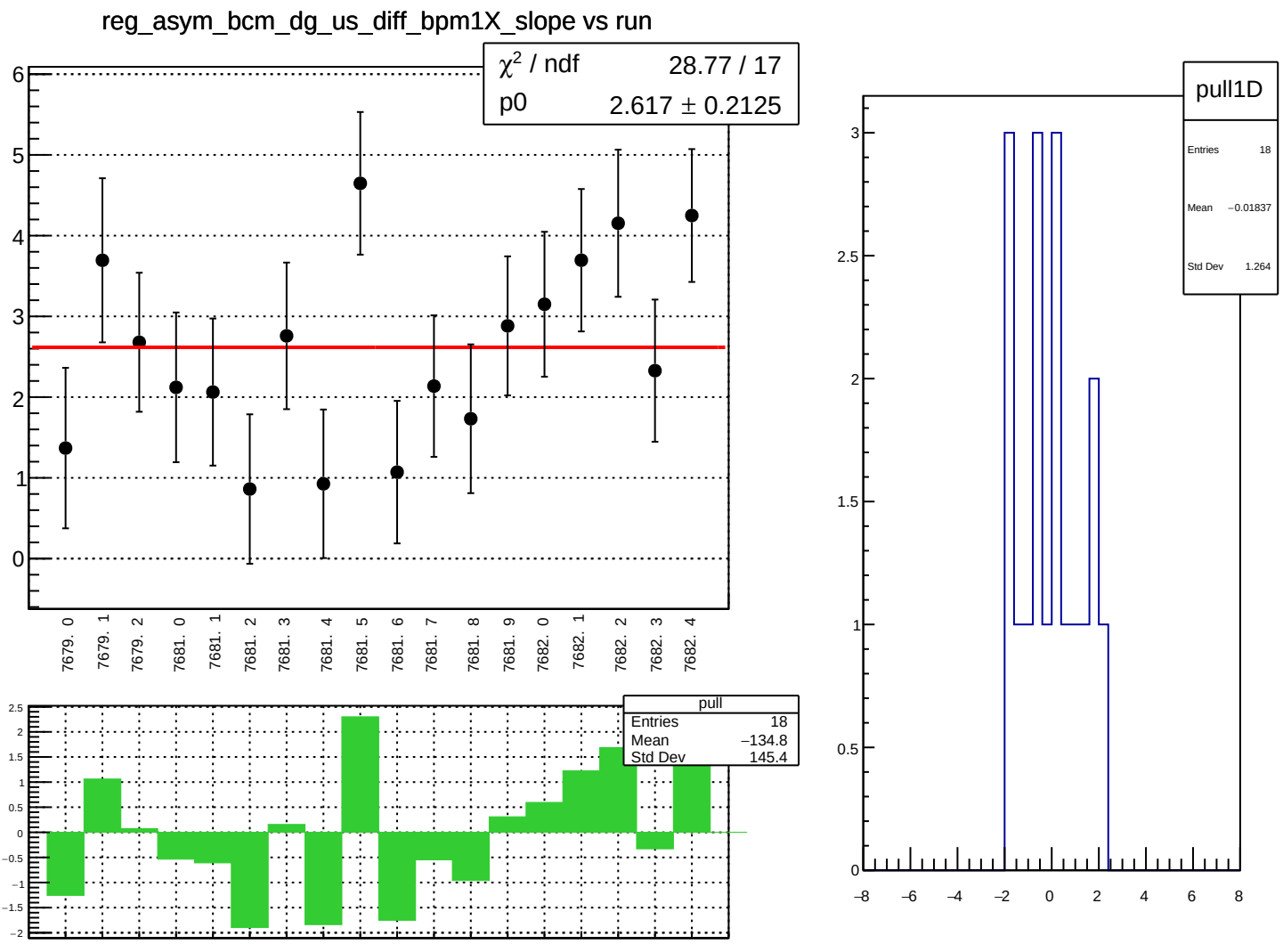

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 15.9 / 17
p0 −0.512 ± 0.3481
3
2
1
0
−1
−2
−3
−4
−5
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −359.5
Std Dev 372.9
1.5
1
0.5
0
−0.5
−1
−1.5

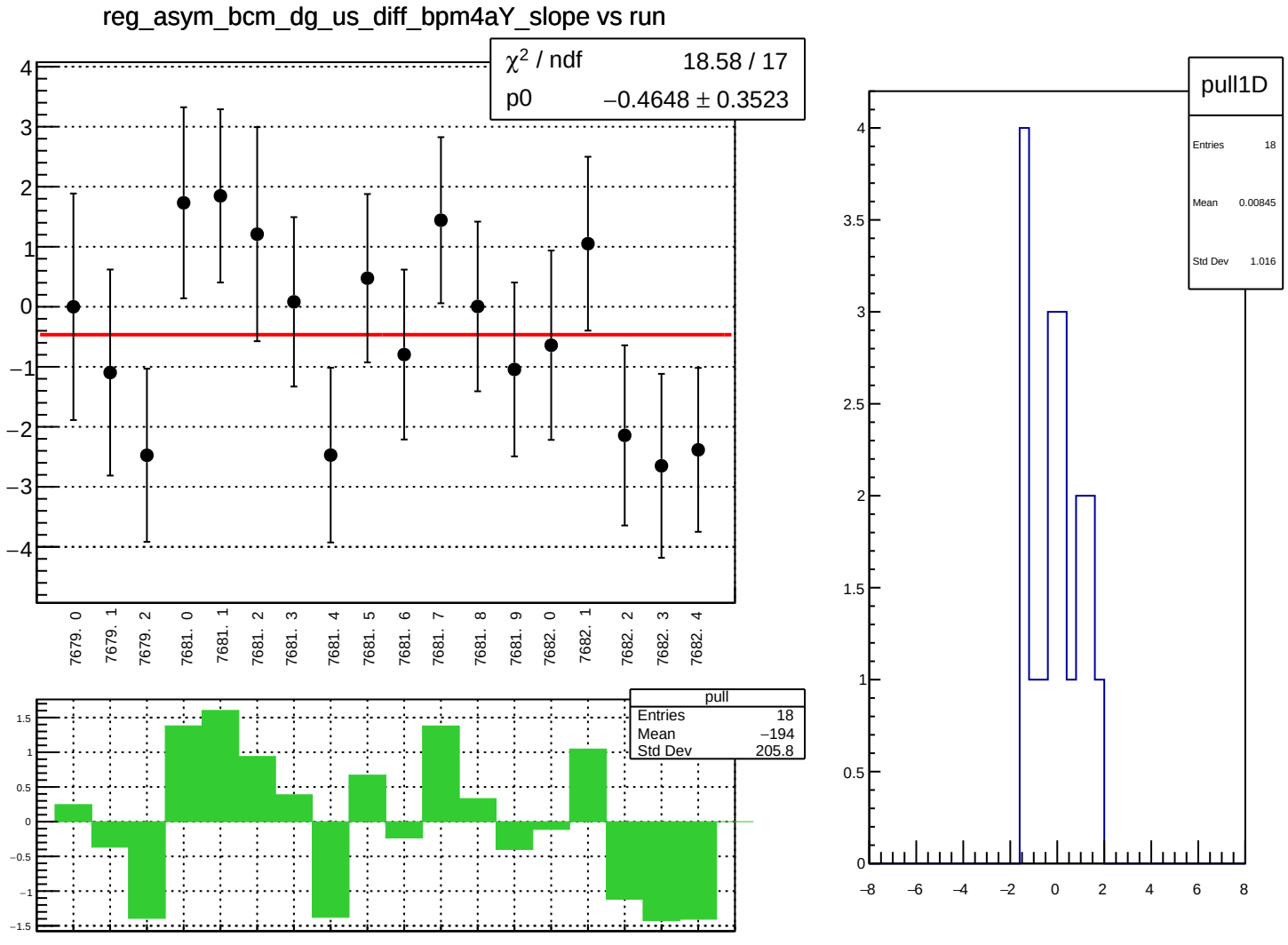

pull1D
Entries 18
Mean 0.003505
Std Dev 0.9398
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

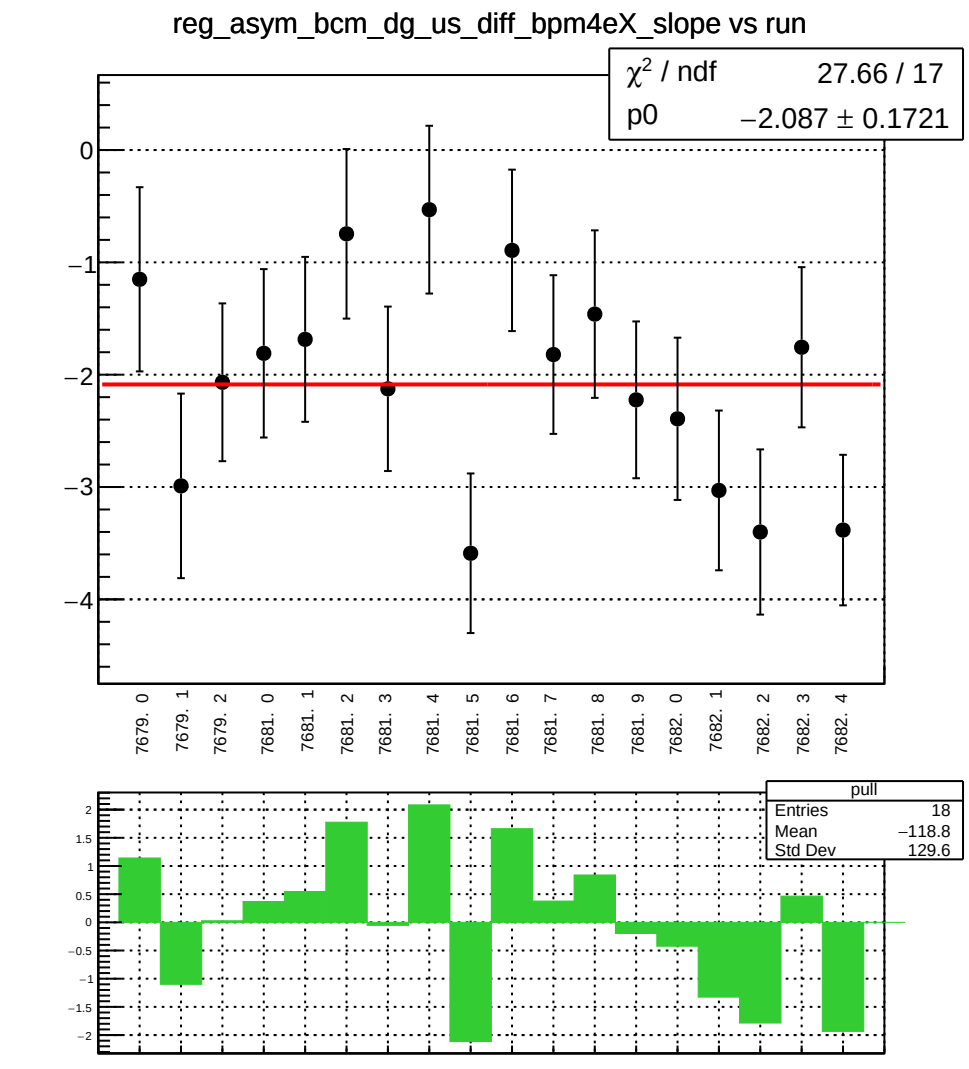

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 31.21 / 17
p0 −2.034 ± 0.1701
0
−1
−2
−3
−4
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −104.1
Std Dev 114.9
2
1
0
−1
−2
pull1D
Entries 18
Mean 0.02394
Std Dev 1.317
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

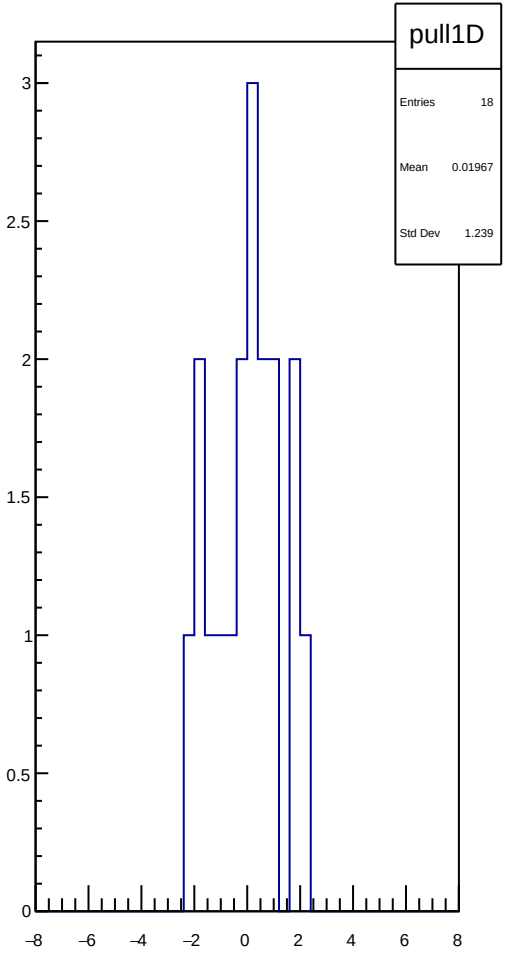

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 16.25 / 17
p0 0.2838 ± 0.5174
6
4
2
0
−2
−4
−6
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −80.6
Std Dev 94.57
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 18
Mean −0.01102
Std Dev 0.9502
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

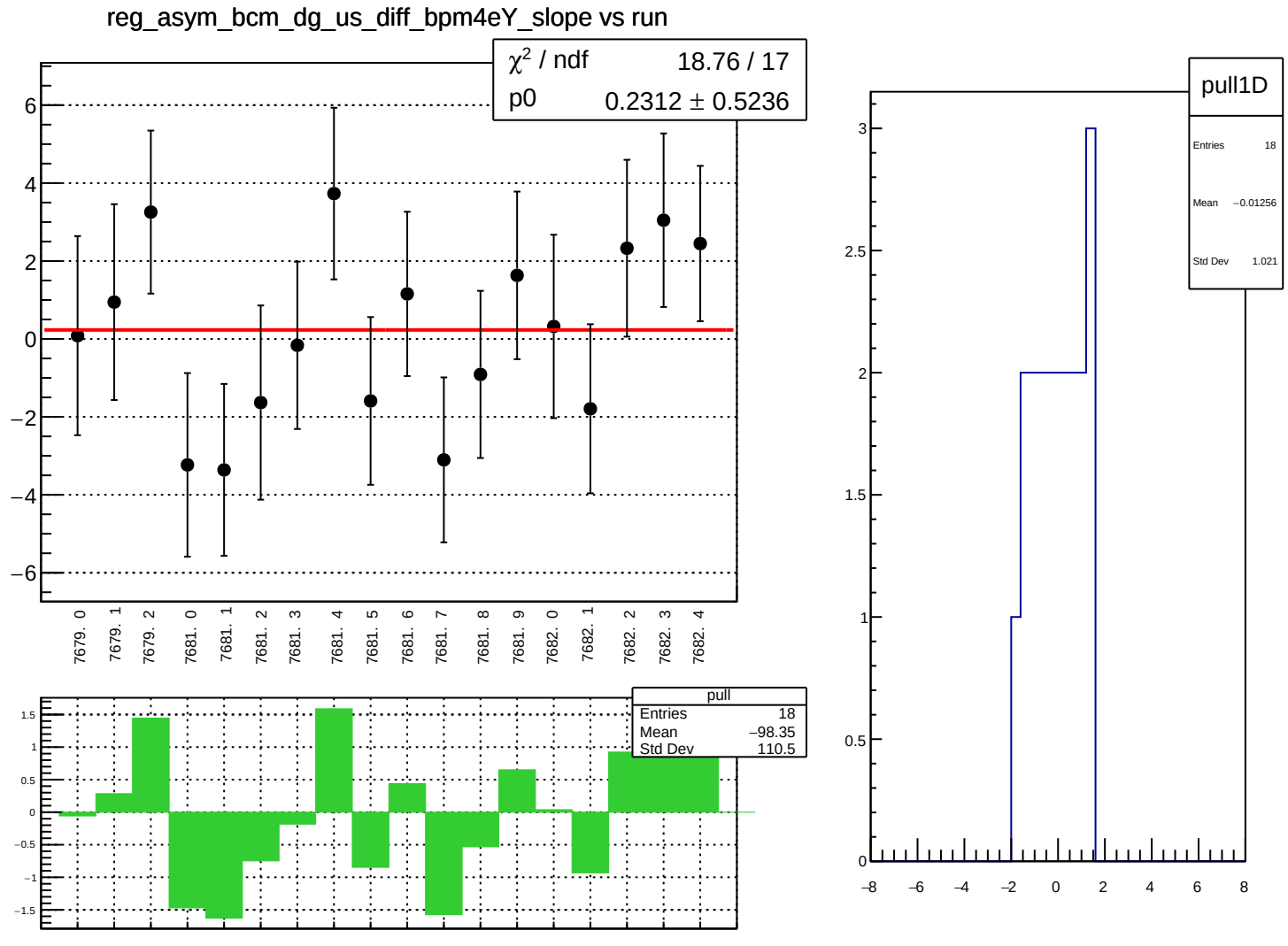

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 22.3 / 17
p0 0.3528 ± 0.02622
0.7
0.6
0.5
0.4
0.3
0.2
0.1
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −236.8
Std Dev 248.6
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 18
Mean −0.007551
Std Dev 1.113
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

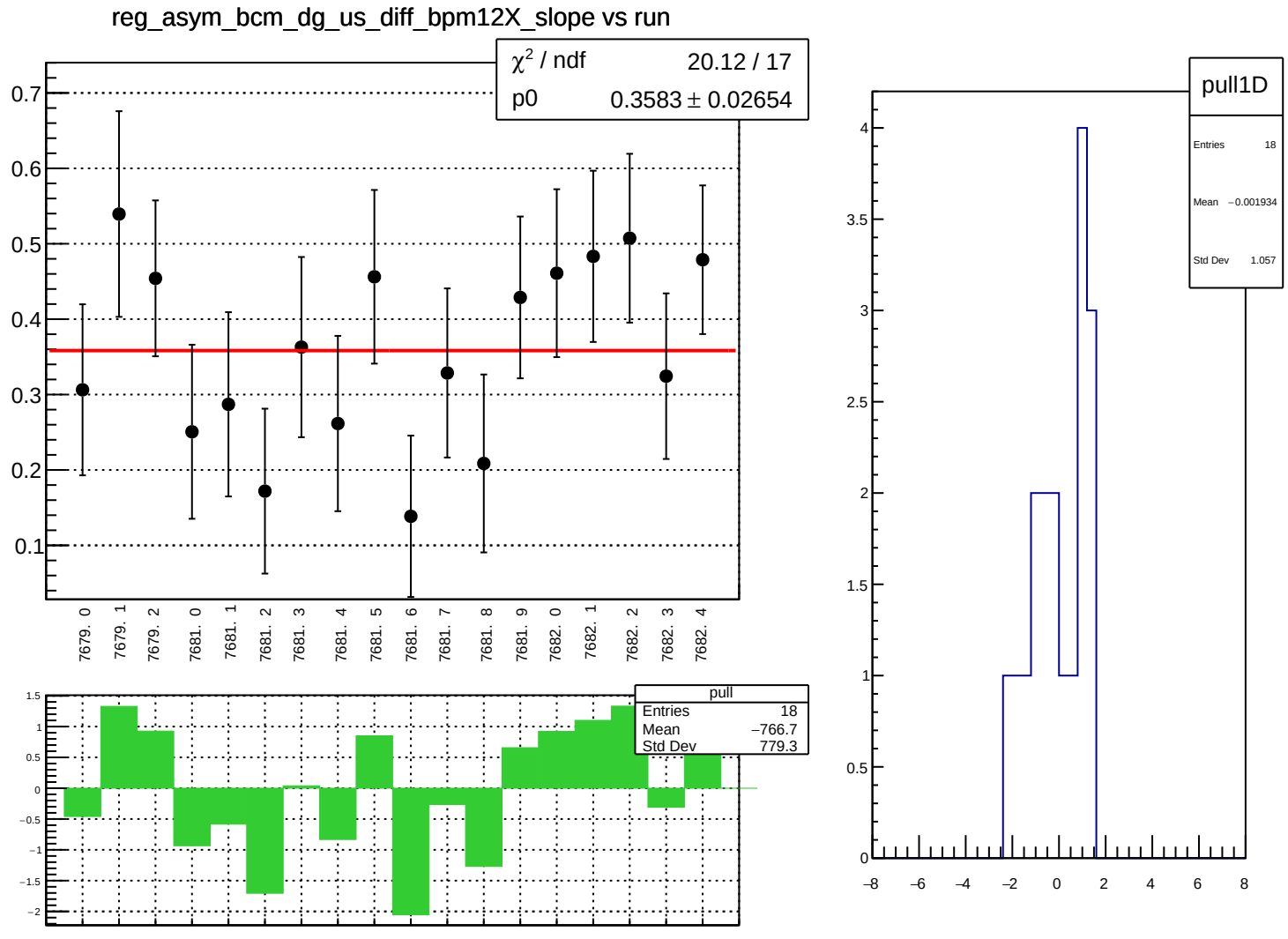

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 28.77 / 17
p0 2.617 ± 0.2125
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −134.8
Std Dev 145.4
pull1D
Entries 18
Mean −0.01837
Std Dev 1.264


reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 18.58 / 17
p0 −0.4648 ± 0.3523
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −194
Std Dev 205.8
pull1D
Entries 18
Mean 0.00845
Std Dev 1.016


reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 27.66 / 17
p0 −2.087 ± 0.1721
0
−1
−2
−3
−4
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −118.8
Std Dev 129.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 18
Mean 0.01967
Std Dev 1.239
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 18.76 / 17
p0 0.2312 ± 0.5236
6
4
2
0
−2
−4
−6
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −98.35
Std Dev 110.5
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 18
Mean −0.01256
Std Dev 1.021
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 20.12 / 17
p0 0.3583 ± 0.02654
0.7
0.6
0.5
0.4
0.3
0.2
0.1
7679. 0
7679. 1
7679. 2
7681. 0
7681. 1
7681. 2
7681. 3
7681. 4
7681. 5
7681. 6
7681. 7
7681. 8
7681. 9
7682. 0
7682. 1
7682. 2
7682. 3
7682. 4
pull
Entries 18
Mean −766.7
Std Dev 779.3
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 18
Mean −0.001934
Std Dev 1.057
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8