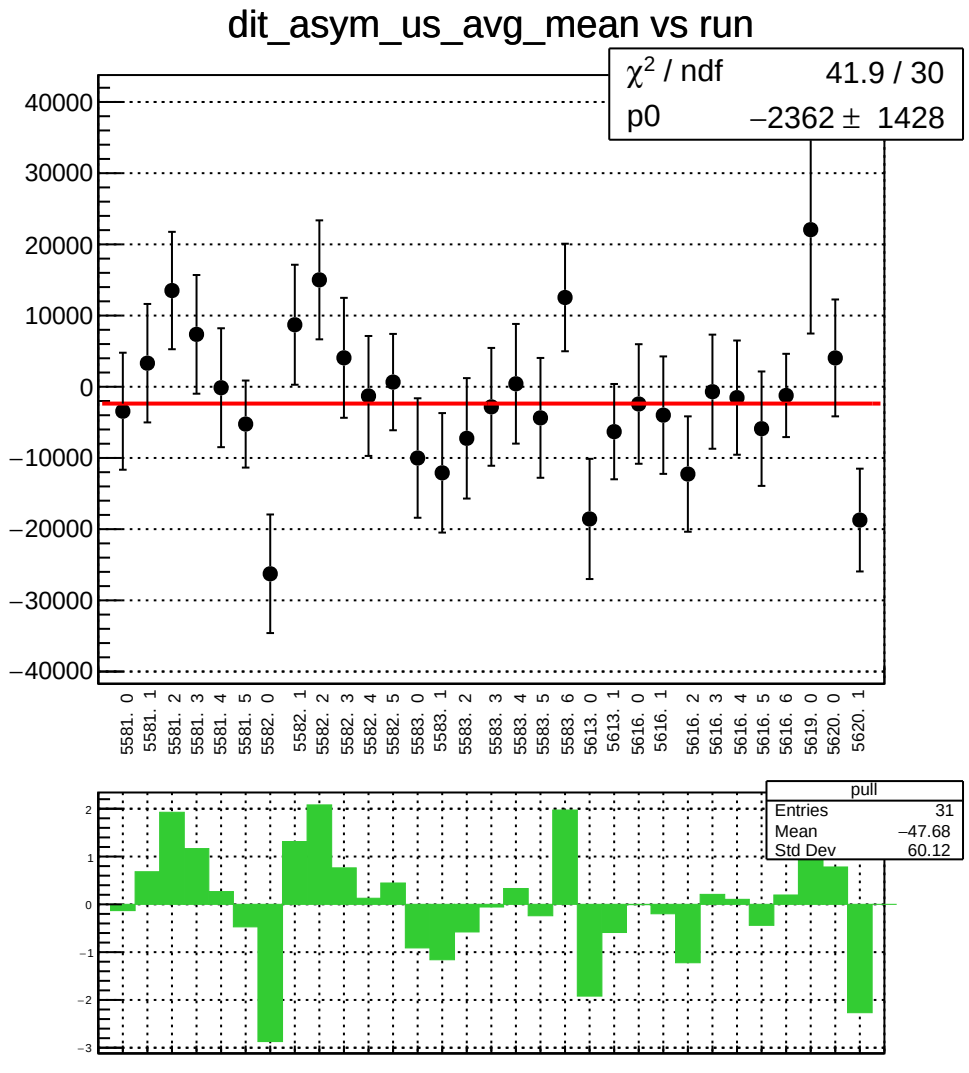
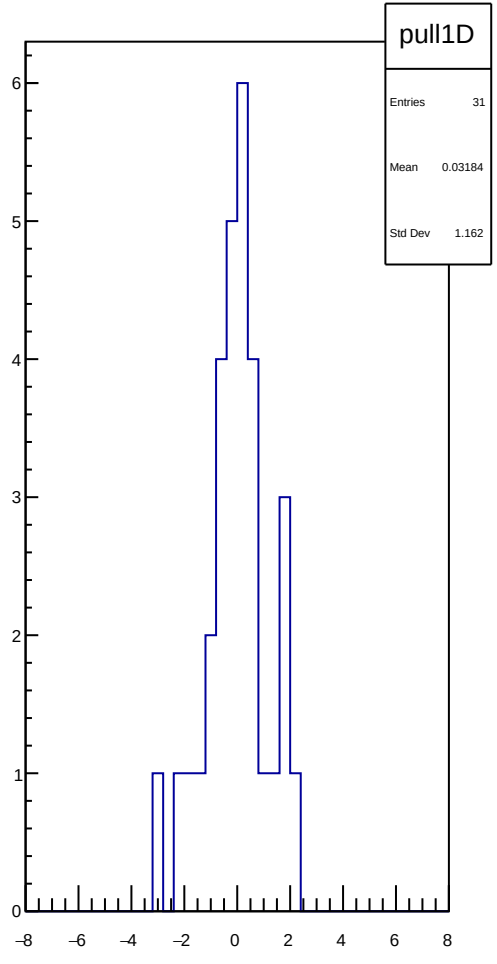
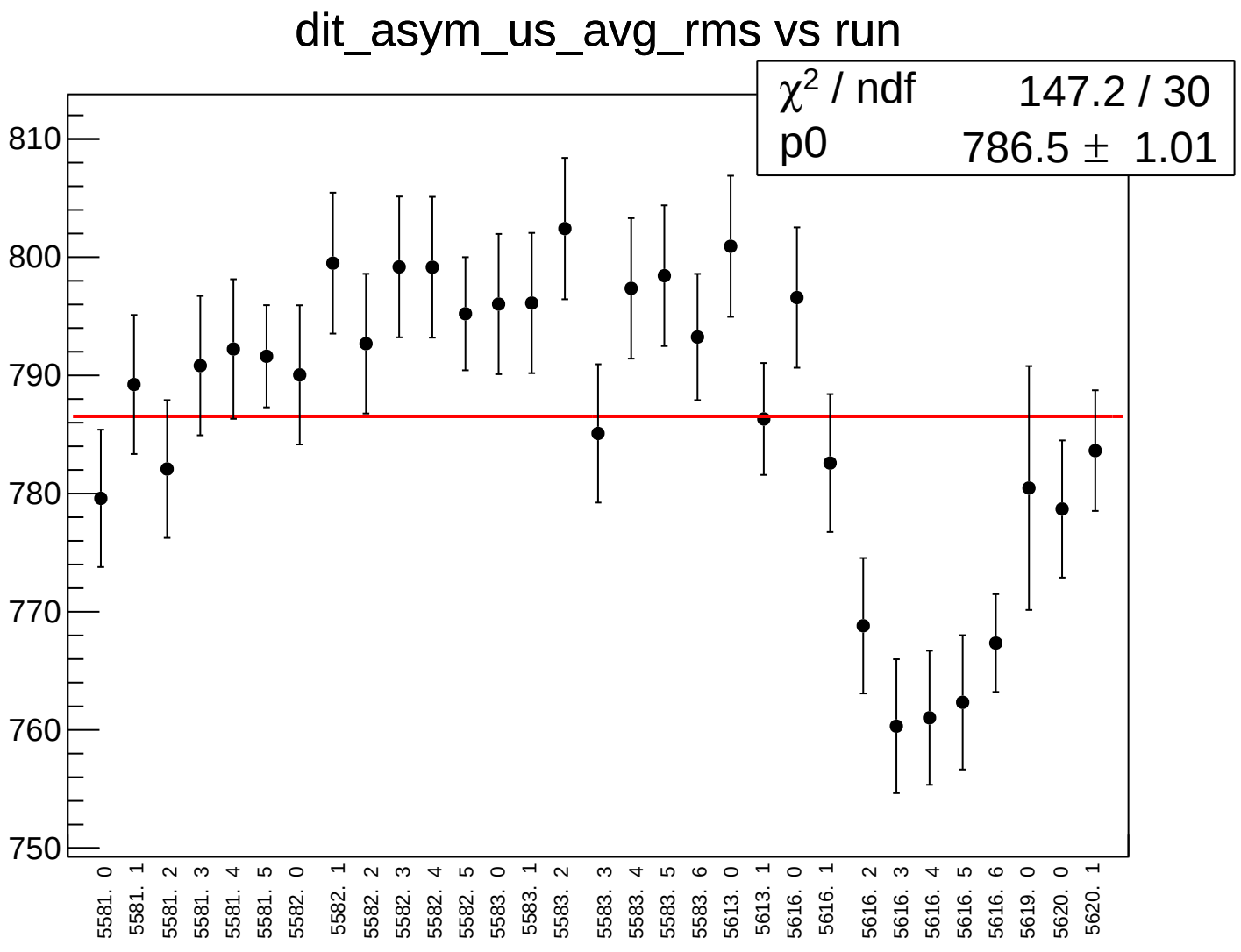
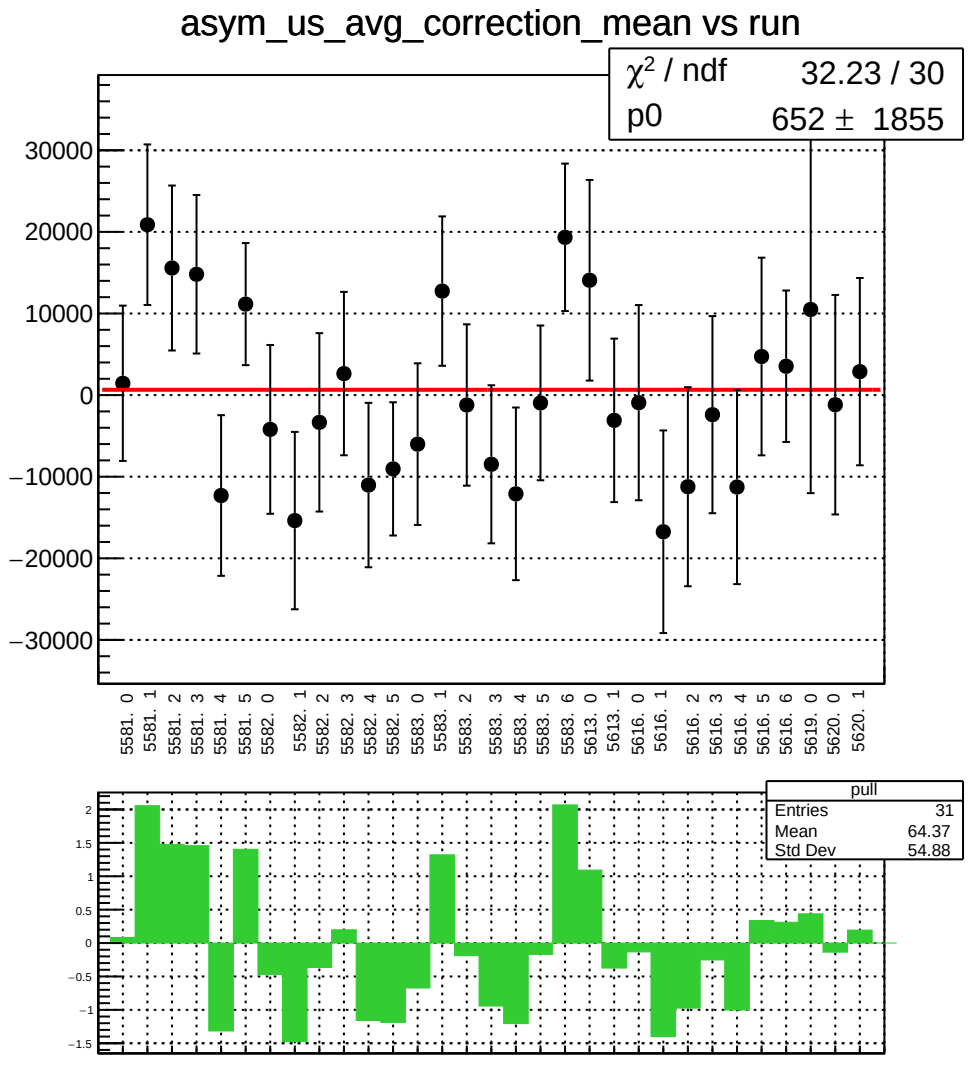
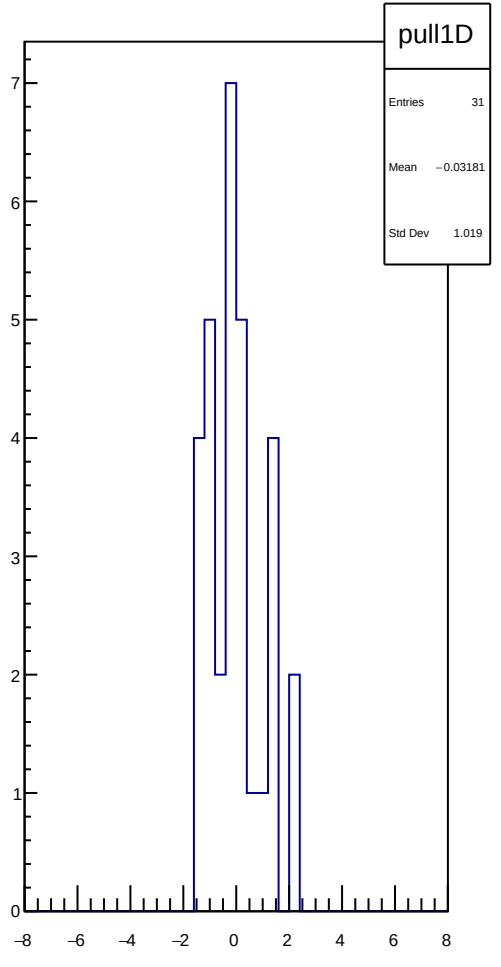
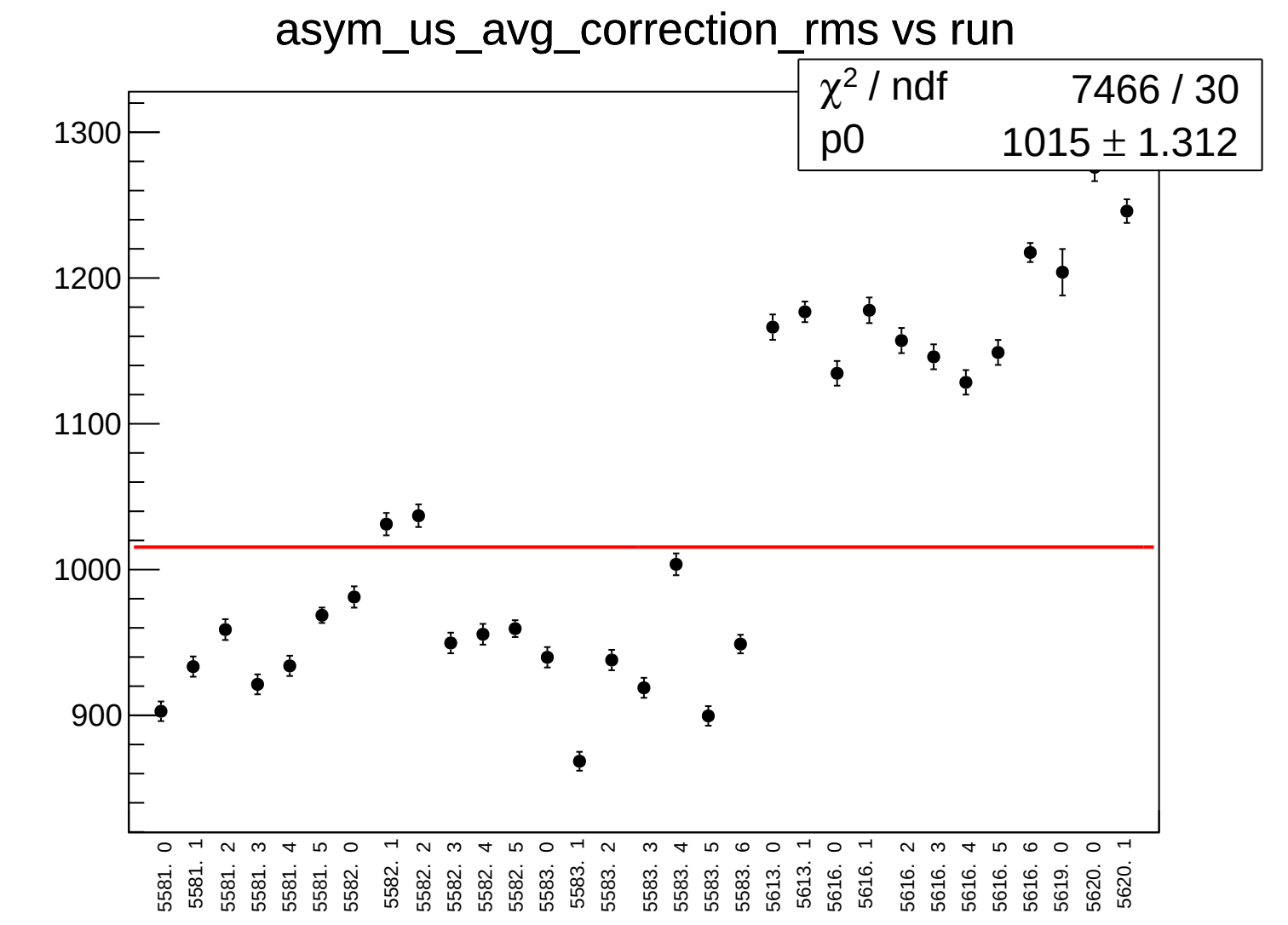

dit_asym_us_avg_mean vs run
χ² / ndf 41.9 / 30
p0 −2362 ± 1428
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −47.68
Std Dev 60.12
2
1
0
−1
−2
−3

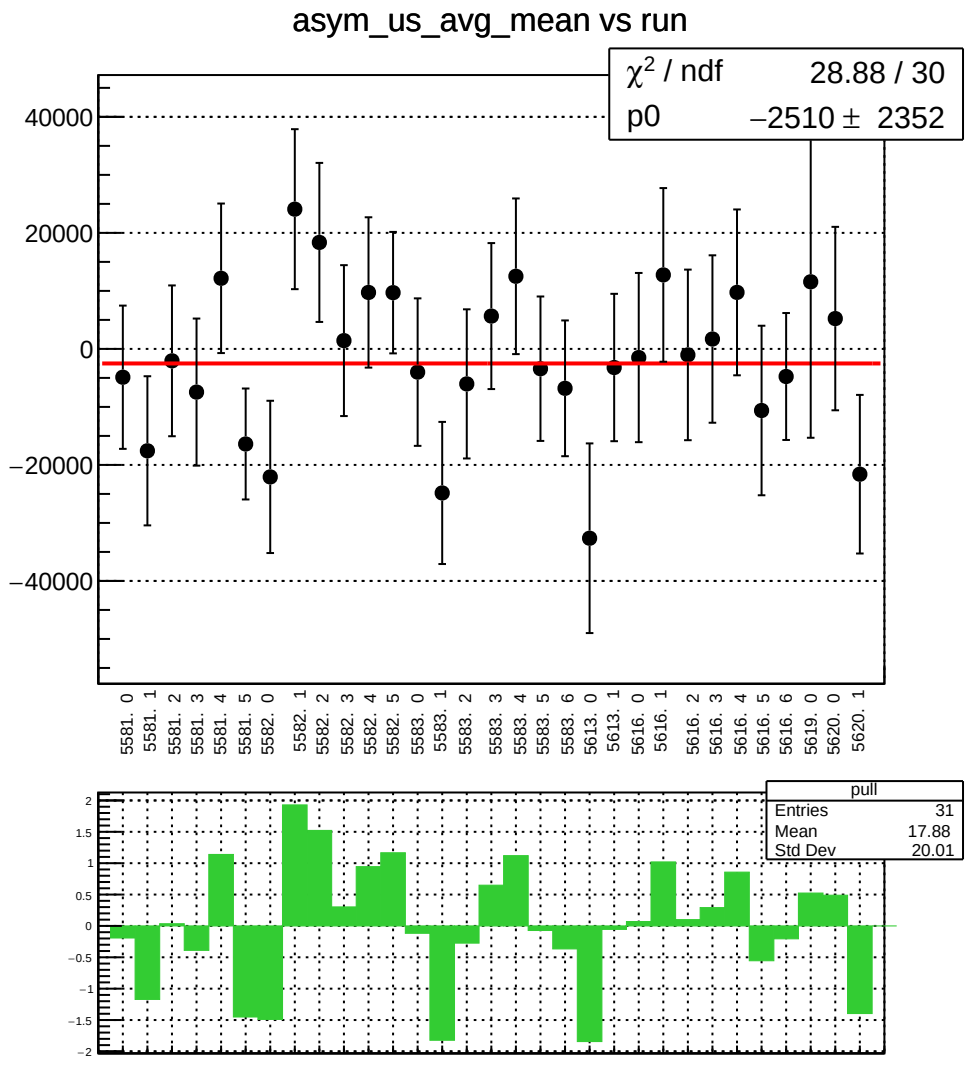

pull1D
Entries 31
Mean 0.03184
Std Dev 1.162
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

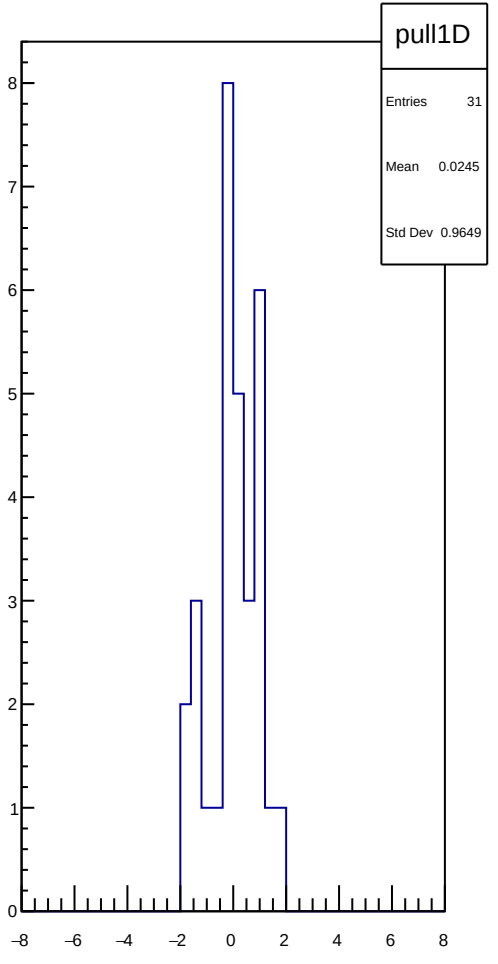

dit_asym_us_avg_rms vs run
χ² / ndf 147.2 / 30
p0 786.5 ± 1.01
810
800
790
780
770
760
750
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

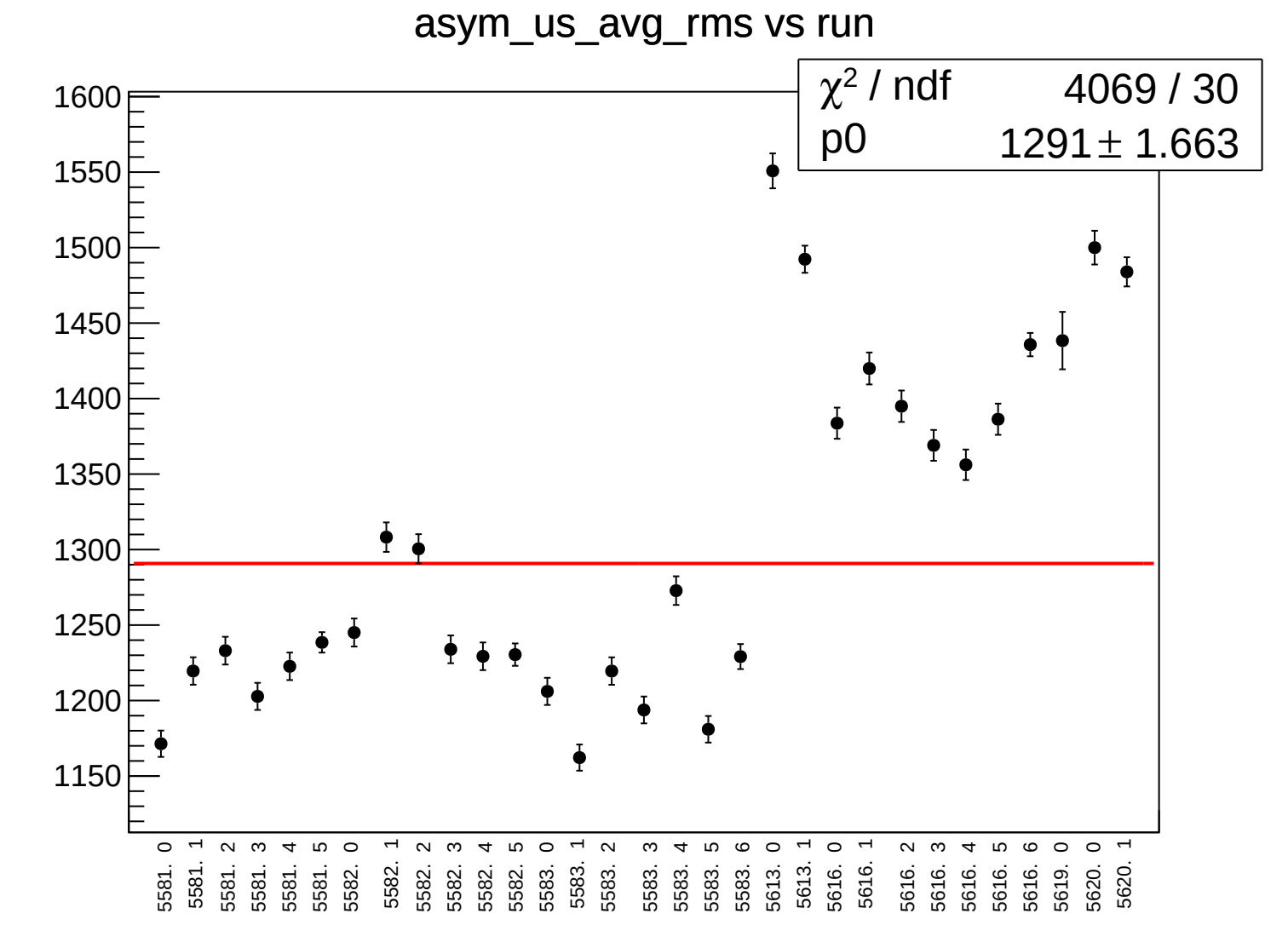

asym_us_avg_correction_mean vs run
χ² / ndf 32.23 / 30
p0 652 ± 1855
30000
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 64.37
Std Dev 54.88
2
1.5
1
0.5
0
−0.5
−1
−1.5

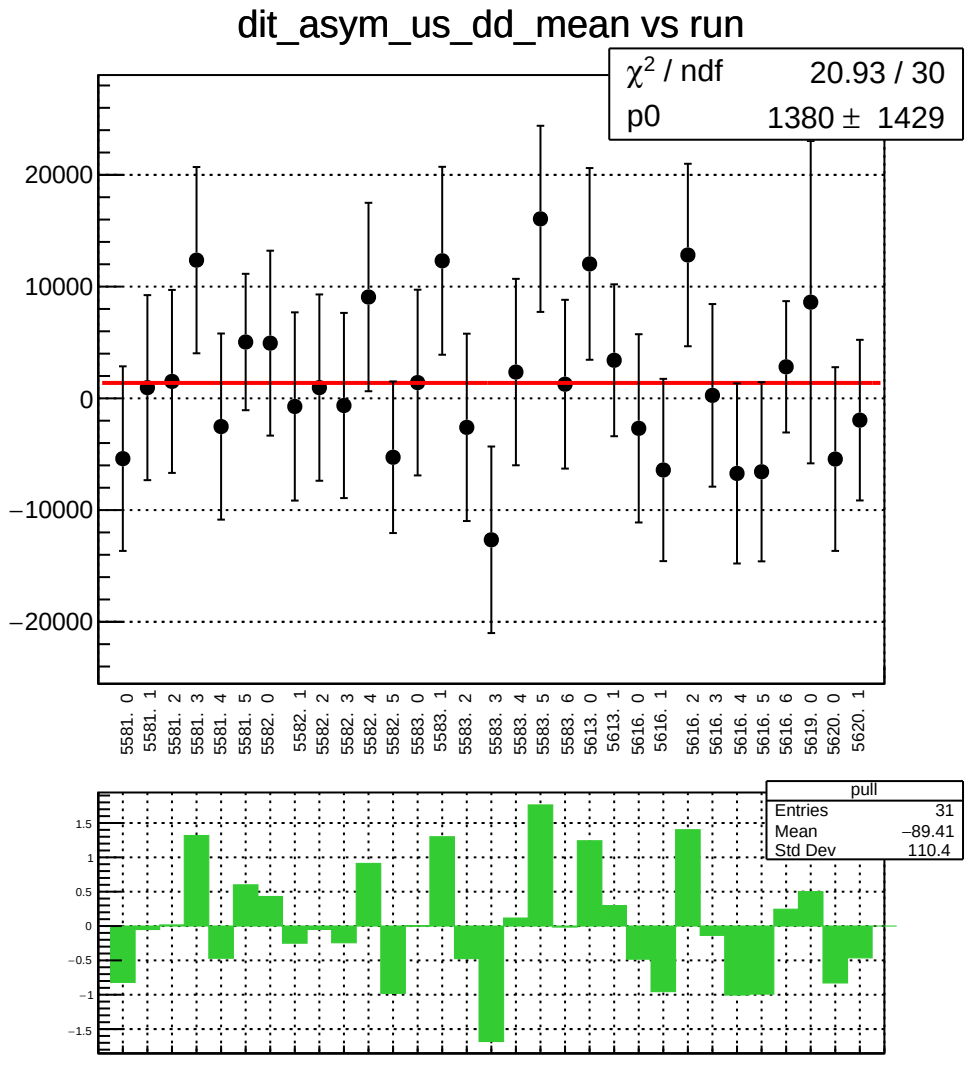

pull1D
Entries 31
Mean −0.03181
Std Dev 1.019
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

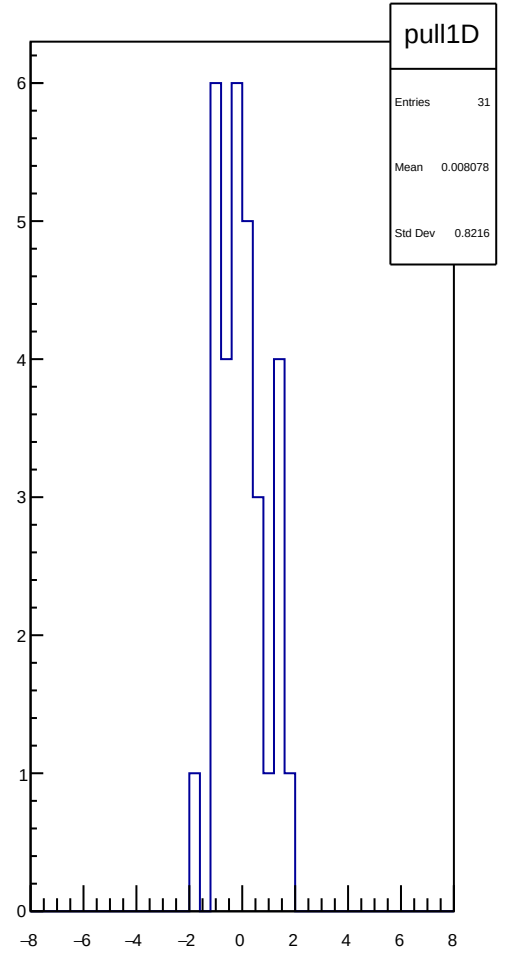

asym_us_avg_correction_rms vs run
χ² / ndf 7466 / 30
p0 1015 ± 1.312
1300
1200
1100
1000
900
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

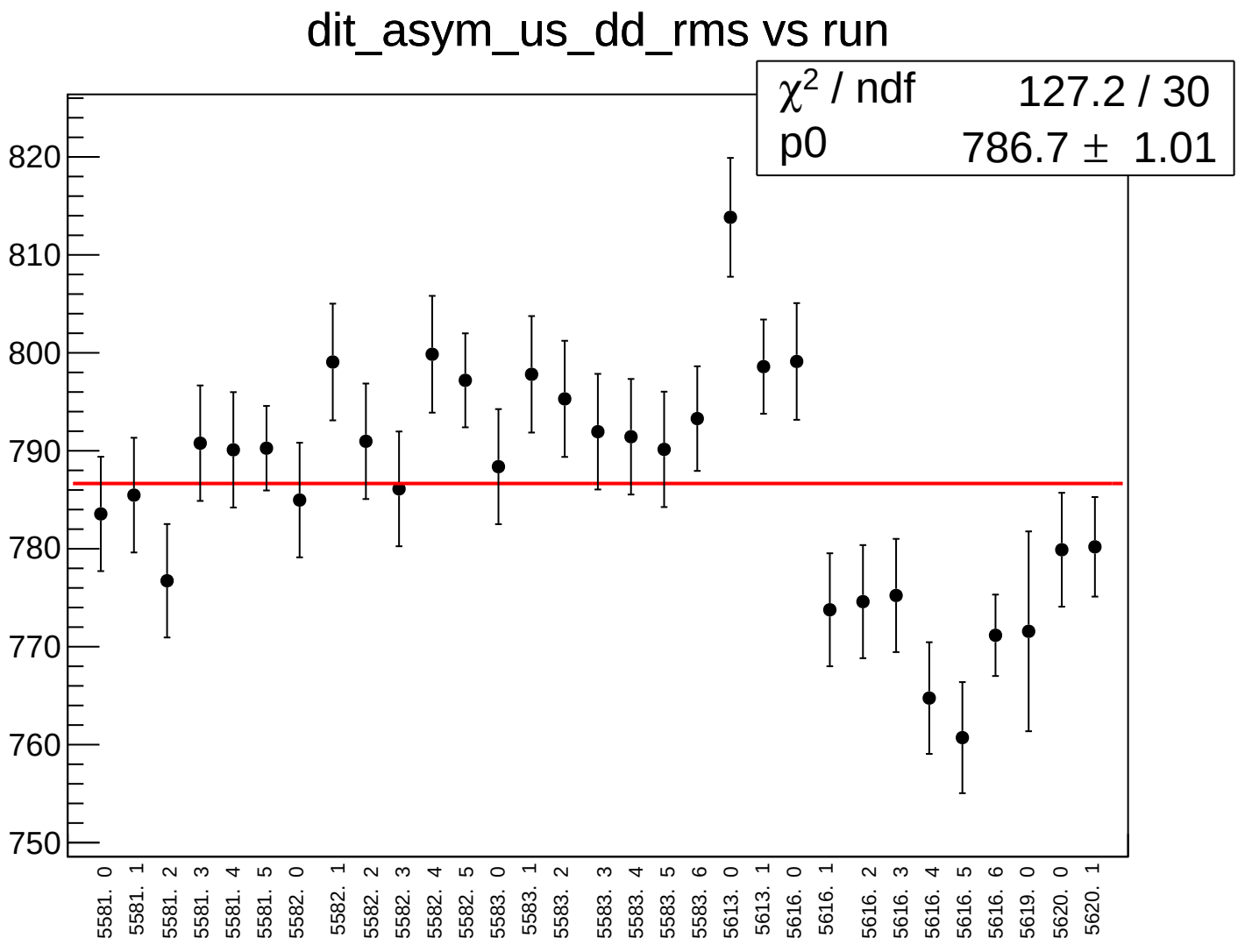

asym_us_avg_mean vs run
χ² / ndf 28.88 / 30
p0 −2510 ± 2352
40000
20000
0
−20000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 17.88
Std Dev 20.01
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

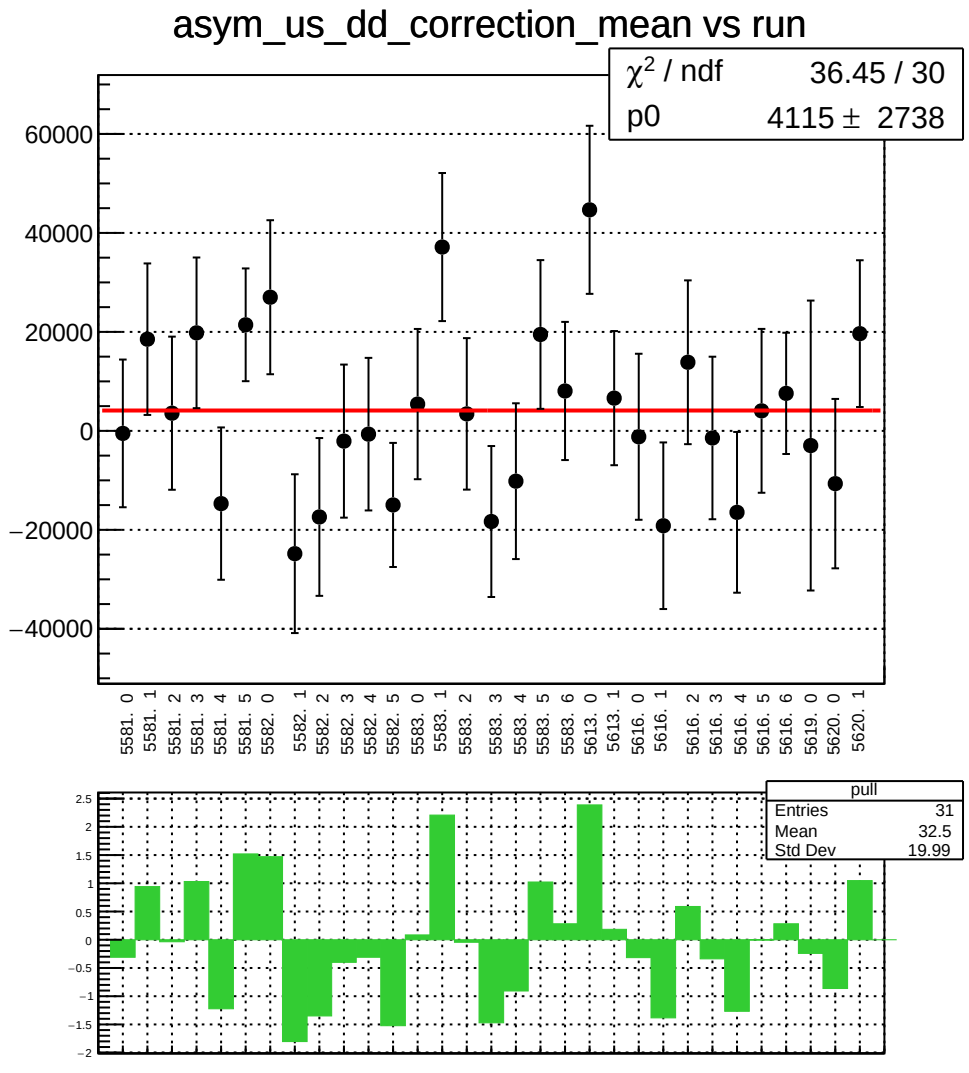

pull1D
Entries 31
Mean 0.0245
Std Dev 0.9649
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

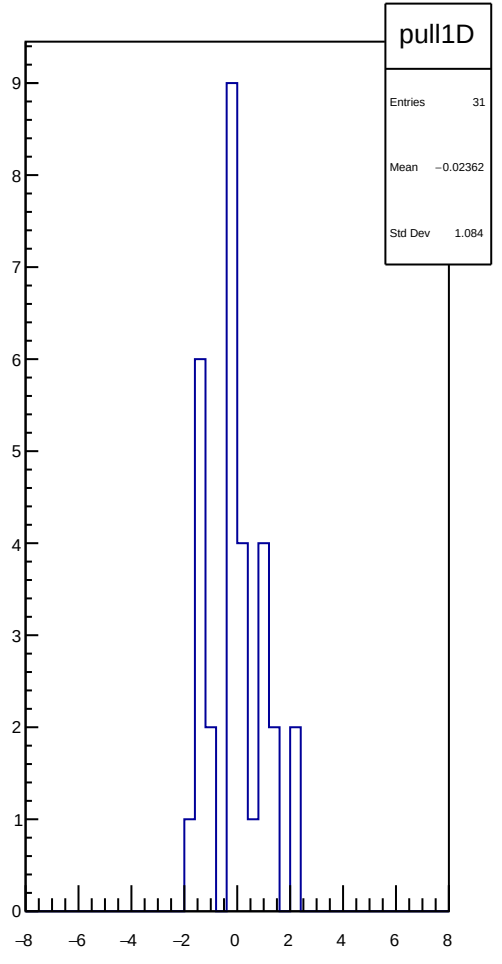

asym_us_avg_rms vs run
χ² / ndf 4069 / 30
p0 1291 ± 1.663
1600
1550
1500
1450
1400
1350
1300
1250
1200
1150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

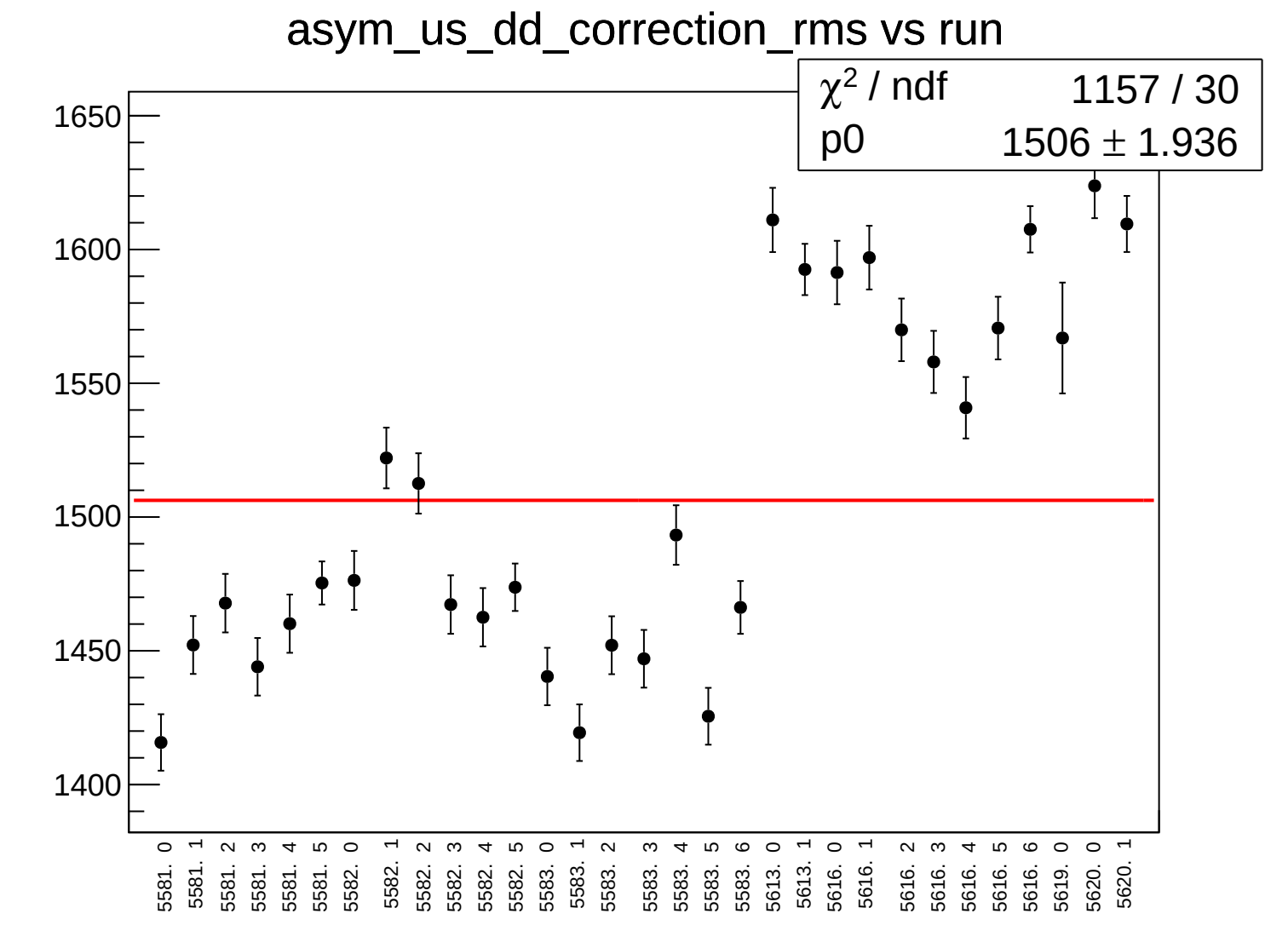

dit_asym_us_dd_mean vs run
χ² / ndf 20.93 / 30
p0 1380 ± 1429
20000
10000
0
−10000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −89.41
Std Dev 110.4
1.5
1
0.5
0
−0.5
−1
−1.5

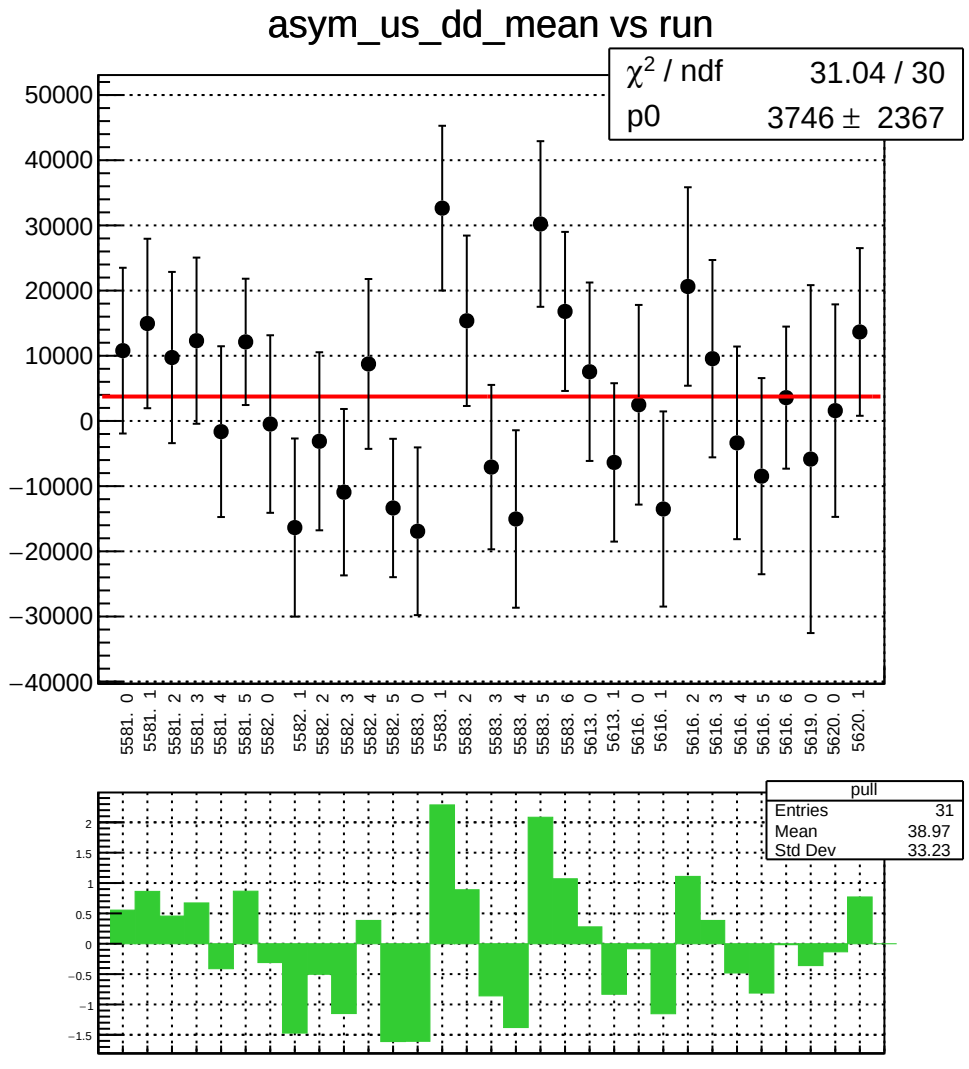

pull1D
Entries 31
Mean 0.008078
Std Dev 0.8216
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

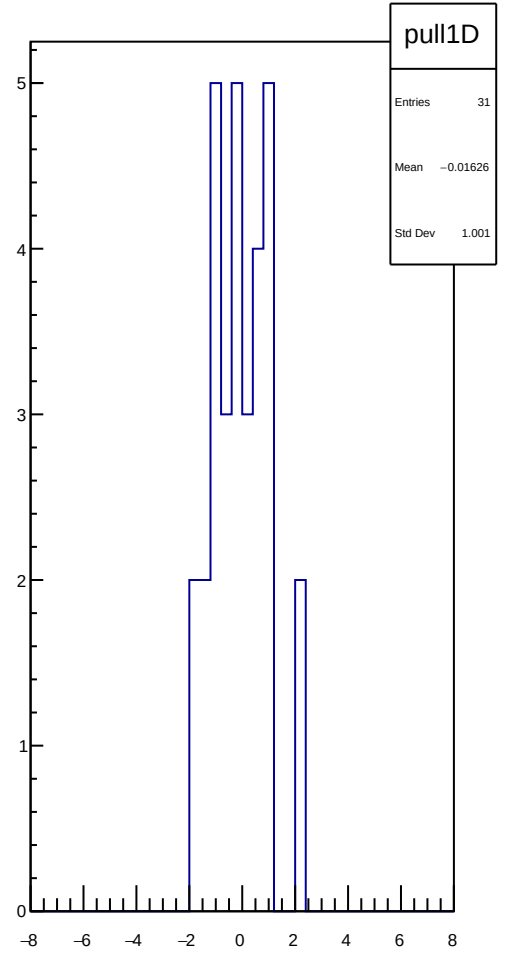

dit_asym_us_dd_rms vs run
χ² / ndf 127.2 / 30
p0 786.7 ± 1.01
820
810
800
790
780
770
760
750
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

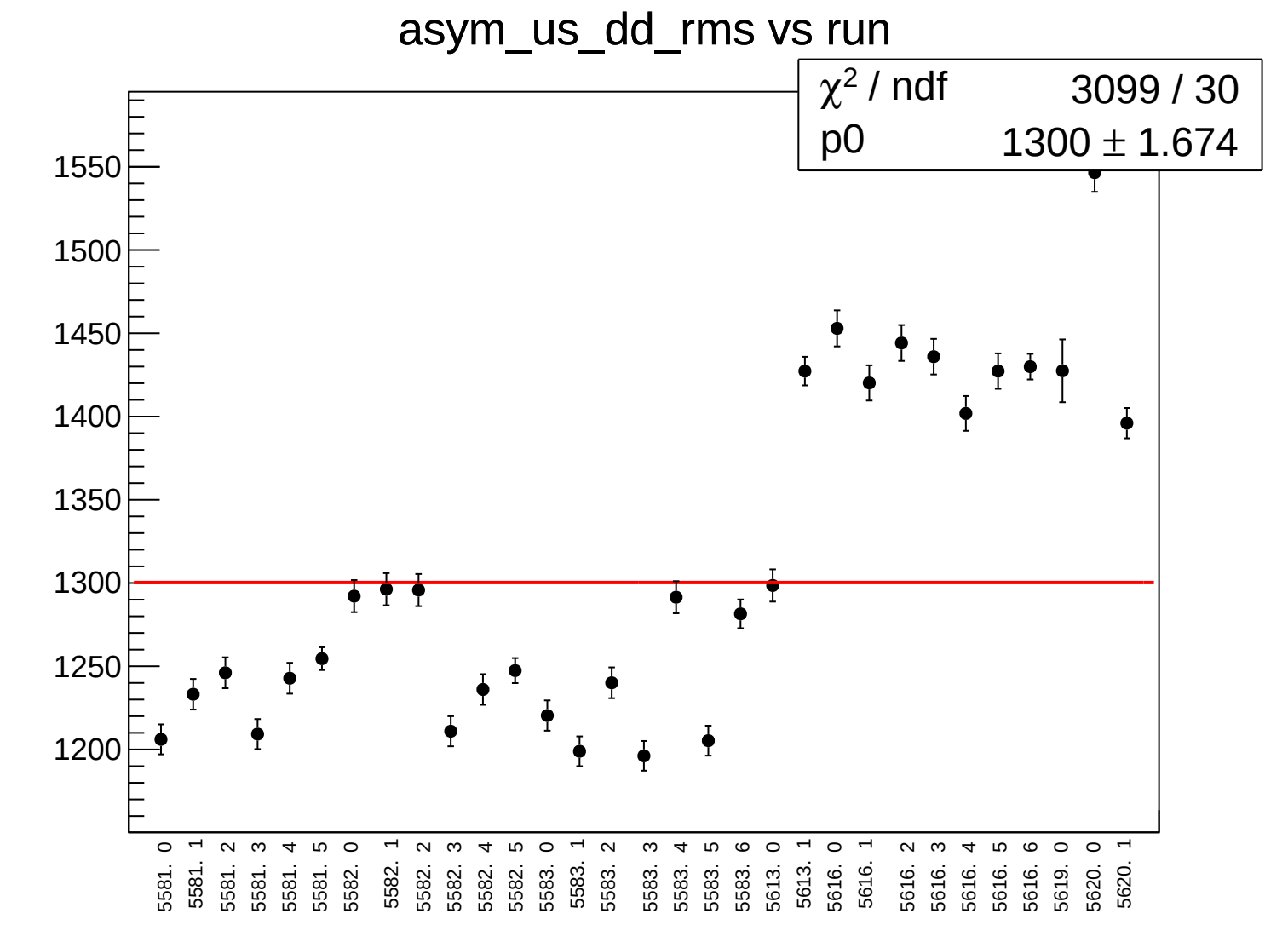

asym_us_dd_correction_mean vs run
χ² / ndf 36.45 / 30
p0 4115 ± 2738
60000
40000
20000
0
−20000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 32.5
Std Dev 19.99
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

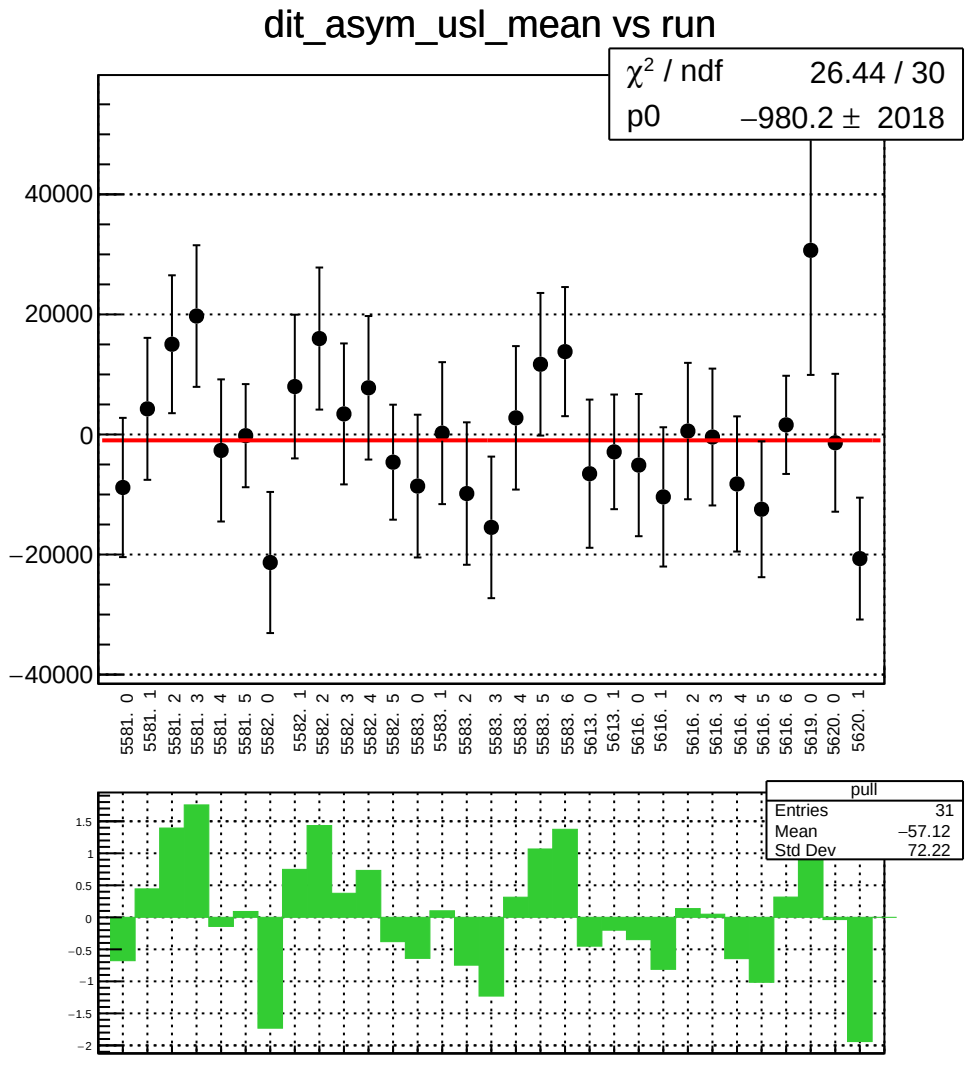

pull1D
Entries 31
Mean −0.02362
Std Dev 1.084
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

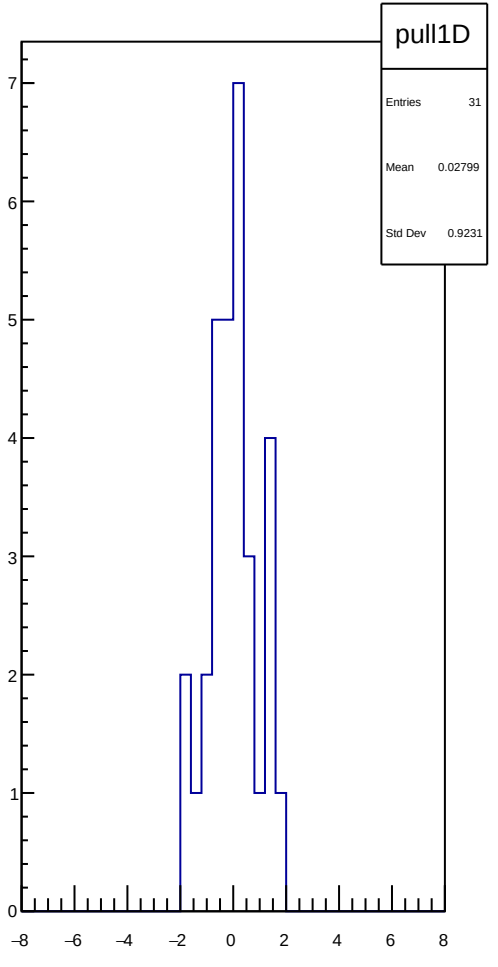

asym_us_dd_correction_rms vs run
χ² / ndf 1157 / 30
p0 1506 ± 1.936
1650
1600
1550
1500
1450
1400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

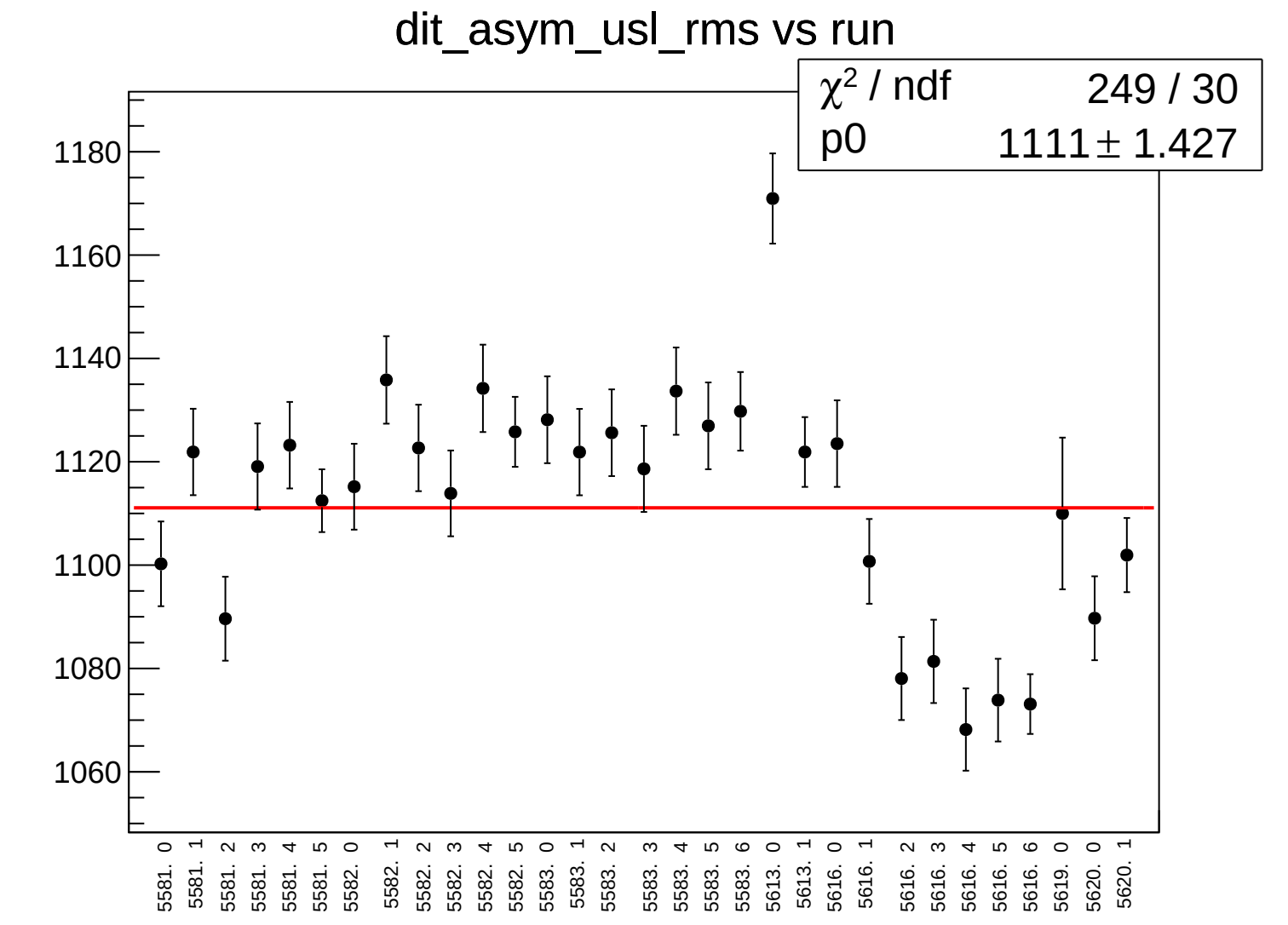

asym_us_dd_mean vs run
χ² / ndf 31.04 / 30
p0 3746 ± 2367
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 38.97
Std Dev 33.23
2
1.5
1
0.5
0
−0.5
−1
−1.5

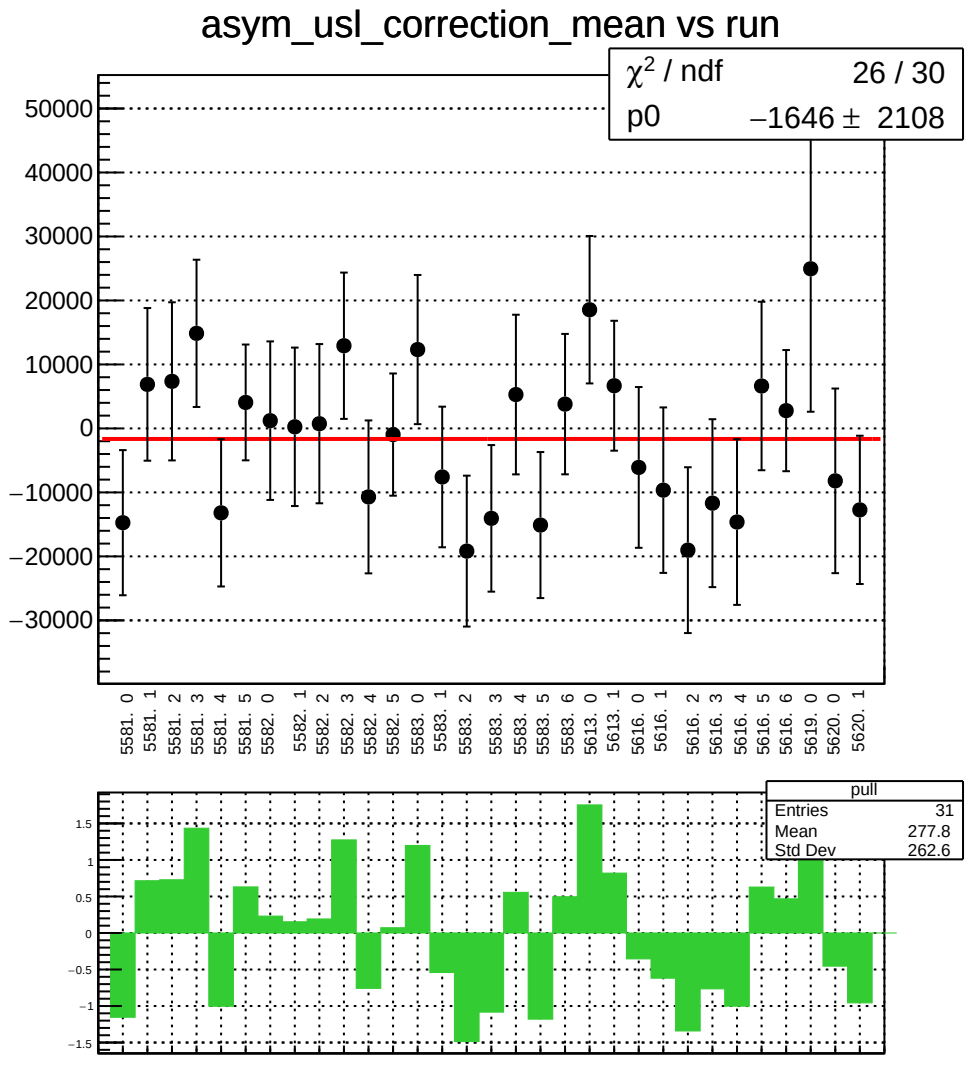

pull1D
Entries 31
Mean −0.01626
Std Dev 1.001
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

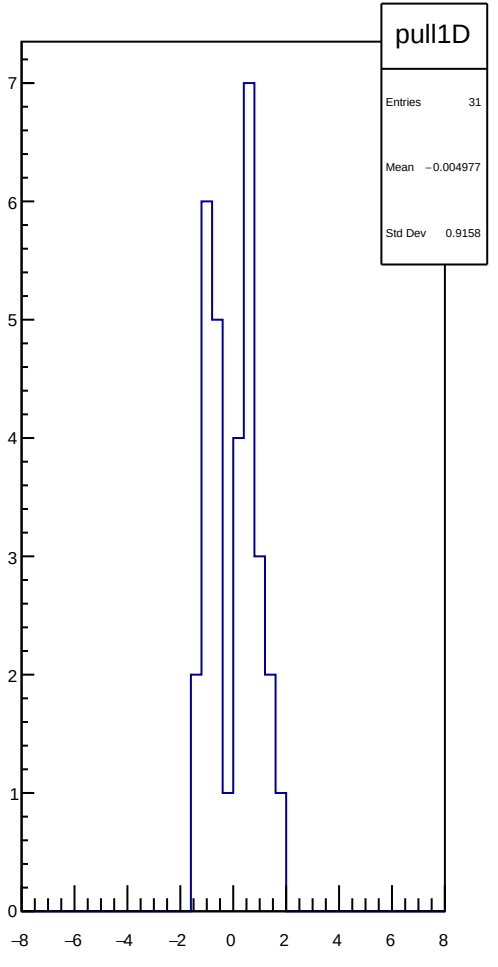

asym_us_dd_rms vs run
χ² / ndf 3099 / 30
p0 1300 ± 1.674
1550
1500
1450
1400
1350
1300
1250
1200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

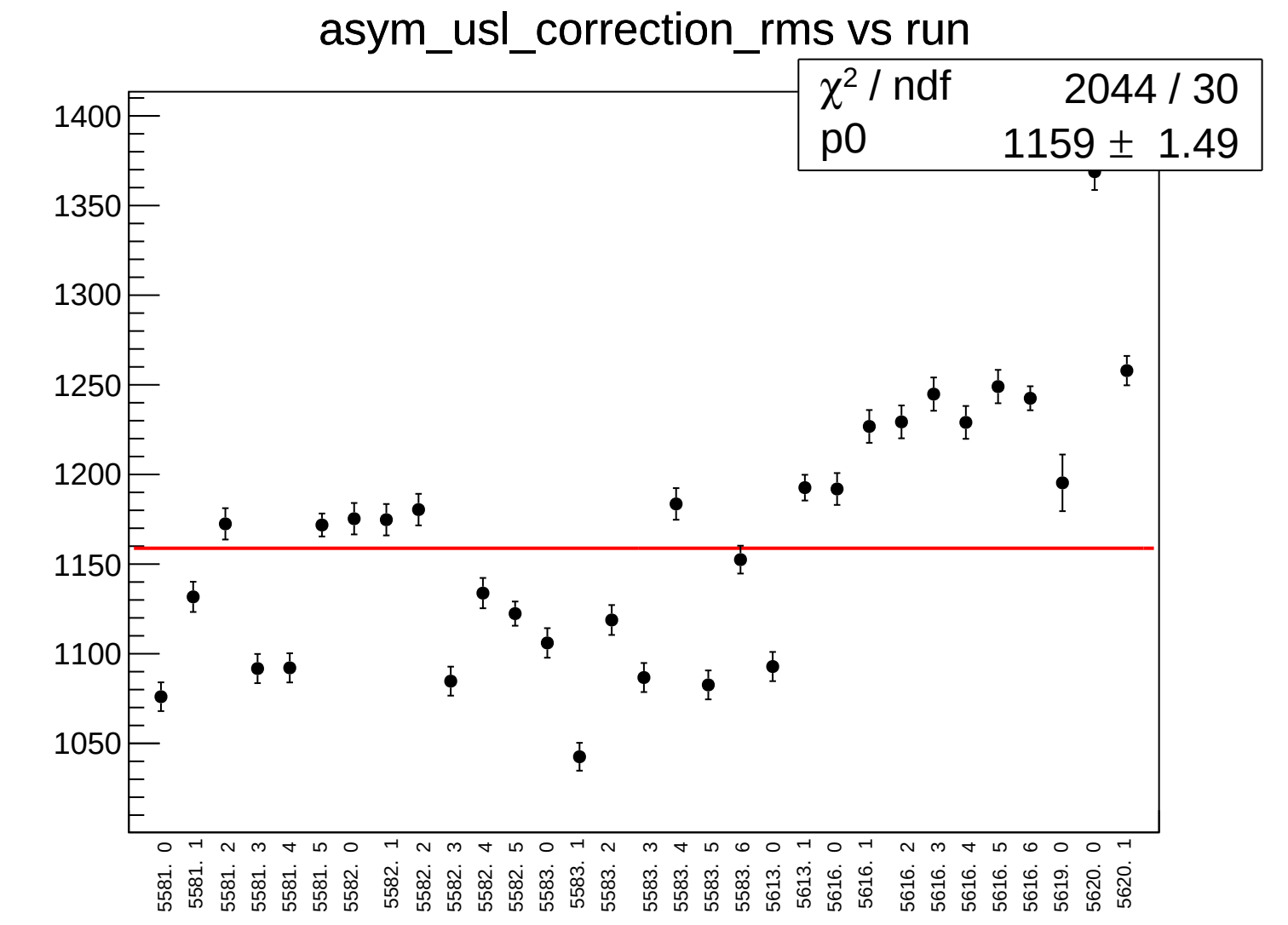

dit_asym_usl_mean vs run
χ² / ndf 26.44 / 30
p0 −980.2 ± 2018
40000
20000
0
−20000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −57.12
Std Dev 72.22
1.5
1
0.5
0
−0.5
−1
−1.5
−2

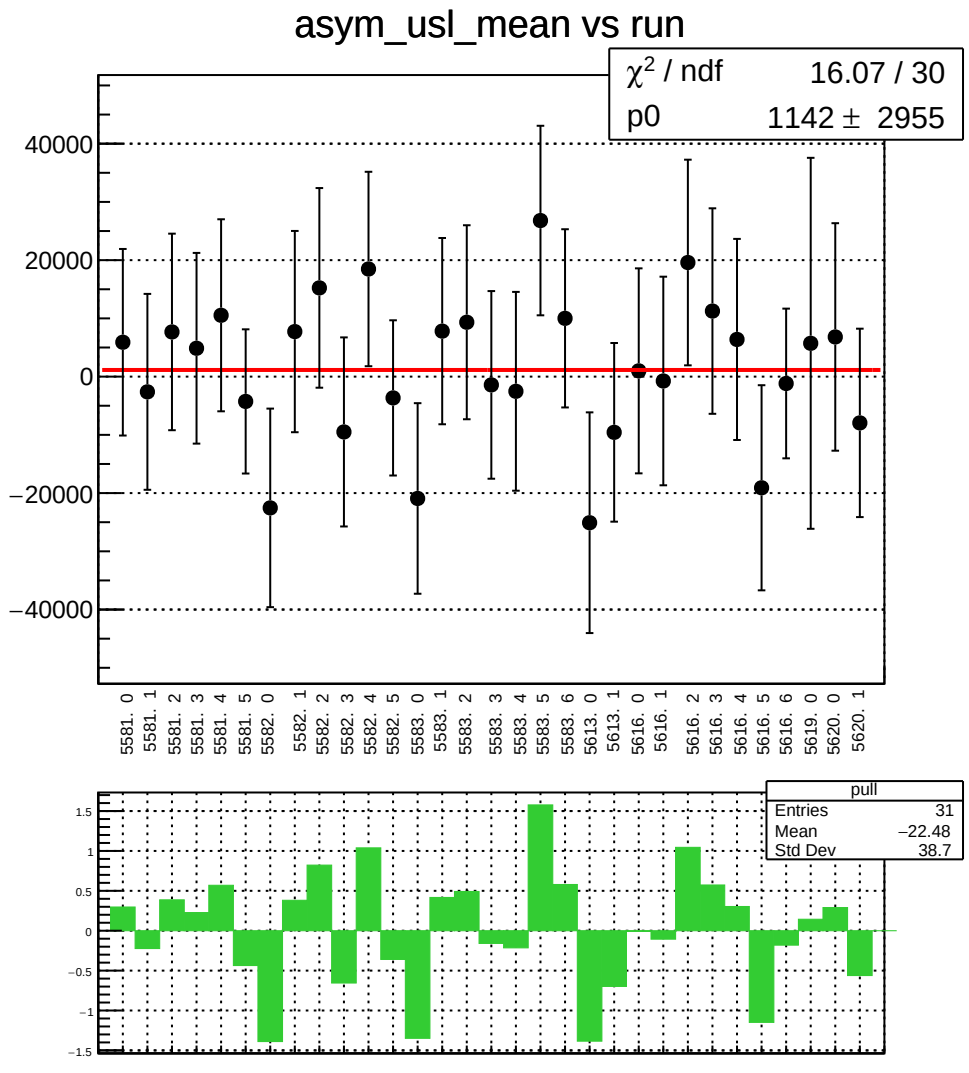

pull1D
Entries 31
Mean 0.02799
Std Dev 0.9231
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

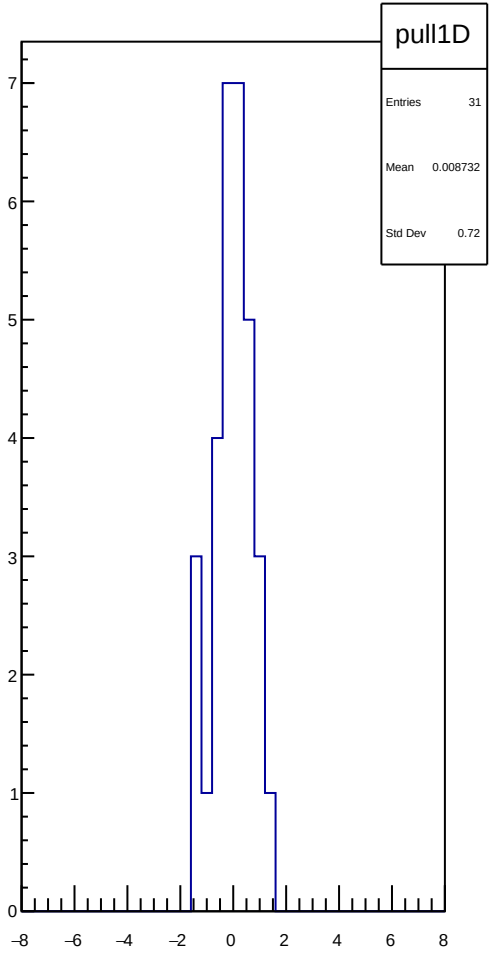

dit_asym_usl_rms vs run
χ² / ndf 249 / 30
p0 1111 ± 1.427
1180
1160
1140
1120
1100
1080
1060
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

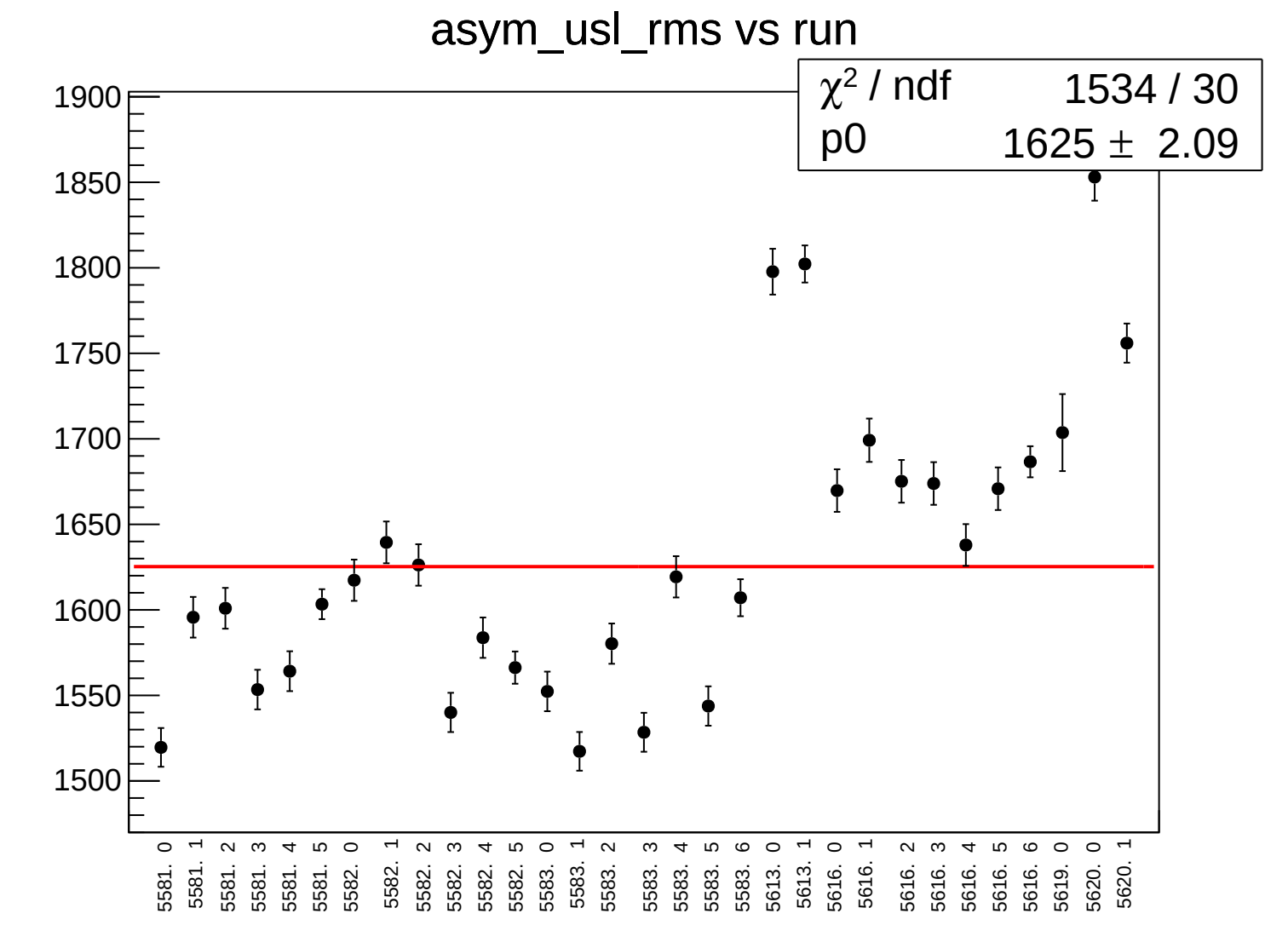

asym_usl_correction_mean vs run
χ² / ndf 26 / 30
p0 −1646 ± 2108
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 277.8
Std Dev 262.6
1.5
1
0.5
0
−0.5
−1
−1.5

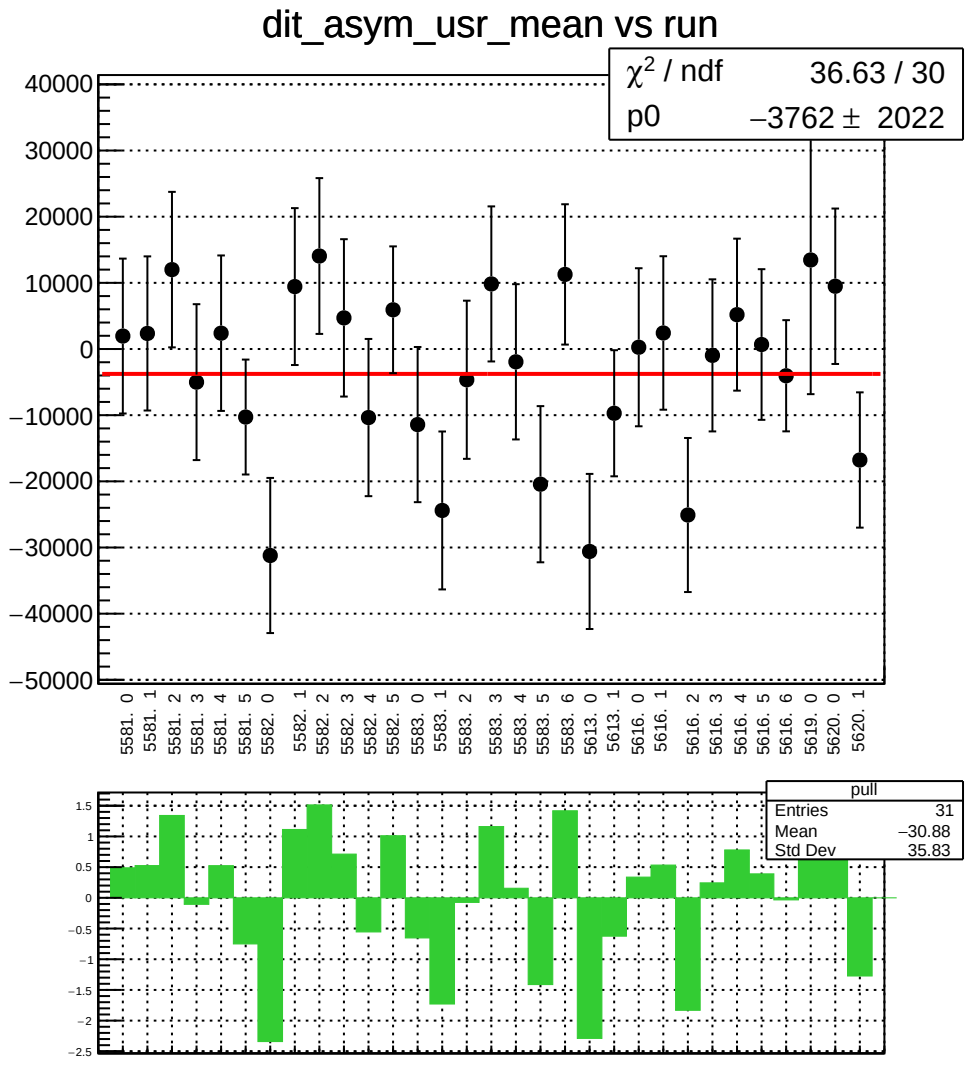

pull1D
Entries 31
Mean −0.004977
Std Dev 0.9158
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

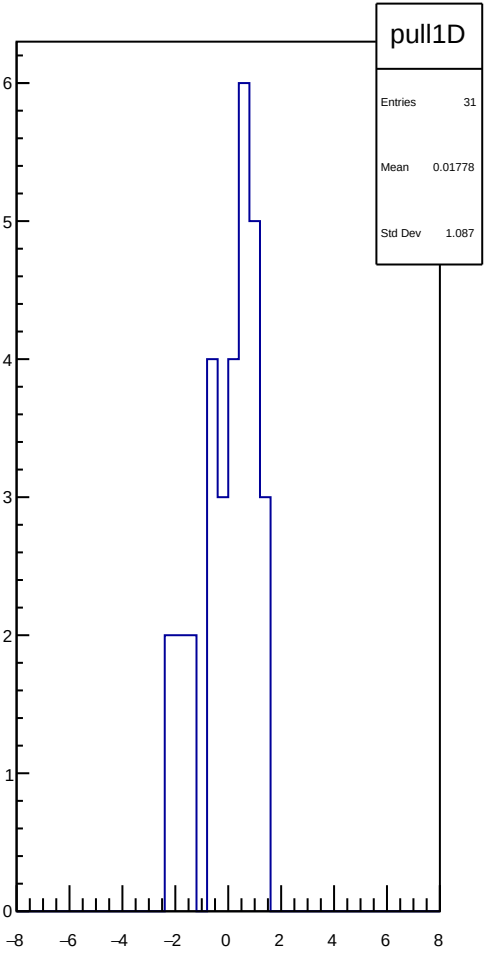

asym_usl_correction_rms vs run
χ² / ndf 2044 / 30
p0 1159 ± 1.49
1400
1350
1300
1250
1200
1150
1100
1050
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

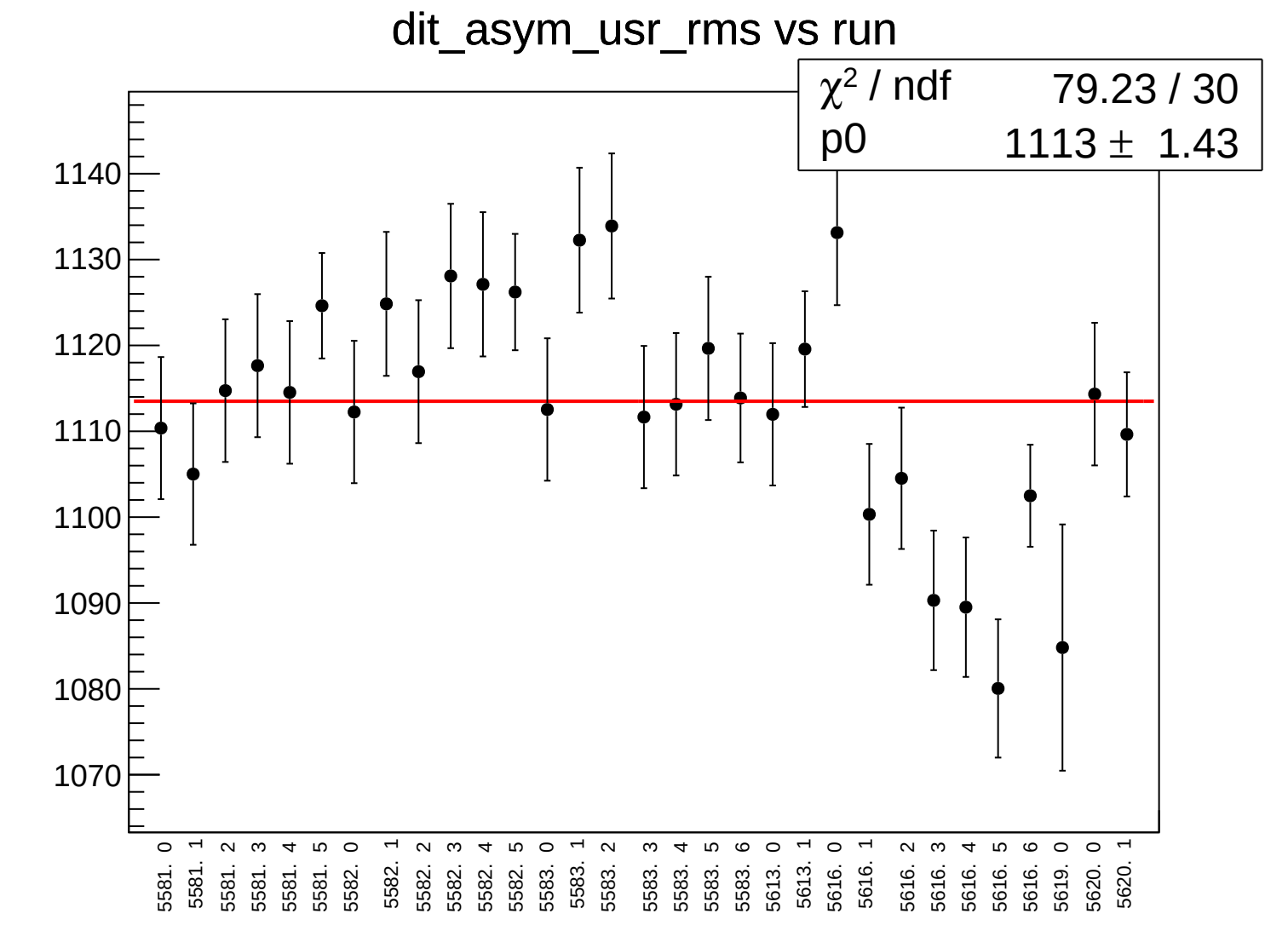

asym_usl_mean vs run
χ² / ndf 16.07 / 30
p0 1142 ± 2955
40000
20000
0
−20000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −22.48
Std Dev 38.7
1.5
1
0.5
0
−0.5
−1
−1.5

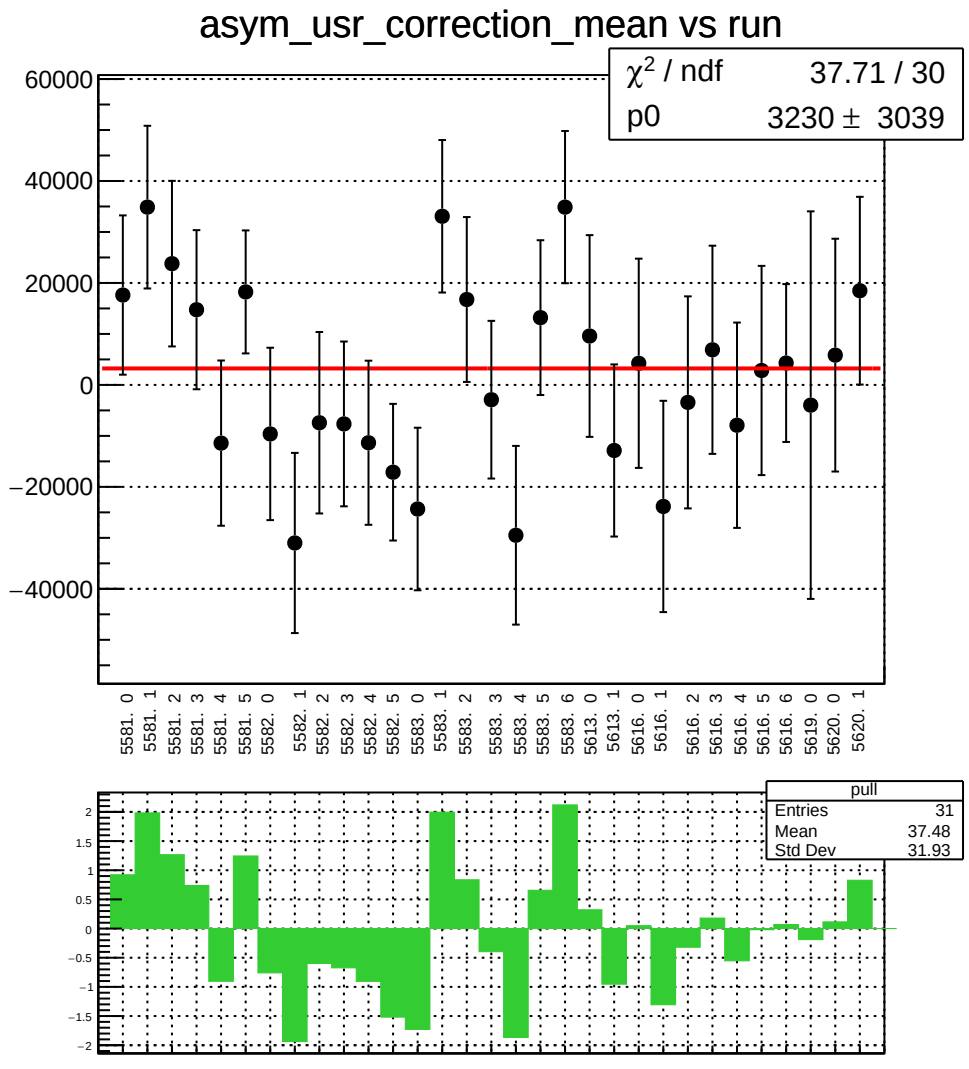

pull1D
Entries 31
Mean 0.008732
Std Dev 0.72
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

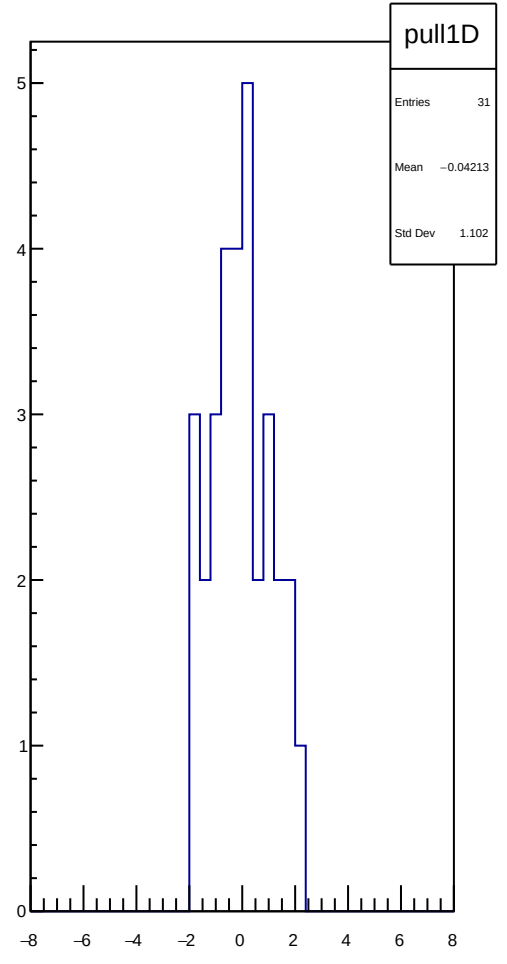

asym_usl_rms vs run
χ² / ndf 1534 / 30
p0 1625 ± 2.09
1900
1850
1800
1750
1700
1650
1600
1550
1500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

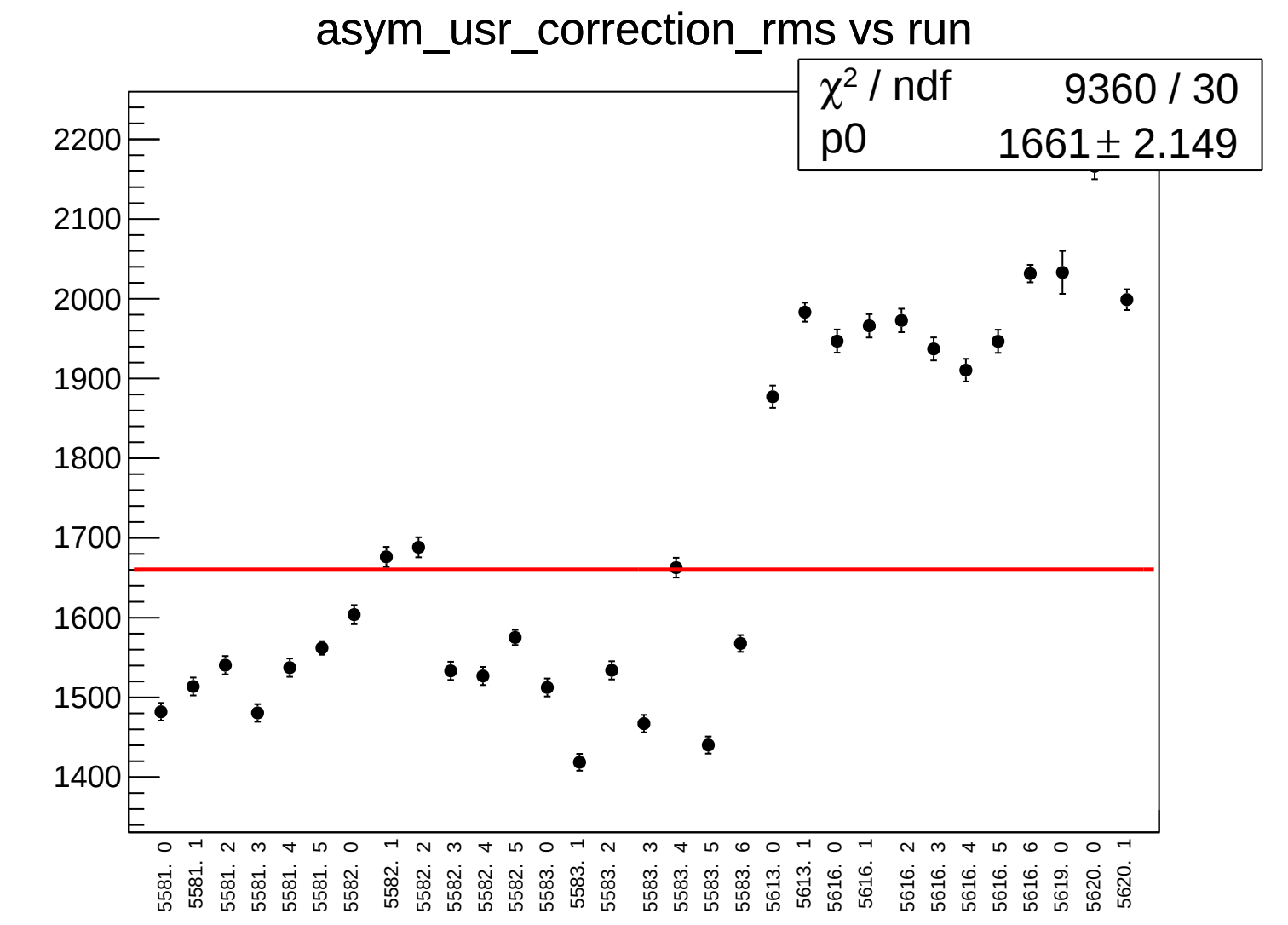

dit_asym_usr_mean vs run
χ² / ndf 36.63 / 30
p0 −3762 ± 2022
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −30.88
Std Dev 35.83
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

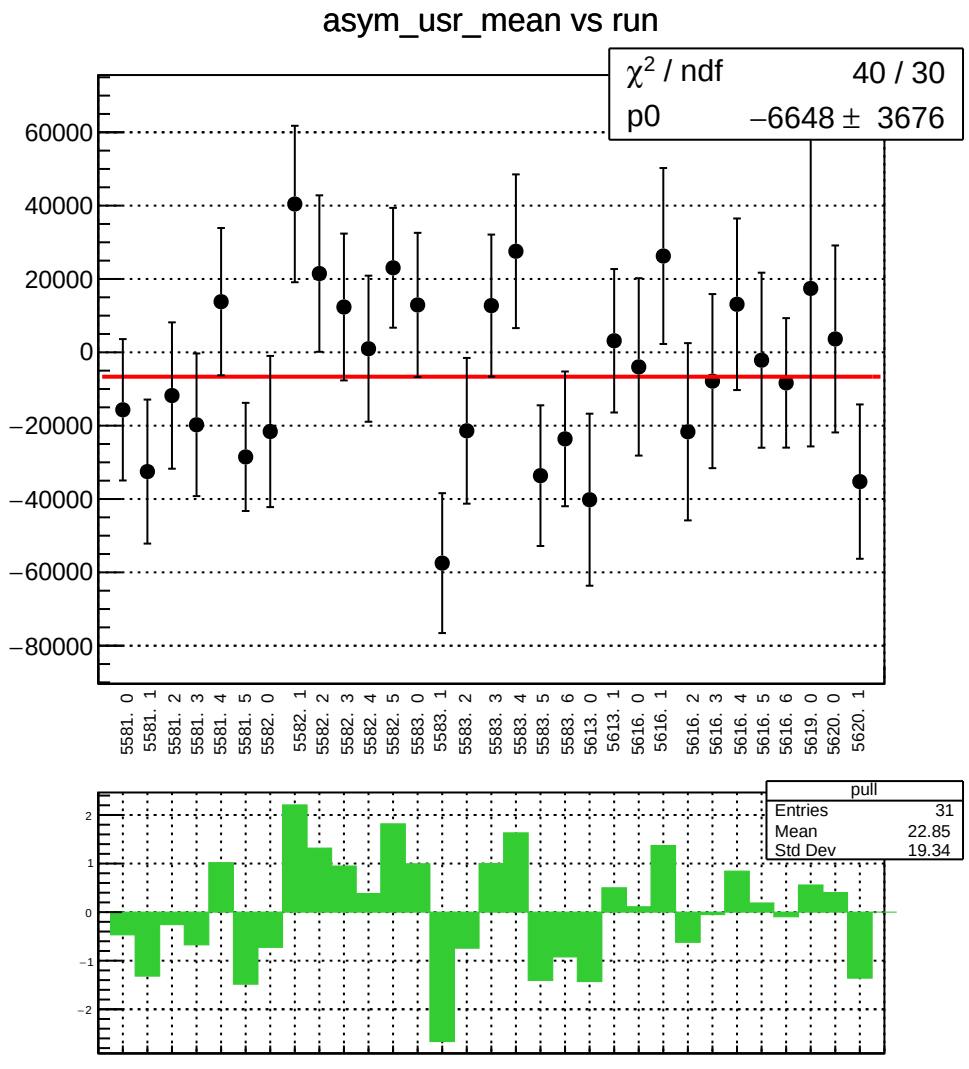

pull1D
Entries 31
Mean 0.01778
Std Dev 1.087
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

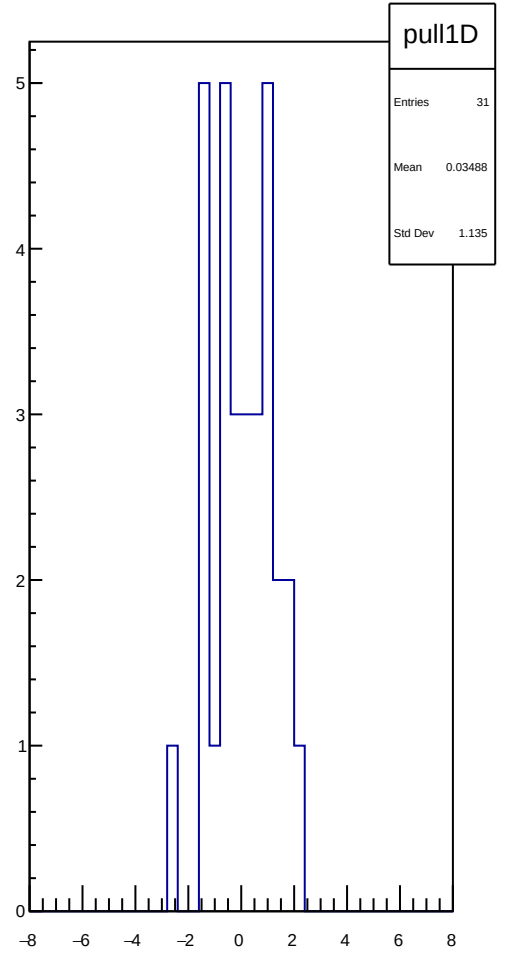

dit_asym_usr_rms vs run
χ² / ndf 79.23 / 30
p0 1113 ± 1.43
1140
1130
1120
1110
1100
1090
1080
1070
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

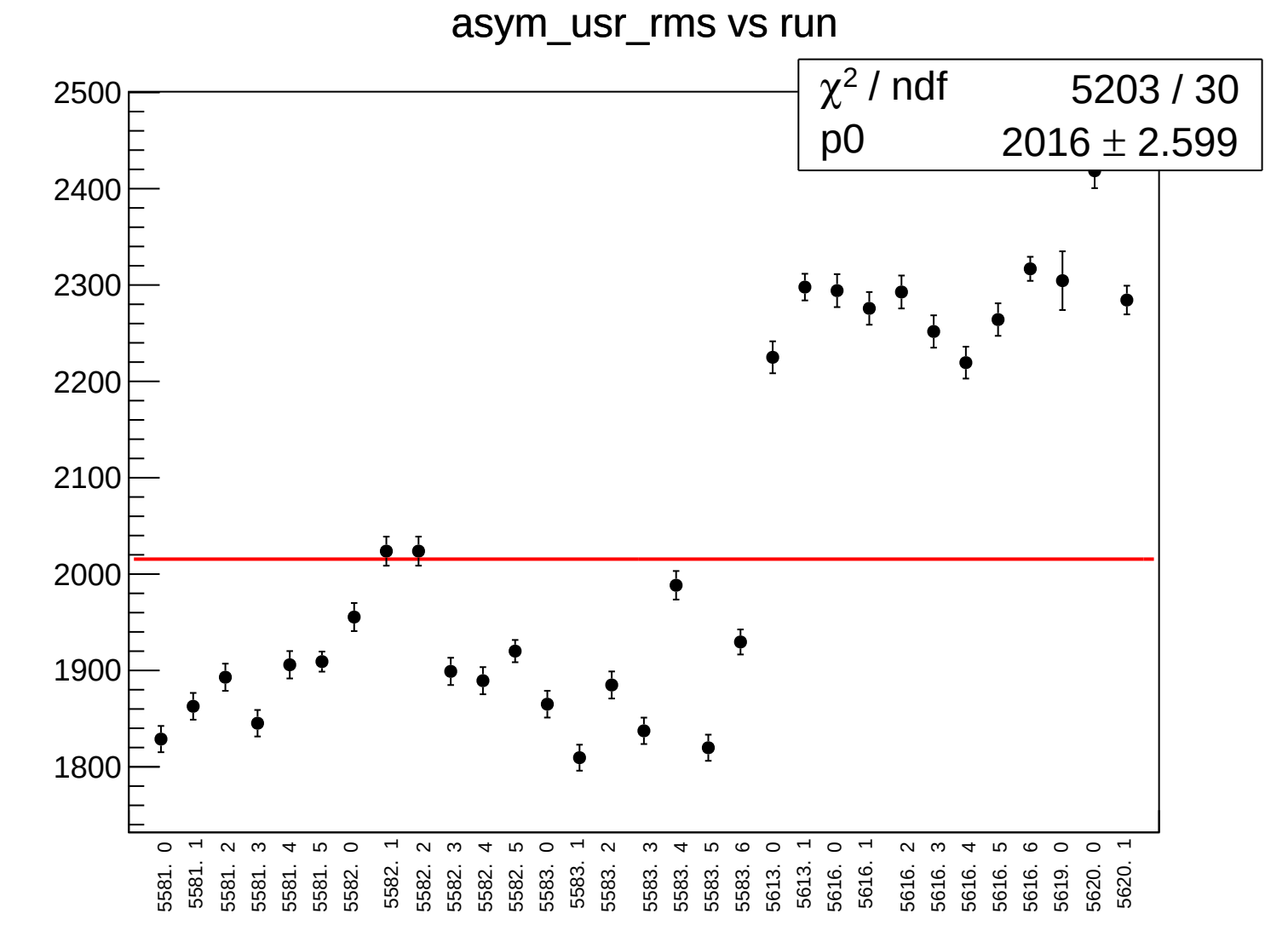

asym_usr_correction_mean vs run
χ² / ndf 37.71 / 30
p0 3230 ± 3039
60000
40000
20000
0
−20000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 37.48
Std Dev 31.93
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

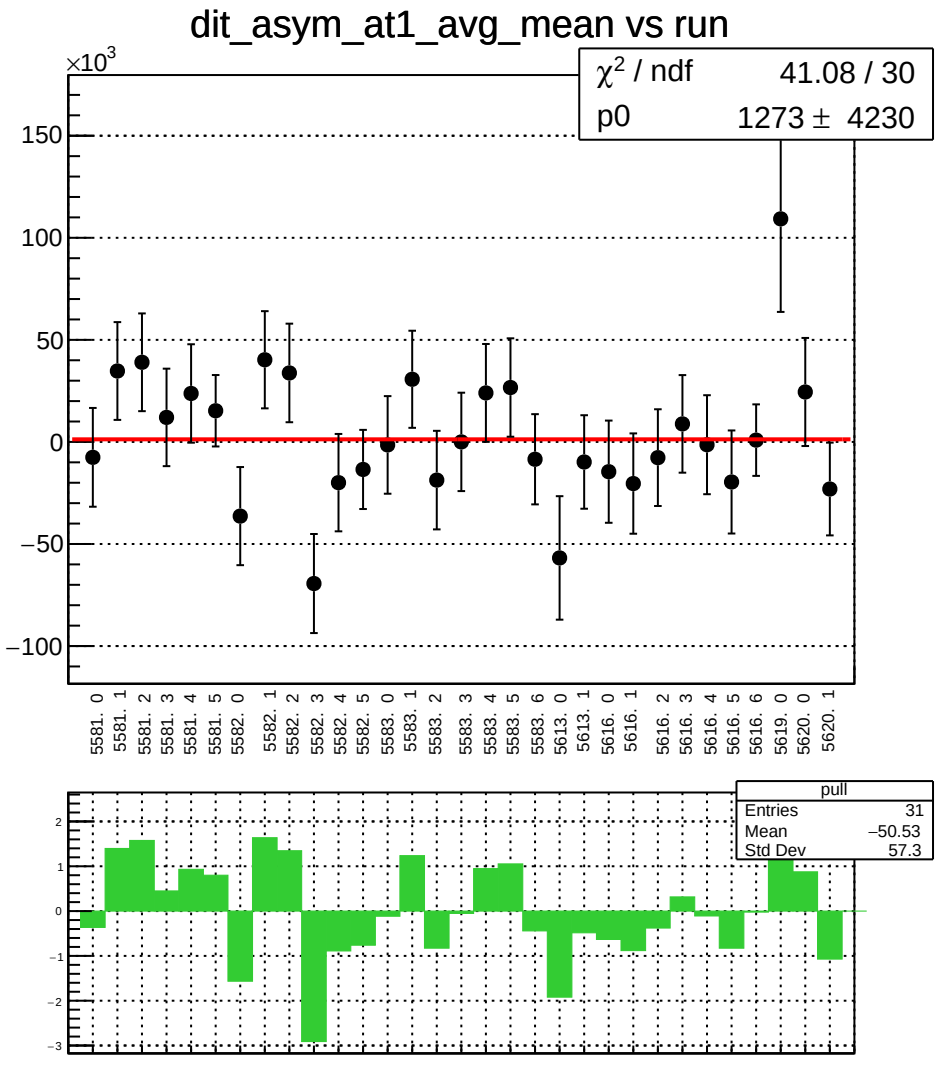

pull1D
Entries 31
Mean −0.04213
Std Dev 1.102
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

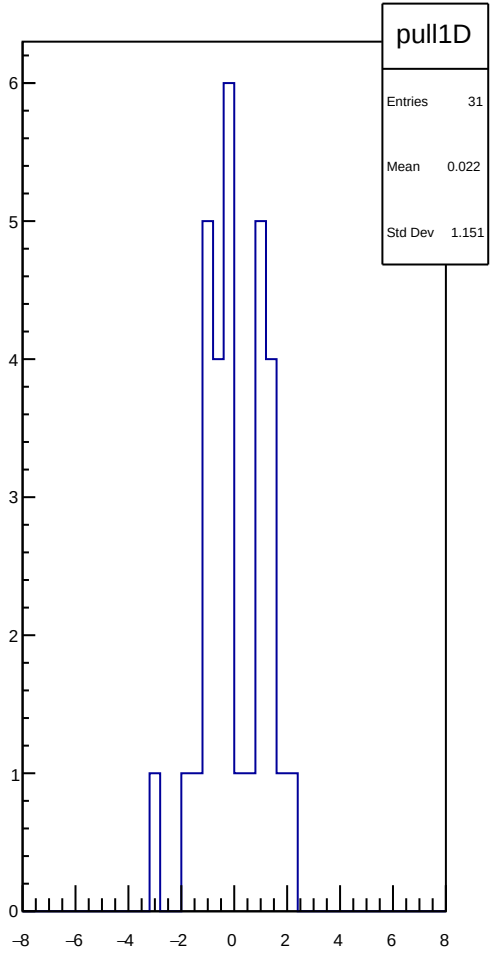

asym_usr_correction_rms vs run
χ² / ndf 9360 / 30
p0 1661 ± 2.149
2200
2100
2000
1900
1800
1700
1600
1500
1400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

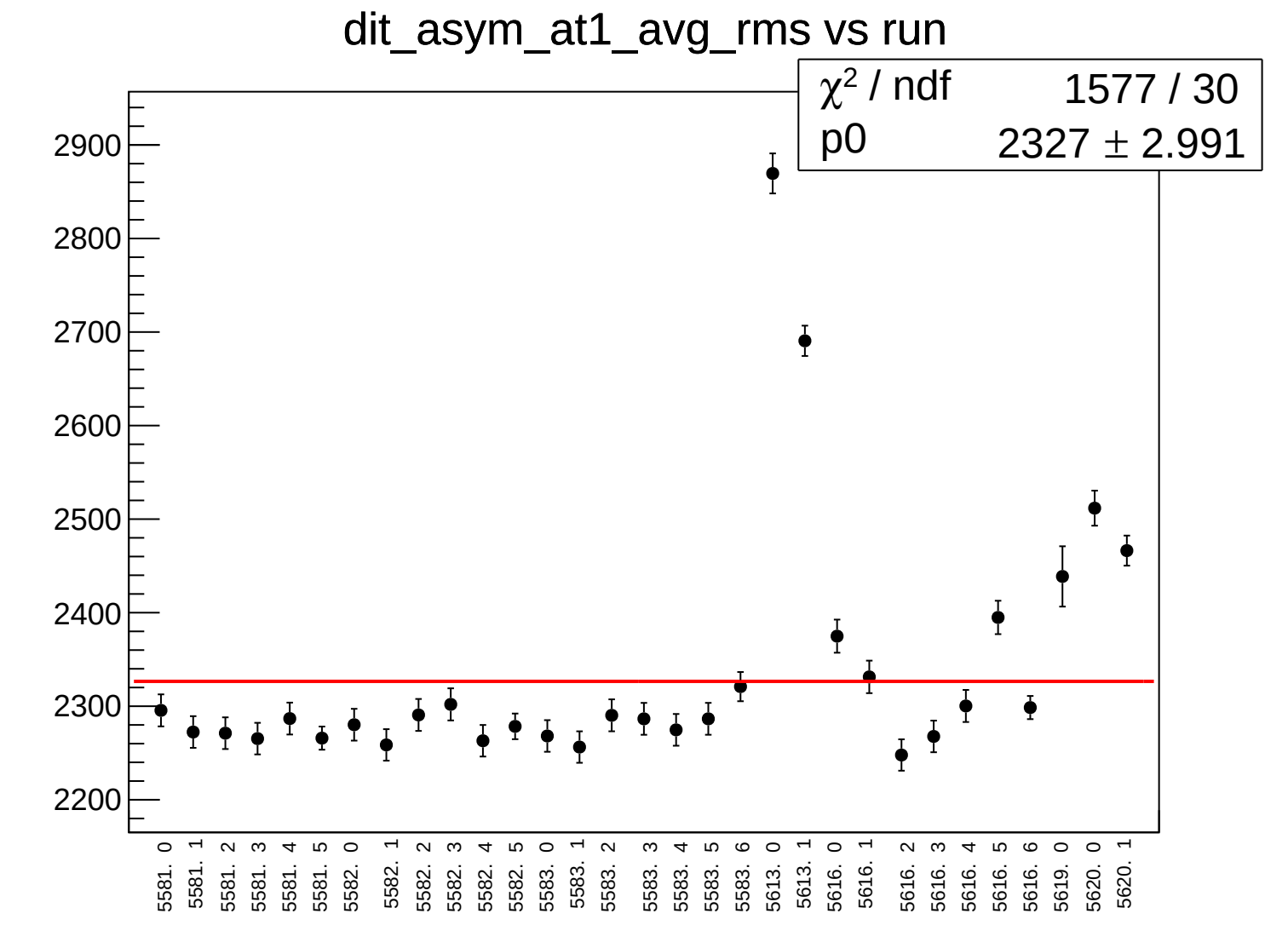

asym_usr_mean vs run
χ² / ndf 40 / 30
p0 −6648 ± 3676
60000
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 22.85
Std Dev 19.34
2
1
0
−1
−2

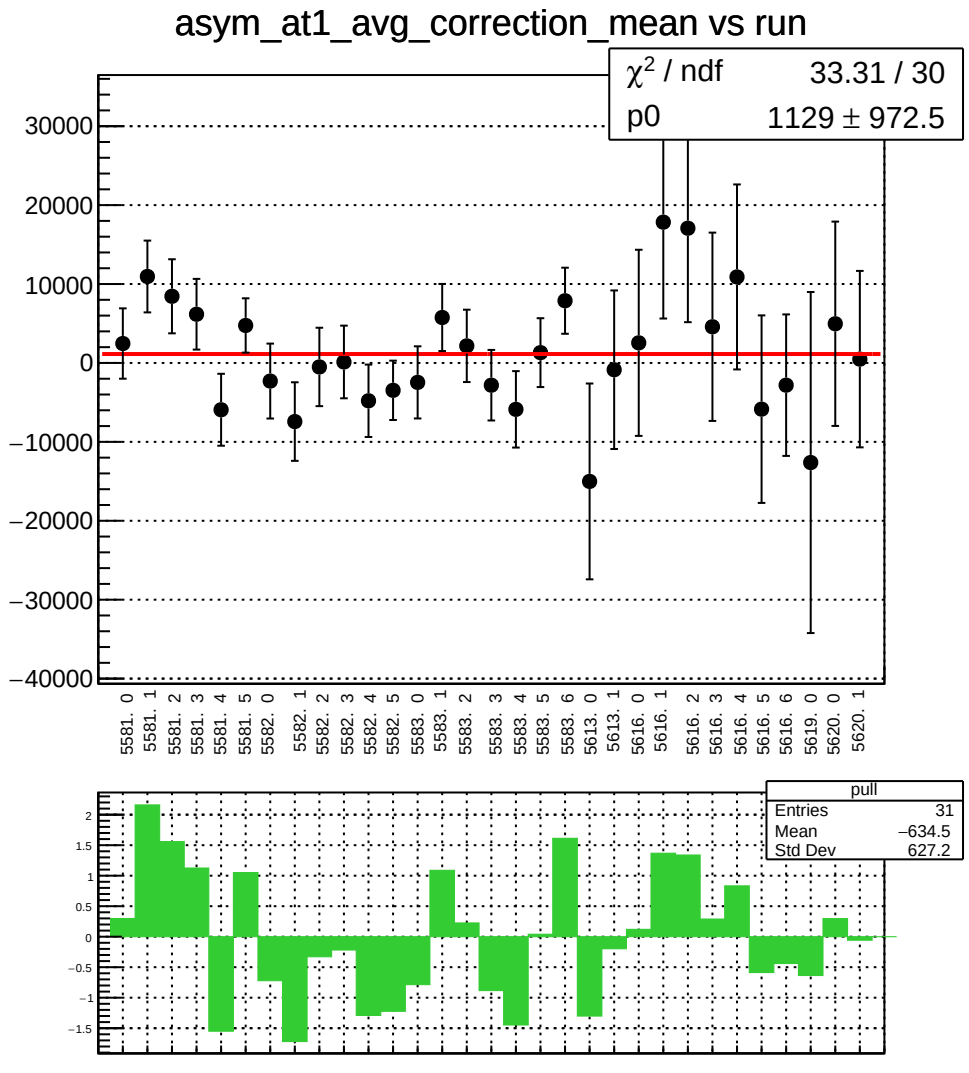

pull1D
Entries 31
Mean 0.03488
Std Dev 1.135
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

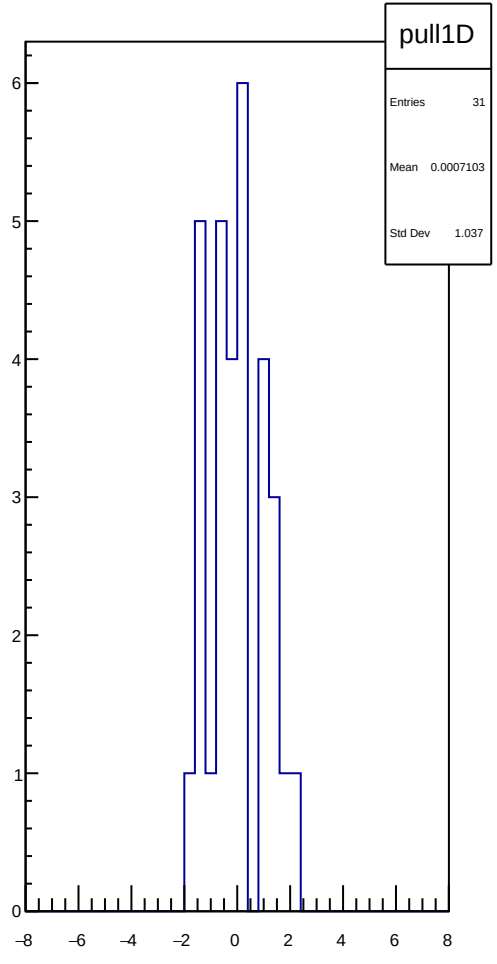

asym_usr_rms vs run
χ² / ndf 5203 / 30
p0 2016 ± 2.599
2500
2400
2300
2200
2100
2000
1900
1800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

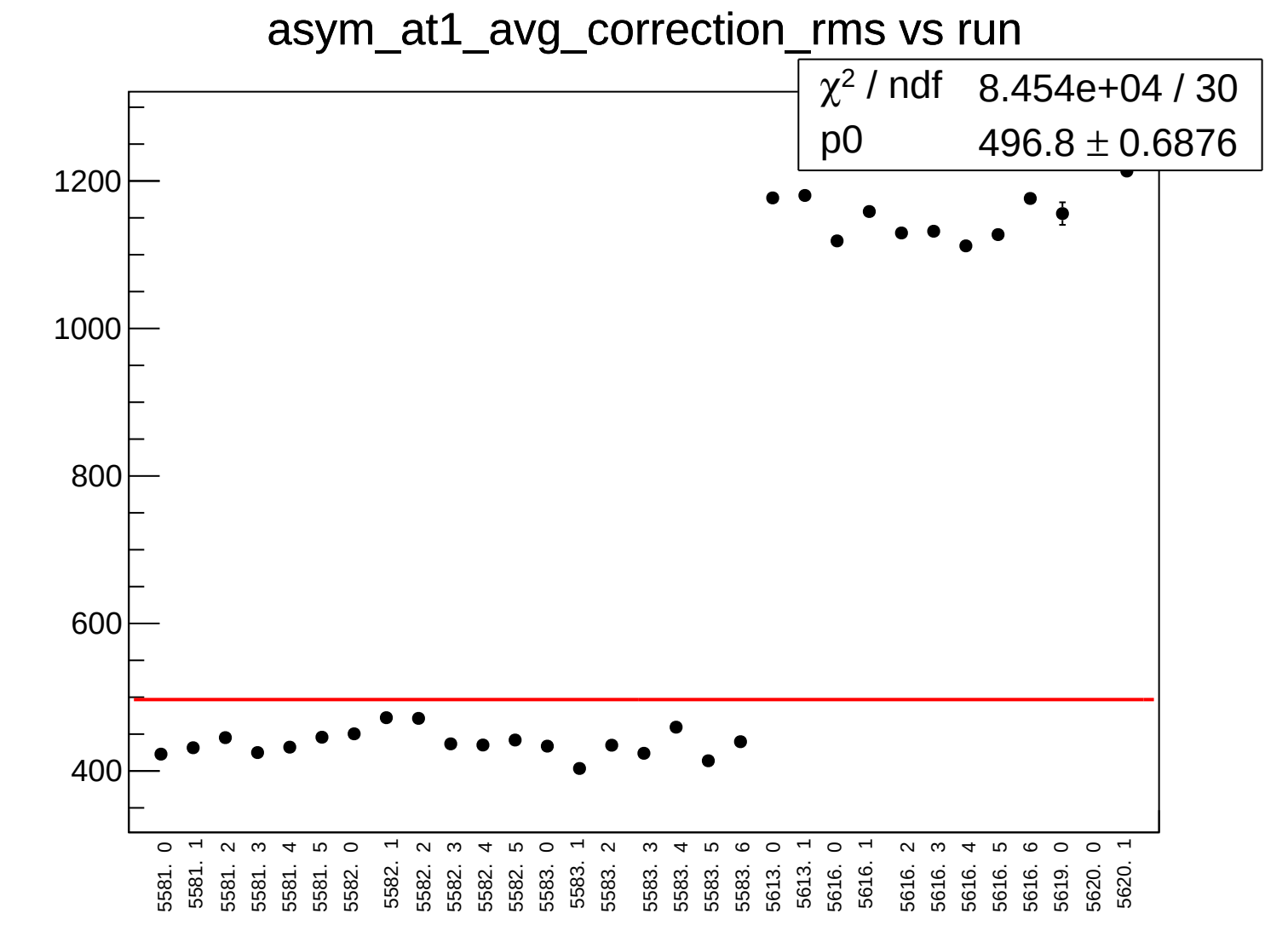

dit_asym_at1_avg_mean vs run
×10^3
χ^2 / ndf 41.08 / 30
p0 1273 ± 4230
150
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −50.53
Std Dev 57.3
2
1
0
−1
−2
−3

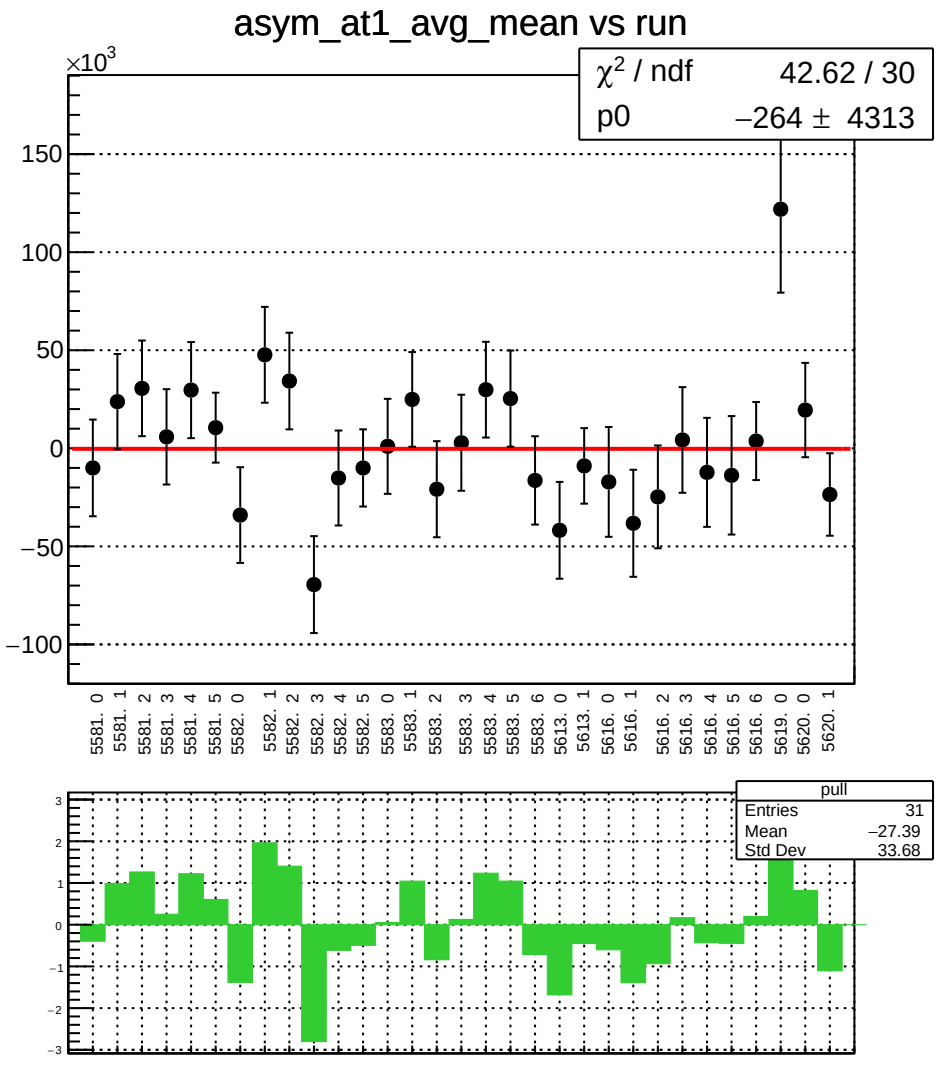

pull1D
Entries 31
Mean 0.022
Std Dev 1.151
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

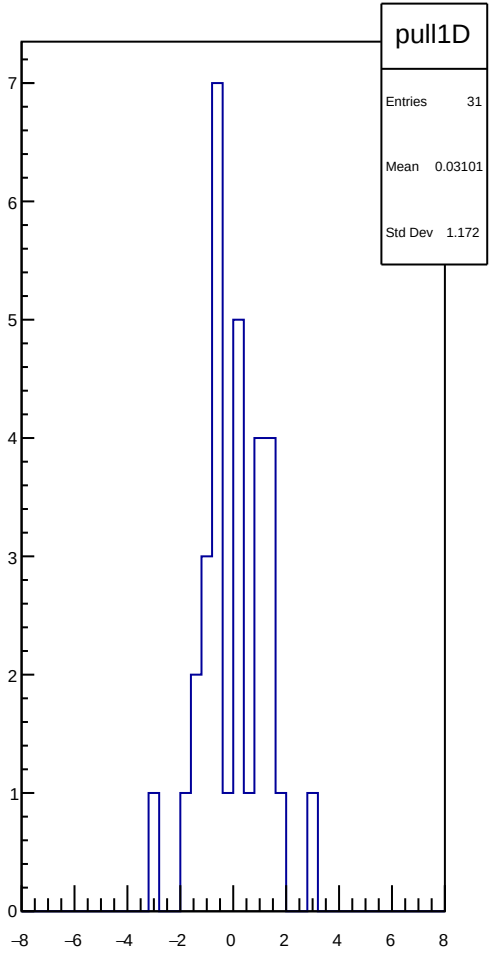

dit_asym_at1_avg_rms vs run
χ² / ndf 1577 / 30
p0 2327 ± 2.991
2900
2800
2700
2600
2500
2400
2300
2200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

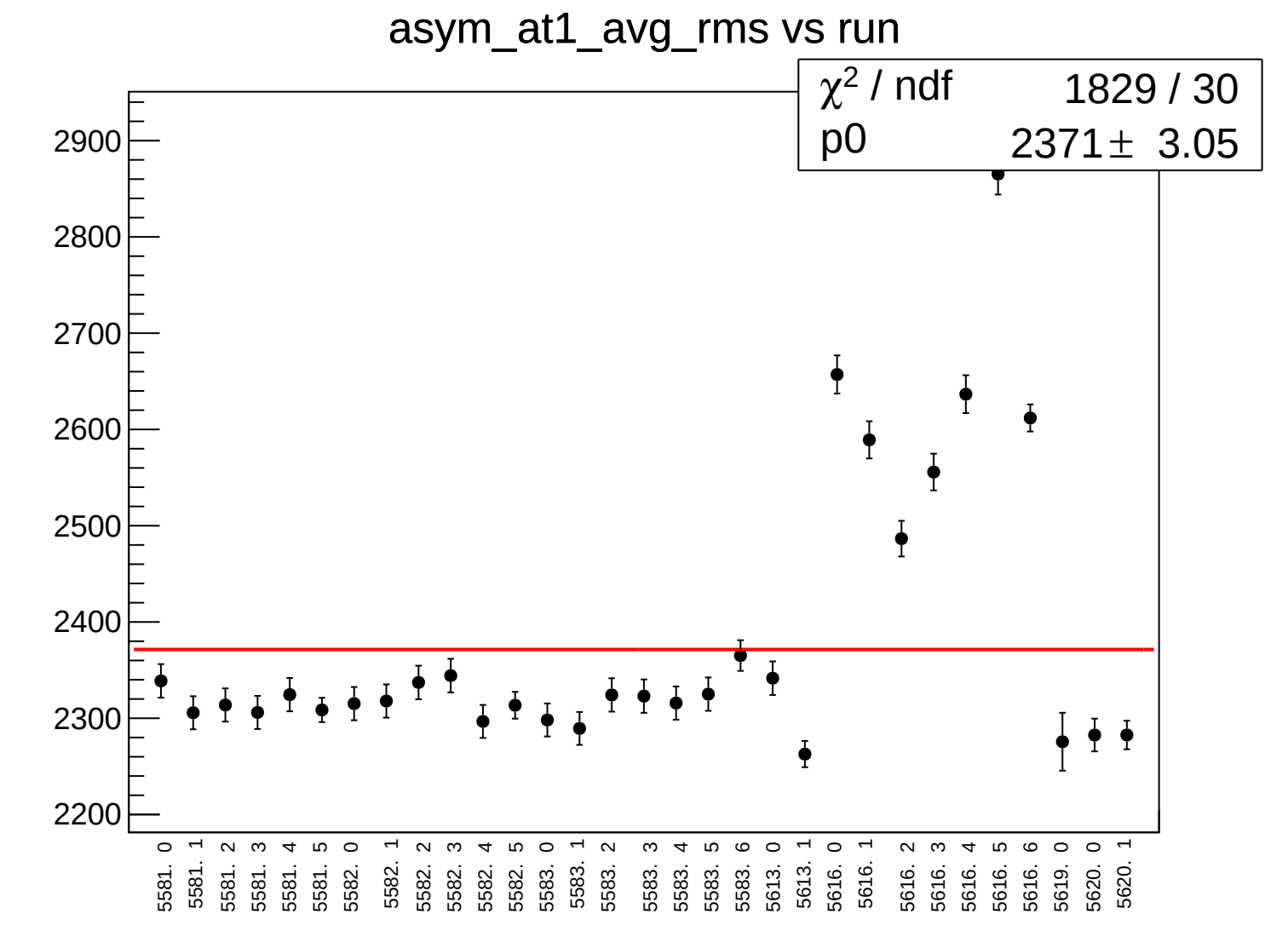

asym_at1_avg_correction_mean vs run
χ² / ndf 33.31 / 30
p0 1129 ± 972.5
30000
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −634.5
Std Dev 627.2
2
1.5
1
0.5
0
−0.5
−1
−1.5

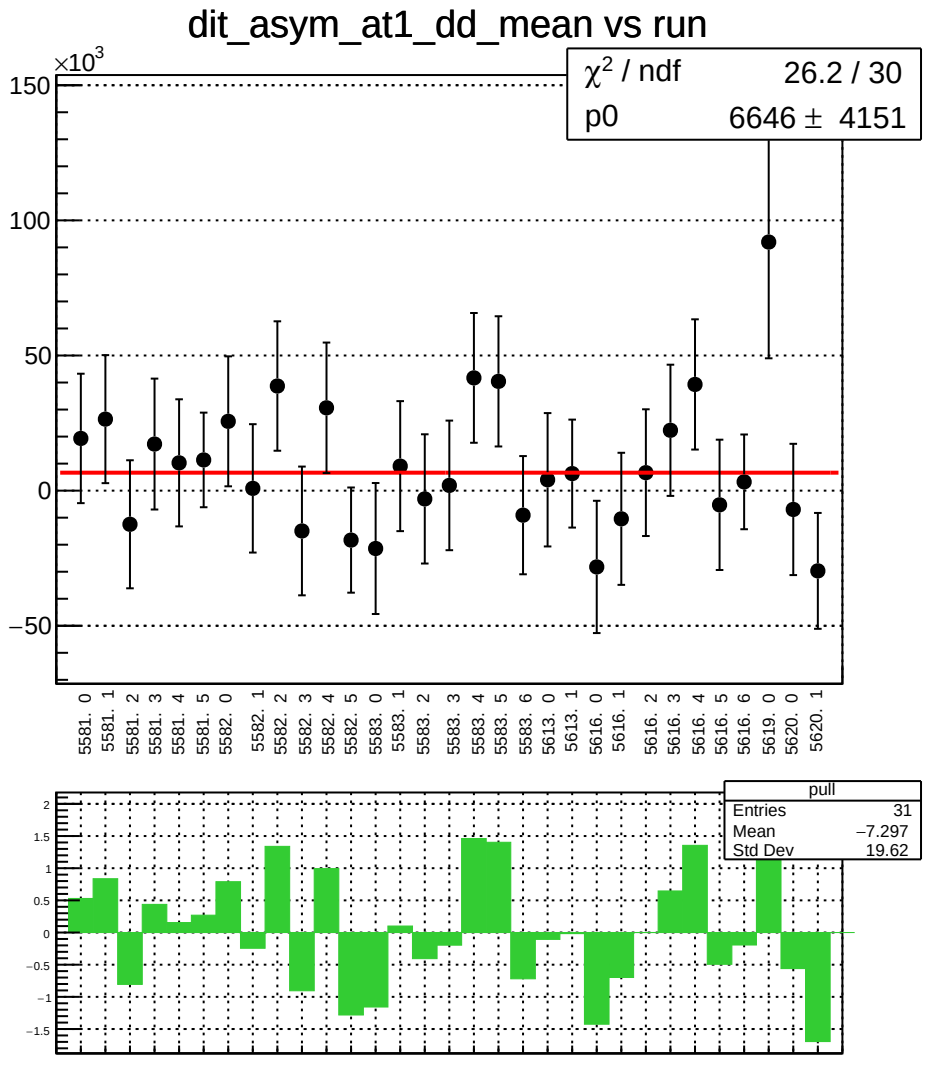

pull1D
Entries 31
Mean 0.0007103
Std Dev 1.037
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

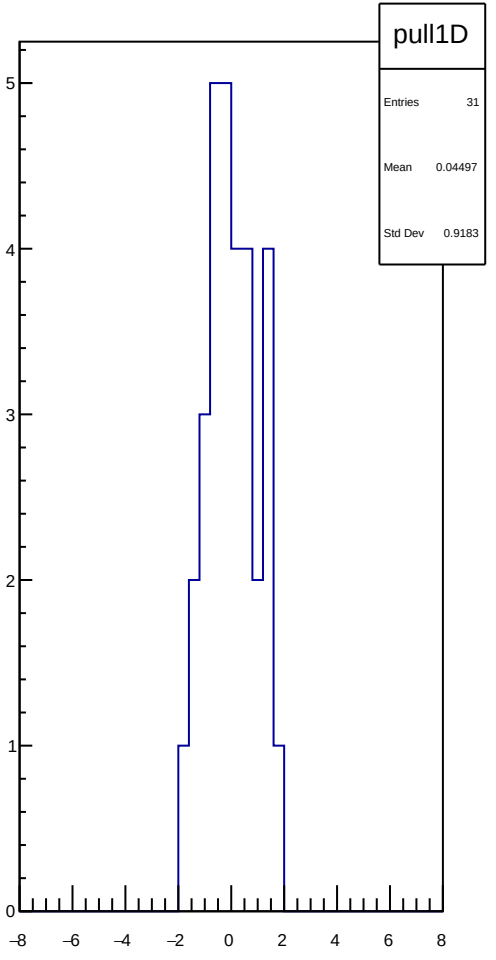

asym_at1_avg_correction_rms vs run
χ² / ndf 8.454e+04 / 30
p0 496.8 ± 0.6876
1200
1000
800
600
400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

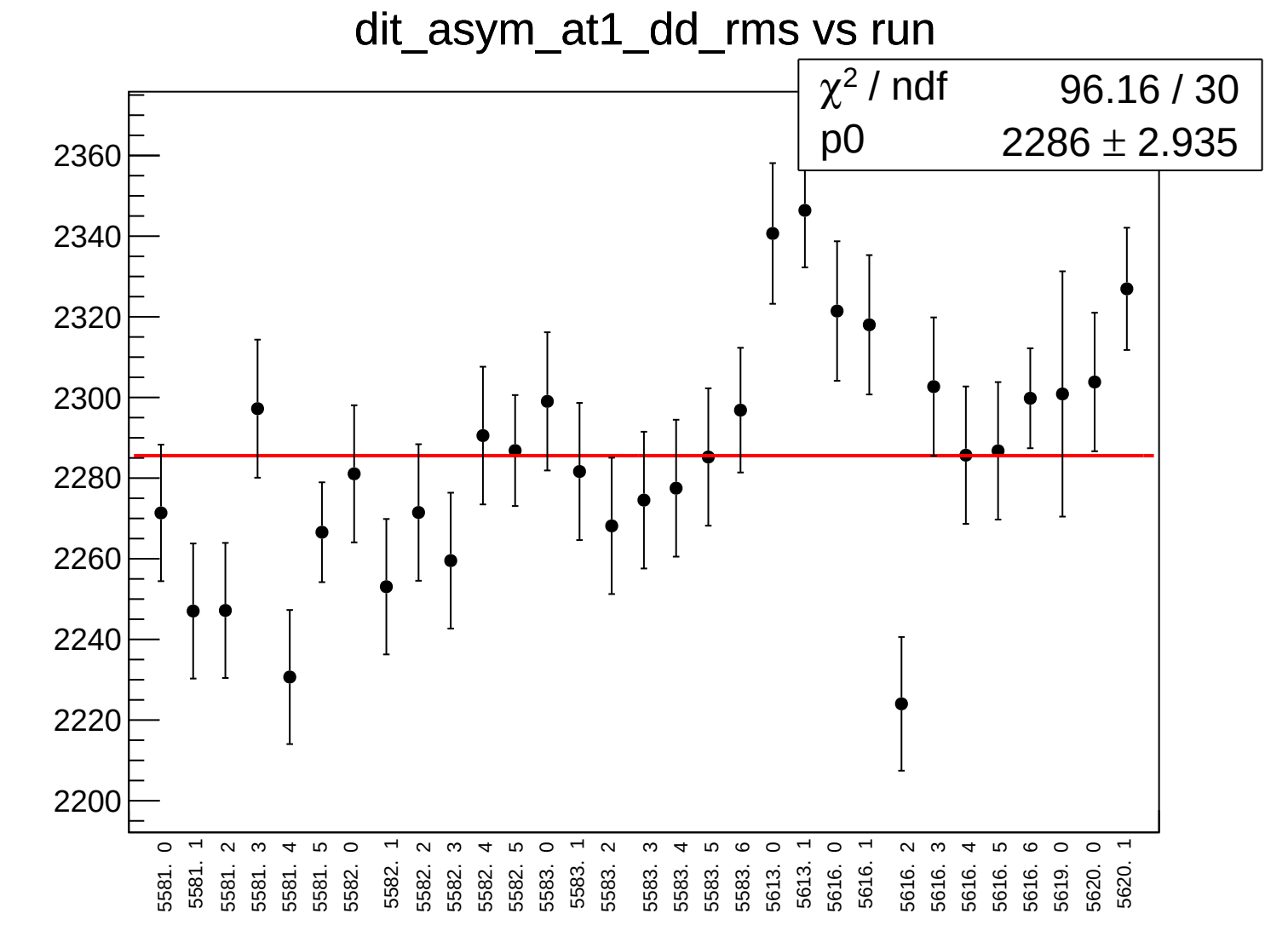

asym_at1_avg_mean vs run
×10^3
χ^2 / ndf 42.62 / 30
p0 −264 ± 4313
150
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −27.39
Std Dev 33.68
3
2
1
0
−1
−2
−3

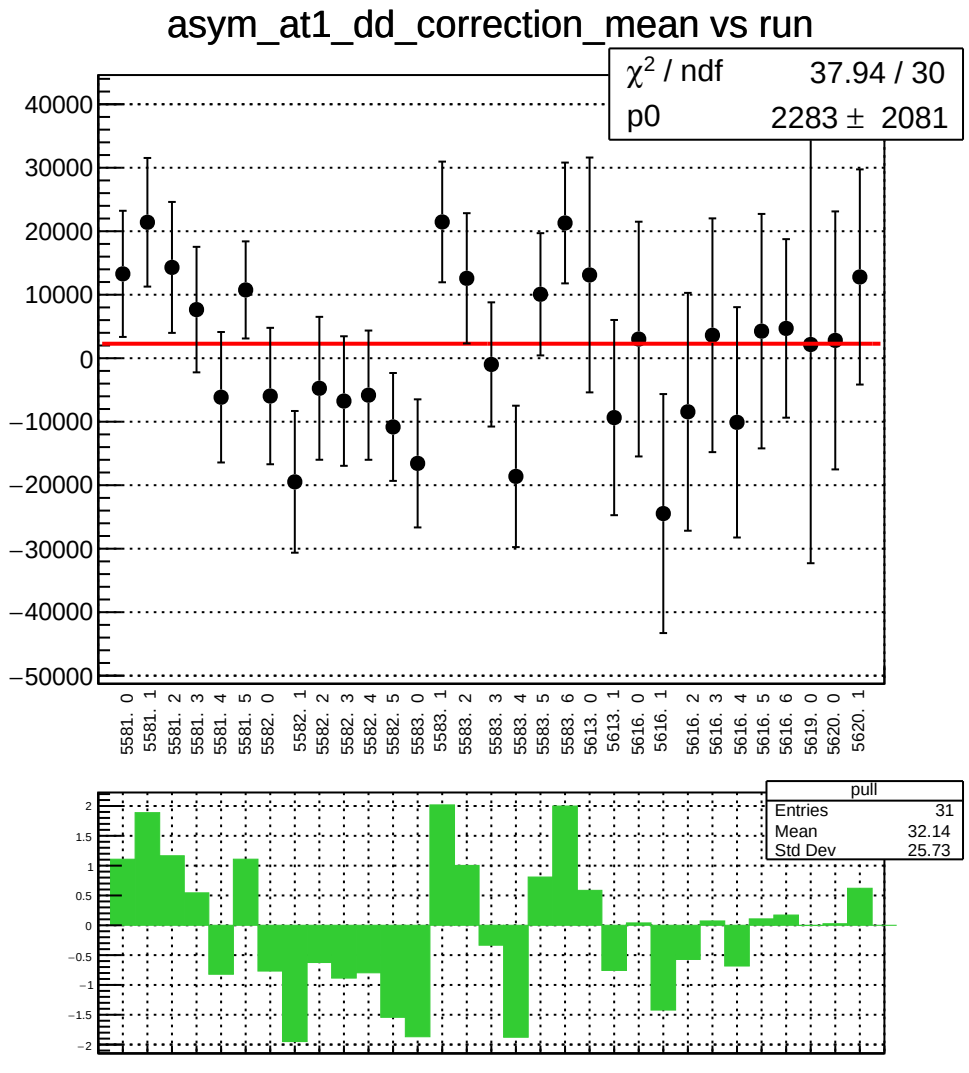

pull1D
Entries 31
Mean 0.03101
Std Dev 1.172
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

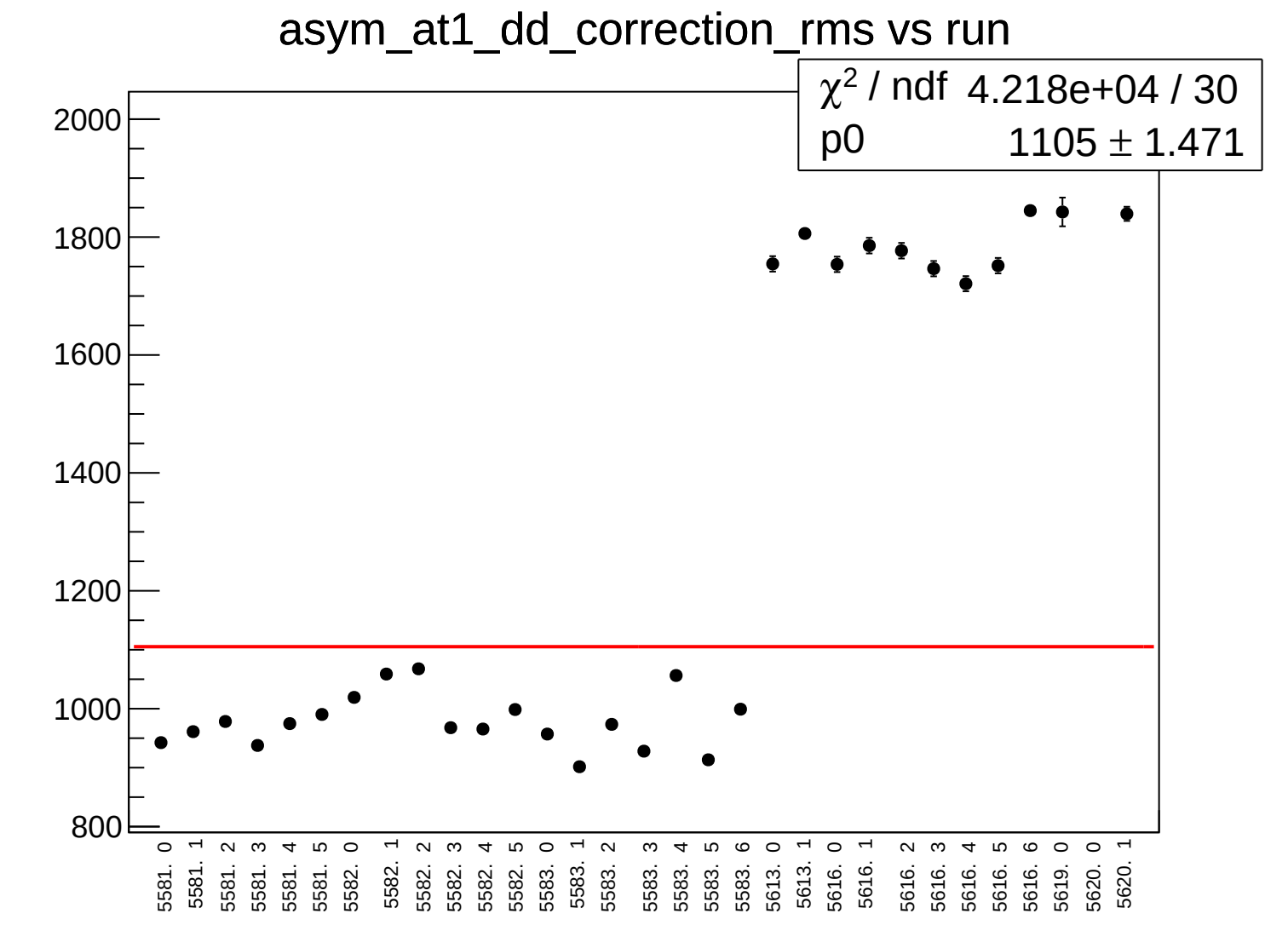

asym_at1_avg_rms vs run
χ² / ndf 1829 / 30
p0 2371 ± 3.05
2900
2800
2700
2600
2500
2400
2300
2200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

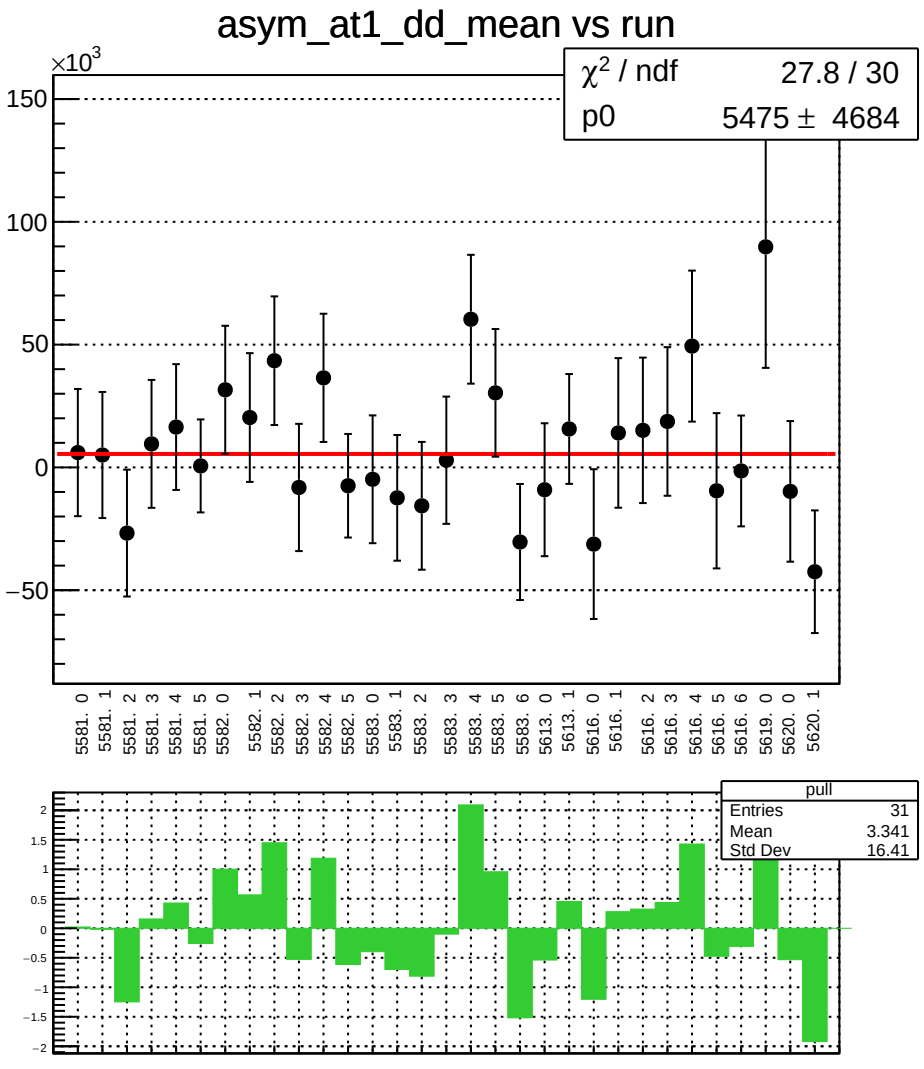

dit_asym_at1_dd_mean vs run
×10^3
χ^2 / ndf 26.2 / 30
p0 6646 ± 4151
150
100
50
0
−50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −7.297
Std Dev 19.62
2
1.5
1
0.5
0
−0.5
−1
−1.5

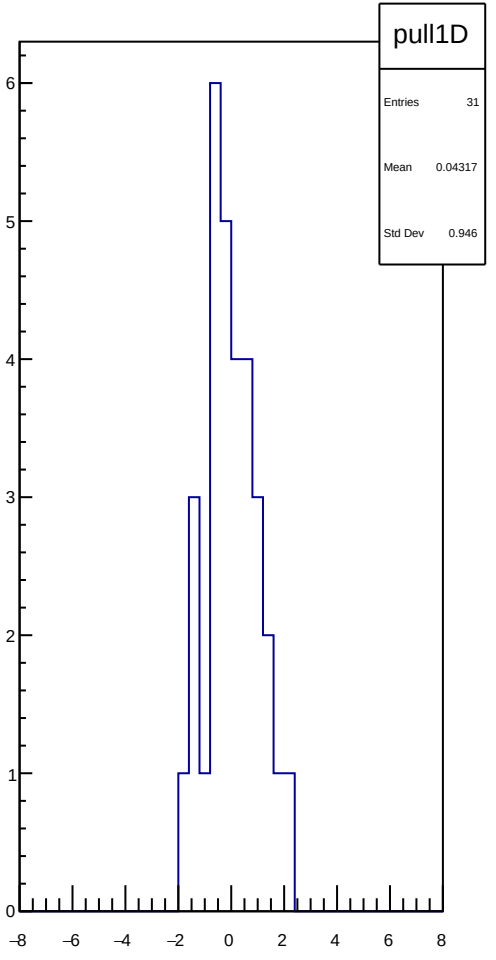

pull1D
Entries 31
Mean 0.04497
Std Dev 0.9183
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

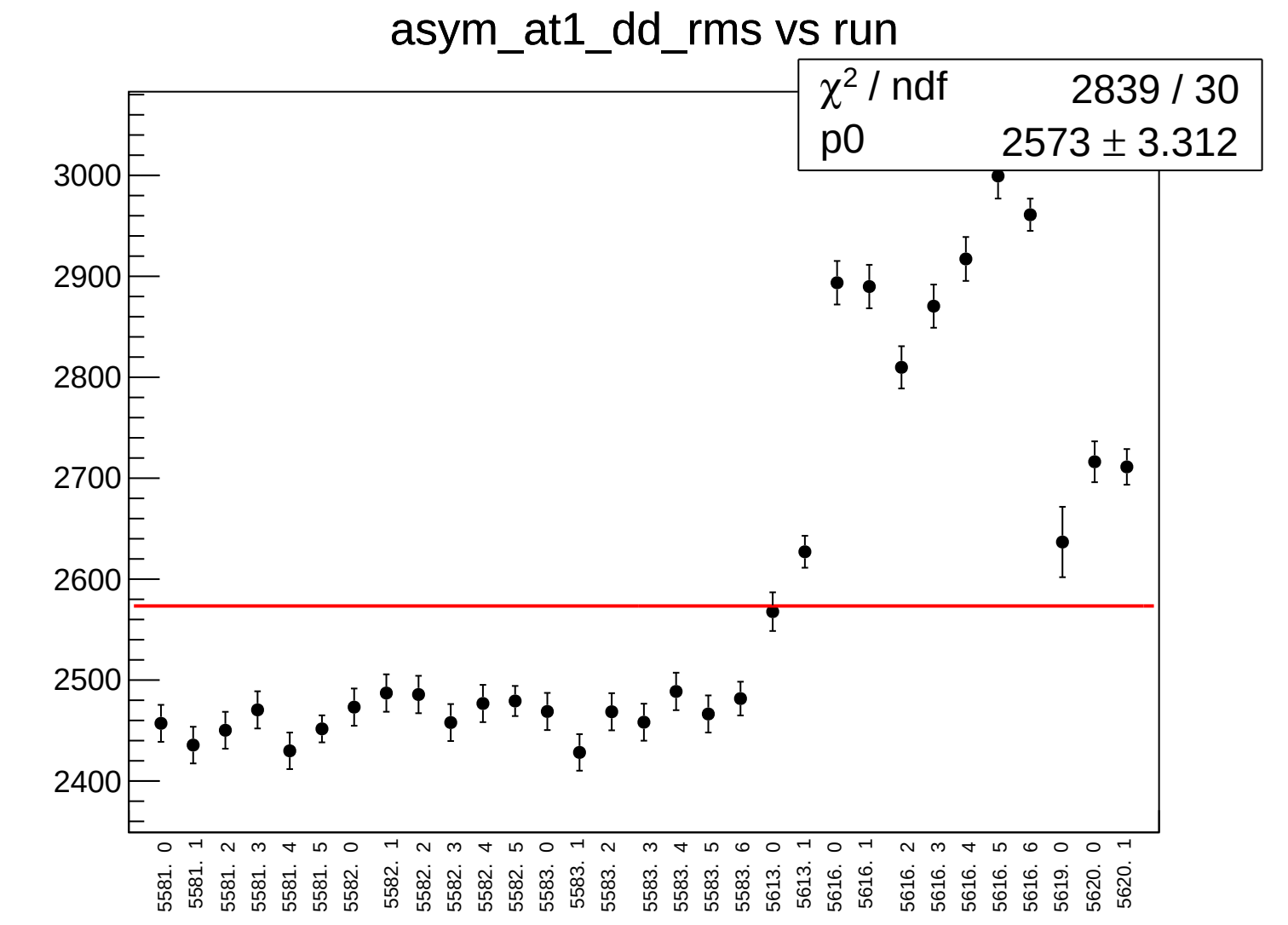

dit_asym_at1_dd_rms vs run
χ² / ndf 96.16 / 30
p0 2286 ± 2.935
2360
2340
2320
2300
2280
2260
2240
2220
2200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

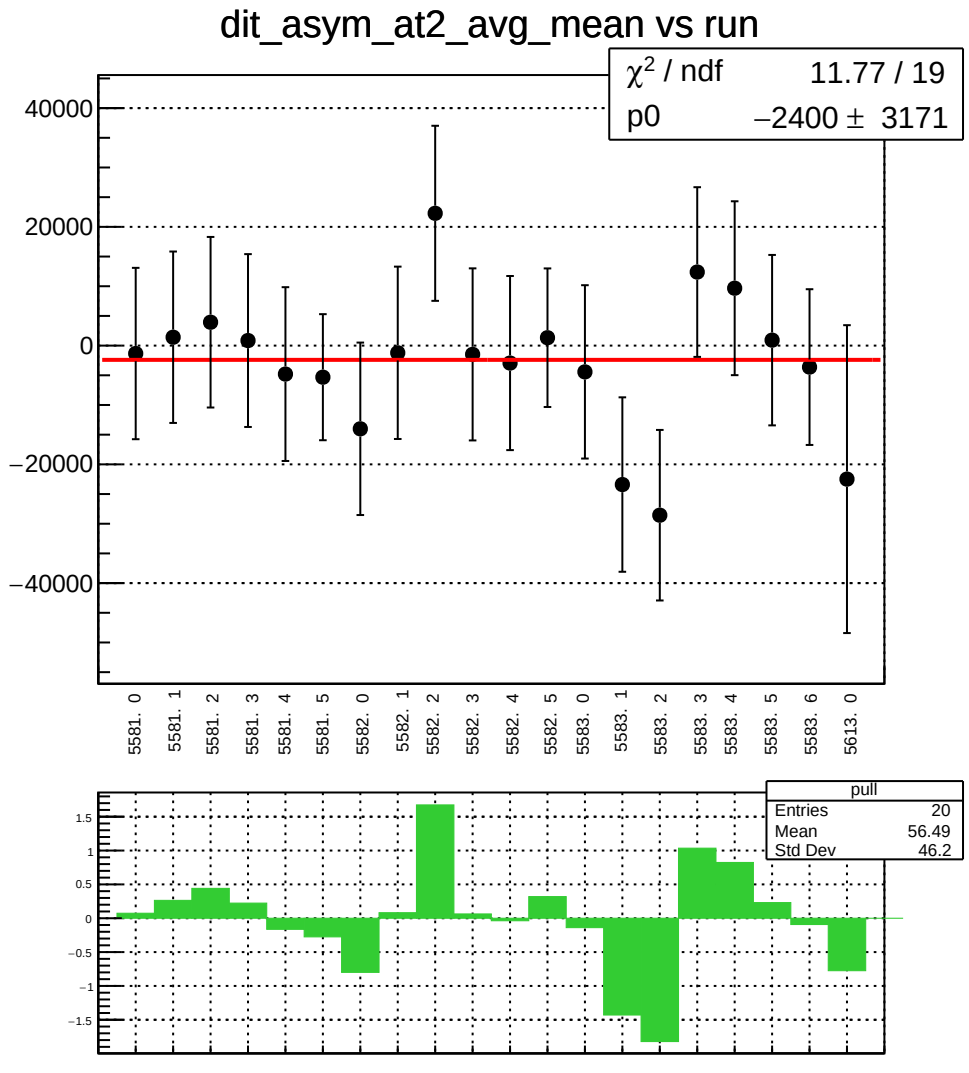

asym_at1_dd_correction_mean vs run
χ² / ndf 37.94 / 30
p0 2283 ± 2081
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 32.14
Std Dev 25.73
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.05271
Std Dev 1.105
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

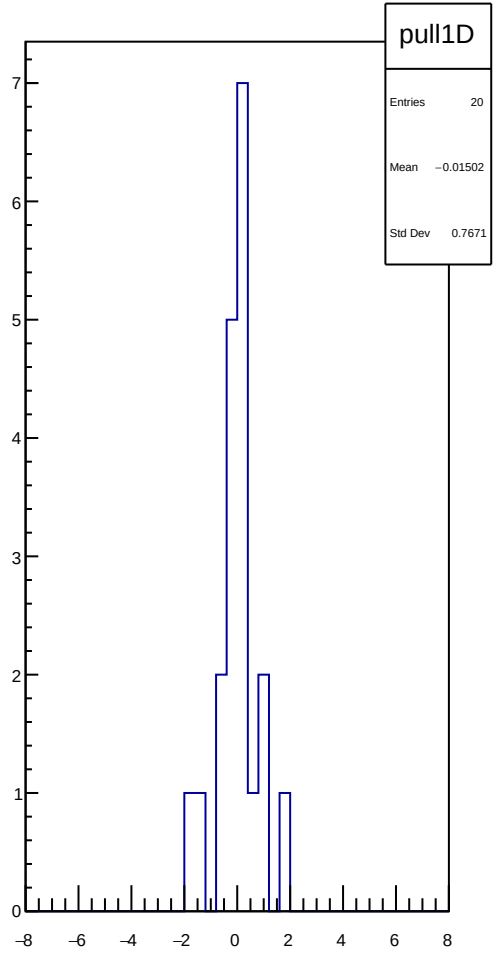

asym_at1_dd_correction_rms vs run
χ² / ndf 4.218e+04 / 30
p0 1105 ± 1.471
2000
1800
1600
1400
1200
1000
800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

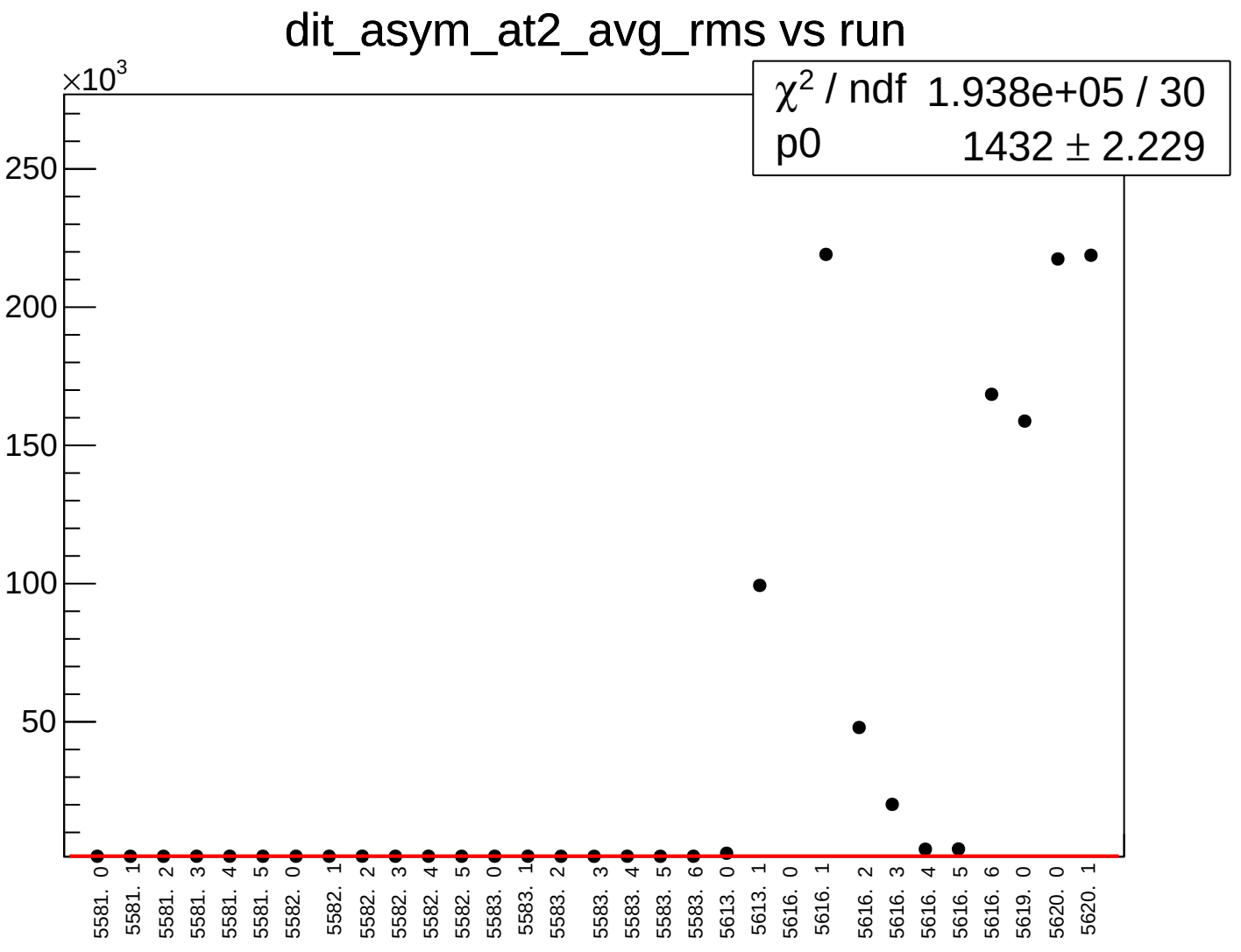

asym_at1_dd_mean vs run
×10^3
χ^2 / ndf 27.8 / 30
p0 5475 ± 4684
150
100
50
0
−50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 3.341
Std Dev 16.41
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

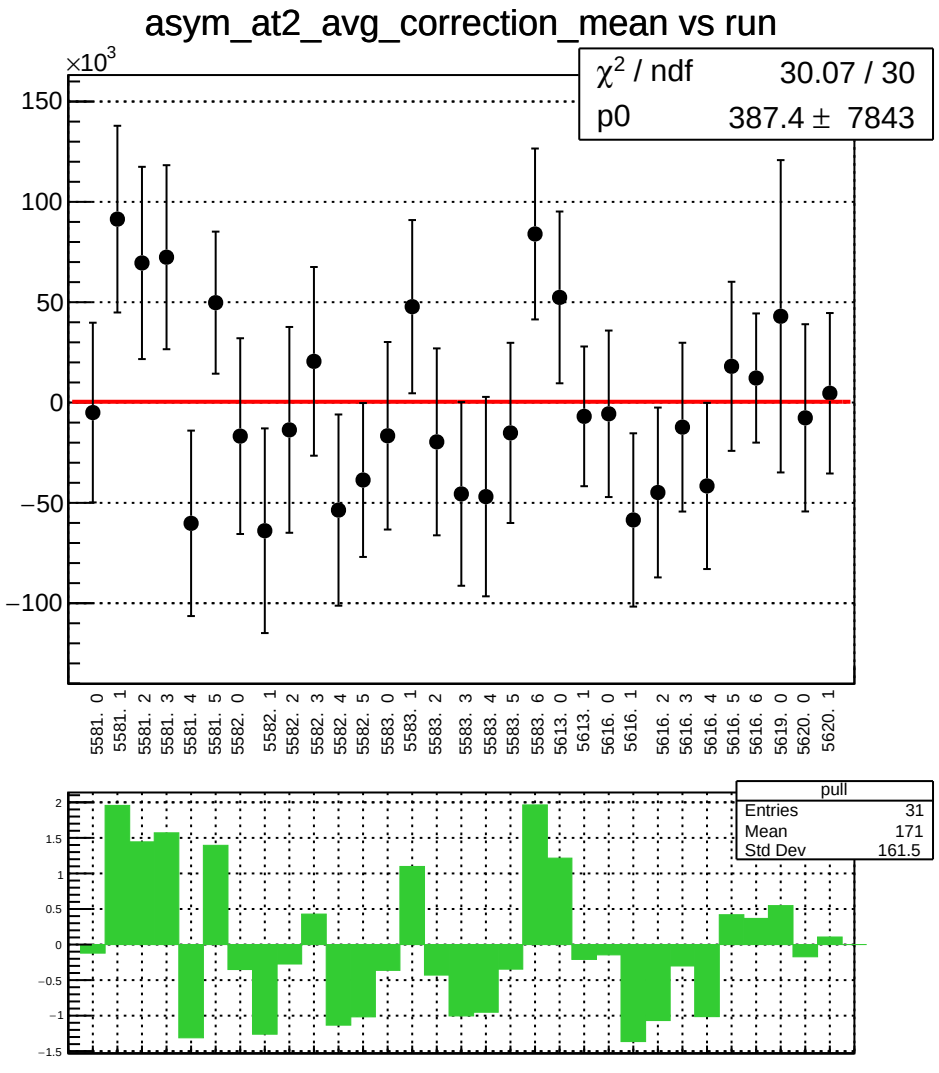

pull1D
Entries 31
Mean 0.04317
Std Dev 0.946
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

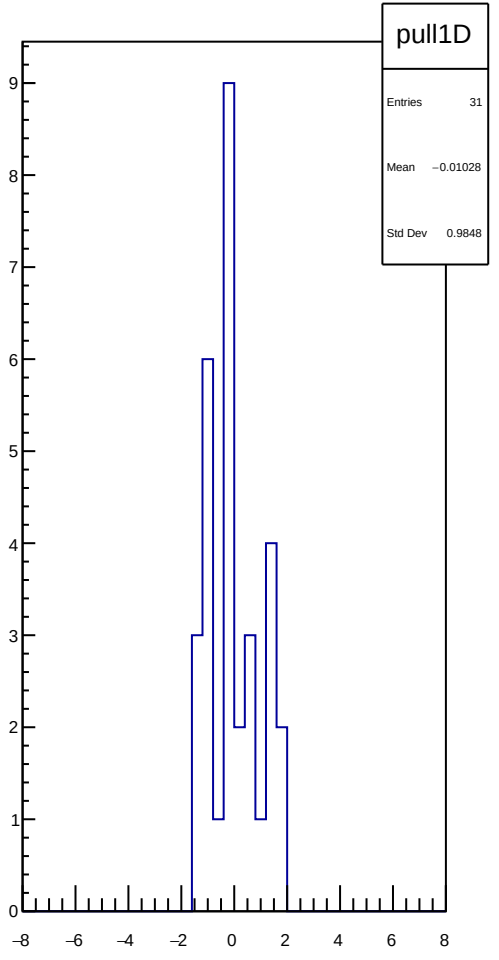

asym_at1_dd_rms vs run
χ² / ndf 2839 / 30
p0 2573 ± 3.312
3000
2900
2800
2700
2600
2500
2400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

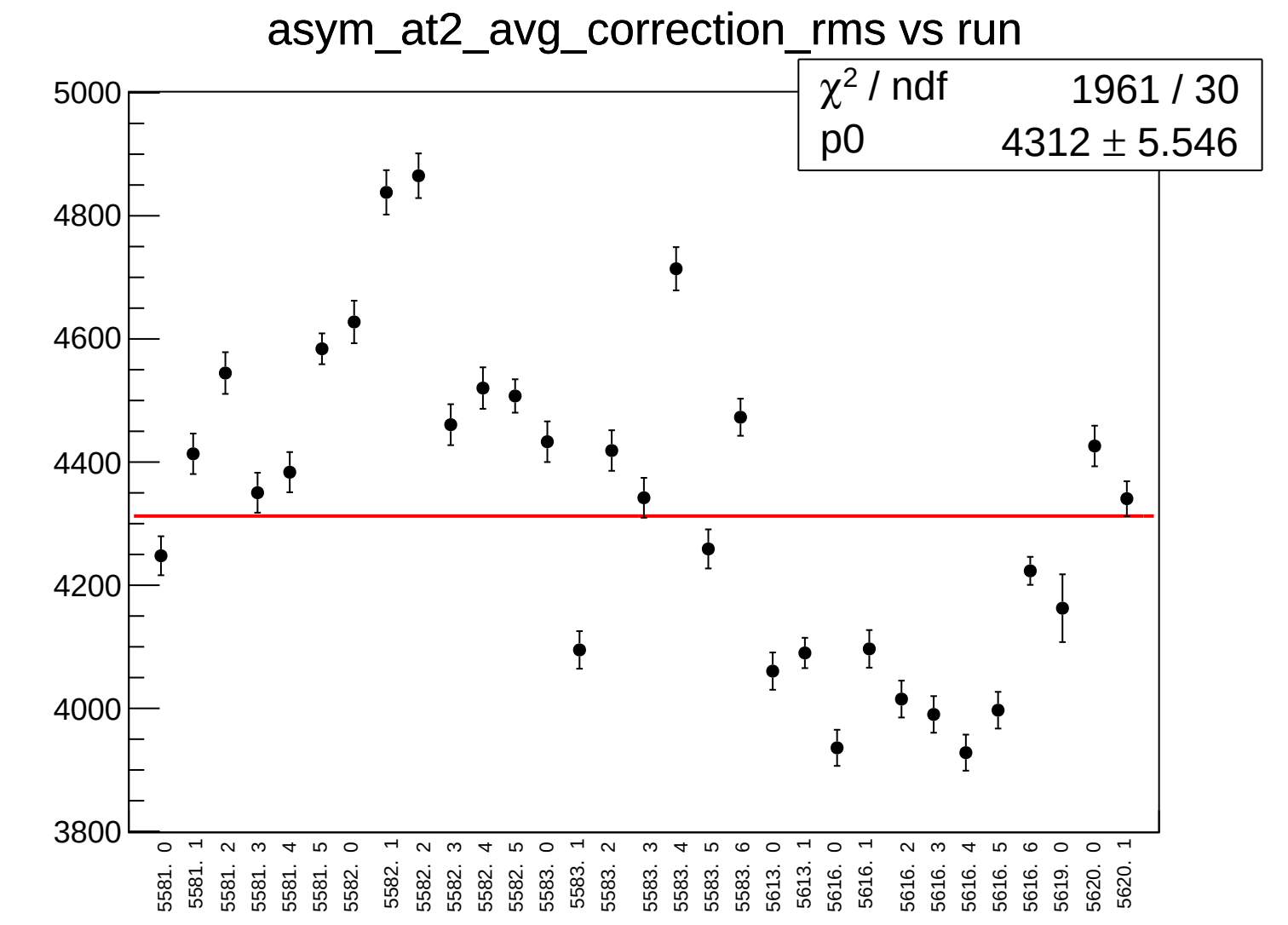

dit_asym_at2_avg_mean vs run
χ² / ndf 11.77 / 19
p0 −2400 ± 3171
40000
20000
0
−20000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 20
Mean 56.49
Std Dev 46.2
1.5
1
0.5
0
−0.5
−1
−1.5

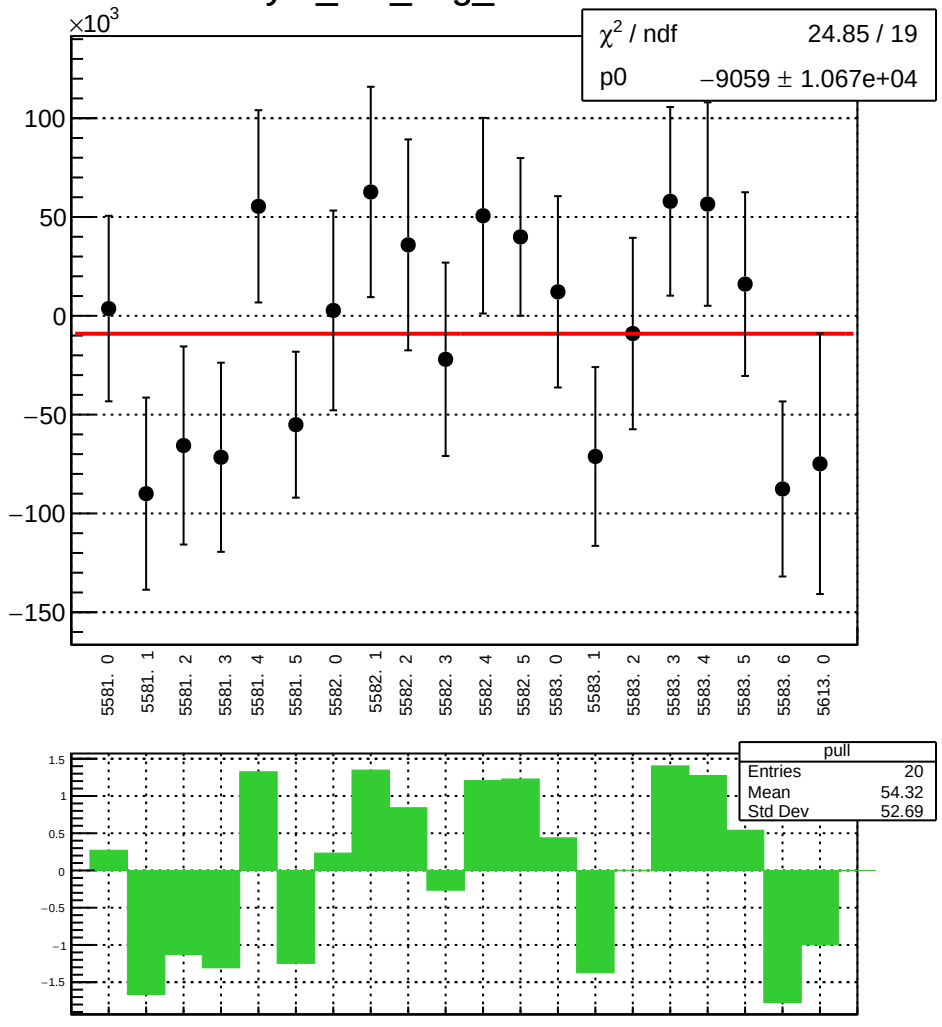

pull1D
Entries 20
Mean −0.01502
Std Dev 0.7671
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

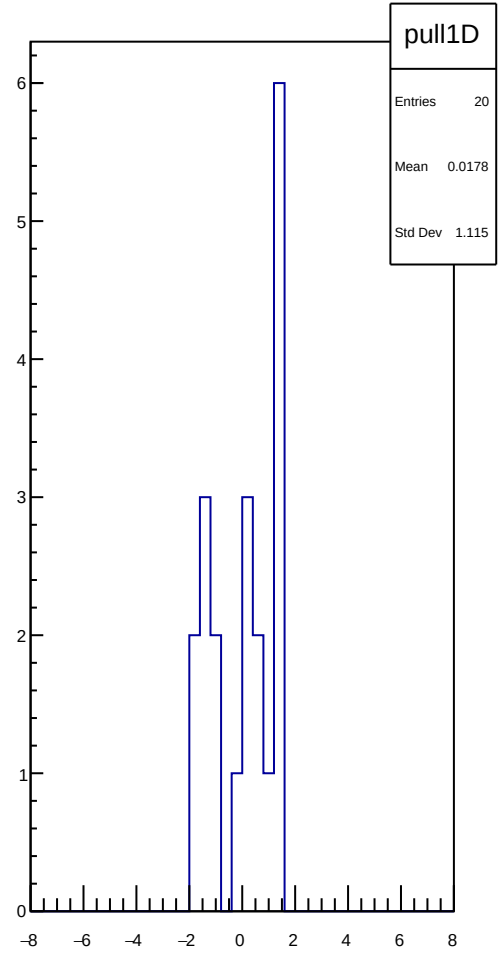

dit_asym_at2_avg_rms vs run
×10^3
χ^2 / ndf 1.938e+05 / 30
p0 1432 ± 2.229
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

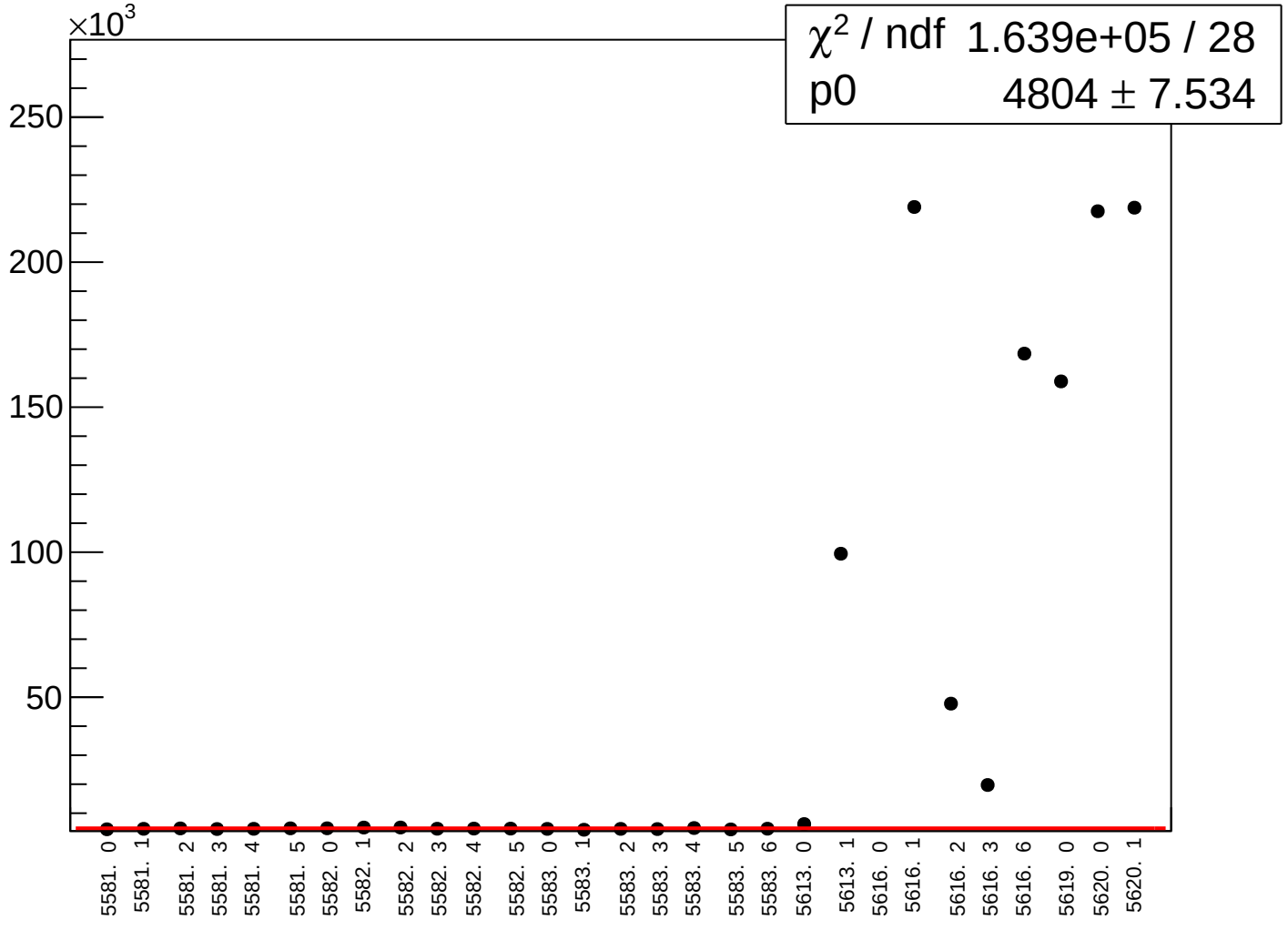

asym_at2_avg_correction_mean vs run
×10^3
χ² / ndf 30.07 / 30
p0 387.4 ± 7843
150
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 171
Std Dev 161.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

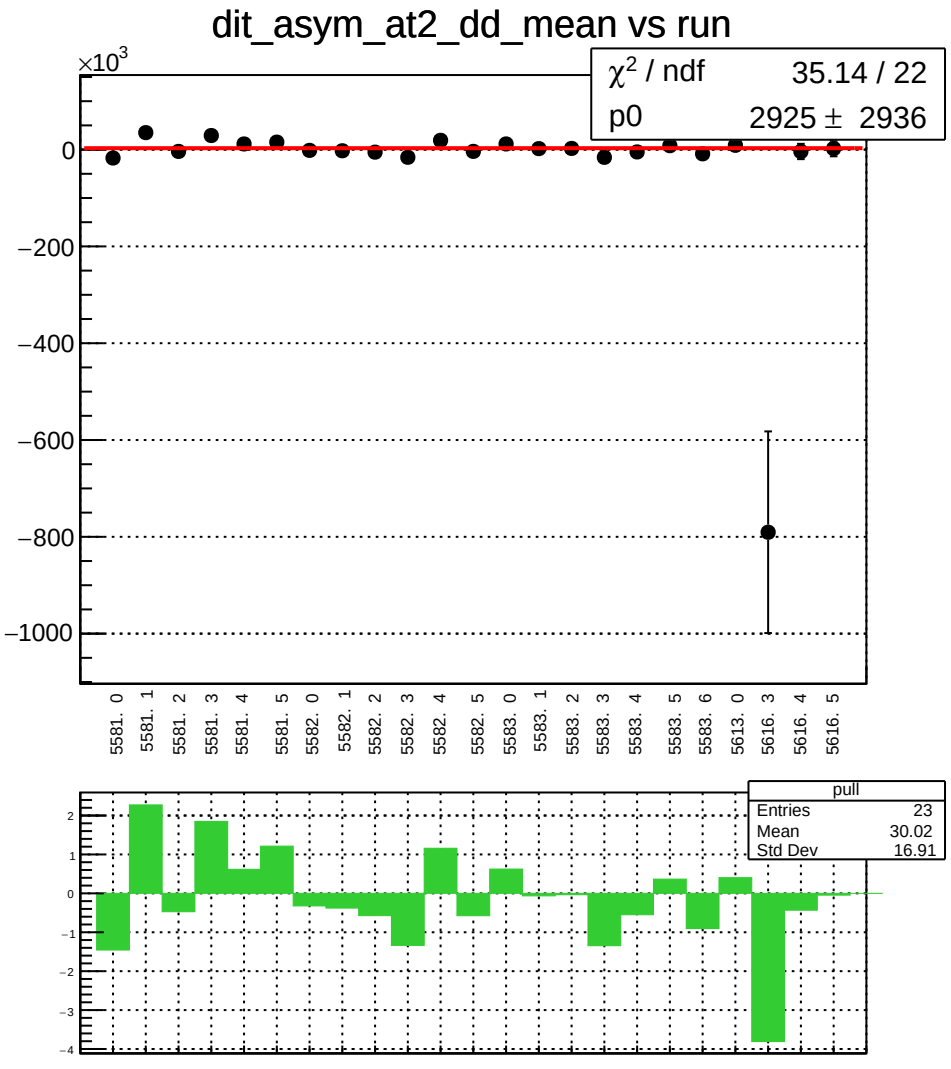

pull1D
Entries 31
Mean −0.01028
Std Dev 0.9848
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

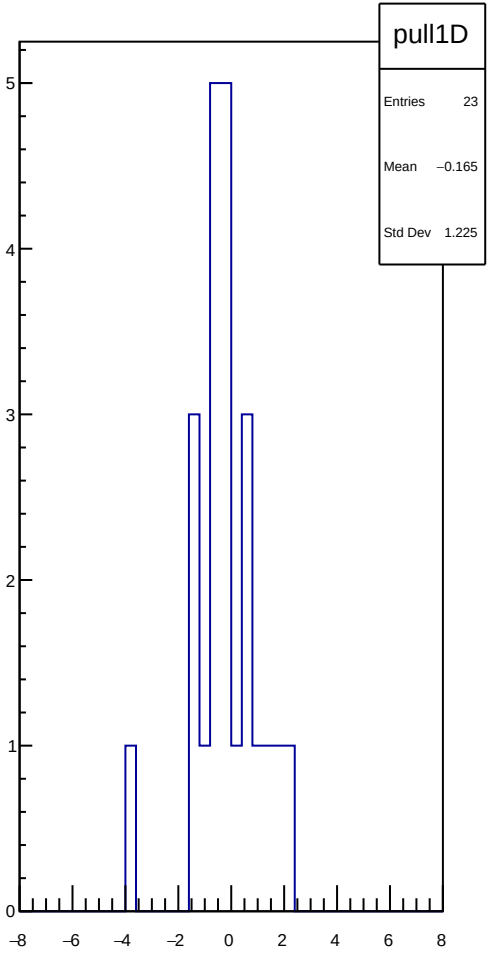

asym_at2_avg_correction_rms vs run
χ² / ndf 1961 / 30
p0 4312 ± 5.546
5000
4800
4600
4400
4200
4000
3800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

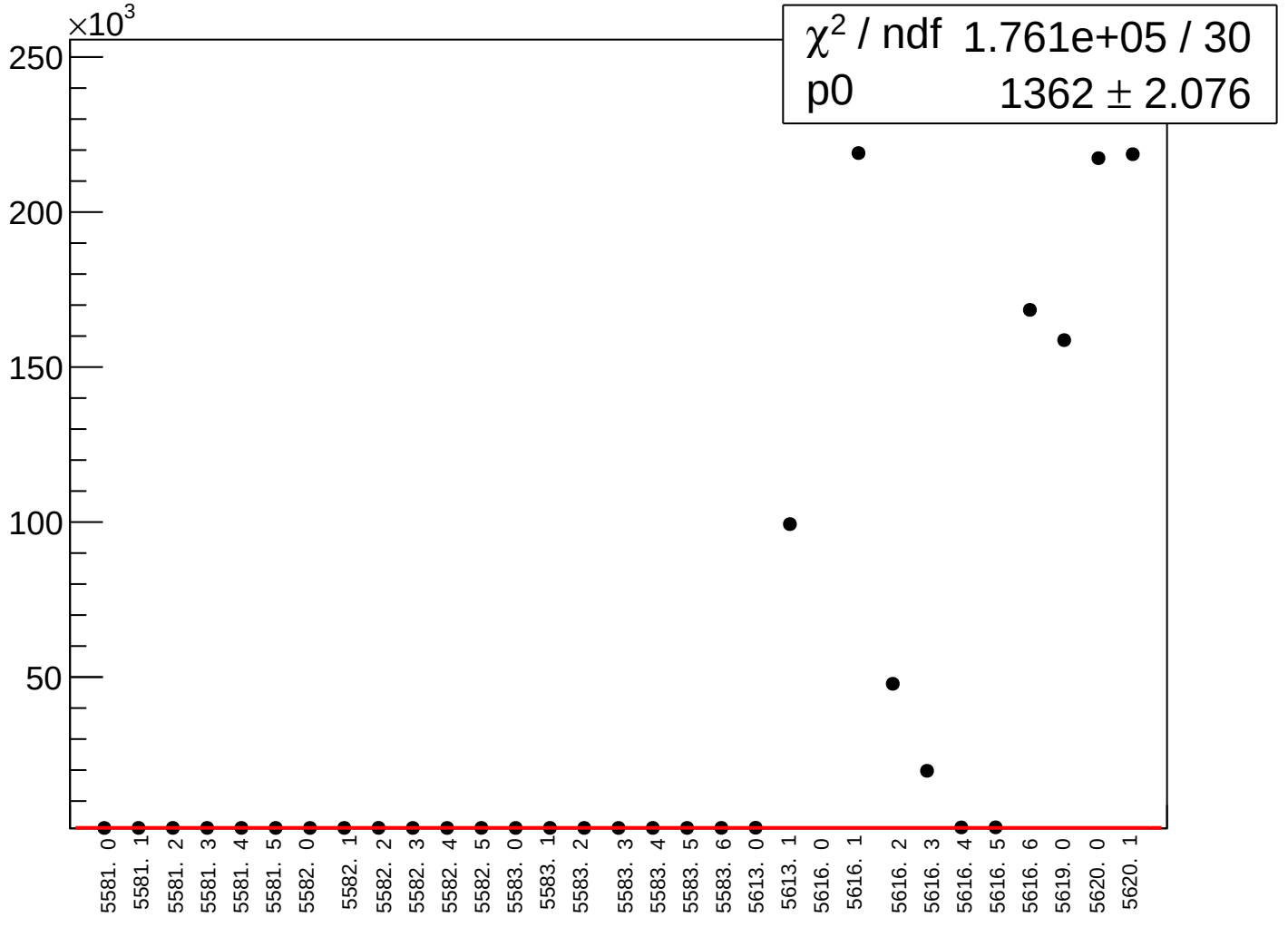

asym_at2_avg_mean vs run
×10^3
χ² / ndf 24.85 / 19
p0 −9059 ± 1.067e+04
100
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 20
Mean 54.32
Std Dev 52.69
1.5
1
0.5
0
−0.5
−1
−1.5

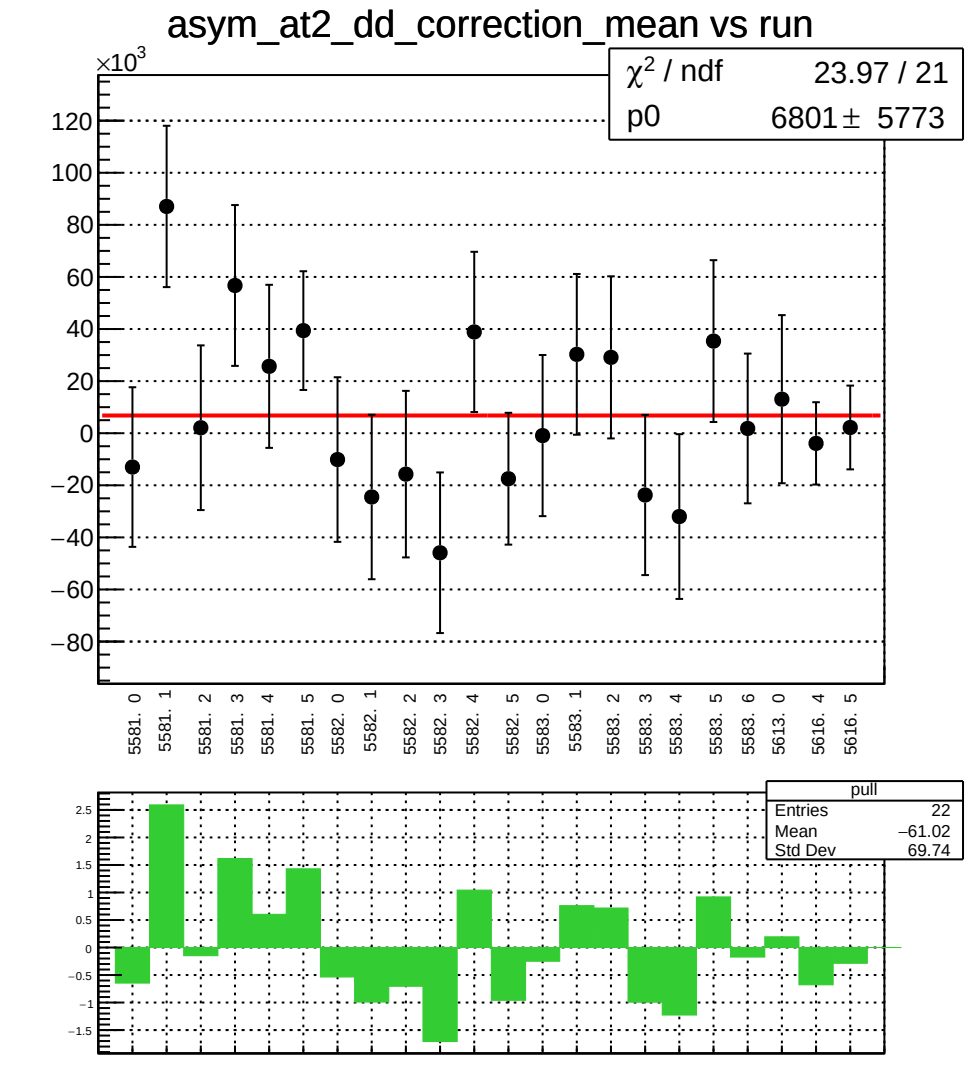

pull1D
Entries 20
Mean 0.0178
Std Dev 1.115
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

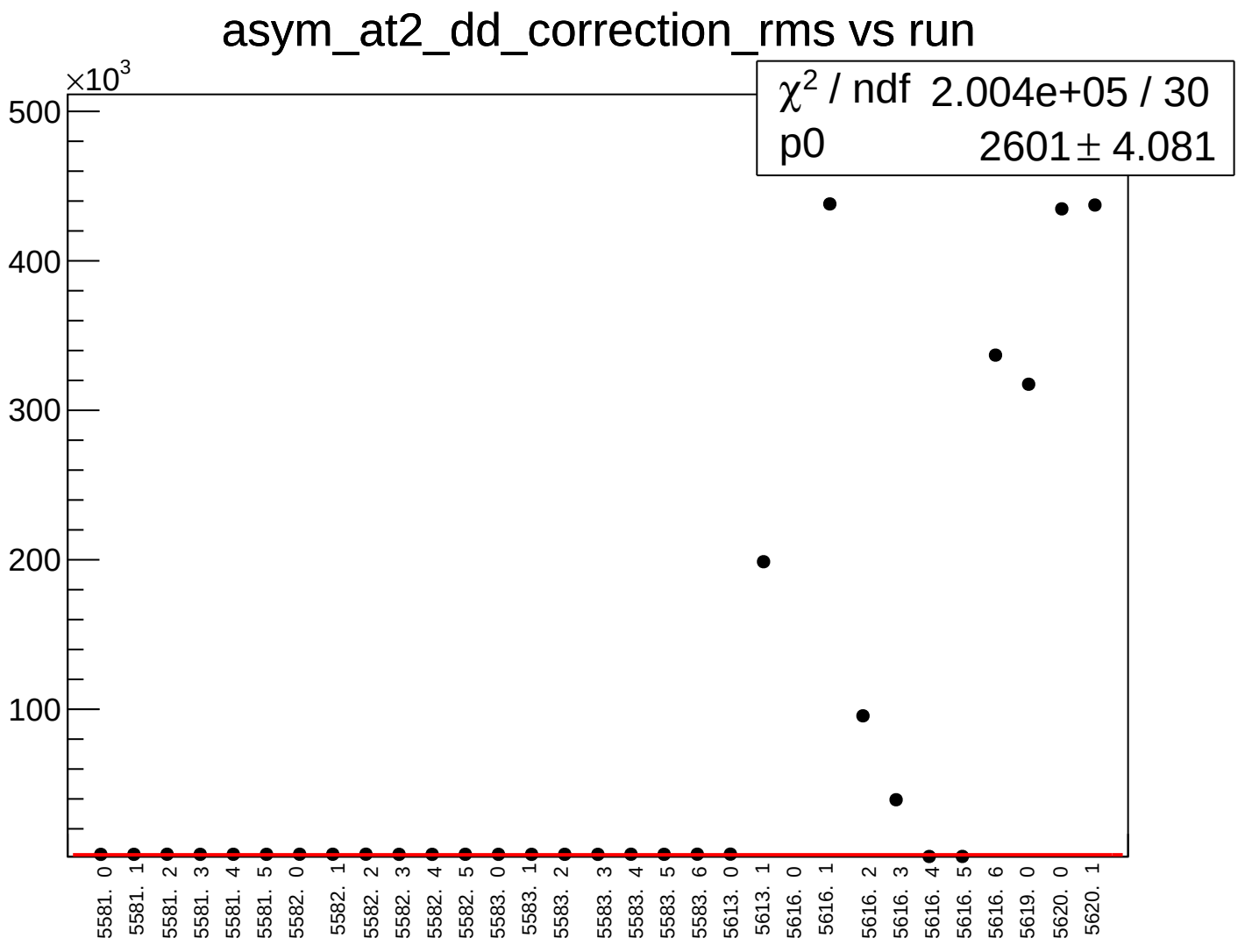

asym_at2_avg_rms vs run
×10^3
250
200
150
100
50
χ² / ndf 1.639e+05 / 28
p0 4804 ± 7.534
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 6
5619. 0
5620. 0
5620. 1

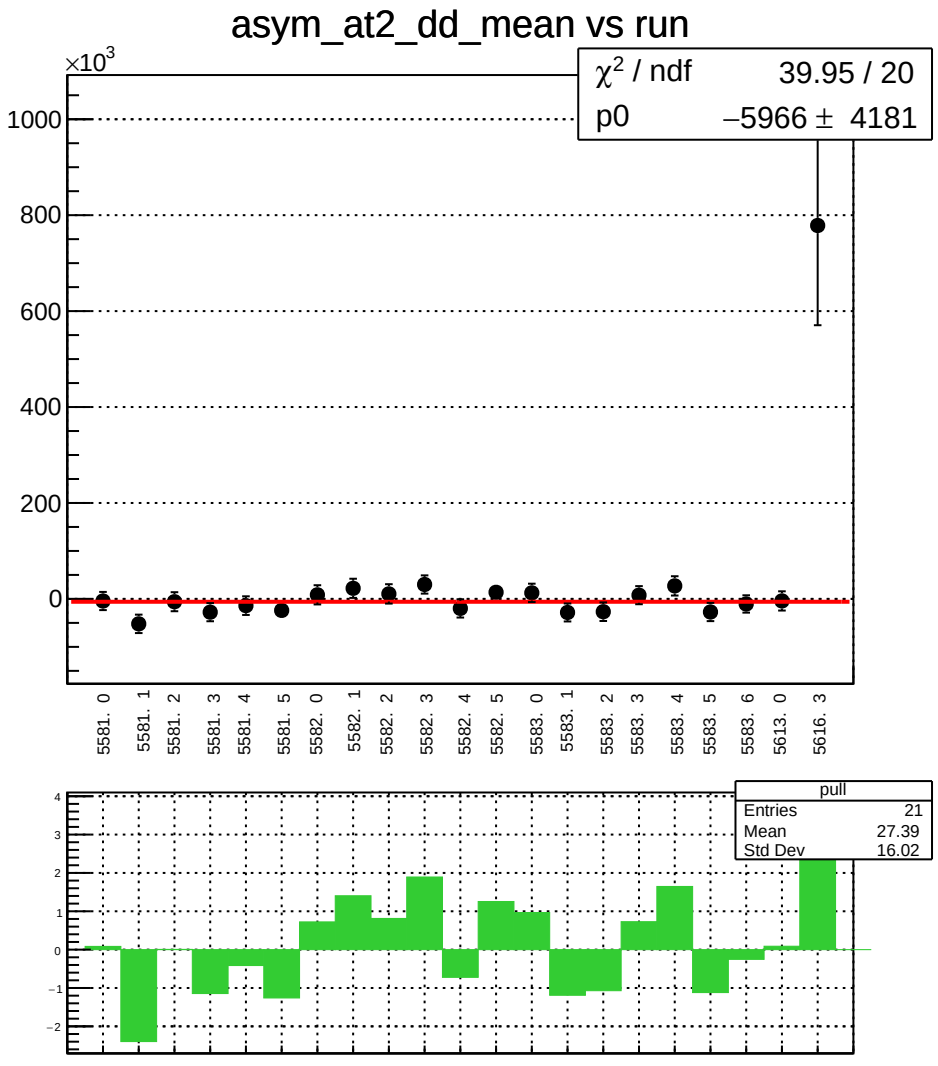

dit_asym_at2_dd_mean vs run
×10^3
χ^2 / ndf 35.14 / 22
p0 2925 ± 2936
0
−200
−400
−600
−800
−1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5616. 3
5616. 4
5616. 5
pull
Entries 23
Mean 30.02
Std Dev 16.91
2
1
0
−1
−2
−3
−4

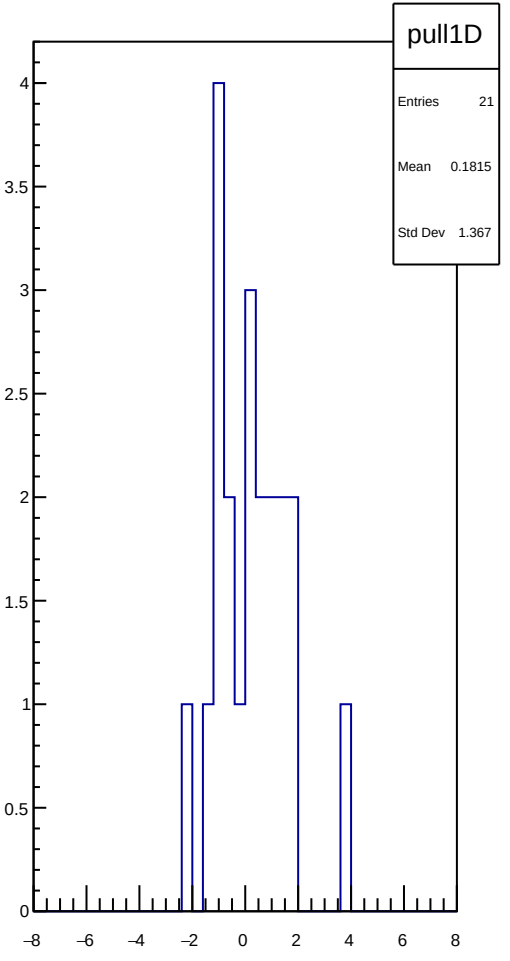

pull1D
Entries 23
Mean −0.165
Std Dev 1.225
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

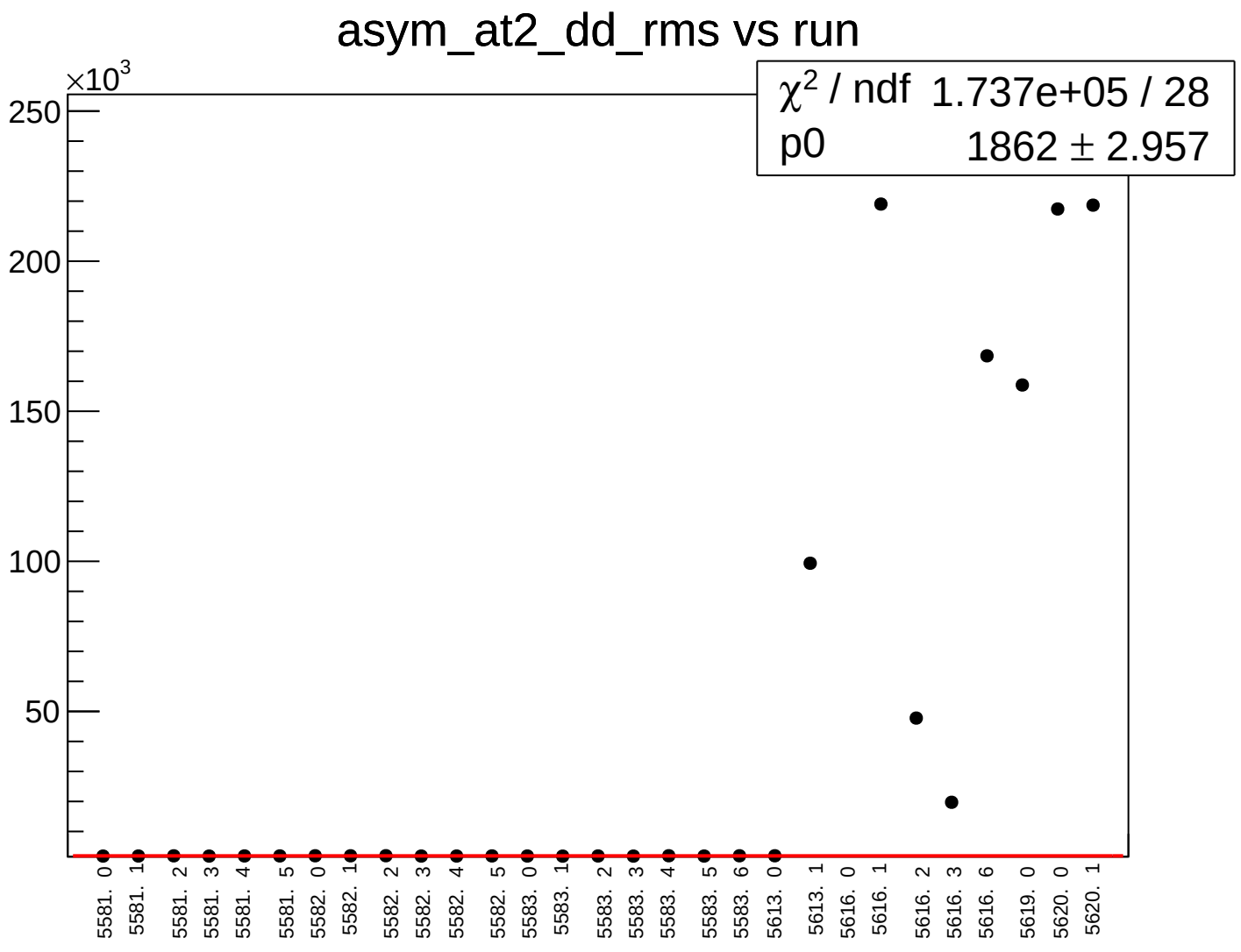

dit_asym_at2_dd_rms vs run
×10^3
250
200
150
100
50
χ² / ndf 1.761e+05 / 30
p0 1362 ± 2.076
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

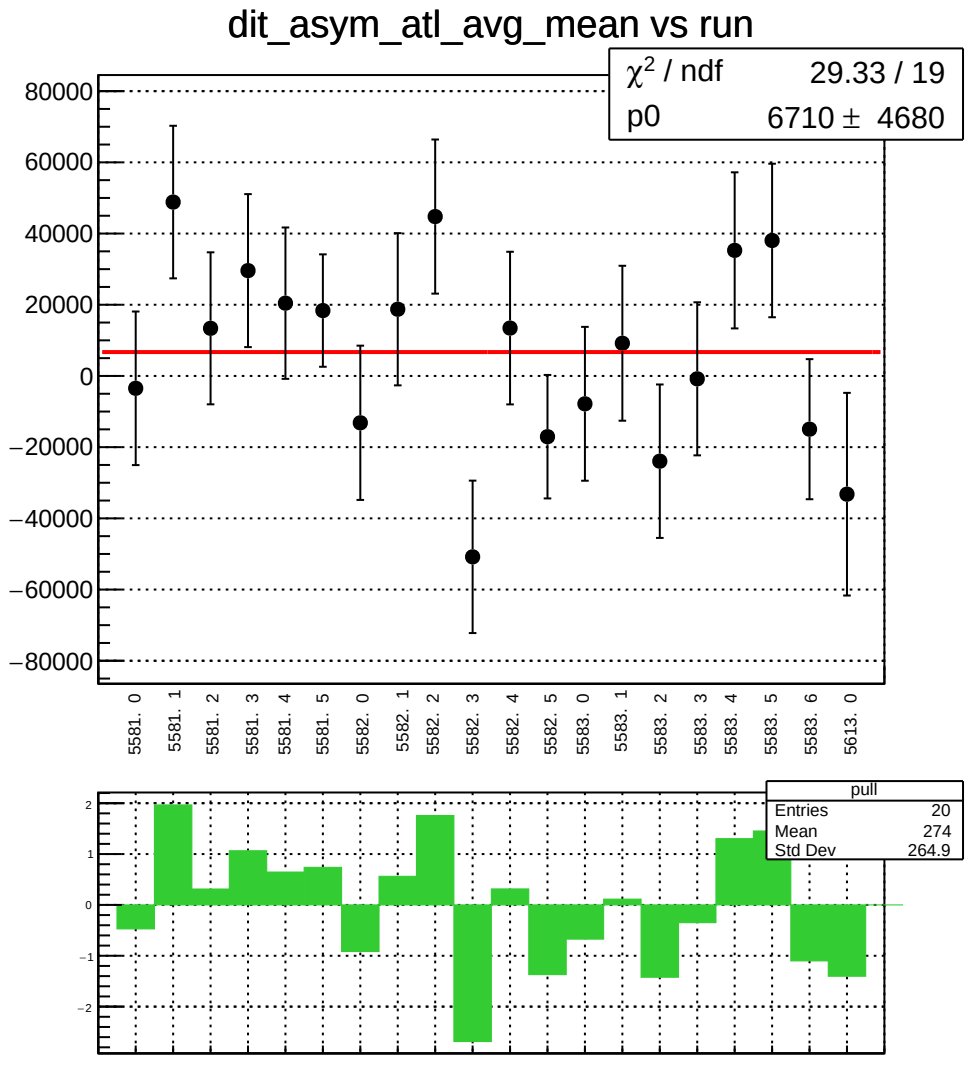

asym_at2_dd_correction_mean vs run
×10^3
χ^2 / ndf 23.97 / 21
p0 6801 ± 5773
120
100
80
60
40
20
0
−20
−40
−60
−80
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5616. 4
5616. 5
pull
Entries 22
Mean −61.02
Std Dev 69.74
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 22
Mean 0.02624
Std Dev 1.044
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

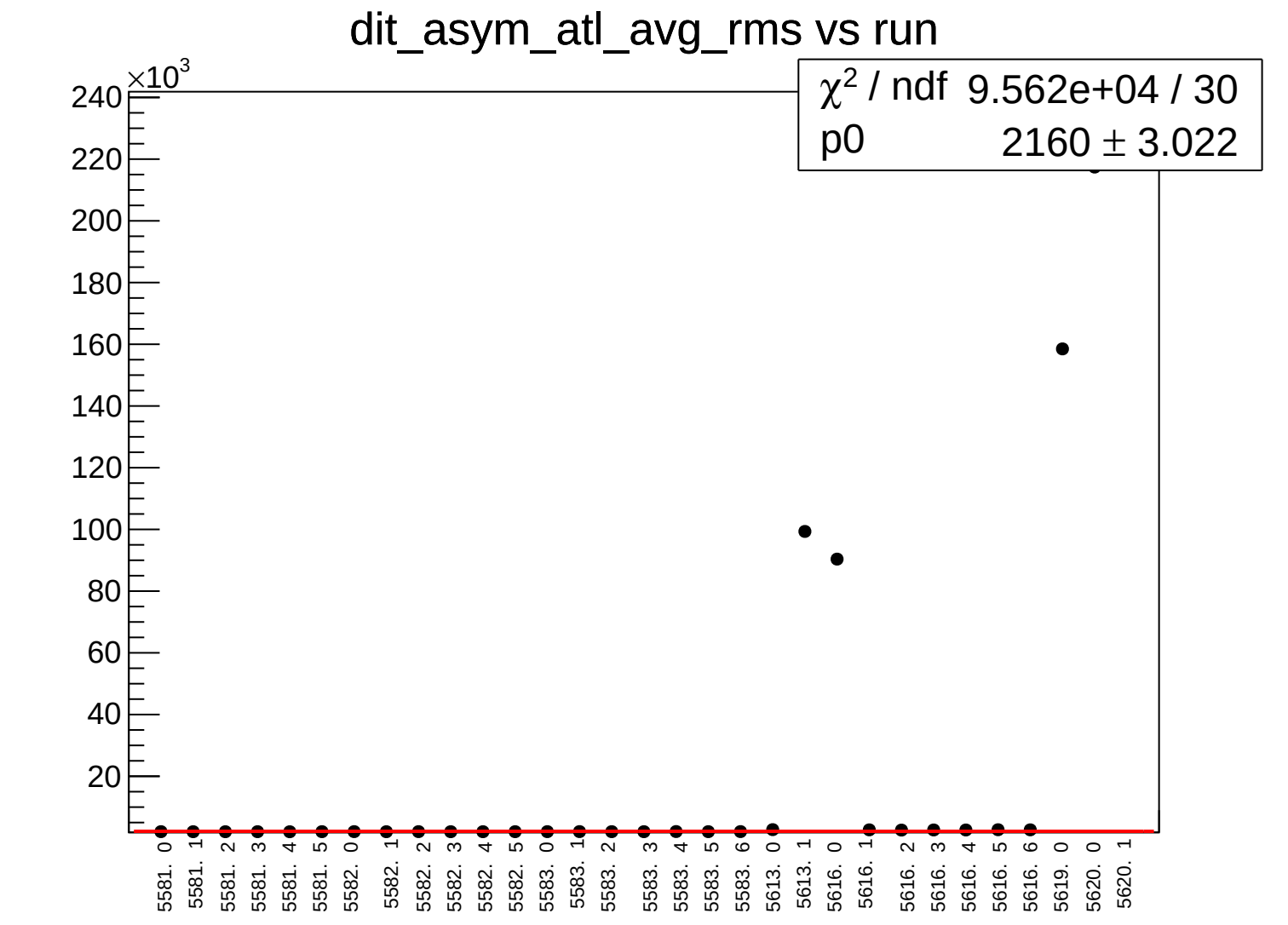

asym_at2_dd_correction_rms vs run
×10^3
500
400
300
200
100
χ² / ndf 2.004e+05 / 30
p0 2601 ± 4.081
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

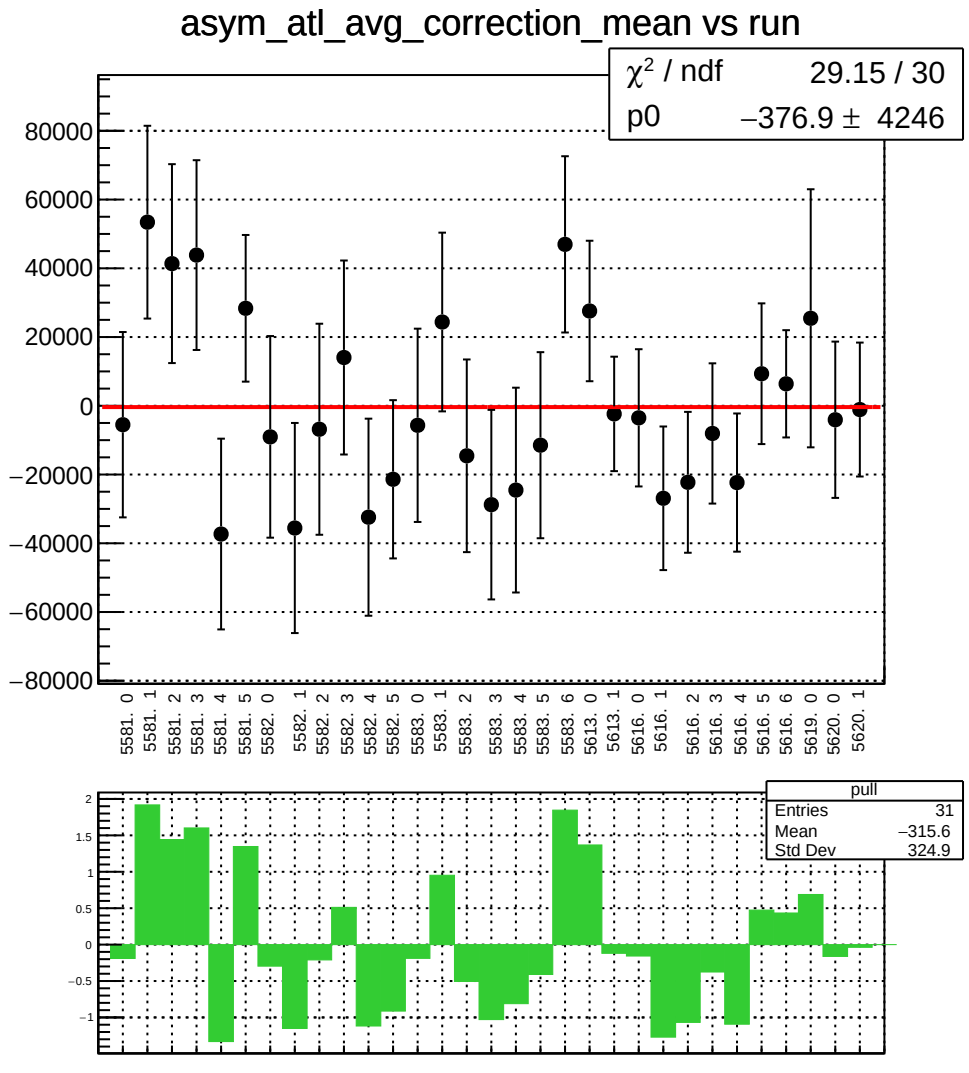

asym_at2_dd_mean vs run
×10^3
χ^2 / ndf 39.95 / 20
p0 −5966 ± 4181
1000
800
600
400
200
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5616. 3
pull
Entries 21
Mean 27.39
Std Dev 16.02

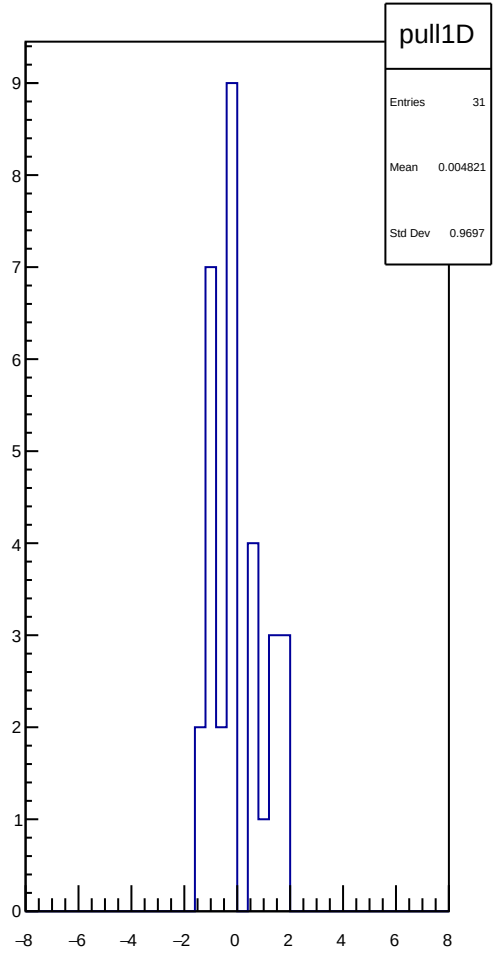

pull1D
Entries 21
Mean 0.1815
Std Dev 1.367

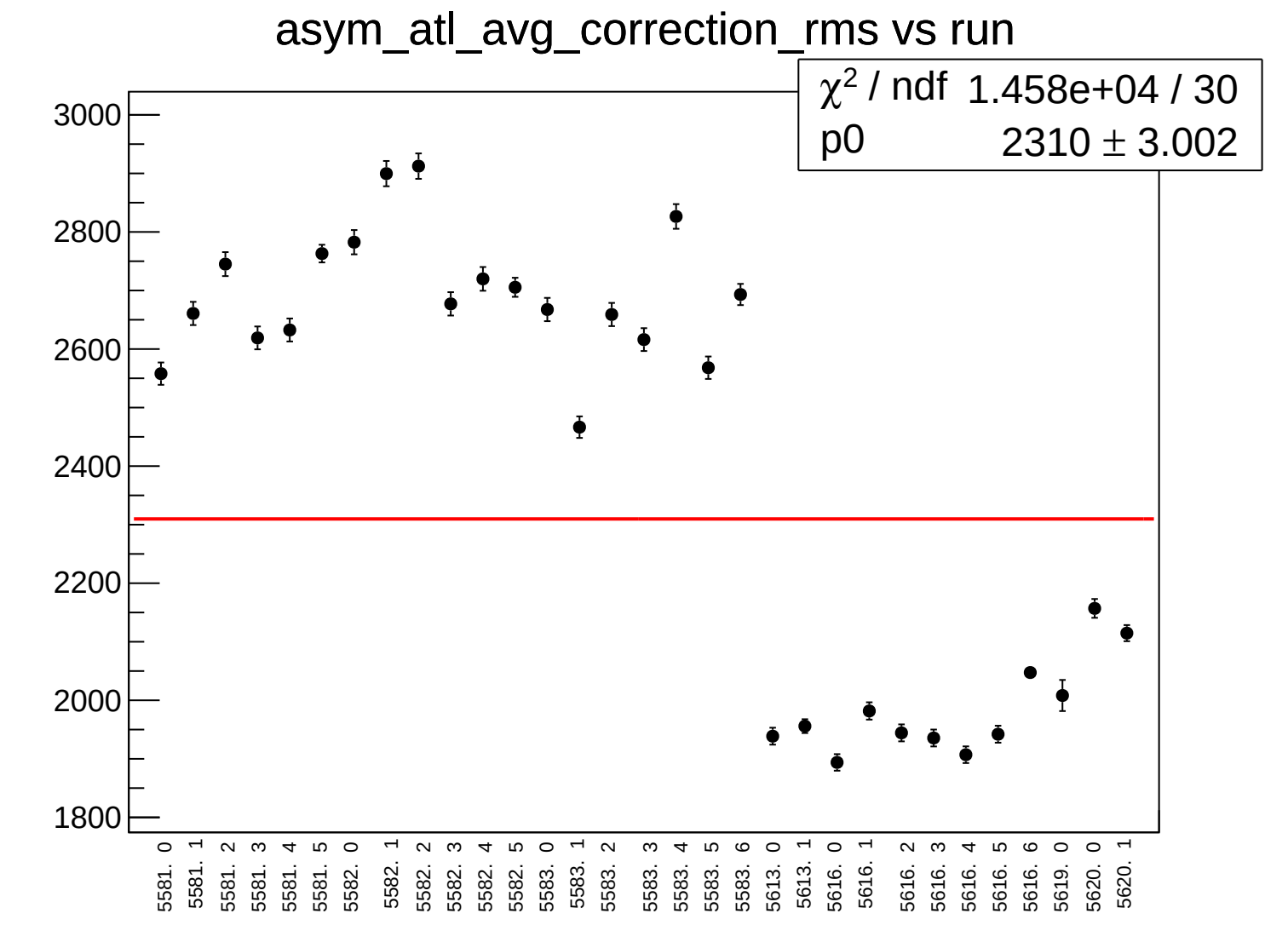

asym_at2_dd_rms vs run
×10^3
250
200
150
100
50
χ² / ndf 1.737e+05 / 28
p0 1862 ± 2.957
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 6
5619. 0
5620. 0
5620. 1

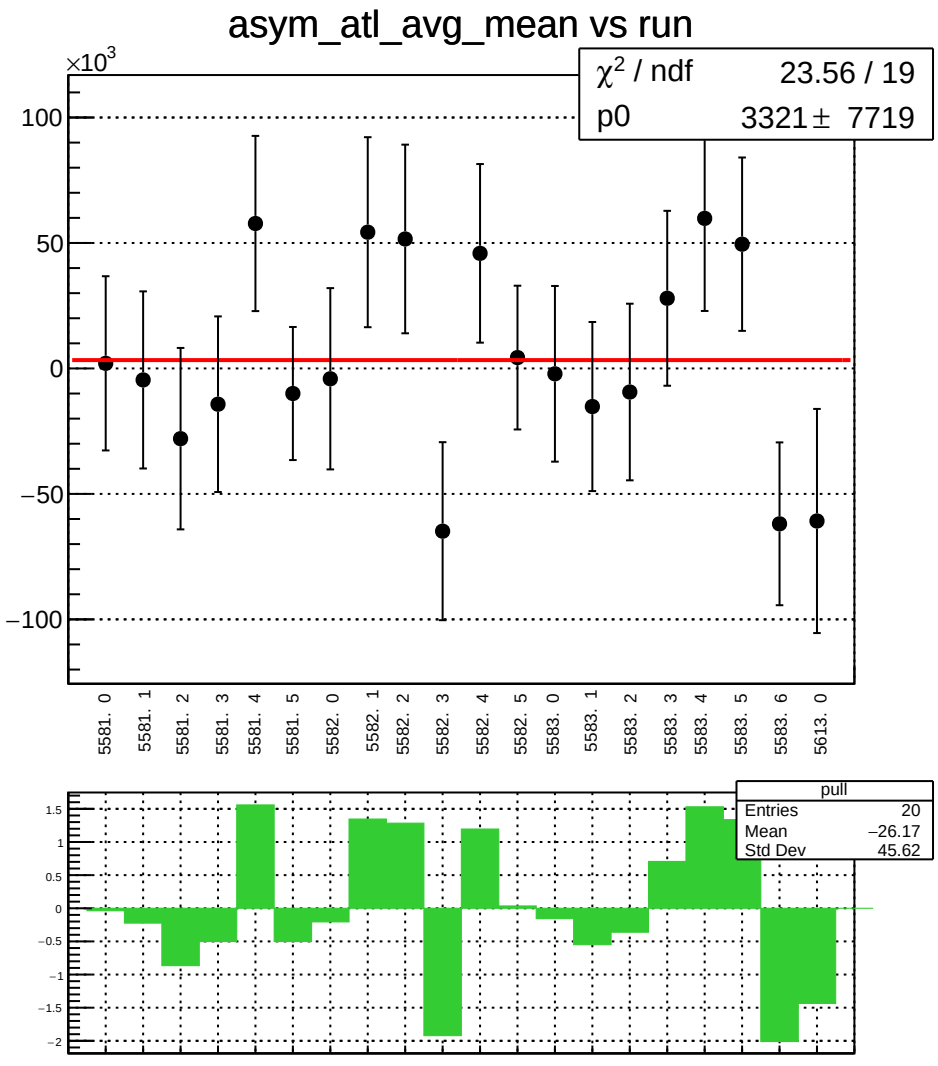

dit_asym_atl_avg_mean vs run
χ² / ndf 29.33 / 19
p0 6710 ± 4680
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 20
Mean 274
Std Dev 264.9
2
1
0
−1
−2
pull1D
Entries 20
Mean −0.008082
Std Dev 1.211
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

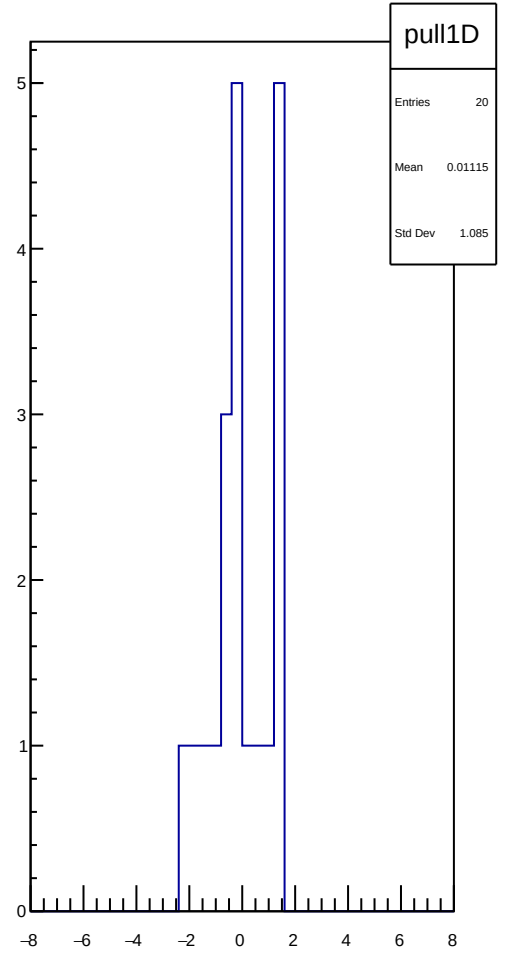

dit_asym_atl_avg_rms vs run
×10^3
240
220
200
180
160
140
120
100
80
60
40
20
χ² / ndf 9.562e+04 / 30
p0 2160 ± 3.022
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

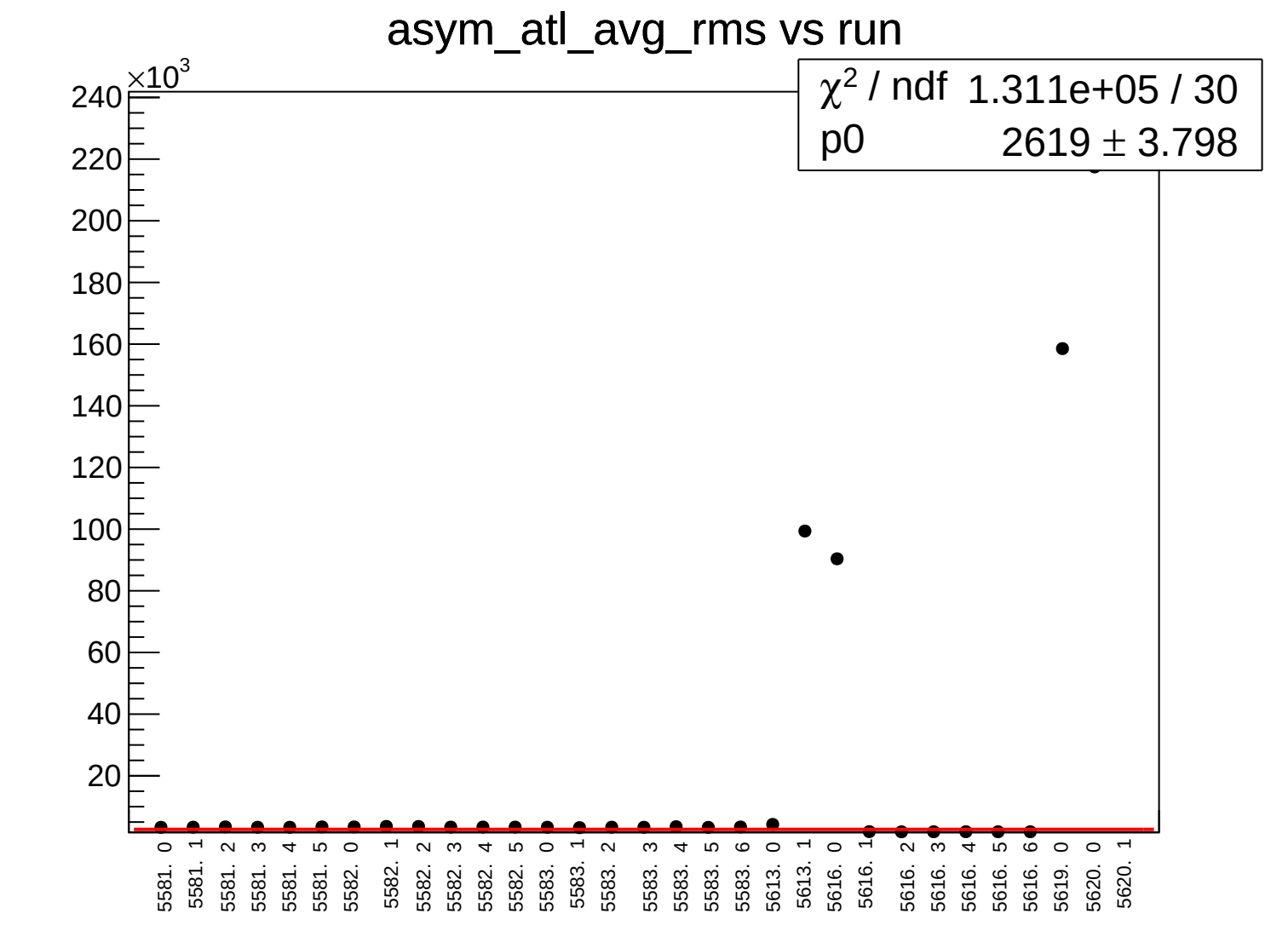

asym_atl_avg_correction_mean vs run
χ² / ndf 29.15 / 30
p0 −376.9 ± 4246
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −315.6
Std Dev 324.9
2
1.5
1
0.5
0
−0.5
−1

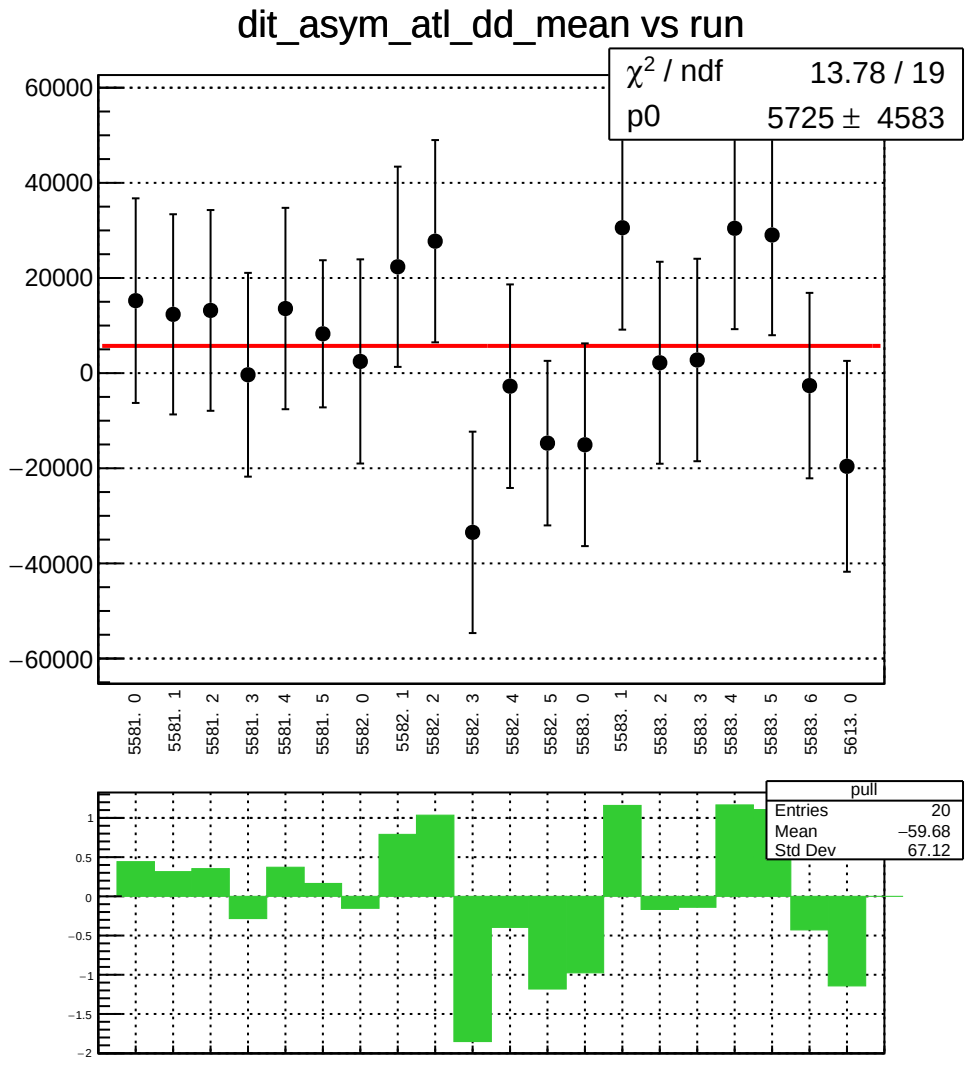

pull1D
Entries 31
Mean 0.004821
Std Dev 0.9697
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

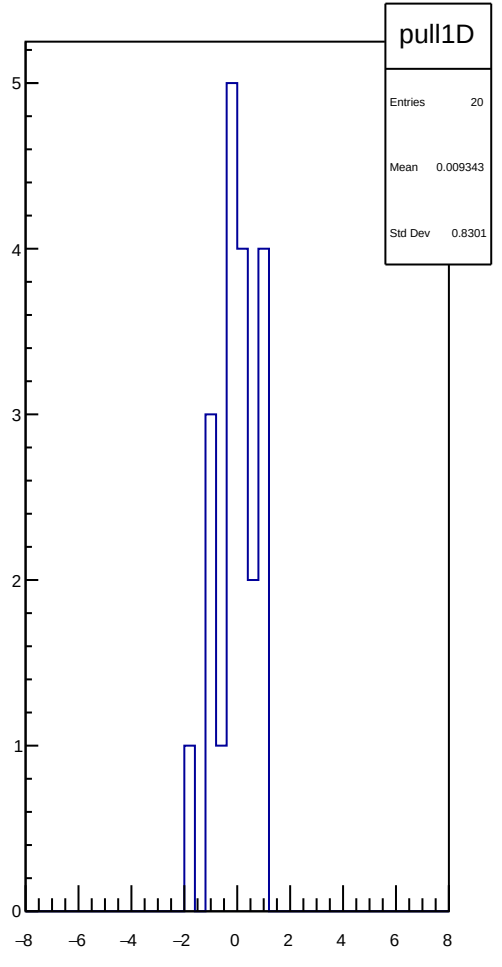

asym_atl_avg_correction_rms vs run
χ² / ndf 1.458e+04 / 30
p0 2310 ± 3.002
3000
2800
2600
2400
2200
2000
1800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

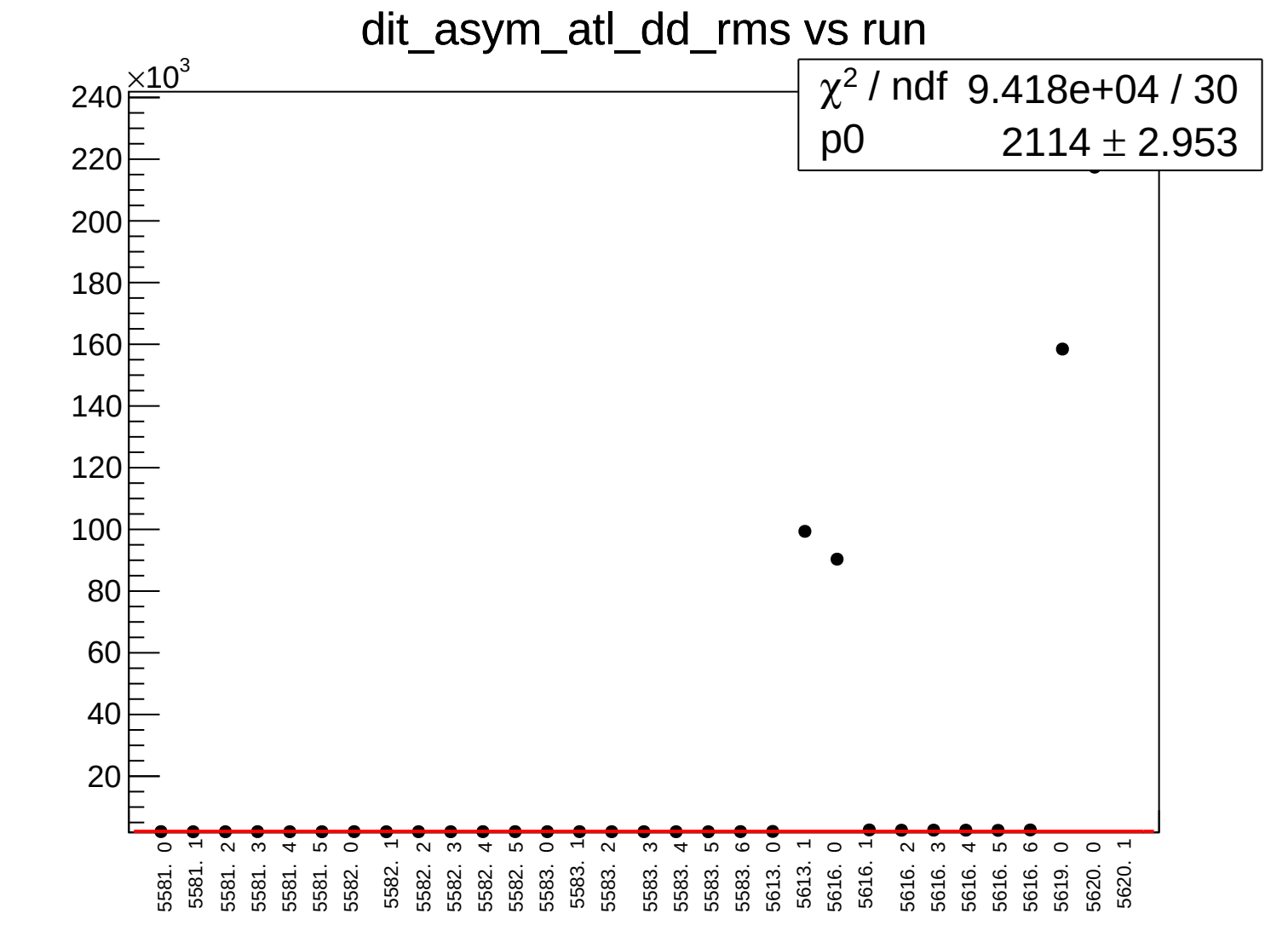

asym_atl_avg_mean vs run
×10^3
χ^2 / ndf 23.56 / 19
p0 3321 ± 7719
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 20
Mean −26.17
Std Dev 45.62
1.5
1
0.5
0
−0.5
−1
−1.5
−2

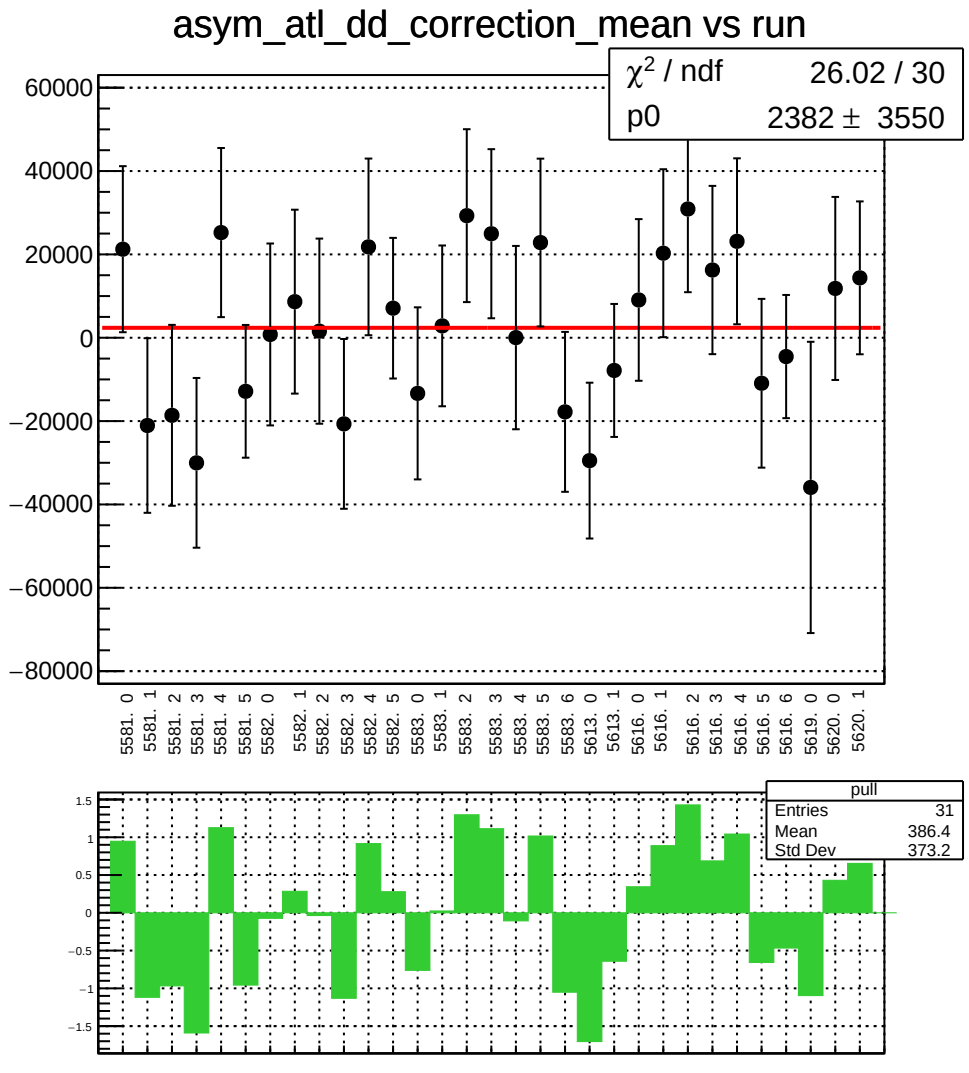

pull1D
Entries 20
Mean 0.01115
Std Dev 1.085
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

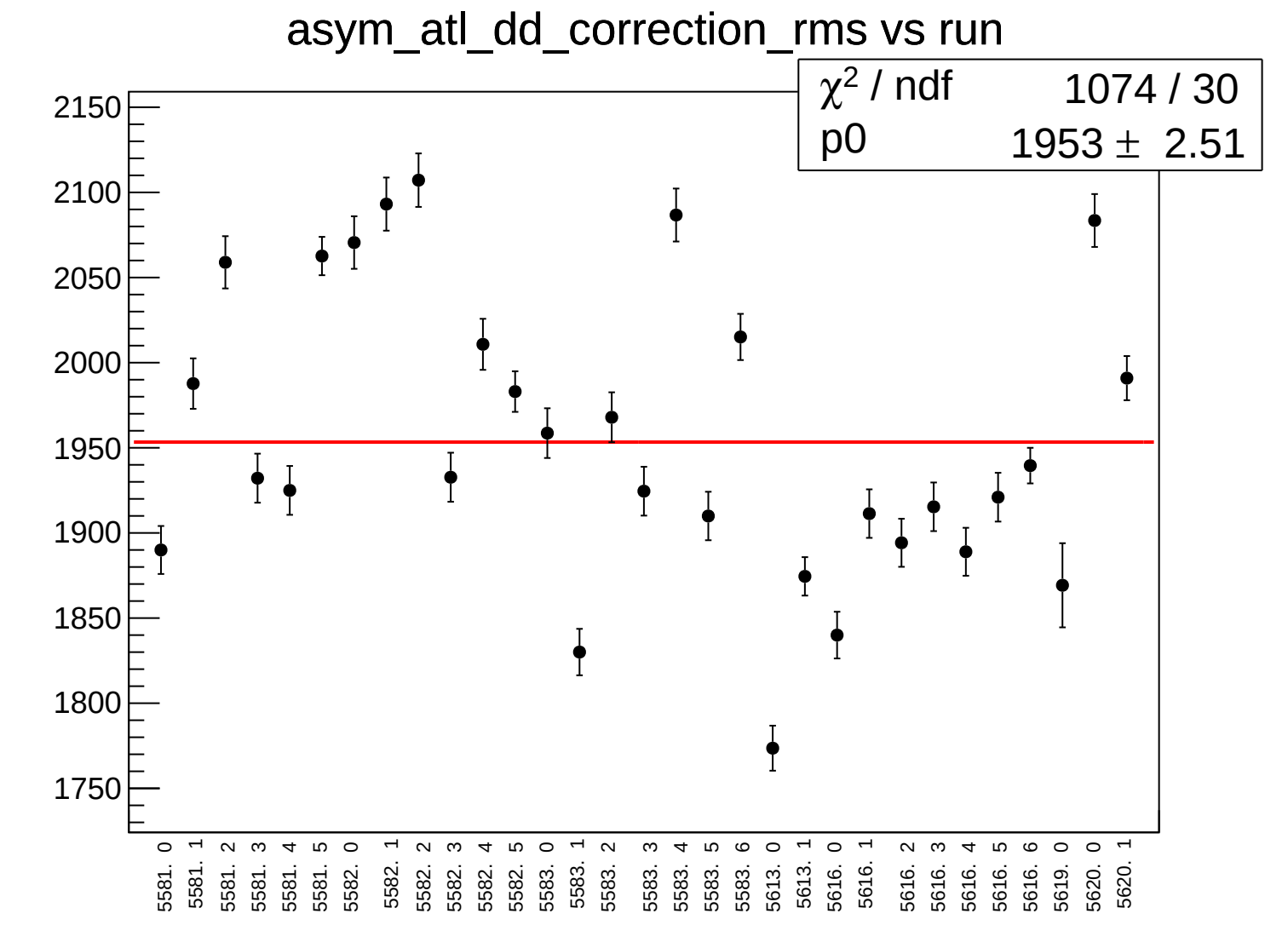

asym_atl_avg_rms vs run
×10^3
240
220
200
180
160
140
120
100
80
60
40
20
χ² / ndf 1.311e+05 / 30
p0 2619 ± 3.798
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

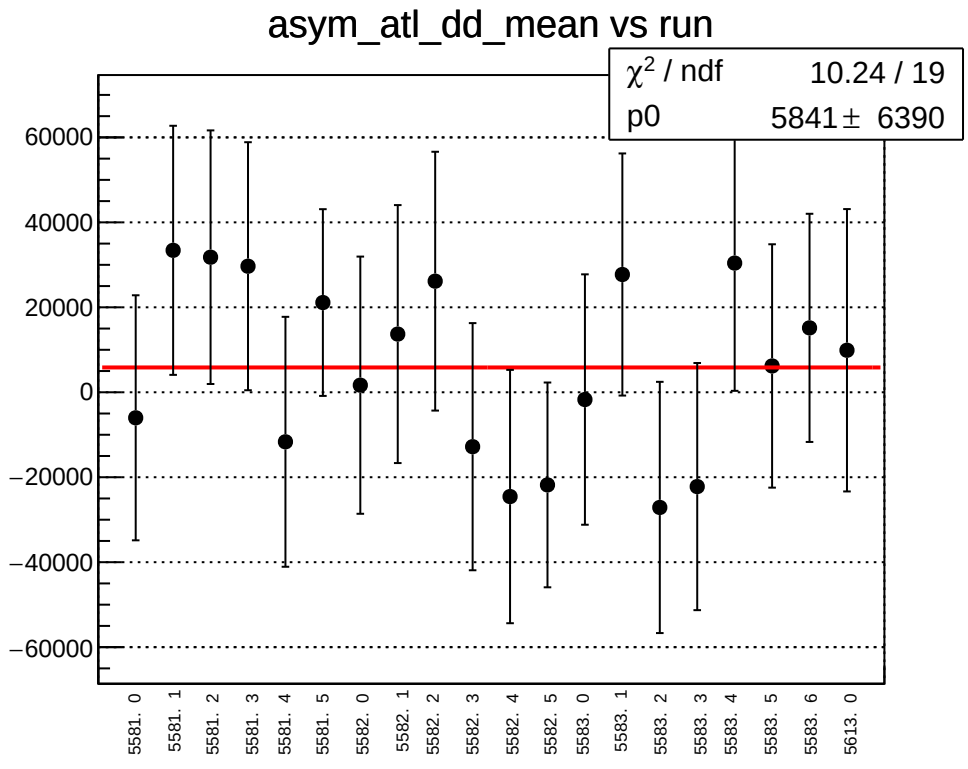

dit_asym_atl_dd_mean vs run
χ² / ndf 13.78 / 19
p0 5725 ± 4583
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 20
Mean −59.68
Std Dev 67.12
1
0.5
0
−0.5
−1
−1.5
−2

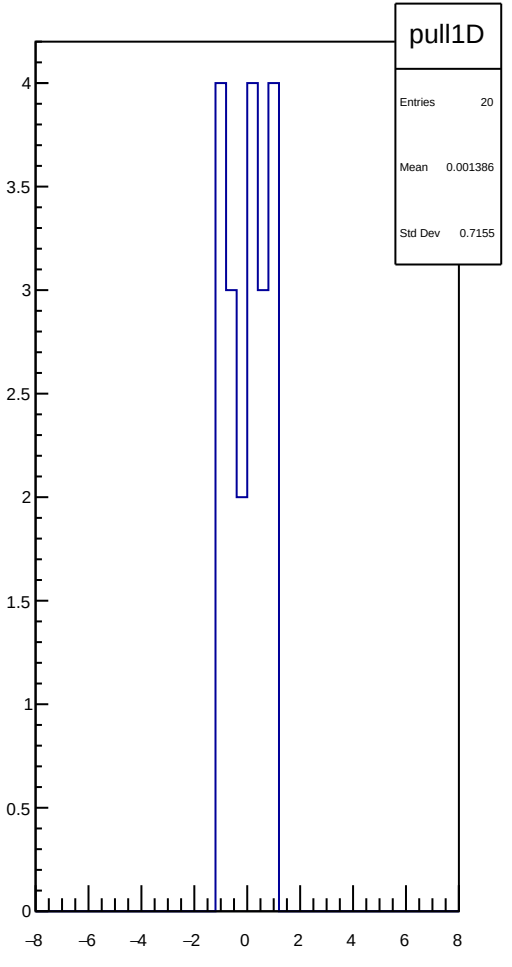

pull1D
Entries 20
Mean 0.009343
Std Dev 0.8301
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

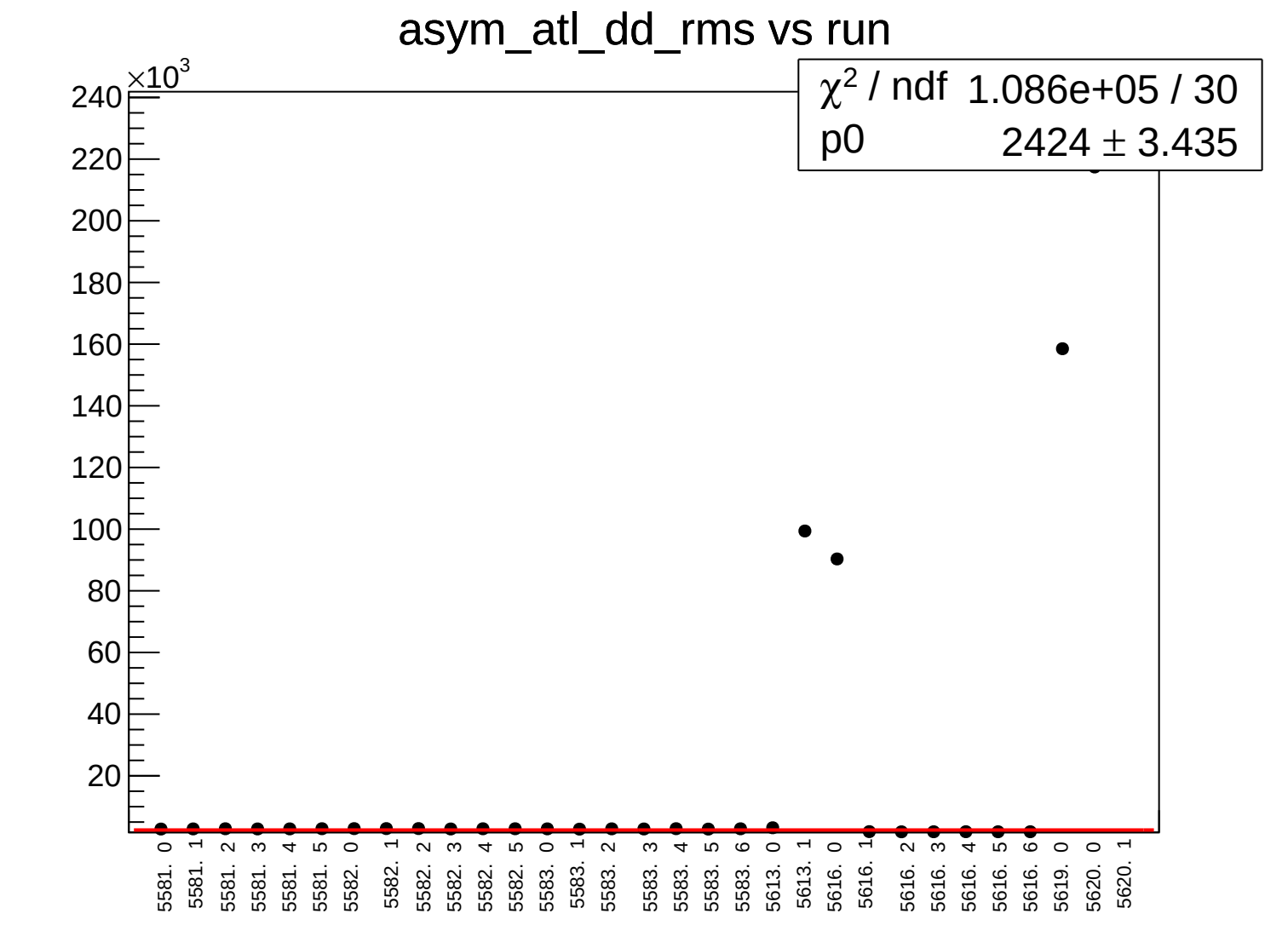

dit_asym_atl_dd_rms vs run
×10^3
240
220
200
180
160
140
120
100
80
60
40
20
χ² / ndf 9.418e+04 / 30
p0 2114 ± 2.953
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

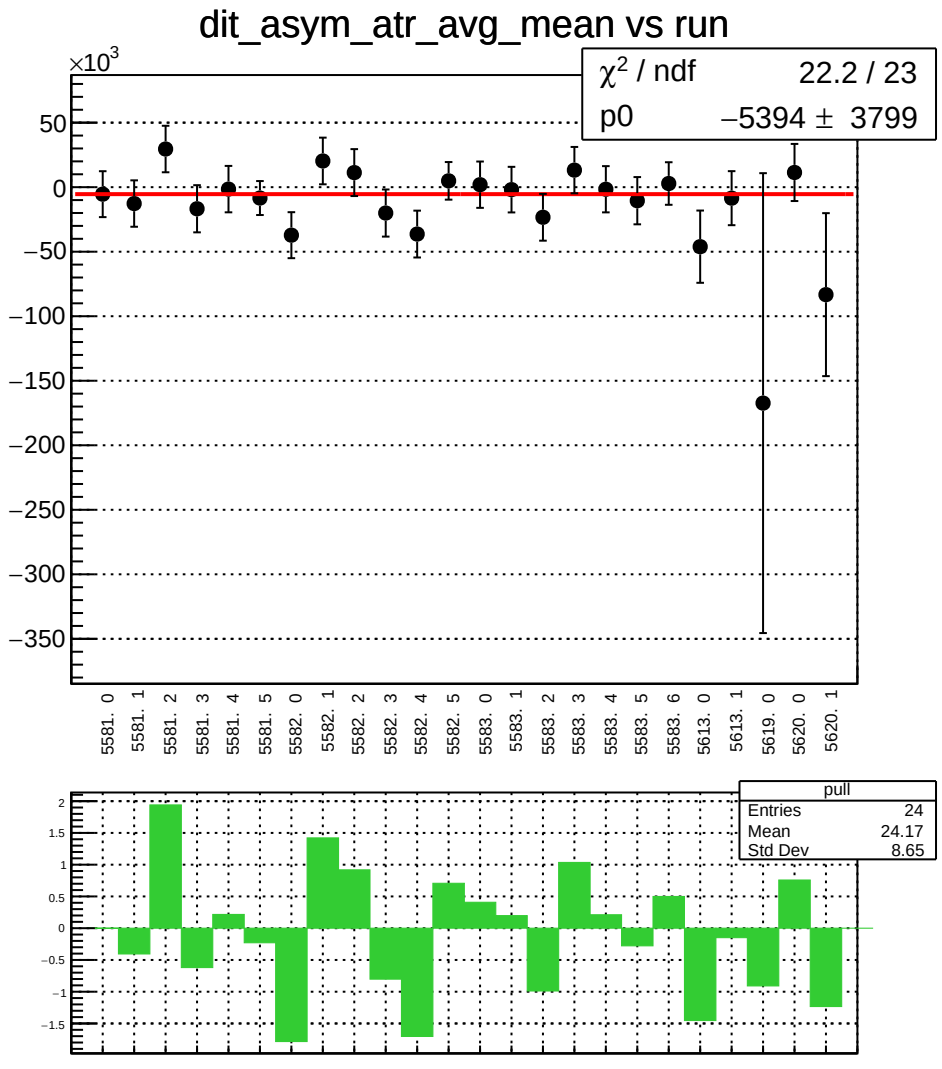

asym_atl_dd_correction_mean vs run
χ² / ndf 26.02 / 30
p0 2382 ± 3550
60000
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 386.4
Std Dev 373.2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.003896
Std Dev 0.9162
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

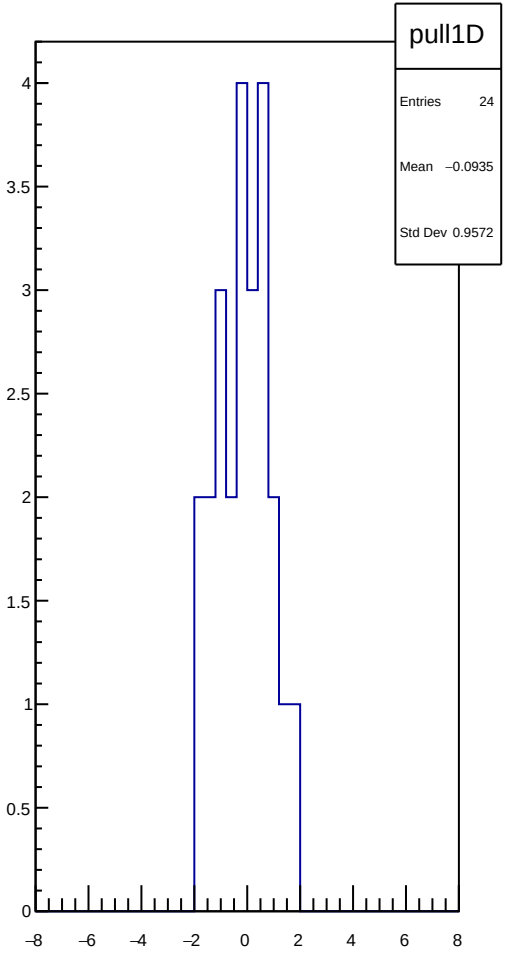

asym_atl_dd_correction_rms vs run
χ² / ndf 1074 / 30
p0 1953 ± 2.51
2150
2100
2050
2000
1950
1900
1850
1800
1750
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

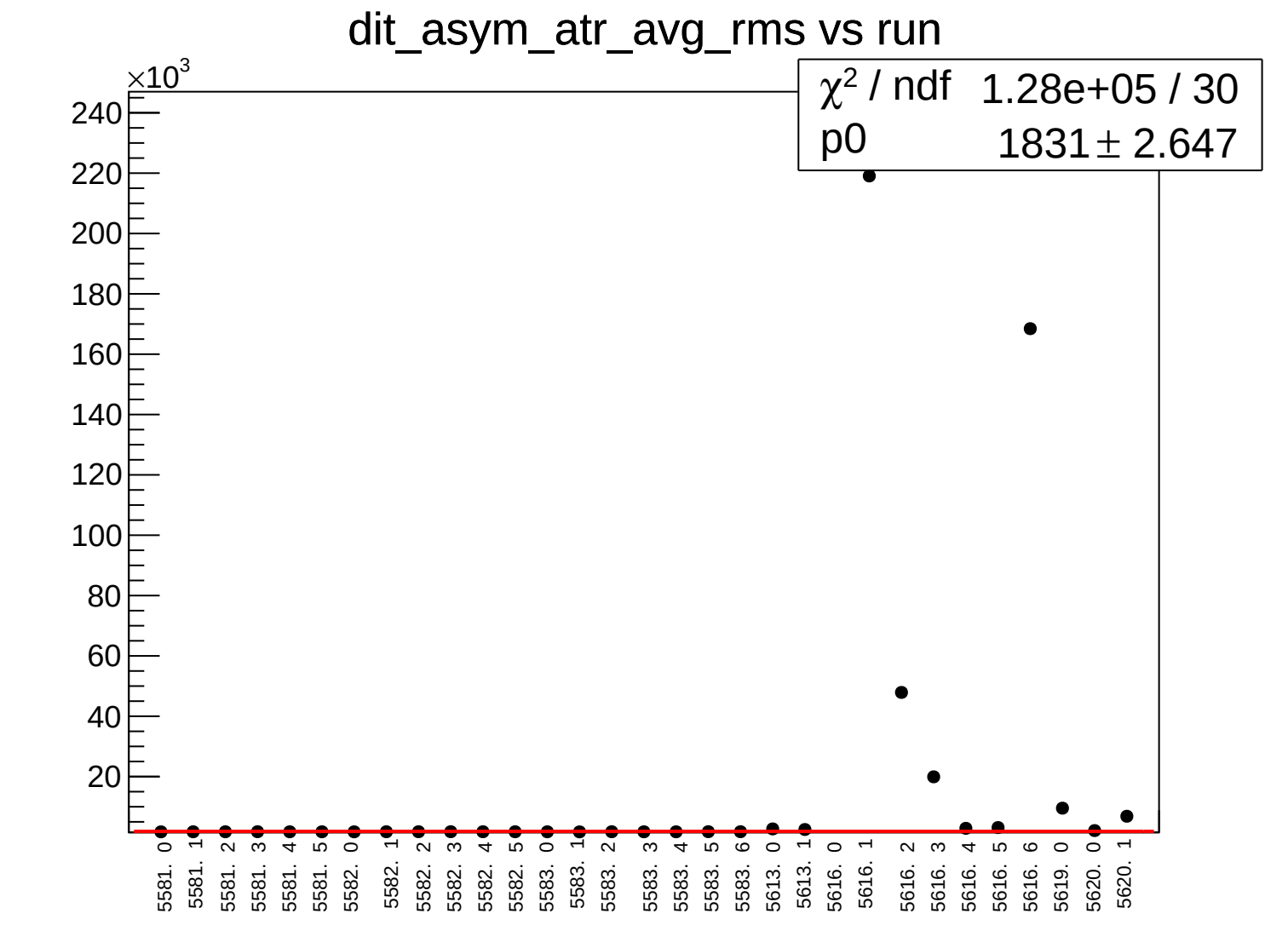

asym_atl_dd_mean vs run
χ² / ndf 10.24 / 19
p0 5841 ± 6390
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 20
Mean −625.1
Std Dev 631.2
1
0.5
0
−0.5
−1

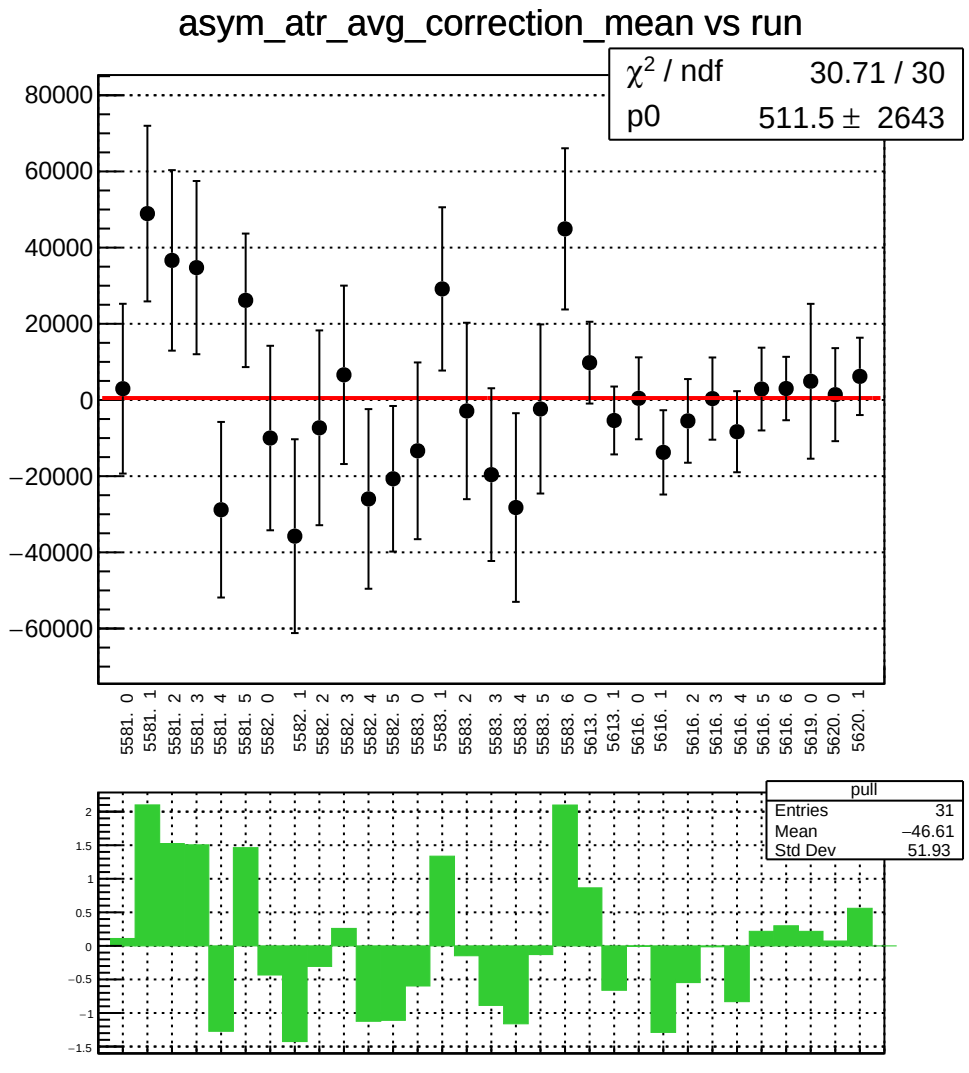

pull1D
Entries 20
Mean 0.001386
Std Dev 0.7155
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

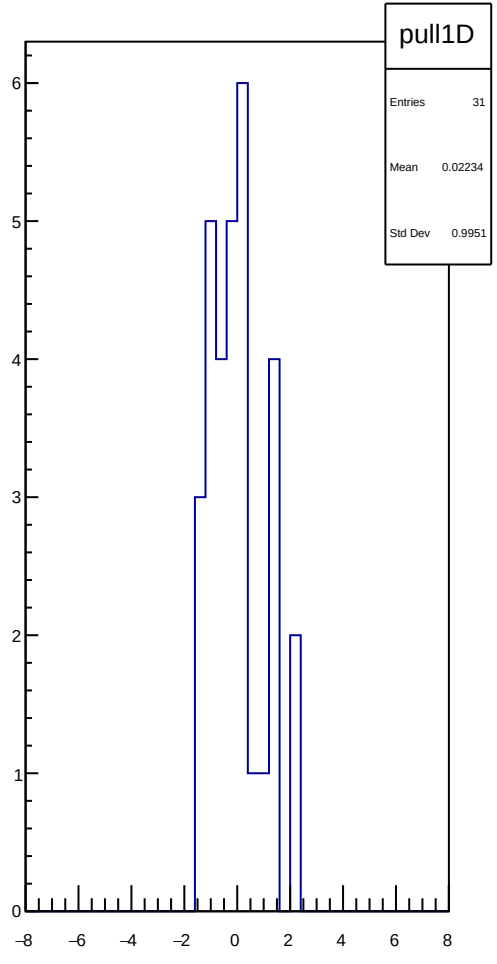

asym_atl_dd_rms vs run
χ² / ndf 1.086e+05 / 30
p0 2424 ± 3.435
×10³
240
220
200
180
160
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

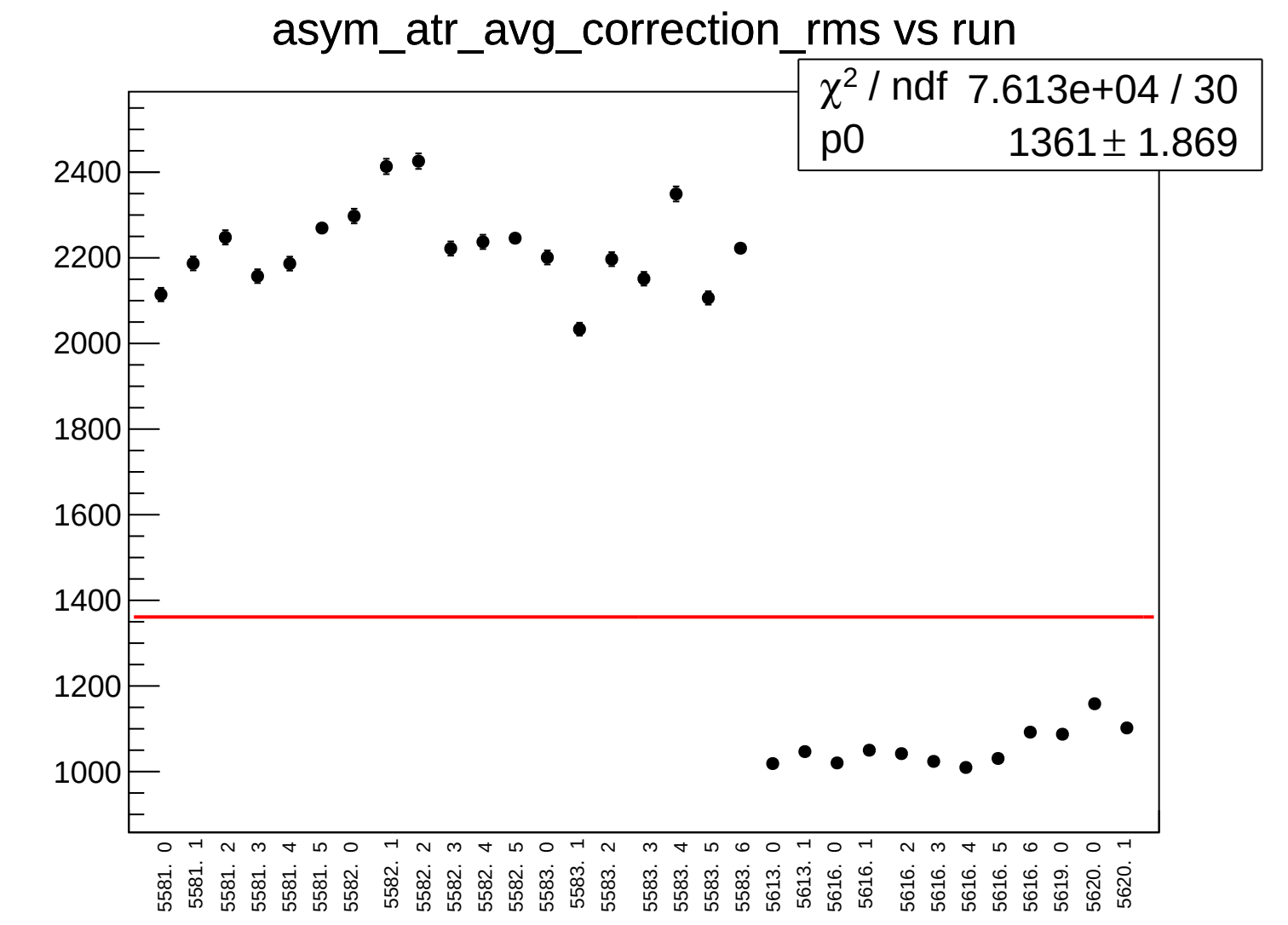

dit_asym_atr_avg_mean vs run
×10^3
χ^2 / ndf 22.2 / 23
p0 −5394 ± 3799
50
0
−50
−100
−150
−200
−250
−300
−350
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5619. 0
5620. 0
5620. 1
pull
Entries 24
Mean 24.17
Std Dev 8.65
2
1.5
1
0.5
0
−0.5
−1
−1.5

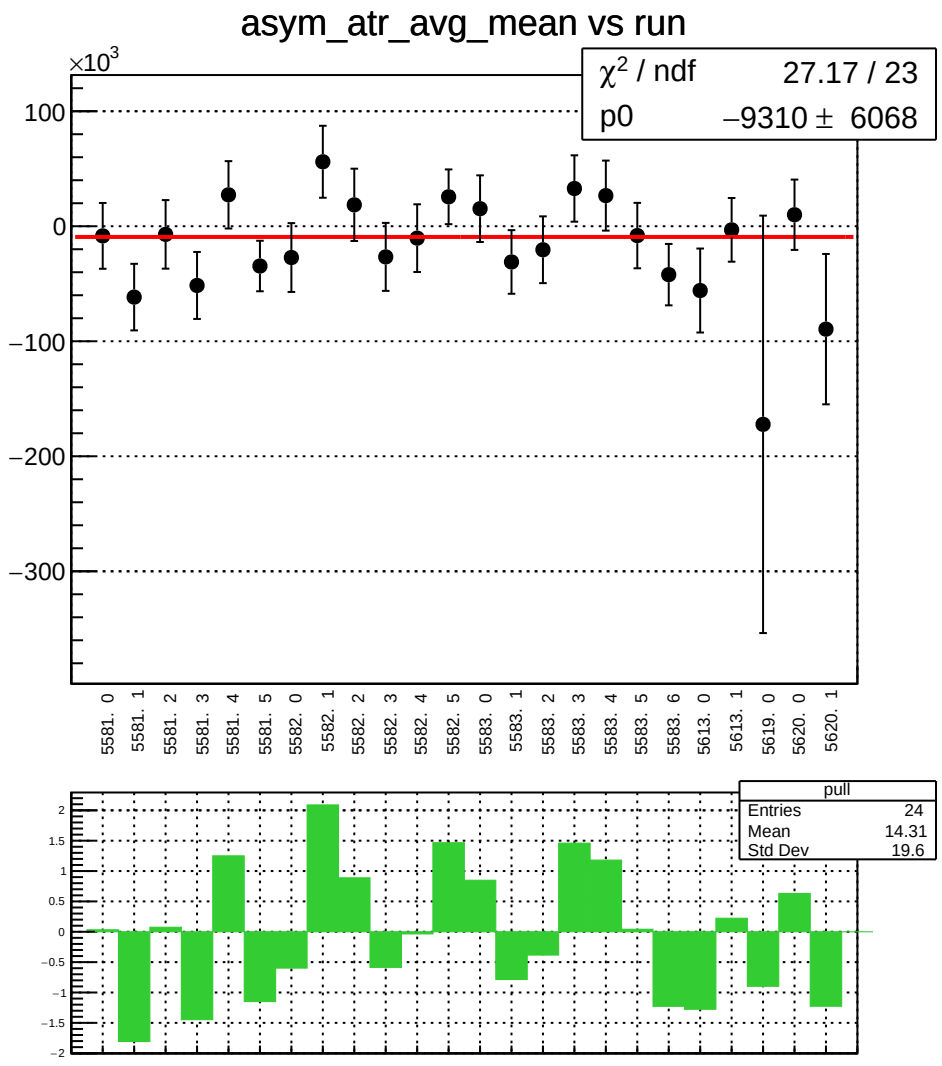

pull1D
Entries 24
Mean −0.0935
Std Dev 0.9572
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

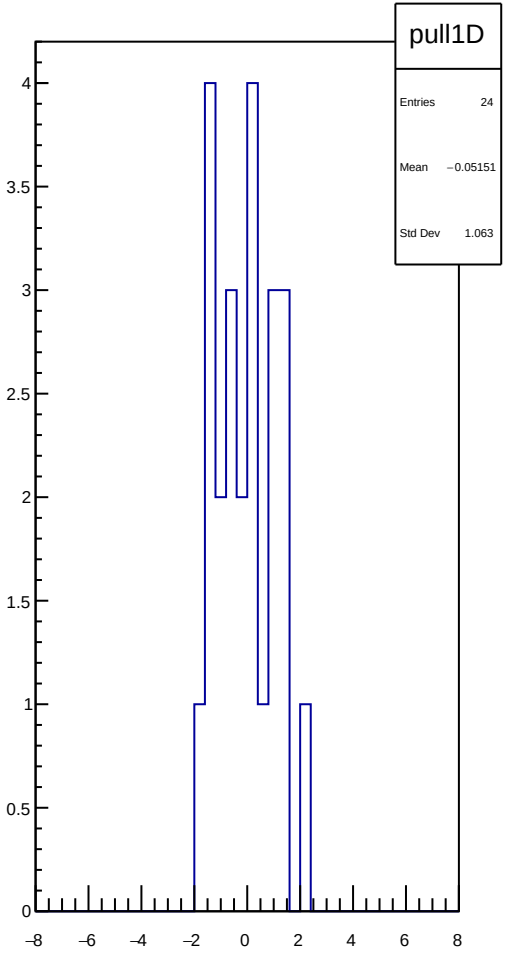

dit_asym_atr_avg_rms vs run
×10^3
240
220
200
180
160
140
120
100
80
60
40
20
χ² / ndf 1.28e+05 / 30
p0 1831 ± 2.647
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

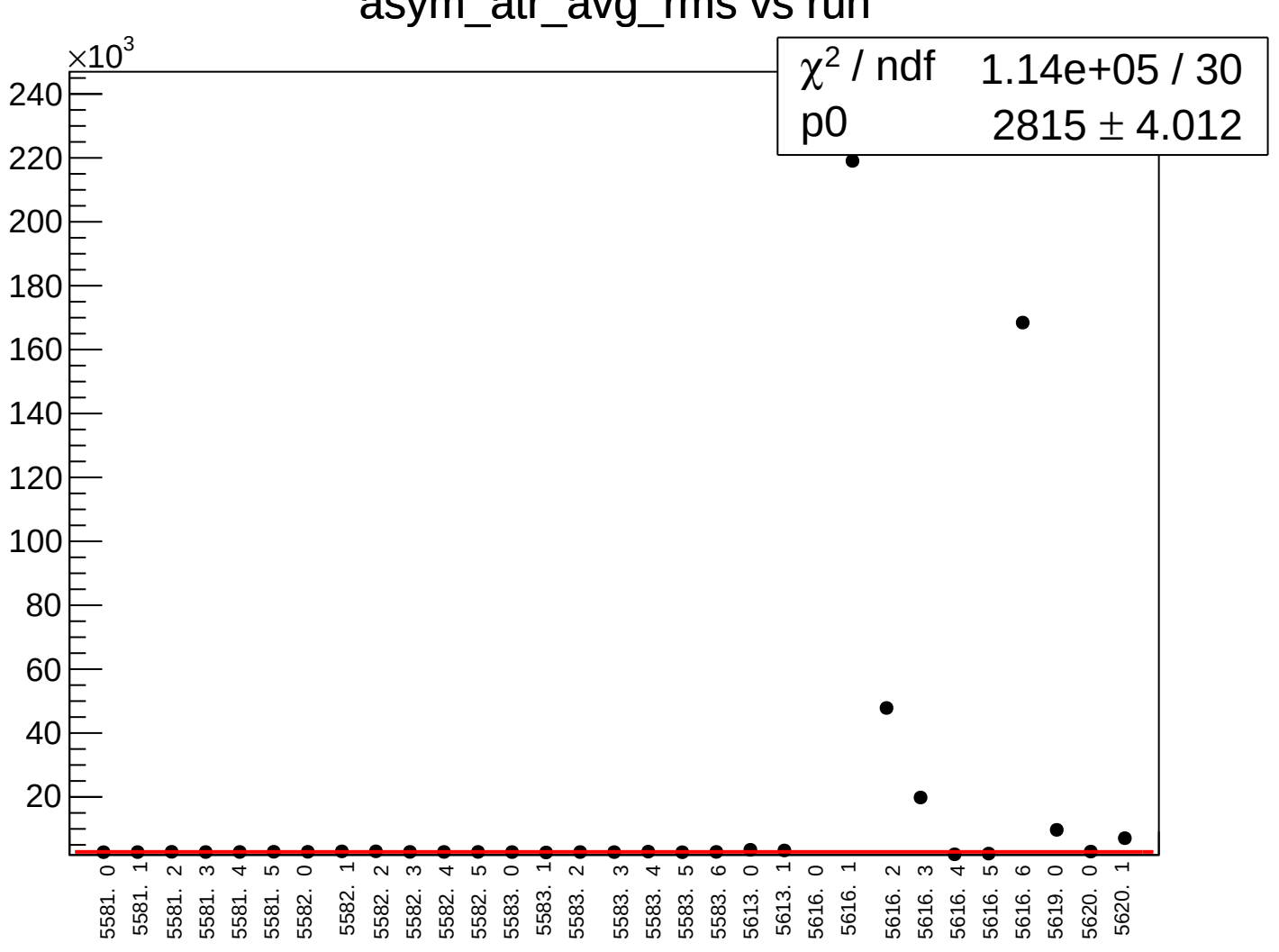

asym_atr_avg_correction_mean vs run
χ² / ndf 30.71 / 30
p0 511.5 ± 2643
80000
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −46.61
Std Dev 51.93
2
1.5
1
0.5
0
−0.5
−1
−1.5

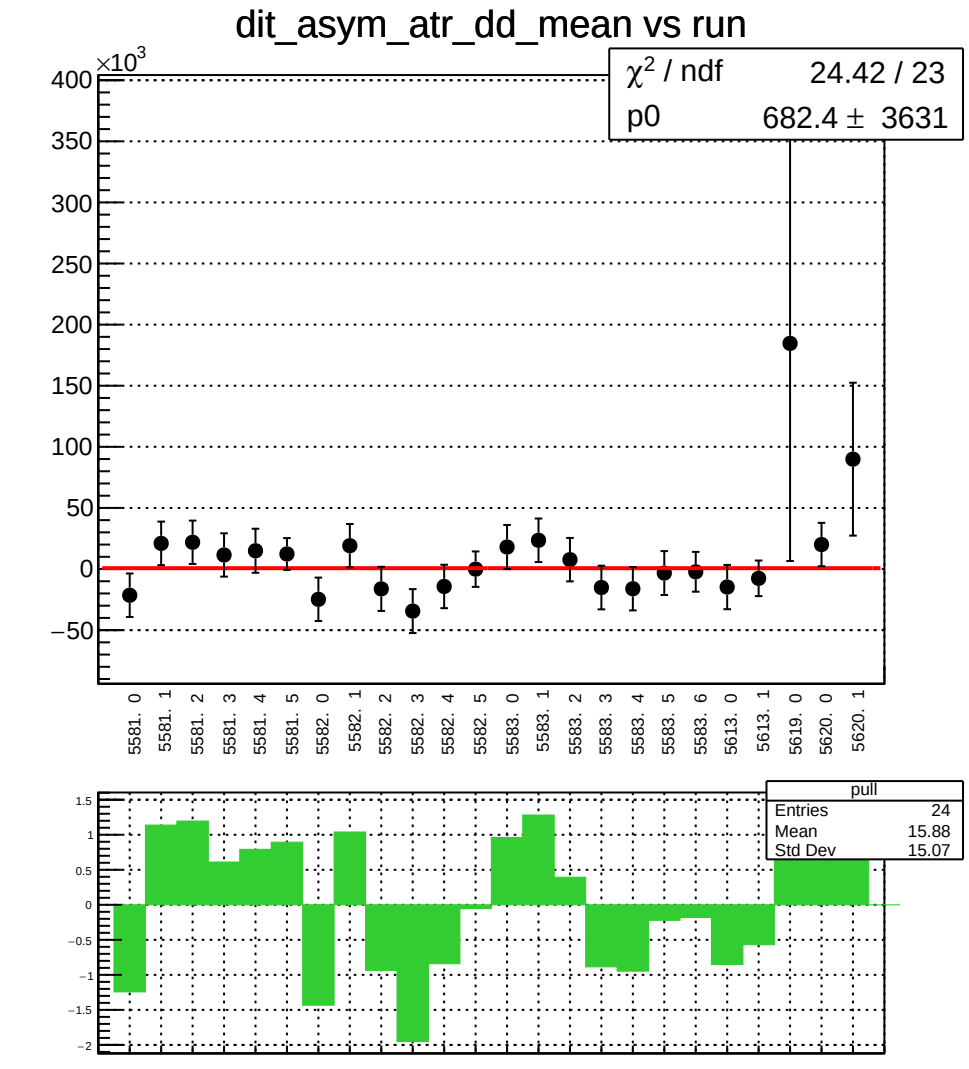

pull1D
Entries 31
Mean 0.02234
Std Dev 0.9951
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

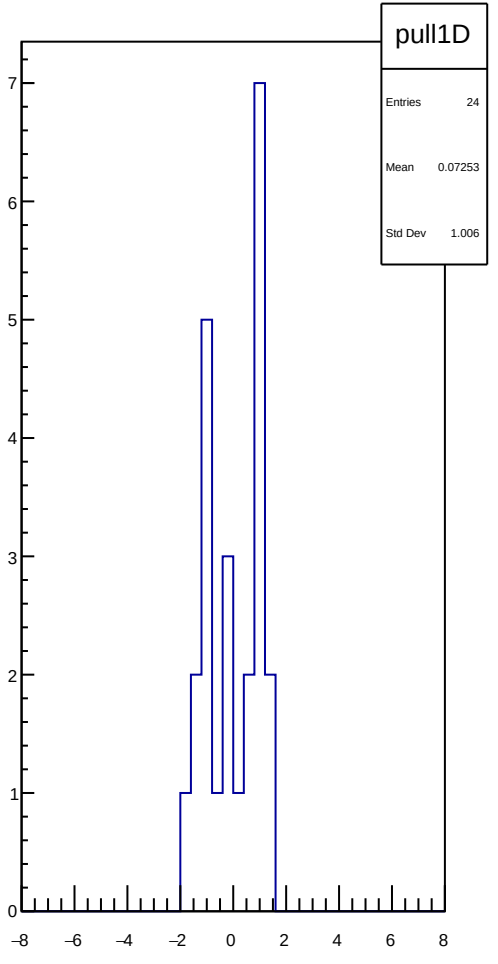

asym_atr_avg_correction_rms vs run
χ² / ndf 7.613e+04 / 30
p0 1361 ± 1.869
2400
2200
2000
1800
1600
1400
1200
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

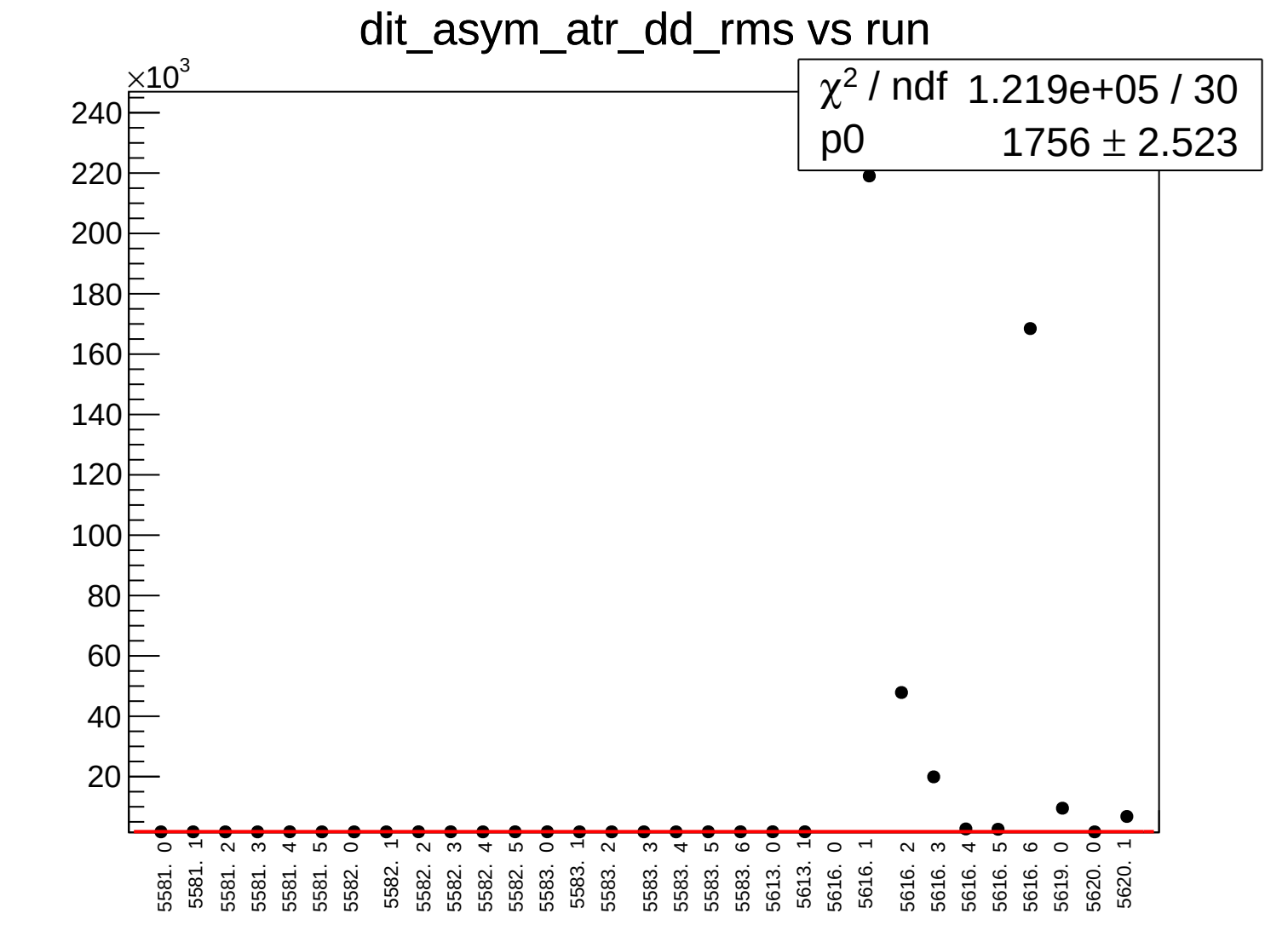

asym_atr_avg_mean vs run
×10^3
χ^2 / ndf 27.17 / 23
p0 −9310 ± 6068
100
0
−100
−200
−300
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5619. 0
5620. 0
5620. 1
pull
Entries 24
Mean 14.31
Std Dev 19.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

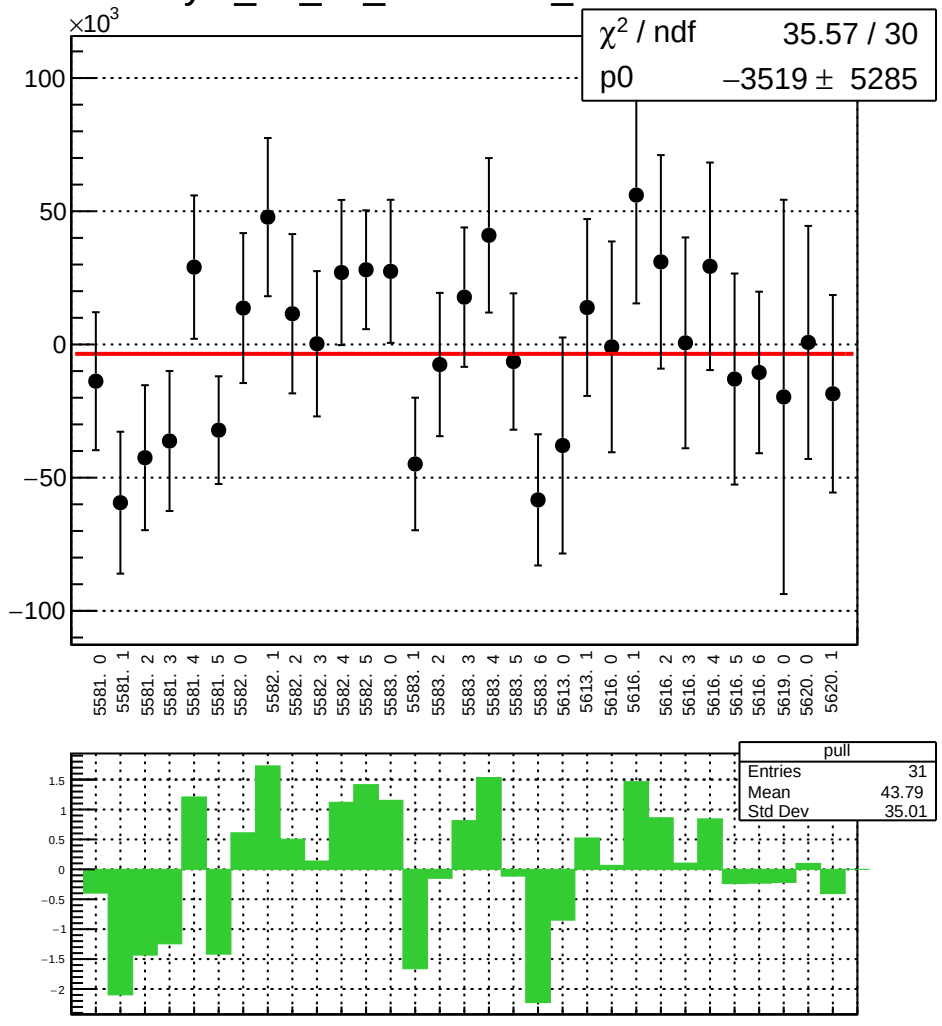

pull1D
Entries 24
Mean −0.05151
Std Dev 1.063
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

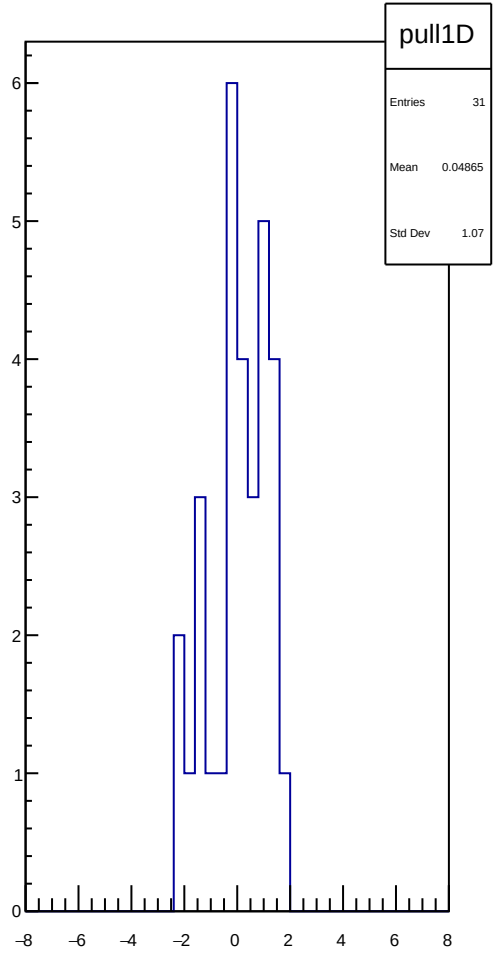

asym_atr_avg_rms vs run
×10^3
χ^2 / ndf 1.14e+05 / 30
p0 2815 ± 4.012
240
220
200
180
160
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

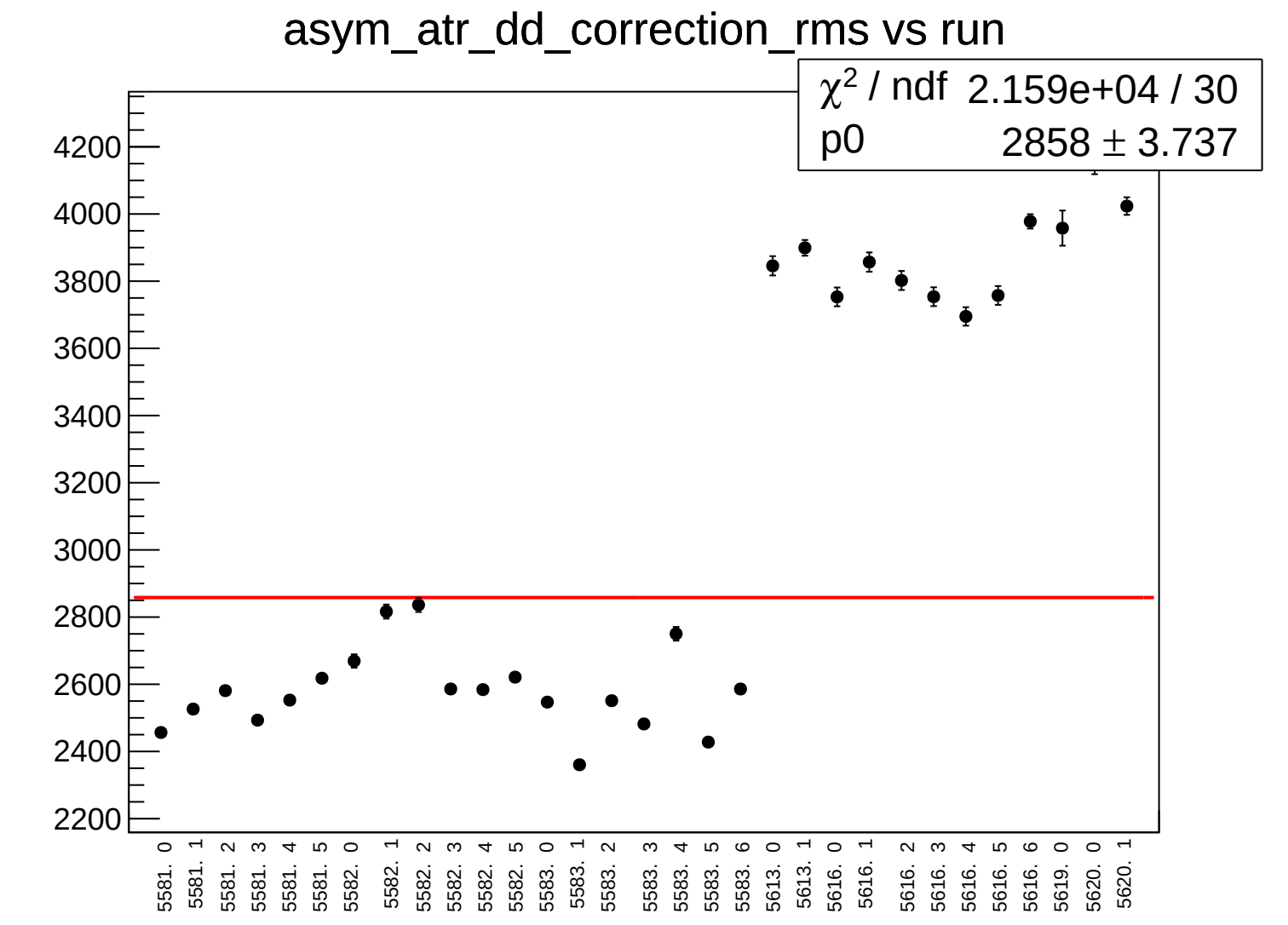

dit_asym_atr_dd_mean vs run
×10^3
χ^2 / ndf 24.42 / 23
p0 682.4 ± 3631
400
350
300
250
200
150
100
50
0
−50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5619. 0
5620. 0
5620. 1
pull
Entries 24
Mean 15.88
Std Dev 15.07
1.5
1
0.5
0
−0.5
−1
−1.5
−2

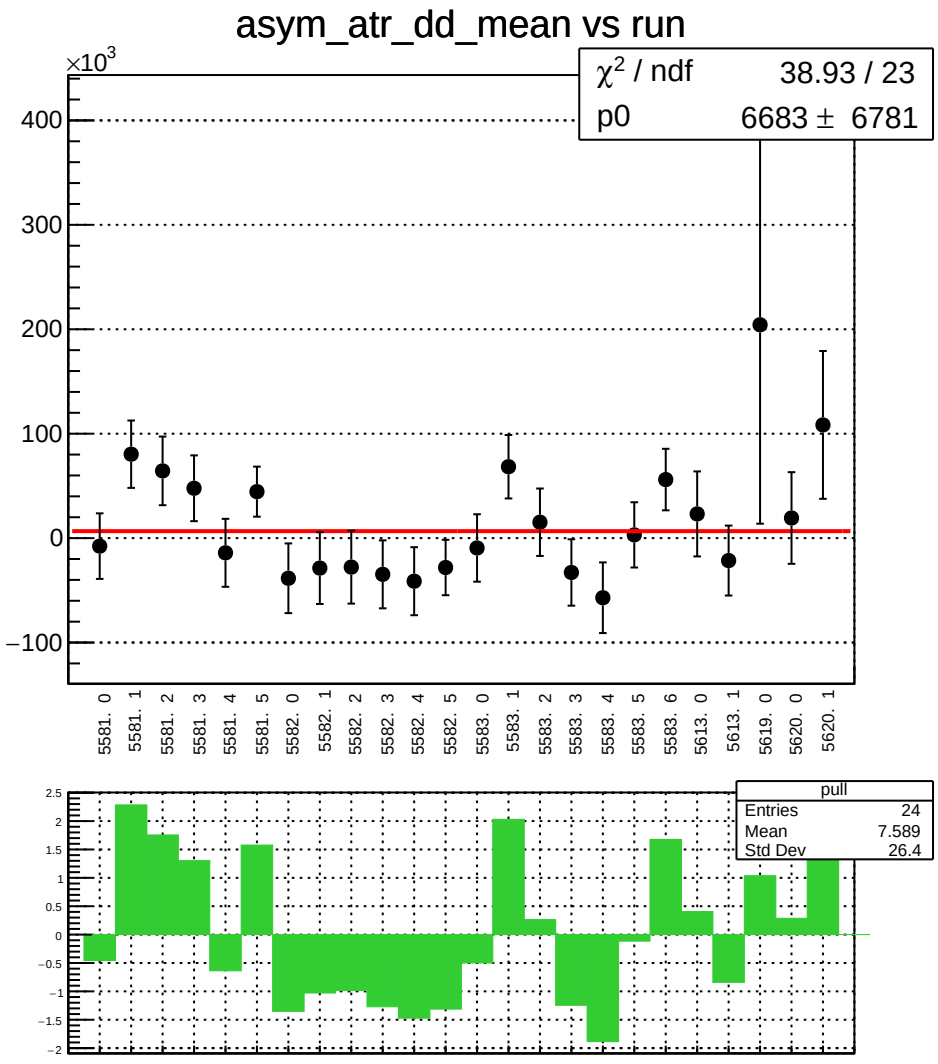

pull1D
Entries 24
Mean 0.07253
Std Dev 1.006
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

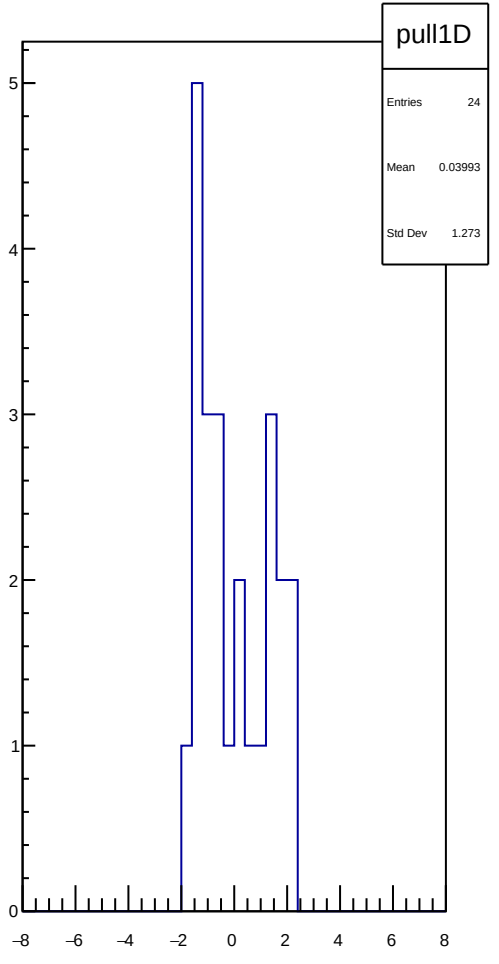

dit_asym_atr_dd_rms vs run
×10^3
240
220
200
180
160
140
120
100
80
60
40
20
χ² / ndf 1.219e+05 / 30
p0 1756 ± 2.523
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

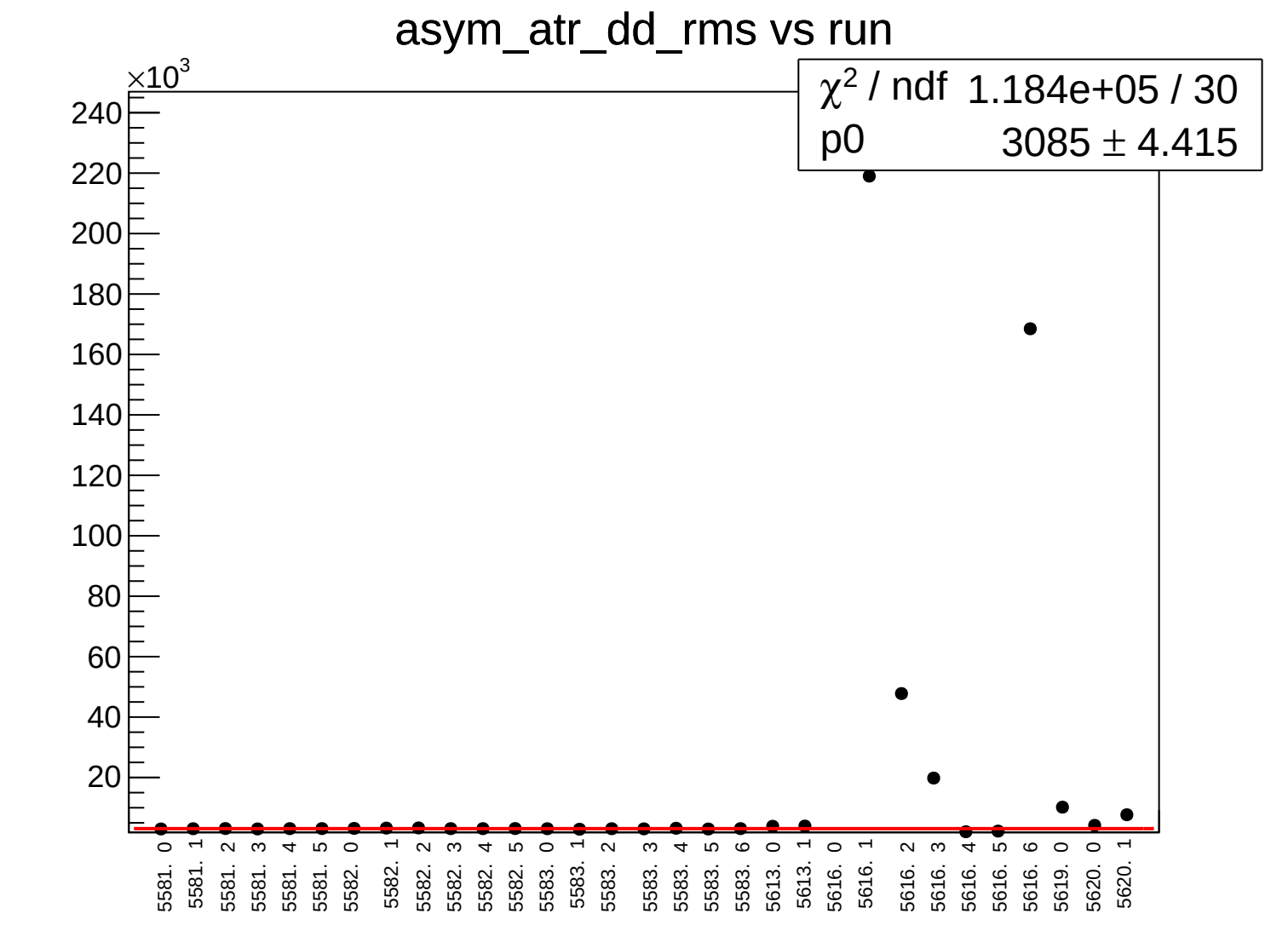

asym_atr_dd_correction_mean vs run
×10^3
χ² / ndf 35.57 / 30
p0 −3519 ± 5285
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 43.79
Std Dev 35.01
1.5
1
0.5
0
−0.5
−1
−1.5
−2

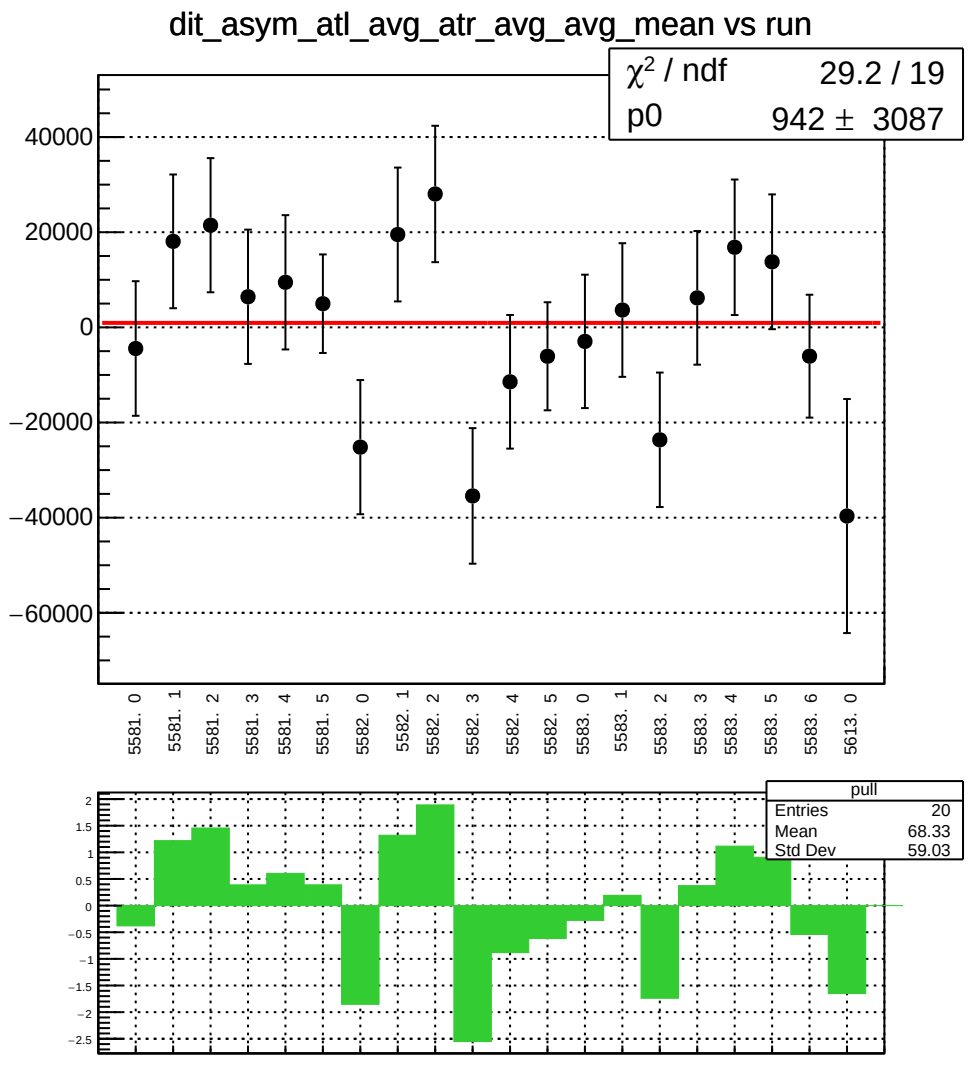

pull1D
Entries 31
Mean 0.04865
Std Dev 1.07
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

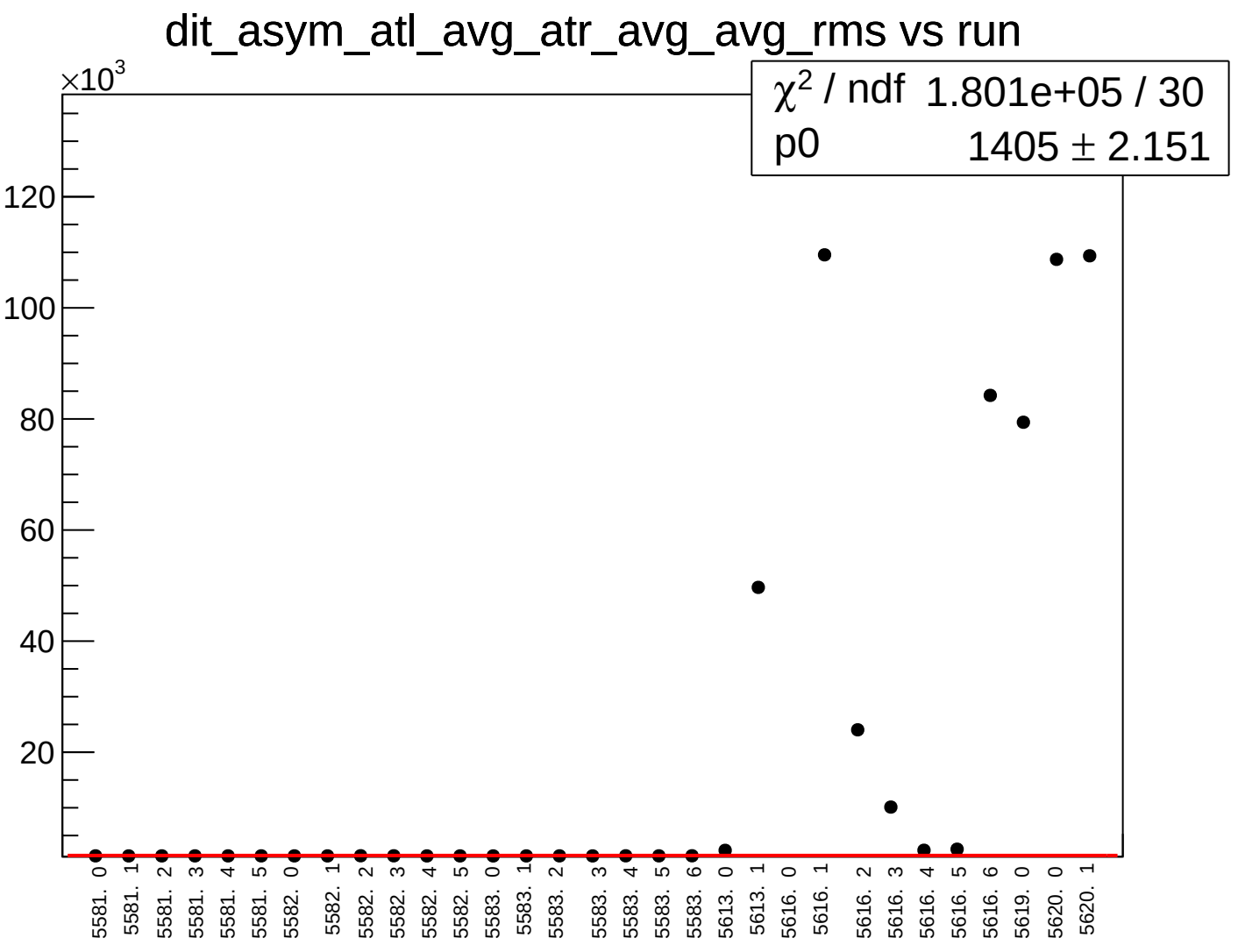

asym_atr_dd_correction_rms vs run
χ² / ndf 2.159e+04 / 30
p0 2858 ± 3.737
4200
4000
3800
3600
3400
3200
3000
2800
2600
2400
2200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

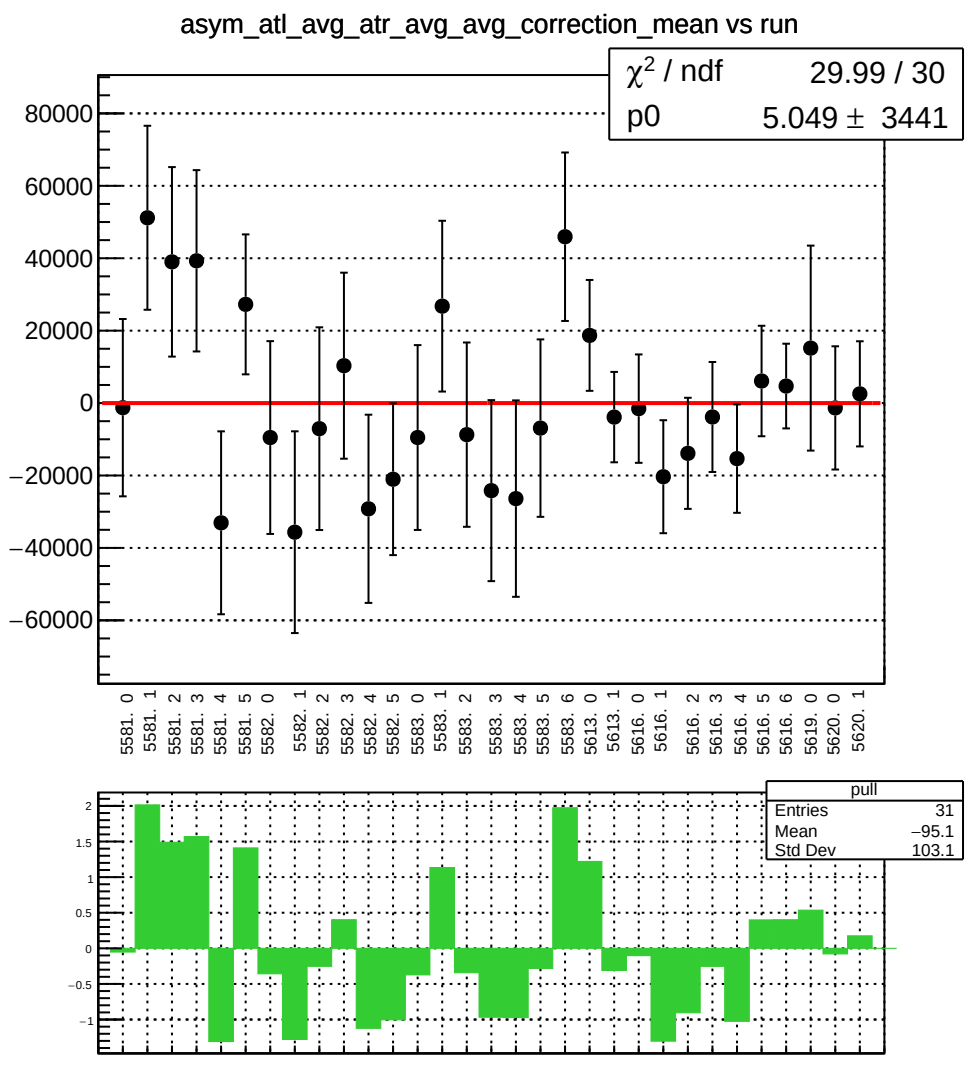

asym_atr_dd_mean vs run
×10^3
χ^2 / ndf 38.93 / 23
p0 6683 ± 6781
400
300
200
100
0
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5619. 0
5620. 0
5620. 1
pull
Entries 24
Mean 7.589
Std Dev 26.4
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

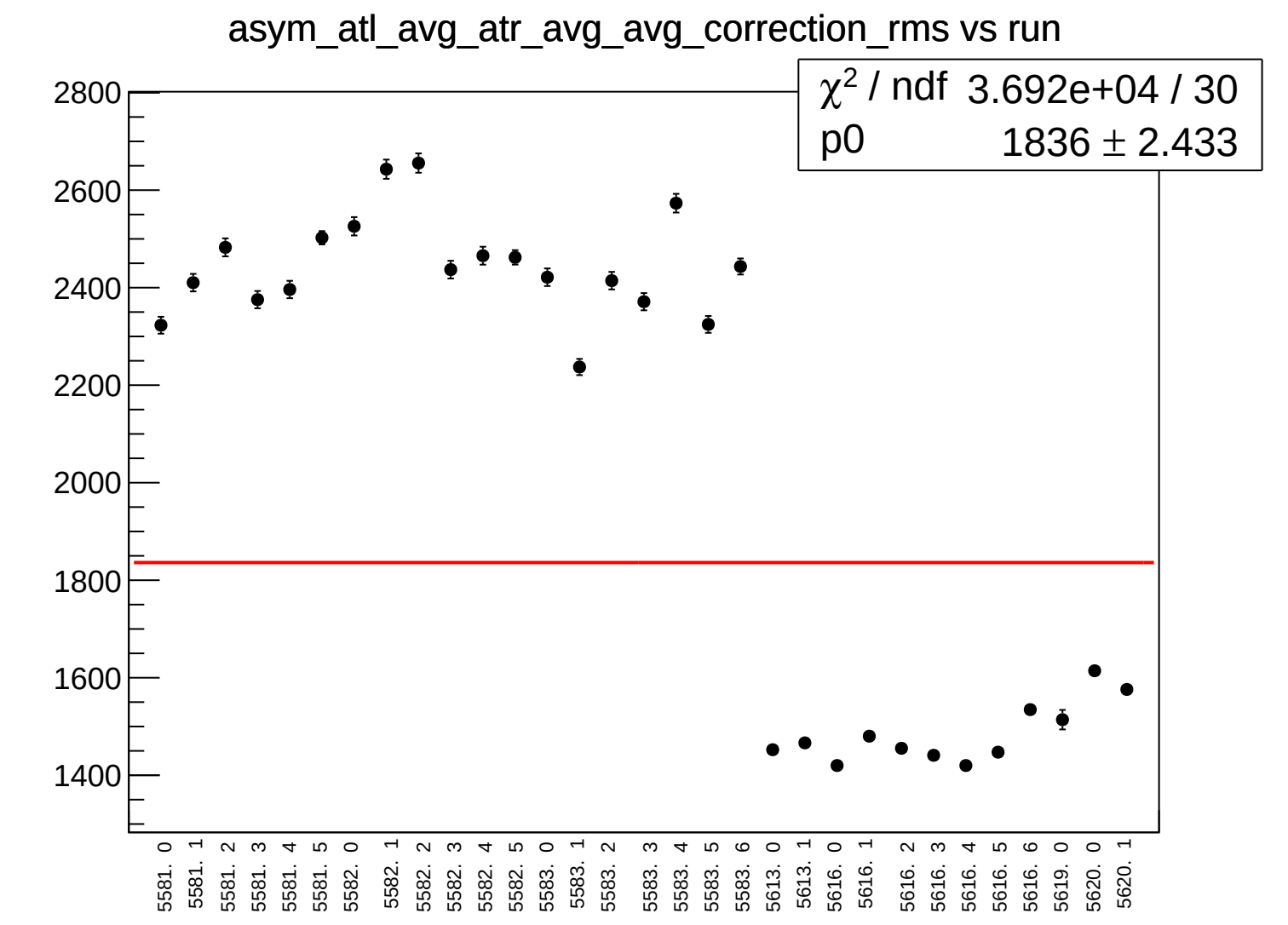

pull1D
Entries 24
Mean 0.03993
Std Dev 1.273
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

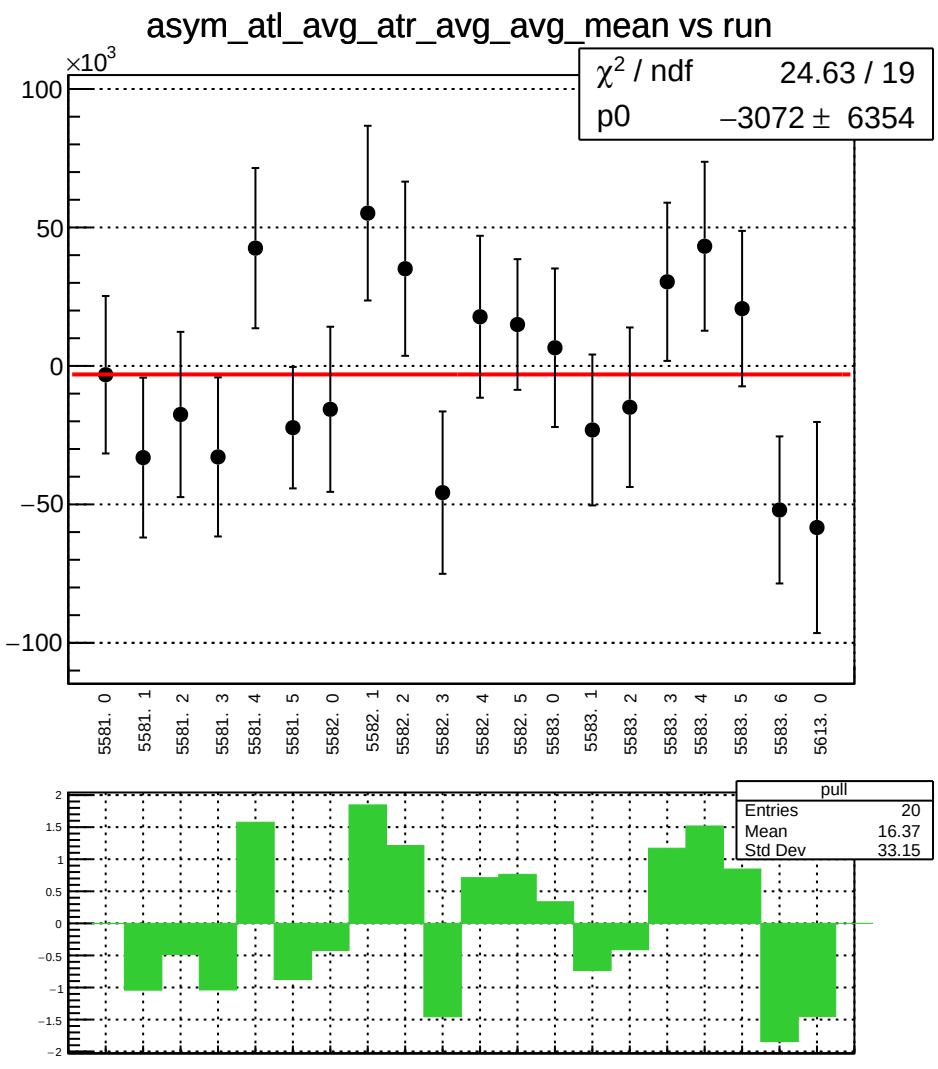

asym_atr_dd_rms vs run
×10^3
χ^2 / ndf 1.184e+05 / 30
p0 3085 ± 4.415
240
220
200
180
160
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

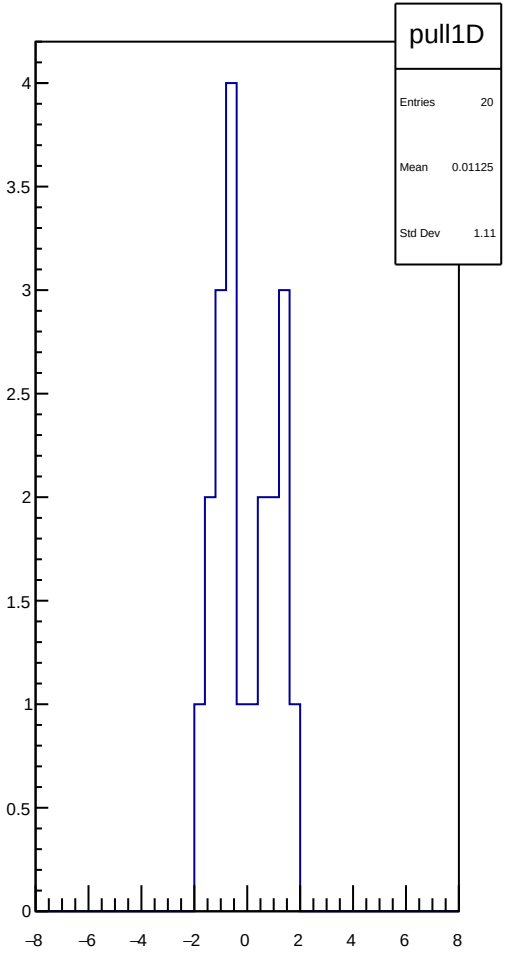

dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 29.2 / 19
p0 942 ± 3087
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 20
Mean 68.33
Std Dev 59.03
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 20
Mean −0.03175
Std Dev 1.208
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

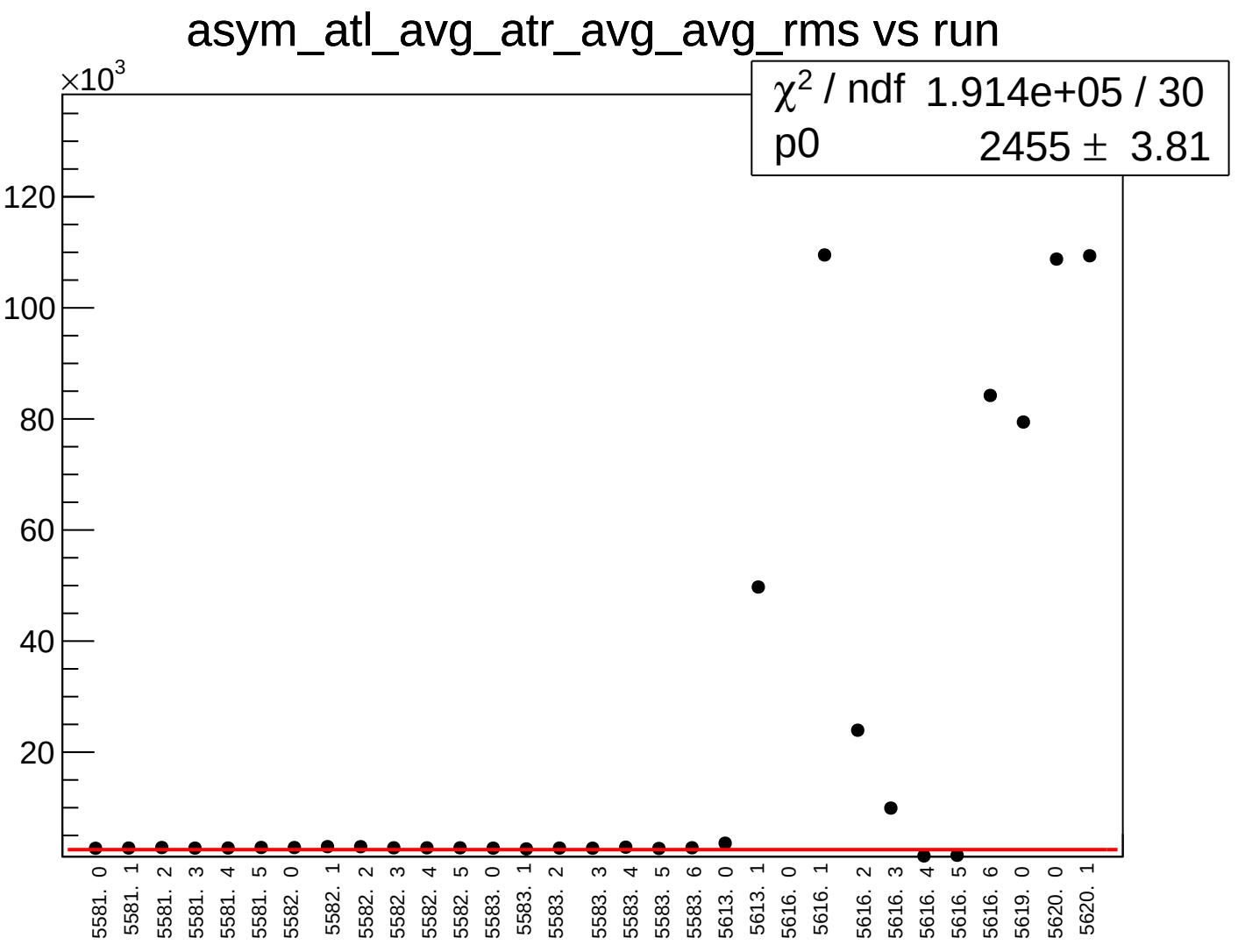

dit_asym_atl_avg_atr_avg_avg_rms vs run
×10^3
χ^2 / ndf 1.801e+05 / 30
p0 1405 ± 2.151
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

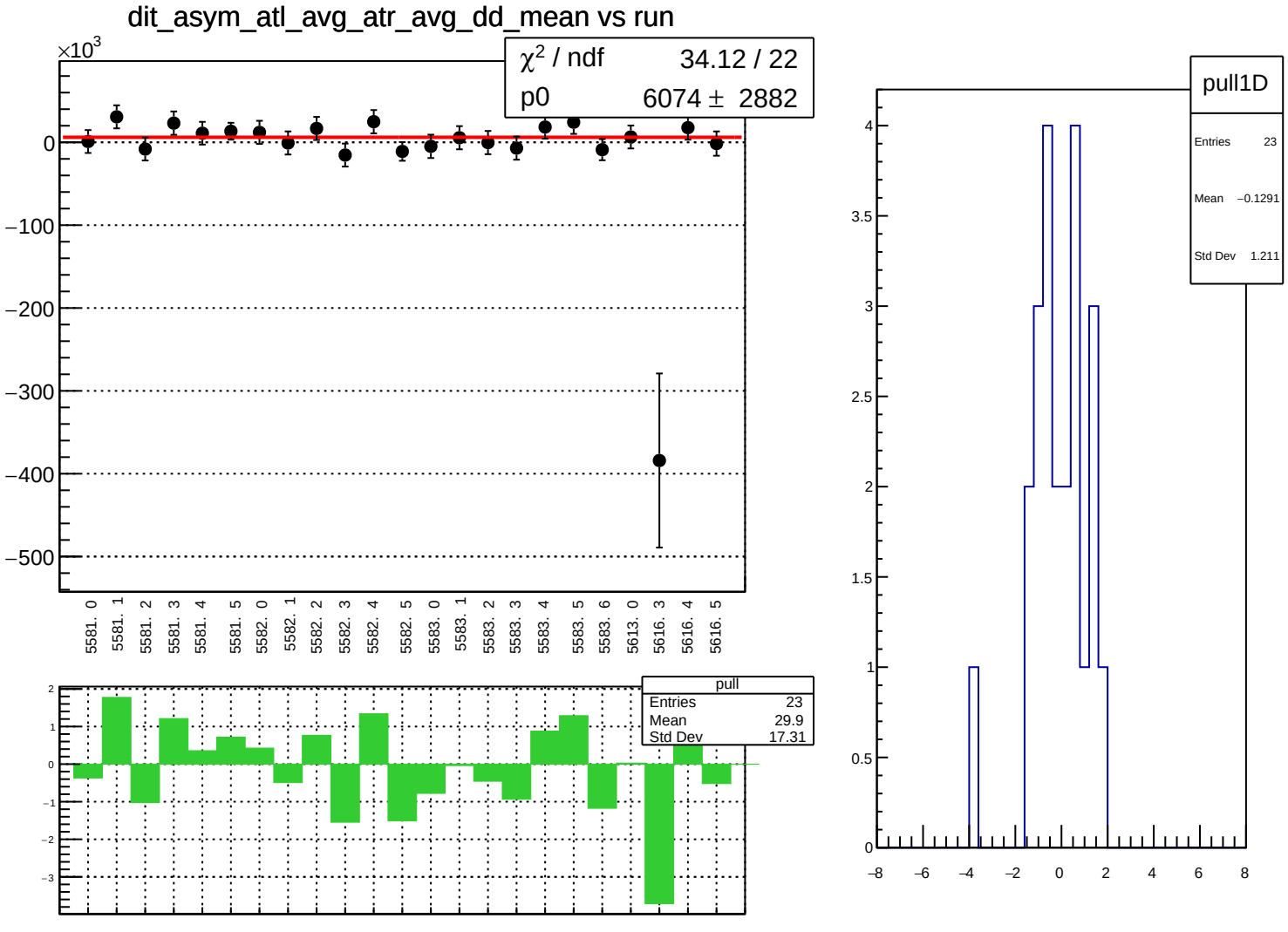

asym_atl_avg_atr_avg_avg_correction_mean vs run
χ² / ndf 29.99 / 30
p0 5.049 ± 3441
80000
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −95.1
Std Dev 103.1
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 31
Mean 0.01393
Std Dev 0.9835
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

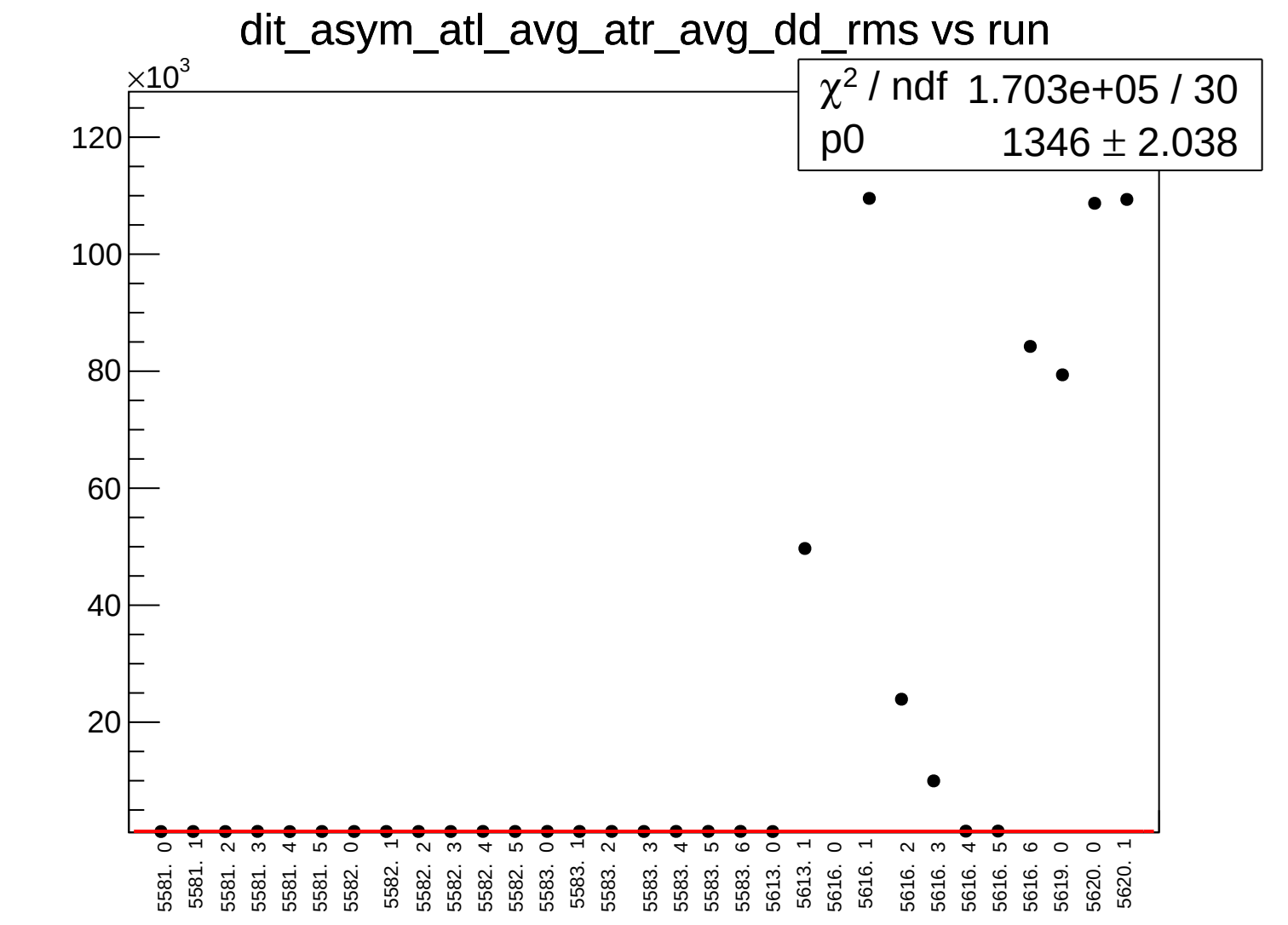

asym_atl_avg_atr_avg_avg_correction_rms vs run
χ² / ndf 3.692e+04 / 30
p0 1836 ± 2.433
2800
2600
2400
2200
2000
1800
1600
1400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

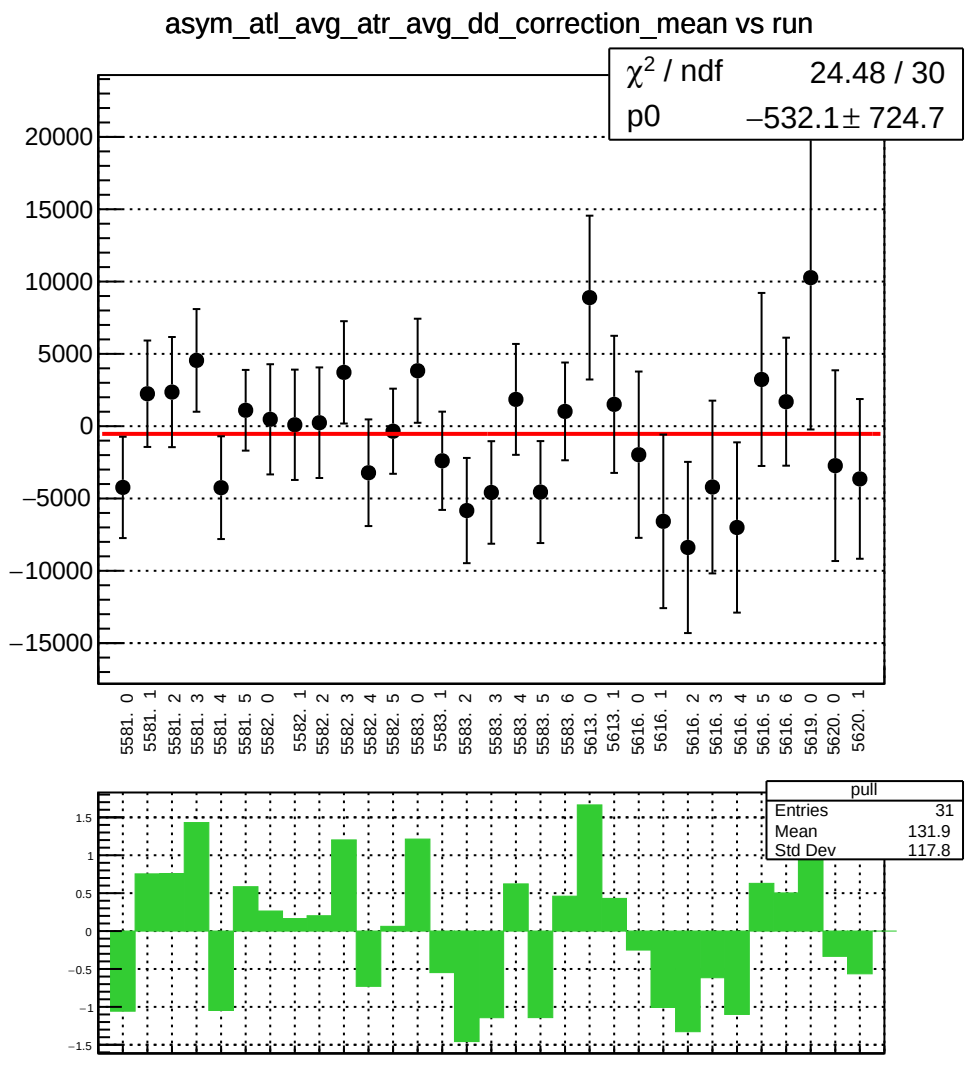

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 24.63 / 19
p0 −3072 ± 6354
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 20
Mean 16.37
Std Dev 33.15
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

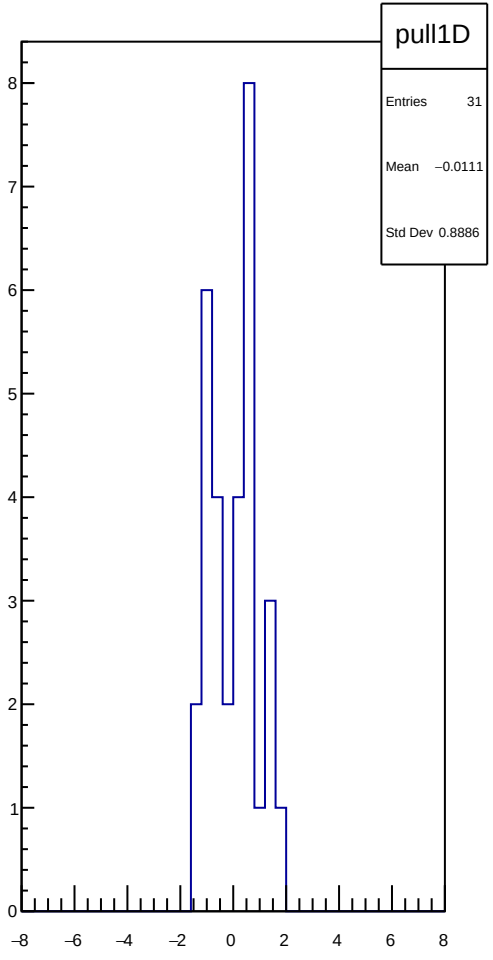

pull1D
Entries 20
Mean 0.01125
Std Dev 1.11
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

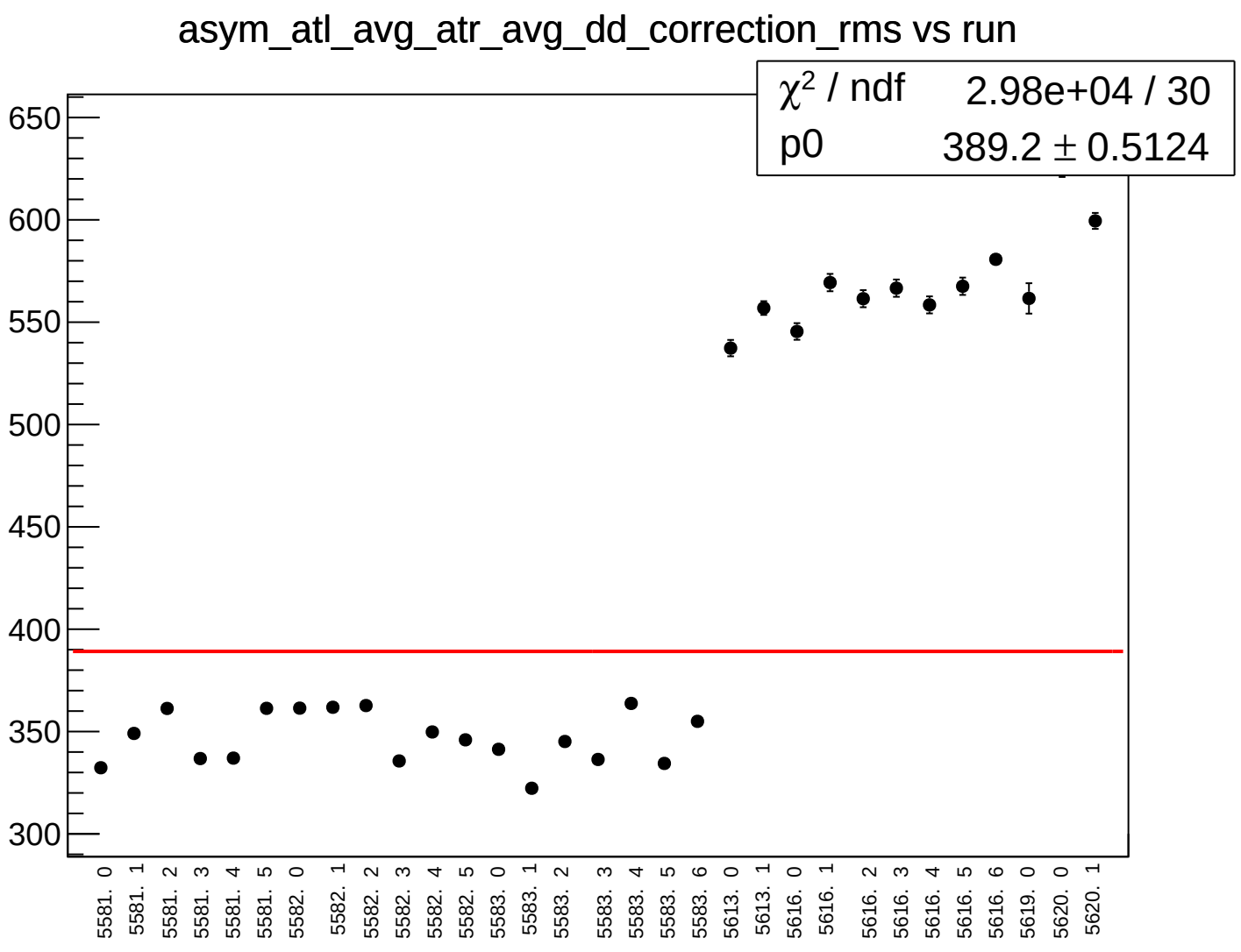

asym_atl_avg_atr_avg_avg_rms vs run
×10^3
χ^2 / ndf 1.914e+05 / 30
p0 2455 ± 3.81
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

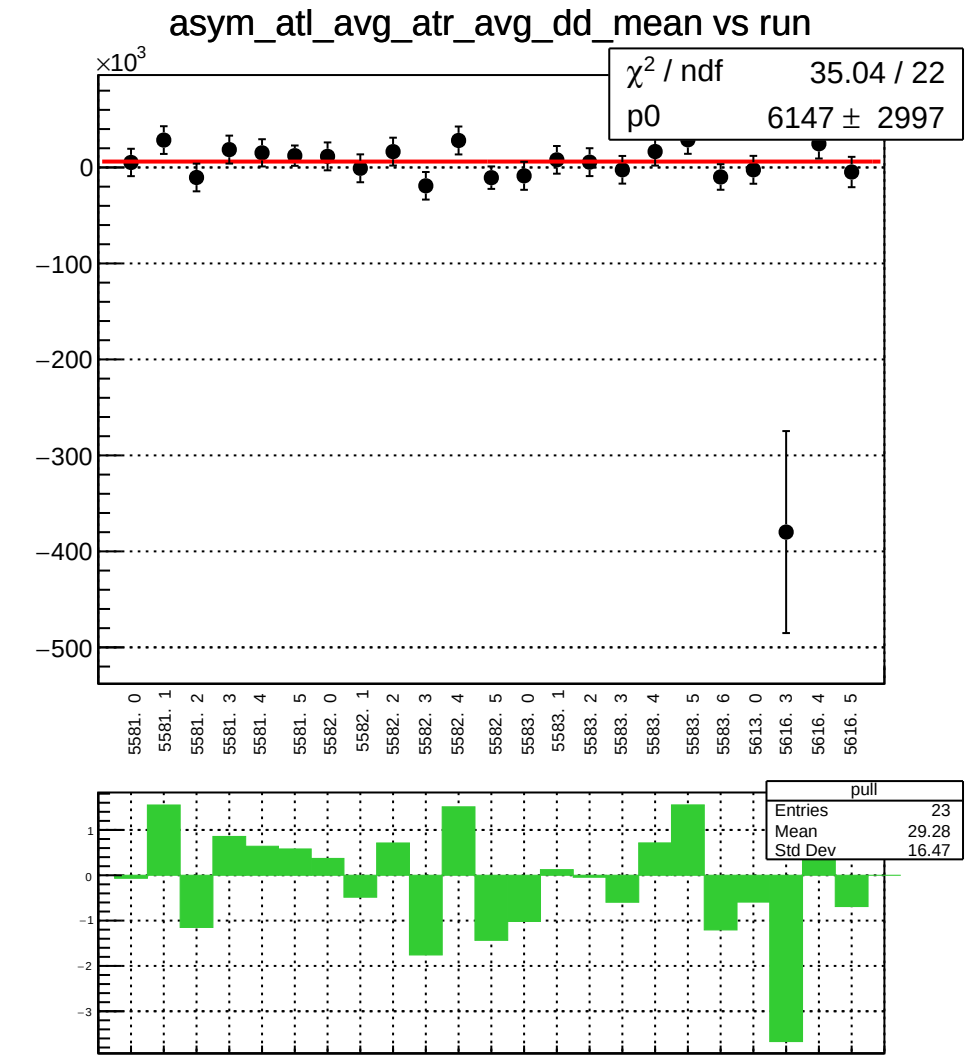

dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 34.12 / 22
p0 6074 ± 2882
×10³
0
−100
−200
−300
−400
−500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5616. 3
5616. 4
5616. 5
pull
Entries 23
Mean 29.9
Std Dev 17.31
pull1D
Entries 23
Mean −0.1291
Std Dev 1.211

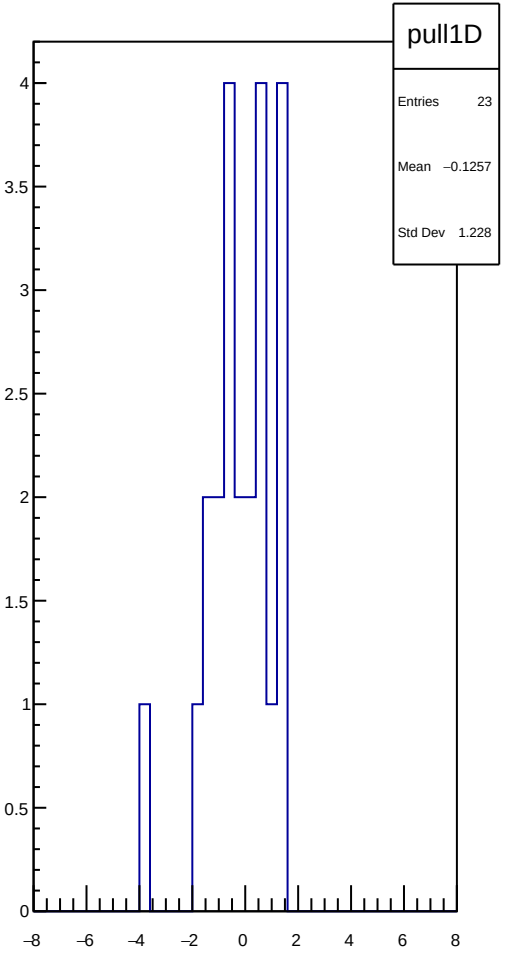

dit_asym_atl_avg_atr_avg_dd_rms vs run
×10^3
120
100
80
60
40
20
χ² / ndf 1.703e+05 / 30
p0 1346 ± 2.038
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

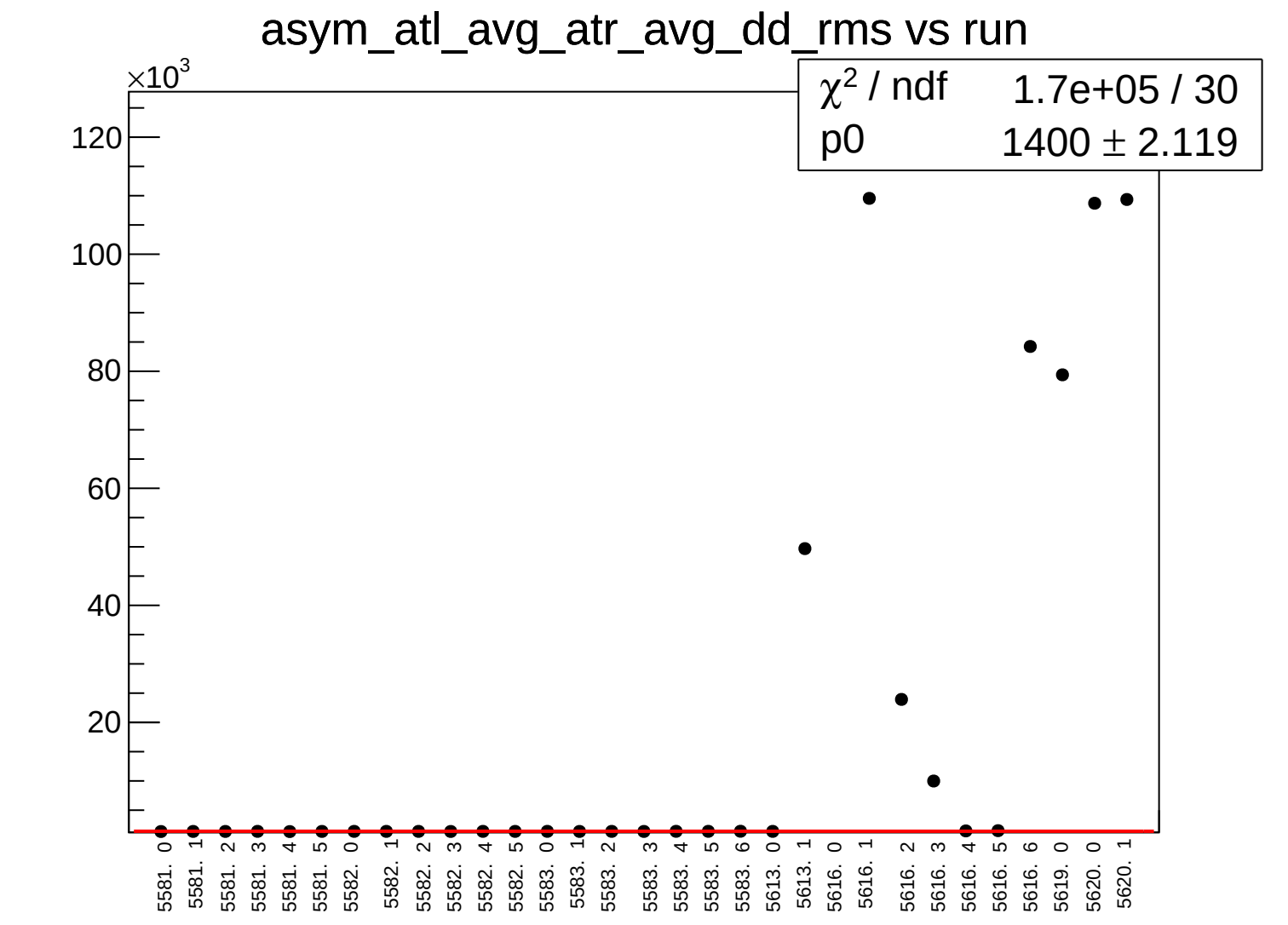

asym_atl_avg_atr_avg_dd_correction_mean vs run
χ² / ndf 24.48 / 30
p0 −532.1± 724.7
20000
15000
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 131.9
Std Dev 117.8
1.5
1
0.5
0
−0.5
−1
−1.5

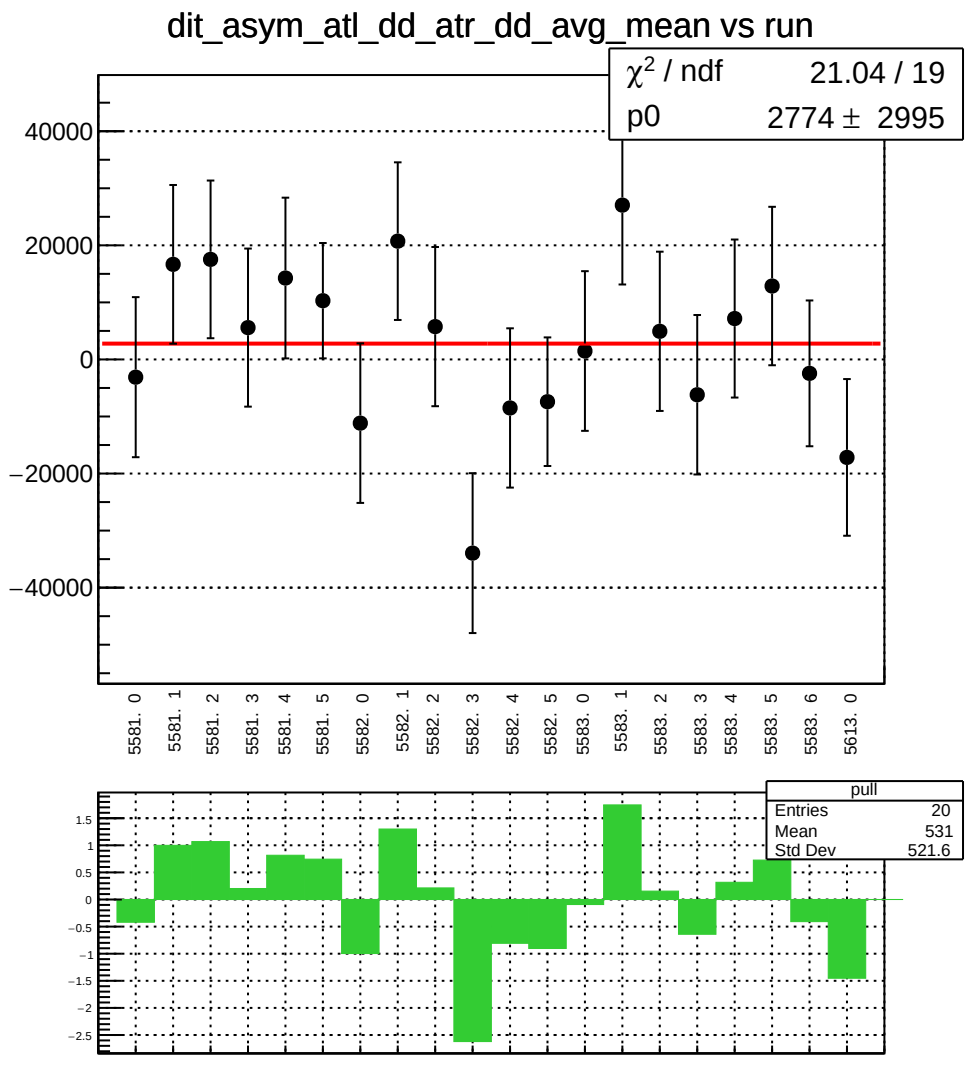

pull1D
Entries 31
Mean −0.0111
Std Dev 0.8886
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

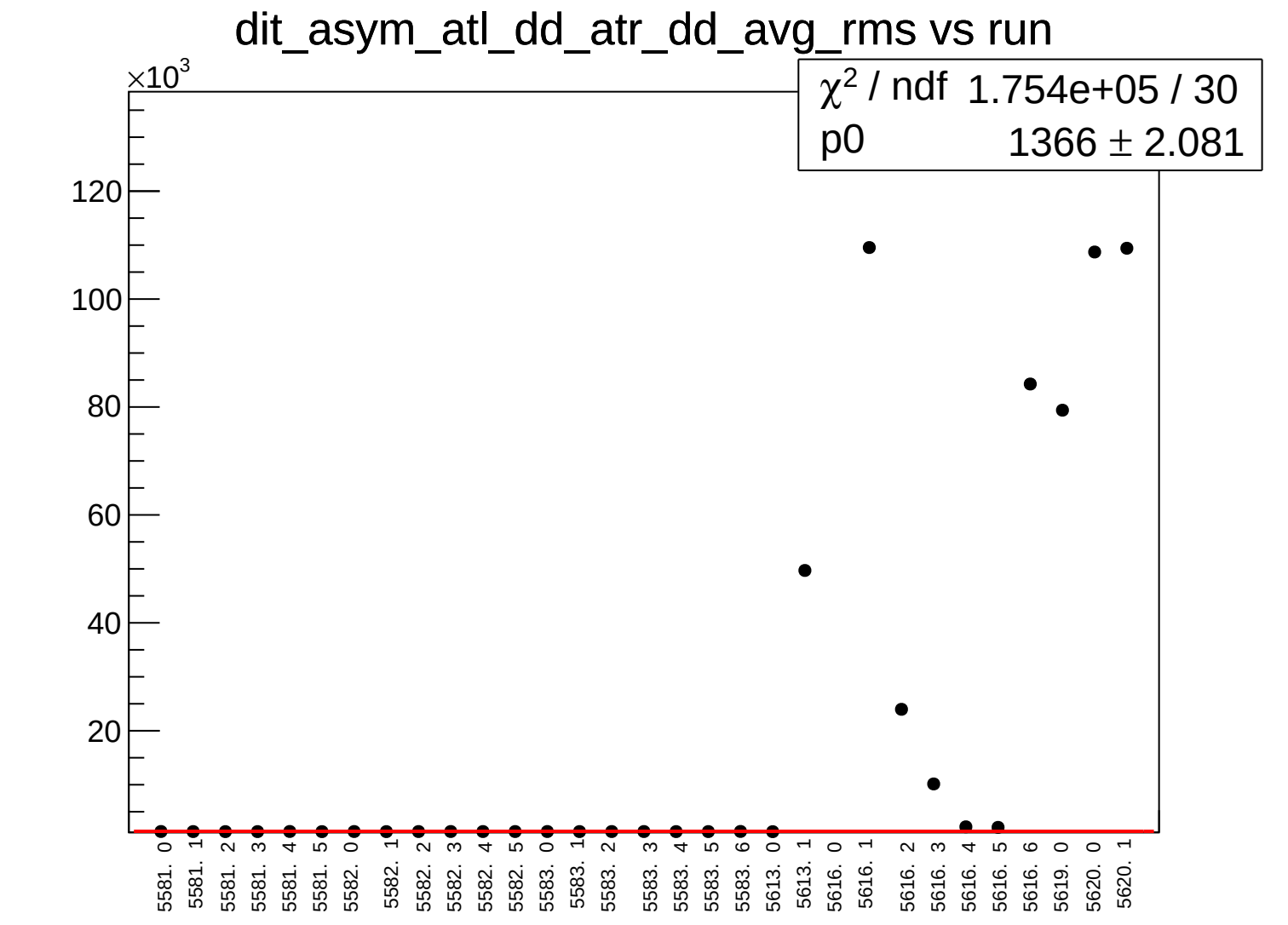

asym_atl_avg_atr_avg_dd_correction_rms vs run
χ² / ndf 2.98e+04 / 30
p0 389.2 ± 0.5124
650
600
550
500
450
400
350
300
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

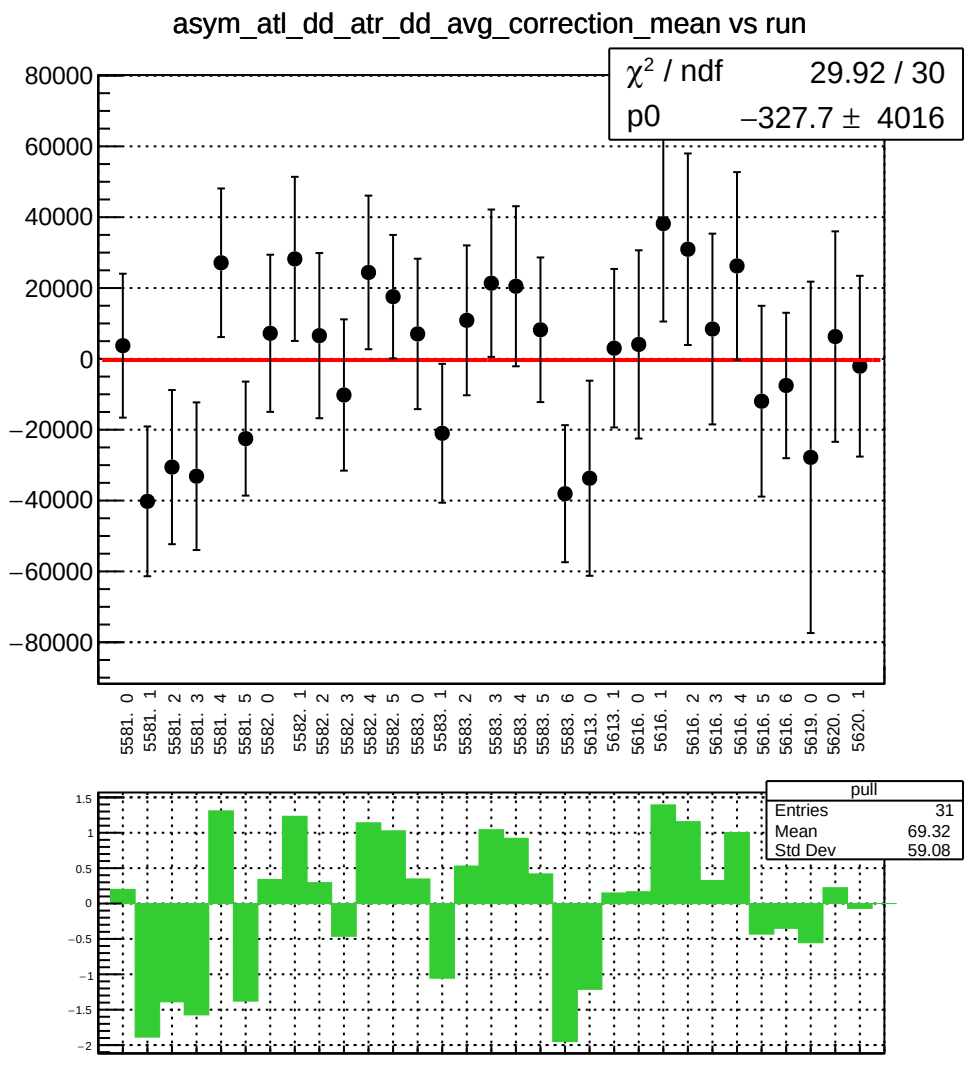

asym_atl_avg_atr_avg_dd_mean vs run
×10^3
χ² / ndf 35.04 / 22
p0 6147 ± 2997
0
−100
−200
−300
−400
−500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5616. 3
5616. 4
5616. 5
pull
Entries 23
Mean 29.28
Std Dev 16.47
1
0
−1
−2
−3

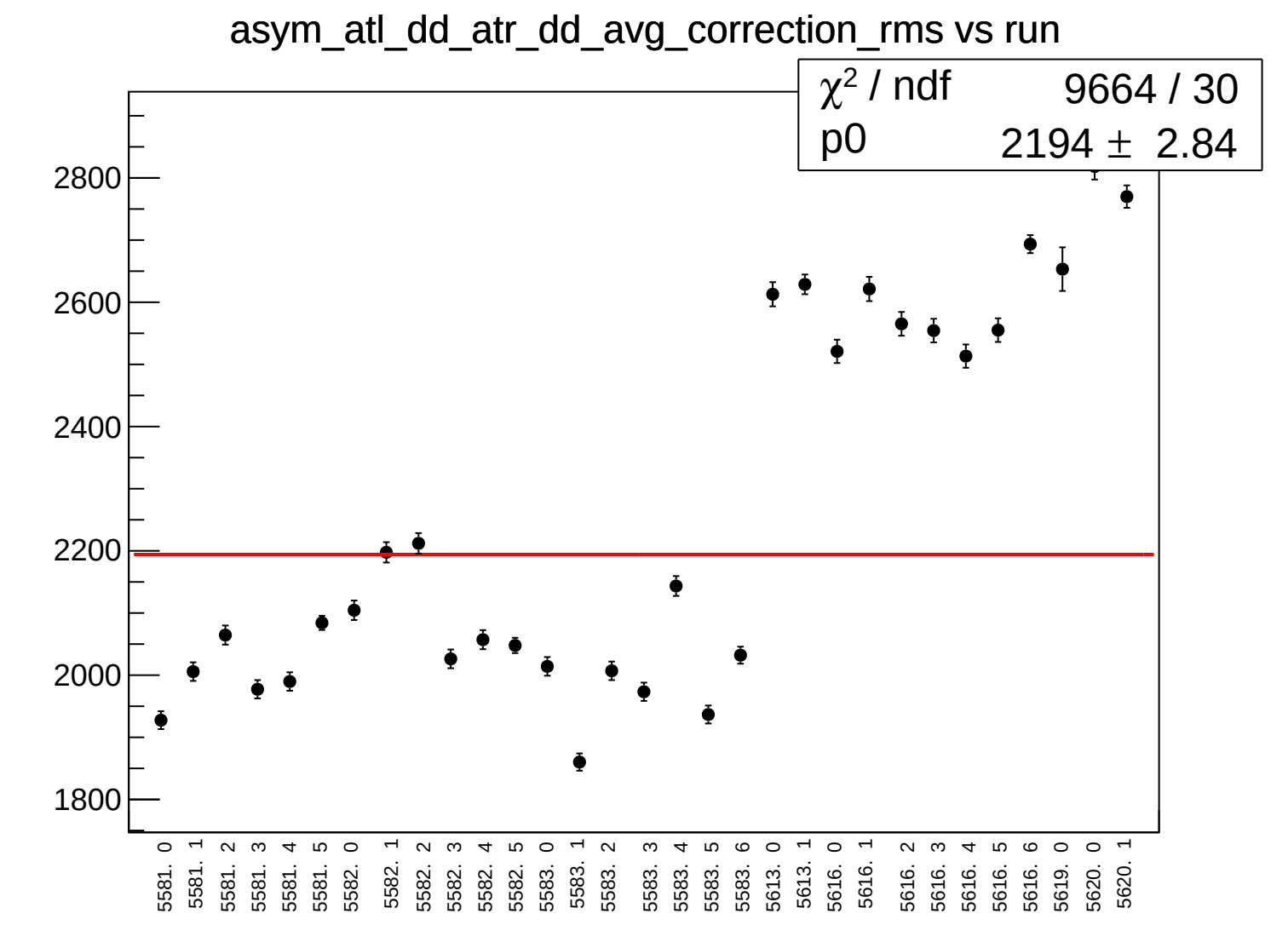

pull1D
Entries 23
Mean −0.1257
Std Dev 1.228
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

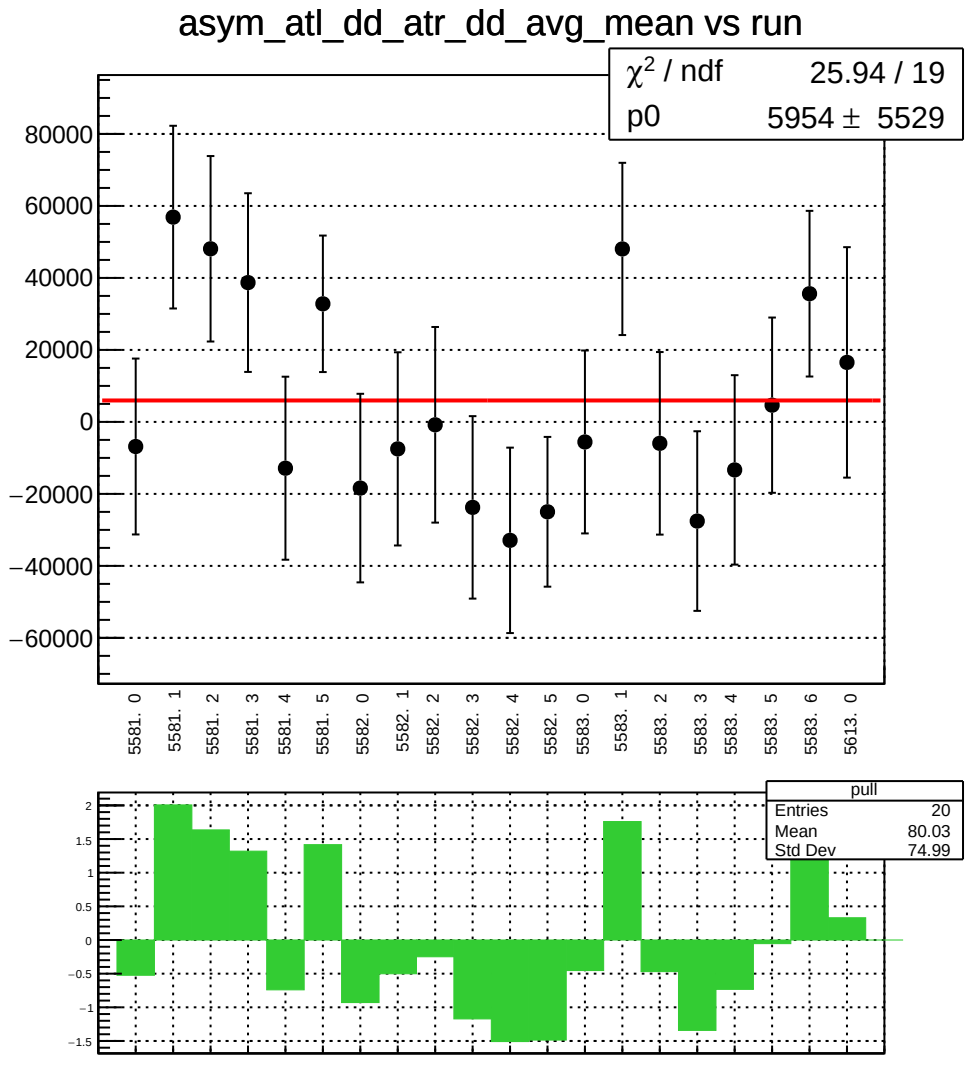

asym_atl_avg_atr_avg_dd_rms vs run
×10^3
120
100
80
60
40
20
χ² / ndf 1.7e+05 / 30
p0 1400 ± 2.119
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

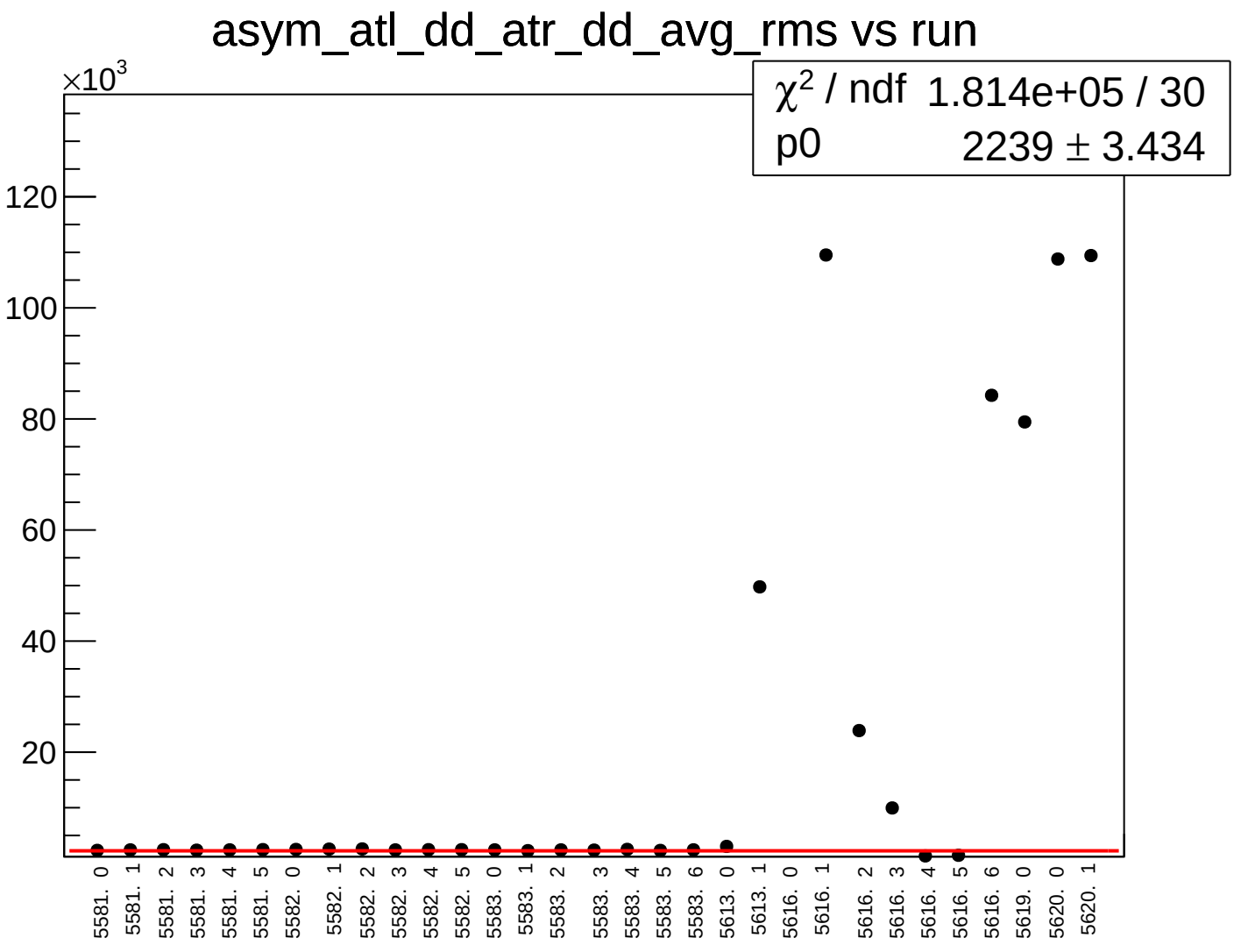

dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 21.04 / 19
p0 2774 ± 2995
40000
20000
0
−20000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 20
Mean 531
Std Dev 521.6
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 20
Mean −0.002774
Std Dev 1.026
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

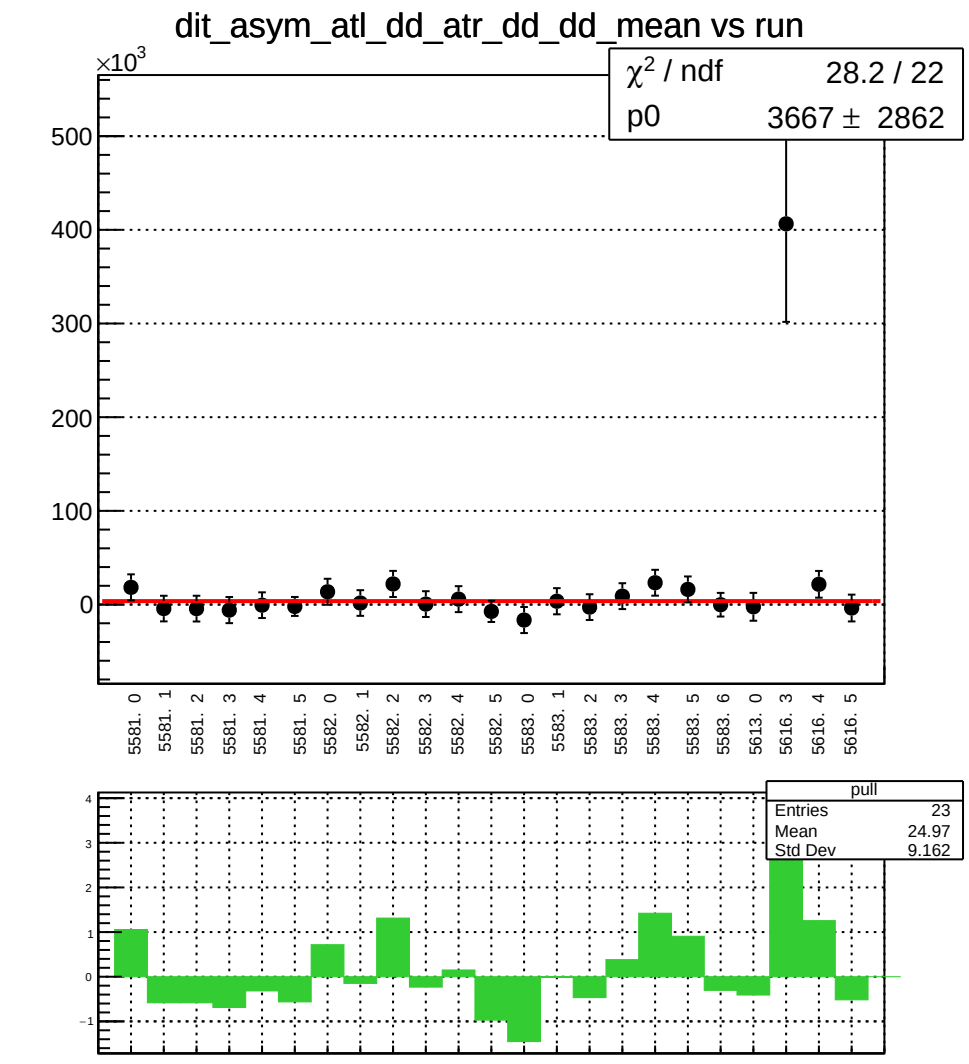

dit_asym_atl_dd_atr_dd_avg_rms vs run
×10^3
χ^2 / ndf 1.754e+05 / 30
p0 1366 ± 2.081
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

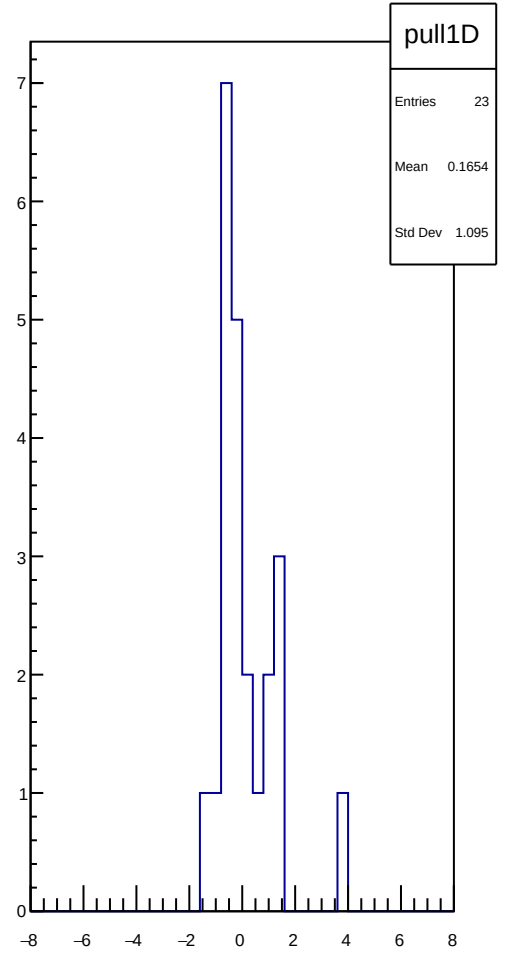

asym_atl_dd_atr_dd_avg_correction_mean vs run
χ² / ndf 29.92 / 30
p0 −327.7 ± 4016
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 69.32
Std Dev 59.08
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean 0.02935
Std Dev 0.982
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

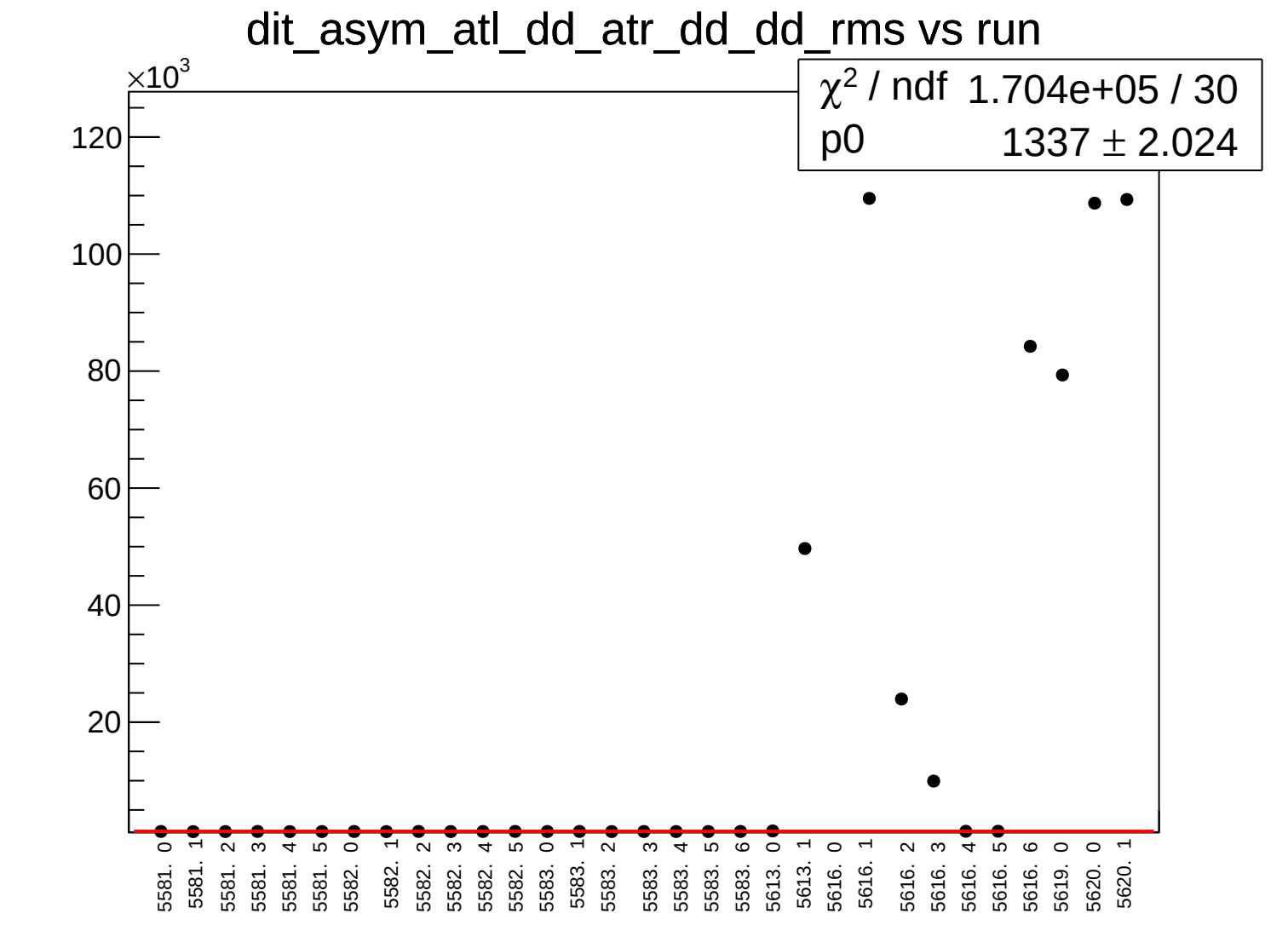

asym_atl_dd_atr_dd_avg_correction_rms vs run
χ² / ndf 9664 / 30
p0 2194 ± 2.84
2800
2600
2400
2200
2000
1800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

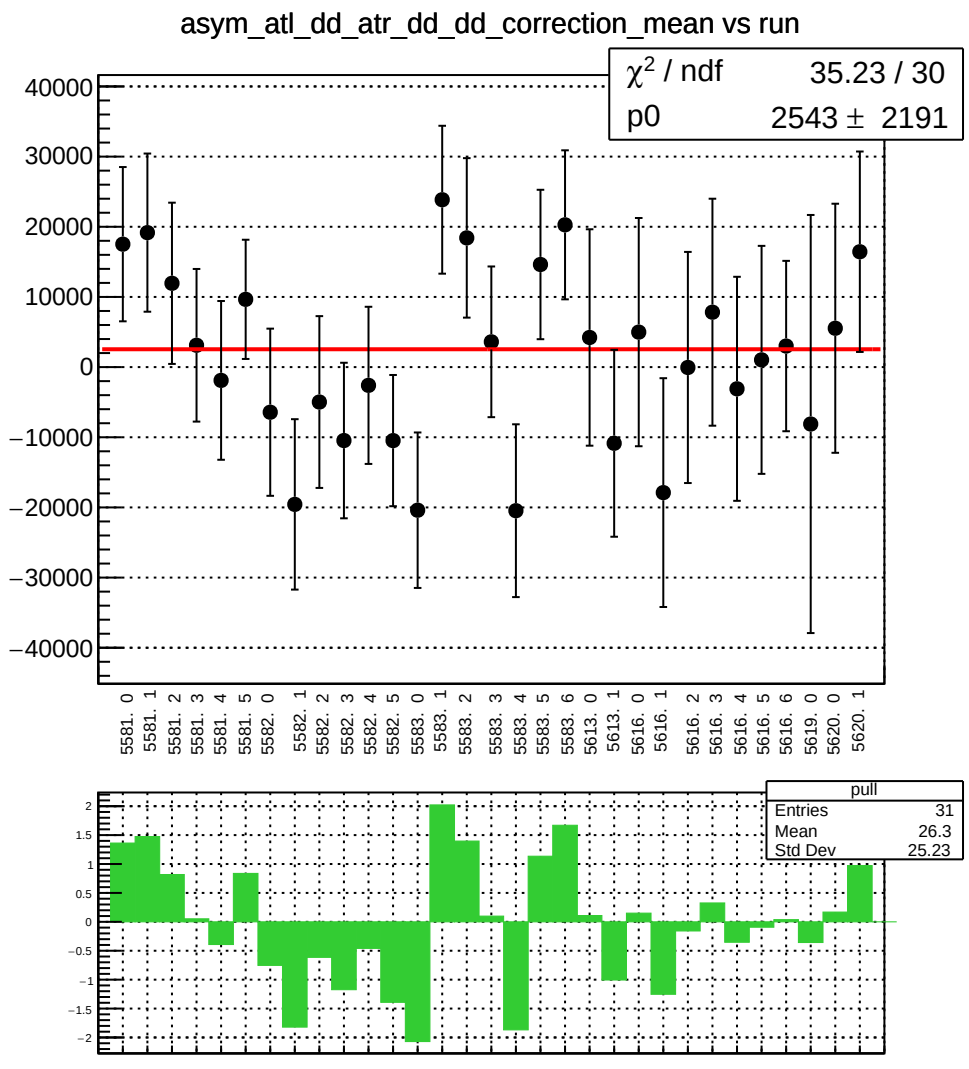

asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 25.94 / 19
p0 5954 ± 5529
80000
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 20
Mean 80.03
Std Dev 74.99
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.0202
Std Dev 1.139
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

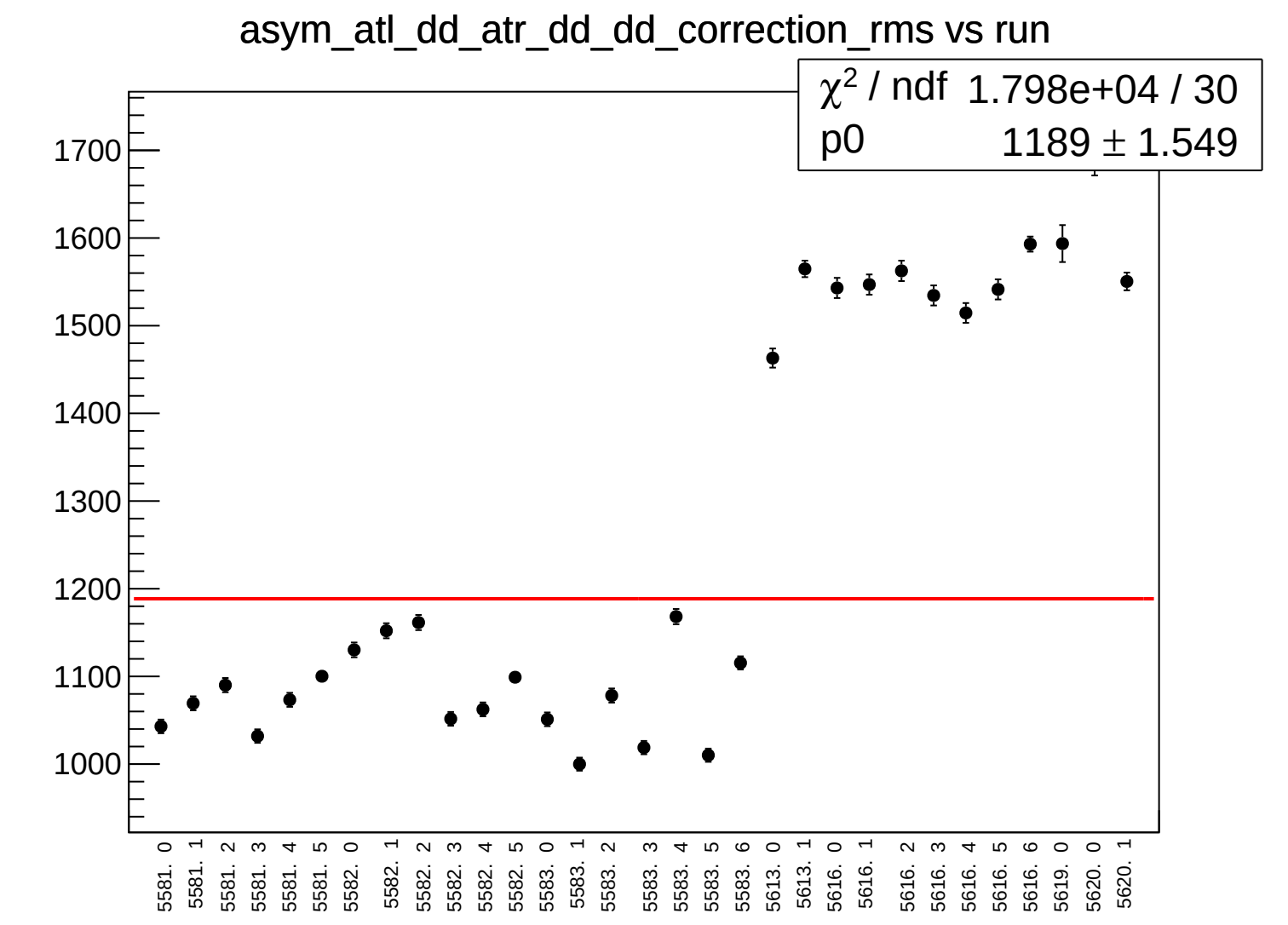

asym_atl_dd_atr_dd_avg_rms vs run
×10^3
χ^2 / ndf 1.814e+05 / 30
p0 2239 ± 3.434
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

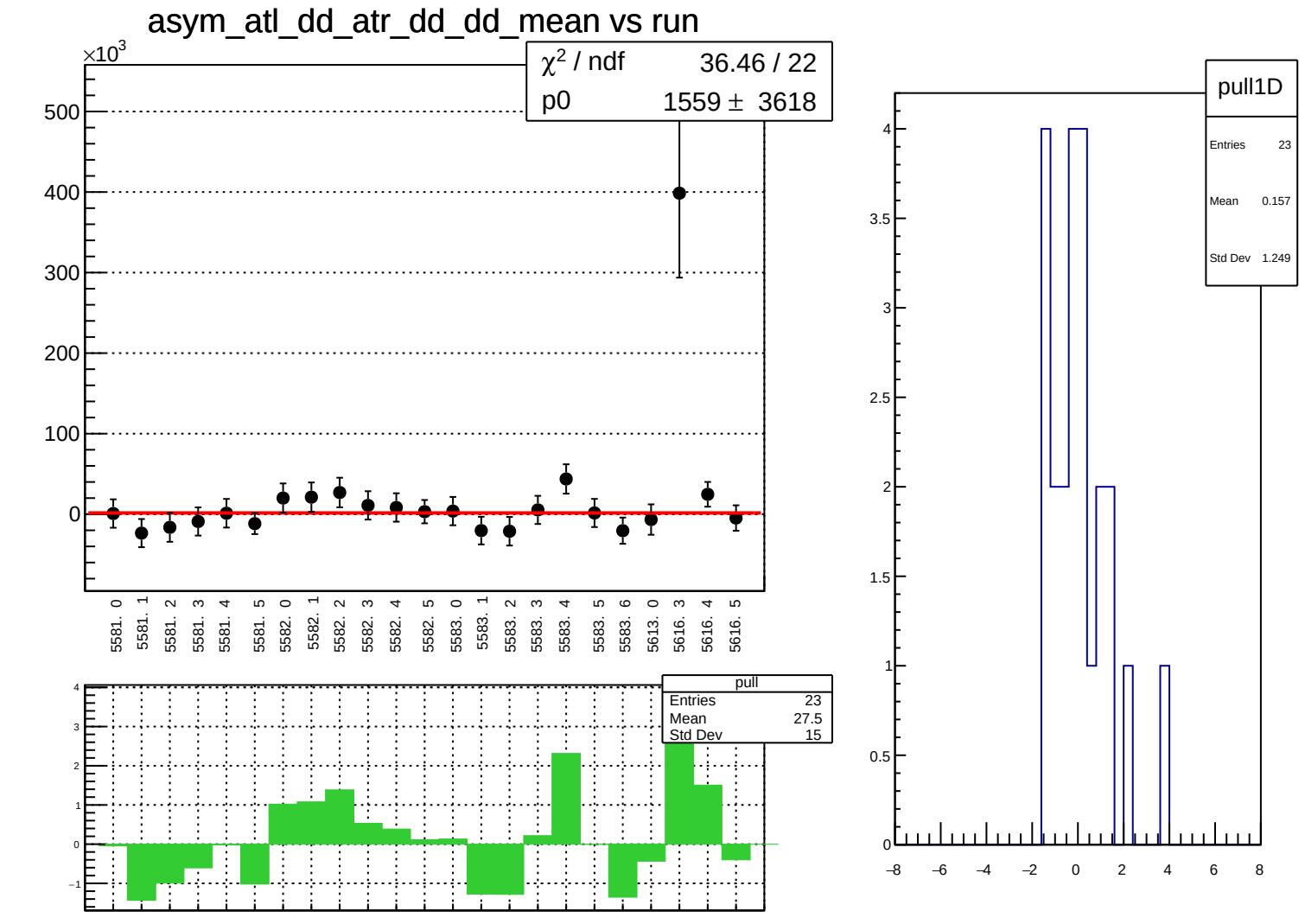

dit_asym_atl_dd_atr_dd_dd_mean vs run
×10^3
χ² / ndf 28.2 / 22
p0 3667 ± 2862
500
400
300
200
100
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5616. 3
5616. 4
5616. 5
pull
Entries 23
Mean 24.97
Std Dev 9.162
4
3
2
1
0
−1

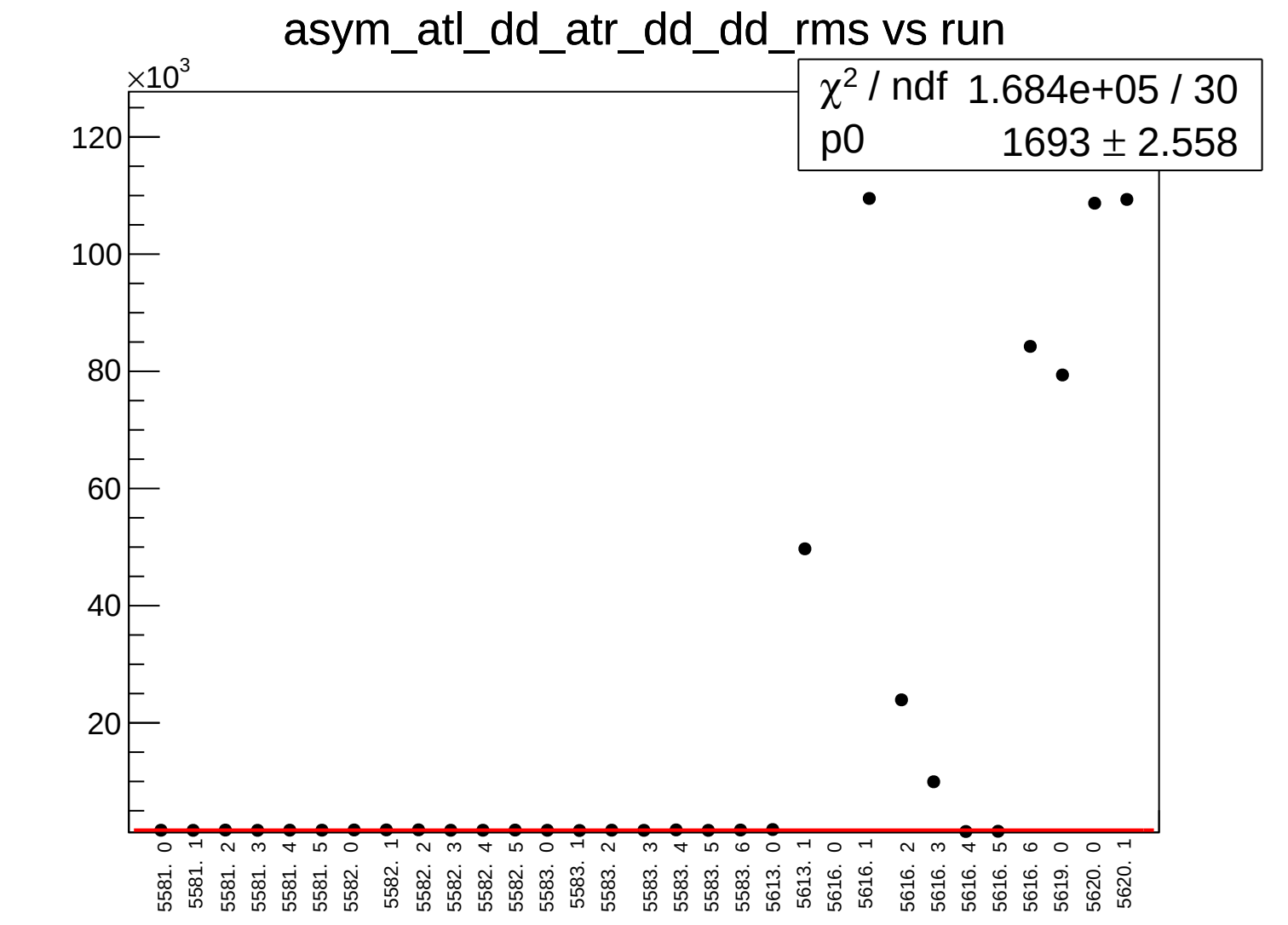

pull1D
Entries 23
Mean 0.1654
Std Dev 1.095
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

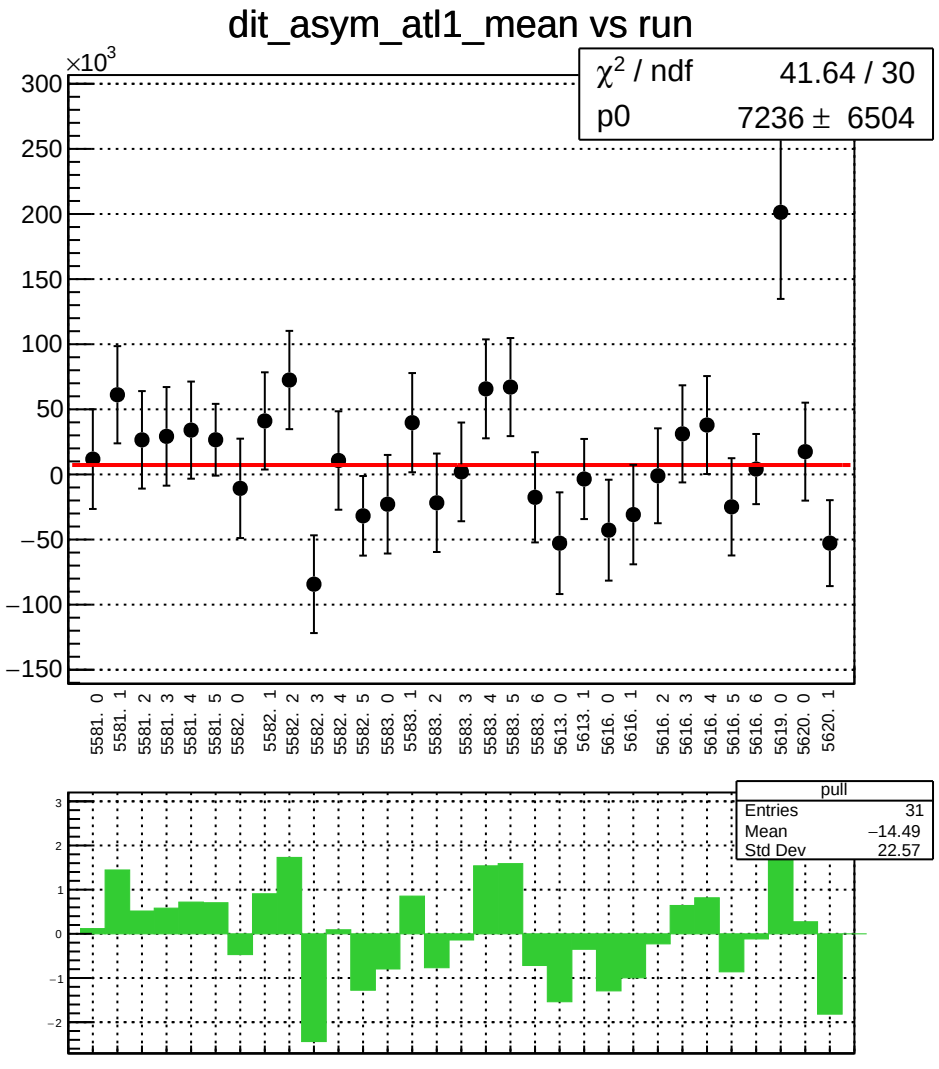

dit_asym_atl_dd_atr_dd_dd_rms vs run
×10^3
120
100
80
60
40
20
χ² / ndf 1.704e+05 / 30
p0 1337 ± 2.024
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

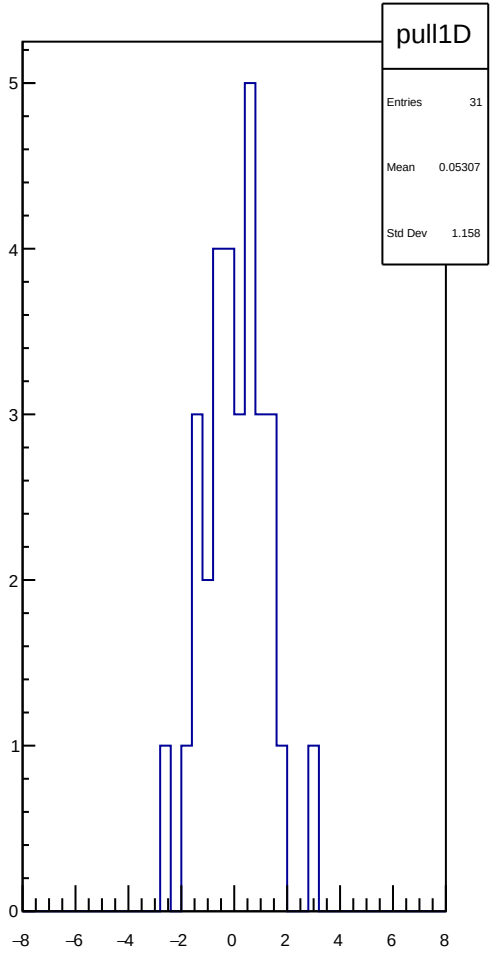

asym_atl_dd_atr_dd_dd_correction_mean vs run
χ² / ndf 35.23 / 30
p0 2543 ± 2191
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 26.3
Std Dev 25.23
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.03659
Std Dev 1.065
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

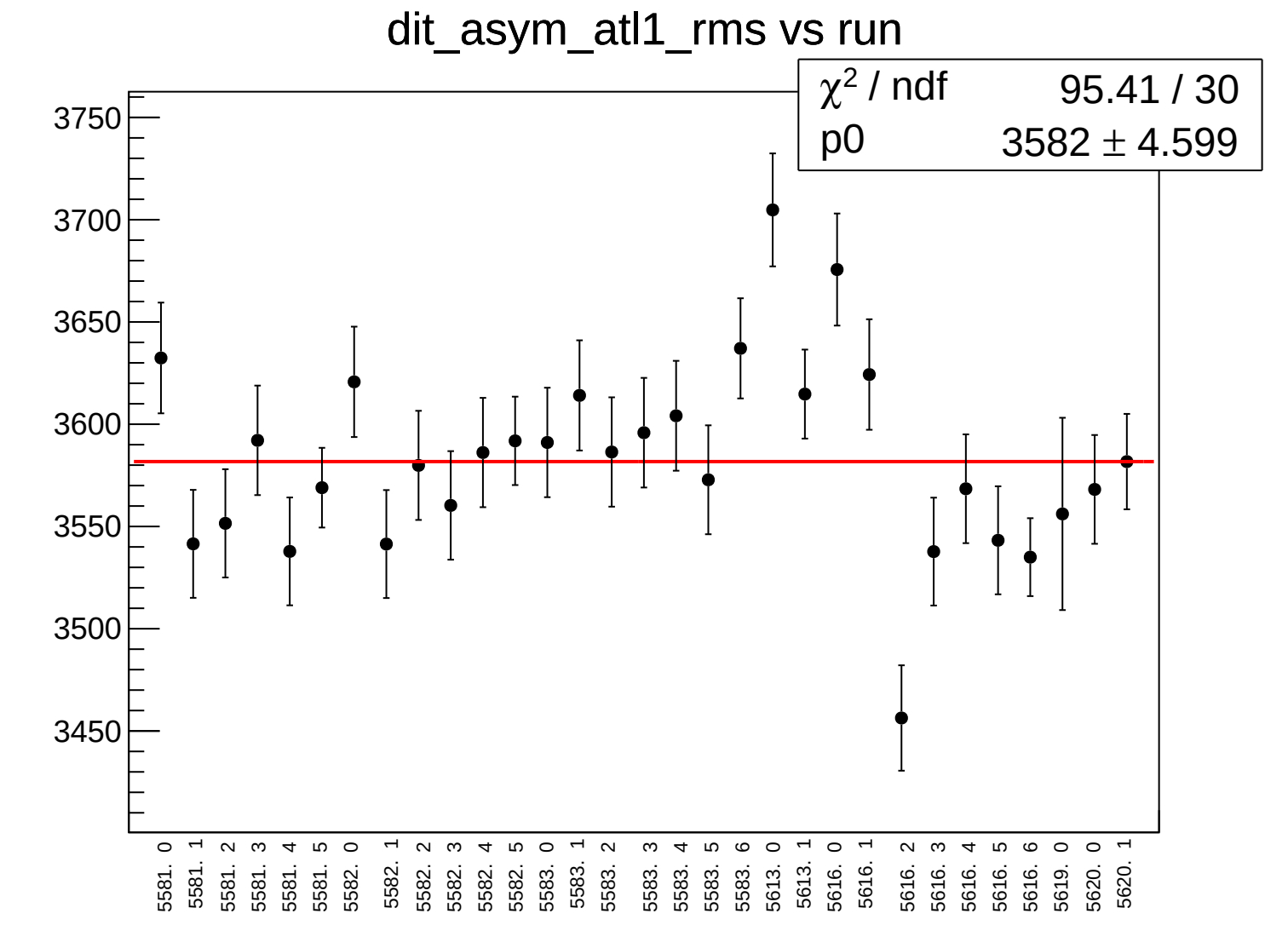

asym_atl_dd_atr_dd_dd_correction_rms vs run
χ² / ndf 1.798e+04 / 30
p0 1189 ± 1.549
1700
1600
1500
1400
1300
1200
1100
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

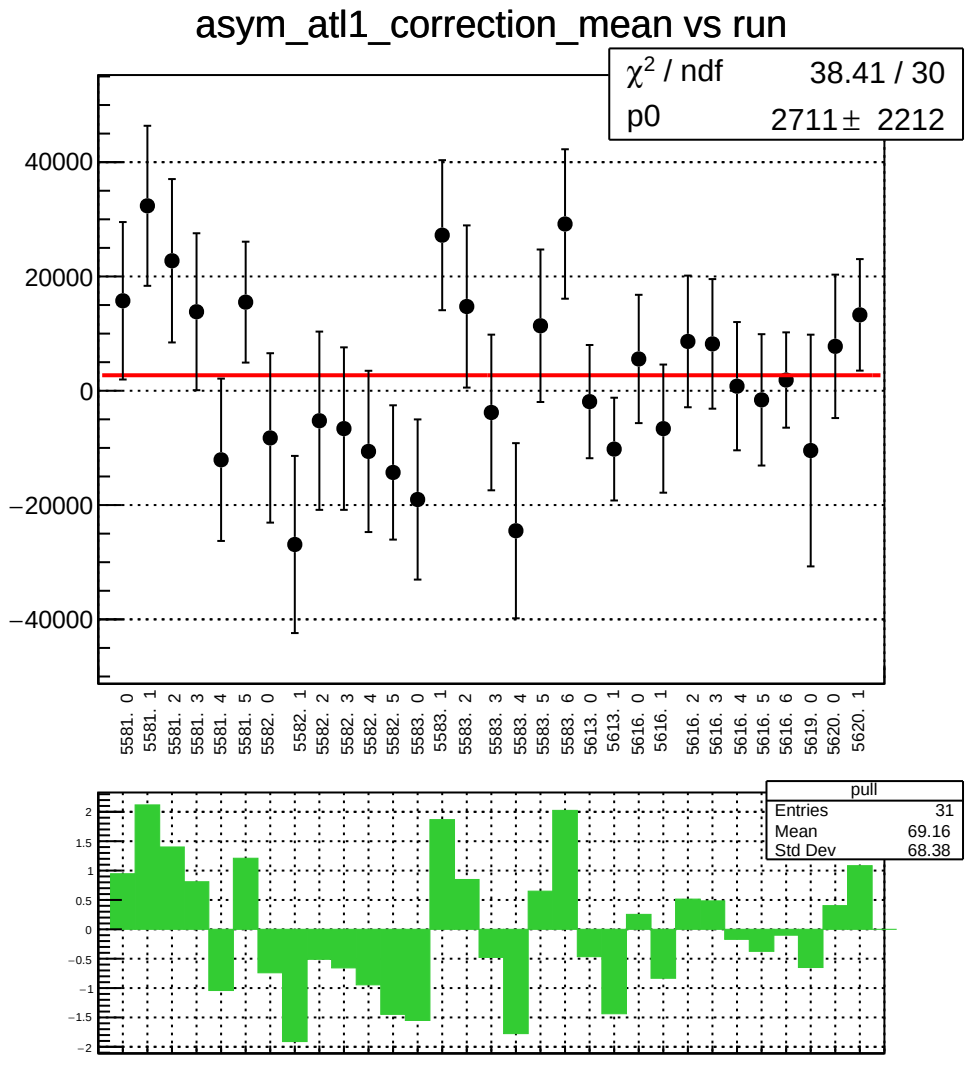

asym_atl_dd_atr_dd_dd_mean vs run
×10^3
χ^2 / ndf 36.46 / 22
p0 1559 ± 3618
500
400
300
200
100
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5616. 3
5616. 4
5616. 5
pull
Entries 23
Mean 27.5
Std Dev 15
pull1D
Entries 23
Mean 0.157
Std Dev 1.249

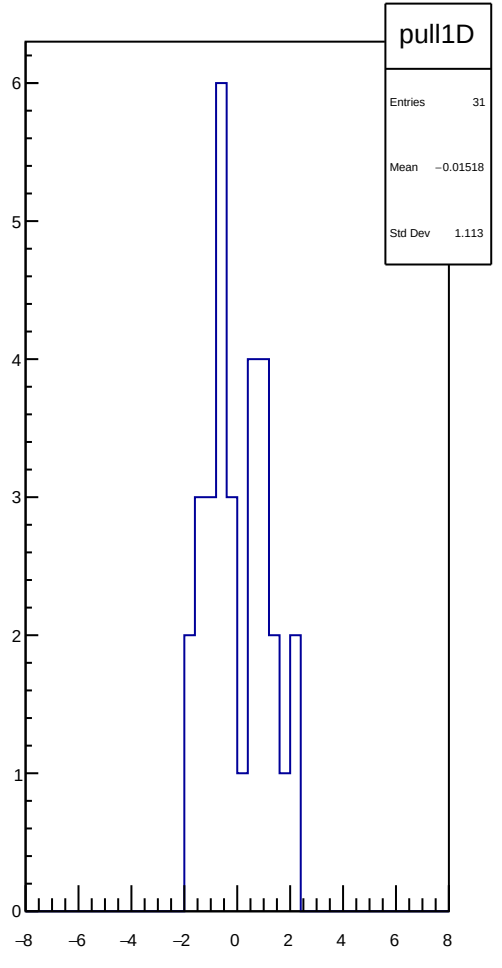

asym_atl_dd_atr_dd_dd_rms vs run
×10^3
120
100
80
60
40
20
χ² / ndf 1.684e+05 / 30
p0 1693 ± 2.558
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

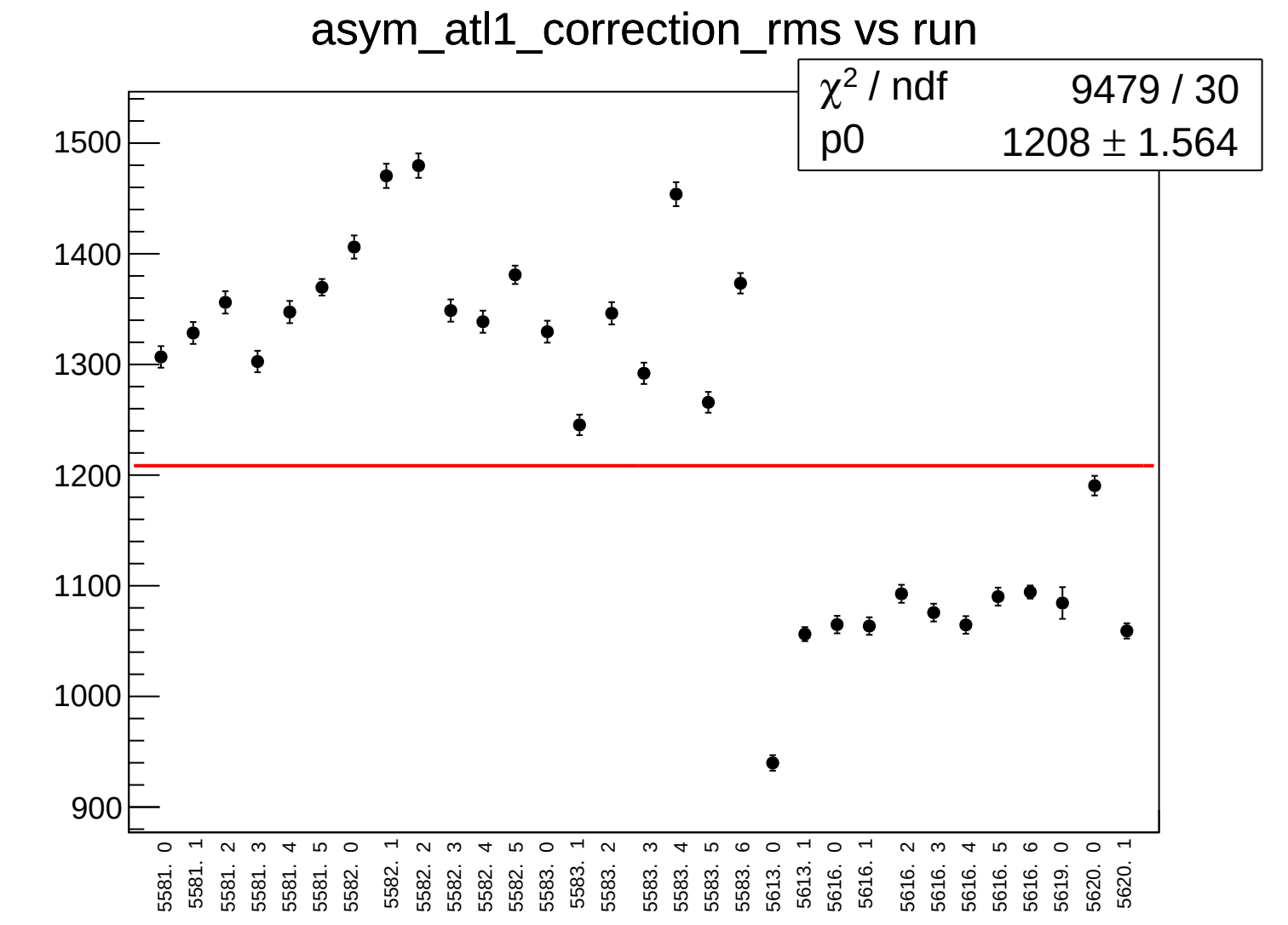

dit_asym_atl1_mean vs run
×10^3
χ² / ndf 41.64 / 30
p0 7236 ± 6504
300
250
200
150
100
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −14.49
Std Dev 22.57
3
2
1
0
−1
−2

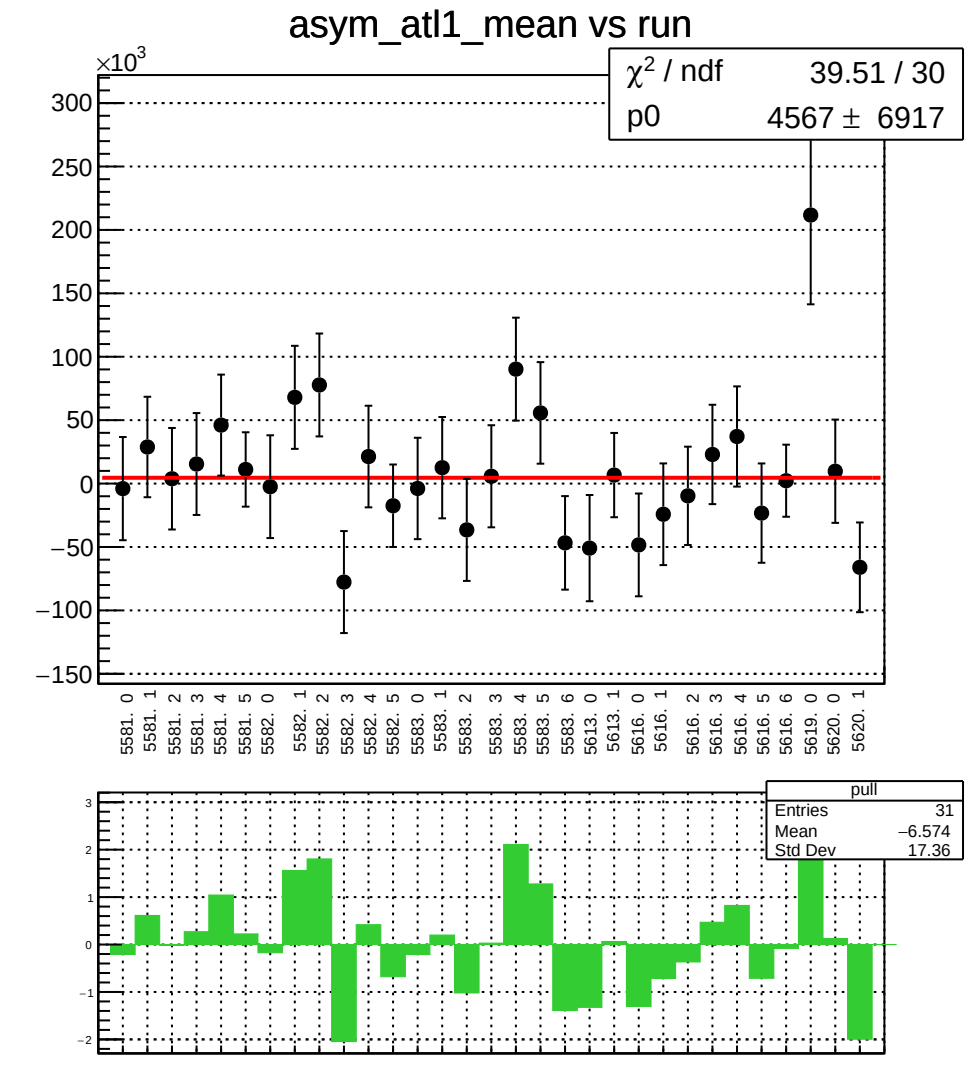

pull1D
Entries 31
Mean 0.05307
Std Dev 1.158
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

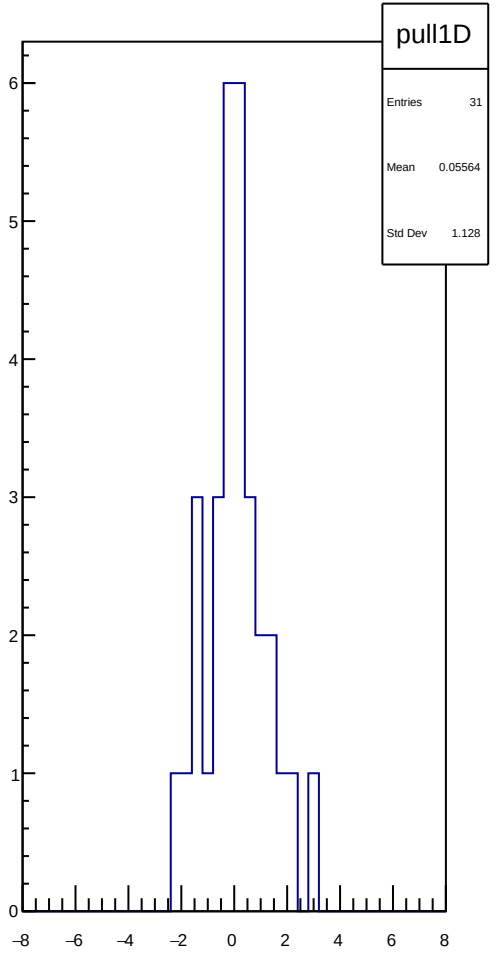

dit_asym_atl1_rms vs run
χ² / ndf 95.41 / 30
p0 3582 ± 4.599
3750
3700
3650
3600
3550
3500
3450
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

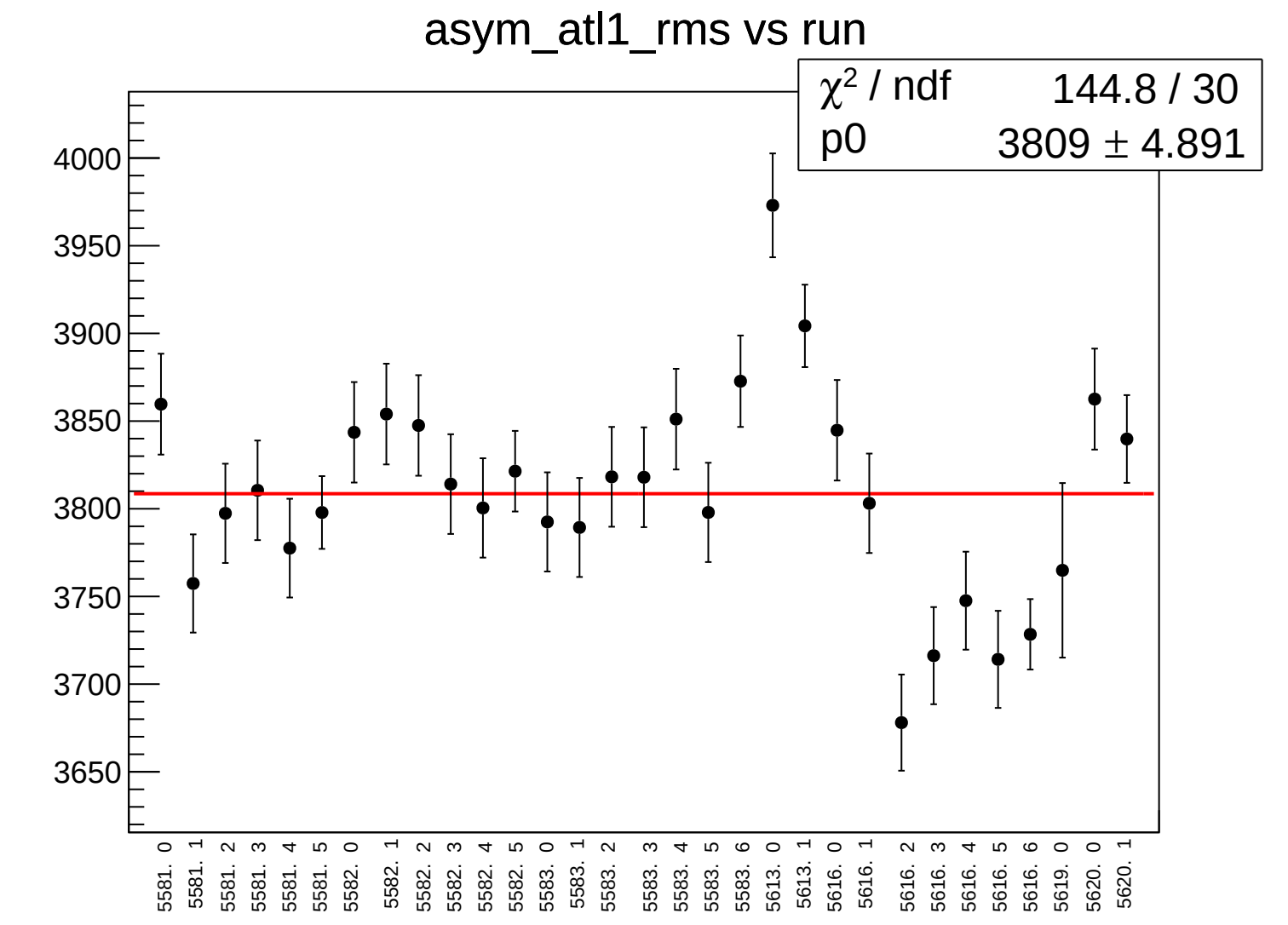

asym_atl1_correction_mean vs run
χ² / ndf 38.41 / 30
p0 2711 ± 2212
40000
20000
0
−20000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 69.16
Std Dev 68.38
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

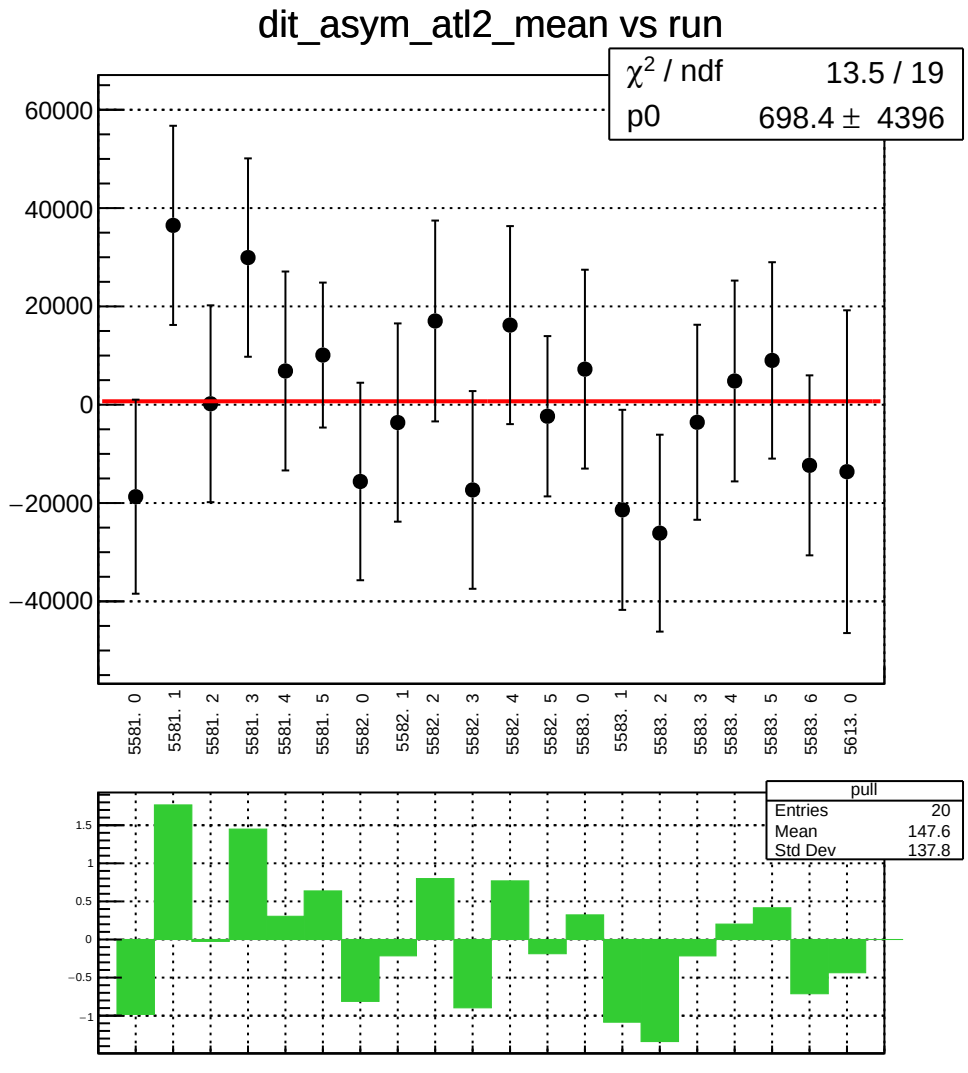

pull1D
Entries 31
Mean −0.01518
Std Dev 1.113
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

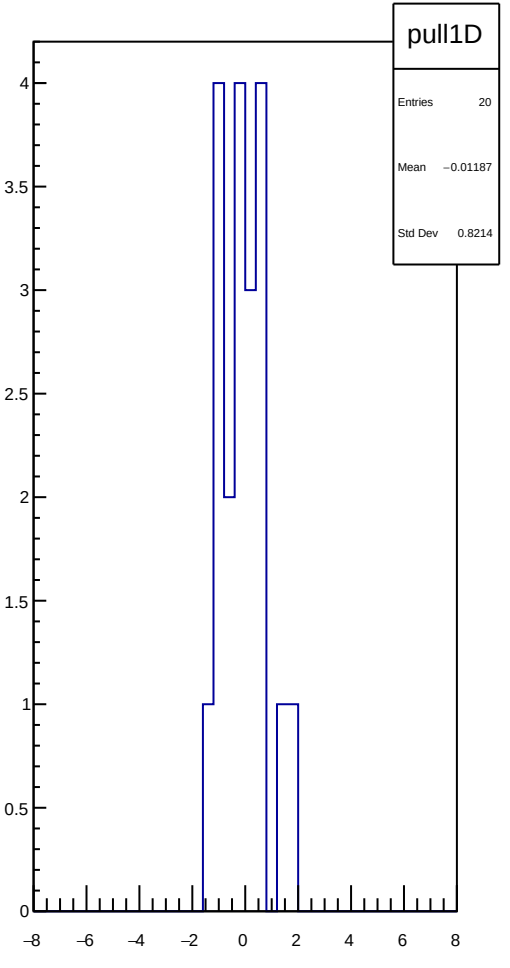

asym_atl1_correction_rms vs run
χ² / ndf 9479 / 30
p0 1208 ± 1.564
1500
1400
1300
1200
1100
1000
900
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

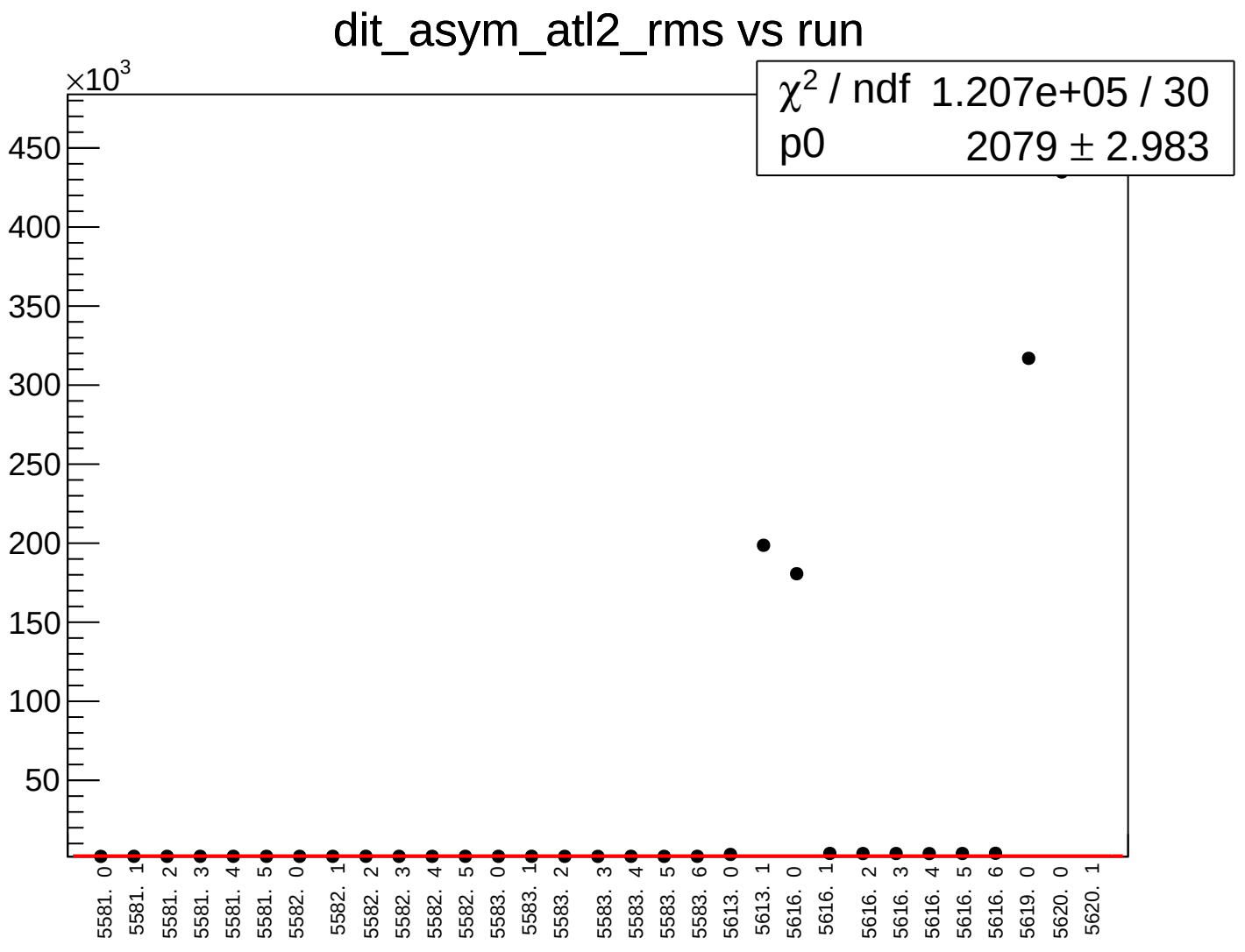

asym_atl1_mean vs run
×10^3
χ^2 / ndf 39.51 / 30
p0 4567 ± 6917
300
250
200
150
100
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −6.574
Std Dev 17.36
3
2
1
0
−1
−2

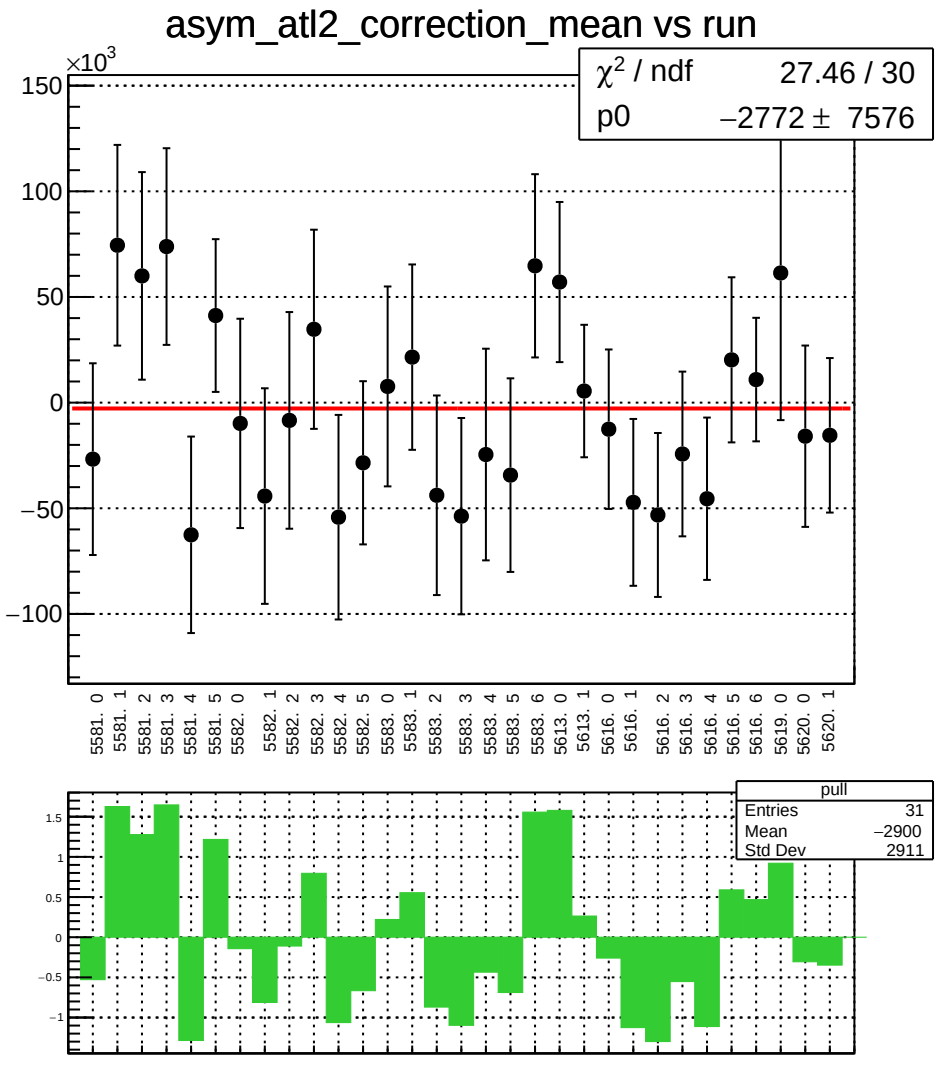

pull1D
Entries 31
Mean 0.05564
Std Dev 1.128
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

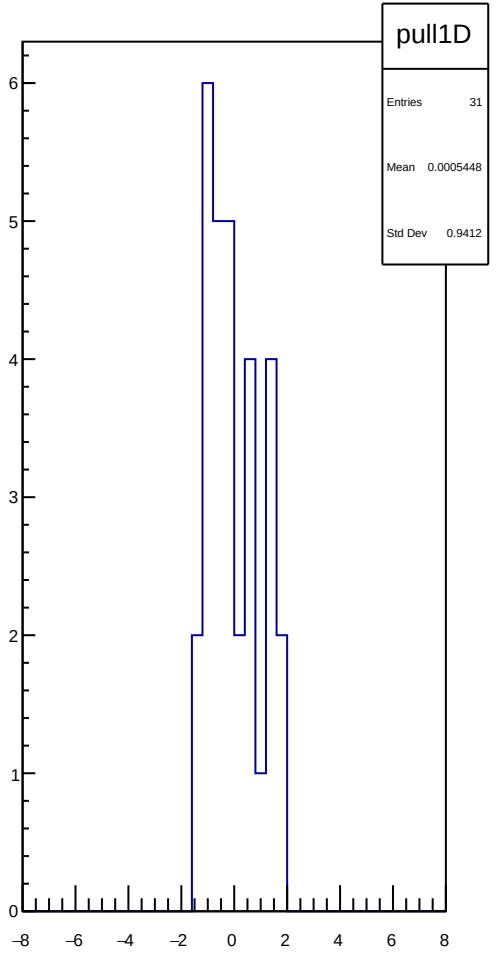

asym_atl1_rms vs run
χ² / ndf 144.8 / 30
p0 3809 ± 4.891
4000
3950
3900
3850
3800
3750
3700
3650
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

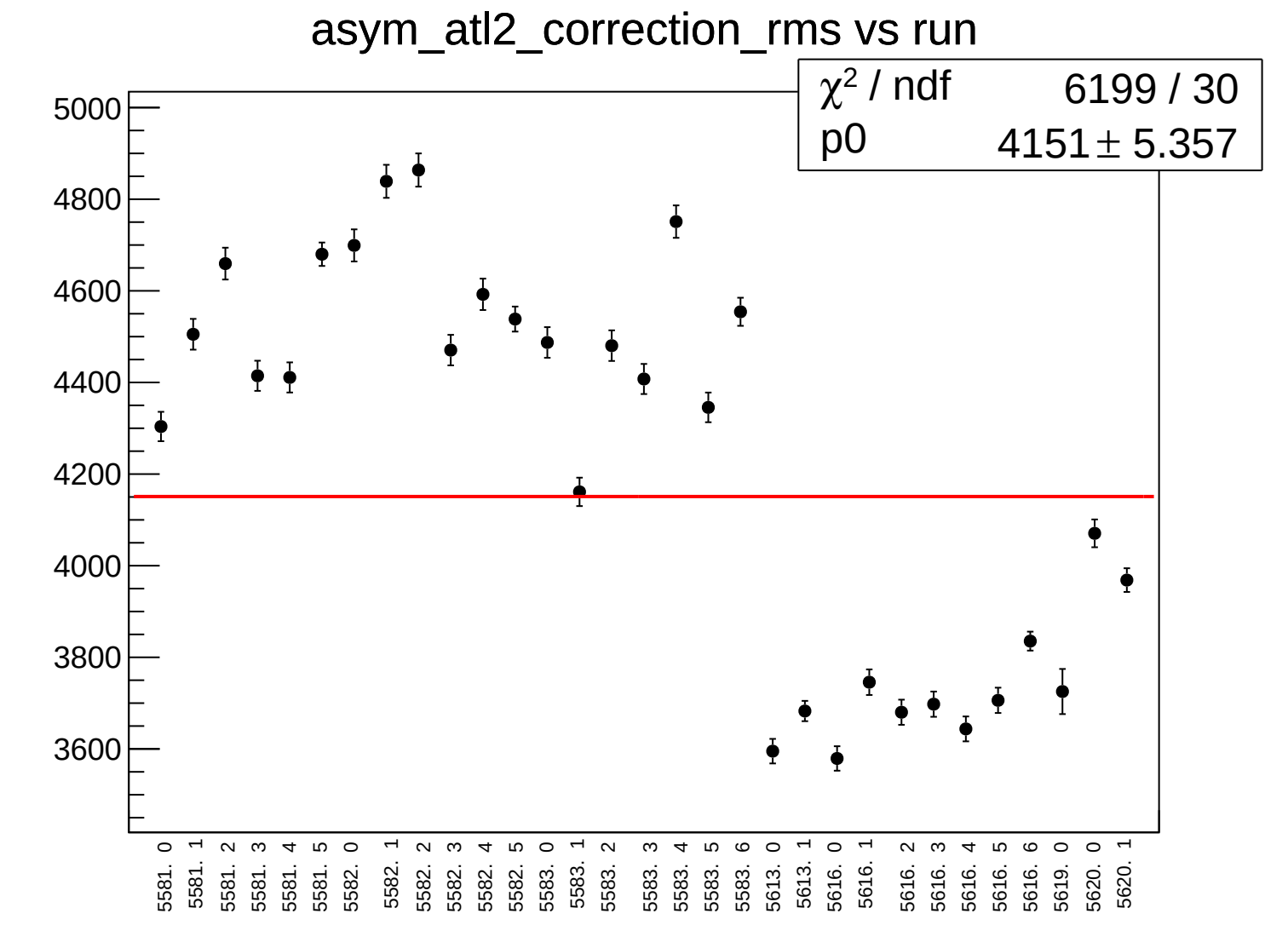

dit_asym_atl2_mean vs run
χ² / ndf 13.5 / 19
p0 698.4 ± 4396
60000
40000
20000
0
−20000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 20
Mean 147.6
Std Dev 137.8
1.5
1
0.5
0
−0.5
−1

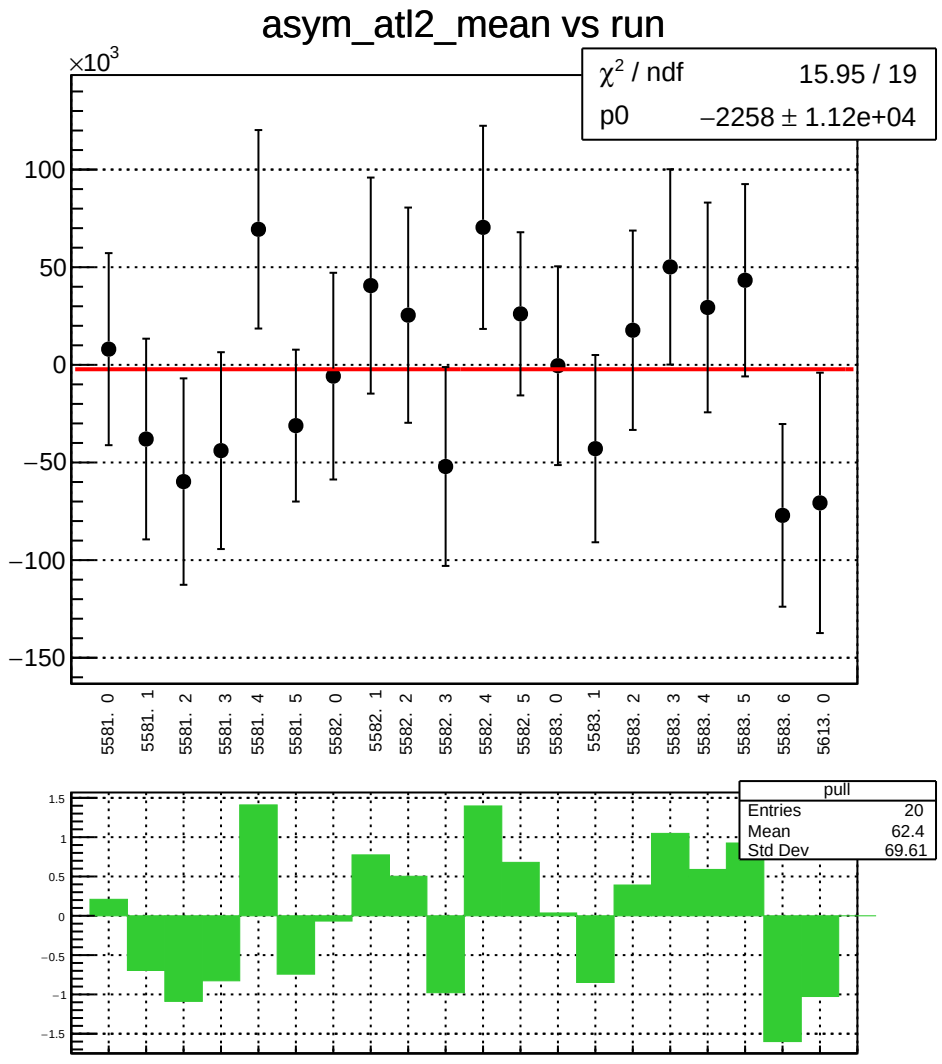

pull1D
Entries 20
Mean −0.01187
Std Dev 0.8214
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

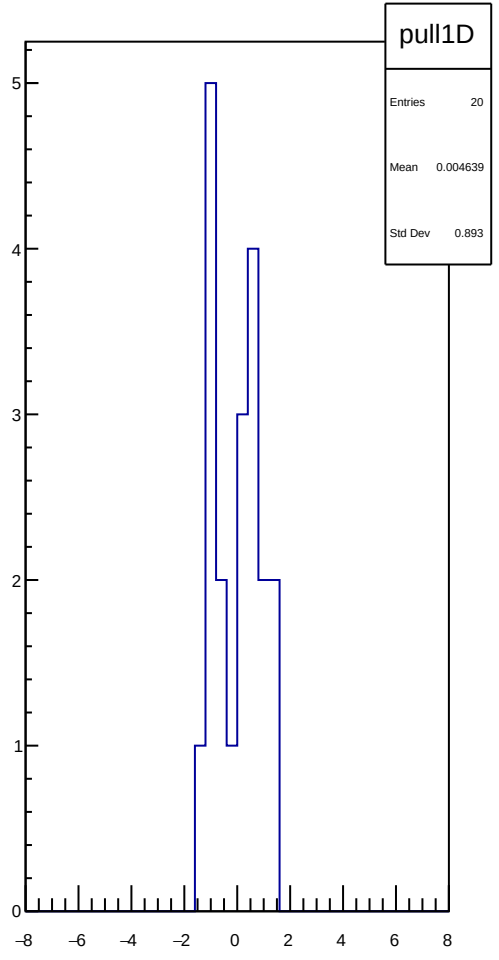

dit_asym_atl2_rms vs run
×10^3
χ^2 / ndf 1.207e+05 / 30
p0 2079 ± 2.983
450
400
350
300
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

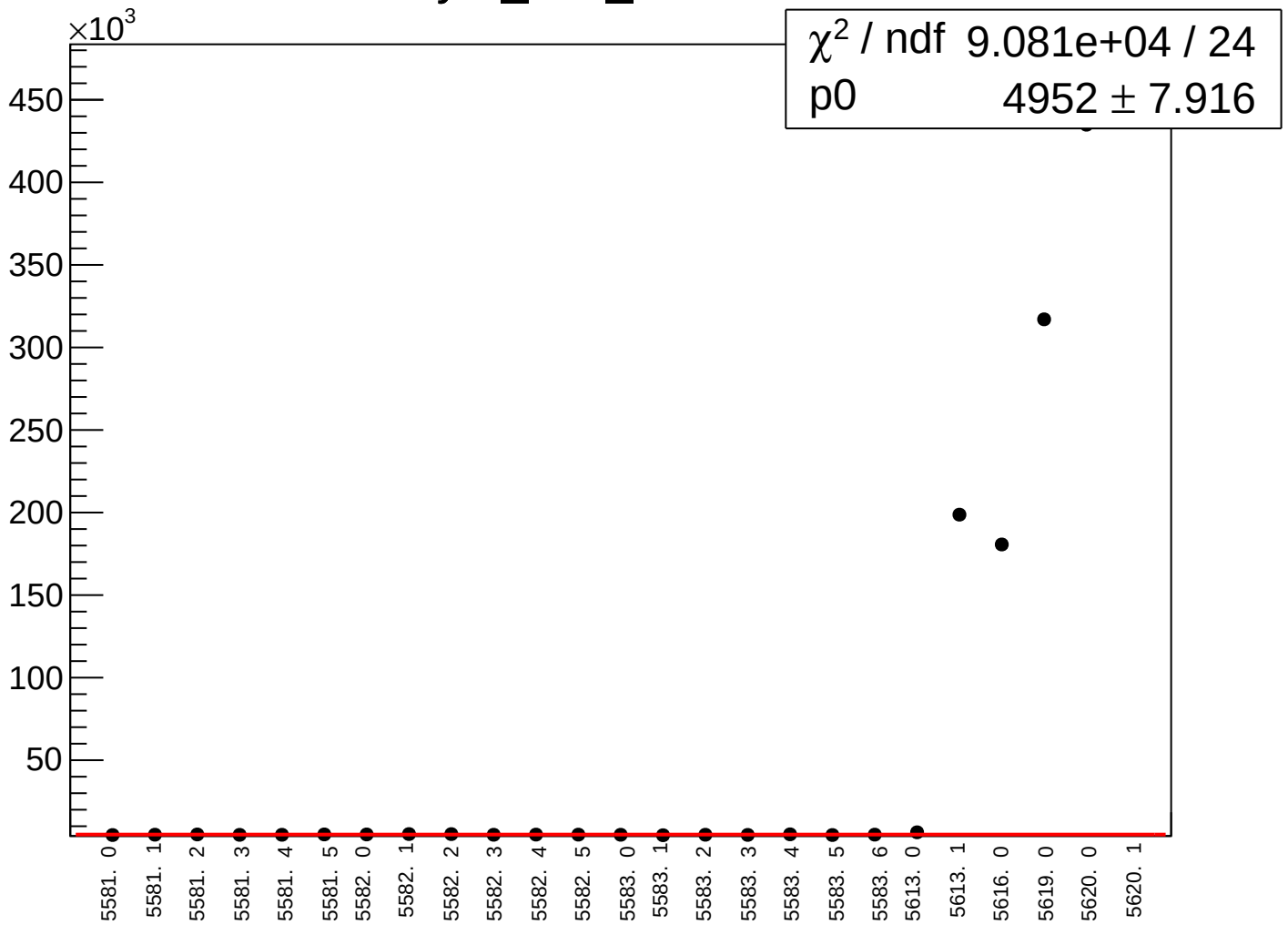

asym_atl2_correction_mean vs run
×10^3
χ^2 / ndf 27.46 / 30
p0 −2772 ± 7576
150
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −2900
Std Dev 2911
1.5
1
0.5
0
−0.5
−1

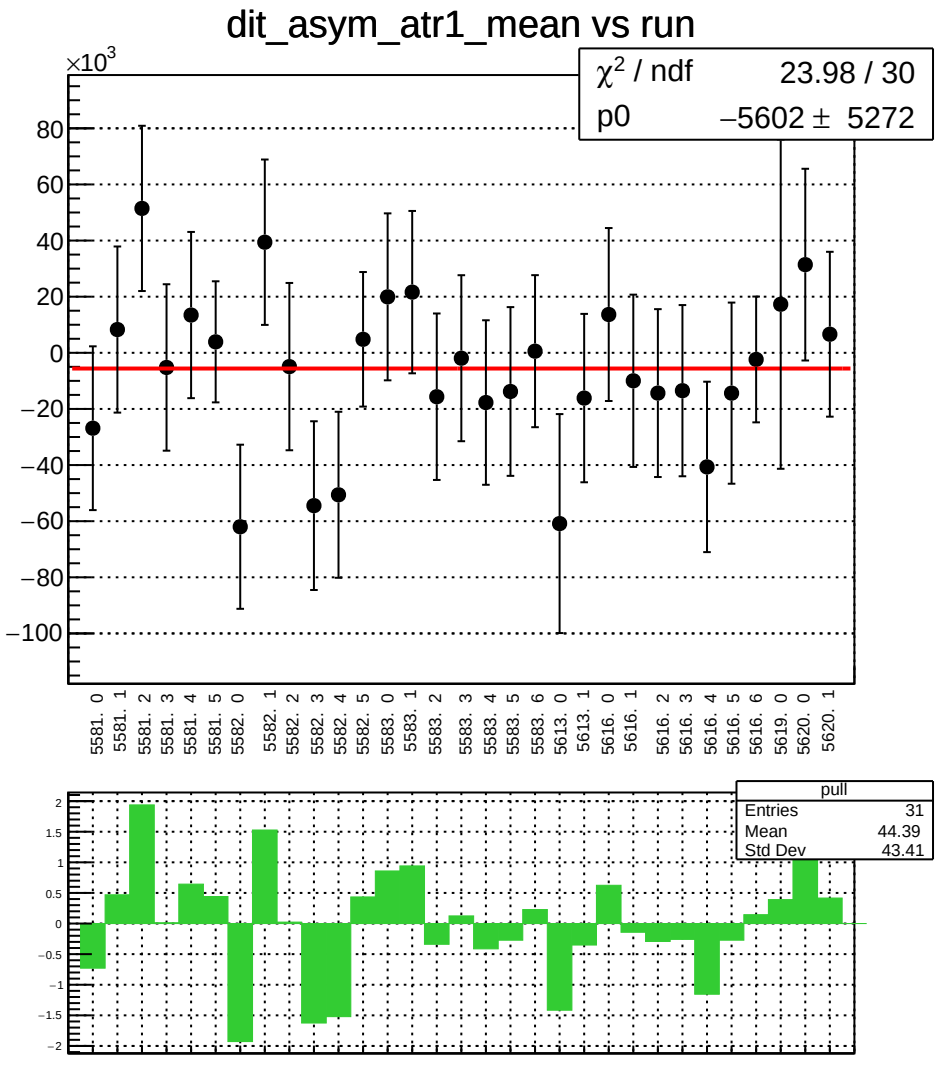

pull1D
Entries 31
Mean 0.0005448
Std Dev 0.9412
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

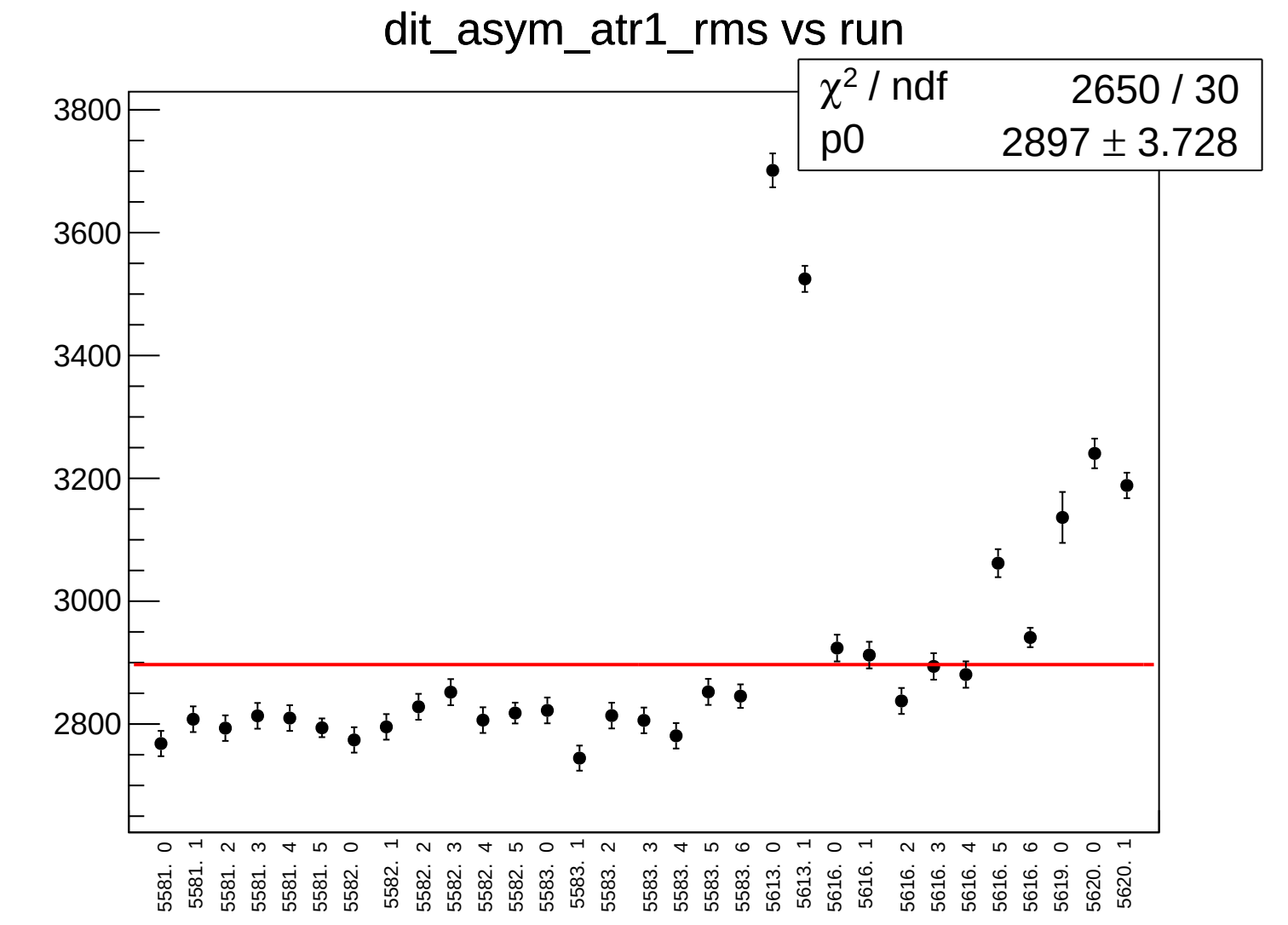

asym_atl2_correction_rms vs run
χ² / ndf 6199 / 30
p0 4151 ± 5.357
5000
4800
4600
4400
4200
4000
3800
3600
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

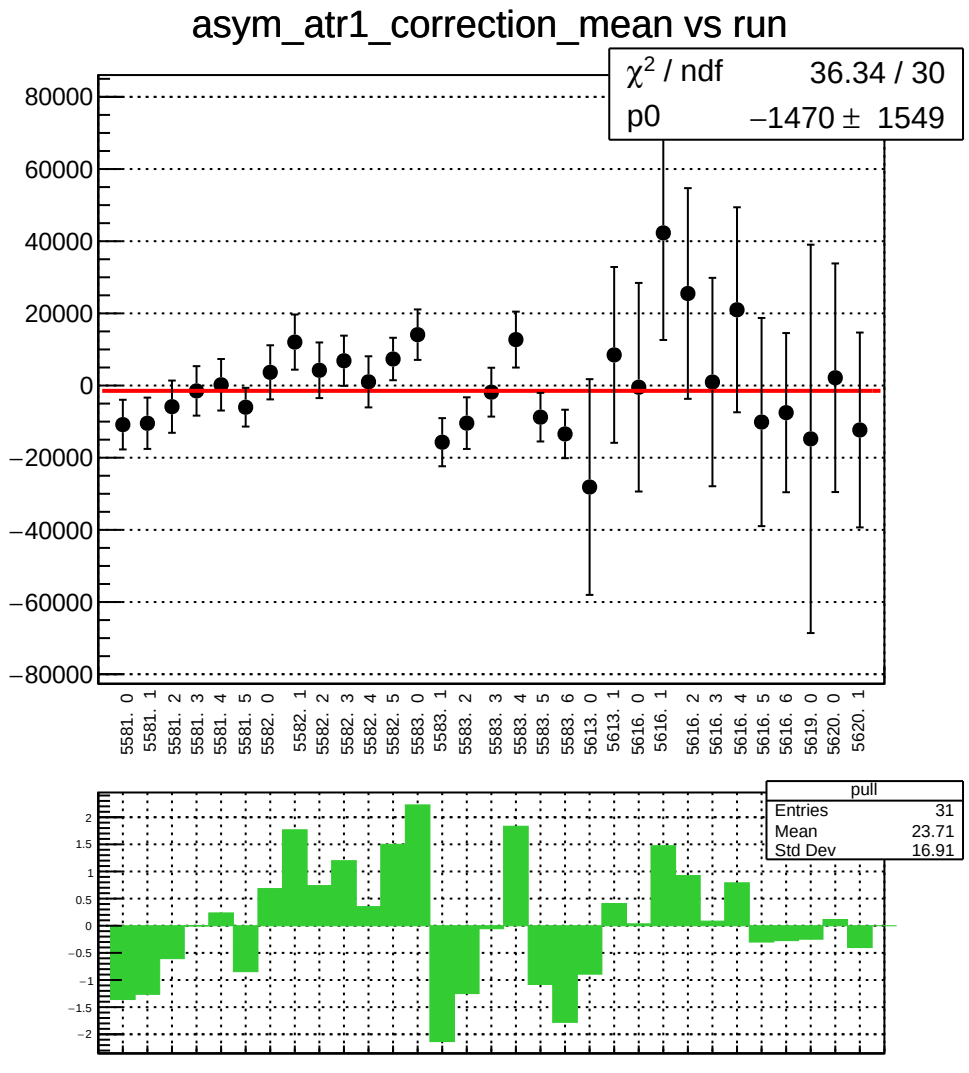

asym_atl2_mean vs run
×10^3
χ² / ndf 15.95 / 19
p0 −2258 ± 1.12e+04
100
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 20
Mean 62.4
Std Dev 69.61
1.5
1
0.5
0
−0.5
−1
−1.5

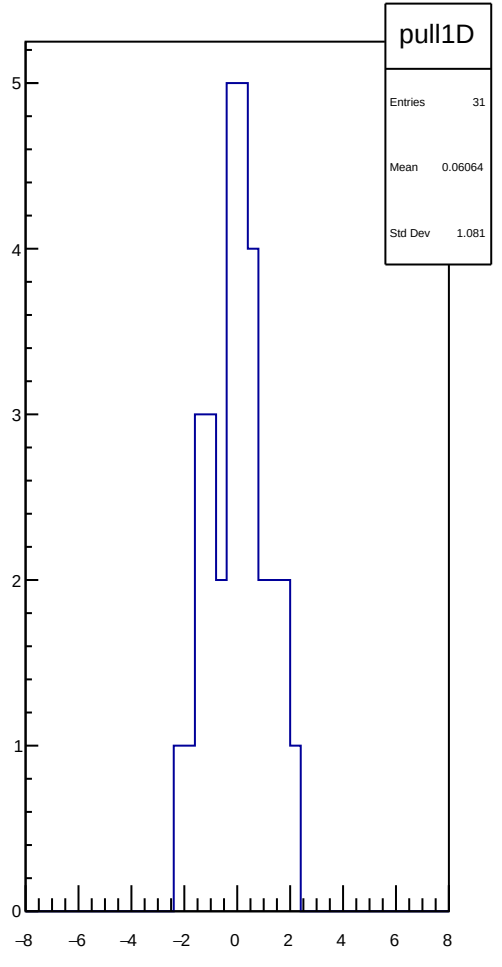

pull1D
Entries 20
Mean 0.004639
Std Dev 0.893
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

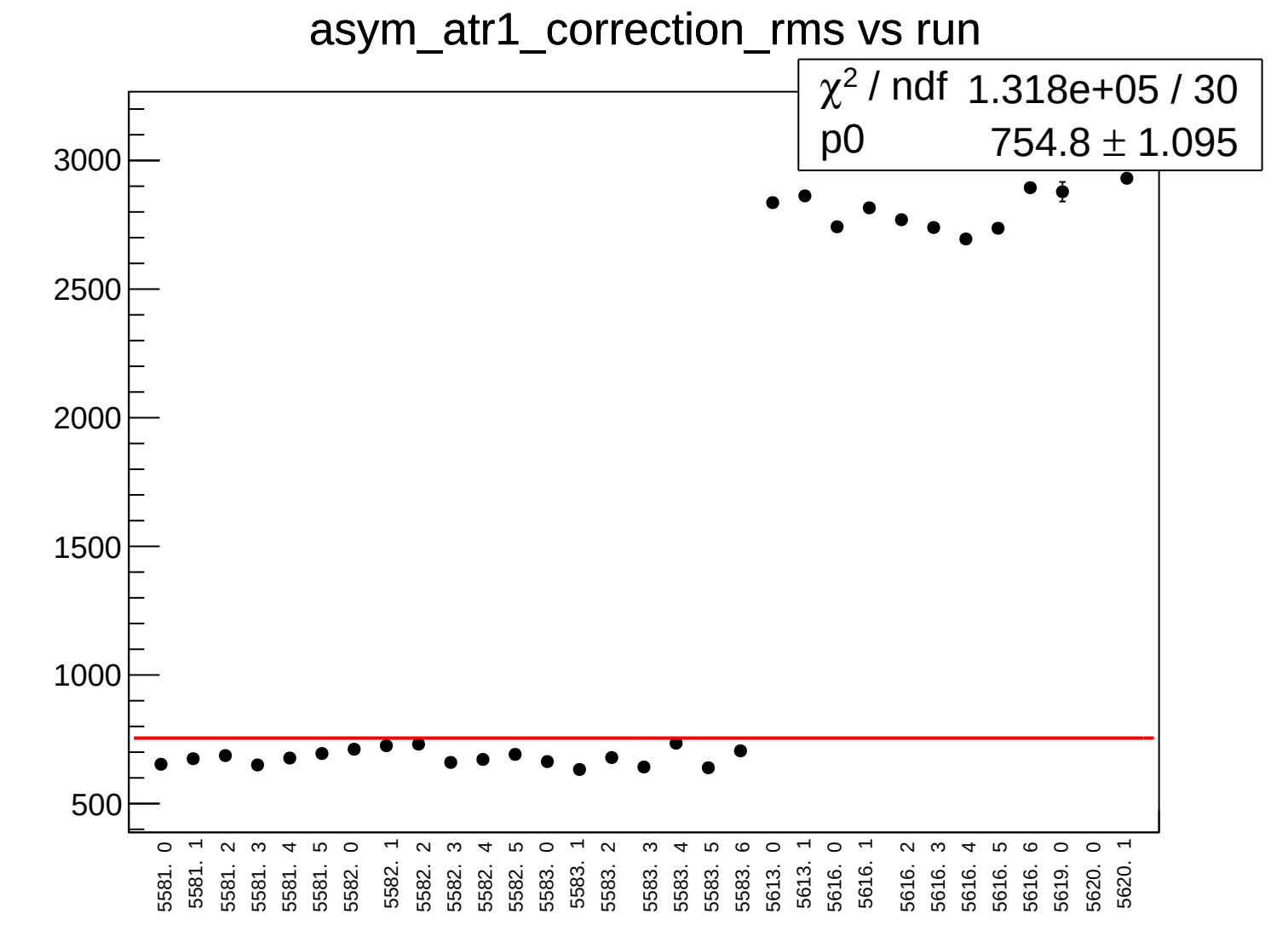

asym_atl2_rms vs run
×10^3
χ^2 / ndf 9.081e+04 / 24
p0 4952 ± 7.916
450
400
350
300
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5619. 0
5620. 0
5620. 1

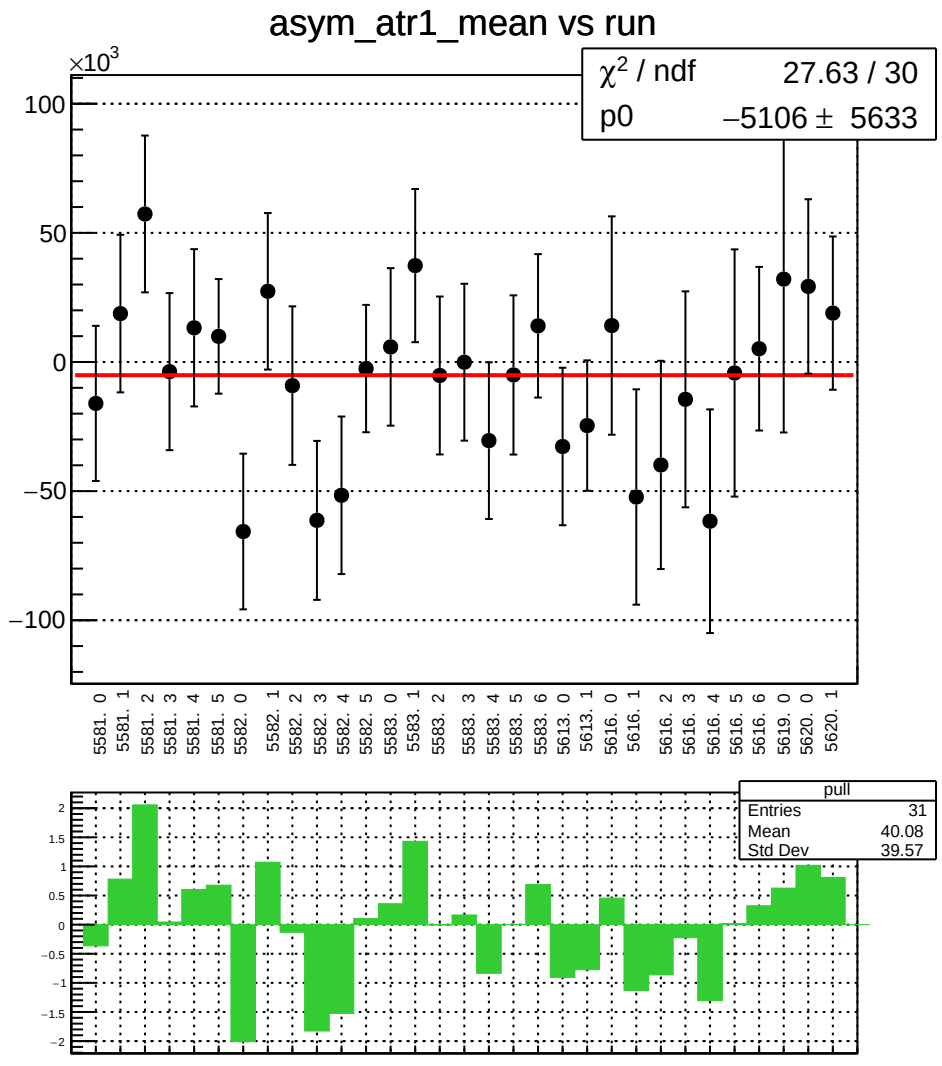

dit_asym_atr1_mean vs run
×10^3
χ² / ndf 23.98 / 30
p0 −5602 ± 5272
80
60
40
20
0
−20
−40
−60
−80
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 44.39
Std Dev 43.41
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.01331
Std Dev 0.8794
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

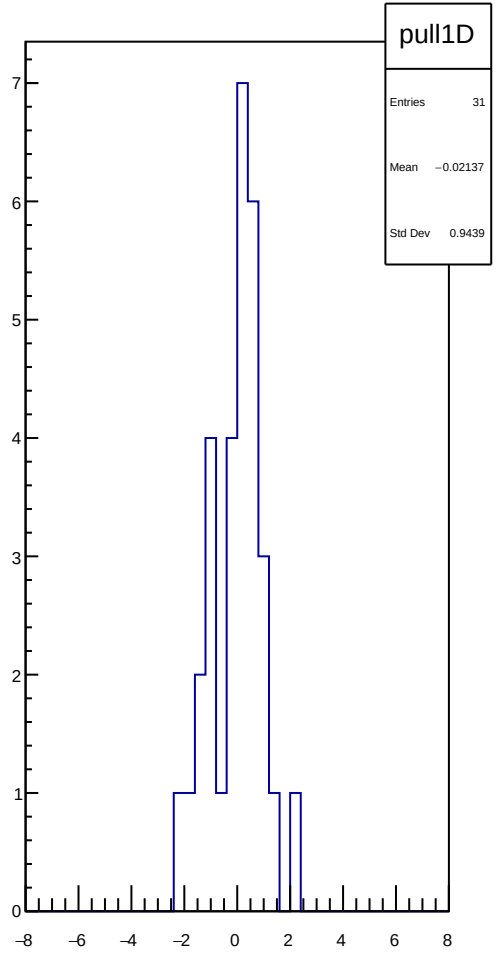

dit_asym_atr1_rms vs run
χ² / ndf 2650 / 30
p0 2897 ± 3.728
3800
3600
3400
3200
3000
2800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

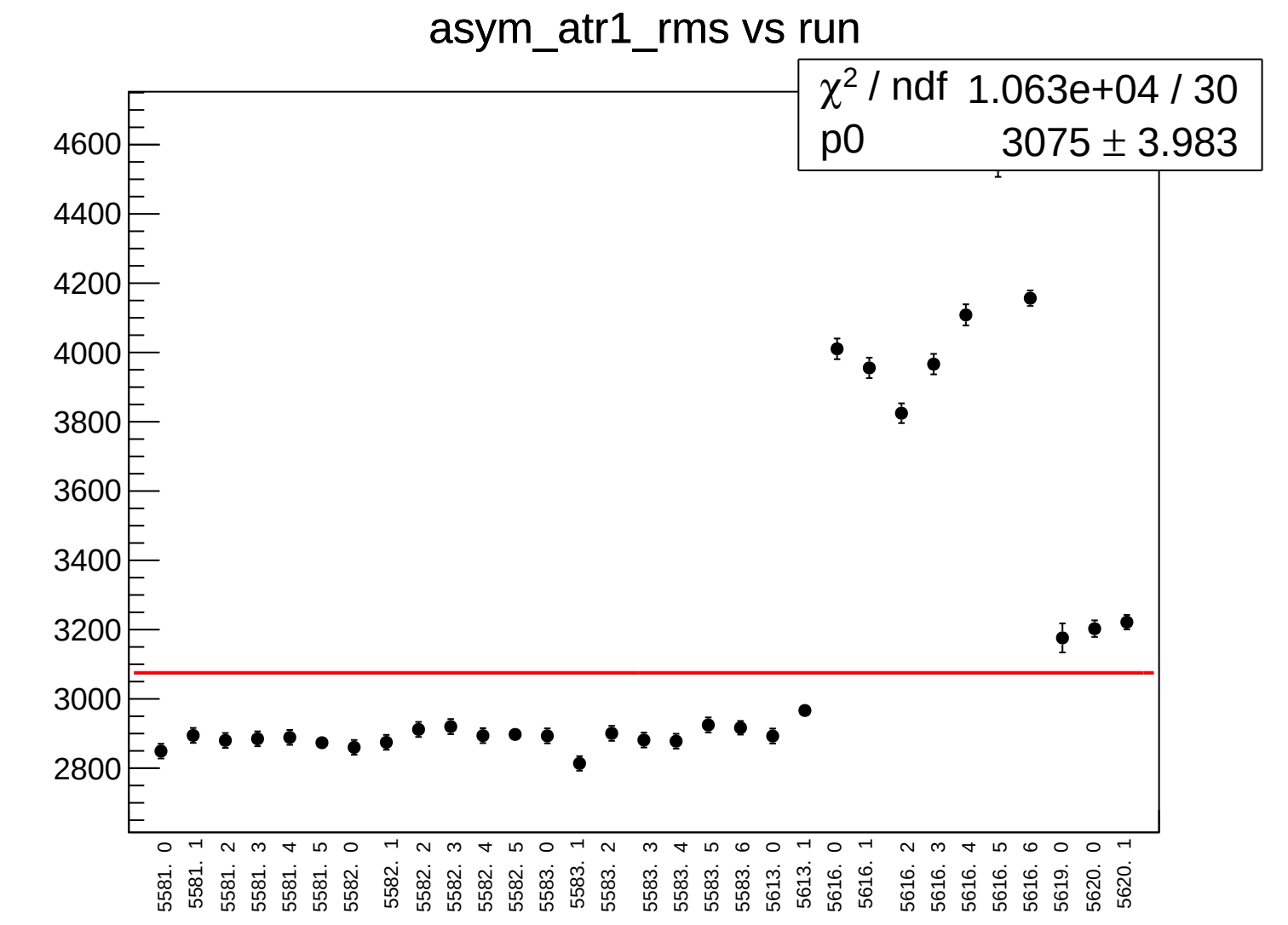

asym_atr1_correction_mean vs run
χ² / ndf 36.34 / 30
p0 −1470 ± 1549
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 23.71
Std Dev 16.91
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

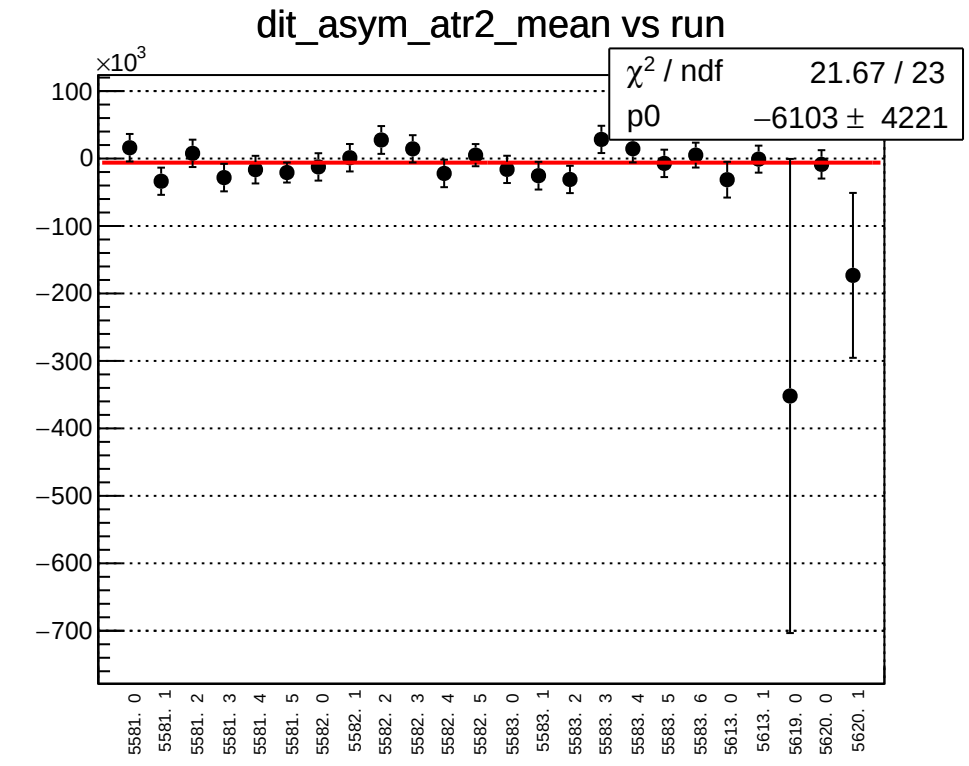

pull1D
Entries 31
Mean 0.06064
Std Dev 1.081
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

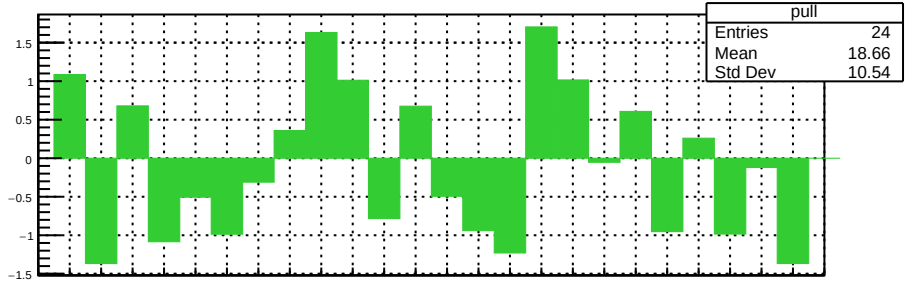

asym_atr1_correction_rms vs run
χ² / ndf 1.318e+05 / 30
p0 754.8 ± 1.095
3000
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

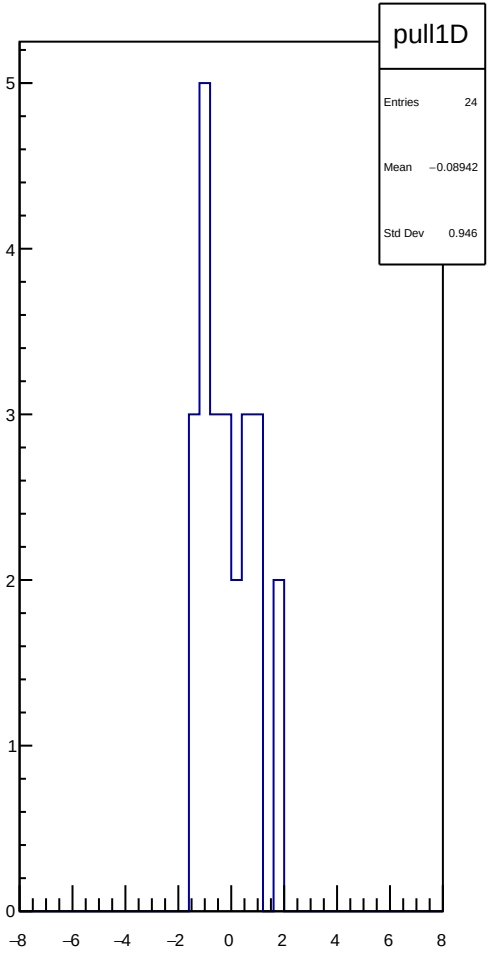

asym_atr1_mean vs run
×10^3
χ² / ndf 27.63 / 30
p0 −5106 ± 5633
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 40.08
Std Dev 39.57
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

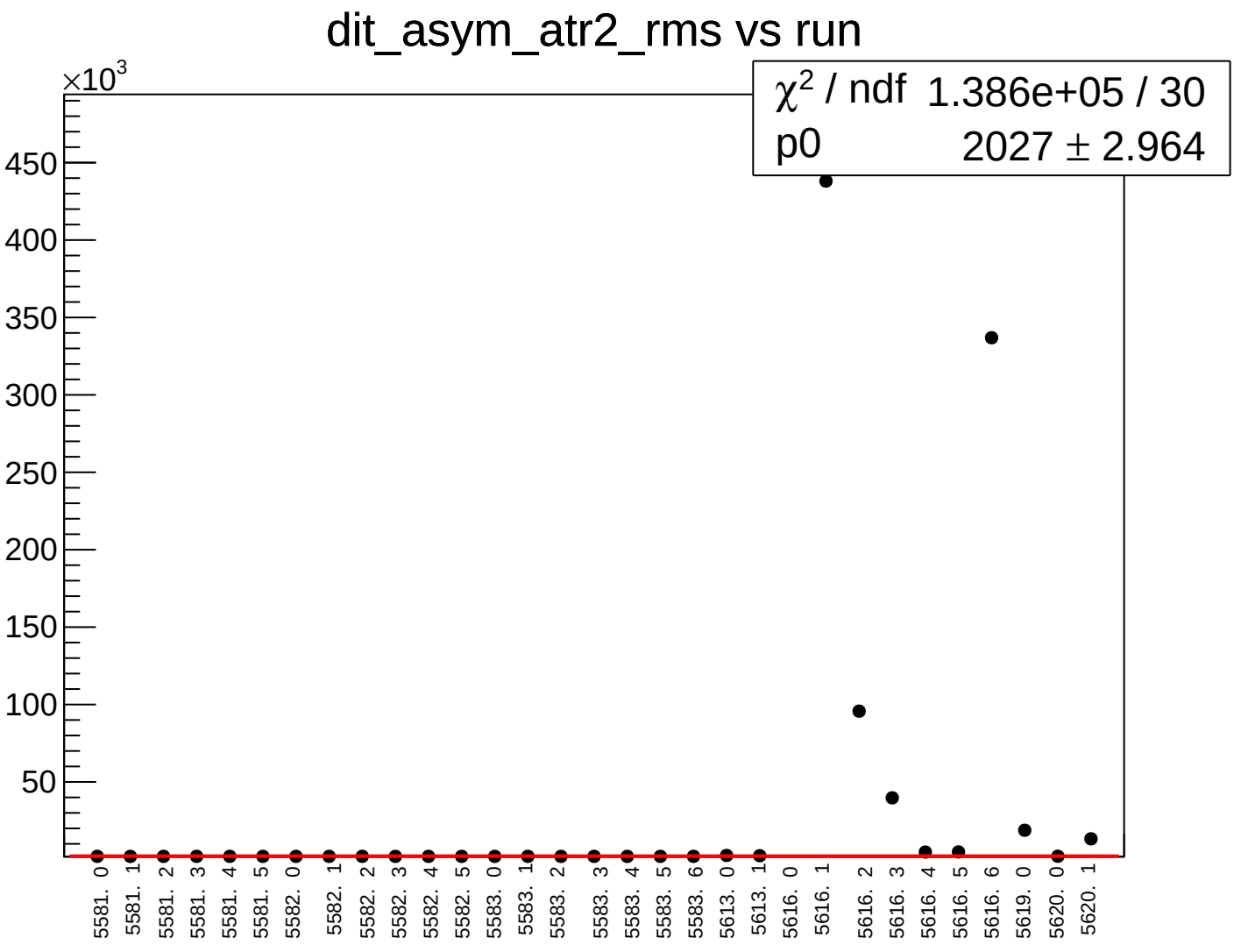

pull1D
Entries 31
Mean −0.02137
Std Dev 0.9439
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

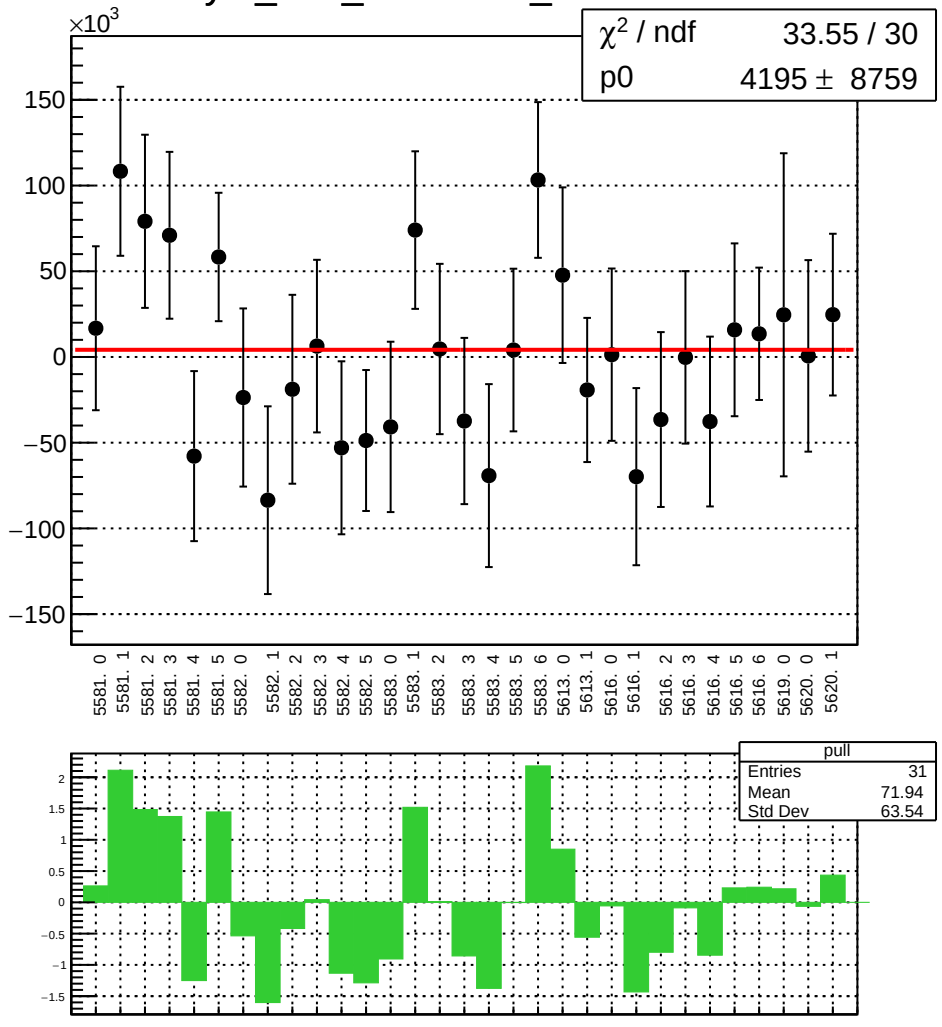

asym_atr1_rms vs run
χ² / ndf 1.063e+04 / 30
p0 3075 ± 3.983
4600
4400
4200
4000
3800
3600
3400
3200
3000
2800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

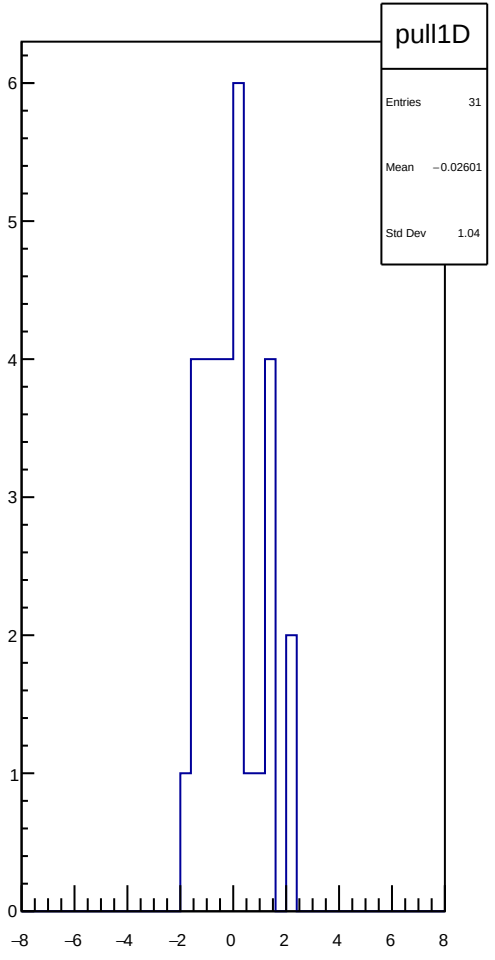

dit_asym_atr2_mean vs run
×10^3
χ^2 / ndf 21.67 / 23
p0 −6103 ± 4221
100
0
−100
−200
−300
−400
−500
−600
−700
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5619. 0
5620. 0
5620. 1

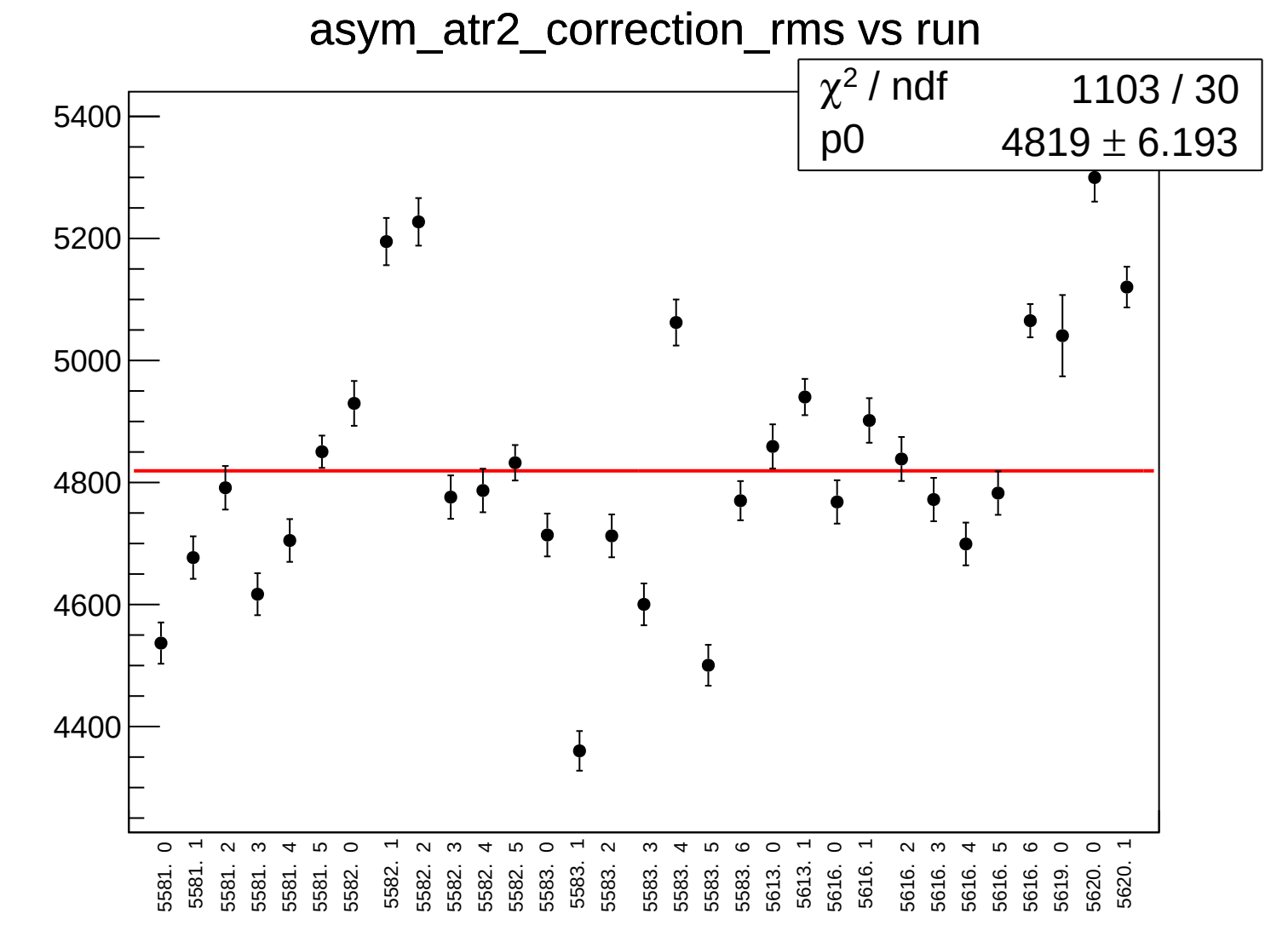

pull
Entries 24
Mean 18.66
Std Dev 10.54
1.5
1
0.5
0
−0.5
−1
−1.5

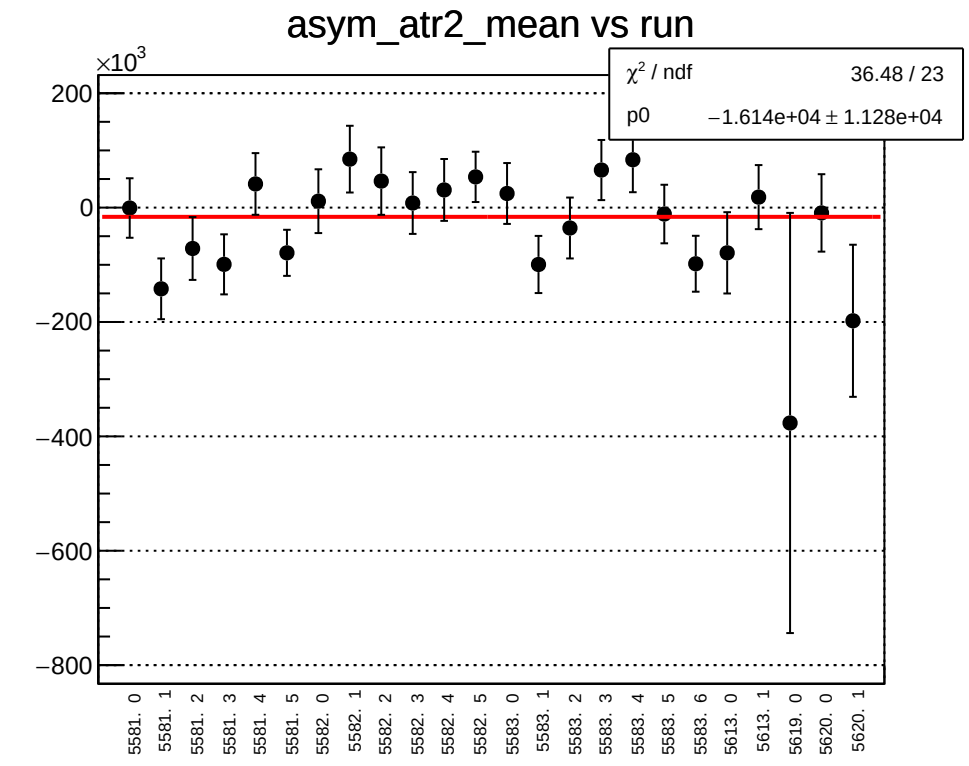

pull1D
Entries 24
Mean −0.08942
Std Dev 0.946
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

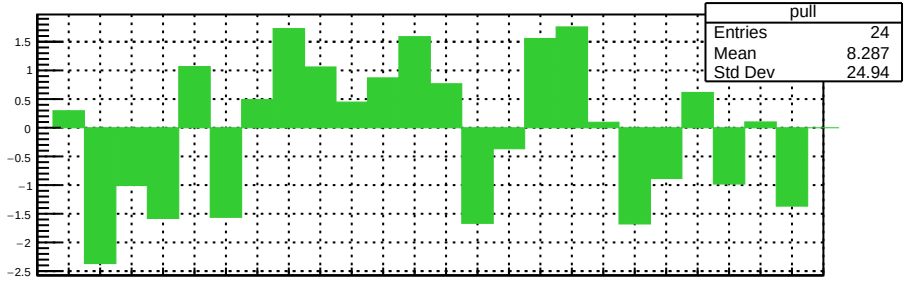

dit_asym_atr2_rms vs run
×10^3
χ^2 / ndf 1.386e+05 / 30
p0 2027 ± 2.964
450
400
350
300
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

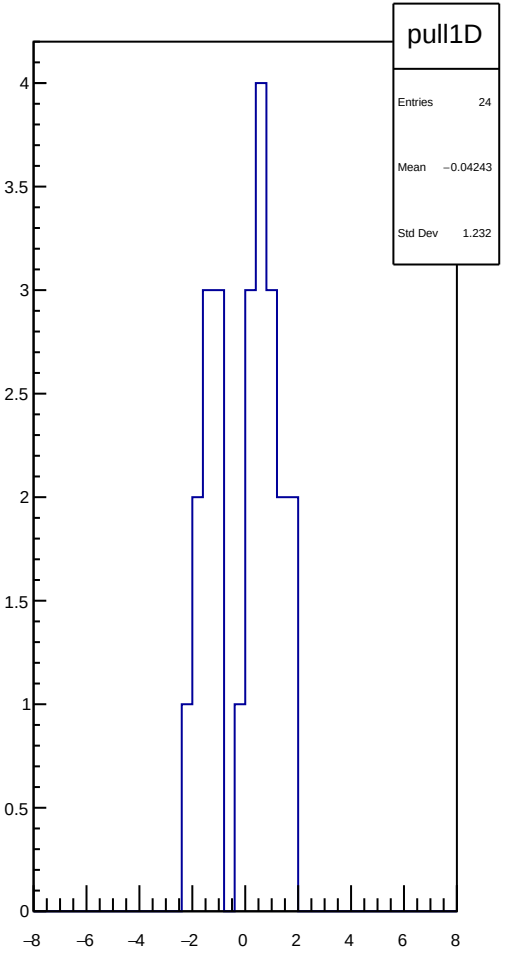

asym_atr2_correction_mean vs run
×10^3
χ^2 / ndf 33.55 / 30
p0 4195 ± 8759
150
100
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 71.94
Std Dev 63.54
2
1.5
1
0.5
0
−0.5
−1
−1.5

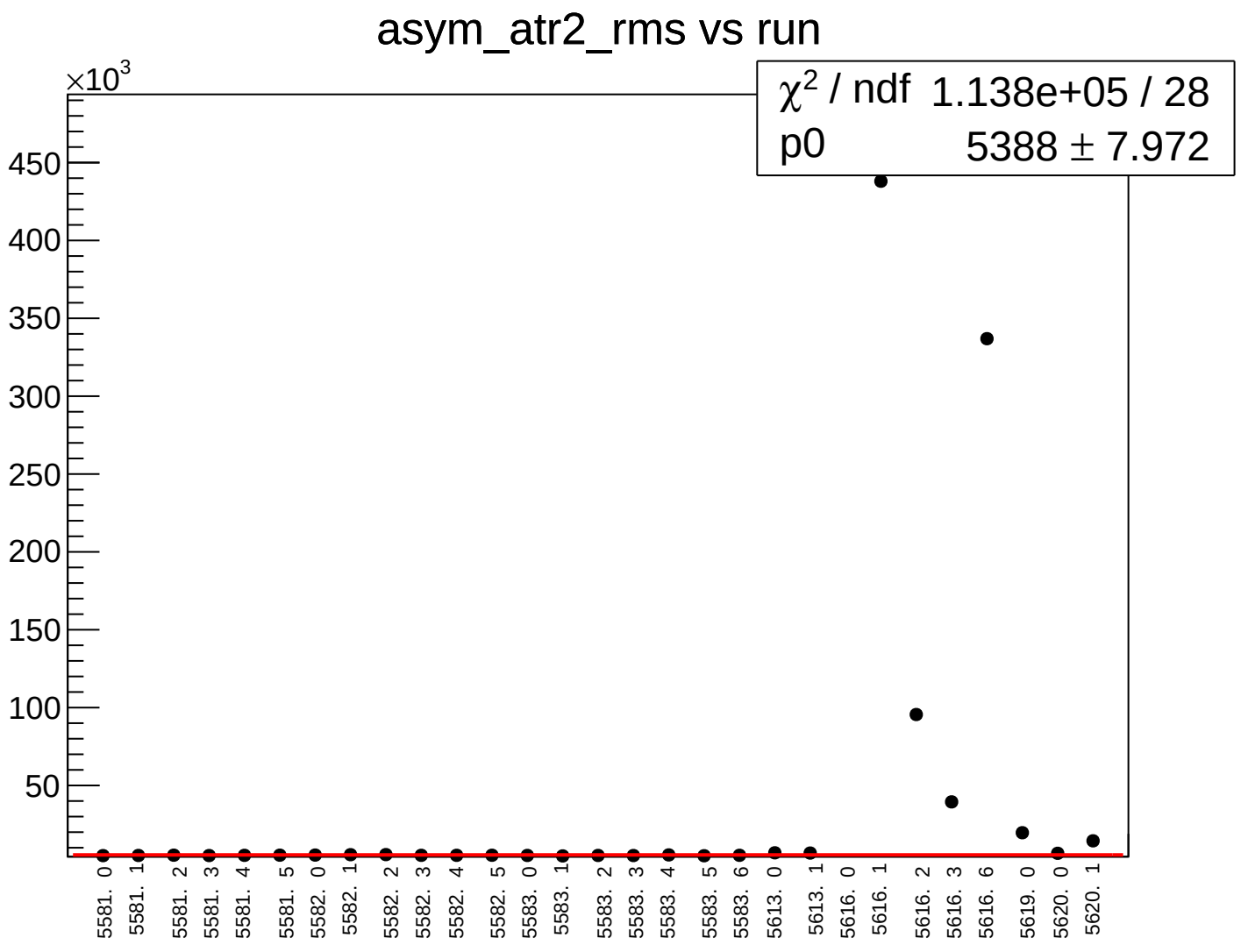

pull1D
Entries 31
Mean −0.02601
Std Dev 1.04
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

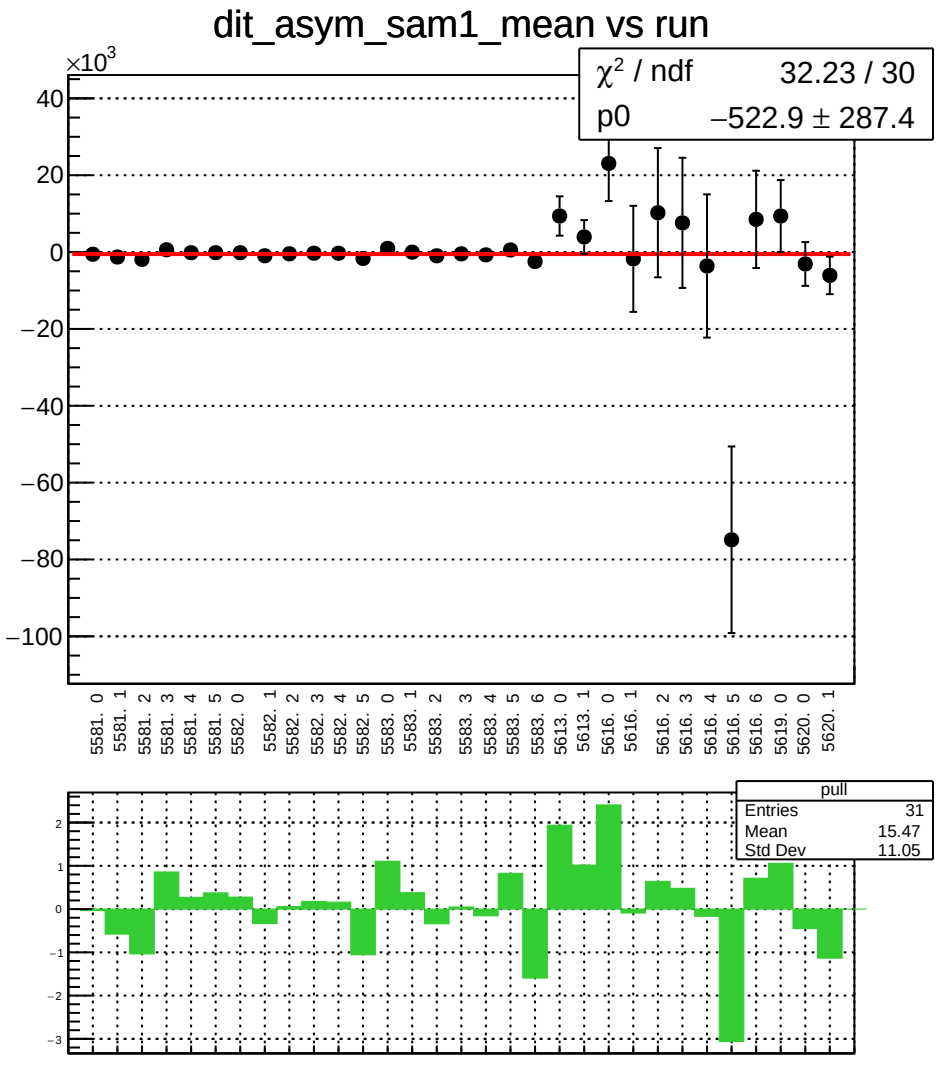

asym_atr2_correction_rms vs run
χ² / ndf 1103 / 30
p0 4819 ± 6.193
5400
5200
5000
4800
4600
4400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

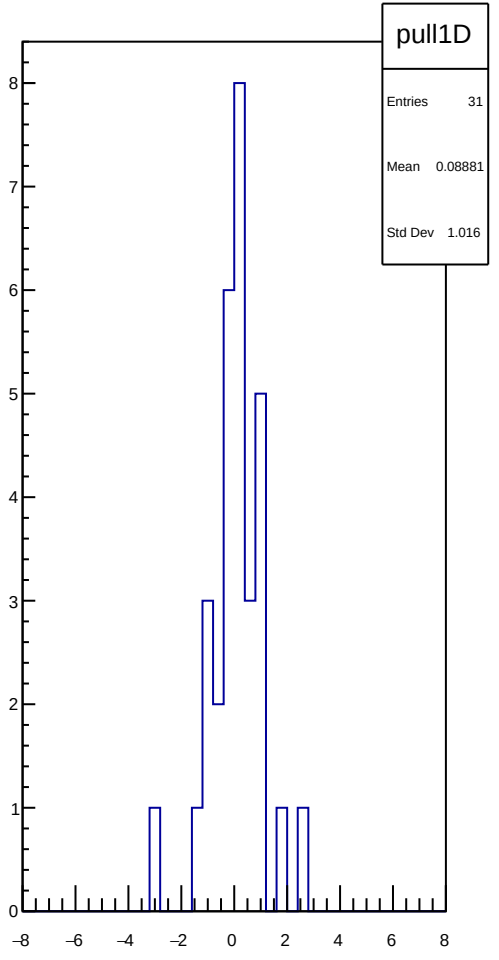

asym_atr2_mean vs run
×10^3
χ² / ndf 36.48 / 23
p0 −1.614e+04 ± 1.128e+04
200
0
−200
−400
−600
−800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5619. 0
5620. 0
5620. 1

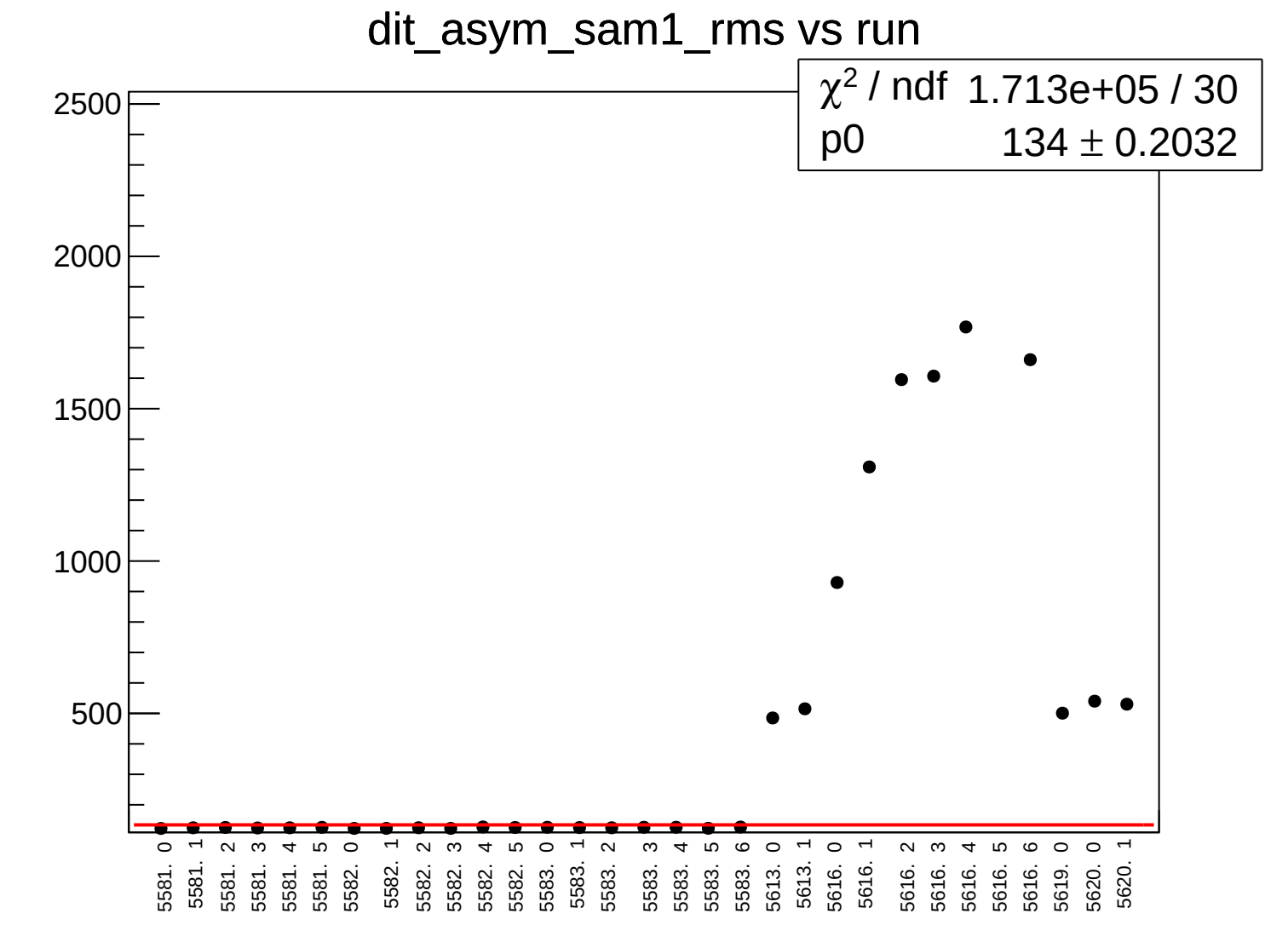

pull
Entries 24
Mean 8.287
Std Dev 24.94
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

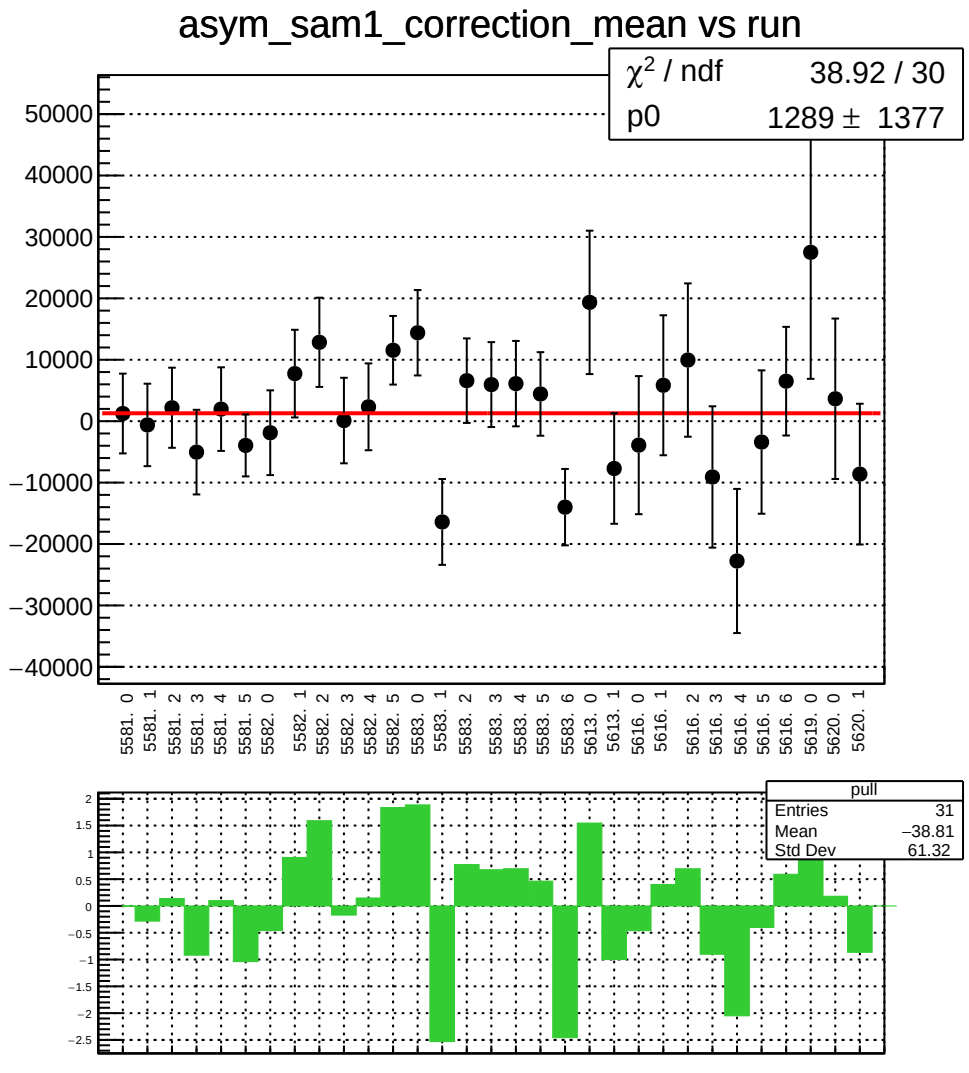

pull1D
Entries 24
Mean −0.04243
Std Dev 1.232
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

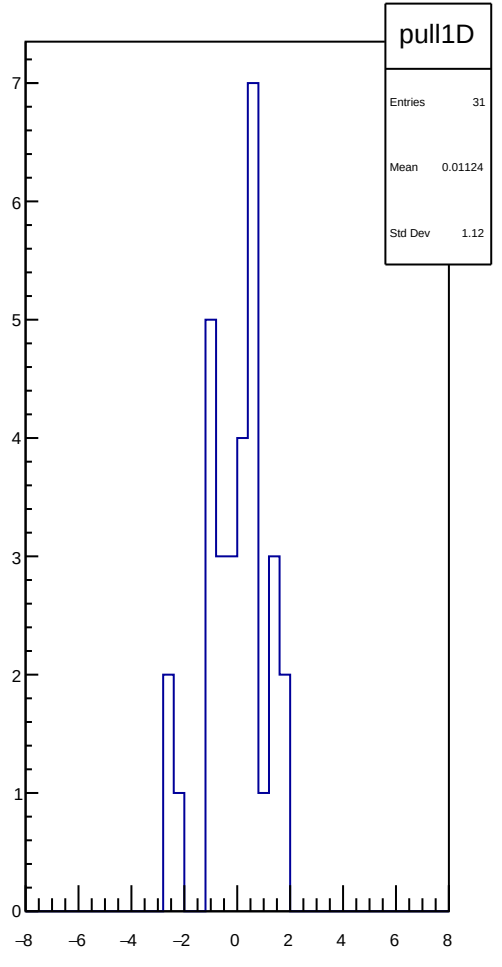

asym_atr2_rms vs run
×10^3
χ^2 / ndf 1.138e+05 / 28
p0 5388 ± 7.972
450
400
350
300
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 6
5619. 0
5620. 0
5620. 1

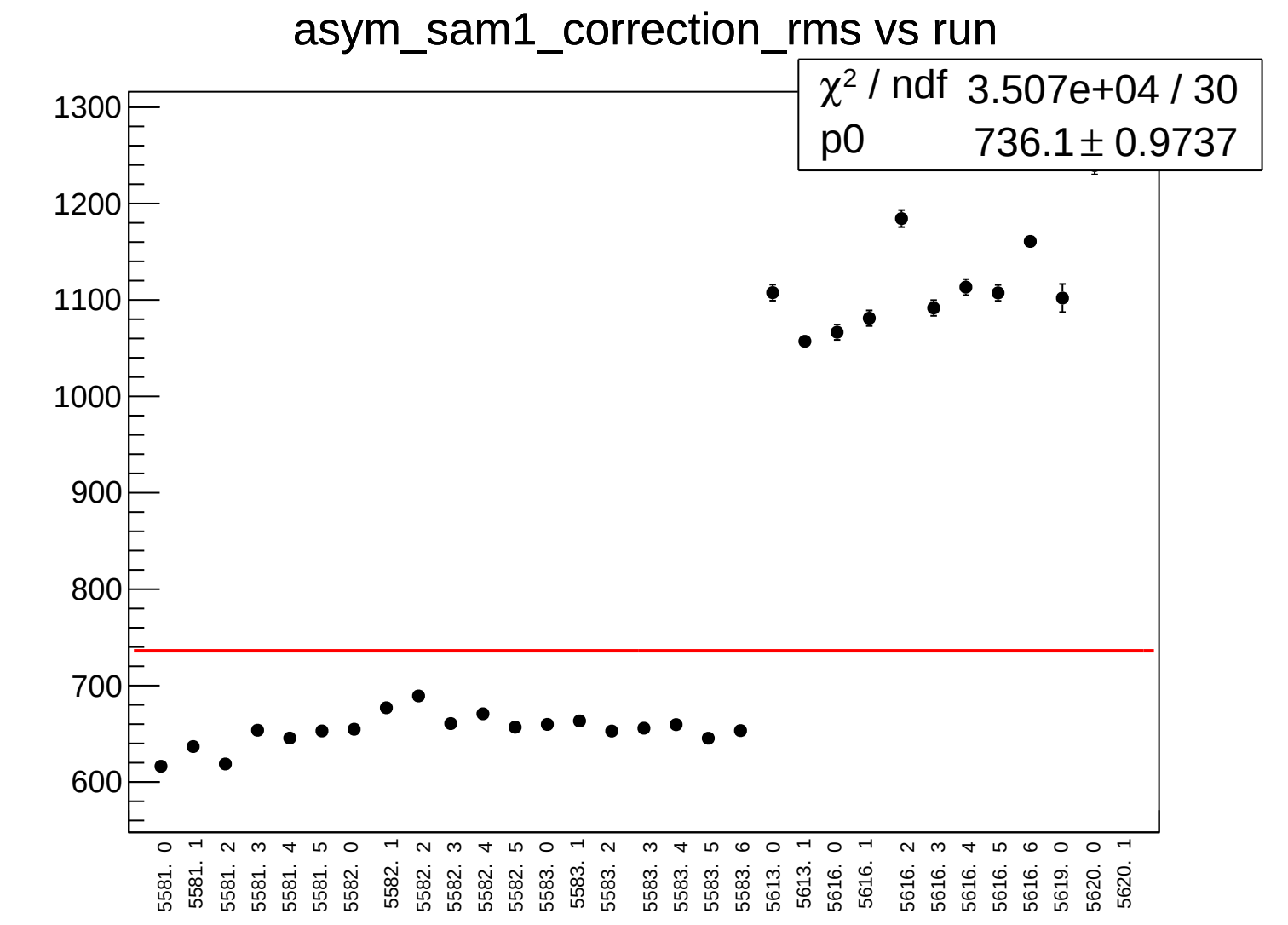

dit_asym_sam1_mean vs run
×10^3
χ² / ndf 32.23 / 30
p0 −522.9 ± 287.4
40
20
0
−20
−40
−60
−80
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 15.47
Std Dev 11.05
2
1
0
−1
−2
−3

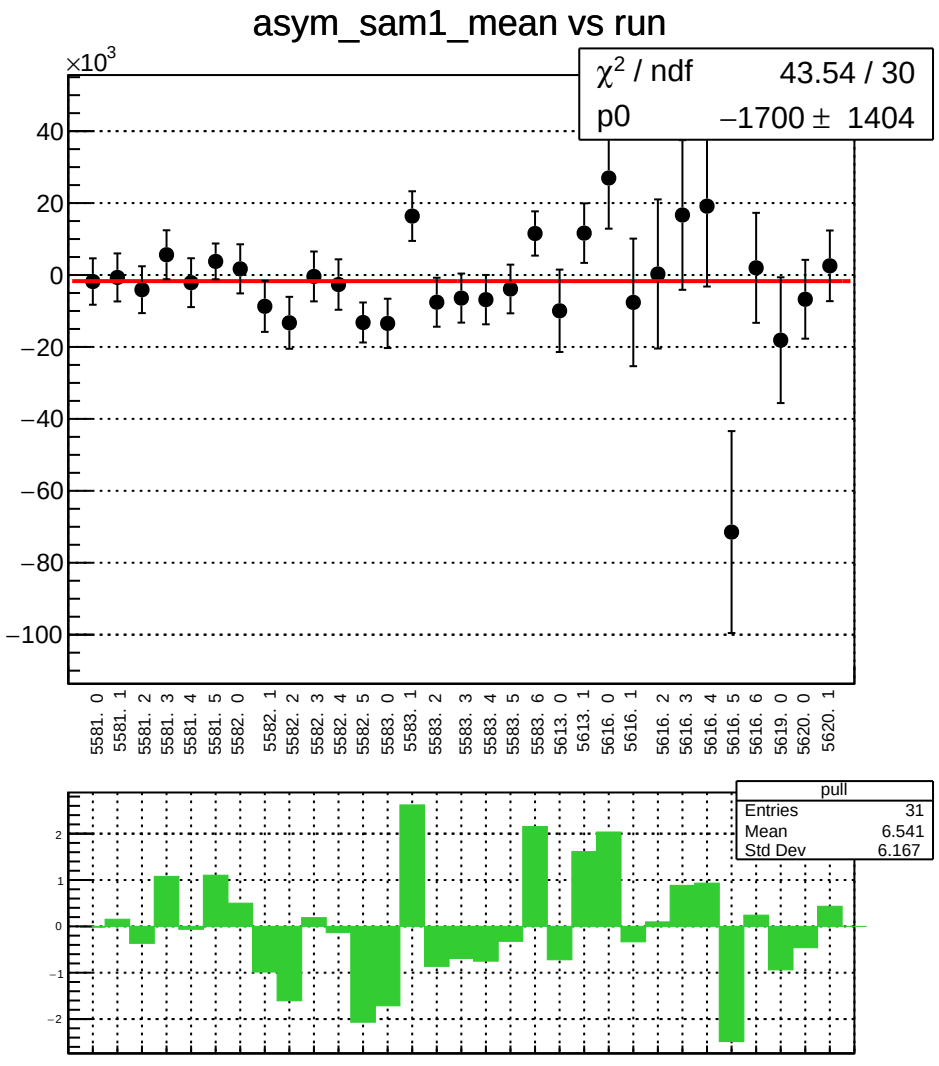

pull1D
Entries 31
Mean 0.08881
Std Dev 1.016
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

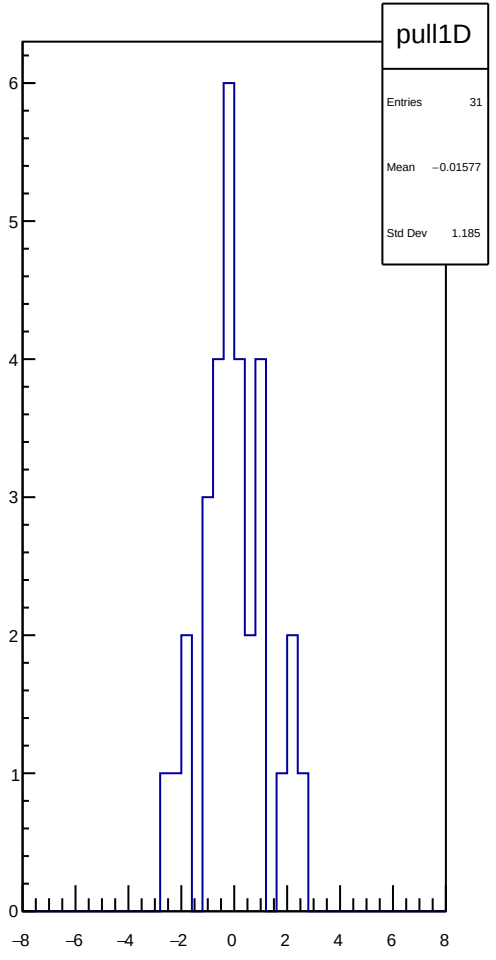

dit_asym_sam1_rms vs run
χ^2 / ndf 1.713e+05 / 30
p0 134 ± 0.2032
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

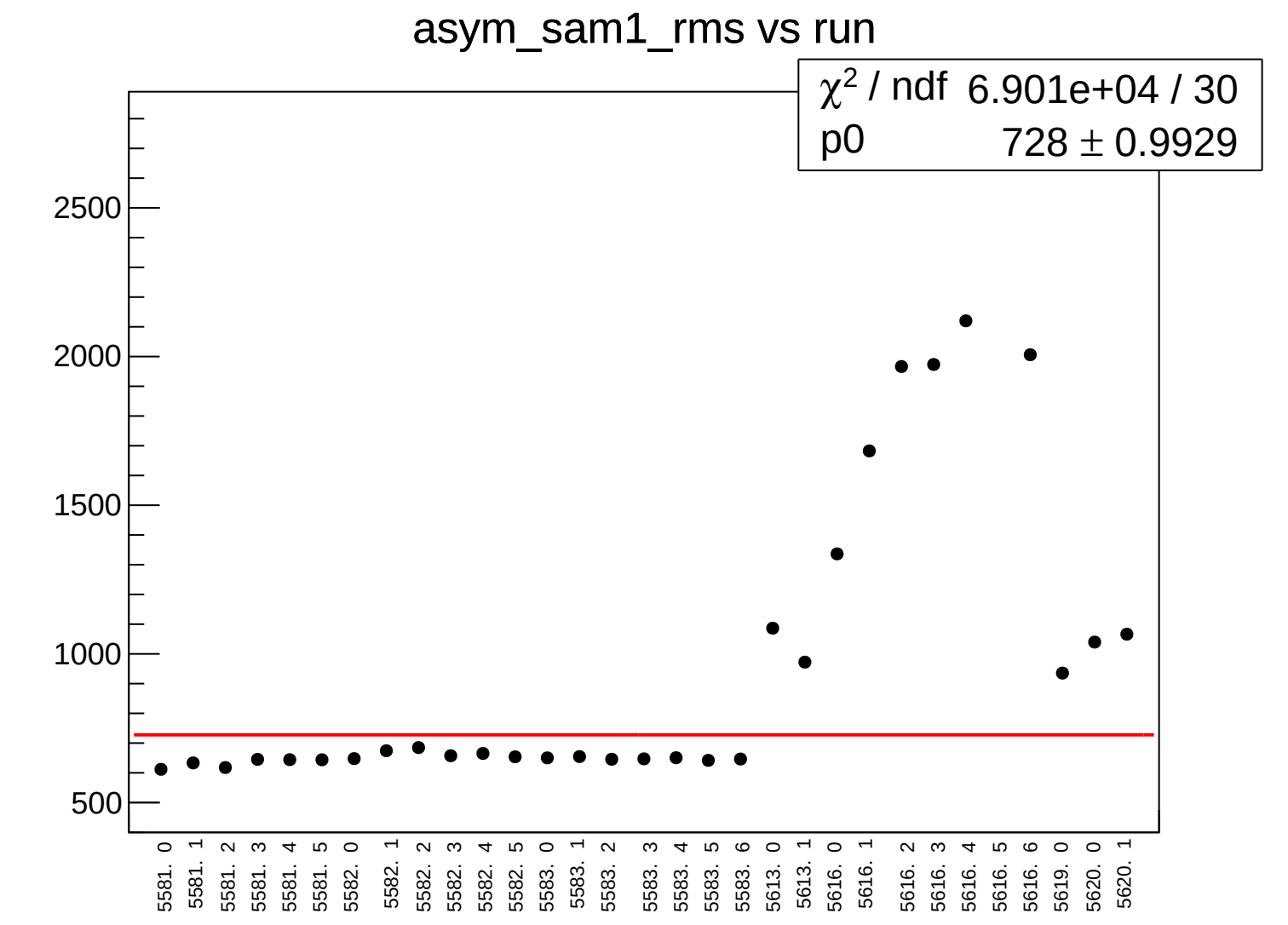

asym_sam1_correction_mean vs run
χ² / ndf 38.92 / 30
p0 1289 ± 1377
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −38.81
Std Dev 61.32
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

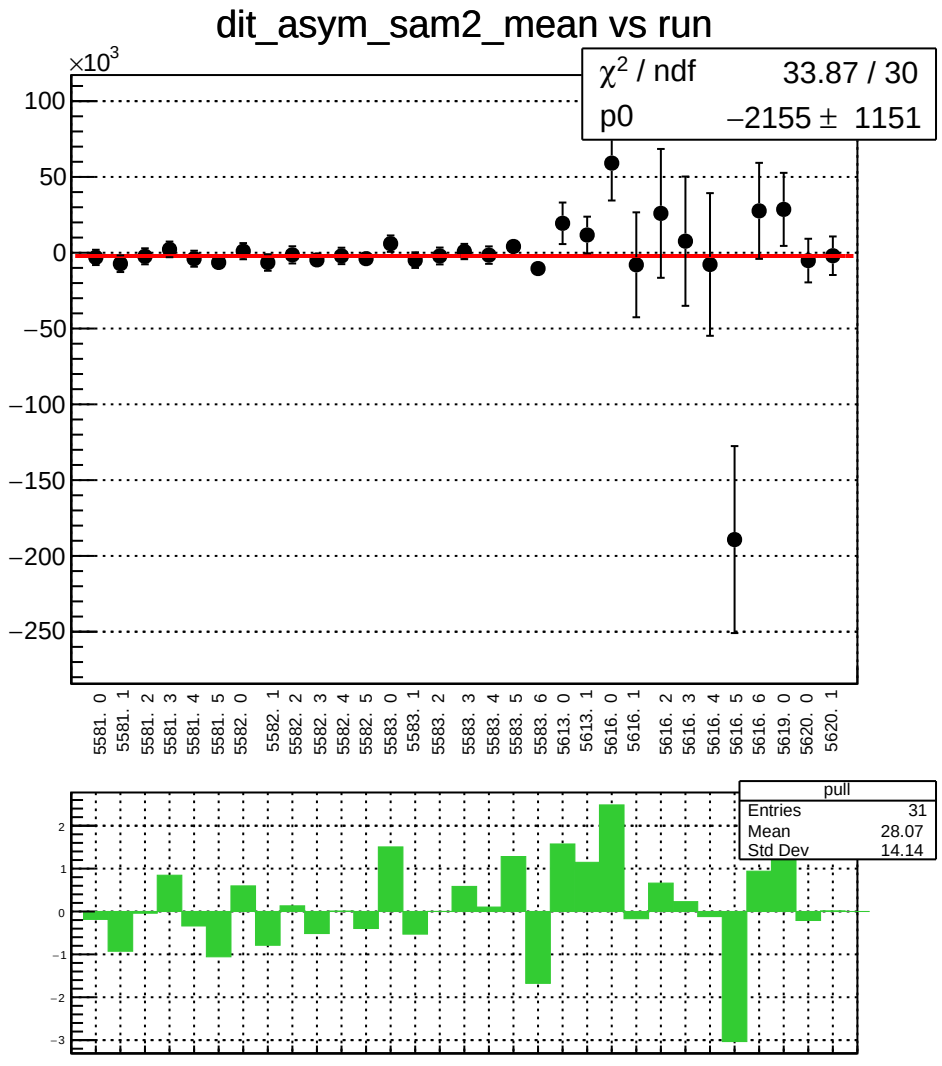

pull1D
Entries 31
Mean 0.01124
Std Dev 1.12
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

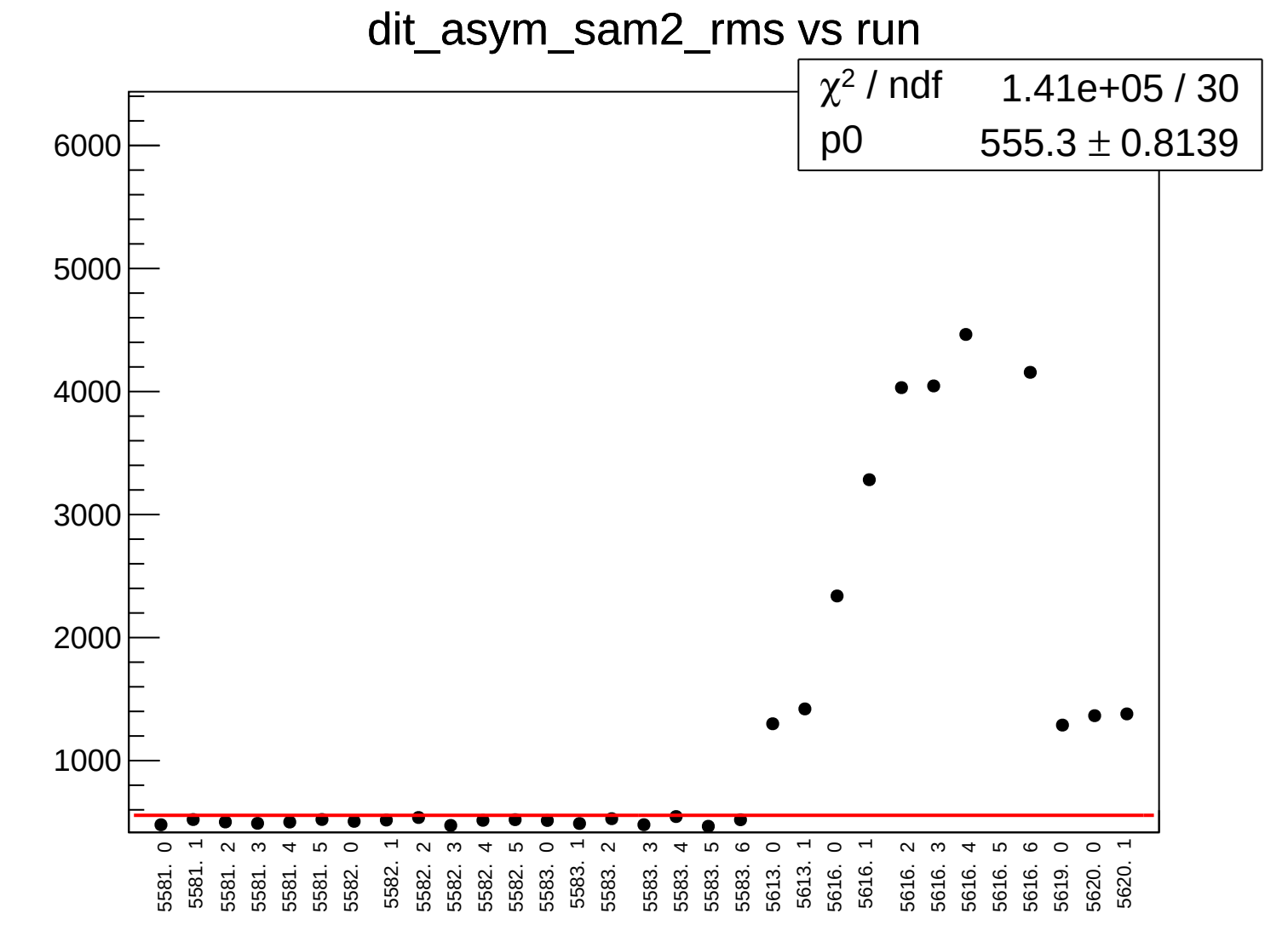

asym_sam1_correction_rms vs run
χ² / ndf 3.507e+04 / 30
p0 736.1 ± 0.9737
1300
1200
1100
1000
900
800
700
600
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

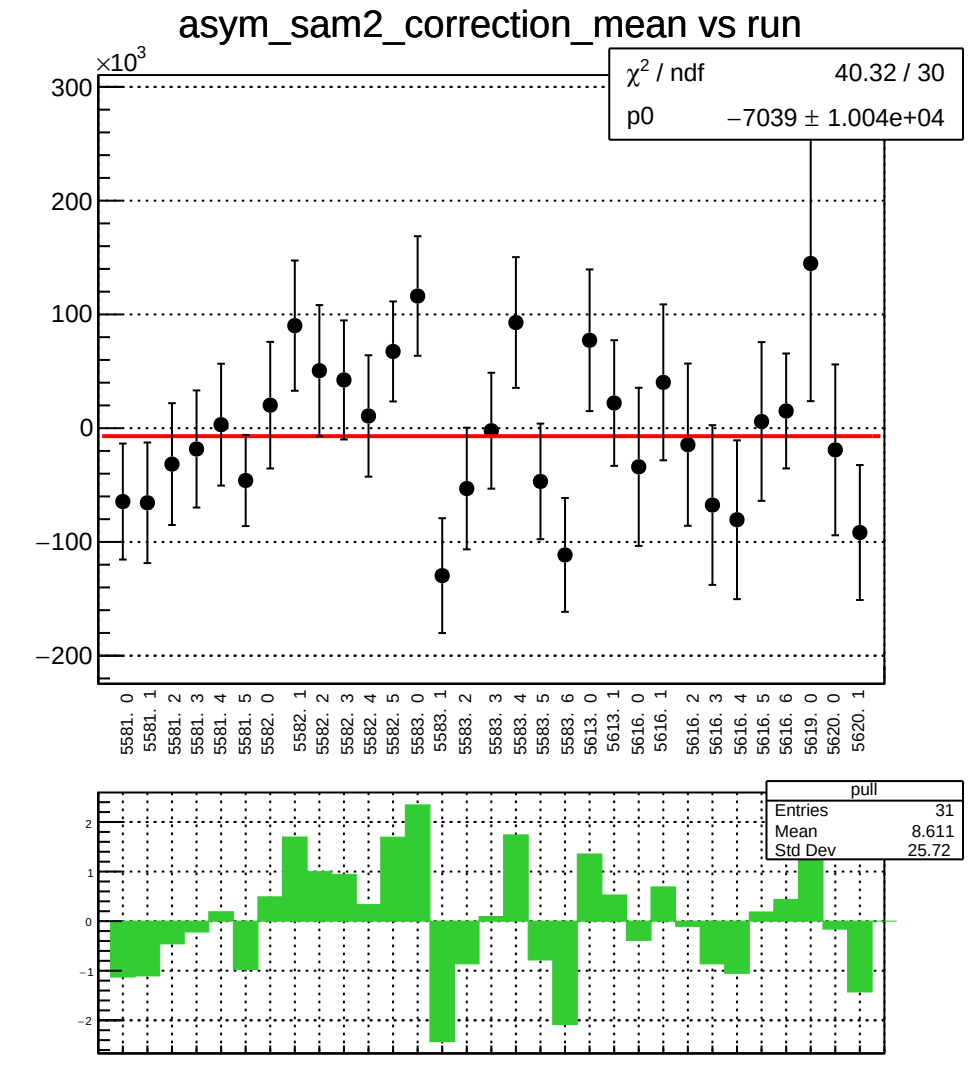

asym_sam1_mean vs run
×10^3
χ^2 / ndf 43.54 / 30
p0 −1700 ± 1404
40
20
0
−20
−40
−60
−80
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 6.541
Std Dev 6.167
2
1
0
−1
−2

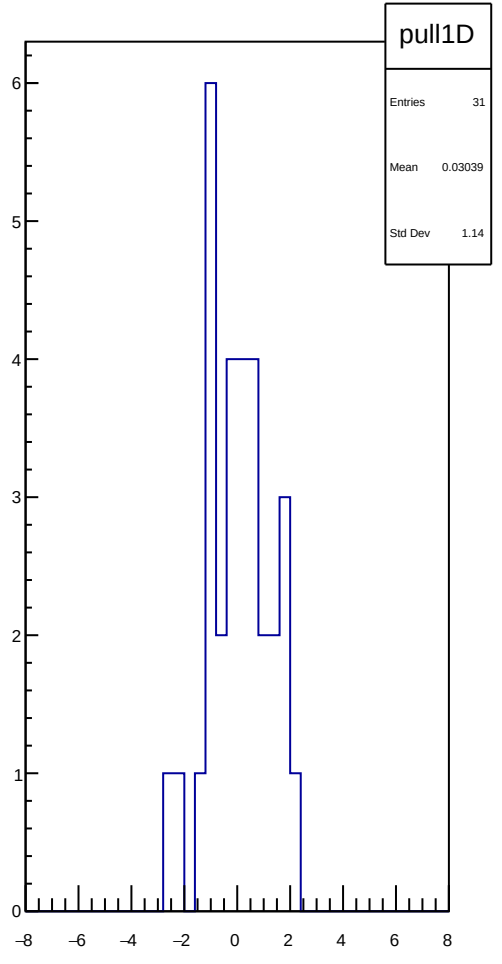

pull1D
Entries 31
Mean −0.01577
Std Dev 1.185
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

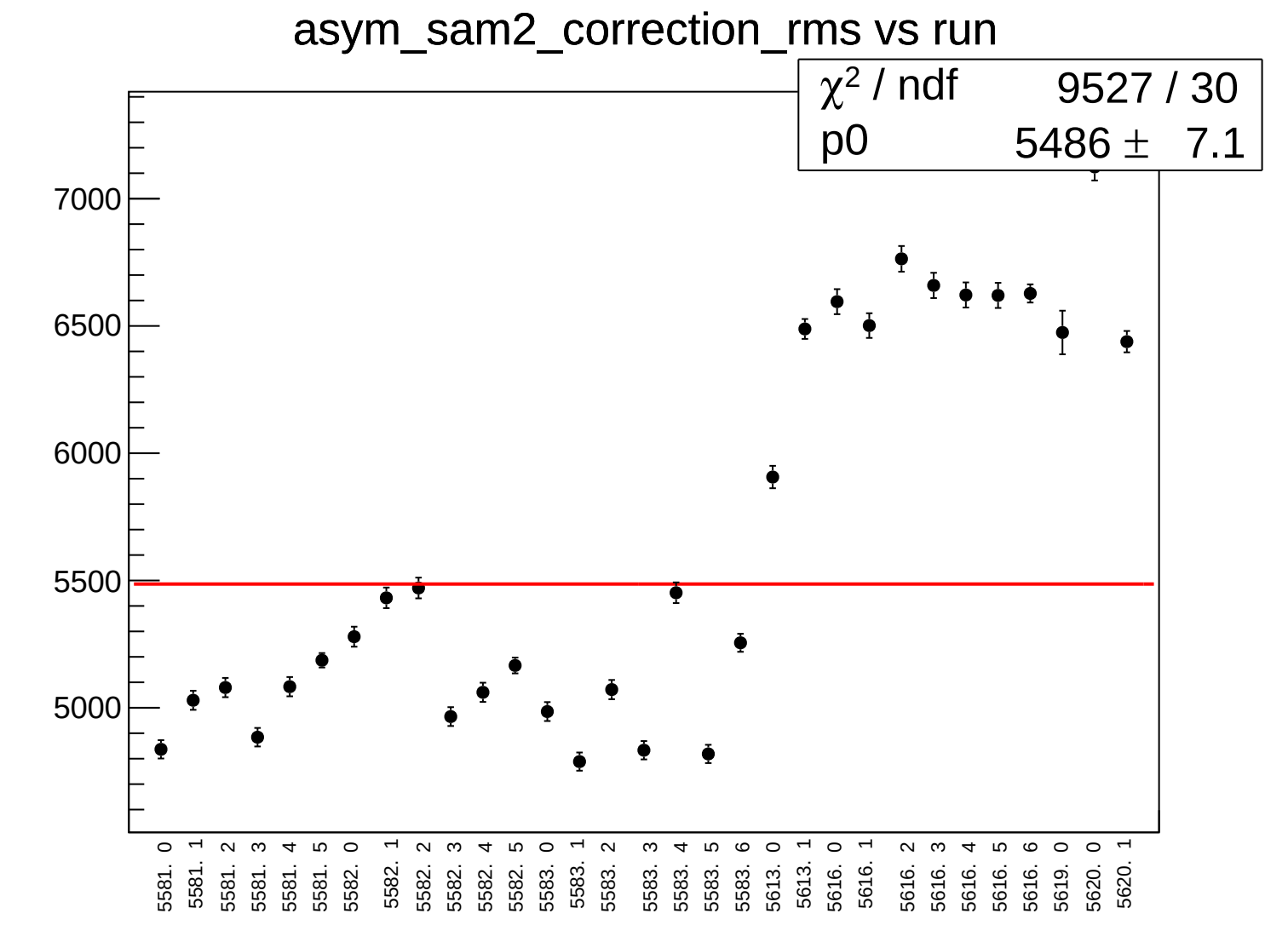

asym_sam1_rms vs run
χ² / ndf 6.901e+04 / 30
p0 728 ± 0.9929
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

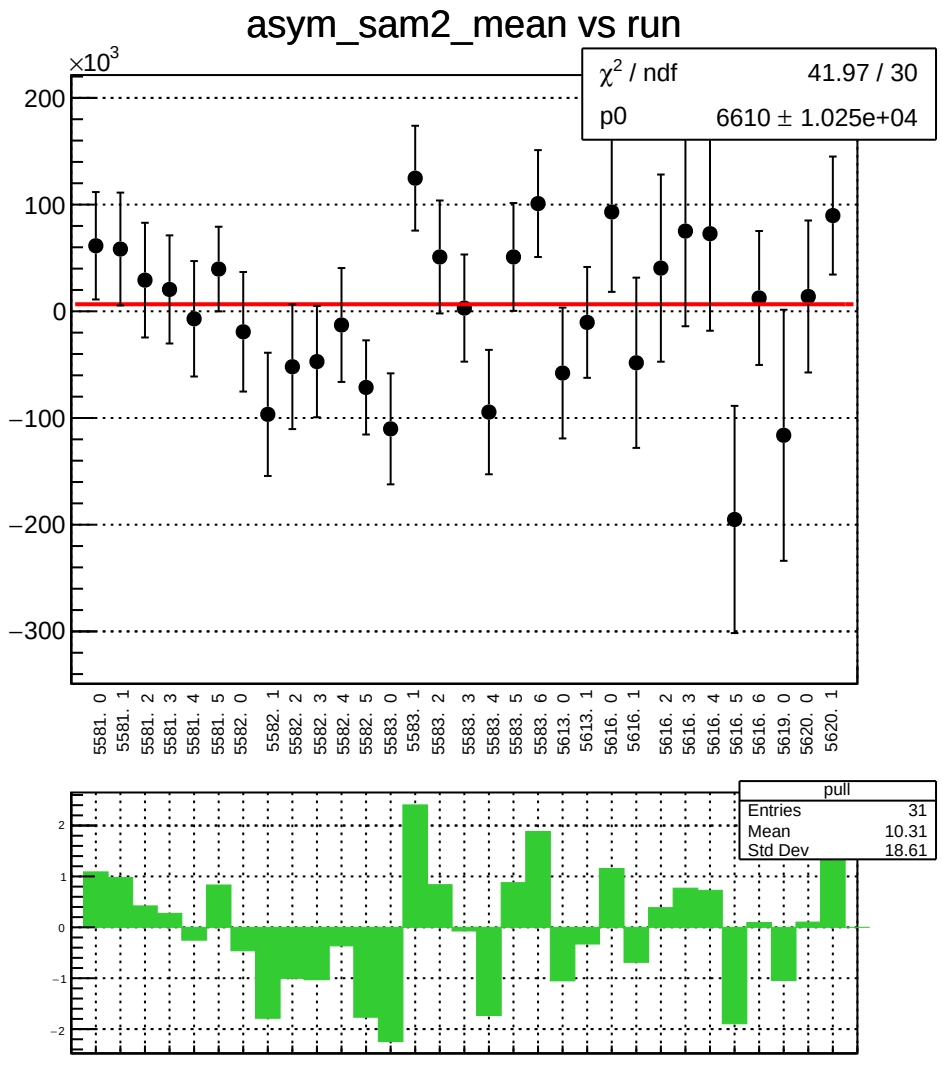

dit_asym_sam2_mean vs run
×10^3
χ^2 / ndf 33.87 / 30
p0 −2155 ± 1151
100
50
0
−50
−100
−150
−200
−250
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 28.07
Std Dev 14.14
2
1
0
−1
−2
−3
pull1D
Entries 31
Mean 0.1101
Std Dev 1.039
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

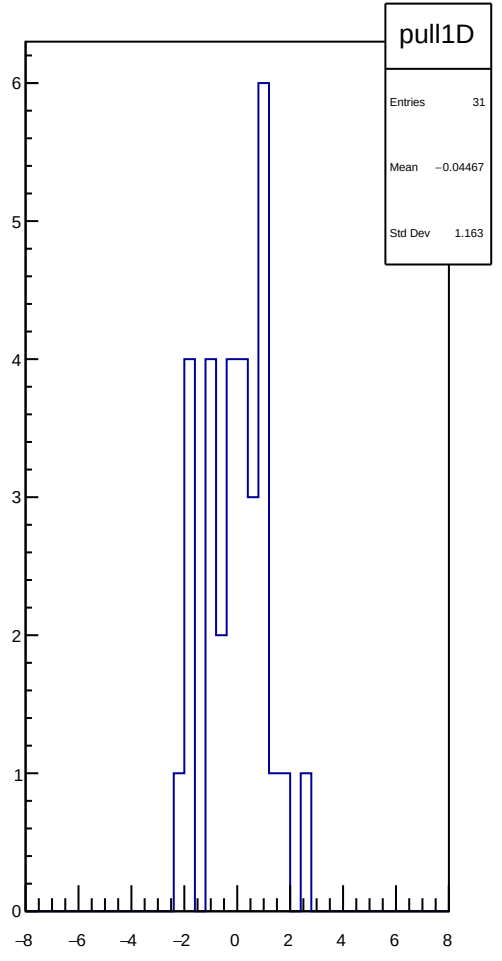

dit_asym_sam2_rms vs run
χ² / ndf 1.41e+05 / 30
p0 555.3 ± 0.8139
6000
5000
4000
3000
2000
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

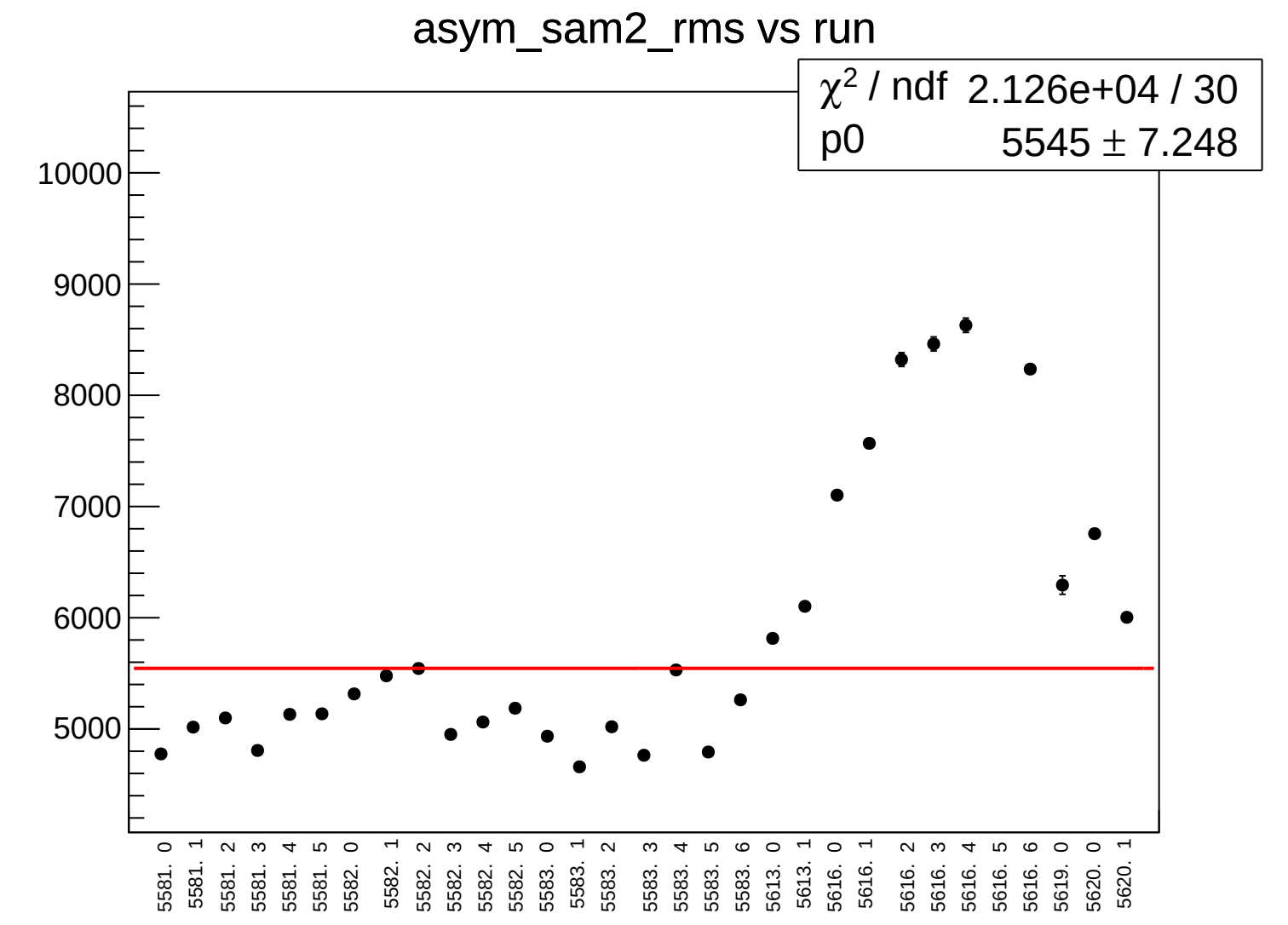

asym_sam2_correction_mean vs run
×10^3
χ² / ndf 40.32 / 30
p0 −7039 ± 1.004e+04
300
200
100
0
−100
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 8.611
Std Dev 25.72
2
1
0
−1
−2

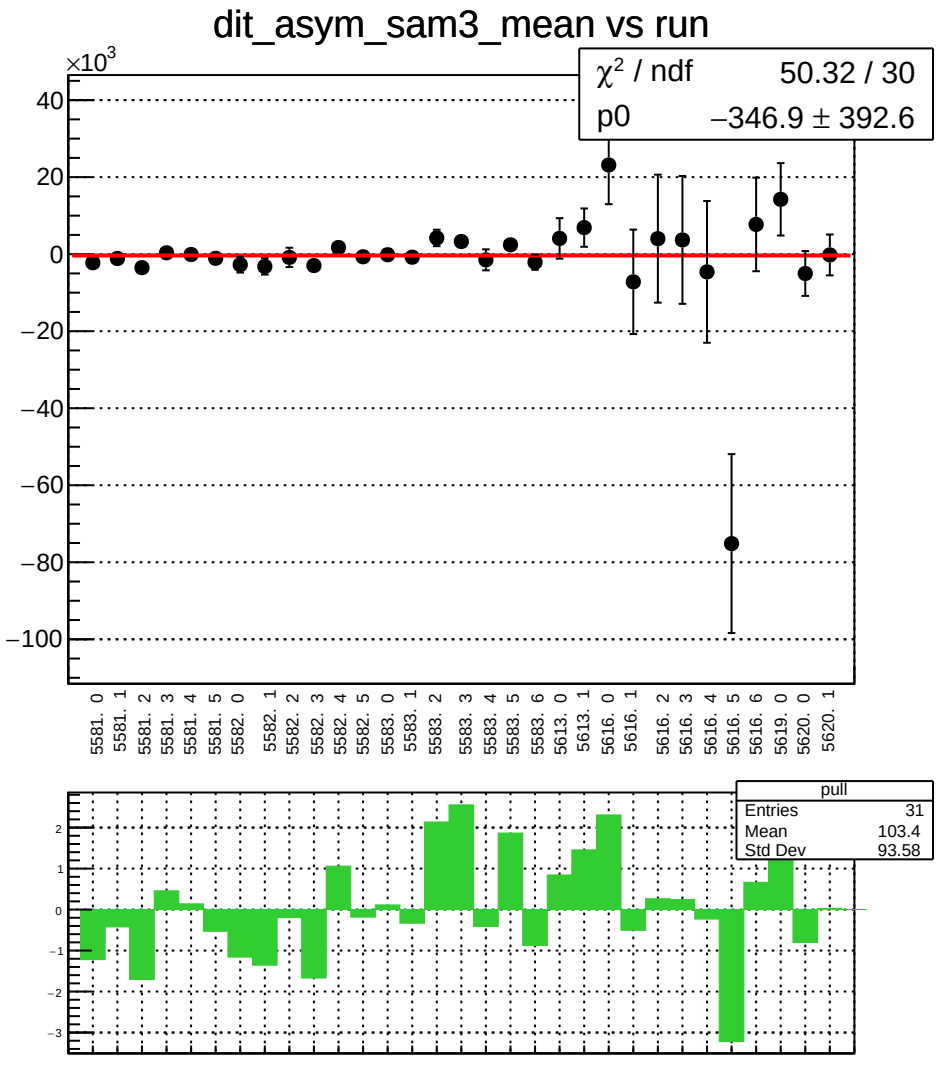

pull1D
Entries 31
Mean 0.03039
Std Dev 1.14
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

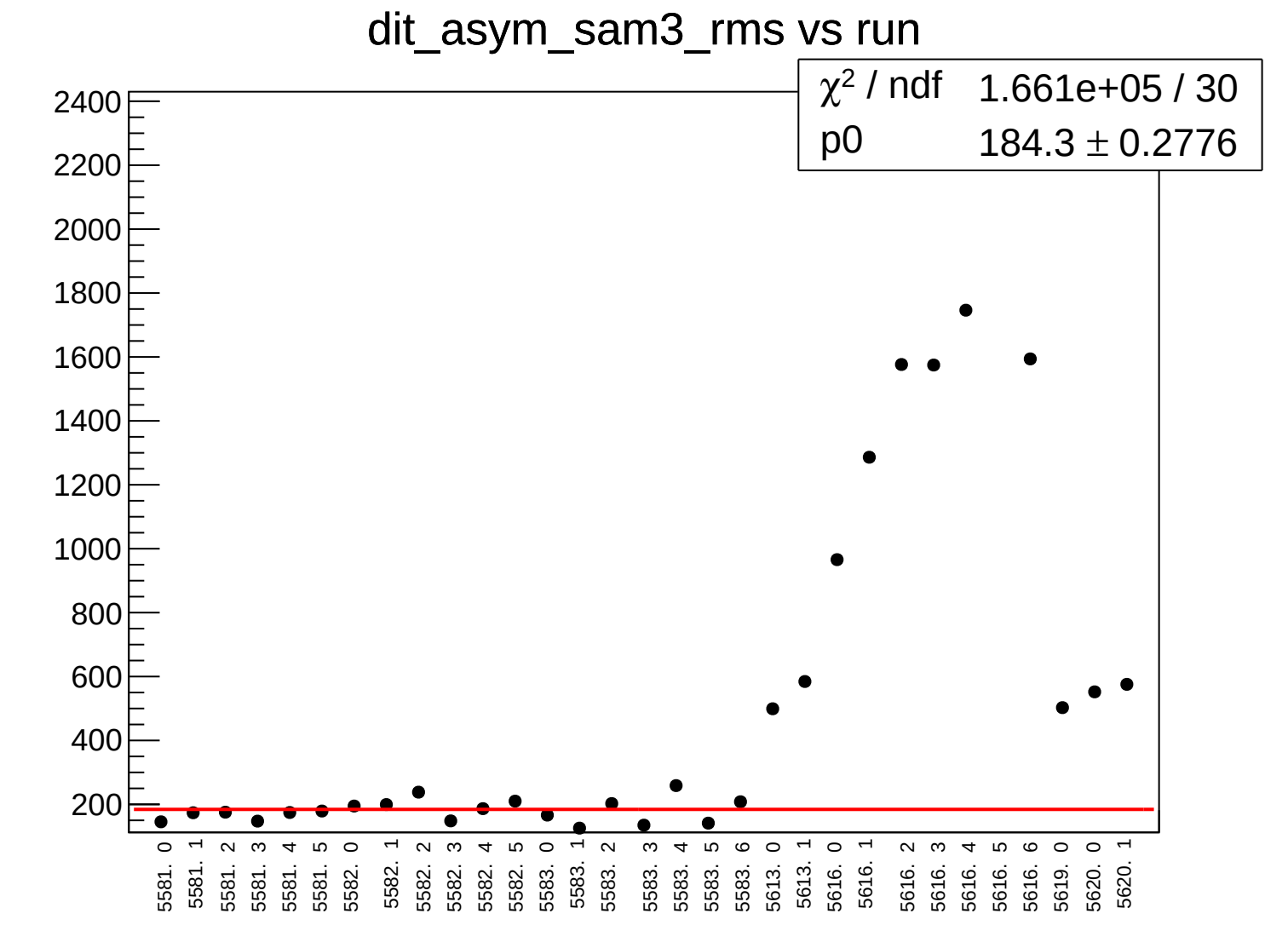

asym_sam2_correction_rms vs run
χ² / ndf 9527 / 30
p0 5486 ± 7.1
7000
6500
6000
5500
5000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

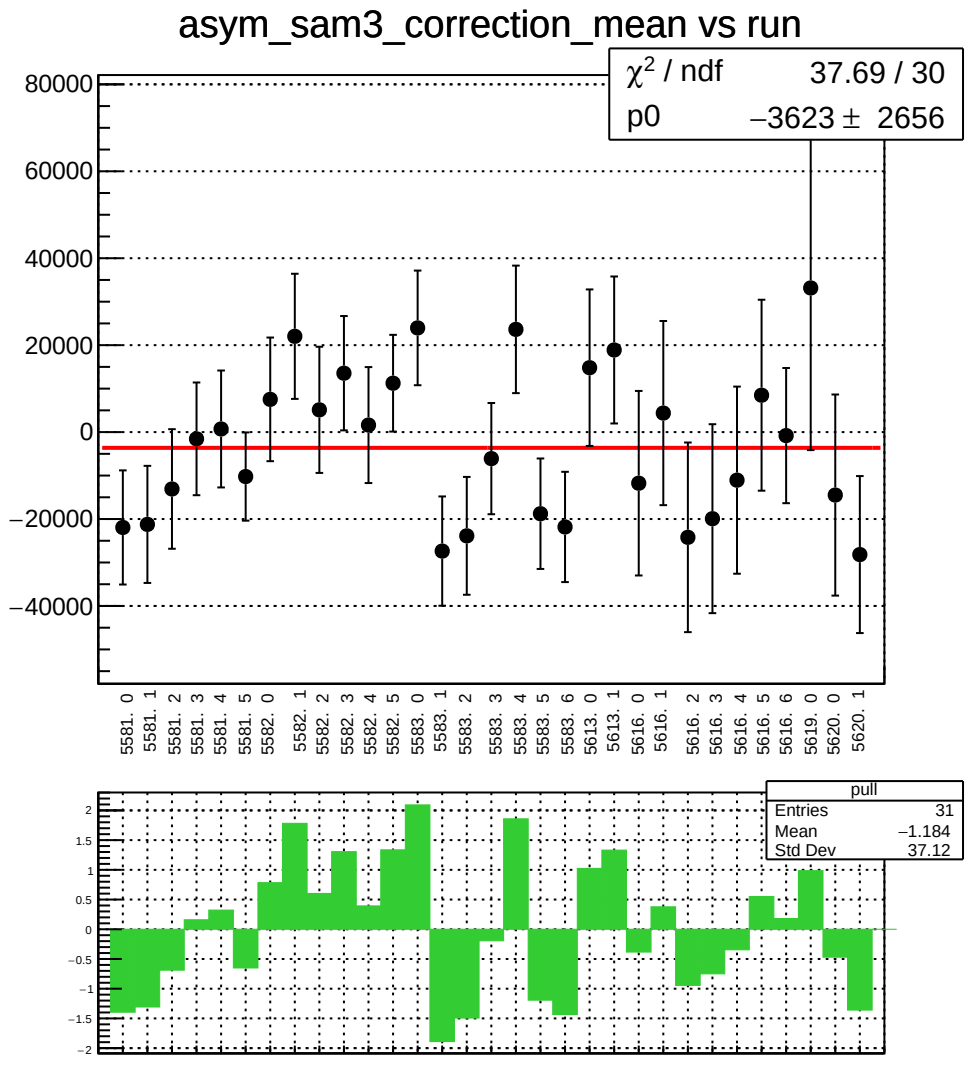

asym_sam2_mean vs run
×10^3
χ² / ndf 41.97 / 30
p0 6610 ± 1.025e+04
200
100
0
−100
−200
−300
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 10.31
Std Dev 18.61
2
1
0
−1
−2

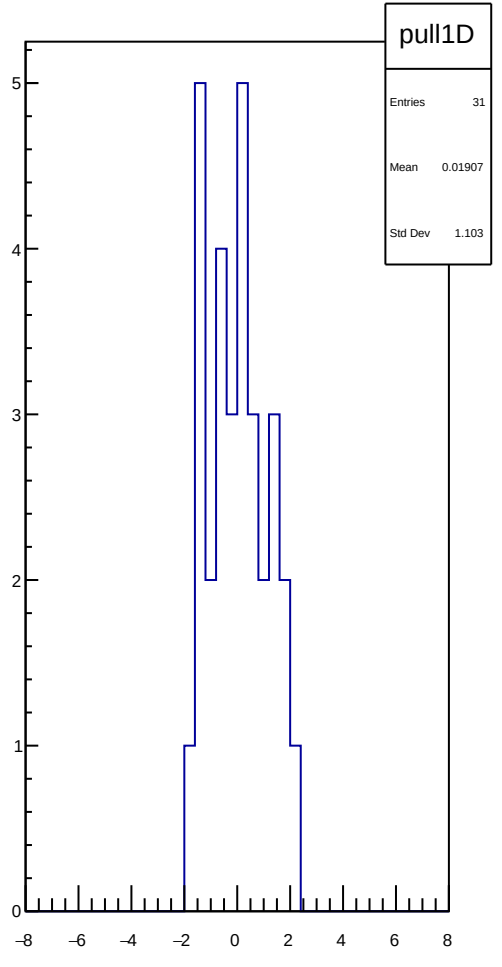

pull1D
Entries 31
Mean −0.04467
Std Dev 1.163
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

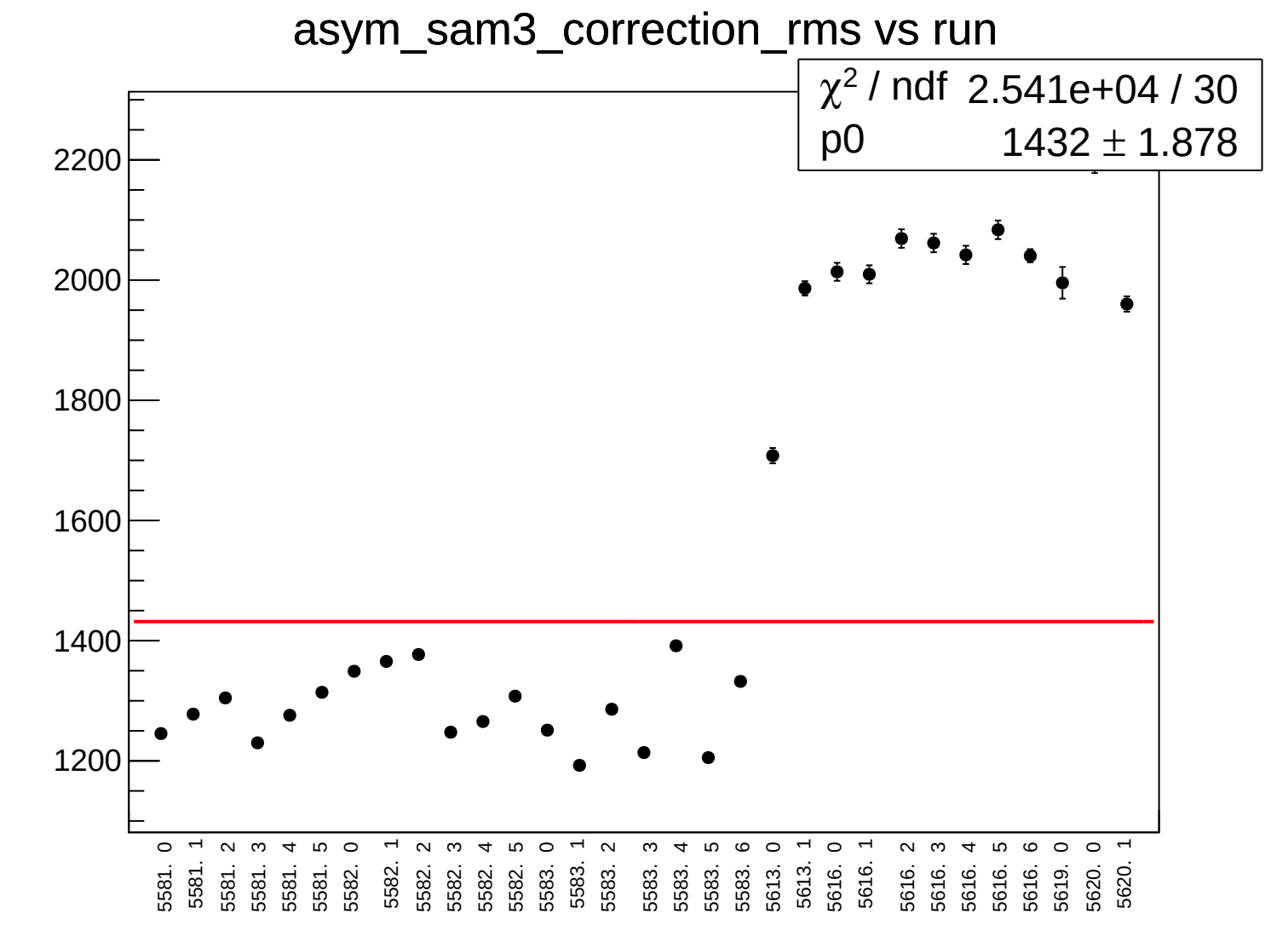

asym_sam2_rms vs run
χ² / ndf 2.126e+04 / 30
p0 5545 ± 7.248
10000
9000
8000
7000
6000
5000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

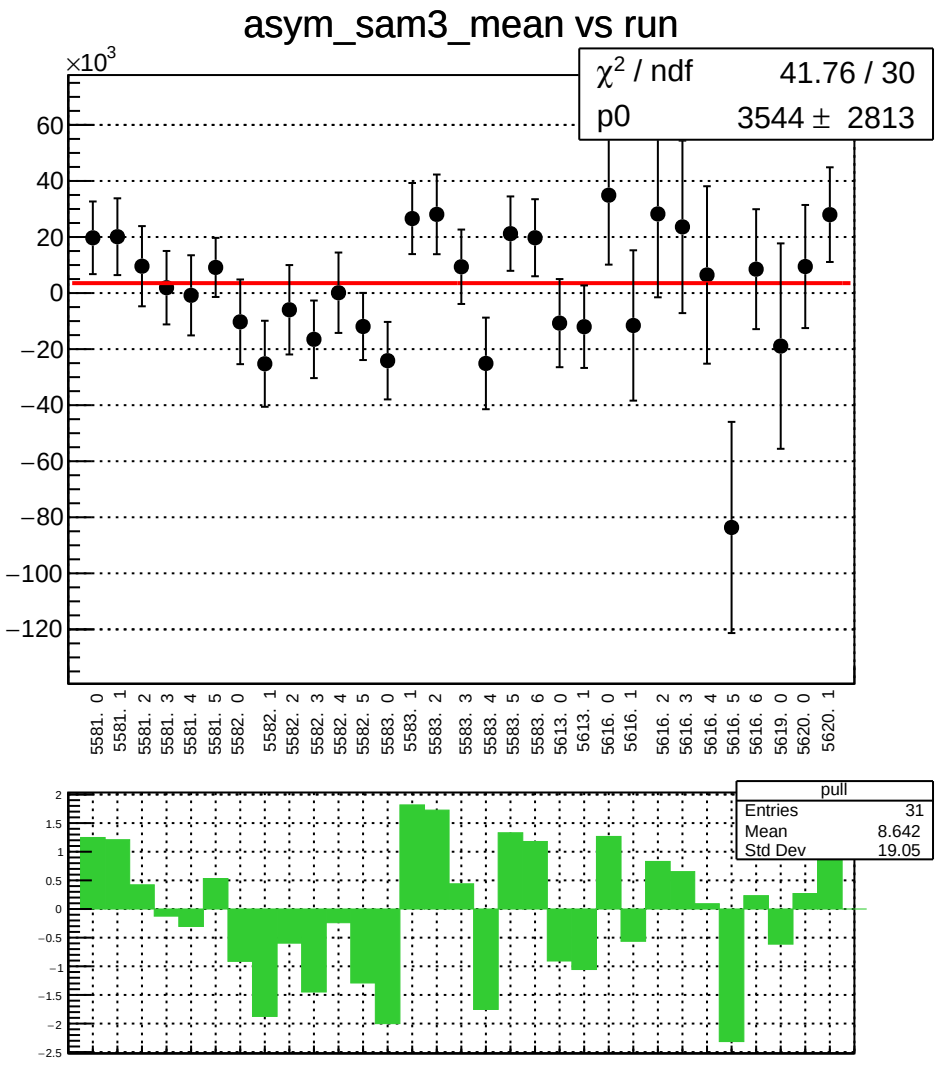

dit_asym_sam3_mean vs run
×10^3
χ² / ndf 50.32 / 30
p0 −346.9 ± 392.6
40
20
0
−20
−40
−60
−80
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 103.4
Std Dev 93.58
2
1
0
−1
−2
−3
pull1D
Entries 31
Mean 0.0281
Std Dev 1.274
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

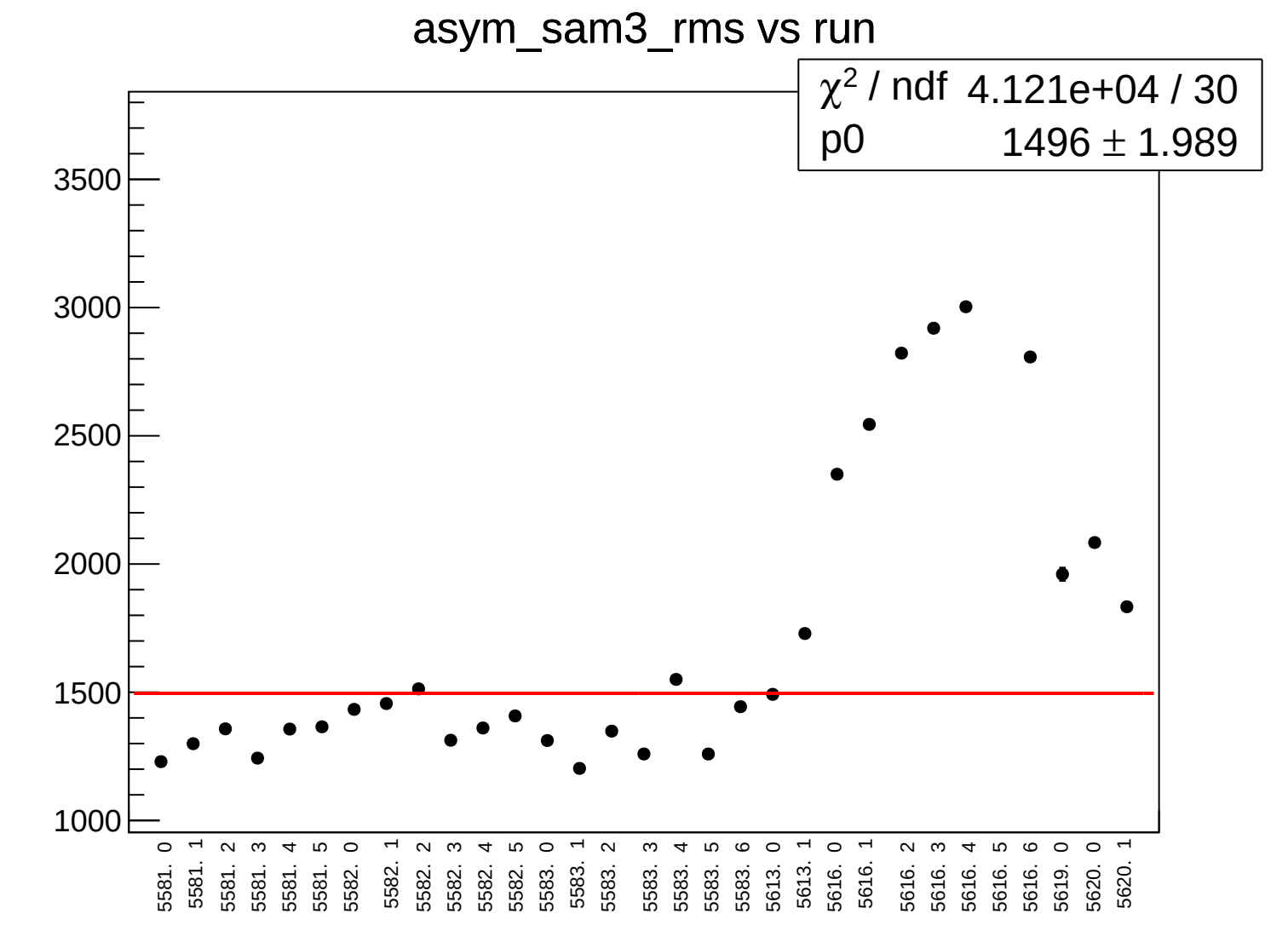

dit_asym_sam3_rms vs run
χ² / ndf 1.661e+05 / 30
p0 184.3 ± 0.2776
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

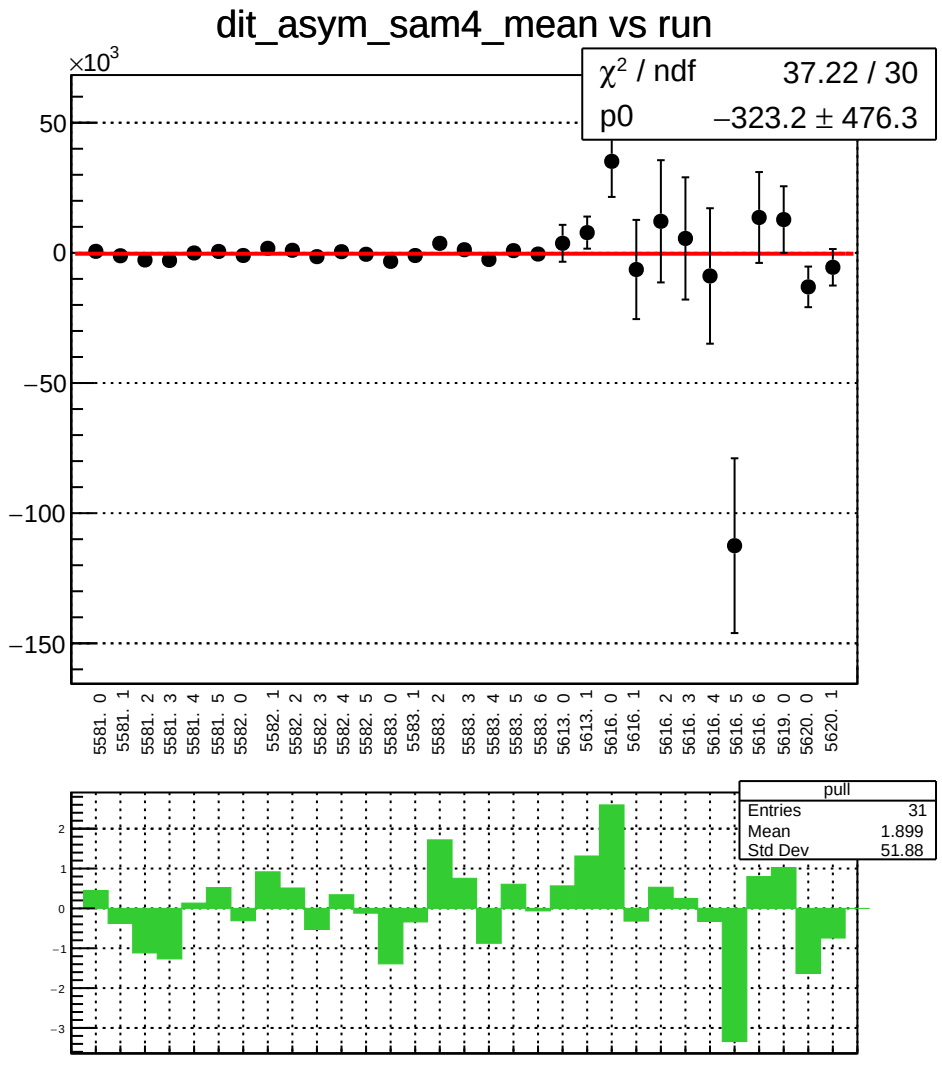

asym_sam3_correction_mean vs run
χ² / ndf 37.69 / 30
p0 −3623 ± 2656
80000
60000
40000
20000
0
−20000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −1.184
Std Dev 37.12
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

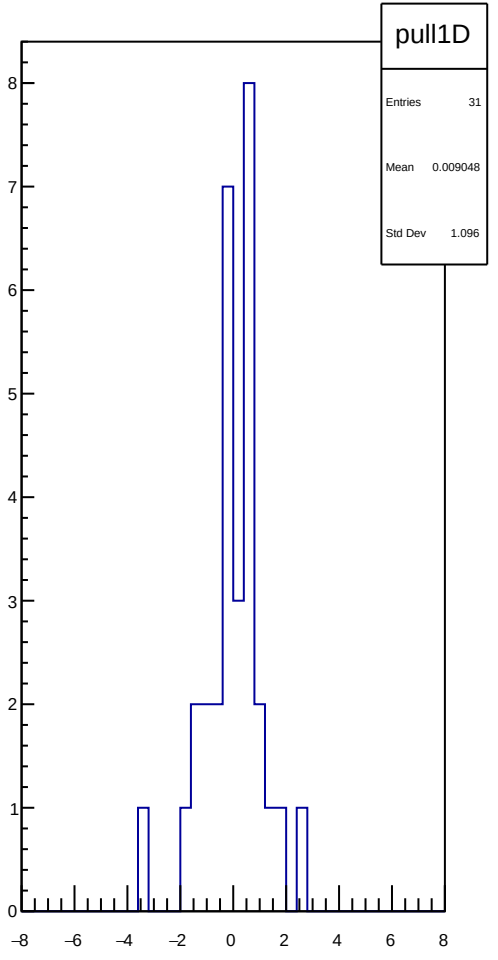

pull1D
Entries 31
Mean 0.01907
Std Dev 1.103
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

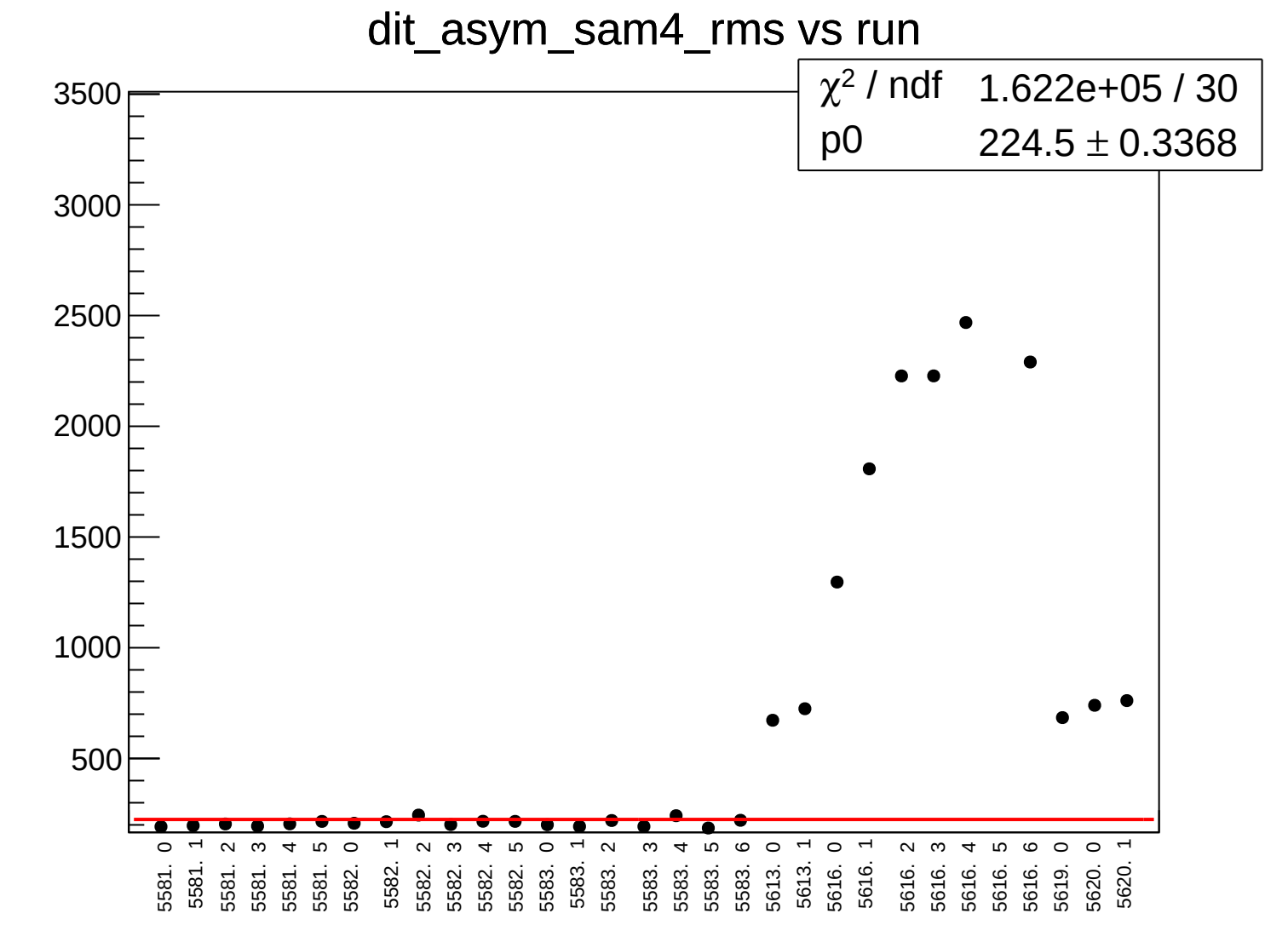

asym_sam3_correction_rms vs run
χ² / ndf 2.541e+04 / 30
p0 1432 ± 1.878
2200
2000
1800
1600
1400
1200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

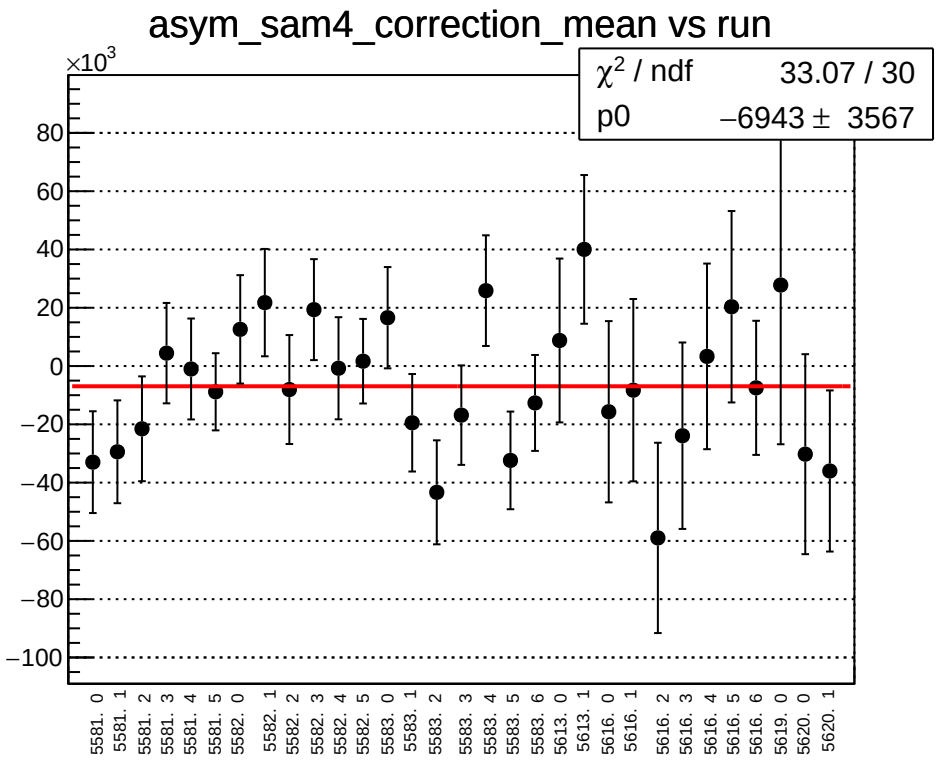

asym_sam3_mean vs run
×10^3
χ^2 / ndf 41.76 / 30
p0 3544 ± 2813
60
40
20
0
−20
−40
−60
−80
−100
−120
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 8.642
Std Dev 19.05
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 31
Mean −0.04203
Std Dev 1.16
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

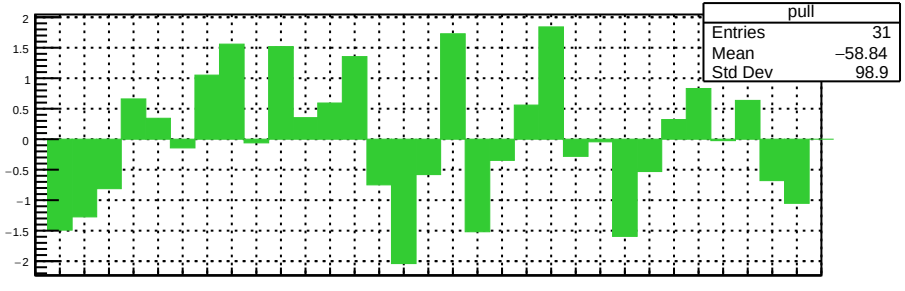

asym_sam3_rms vs run
χ² / ndf 4.121e+04 / 30
p0 1496 ± 1.989
3500
3000
2500
2000
1500
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

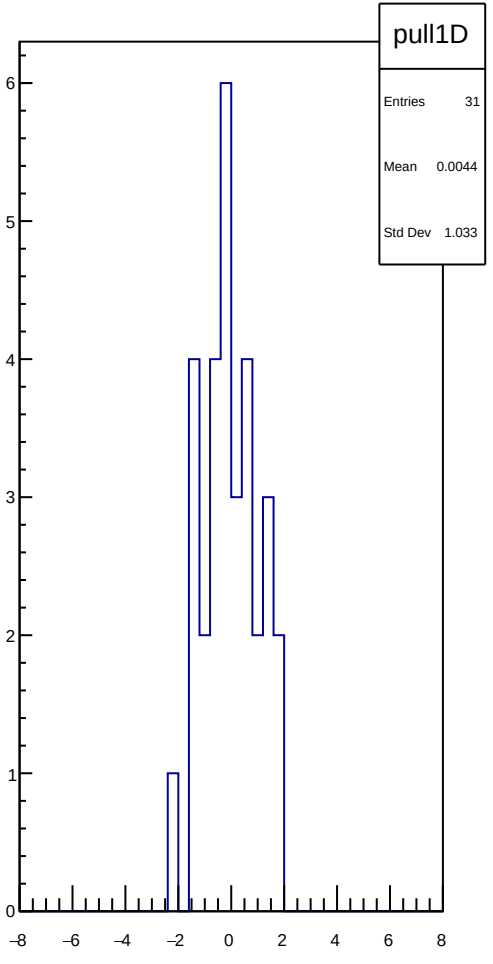

dit_asym_sam4_mean vs run
×10^3
χ² / ndf 37.22 / 30
p0 −323.2 ± 476.3
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 1.899
Std Dev 51.88
2
1
0
−1
−2
−3

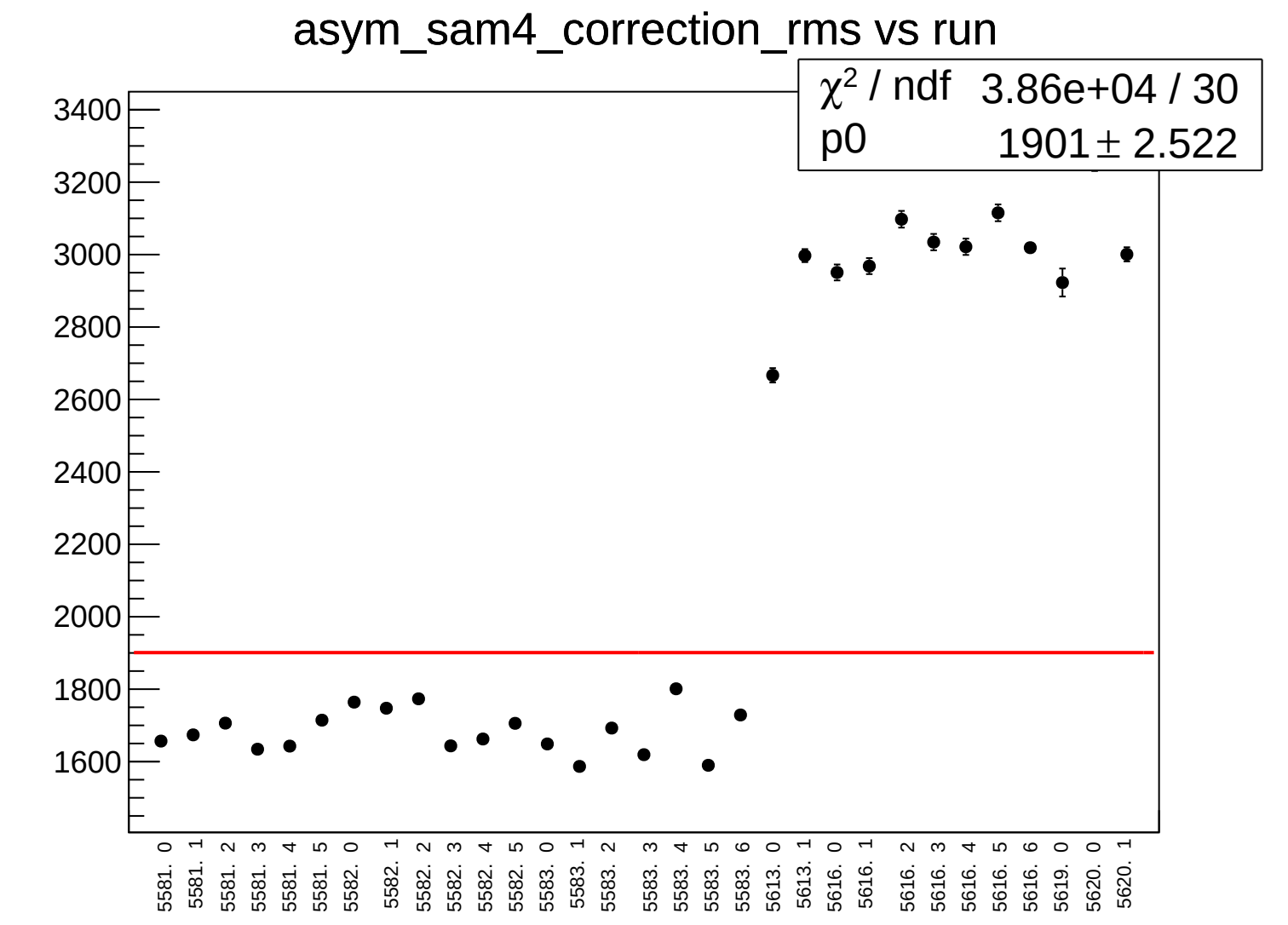

pull1D
Entries 31
Mean 0.009048
Std Dev 1.096
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

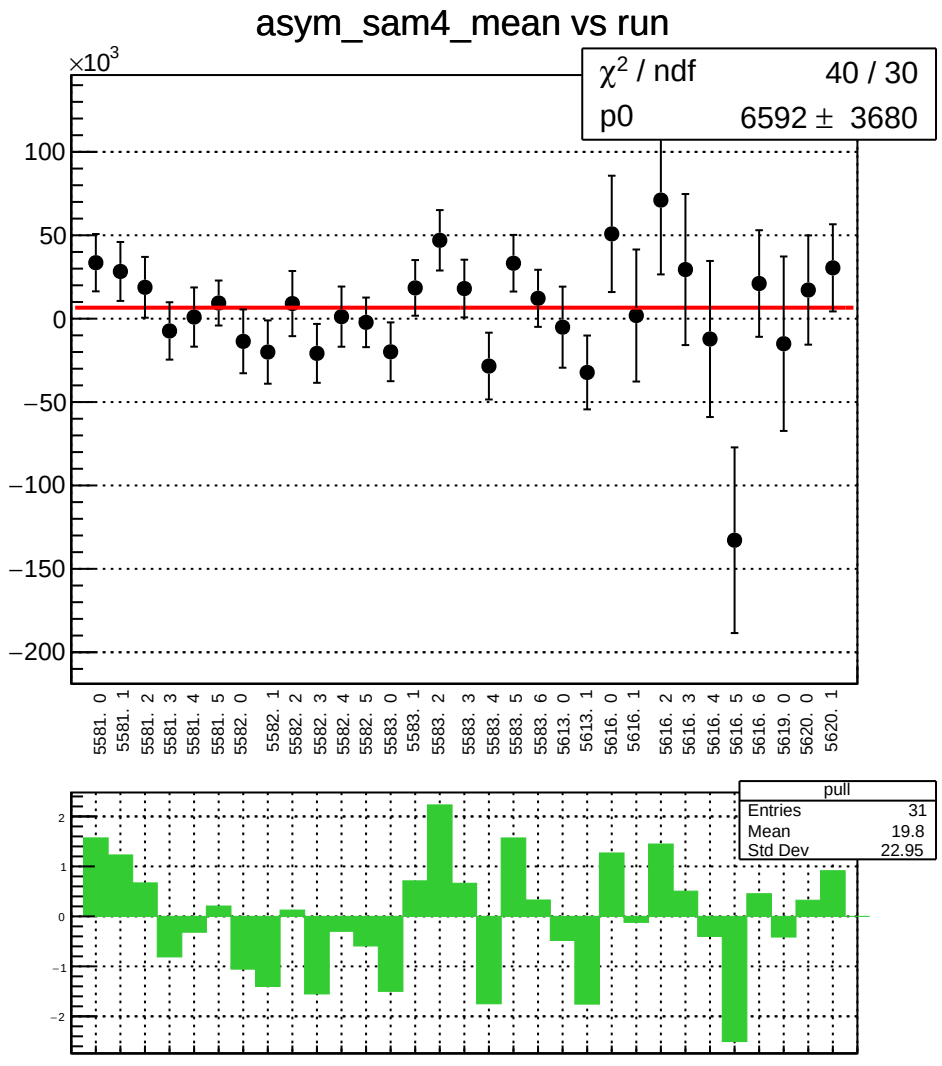

dit_asym_sam4_rms vs run
χ² / ndf 1.622e+05 / 30
p0 224.5 ± 0.3368
3500
3000
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

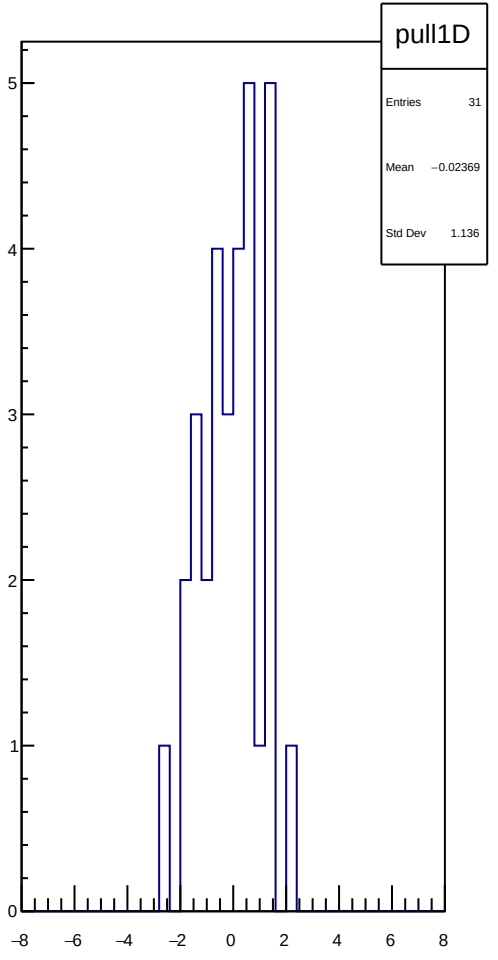

asym_sam4_correction_mean vs run
×10^3
χ^2 / ndf 33.07 / 30
p0 −6943 ± 3567
80
60
40
20
0
−20
−40
−60
−80
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

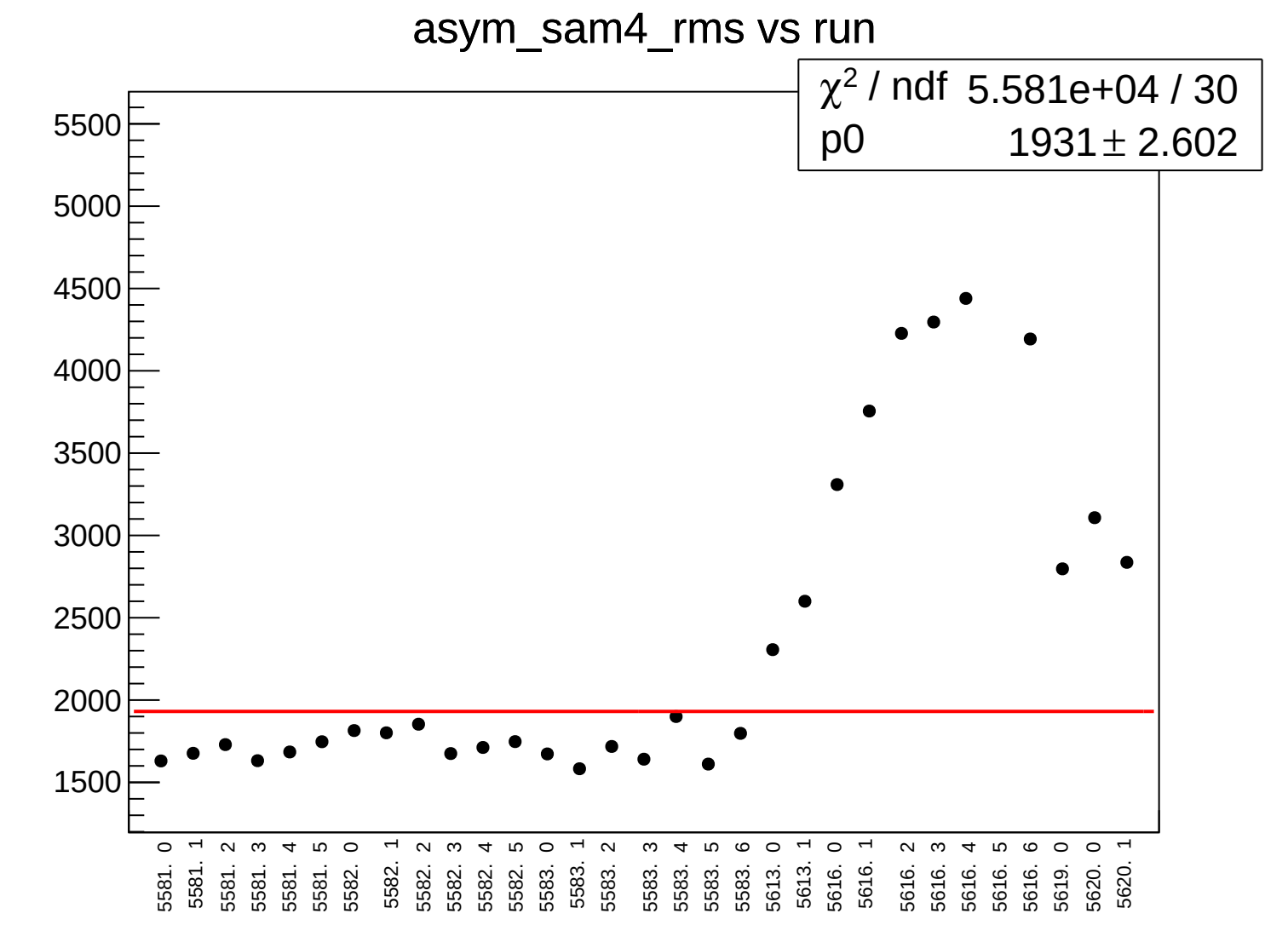

pull
Entries 31
Mean −58.84
Std Dev 98.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

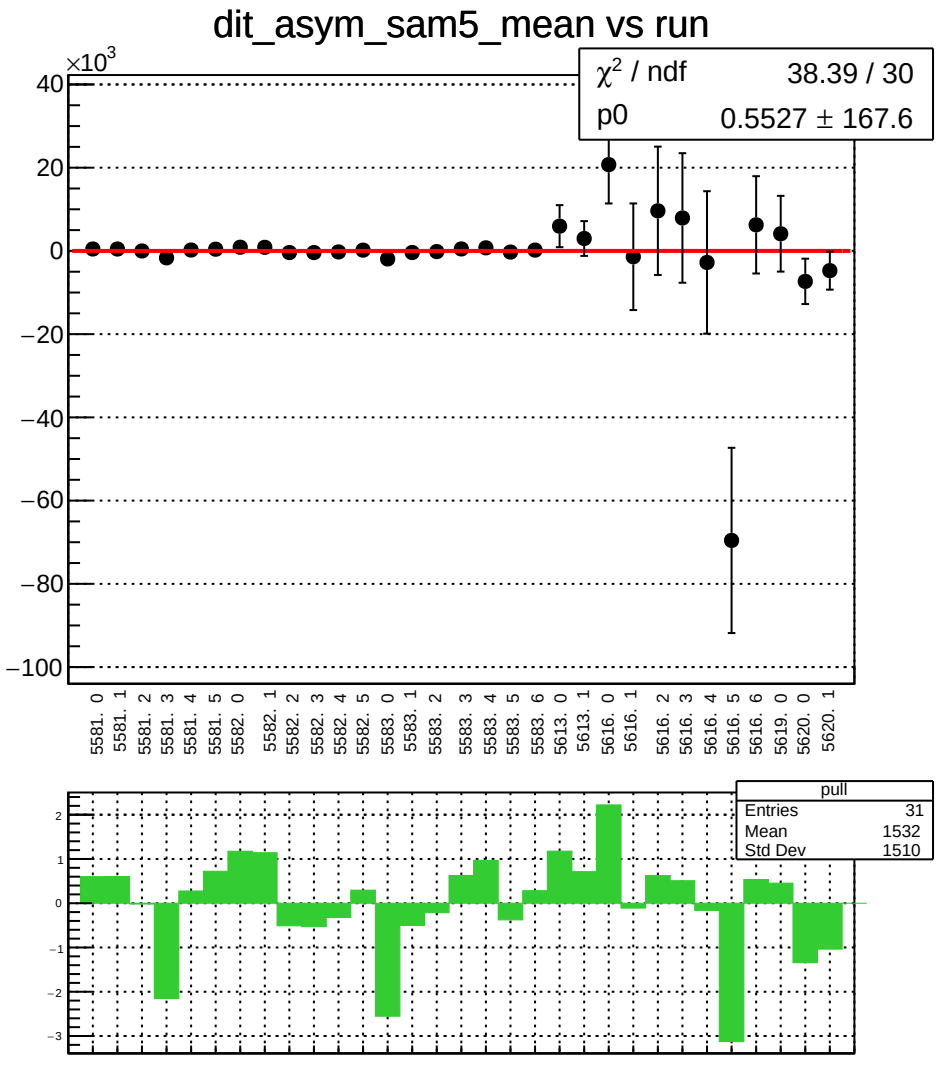

pull1D
Entries 31
Mean 0.0044
Std Dev 1.033
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

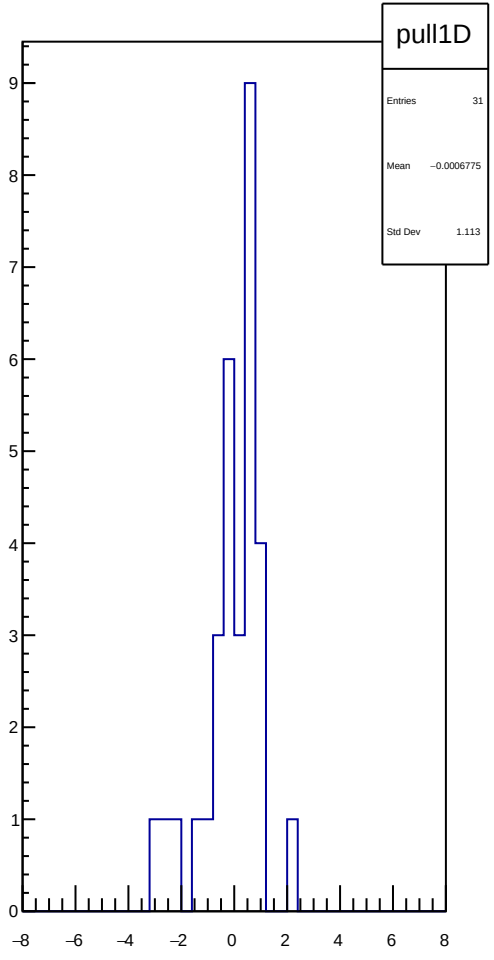

asym_sam4_correction_rms vs run
χ² / ndf 3.86e+04 / 30
p0 1901 ± 2.522
3400
3200
3000
2800
2600
2400
2200
2000
1800
1600
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

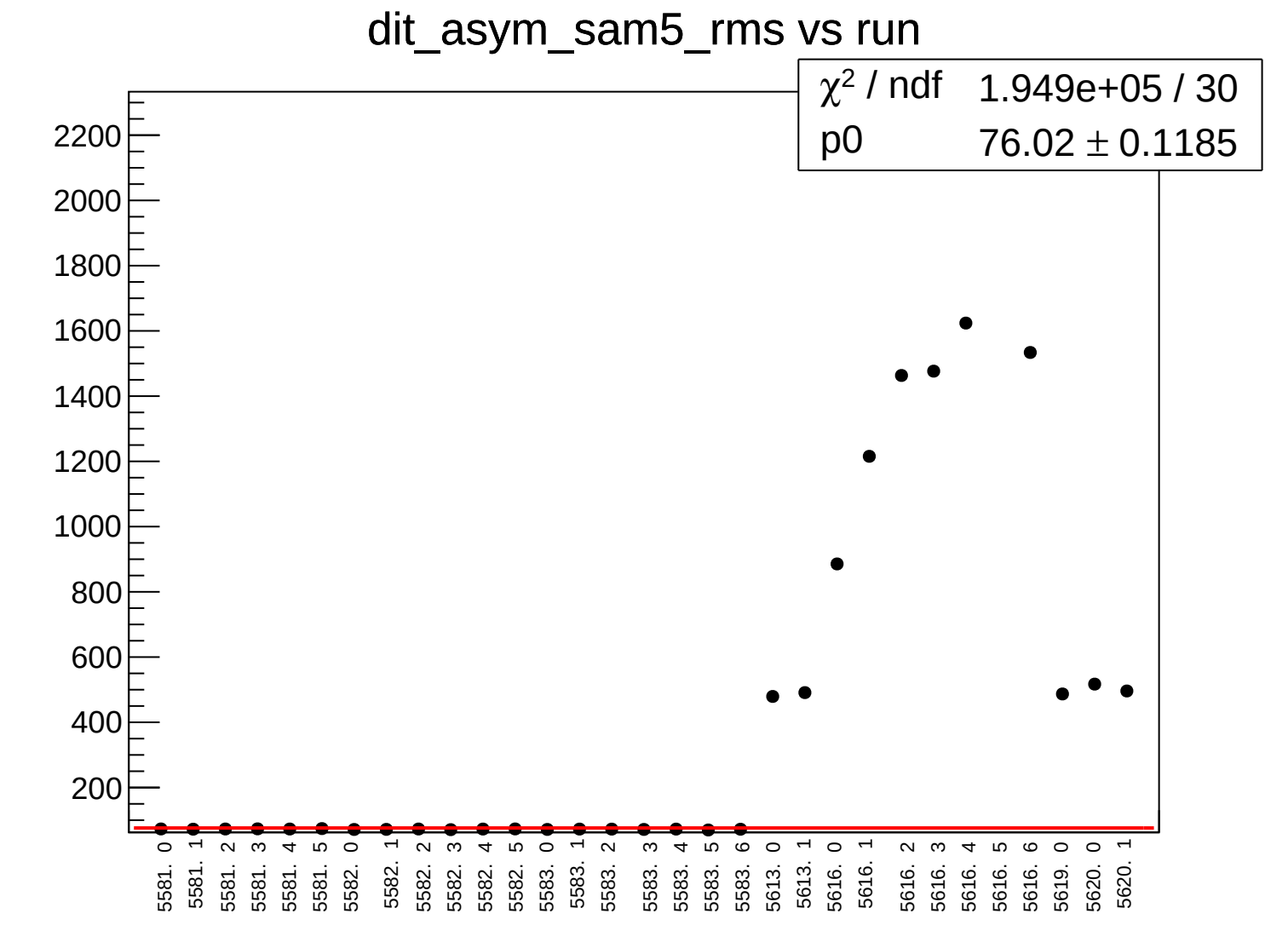

asym_sam4_mean vs run
×10^3
χ² / ndf 40 / 30
p0 6592 ± 3680
100
50
0
−50
−100
−150
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 19.8
Std Dev 22.95
2
1
0
−1
−2

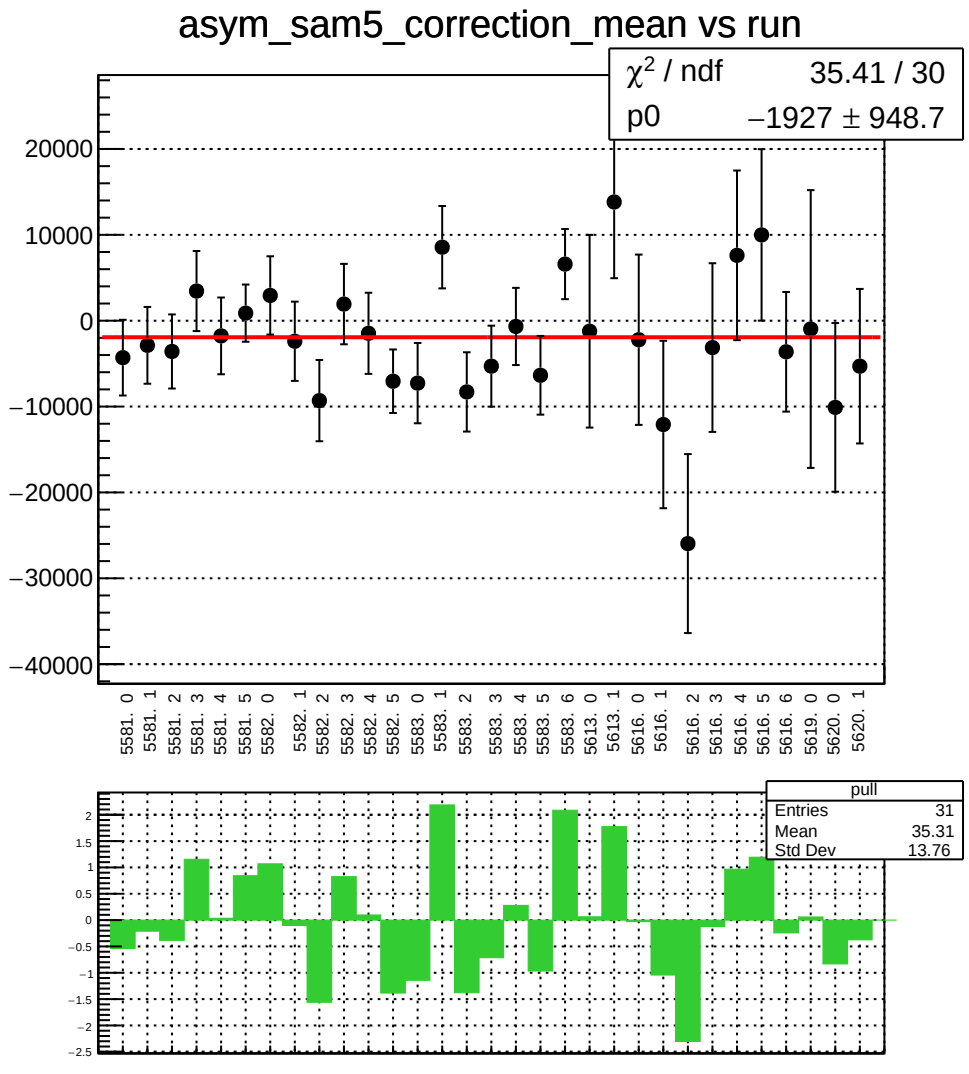

pull1D
Entries 31
Mean −0.02369
Std Dev 1.136
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

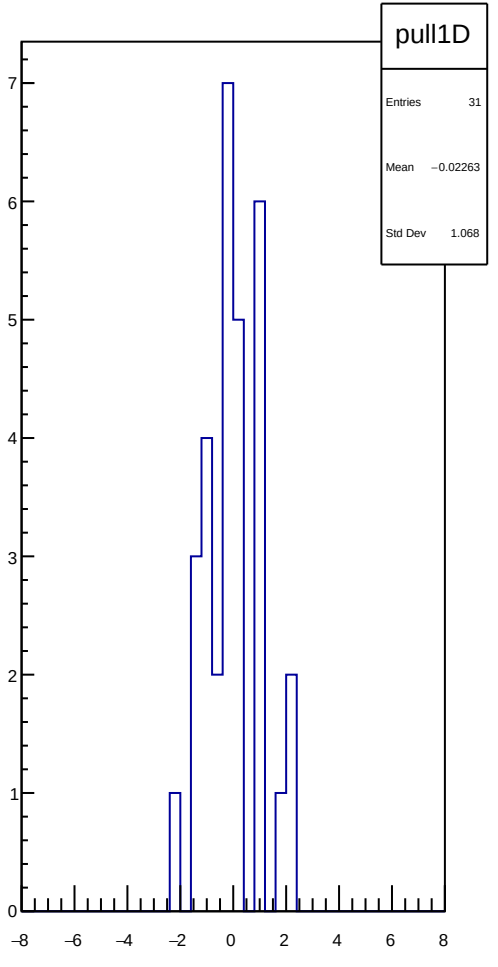

asym_sam4_rms vs run
χ² / ndf 5.581e+04 / 30
p0 1931 ± 2.602
5500
5000
4500
4000
3500
3000
2500
2000
1500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

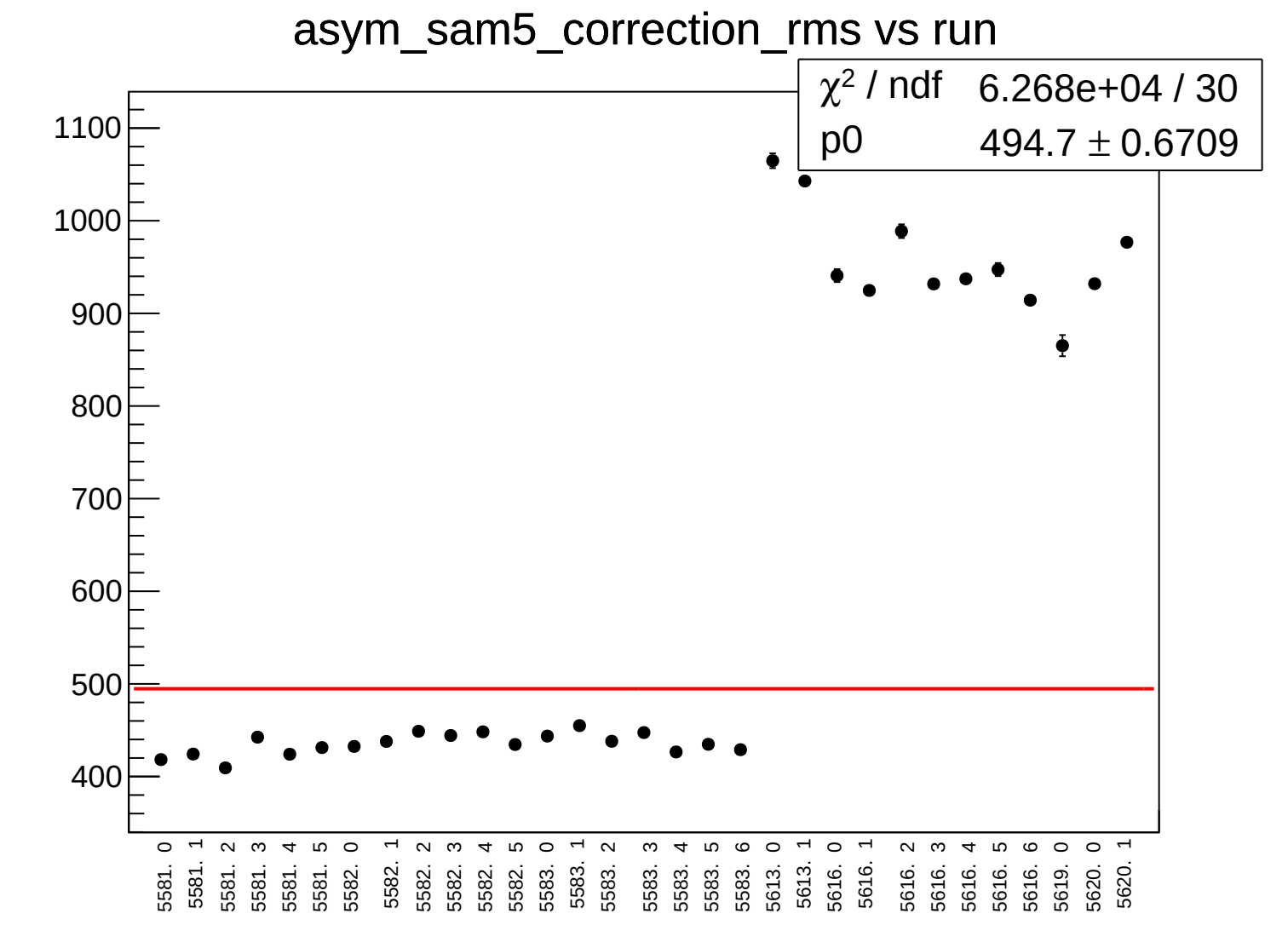

dit_asym_sam5_mean vs run
×10^3
χ² / ndf 38.39 / 30
p0 0.5527 ± 167.6
40
20
0
−20
−40
−60
−80
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 1532
Std Dev 1510
2
1
0
−1
−2
−3

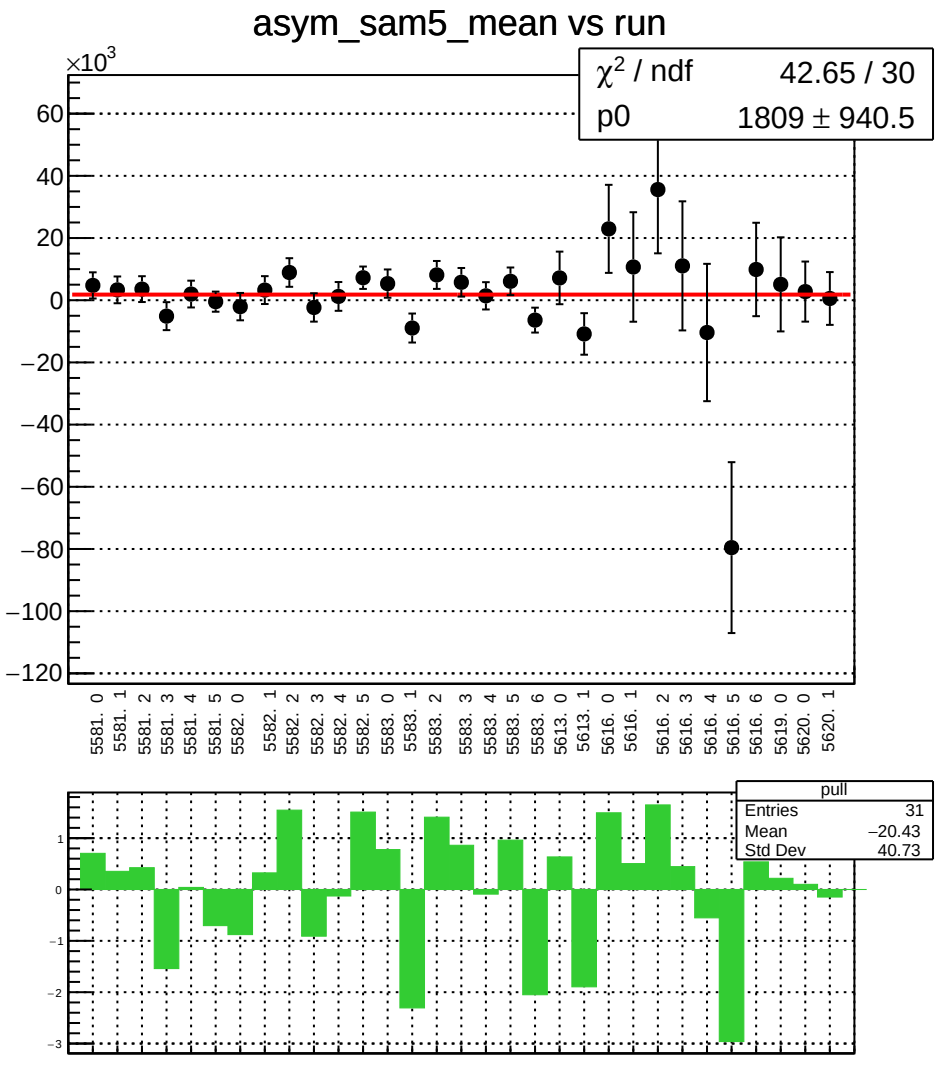

pull1D
Entries 31
Mean −0.0006775
Std Dev 1.113
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

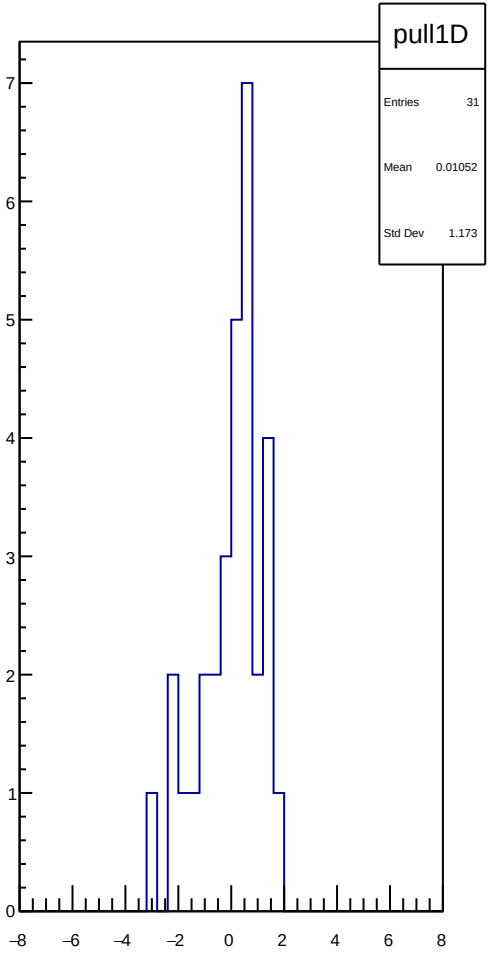

dit_asym_sam5_rms vs run
χ² / ndf 1.949e+05 / 30
p0 76.02 ± 0.1185
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

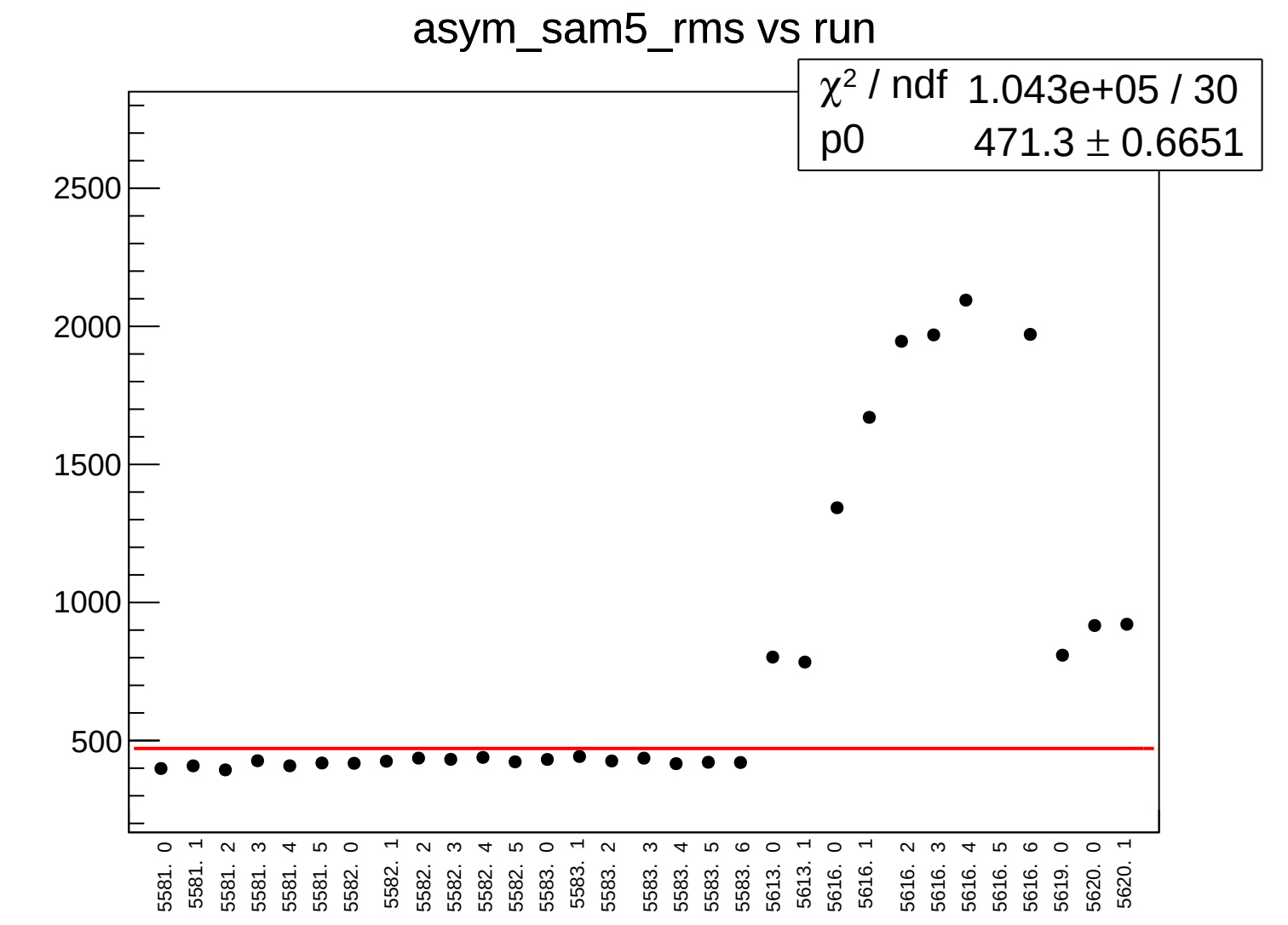

asym_sam5_correction_mean vs run
χ² / ndf 35.41 / 30
p0 −1927 ± 948.7
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 35.31
Std Dev 13.76
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

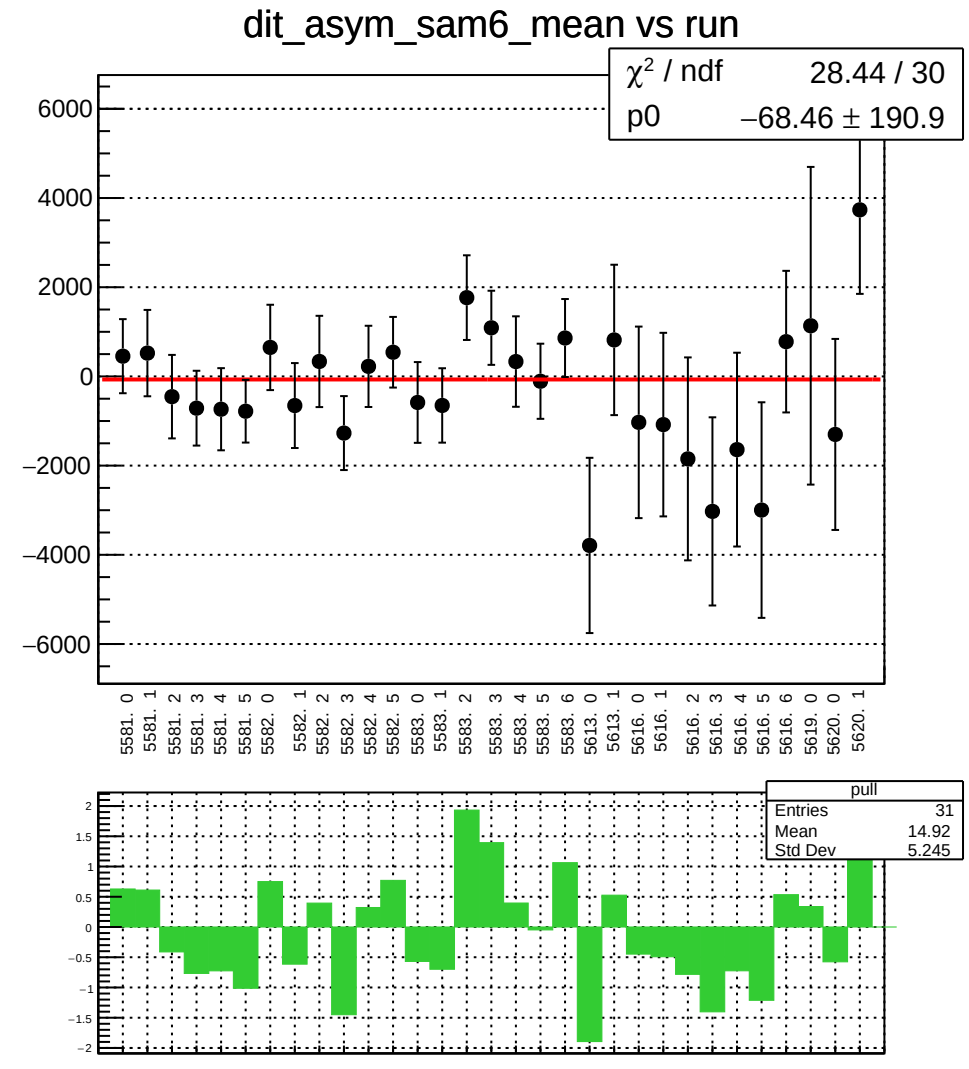

pull1D
Entries 31
Mean −0.02263
Std Dev 1.068
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

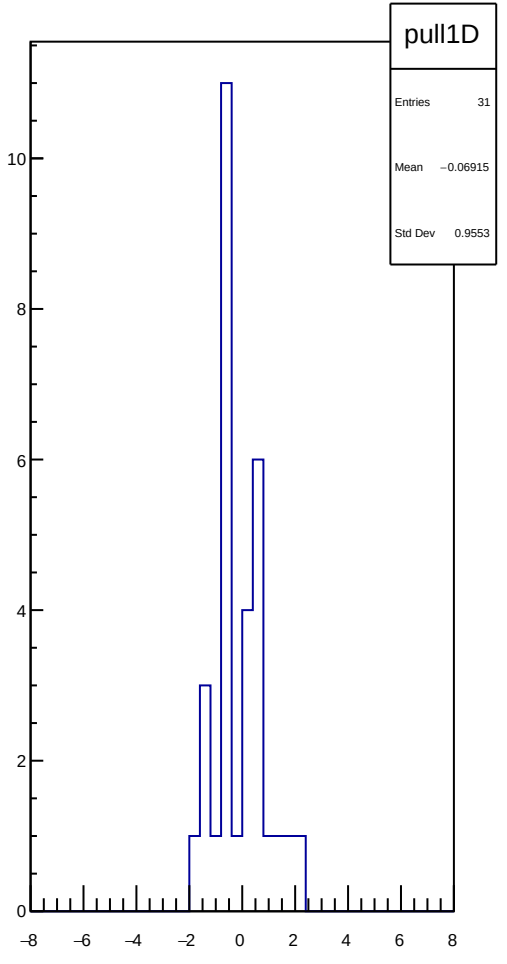

asym_sam5_correction_rms vs run
χ² / ndf 6.268e+04 / 30
p0 494.7 ± 0.6709
1100
1000
900
800
700
600
500
400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

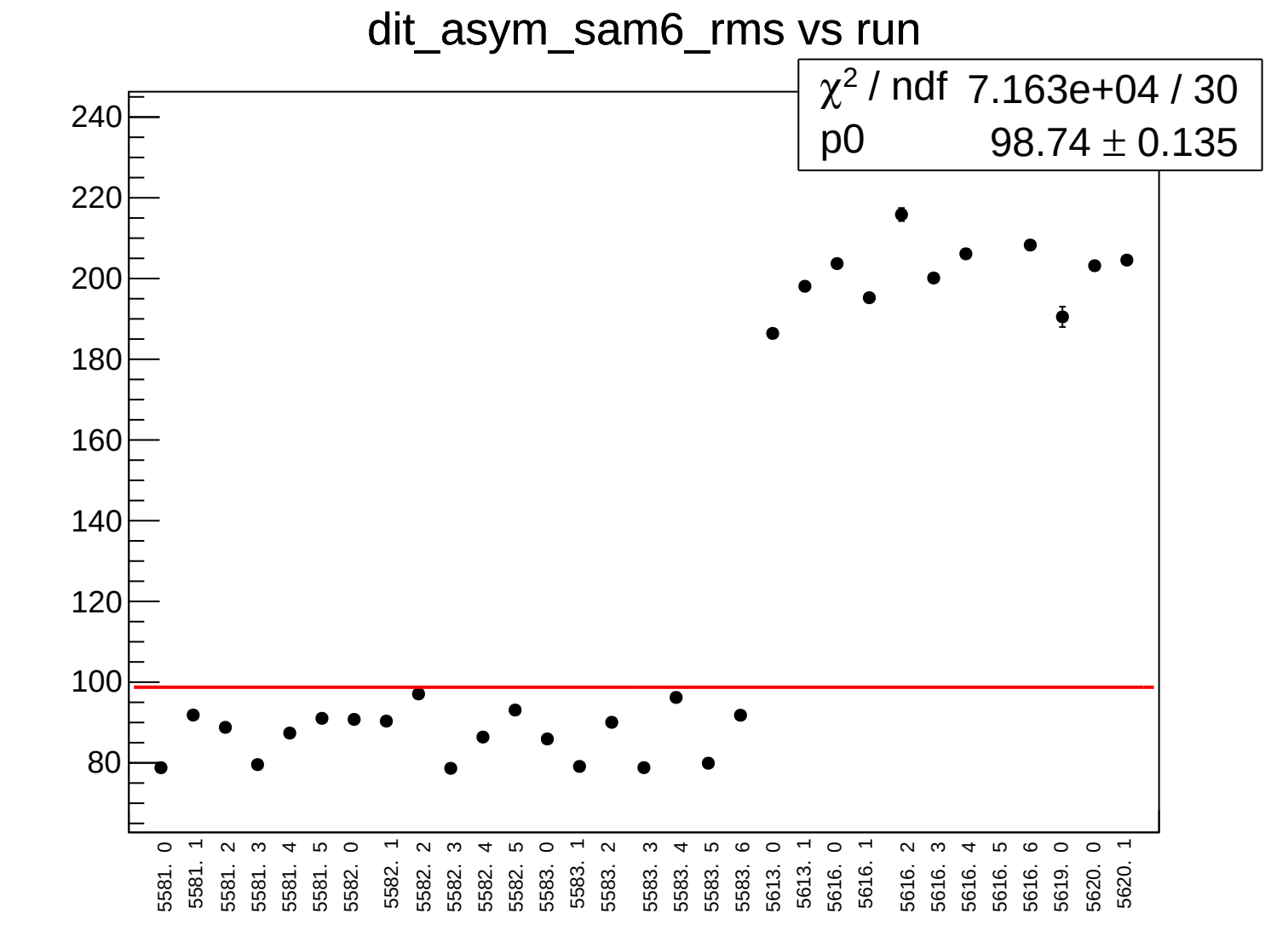

asym_sam5_mean vs run
×10^3
χ^2 / ndf 42.65 / 30
p0 1809 ± 940.5
60
40
20
0
−20
−40
−60
−80
−100
−120
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −20.43
Std Dev 40.73
1
0
−1
−2
−3

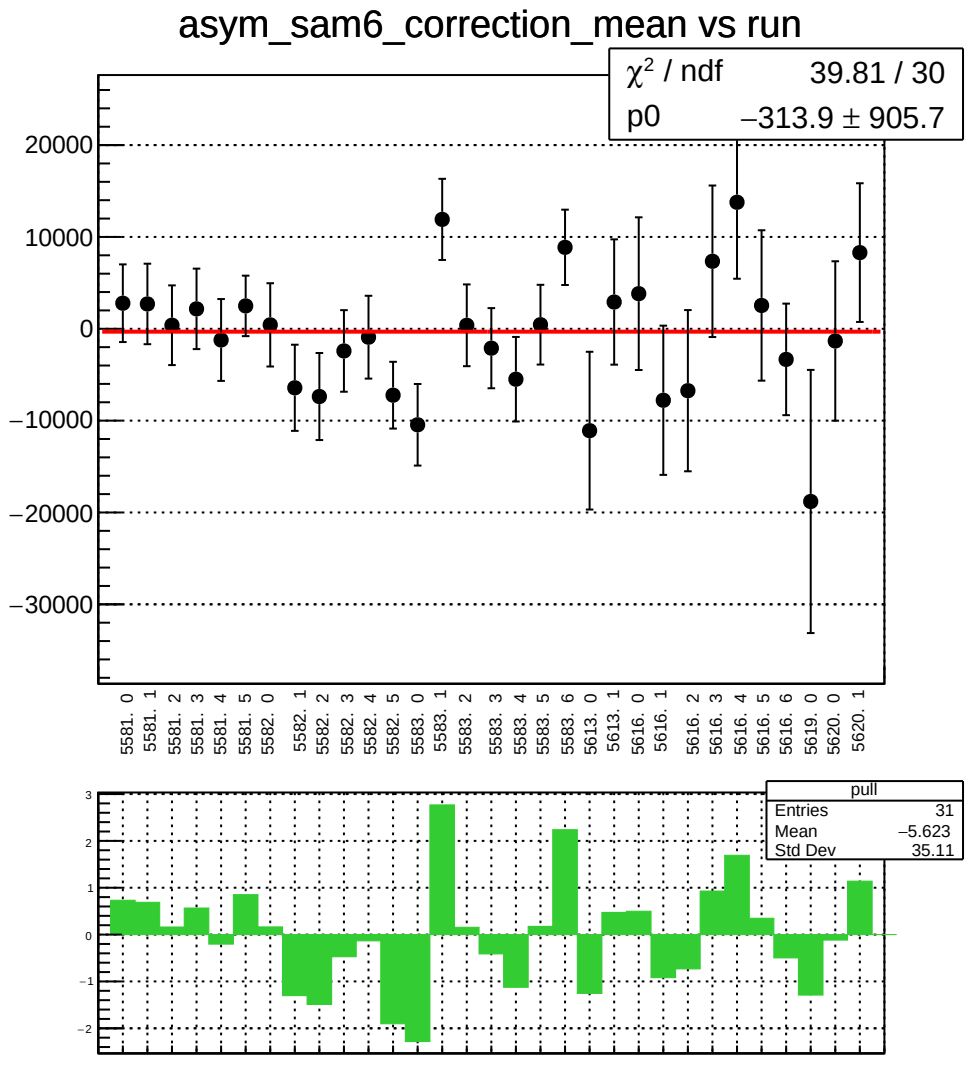

pull1D
Entries 31
Mean 0.01052
Std Dev 1.173
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

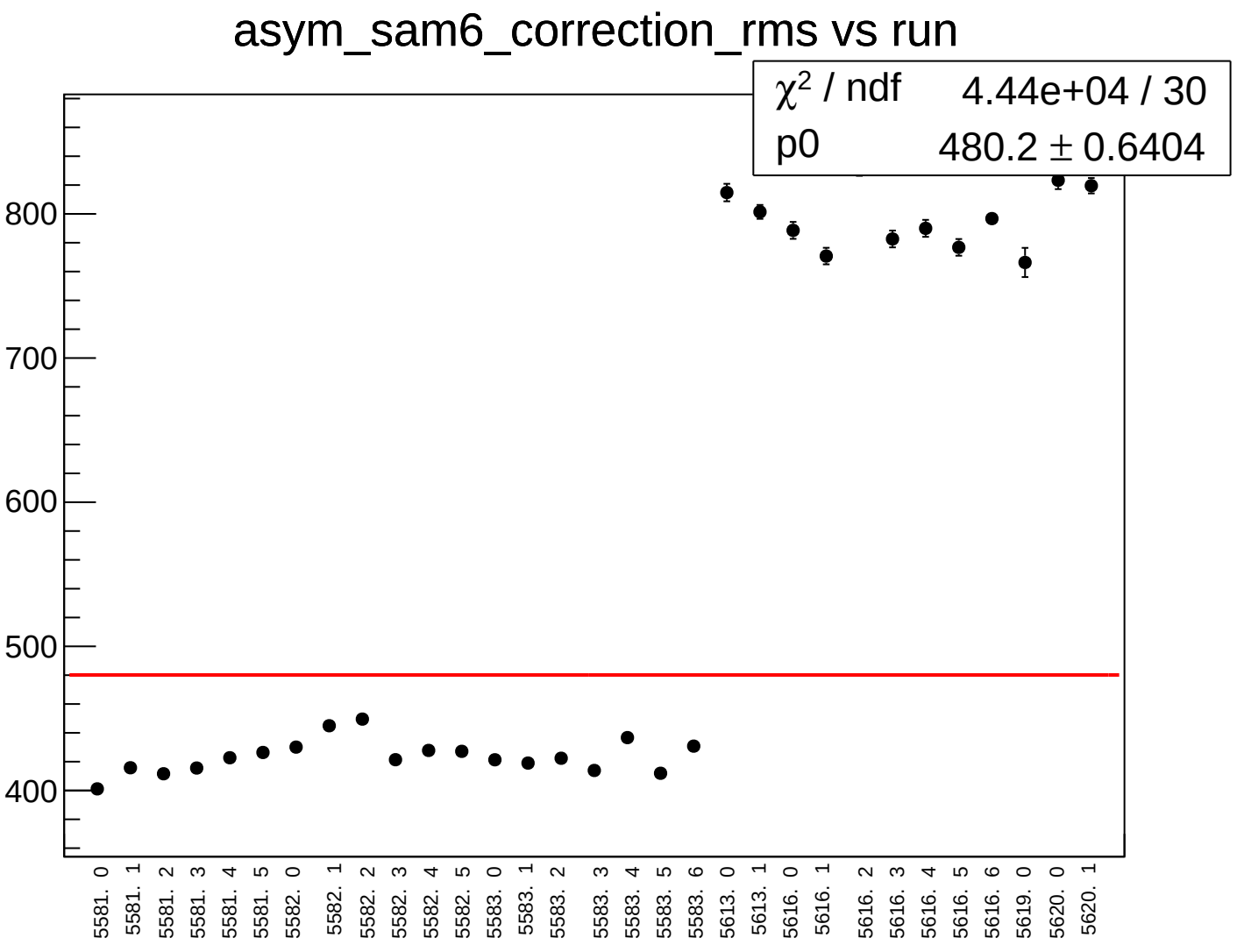

asym_sam5_rms vs run
χ² / ndf 1.043e+05 / 30
p0 471.3 ± 0.6651
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

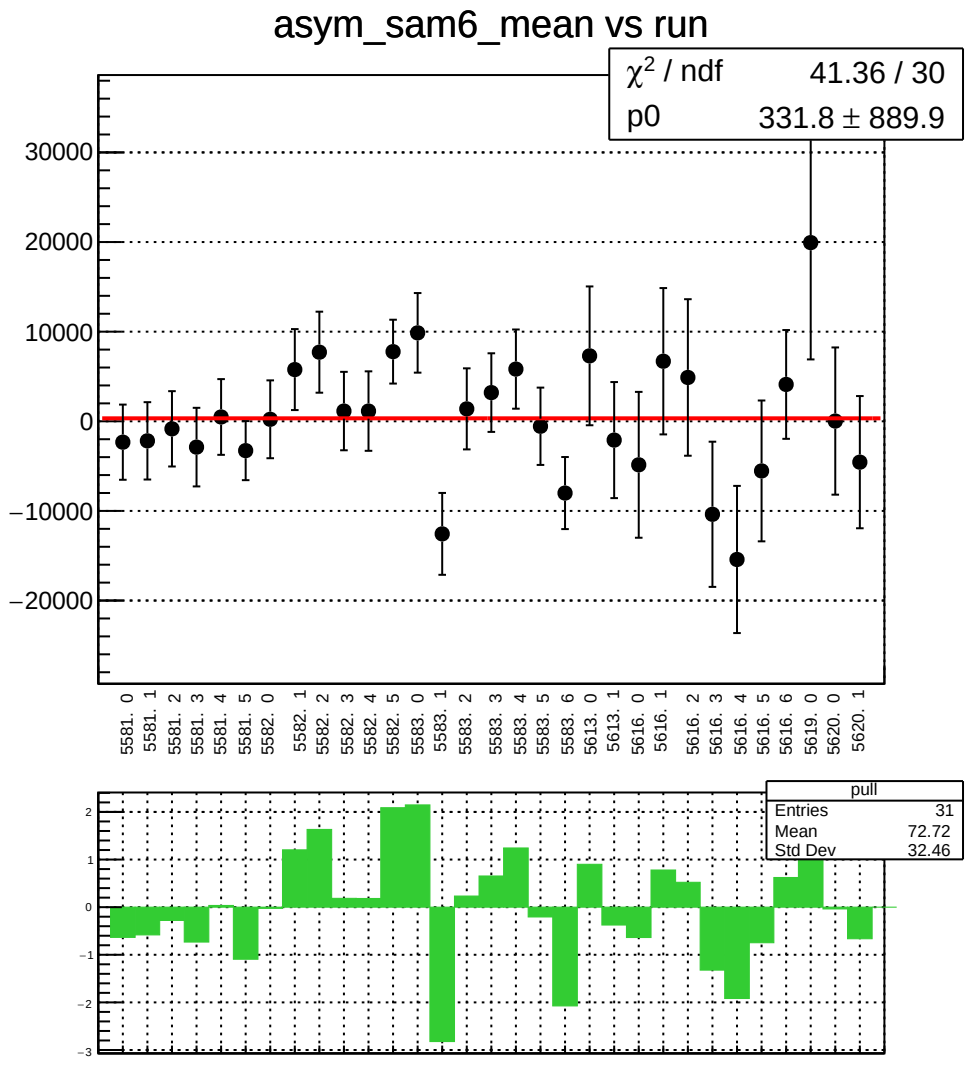

dit_asym_sam6_mean vs run
χ² / ndf 28.44 / 30
p0 −68.46 ± 190.9
6000
4000
2000
0
−2000
−4000
−6000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 14.92
Std Dev 5.245
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

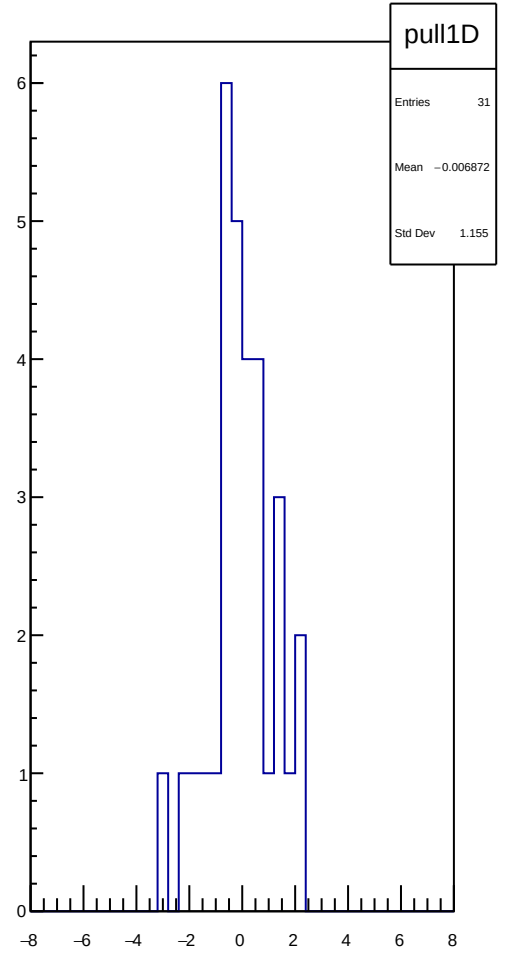

pull1D
Entries 31
Mean −0.06915
Std Dev 0.9553
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

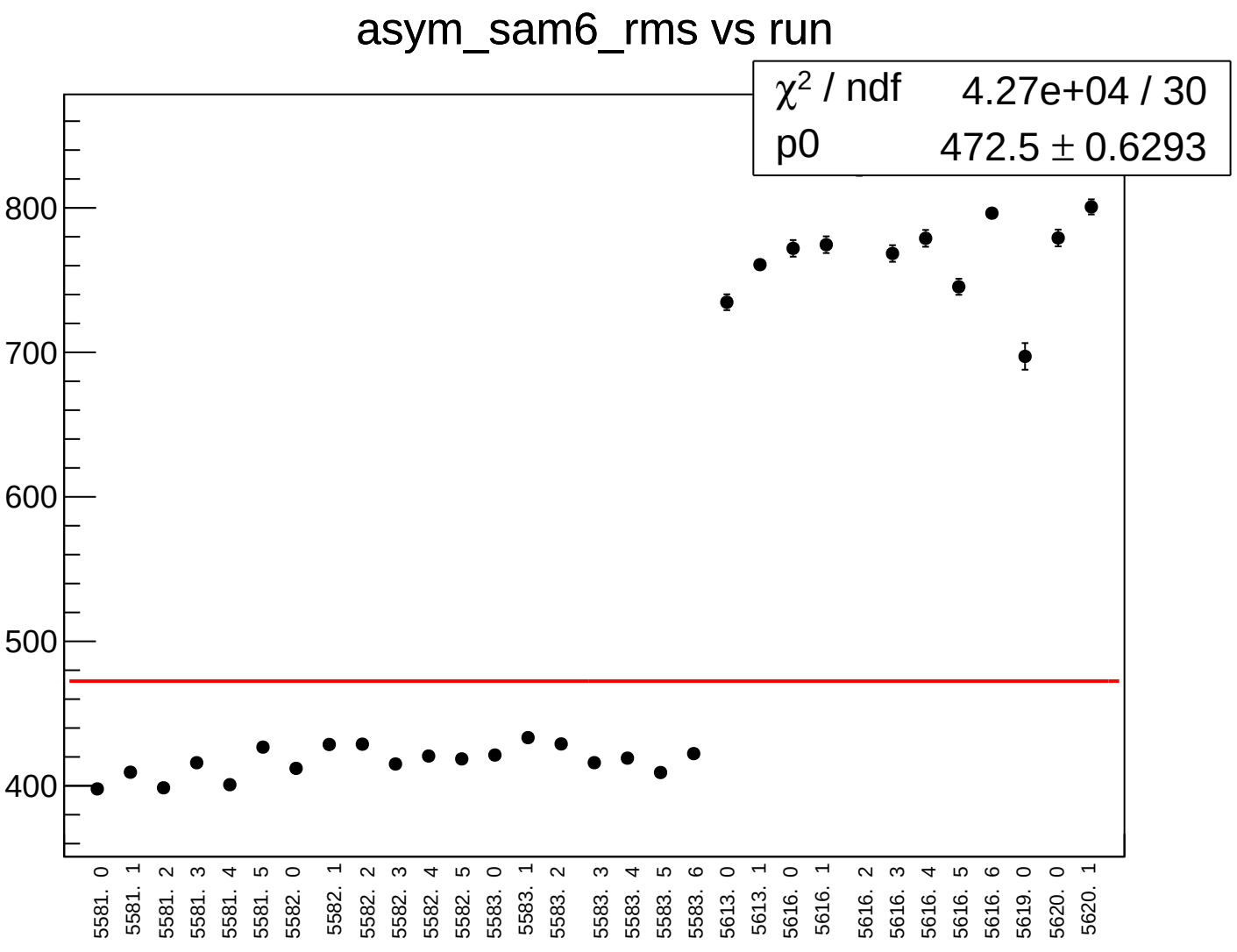

dit_asym_sam6_rms vs run
χ² / ndf 7.163e+04 / 30
p0 98.74 ± 0.135
240
220
200
180
160
140
120
100
80
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

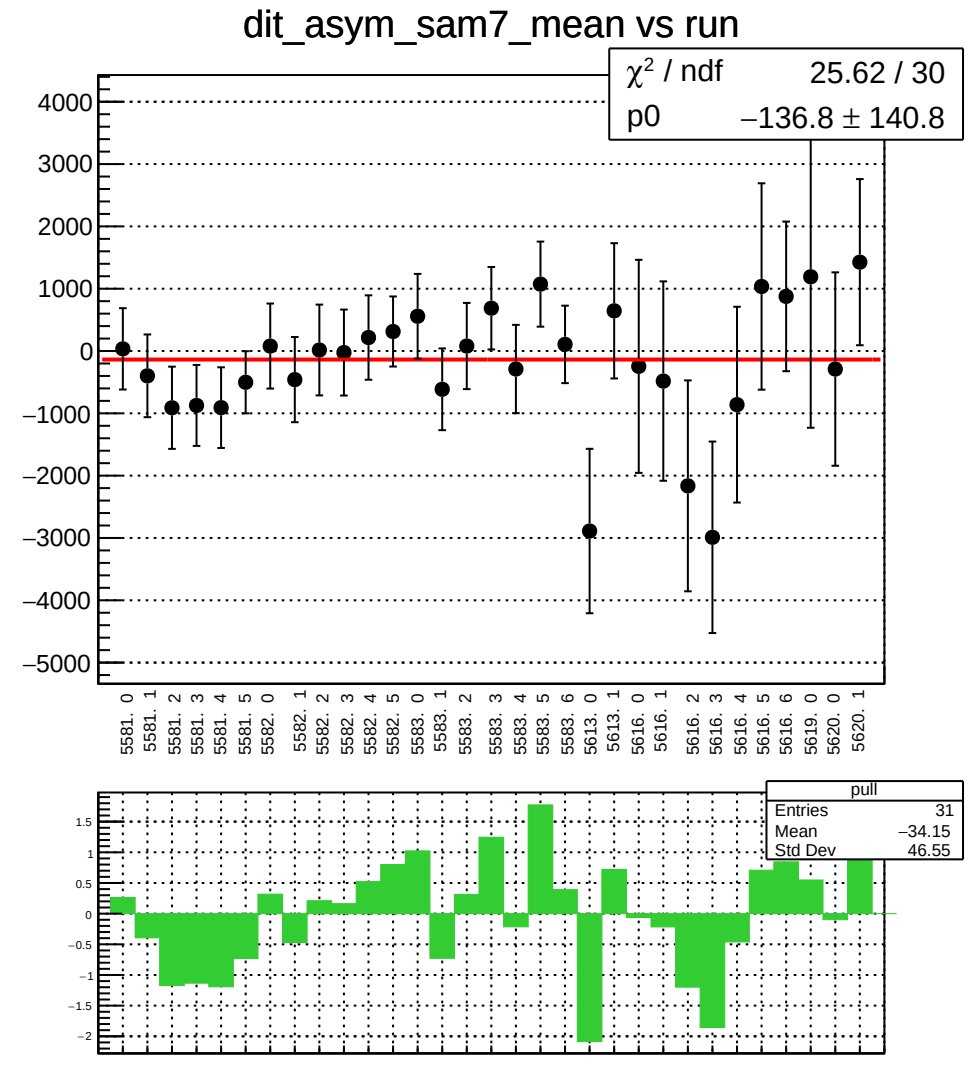

asym_sam6_correction_mean vs run
χ² / ndf 39.81 / 30
p0 −313.9 ± 905.7
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −5.623
Std Dev 35.11
3
2
1
0
−1
−2
pull1D
Entries 31
Mean −0.01781
Std Dev 1.133
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

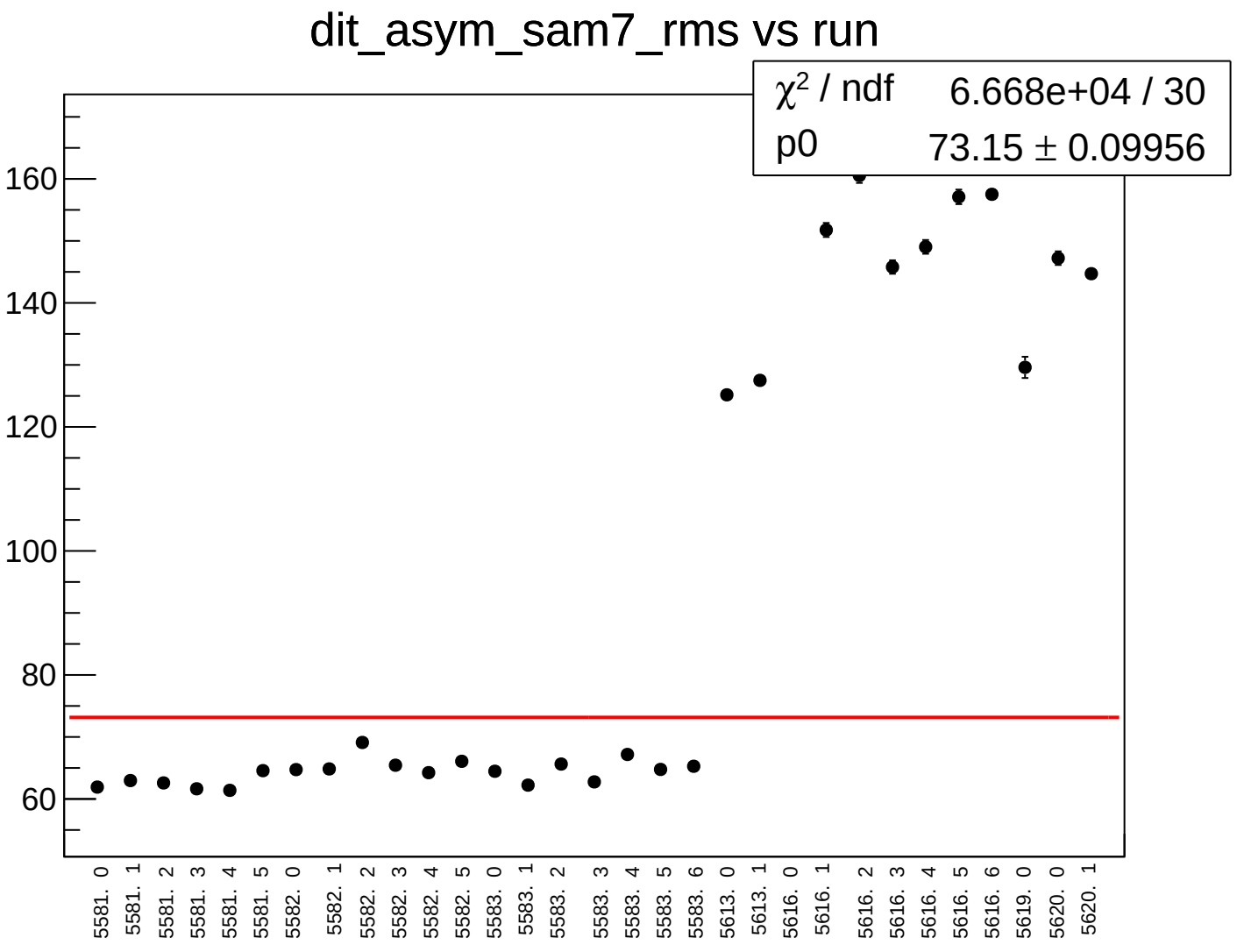

asym_sam6_correction_rms vs run
χ² / ndf 4.44e+04 / 30
p0 480.2 ± 0.6404
800
700
600
500
400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

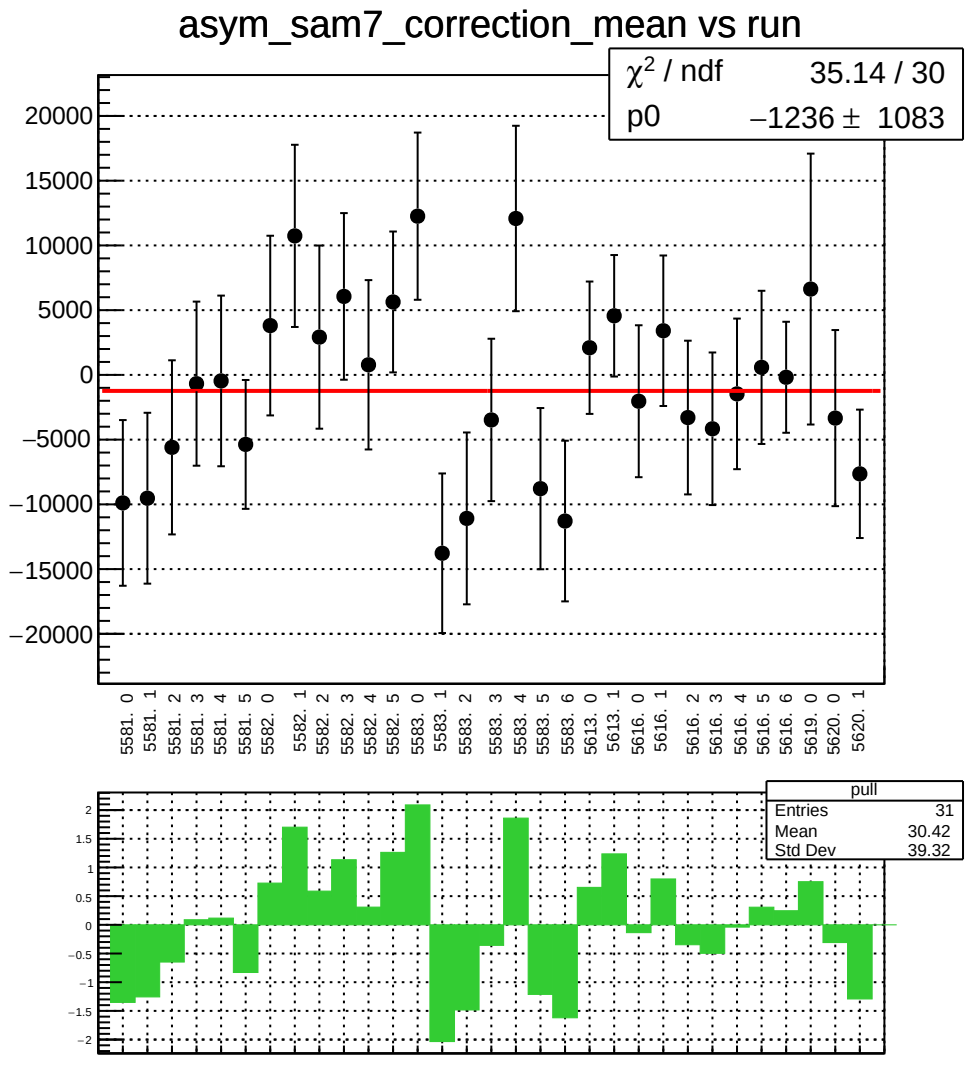

asym_sam6_mean vs run
χ² / ndf 41.36 / 30
p0 331.8 ± 889.9
30000
20000
10000
0
−10000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 72.72
Std Dev 32.46
2
1
0
−1
−2
−3

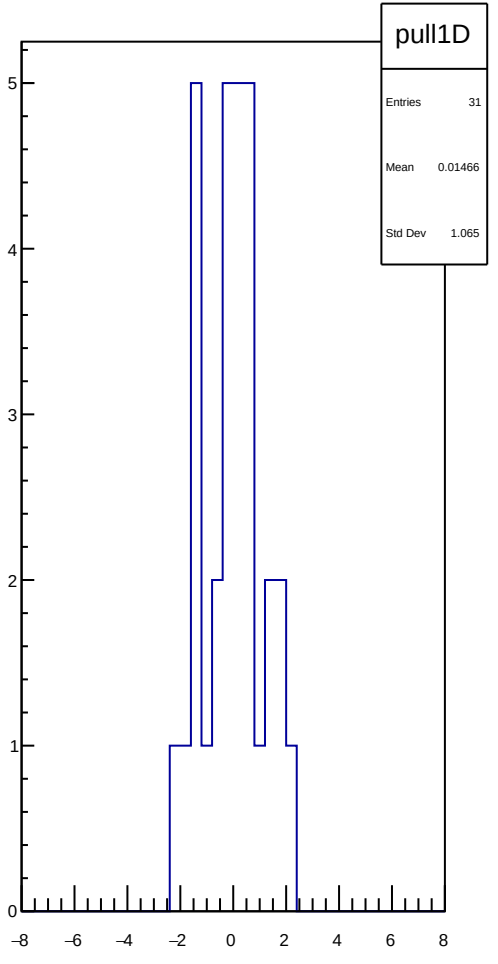

pull1D
Entries 31
Mean −0.006872
Std Dev 1.155
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

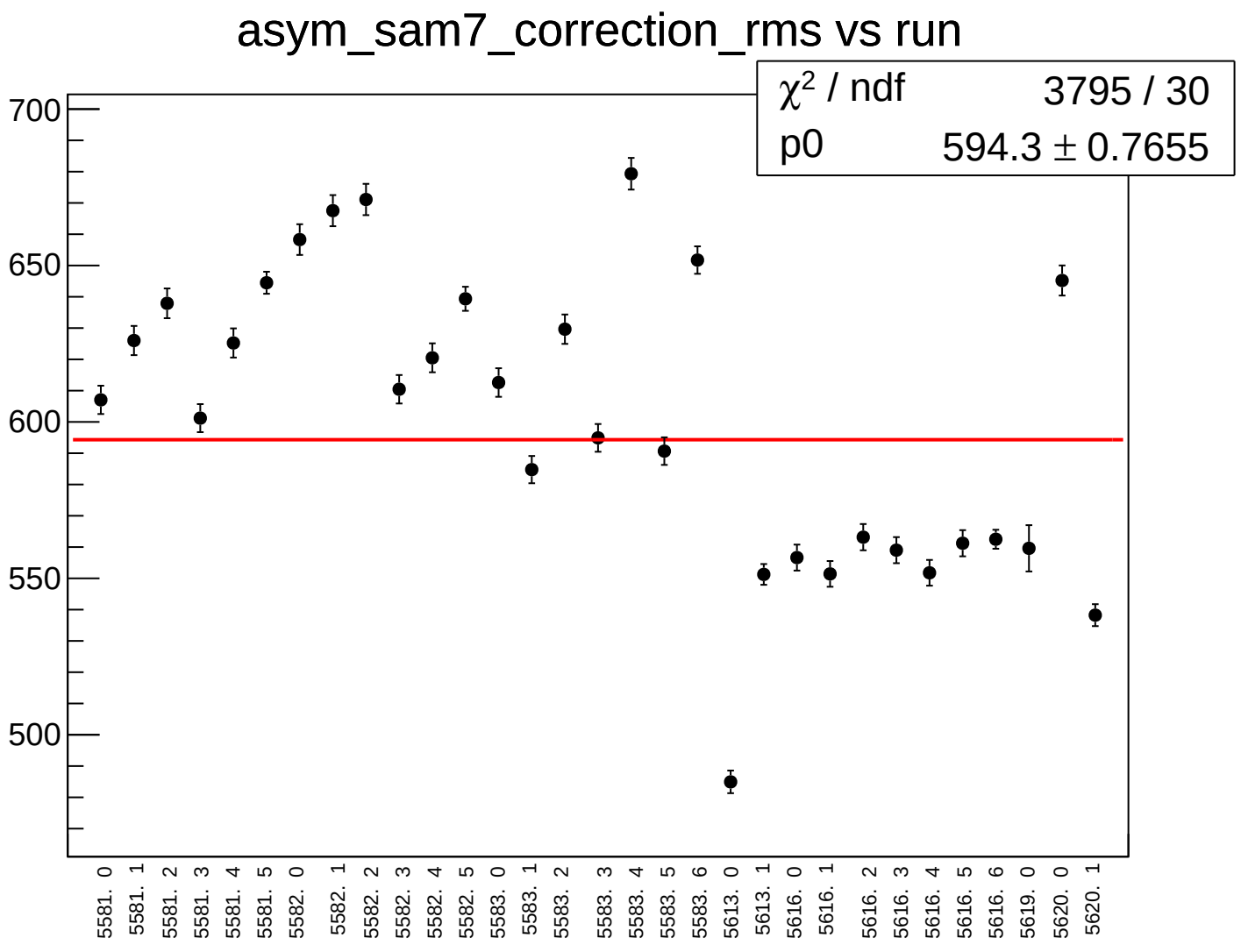

asym_sam6_rms vs run
χ² / ndf 4.27e+04 / 30
p0 472.5 ± 0.6293
800
700
600
500
400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

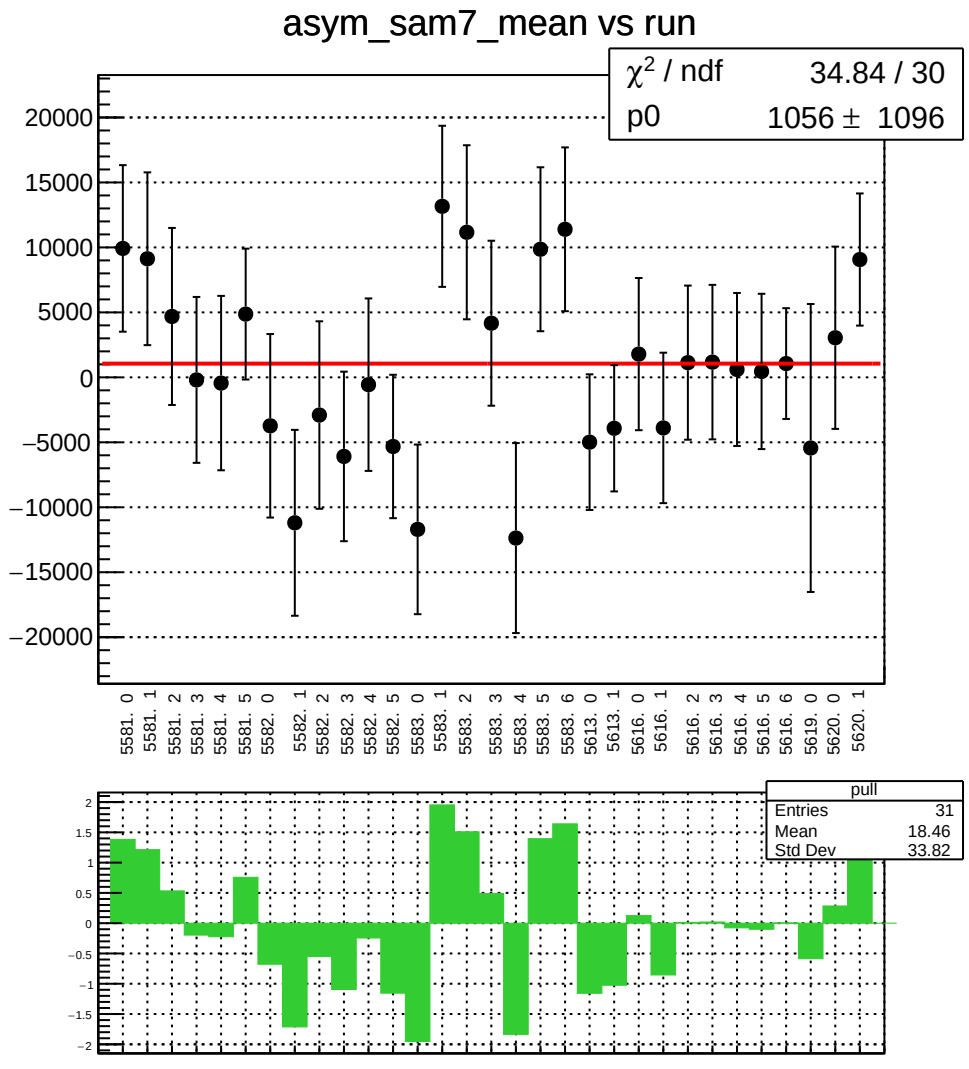

dit_asym_sam7_mean vs run
χ² / ndf 25.62 / 30
p0 −136.8 ± 140.8
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −34.15
Std Dev 46.55
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.03236
Std Dev 0.9086
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

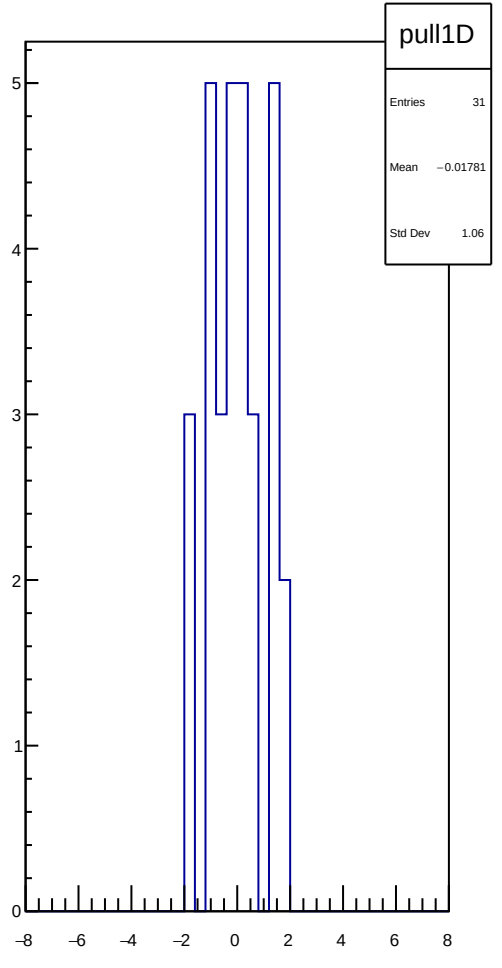

dit_asym_sam7_rms vs run
χ² / ndf 6.668e+04 / 30
p0 73.15 ± 0.09956
160
140
120
100
80
60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

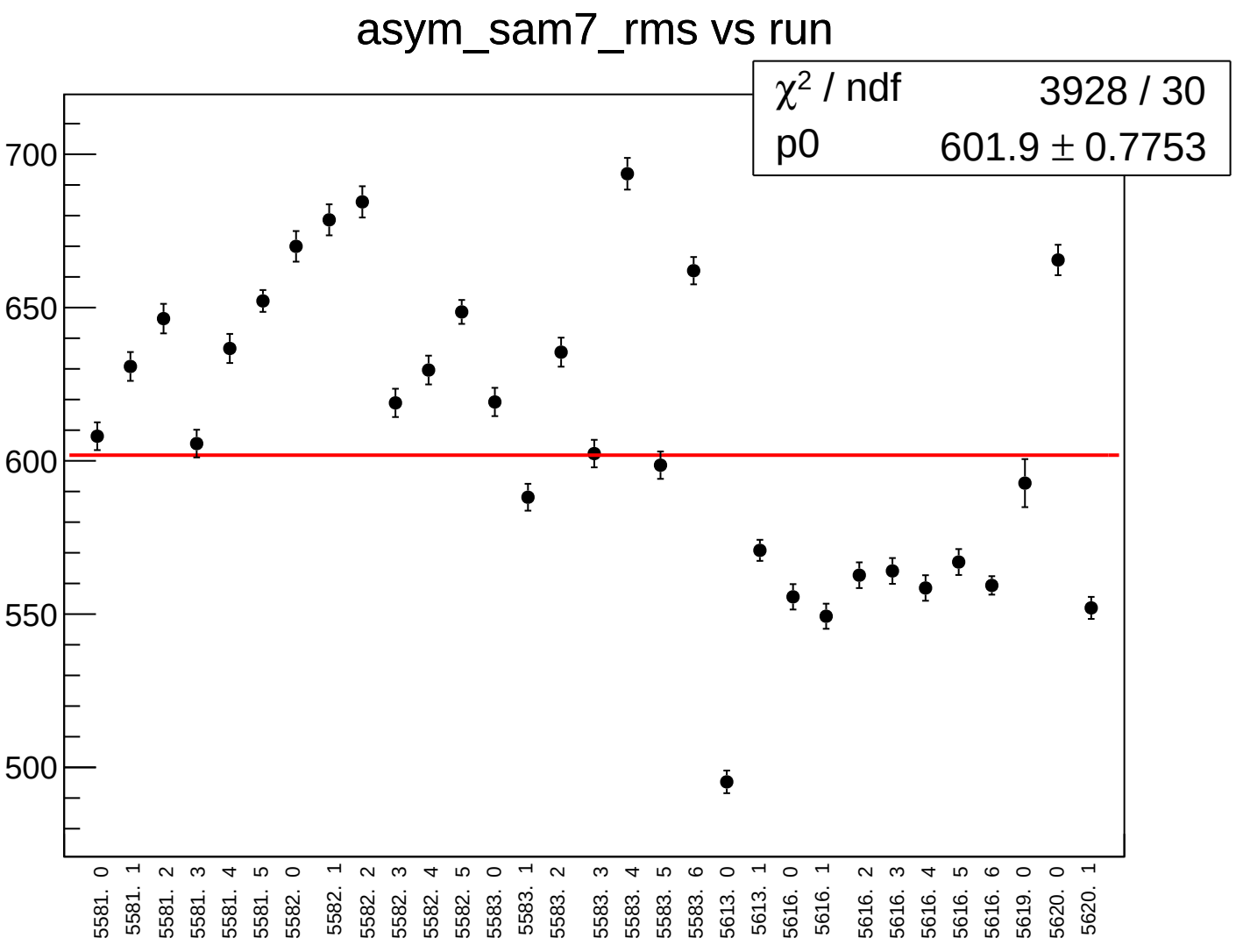

asym_sam7_correction_mean vs run
χ² / ndf 35.14 / 30
p0 −1236 ± 1083
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 30.42
Std Dev 39.32
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

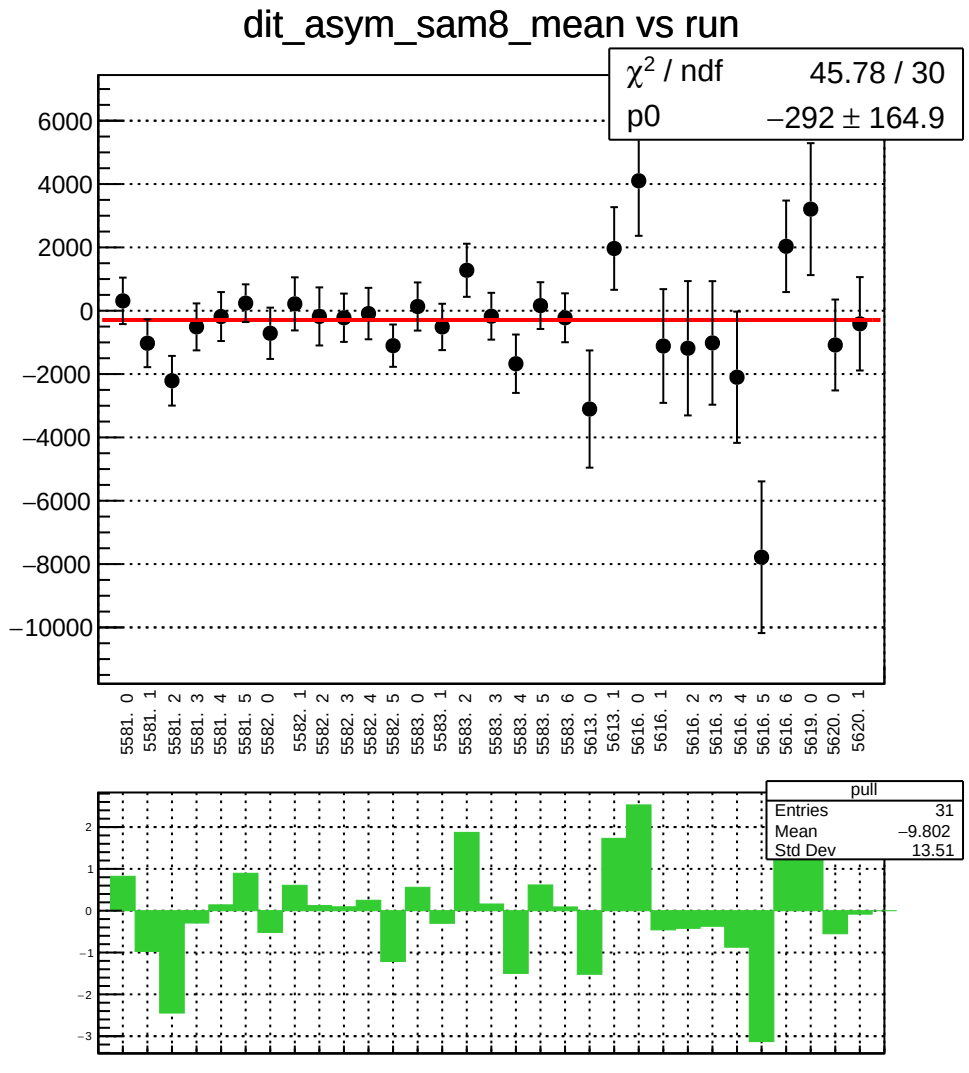

pull1D
Entries 31
Mean 0.01466
Std Dev 1.065
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

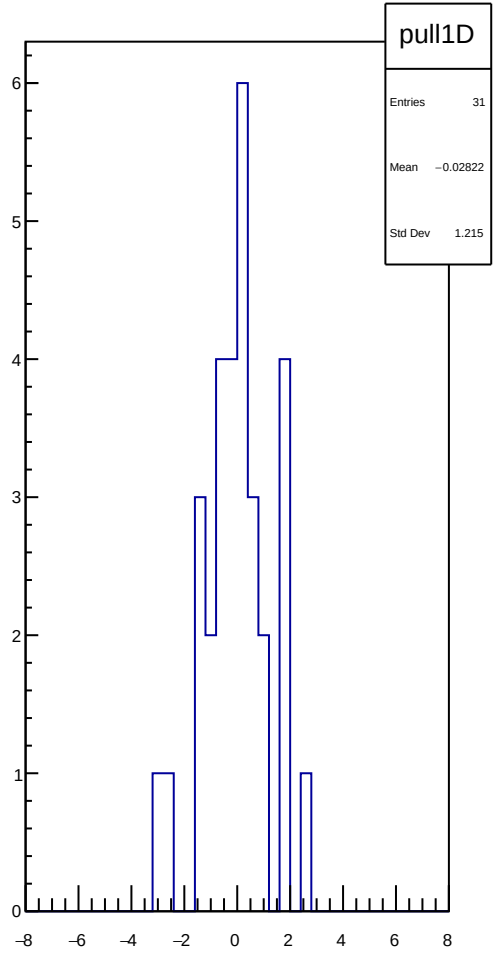

asym_sam7_correction_rms vs run
χ² / ndf 3795 / 30
p0 594.3 ± 0.7655
700
650
600
550
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

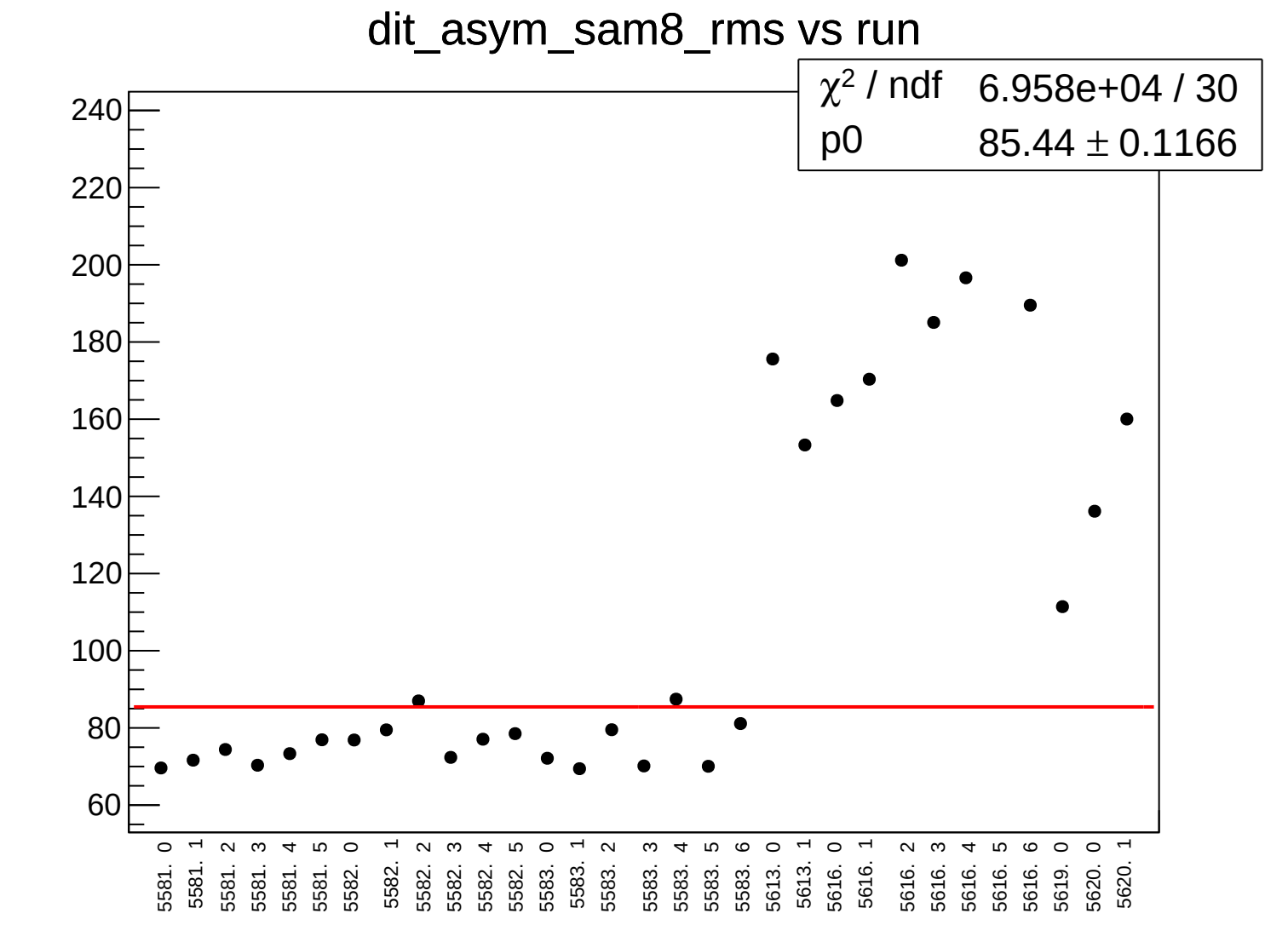

asym_sam7_mean vs run
χ² / ndf 34.84 / 30
p0 1056 ± 1096
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 18.46
Std Dev 33.82
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

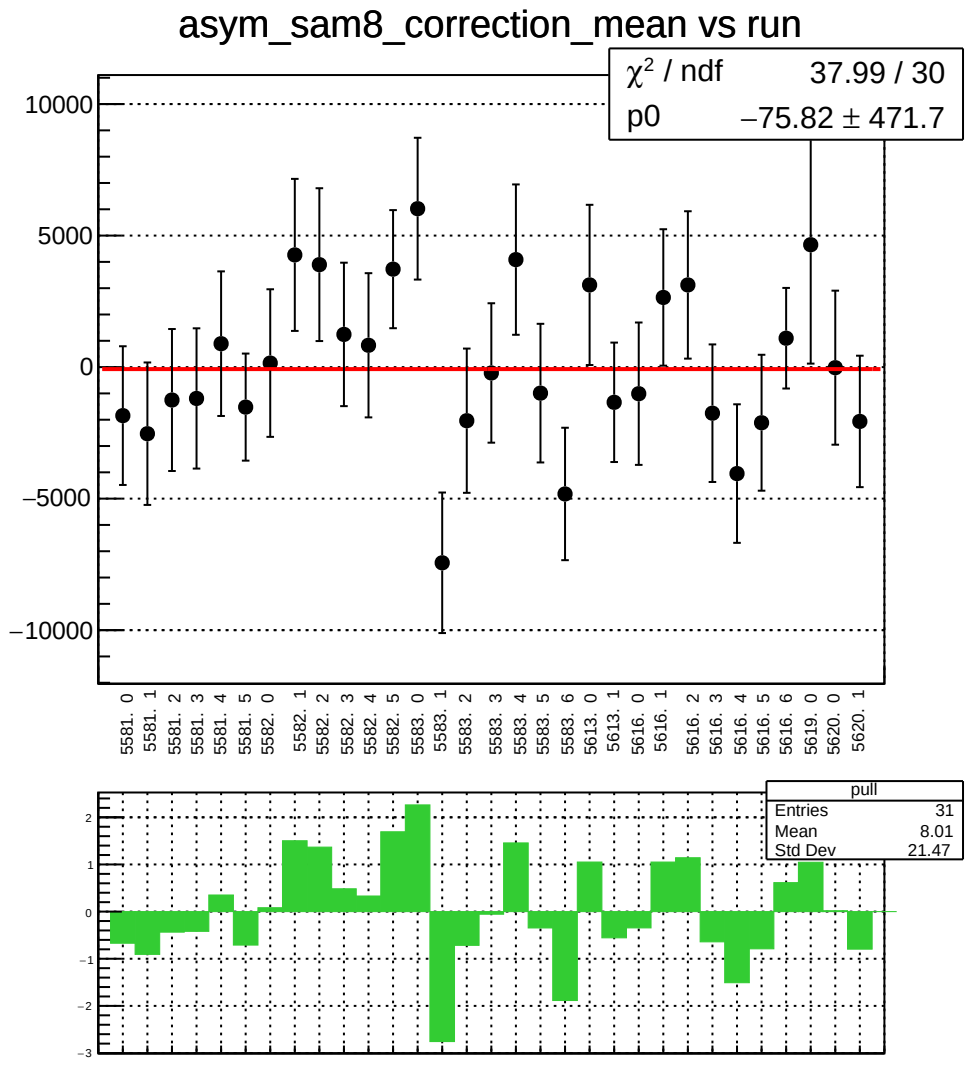

pull1D
Entries 31
Mean −0.01781
Std Dev 1.06
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

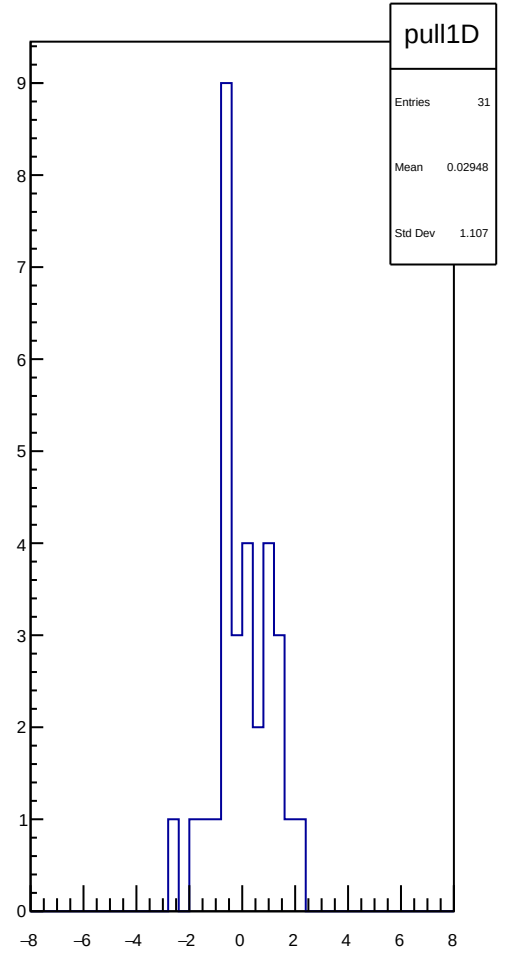

asym_sam7_rms vs run
χ² / ndf 3928 / 30
p0 601.9 ± 0.7753
700
650
600
550
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

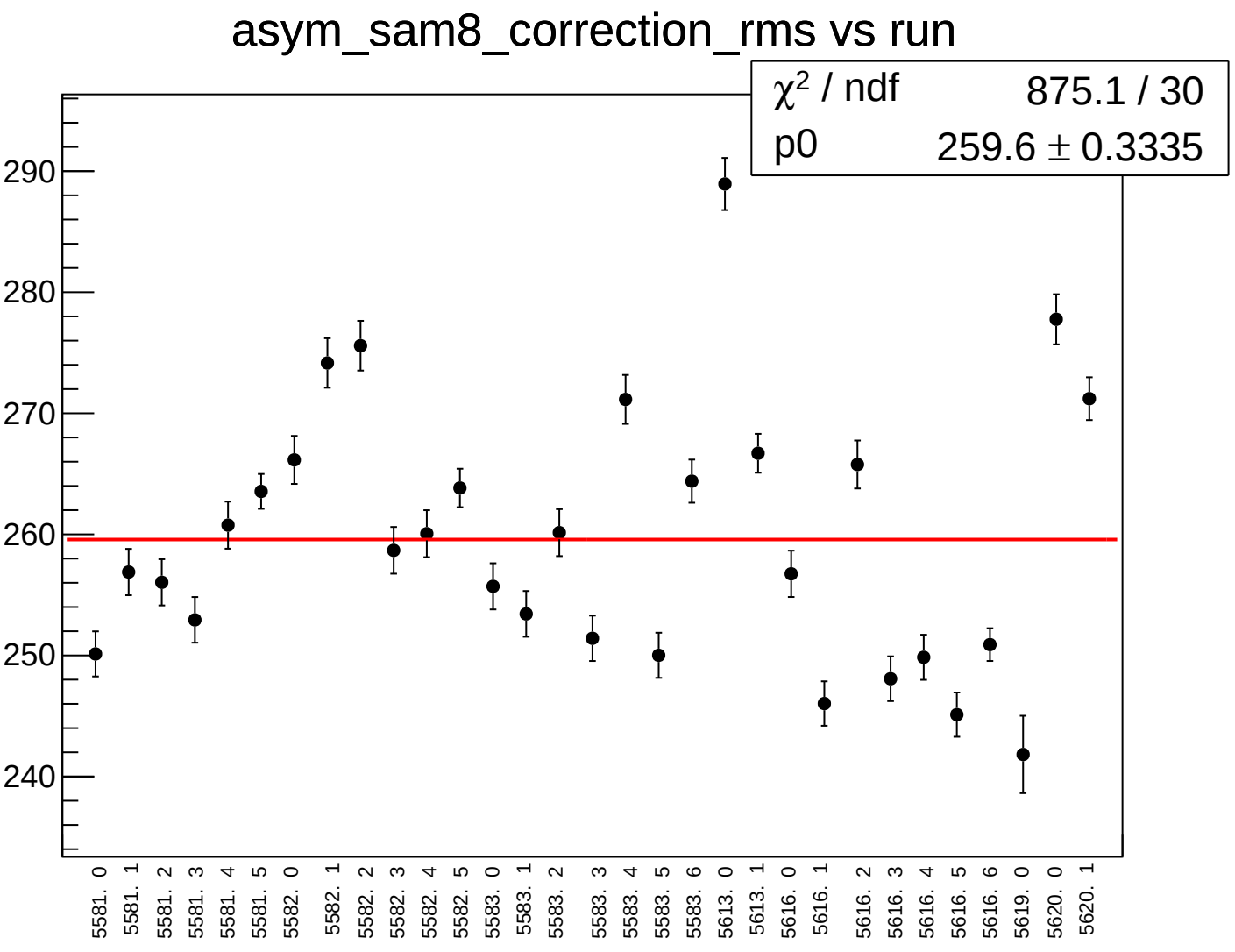

dit_asym_sam8_mean vs run
χ² / ndf 45.78 / 30
p0 −292 ± 164.9
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −9.802
Std Dev 13.51
2
1
0
−1
−2
−3

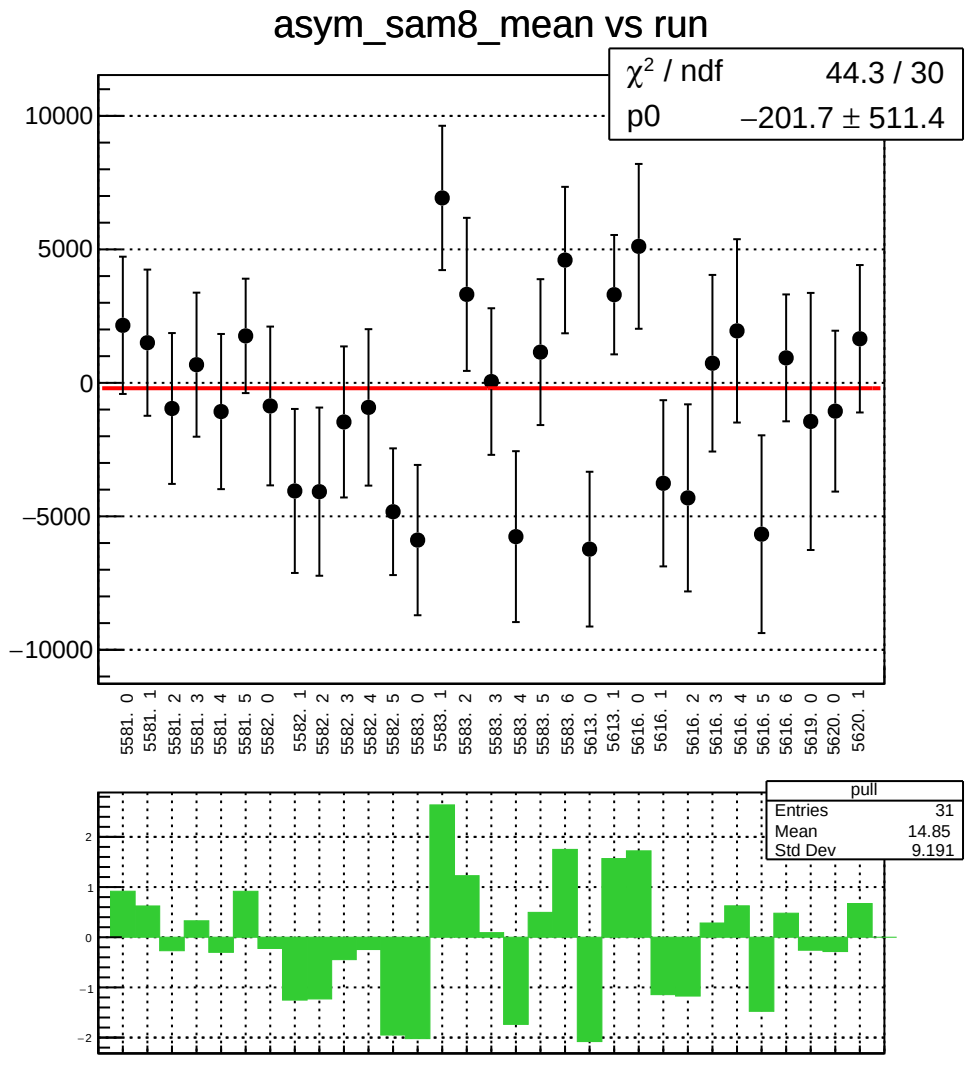

pull1D
Entries 31
Mean −0.02822
Std Dev 1.215
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

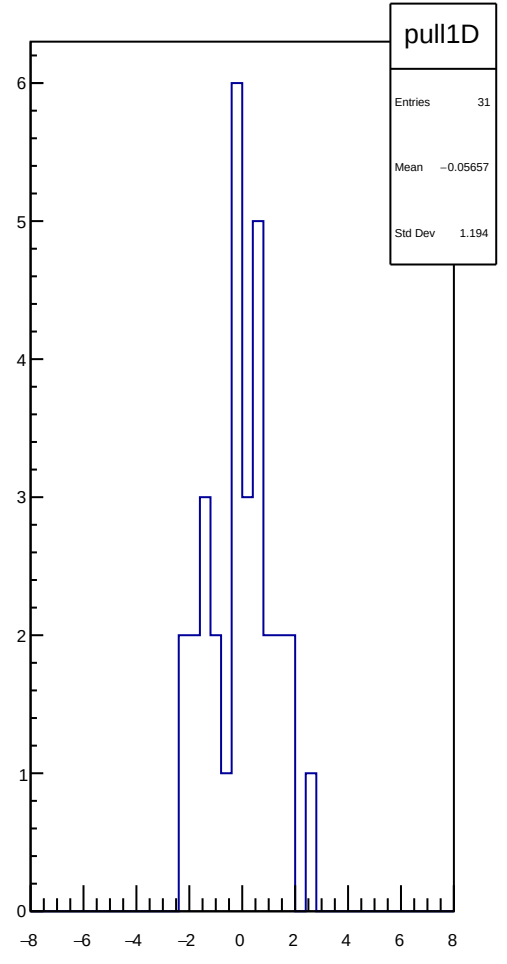

dit_asym_sam8_rms vs run
χ² / ndf 6.958e+04 / 30
p0 85.44 ± 0.1166
240
220
200
180
160
140
120
100
80
60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

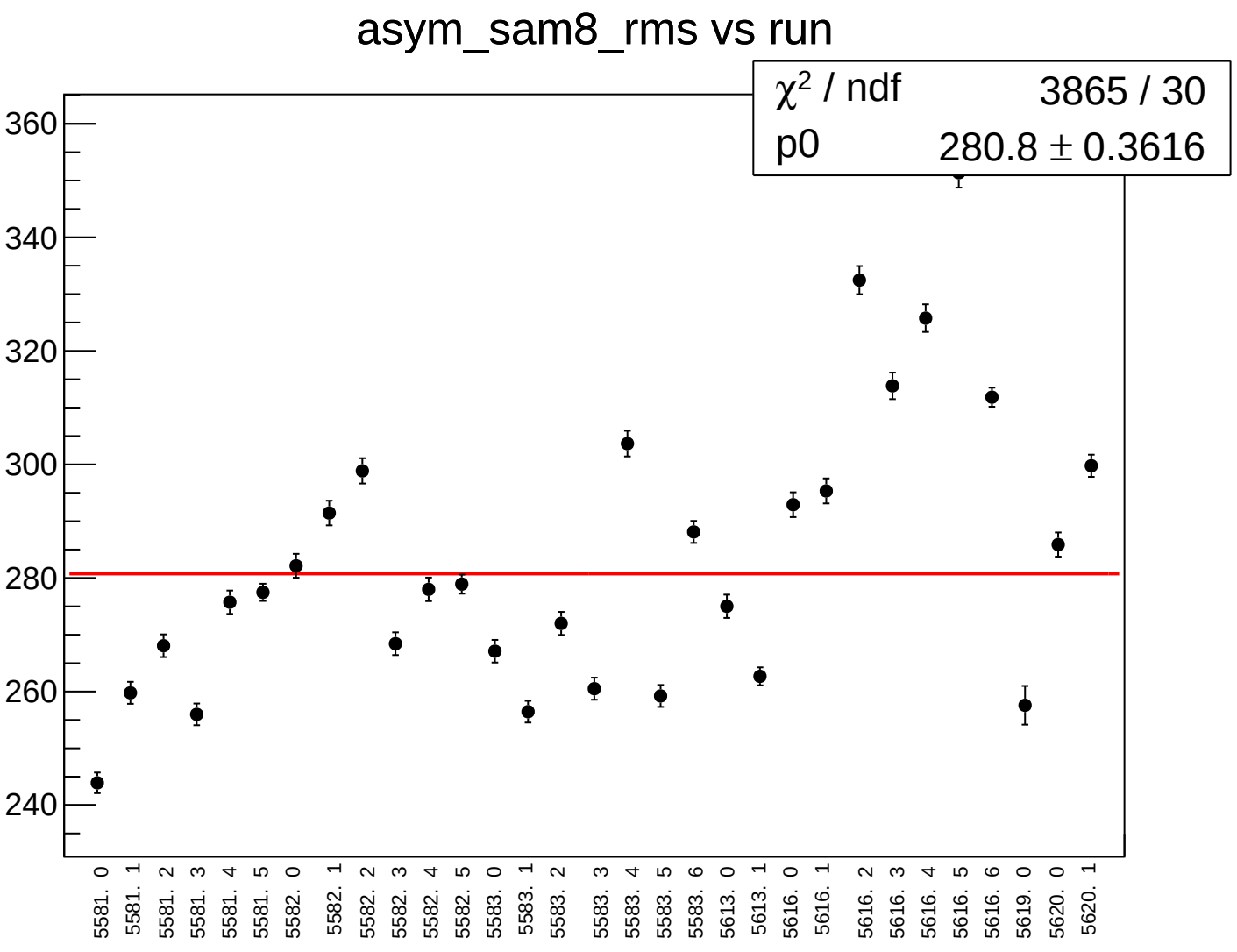

asym_sam8_correction_mean vs run
χ² / ndf 37.99 / 30
p0 −75.82 ± 471.7
10000
5000
0
−5000
−10000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 8.01
Std Dev 21.47
2
1
0
−1
−2
−3

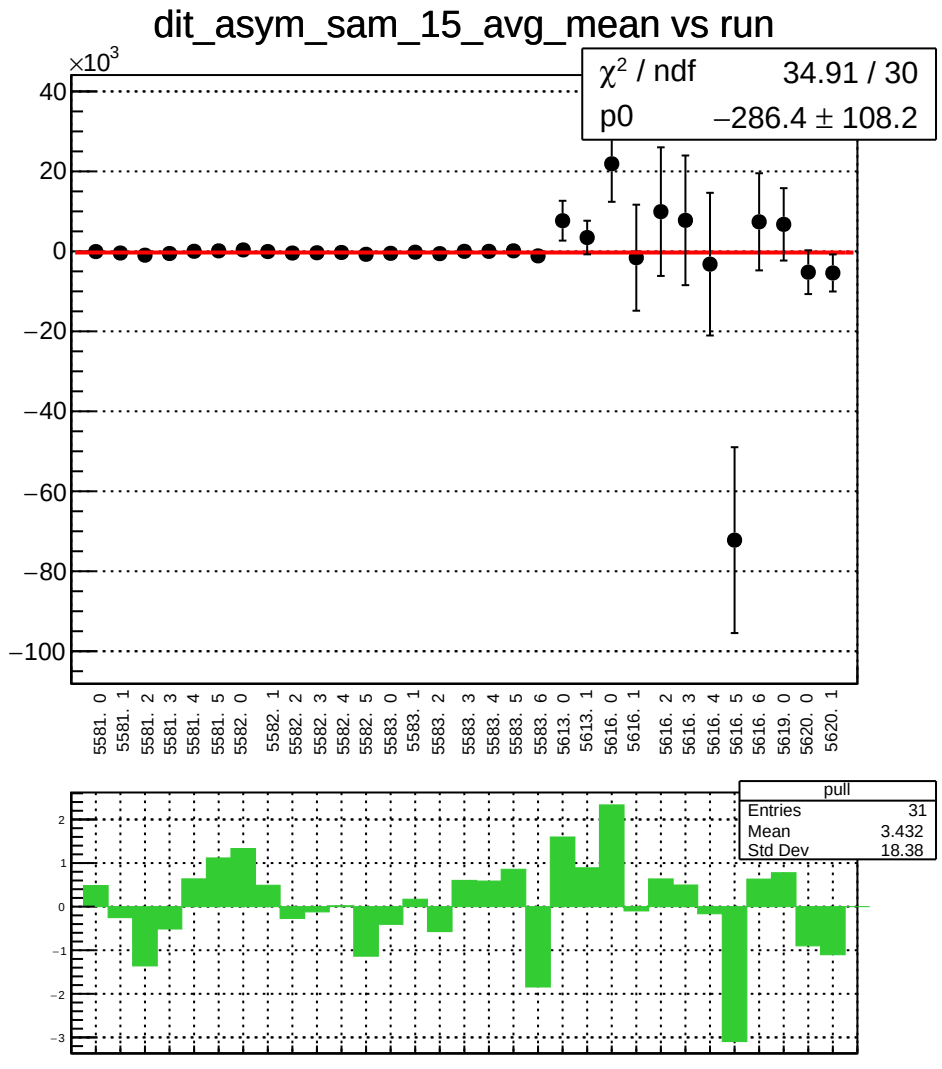

pull1D
Entries 31
Mean 0.02948
Std Dev 1.107
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

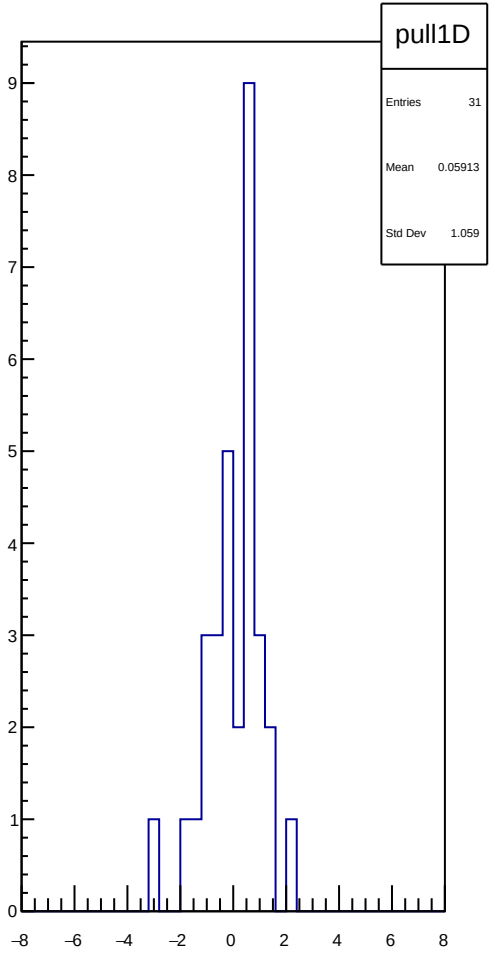

asym_sam8_correction_rms vs run
χ² / ndf 875.1 / 30
p0 259.6 ± 0.3335
290
280
270
260
250
240
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

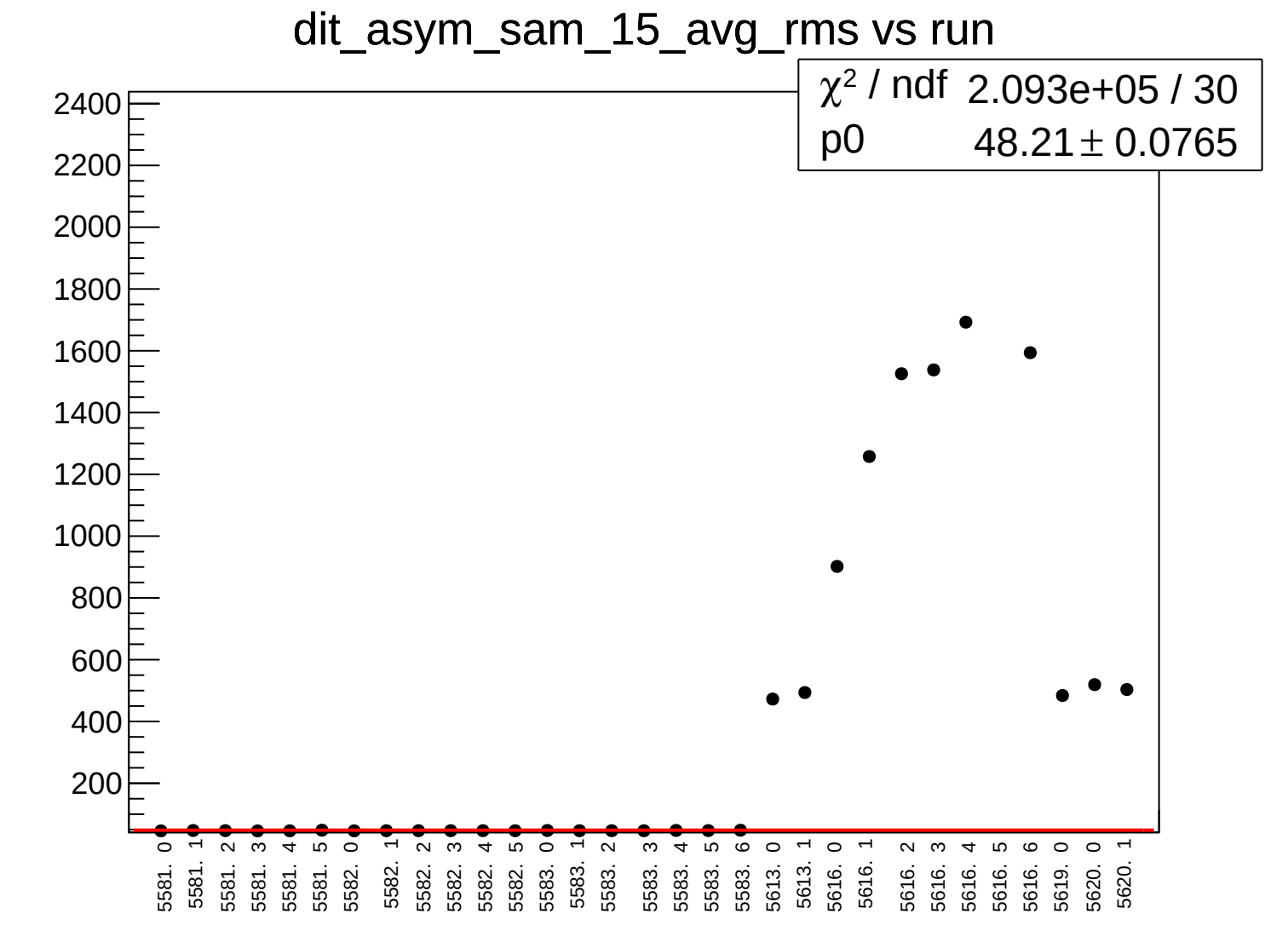

asym_sam8_mean vs run
χ² / ndf 44.3 / 30
p0 −201.7 ± 511.4
10000
5000
0
−5000
−10000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 14.85
Std Dev 9.191
2
1
0
−1
−2

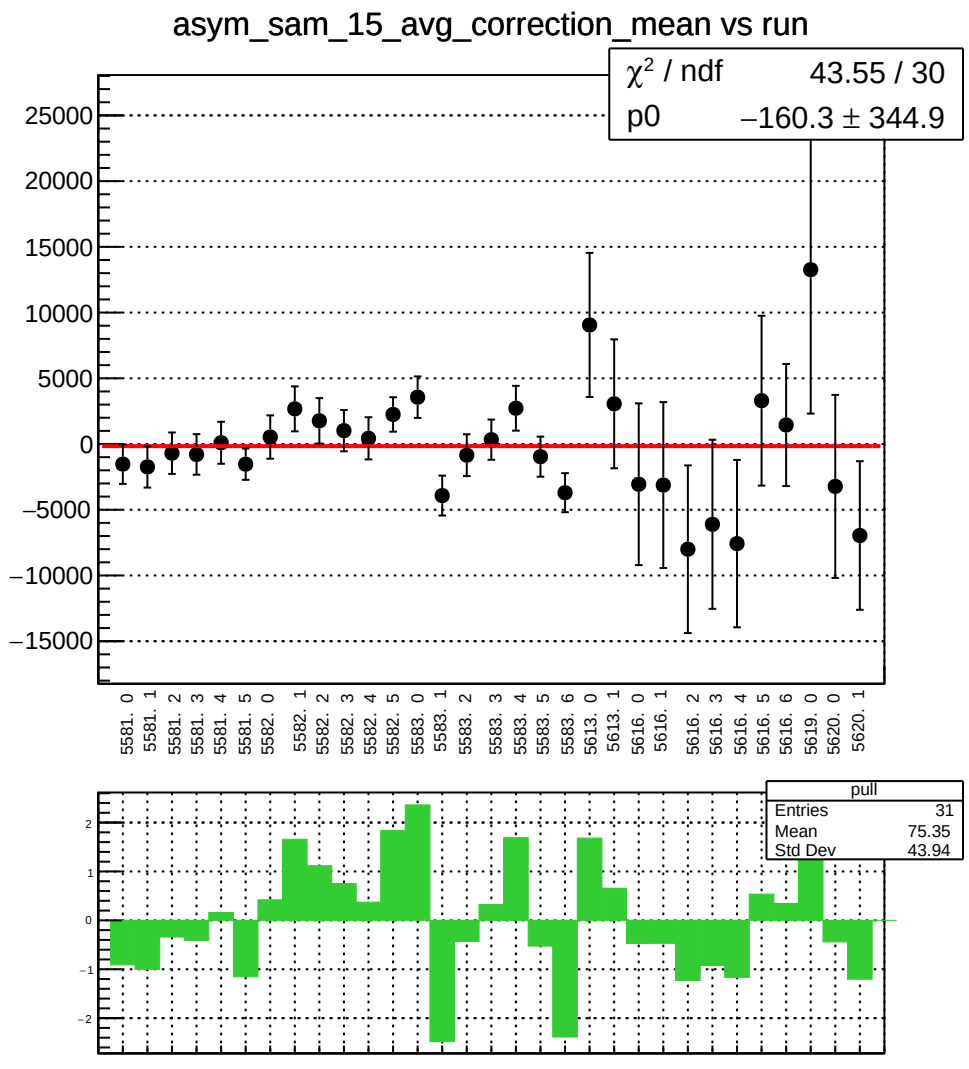

pull1D
Entries 31
Mean −0.05657
Std Dev 1.194
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

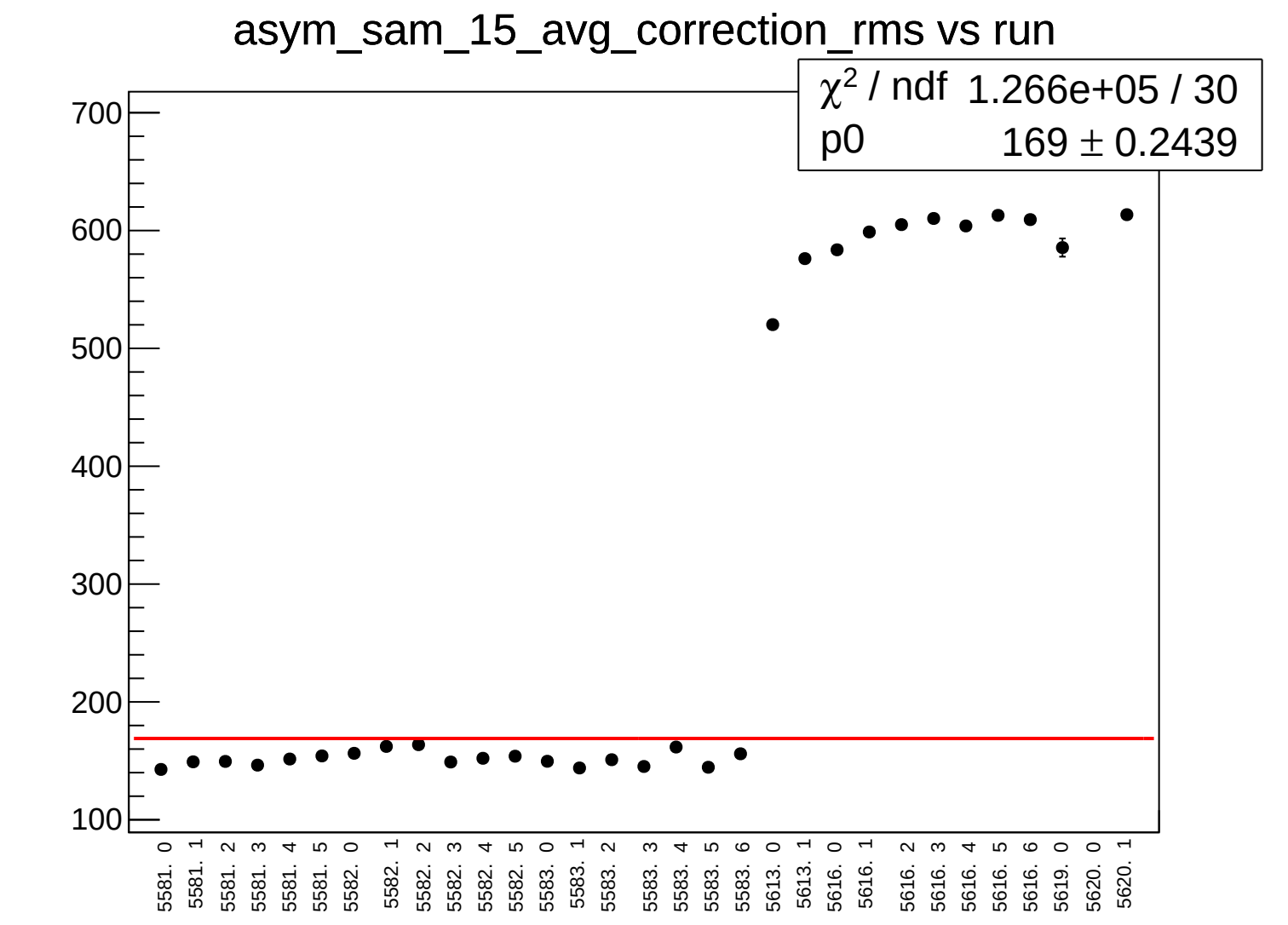

asym_sam8_rms vs run
χ² / ndf 3865 / 30
p0 280.8 ± 0.3616
360
340
320
300
280
260
240
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

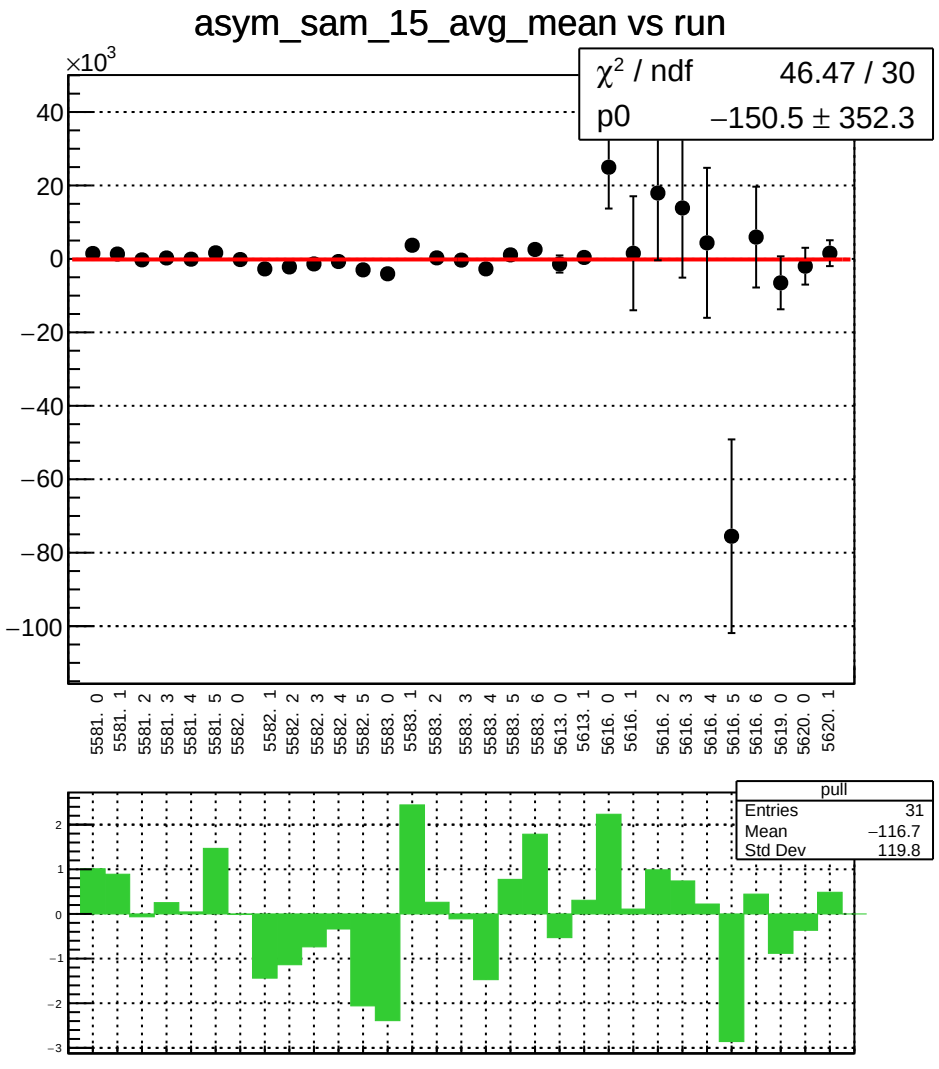

dit_asym_sam_15_avg_mean vs run
×10^3
χ² / ndf 34.91 / 30
p0 −286.4 ± 108.2
40
20
0
−20
−40
−60
−80
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 3.432
Std Dev 18.38
2
1
0
−1
−2
−3

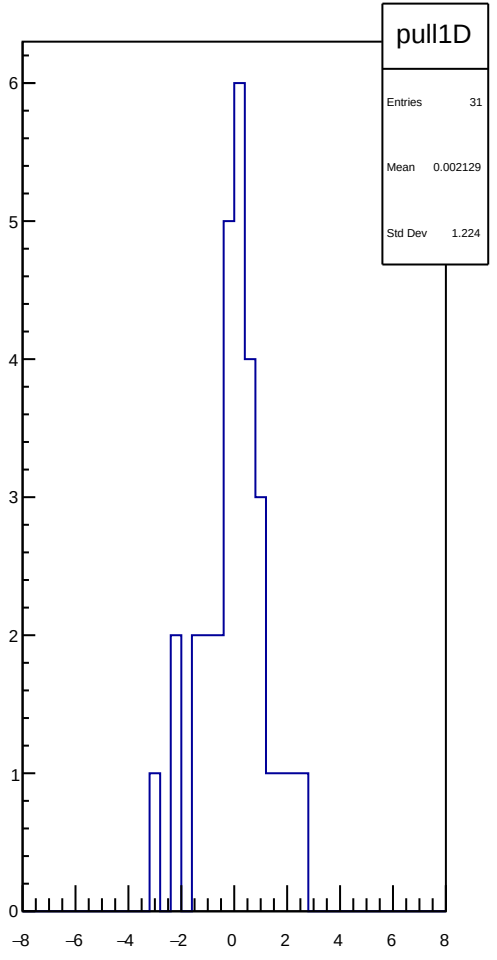

pull1D
Entries 31
Mean 0.05913
Std Dev 1.059
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

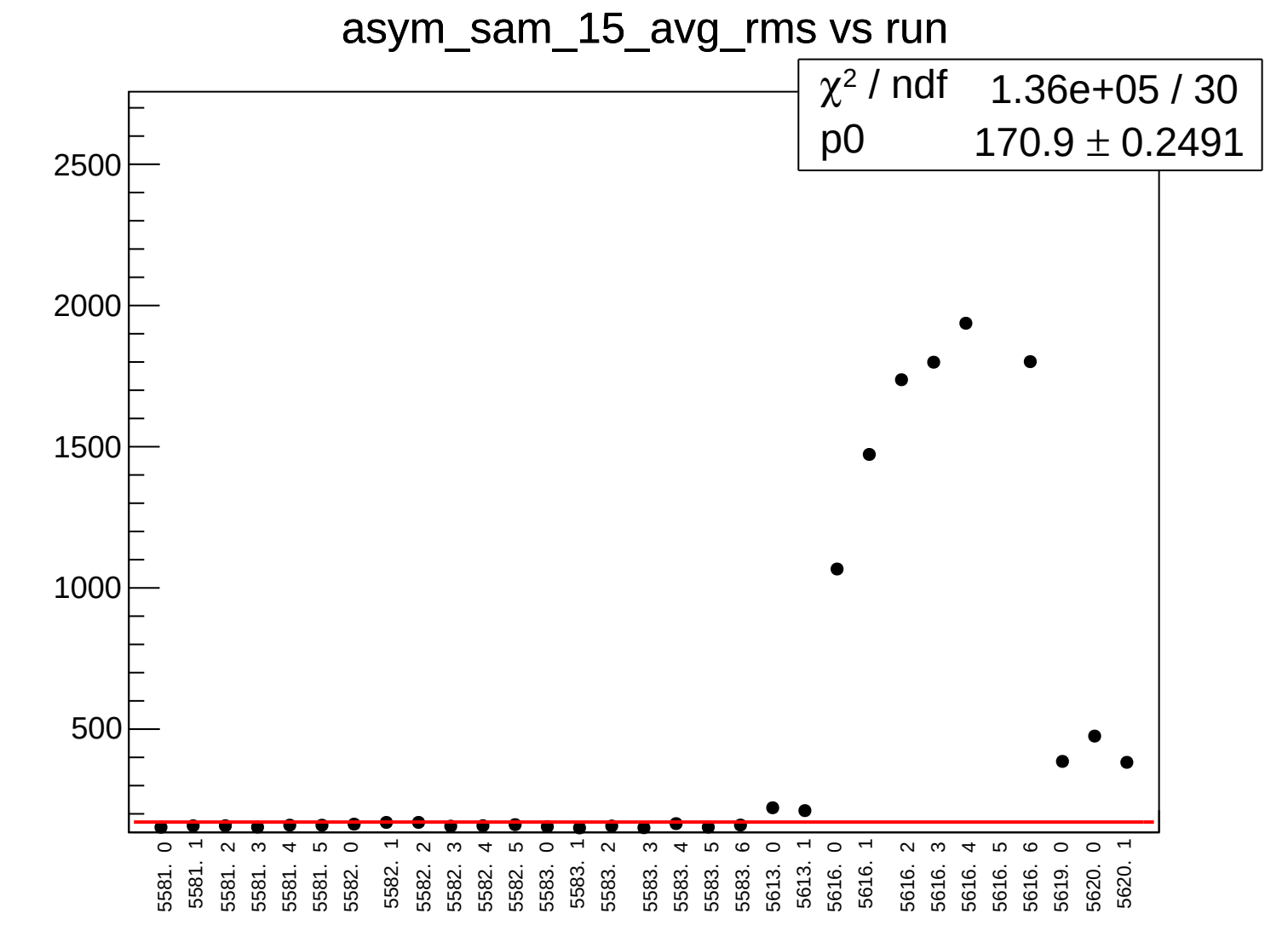

dit_asym_sam_15_avg_rms vs run
χ² / ndf 2.093e+05 / 30
p0 48.21 ± 0.0765
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

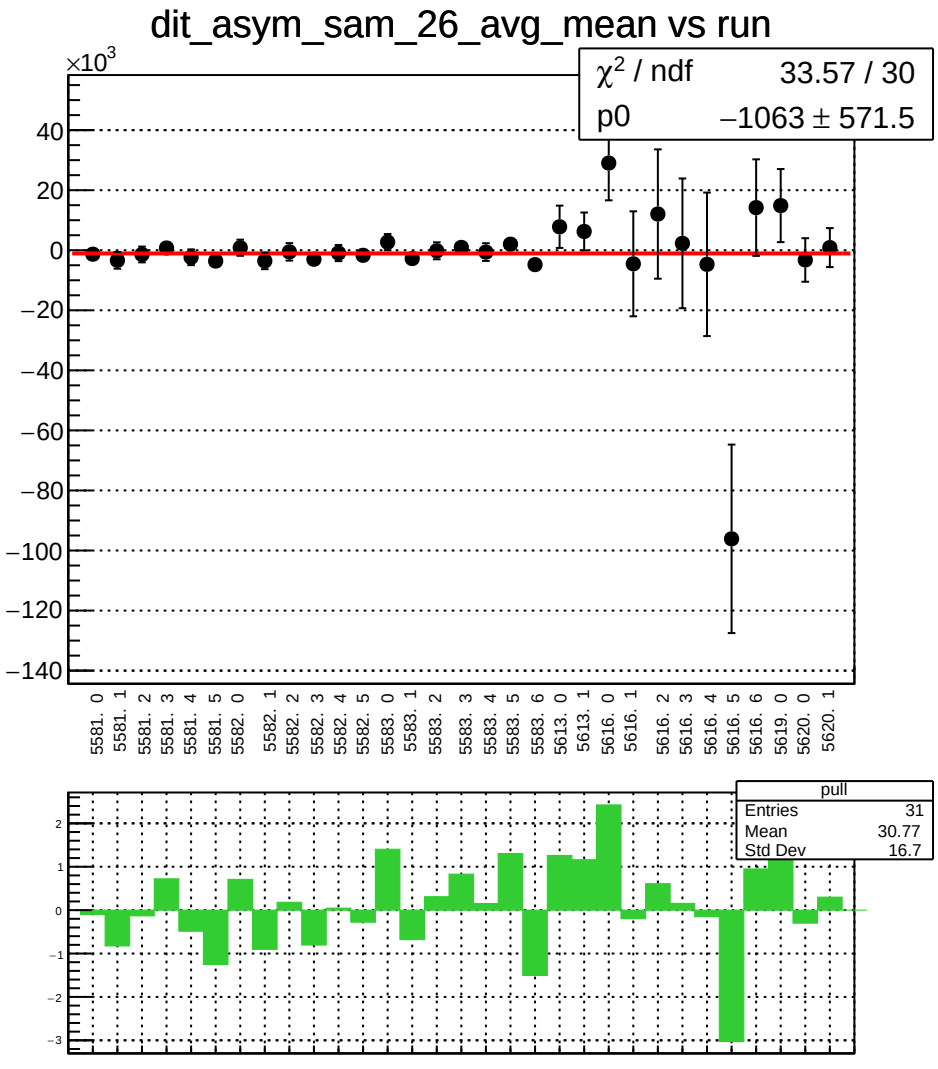

asym_sam_15_avg_correction_mean vs run
χ² / ndf 43.55 / 30
p0 −160.3 ± 344.9
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 75.35
Std Dev 43.94
2
1
0
−1
−2
pull1D
Entries 31
Mean −0.01301
Std Dev 1.185
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

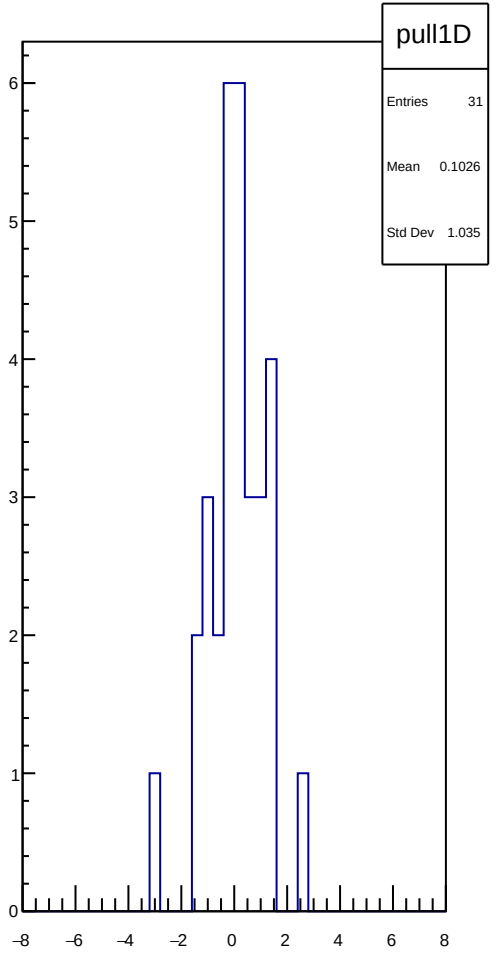

asym_sam_15_avg_correction_rms vs run
χ² / ndf 1.266e+05 / 30
p0 169 ± 0.2439
700
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

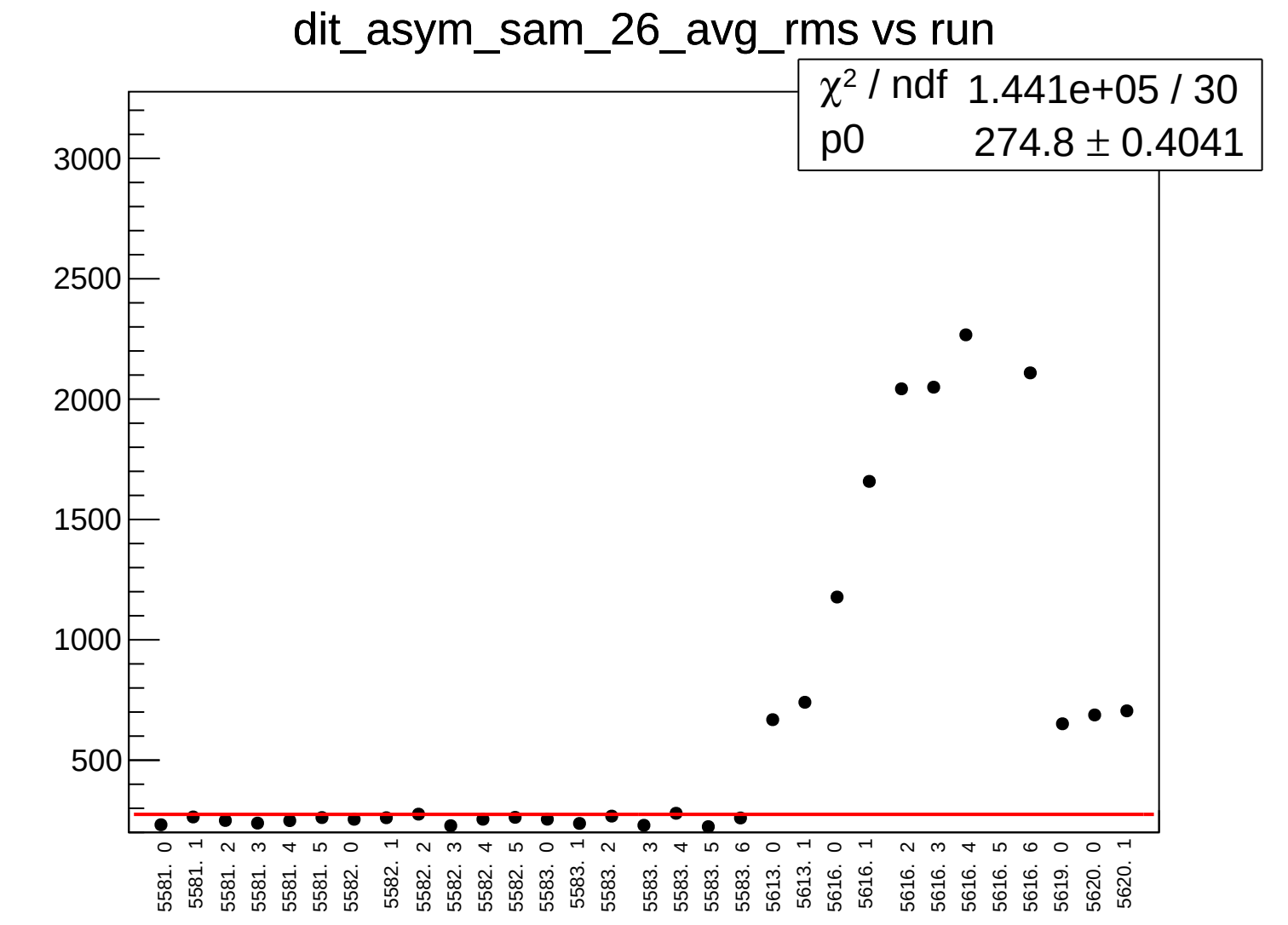

asym_sam_15_avg_mean vs run
×10^3
χ² / ndf 46.47 / 30
p0 −150.5 ± 352.3
40
20
0
−20
−40
−60
−80
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −116.7
Std Dev 119.8
2
1
0
−1
−2
−3

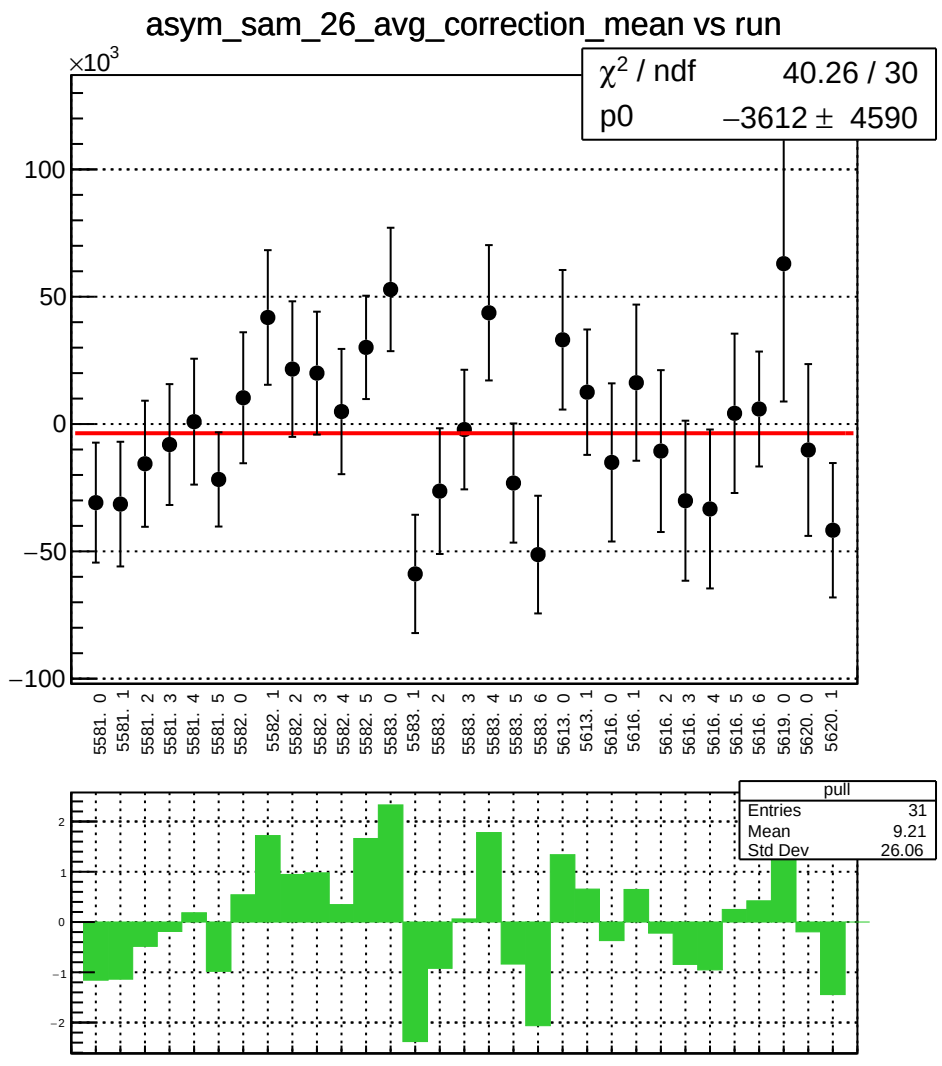

pull1D
Entries 31
Mean 0.002129
Std Dev 1.224
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

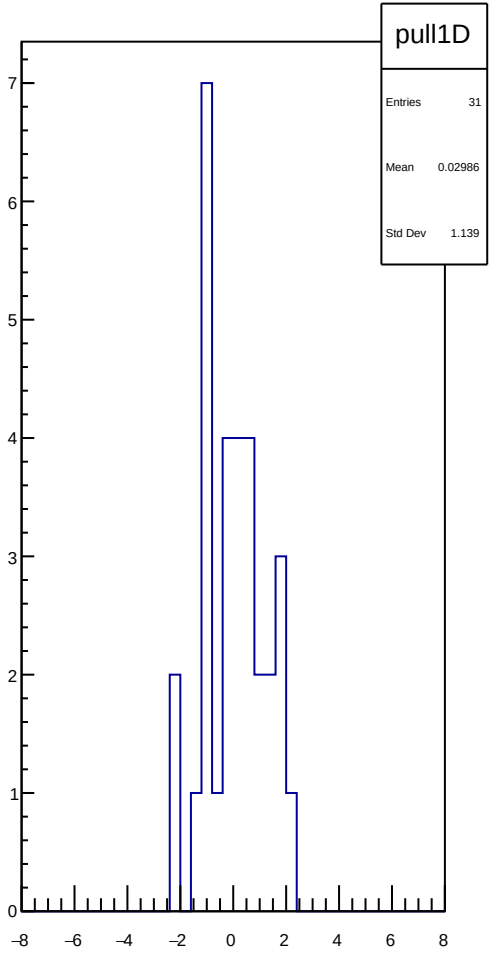

asym_sam_15_avg_rms vs run
χ² / ndf 1.36e+05 / 30
p0 170.9 ± 0.2491
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

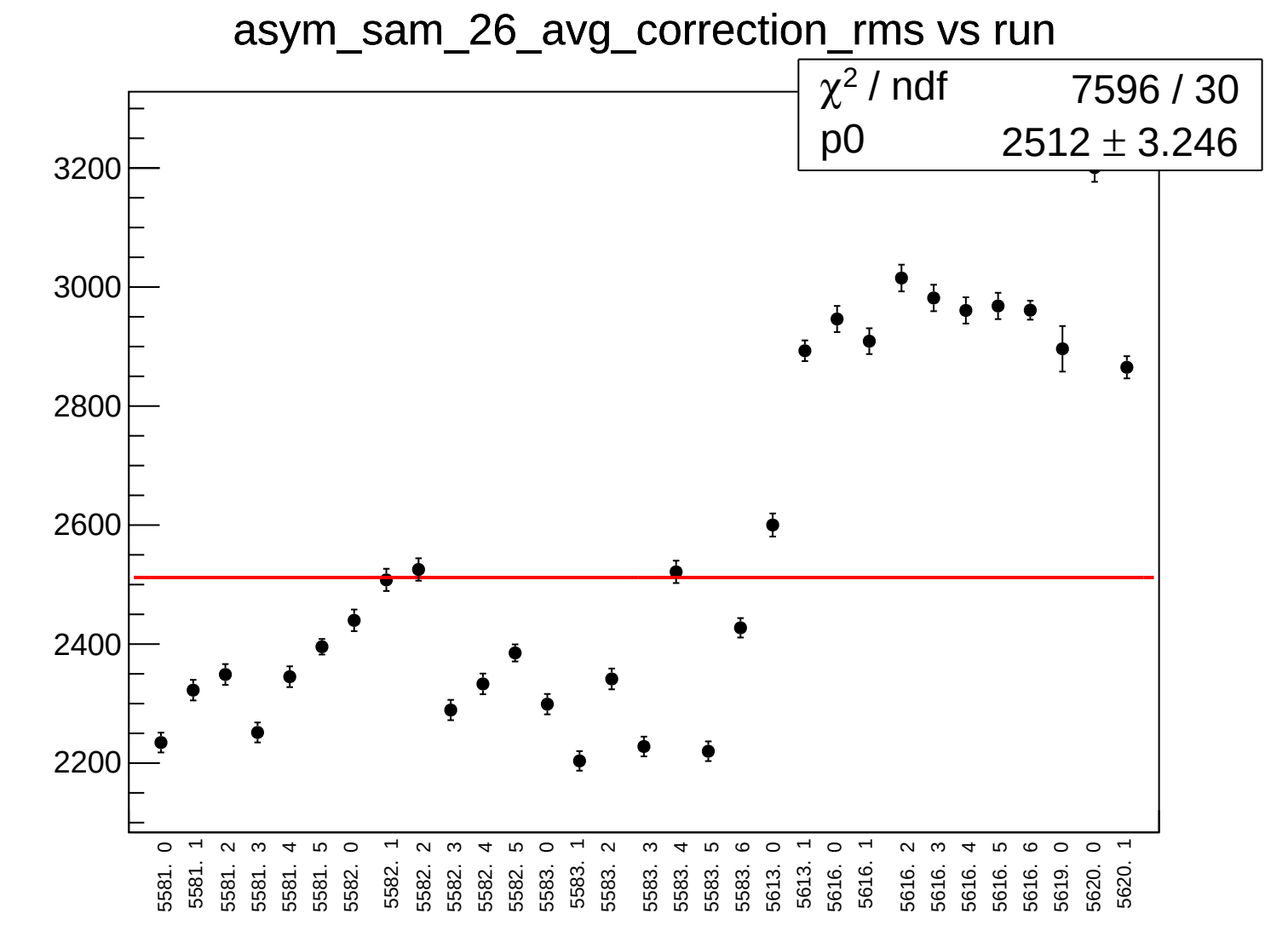

dit_asym_sam_26_avg_mean vs run
×10^3
χ^2 / ndf 33.57 / 30
p0 −1063 ± 571.5
40
20
0
−20
−40
−60
−80
−100
−120
−140
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 30.77
Std Dev 16.7
2
1
0
−1
−2
−3

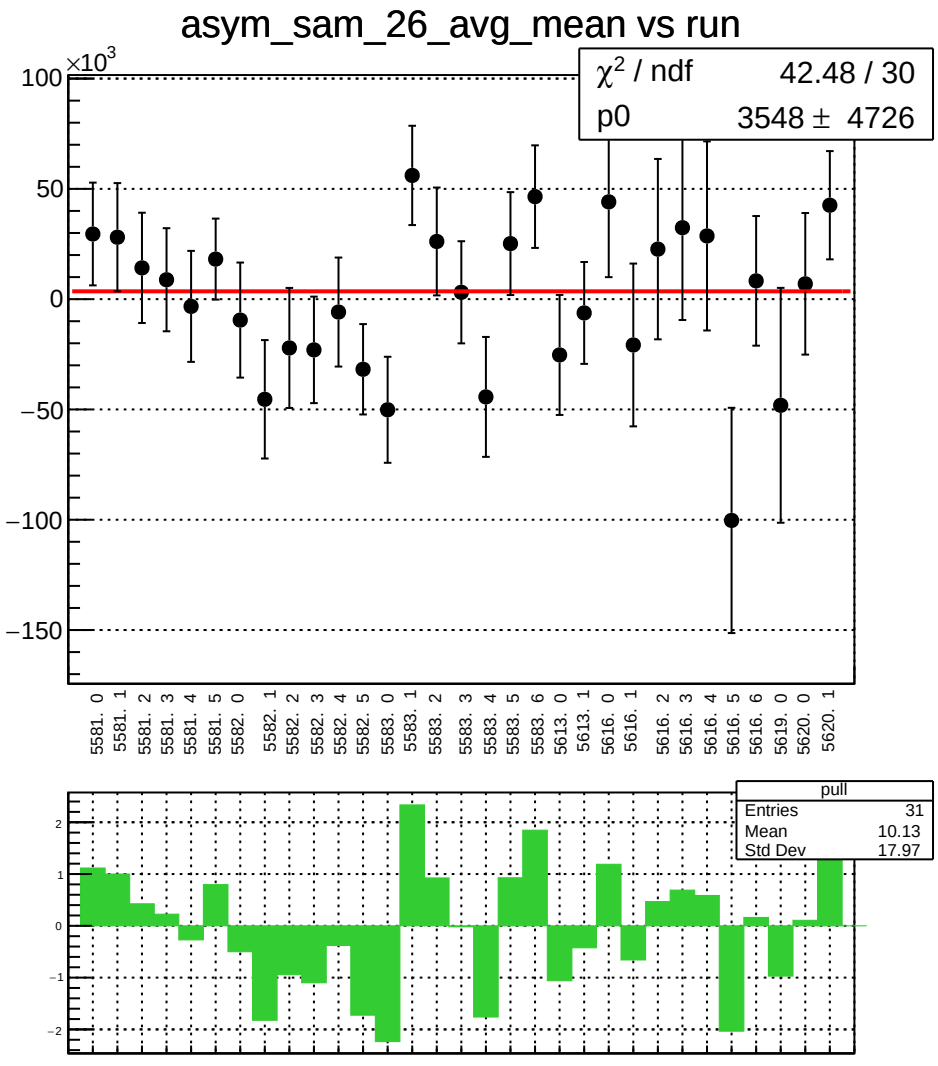

pull1D
Entries 31
Mean 0.1026
Std Dev 1.035
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

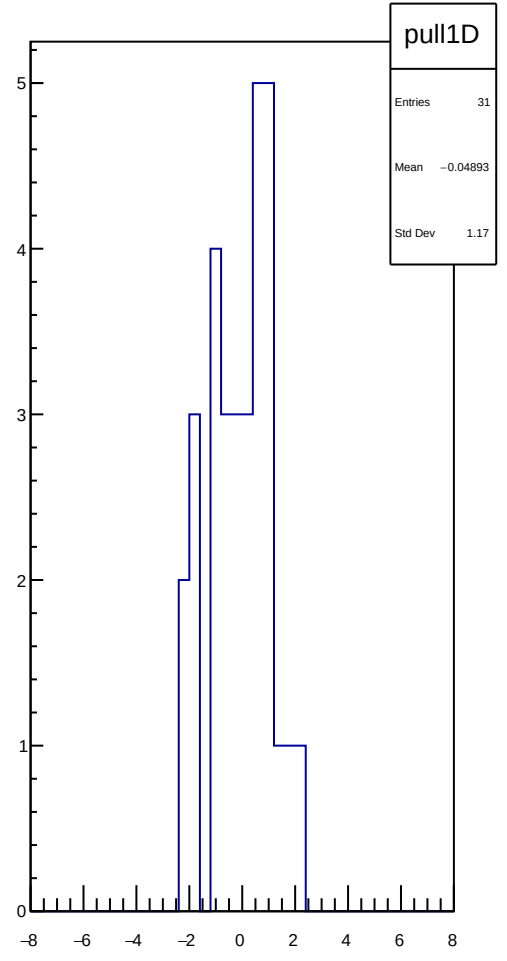

dit_asym_sam_26_avg_rms vs run
χ² / ndf 1.441e+05 / 30
p0 274.8 ± 0.4041
3000
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

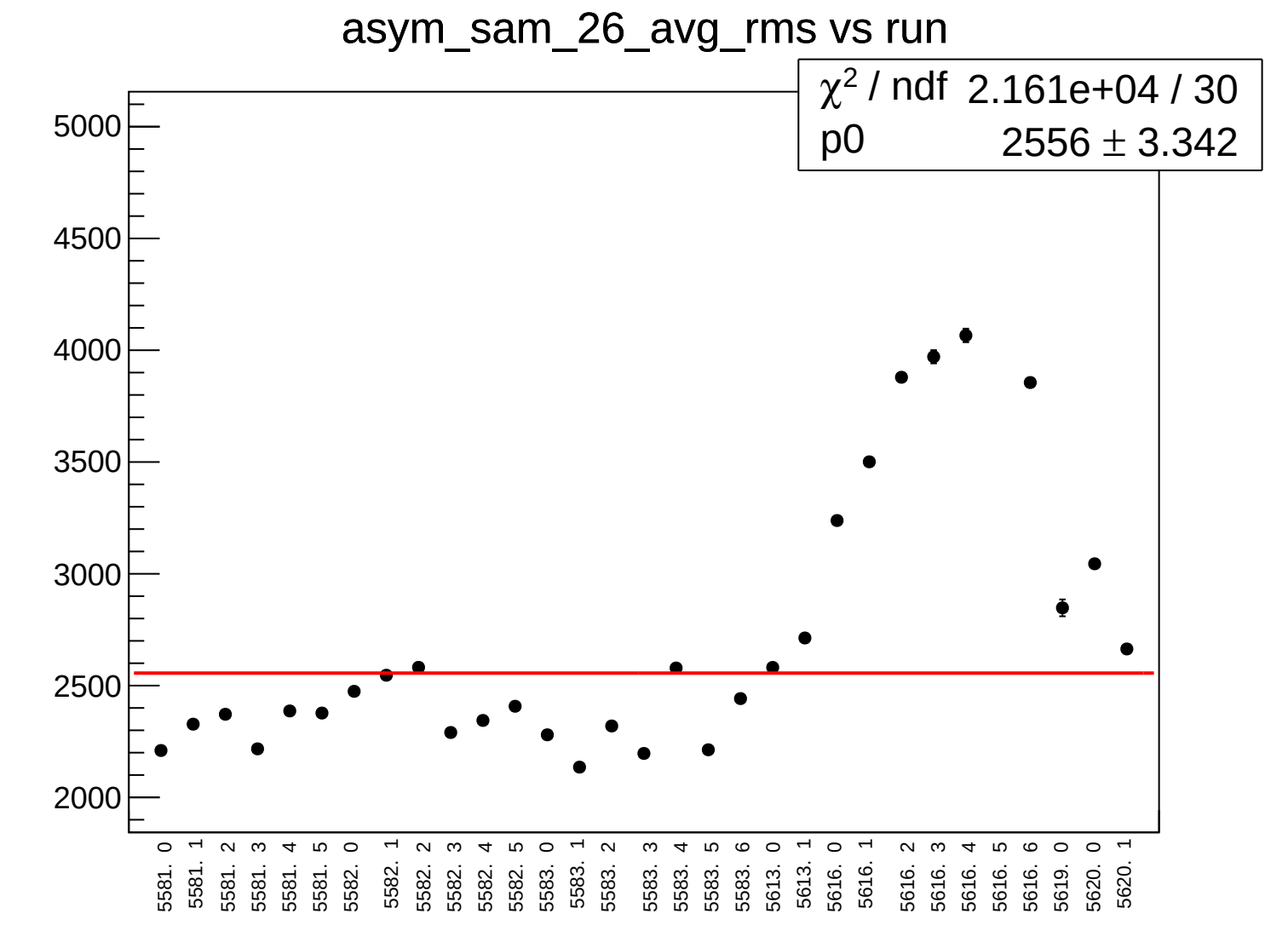

asym_sam_26_avg_correction_mean vs run
×10^3
χ² / ndf 40.26 / 30
p0 −3612 ± 4590
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 9.21
Std Dev 26.06
2
1
0
−1
−2

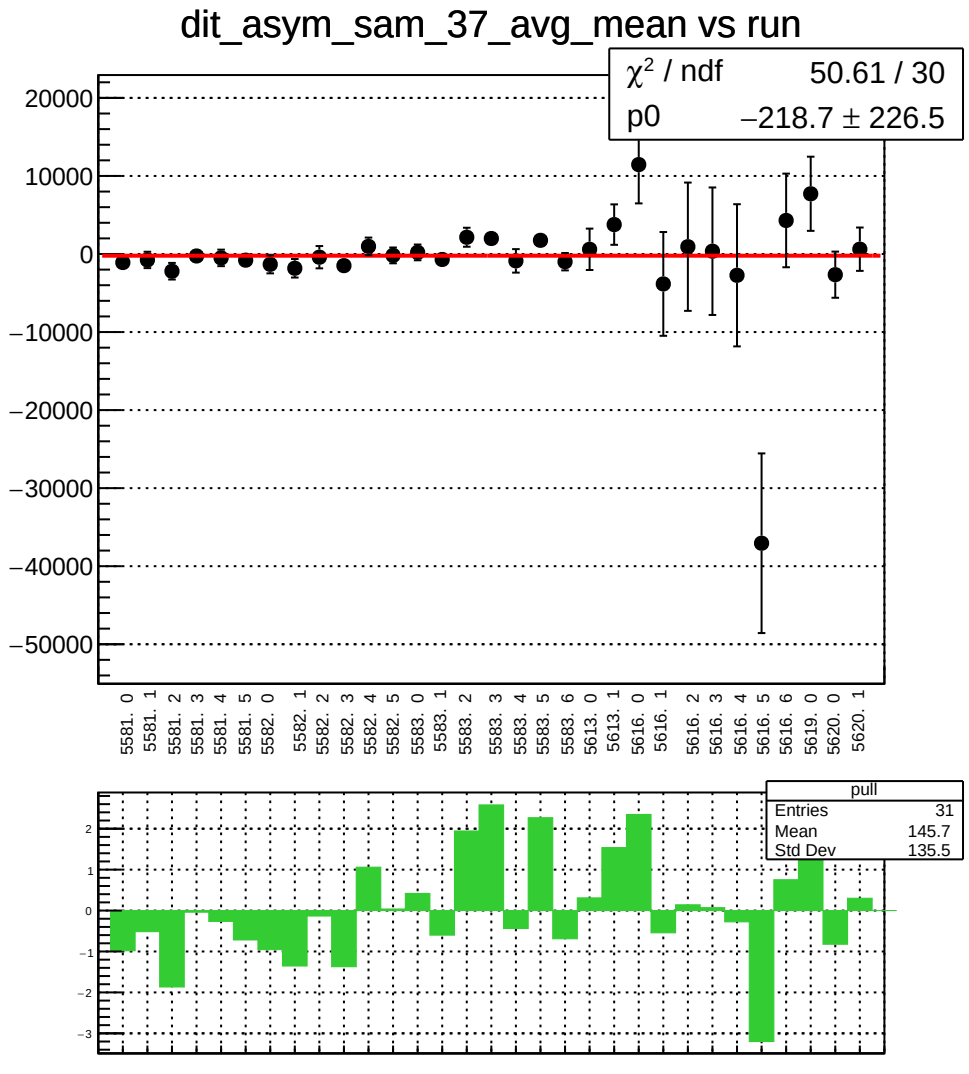

pull1D
Entries 31
Mean 0.02986
Std Dev 1.139
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

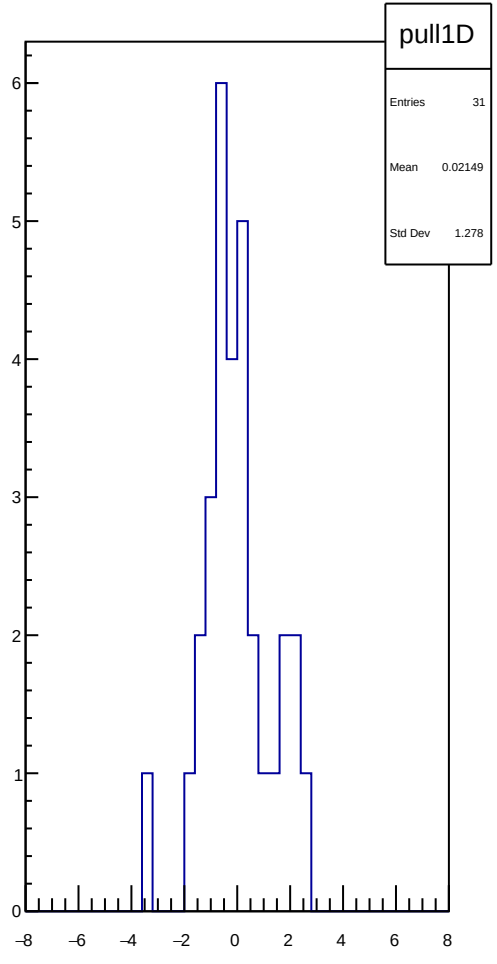

asym_sam_26_avg_correction_rms vs run
χ² / ndf 7596 / 30
p0 2512 ± 3.246
3200
3000
2800
2600
2400
2200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

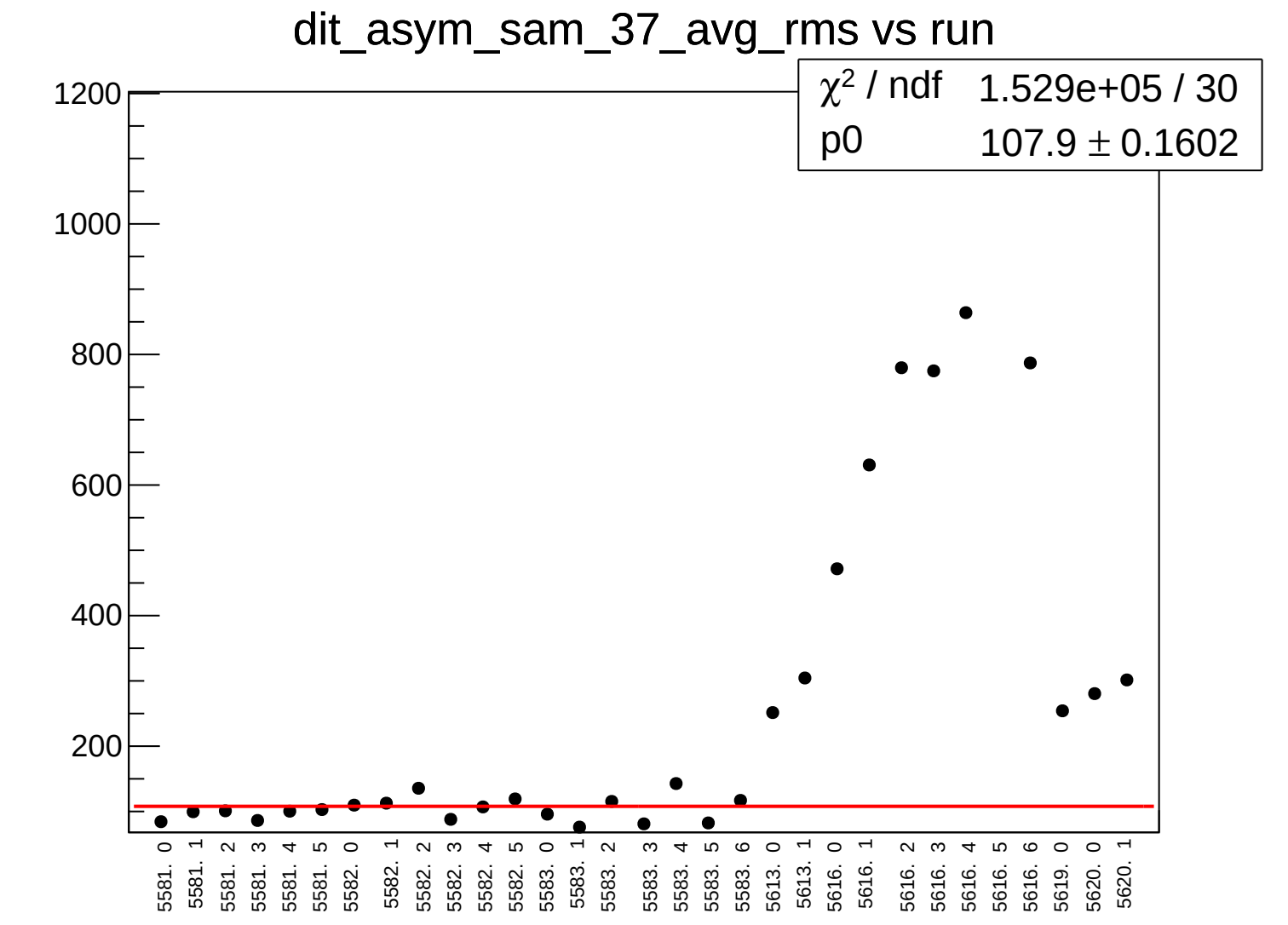

asym_sam_26_avg_mean vs run
×10^3
χ^2 / ndf 42.48 / 30
p0 3548 ± 4726
100
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 10.13
Std Dev 17.97
2
1
0
−1
−2

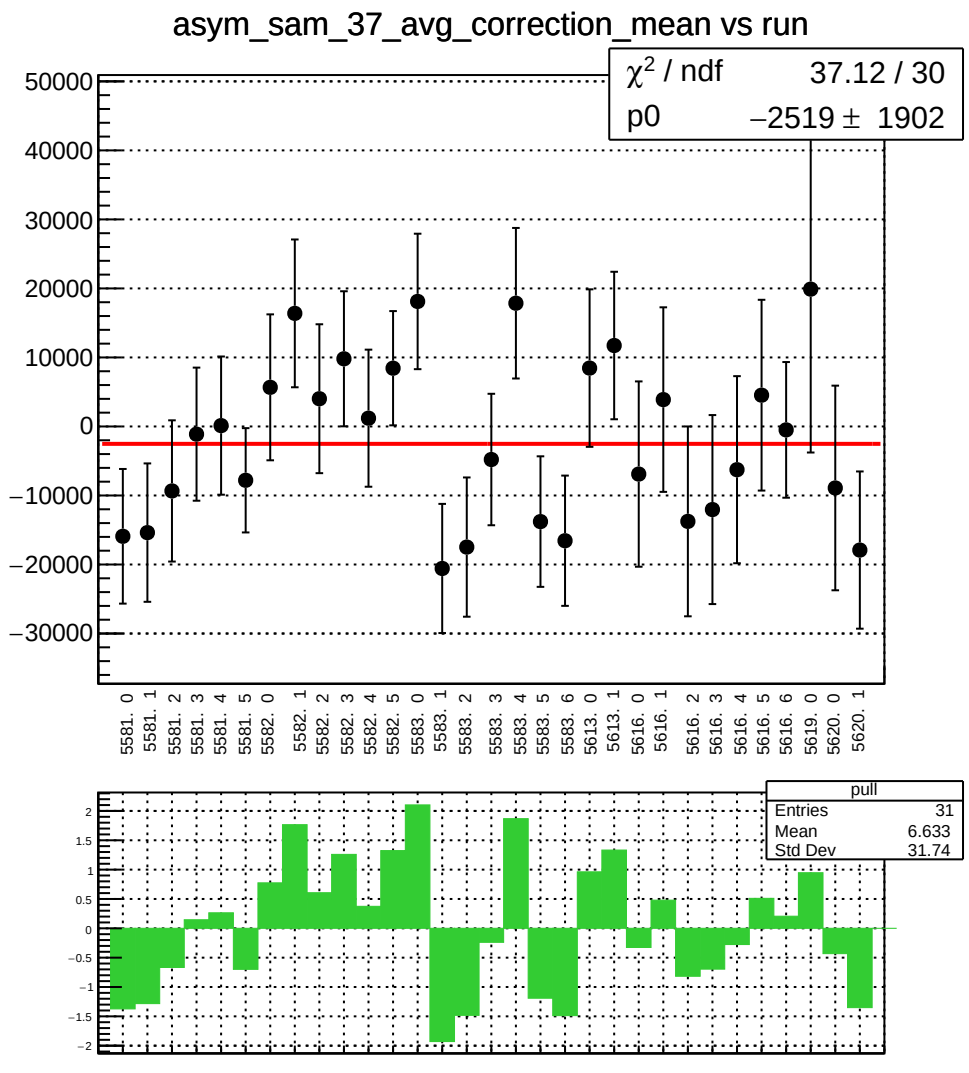

pull1D
Entries 31
Mean −0.04893
Std Dev 1.17
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

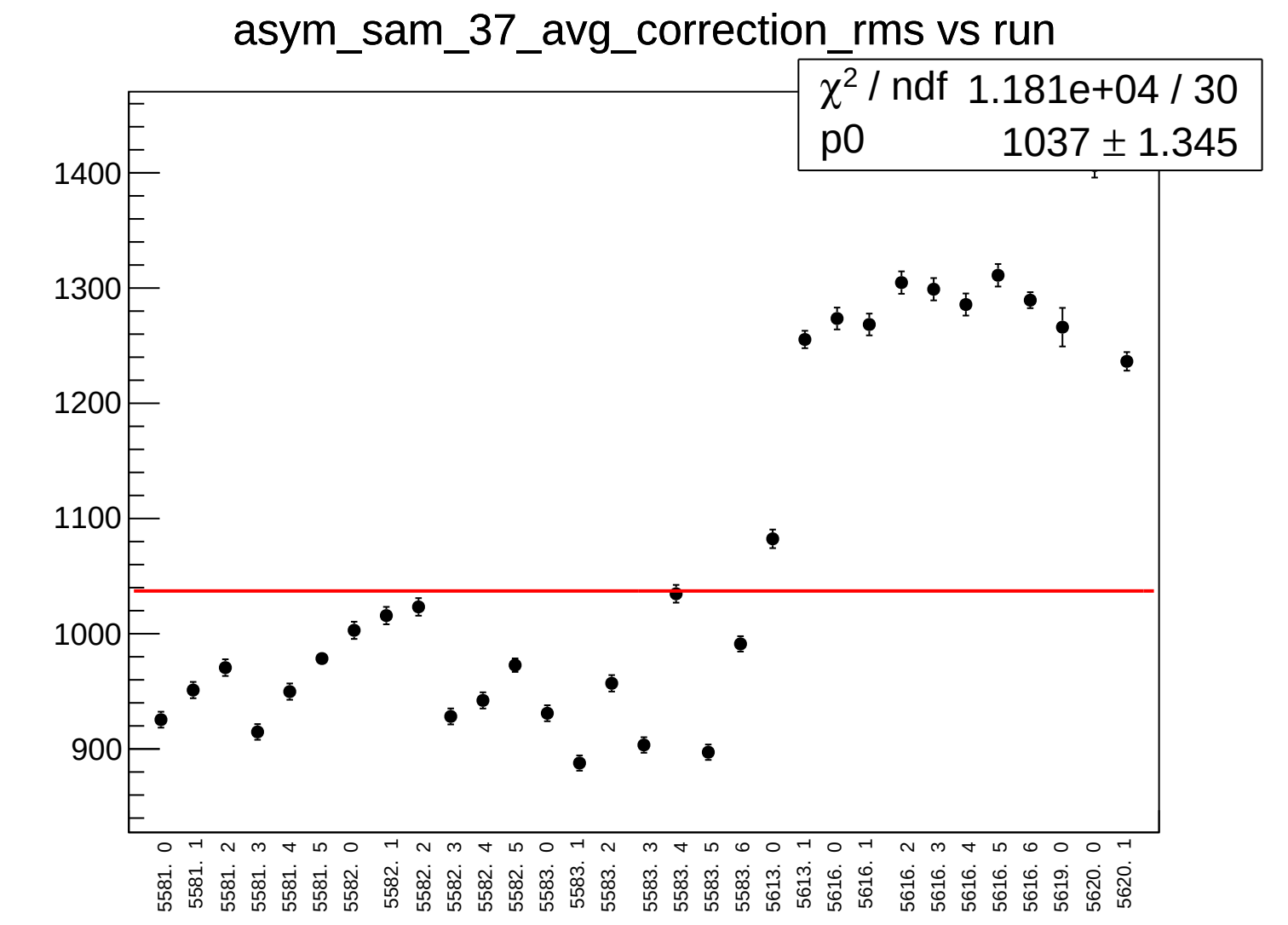

asym_sam_26_avg_rms vs run
χ^2 / ndf 2.161e+04 / 30
p0 2556 ± 3.342
5000
4500
4000
3500
3000
2500
2000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

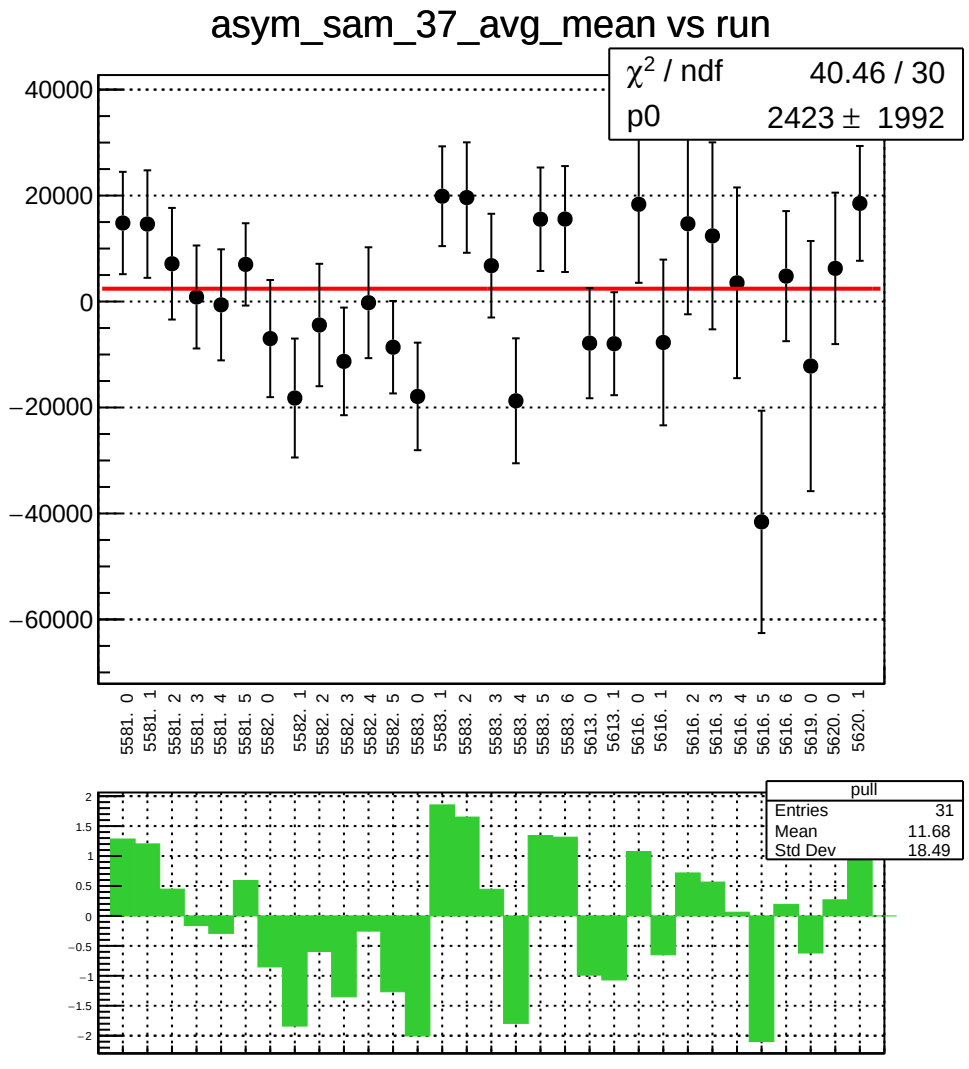

dit_asym_sam_37_avg_mean vs run
χ² / ndf 50.61 / 30
p0 −218.7 ± 226.5
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 145.7
Std Dev 135.5
2
1
0
−1
−2
−3

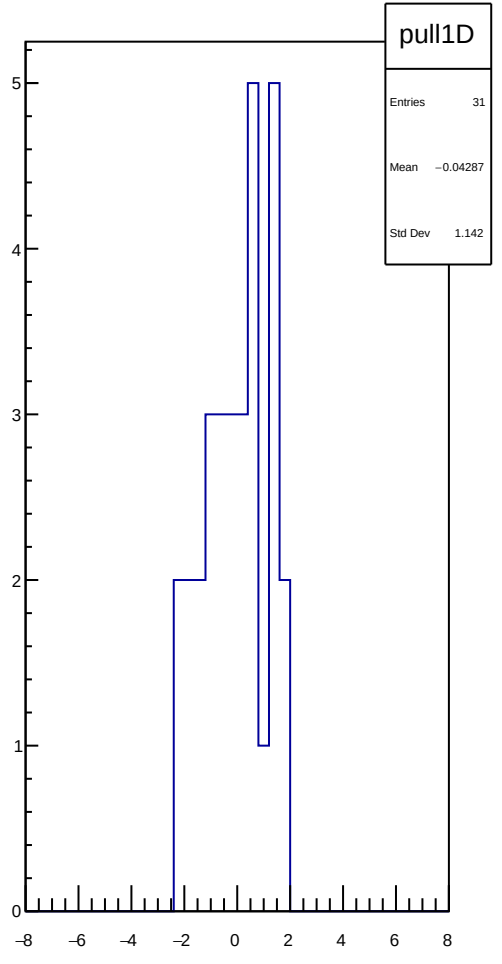

pull1D
Entries 31
Mean 0.02149
Std Dev 1.278
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

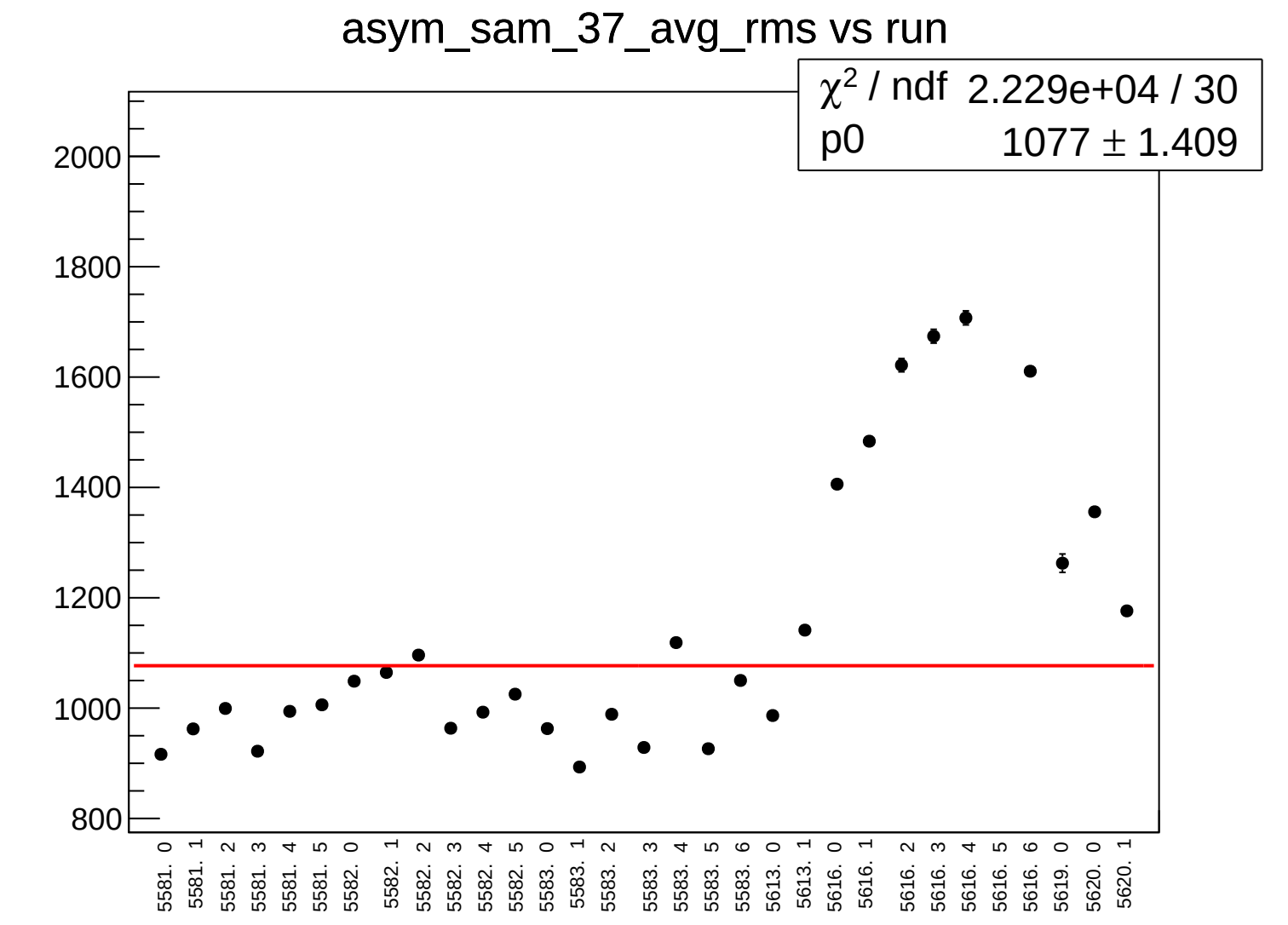

dit_asym_sam_37_avg_rms vs run
χ² / ndf 1.529e+05 / 30
p0 107.9 ± 0.1602
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

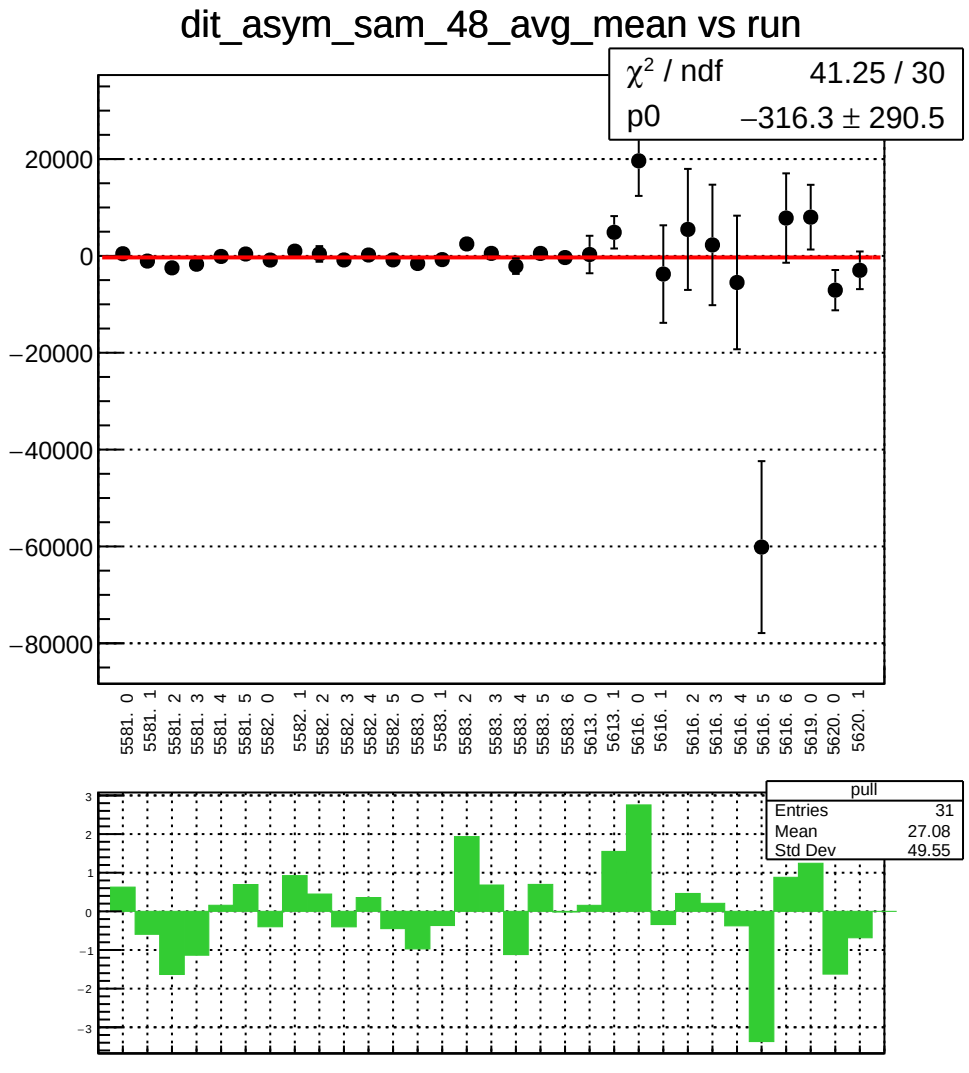

asym_sam_37_avg_correction_mean vs run
χ² / ndf 37.12 / 30
p0 −2519 ± 1902
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 6.633
Std Dev 31.74
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean 0.02181
Std Dev 1.094
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

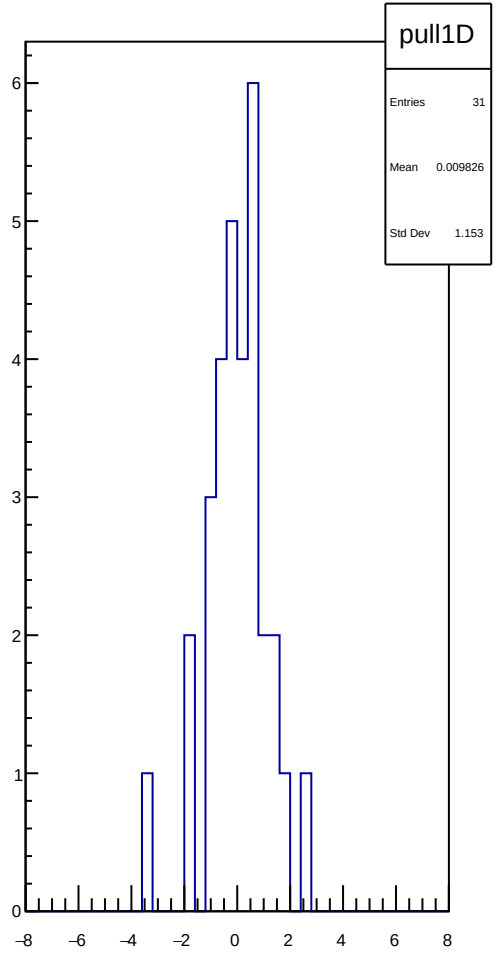

asym_sam_37_avg_correction_rms vs run
χ² / ndf 1.181e+04 / 30
p0 1037 ± 1.345
1400
1300
1200
1100
1000
900
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

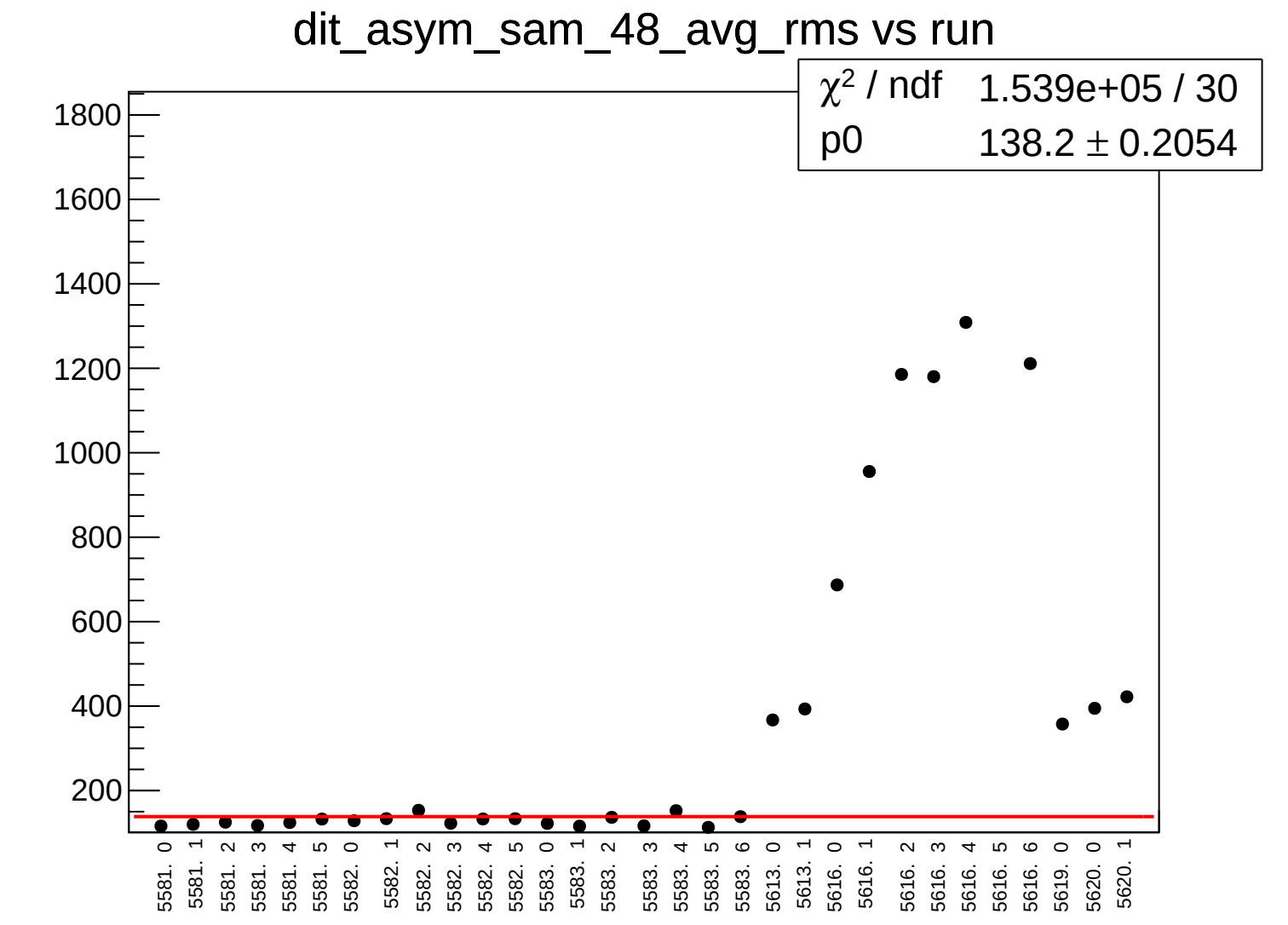

asym_sam_37_avg_mean vs run
χ² / ndf 40.46 / 30
p0 2423 ± 1992
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 11.68
Std Dev 18.49
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

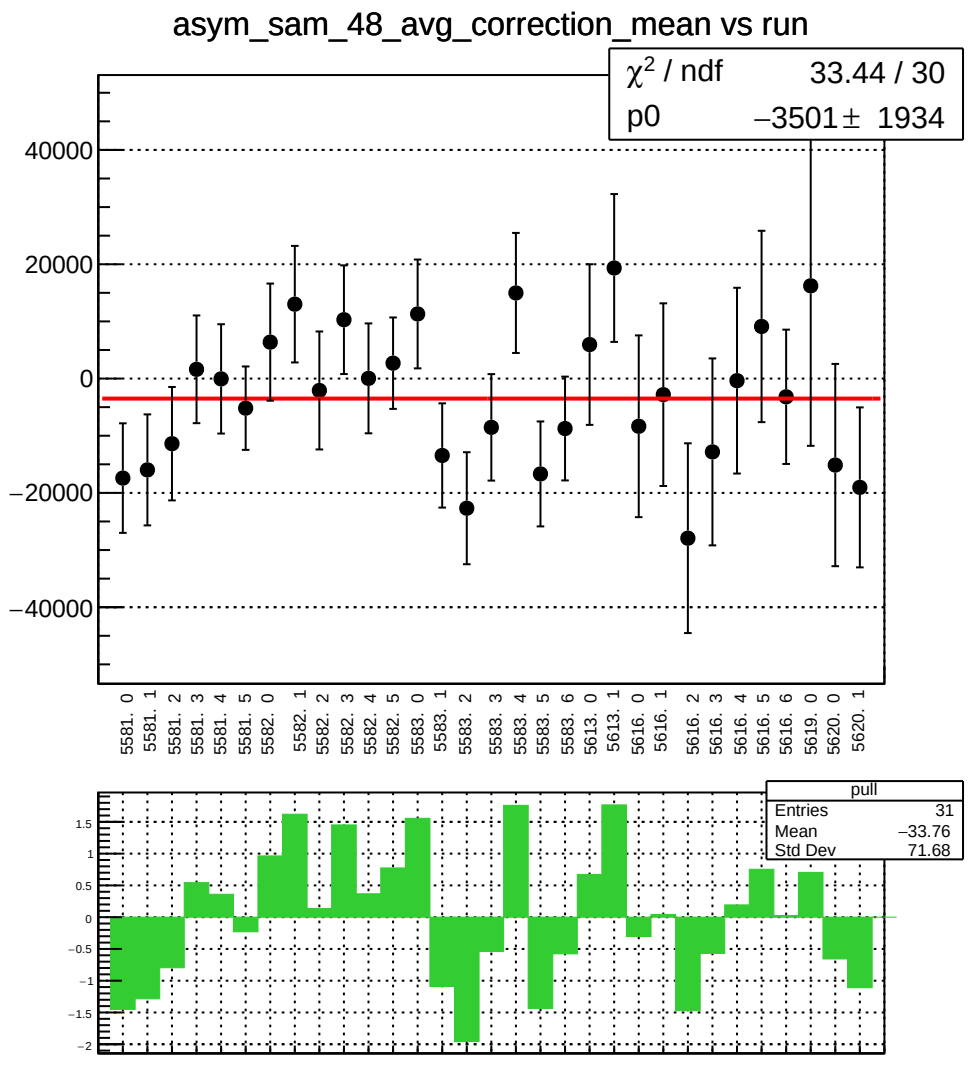

pull1D
Entries 31
Mean −0.04287
Std Dev 1.142
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

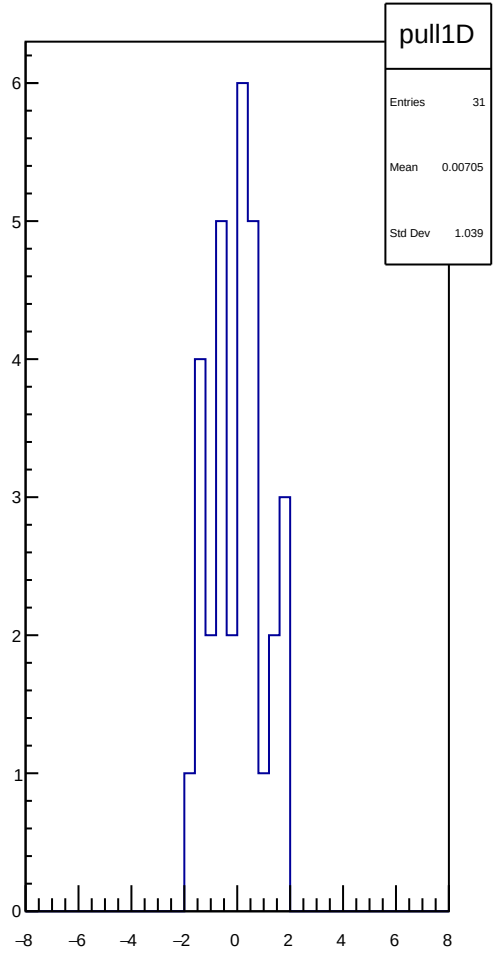

asym_sam_37_avg_rms vs run
χ² / ndf 2.229e+04 / 30
p0 1077 ± 1.409
2000
1800
1600
1400
1200
1000
800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

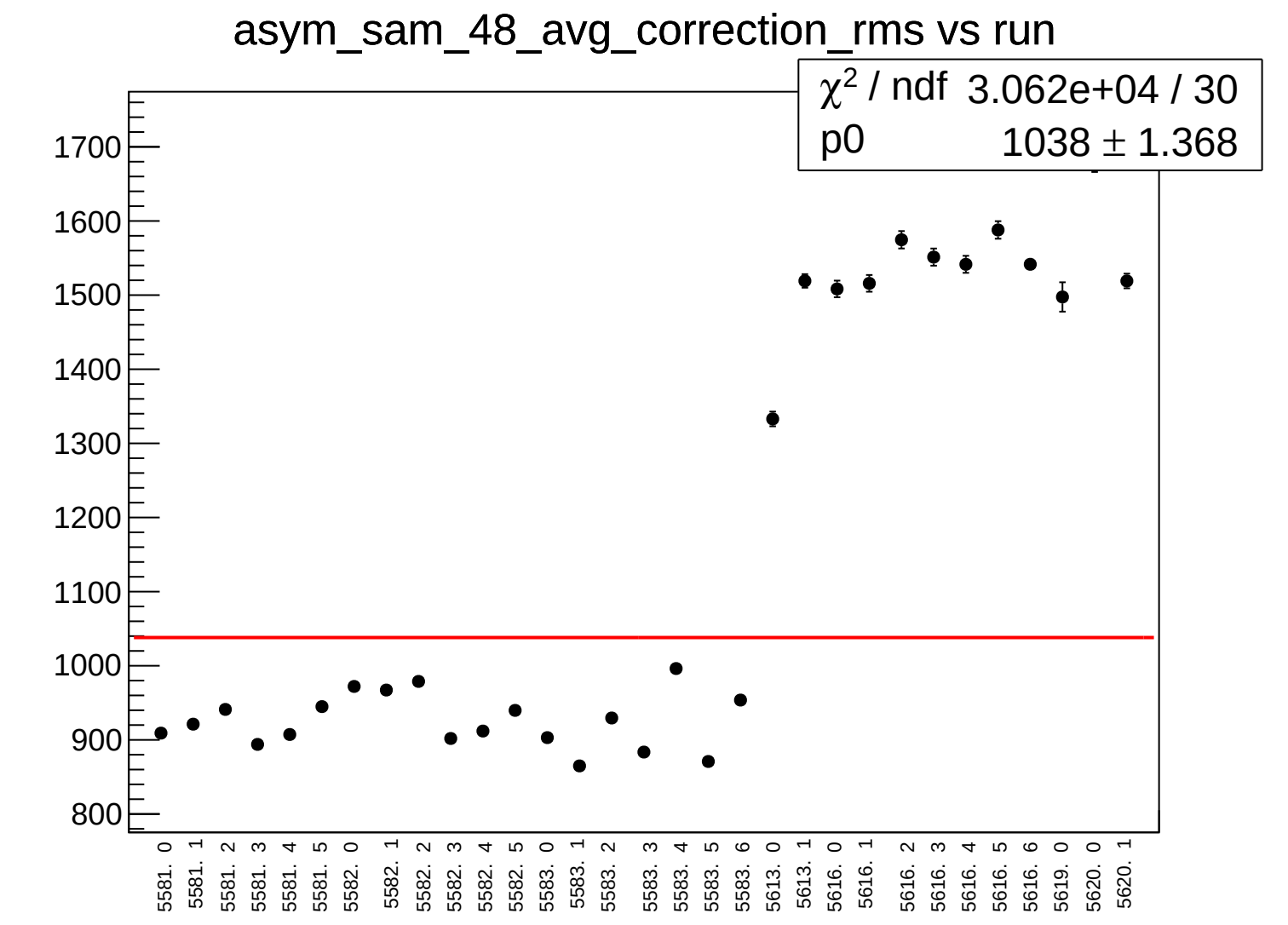

dit_asym_sam_48_avg_mean vs run
χ² / ndf 41.25 / 30
p0 −316.3 ± 290.5
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 27.08
Std Dev 49.55
3
2
1
0
−1
−2
−3

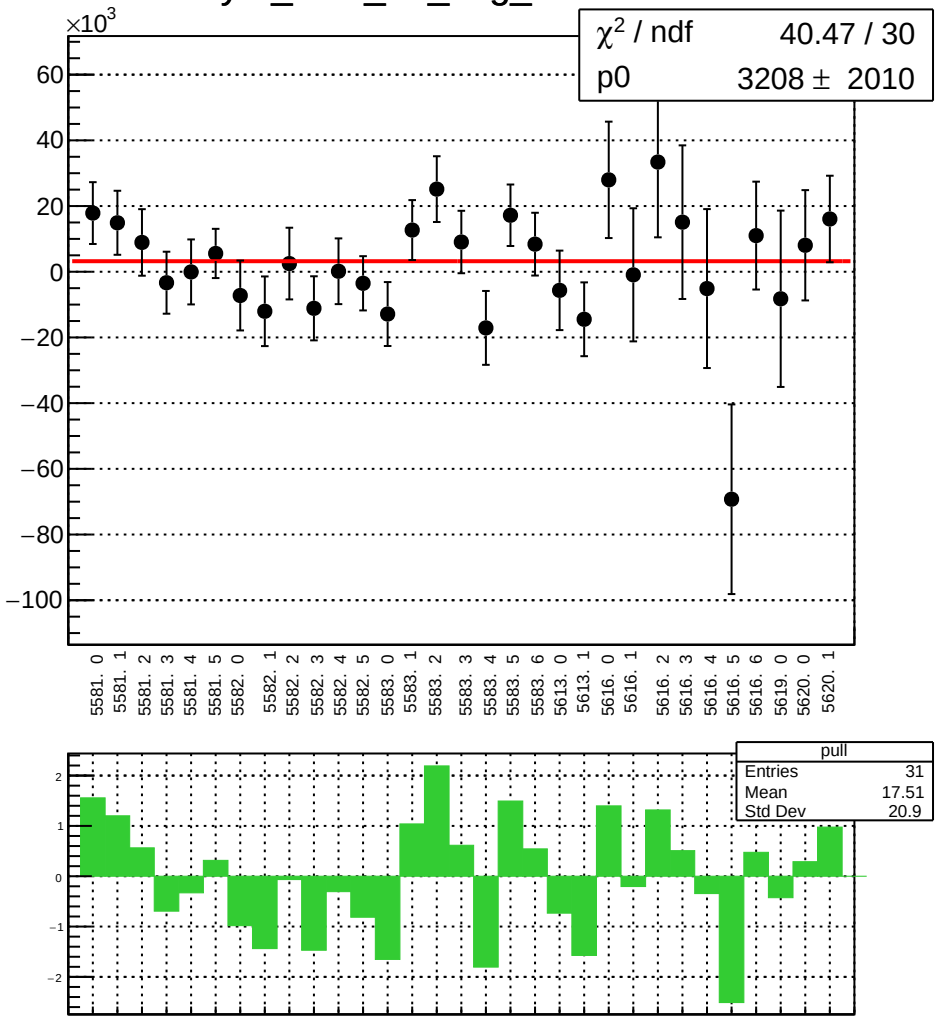

pull1D
Entries 31
Mean 0.009826
Std Dev 1.153
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

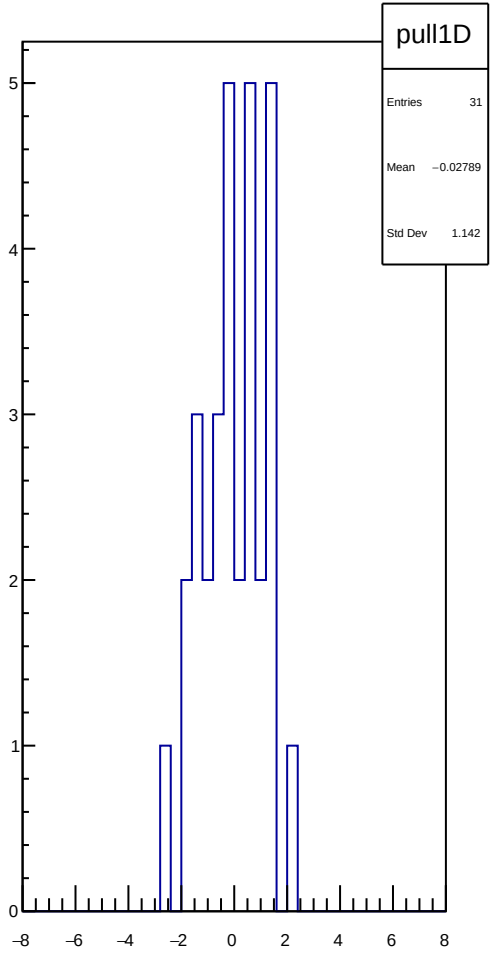

dit_asym_sam_48_avg_rms vs run
χ² / ndf 1.539e+05 / 30
p0 138.2 ± 0.2054
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

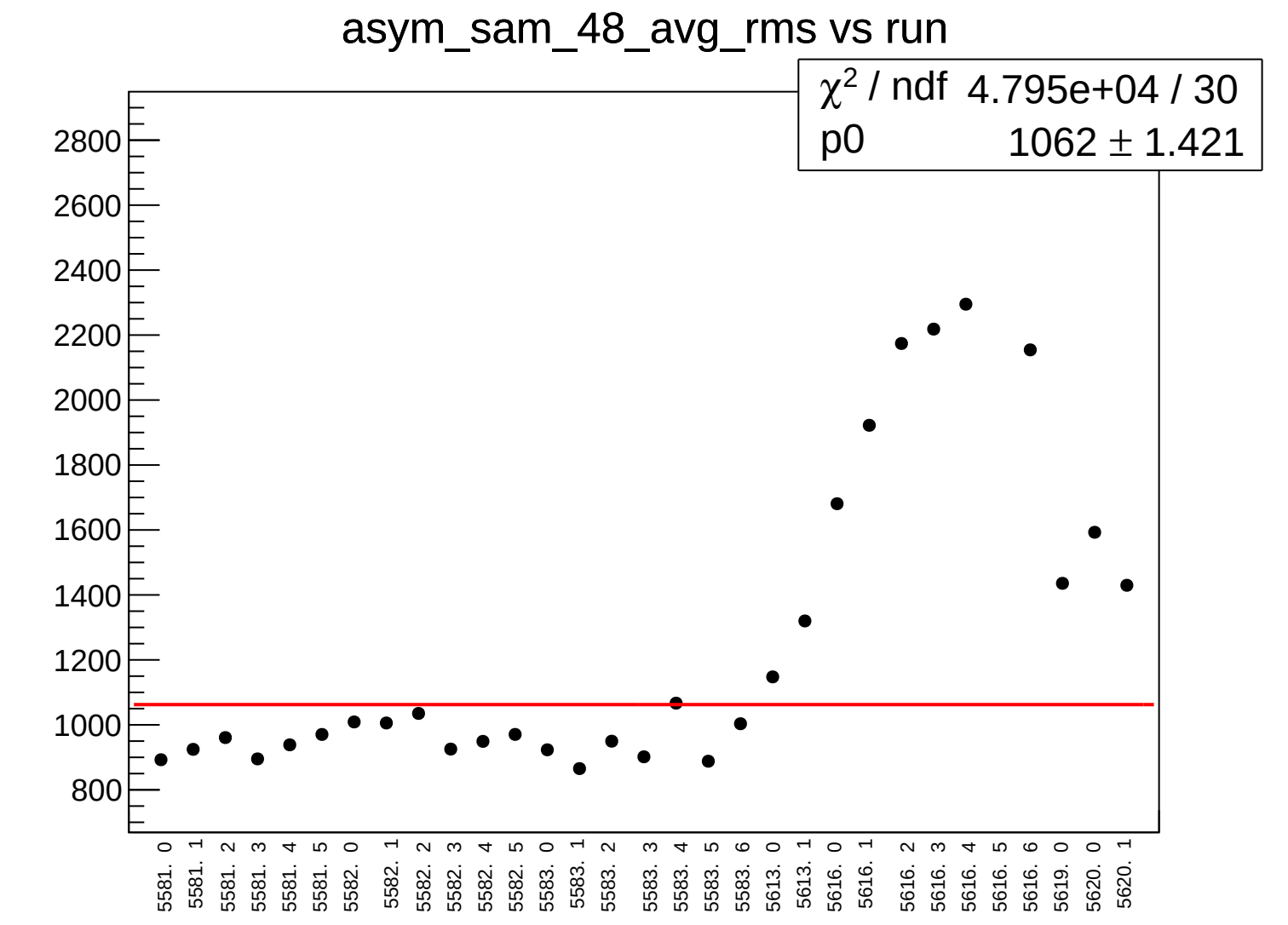

asym_sam_48_avg_correction_mean vs run
χ² / ndf 33.44 / 30
p0 −3501 ± 1934
40000
20000
0
−20000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −33.76
Std Dev 71.68
1.5
1
0.5
0
−0.5
−1
−1.5
−2

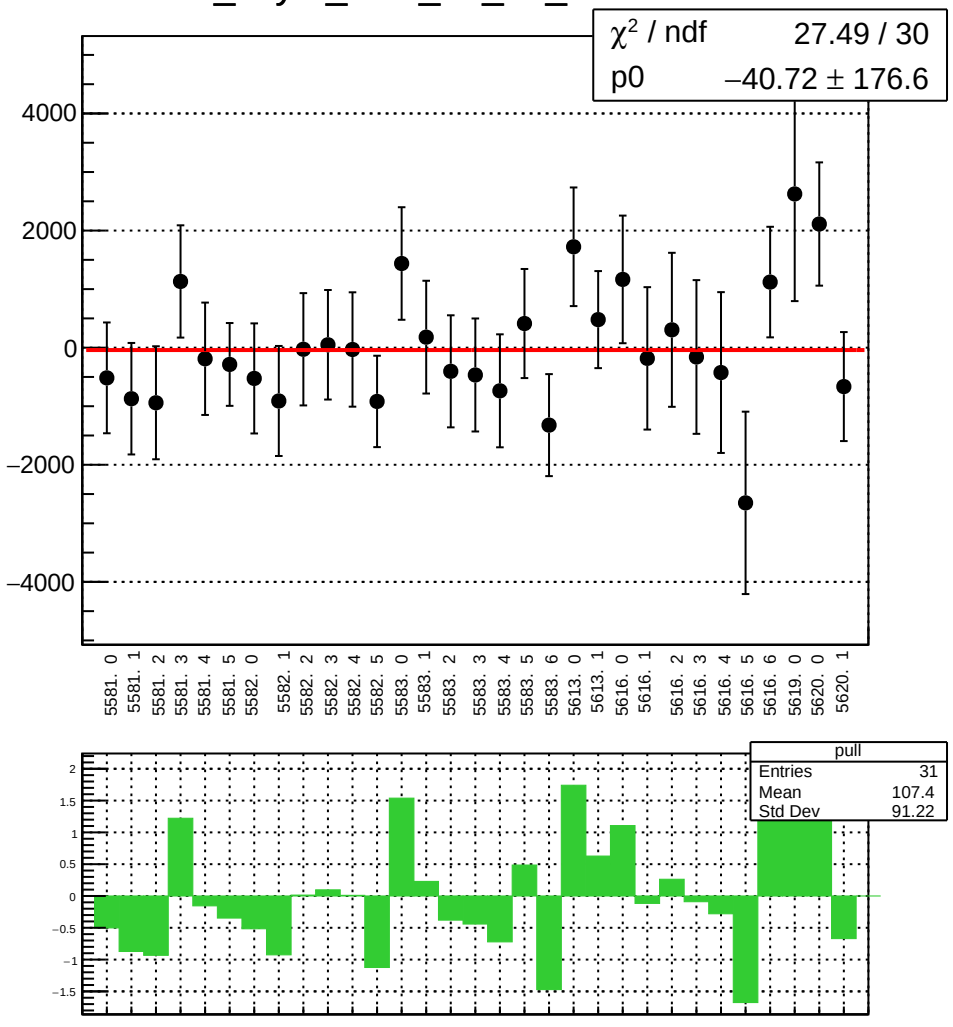

pull1D
Entries 31
Mean 0.00705
Std Dev 1.039
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

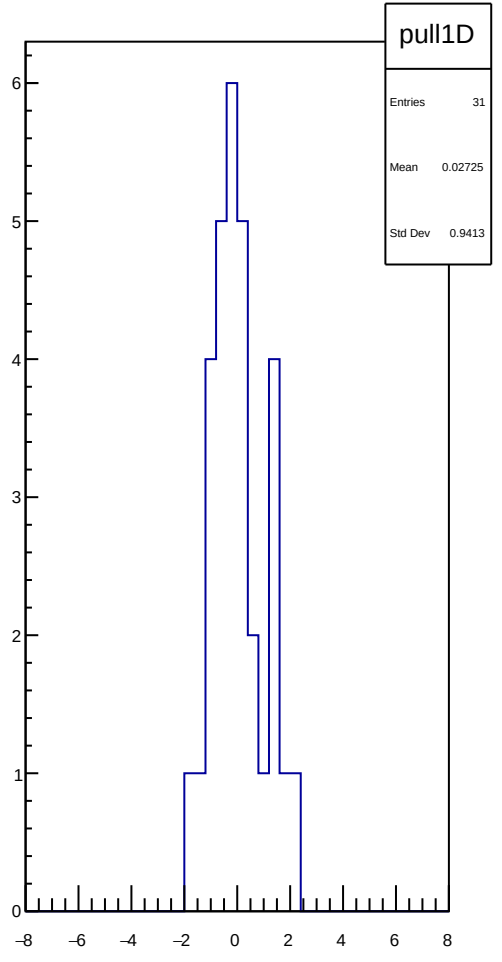

asym_sam_48_avg_correction_rms vs run
χ² / ndf 3.062e+04 / 30
p0 1038 ± 1.368
1700
1600
1500
1400
1300
1200
1100
1000
900
800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

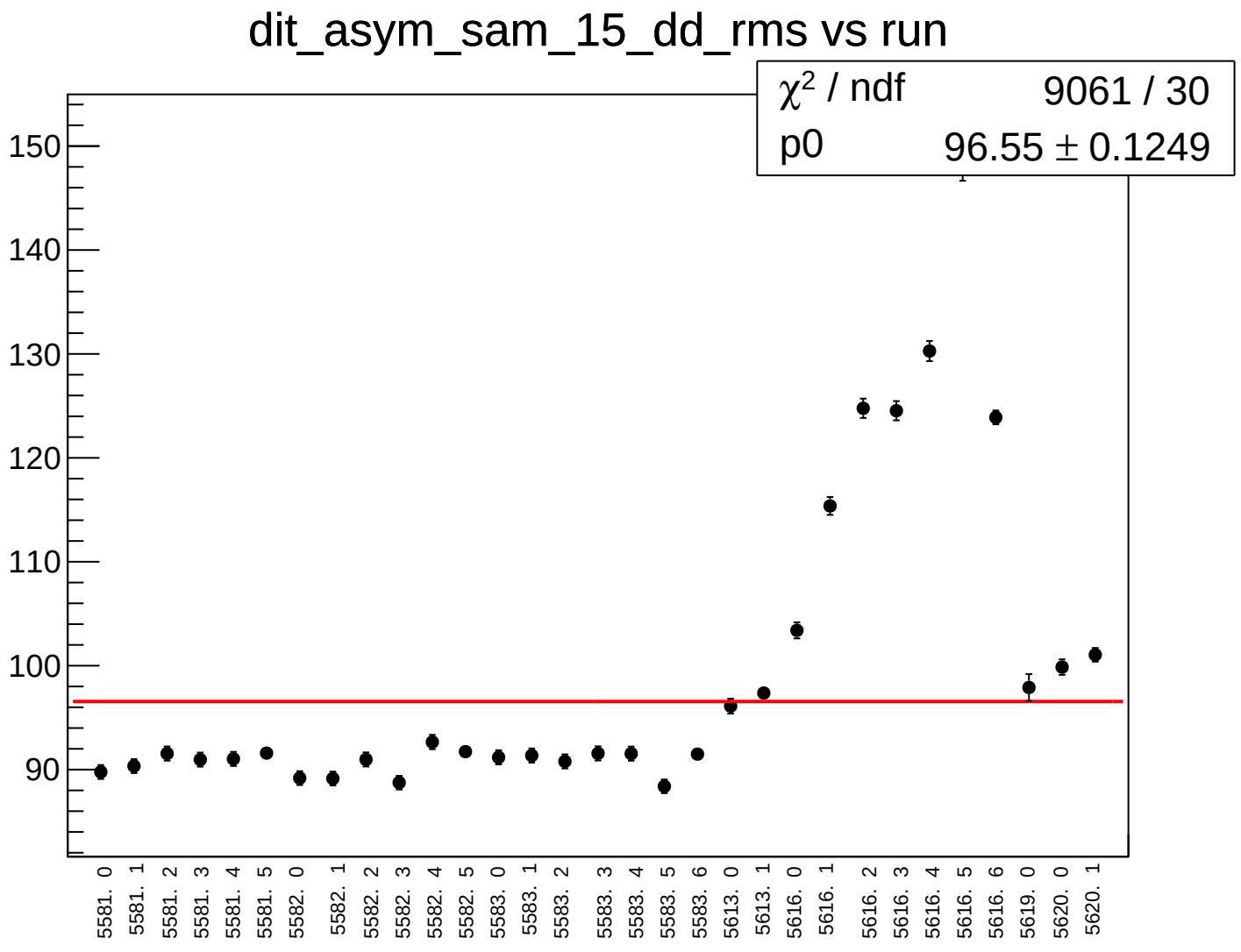

asym_sam_48_avg_mean vs run
×10^3
χ^2 / ndf 40.47 / 30
p0 3208 ± 2010
60
40
20
0
−20
−40
−60
−80
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 17.51
Std Dev 20.9
2
1
0
−1
−2

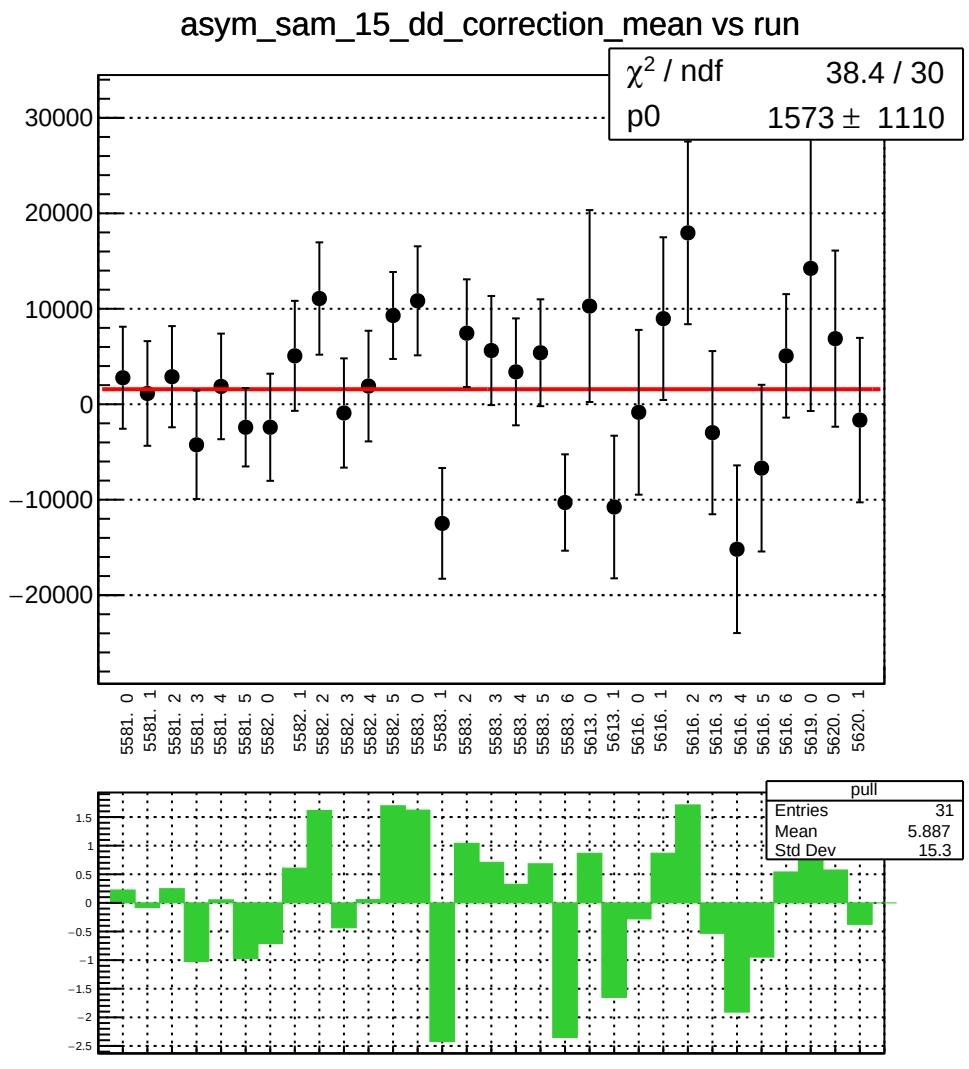

pull1D
Entries 31
Mean −0.02789
Std Dev 1.142
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

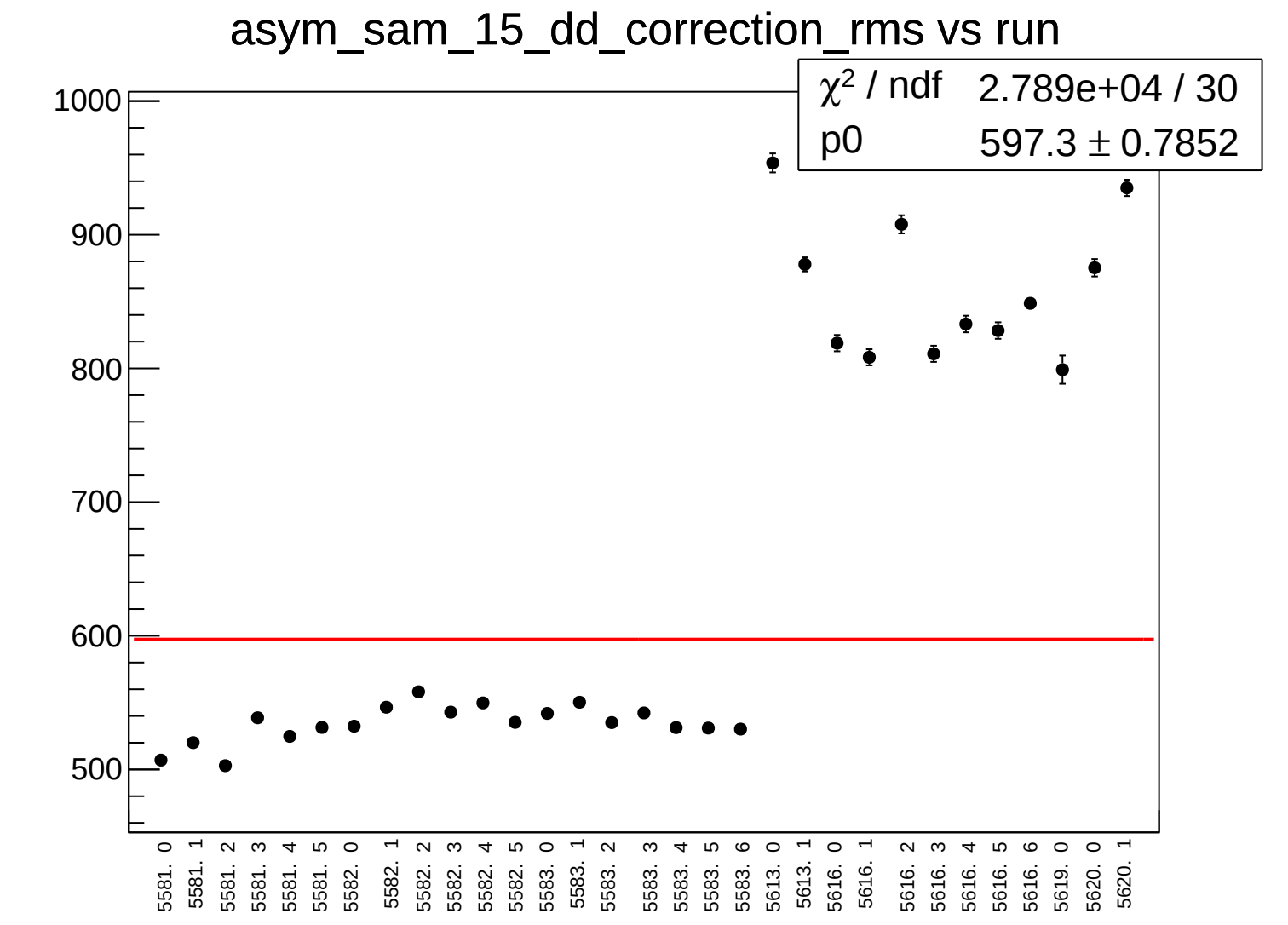

asym_sam_48_avg_rms vs run
χ² / ndf 4.795e+04 / 30
p0 1062 ± 1.421
2800
2600
2400
2200
2000
1800
1600
1400
1200
1000
800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

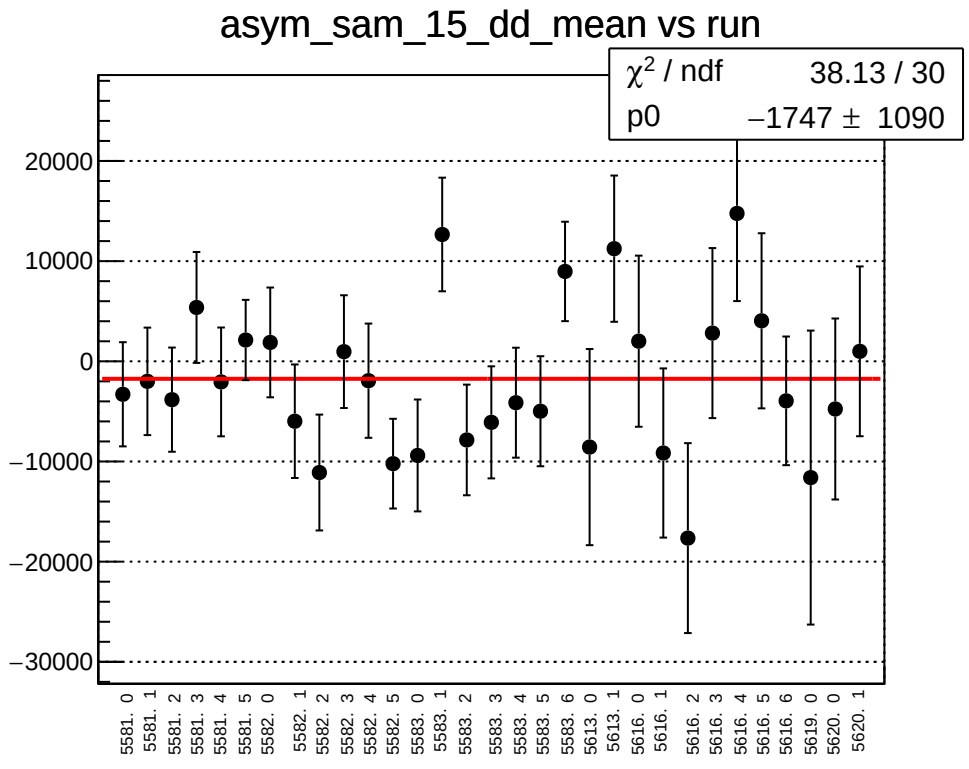

dit_asym_sam_15_dd_mean vs run
χ² / ndf 27.49 / 30
p0 −40.72 ± 176.6
4000
2000
0
−2000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 107.4
Std Dev 91.22
2
1.5
1
0.5
0
−0.5
−1
−1.5

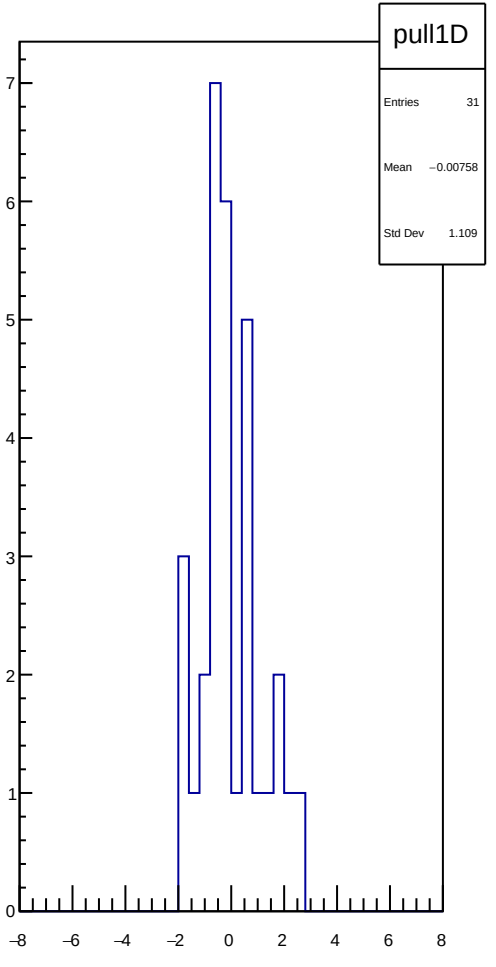

pull1D
Entries 31
Mean 0.02725
Std Dev 0.9413
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

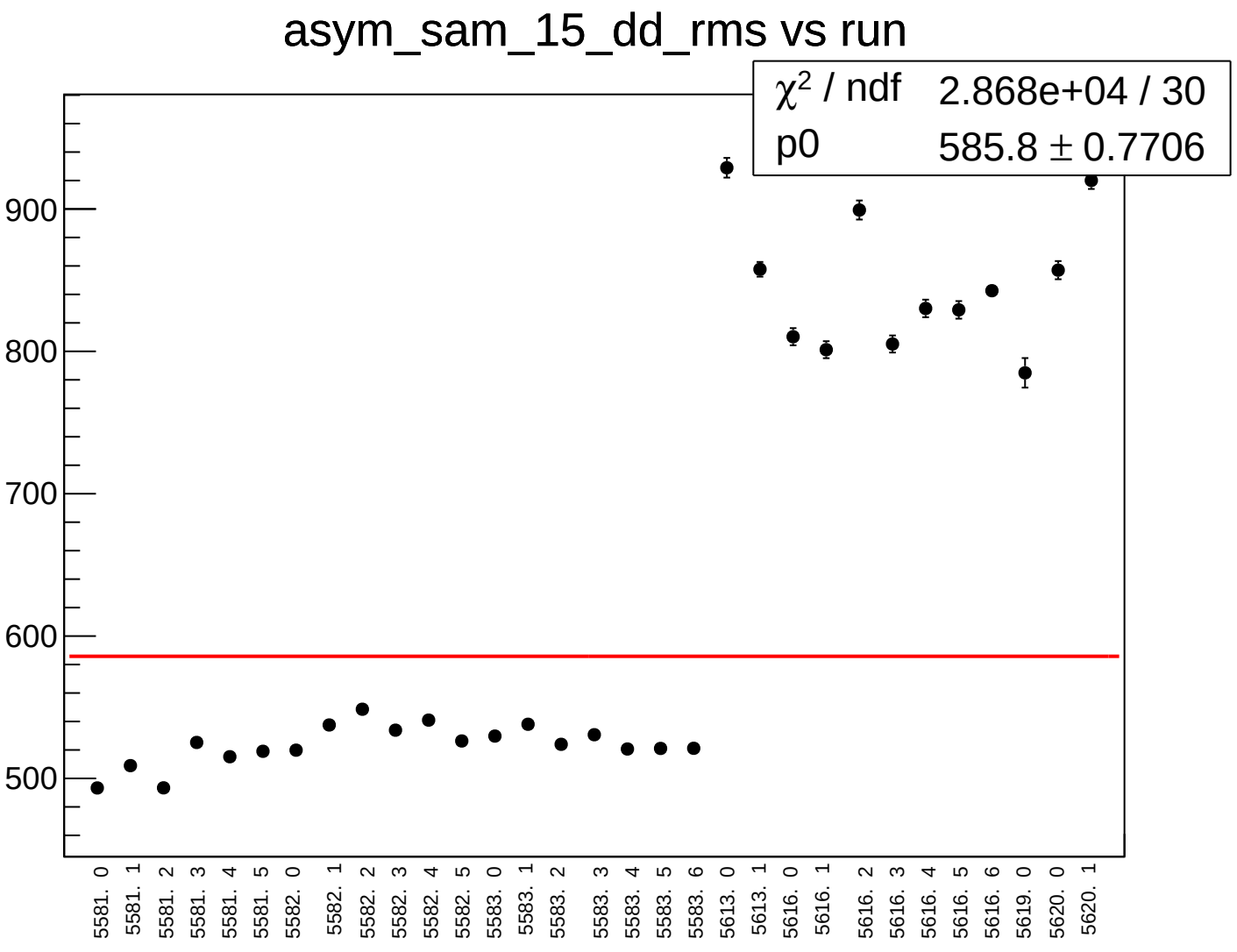

dit_asym_sam_15_dd_rms vs run
χ² / ndf 9061 / 30
p0 96.55 ± 0.1249
150
140
130
120
110
100
90
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

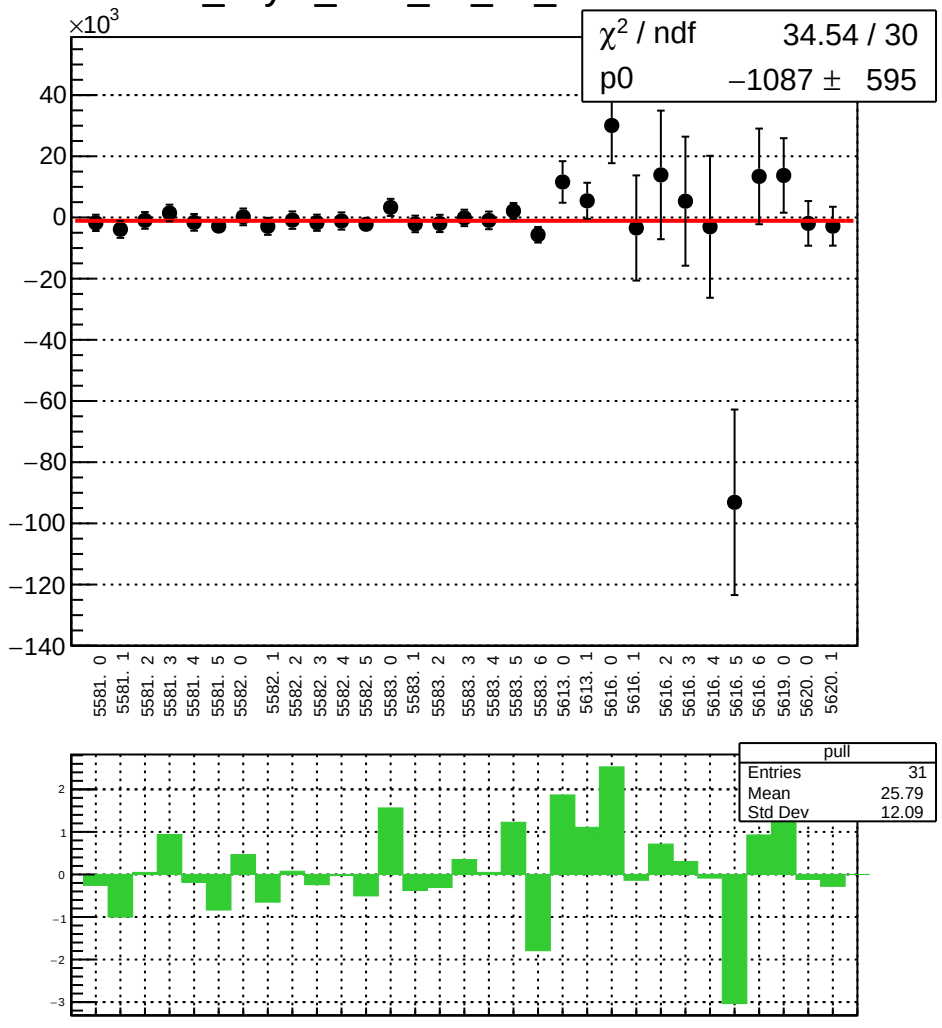

asym_sam_15_dd_correction_mean vs run
χ² / ndf 38.4 / 30
p0 1573 ± 1110
30000
20000
10000
0
−10000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 5.887
Std Dev 15.3
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 31
Mean 0.01938
Std Dev 1.113
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

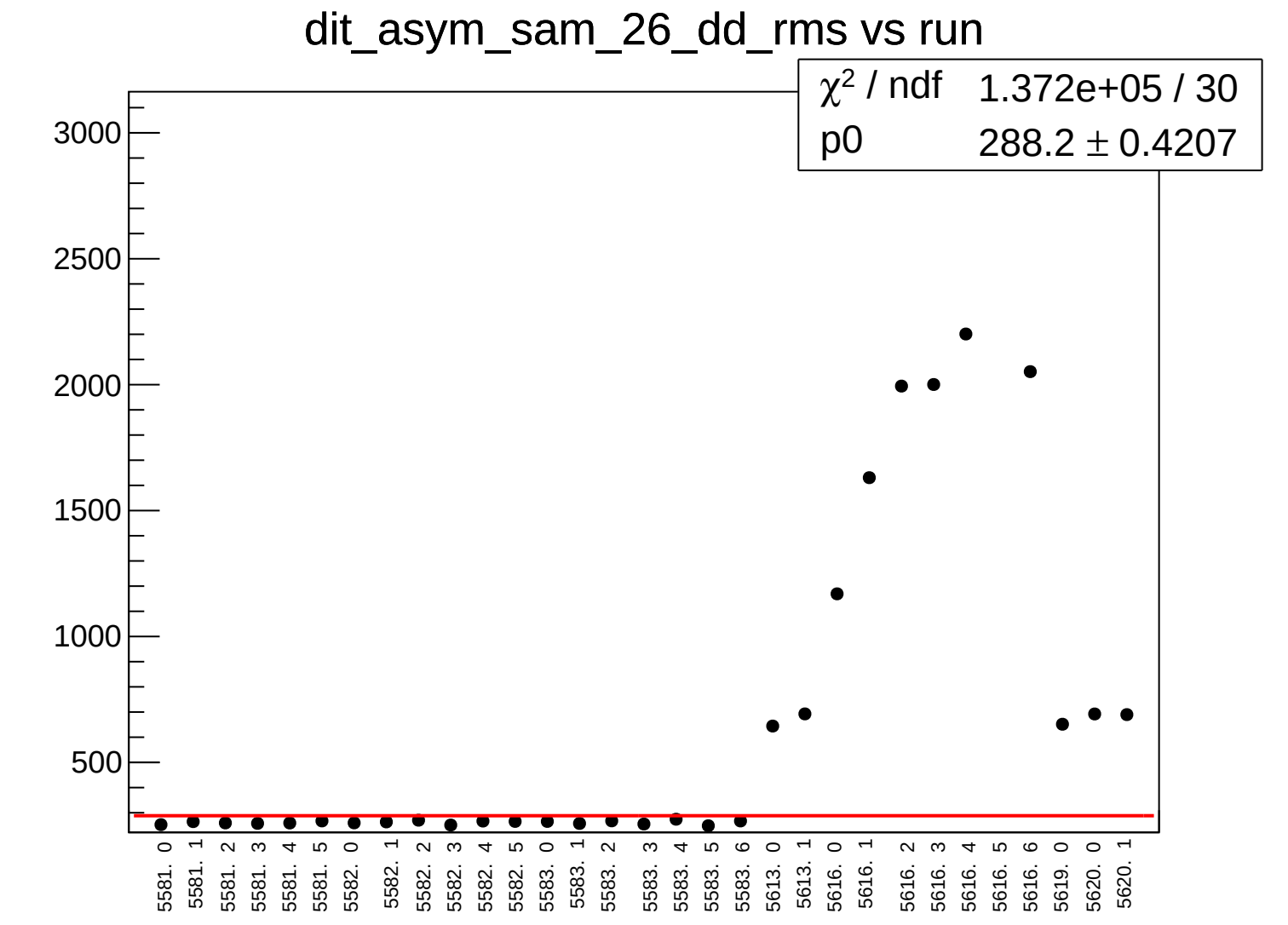

asym_sam_15_dd_correction_rms vs run
χ² / ndf 2.789e+04 / 30
p0 597.3 ± 0.7852
1000
900
800
700
600
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

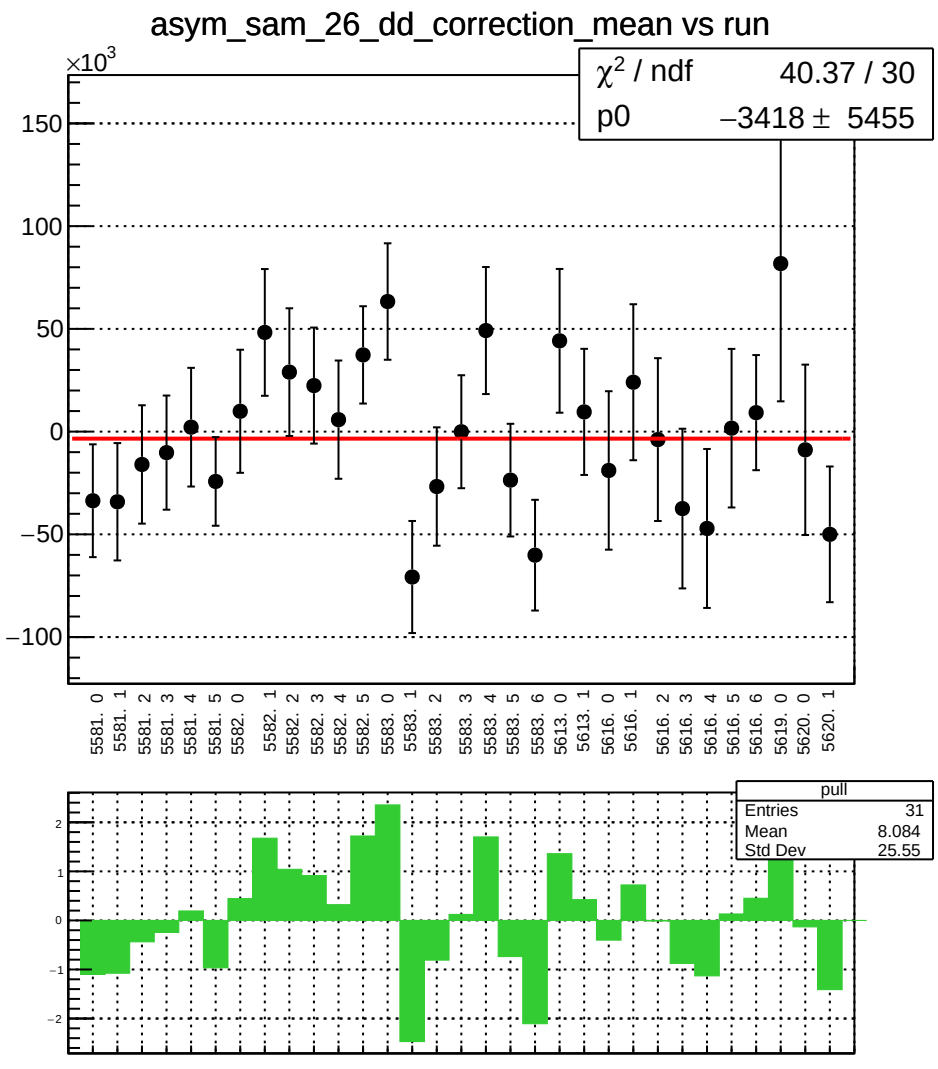

asym_sam_15_dd_mean vs run
χ² / ndf 38.13 / 30
p0 −1747 ± 1090
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −46.4
Std Dev 65.69
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

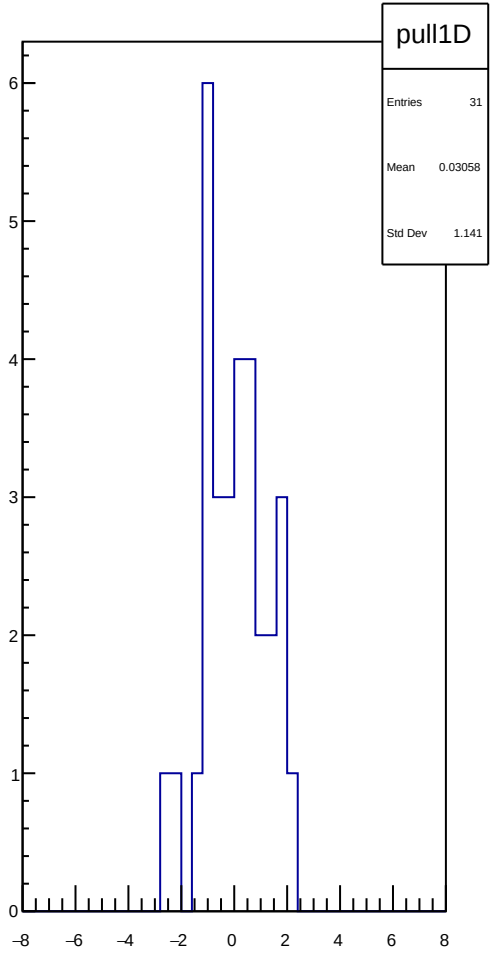

pull1D
Entries 31
Mean −0.00758
Std Dev 1.109
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

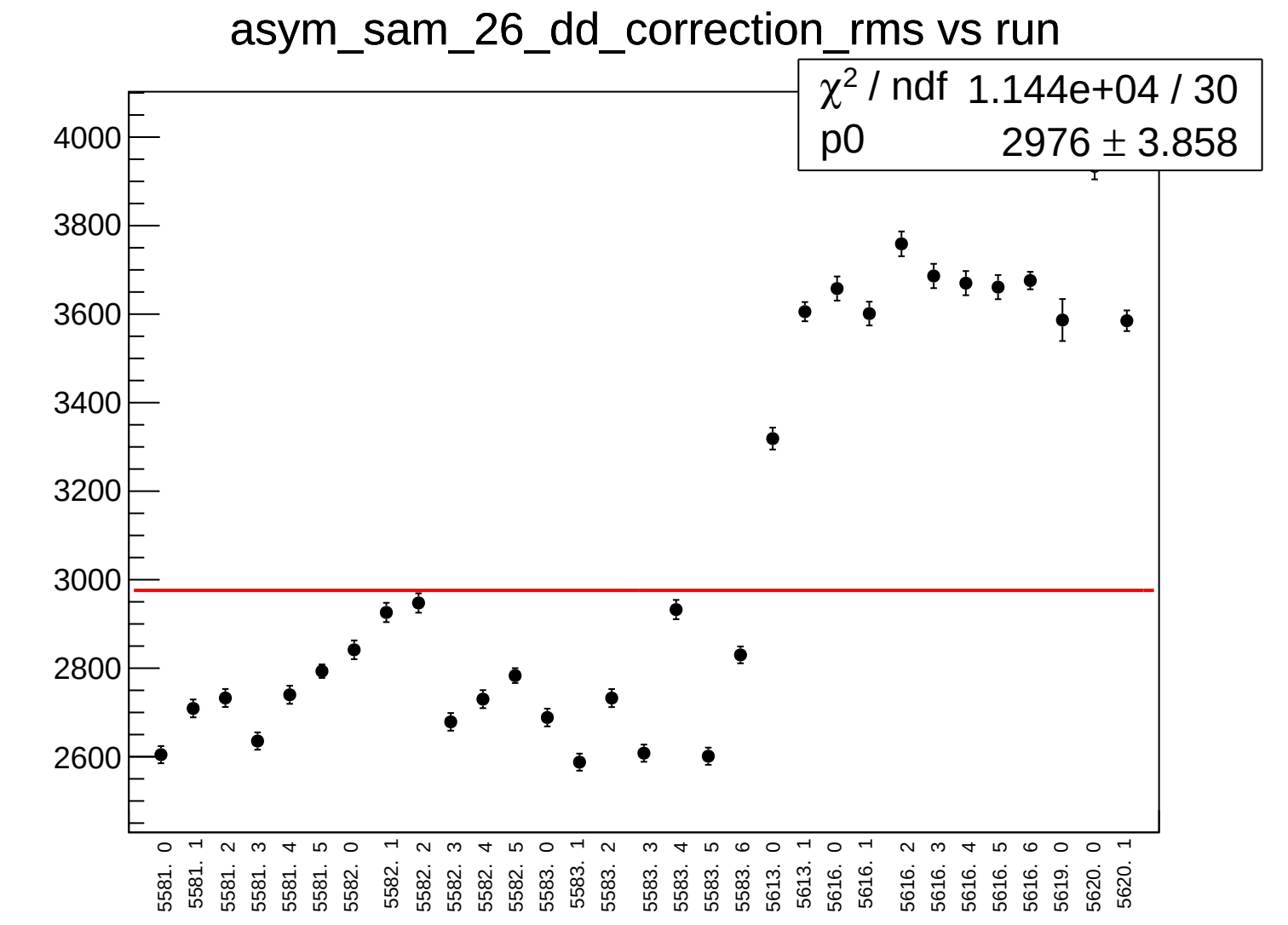

asym_sam_15_dd_rms vs run
χ² / ndf 2.868e+04 / 30
p0 585.8 ± 0.7706
900
800
700
600
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

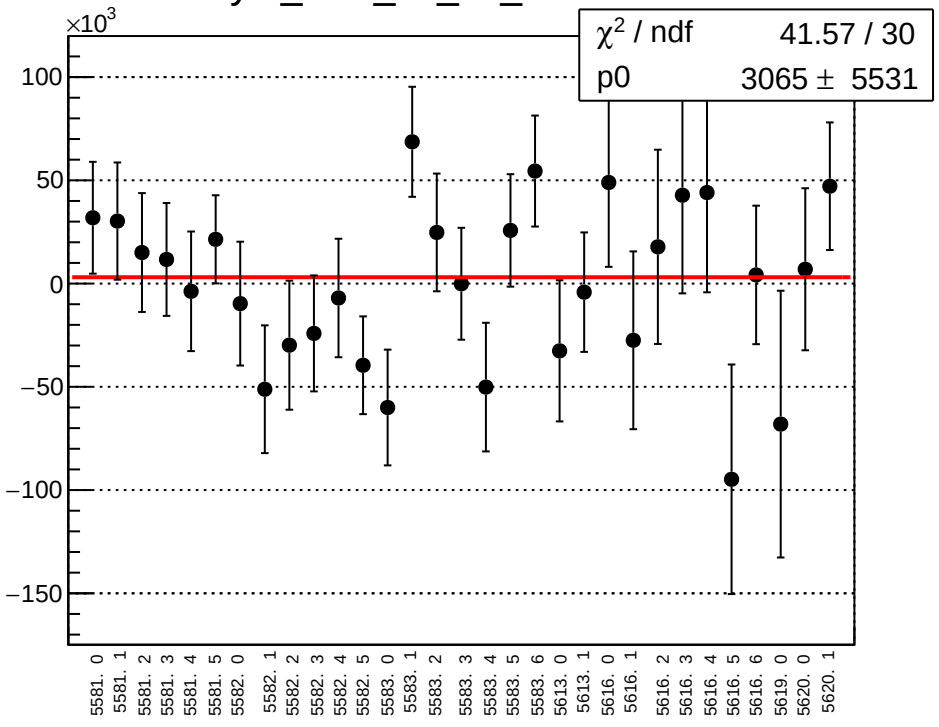

dit_asym_sam_26_dd_mean vs run
×10^3
χ² / ndf 34.54 / 30
p0 −1087 ± 595
40
20
0
−20
−40
−60
−80
−100
−120
−140
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 25.79
Std Dev 12.09
2
1
0
−1
−2
−3
pull1D
Entries 31
Mean 0.1145
Std Dev 1.049
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

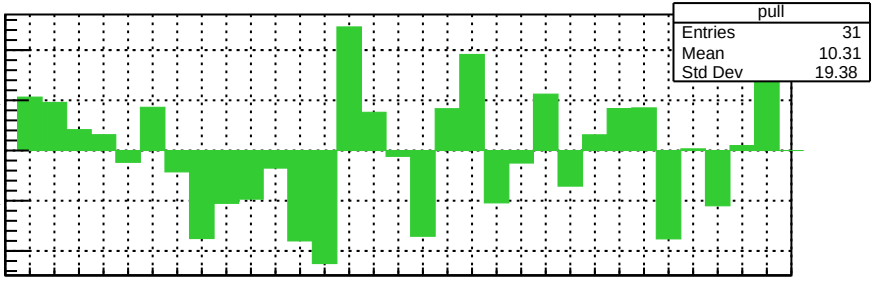

dit_asym_sam_26_dd_rms vs run
χ² / ndf 1.372e+05 / 30
p0 288.2 ± 0.4207
3000
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

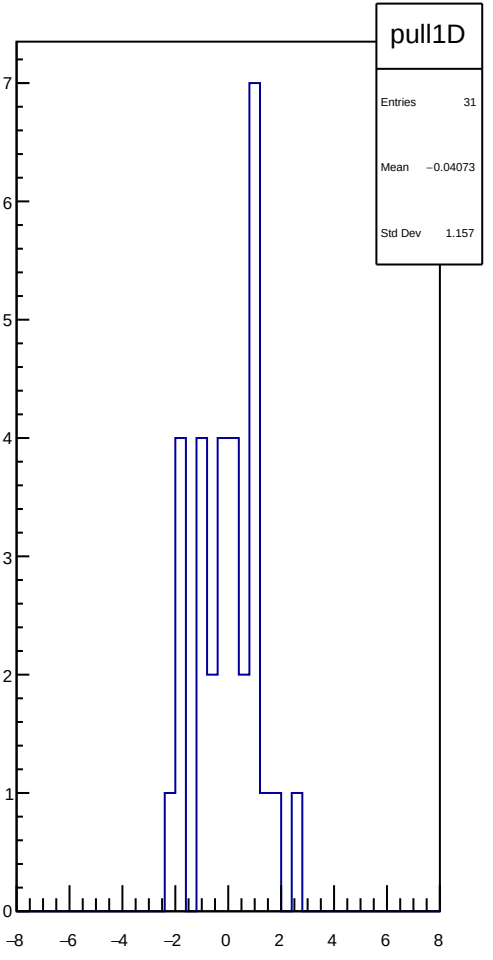

asym_sam_26_dd_correction_mean vs run
×10^3
χ^2 / ndf 40.37 / 30
p0 −3418 ± 5455
150
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 8.084
Std Dev 25.55
2
1
0
−1
−2

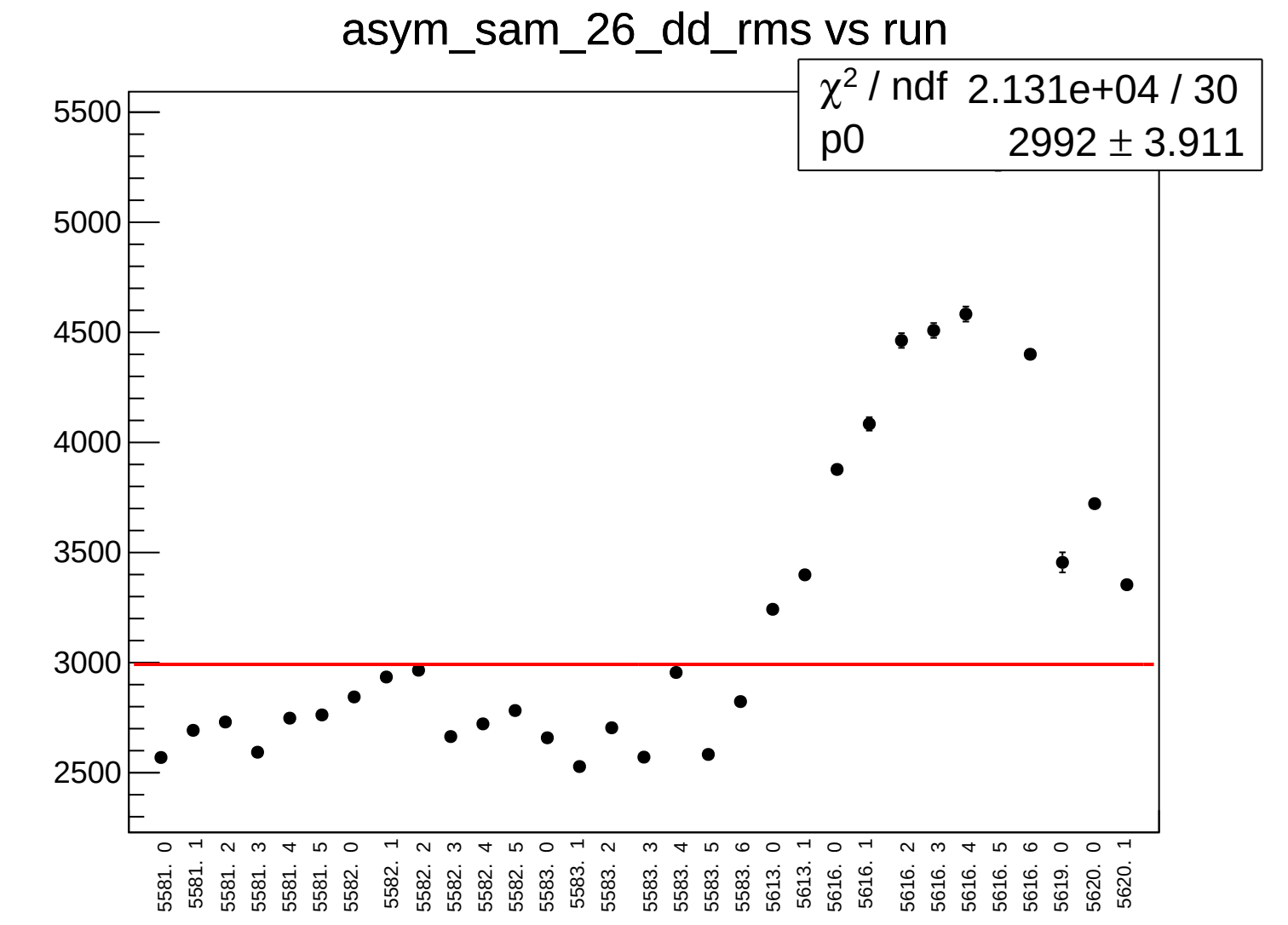

pull1D
Entries 31
Mean 0.03058
Std Dev 1.141
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

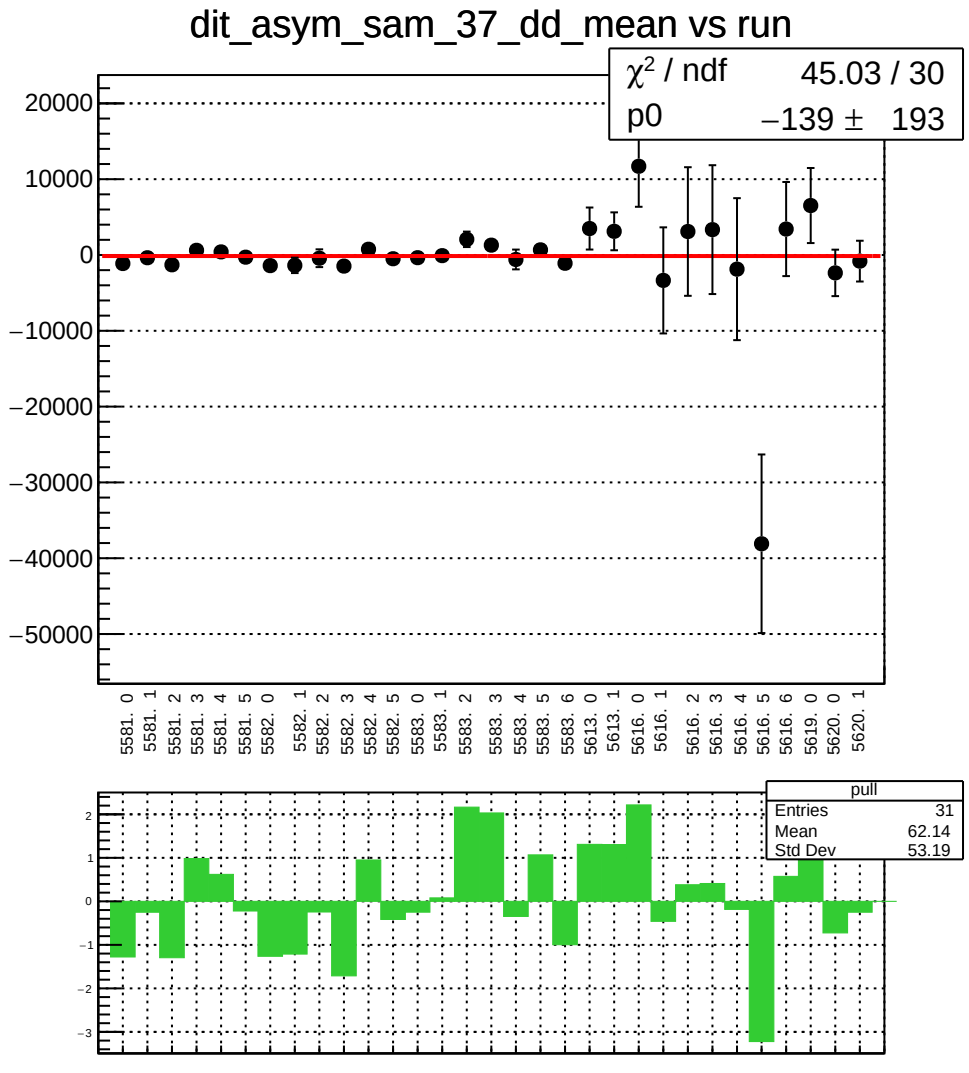

asym_sam_26_dd_correction_rms vs run
χ² / ndf 1.144e+04 / 30
p0 2976 ± 3.858
4000
3800
3600
3400
3200
3000
2800
2600
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

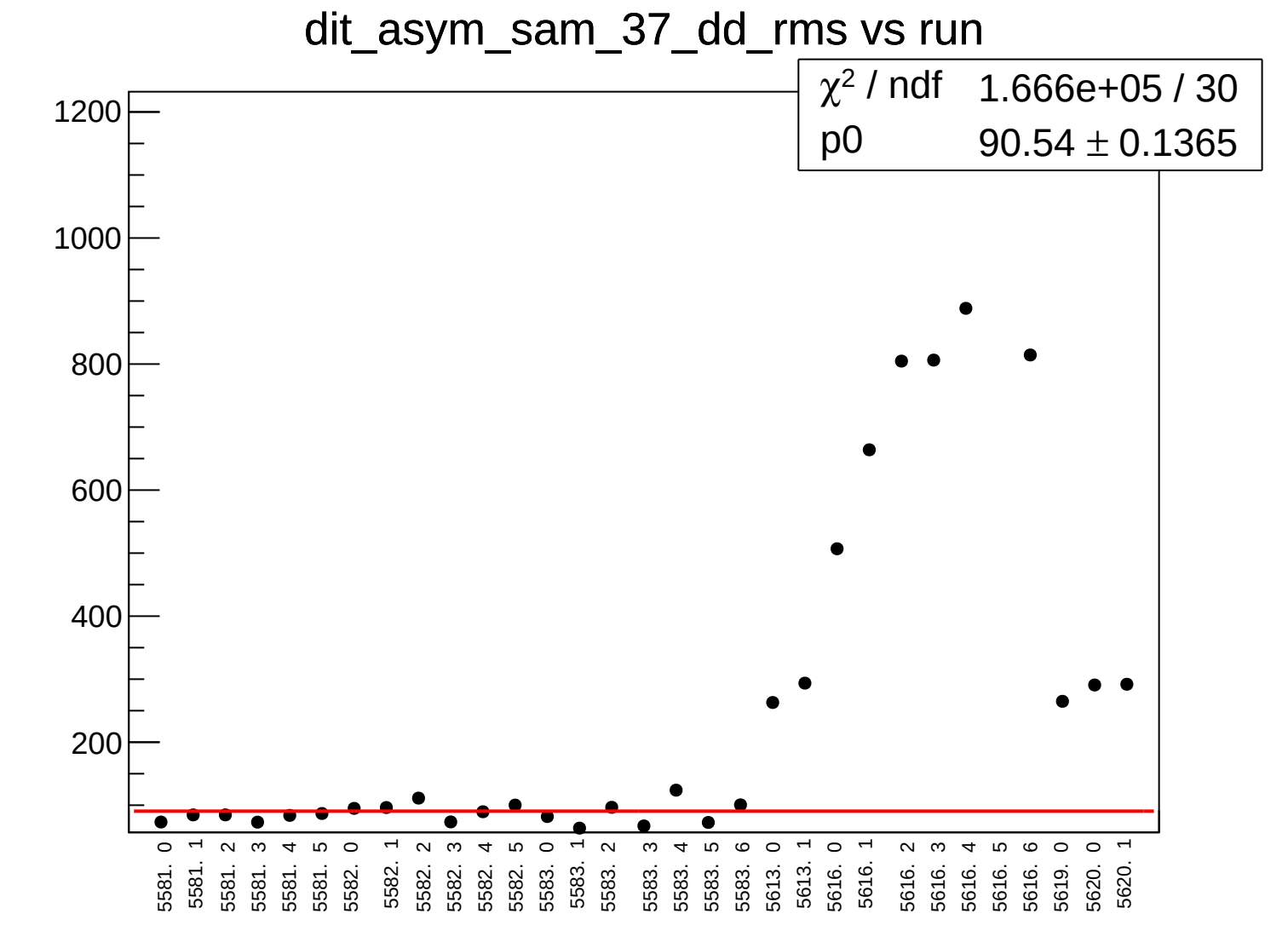

asym_sam_26_dd_mean vs run
×10^3
χ² / ndf 41.57 / 30
p0 3065 ± 5531
100
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

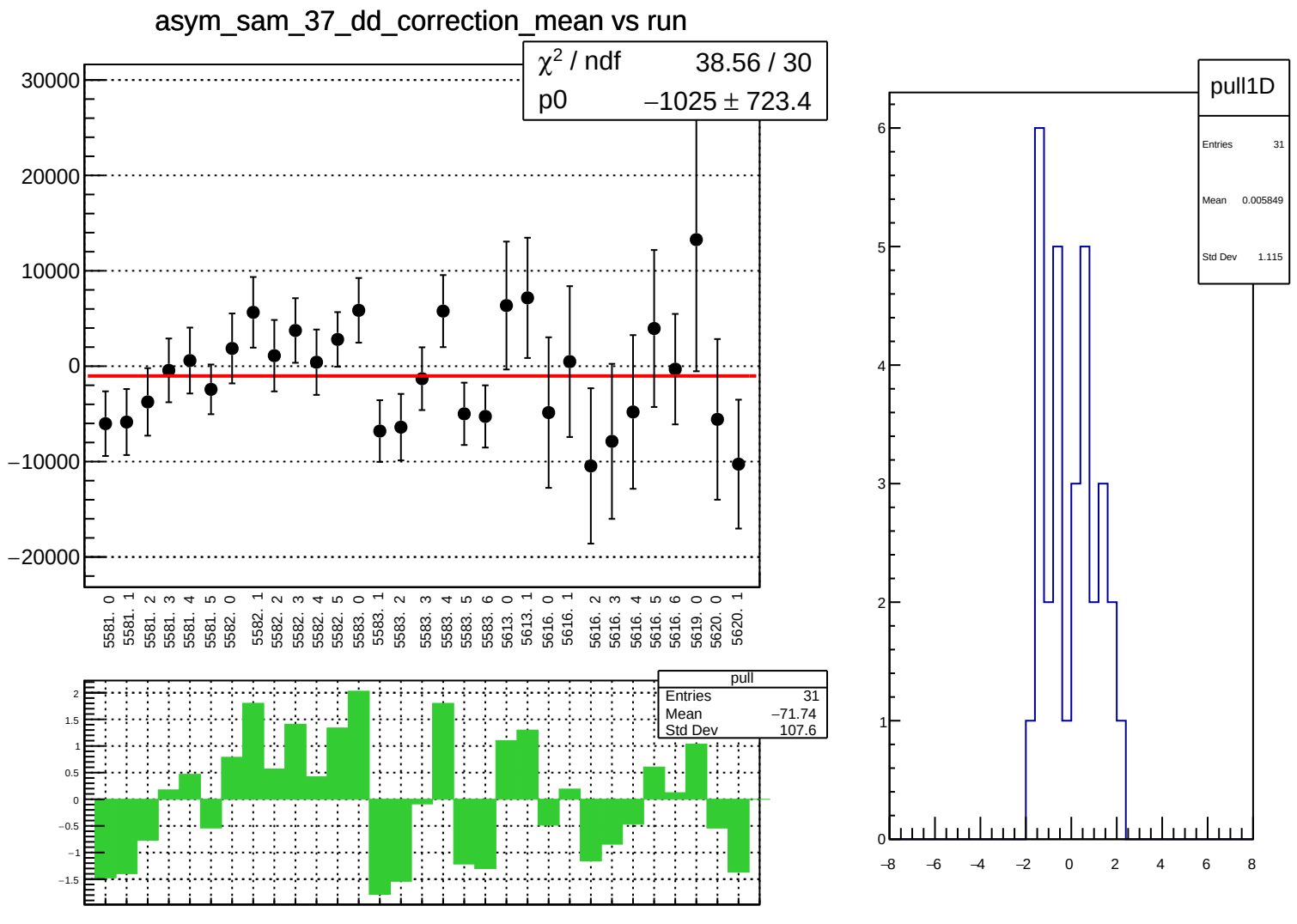

pull
Entries 31
Mean 10.31
Std Dev 19.38
2
1
0
−1
−2

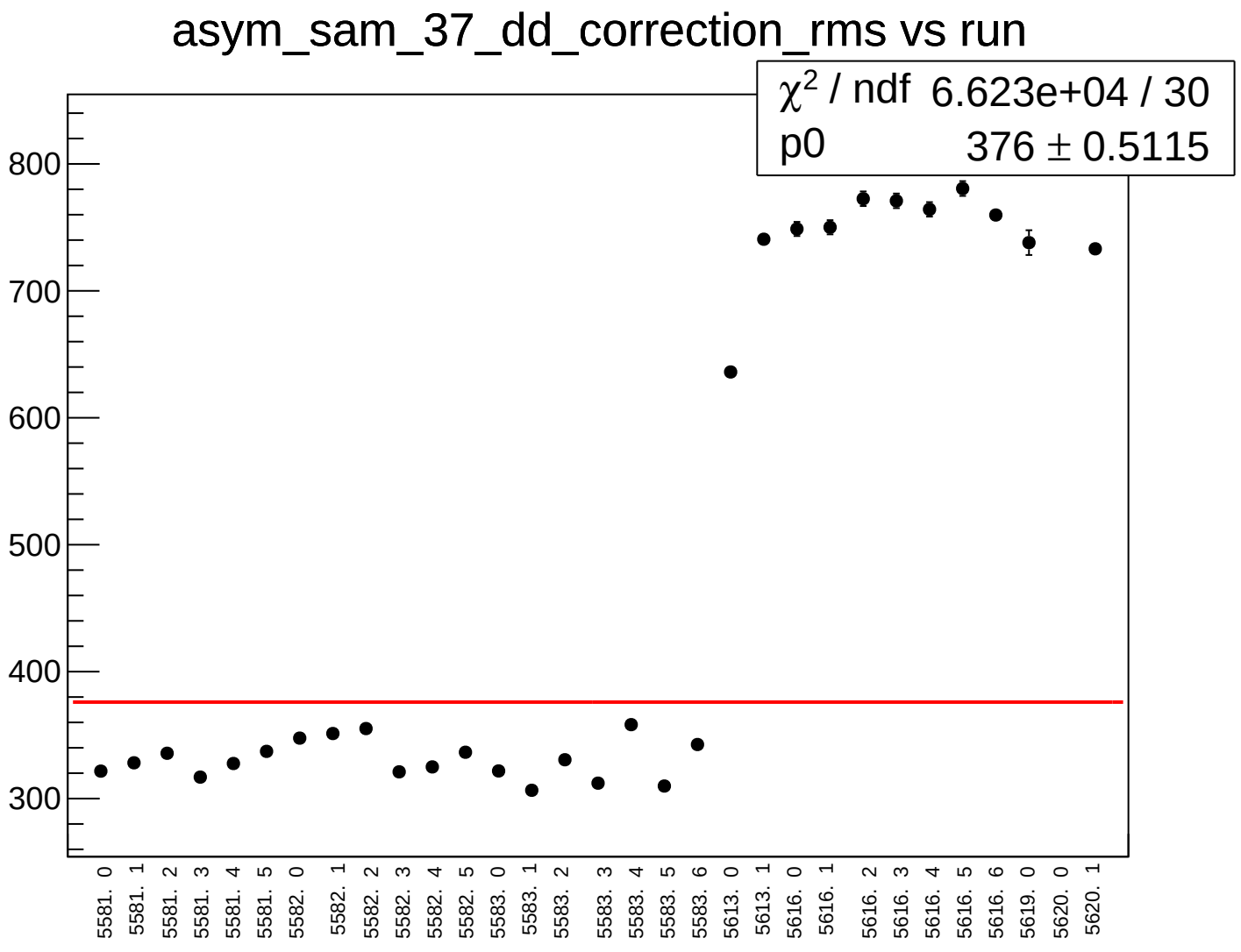

pull1D
Entries 31
Mean −0.04073
Std Dev 1.157
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

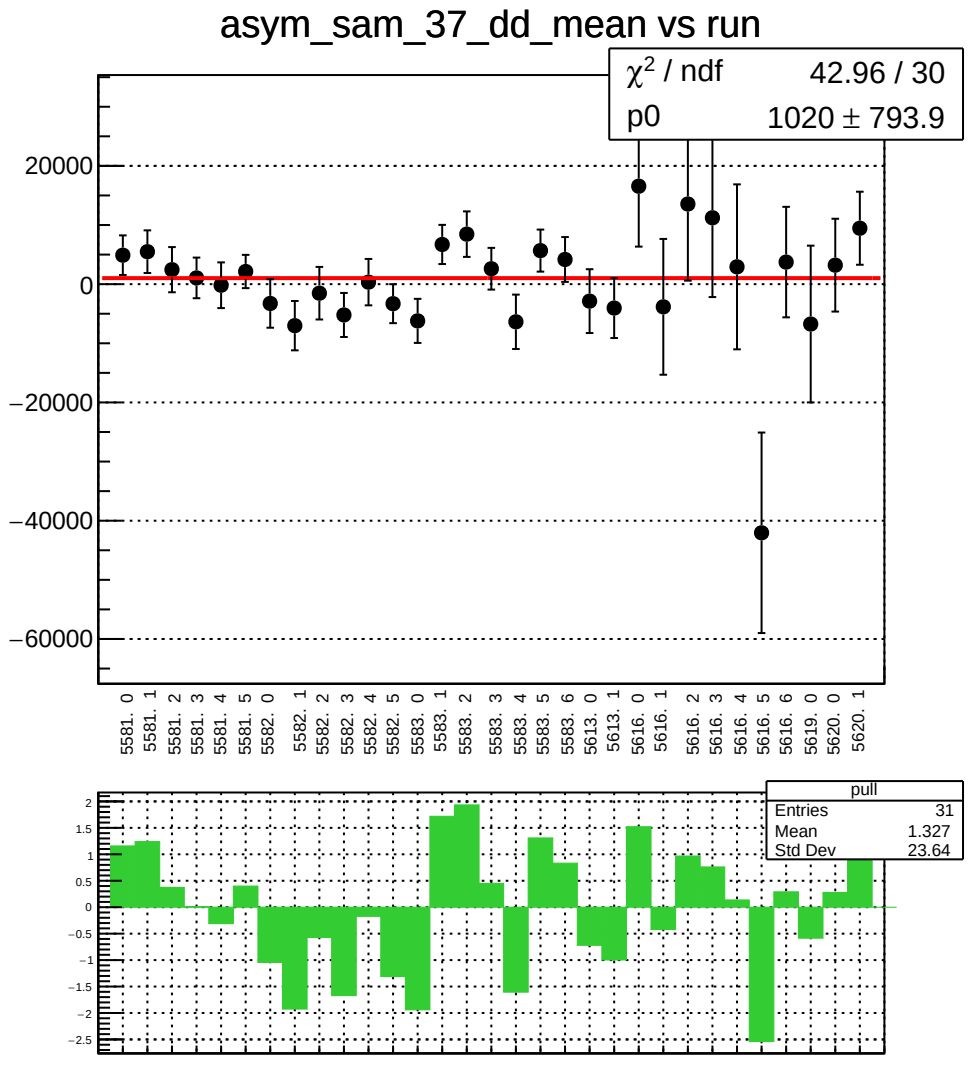

asym_sam_26_dd_rms vs run
χ² / ndf 2.131e+04 / 30
p0 2992 ± 3.911
5500
5000
4500
4000
3500
3000
2500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

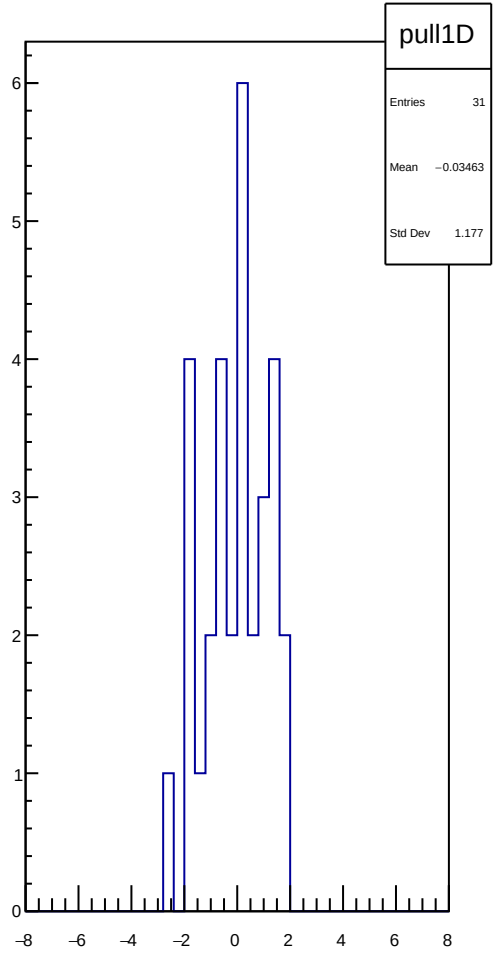

dit_asym_sam_37_dd_mean vs run
χ² / ndf 45.03 / 30
p0 −139 ± 193
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 62.14
Std Dev 53.19
2
1
0
−1
−2
−3
pull1D
Entries 31
Mean 0.03601
Std Dev 1.205
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

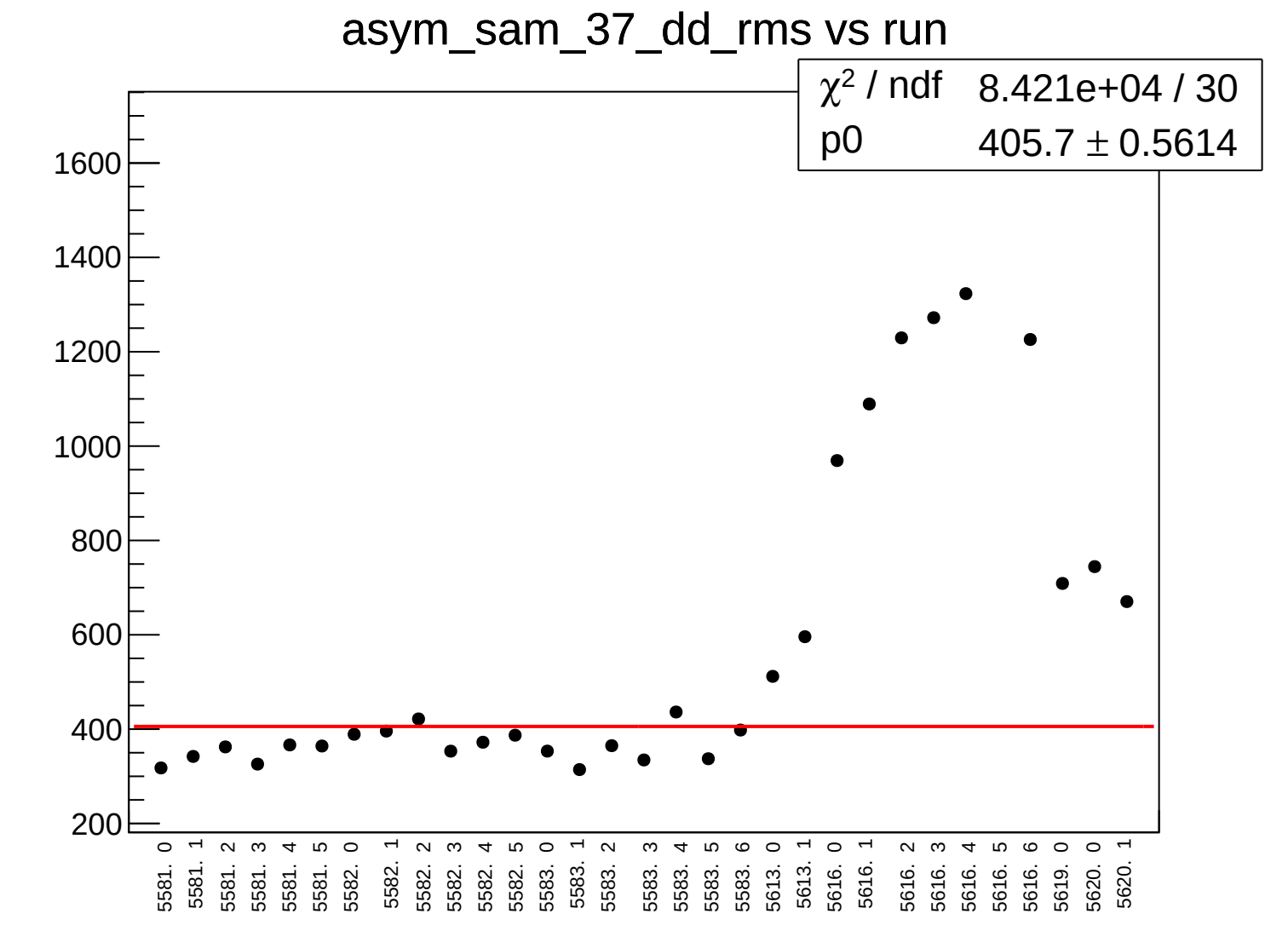

dit_asym_sam_37_dd_rms vs run
χ² / ndf 1.666e+05 / 30
p0 90.54 ± 0.1365
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

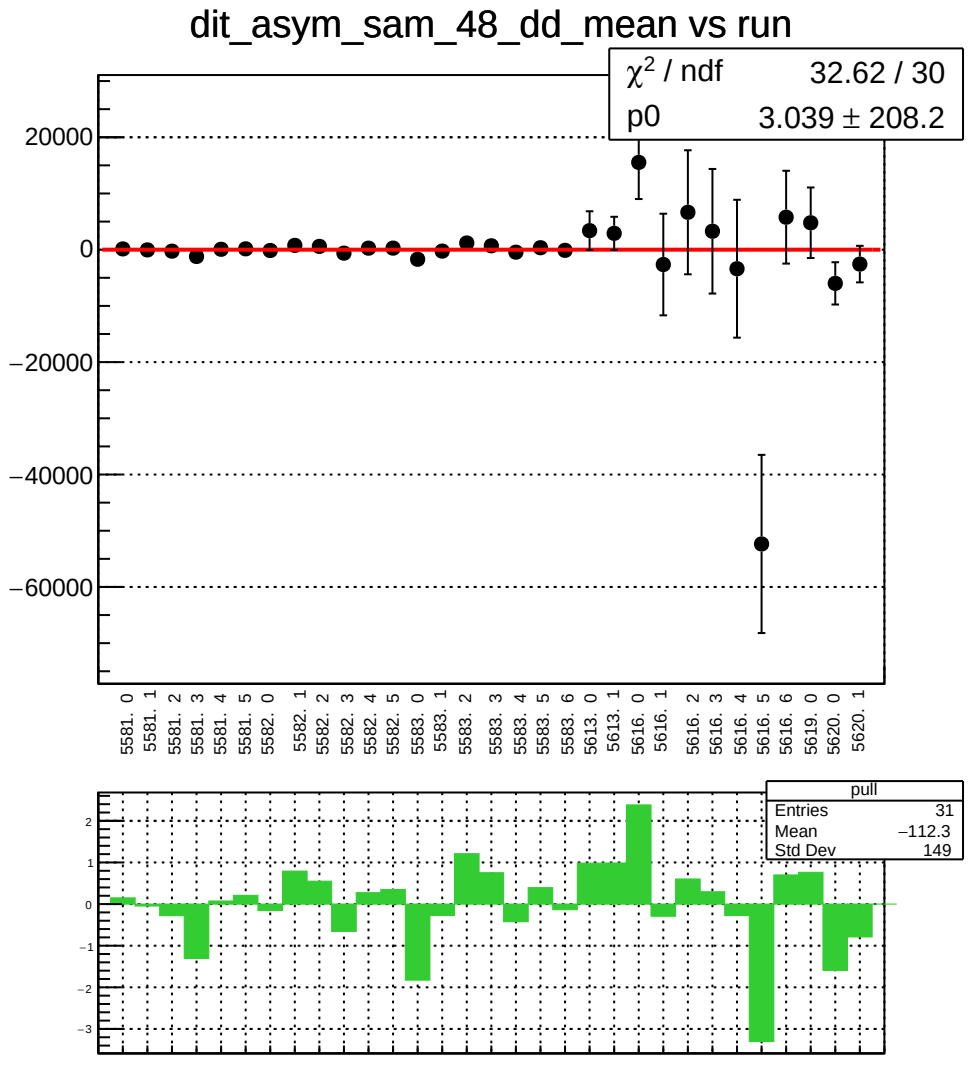

asym_sam_37_dd_correction_mean vs run
χ² / ndf 38.56 / 30
p0 −1025 ± 723.4
30000
20000
10000
0
−10000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −71.74
Std Dev 107.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.005849
Std Dev 1.115
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

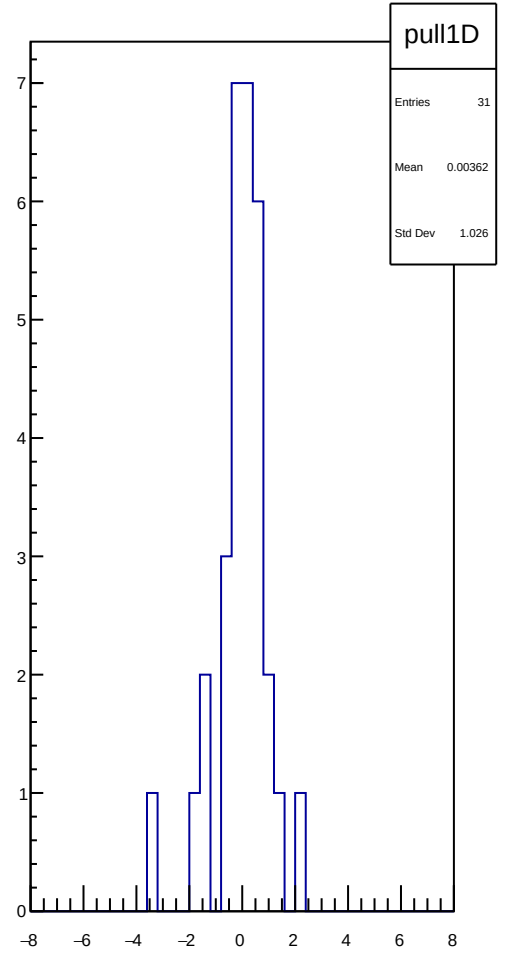

asym_sam_37_dd_correction_rms vs run
χ² / ndf 6.623e+04 / 30
p0 376 ± 0.5115
800
700
600
500
400
300
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

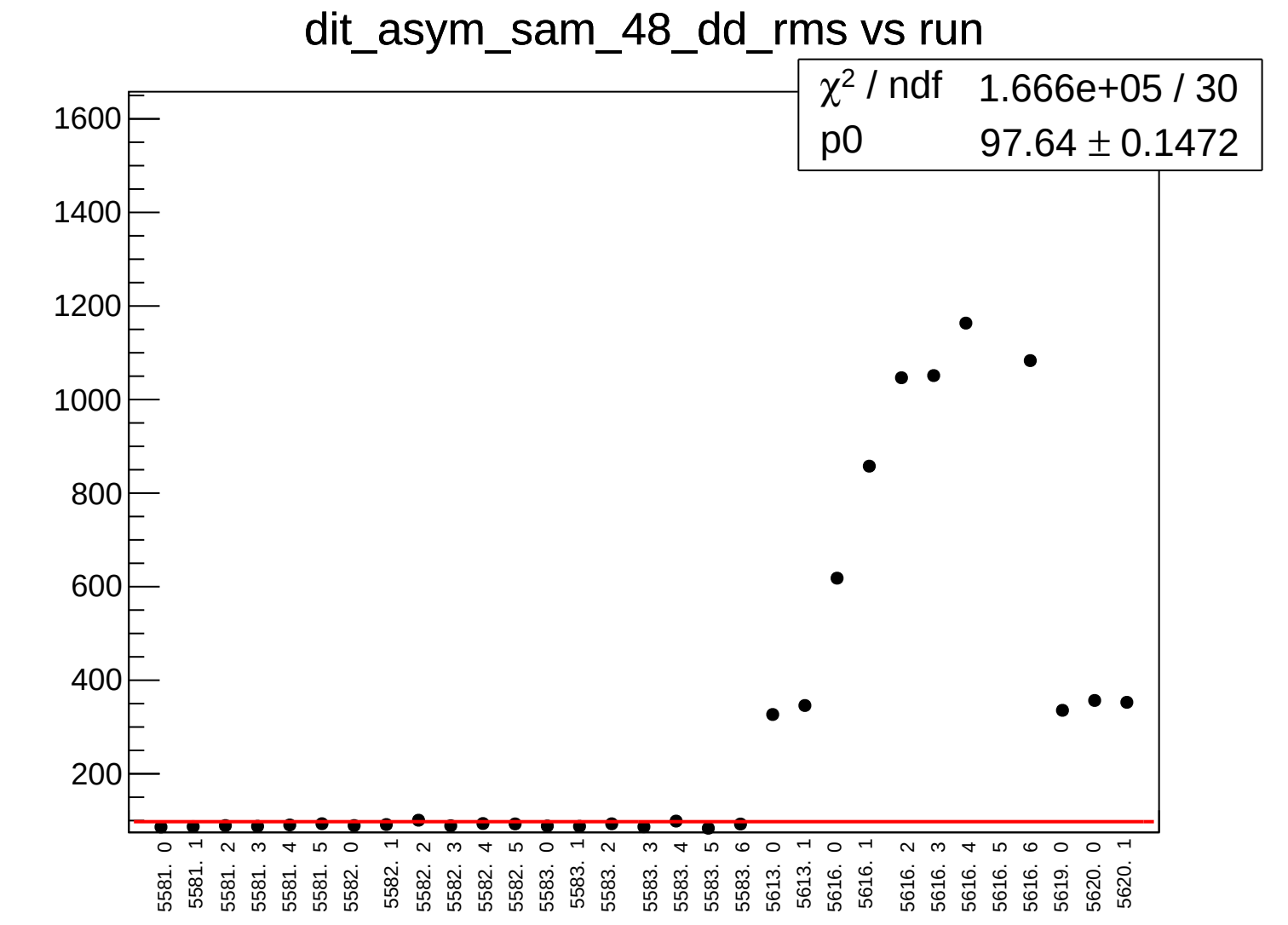

asym_sam_37_dd_mean vs run
χ² / ndf 42.96 / 30
p0 1020 ± 793.9
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 1.327
Std Dev 23.64
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

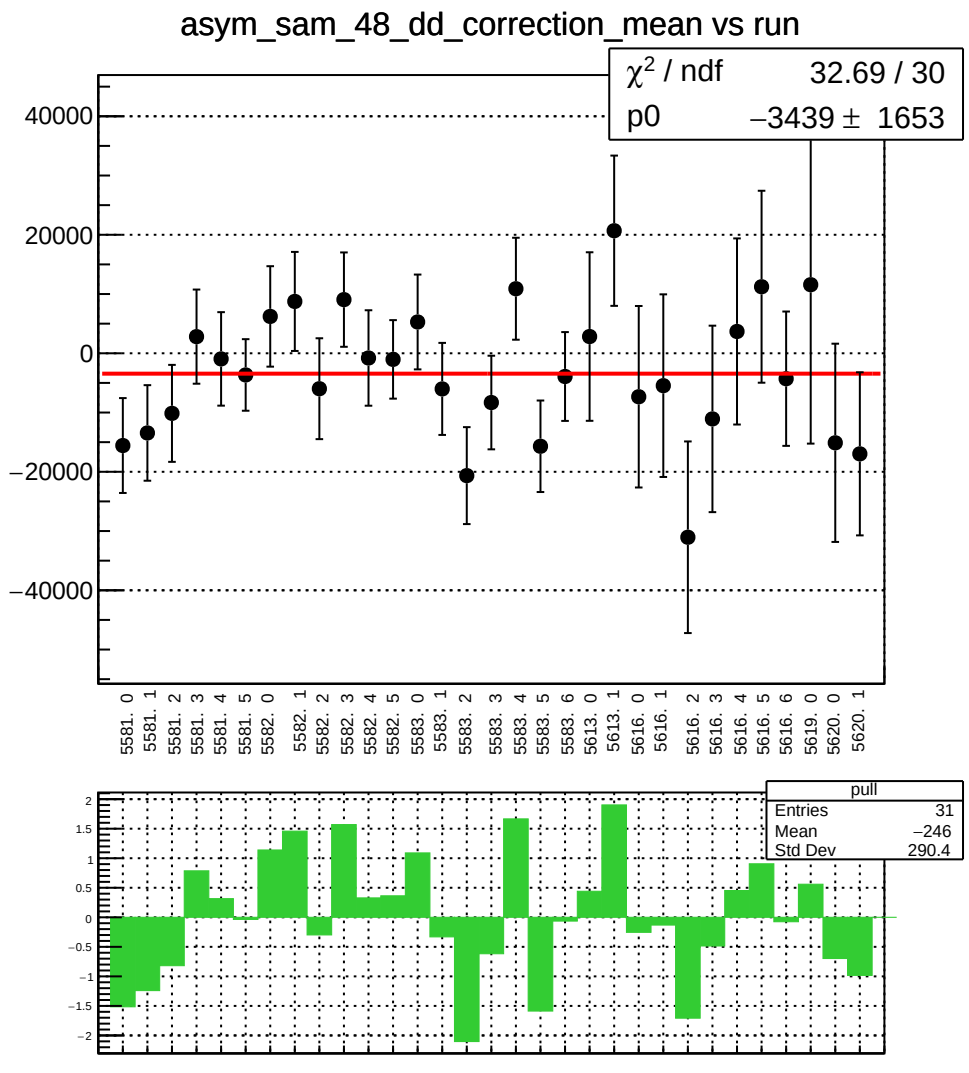

pull1D
Entries 31
Mean −0.03463
Std Dev 1.177
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

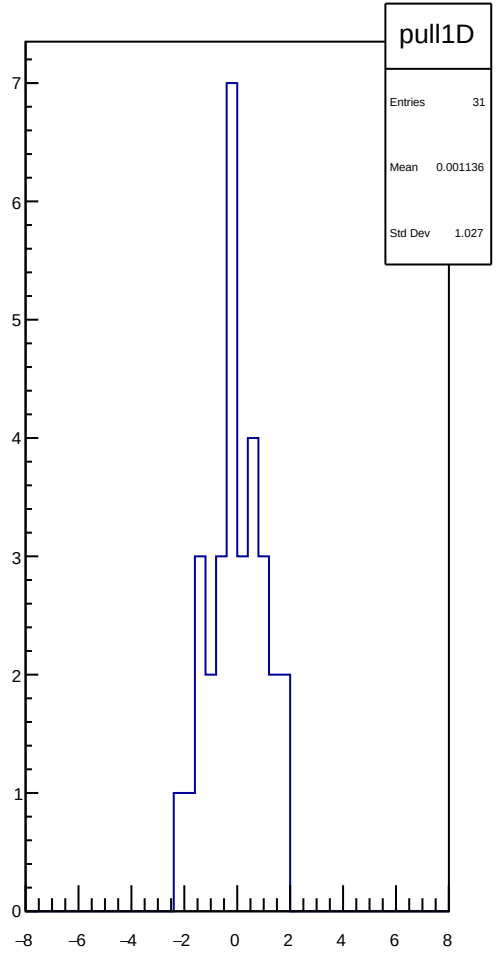

asym_sam_37_dd_rms vs run
χ² / ndf 8.421e+04 / 30
p0 405.7 ± 0.5614
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

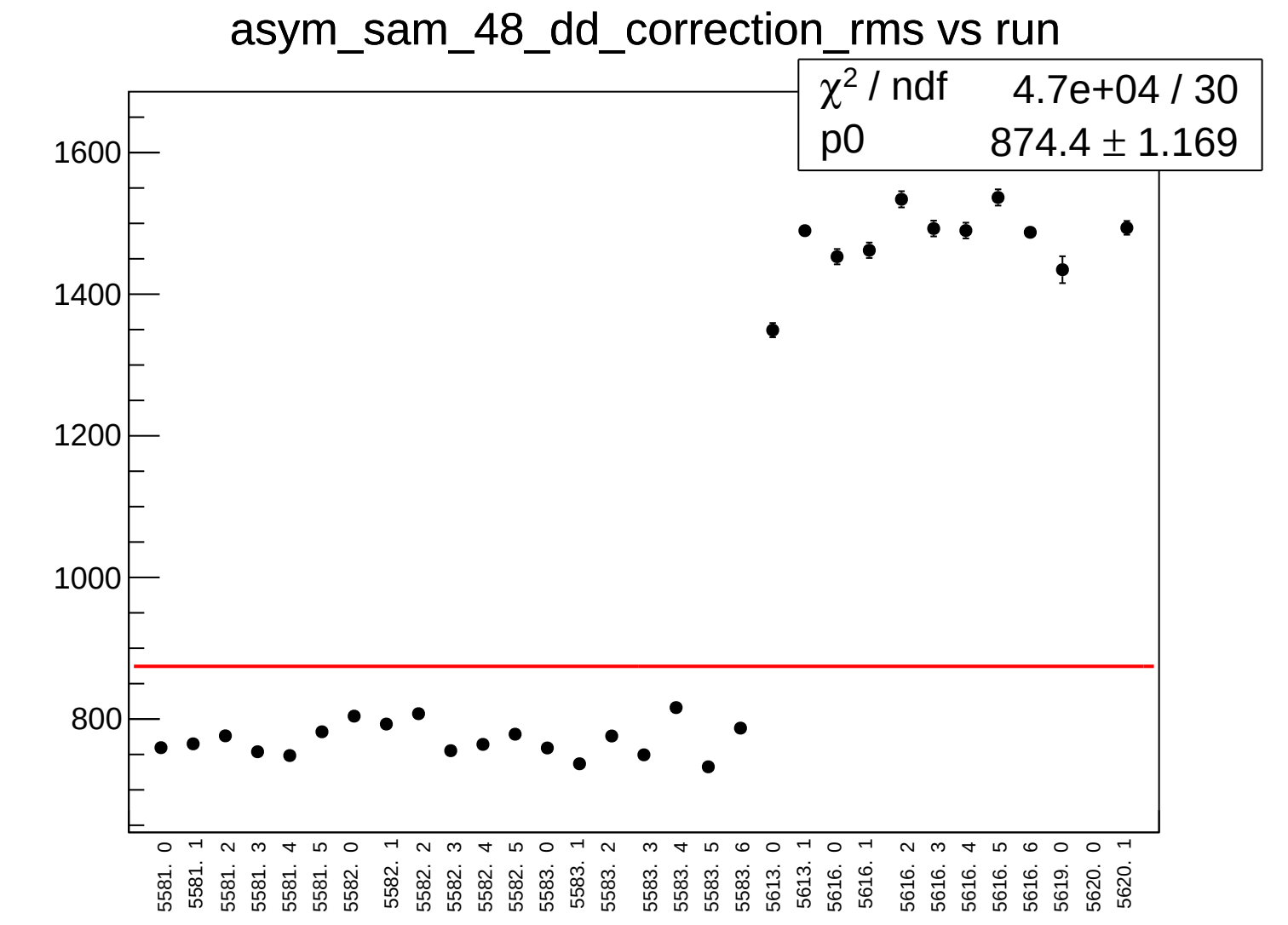

dit_asym_sam_48_dd_mean vs run
χ² / ndf 32.62 / 30
p0 3.039 ± 208.2
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −112.3
Std Dev 149
2
1
0
−1
−2
−3

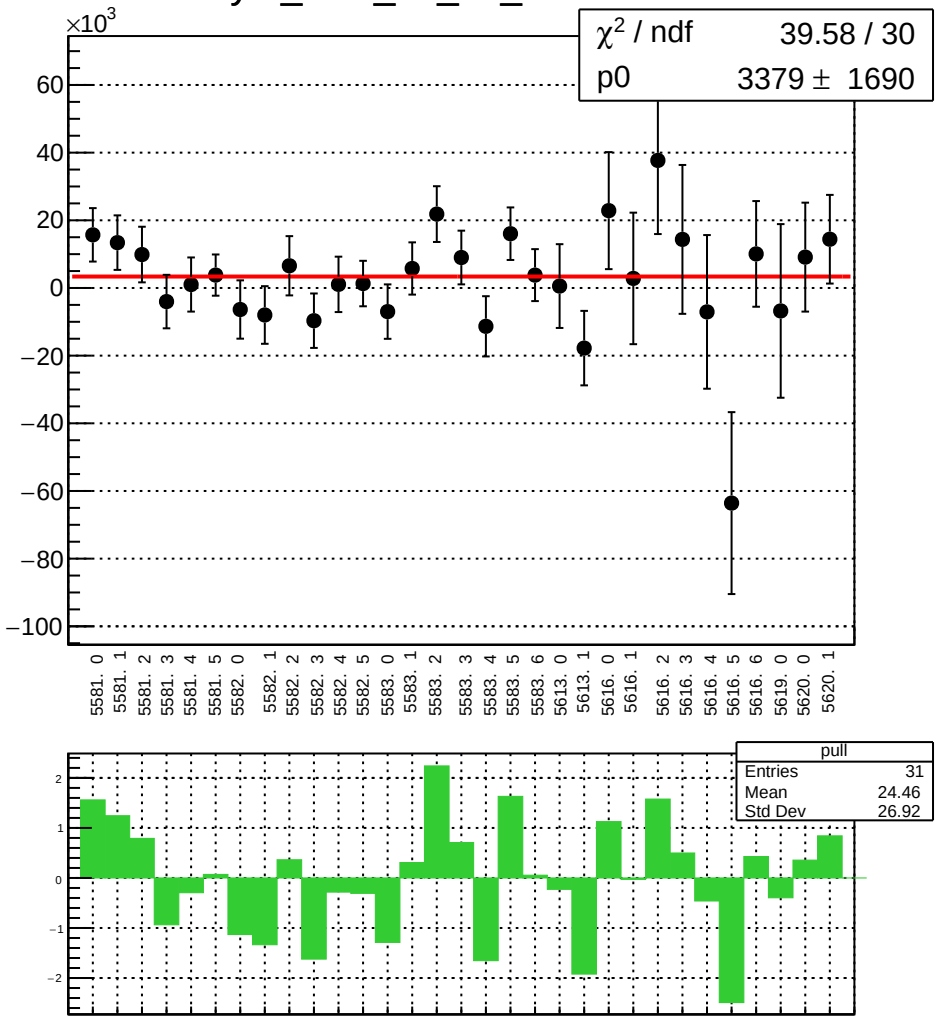

pull1D
Entries 31
Mean 0.00362
Std Dev 1.026
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

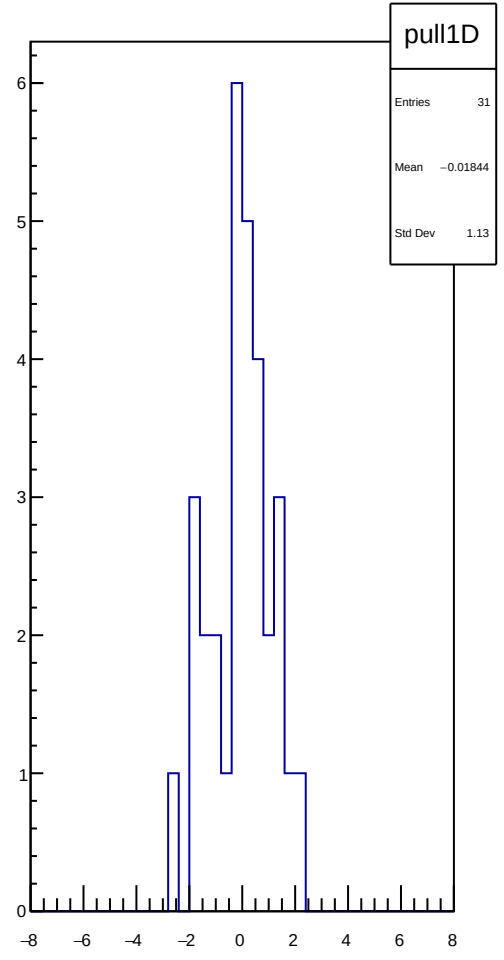

dit_asym_sam_48_dd_rms vs run
χ² / ndf 1.666e+05 / 30
p0 97.64 ± 0.1472
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

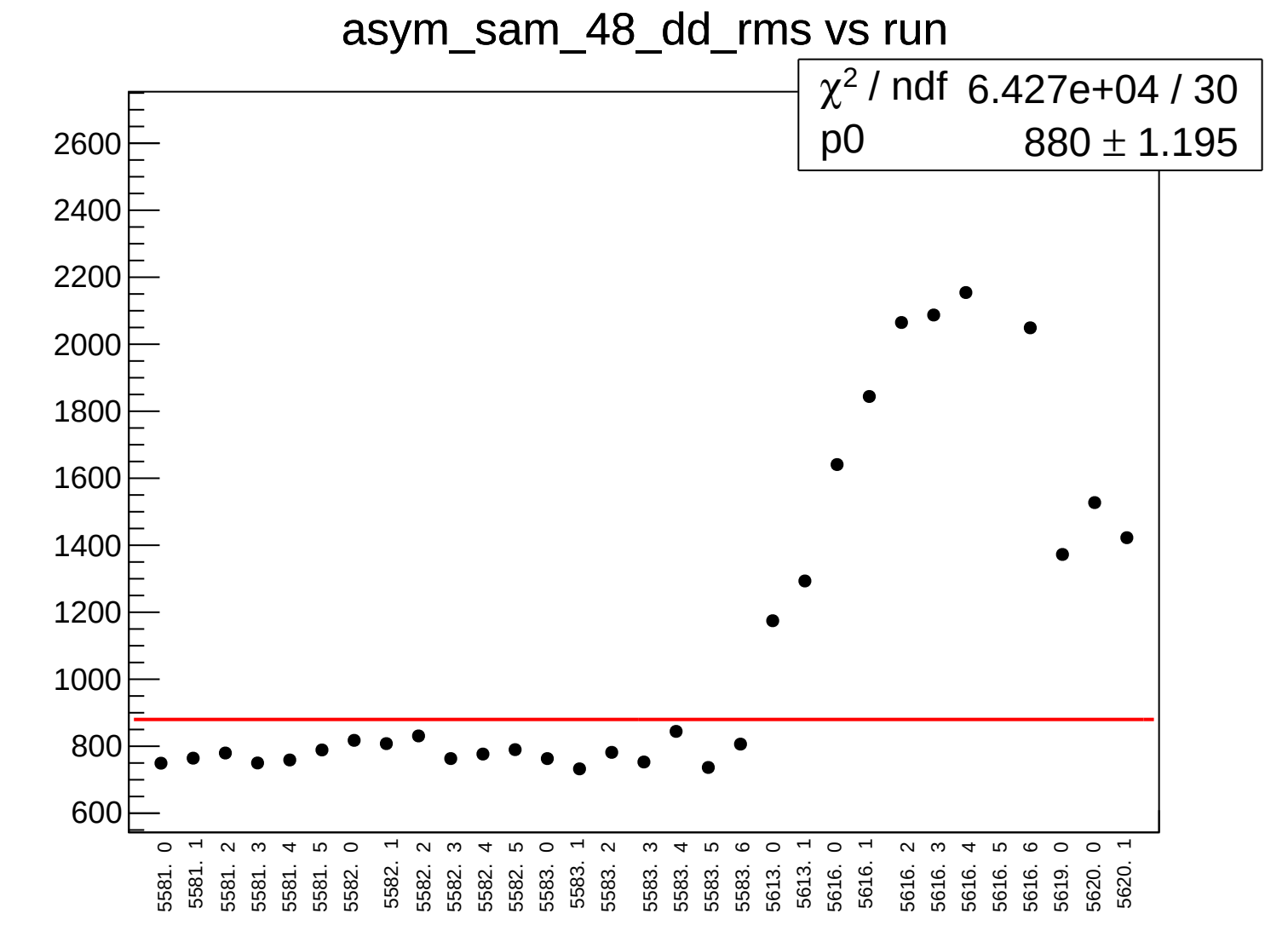

asym_sam_48_dd_correction_mean vs run
χ² / ndf 32.69 / 30
p0 −3439 ± 1653
40000
20000
0
−20000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −246
Std Dev 290.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

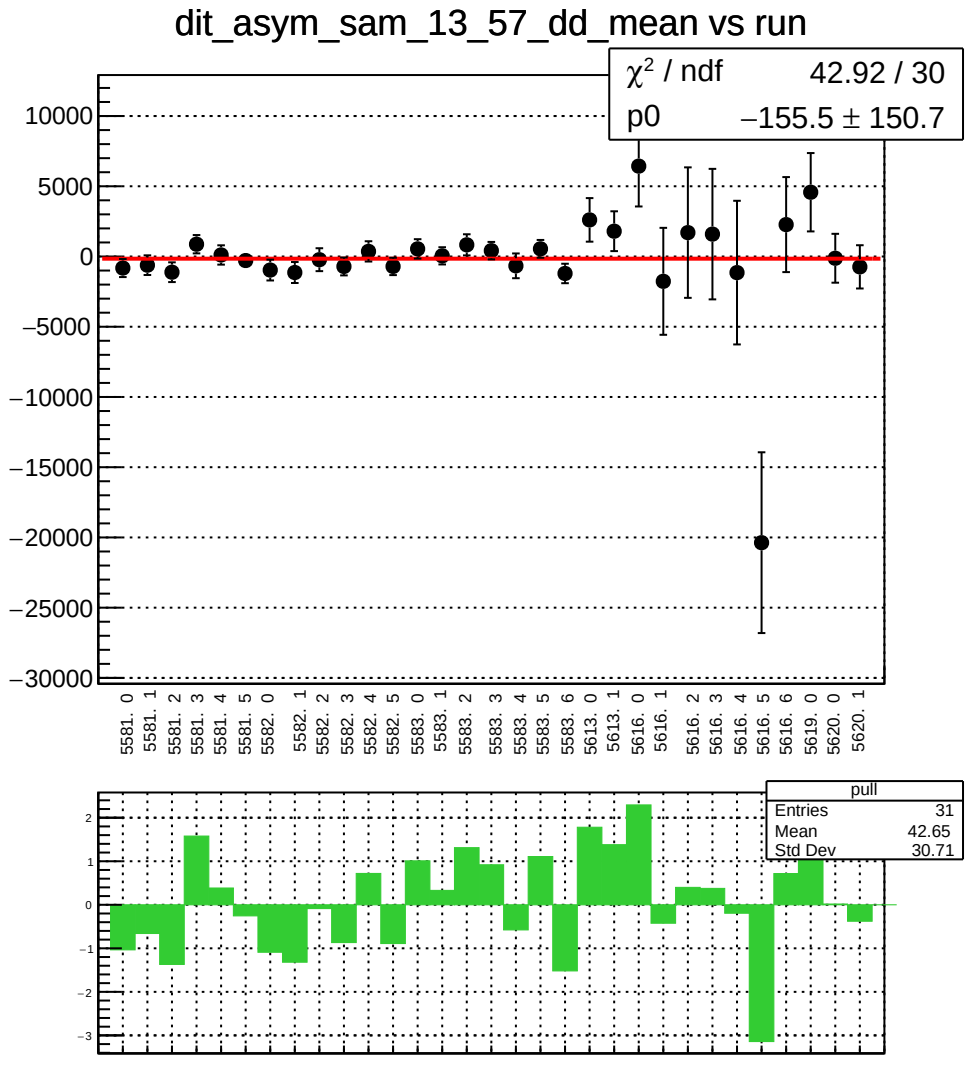

pull1D
Entries 31
Mean 0.001136
Std Dev 1.027
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

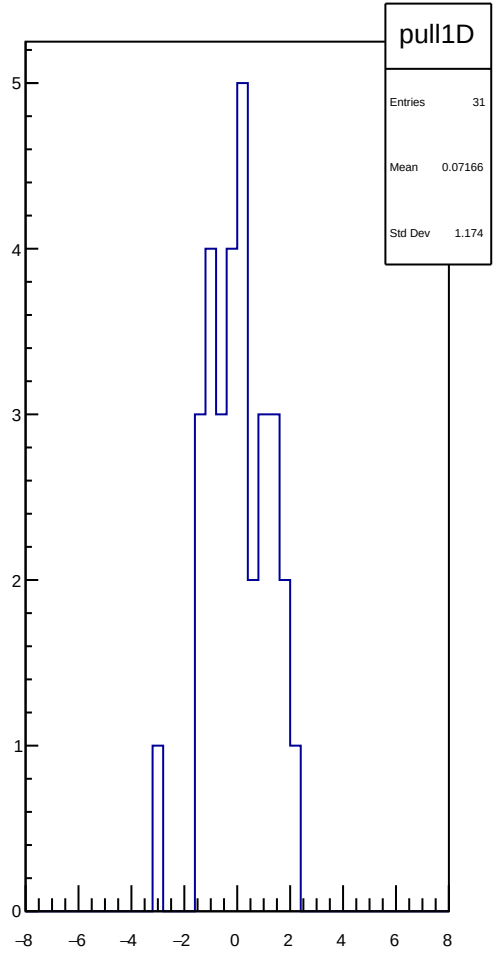

asym_sam_48_dd_correction_rms vs run
χ² / ndf 4.7e+04 / 30
p0 874.4 ± 1.169
1600
1400
1200
1000
800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

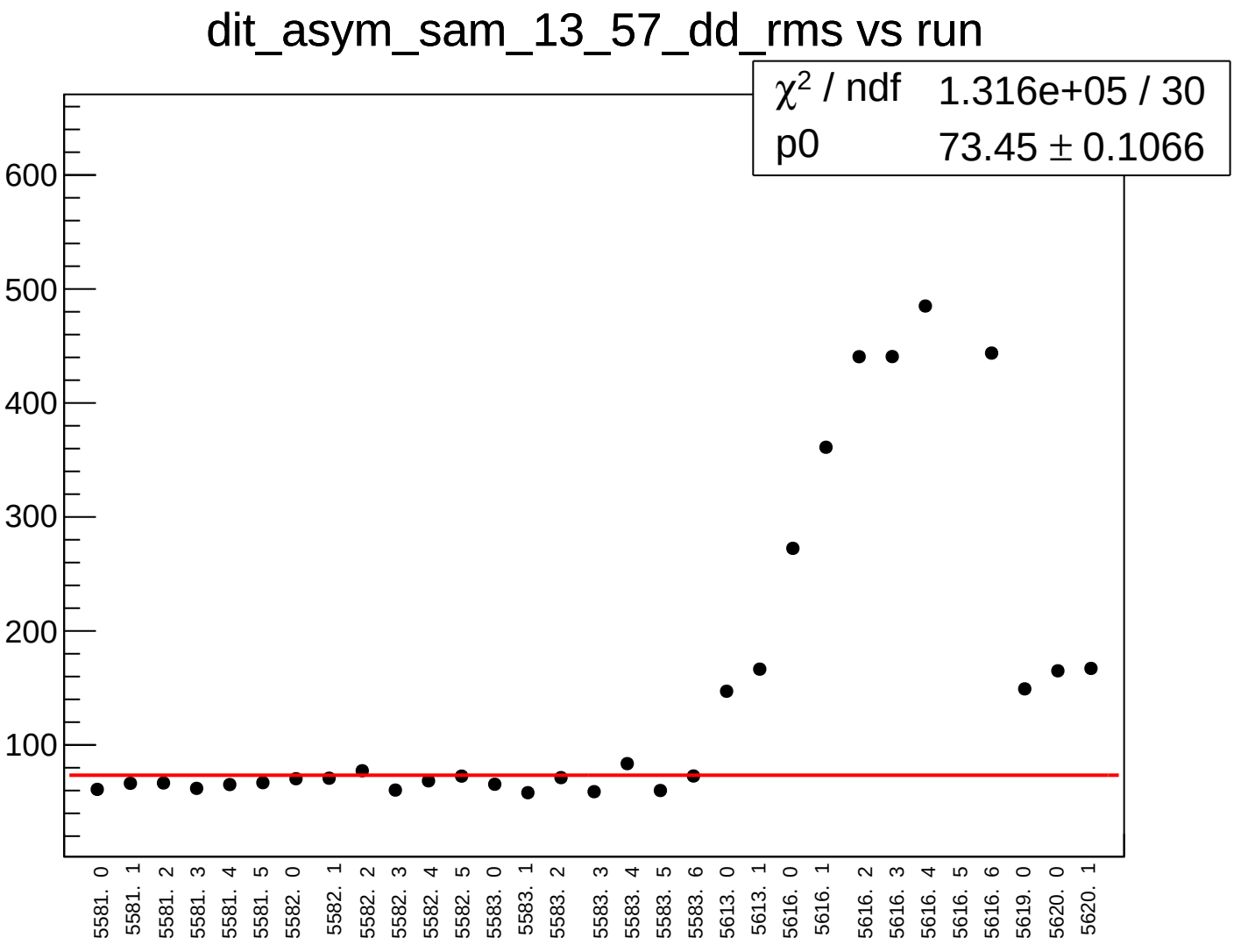

asym_sam_48_dd_mean vs run
×10^3
χ^2 / ndf 39.58 / 30
p0 3379 ± 1690
60
40
20
0
−20
−40
−60
−80
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 24.46
Std Dev 26.92
2
1
0
−1
−2

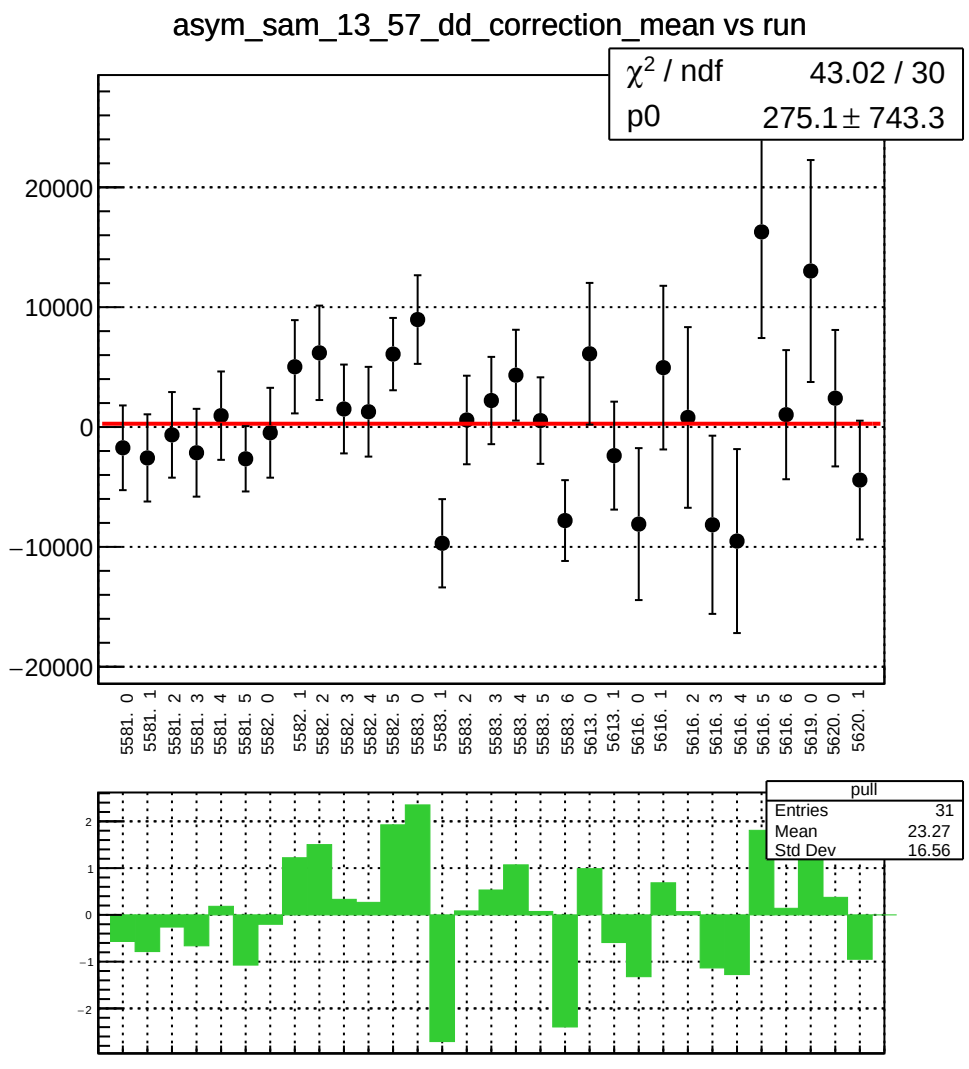

pull1D
Entries 31
Mean −0.01844
Std Dev 1.13
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

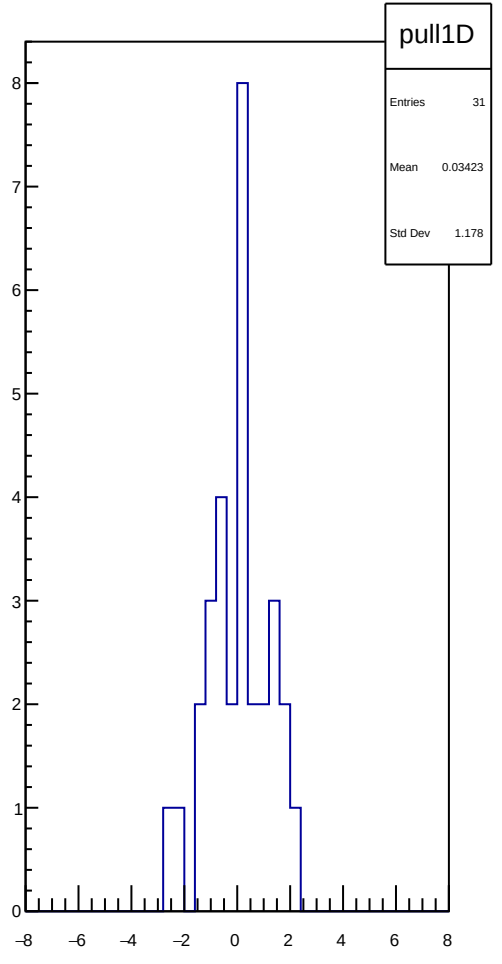

asym_sam_48_dd_rms vs run
χ² / ndf 6.427e+04 / 30
p0 880 ± 1.195
2600
2400
2200
2000
1800
1600
1400
1200
1000
800
600
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

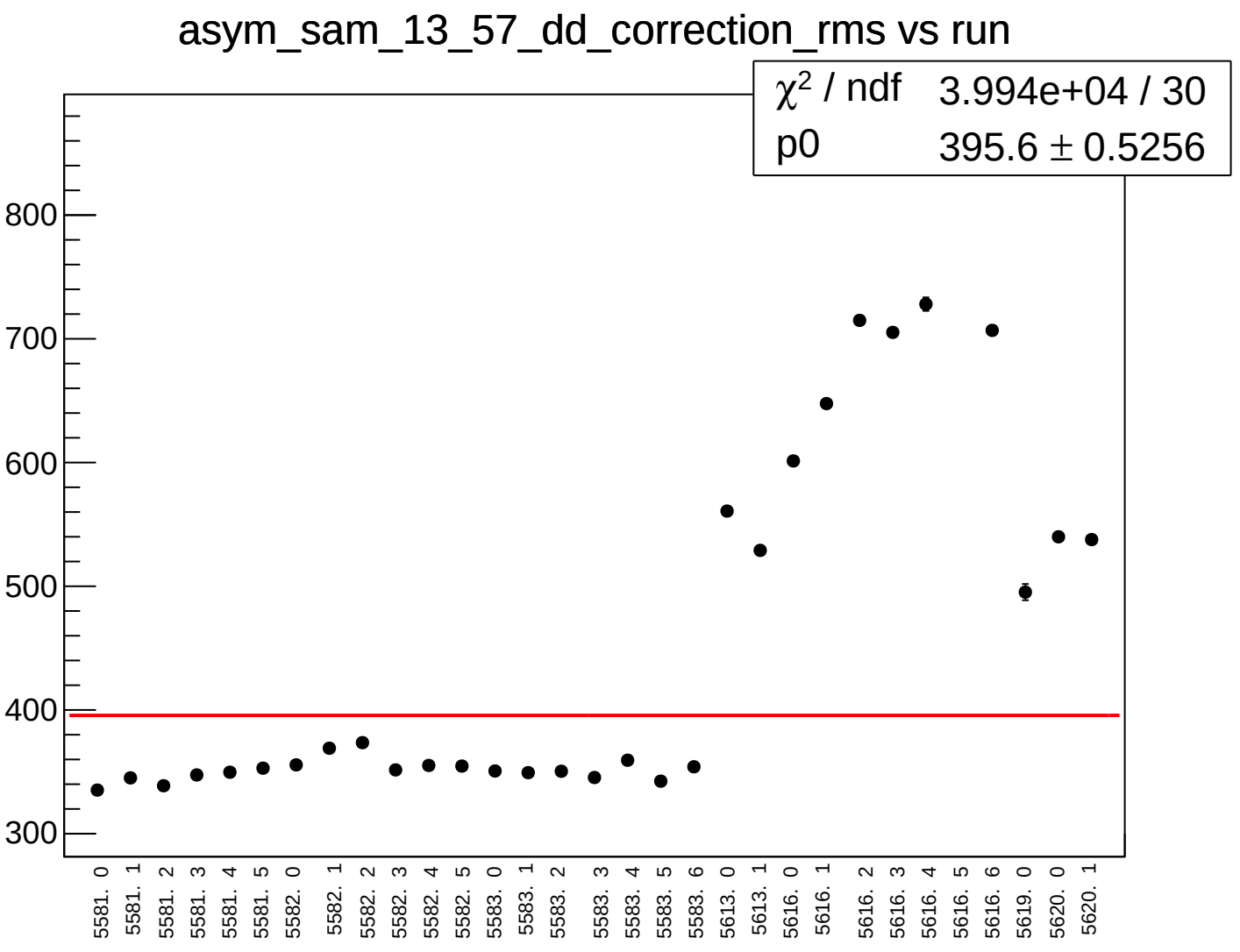

dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 42.92 / 30
p0 −155.5 ± 150.7
10000
5000
0
−5000
−10000
−15000
−20000
−25000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 42.65
Std Dev 30.71
2
1
0
−1
−2
−3

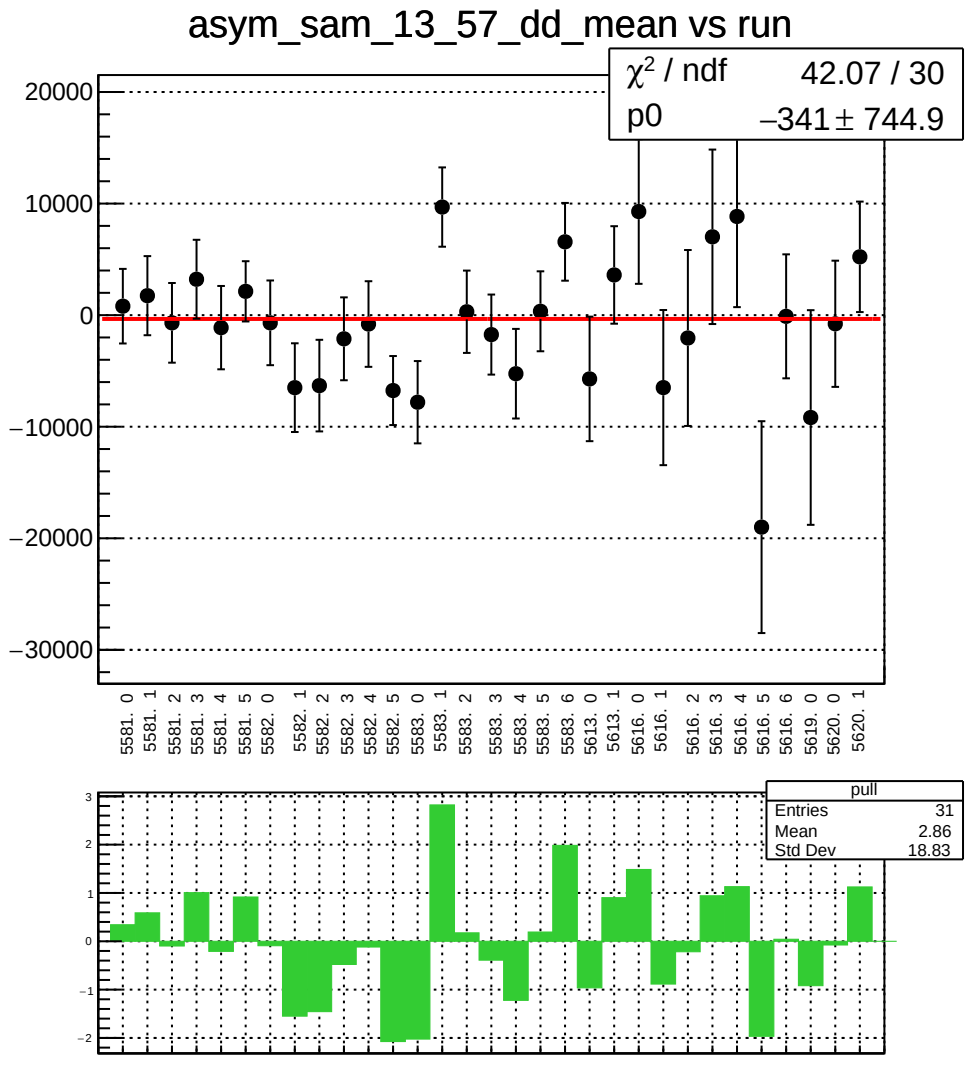

pull1D
Entries 31
Mean 0.07166
Std Dev 1.174
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

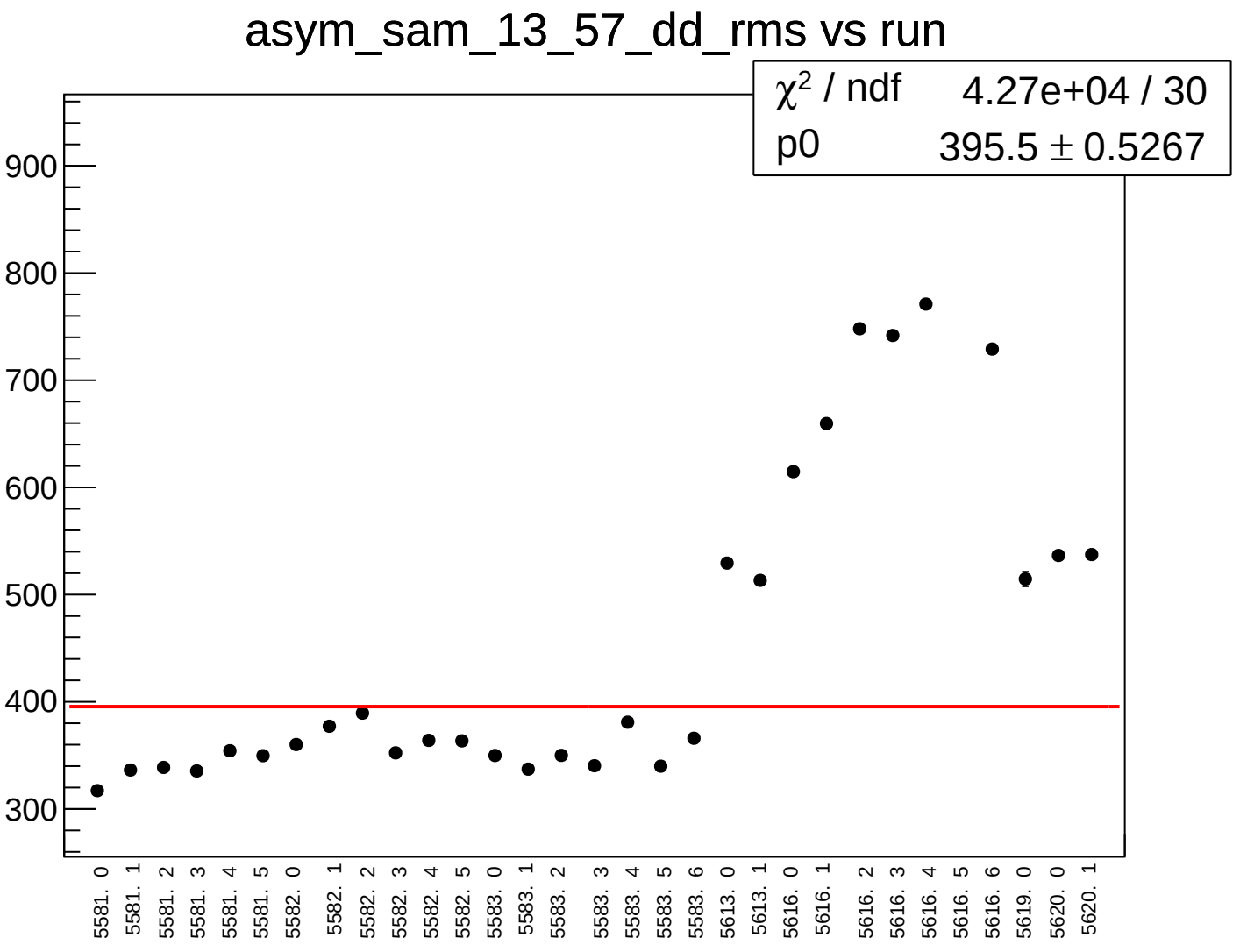

dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 1.316e+05 / 30
p0 73.45 ± 0.1066
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

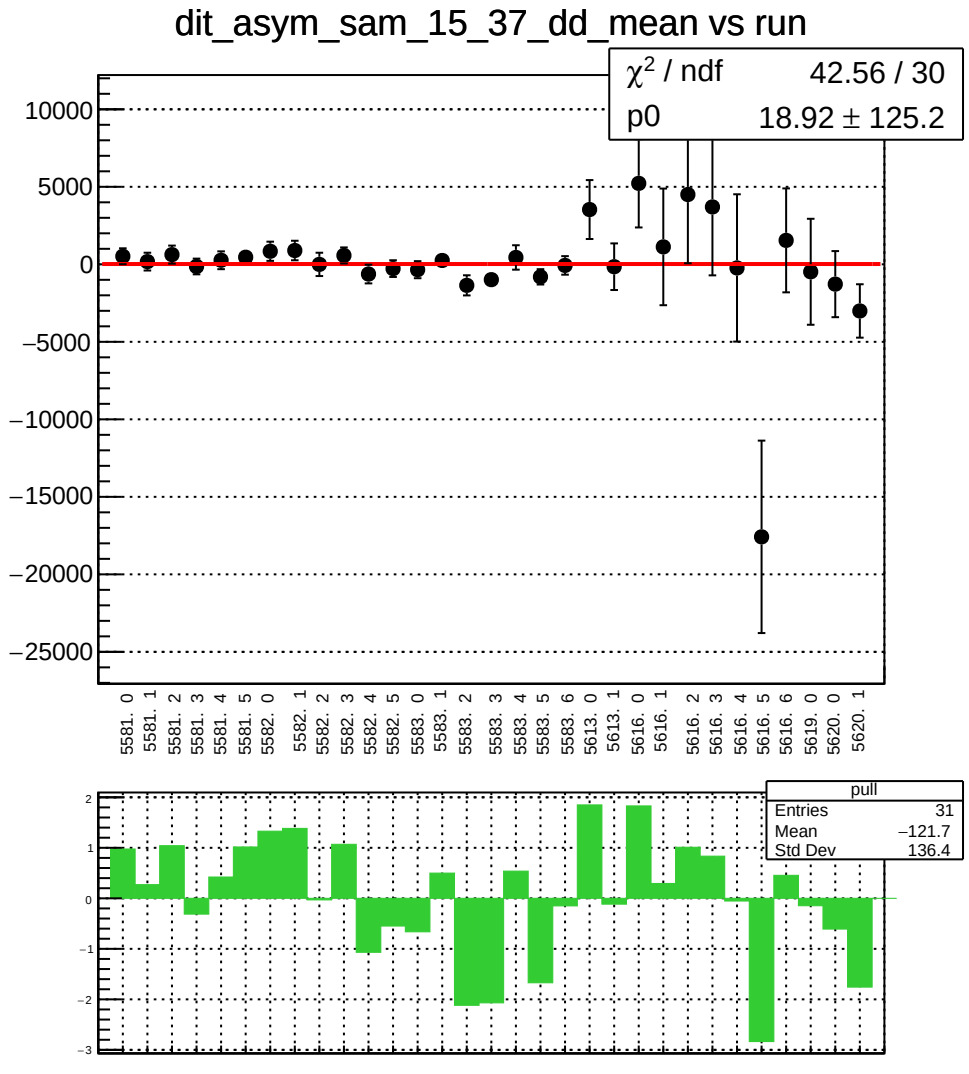

asym_sam_13_57_dd_correction_mean vs run
χ² / ndf 43.02 / 30
p0 275.1 ± 743.3
20000
10000
0
−10000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 23.27
Std Dev 16.56
2
1
0
−1
−2

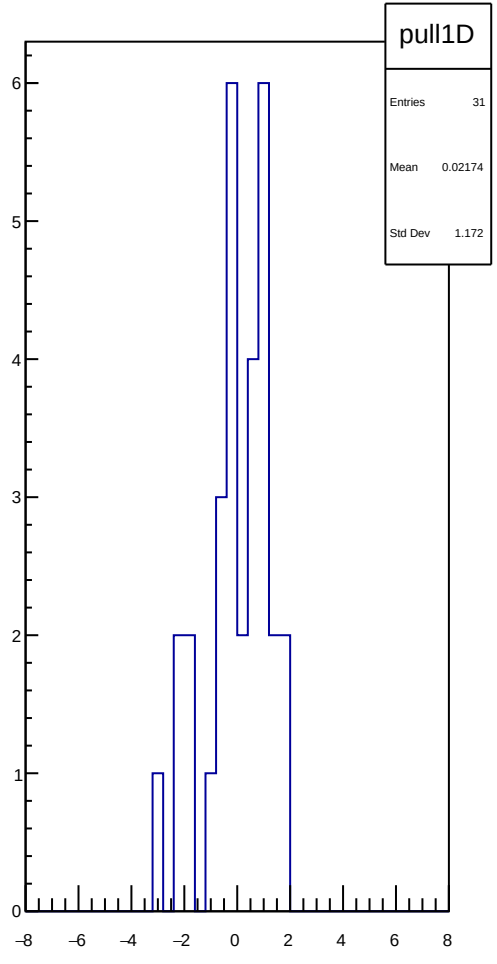

pull1D
Entries 31
Mean 0.03423
Std Dev 1.178
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

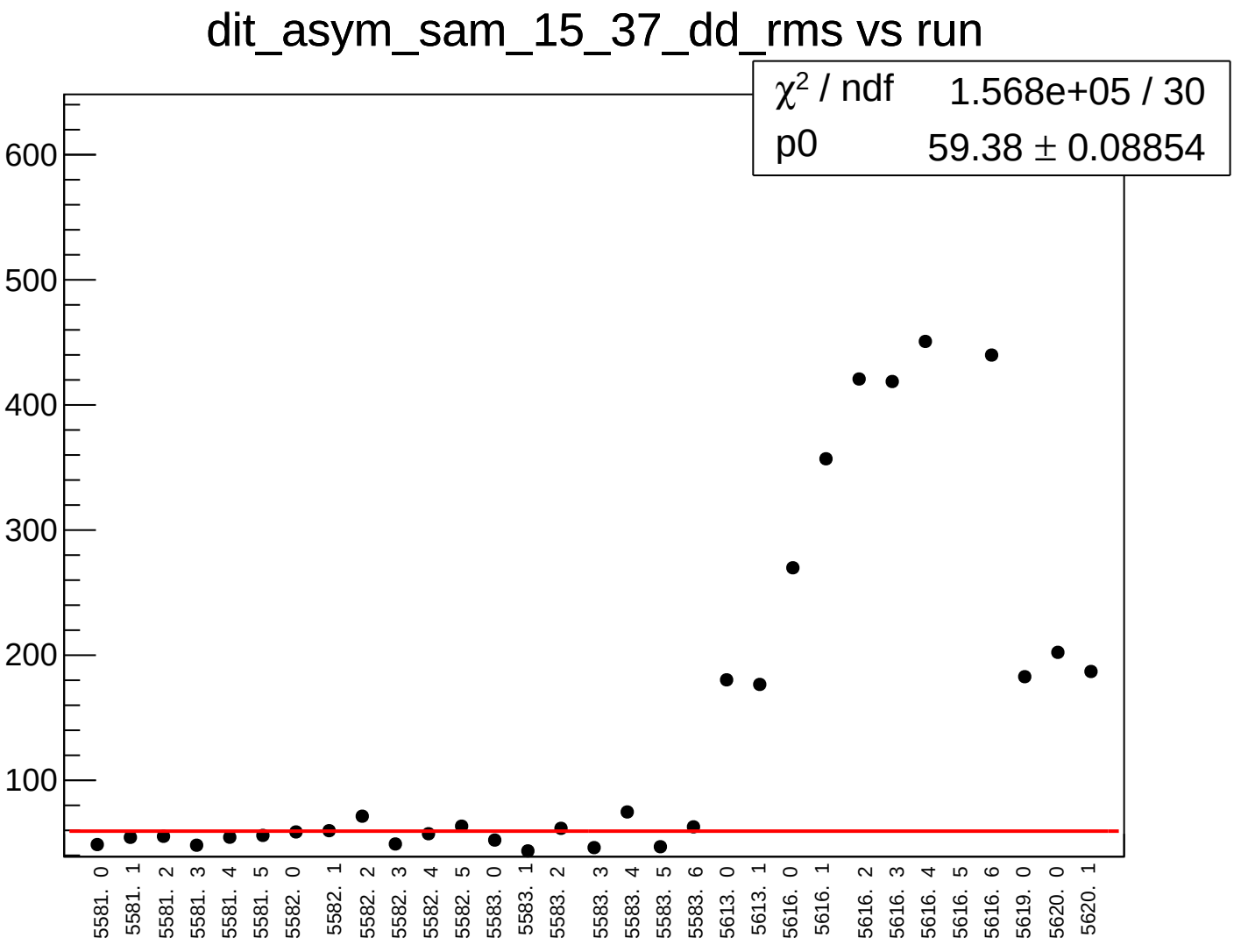

asym_sam_13_57_dd_correction_rms vs run
χ² / ndf 3.994e+04 / 30
p0 395.6 ± 0.5256
800
700
600
500
400
300
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

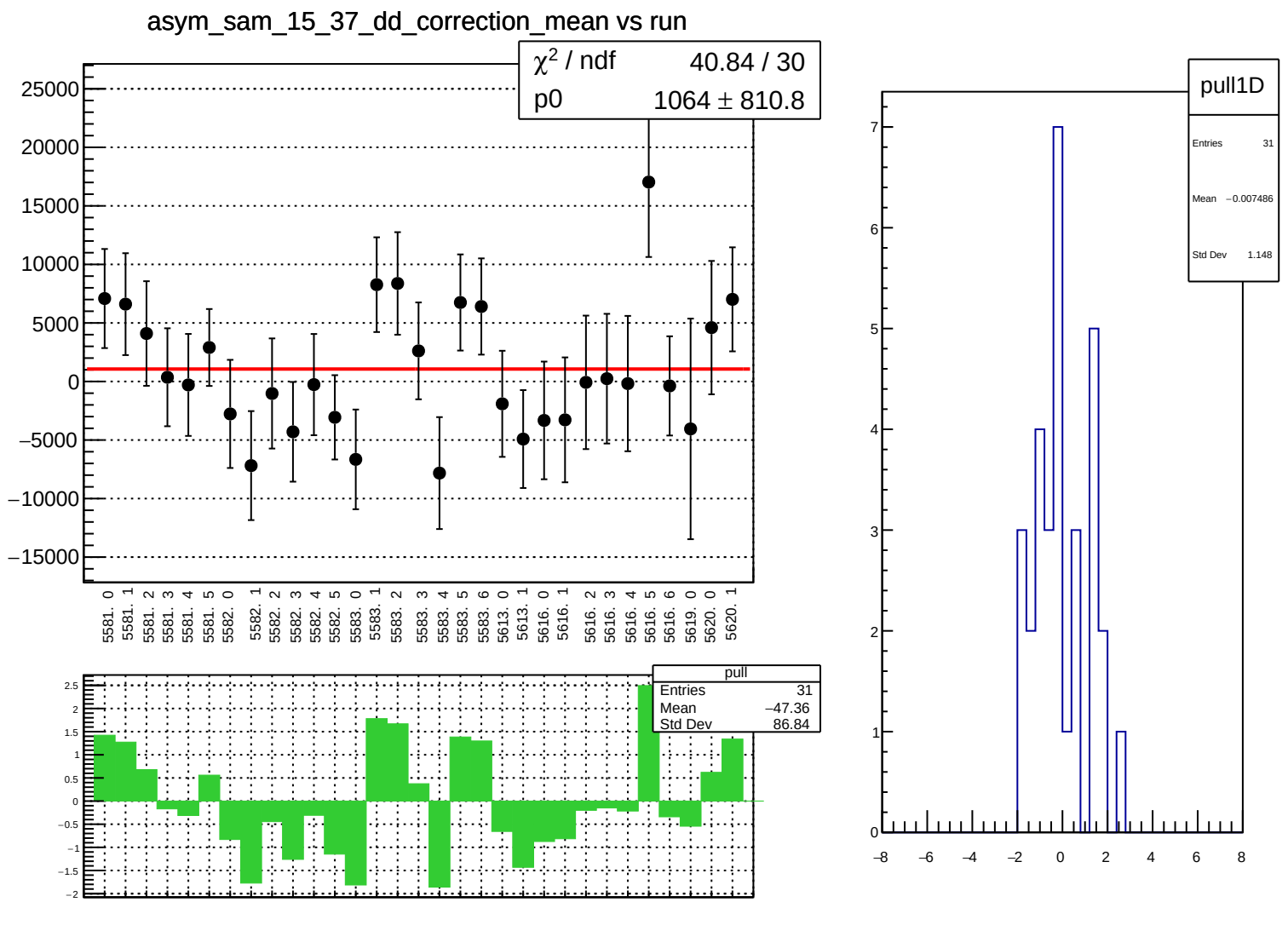

asym_sam_13_57_dd_mean vs run
χ² / ndf 42.07 / 30
p0 −341 ± 744.9
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 2.86
Std Dev 18.83
3
2
1
0
−1
−2
pull1D
Entries 31
Mean −0.03486
Std Dev 1.164
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

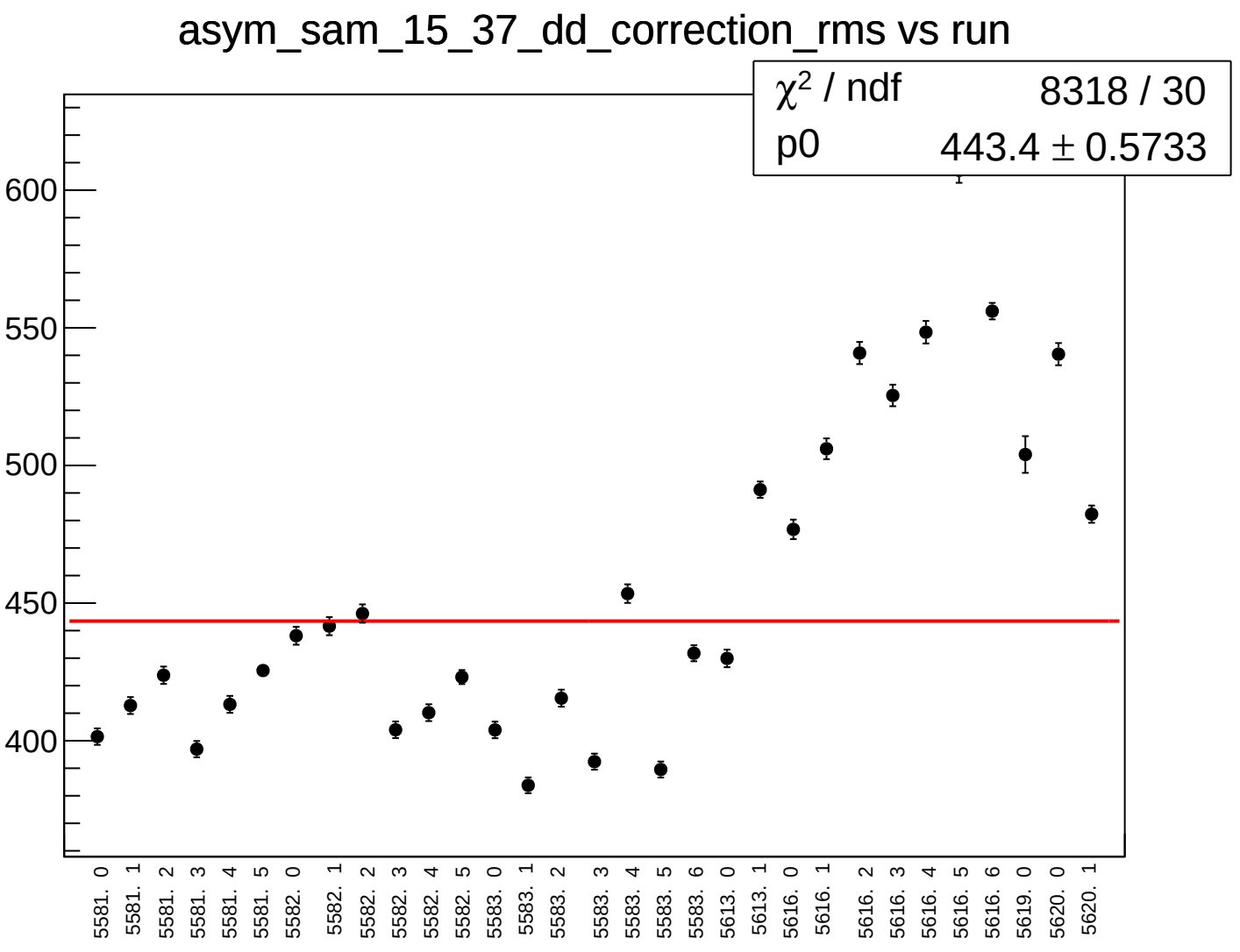

asym_sam_13_57_dd_rms vs run
χ^2 / ndf 4.27e+04 / 30
p0 395.5 ± 0.5267
900
800
700
600
500
400
300
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

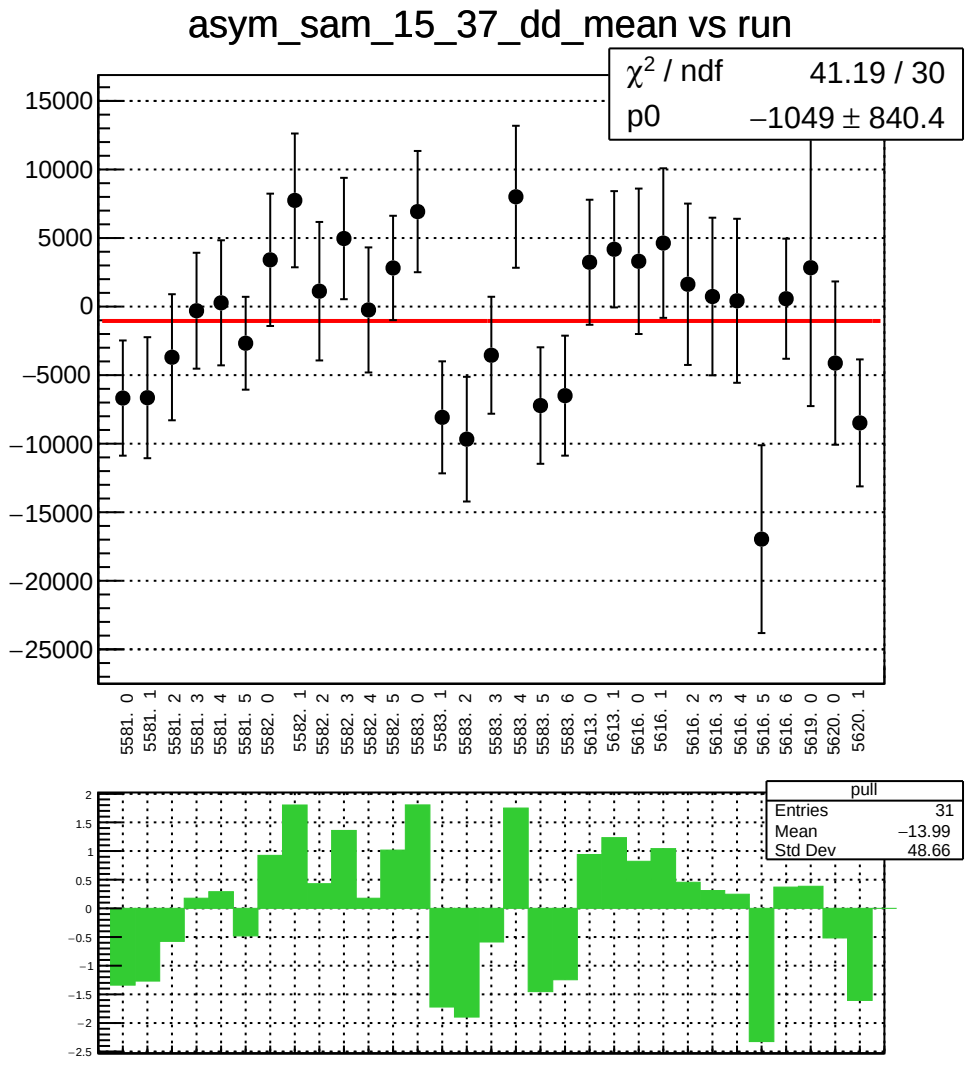

dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 42.56 / 30
p0 18.92 ± 125.2
10000
5000
0
−5000
−10000
−15000
−20000
−25000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −121.7
Std Dev 136.4
2
1
0
−1
−2
−3

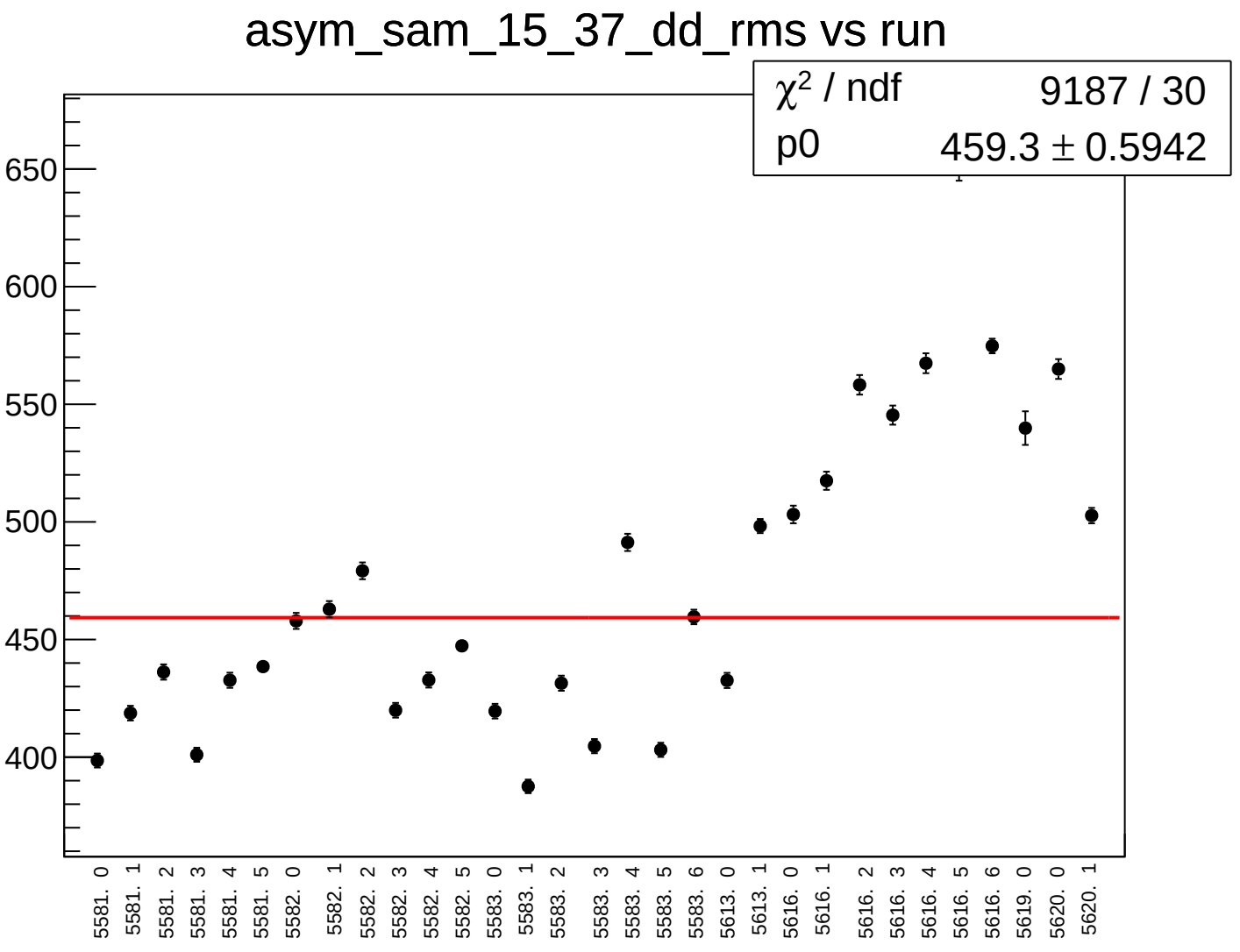

pull1D
Entries 31
Mean 0.02174
Std Dev 1.172
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

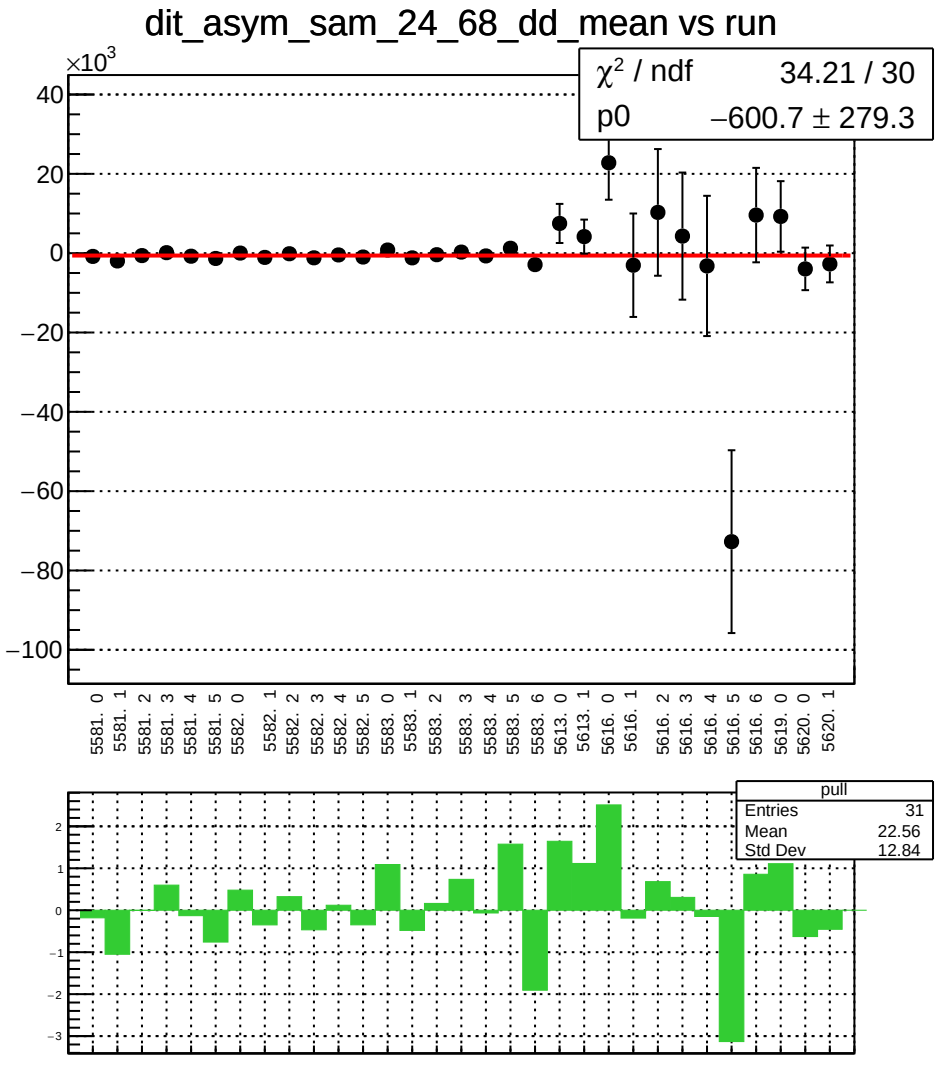

dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 1.568e+05 / 30
p0 59.38 ± 0.08854
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

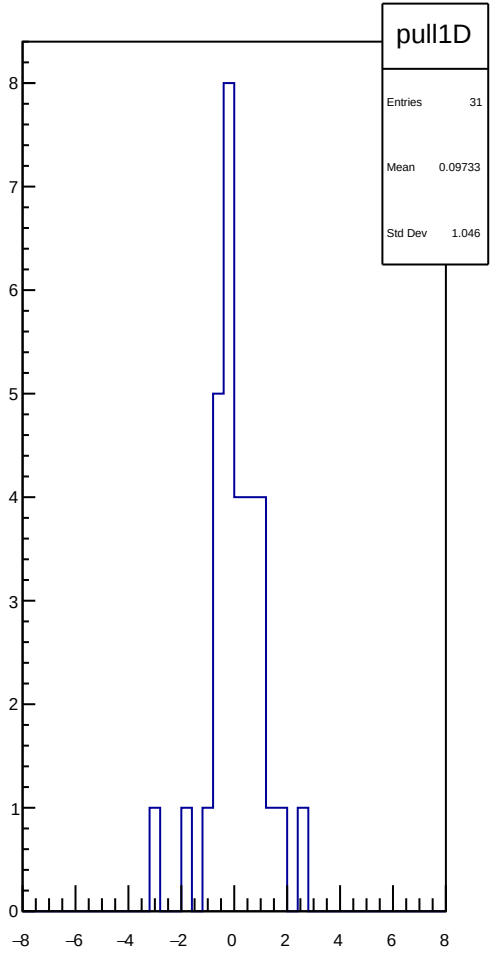

asym_sam_15_37_dd_correction_mean vs run
χ² / ndf 40.84 / 30
p0 1064 ± 810.8
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −47.36
Std Dev 86.84
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.007486
Std Dev 1.148
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

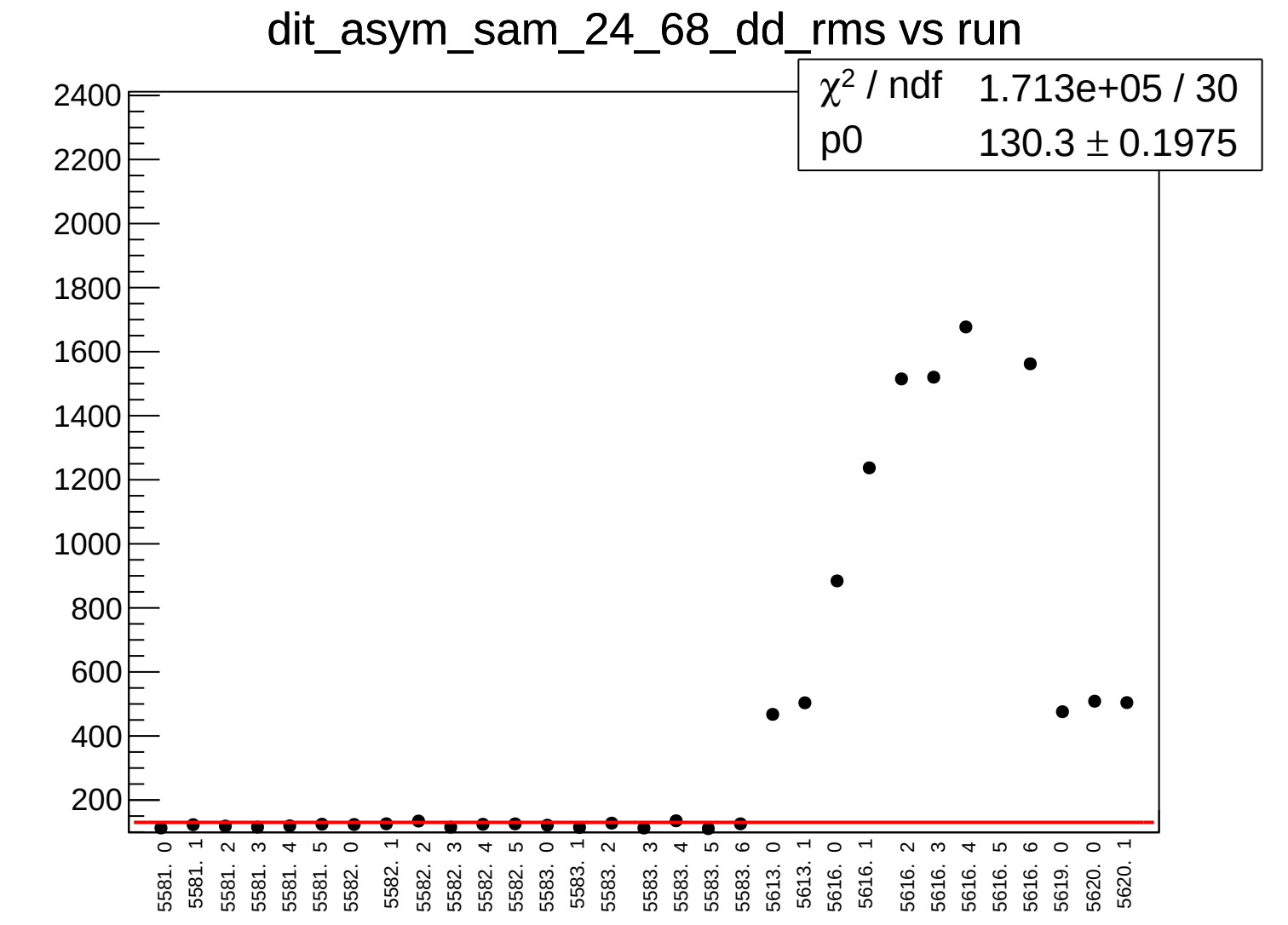

asym_sam_15_37_dd_correction_rms vs run
χ² / ndf 8318 / 30
p0 443.4 ± 0.5733
600
550
500
450
400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

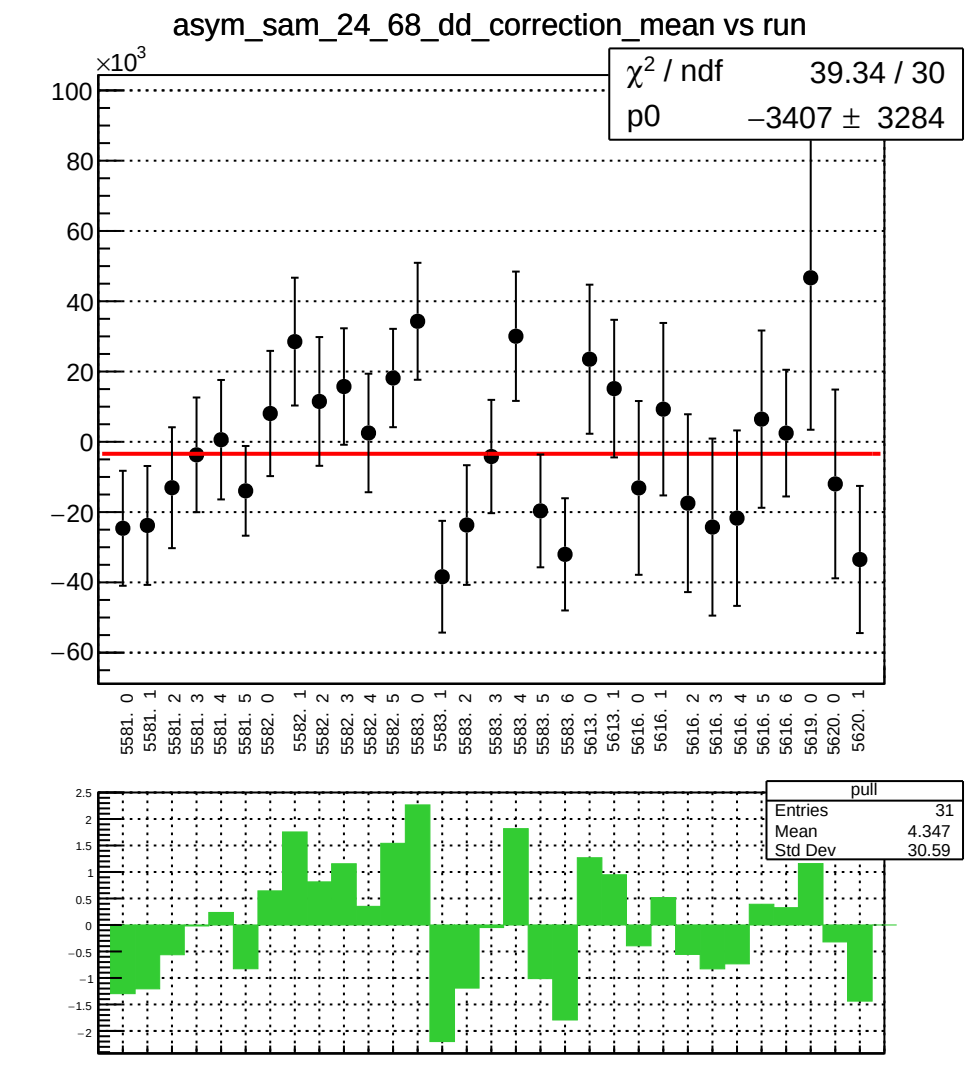

asym_sam_15_37_dd_mean vs run
χ² / ndf 41.19 / 30
p0 −1049 ± 840.4
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −13.99
Std Dev 48.66
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 31
Mean 0.01683
Std Dev 1.153
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

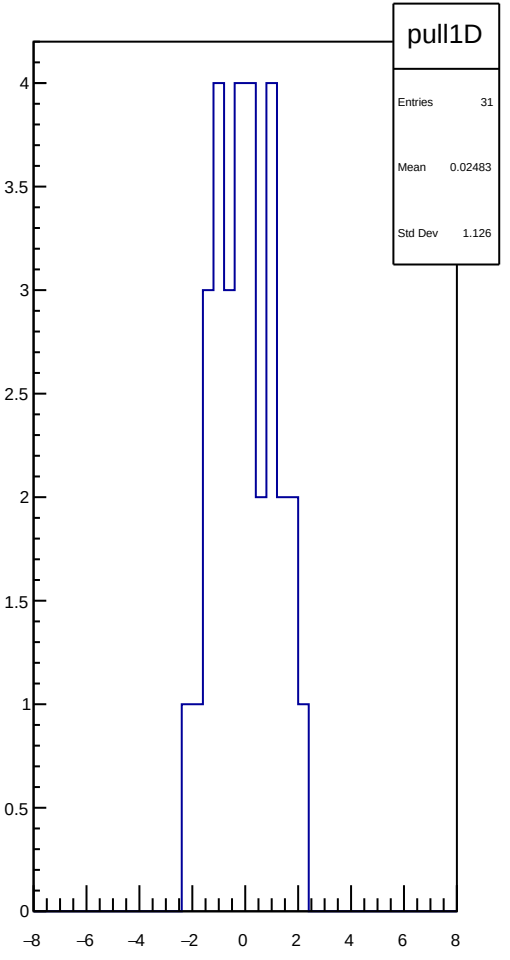

asym_sam_15_37_dd_rms vs run
χ² / ndf 9187 / 30
p0 459.3 ± 0.5942
650
600
550
500
450
400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

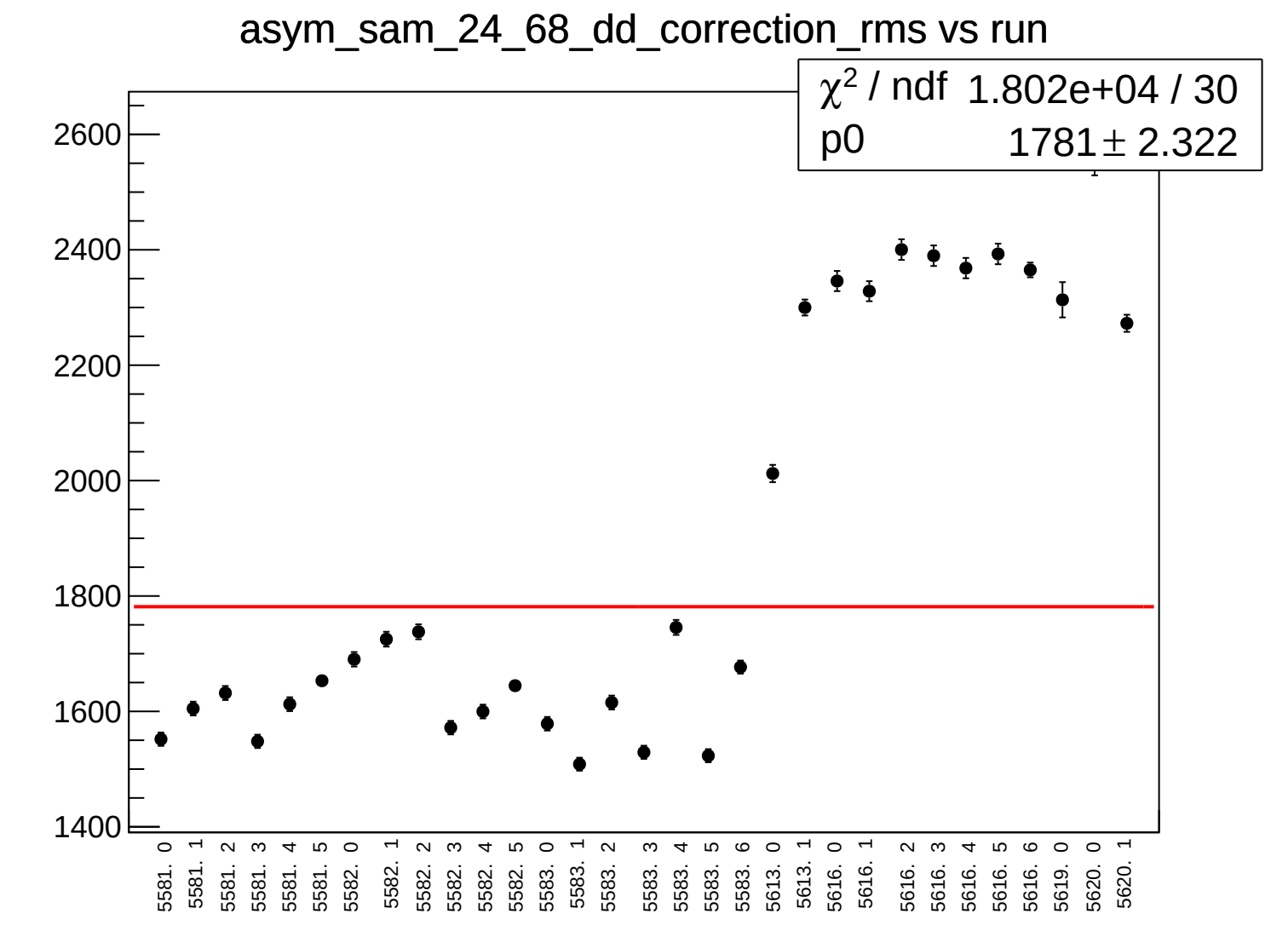

dit_asym_sam_24_68_dd_mean vs run
×10^3
χ² / ndf 34.21 / 30
p0 −600.7 ± 279.3
40
20
0
−20
−40
−60
−80
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 22.56
Std Dev 12.84
2
1
0
−1
−2
−3

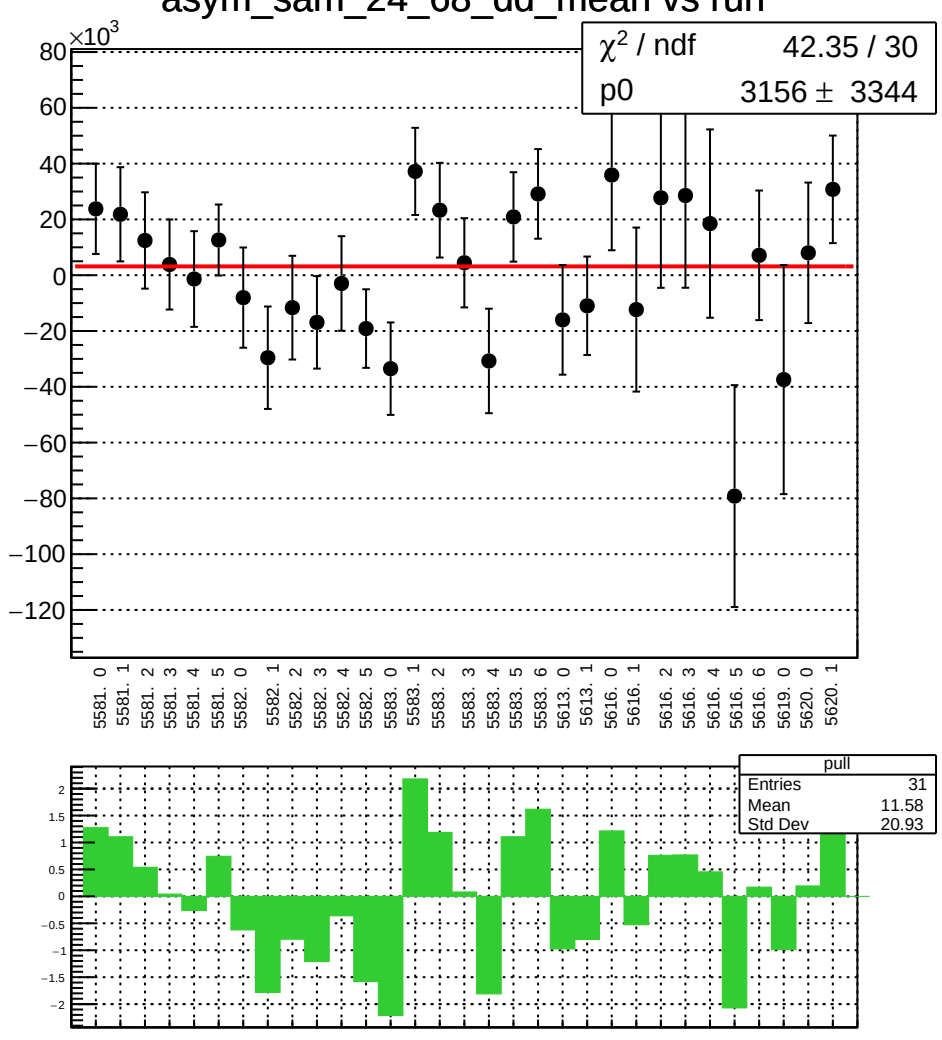

pull1D
Entries 31
Mean 0.09733
Std Dev 1.046
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

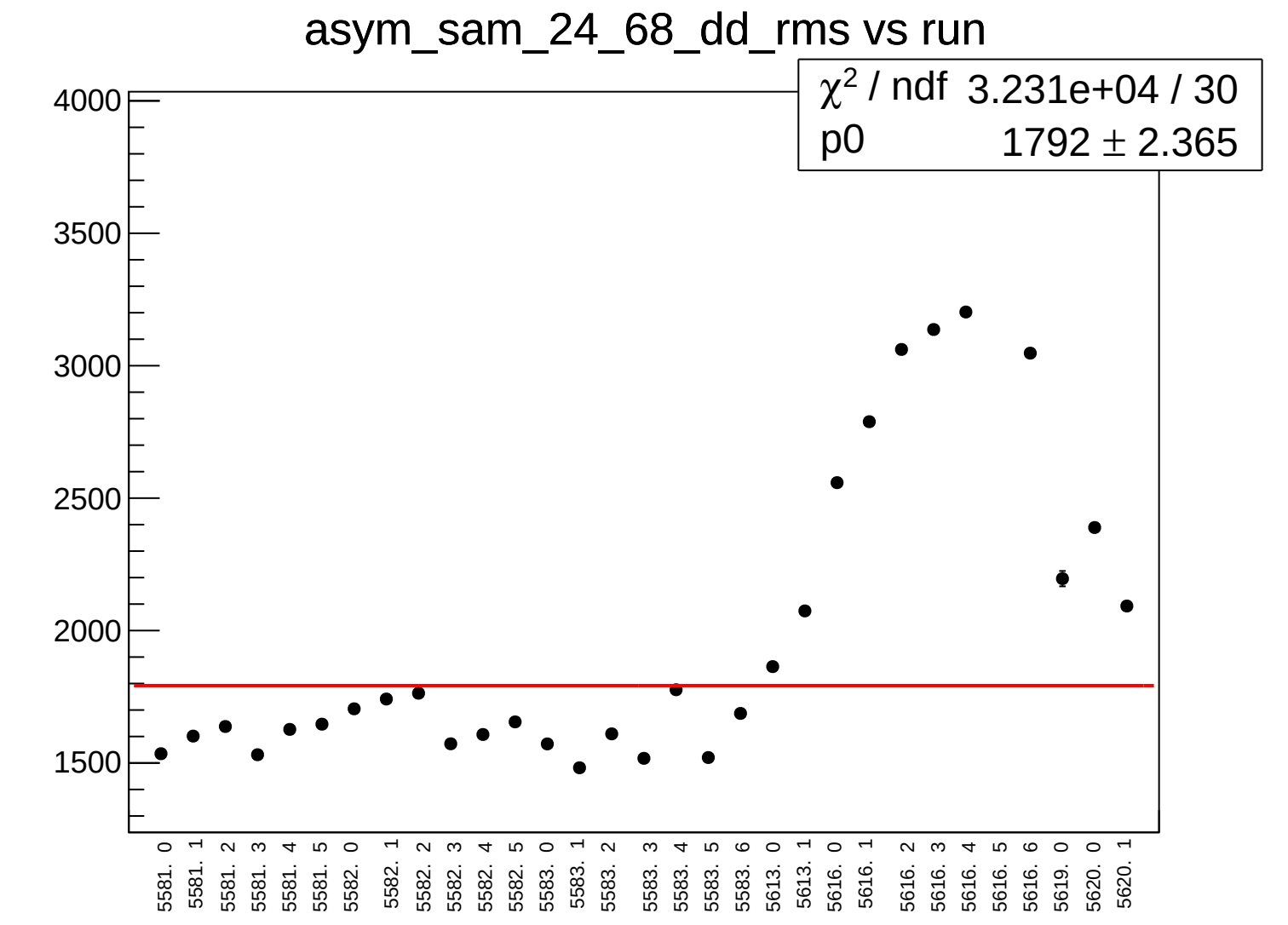

dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.713e+05 / 30
p0 130.3 ± 0.1975
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

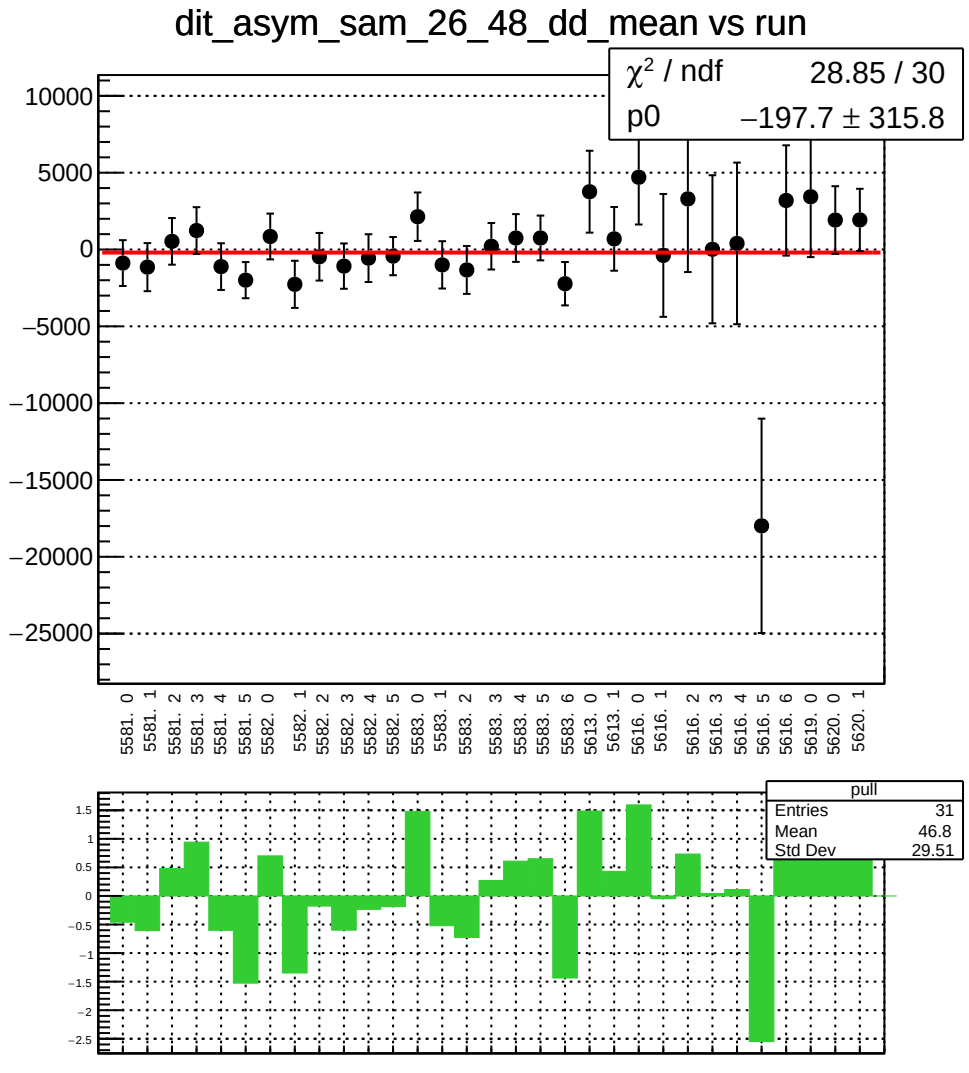

asym_sam_24_68_dd_correction_mean vs run
×10^3
χ² / ndf 39.34 / 30
p0 −3407 ± 3284
100
80
60
40
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 4.347
Std Dev 30.59
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

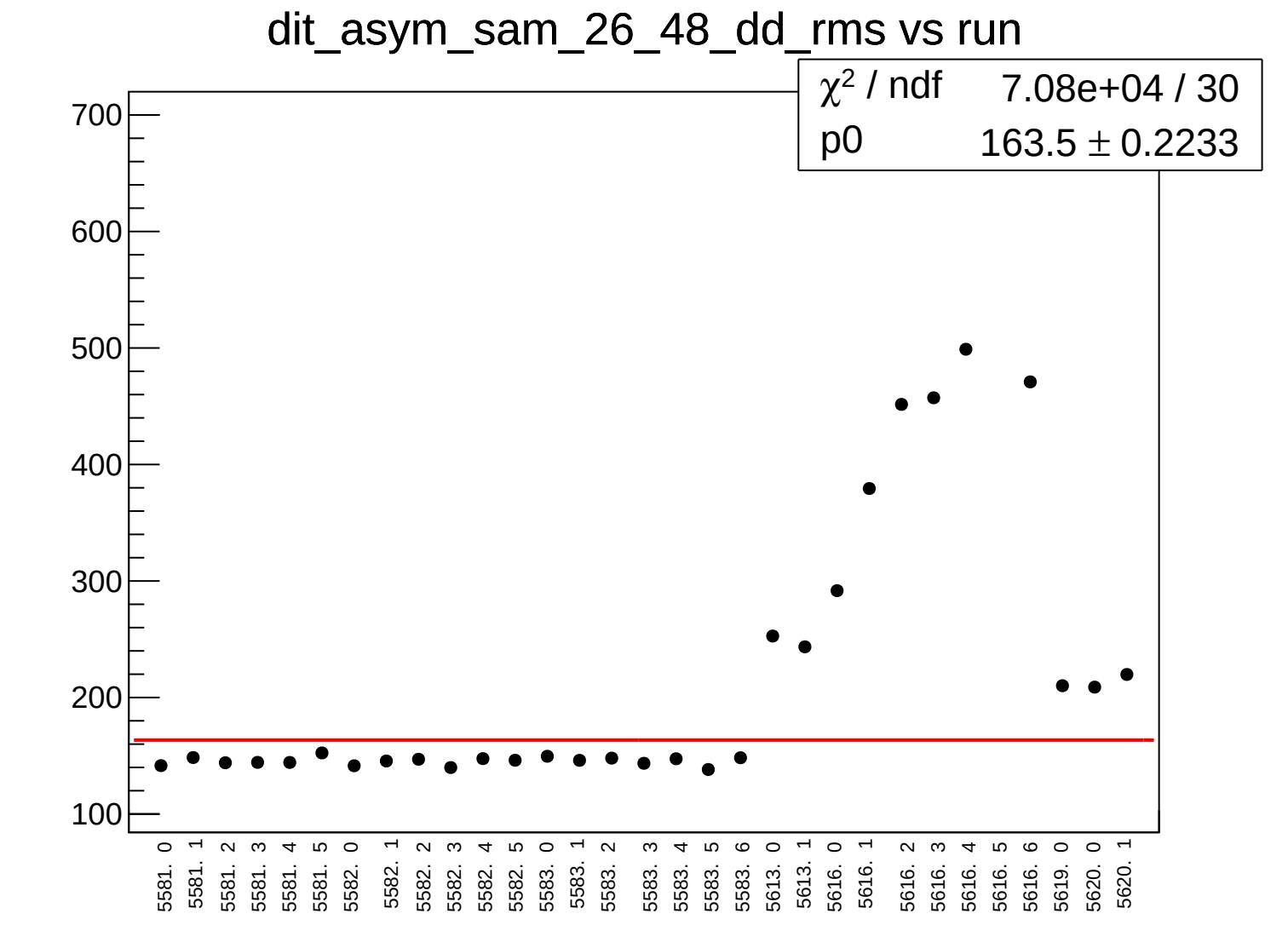

pull1D
Entries 31
Mean 0.02483
Std Dev 1.126
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

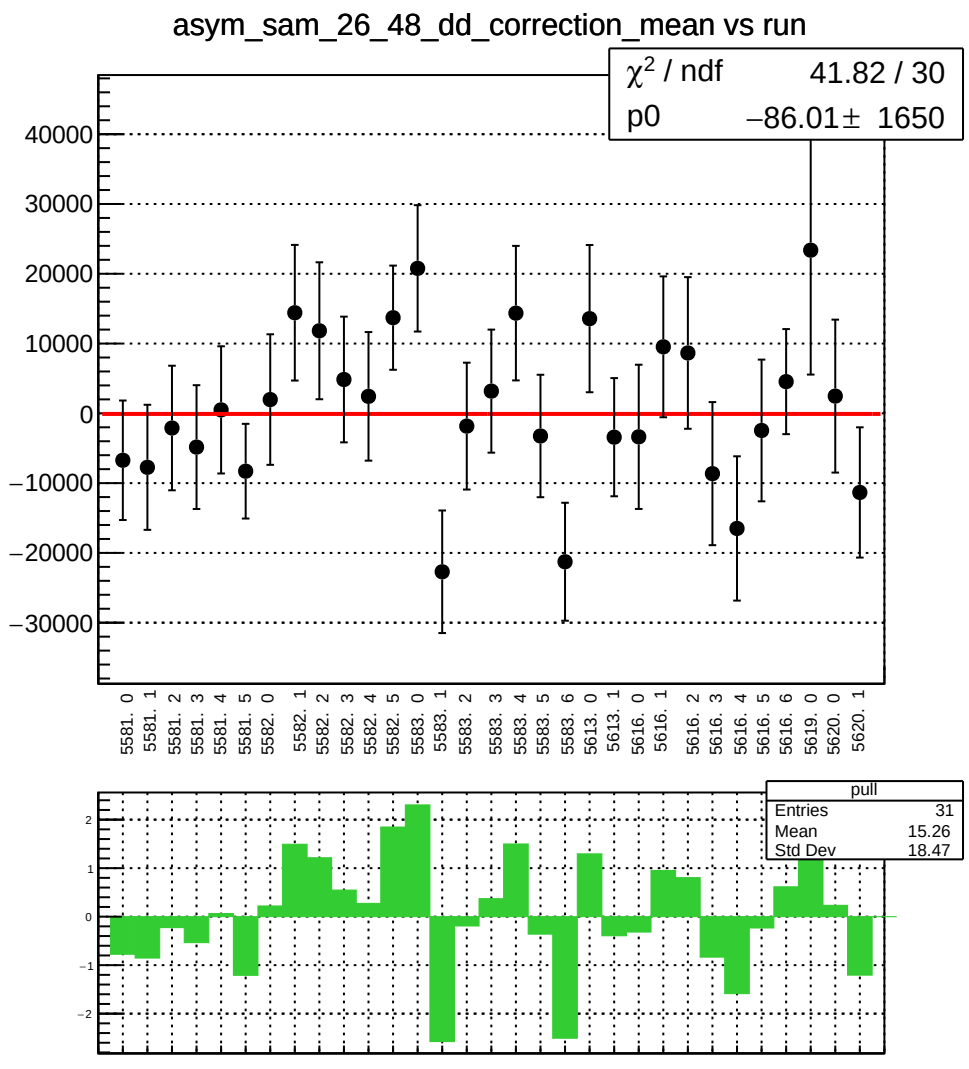

asym_sam_24_68_dd_correction_rms vs run
χ² / ndf 1.802e+04 / 30
p0 1781 ± 2.322
2600
2400
2200
2000
1800
1600
1400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

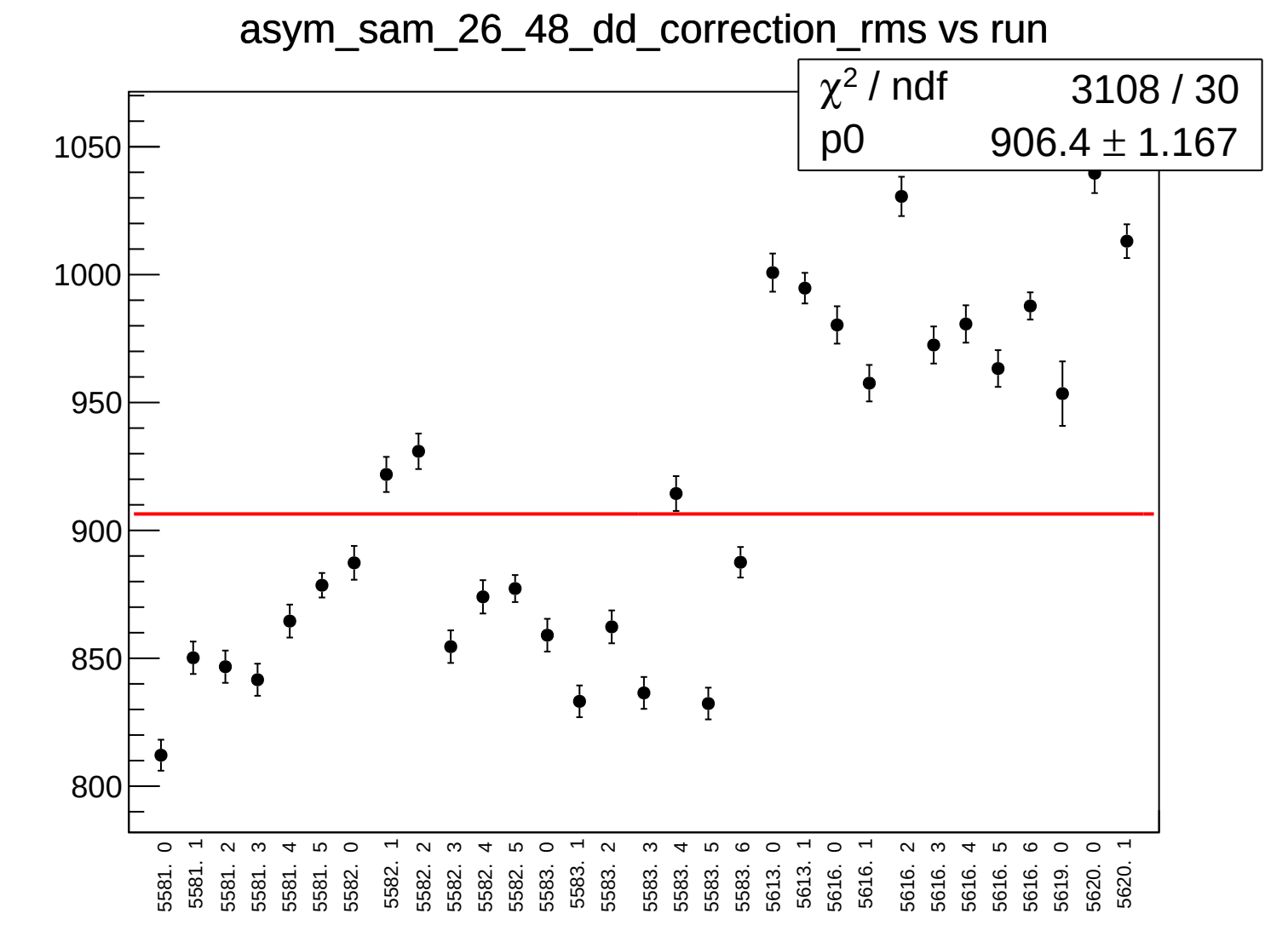

asym_sam_24_68_dd_mean vs run
×10^3
χ^2 / ndf 42.35 / 30
p0 3156 ± 3344
pull
Entries 31
Mean 11.58
Std Dev 20.93
pull1D
Entries 31
Mean −0.03627
Std Dev 1.168

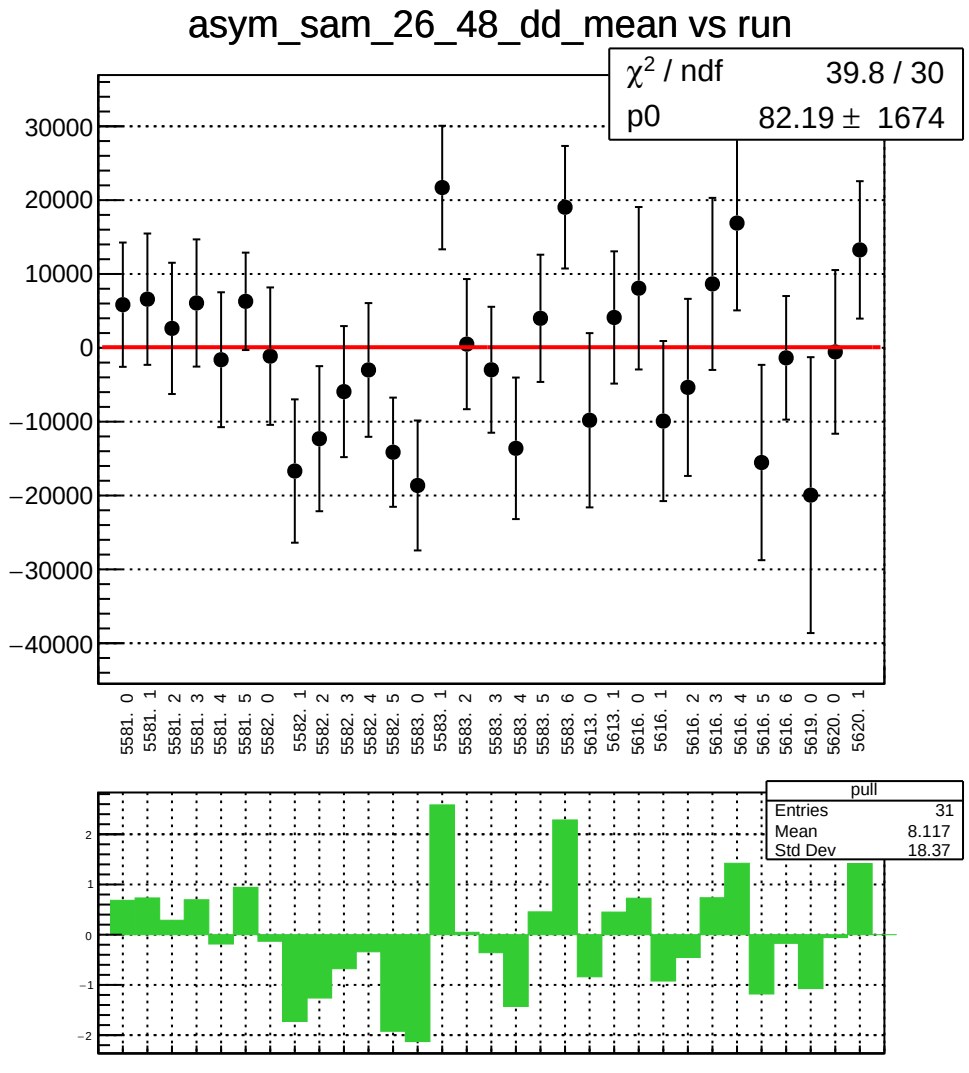

asym_sam_24_68_dd_rms vs run
χ² / ndf 3.231e+04 / 30
p0 1792 ± 2.365
4000
3500
3000
2500
2000
1500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

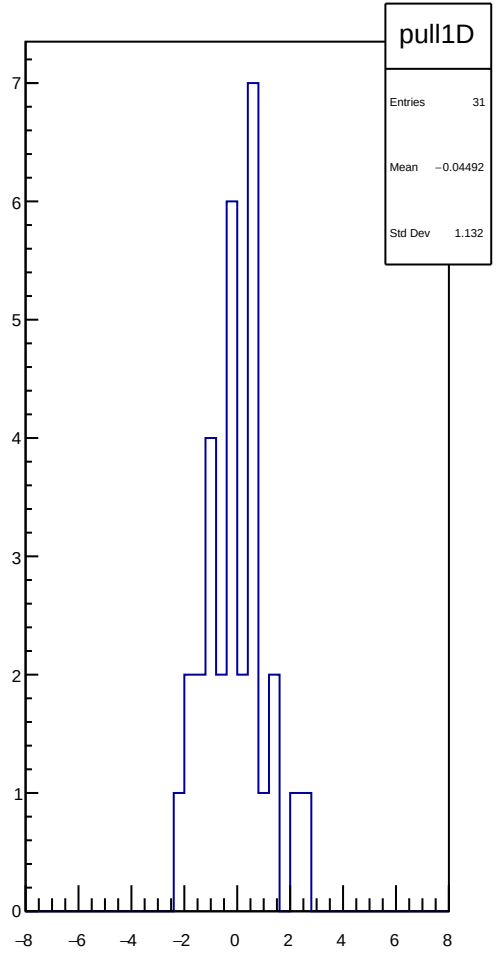

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 28.85 / 30
p0 −197.7 ± 315.8
10000
5000
0
−5000
−10000
−15000
−20000
−25000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 46.8
Std Dev 29.51
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 31
Mean 0.07741
Std Dev 0.9616
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

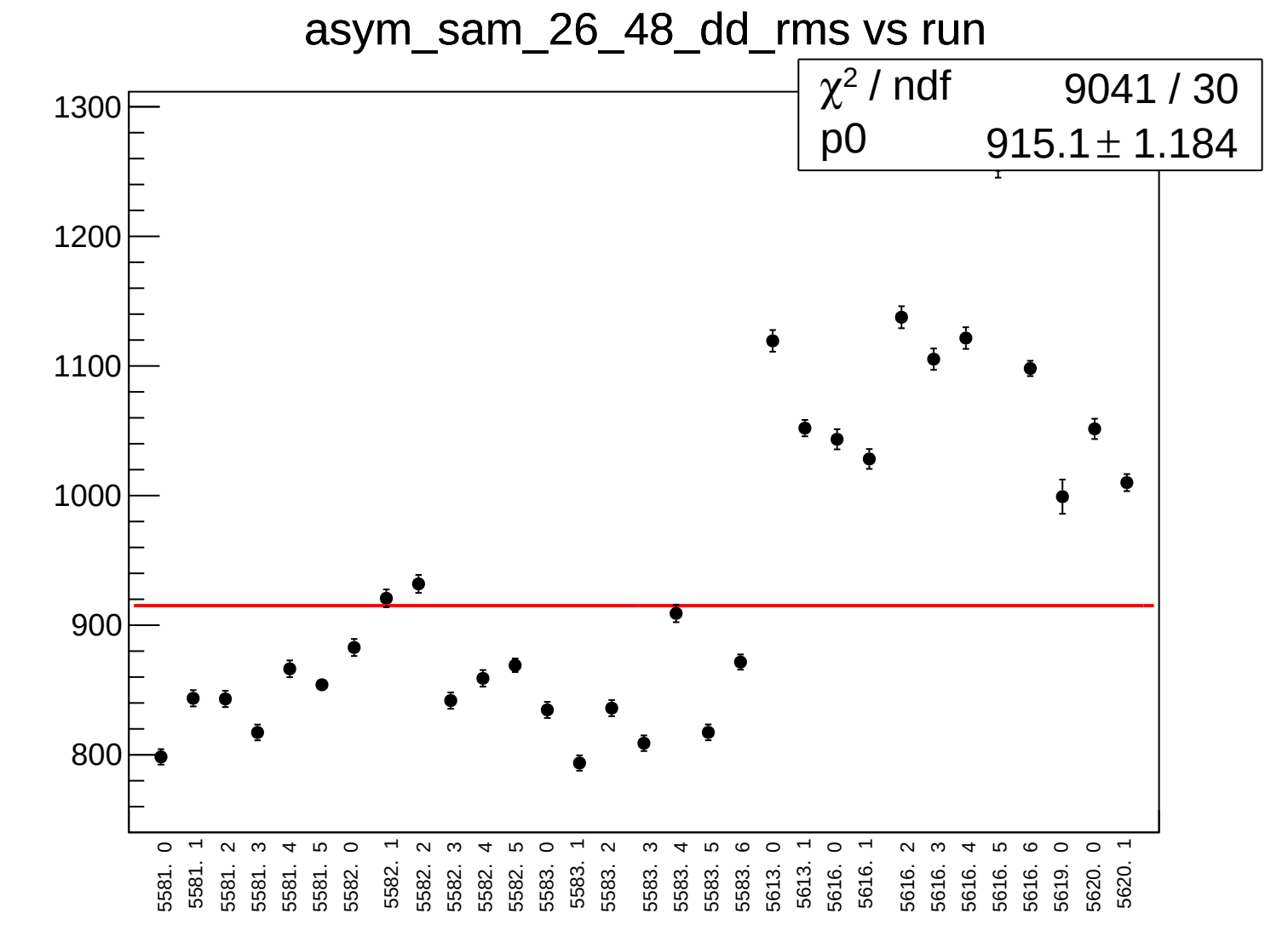

dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 7.08e+04 / 30
p0 163.5 ± 0.2233
700
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

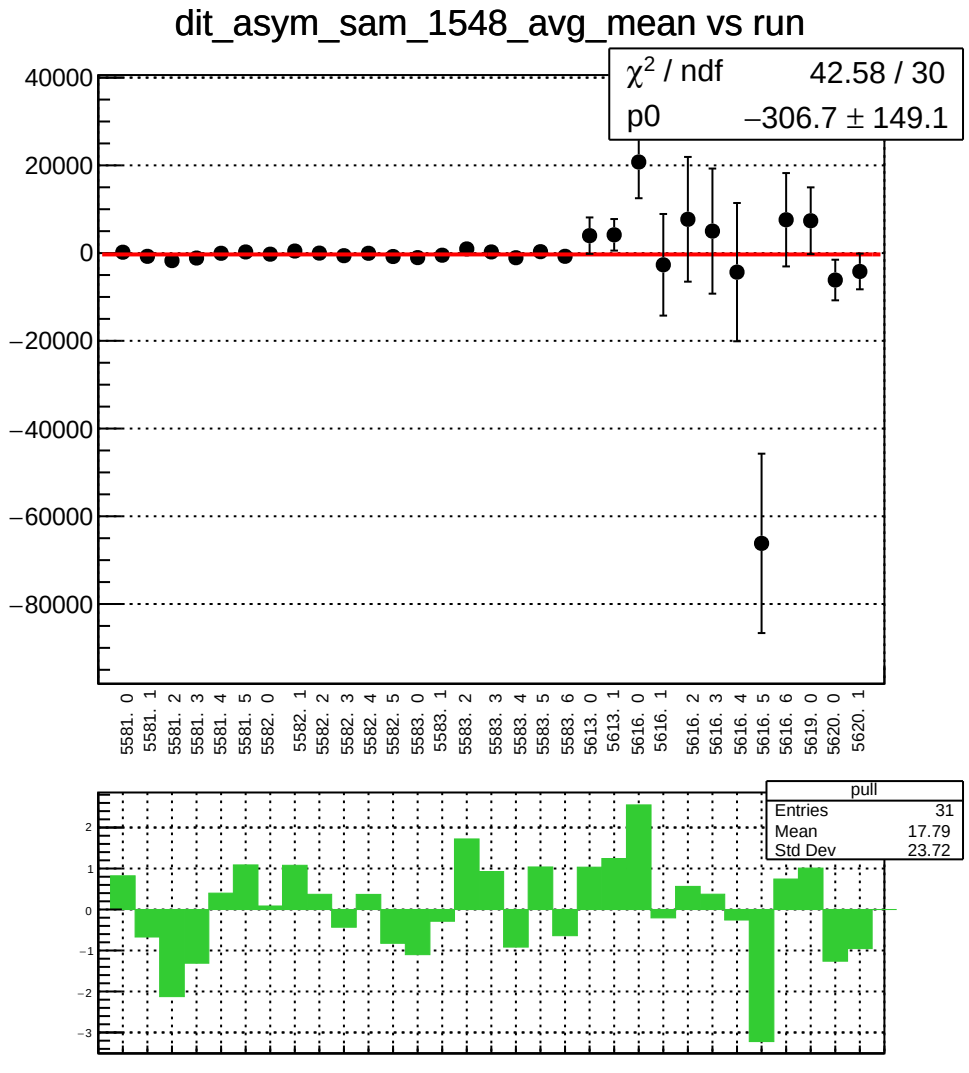

asym_sam_26_48_dd_correction_mean vs run
χ^2 / ndf 41.82 / 30
p0 −86.01± 1650
40000
30000
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 15.26
Std Dev 18.47
2
1
0
−1
−2
pull1D
Entries 31
Mean 0.04019
Std Dev 1.161
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

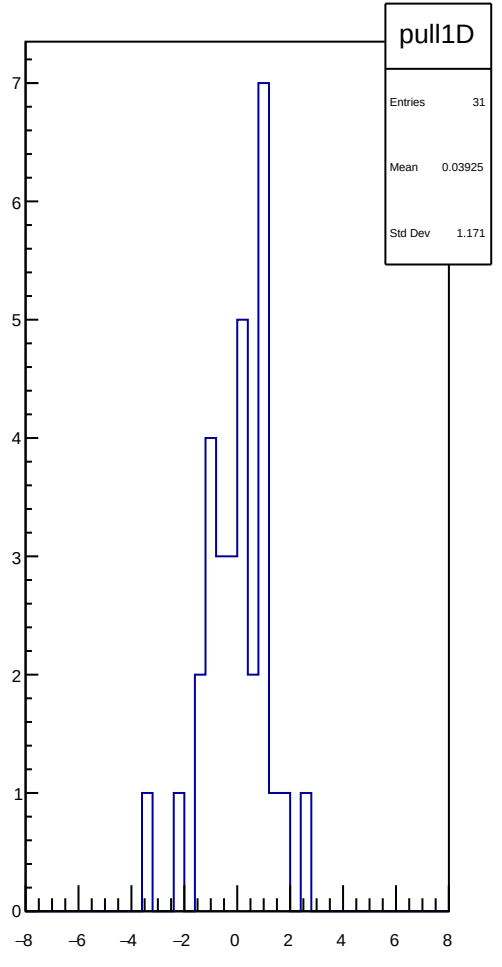

asym_sam_26_48_dd_correction_rms vs run
χ² / ndf 3108 / 30
p0 906.4 ± 1.167
1050
1000
950
900
850
800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

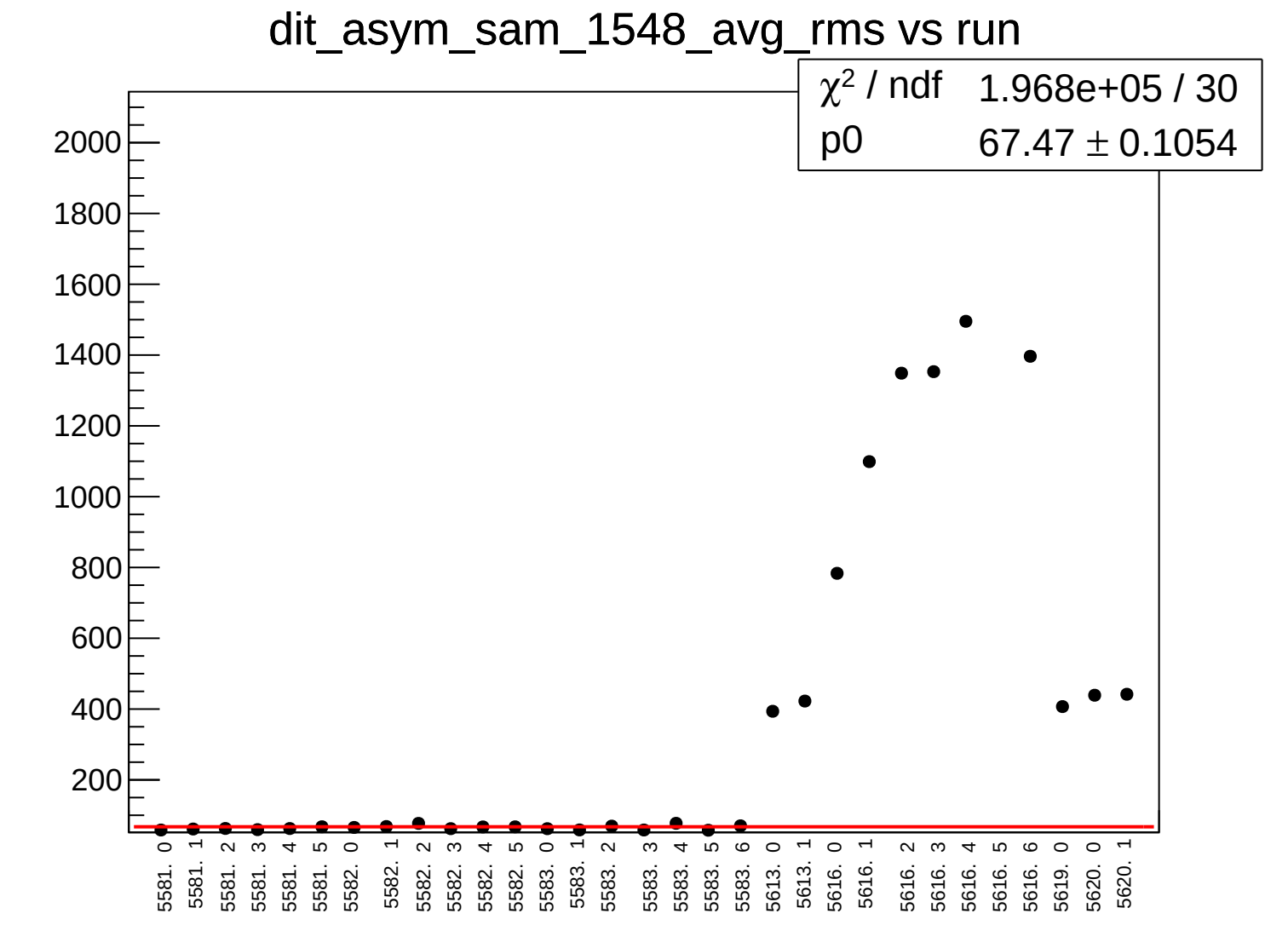

asym_sam_26_48_dd_mean vs run
χ² / ndf 39.8 / 30
p0 82.19 ± 1674
30000
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 8.117
Std Dev 18.37
2
1
0
−1
−2

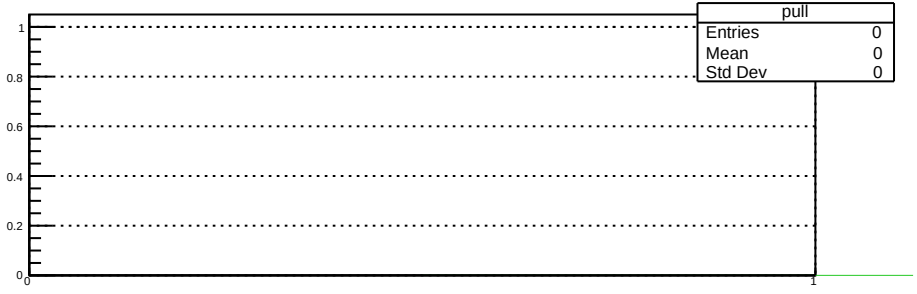

pull1D
Entries 31
Mean −0.04492
Std Dev 1.132
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

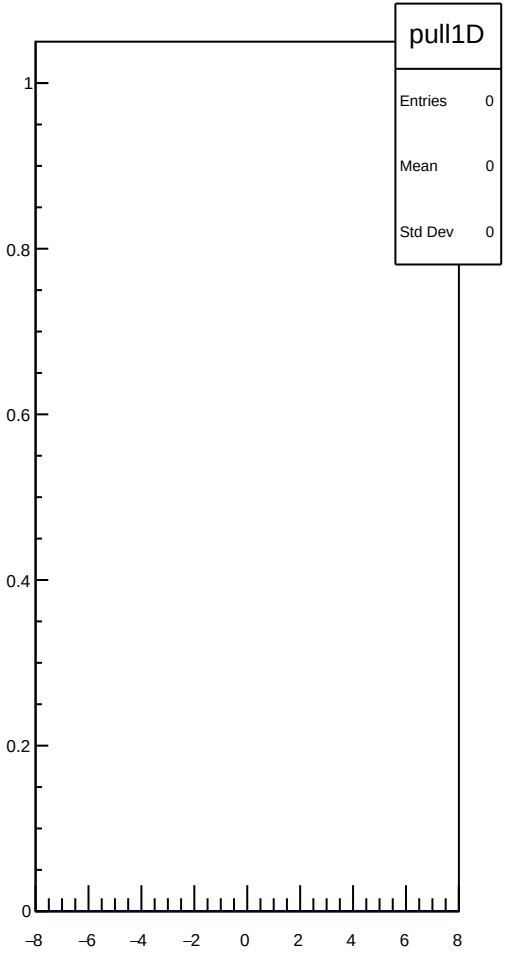

asym_sam_26_48_dd_rms vs run
χ² / ndf 9041 / 30
p0 915.1 ± 1.184
1300
1200
1100
1000
900
800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

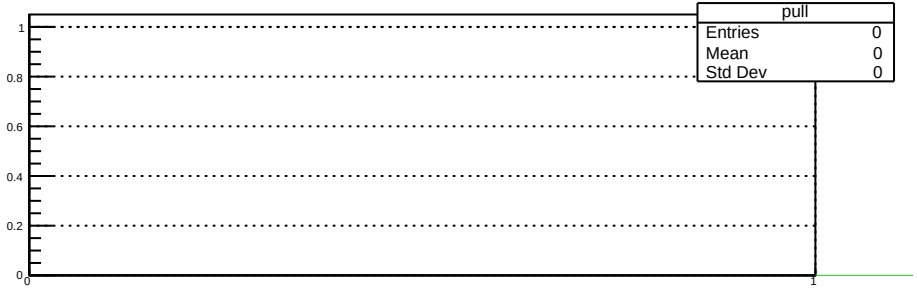

dit_asym_sam_1548_avg_mean vs run
χ² / ndf 42.58 / 30
p0 −306.7 ± 149.1
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 17.79
Std Dev 23.72
2
1
0
−1
−2
−3

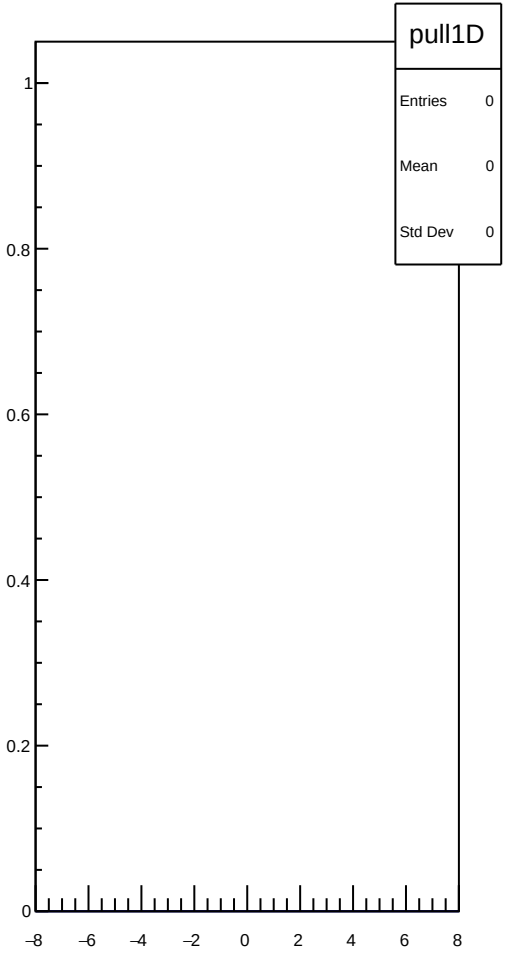

pull1D
Entries 31
Mean 0.03925
Std Dev 1.171
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

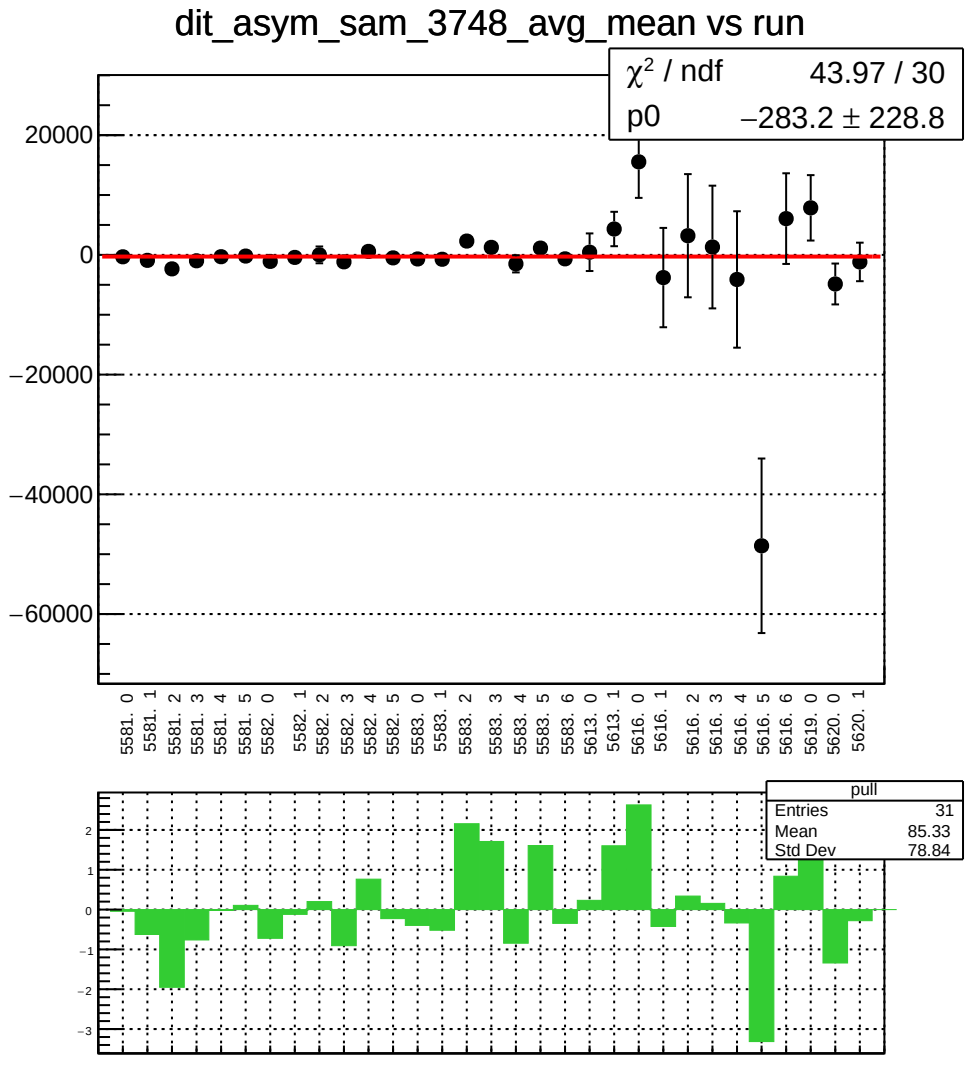

dit_asym_sam_1548_avg_rms vs run
χ² / ndf 1.968e+05 / 30
p0 67.47 ± 0.1054
2000
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

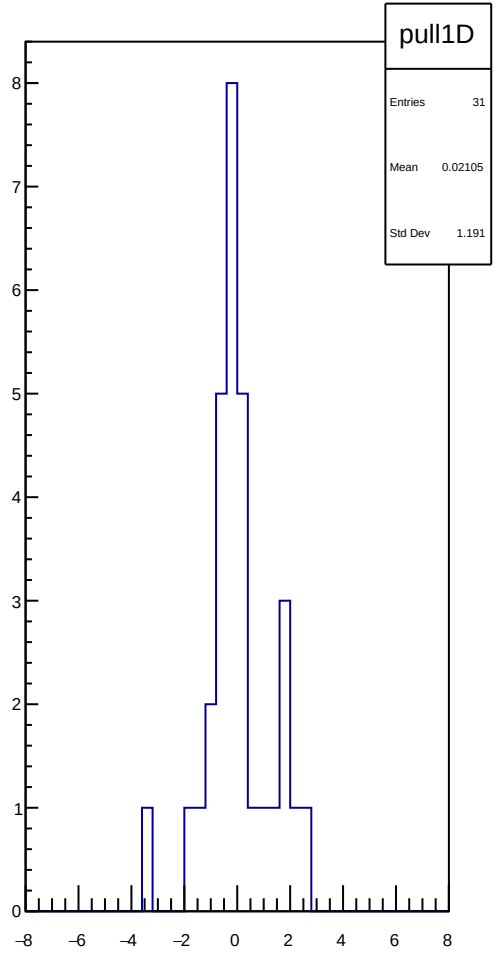

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

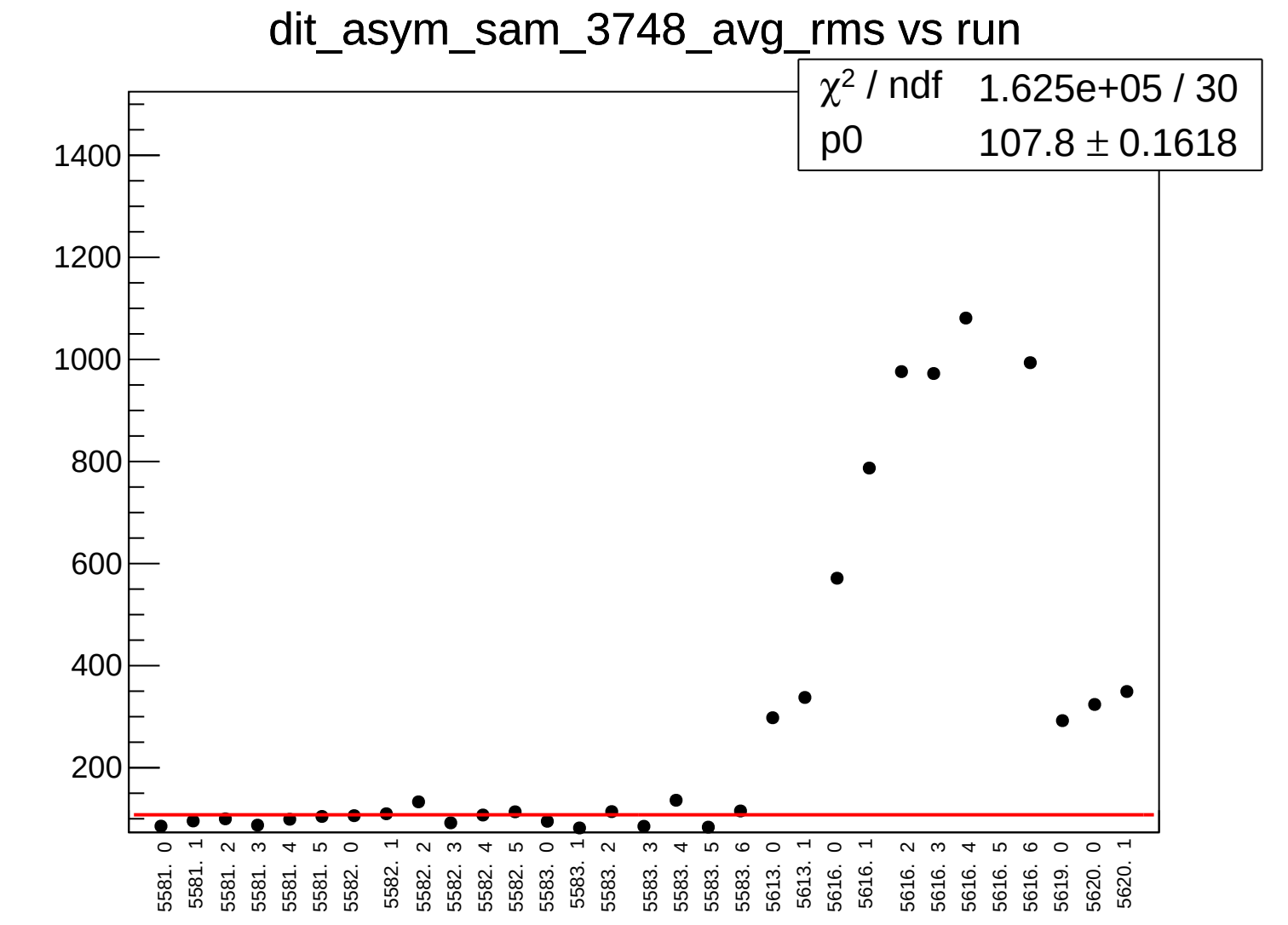

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

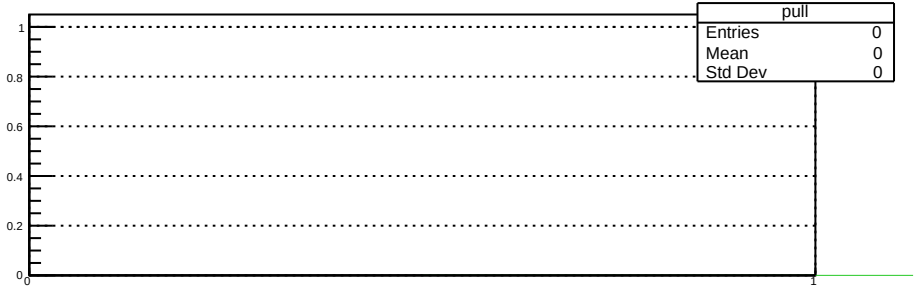

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

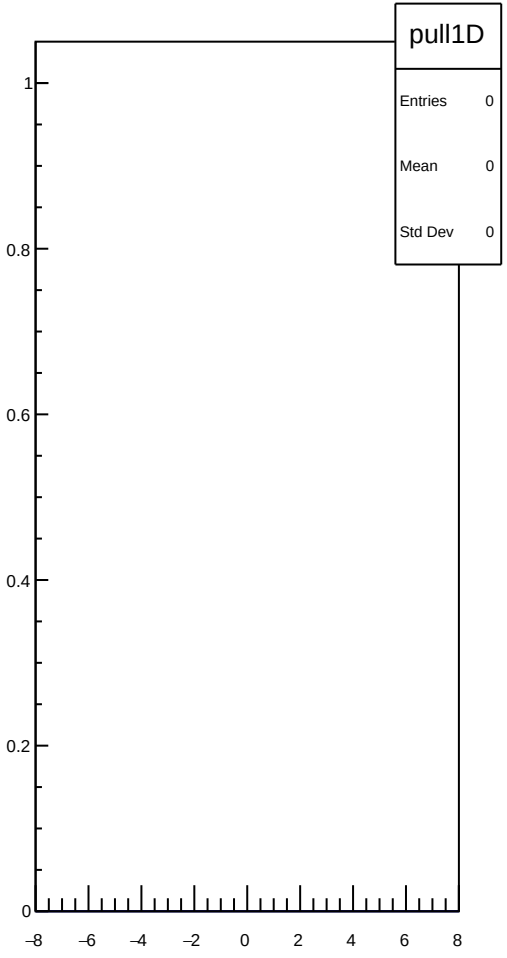

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

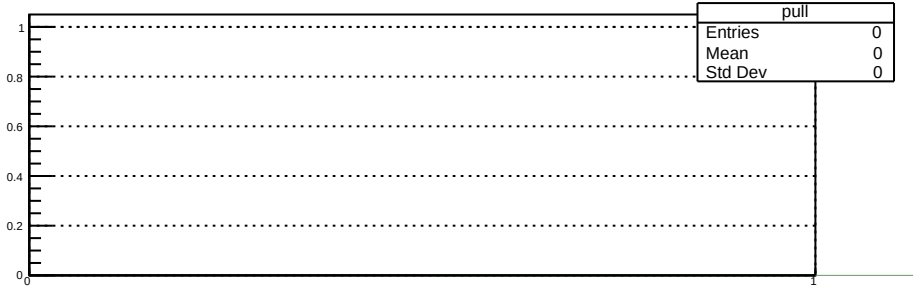

dit_asym_sam_3748_avg_mean vs run
χ² / ndf 43.97 / 30
p0 −283.2 ± 228.8
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 85.33
Std Dev 78.84
2
1
0
−1
−2
−3

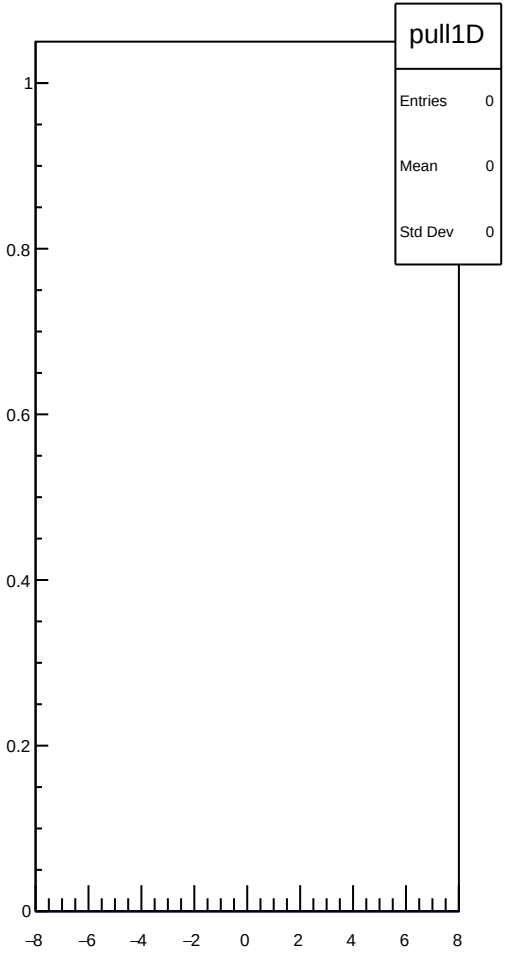

pull1D
Entries 31
Mean 0.02105
Std Dev 1.191
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

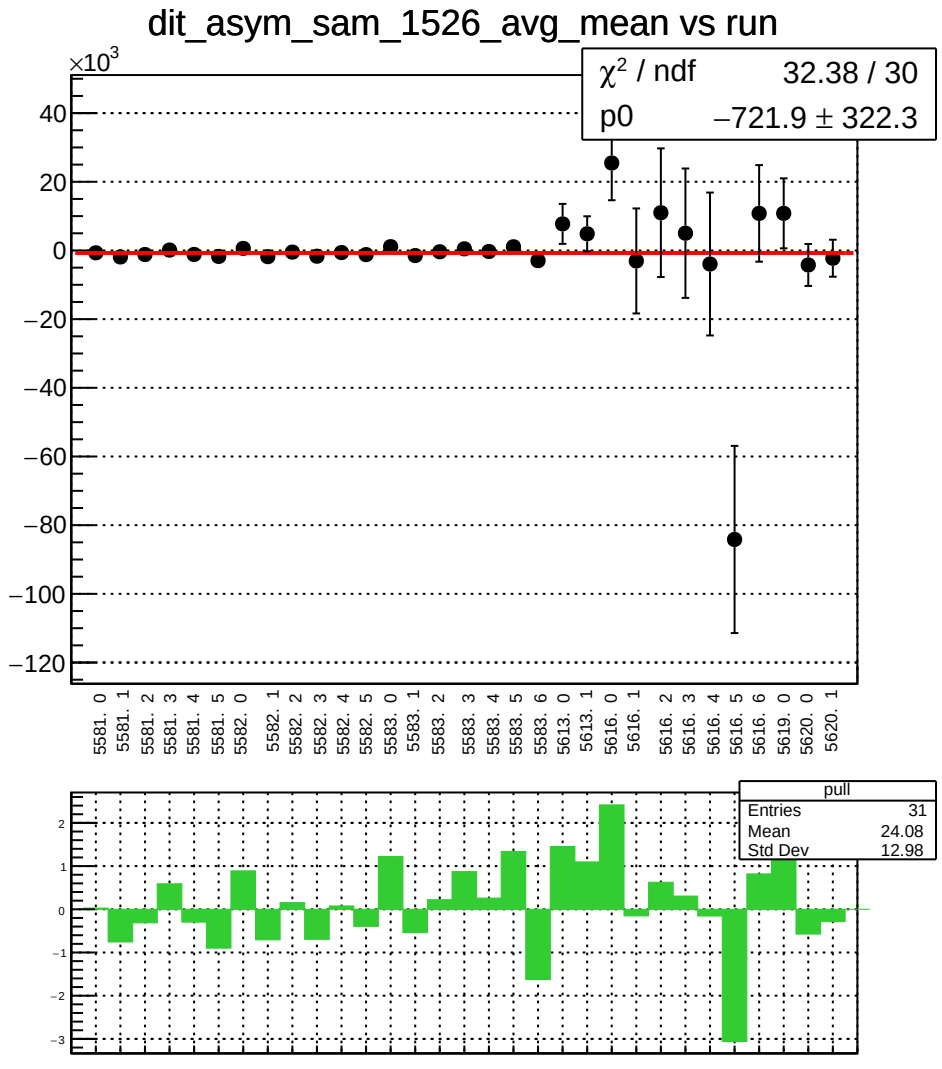

dit_asym_sam_3748_avg_rms vs run
χ² / ndf 1.625e+05 / 30
p0 107.8 ± 0.1618
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

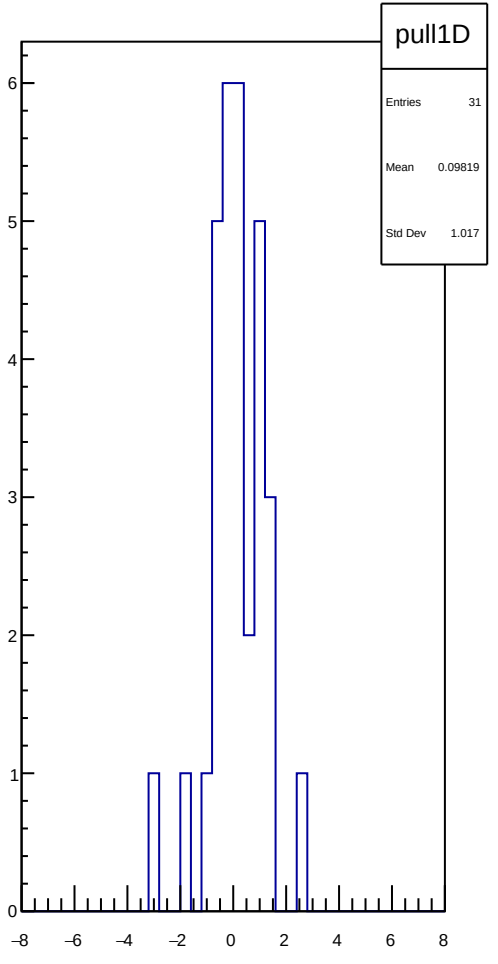

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

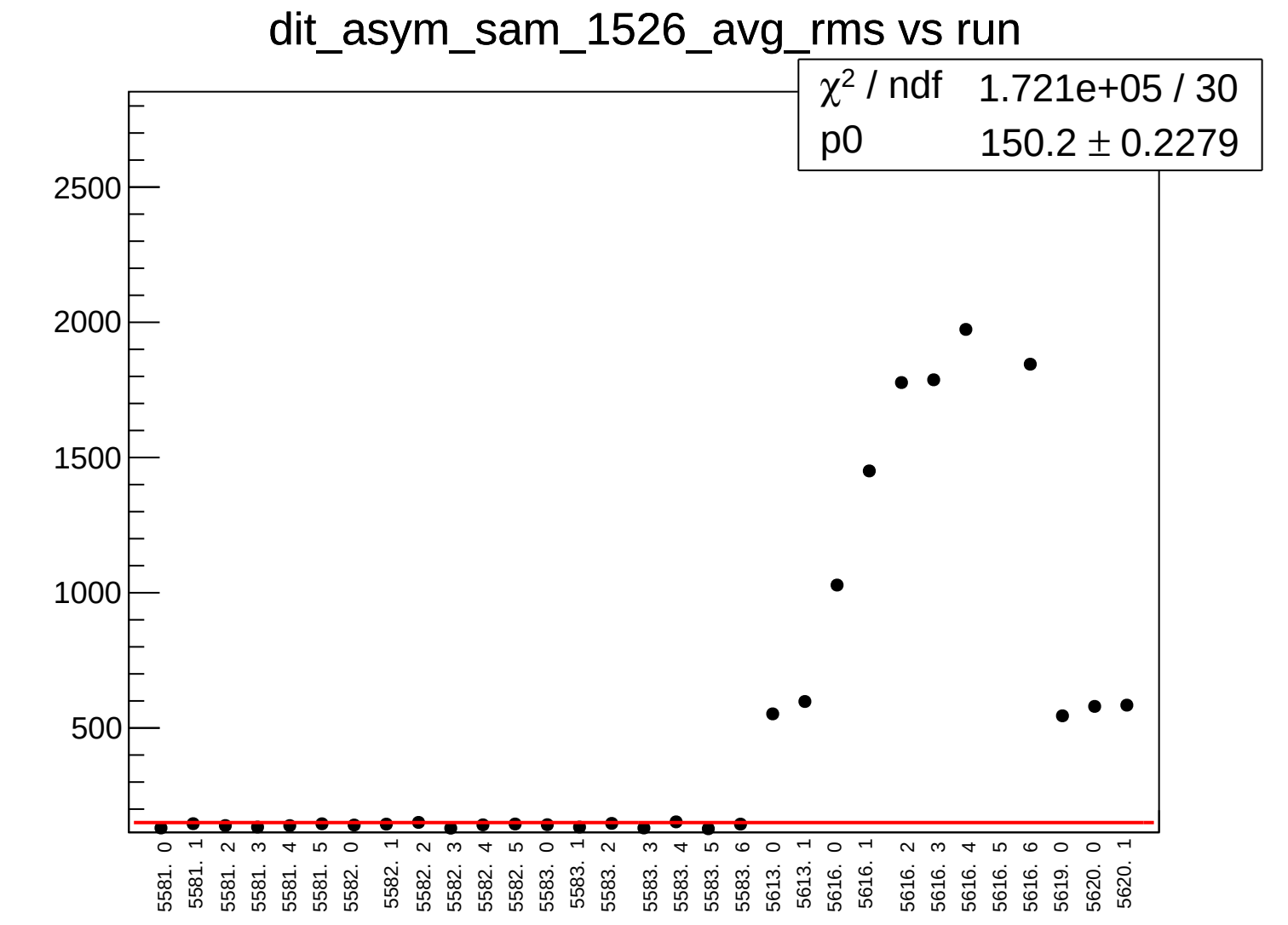

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

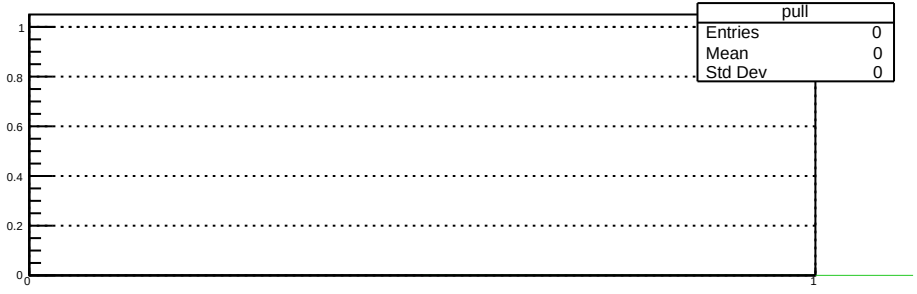

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

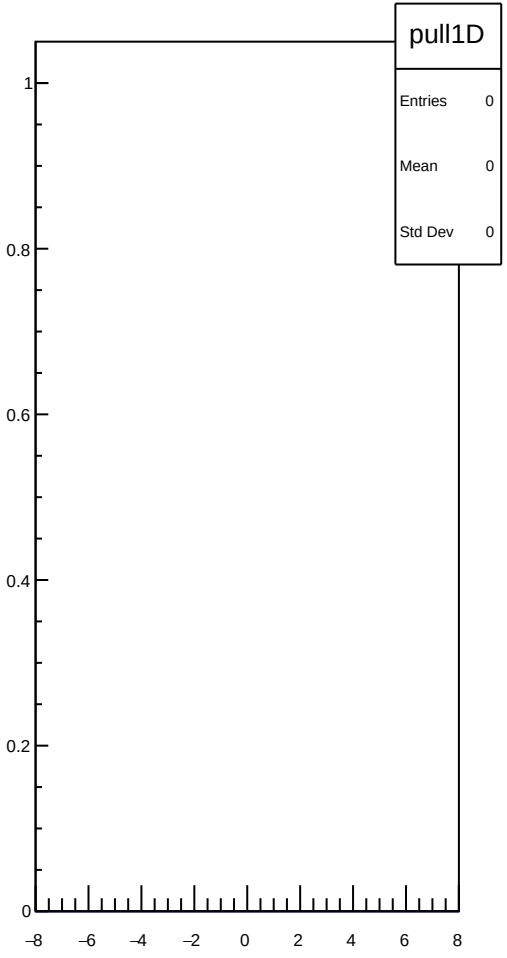

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

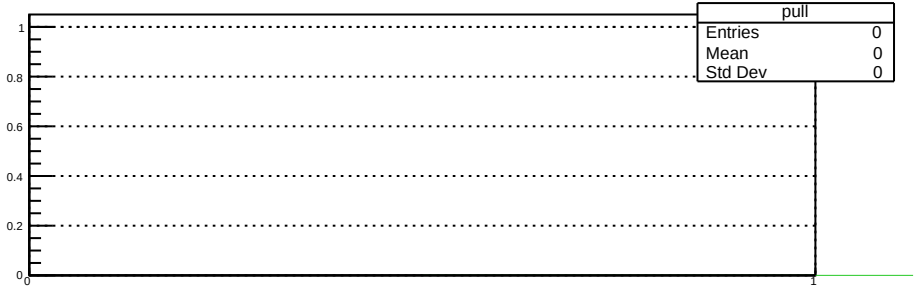

dit_asym_sam_1526_avg_mean vs run
×10^3
χ² / ndf 32.38 / 30
p0 −721.9 ± 322.3
40
20
0
−20
−40
−60
−80
−100
−120
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 24.08
Std Dev 12.98
2
1
0
−1
−2
−3

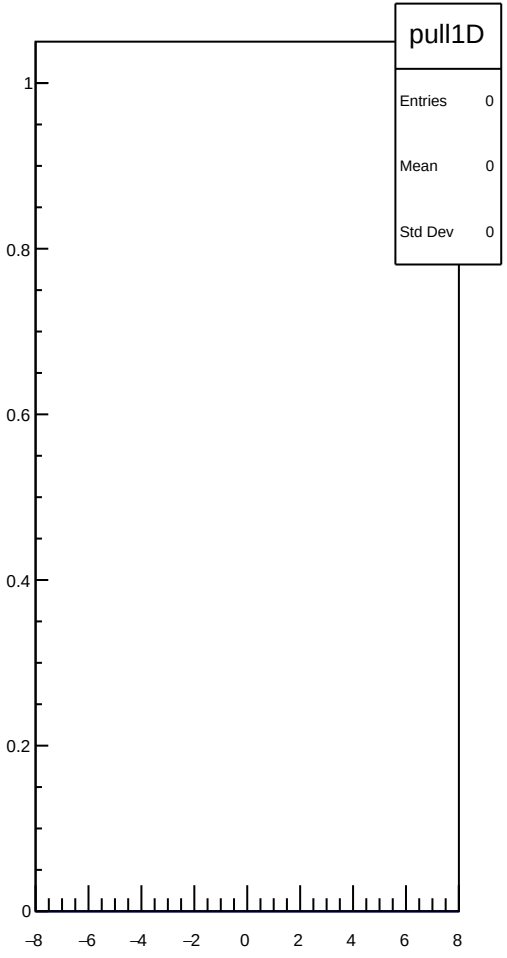

pull1D
Entries 31
Mean 0.09819
Std Dev 1.017
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

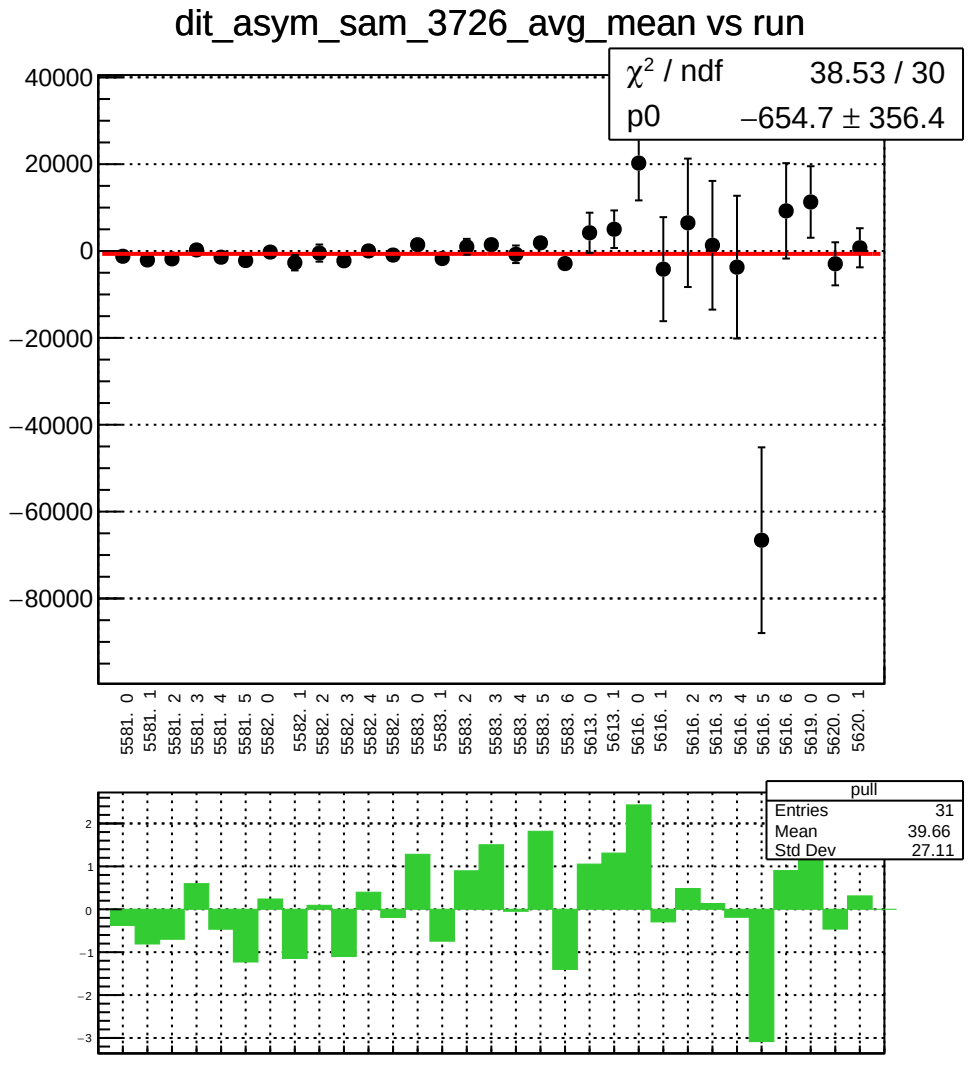

dit_asym_sam_1526_avg_rms vs run
χ² / ndf 1.721e+05 / 30
p0 150.2 ± 0.2279
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

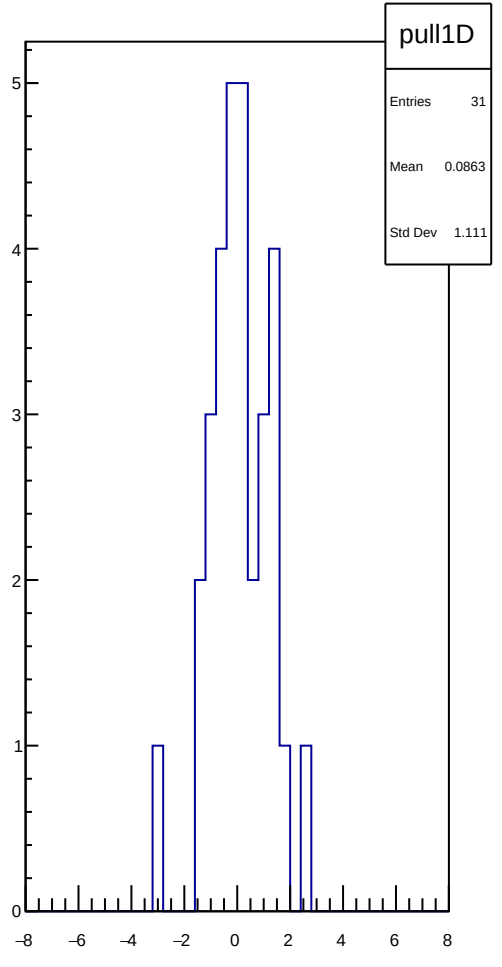

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

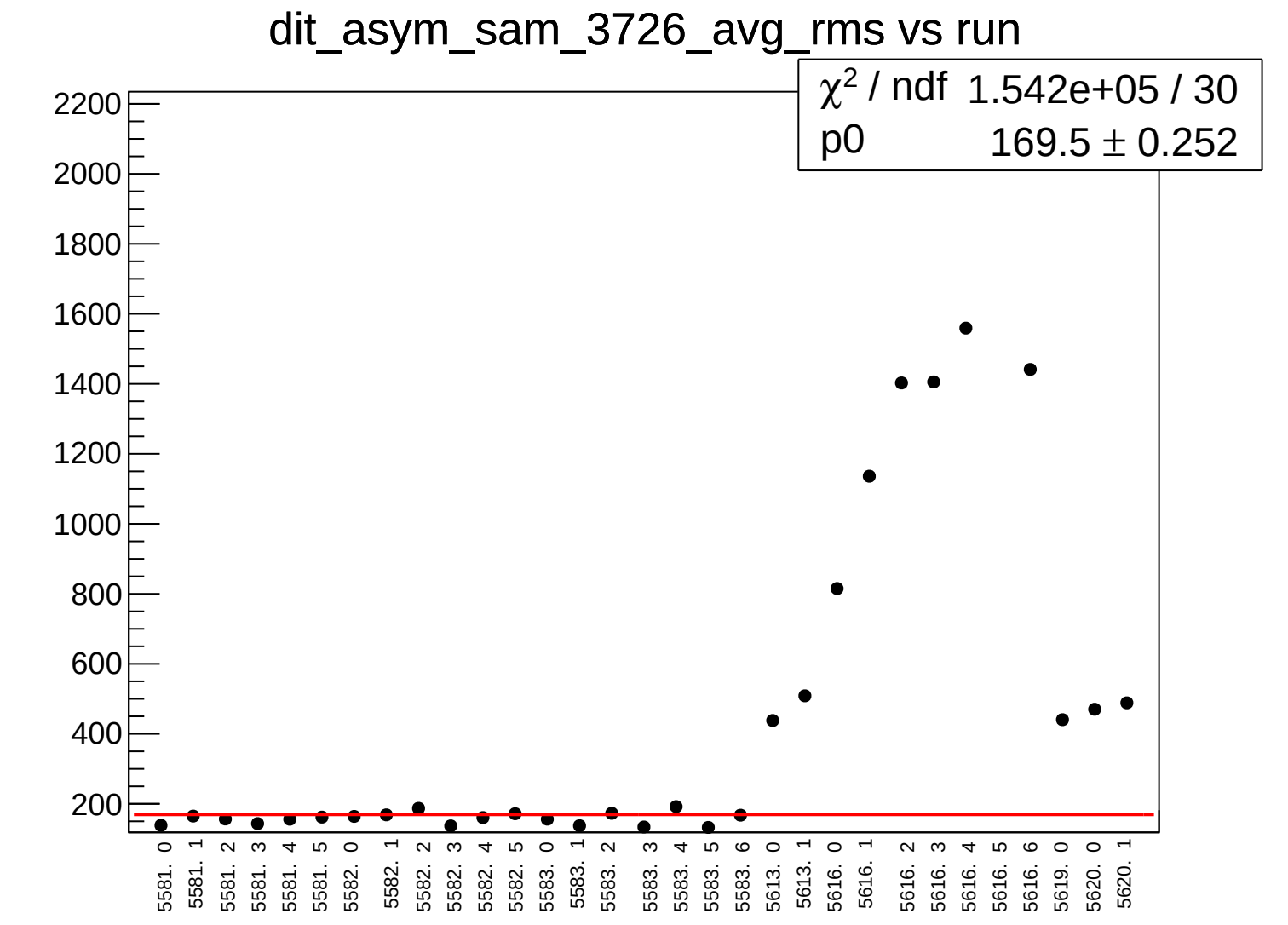

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

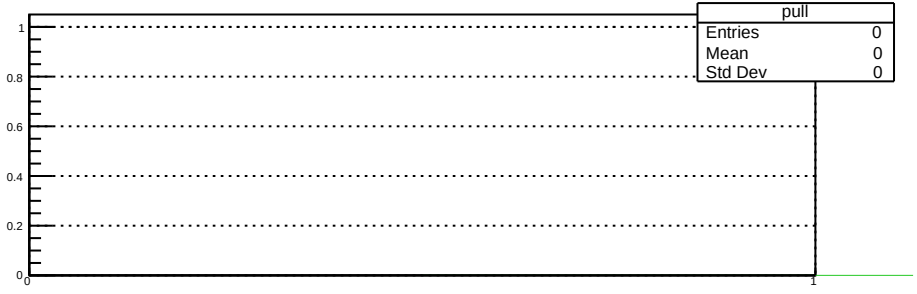

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

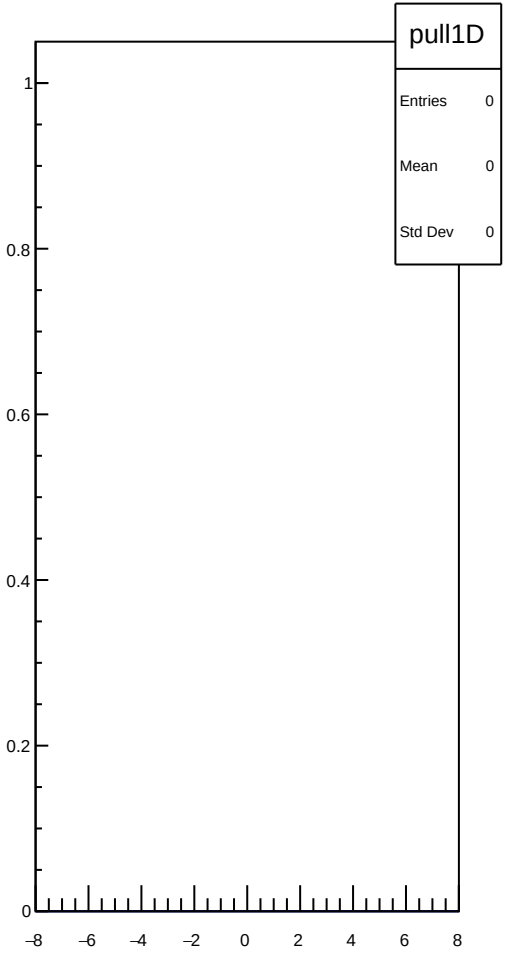

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

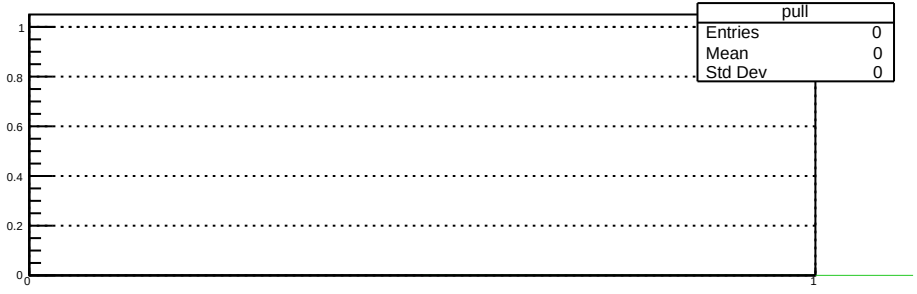

dit_asym_sam_3726_avg_mean vs run
χ² / ndf 38.53 / 30
p0 −654.7 ± 356.4
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 39.66
Std Dev 27.11
2
1
0
−1
−2
−3

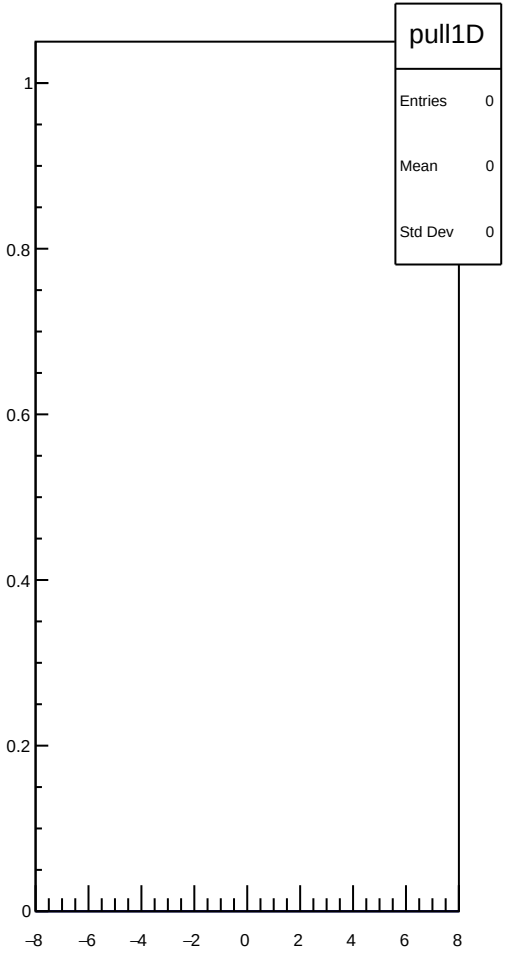

pull1D
Entries 31
Mean 0.0863
Std Dev 1.111
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

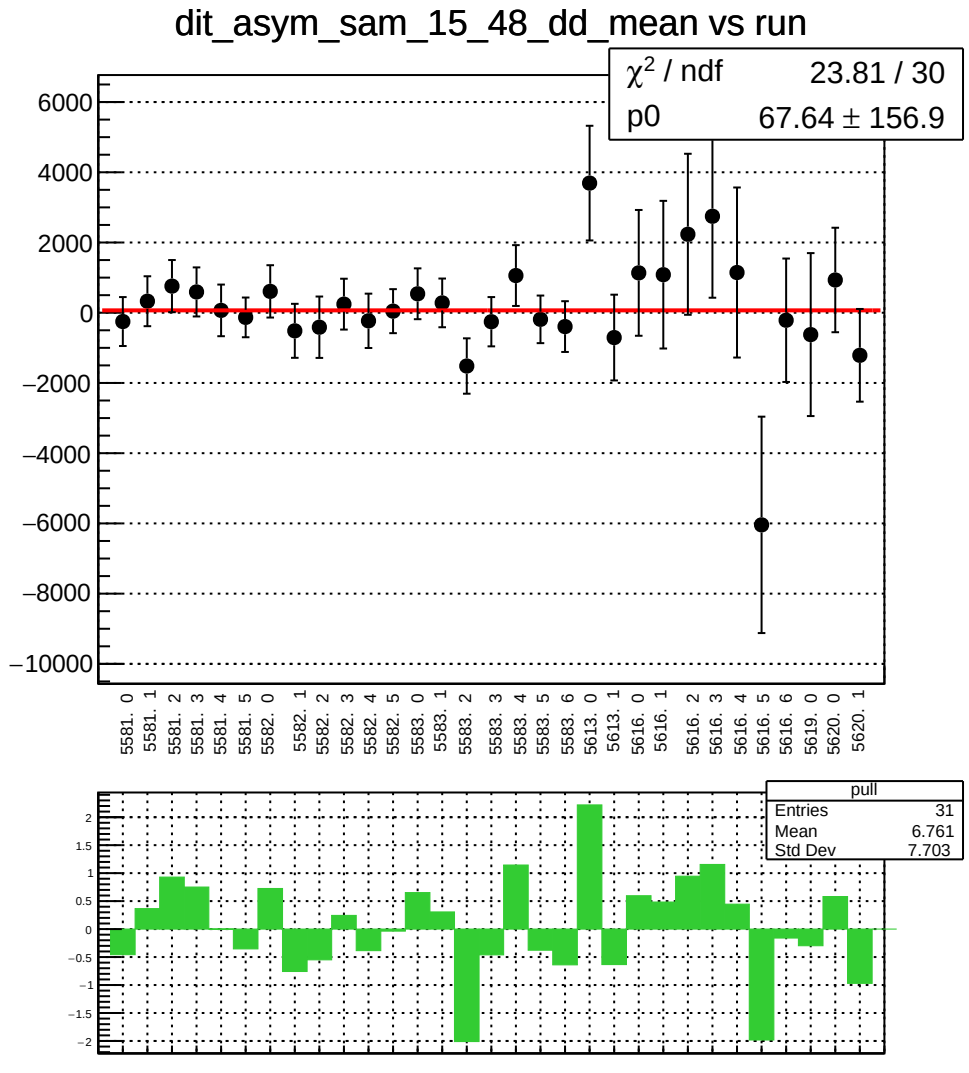

dit_asym_sam_3726_avg_rms vs run
χ² / ndf 1.542e+05 / 30
p0 169.5 ± 0.252
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

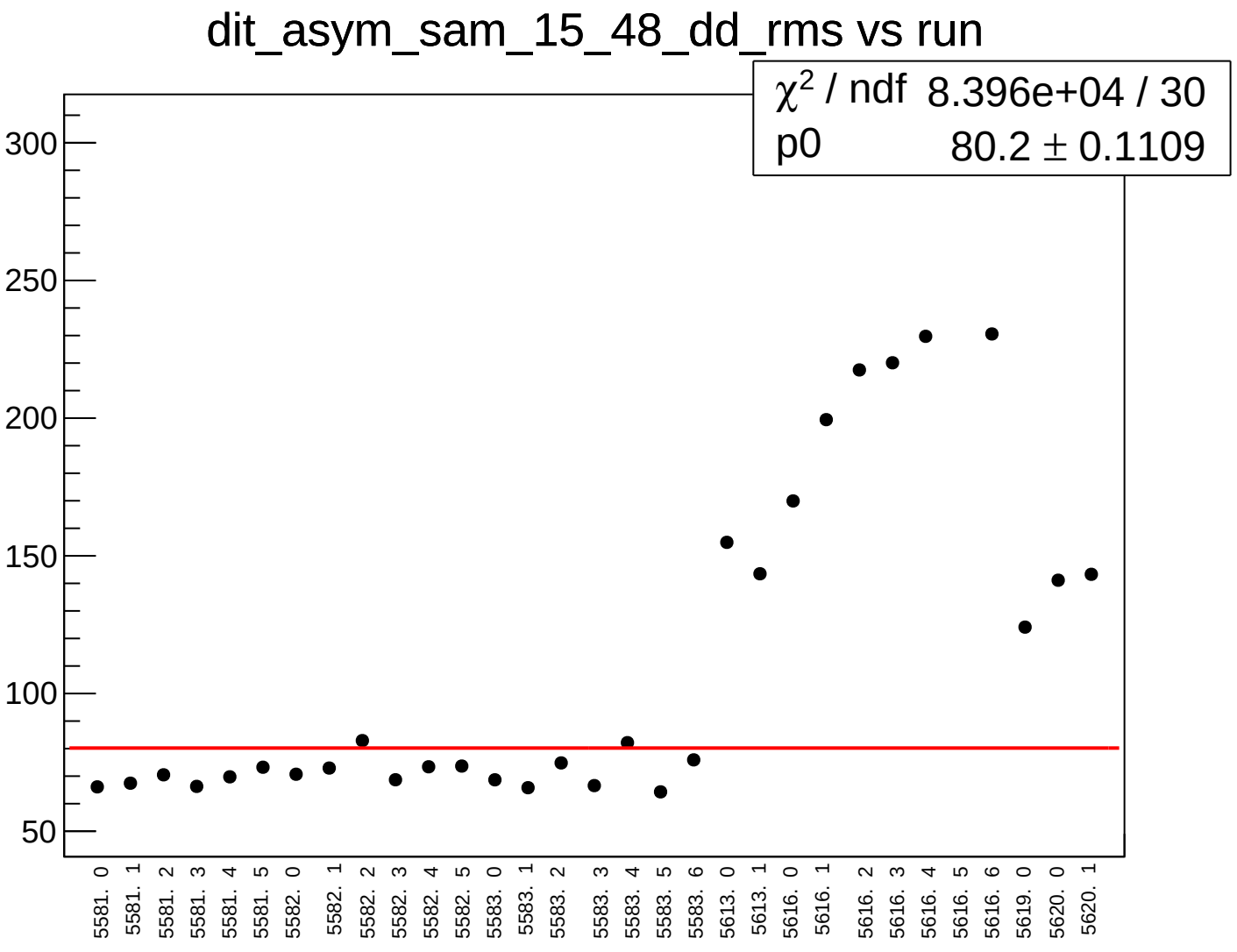

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

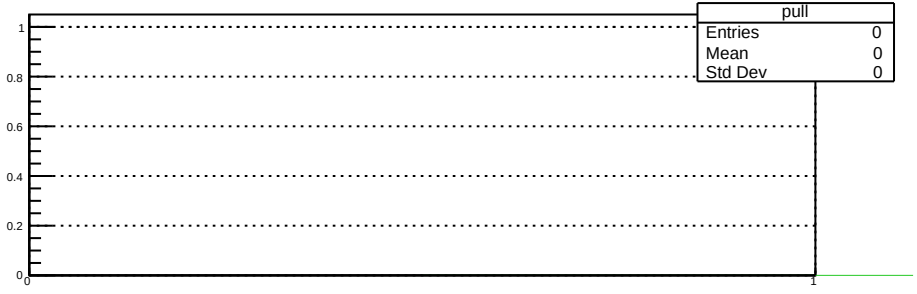

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

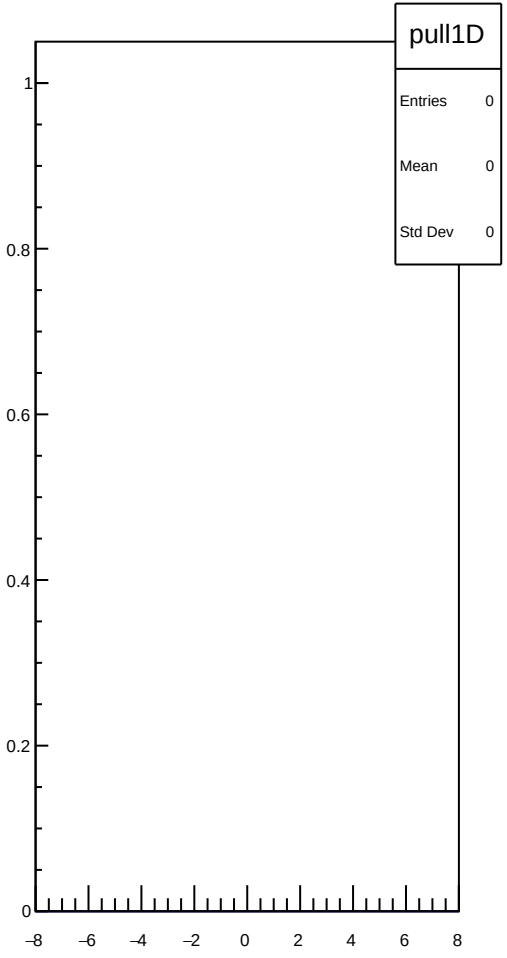

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

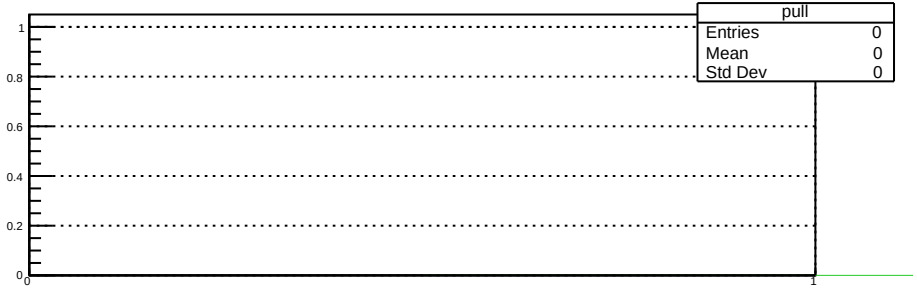

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

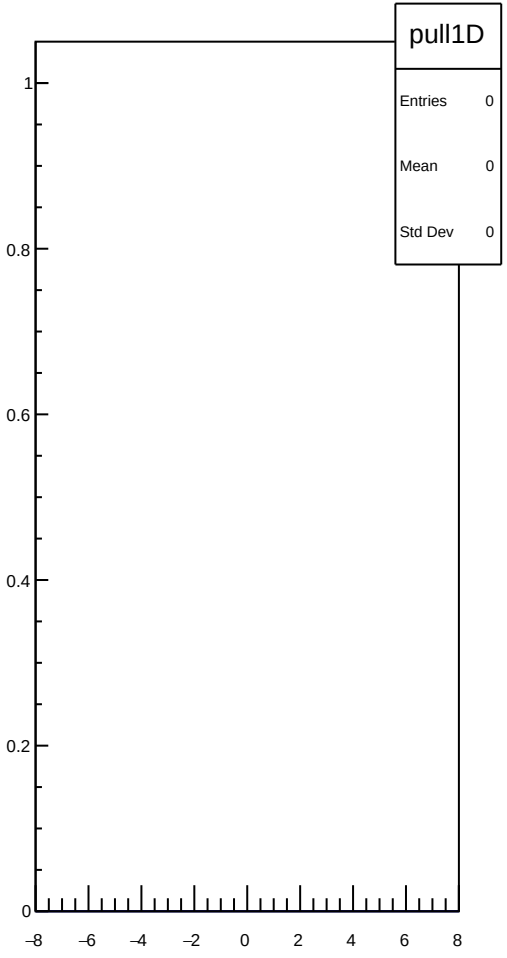

dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 23.81 / 30
p0 67.64 ± 156.9
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 6.761
Std Dev 7.703
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean 0.04736
Std Dev 0.8751
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

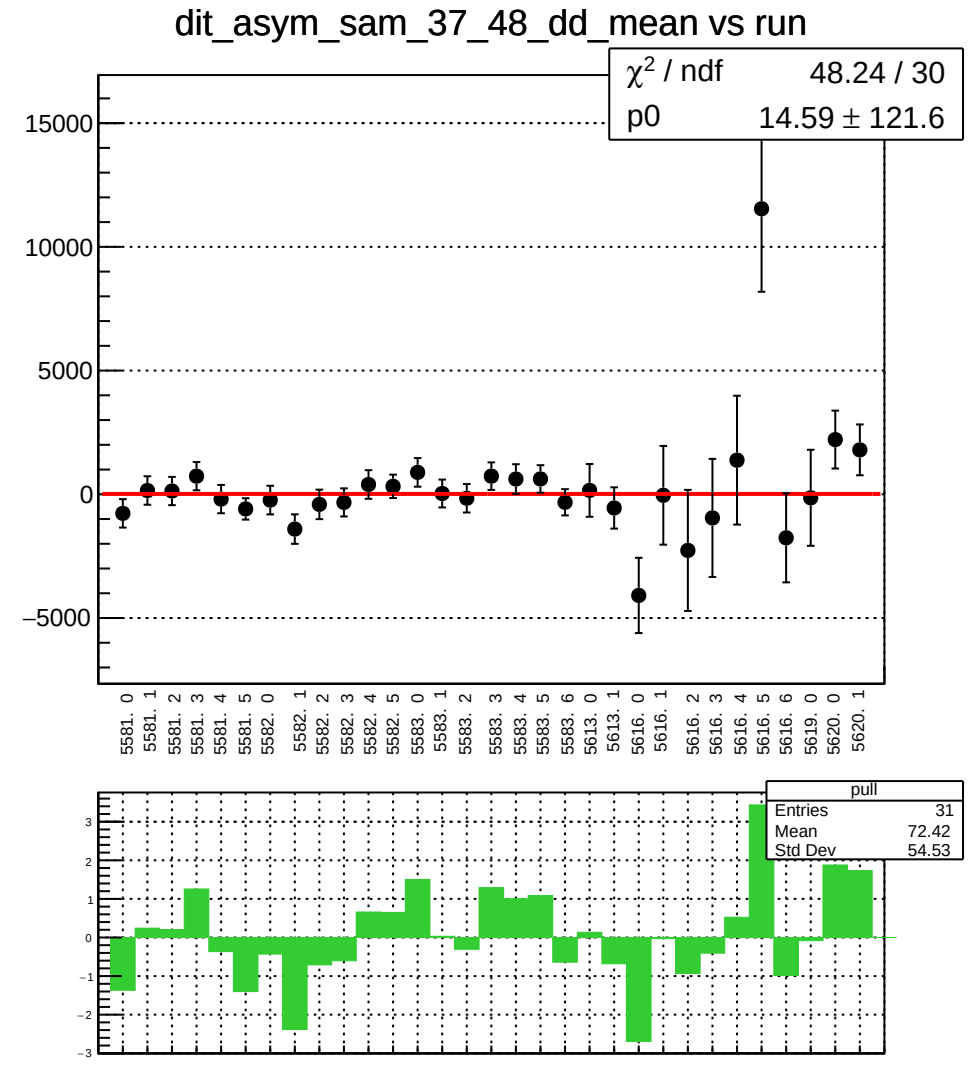

dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 8.396e+04 / 30
p0 80.2 ± 0.1109
300
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

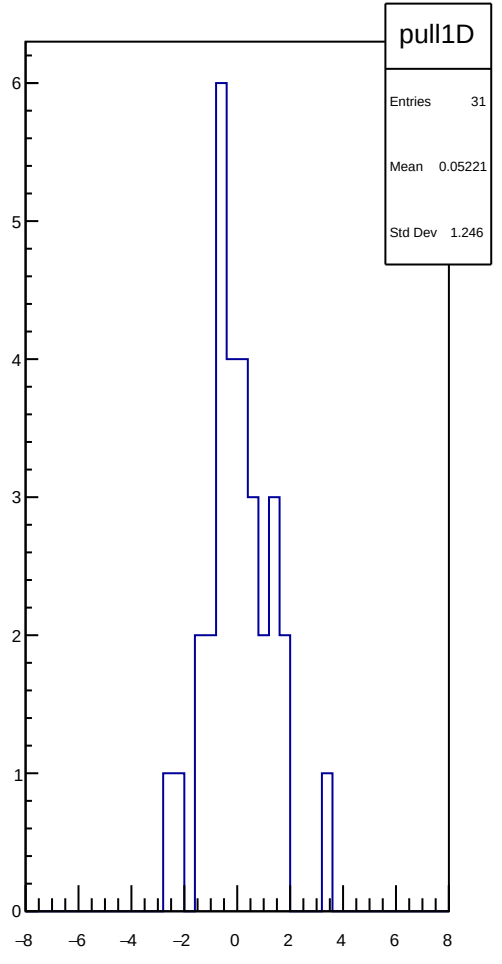

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

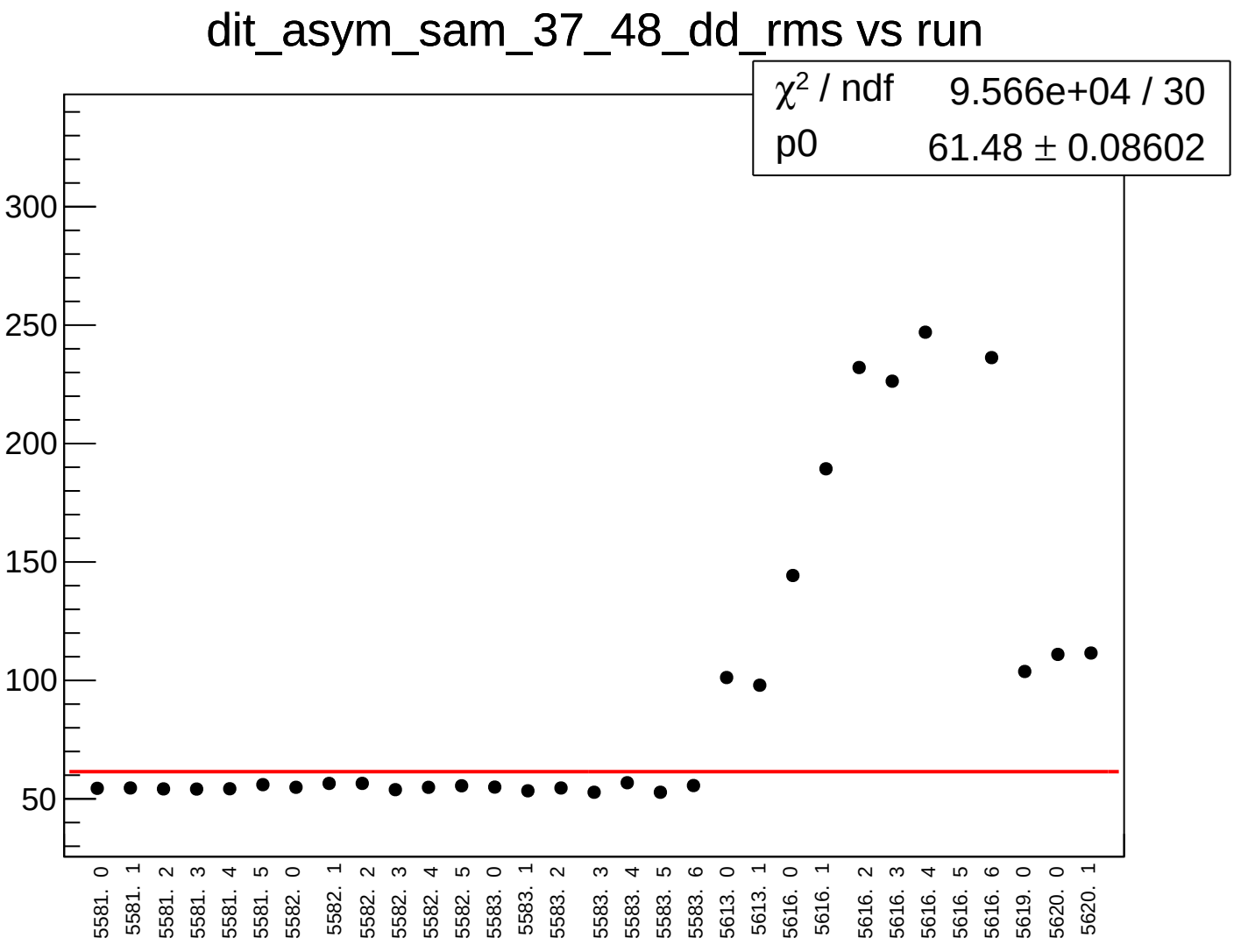

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

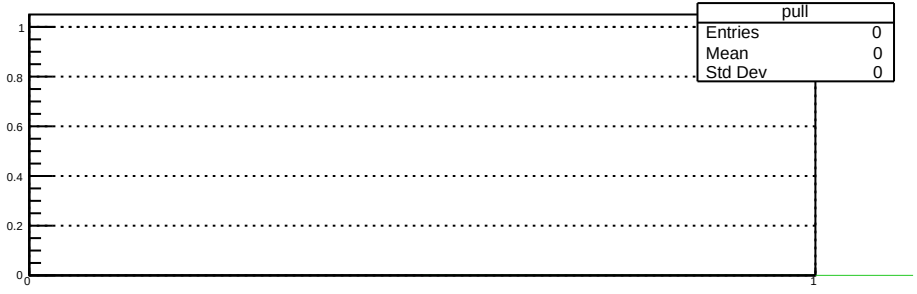

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

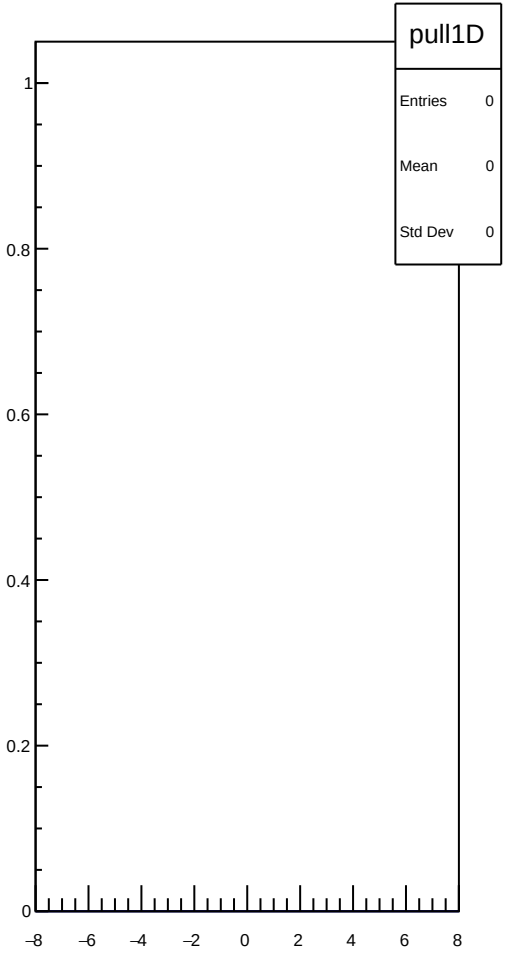

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

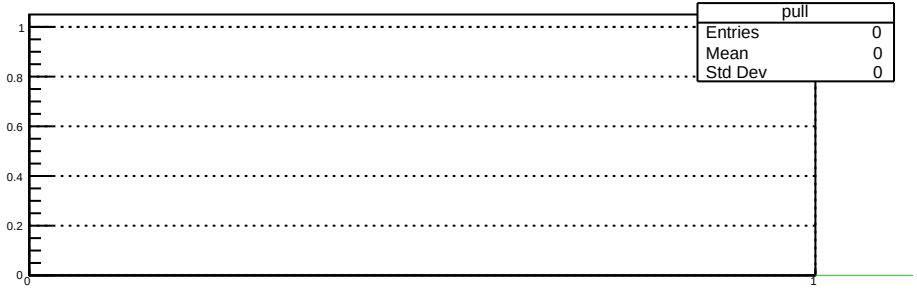

dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 48.24 / 30
p0 14.59 ± 121.6
15000
10000
5000
0
−5000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 72.42
Std Dev 54.53
3
2
1
0
−1
−2
−3

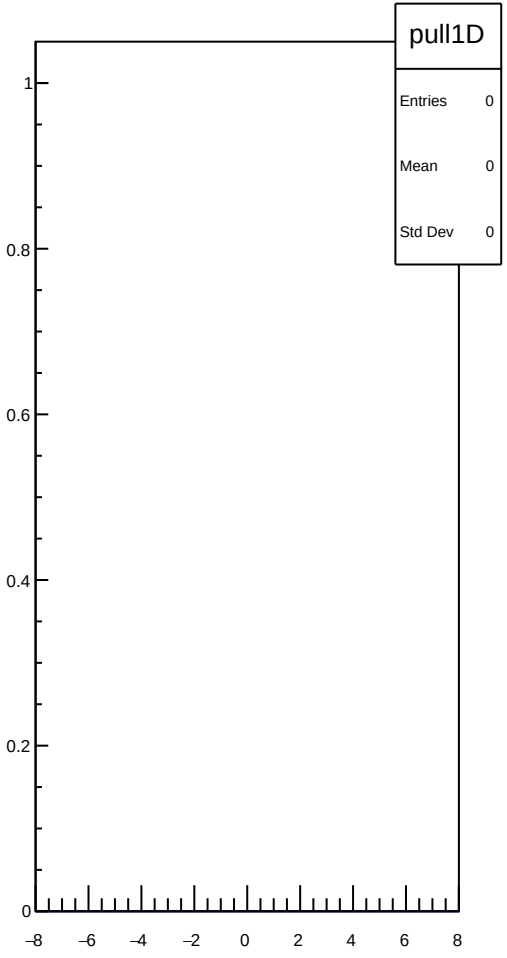

pull1D
Entries 31
Mean 0.05221
Std Dev 1.246
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

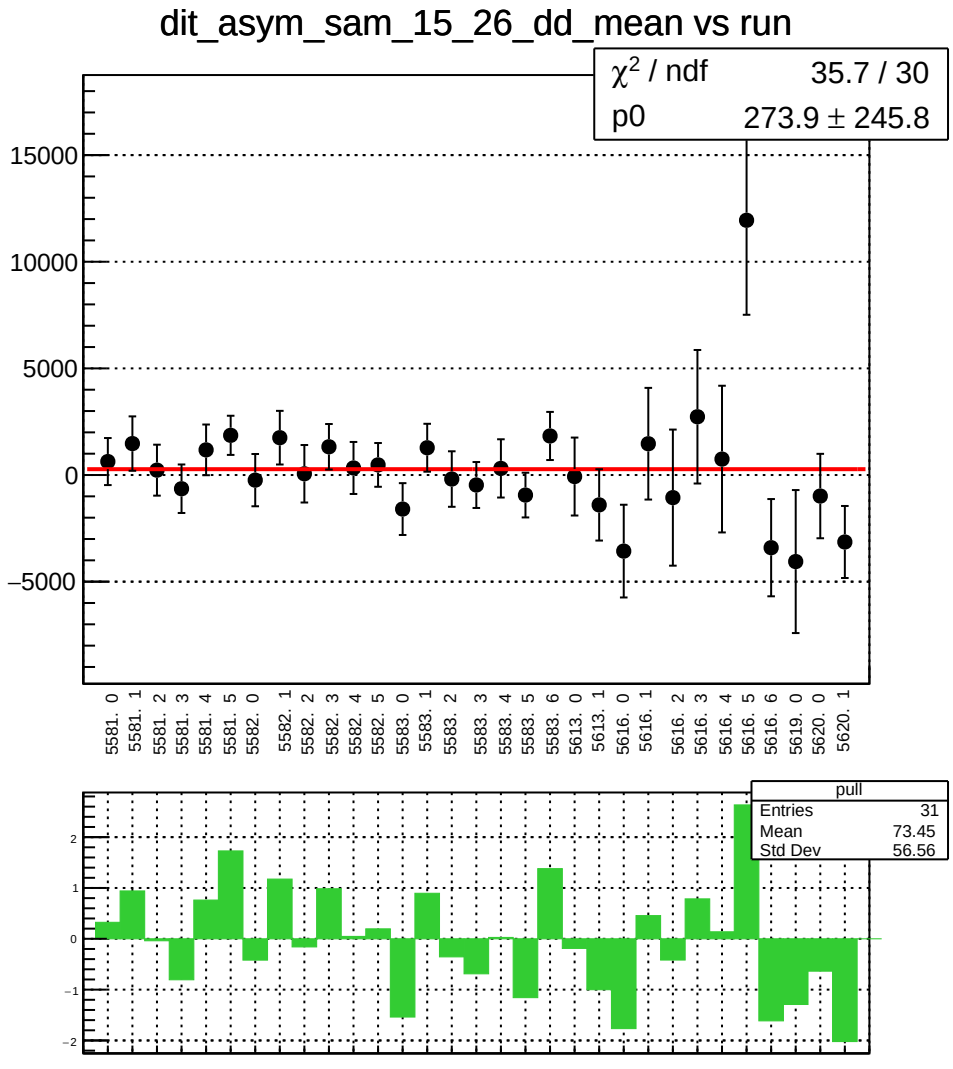

dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 9.566e+04 / 30
p0 61.48 ± 0.08602
300
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

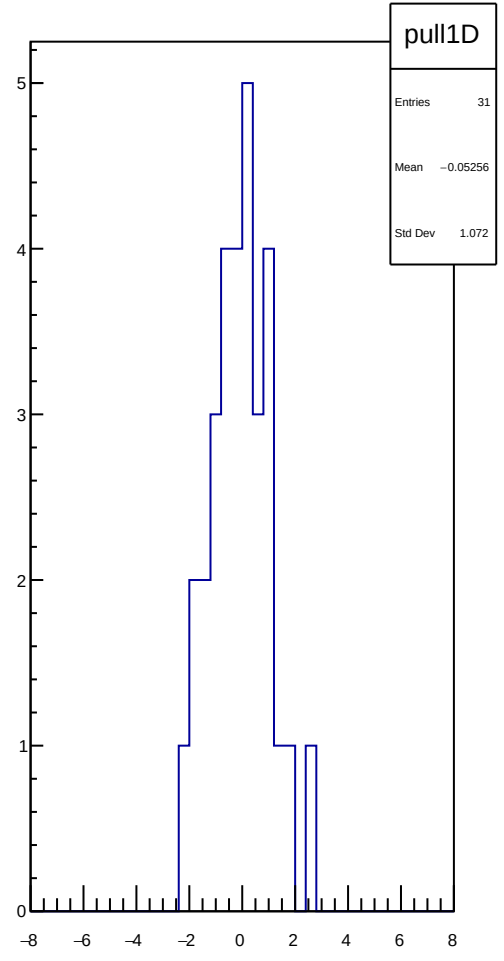

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

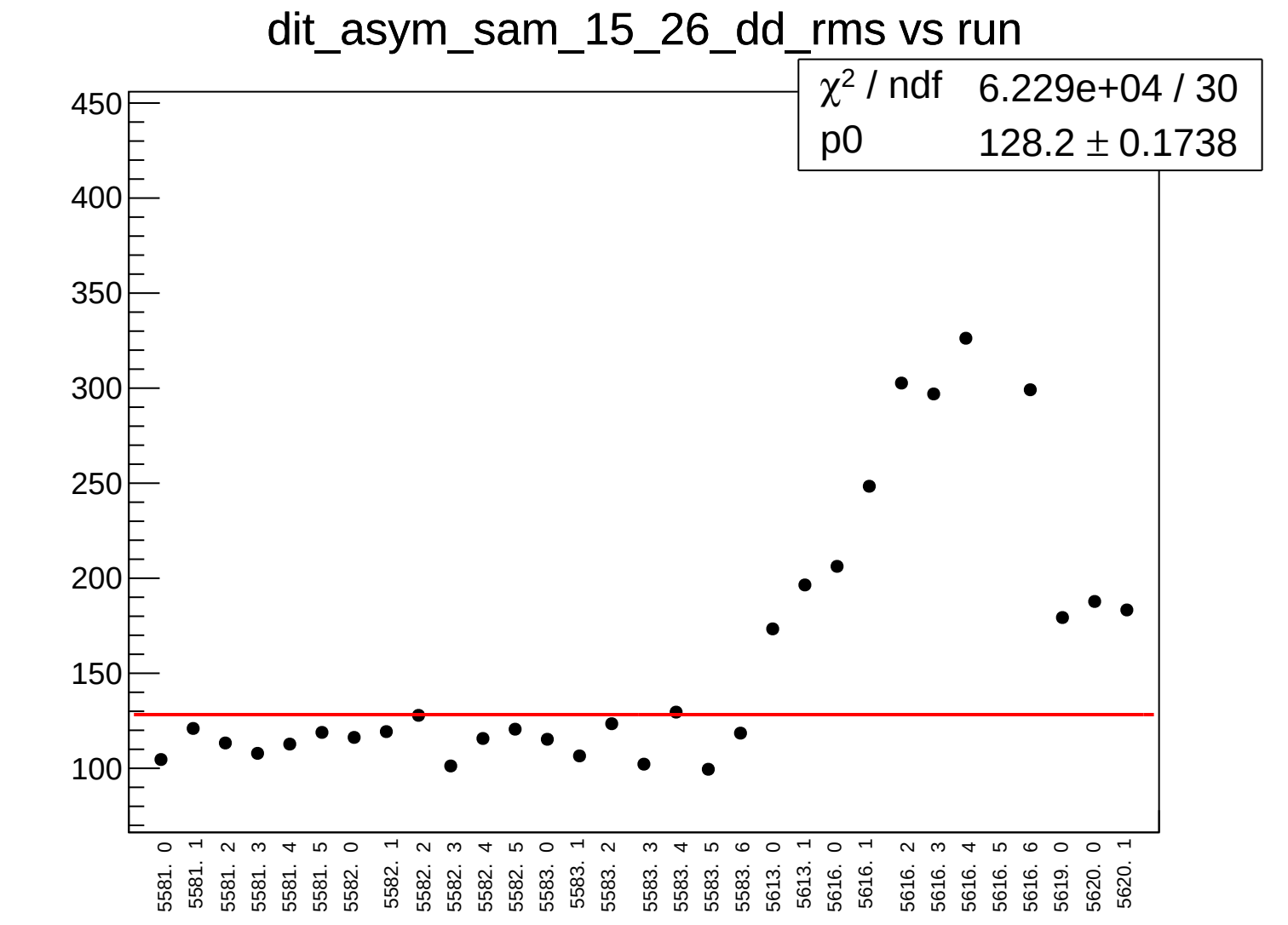

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

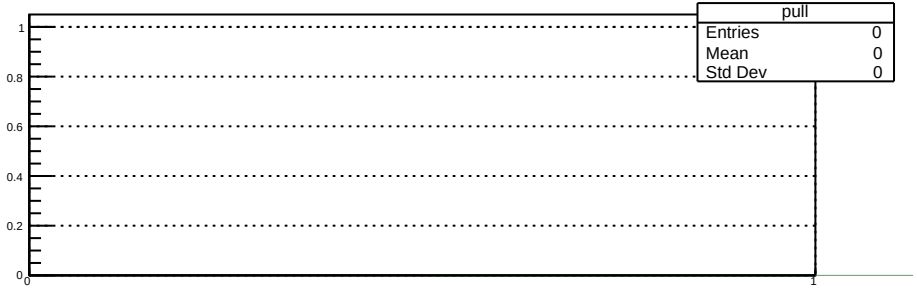

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

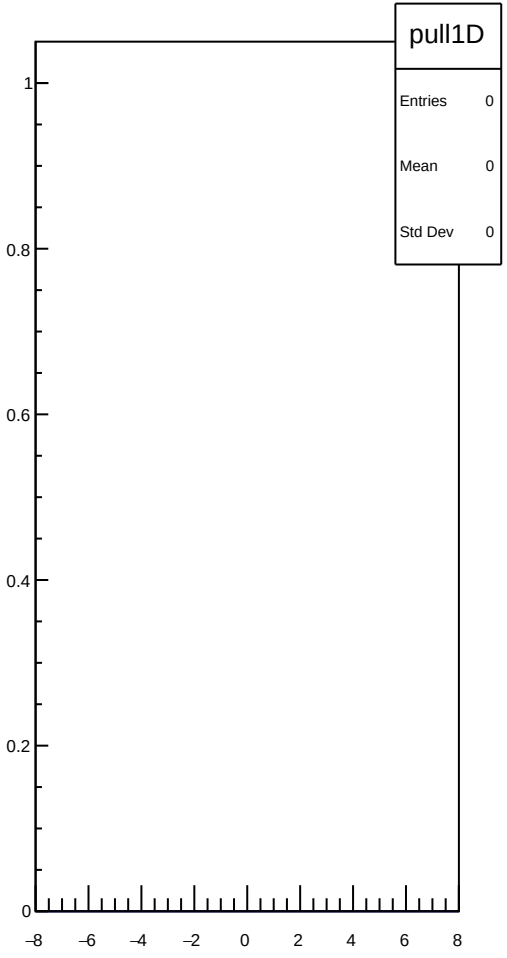

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

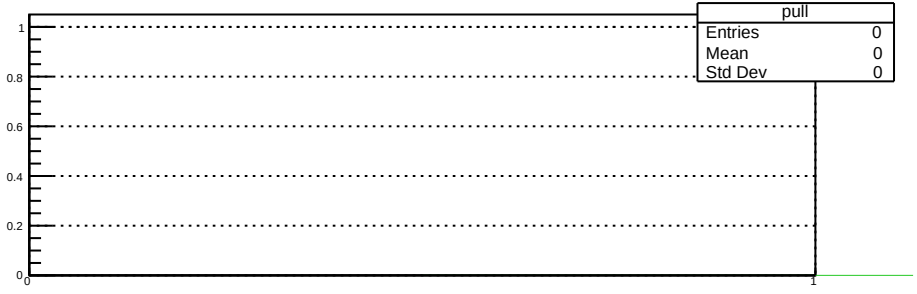

dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 35.7 / 30
p0 273.9 ± 245.8
15000
10000
5000
0
−5000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 73.45
Std Dev 56.56
2
1
0
−1
−2

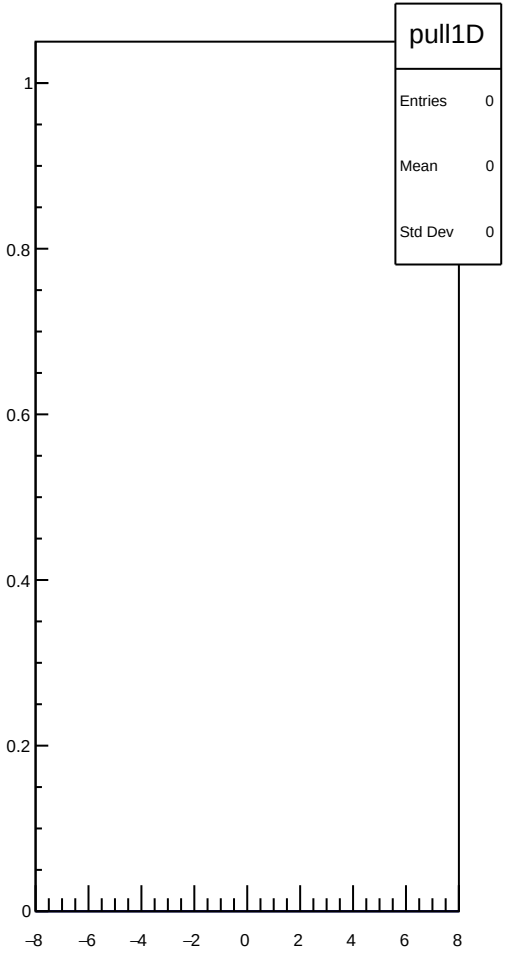

pull1D
Entries 31
Mean −0.05256
Std Dev 1.072
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

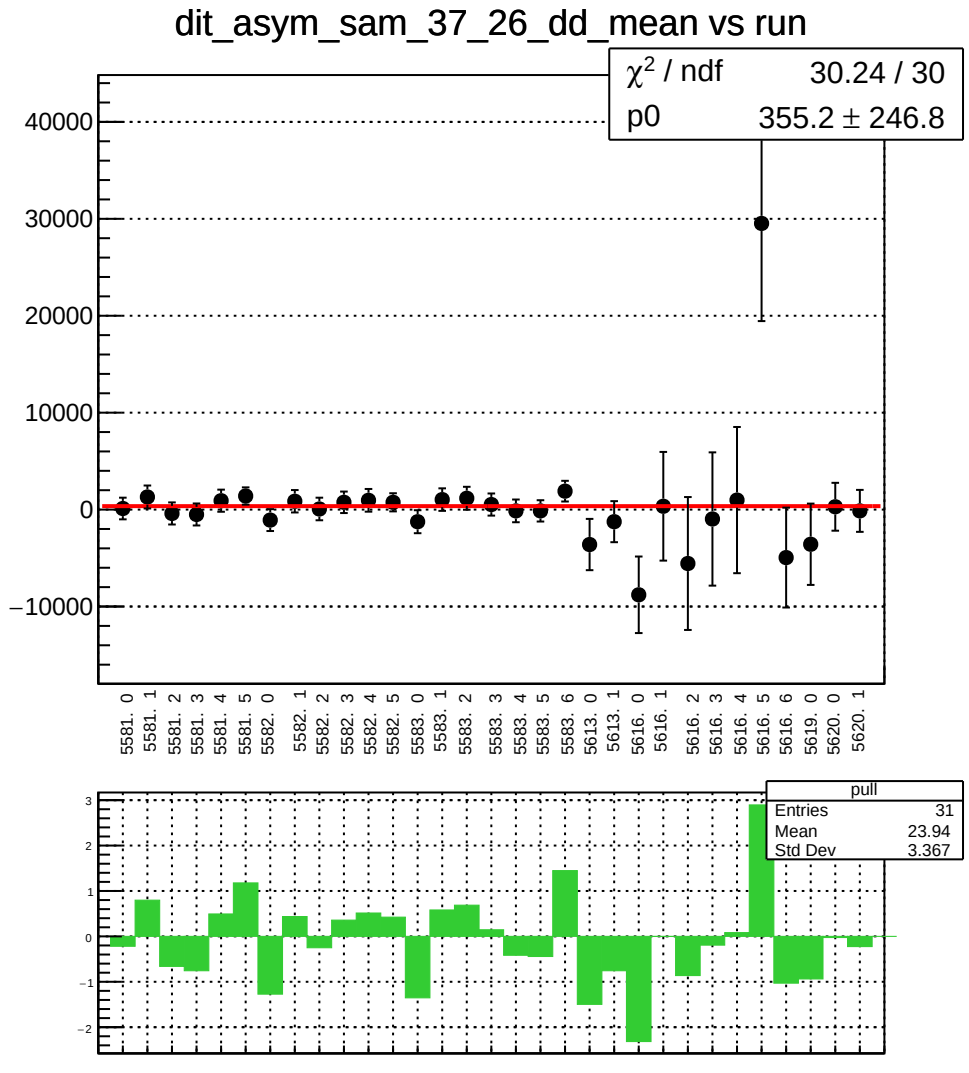

dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 6.229e+04 / 30
p0 128.2 ± 0.1738
450
400
350
300
250
200
150
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

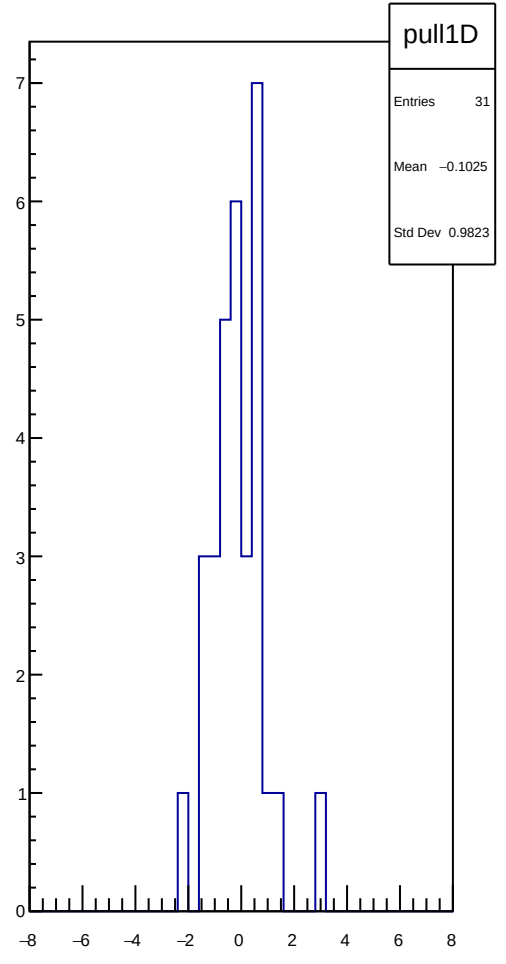

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

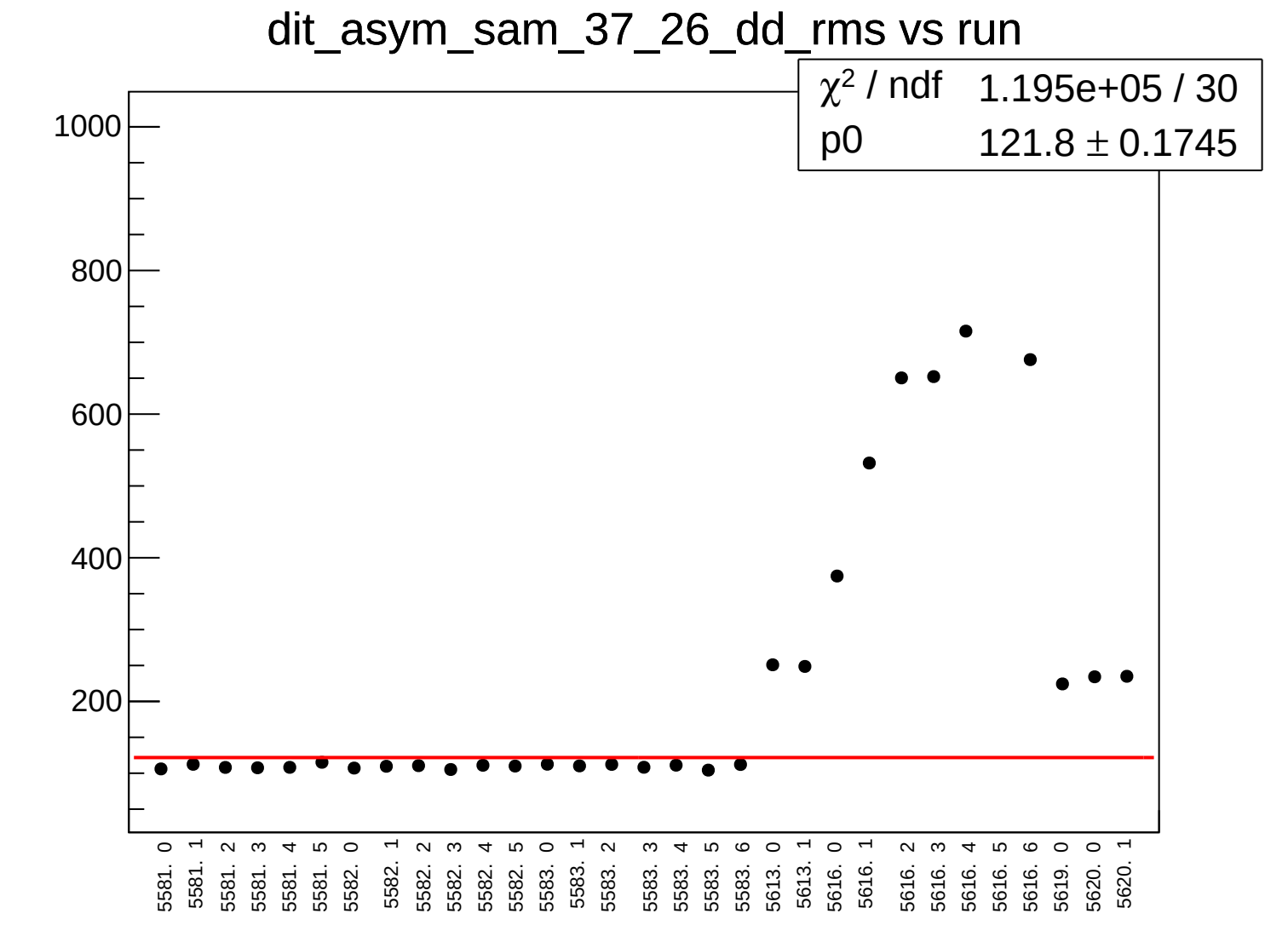

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

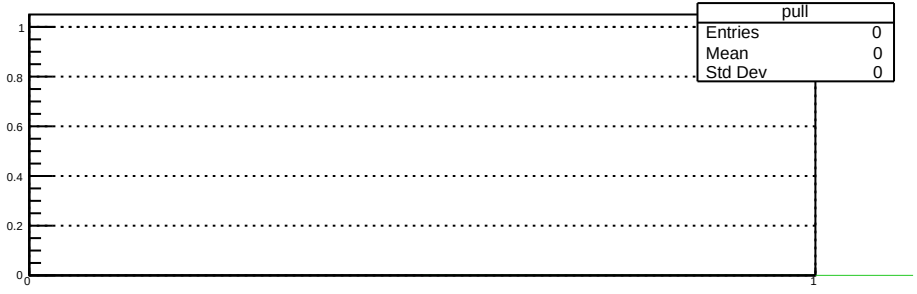

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

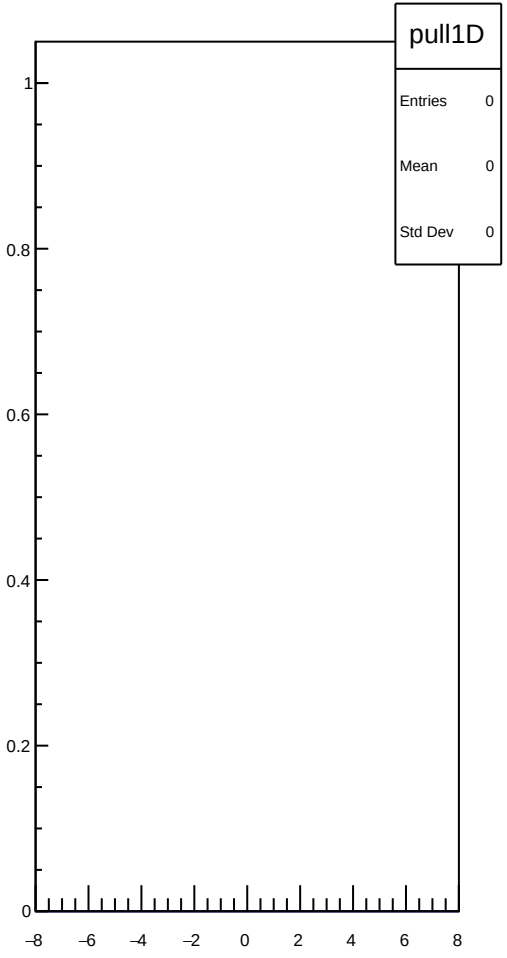

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

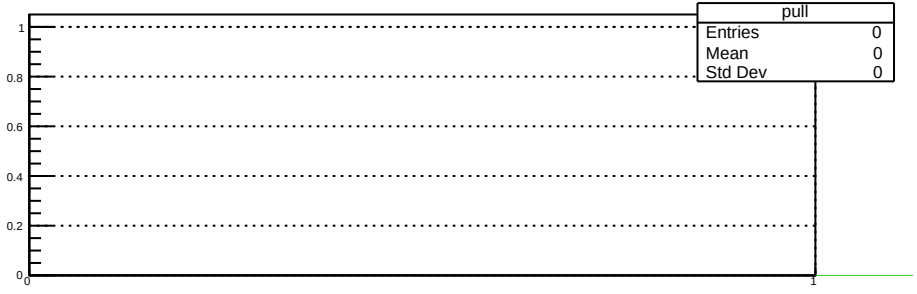

dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 30.24 / 30
p0 355.2 ± 246.8
40000
30000
20000
10000
0
−10000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 23.94
Std Dev 3.367
3
2
1
0
−1
−2

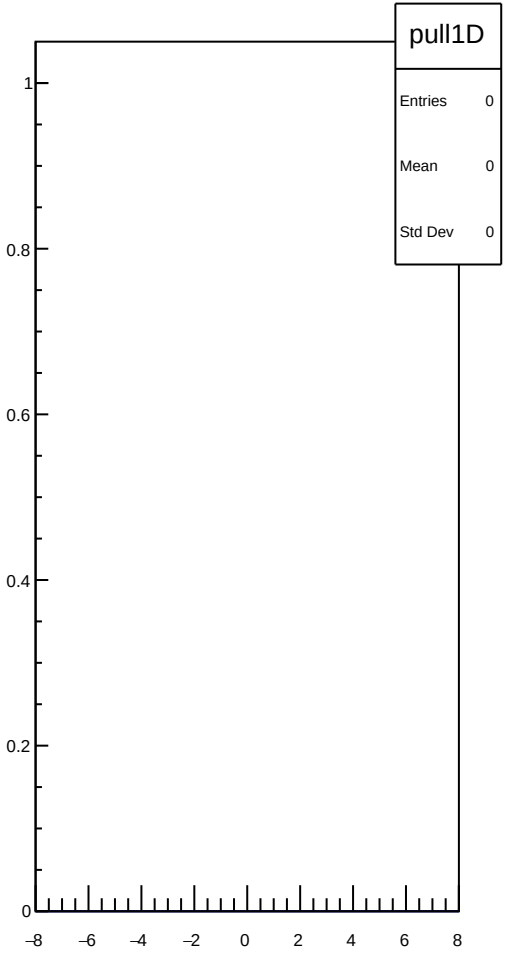

pull1D
Entries 31
Mean −0.1025
Std Dev 0.9823
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

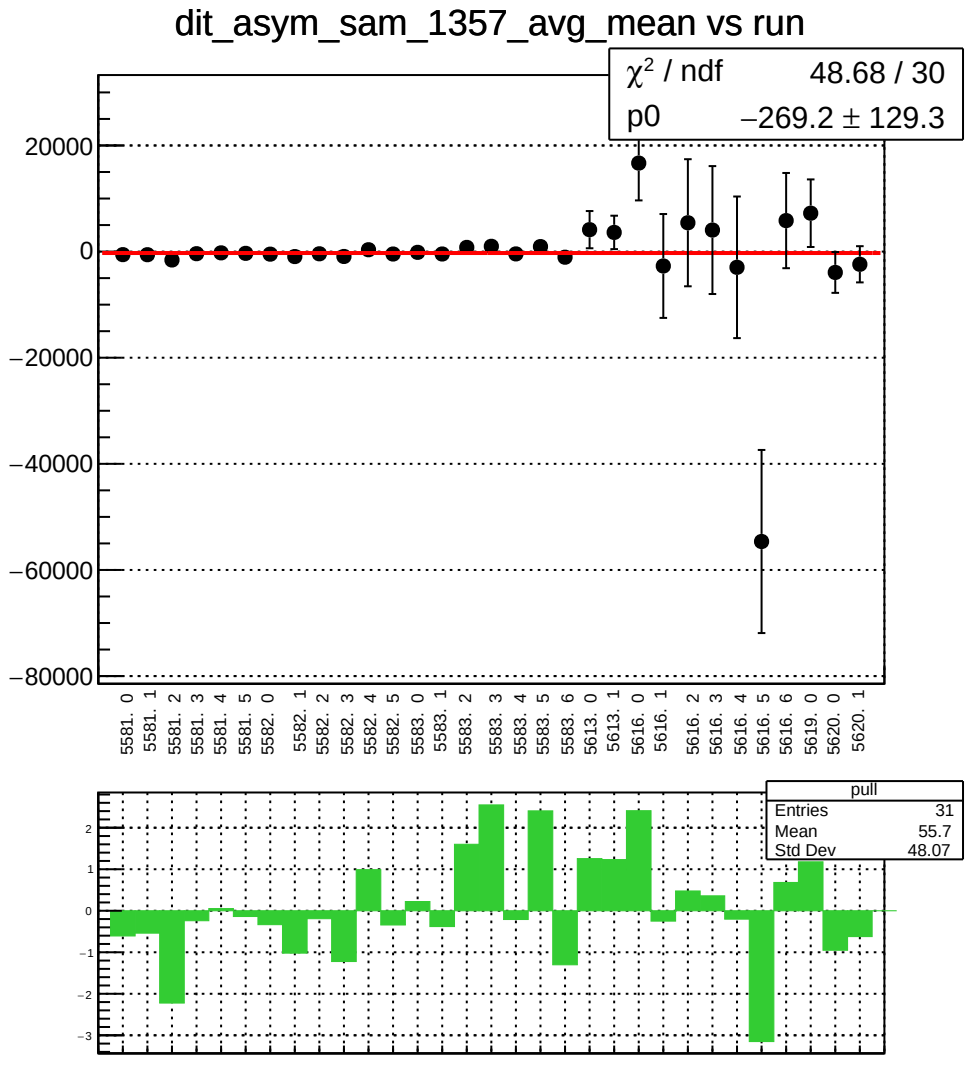

dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 1.195e+05 / 30
p0 121.8 ± 0.1745
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

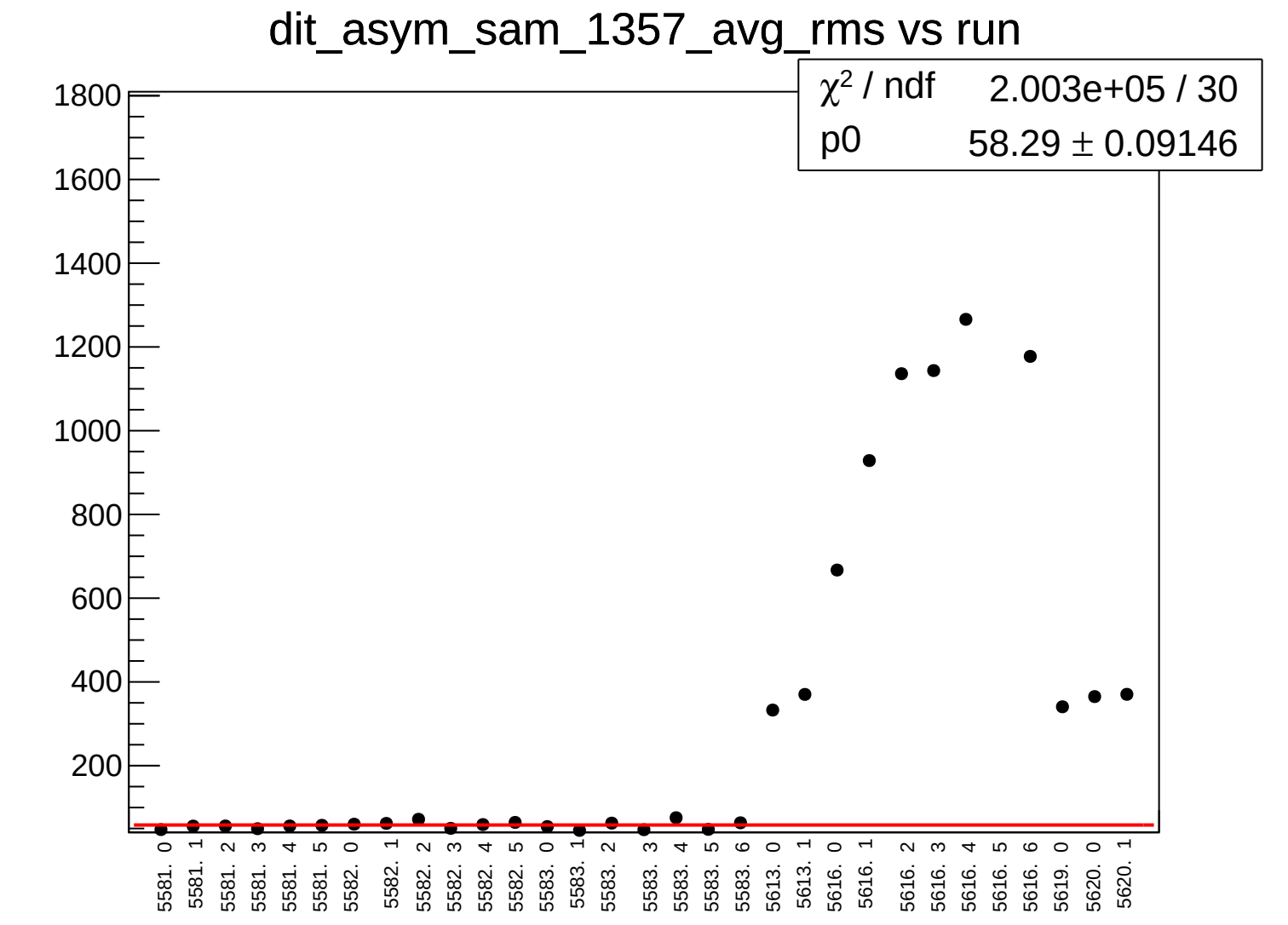

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

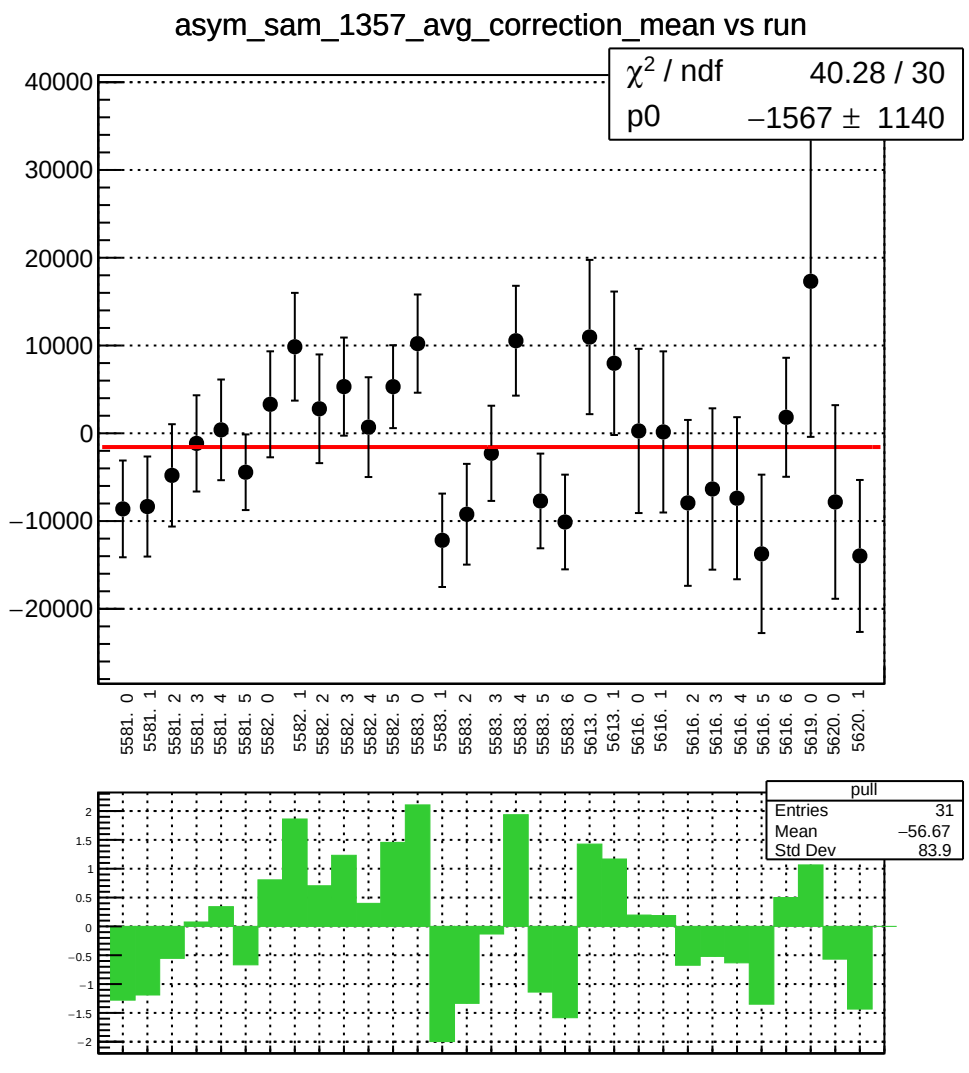

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

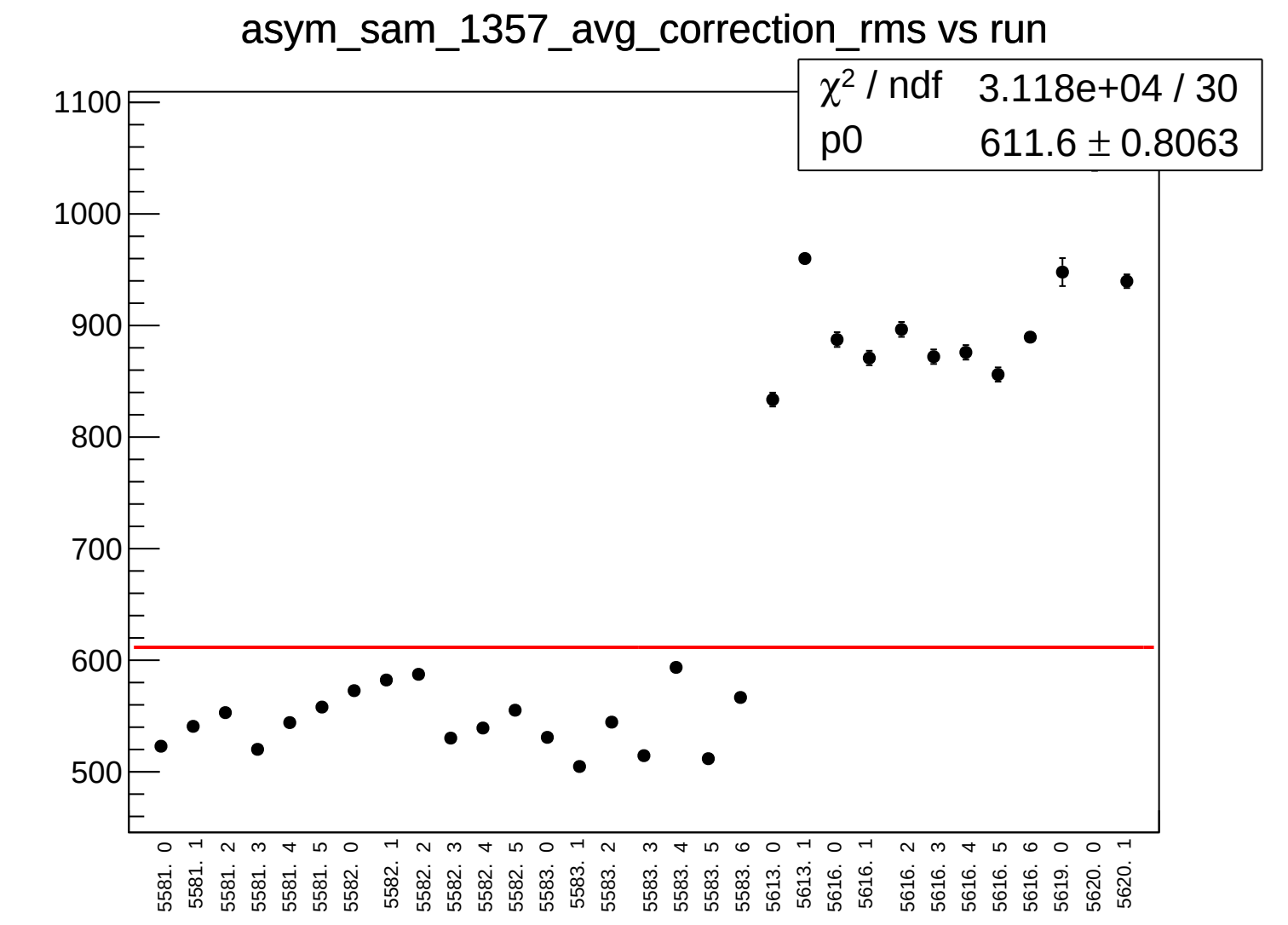

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

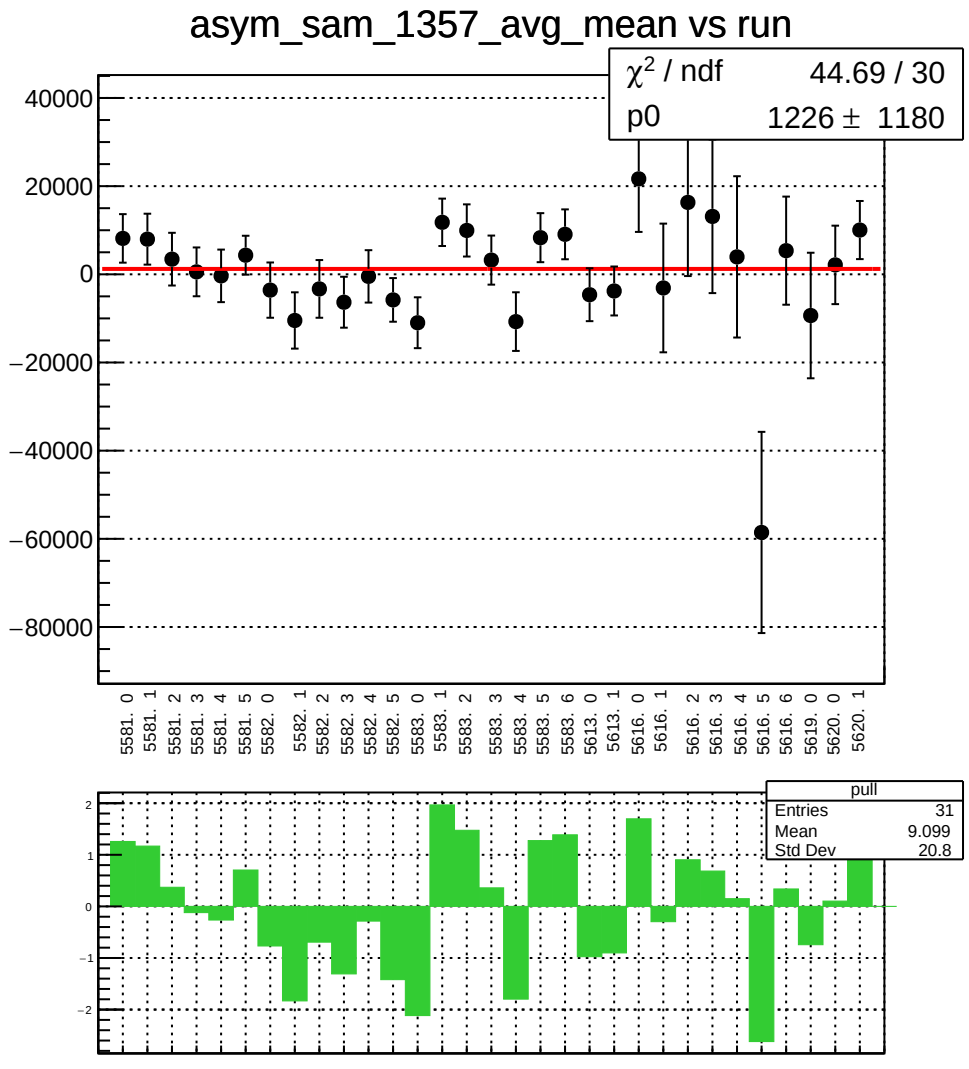

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

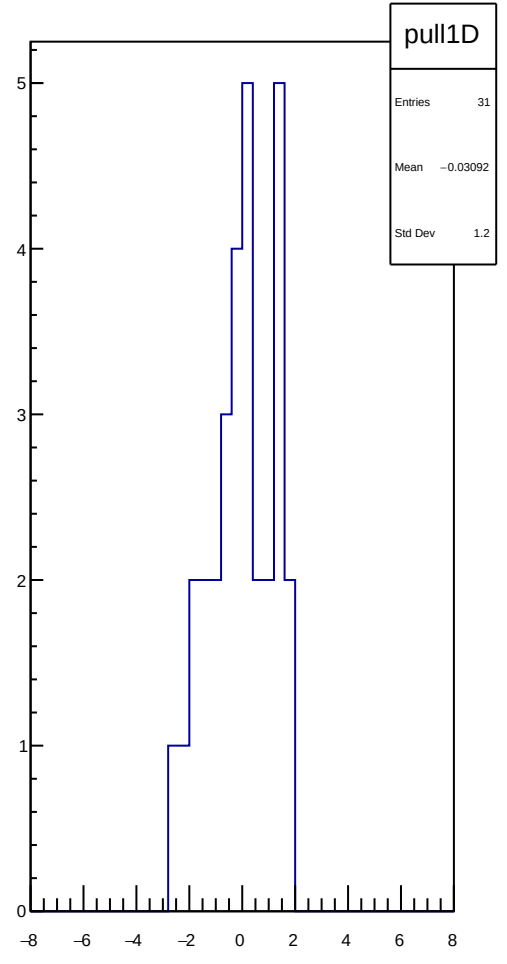

dit_asym_sam_1357_avg_mean vs run
χ² / ndf 48.68 / 30
p0 −269.2 ± 129.3
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 55.7
Std Dev 48.07
2
1
0
−1
−2
−3
pull1D
Entries 31
Mean 0.04799
Std Dev 1.252
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

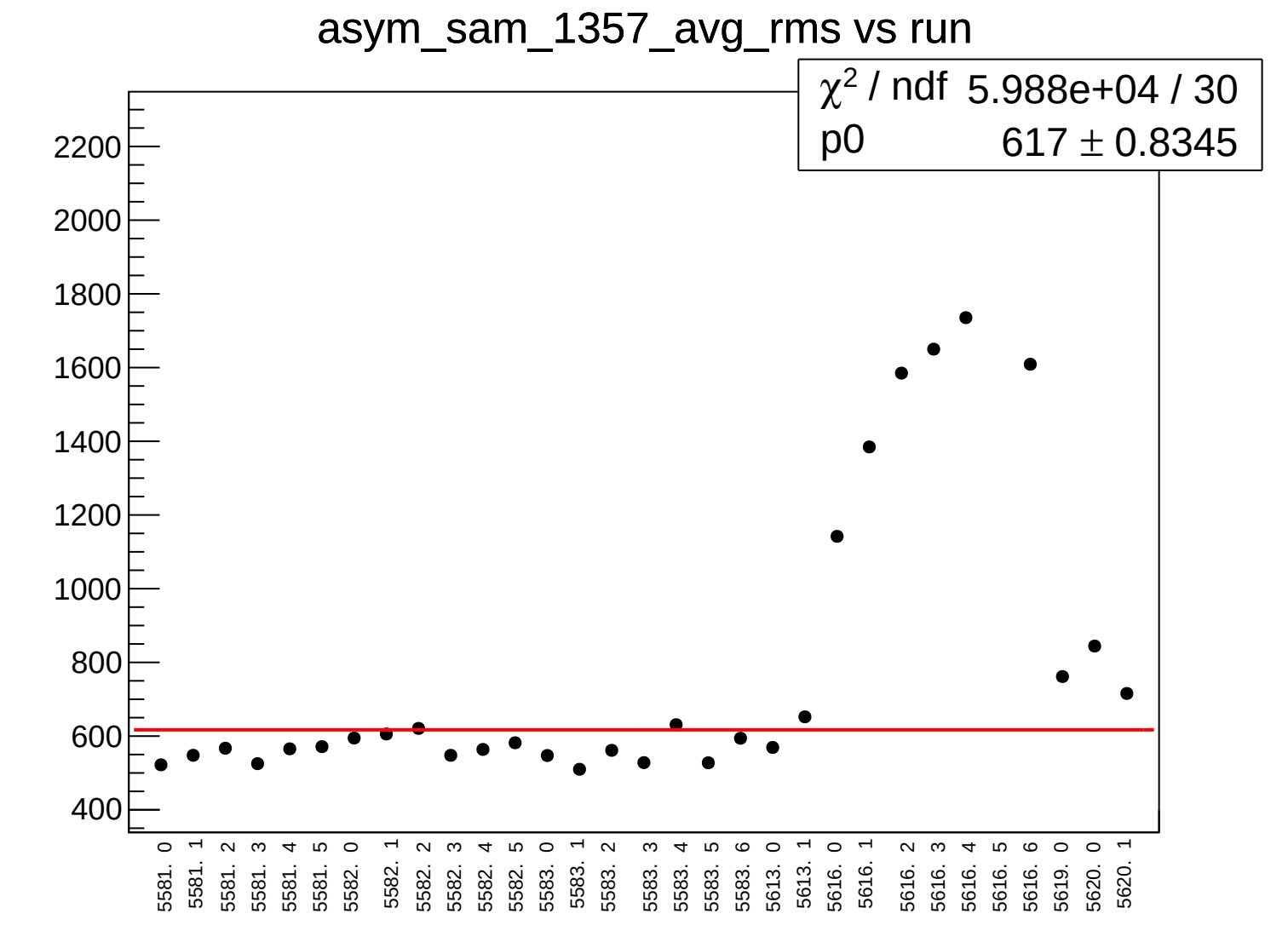

dit_asym_sam_1357_avg_rms vs run
χ² / ndf 2.003e+05 / 30
p0 58.29 ± 0.09146
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

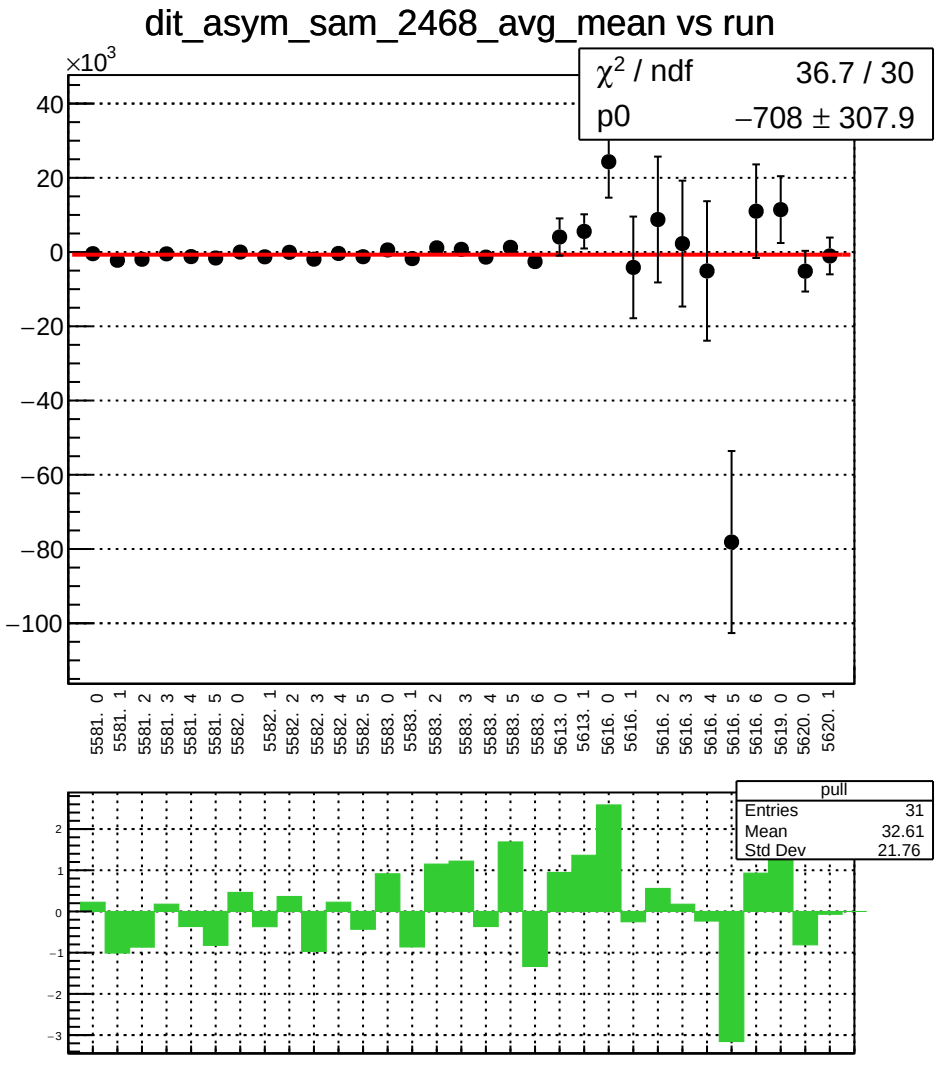

asym_sam_1357_avg_correction_mean vs run
χ² / ndf 40.28 / 30
p0 −1567 ± 1140
40000
30000
20000
10000
0
−10000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −56.67
Std Dev 83.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean 0.01347
Std Dev 1.14
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

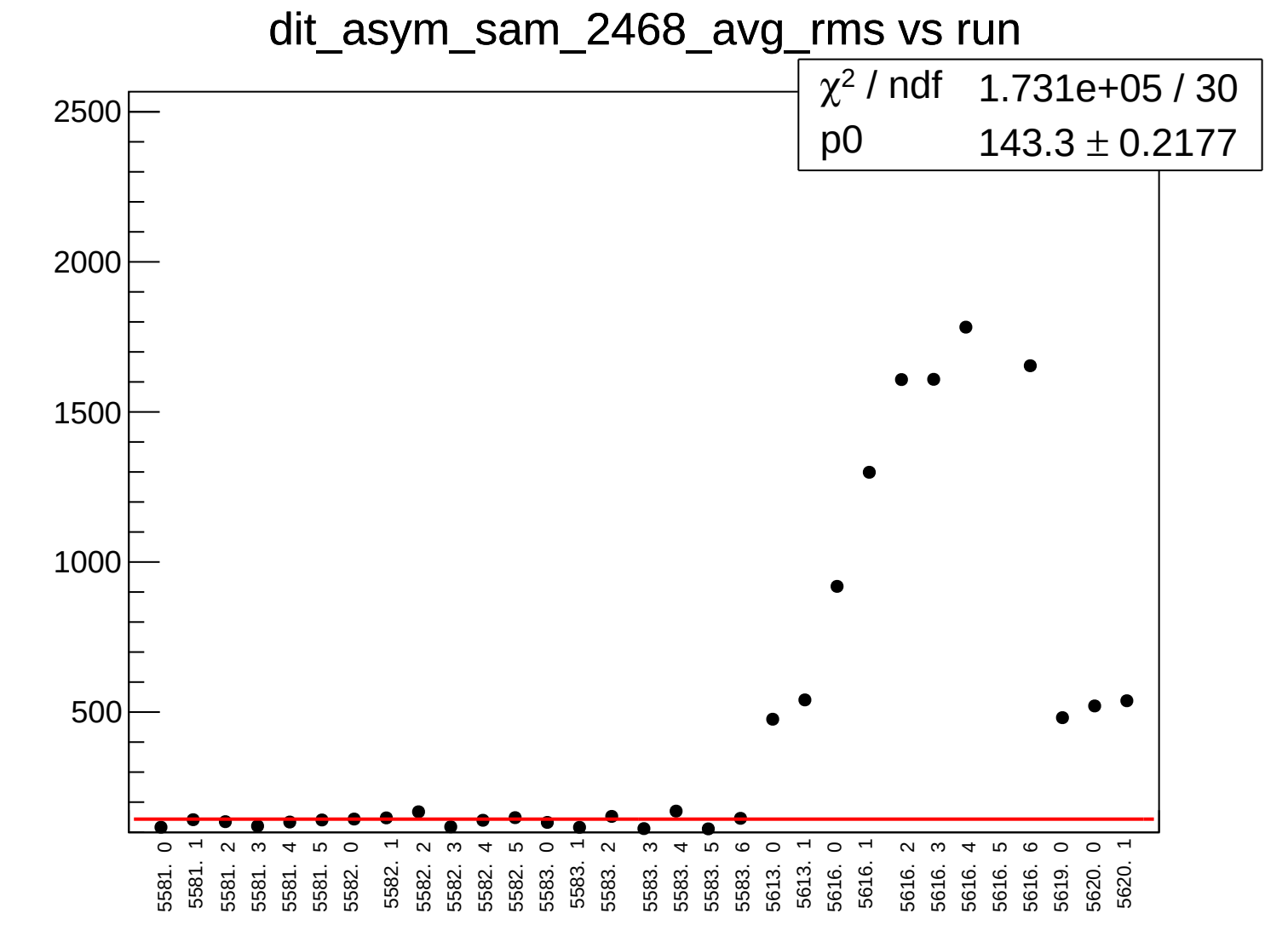

asym_sam_1357_avg_correction_rms vs run
χ² / ndf 3.118e+04 / 30
p0 611.6 ± 0.8063
1100
1000
900
800
700
600
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

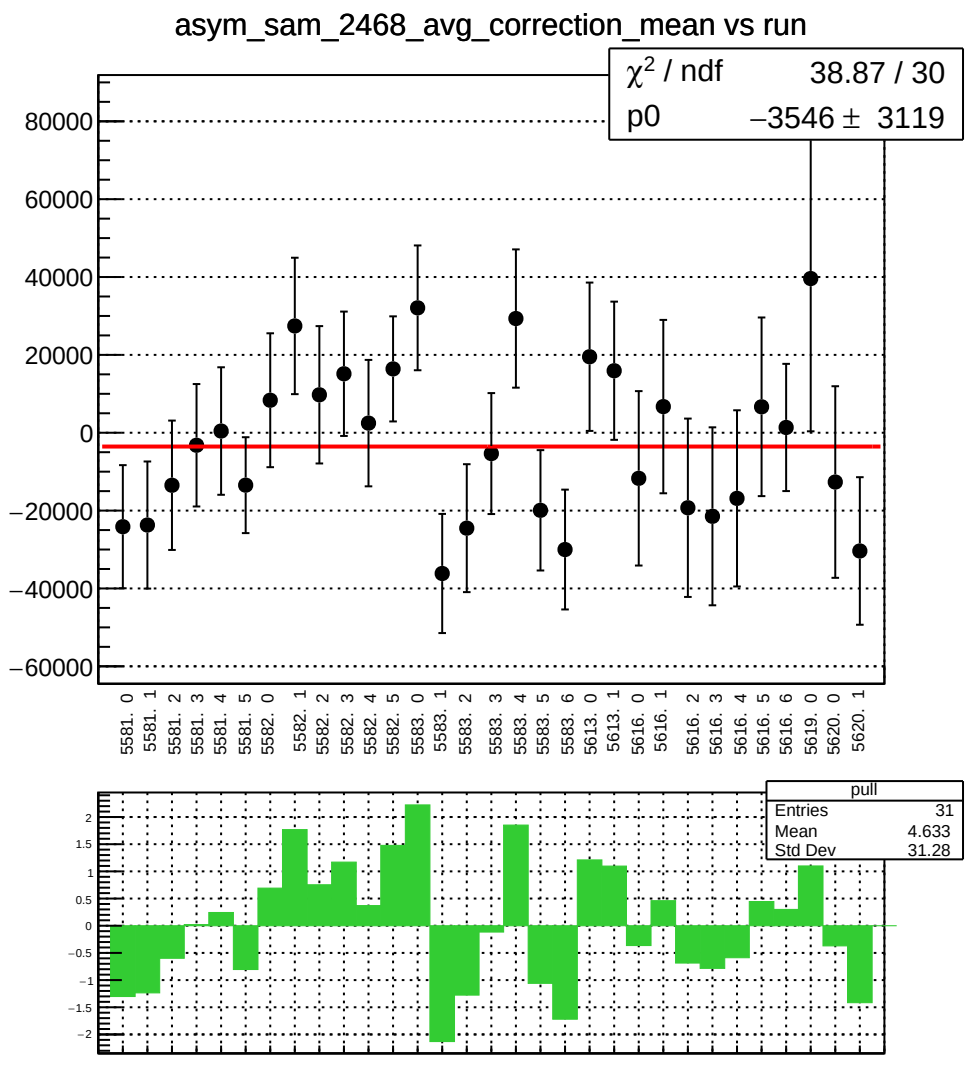

asym_sam_1357_avg_mean vs run
χ² / ndf 44.69 / 30
p0 1226 ± 1180
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 9.099
Std Dev 20.8
2
1
0
−1
−2

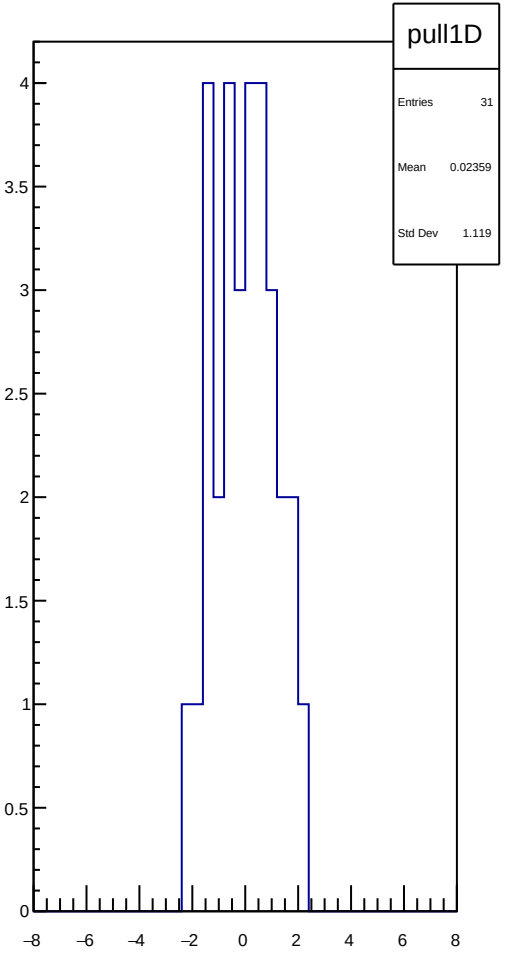

pull1D
Entries 31
Mean −0.03092
Std Dev 1.2
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

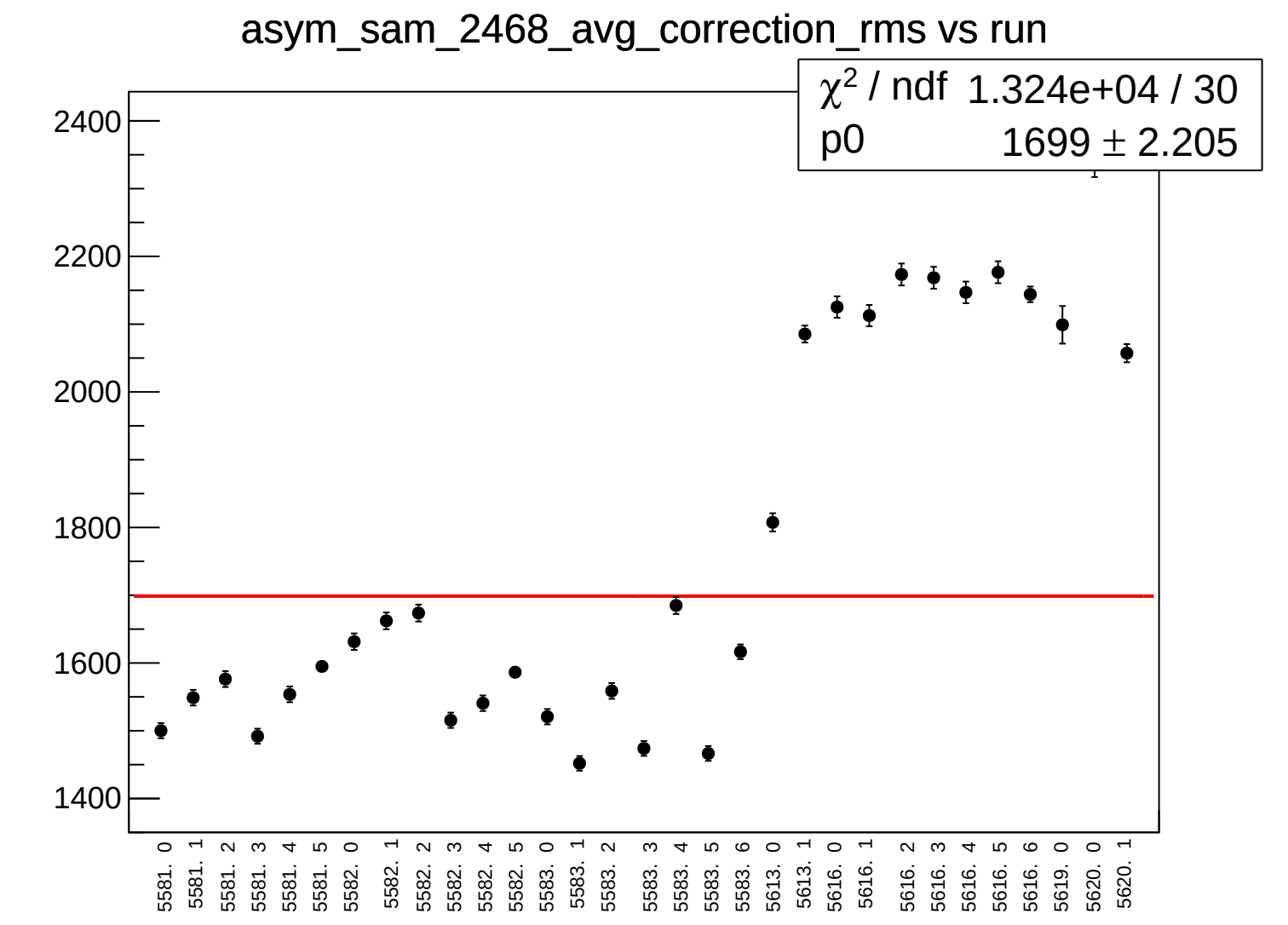

asym_sam_1357_avg_rms vs run
χ² / ndf 5.988e+04 / 30
p0 617 ± 0.8345
2200
2000
1800
1600
1400
1200
1000
800
600
400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

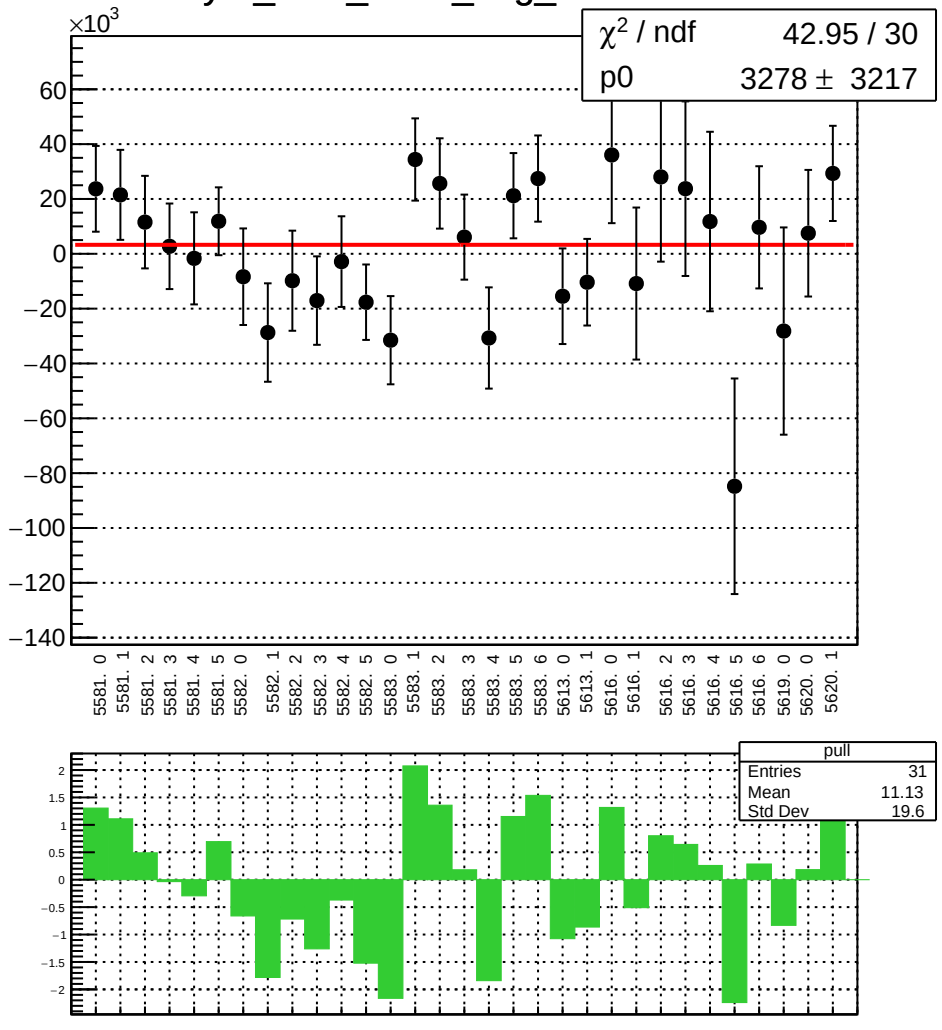

dit_asym_sam_2468_avg_mean vs run
×10^3
χ² / ndf 36.7 / 30
p0 −708 ± 307.9
40
20
0
−20
−40
−60
−80
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 32.61
Std Dev 21.76
2
1
0
−1
−2
−3
pull1D
Entries 31
Mean 0.07797
Std Dev 1.085
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

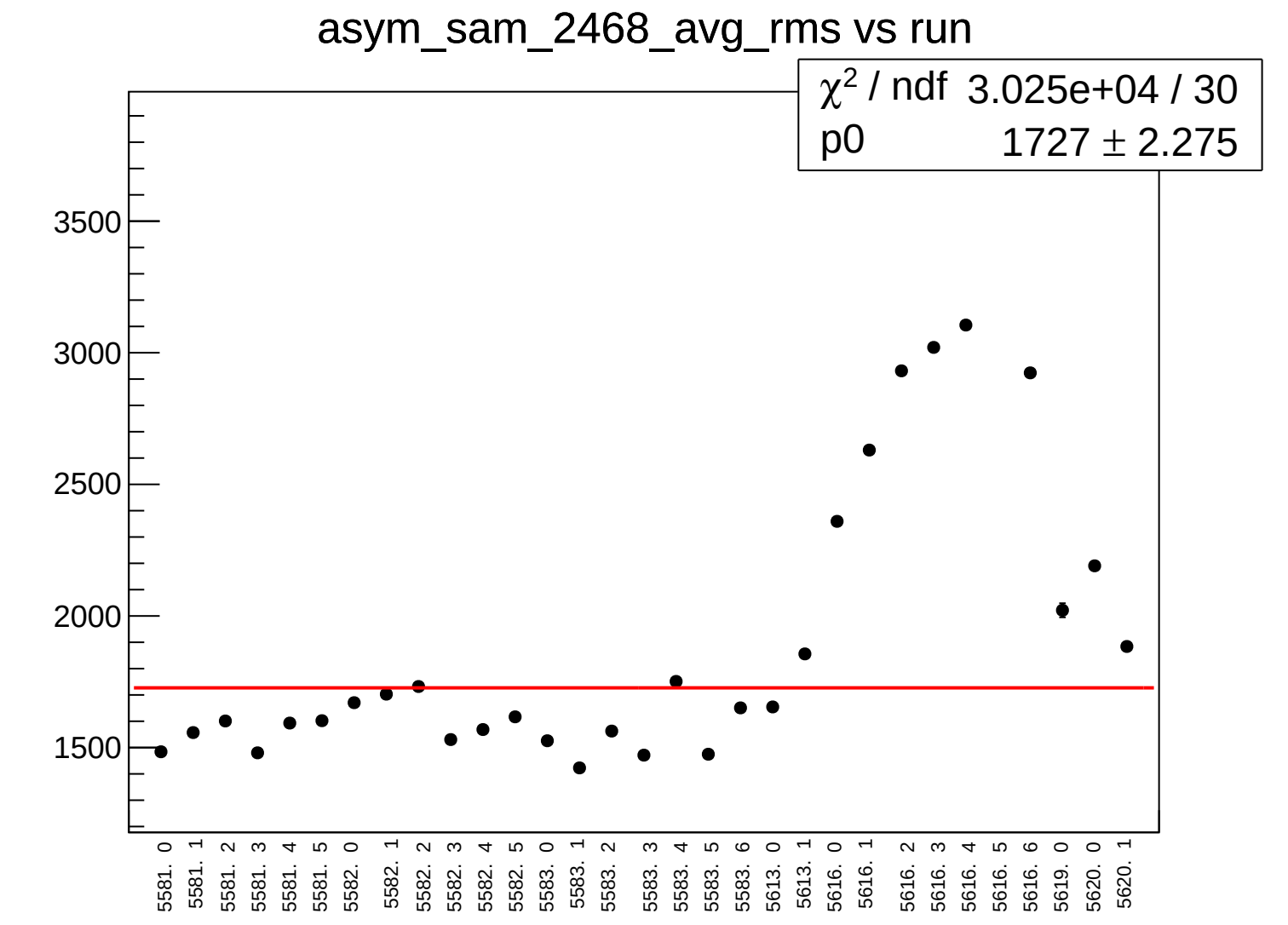

dit_asym_sam_2468_avg_rms vs run
χ² / ndf 1.731e+05 / 30
p0 143.3 ± 0.2177
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

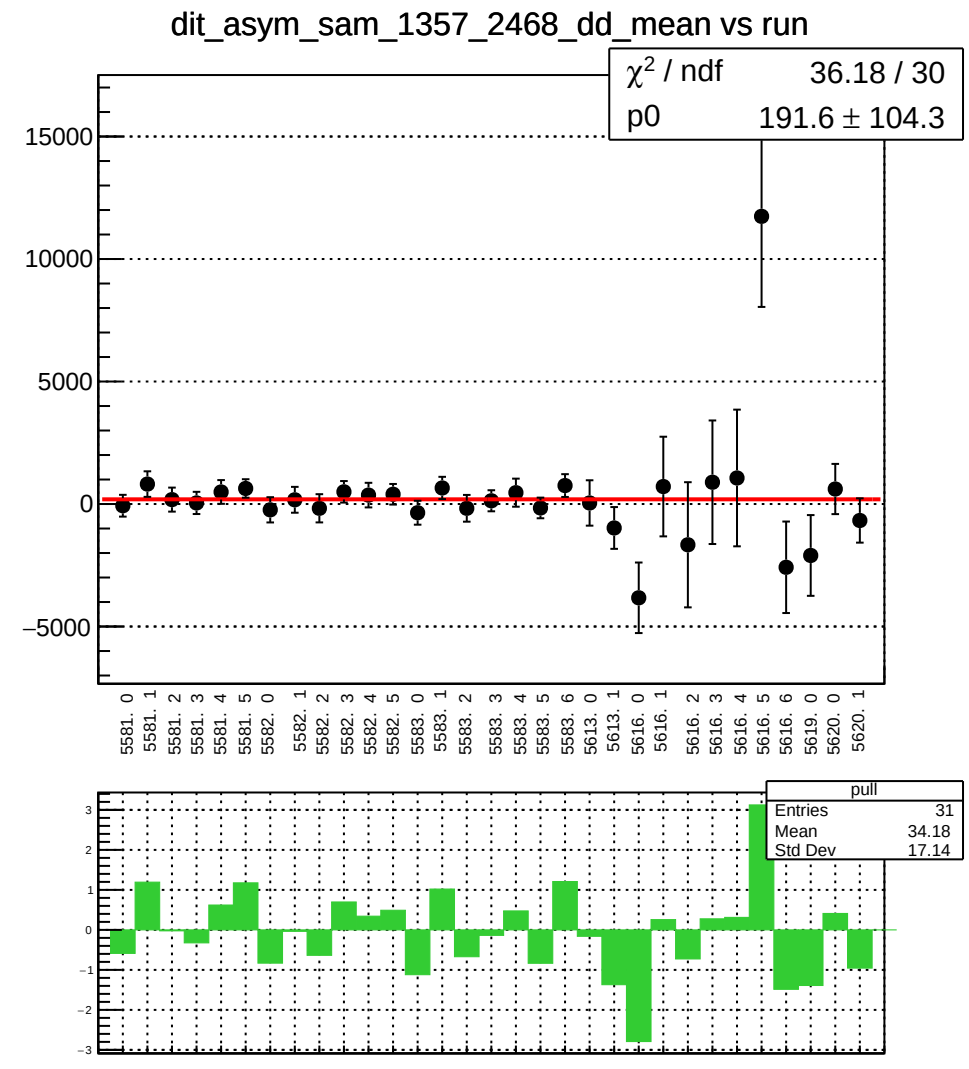

asym_sam_2468_avg_correction_mean vs run
χ² / ndf 38.87 / 30
p0 −3546 ± 3119
80000
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 4.633
Std Dev 31.28
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

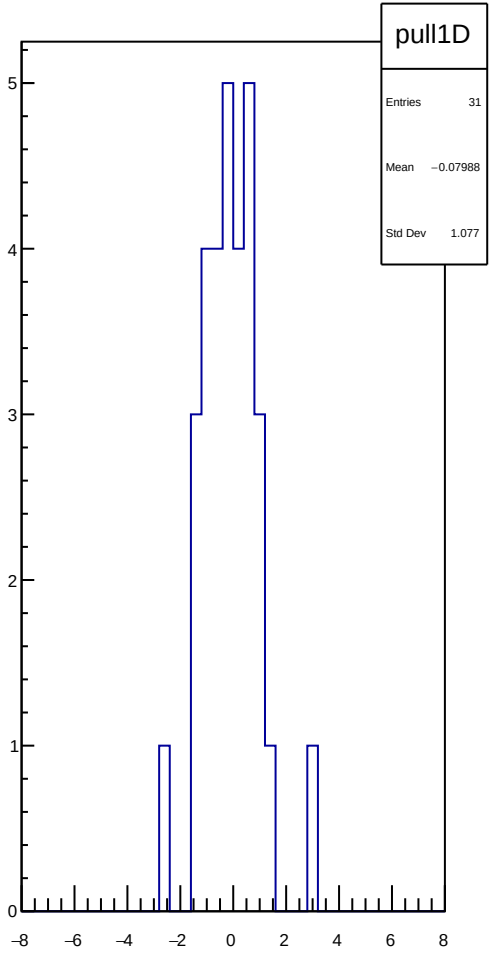

pull1D
Entries 31
Mean 0.02359
Std Dev 1.119
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

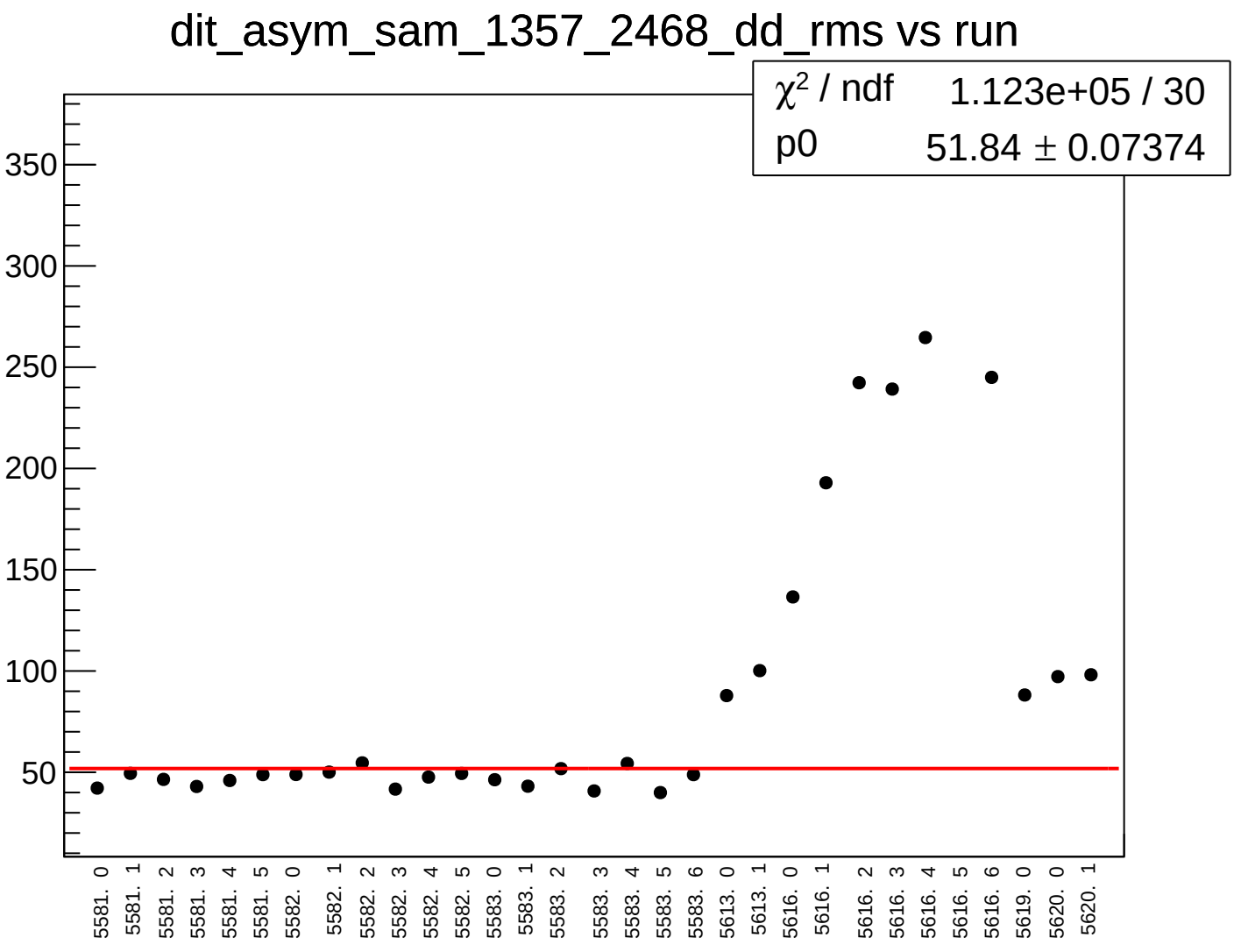

asym_sam_2468_avg_correction_rms vs run
χ² / ndf 1.324e+04 / 30
p0 1699 ± 2.205
2400
2200
2000
1800
1600
1400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

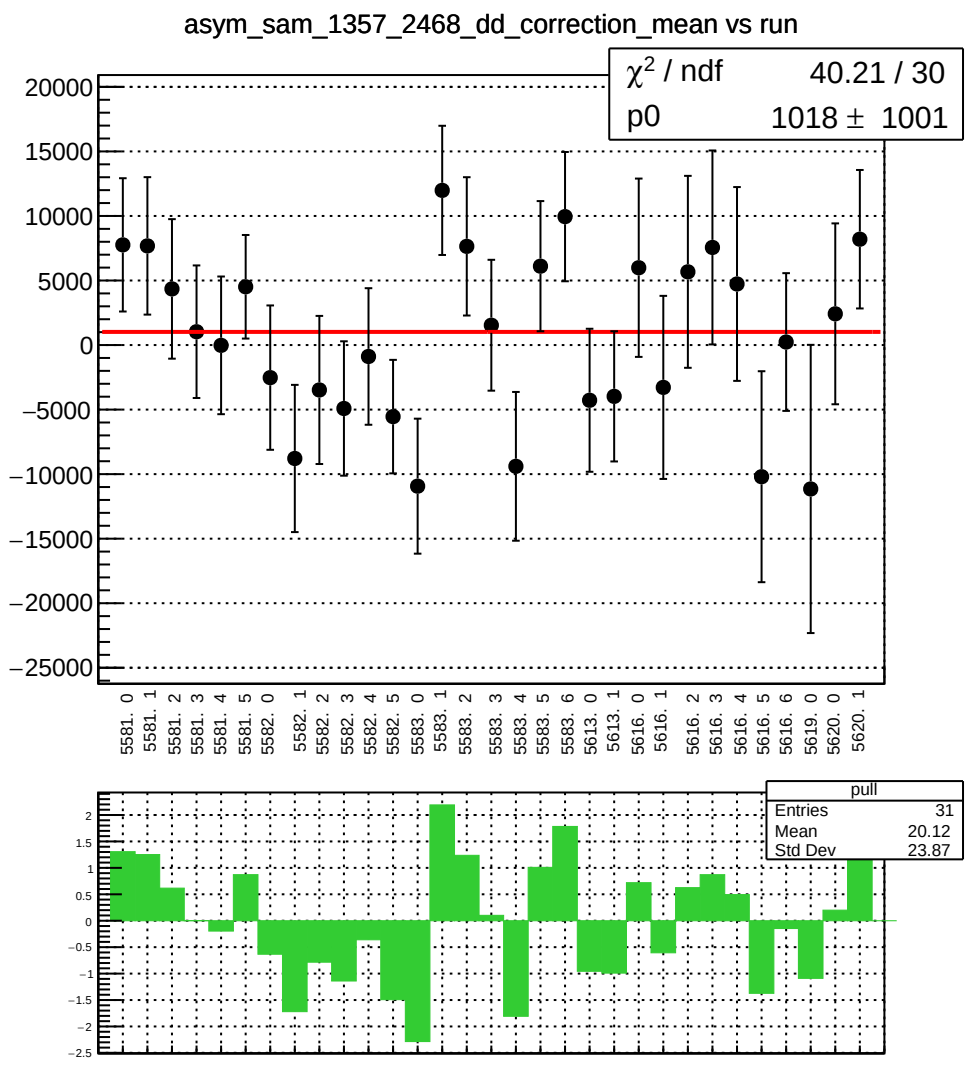

asym_sam_2468_avg_mean vs run
×10^3
χ^2 / ndf 42.95 / 30
p0 3278 ± 3217
60
40
20
0
−20
−40
−60
−80
−100
−120
−140
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 11.13
Std Dev 19.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.04102
Std Dev 1.176
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

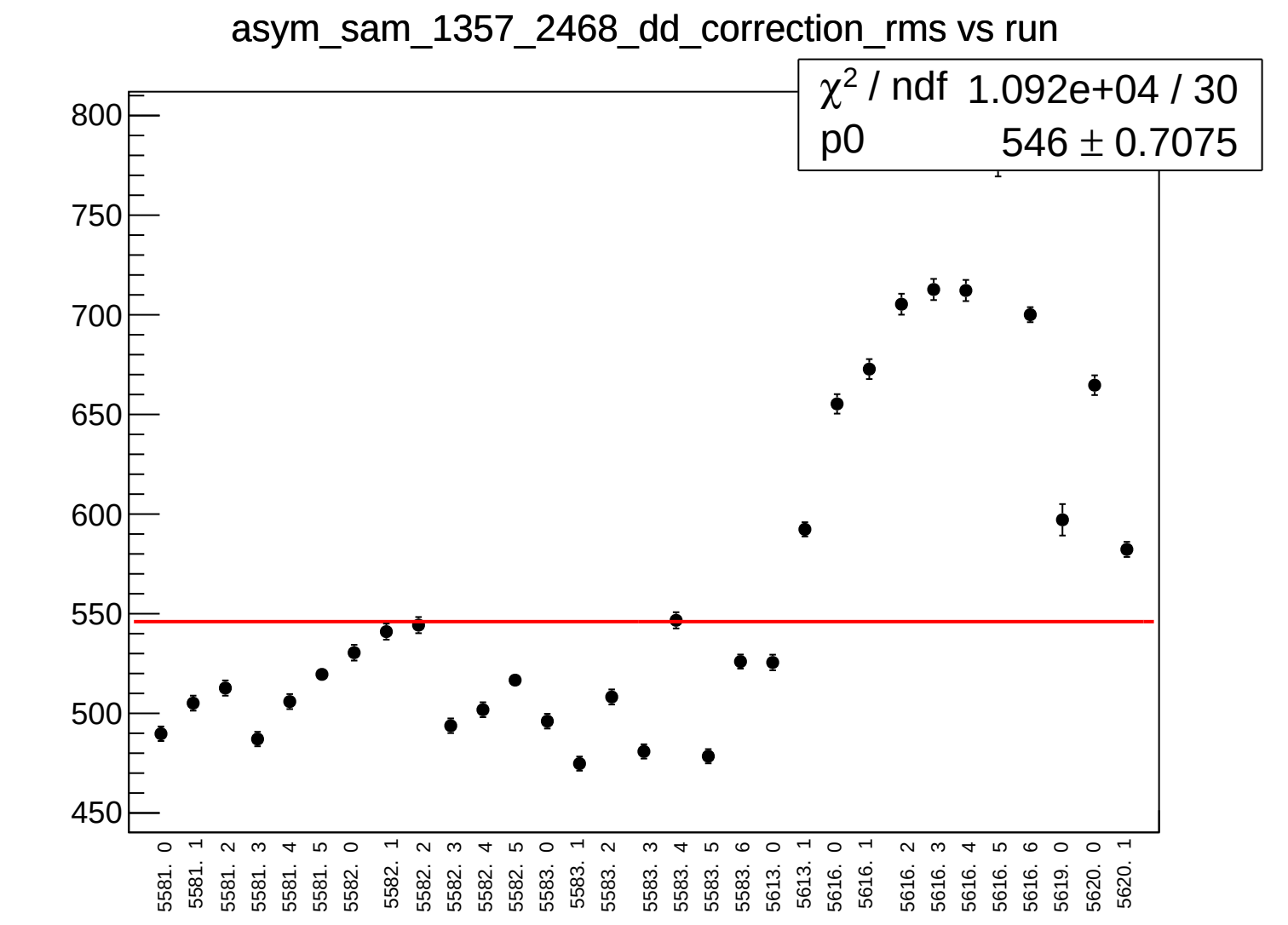

asym_sam_2468_avg_rms vs run
χ² / ndf 3.025e+04 / 30
p0 1727 ± 2.275
3500
3000
2500
2000
1500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

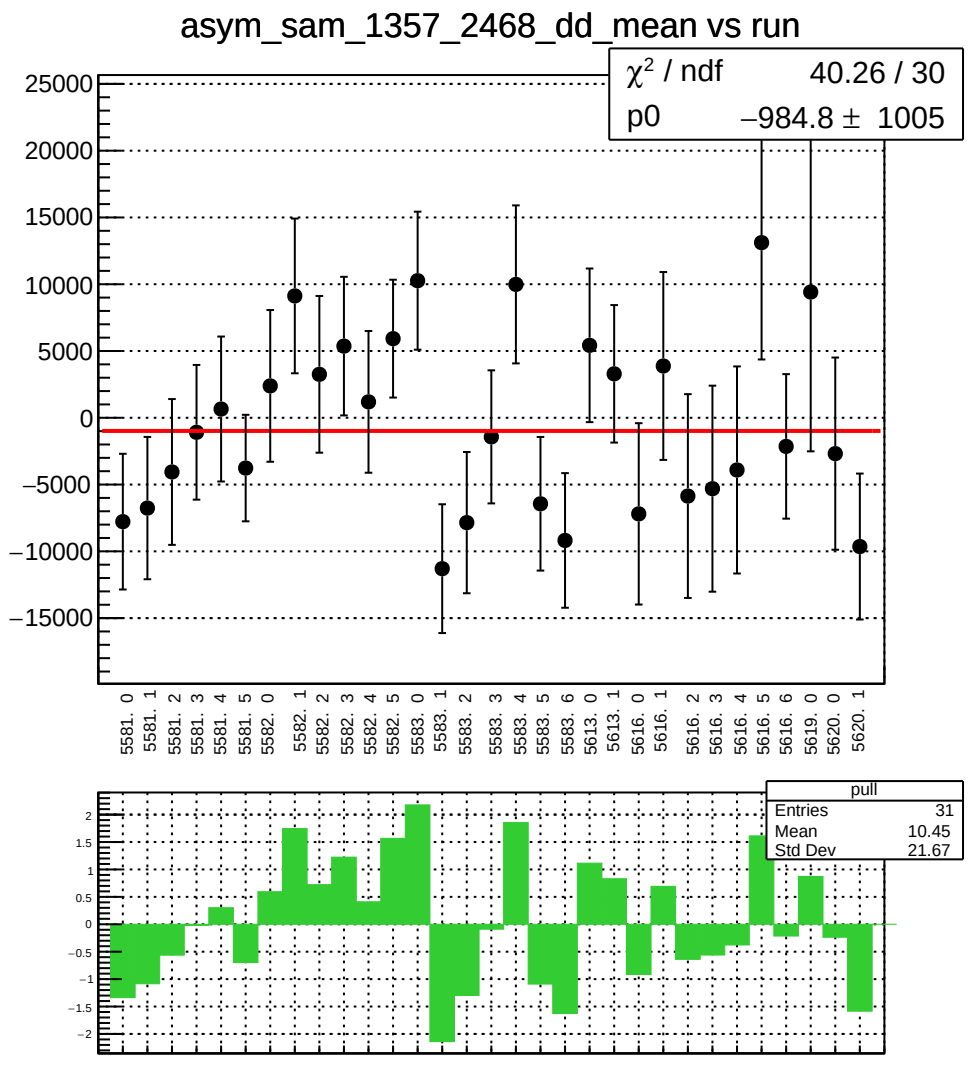

dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 36.18 / 30
p0 191.6 ± 104.3
15000
10000
5000
0
−5000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 34.18
Std Dev 17.14
3
2
1
0
−1
−2
−3

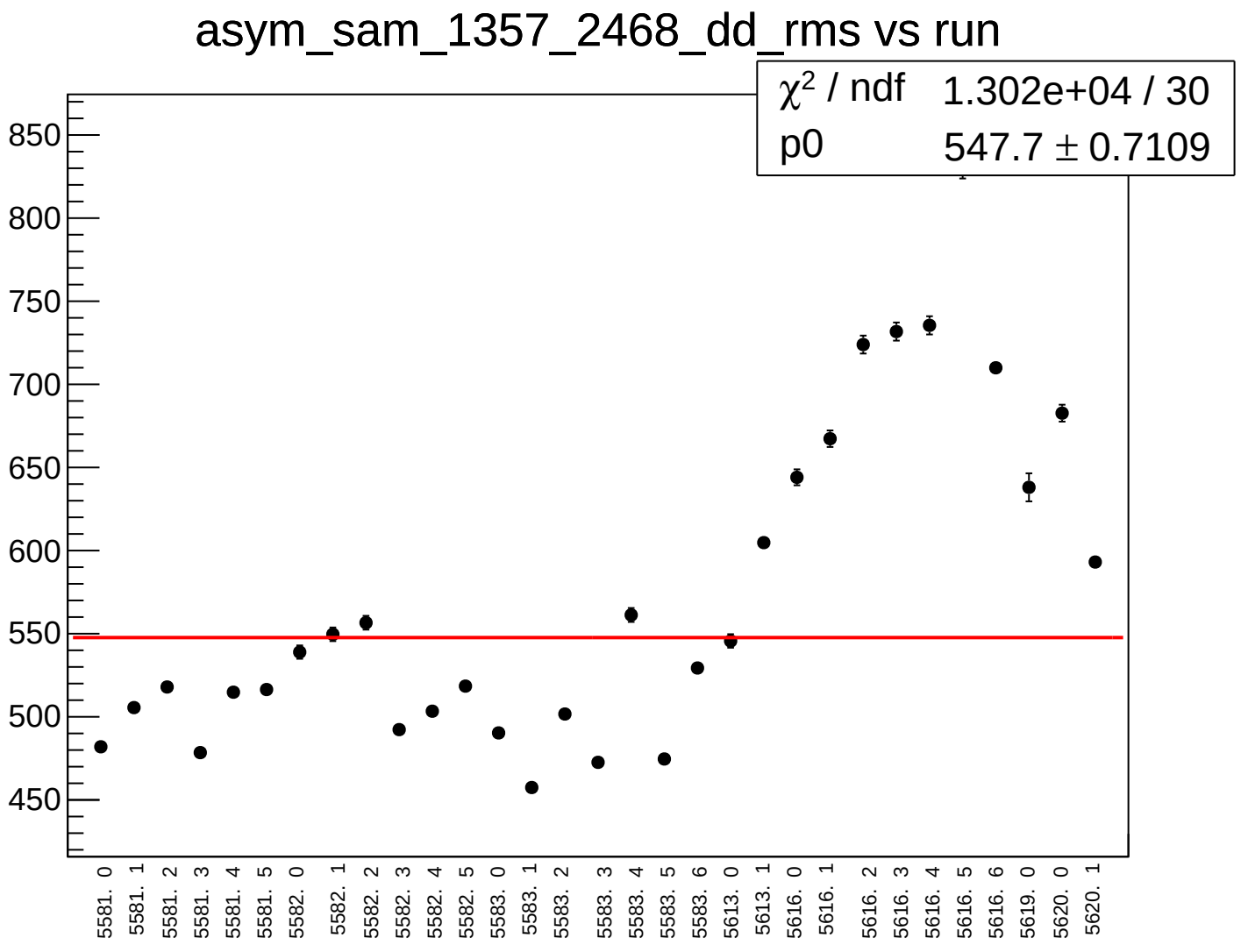

pull1D
Entries 31
Mean −0.07988
Std Dev 1.077
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

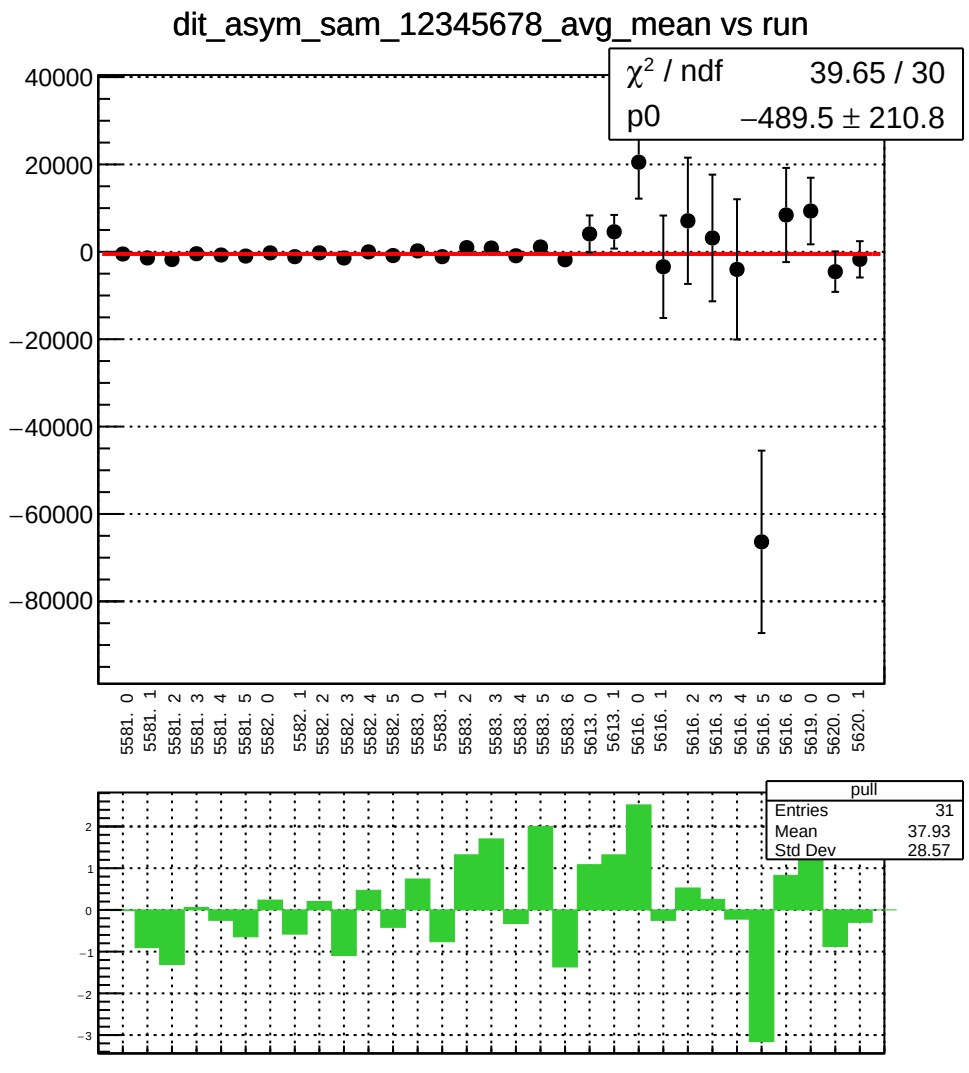

dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.123e+05 / 30
p0 51.84 ± 0.07374
350
300
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

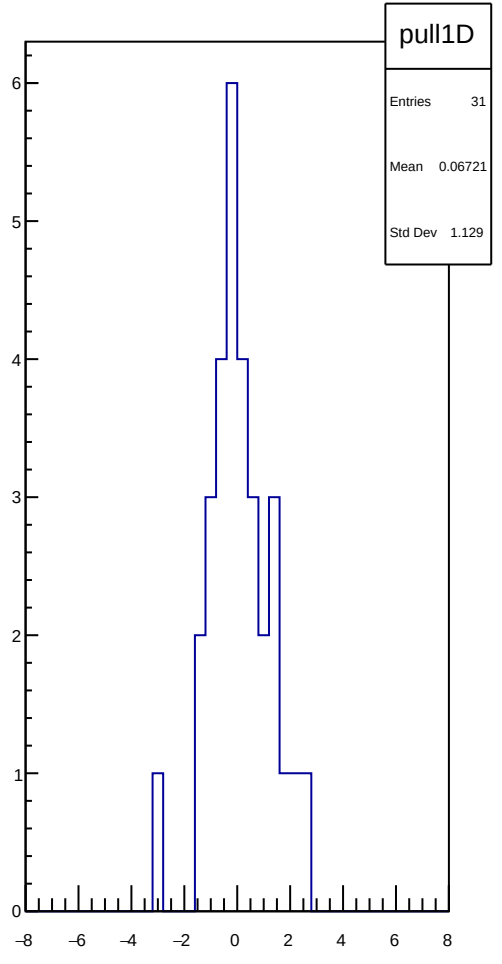

asym_sam_1357_2468_dd_correction_mean vs run
χ² / ndf 40.21 / 30
p0 1018 ± 1001
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 20.12
Std Dev 23.87
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 31
Mean −0.03096
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

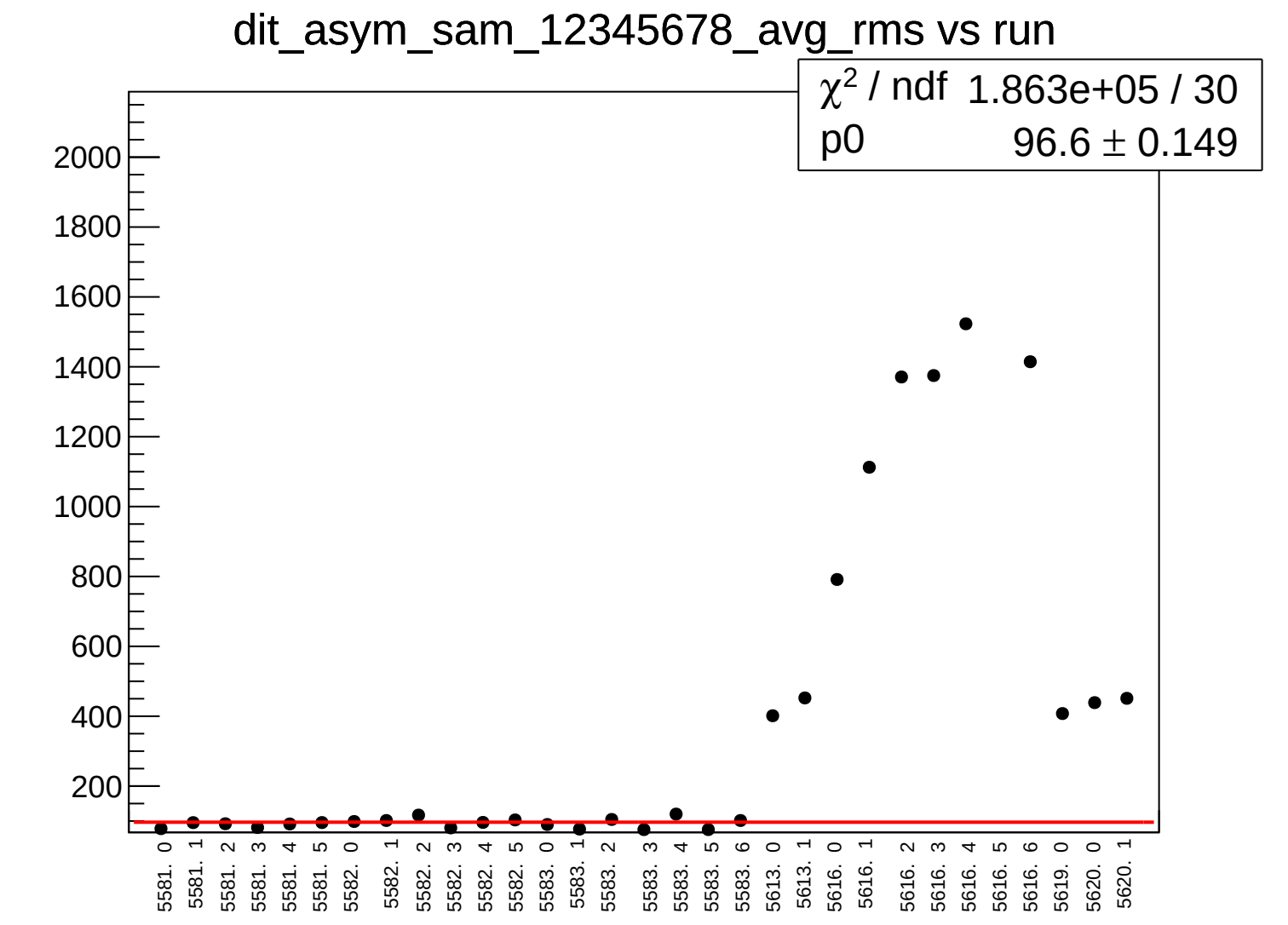

asym_sam_1357_2468_dd_correction_rms vs run
χ² / ndf 1.092e+04 / 30
p0 546 ± 0.7075
800
750
700
650
600
550
500
450
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

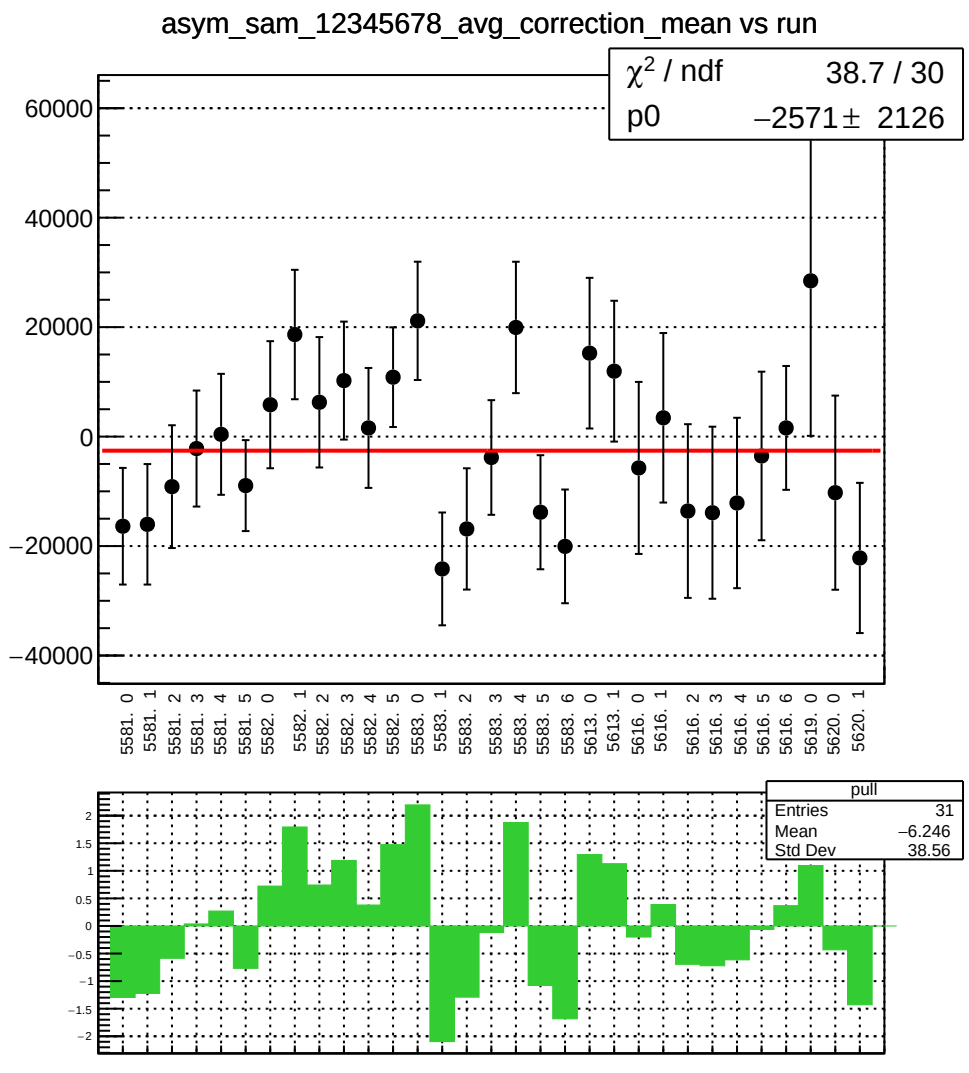

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 40.26 / 30
p0 −984.8 ± 1005
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 10.45
Std Dev 21.67
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean 0.04018
Std Dev 1.139
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

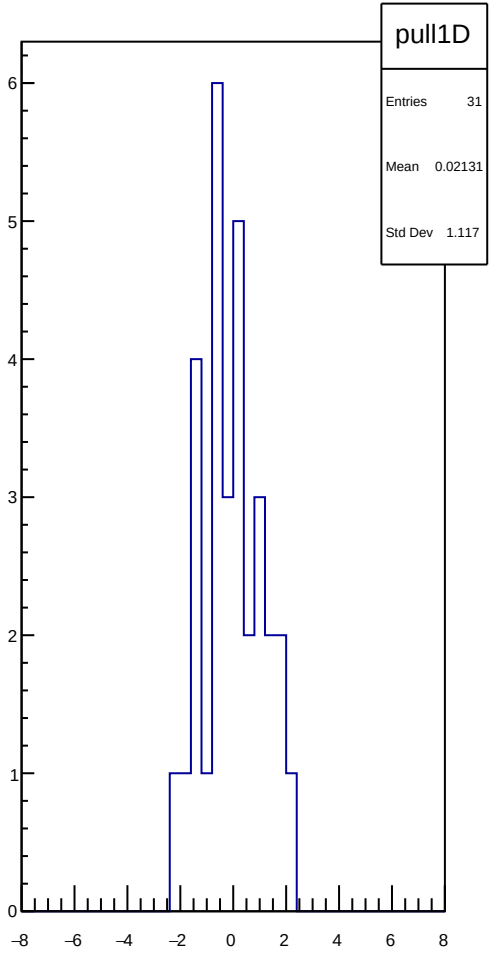

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.302e+04 / 30
p0 547.7 ± 0.7109
850
800
750
700
650
600
550
500
450
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

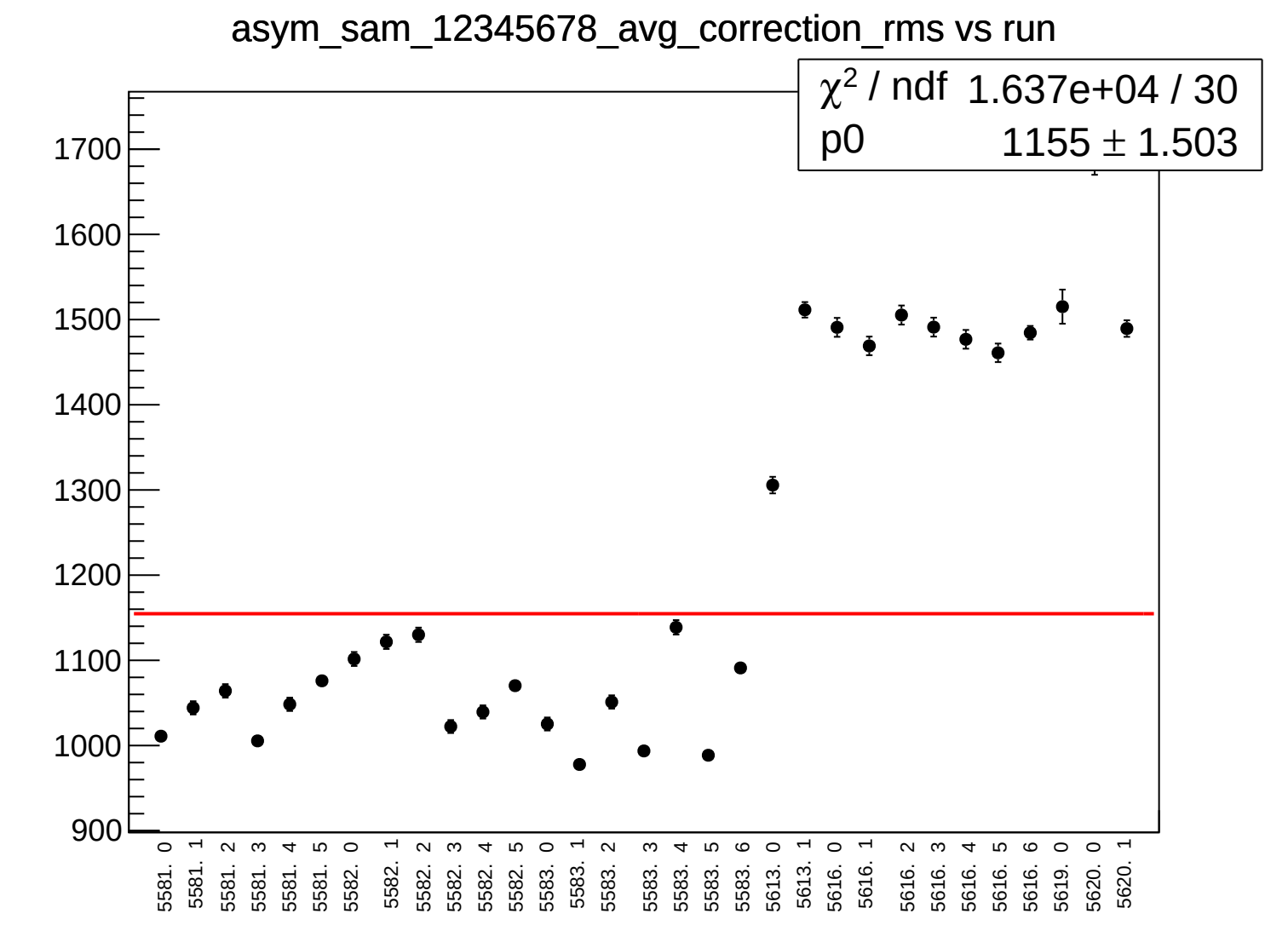

dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 39.65 / 30
p0 −489.5 ± 210.8
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 37.93
Std Dev 28.57
2
1
0
−1
−2
−3

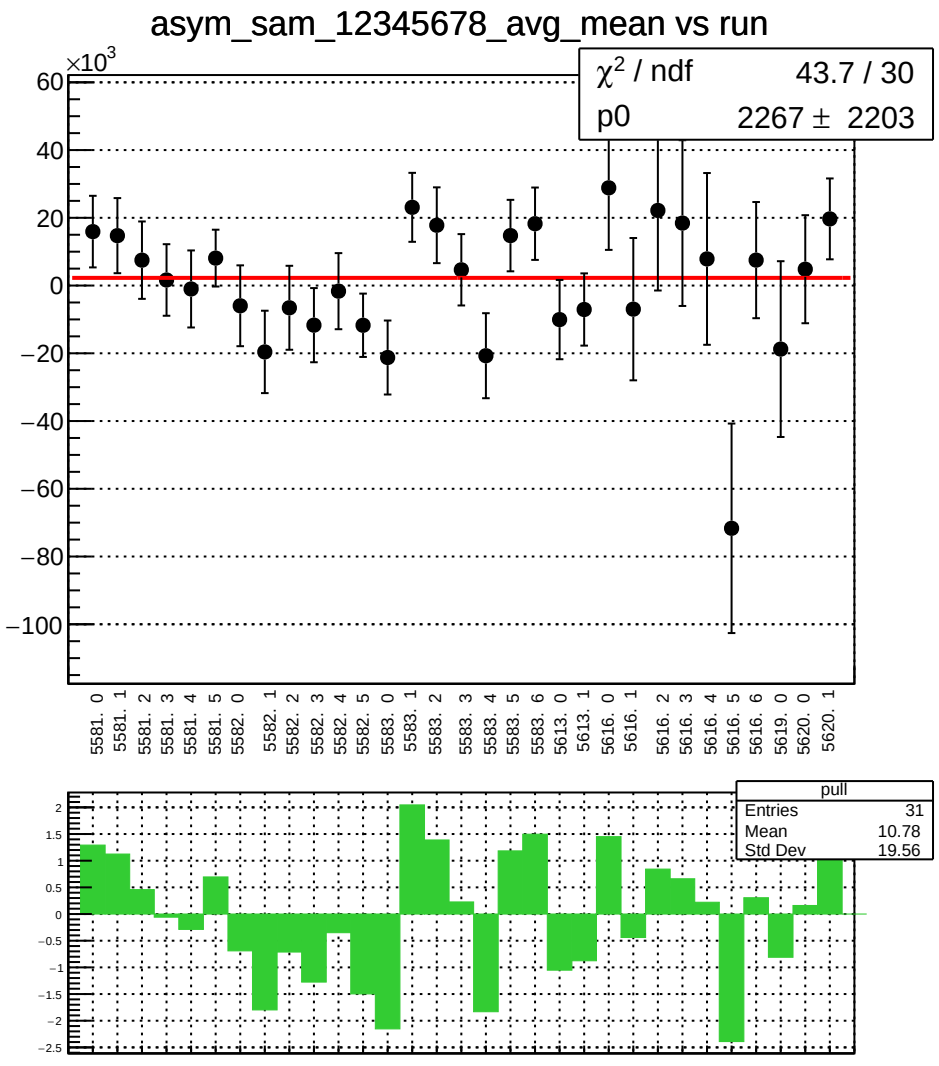

pull1D
Entries 31
Mean 0.06721
Std Dev 1.129
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

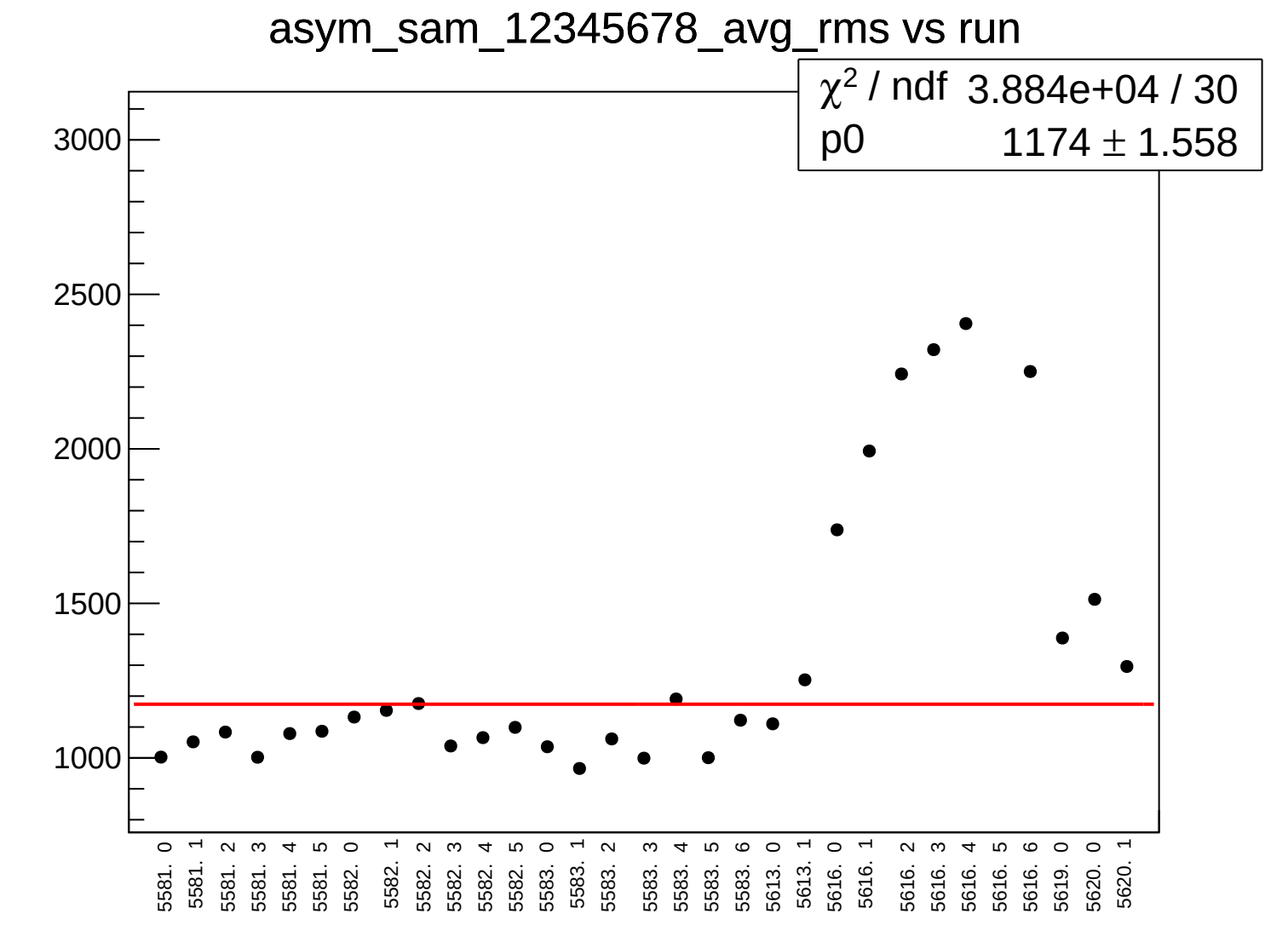

dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.863e+05 / 30
p0 96.6 ± 0.149
2000
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

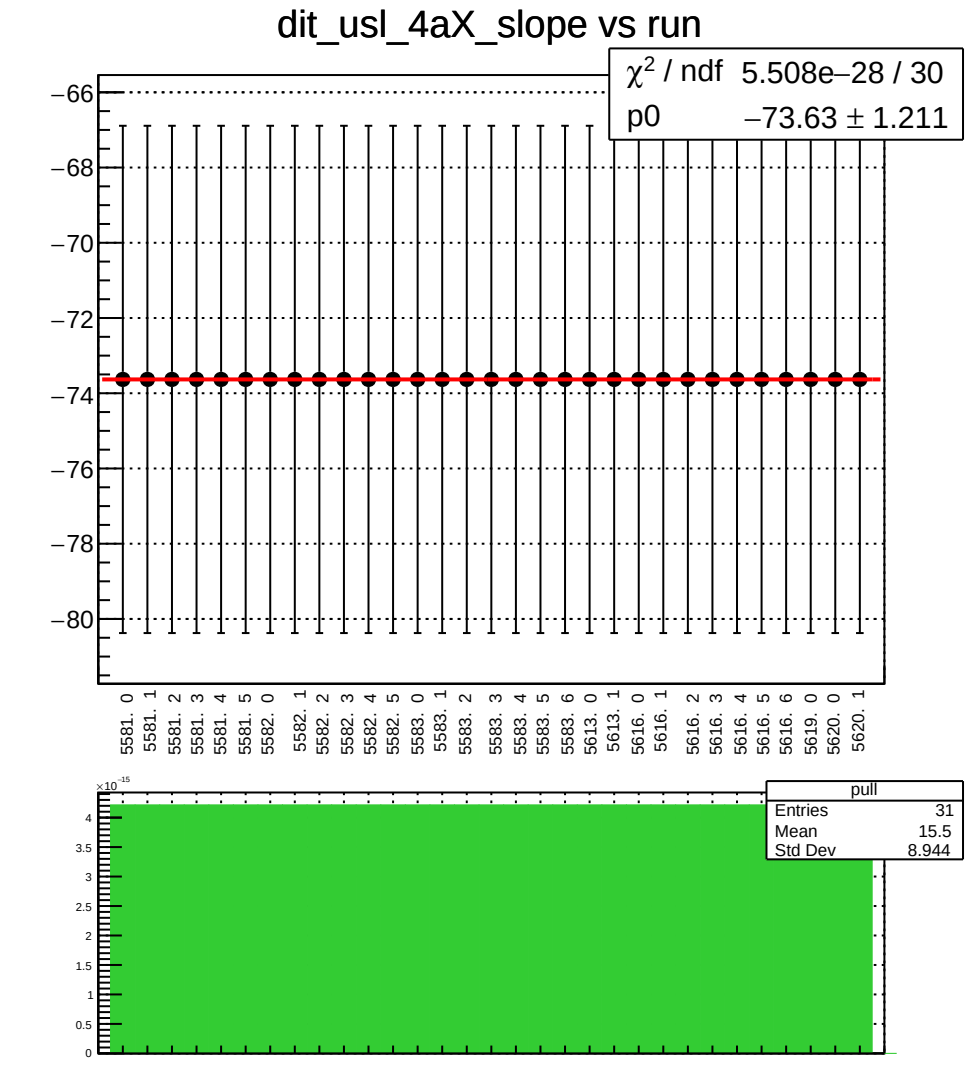

asym_sam_12345678_avg_correction_mean vs run
χ² / ndf 38.7 / 30
p0 −2571 ± 2126
60000
40000
20000
0
−20000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −6.246
Std Dev 38.56
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

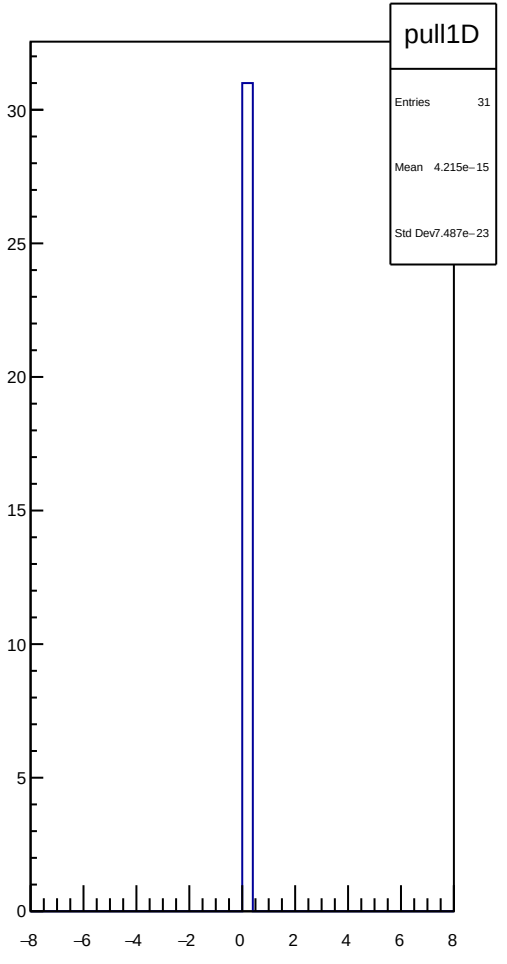

pull1D
Entries 31
Mean 0.02131
Std Dev 1.117
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

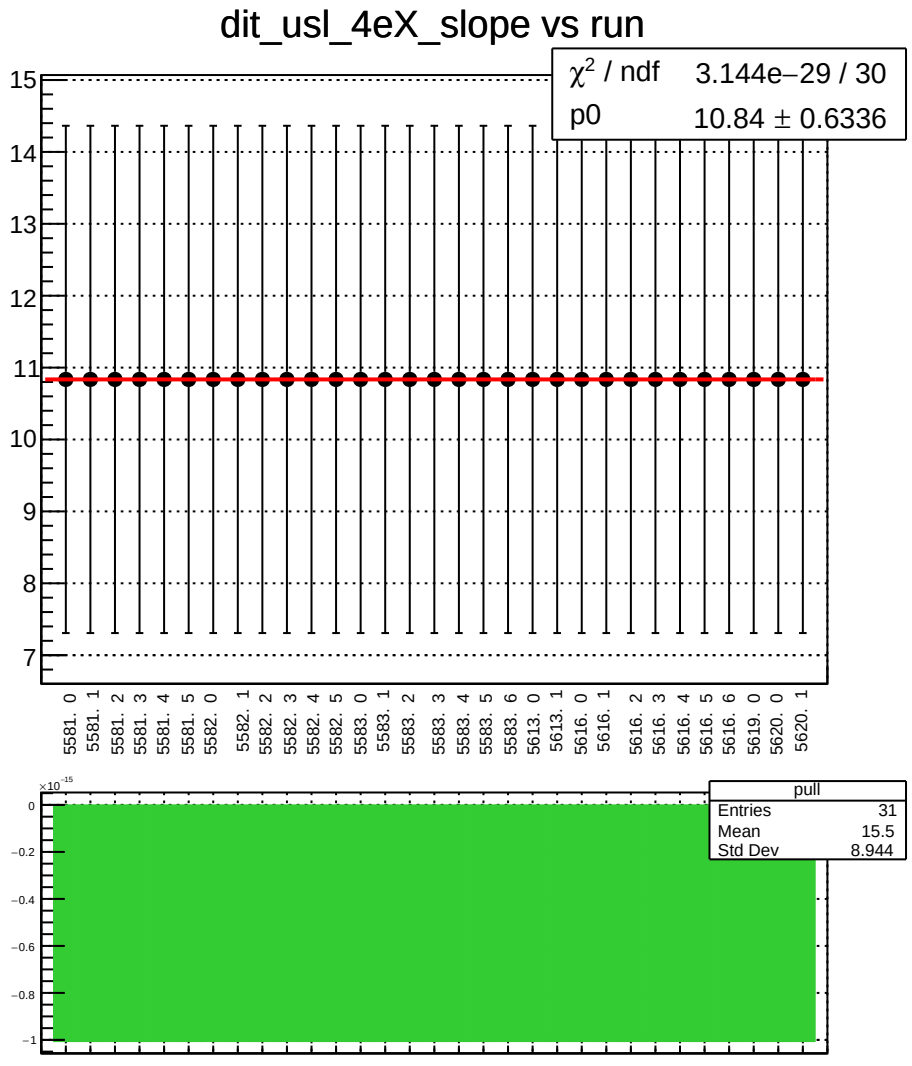

asym_sam_12345678_avg_correction_rms vs run
χ² / ndf 1.637e+04 / 30
p0 1155 ± 1.503
1700
1600
1500
1400
1300
1200
1100
1000
900
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

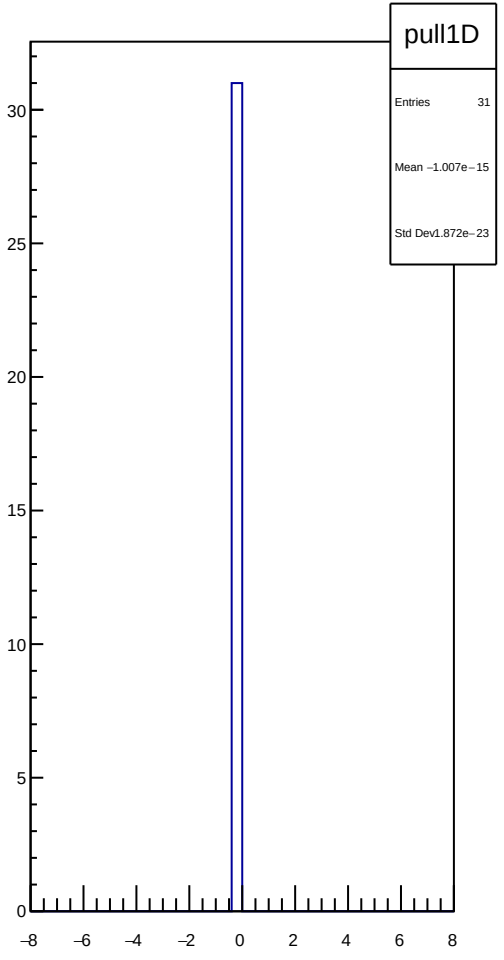

asym_sam_12345678_avg_mean vs run
χ² / ndf 43.7 / 30
p0 2267 ± 2203
×10³
60
40
20
0
−20
−40
−60
−80
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 10.78
Std Dev 19.56
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 31
Mean −0.03902
Std Dev 1.187
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

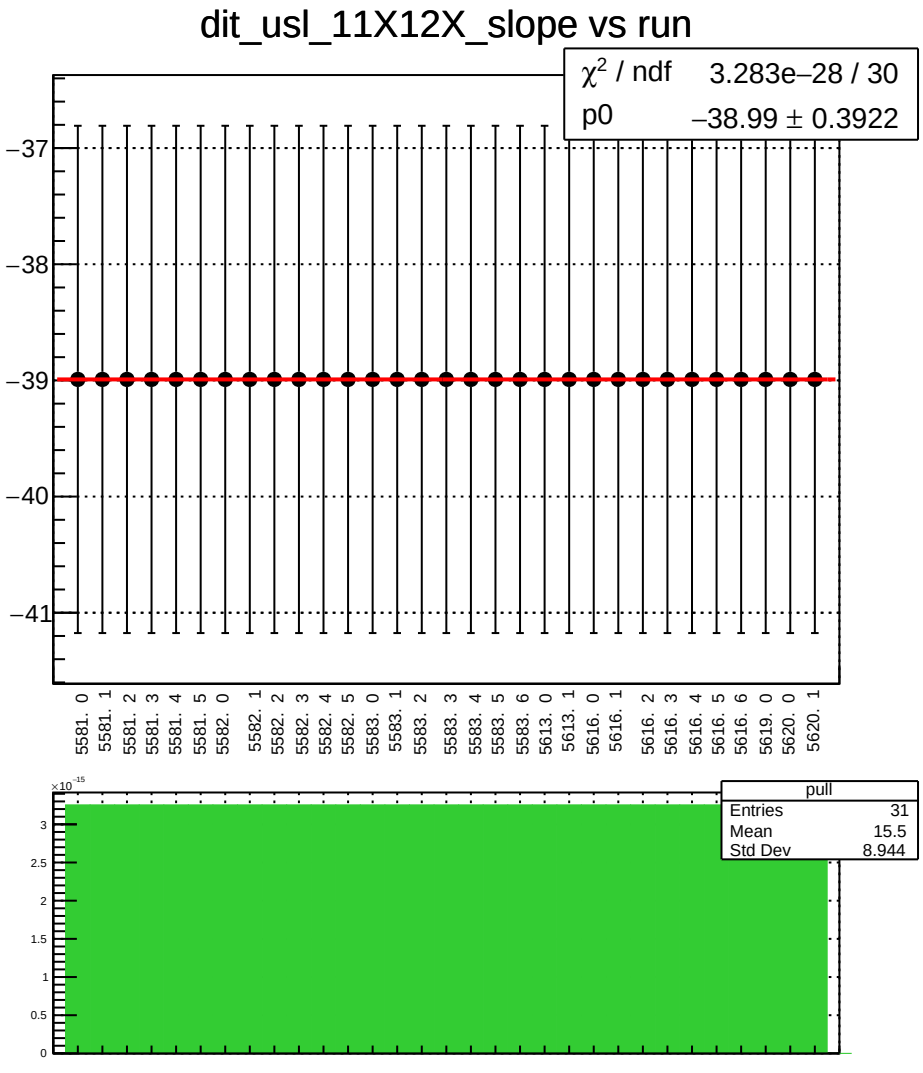

asym_sam_12345678_avg_rms vs run
χ² / ndf 3.884e+04 / 30
p0 1174 ± 1.558
3000
2500
2000
1500
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

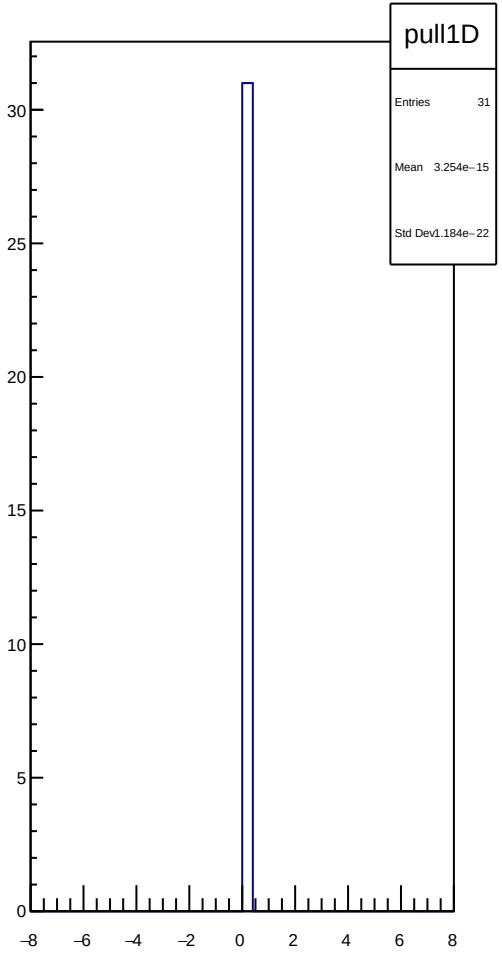

dit_usl_4aX_slope vs run
χ² / ndf 5.508e−28 / 30
p0 −73.63 ± 1.211
−66
−68
−70
−72
−74
−76
−78
−80
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
×10⁻¹⁵
4
3.5
3
2.5
2
1.5
1
0.5
0
pull
Entries 31
Mean 15.5
Std Dev 8.944

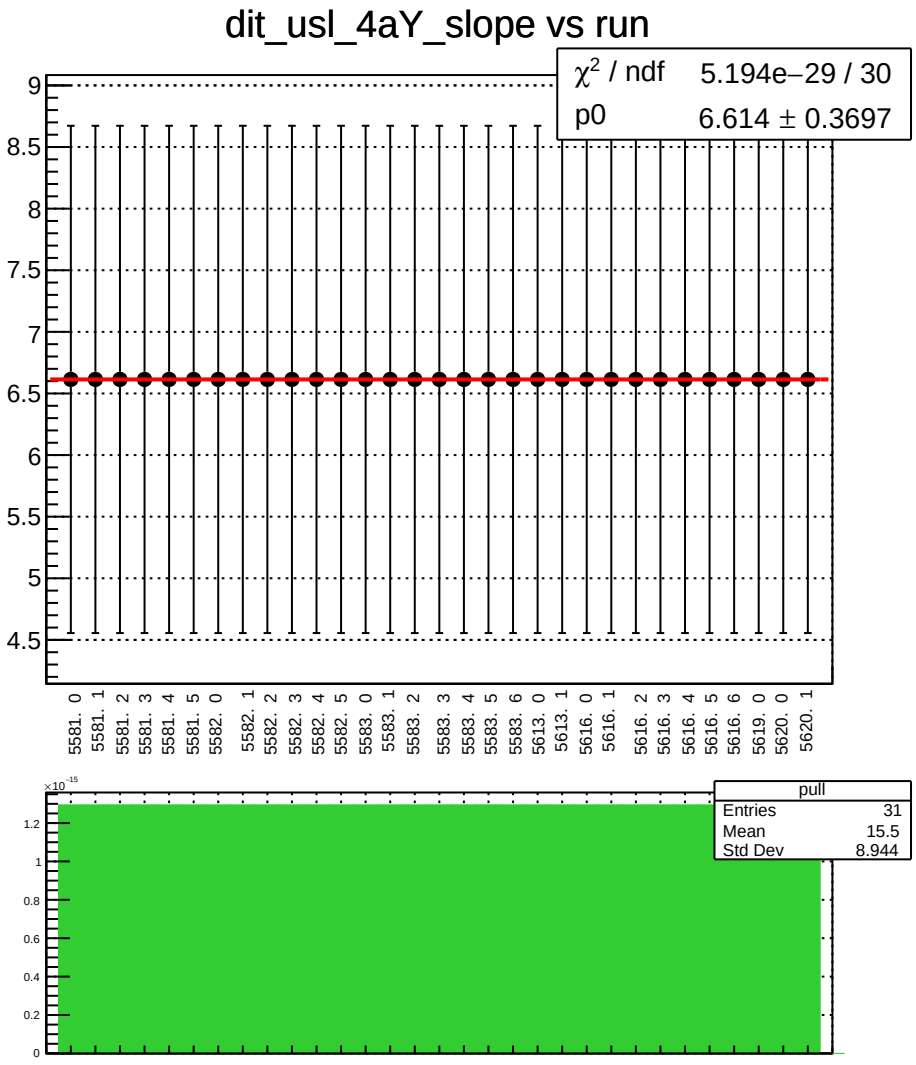

pull1D
Entries 31
Mean 4.215e−15
Std Dev7.487e−23
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

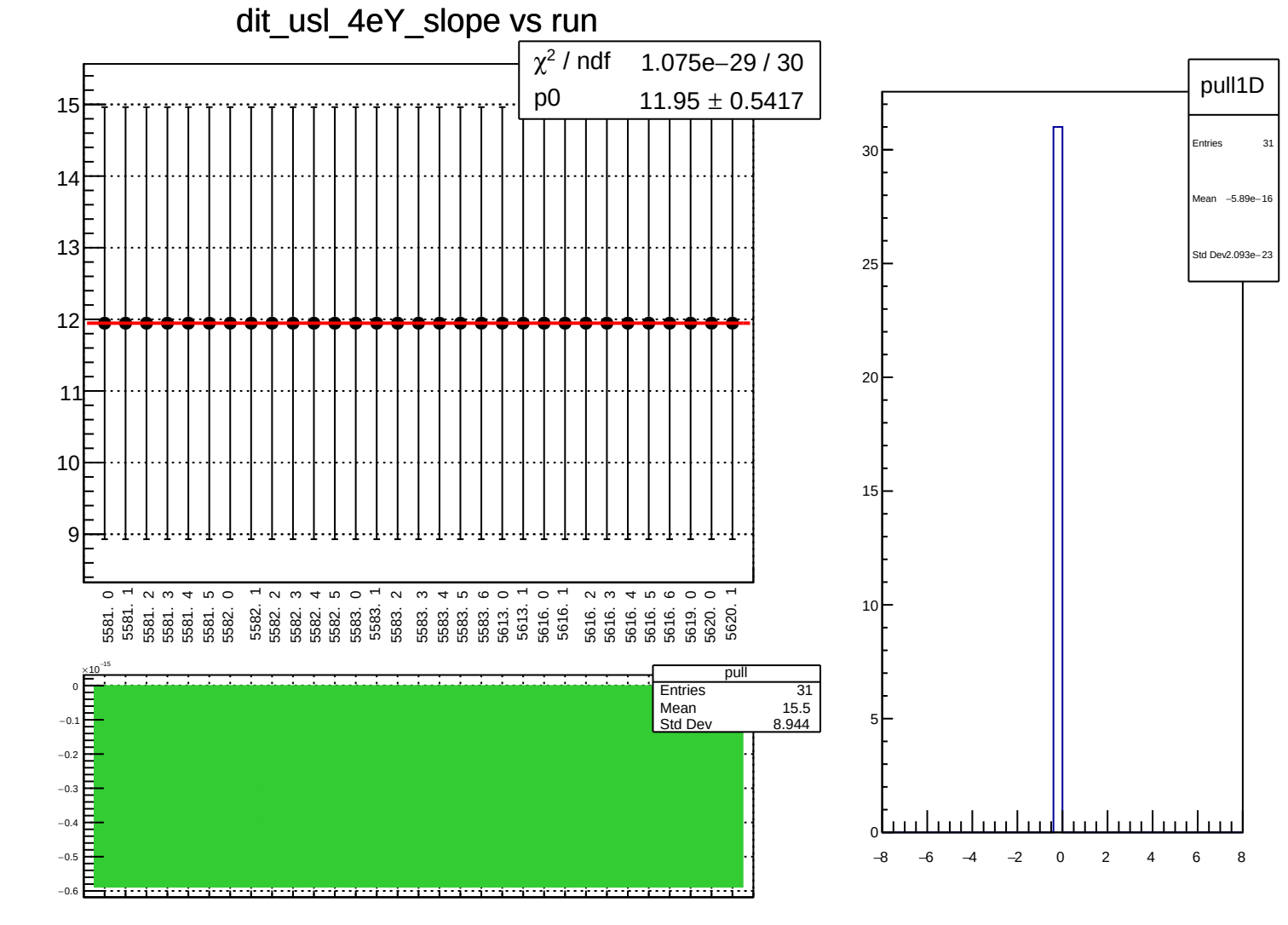

dit_usl_4eX_slope vs run
χ² / ndf 3.144e−29 / 30
p0 10.84 ± 0.6336
15
14
13
12
11
10
9
8
7
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
×10⁻¹⁵
0
−0.2
−0.4
−0.6
−0.8
−1
pull
Entries 31
Mean 15.5
Std Dev 8.944

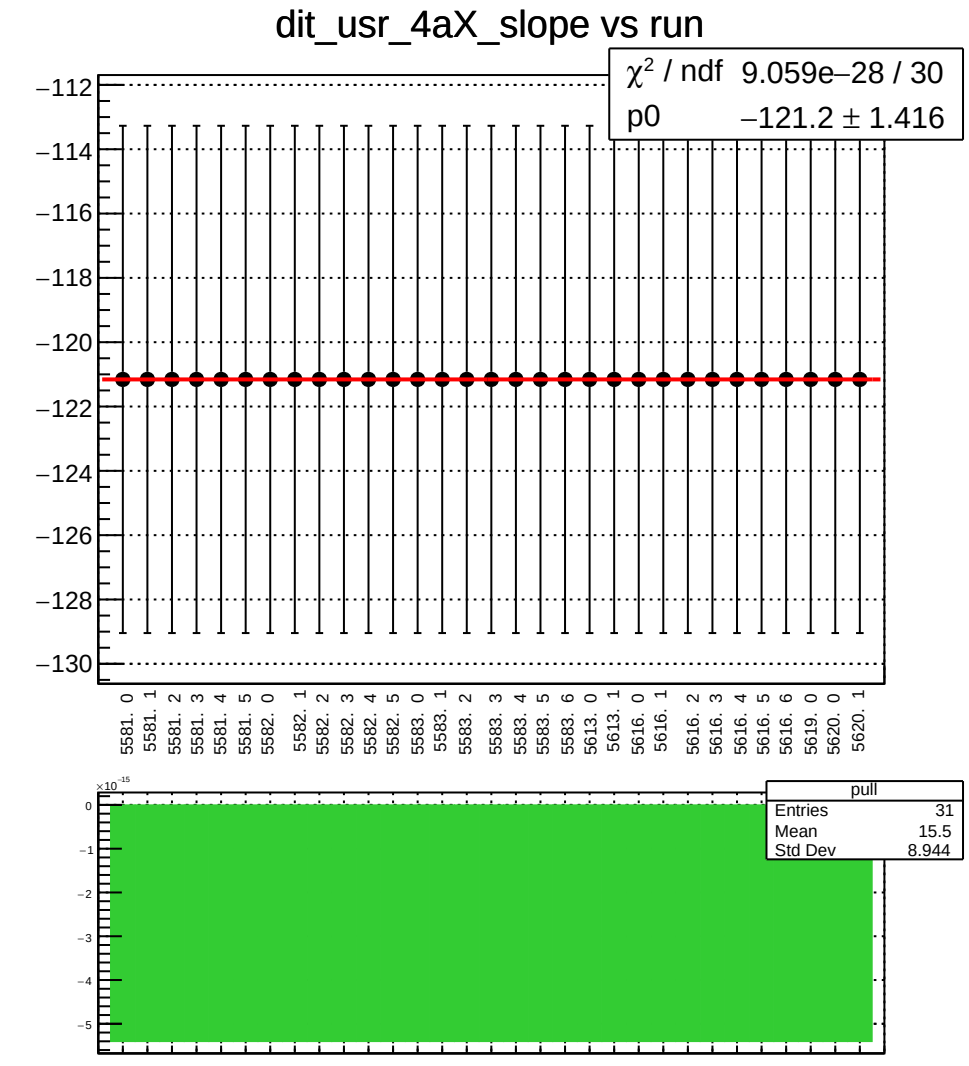

pull1D
Entries 31
Mean −1.007e−15
Std Dev1.872e−23
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

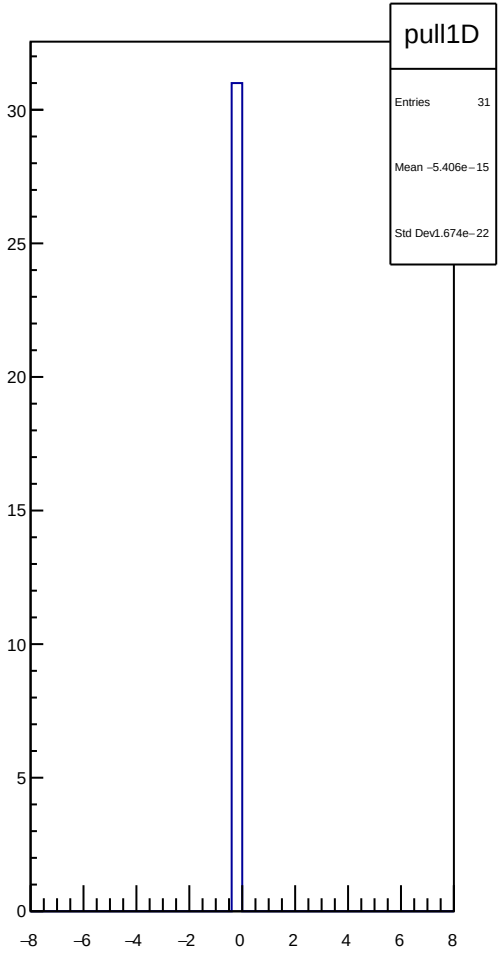

dit_usl_11X12X_slope vs run
χ² / ndf 3.283e−28 / 30
p0 −38.99 ± 0.3922
−37
−38
−39
−40
−41
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
×10⁻¹⁵
3
2.5
2
1.5
1
0.5
0
pull
Entries 31
Mean 15.5
Std Dev 8.944

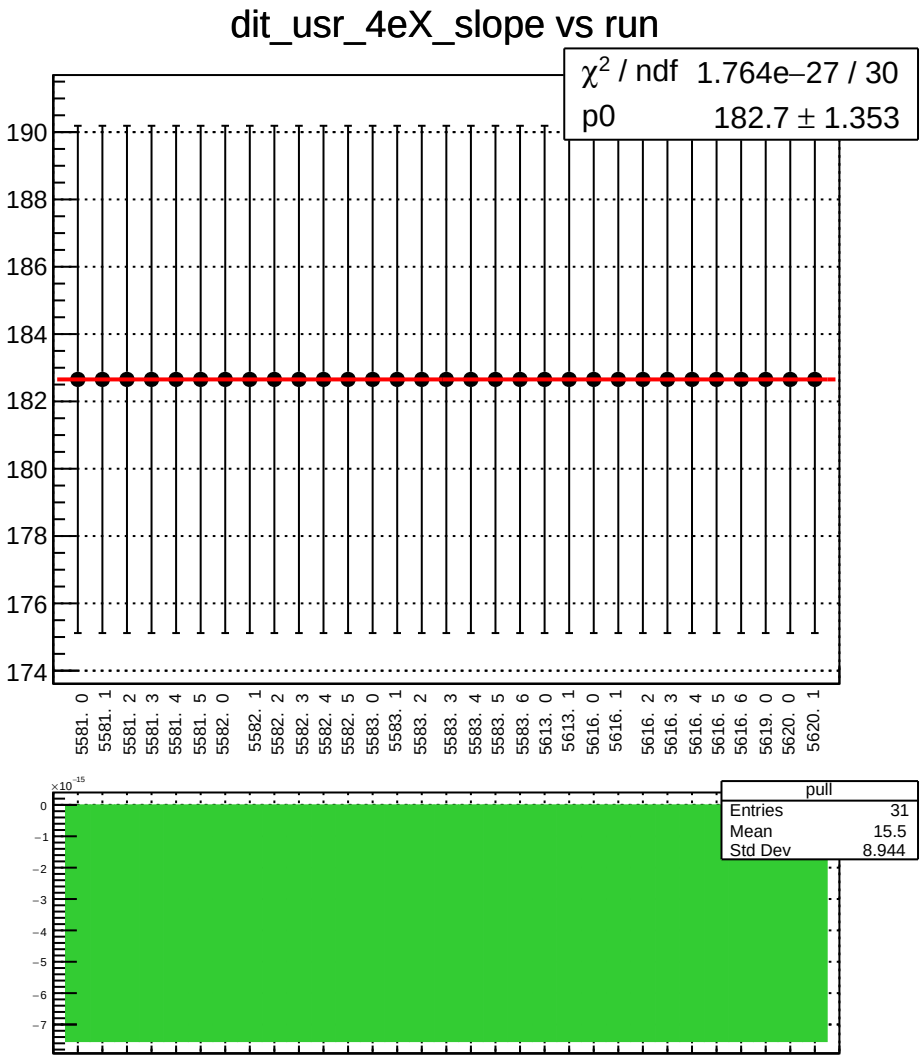

pull1D
Entries 31
Mean 3.254e−15
Std Dev1.184e−22
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

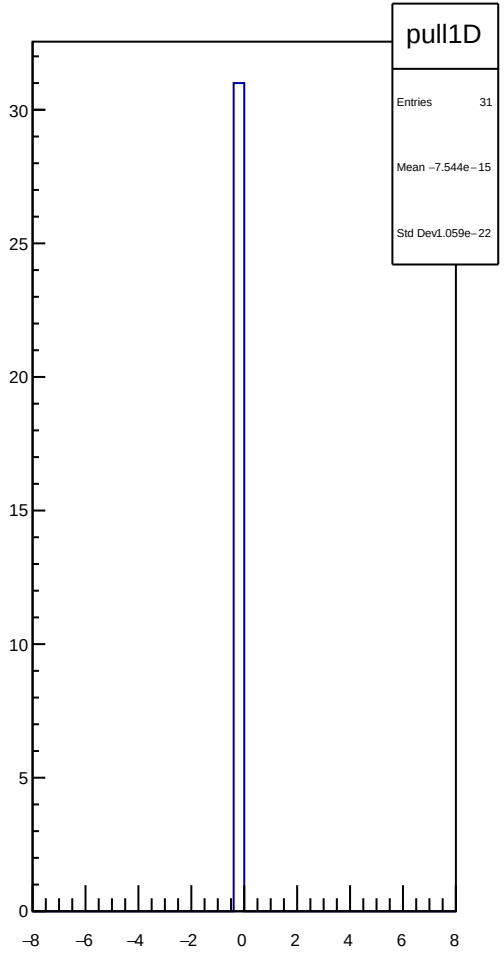

dit_usl_4aY_slope vs run
χ² / ndf 5.194e−29 / 30
p0 6.614 ± 0.3697
9
8.5
8
7.5
7
6.5
6
5.5
5
4.5
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
×10⁻¹⁵
1.2
1
0.8
0.6
0.4
0.2
0
pull
Entries 31
Mean 15.5
Std Dev 8.944
pull1D
Entries 31
Mean 1.294e−15
Std Dev2.647e−23
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

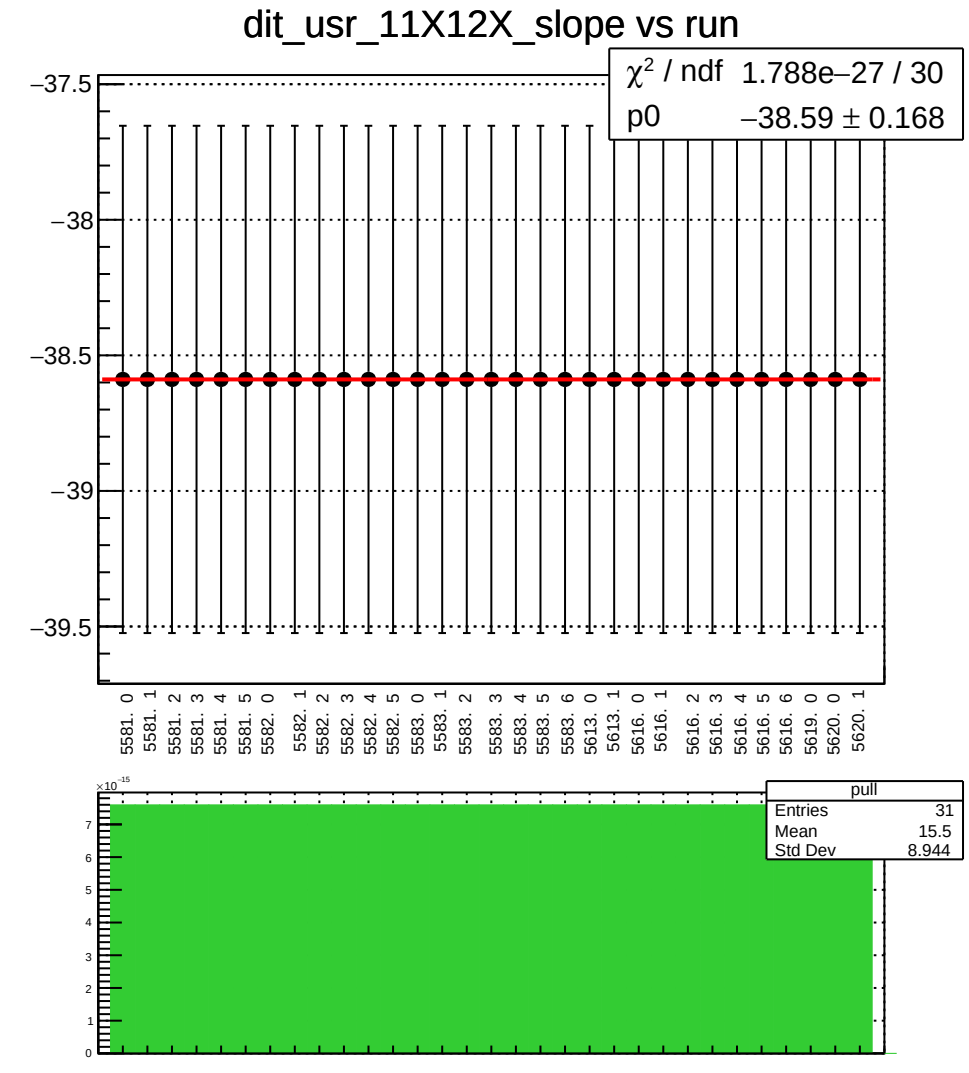

dit_usl_4eY_slope vs run
χ² / ndf 1.075e−29 / 30
p0 11.95 ± 0.5417
15
14
13
12
11
10
9
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
×10⁻¹⁵
0
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
pull
Entries 31
Mean 15.5
Std Dev 8.944
pull1D
Entries 31
Mean −5.89e−16
Std Dev 2.093e−23
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

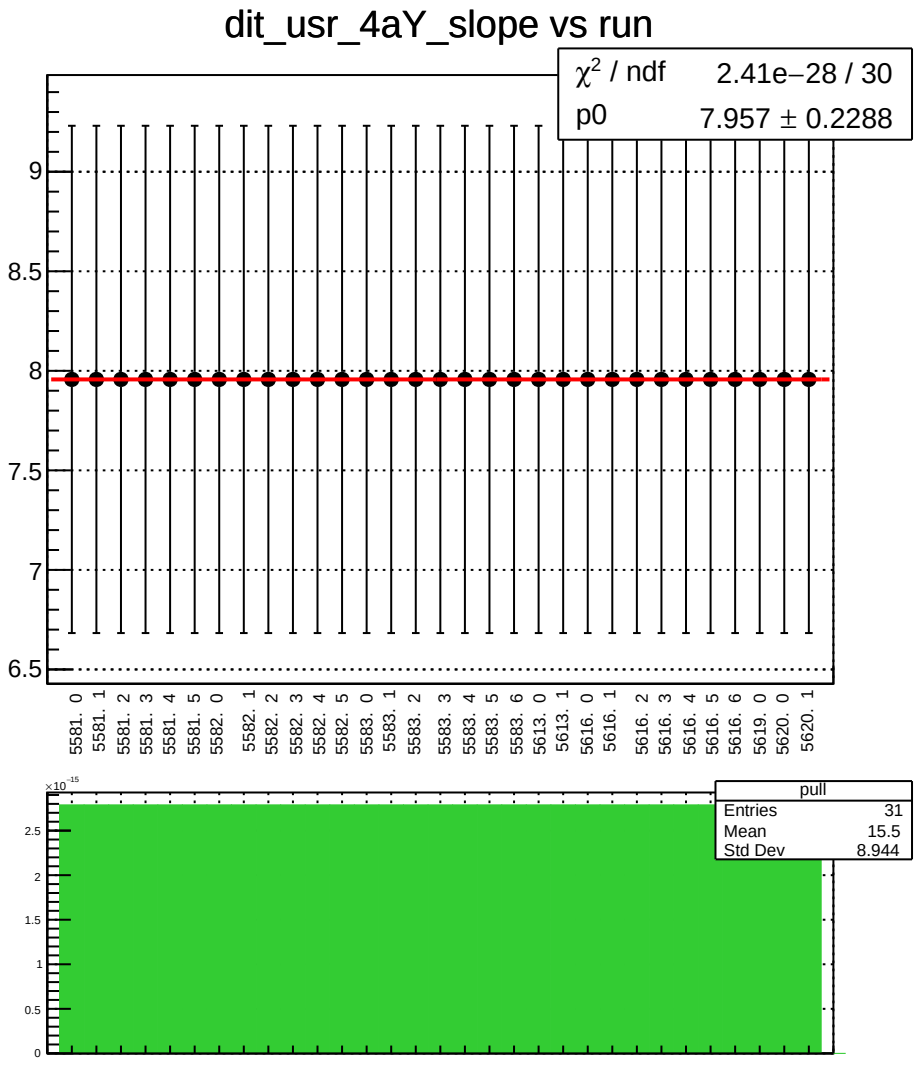

dit_usr_4aX_slope vs run
χ² / ndf 9.059e−28 / 30
p0 −121.2 ± 1.416
−112
−114
−116
−118
−120
−122
−124
−126
−128
−130
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
×10⁻¹⁵
0
−1
−2
−3
−4
−5
pull
Entries 31
Mean 15.5
Std Dev 8.944

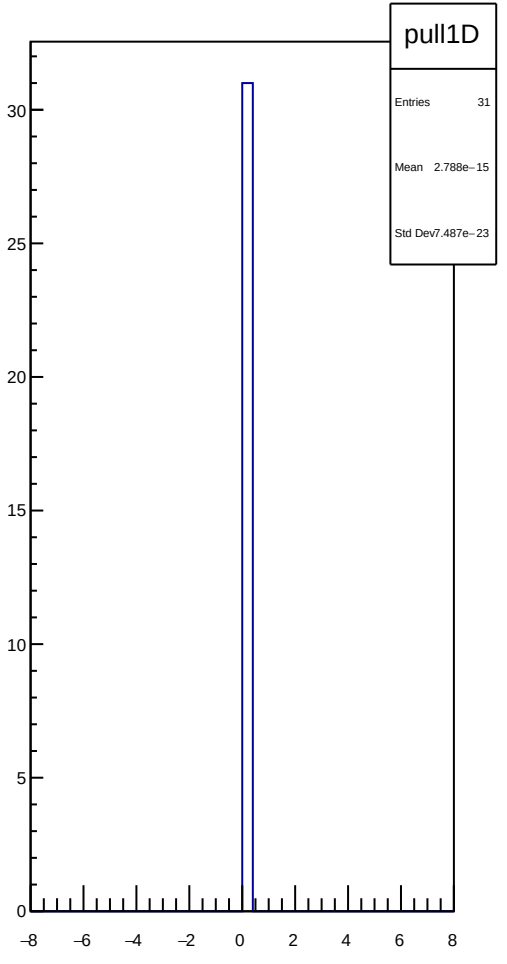

pull1D
Entries 31
Mean −5.406e−15
Std Dev1.674e−22
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

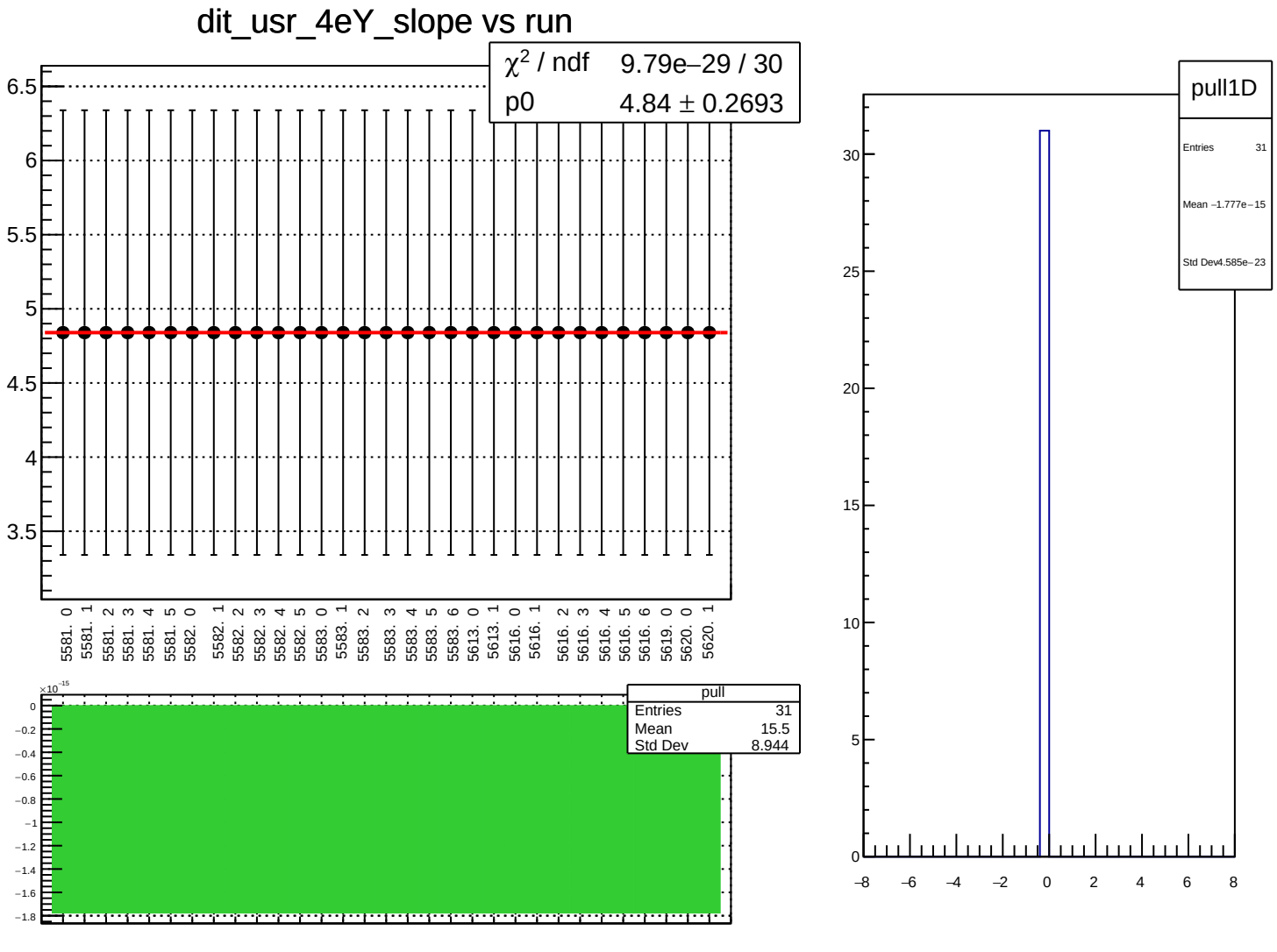

dit_usr_4eX_slope vs run
χ² / ndf 1.764e−27 / 30
p0 182.7 ± 1.353
190
188
186
184
182
180
178
176
174
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
×10⁻¹⁵
0
−1
−2
−3
−4
−5
−6
−7
pull
Entries 31
Mean 15.5
Std Dev 8.944

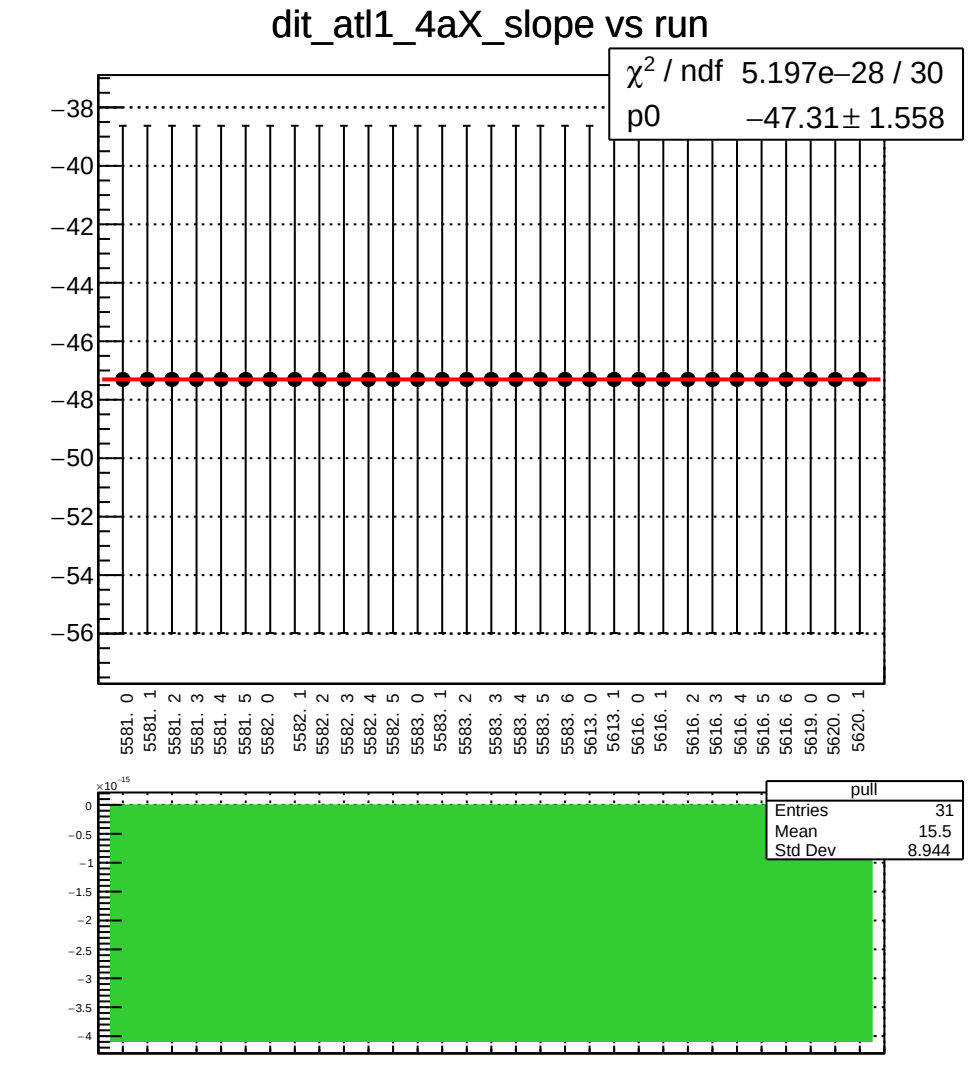

pull1D
Entries 31
Mean −7.544e−15
Std Dev1.059e−22
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

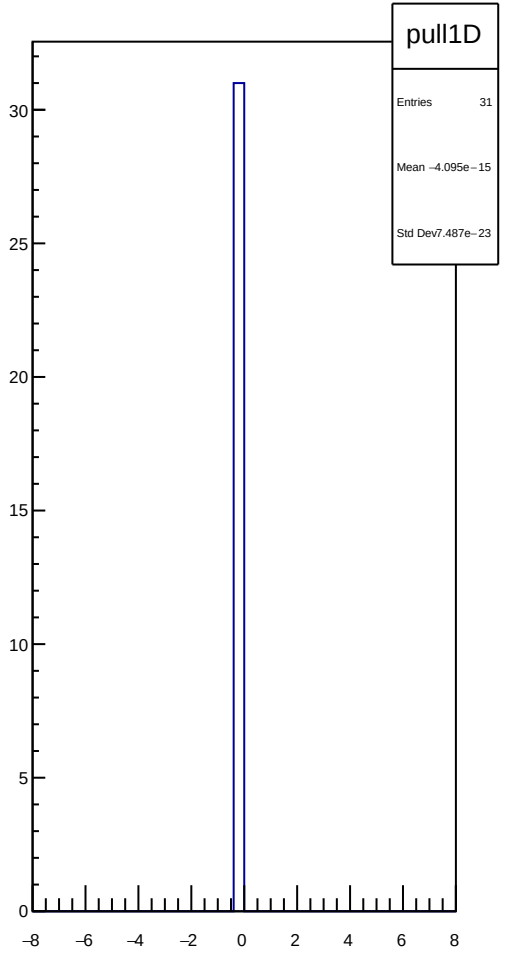

dit_usr_11X12X_slope vs run
χ² / ndf 1.788e−27 / 30
p0 −38.59 ± 0.168
−37.5
−38
−38.5
−39
−39.5
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
×10⁻¹⁵
pull
Entries 31
Mean 15.5
Std Dev 8.944
pull1D
Entries 31
Mean 7.596e−15
Std Dev1.834e−22

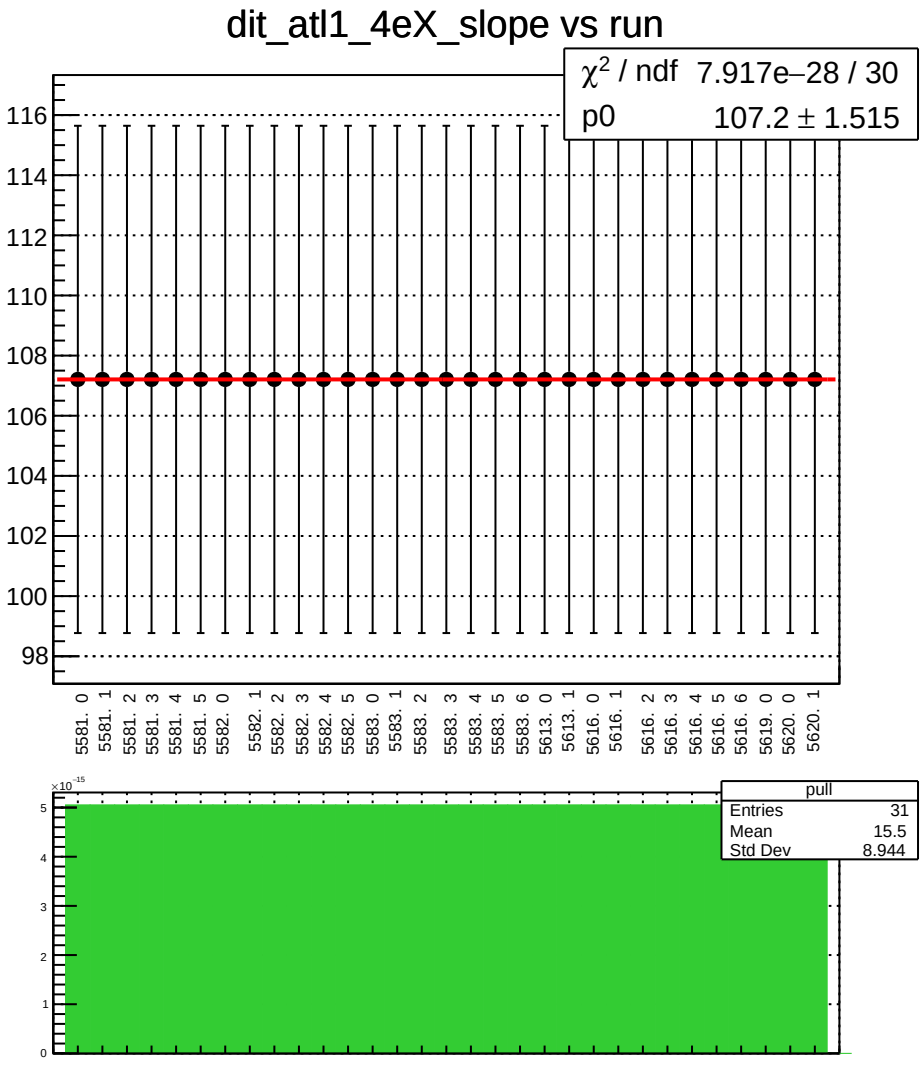

dit_usr_4aY_slope vs run
χ² / ndf 2.41e−28 / 30
p0 7.957 ± 0.2288
9
8.5
8
7.5
7
6.5
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
×10⁻¹⁵
2.5
2
1.5
1
0.5
0
pull
Entries 31
Mean 15.5
Std Dev 8.944

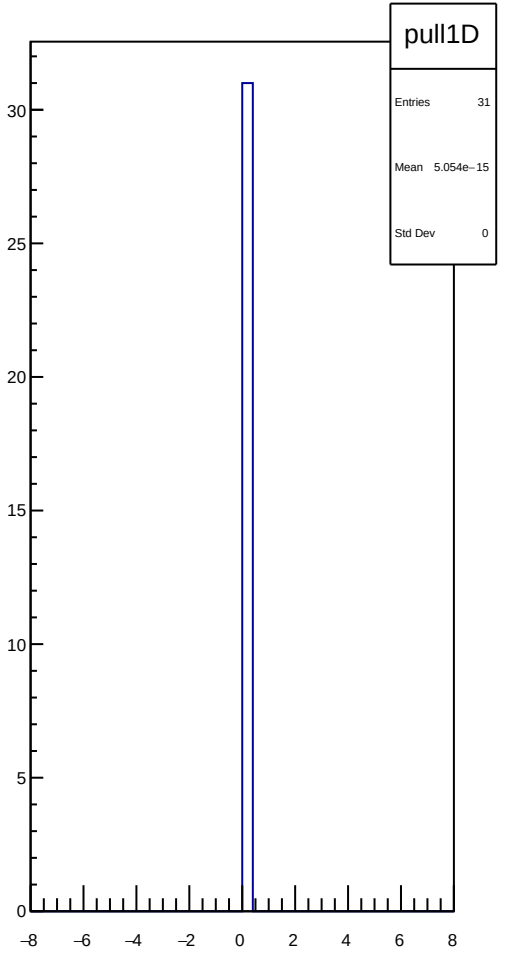

pull1D
Entries 31
Mean 2.788e−15
Std Dev7.487e−23
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

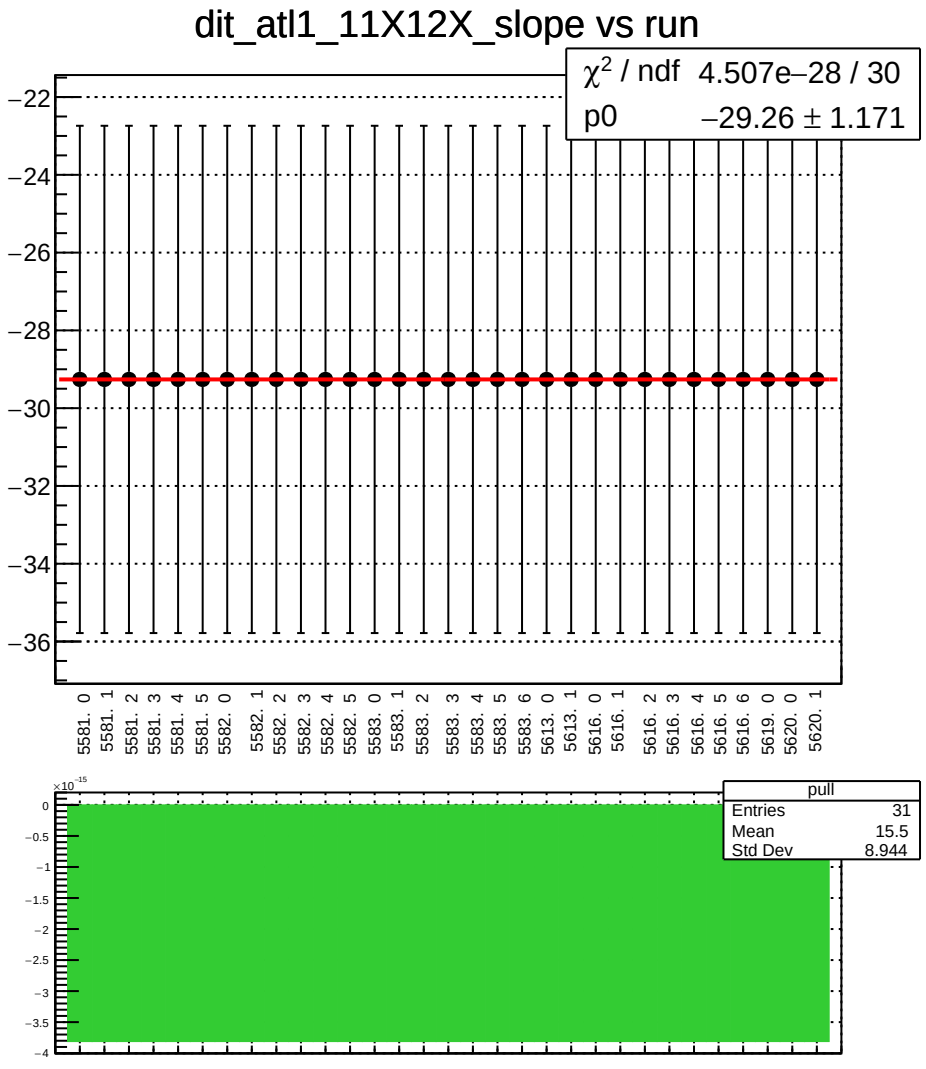

dit_usr_4eY_slope vs run
χ² / ndf 9.79e−29 / 30
p0 4.84 ± 0.2693
6.5
6
5.5
5
4.5
4
3.5
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
×10⁻¹⁵
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4
−1.6
−1.8
pull
Entries 31
Mean 15.5
Std Dev 8.944
pull1D
Entries 31
Mean −1.777e−15
Std Dev 4.585e−23
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

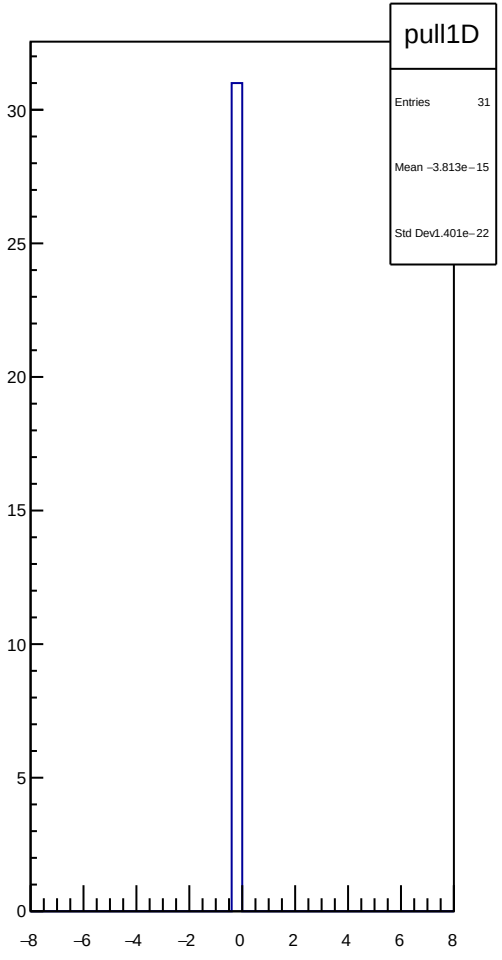

dit_atl1_4aX_slope vs run
χ² / ndf 5.197e−28 / 30
p0 −47.31 ± 1.558
−38
−40
−42
−44
−46
−48
−50
−52
−54
−56
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
×10⁻¹⁵
0
−0.5
−1
−1.5
−2
−2.5
−3
−3.5
−4
pull
Entries 31
Mean 15.5
Std Dev 8.944

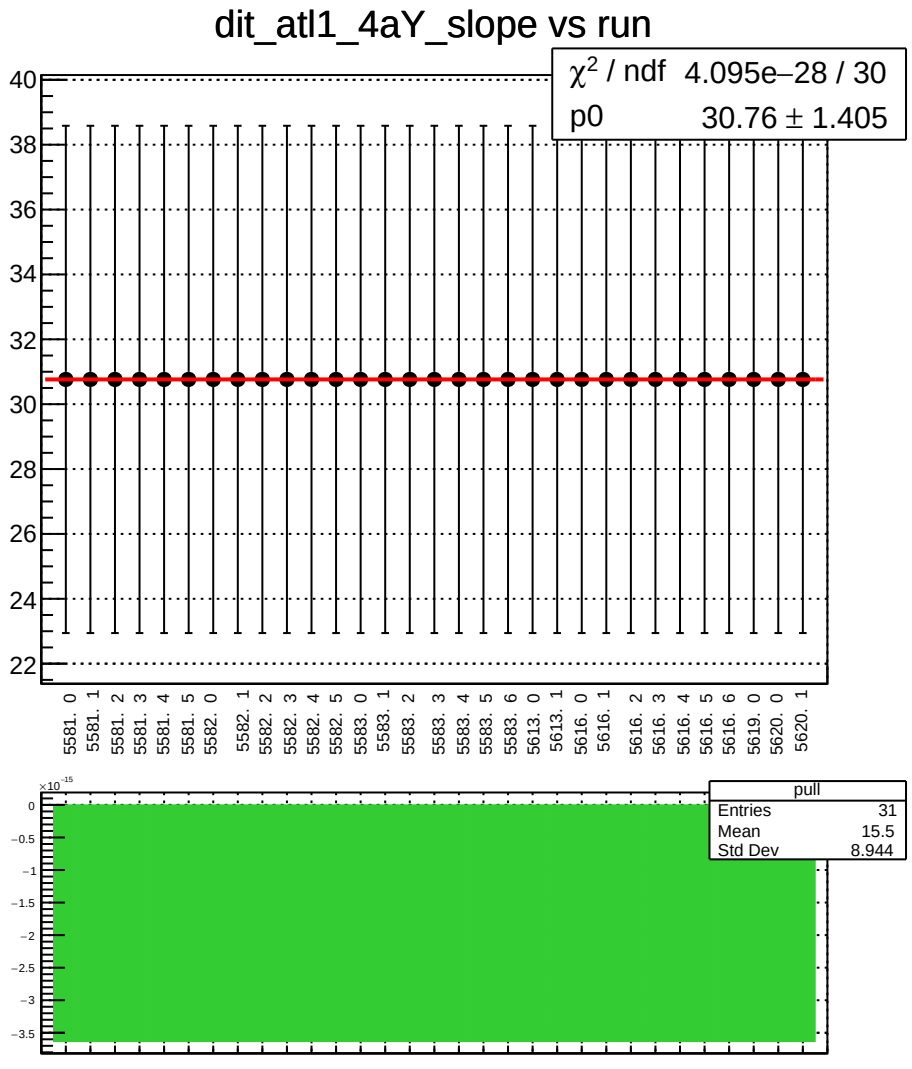

pull1D
Entries 31
Mean −4.095e−15
Std Dev 7.487e−23
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

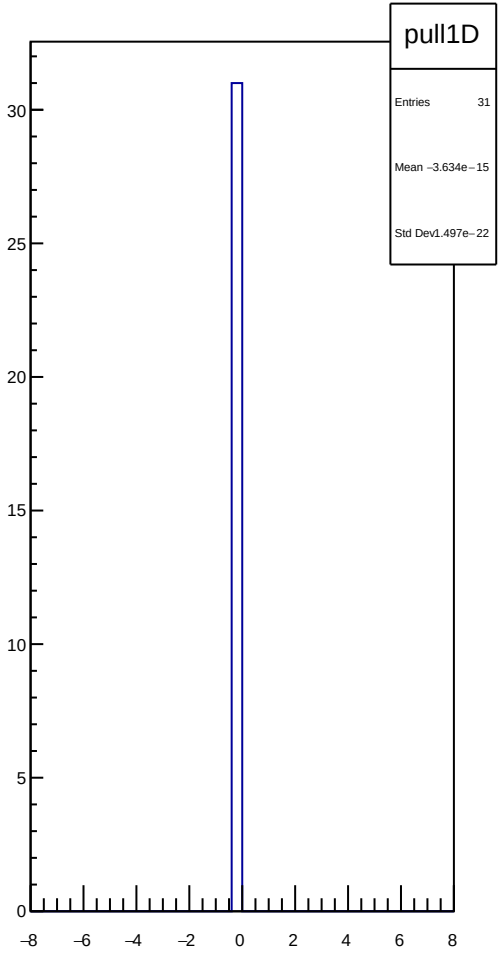

dit_atl1_4eX_slope vs run
χ² / ndf 7.917e−28 / 30
p0 107.2 ± 1.515
116
114
112
110
108
106
104
102
100
98
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
×10⁻¹⁵
5
4
3
2
1
0
pull
Entries 31
Mean 15.5
Std Dev 8.944

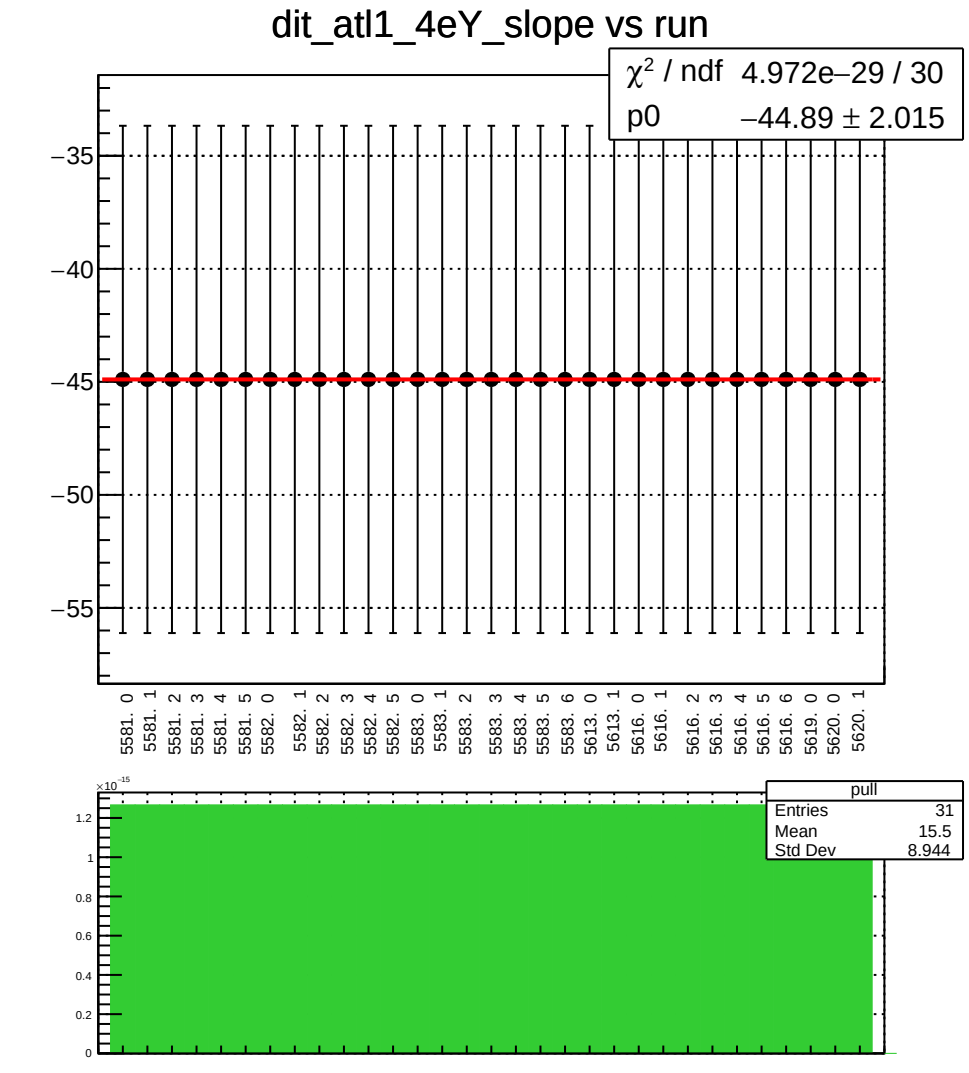

pull1D
Entries 31
Mean 5.054e−15
Std Dev 0
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

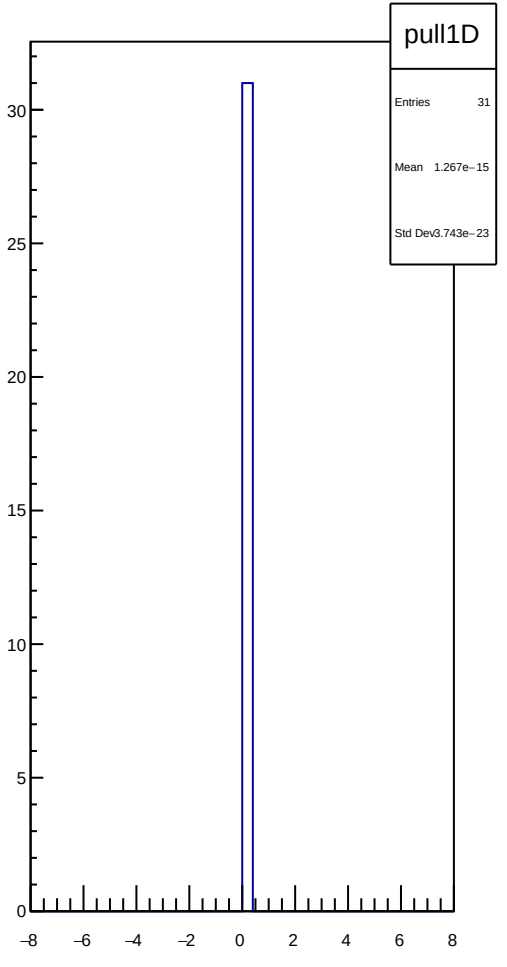

dit_atl1_11X12X_slope vs run
χ² / ndf 4.507e−28 / 30
p0 −29.26 ± 1.171
−22
−24
−26
−28
−30
−32
−34
−36
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
×10⁻¹⁵
0
−0.5
−1
−1.5
−2
−2.5
−3
−3.5
−4
pull
Entries 31
Mean 15.5
Std Dev 8.944

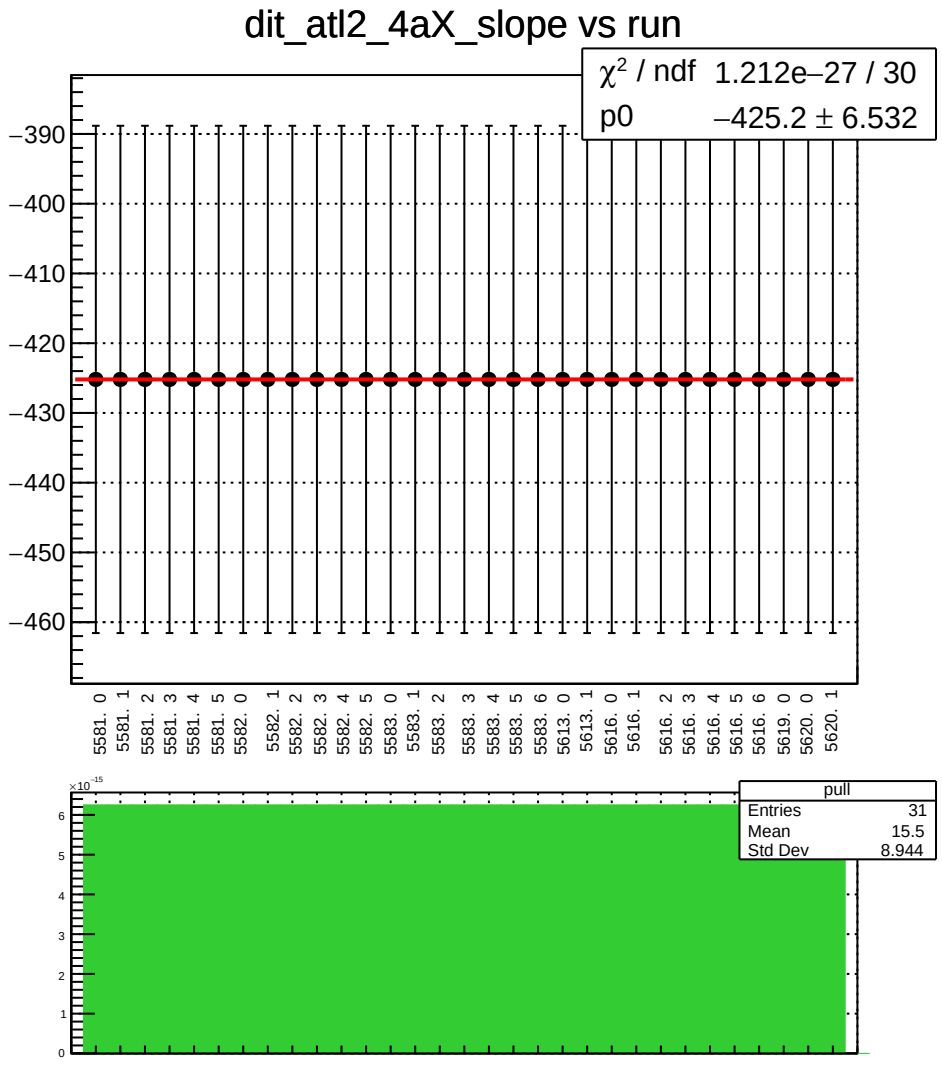

pull1D
Entries 31
Mean −3.813e−15
Std Dev1.401e−22
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

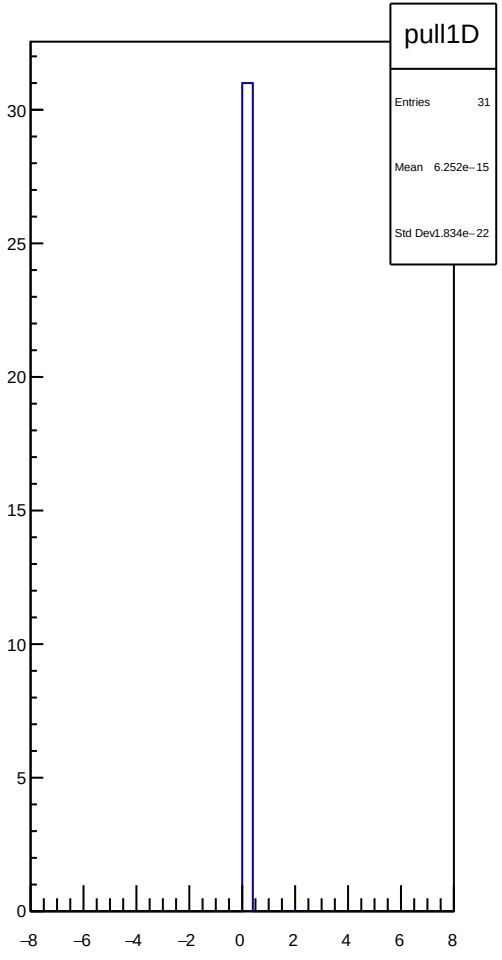

dit_atl1_4aY_slope vs run
χ² / ndf 4.095e−28 / 30
p0 30.76 ± 1.405
40
38
36
34
32
30
28
26
24
22
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
×10⁻¹⁵
0
−0.5
−1
−1.5
−2
−2.5
−3
−3.5
pull
Entries 31
Mean 15.5
Std Dev 8.944

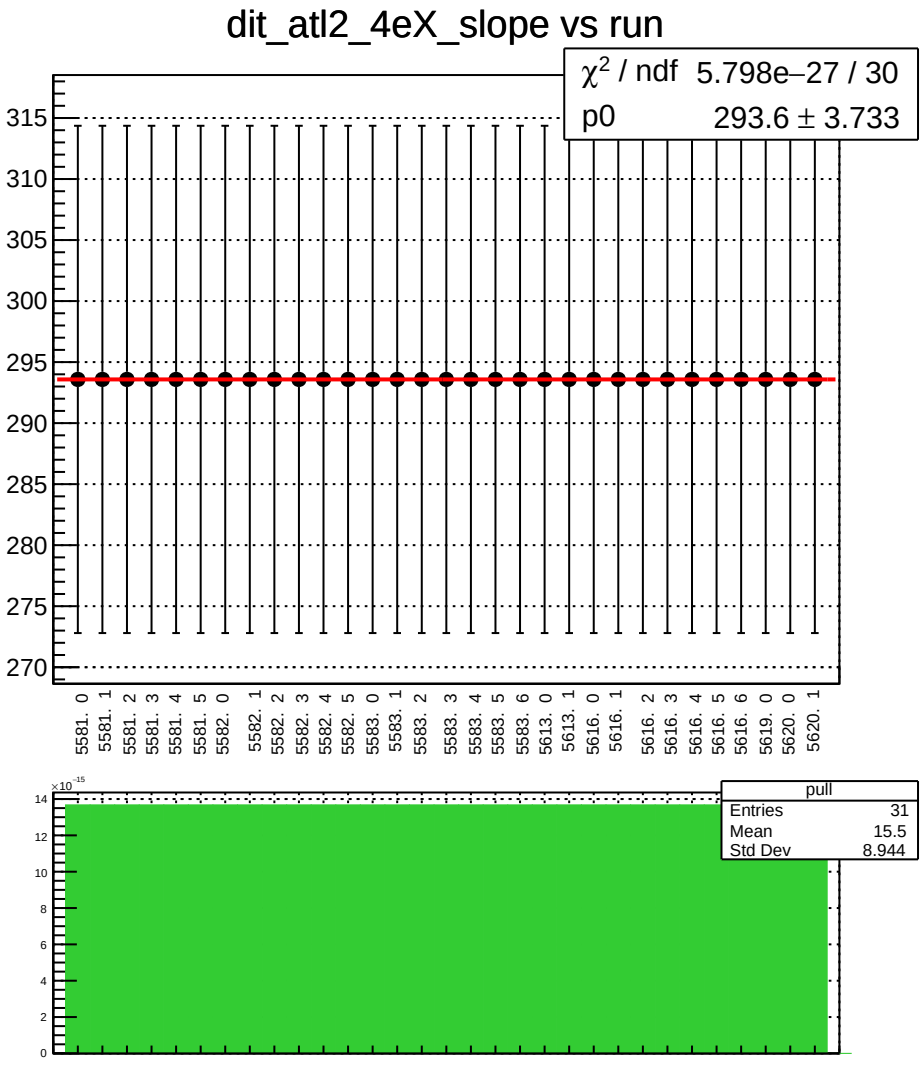

pull1D
Entries 31
Mean −3.634e−15
Std Dev1.497e−22
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

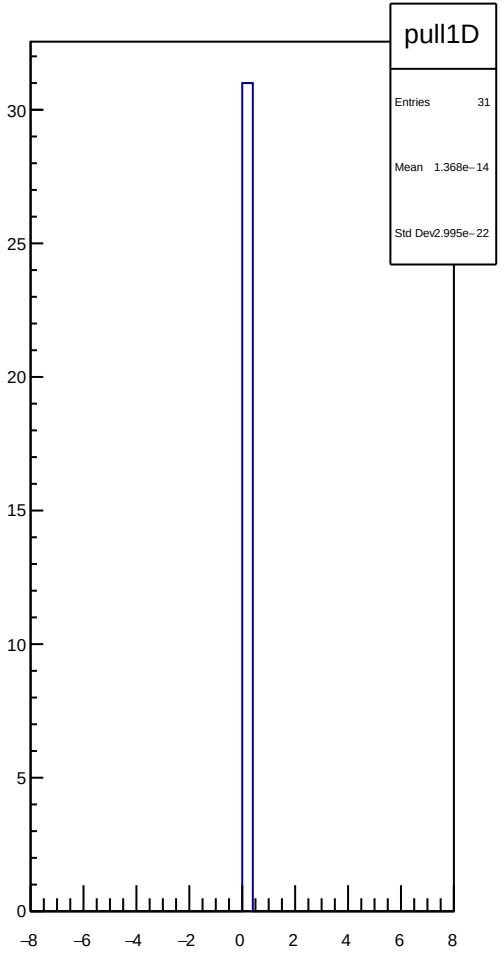

dit_atl1_4eY_slope vs run
χ² / ndf 4.972e−29 / 30
p0 −44.89 ± 2.015
−35
−40
−45
−50
−55
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
×10⁻¹⁵
1.2
1
0.8
0.6
0.4
0.2
0
pull
Entries 31
Mean 15.5
Std Dev 8.944

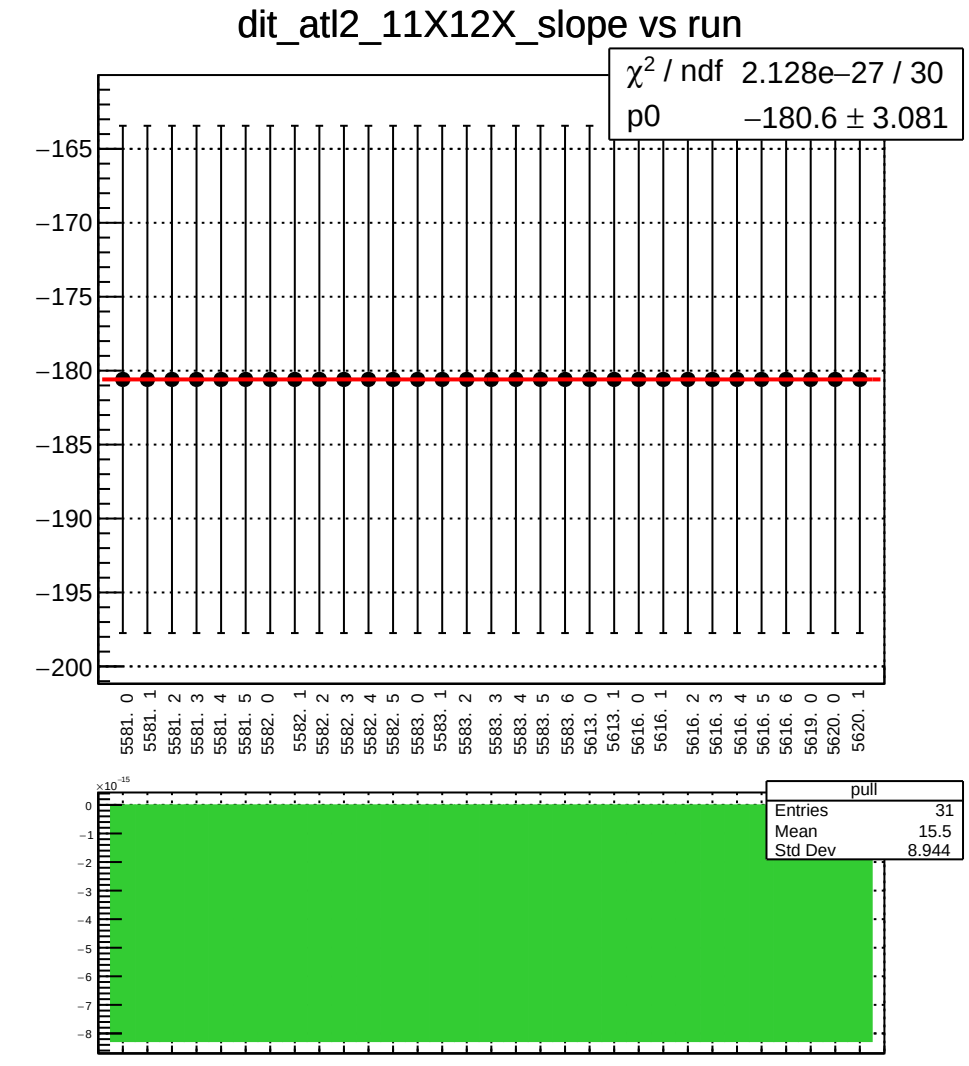

pull1D
Entries 31
Mean 1.267e−15
Std Dev 3.743e−23
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

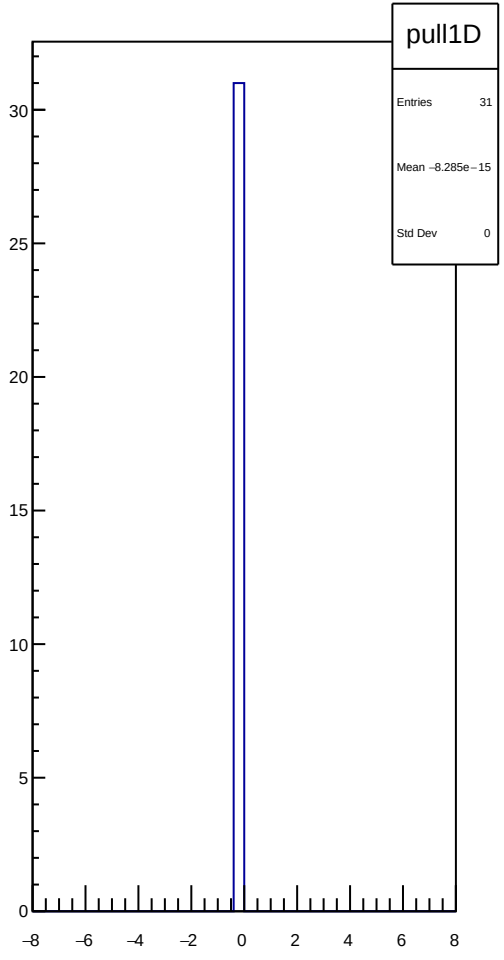

dit_atl2_4aX_slope vs run
χ² / ndf 1.212e−27 / 30
p0 −425.2 ± 6.532
−390
−400
−410
−420
−430
−440
−450
−460
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
×10⁻¹⁵
6
5
4
3
2
1
0
pull
Entries 31
Mean 15.5
Std Dev 8.944

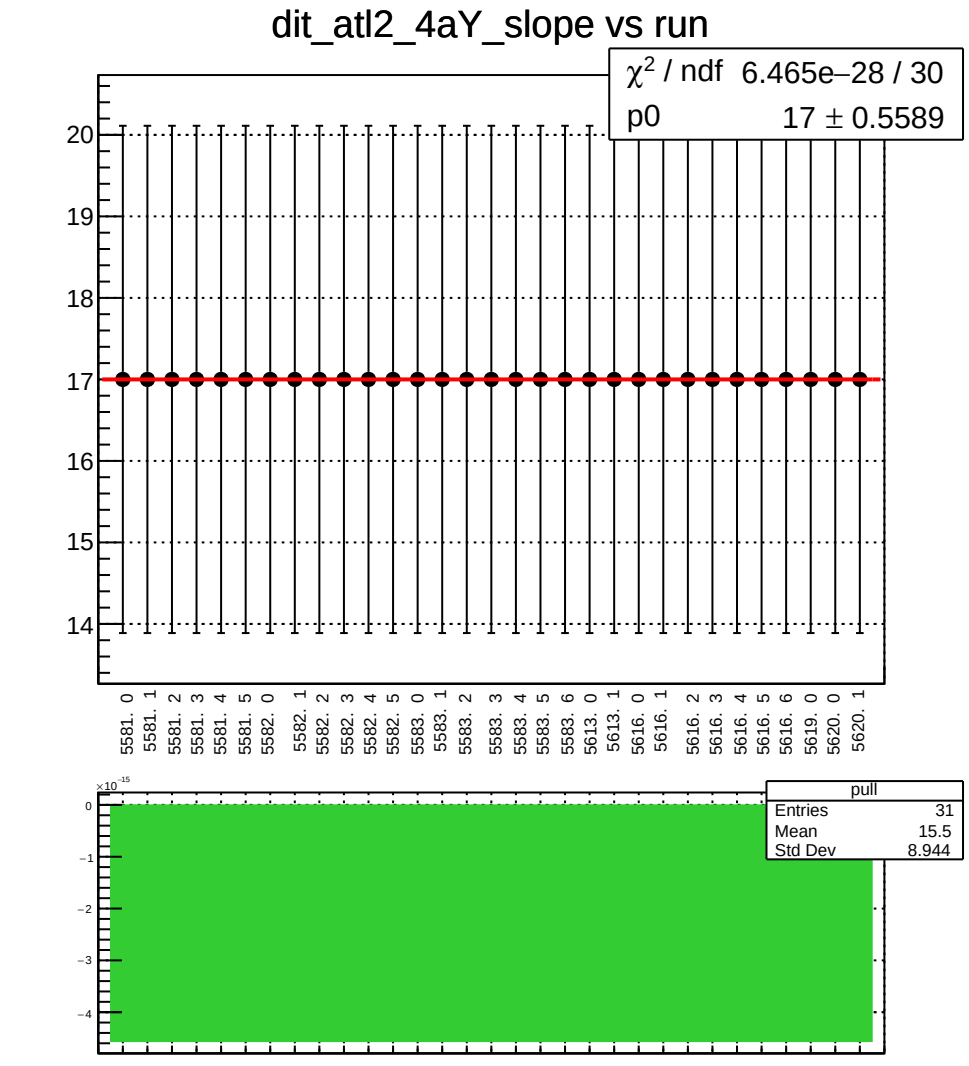

pull1D
Entries 31
Mean 6.252e−15
Std Dev1.834e−22
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

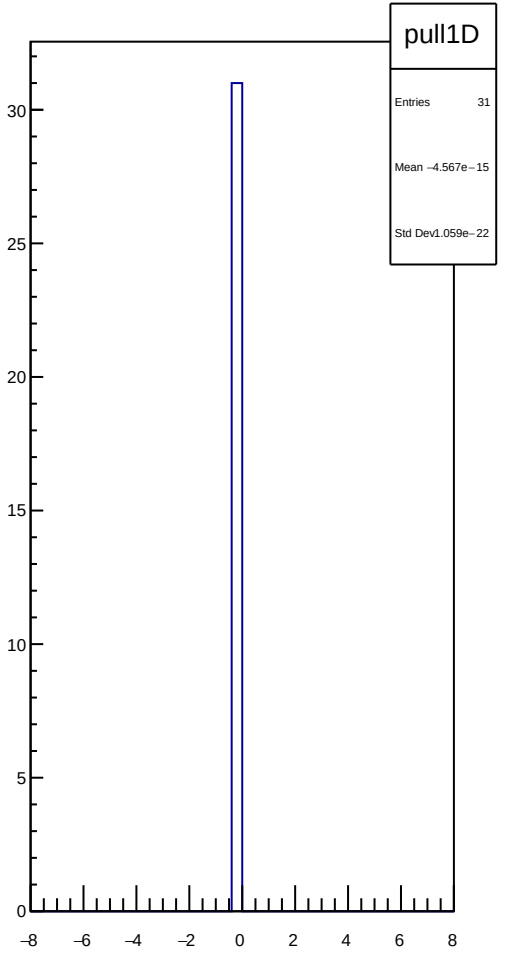

dit_atl2_4eX_slope vs run
χ² / ndf 5.798e−27 / 30
p0 293.6 ± 3.733
315
310
305
300
295
290
285
280
275
270
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
×10⁻¹⁵
14
12
10
8
6
4
2
0
pull
Entries 31
Mean 15.5
Std Dev 8.944

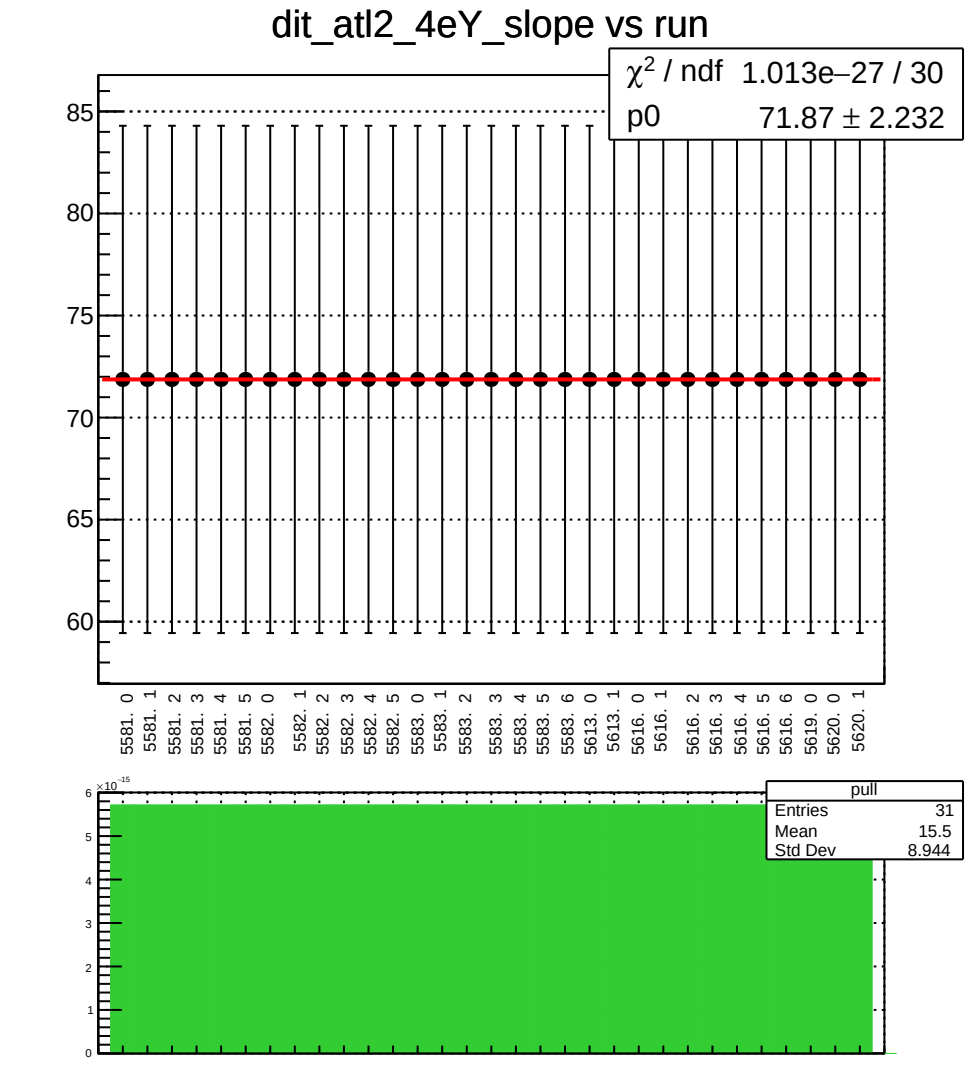

pull1D
Entries 31
Mean 1.368e−14
Std Dev 2.995e−22
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

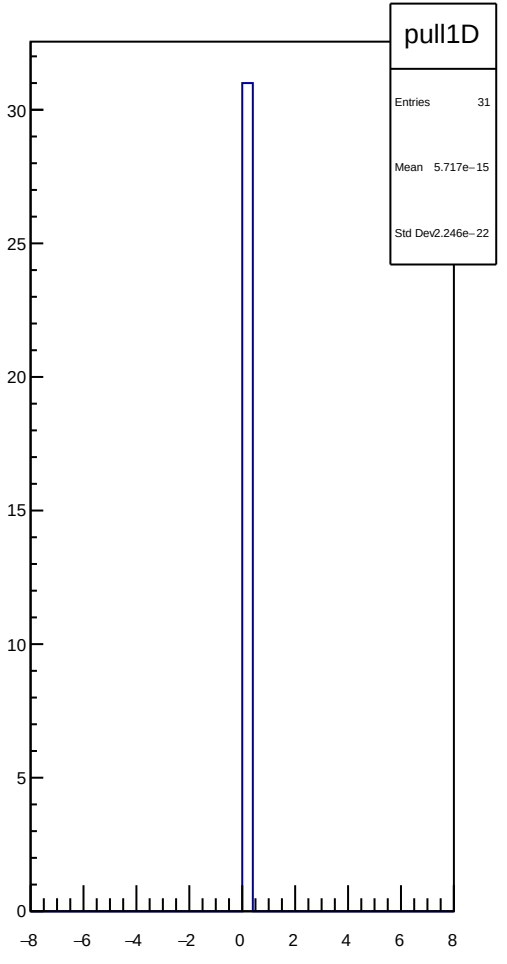

dit_atl2_11X12X_slope vs run
χ² / ndf 2.128e−27 / 30
p0 −180.6 ± 3.081
−165
−170
−175
−180
−185
−190
−195
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
×10⁻¹⁵
0
−1
−2
−3
−4
−5
−6
−7
−8
pull
Entries 31
Mean 15.5
Std Dev 8.944

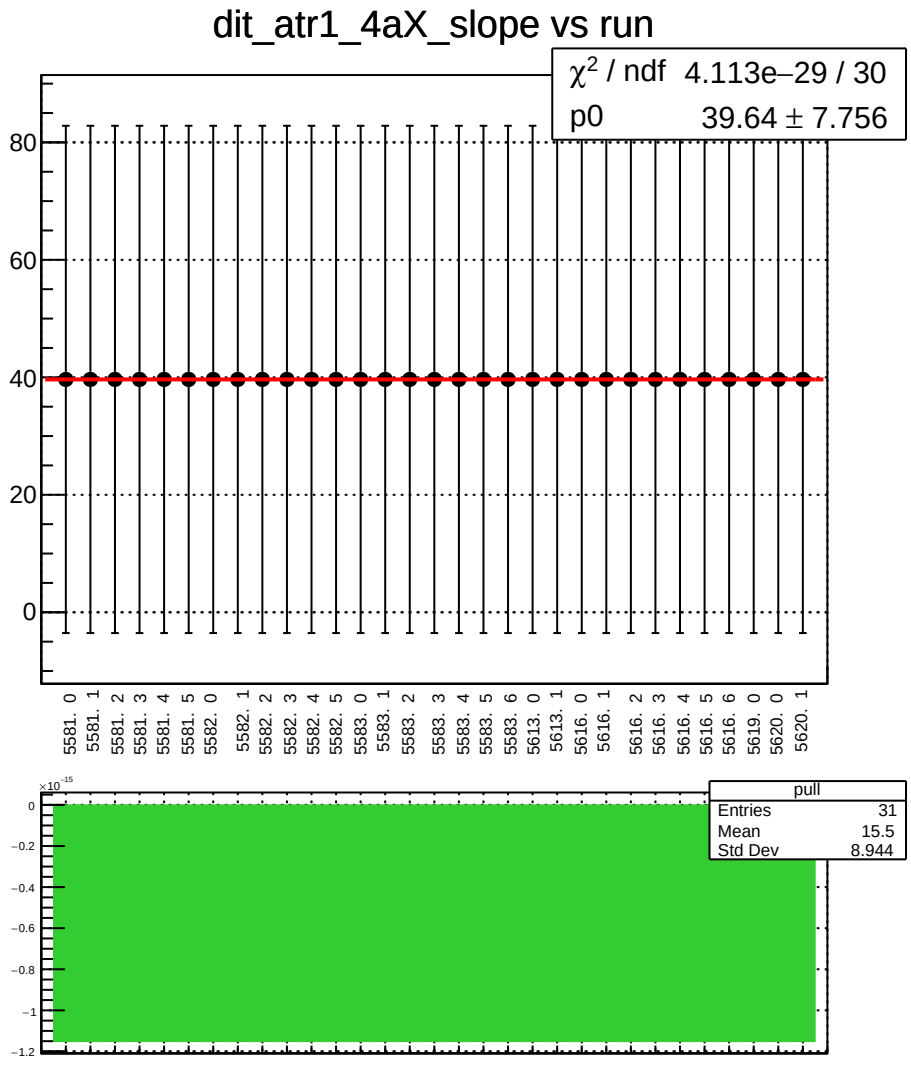

pull1D
Entries 31
Mean −8.285e−15
Std Dev 0
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

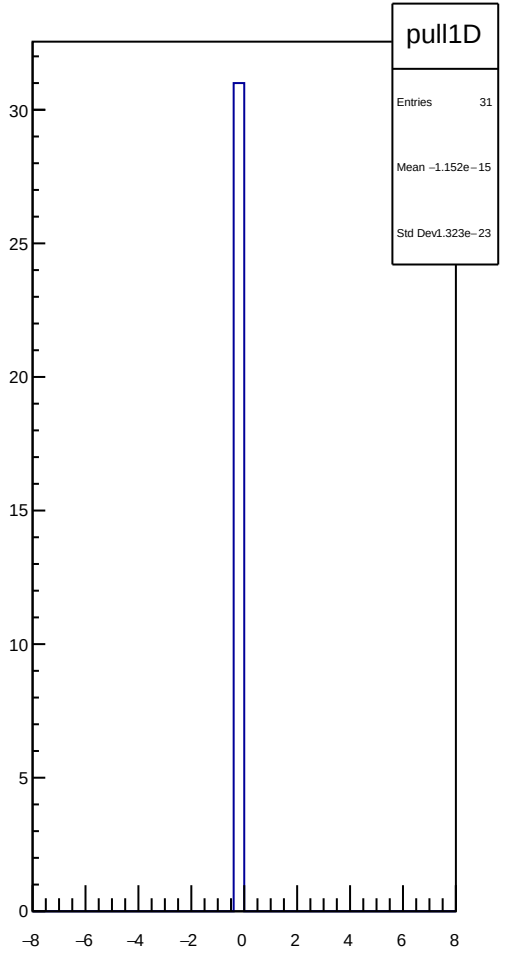

dit_atl2_4aY_slope vs run
χ² / ndf 6.465e−28 / 30
p0 17 ± 0.5589
20
19
18
17
16
15
14
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
×10⁻¹⁵
0
−1
−2
−3
−4
pull
Entries 31
Mean 15.5
Std Dev 8.944

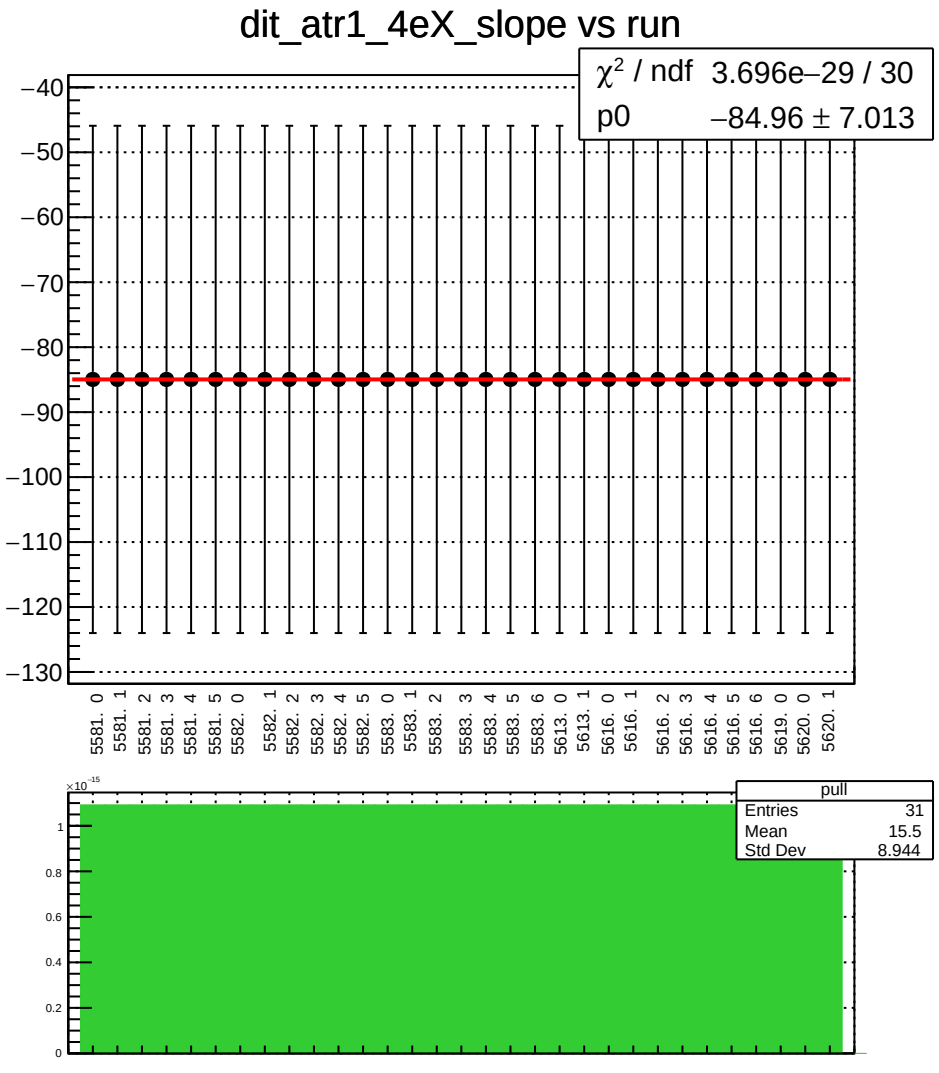

pull1D
Entries 31
Mean −4.567e−15
Std Dev1.059e−22
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

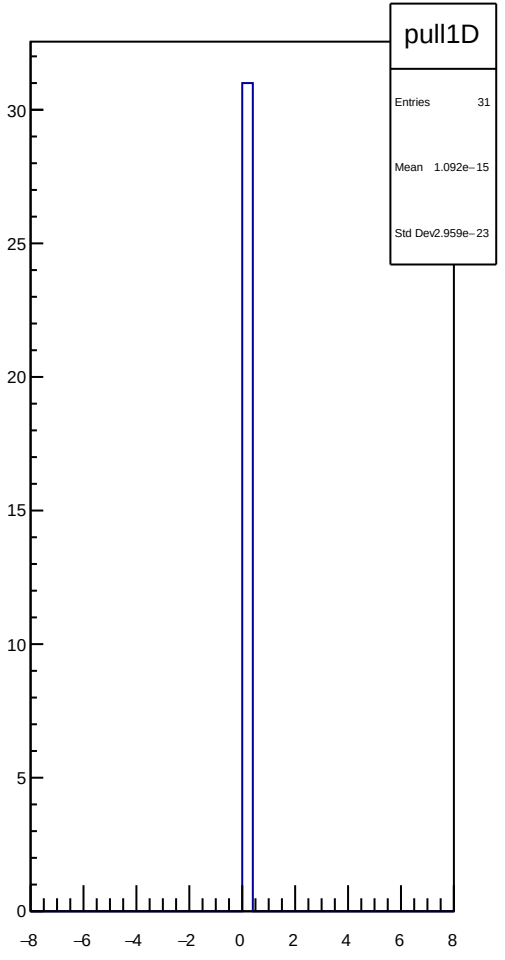

dit_atl2_4eY_slope vs run
χ² / ndf 1.013e−27 / 30
p0 71.87 ± 2.232
85
80
75
70
65
60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
×10⁻¹⁵
6
5
4
3
2
1
0
pull
Entries 31
Mean 15.5
Std Dev 8.944

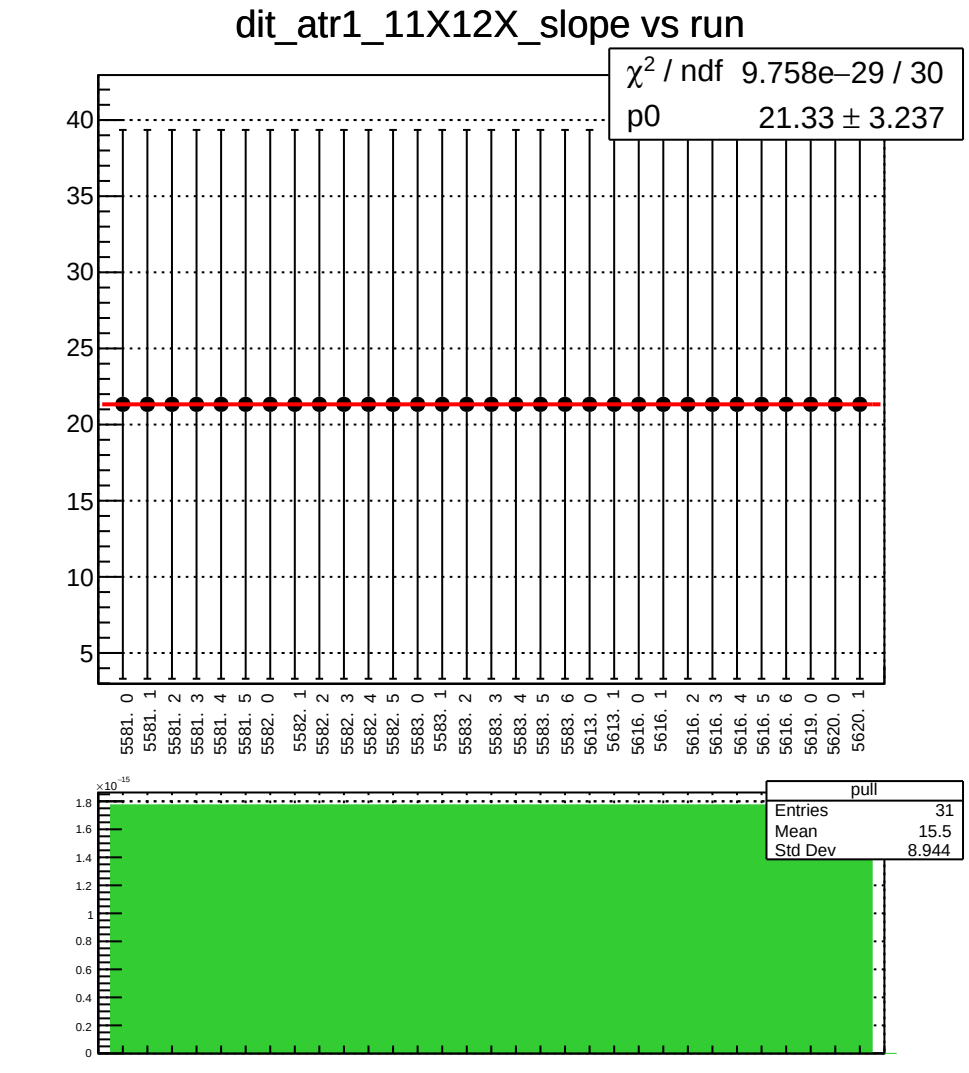

pull1D
Entries 31
Mean 5.717e−15
Std Dev 2.246e−22
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

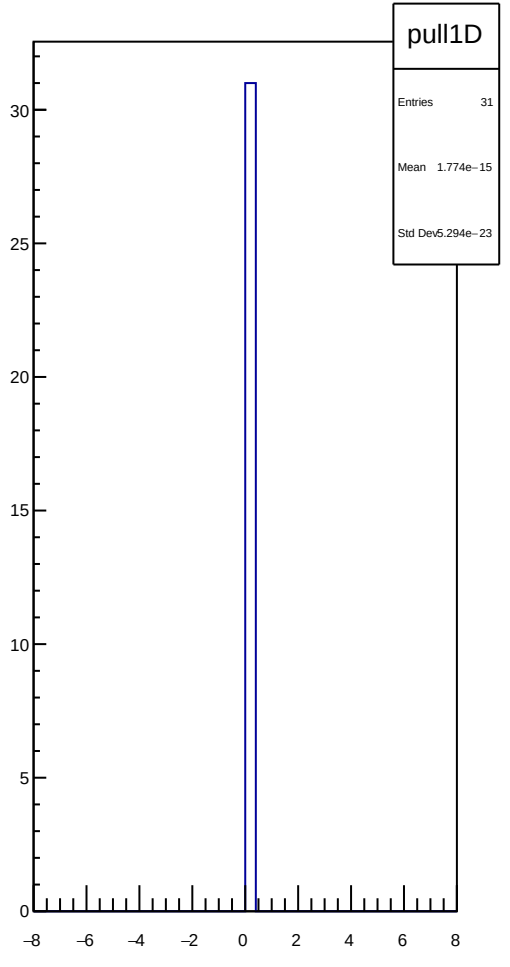

dit_atr1_4aX_slope vs run
χ² / ndf 4.113e−29 / 30
p0 39.64 ± 7.756
80
60
40
20
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
×10⁻¹⁵
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull
Entries 31
Mean 15.5
Std Dev 8.944

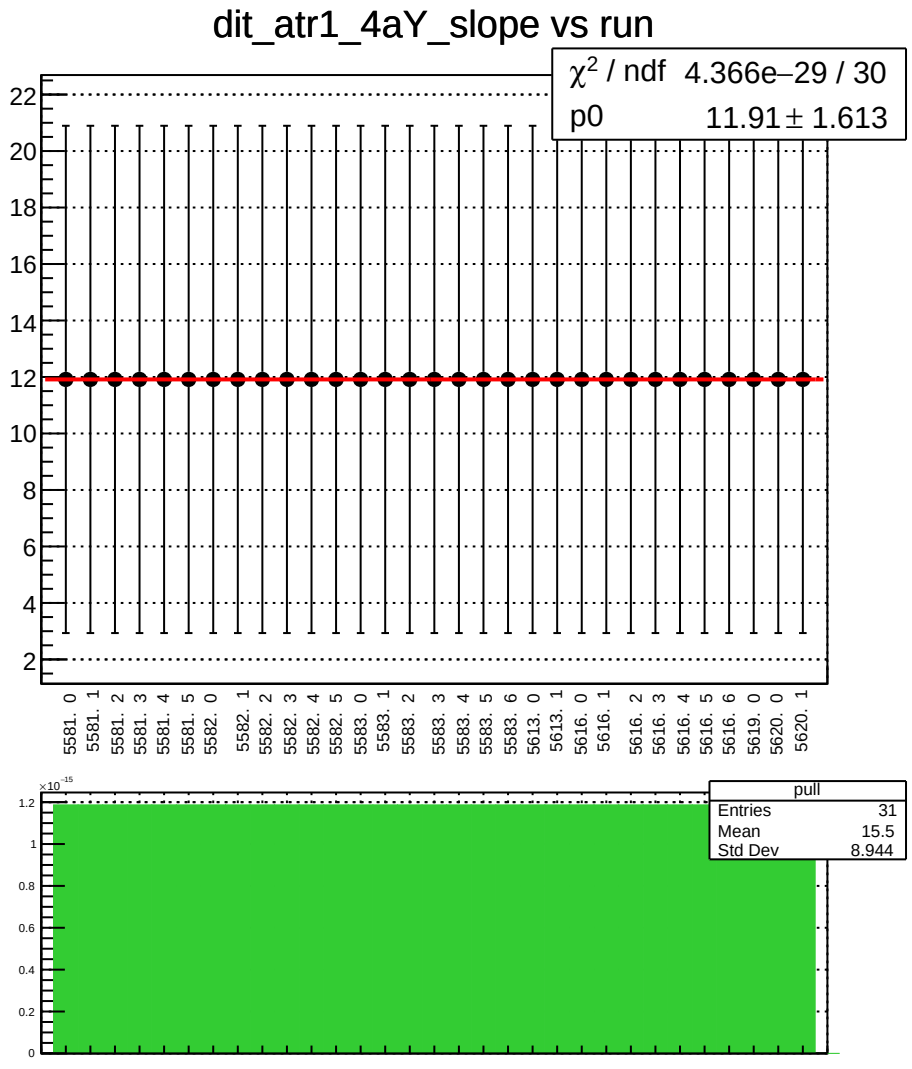

pull1D
Entries 31
Mean −1.152e−15
Std Dev1.323e−23
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

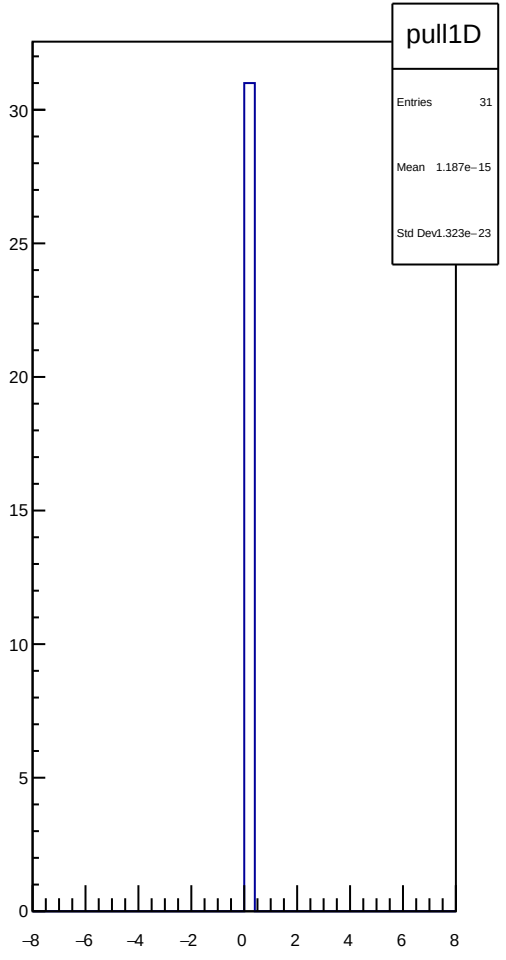

dit_atr1_4eX_slope vs run
χ² / ndf 3.696e−29 / 30
p0 −84.96 ± 7.013
−40
−50
−60
−70
−80
−90
−100
−110
−120
−130
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
×10⁻¹⁵
1
0.8
0.6
0.4
0.2
0
pull
Entries 31
Mean 15.5
Std Dev 8.944

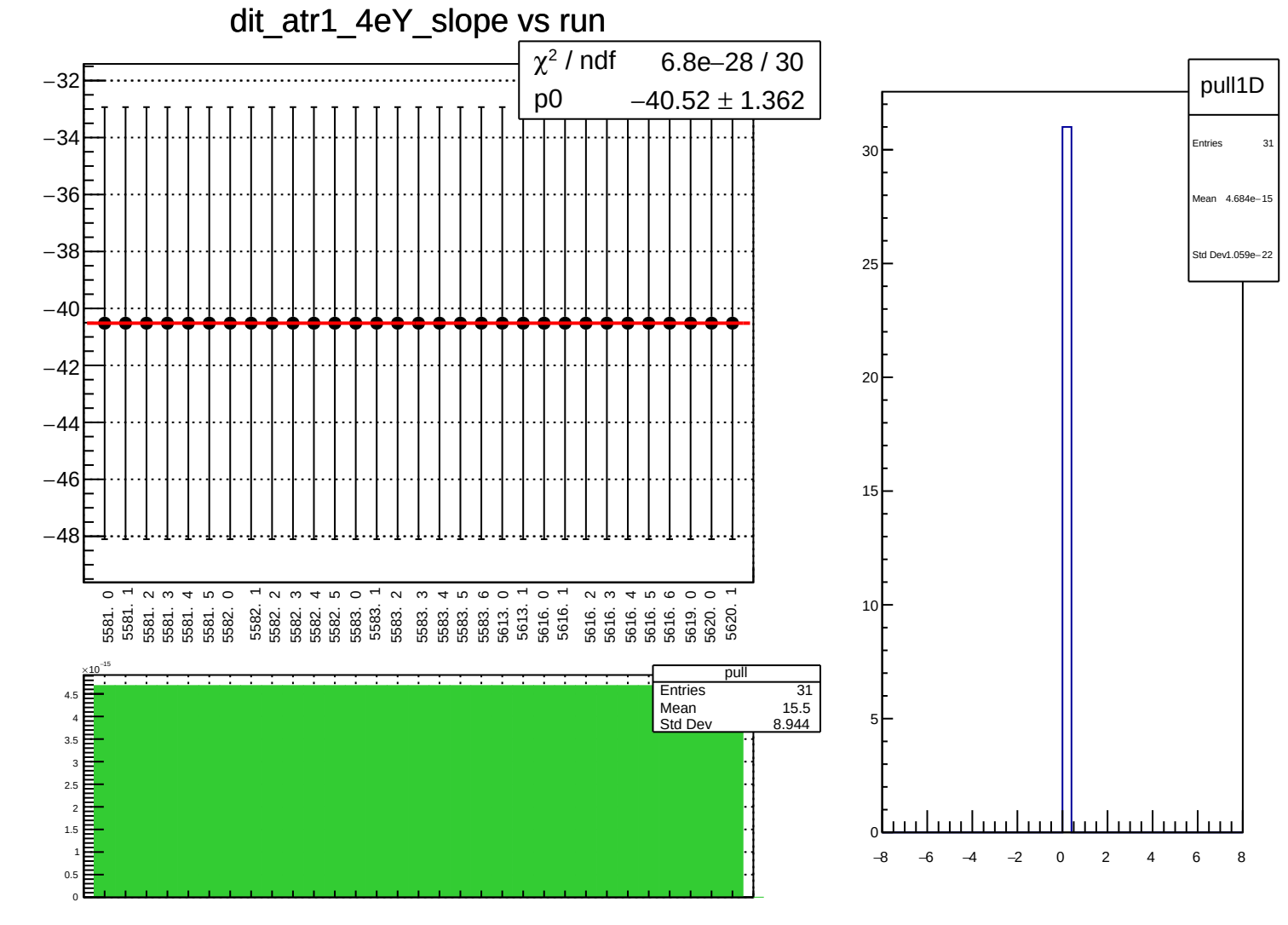

pull1D
Entries 31
Mean 1.092e−15
Std Dev2.959e−23
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

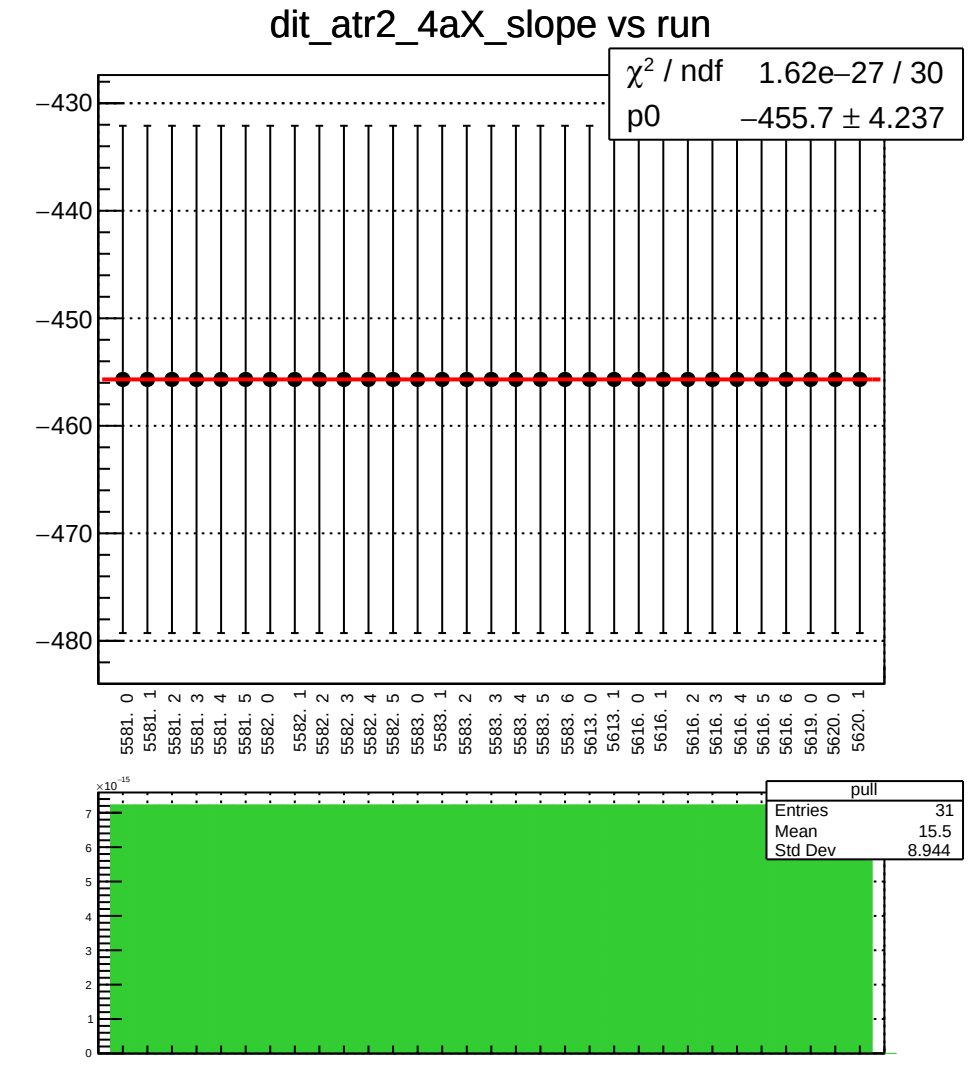

dit_atr1_11X12X_slope vs run
χ² / ndf 9.758e−29 / 30
p0 21.33 ± 3.237
40
35
30
25
20
15
10
5
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
×10⁻¹⁵
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
pull
Entries 31
Mean 15.5
Std Dev 8.944

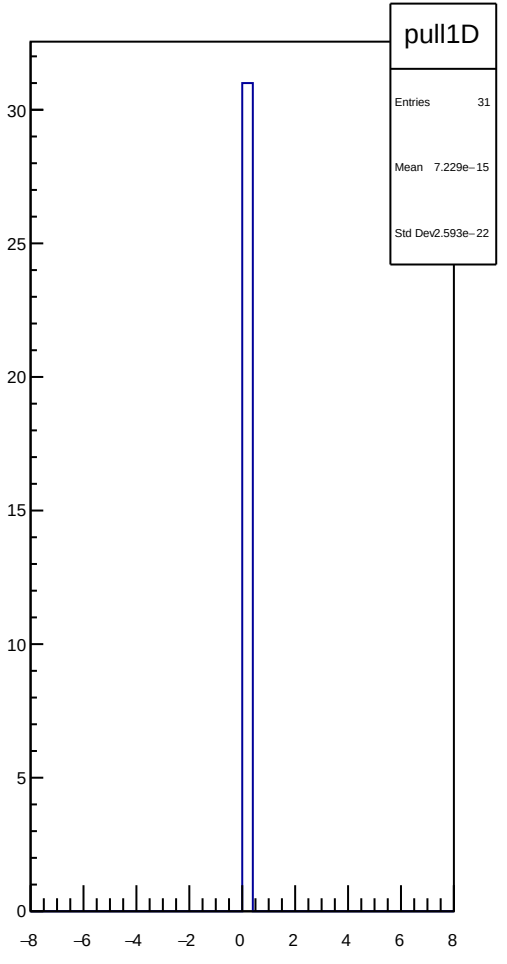

pull1D
Entries 31
Mean 1.774e−15
Std Dev 5.294e−23
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

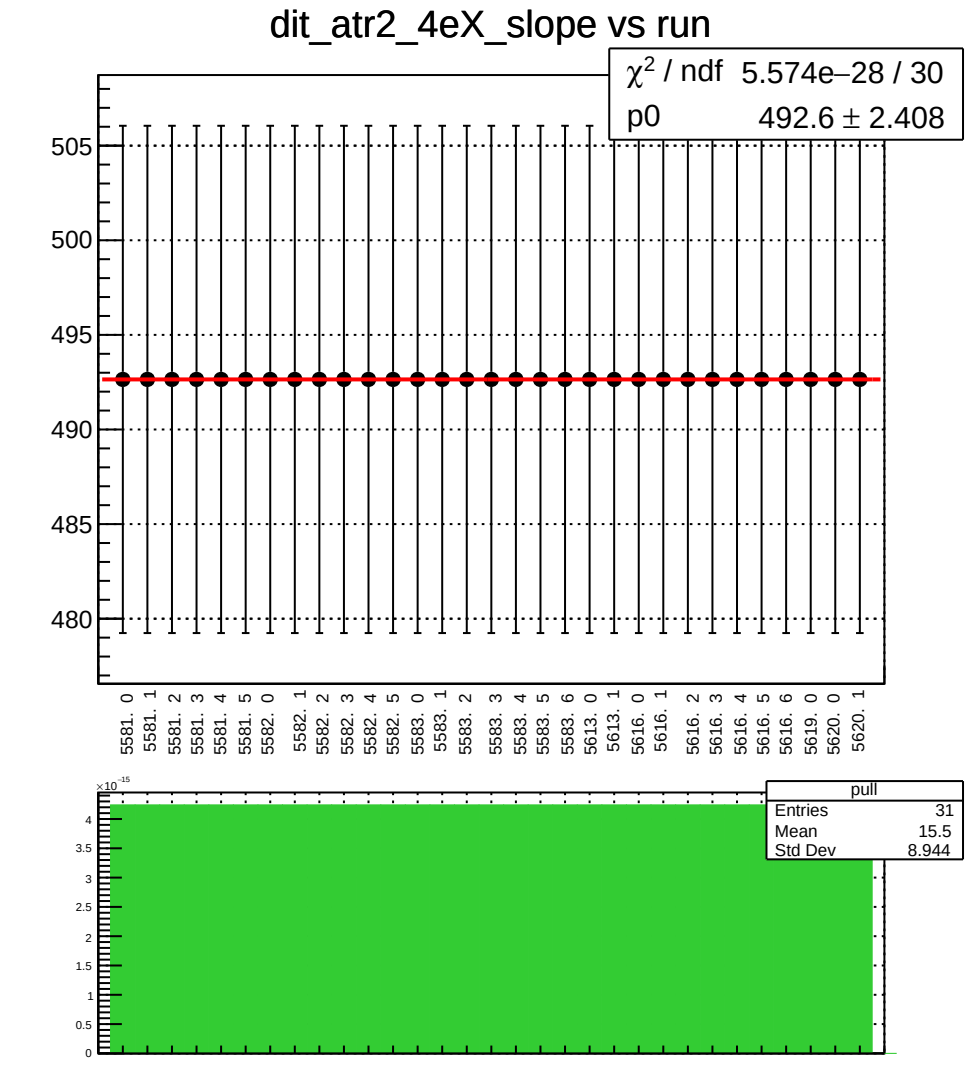

dit_atr1_4aY_slope vs run
χ² / ndf 4.366e−29 / 30
p0 11.91 ± 1.613
22
20
18
16
14
12
10
8
6
4
2
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
×10⁻¹⁵
1.2
1
0.8
0.6
0.4
0.2
0
pull
Entries 31
Mean 15.5
Std Dev 8.944

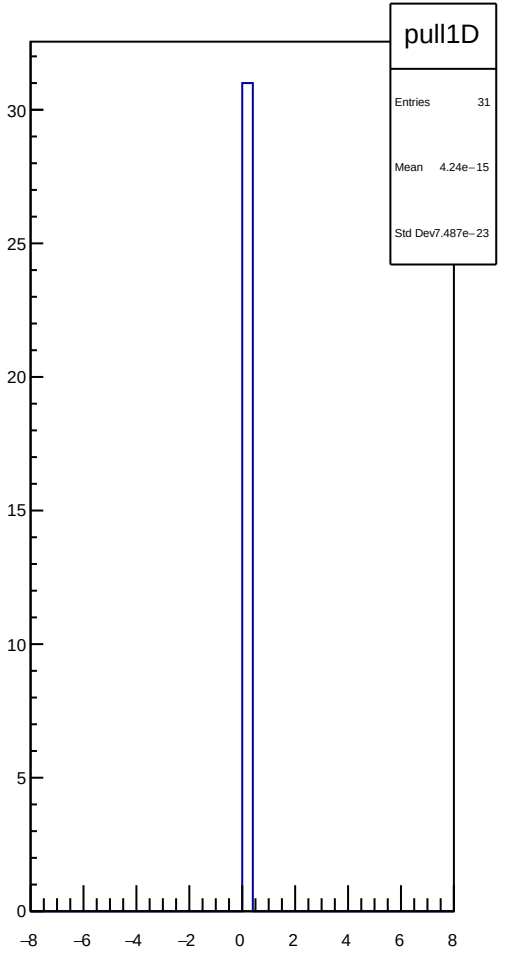

pull1D
Entries 31
Mean 1.187e−15
Std Dev1.323e−23
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

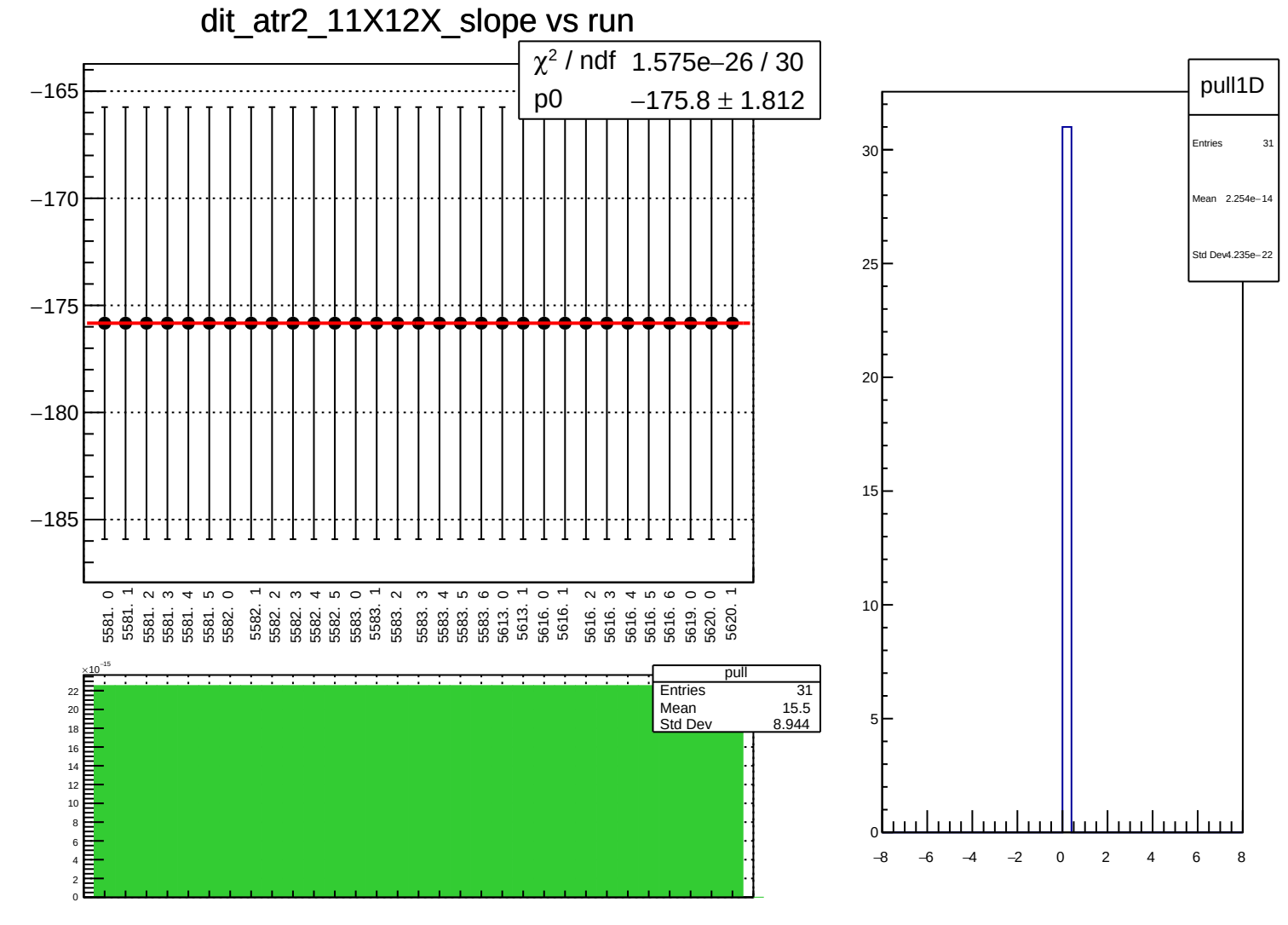

dit_atr1_4eY_slope vs run
χ² / ndf 6.8e−28 / 30
p0 −40.52 ± 1.362
−32
−34
−36
−38
−40
−42
−44
−46
−48
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
×10⁻¹⁵
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
pull
Entries 31
Mean 15.5
Std Dev 8.944
pull1D
Entries 31
Mean 4.684e−15
Std Dev1.059e−22
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

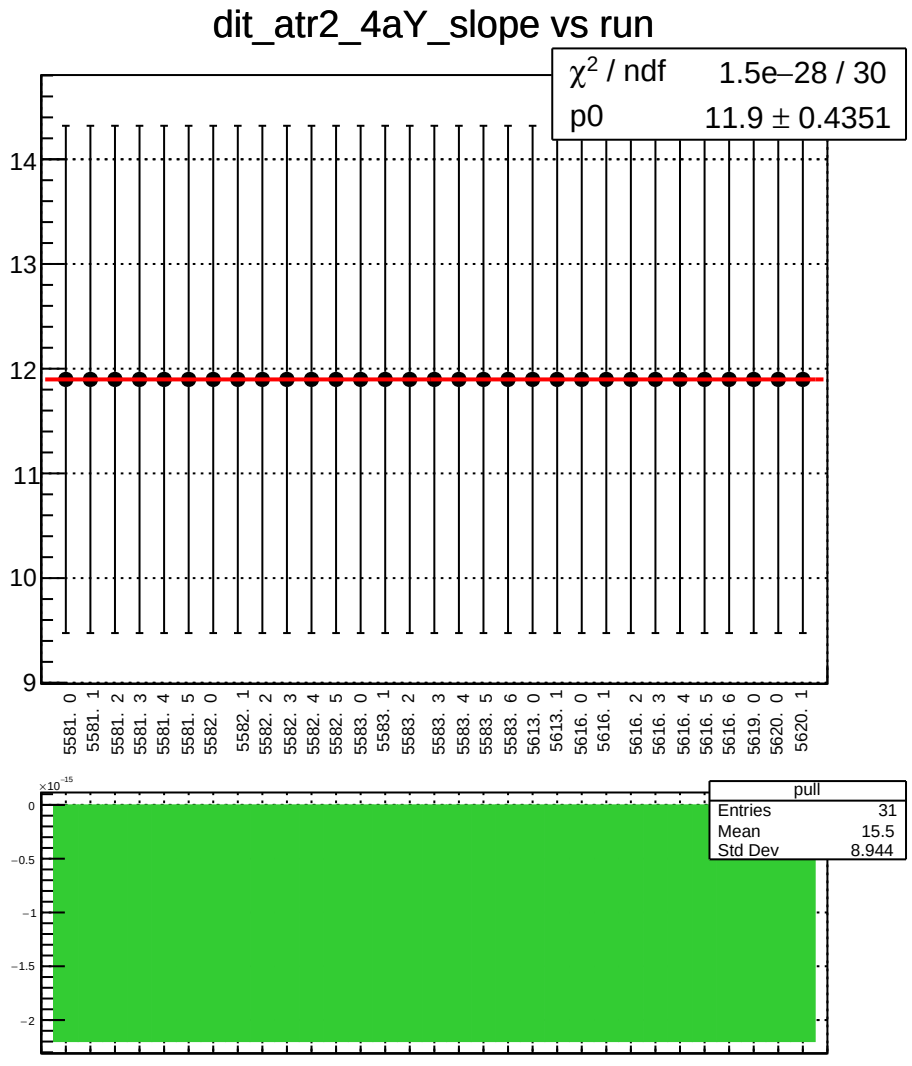

dit_atr2_4aX_slope vs run
χ² / ndf 1.62e−27 / 30
p0 −455.7 ± 4.237
−430
−440
−450
−460
−470
−480
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
×10⁻¹⁵
pull
Entries 31
Mean 15.5
Std Dev 8.944

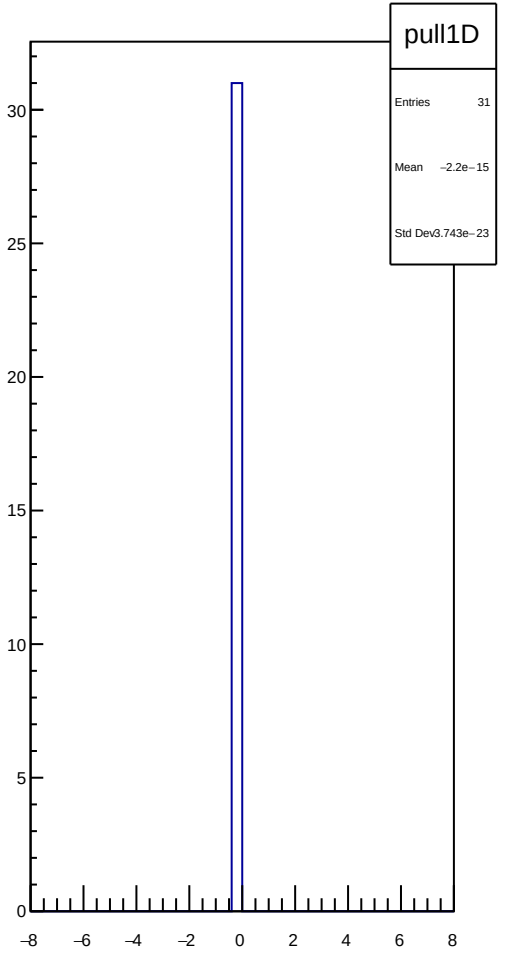

pull1D
Entries 31
Mean 7.229e−15
Std Dev 2.593e−22

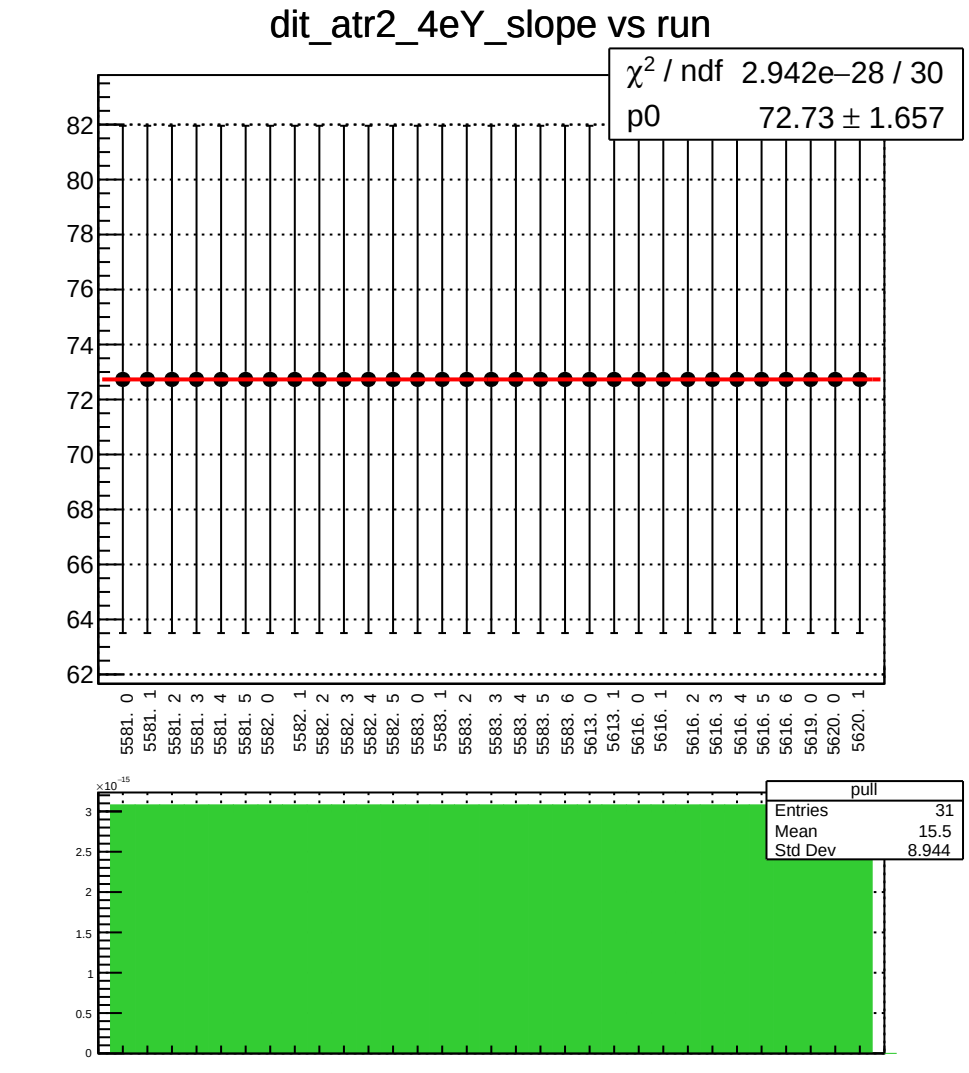

dit_atr2_4eX_slope vs run
χ² / ndf 5.574e−28 / 30
p0 492.6 ± 2.408
505
500
495
490
485
480
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
×10⁻¹⁵
4
3.5
3
2.5
2
1.5
1
0.5
0
pull
Entries 31
Mean 15.5
Std Dev 8.944

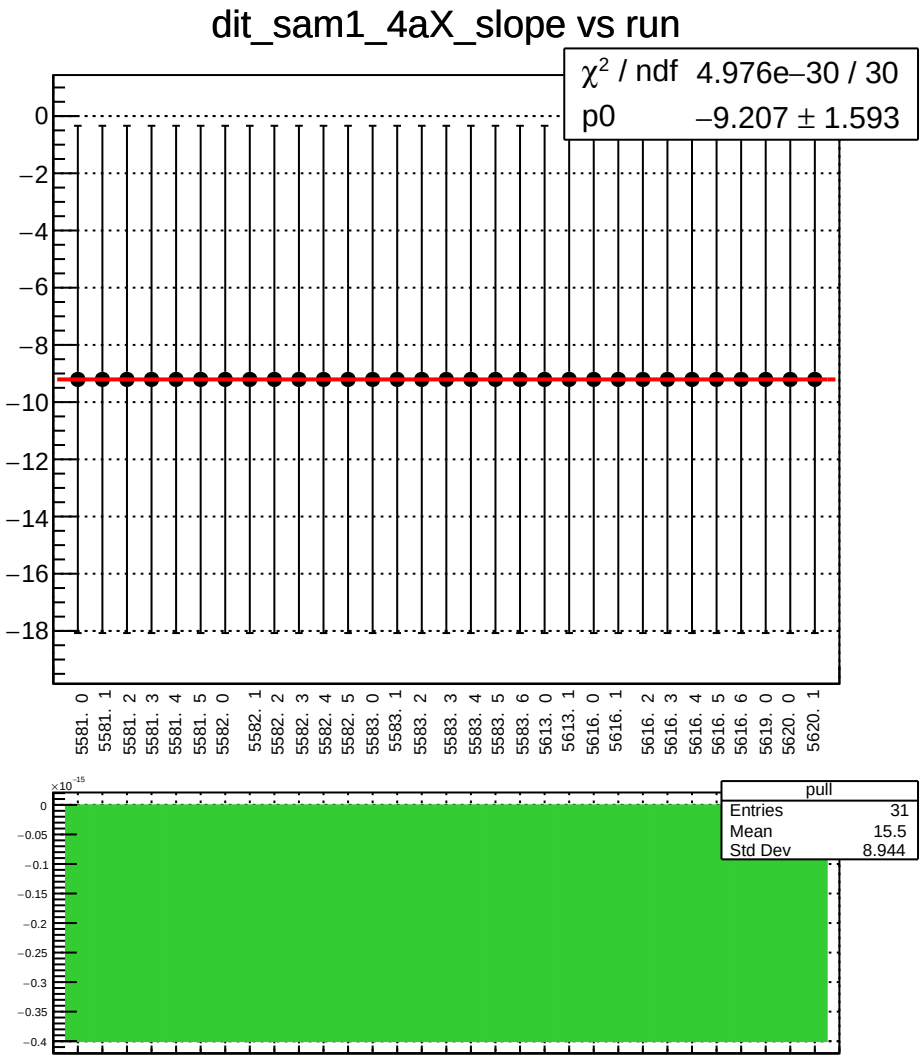

pull1D
Entries 31
Mean 4.24e−15
Std Dev7.487e−23
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

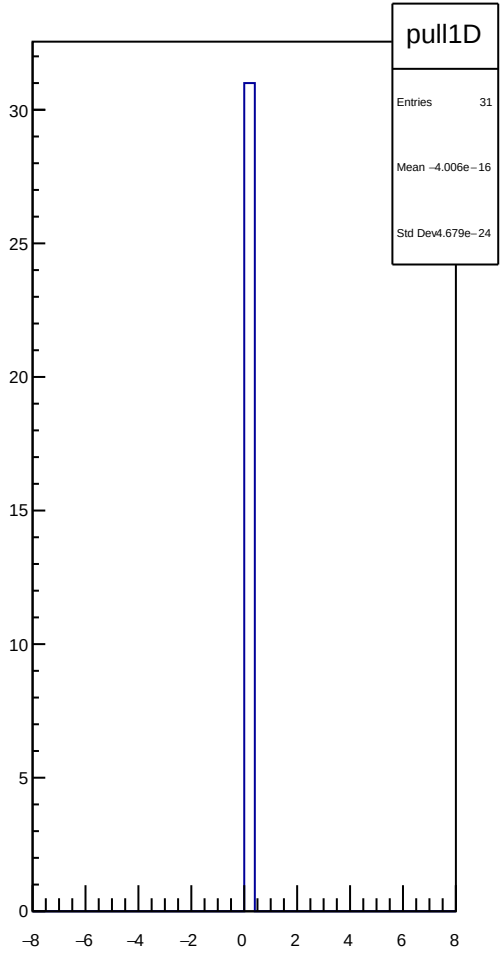

dit_atr2_11X12X_slope vs run
χ² / ndf 1.575e−26 / 30
p0 −175.8 ± 1.812
−165
−170
−175
−180
−185
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
×10⁻¹⁵
22
20
18
16
14
12
10
8
6
4
2
0
pull
Entries 31
Mean 15.5
Std Dev 8.944
pull1D
Entries 31
Mean 2.254e−14
Std Dev4.235e−22
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

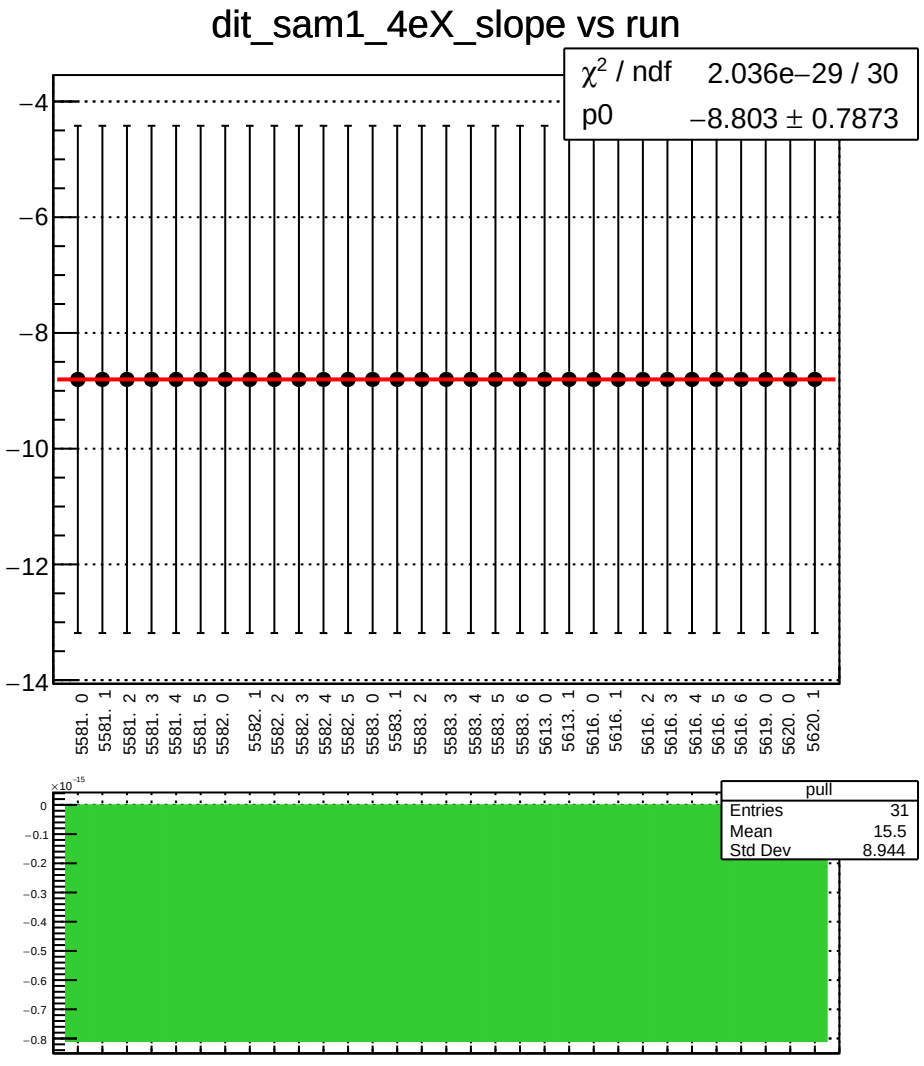

dit_atr2_4aY_slope vs run
χ² / ndf 1.5e−28 / 30
p0 11.9 ± 0.4351
14
13
12
11
10
9
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
×10⁻¹⁵
0
−0.5
−1
−1.5
−2
pull
Entries 31
Mean 15.5
Std Dev 8.944

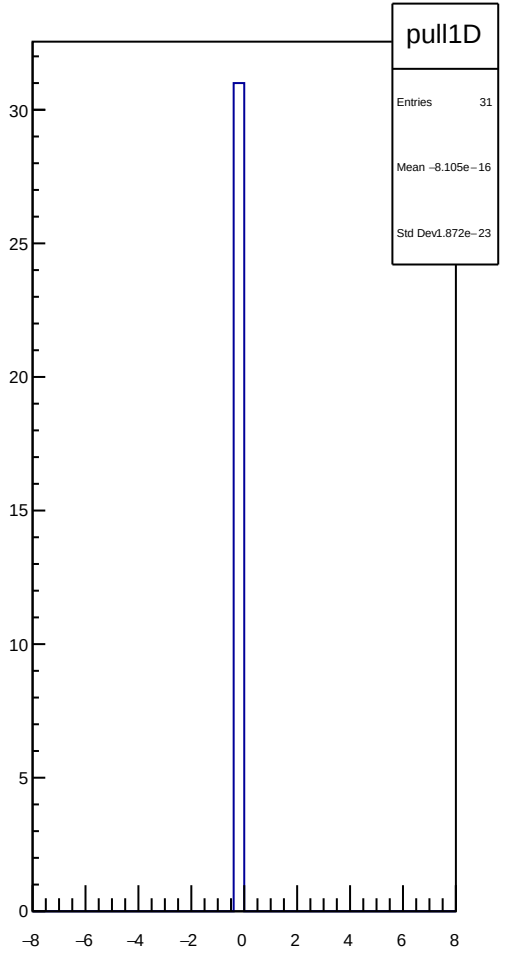

pull1D
Entries 31
Mean −2.2e−15
Std Dev 3.743e−23
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

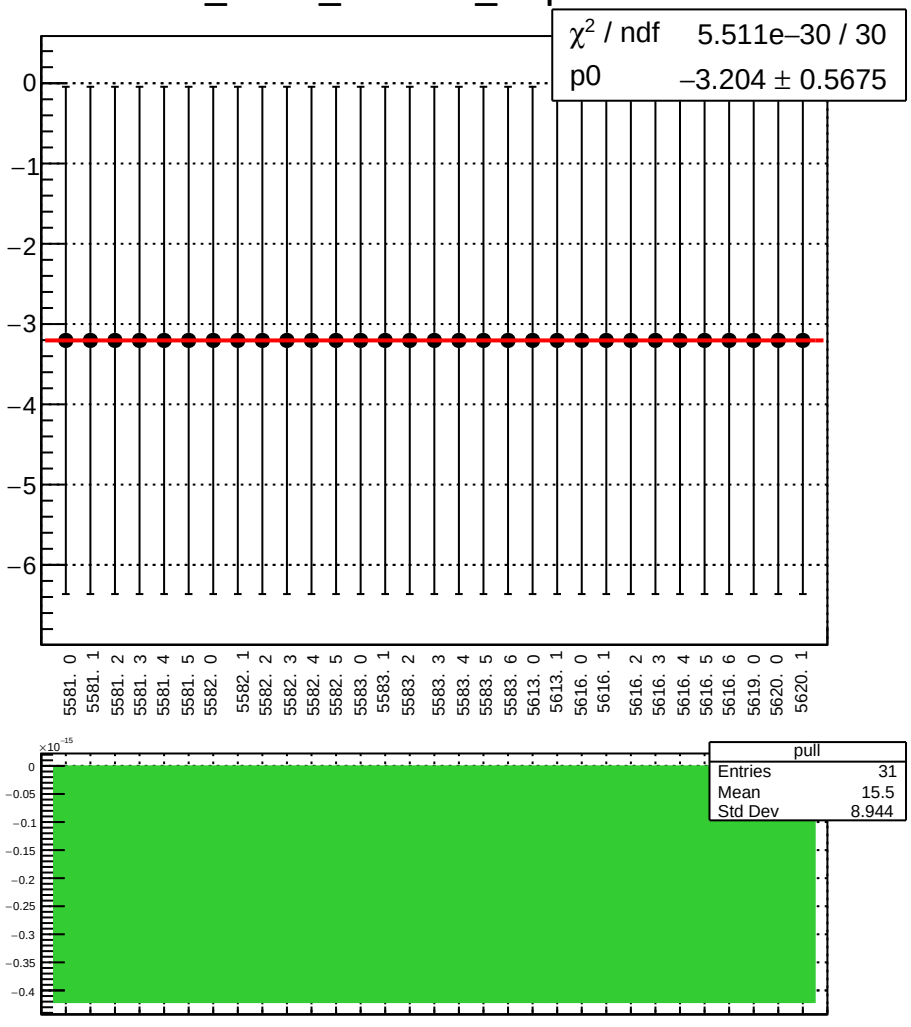

dit_atr2_4eY_slope vs run
χ² / ndf 2.942e−28 / 30
p0 72.73 ± 1.657
82
80
78
76
74
72
70
68
66
64
62
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
×10⁻¹⁵
3
2.5
2
1.5
1
0.5
0
pull
Entries 31
Mean 15.5
Std Dev 8.944
pull1D
Entries 31
Mean 3.081e−15
Std Dev9.169e−23
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

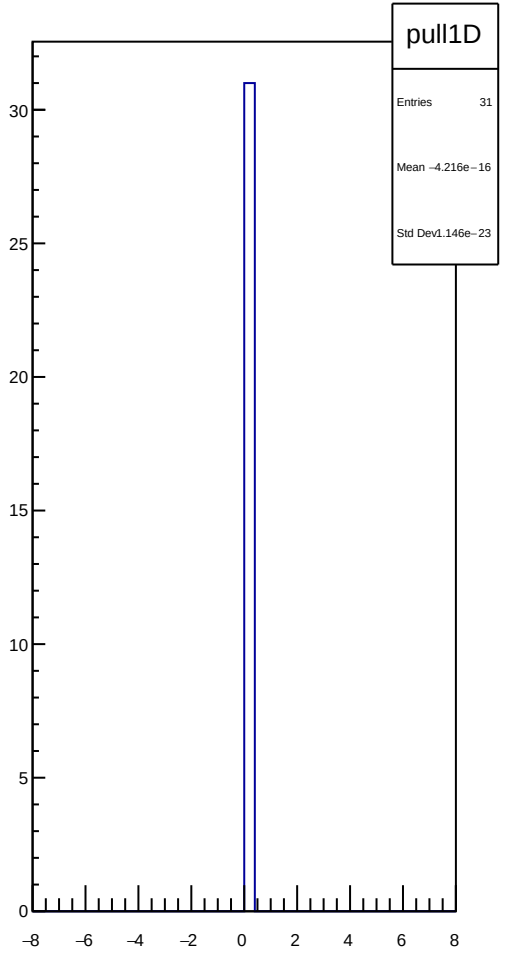

dit_sam1_4aX_slope vs run
χ² / ndf 4.976e−30 / 30
p0 −9.207 ± 1.593
0
−2
−4
−6
−8
−10
−12
−14
−16
−18
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
×10⁻¹⁵
0
−0.05
−0.1
−0.15
−0.2
−0.25
−0.3
−0.35
−0.4
pull
Entries 31
Mean 15.5
Std Dev 8.944

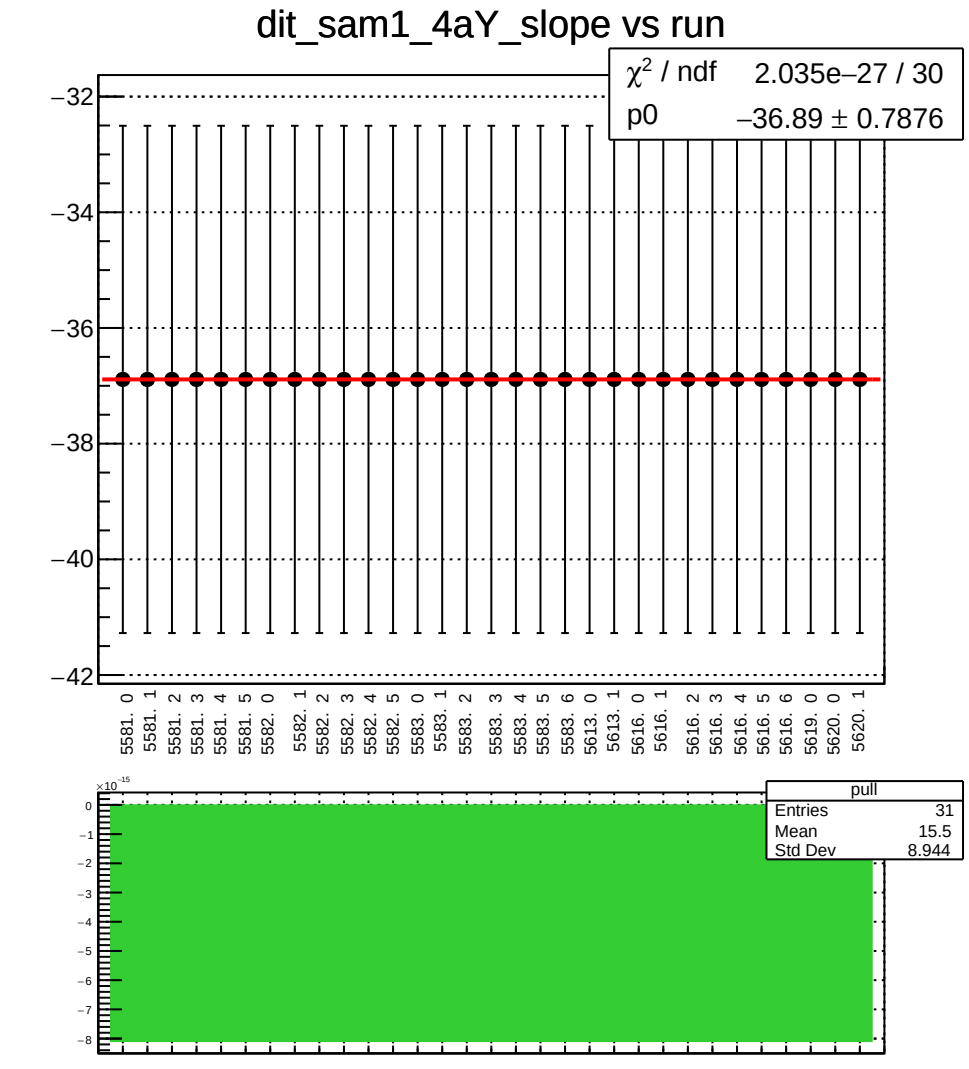

pull1D
Entries 31
Mean −4.006e−16
Std Dev 4.679e−24
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

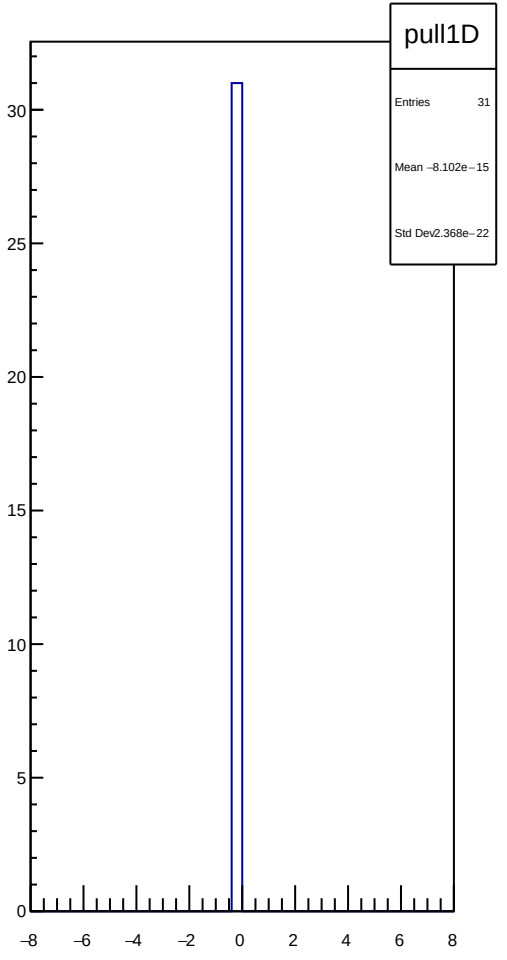

dit_sam1_4eX_slope vs run
χ² / ndf 2.036e−29 / 30
p0 −8.803 ± 0.7873
−4
−6
−8
−10
−12
−14
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
×10⁻¹⁵
0
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
−0.8
pull
Entries 31
Mean 15.5
Std Dev 8.944

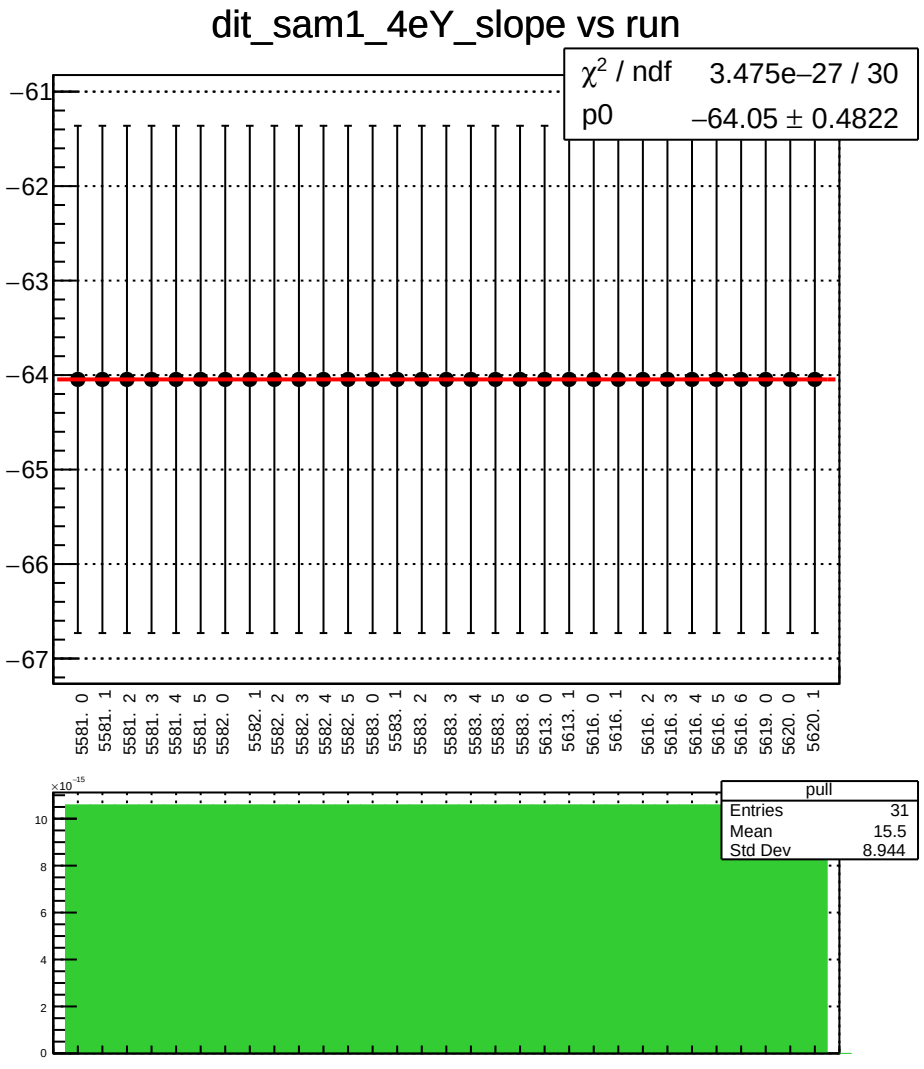

pull1D
Entries 31
Mean −8.105e−16
Std Dev1.872e−23
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

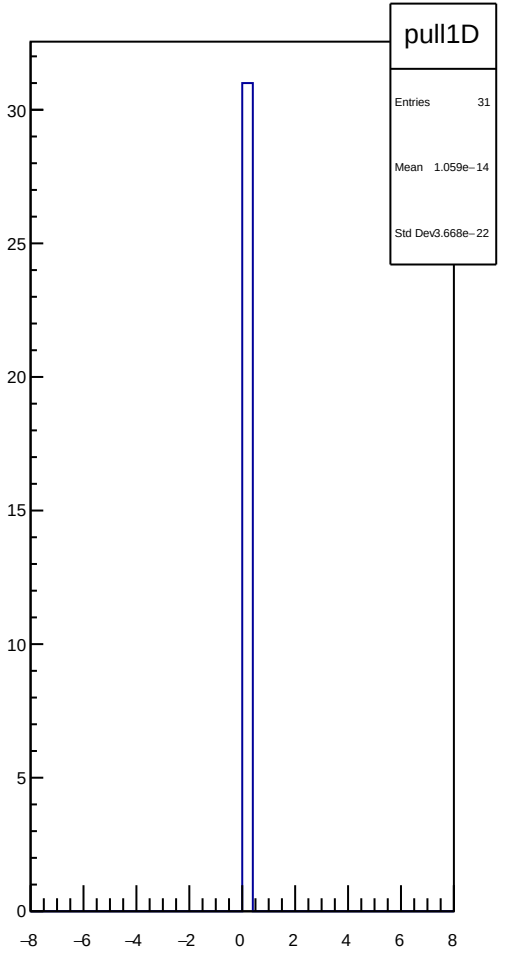

dit_sam1_11X12X_slope vs run
χ² / ndf 5.511e−30 / 30
p0 −3.204 ± 0.5675
0
−1
−2
−3
−4
−5
−6
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
×10⁻¹⁵
0
−0.05
−0.1
−0.15
−0.2
−0.25
−0.3
−0.35
−0.4
pull
Entries 31
Mean 15.5
Std Dev 8.944

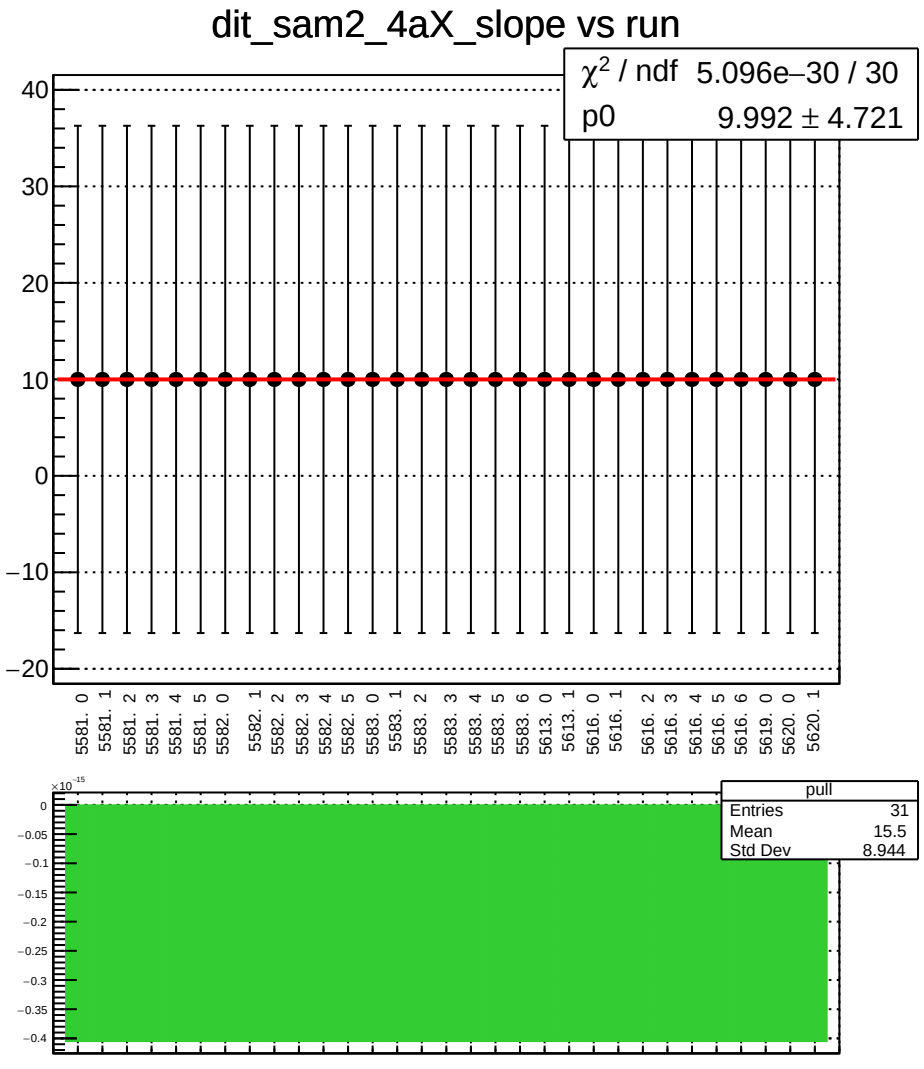

pull1D
Entries 31
Mean −4.216e−16
Std Dev1.146e−23
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

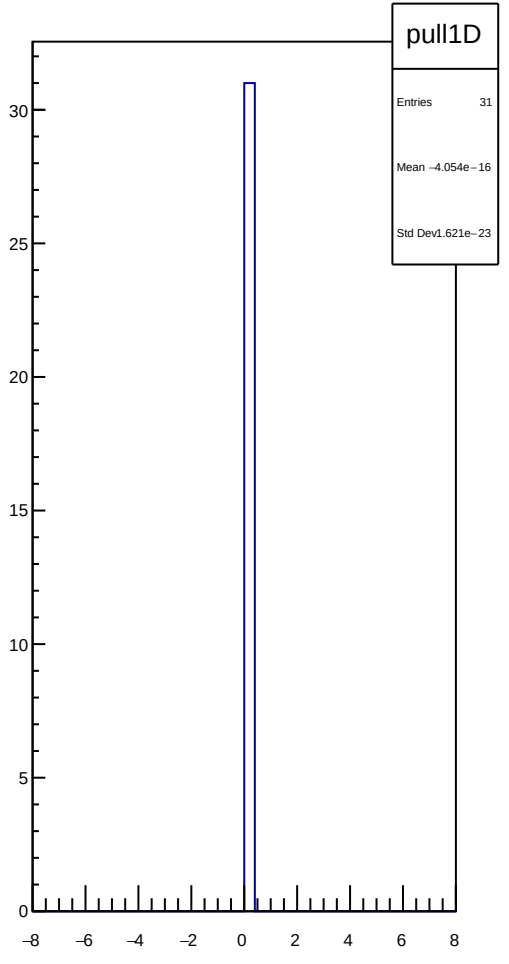

dit_sam1_4aY_slope vs run
χ² / ndf 2.035e−27 / 30
p0 −36.89 ± 0.7876
−32
−34
−36
−38
−40
−42
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
×10⁻¹⁵
pull
Entries 31
Mean 15.5
Std Dev 8.944

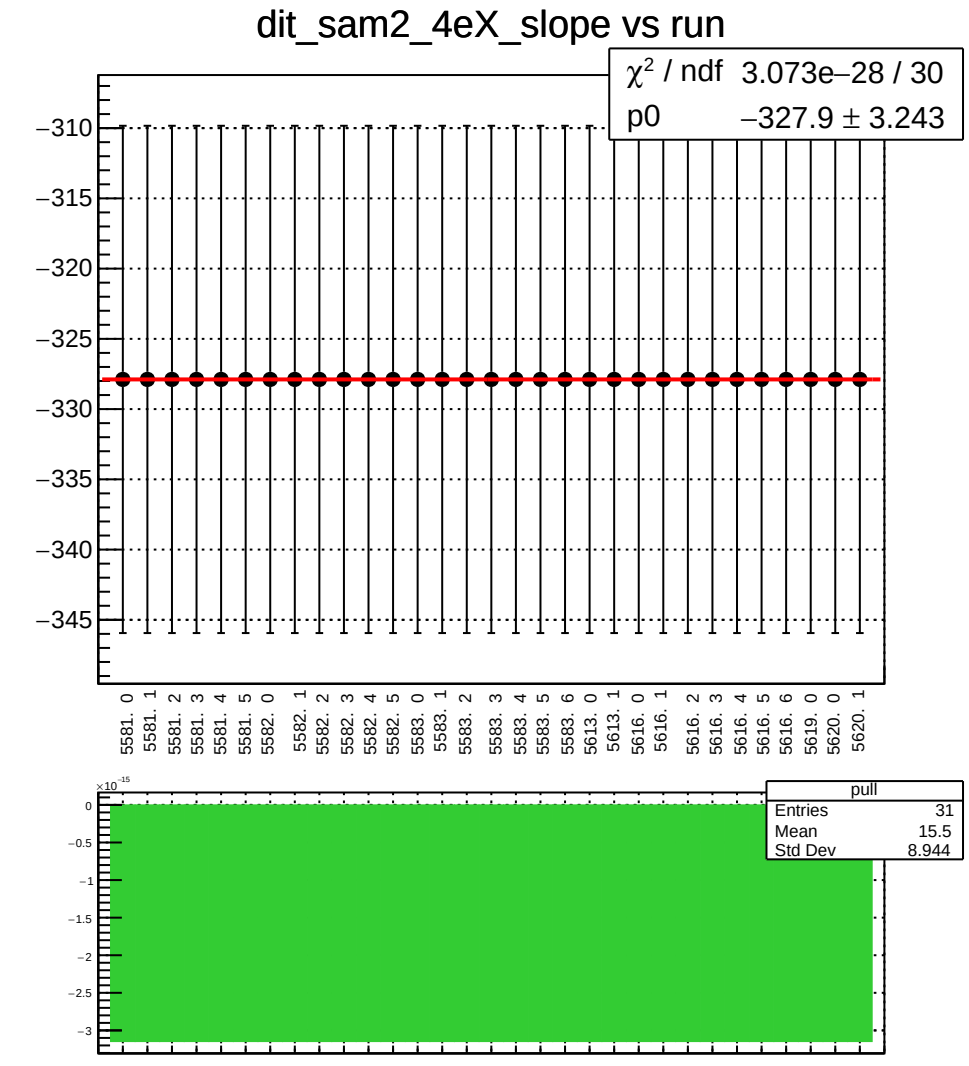

pull1D
Entries 31
Mean −8.102e−15
Std Dev 2.368e−22
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

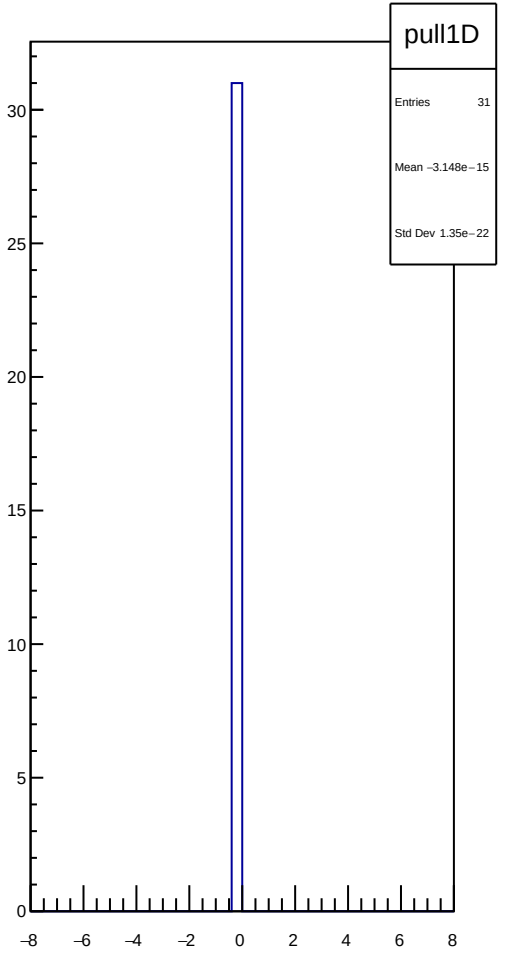

dit_sam1_4eY_slope vs run
χ² / ndf 3.475e−27 / 30
p0 −64.05 ± 0.4822
−61
−62
−63
−64
−65
−66
−67
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
×10⁻¹⁵
10
8
6
4
2
0
pull
Entries 31
Mean 15.5
Std Dev 8.944

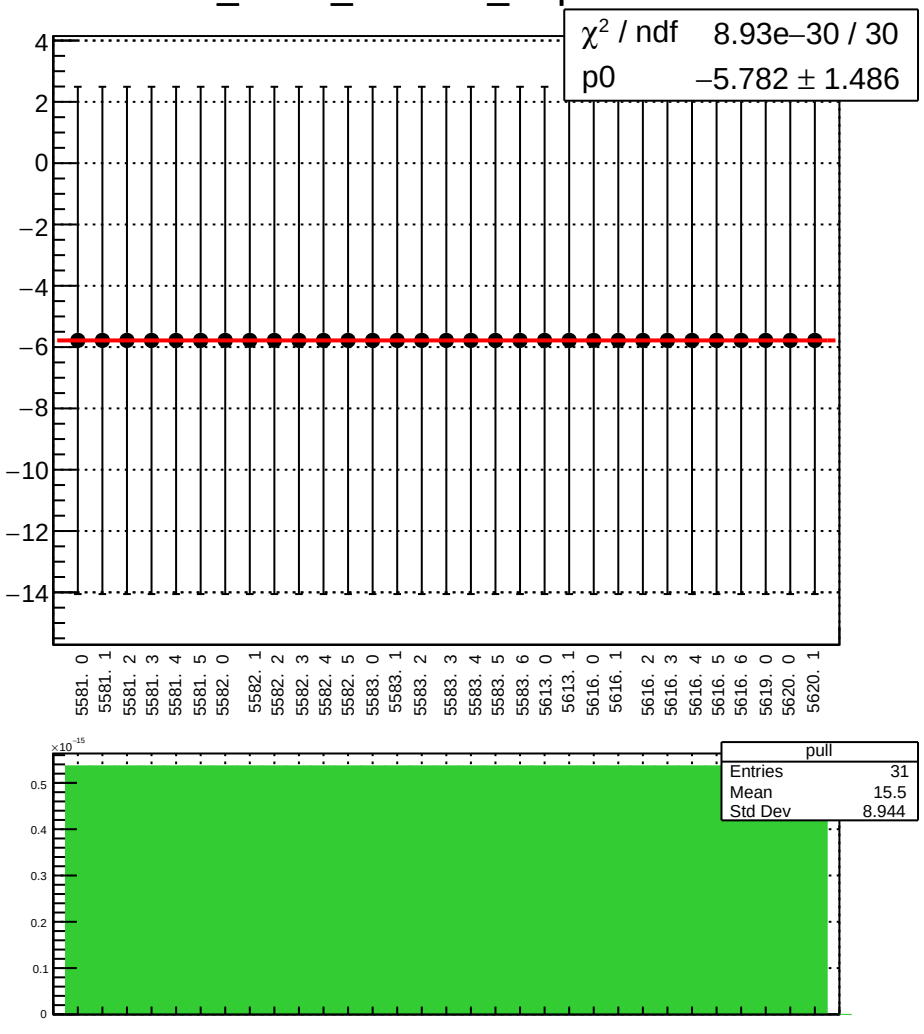

pull1D
Entries 31
Mean 1.059e−14
Std Dev3.668e−22
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

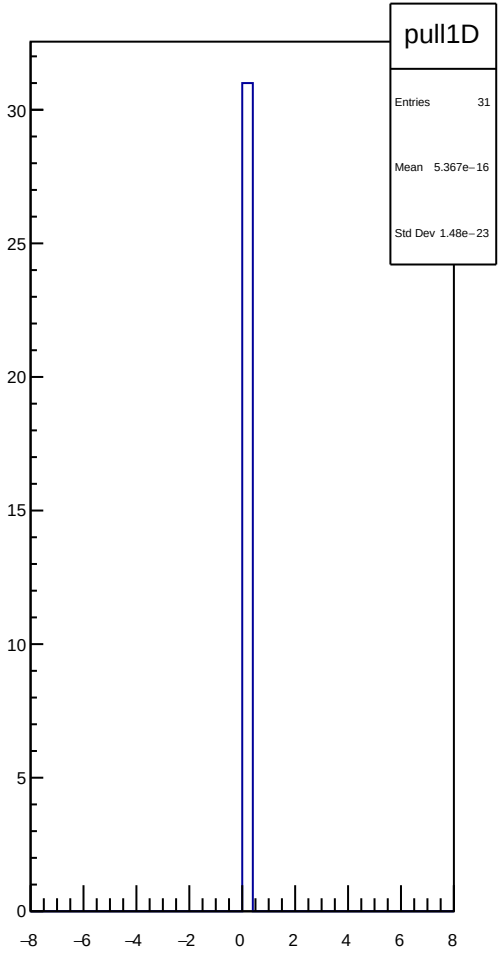

dit_sam2_4aX_slope vs run
χ² / ndf 5.096e−30 / 30
p0 9.992 ± 4.721
40
30
20
10
0
−10
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
×10⁻¹⁵
0
−0.05
−0.1
−0.15
−0.2
−0.25
−0.3
−0.35
−0.4
pull
Entries 31
Mean 15.5
Std Dev 8.944

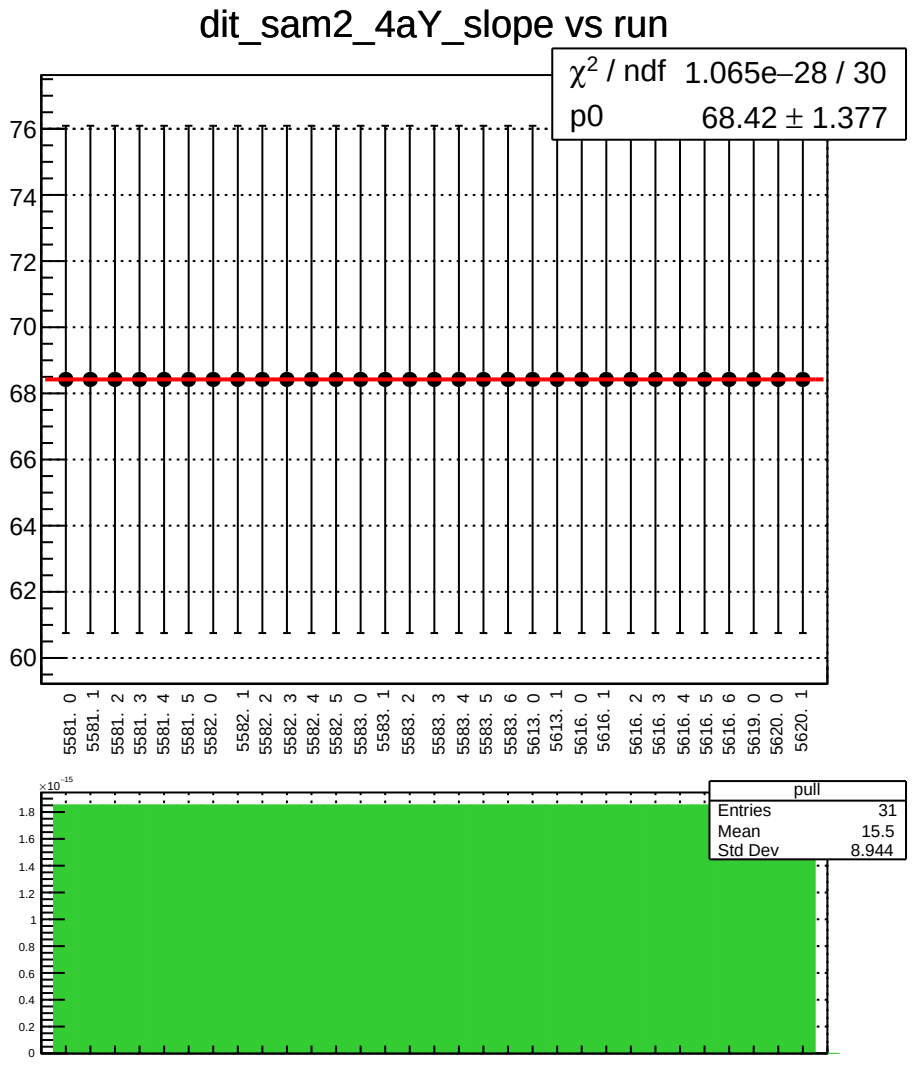

pull1D
Entries 31
Mean −4.054e−16
Std Dev1.621e−23
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

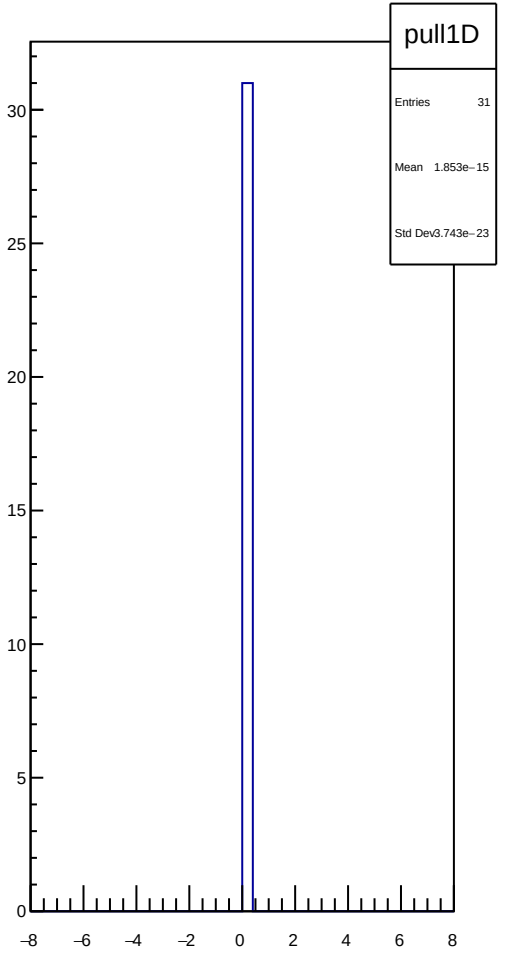

dit_sam2_4eX_slope vs run
χ² / ndf 3.073e−28 / 30
p0 −327.9 ± 3.243
−310
−315
−320
−325
−330
−335
−340
−345
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
×10⁻¹⁵
0
−0.5
−1
−1.5
−2
−2.5
−3
pull
Entries 31
Mean 15.5
Std Dev 8.944

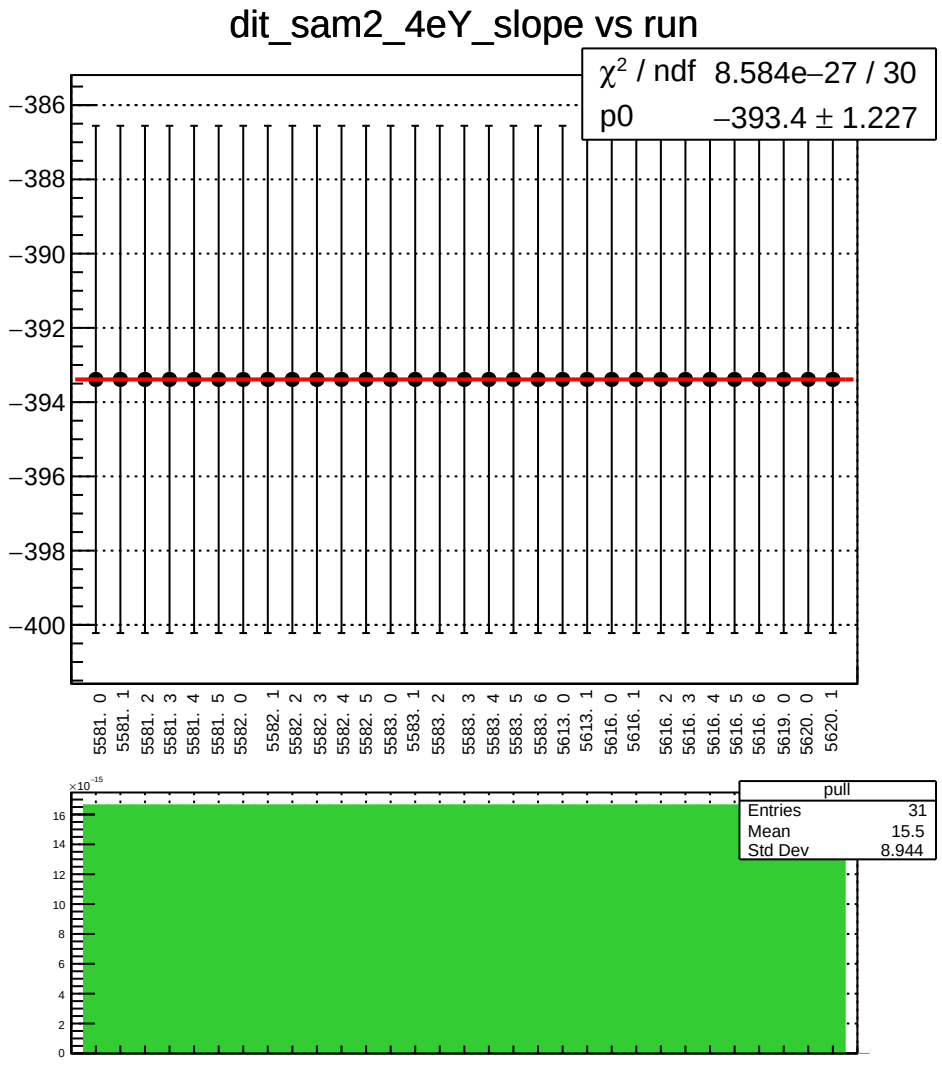

pull1D
Entries 31
Mean −3.148e−15
Std Dev 1.35e−22
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

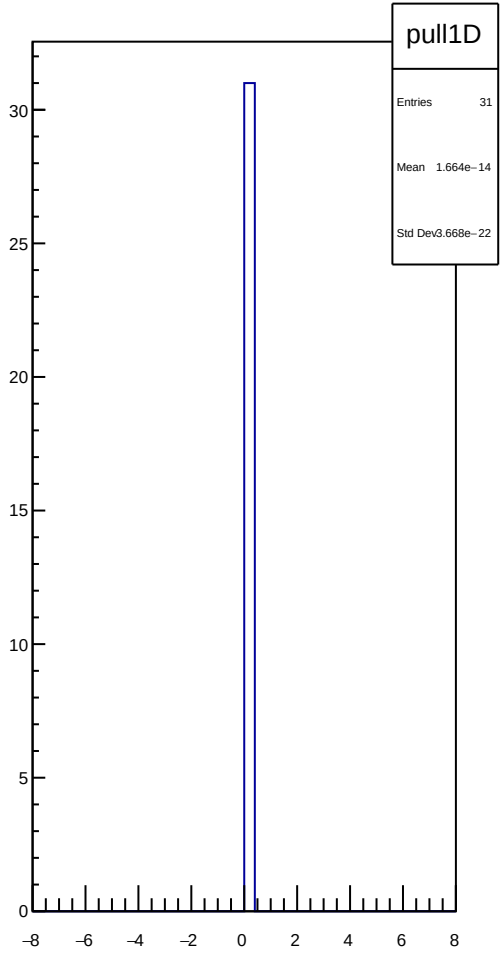

dit_sam2_11X12X_slope vs run
χ² / ndf 8.93e−30 / 30
p0 −5.782 ± 1.486
4
2
0
−2
−4
−6
−8
−10
−12
−14
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
×10⁻¹⁵
0.5
0.4
0.3
0.2
0.1
0
pull
Entries 31
Mean 15.5
Std Dev 8.944

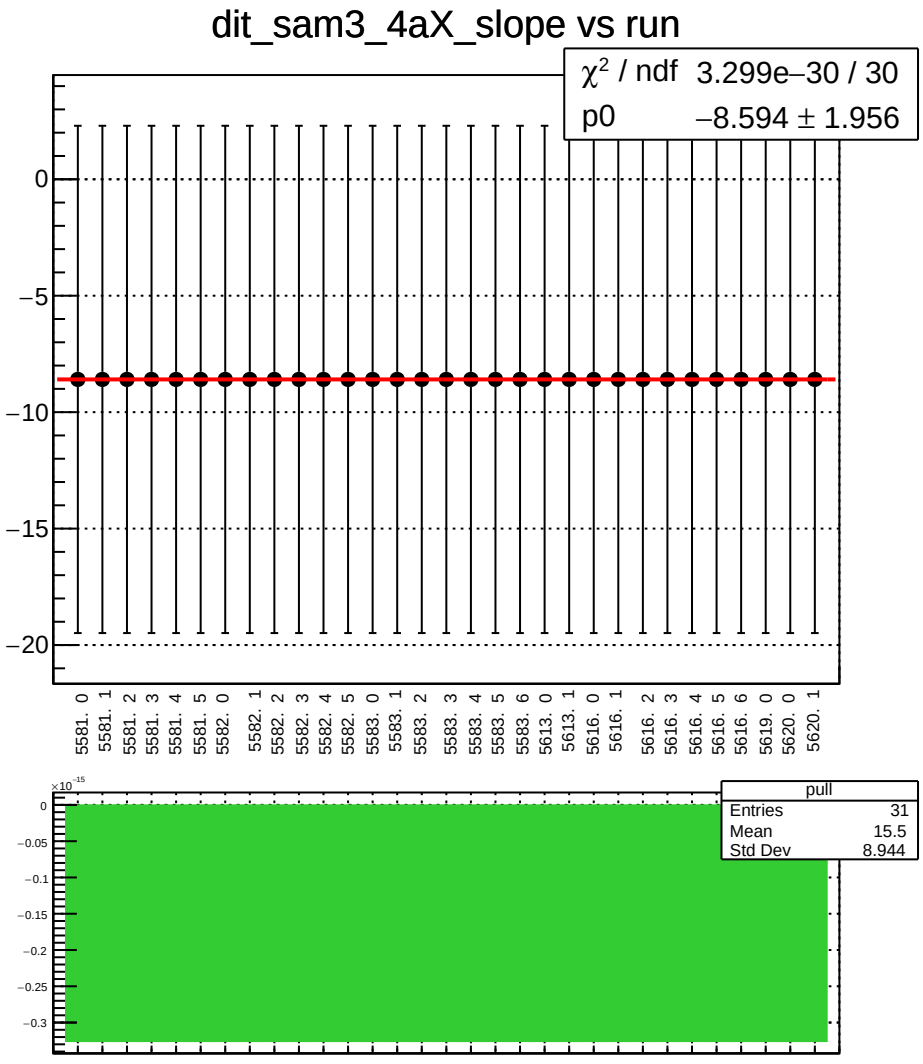

pull1D
Entries 31
Mean 5.367e−16
Std Dev 1.48e−23
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

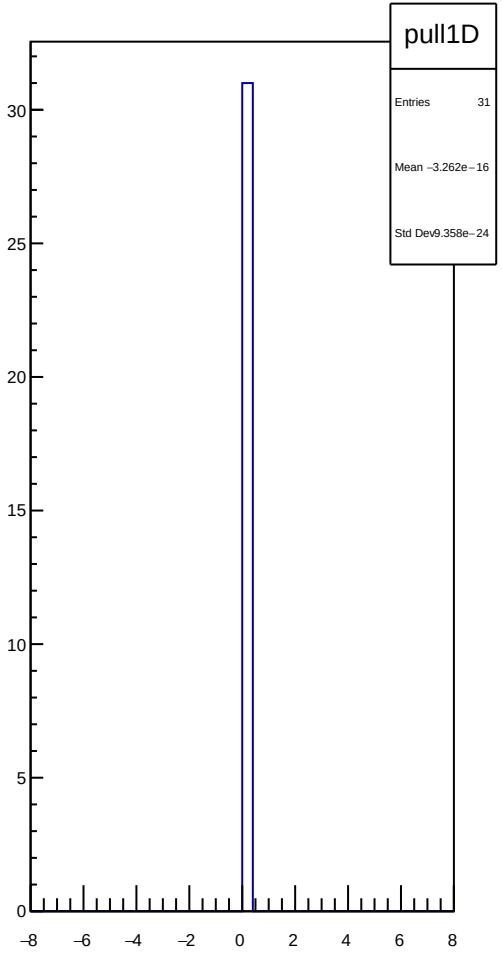

dit_sam2_4aY_slope vs run
χ² / ndf 1.065e−28 / 30
p0 68.42 ± 1.377
76
74
72
70
68
66
64
62
60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
×10⁻¹⁵
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
pull
Entries 31
Mean 15.5
Std Dev 8.944

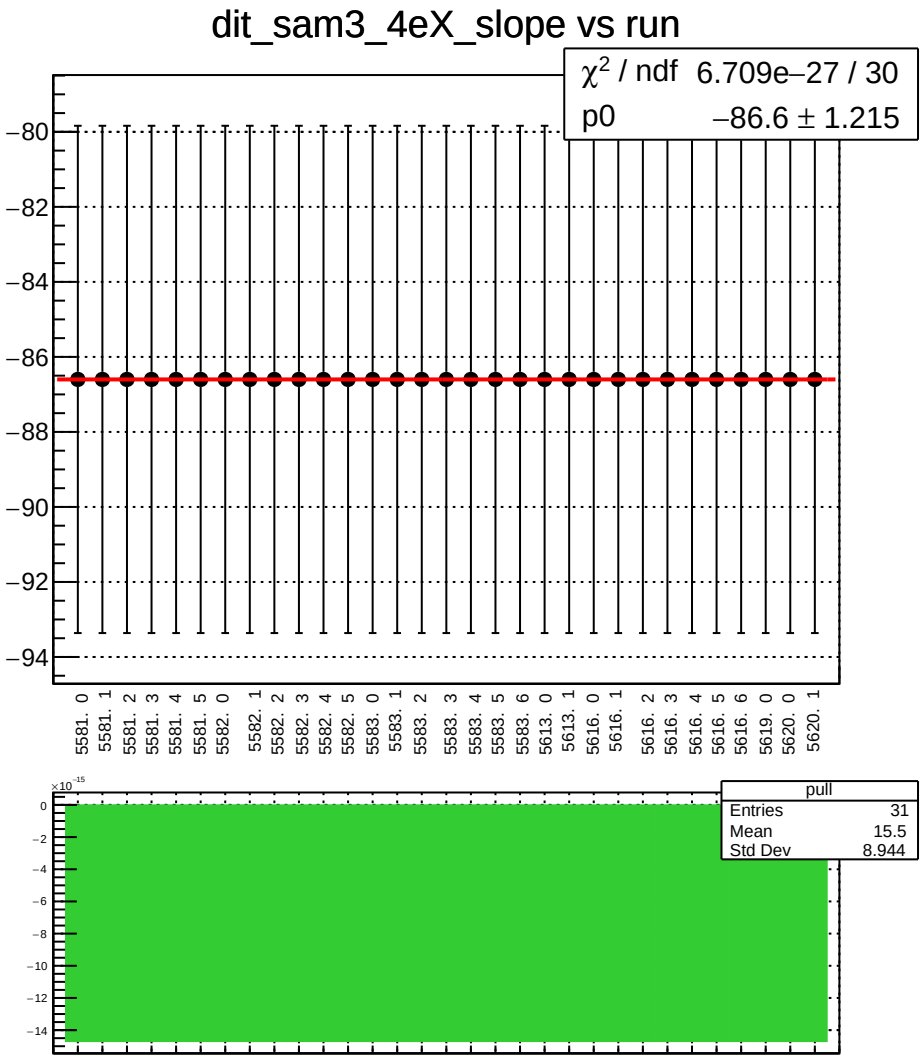

pull1D
Entries 31
Mean 1.853e−15
Std Dev 3.743e−23
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

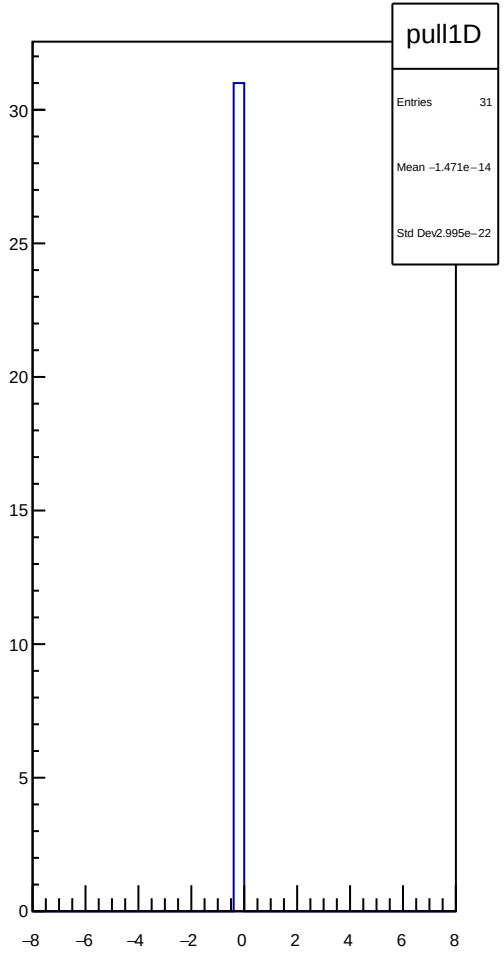

dit_sam2_4eY_slope vs run
χ² / ndf 8.584e−27 / 30
p0 −393.4 ± 1.227
−386
−388
−390
−392
−394
−396
−398
−400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
×10⁻¹⁵
16
14
12
10
8
6
4
2
0
pull
Entries 31
Mean 15.5
Std Dev 8.944

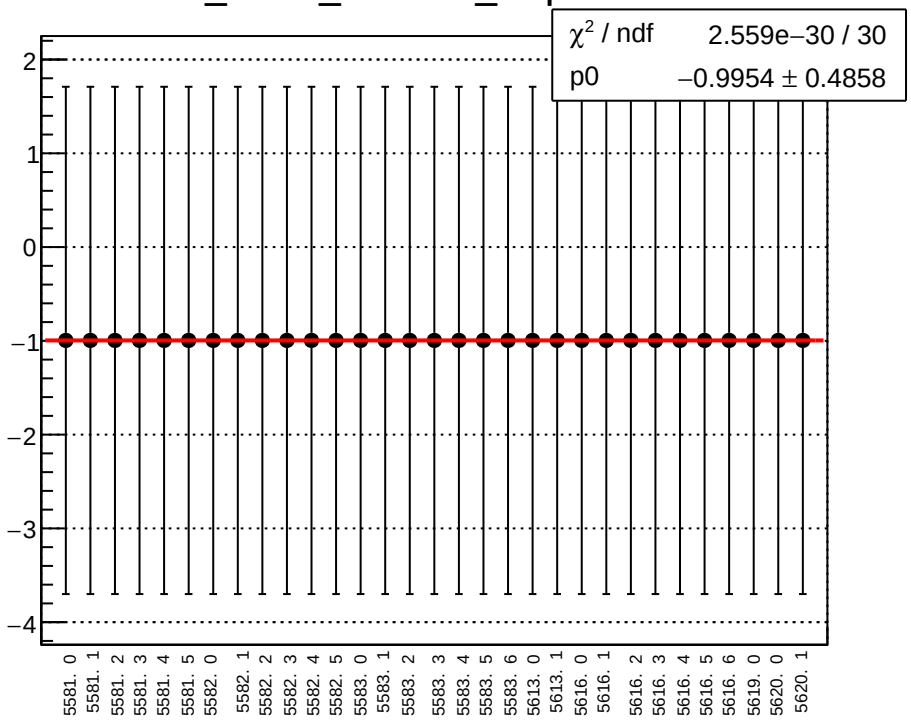

pull1D
Entries 31
Mean 1.664e−14
Std Dev3.668e−22
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

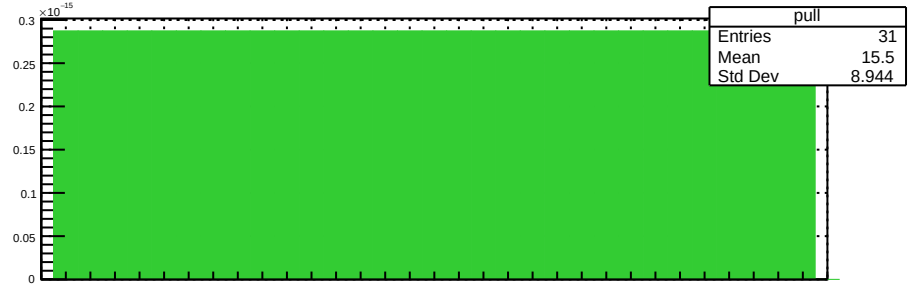

dit_sam3_4aX_slope vs run
χ² / ndf 3.299e−30 / 30
p0 −8.594 ± 1.956
0
−5
−10
−15
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
×10⁻¹⁵
0
−0.05
−0.1
−0.15
−0.2
−0.25
−0.3
pull
Entries 31
Mean 15.5
Std Dev 8.944

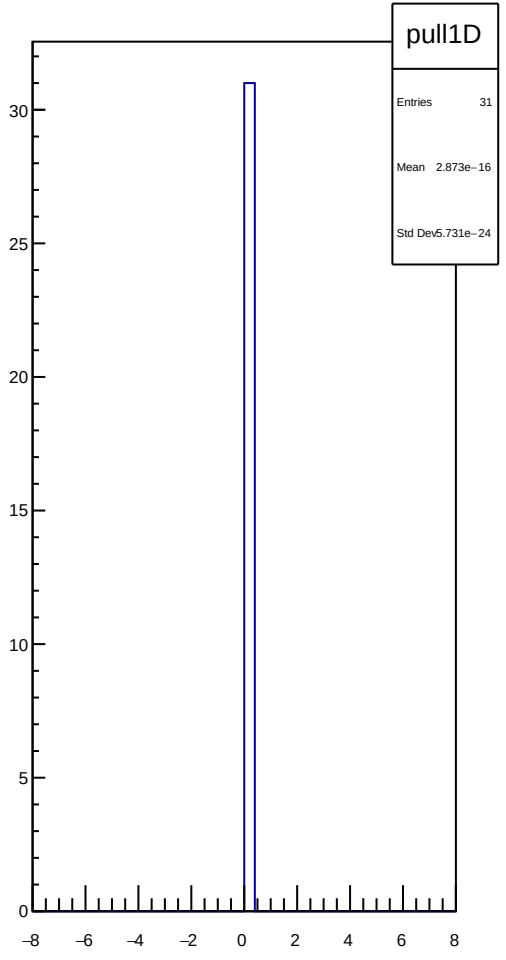

pull1D
Entries 31
Mean −3.262e−16
Std Dev 9.358e−24
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

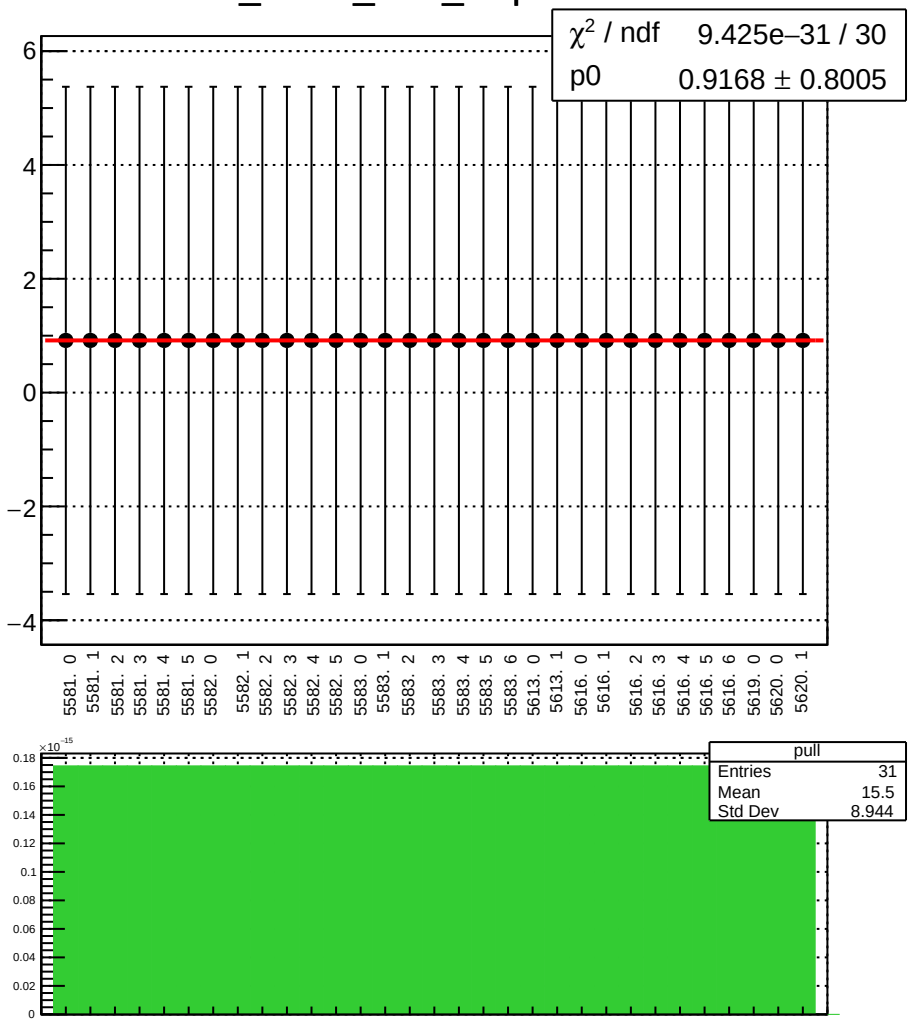

dit_sam3_4eX_slope vs run
χ² / ndf 6.709e−27 / 30
p0 −86.6 ± 1.215
−80
−82
−84
−86
−88
−90
−92
−94
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
×10⁻¹⁵
0
−2
−4
−6
−8
−10
−12
−14
pull
Entries 31
Mean 15.5
Std Dev 8.944

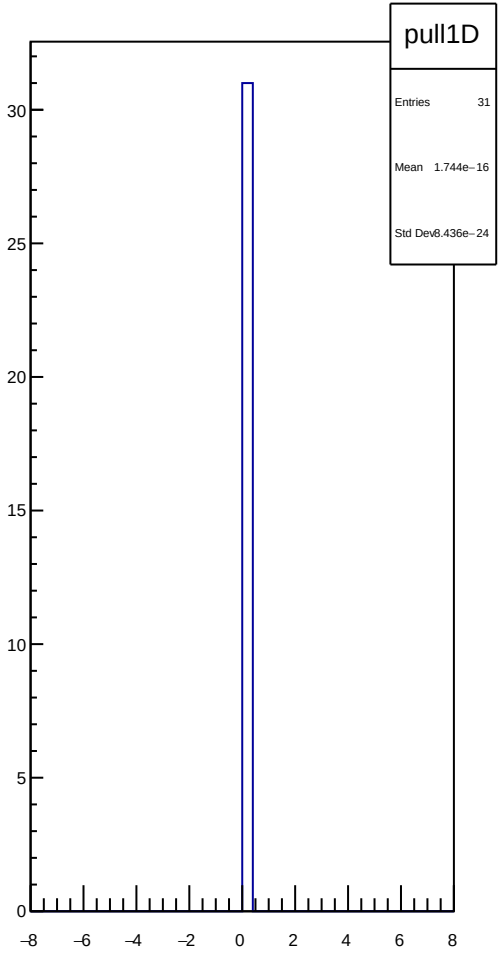

pull1D
Entries 31
Mean −1.471e−14
Std Dev 2.995e−22
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

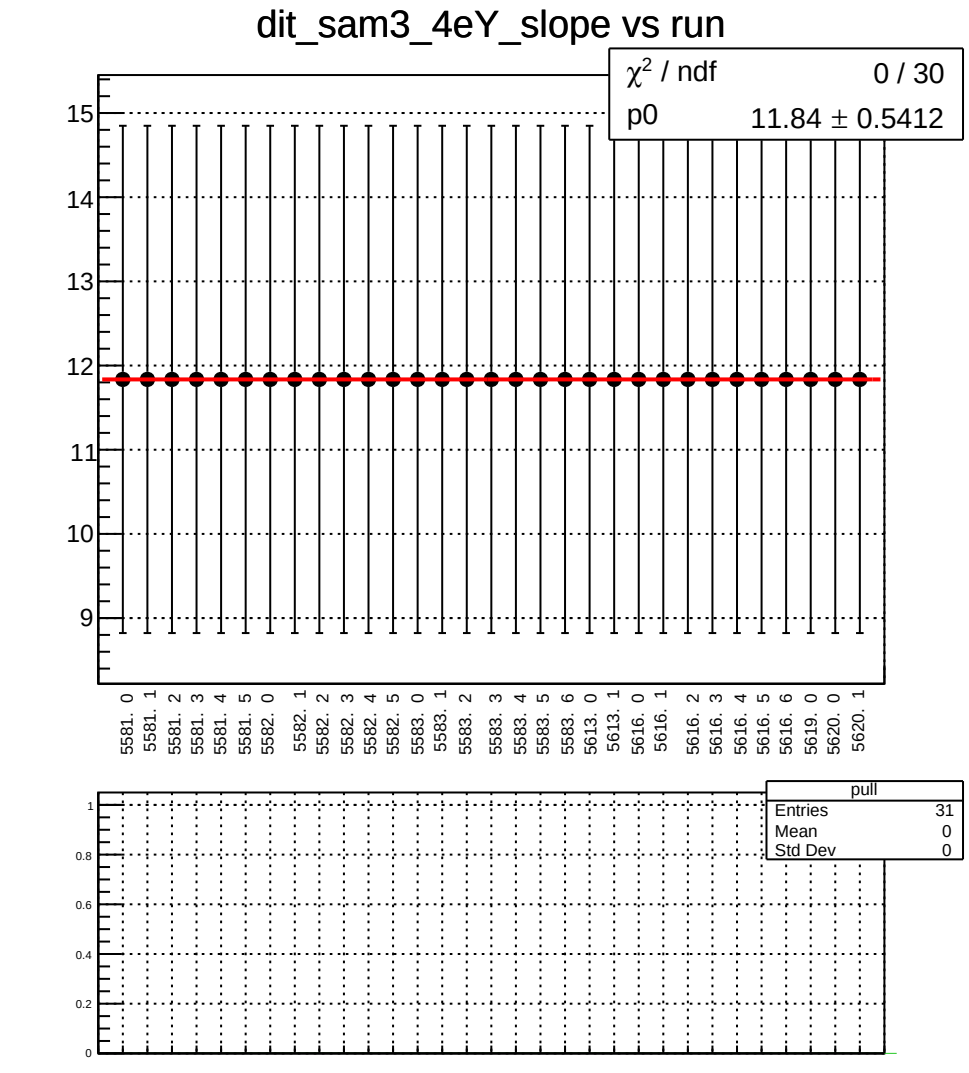

dit_sam3_11X12X_slope vs run
χ² / ndf 2.559e−30 / 30
p0 −0.9954 ± 0.4858
2
1
0
−1
−2
−3
−4
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

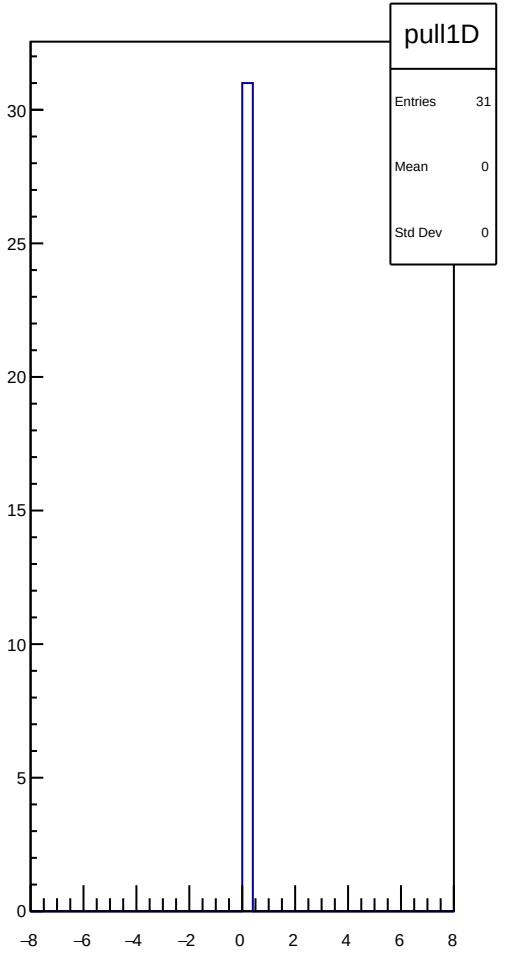

×10⁻¹⁵
0.3
0.25
0.2
0.15
0.1
0.05
0
pull
Entries 31
Mean 15.5
Std Dev 8.944

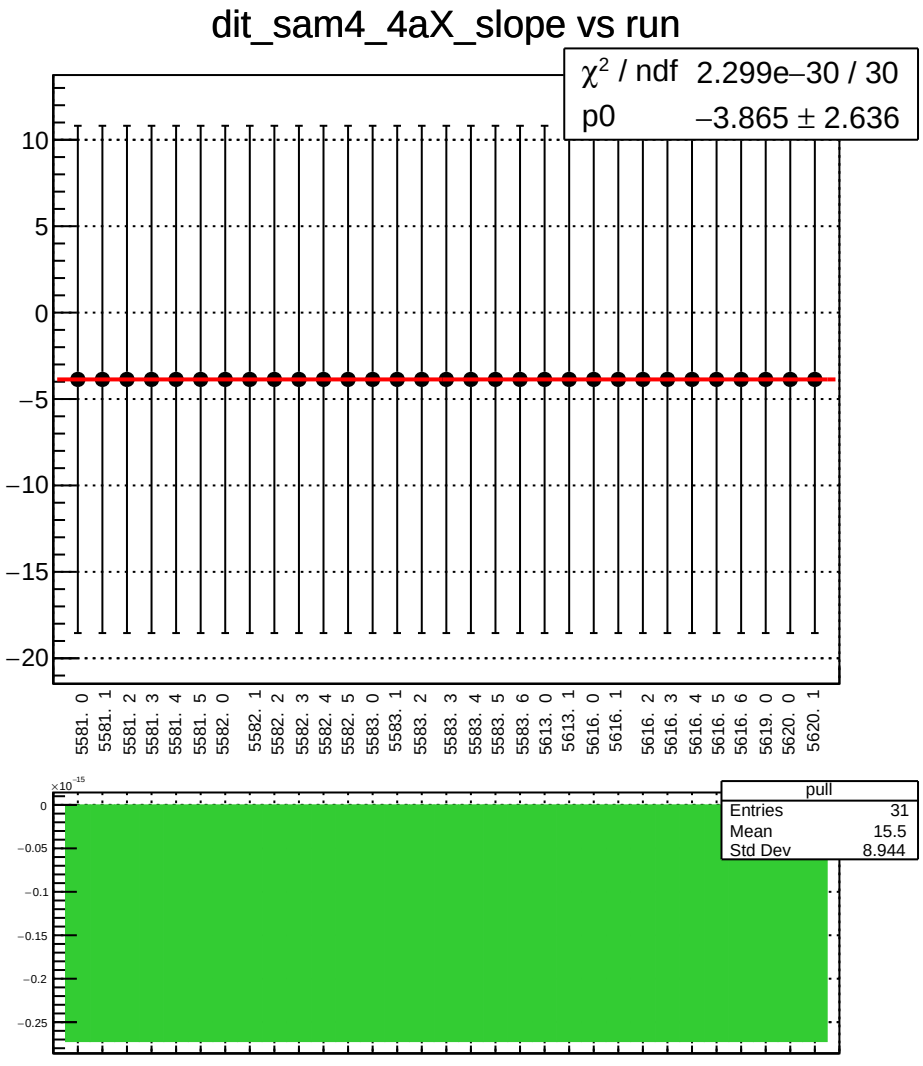

pull1D
Entries 31
Mean 2.873e−16
Std Dev5.731e−24
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

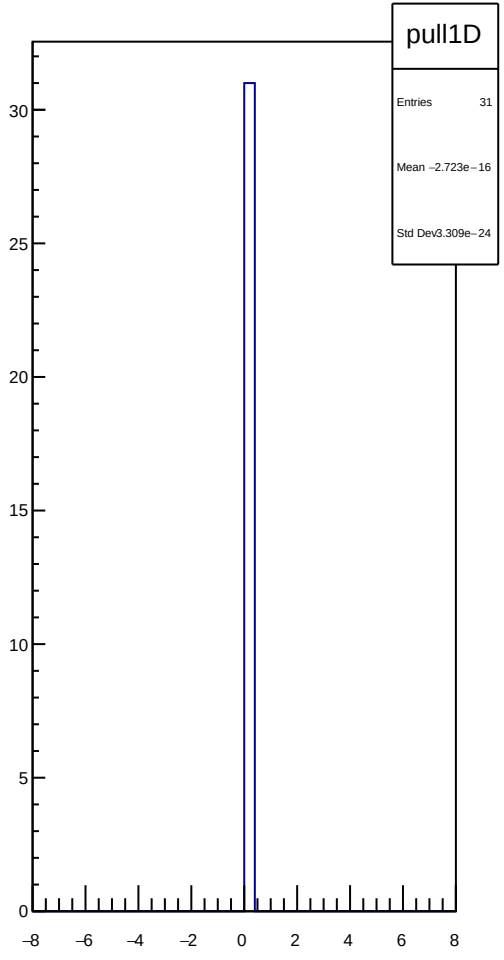

dit_sam3_4aY_slope vs run
χ² / ndf 9.425e−31 / 30
p0 0.9168 ± 0.8005
6
4
2
0
−2
−4
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
×10⁻¹⁵
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
pull
Entries 31
Mean 15.5
Std Dev 8.944

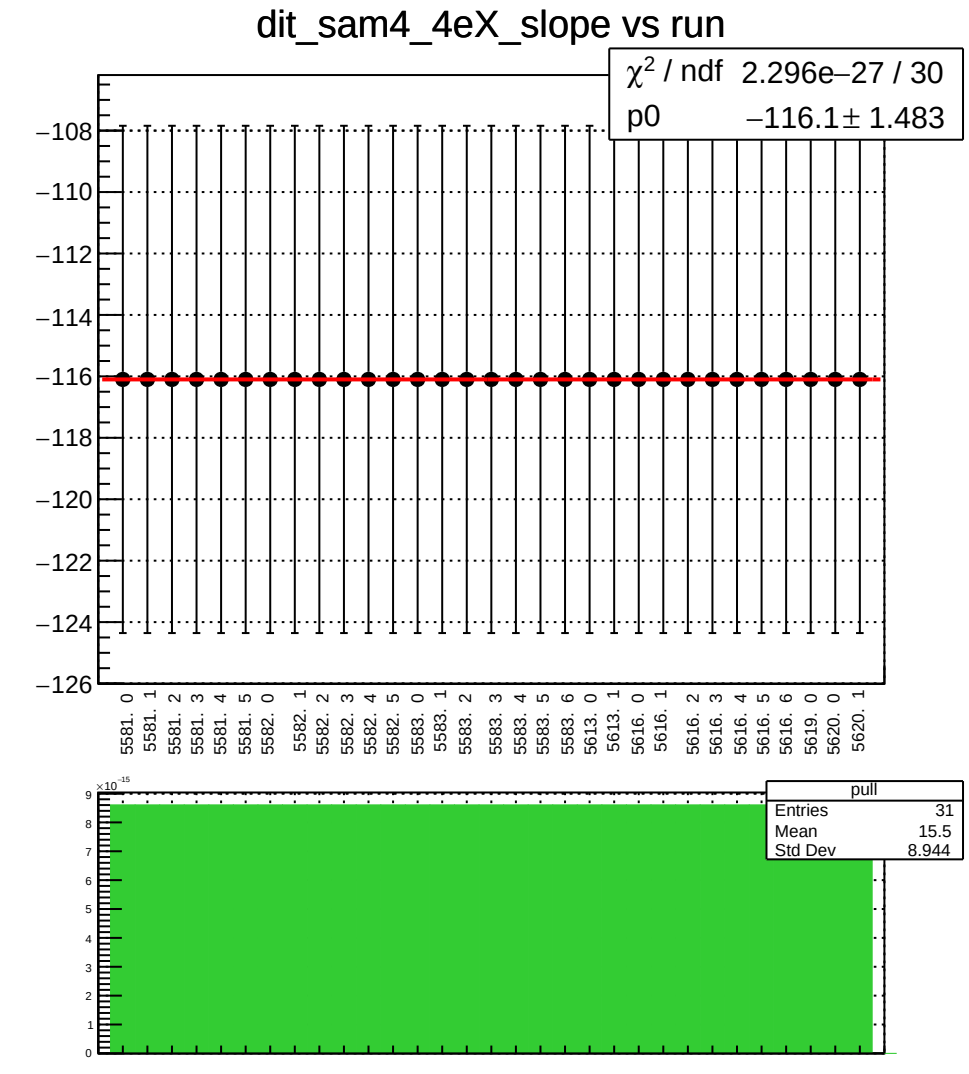

pull1D
Entries 31
Mean 1.744e−16
Std Dev 8.436e−24
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

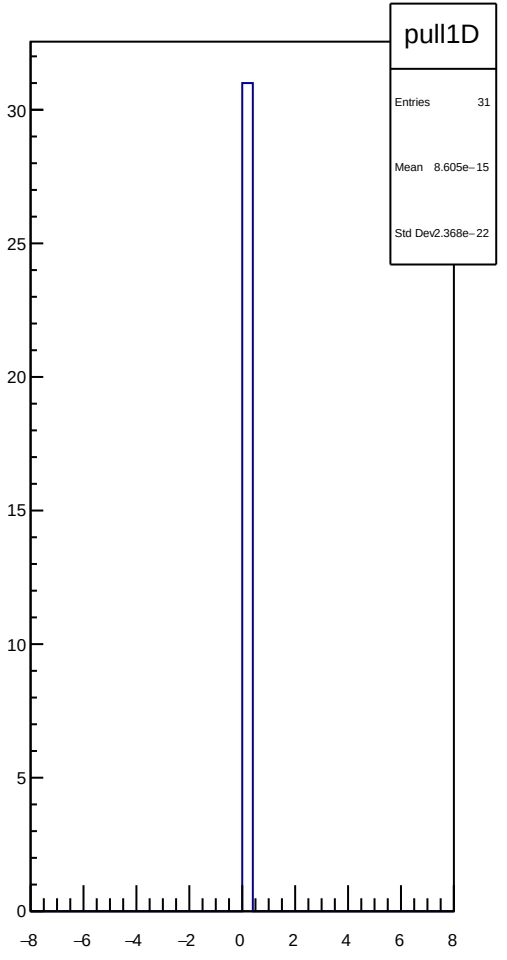

dit_sam3_4eY_slope vs run
χ² / ndf 0 / 30
p0 11.84 ± 0.5412
15
14
13
12
11
10
9
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

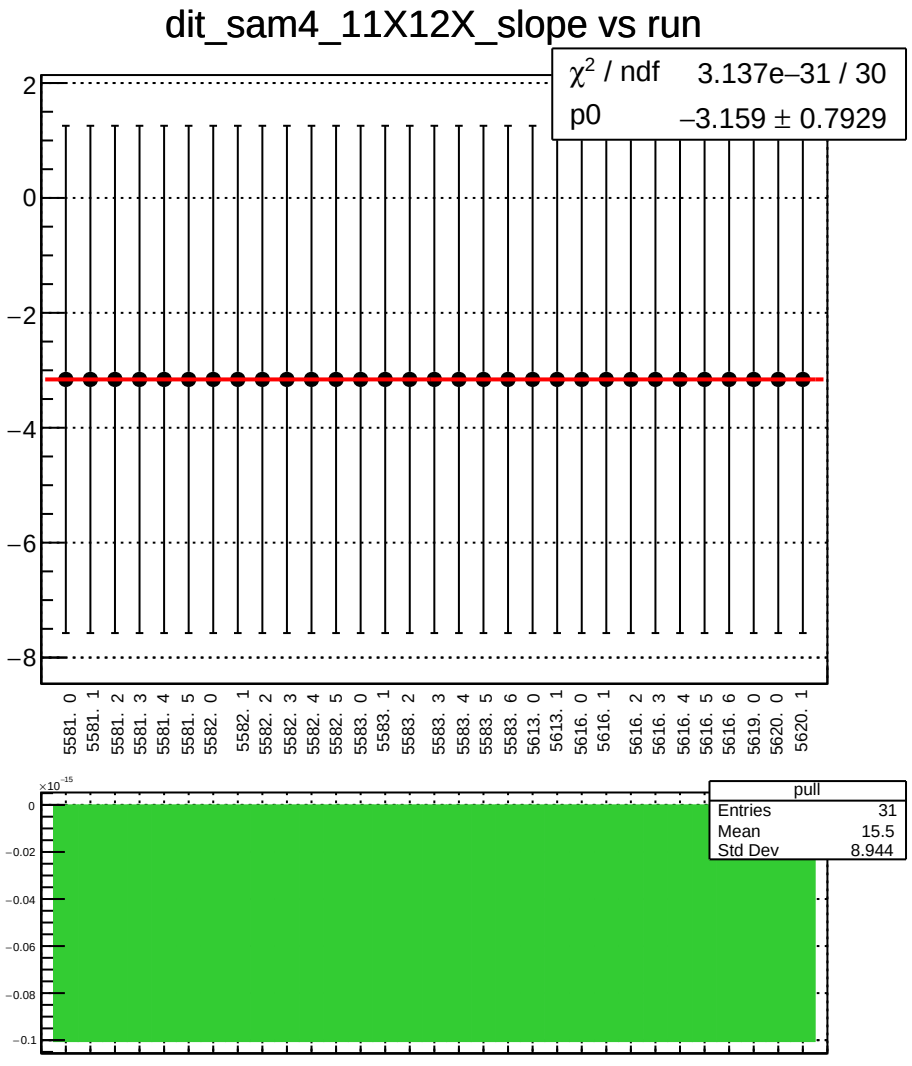

pull1D
Entries 31
Mean 0
Std Dev 0
30
25
20
15
10
5
0
–8
–6
–4
–2
0
2
4
6
8

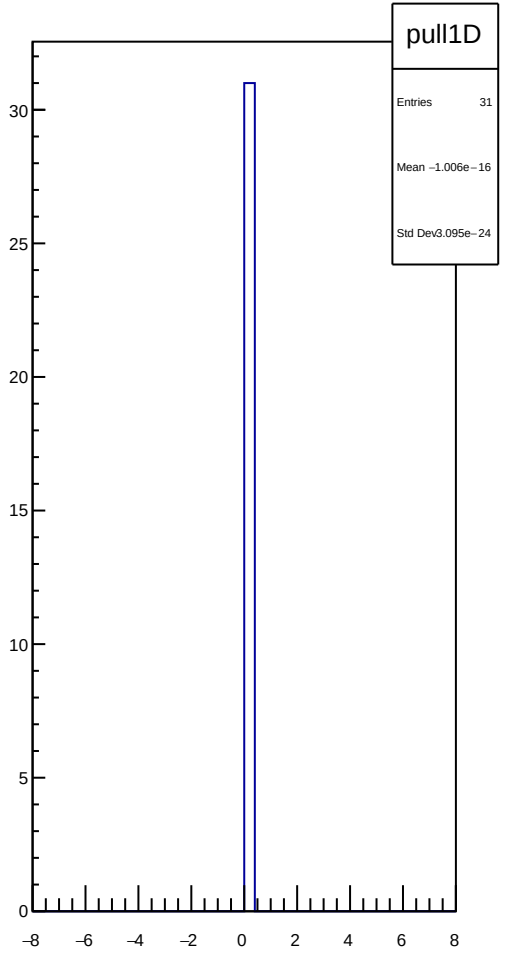

dit_sam4_4aX_slope vs run
χ² / ndf 2.299e−30 / 30
p0 −3.865 ± 2.636
10
5
0
−5
−10
−15
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
×10⁻¹⁵
0
−0.05
−0.1
−0.15
−0.2
−0.25
pull
Entries 31
Mean 15.5
Std Dev 8.944

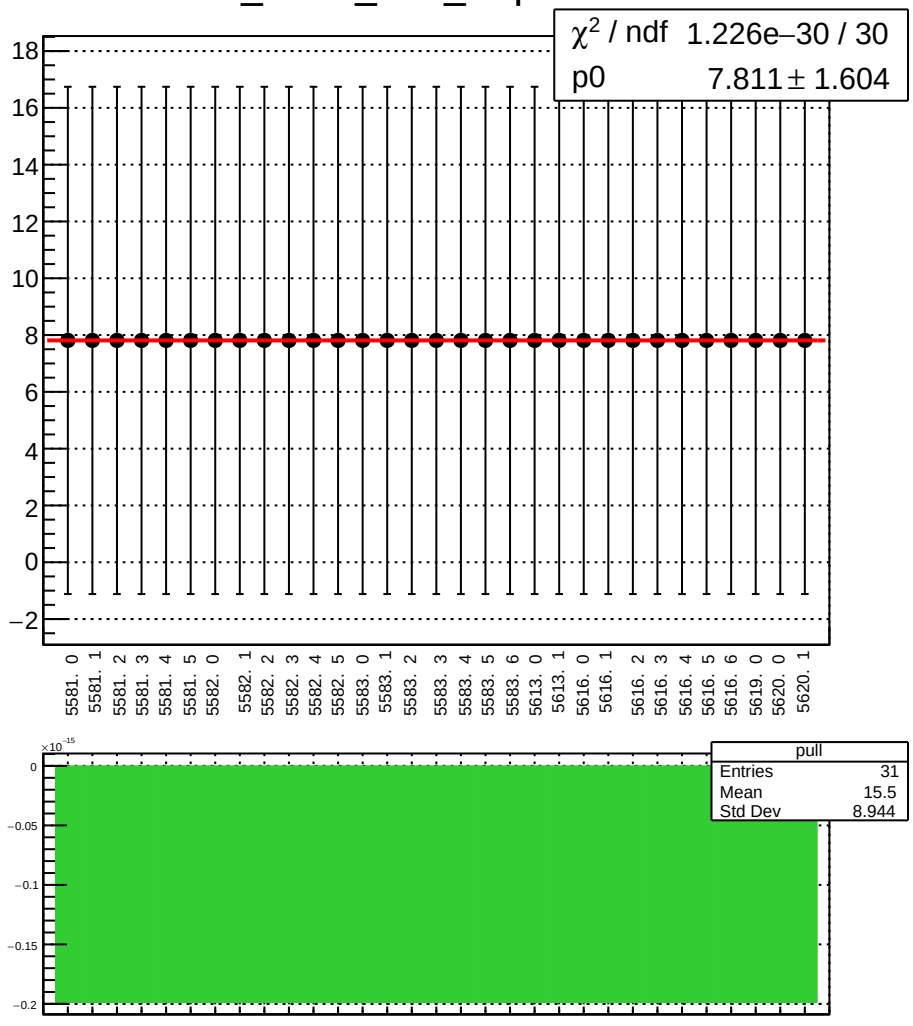

pull1D
Entries 31
Mean −2.723e−16
Std Dev3.309e−24
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

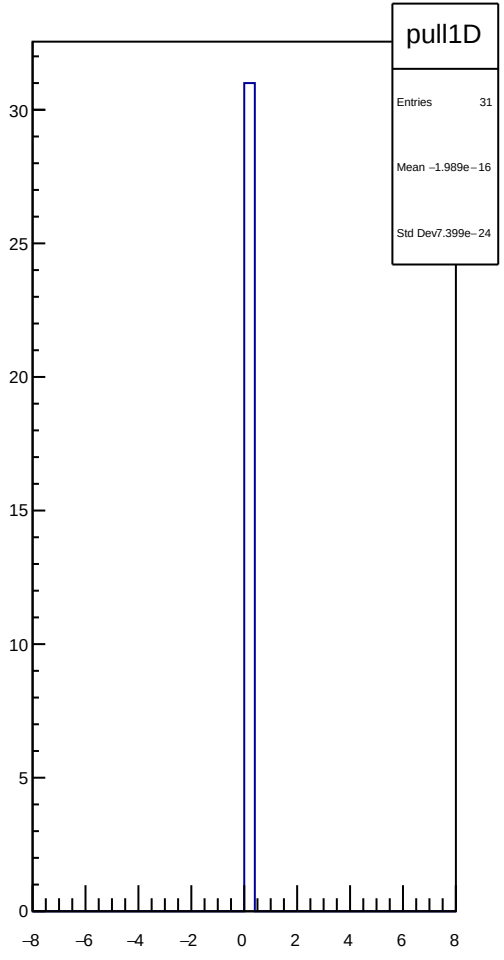

dit_sam4_4eX_slope vs run
χ² / ndf 2.296e−27 / 30
p0 −116.1± 1.483
−108
−110
−112
−114
−116
−118
−120
−122
−124
−126
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
×10⁻¹⁵
pull
Entries 31
Mean 15.5
Std Dev 8.944

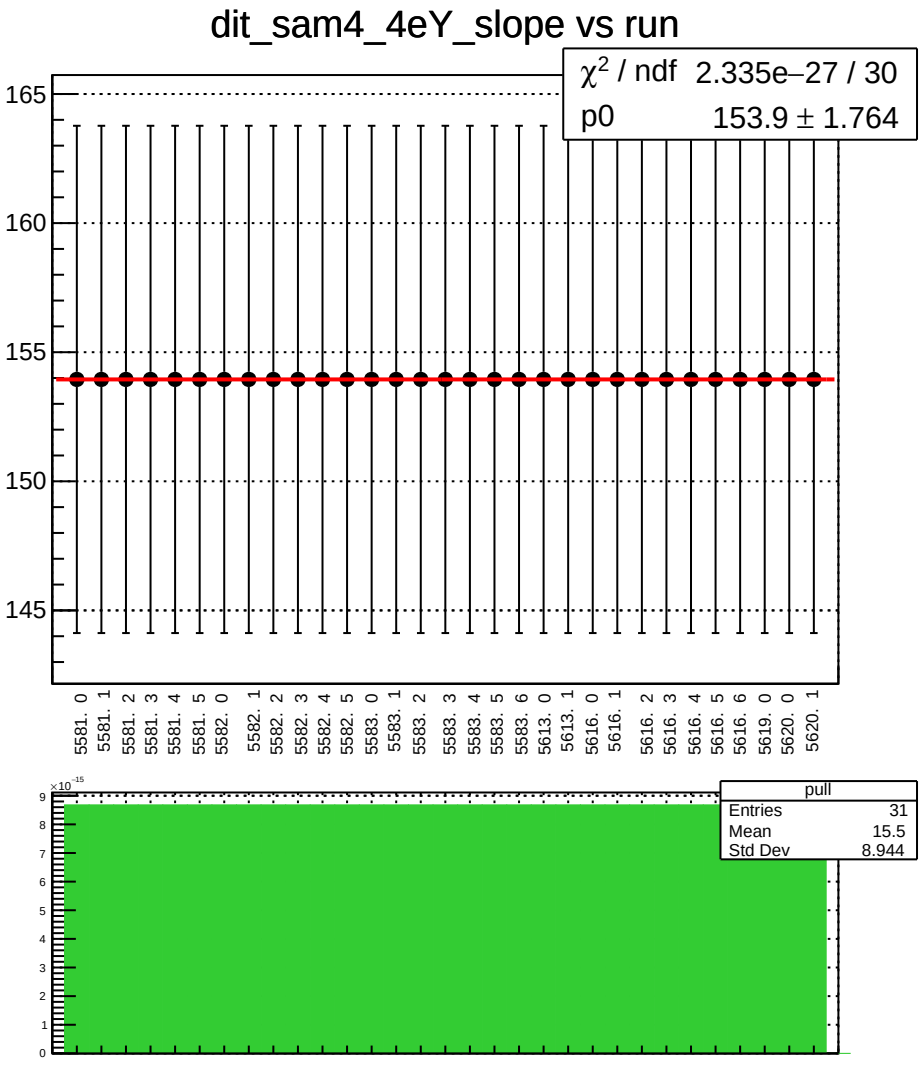

pull1D
Entries 31
Mean 8.605e−15
Std Dev2.368e−22
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

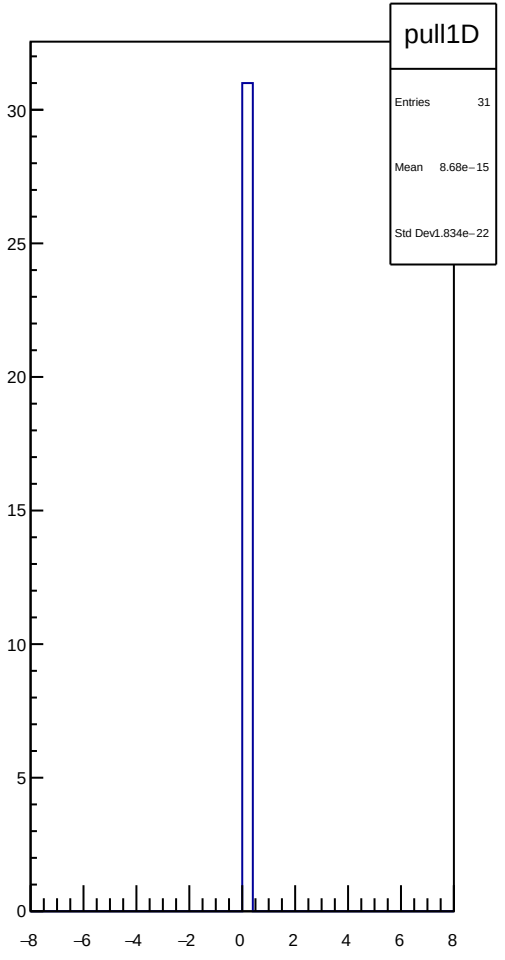

dit_sam4_11X12X_slope vs run
χ² / ndf 3.137e−31 / 30
p0 −3.159 ± 0.7929
2
0
−2
−4
−6
−8
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
×10⁻¹⁵
0
−0.02
−0.04
−0.06
−0.08
−0.1
pull
Entries 31
Mean 15.5
Std Dev 8.944

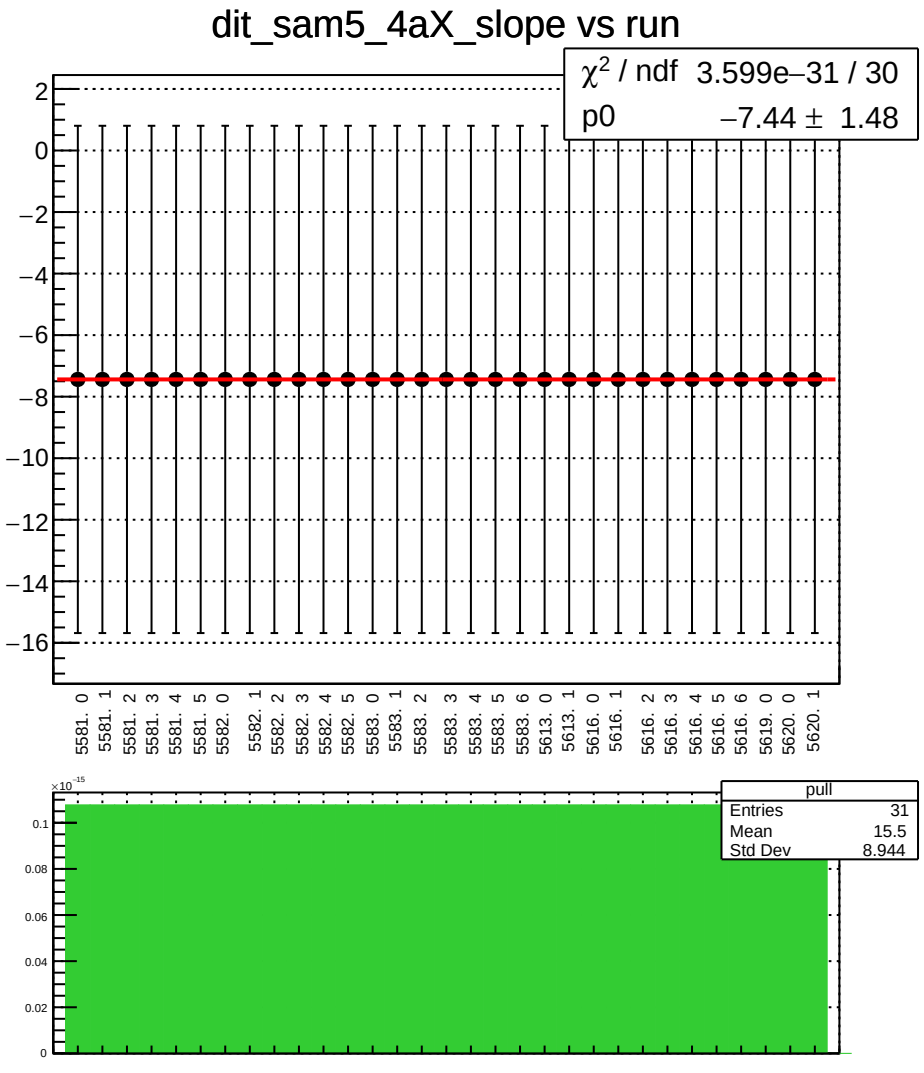

pull1D
Entries 31
Mean −1.006e−16
Std Dev3.095e−24
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

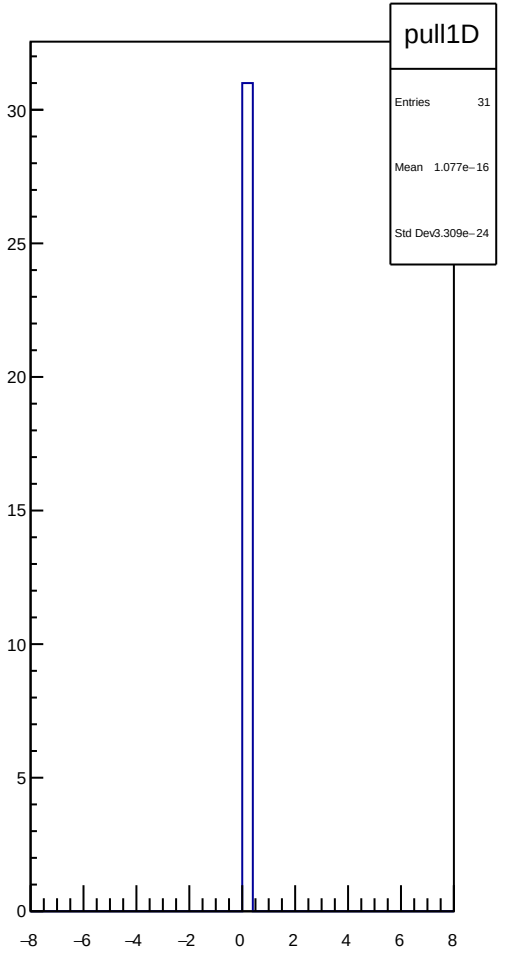

dit_sam4_4aY_slope vs run
χ² / ndf 1.226e−30 / 30
p0 7.811 ± 1.604
18
16
14
12
10
8
6
4
2
0
−2
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
×10⁻¹⁵
0
−0.05
−0.1
−0.15
−0.2
pull
Entries 31
Mean 15.5
Std Dev 8.944

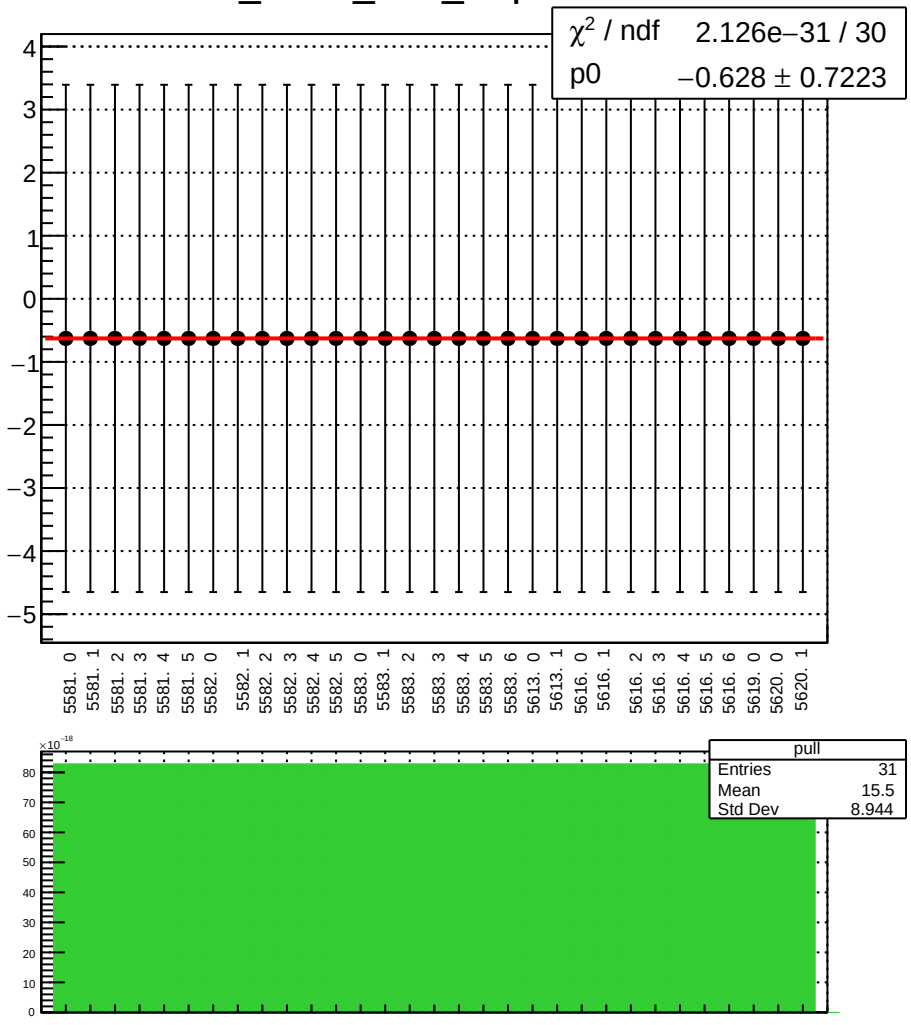

pull1D
Entries 31
Mean −1.989e−16
Std Dev7.399e−24
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

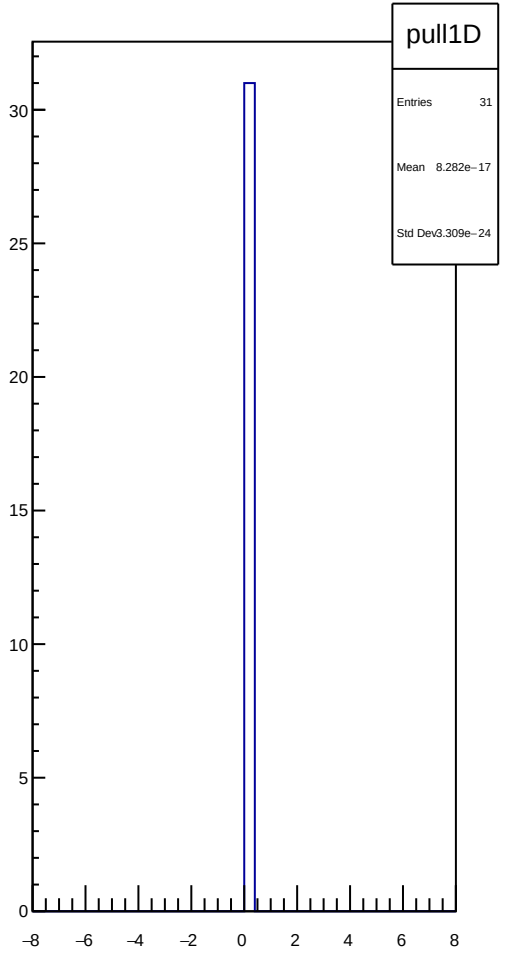

dit_sam4_4eY_slope vs run
χ² / ndf 2.335e−27 / 30
p0 153.9 ± 1.764
165
160
155
150
145
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
×10⁻¹⁵
9
8
7
6
5
4
3
2
1
0
pull
Entries 31
Mean 15.5
Std Dev 8.944

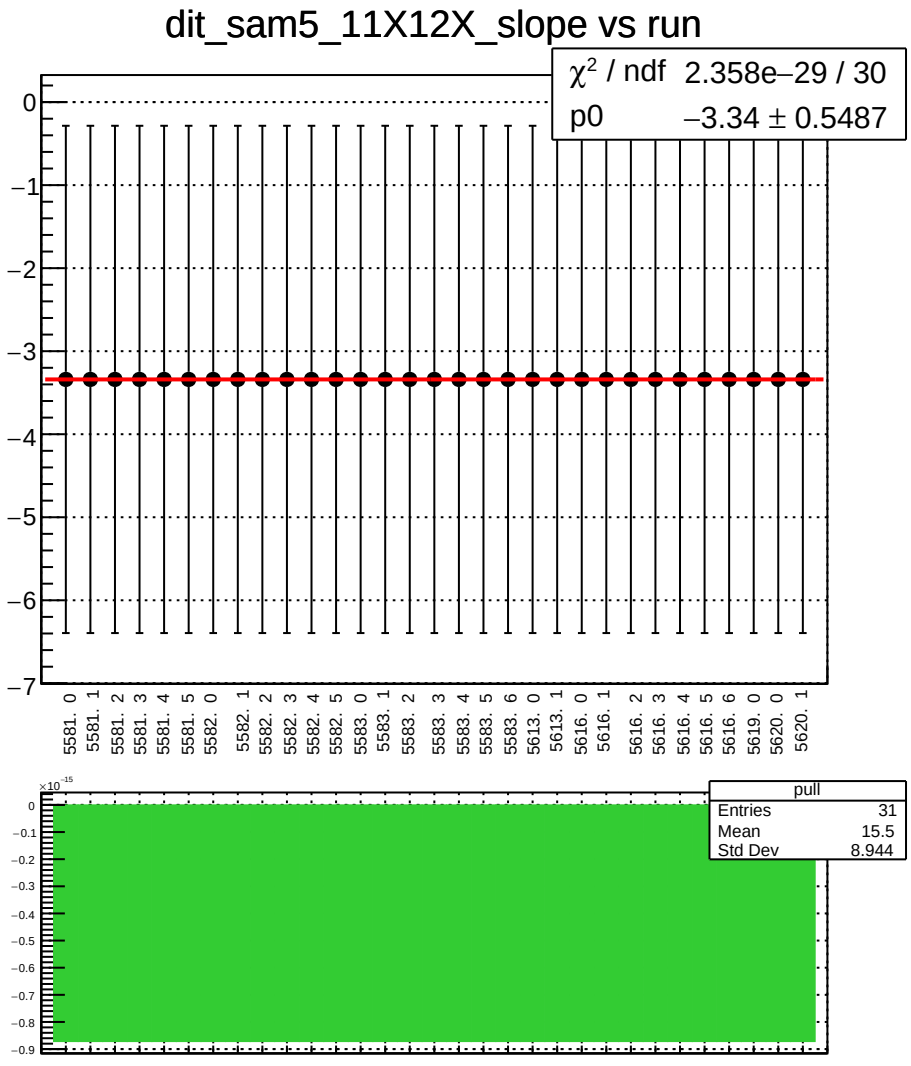

pull1D
Entries 31
Mean 8.68e−15
Std Dev1.834e−22
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

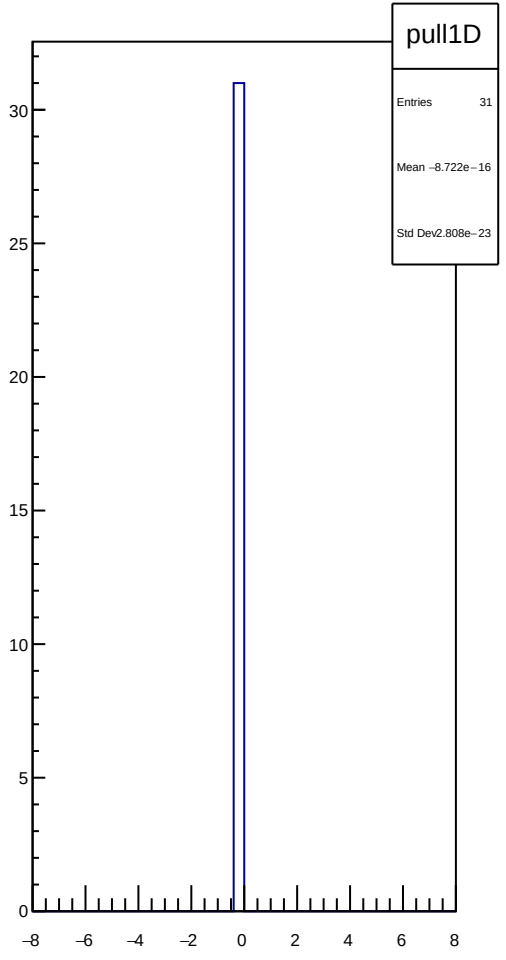

dit_sam5_4aX_slope vs run
χ² / ndf 3.599e−31 / 30
p0 −7.44 ± 1.48
2
0
−2
−4
−6
−8
−10
−12
−14
−16
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
×10⁻¹⁵
0.1
0.08
0.06
0.04
0.02
0
pull
Entries 31
Mean 15.5
Std Dev 8.944

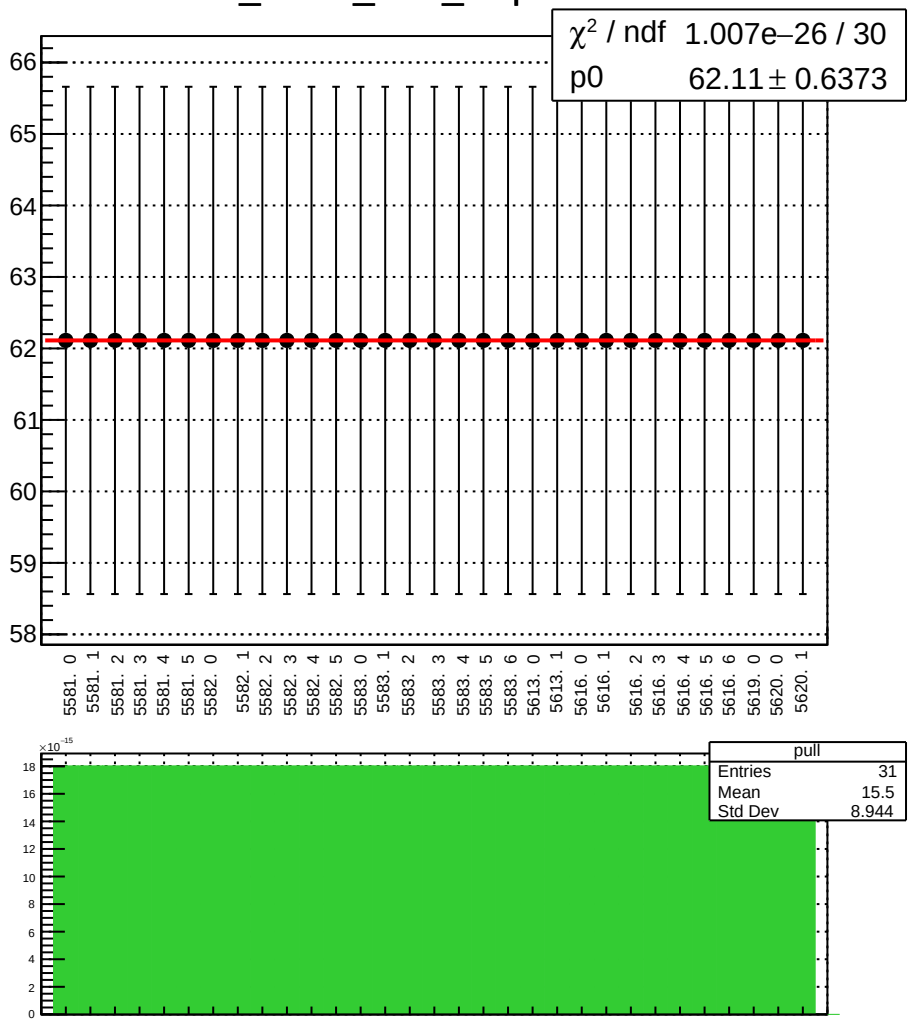

pull1D
Entries 31
Mean 1.077e−16
Std Dev3.309e−24
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

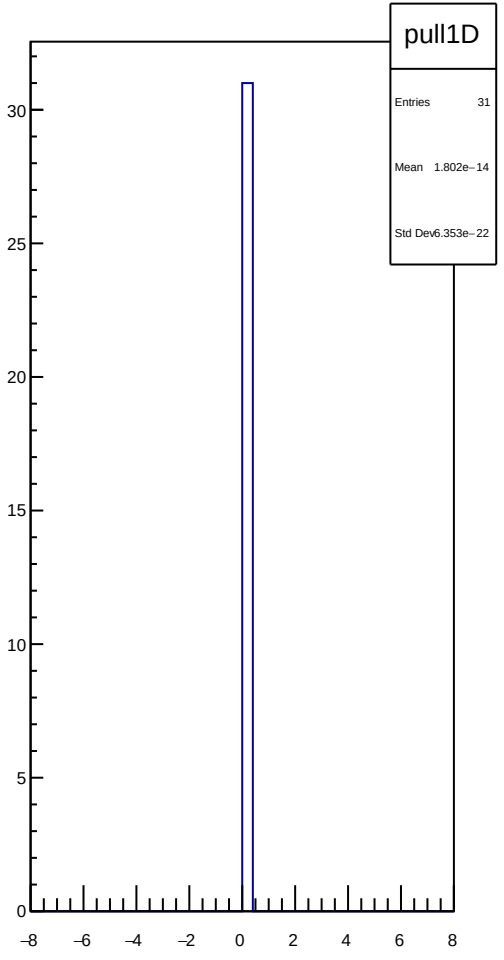

dit_sam5_4eX_slope vs run
χ² / ndf 2.126e−31 / 30
p0 −0.628 ± 0.7223
4
3
2
1
0
−1
−2
−3
−4
−5
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
×10⁻¹⁸
80
70
60
50
40
30
20
10
0
pull
Entries 31
Mean 15.5
Std Dev 8.944

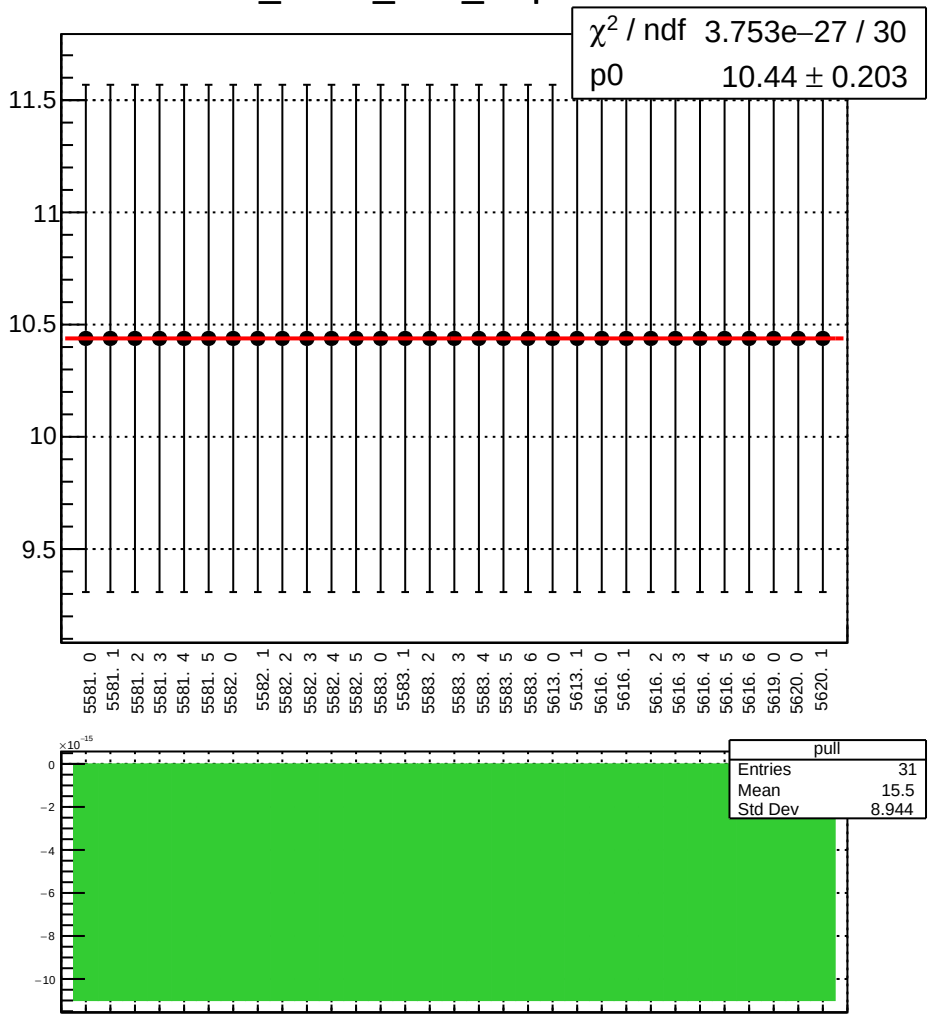

pull1D
Entries 31
Mean 8.282e−17
Std Dev3.309e−24
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

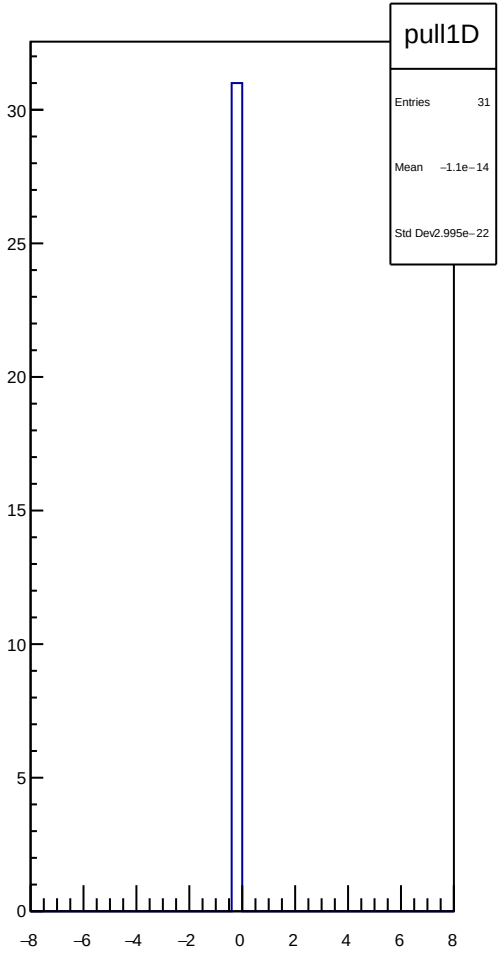

dit_sam5_11X12X_slope vs run
χ² / ndf 2.358e−29 / 30
p0 −3.34 ± 0.5487
0
−1
−2
−3
−4
−5
−6
−7
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
×10⁻¹⁵
0
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
−0.8
−0.9
pull
Entries 31
Mean 15.5
Std Dev 8.944

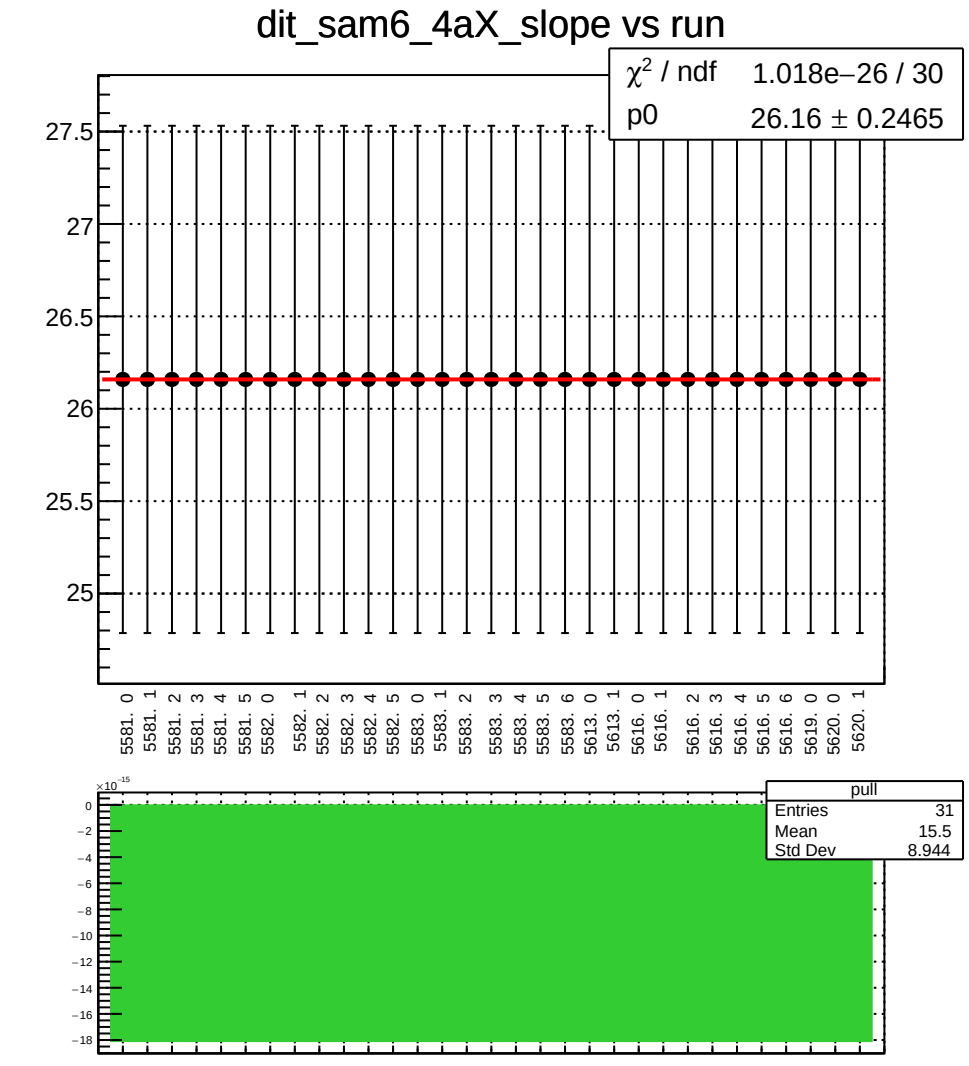

pull1D
Entries 31
Mean −8.722e−16
Std Dev2.808e−23
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

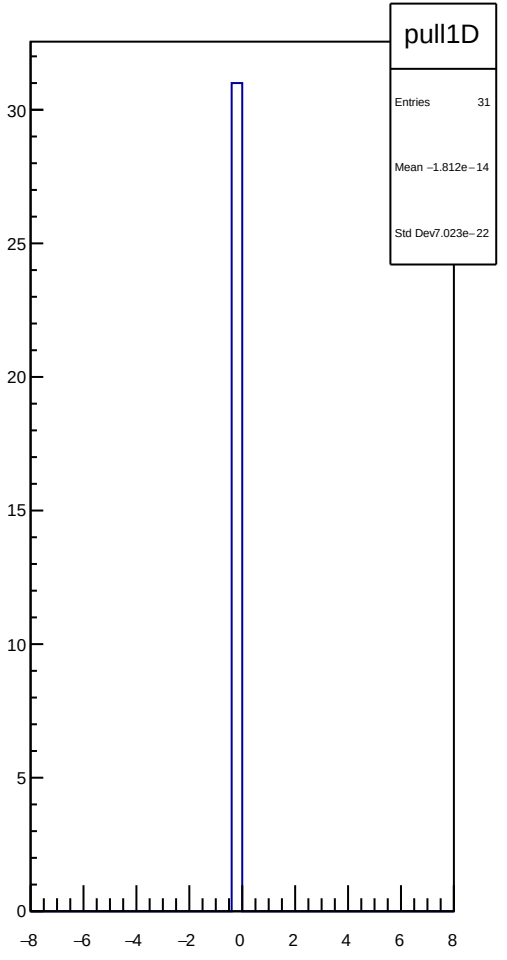

dit_sam5_4aY_slope vs run
χ^2 / ndf 1.007e−26 / 30
p0 62.11 ± 0.6373
66
65
64
63
62
61
60
59
58
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
×10⁻¹⁵
18
16
14
12
10
8
6
4
2
0
pull
Entries 31
Mean 15.5
Std Dev 8.944

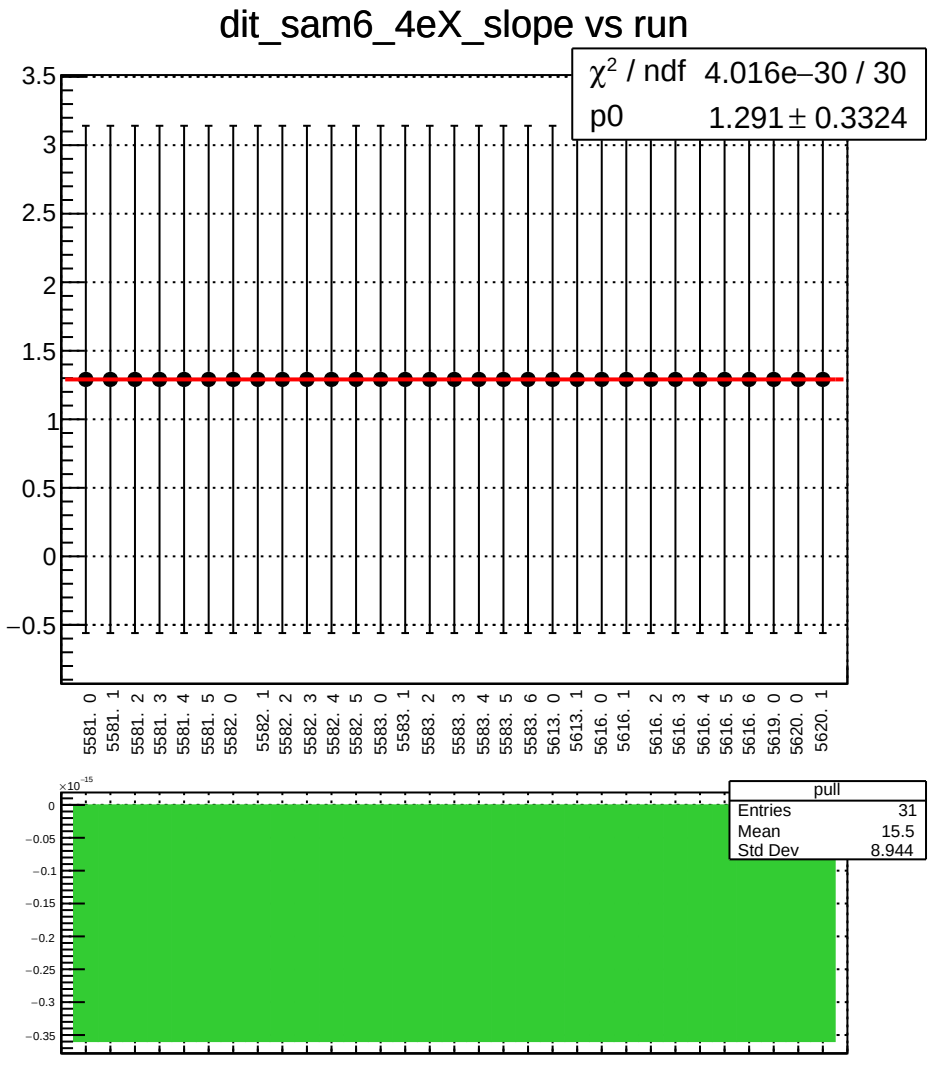

pull1D
Entries 31
Mean 1.802e−14
Std Dev 6.353e−22
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

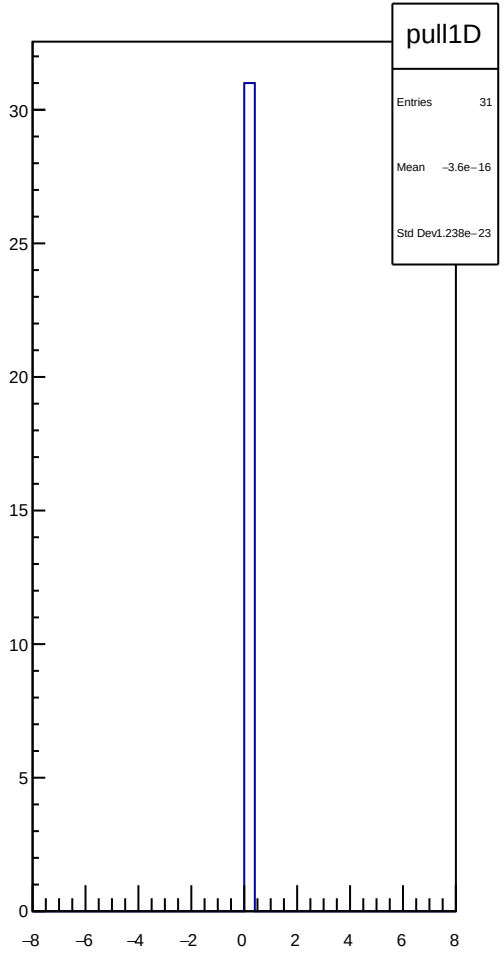

dit_sam5_4eY_slope vs run
χ² / ndf 3.753e−27 / 30
p0 10.44 ± 0.203
11.5
11
10.5
10
9.5
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
×10⁻¹⁵
0
−2
−4
−6
−8
−10
pull
Entries 31
Mean 15.5
Std Dev 8.944

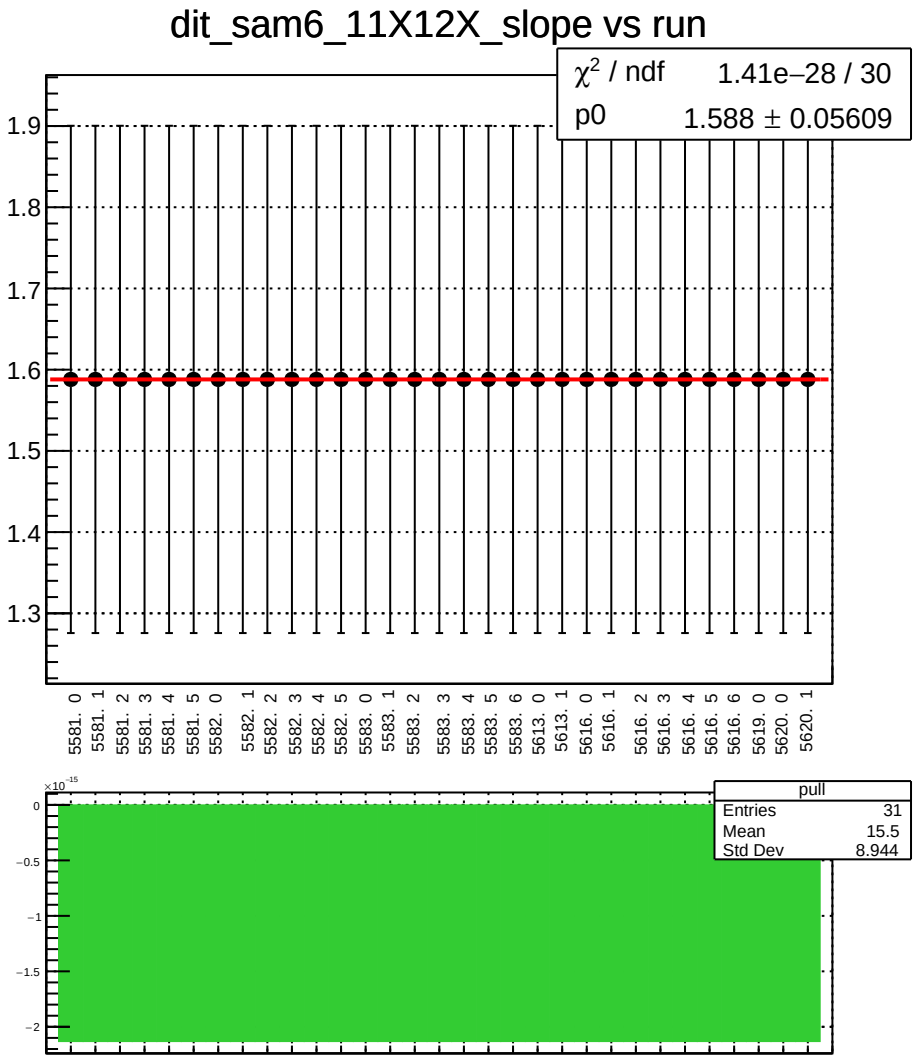

pull1D
Entries 31
Mean −1.1e−14
Std Dev 2.995e−22
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

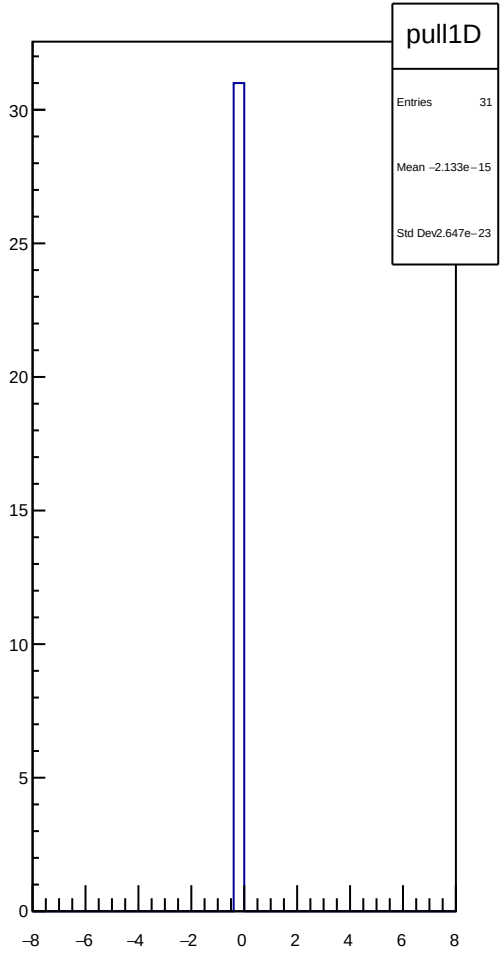

dit_sam6_4aX_slope vs run
χ² / ndf 1.018e−26 / 30
p0 26.16 ± 0.2465
27.5
27
26.5
26
25.5
25
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
×10⁻¹⁵
0
−2
−4
−6
−8
−10
−12
−14
−16
−18
pull
Entries 31
Mean 15.5
Std Dev 8.944

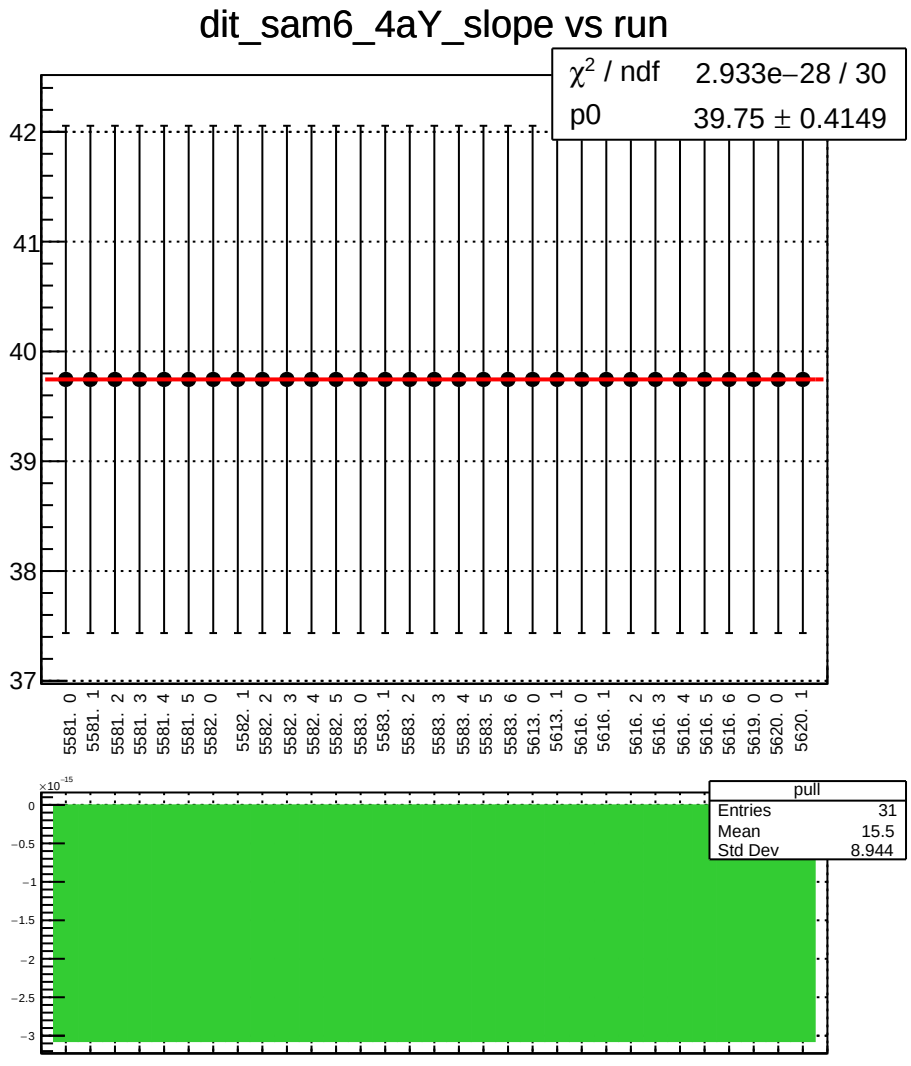

pull1D
Entries 31
Mean −1.812e−14
Std Dev7.023e−22
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

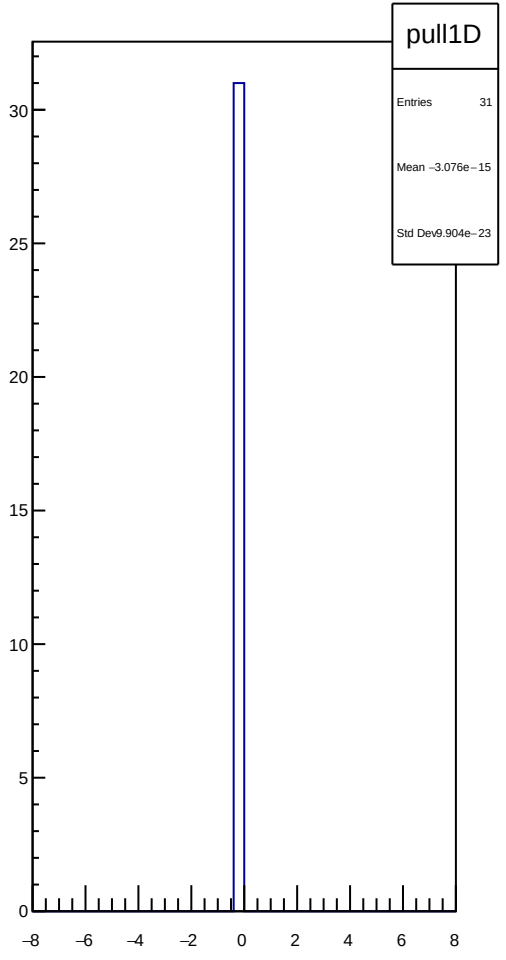

dit_sam6_4eX_slope vs run
χ² / ndf 4.016e−30 / 30
p0 1.291 ± 0.3324
3.5
3
2.5
2
1.5
1
0.5
0
−0.5
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
×10⁻¹⁵
0
−0.05
−0.1
−0.15
−0.2
−0.25
−0.3
−0.35
pull
Entries 31
Mean 15.5
Std Dev 8.944

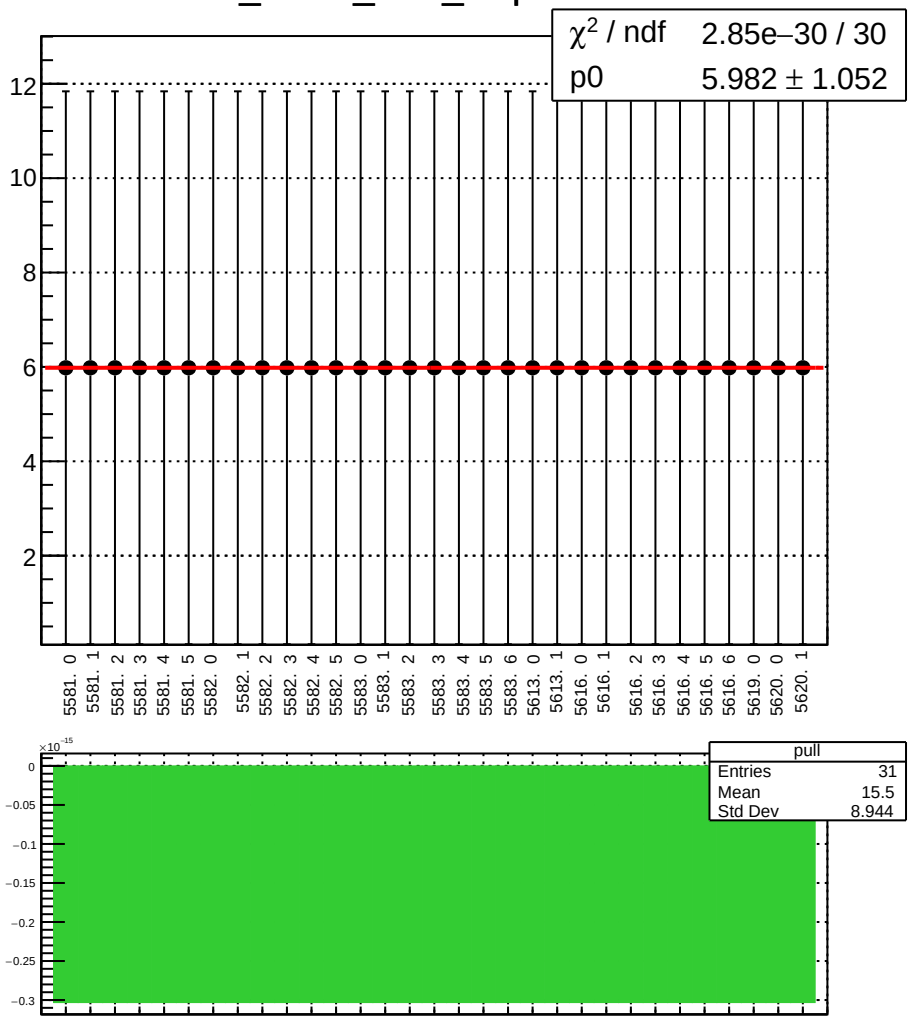

pull1D
Entries 31
Mean −3.6e−16
Std Dev1.238e−23
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

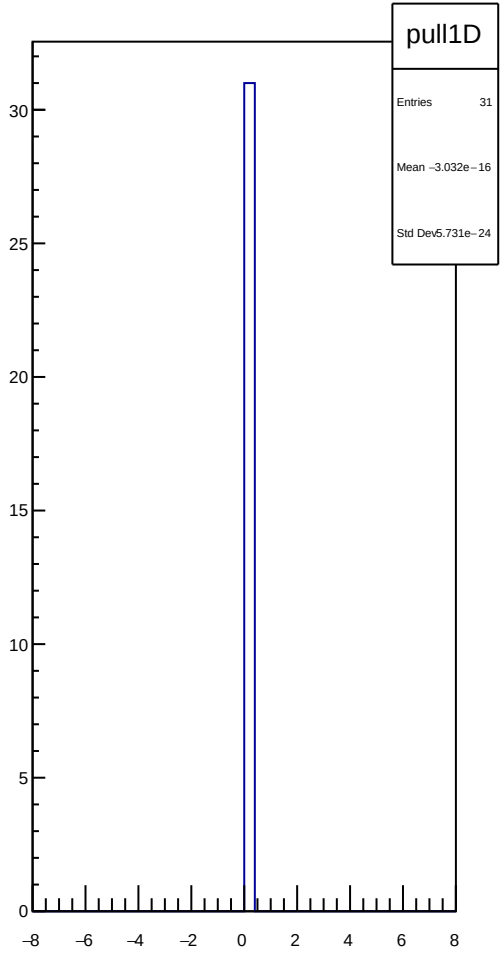

dit_sam6_11X12X_slope vs run
χ² / ndf 1.41e−28 / 30
p0 1.588 ± 0.05609
1.9
1.8
1.7
1.6
1.5
1.4
1.3
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
×10⁻¹⁵
0
−0.5
−1
−1.5
−2
pull
Entries 31
Mean 15.5
Std Dev 8.944

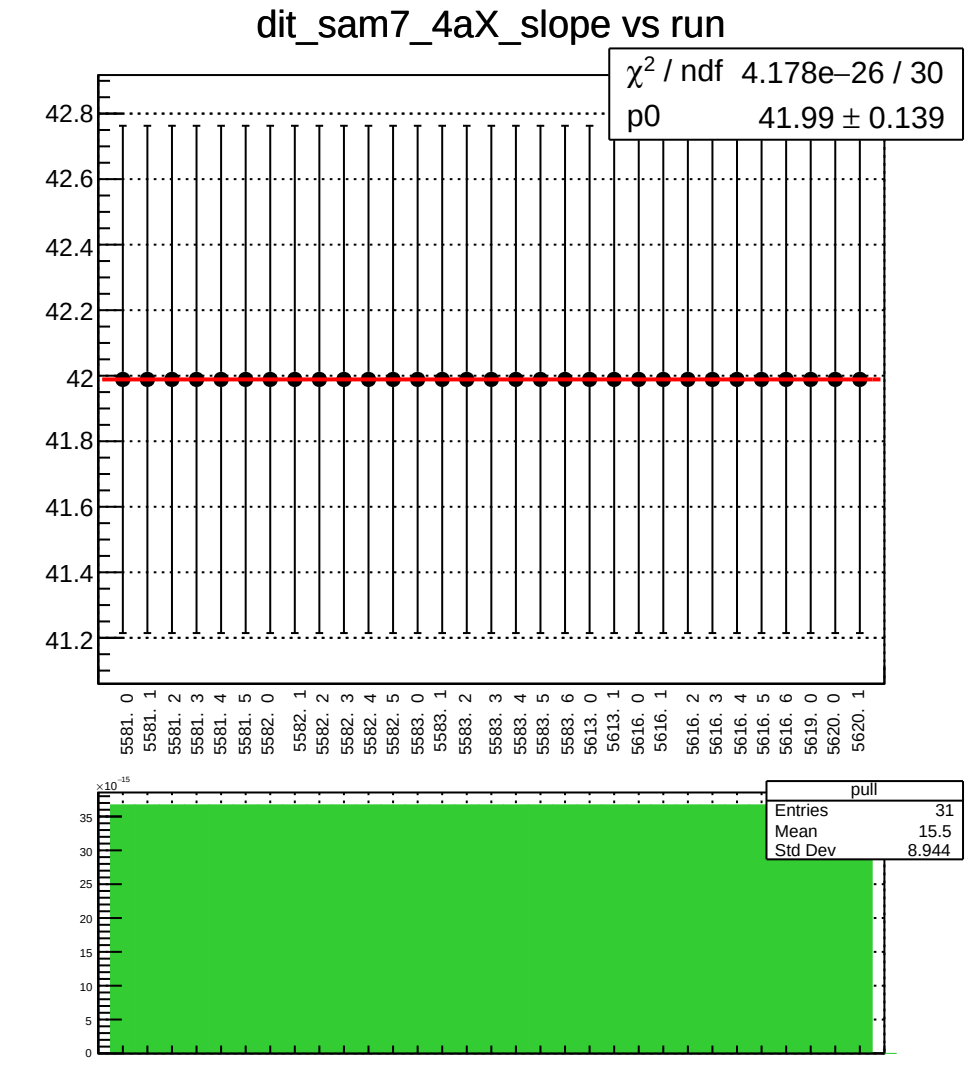

pull1D
Entries 31
Mean −2.133e−15
Std Dev 2.647e−23
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

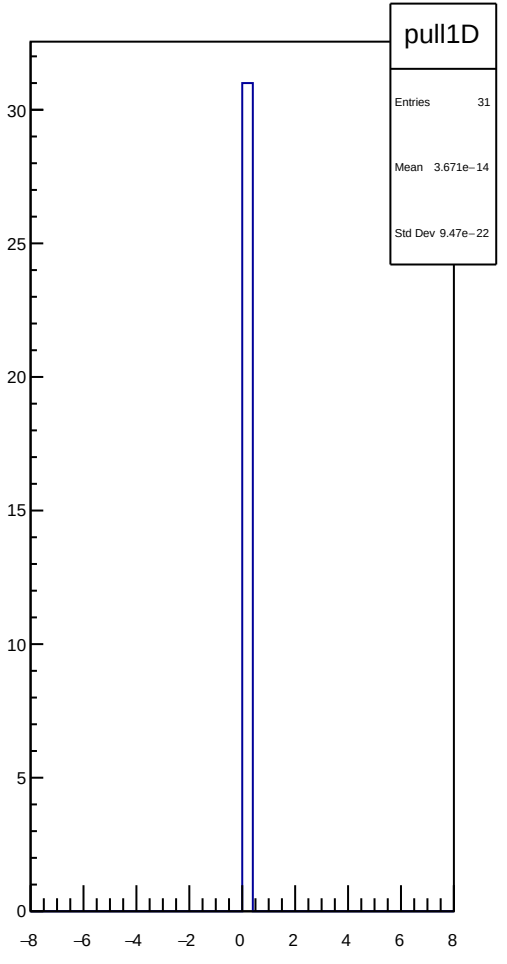

dit_sam6_4aY_slope vs run
χ² / ndf 2.933e−28 / 30
p0 39.75 ± 0.4149
42
41
40
39
38
37
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
×10⁻¹⁵
0
−0.5
−1
−1.5
−2
−2.5
−3
pull
Entries 31
Mean 15.5
Std Dev 8.944

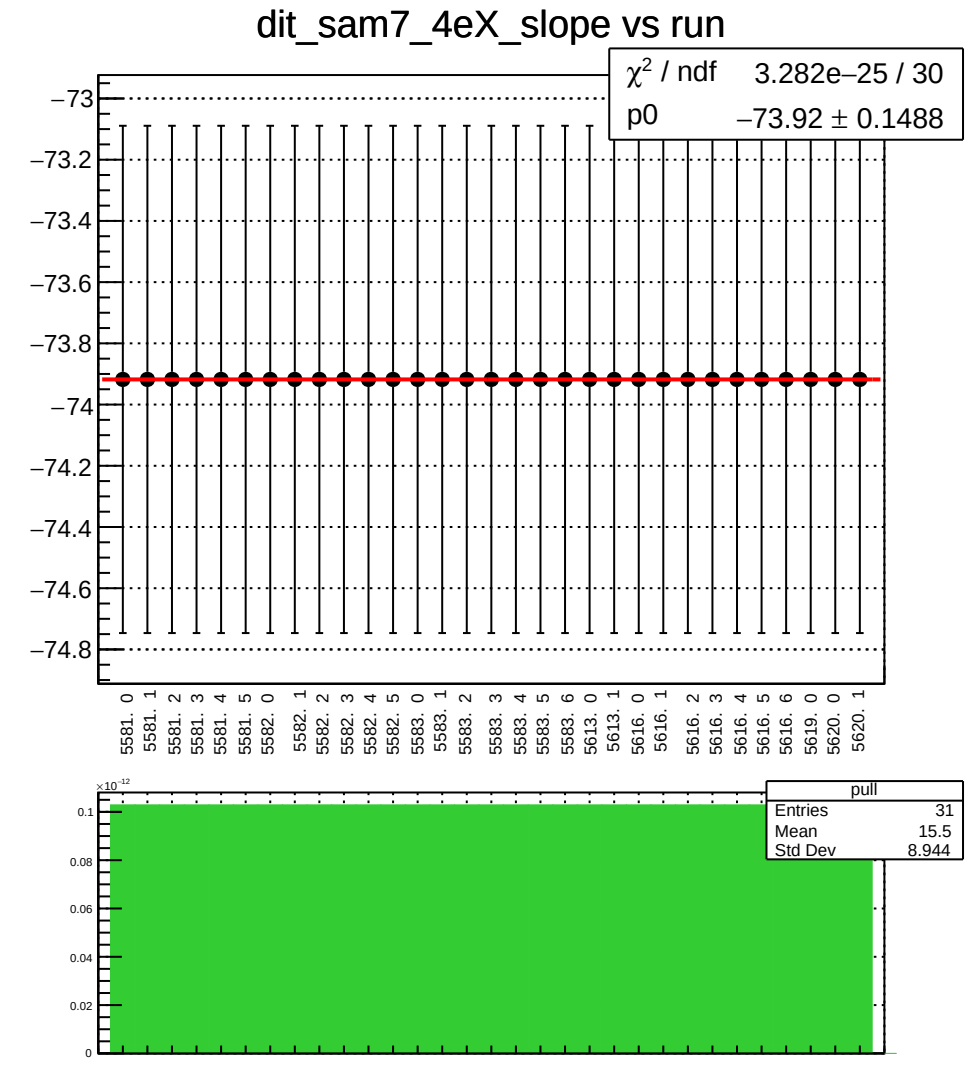

pull1D
Entries 31
Mean −3.076e−15
Std Dev9.904e−23
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

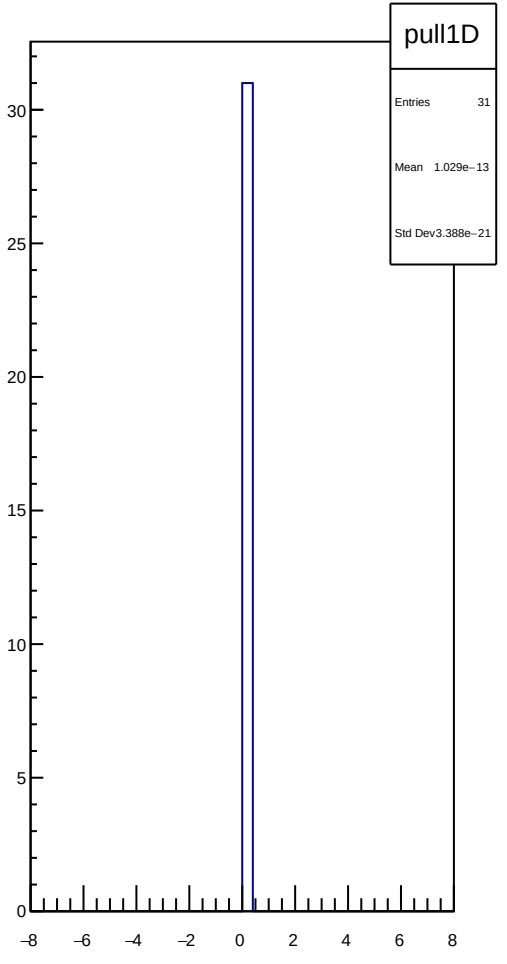

dit_sam6_4eY_slope vs run
χ² / ndf 2.85e−30 / 30
p0 5.982 ± 1.052
12
10
8
6
4
2
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
×10⁻¹⁵
0
−0.05
−0.1
−0.15
−0.2
−0.25
−0.3
pull
Entries 31
Mean 15.5
Std Dev 8.944

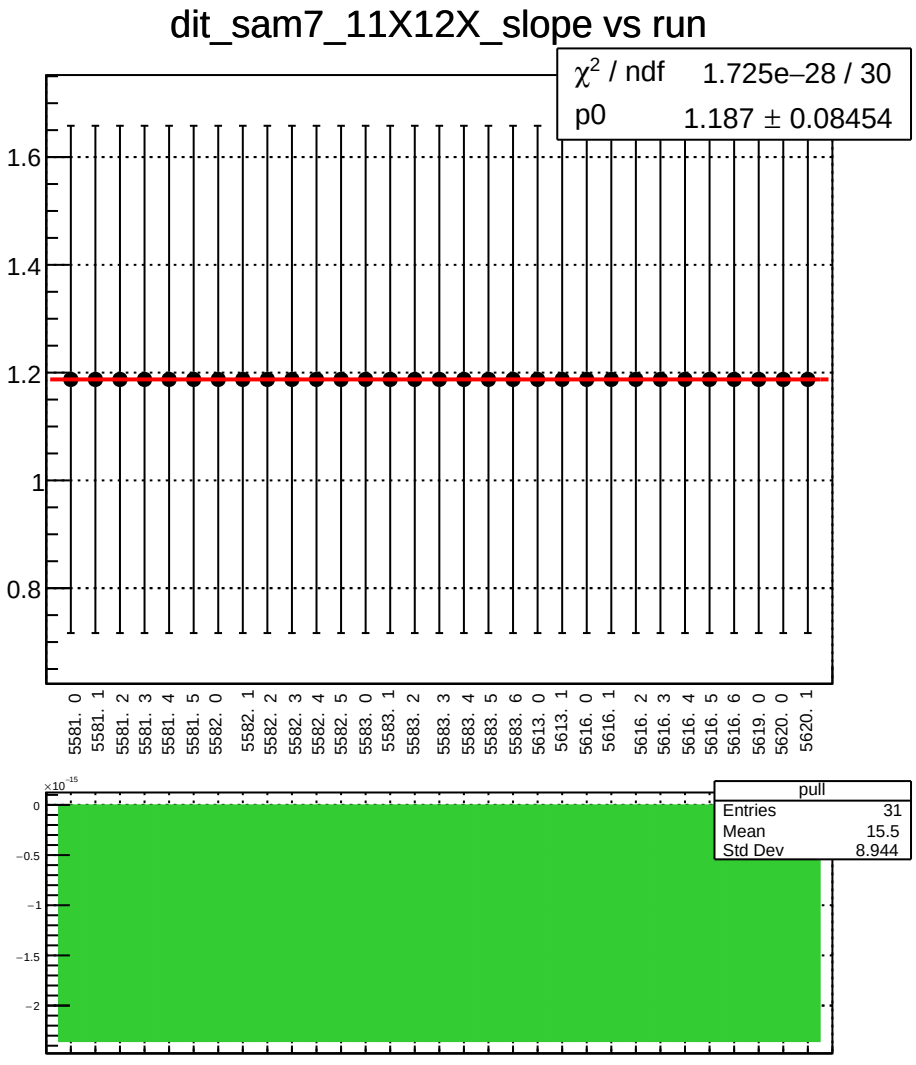

pull1D
Entries 31
Mean −3.032e−16
Std Dev 5.731e−24
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

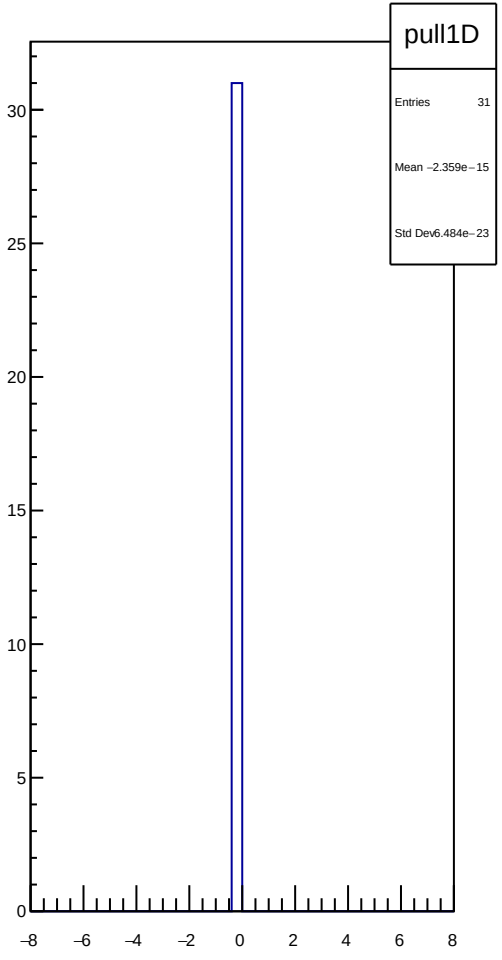

dit_sam7_4aX_slope vs run
χ² / ndf 4.178e−26 / 30
p0 41.99 ± 0.139
42.8
42.6
42.4
42.2
42
41.8
41.6
41.4
41.2
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
×10⁻¹⁵
35
30
25
20
15
10
5
0
pull
Entries 31
Mean 15.5
Std Dev 8.944

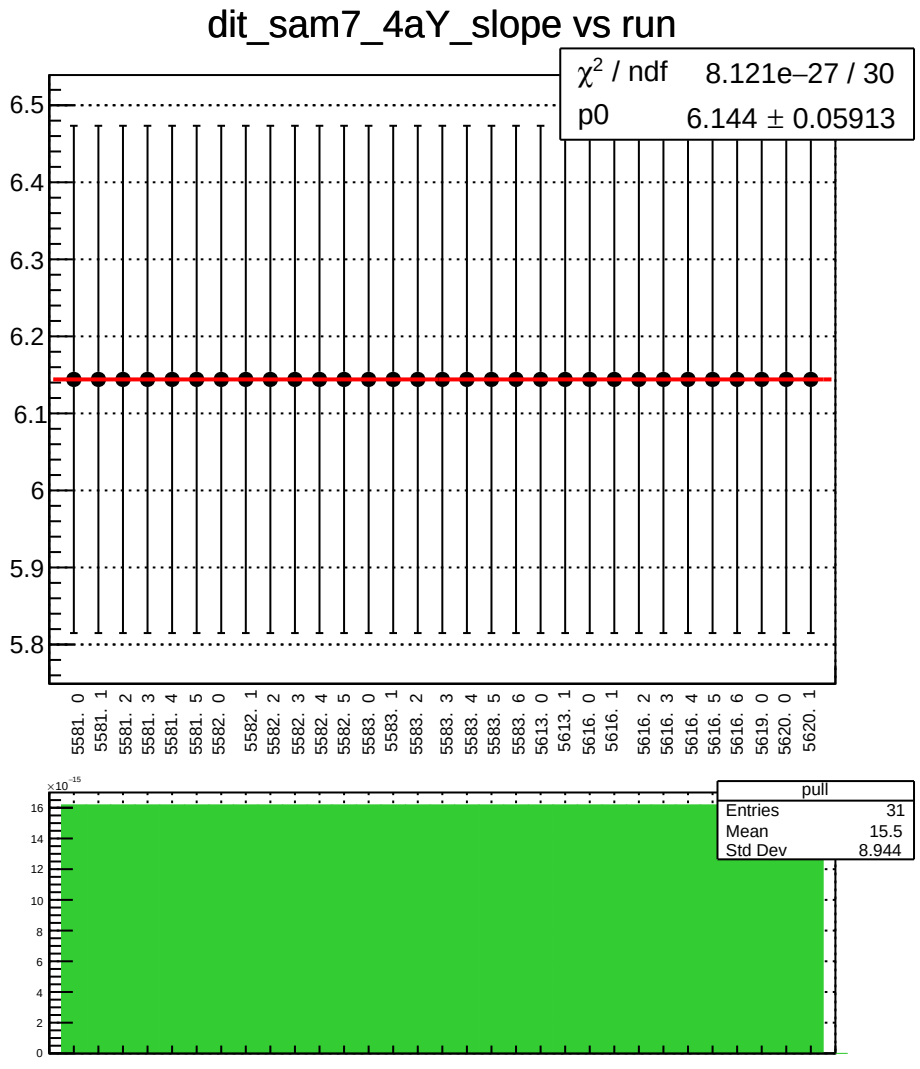

pull1D
Entries 31
Mean 3.671e−14
Std Dev 9.47e−22
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

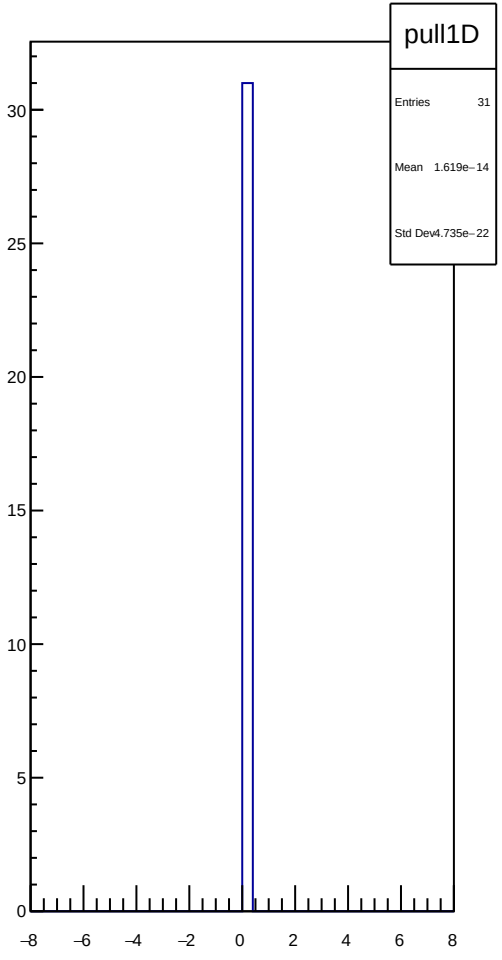

dit_sam7_4eX_slope vs run
χ² / ndf 3.282e−25 / 30
p0 −73.92 ± 0.1488
−73
−73.2
−73.4
−73.6
−73.8
−74
−74.2
−74.4
−74.6
−74.8
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
×10⁻¹²
0.1
0.08
0.06
0.04
0.02
0
pull
Entries 31
Mean 15.5
Std Dev 8.944

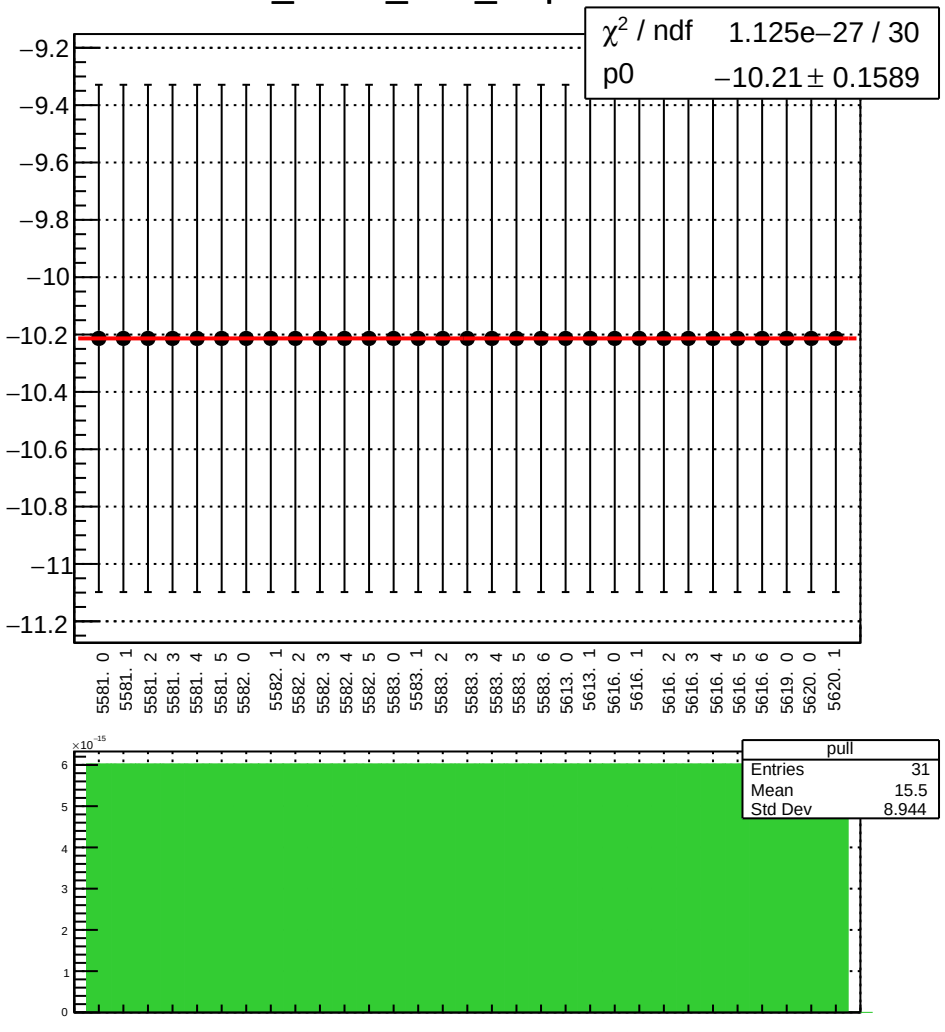

pull1D
Entries 31
Mean 1.029e−13
Std Dev3.388e−21
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

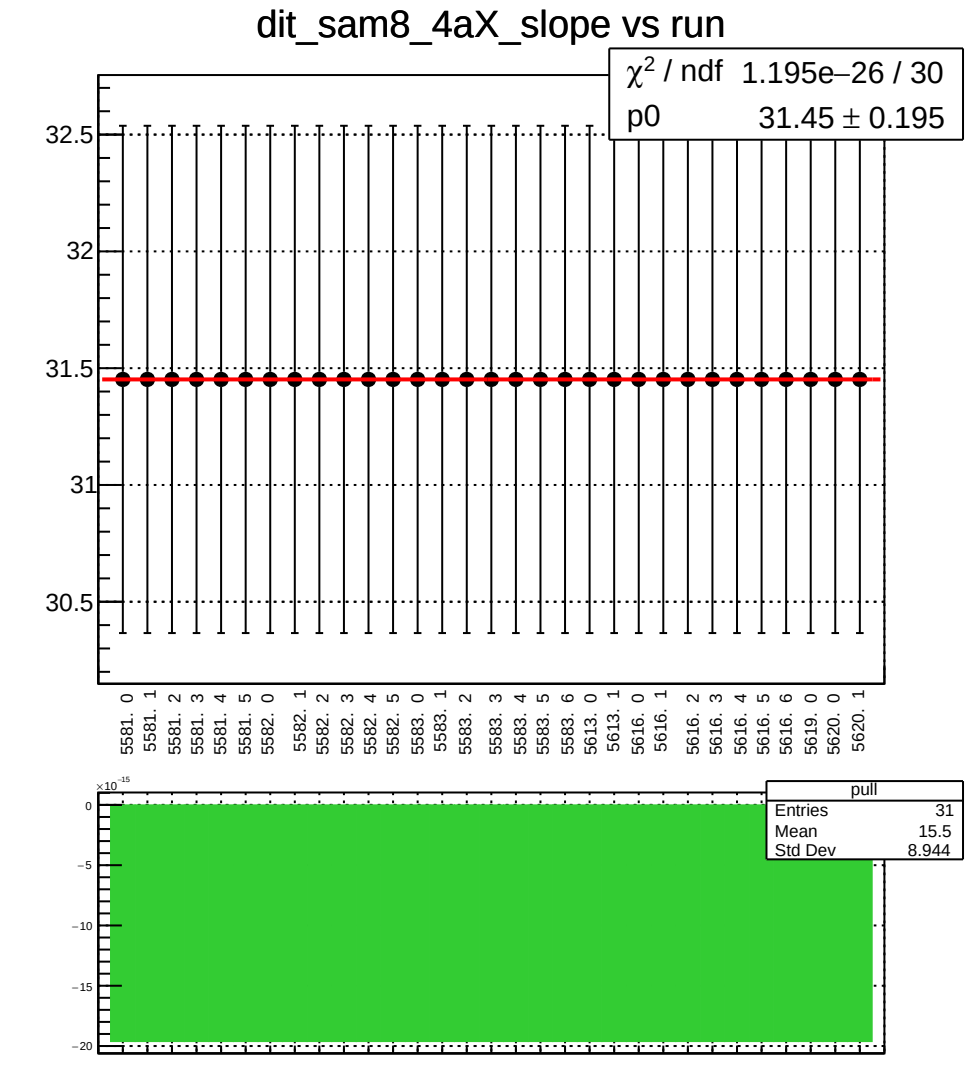

dit_sam7_11X12X_slope vs run
χ² / ndf 1.725e−28 / 30
p0 1.187 ± 0.08454
1.6
1.4
1.2
1
0.8
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
×10⁻¹⁵
0
−0.5
−1
−1.5
−2
pull
Entries 31
Mean 15.5
Std Dev 8.944

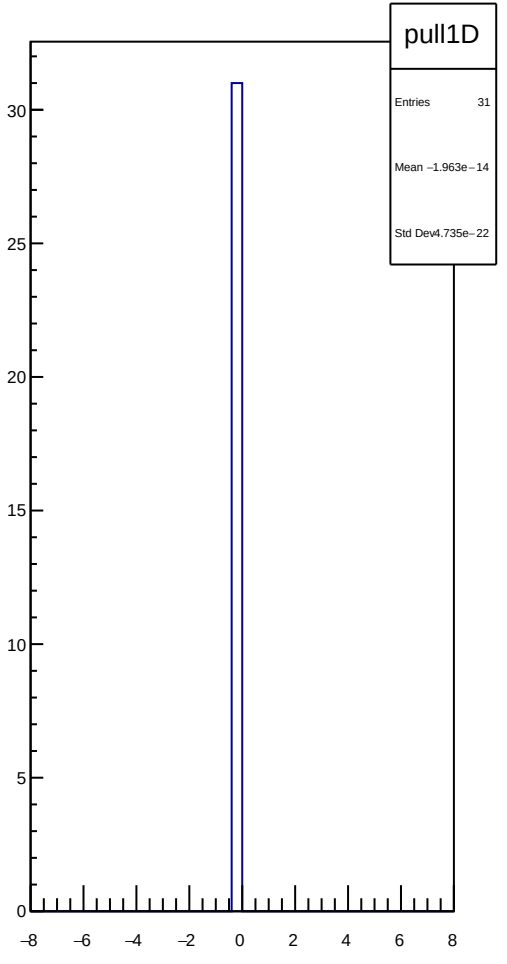

pull1D
Entries 31
Mean −2.359e−15
Std Dev 6.484e−23
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

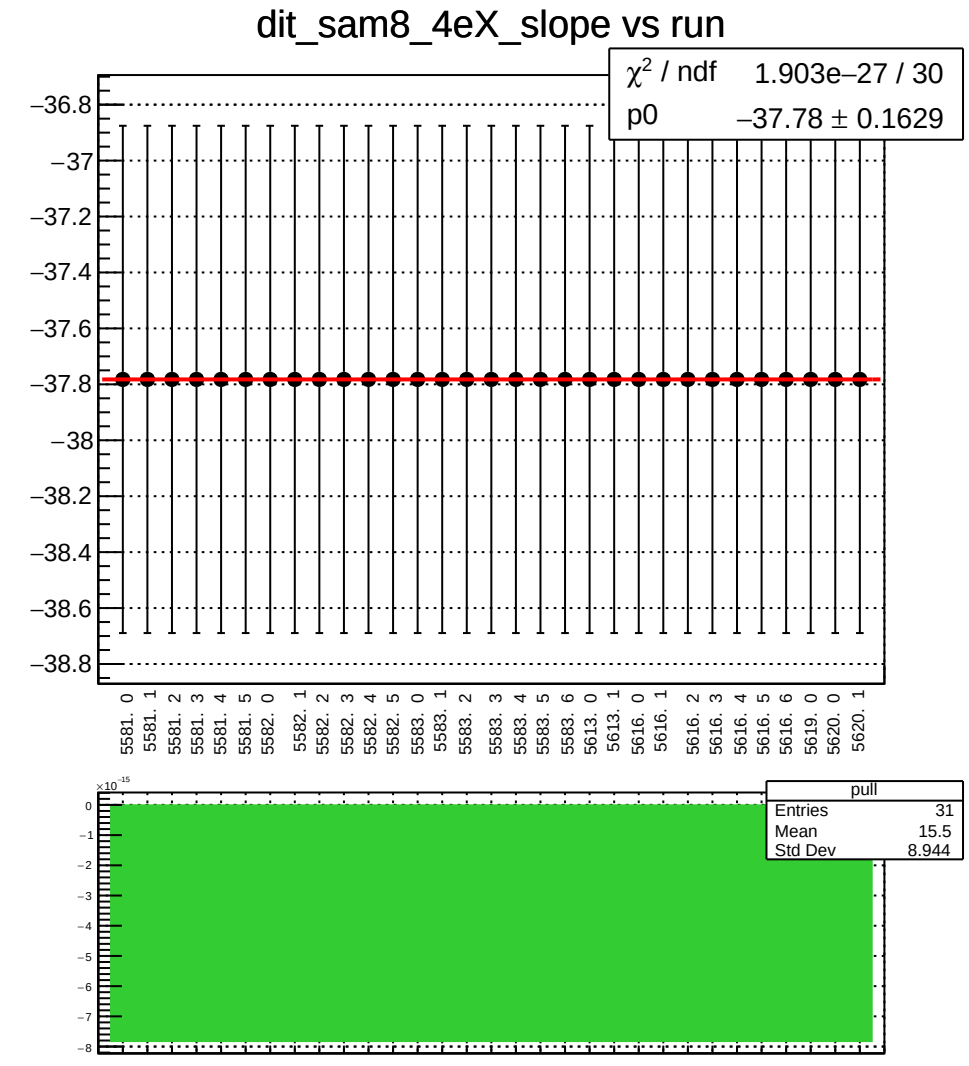

dit_sam7_4aY_slope vs run
χ² / ndf 8.121e−27 / 30
p0 6.144 ± 0.05913
6.5
6.4
6.3
6.2
6.1
6
5.9
5.8
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
×10⁻¹⁵
16
14
12
10
8
6
4
2
0
pull
Entries 31
Mean 15.5
Std Dev 8.944

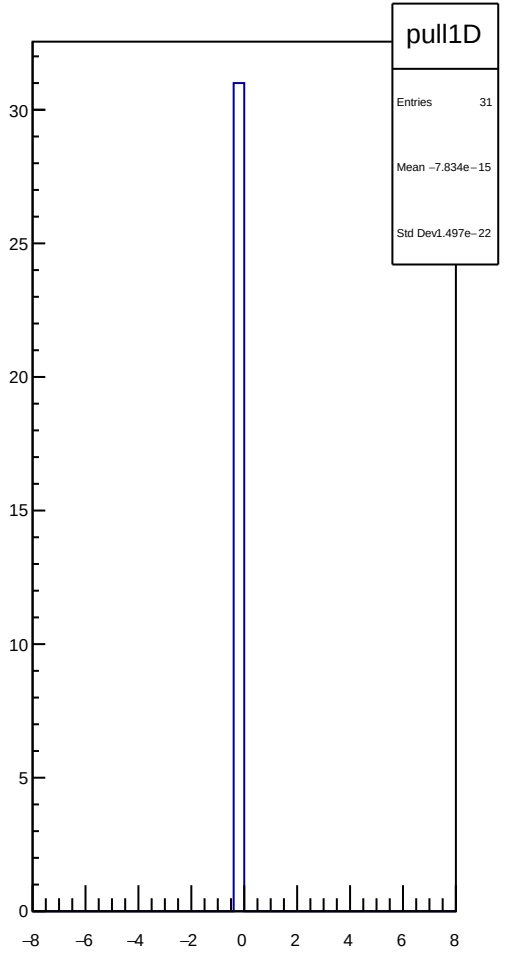

pull1D
Entries 31
Mean 1.619e−14
Std Dev4.735e−22
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

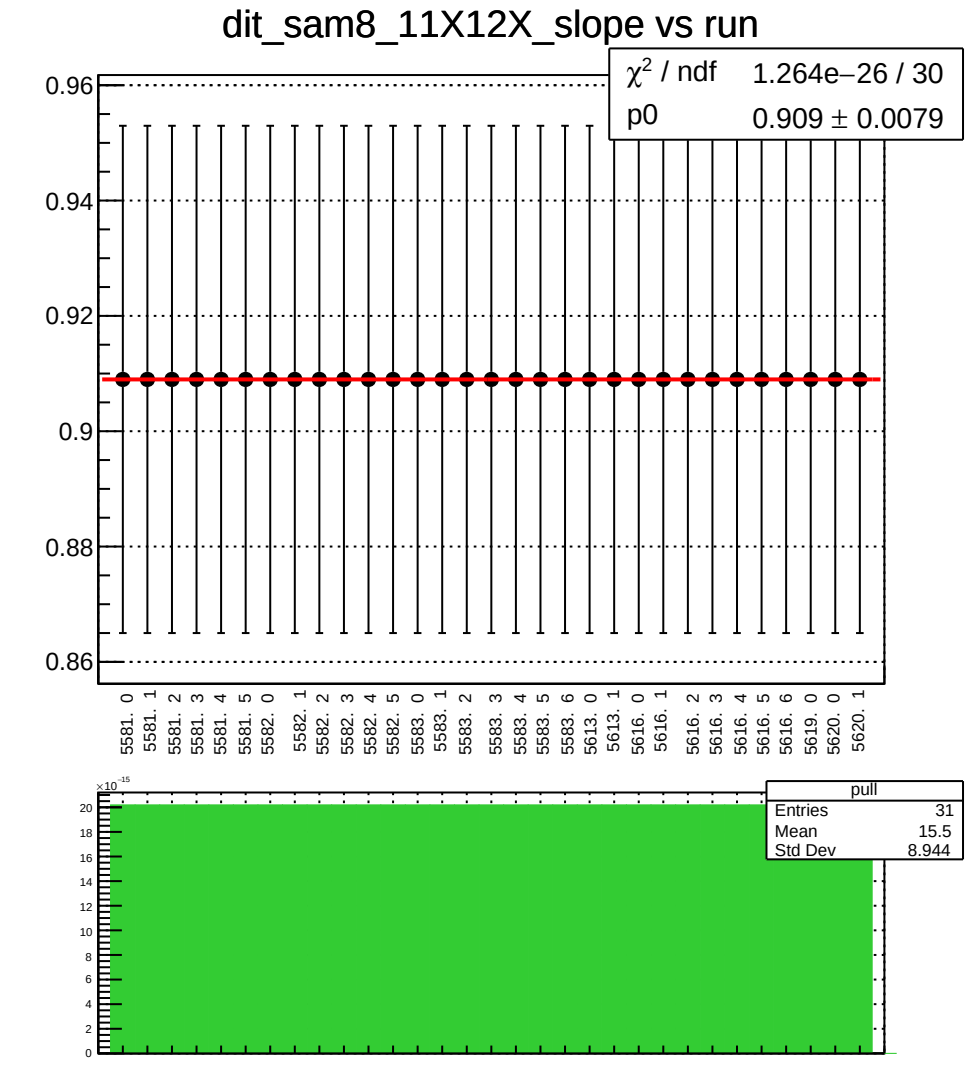

dit_sam7_4eY_slope vs run
χ^2 / ndf 1.125e−27 / 30
p0 −10.21 ± 0.1589
−9.2
−9.4
−9.6
−9.8
−10
−10.2
−10.4
−10.6
−10.8
−11
−11.2
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
×10⁻¹⁵
pull
Entries 31
Mean 15.5
Std Dev 8.944
pull1D
Entries 31
Mean 6.025e−15
Std Dev1.981e−22

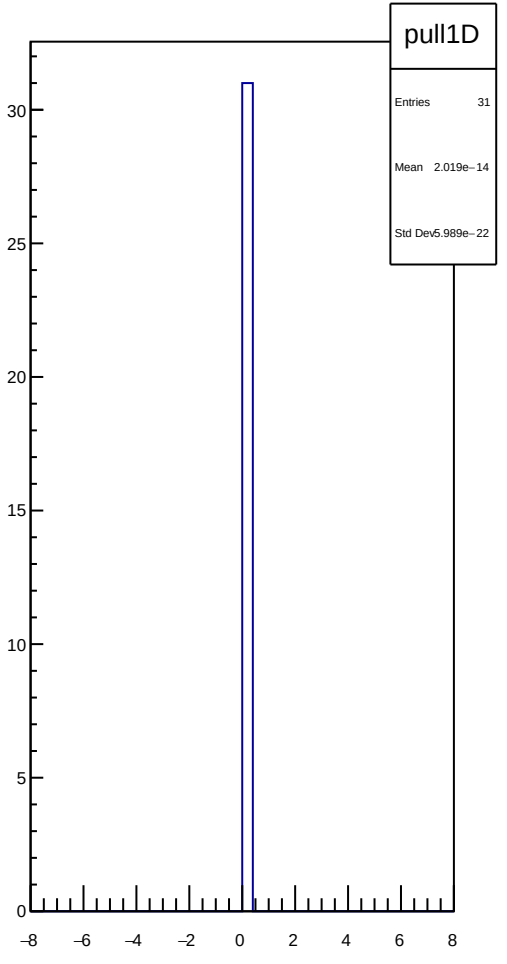

dit_sam8_4aX_slope vs run
χ² / ndf 1.195e−26 / 30
p0 31.45 ± 0.195
32.5
32
31.5
31
30.5
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
×10⁻¹⁵
0
−5
−10
−15
−20
pull
Entries 31
Mean 15.5
Std Dev 8.944

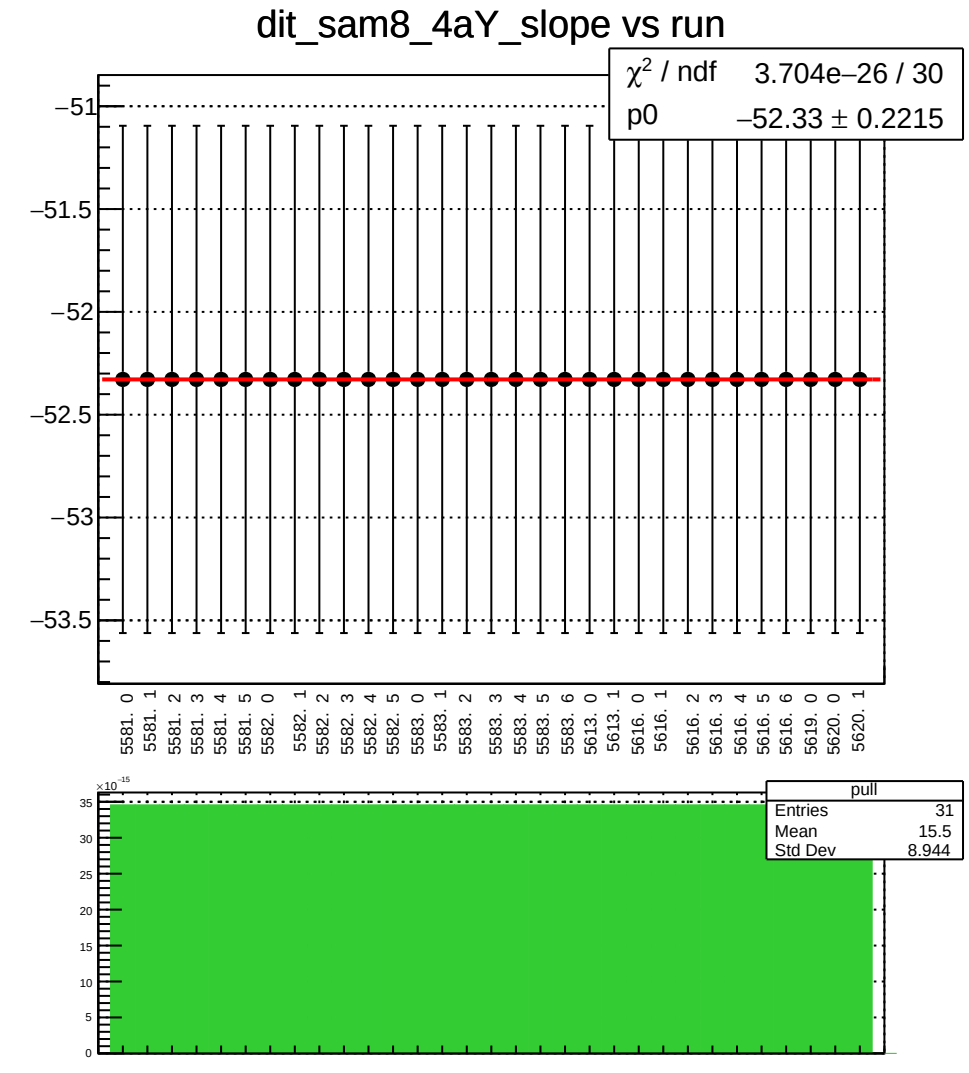

pull1D
Entries 31
Mean −1.963e−14
Std Dev4.735e−22
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

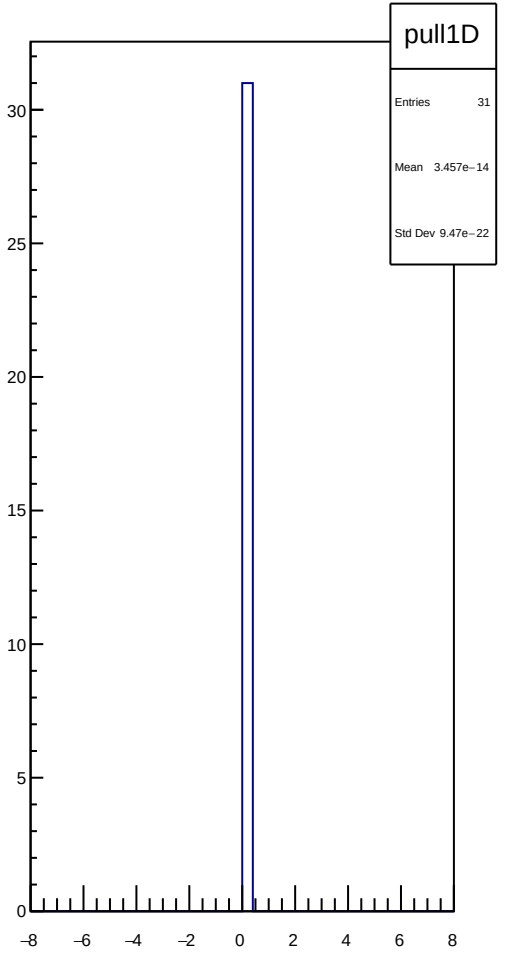

dit_sam8_4eX_slope vs run
χ² / ndf 1.903e−27 / 30
p0 −37.78 ± 0.1629
−36.8
−37
−37.2
−37.4
−37.6
−37.8
−38
−38.2
−38.4
−38.6
−38.8
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
×10⁻¹⁵
pull
Entries 31
Mean 15.5
Std Dev 8.944

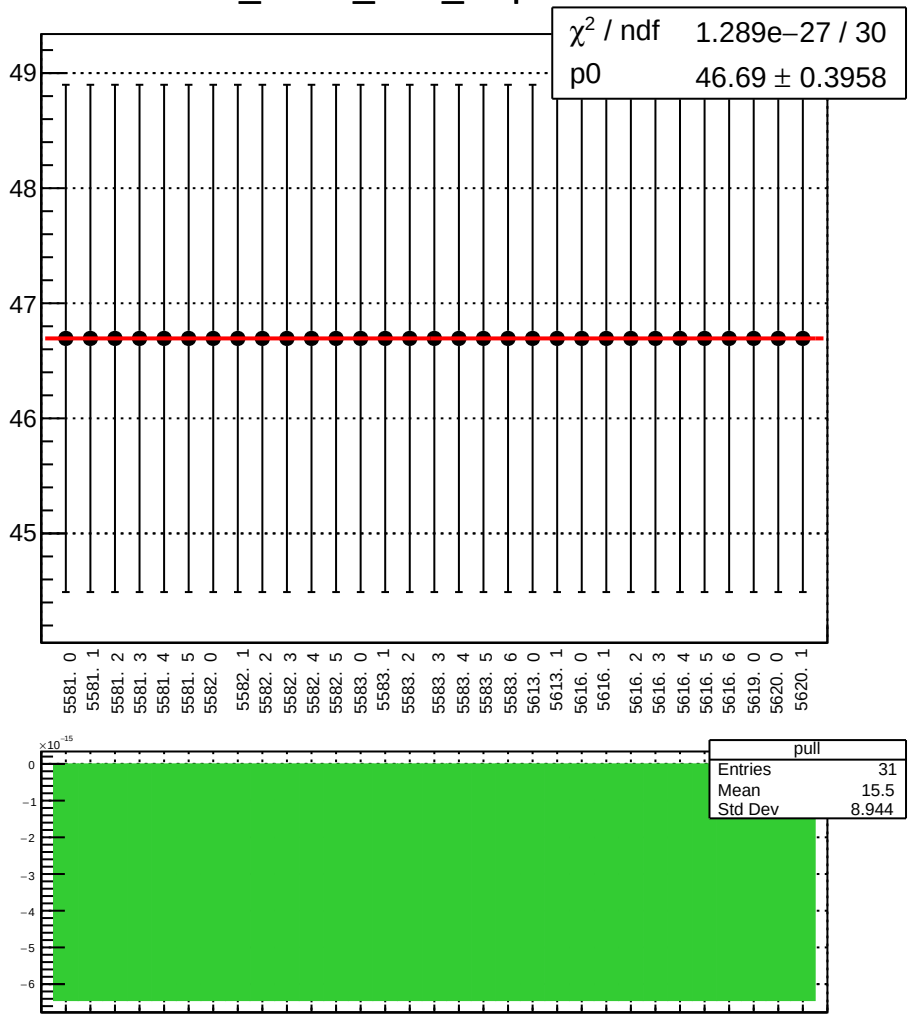

pull1D
Entries 31
Mean −7.834e−15
Std Dev1.497e−22

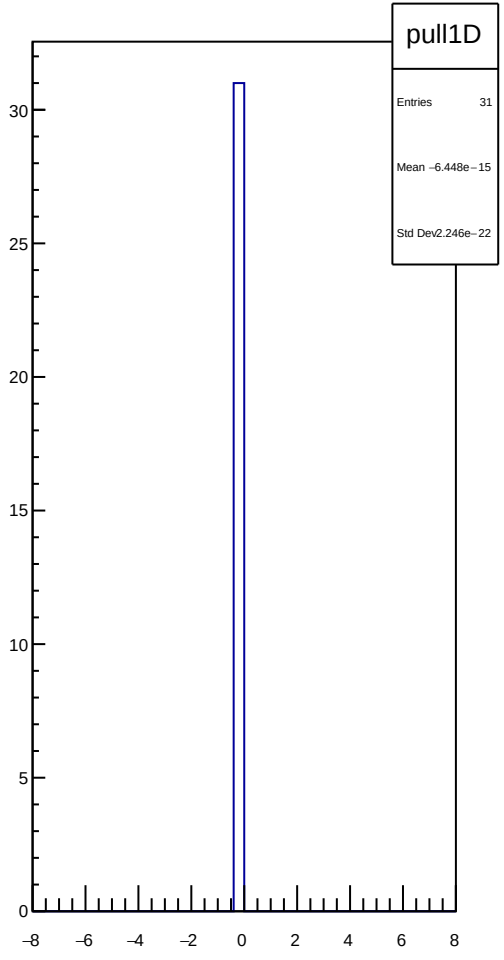

dit_sam8_11X12X_slope vs run
χ² / ndf 1.264e−26 / 30
p0 0.909 ± 0.0079
0.96
0.94
0.92
0.9
0.88
0.86
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
×10⁻¹⁵
20
18
16
14
12
10
8
6
4
2
0
pull
Entries 31
Mean 15.5
Std Dev 8.944

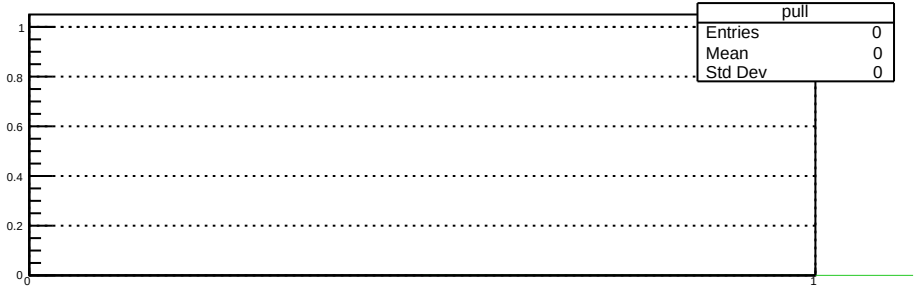

pull1D
Entries 31
Mean 2.019e−14
Std Dev 5.989e−22
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

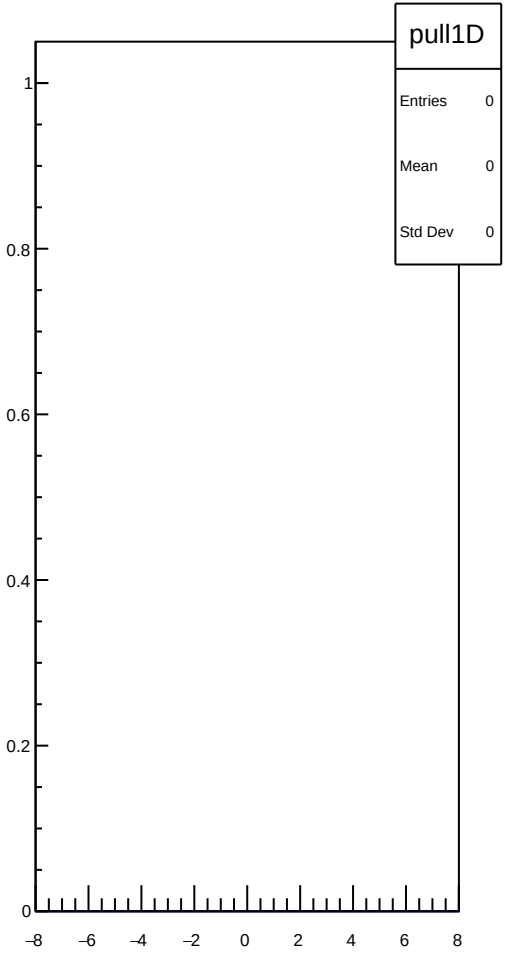

dit_sam8_4aY_slope vs run
χ² / ndf 3.704e−26 / 30
p0 −52.33 ± 0.2215
−51
−51.5
−52
−52.5
−53
−53.5
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
×10⁻¹⁵
pull
Entries 31
Mean 15.5
Std Dev 8.944

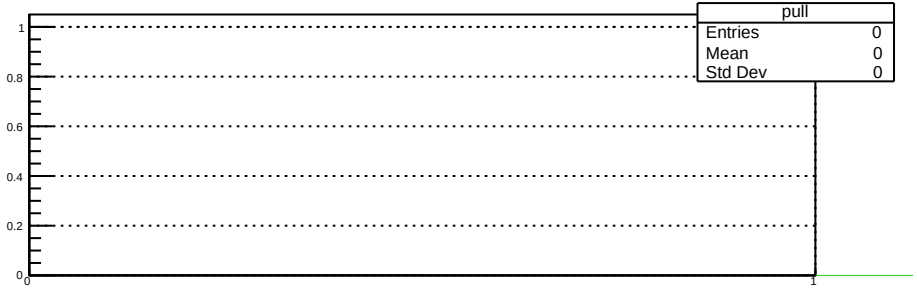

pull1D
Entries 31
Mean 3.457e−14
Std Dev 9.47e−22

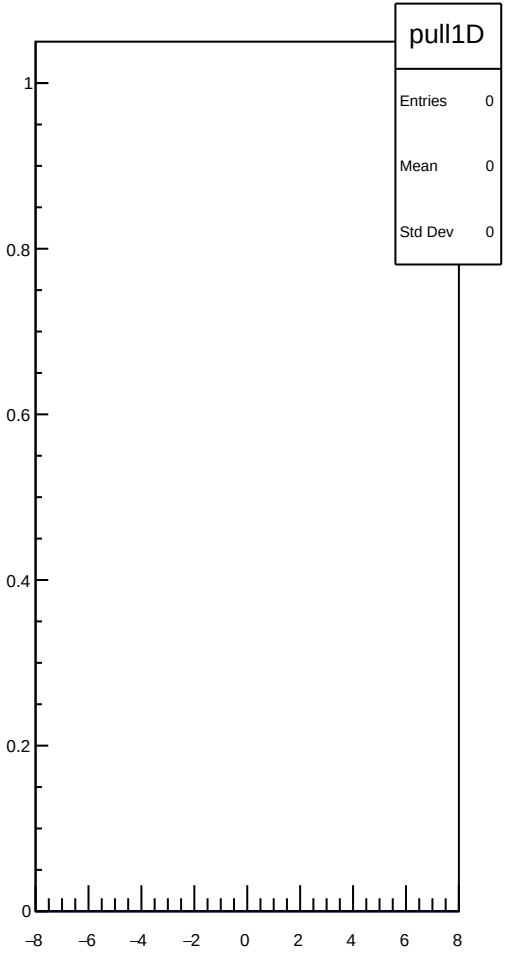

dit_sam8_4eY_slope vs run
χ² / ndf 1.289e−27 / 30
p0 46.69 ± 0.3958
49
48
47
46
45
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
×10⁻¹⁵
0
−1
−2
−3
−4
−5
−6
pull
Entries 31
Mean 15.5
Std Dev 8.944

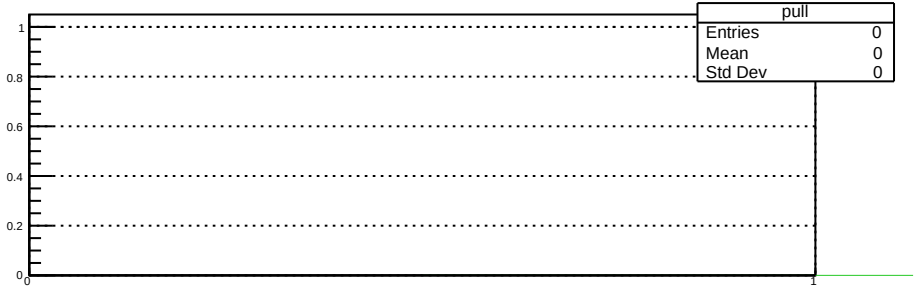

pull1D
Entries 31
Mean −6.448e−15
Std Dev 2.246e−22
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

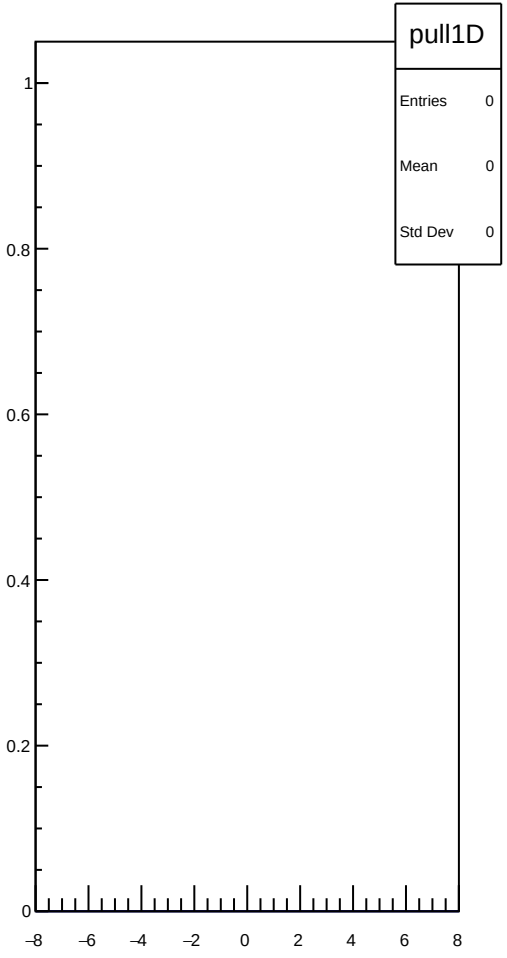

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

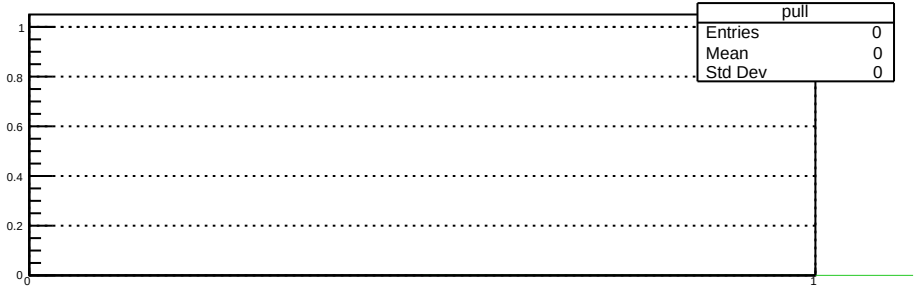

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

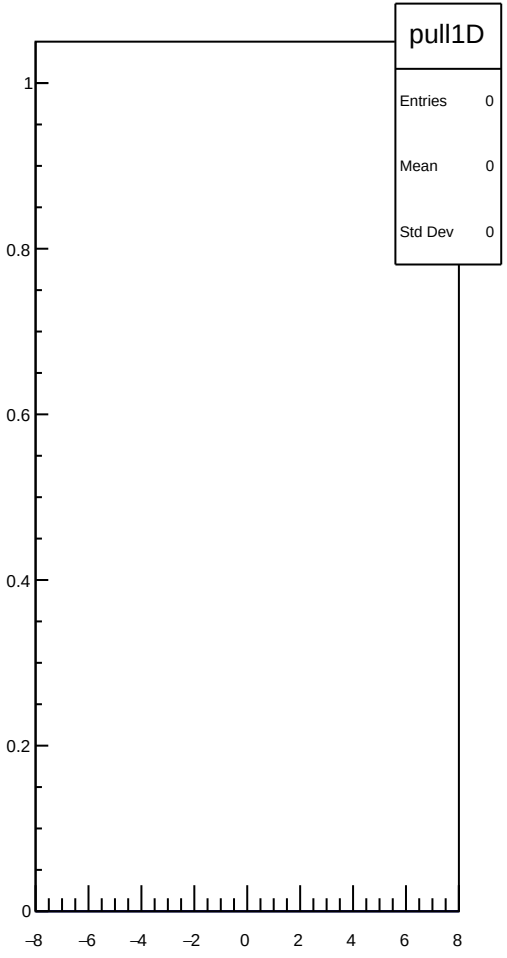

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

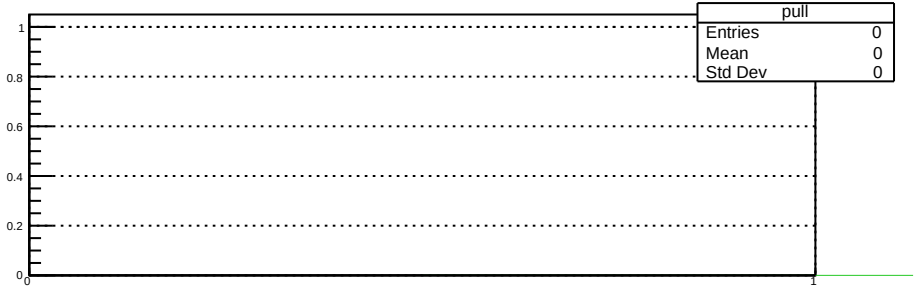

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

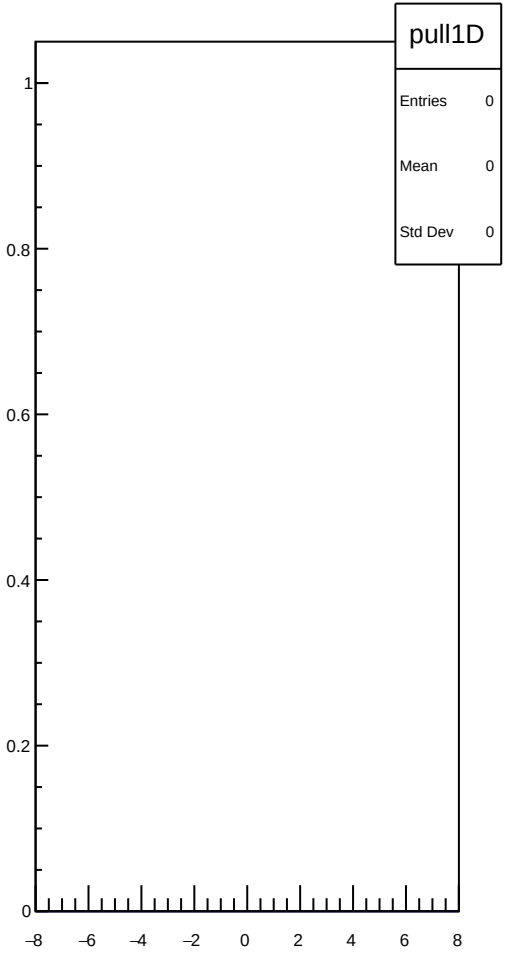

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1


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


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


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


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


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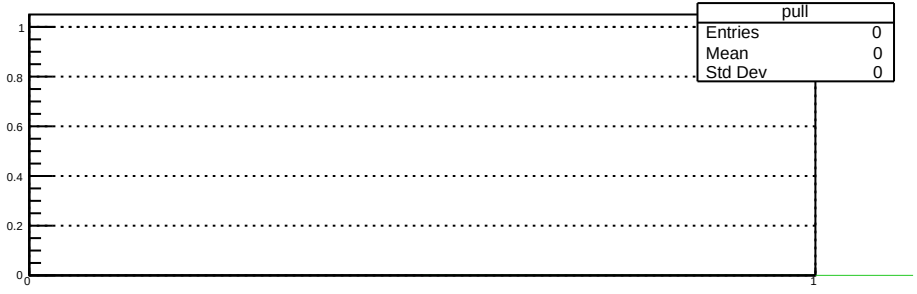
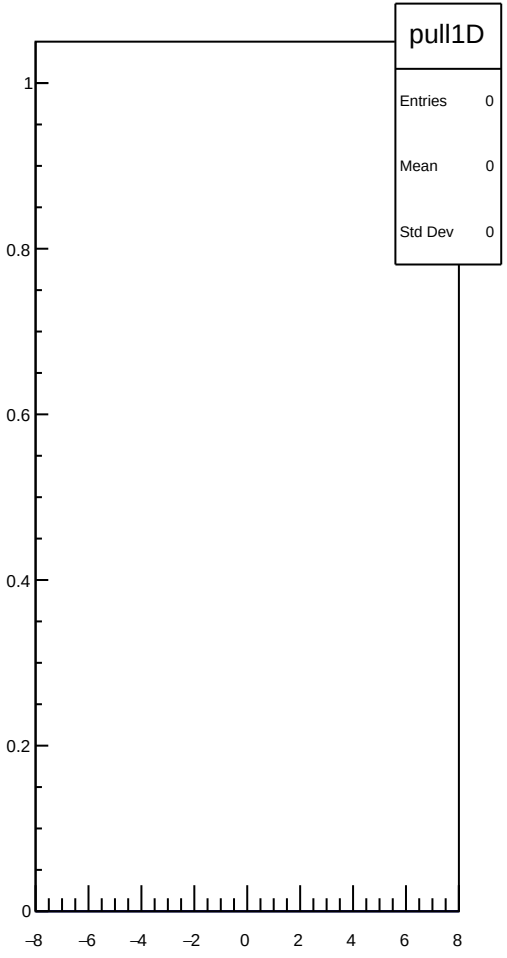
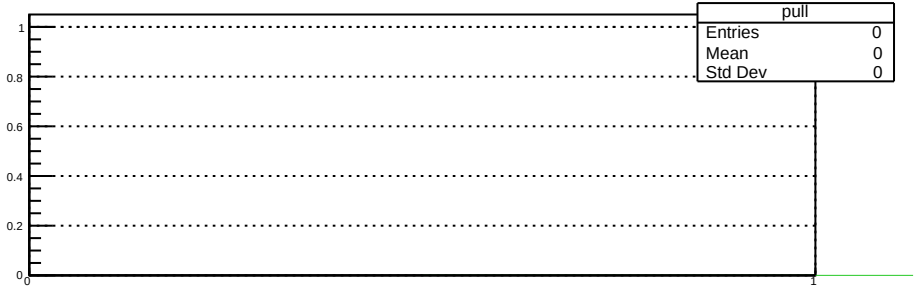
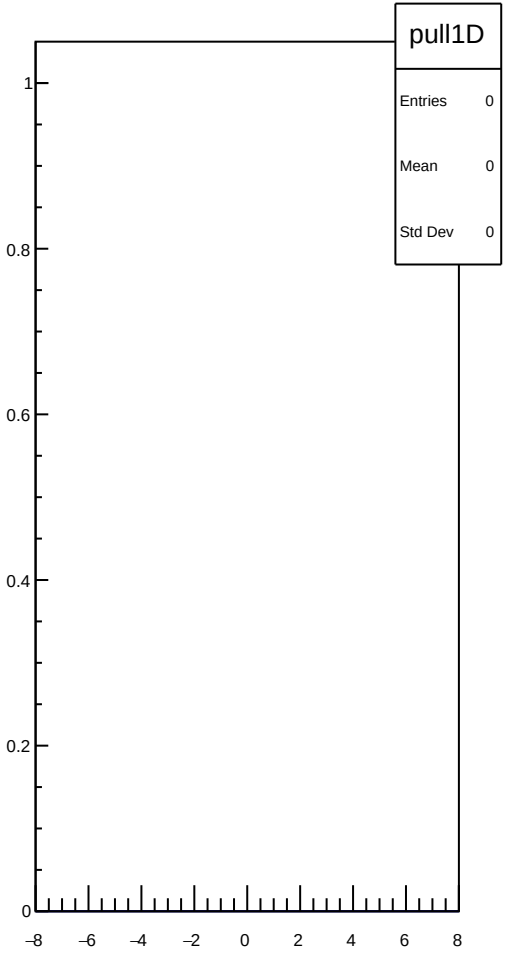
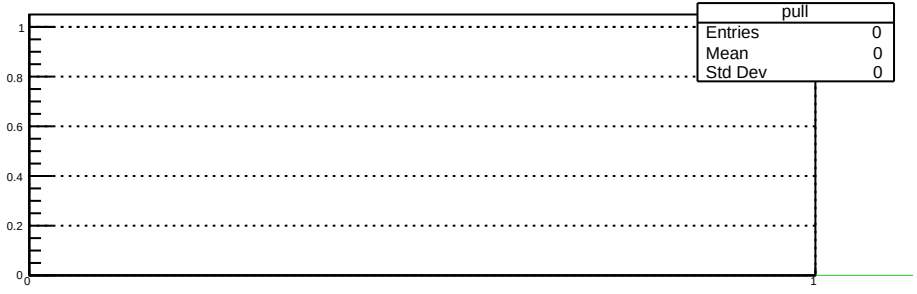
0
2
4
6
8

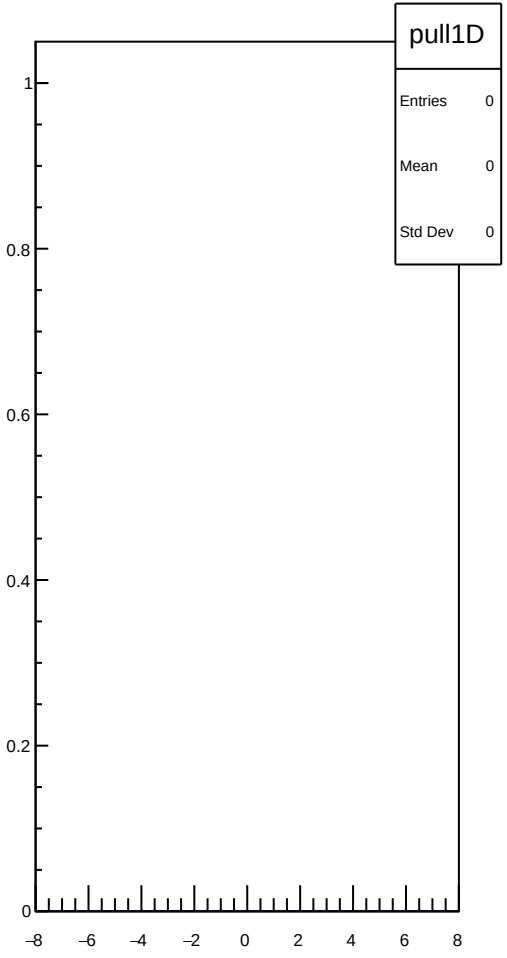

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1


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


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


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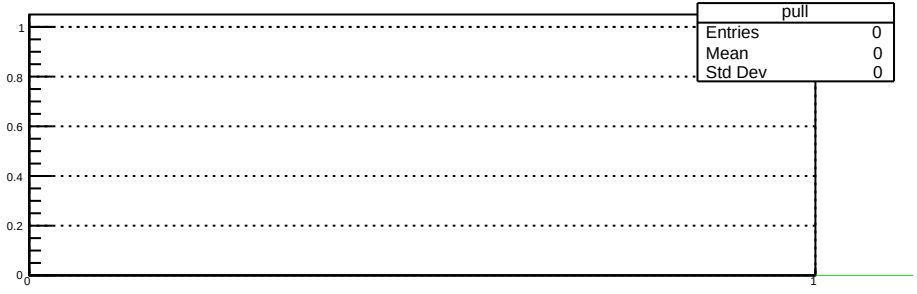
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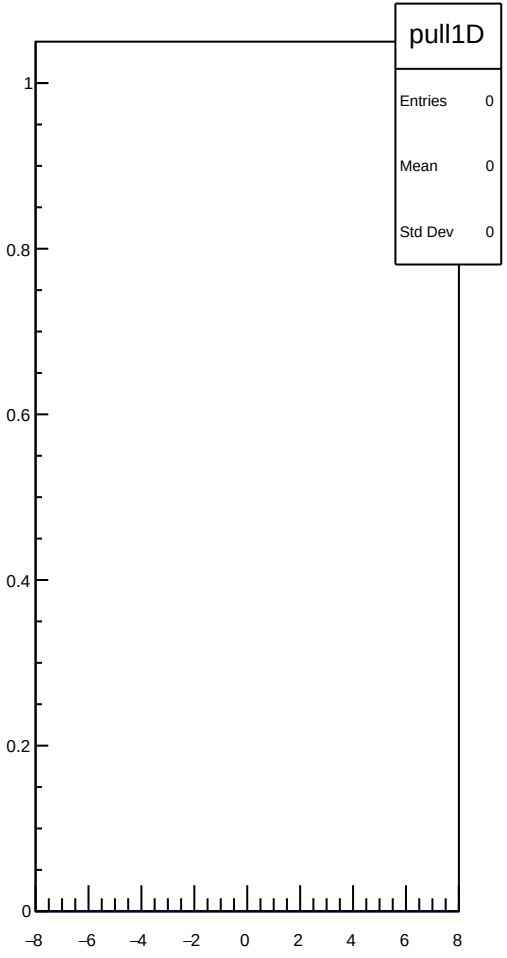
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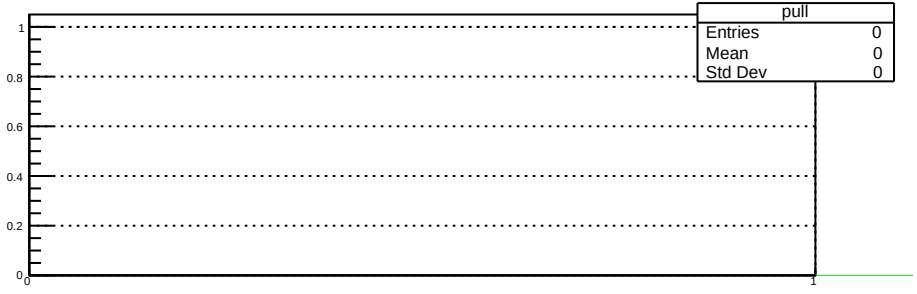
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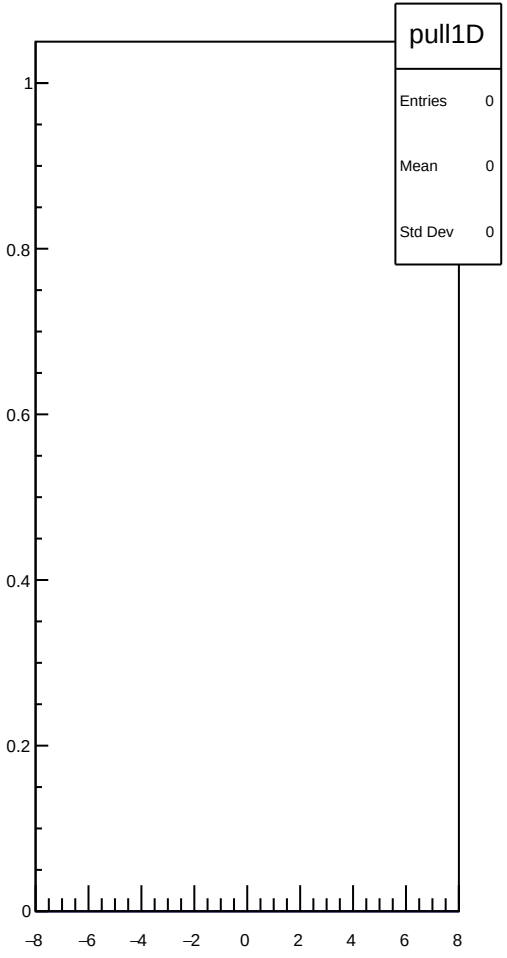
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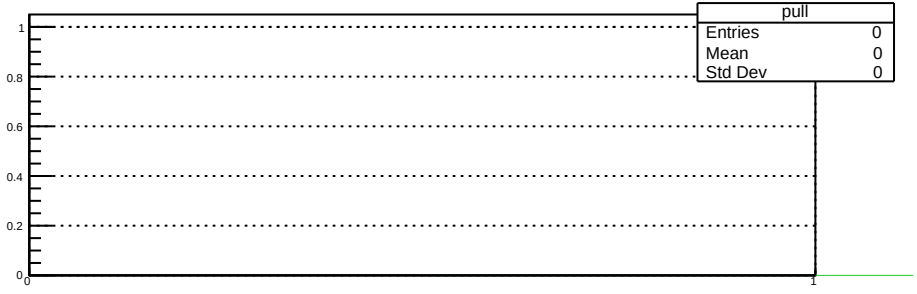
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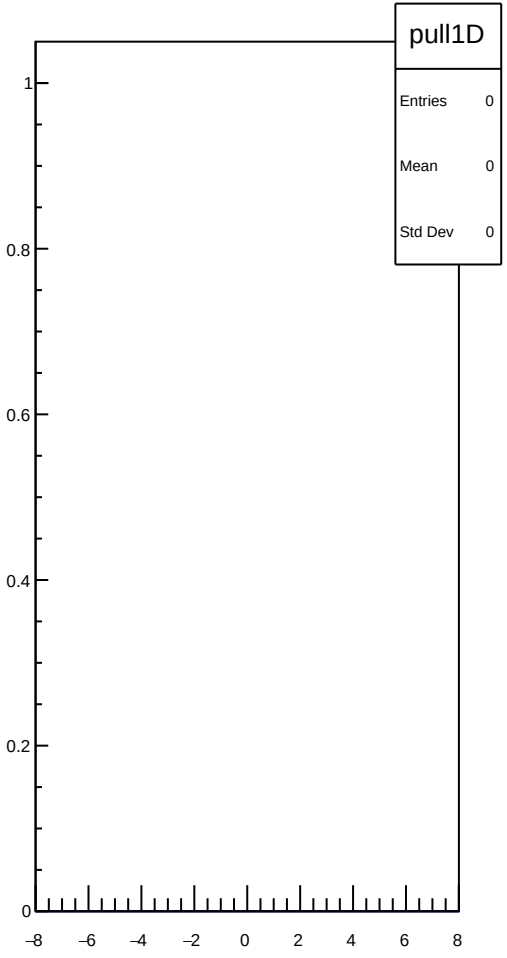
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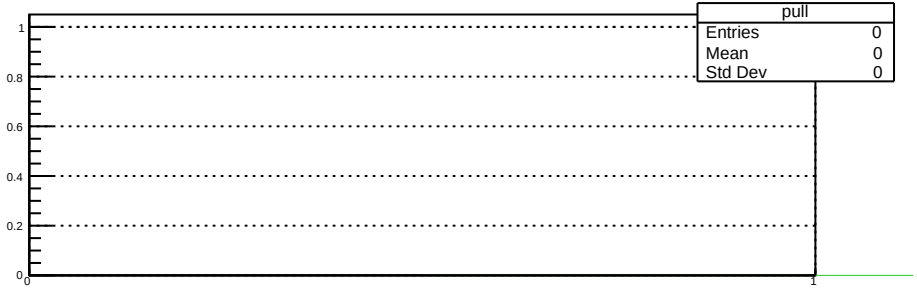
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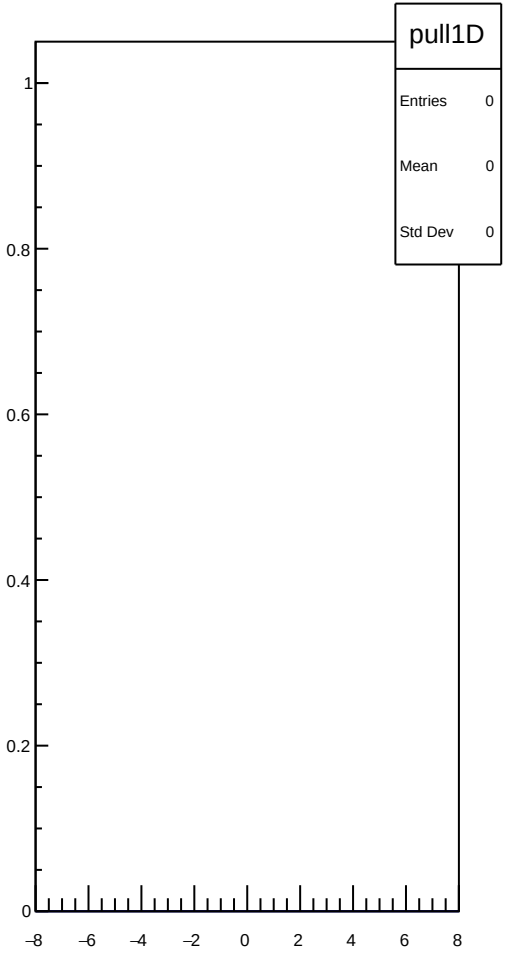
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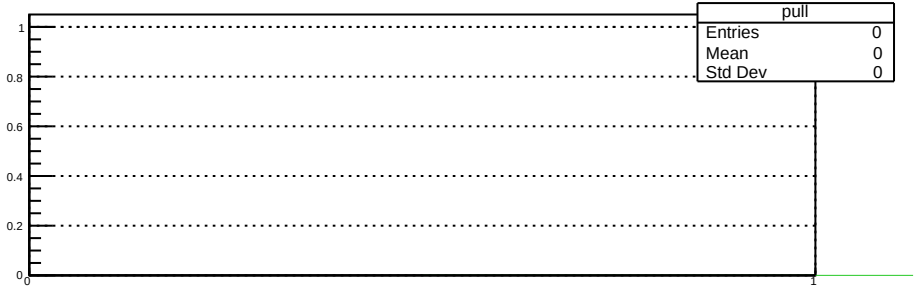
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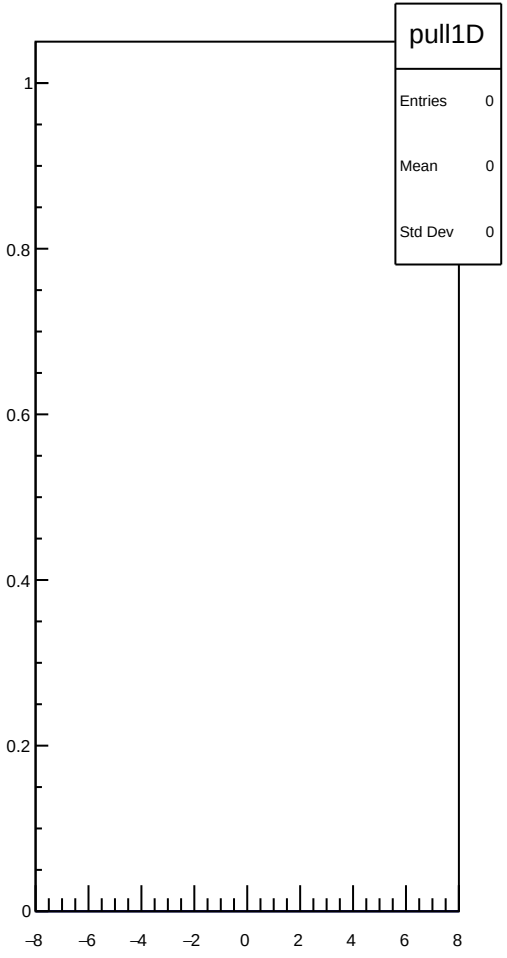
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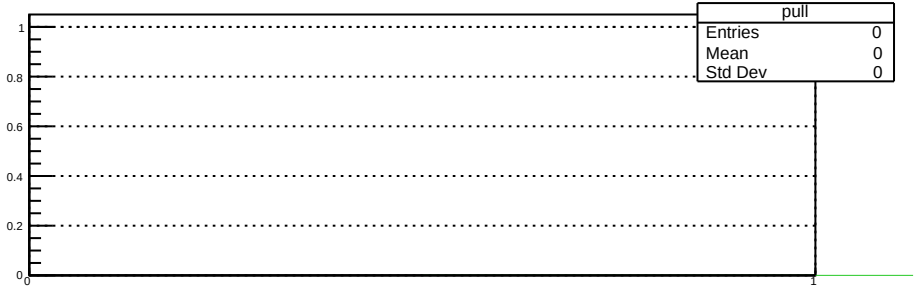
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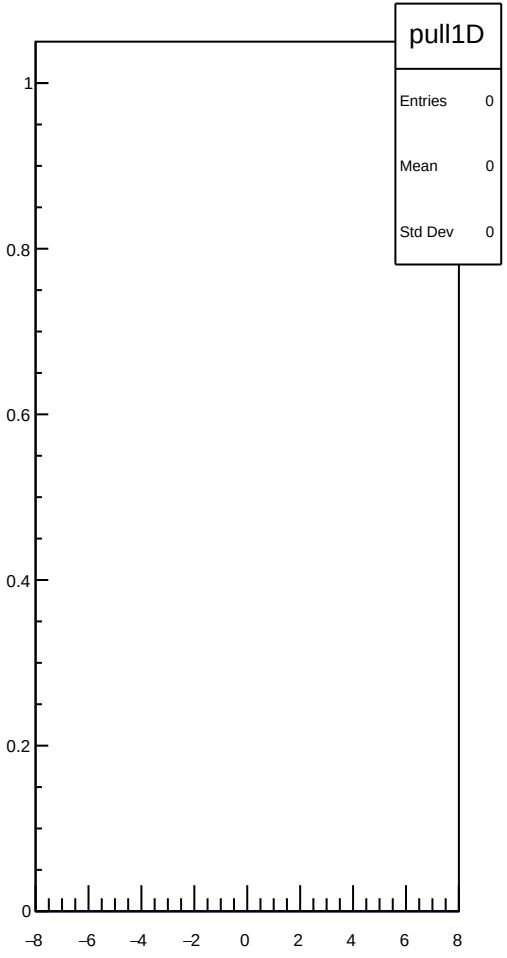
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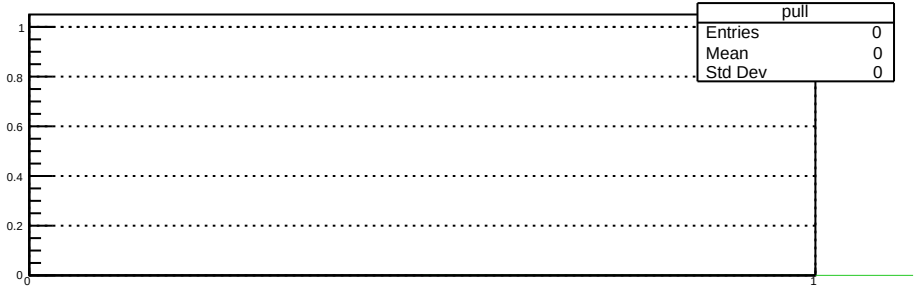
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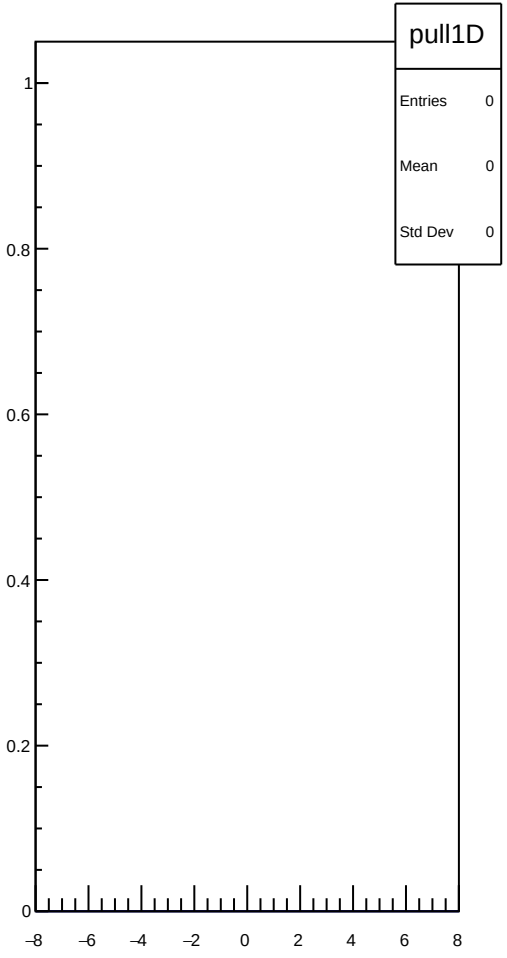
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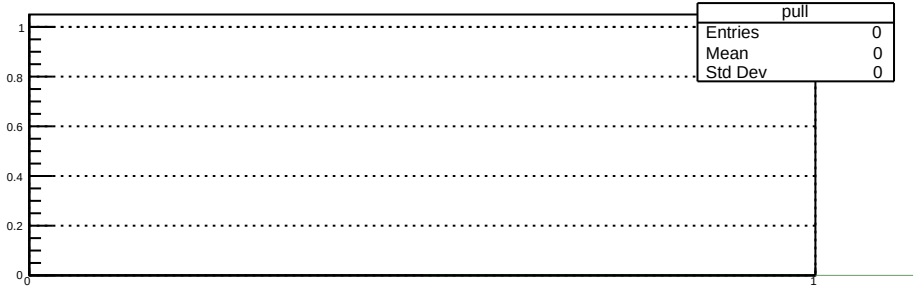
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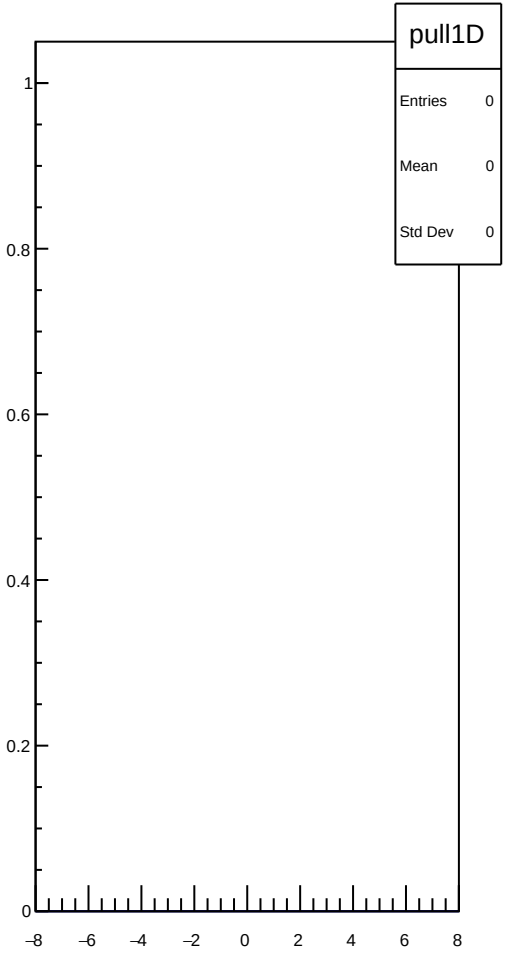
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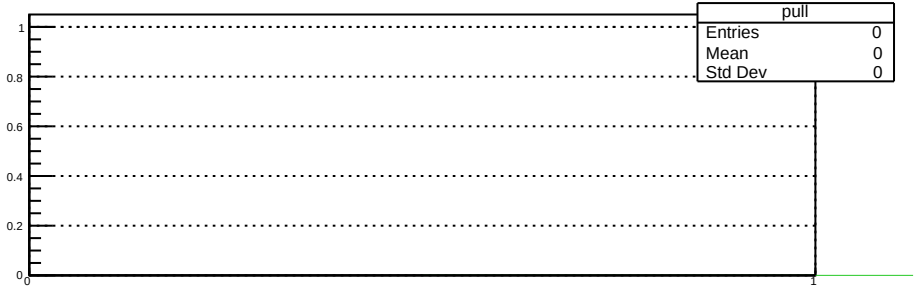
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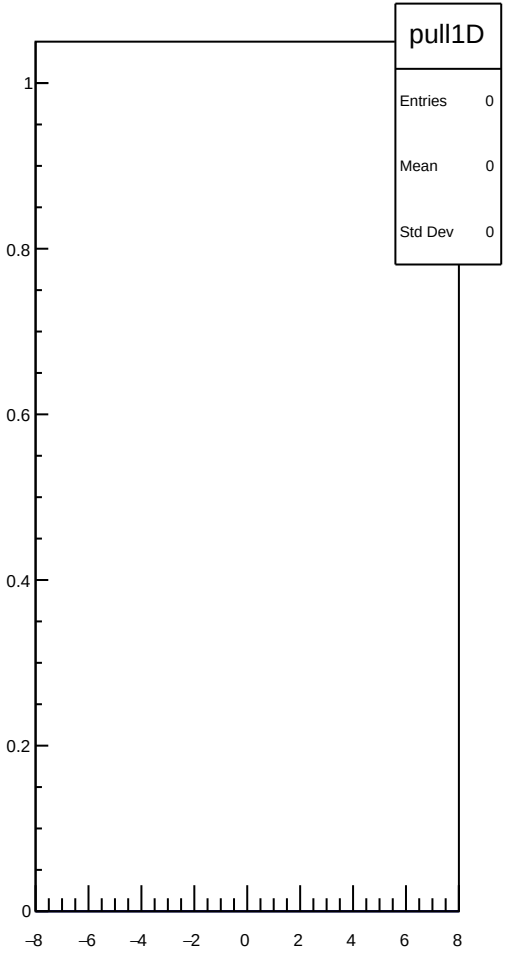
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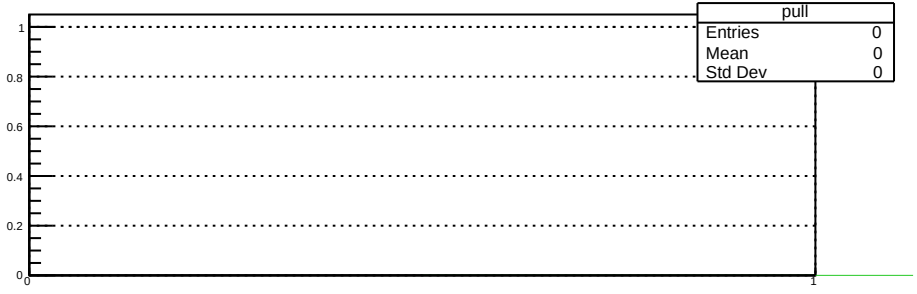
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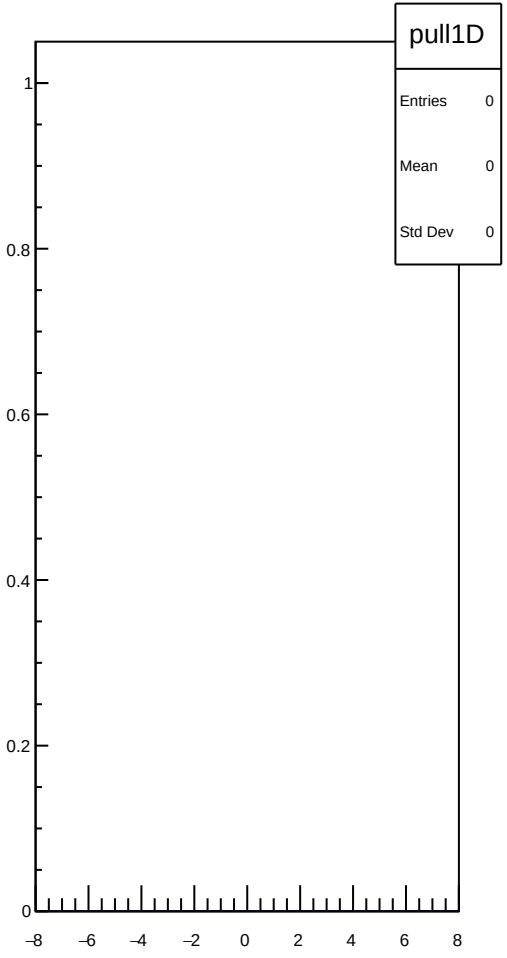
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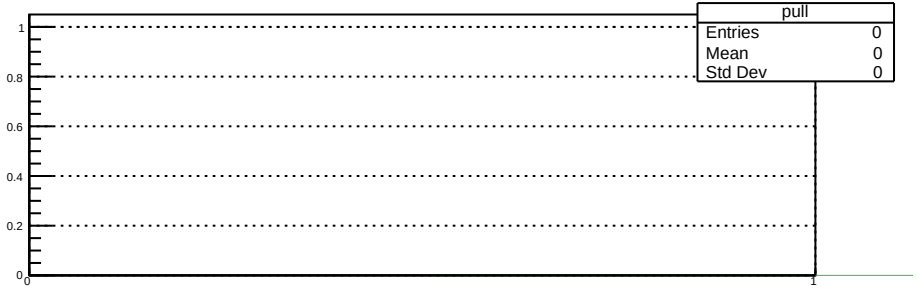
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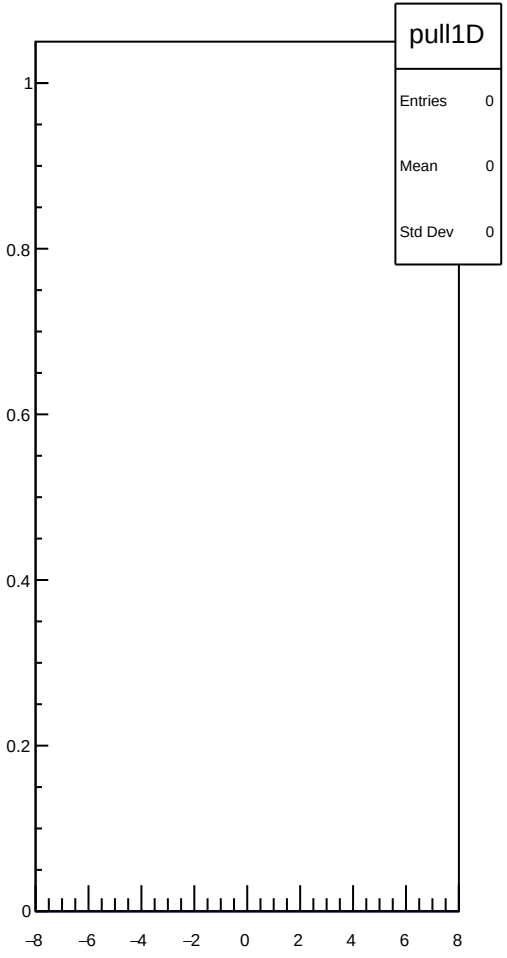
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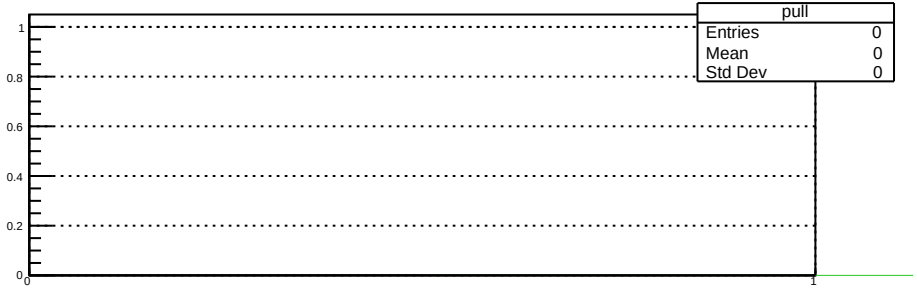
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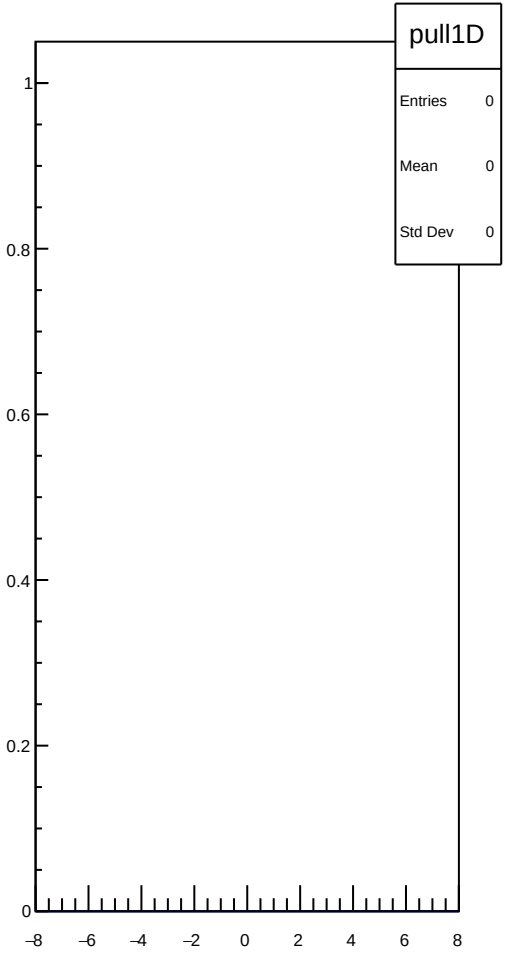
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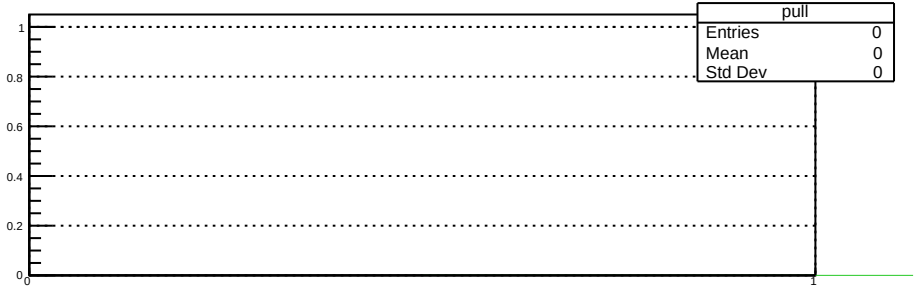
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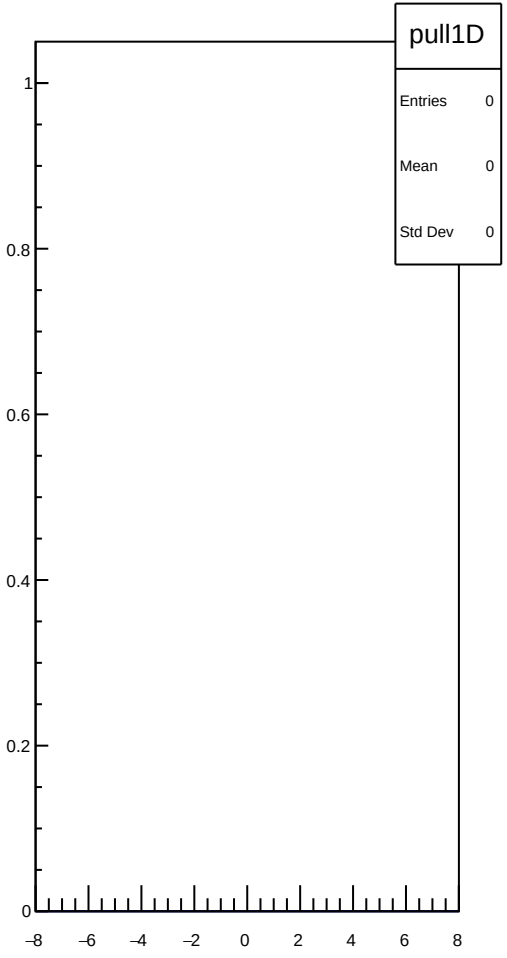
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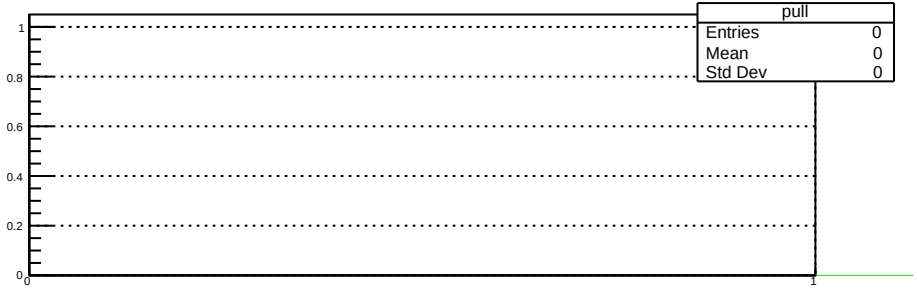
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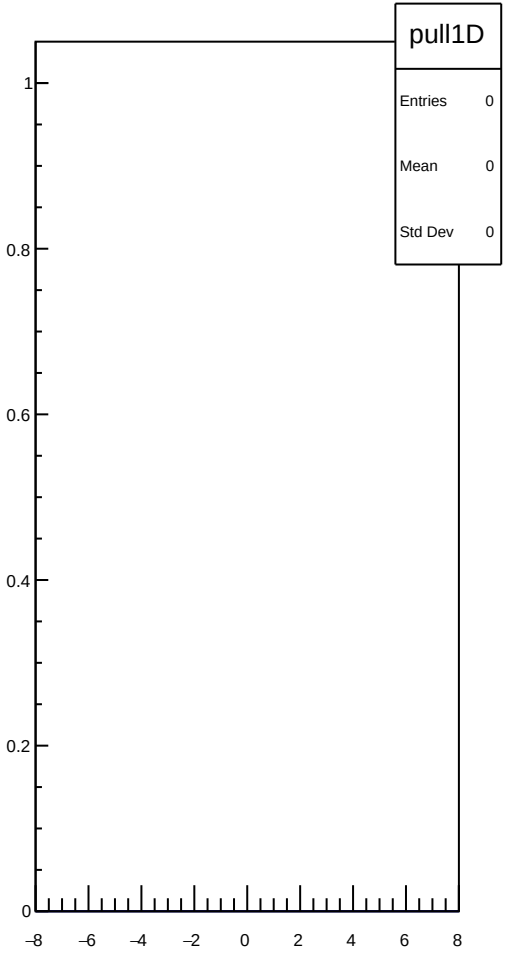
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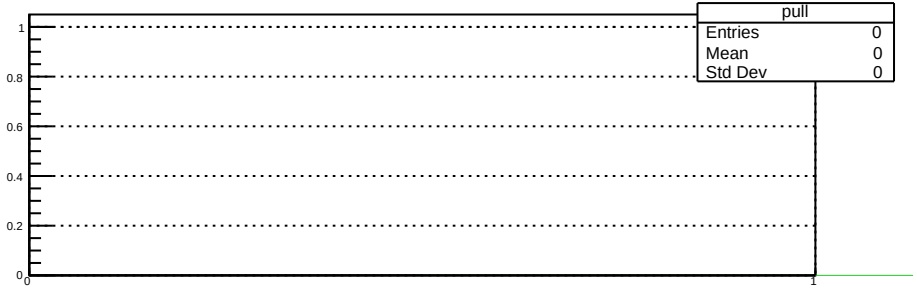
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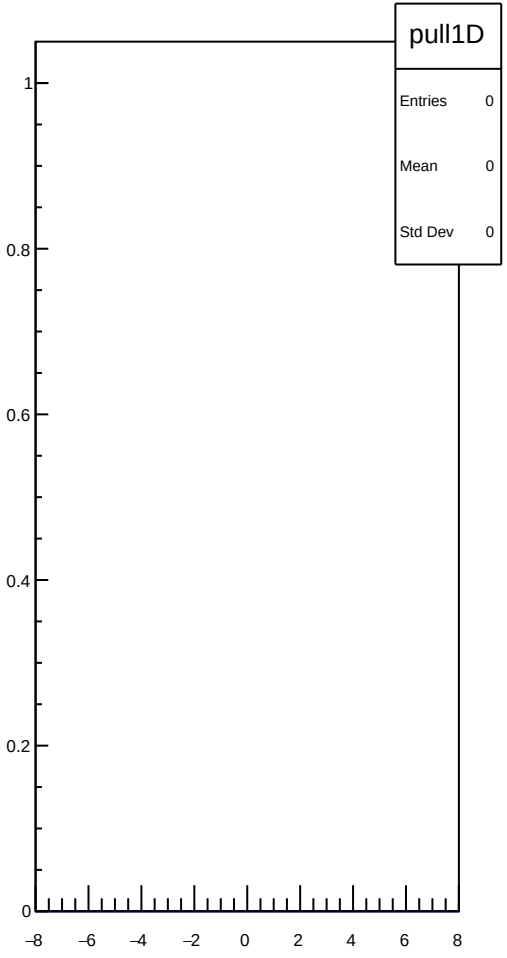
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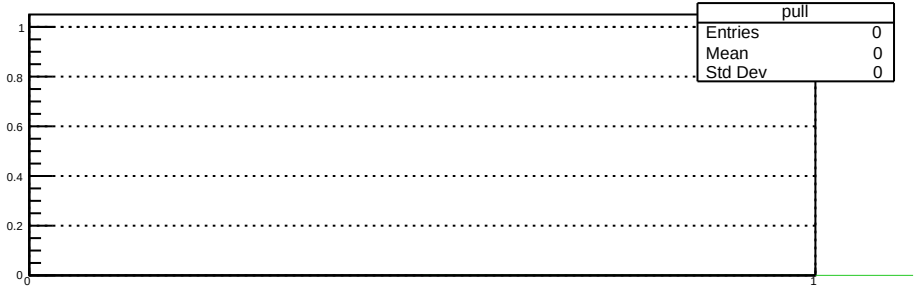
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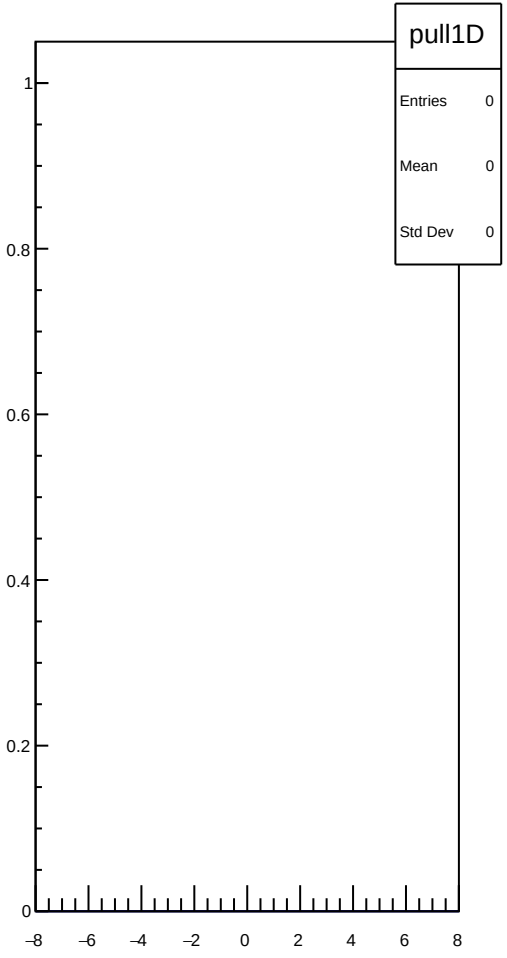
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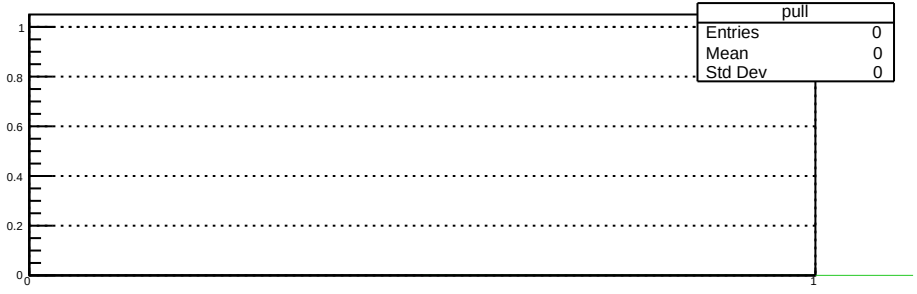
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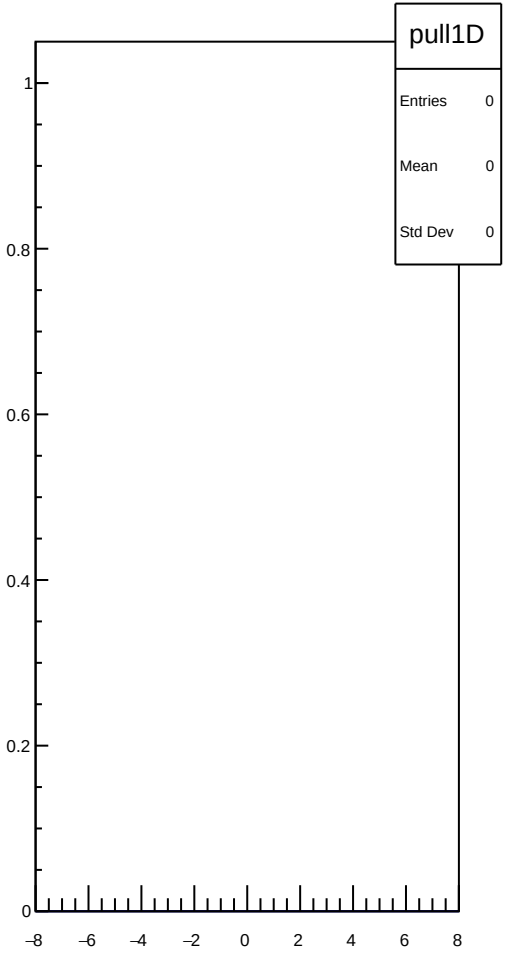
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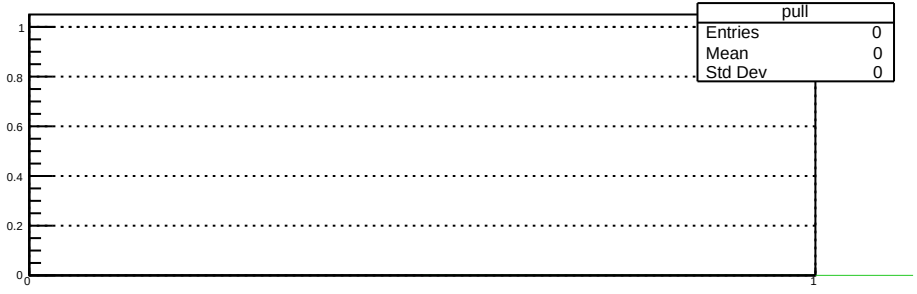
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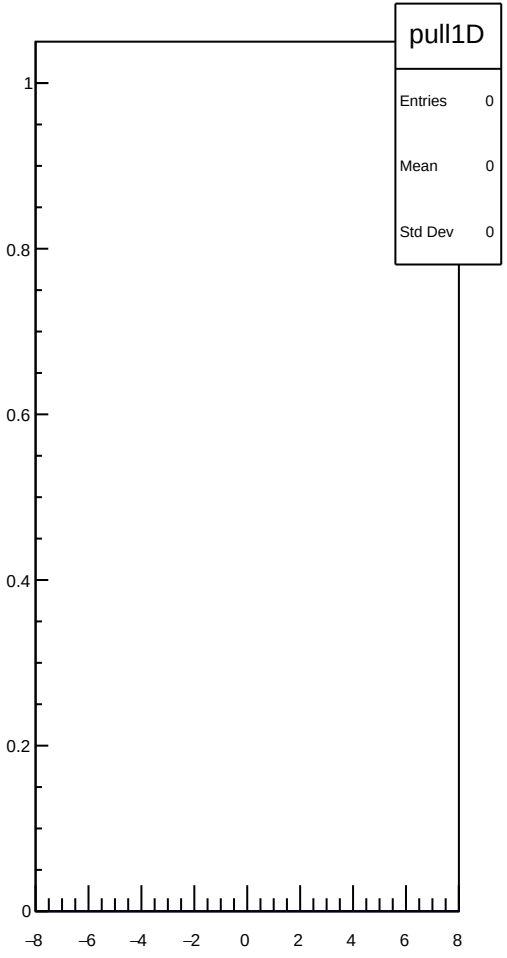
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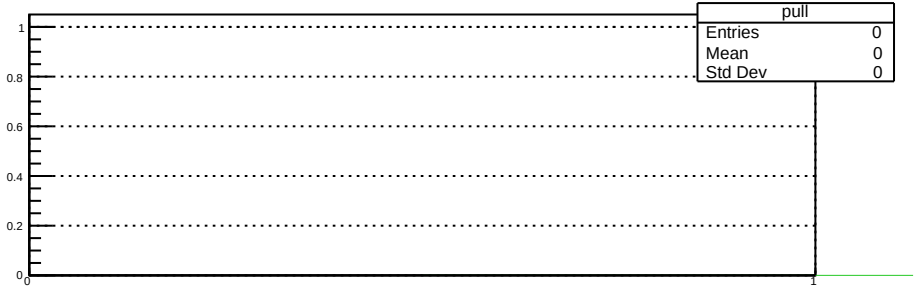
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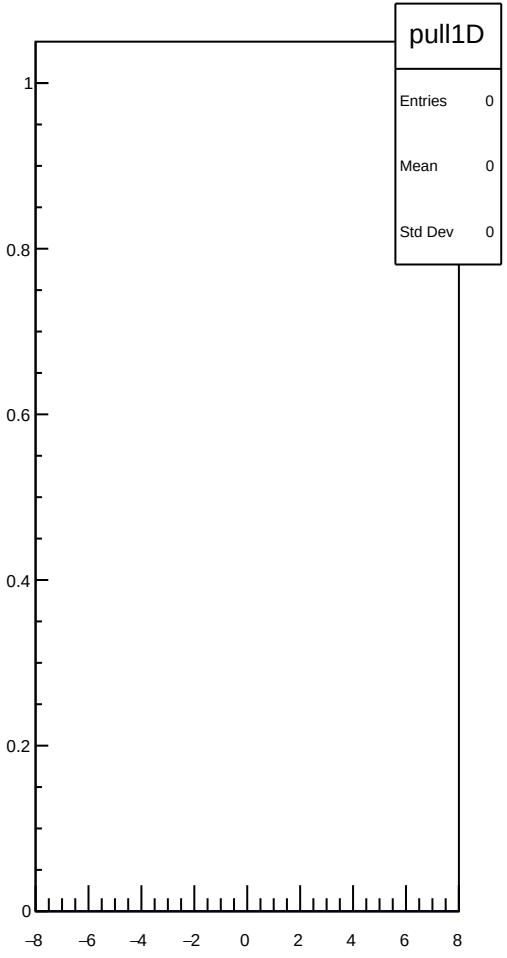
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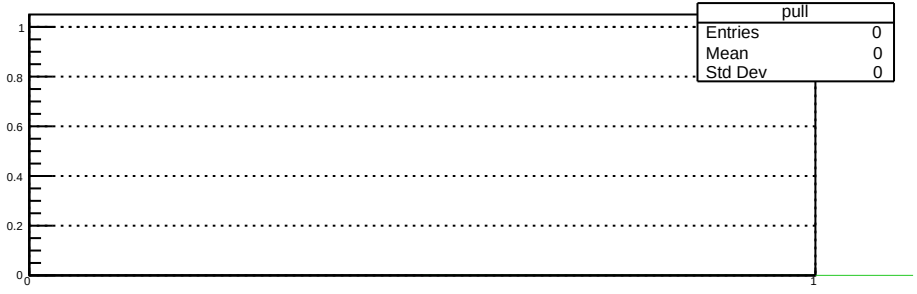
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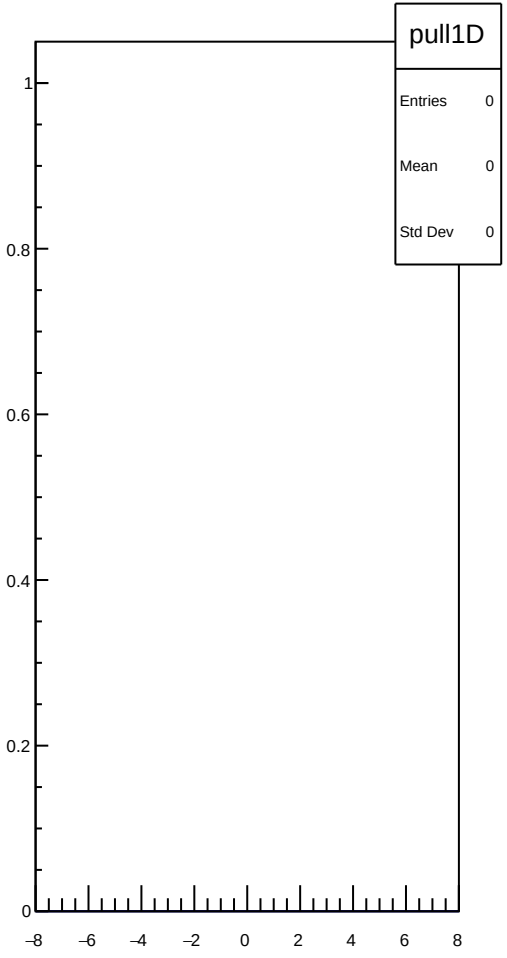
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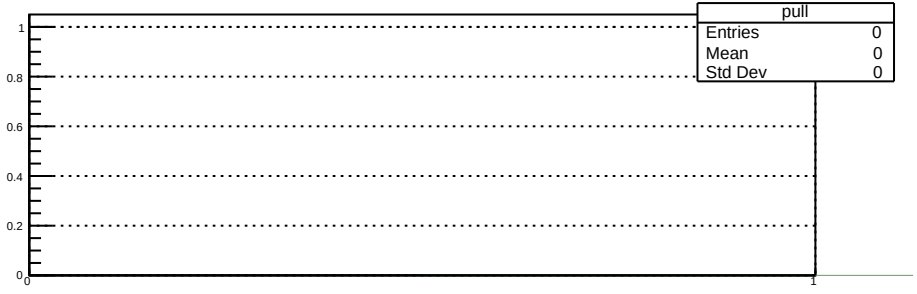
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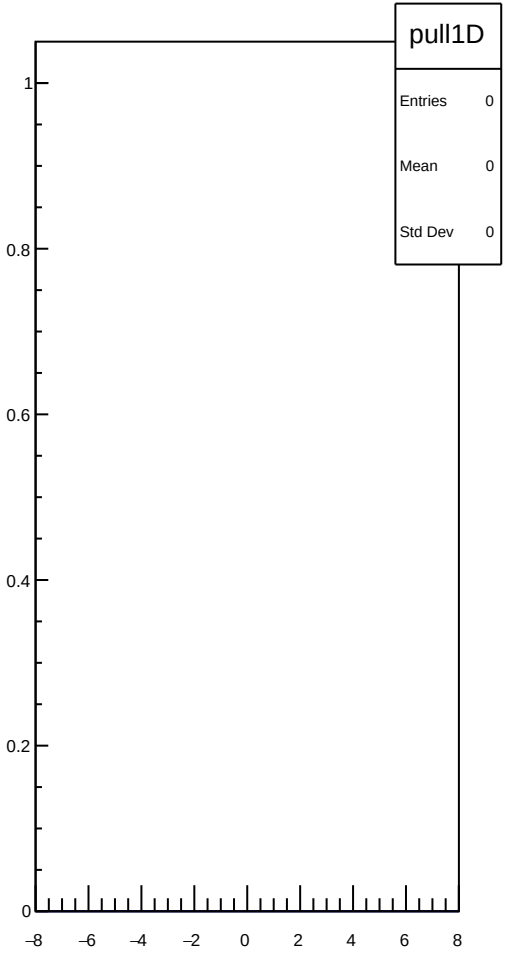
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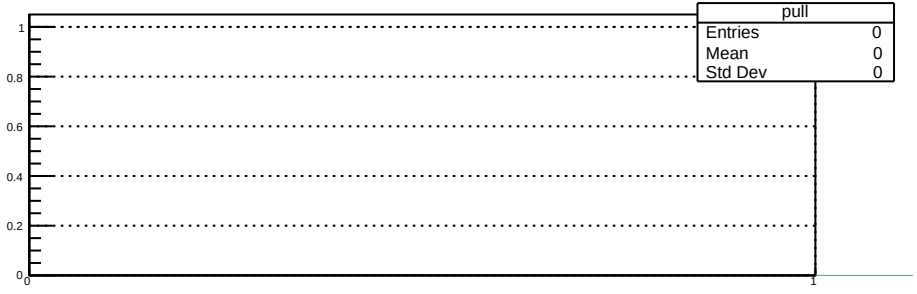
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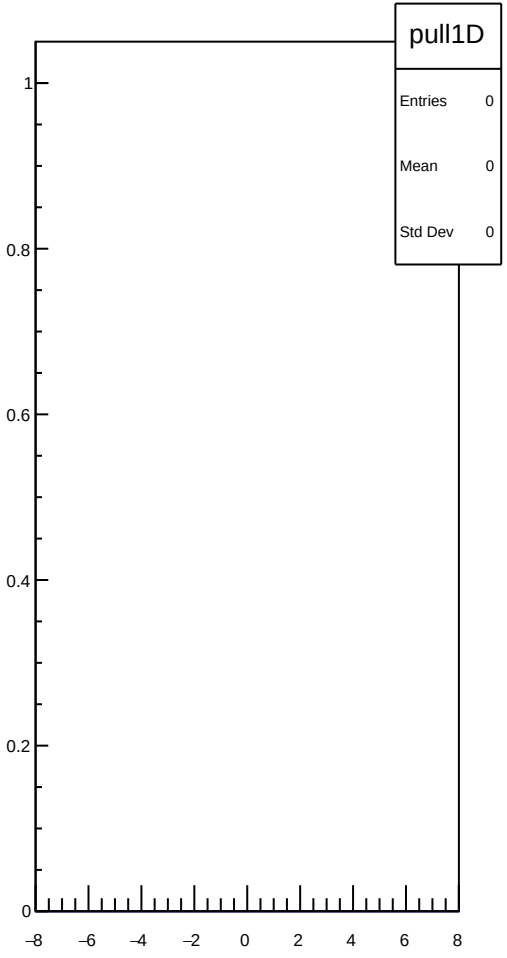
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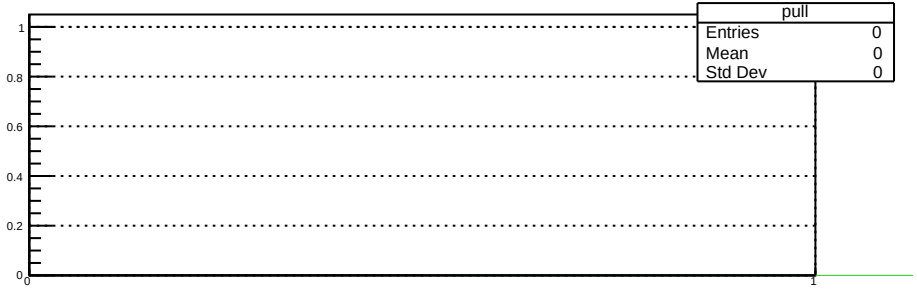
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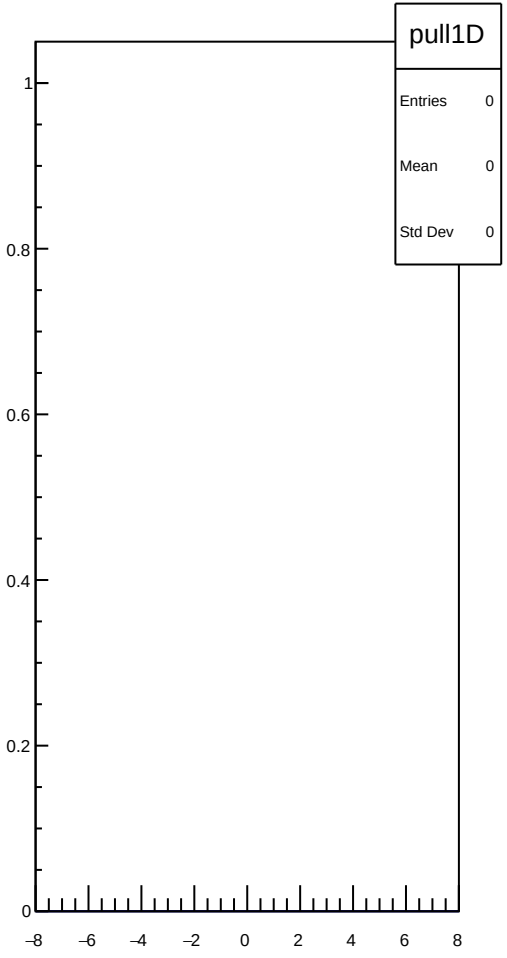
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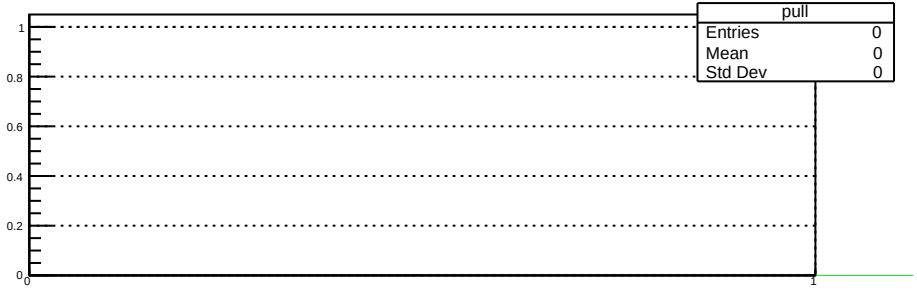
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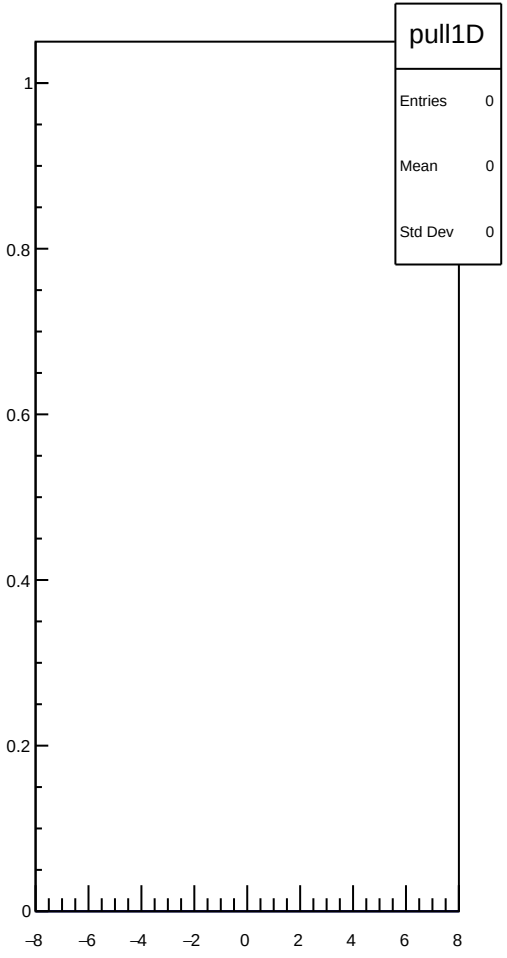
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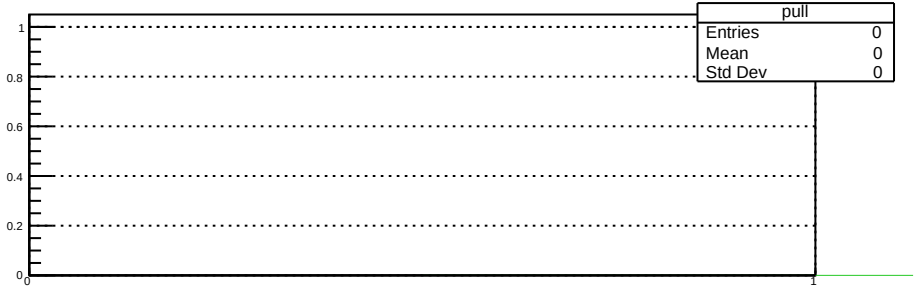
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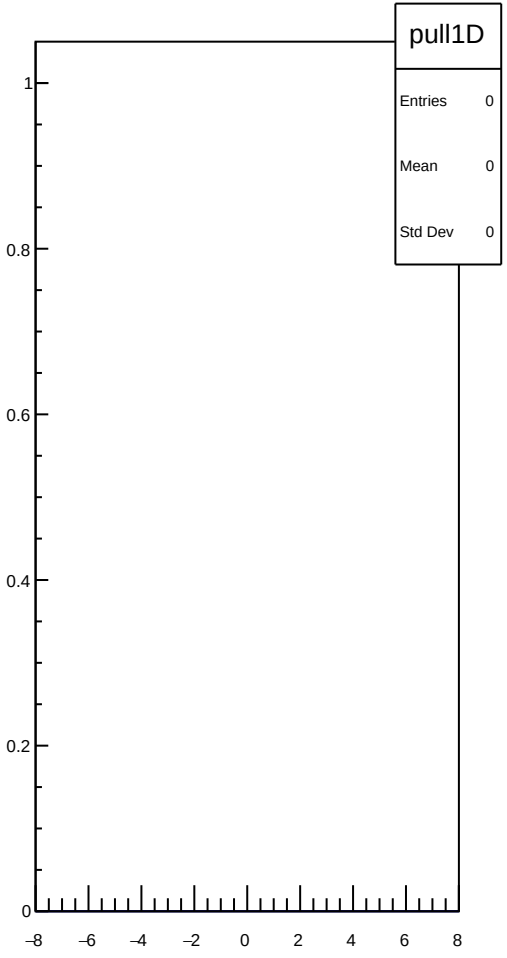
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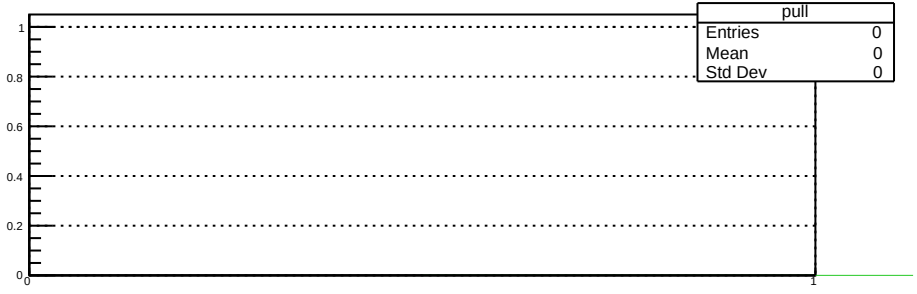
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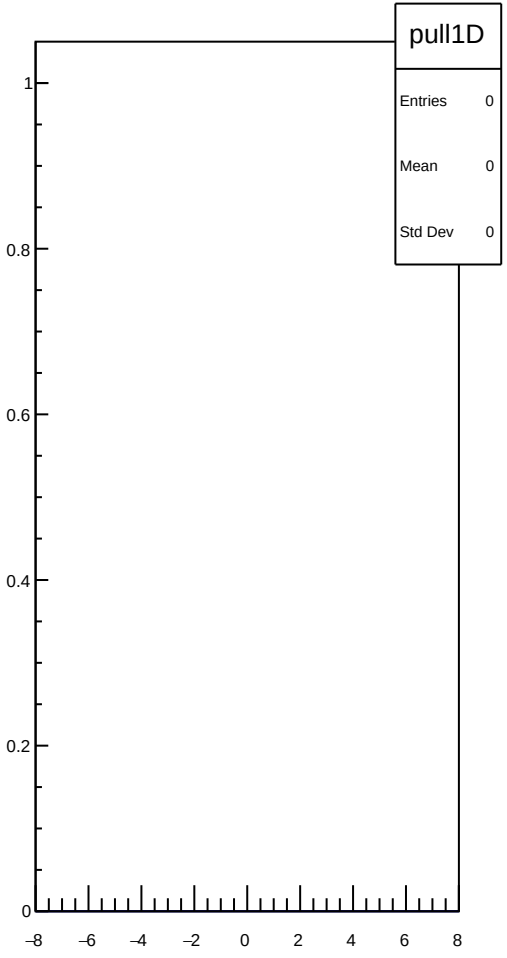
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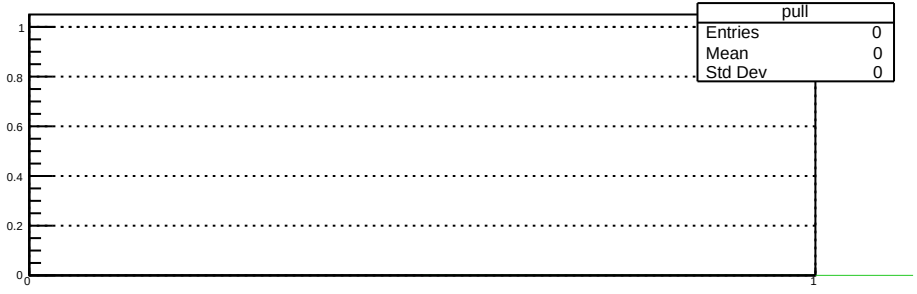
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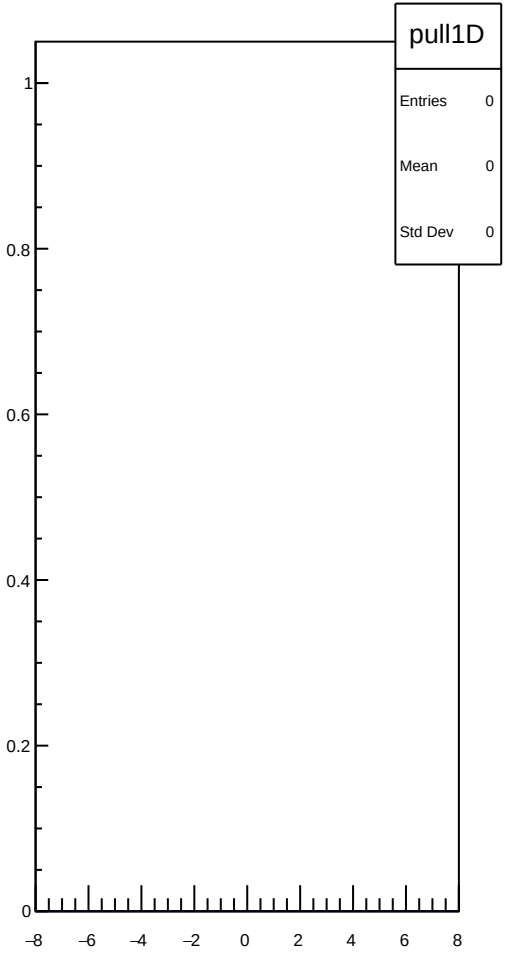
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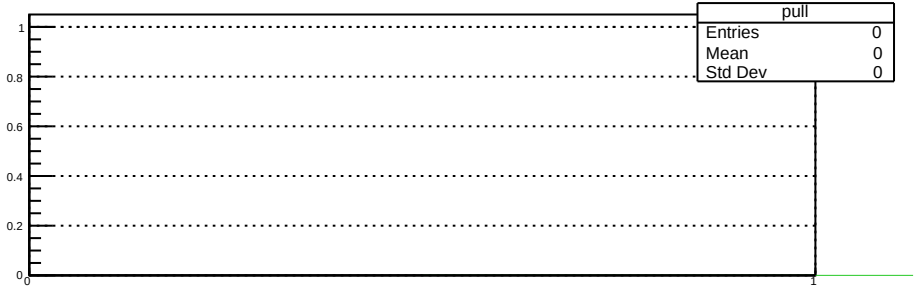
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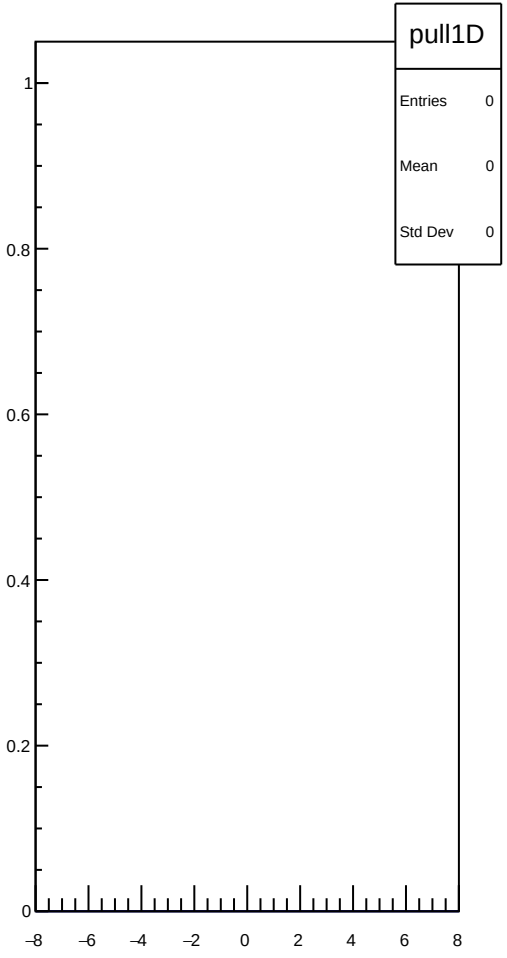
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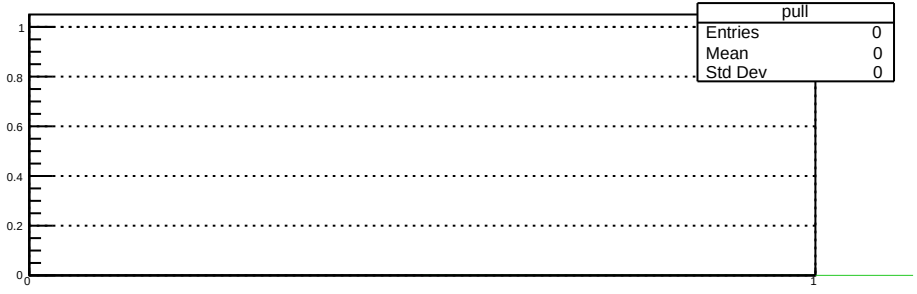
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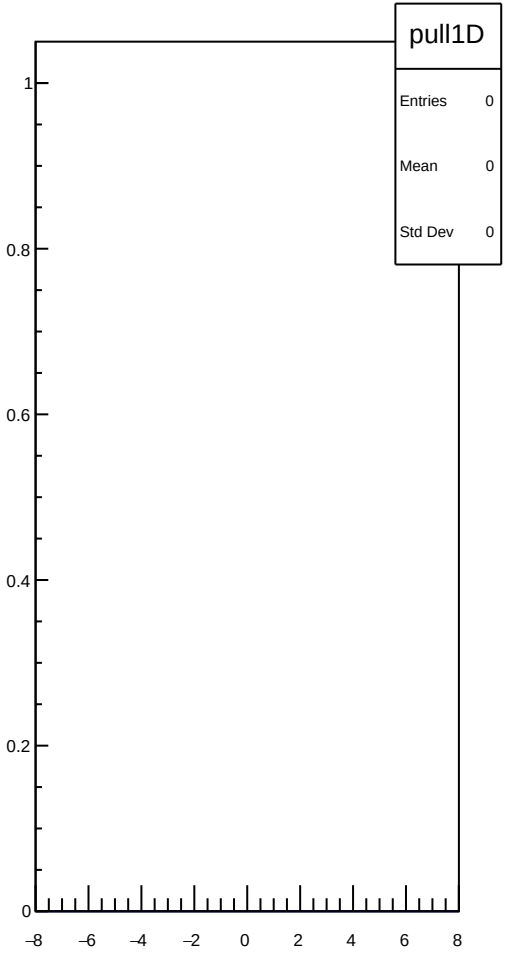
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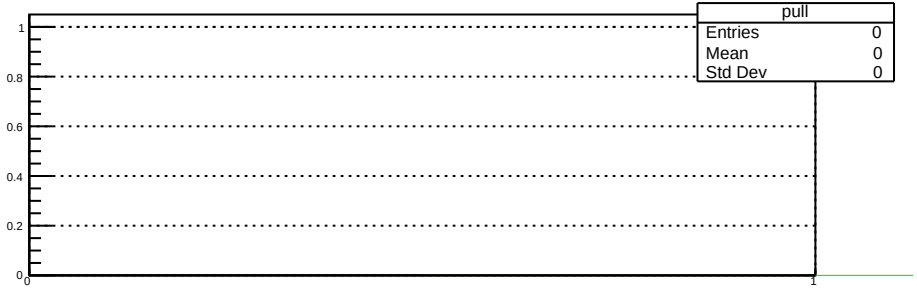
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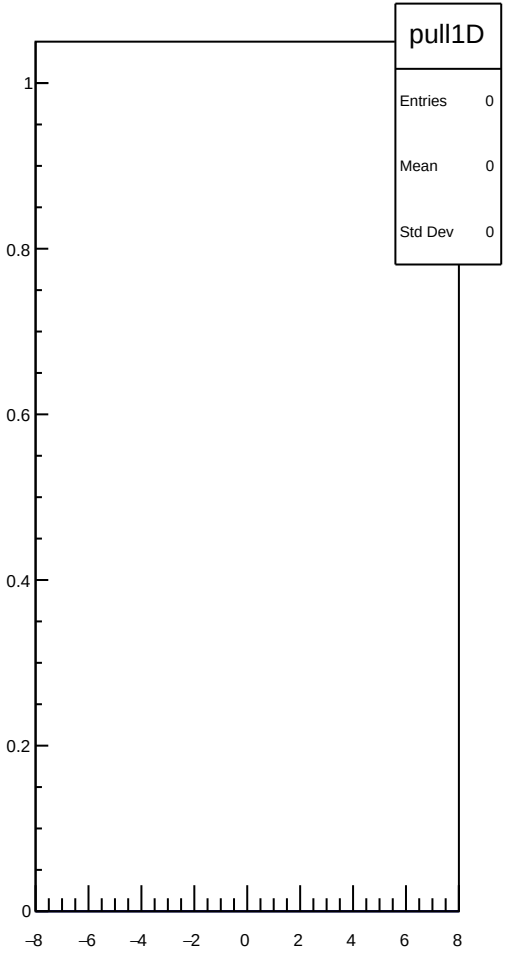
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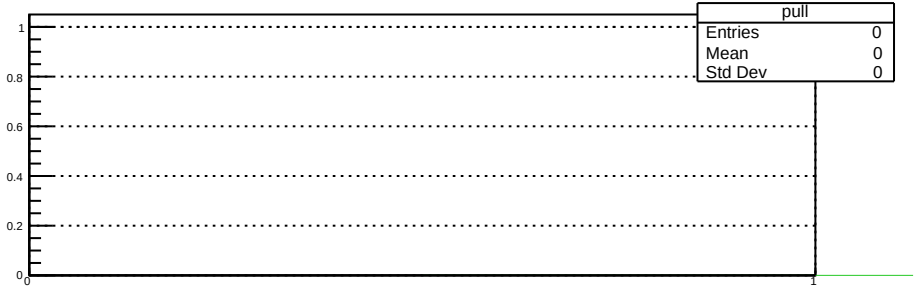
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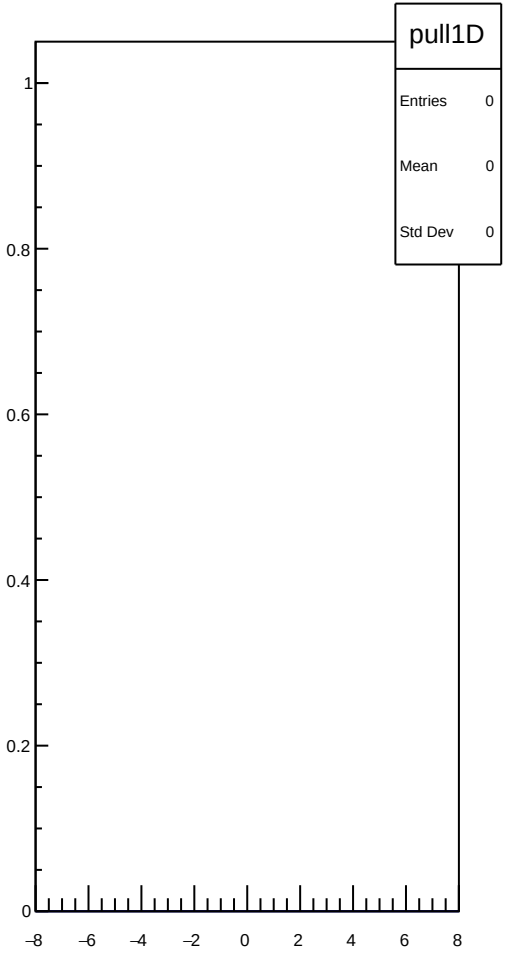
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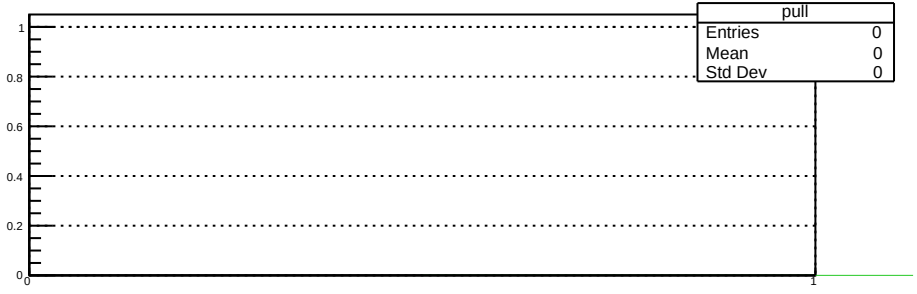
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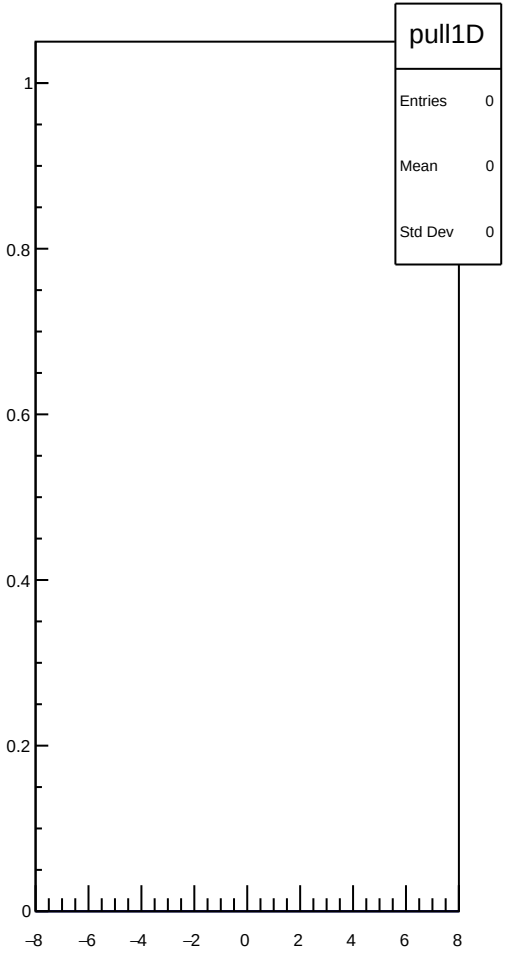
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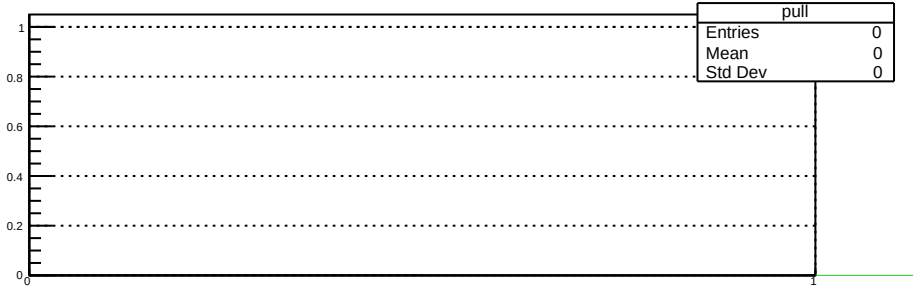
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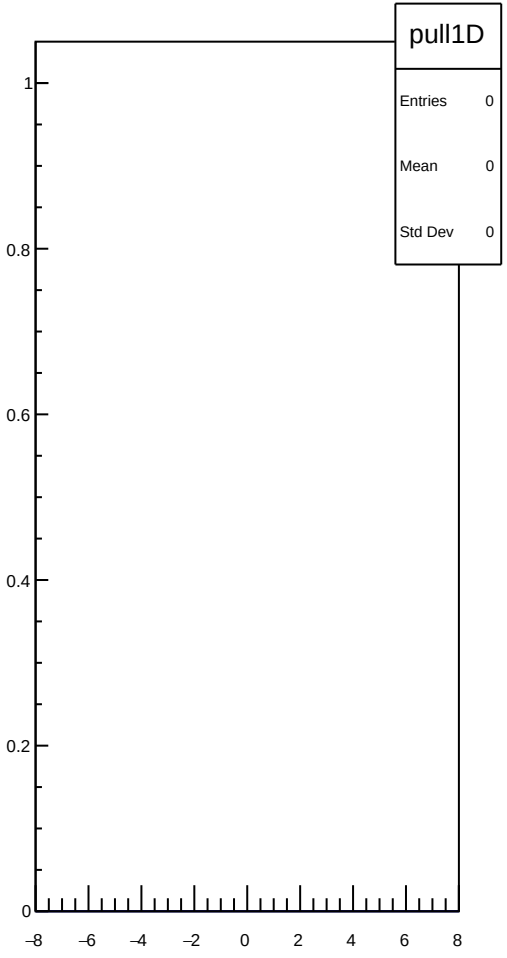
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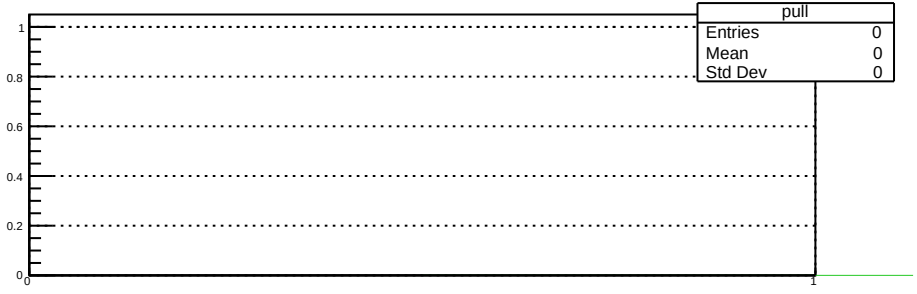
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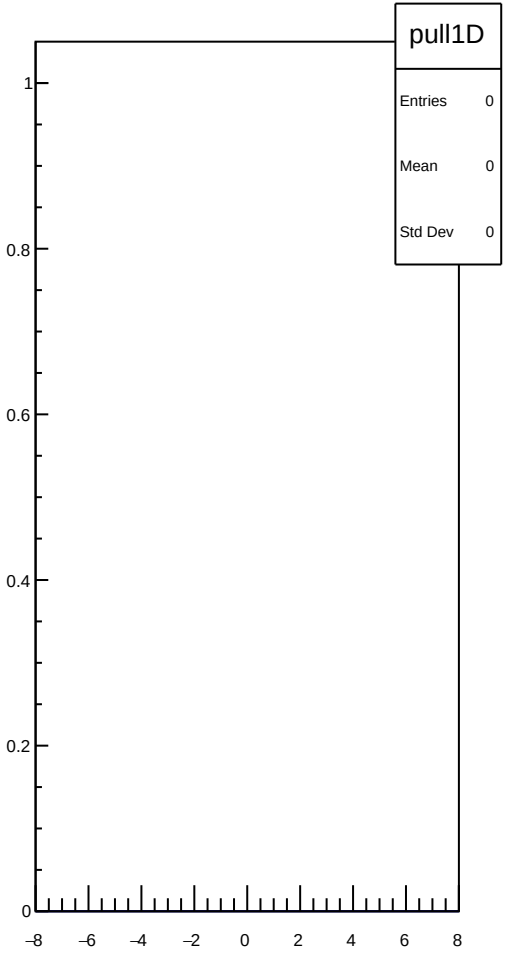
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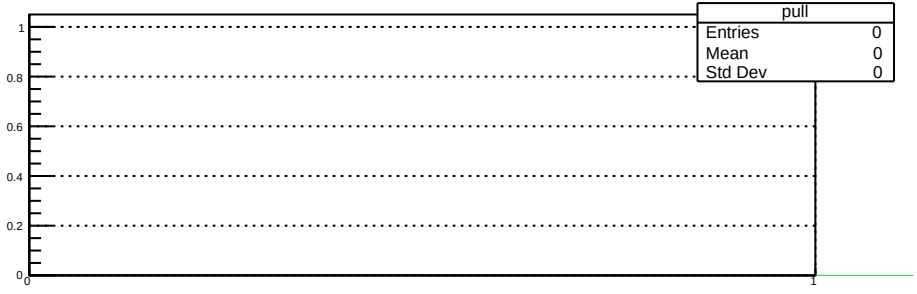
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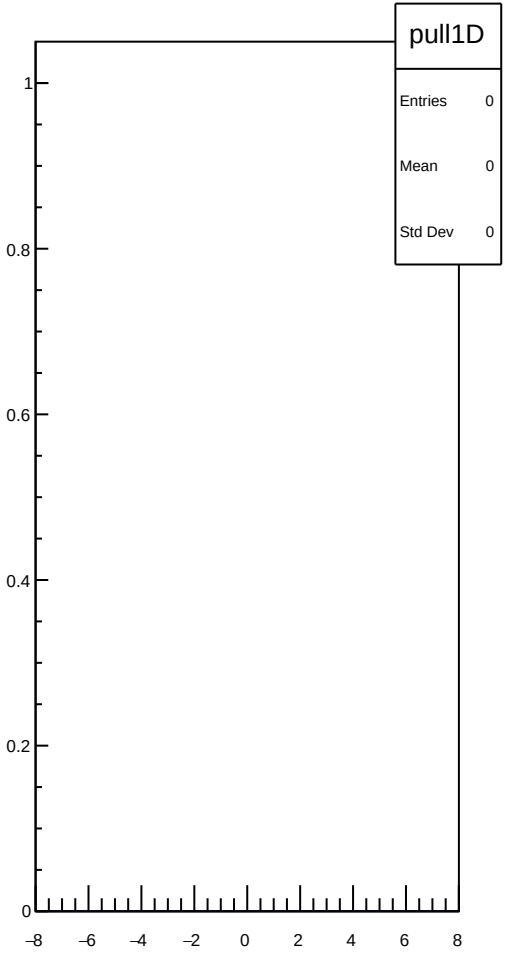
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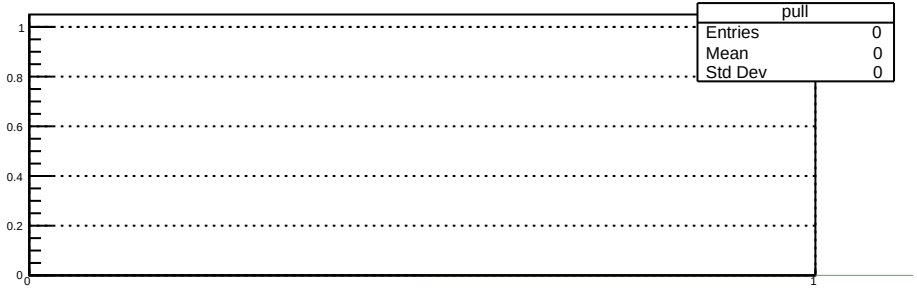
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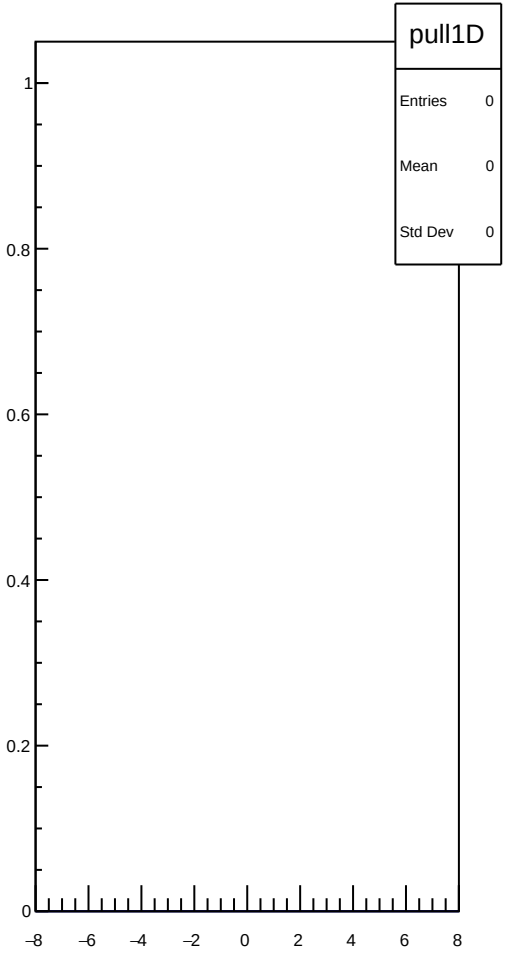
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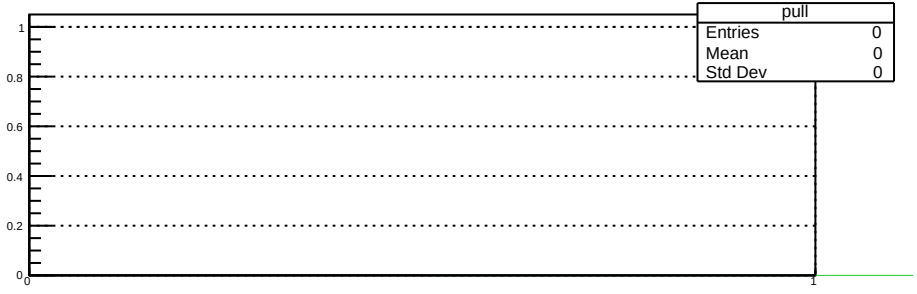
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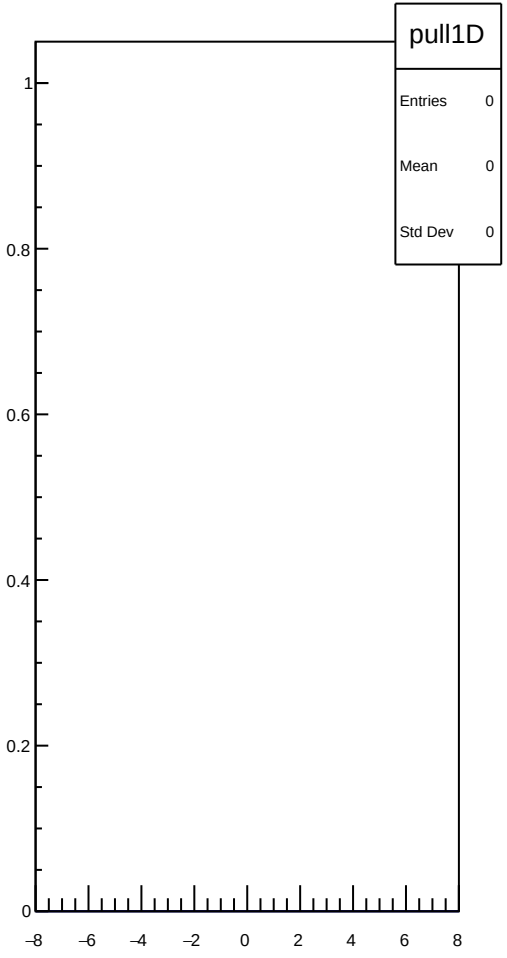
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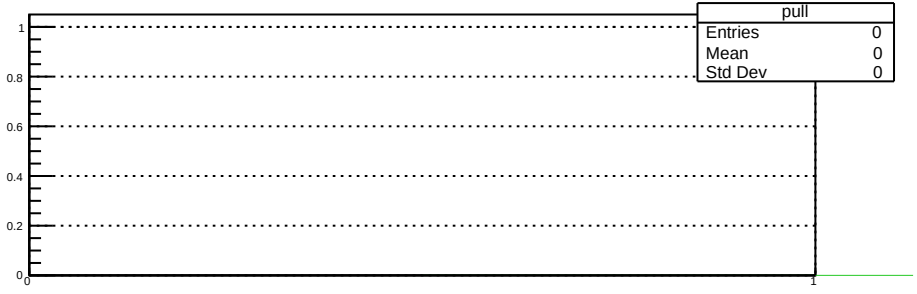
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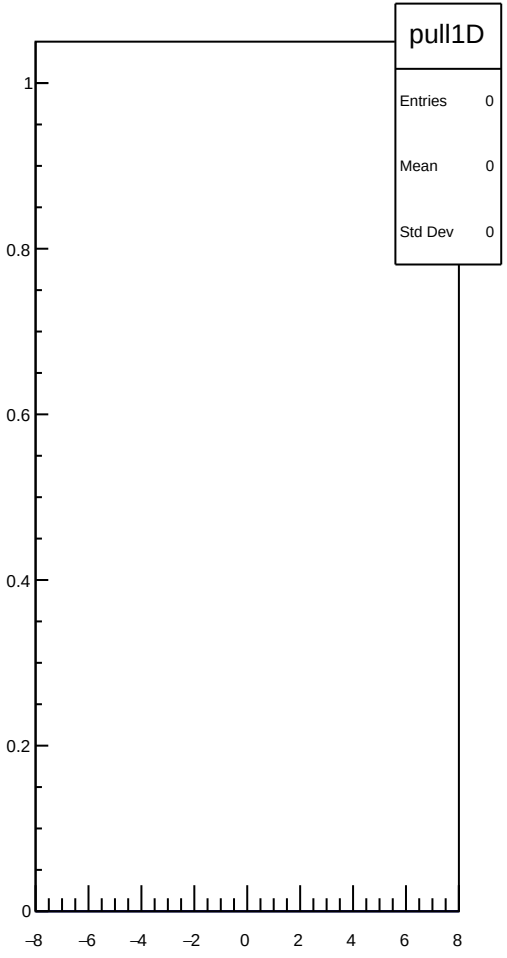
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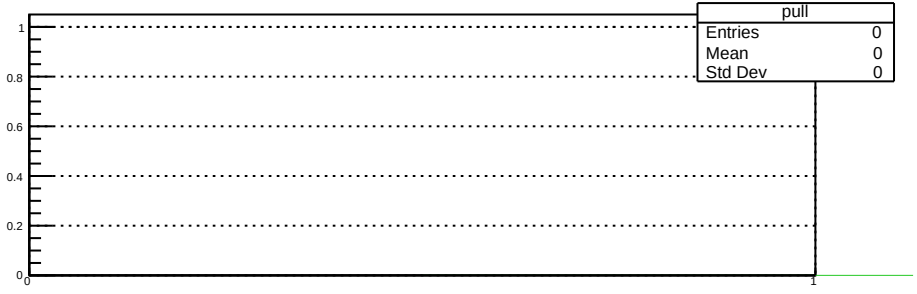
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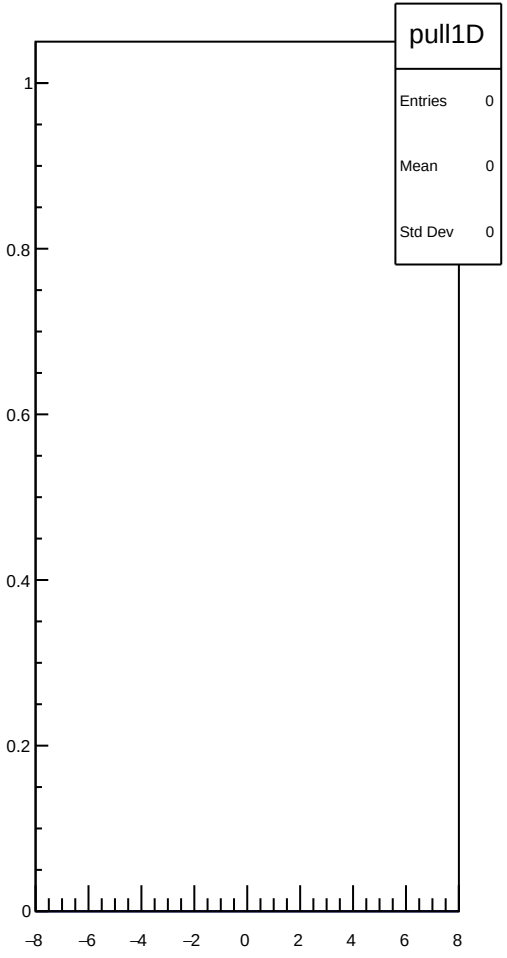
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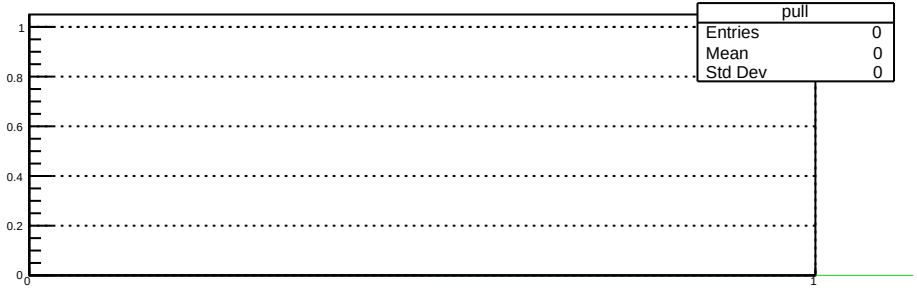
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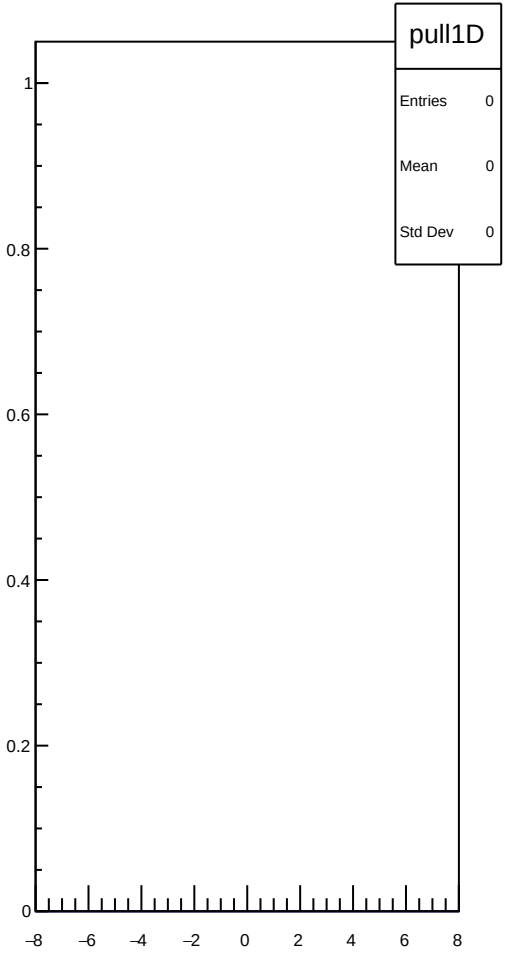
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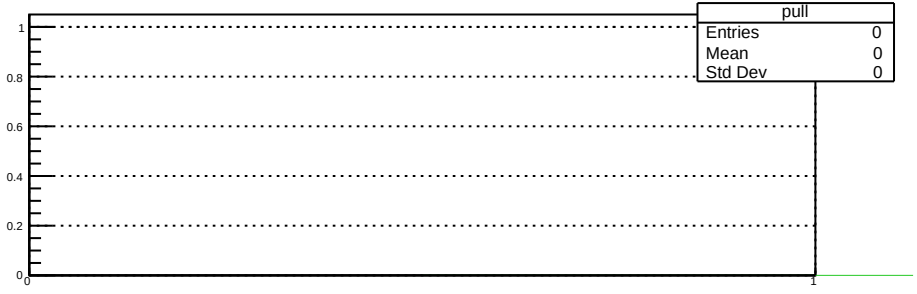
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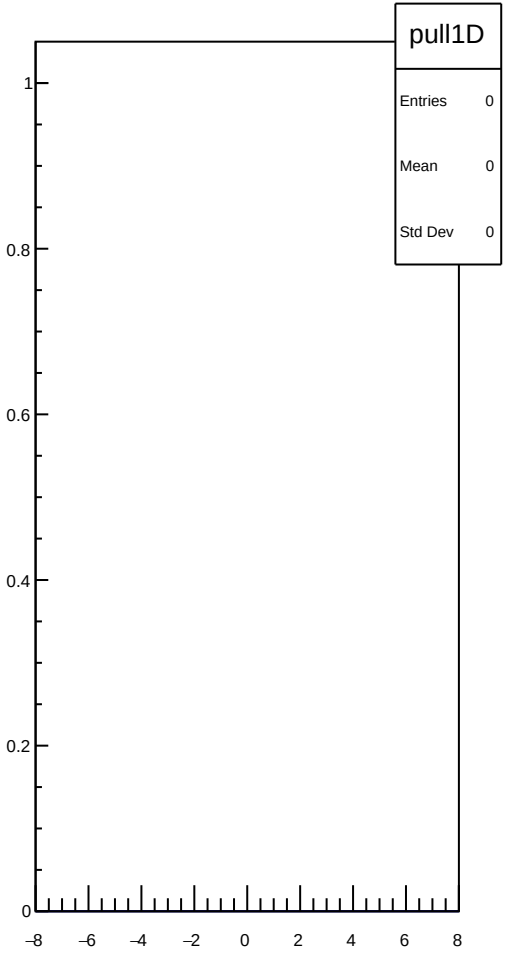
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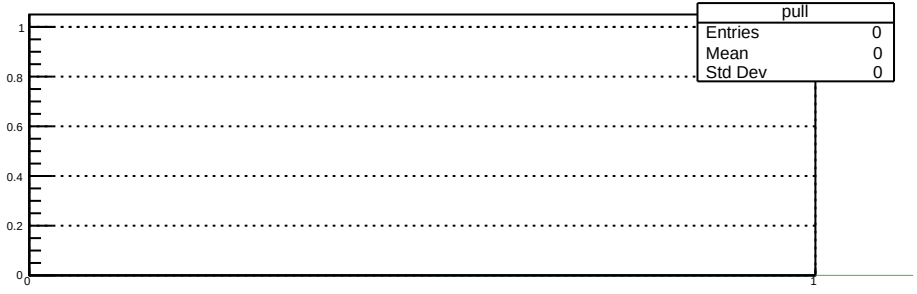
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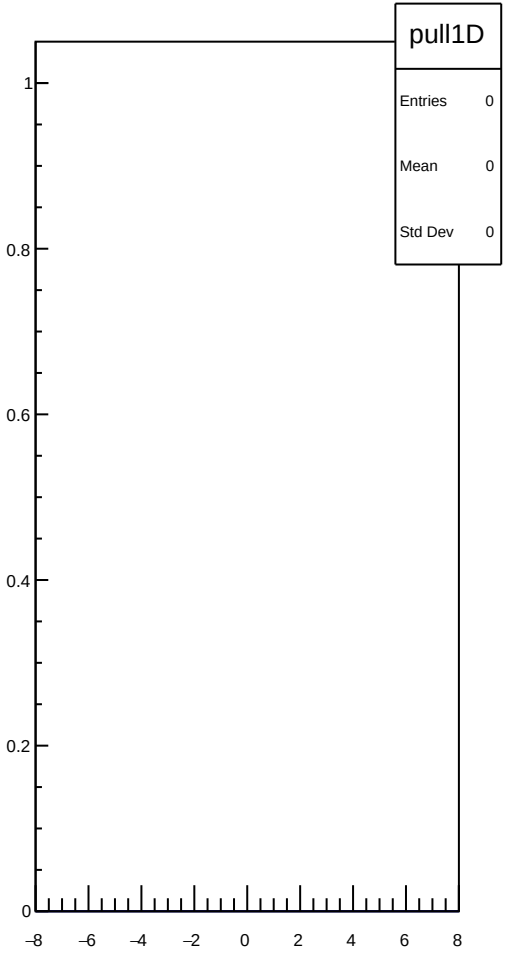
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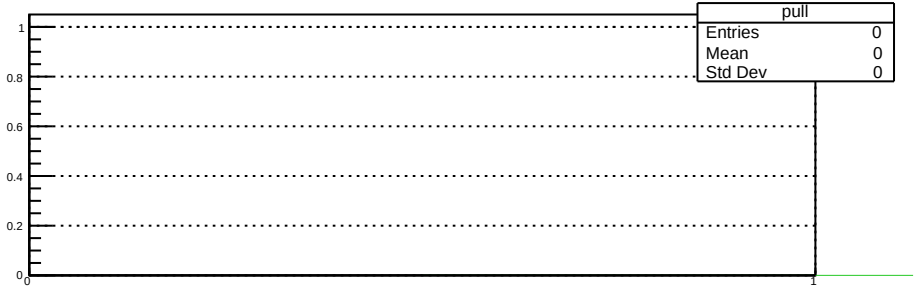
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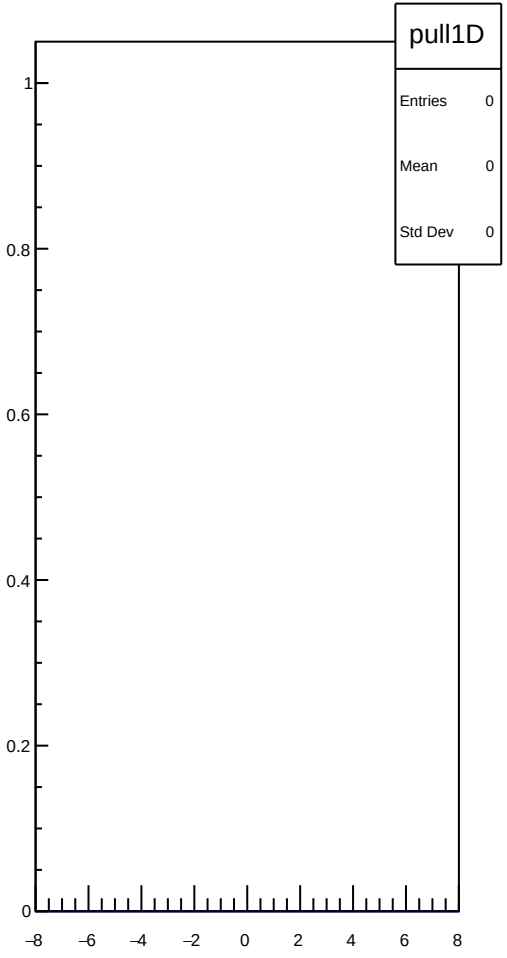
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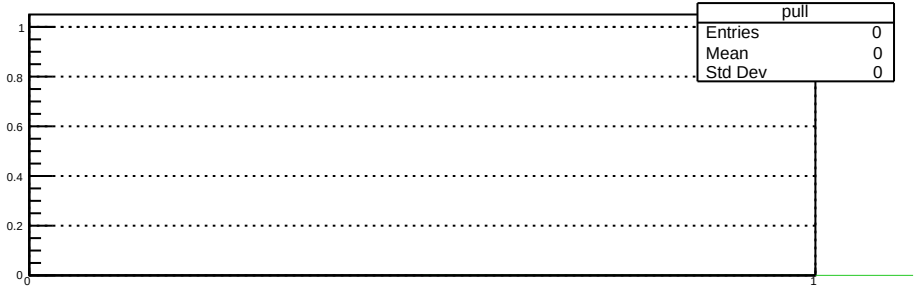
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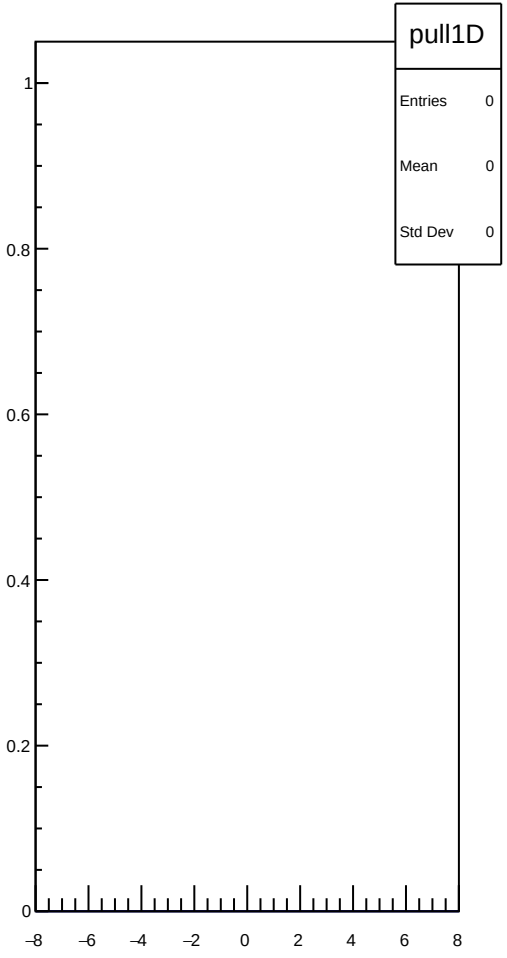
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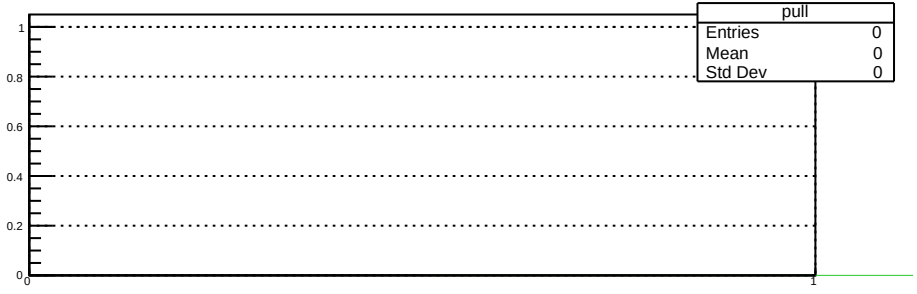
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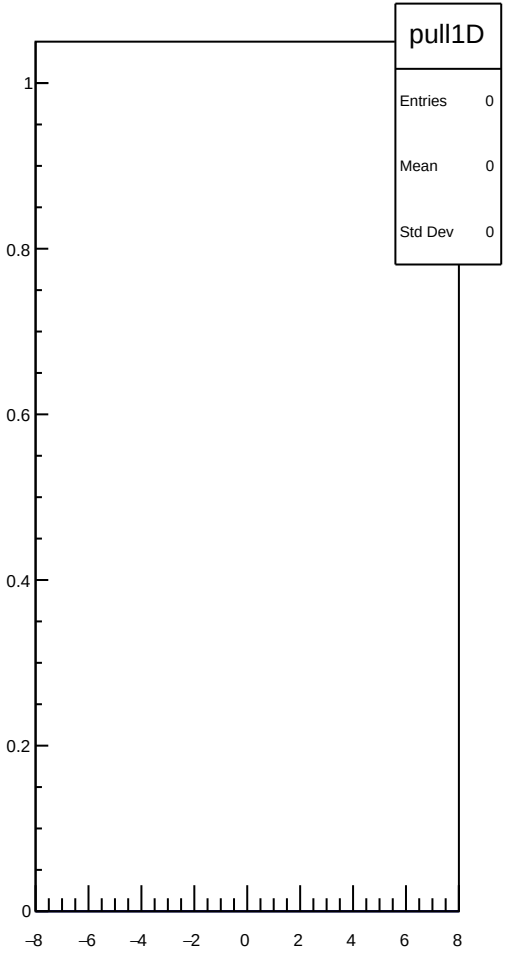
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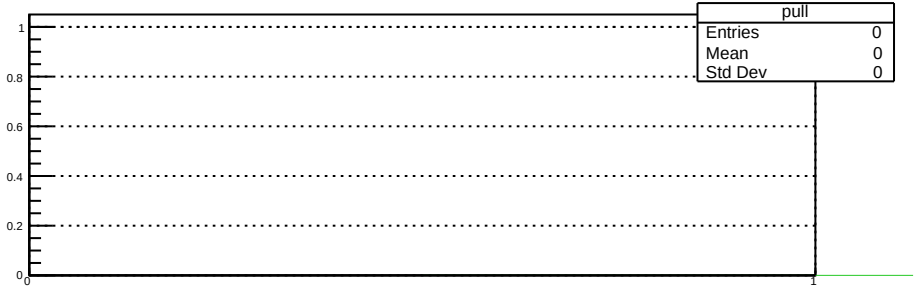
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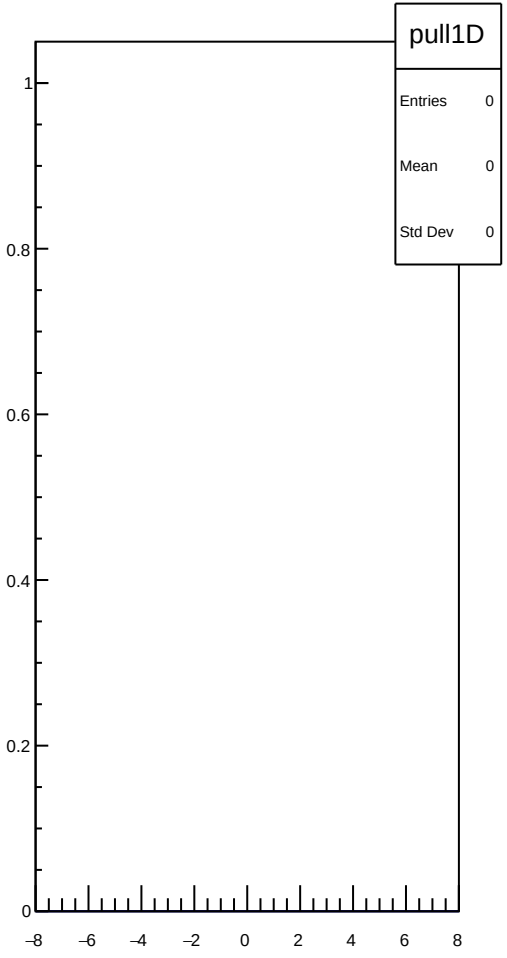
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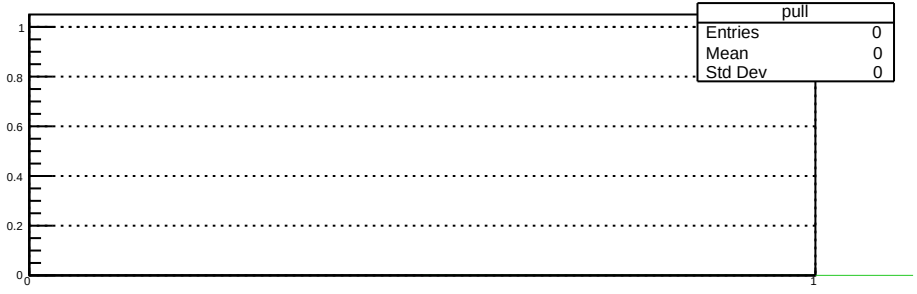
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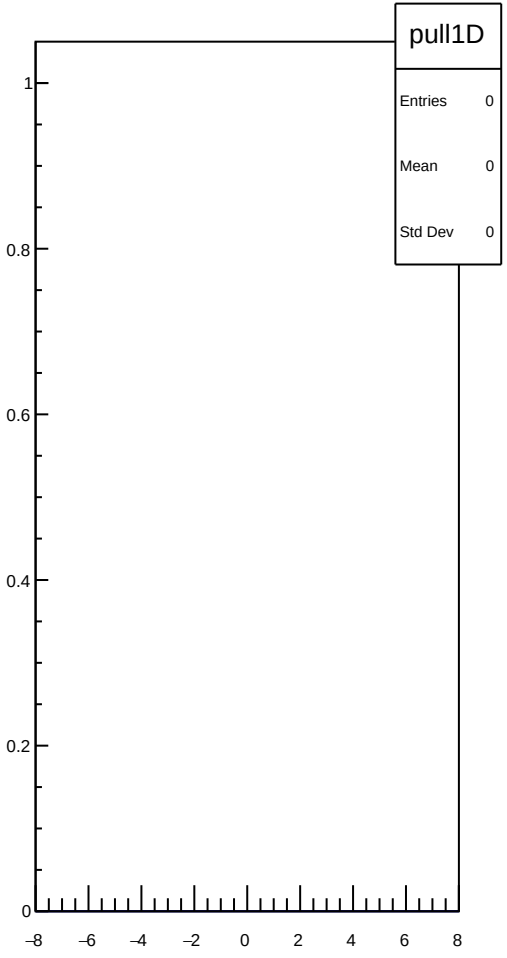
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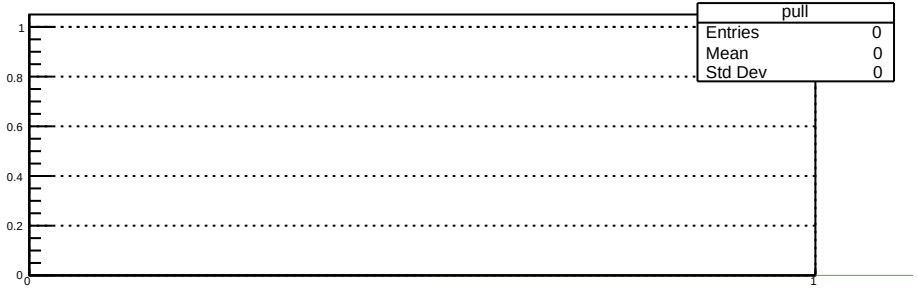
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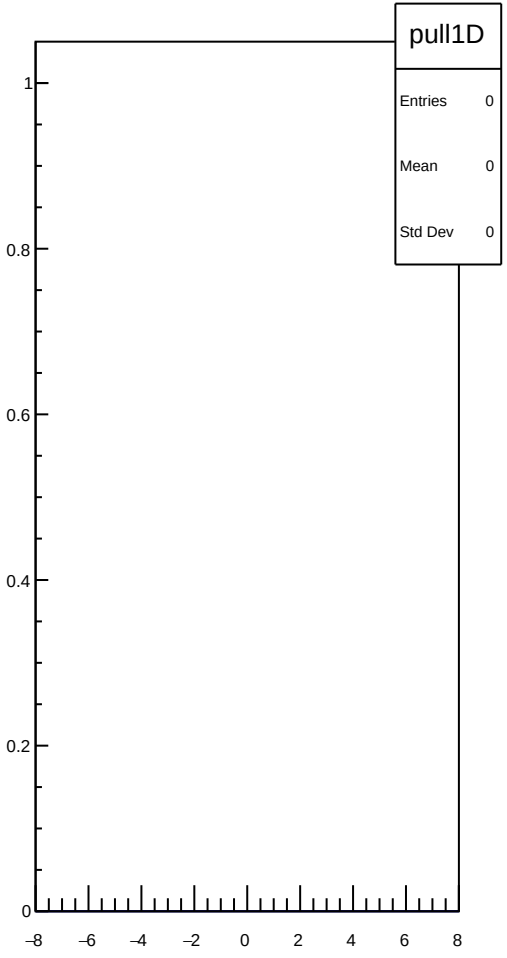
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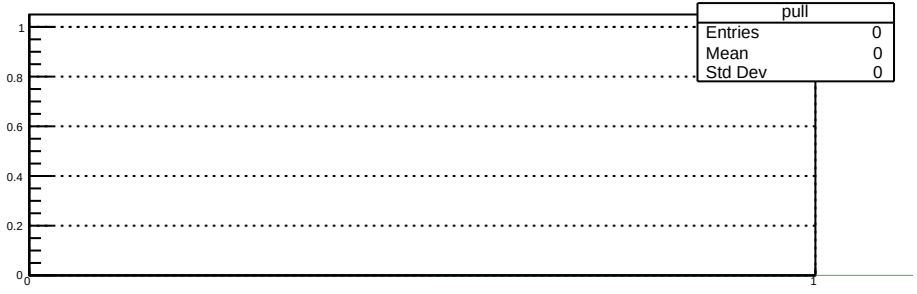
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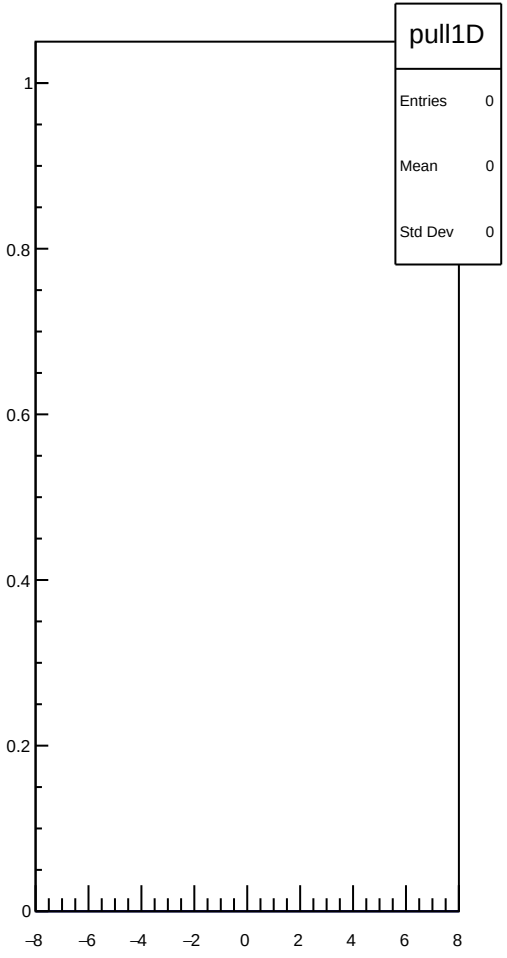
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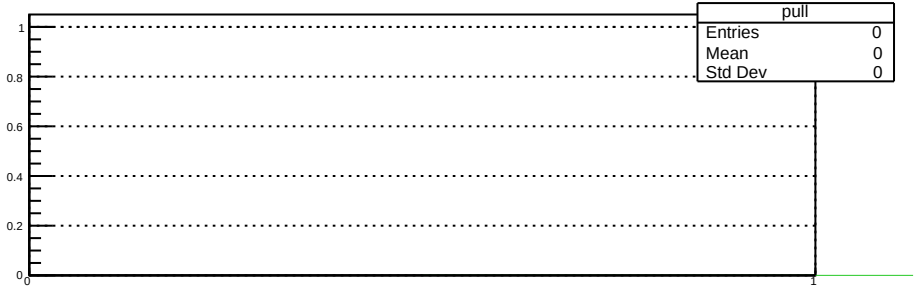
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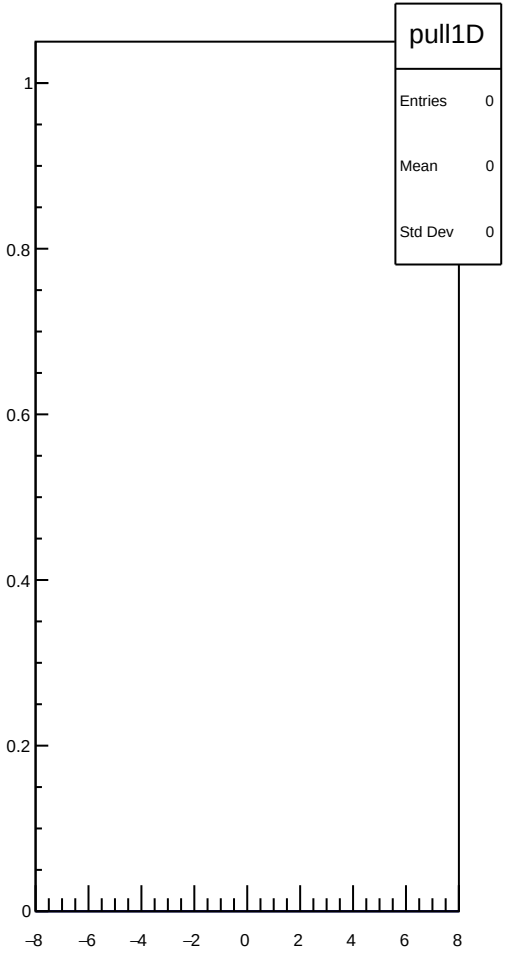
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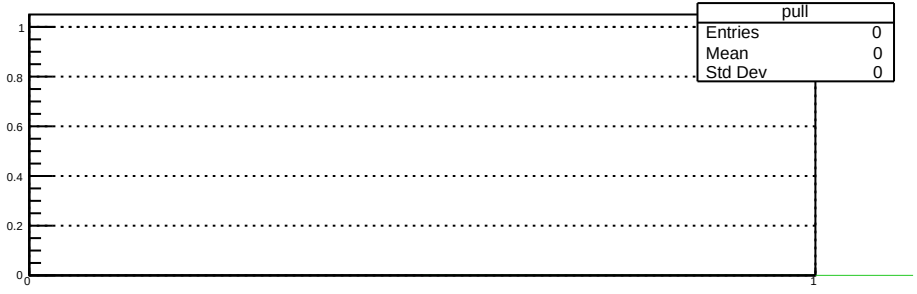
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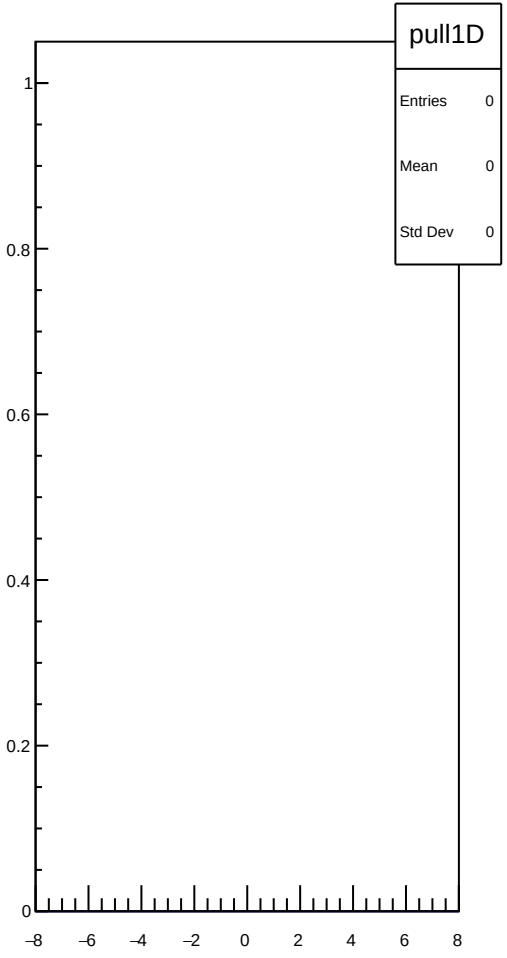
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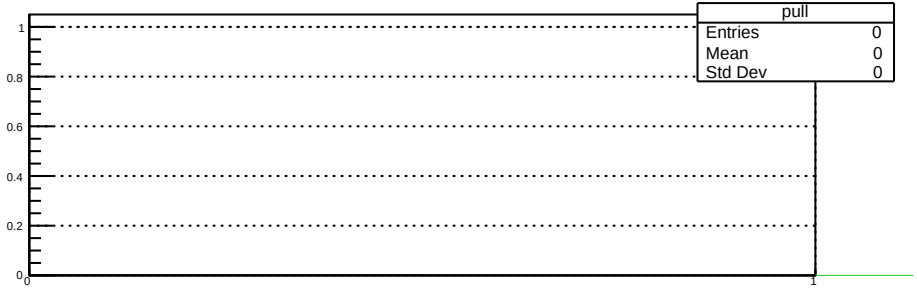
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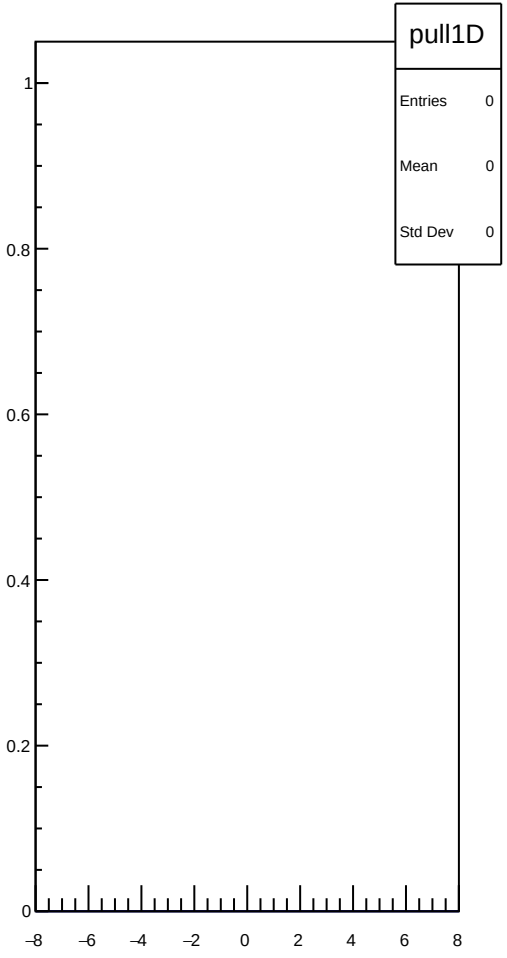
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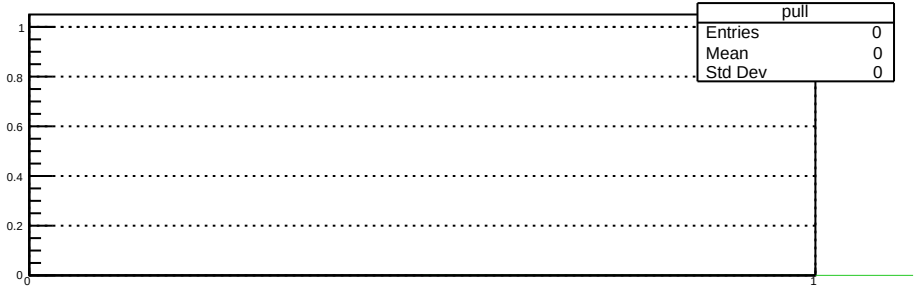
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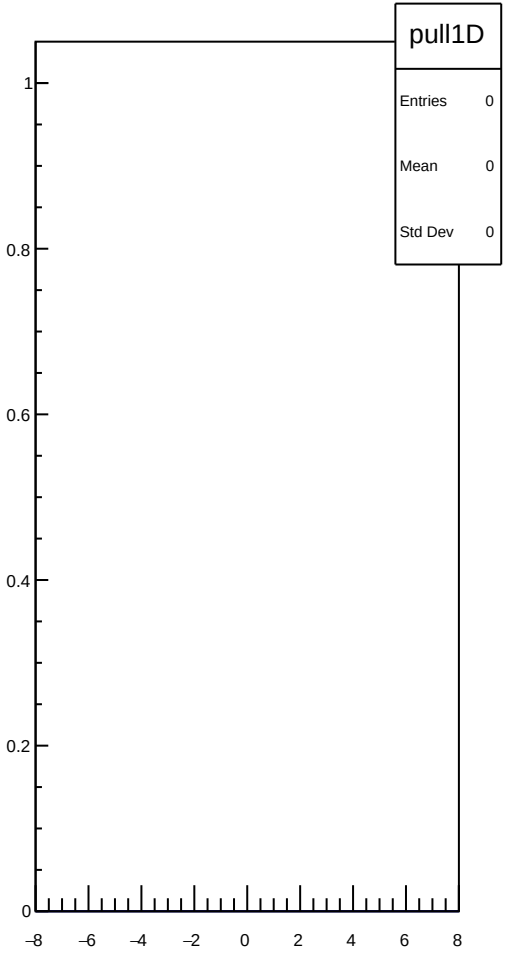
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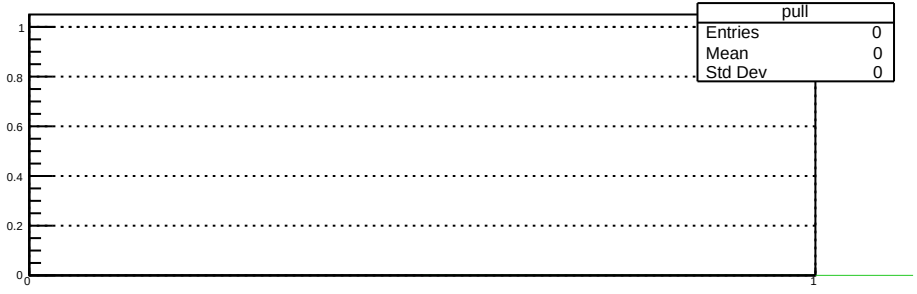
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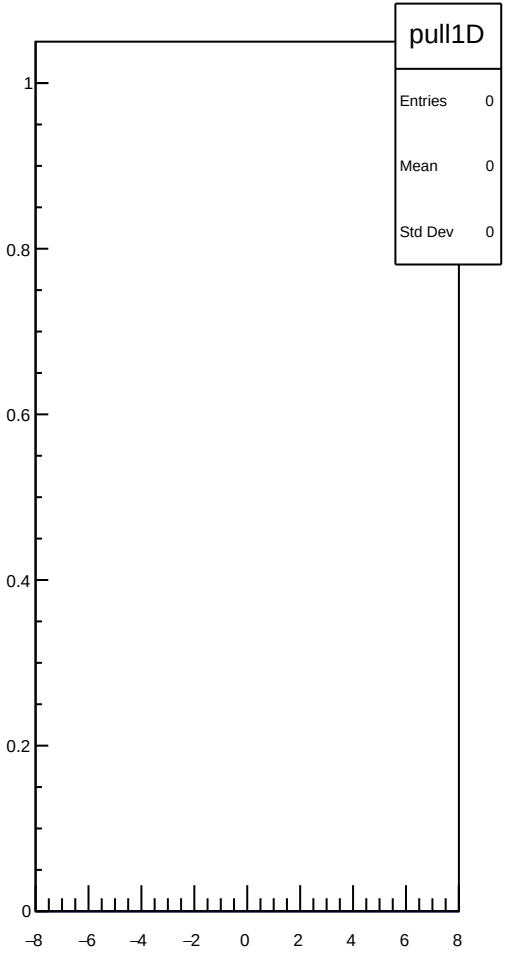
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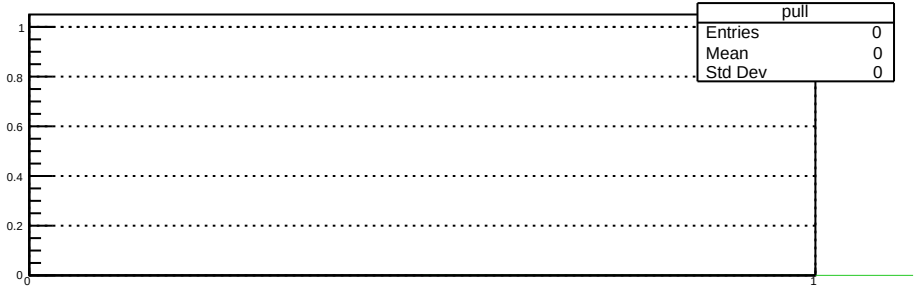
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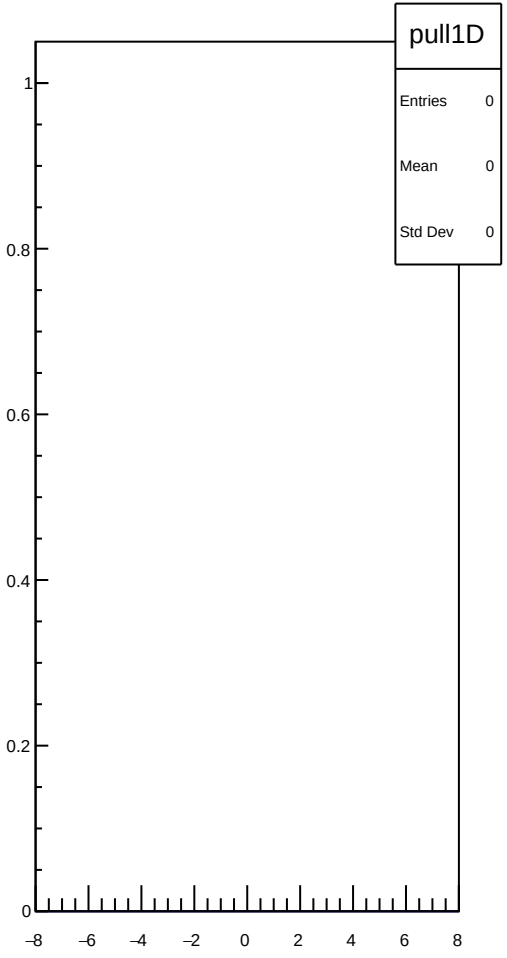
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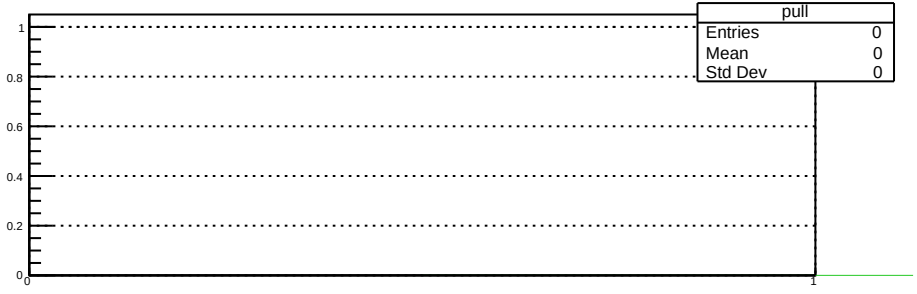
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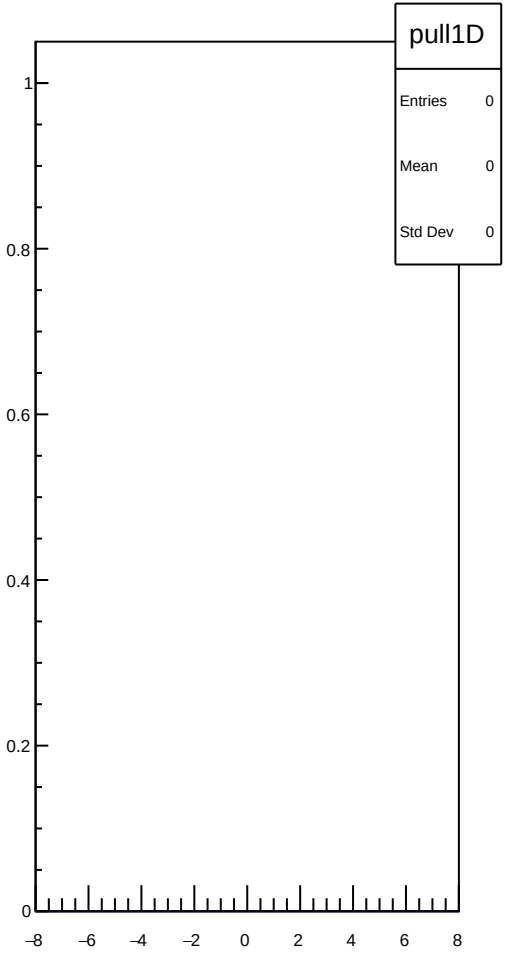
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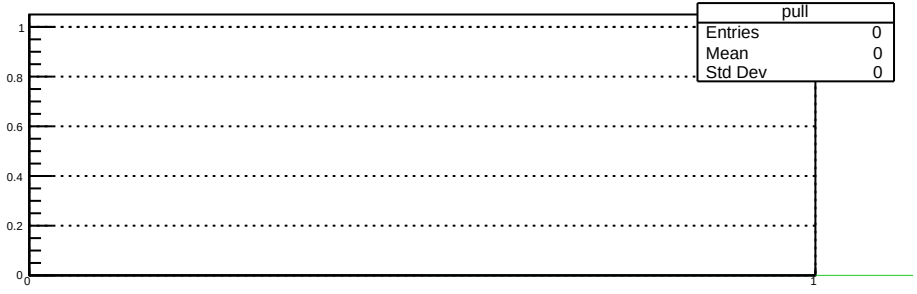
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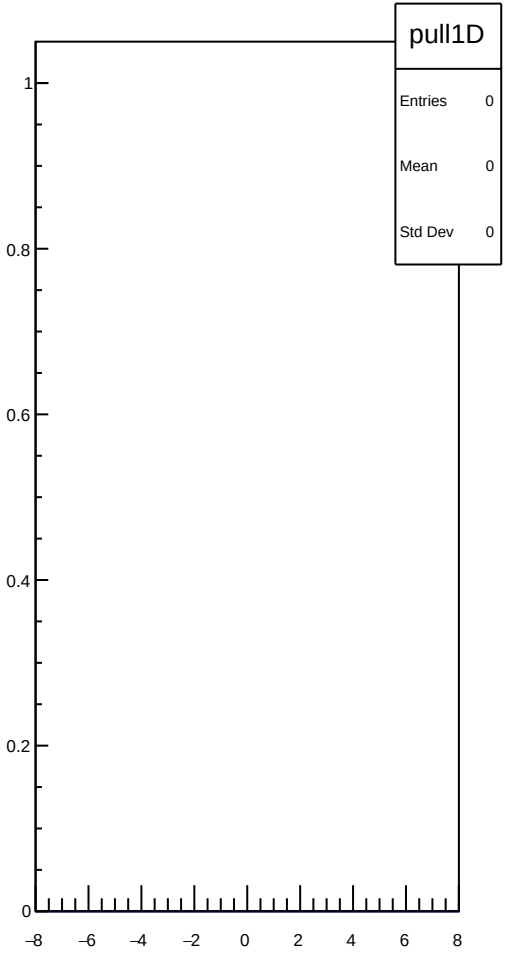
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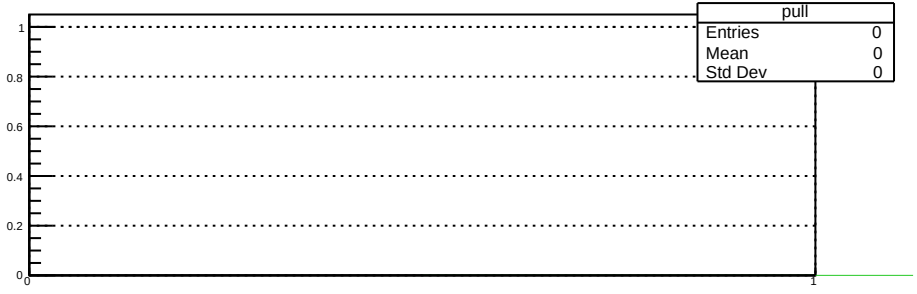
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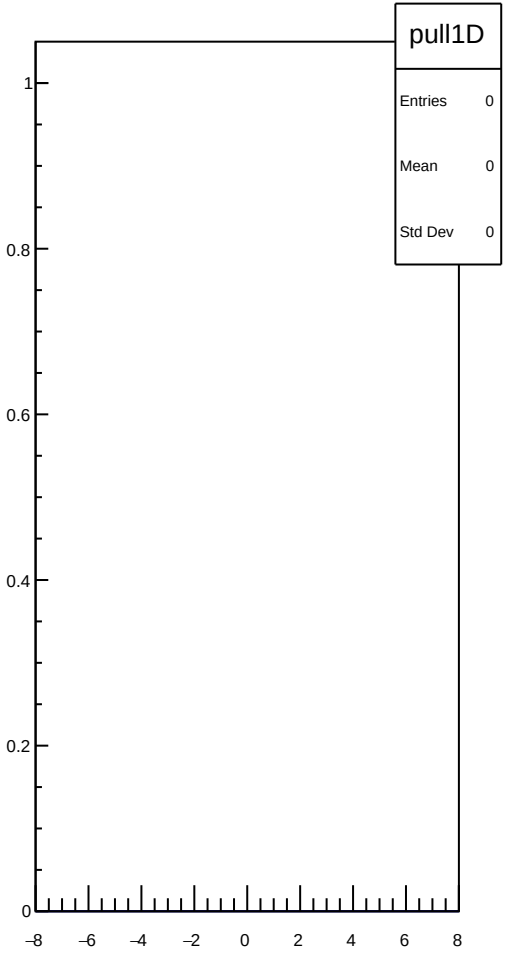
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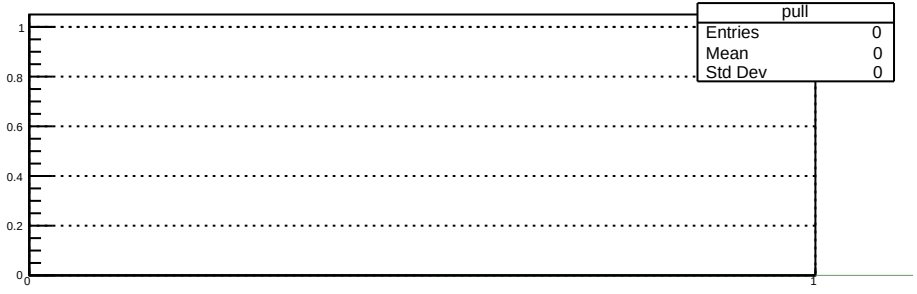
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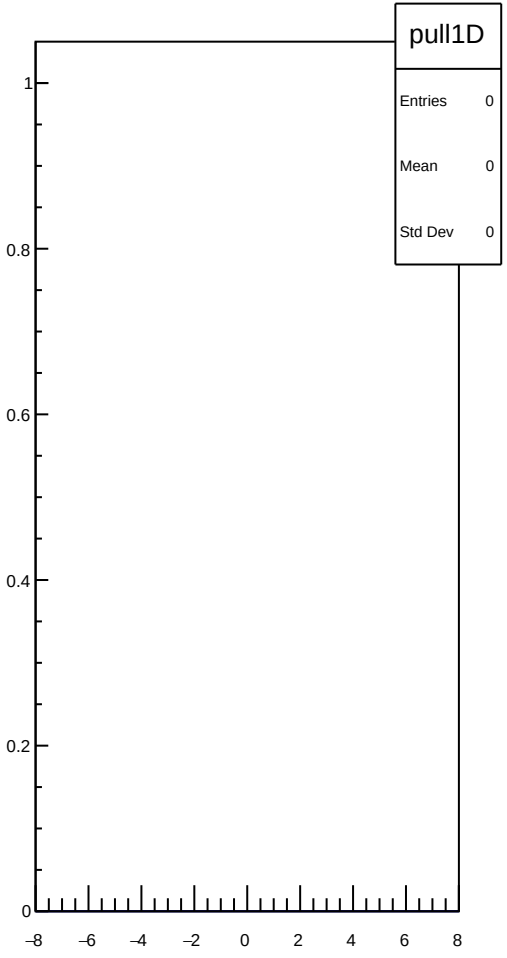
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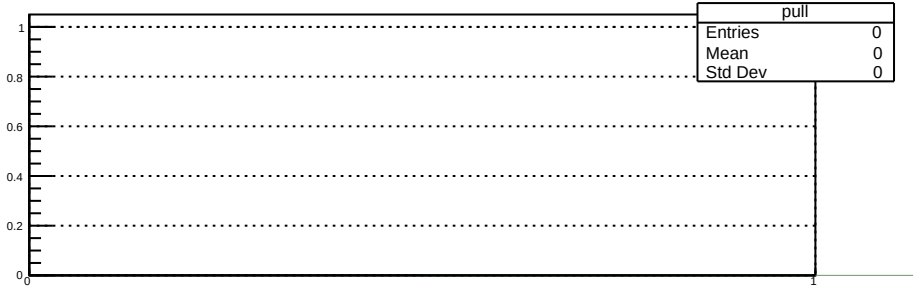
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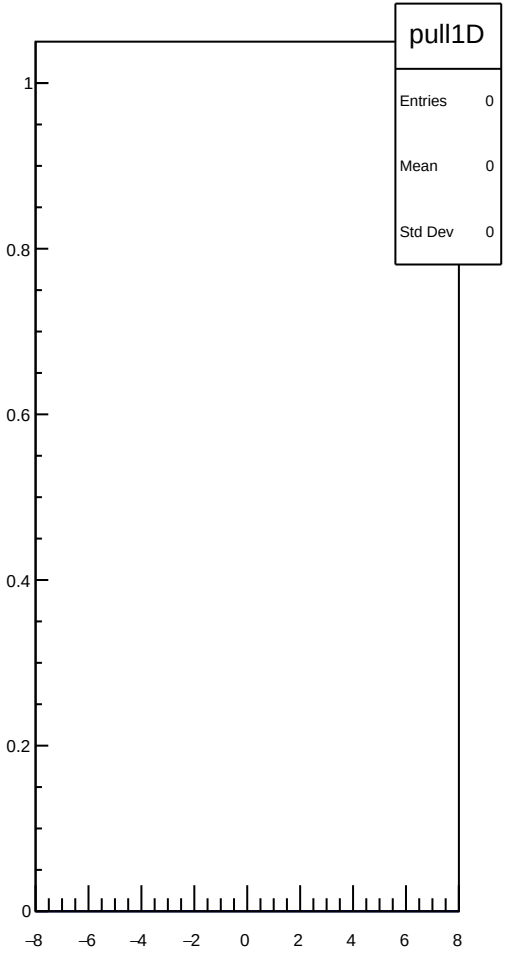
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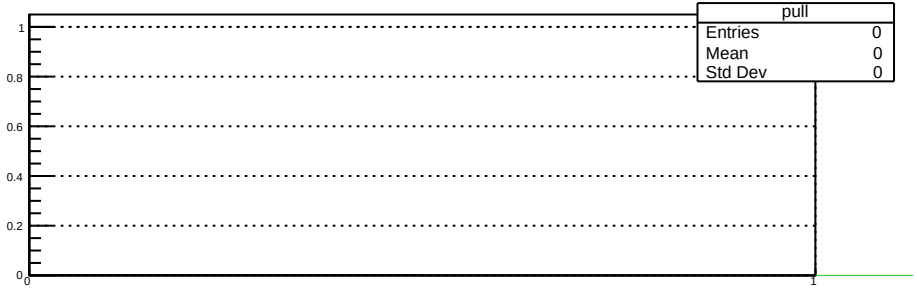
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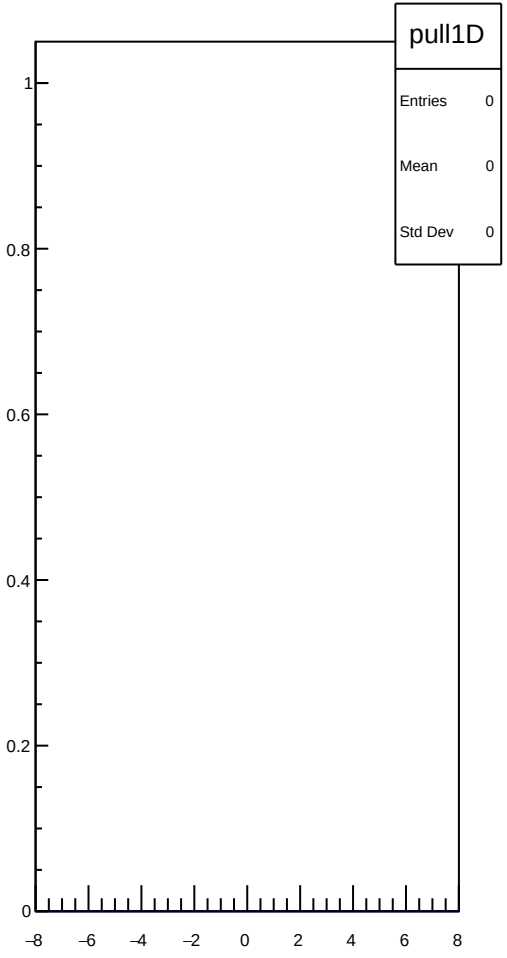
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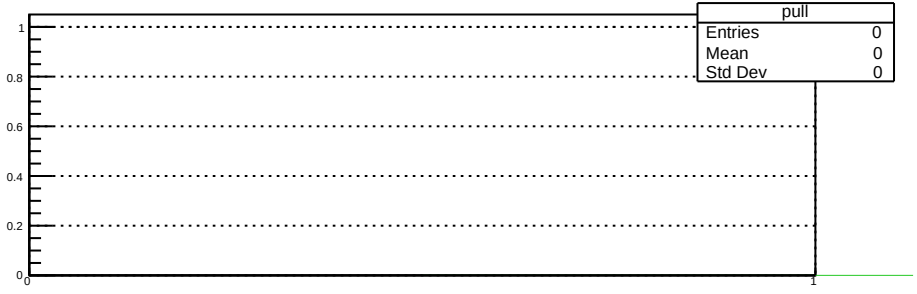
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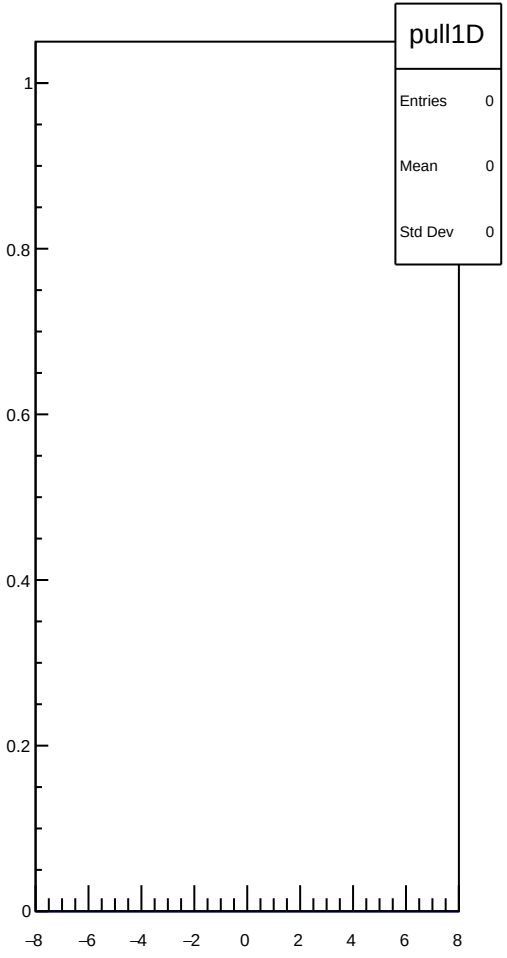
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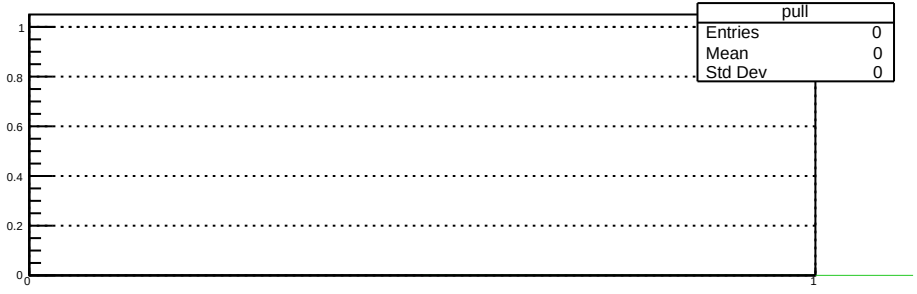
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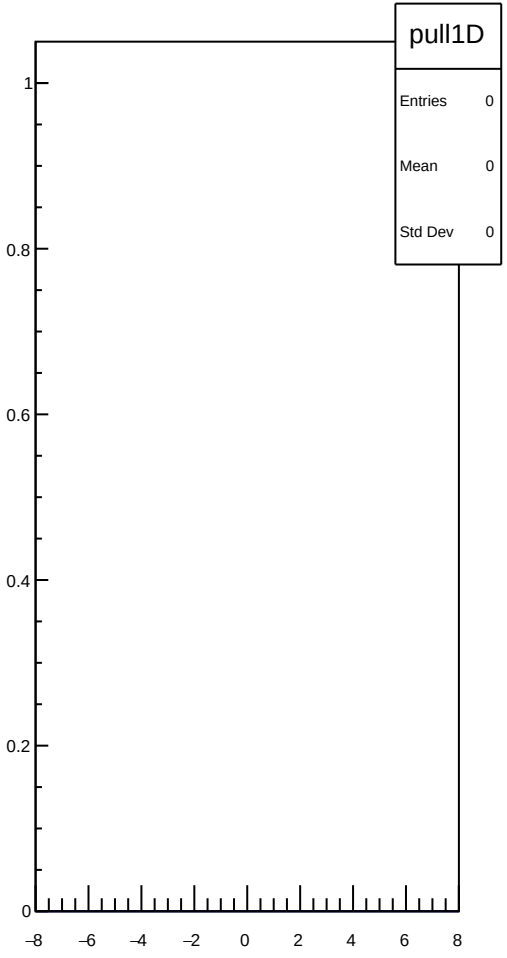
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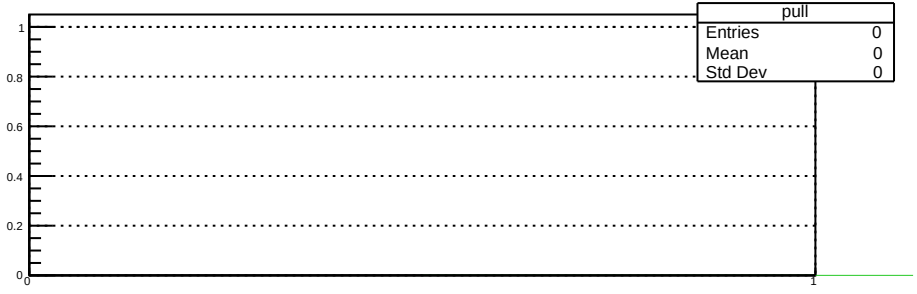
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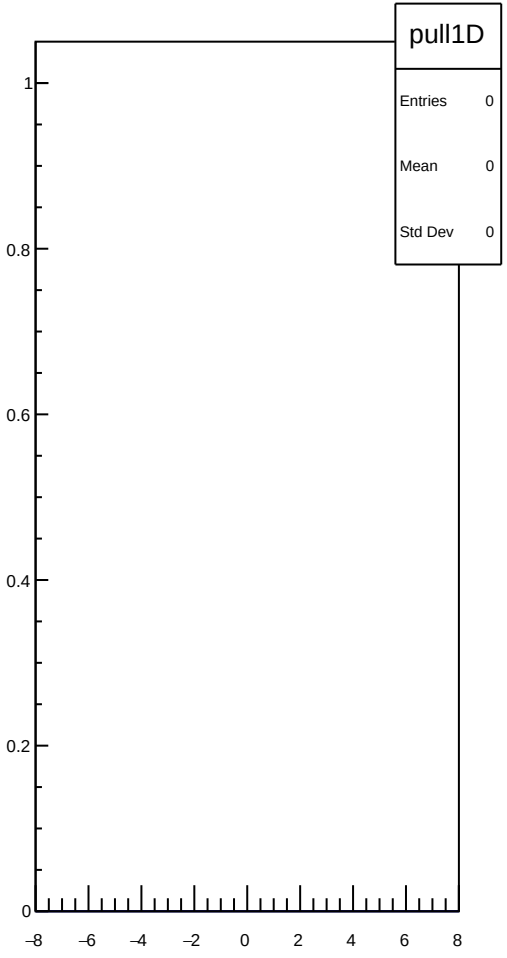
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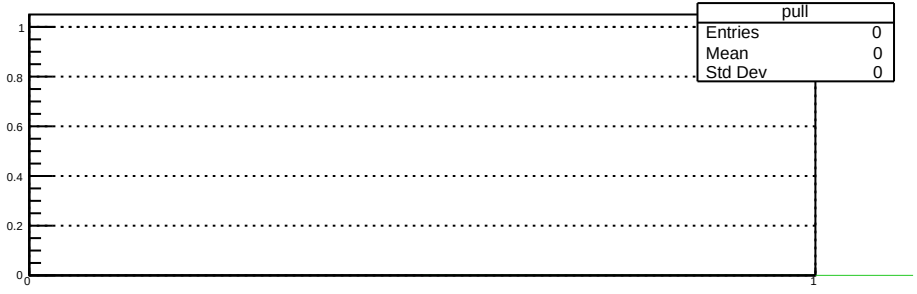
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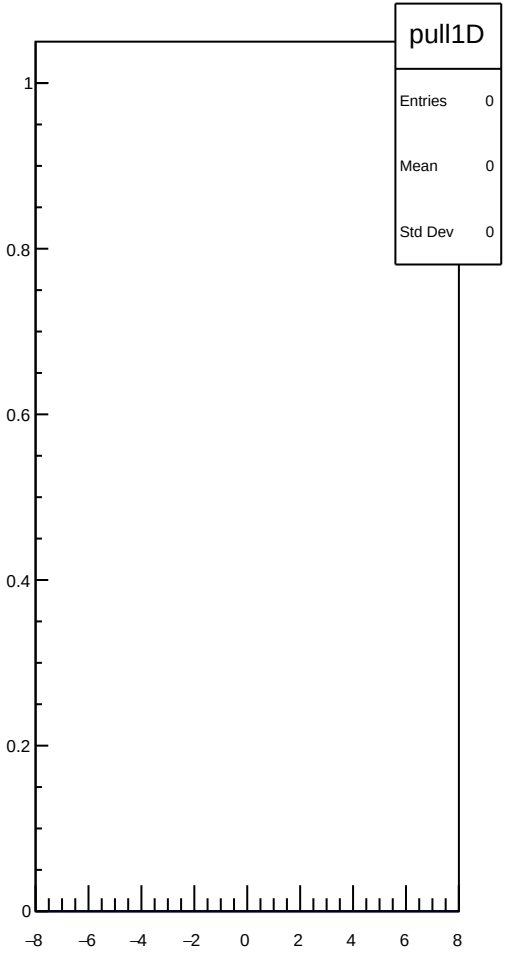
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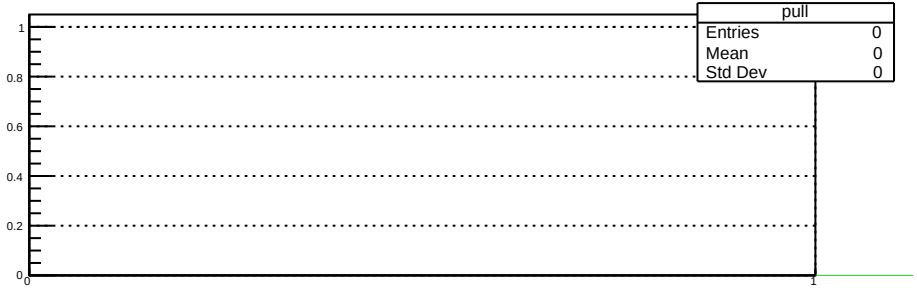
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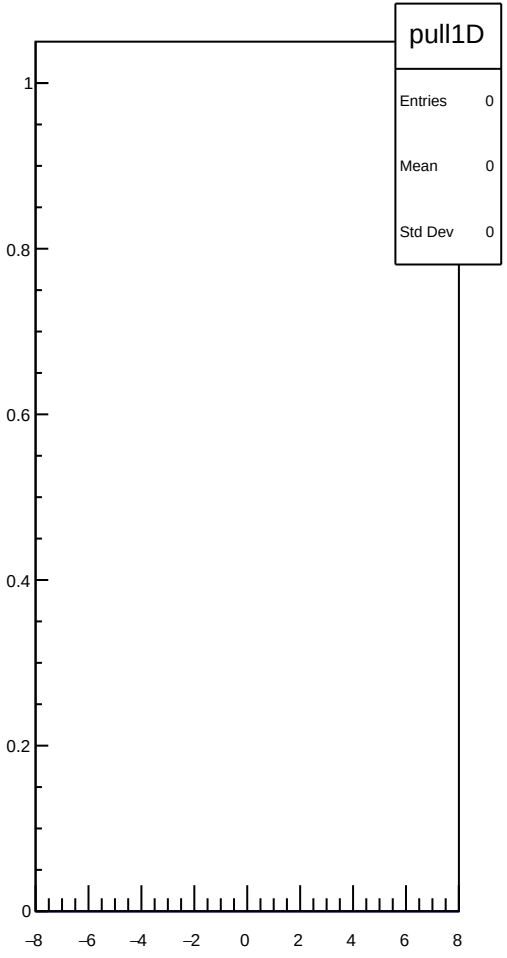
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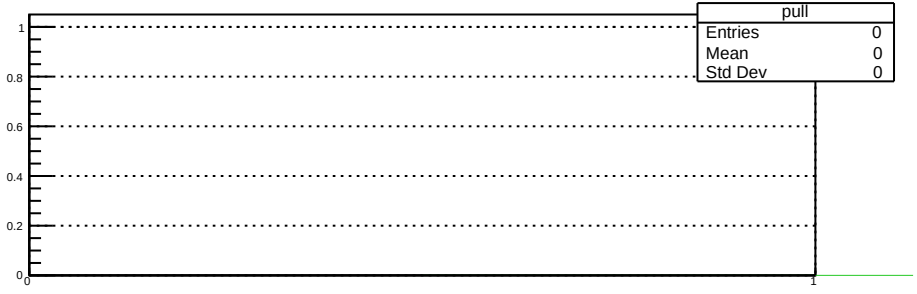
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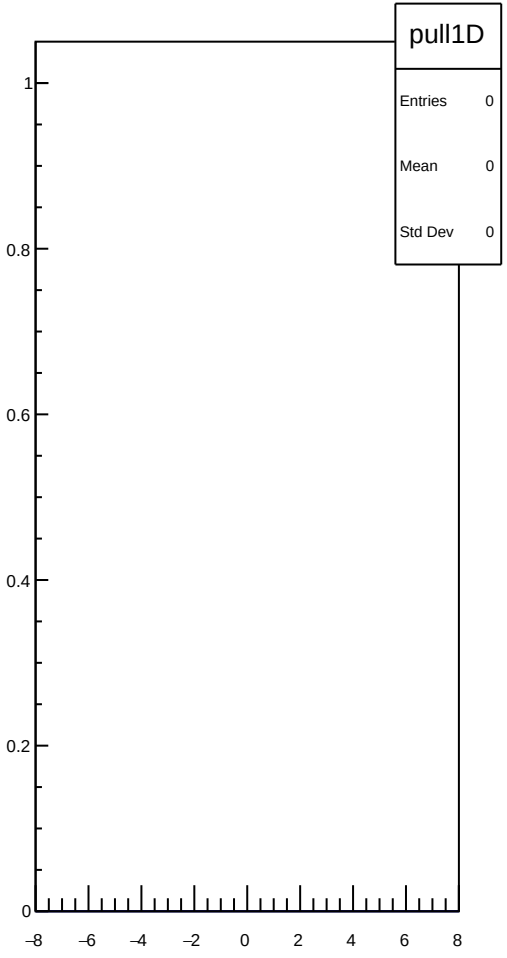
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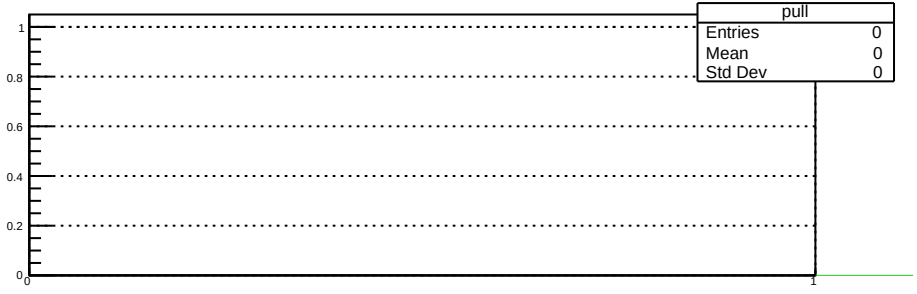
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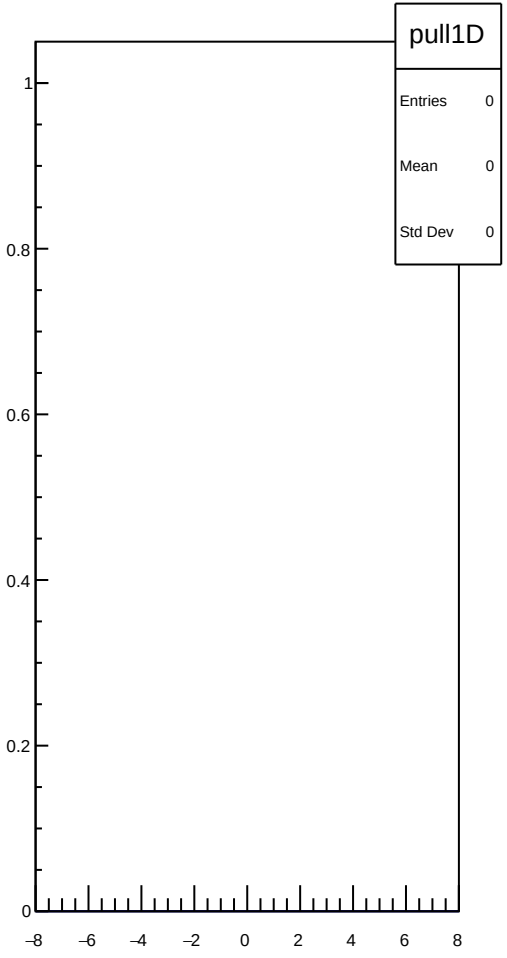
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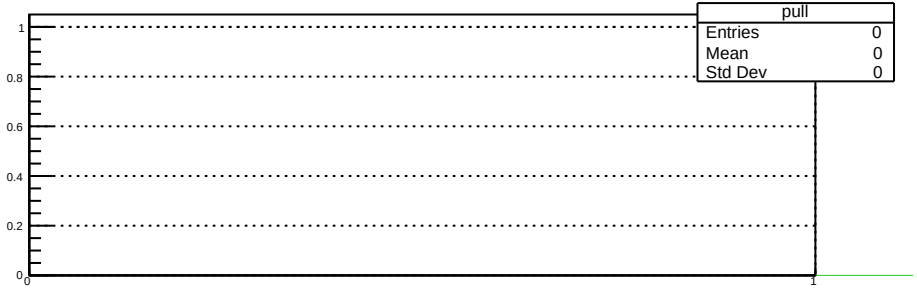
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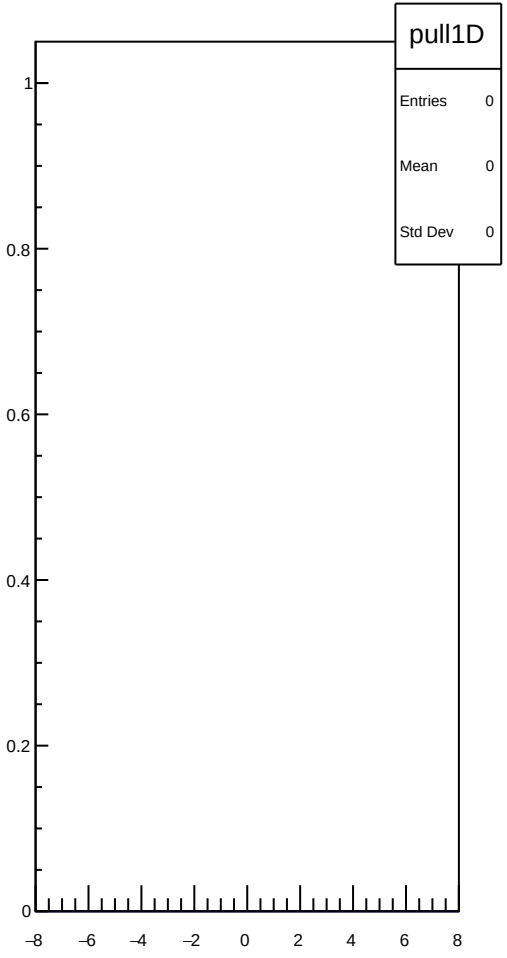
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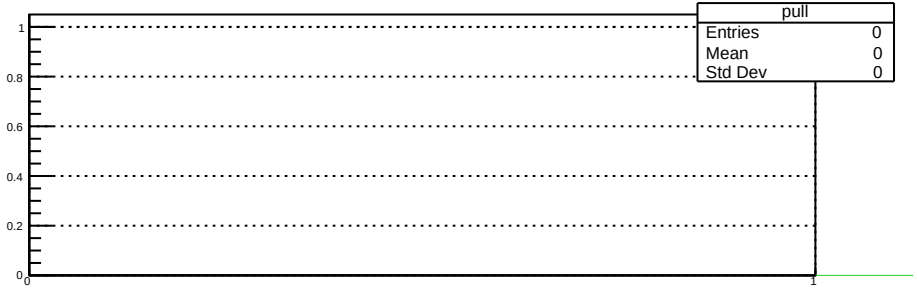
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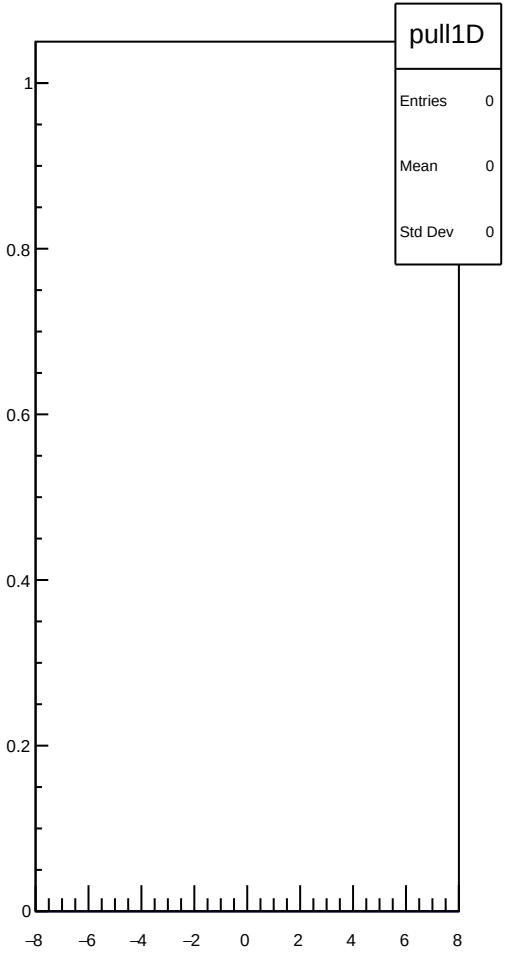
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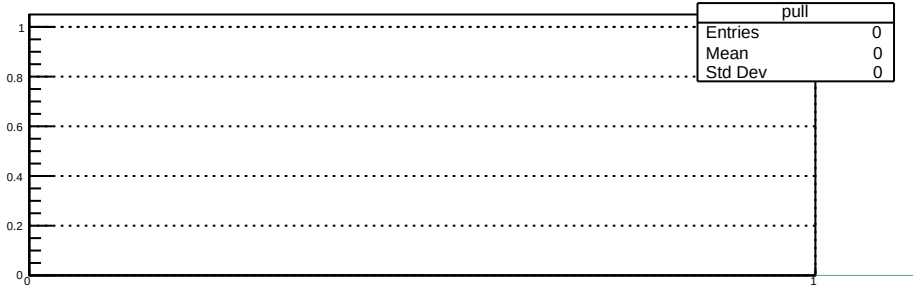
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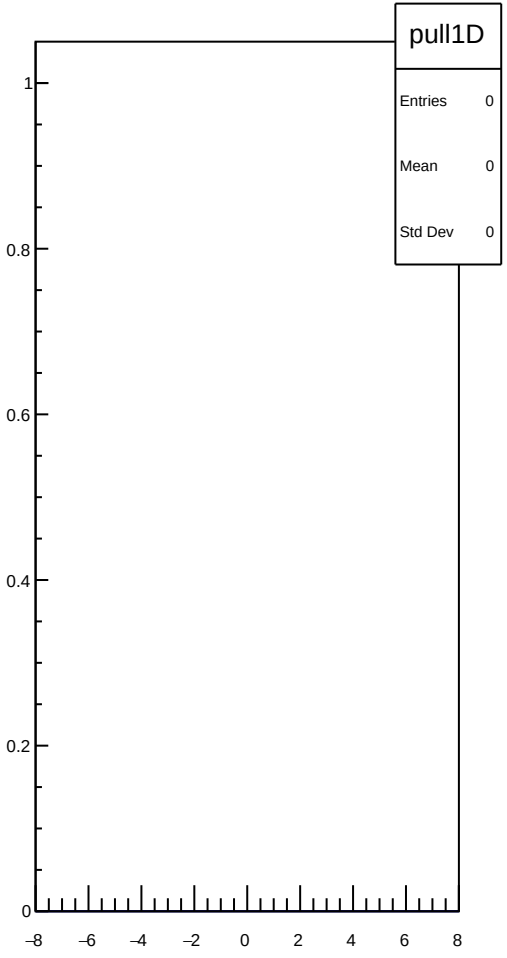
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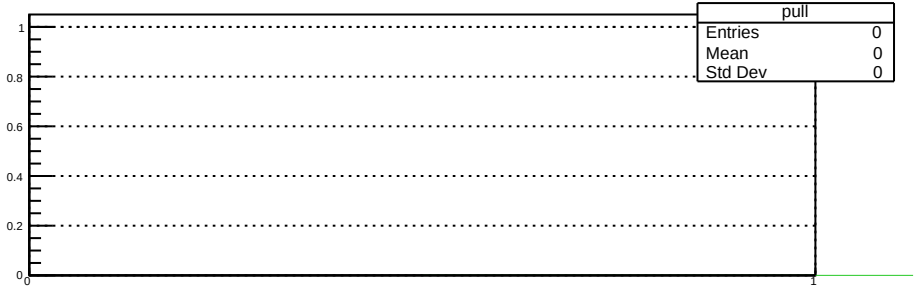
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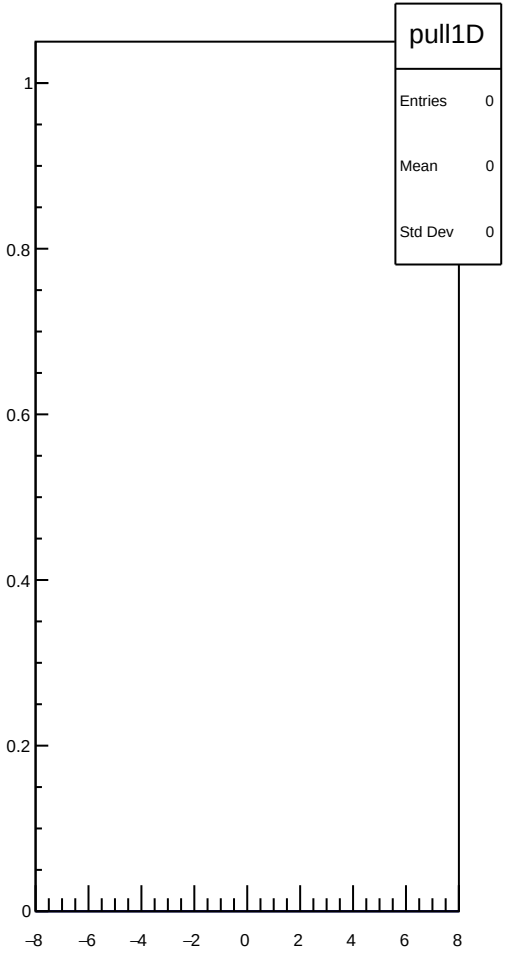
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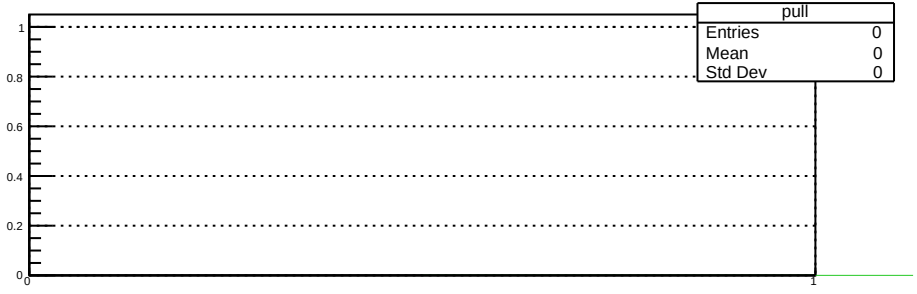
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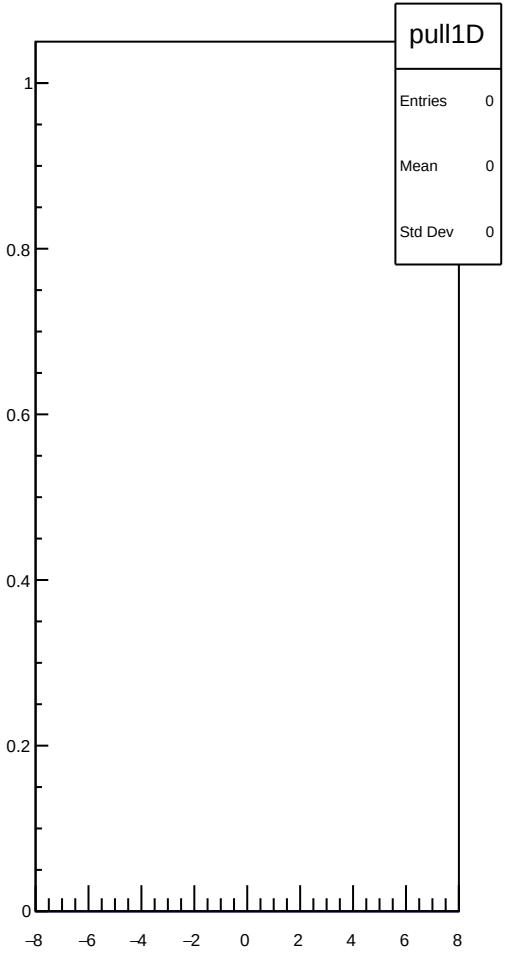
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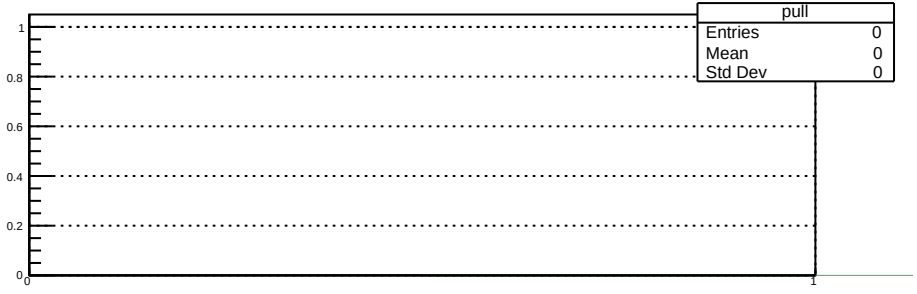
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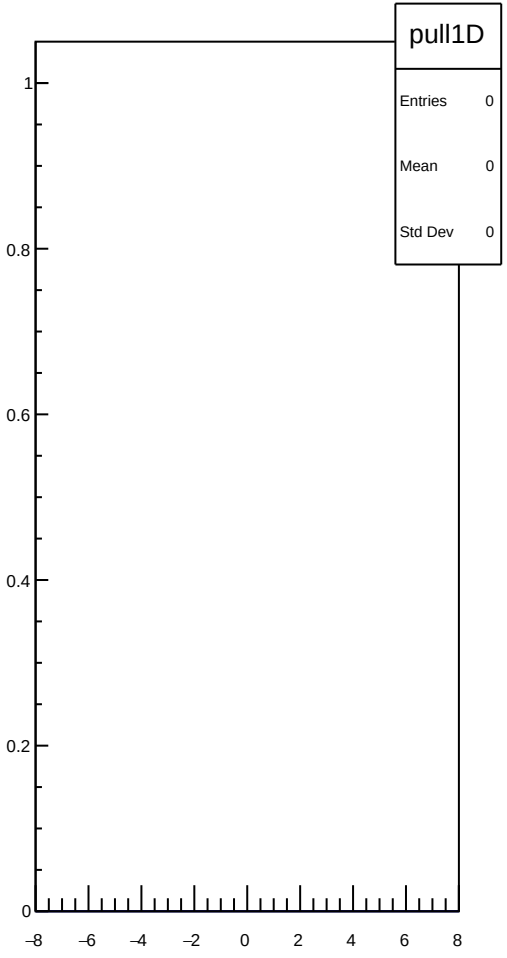
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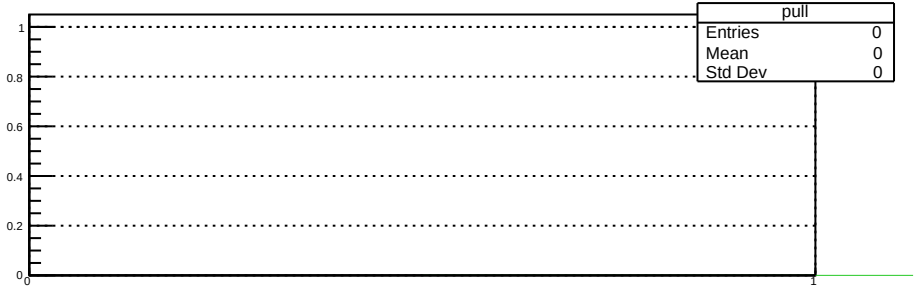
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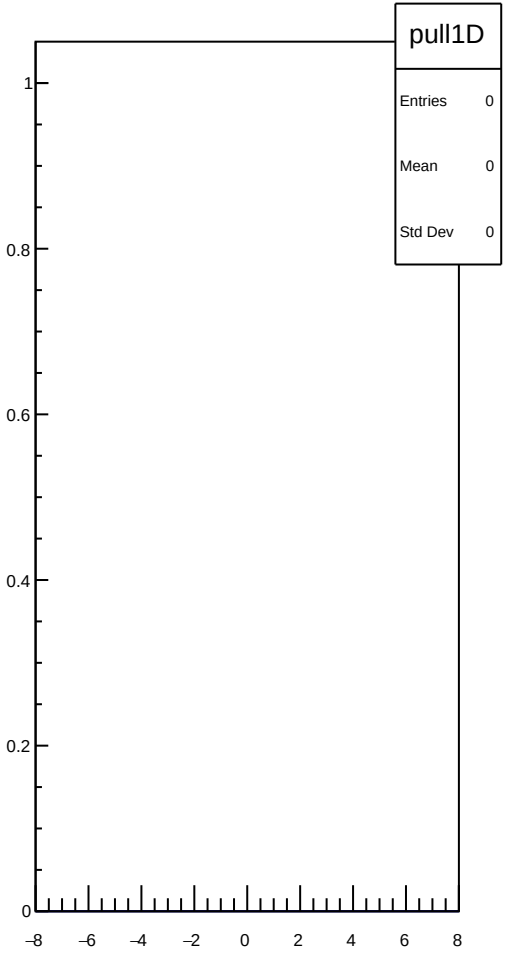
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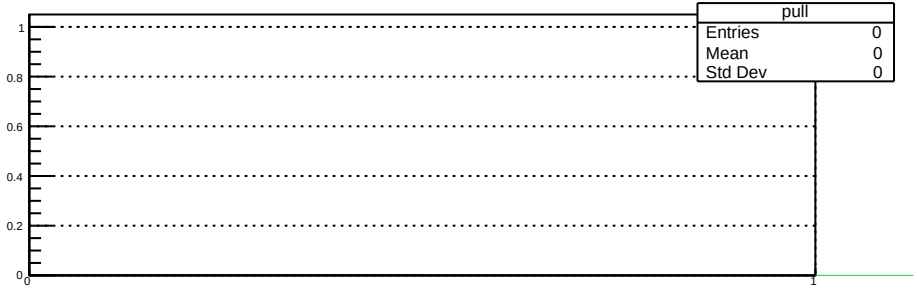
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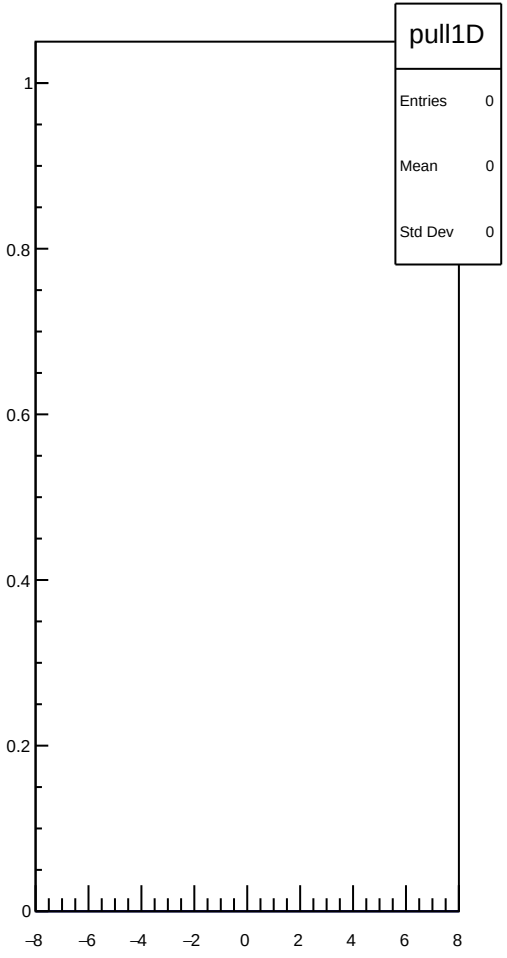
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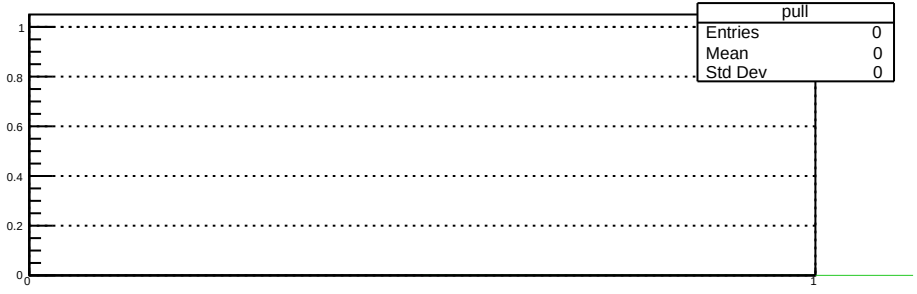
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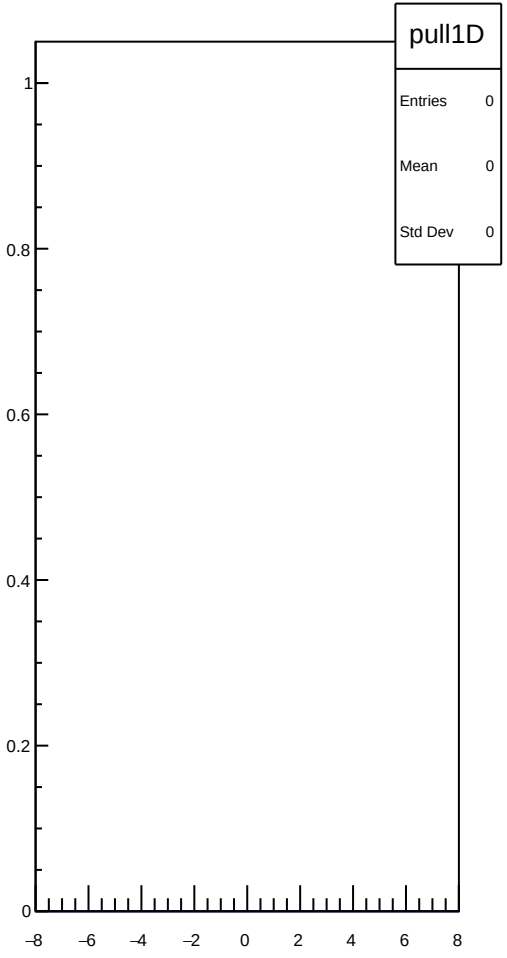
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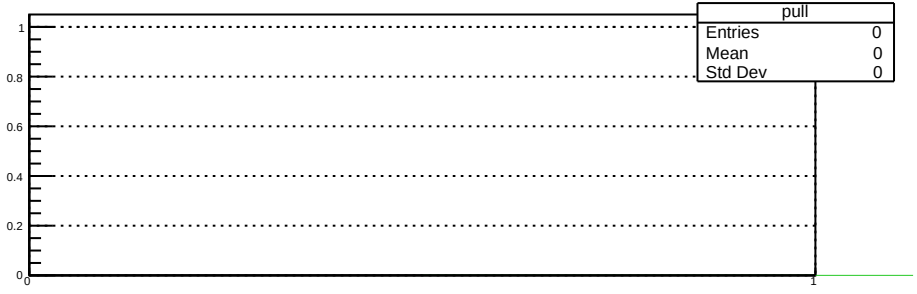
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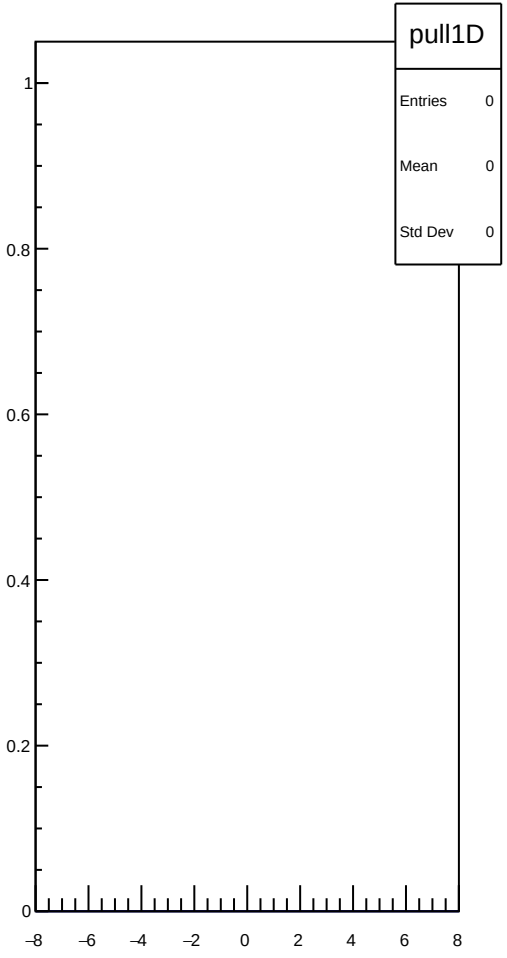
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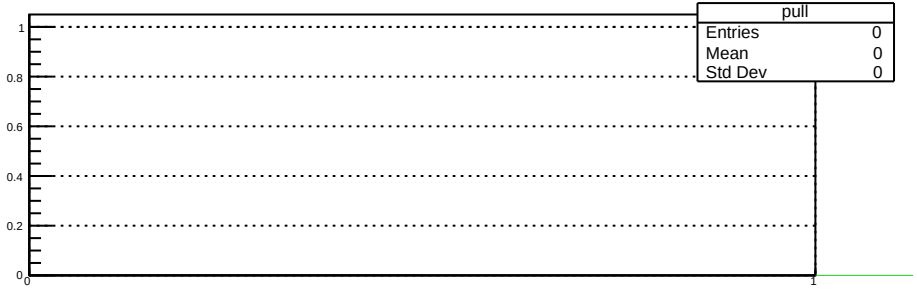
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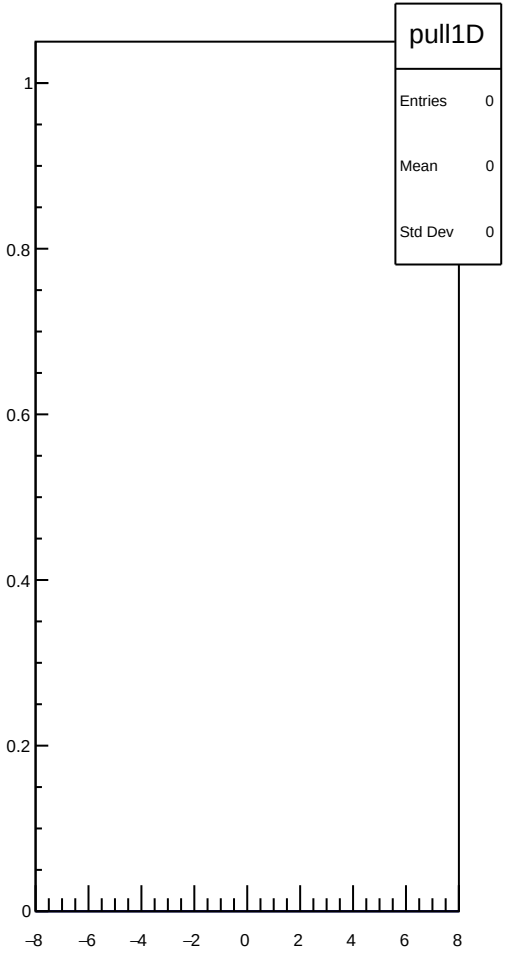
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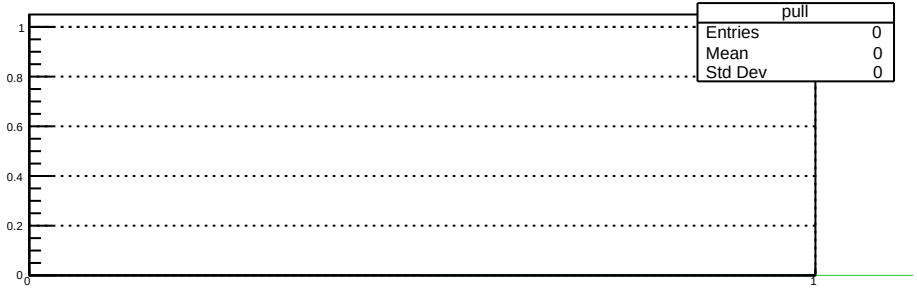
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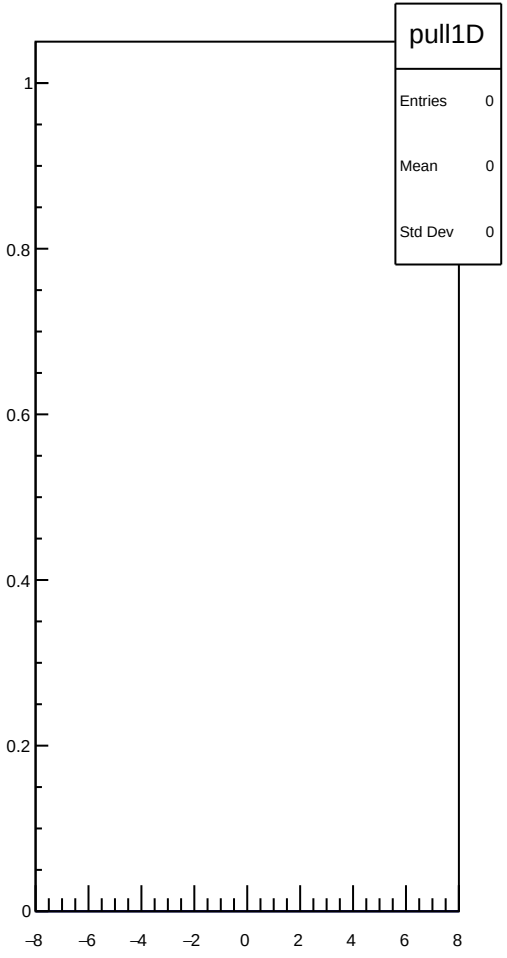
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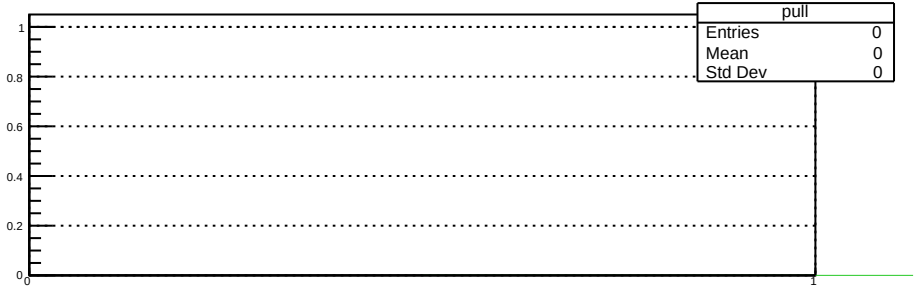
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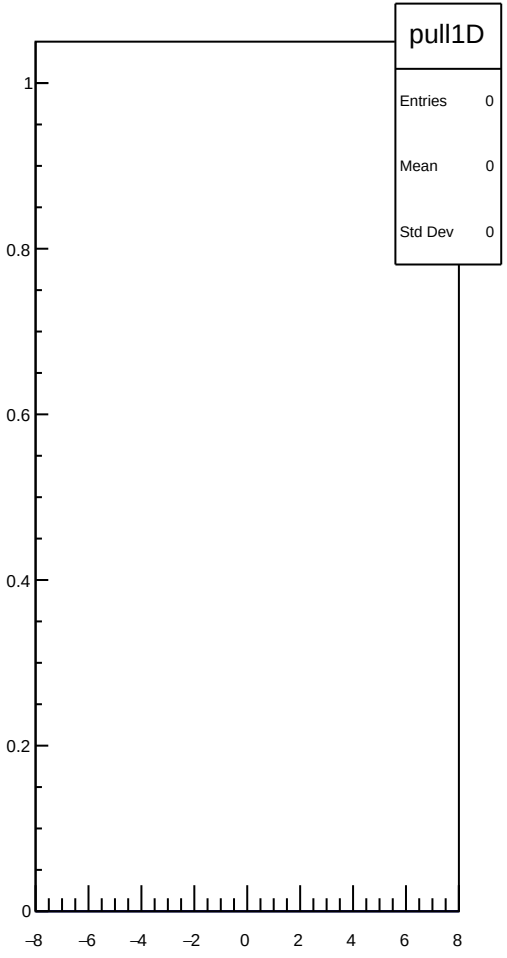
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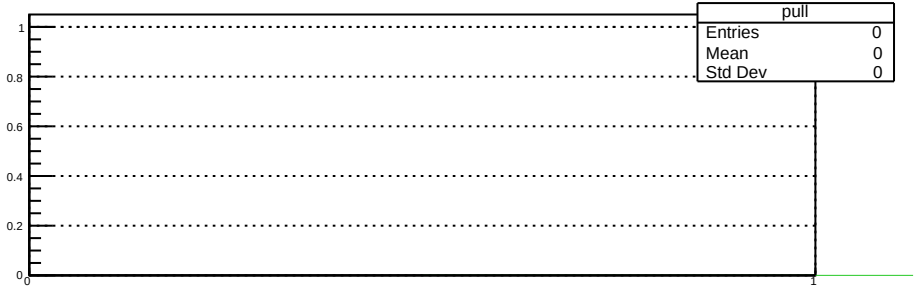
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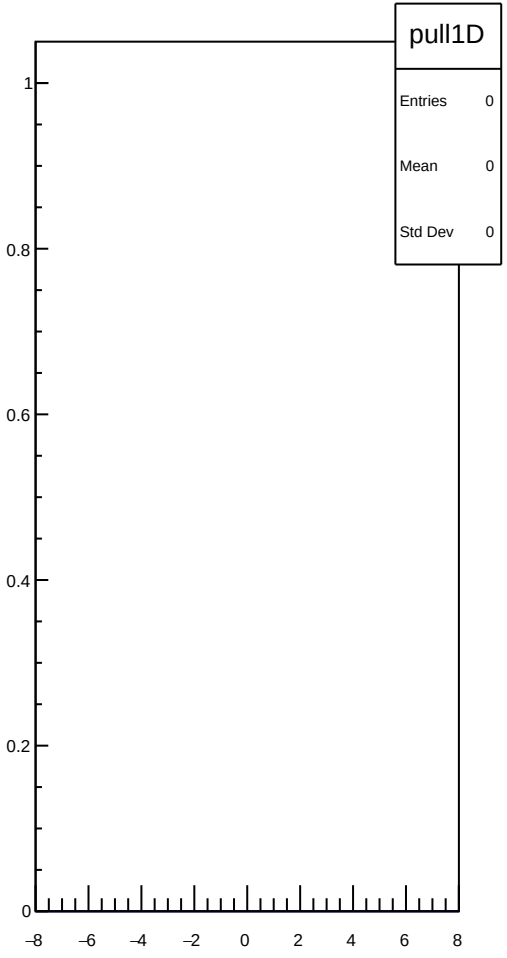
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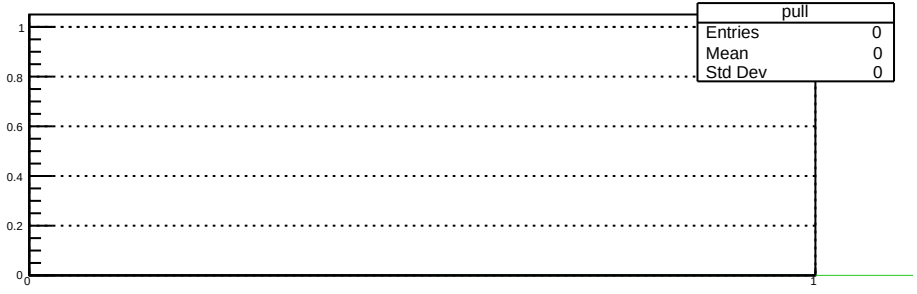
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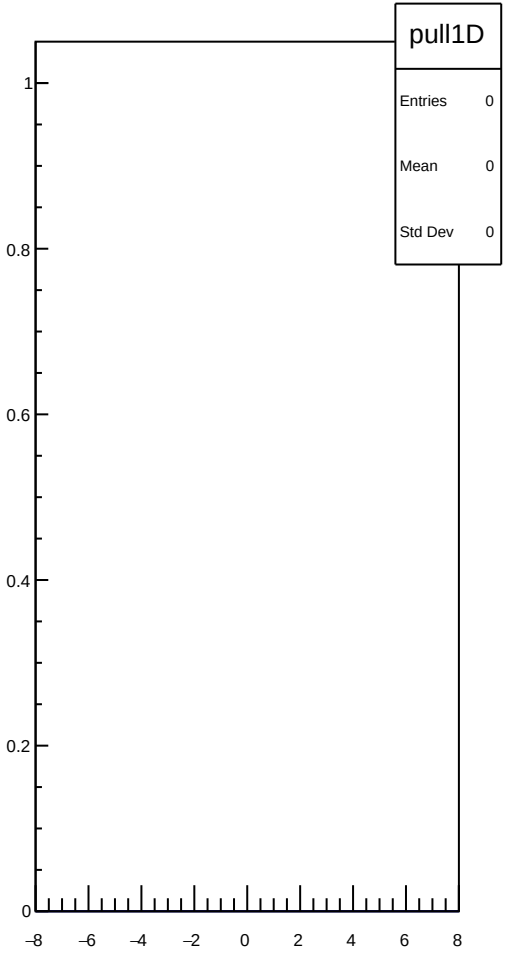
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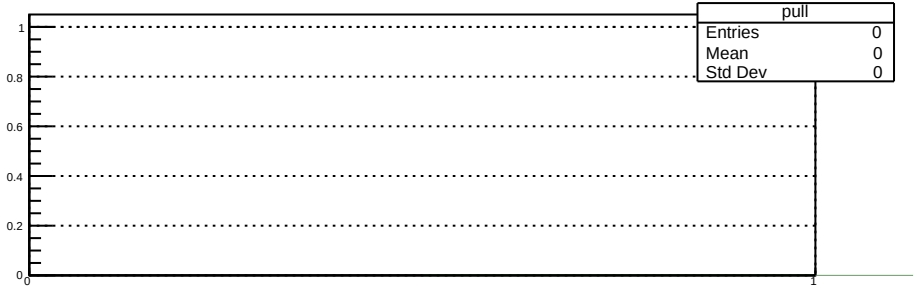
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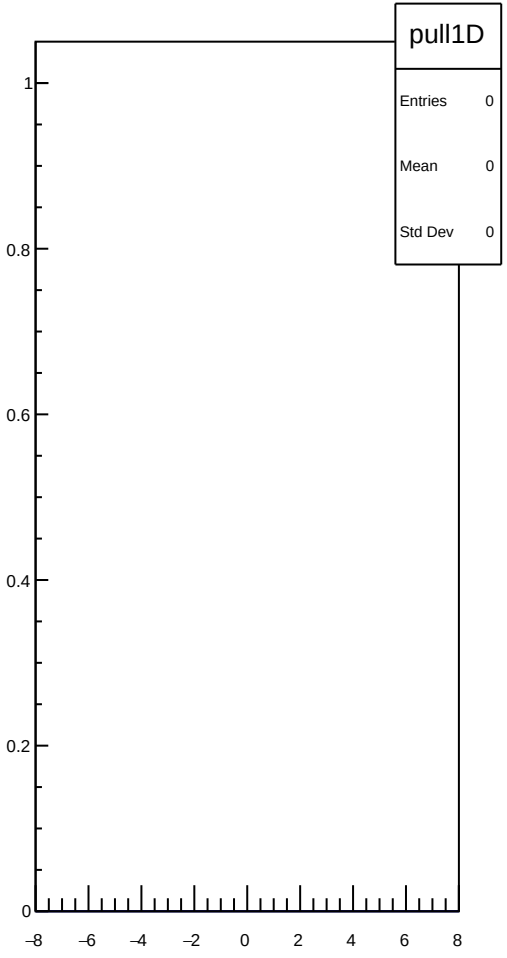
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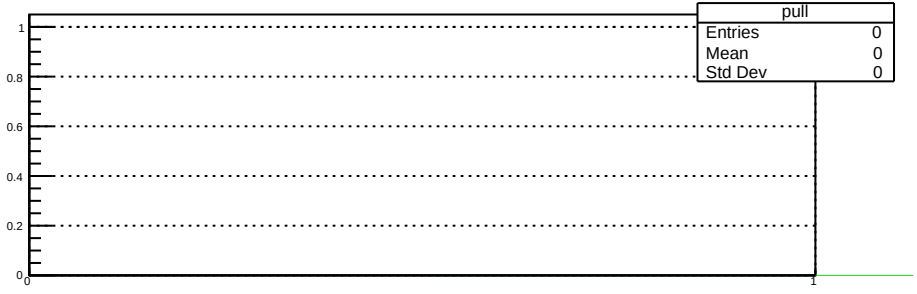
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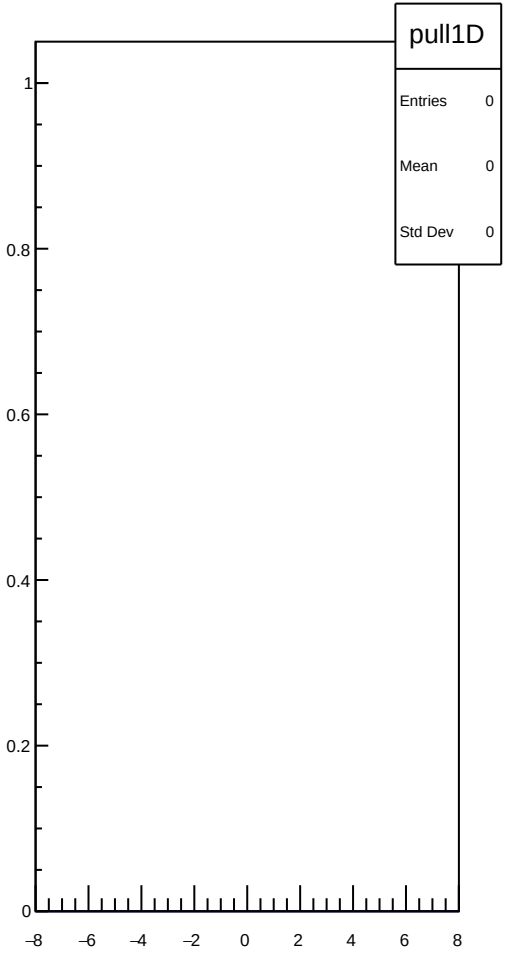
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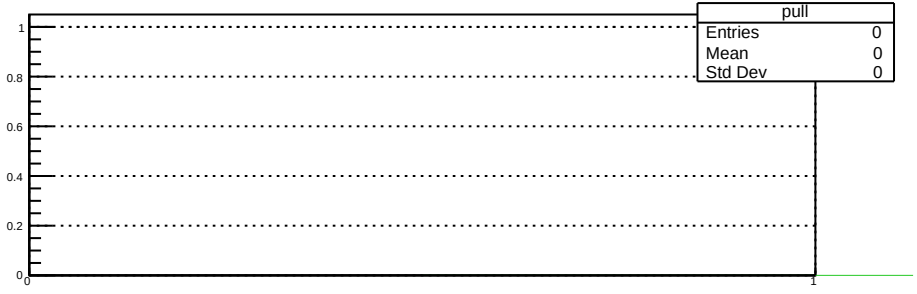
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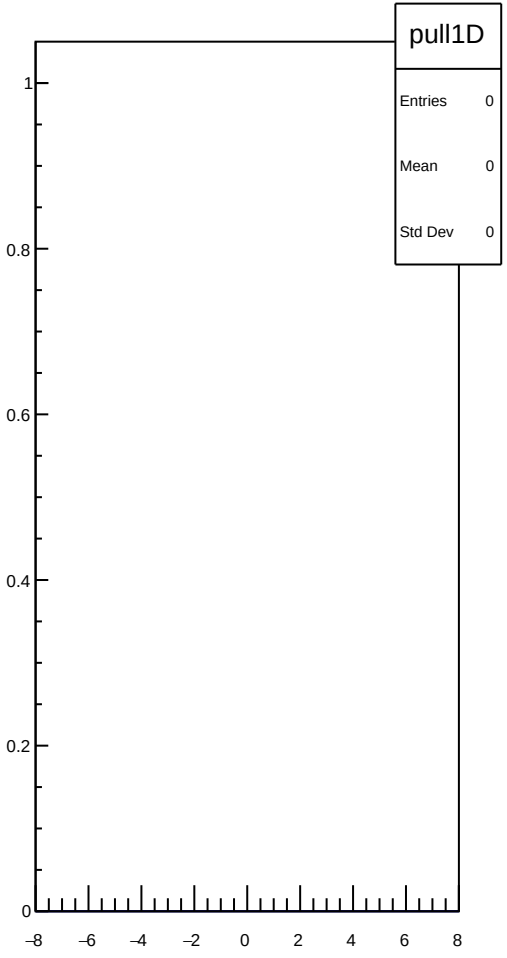
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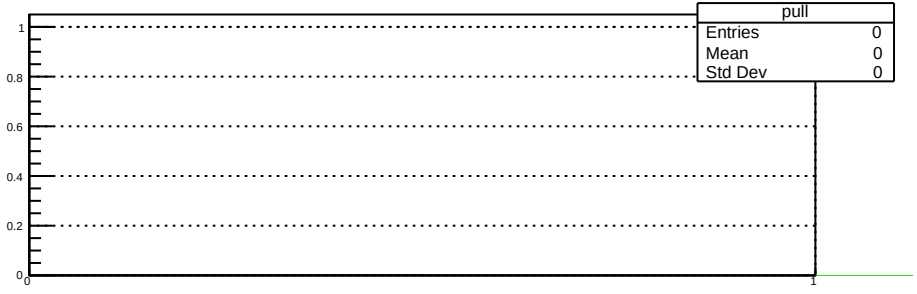
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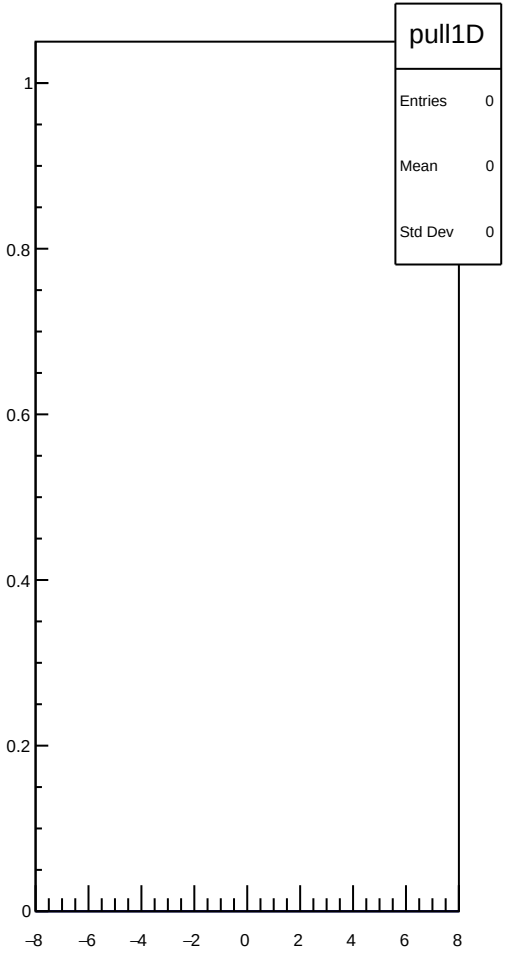
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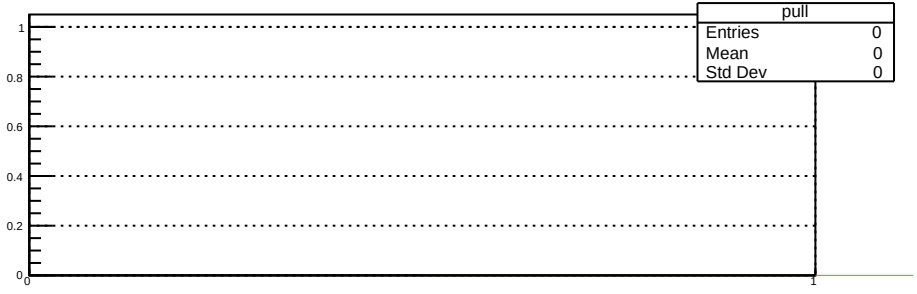
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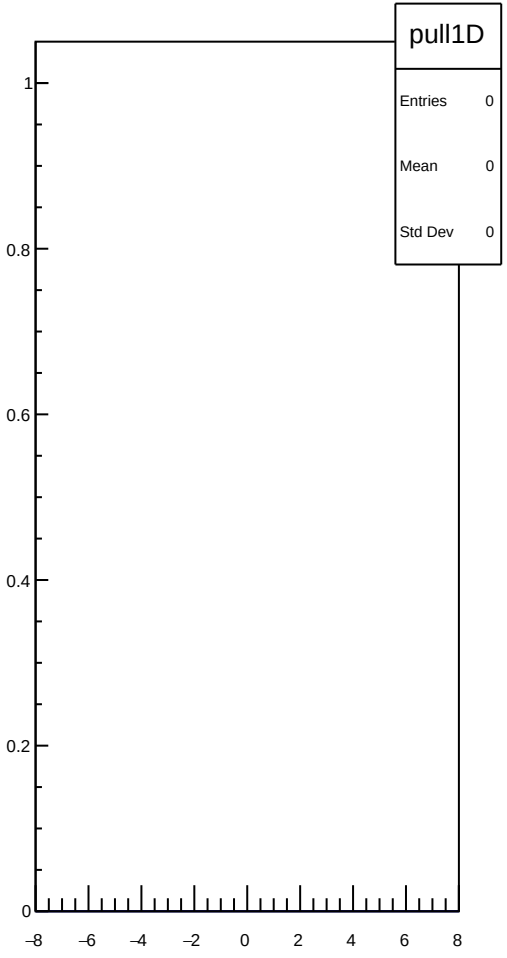
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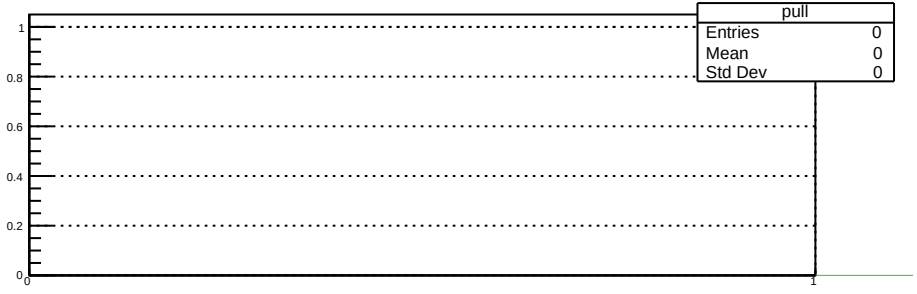
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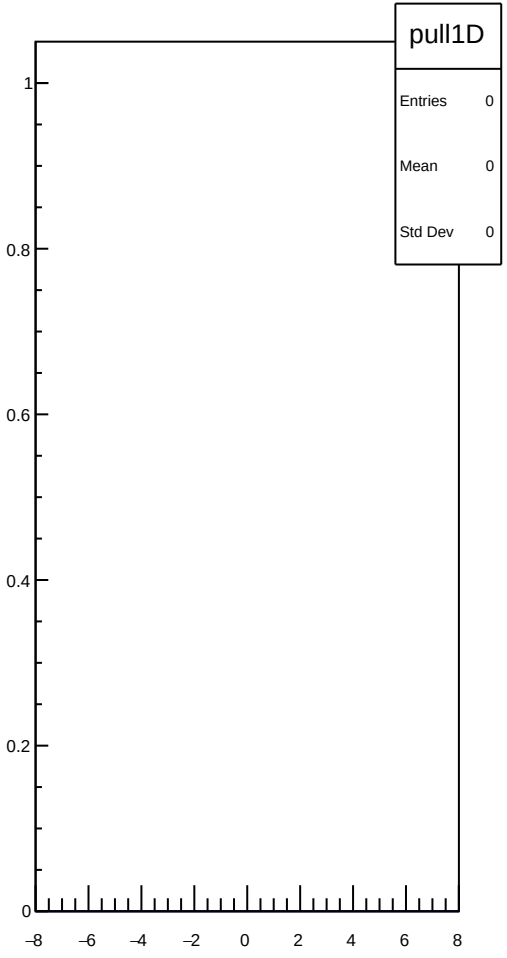
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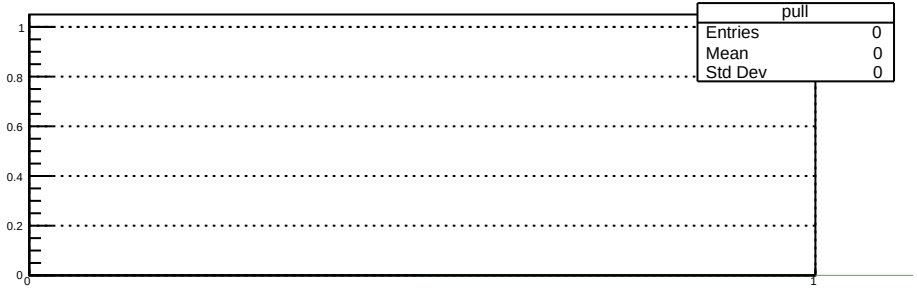
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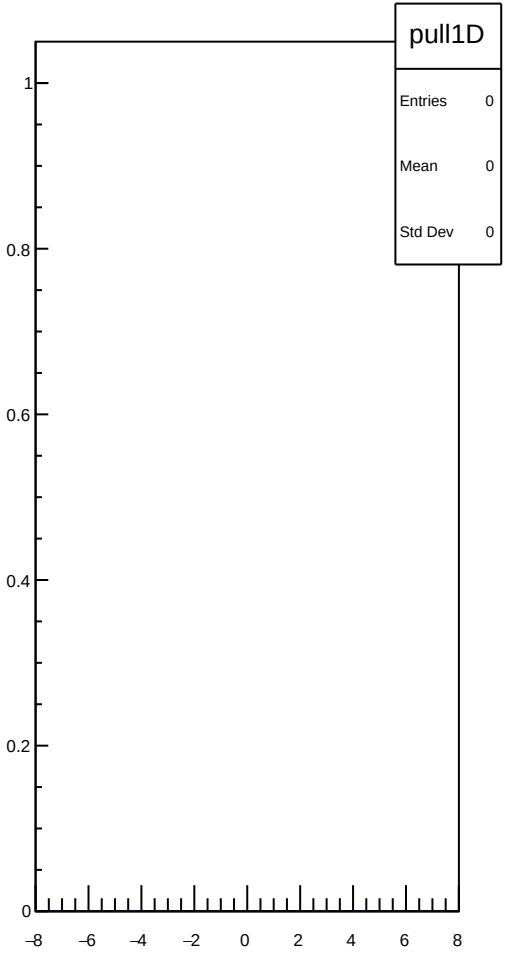
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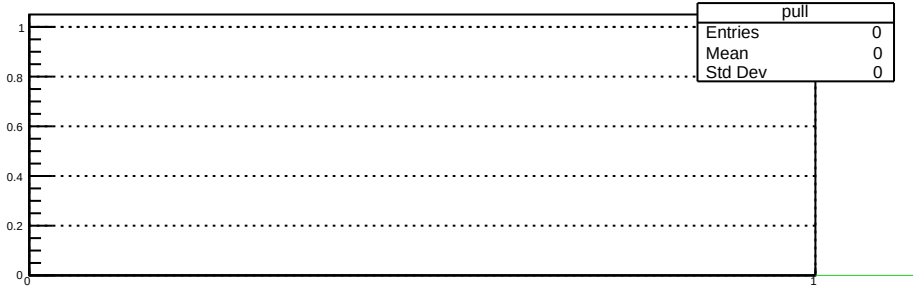
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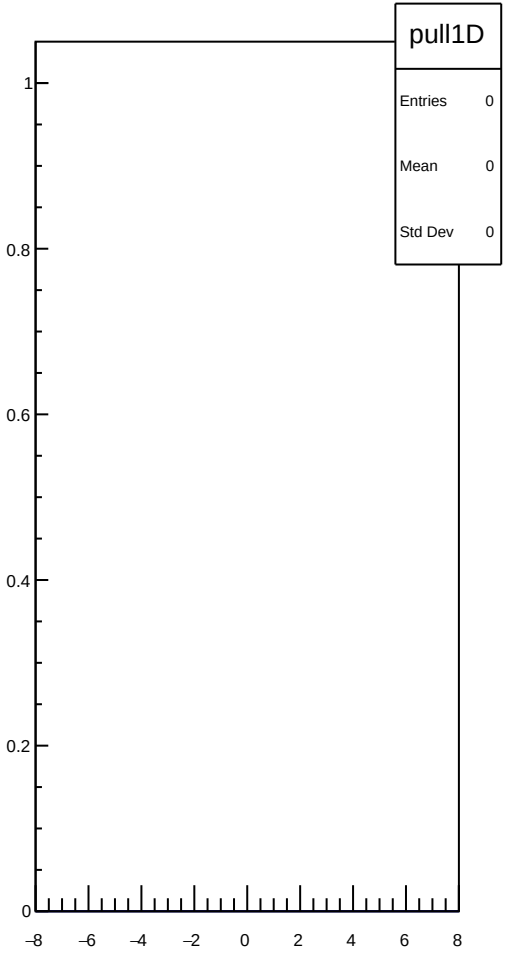
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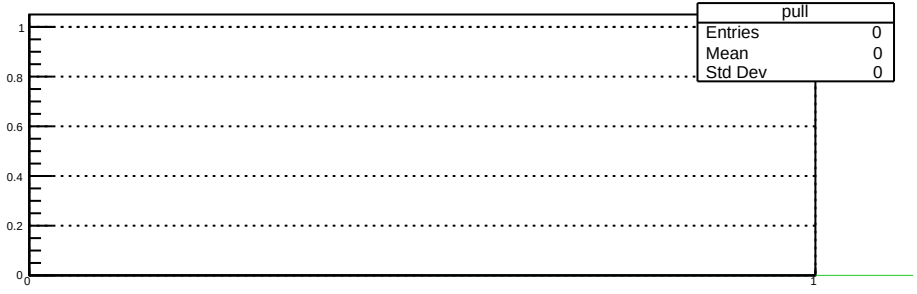
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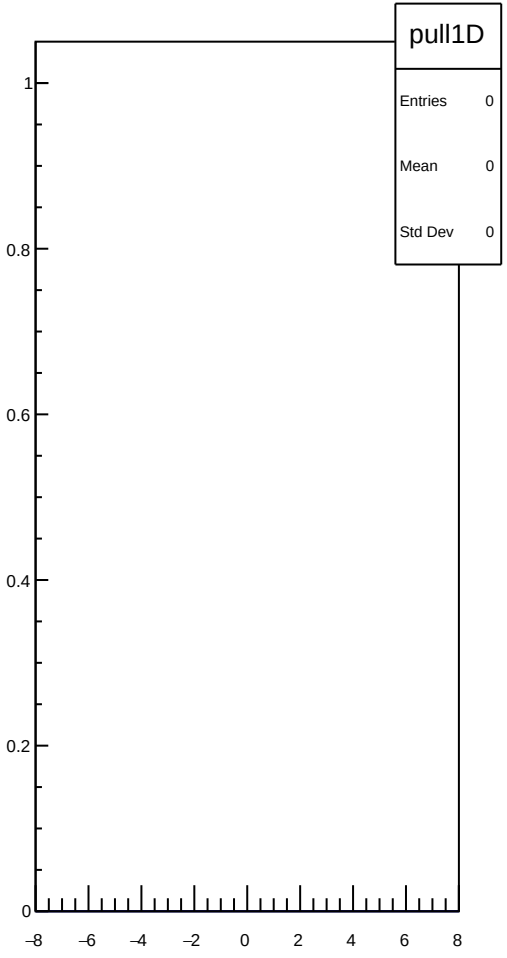
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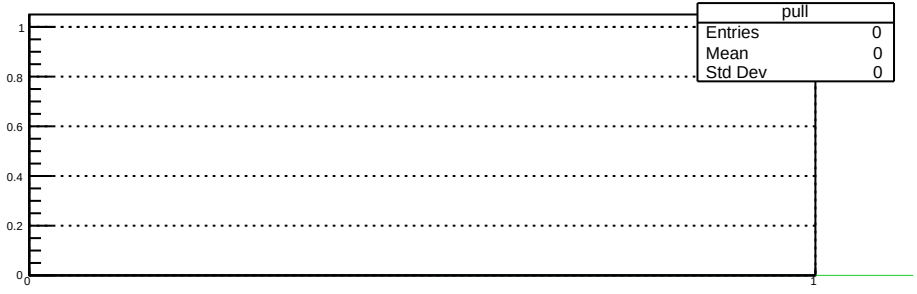
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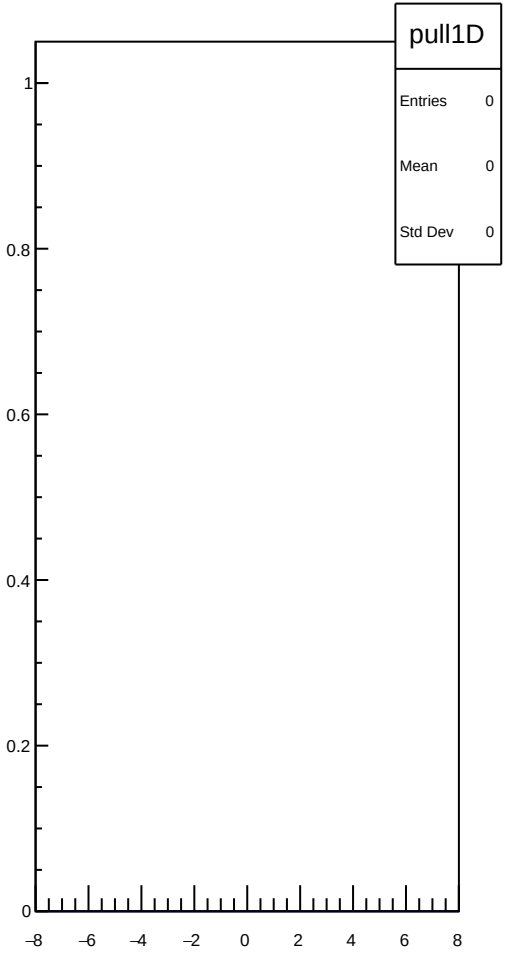
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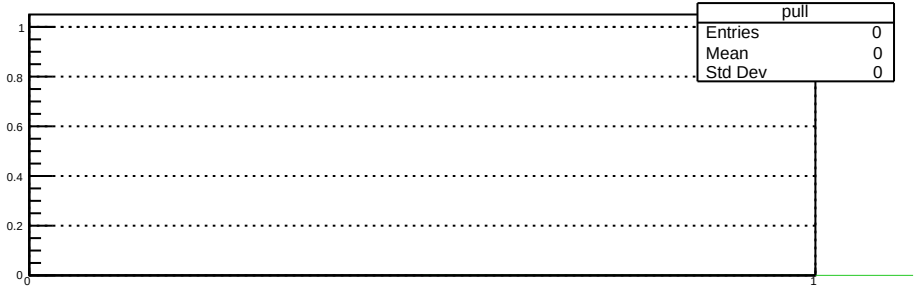
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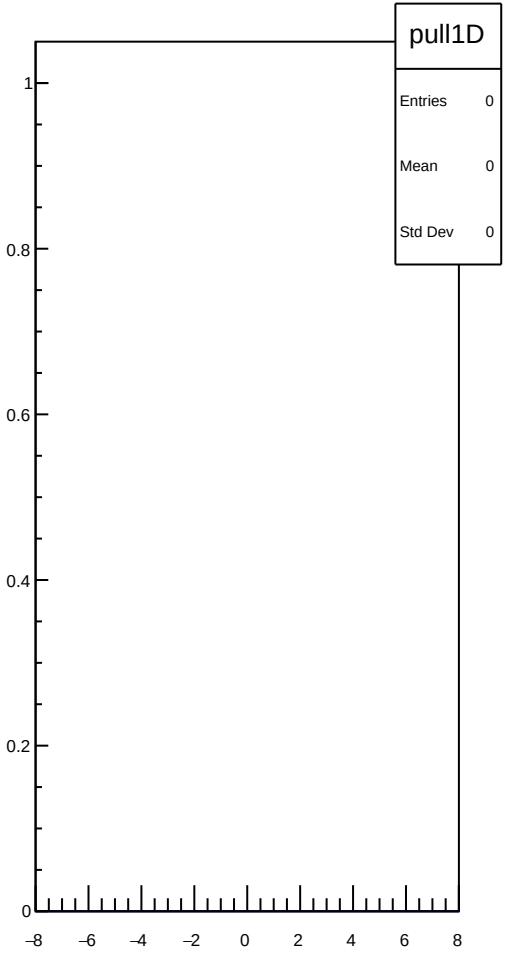
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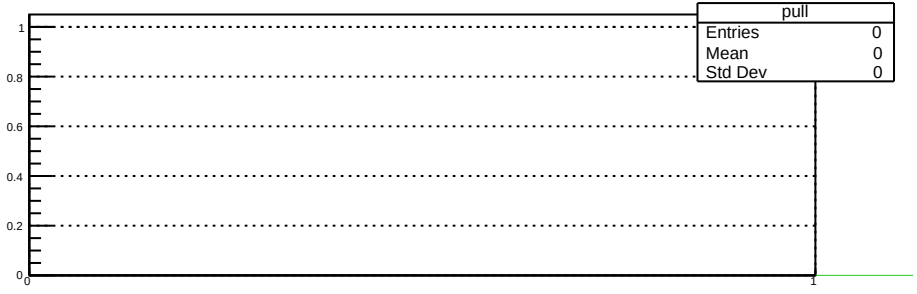
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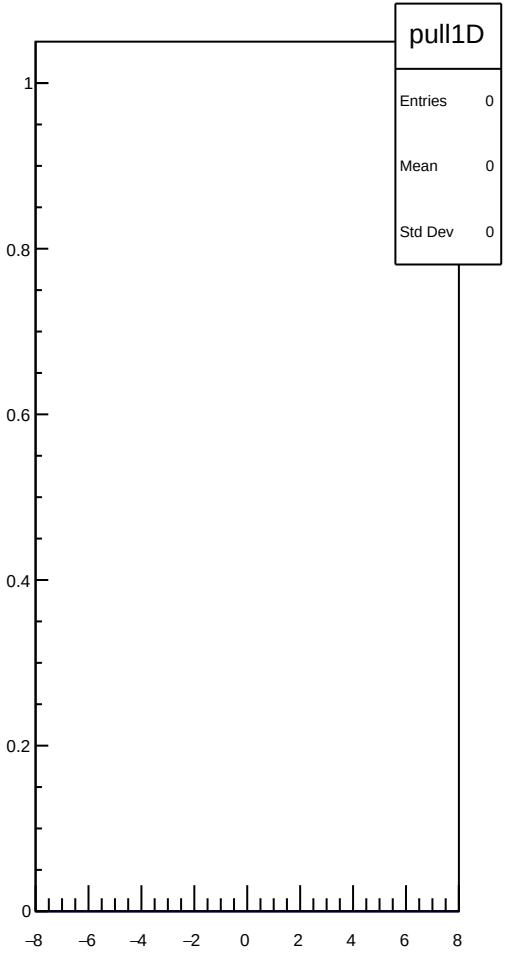
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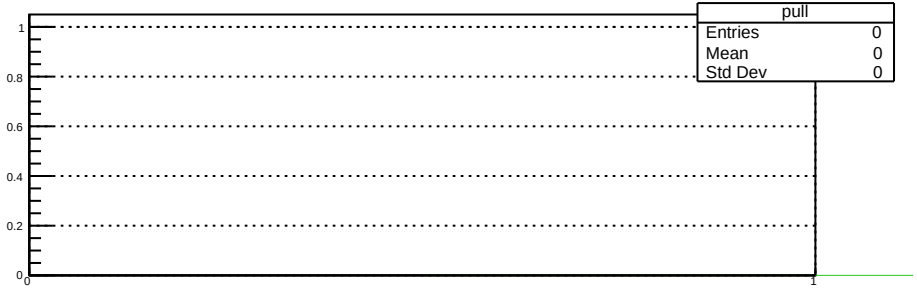
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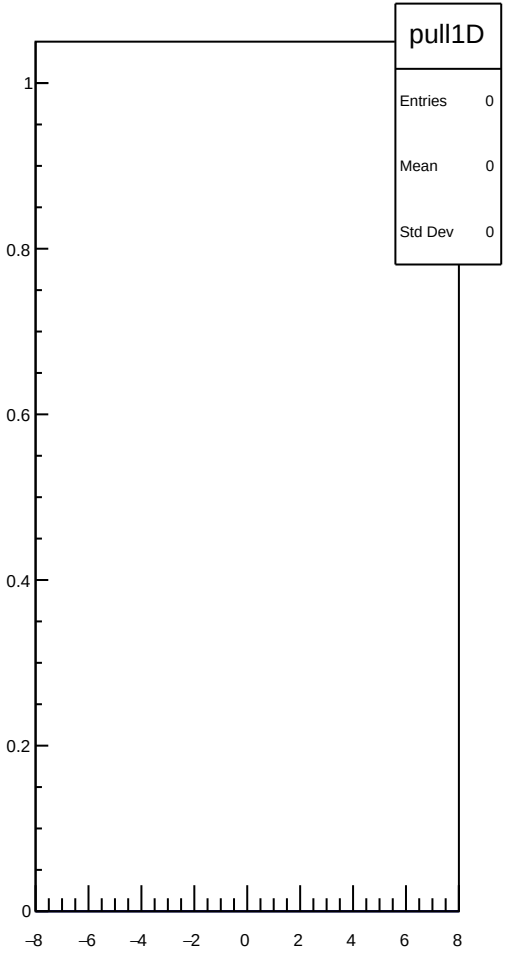
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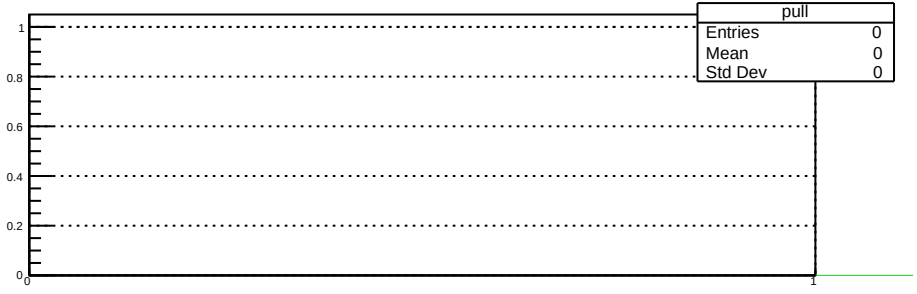
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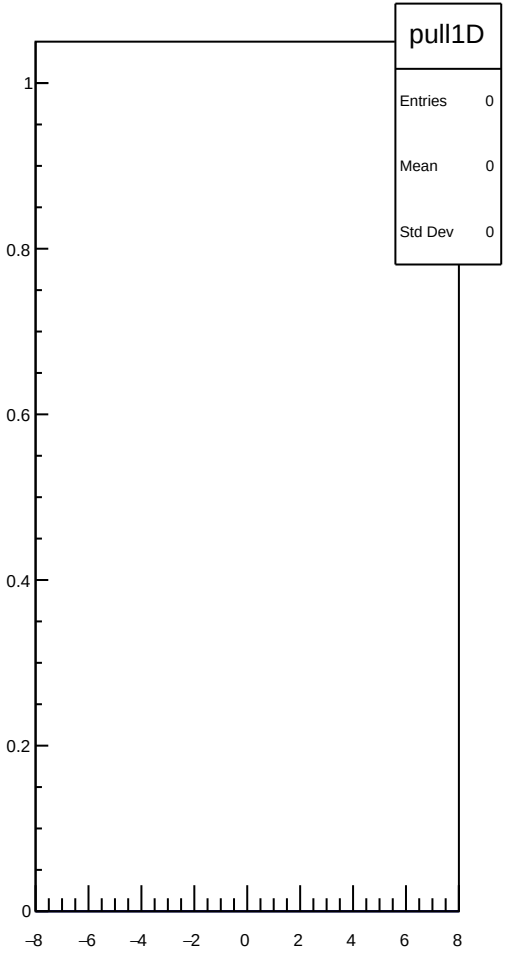
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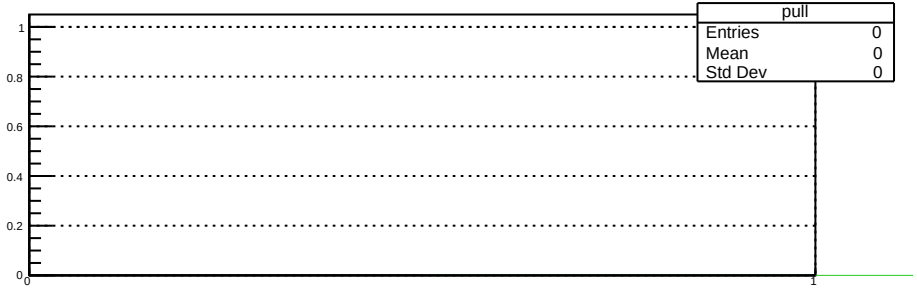
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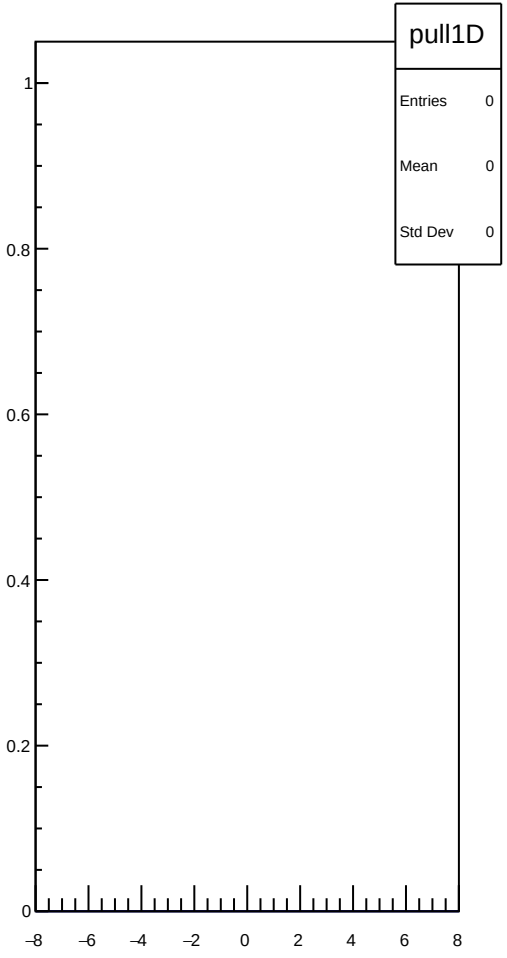
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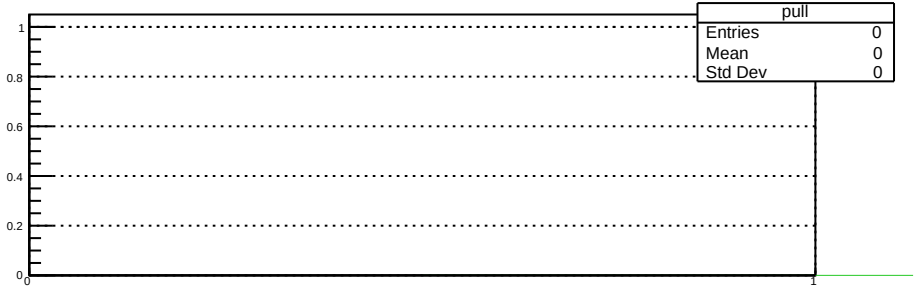
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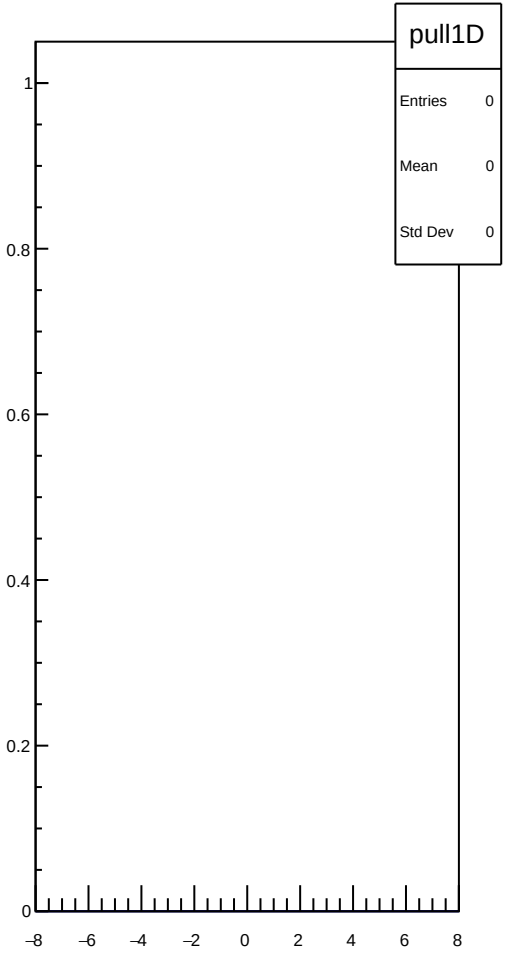
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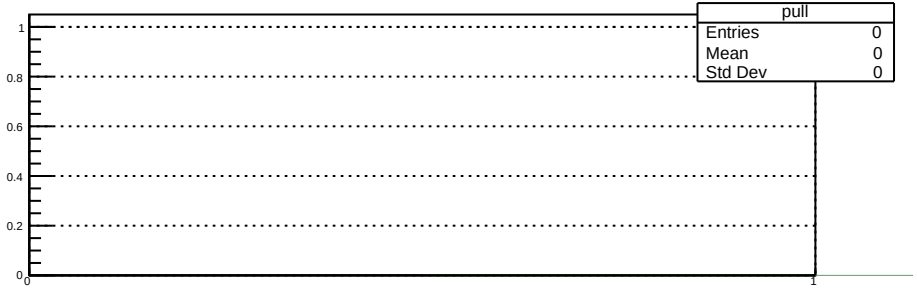
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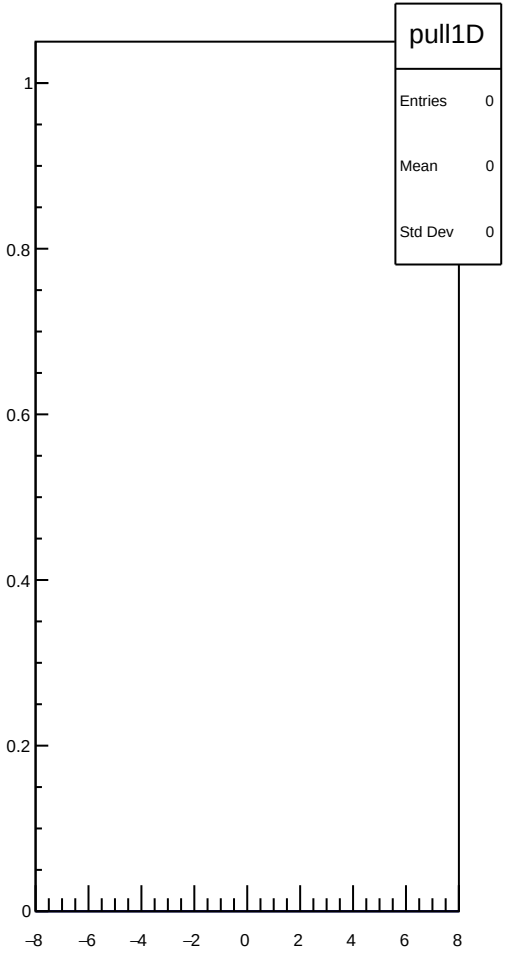
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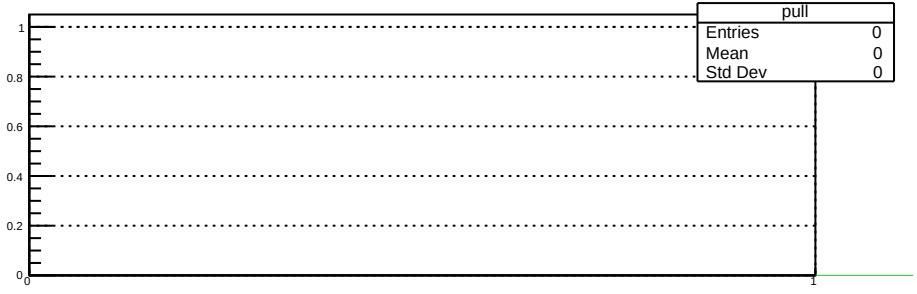
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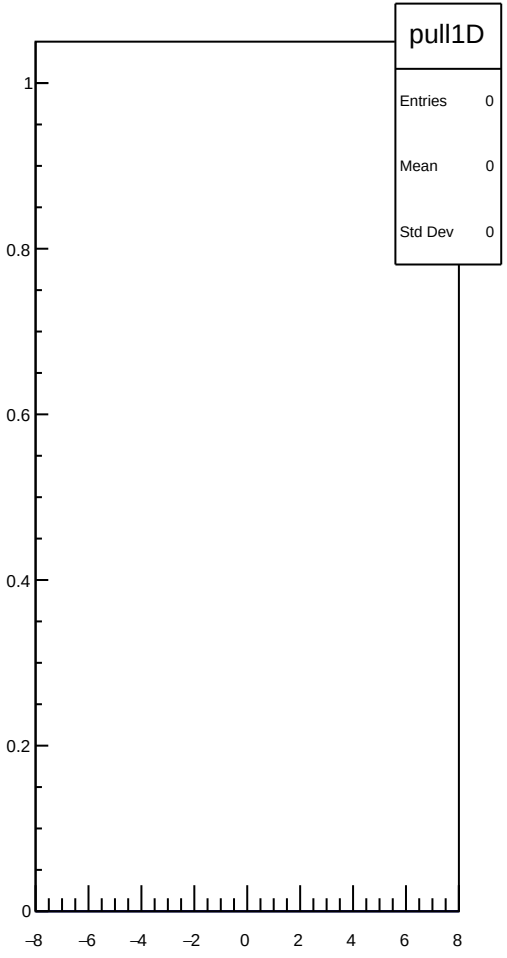
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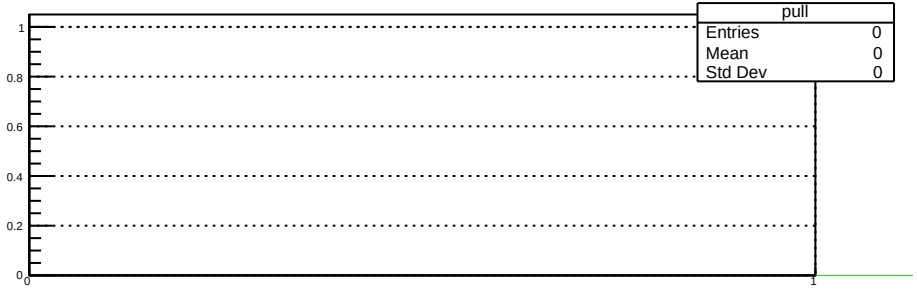
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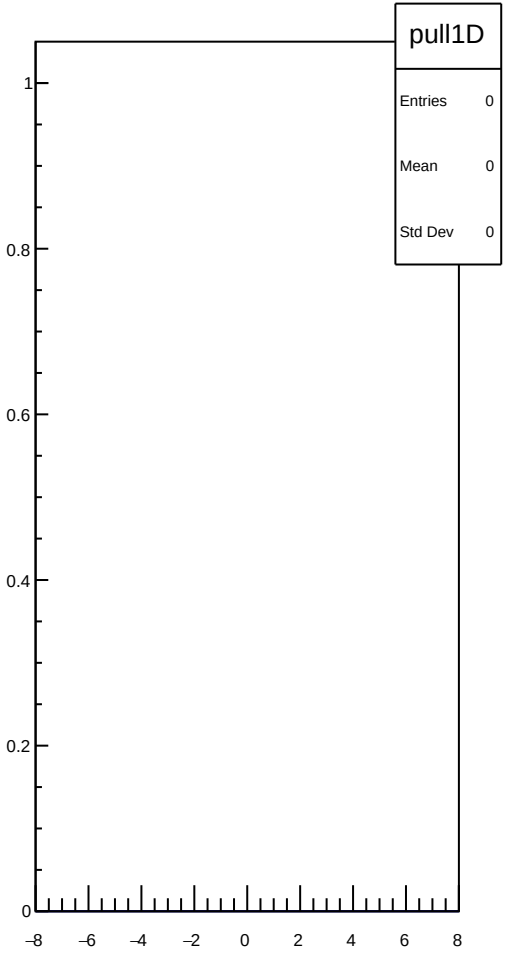
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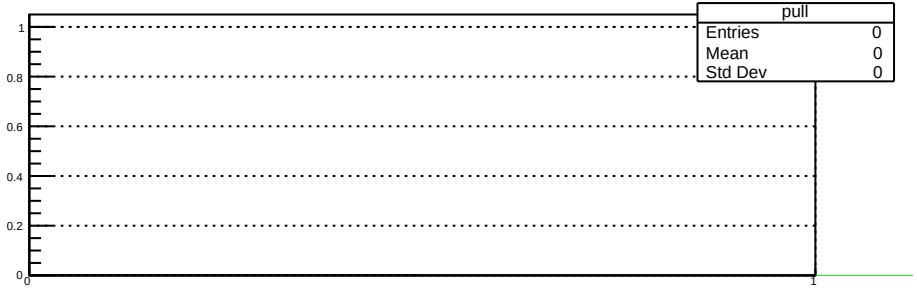
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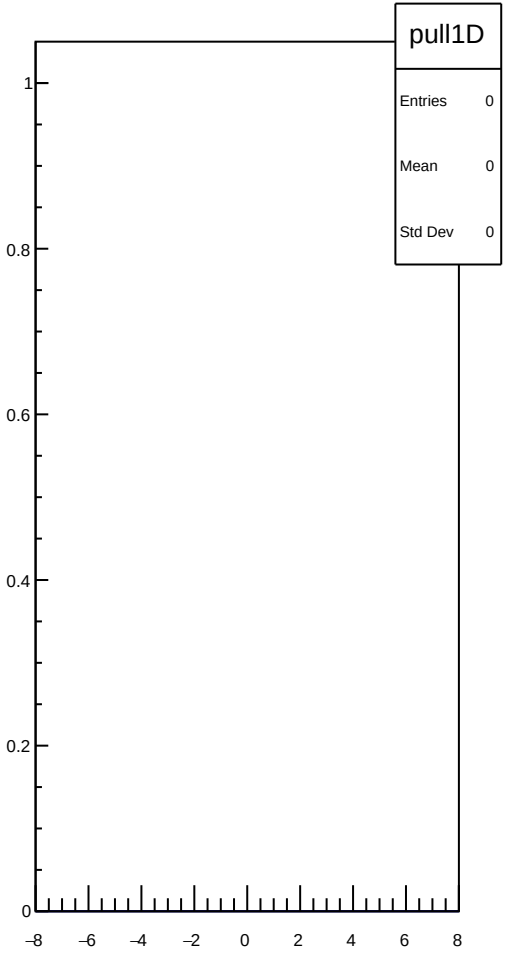
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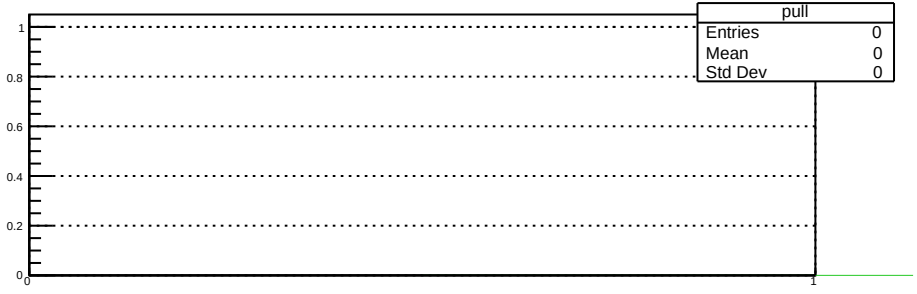
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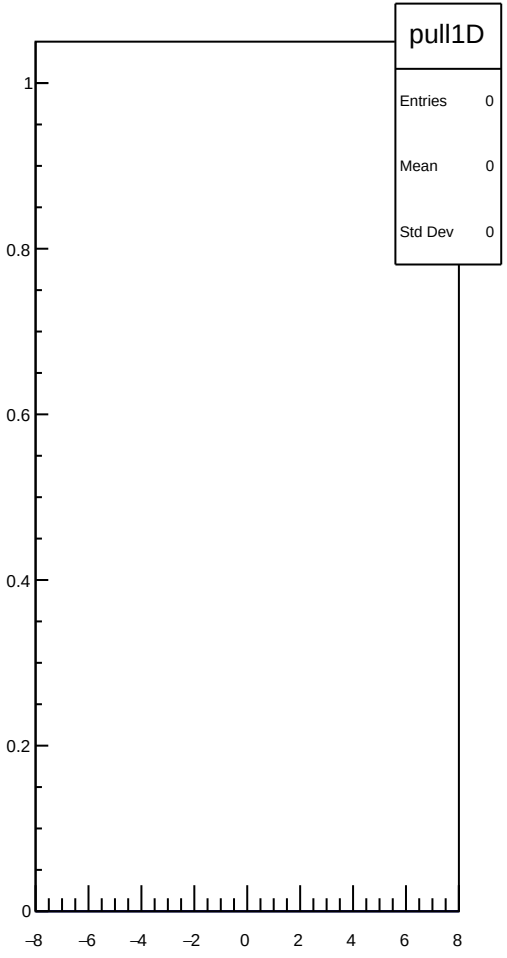
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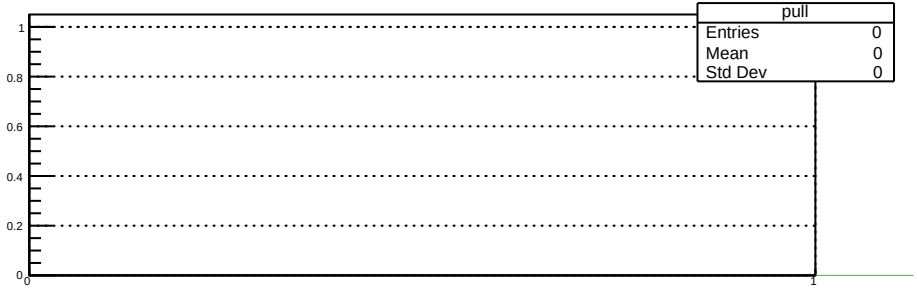
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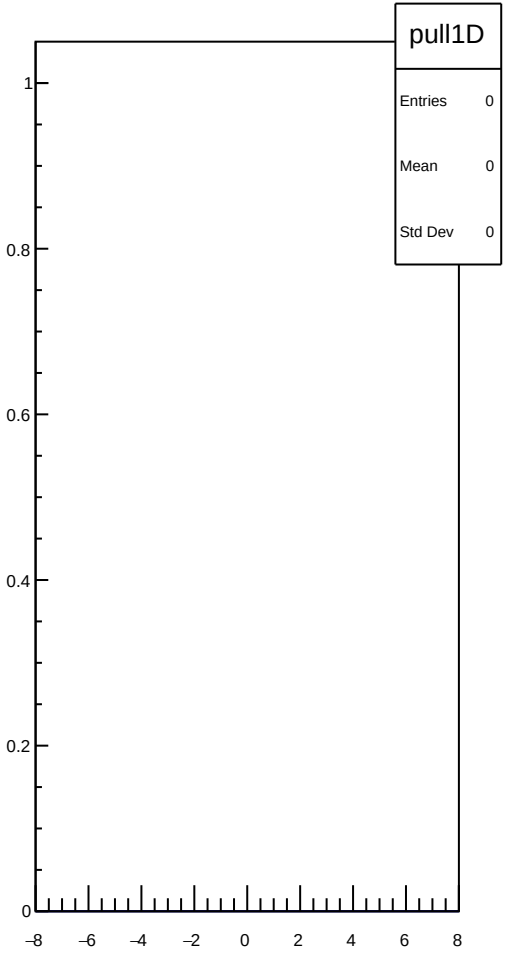
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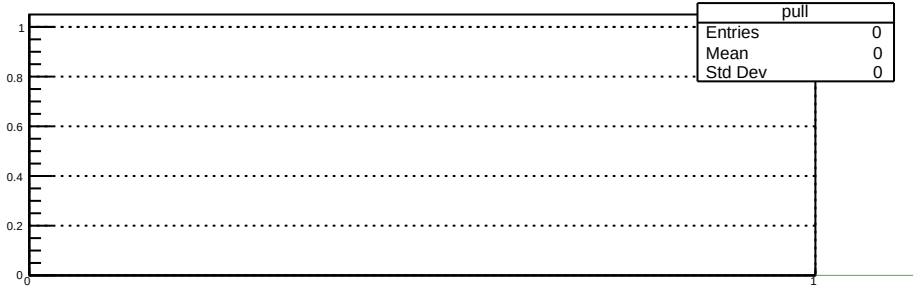
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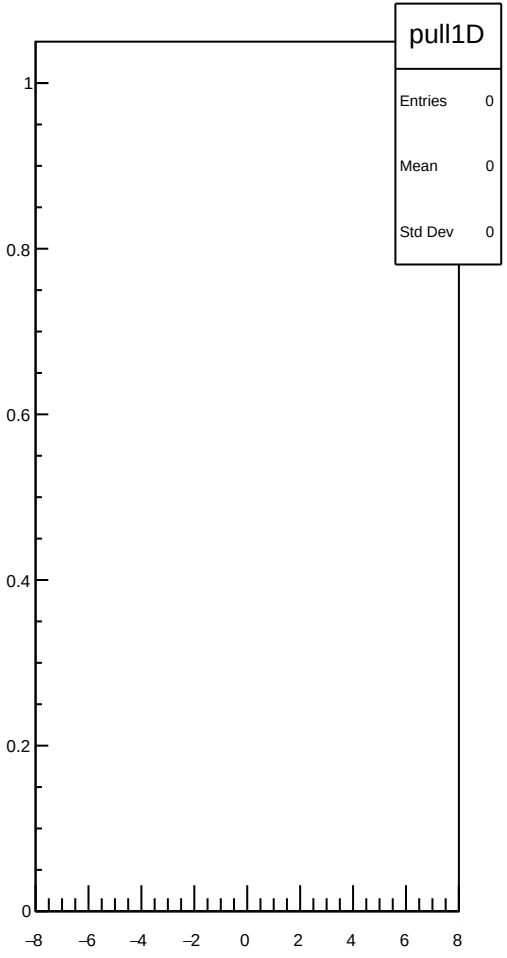
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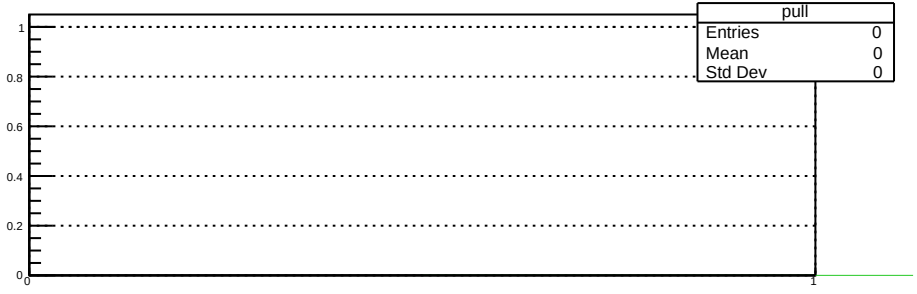
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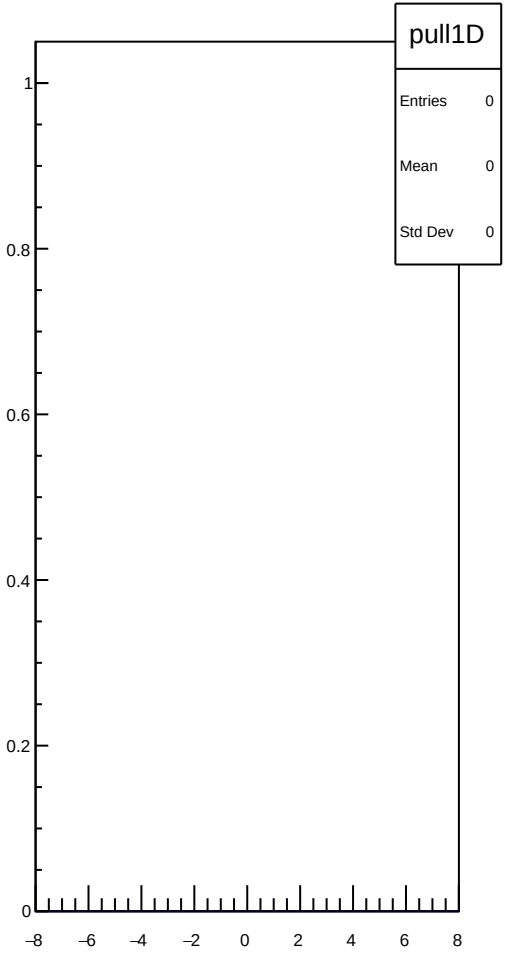
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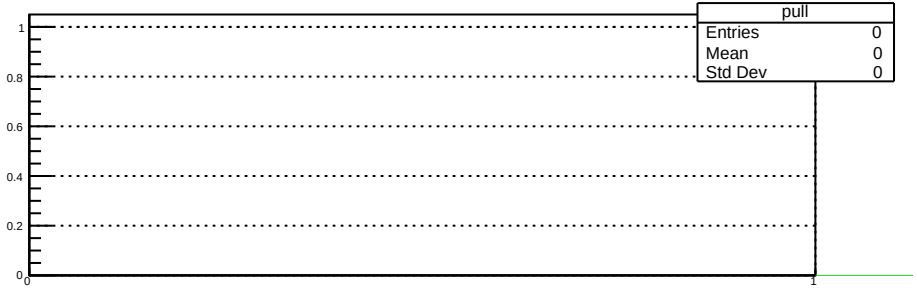
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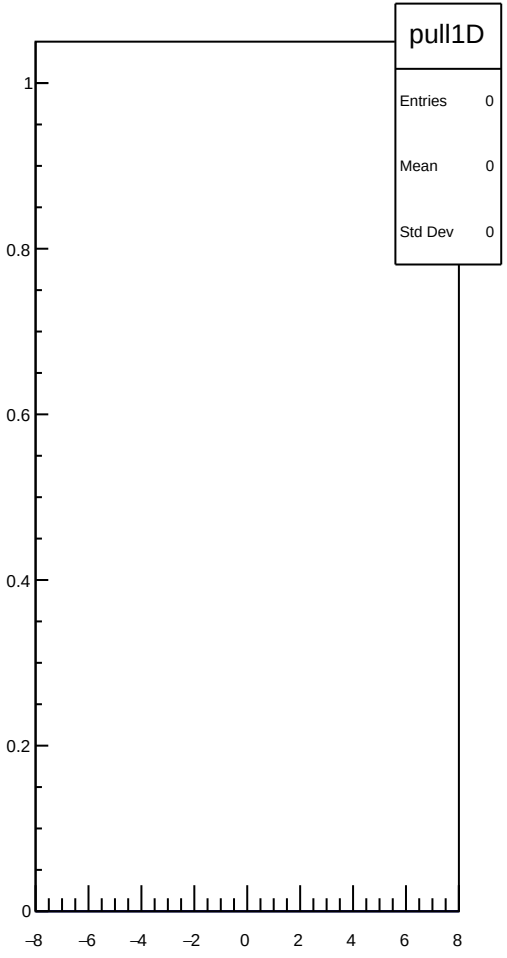
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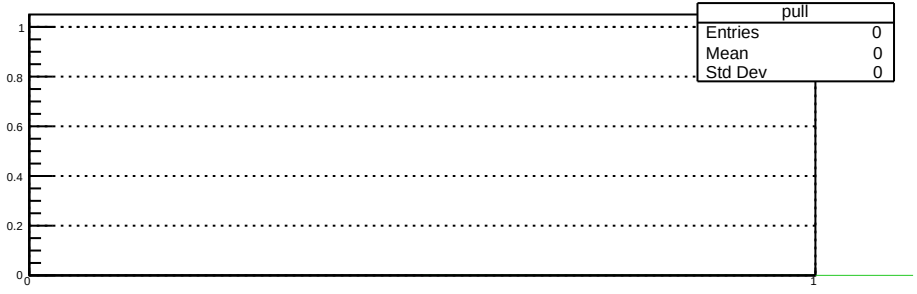
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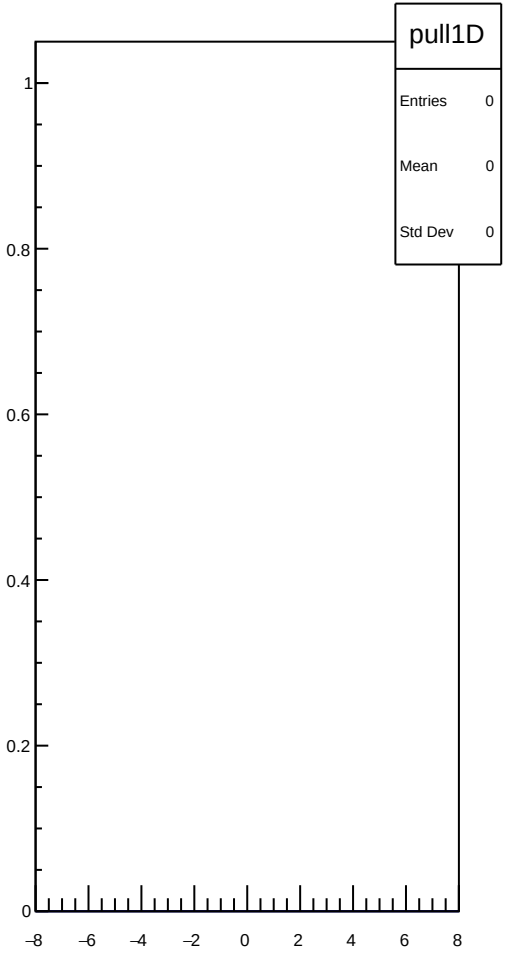
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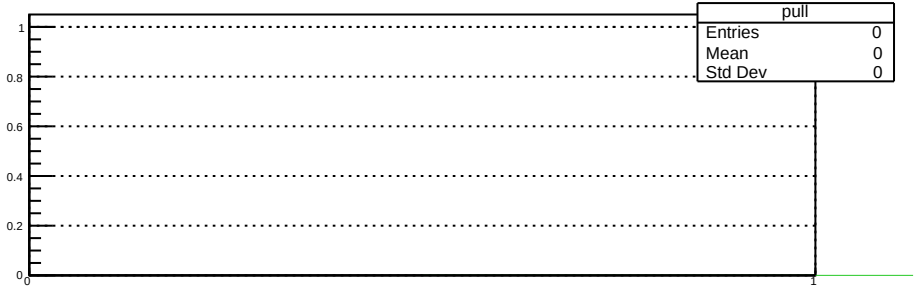
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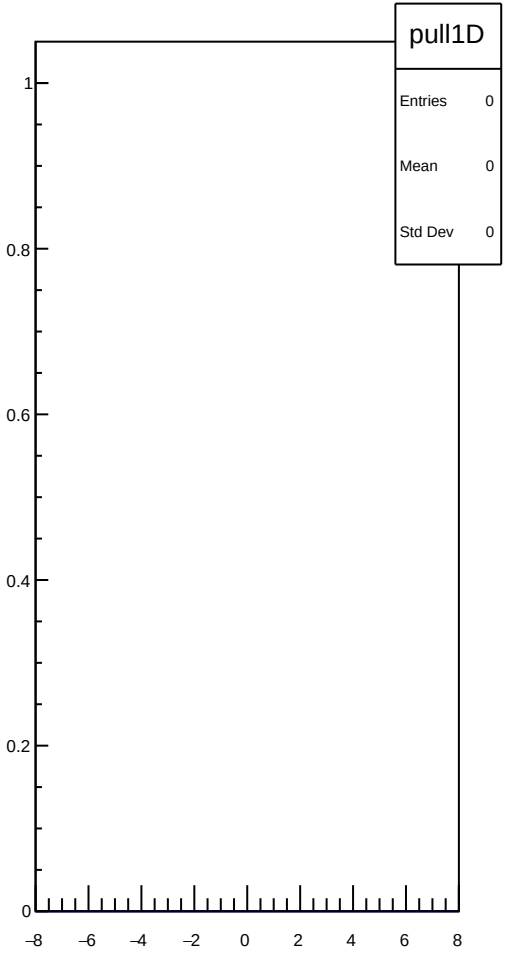
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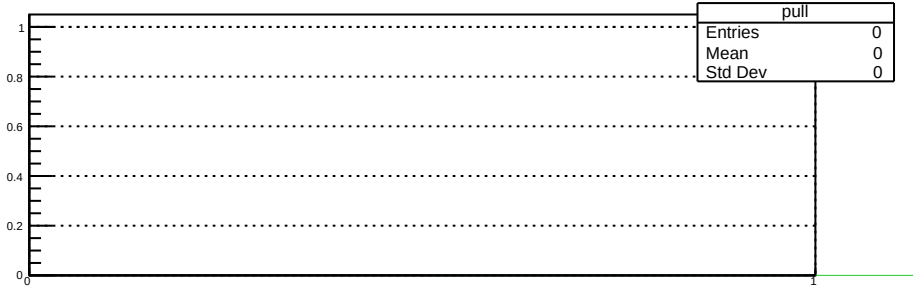
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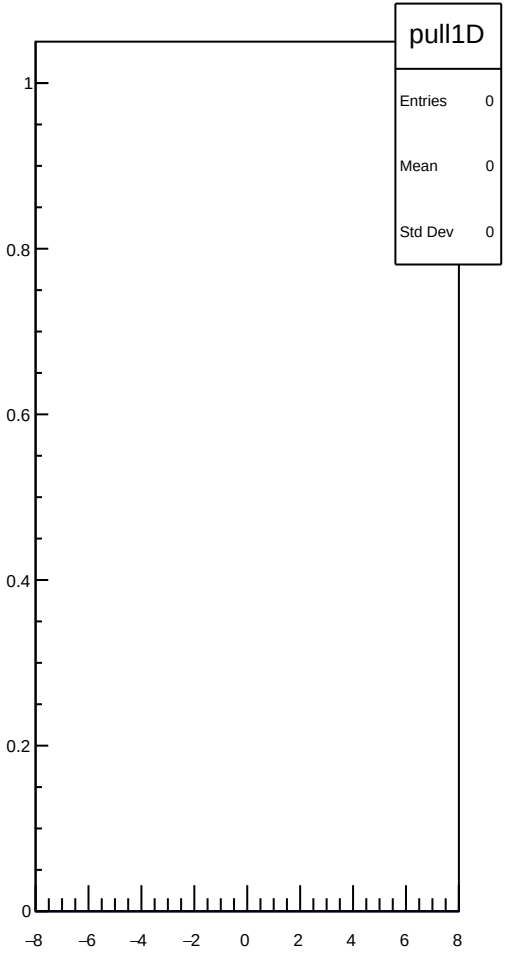
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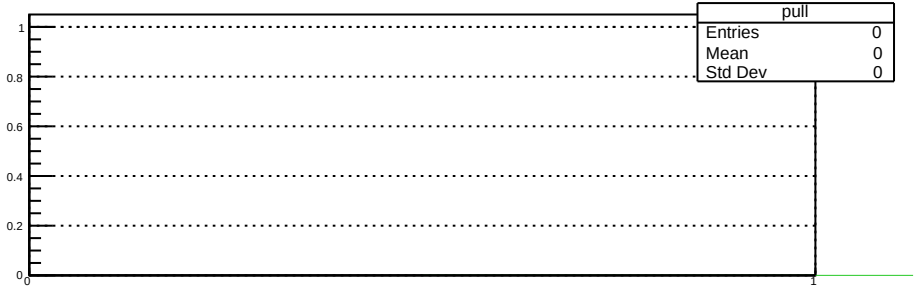
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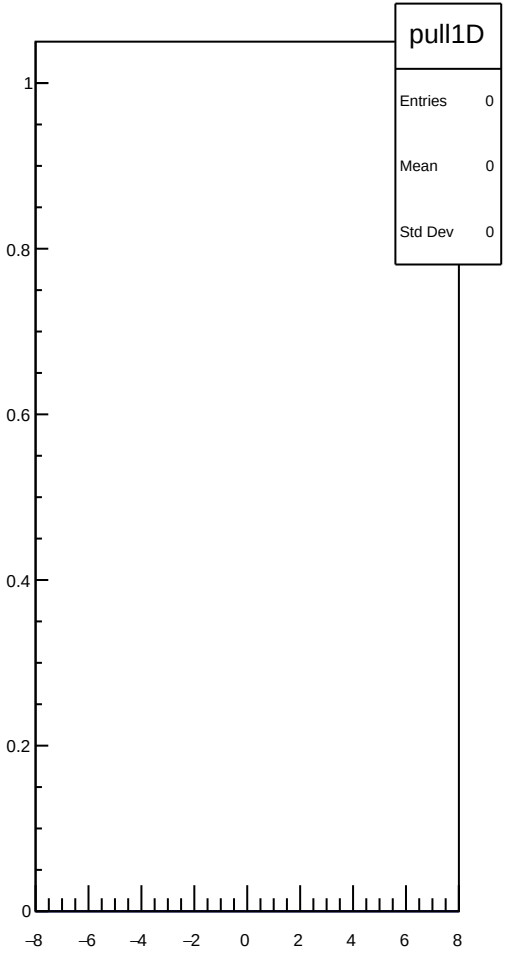
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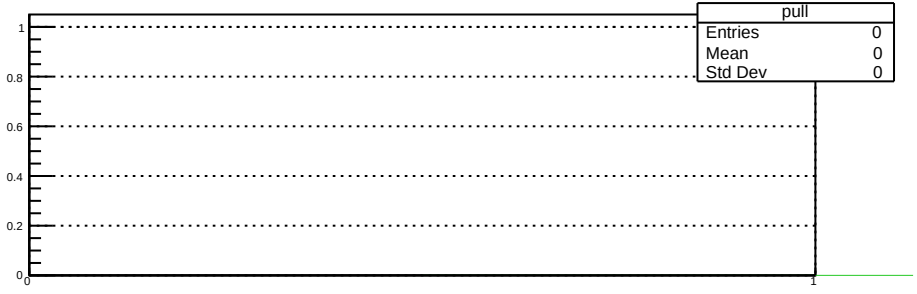
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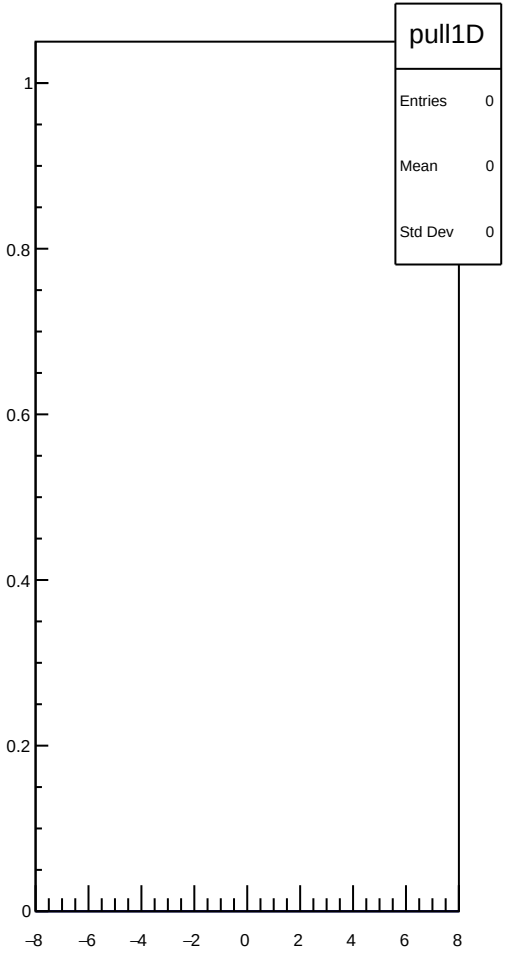
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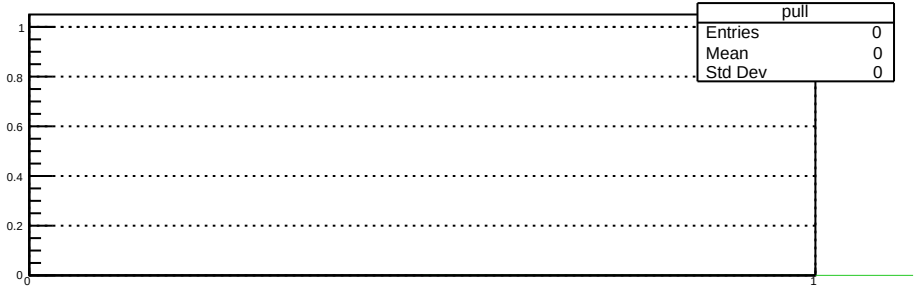
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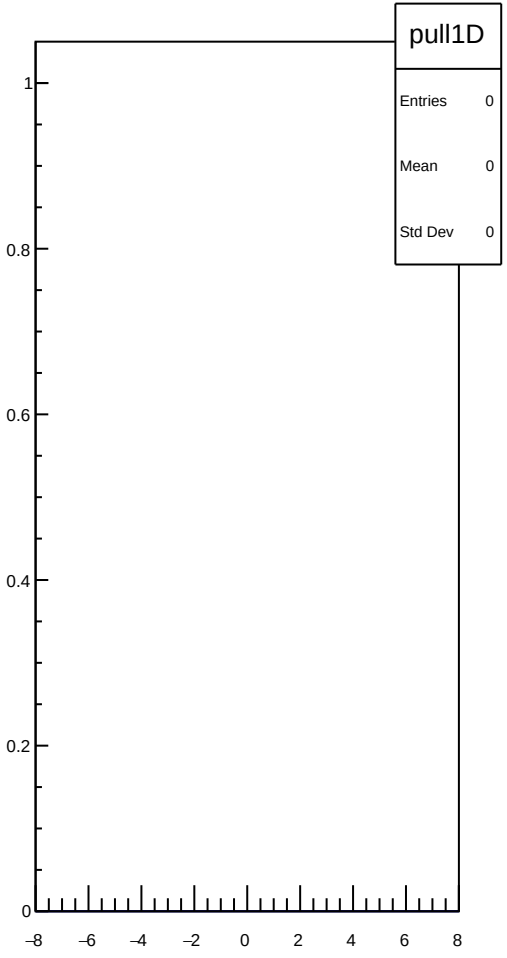
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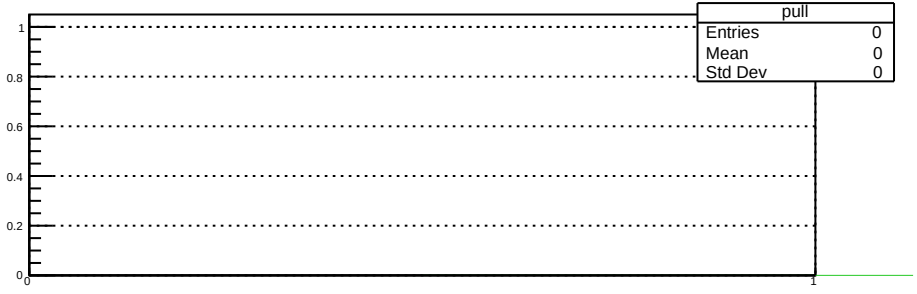
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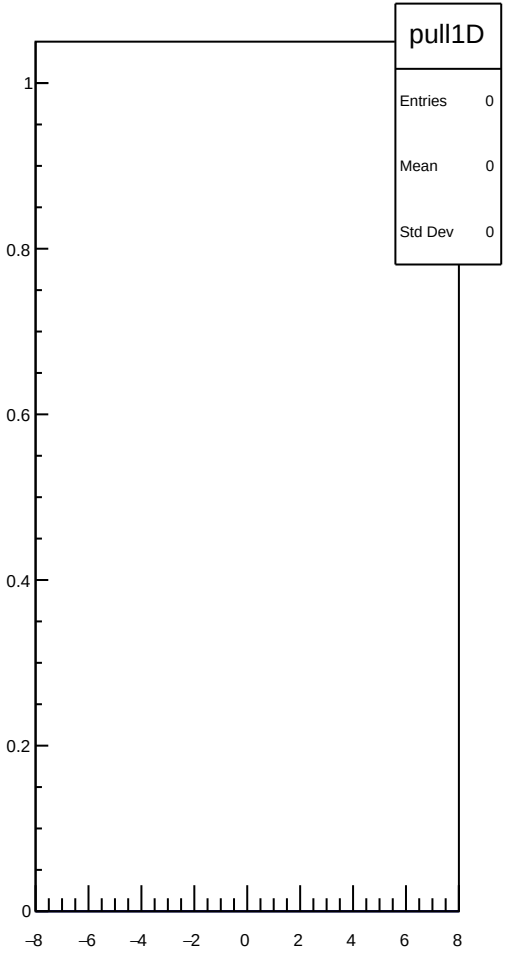
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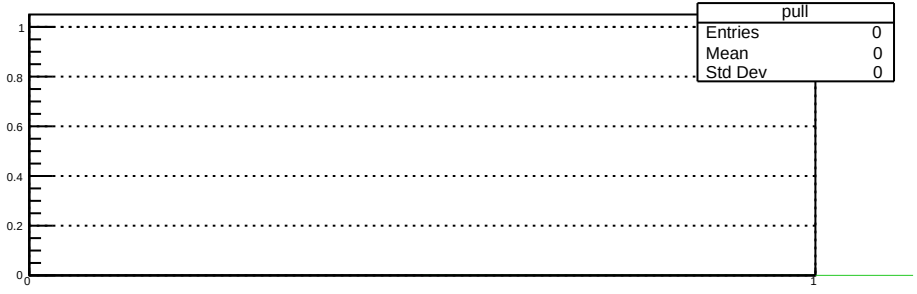
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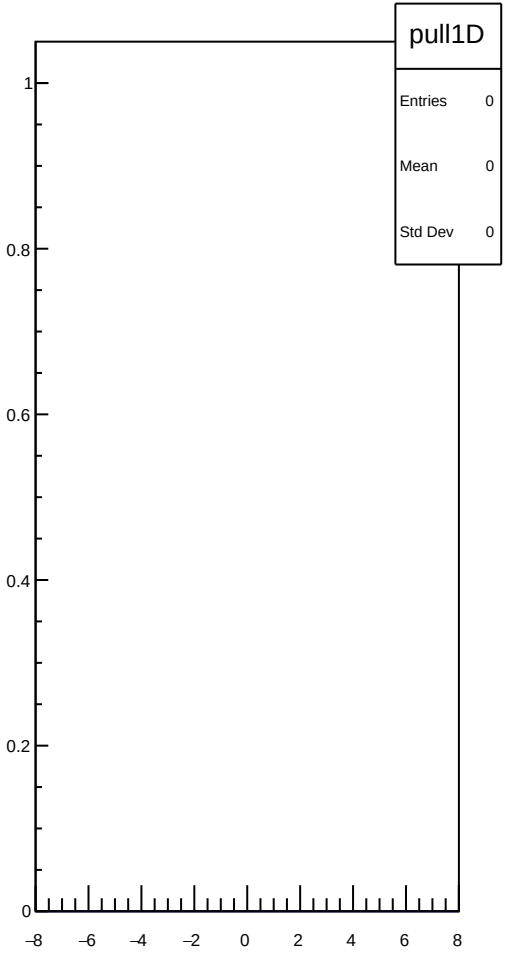
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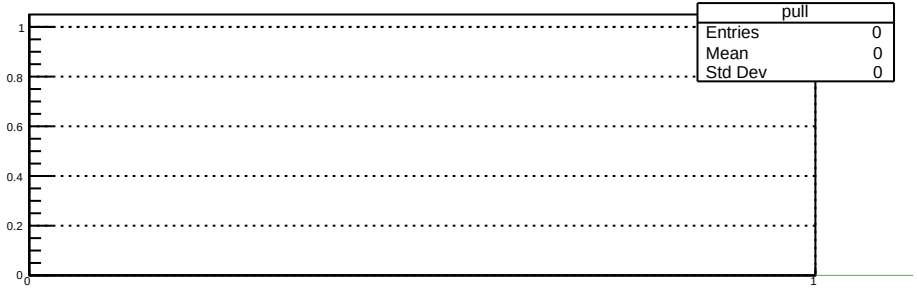
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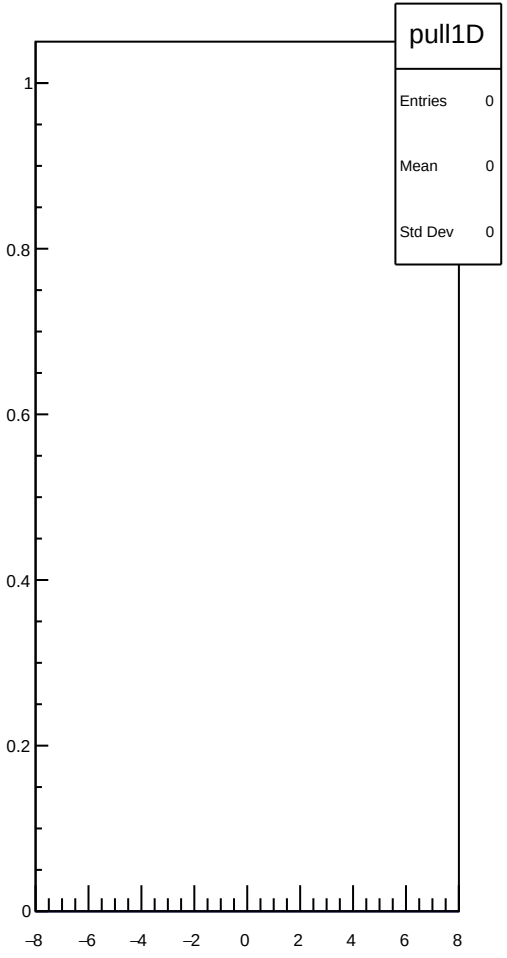
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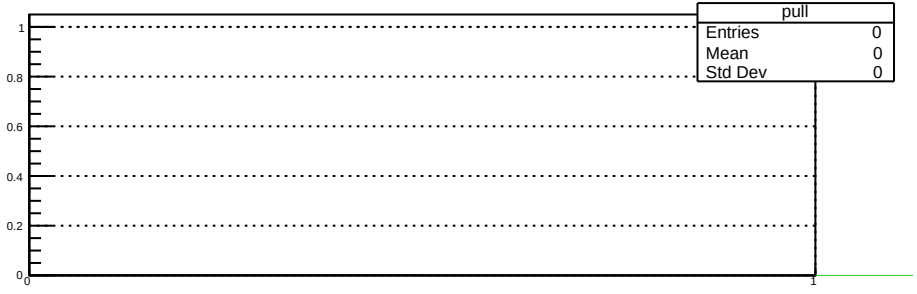
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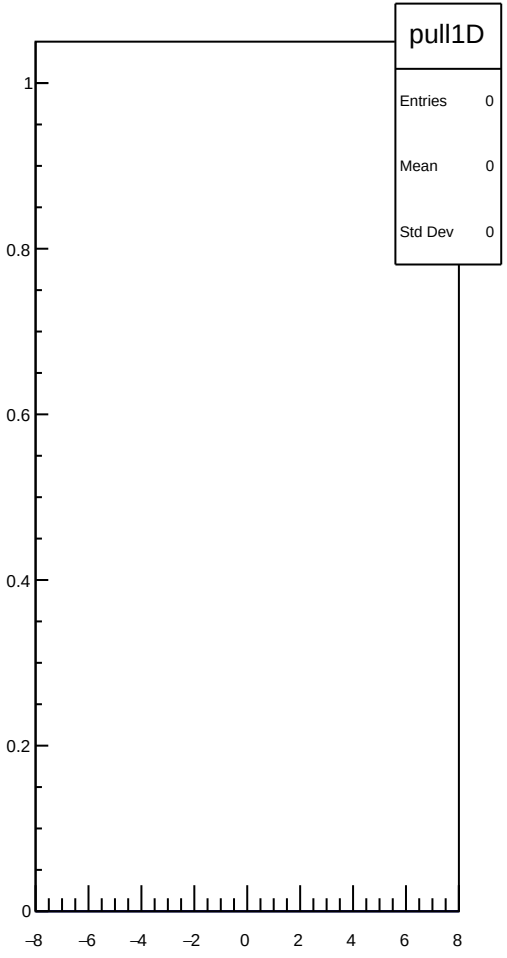
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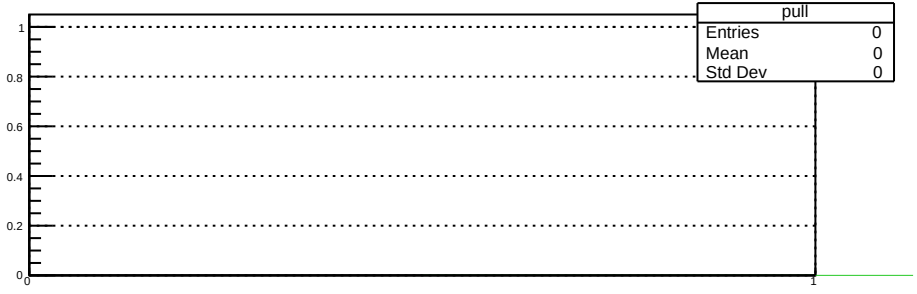
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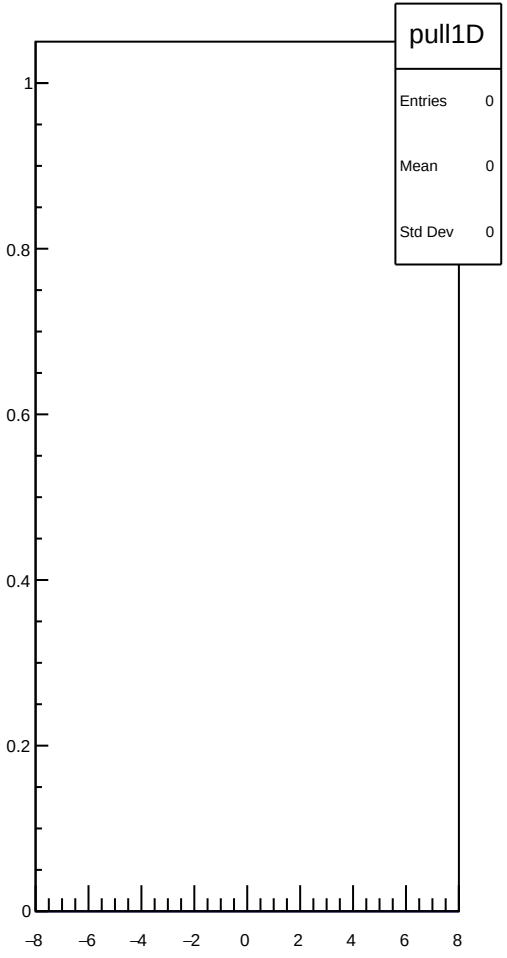
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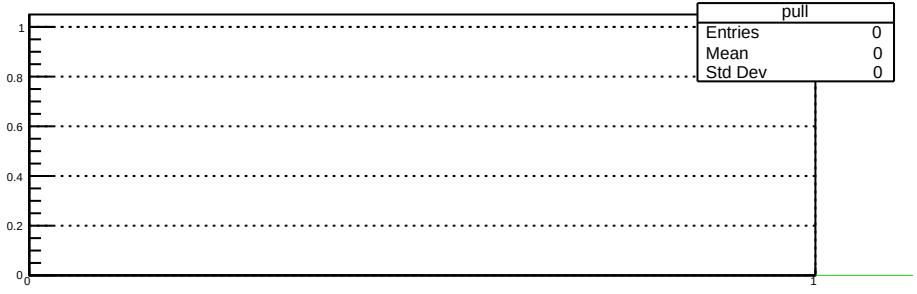
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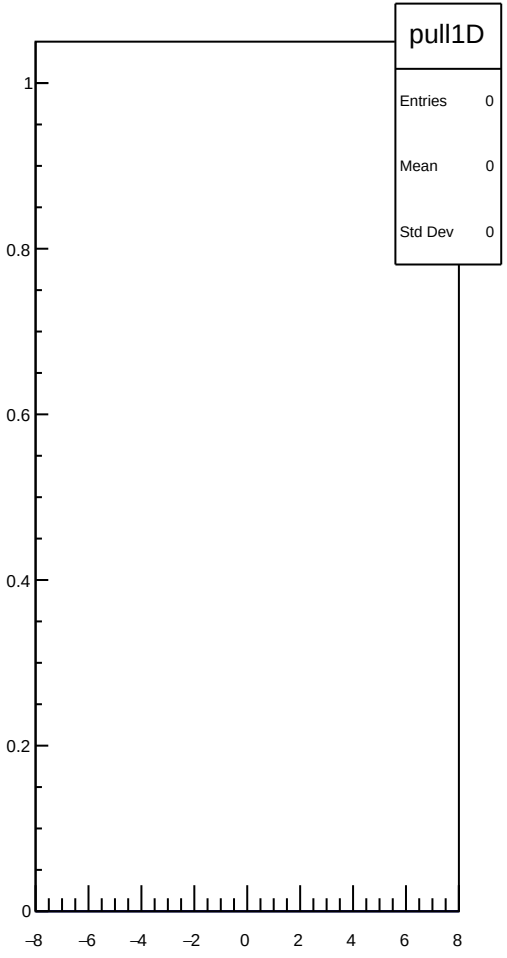
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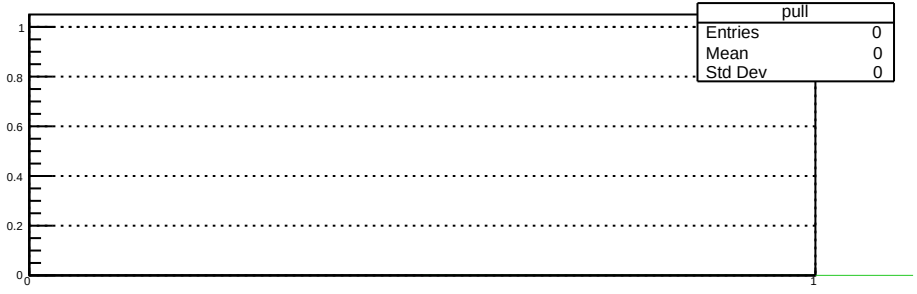
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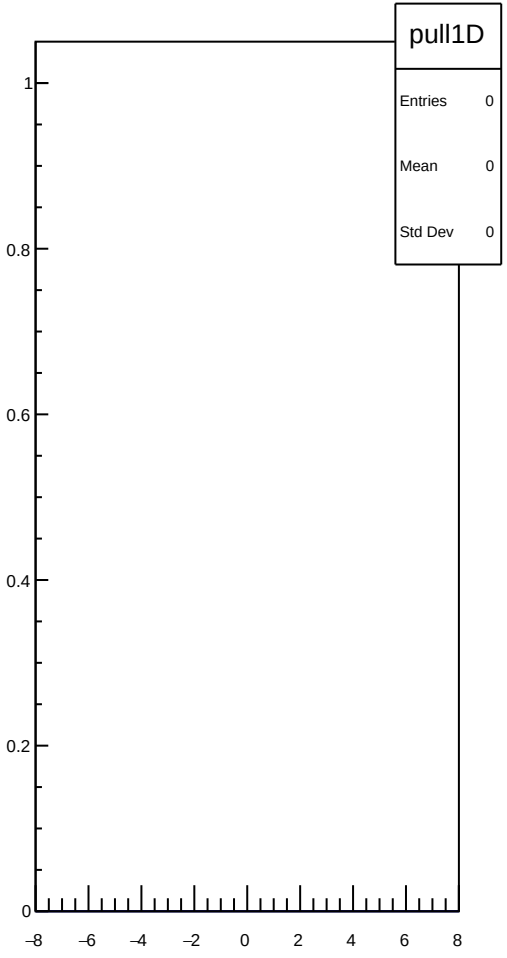
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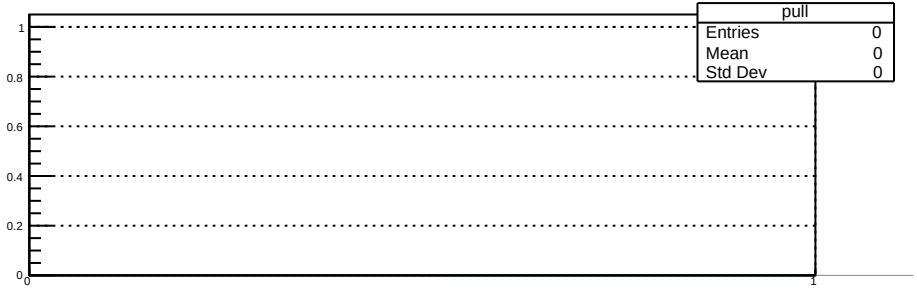
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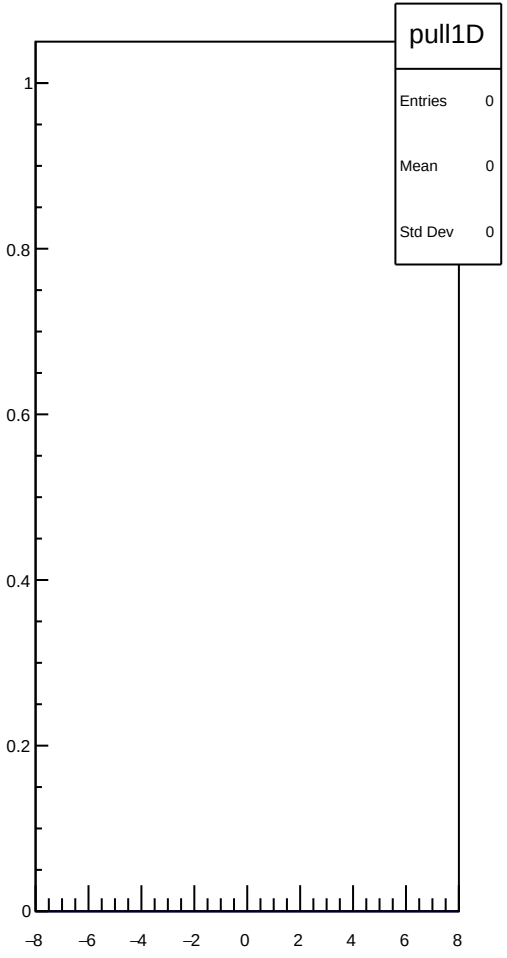
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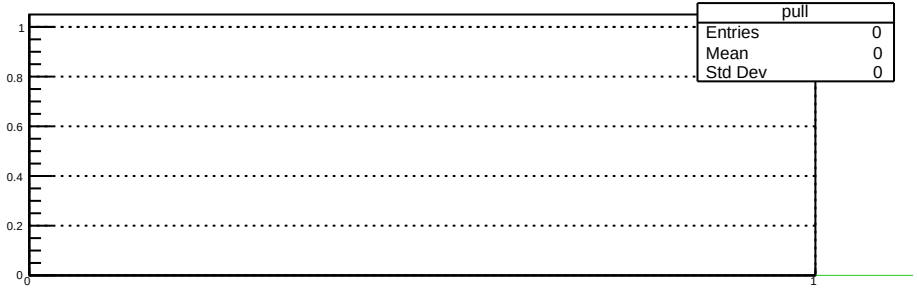
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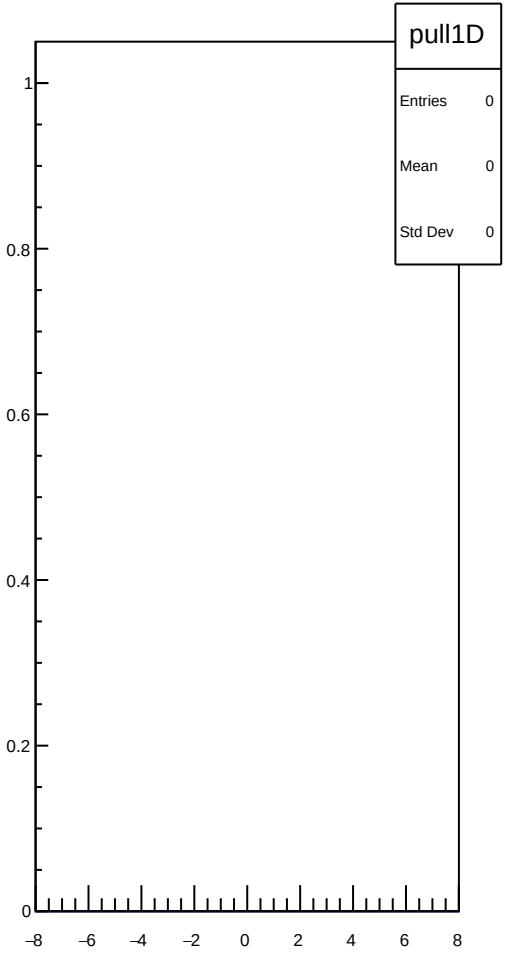
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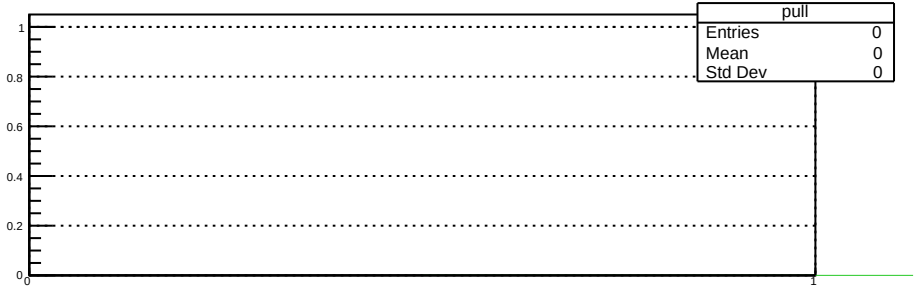
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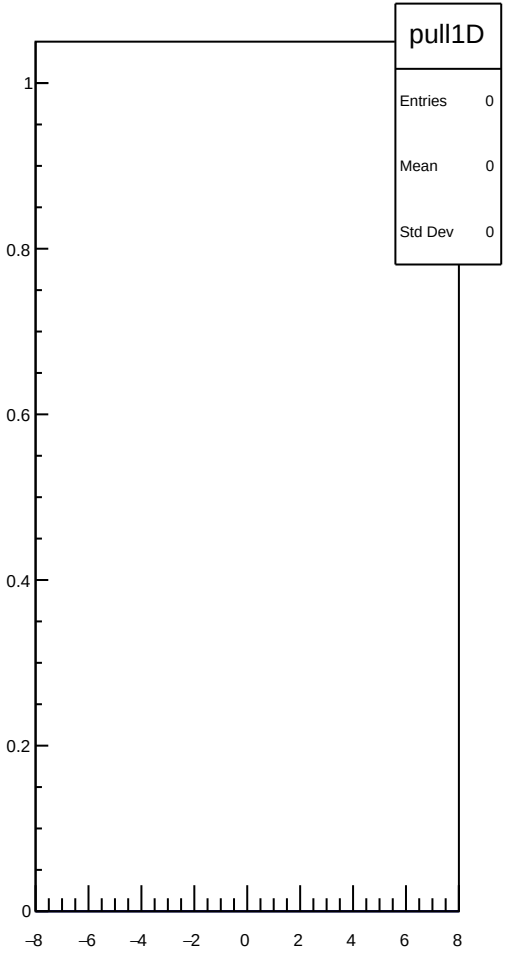
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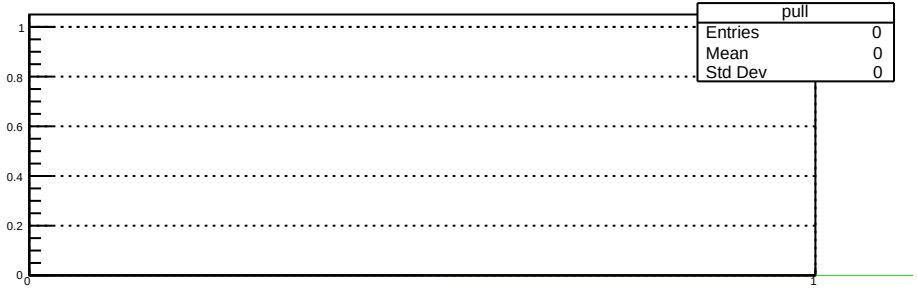
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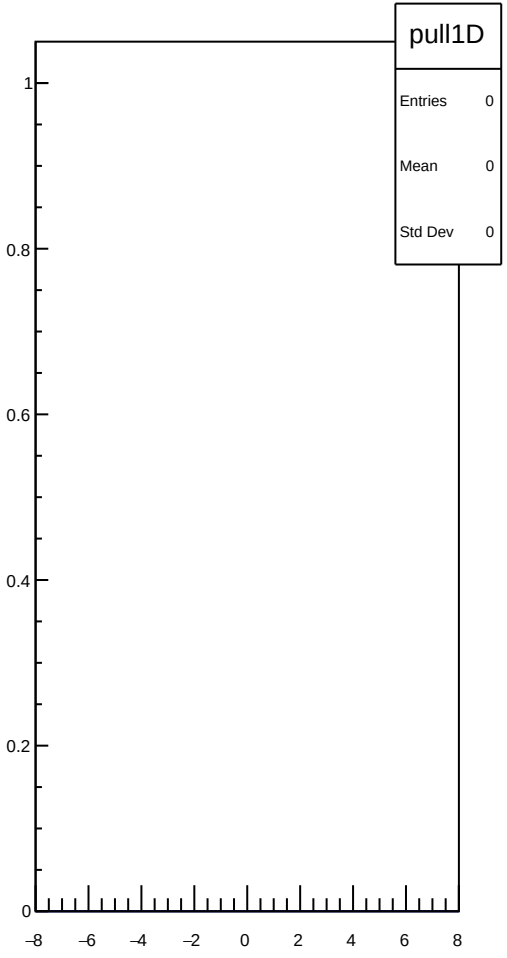
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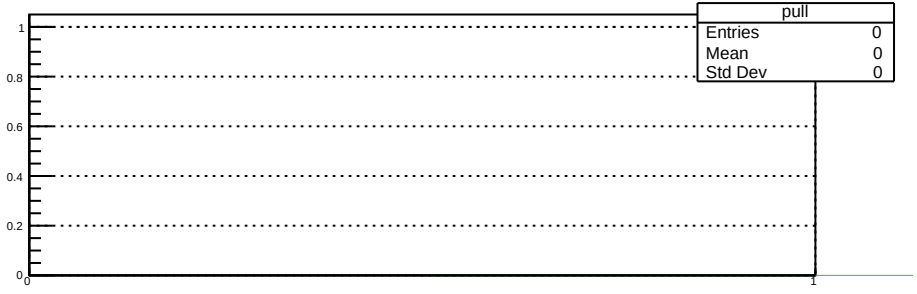
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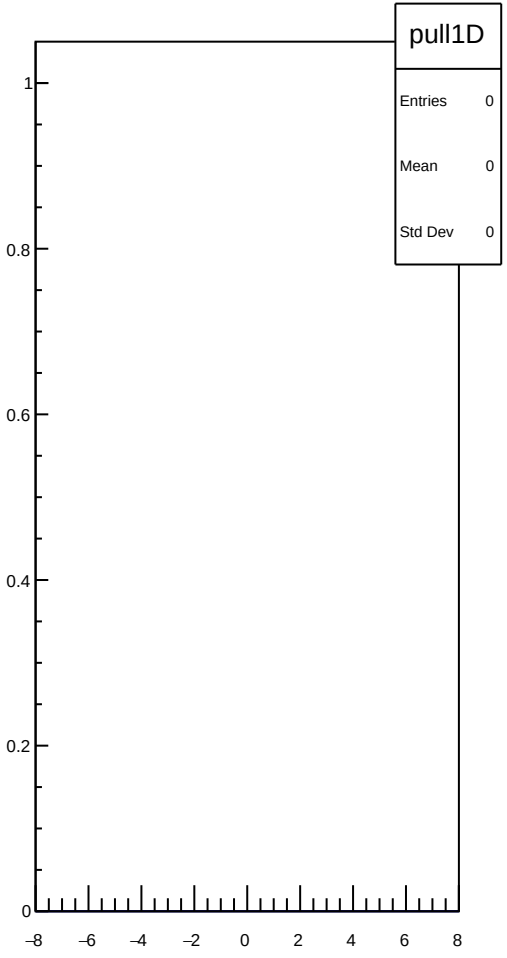
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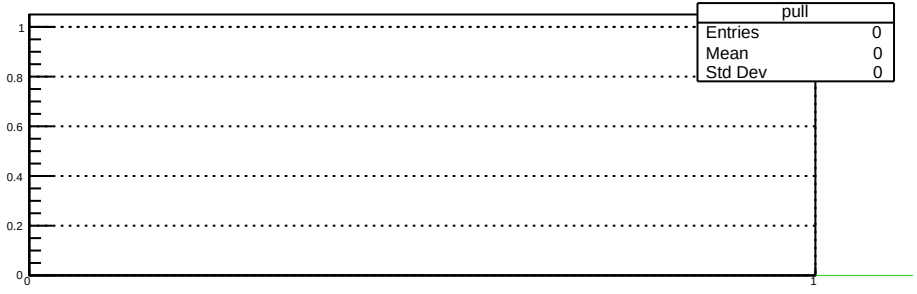
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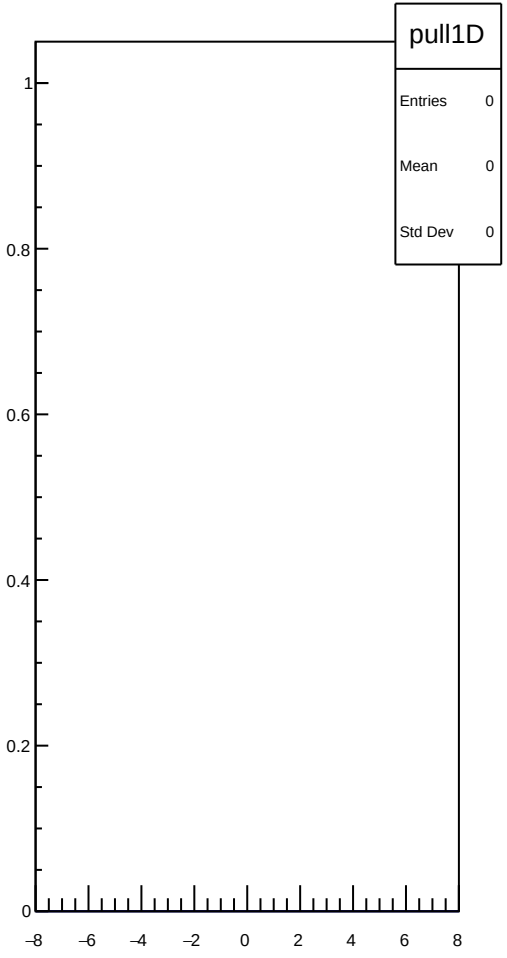
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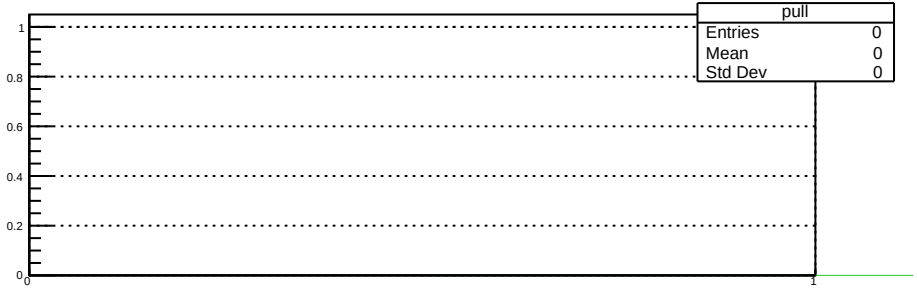
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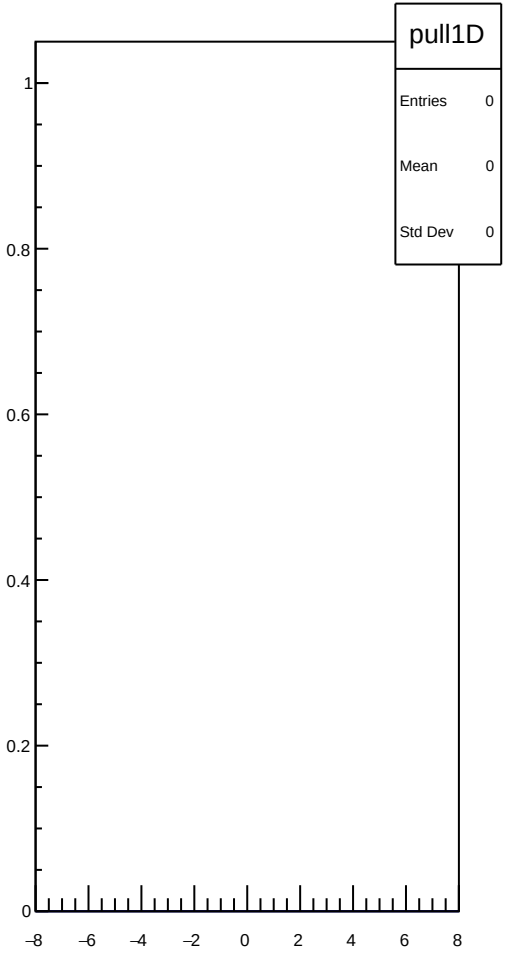
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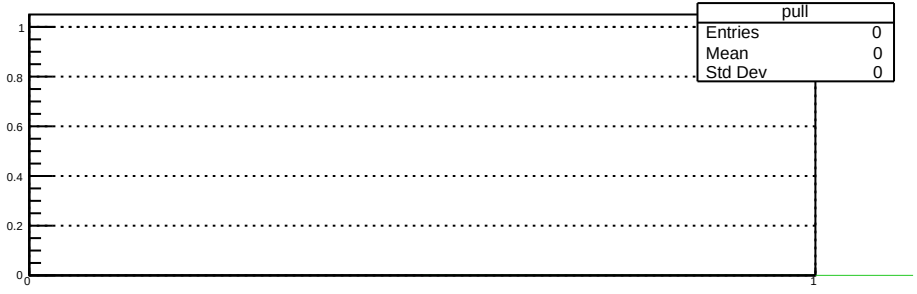
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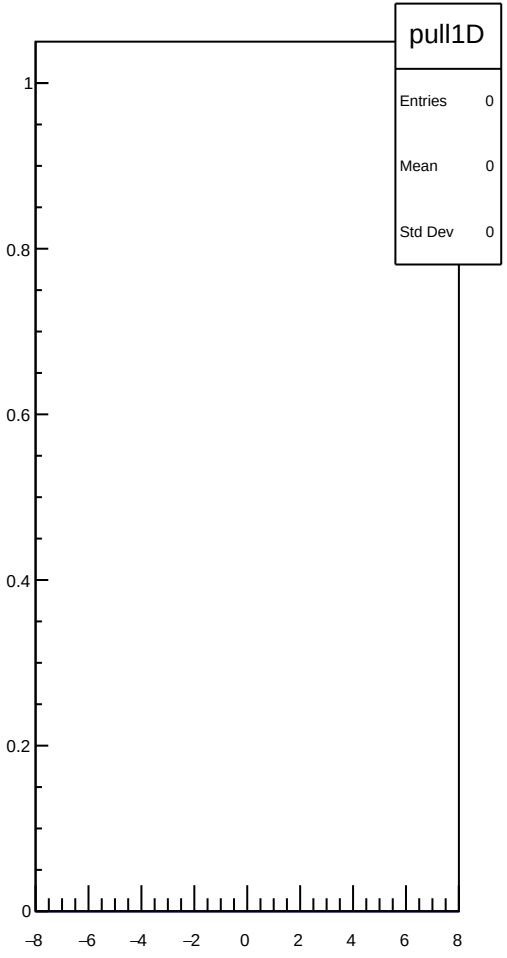
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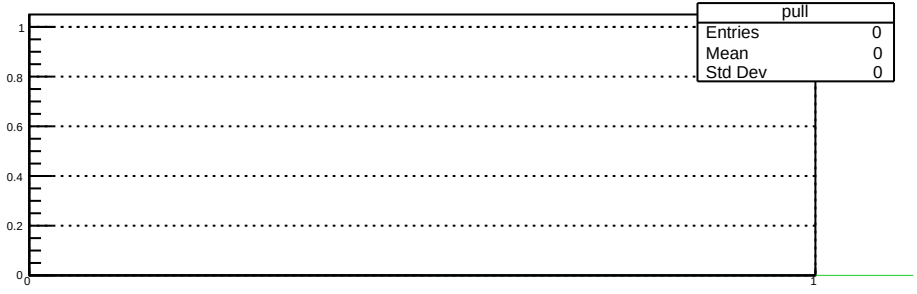
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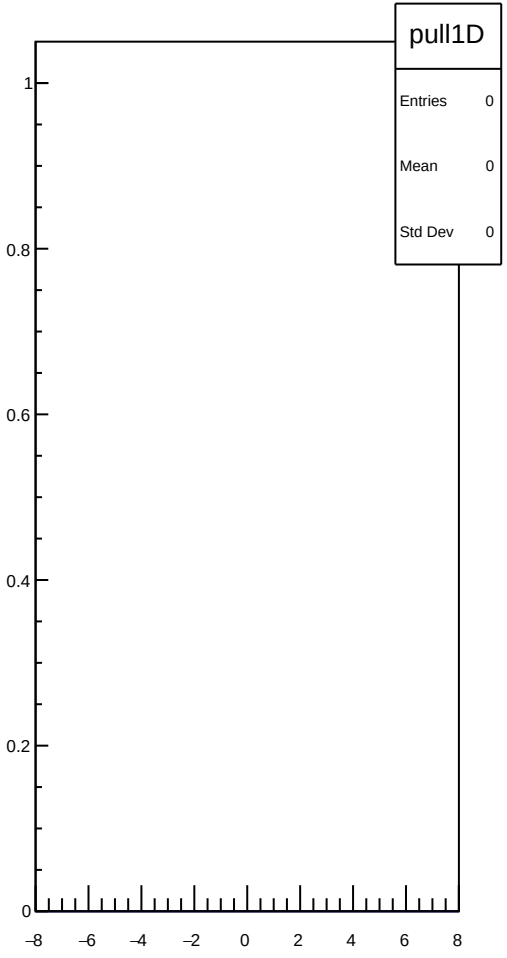
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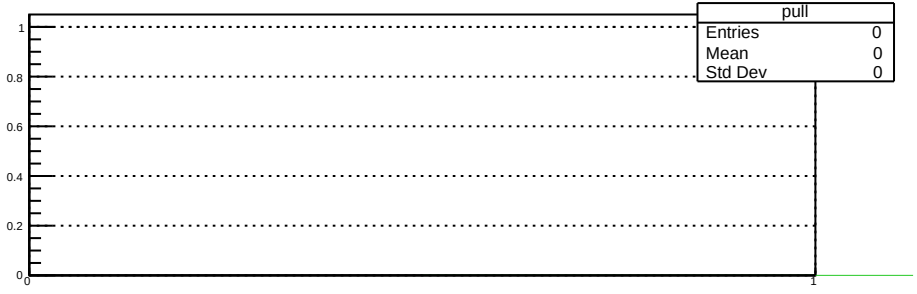
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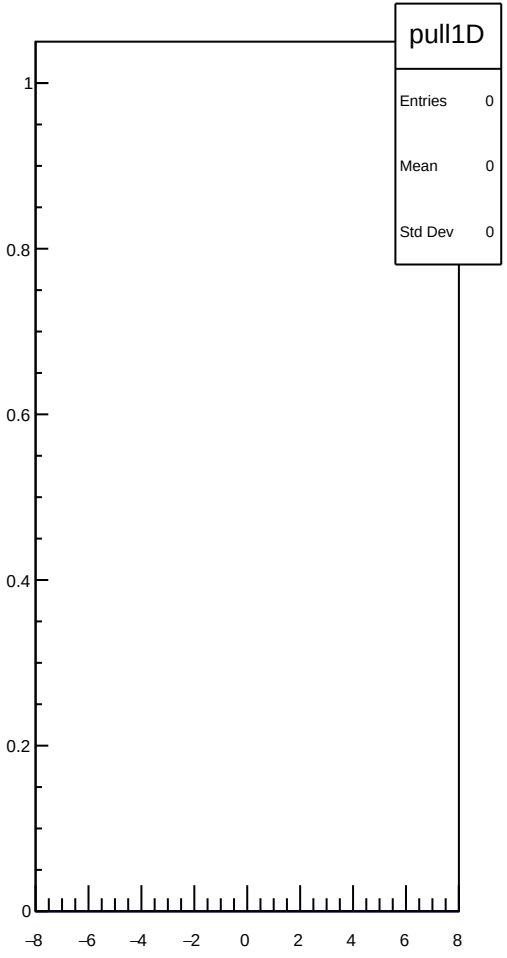
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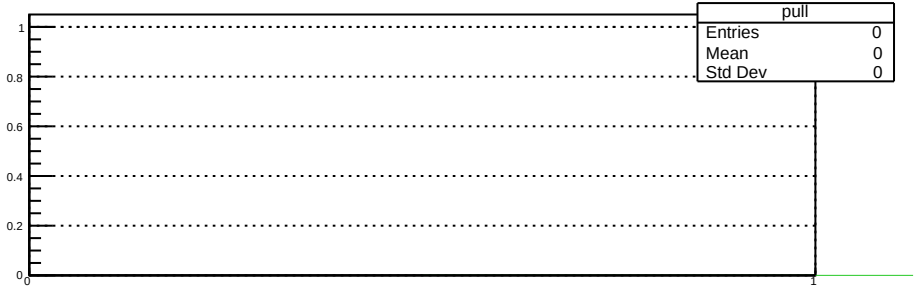
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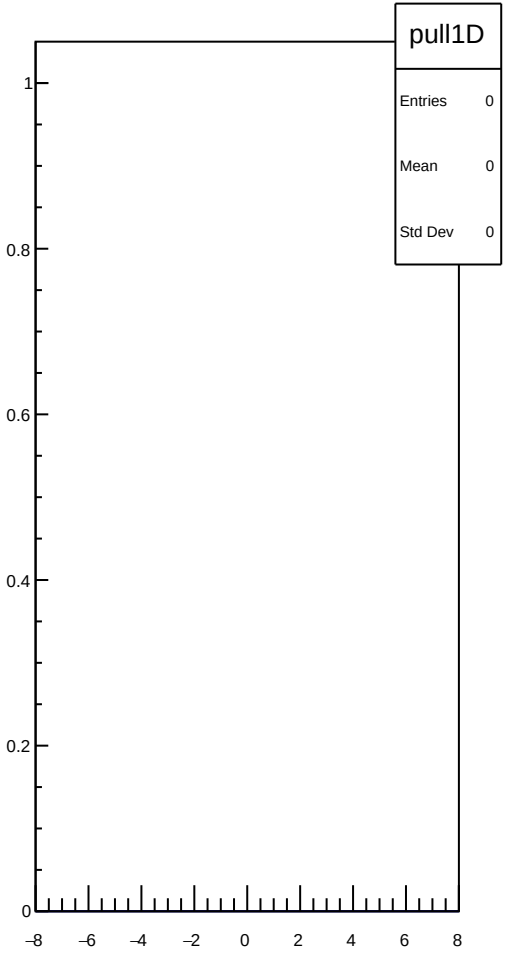
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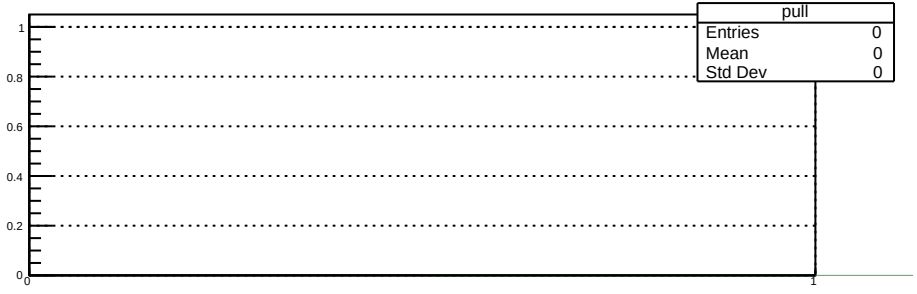
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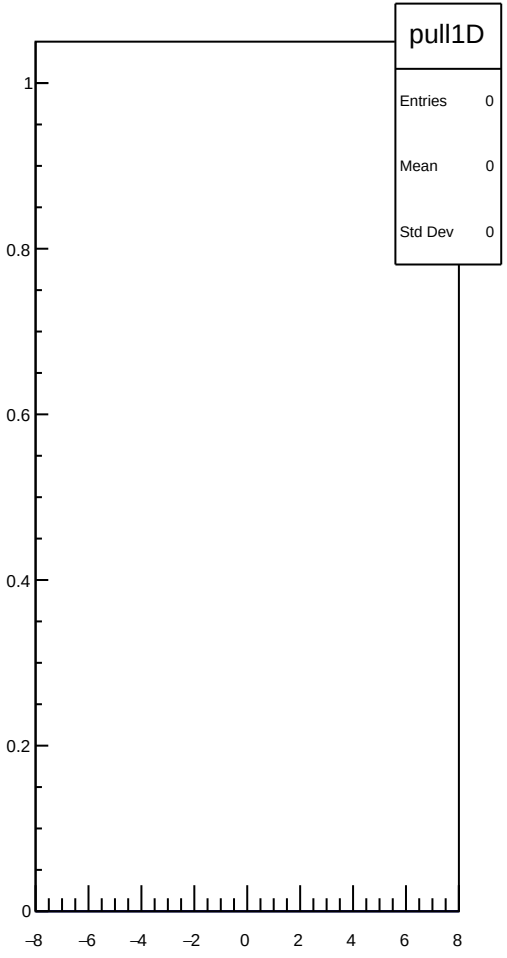
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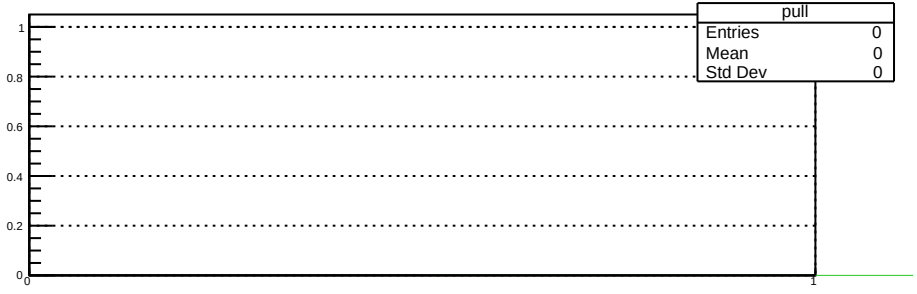
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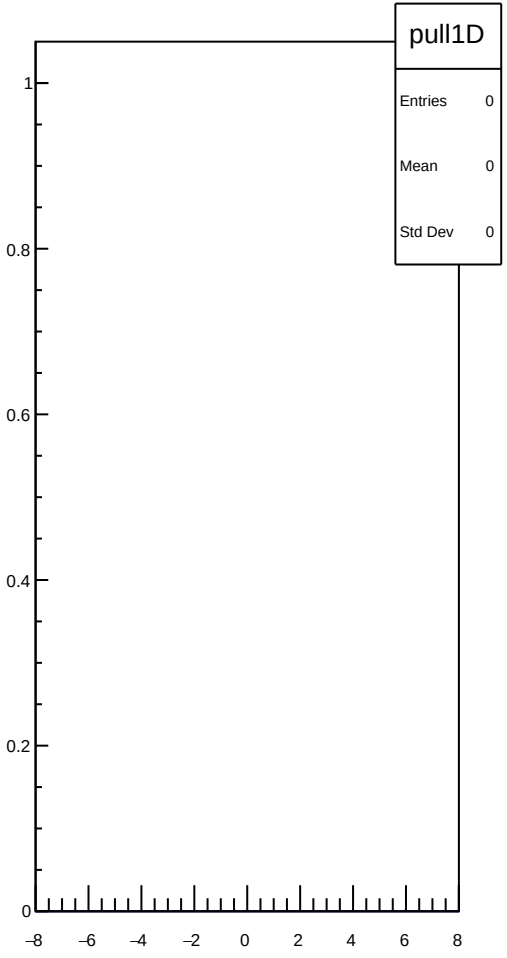
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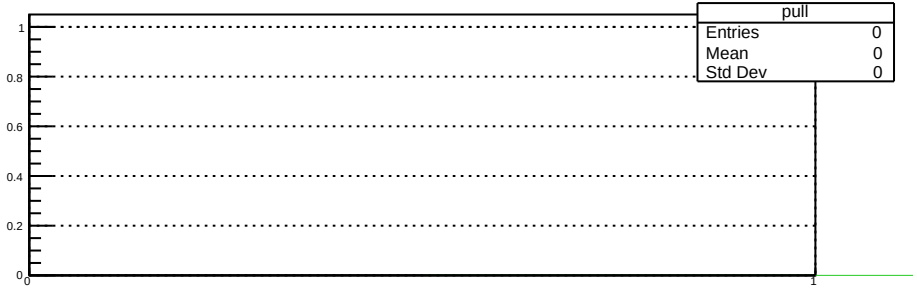
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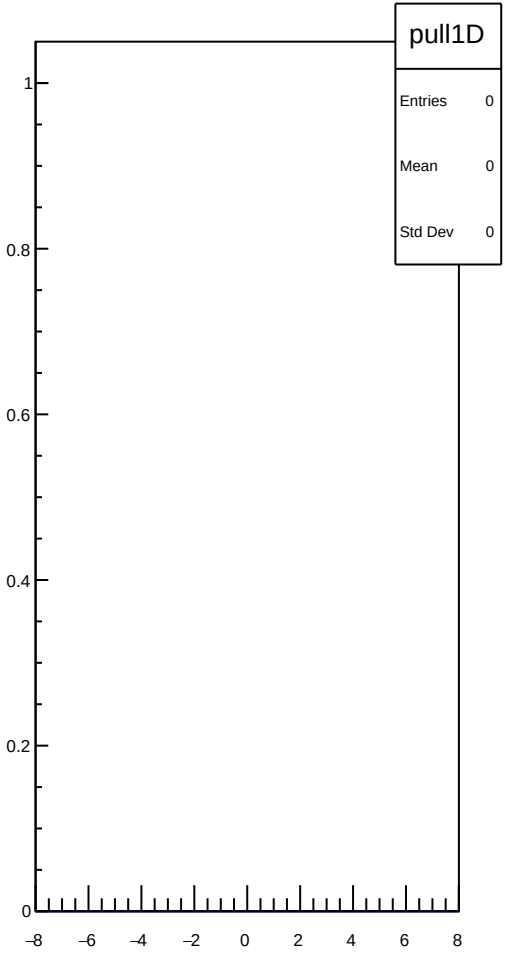
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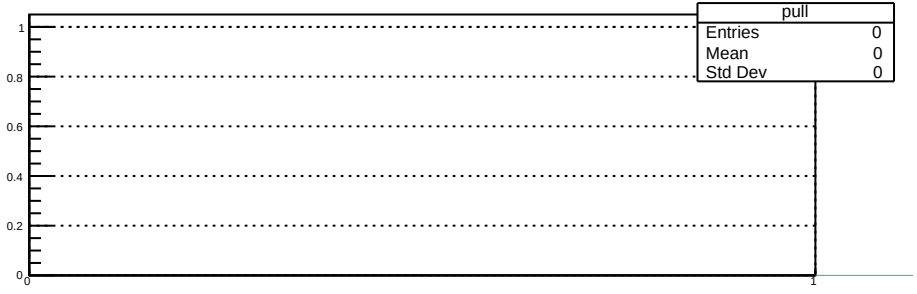
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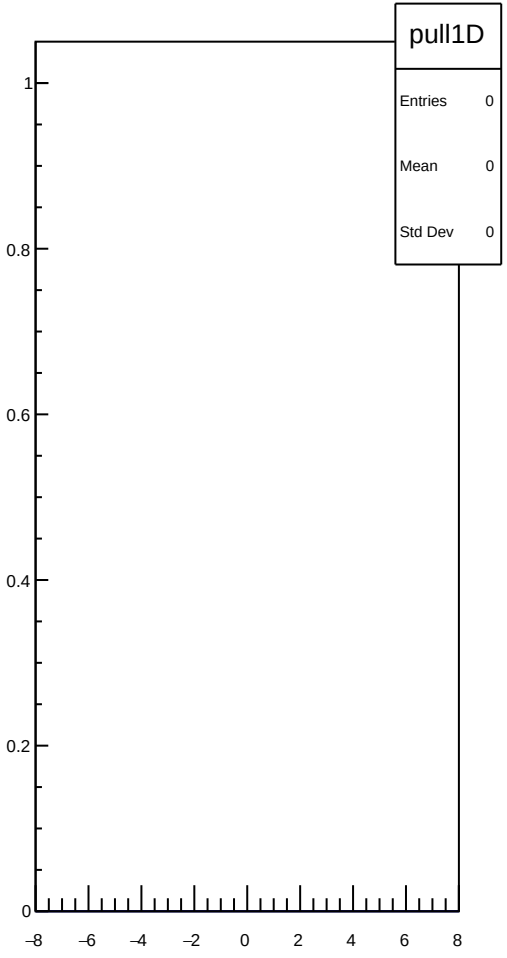
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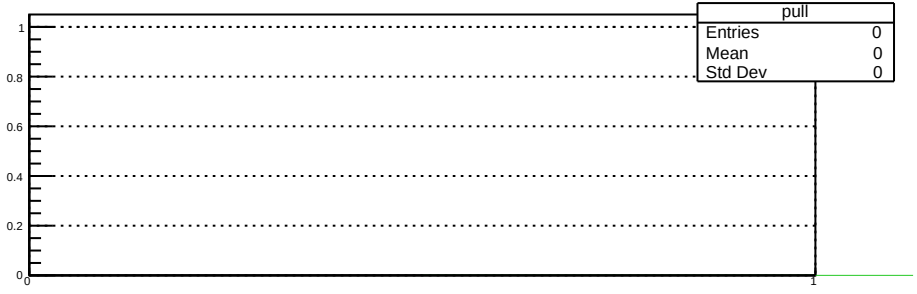
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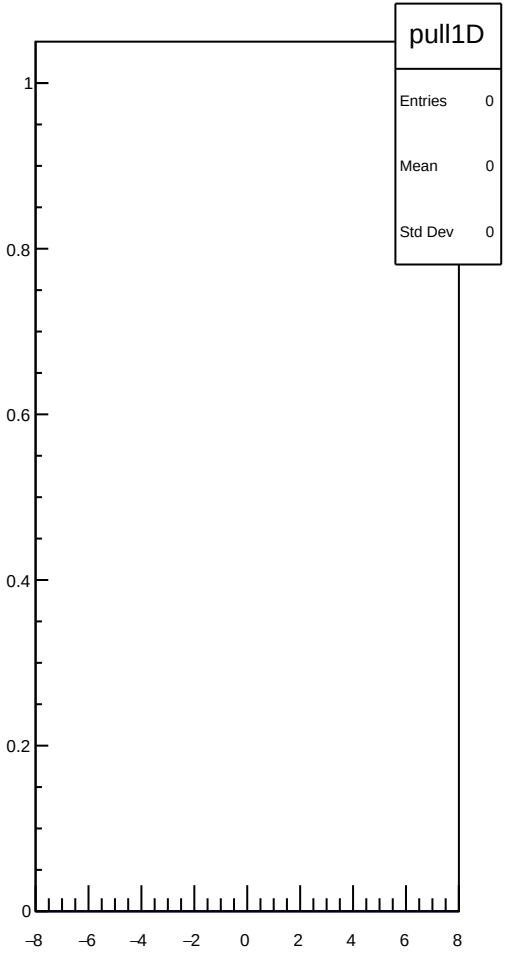
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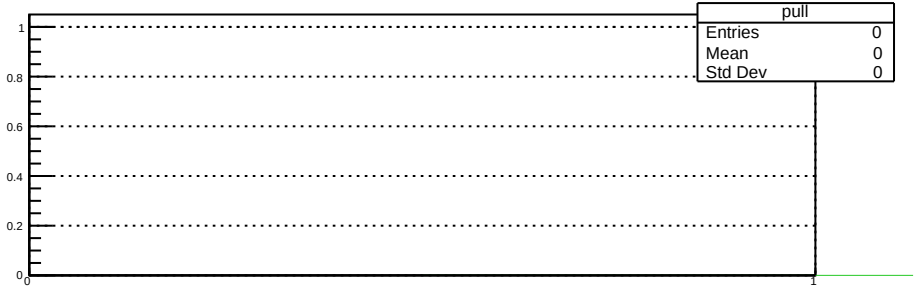
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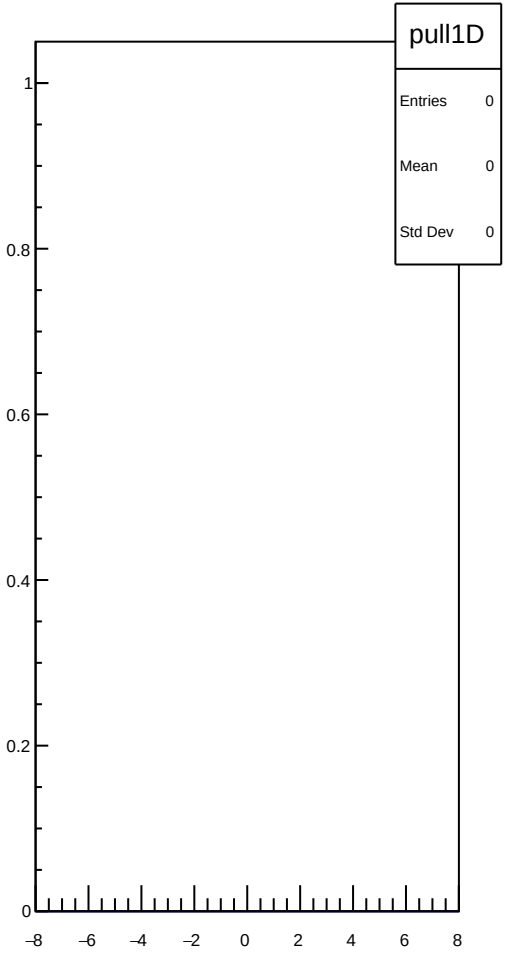
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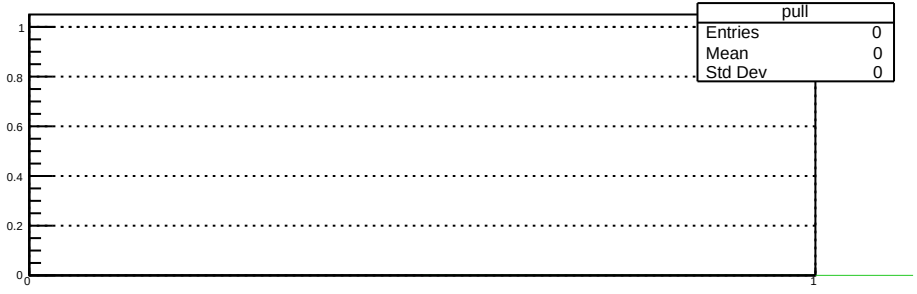
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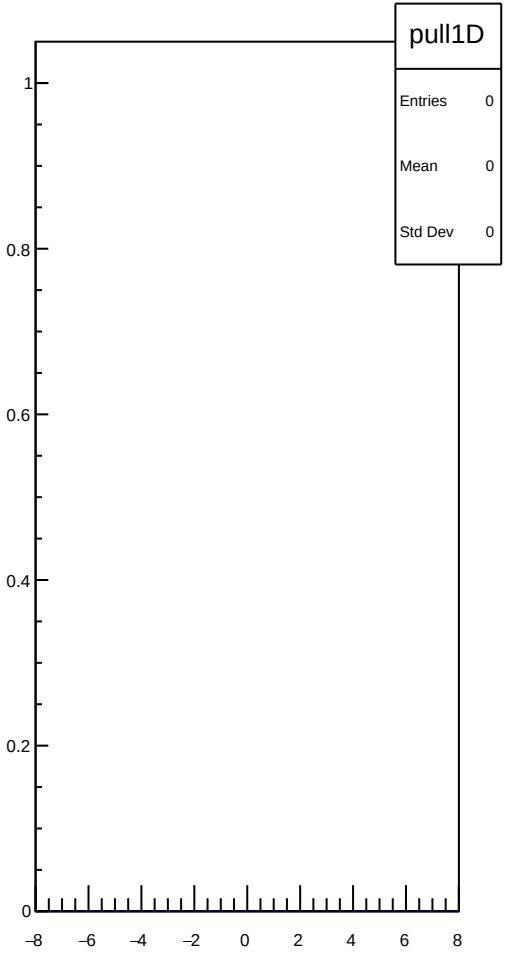
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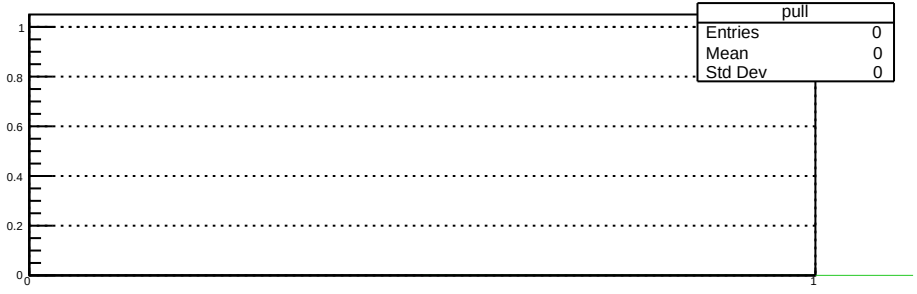
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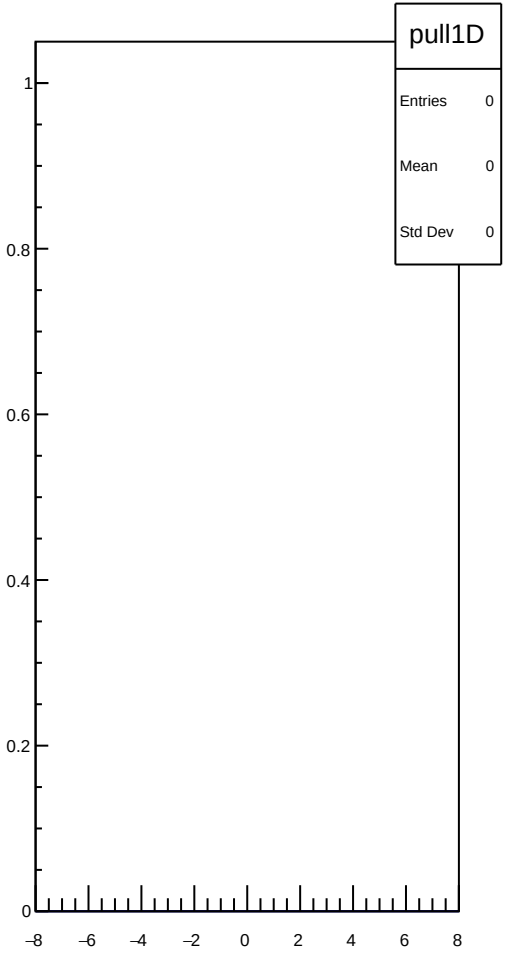
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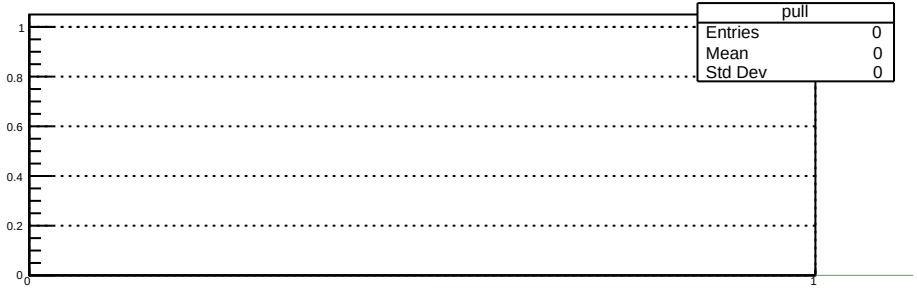
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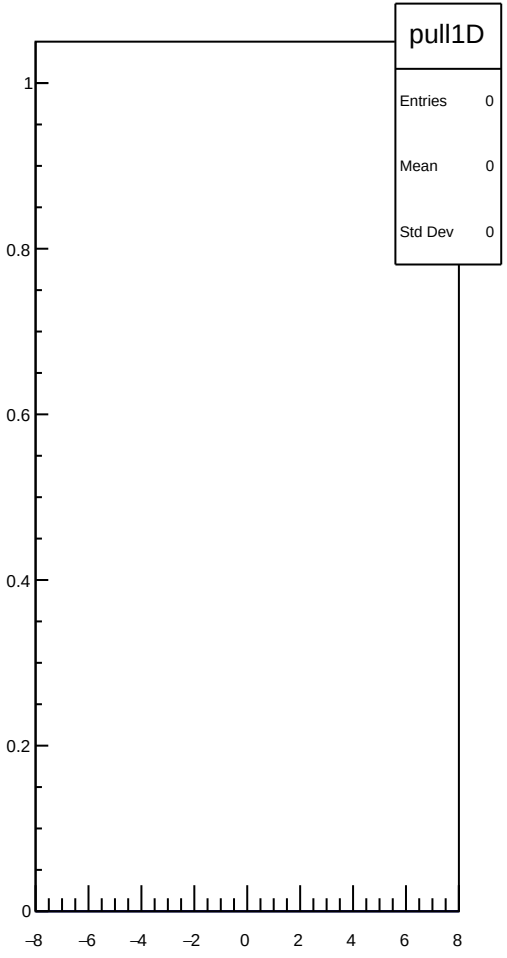
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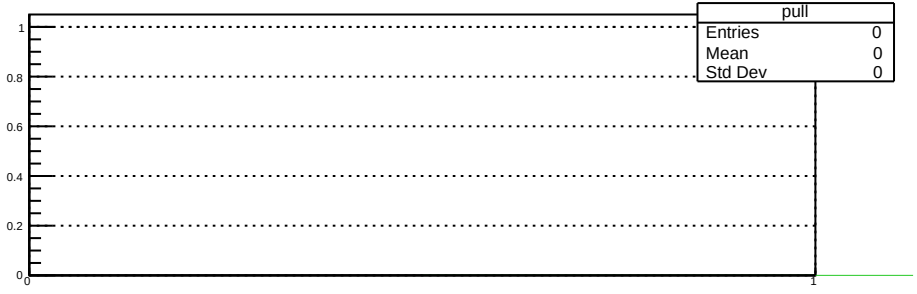
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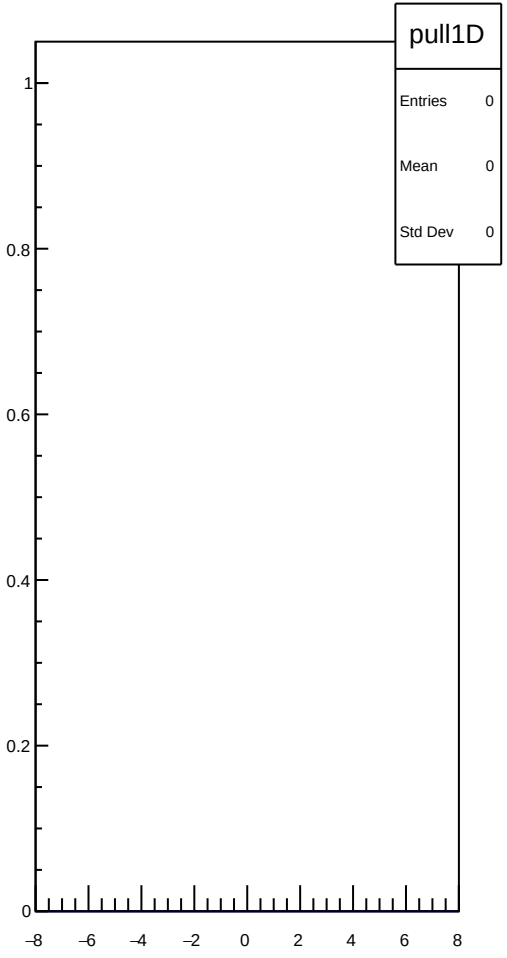
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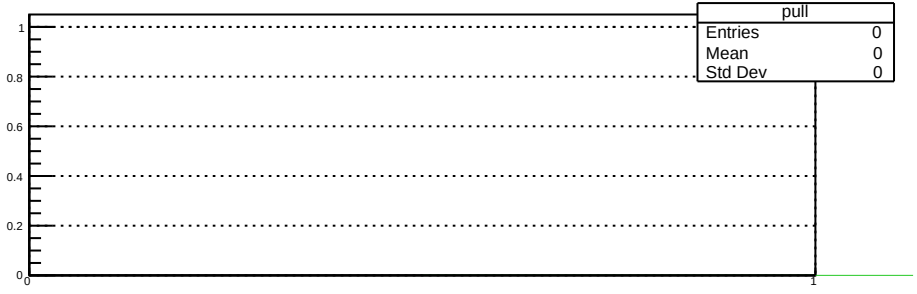
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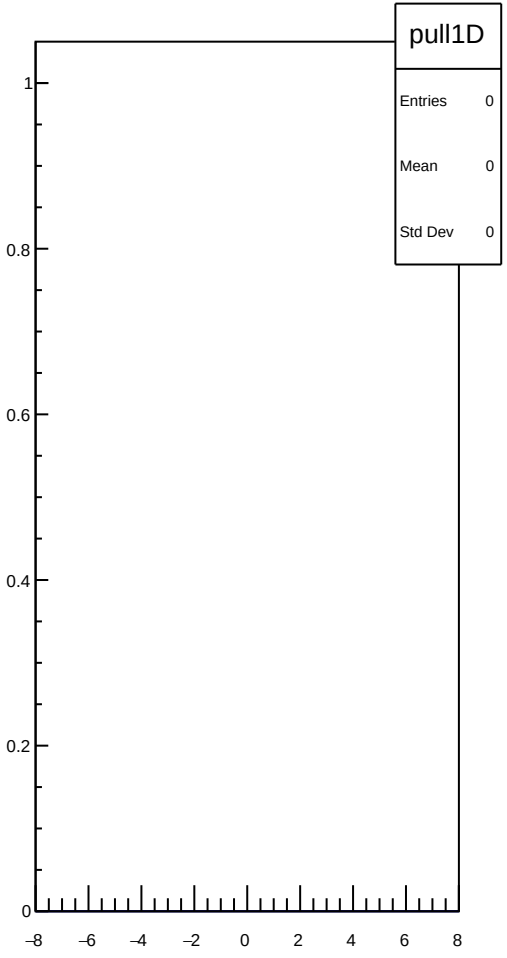
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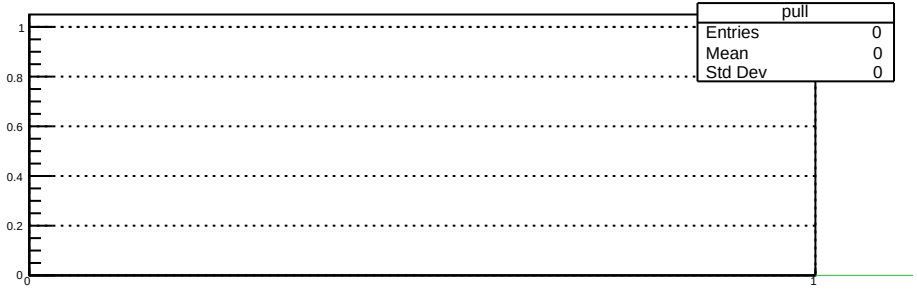
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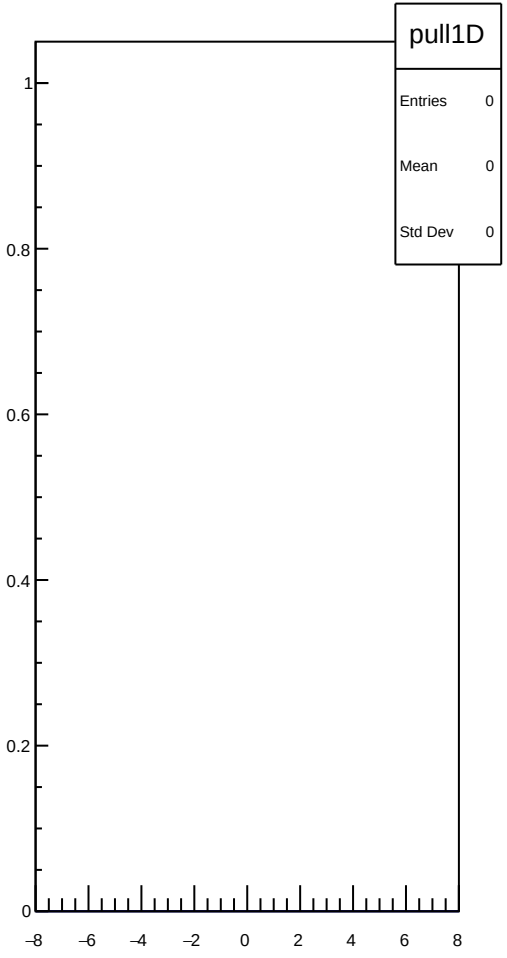
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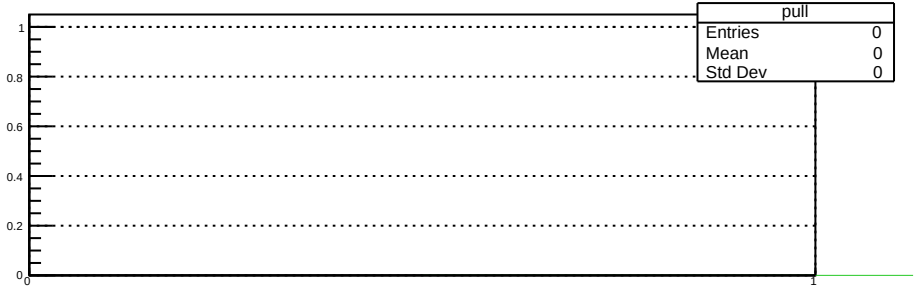
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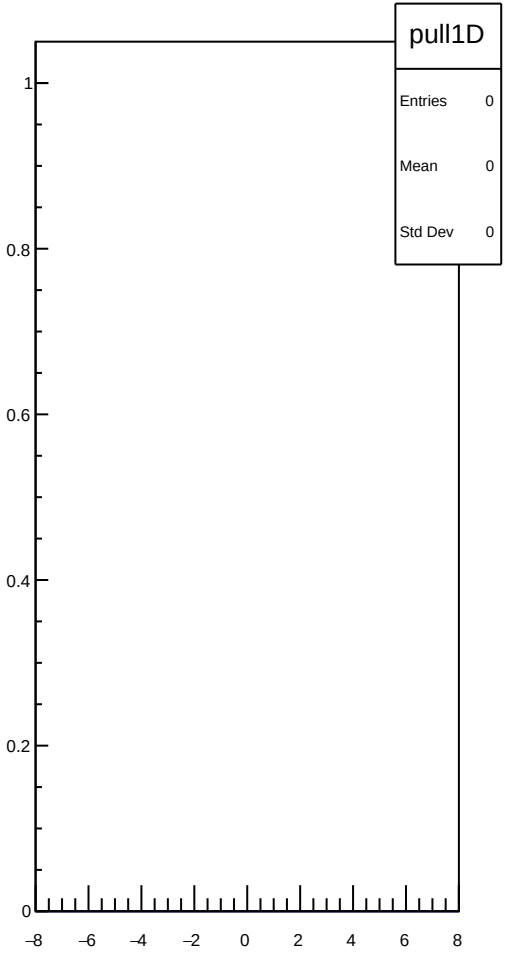
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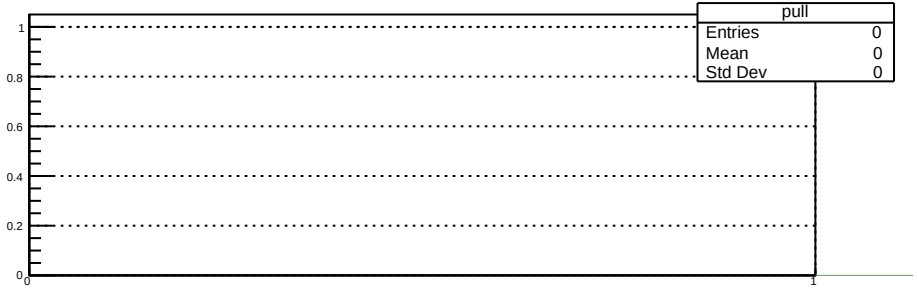
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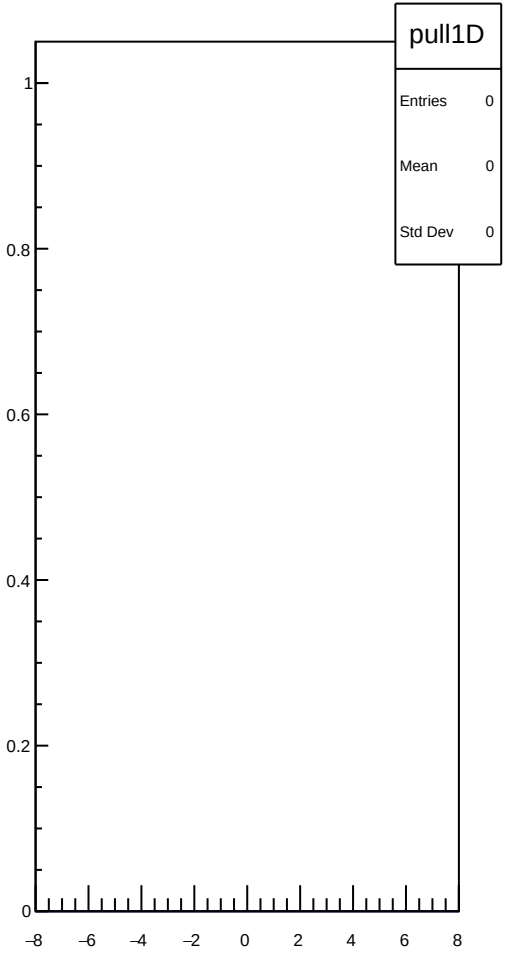
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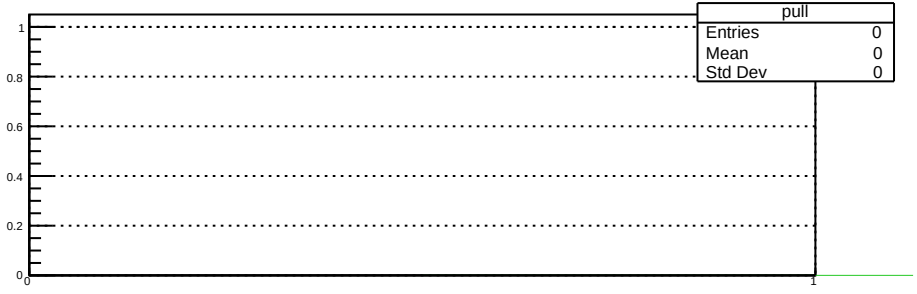
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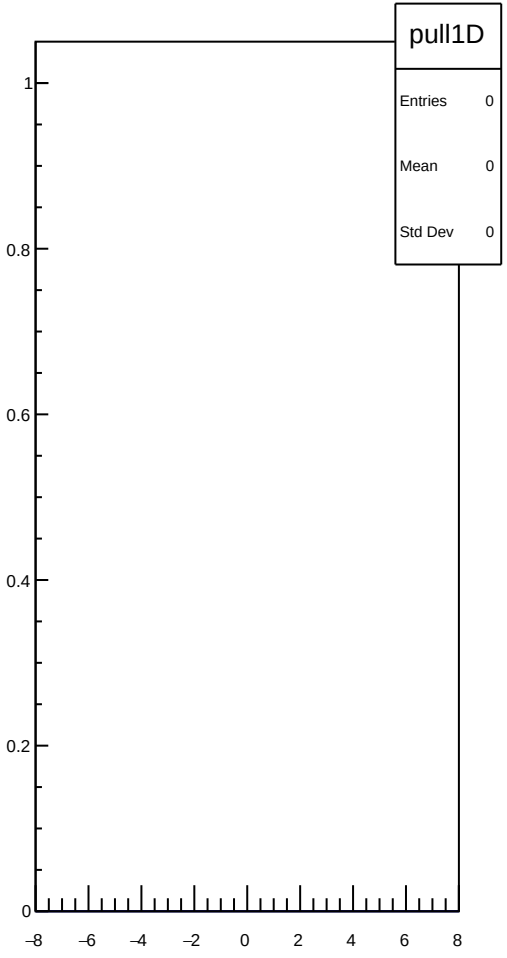
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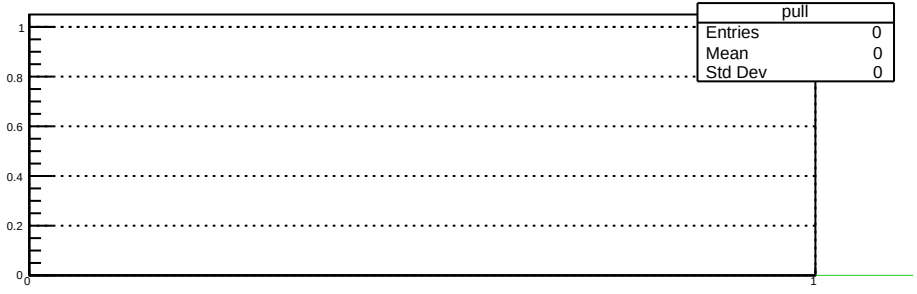
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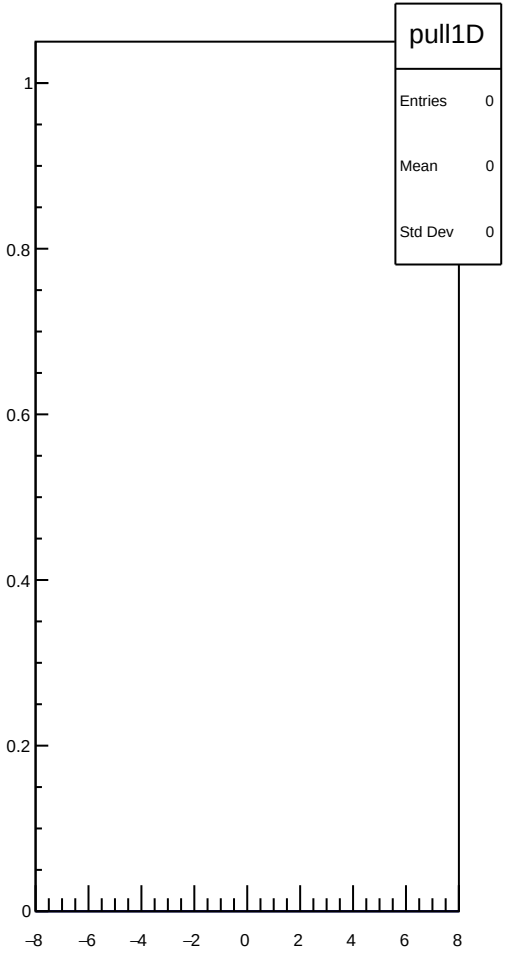
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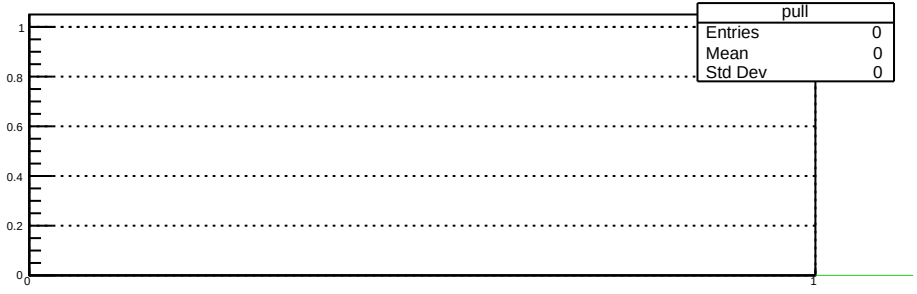
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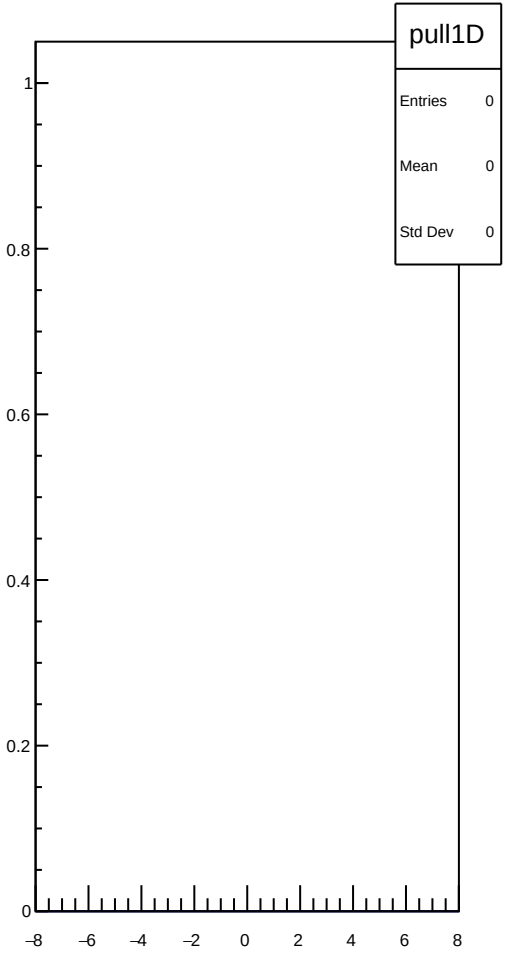
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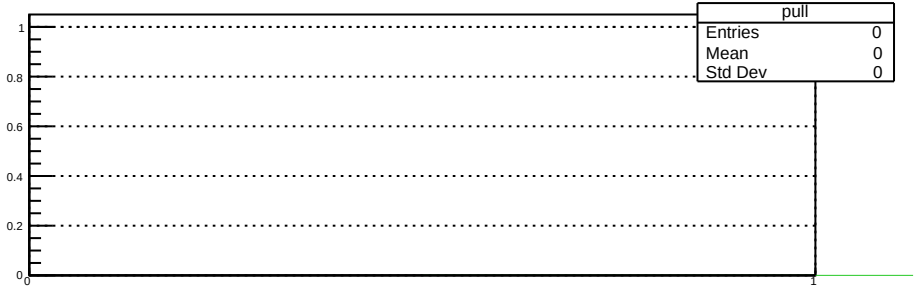
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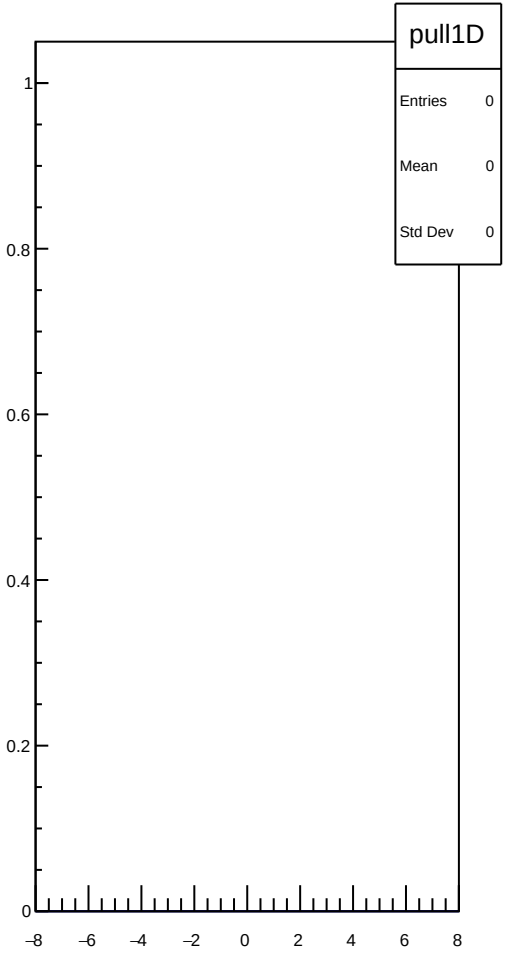
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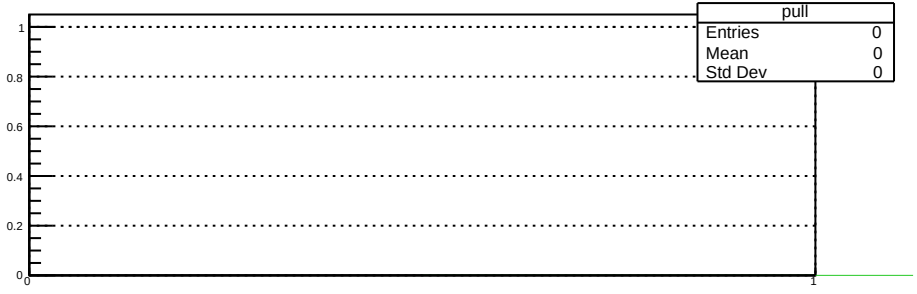
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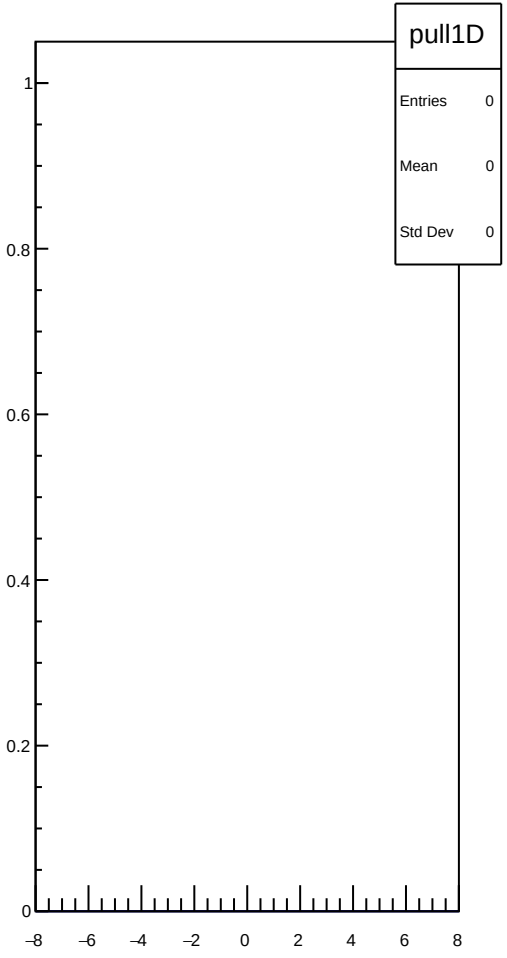
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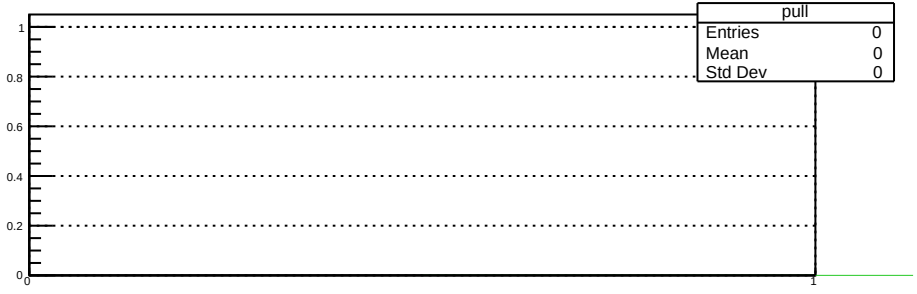
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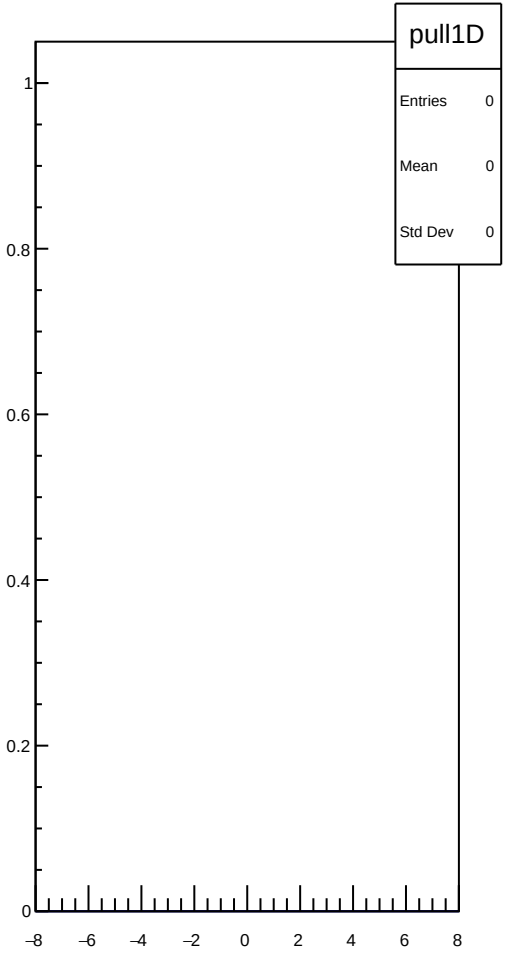
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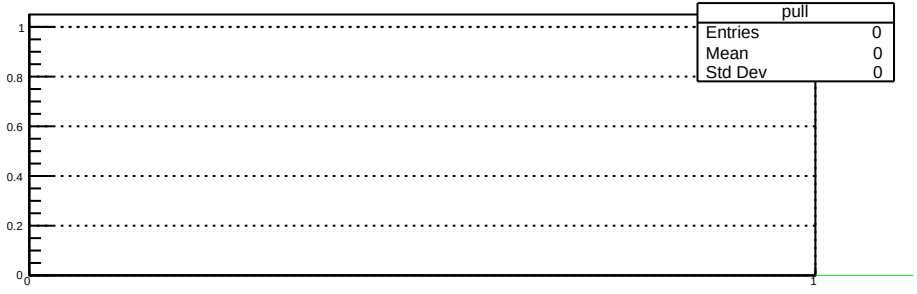
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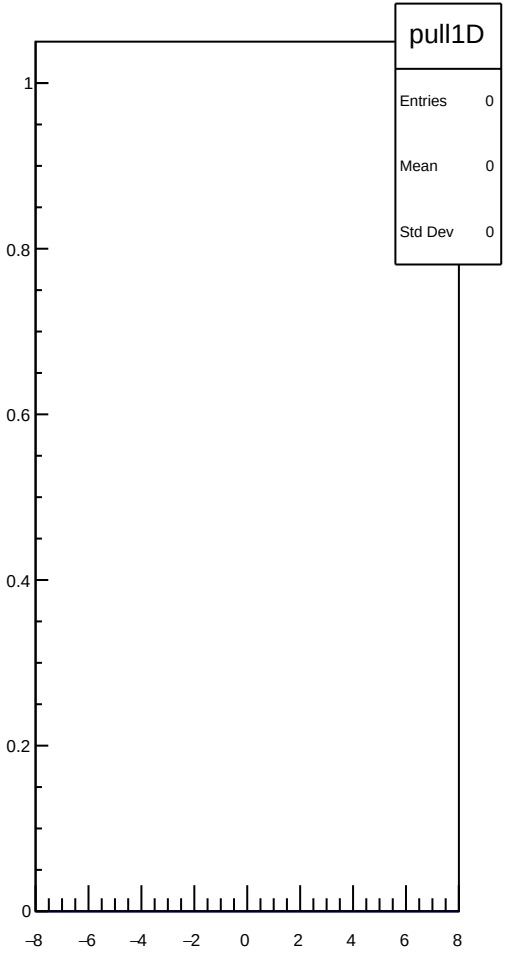
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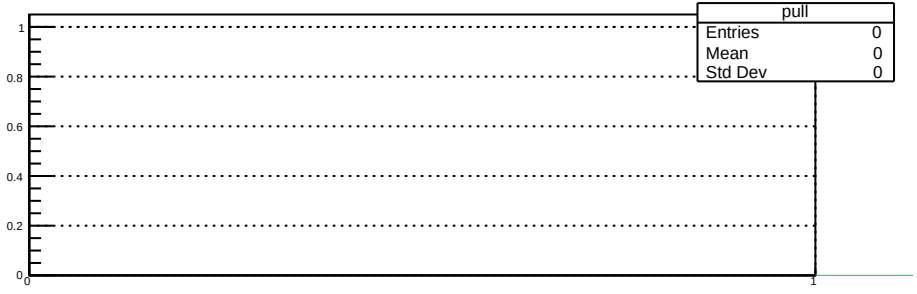
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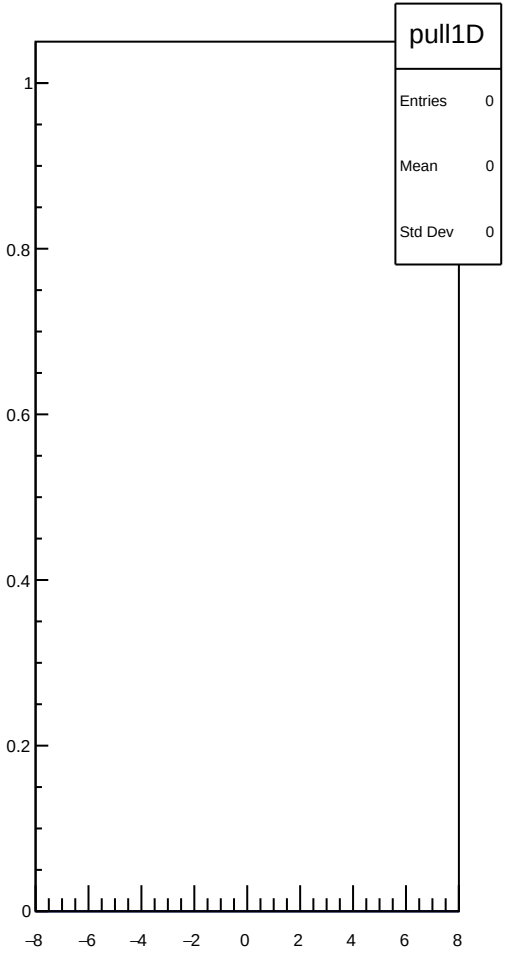
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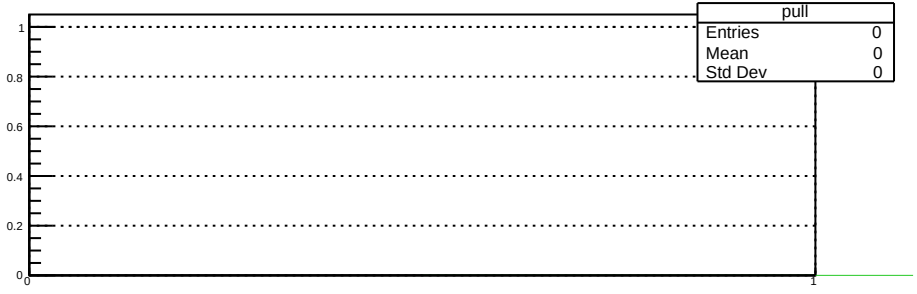
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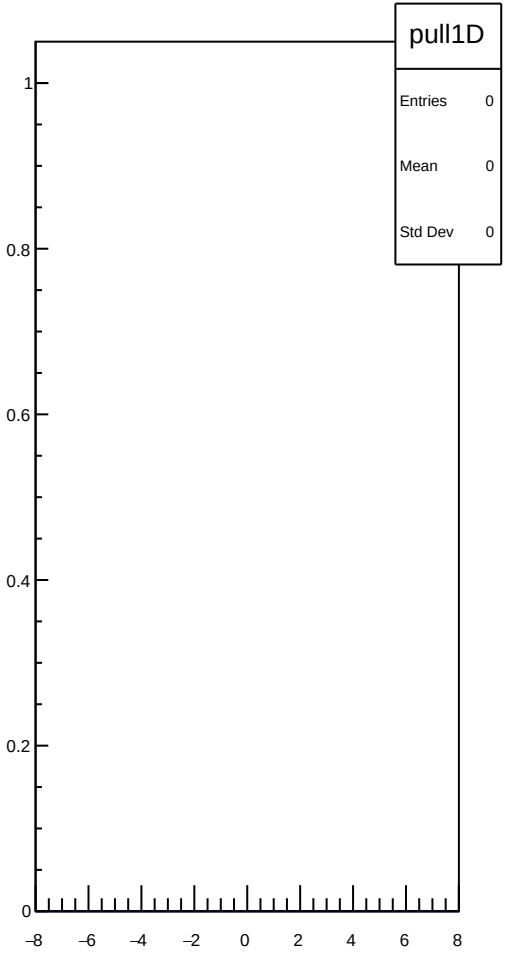
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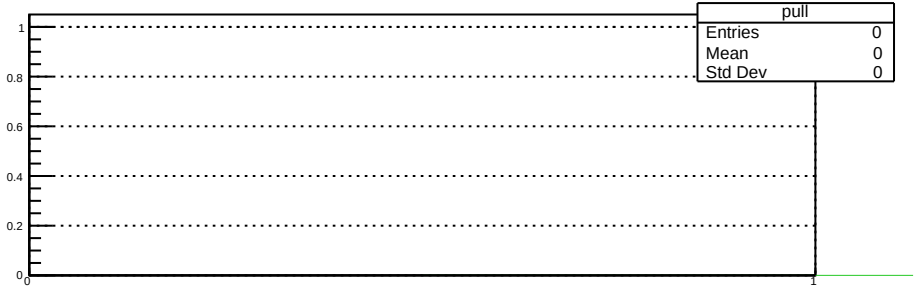
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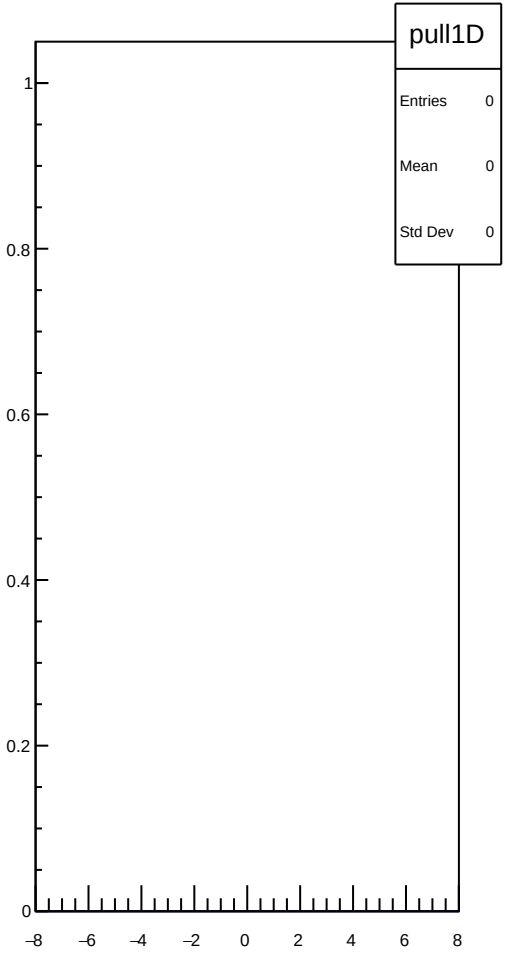
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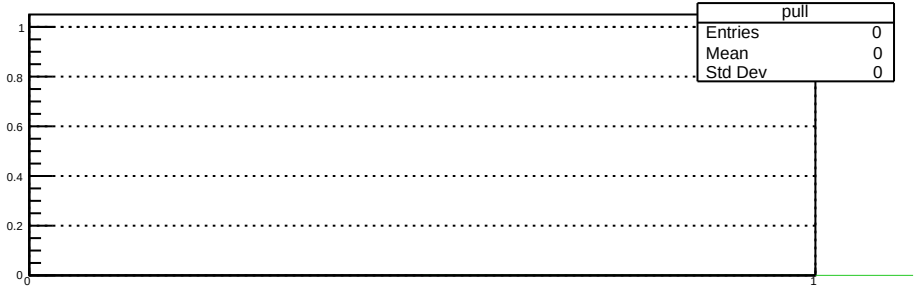
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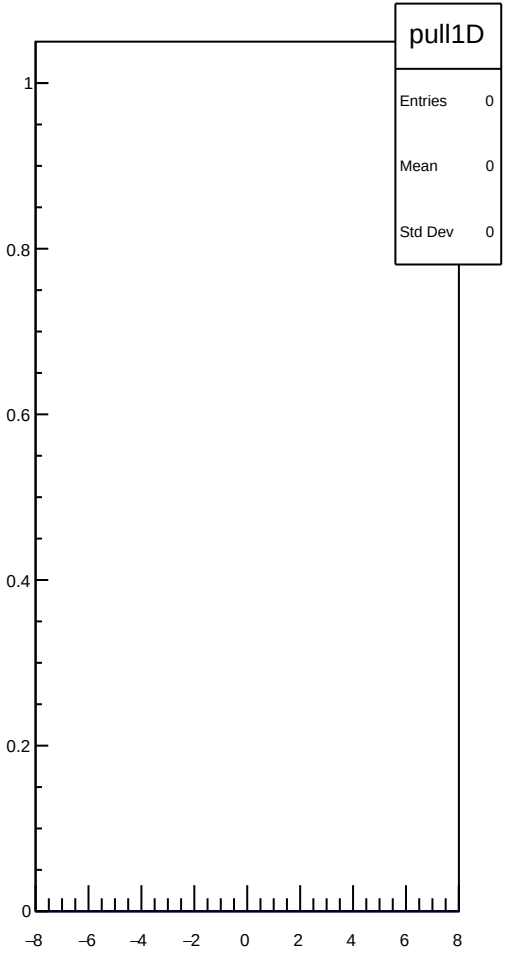
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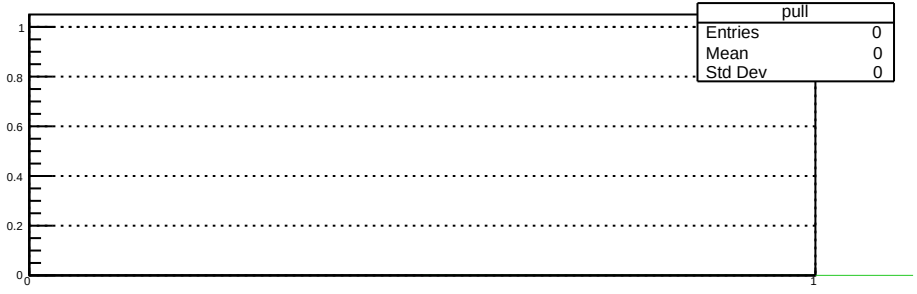
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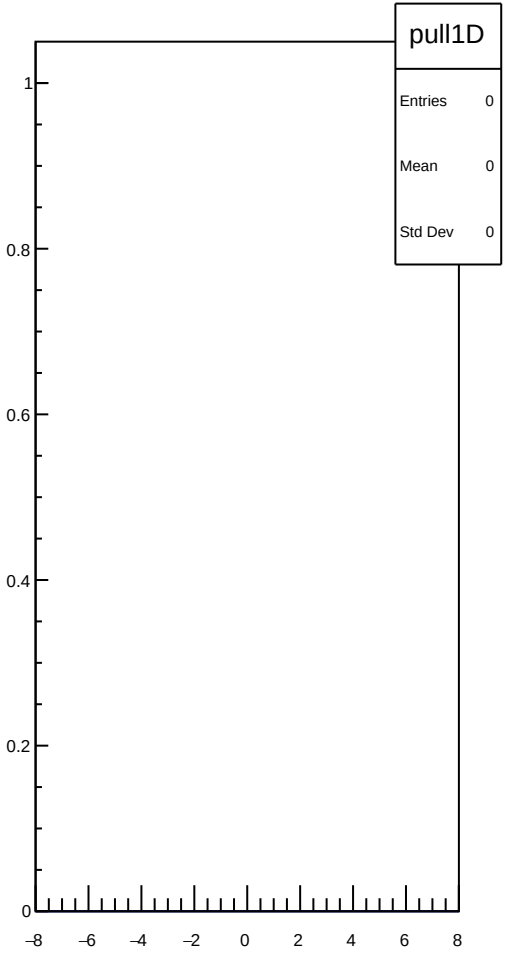
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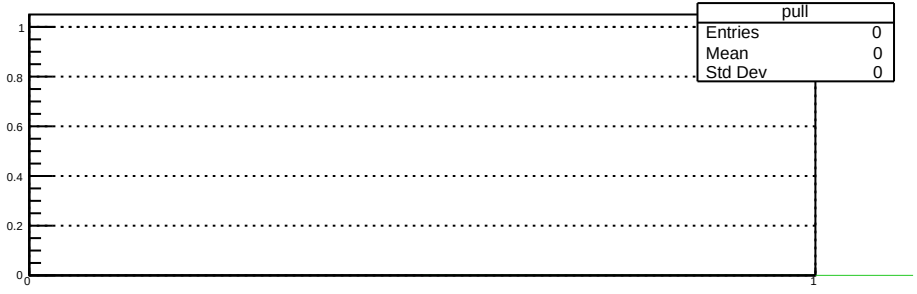
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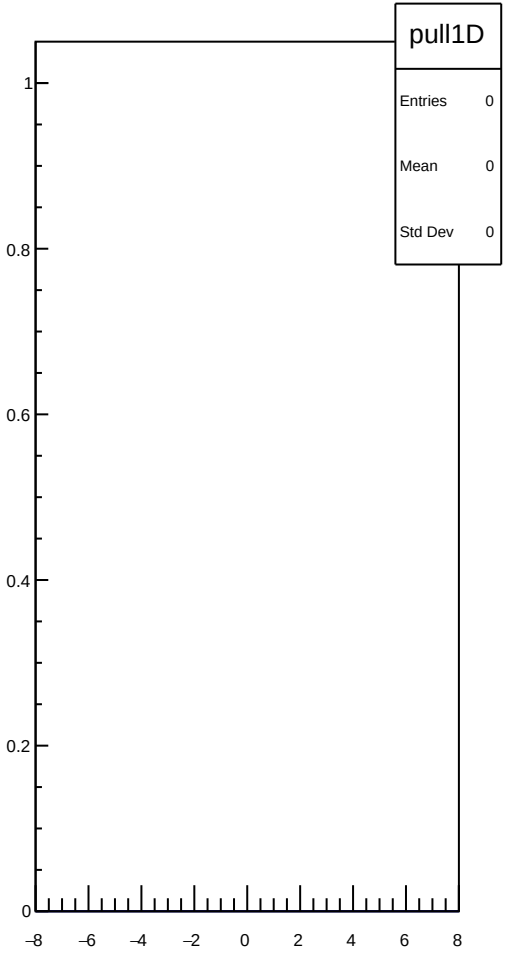
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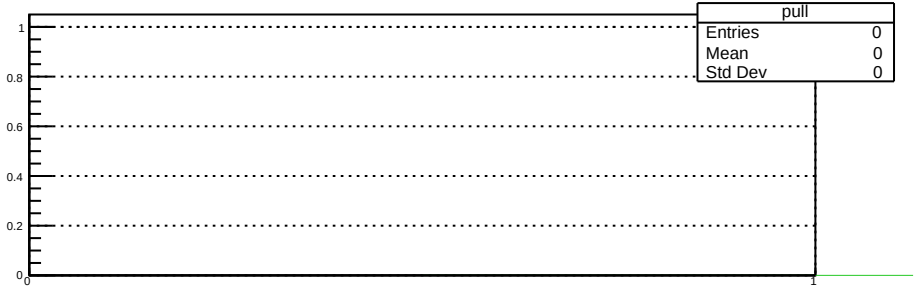
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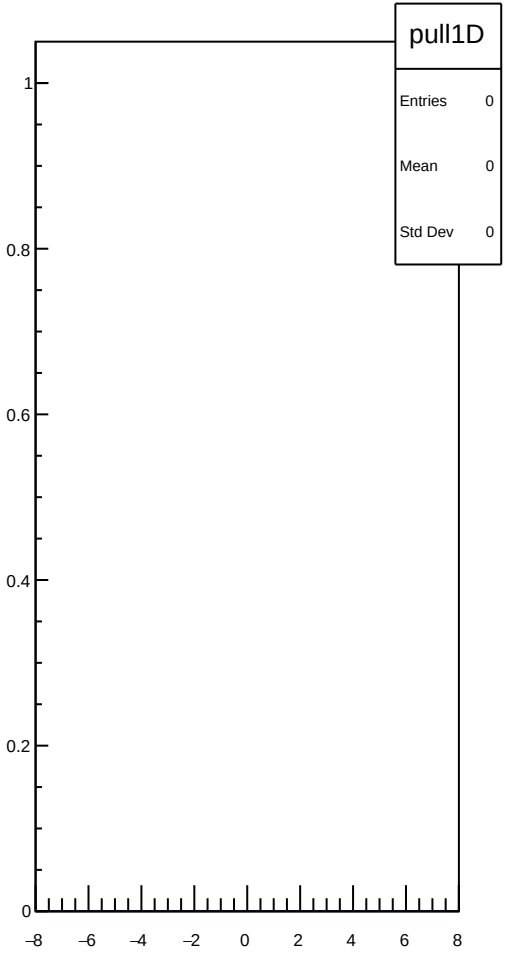
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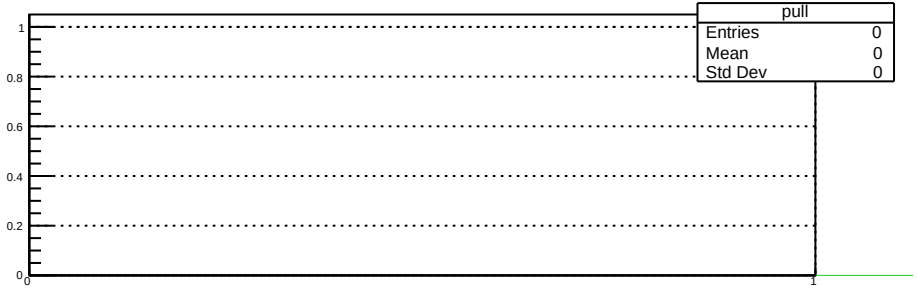
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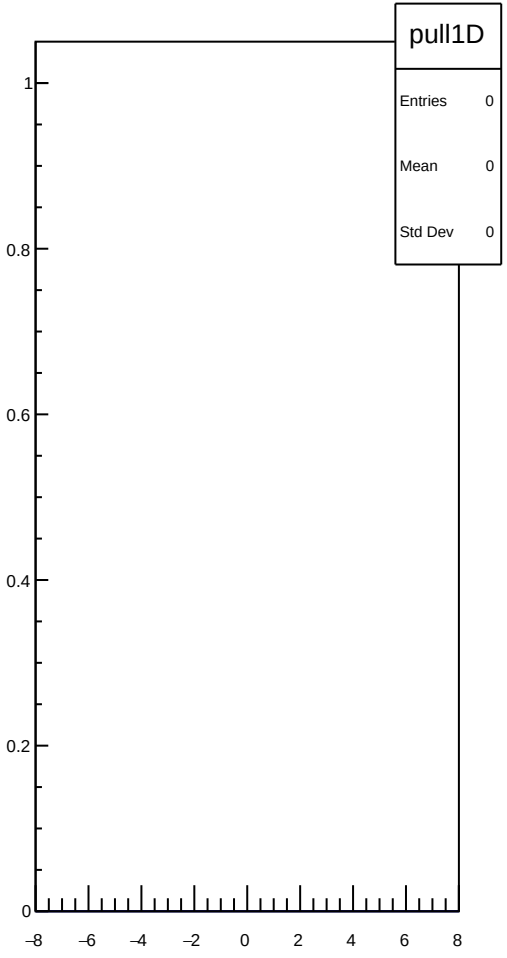
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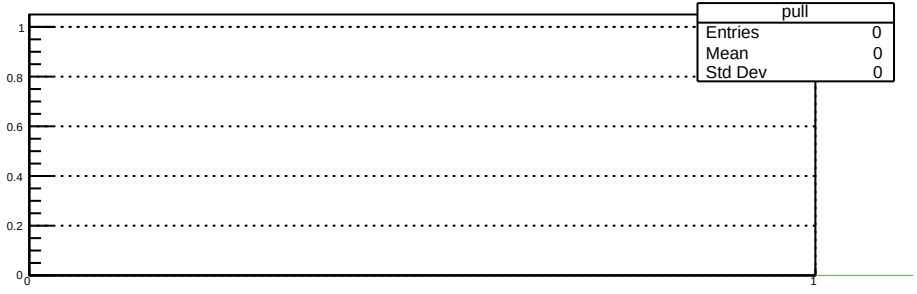
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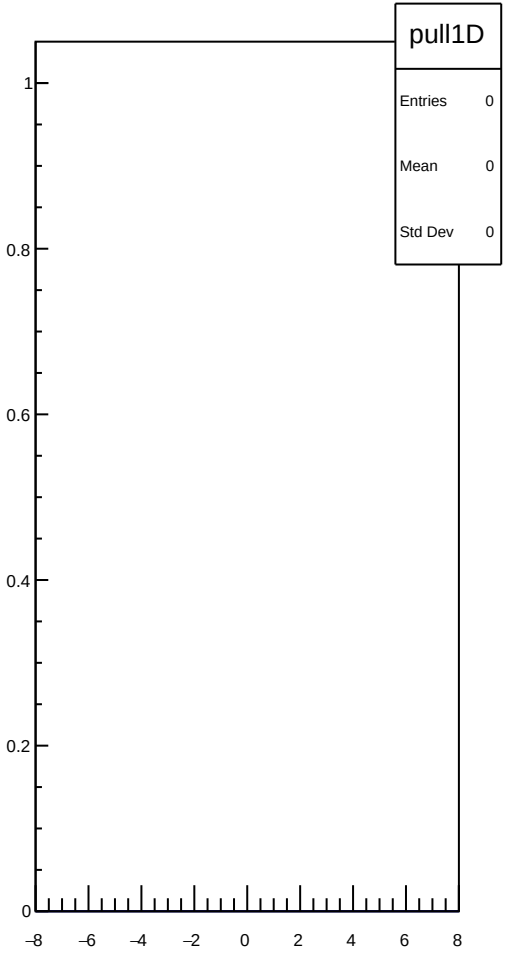
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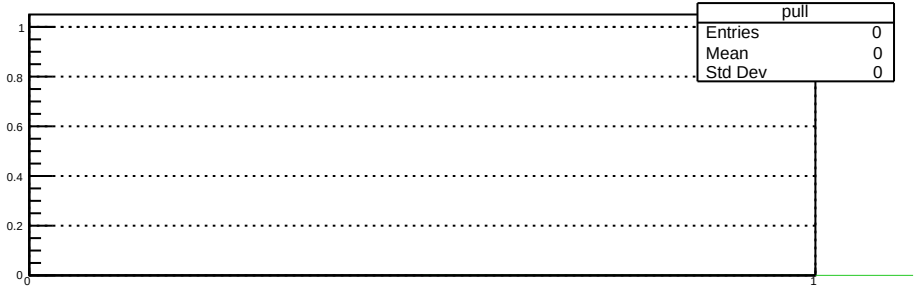
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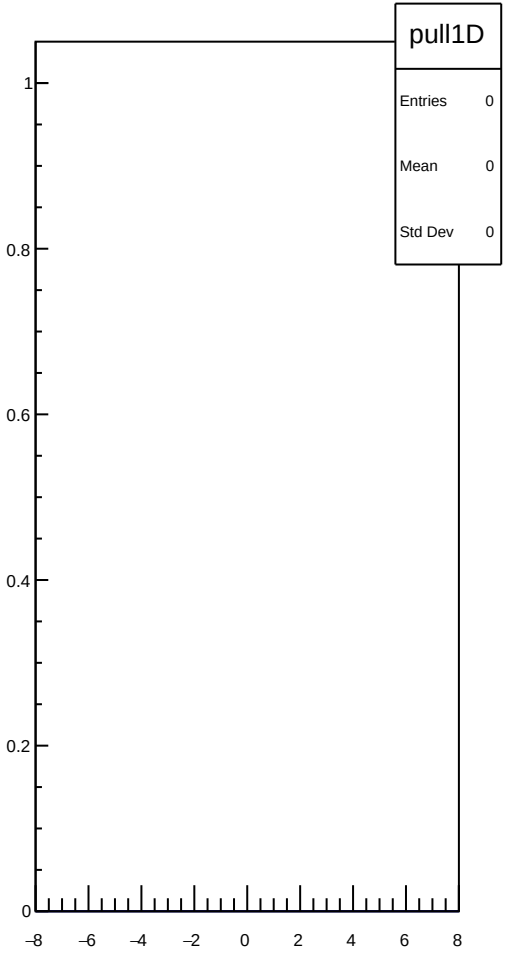
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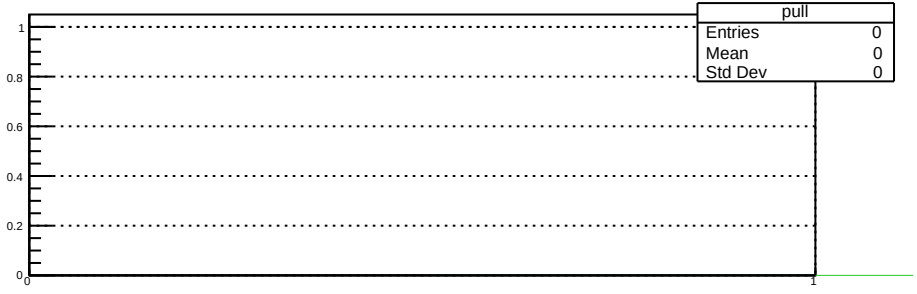
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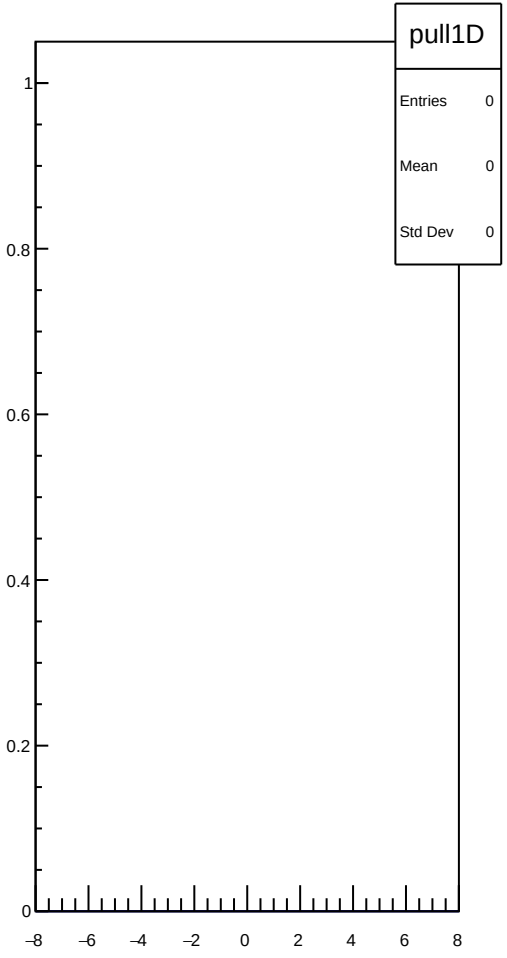
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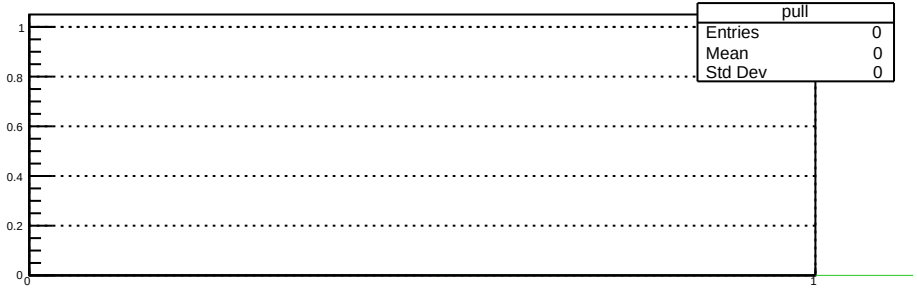
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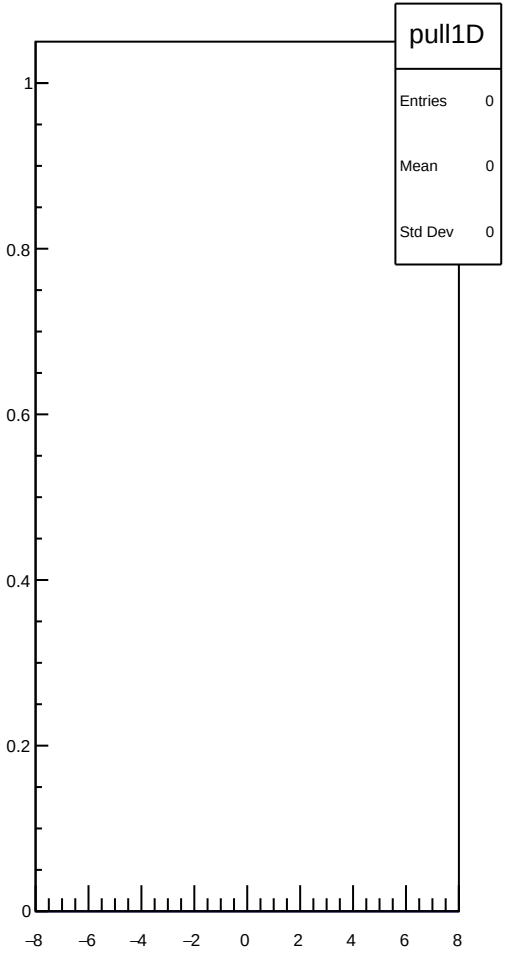
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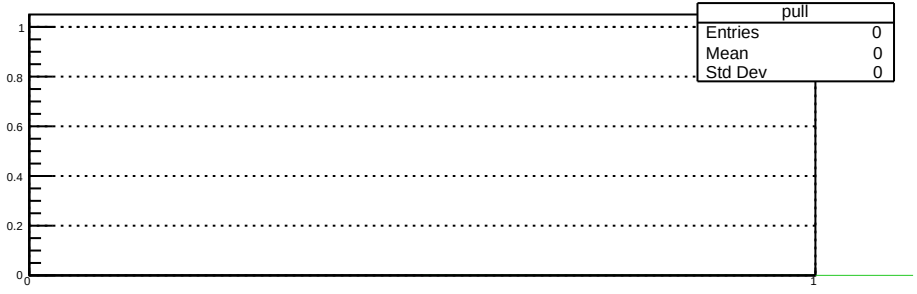
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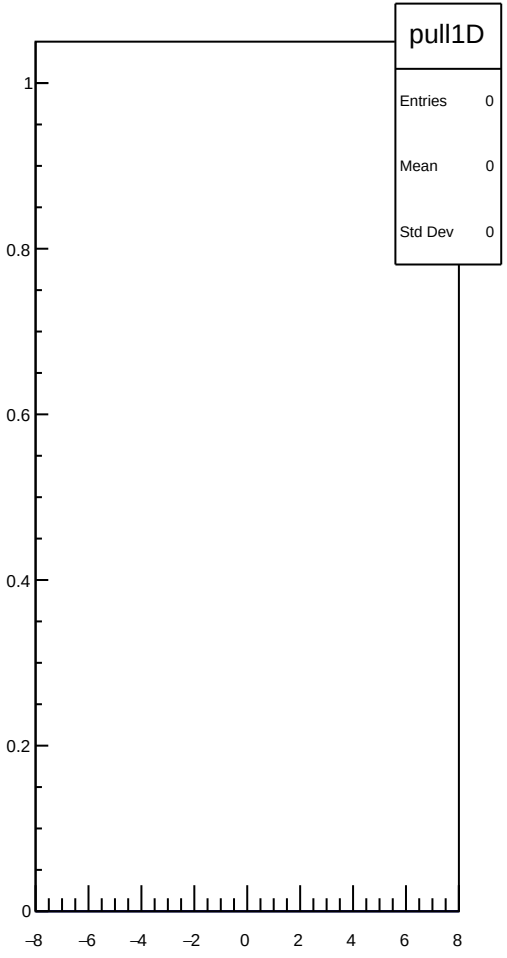
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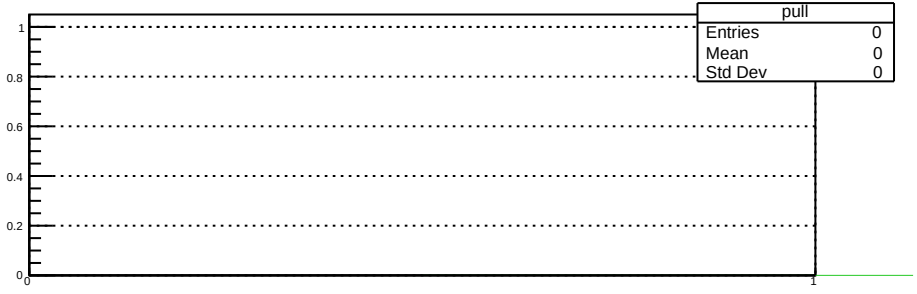
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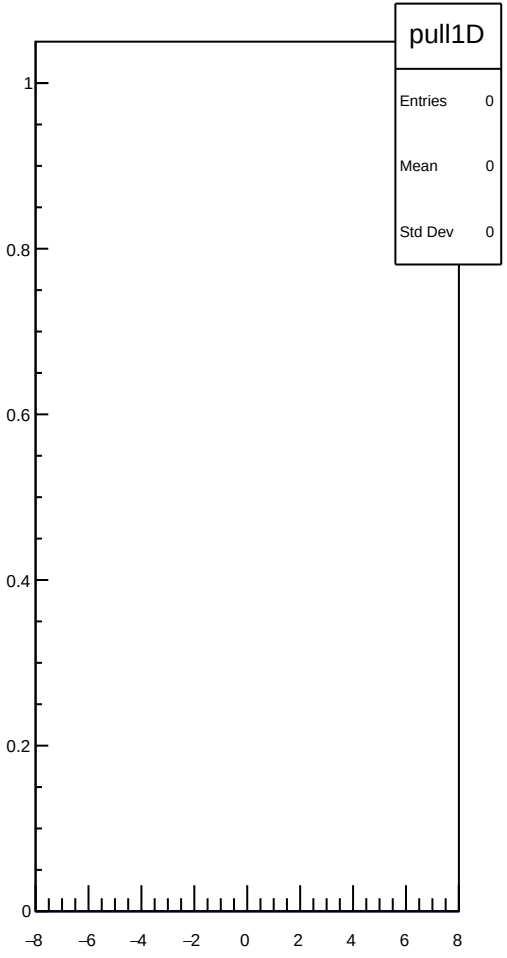
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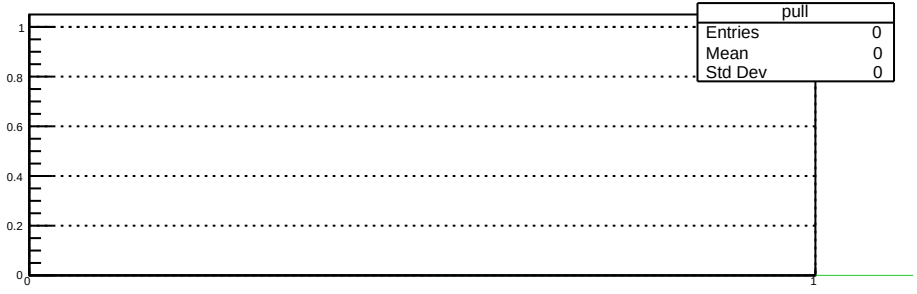
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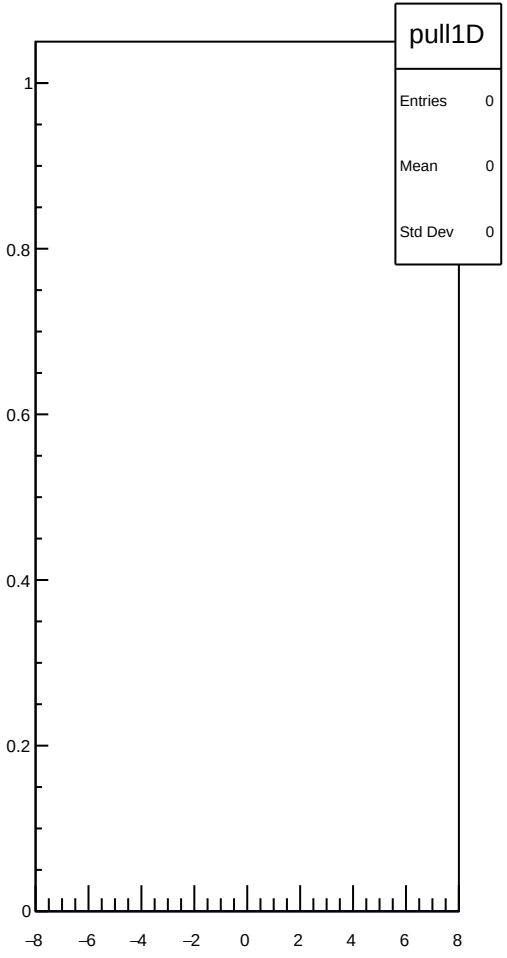
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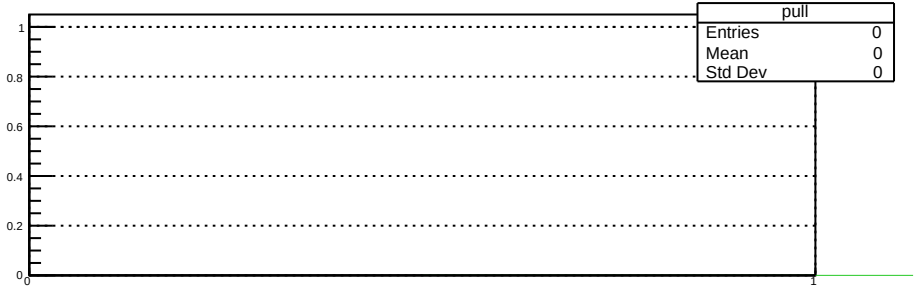
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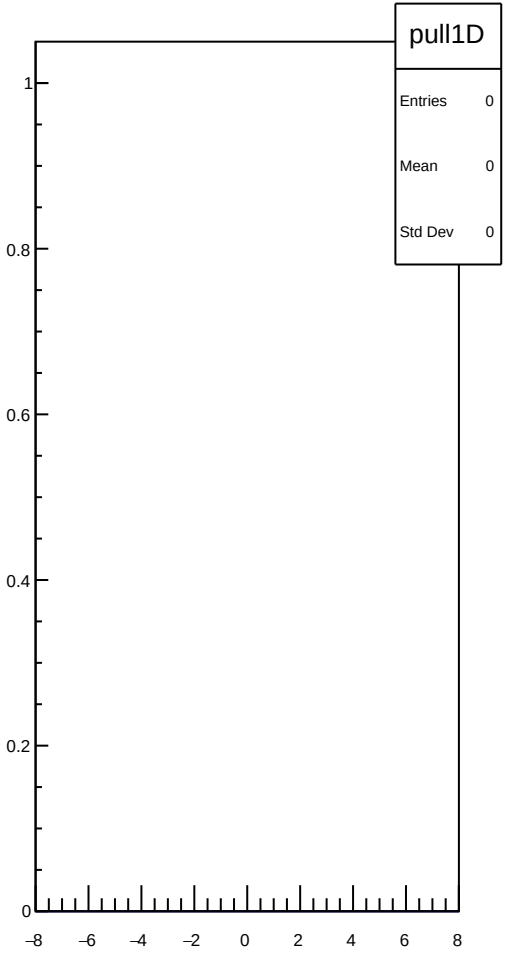
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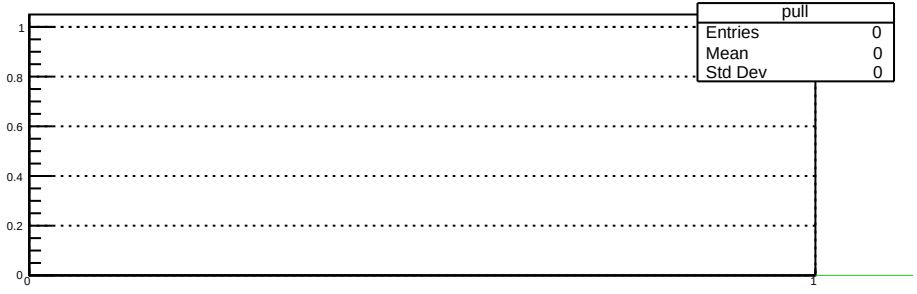
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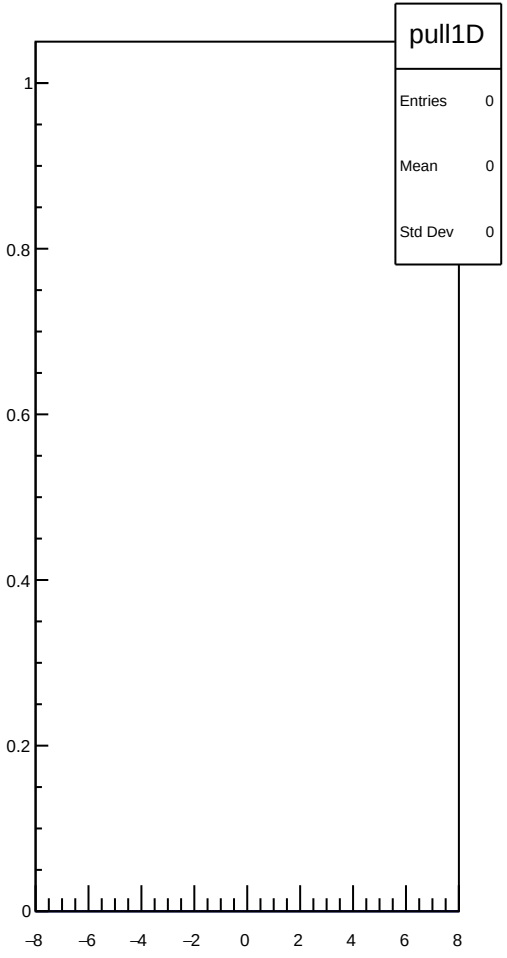
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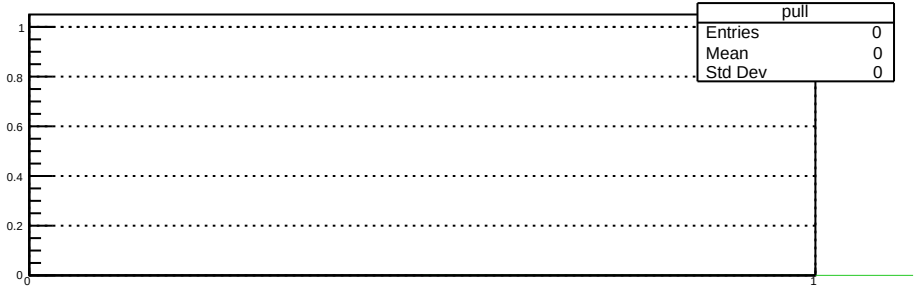
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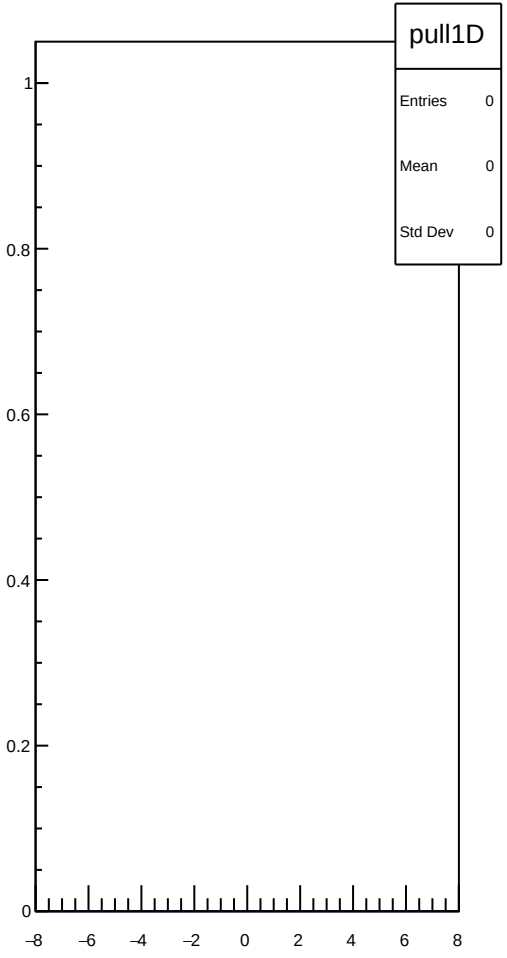
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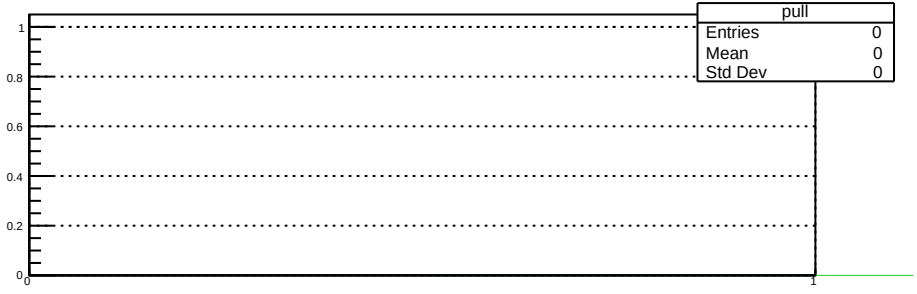
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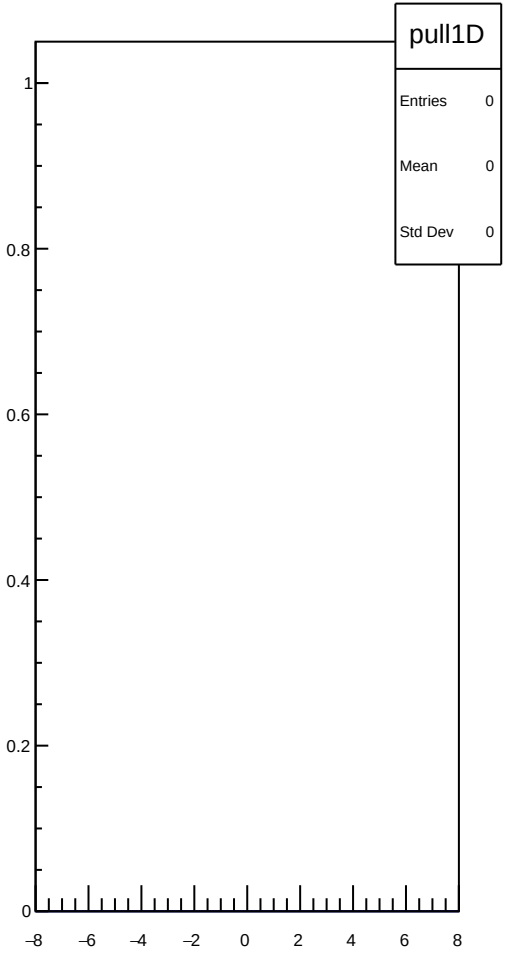
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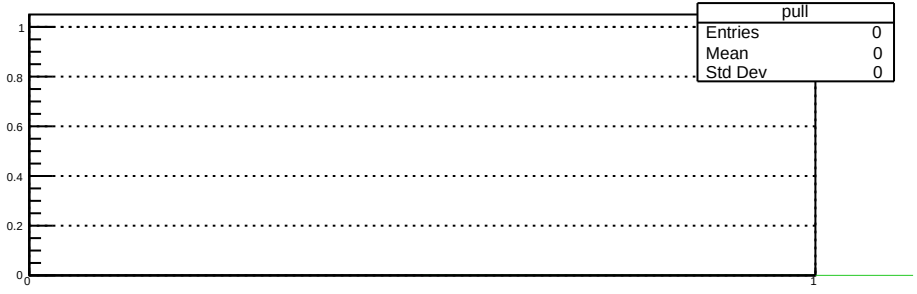
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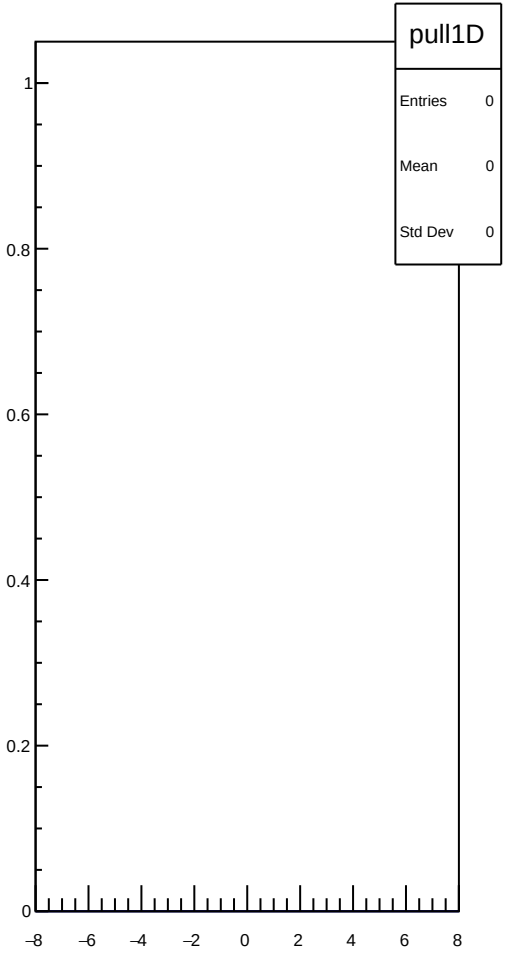
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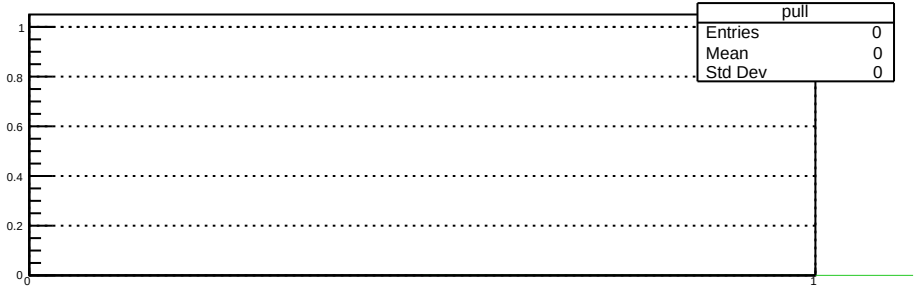
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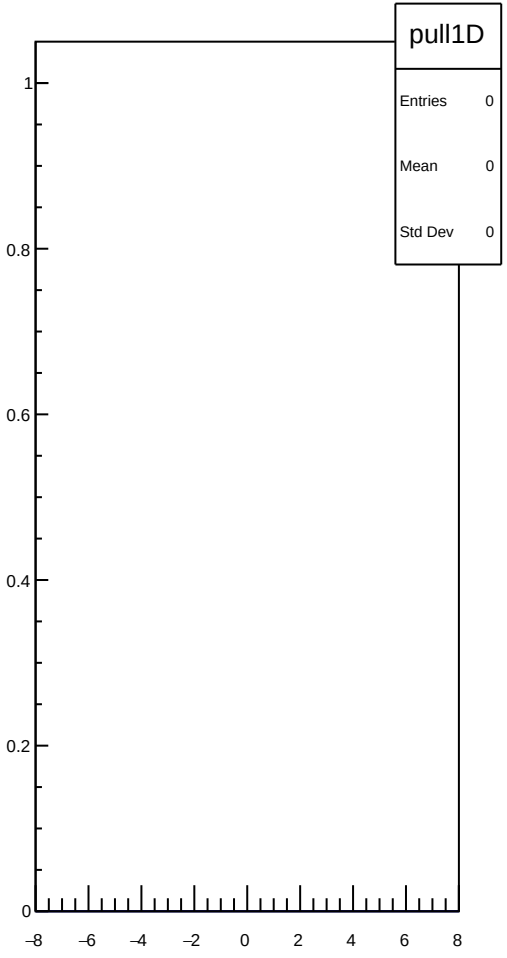
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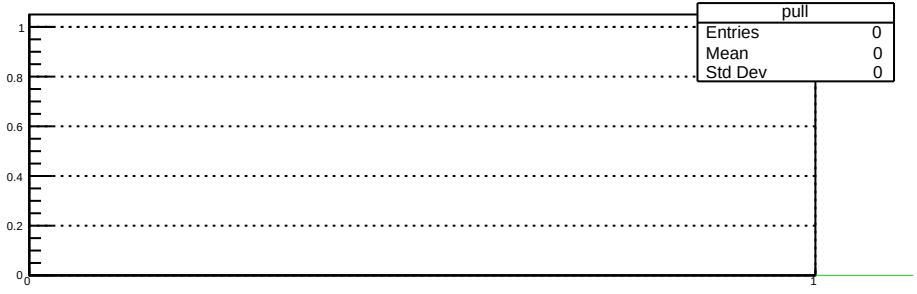
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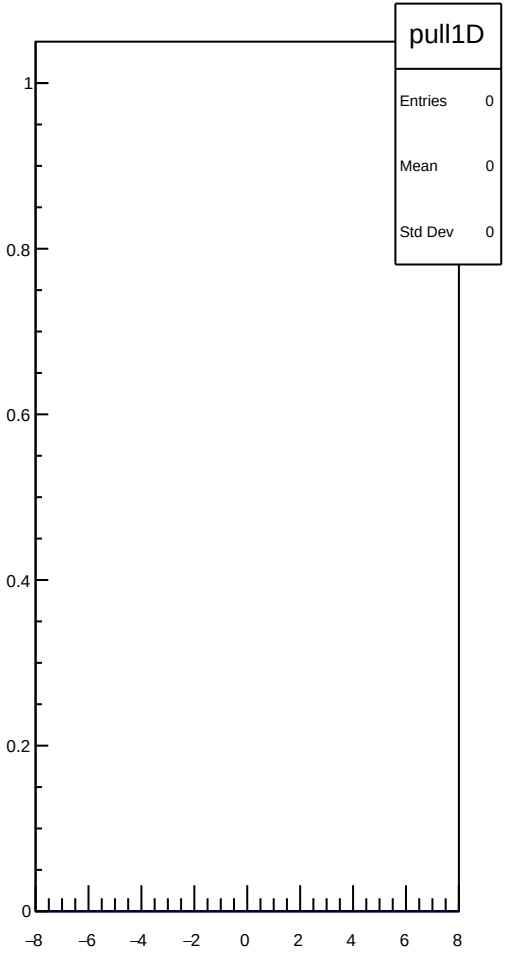
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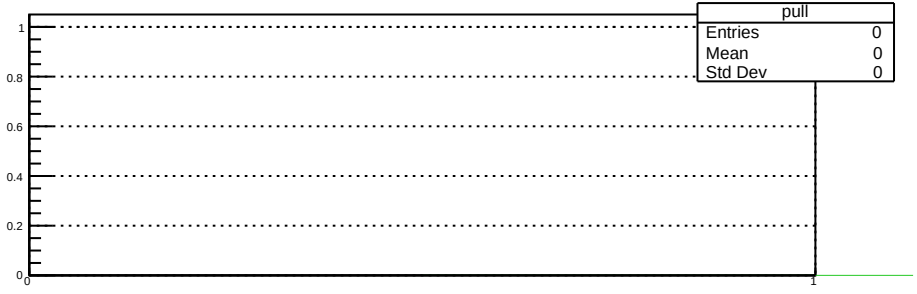
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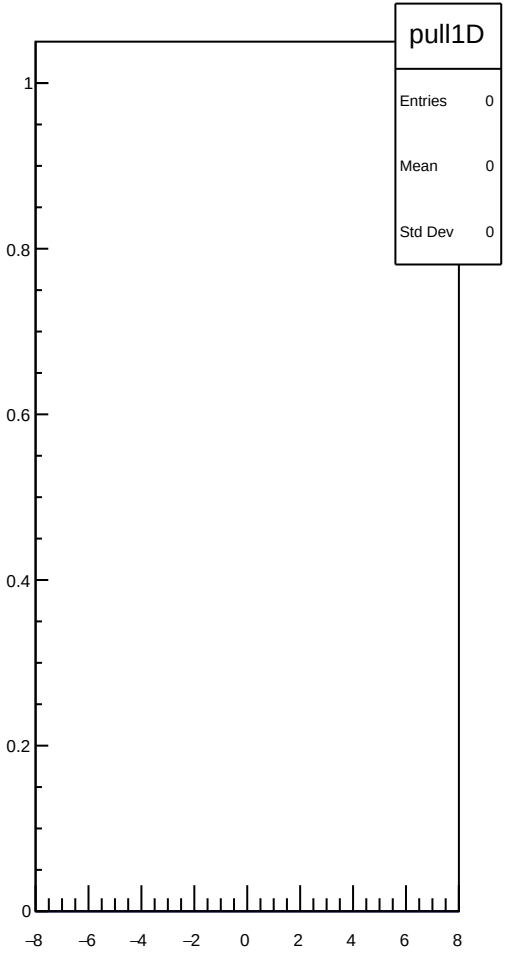
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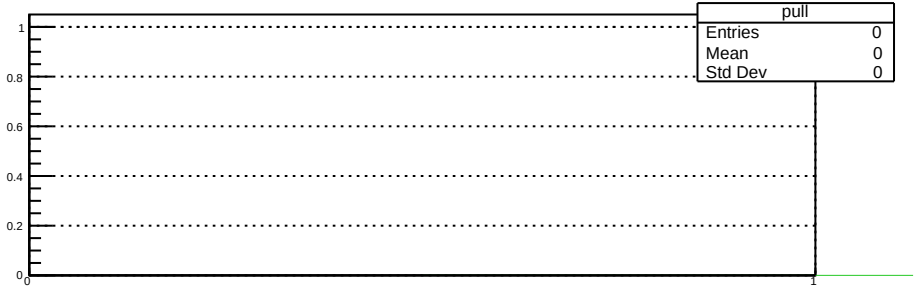
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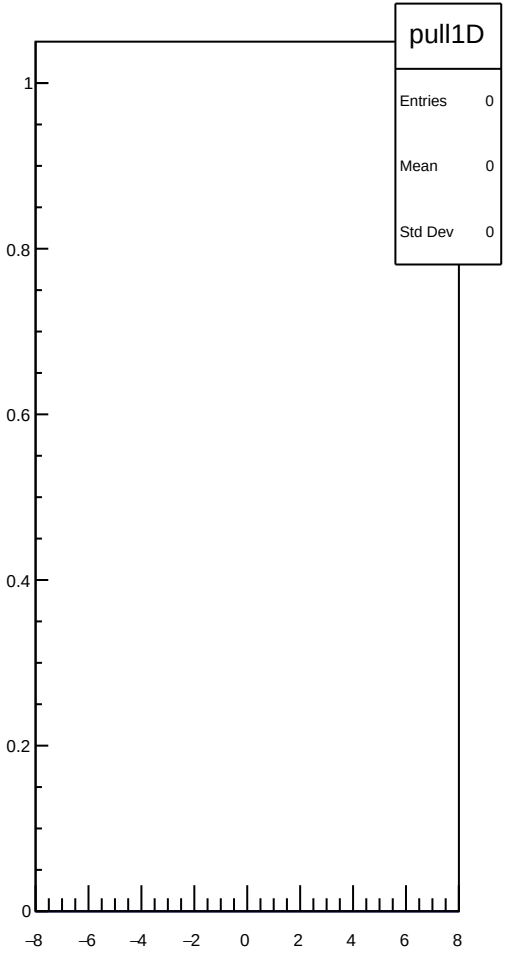
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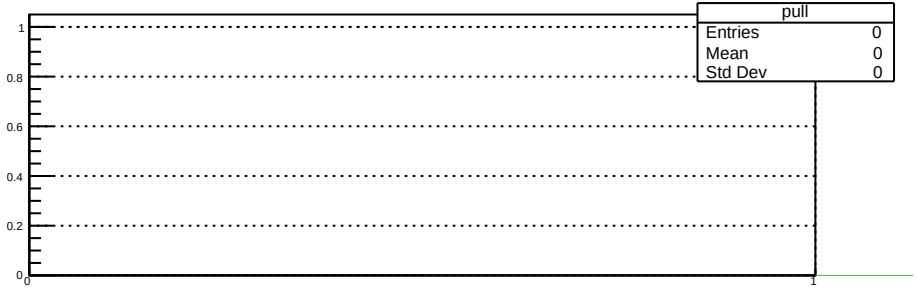
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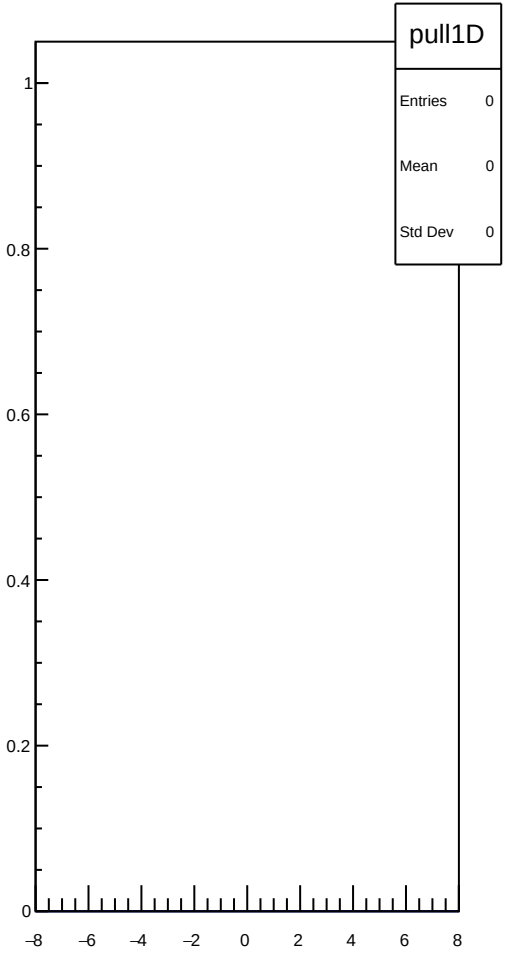
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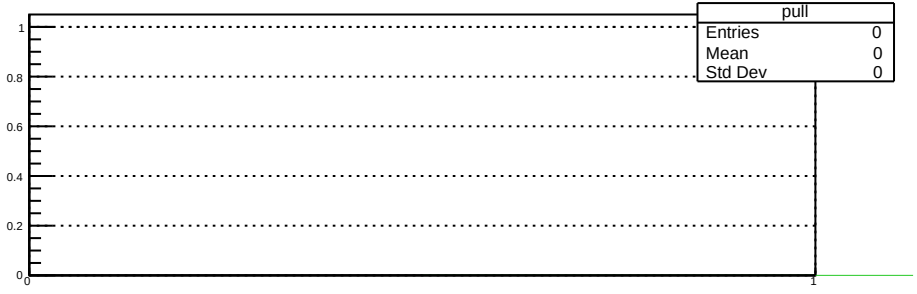
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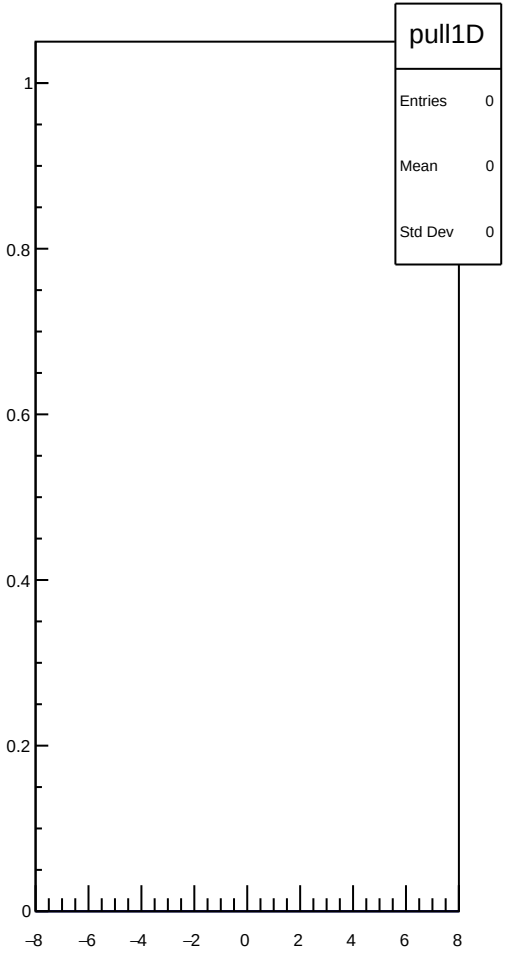
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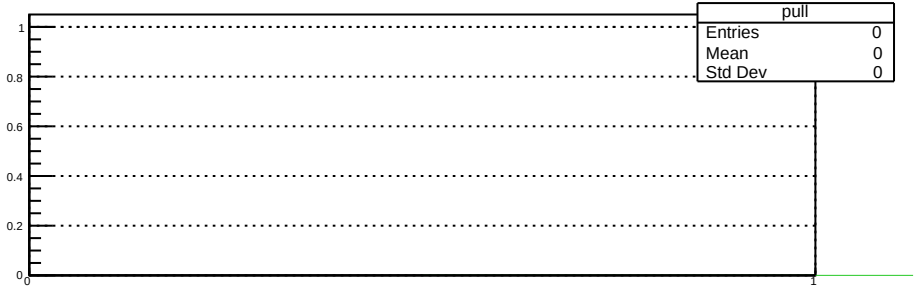
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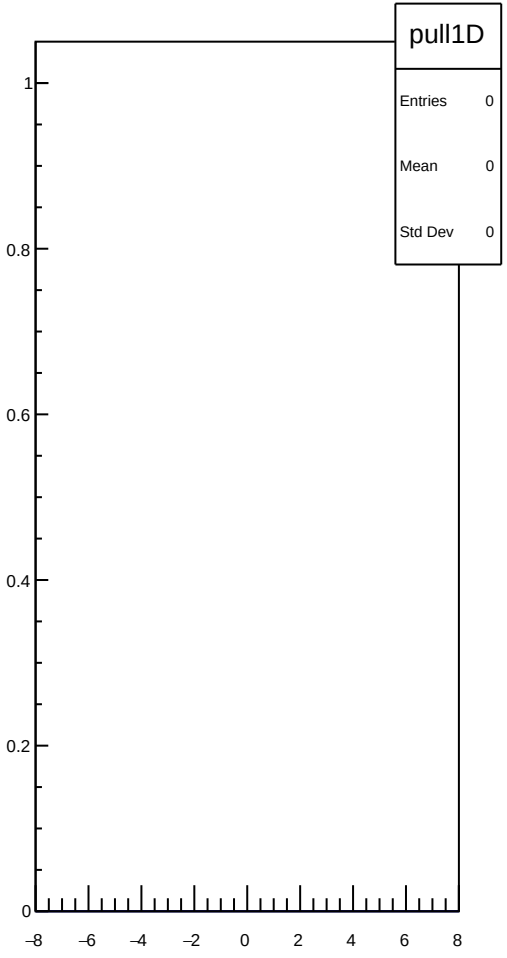
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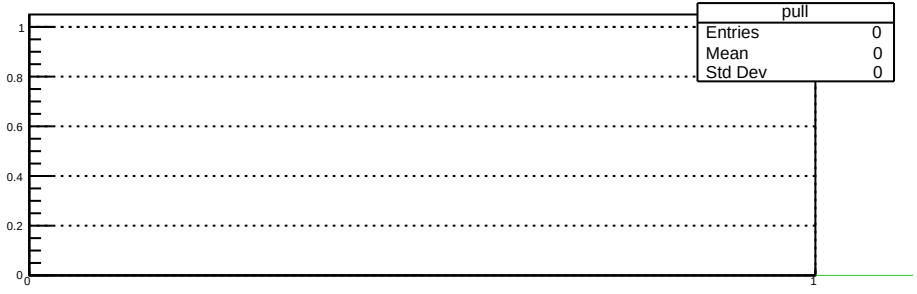
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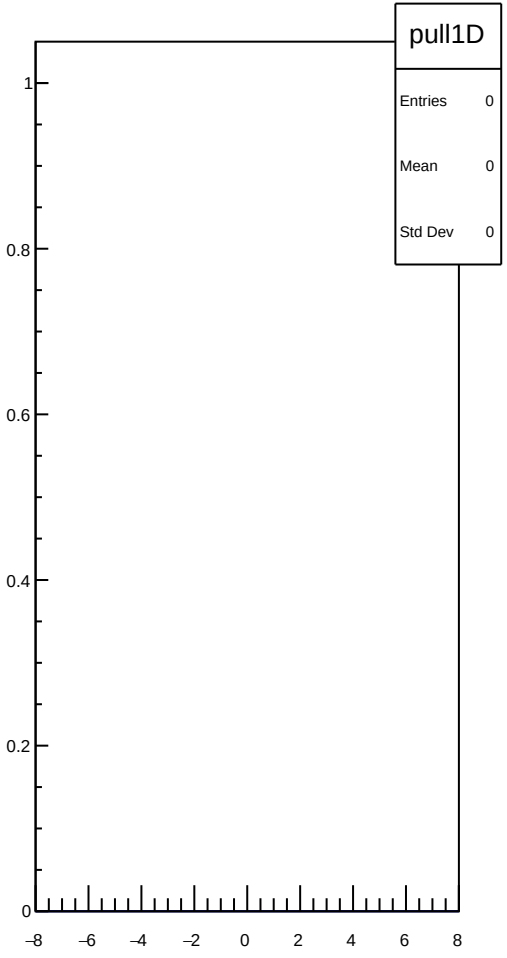
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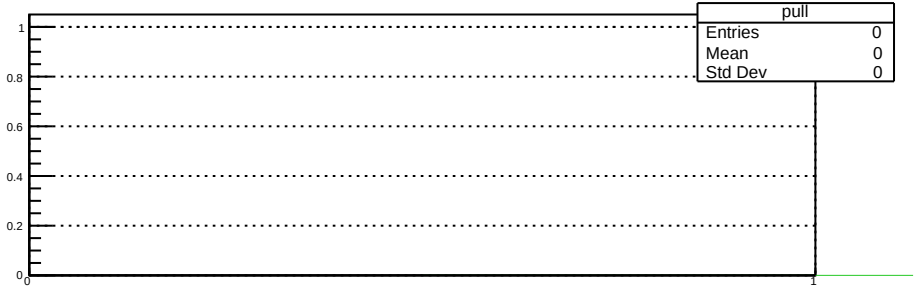
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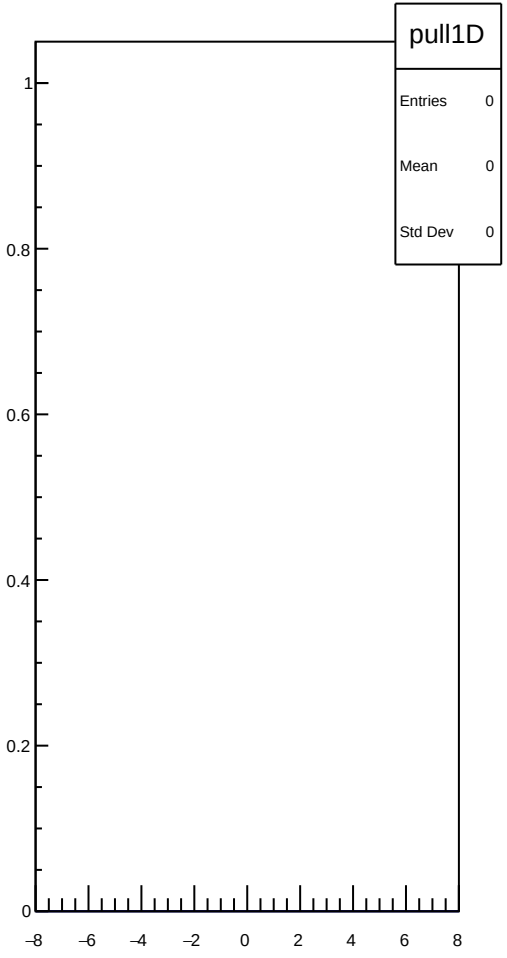
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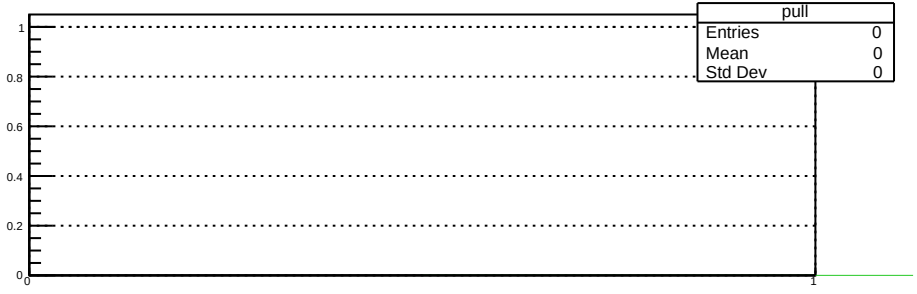
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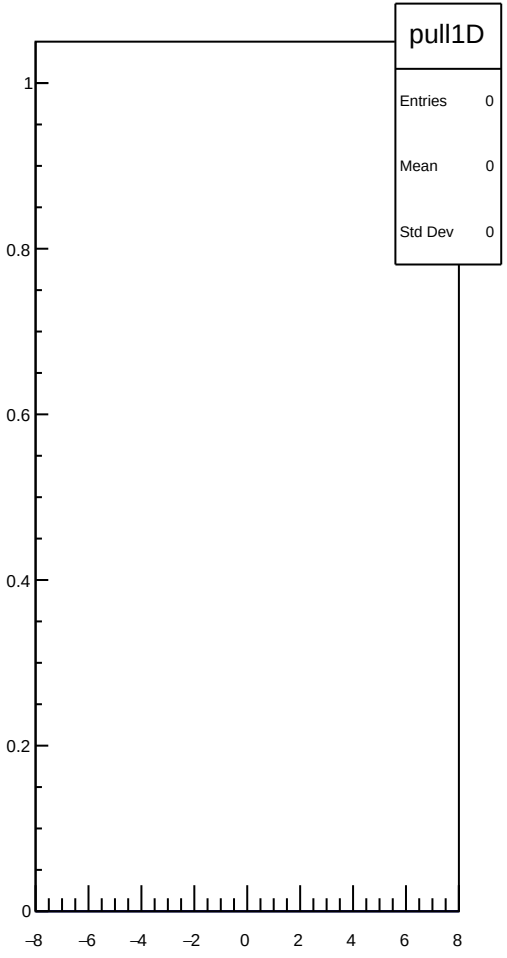
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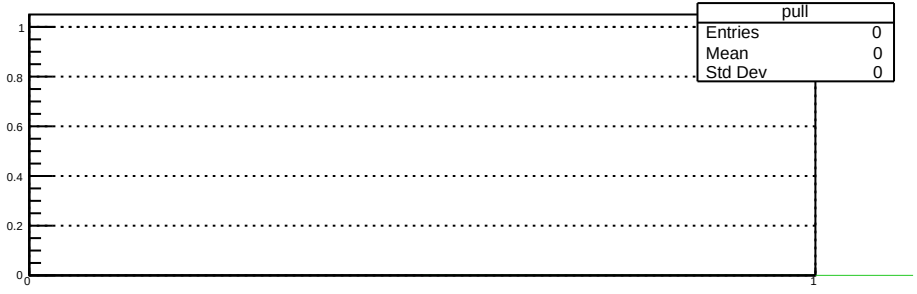
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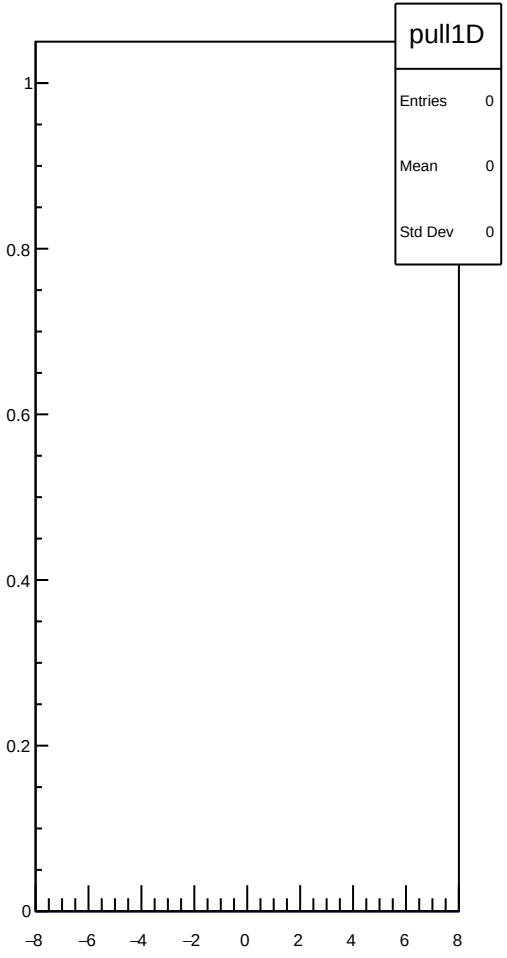
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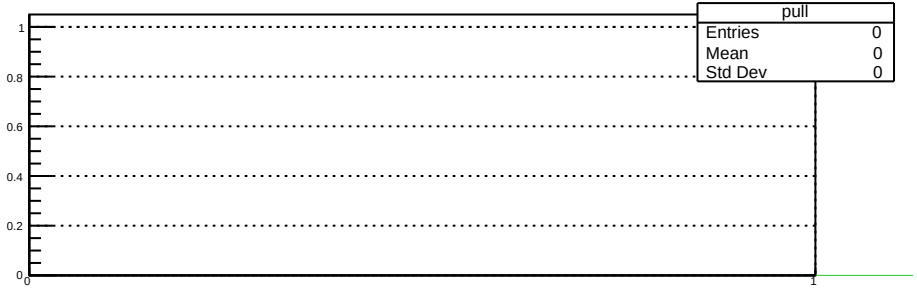
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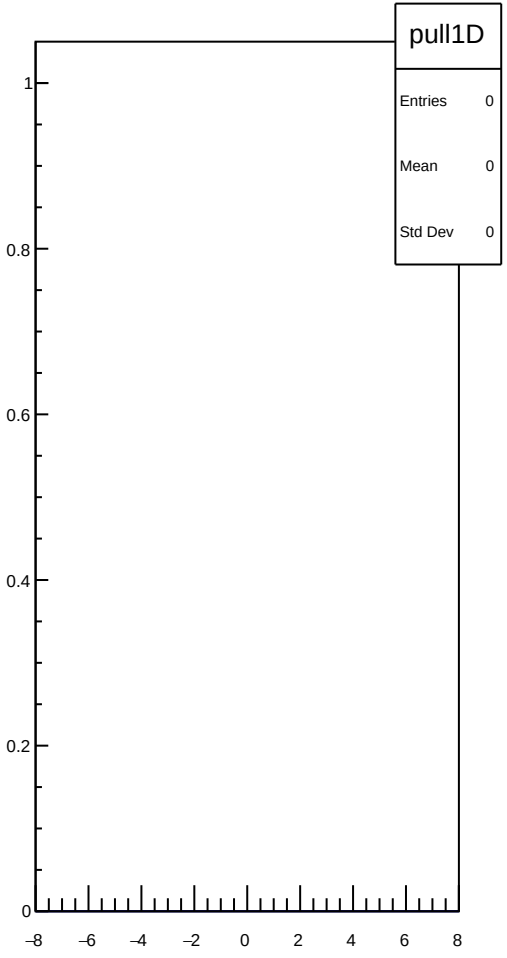
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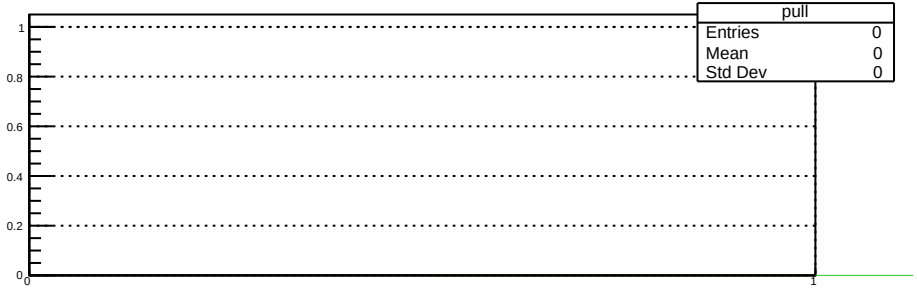
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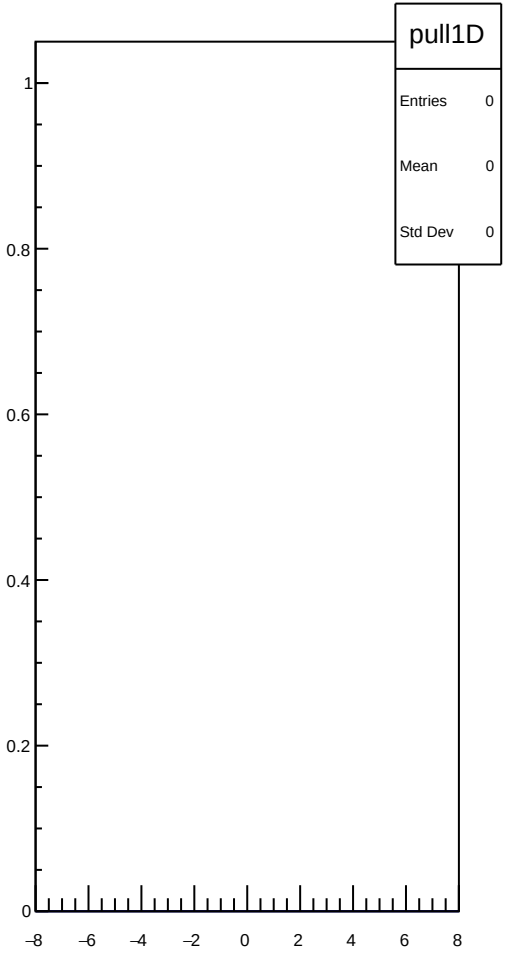
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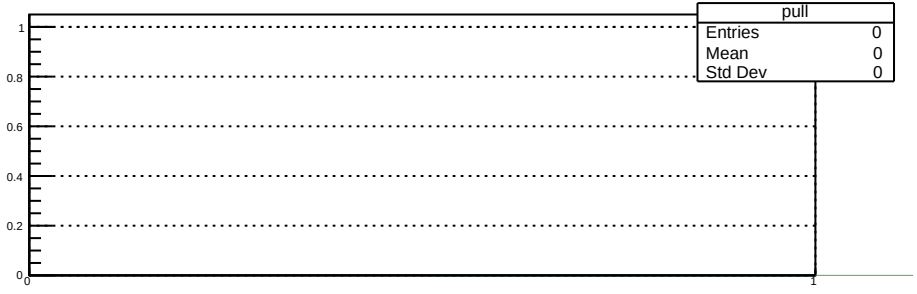
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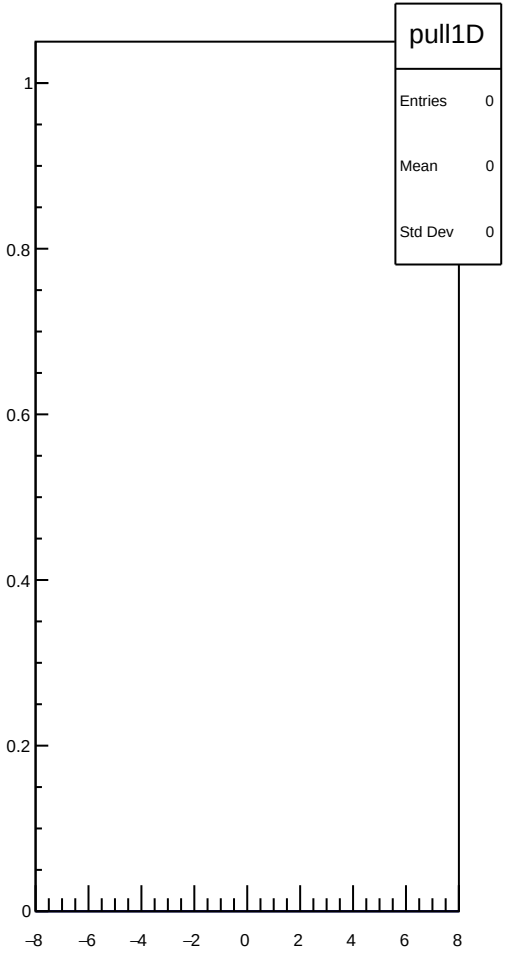
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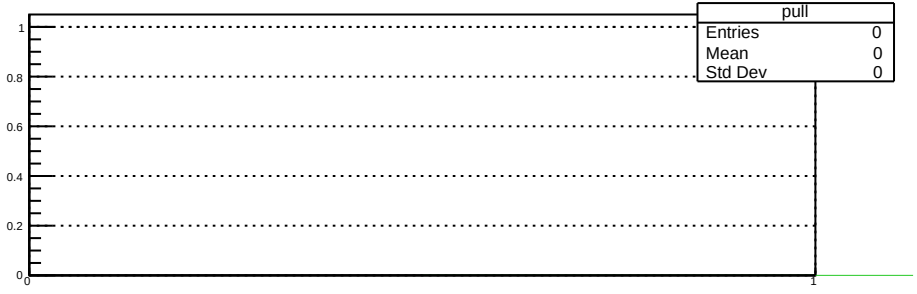
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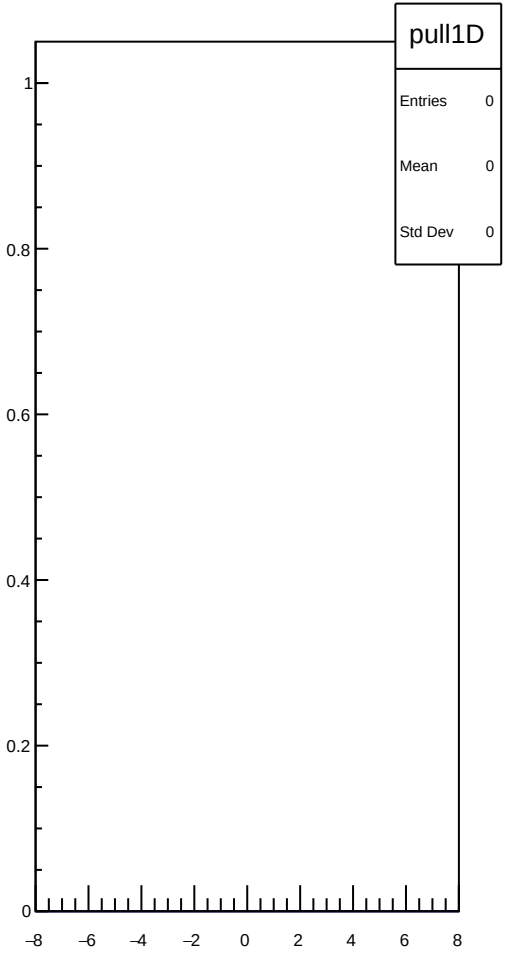
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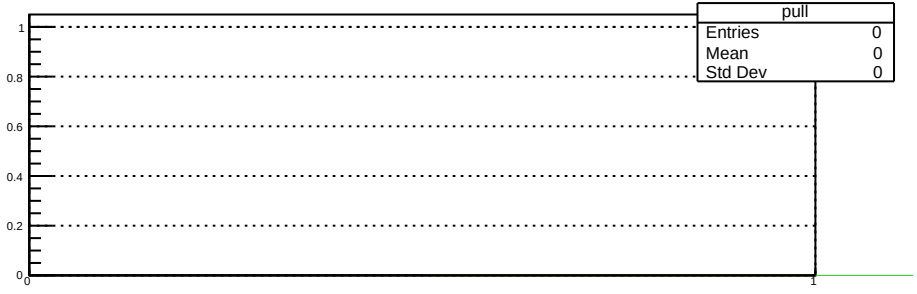
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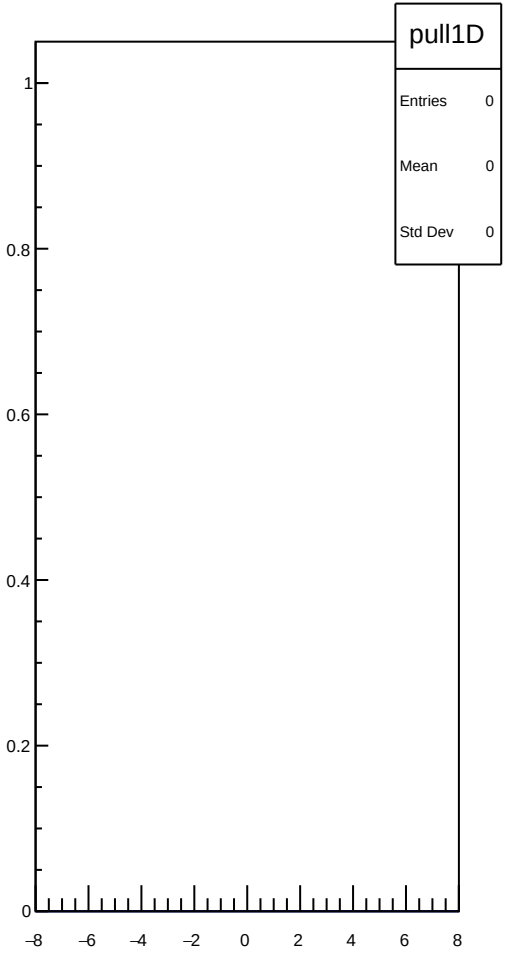
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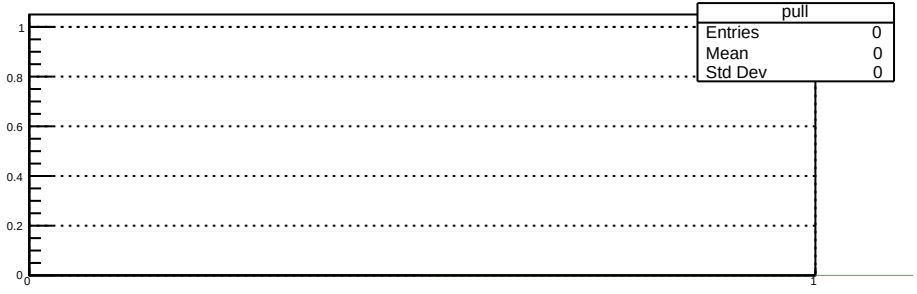
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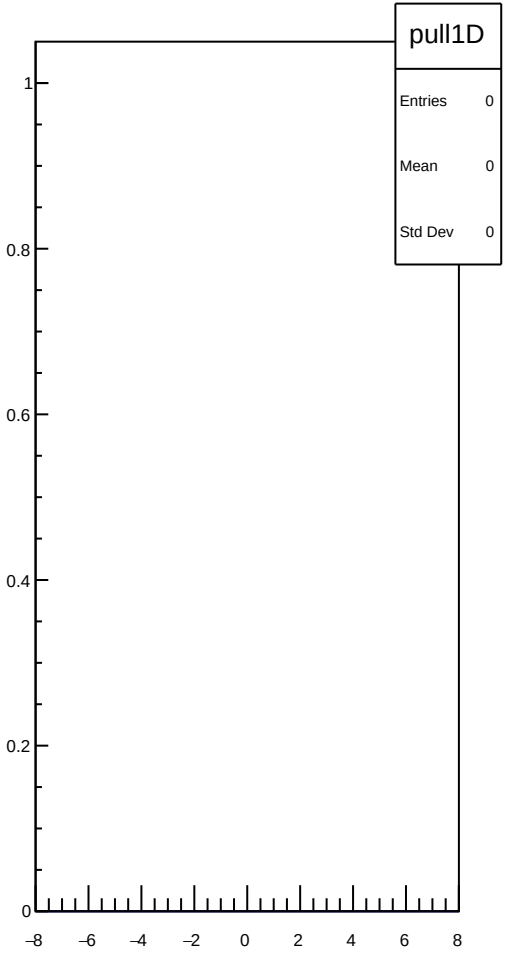
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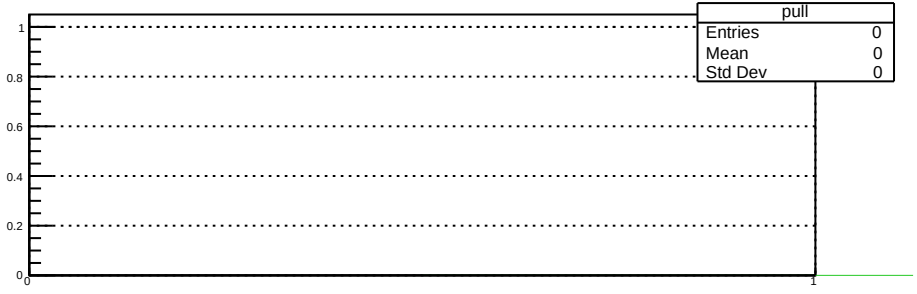
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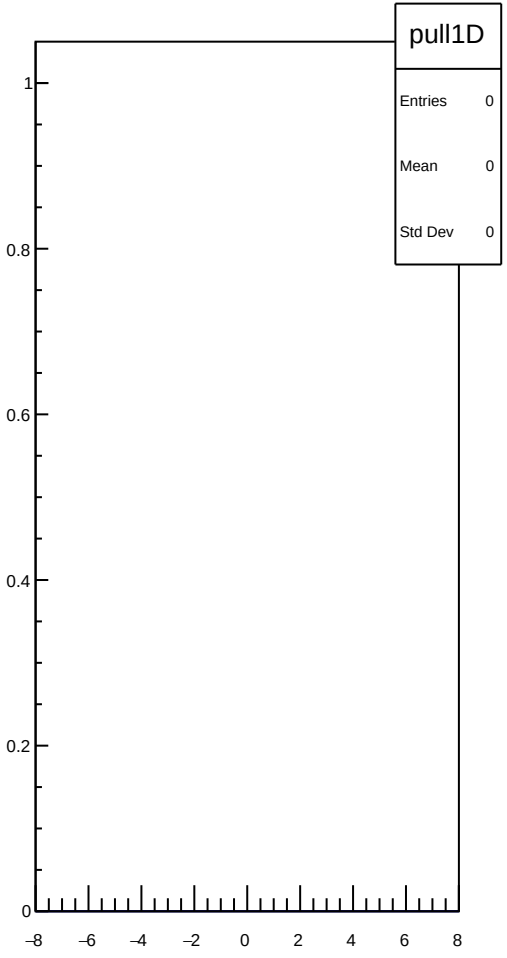
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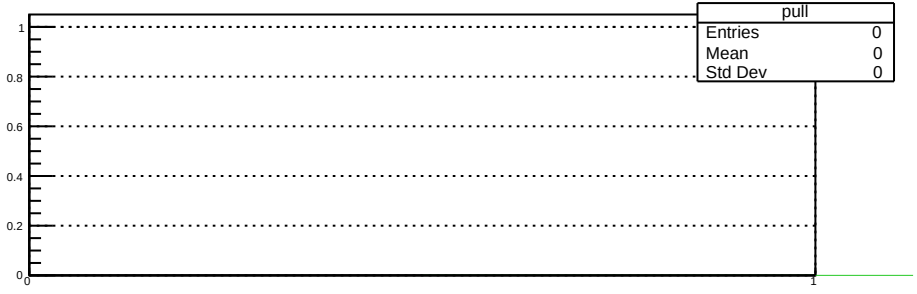
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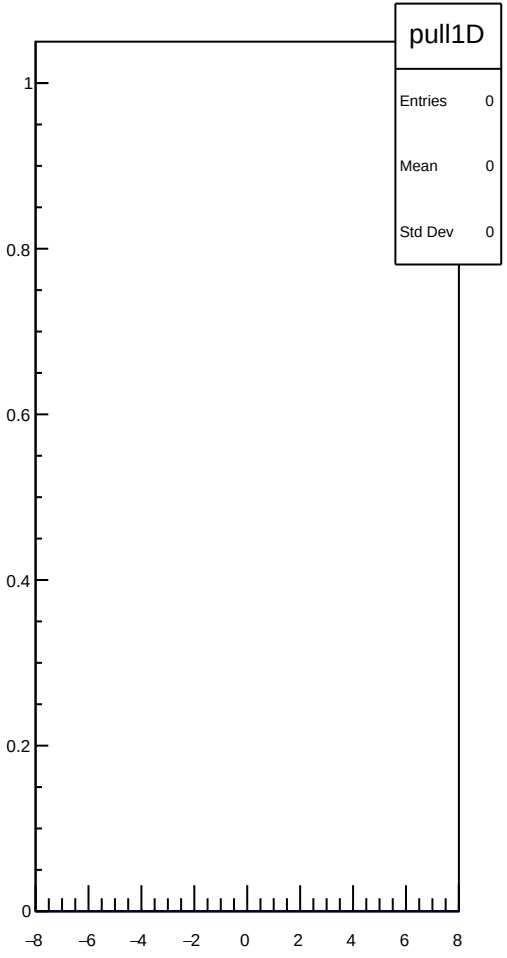
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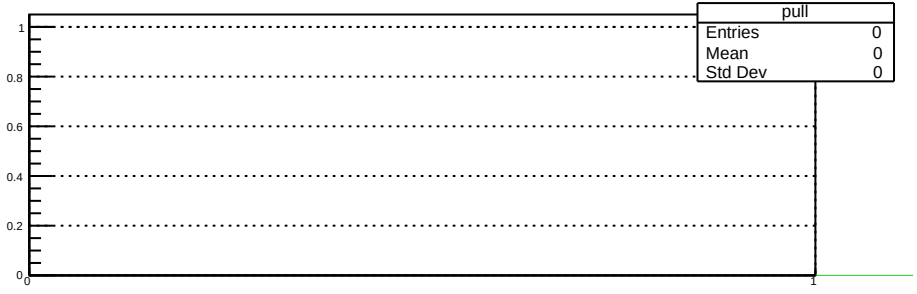
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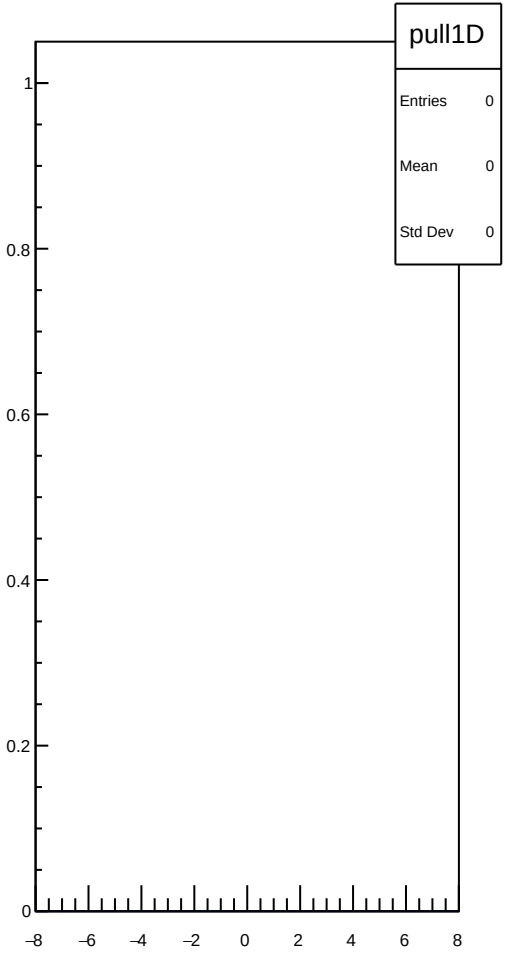
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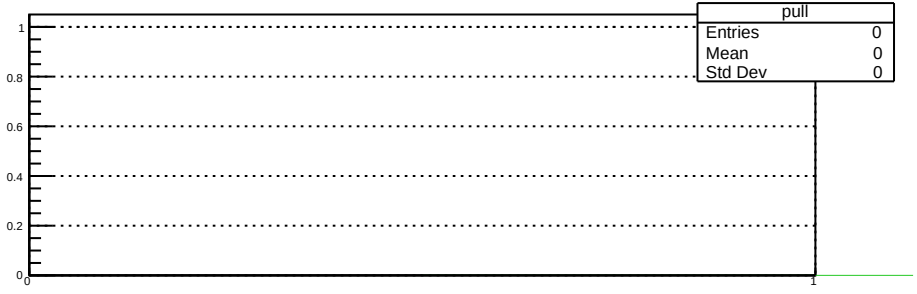
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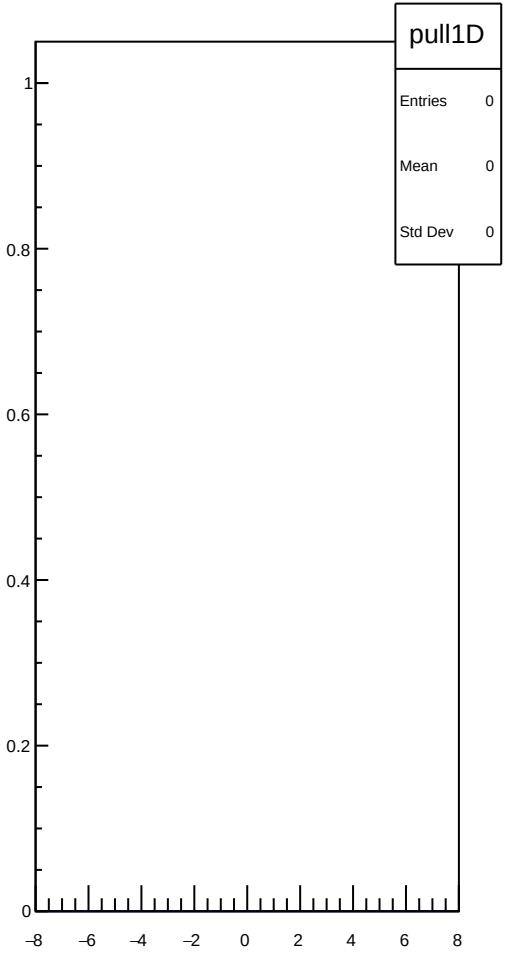
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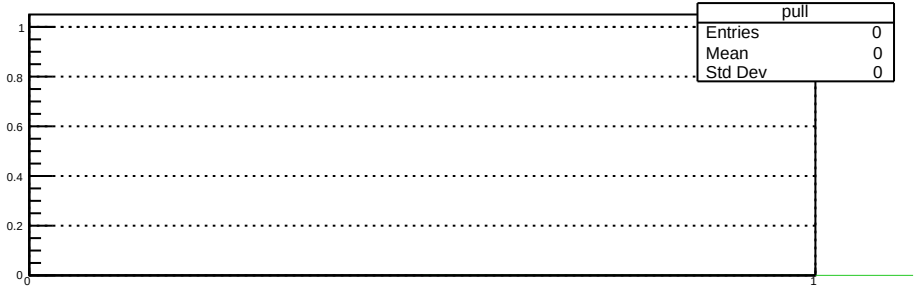
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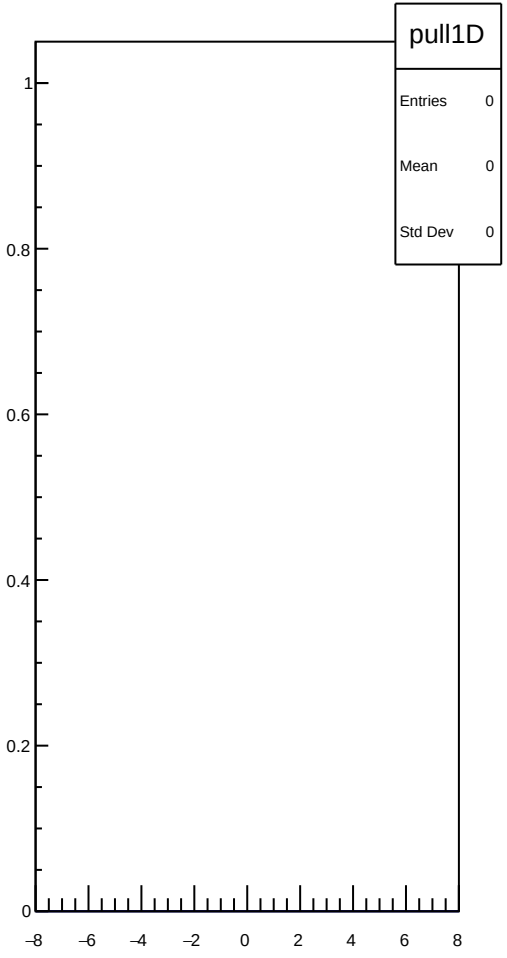
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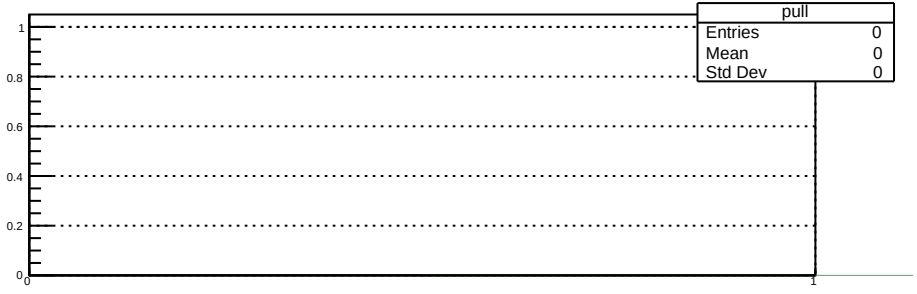
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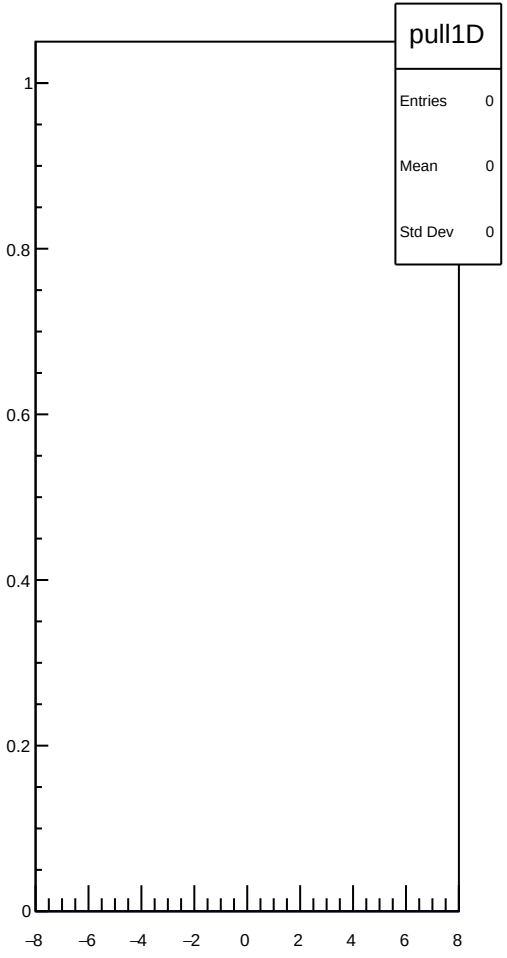
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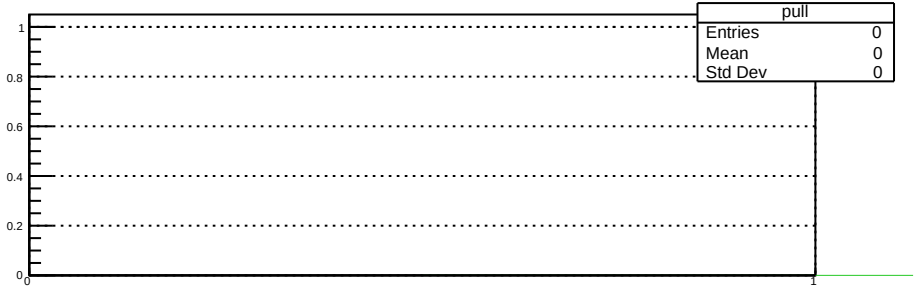
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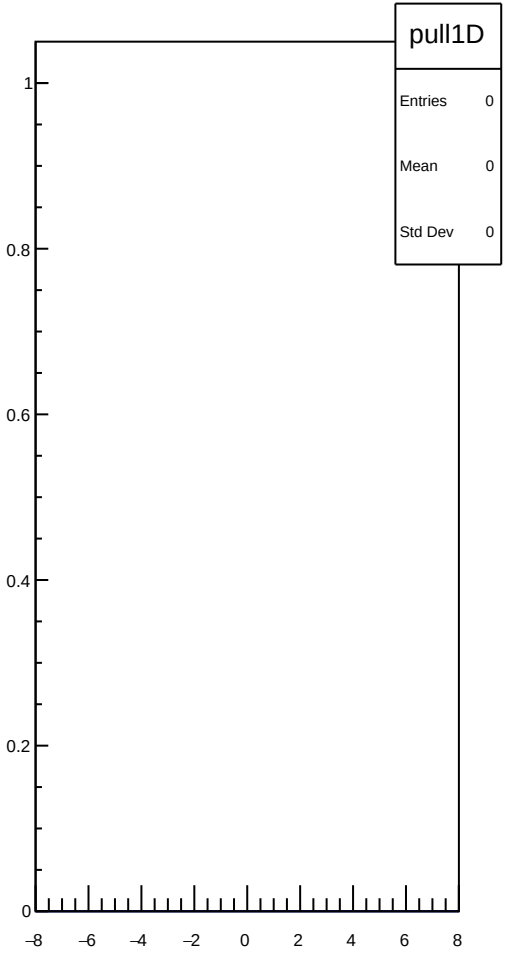
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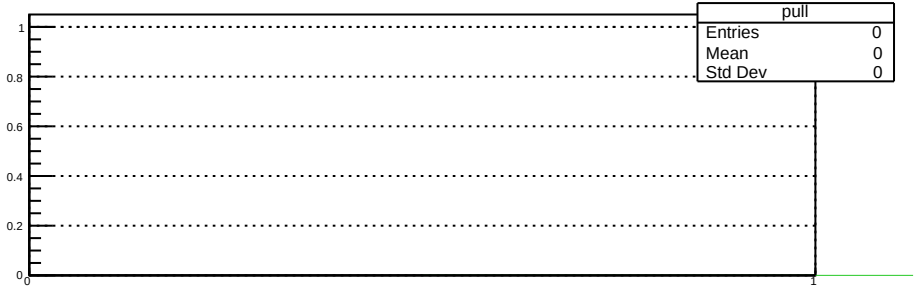
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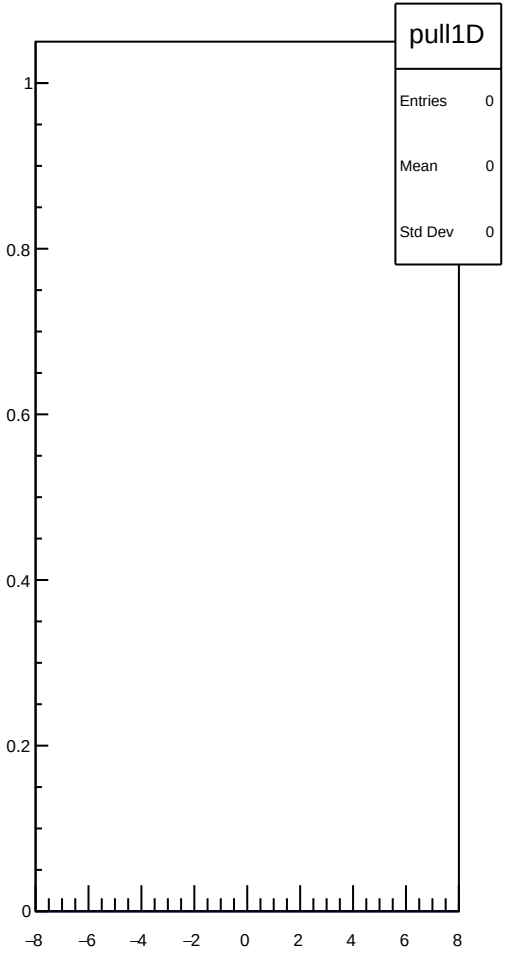
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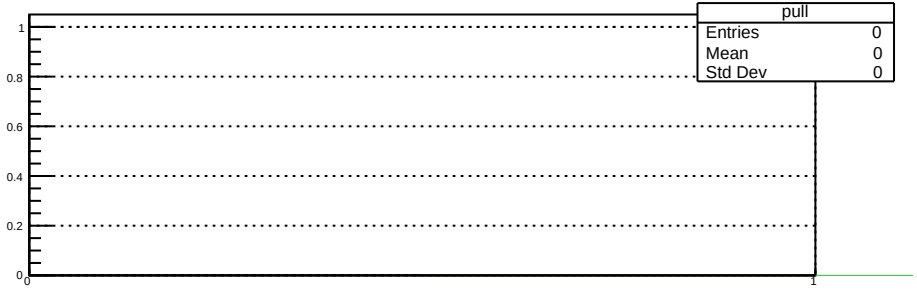
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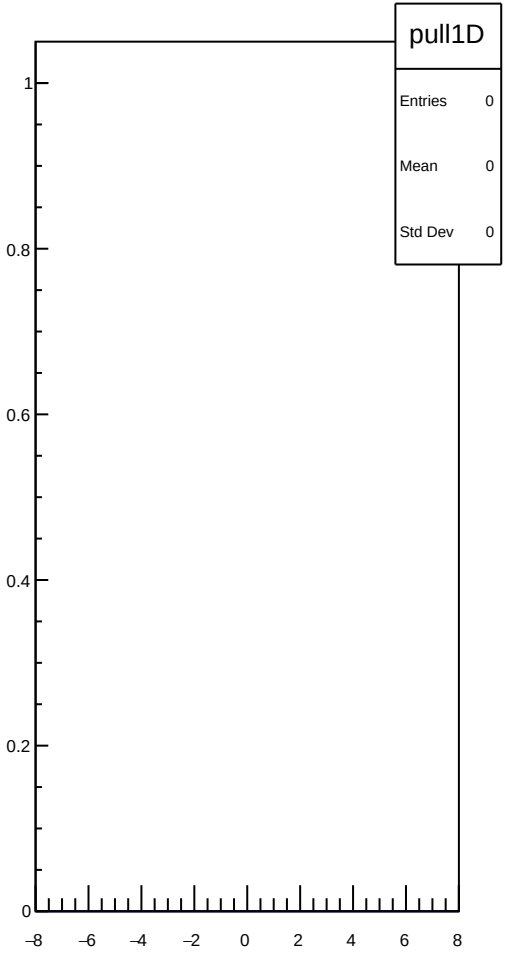
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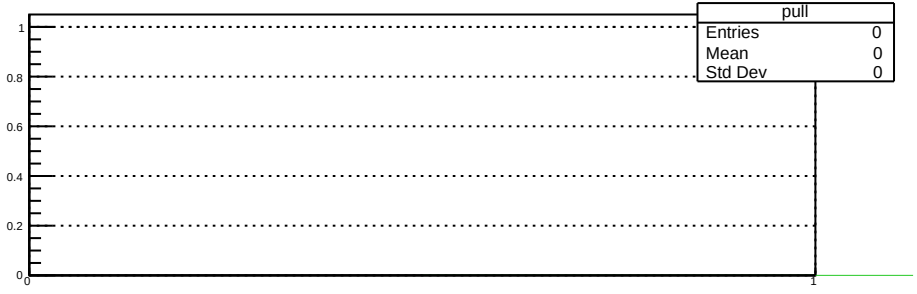
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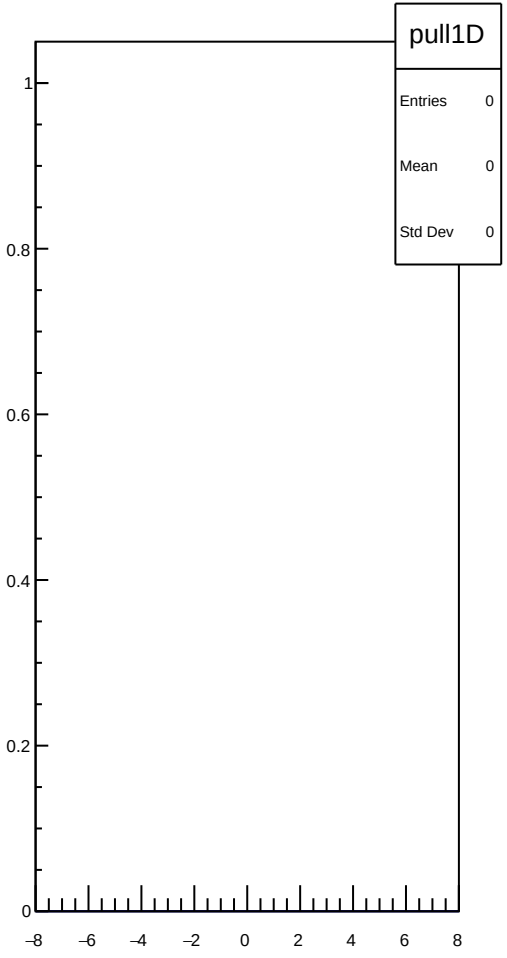
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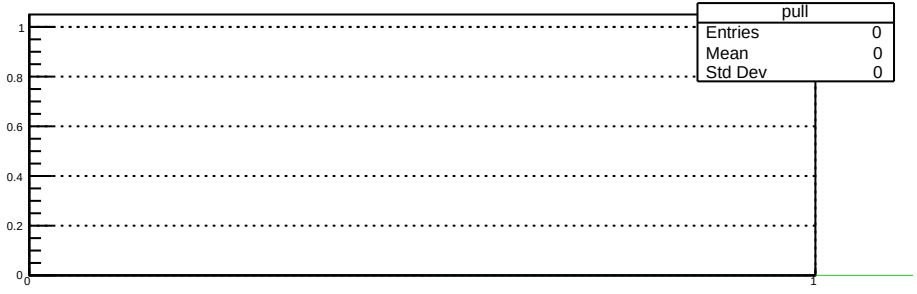
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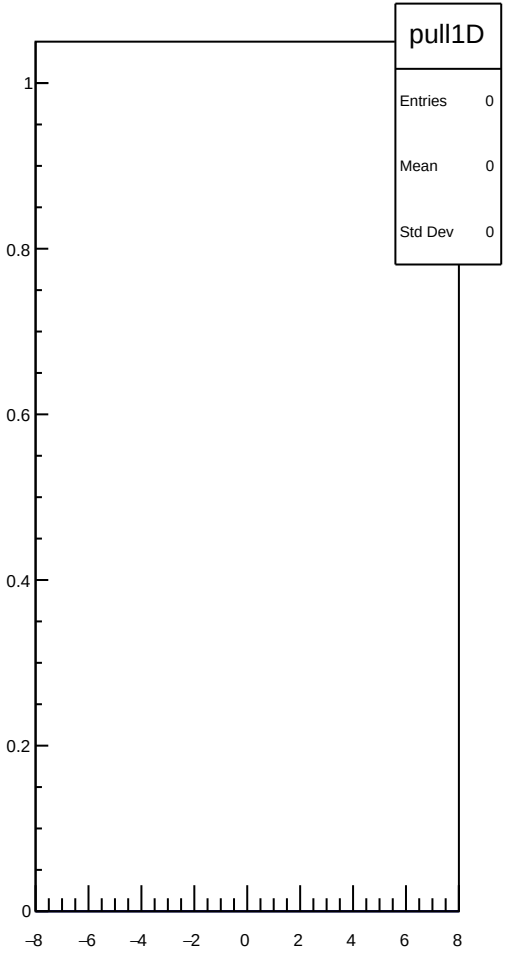
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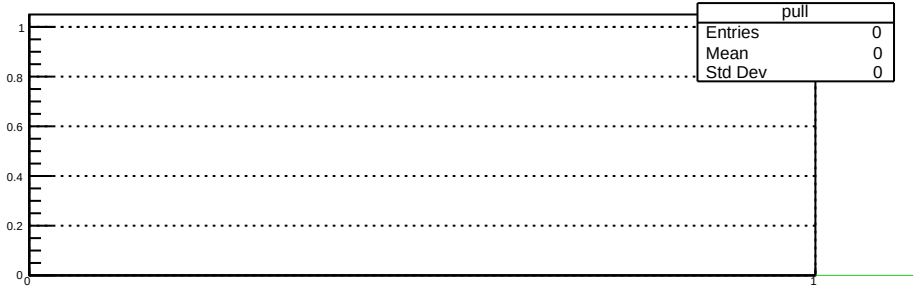
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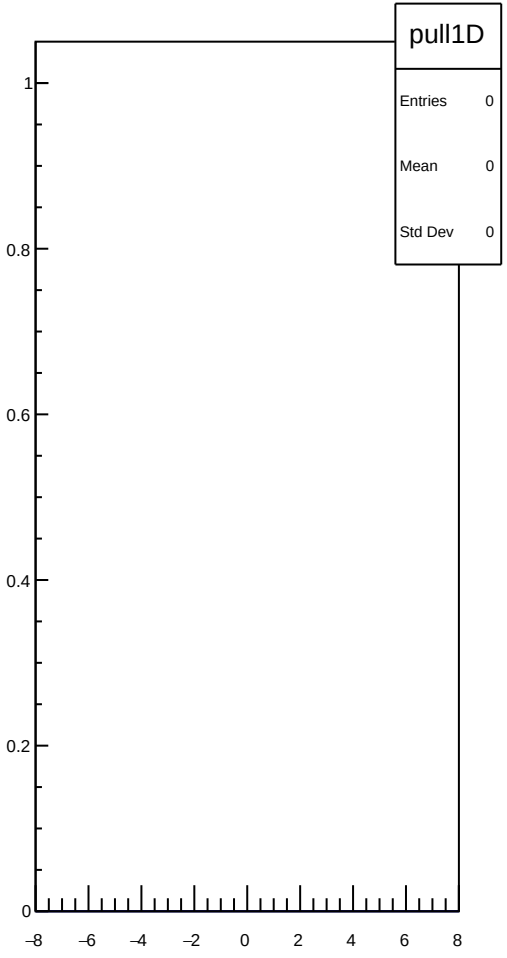
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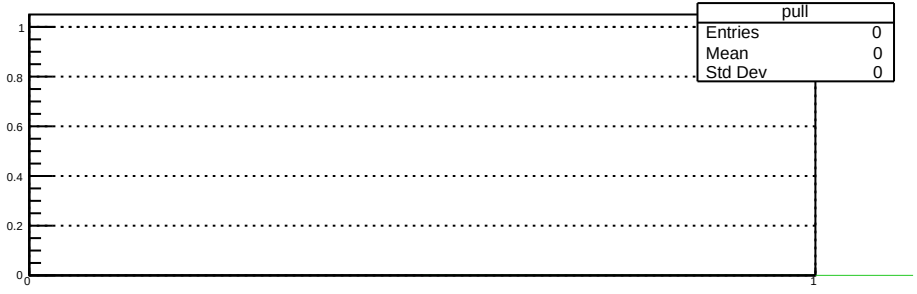
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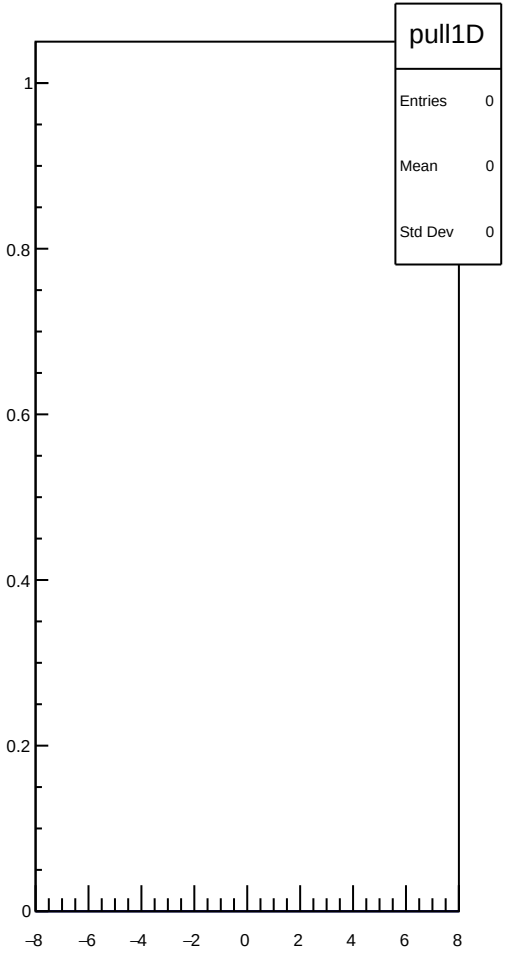
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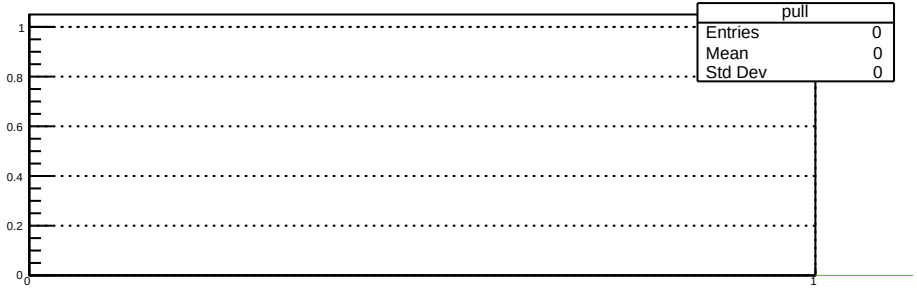
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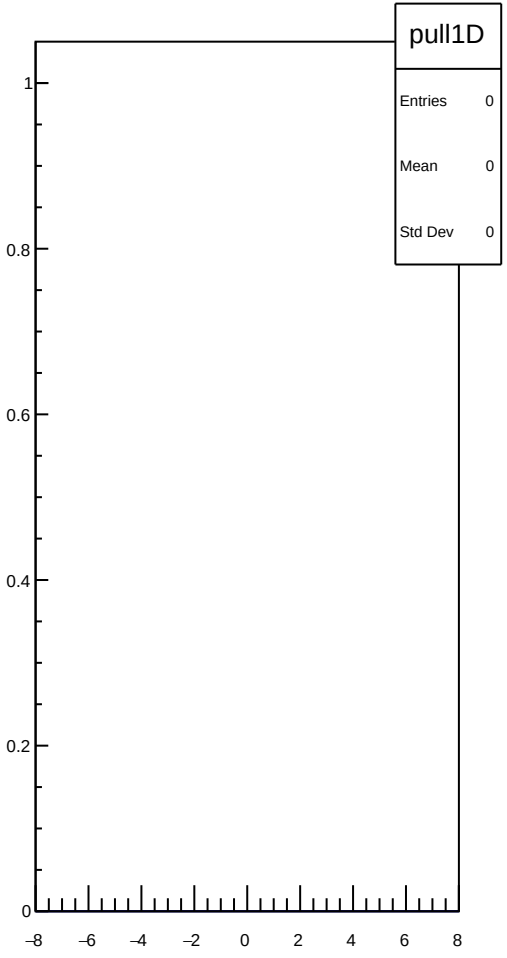
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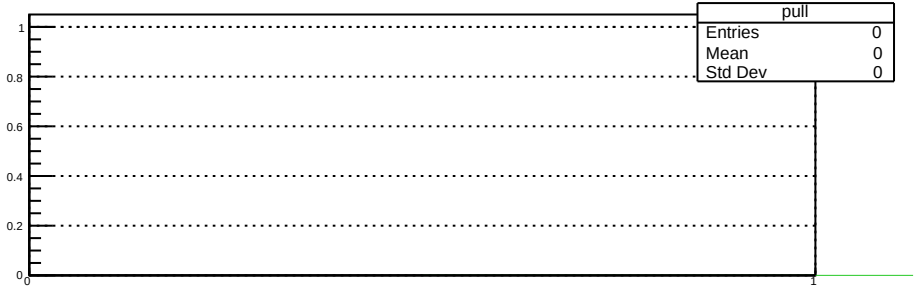
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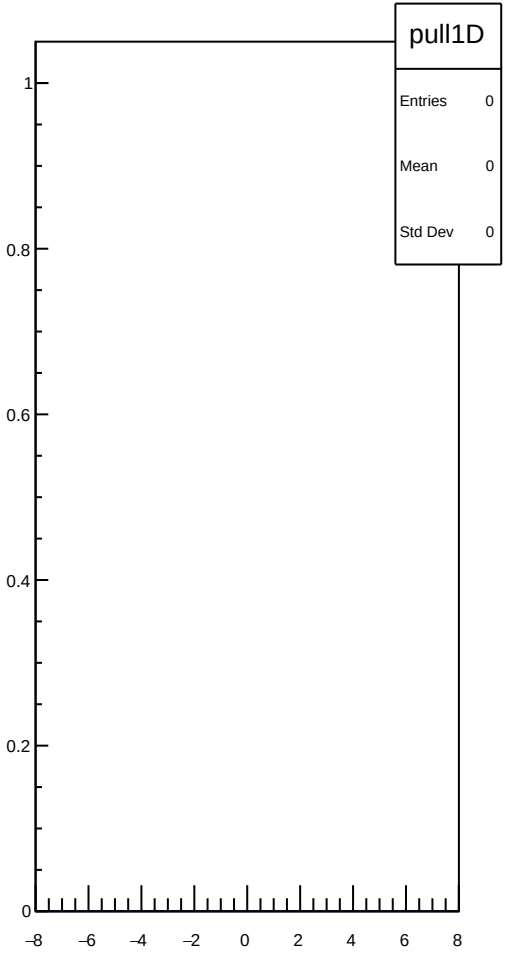
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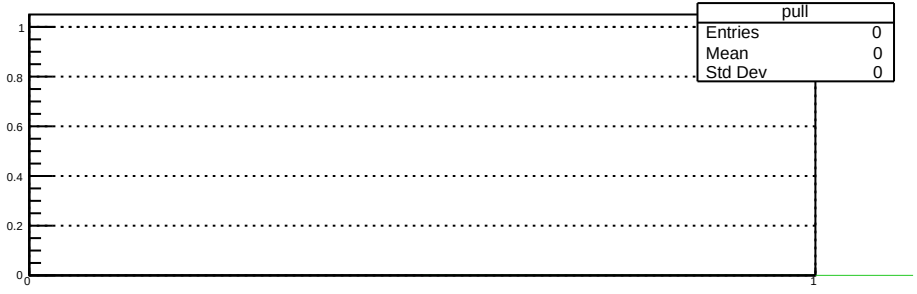
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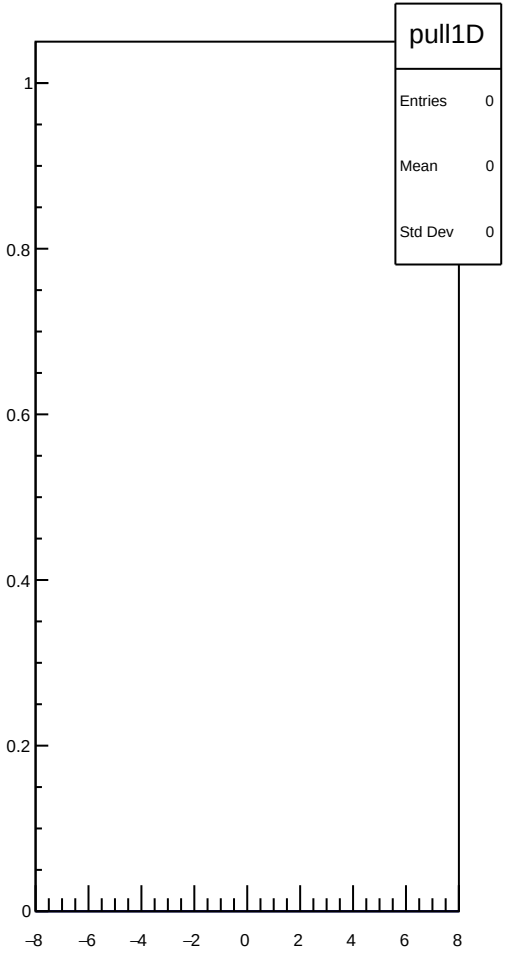
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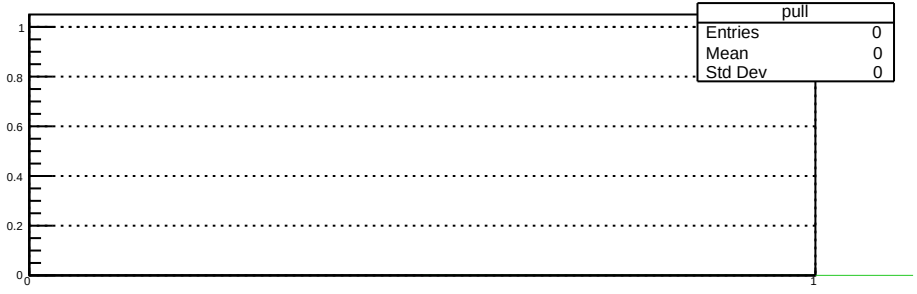
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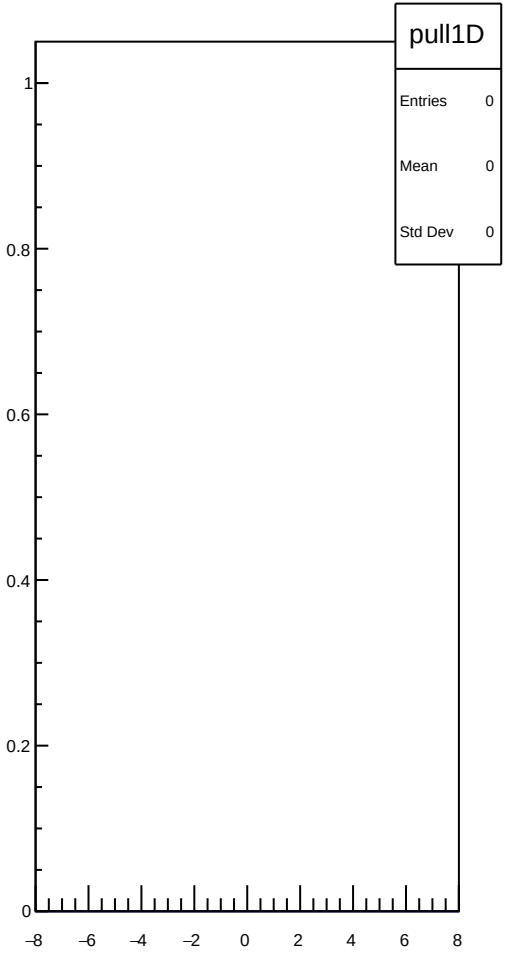
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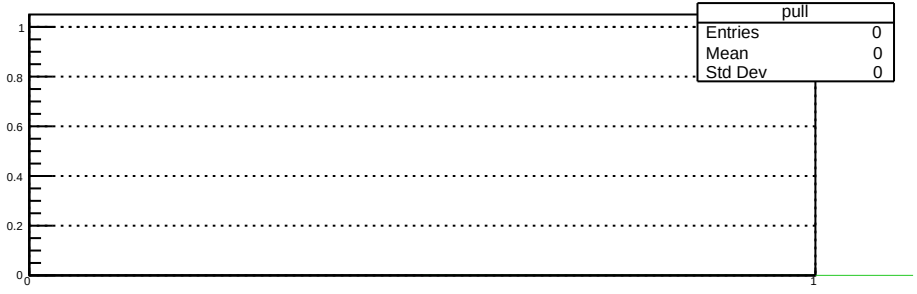
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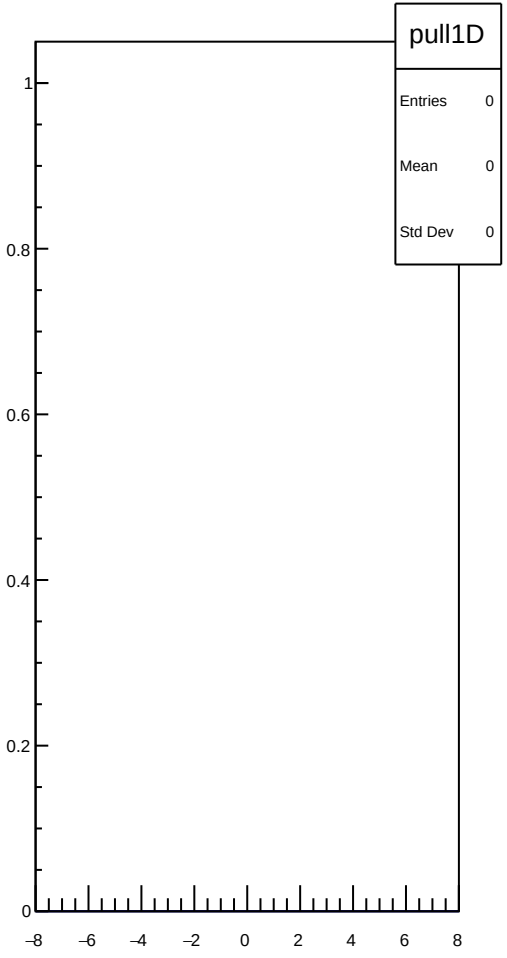
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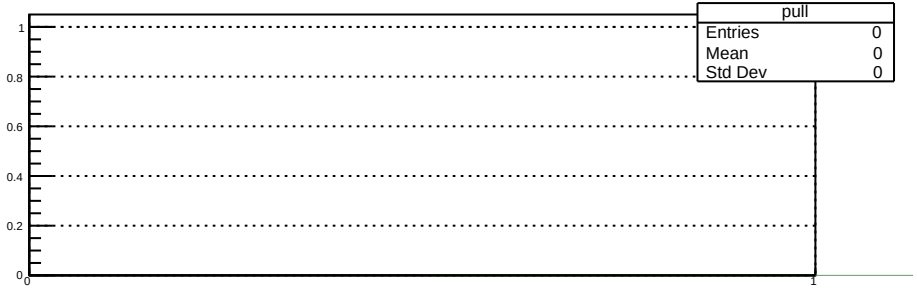
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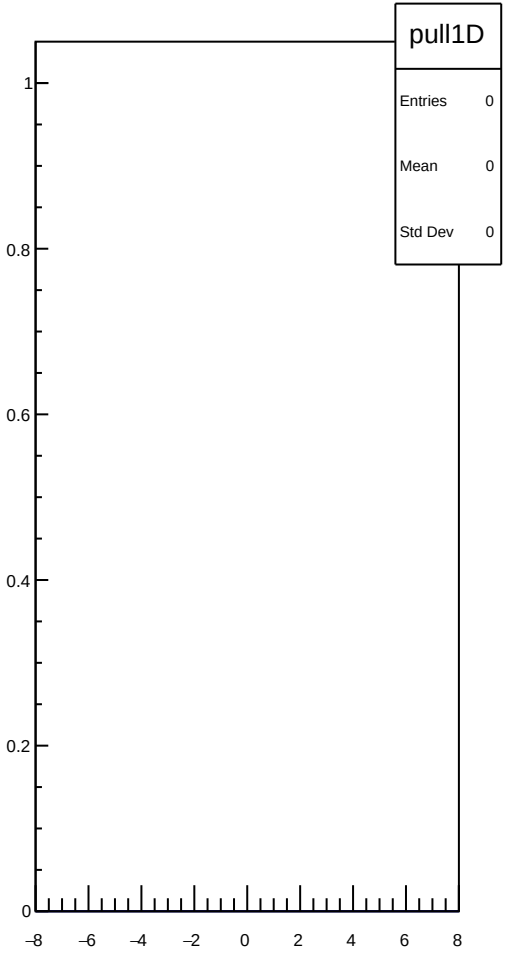
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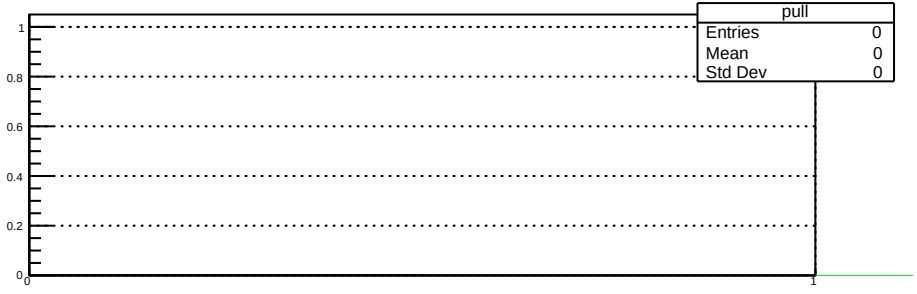
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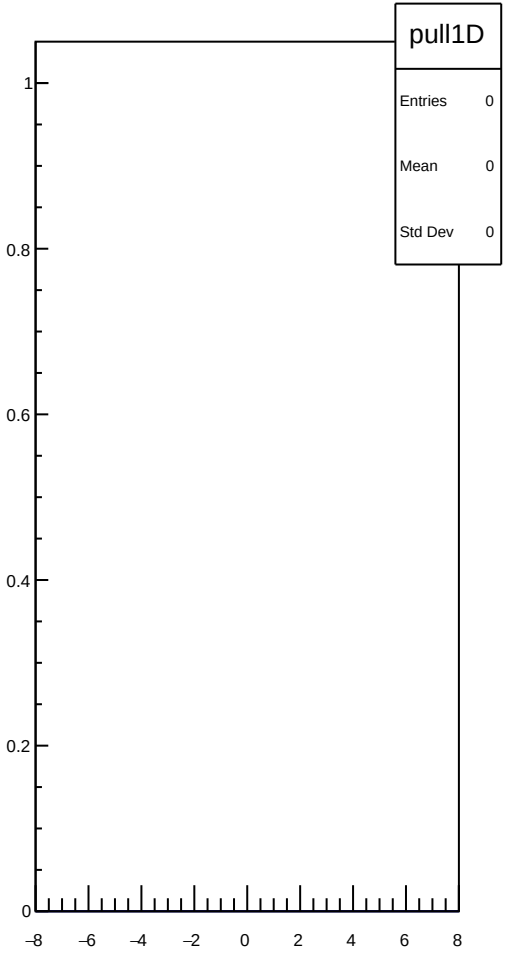
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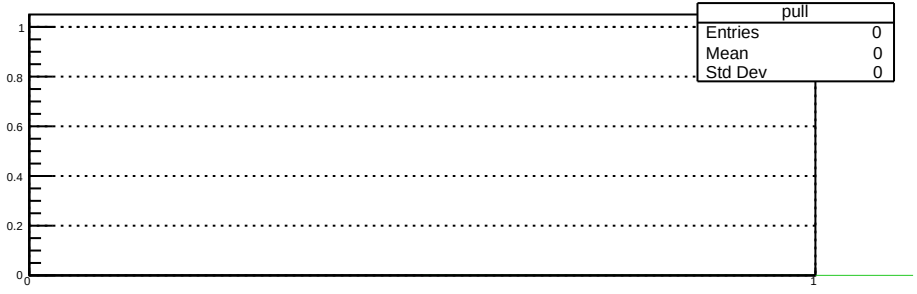
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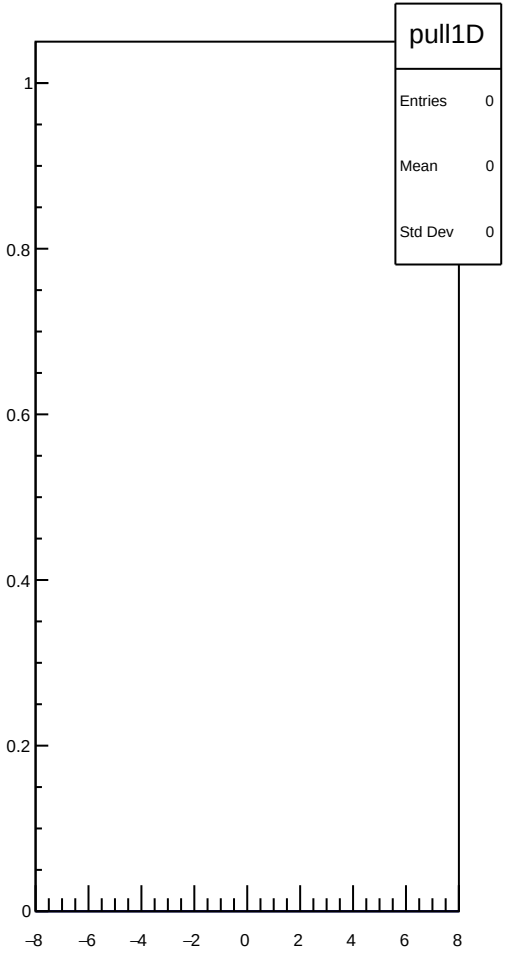
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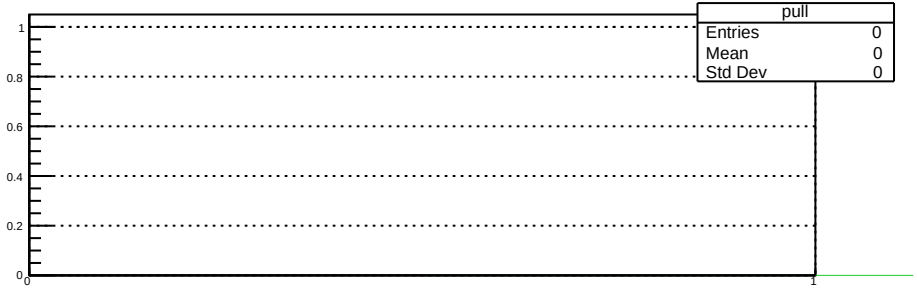
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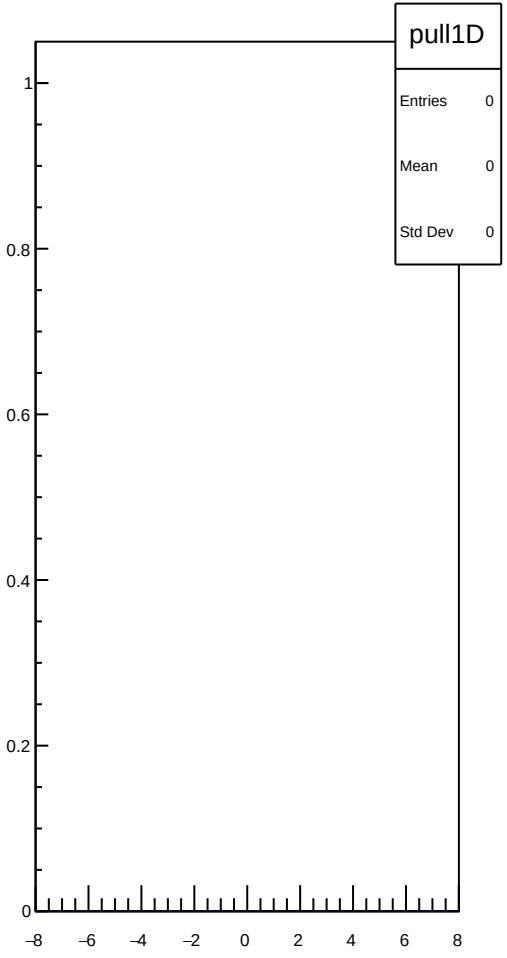
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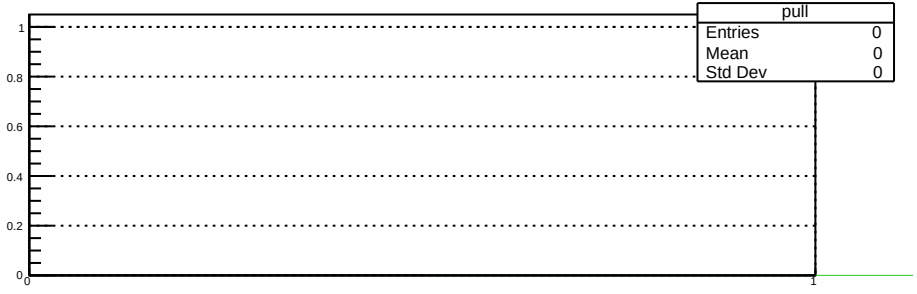
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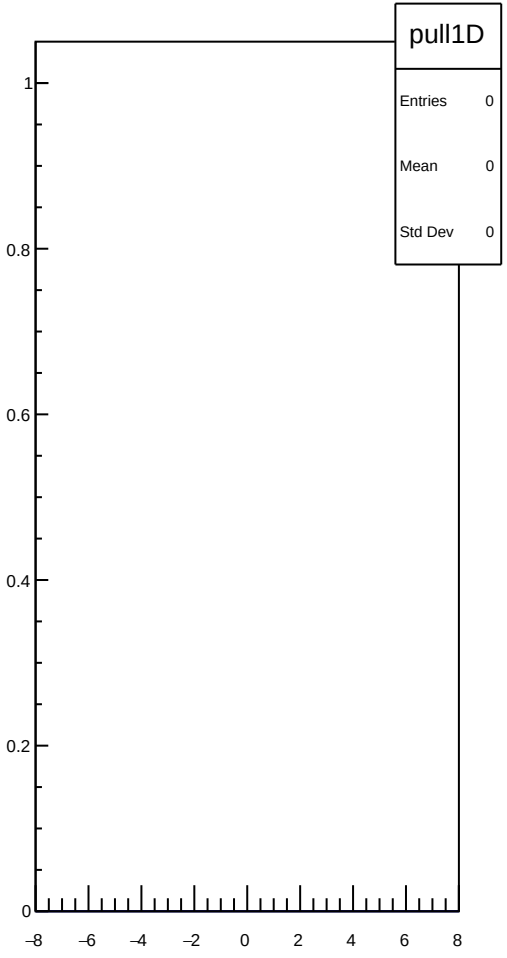
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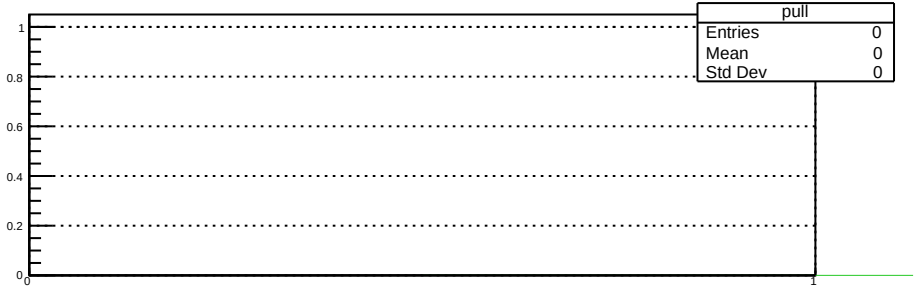
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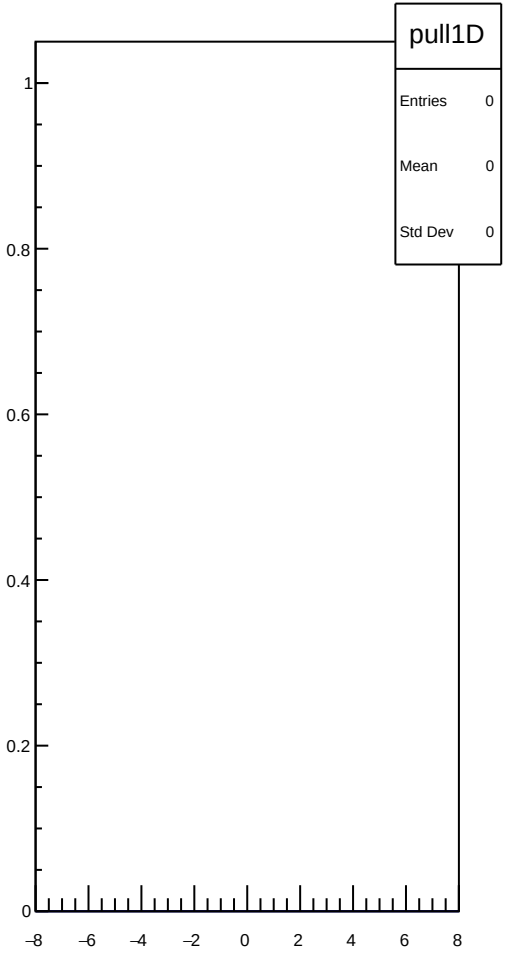
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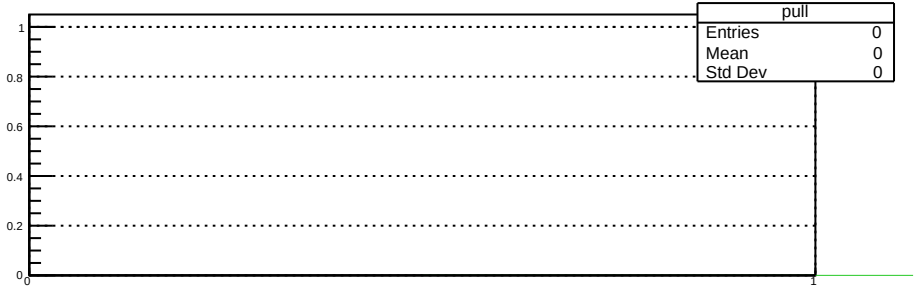
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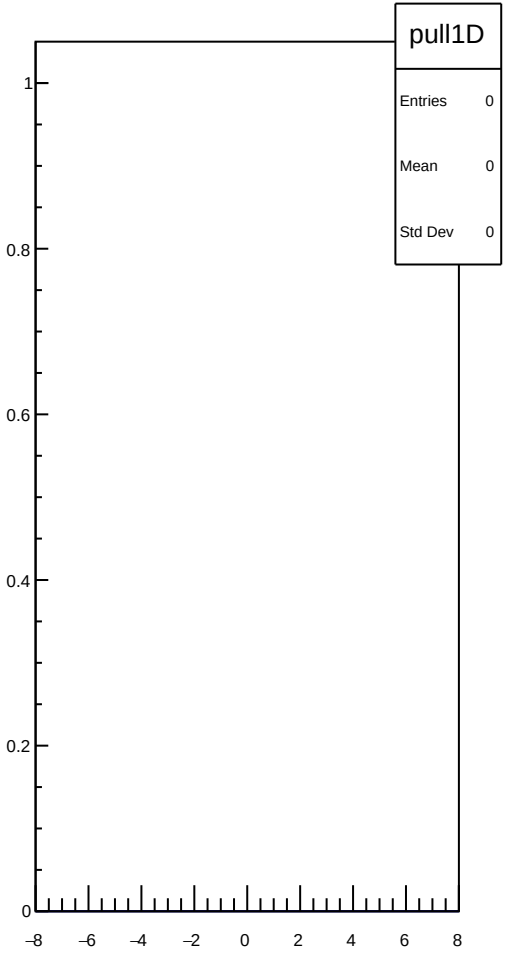
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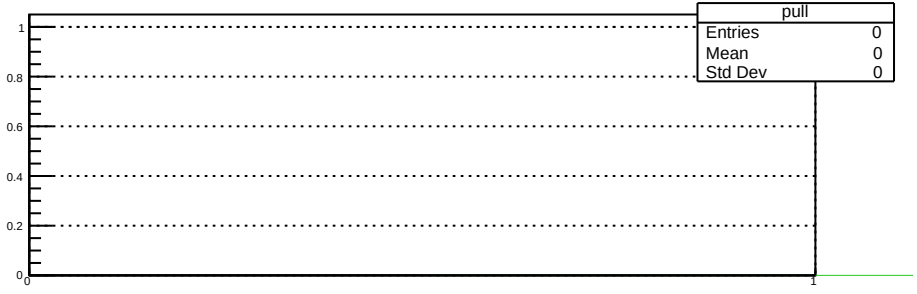
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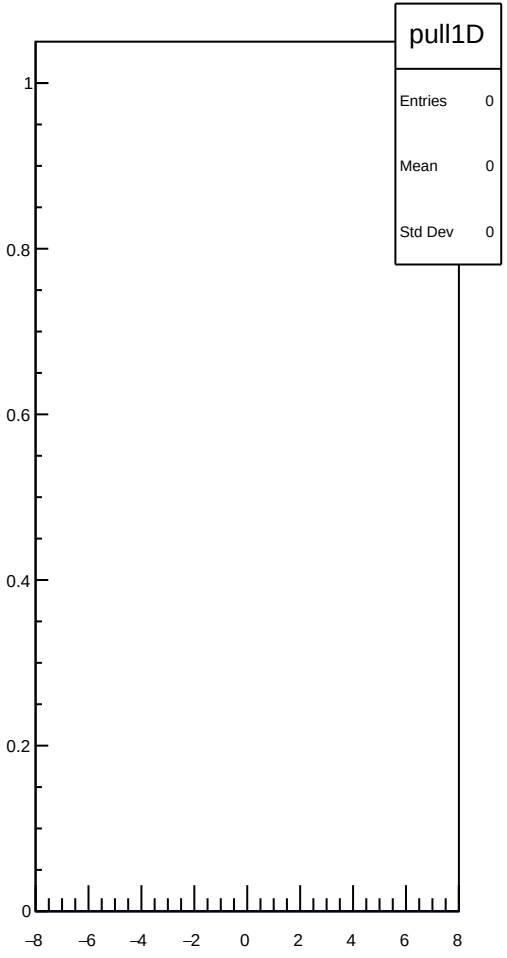
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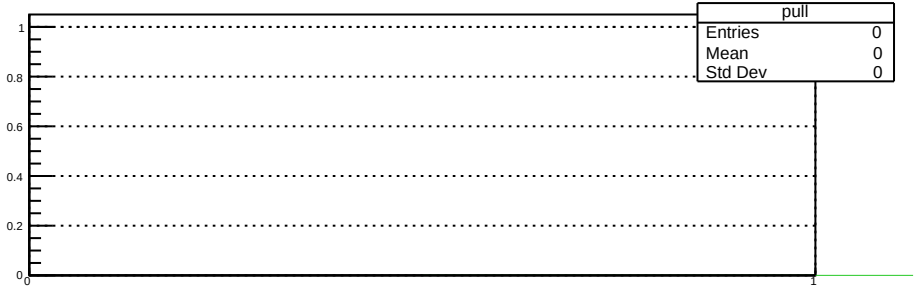
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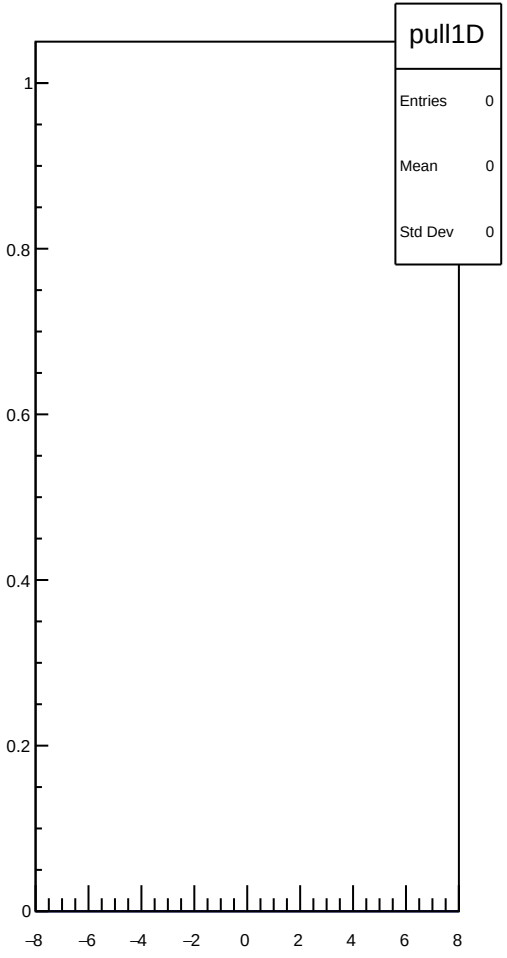
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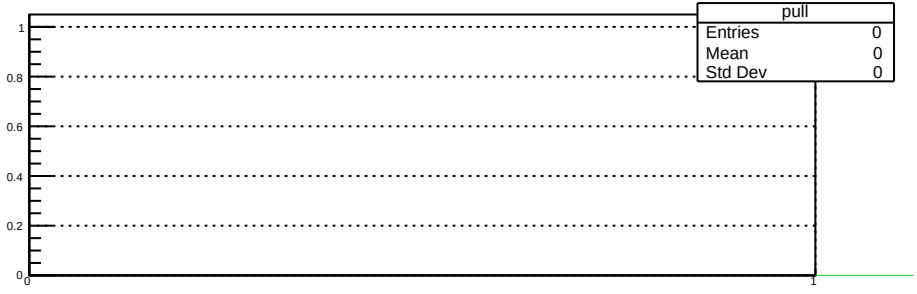
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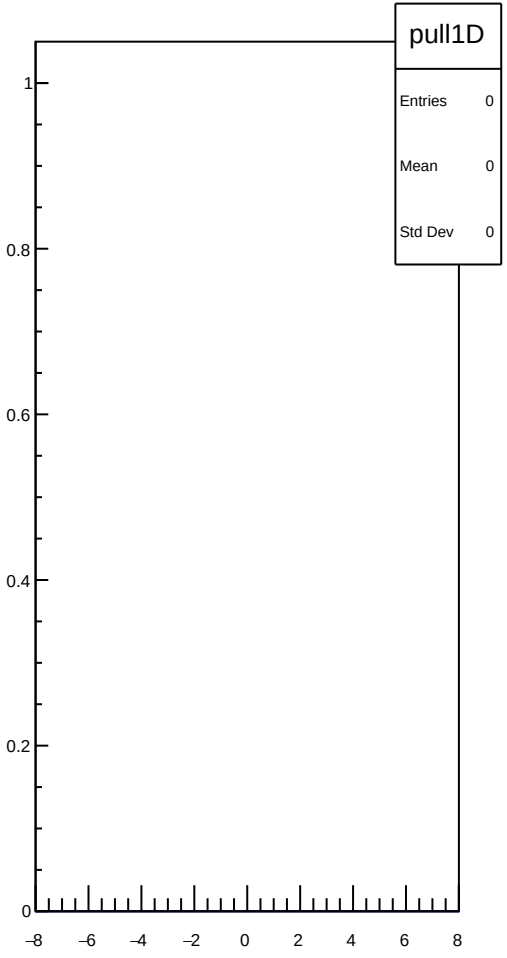
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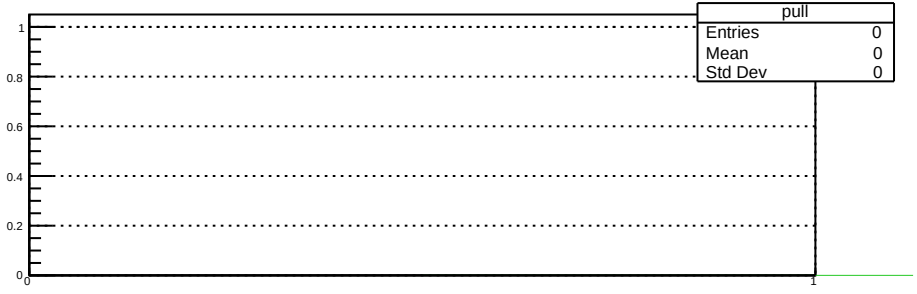
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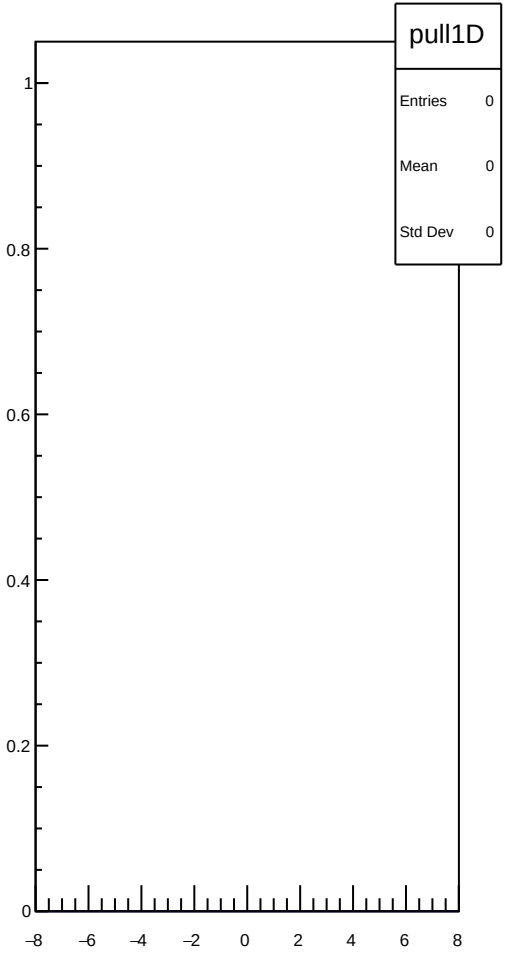
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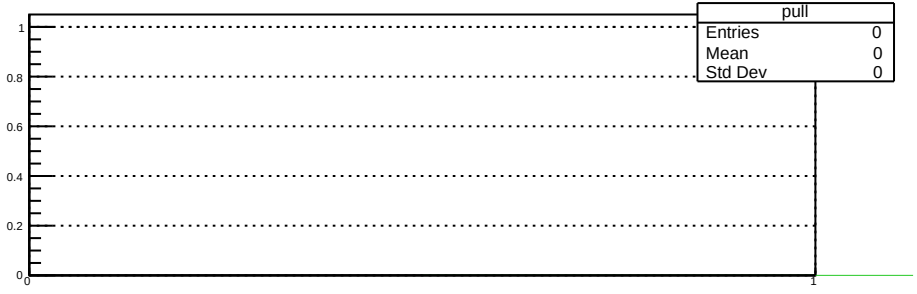
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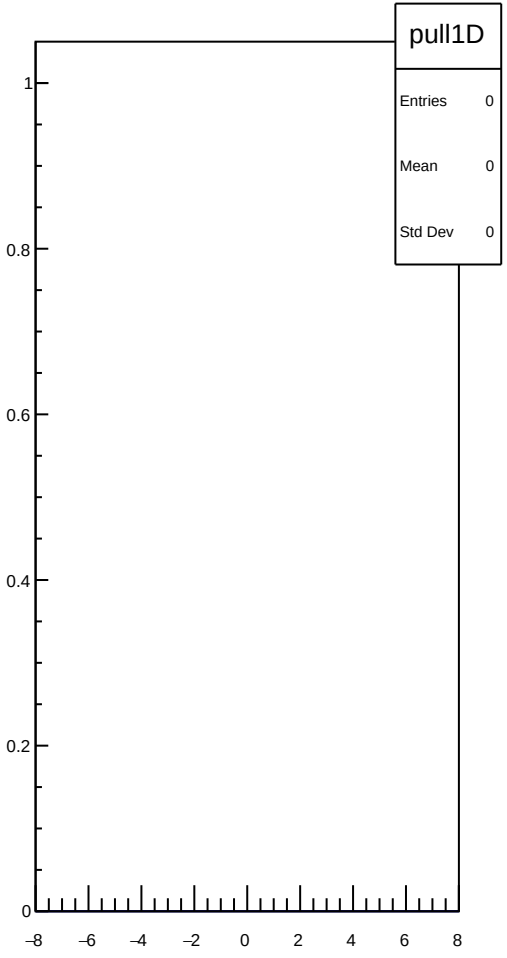
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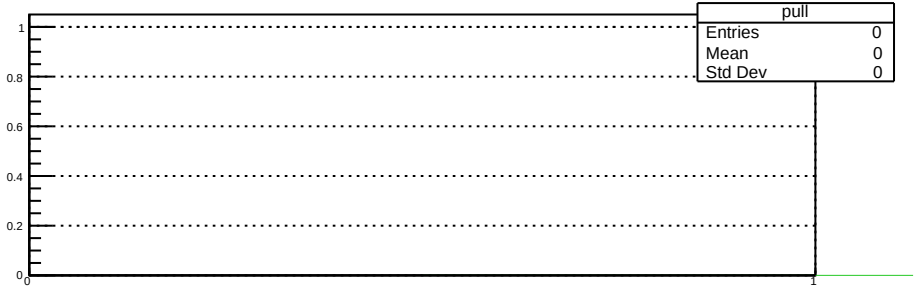
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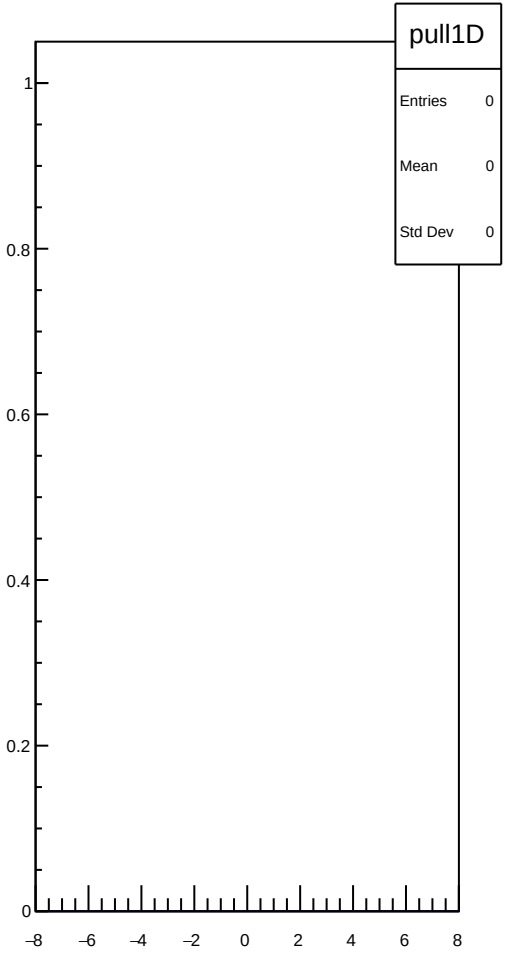
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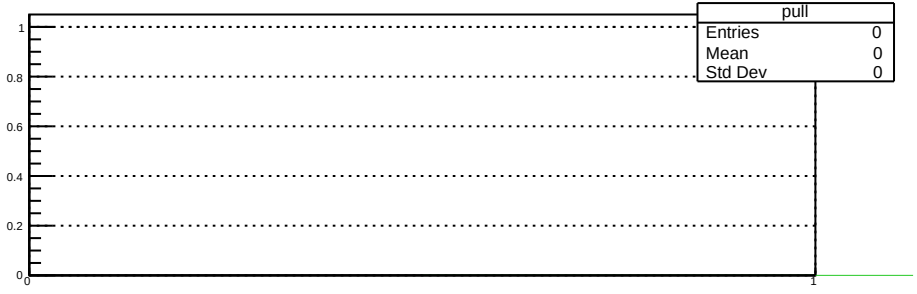
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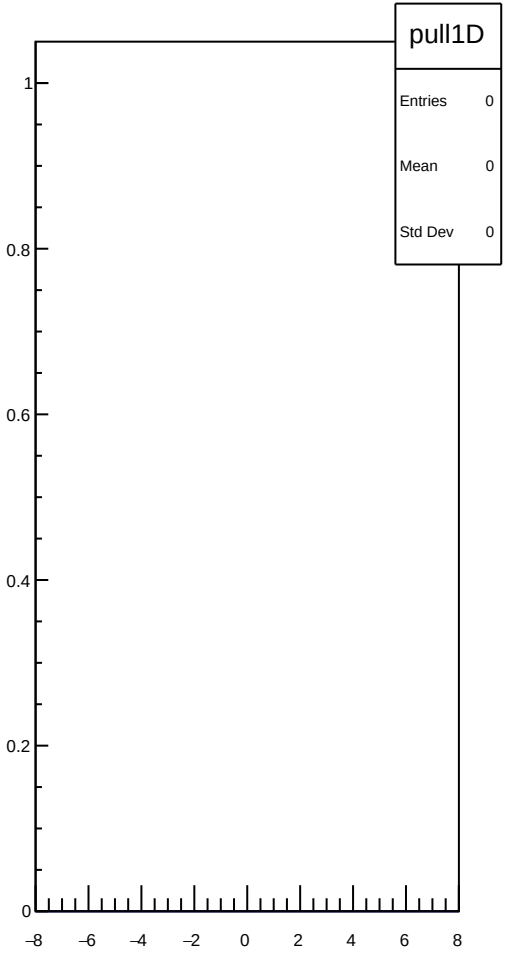
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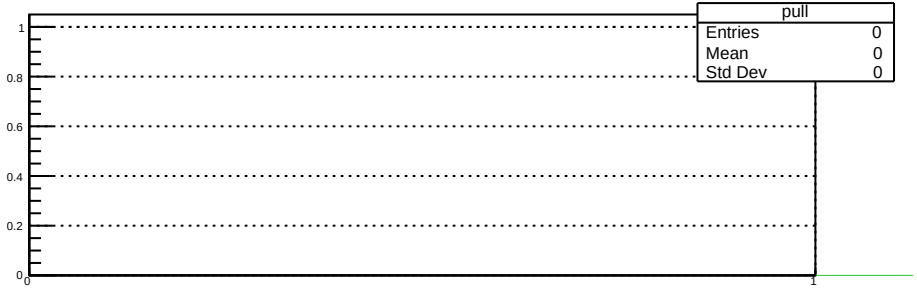
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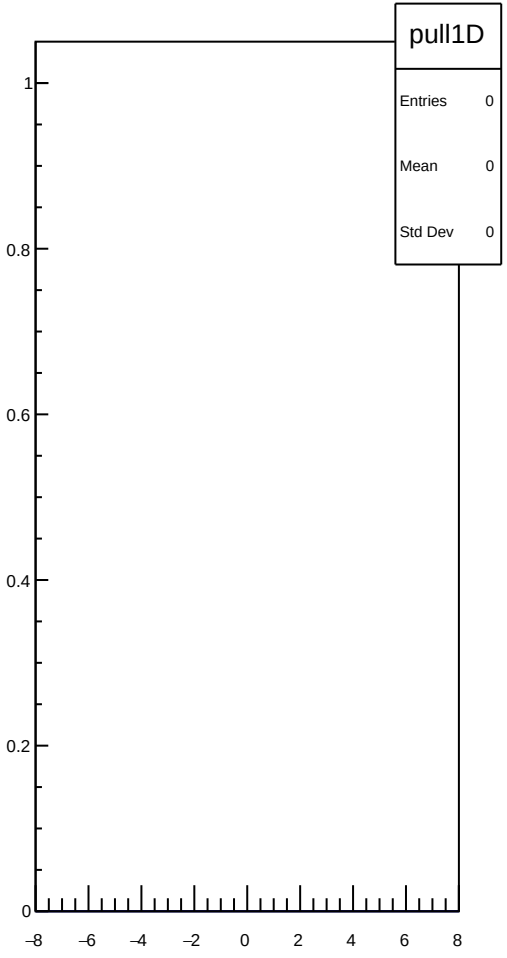
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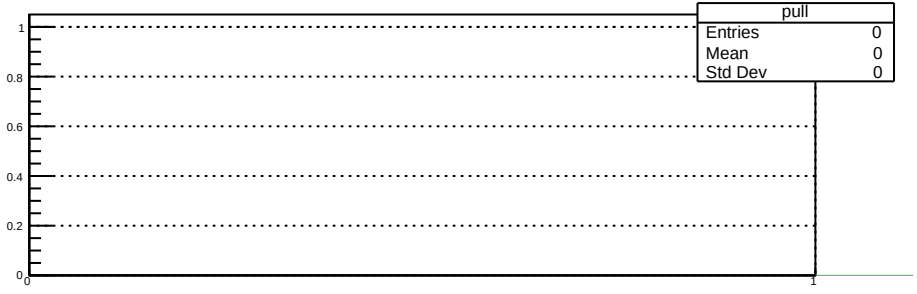
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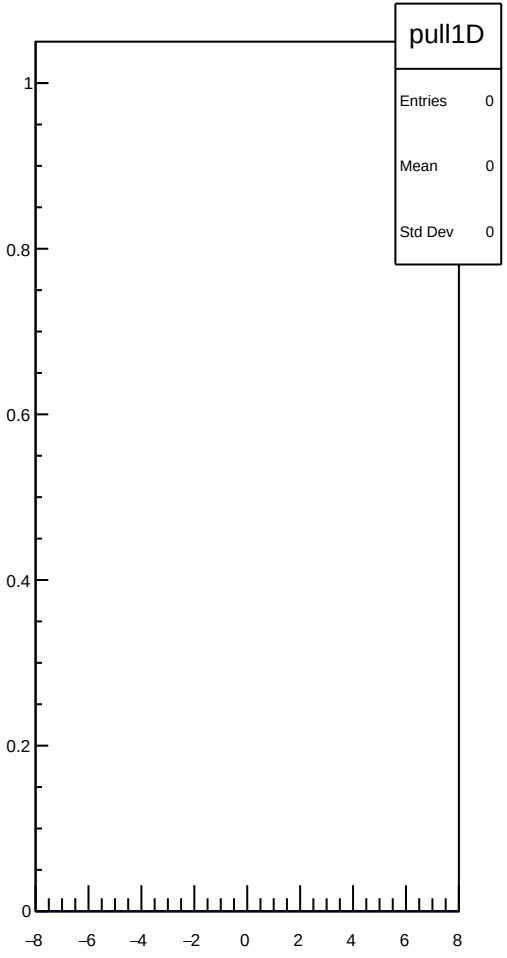
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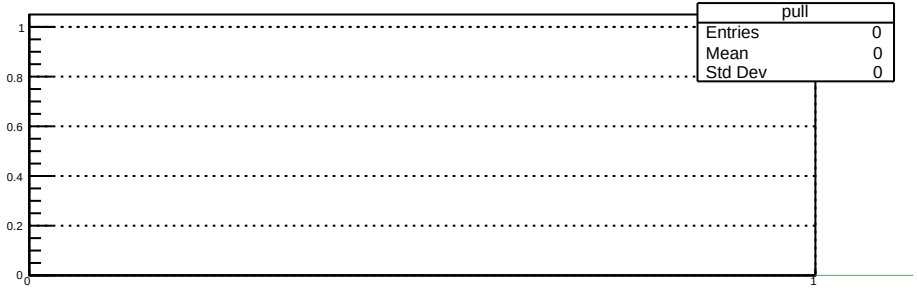
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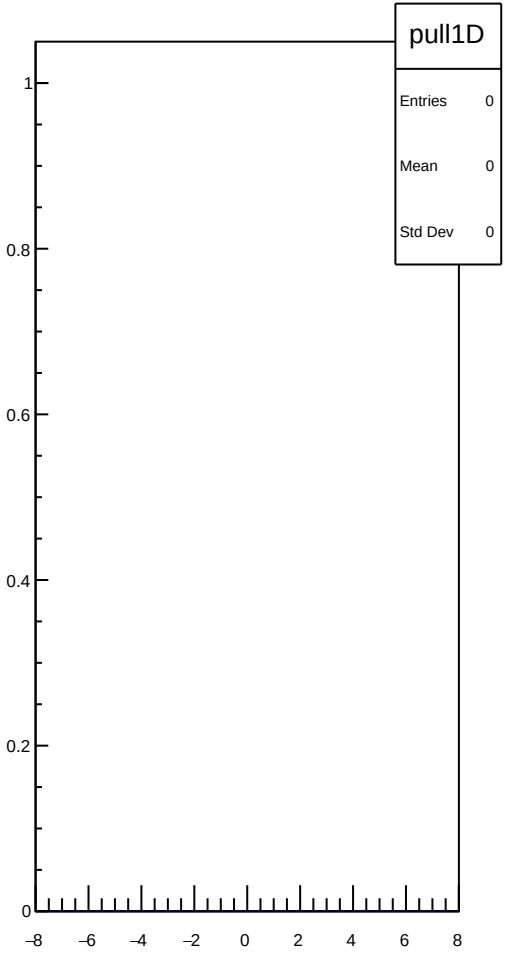
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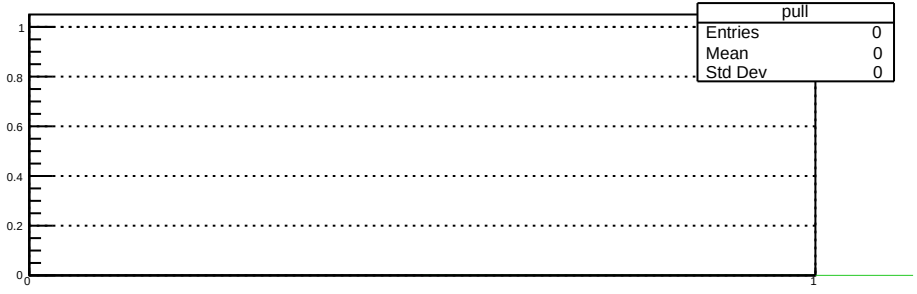
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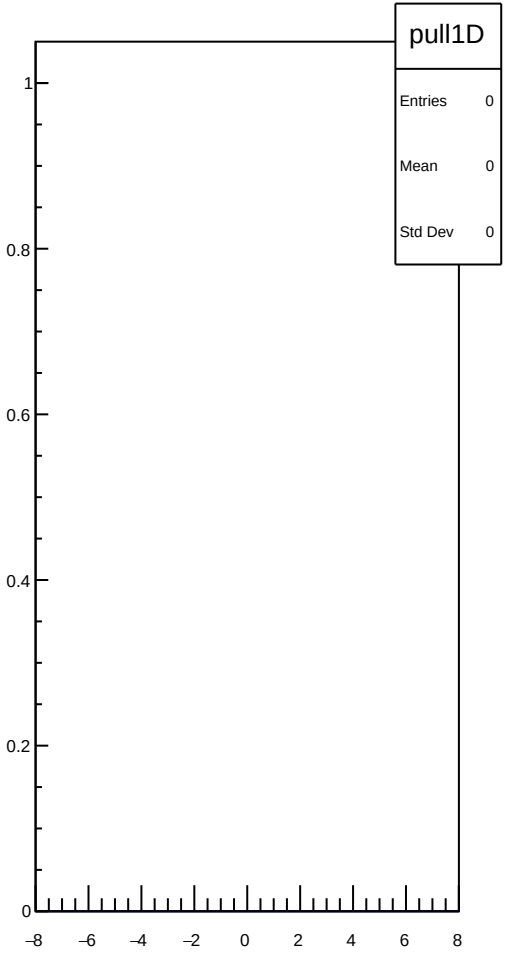
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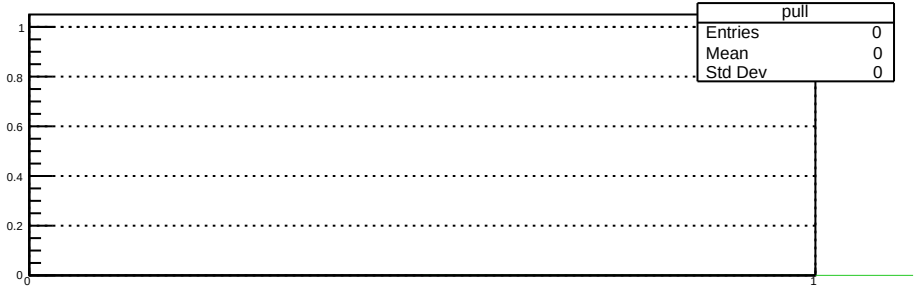
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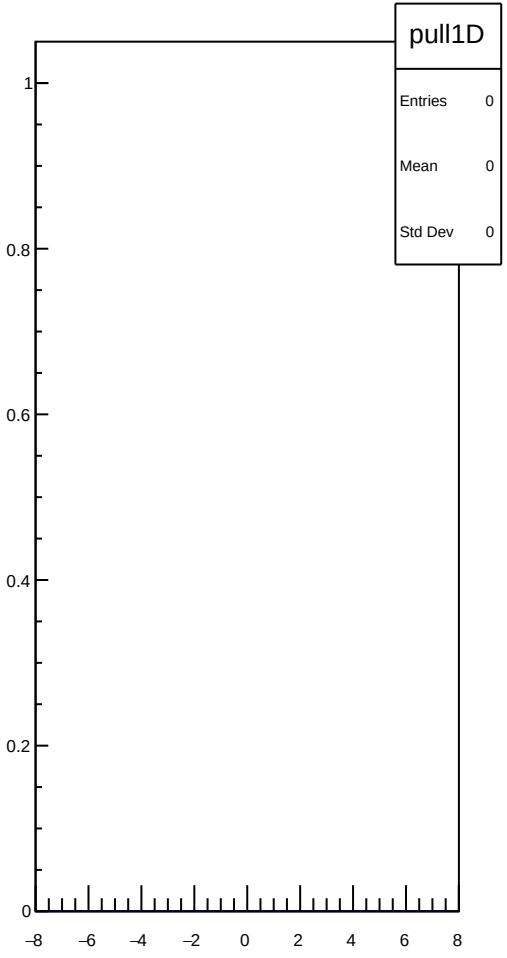
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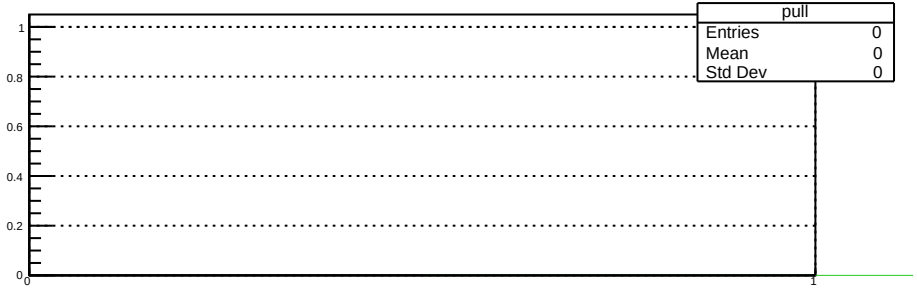
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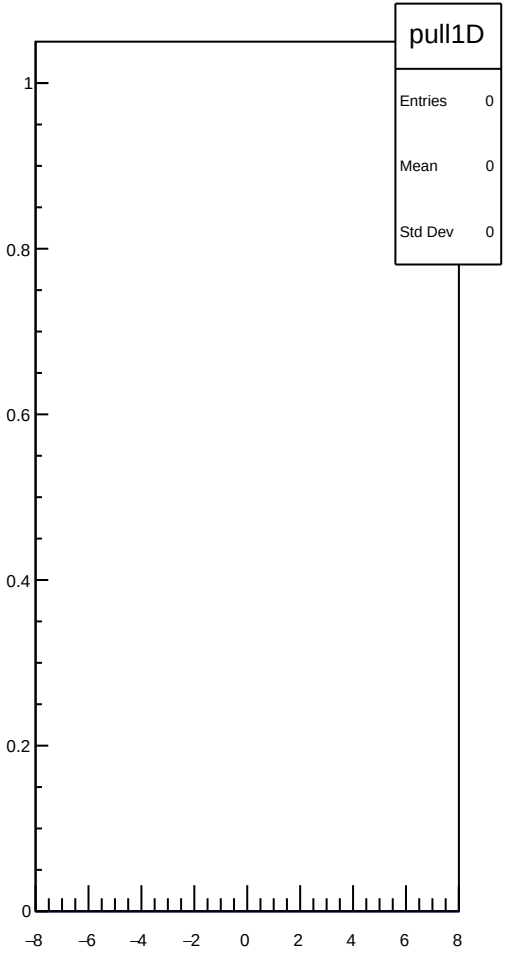
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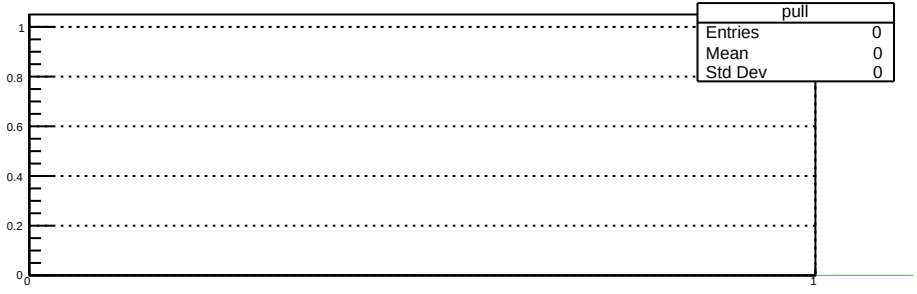
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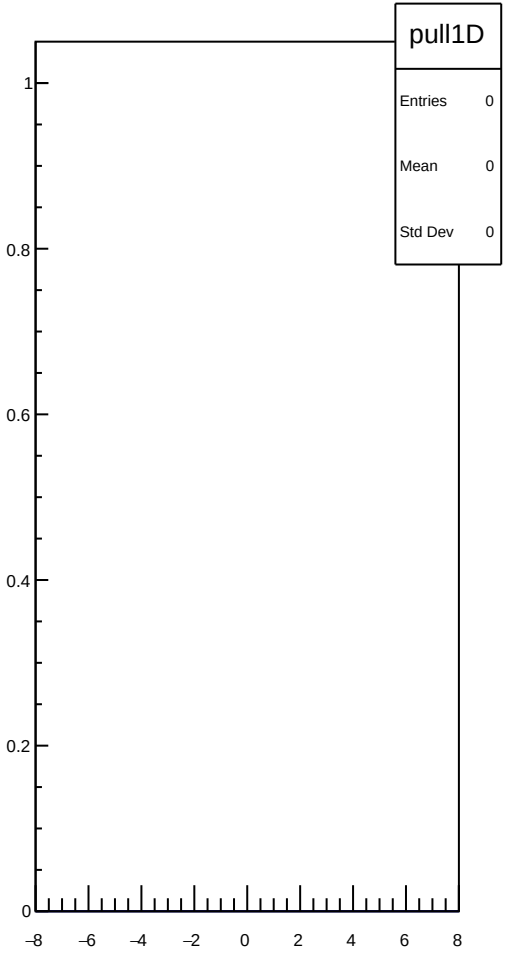
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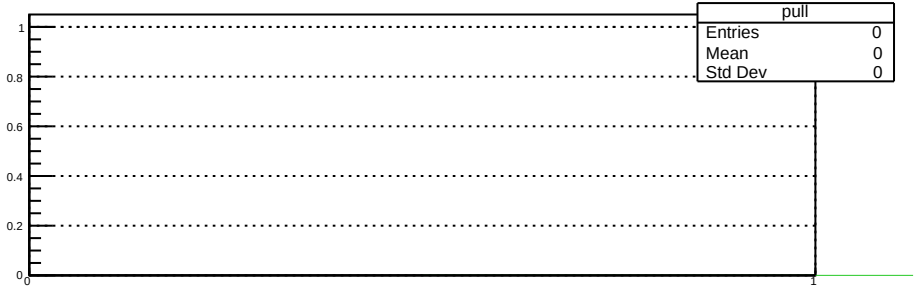
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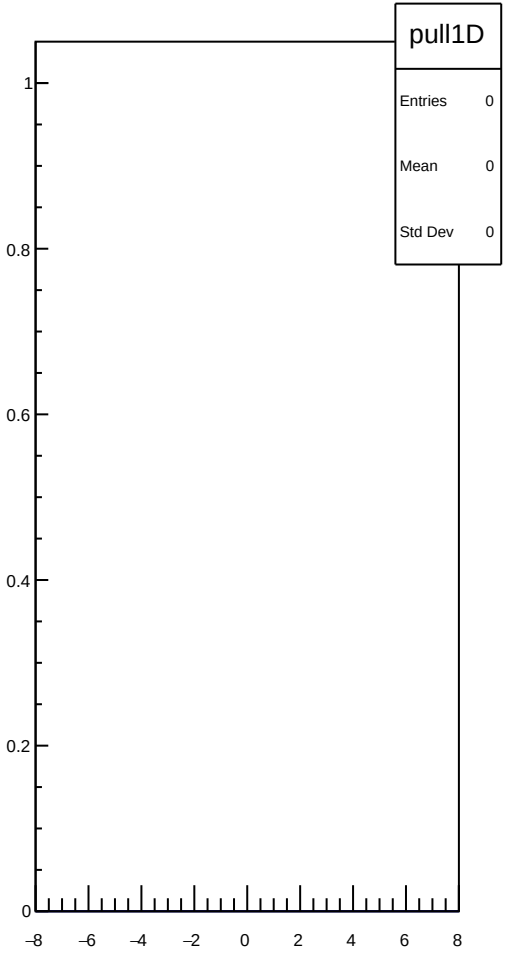
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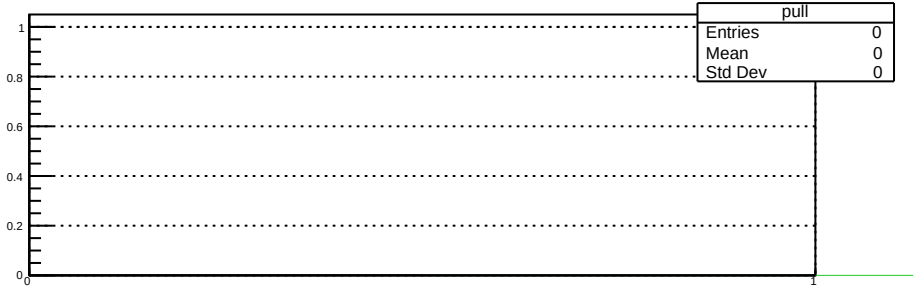
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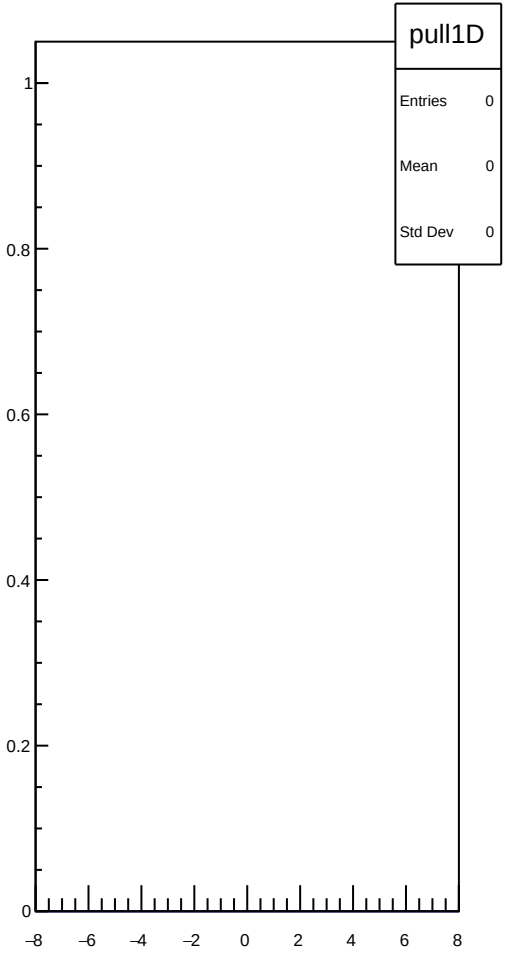
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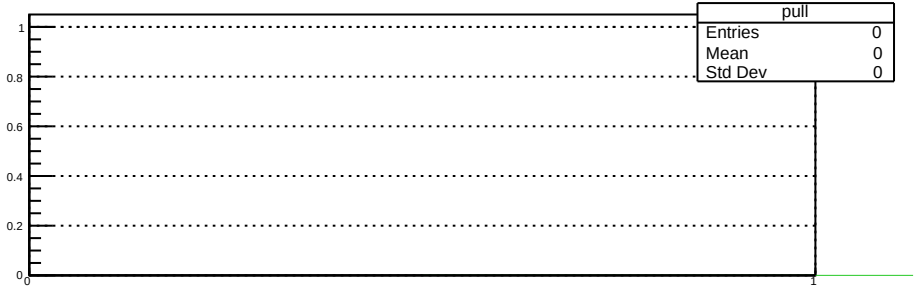
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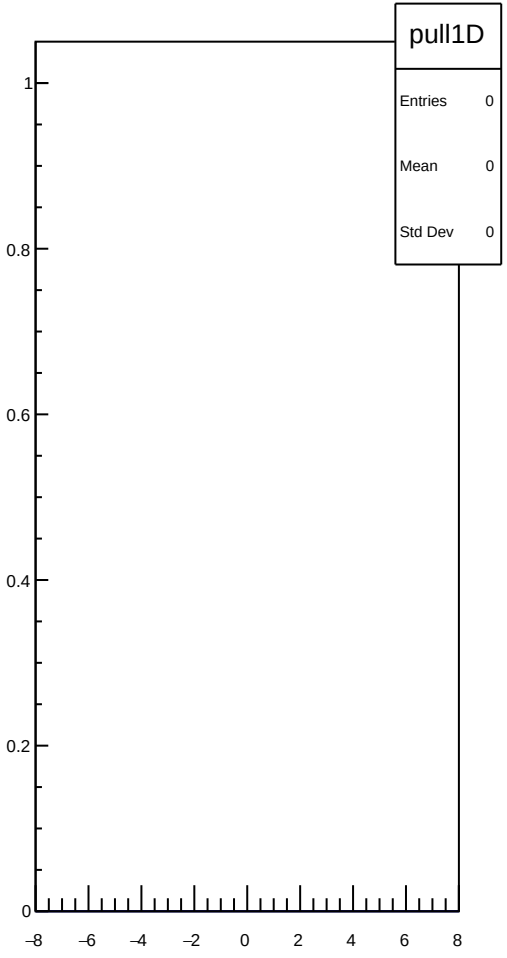
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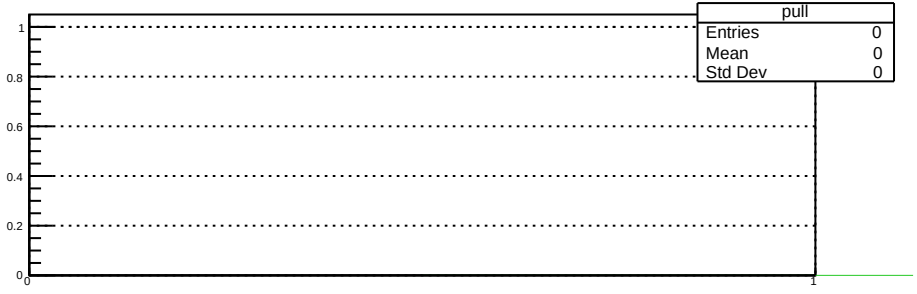
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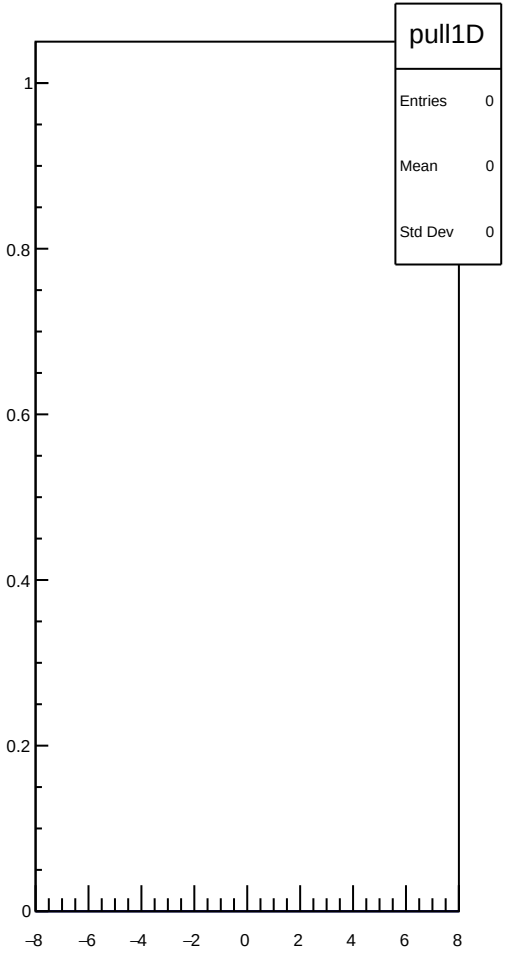
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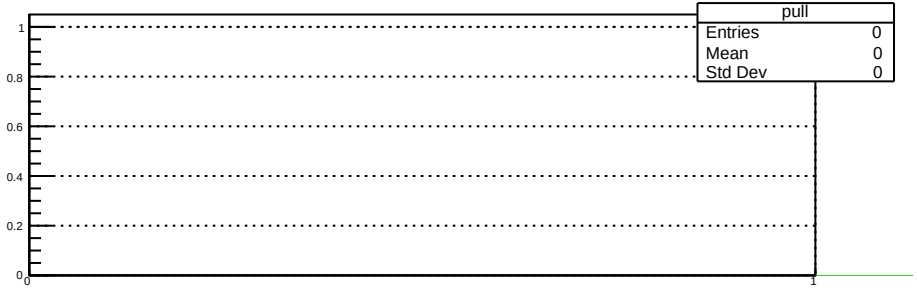
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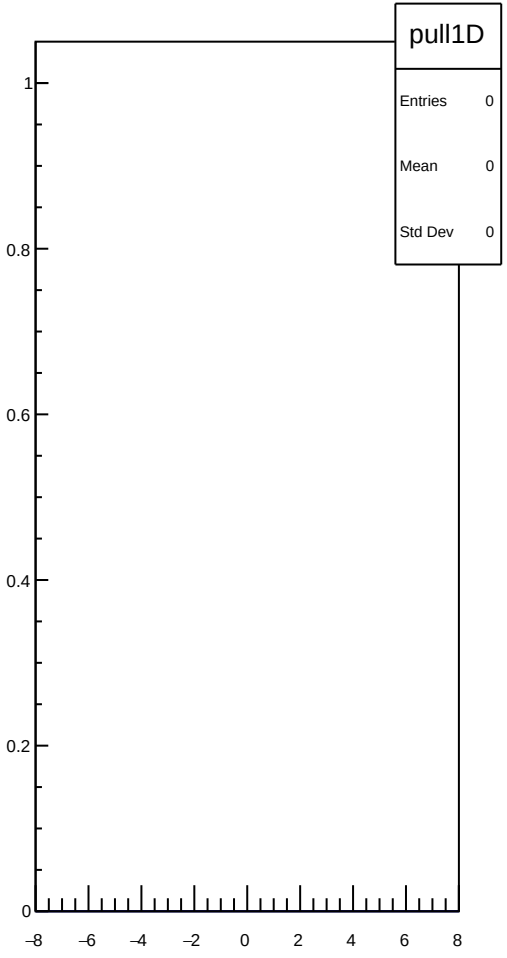
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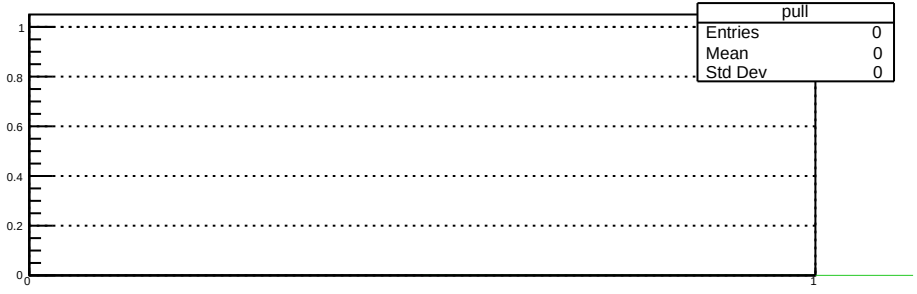
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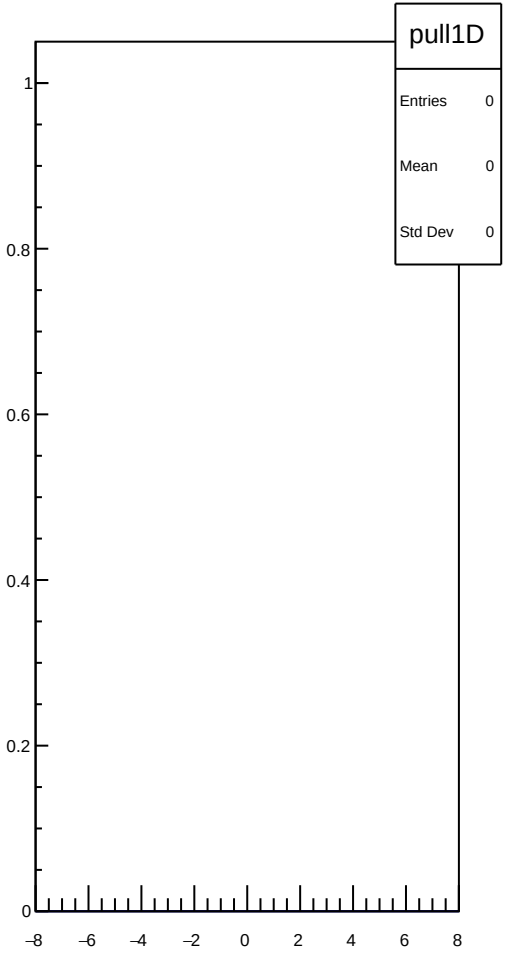
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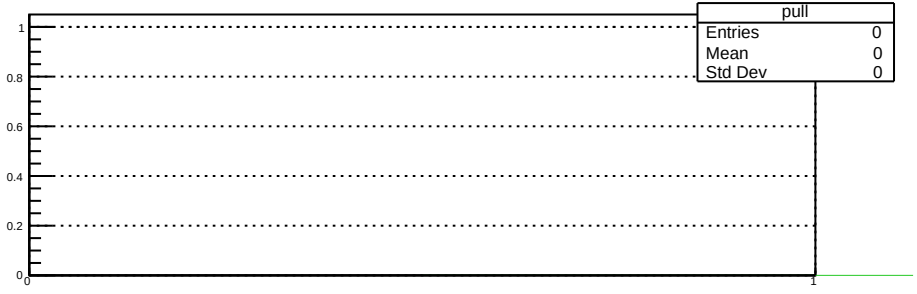
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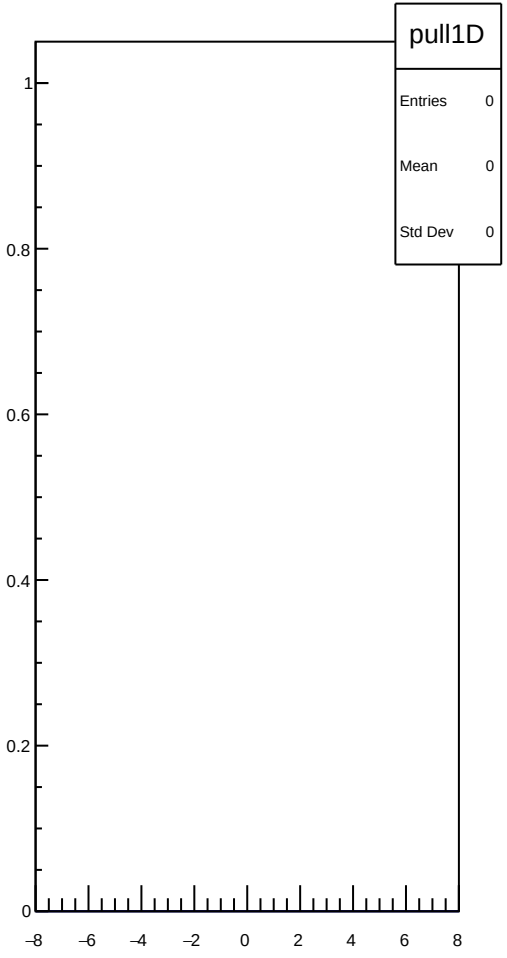
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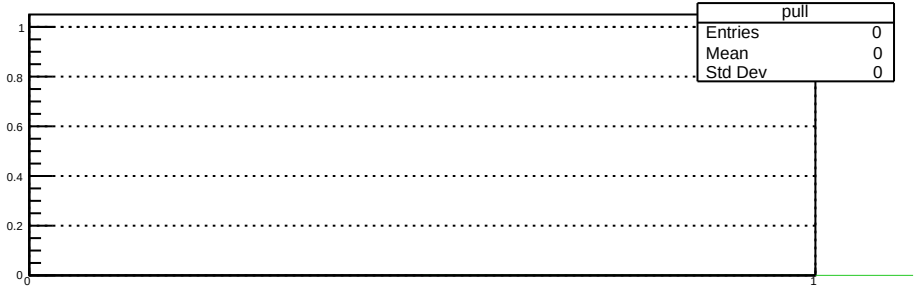
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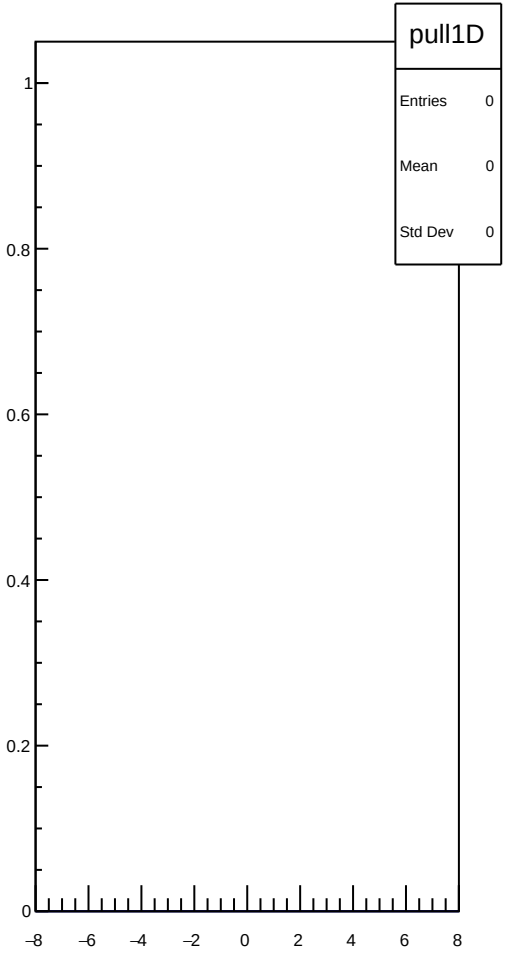
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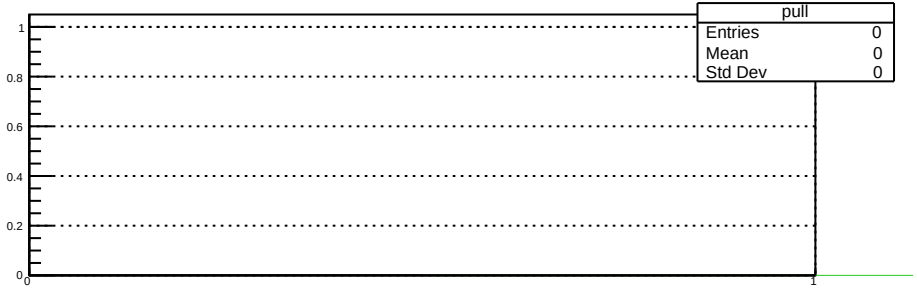
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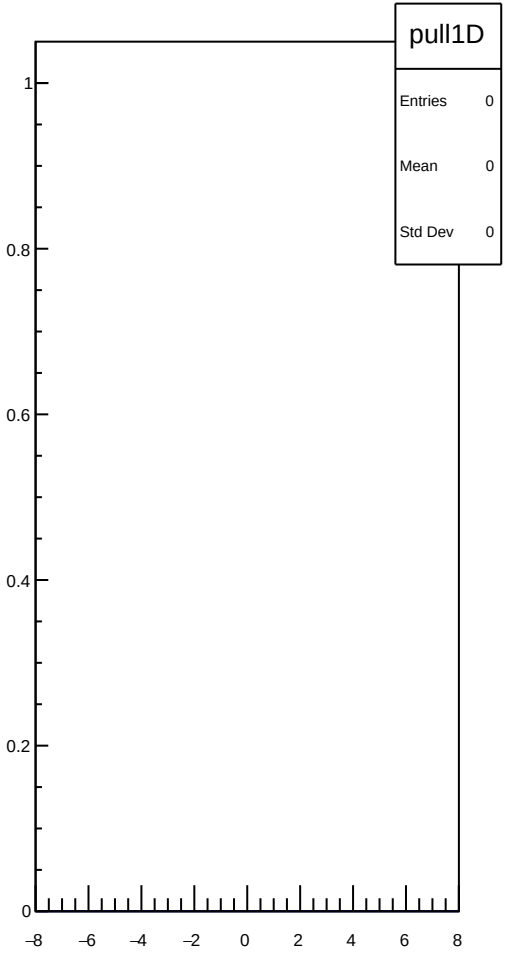
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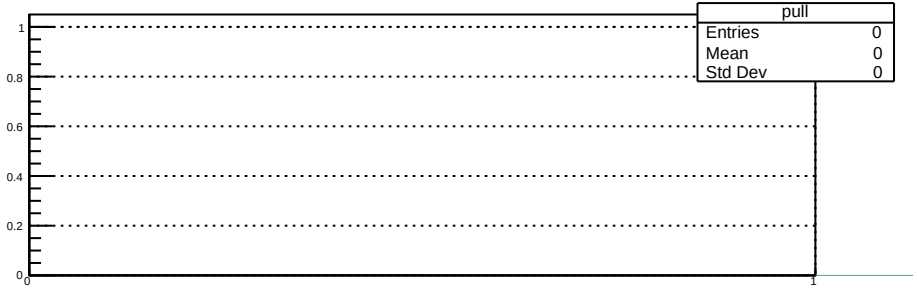
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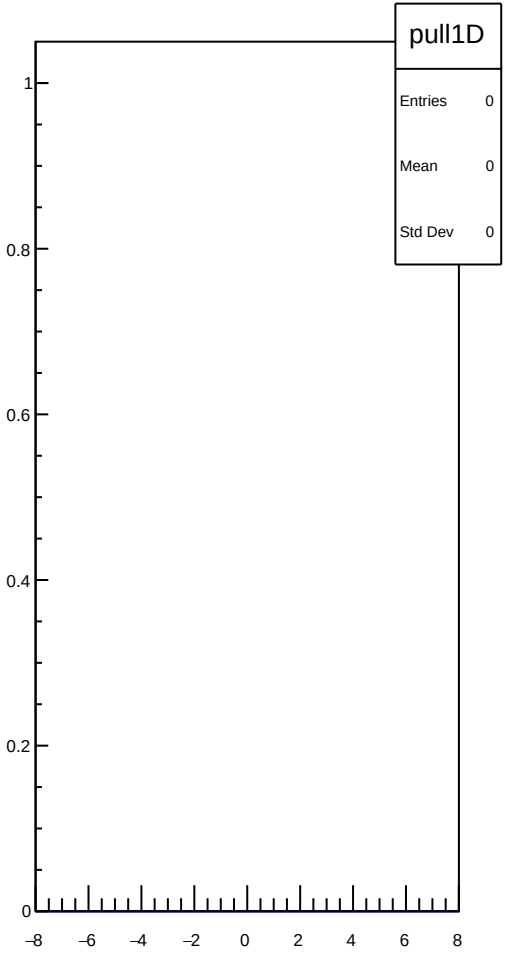
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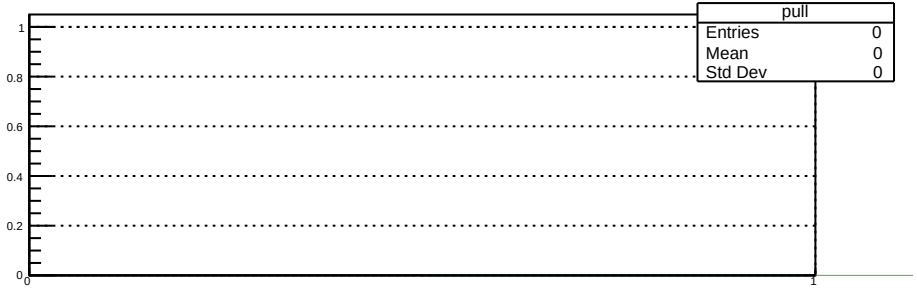
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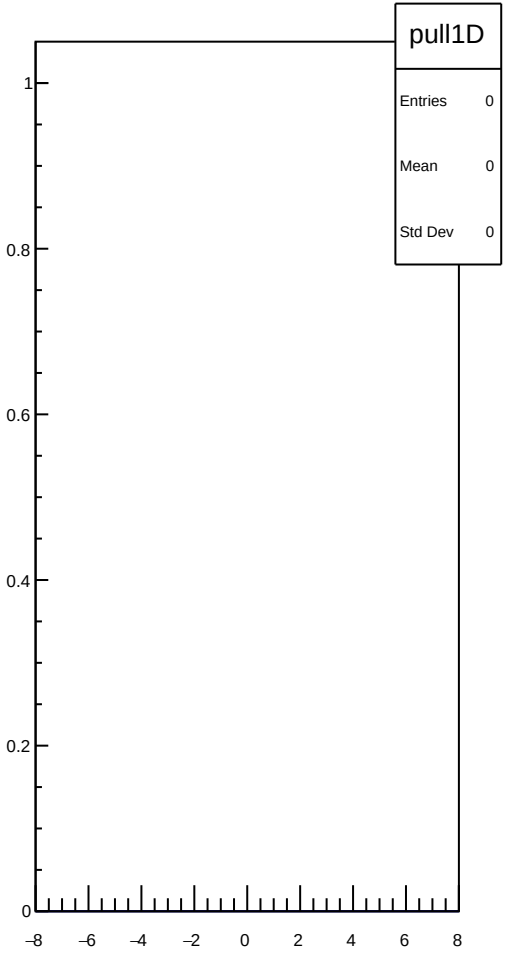
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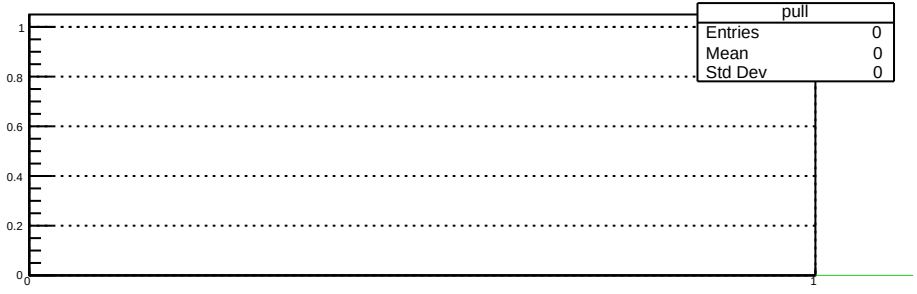
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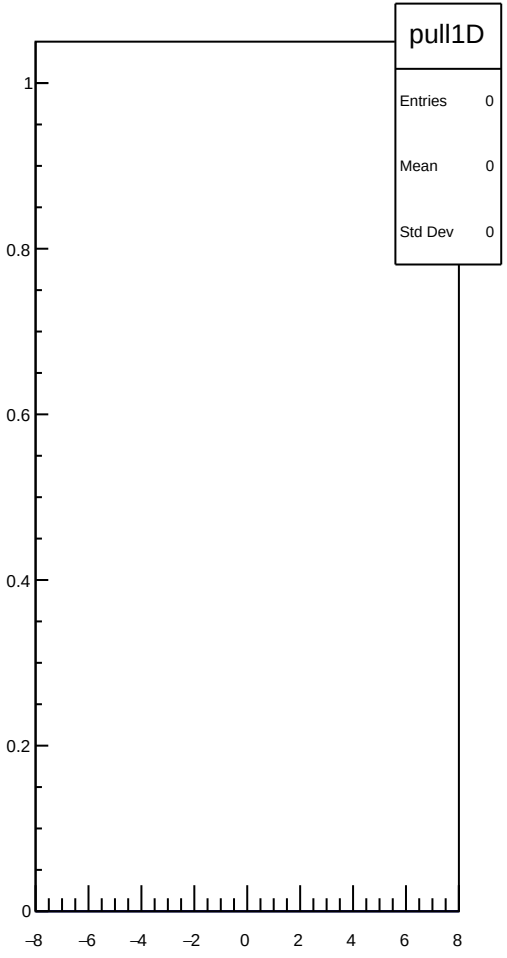
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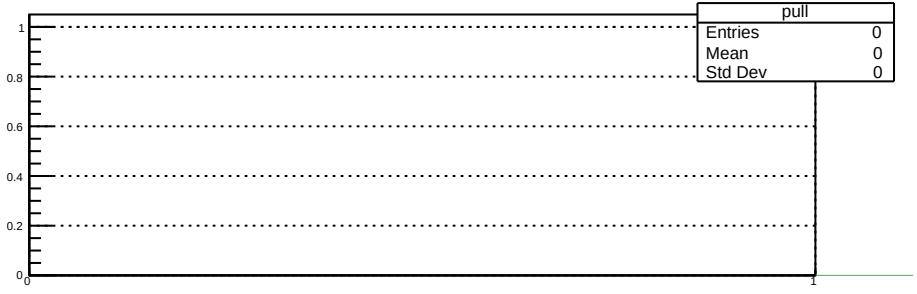
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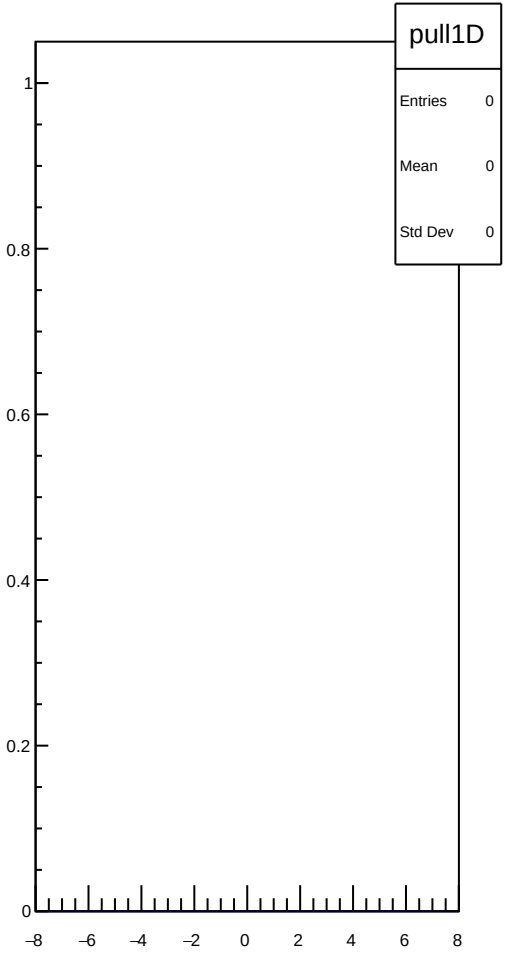
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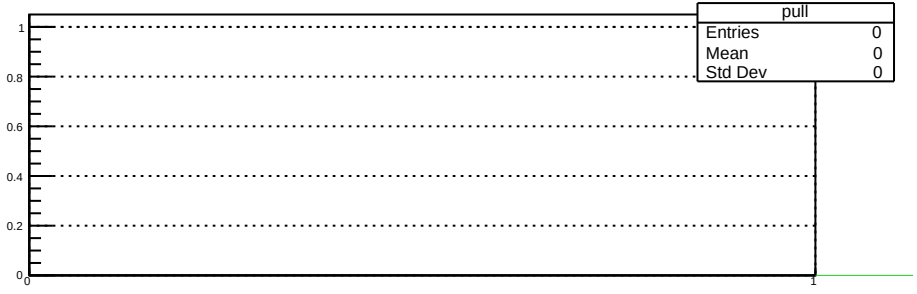
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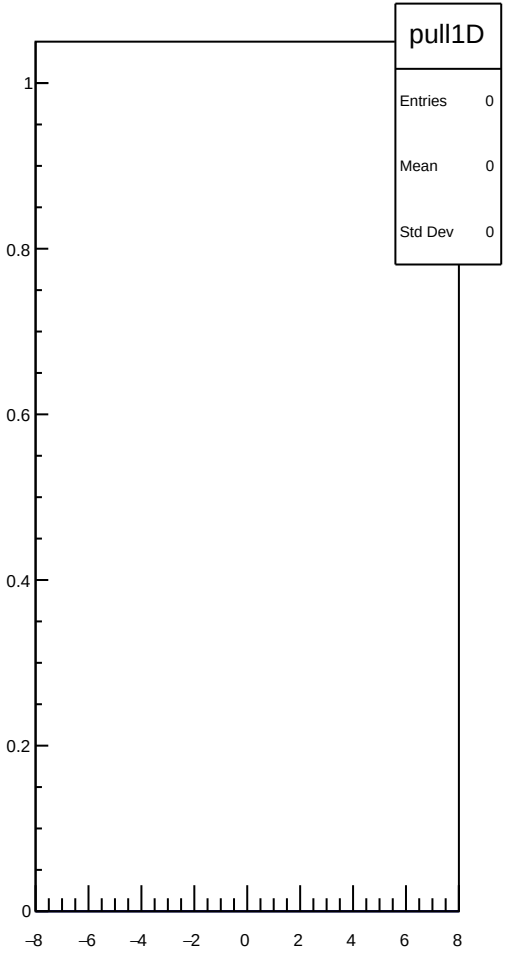
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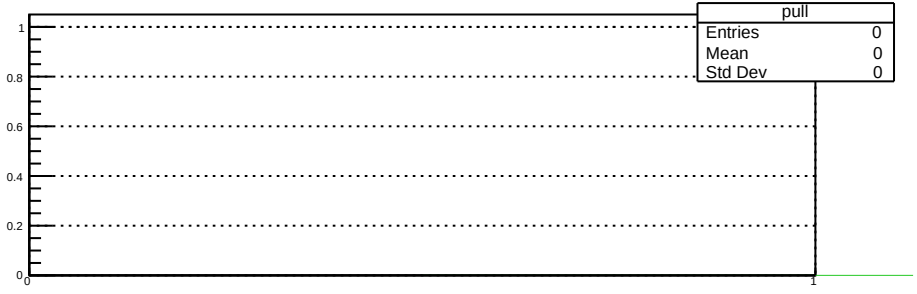
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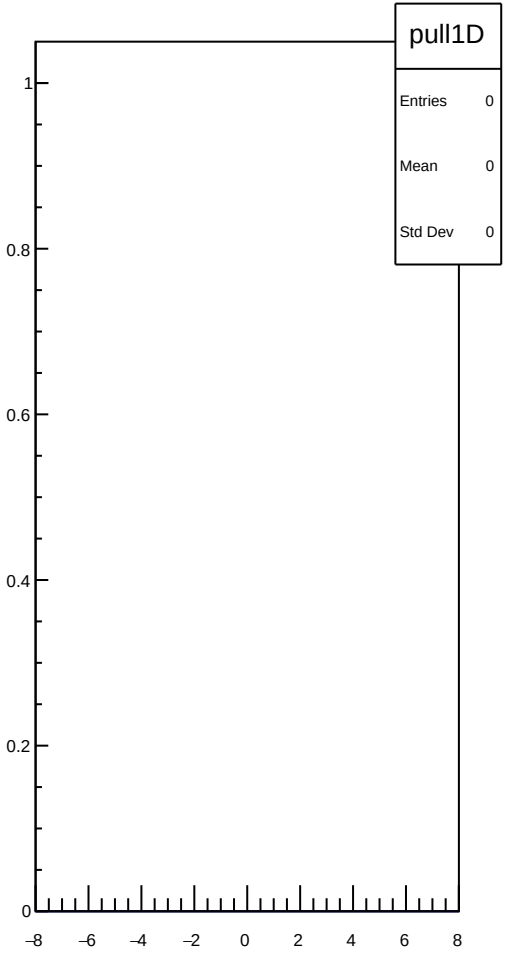
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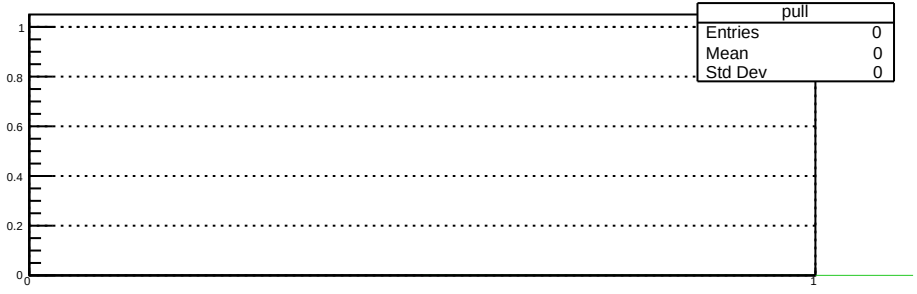
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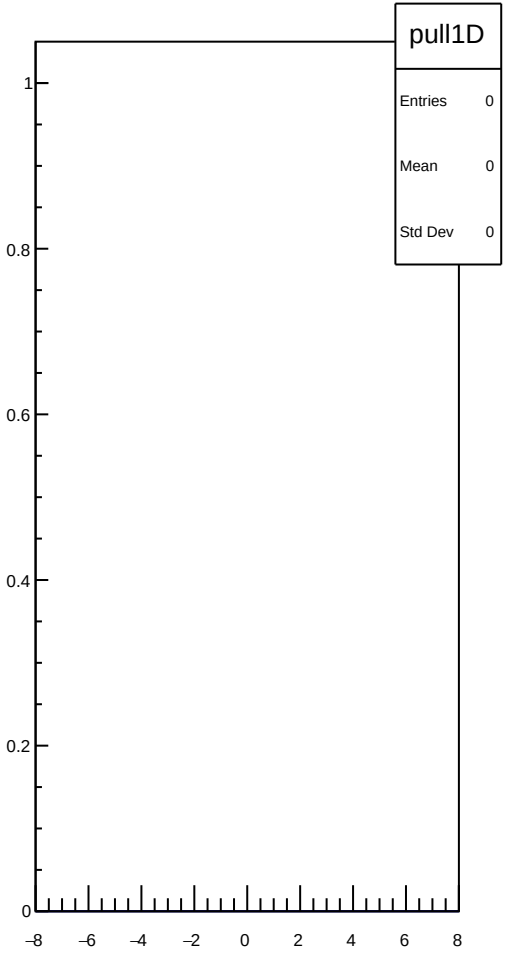
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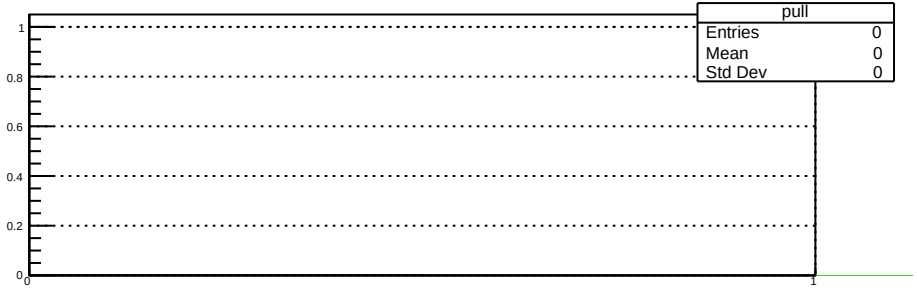
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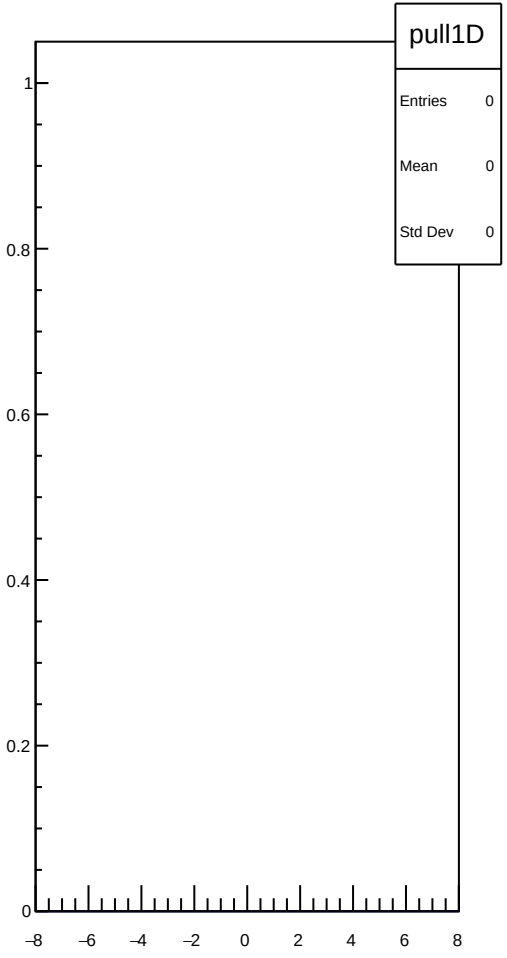
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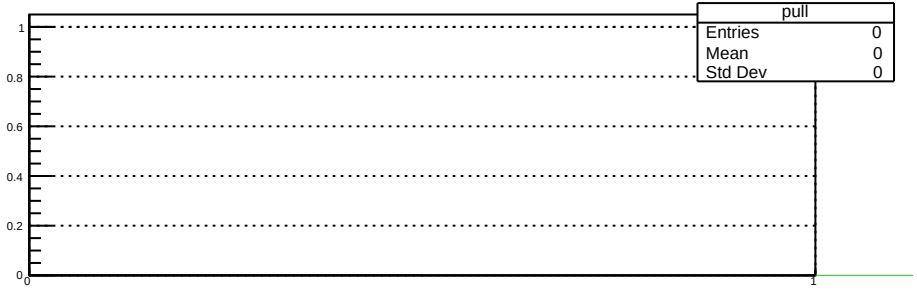
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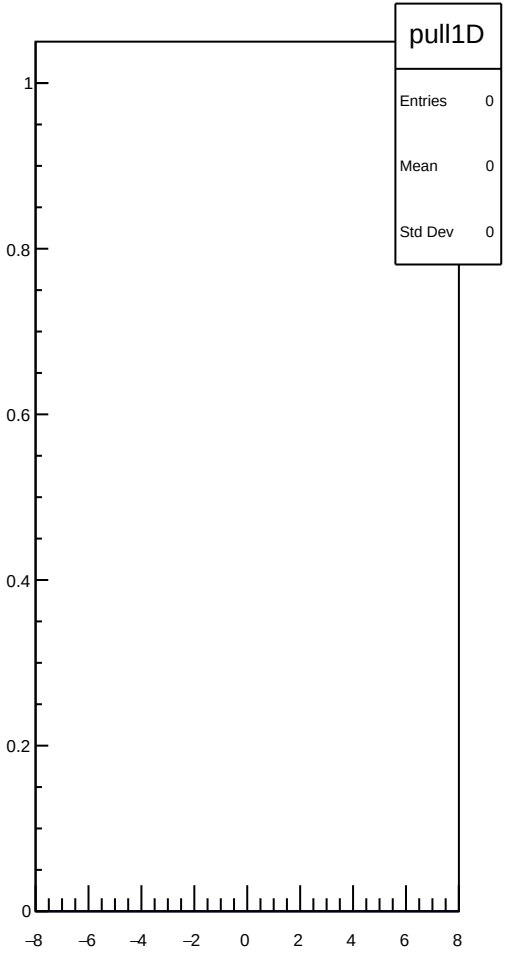
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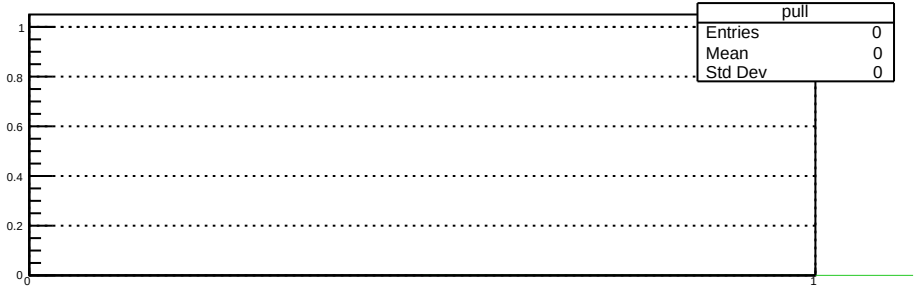
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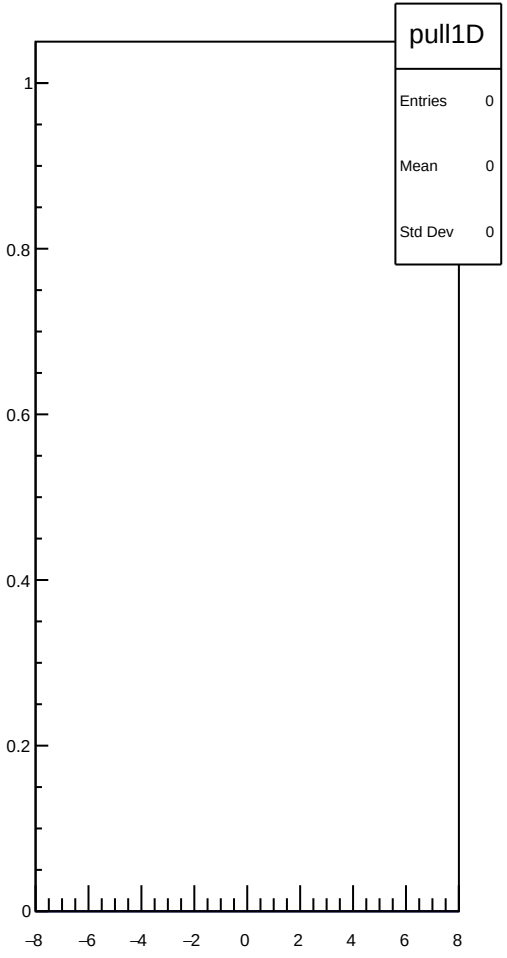
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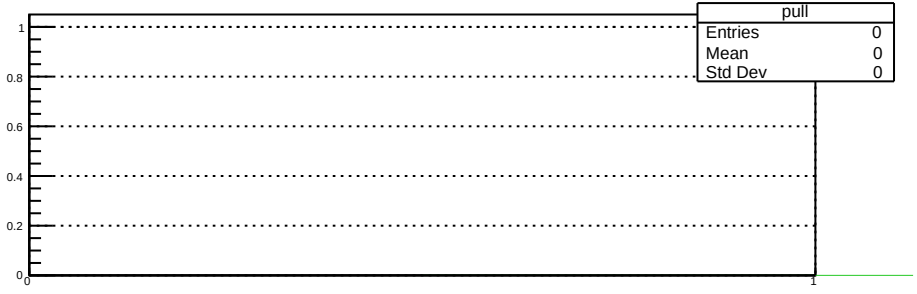
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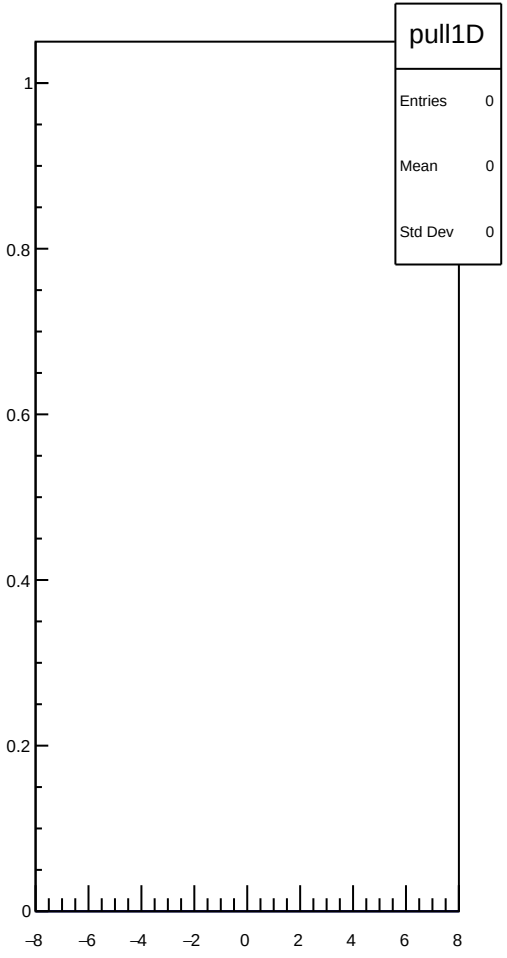
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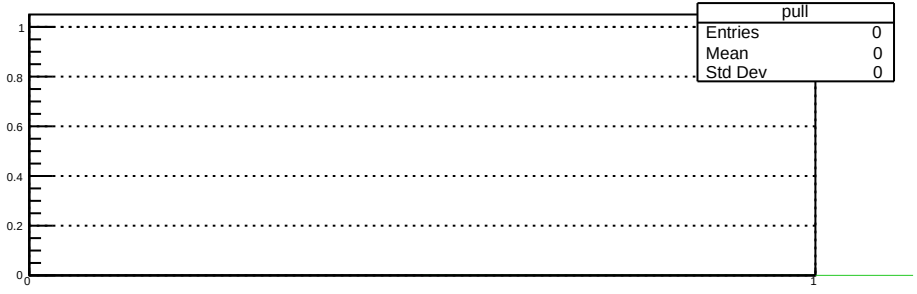
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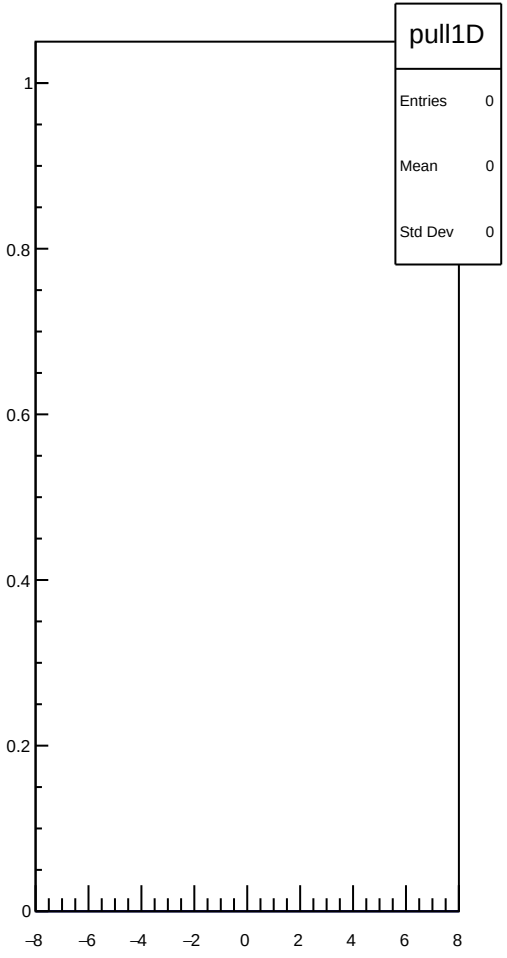
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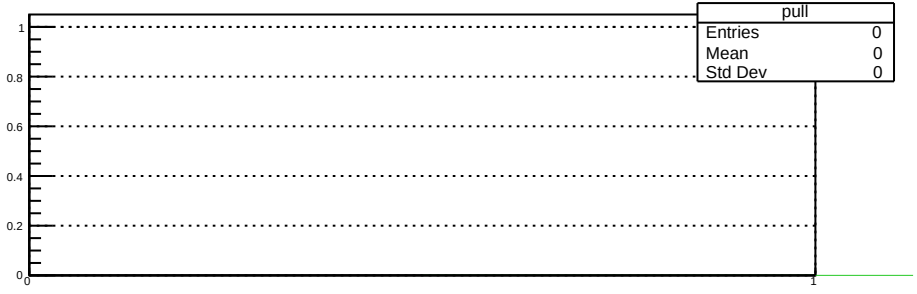
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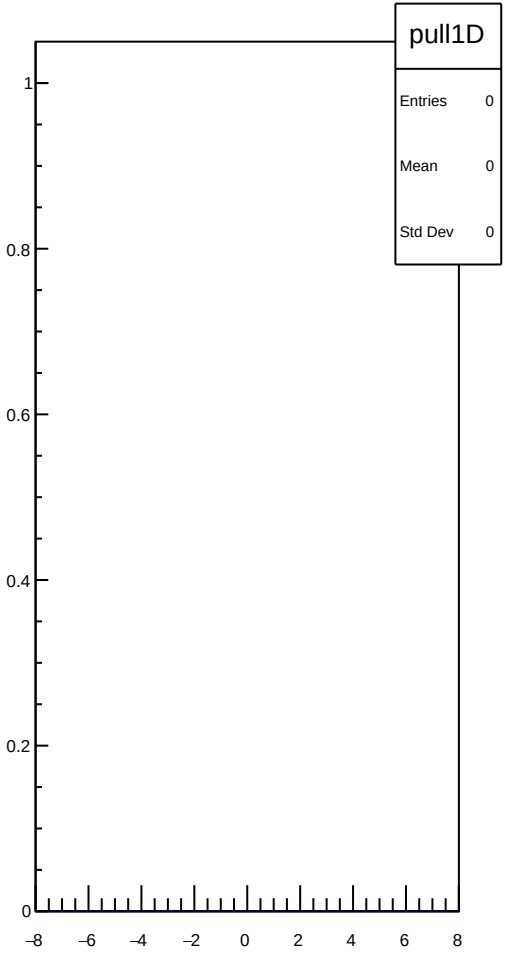
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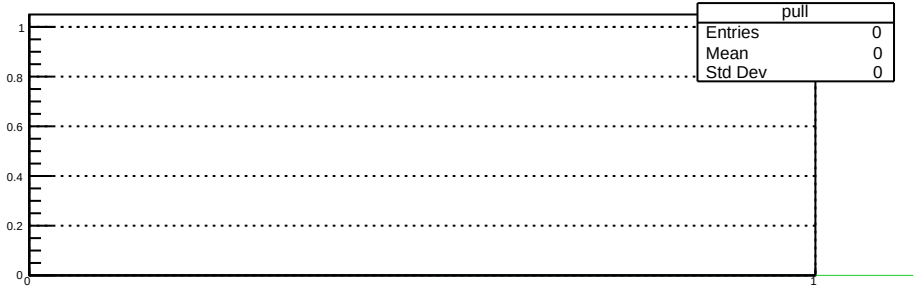
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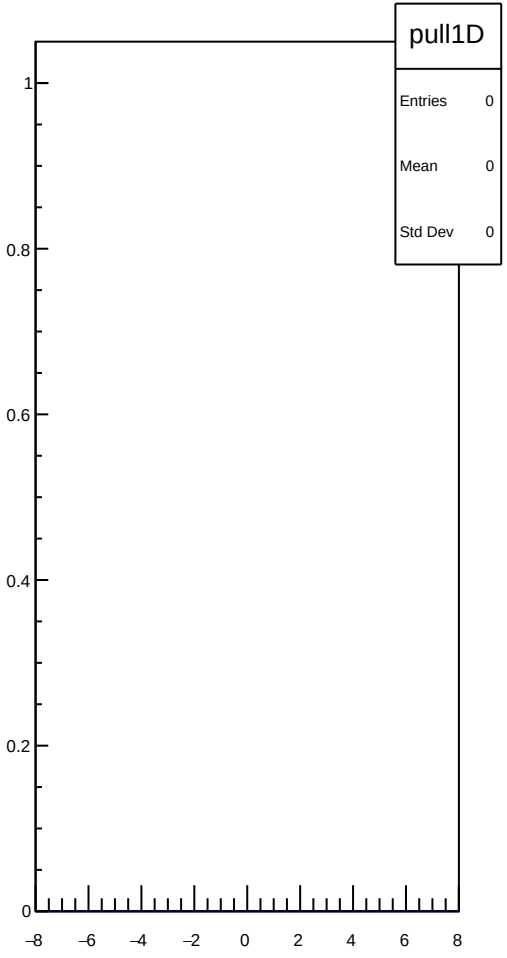
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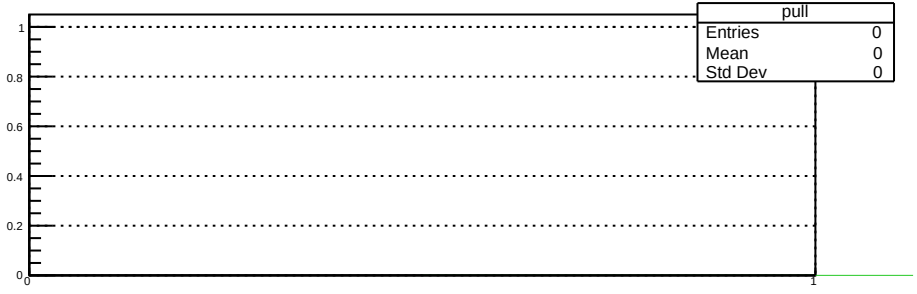
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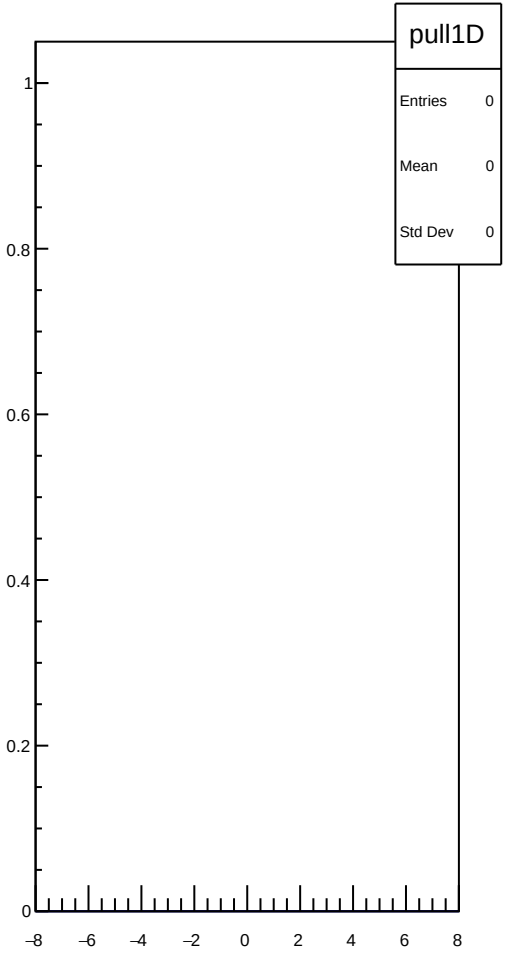
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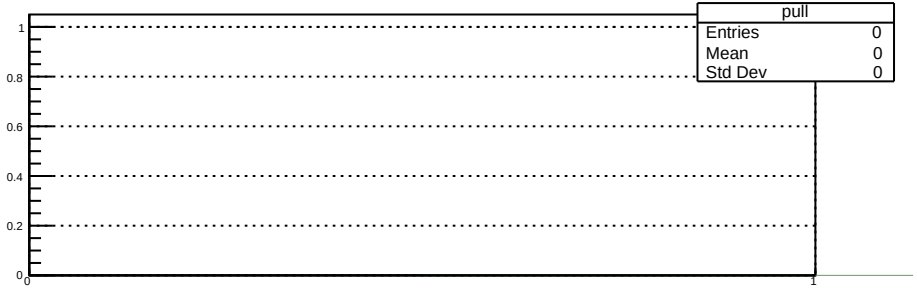
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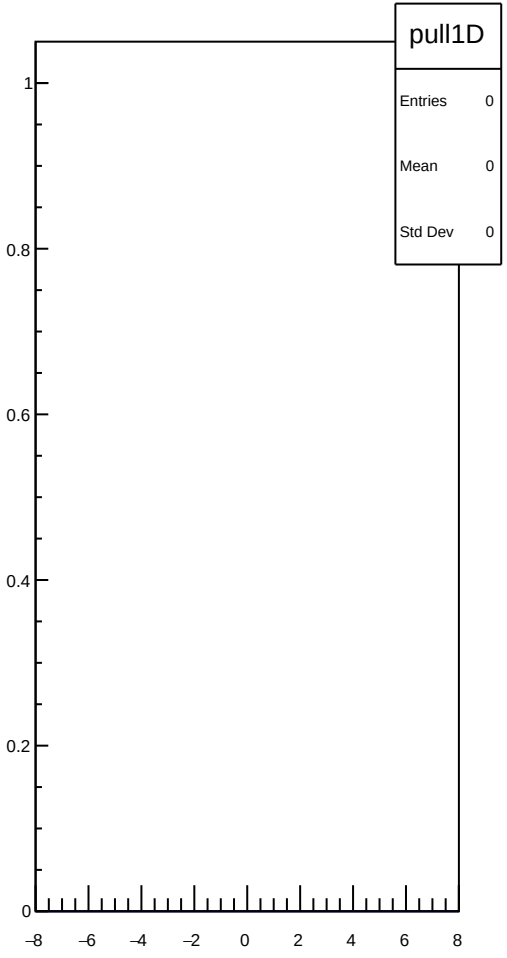
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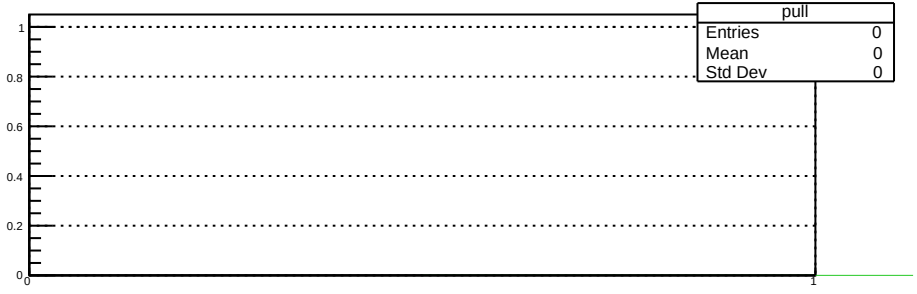
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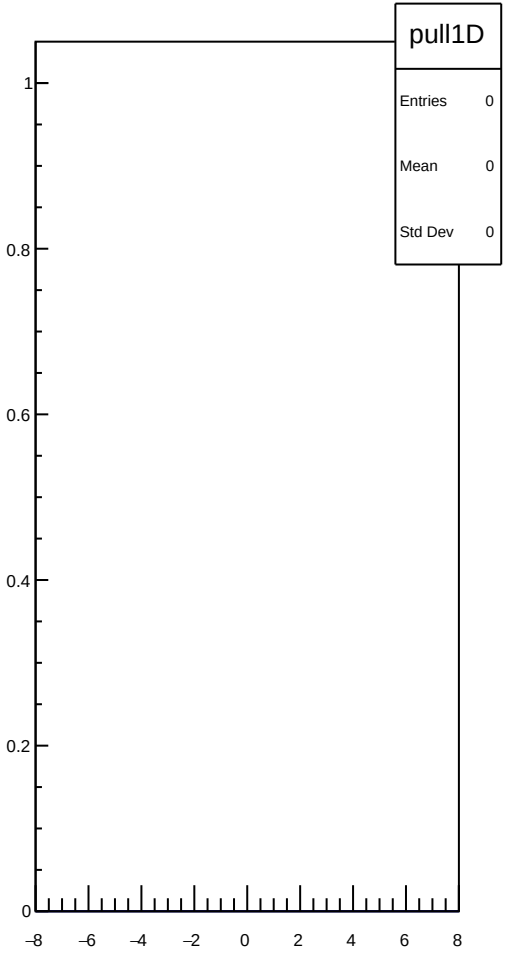
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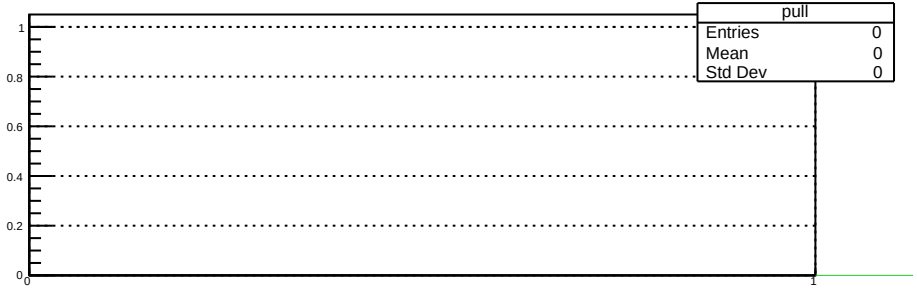
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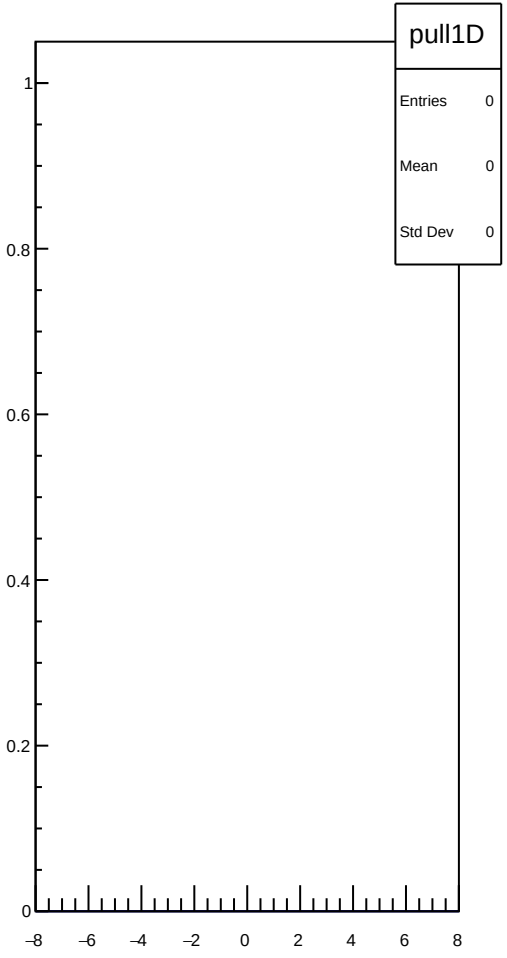
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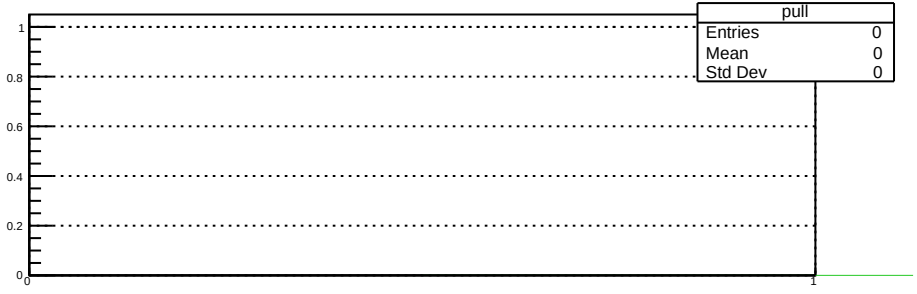
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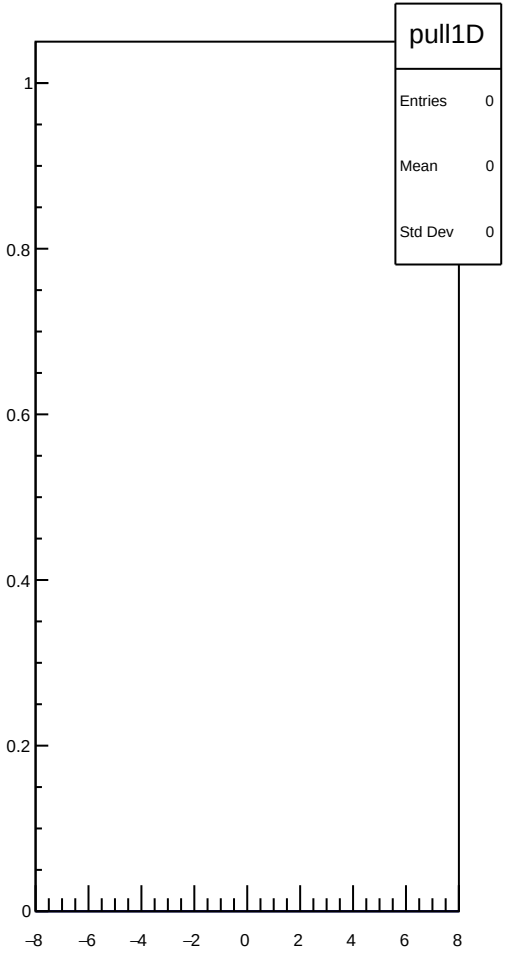
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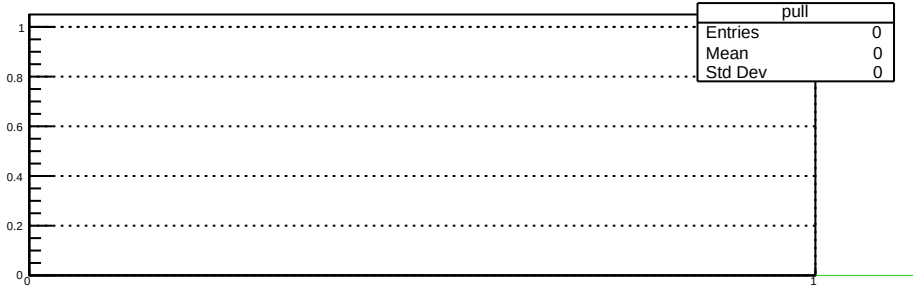
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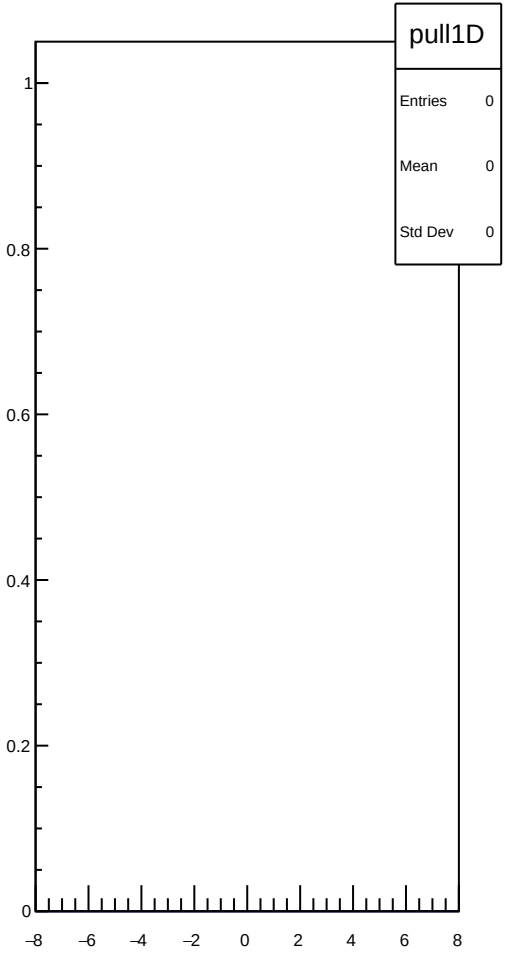
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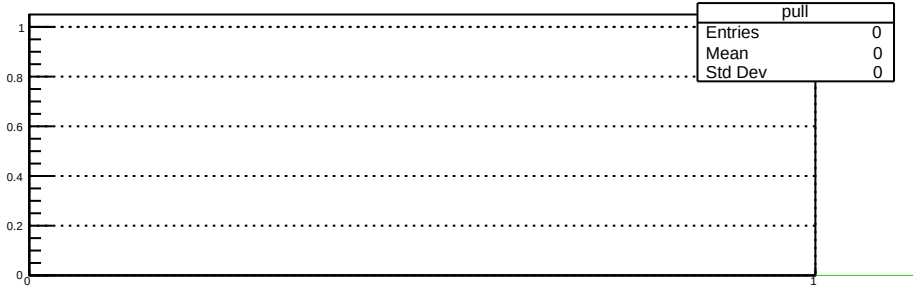
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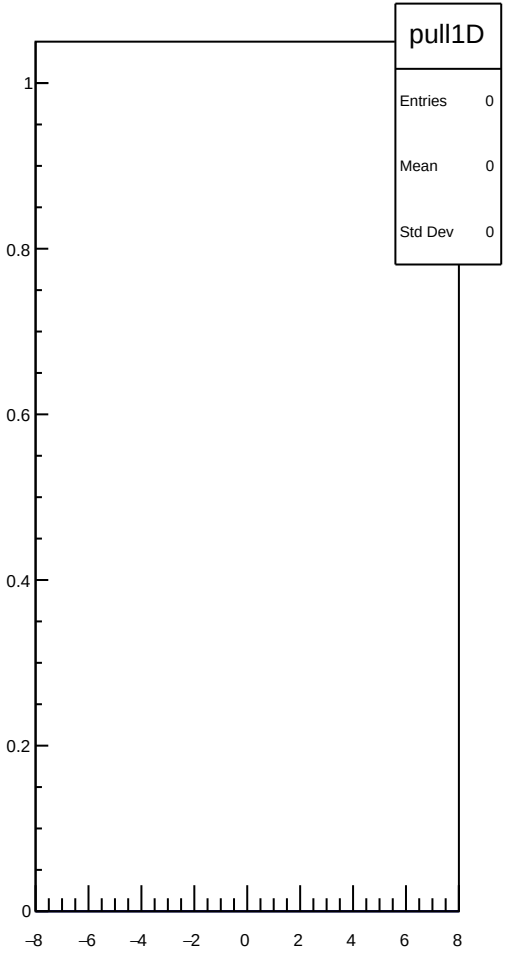
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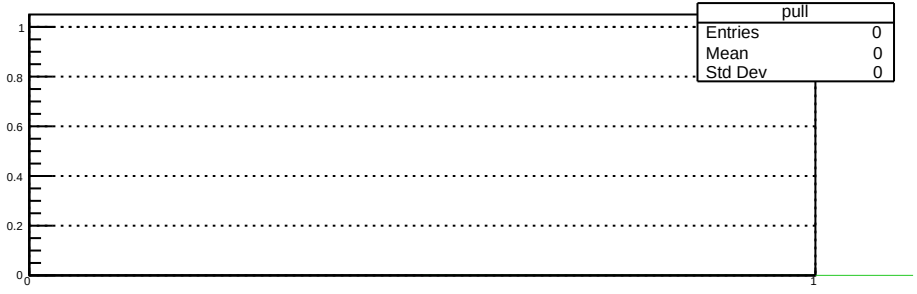
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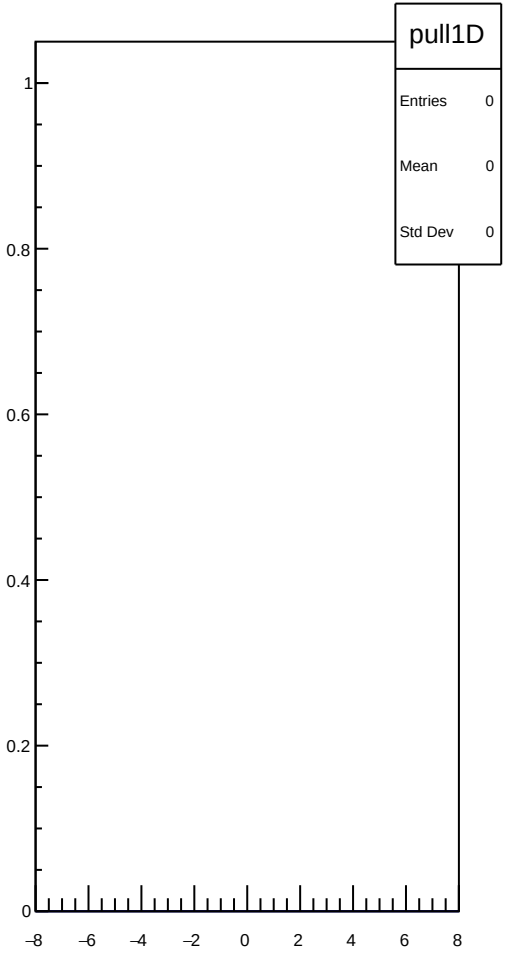
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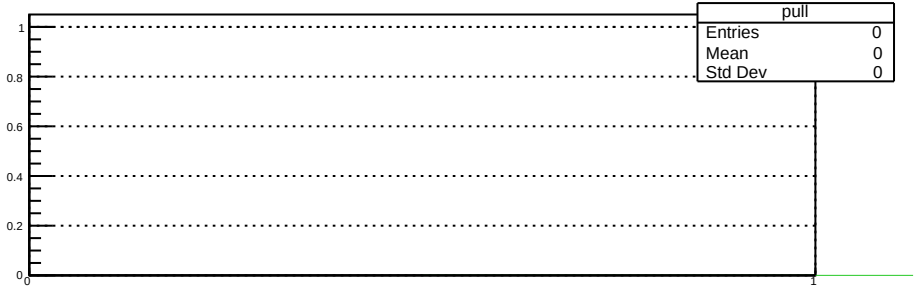
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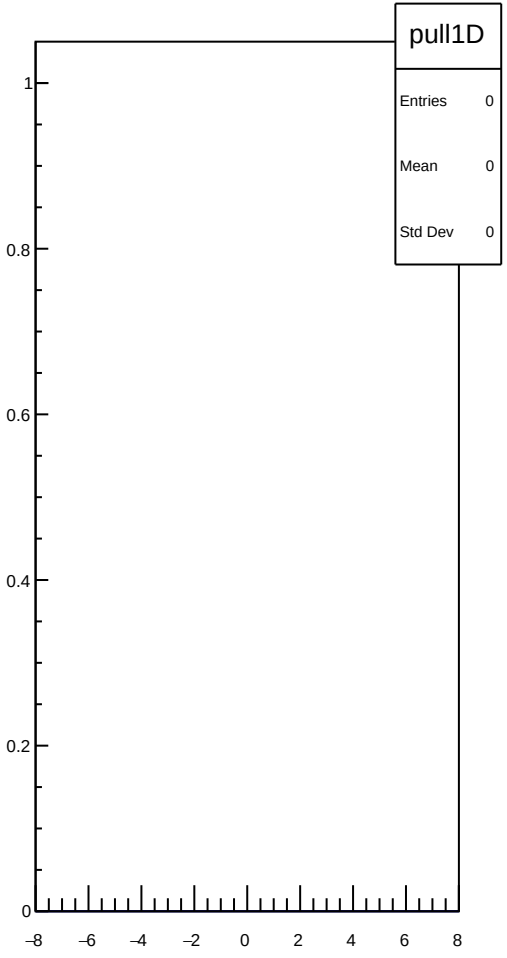
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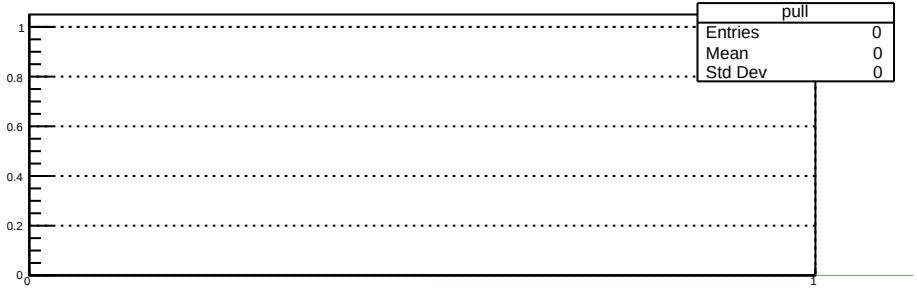
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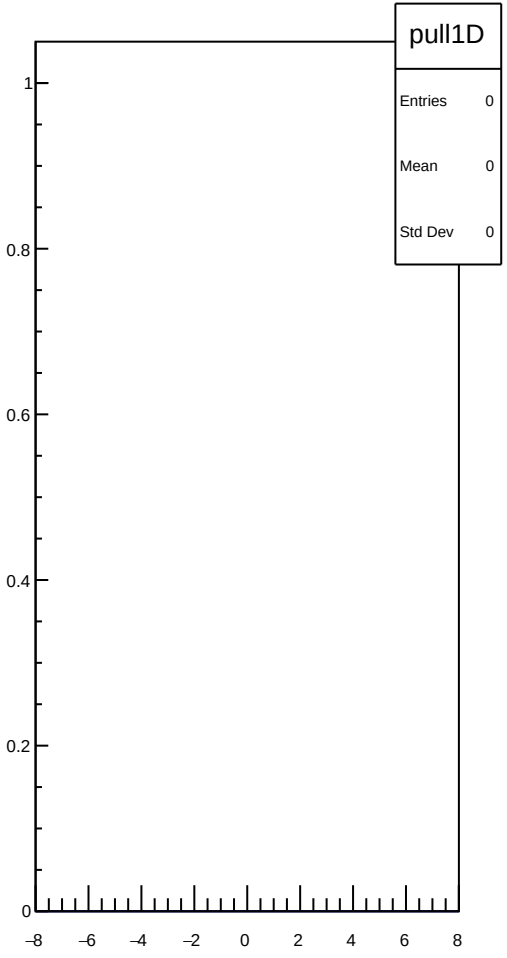
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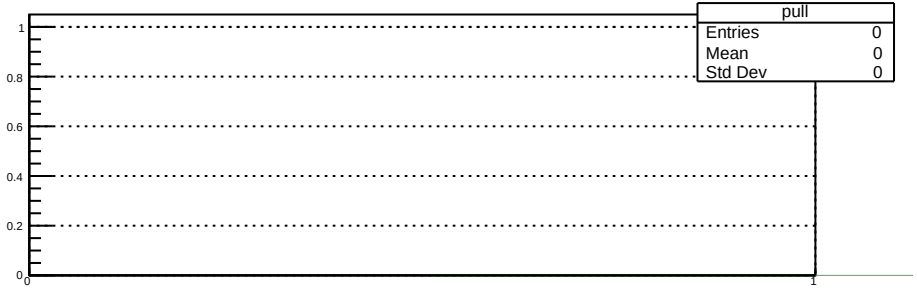
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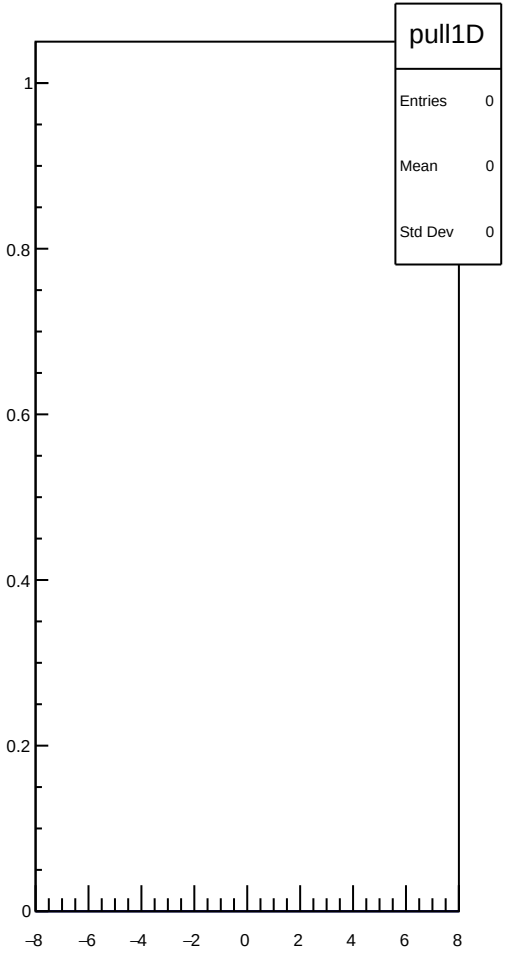
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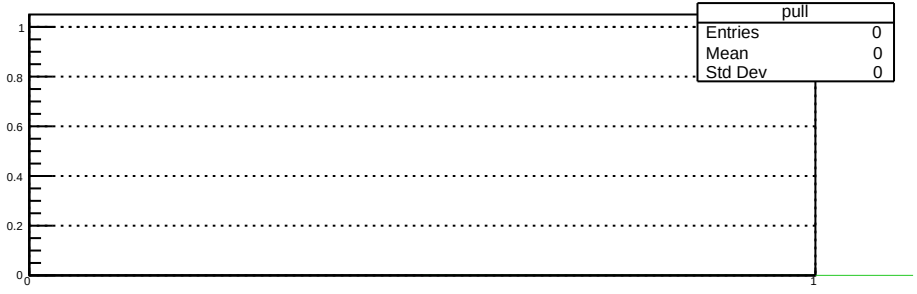
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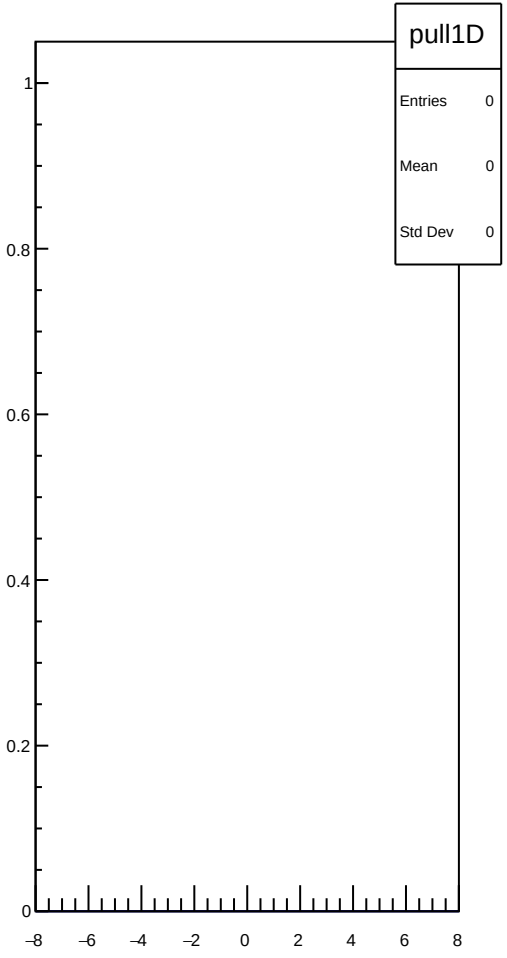
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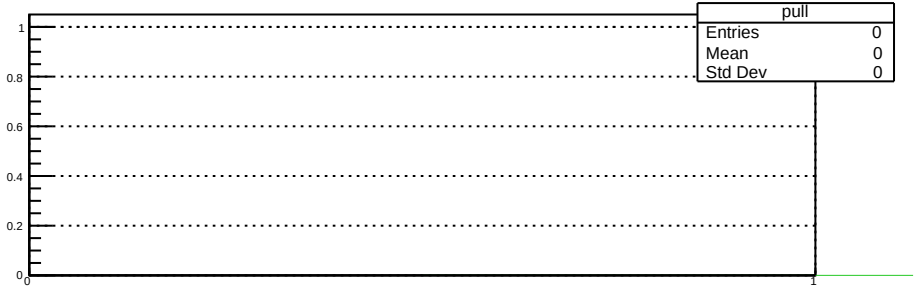
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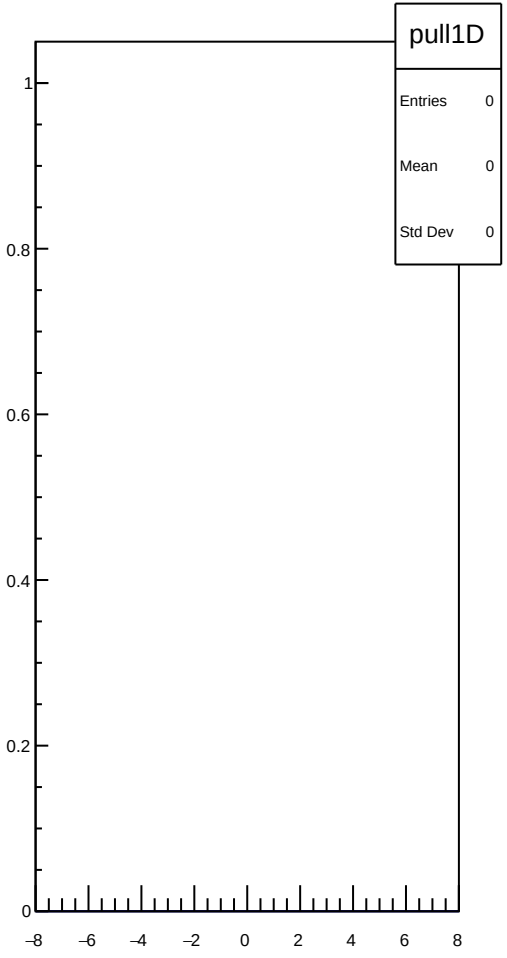
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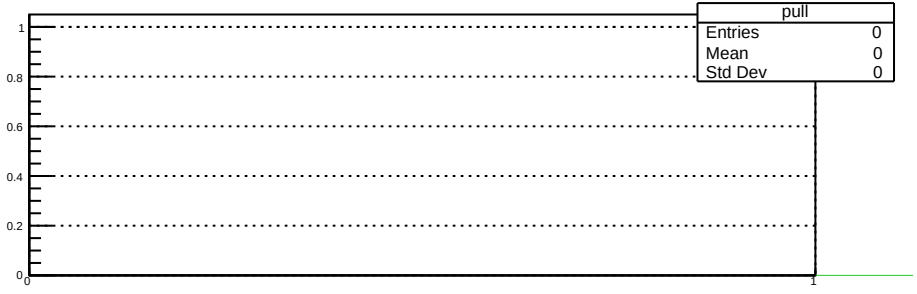
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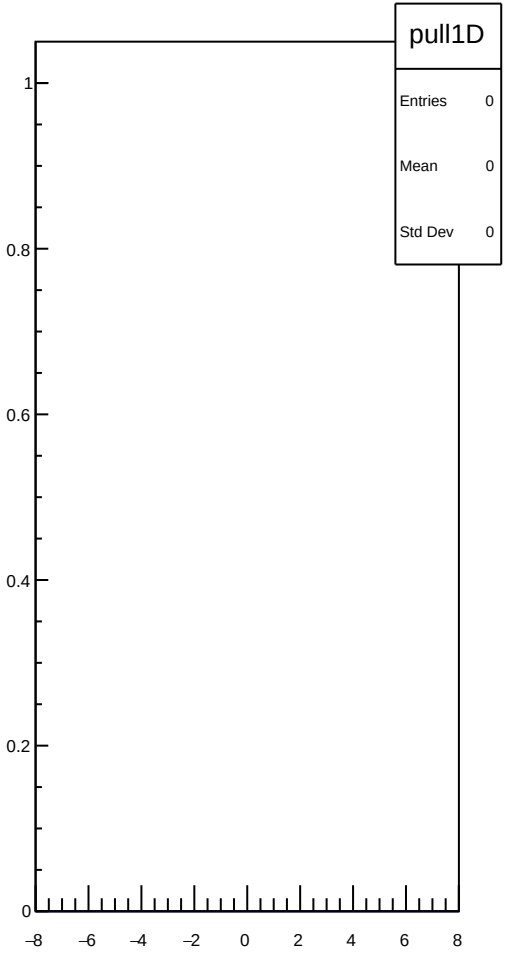
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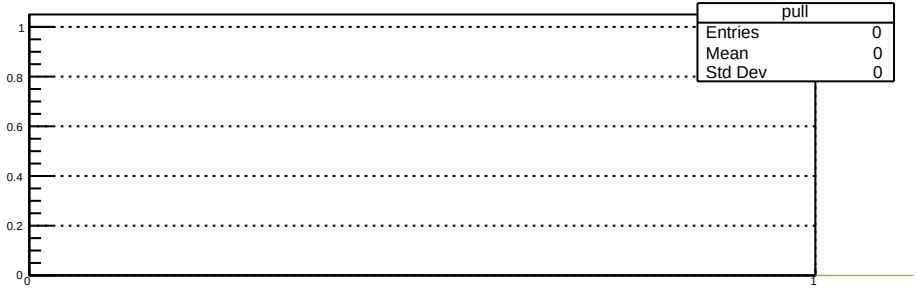
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Std Dev 0
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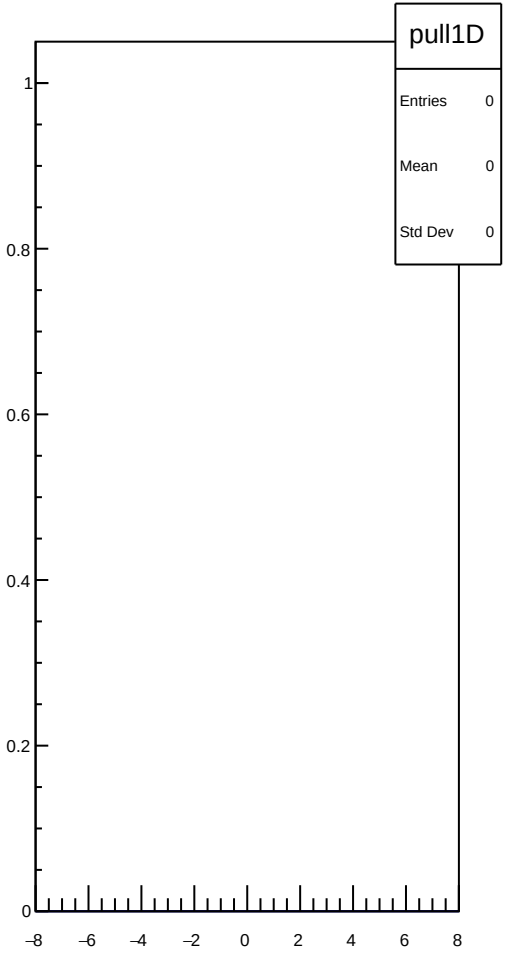
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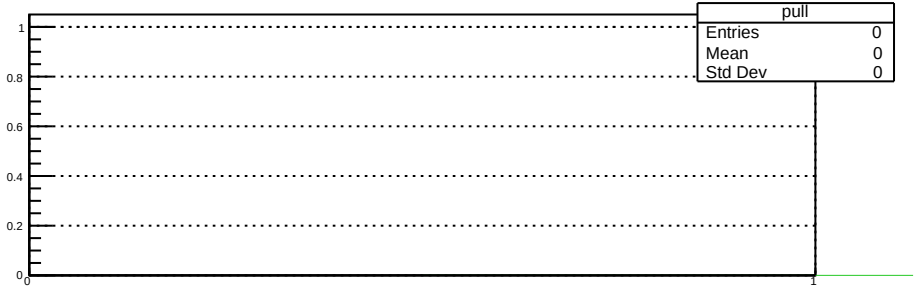
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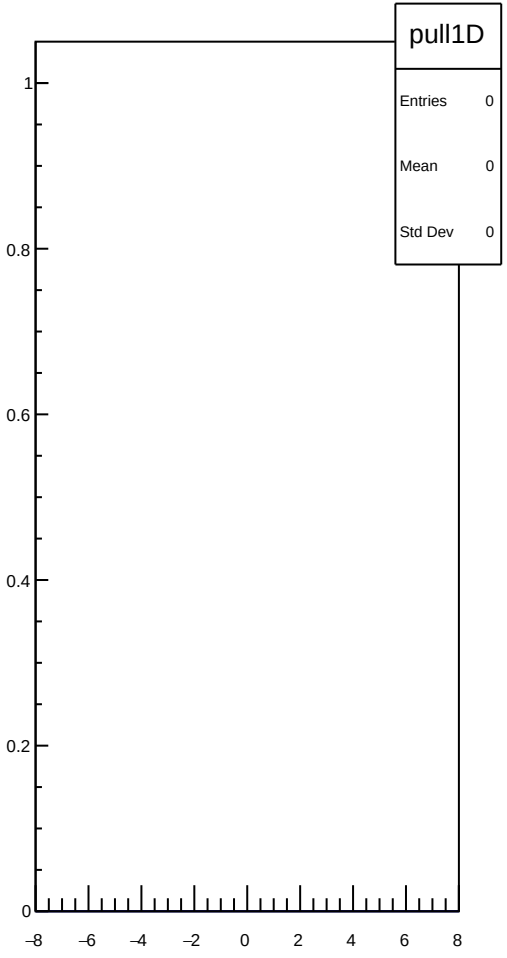
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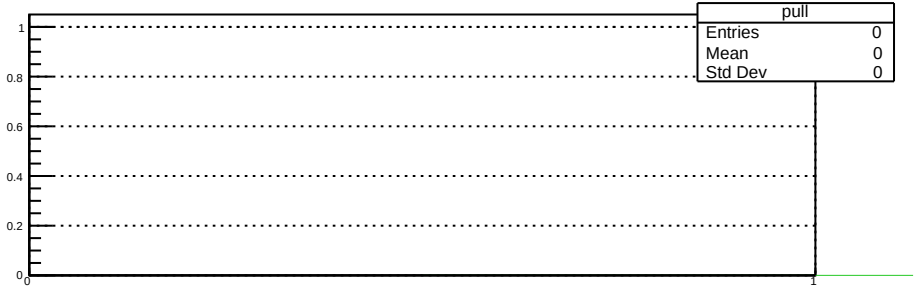
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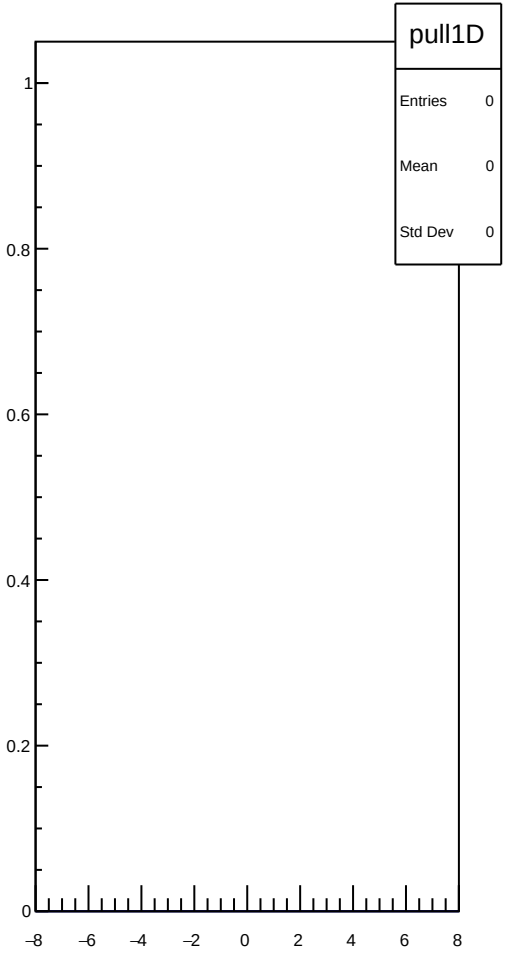
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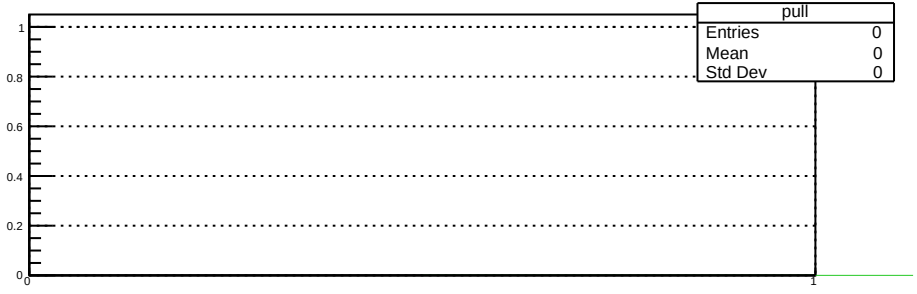
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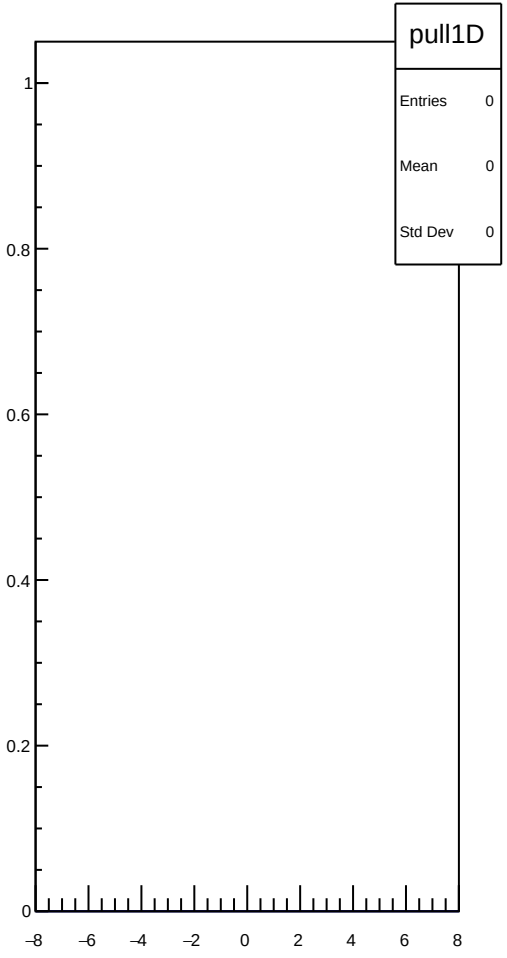
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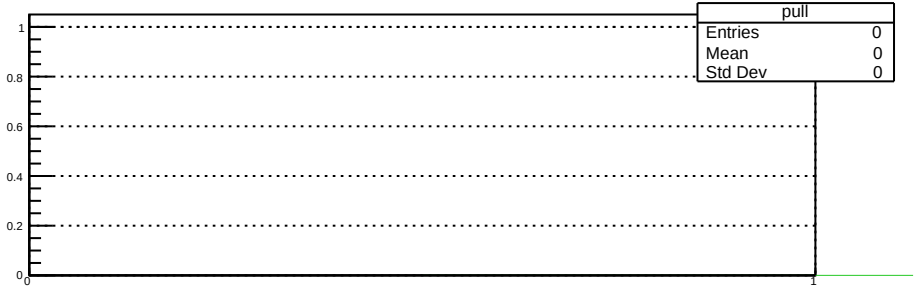
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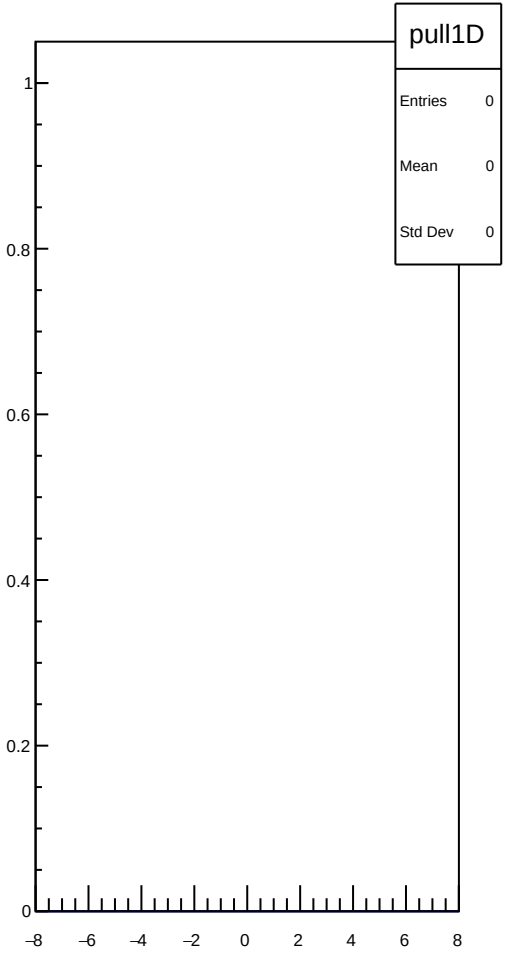
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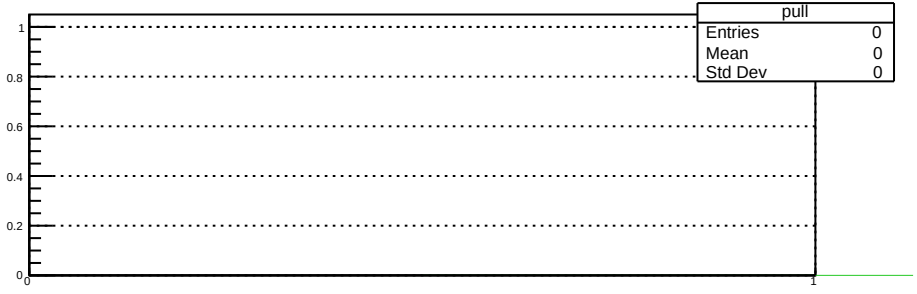
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Std Dev 0
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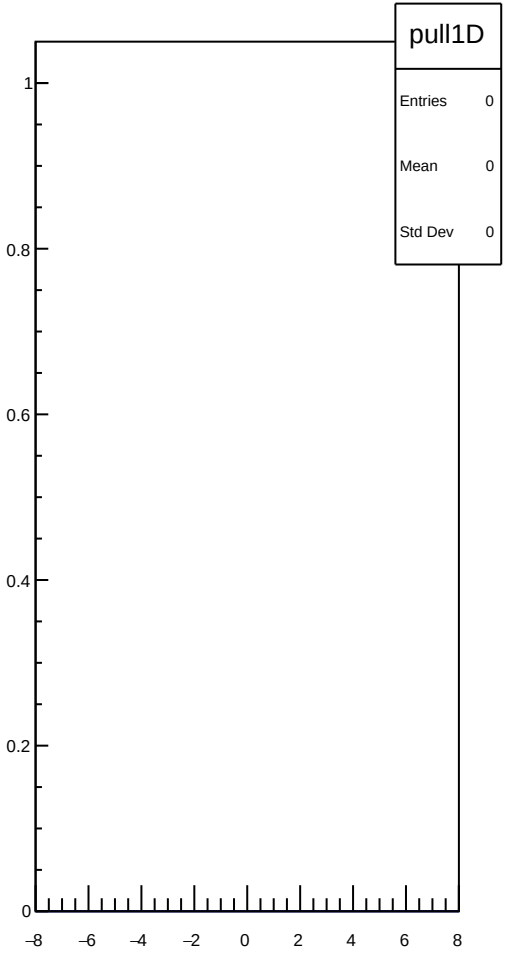
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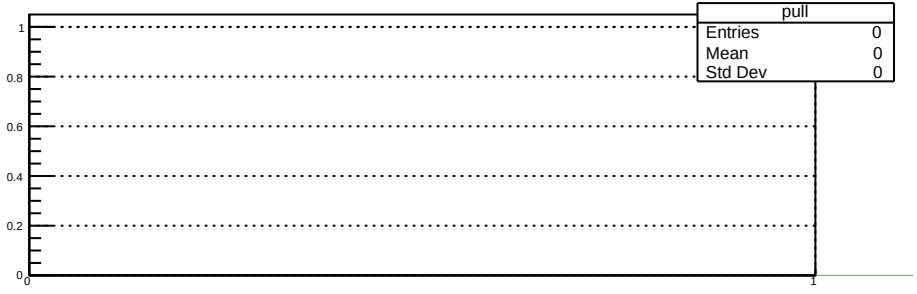
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Std Dev 0
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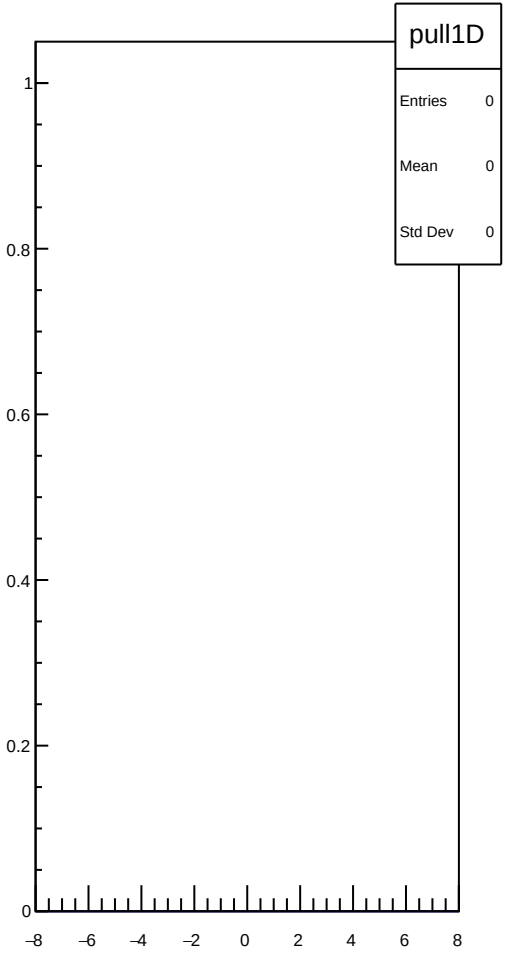
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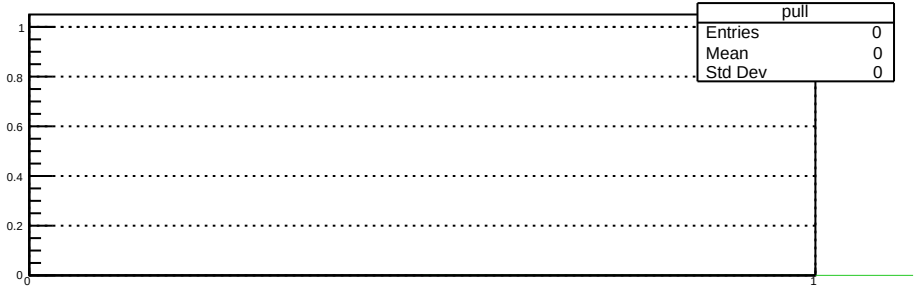
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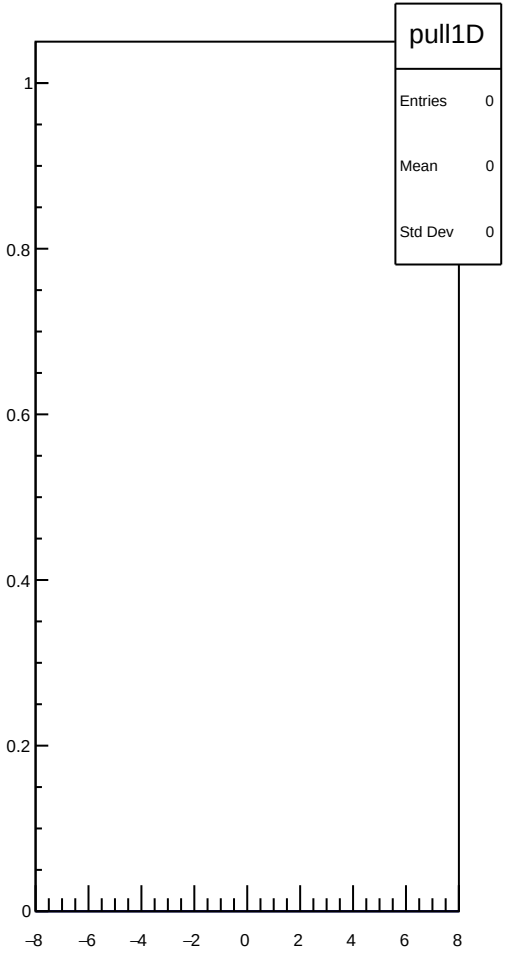
pull1D
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Mean 0
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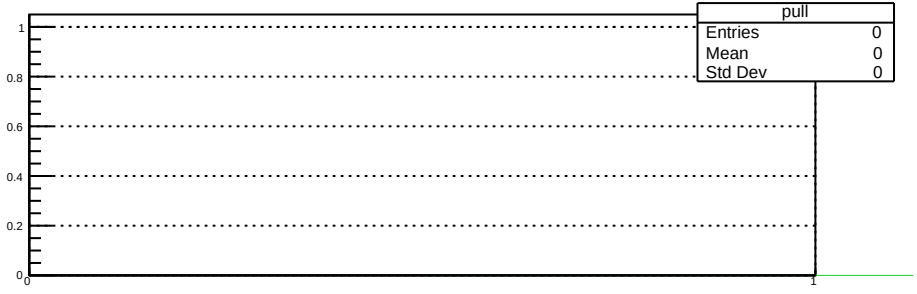
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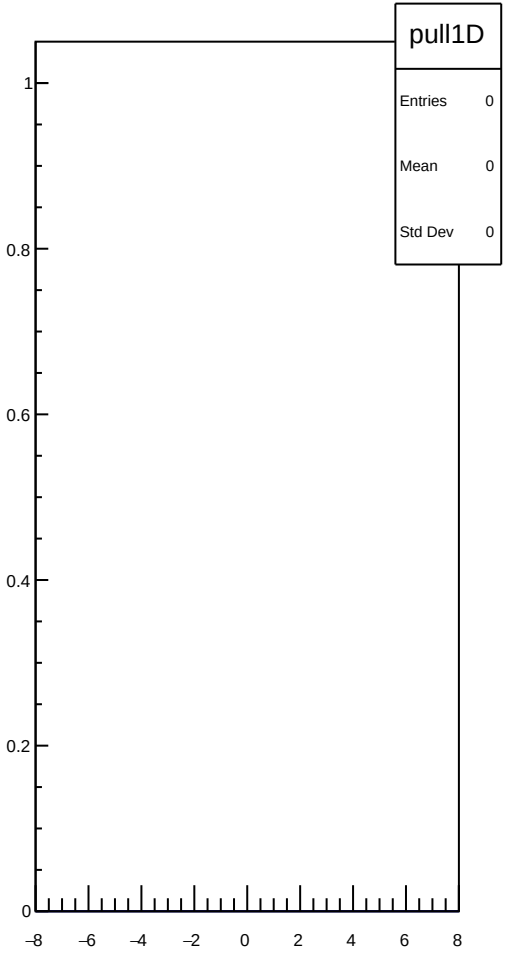
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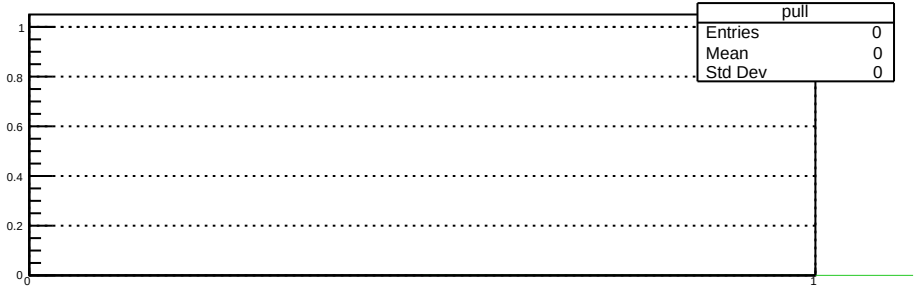
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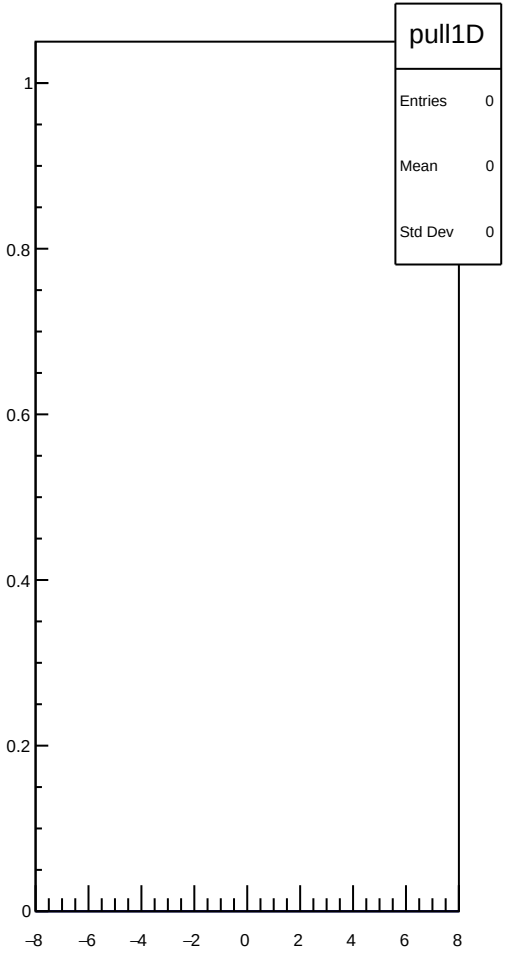
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Std Dev 0
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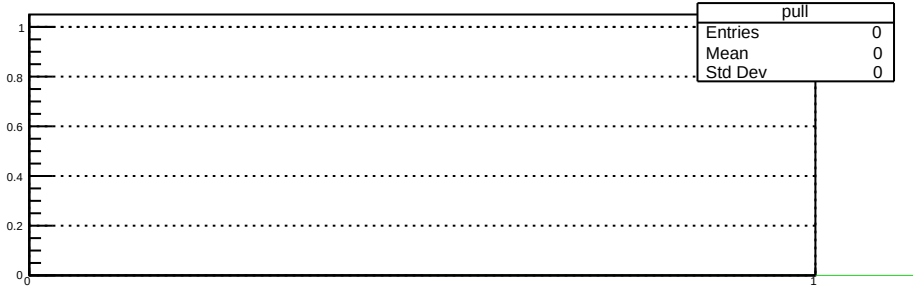
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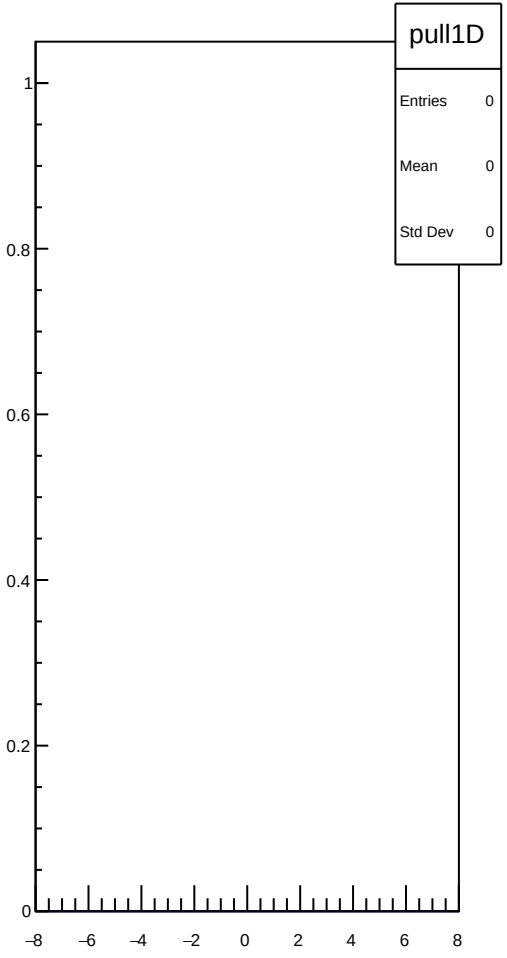
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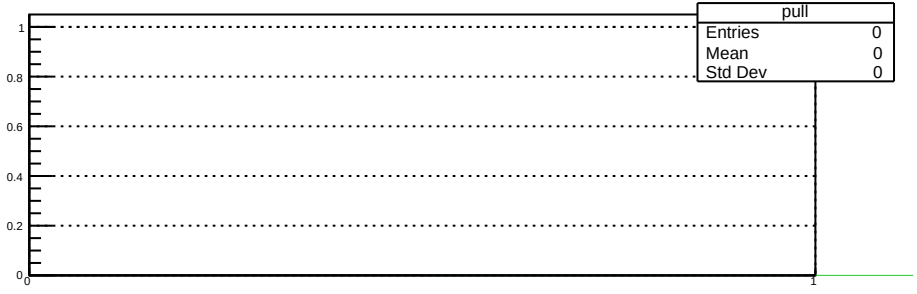
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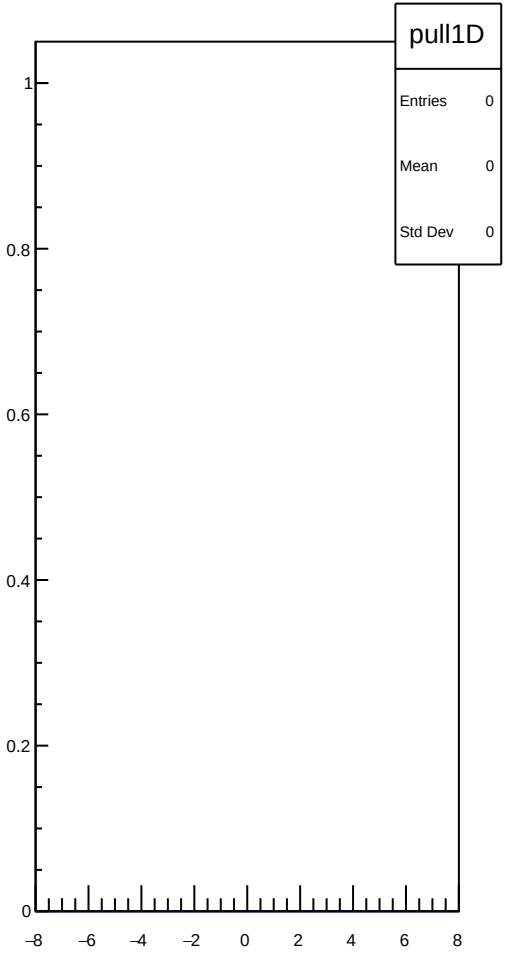
pull1D
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Mean 0
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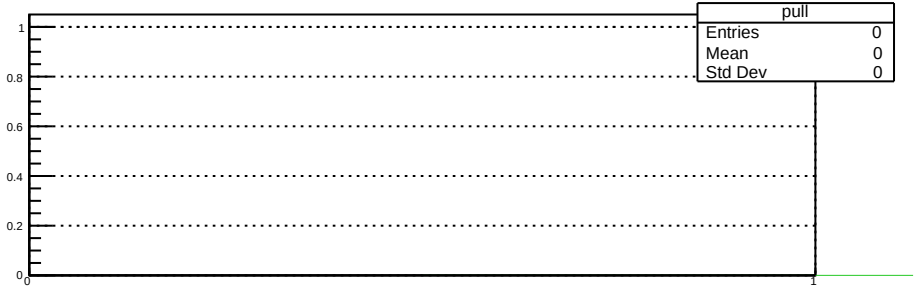
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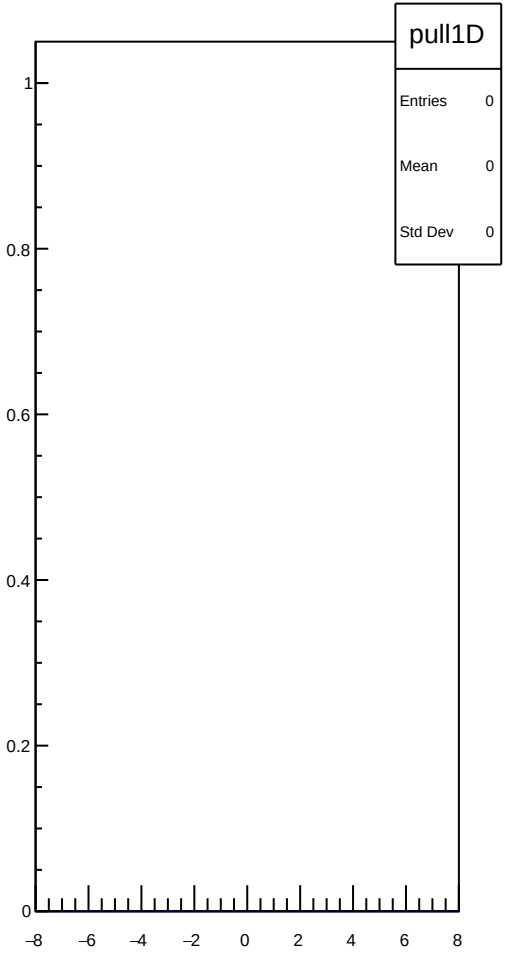
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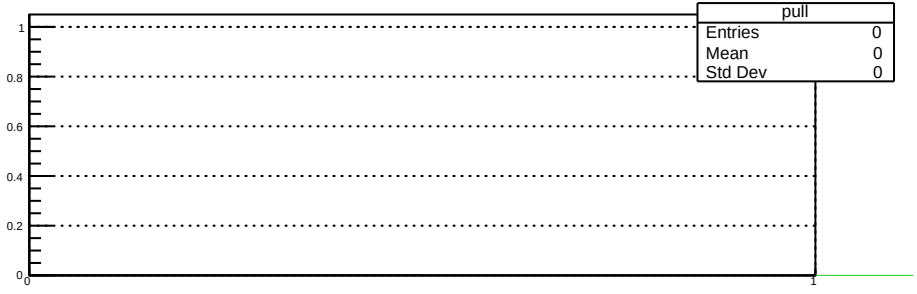
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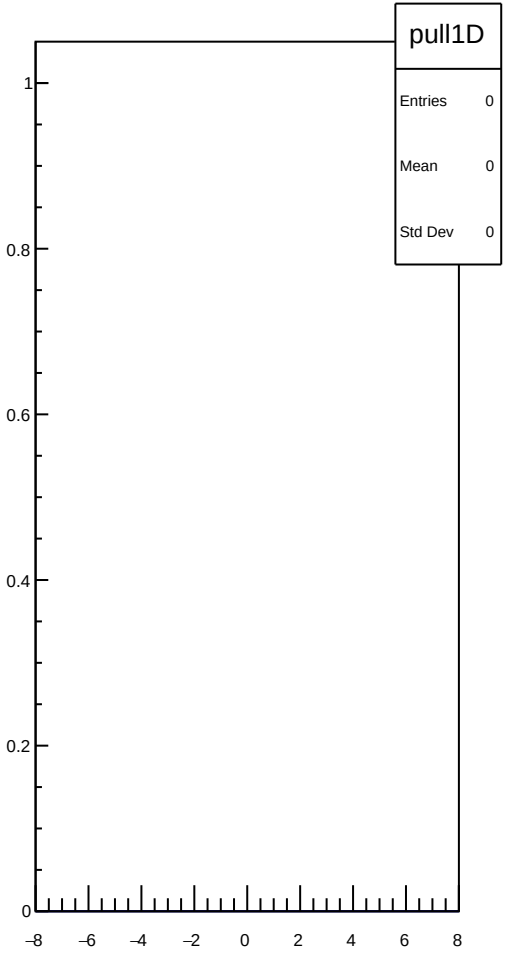
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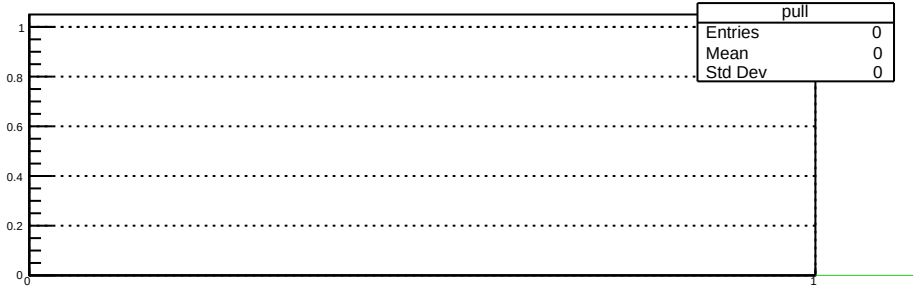
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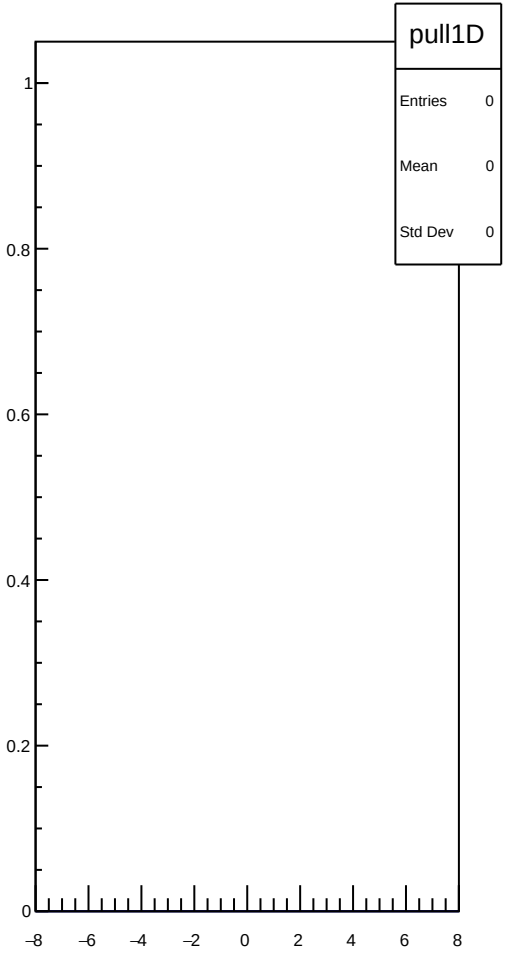
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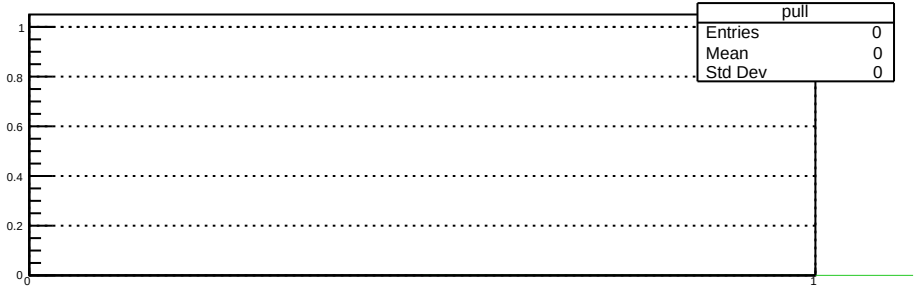
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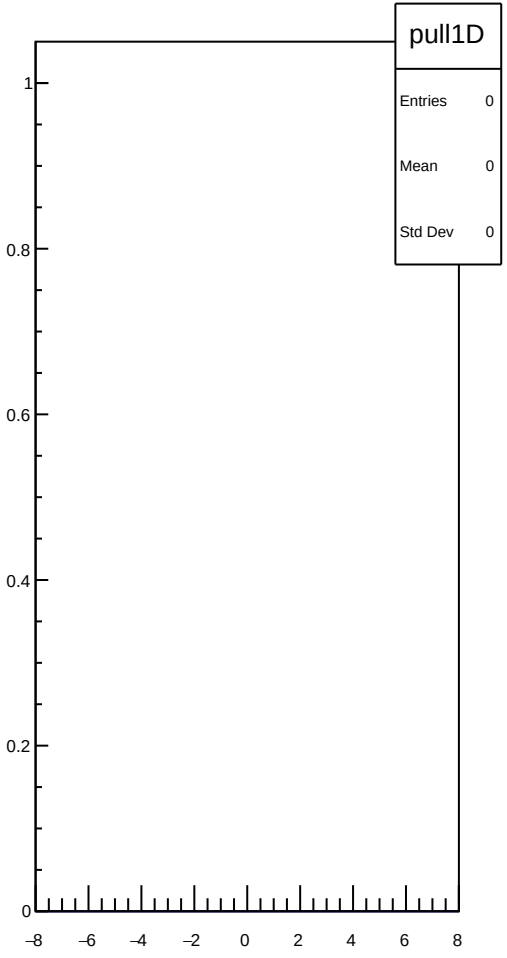
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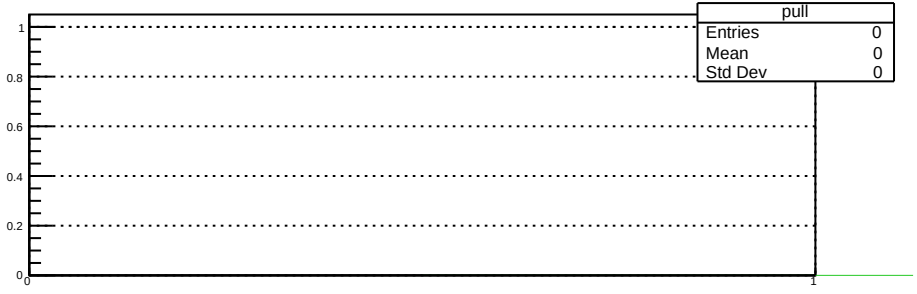
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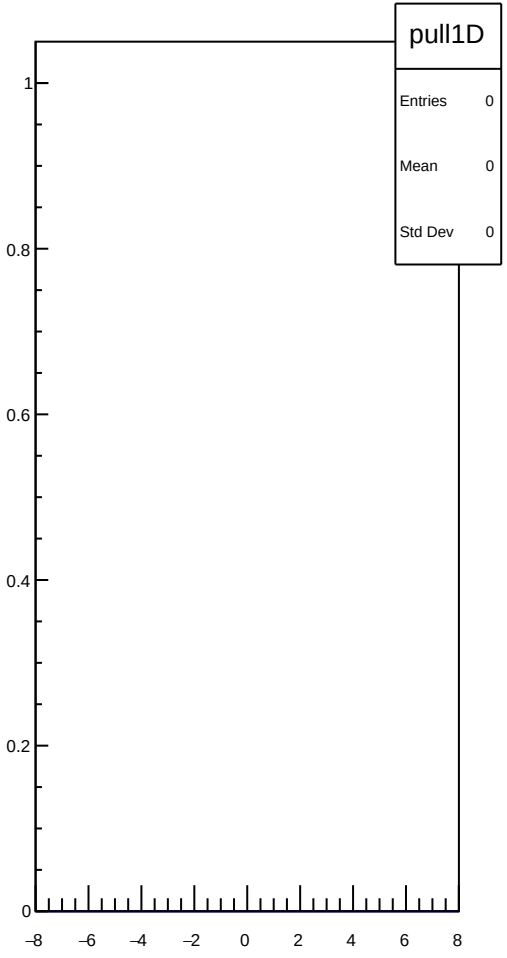
pull1D
Entries 0
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Std Dev 0
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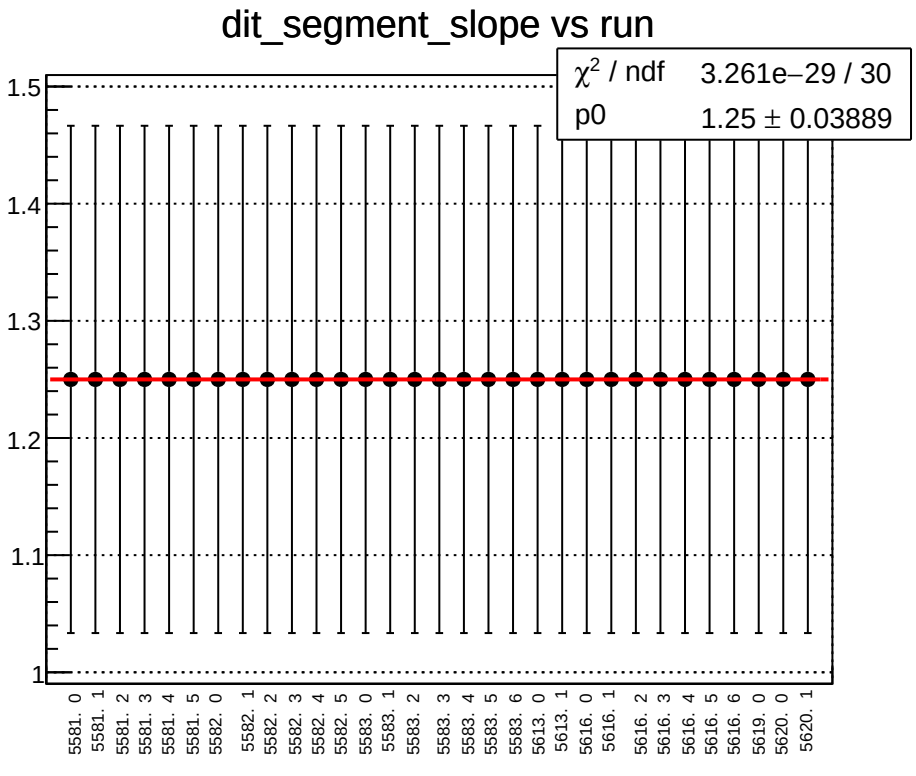
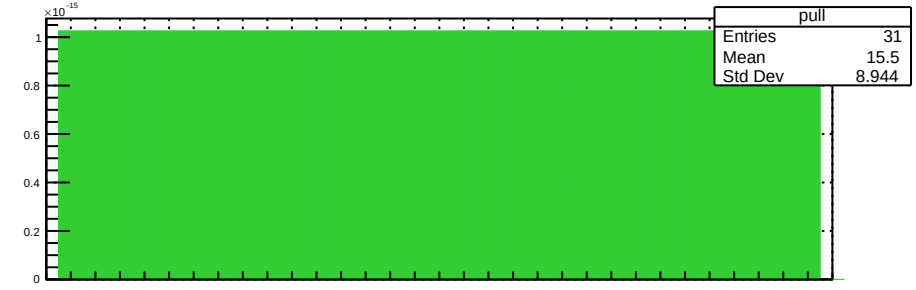
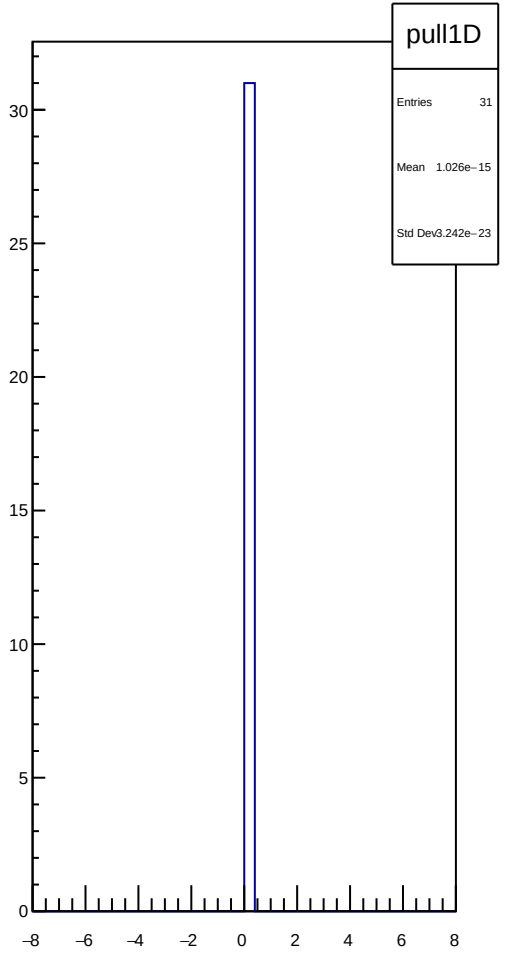

dit_segment_slope vs run
χ^2 / ndf 3.261e−29 / 30
p0 1.25 ± 0.03889
1.5
1.4
1.3
1.2
1.1
1
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1


×10 -15
1
0.8
0.6
0.4
0.2
0
pull
Entries 31
Mean 15.5
Std Dev 8.944


pull1D
Entries 31
Mean 1.026e−15
Std Dev3.242e−23
30
25
20
15
10
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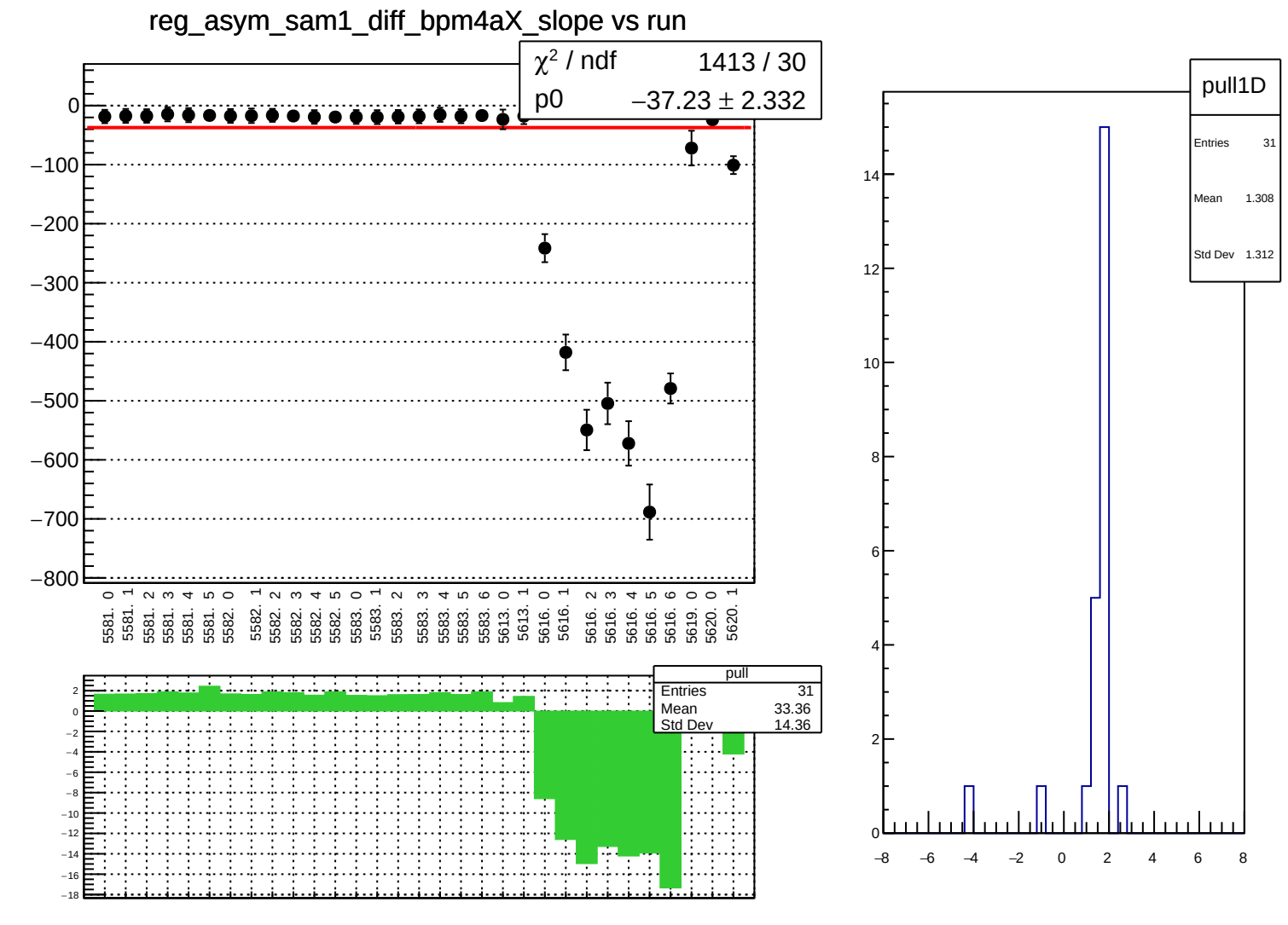
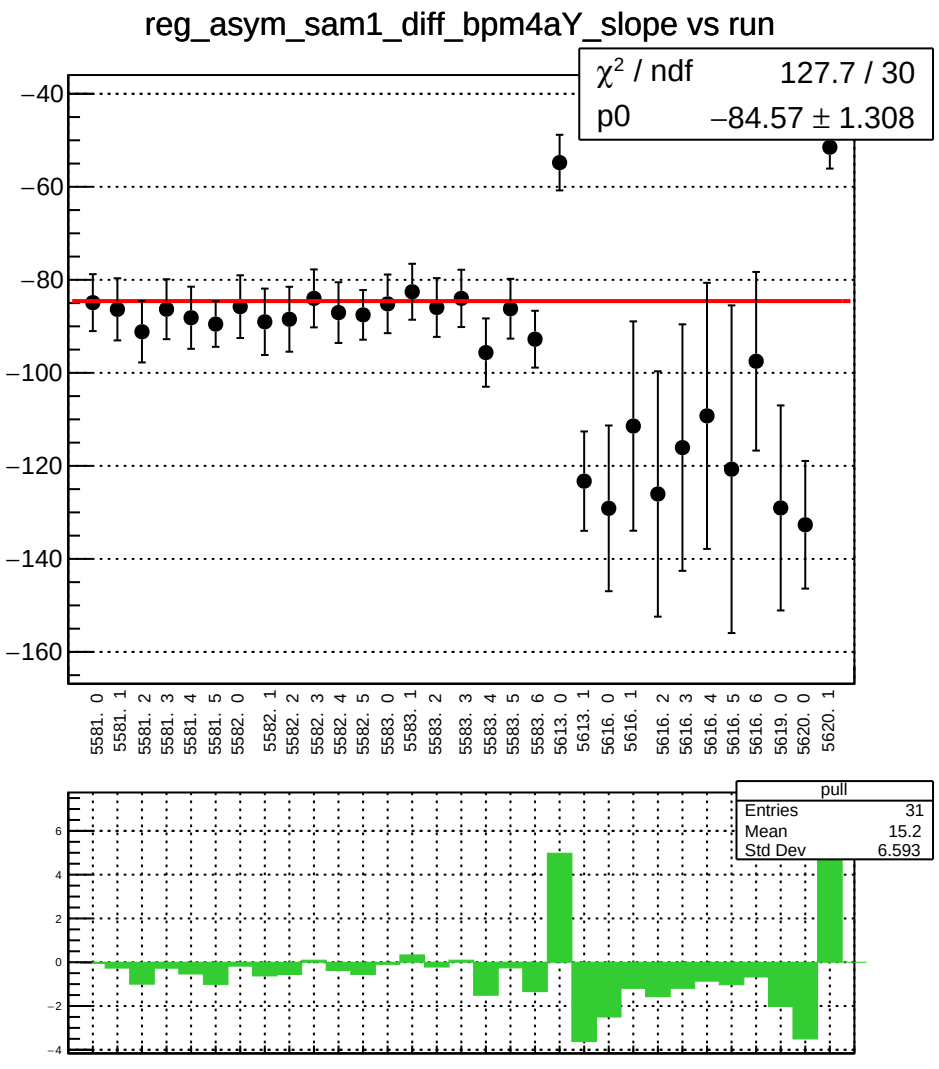
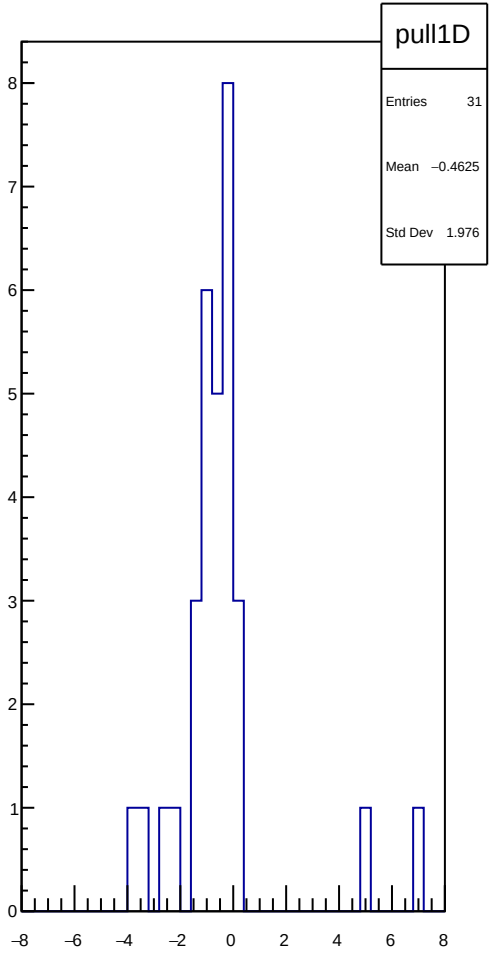
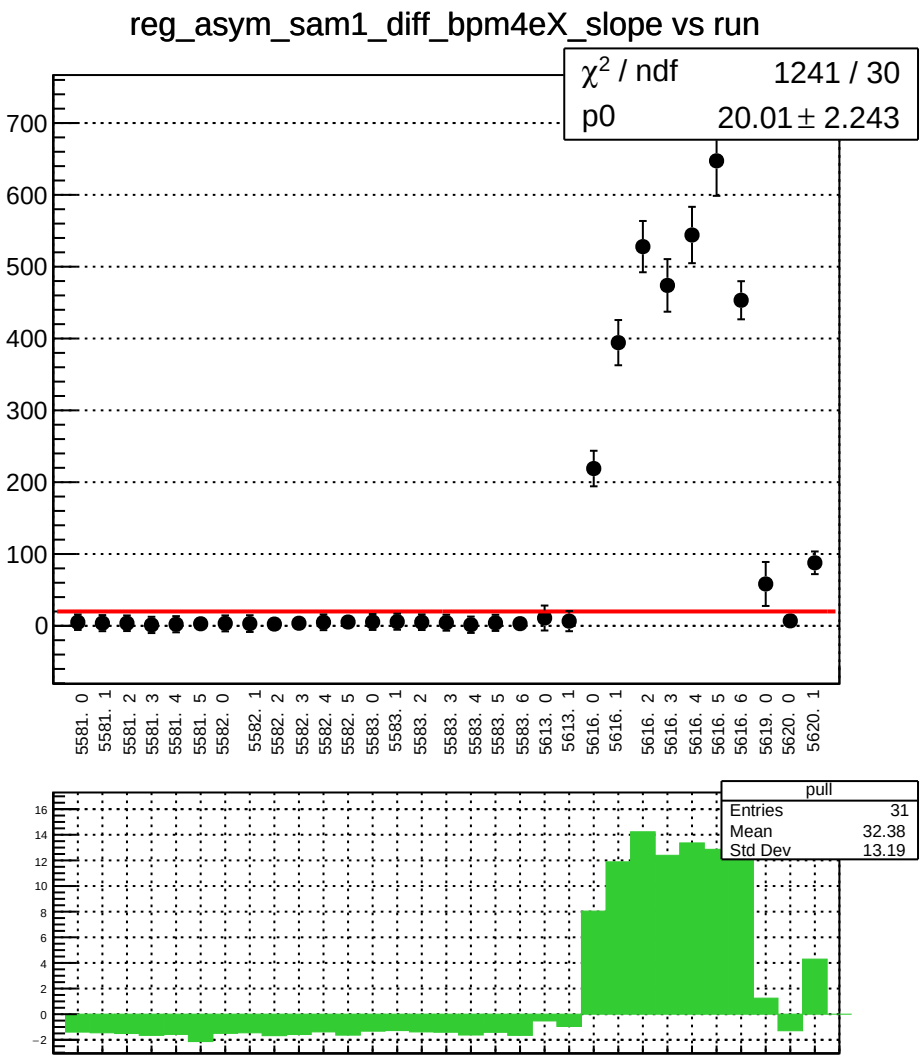
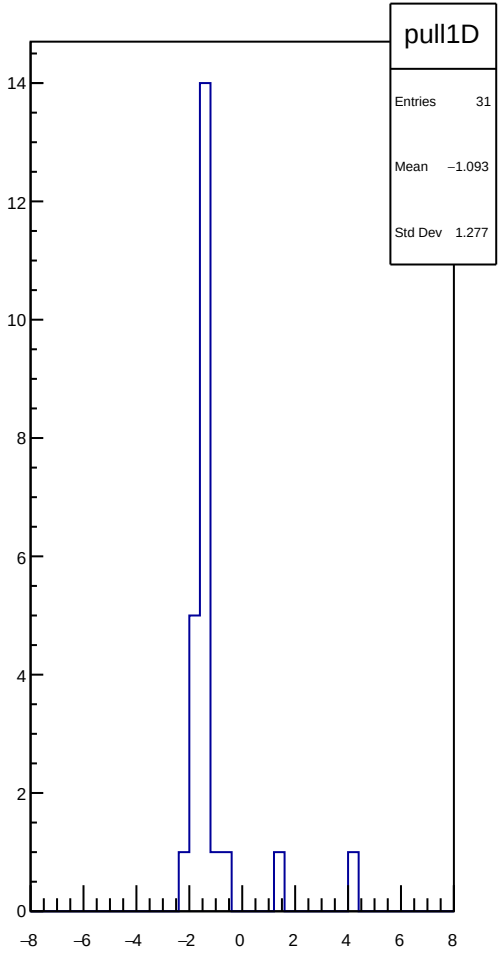
−8
−6
−4
−2
0
2
4
6
8

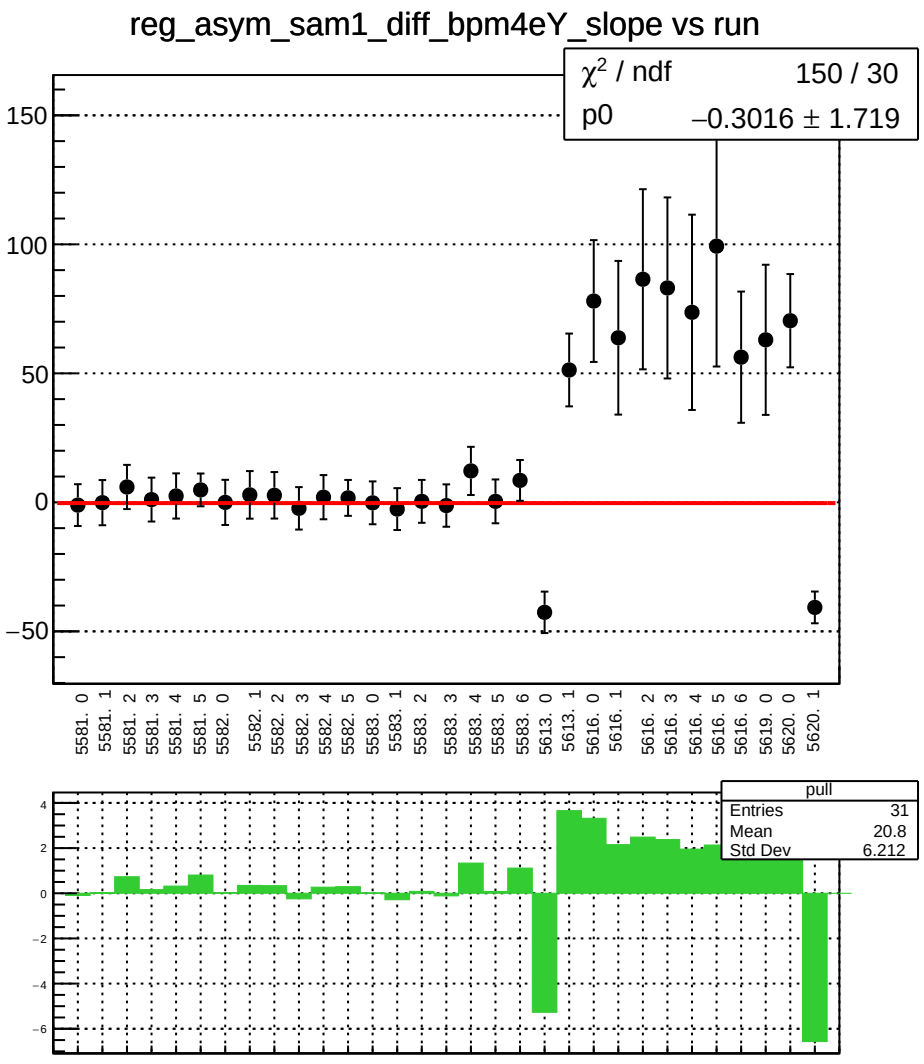

reg_asym_sam1_diff_bpm4aX_slope vs run
χ² / ndf 1413 / 30
p0 −37.23 ± 2.332
0
−100
−200
−300
−400
−500
−600
−700
−800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 33.36
Std Dev 14.36
2
0
−2
−4
−6
−8
−10
−12
−14
−16
−18
pull1D
Entries 31
Mean 1.308
Std Dev 1.312
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

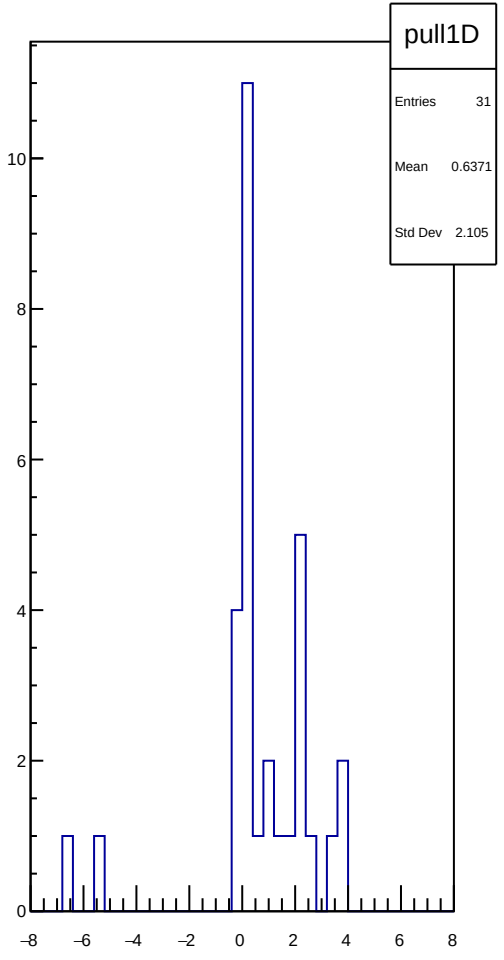

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 127.7 / 30
p0 −84.57 ± 1.308
−40
−60
−80
−100
−120
−140
−160
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 15.2
Std Dev 6.593
6
4
2
0
−2
−4

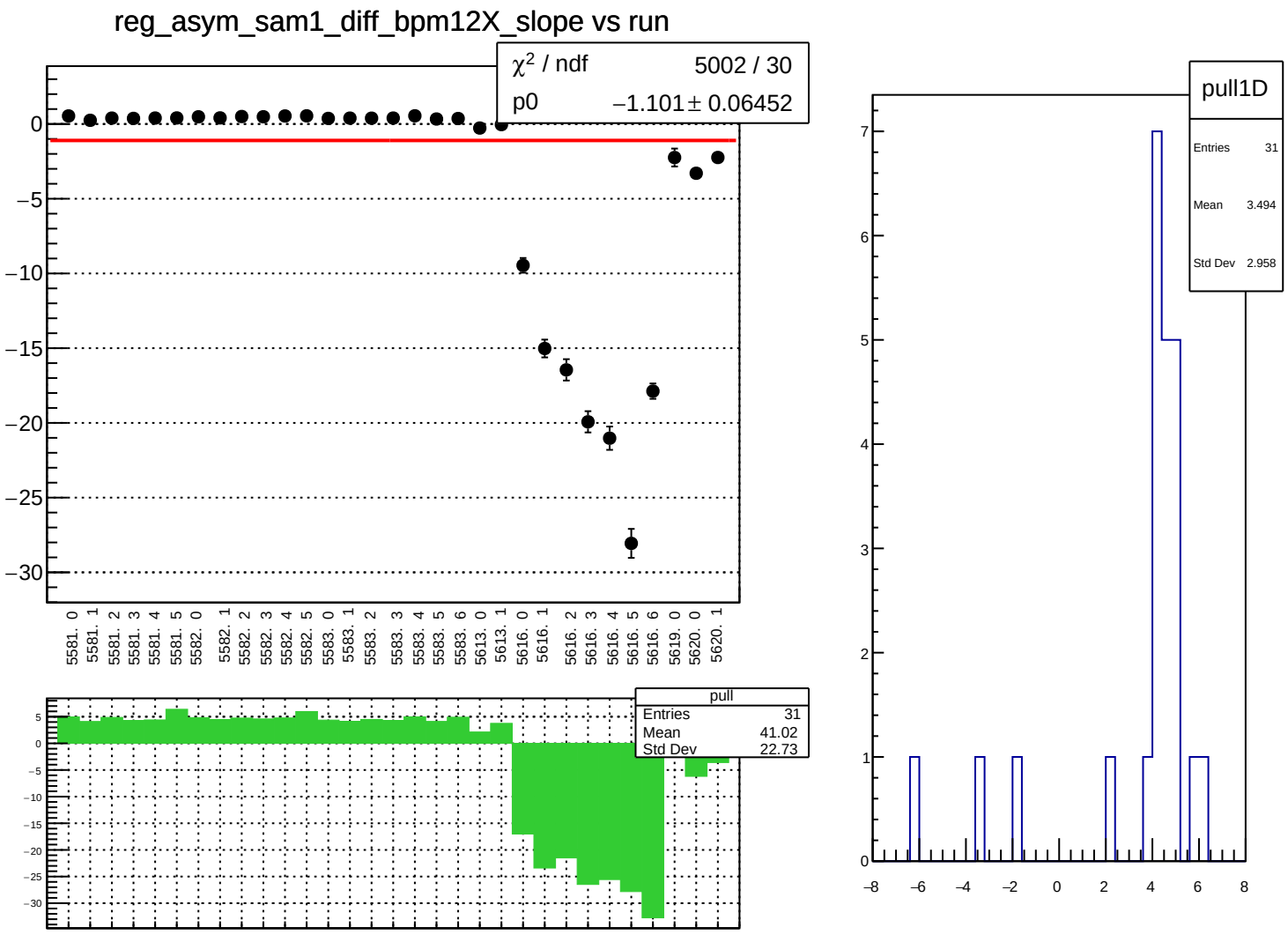

pull1D
Entries 31
Mean −0.4625
Std Dev 1.976
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

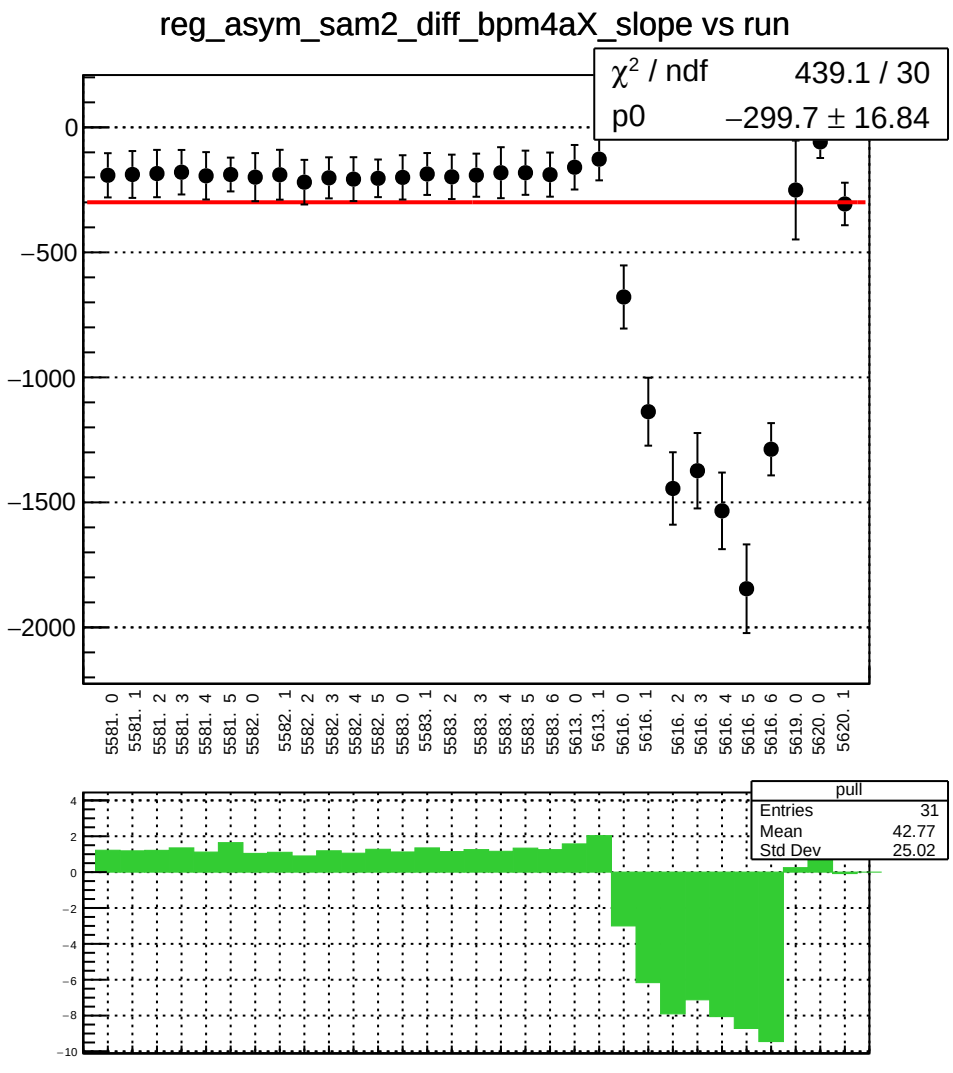

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 1241 / 30
p0 20.01 ± 2.243
700
600
500
400
300
200
100
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 32.38
Std Dev 13.19
16
14
12
10
8
6
4
2
0
−2

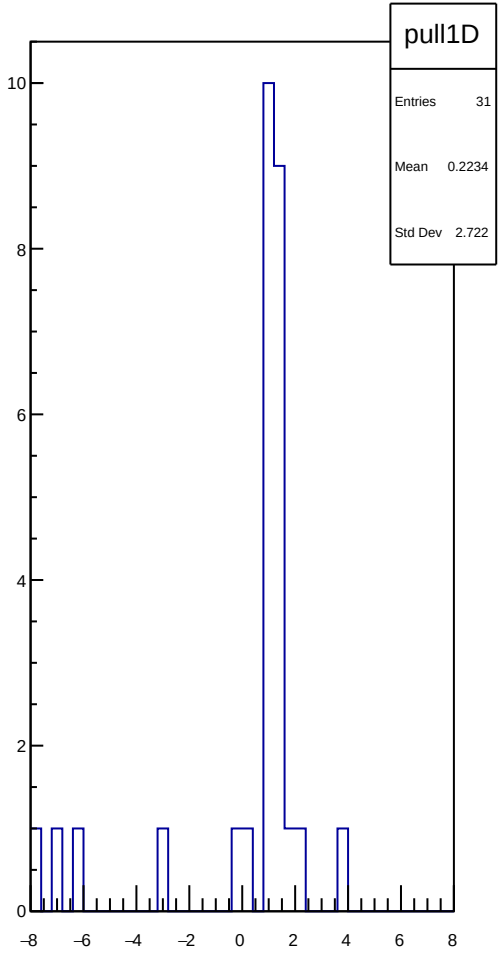

pull1D
Entries 31
Mean −1.093
Std Dev 1.277
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

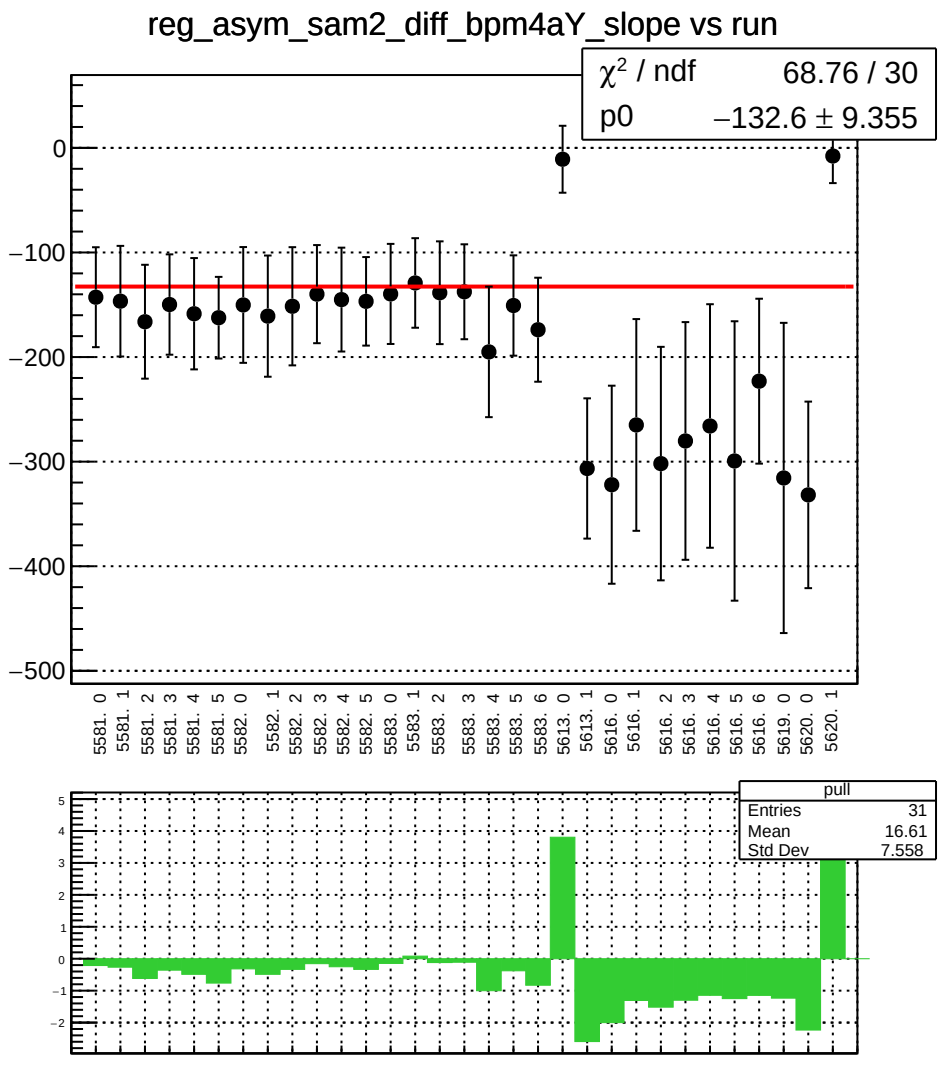

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 150 / 30
p0 −0.3016 ± 1.719
150
100
50
0
−50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 20.8
Std Dev 6.212
4
2
0
−2
−4
−6

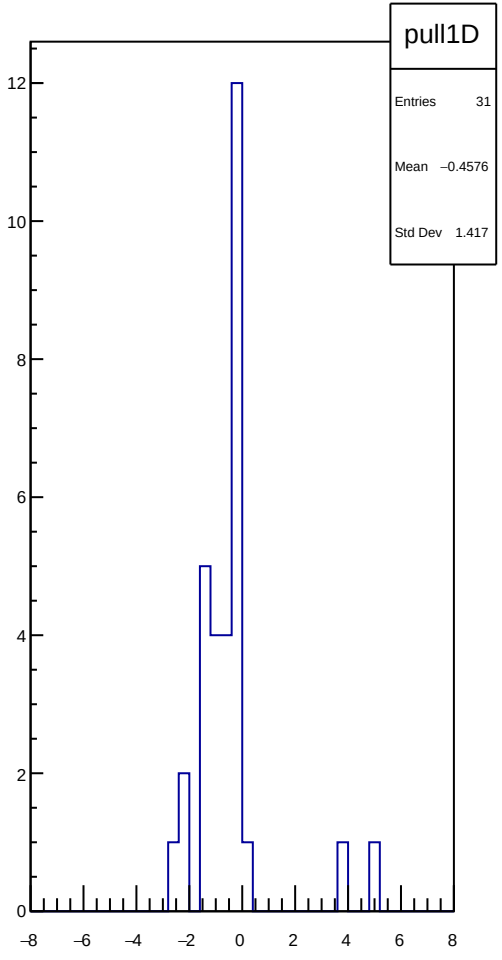

pull1D
Entries 31
Mean 0.6371
Std Dev 2.105
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

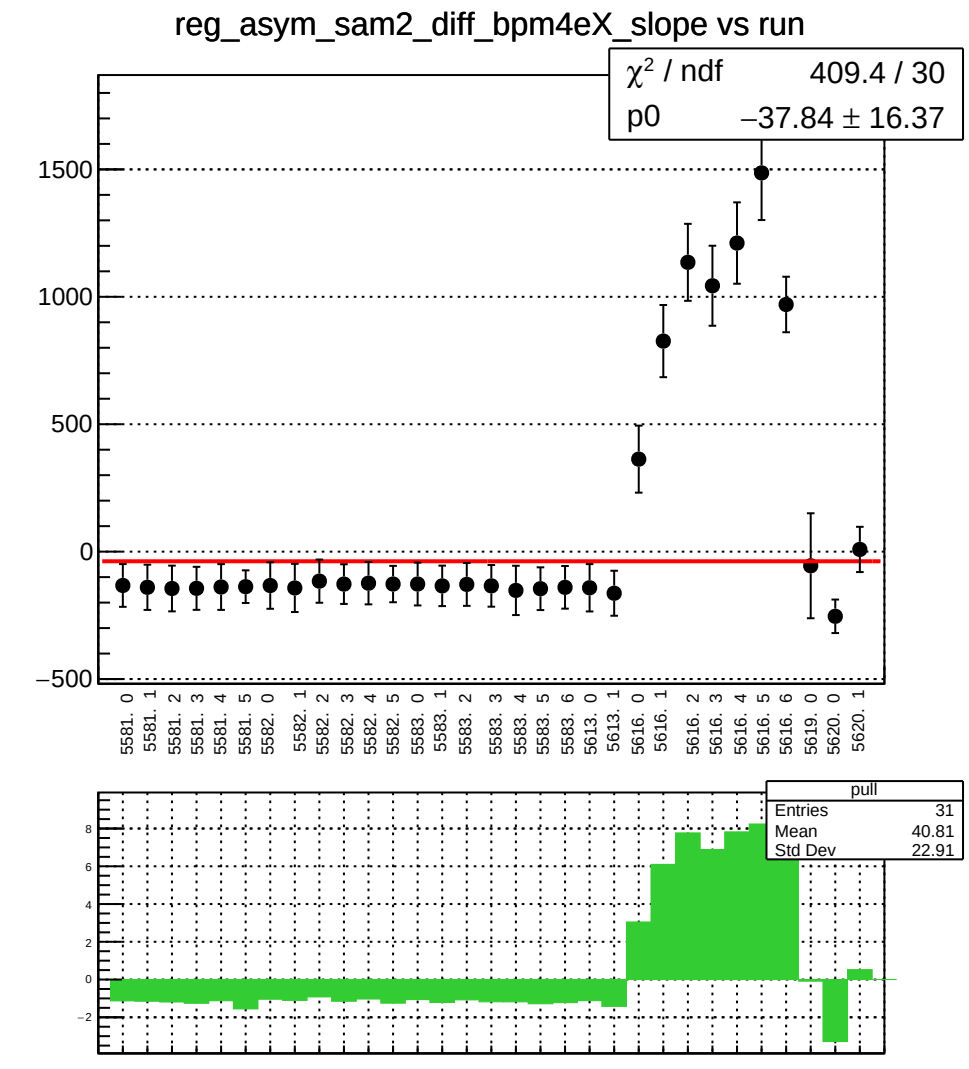

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 5002 / 30
p0 −1.101 ± 0.06452
0
−5
−10
−15
−20
−25
−30
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 41.02
Std Dev 22.73
5
0
−5
−10
−15
−20
−25
−30
pull1D
Entries 31
Mean 3.494
Std Dev 2.958
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

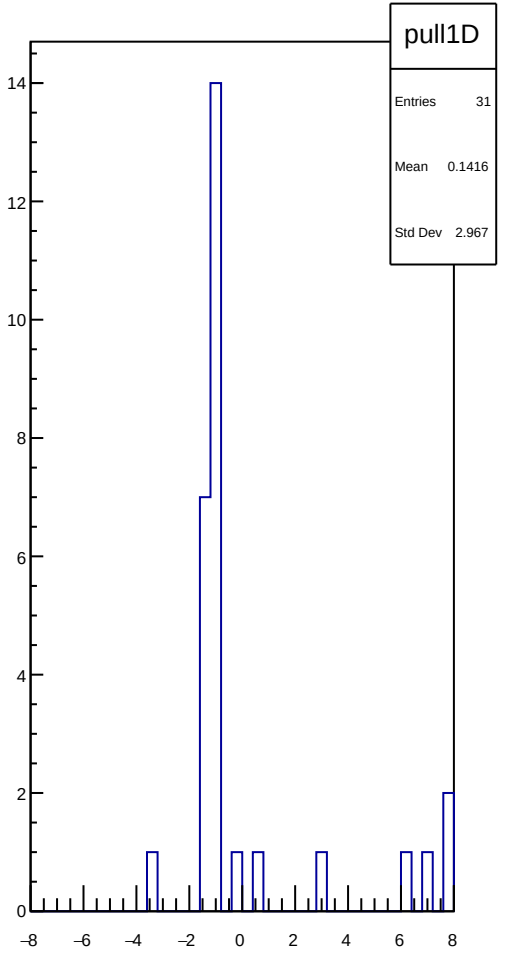

reg_asym_sam2_diff_bpm4aX_slope vs run
χ² / ndf 439.1 / 30
p0 −299.7 ± 16.84
0
−500
−1000
−1500
−2000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 42.77
Std Dev 25.02
4
2
0
−2
−4
−6
−8
−10

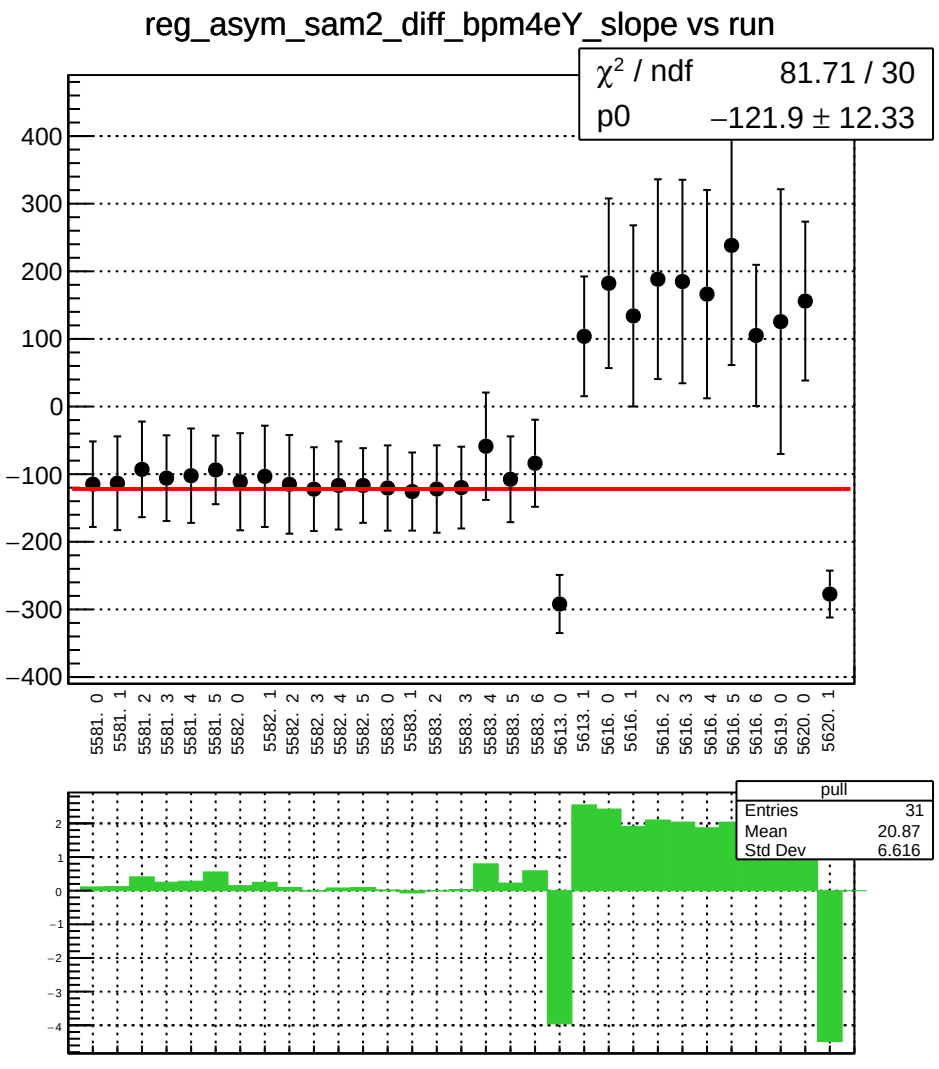

pull1D
Entries 31
Mean 0.2234
Std Dev 2.722
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

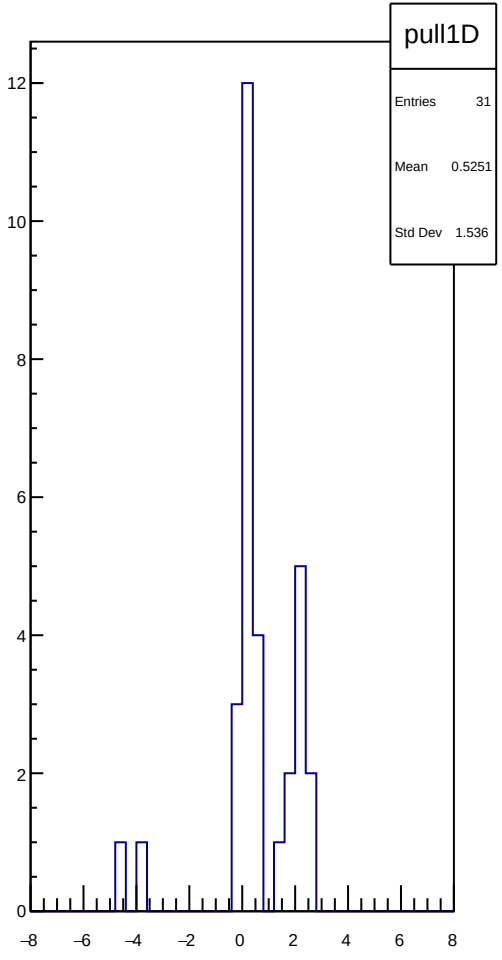

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 68.76 / 30
p0 −132.6 ± 9.355
0
−100
−200
−300
−400
−500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 16.61
Std Dev 7.558
5
4
3
2
1
0
−1
−2

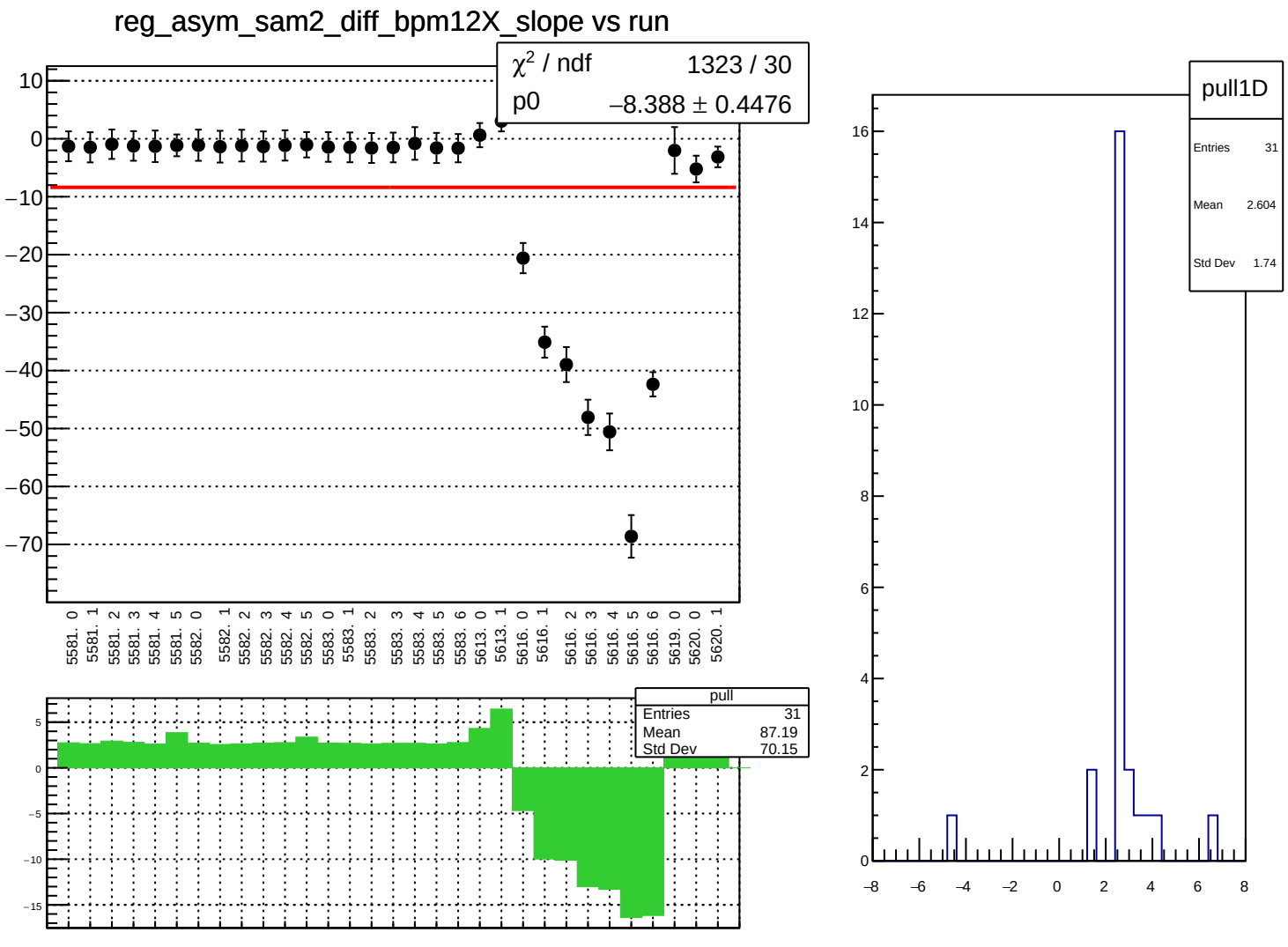

pull1D
Entries 31
Mean −0.4576
Std Dev 1.417
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

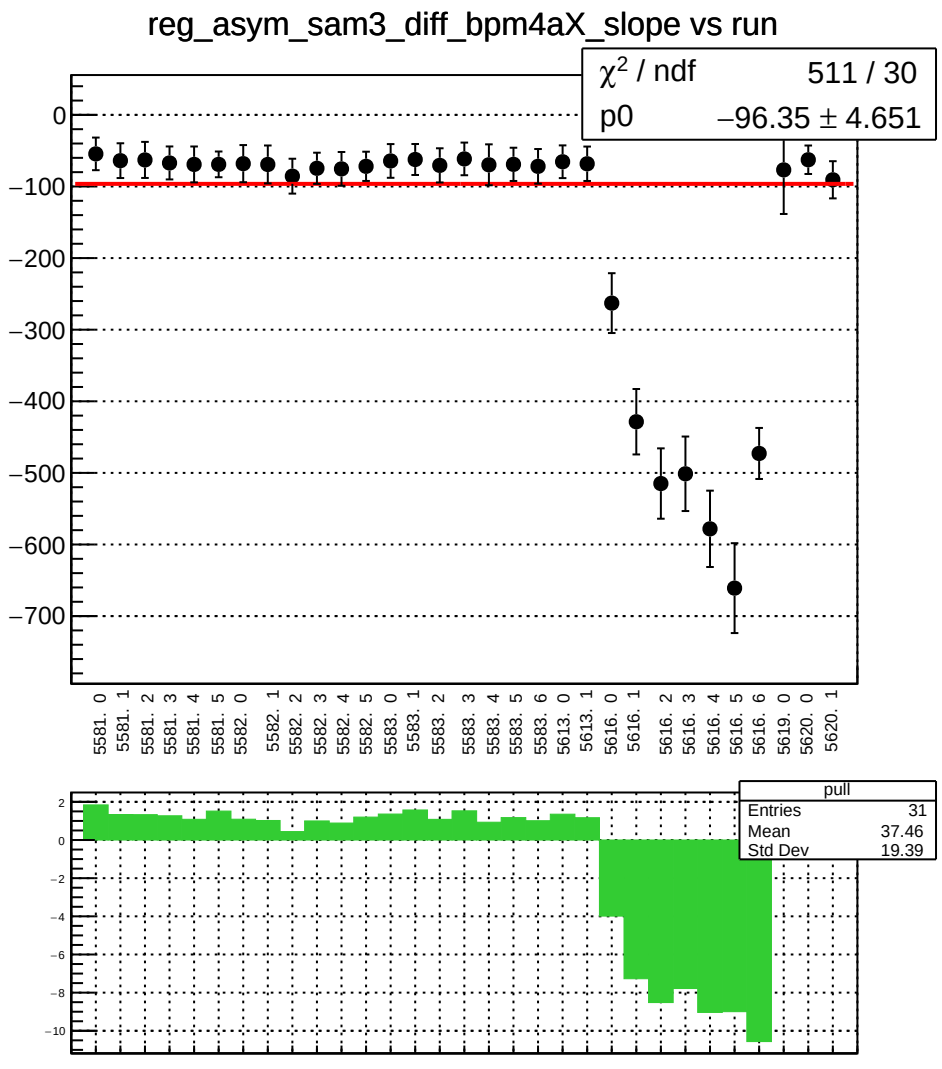

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 409.4 / 30
p0 −37.84 ± 16.37
1500
1000
500
0
−500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 40.81
Std Dev 22.91
8
6
4
2
0
−2

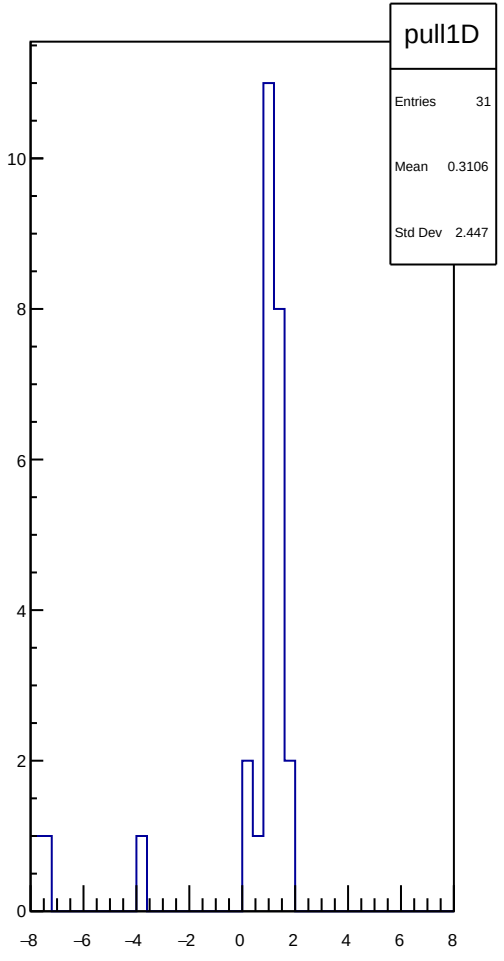

pull1D
Entries 31
Mean 0.1416
Std Dev 2.967
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

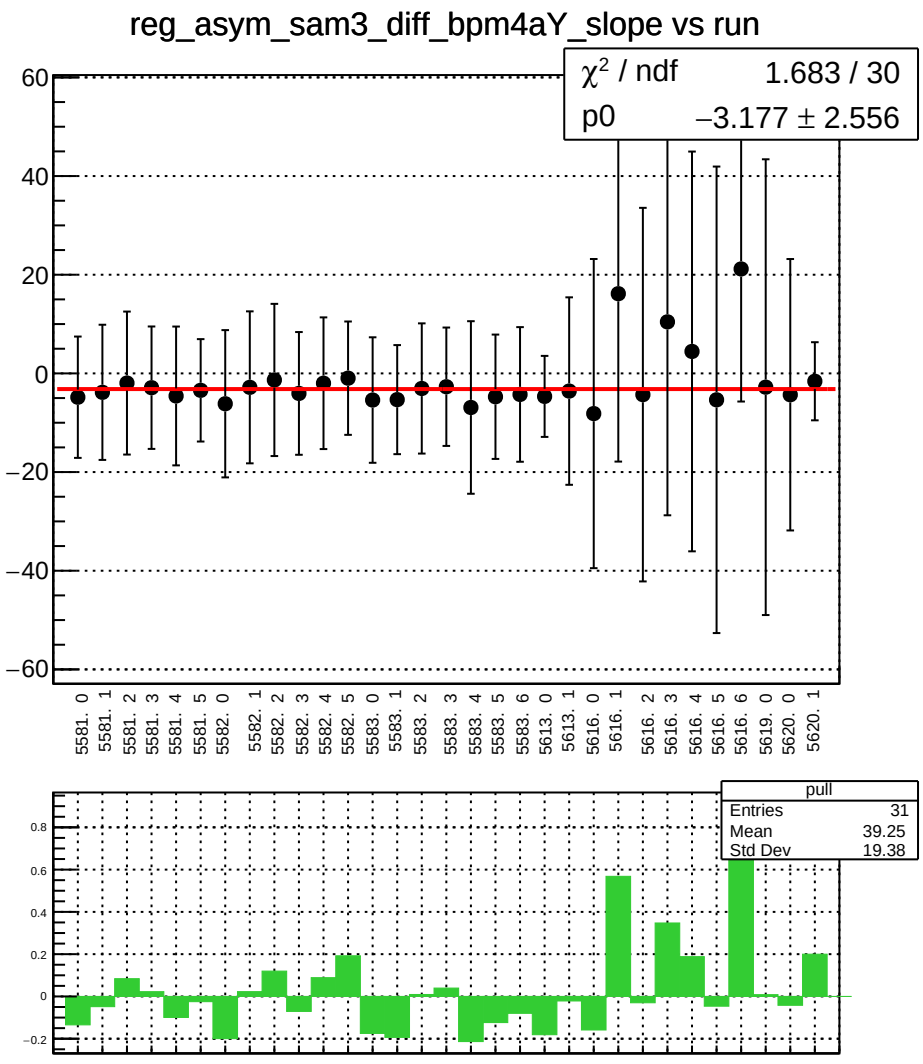

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 81.71 / 30
p0 −121.9 ± 12.33
400
300
200
100
0
−100
−200
−300
−400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 20.87
Std Dev 6.616
2
1
0
−1
−2
−3
−4

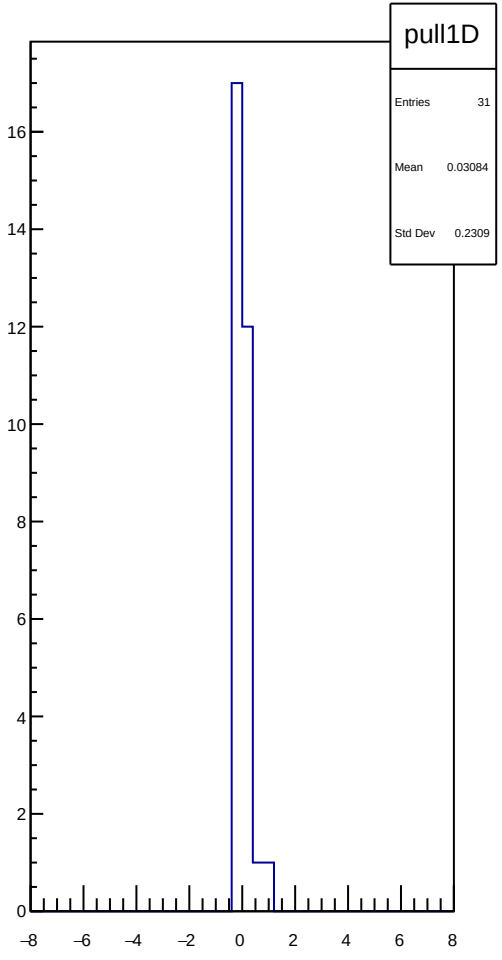

pull1D
Entries 31
Mean 0.5251
Std Dev 1.536
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

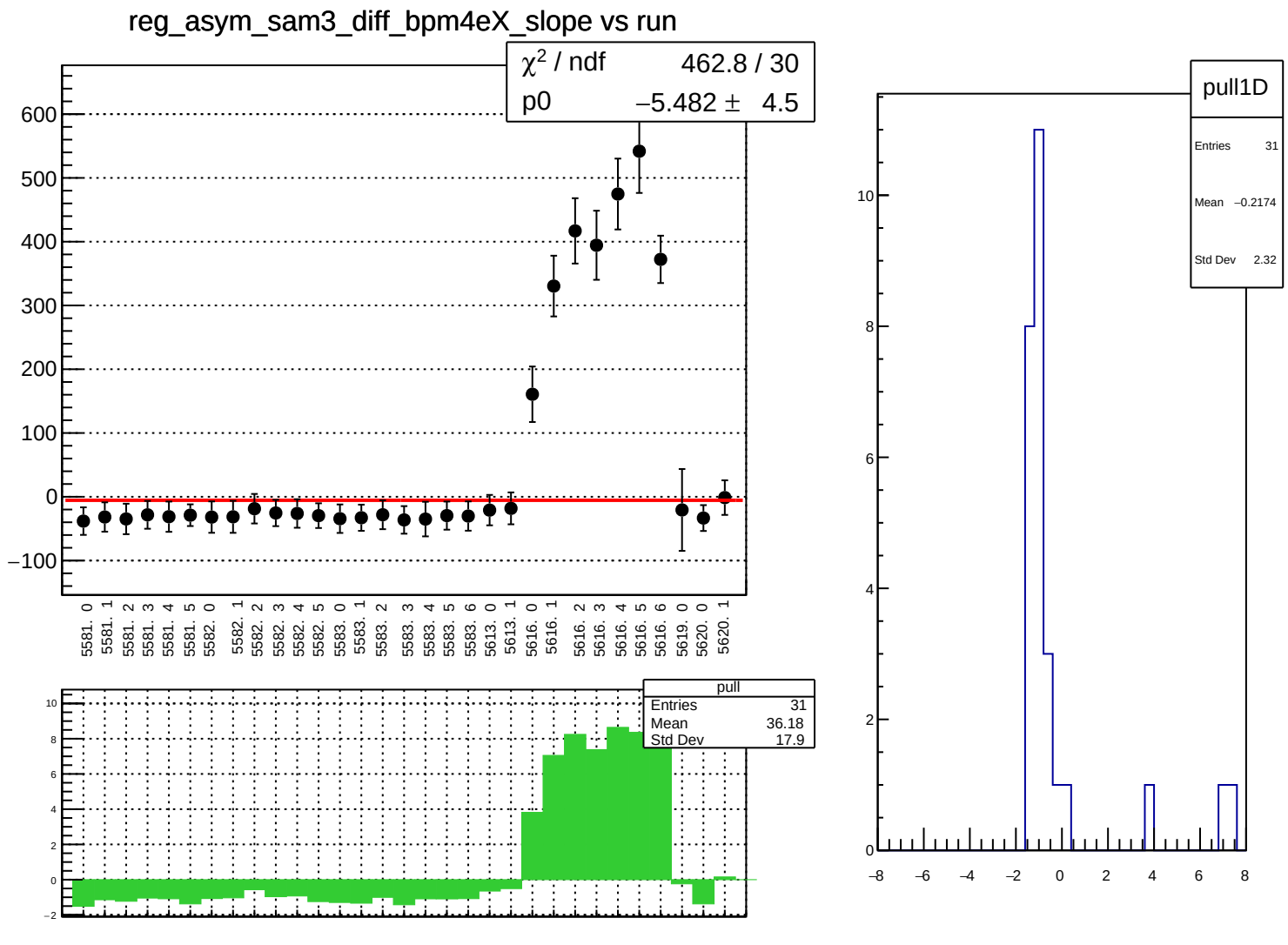

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 1323 / 30
p0 −8.388 ± 0.4476
10
0
−10
−20
−30
−40
−50
−60
−70
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 87.19
Std Dev 70.15
5
0
−5
−10
−15
pull1D
Entries 31
Mean 2.604
Std Dev 1.74
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

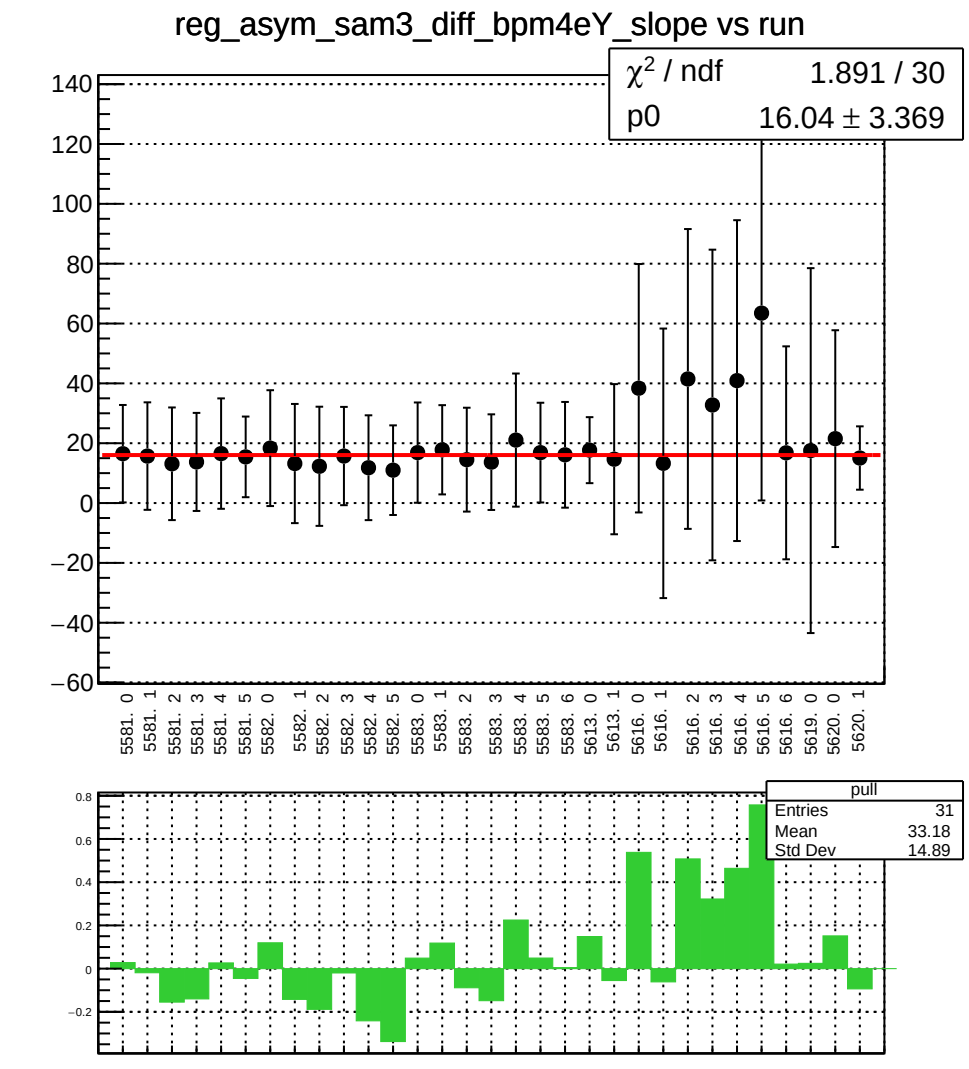

reg_asym_sam3_diff_bpm4aX_slope vs run
χ² / ndf 511 / 30
p0 −96.35 ± 4.651
0
−100
−200
−300
−400
−500
−600
−700
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 37.46
Std Dev 19.39
2
0
−2
−4
−6
−8
−10

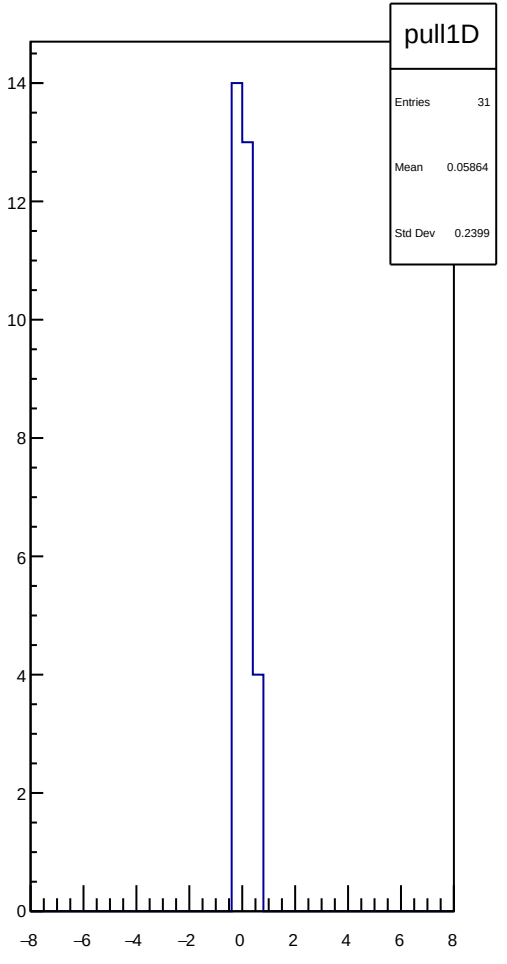

pull1D
Entries 31
Mean 0.3106
Std Dev 2.447
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

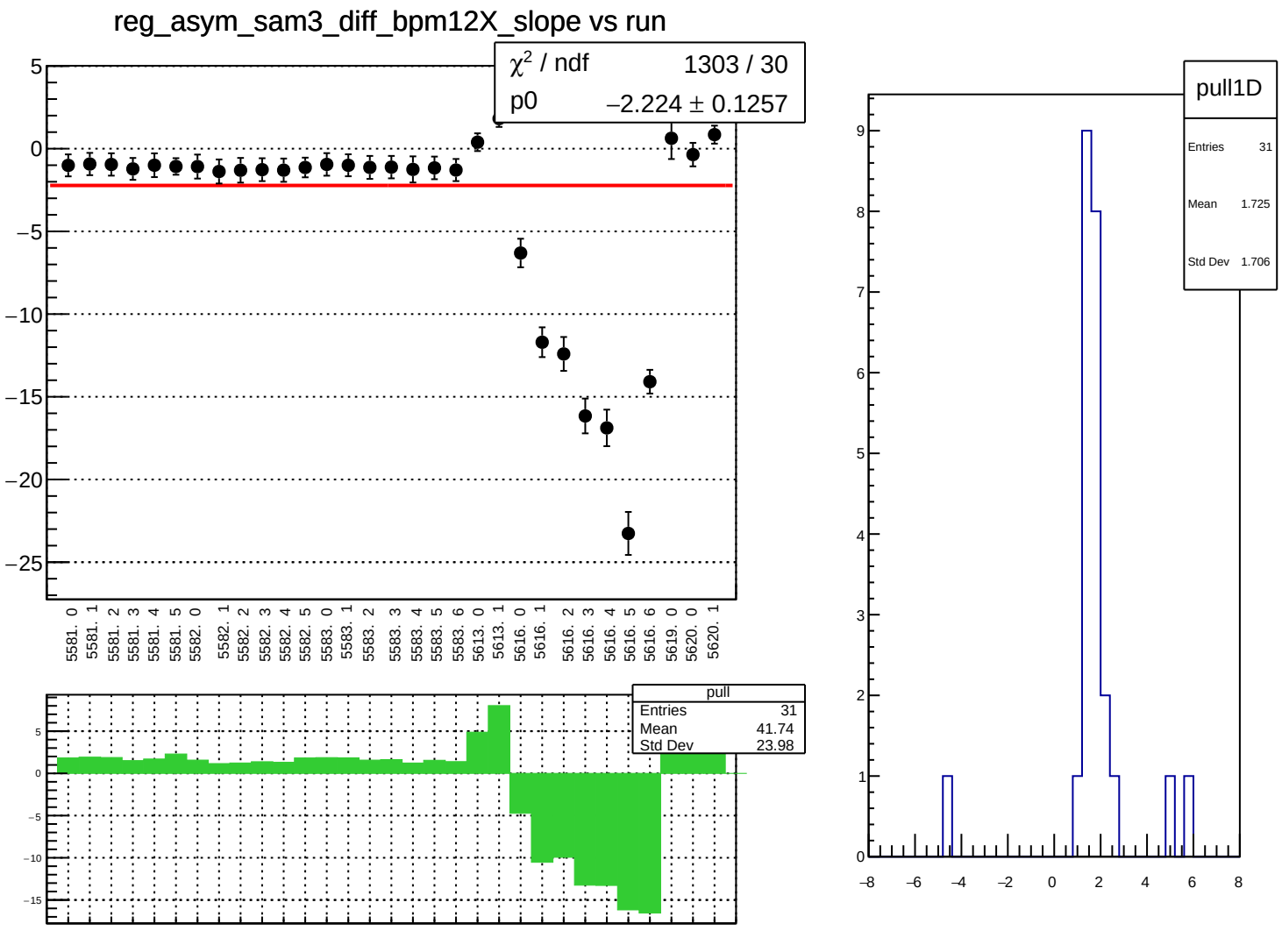

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 1.683 / 30
p0 −3.177 ± 2.556
60
40
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 39.25
Std Dev 19.38
0.8
0.6
0.4
0.2
0
−0.2

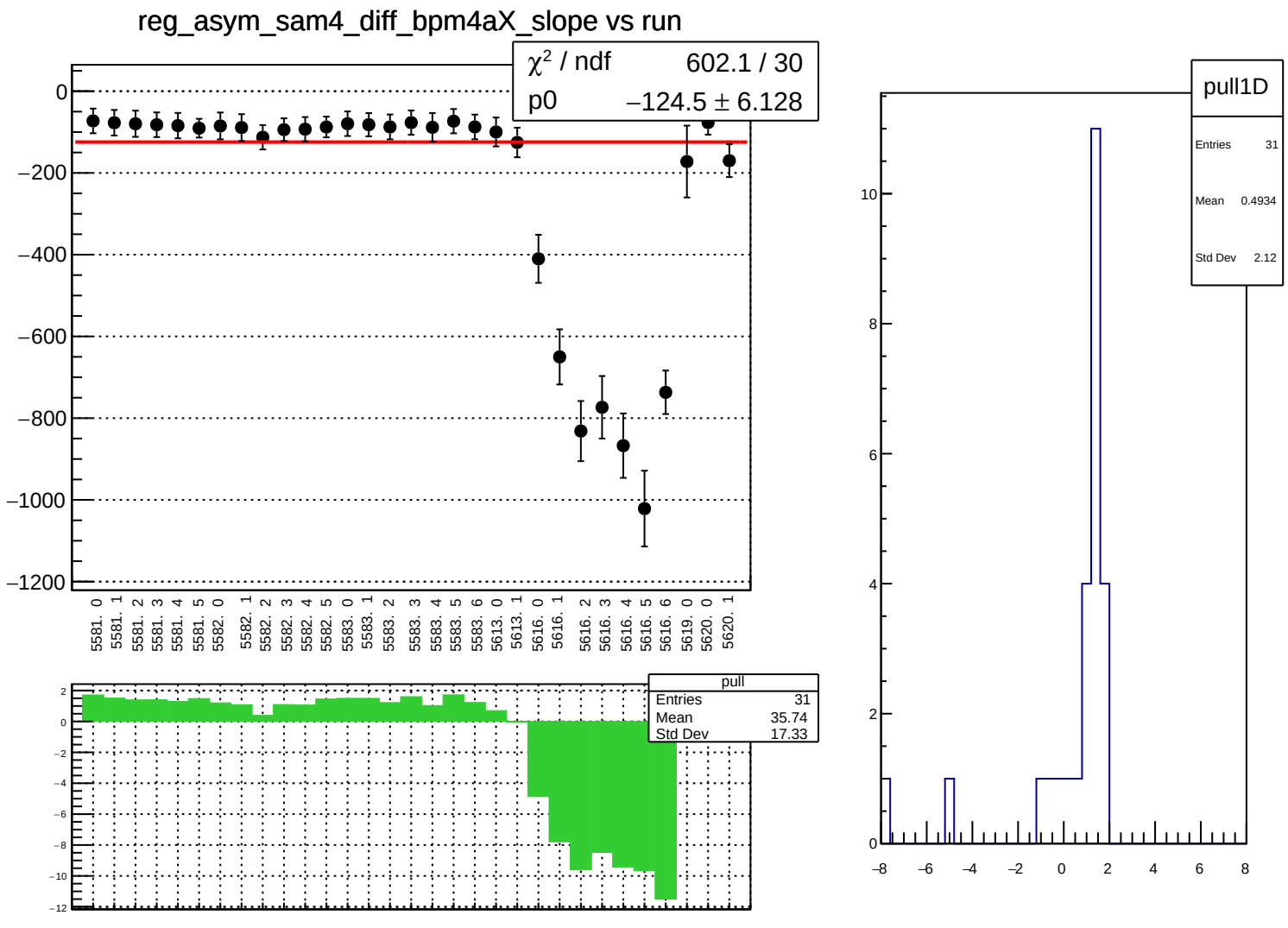

pull1D
Entries 31
Mean 0.03084
Std Dev 0.2309
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

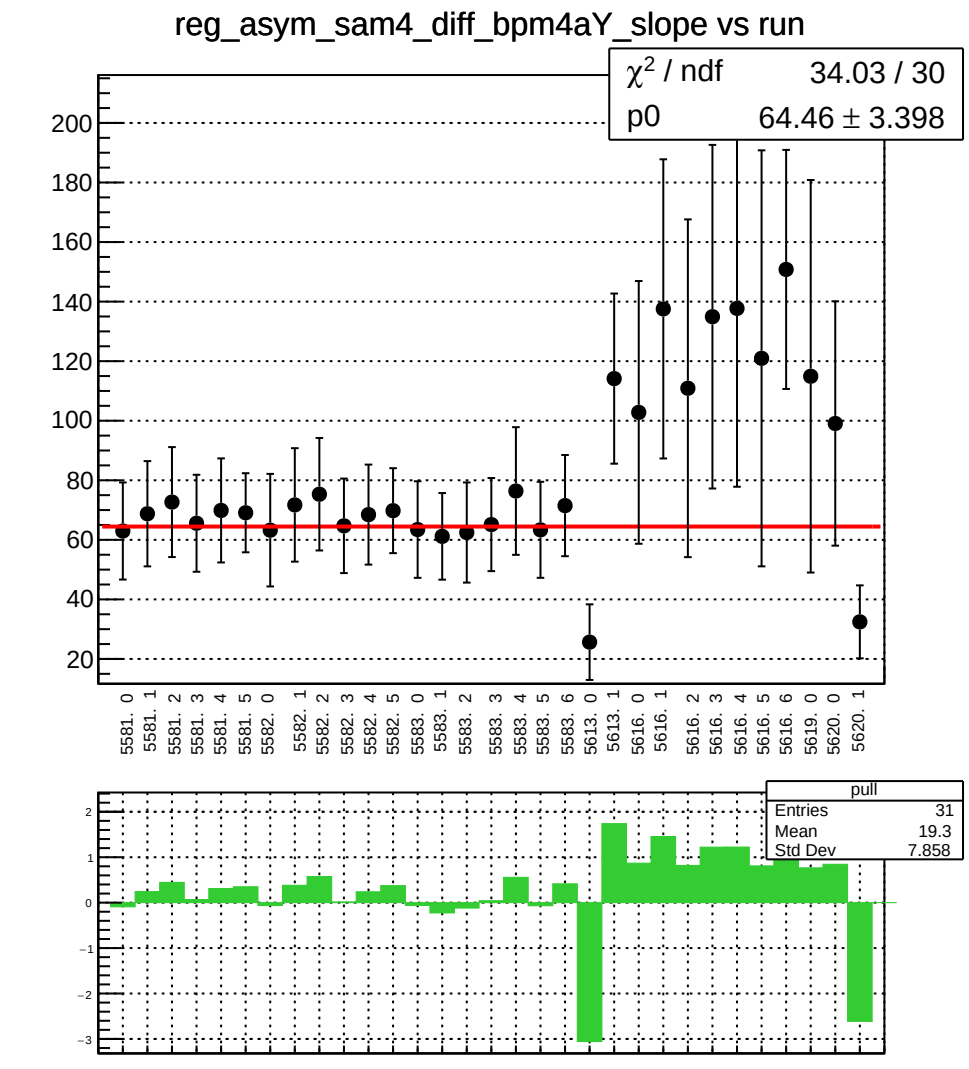

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 462.8 / 30
p0 −5.482 ± 4.5
600
500
400
300
200
100
0
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 36.18
Std Dev 17.9
10
8
6
4
2
0
−2
pull1D
Entries 31
Mean −0.2174
Std Dev 2.32
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

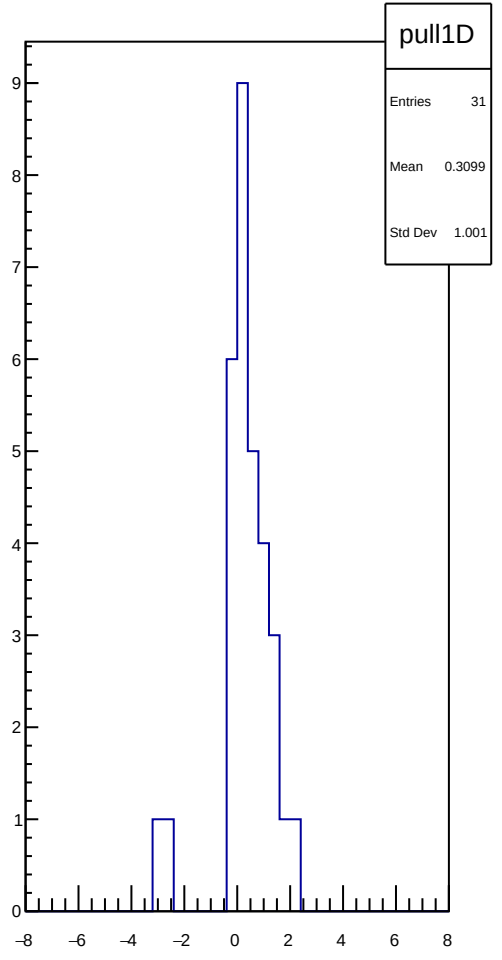

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 1.891 / 30
p0 16.04 ± 3.369
140
120
100
80
60
40
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 33.18
Std Dev 14.89
0.8
0.6
0.4
0.2
0
−0.2

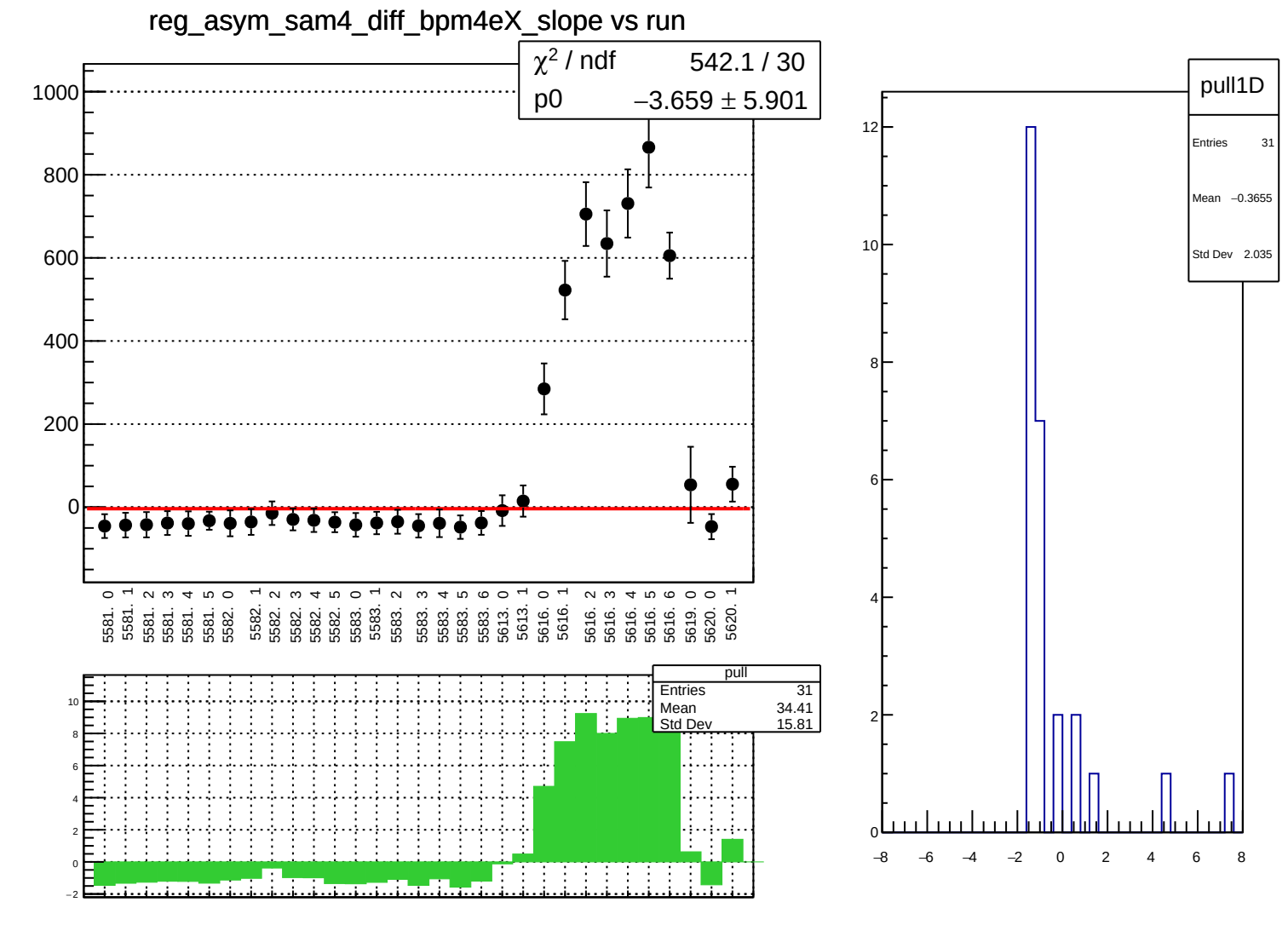

pull1D
Entries 31
Mean 0.05864
Std Dev 0.2399
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

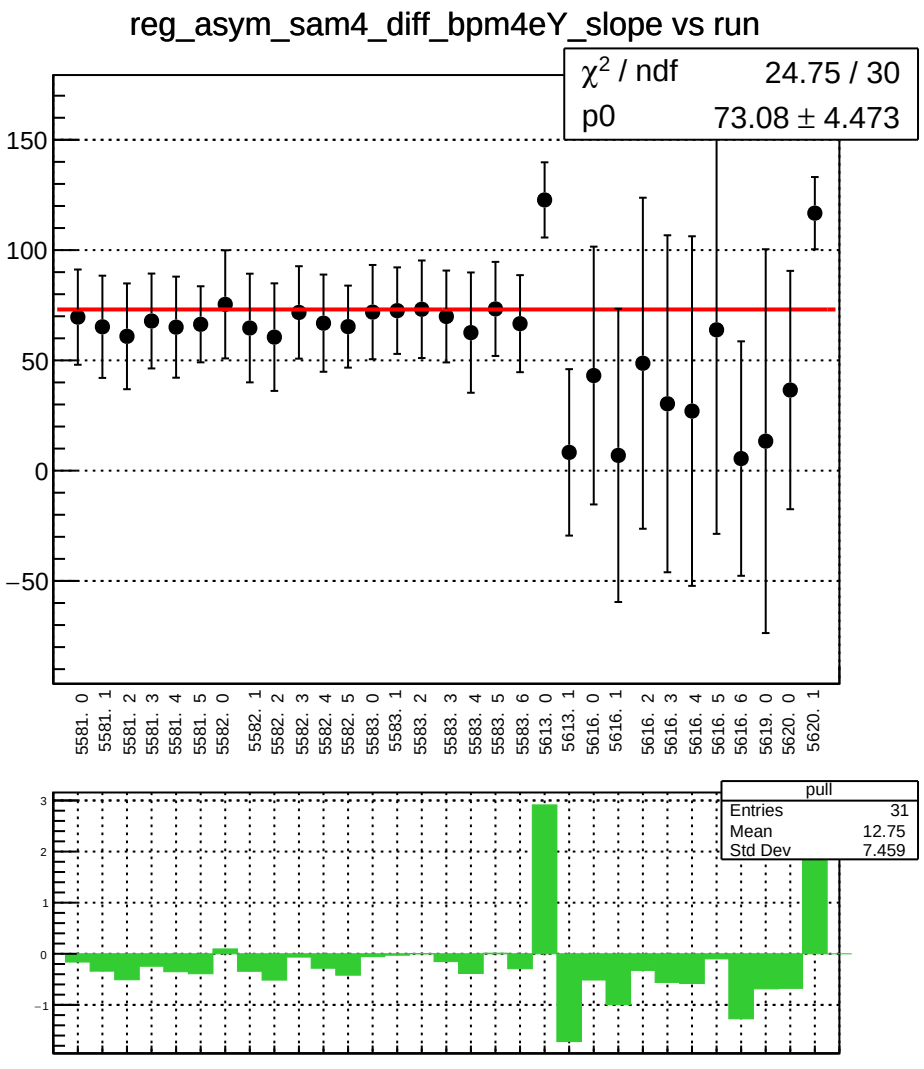

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 1303 / 30
p0 −2.224 ± 0.1257
5
0
−5
−10
−15
−20
−25
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 41.74
Std Dev 23.98
5
0
−5
−10
−15
pull1D
Entries 31
Mean 1.725
Std Dev 1.706
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

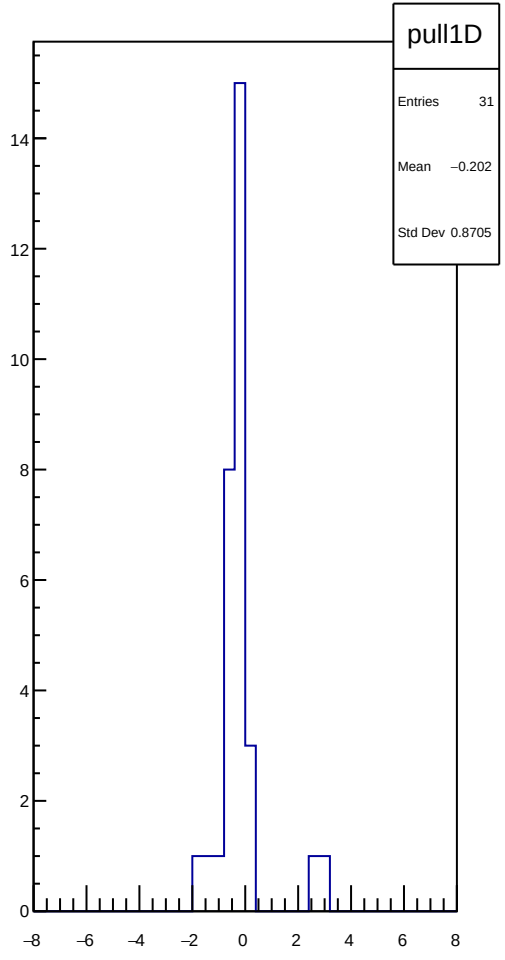

reg_asym_sam4_diff_bpm4aX_slope vs run
χ² / ndf 602.1 / 30
p0 −124.5 ± 6.128
0
−200
−400
−600
−800
−1000
−1200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 35.74
Std Dev 17.33
2
0
−2
−4
−6
−8
−10
−12
pull1D
Entries 31
Mean 0.4934
Std Dev 2.12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

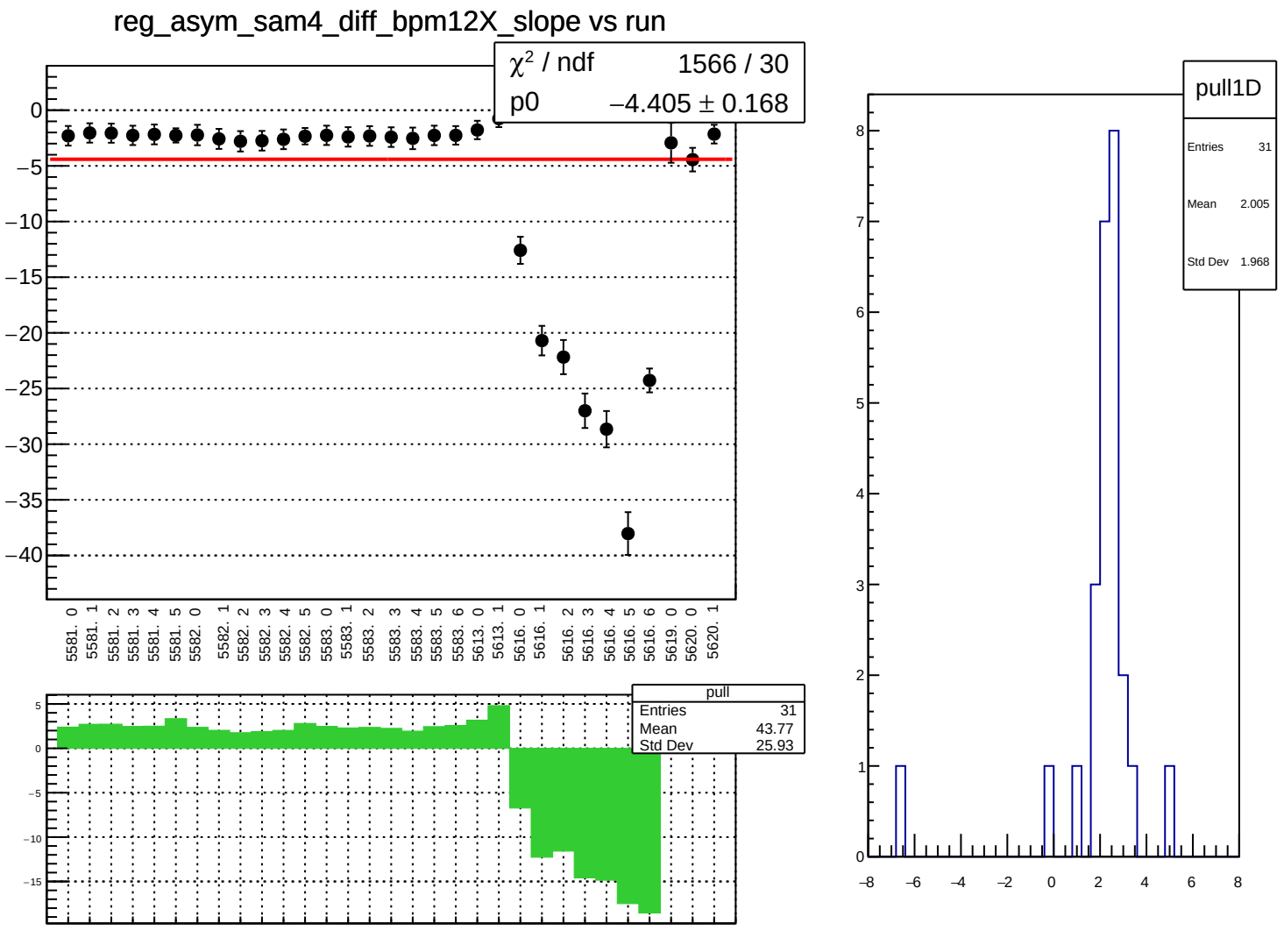

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 34.03 / 30
p0 64.46 ± 3.398
200
180
160
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 19.3
Std Dev 7.858
2
1
0
−1
−2
−3

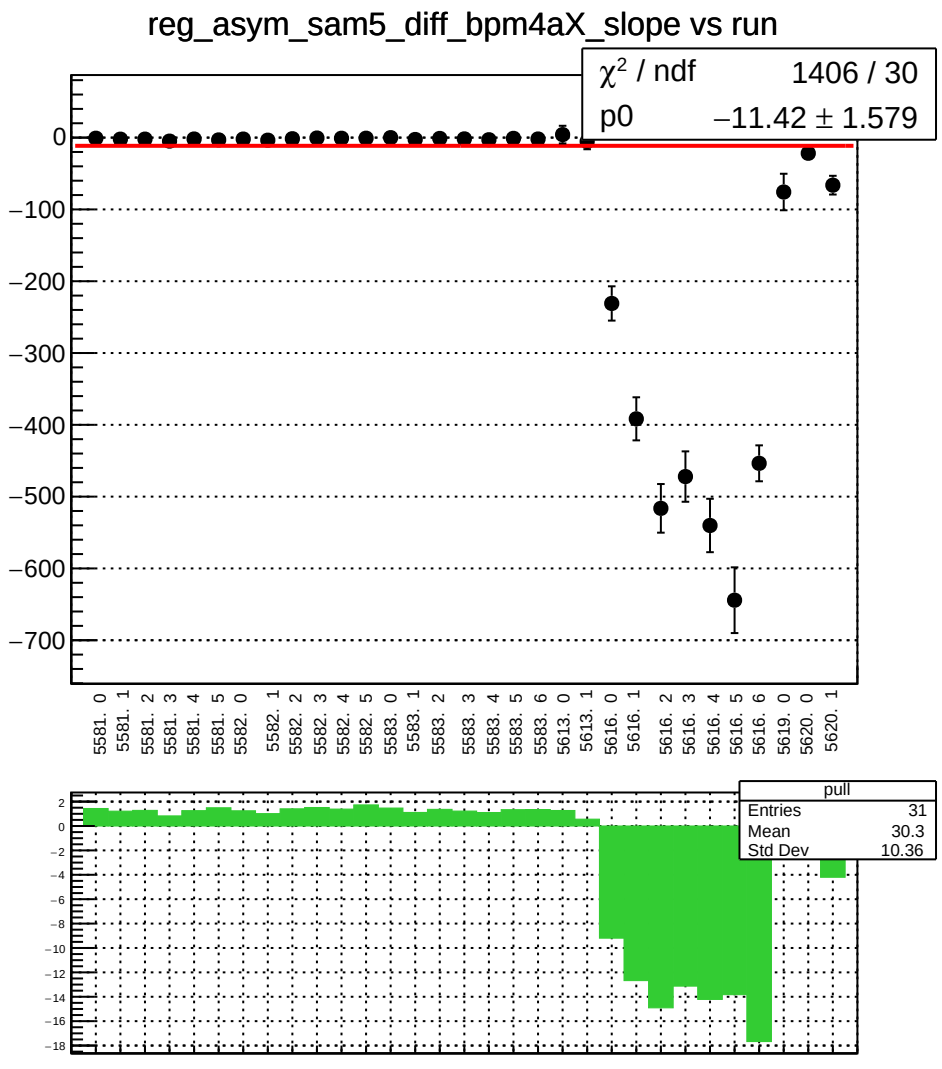

pull1D
Entries 31
Mean 0.3099
Std Dev 1.001
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

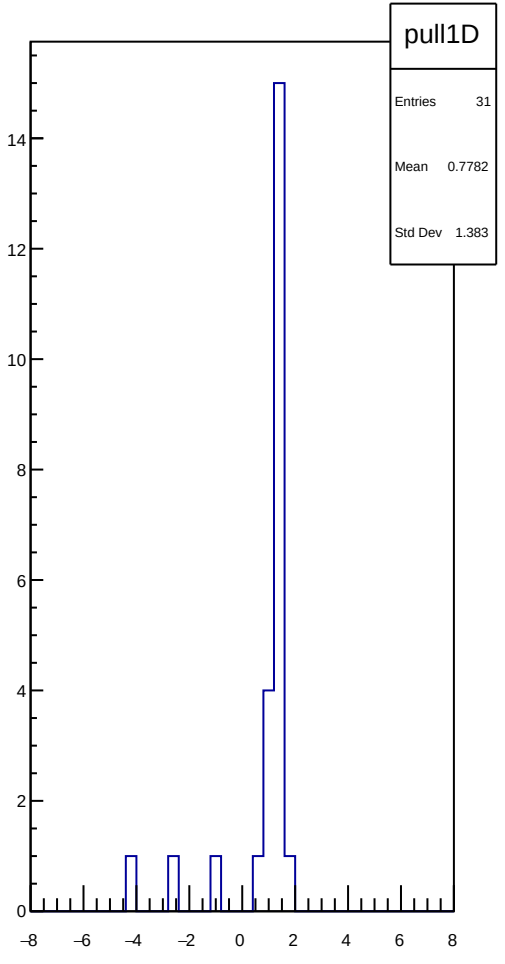

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 542.1 / 30
p0 −3.659 ± 5.901
1000
800
600
400
200
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 34.41
Std Dev 15.81
10
8
6
4
2
0
−2
pull1D
Entries 31
Mean −0.3655
Std Dev 2.035
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

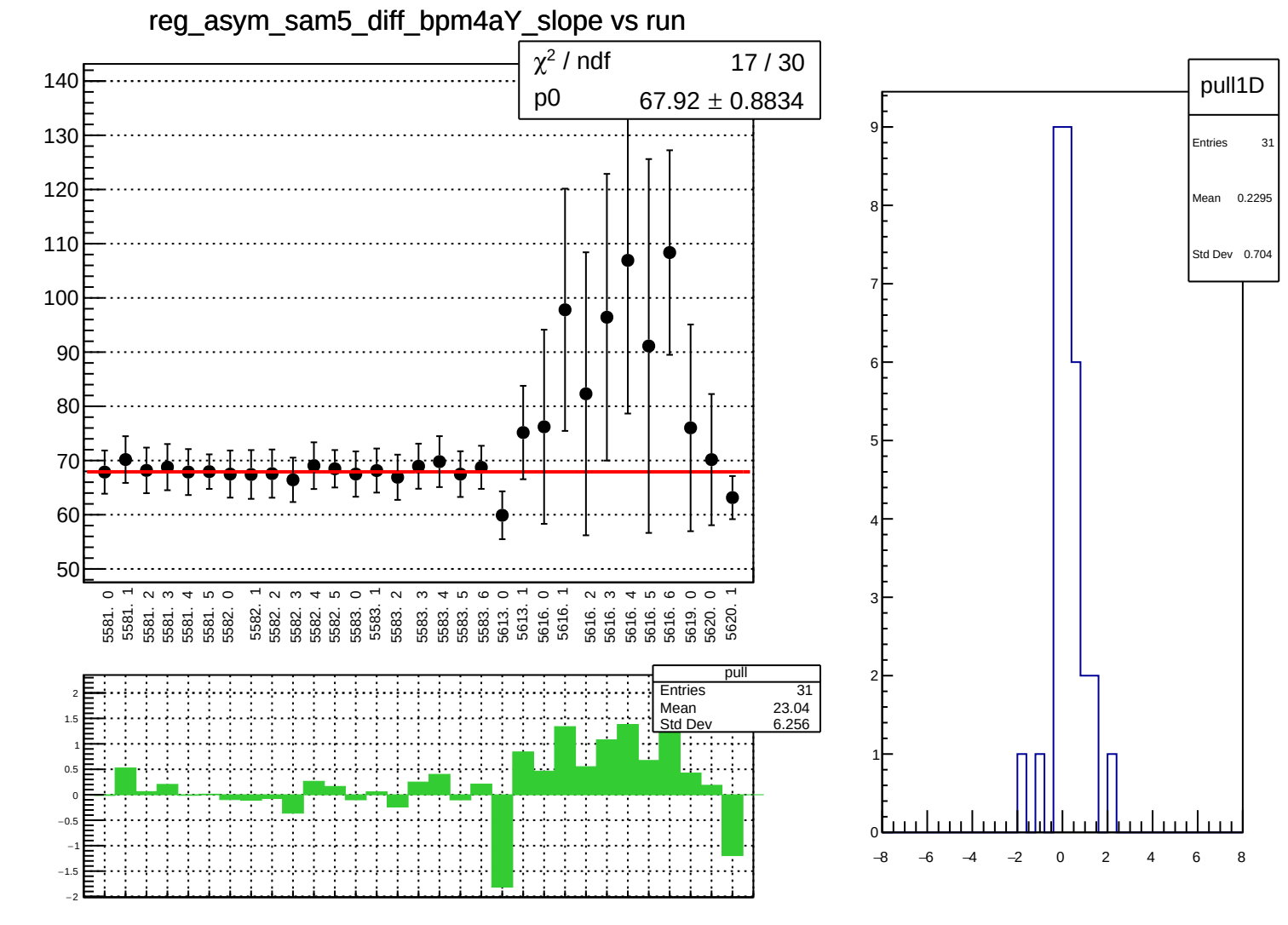

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 24.75 / 30
p0 73.08 ± 4.473
150
100
50
0
−50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 12.75
Std Dev 7.459
3
2
1
0
−1

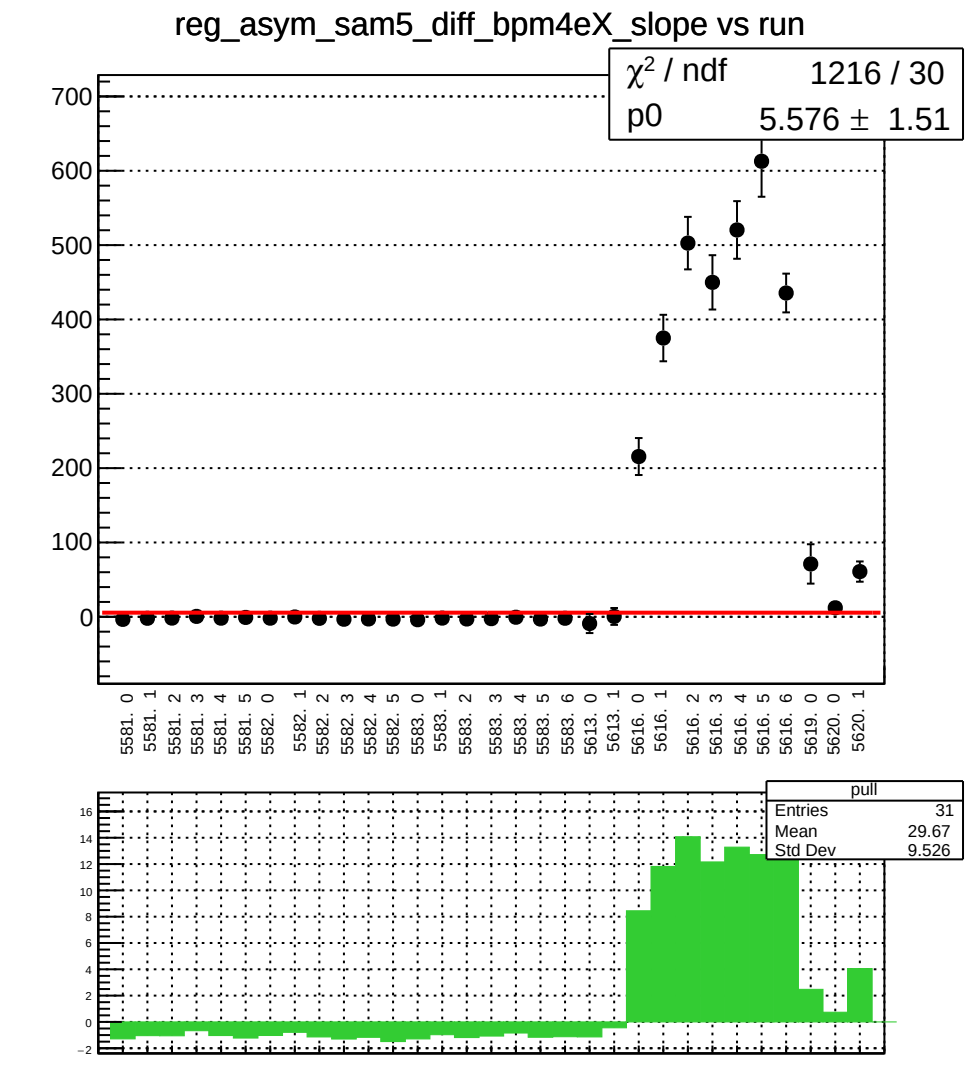

pull1D
Entries 31
Mean −0.202
Std Dev 0.8705
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

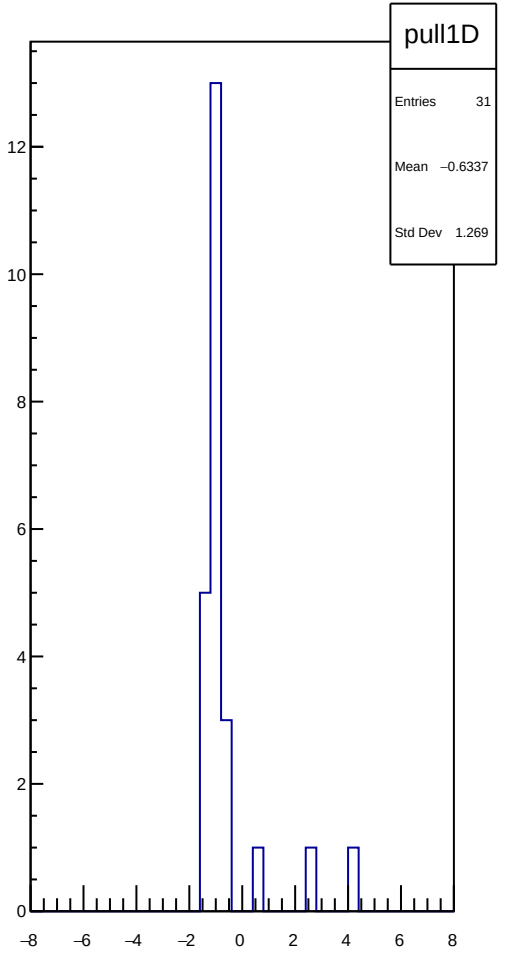

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 1566 / 30
p0 −4.405 ± 0.168
0
−5
−10
−15
−20
−25
−30
−35
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 43.77
Std Dev 25.93
5
0
−5
−10
−15
pull1D
Entries 31
Mean 2.005
Std Dev 1.968
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

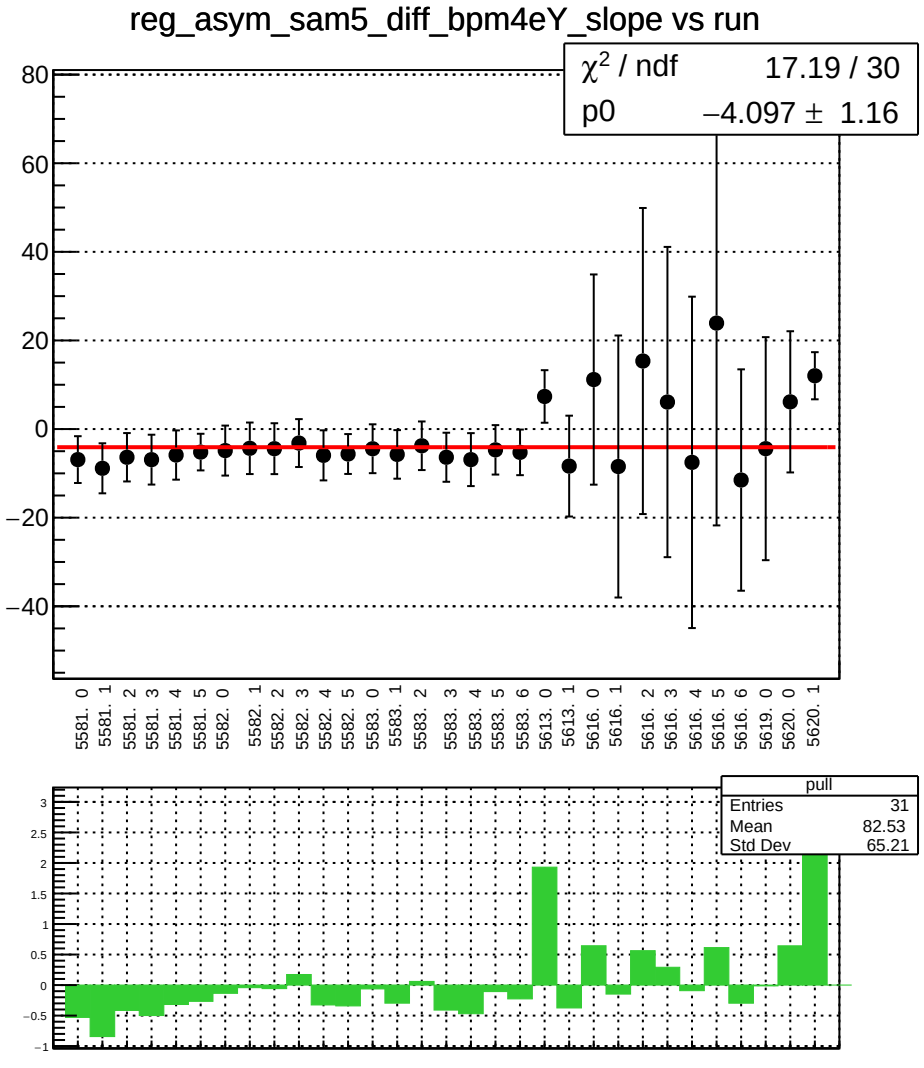

reg_asym_sam5_diff_bpm4aX_slope vs run
χ² / ndf 1406 / 30
p0 −11.42 ± 1.579
0
−100
−200
−300
−400
−500
−600
−700
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 30.3
Std Dev 10.36
2
0
−2
−4
−6
−8
−10
−12
−14
−16
−18

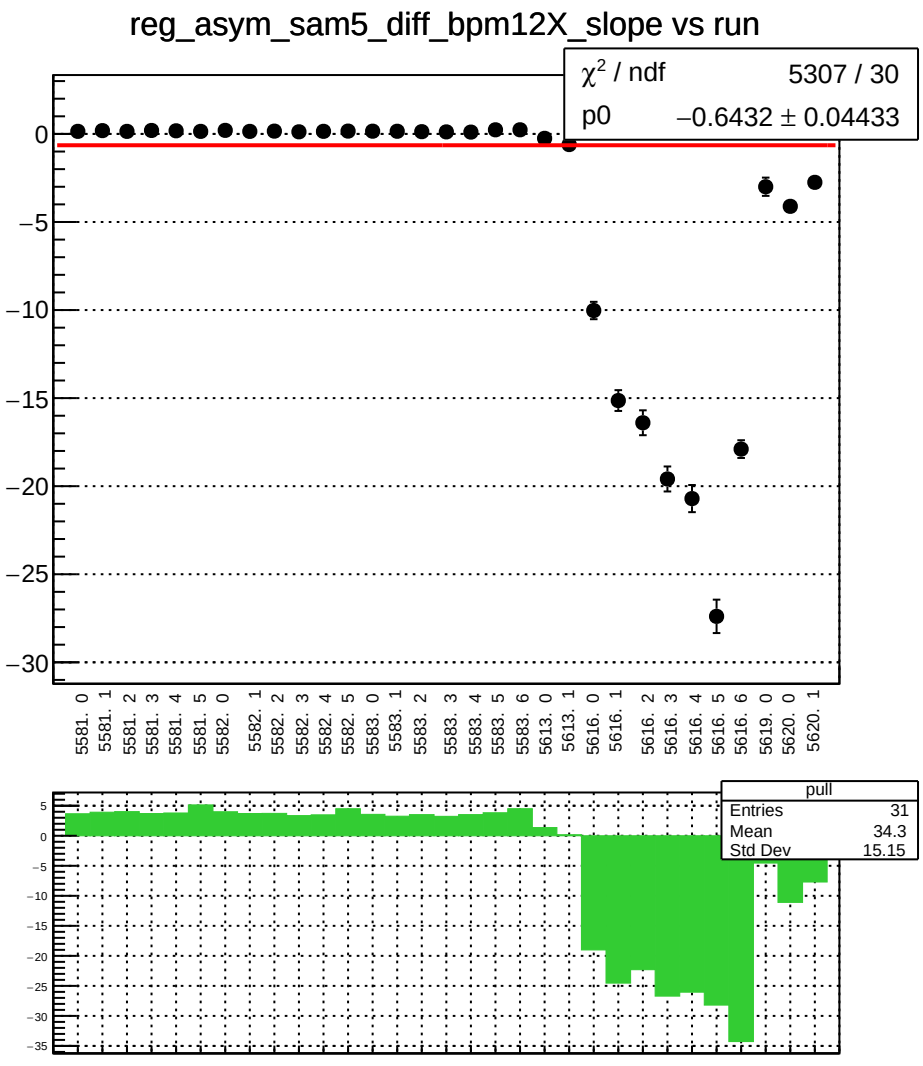

pull1D
Entries 31
Mean 0.7782
Std Dev 1.383
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

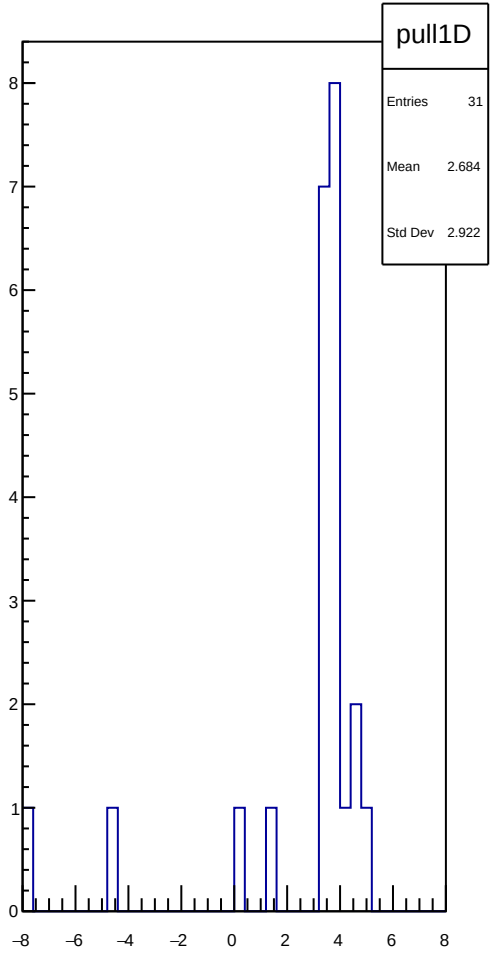

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 17 / 30
p0 67.92 ± 0.8834
140
130
120
110
100
90
80
70
60
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 23.04
Std Dev 6.256
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean 0.2295
Std Dev 0.704
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

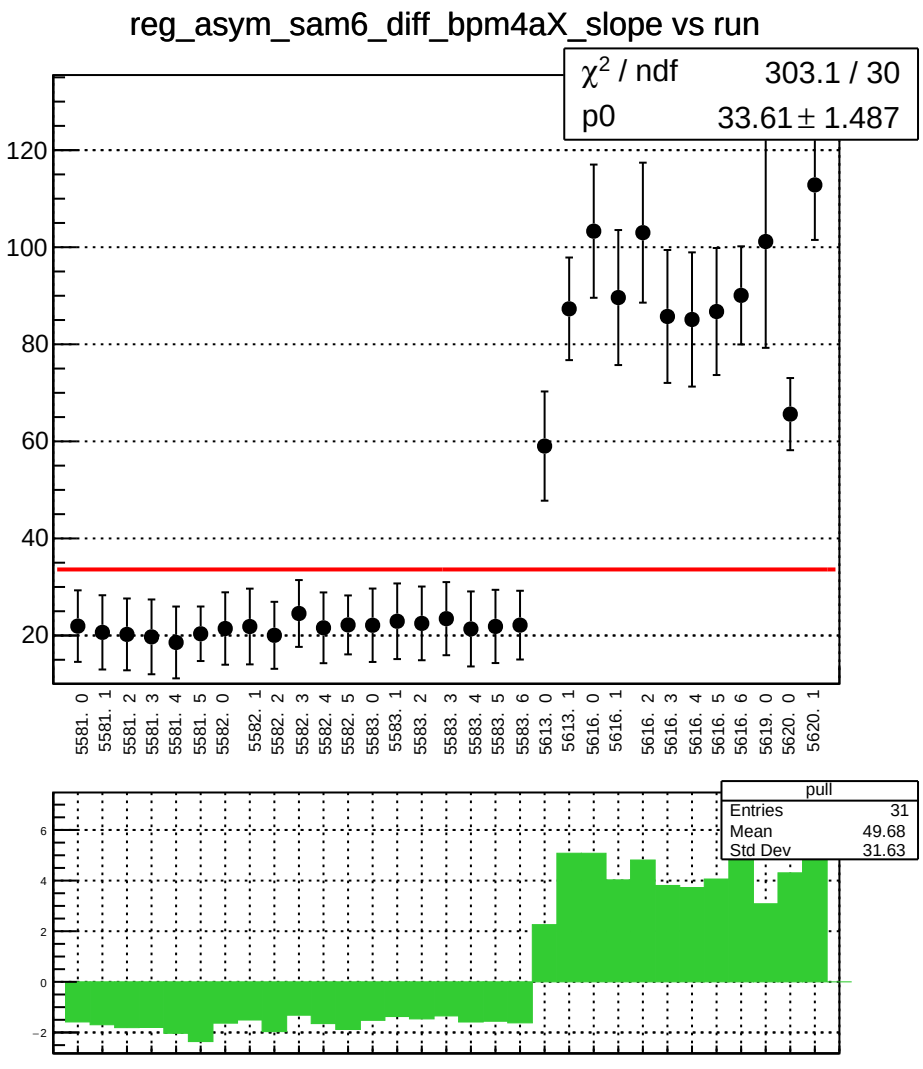

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 1216 / 30
p0 5.576 ± 1.51
700
600
500
400
300
200
100
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 29.67
Std Dev 9.526
16
14
12
10
8
6
4
2
0
−2

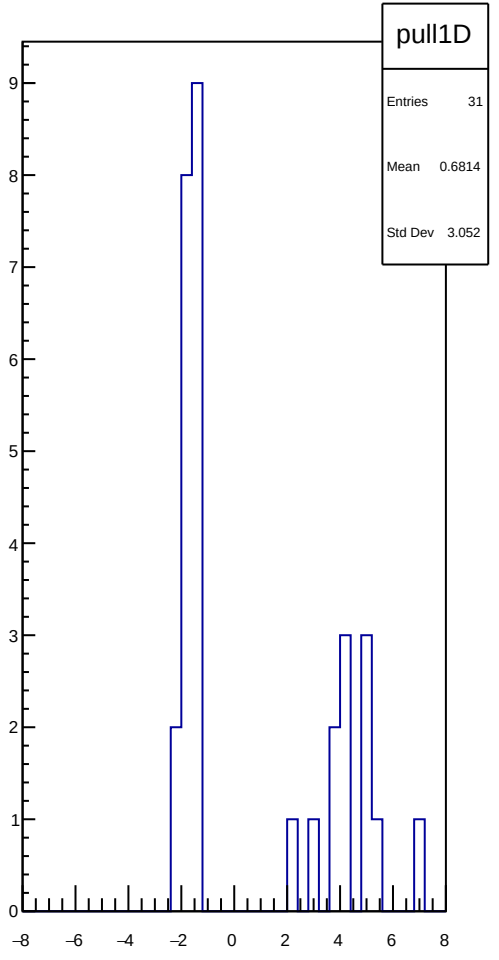

pull1D
Entries 31
Mean −0.6337
Std Dev 1.269
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

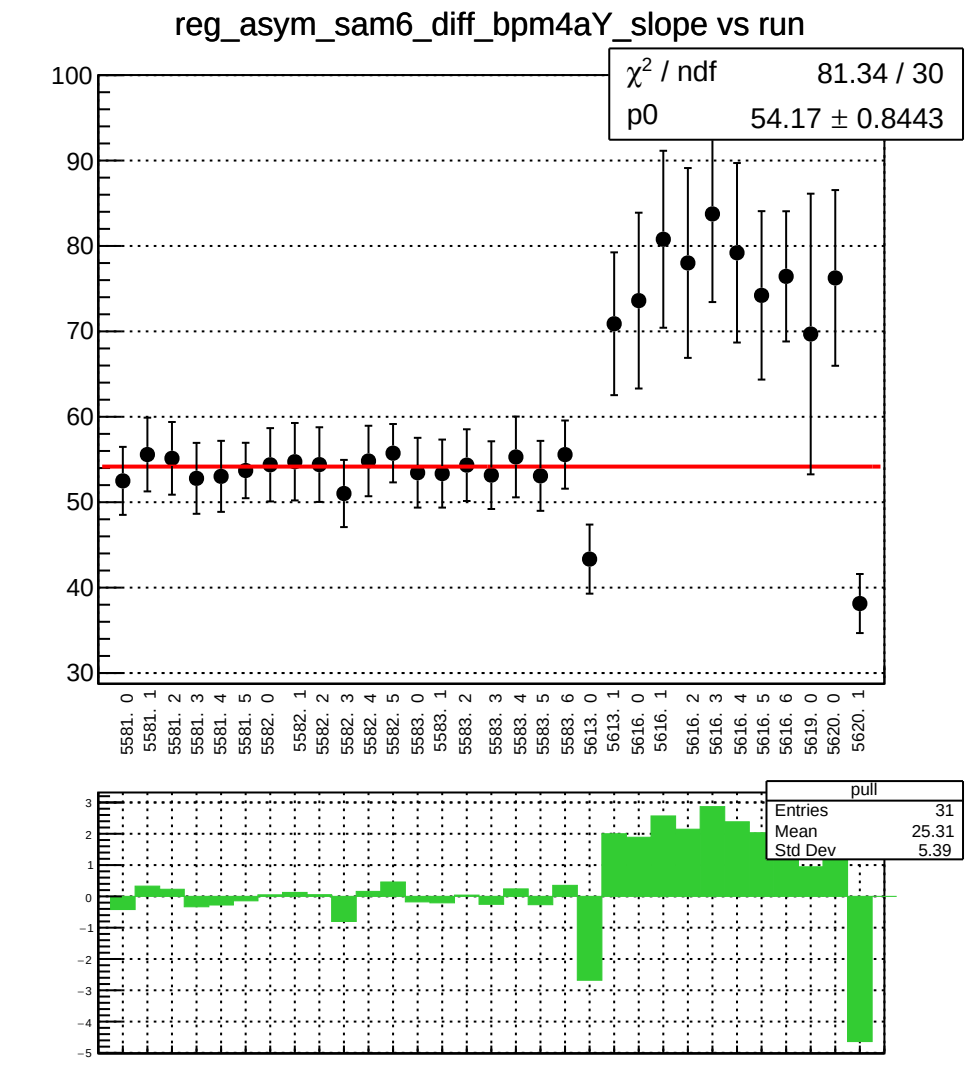

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 17.19 / 30
p0 −4.097 ± 1.16
80
60
40
20
0
−20
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 82.53
Std Dev 65.21
3
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 31
Mean 0.05436
Std Dev 0.7428
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

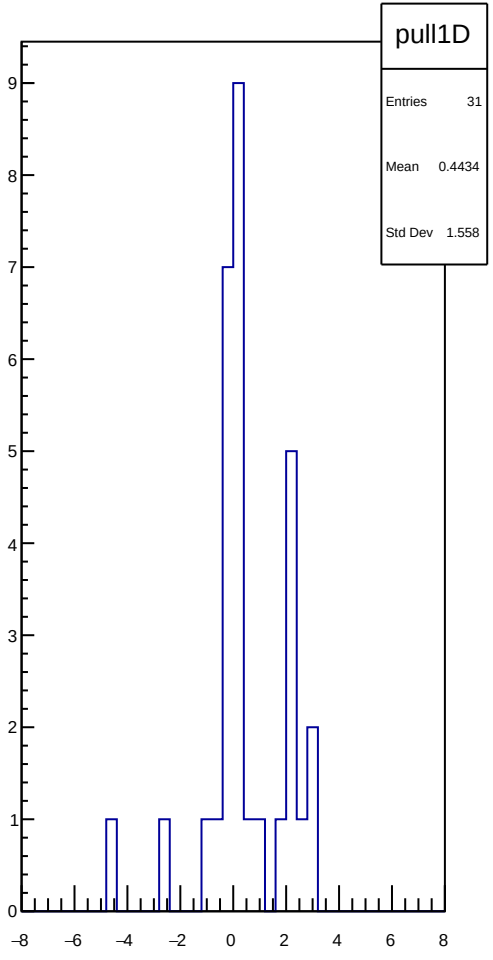

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 5307 / 30
p0 −0.6432 ± 0.04433
0
−5
−10
−15
−20
−25
−30
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 34.3
Std Dev 15.15
5
0
−5
−10
−15
−20
−25
−30
−35

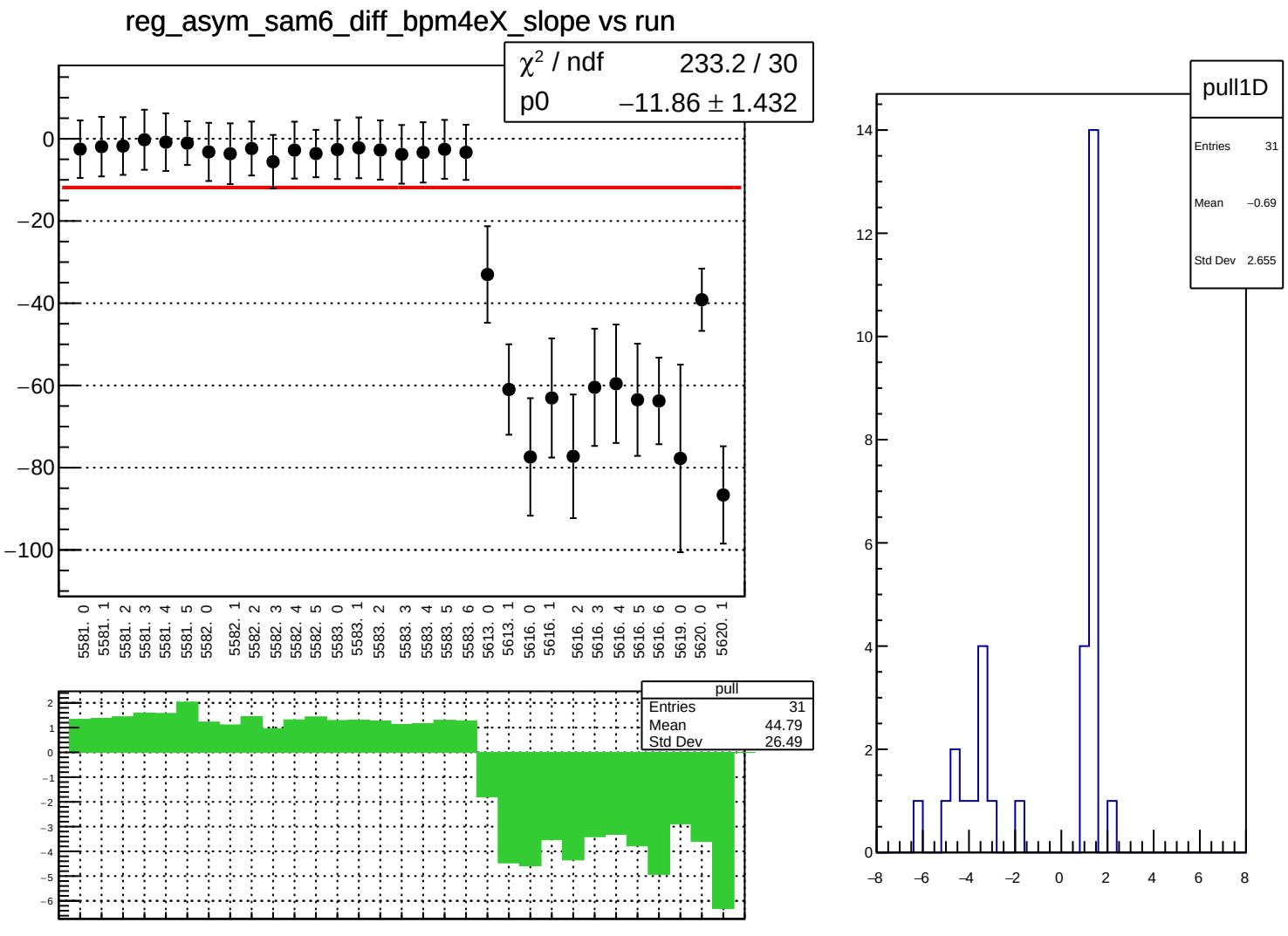

pull1D
Entries 31
Mean 2.684
Std Dev 2.922
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

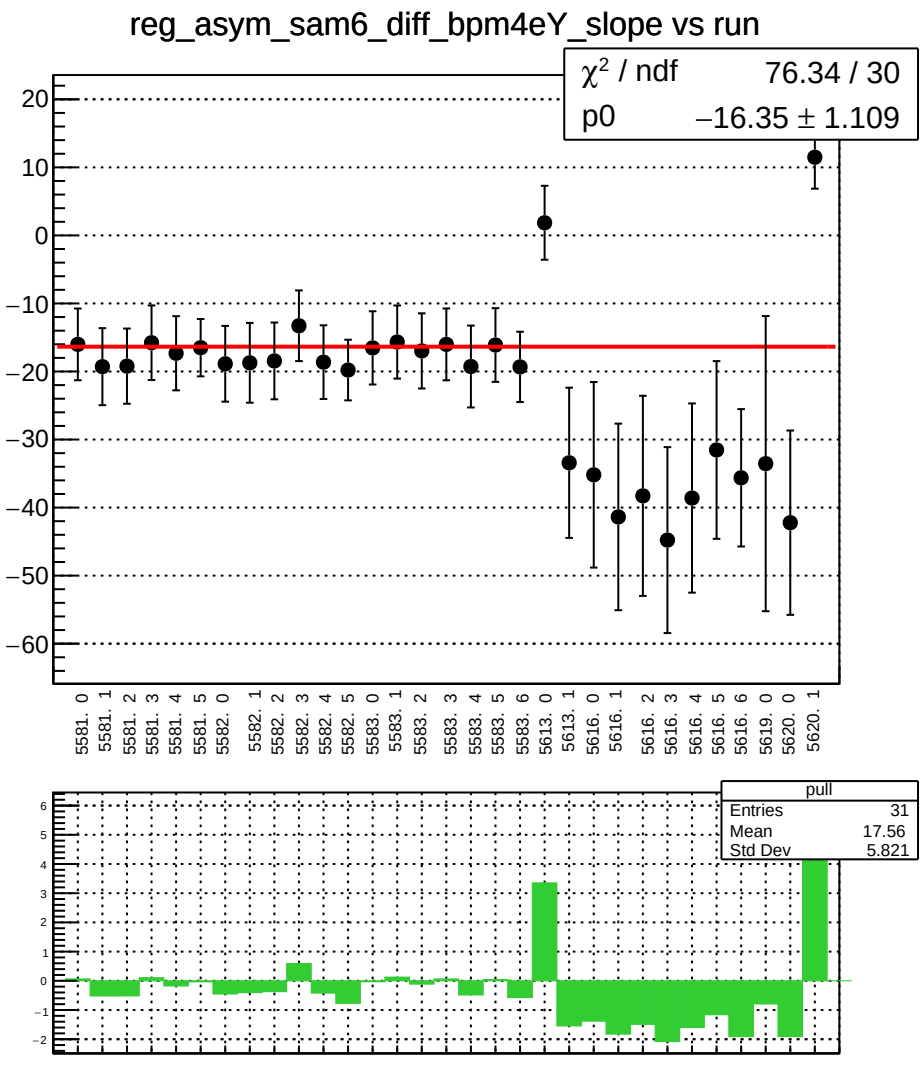

reg_asym_sam6_diff_bpm4aX_slope vs run
χ² / ndf 303.1 / 30
p0 33.61 ± 1.487
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 49.68
Std Dev 31.63
6
4
2
0
−2

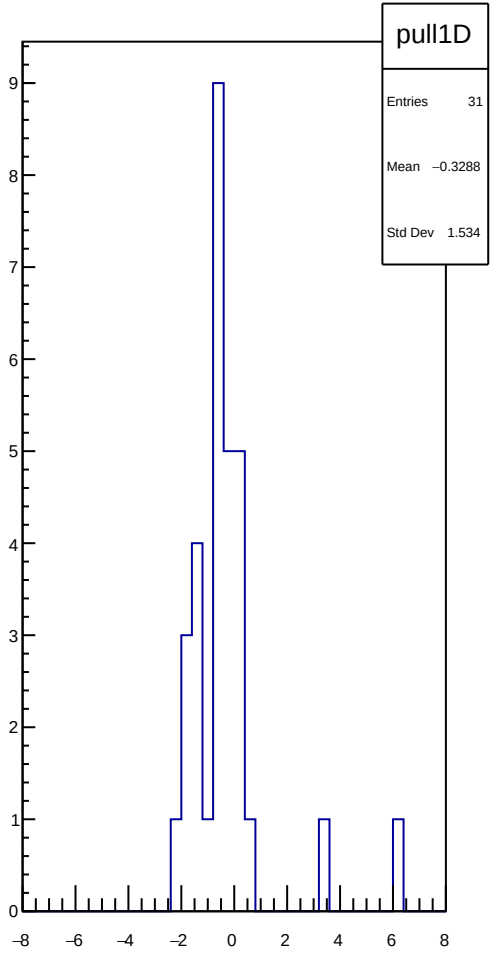

pull1D
Entries 31
Mean 0.6814
Std Dev 3.052
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

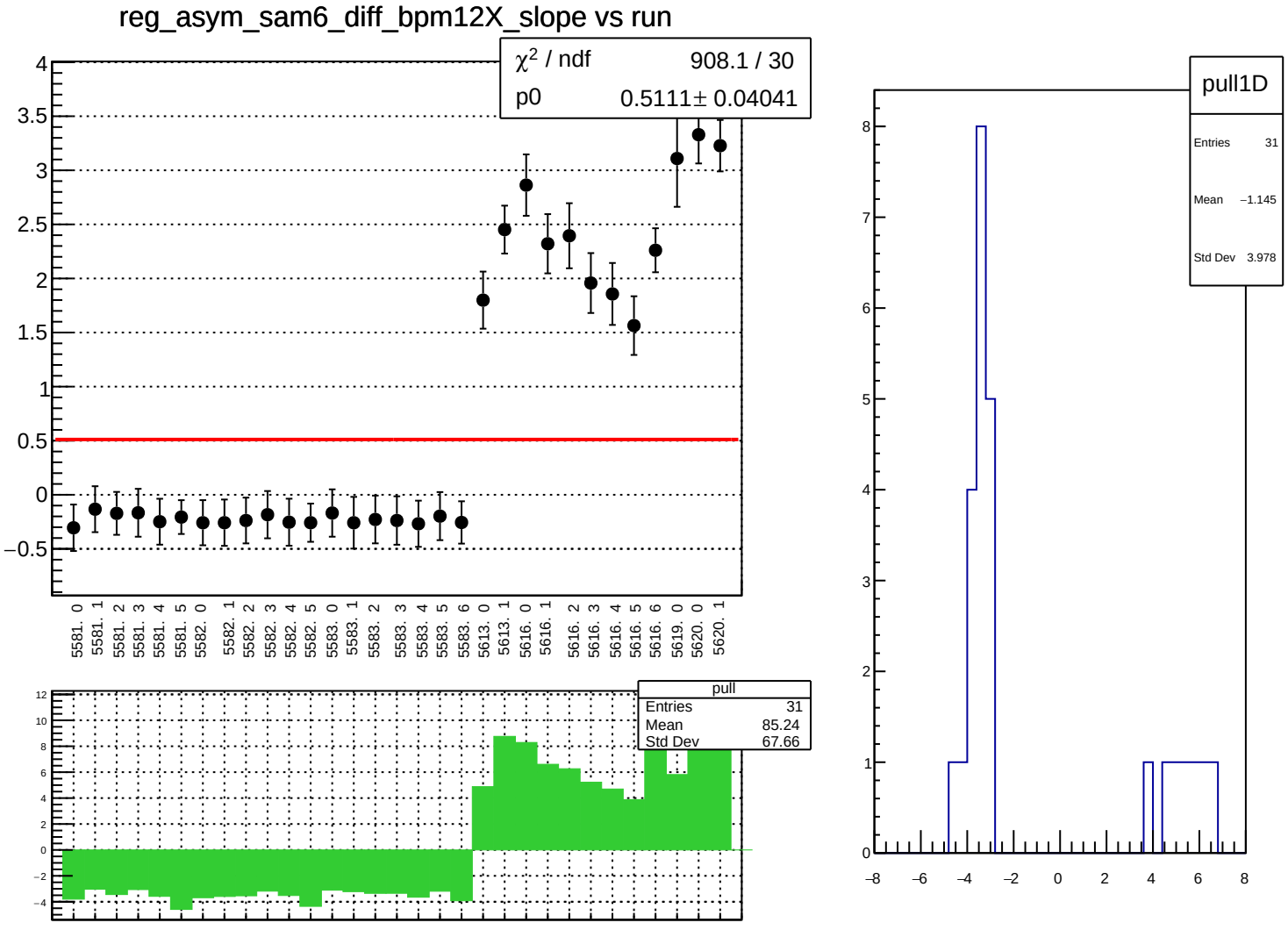

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 81.34 / 30
p0 54.17 ± 0.8443
pull
Entries 31
Mean 25.31
Std Dev 5.39

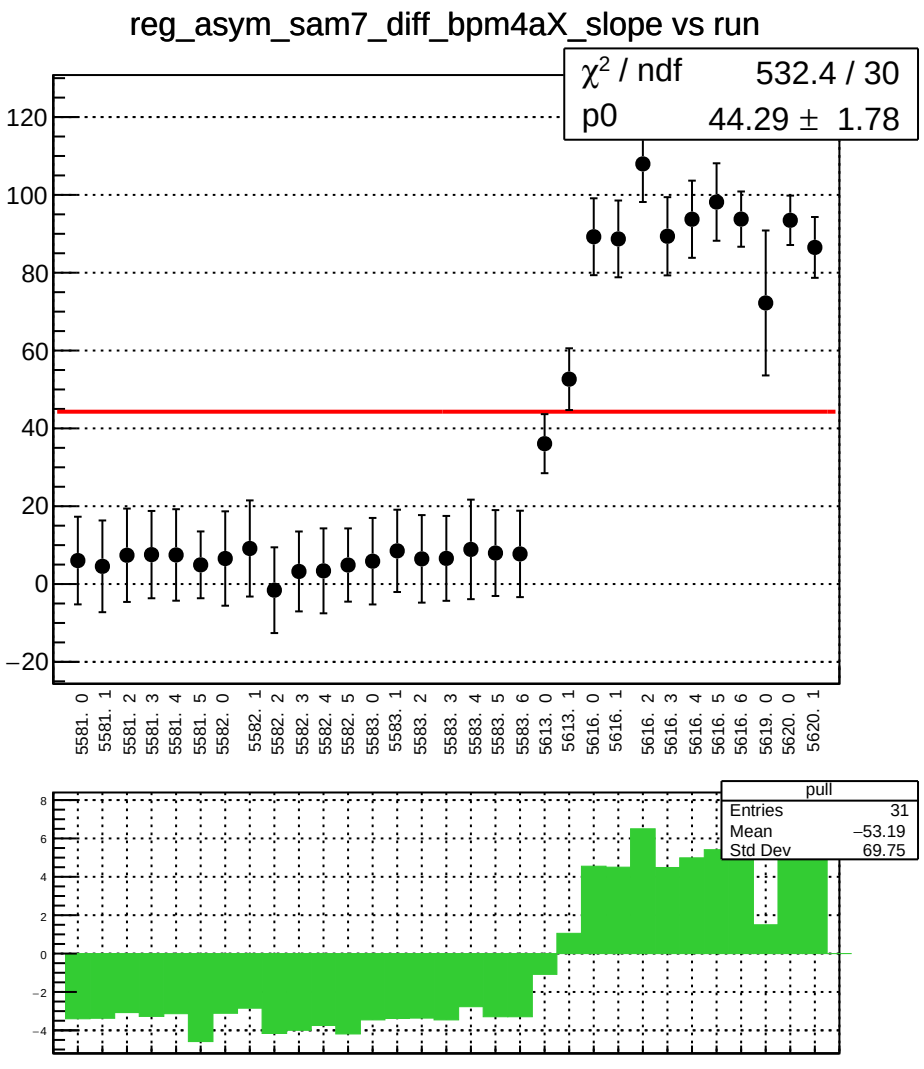

pull1D
Entries 31
Mean 0.4434
Std Dev 1.558

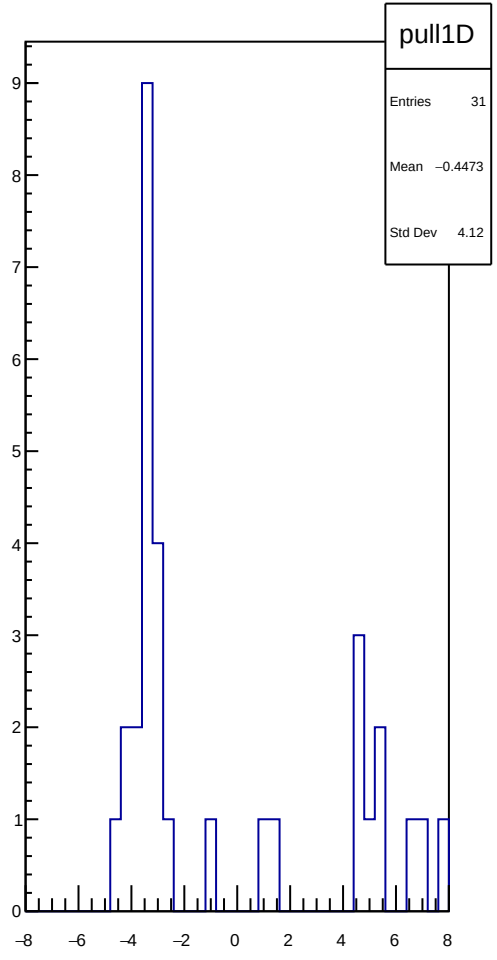

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 233.2 / 30
p0 −11.86 ± 1.432
0
−20
−40
−60
−80
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 44.79
Std Dev 26.49
pull1D
Entries 31
Mean −0.69
Std Dev 2.655

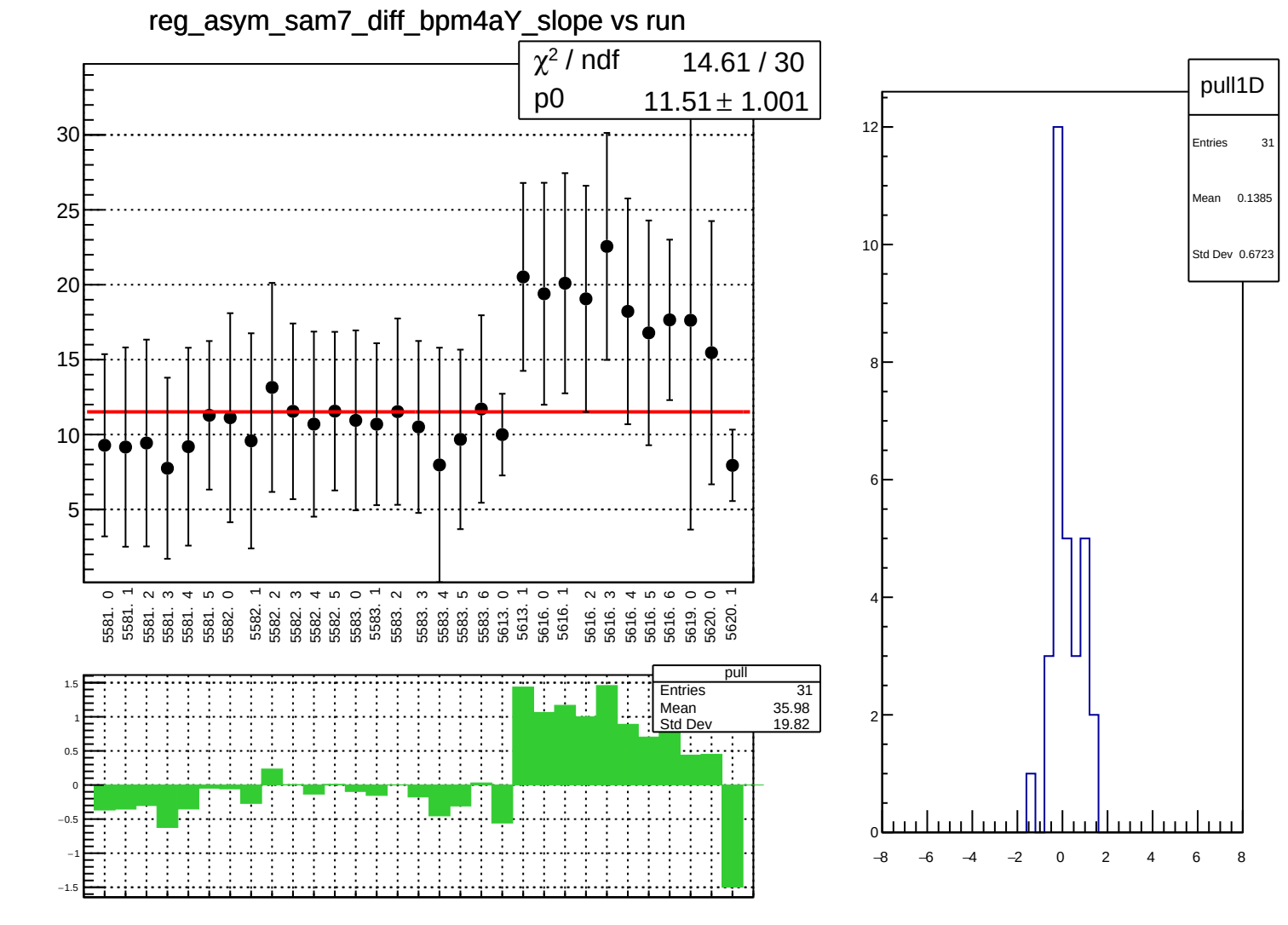

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 76.34 / 30
p0 −16.35 ± 1.109
20
10
0
−10
−20
−30
−40
−50
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 17.56
Std Dev 5.821
6
5
4
3
2
1
0
−1
−2

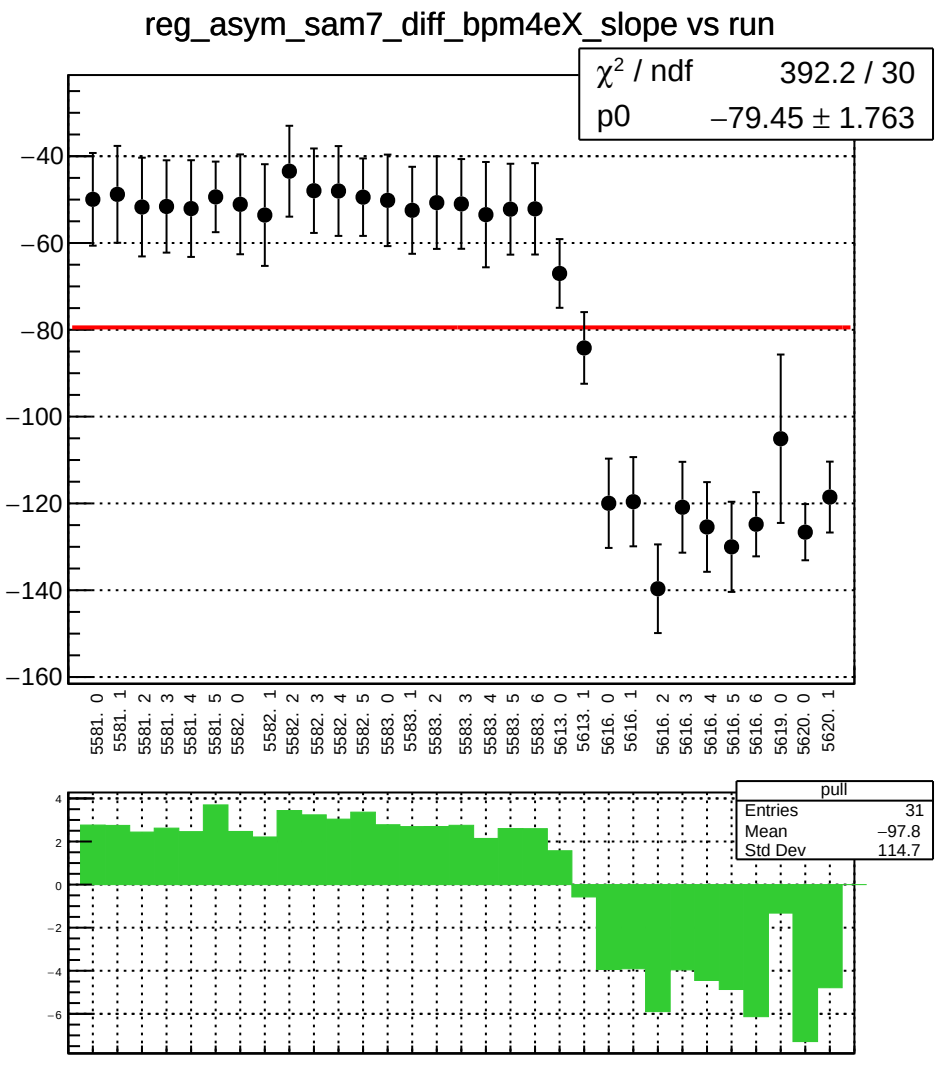

pull1D
Entries 31
Mean −0.3288
Std Dev 1.534
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

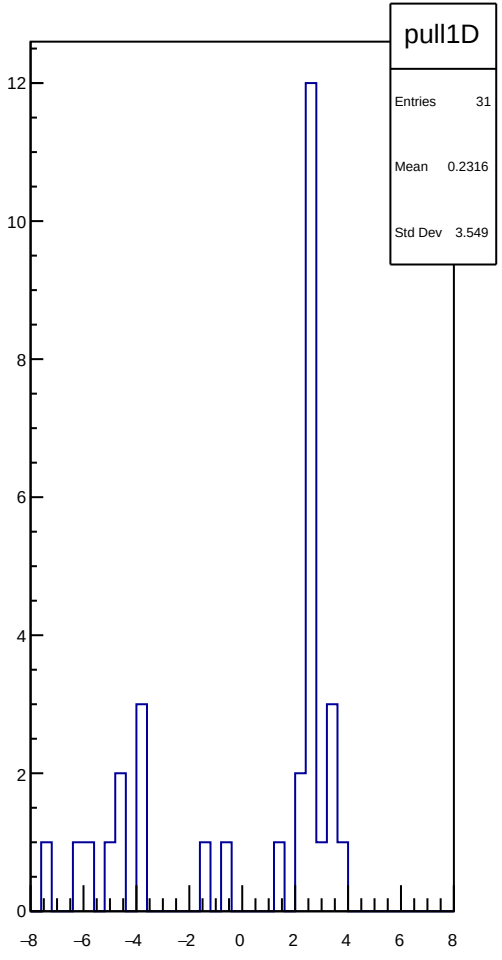

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 908.1 / 30
p0 0.5111± 0.04041
pull
Entries 31
Mean 85.24
Std Dev 67.66
pull1D
Entries 31
Mean −1.145
Std Dev 3.978

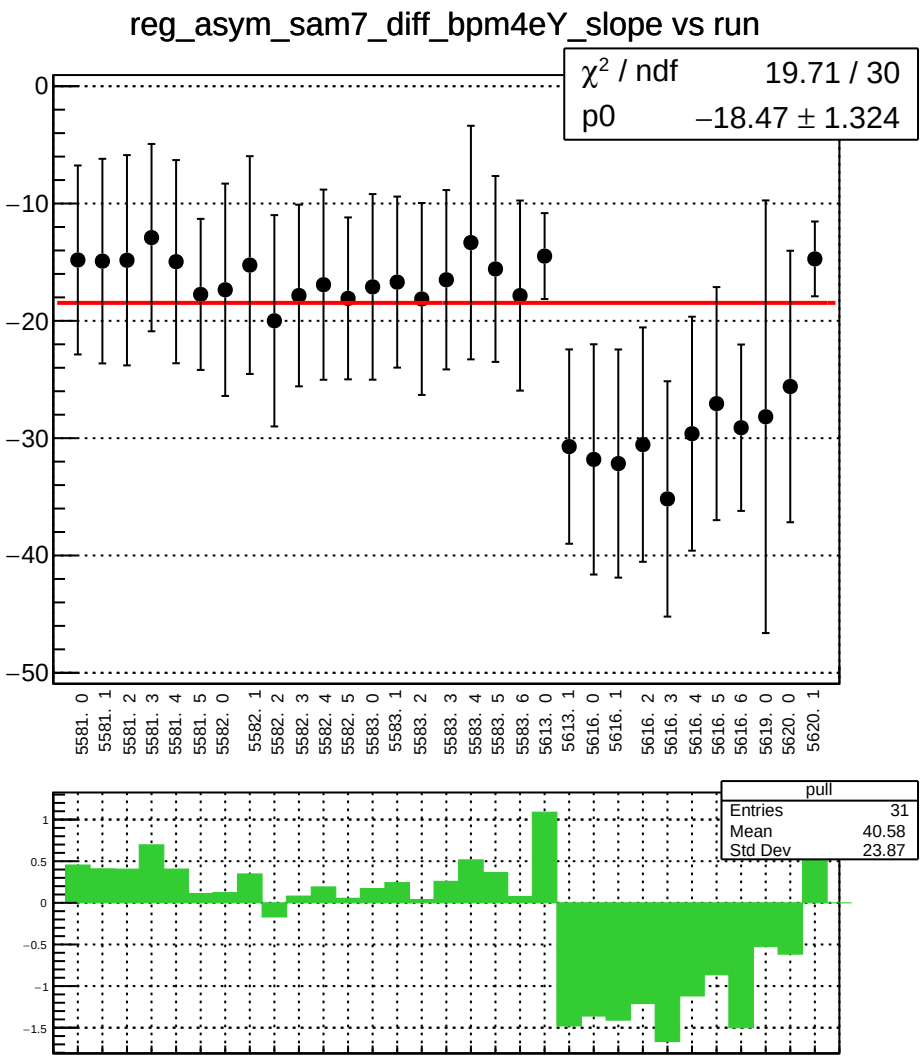

reg_asym_sam7_diff_bpm4aX_slope vs run
χ² / ndf 532.4 / 30
p0 44.29 ± 1.78
120
100
80
60
40
20
0
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −53.19
Std Dev 69.75
8
6
4
2
0
−2
−4

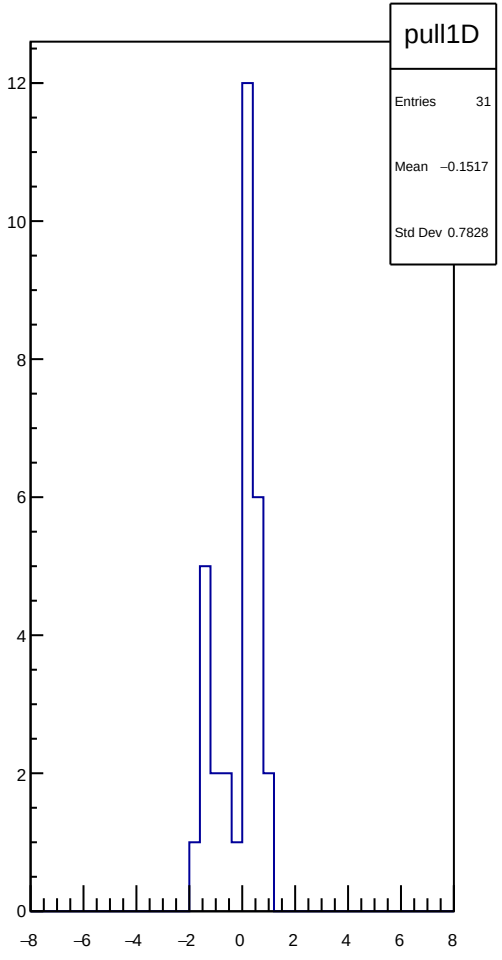

pull1D
Entries 31
Mean −0.4473
Std Dev 4.12
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

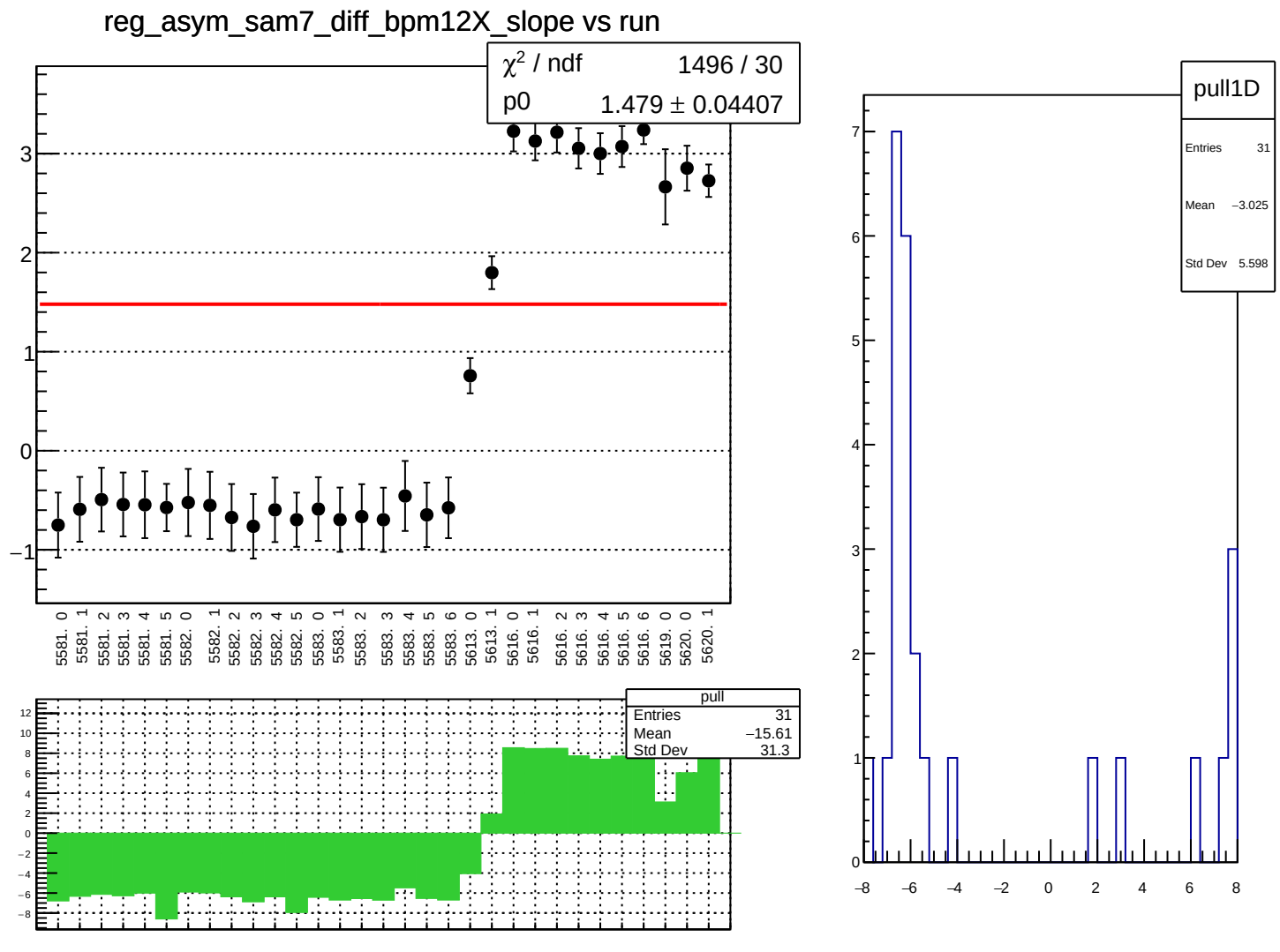

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 14.61 / 30
p0 11.51 ± 1.001
30
25
20
15
10
5
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 35.98
Std Dev 19.82
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.1385
Std Dev 0.6723
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

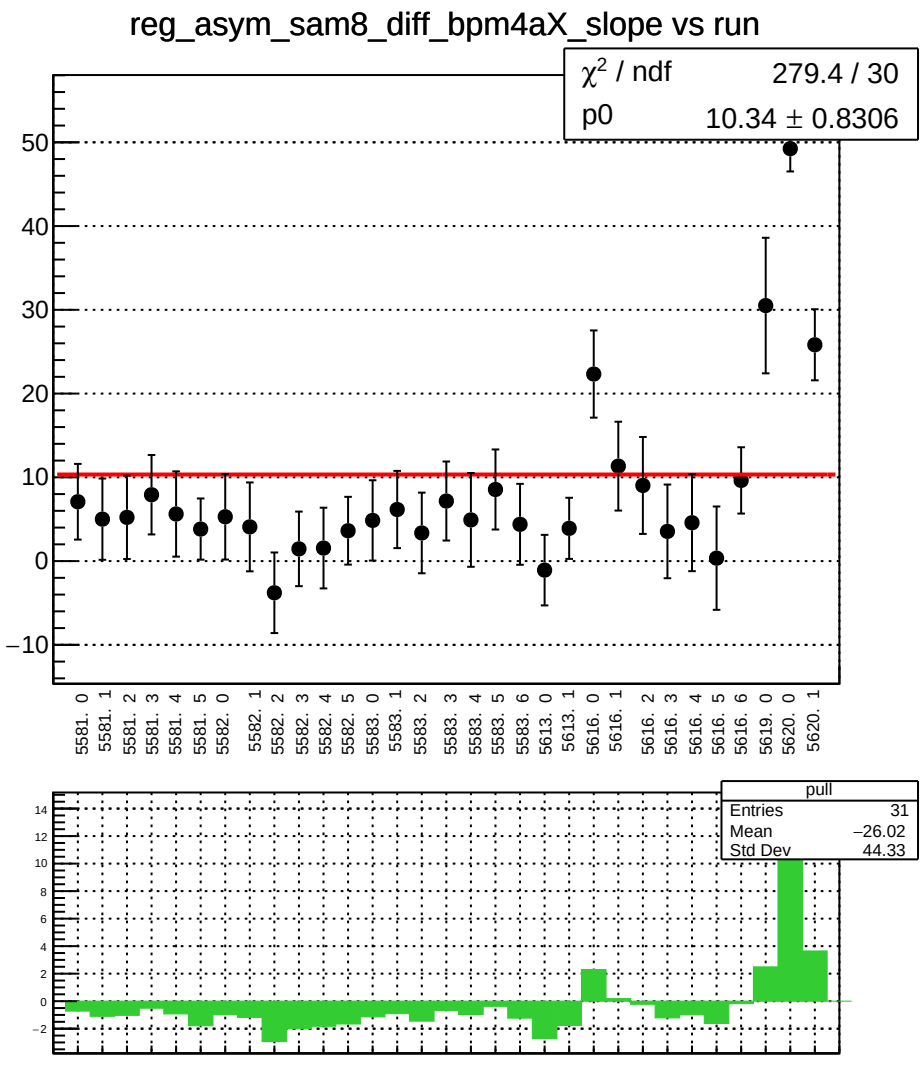

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 392.2 / 30
p0 −79.45 ± 1.763
−40
−60
−80
−100
−120
−140
−160
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −97.8
Std Dev 114.7
4
2
0
−2
−4
−6

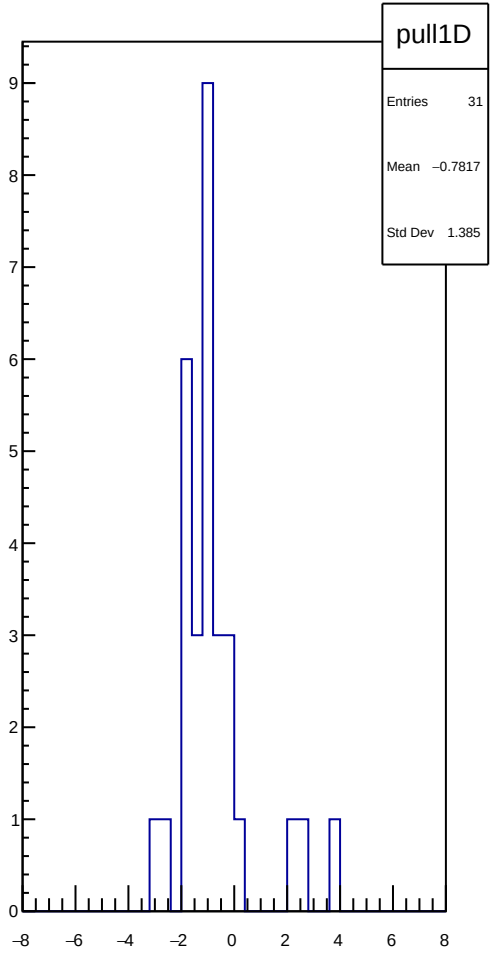

pull1D
Entries 31
Mean 0.2316
Std Dev 3.549
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

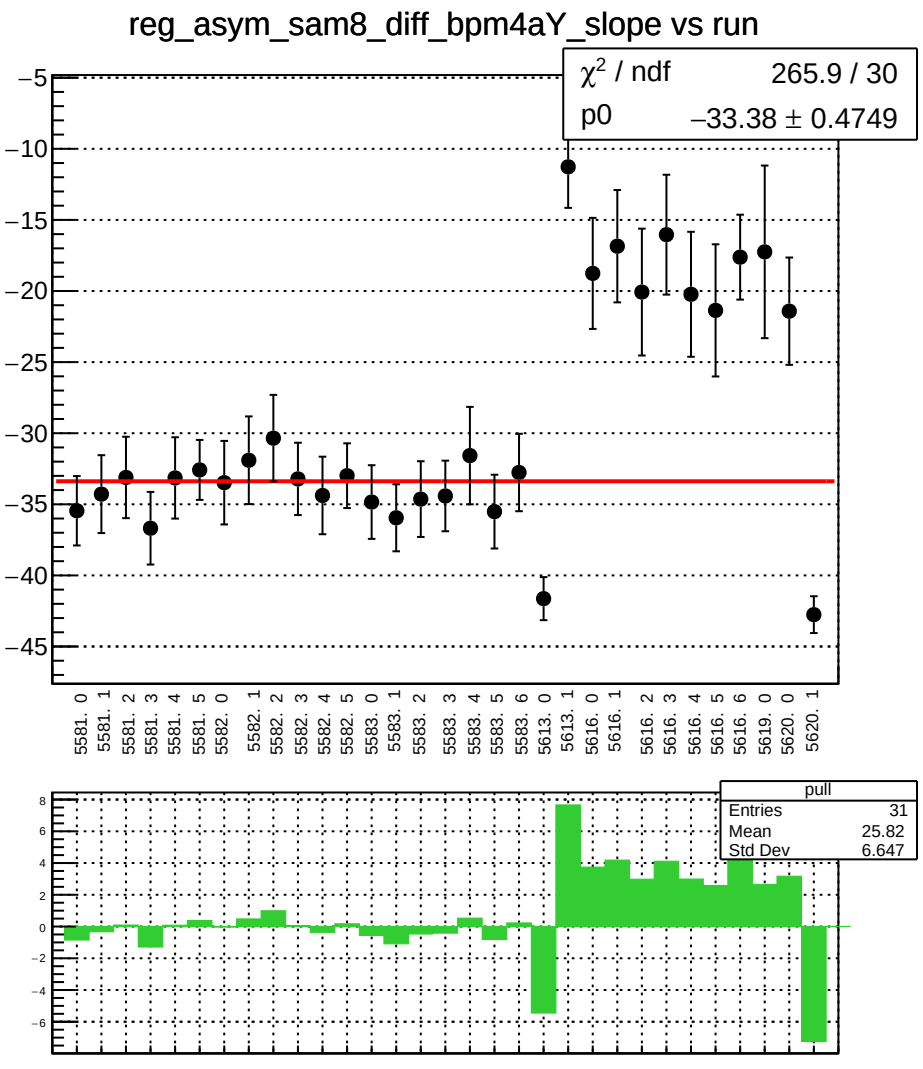

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 19.71 / 30
p0 −18.47 ± 1.324
0
−10
−20
−30
−40
−50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 40.58
Std Dev 23.87
1
0.5
0
−0.5
−1
−1.5

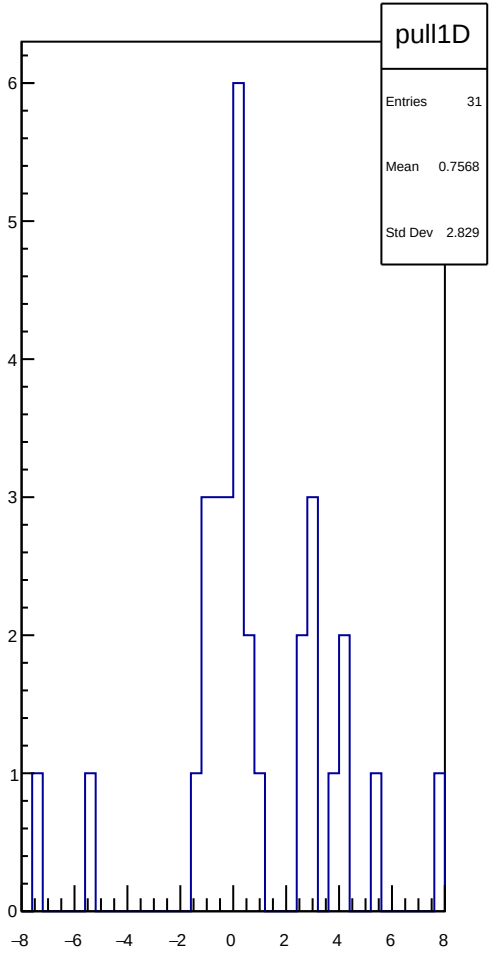

pull1D
Entries 31
Mean −0.1517
Std Dev 0.7828
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

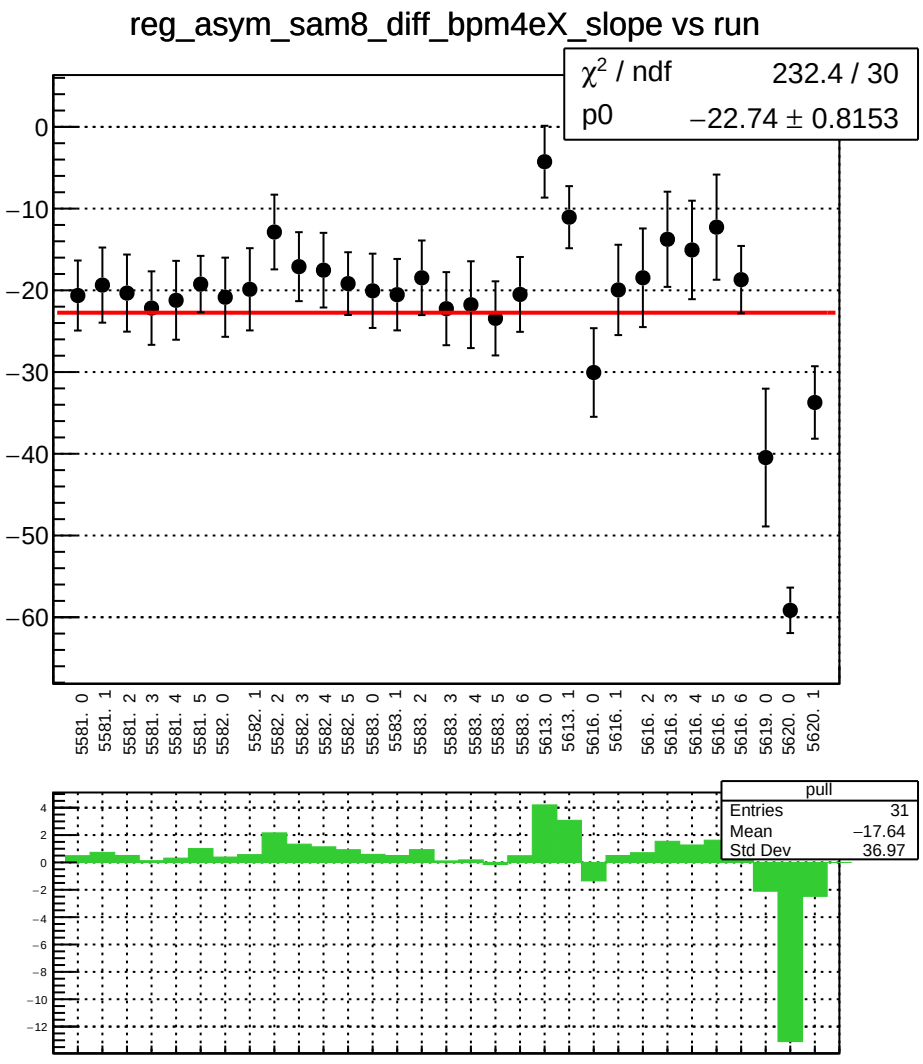

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 1496 / 30
p0 1.479 ± 0.04407
pull
Entries 31
Mean −15.61
Std Dev 31.3
pull1D
Entries 31
Mean −3.025
Std Dev 5.598

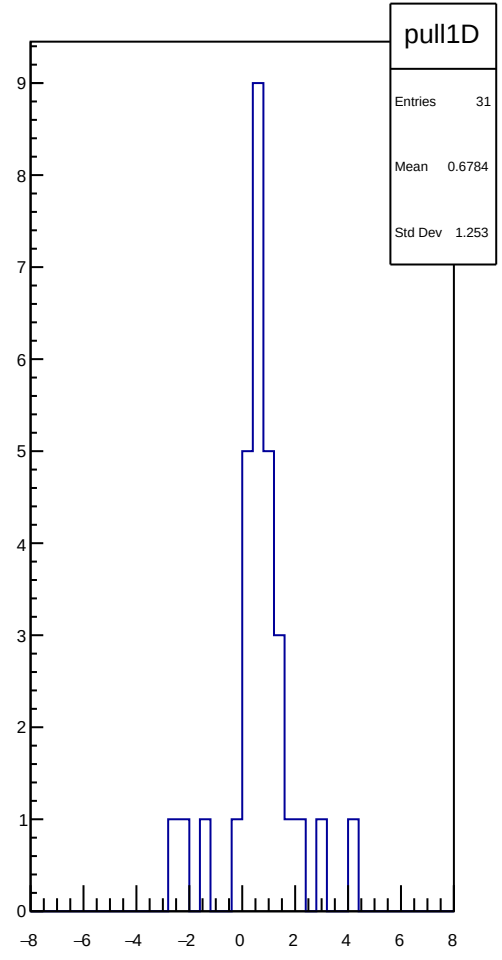

reg_asym_sam8_diff_bpm4aX_slope vs run
χ² / ndf 279.4 / 30
p0 10.34 ± 0.8306
50
40
30
20
10
0
−10
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −26.02
Std Dev 44.33
14
12
10
8
6
4
2
0
−2

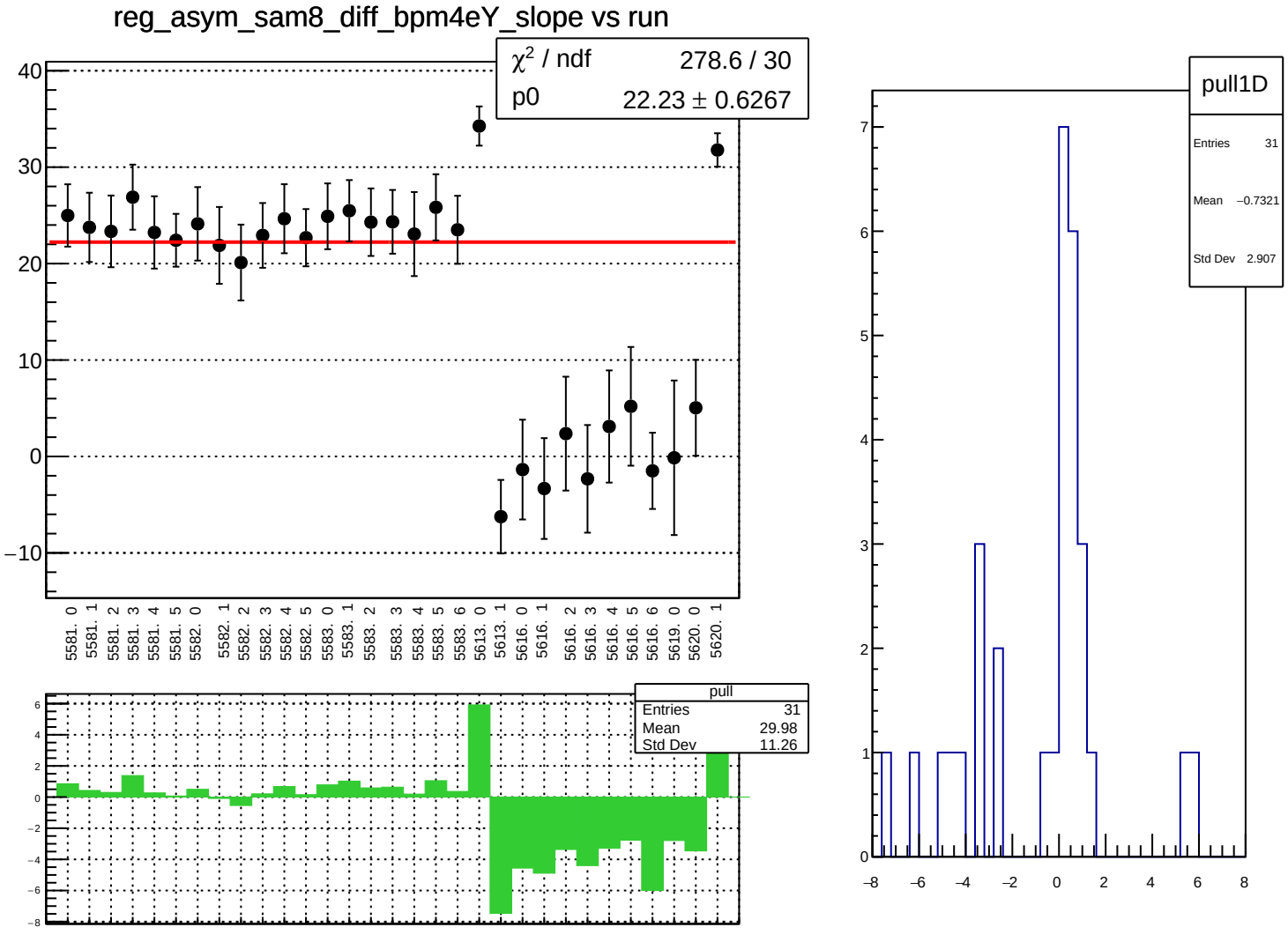

pull1D
Entries 31
Mean −0.7817
Std Dev 1.385
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

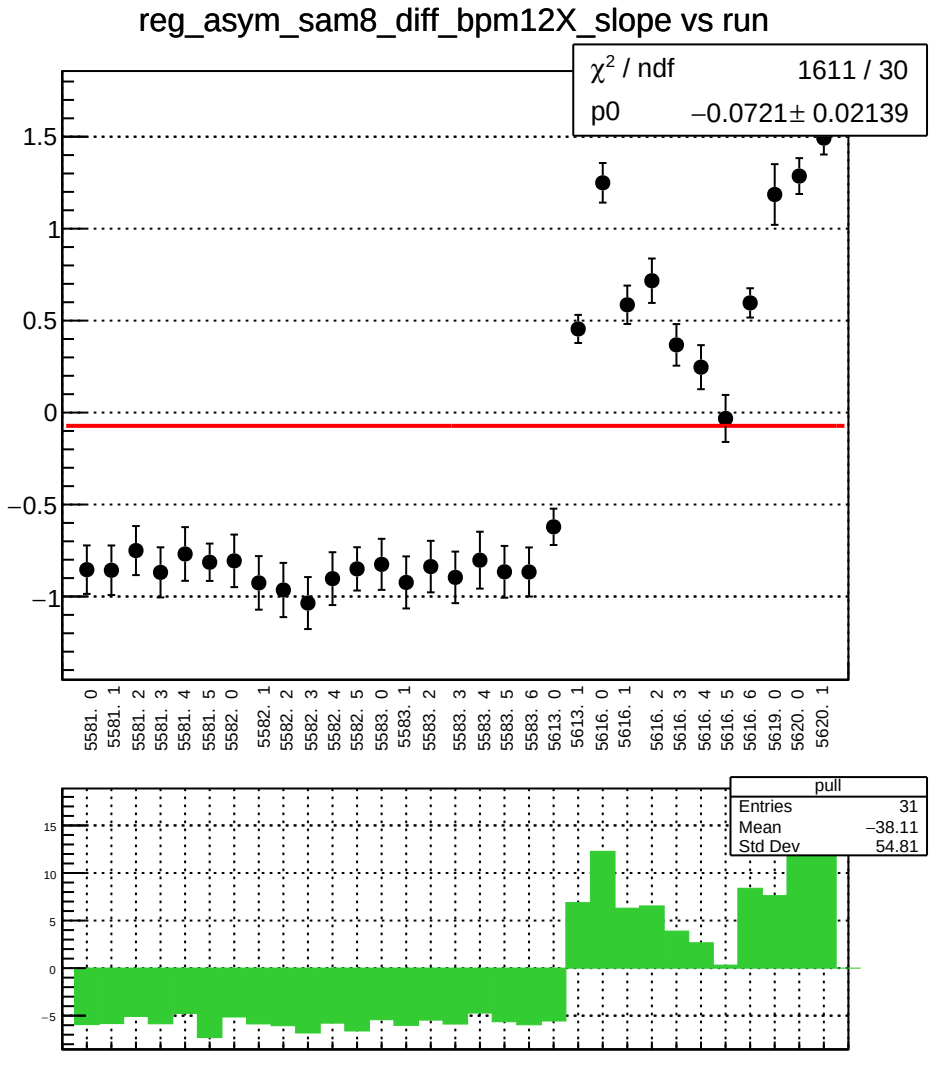

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 265.9 / 30
p0 −33.38 ± 0.4749
−5
−10
−15
−20
−25
−30
−35
−40
−45
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 25.82
Std Dev 6.647
8
6
4
2
0
−2
−4
−6

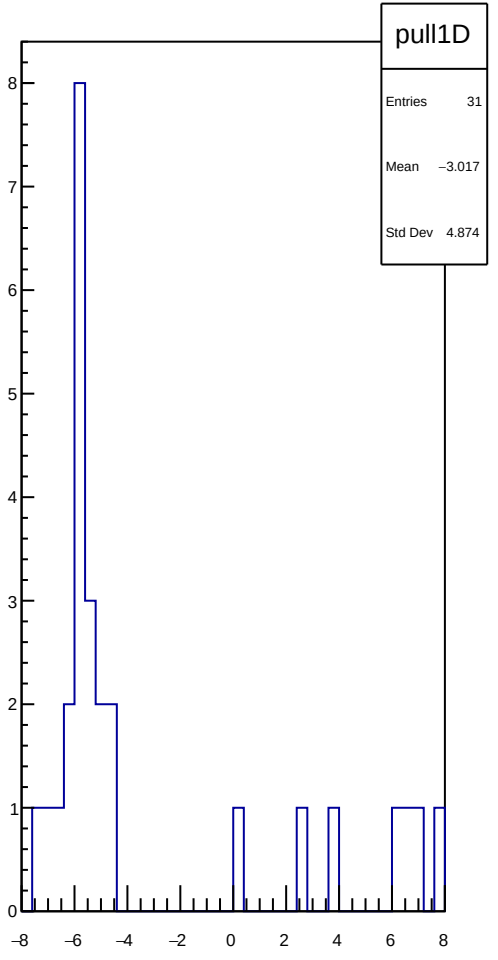

pull1D
Entries 31
Mean 0.7568
Std Dev 2.829
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

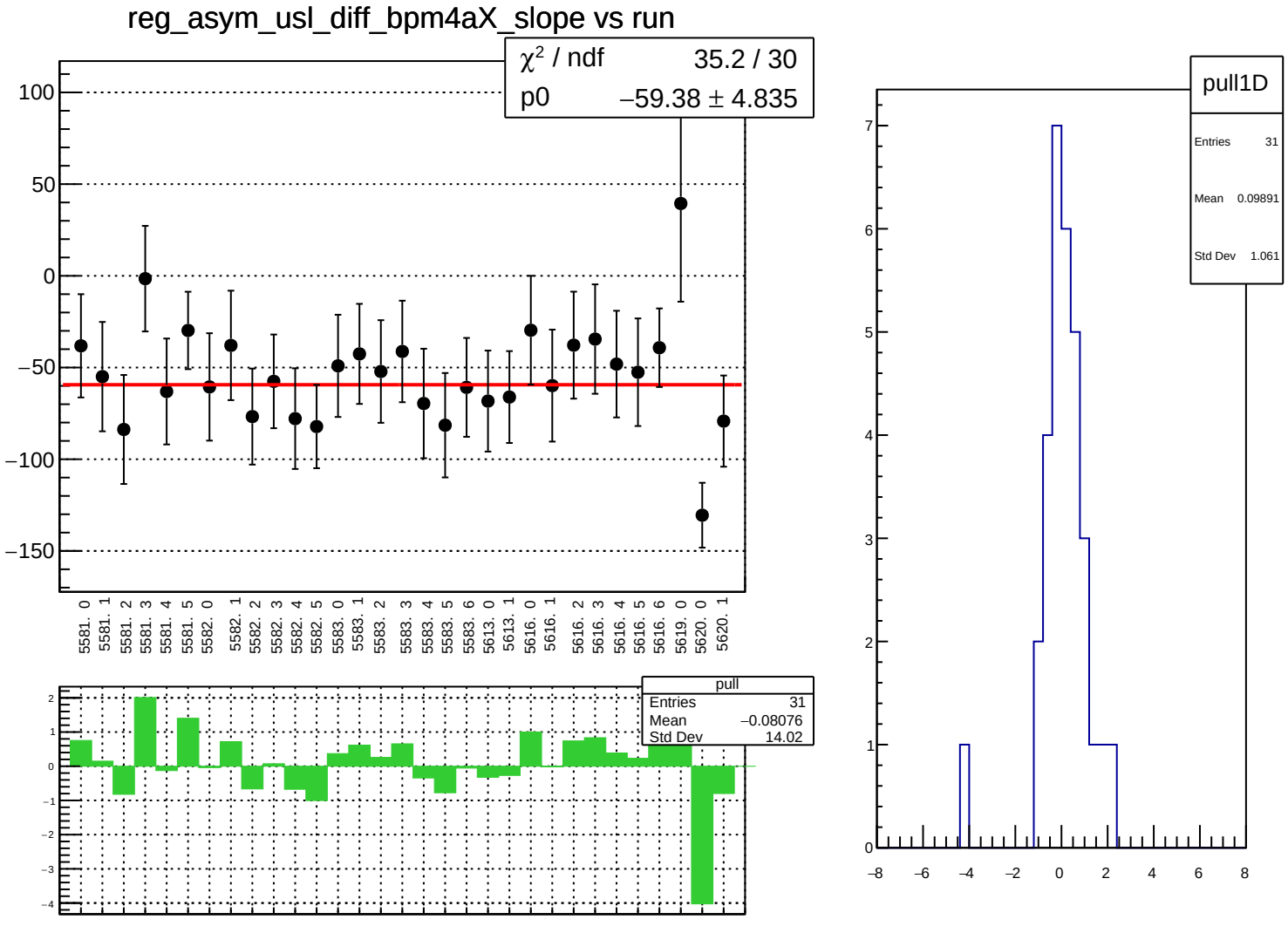

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 232.4 / 30
p0 −22.74 ± 0.8153
0
−10
−20
−30
−40
−50
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −17.64
Std Dev 36.97
4
2
0
−2
−4
−6
−8
−10
−12

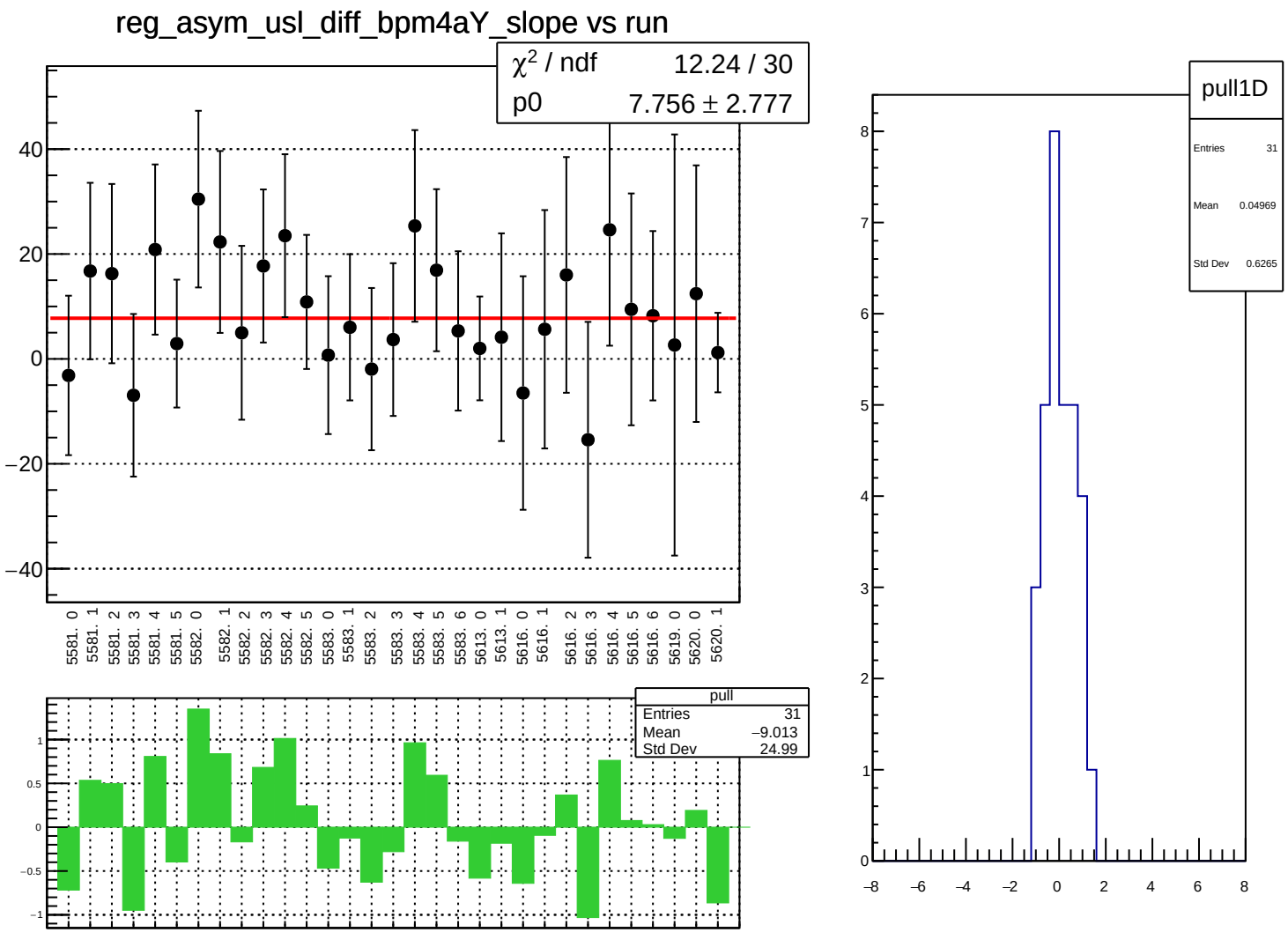

pull1D
Entries 31
Mean 0.6784
Std Dev 1.253
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

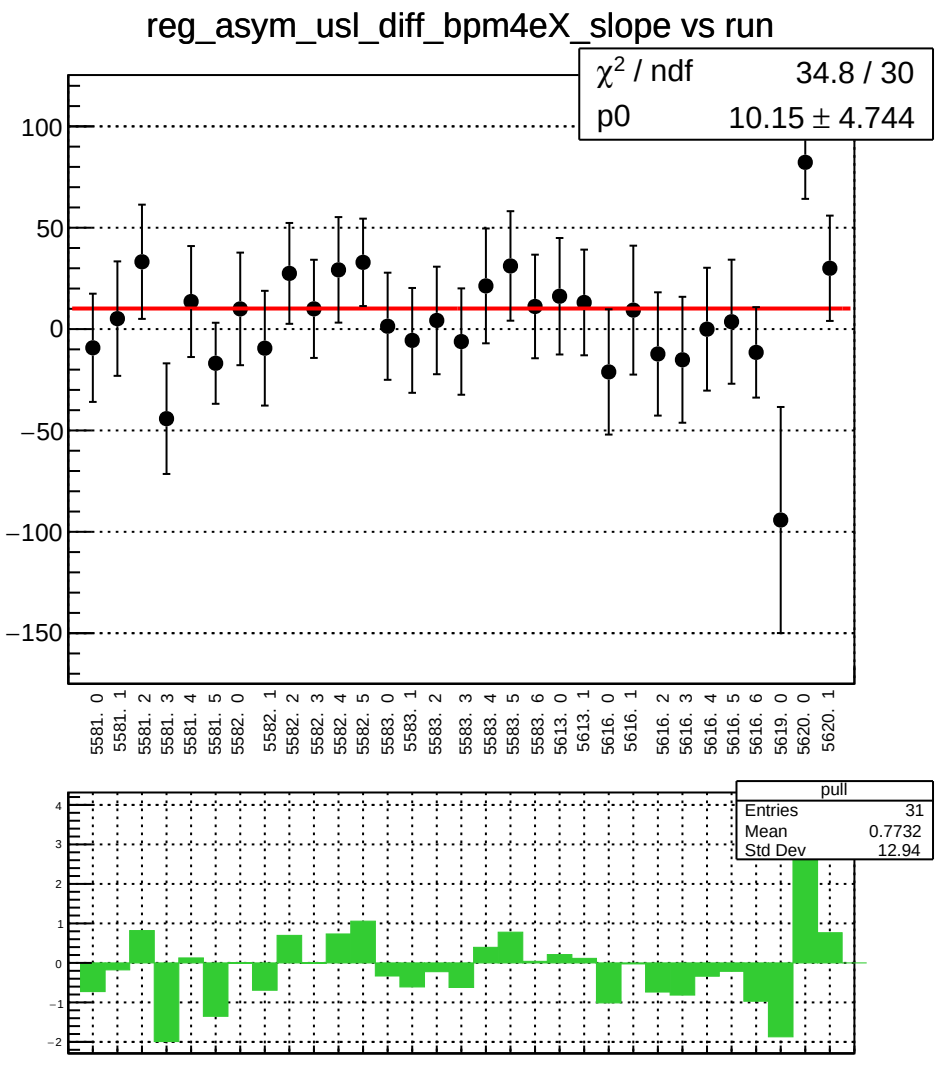

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 278.6 / 30
p0 22.23 ± 0.6267
40
30
20
10
0
−10
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 29.98
Std Dev 11.26
6
4
2
0
−2
−4
−6
−8
pull1D
Entries 31
Mean −0.7321
Std Dev 2.907
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

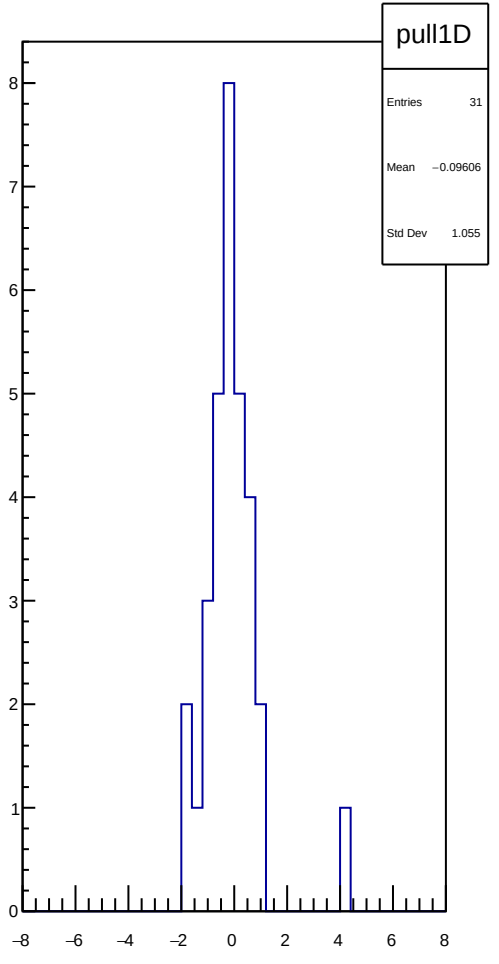

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 1611 / 30
p0 −0.0721± 0.02139
1.5
1
0.5
0
−0.5
−1
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −38.11
Std Dev 54.81
15
10
5
0
−5

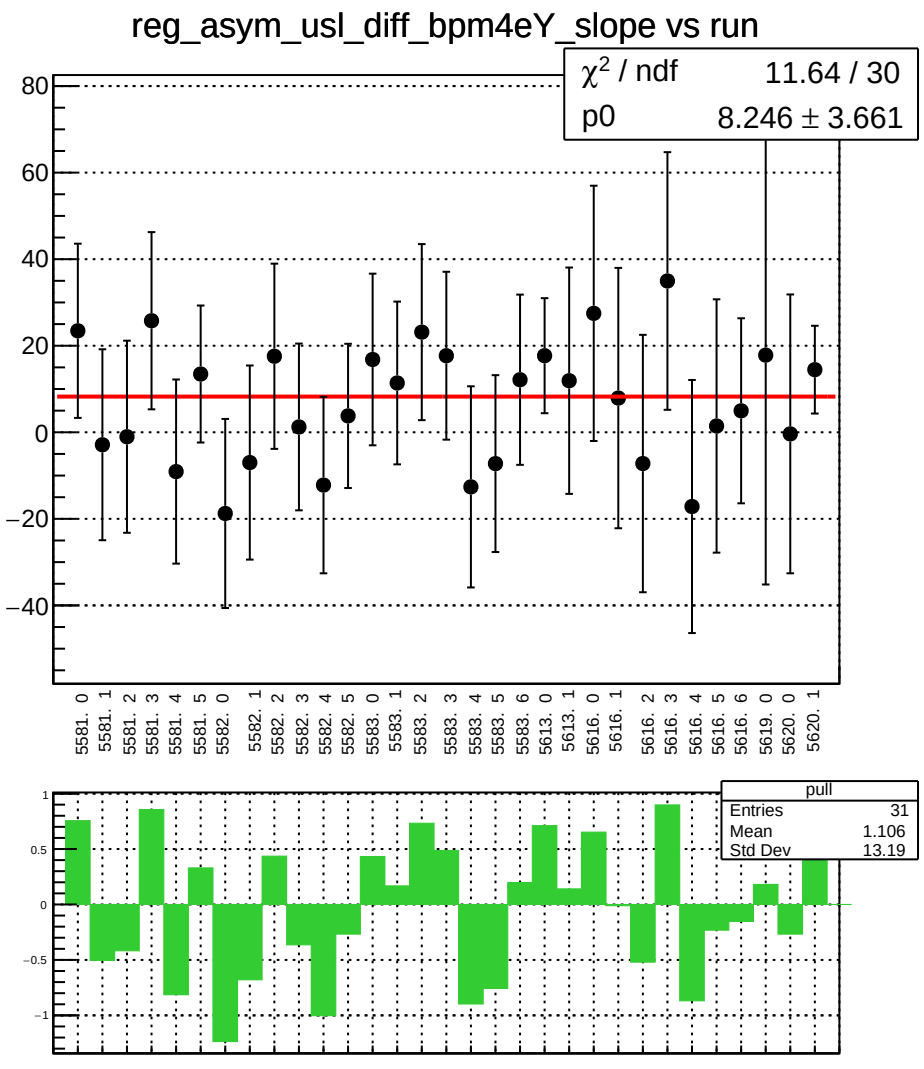

pull1D
Entries 31
Mean −3.017
Std Dev 4.874
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

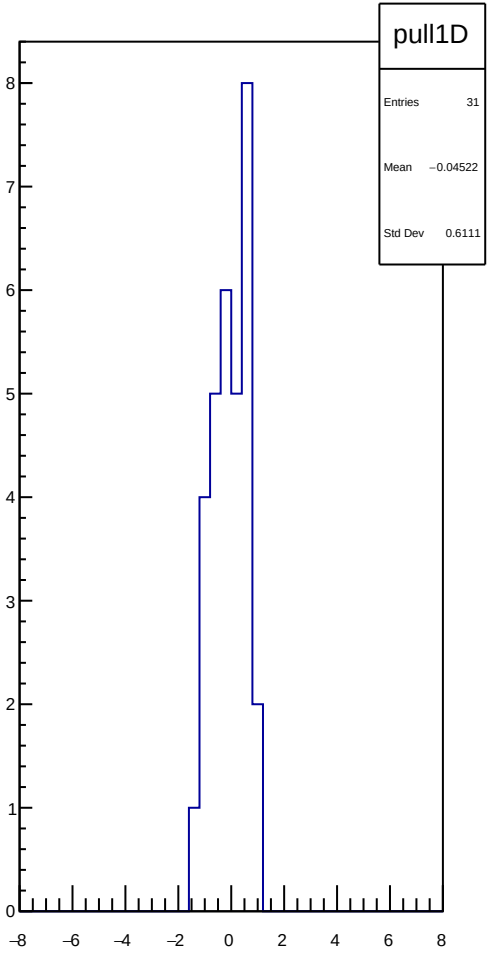

reg_asym_usl_diff_bpm4aX_slope vs run
χ² / ndf 35.2 / 30
p0 −59.38 ± 4.835
100
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −0.08076
Std Dev 14.02
2
1
0
−1
−2
−3
−4
pull1D
Entries 31
Mean 0.09891
Std Dev 1.061
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

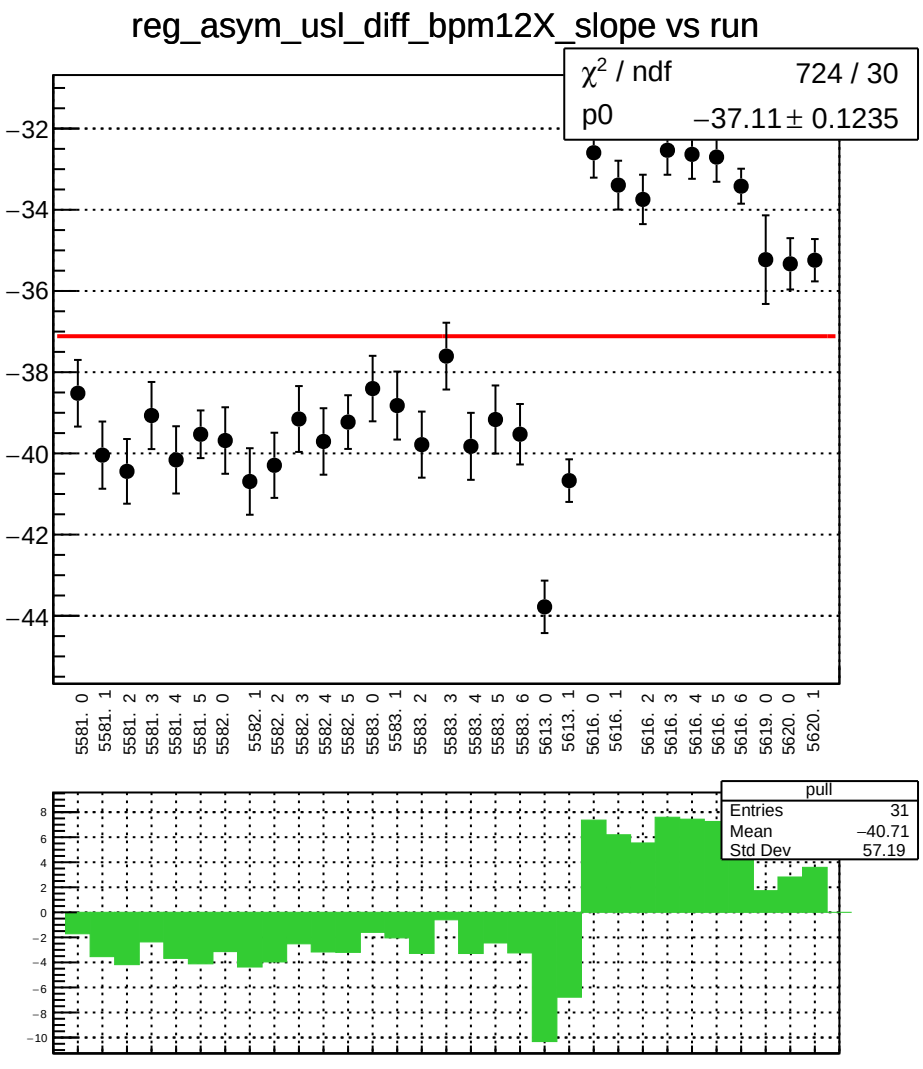

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 12.24 / 30
p0 7.756 ± 2.777
40
20
0
−20
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −9.013
Std Dev 24.99
1
0.5
0
−0.5
−1
pull1D
Entries 31
Mean 0.04969
Std Dev 0.6265
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

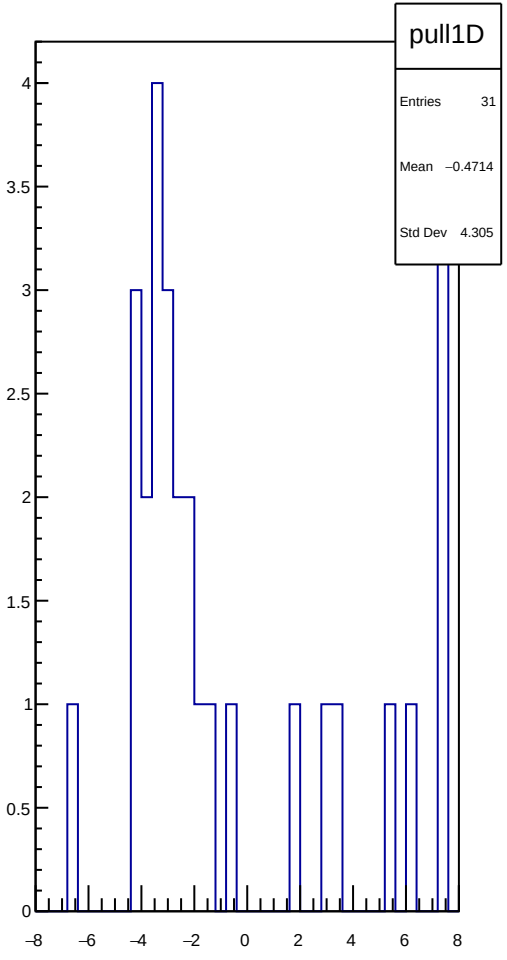

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 34.8 / 30
p0 10.15 ± 4.744
100
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 0.7732
Std Dev 12.94
4
3
2
1
0
−1
−2

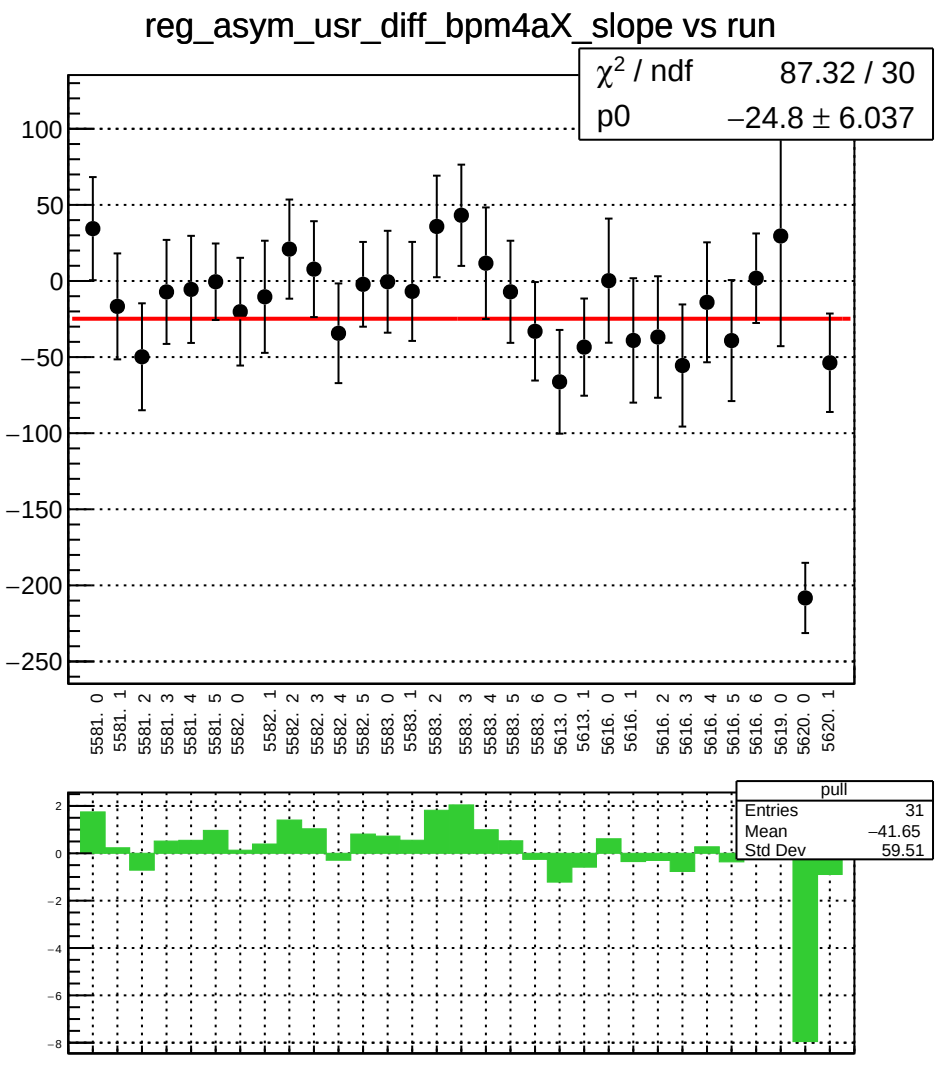

pull1D
Entries 31
Mean −0.09606
Std Dev 1.055
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

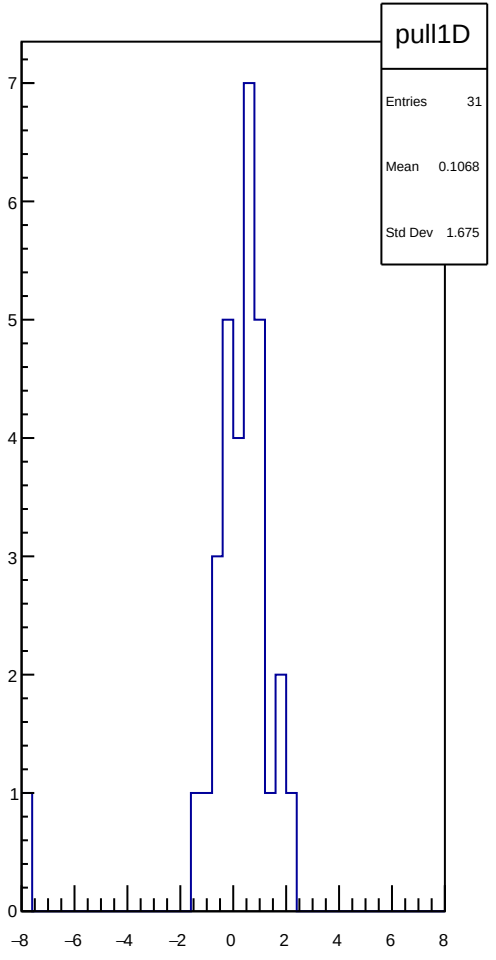

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 11.64 / 30
p0 8.246 ± 3.661
80
60
40
20
0
−20
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 1.106
Std Dev 13.19
1
0.5
0
−0.5
−1

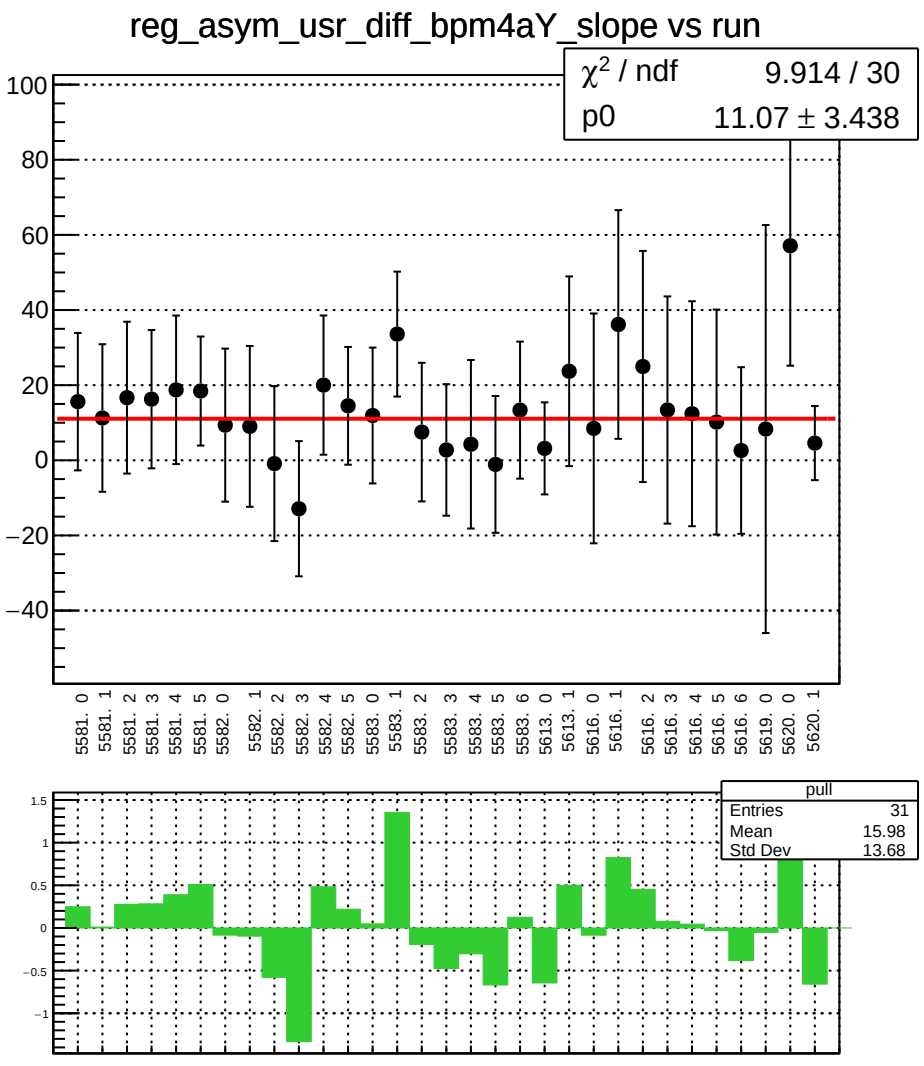

pull1D
Entries 31
Mean −0.04522
Std Dev 0.6111
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

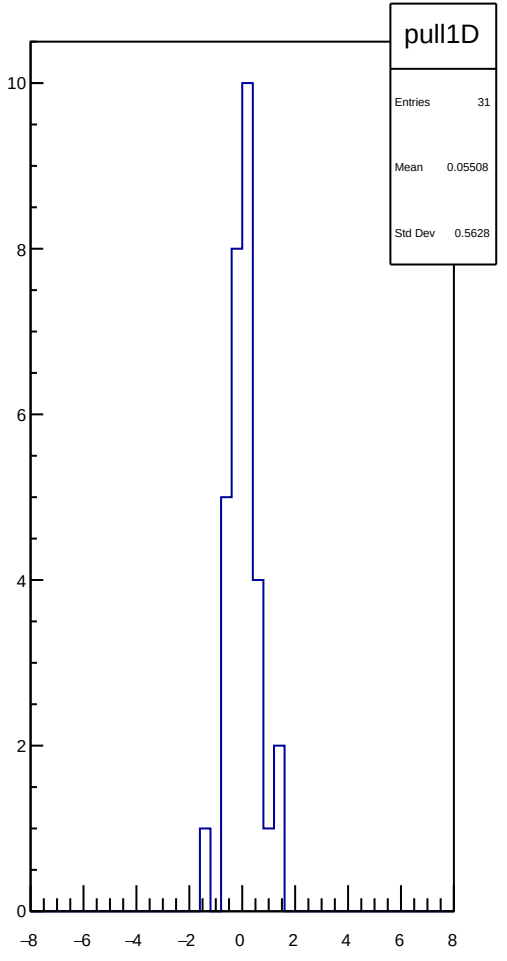

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 724 / 30
p0 −37.11 ± 0.1235
−32
−34
−36
−38
−40
−42
−44
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −40.71
Std Dev 57.19
8
6
4
2
0
−2
−4
−6
−8
−10

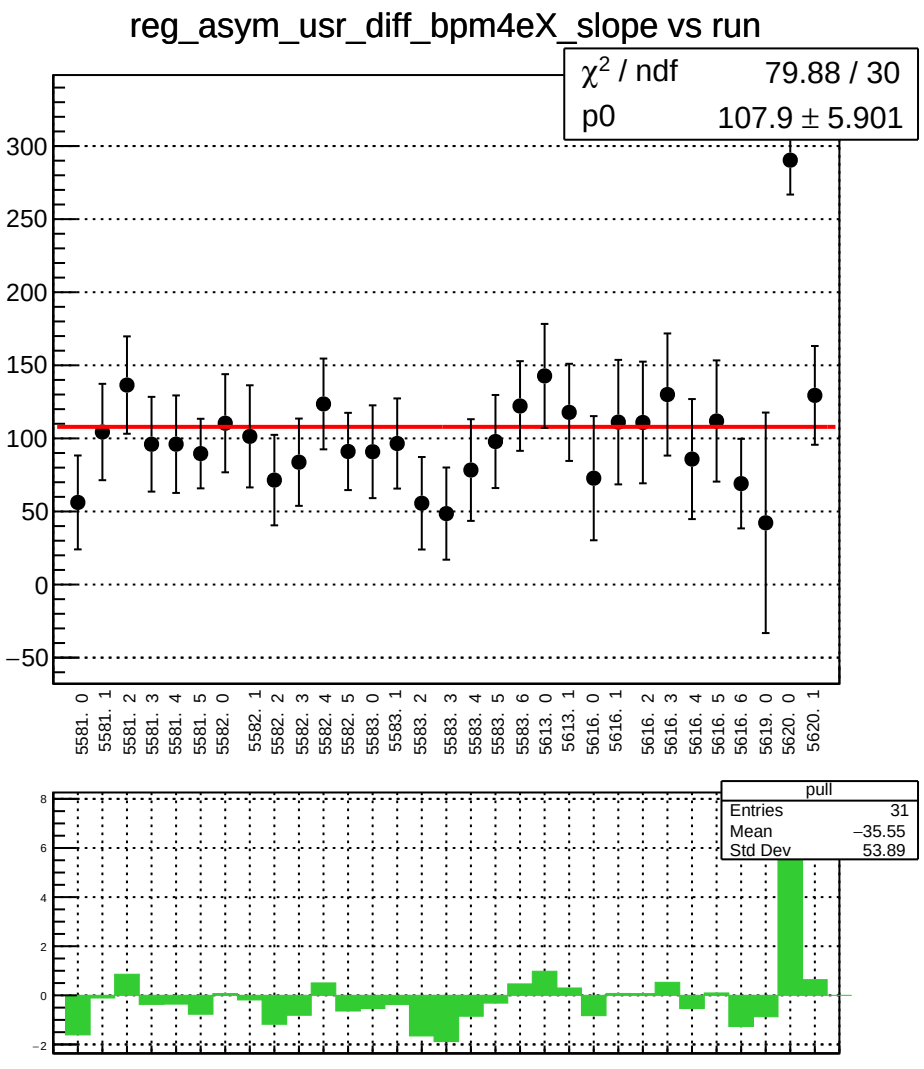

pull1D
Entries 31
Mean −0.4714
Std Dev 4.305
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

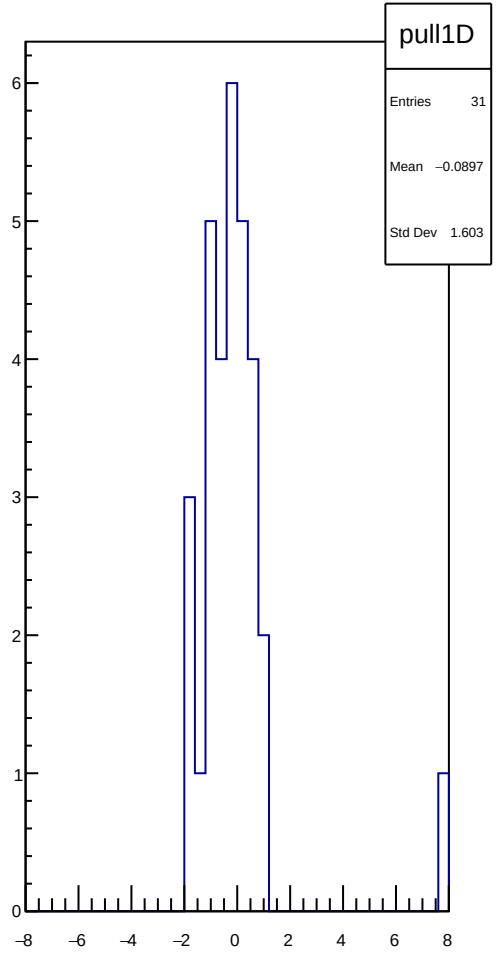

reg_asym_usr_diff_bpm4aX_slope vs run
χ² / ndf 87.32 / 30
p0 −24.8 ± 6.037
100
50
0
−50
−100
−150
−200
−250
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −41.65
Std Dev 59.51
2
0
−2
−4
−6
−8

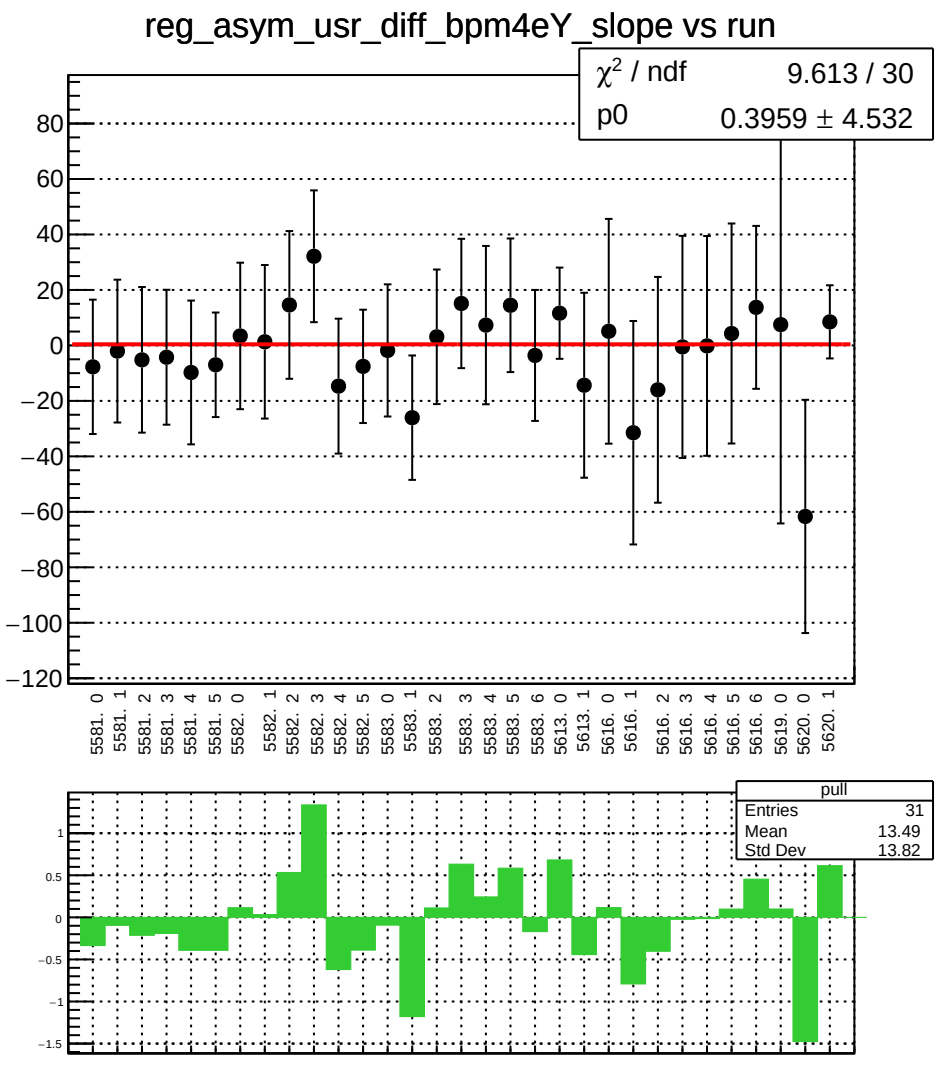

pull1D
Entries 31
Mean 0.1068
Std Dev 1.675
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

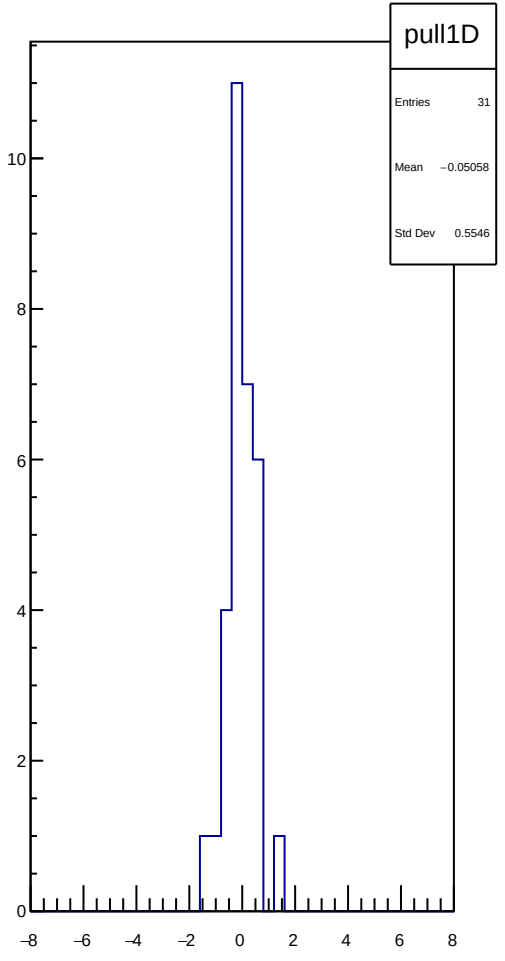

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 9.914 / 30
p0 11.07 ± 3.438
100
80
60
40
20
0
−20
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 15.98
Std Dev 13.68
1.5
1
0.5
0
−0.5
−1

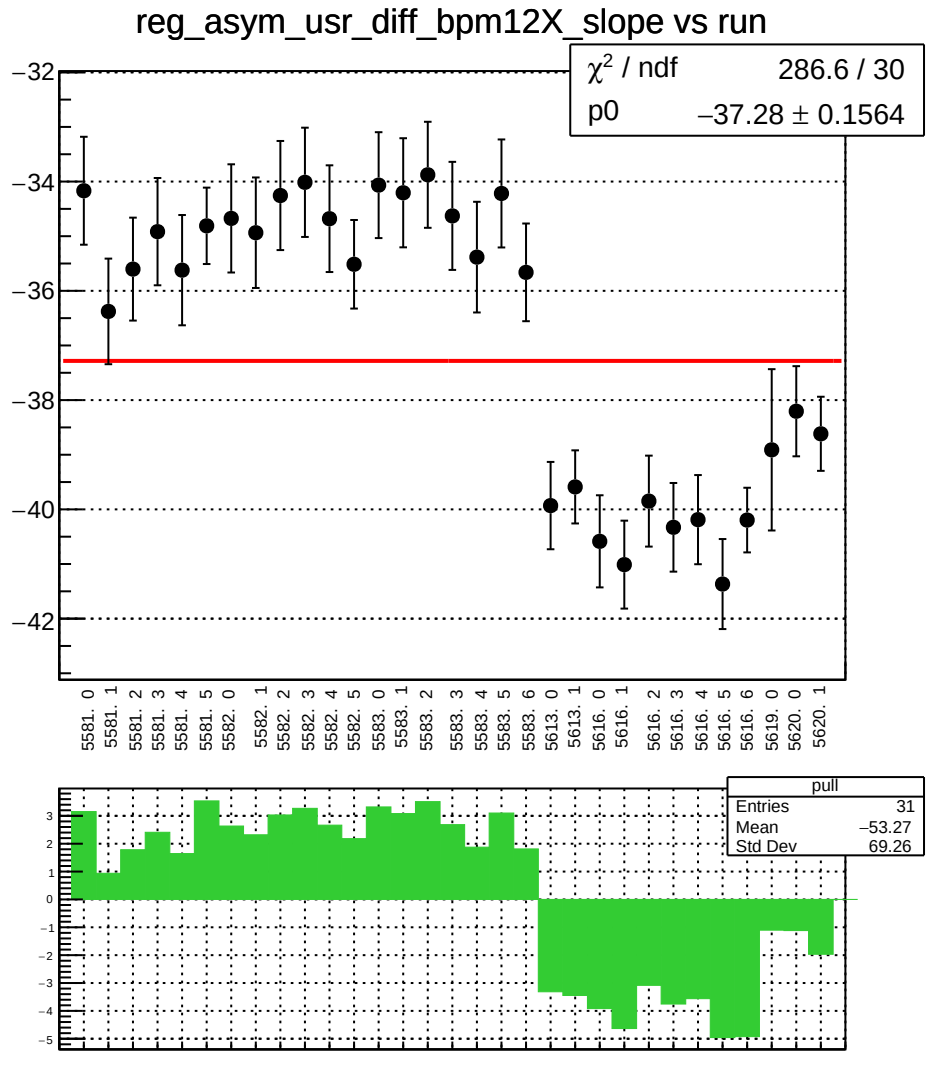

pull1D
Entries 31
Mean 0.05508
Std Dev 0.5628
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

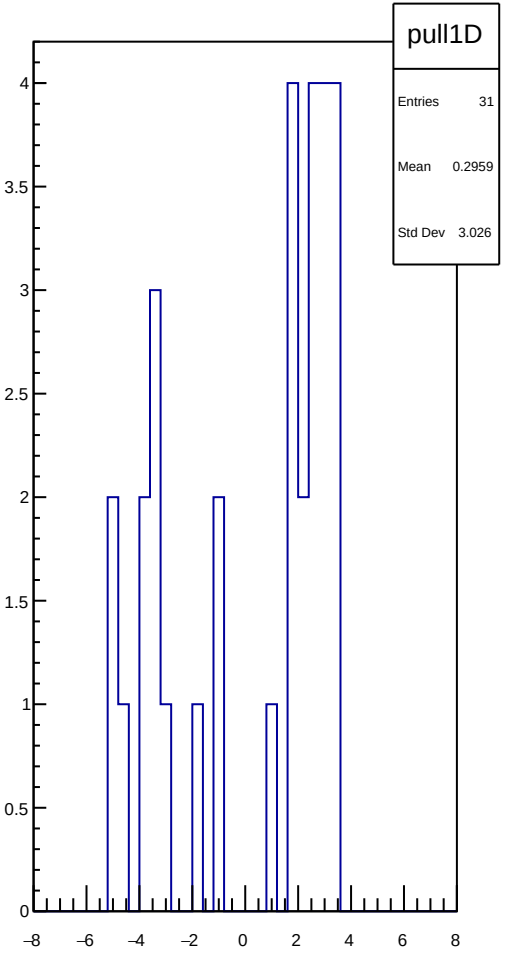

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 79.88 / 30
p0 107.9 ± 5.901
300
250
200
150
100
50
0
−50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −35.55
Std Dev 53.89
8
6
4
2
0
−2

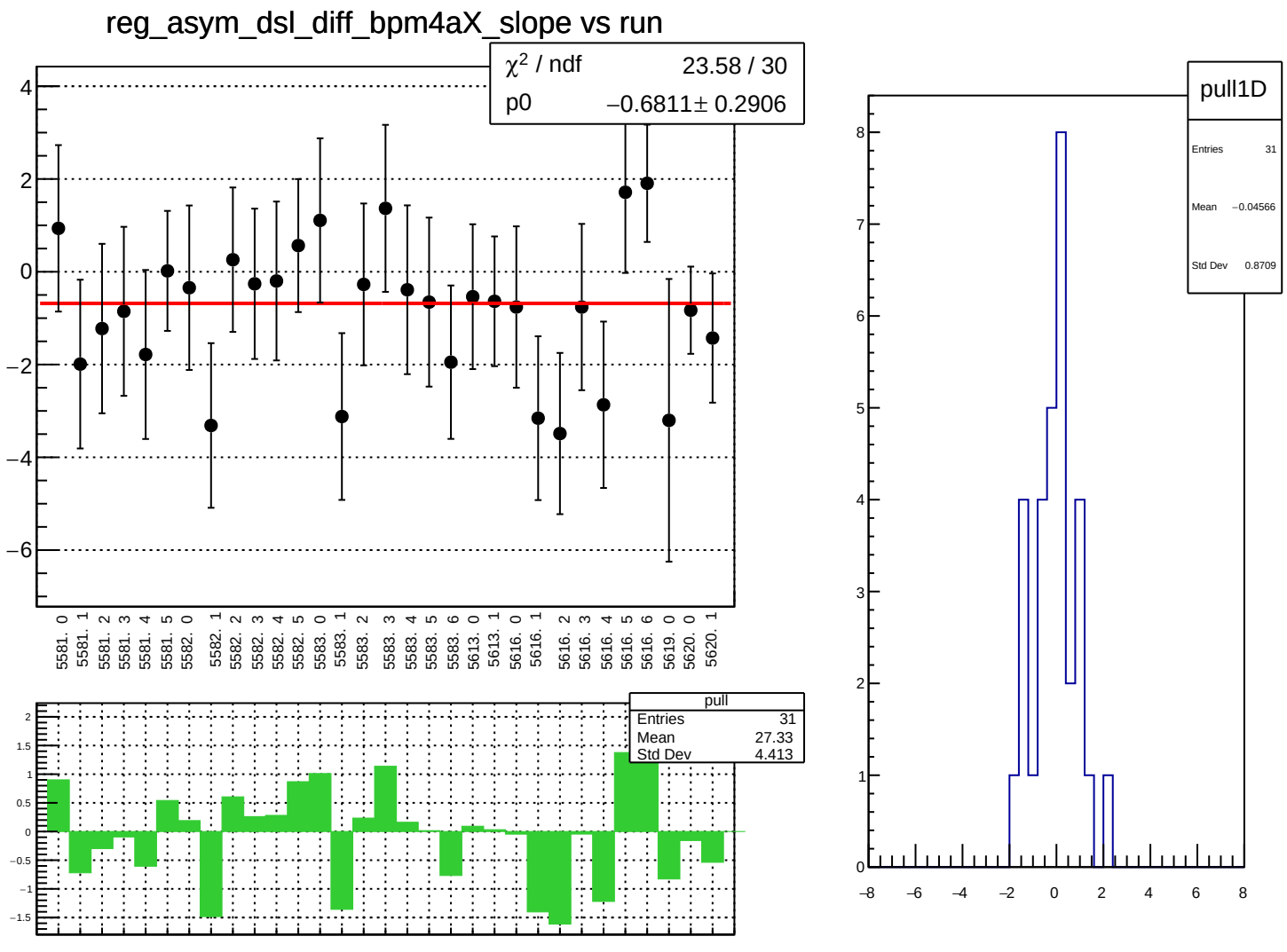

pull1D
Entries 31
Mean −0.0897
Std Dev 1.603
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

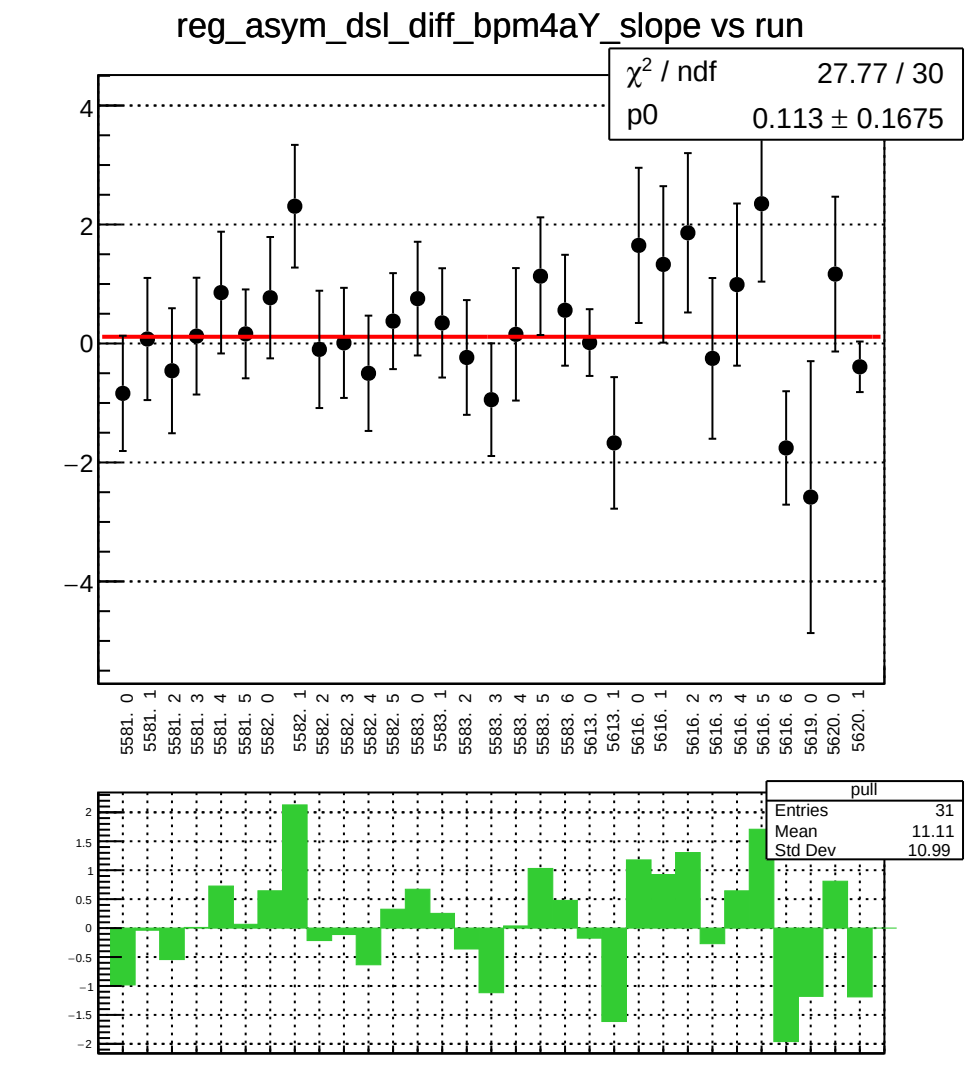

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 9.613 / 30
p0 0.3959 ± 4.532
80
60
40
20
0
−20
−40
−60
−80
−100
−120
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 13.49
Std Dev 13.82
1
0.5
0
−0.5
−1
−1.5

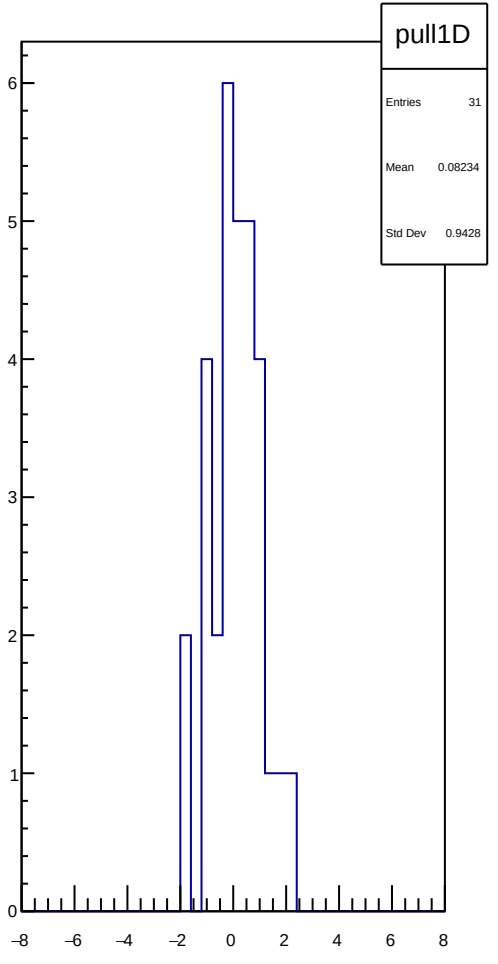

pull1D
Entries 31
Mean −0.05058
Std Dev 0.5546
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

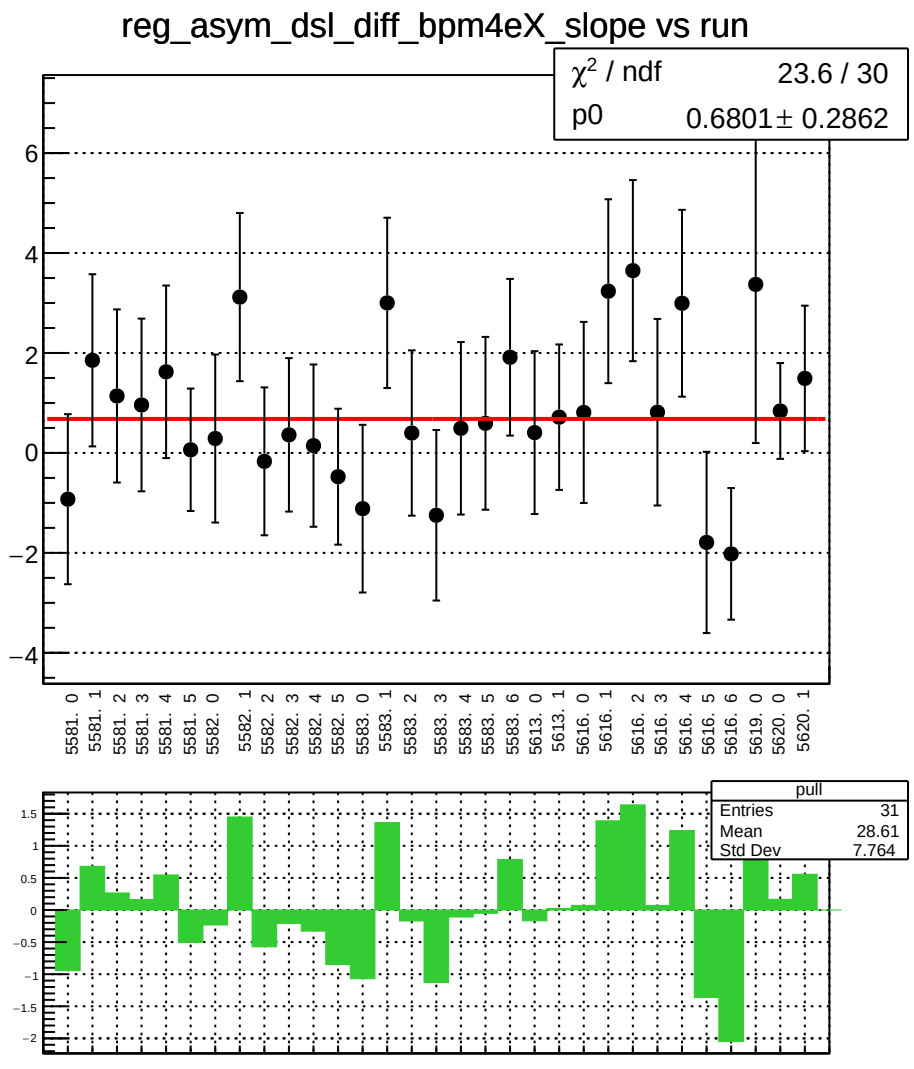

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 286.6 / 30
p0 −37.28 ± 0.1564
−32
−34
−36
−38
−40
−42
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −53.27
Std Dev 69.26
3
2
1
0
−1
−2
−3
−4
−5

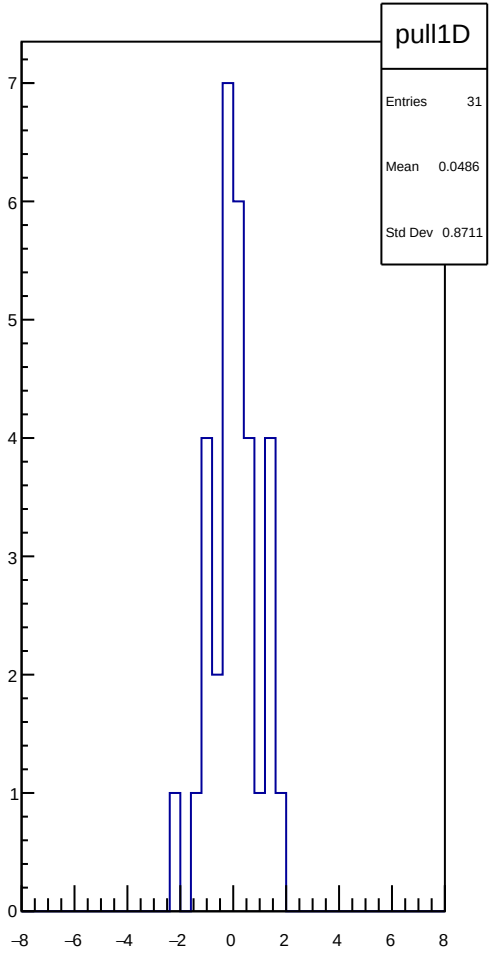

pull1D
Entries 31
Mean 0.2959
Std Dev 3.026
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

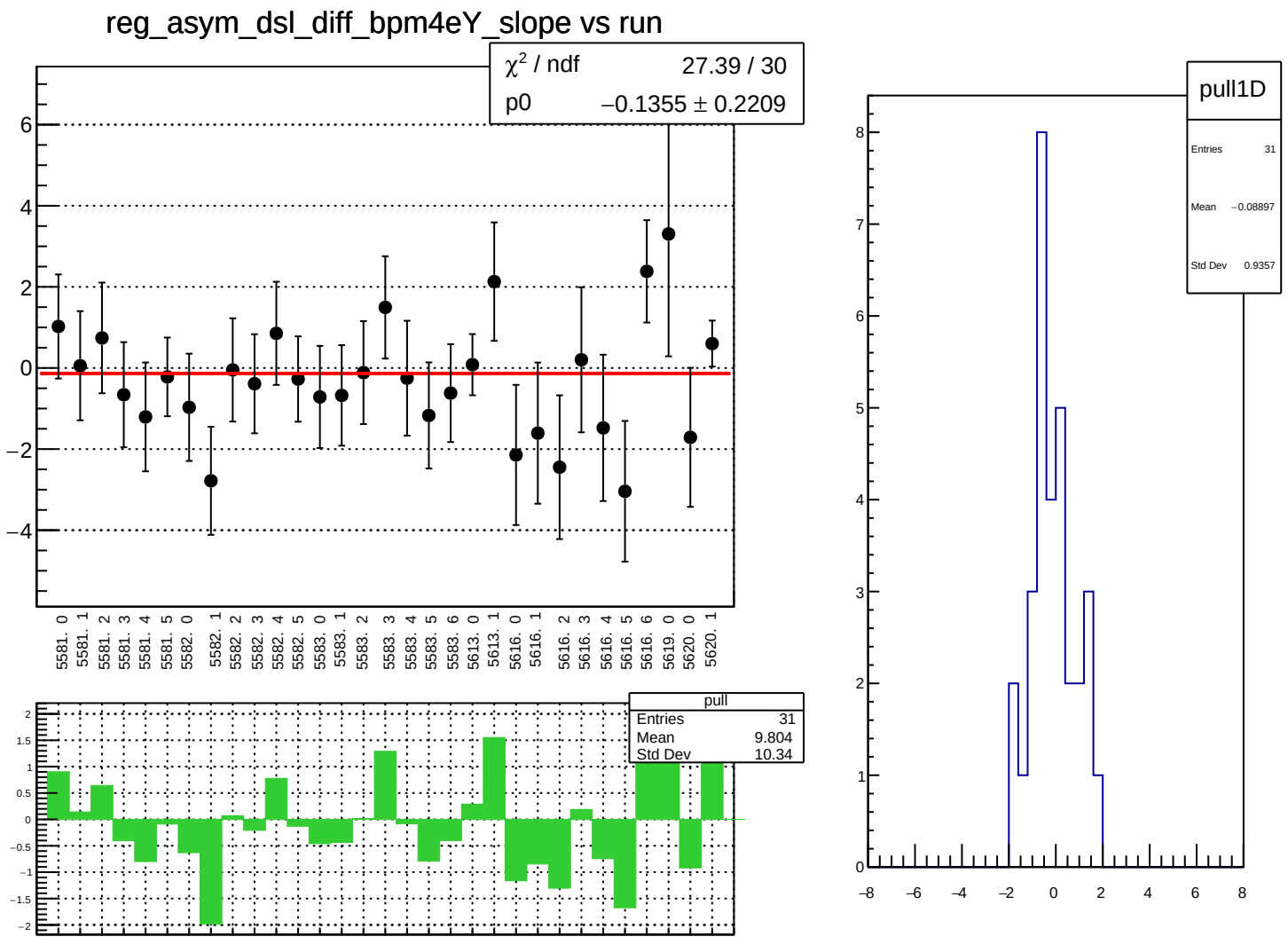

reg_asym_dsl_diff_bpm4aX_slope vs run
χ² / ndf 23.58 / 30
p0 −0.6811± 0.2906
4
2
0
−2
−4
−6
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 27.33
Std Dev 4.413
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean −0.04566
Std Dev 0.8709
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

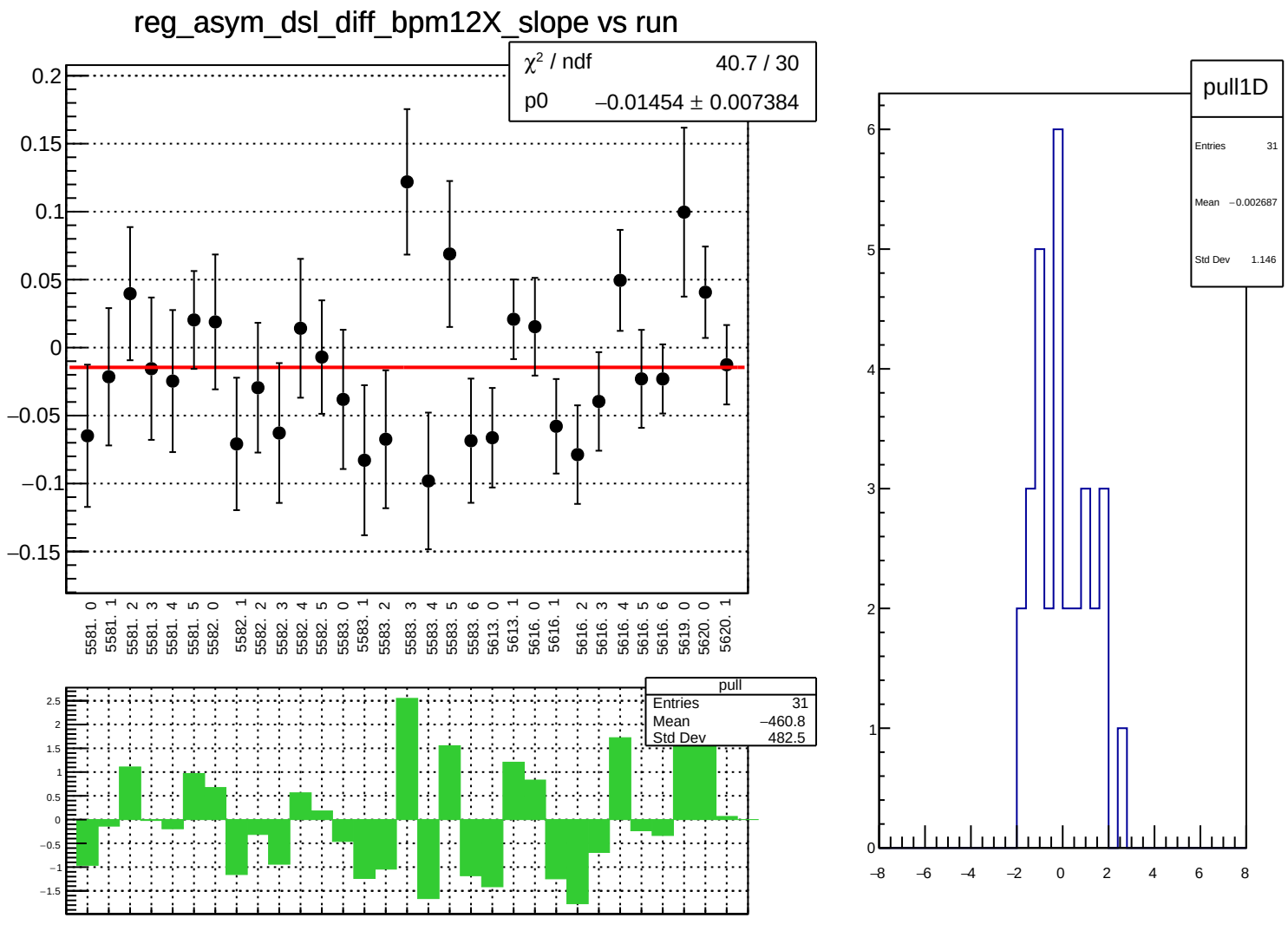

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 27.77 / 30
p0 0.113 ± 0.1675
4
2
0
−2
−4
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 11.11
Std Dev 10.99
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

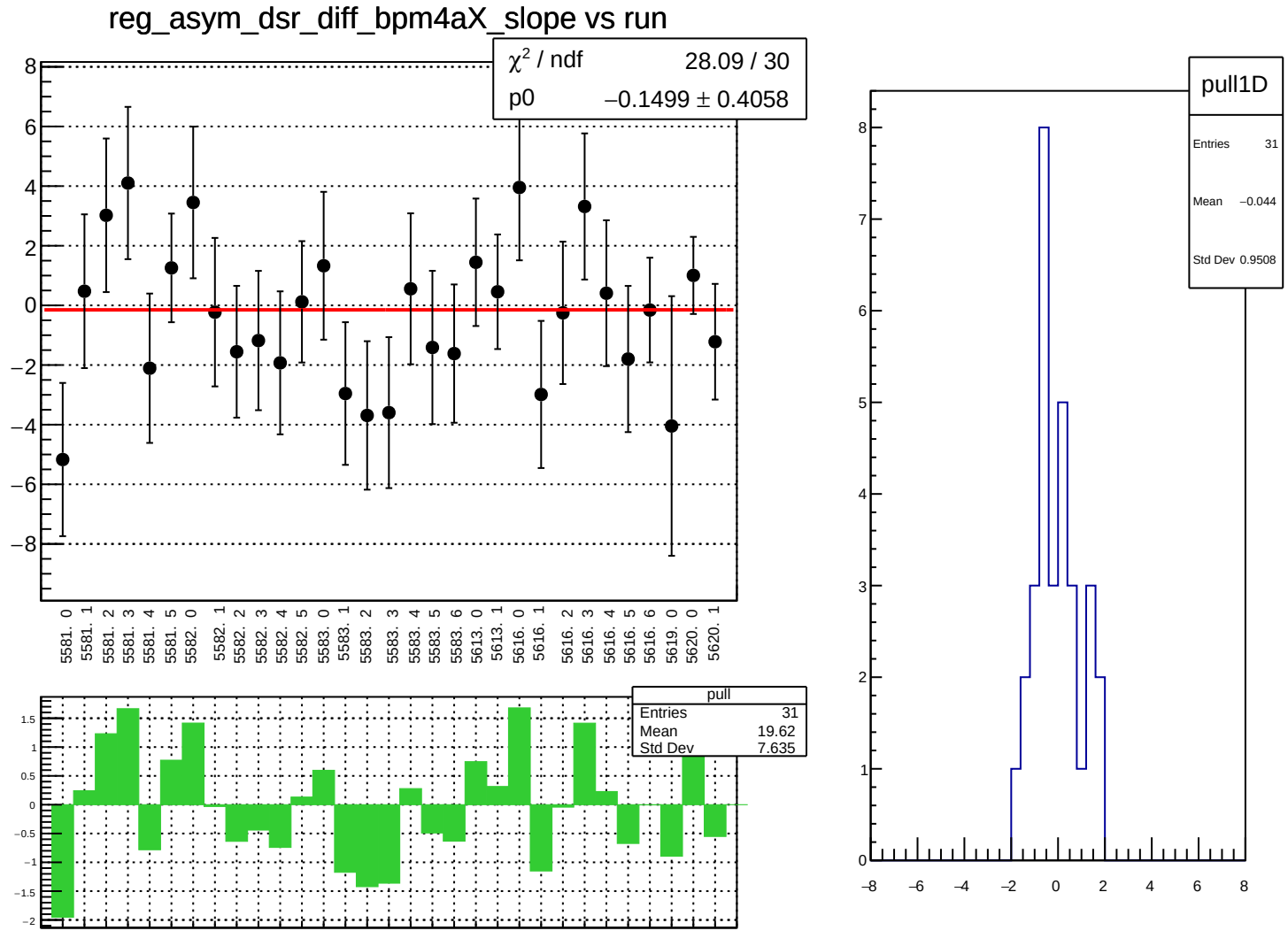

pull1D
Entries 31
Mean 0.08234
Std Dev 0.9428
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

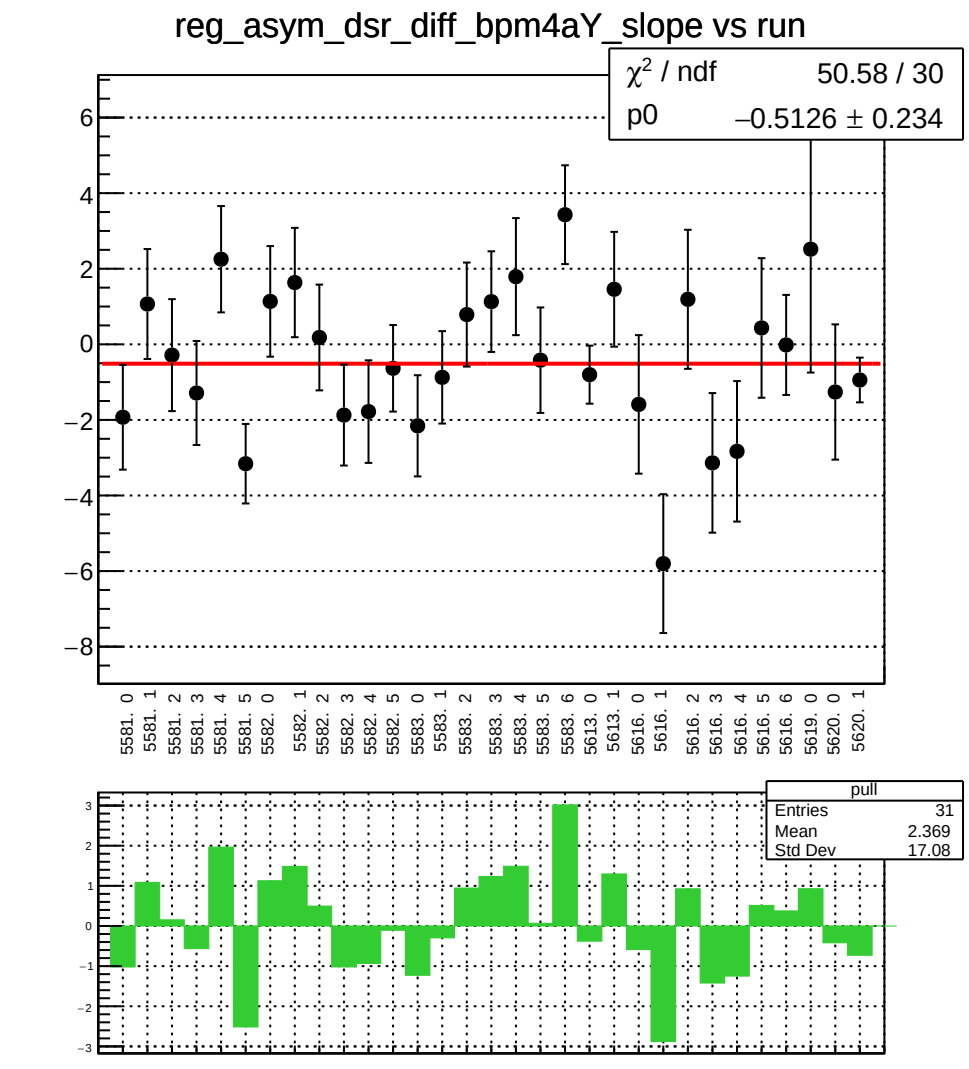

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 23.6 / 30
p0 0.6801 ± 0.2862
6
4
2
0
−2
−4
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 28.61
Std Dev 7.764
1.5
1
0.5
0
−0.5
−1
−1.5
−2

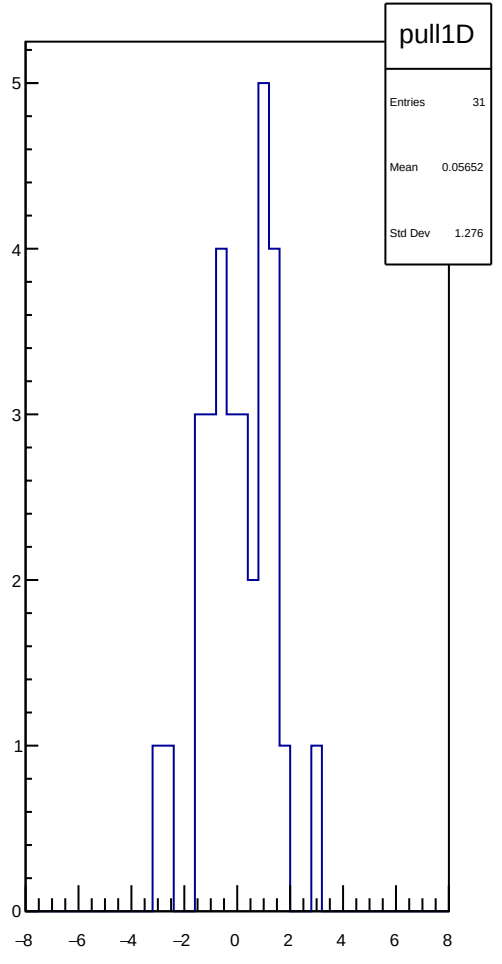

pull1D
Entries 31
Mean 0.0486
Std Dev 0.8711
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

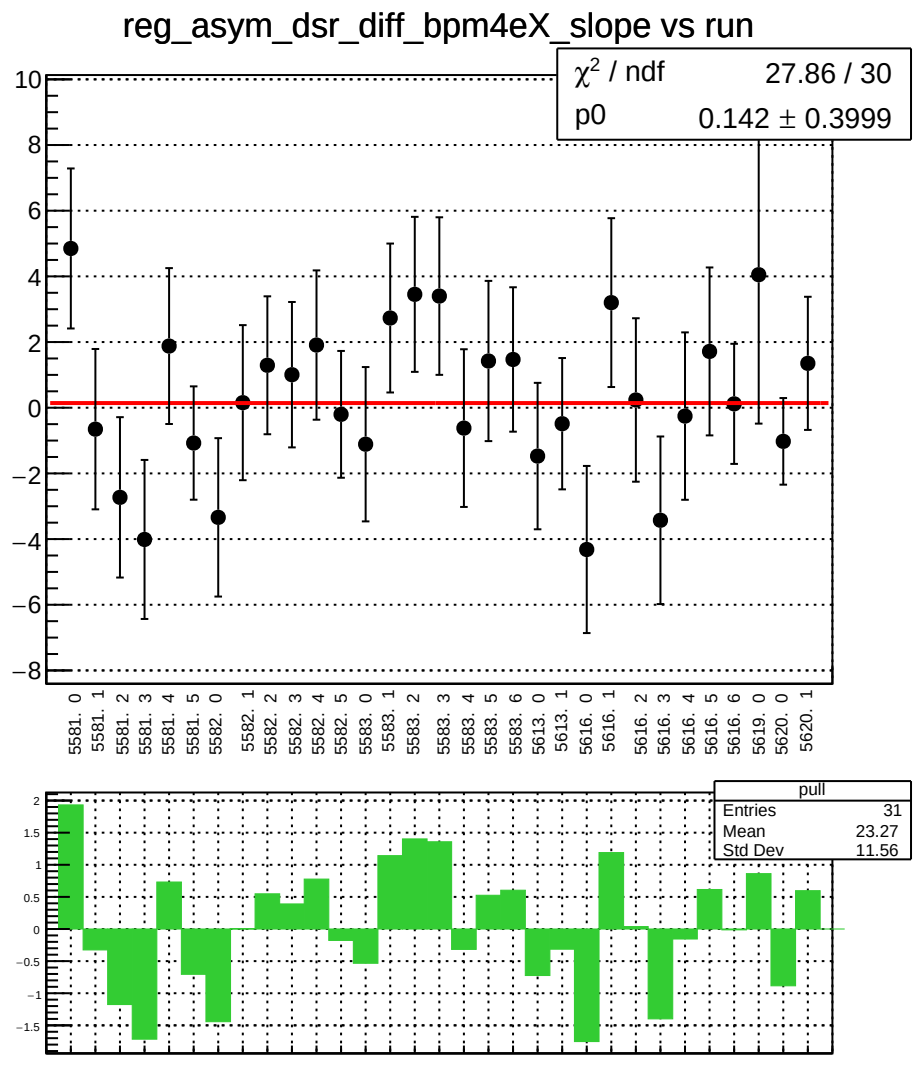

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 27.39 / 30
p0 −0.1355 ± 0.2209
6
4
2
0
−2
−4
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 9.804
Std Dev 10.34
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.08897
Std Dev 0.9357
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

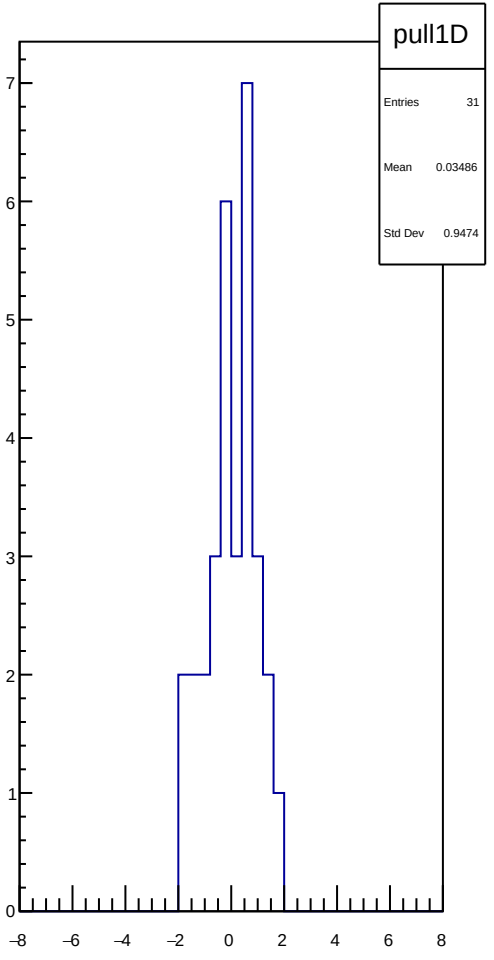

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 40.7 / 30
p0 −0.01454 ± 0.007384
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −460.8
Std Dev 482.5
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean −0.002687
Std Dev 1.146
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

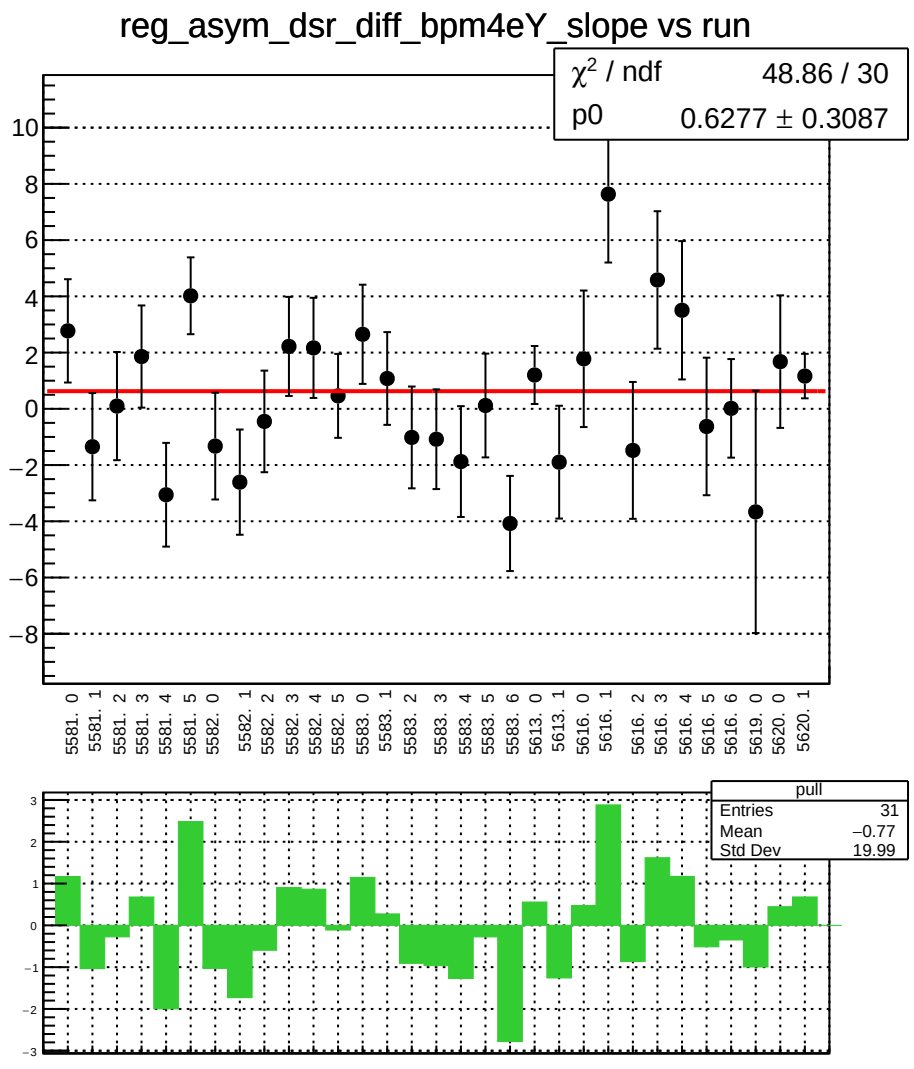

reg_asym_dsr_diff_bpm4aX_slope vs run
χ² / ndf 28.09 / 30
p0 −0.1499 ± 0.4058
pull
Entries 31
Mean 19.62
Std Dev 7.635
pull1D
Entries 31
Mean −0.044
Std Dev 0.9508

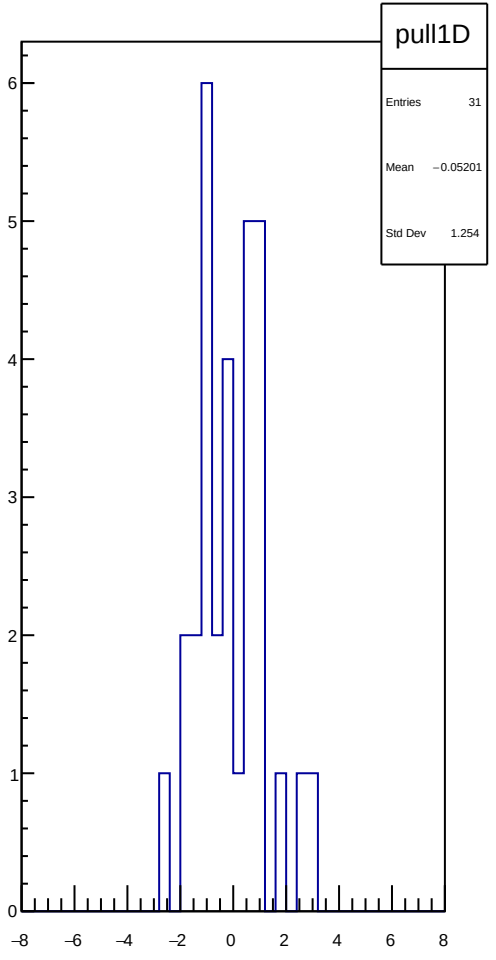

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 50.58 / 30
p0 −0.5126 ± 0.234
pull
Entries 31
Mean 2.369
Std Dev 17.08

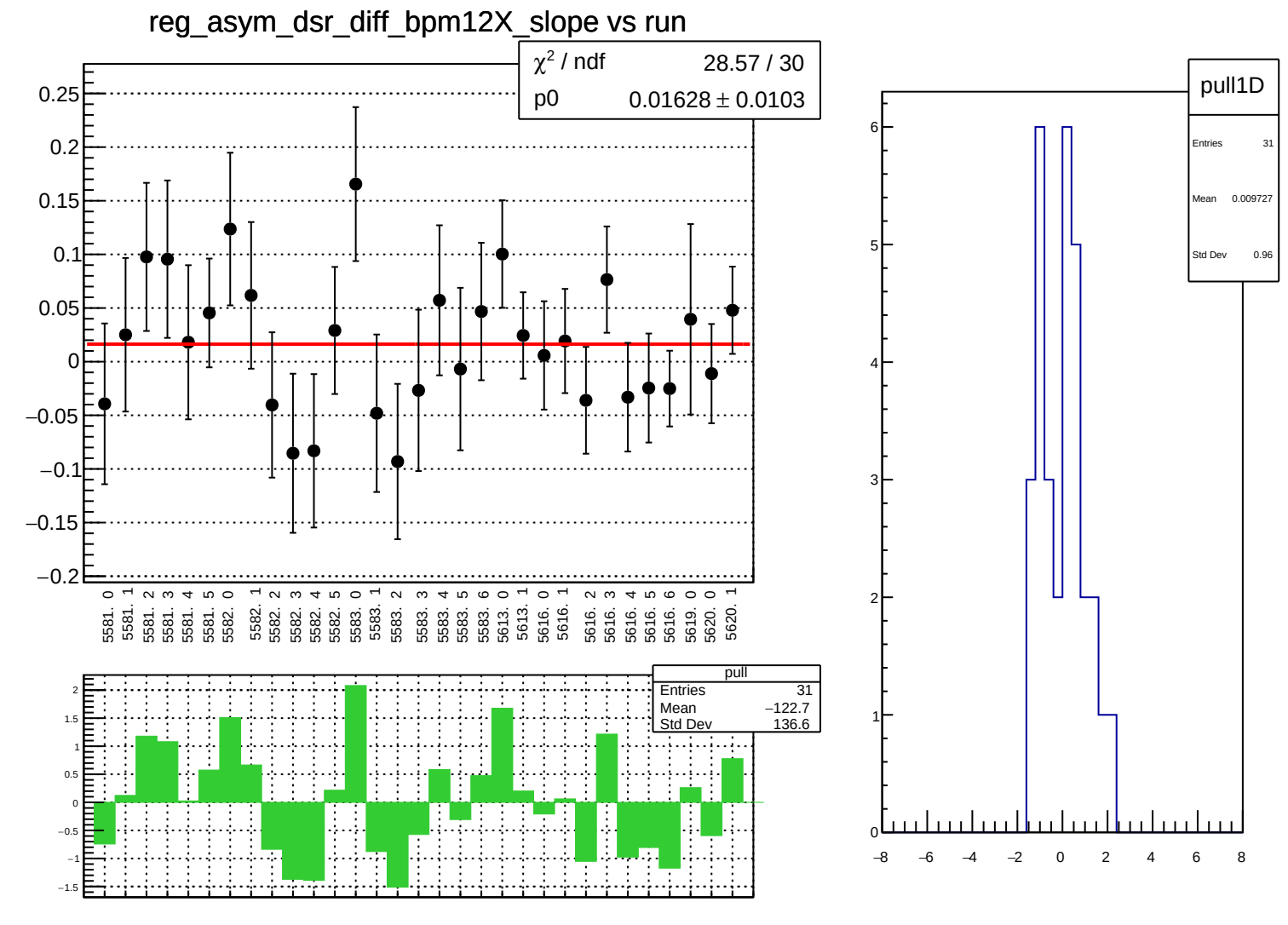

pull1D
Entries 31
Mean 0.05652
Std Dev 1.276

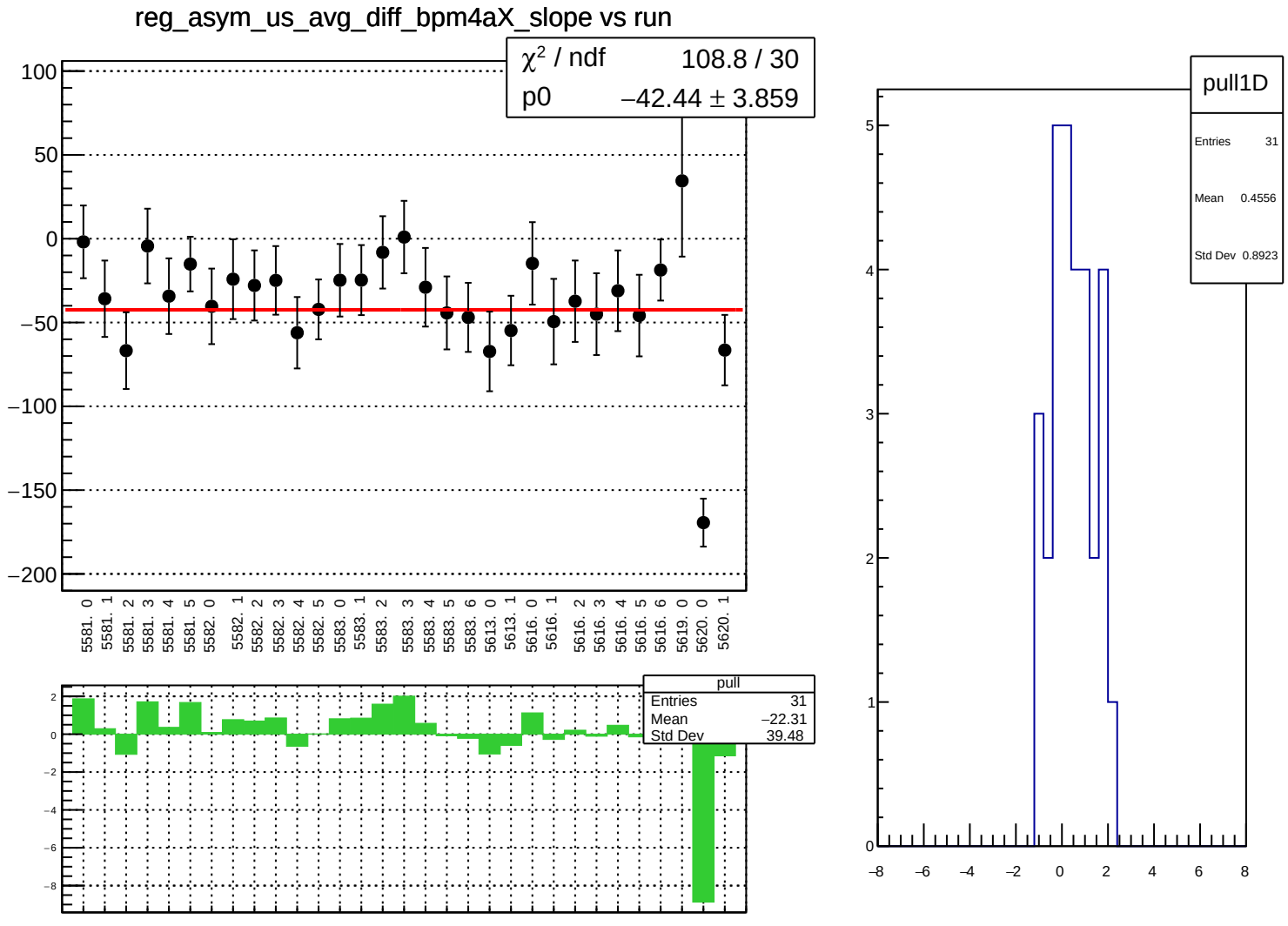

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 27.86 / 30
p0 0.142 ± 0.3999
pull
Entries 31
Mean 23.27
Std Dev 11.56

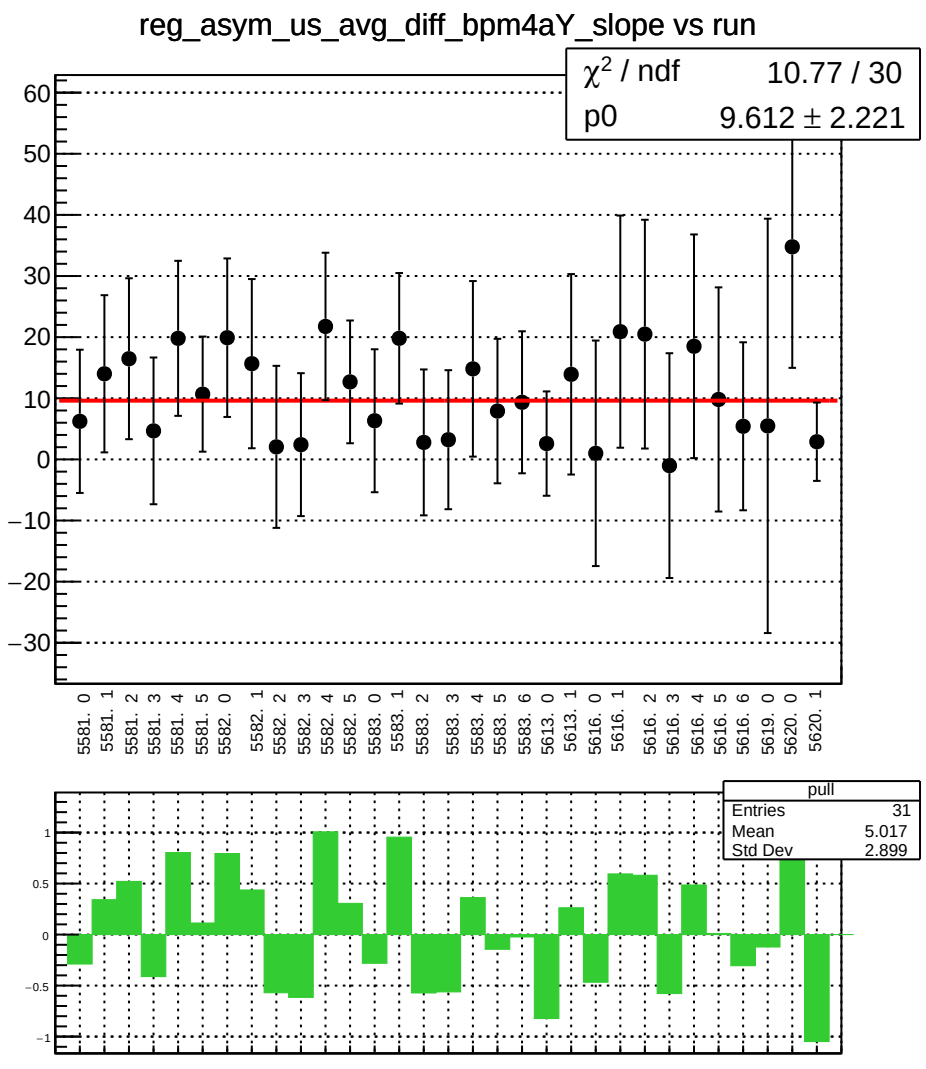

pull1D
Entries 31
Mean 0.03486
Std Dev 0.9474

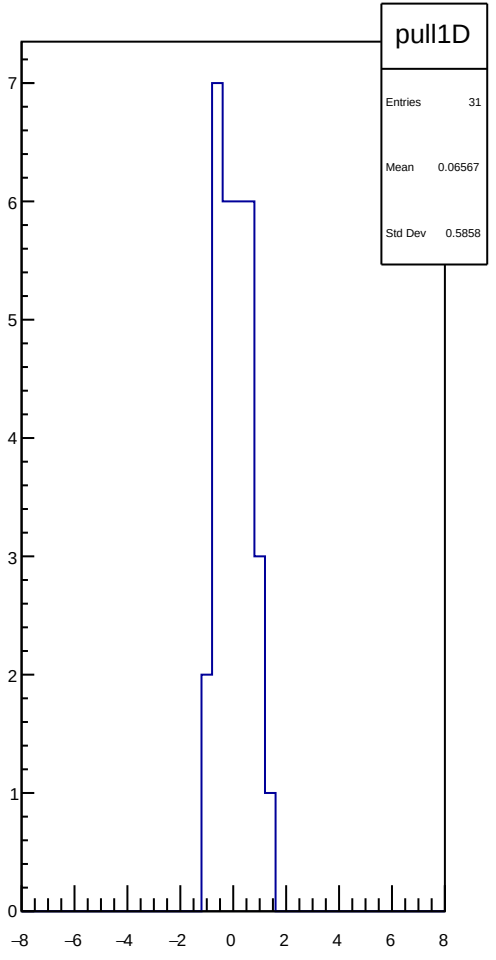

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 48.86 / 30
p0 0.6277 ± 0.3087
pull
Entries 31
Mean −0.77
Std Dev 19.99

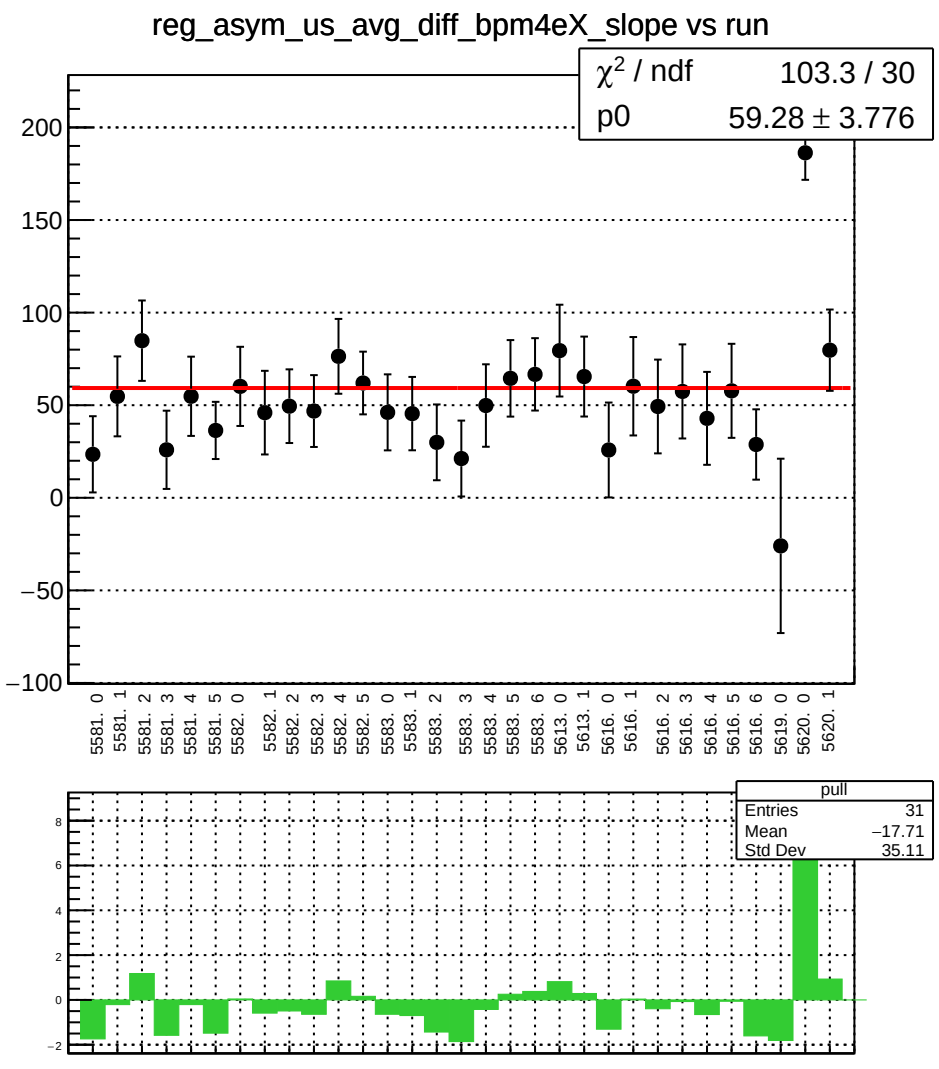

pull1D
Entries 31
Mean −0.05201
Std Dev 1.254

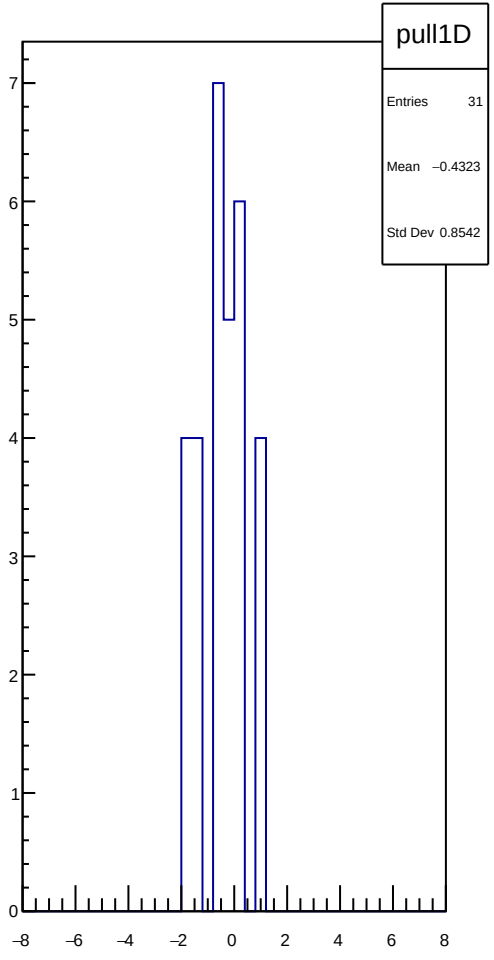

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 28.57 / 30
p0 0.01628 ± 0.0103
pull
Entries 31
Mean −122.7
Std Dev 136.6
pull1D
Entries 31
Mean 0.009727
Std Dev 0.96

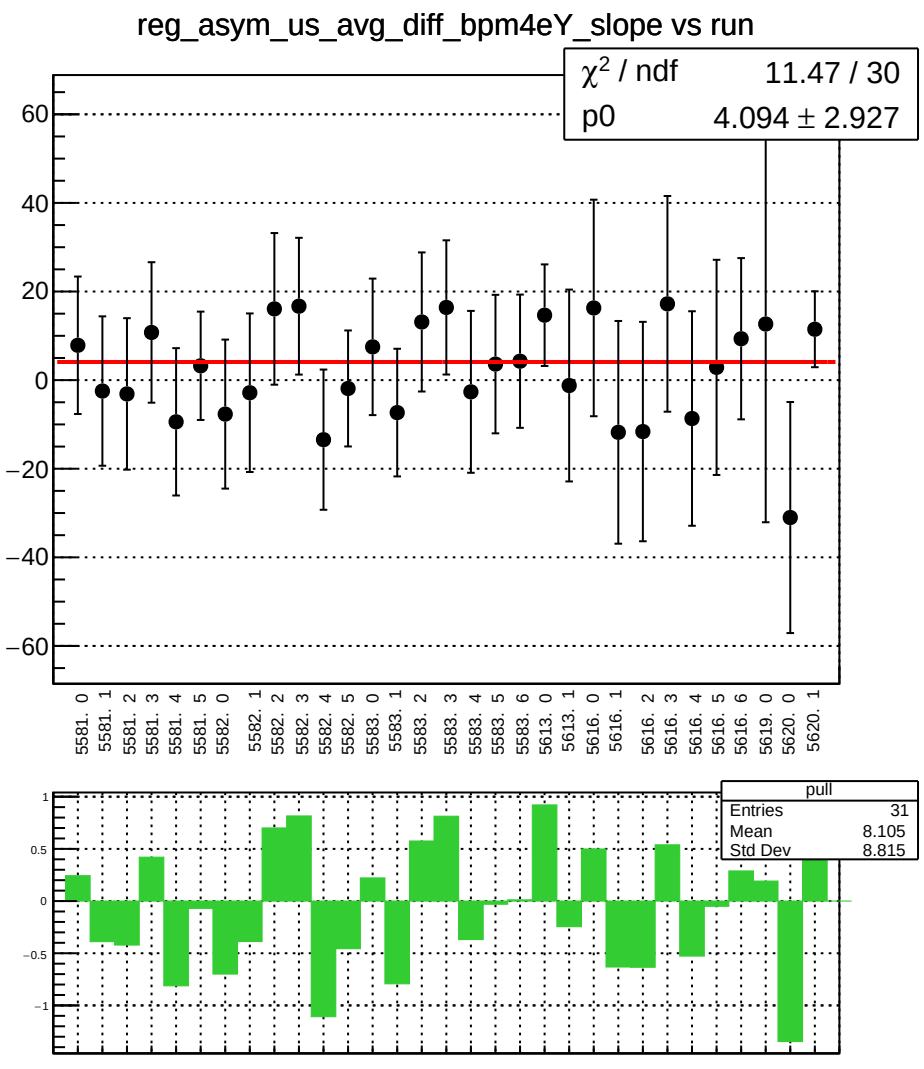

reg_asym_us_avg_diff_bpm4aX_slope vs run
χ² / ndf 108.8 / 30
p0 −42.44 ± 3.859
100
50
0
−50
−100
−150
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −22.31
Std Dev 39.48
2
0
−2
−4
−6
−8
pull1D
Entries 31
Mean 0.4556
Std Dev 0.8923
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

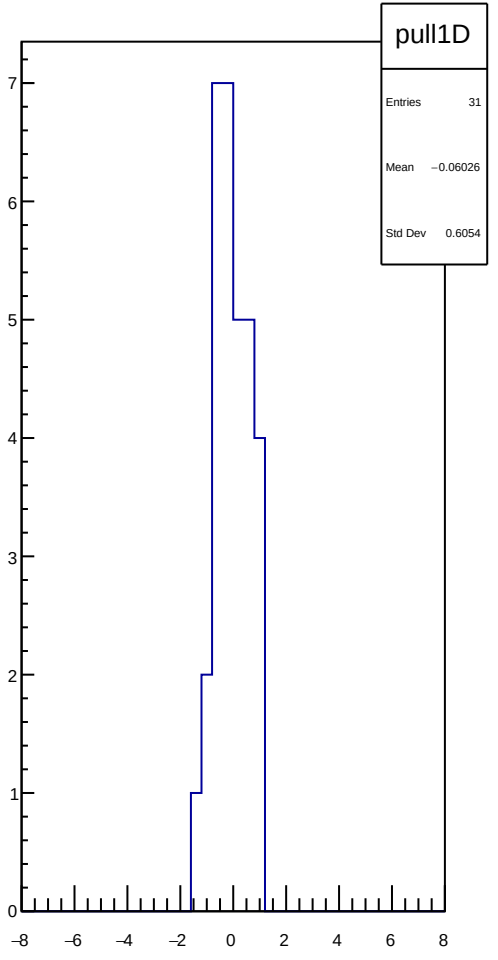

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 10.77 / 30
p0 9.612 ± 2.221
60
50
40
30
20
10
0
−10
−20
−30
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 5.017
Std Dev 2.899
1
0.5
0
−0.5
−1

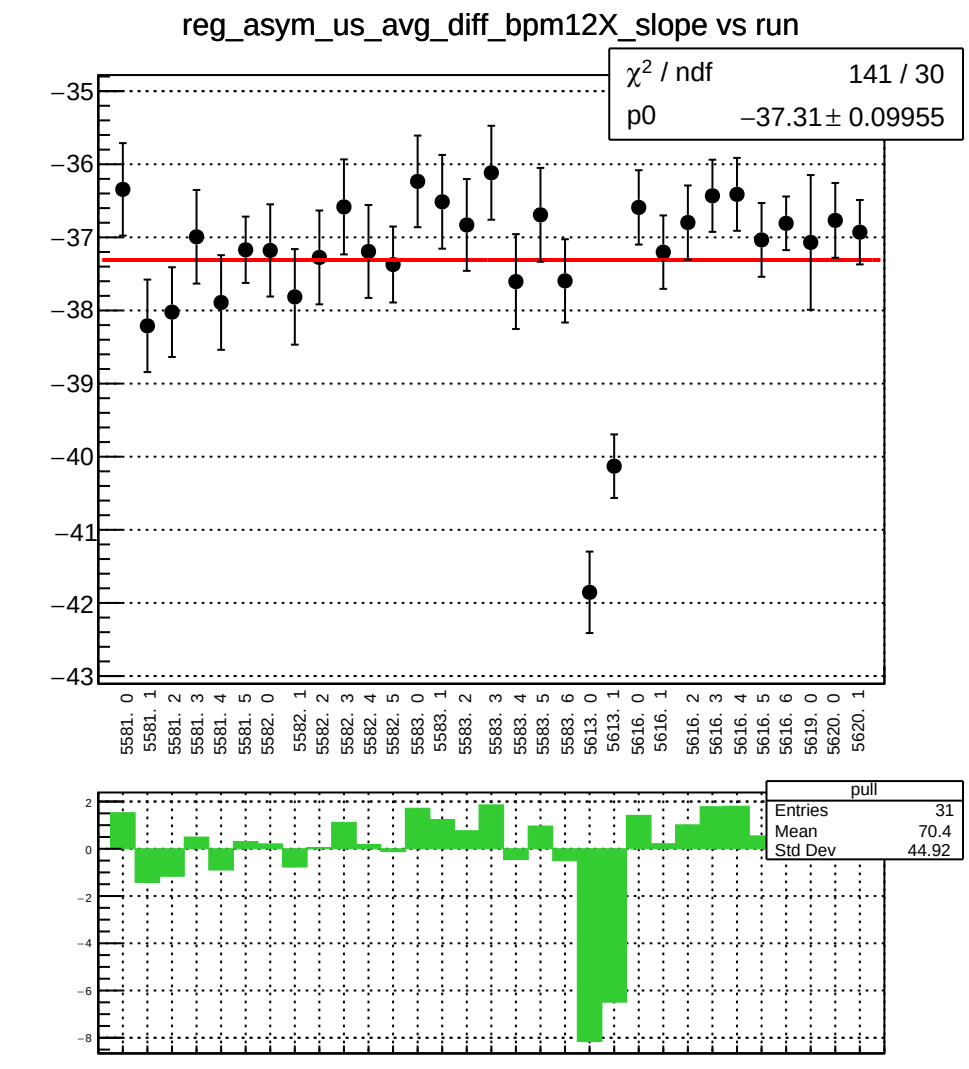

pull1D
Entries 31
Mean 0.06567
Std Dev 0.5858
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

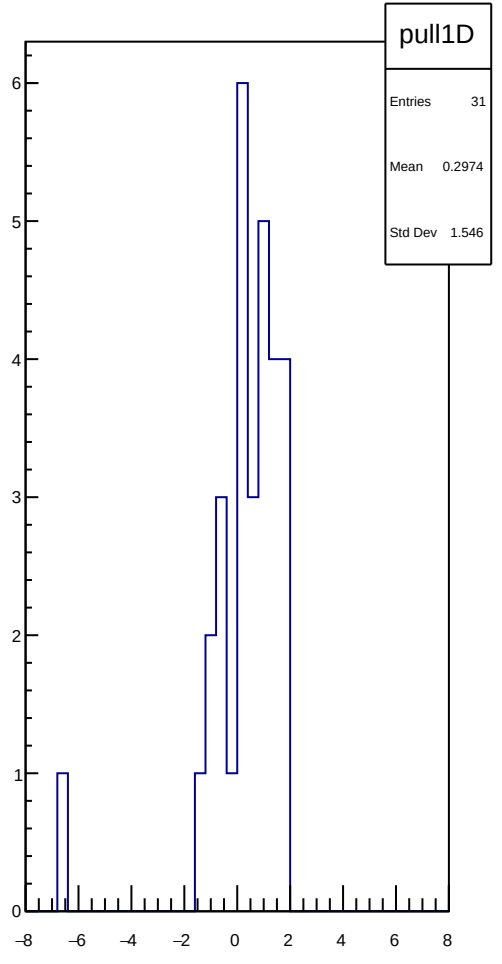

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 103.3 / 30
p0 59.28 ± 3.776
200
150
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −17.71
Std Dev 35.11
8
6
4
2
0
−2

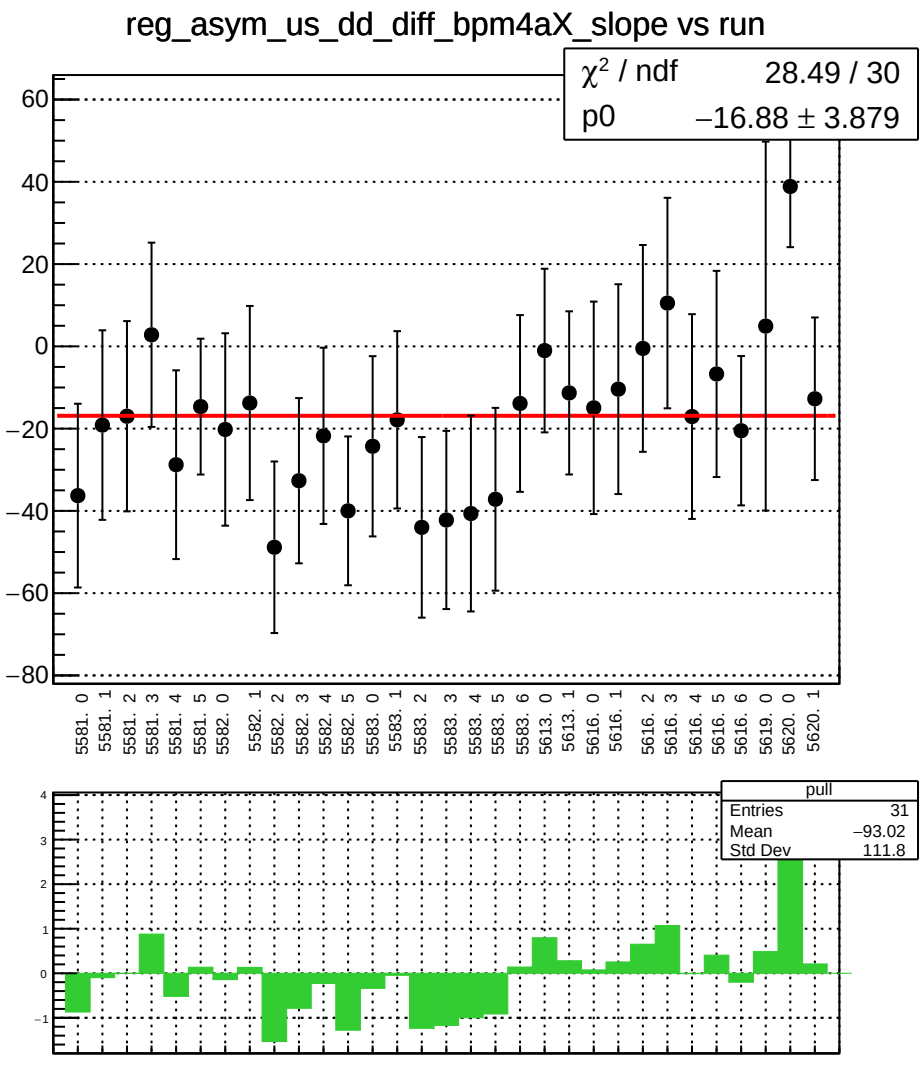

pull1D
Entries 31
Mean −0.4323
Std Dev 0.8542
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

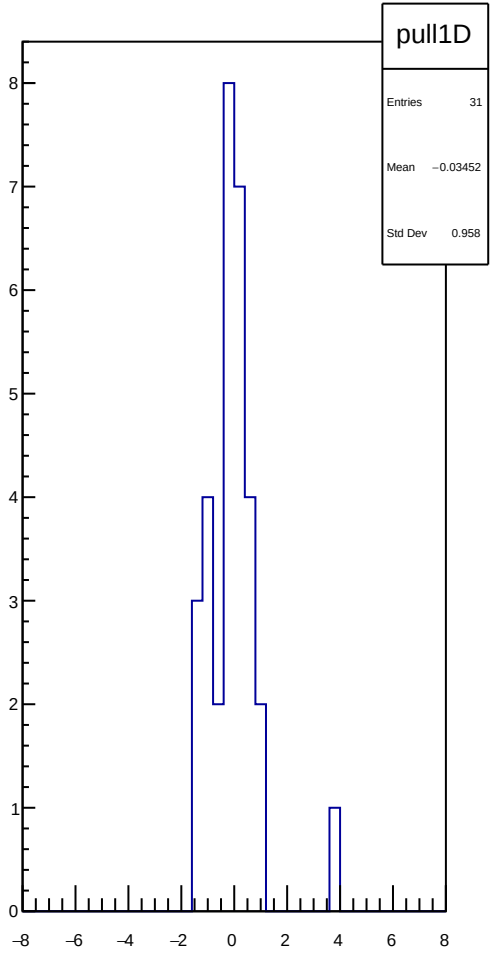

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 11.47 / 30
p0 4.094 ± 2.927
60
40
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 8.105
Std Dev 8.815
1
0.5
0
−0.5
−1

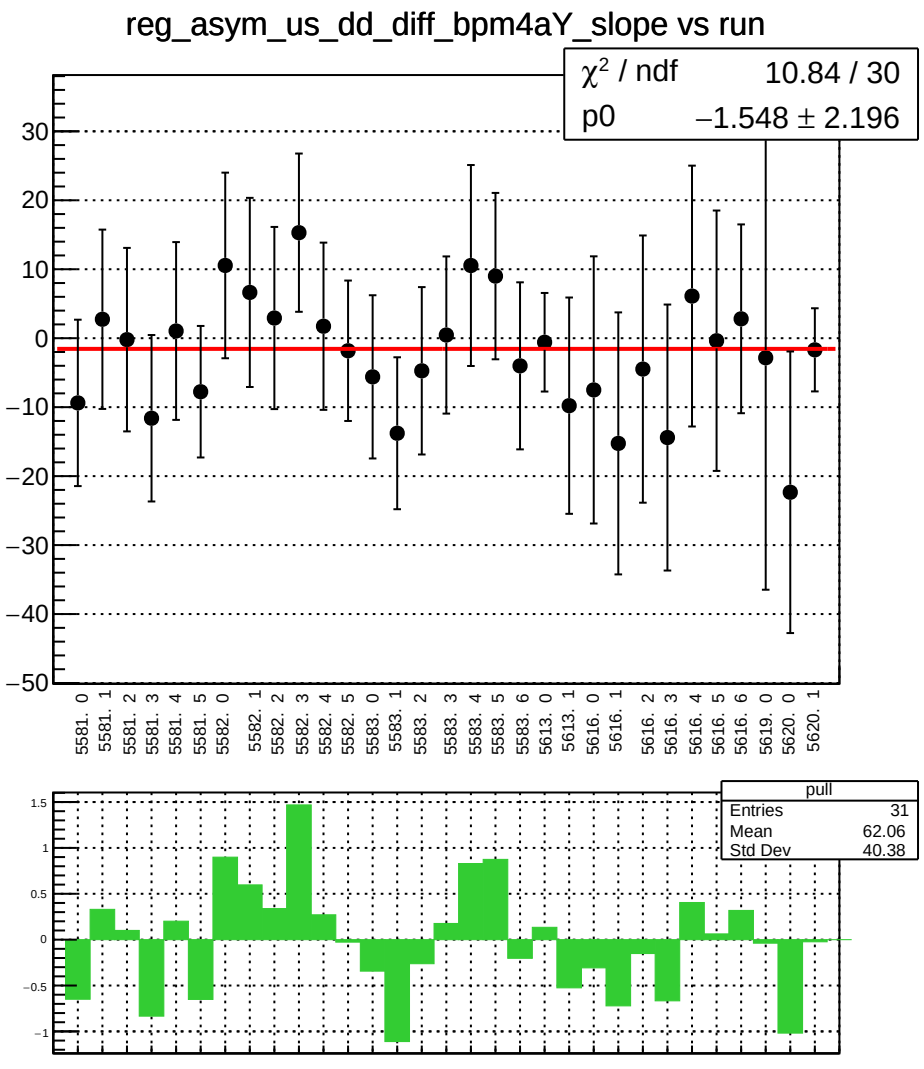

pull1D
Entries 31
Mean −0.06026
Std Dev 0.6054
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

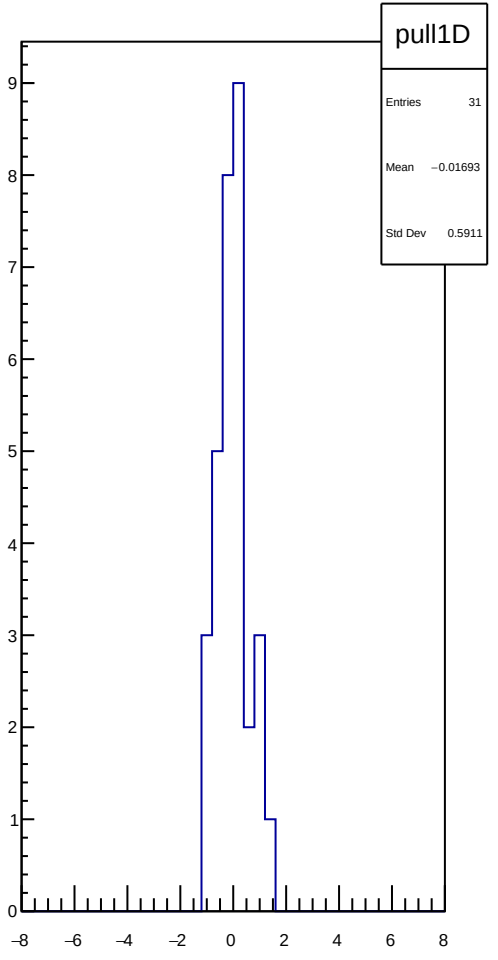

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 141 / 30
p0 −37.31 ± 0.09955
pull
Entries 31
Mean 70.4
Std Dev 44.92

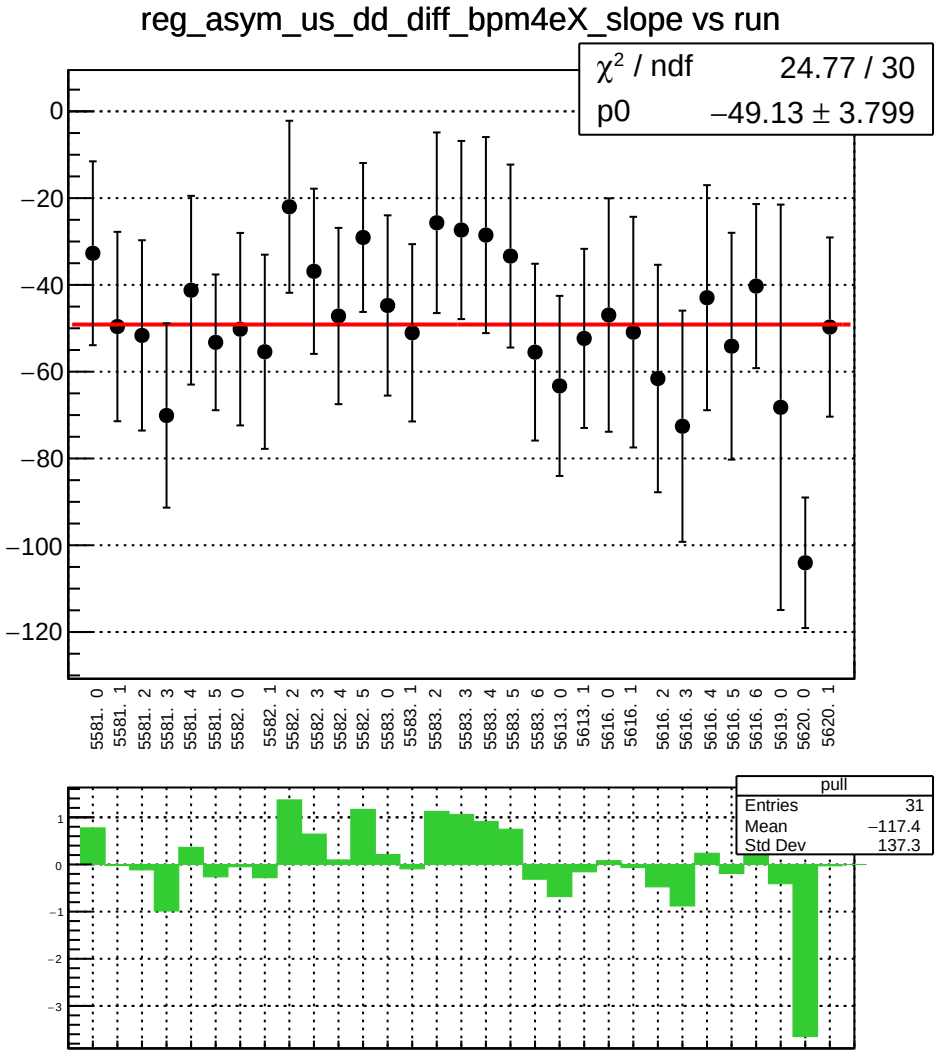

pull1D
Entries 31
Mean 0.2974
Std Dev 1.546

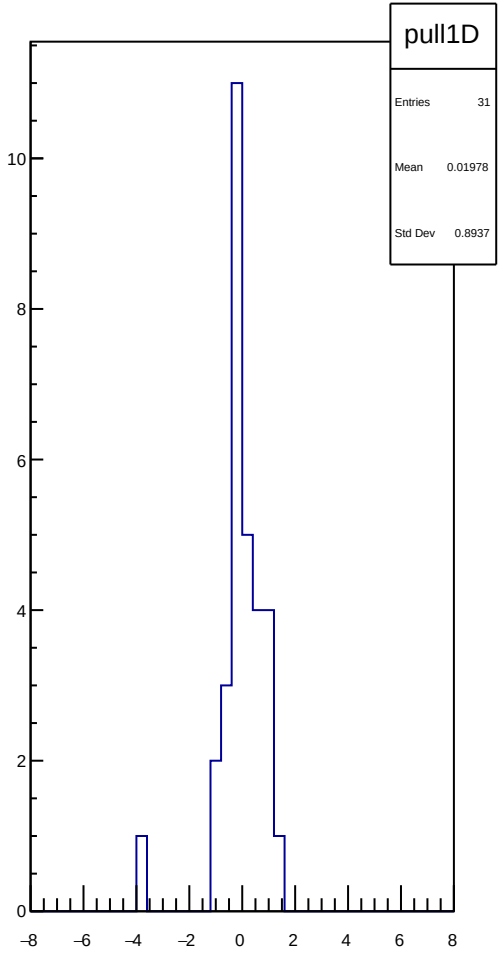

reg_asym_us_dd_diff_bpm4aX_slope vs run
χ² / ndf 28.49 / 30
p0 −16.88 ± 3.879
60
40
20
0
−20
−40
−60
−80
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −93.02
Std Dev 111.8
4
3
2
1
0
−1

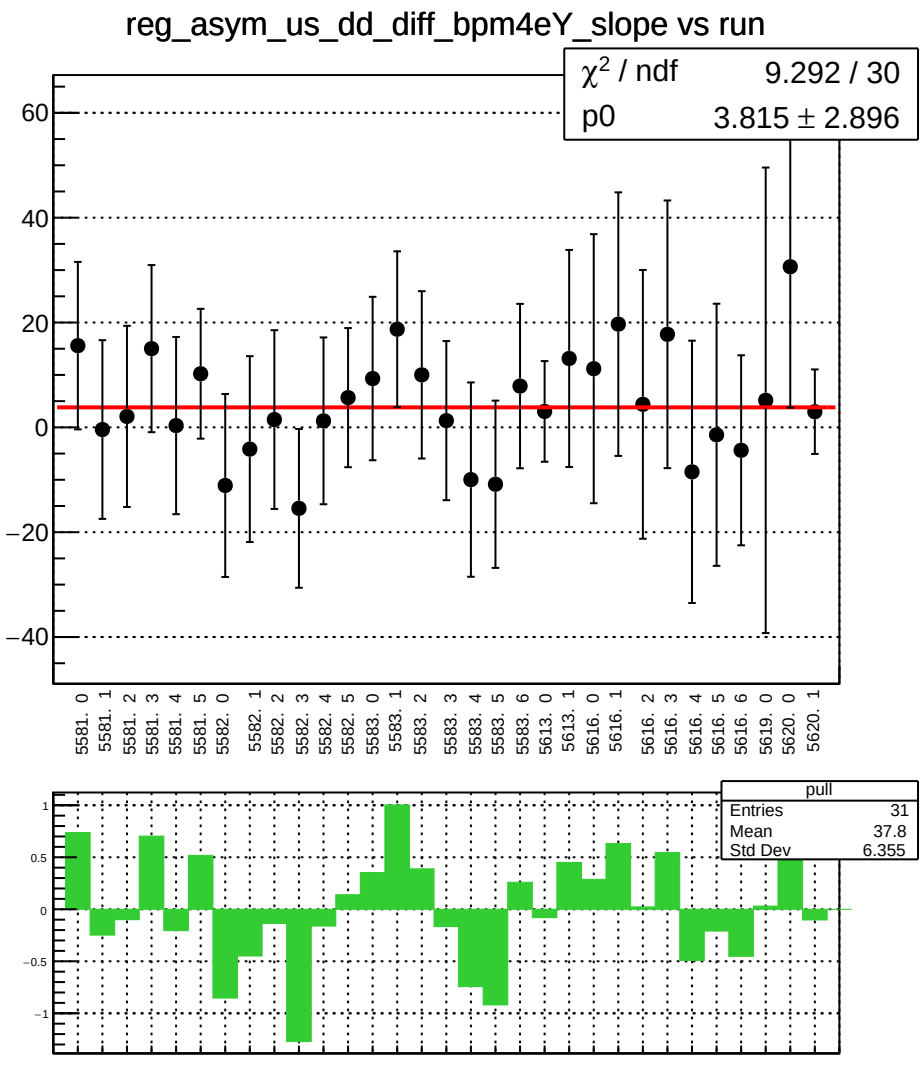

pull1D
Entries 31
Mean −0.03452
Std Dev 0.958
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

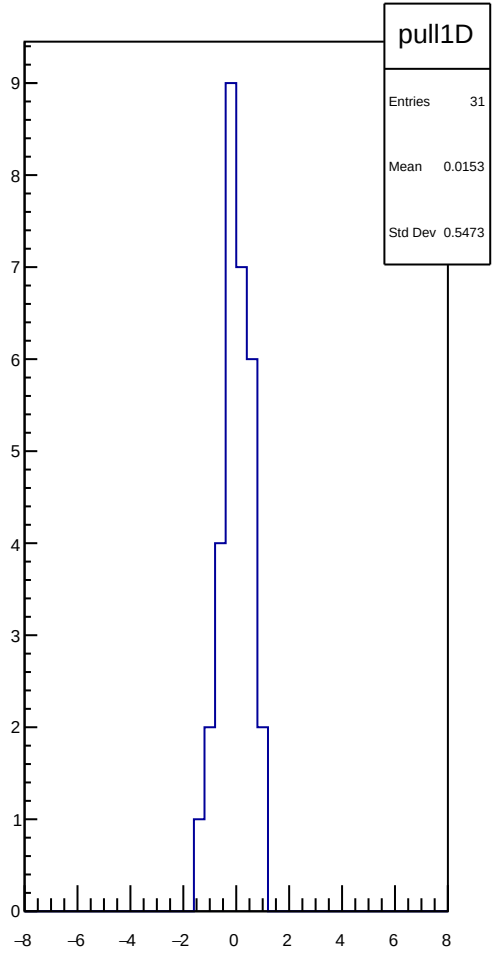

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.84 / 30
p0 −1.548 ± 2.196
30
20
10
0
−10
−20
−30
−40
−50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 62.06
Std Dev 40.38
1.5
1
0.5
0
−0.5
−1

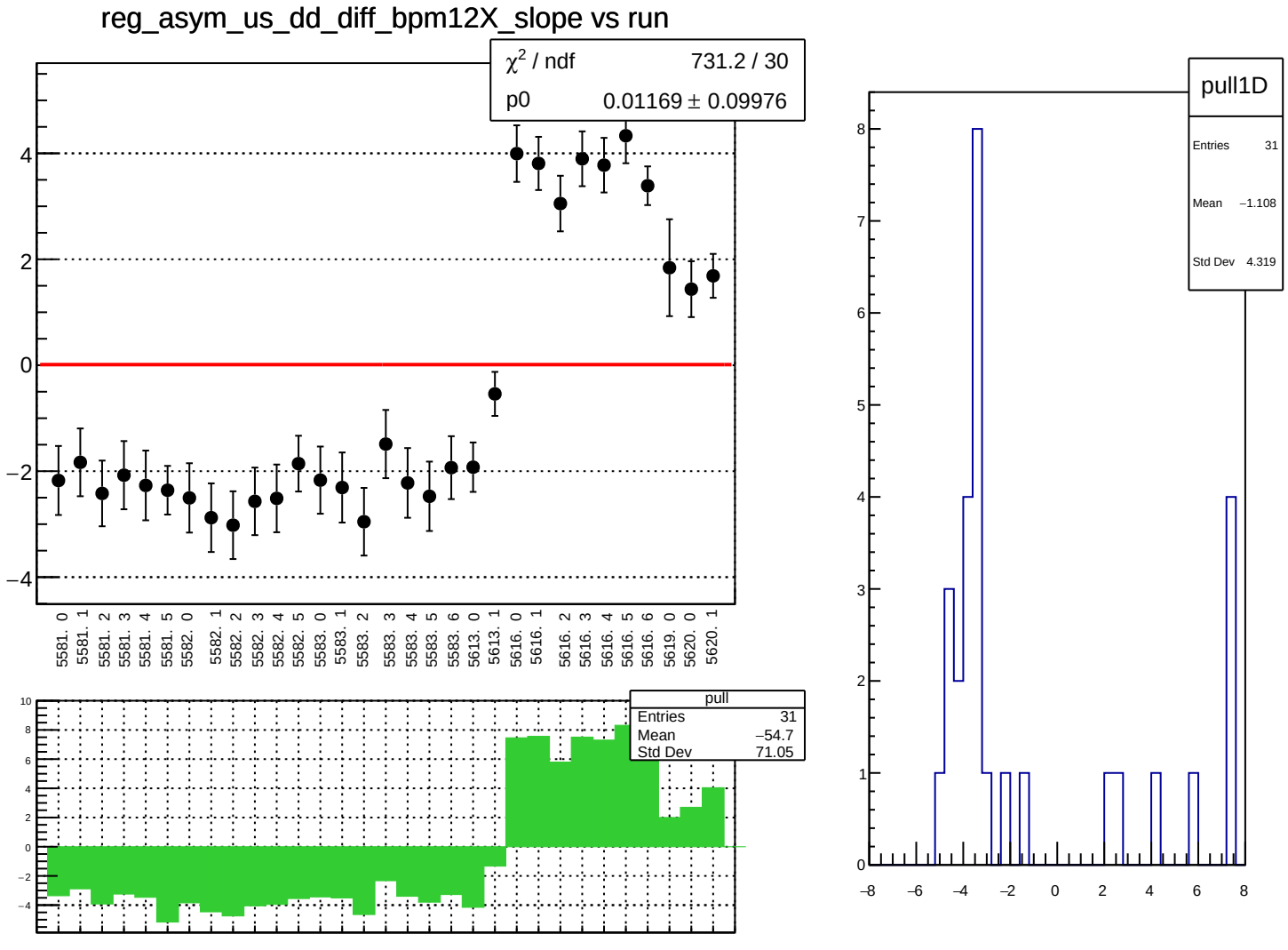

pull1D
Entries 31
Mean −0.01693
Std Dev 0.5911
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

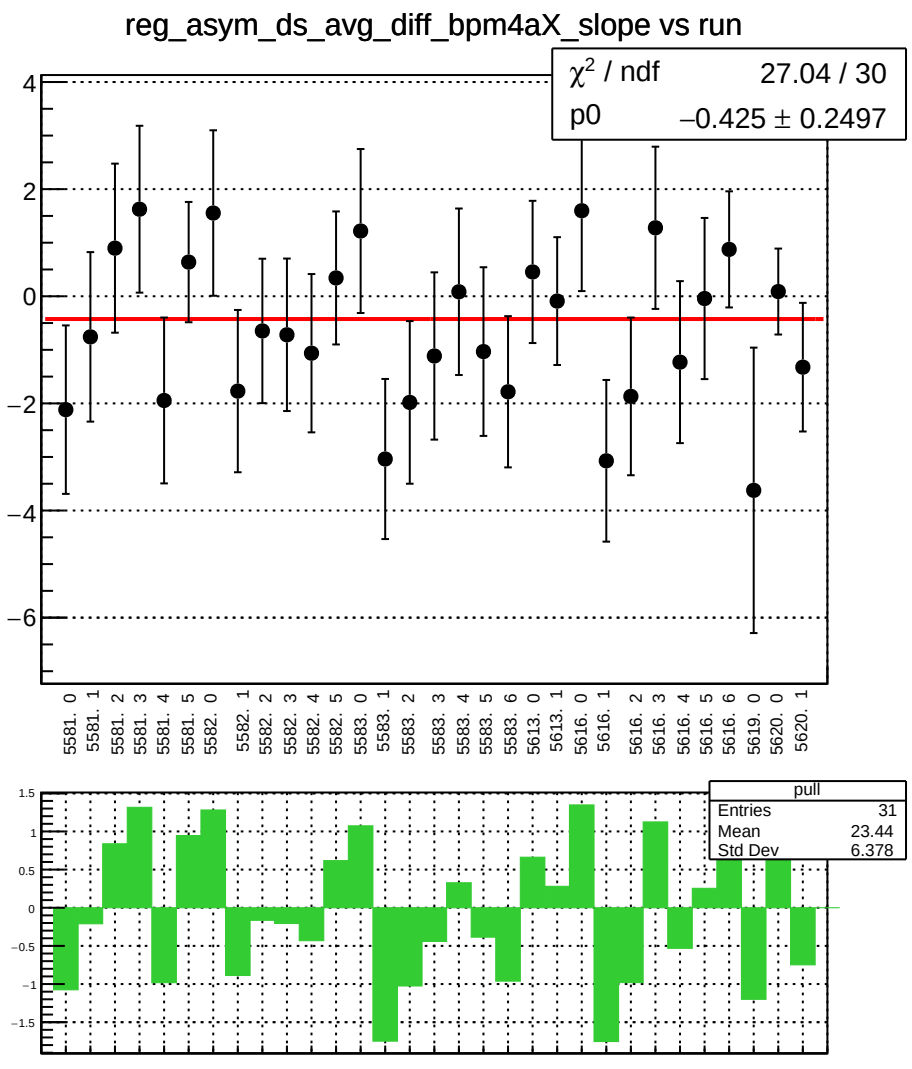

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 24.77 / 30
p0 −49.13 ± 3.799
0
−20
−40
−60
−80
−100
−120
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −117.4
Std Dev 137.3
1
0
−1
−2
−3

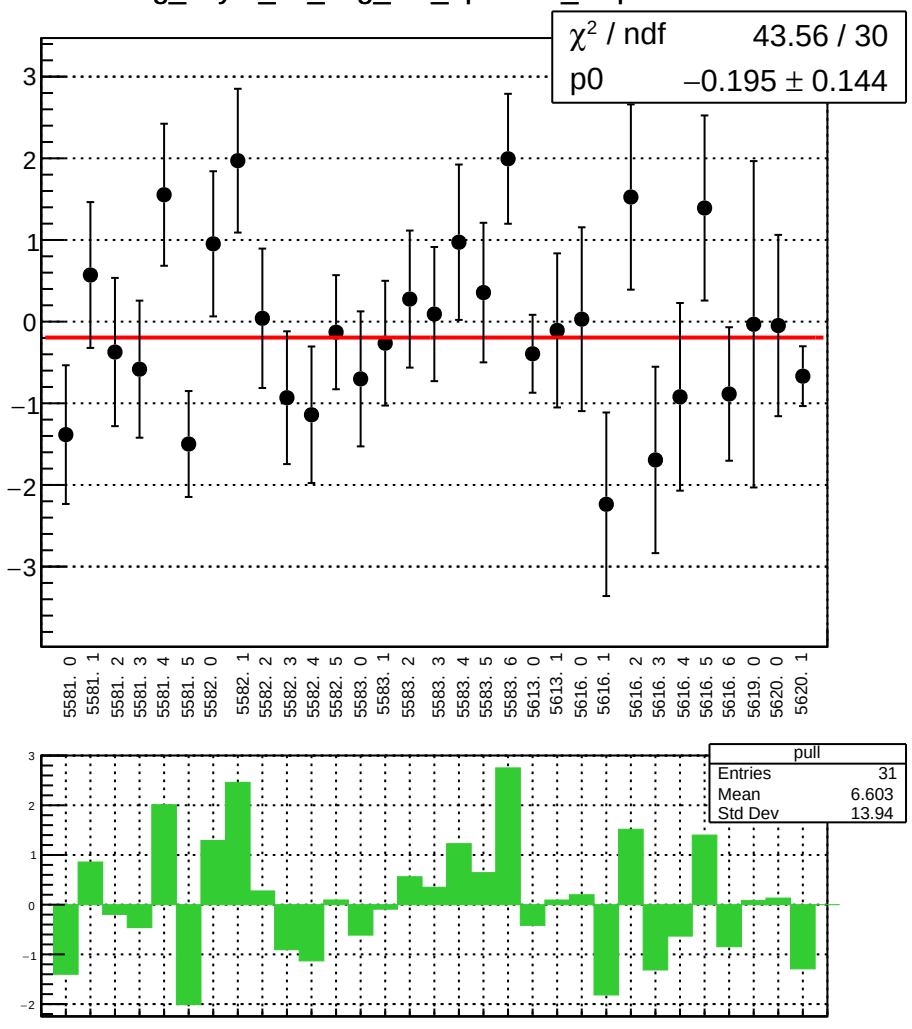

pull1D
Entries 31
Mean 0.01978
Std Dev 0.8937
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

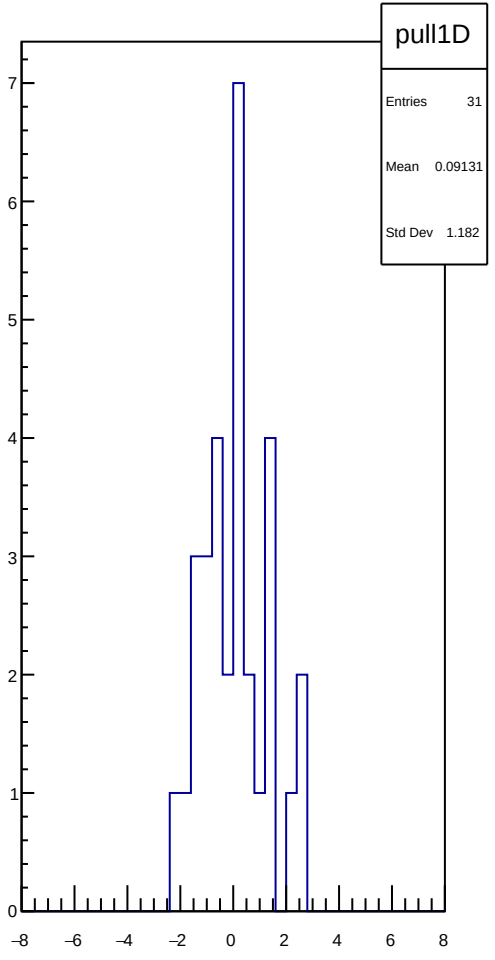

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.292 / 30
p0 3.815 ± 2.896
60
40
20
0
−20
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 37.8
Std Dev 6.355
1
0.5
0
−0.5
−1

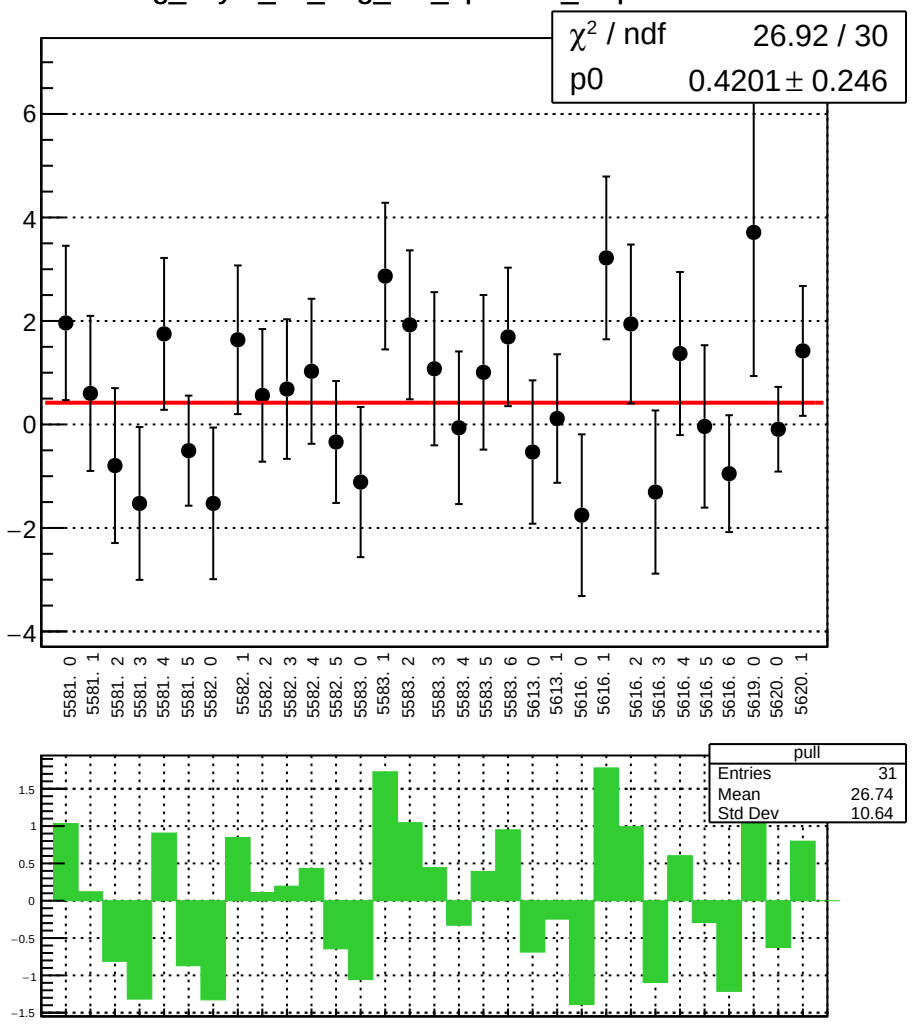

pull1D
Entries 31
Mean 0.0153
Std Dev 0.5473
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

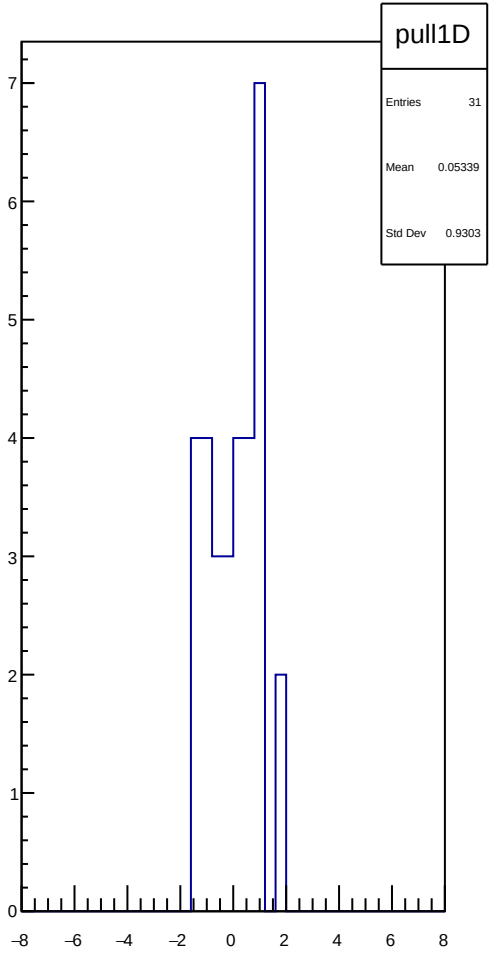

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 731.2 / 30
p0 0.01169 ± 0.09976
4
2
0
−2
−4
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −54.7
Std Dev 71.05
10
8
6
4
2
0
−2
−4
pull1D
Entries 31
Mean −1.108
Std Dev 4.319
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

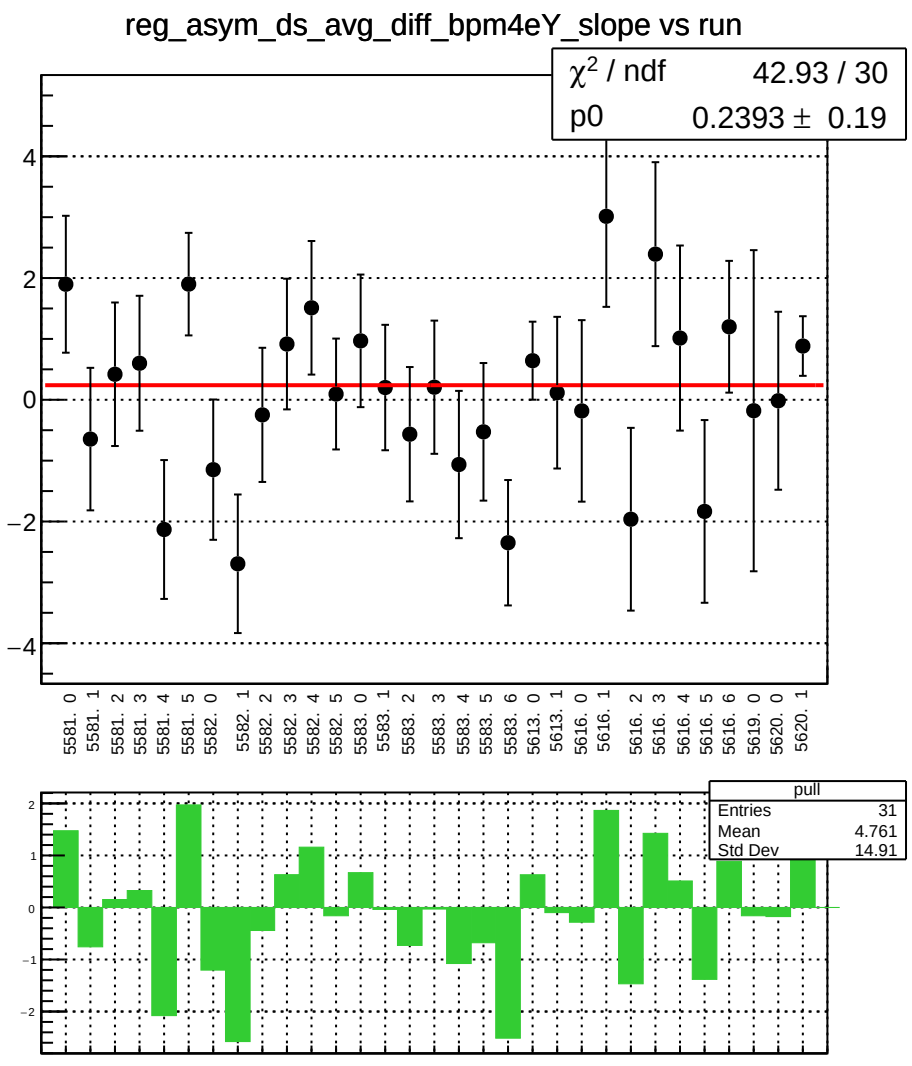

reg_asym_ds_avg_diff_bpm4aX_slope vs run
χ² / ndf 27.04 / 30
p0 −0.425 ± 0.2497
4
2
0
−2
−4
−6
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 23.44
Std Dev 6.378
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean −0.05897
Std Dev 0.932
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

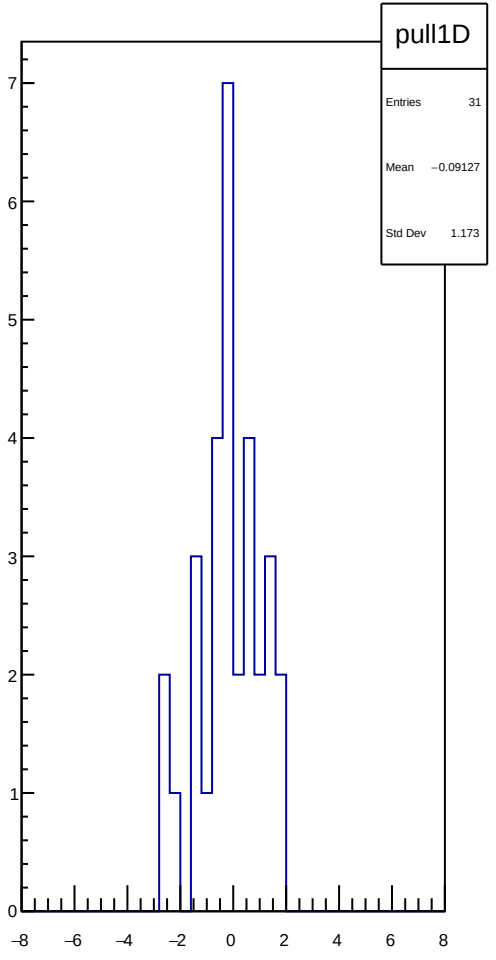

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 43.56 / 30
p0 −0.195 ± 0.144
pull
Entries 31
Mean 6.603
Std Dev 13.94

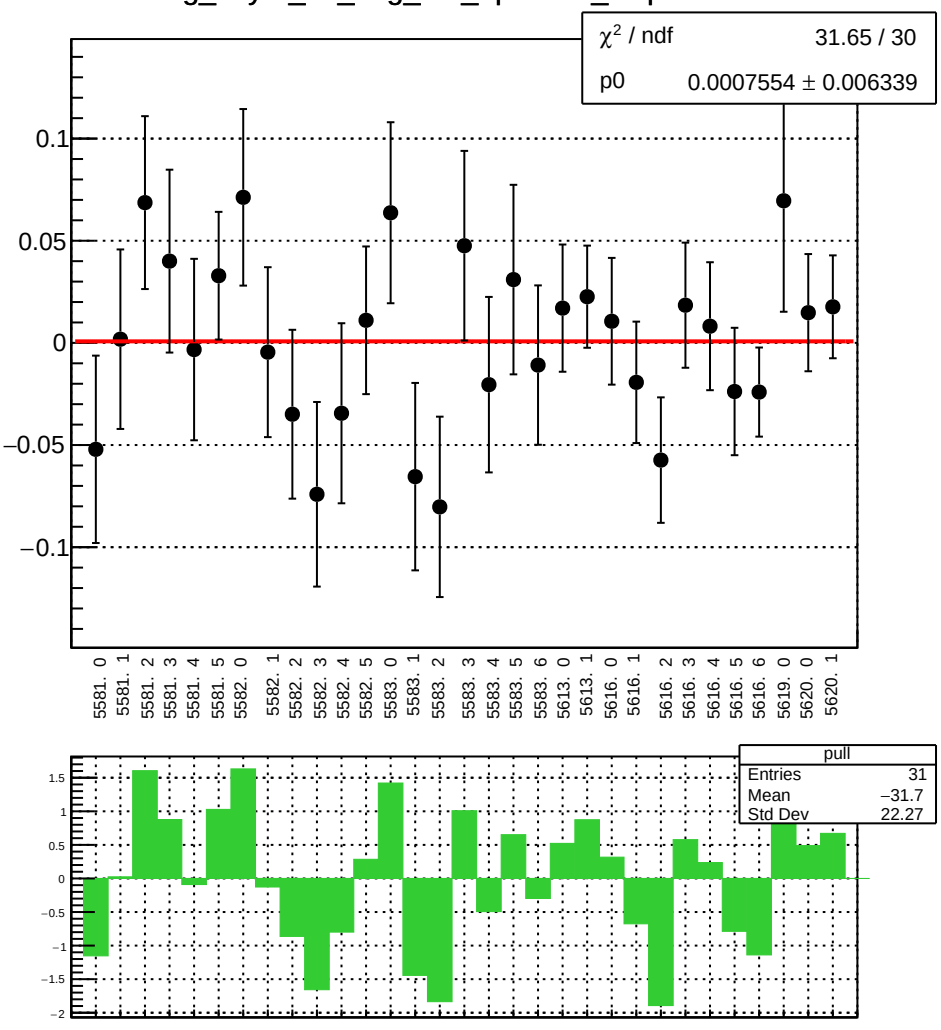

pull1D
Entries 31
Mean 0.09131
Std Dev 1.182

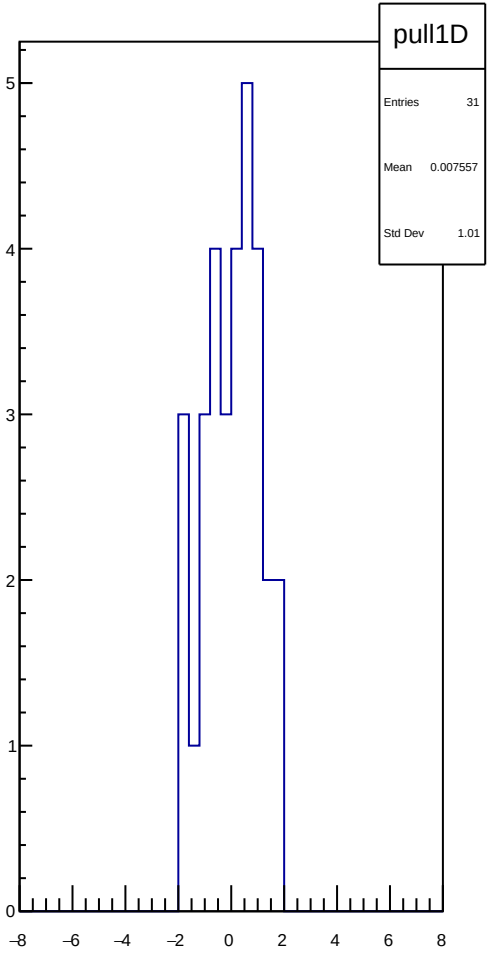

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 26.92 / 30
p0 0.4201 ± 0.246
pull
Entries 31
Mean 26.74
Std Dev 10.64

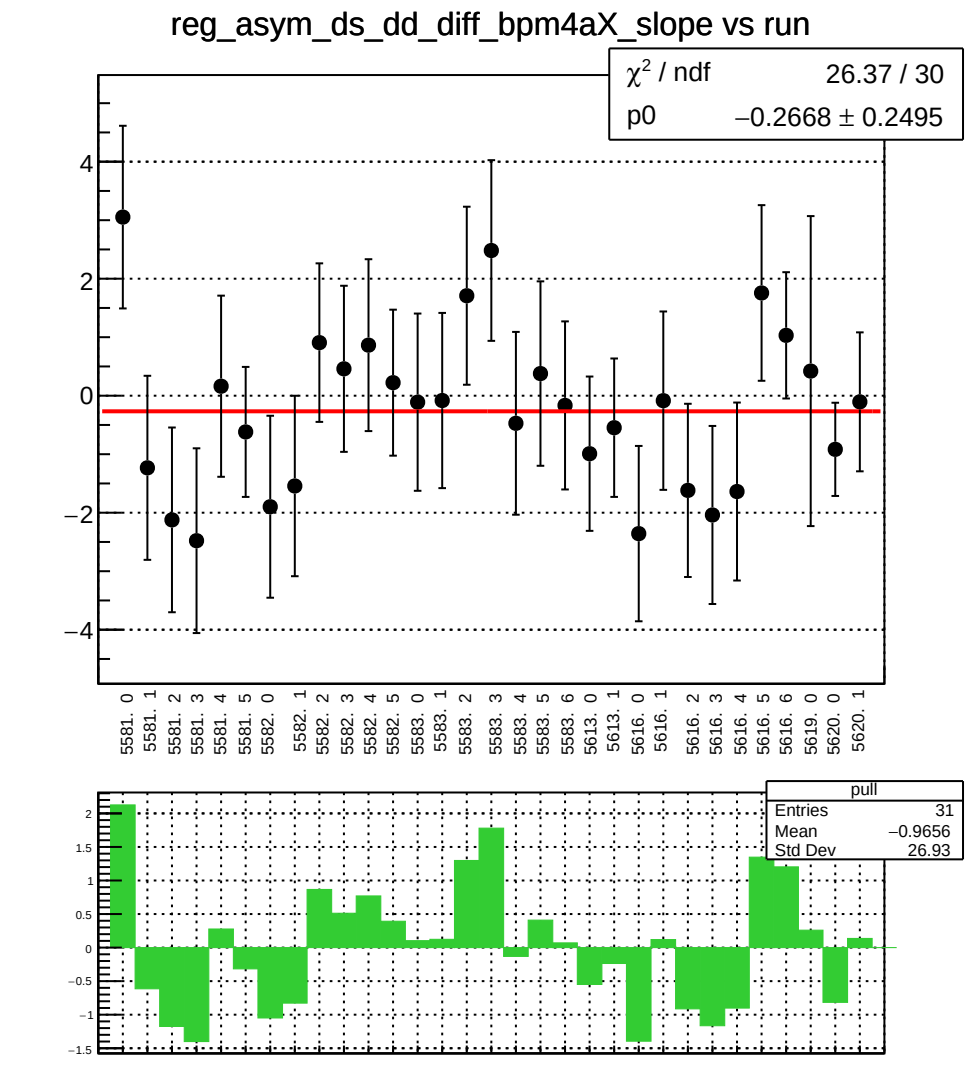

pull1D
Entries 31
Mean 0.05339
Std Dev 0.9303

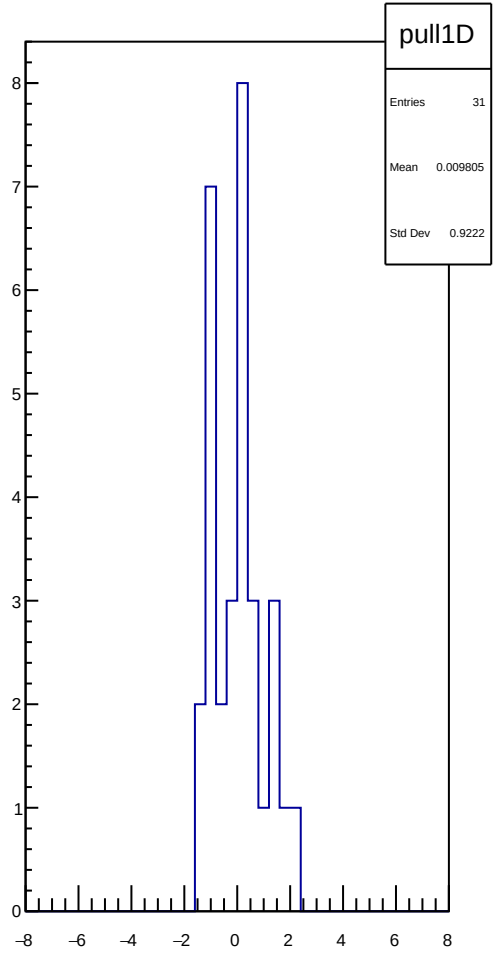

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 42.93 / 30
p0 0.2393 ± 0.19
4
2
0
−2
−4
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 4.761
Std Dev 14.91
2
1
0
−1
−2

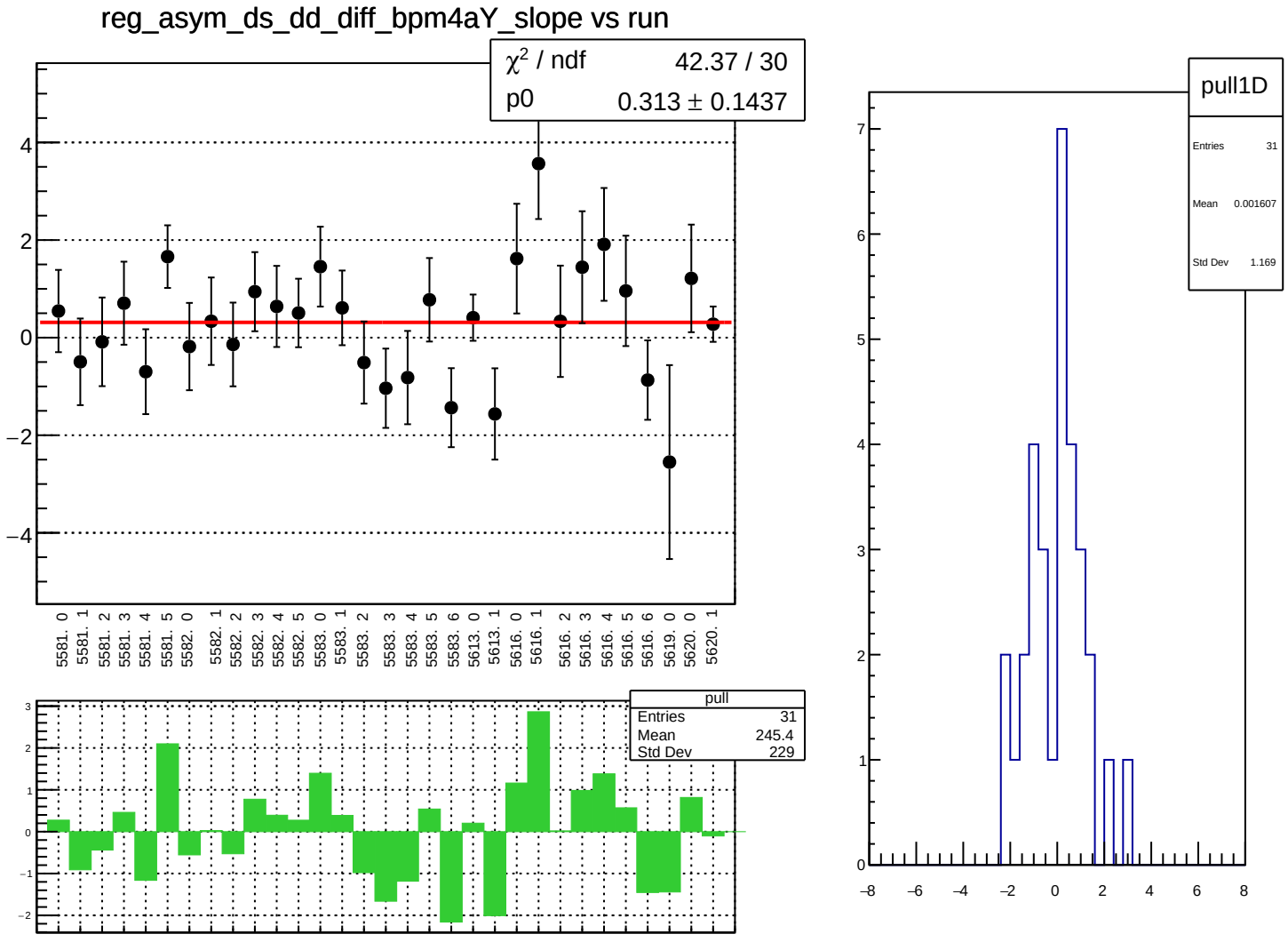

pull1D
Entries 31
Mean −0.09127
Std Dev 1.173
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

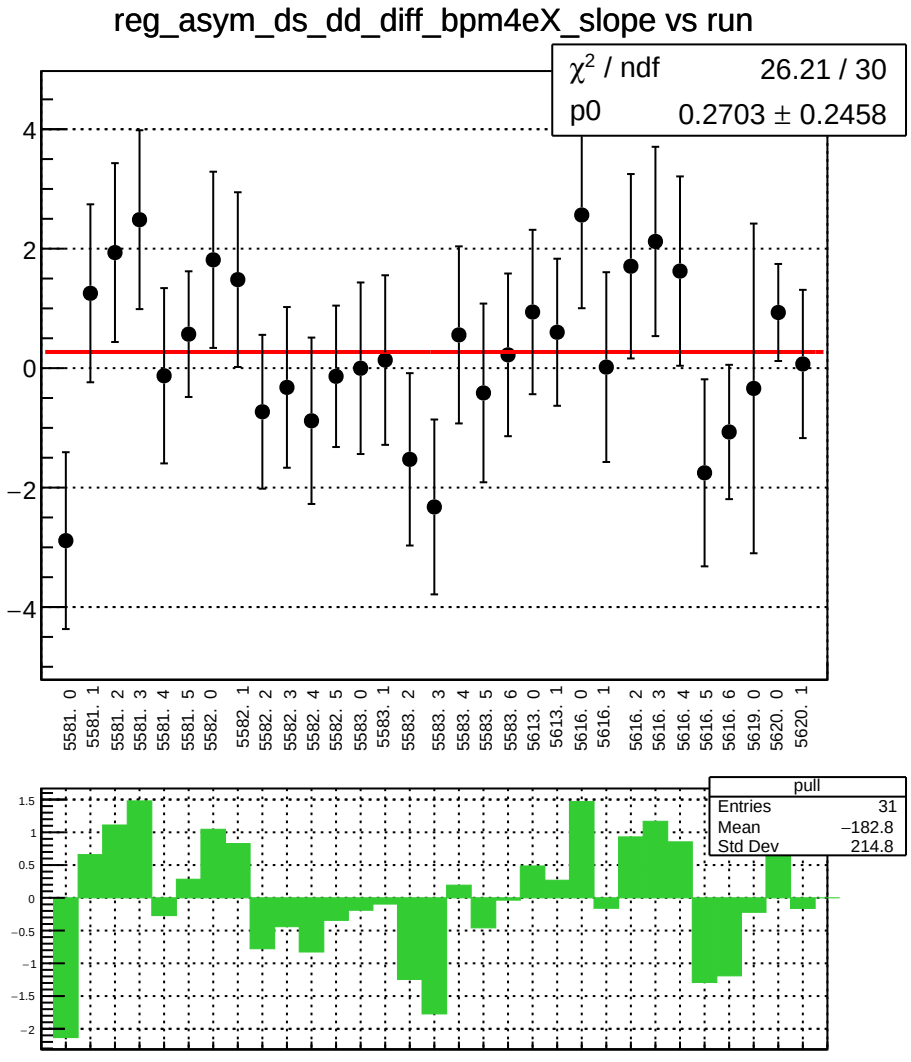

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 31.65 / 30
p0 0.0007554 ± 0.006339
0.1
0.05
0
−0.05
−0.1
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −31.7
Std Dev 22.27
1.5
1
0.5
0
−0.5
−1
−1.5
−2

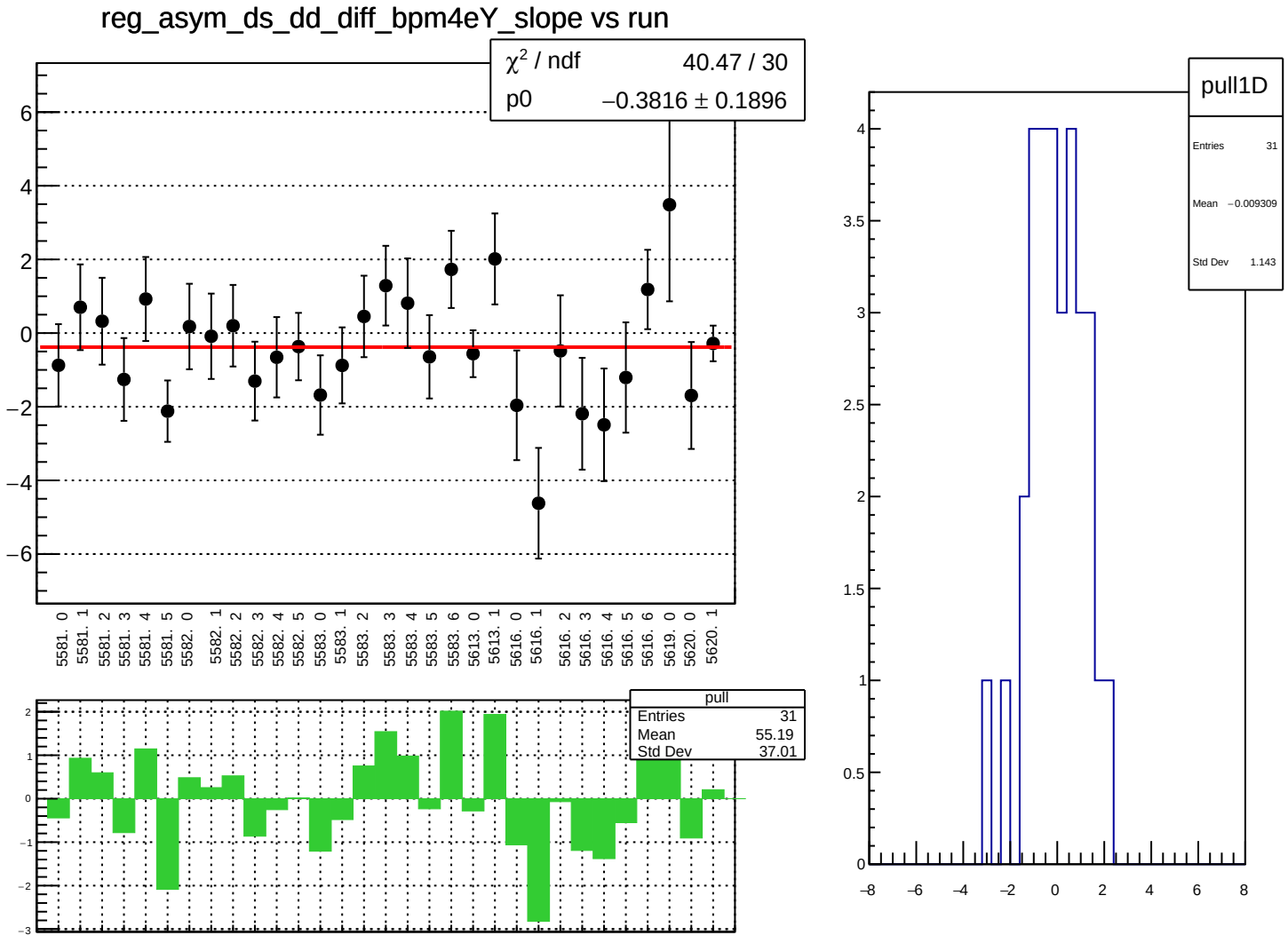

pull1D
Entries 31
Mean 0.007557
Std Dev 1.01
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

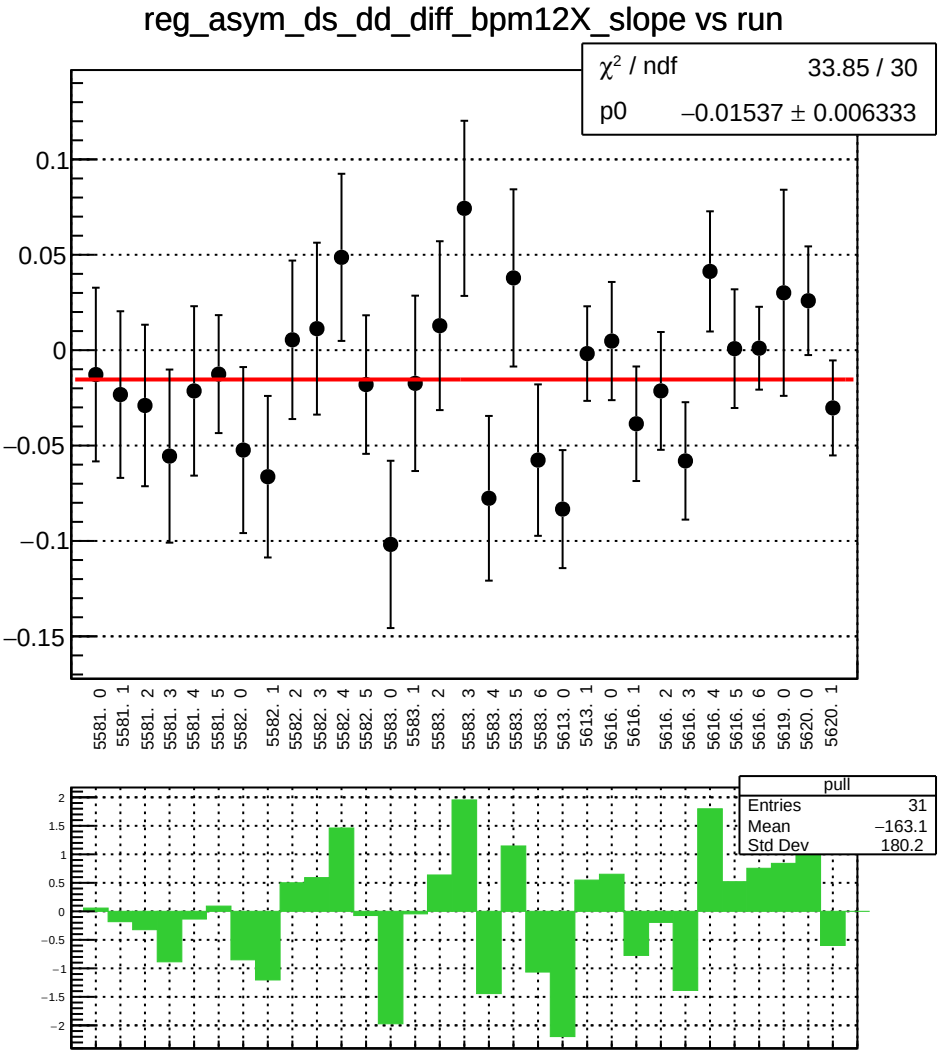

reg_asym_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 26.37 / 30
p0 −0.2668 ± 0.2495
4
2
0
−2
−4
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −0.9656
Std Dev 26.93
2
1.5
1
0.5
0
−0.5
−1
−1.5

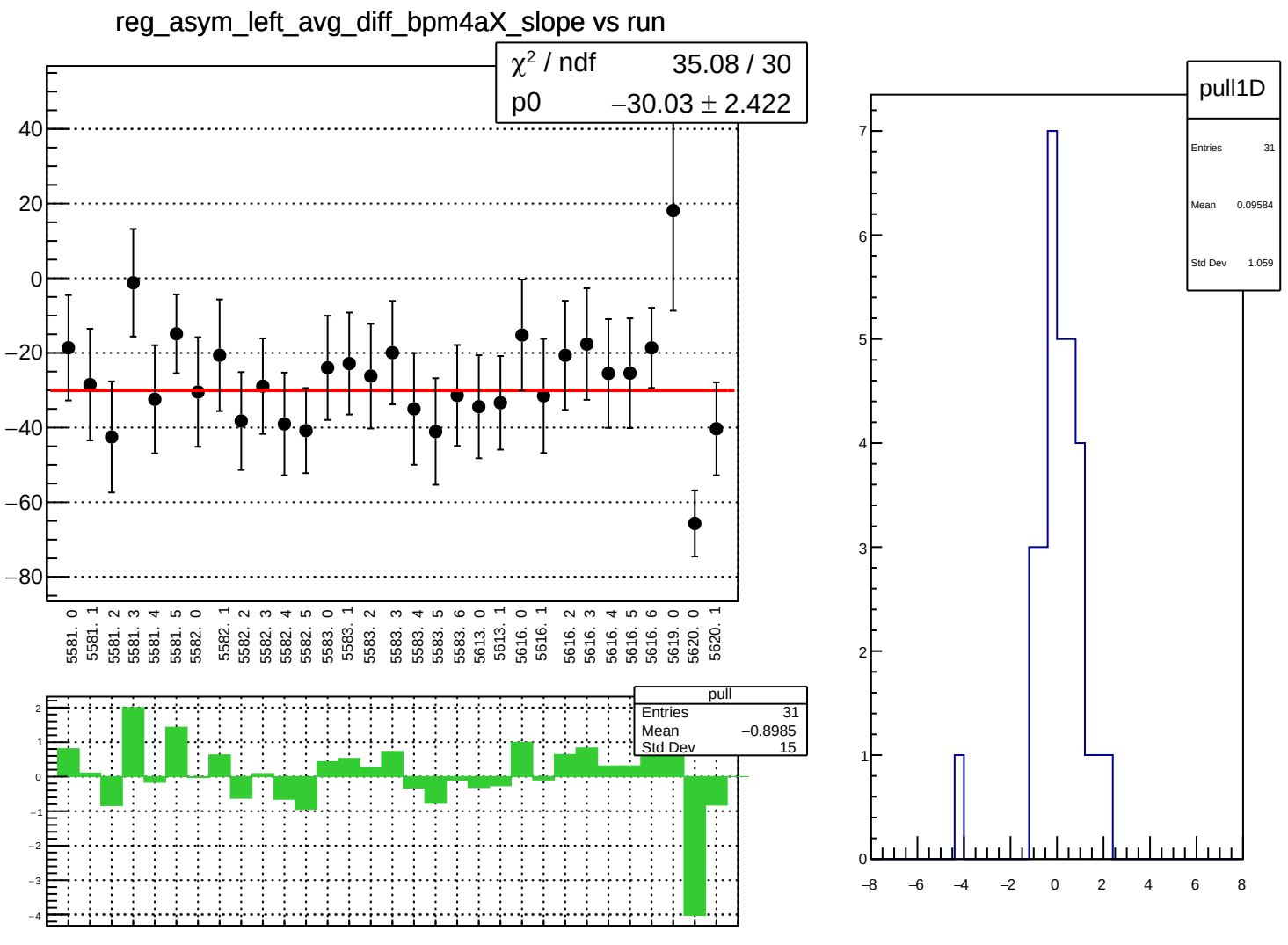

pull1D
Entries 31
Mean 0.009805
Std Dev 0.9222
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

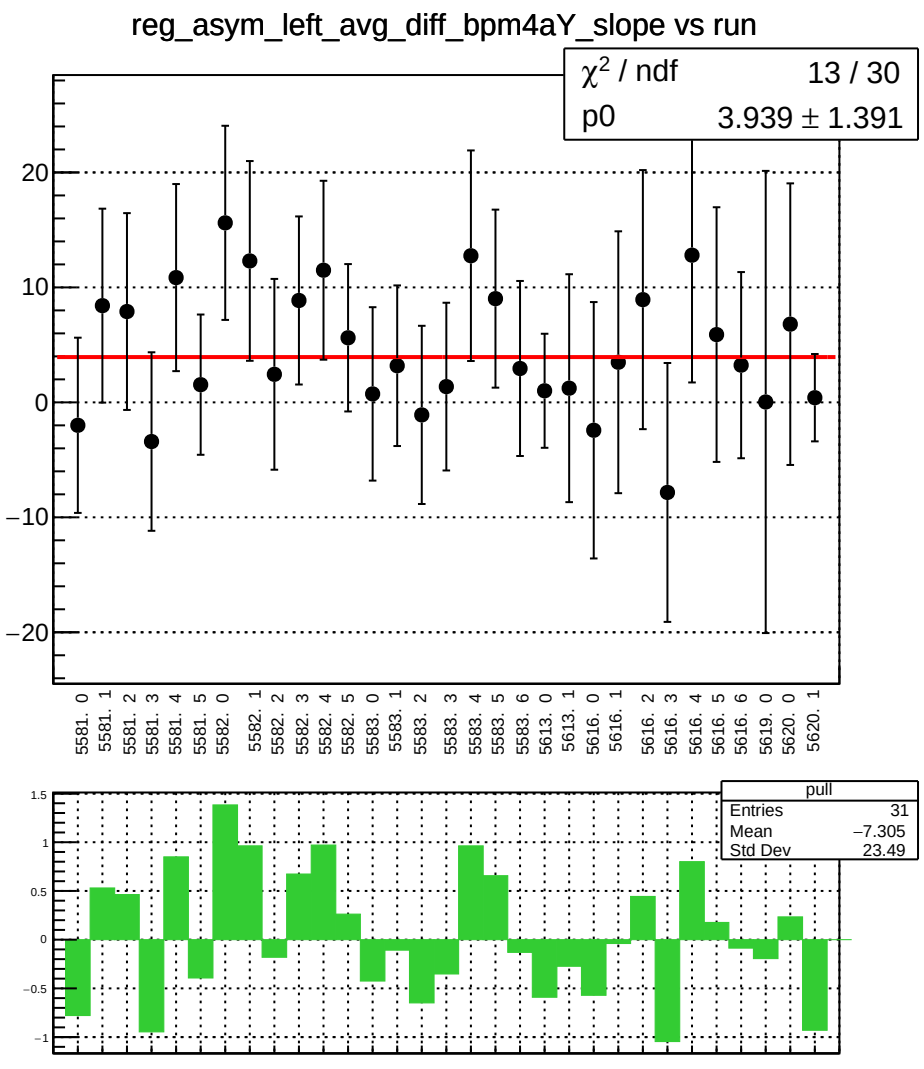

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 42.37 / 30
p0 0.313 ± 0.1437
pull
Entries 31
Mean 245.4
Std Dev 229
pull1D
Entries 31
Mean 0.001607
Std Dev 1.169

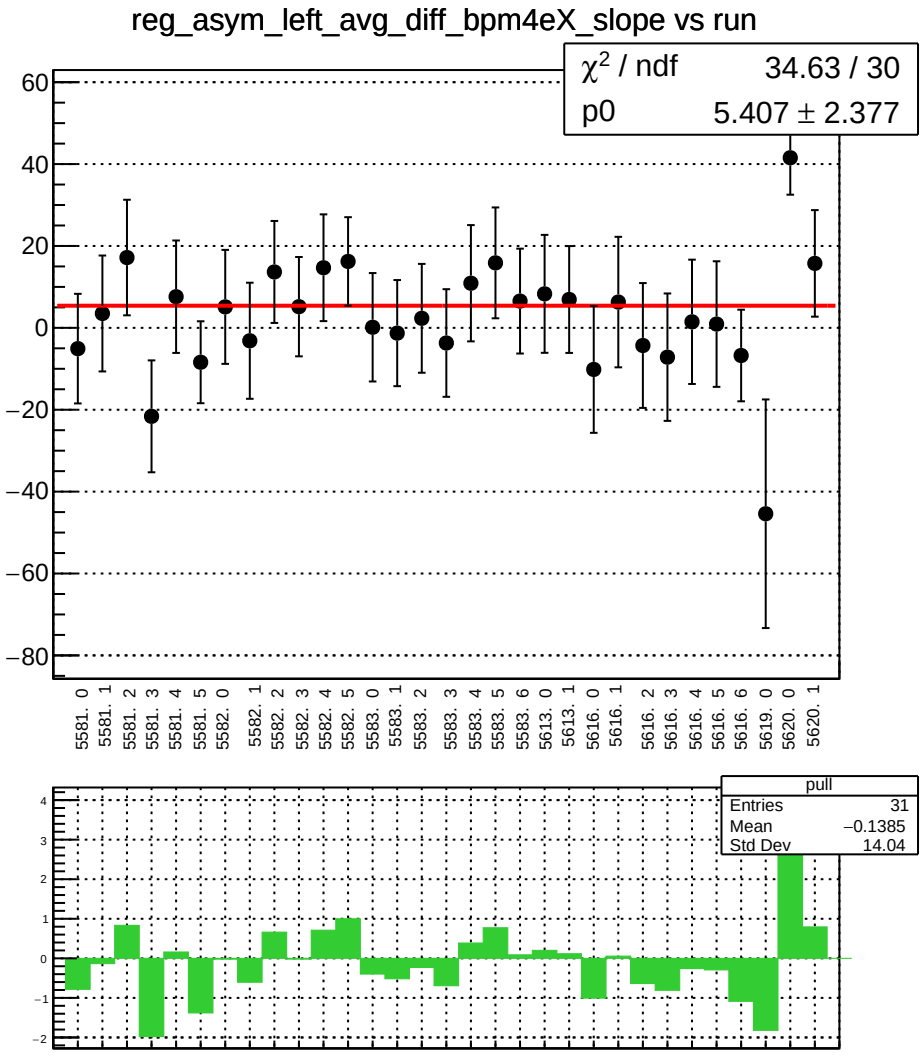

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 26.21 / 30
p0 0.2703 ± 0.2458
pull
Entries 31
Mean −182.8
Std Dev 214.8
pull1D
Entries 31
Mean −0.0007346
Std Dev 0.9195

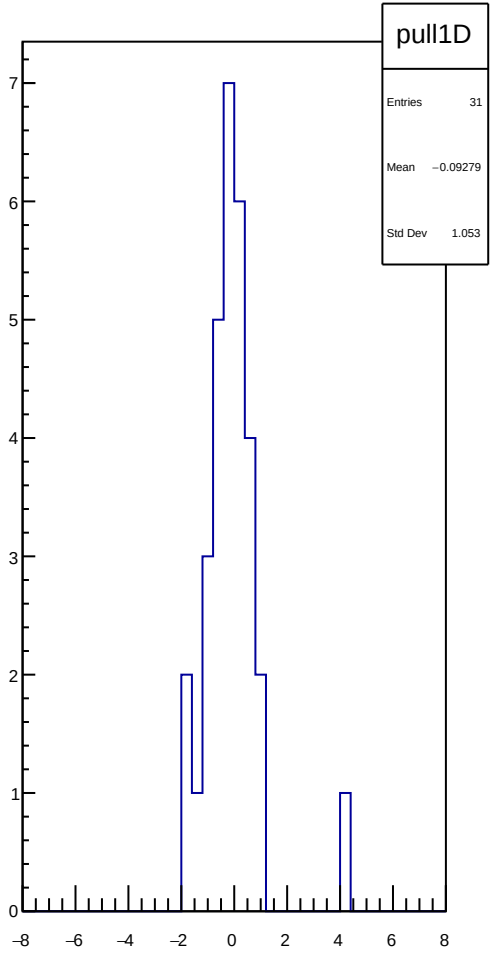

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 40.47 / 30
p0 −0.3816 ± 0.1896
pull
Entries 31
Mean 55.19
Std Dev 37.01
pull1D
Entries 31
Mean −0.009309
Std Dev 1.143

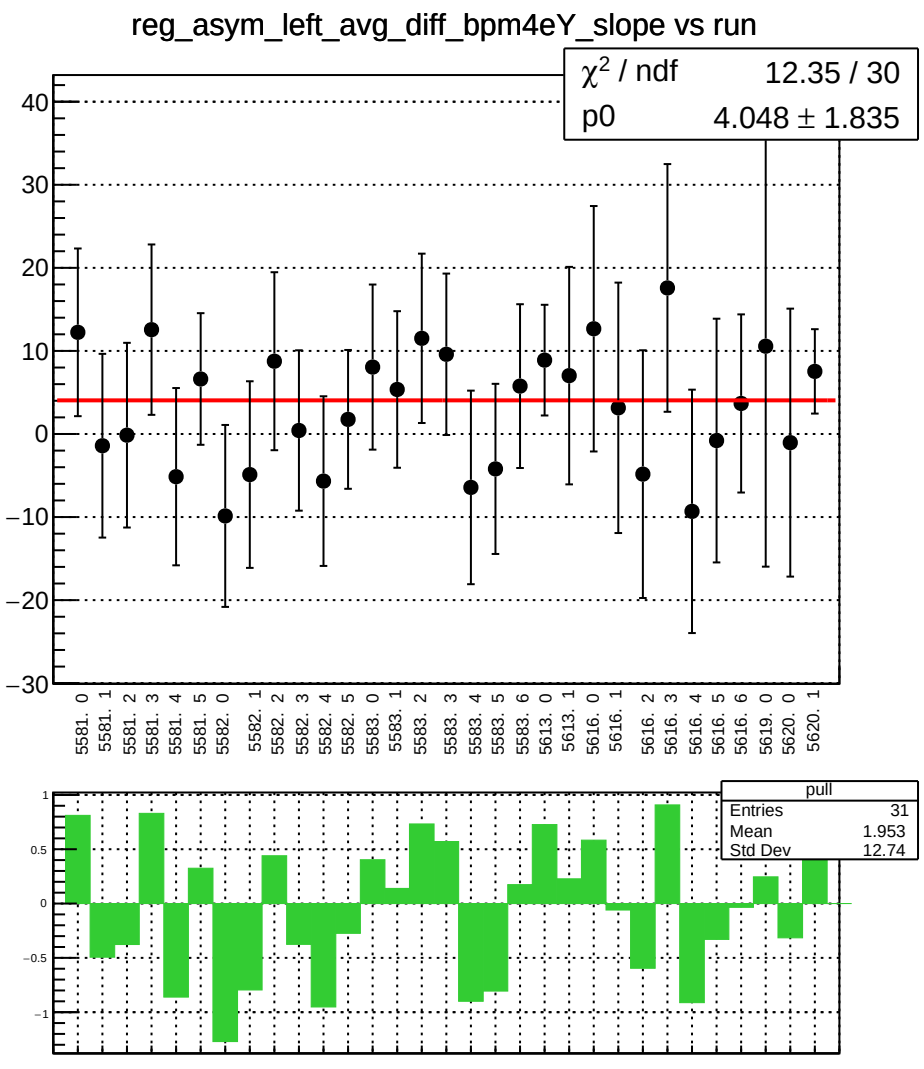

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 33.85 / 30
p0 −0.01537 ± 0.006333
0.1
0.05
0
−0.05
−0.1
−0.15
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −163.1
Std Dev 180.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.01024
Std Dev 1.045
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

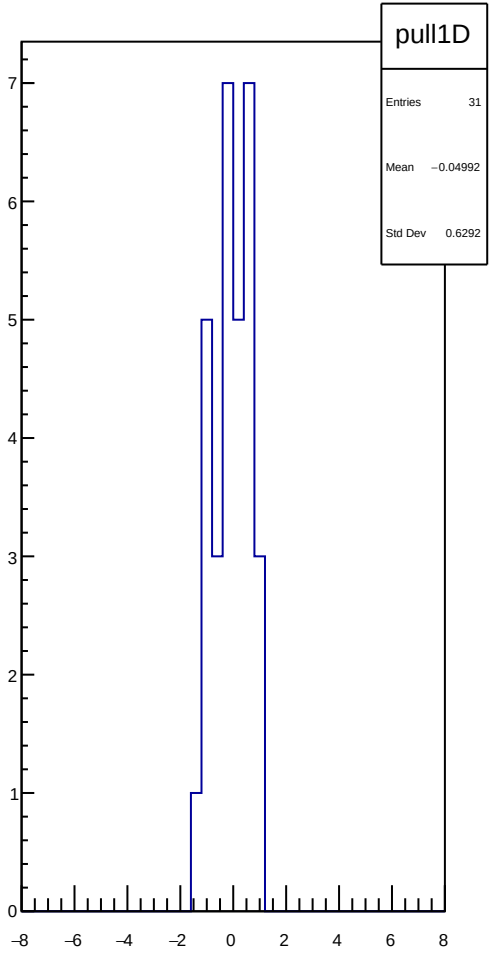

reg_asym_left_avg_diff_bpm4aX_slope vs run
χ² / ndf 35.08 / 30
p0 −30.03 ± 2.422
40
20
0
−20
−40
−60
−80
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −0.8985
Std Dev 15
2
1
0
−1
−2
−3
−4
pull1D
Entries 31
Mean 0.09584
Std Dev 1.059
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

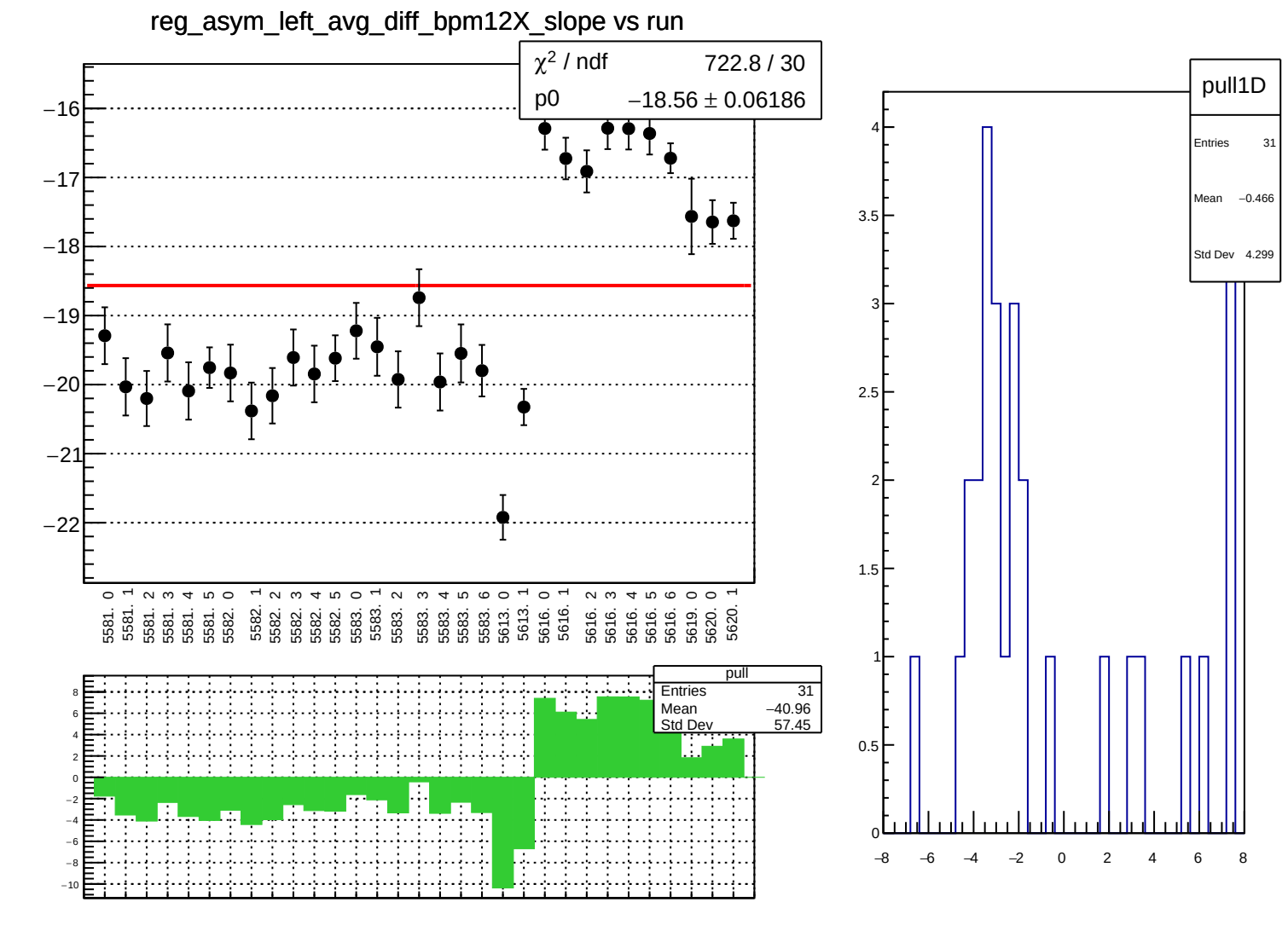

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 13 / 30
p0 3.939 ± 1.391
20
10
0
−10
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −7.305
Std Dev 23.49
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 31
Mean 0.05406
Std Dev 0.6453
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

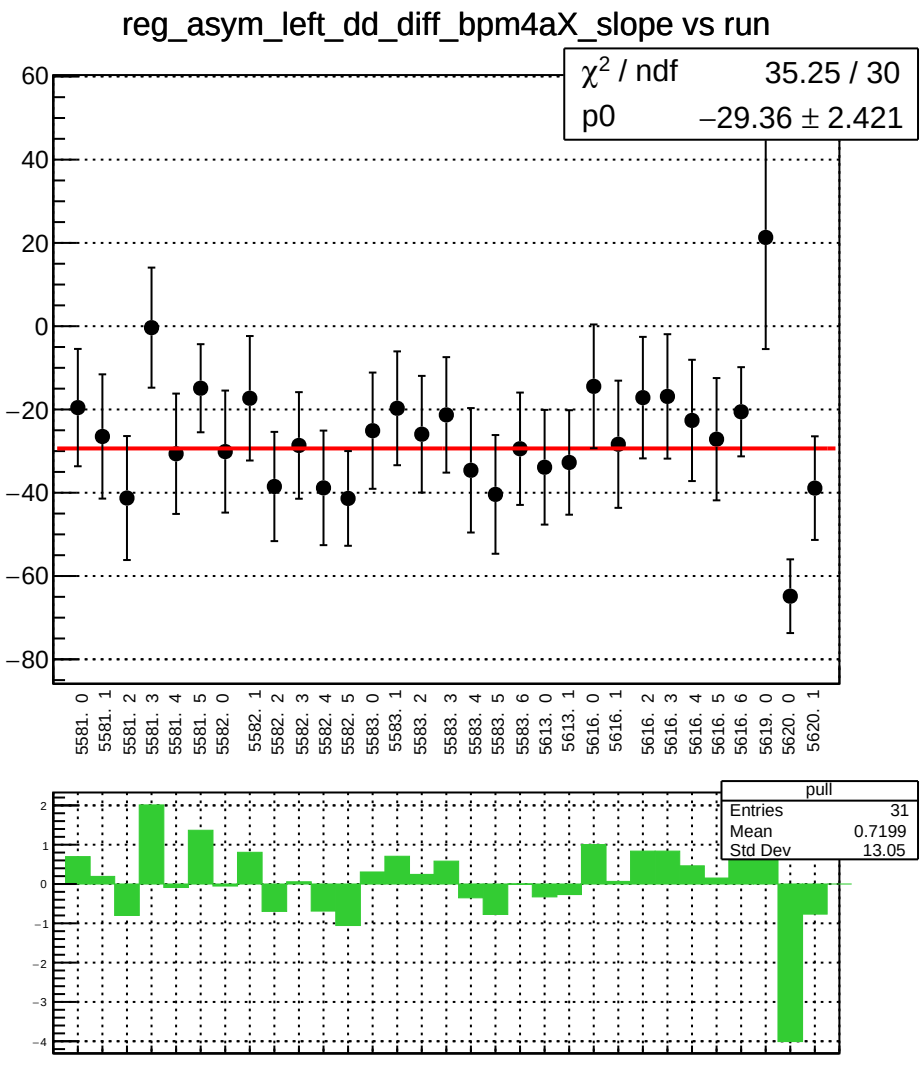

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 34.63 / 30
p0 5.407 ± 2.377
pull
Entries 31
Mean −0.1385
Std Dev 14.04

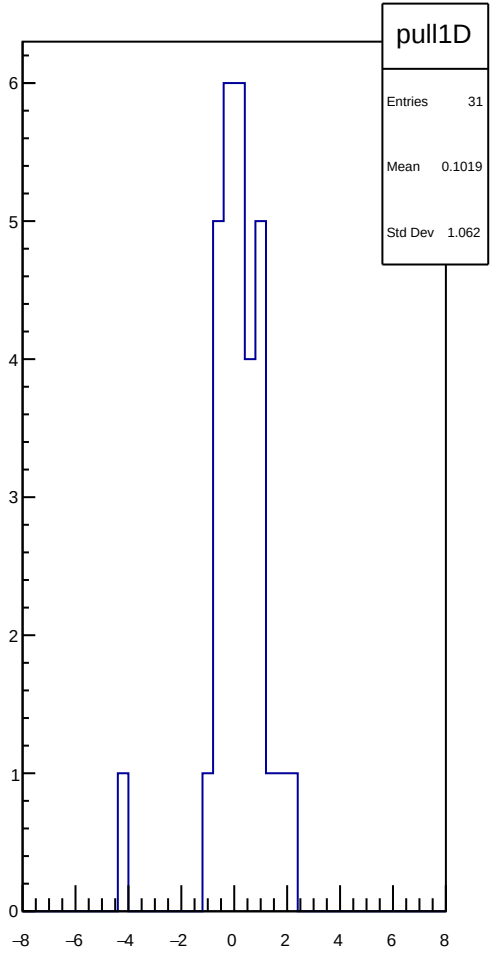

pull1D
Entries 31
Mean −0.09279
Std Dev 1.053

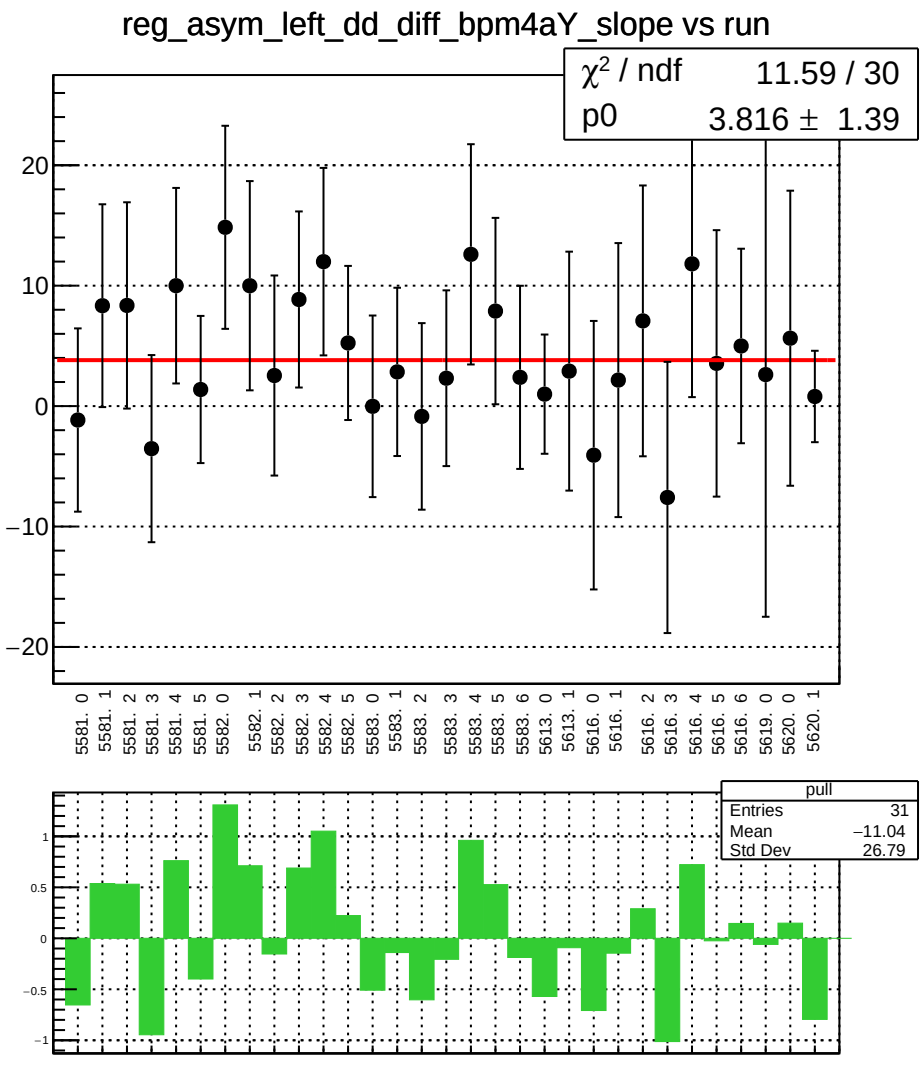

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 12.35 / 30
p0 4.048 ± 1.835
pull
Entries 31
Mean 1.953
Std Dev 12.74

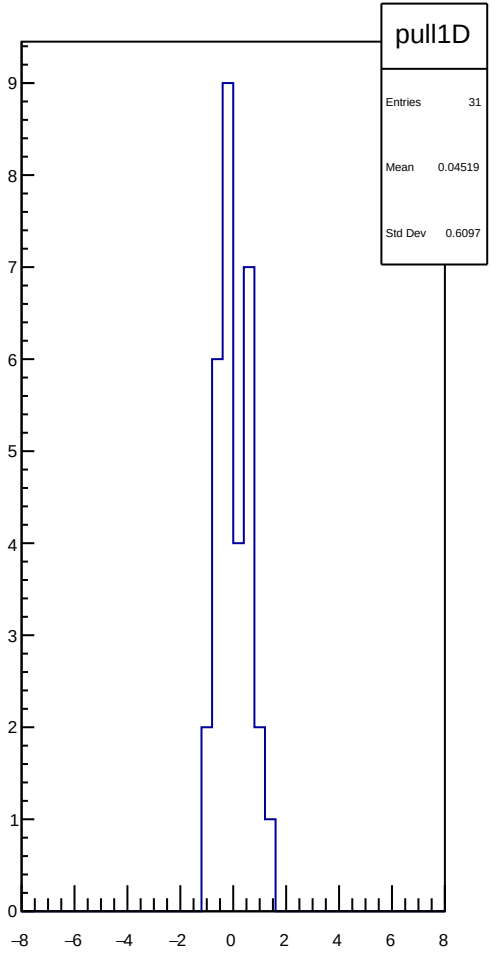

pull1D
Entries 31
Mean −0.04992
Std Dev 0.6292

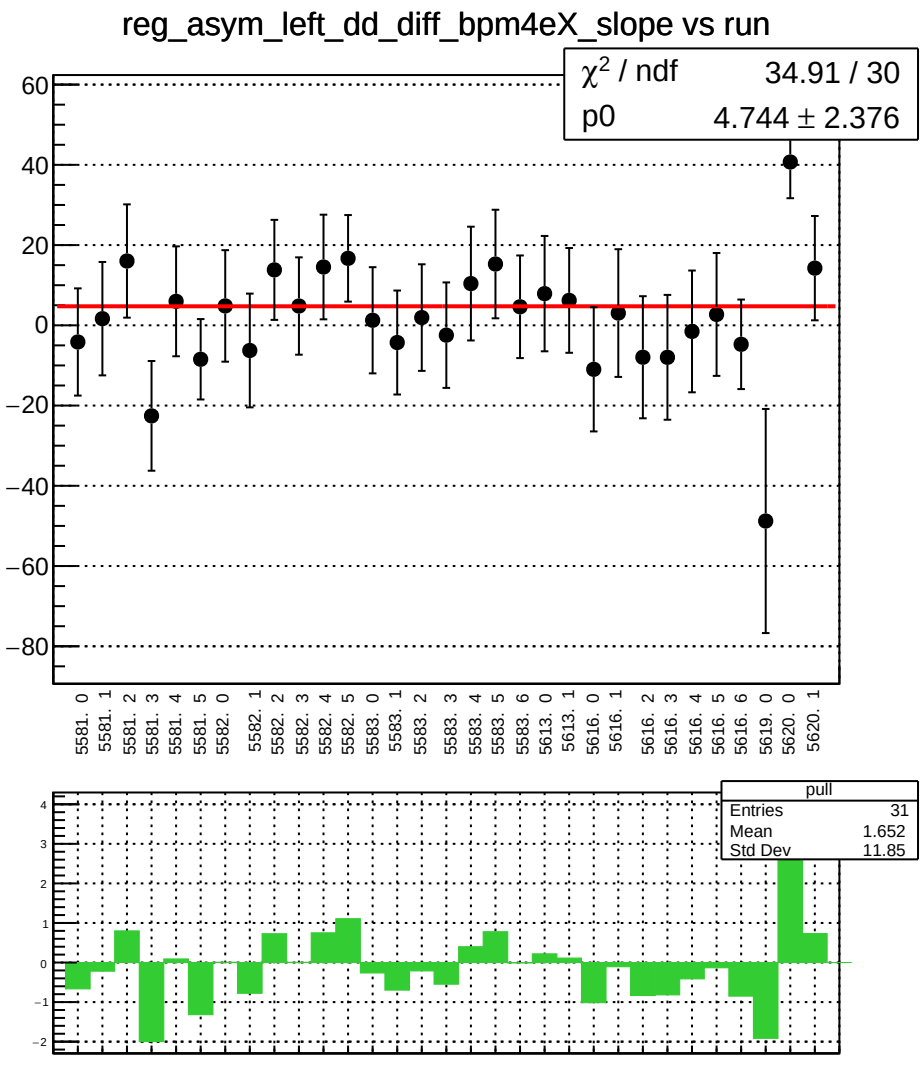

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 722.8 / 30
p0 −18.56 ± 0.06186
−16
−17
−18
−19
−20
−21
−22
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −40.96
Std Dev 57.45
8
6
4
2
0
−2
−4
−6
−8
−10
pull1D
Entries 31
Mean −0.466
Std Dev 4.299
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

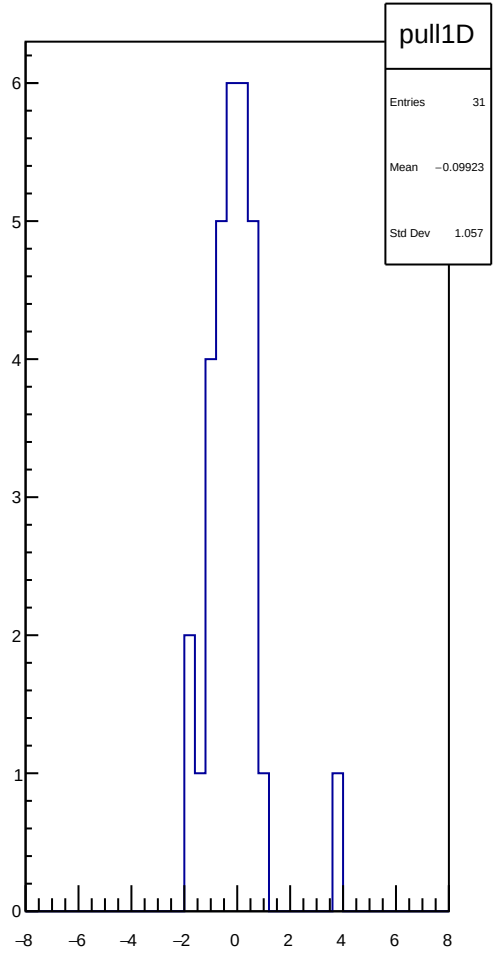

reg_asym_left_dd_diff_bpm4aX_slope vs run
χ² / ndf 35.25 / 30
p0 −29.36 ± 2.421
60
40
20
0
−20
−40
−60
−80
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 0.7199
Std Dev 13.05
2
1
0
−1
−2
−3
−4

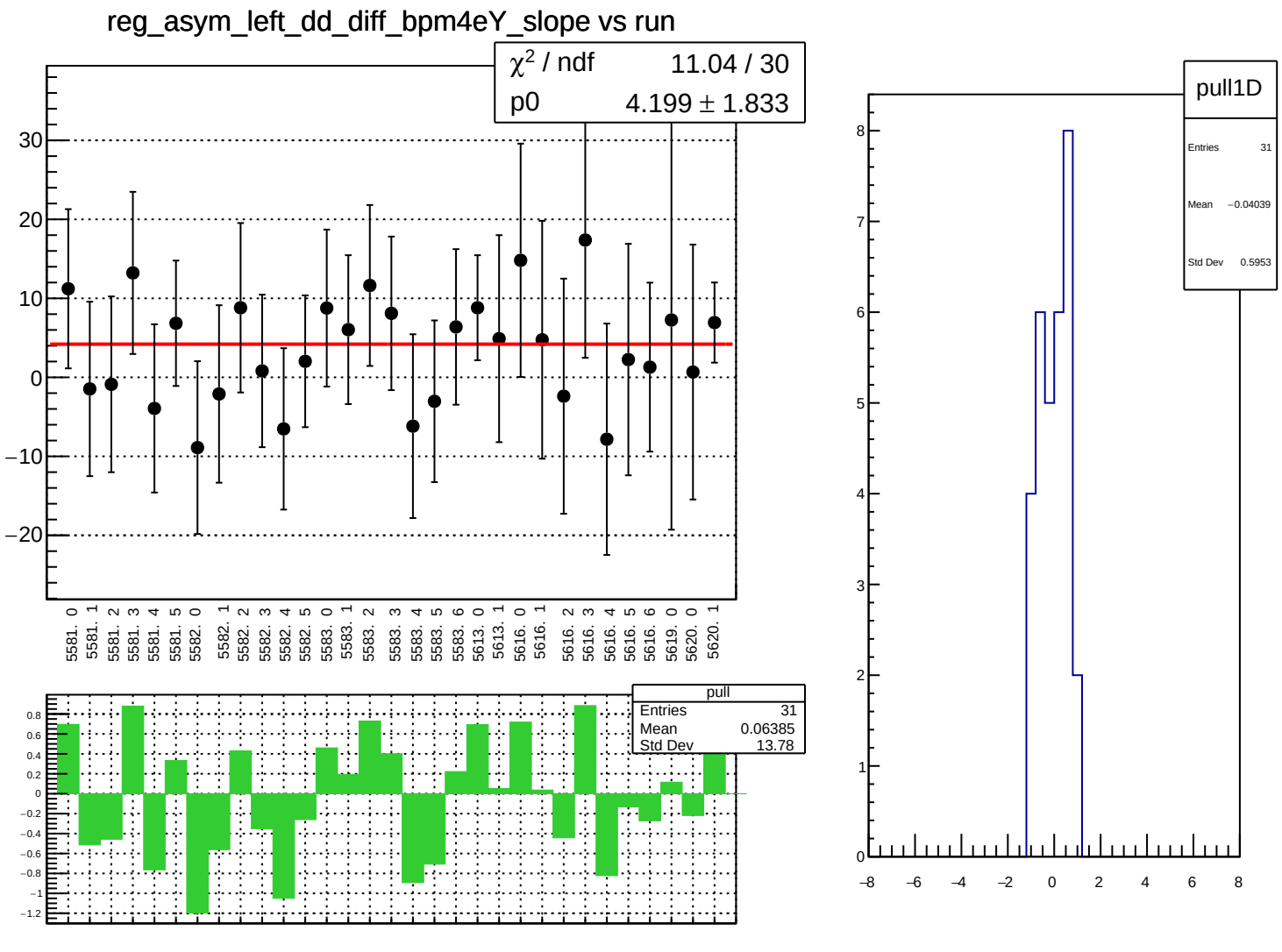

pull1D
Entries 31
Mean 0.1019
Std Dev 1.062
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

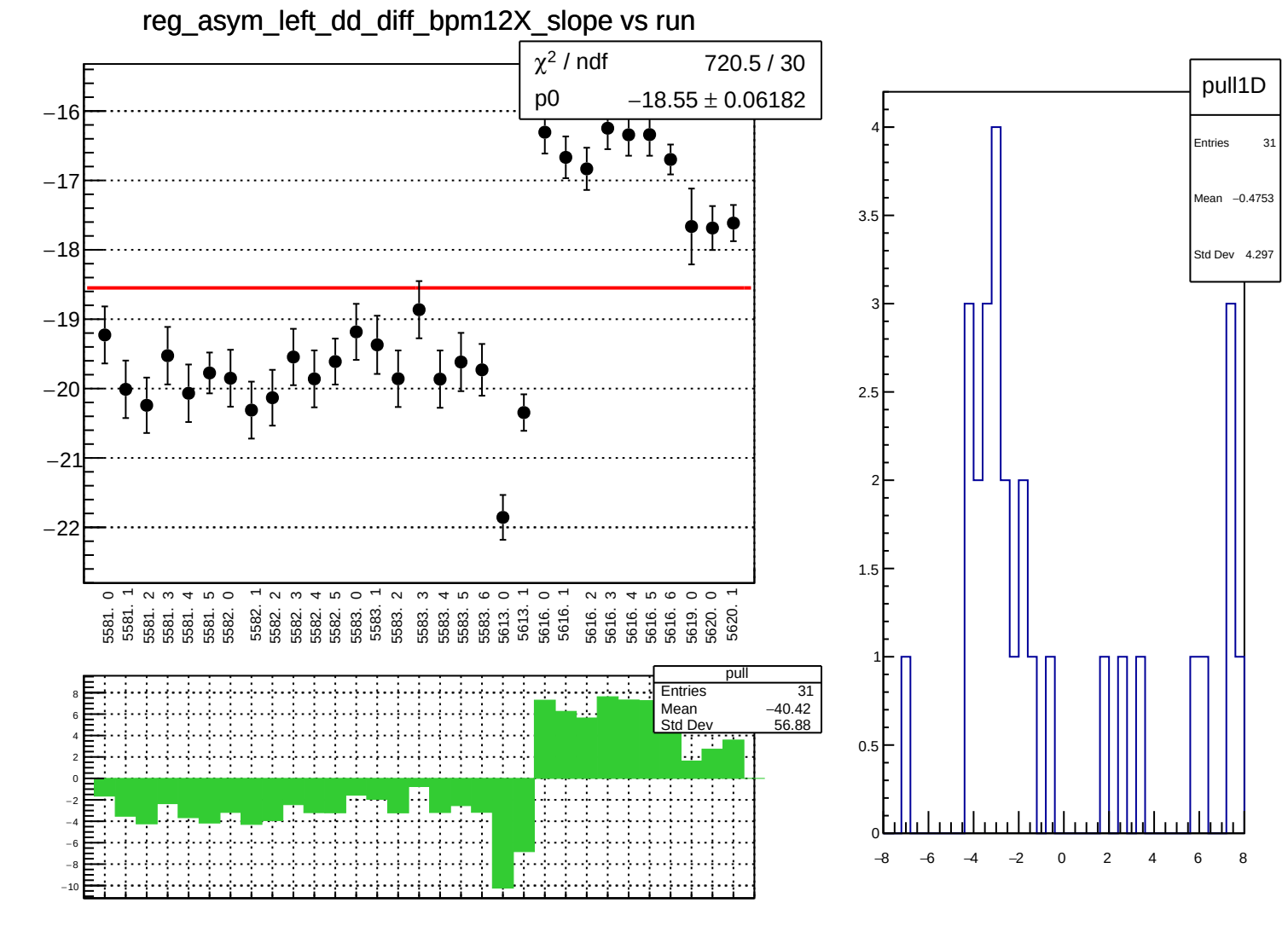

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.59 / 30
p0 3.816 ± 1.39
20
10
0
−10
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −11.04
Std Dev 26.79
1
0.5
0
−0.5
−1

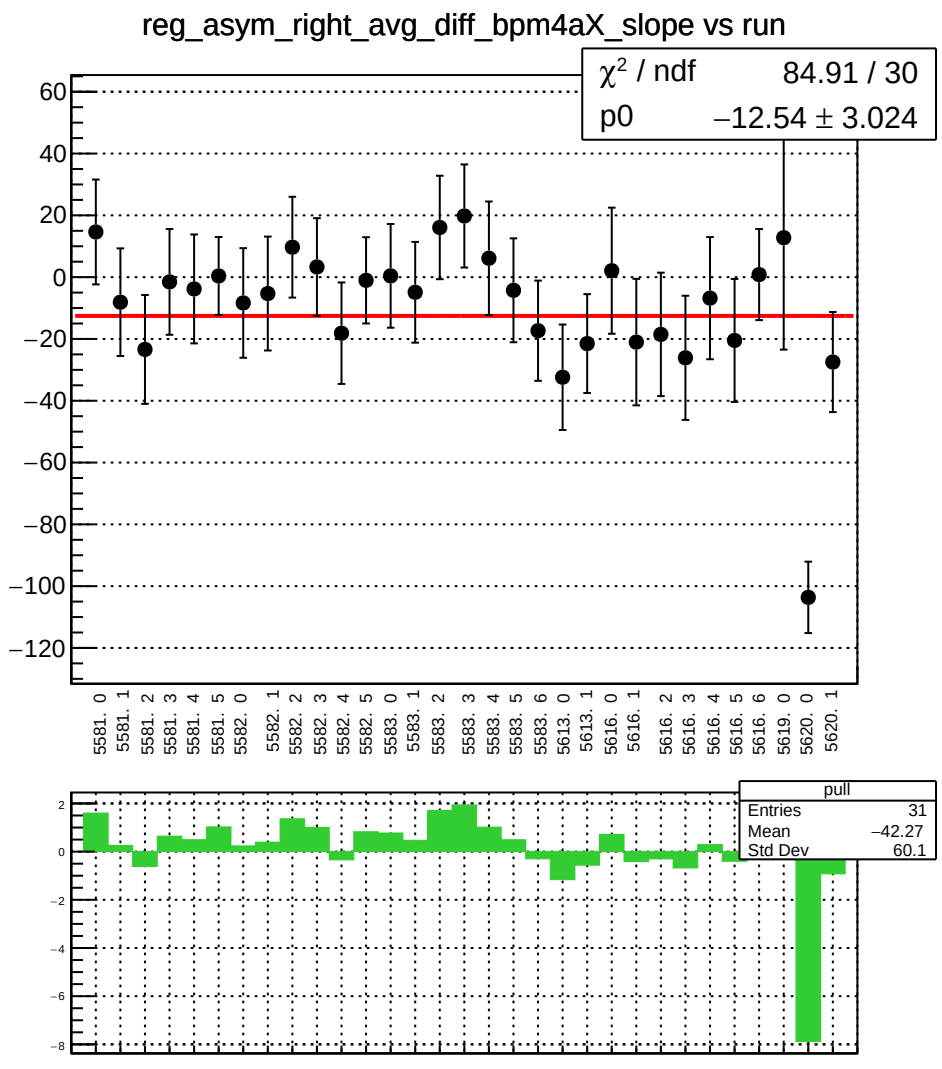

pull1D
Entries 31
Mean 0.04519
Std Dev 0.6097
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

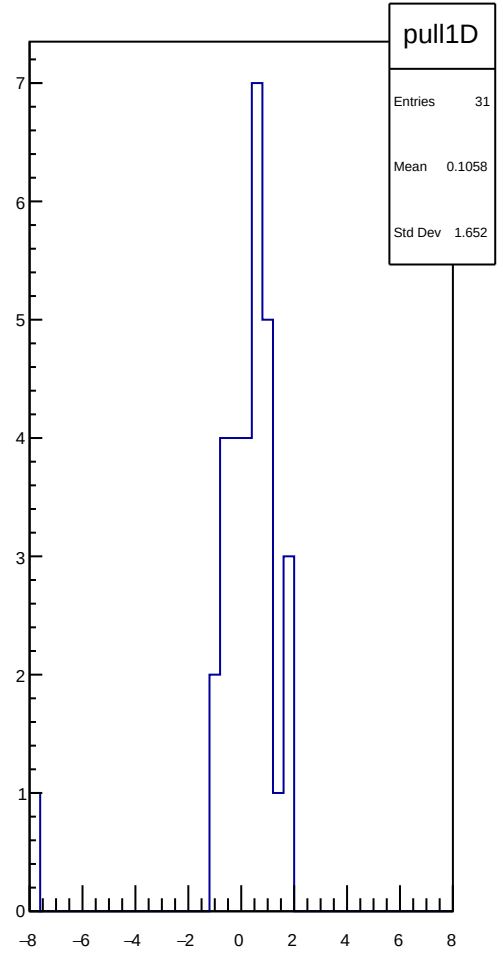

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 34.91 / 30
p0 4.744 ± 2.376
60
40
20
0
−20
−40
−60
−80
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 1.652
Std Dev 11.85
4
3
2
1
0
−1
−2

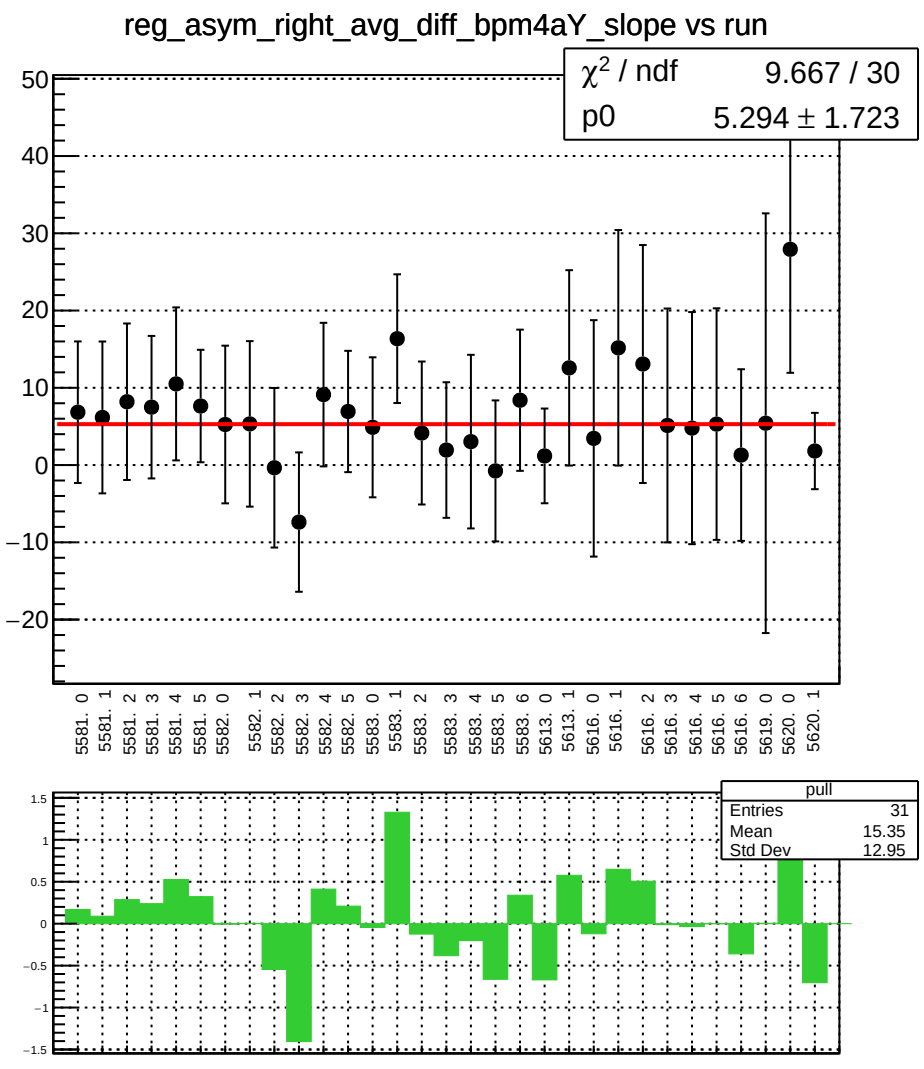

pull1D
Entries 31
Mean −0.09923
Std Dev 1.057
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

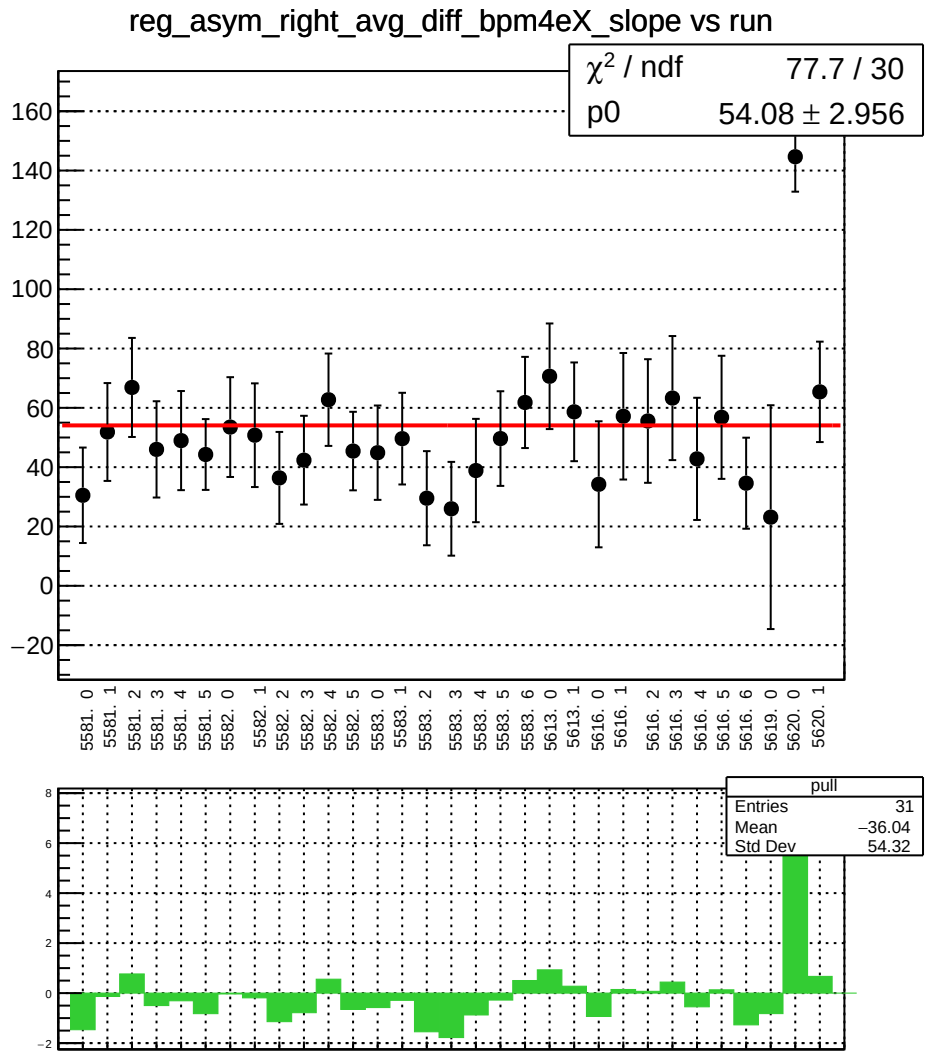

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.04 / 30
p0 4.199 ± 1.833
30
20
10
0
−10
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 0.06385
Std Dev 13.78
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 31
Mean −0.04039
Std Dev 0.5953
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

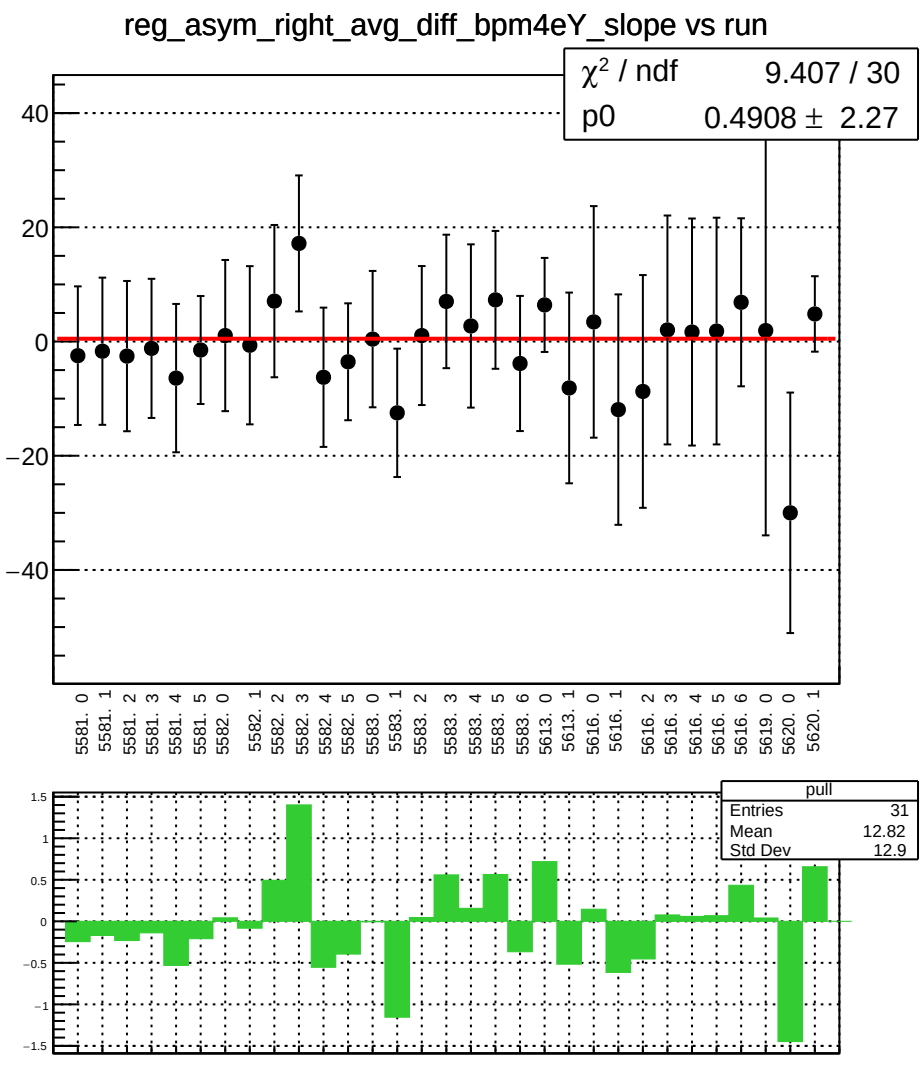

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 720.5 / 30
p0 −18.55 ± 0.06182
−16
−17
−18
−19
−20
−21
−22
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −40.42
Std Dev 56.88
8
6
4
2
0
−2
−4
−6
−8
−10
pull1D
Entries 31
Mean −0.4753
Std Dev 4.297
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

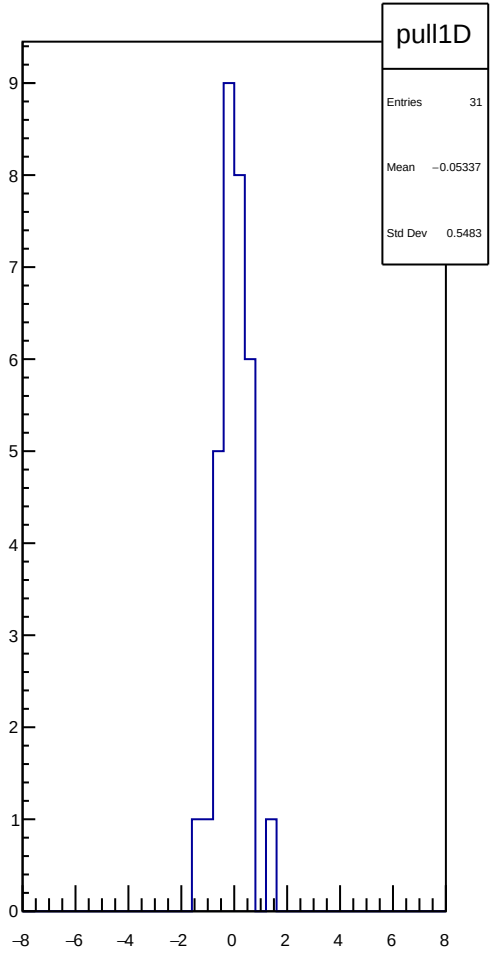

reg_asym_right_avg_diff_bpm4aX_slope vs run
χ² / ndf 84.91 / 30
p0 −12.54 ± 3.024
pull
Entries 31
Mean −42.27
Std Dev 60.1

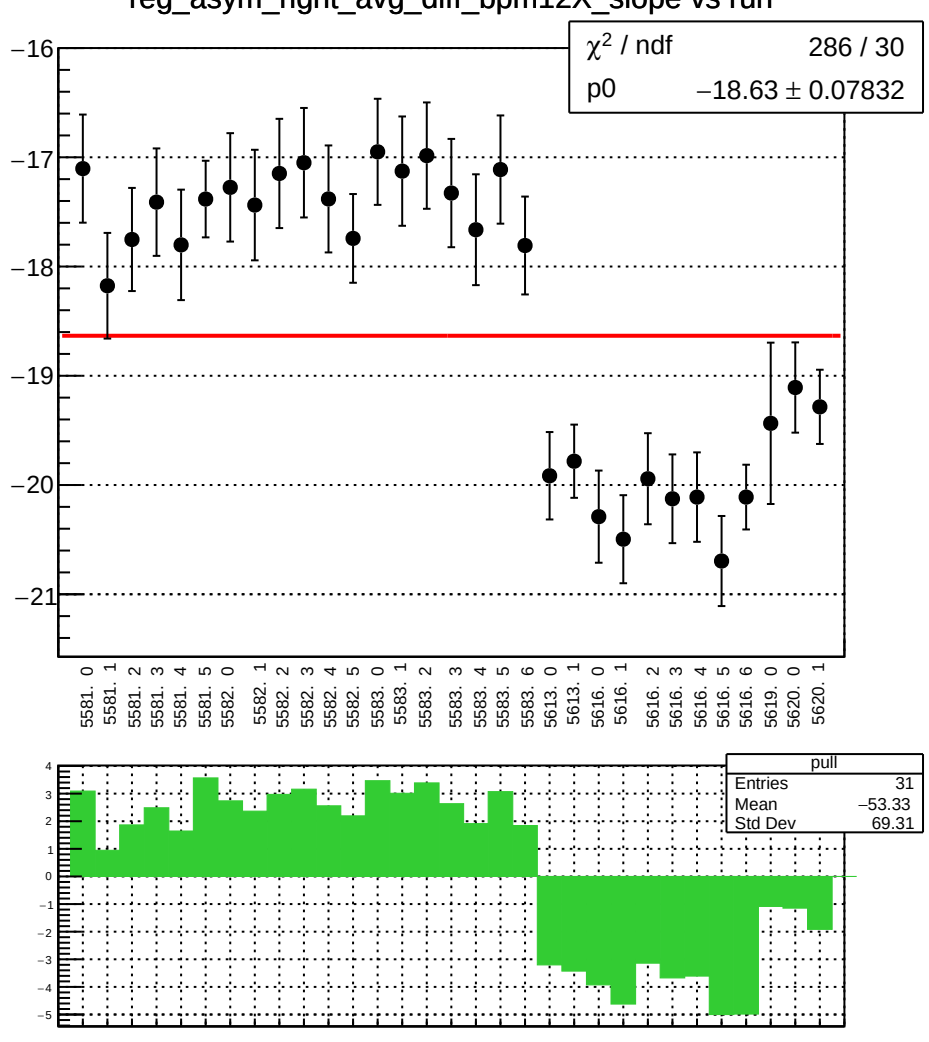

pull1D
Entries 31
Mean 0.1058
Std Dev 1.652

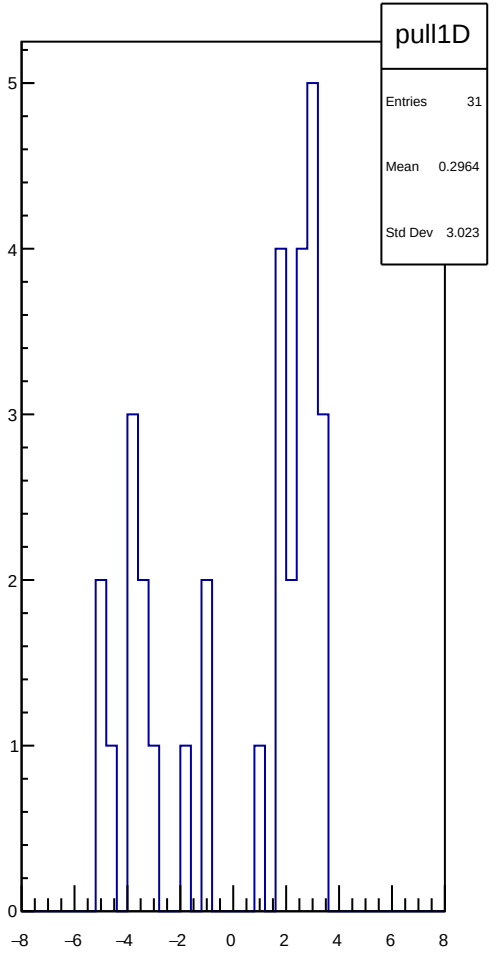

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.667 / 30
p0 5.294 ± 1.723
50
40
30
20
10
0
−10
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 15.35
Std Dev 12.95
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.0582
Std Dev 0.5554
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

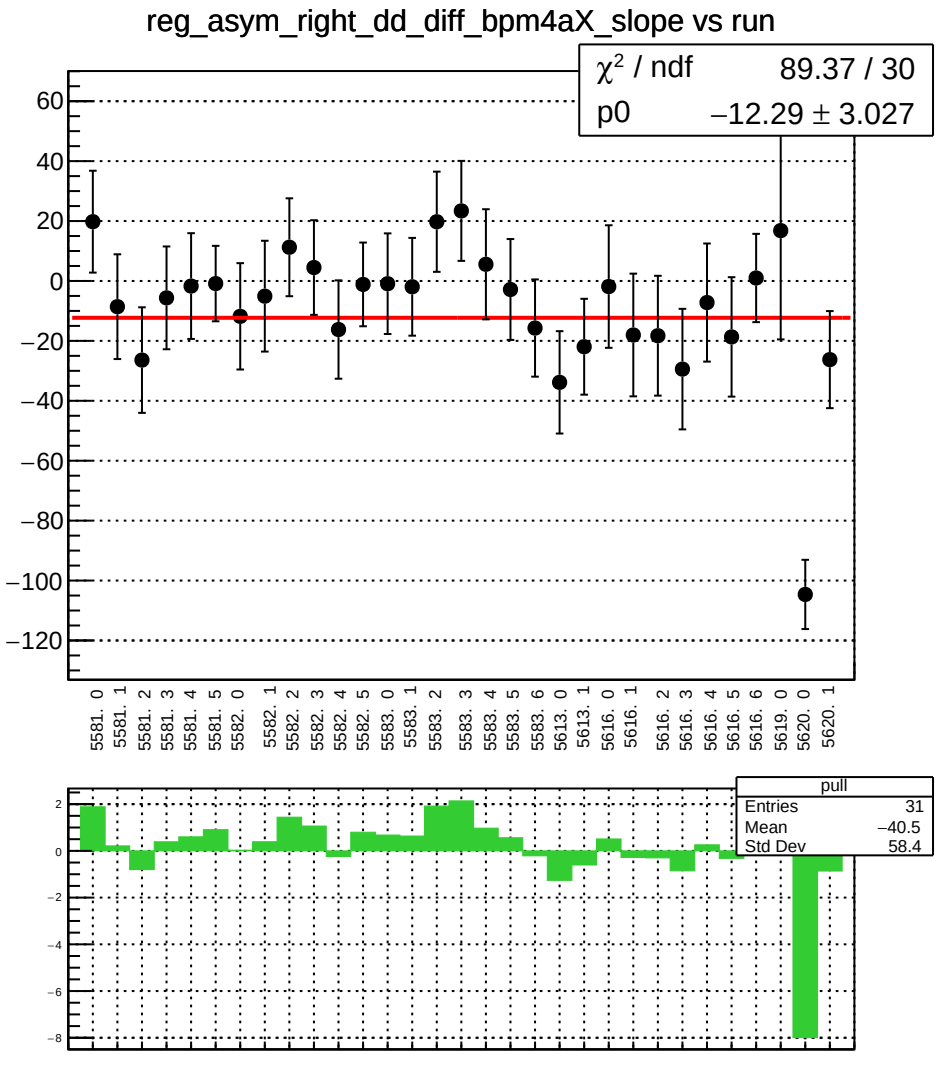

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 77.7 / 30
p0 54.08 ± 2.956
160
140
120
100
80
60
40
20
0
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −36.04
Std Dev 54.32
8
6
4
2
0
−2
pull1D
Entries 31
Mean −0.08919
Std Dev 1.581
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

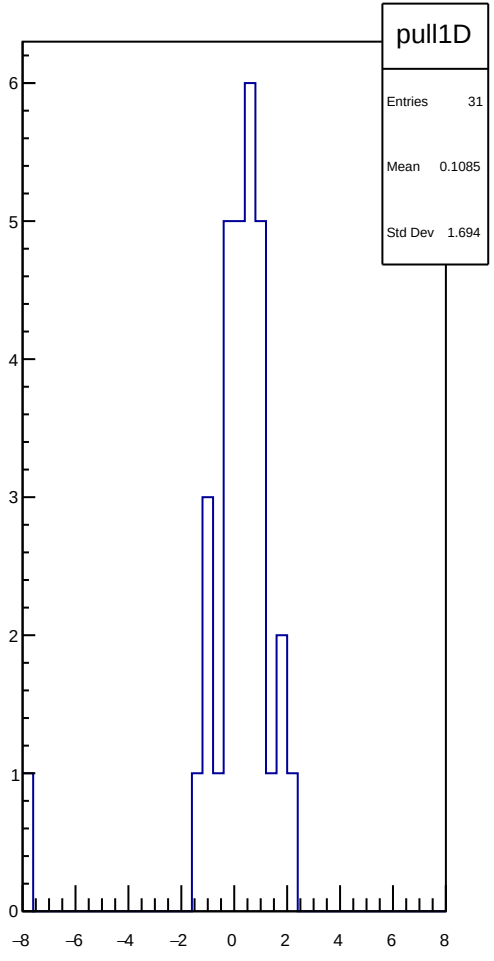

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 9.407 / 30
p0 0.4908 ± 2.27
40
20
0
−20
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 12.82
Std Dev 12.9
1.5
1
0.5
0
−0.5
−1
−1.5

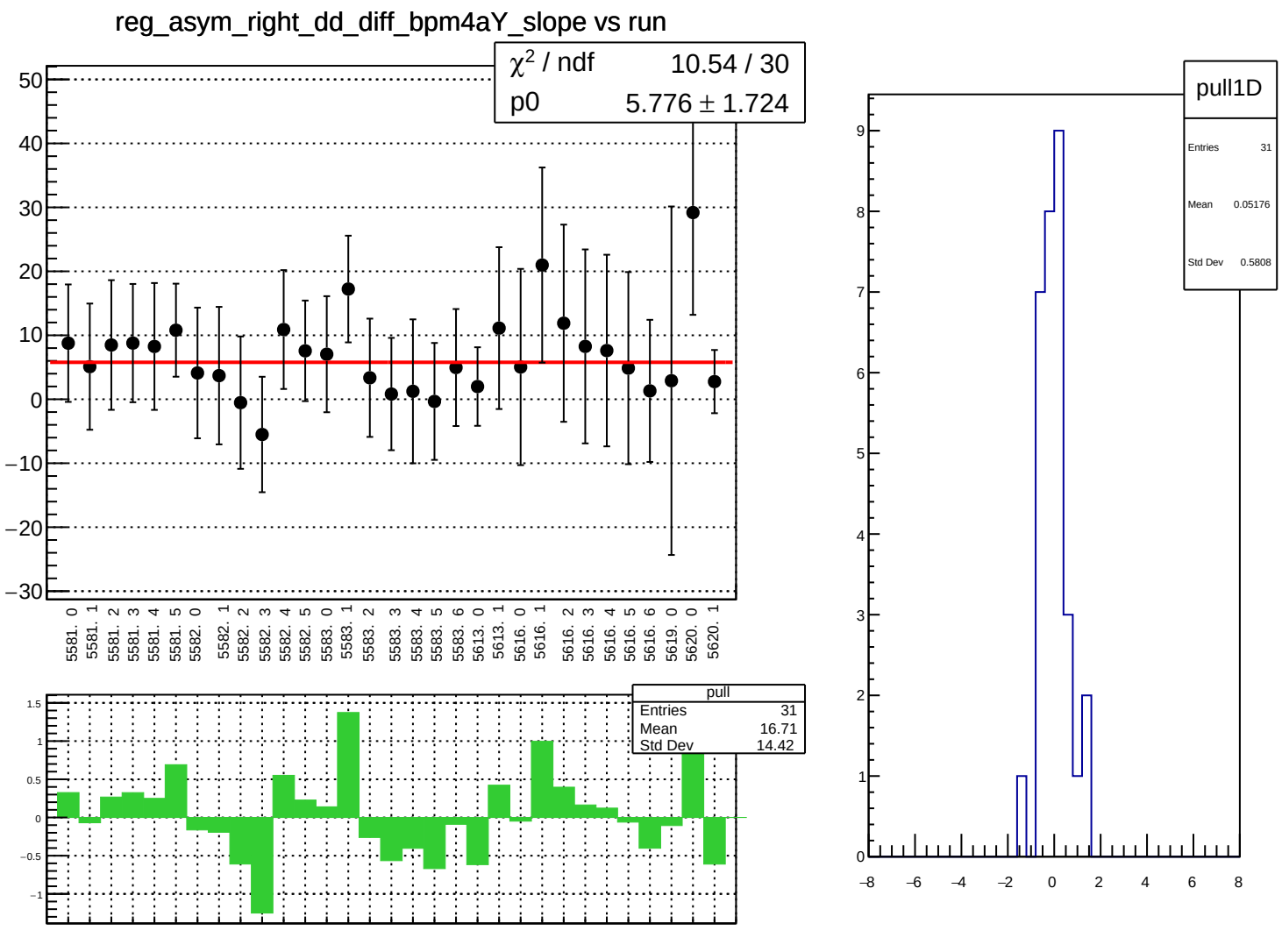

pull1D
Entries 31
Mean −0.05337
Std Dev 0.5483
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

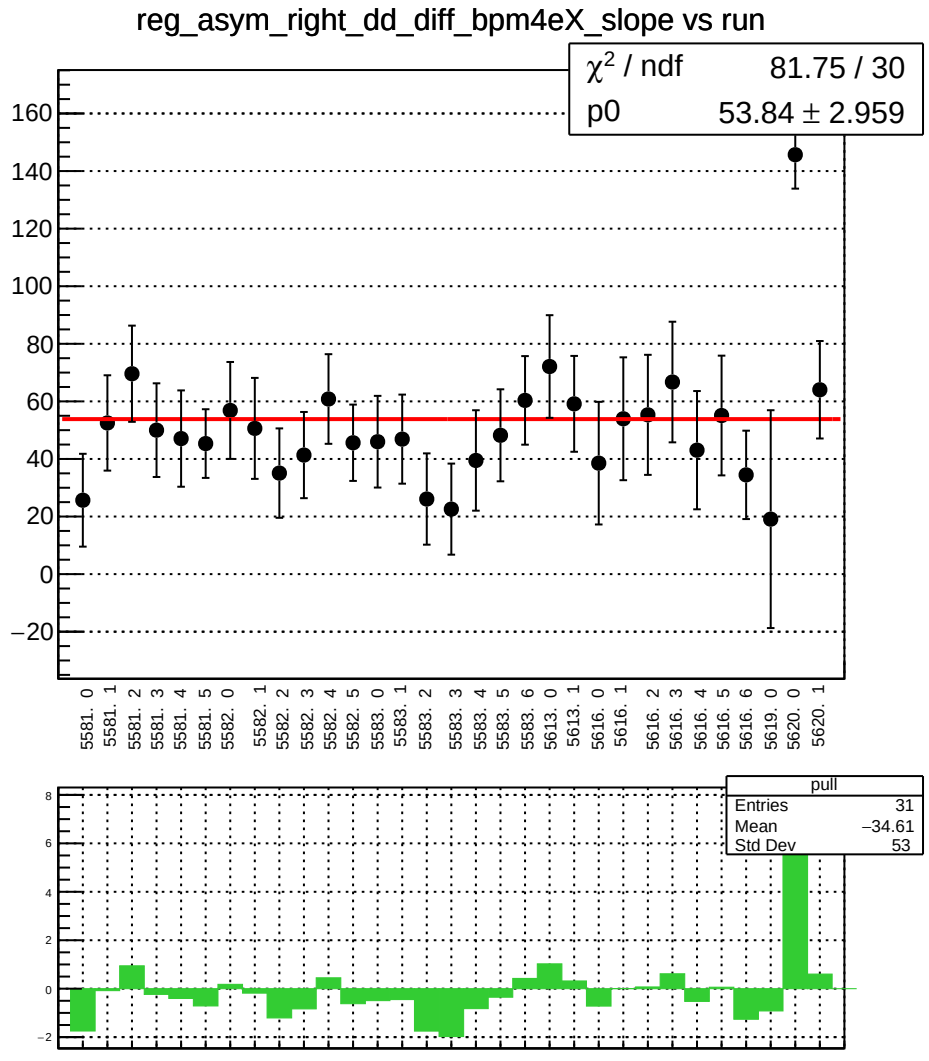

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 286 / 30
p0 −18.63 ± 0.07832
−16
−17
−18
−19
−20
−21
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −53.33
Std Dev 69.31
4
3
2
1
0
−1
−2
−3
−4
−5

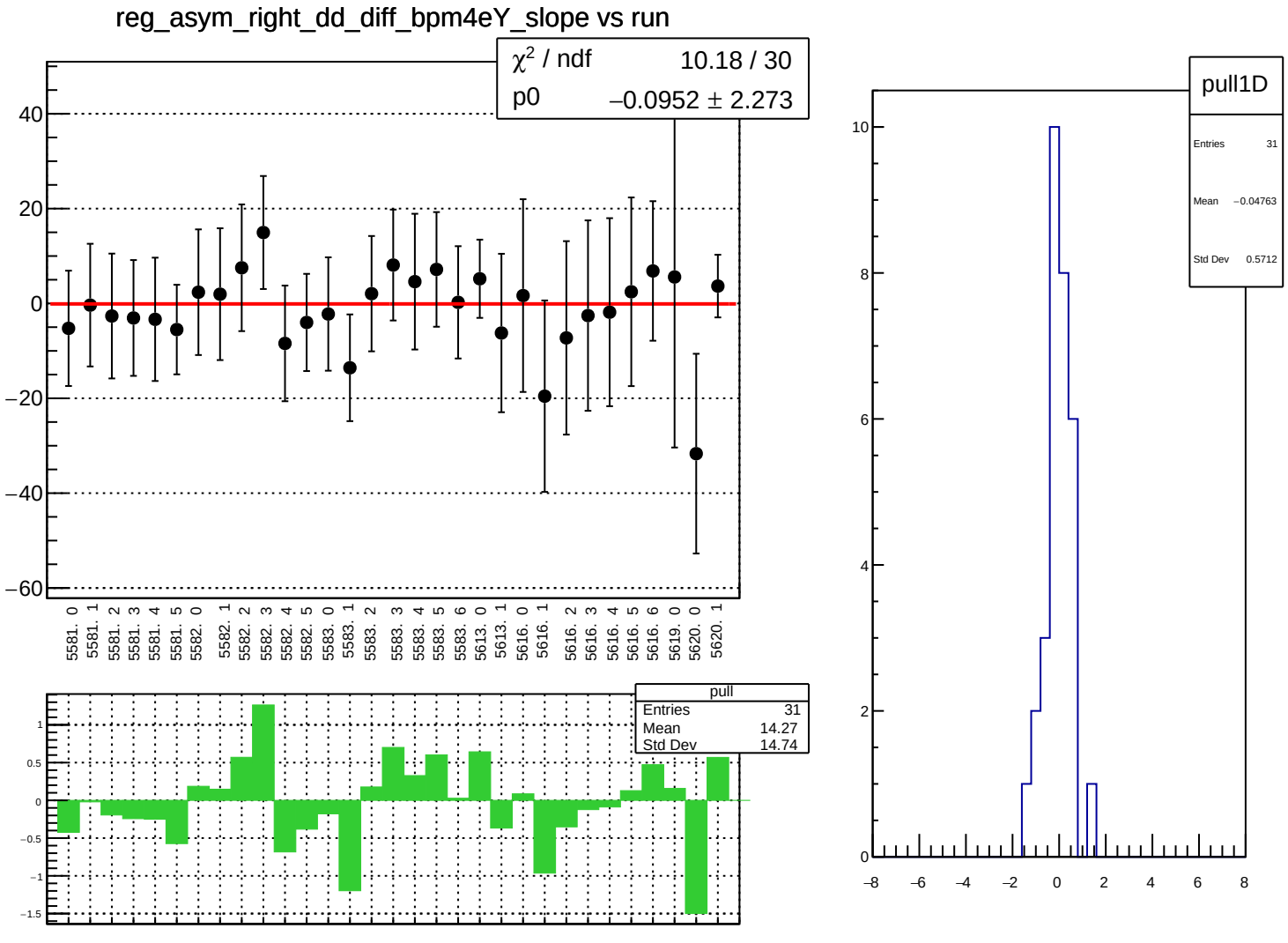

pull1D
Entries 31
Mean 0.2964
Std Dev 3.023
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

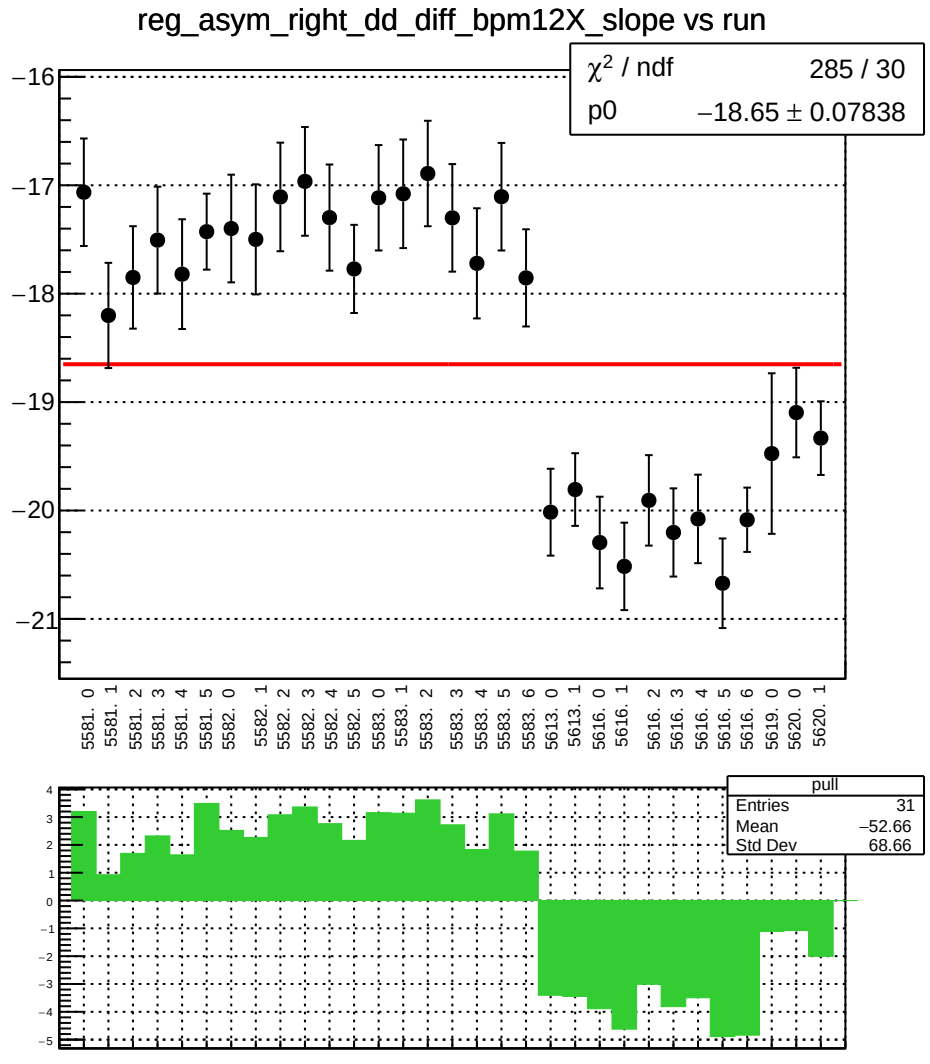

reg_asym_right_dd_diff_bpm4aX_slope vs run
χ² / ndf 89.37 / 30
p0 −12.29 ± 3.027
pull
Entries 31
Mean −40.5
Std Dev 58.4

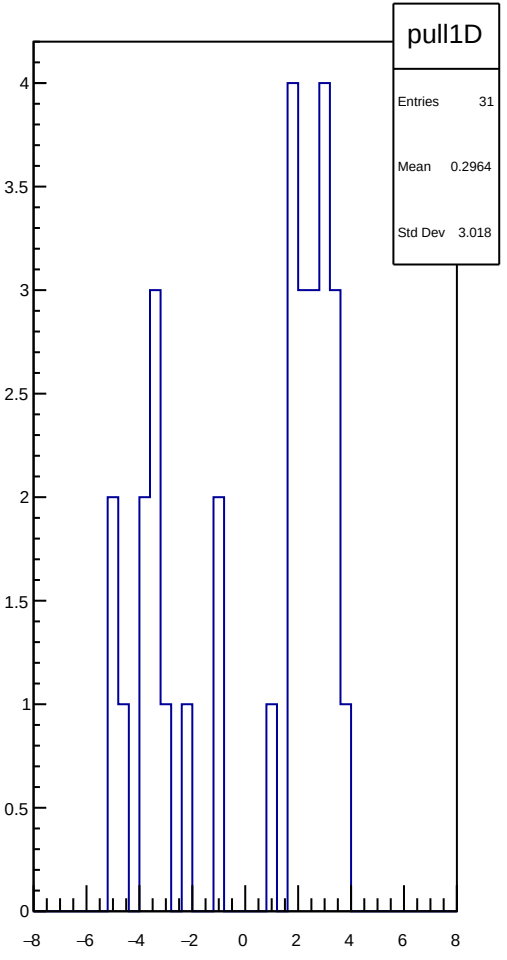

pull1D
Entries 31
Mean 0.1085
Std Dev 1.694

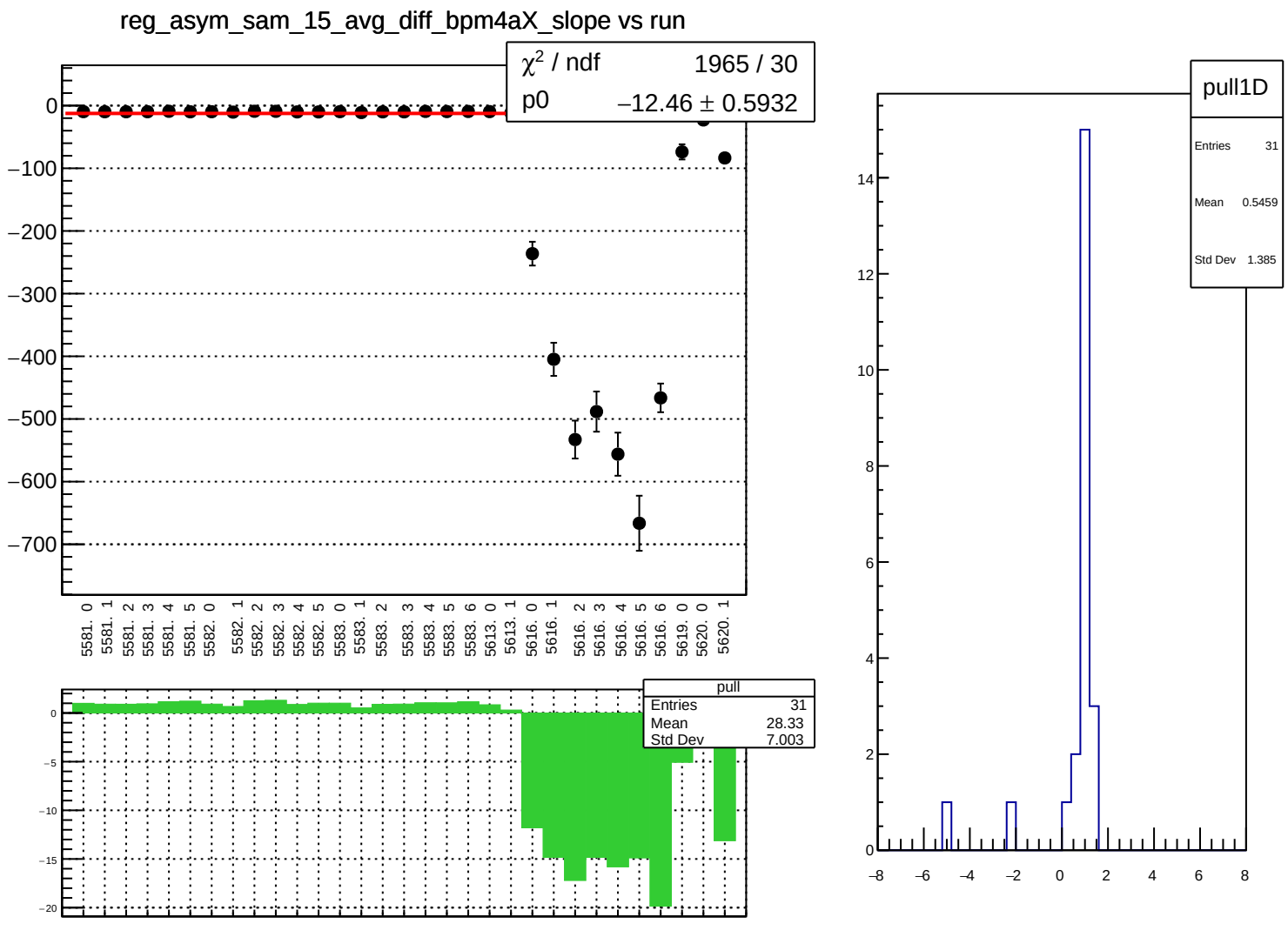

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.54 / 30
p0 5.776 ± 1.724
pull
Entries 31
Mean 16.71
Std Dev 14.42
pull1D
Entries 31
Mean 0.05176
Std Dev 0.5808

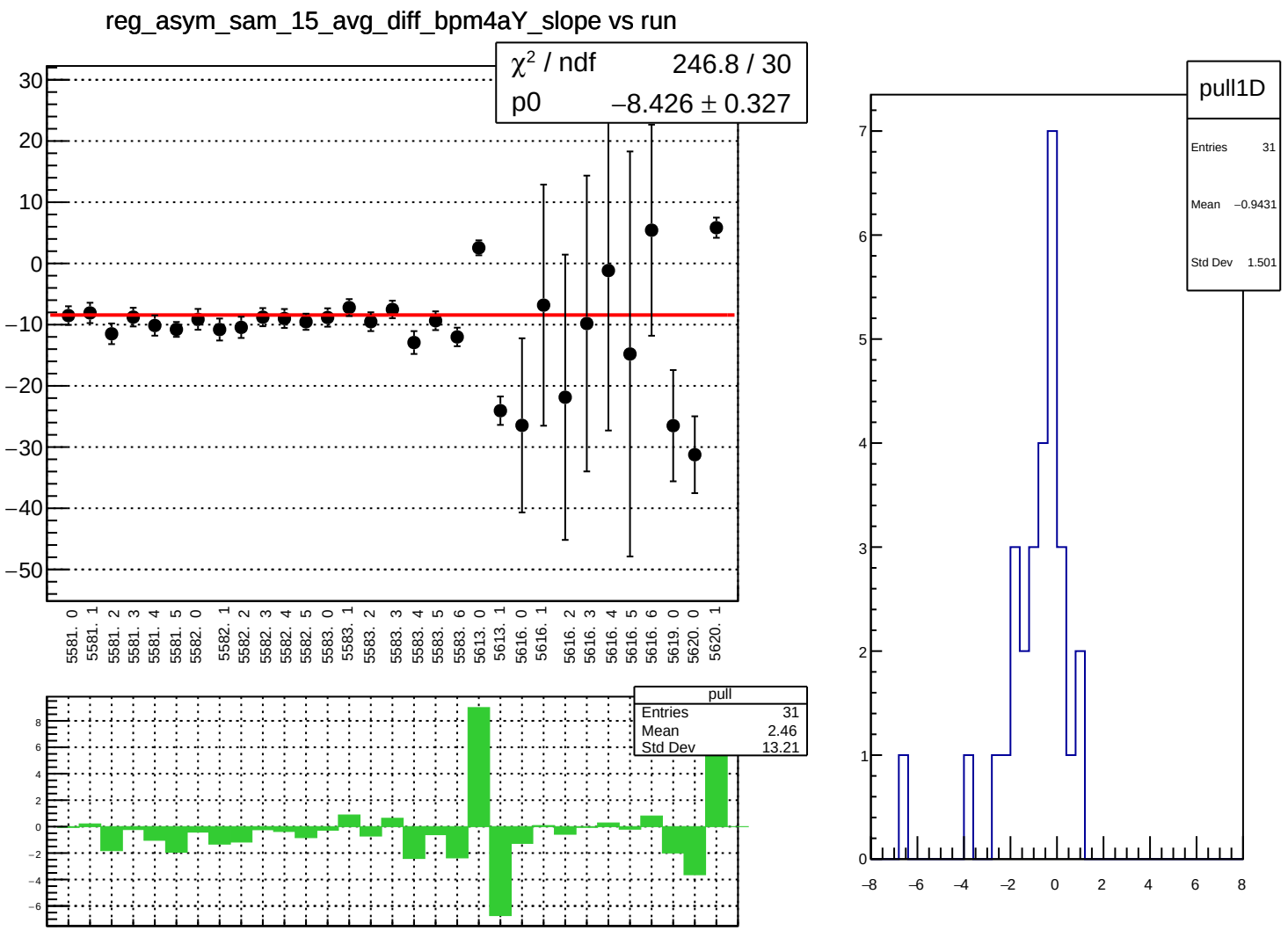

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 81.75 / 30
p0 53.84 ± 2.959
160
140
120
100
80
60
40
20
0
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −34.61
Std Dev 53
8
6
4
2
0
−2
pull1D
Entries 31
Mean −0.0907
Std Dev 1.621
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

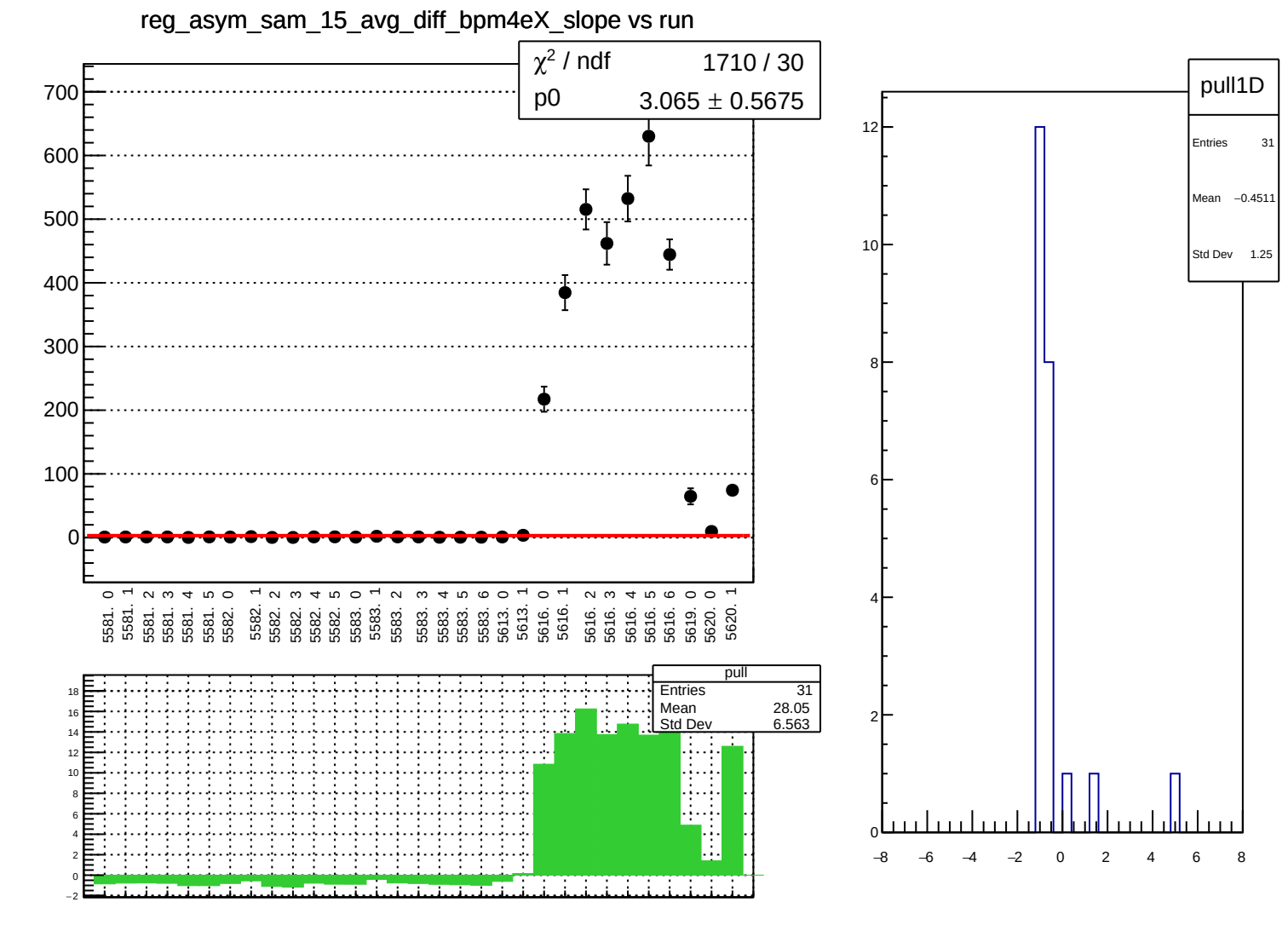

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 10.18 / 30
p0 −0.0952 ± 2.273
40
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 14.27
Std Dev 14.74
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean −0.04763
Std Dev 0.5712
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

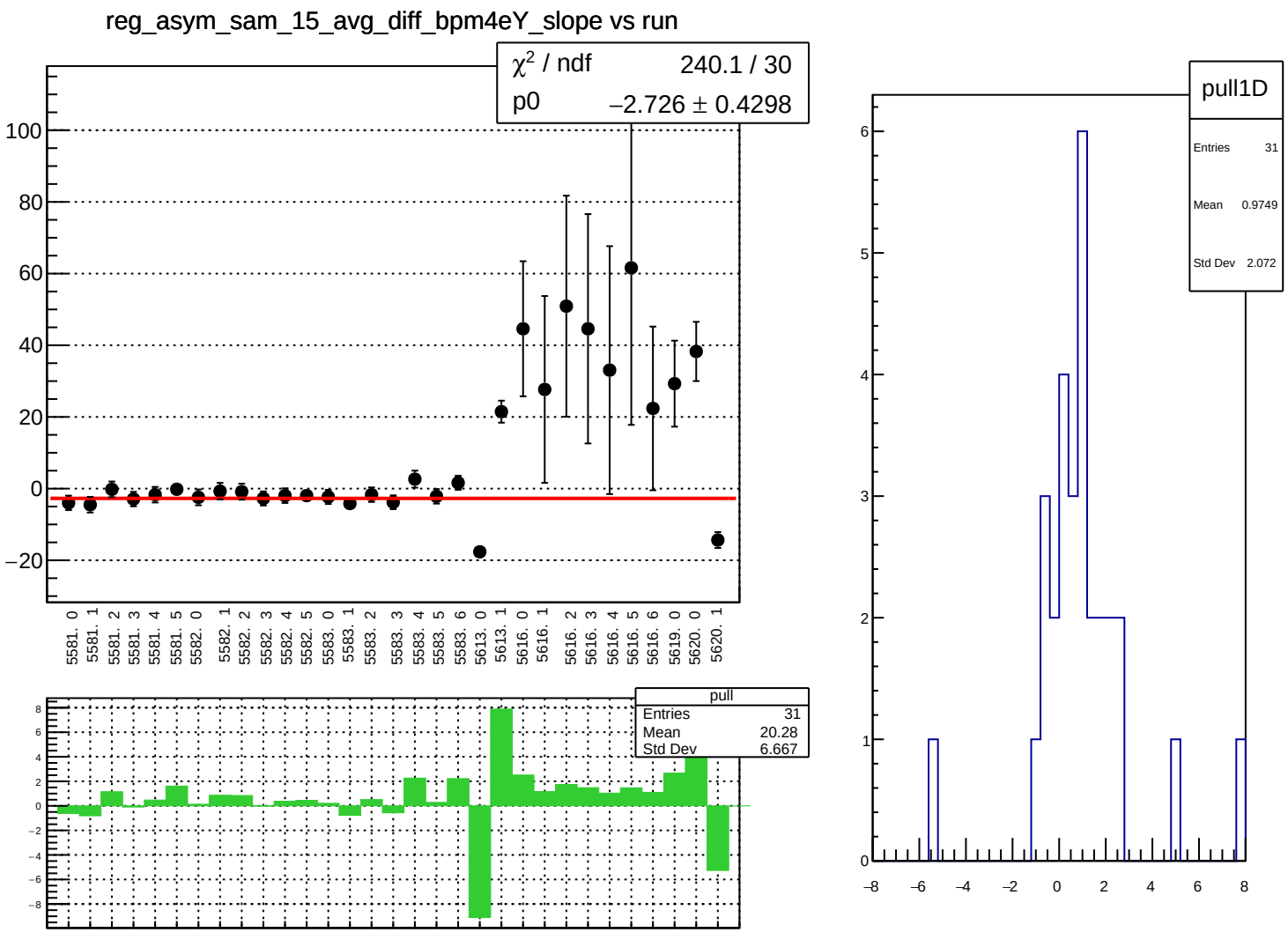

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 285 / 30
p0 −18.65 ± 0.07838
−16
−17
−18
−19
−20
−21
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −52.66
Std Dev 68.66
4
3
2
1
0
−1
−2
−3
−4
−5

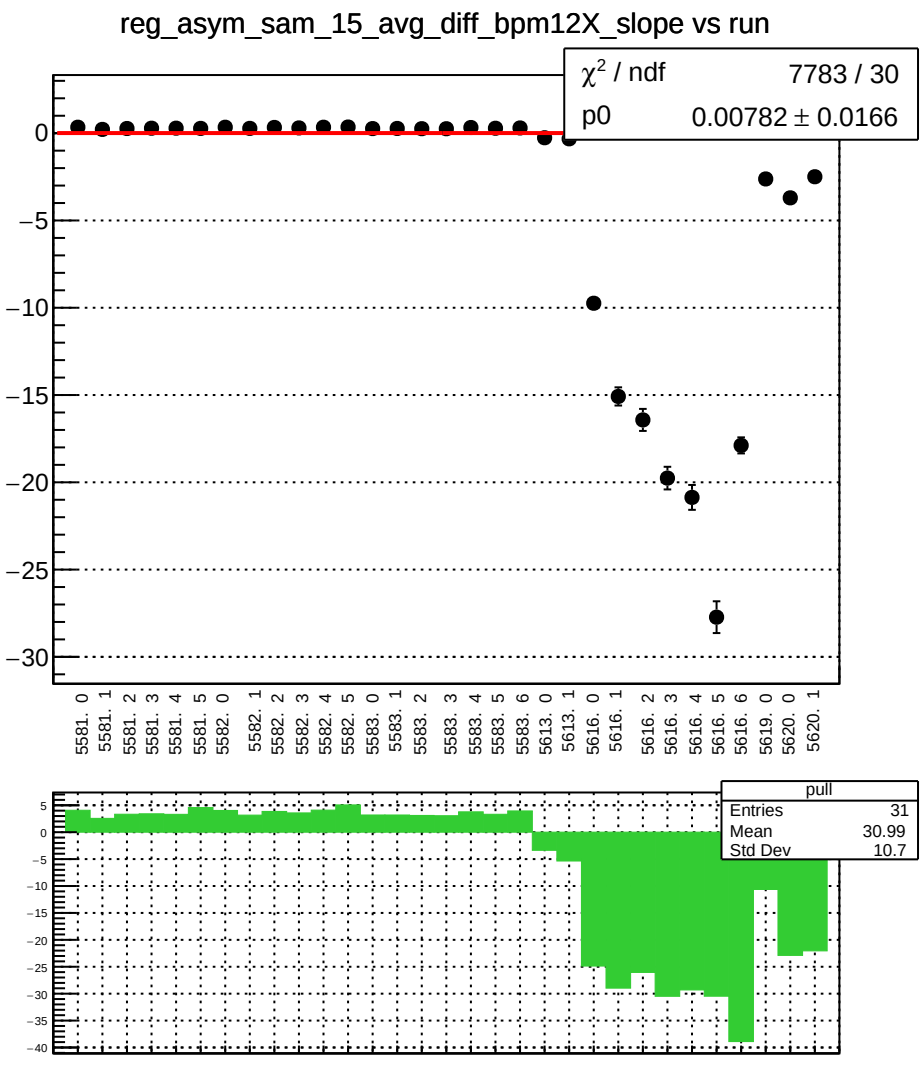

pull1D
Entries 31
Mean 0.2964
Std Dev 3.018
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

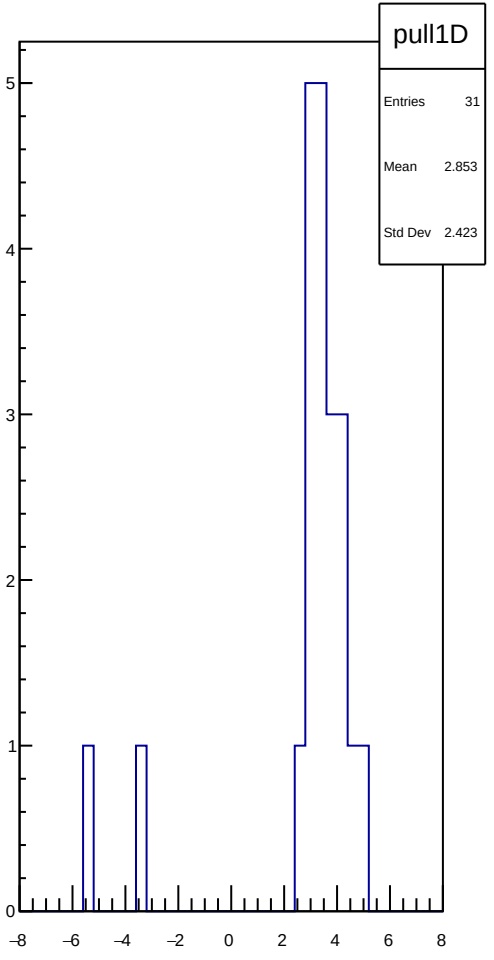

reg_asym_sam_15_avg_diff_bpm4aX_slope vs run
χ² / ndf 1965 / 30
p0 −12.46 ± 0.5932
0
−100
−200
−300
−400
−500
−600
−700
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 28.33
Std Dev 7.003
0
−5
−10
−15
−20
pull1D
Entries 31
Mean 0.5459
Std Dev 1.385
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

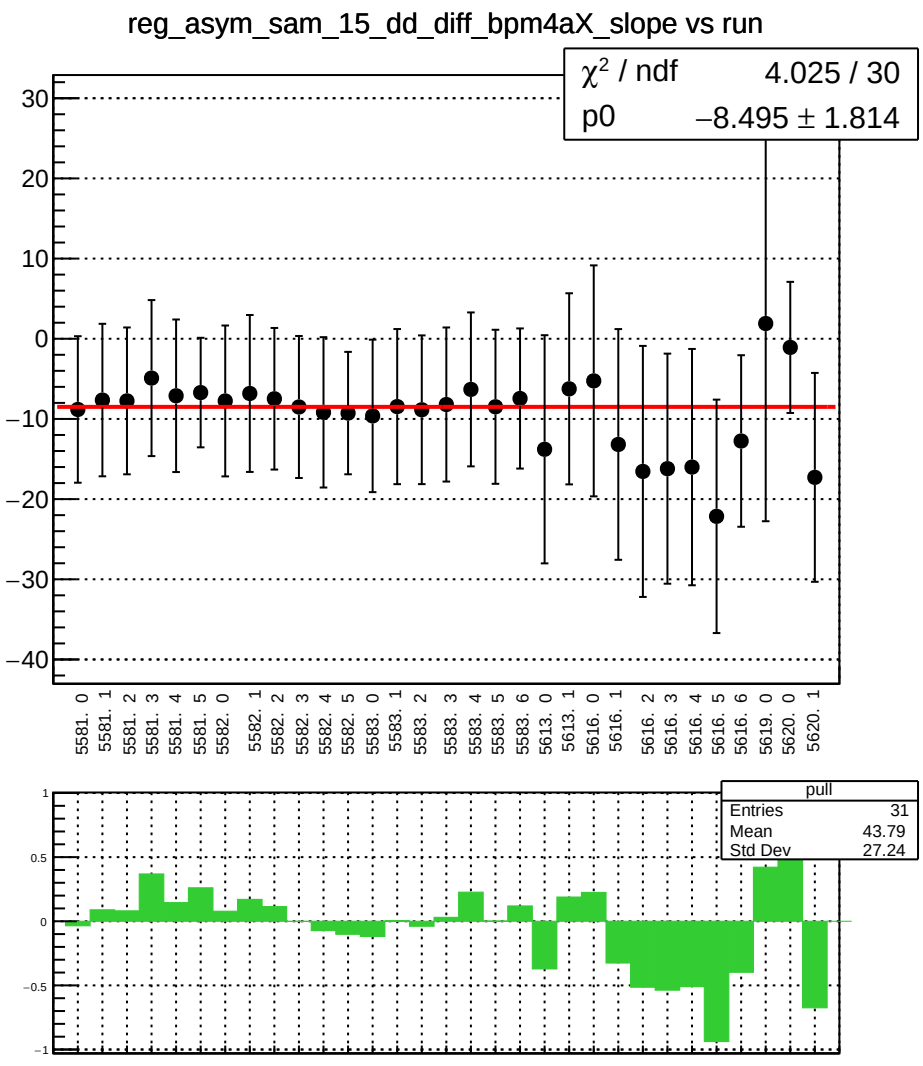

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 246.8 / 30
p0 −8.426 ± 0.327
pull
Entries 31
Mean 2.46
Std Dev 13.21
pull1D
Entries 31
Mean −0.9431
Std Dev 1.501

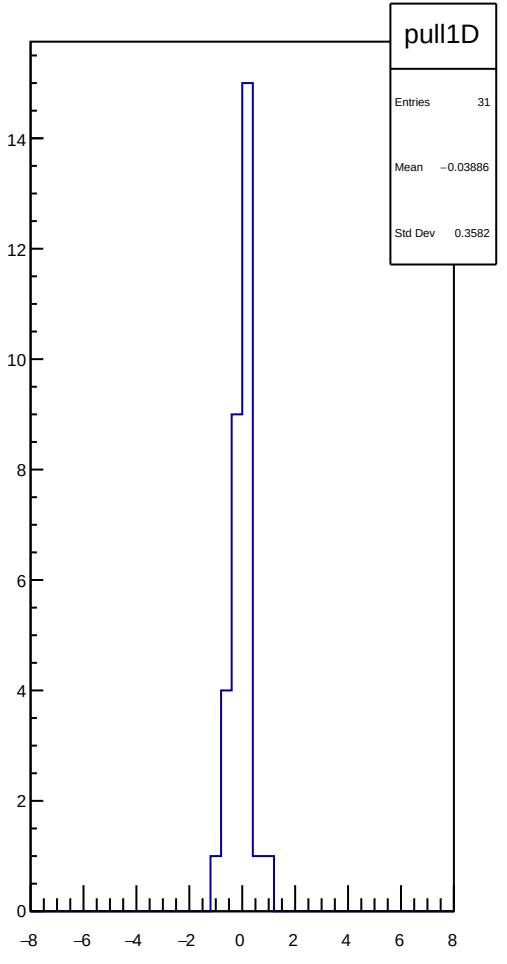

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 1710 / 30
p0 3.065 ± 0.5675
pull
Entries 31
Mean 28.05
Std Dev 6.563
pull1D
Entries 31
Mean −0.4511
Std Dev 1.25

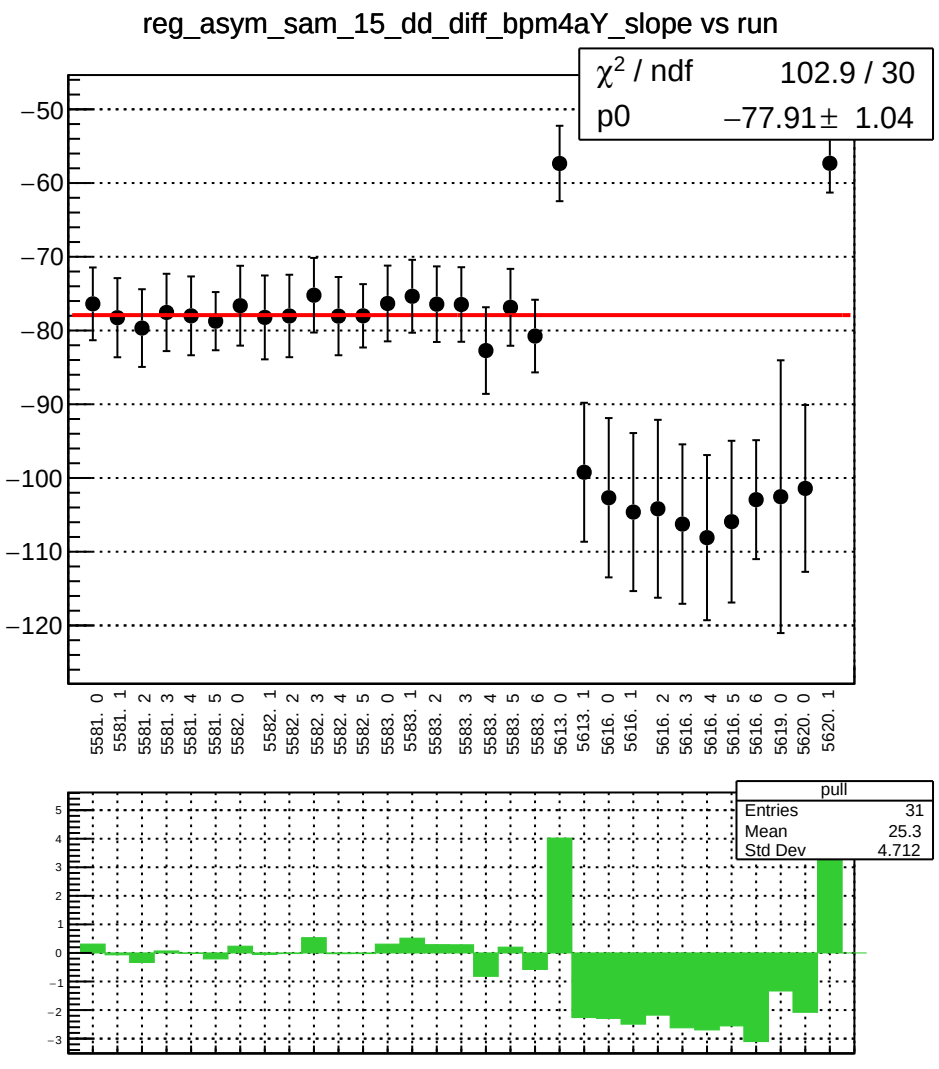

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 240.1 / 30
p0 −2.726 ± 0.4298
100
80
60
40
20
0
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 20.28
Std Dev 6.667
8
6
4
2
0
−2
−4
−6
−8
pull1D
Entries 31
Mean 0.9749
Std Dev 2.072
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

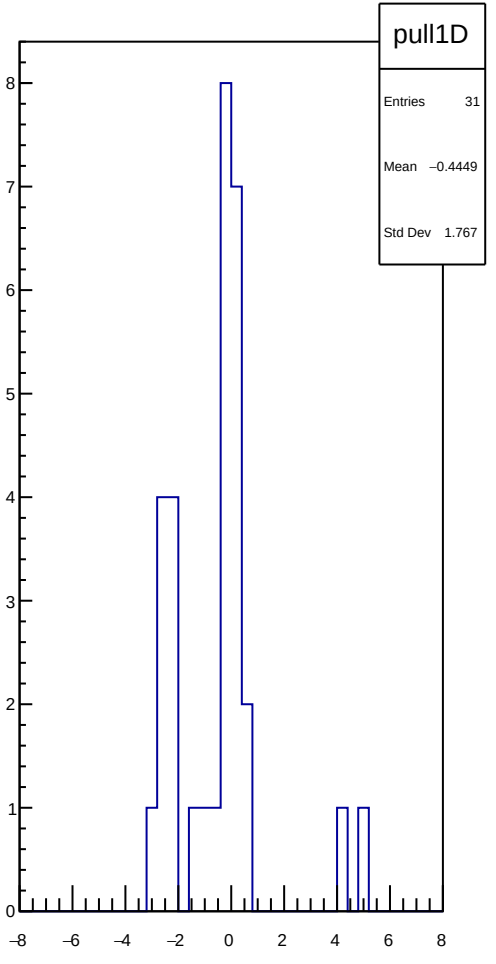

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 7783 / 30
p0 0.00782 ± 0.0166
0
−5
−10
−15
−20
−25
−30
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 30.99
Std Dev 10.7
5
0
−5
−10
−15
−20
−25
−30
−35
−40

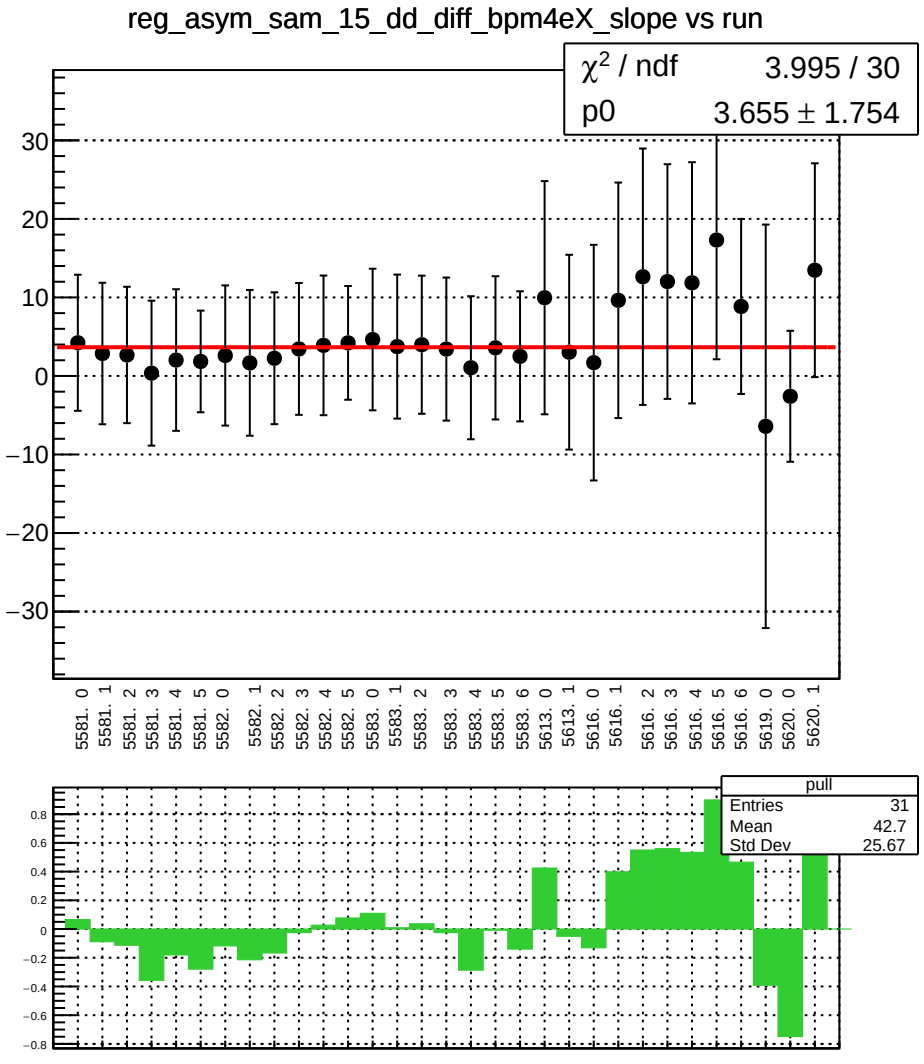

pull1D
Entries 31
Mean 2.853
Std Dev 2.423
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

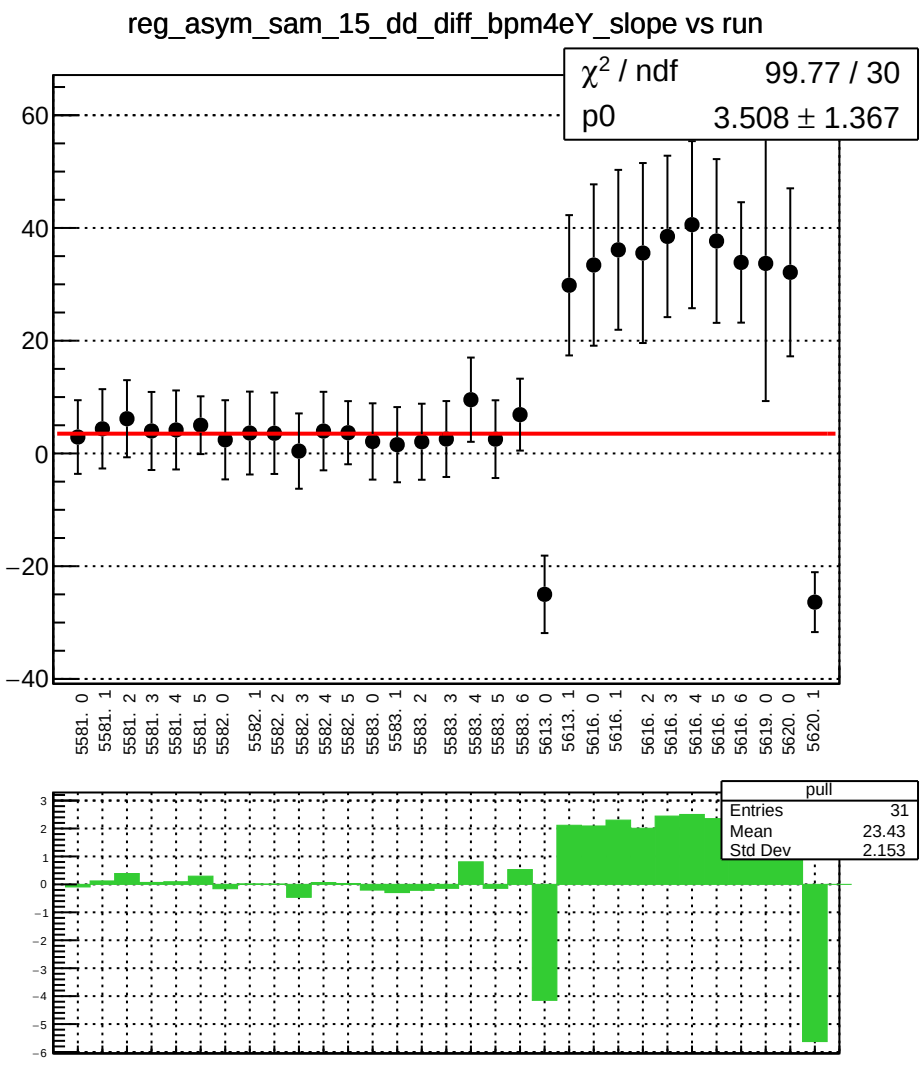

reg_asym_sam_15_dd_diff_bpm4aX_slope vs run
χ² / ndf 4.025 / 30
p0 −8.495 ± 1.814
30
20
10
0
−10
−20
−30
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 43.79
Std Dev 27.24
1
0.5
0
−0.5
−1

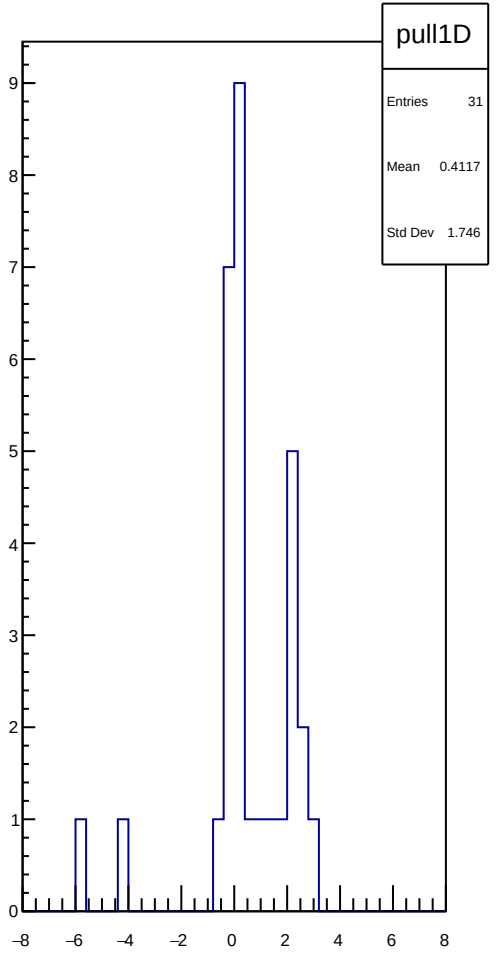

pull1D
Entries 31
Mean −0.03886
Std Dev 0.3582
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

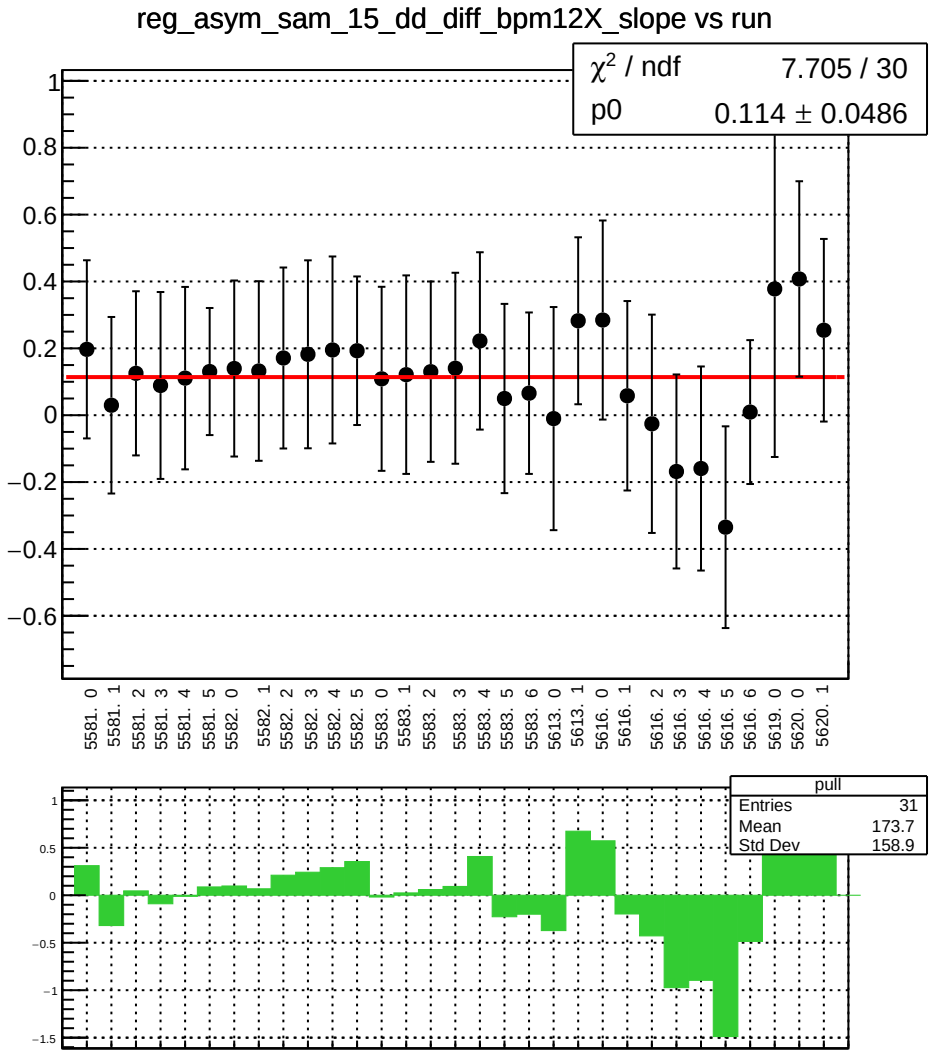

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 102.9 / 30
p0 −77.91± 1.04
−50
−60
−70
−80
−90
−100
−110
−120
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 25.3
Std Dev 4.712
5
4
3
2
1
0
−1
−2
−3

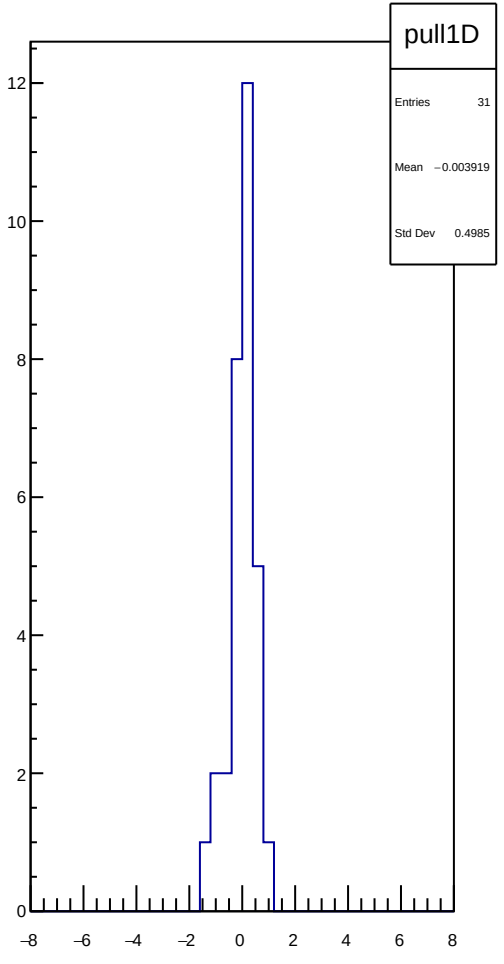

pull1D
Entries 31
Mean −0.4449
Std Dev 1.767
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

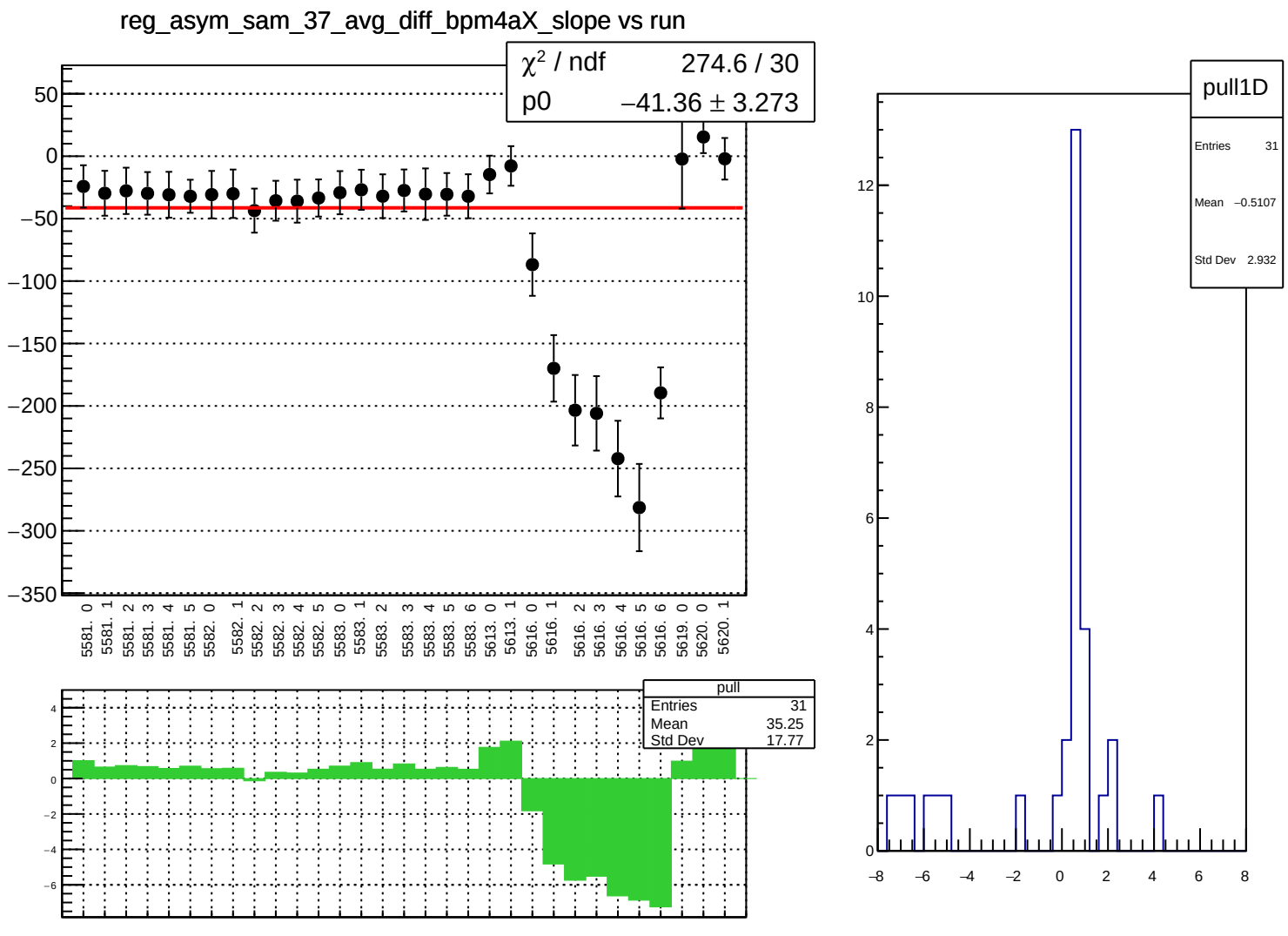

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.995 / 30
p0 3.655 ± 1.754
30
20
10
0
−10
−20
−30
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 42.7
Std Dev 25.67
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 31
Mean 0.05016
Std Dev 0.3554
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

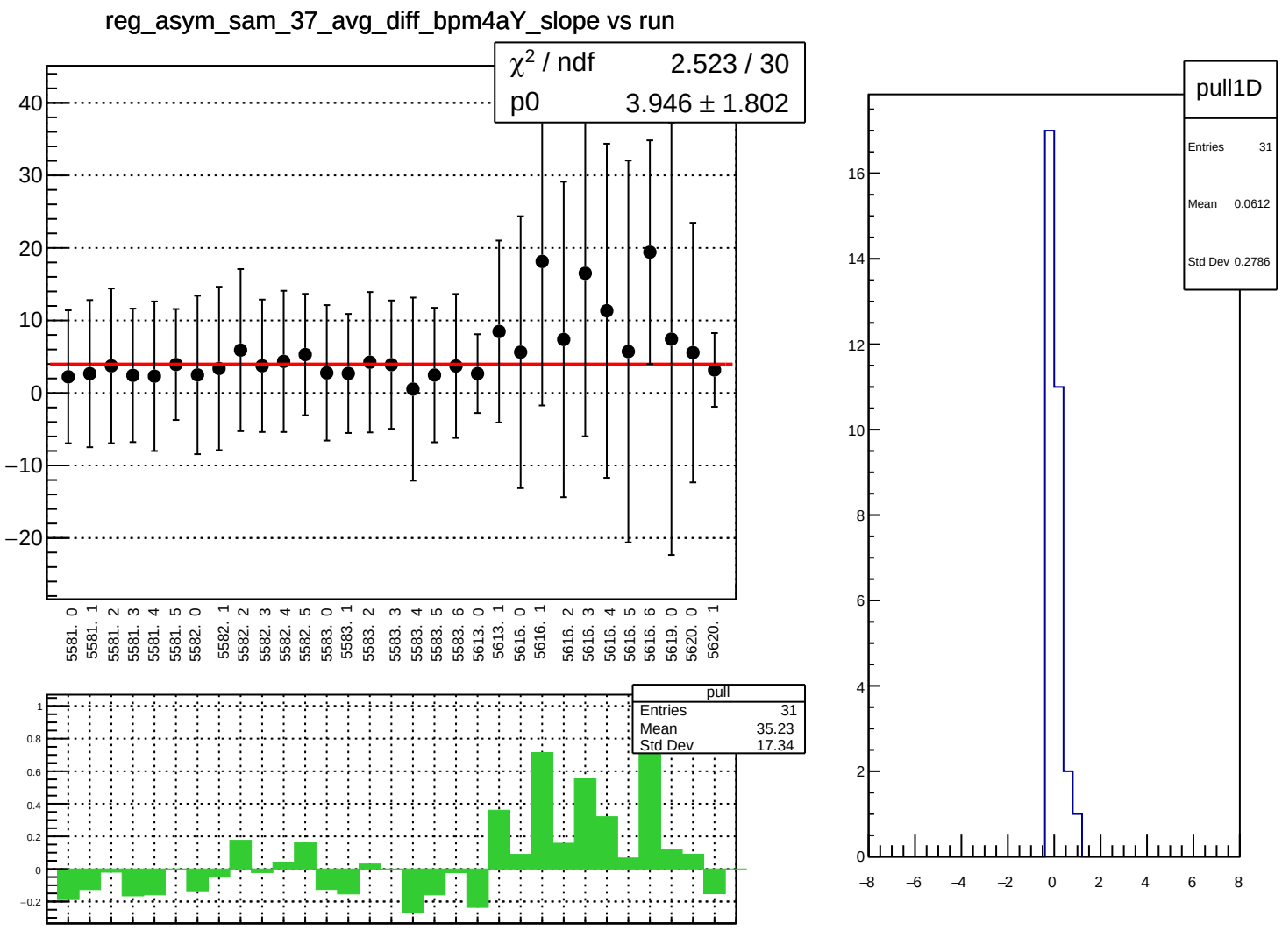

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 99.77 / 30
p0 3.508 ± 1.367
60
40
20
0
−20
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 23.43
Std Dev 2.153
3
2
1
0
−1
−2
−3
−4
−5
−6

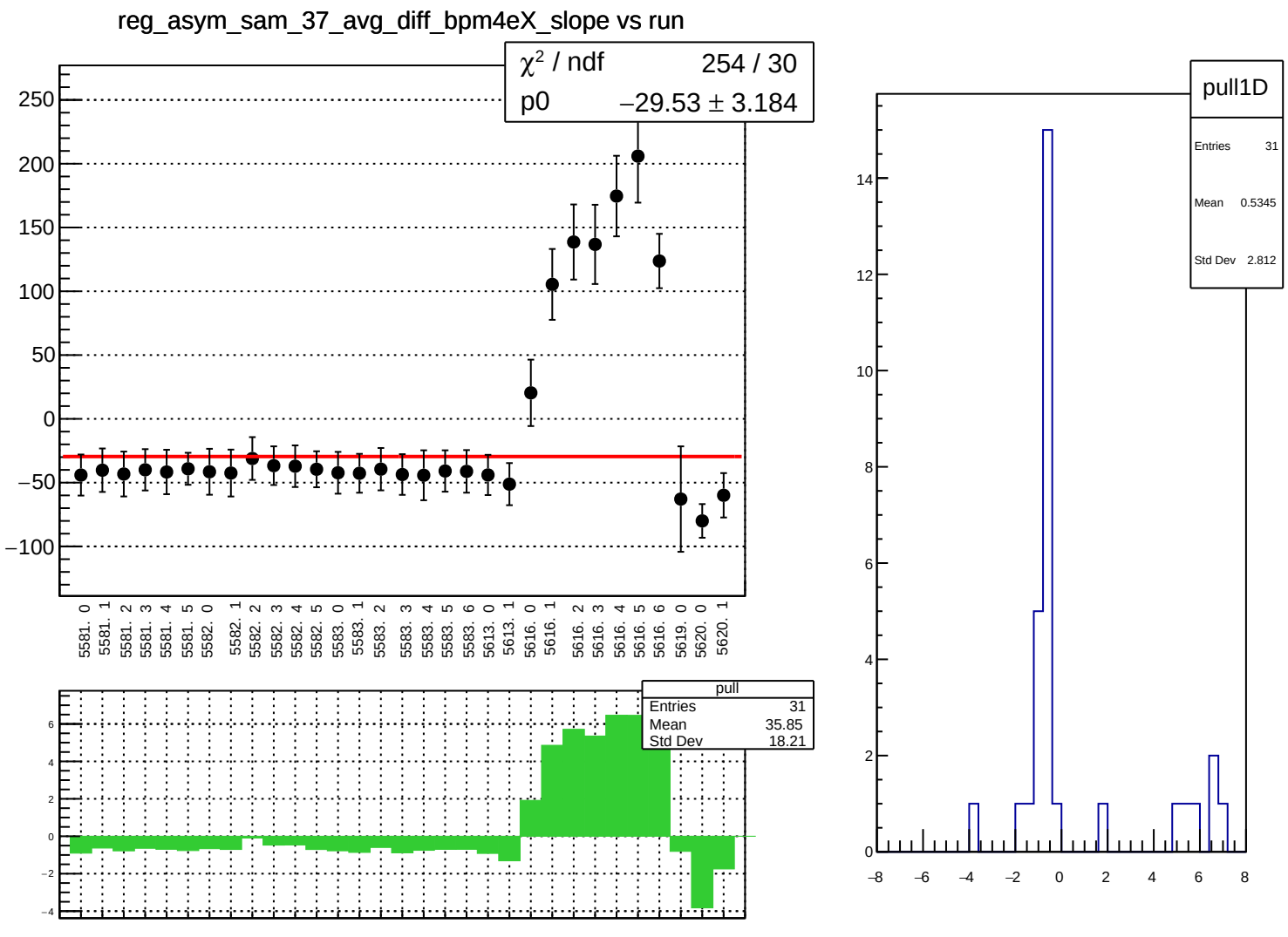

pull1D
Entries 31
Mean 0.4117
Std Dev 1.746
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

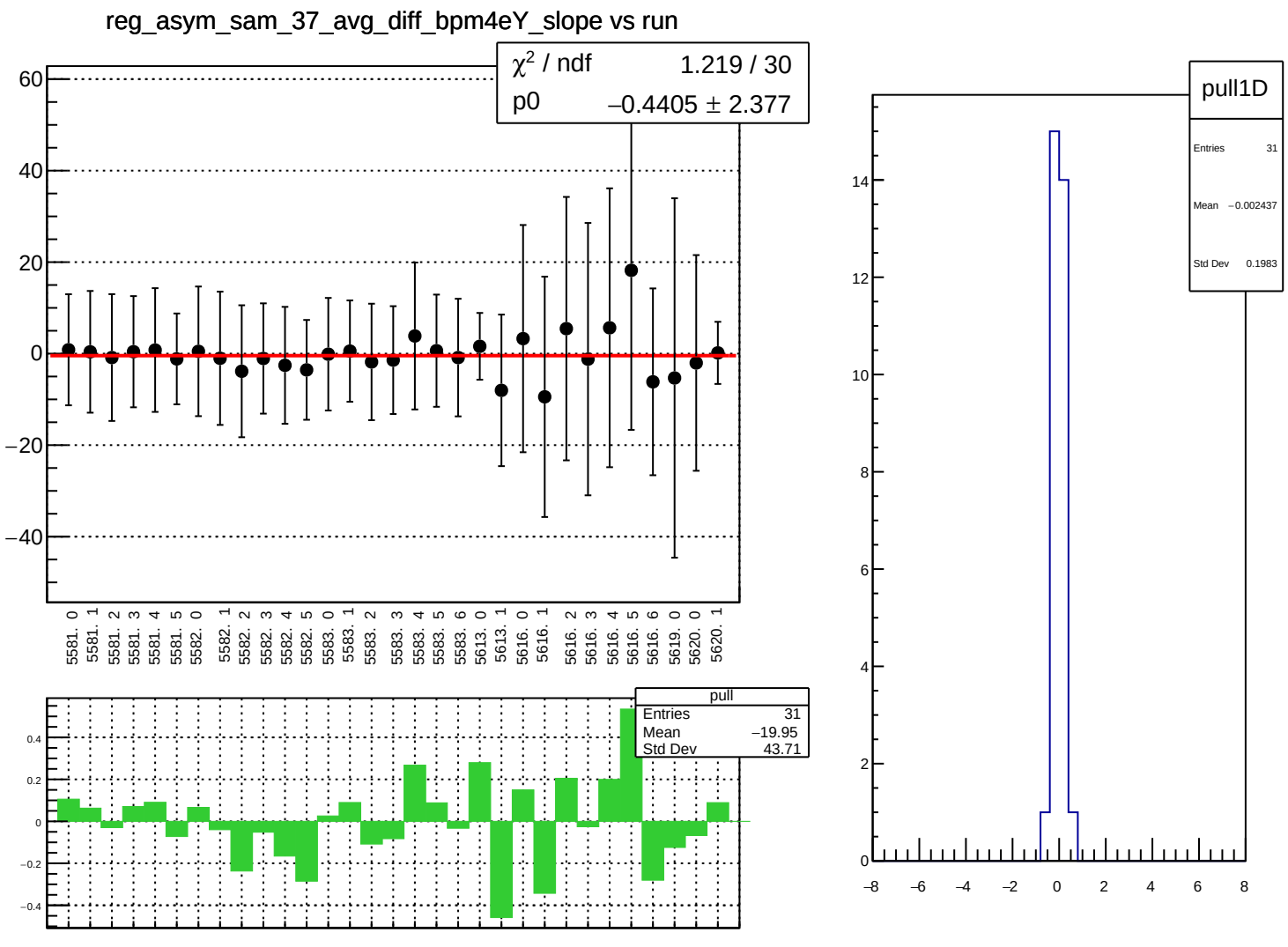

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 7.705 / 30
p0 0.114 ± 0.0486
pull
Entries 31
Mean 173.7
Std Dev 158.9

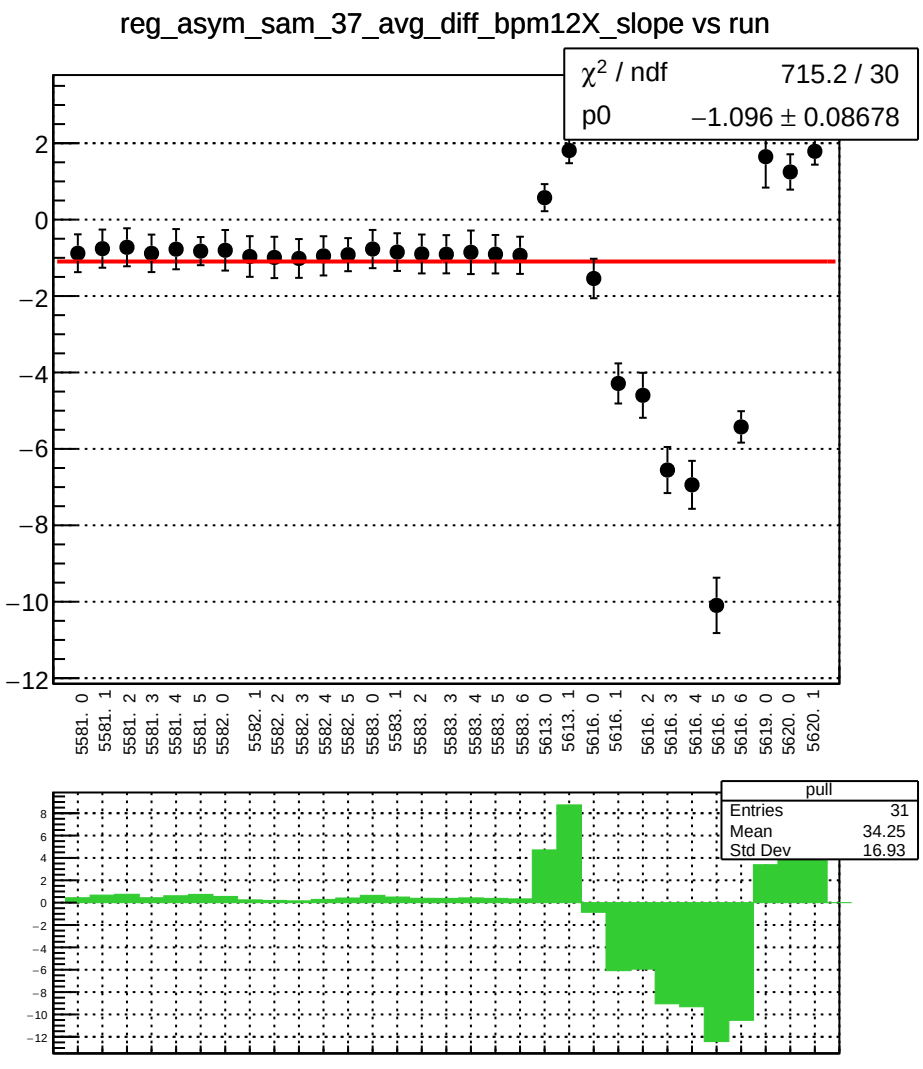

pull1D
Entries 31
Mean −0.003919
Std Dev 0.4985

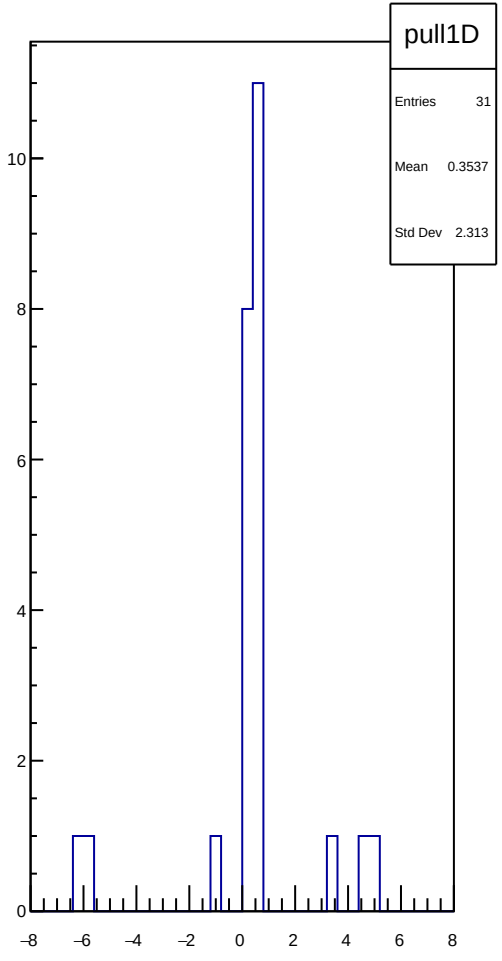

reg_asym_sam_37_avg_diff_bpm4aX_slope vs run
χ² / ndf 274.6 / 30
p0 −41.36 ± 3.273
50
0
−50
−100
−150
−200
−250
−300
−350
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 35.25
Std Dev 17.77
4
2
0
−2
−4
−6
pull1D
Entries 31
Mean −0.5107
Std Dev 2.932
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

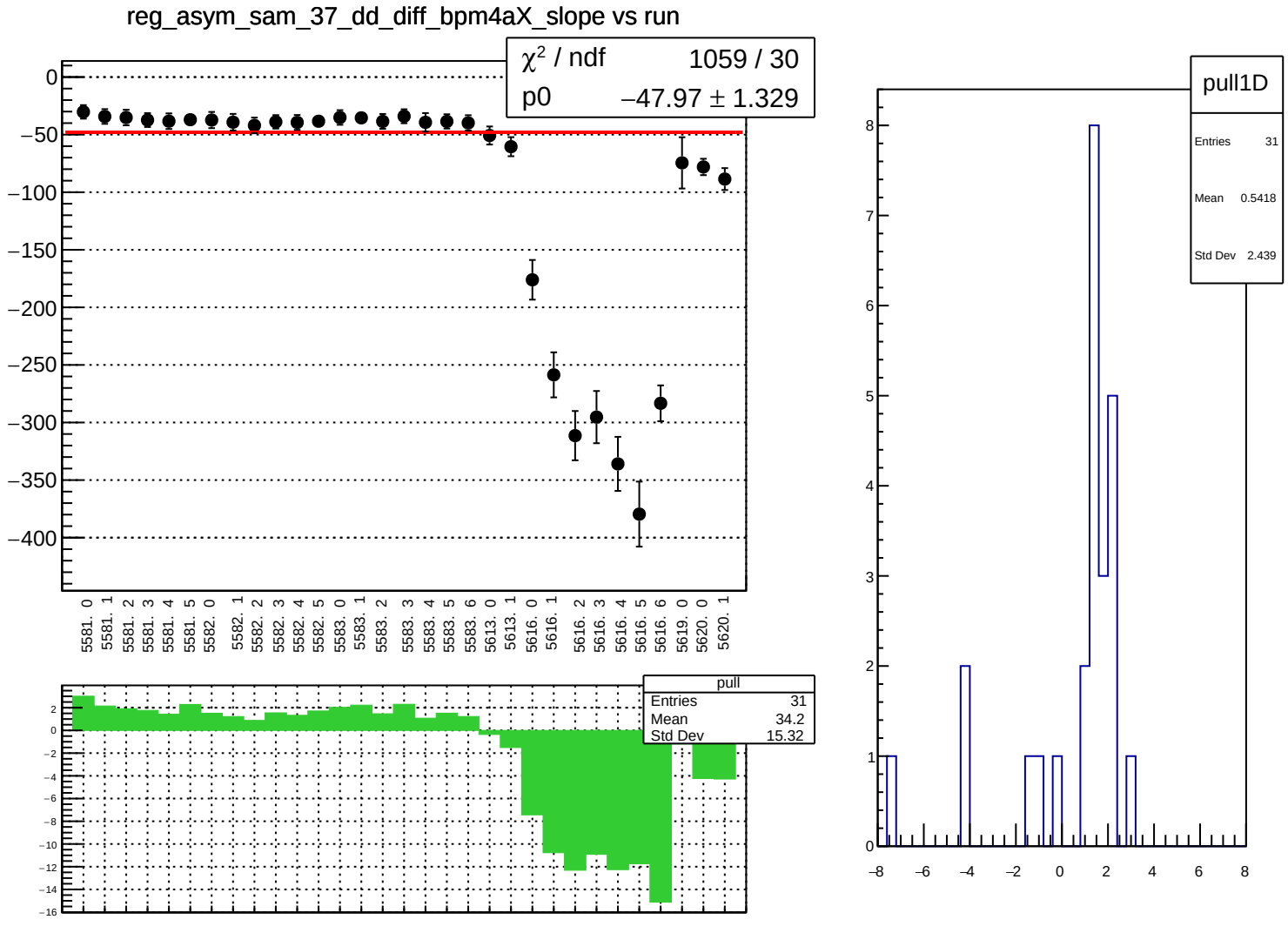

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.523 / 30
p0 3.946 ± 1.802
40
30
20
10
0
−10
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 35.23
Std Dev 17.34
1
0.8
0.6
0.4
0.2
0
−0.2
pull1D
Entries 31
Mean 0.0612
Std Dev 0.2786
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

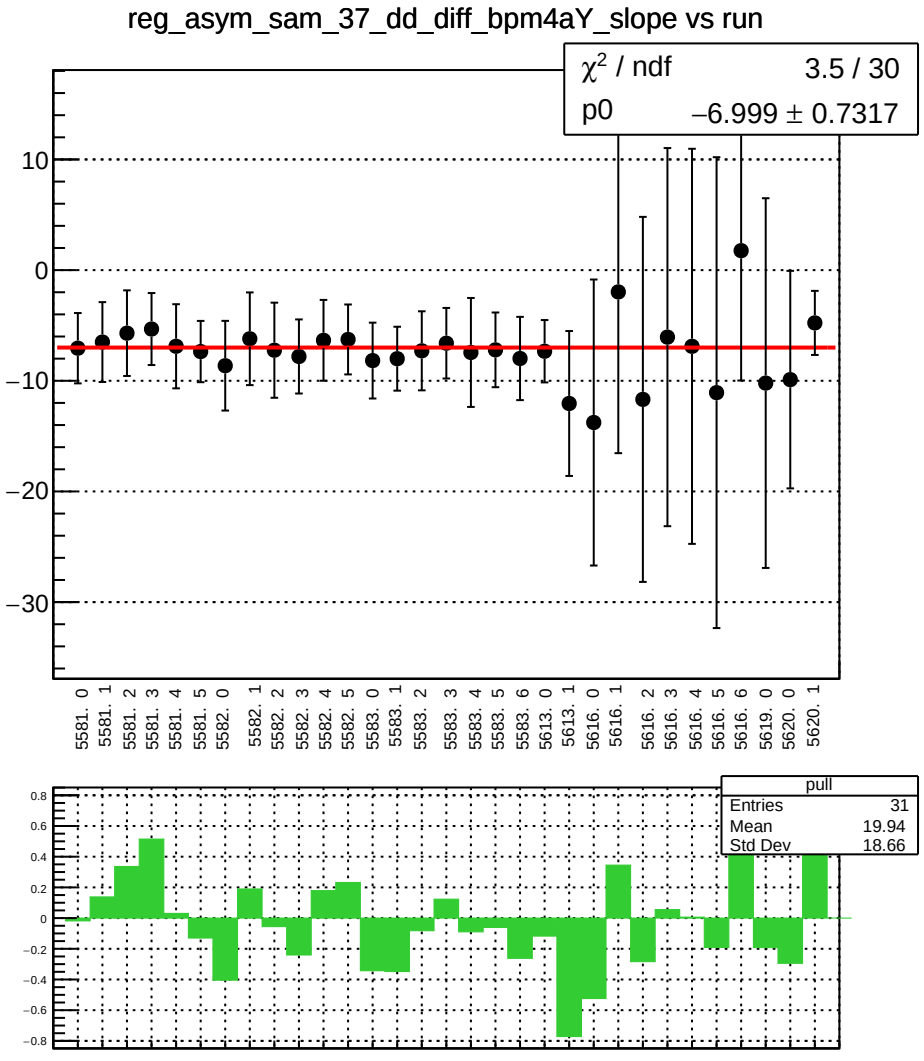

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 254 / 30
p0 −29.53 ± 3.184
250
200
150
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 35.85
Std Dev 18.21
6
4
2
0
−2
−4
pull1D
Entries 31
Mean 0.5345
Std Dev 2.812
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

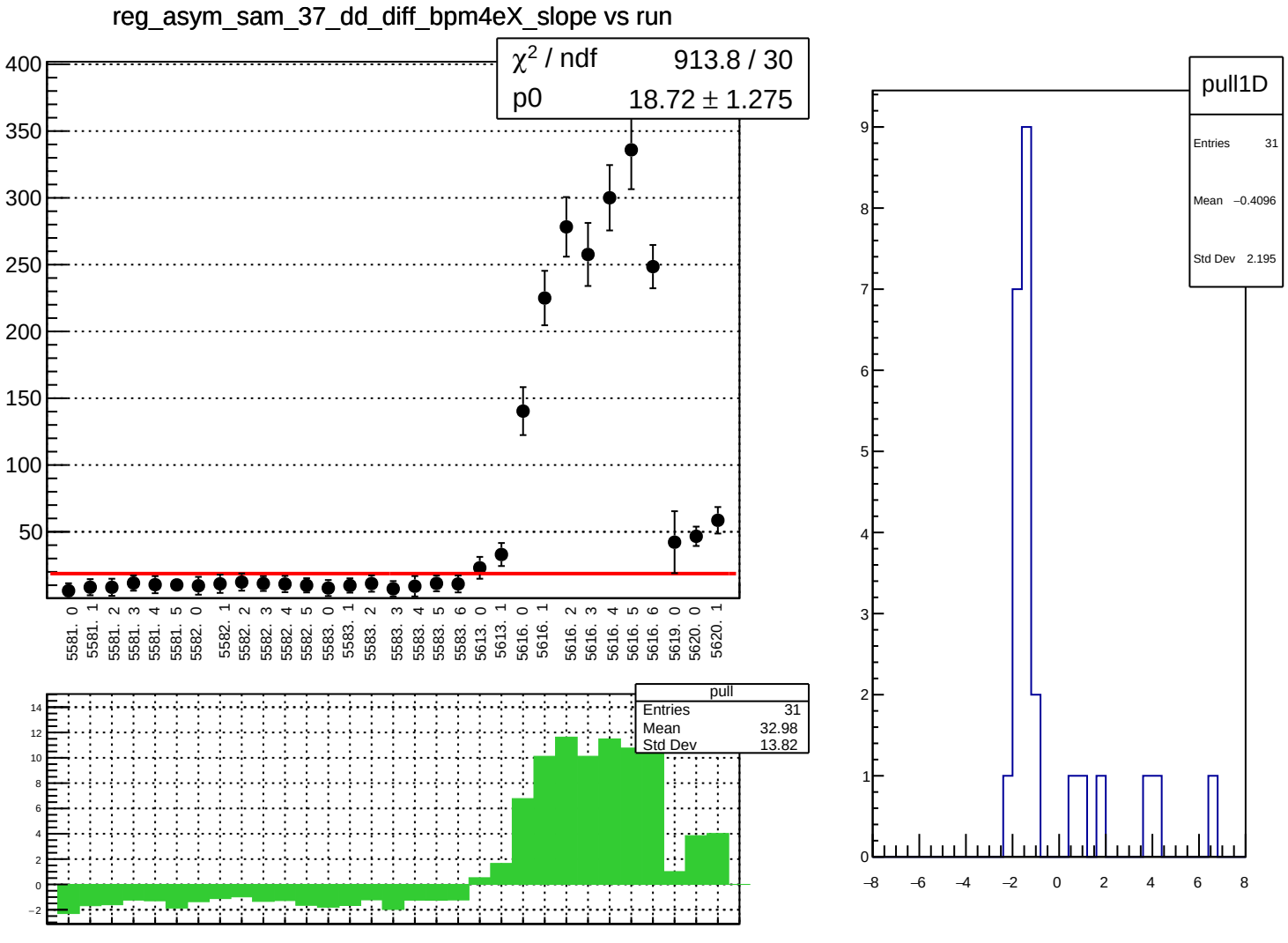

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.219 / 30
p0 −0.4405 ± 2.377
60
40
20
0
−20
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −19.95
Std Dev 43.71
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 31
Mean −0.002437
Std Dev 0.1983
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

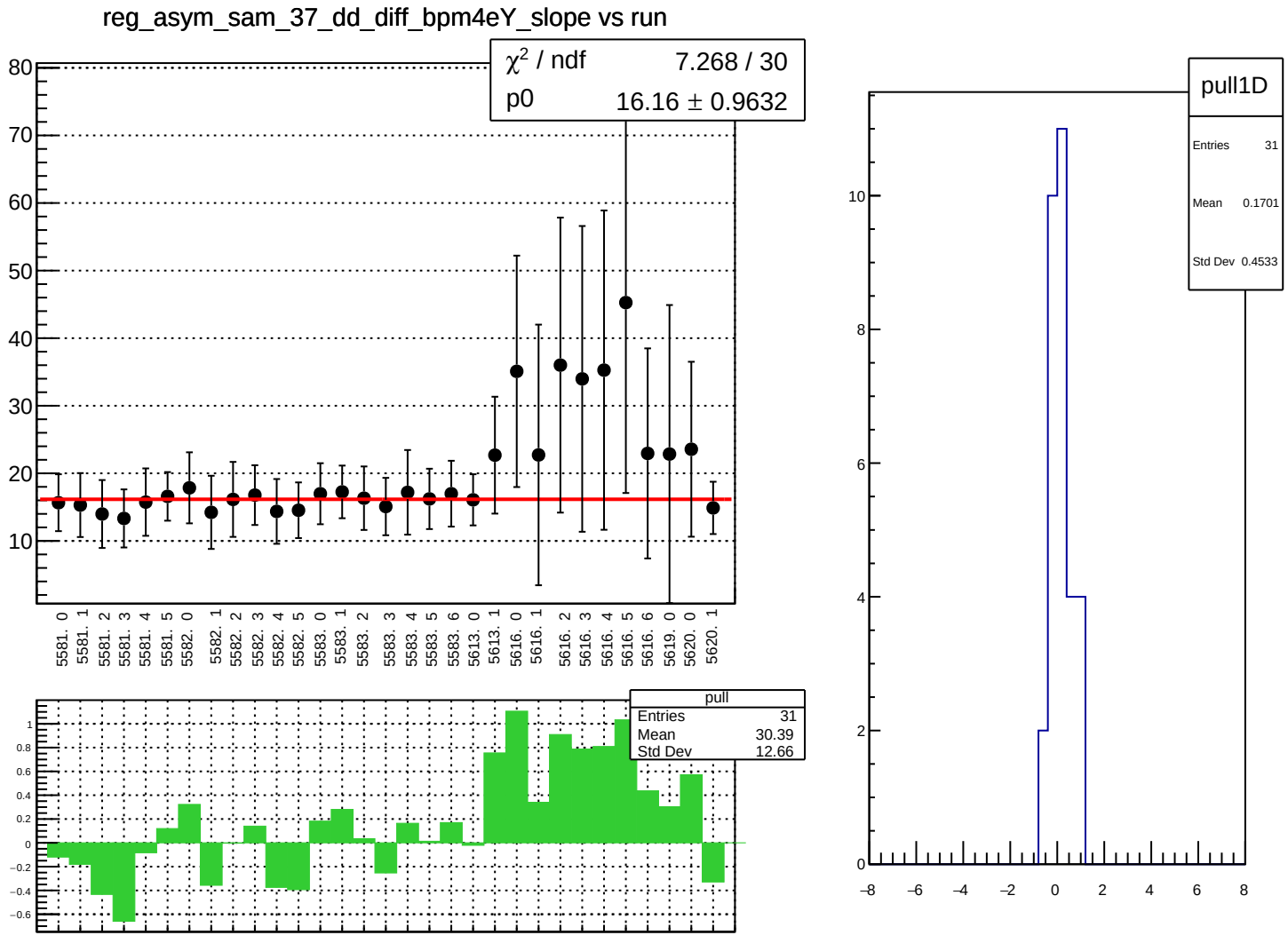

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 715.2 / 30
p0 −1.096 ± 0.08678
pull
Entries 31
Mean 34.25
Std Dev 16.93

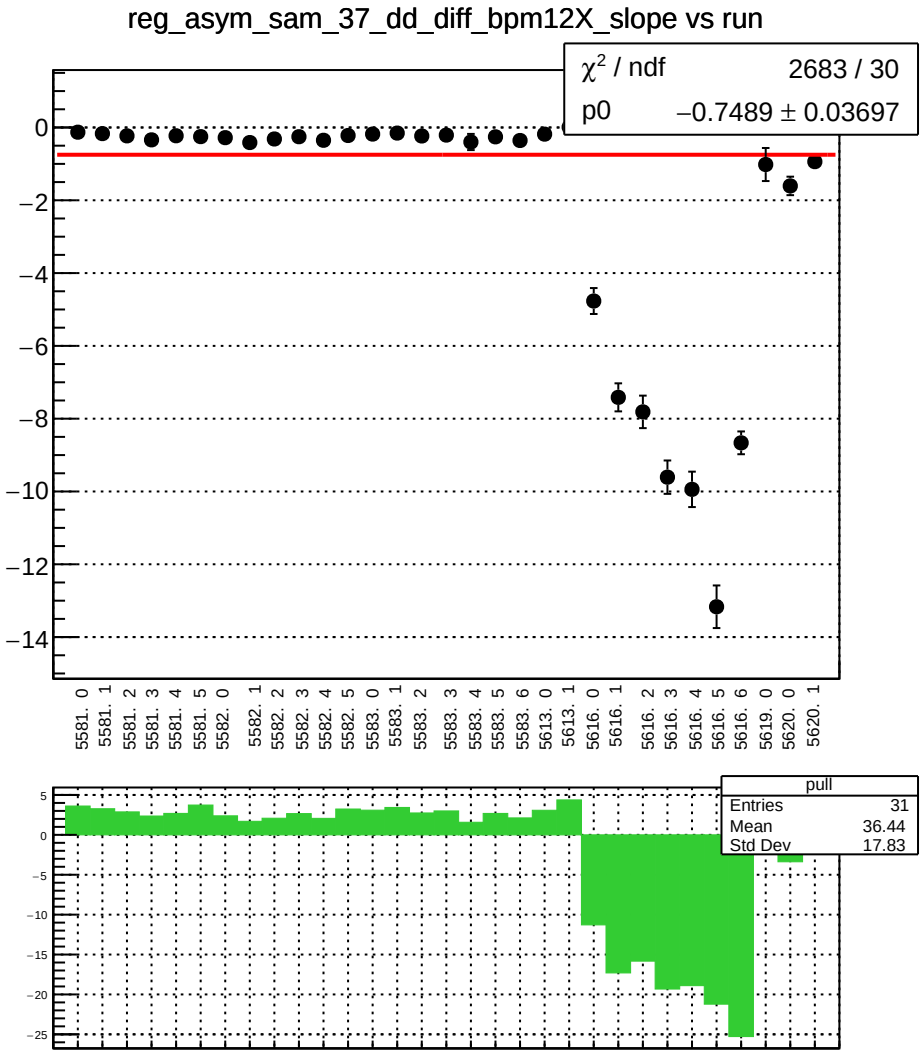

pull1D
Entries 31
Mean 0.3537
Std Dev 2.313

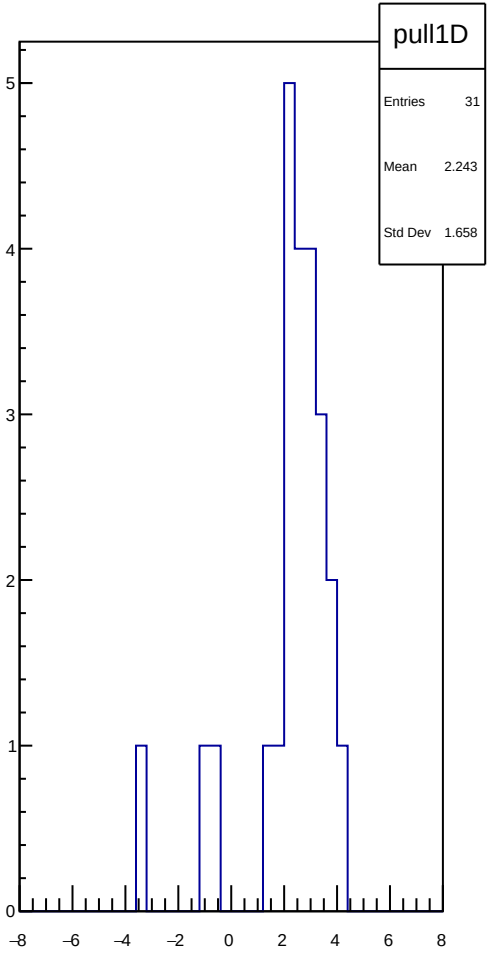

reg_asym_sam_37_dd_diff_bpm4aX_slope vs run
χ² / ndf 1059 / 30
p0 −47.97 ± 1.329
0
−50
−100
−150
−200
−250
−300
−350
−400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 34.2
Std Dev 15.32
2
0
−2
−4
−6
−8
−10
−12
−14
−16
pull1D
Entries 31
Mean 0.5418
Std Dev 2.439
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

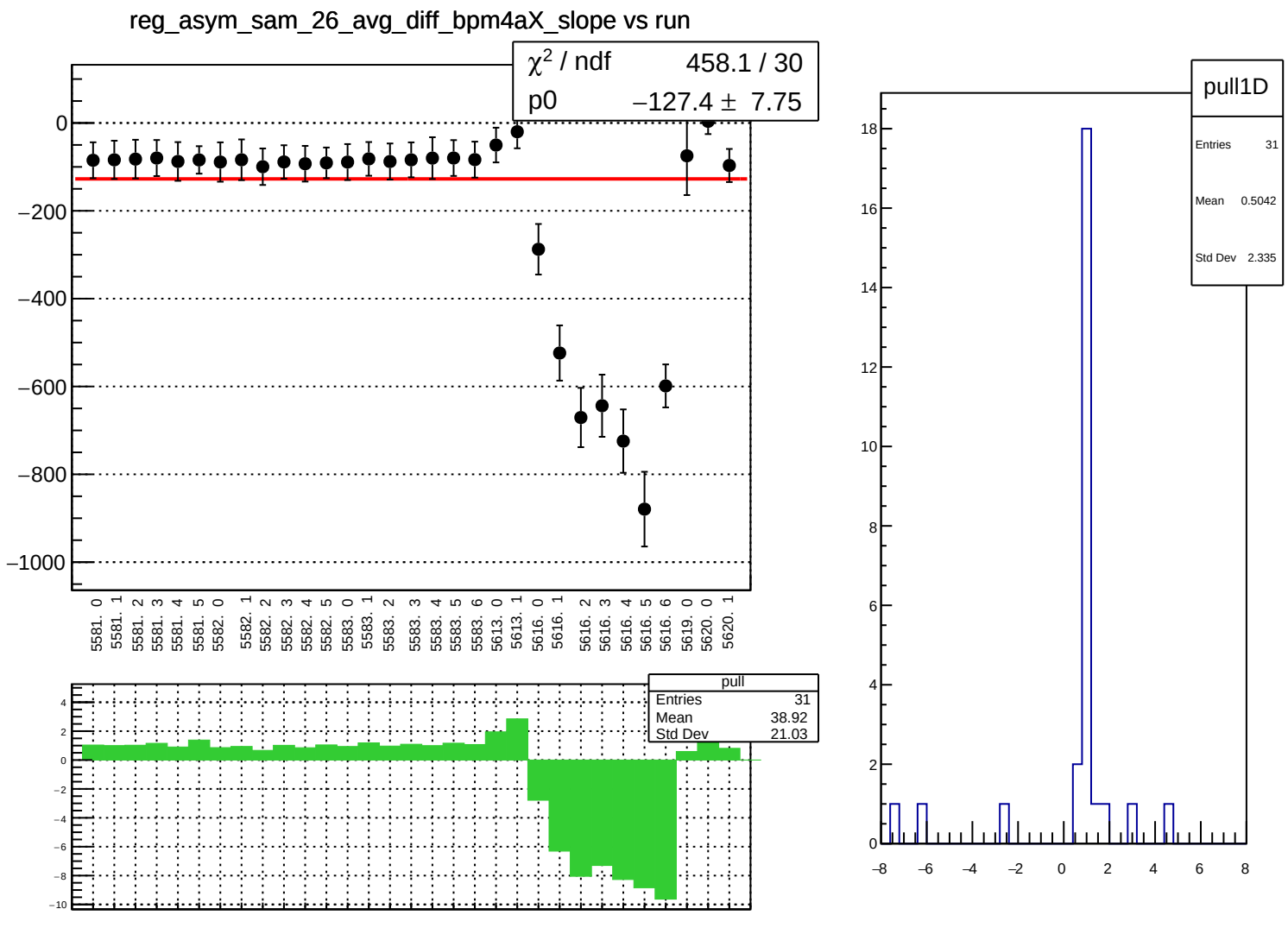

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.5 / 30
p0 −6.999 ± 0.7317
10
0
−10
−20
−30
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 19.94
Std Dev 18.66
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 31
Mean −0.02401
Std Dev 0.3352
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

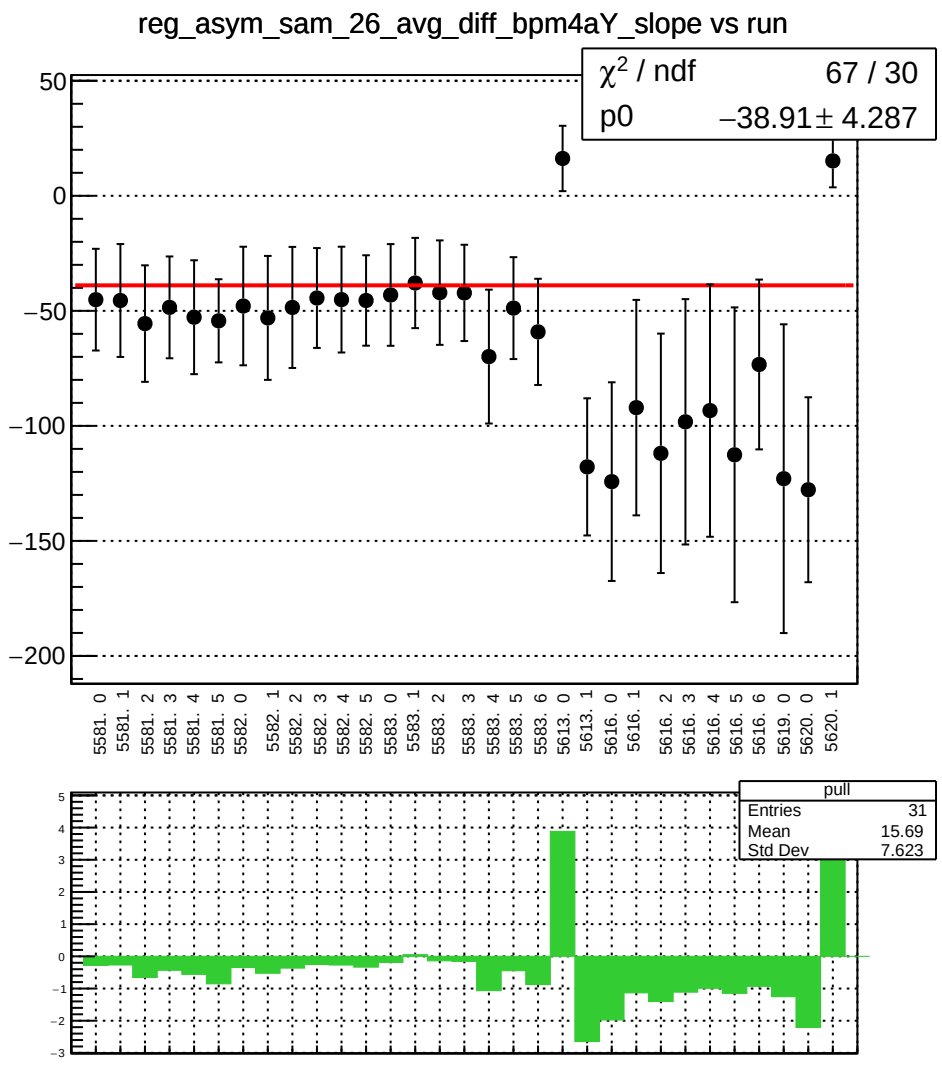

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 913.8 / 30
p0 18.72 ± 1.275
400
350
300
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 32.98
Std Dev 13.82
14
12
10
8
6
4
2
0
−2
pull1D
Entries 31
Mean −0.4096
Std Dev 2.195
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

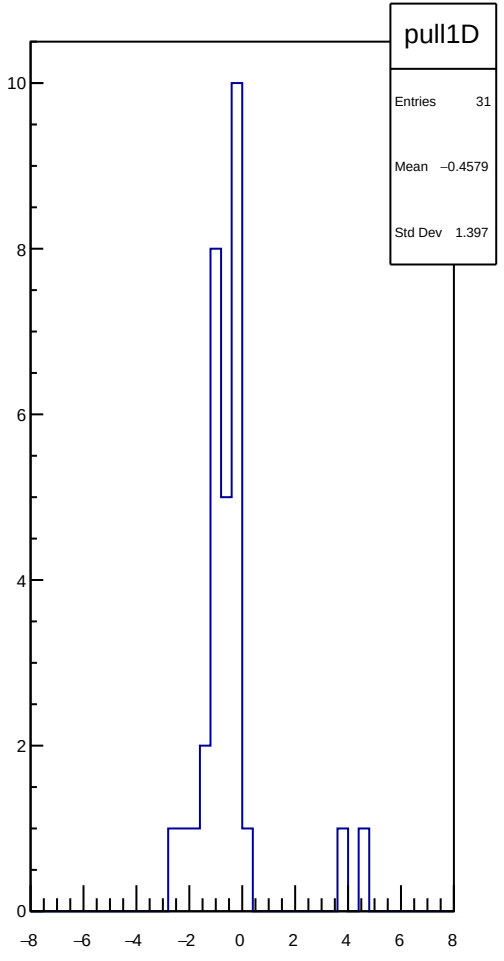

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.268 / 30
p0 16.16 ± 0.9632
80
70
60
50
40
30
20
10
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 30.39
Std Dev 12.66
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 31
Mean 0.1701
Std Dev 0.4533
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

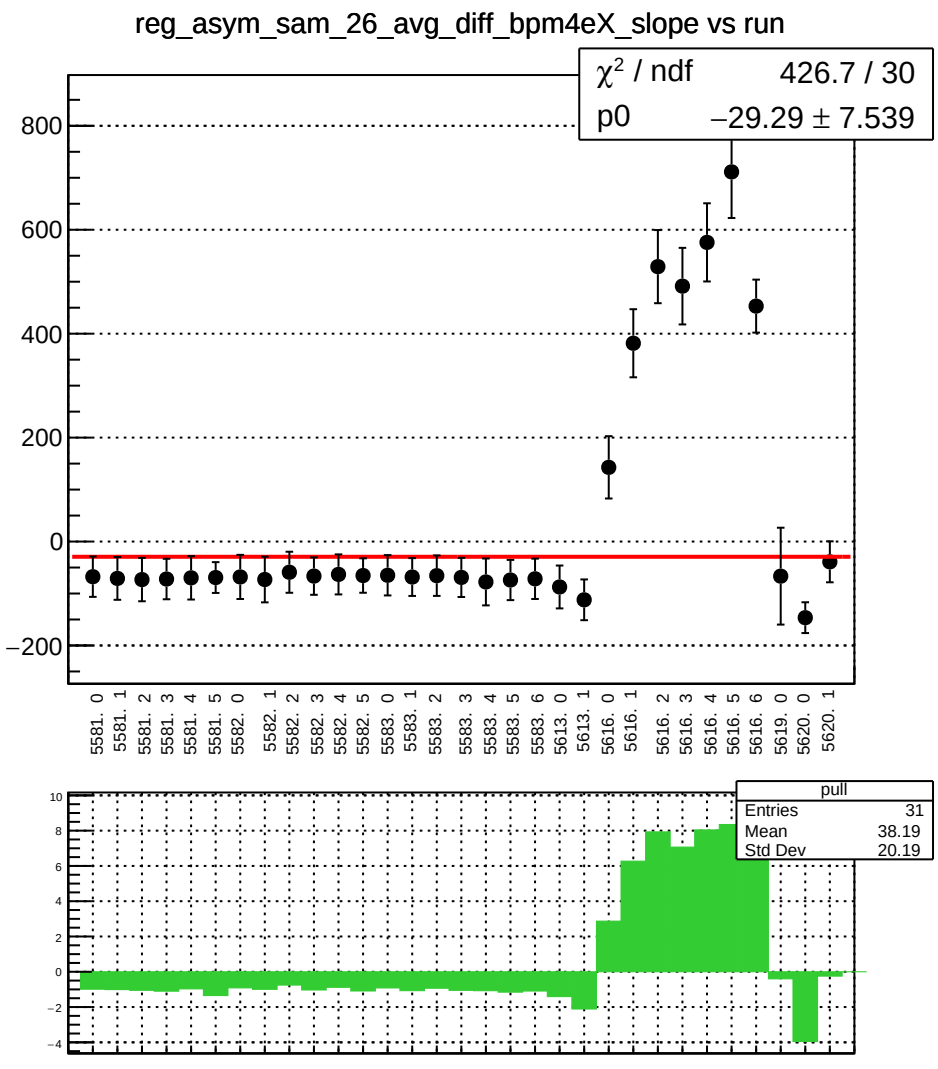

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 2683 / 30
p0 −0.7489 ± 0.03697
0
−2
−4
−6
−8
−10
−12
−14
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 36.44
Std Dev 17.83
5
0
−5
−10
−15
−20
−25

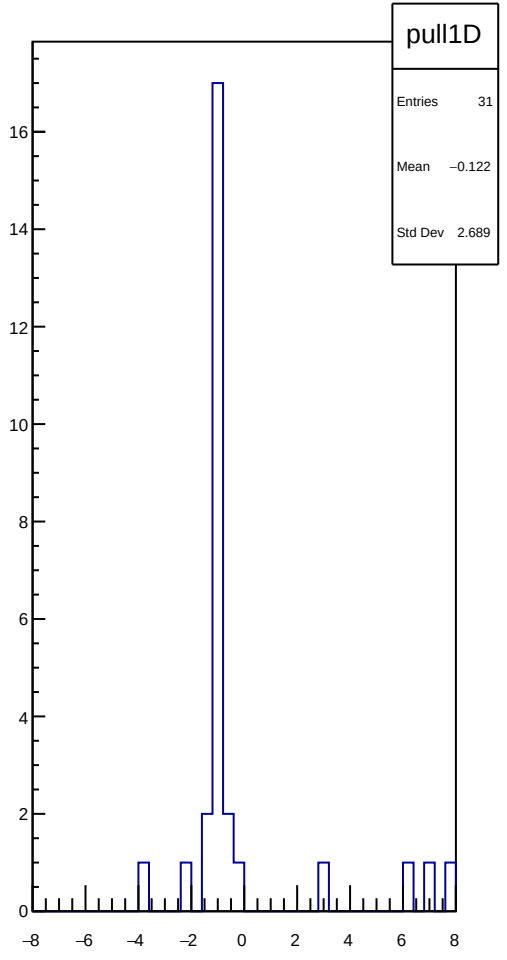

pull1D
Entries 31
Mean 2.243
Std Dev 1.658
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

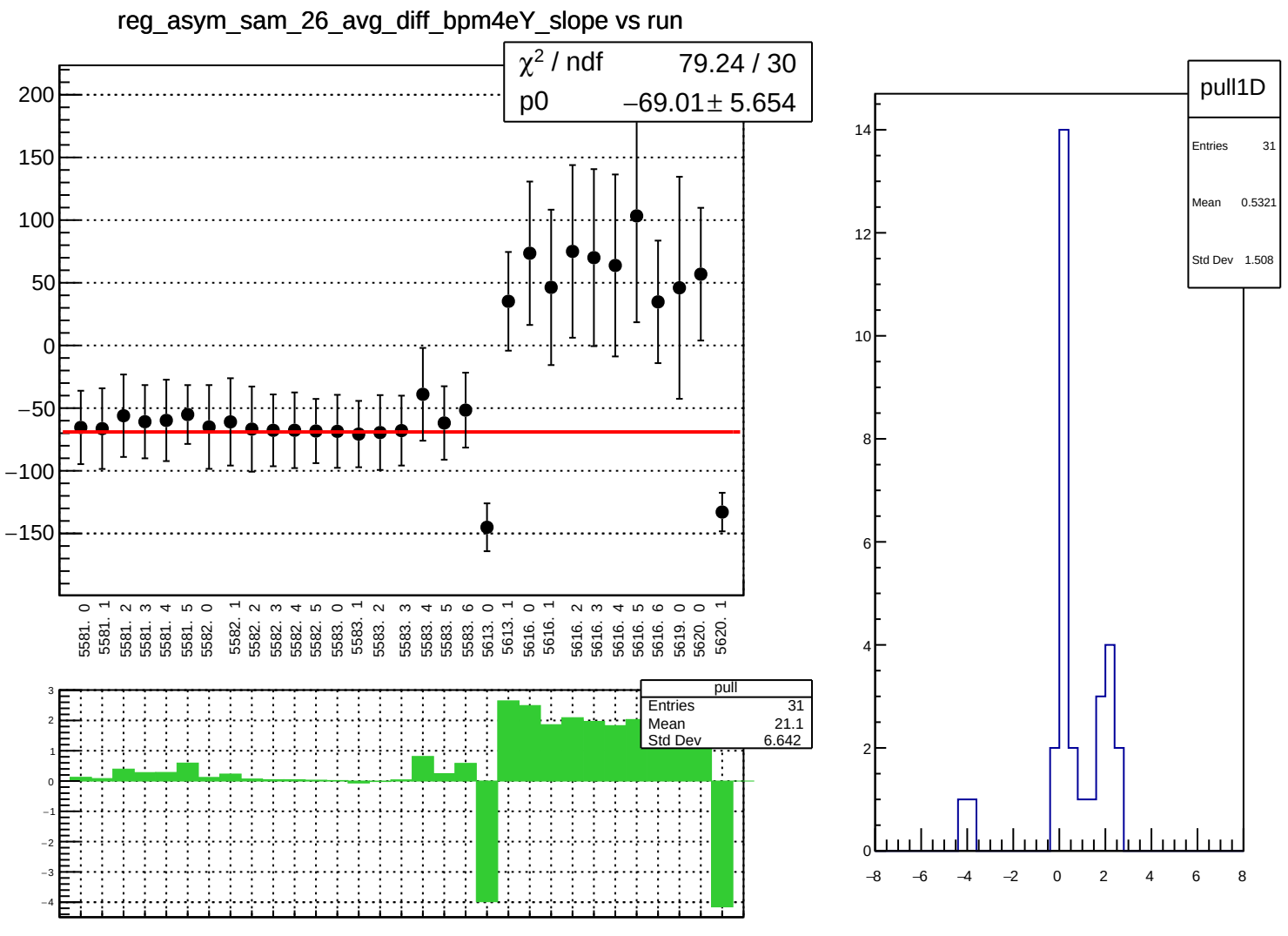

reg_asym_sam_26_avg_diff_bpm4aX_slope vs run
χ² / ndf 458.1 / 30
p0 −127.4 ± 7.75
0
−200
−400
−600
−800
−1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 38.92
Std Dev 21.03
4
2
0
−2
−4
−6
−8
−10
pull1D
Entries 31
Mean 0.5042
Std Dev 2.335
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

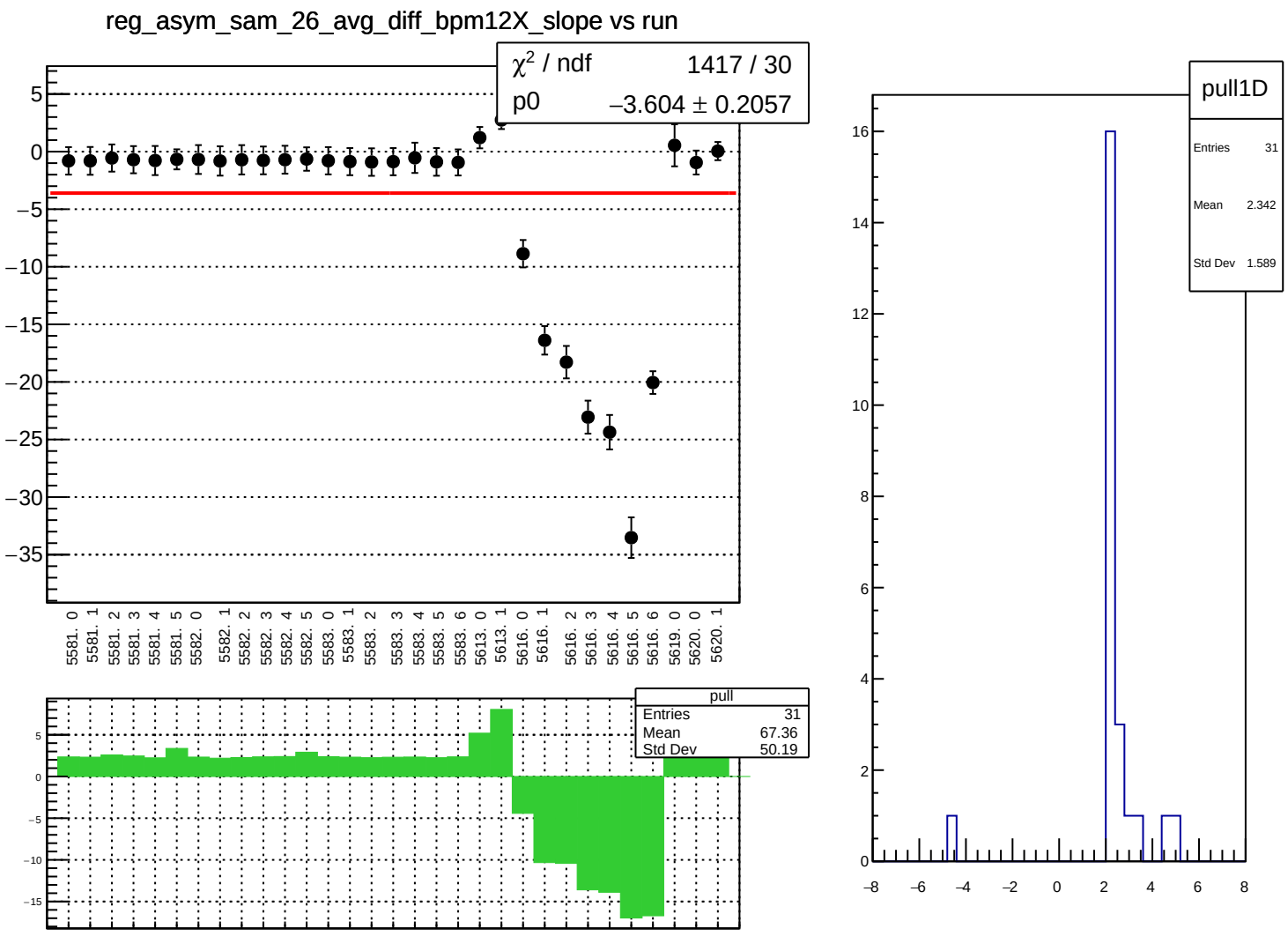

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 67 / 30
p0 −38.91 ± 4.287
50
0
−50
−100
−150
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 15.69
Std Dev 7.623
5
4
3
2
1
0
−1
−2
−3

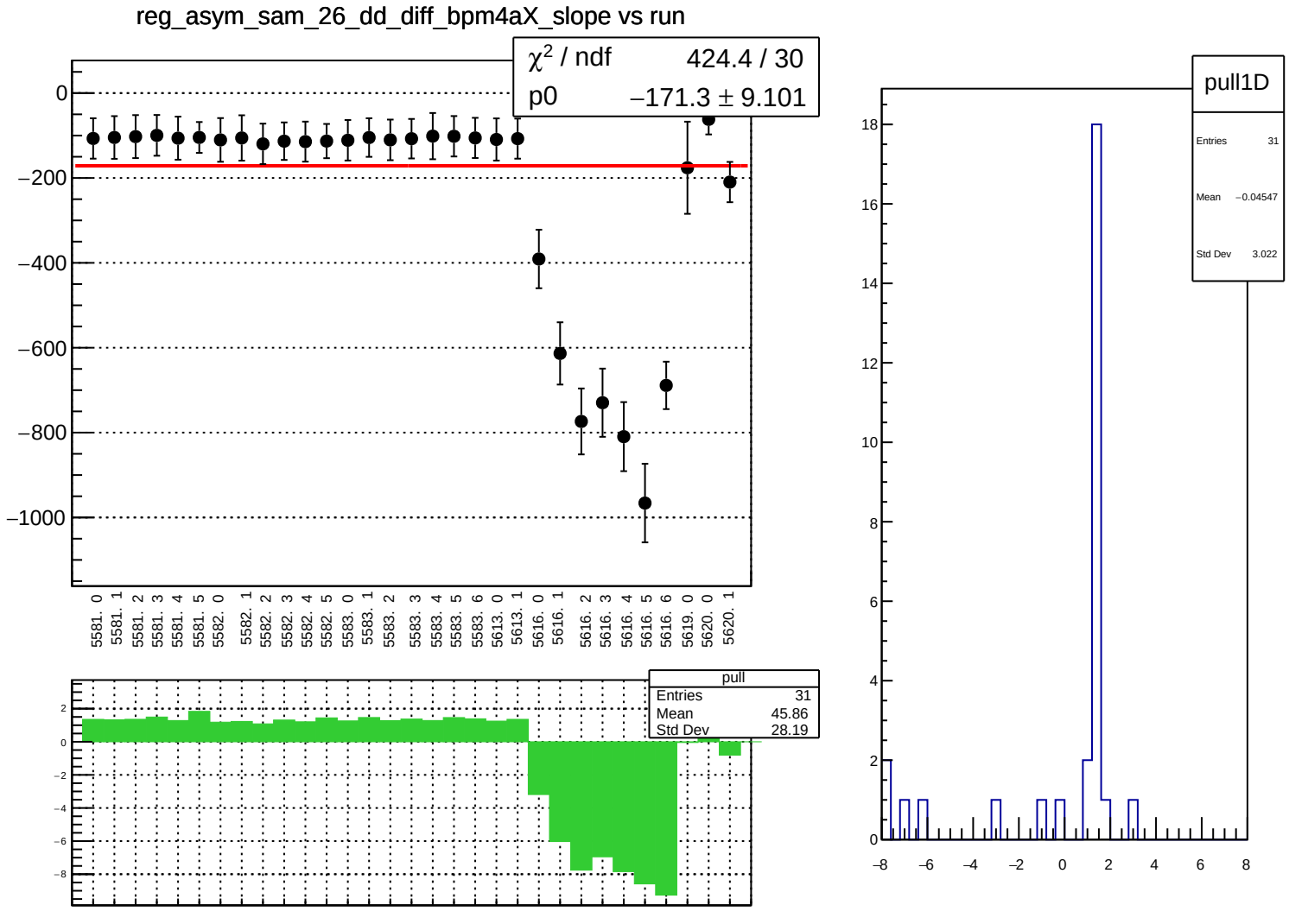

pull1D
Entries 31
Mean −0.4579
Std Dev 1.397
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

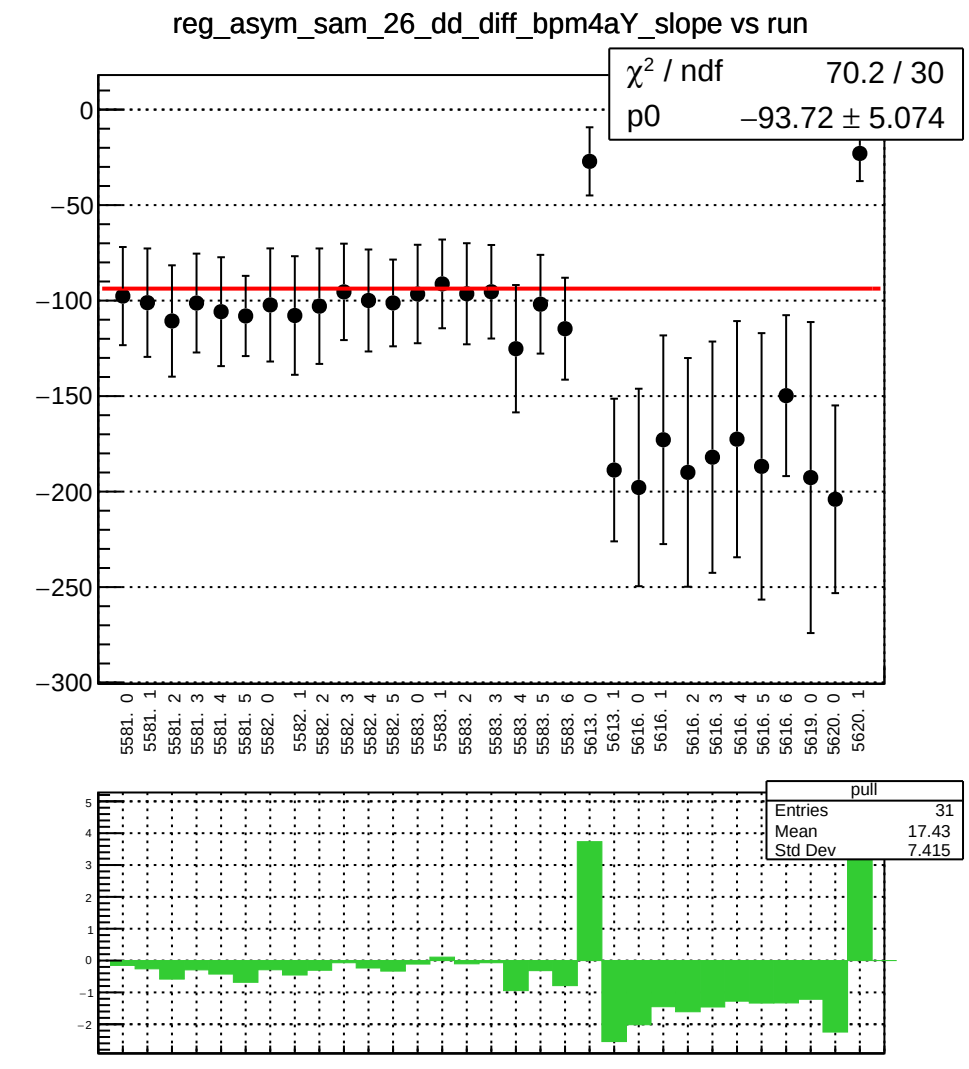

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 426.7 / 30
p0 −29.29 ± 7.539
800
600
400
200
0
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 38.19
Std Dev 20.19
10
8
6
4
2
0
−2
−4

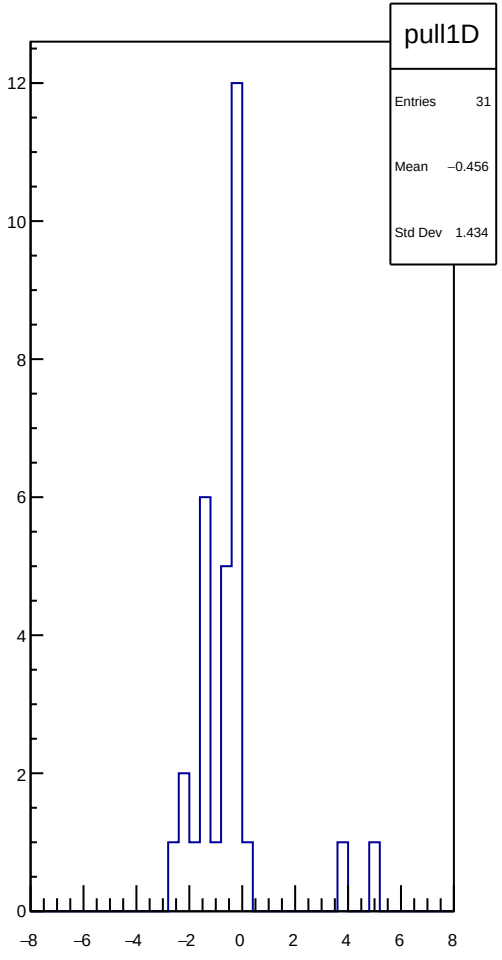

pull1D
Entries 31
Mean −0.122
Std Dev 2.689
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

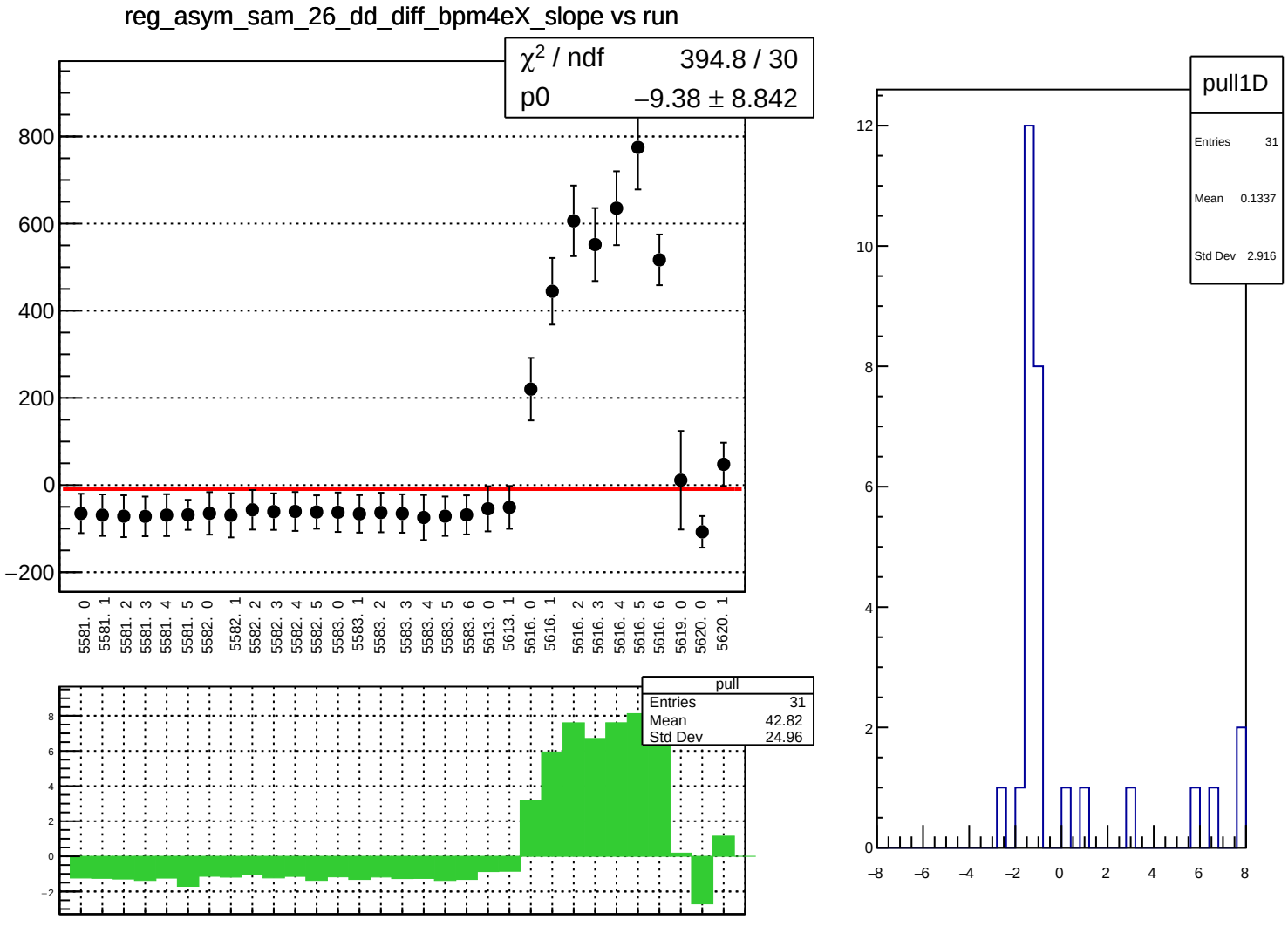

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 79.24 / 30
p0 −69.01 ± 5.654
200
150
100
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 21.1
Std Dev 6.642
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 31
Mean 0.5321
Std Dev 1.508
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

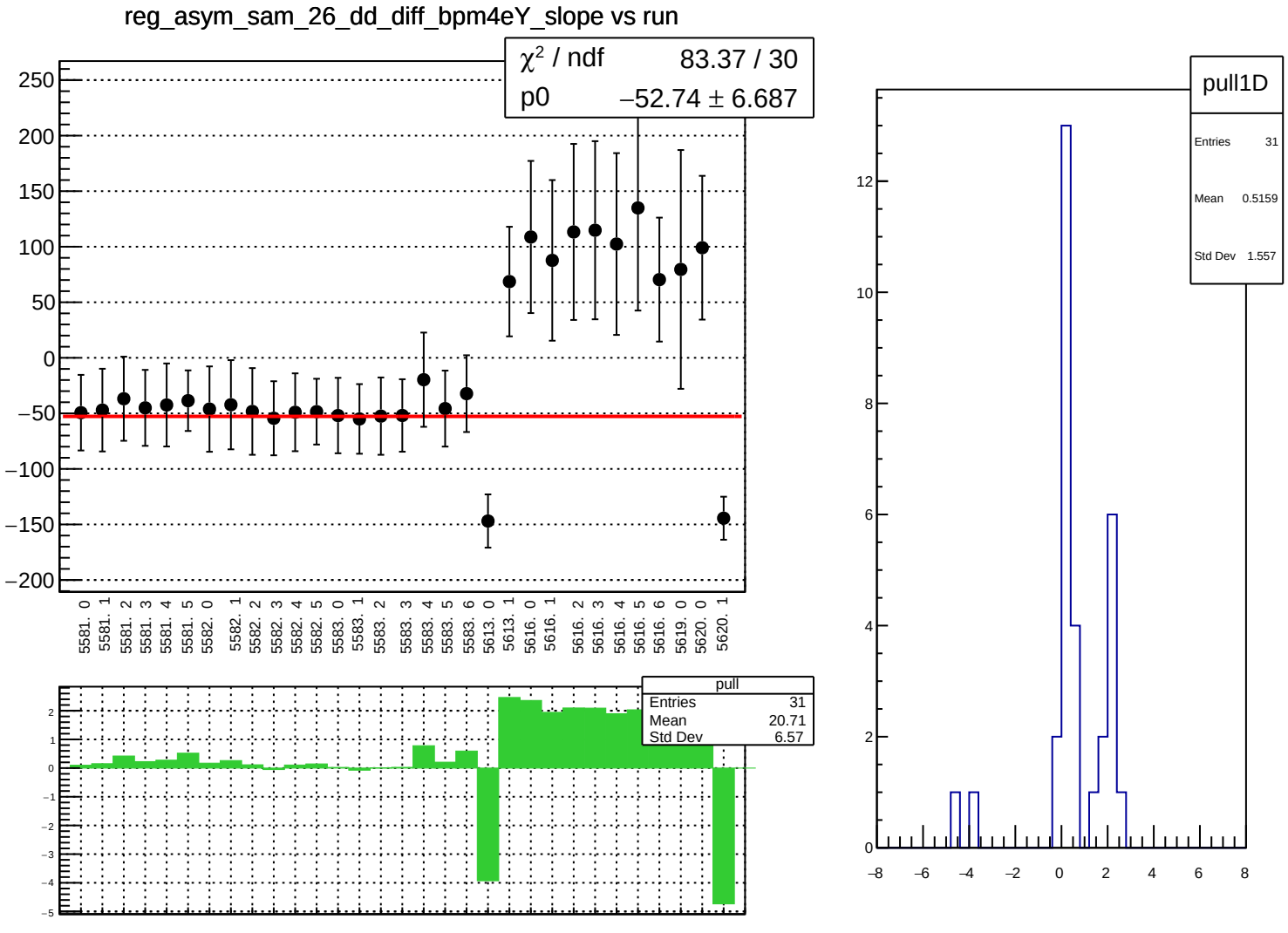

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 1417 / 30
p0 −3.604 ± 0.2057
5
0
−5
−10
−15
−20
−25
−30
−35
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 67.36
Std Dev 50.19
5
0
−5
−10
−15
pull1D
Entries 31
Mean 2.342
Std Dev 1.589
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

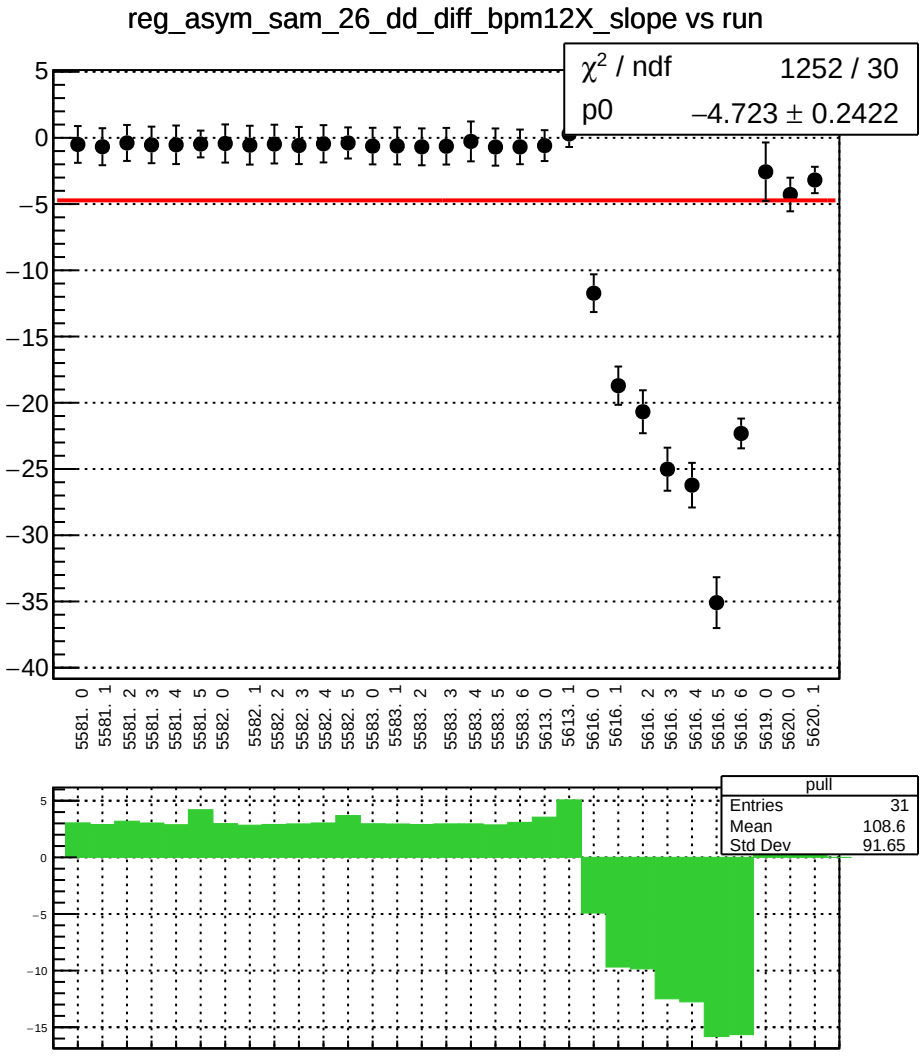

reg_asym_sam_26_dd_diff_bpm4aX_slope vs run
χ² / ndf 424.4 / 30
p0 −171.3 ± 9.101
0
−200
−400
−600
−800
−1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 45.86
Std Dev 28.19
2
0
−2
−4
−6
−8
pull1D
Entries 31
Mean −0.04547
Std Dev 3.022
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

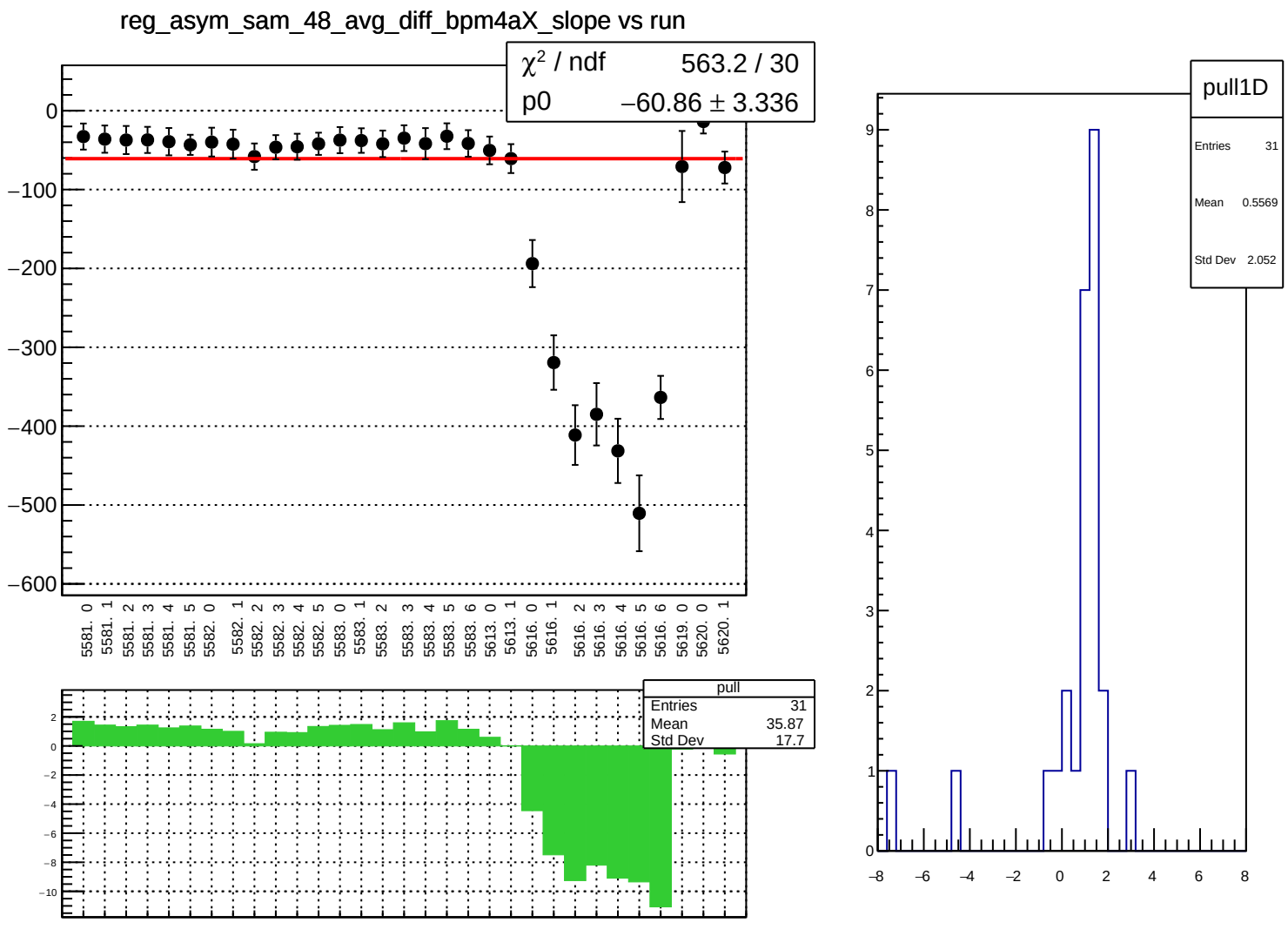

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 70.2 / 30
p0 −93.72 ± 5.074
0
−50
−100
−150
−200
−250
−300
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 17.43
Std Dev 7.415
5
4
3
2
1
0
−1
−2

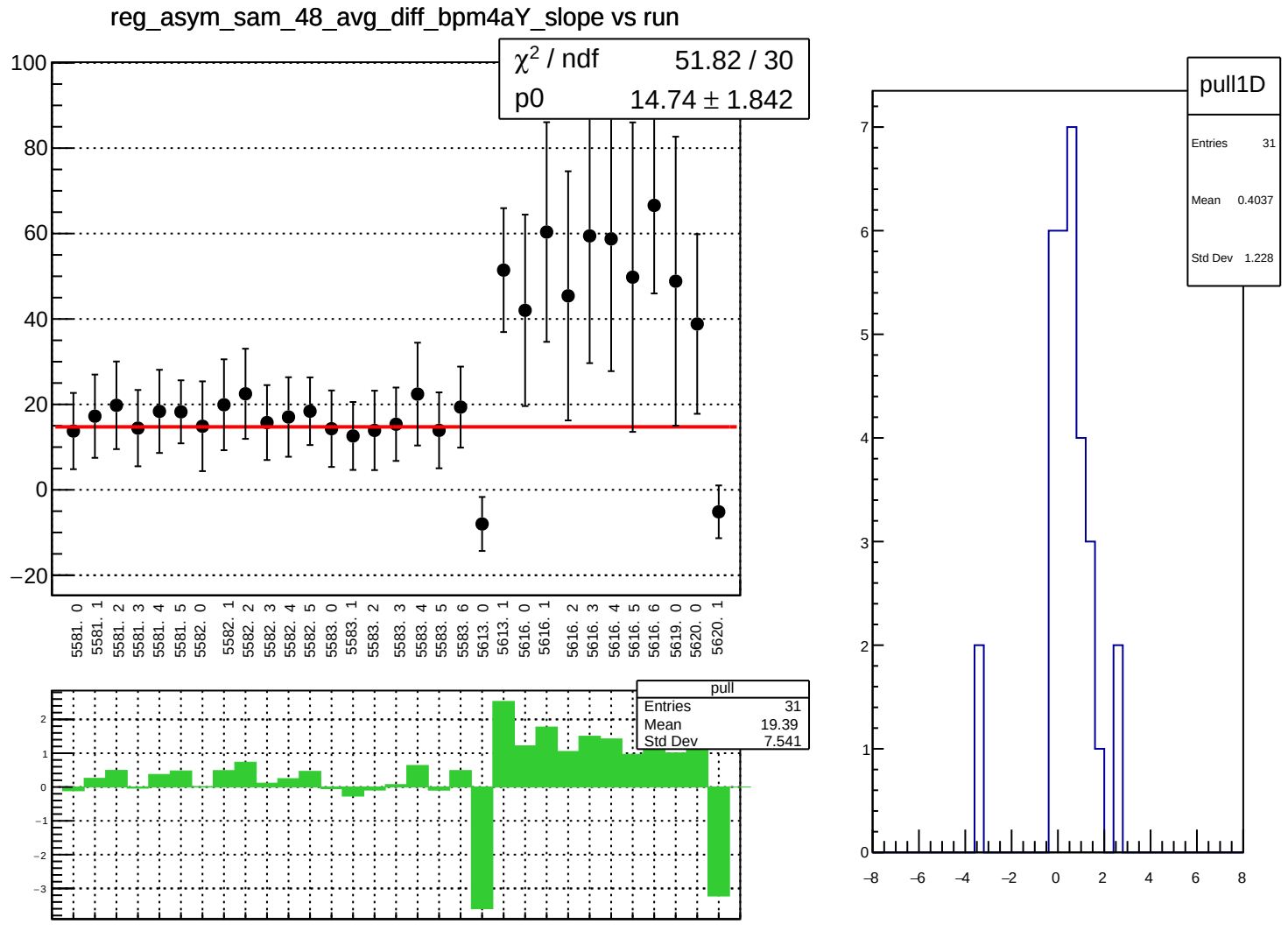

pull1D
Entries 31
Mean −0.456
Std Dev 1.434
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

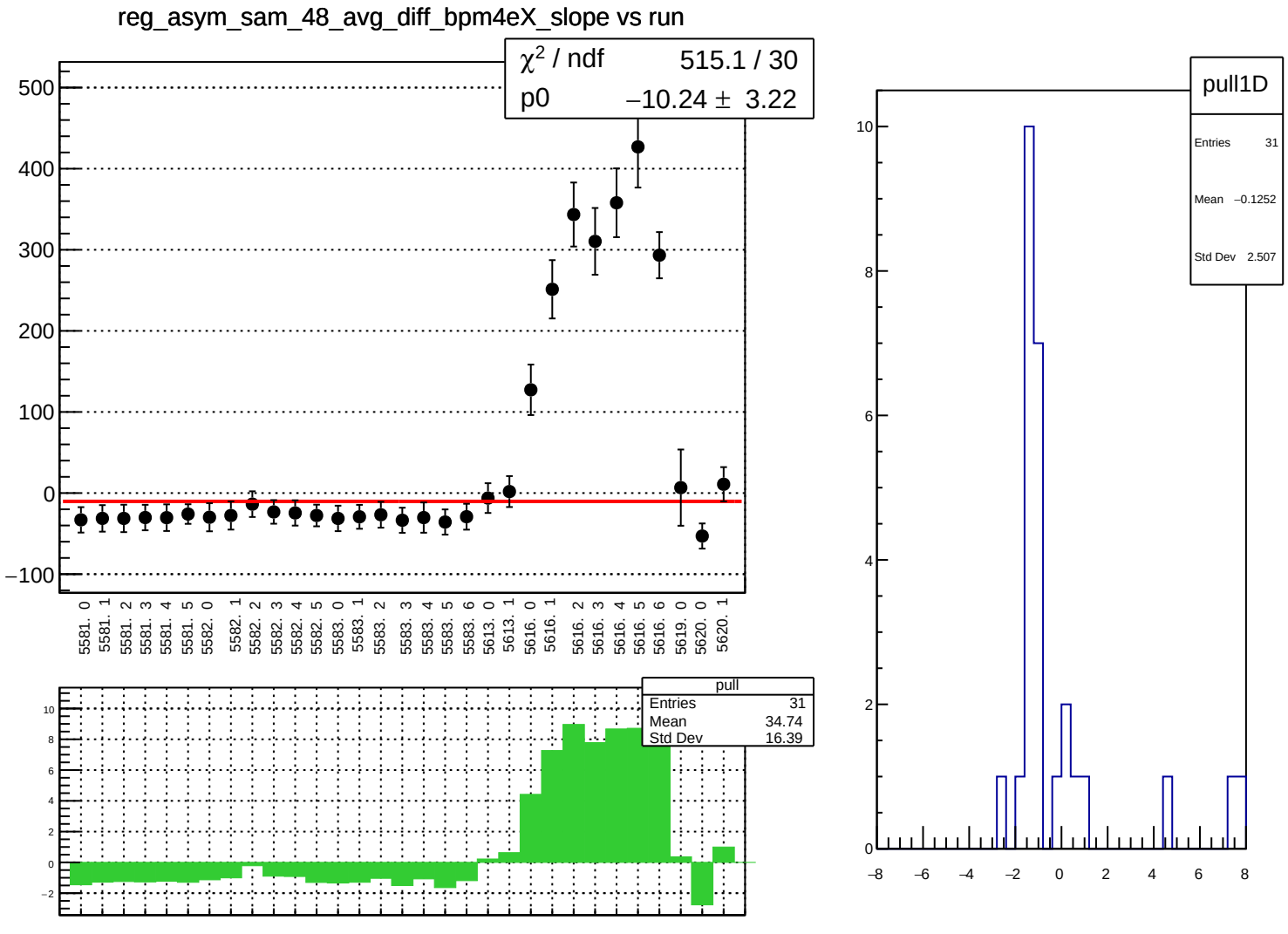

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 394.8 / 30
p0 −9.38 ± 8.842
800
600
400
200
0
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 42.82
Std Dev 24.96
8
6
4
2
0
−2
pull1D
Entries 31
Mean 0.1337
Std Dev 2.916
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

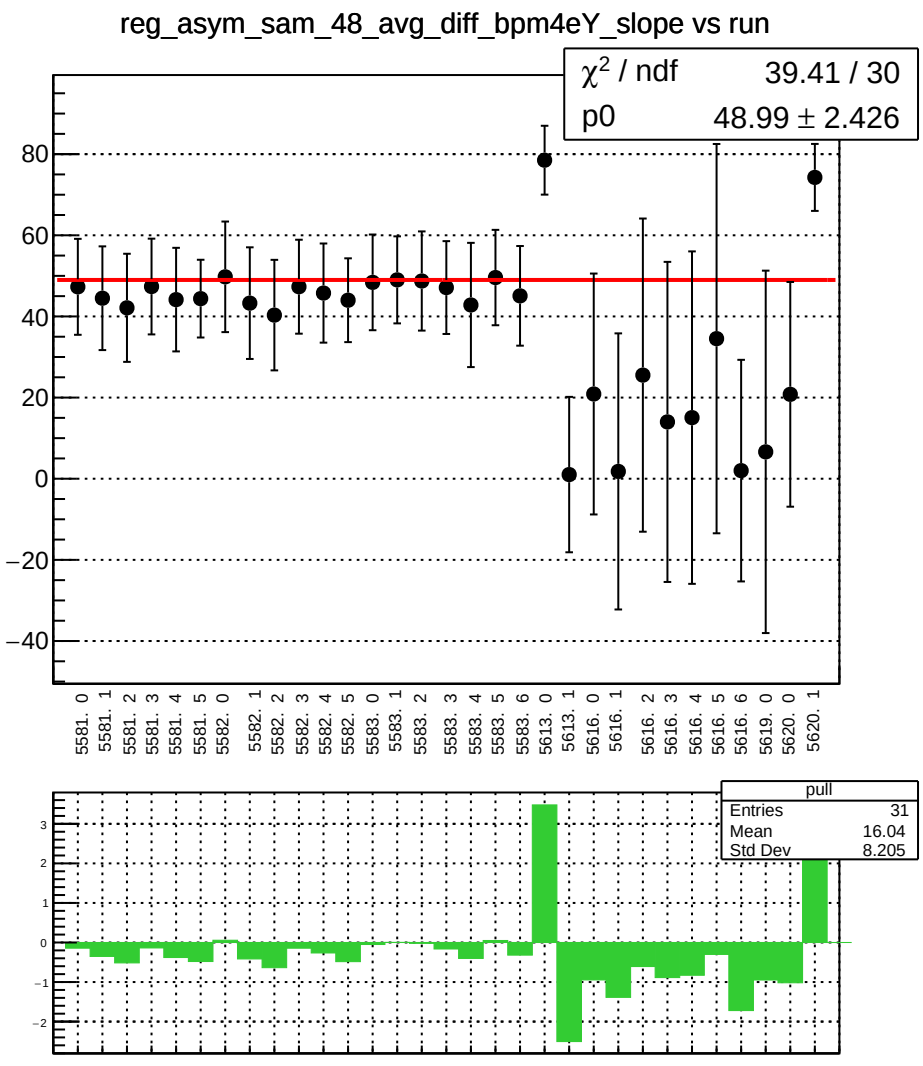

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 83.37 / 30
p0 −52.74 ± 6.687
250
200
150
100
50
0
−50
−100
−150
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 20.71
Std Dev 6.57
2
1
0
−1
−2
−3
−4
−5
pull1D
Entries 31
Mean 0.5159
Std Dev 1.557
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

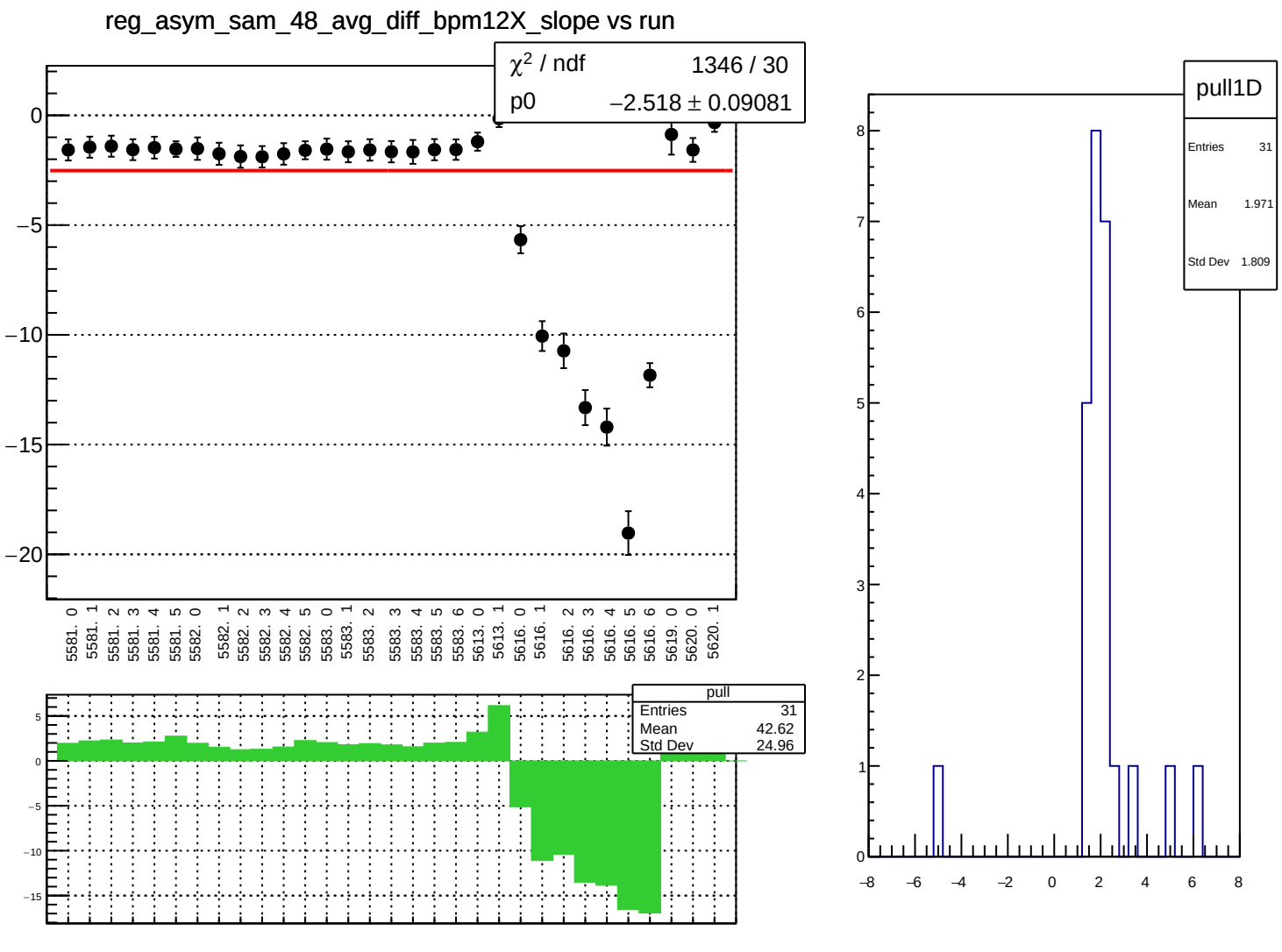

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 1252 / 30
p0 −4.723 ± 0.2422
5
0
−5
−10
−15
−20
−25
−30
−35
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 108.6
Std Dev 91.65
5
0
−5
−10
−15
pull1D
Entries 31
Mean 2.598
Std Dev 1.773
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

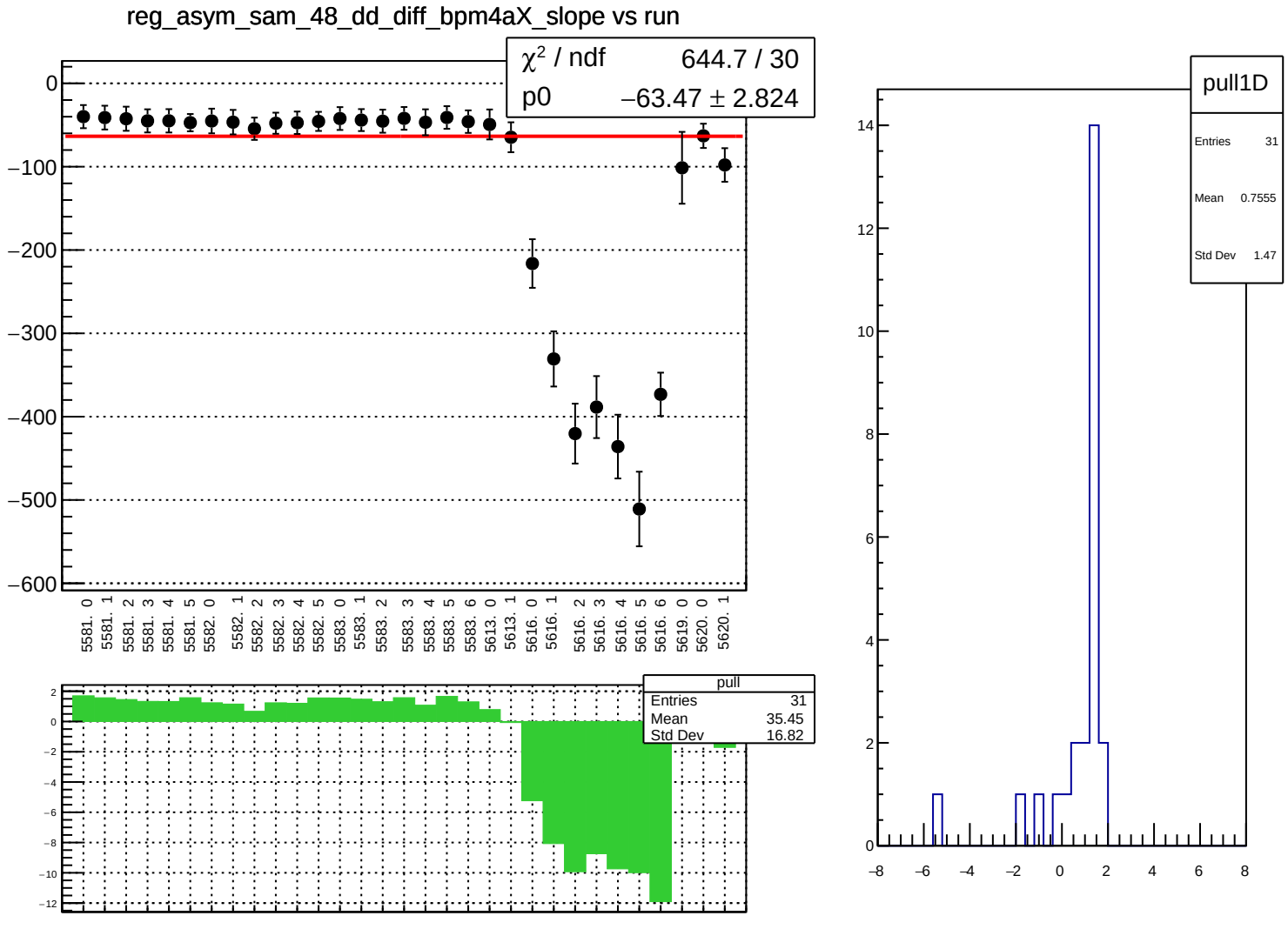

reg_asym_sam_48_avg_diff_bpm4aX_slope vs run
χ² / ndf 563.2 / 30
p0 −60.86 ± 3.336
0
−100
−200
−300
−400
−500
−600
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 35.87
Std Dev 17.7
2
0
−2
−4
−6
−8
−10
pull1D
Entries 31
Mean 0.5569
Std Dev 2.052
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

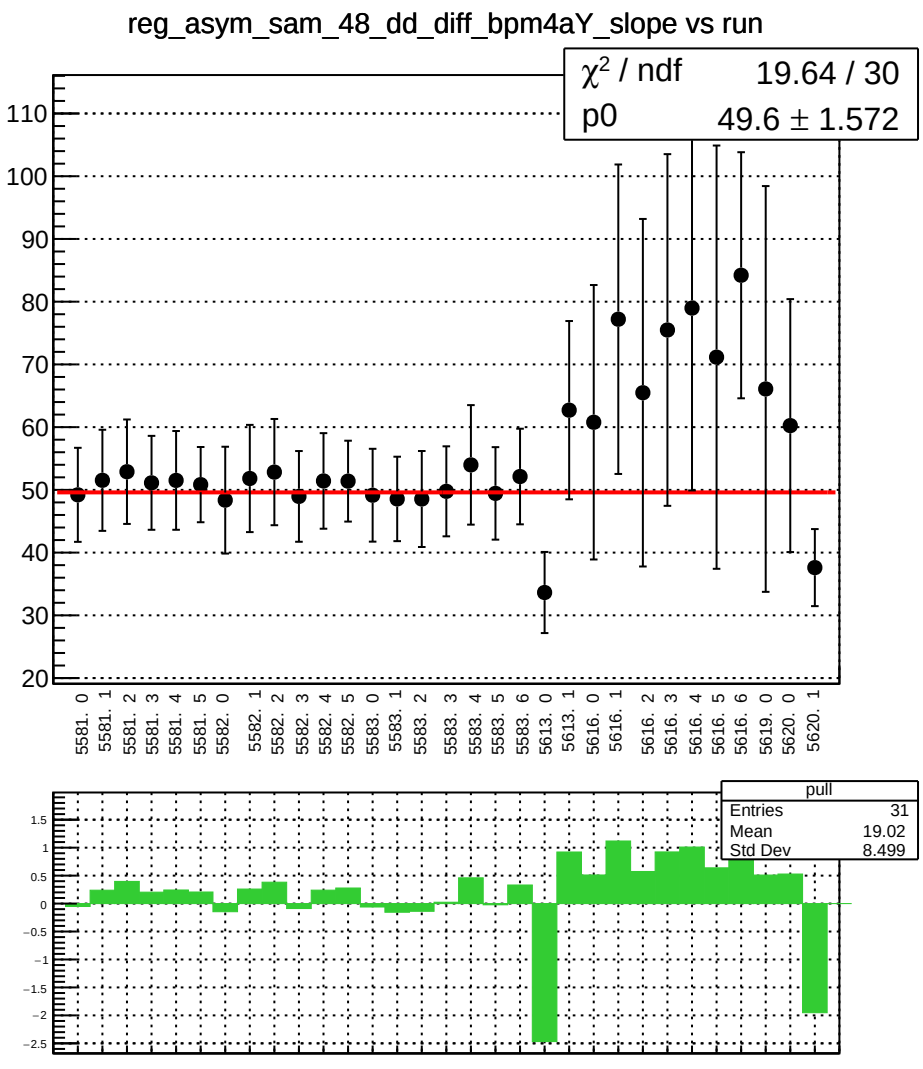

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 51.82 / 30
p0 14.74 ± 1.842
100
80
60
40
20
0
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 19.39
Std Dev 7.541
2
1
0
−1
−2
−3
pull1D
Entries 31
Mean 0.4037
Std Dev 1.228
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

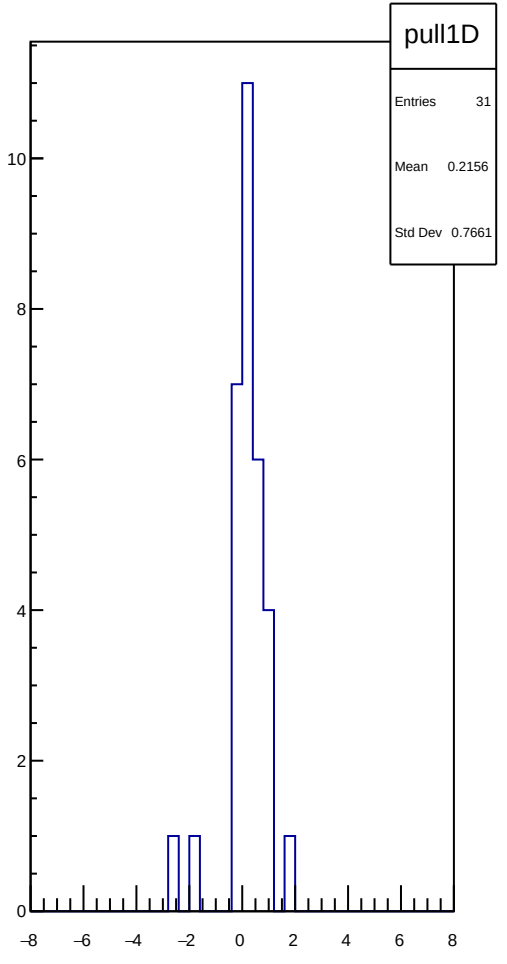

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 515.1 / 30
p0 −10.24 ± 3.22
500
400
300
200
100
0
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 34.74
Std Dev 16.39
10
8
6
4
2
0
−2
pull1D
Entries 31
Mean −0.1252
Std Dev 2.507
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

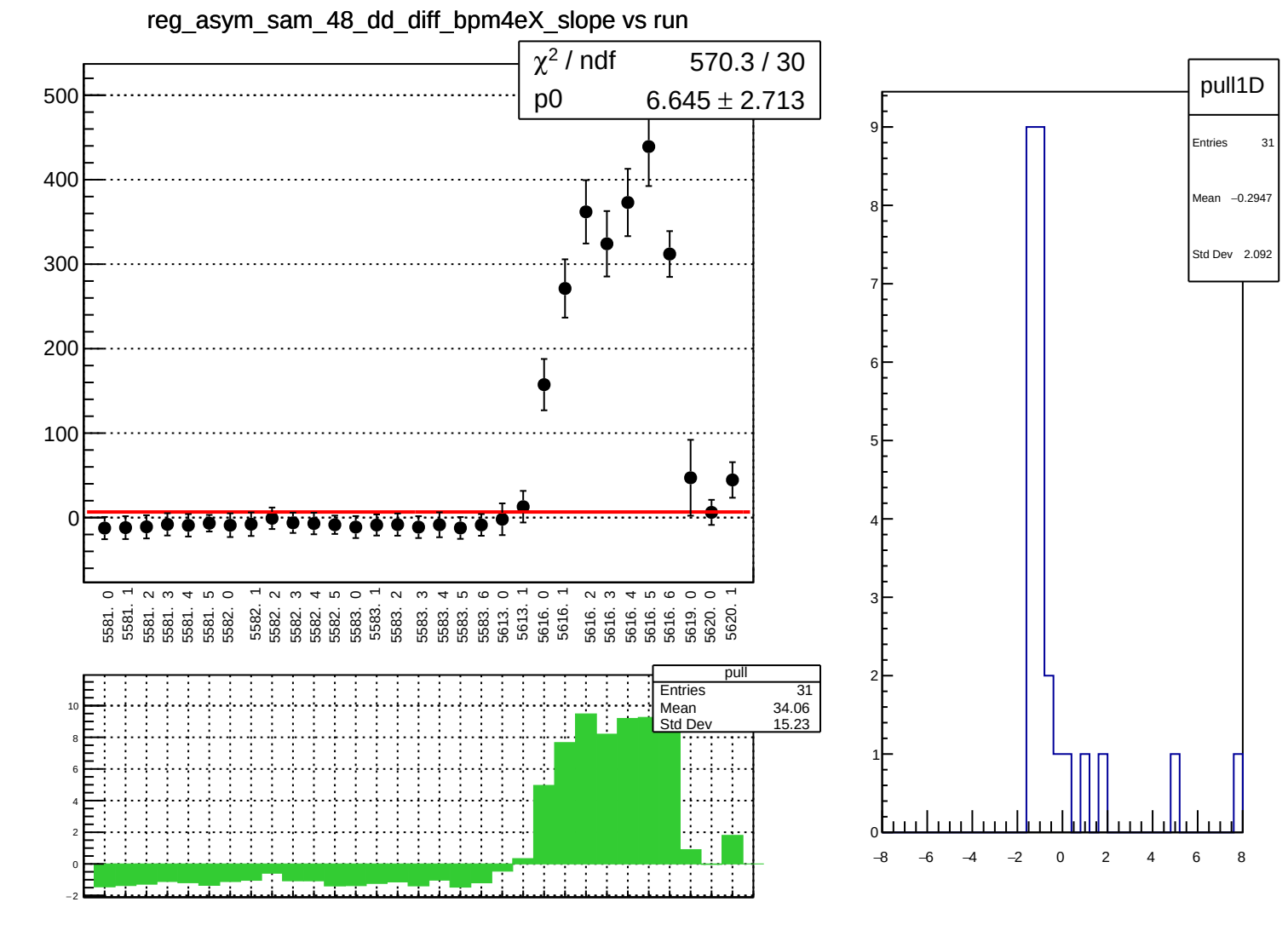

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 39.41 / 30
p0 48.99 ± 2.426
80
60
40
20
0
−20
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 16.04
Std Dev 8.205
3
2
1
0
−1
−2
pull1D
Entries 31
Mean −0.3036
Std Dev 1.086
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

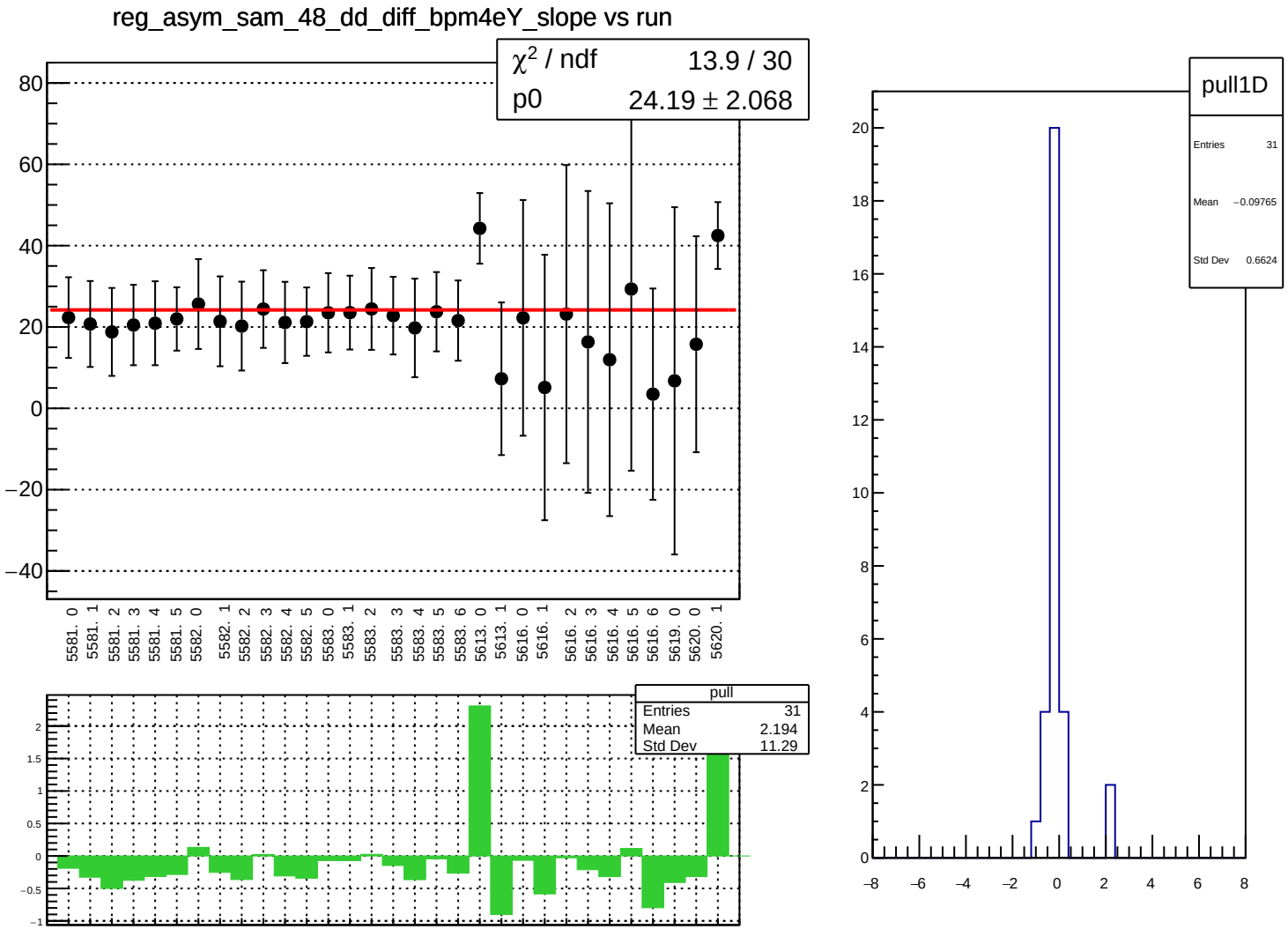

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 1346 / 30
p0 −2.518 ± 0.09081
0
−5
−10
−15
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 42.62
Std Dev 24.96
5
0
−5
−10
−15
pull1D
Entries 31
Mean 1.971
Std Dev 1.809
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

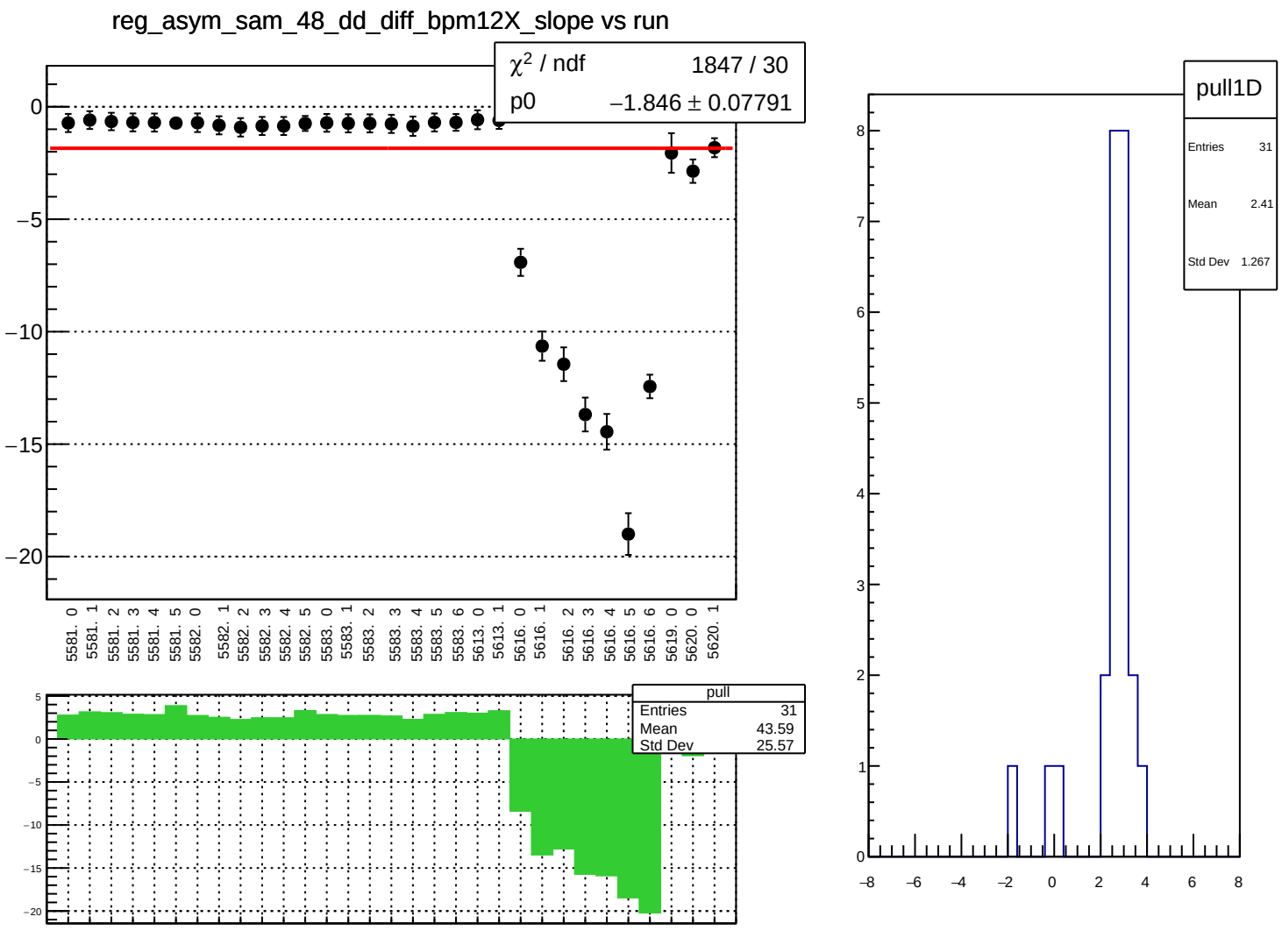

reg_asym_sam_48_dd_diff_bpm4aX_slope vs run
χ² / ndf 644.7 / 30
p0 −63.47 ± 2.824
0
−100
−200
−300
−400
−500
−600
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 35.45
Std Dev 16.82
2
0
−2
−4
−6
−8
−10
−12
pull1D
Entries 31
Mean 0.7555
Std Dev 1.47
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

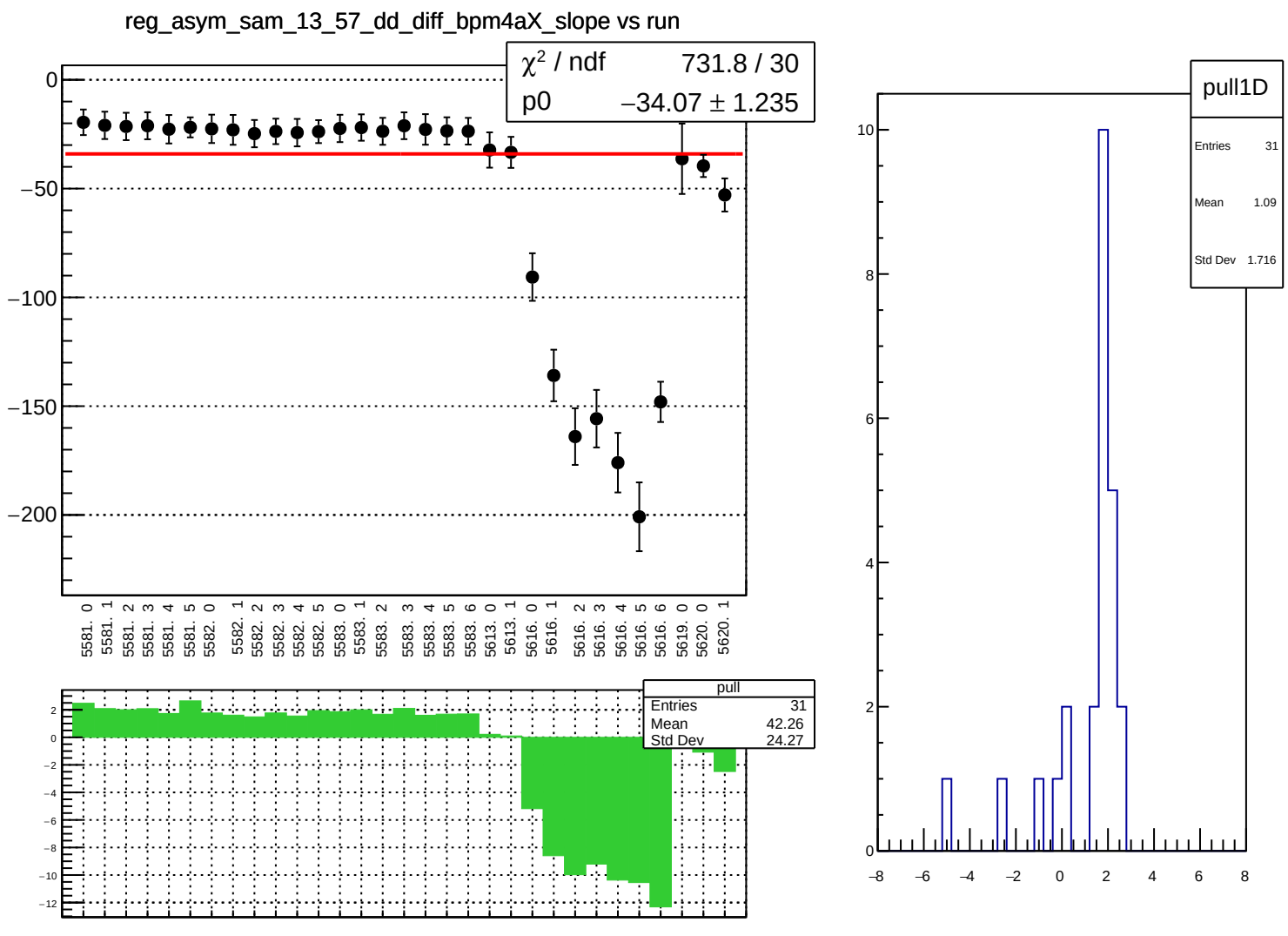

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 19.64 / 30
p0 49.6 ± 1.572
110
100
90
80
70
60
50
40
30
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 19.02
Std Dev 8.499
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

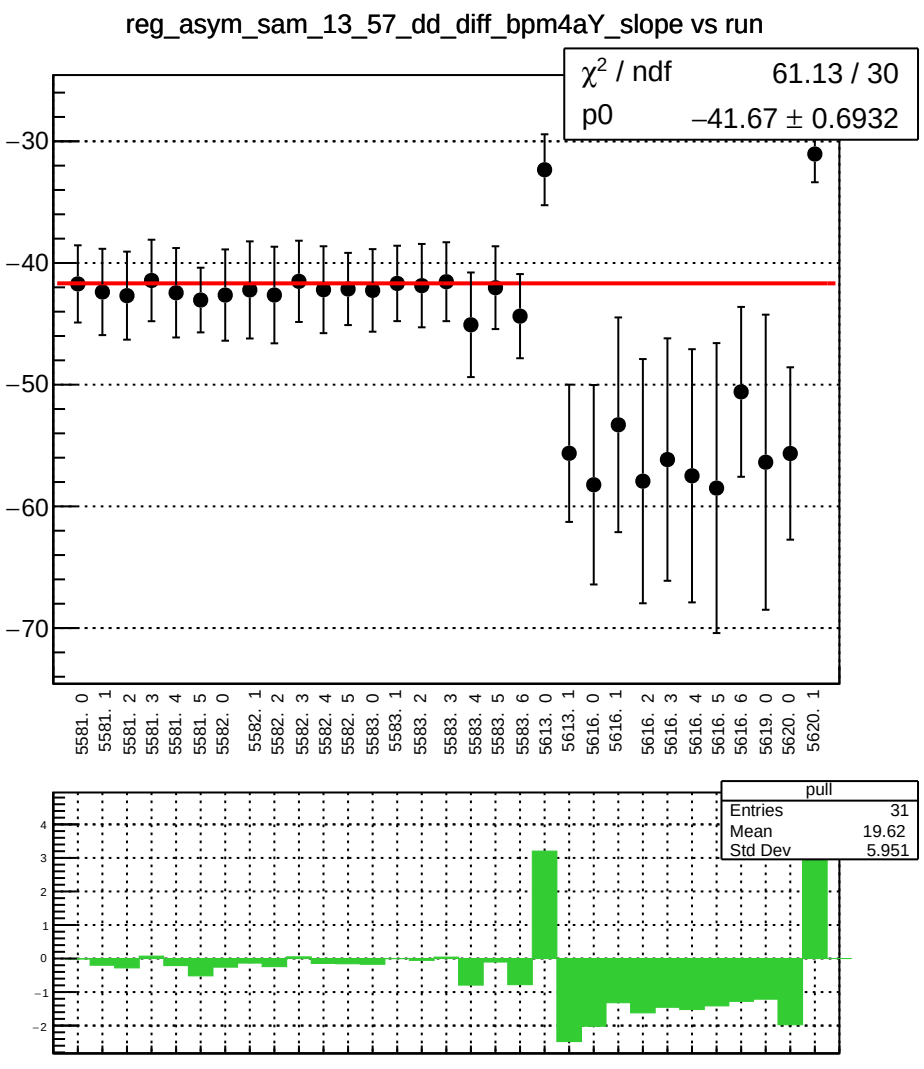

pull1D
Entries 31
Mean 0.2156
Std Dev 0.7661
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

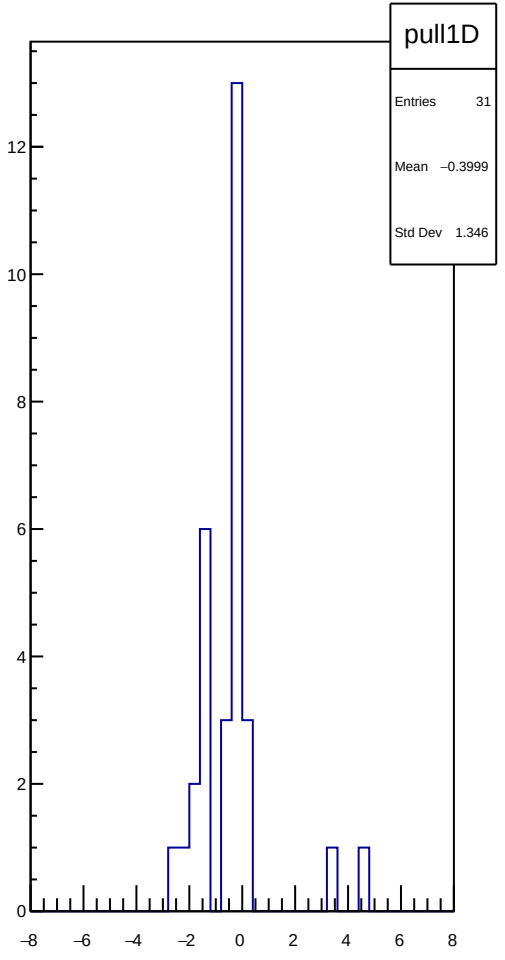

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 570.3 / 30
p0 6.645 ± 2.713
500
400
300
200
100
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 34.06
Std Dev 15.23
10
8
6
4
2
0
−2
pull1D
Entries 31
Mean −0.2947
Std Dev 2.092
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

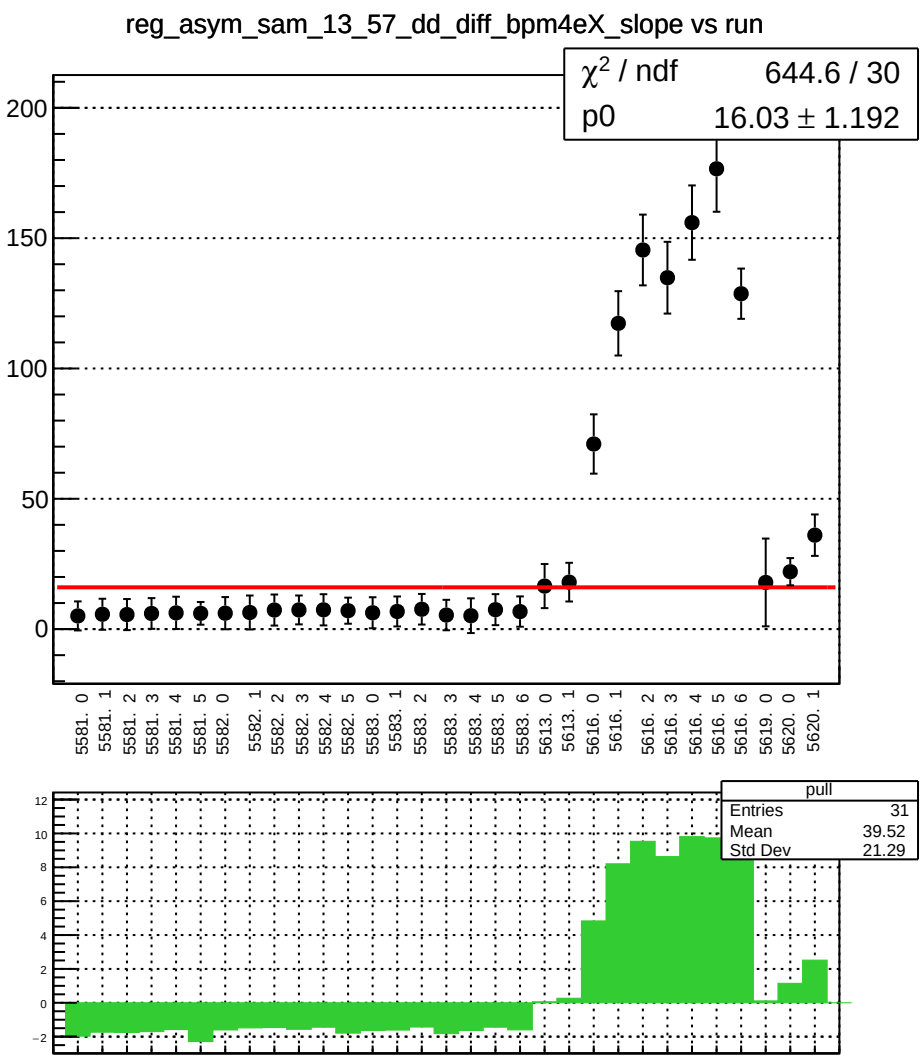

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 13.9 / 30
p0 24.19 ± 2.068
80
60
40
20
0
−20
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 2.194
Std Dev 11.29
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 31
Mean −0.09765
Std Dev 0.6624
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

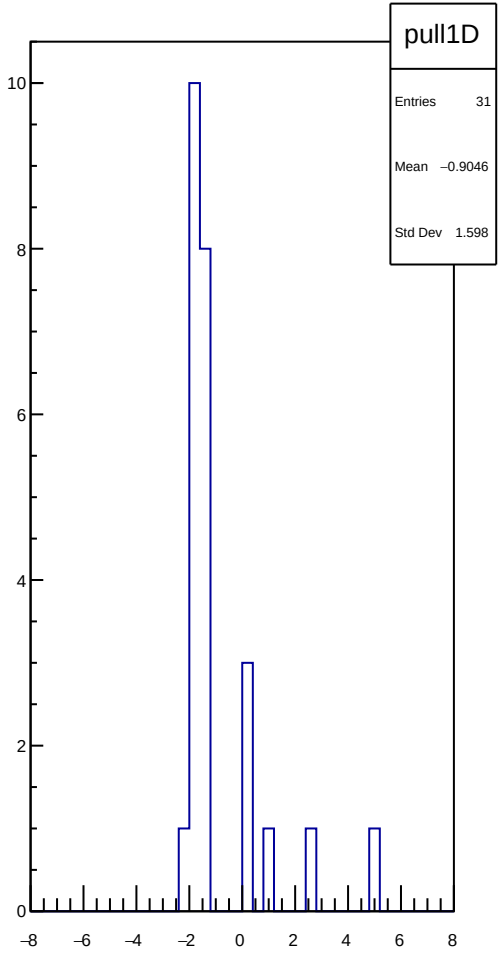

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 1847 / 30
p0 −1.846 ± 0.07791
0
−5
−10
−15
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 43.59
Std Dev 25.57
5
0
−5
−10
−15
−20
pull1D
Entries 31
Mean 2.41
Std Dev 1.267
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

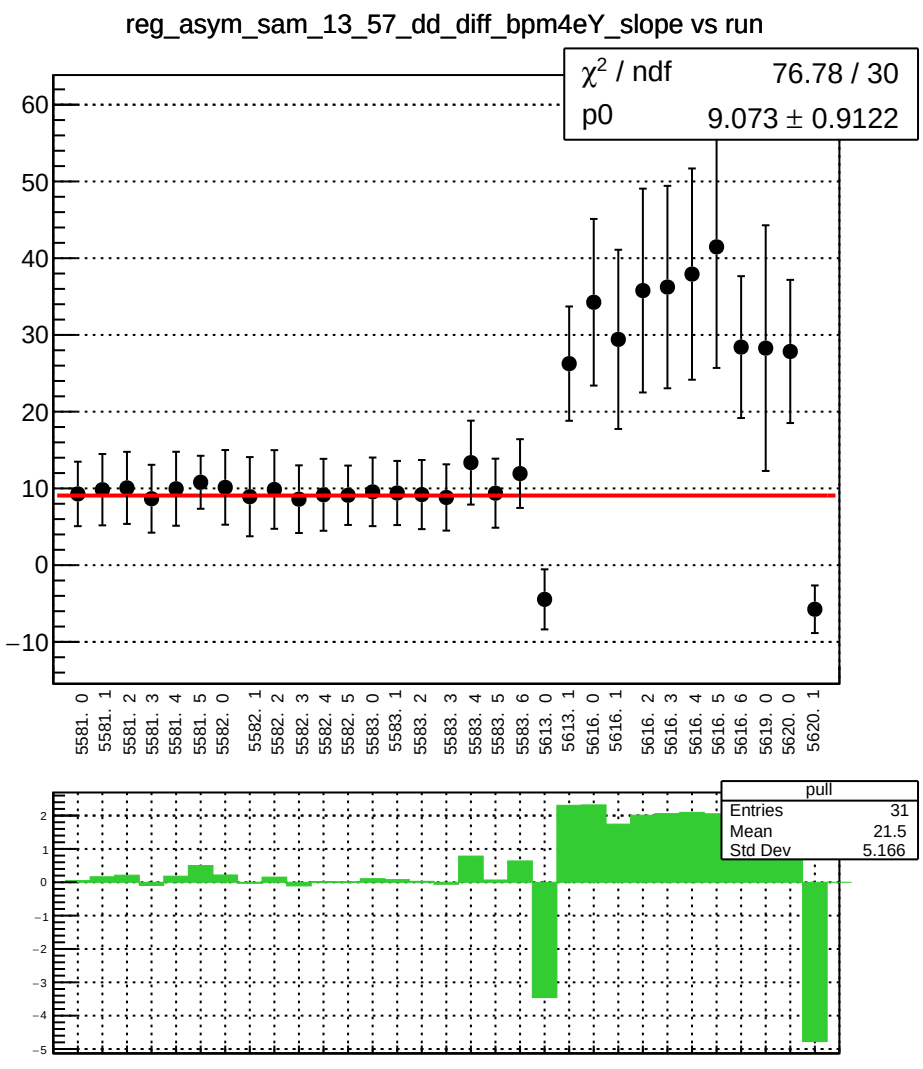

reg_asym_sam_13_57_dd_diff_bpm4aX_slope vs run
χ² / ndf 731.8 / 30
p0 −34.07 ± 1.235
0
−50
−100
−150
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 42.26
Std Dev 24.27
2
0
−2
−4
−6
−8
−10
−12
pull1D
Entries 31
Mean 1.09
Std Dev 1.716
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

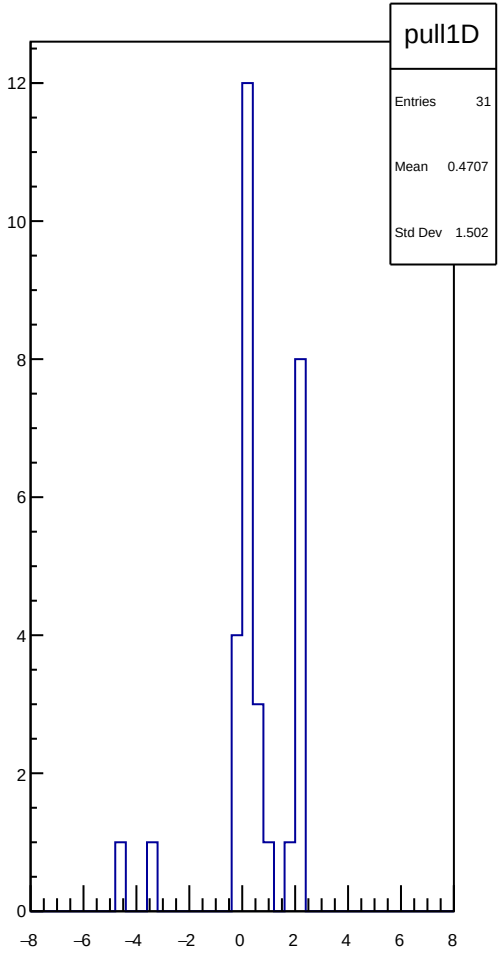

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 61.13 / 30
p0 −41.67 ± 0.6932
−30
−40
−50
−60
−70
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 19.62
Std Dev 5.951
4
3
2
1
0
−1
−2

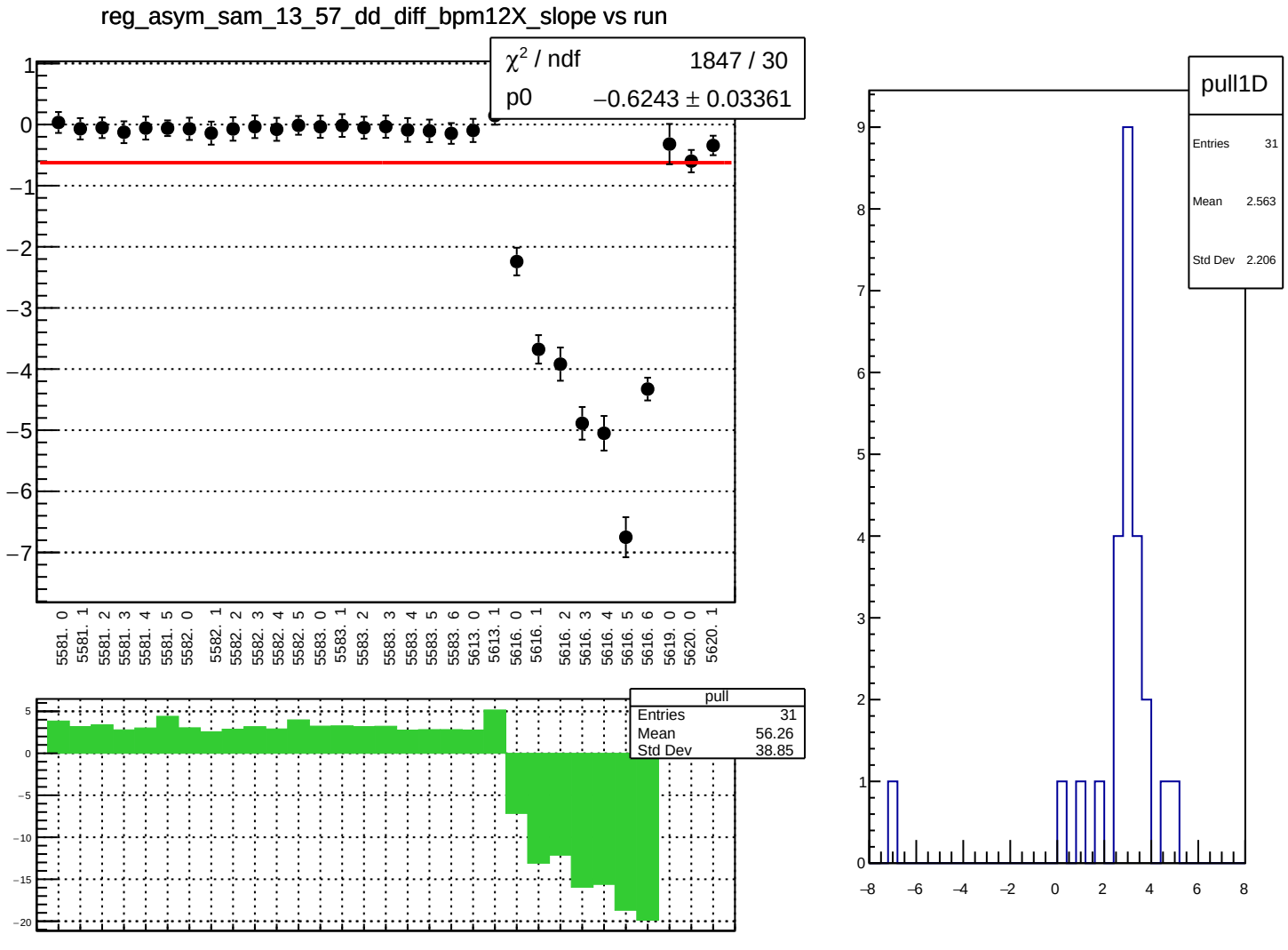

pull1D
Entries 31
Mean −0.3999
Std Dev 1.346
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

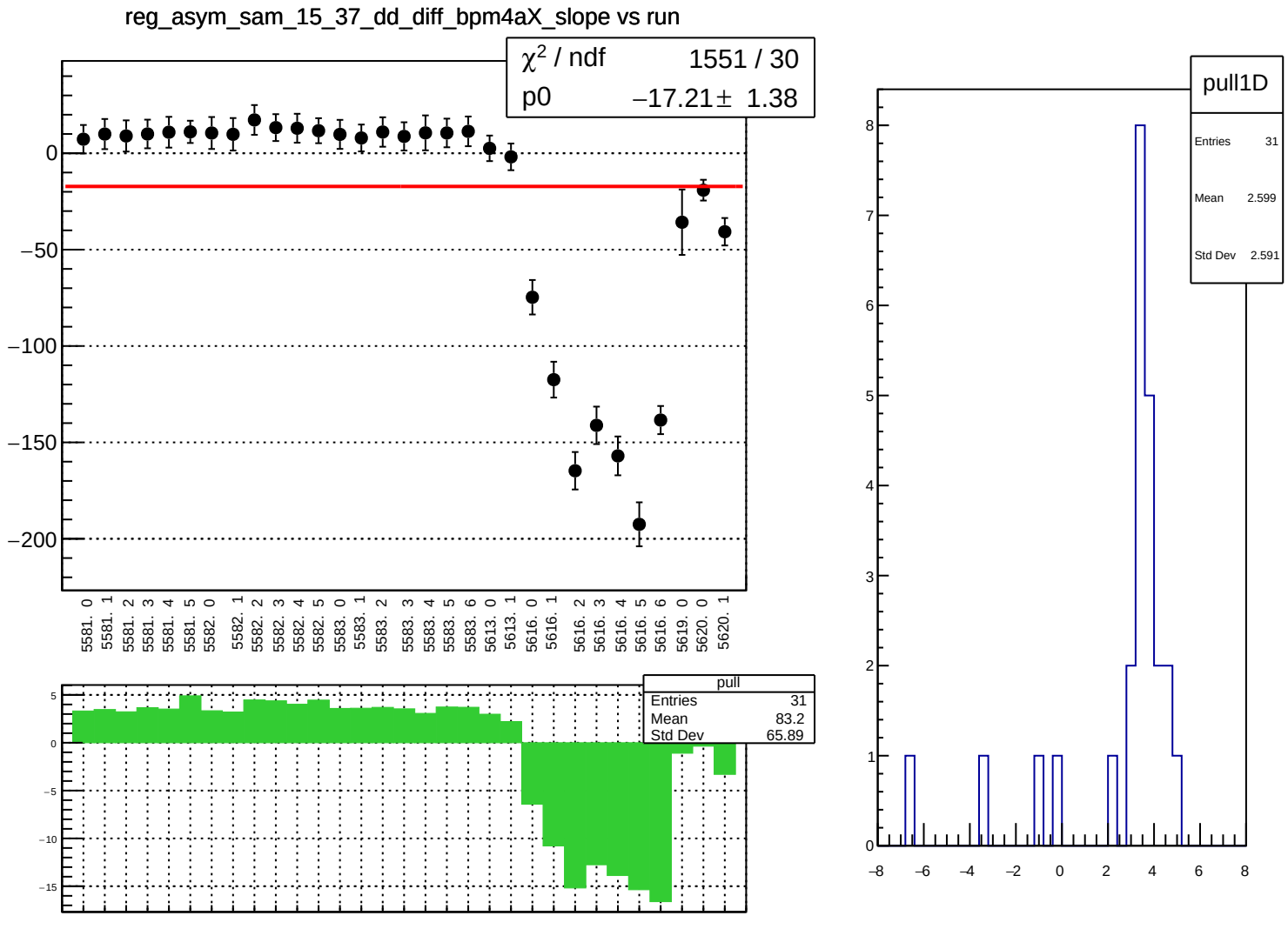

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 644.6 / 30
p0 16.03 ± 1.192
200
150
100
50
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 39.52
Std Dev 21.29
12
10
8
6
4
2
0
−2

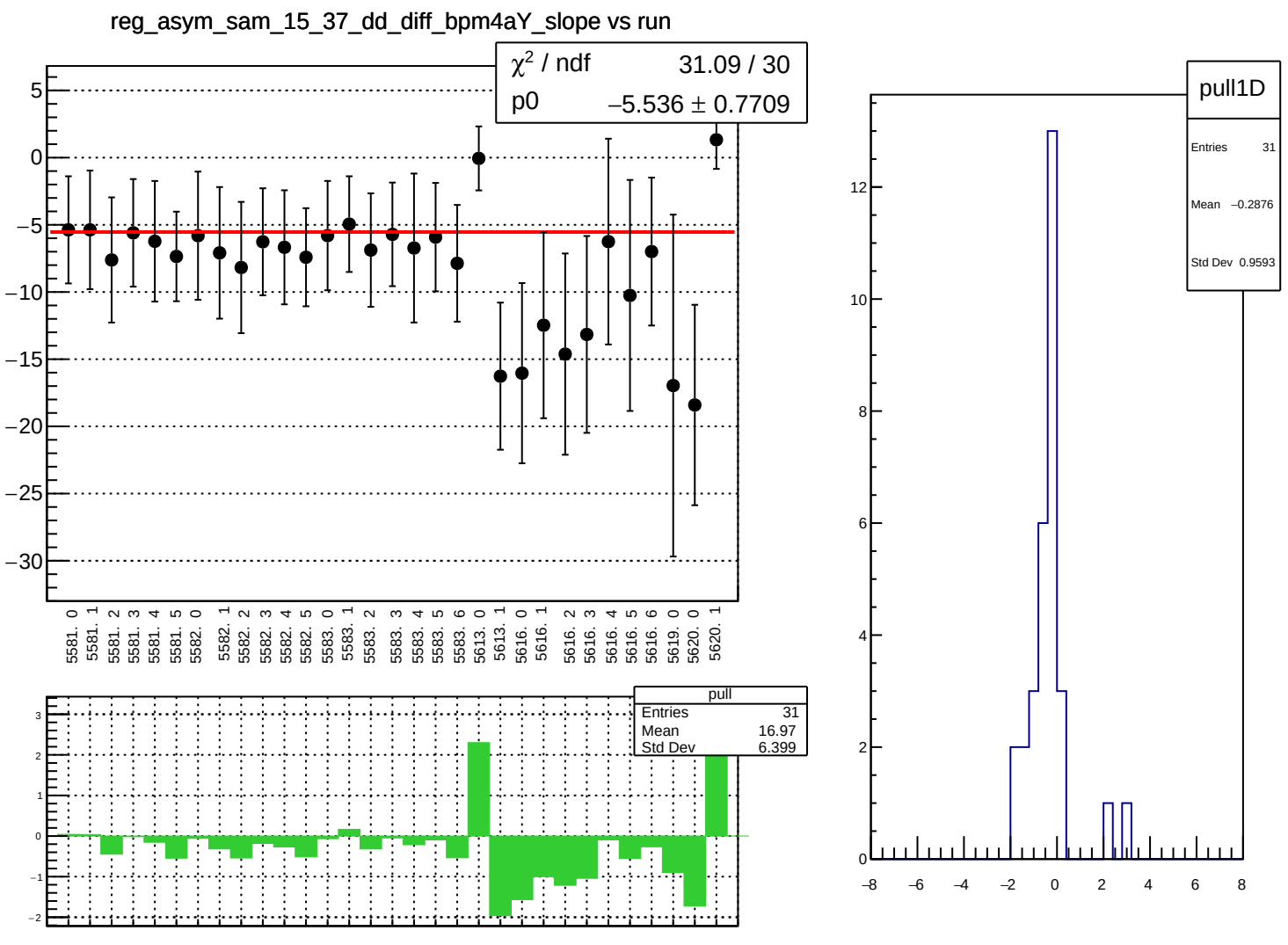

pull1D
Entries 31
Mean −0.9046
Std Dev 1.598
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

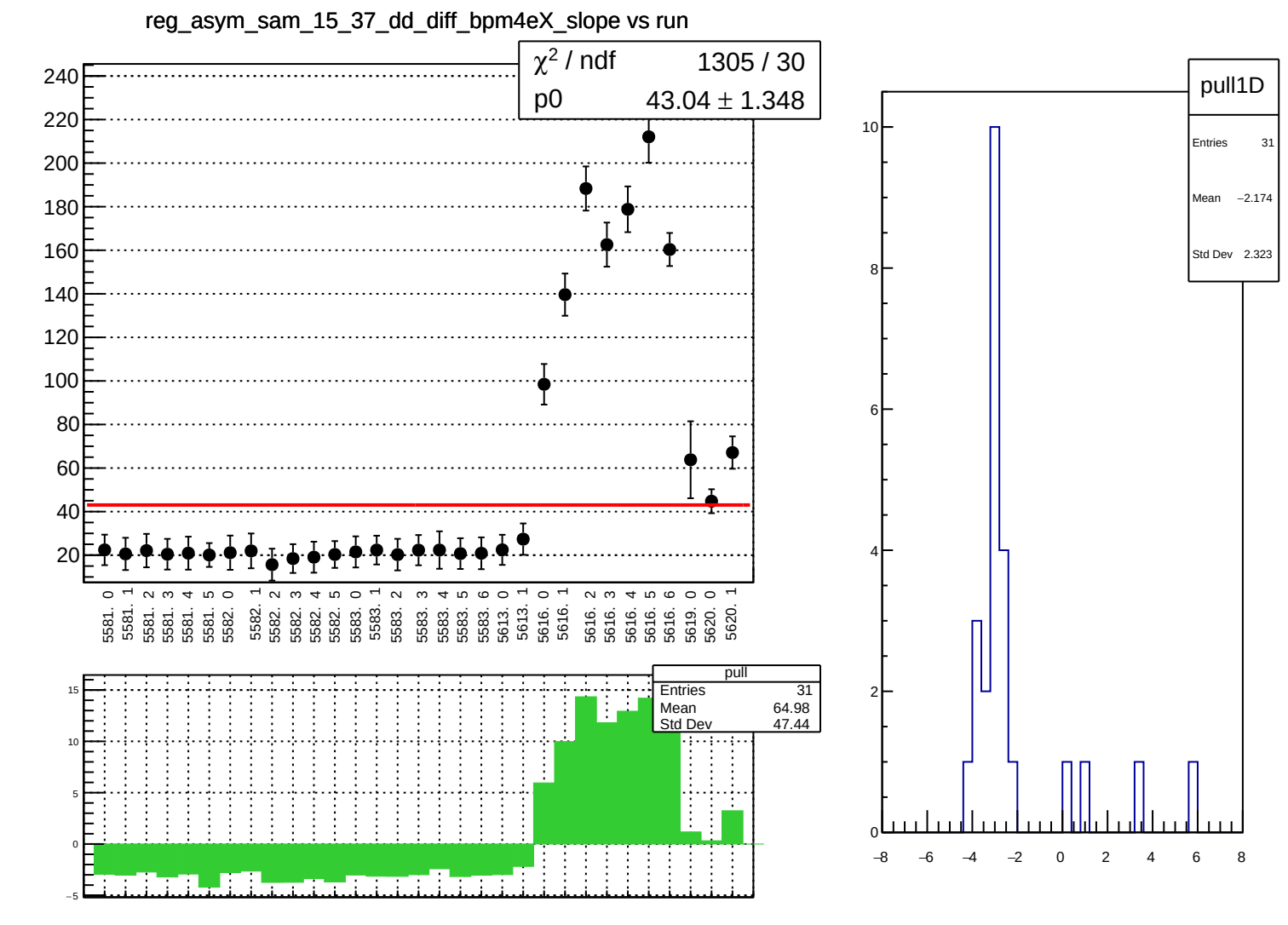

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 76.78 / 30
p0 9.073 ± 0.9122
pull
Entries 31
Mean 21.5
Std Dev 5.166

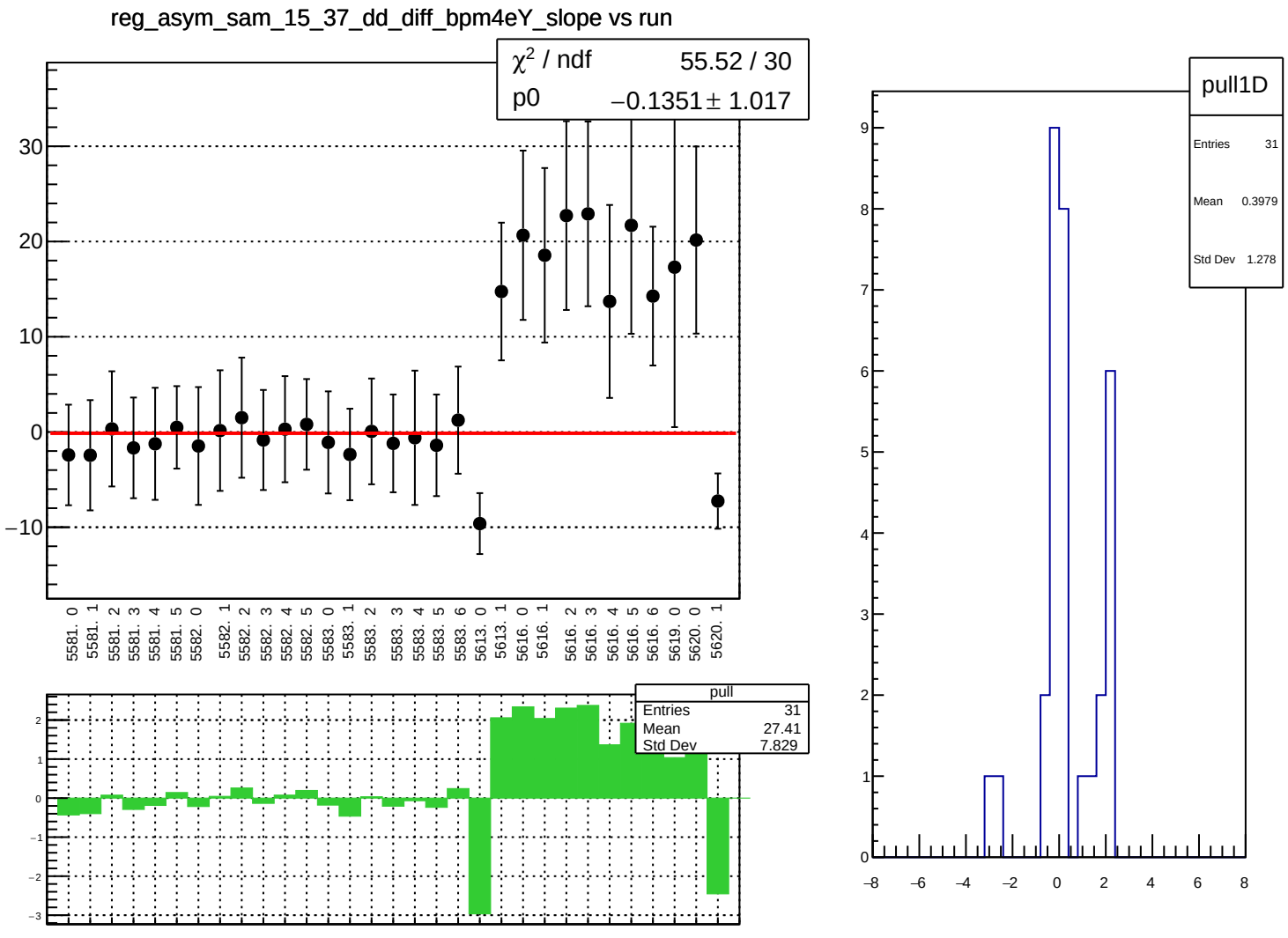

pull1D
Entries 31
Mean 0.4707
Std Dev 1.502

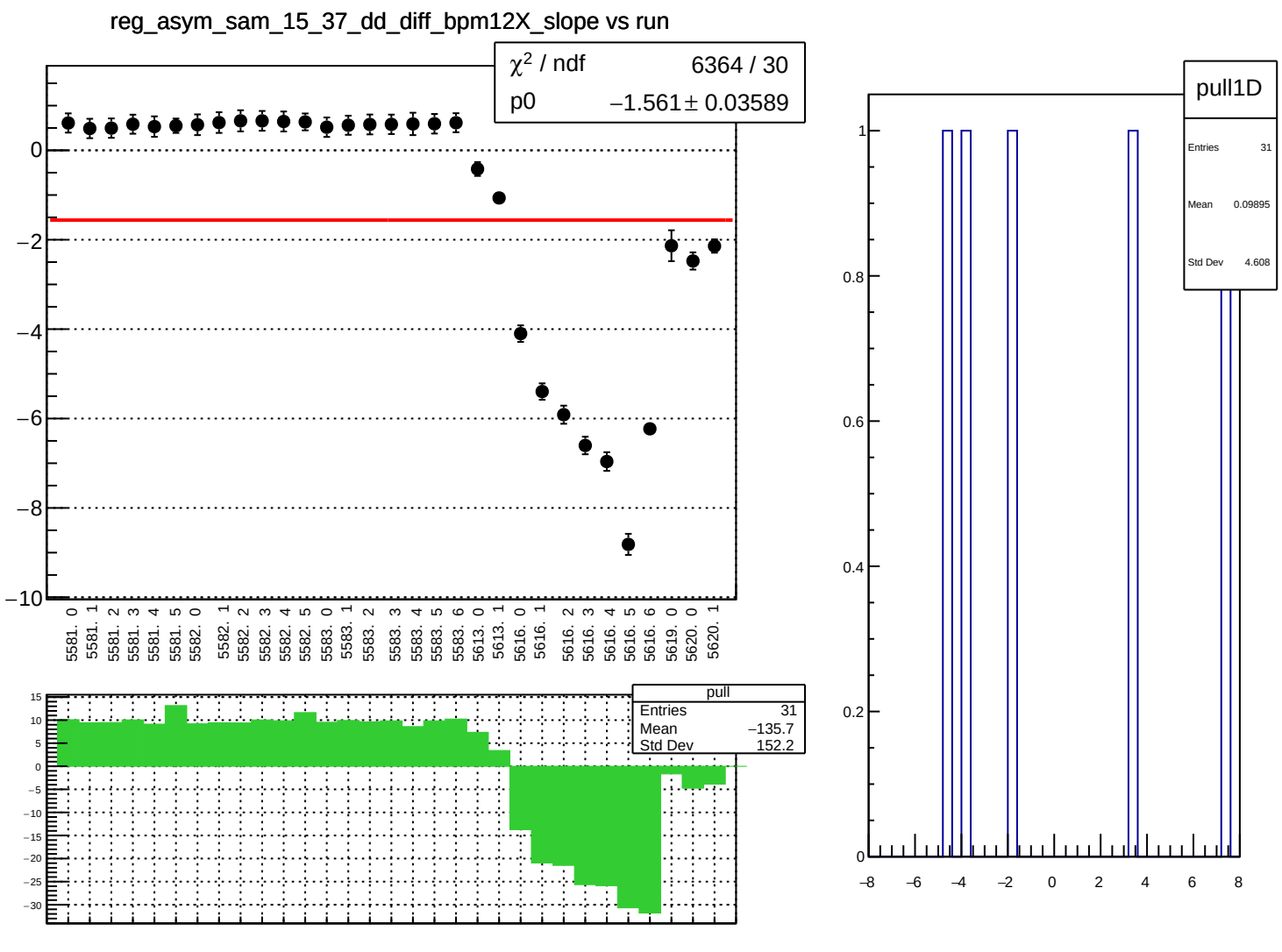

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 1847 / 30
p0 −0.6243 ± 0.03361
pull
Entries 31
Mean 56.26
Std Dev 38.85
pull1D
Entries 31
Mean 2.563
Std Dev 2.206

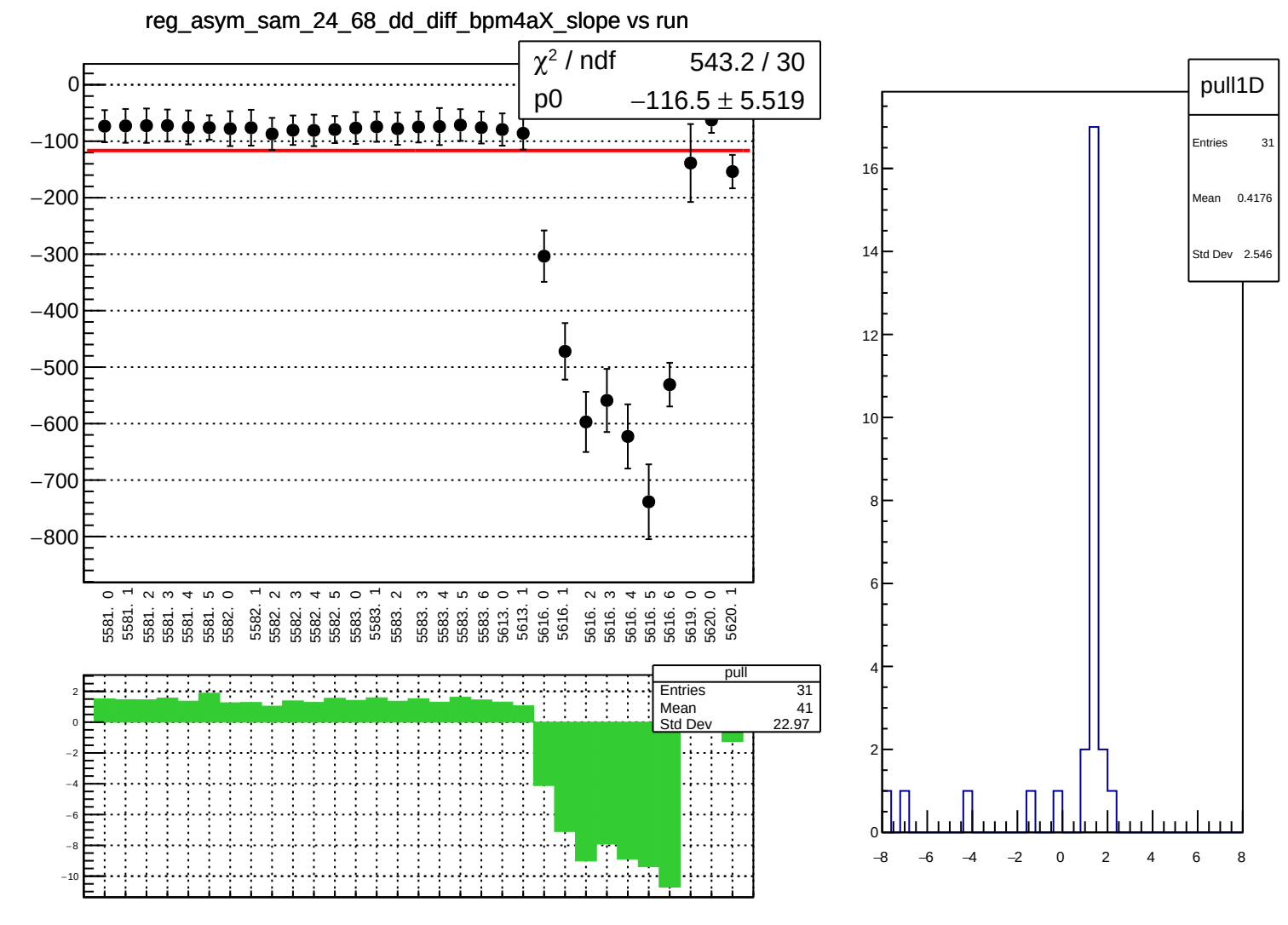

reg_asym_sam_15_37_dd_diff_bpm4aX_slope vs run
χ² / ndf 1551 / 30
p0 −17.21± 1.38
0
−50
−100
−150
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 83.2
Std Dev 65.89
5
0
−5
−10
−15
pull1D
Entries 31
Mean 2.599
Std Dev 2.591
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 31.09 / 30
p0 −5.536 ± 0.7709
5
0
−5
−10
−15
−20
−25
−30
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 16.97
Std Dev 6.399
3
2
1
0
−1
−2
pull1D
Entries 31
Mean −0.2876
Std Dev 0.9593
12
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 1305 / 30
p0 43.04 ± 1.348
240
220
200
180
160
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 64.98
Std Dev 47.44
15
10
5
0
−5
pull1D
Entries 31
Mean −2.174
Std Dev 2.323
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 55.52 / 30
p0 −0.1351 ± 1.017
30
20
10
0
−10
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 27.41
Std Dev 7.829
2
1
0
−1
−2
−3
pull1D
Entries 31
Mean 0.3979
Std Dev 1.278
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 6364 / 30
p0 −1.561 ± 0.03589
0
−2
−4
−6
−8
−10
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −135.7
Std Dev 152.2
15
10
5
0
−5
−10
−15
−20
−25
−30
pull1D
Entries 31
Mean 0.09895
Std Dev 4.608
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_24_68_dd_diff_bpm4aX_slope vs run
χ² / ndf 543.2 / 30
p0 −116.5 ± 5.519
0
−100
−200
−300
−400
−500
−600
−700
−800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
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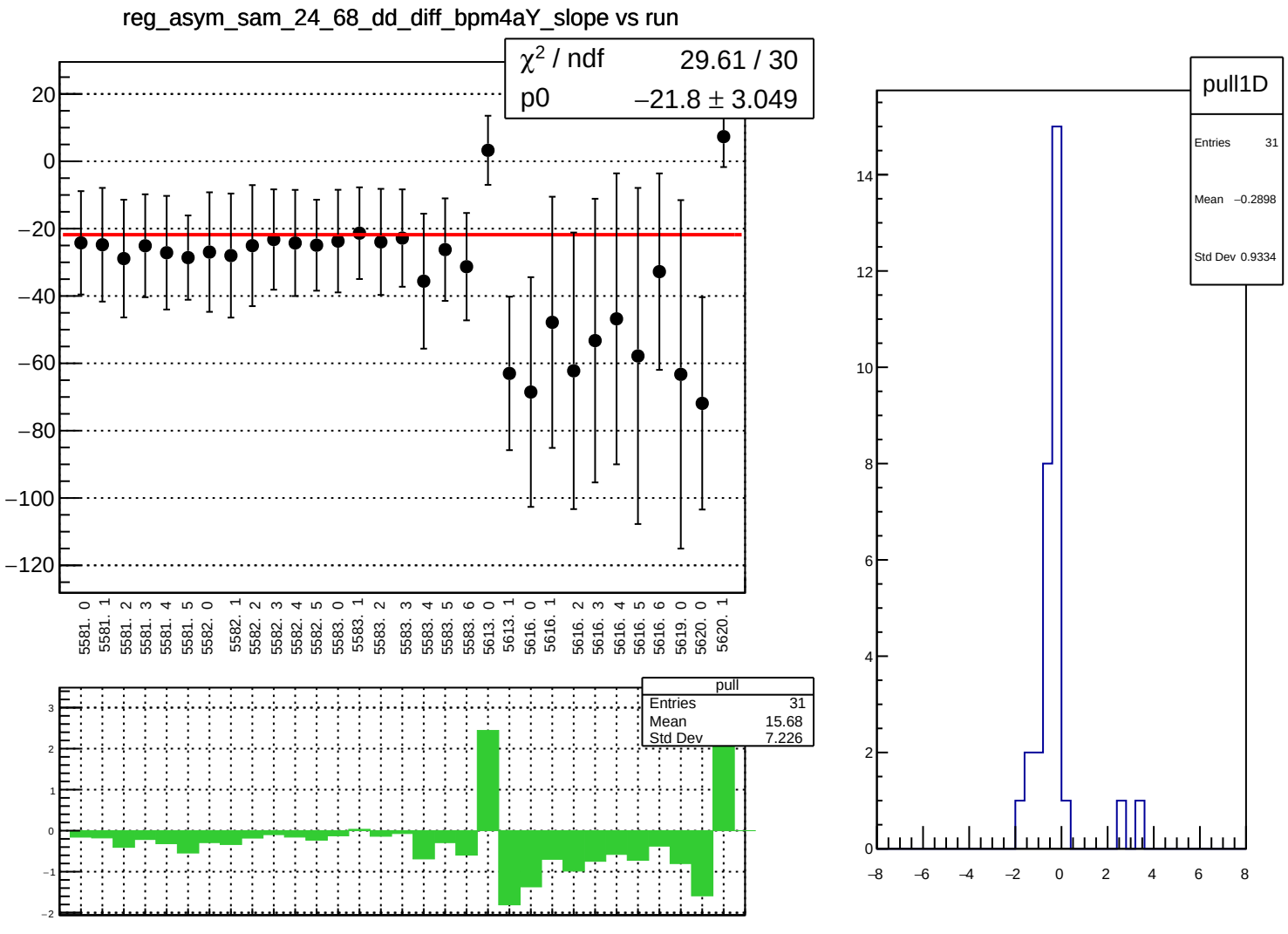
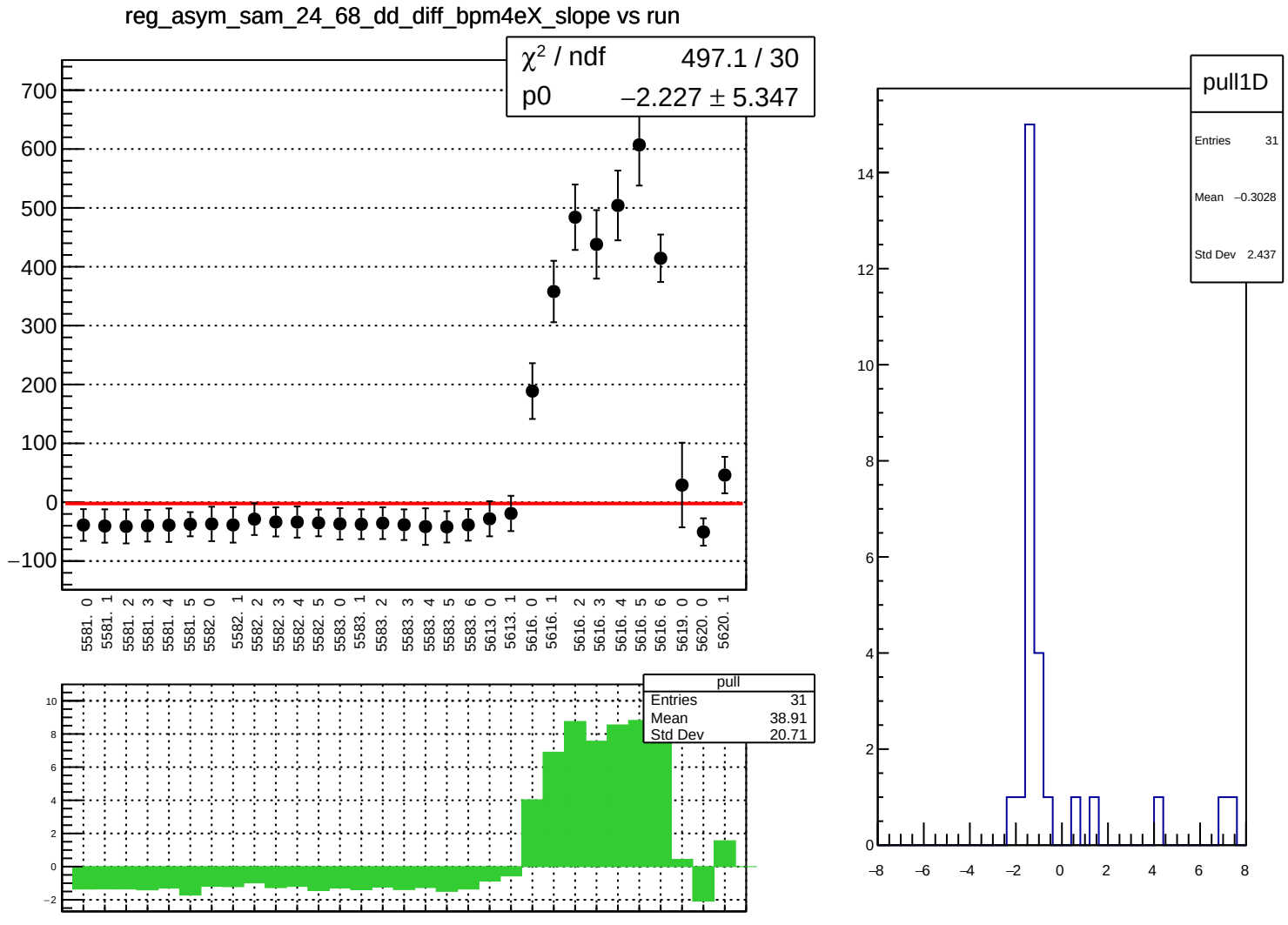
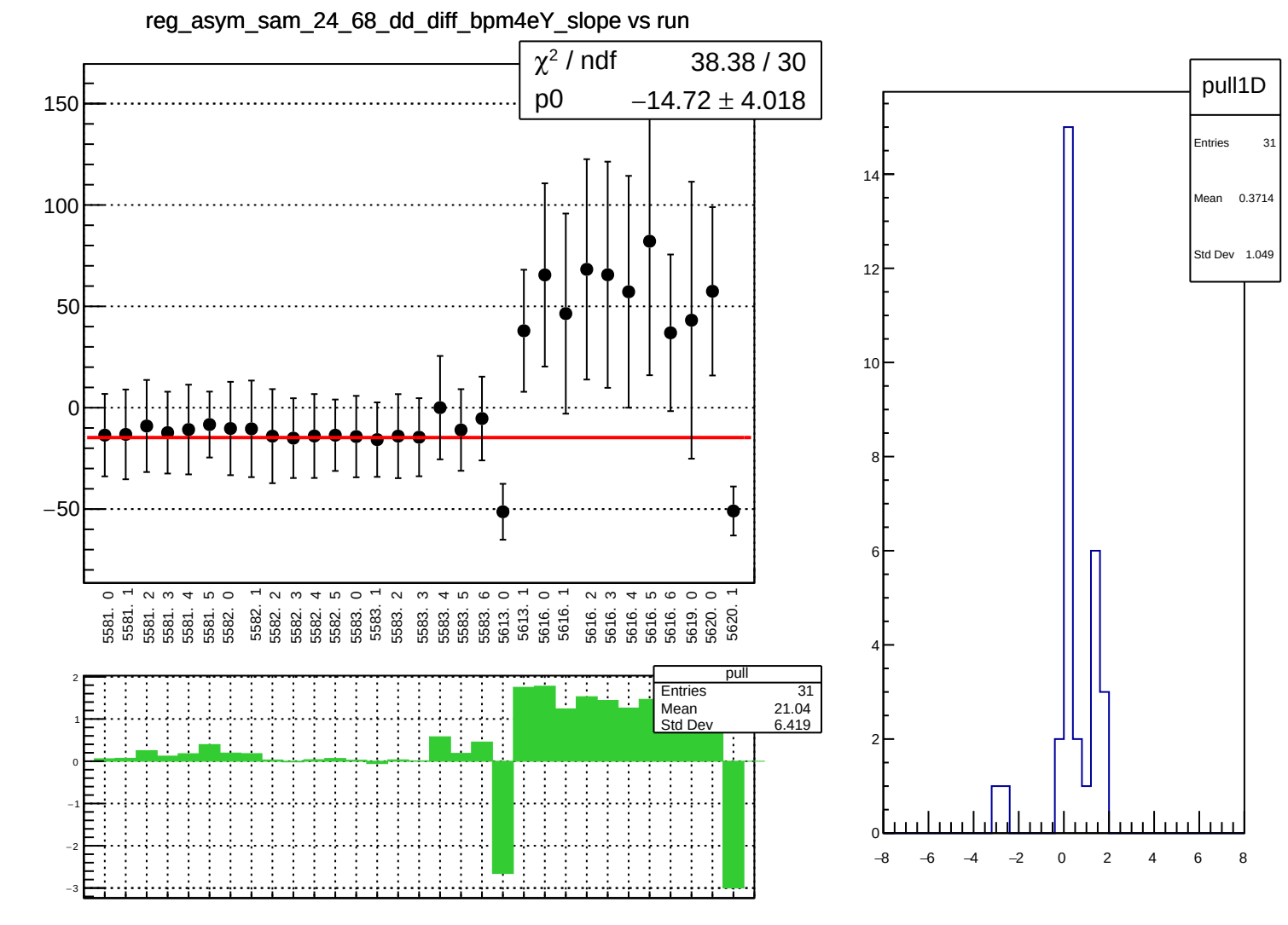
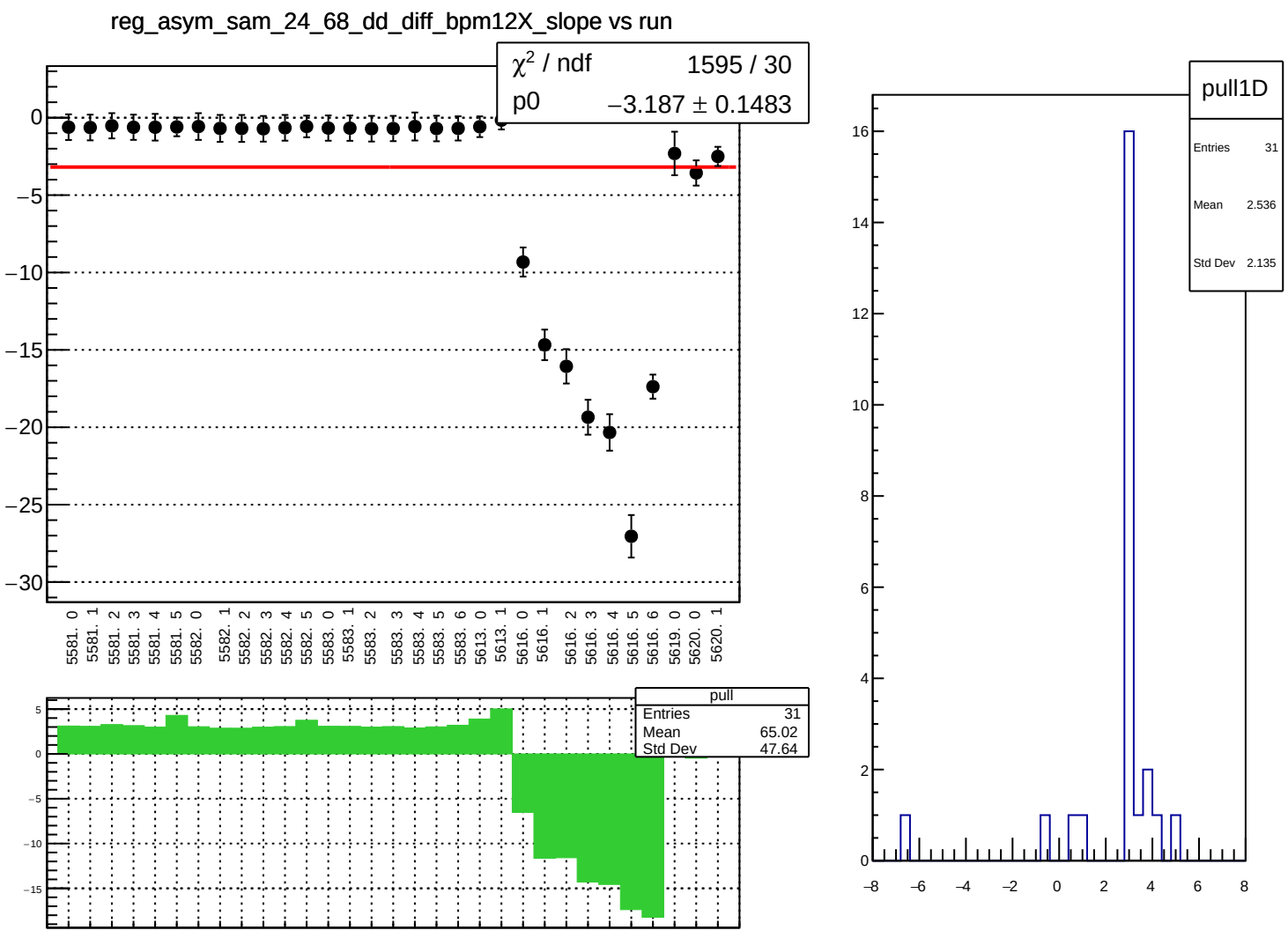
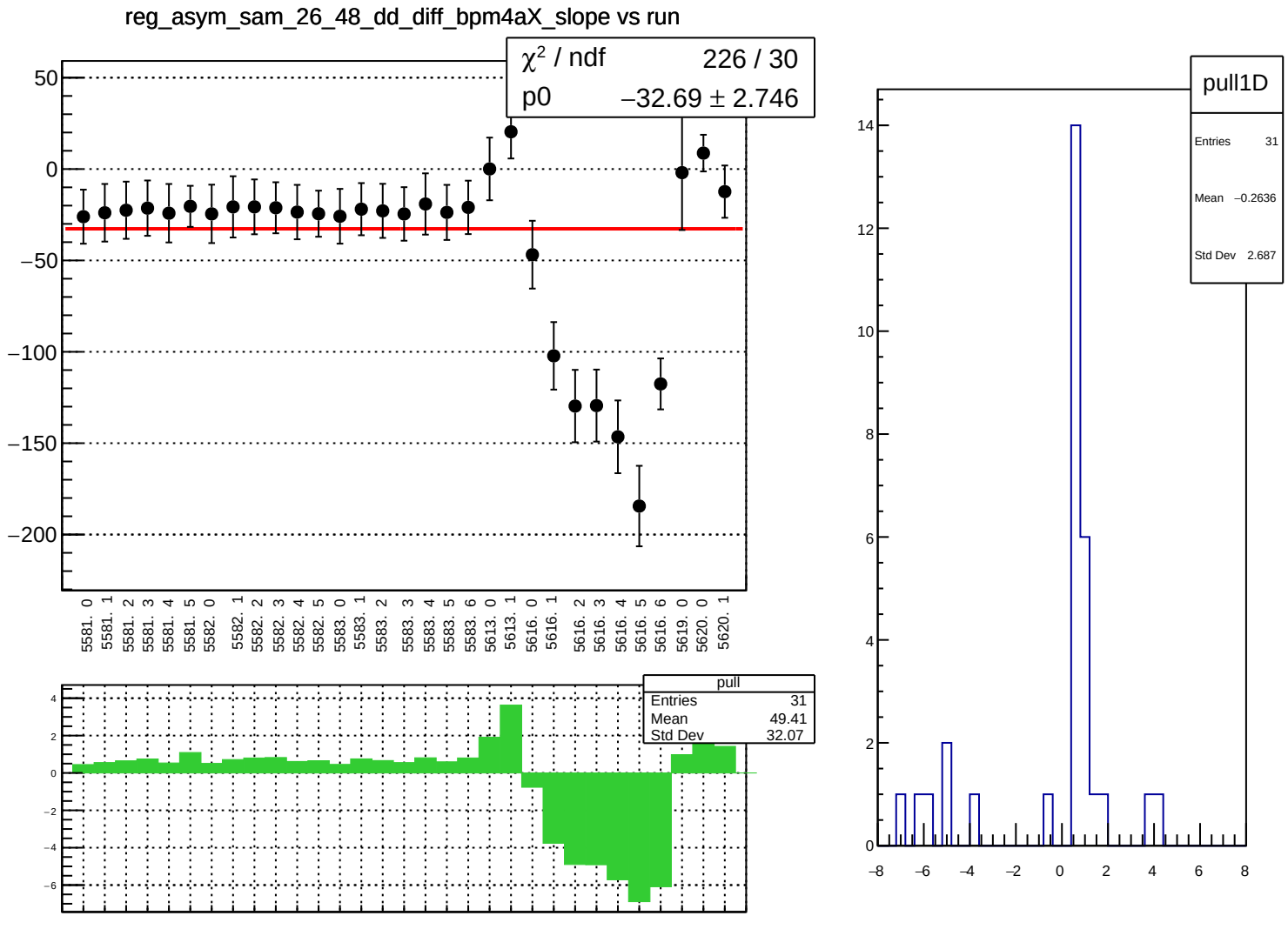
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 41
Std Dev 22.97
2
0
−2
−4
−6
−8
−10
pull1D
Entries 31
Mean 0.4176
Std Dev 2.546
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

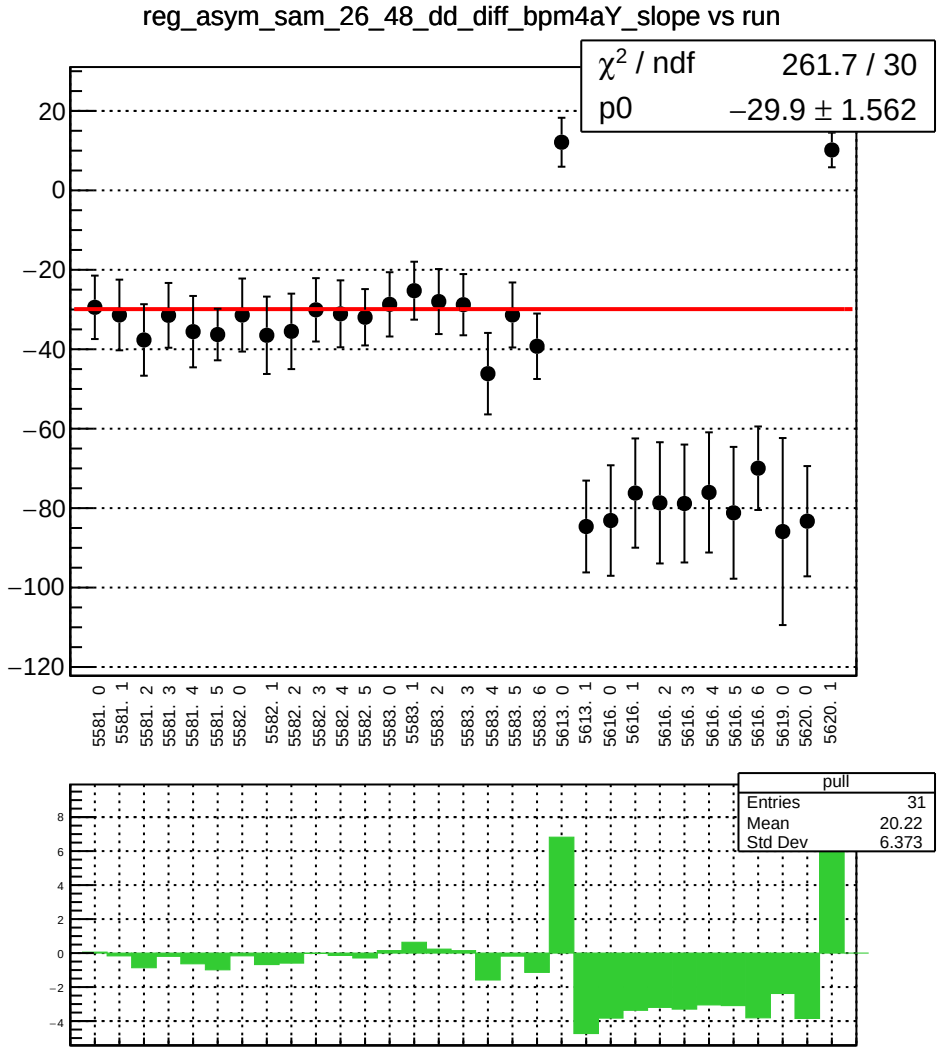

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 29.61 / 30
p0 −21.8 ± 3.049
20
0
−20
−40
−60
−80
−100
−120
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 15.68
Std Dev 7.226
3
2
1
0
−1
−2
pull1D
Entries 31
Mean −0.2898
Std Dev 0.9334
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

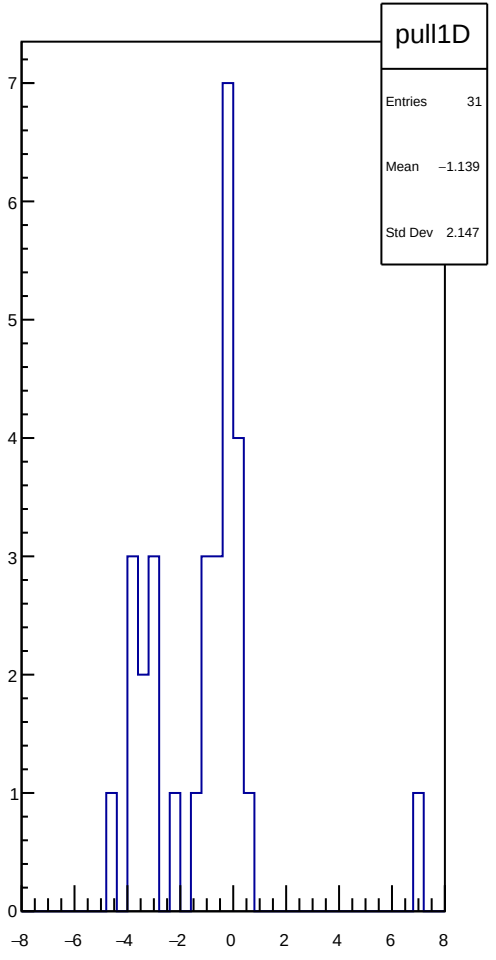

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 497.1 / 30
p0 −2.227 ± 5.347
700
600
500
400
300
200
100
0
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 38.91
Std Dev 20.71
10
8
6
4
2
0
−2
pull1D
Entries 31
Mean −0.3028
Std Dev 2.437
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

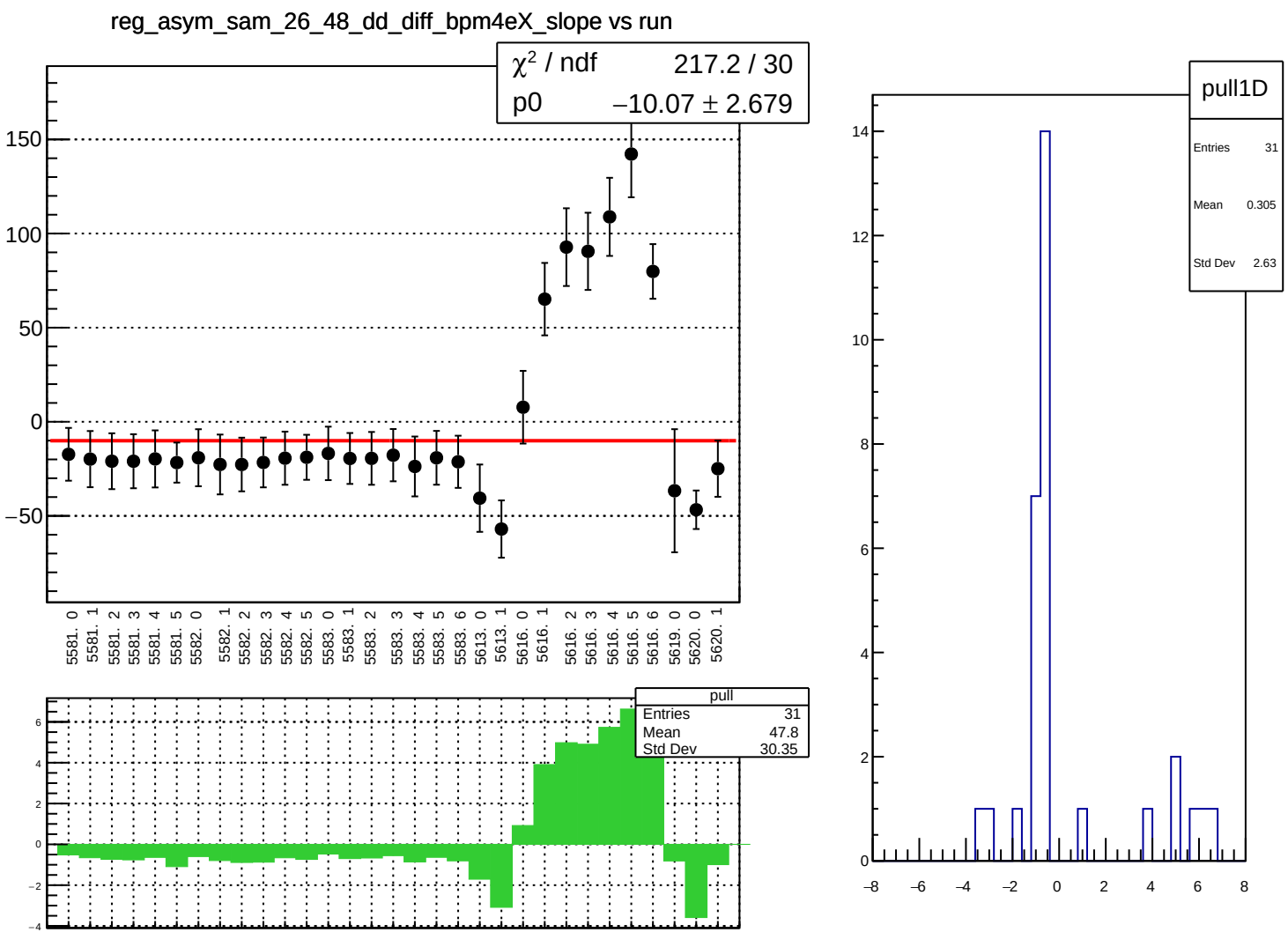

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 38.38 / 30
p0 −14.72 ± 4.018
150
100
50
0
−50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 21.04
Std Dev 6.419
2
1
0
−1
−2
−3
pull1D
Entries 31
Mean 0.3714
Std Dev 1.049
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

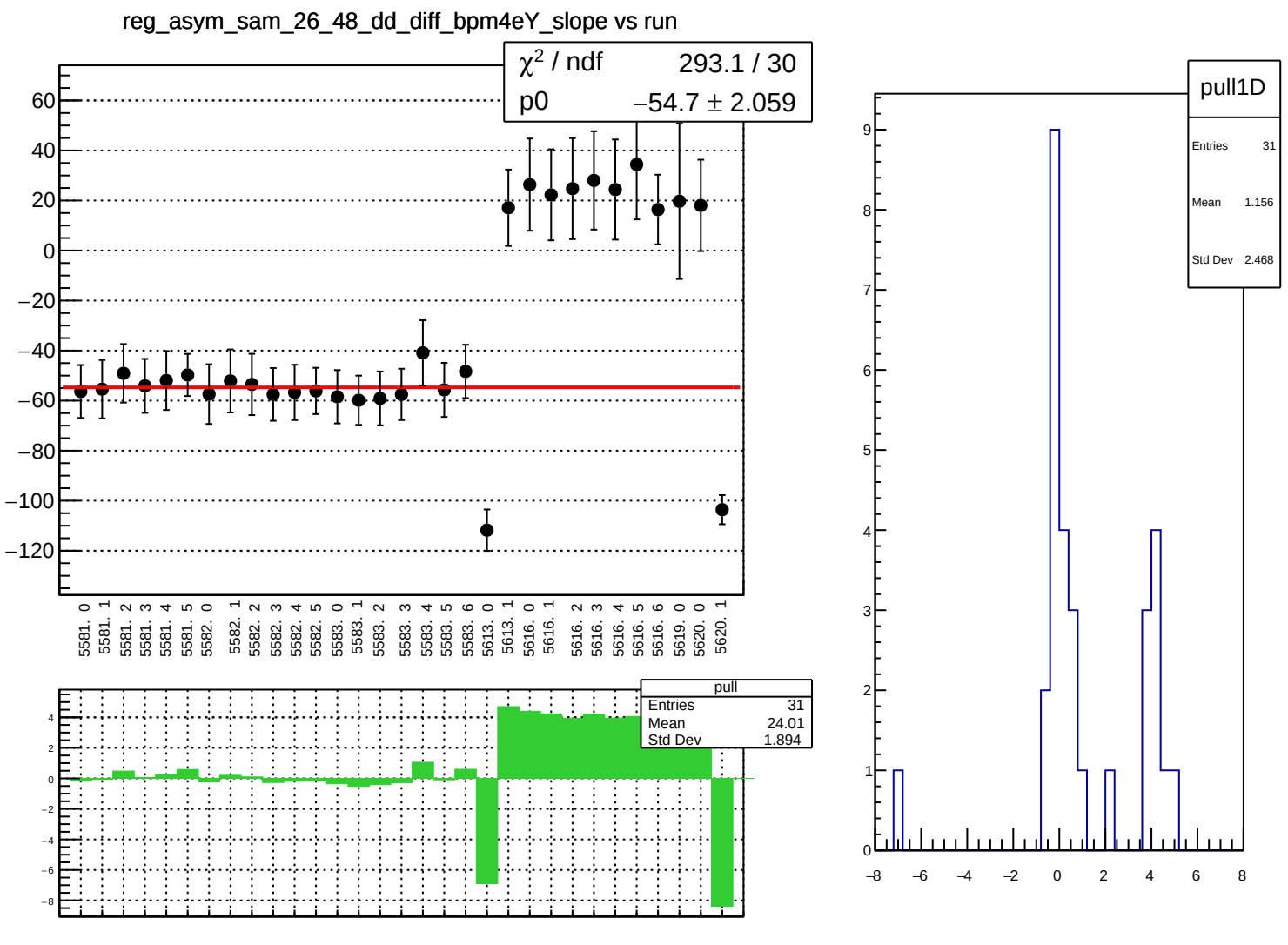

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 1595 / 30
p0 −3.187 ± 0.1483
0
−5
−10
−15
−20
−25
−30
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 65.02
Std Dev 47.64
5
0
−5
−10
−15
pull1D
Entries 31
Mean 2.536
Std Dev 2.135
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

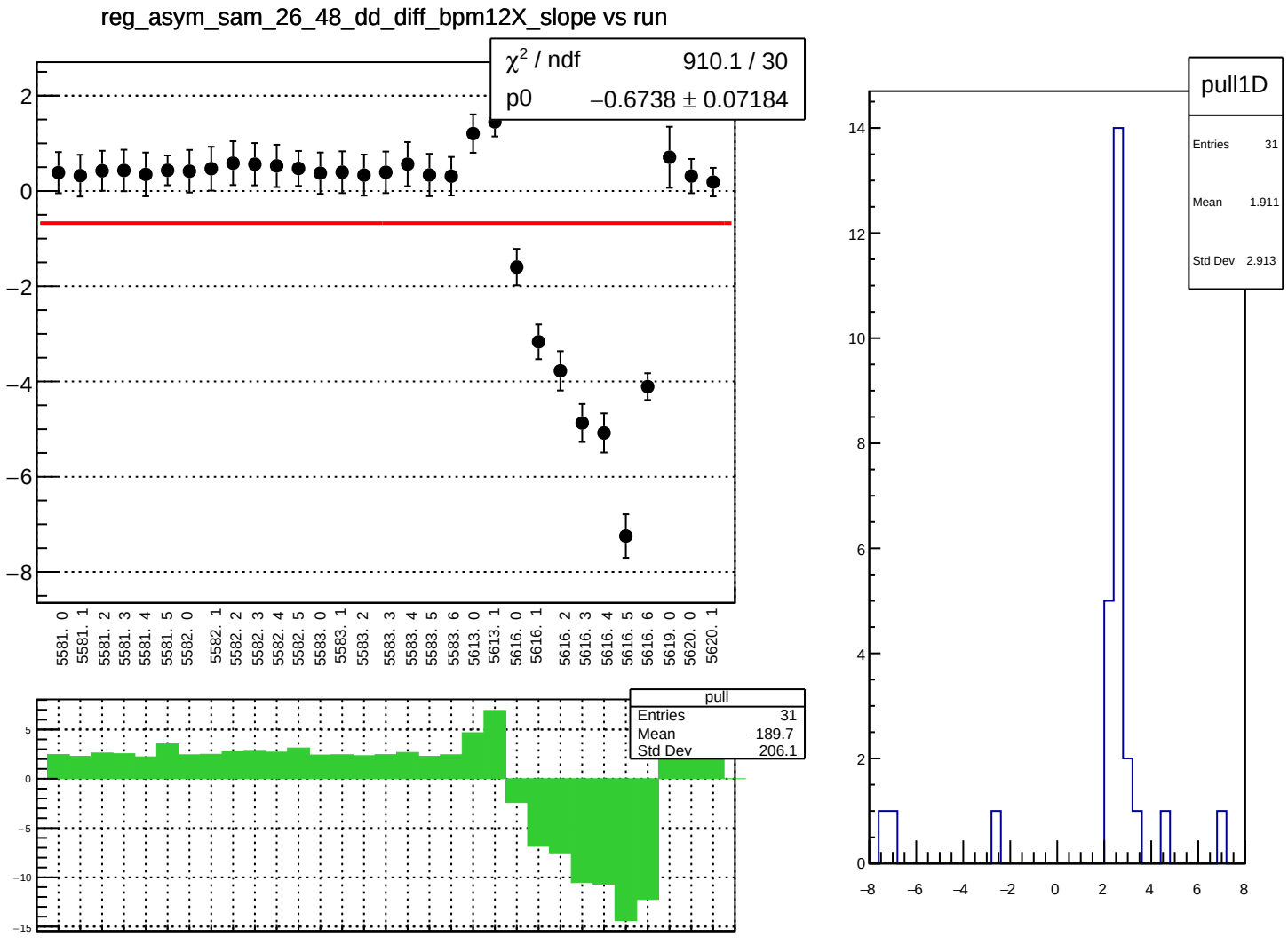

reg_asym_sam_26_48_dd_diff_bpm4aX_slope vs run
χ² / ndf 226 / 30
p0 −32.69 ± 2.746
50
0
−50
−100
−150
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 49.41
Std Dev 32.07
4
2
0
−2
−4
−6
pull1D
Entries 31
Mean −0.2636
Std Dev 2.687
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

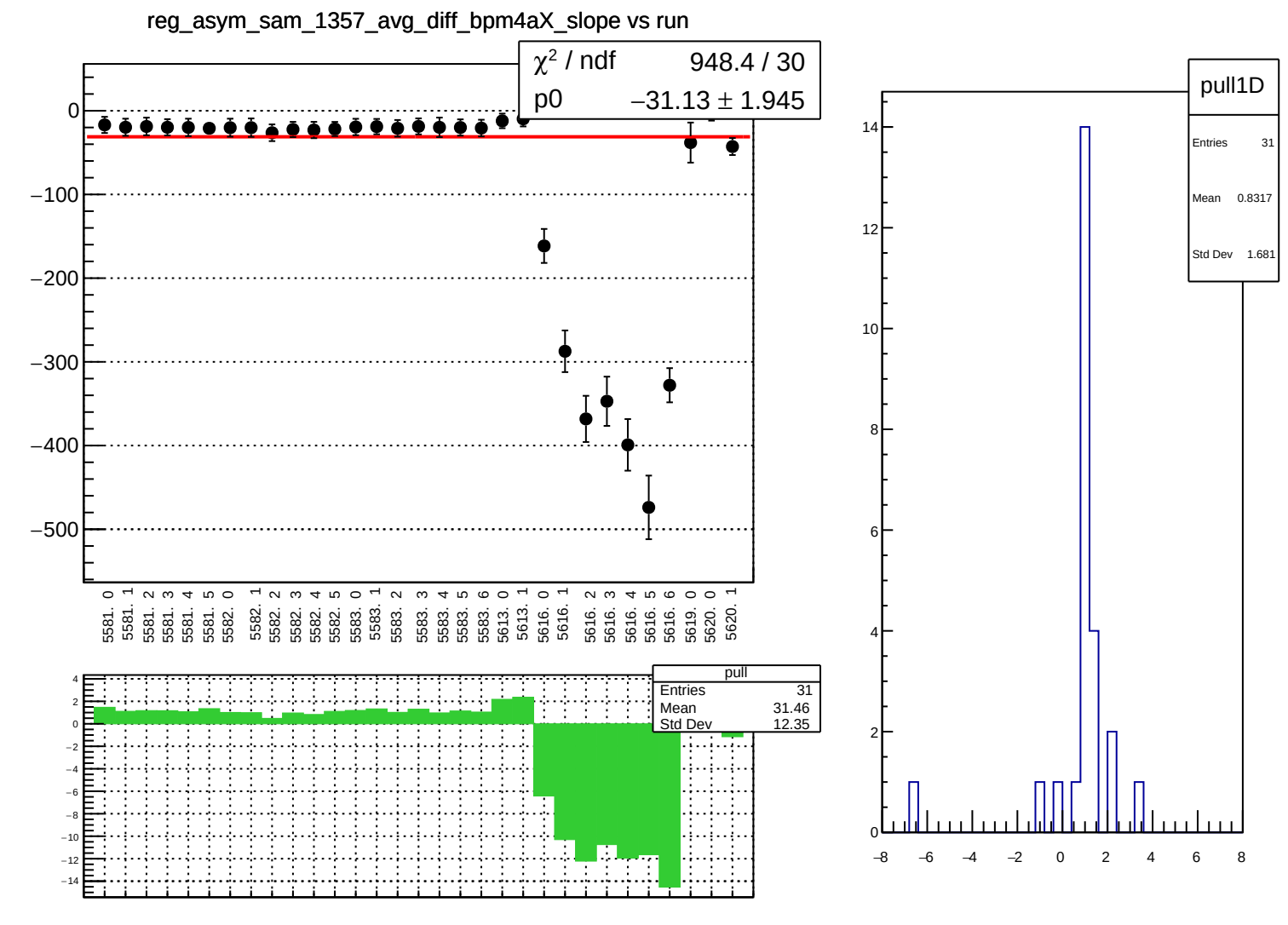

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 261.7 / 30
p0 −29.9 ± 1.562
20
0
−20
−40
−60
−80
−100
−120
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 20.22
Std Dev 6.373
8
6
4
2
0
−2
−4

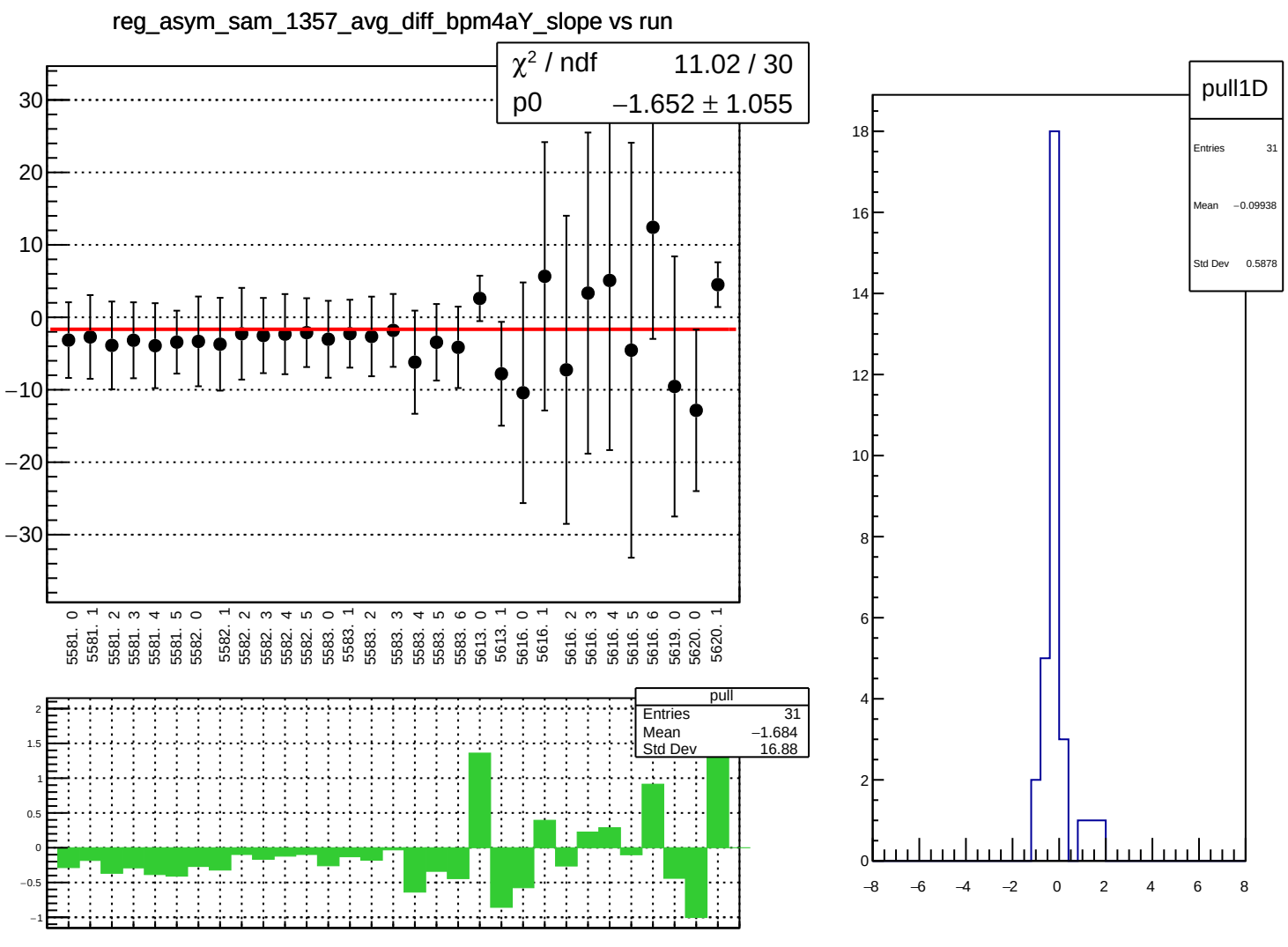

pull1D
Entries 31
Mean −1.139
Std Dev 2.147
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

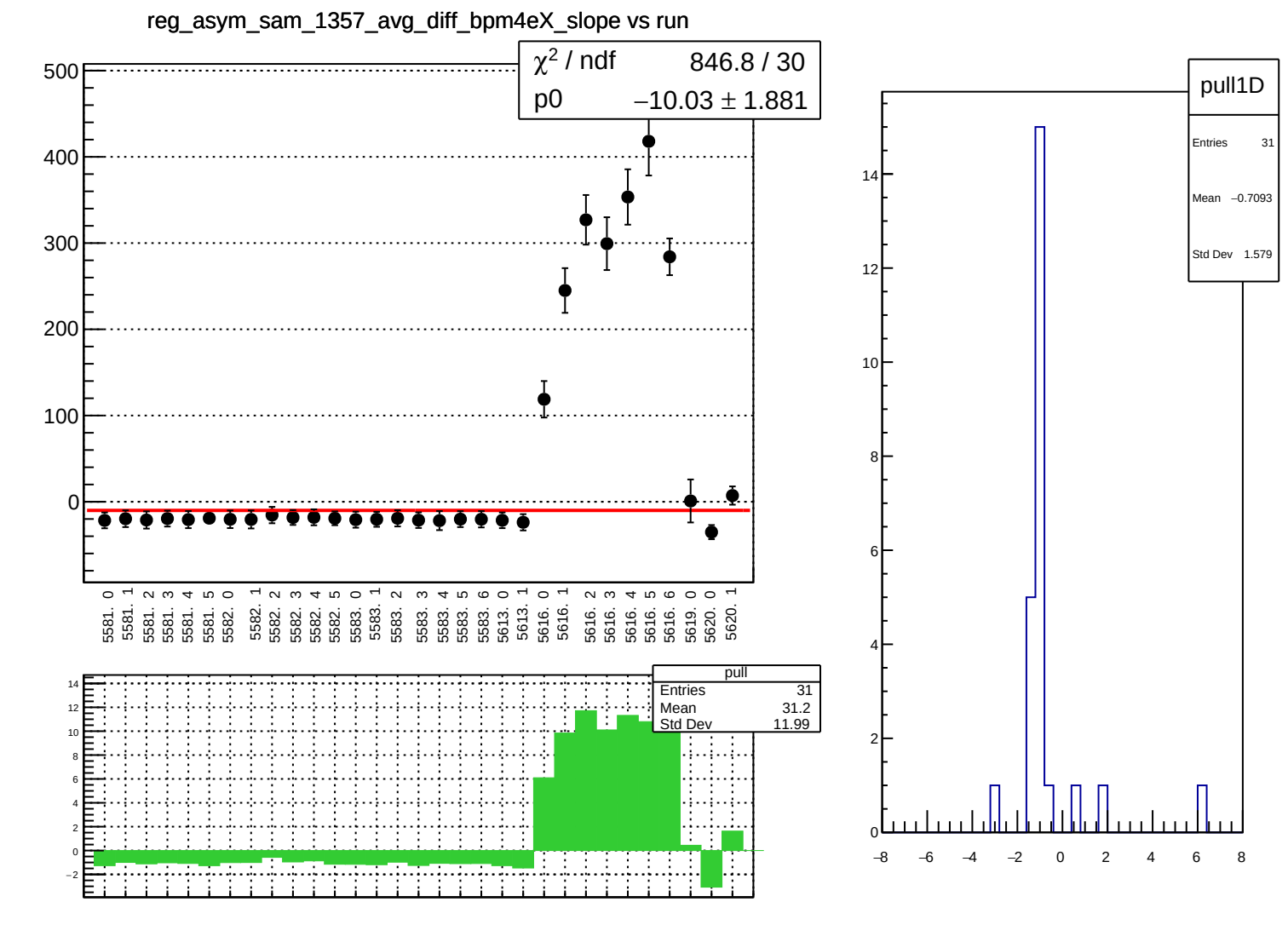

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 217.2 / 30
p0 −10.07 ± 2.679
150
100
50
0
−50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 47.8
Std Dev 30.35
6
4
2
0
−2
−4
pull1D
Entries 31
Mean 0.305
Std Dev 2.63
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

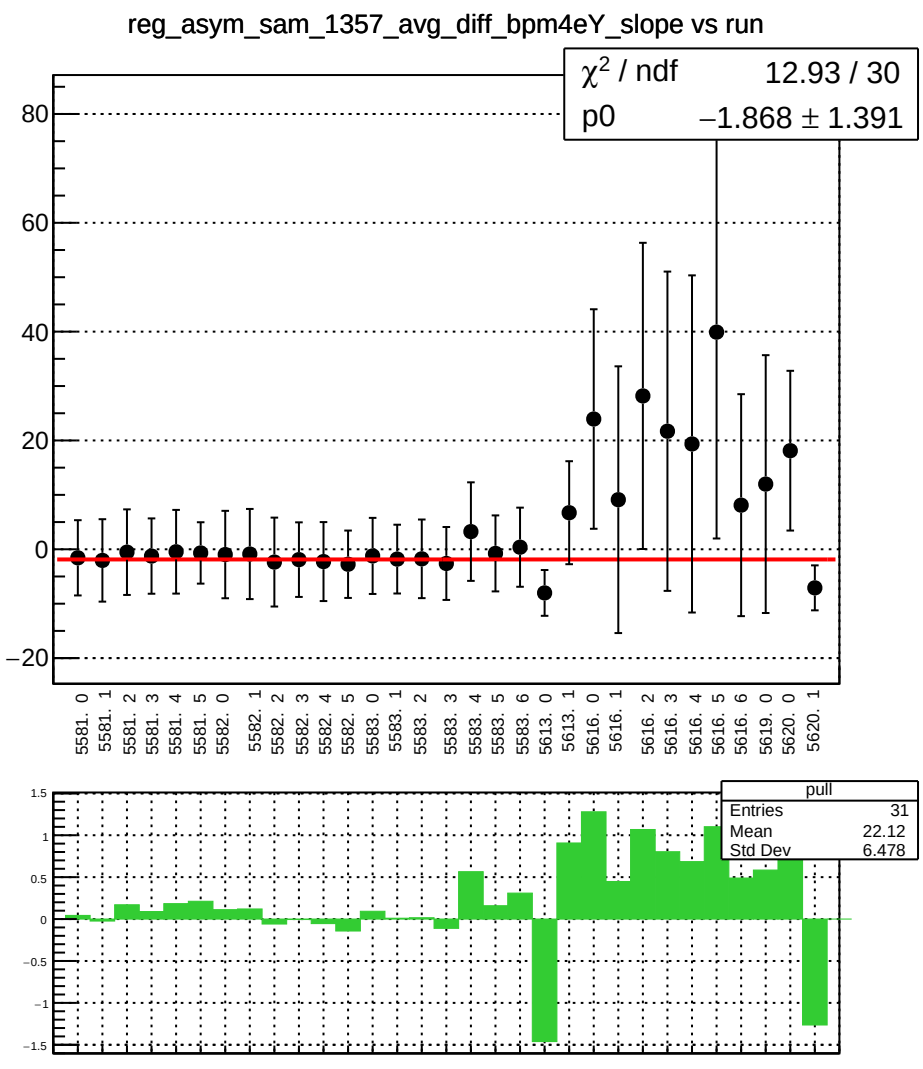

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 293.1 / 30
p0 −54.7 ± 2.059
60
40
20
0
−20
−40
−60
−80
−100
−120
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 24.01
Std Dev 1.894
4
2
0
−2
−4
−6
−8
pull1D
Entries 31
Mean 1.156
Std Dev 2.468
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

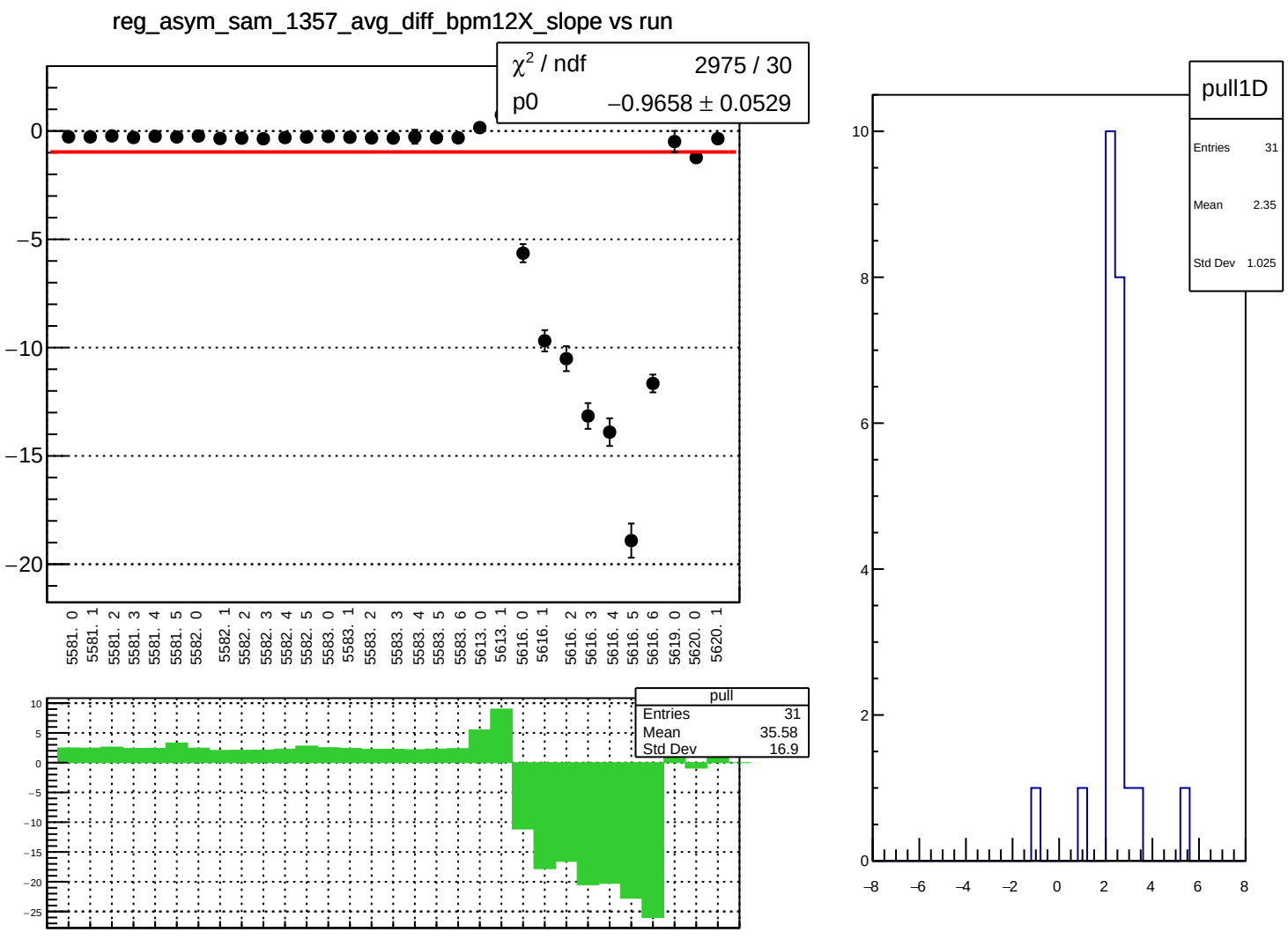

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 910.1 / 30
p0 −0.6738 ± 0.07184
2
0
−2
−4
−6
−8
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −189.7
Std Dev 206.1
5
0
−5
−10
−15
pull1D
Entries 31
Mean 1.911
Std Dev 2.913
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

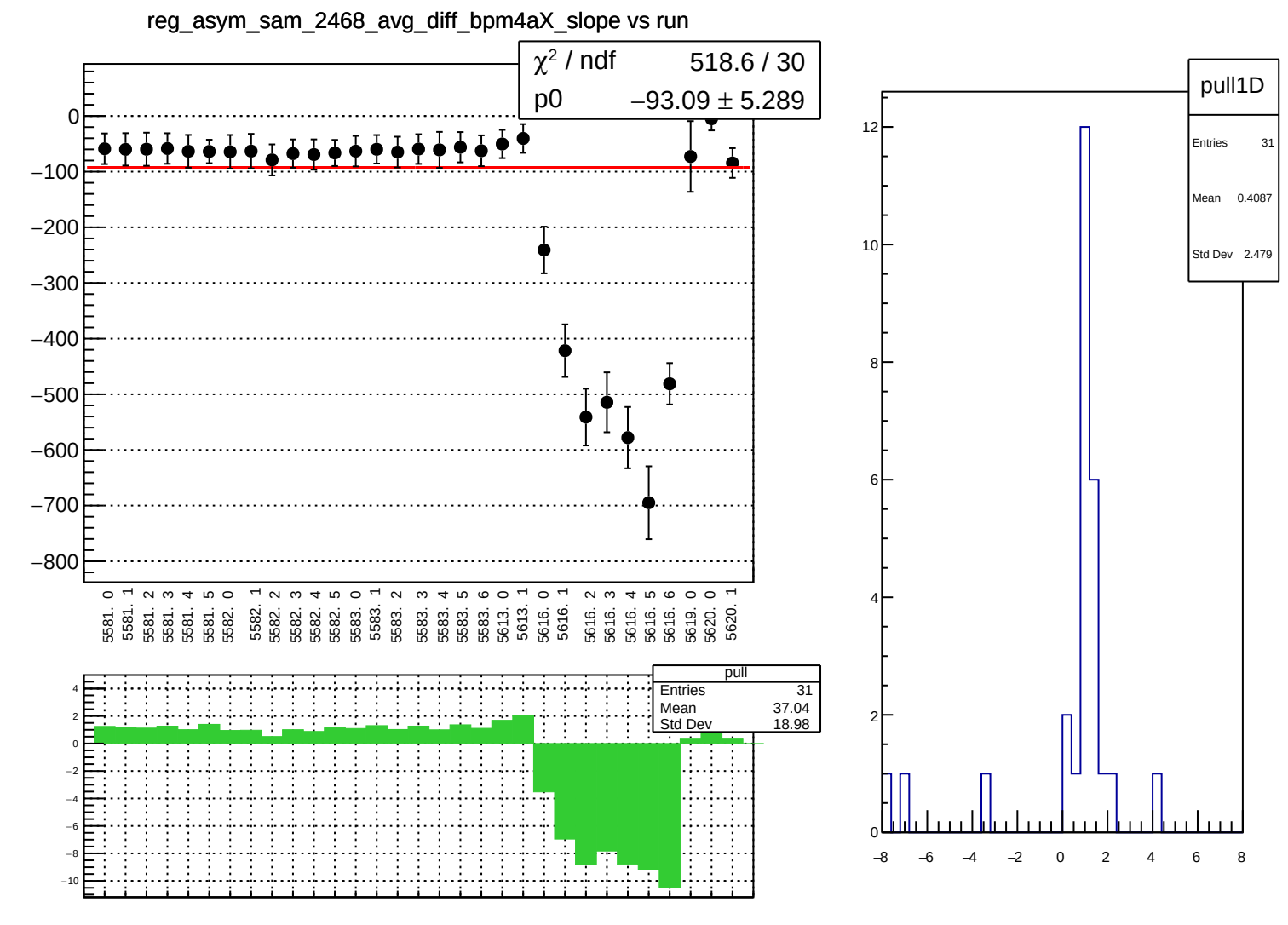

reg_asym_sam_1357_avg_diff_bpm4aX_slope vs run
χ² / ndf 948.4 / 30
p0 −31.13 ± 1.945
0
−100
−200
−300
−400
−500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 31.46
Std Dev 12.35
4
2
0
−2
−4
−6
−8
−10
−12
−14
pull1D
Entries 31
Mean 0.8317
Std Dev 1.681
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

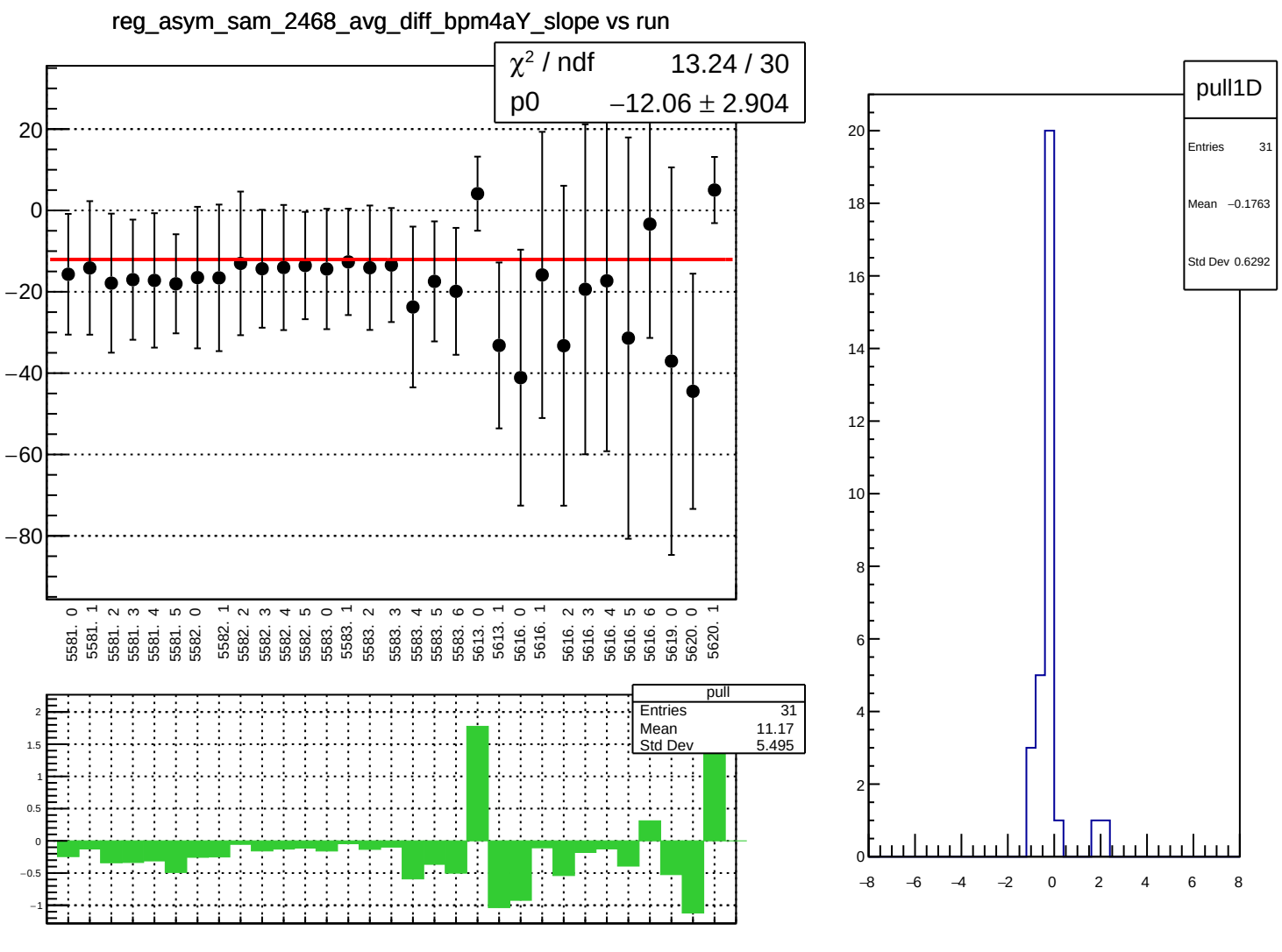

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.02 / 30
p0 −1.652 ± 1.055
pull
Entries 31
Mean −1.684
Std Dev 16.88
pull1D
Entries 31
Mean −0.09938
Std Dev 0.5878

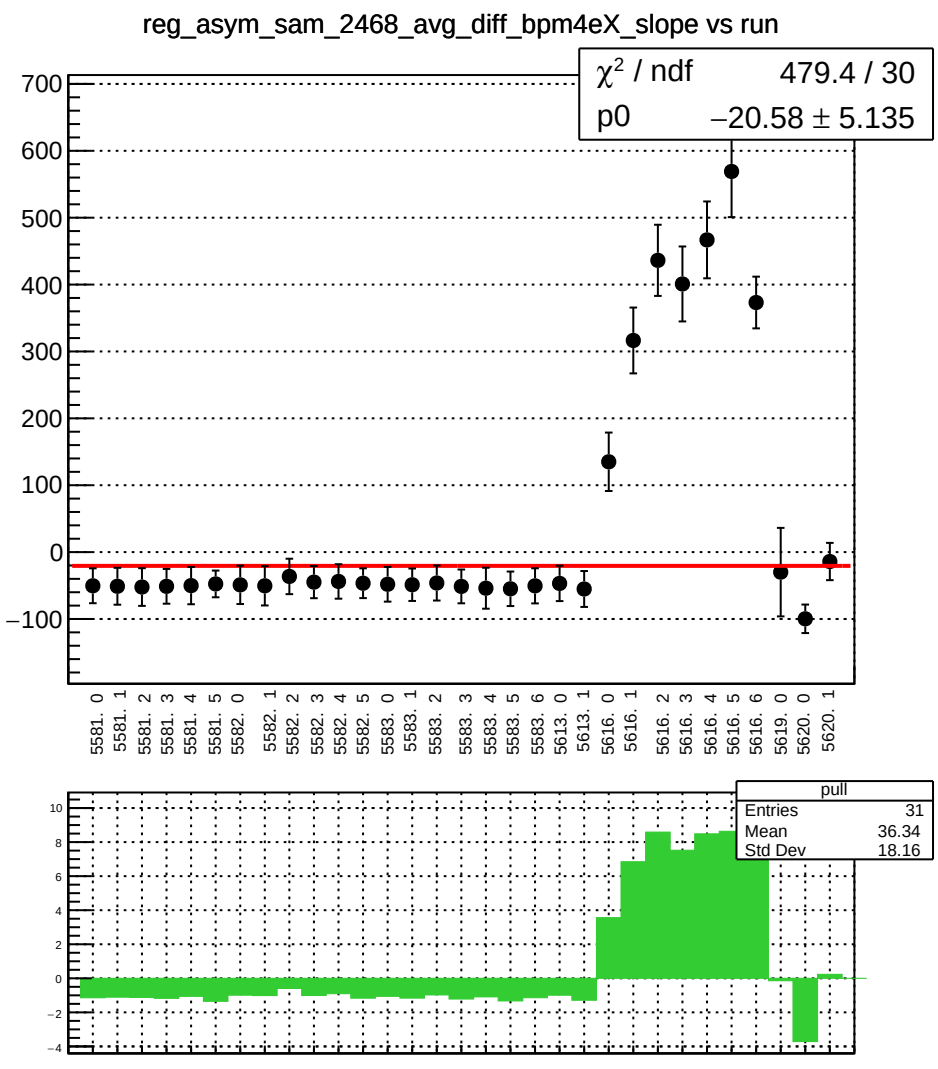

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 846.8 / 30
p0 −10.03 ± 1.881
500
400
300
200
100
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 31.2
Std Dev 11.99
14
12
10
8
6
4
2
0
−2
pull1D
Entries 31
Mean −0.7093
Std Dev 1.579
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

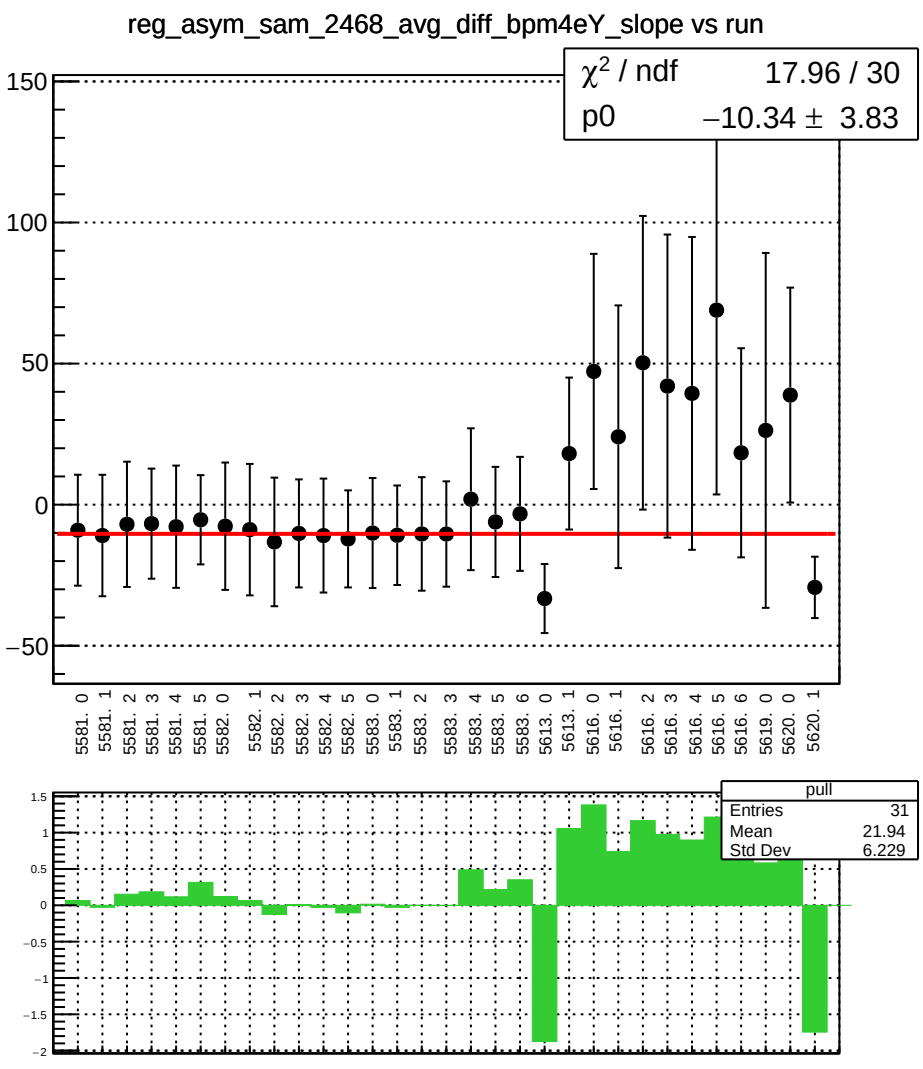

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 12.93 / 30
p0 −1.868 ± 1.391
80
60
40
20
0
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 22.12
Std Dev 6.478
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.2481
Std Dev 0.5963
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

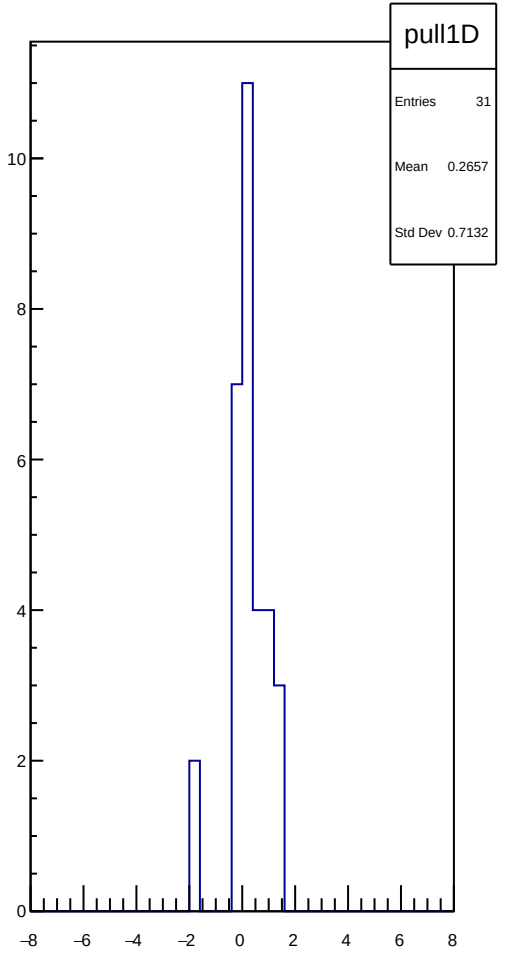

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 2975 / 30
p0 −0.9658 ± 0.0529
0
−5
−10
−15
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 35.58
Std Dev 16.9
10
5
0
−5
−10
−15
−20
−25
pull1D
Entries 31
Mean 2.35
Std Dev 1.025
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

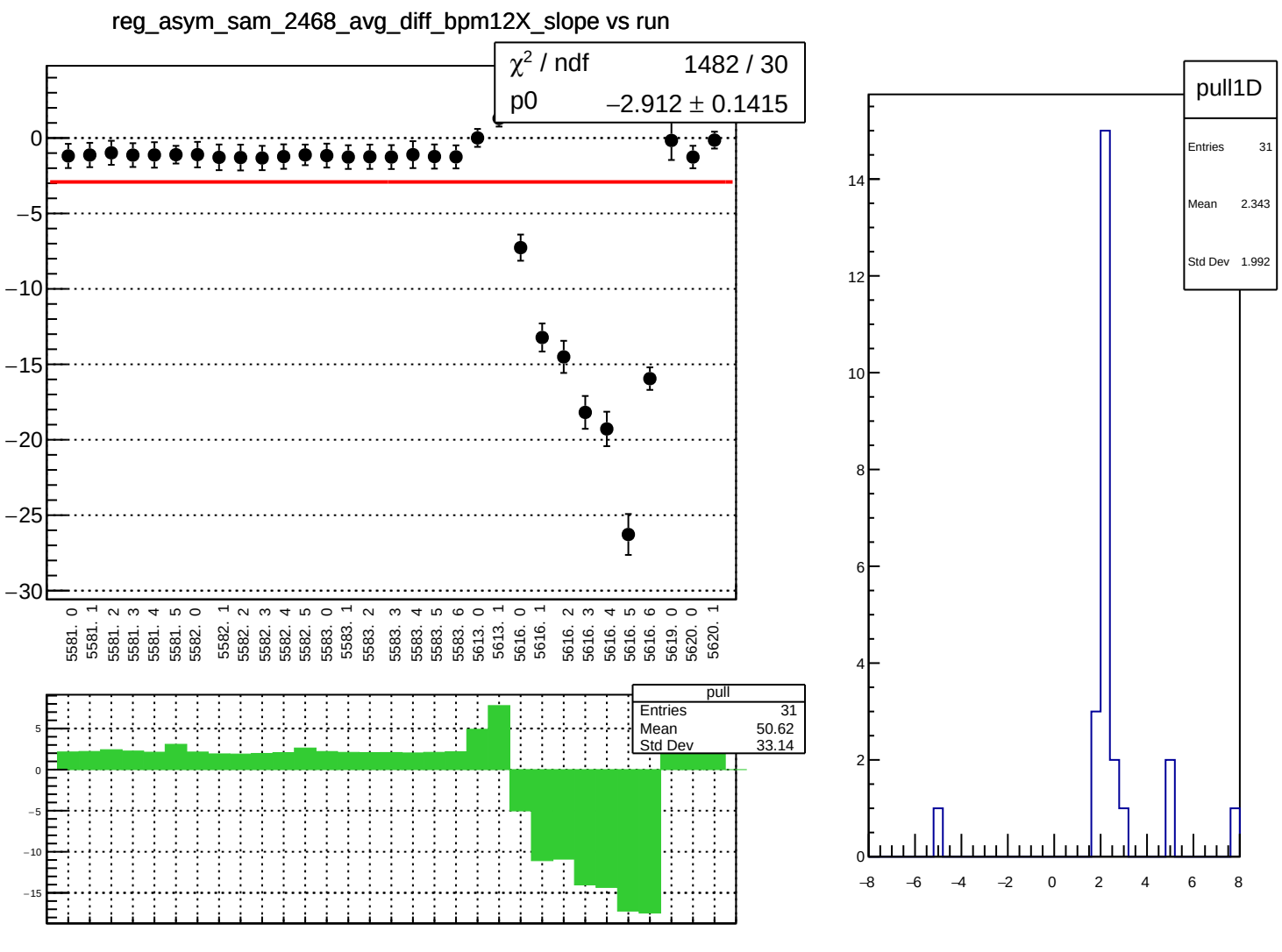

reg_asym_sam_2468_avg_diff_bpm4aX_slope vs run
χ² / ndf 518.6 / 30
p0 −93.09 ± 5.289
0
−100
−200
−300
−400
−500
−600
−700
−800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 37.04
Std Dev 18.98
4
2
0
−2
−4
−6
−8
−10
pull1D
Entries 31
Mean 0.4087
Std Dev 2.479
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

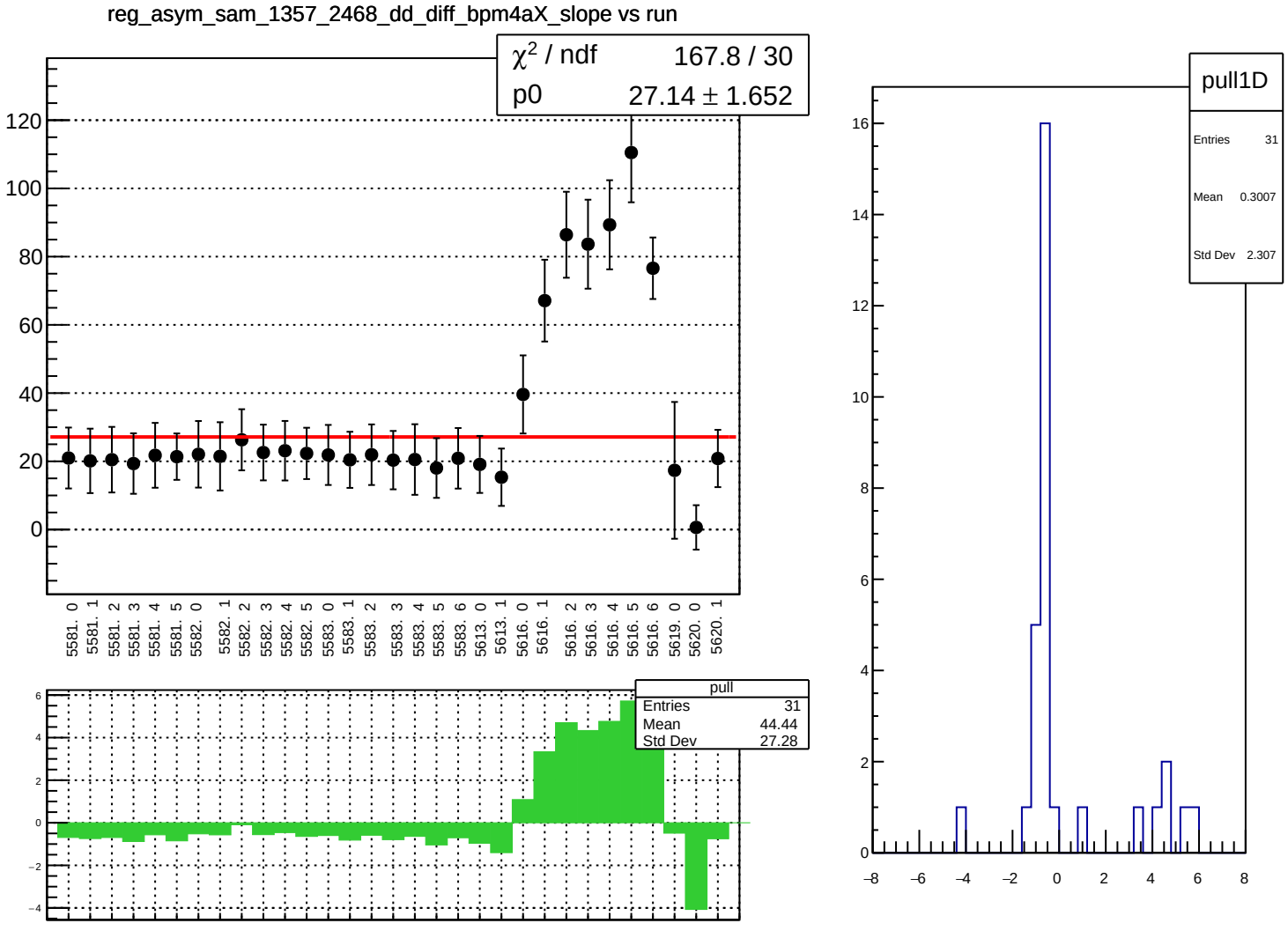

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 13.24 / 30
p0 −12.06 ± 2.904
20
0
−20
−40
−60
−80
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 11.17
Std Dev 5.495
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 31
Mean −0.1763
Std Dev 0.6292
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

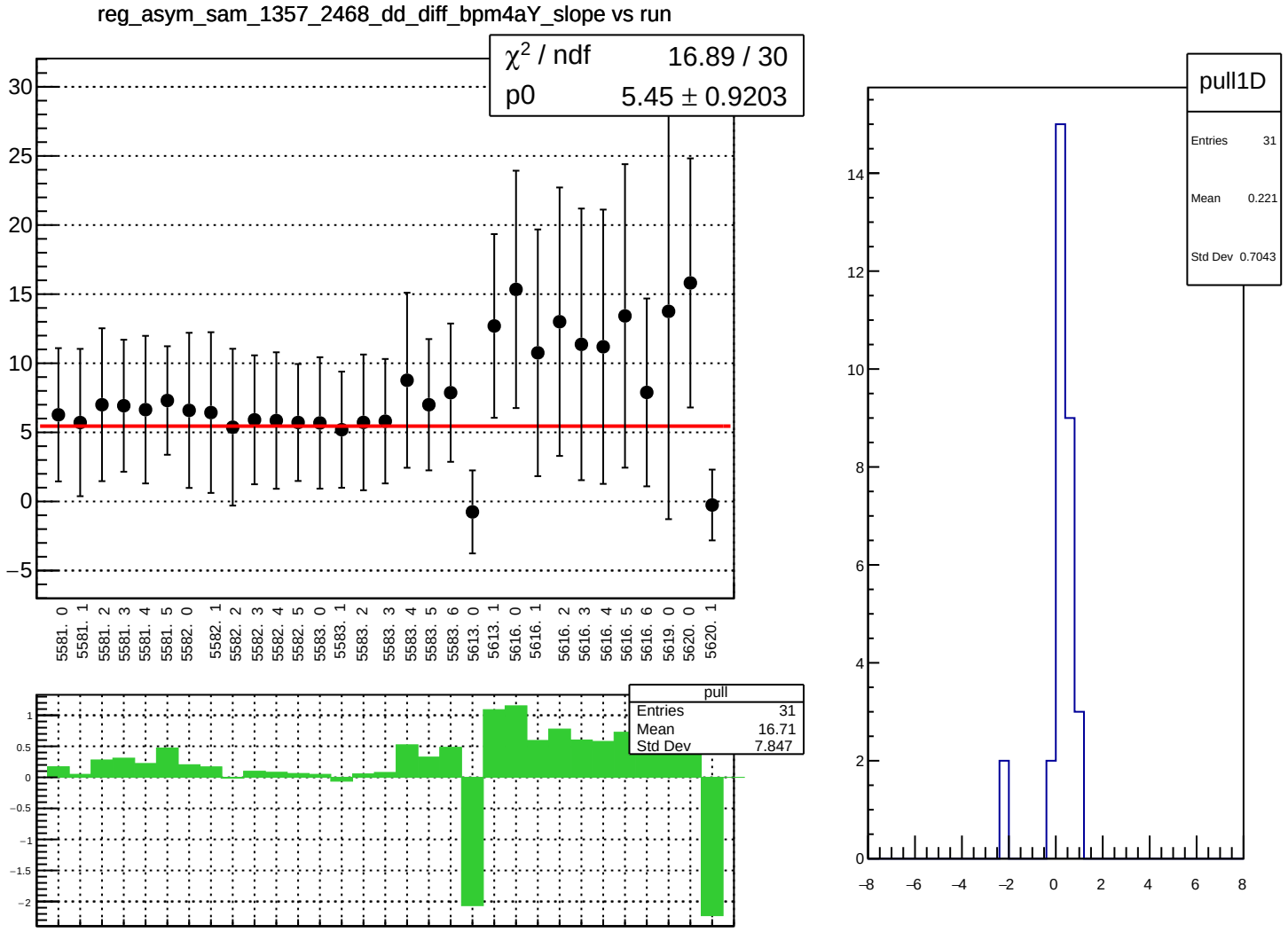

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 479.4 / 30
p0 −20.58 ± 5.135
700
600
500
400
300
200
100
0
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 36.34
Std Dev 18.16
10
8
6
4
2
0
−2
−4
pull1D
Entries 31
Mean −0.3177
Std Dev 2.379
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

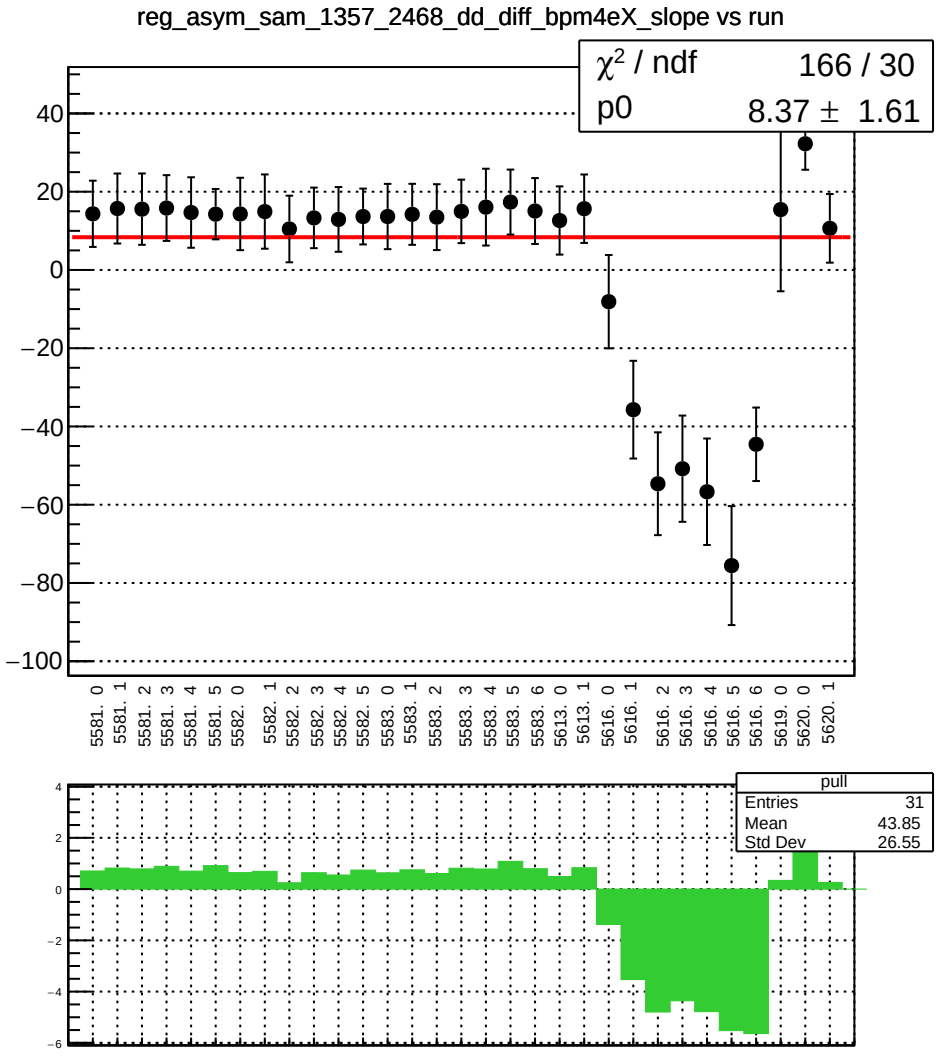

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 17.96 / 30
p0 −10.34 ± 3.83
150
100
50
0
−50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 21.94
Std Dev 6.229
1.5
1
0.5
0
−0.5
−1
−1.5
−2

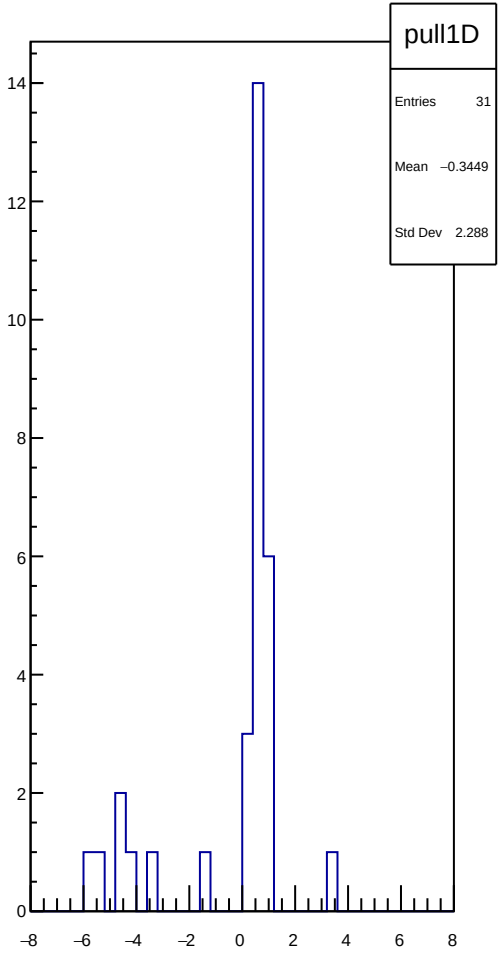

pull1D
Entries 31
Mean 0.2657
Std Dev 0.7132
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

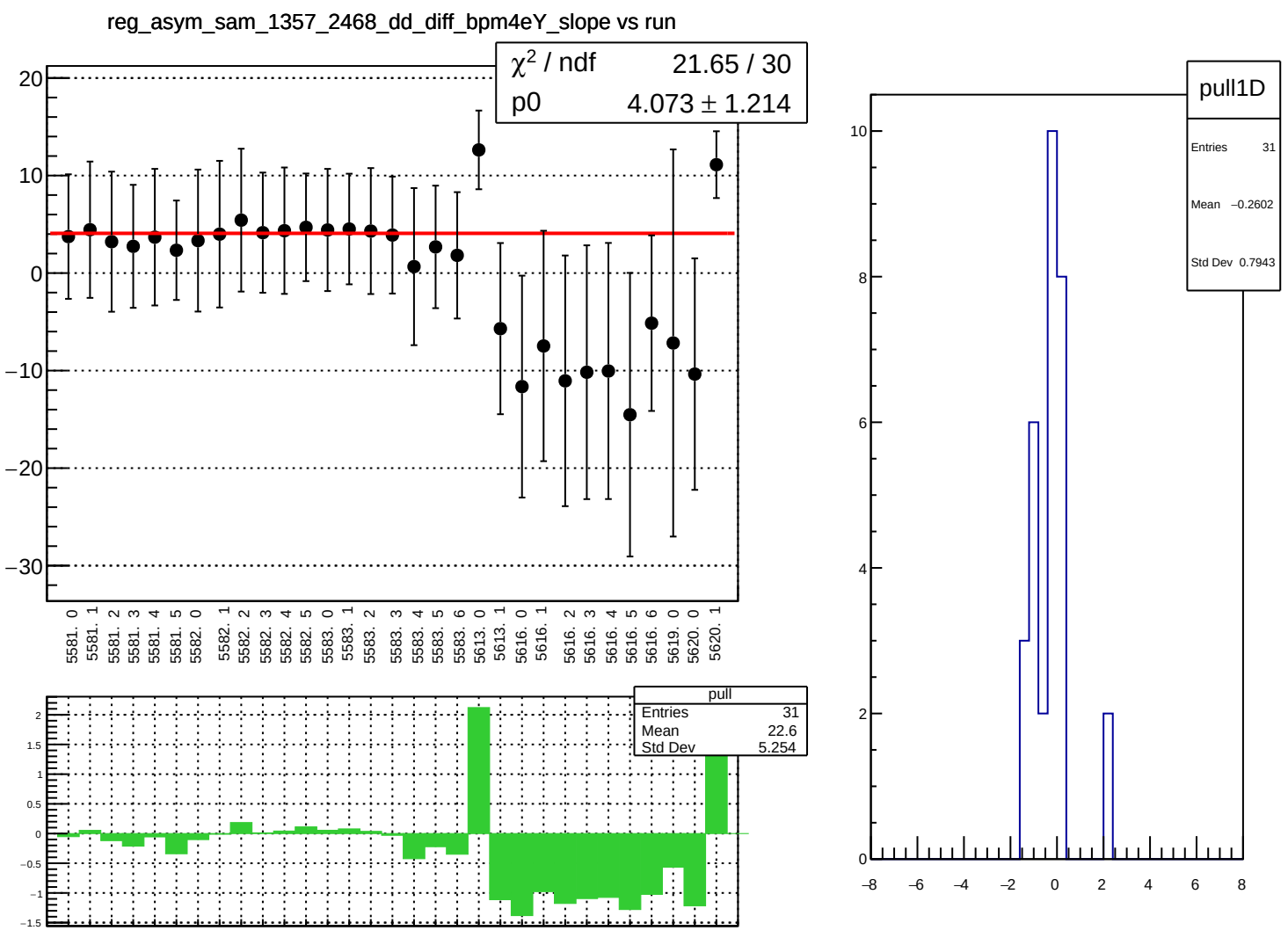

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 1482 / 30
p0 −2.912 ± 0.1415
0
−5
−10
−15
−20
−25
−30
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 50.62
Std Dev 33.14
5
0
−5
−10
−15
pull1D
Entries 31
Mean 2.343
Std Dev 1.992
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

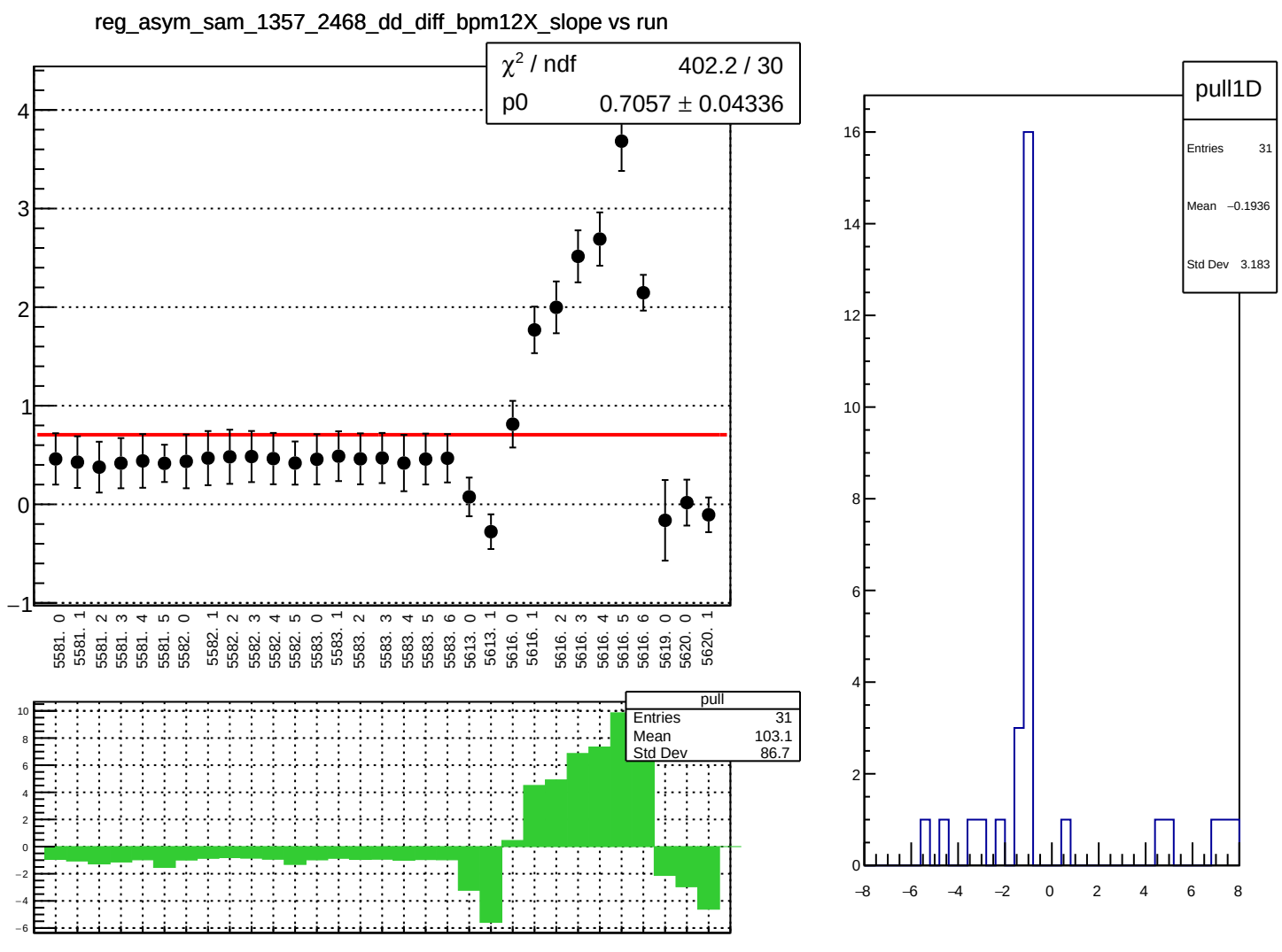

reg_asym_sam_1357_2468_dd_diff_bpm4aX_slope vs run
χ² / ndf 167.8 / 30
p0 27.14 ± 1.652
120
100
80
60
40
20
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 44.44
Std Dev 27.28
6
4
2
0
−2
−4
pull1D
Entries 31
Mean 0.3007
Std Dev 2.307
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

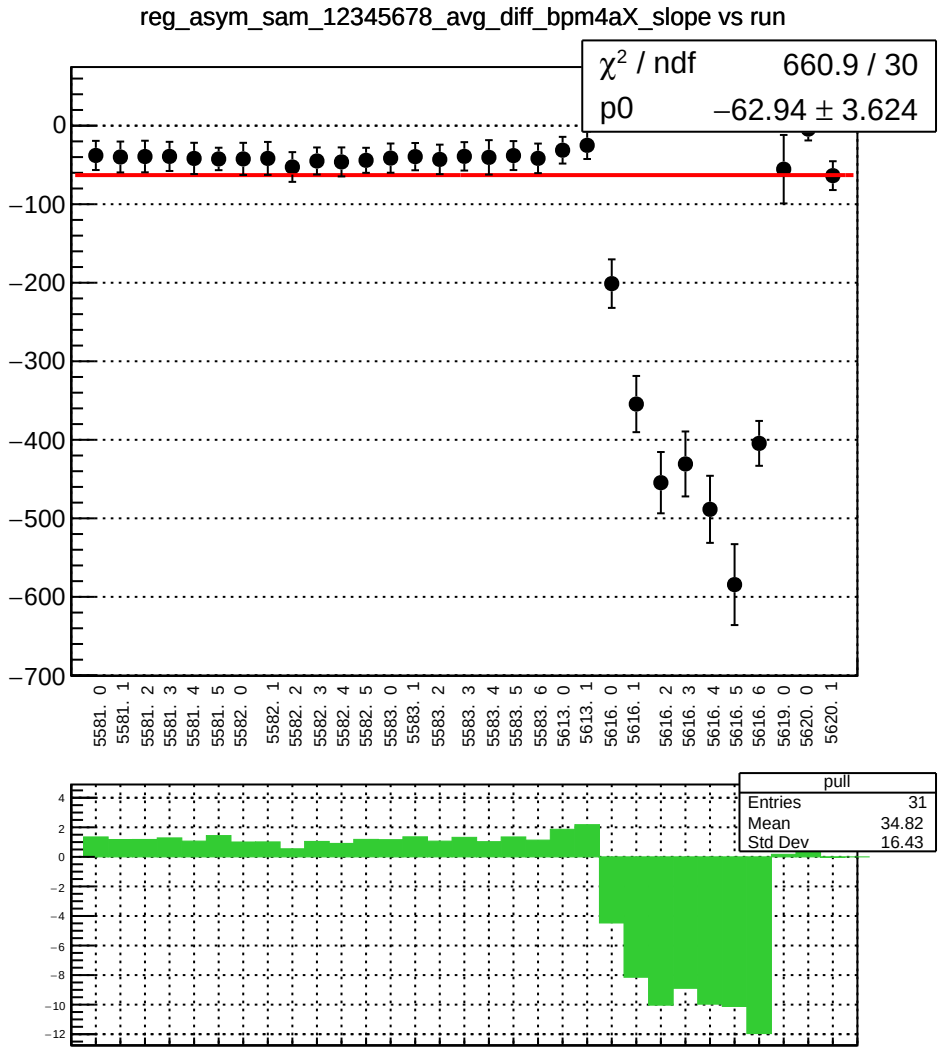

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 16.89 / 30
p0 5.45 ± 0.9203
30
25
20
15
10
5
0
−5
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 16.71
Std Dev 7.847
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean 0.221
Std Dev 0.7043
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

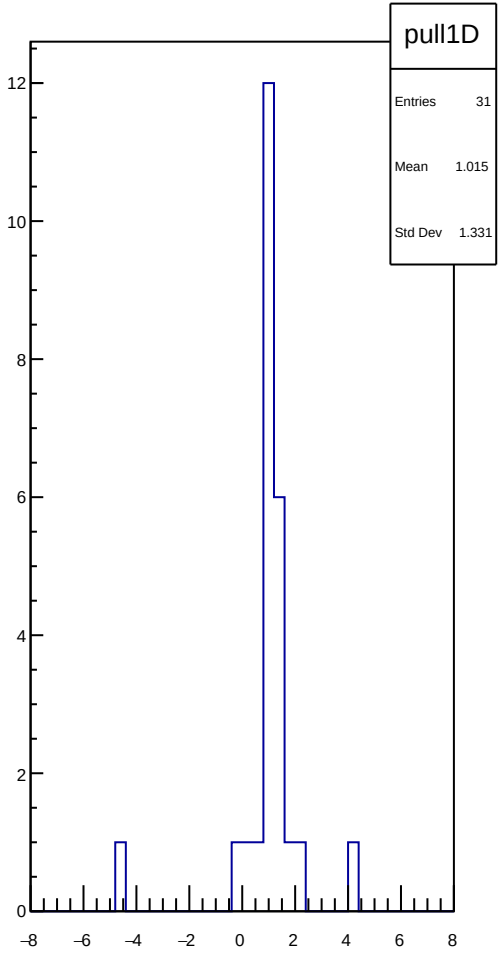

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 166 / 30
p0 8.37 ± 1.61
pull
Entries 31
Mean 43.85
Std Dev 26.55

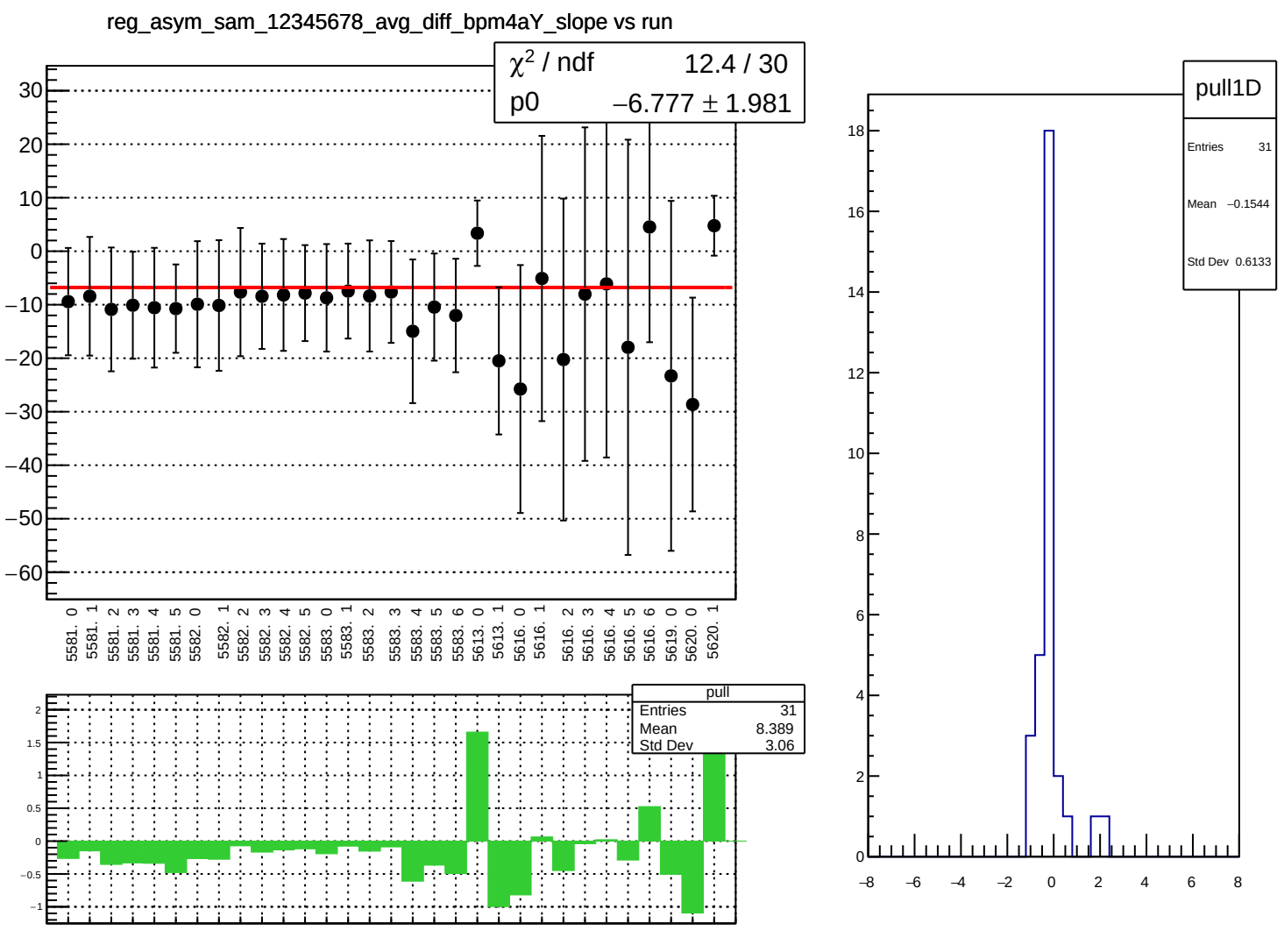

pull1D
Entries 31
Mean −0.3449
Std Dev 2.288

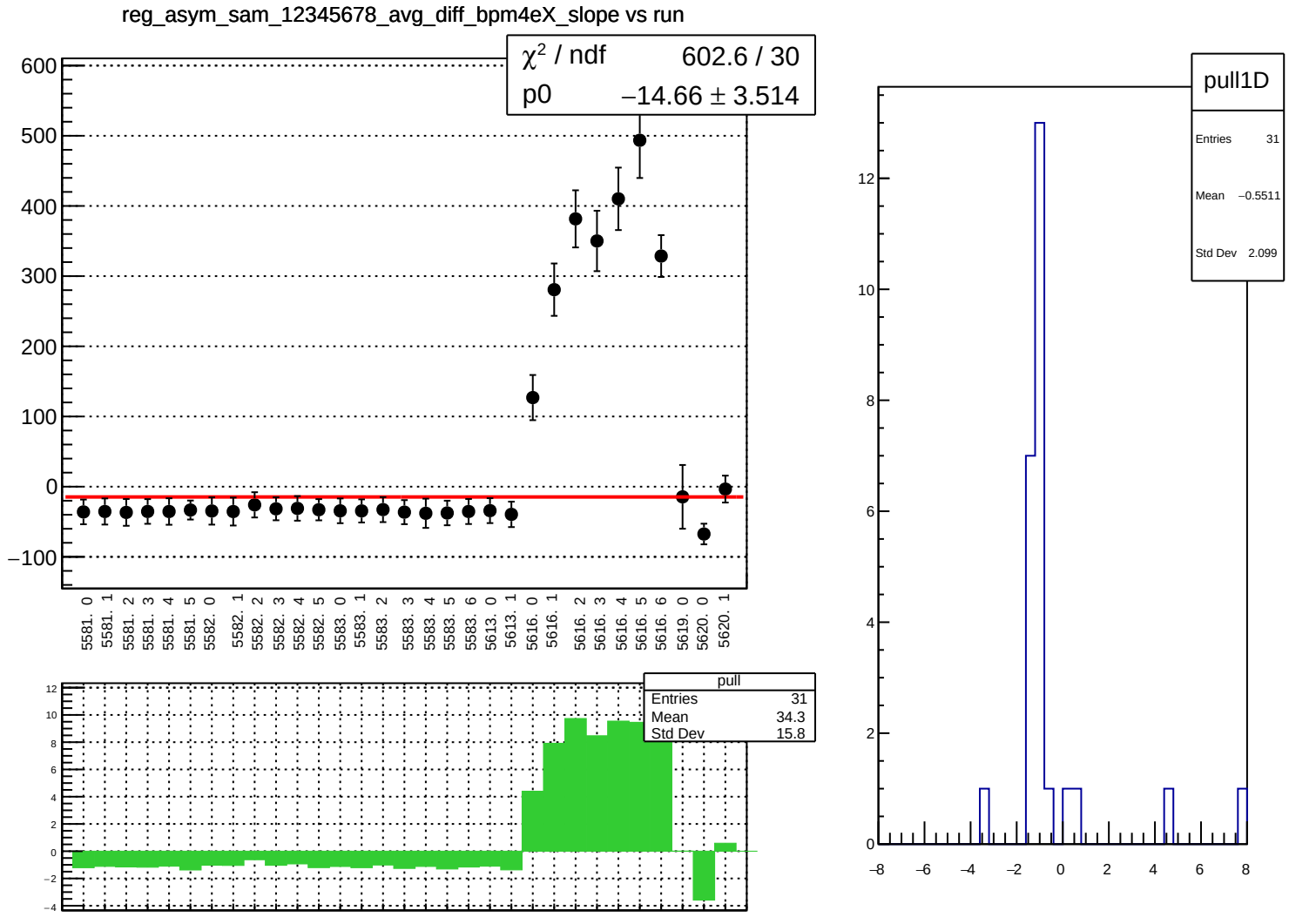

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 21.65 / 30
p0 4.073 ± 1.214
pull
Entries 31
Mean 22.6
Std Dev 5.254
pull1D
Entries 31
Mean −0.2602
Std Dev 0.7943

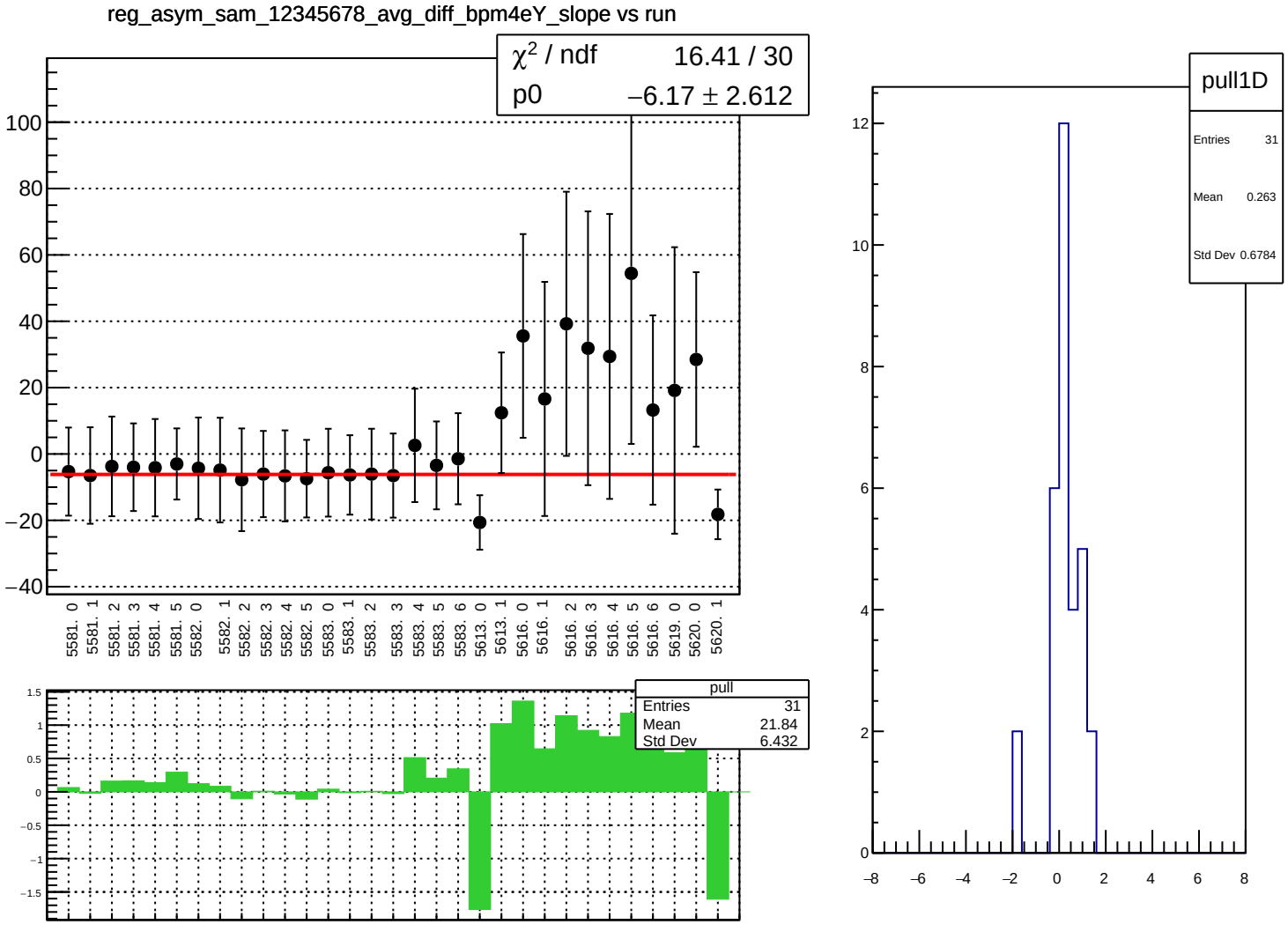

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 402.2 / 30
p0 0.7057 ± 0.04336
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 103.1
Std Dev 86.7
pull1D
Entries 31
Mean −0.1936
Std Dev 3.183

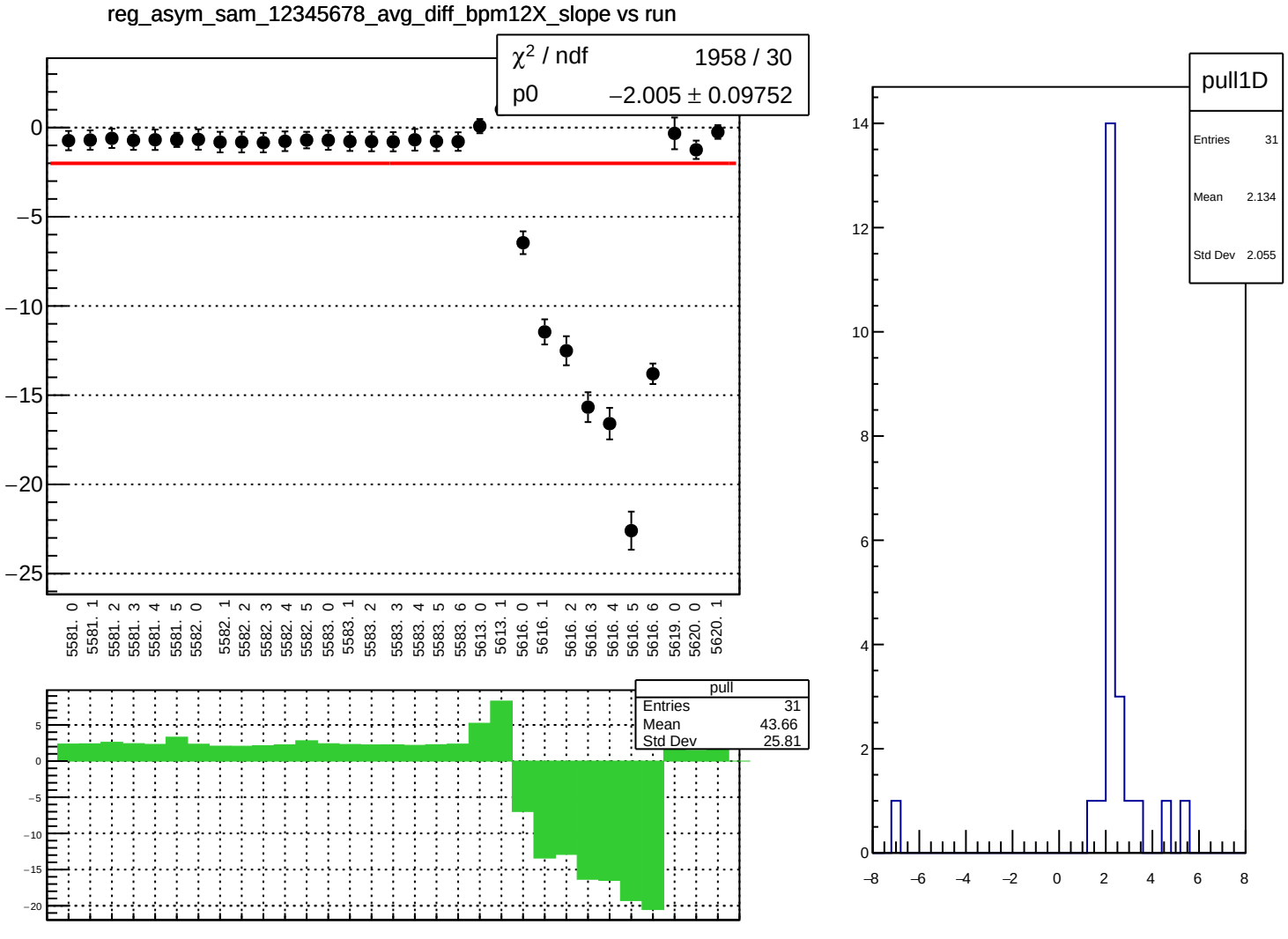

reg_asym_sam_12345678_avg_diff_bpm4aX_slope vs run
χ² / ndf 660.9 / 30
p0 −62.94 ± 3.624
0
−100
−200
−300
−400
−500
−600
−700
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 34.82
Std Dev 16.43
4
2
0
−2
−4
−6
−8
−10
−12

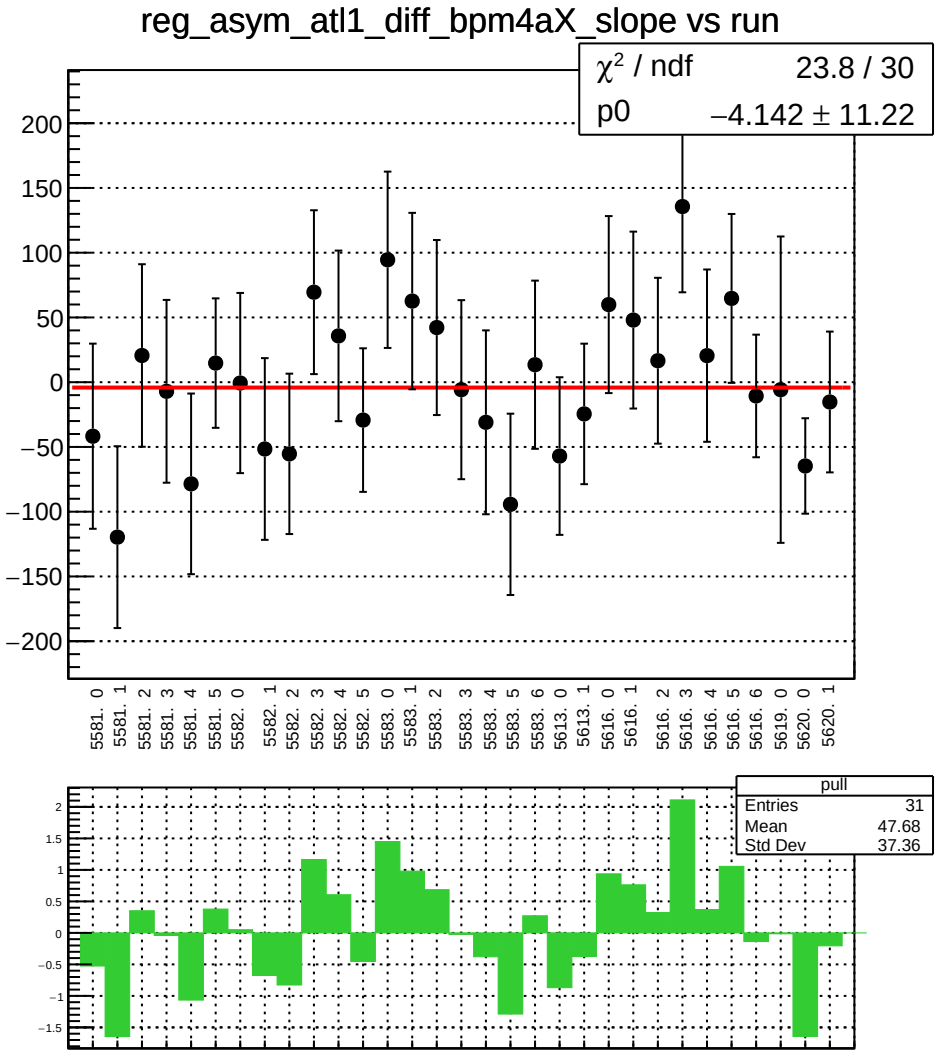

pull1D
Entries 31
Mean 1.015
Std Dev 1.331
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

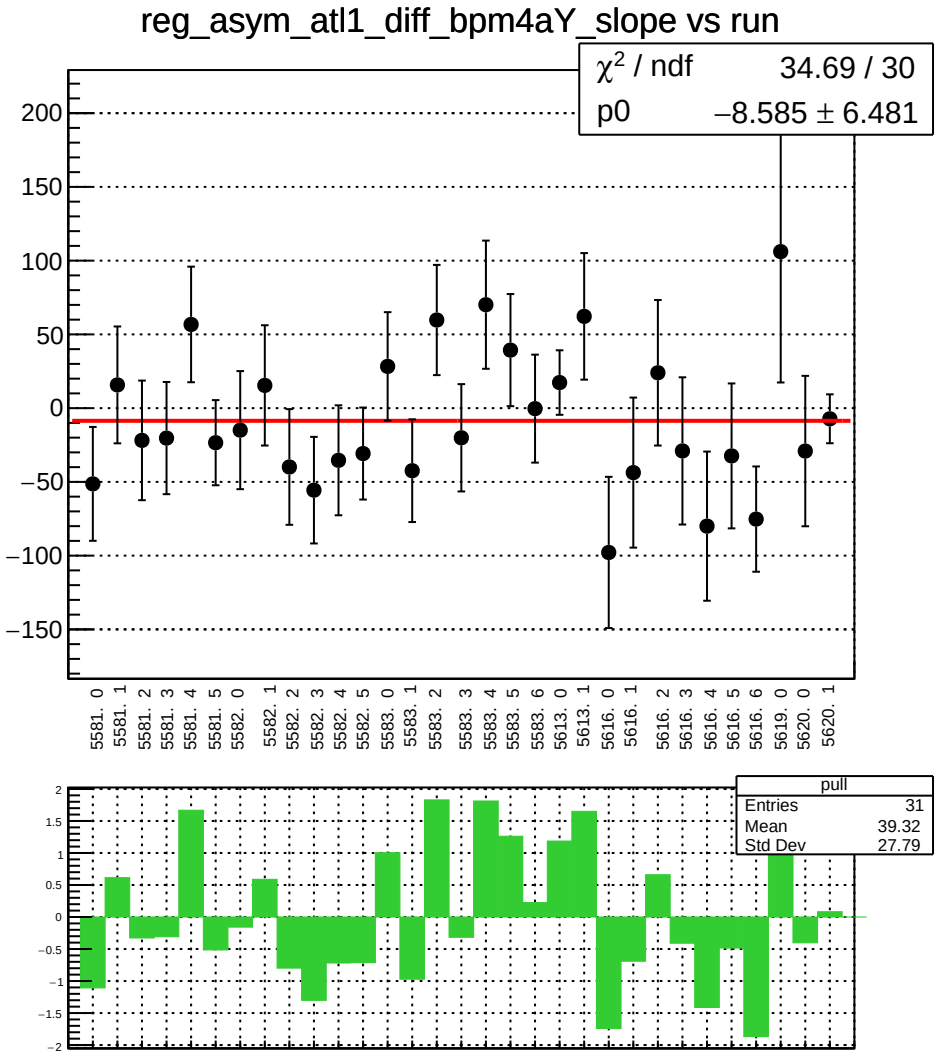

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 12.4 / 30
p0 −6.777 ± 1.981
30
20
10
0
−10
−20
−30
−40
−50
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 8.389
Std Dev 3.06
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 31
Mean −0.1544
Std Dev 0.6133
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

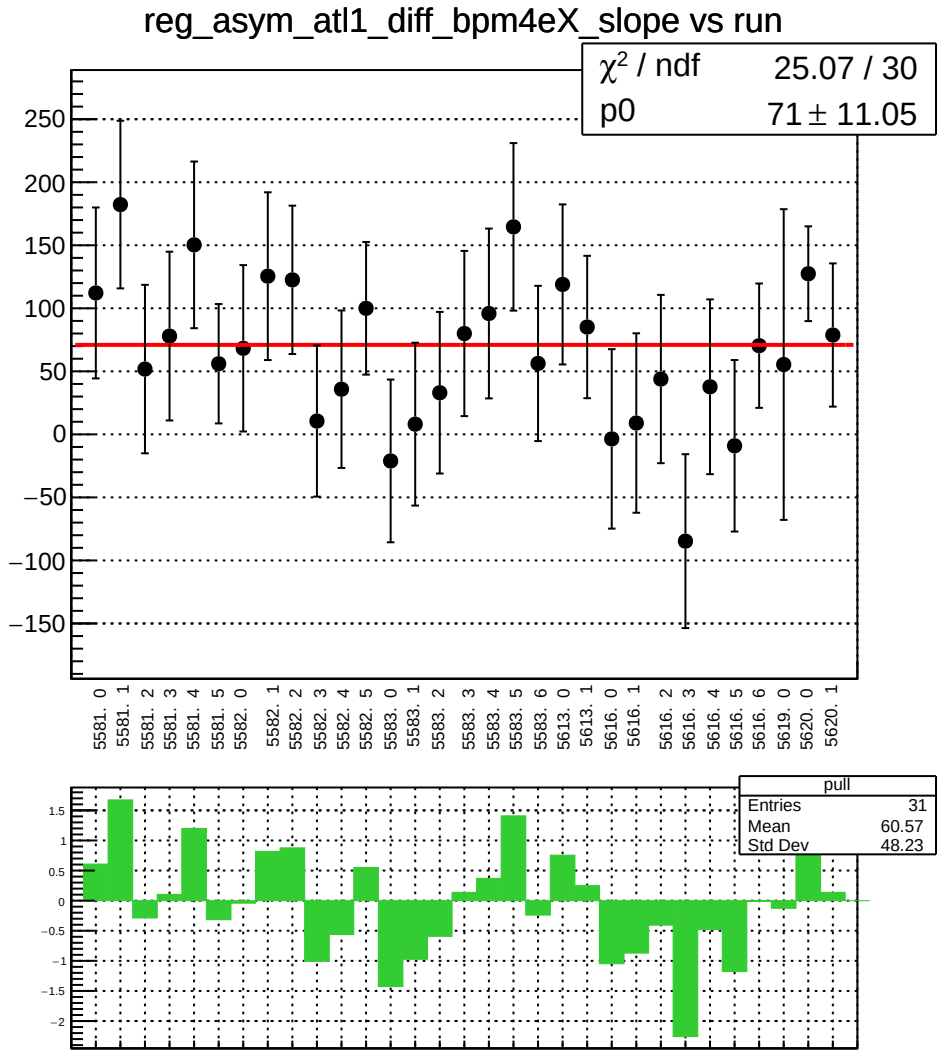

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 602.6 / 30
p0 −14.66 ± 3.514
600
500
400
300
200
100
0
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 34.3
Std Dev 15.8
12
10
8
6
4
2
0
−2
−4
pull1D
Entries 31
Mean −0.5511
Std Dev 2.099
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

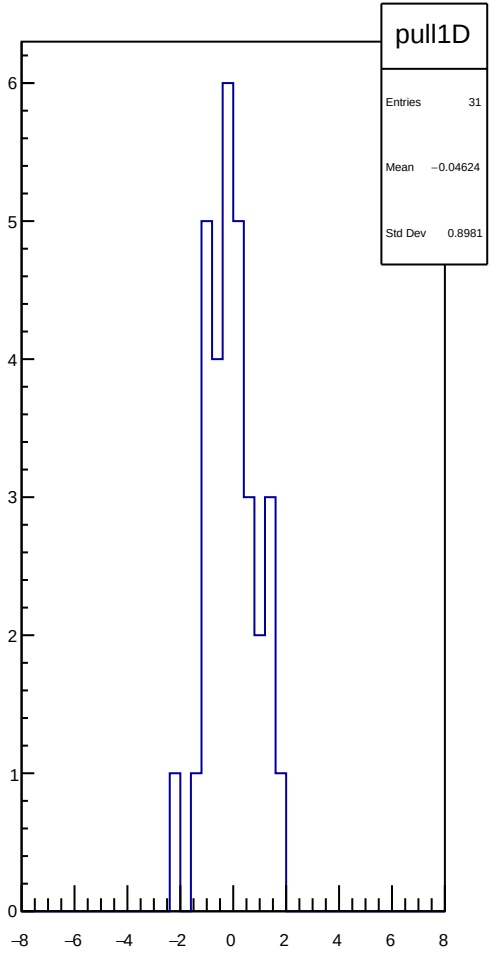

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 16.41 / 30
p0 −6.17 ± 2.612
100
80
60
40
20
0
−20
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 21.84
Std Dev 6.432
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.263
Std Dev 0.6784
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

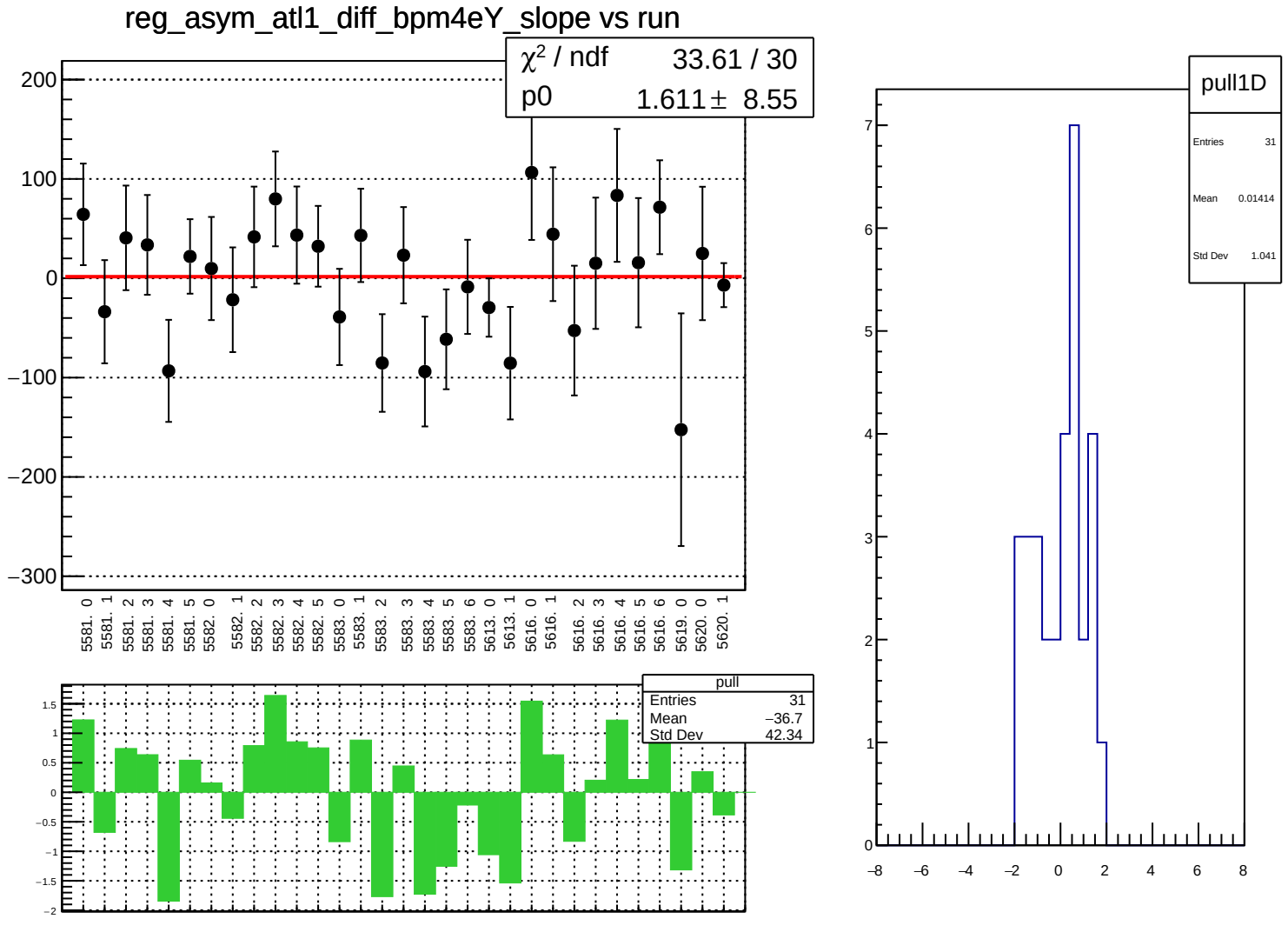

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 1958 / 30
p0 −2.005 ± 0.09752
0
−5
−10
−15
−20
−25
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 43.66
Std Dev 25.81
5
0
−5
−10
−15
−20
pull1D
Entries 31
Mean 2.134
Std Dev 2.055
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

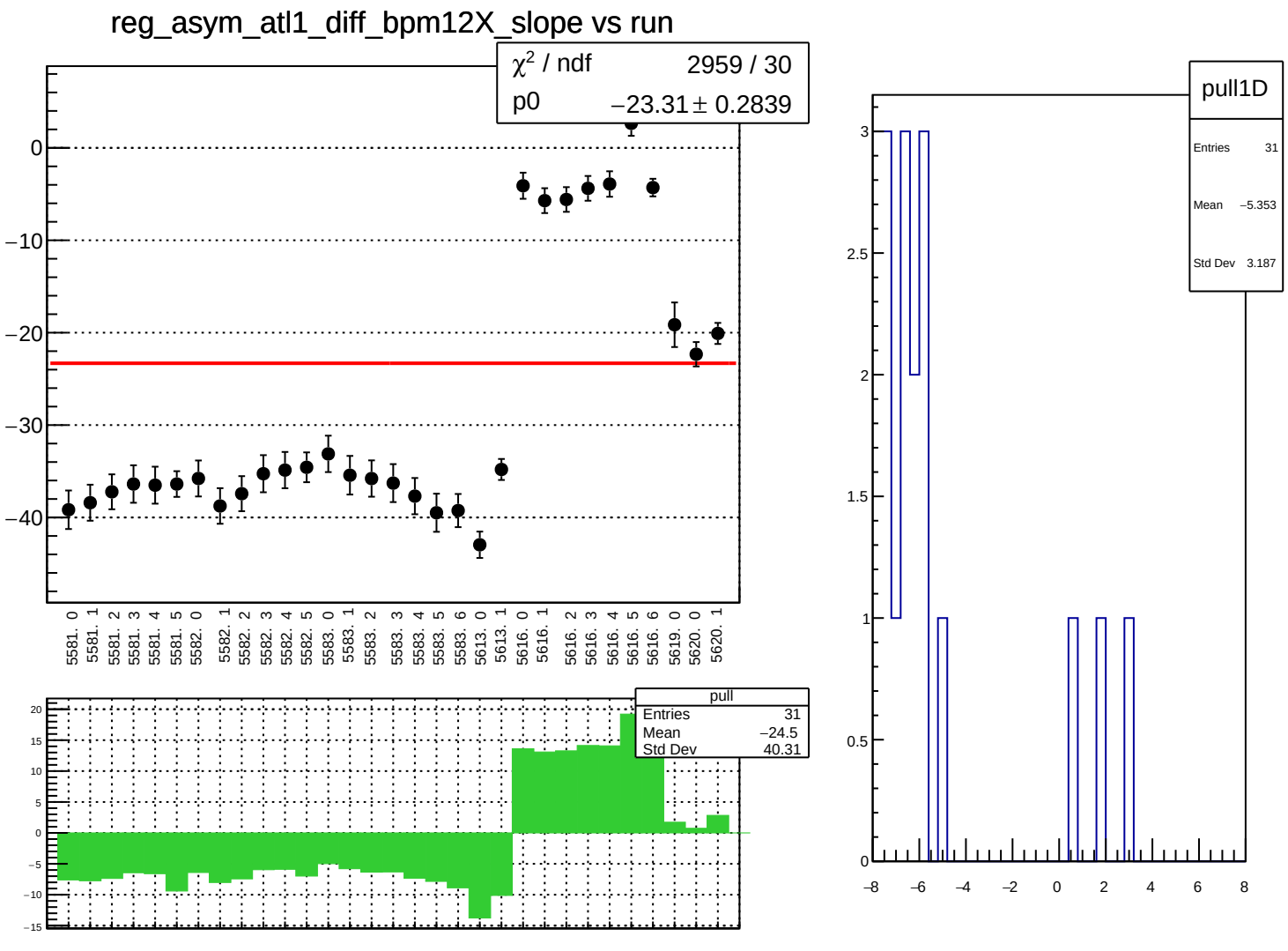

reg_asym_atl1_diff_bpm4aX_slope vs run
χ² / ndf 23.8 / 30
p0 −4.142 ± 11.22
200
150
100
50
0
−50
−100
−150
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 47.68
Std Dev 37.36
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.04293
Std Dev 0.8751
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

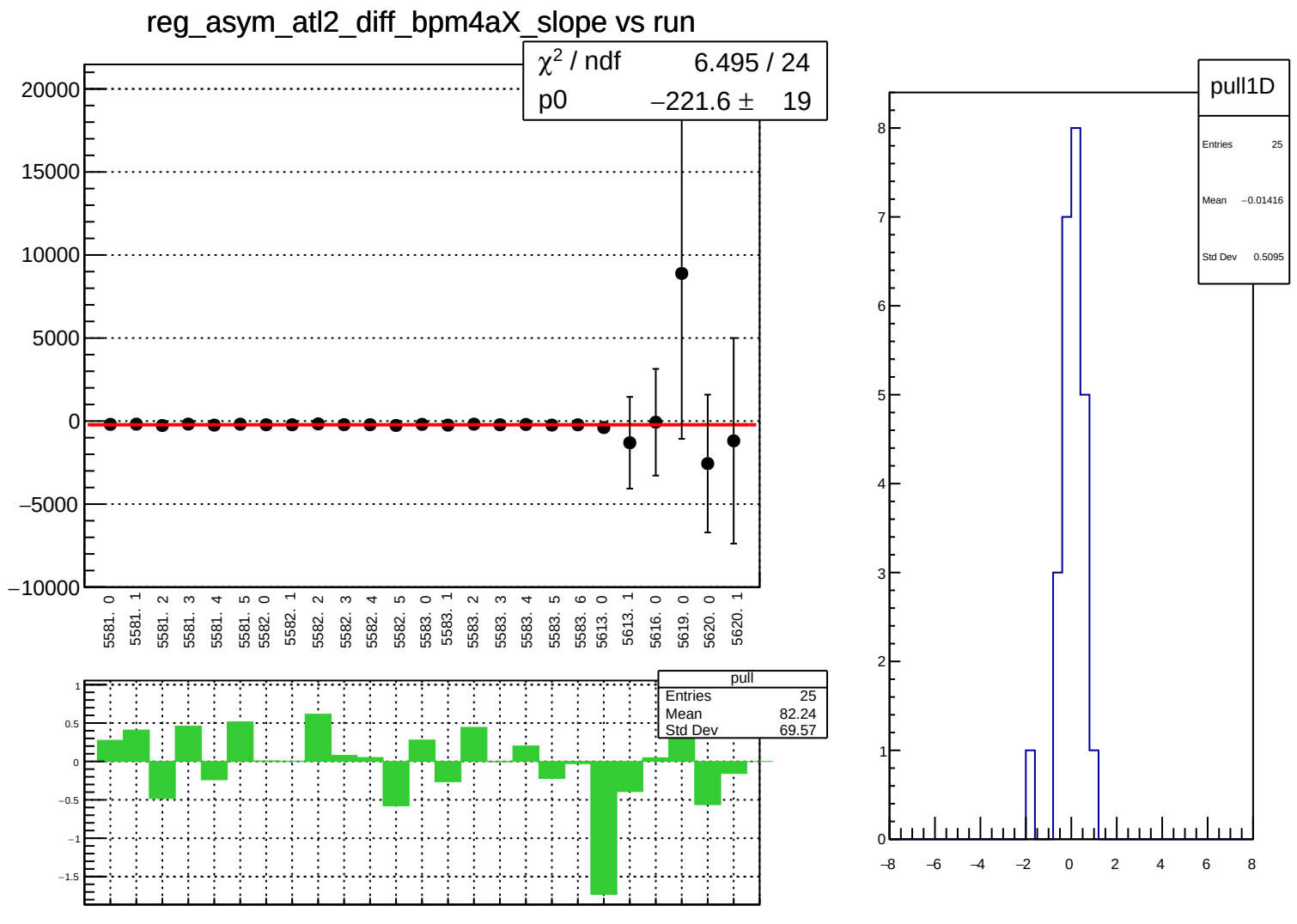

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 34.69 / 30
p0 −8.585 ± 6.481
200
150
100
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 39.32
Std Dev 27.79
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.01181
Std Dev 1.058
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

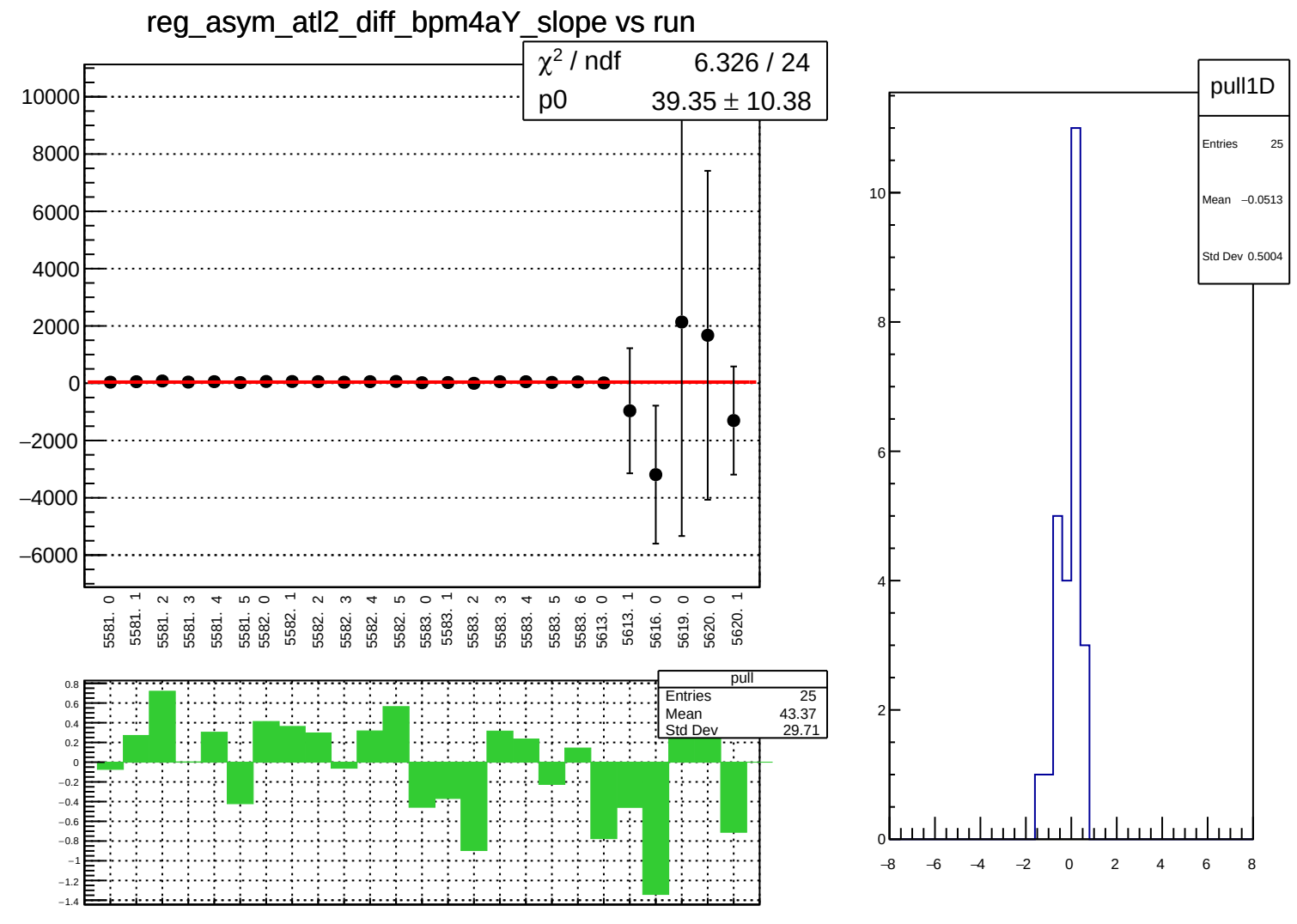

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 25.07 / 30
p0 71 ± 11.05
250
200
150
100
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 60.57
Std Dev 48.23
1.5
1
0.5
0
−0.5
−1
−1.5
−2

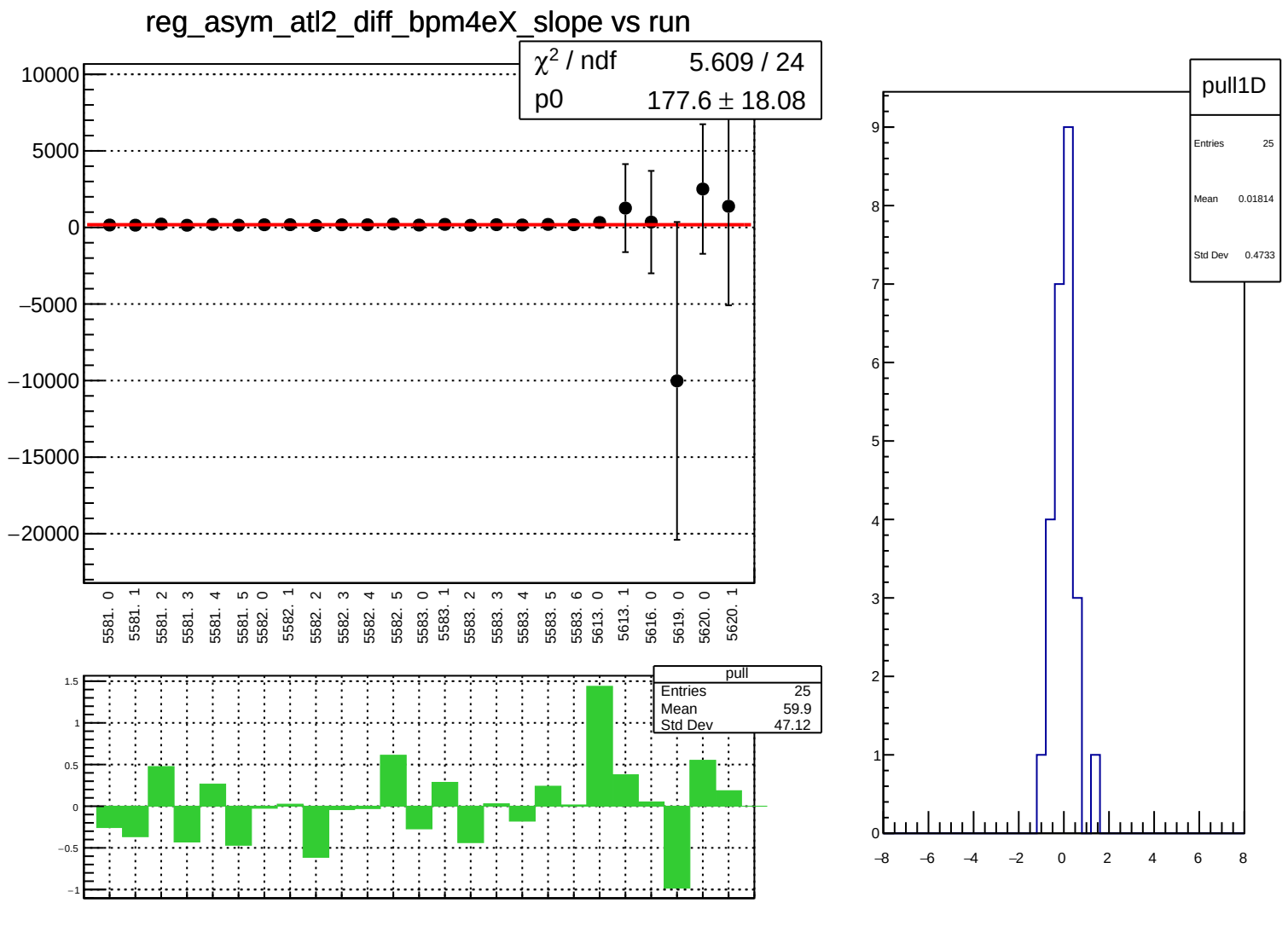

pull1D
Entries 31
Mean −0.04624
Std Dev 0.8981
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

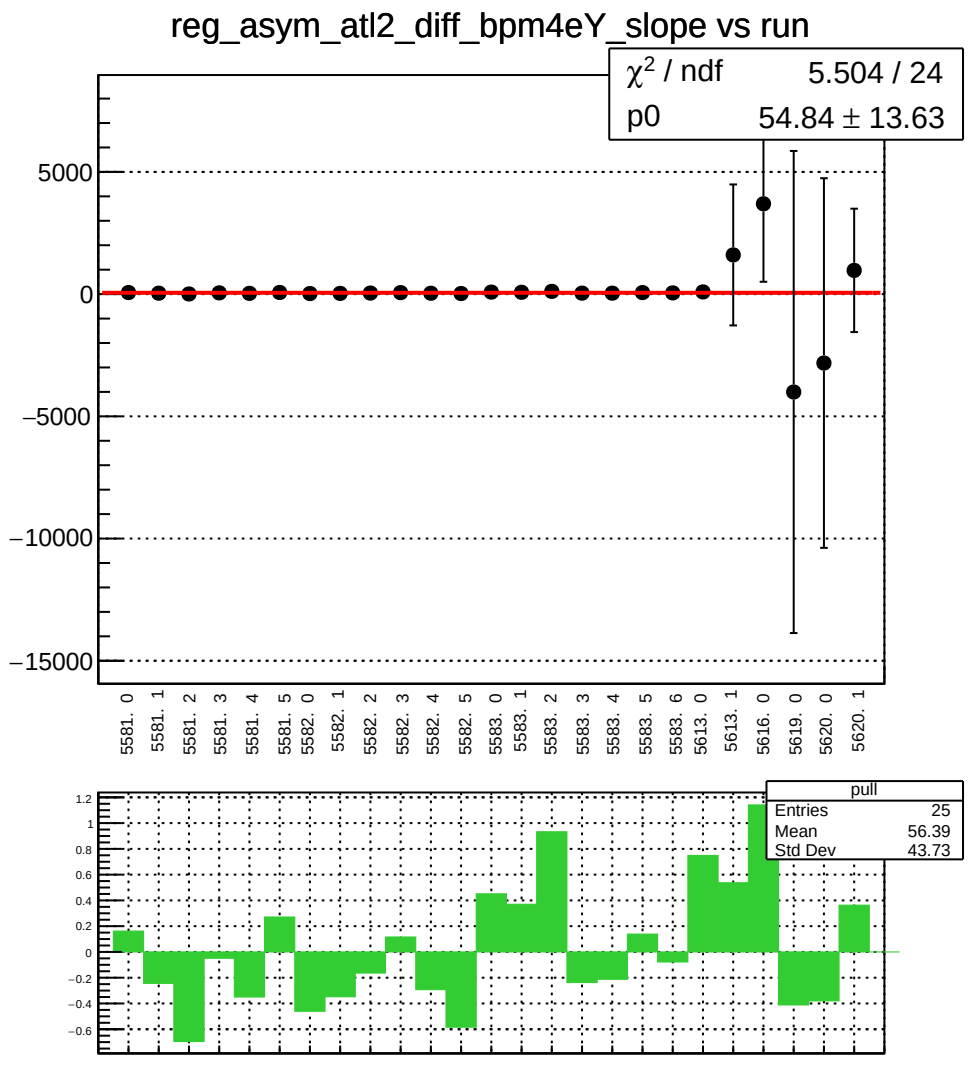

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 33.61 / 30
p0 1.611 ± 8.55
200
100
0
−100
−200
−300
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −36.7
Std Dev 42.34
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean 0.01414
Std Dev 1.041
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

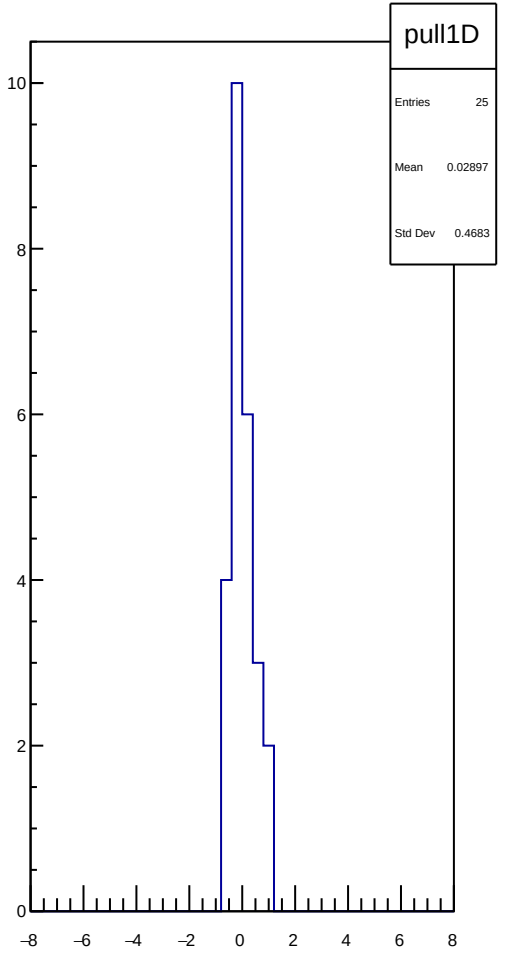

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 2959 / 30
p0 −23.31 ± 0.2839
0
−10
−20
−30
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −24.5
Std Dev 40.31
20
15
10
5
0
−5
−10
−15
pull1D
Entries 31
Mean −5.353
Std Dev 3.187
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

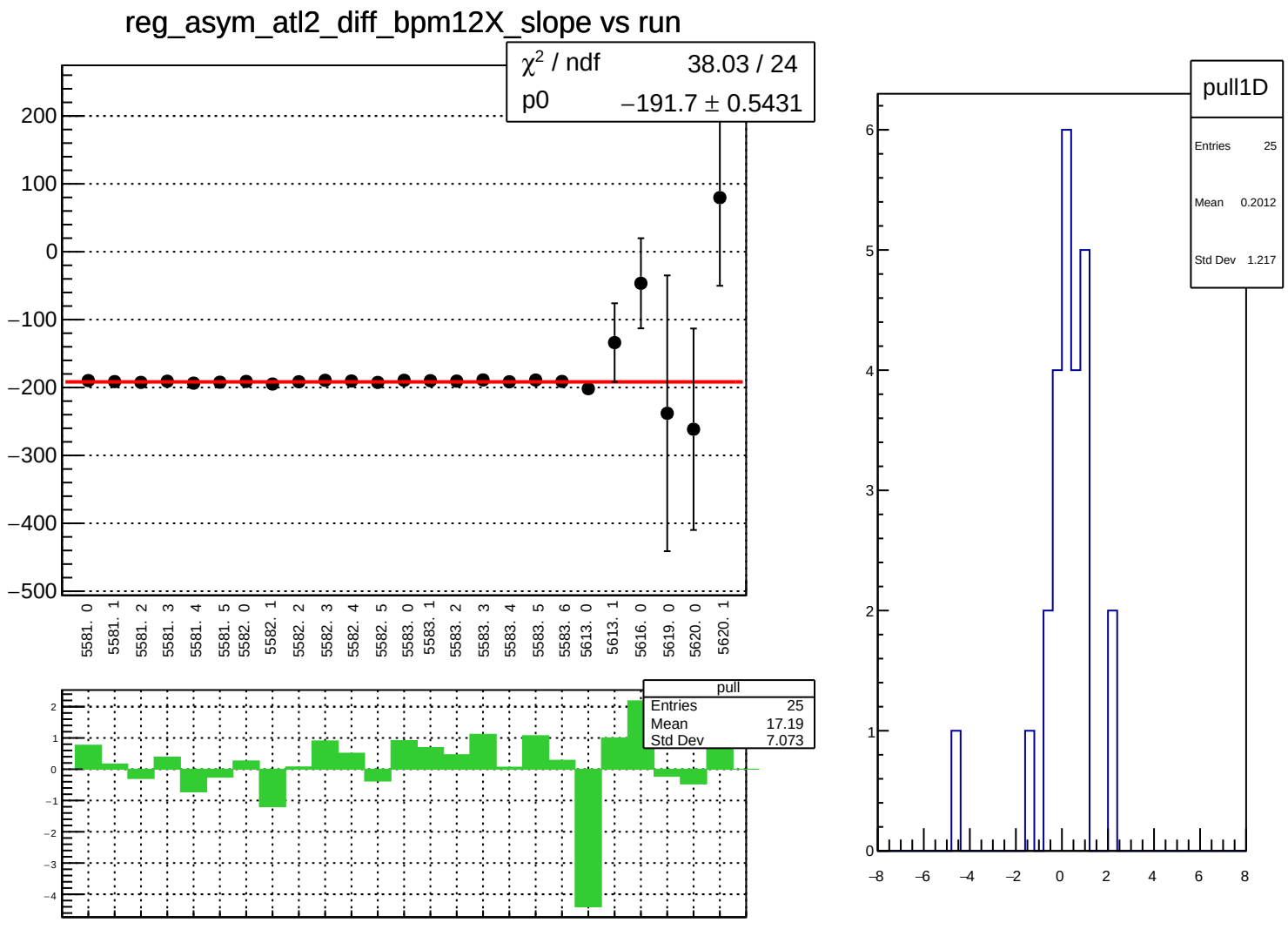

reg_asym_atl2_diff_bpm4aX_slope vs run
χ² / ndf 6.495 / 24
p0 −221.6 ± 19
20000
15000
10000
5000
0
−5000
−10000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5619. 0
5620. 0
5620. 1
pull
Entries 25
Mean 82.24
Std Dev 69.57
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 25
Mean −0.01416
Std Dev 0.5095
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

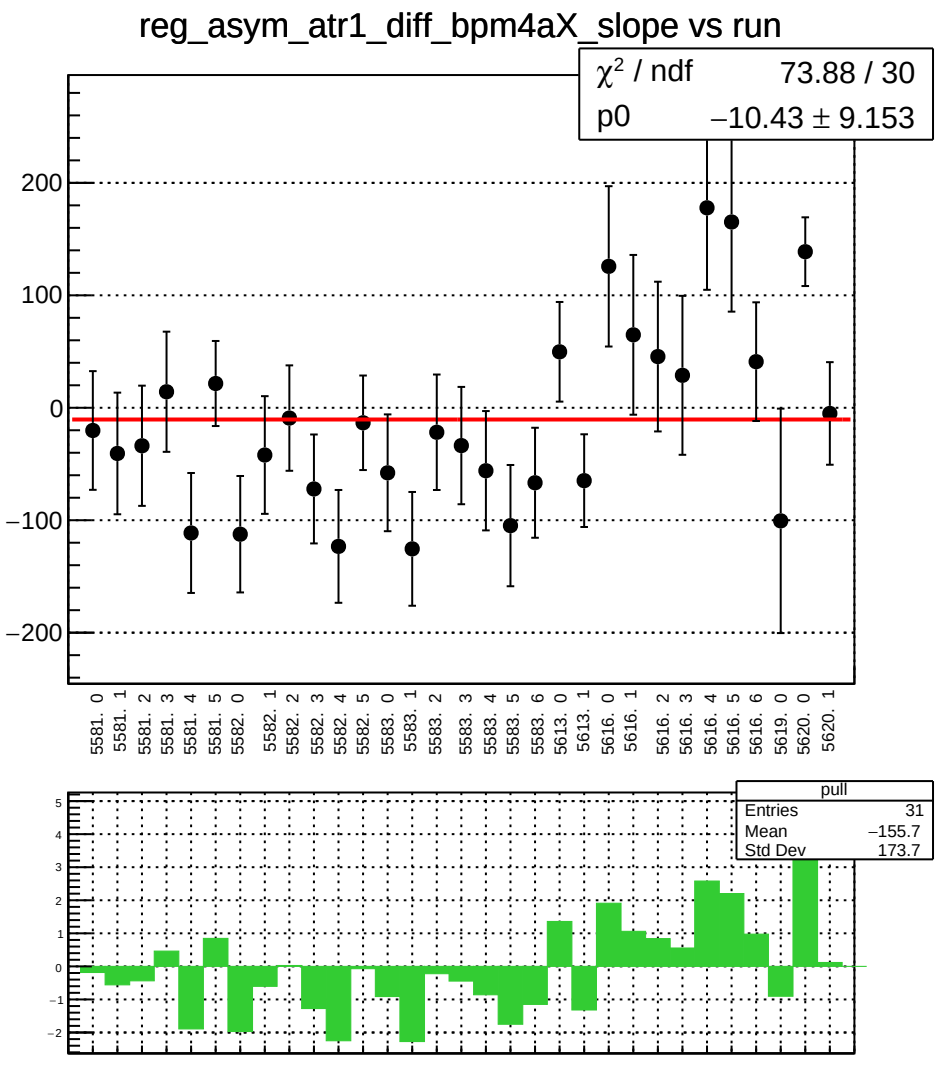

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 6.326 / 24
p0 39.35 ± 10.38
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5619. 0
5620. 0
5620. 1
pull
Entries 25
Mean 43.37
Std Dev 29.71
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4
pull1D
Entries 25
Mean −0.0513
Std Dev 0.5004
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

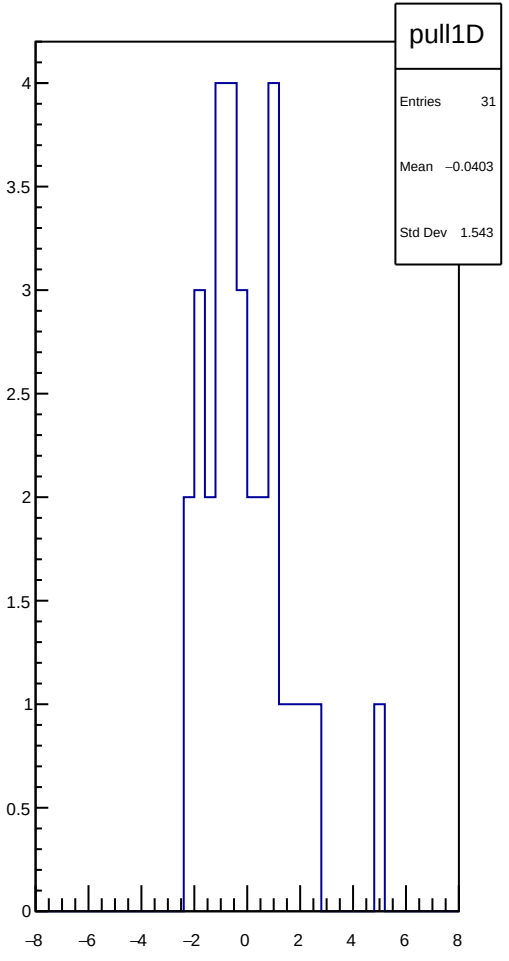

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 5.609 / 24
p0 177.6 ± 18.08
10000
5000
0
−5000
−10000
−15000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5619. 0
5620. 0
5620. 1
pull
Entries 25
Mean 59.9
Std Dev 47.12
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 25
Mean 0.01814
Std Dev 0.4733
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

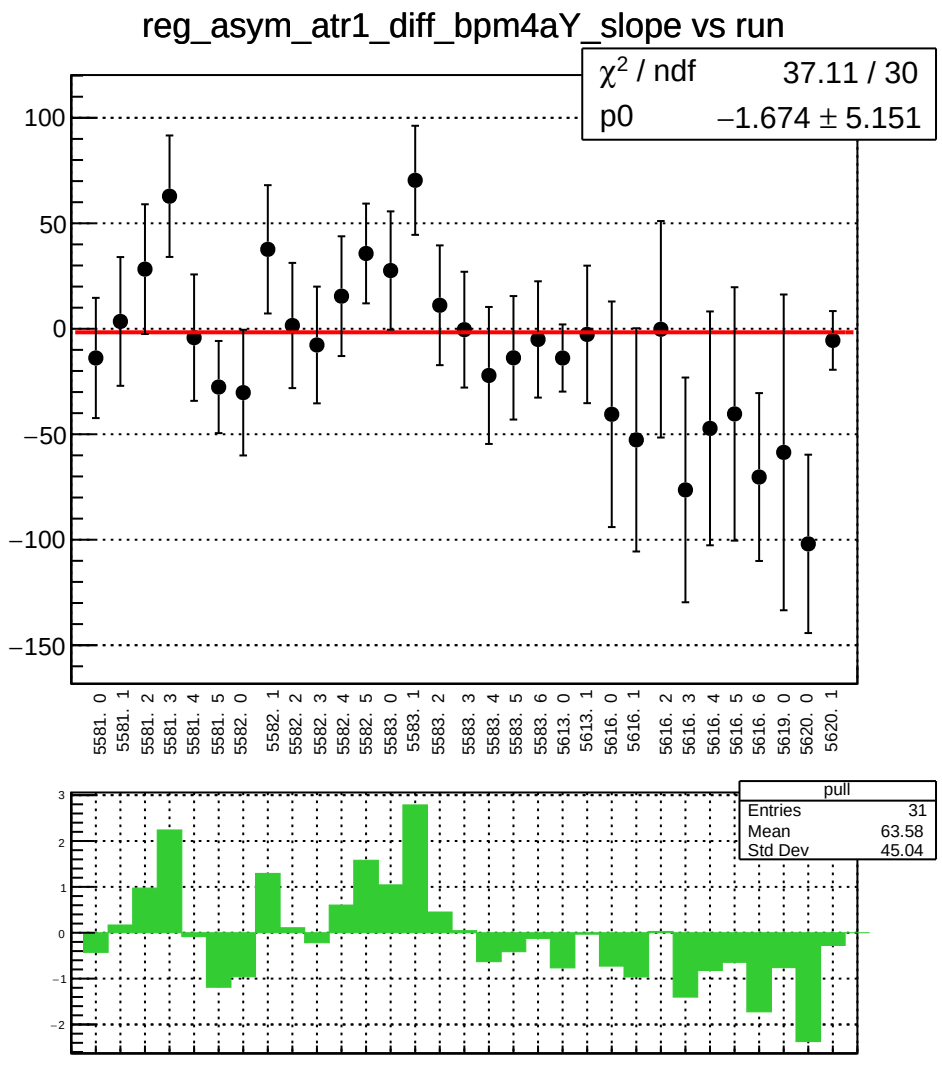

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 5.504 / 24
p0 54.84 ± 13.63
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5619. 0
5620. 0
5620. 1
pull
Entries 25
Mean 56.39
Std Dev 43.73
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

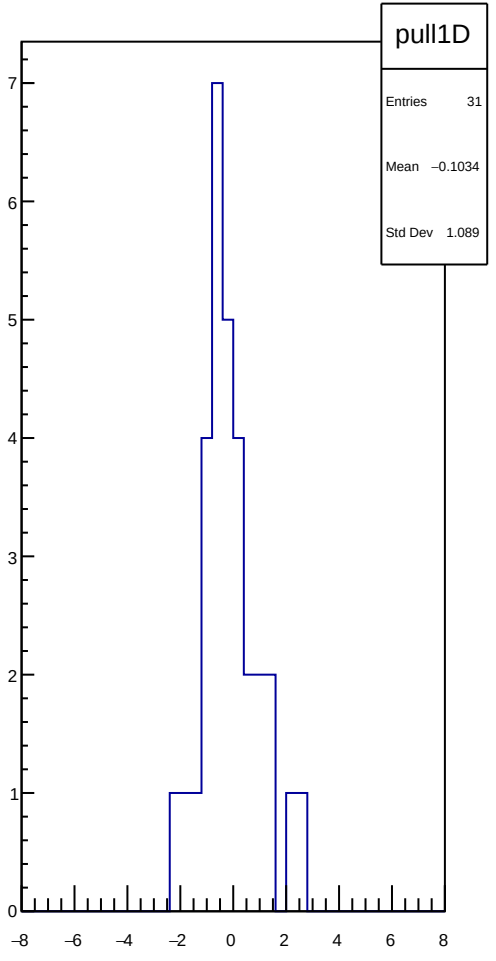

pull1D
Entries 25
Mean 0.02897
Std Dev 0.4683
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

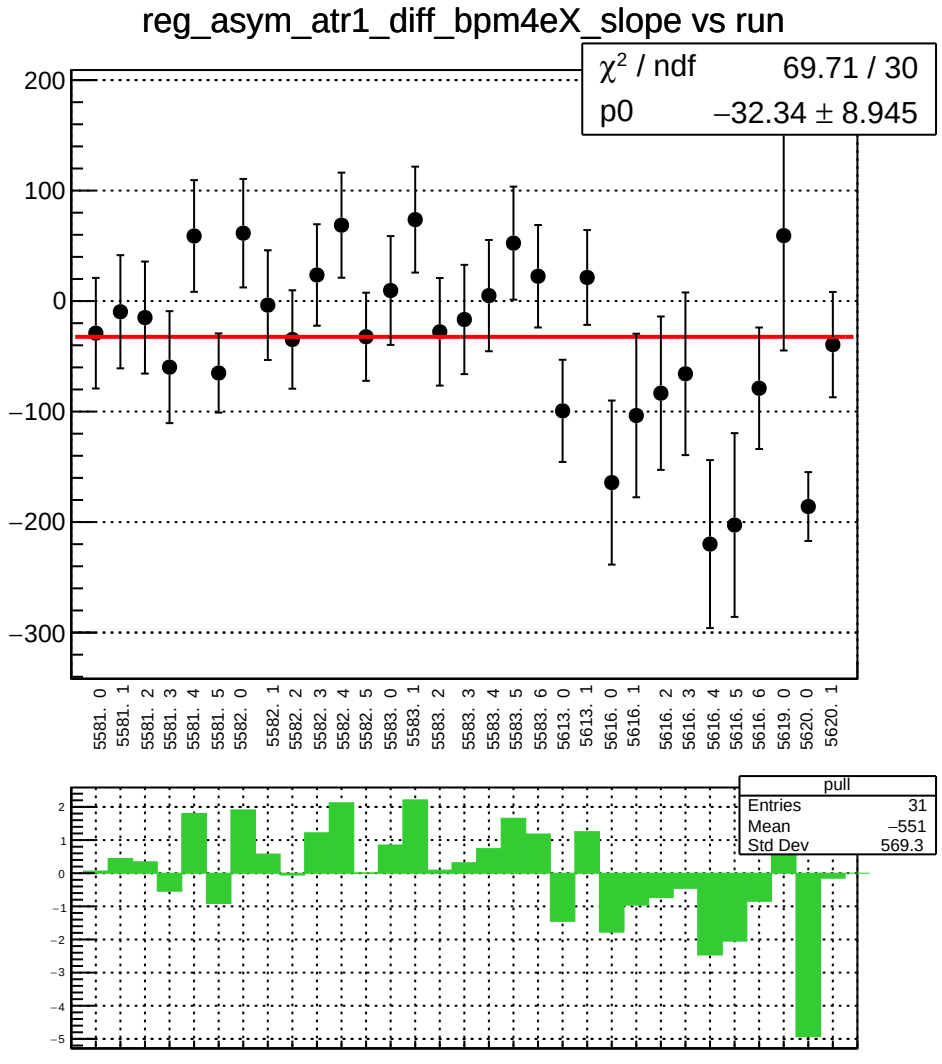

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 38.03 / 24
p0 −191.7 ± 0.5431
200
100
0
−100
−200
−300
−400
−500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5619. 0
5620. 0
5620. 1
pull
Entries 25
Mean 17.19
Std Dev 7.073
pull1D
Entries 25
Mean 0.2012
Std Dev 1.217

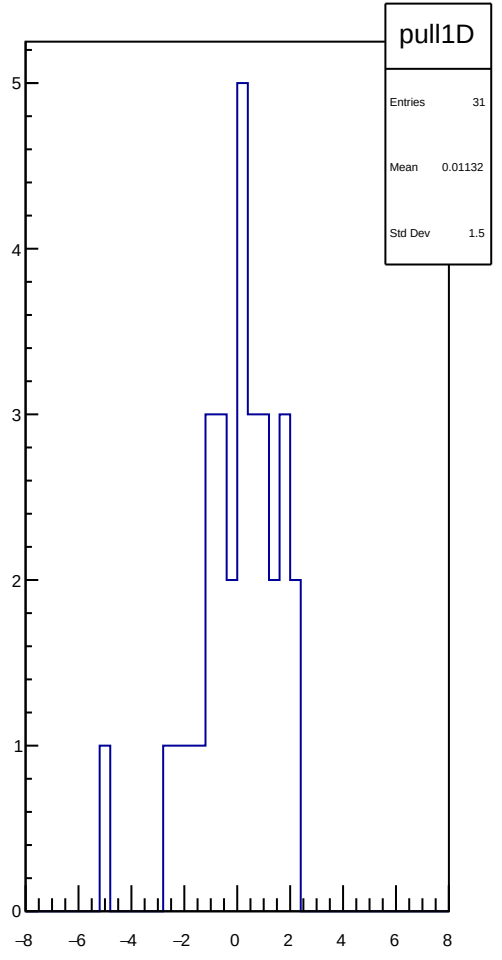

reg_asym_atr1_diff_bpm4aX_slope vs run
χ² / ndf 73.88 / 30
p0 −10.43 ± 9.153
200
100
0
−100
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −155.7
Std Dev 173.7
5
4
3
2
1
0
−1
−2

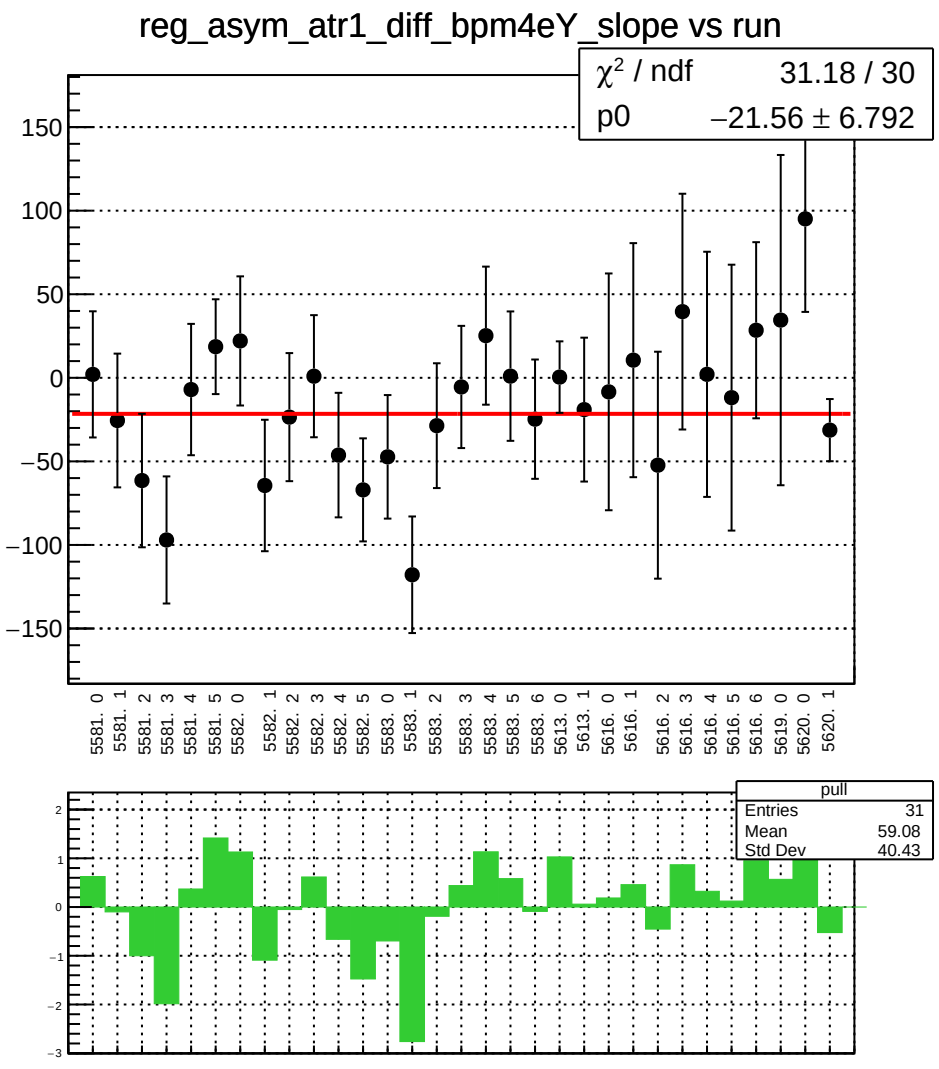

pull1D
Entries 31
Mean −0.0403
Std Dev 1.543
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

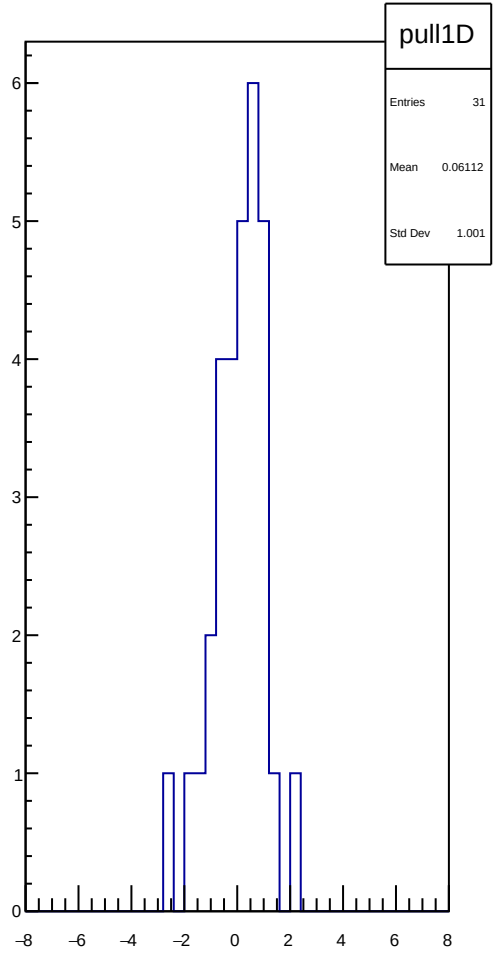

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 37.11 / 30
p0 −1.674 ± 5.151
100
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 63.58
Std Dev 45.04
3
2
1
0
−1
−2

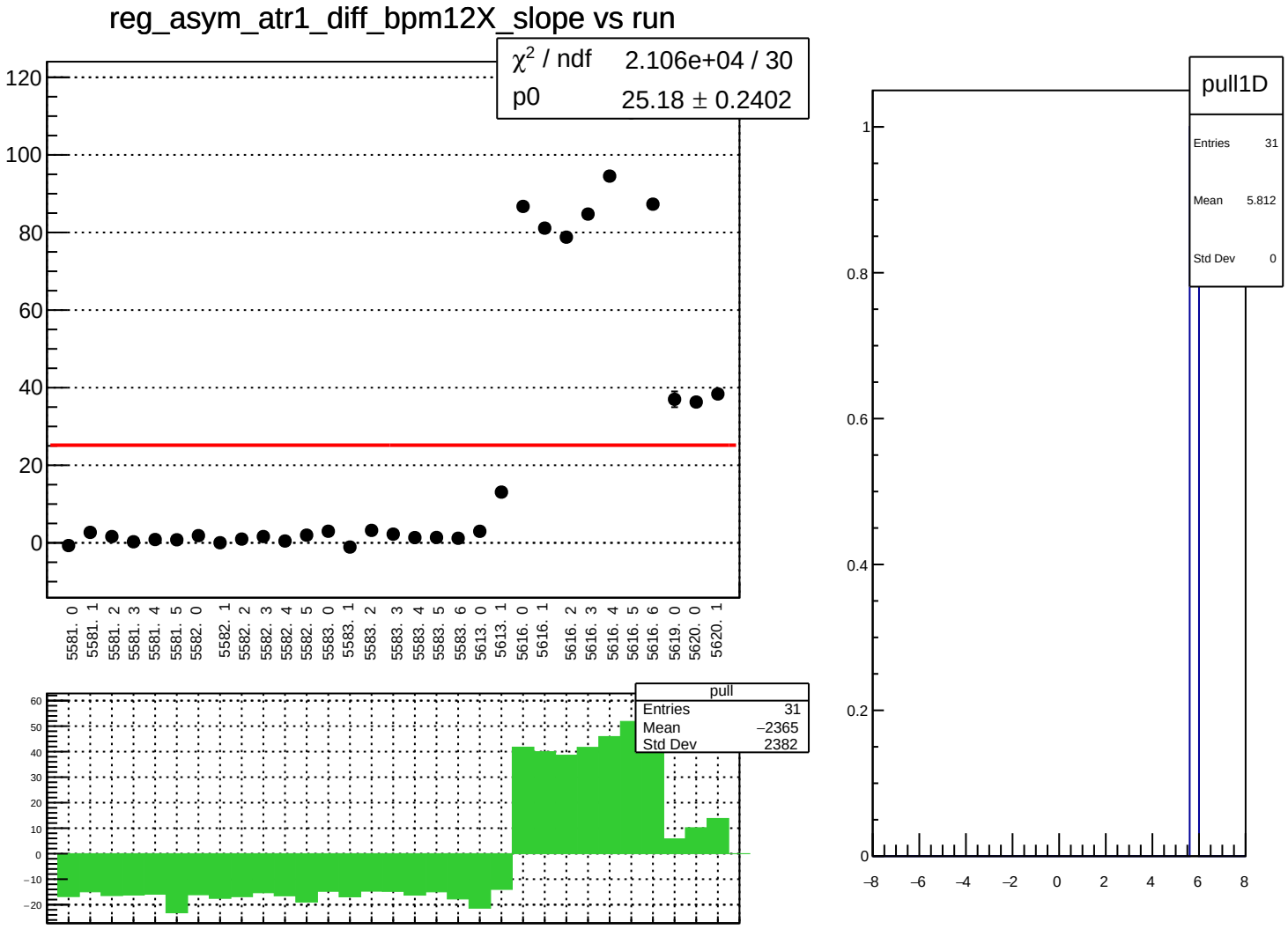

pull1D
Entries 31
Mean −0.1034
Std Dev 1.089
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

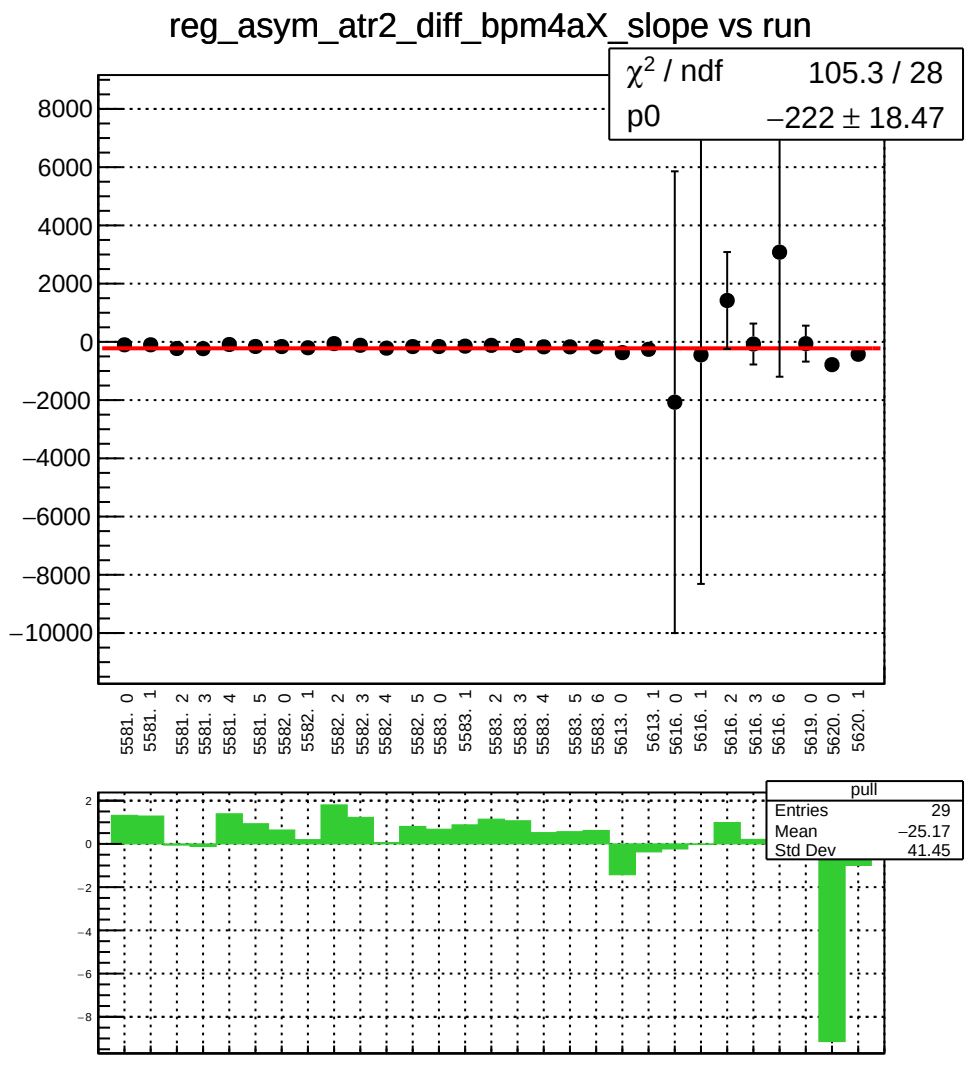

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 69.71 / 30
p0 −32.34 ± 8.945
200
100
0
−100
−200
−300
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −551
Std Dev 569.3
2
1
0
−1
−2
−3
−4
−5

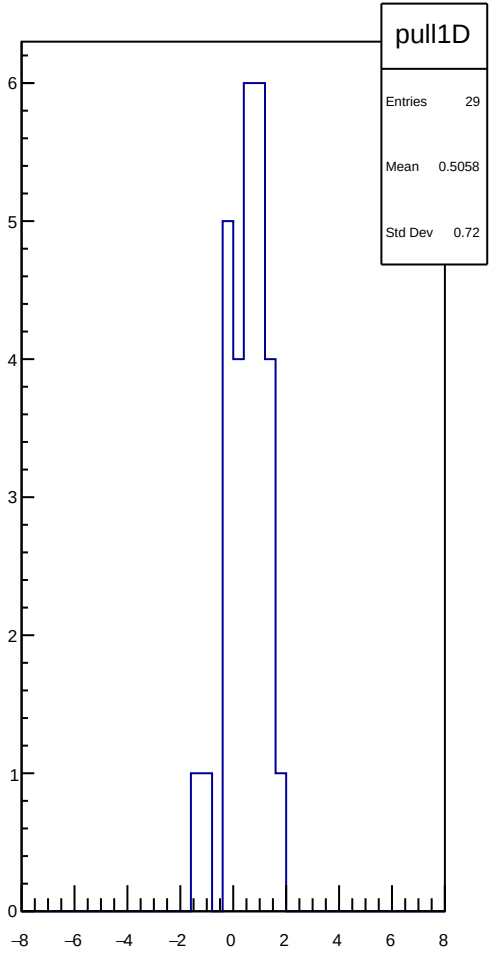

pull1D
Entries 31
Mean 0.01132
Std Dev 1.5
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

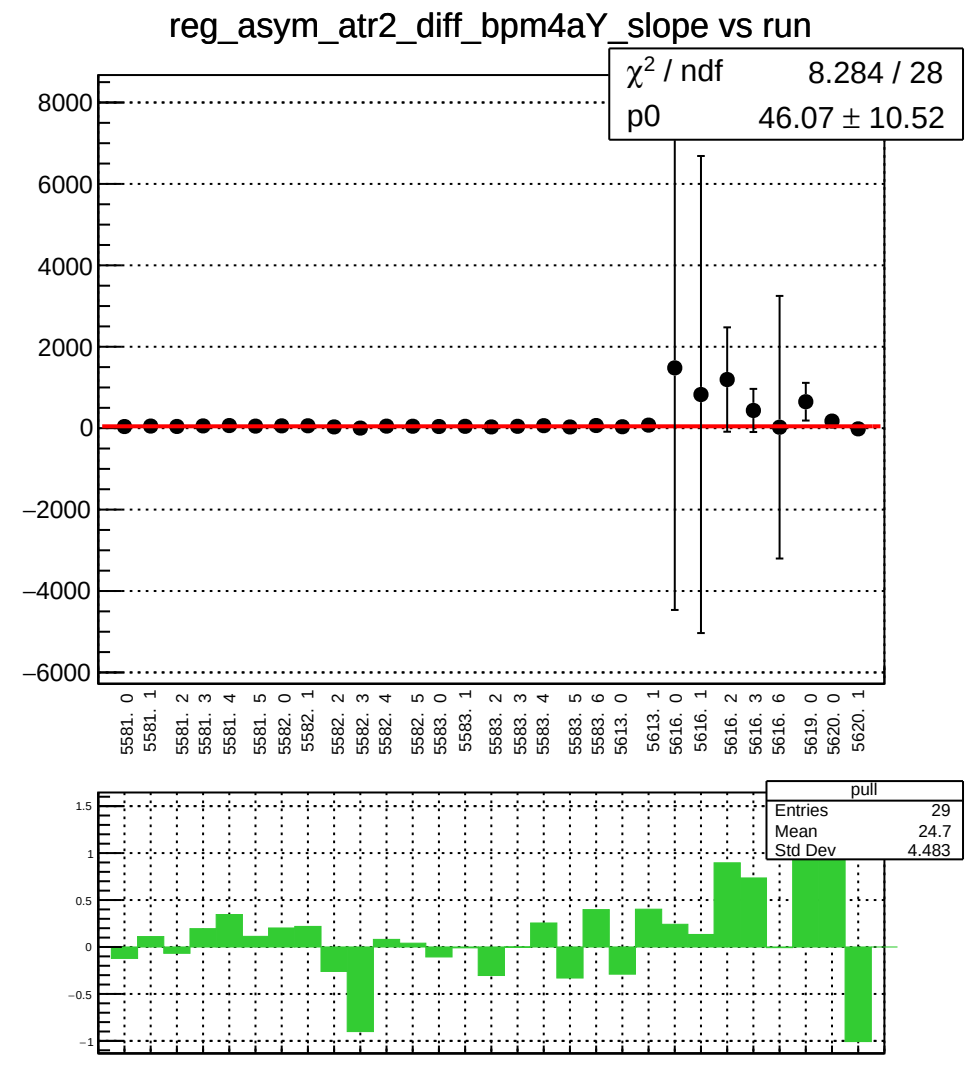

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 31.18 / 30
p0 −21.56 ± 6.792
150
100
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 59.08
Std Dev 40.43
2
1
0
−1
−2
−3

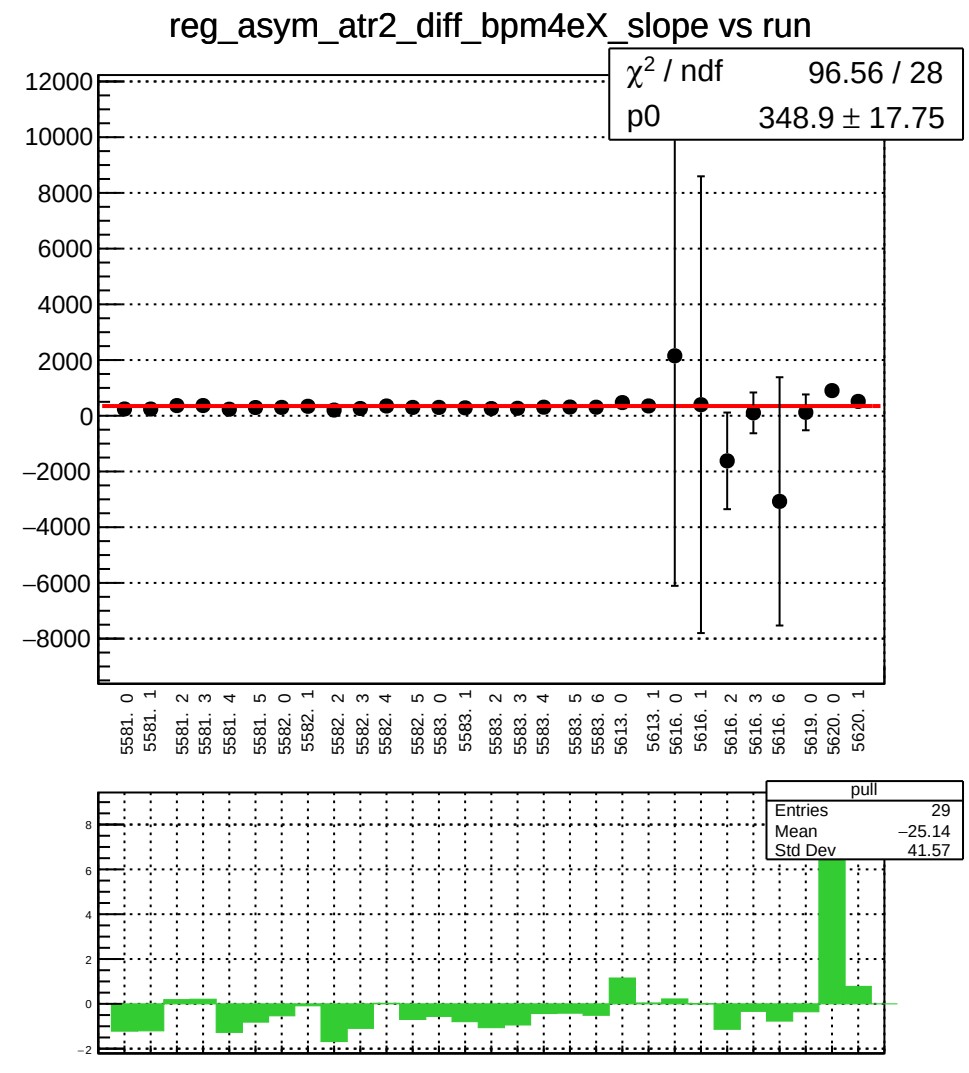

pull1D
Entries 31
Mean 0.06112
Std Dev 1.001
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

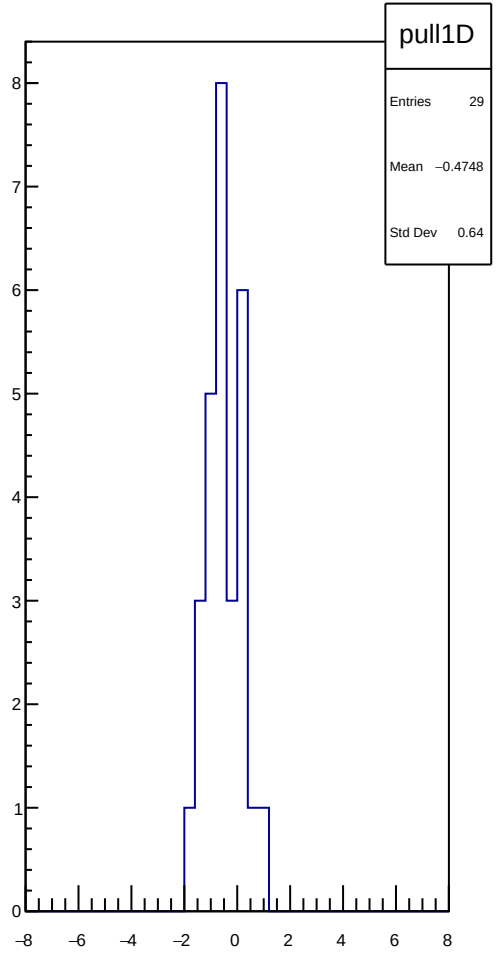

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 2.106e+04 / 30
p0 25.18 ± 0.2402
120
100
80
60
40
20
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −2365
Std Dev 2382
60
50
40
30
20
10
0
−10
−20
pull1D
Entries 31
Mean 5.812
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

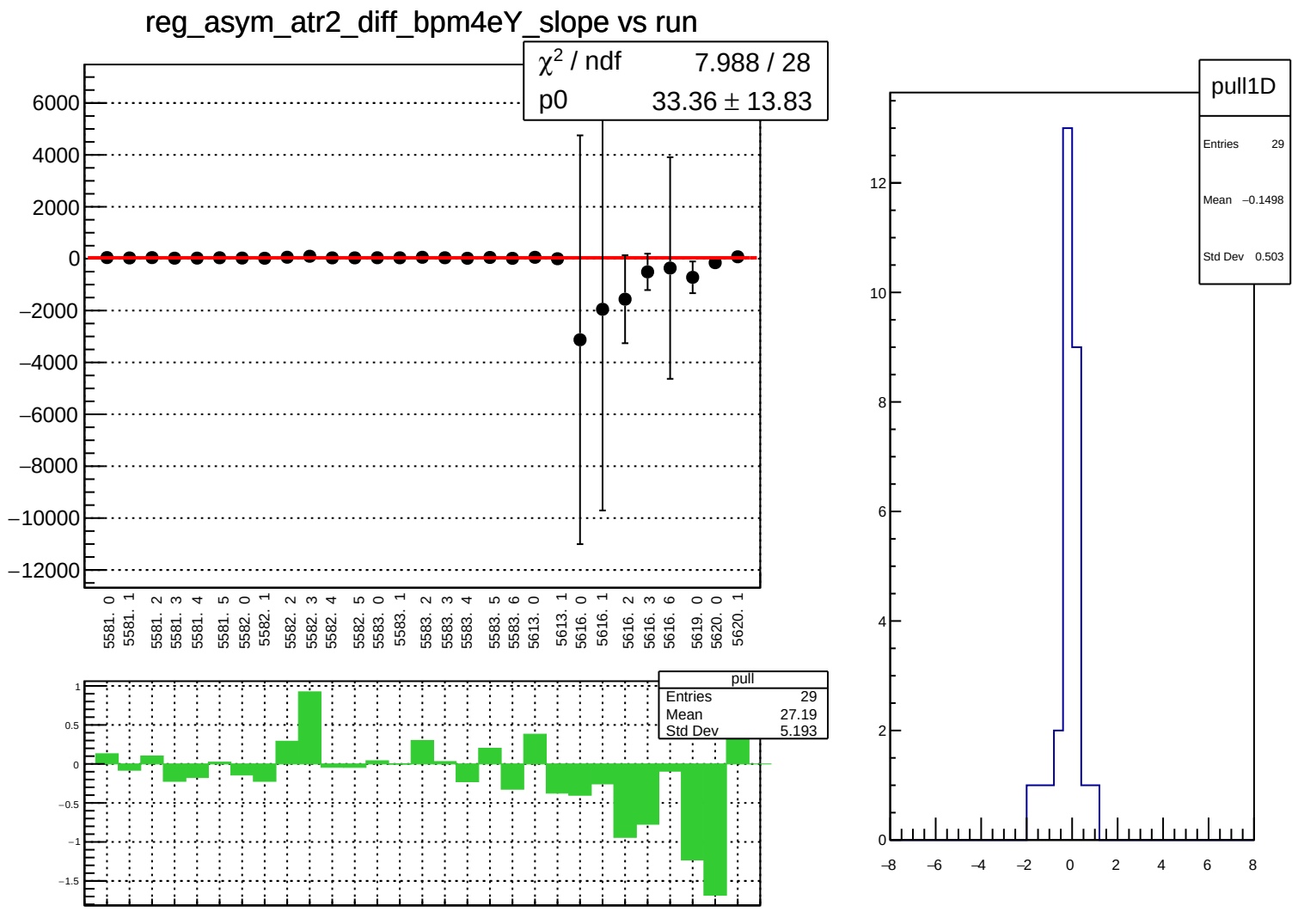

reg_asym_atr2_diff_bpm4aX_slope vs run
χ² / ndf 105.3 / 28
p0 −222 ± 18.47
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 29
Mean −25.17
Std Dev 41.45
2
0
−2
−4
−6
−8

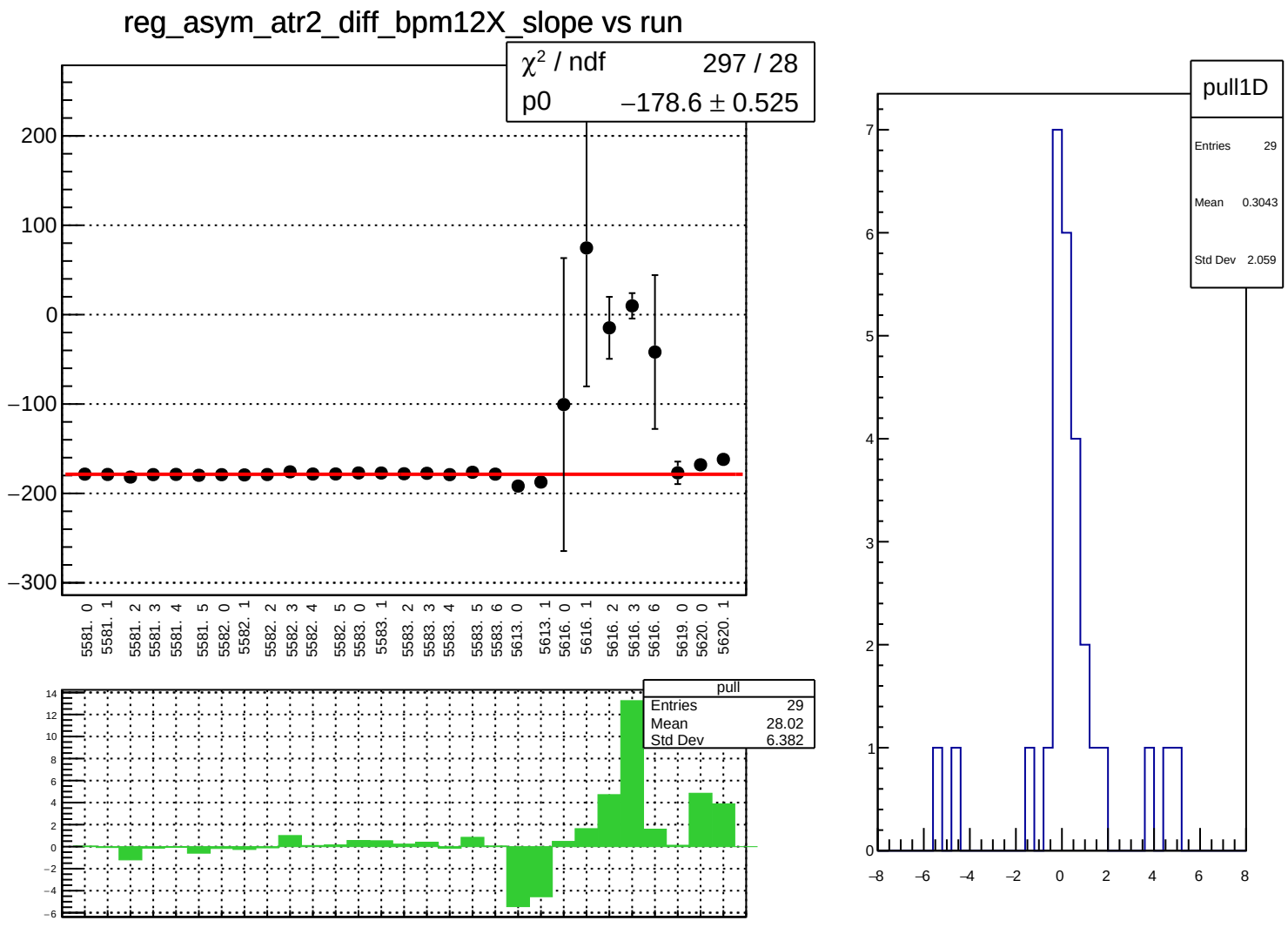

pull1D
Entries 29
Mean 0.5058
Std Dev 0.72
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

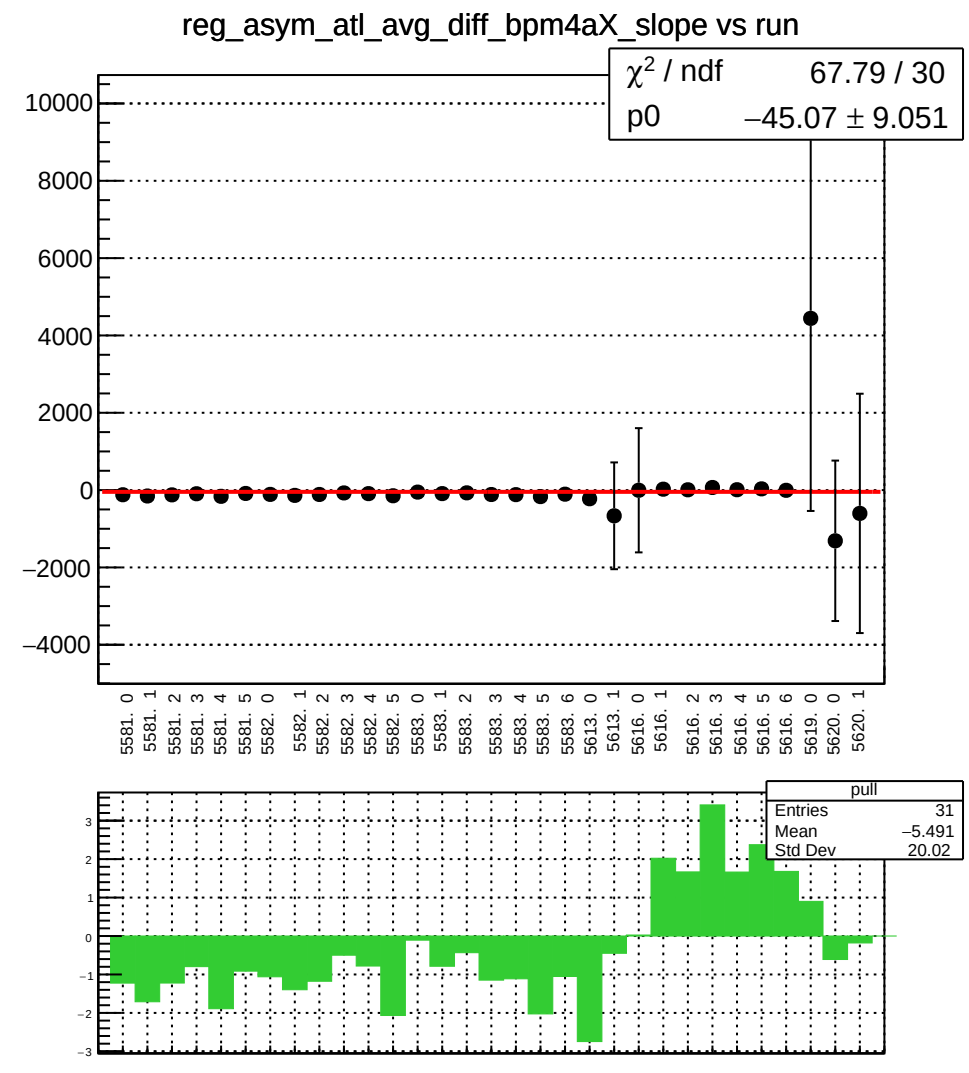

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 8.284 / 28
p0 46.07 ± 10.52
8000
6000
4000
2000
0
−2000
−4000
−6000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 29
Mean 24.7
Std Dev 4.483
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 29
Mean 0.1304
Std Dev 0.5183
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

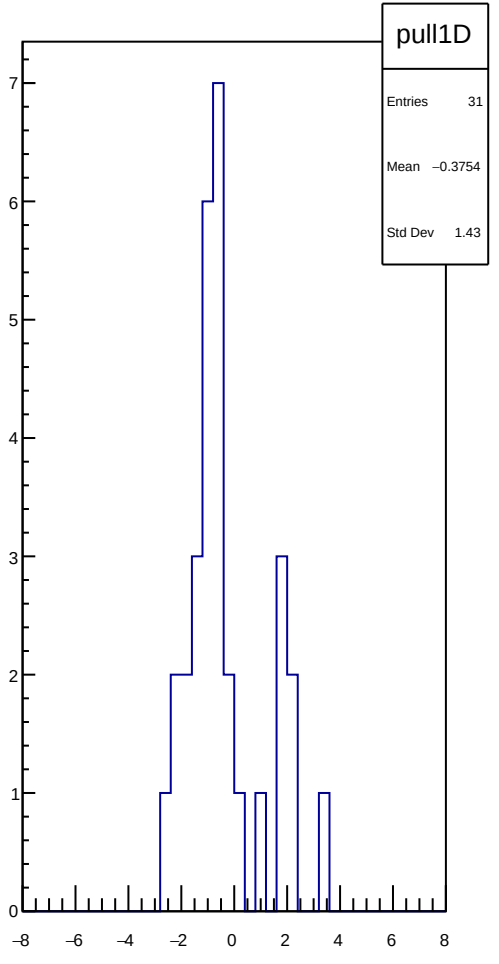

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 96.56 / 28
p0 348.9 ± 17.75
12000
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 29
Mean −25.14
Std Dev 41.57
8
6
4
2
0
−2

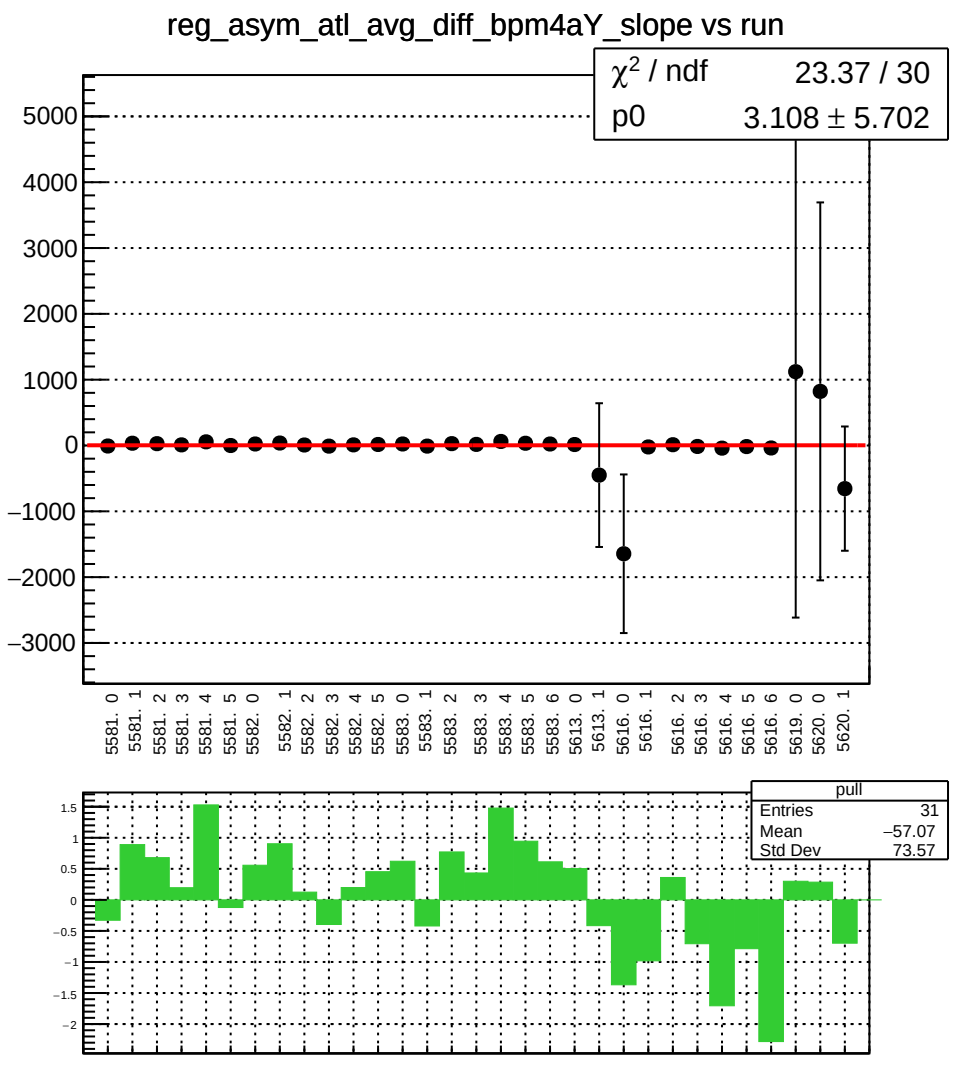

pull1D
Entries 29
Mean −0.4748
Std Dev 0.64
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

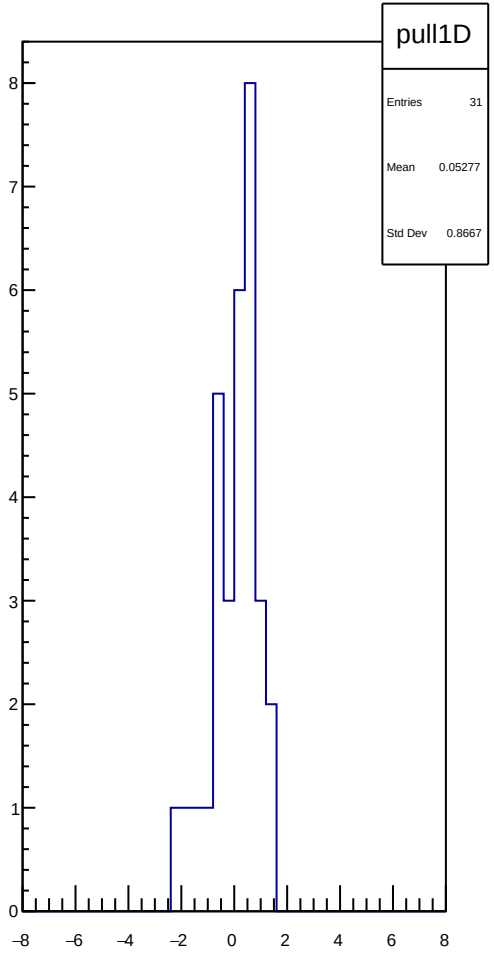

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 7.988 / 28
p0 33.36 ± 13.83
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 29
Mean 27.19
Std Dev 5.193
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 29
Mean −0.1498
Std Dev 0.503
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

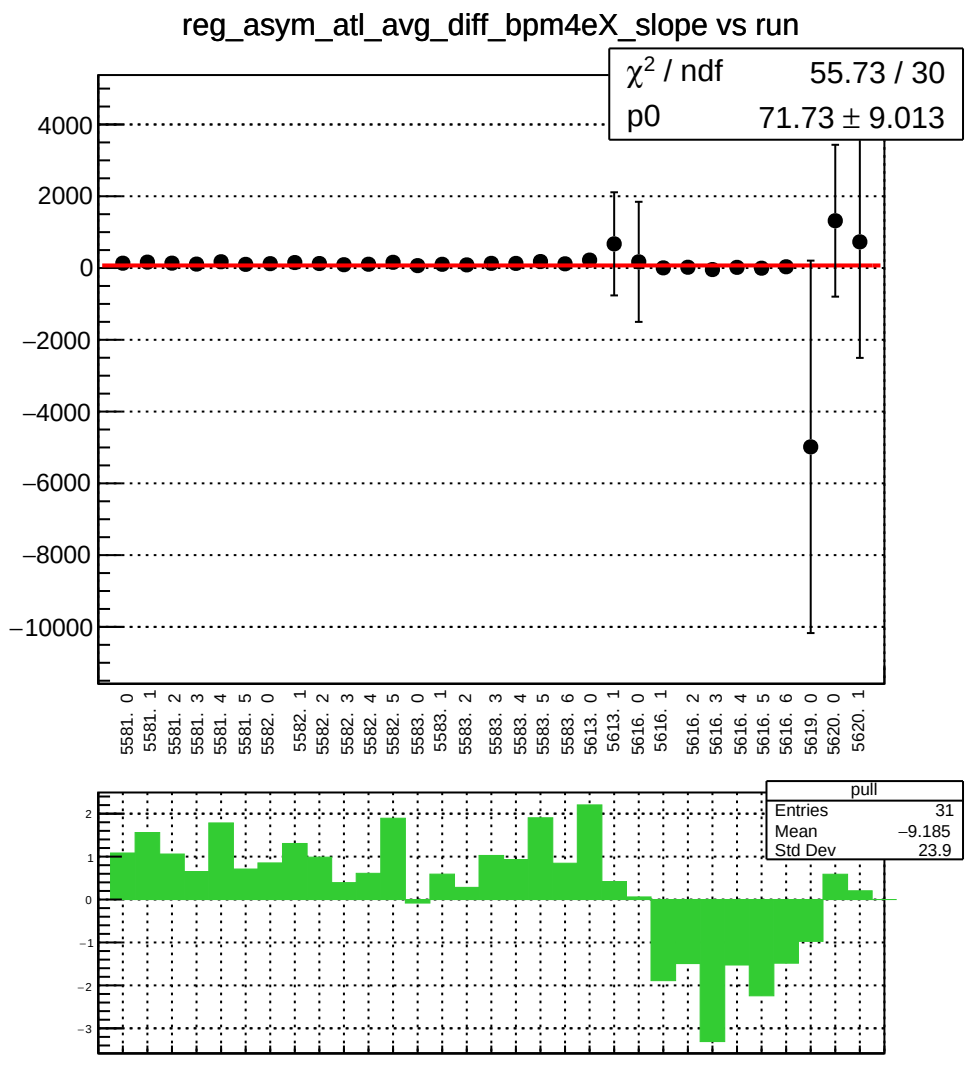

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 297 / 28
p0 −178.6 ± 0.525
200
100
0
−100
−200
−300
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 29
Mean 28.02
Std Dev 6.382
14
12
10
8
6
4
2
0
−2
−4
−6
pull1D
Entries 29
Mean 0.3043
Std Dev 2.059
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

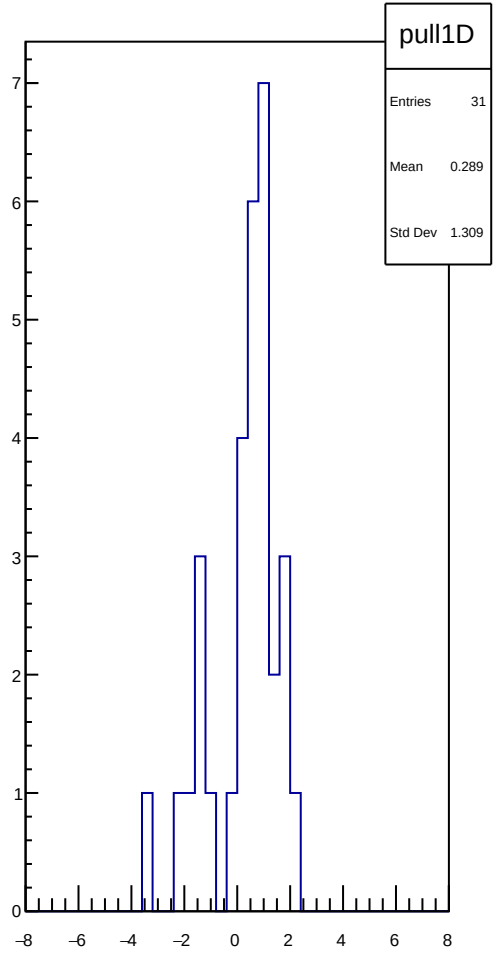

reg_asym_atl_avg_diff_bpm4aX_slope vs run
χ² / ndf 67.79 / 30
p0 −45.07 ± 9.051
10000
8000
6000
4000
2000
0
−2000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −5.491
Std Dev 20.02
3
2
1
0
−1
−2
−3

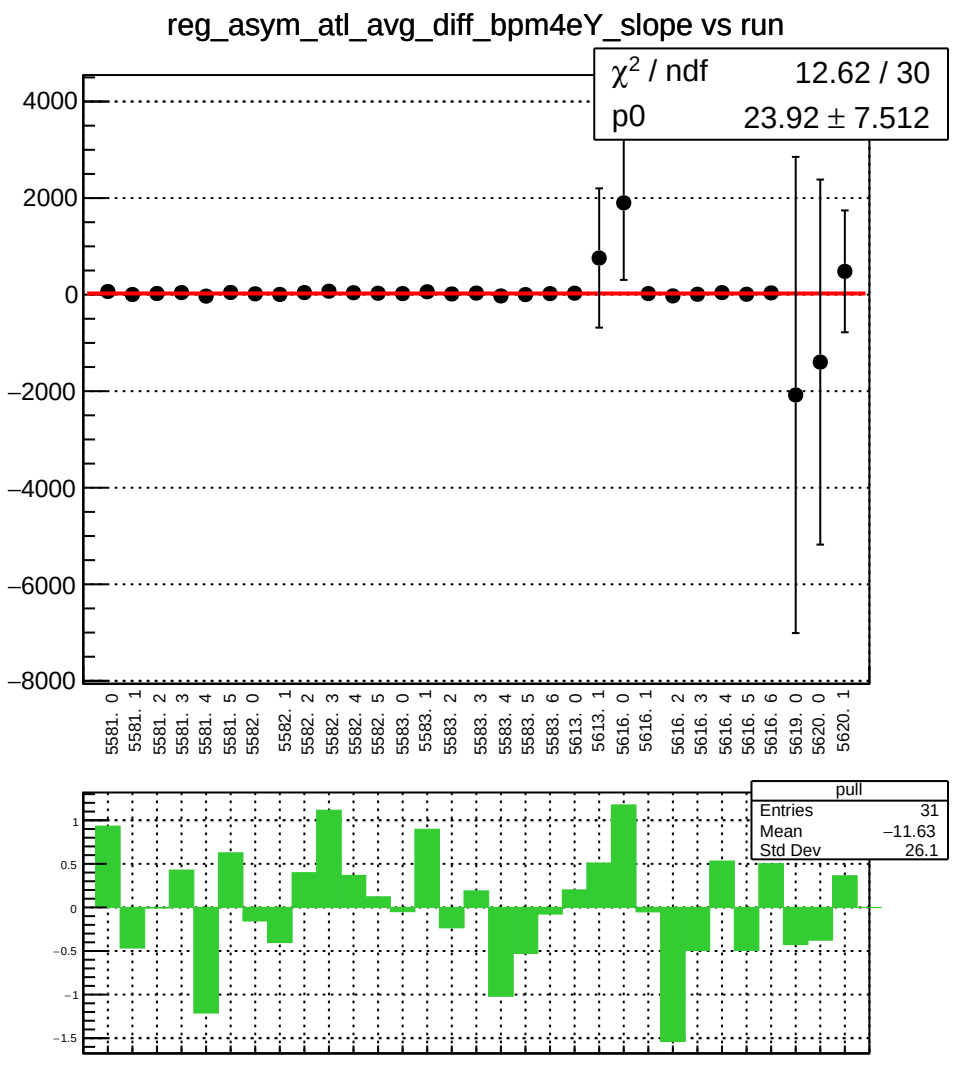

pull1D
Entries 31
Mean −0.3754
Std Dev 1.43
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

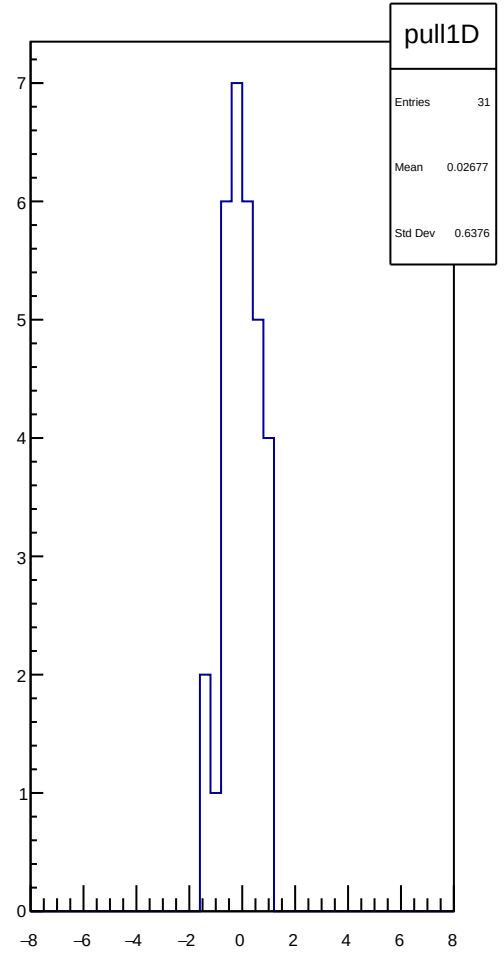

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 23.37 / 30
p0 3.108 ± 5.702
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −57.07
Std Dev 73.57
1.5
1
0.5
0
−0.5
−1
−1.5
−2

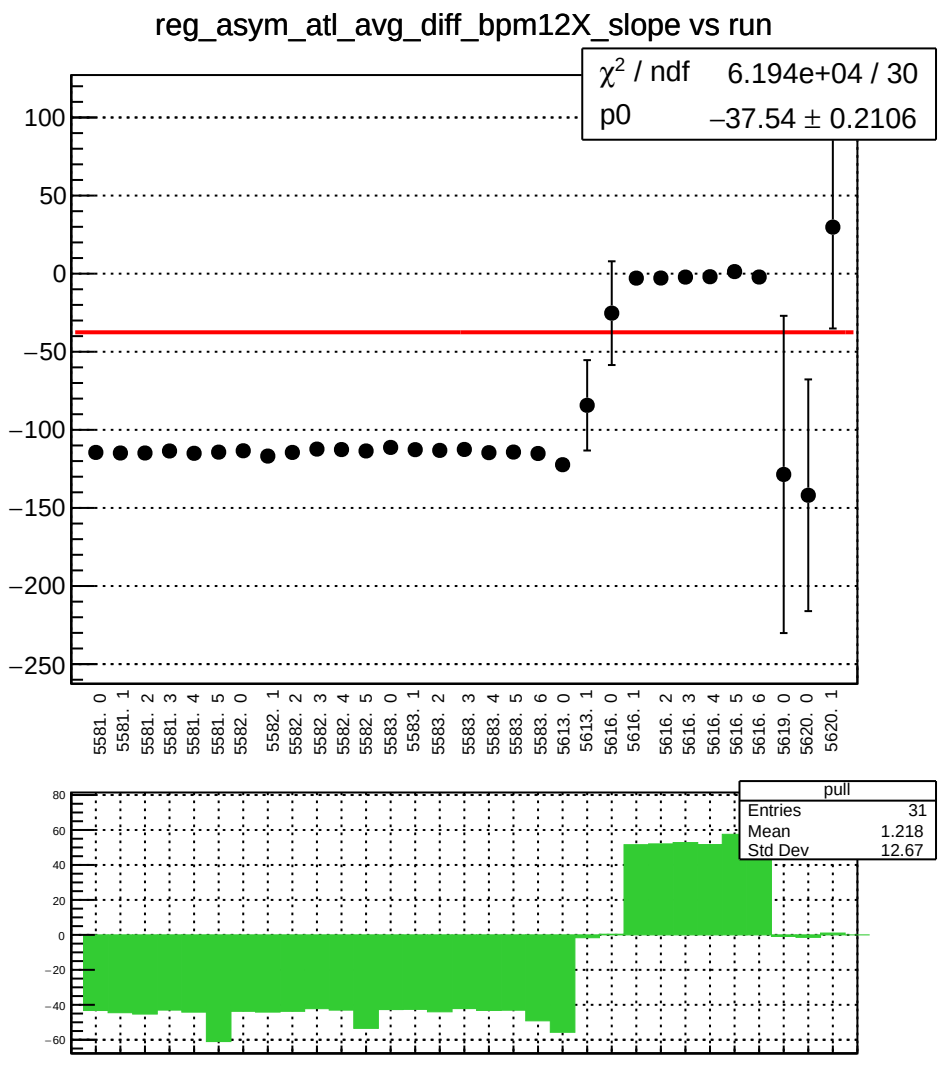

pull1D
Entries 31
Mean 0.05277
Std Dev 0.8667
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

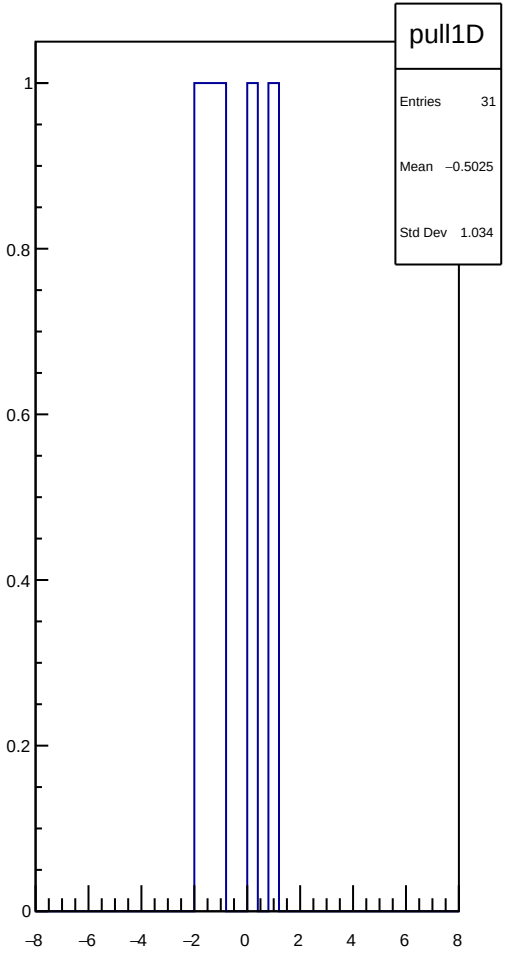

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 55.73 / 30
p0 71.73 ± 9.013
4000
2000
0
−2000
−4000
−6000
−8000
−10000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −9.185
Std Dev 23.9
2
1
0
−1
−2
−3

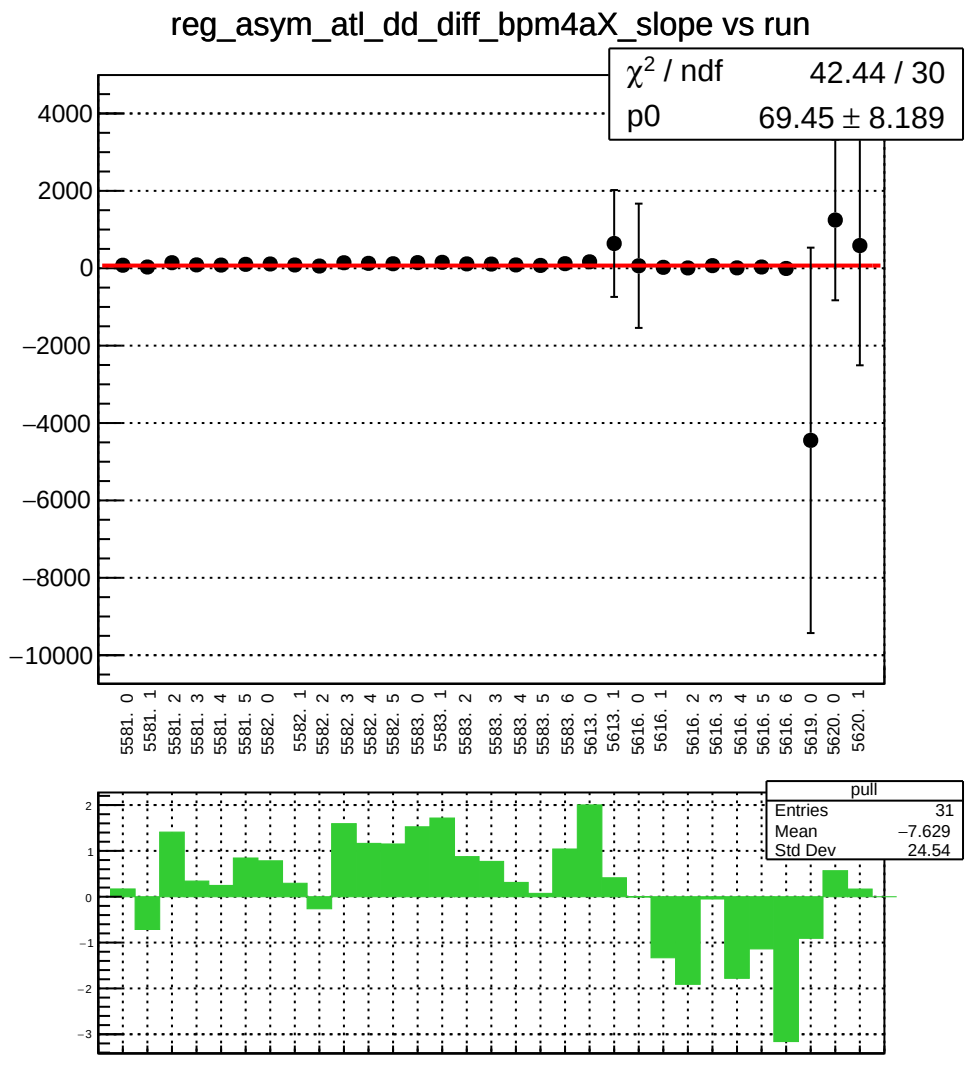

pull1D
Entries 31
Mean 0.289
Std Dev 1.309
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

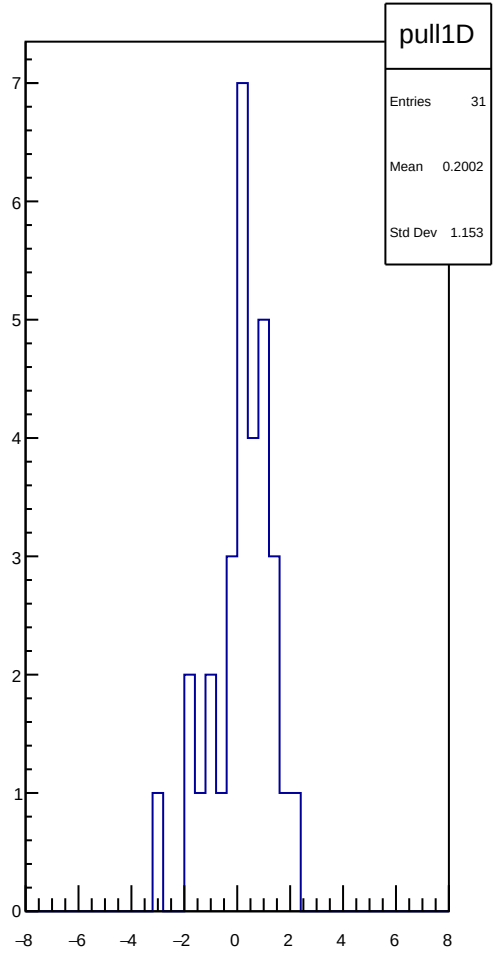

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 12.62 / 30
p0 23.92 ± 7.512
4000
2000
0
−2000
−4000
−6000
−8000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −11.63
Std Dev 26.1
1
0.5
0
−0.5
−1
−1.5

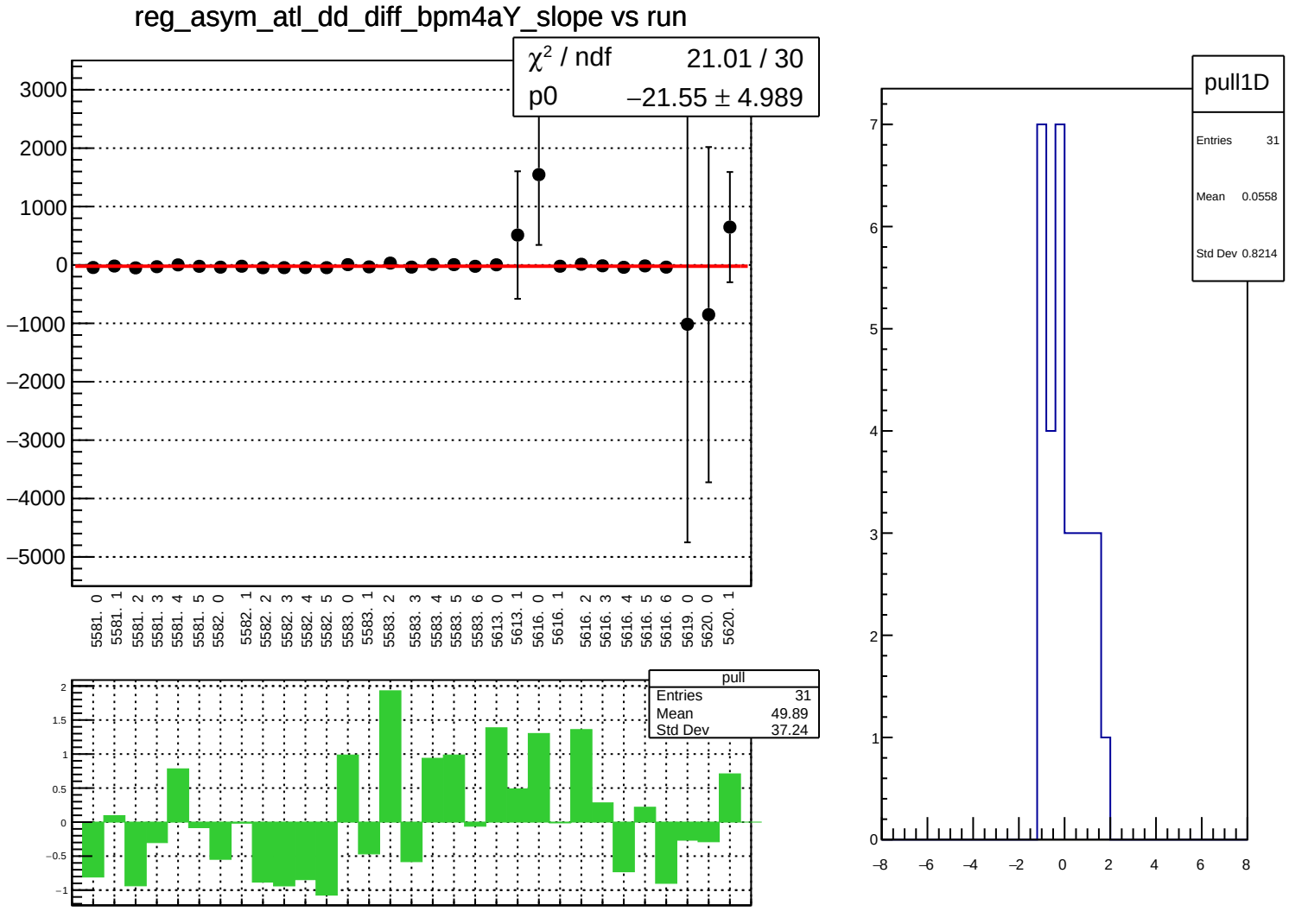

pull1D
Entries 31
Mean 0.02677
Std Dev 0.6376
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

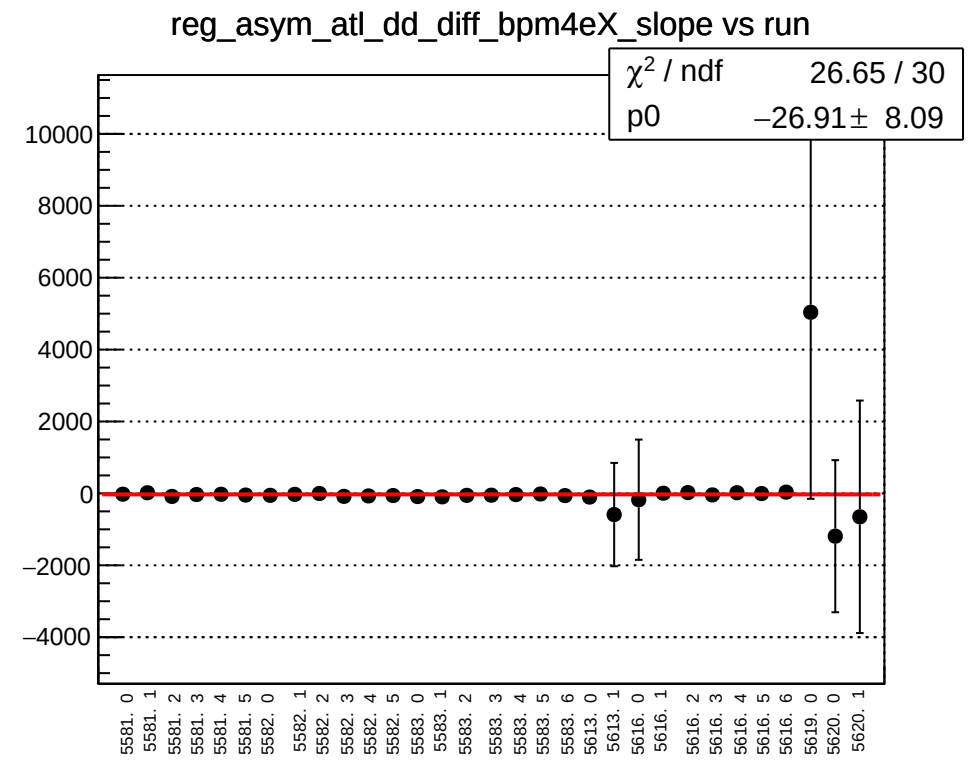

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 6.194e+04 / 30
p0 −37.54 ± 0.2106
100
50
0
−50
−100
−150
−200
−250
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 1.218
Std Dev 12.67
80
60
40
20
0
−20
−40
−60

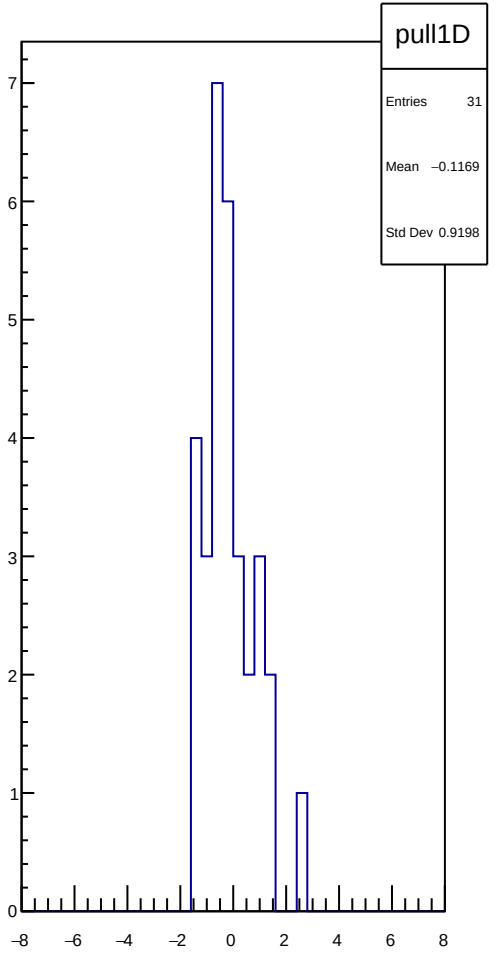

pull1D
Entries 31
Mean −0.5025
Std Dev 1.034
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

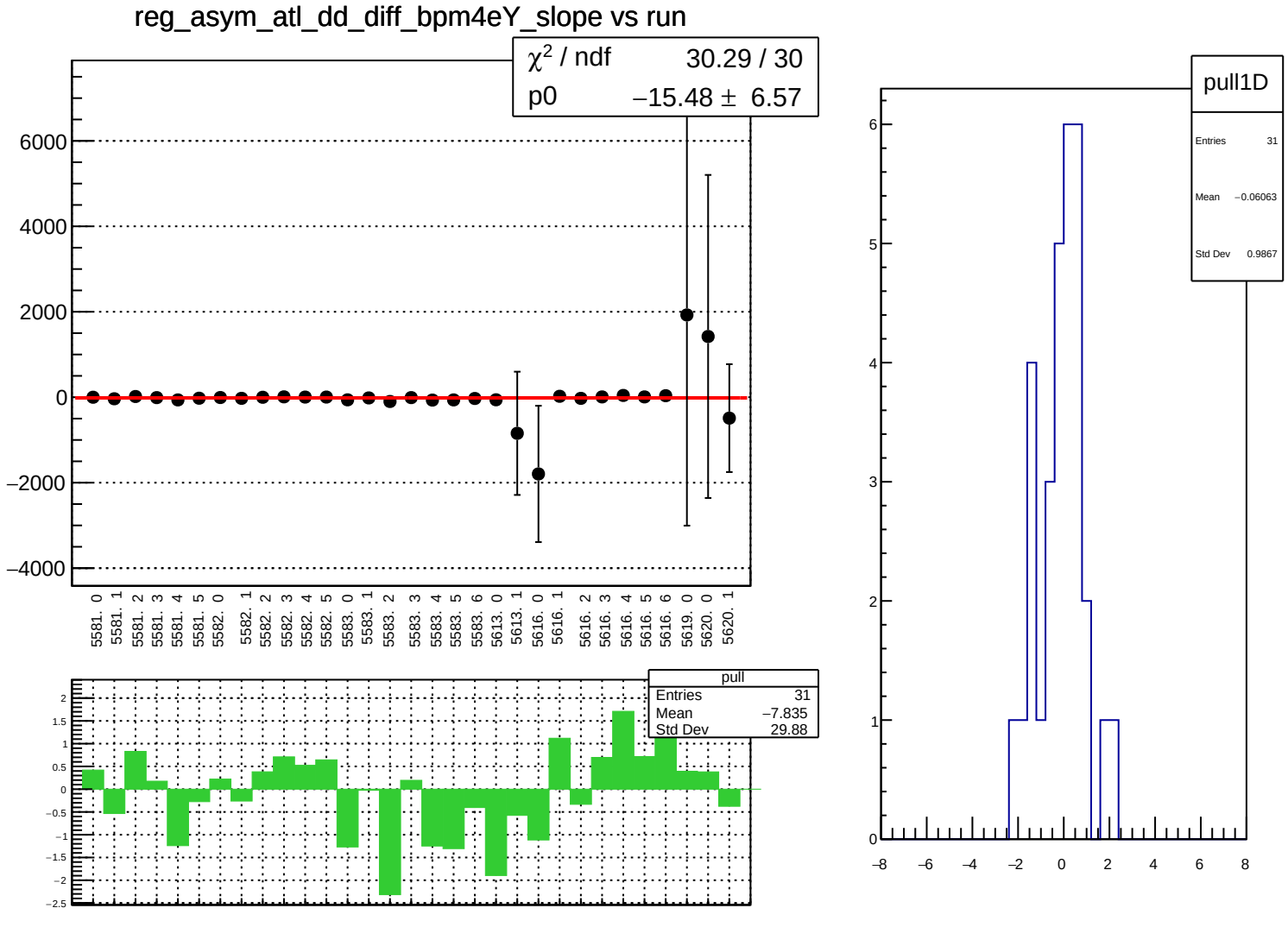

reg_asym_atl_dd_diff_bpm4aX_slope vs run
χ² / ndf 42.44 / 30
p0 69.45 ± 8.189
4000
2000
0
−2000
−4000
−6000
−8000
−10000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −7.629
Std Dev 24.54
2
1
0
−1
−2
−3

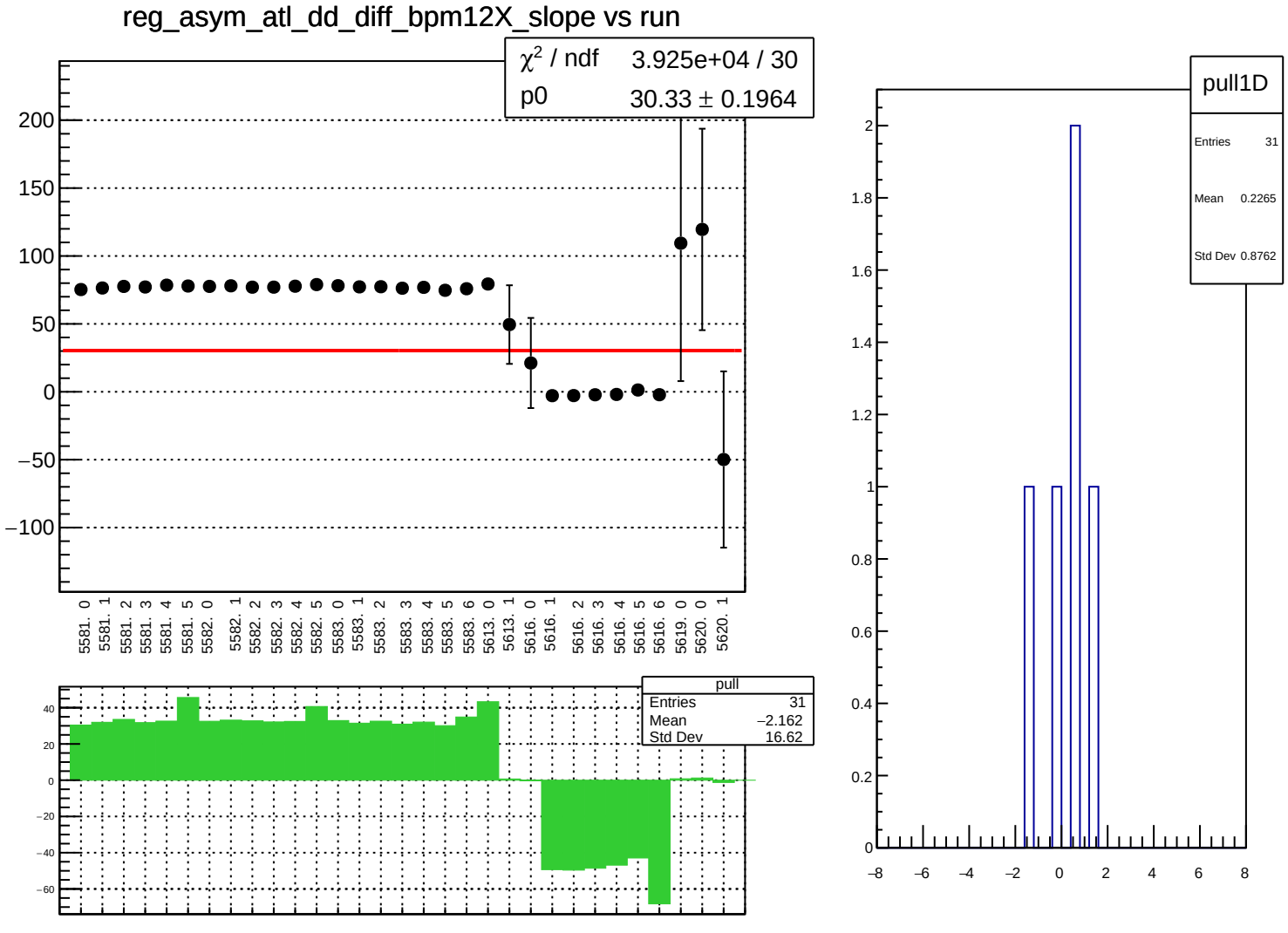

pull1D
Entries 31
Mean 0.2002
Std Dev 1.153
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

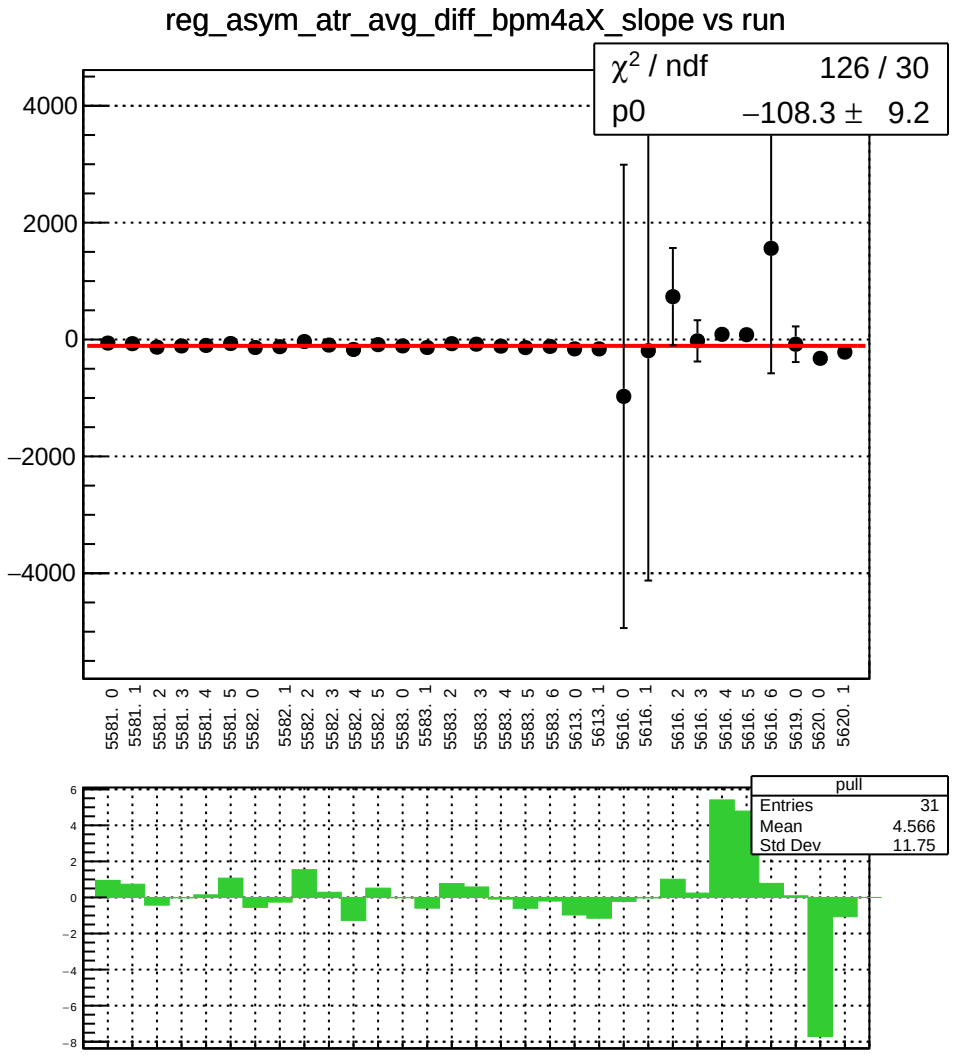

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 21.01 / 30
p0 −21.55 ± 4.989
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 49.89
Std Dev 37.24
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 31
Mean 0.0558
Std Dev 0.8214
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

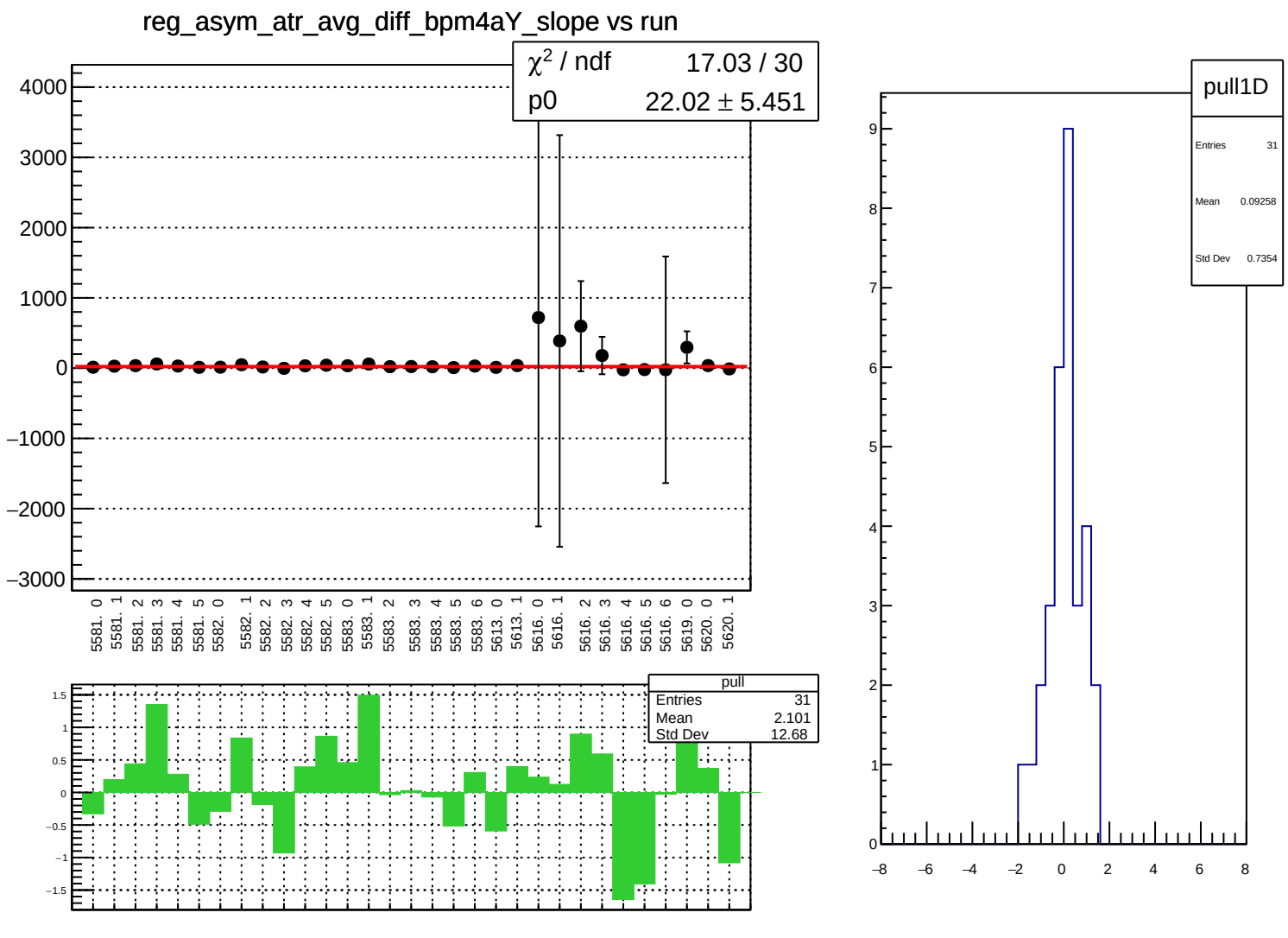

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 26.65 / 30
p0 −26.91± 8.09
10000
8000
6000
4000
2000
0
−2000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −8.518
Std Dev 26.59
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

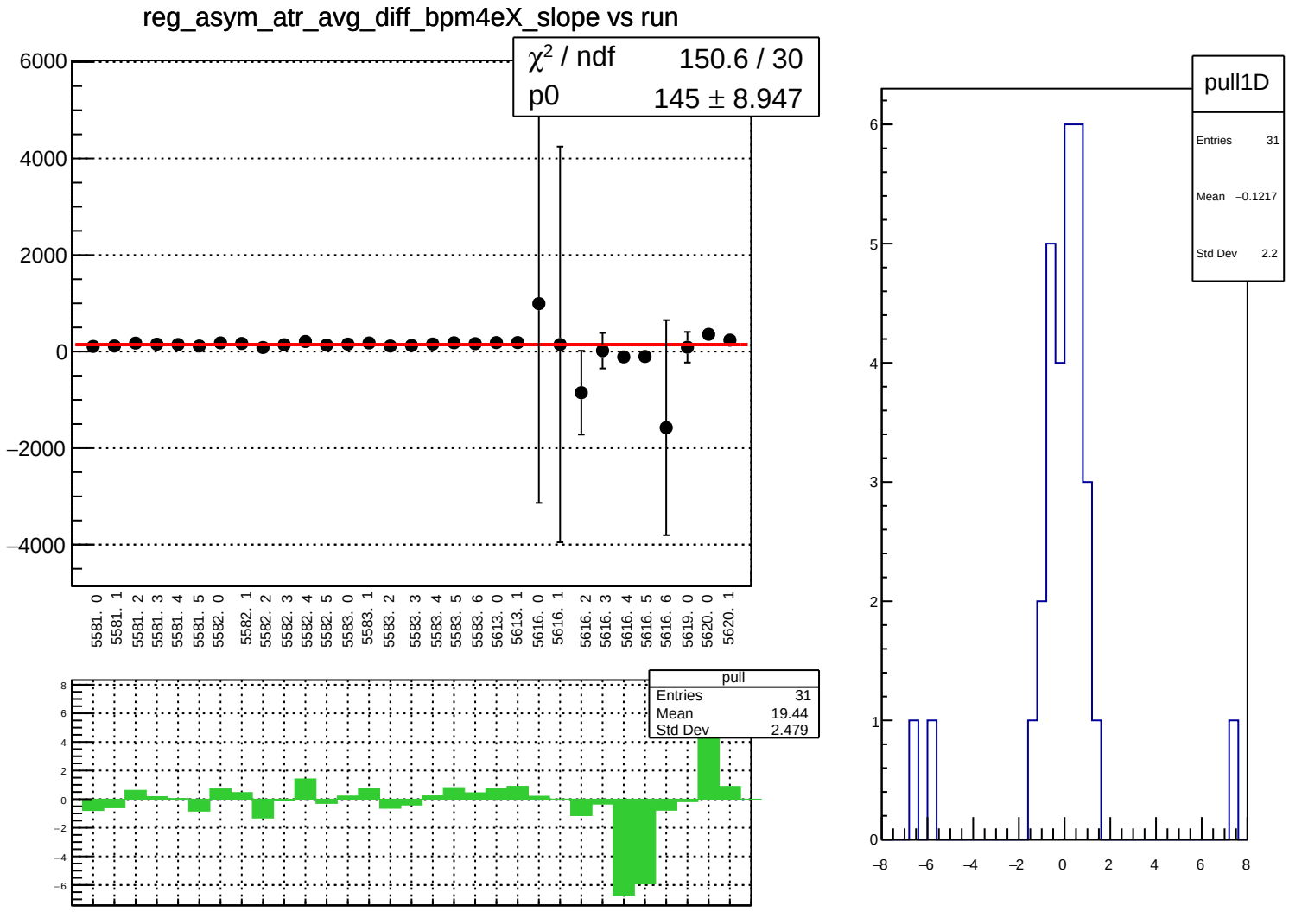

pull1D
Entries 31
Mean −0.1169
Std Dev 0.9198
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

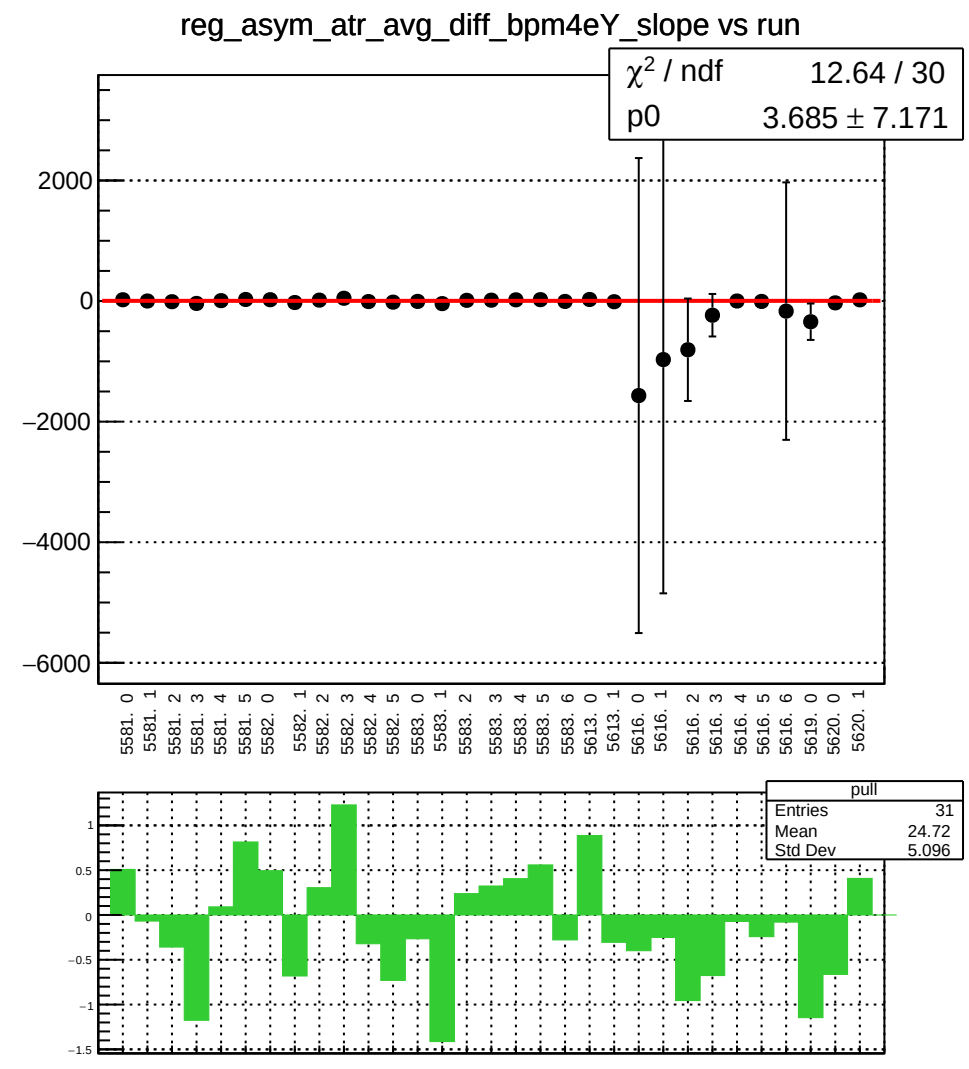

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 30.29 / 30
p0 −15.48 ± 6.57
6000
4000
2000
0
−2000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −7.835
Std Dev 29.88
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 31
Mean −0.06063
Std Dev 0.9867
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

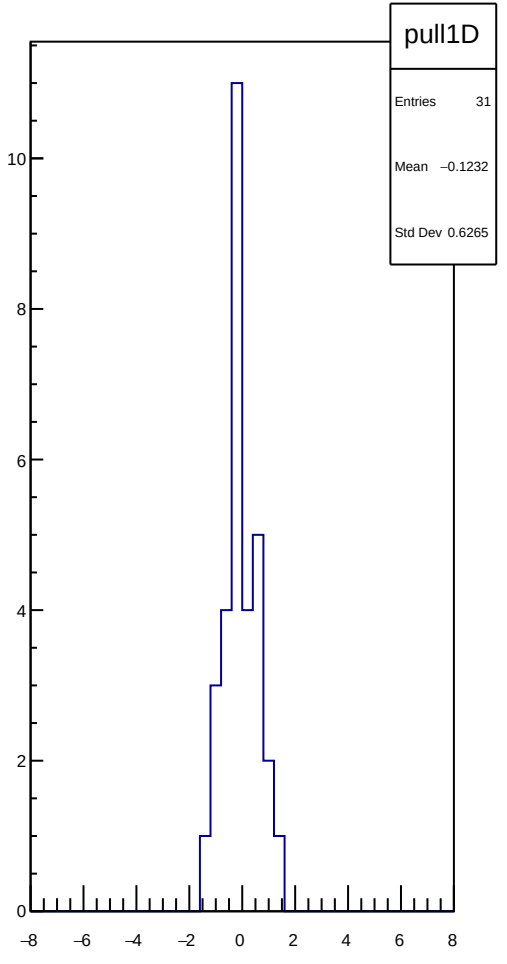

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 3.925e+04 / 30
p0 30.33 ± 0.1964
200
150
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −2.162
Std Dev 16.62
40
20
0
−20
−40
−60
pull1D
Entries 31
Mean 0.2265
Std Dev 0.8762
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

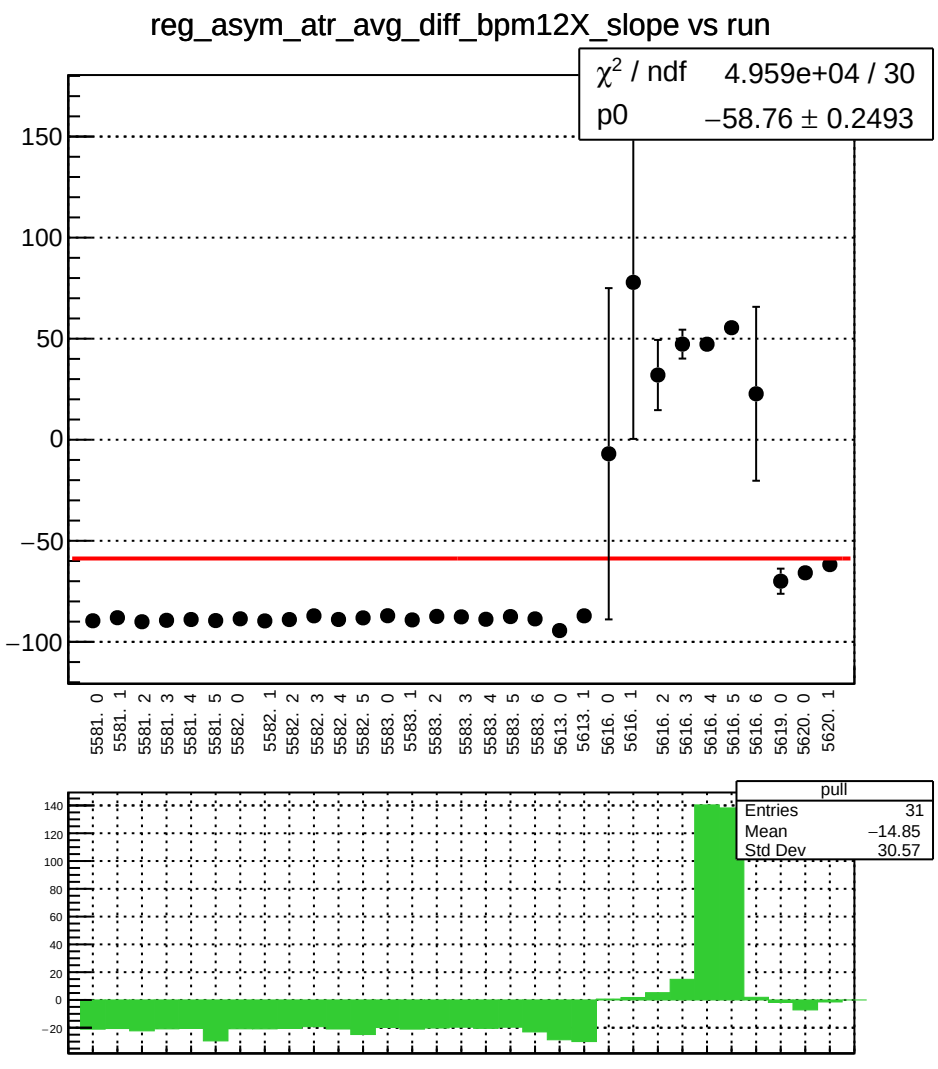

reg_asym_atr_avg_diff_bpm4aX_slope vs run
χ² / ndf 126 / 30
p0 −108.3 ± 9.2
4000
2000
0
−2000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 4.566
Std Dev 11.75
6
4
2
0
−2
−4
−6
−8
pull1D
Entries 31
Mean 0.1214
Std Dev 2.012
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

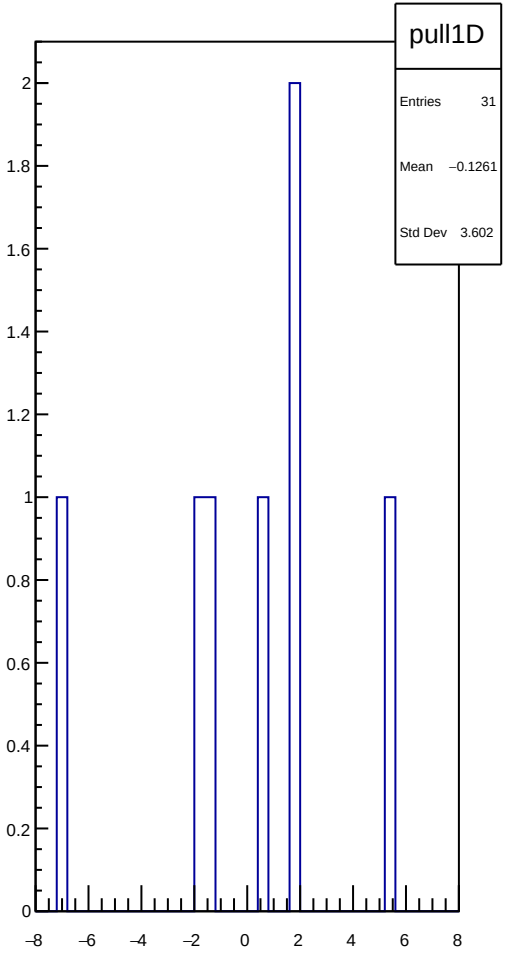

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 17.03 / 30
p0 22.02 ± 5.451
4000
3000
2000
1000
0
−1000
−2000
−3000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 2.101
Std Dev 12.68
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.09258
Std Dev 0.7354
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

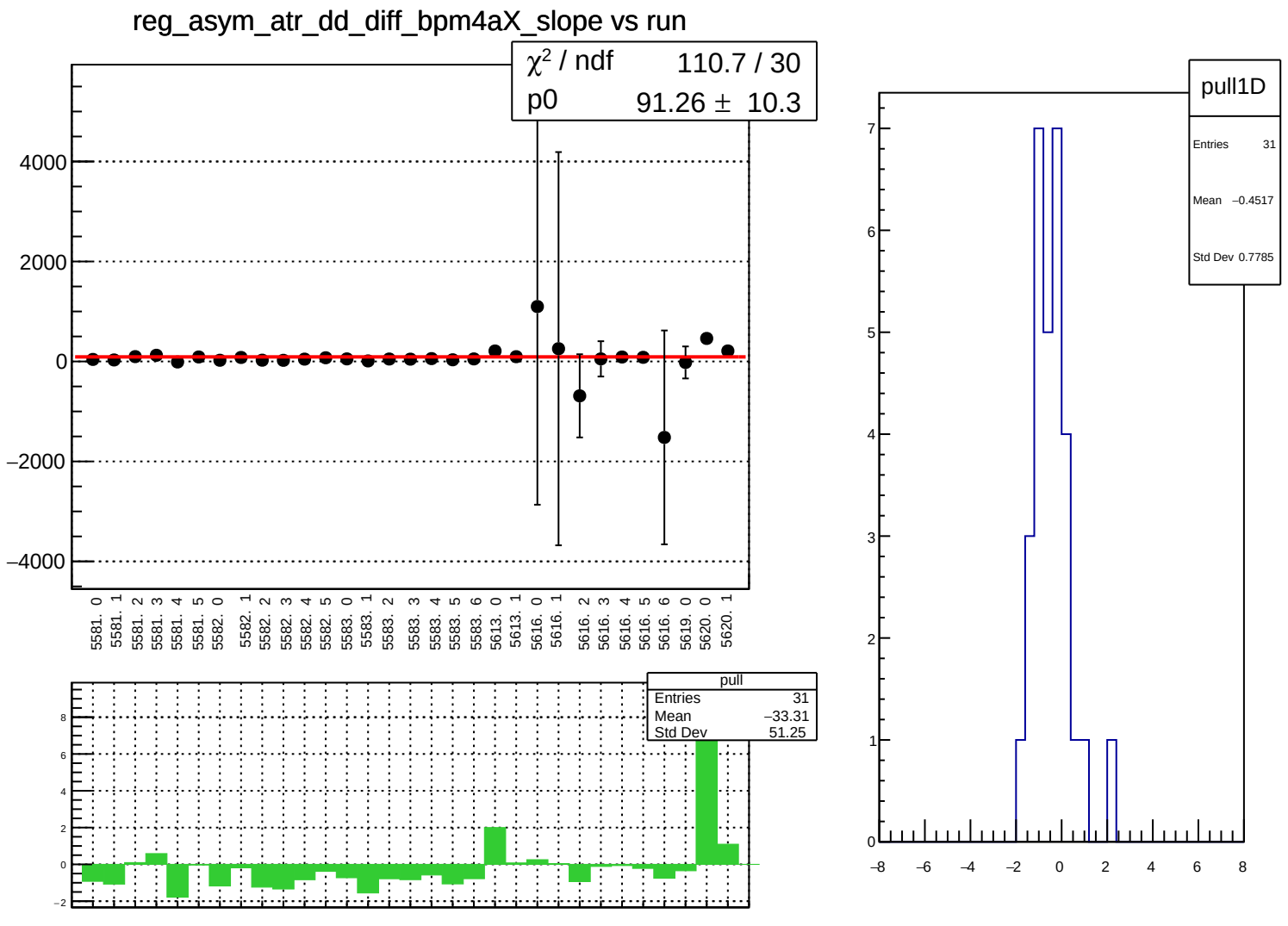

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 150.6 / 30
p0 145 ± 8.947
6000
4000
2000
0
−2000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 19.44
Std Dev 2.479
pull1D
Entries 31
Mean −0.1217
Std Dev 2.2

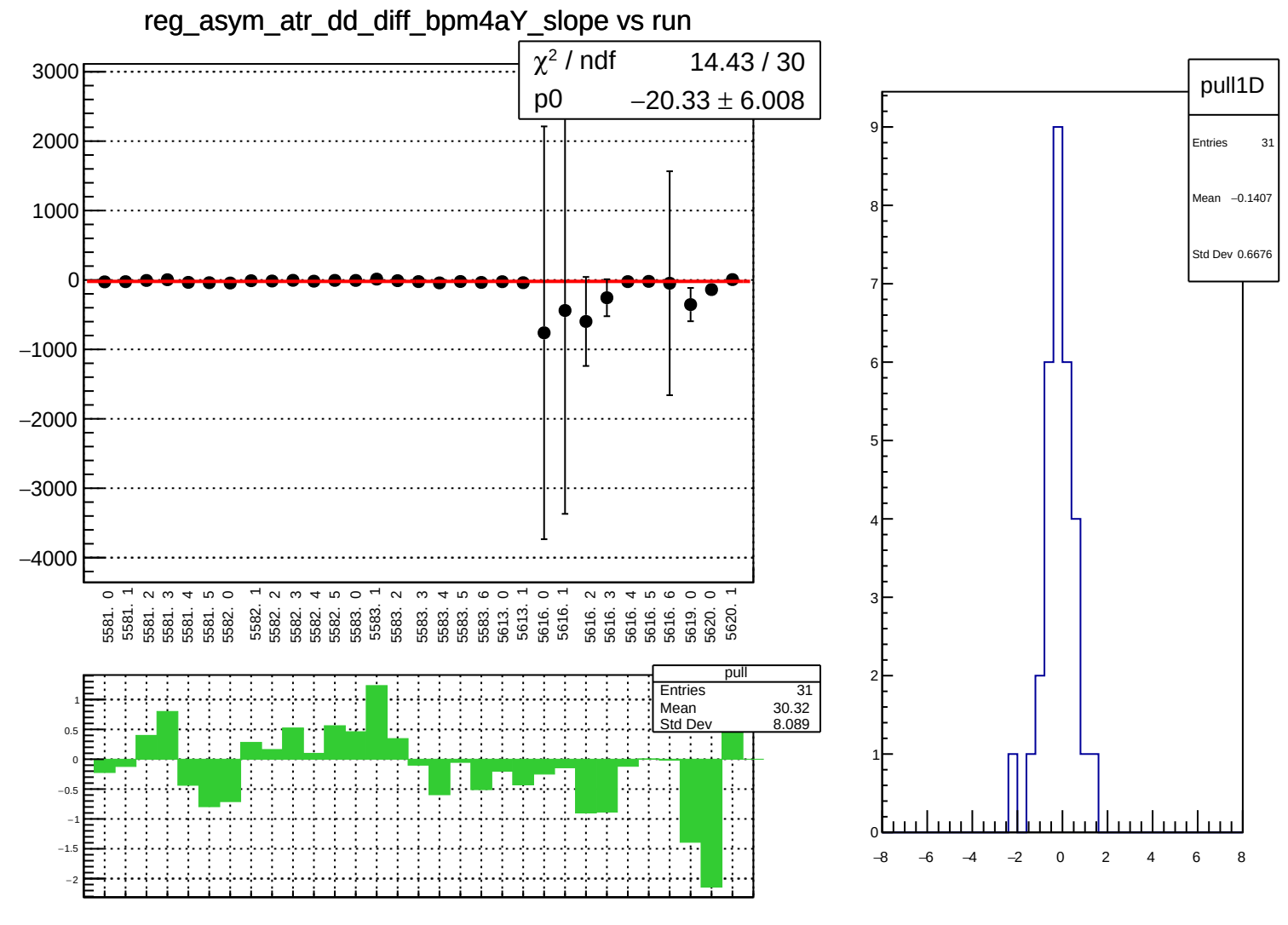

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 12.64 / 30
p0 3.685 ± 7.171
2000
0
−2000
−4000
−6000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 24.72
Std Dev 5.096
1
0.5
0
−0.5
−1
−1.5

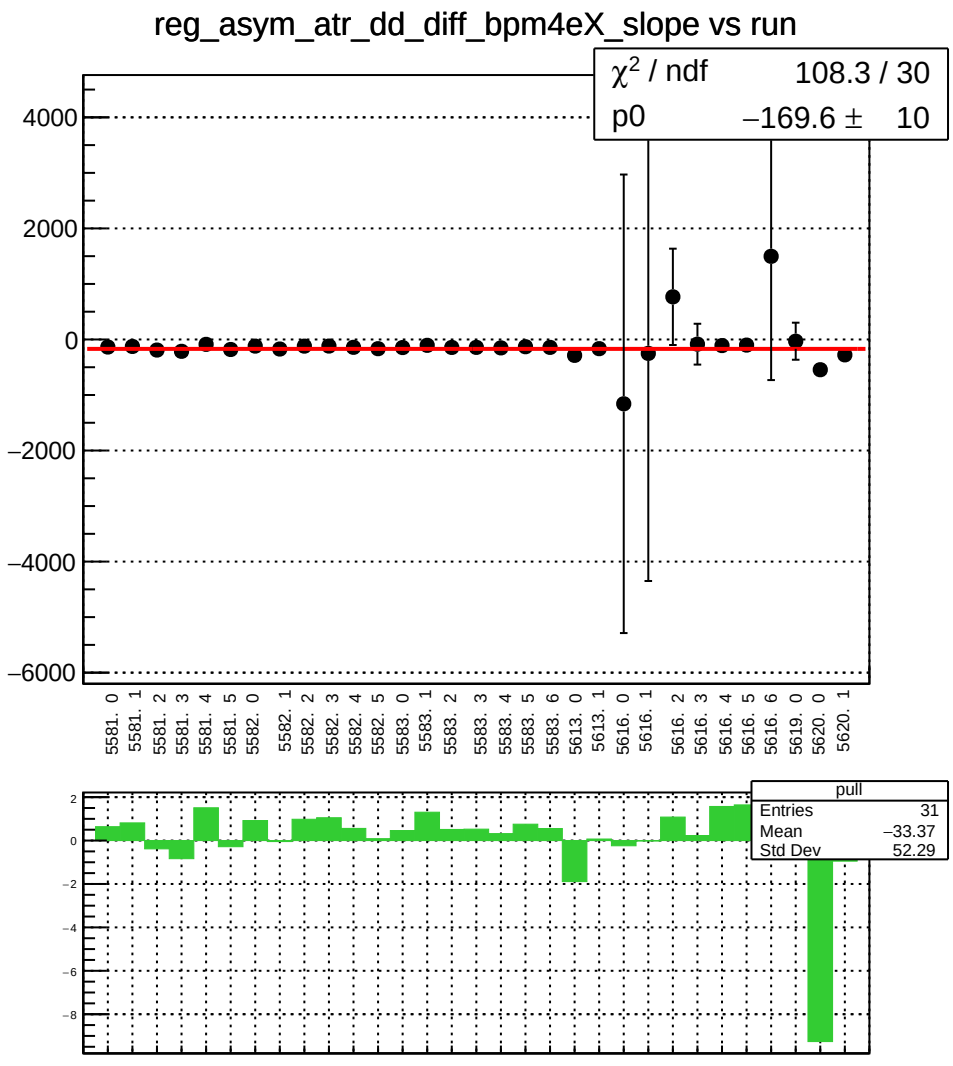

pull1D
Entries 31
Mean −0.1232
Std Dev 0.6265
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

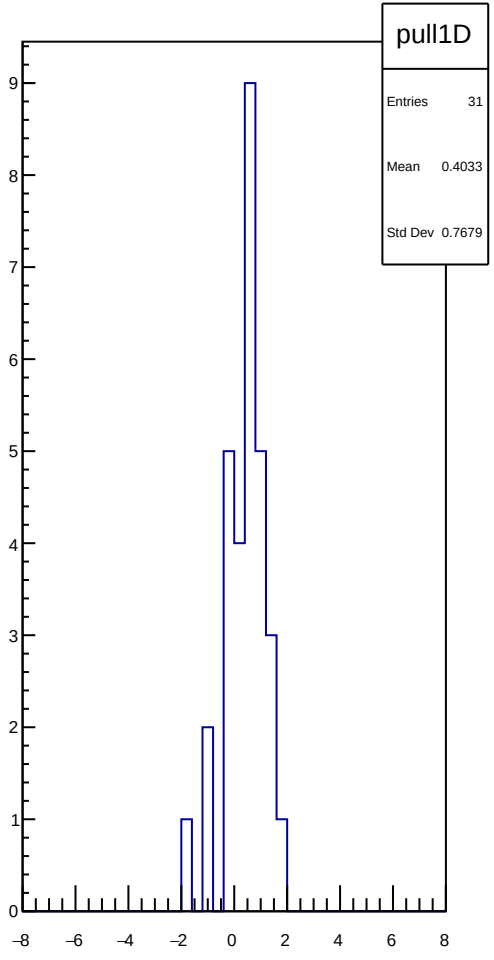

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 4.959e+04 / 30
p0 −58.76 ± 0.2493
150
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −14.85
Std Dev 30.57
140
120
100
80
60
40
20
0
−20

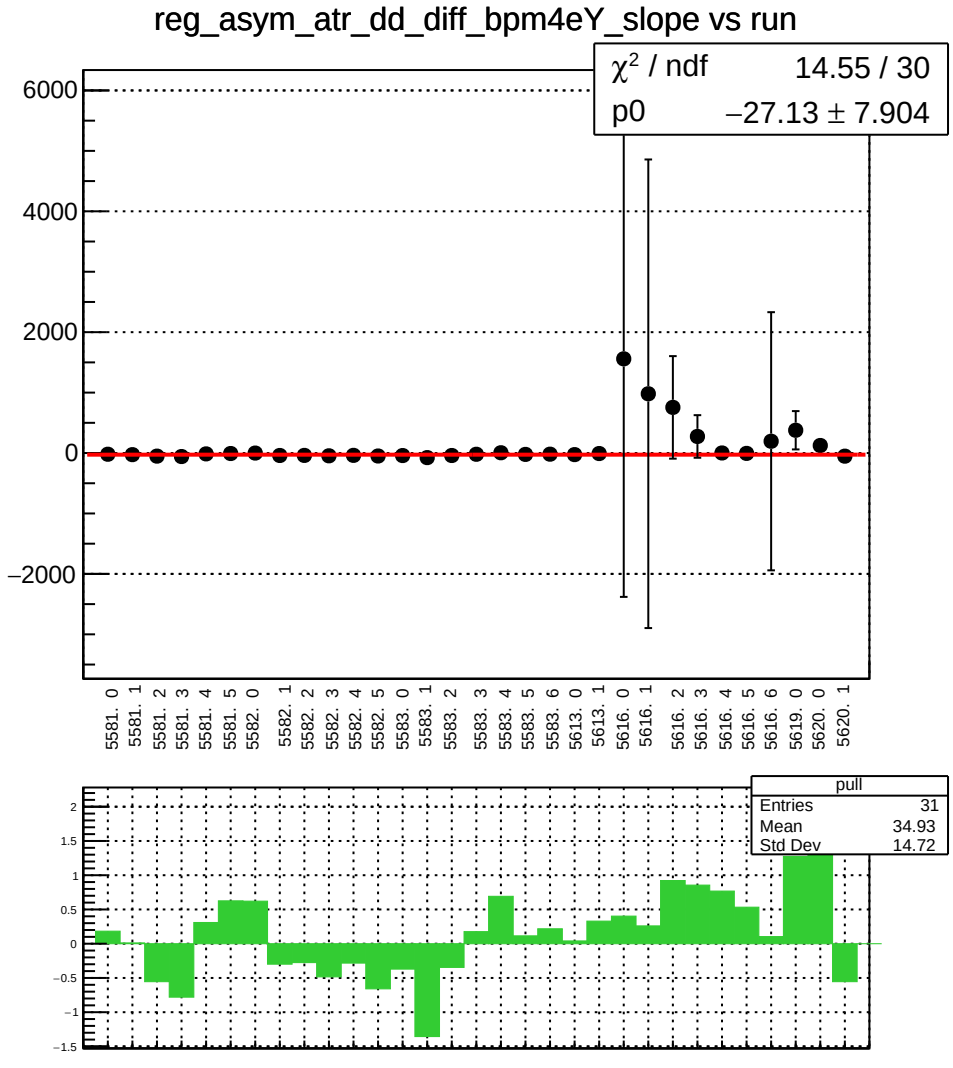

pull1D
Entries 31
Mean −0.1261
Std Dev 3.602
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

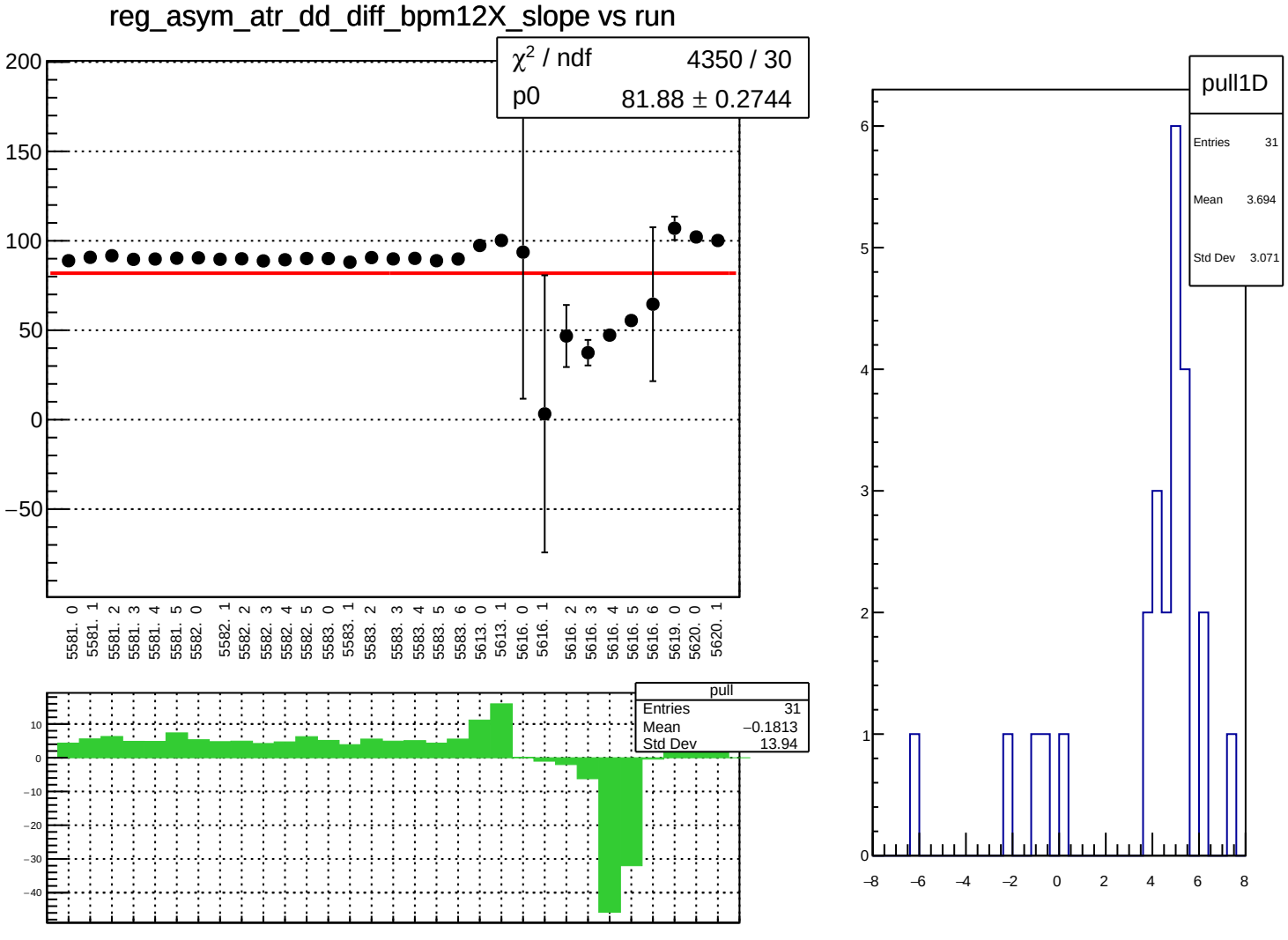

reg_asym_atr_dd_diff_bpm4aX_slope vs run
χ² / ndf 110.7 / 30
p0 91.26 ± 10.3
4000
2000
0
−2000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −33.31
Std Dev 51.25
8
6
4
2
0
−2
pull1D
Entries 31
Mean −0.4517
Std Dev 0.7785
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

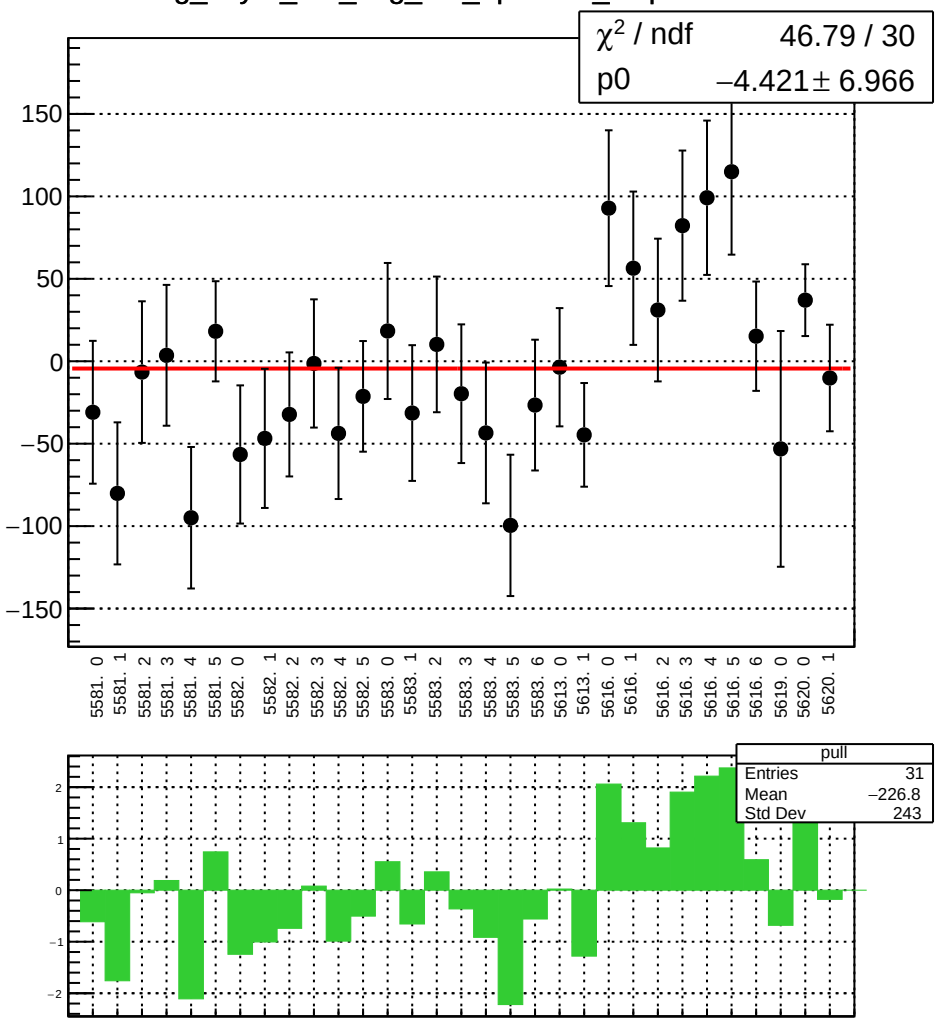

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 14.43 / 30
p0 −20.33 ± 6.008
3000
2000
1000
0
−1000
−2000
−3000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 30.32
Std Dev 8.089
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.1407
Std Dev 0.6676
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

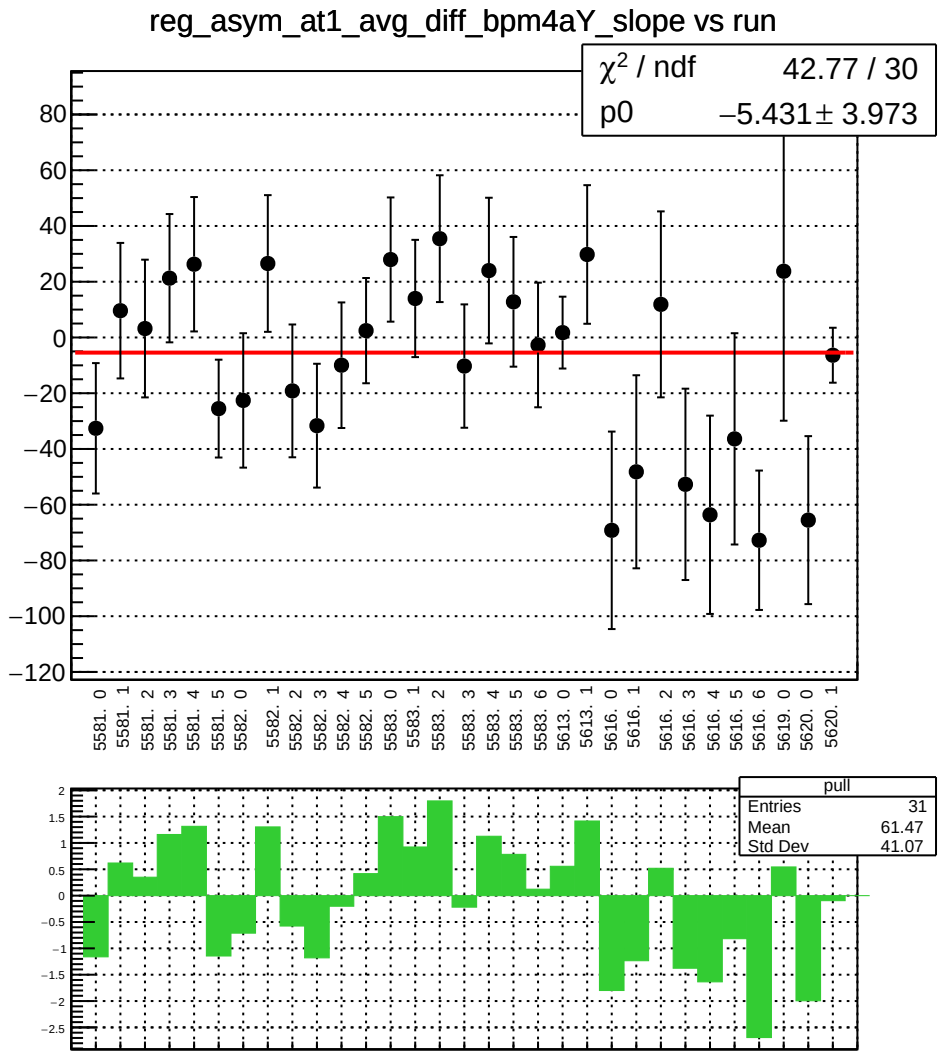

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 108.3 / 30
p0 −169.6 ± 10
4000
2000
0
−2000
−4000
−6000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −33.37
Std Dev 52.29
2
0
−2
−4
−6
−8

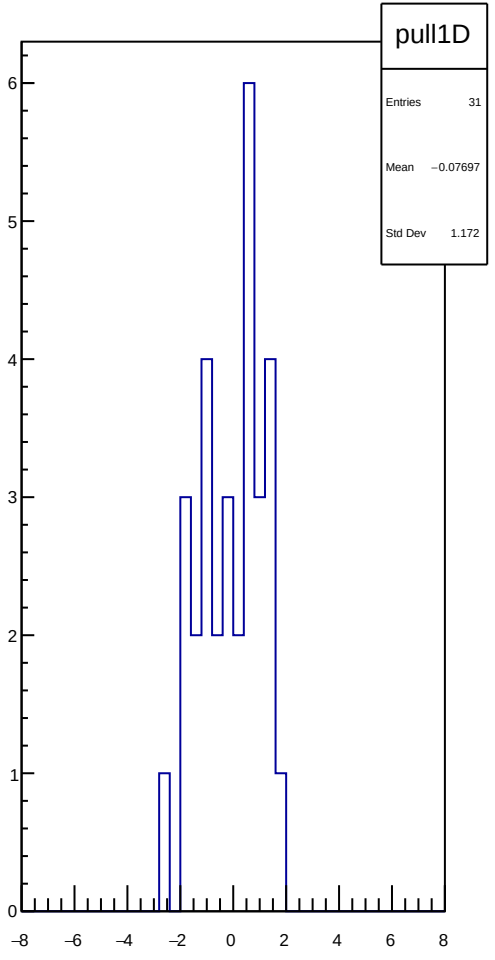

pull1D
Entries 31
Mean 0.4033
Std Dev 0.7679
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

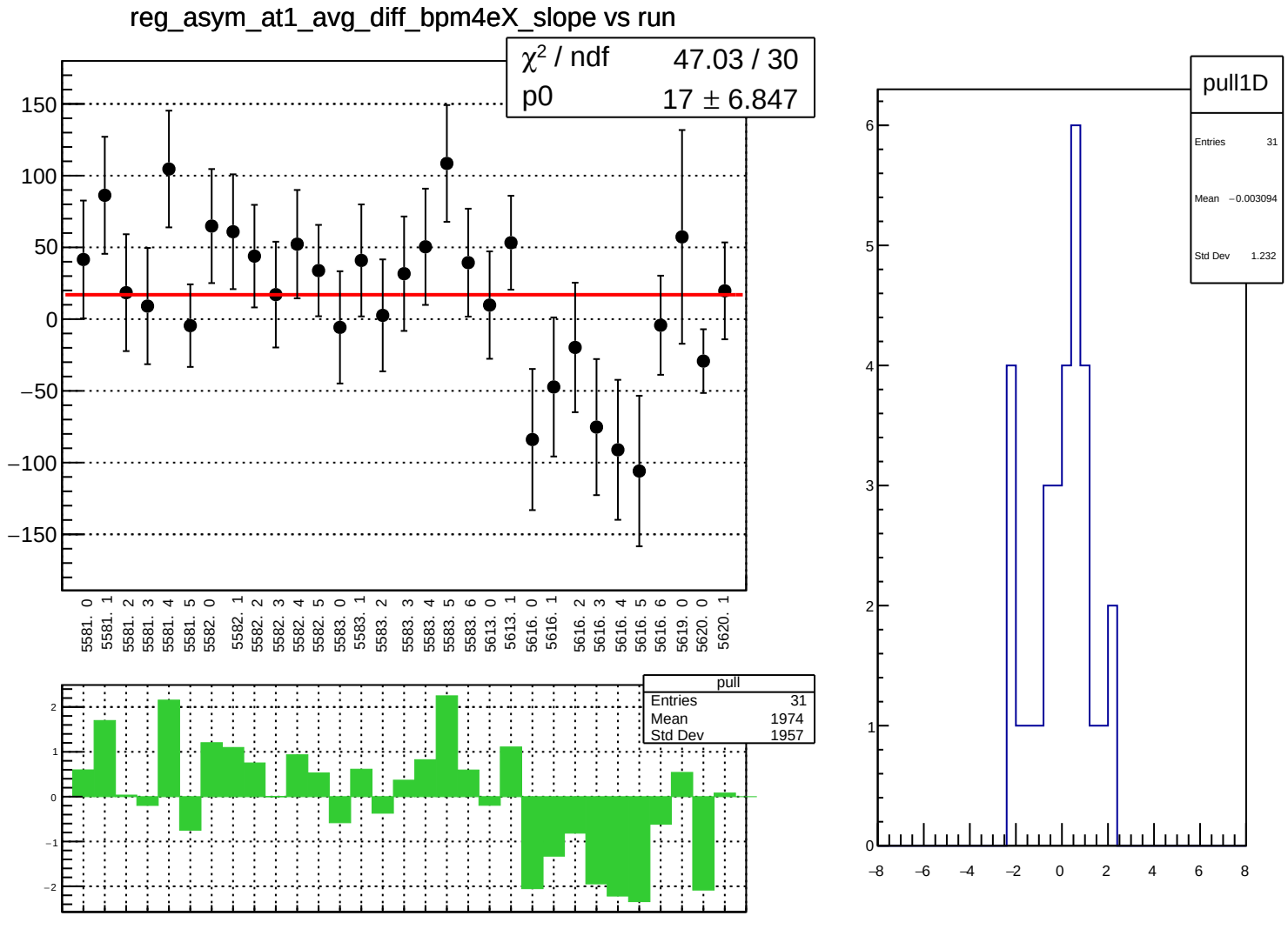

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 14.55 / 30
p0 −27.13 ± 7.904
6000
4000
2000
0
−2000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 34.93
Std Dev 14.72
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.1477
Std Dev 0.6689
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

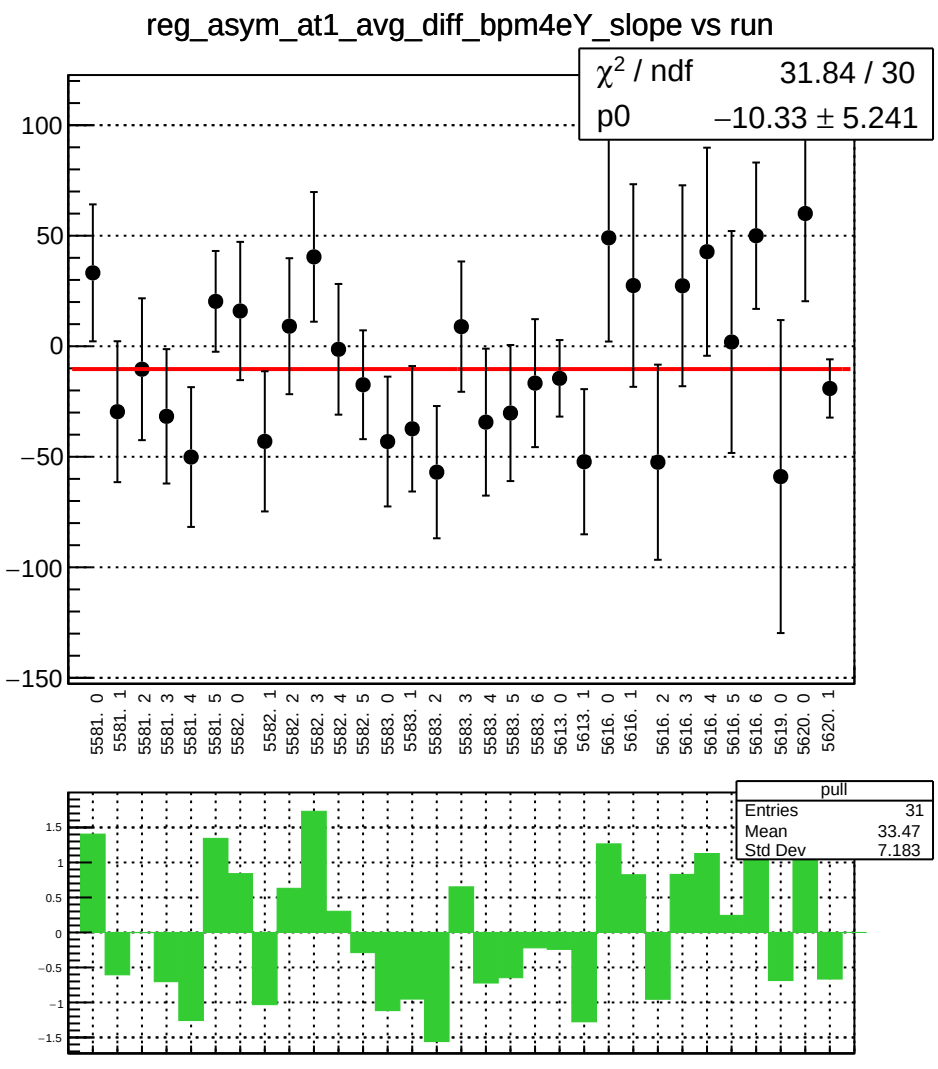

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 4350 / 30
p0 81.88 ± 0.2744
200
150
100
50
0
−50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −0.1813
Std Dev 13.94
10
0
−10
−20
−30
−40
pull1D
Entries 31
Mean 3.694
Std Dev 3.071
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

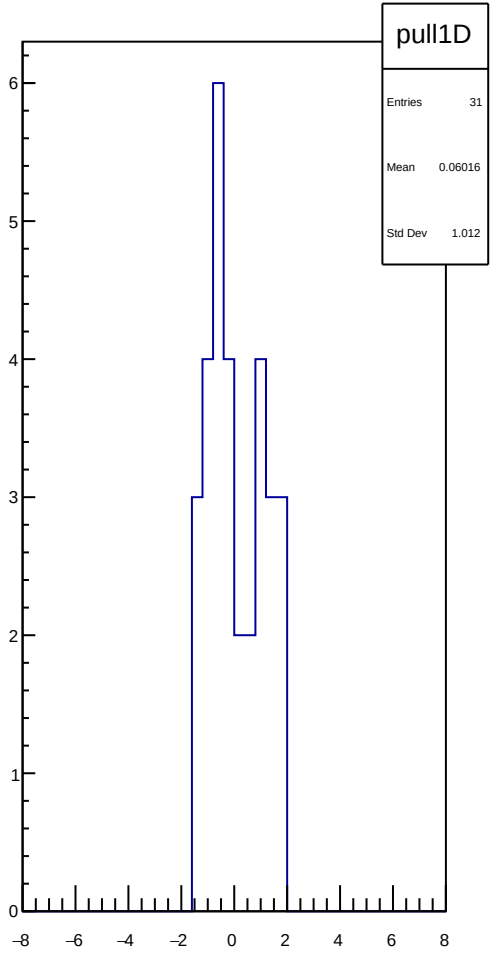

reg_asym_at1_avg_diff_bpm4aX_slope vs run
χ² / ndf 46.79 / 30
p0 −4.421 ± 6.966
150
100
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −226.8
Std Dev 243
2
1
0
−1
−2
pull1D
Entries 31
Mean −0.02402
Std Dev 1.228
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

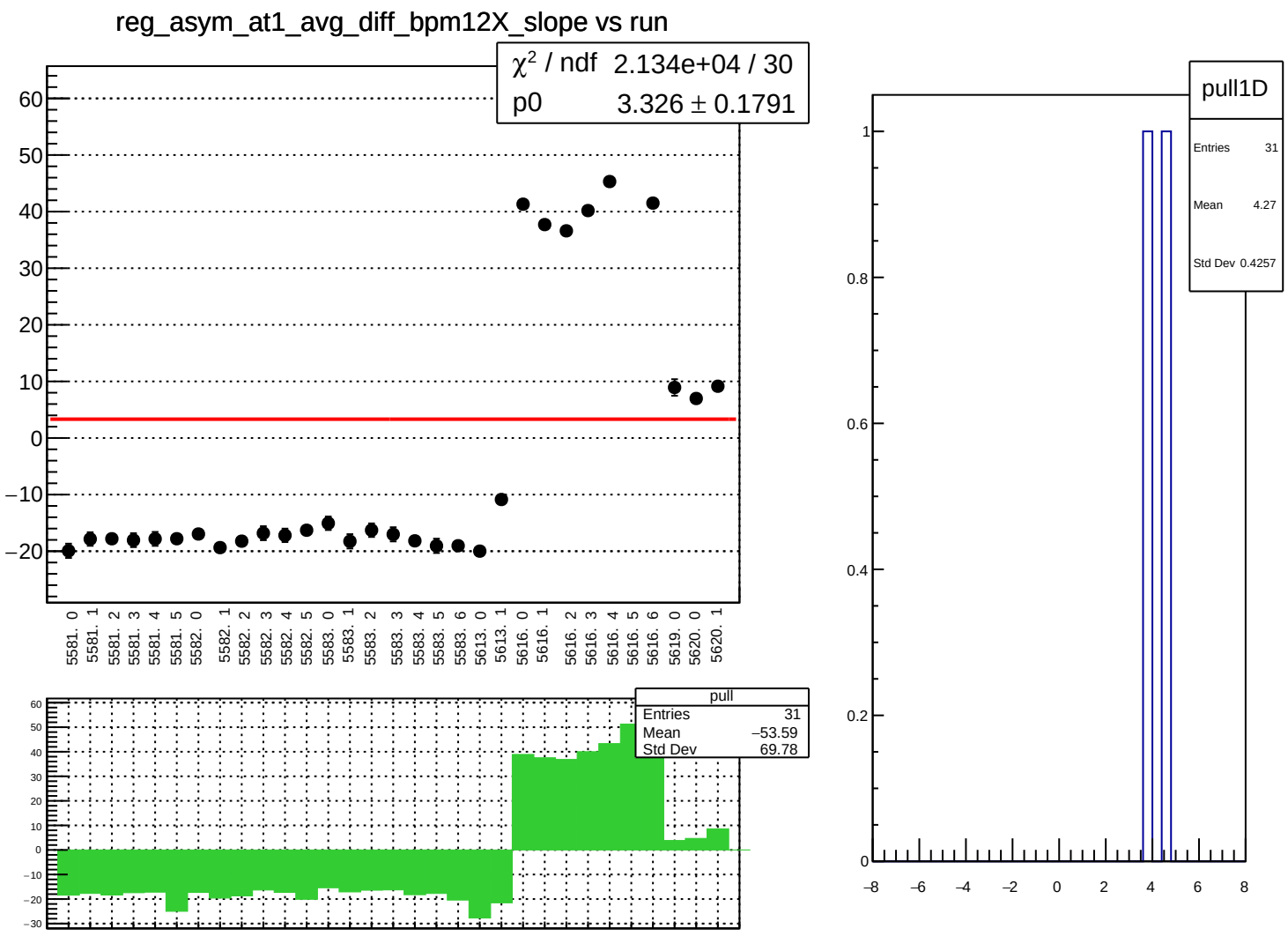

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 42.77 / 30
p0 −5.431 ± 3.973
pull
Entries 31
Mean 61.47
Std Dev 41.07

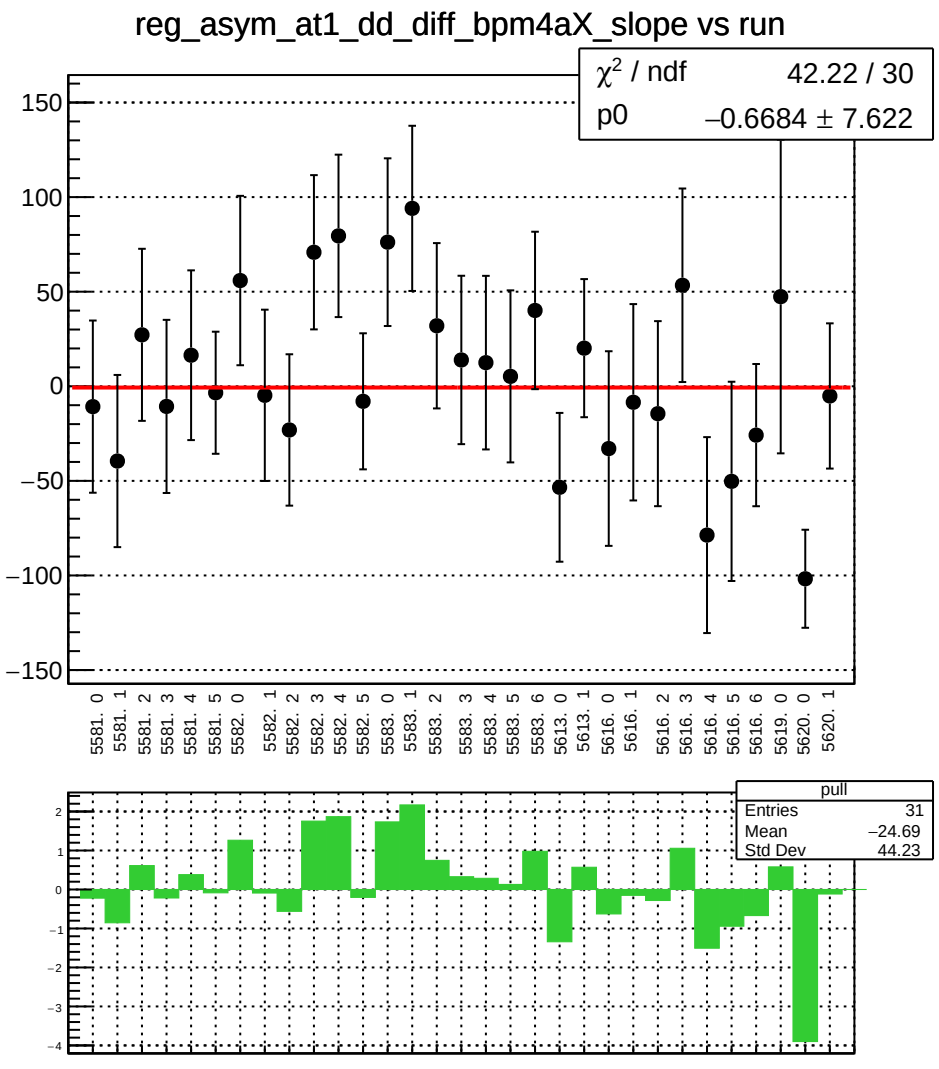

pull1D
Entries 31
Mean −0.07697
Std Dev 1.172


reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 47.03 / 30
p0 17 ± 6.847
150
100
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 1974
Std Dev 1957
2
1
0
−1
−2
pull1D
Entries 31
Mean −0.003094
Std Dev 1.232
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 31.84 / 30
p0 −10.33 ± 5.241
100
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 33.47
Std Dev 7.183
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 31
Mean 0.06016
Std Dev 1.012
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 2.134e+04 / 30
p0 3.326 ± 0.1791
60
50
40
30
20
10
0
−10
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −53.59
Std Dev 69.78
pull1D
Entries 31
Mean 4.27
Std Dev 0.4257
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_at1_dd_diff_bpm4aX_slope vs run
χ² / ndf 42.22 / 30
p0 −0.6684 ± 7.622
150
100
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
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5582. 3
5582. 4
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5583. 0
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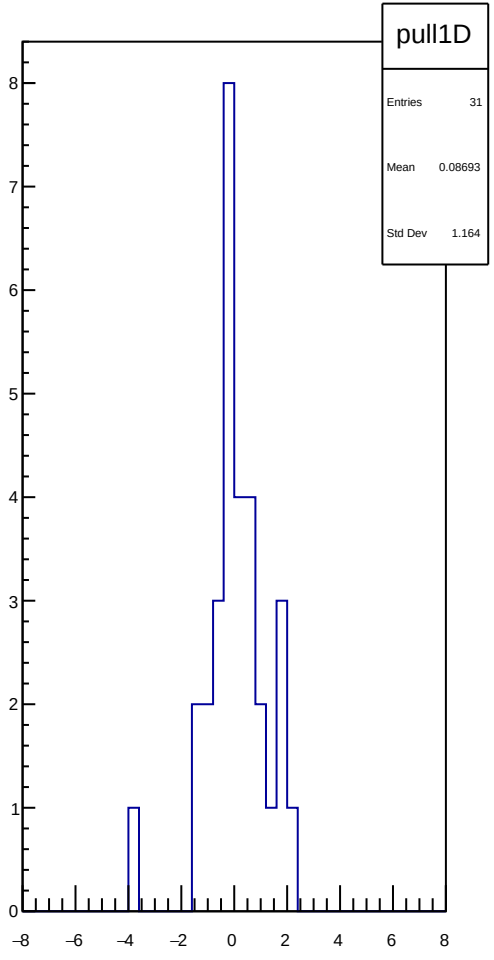
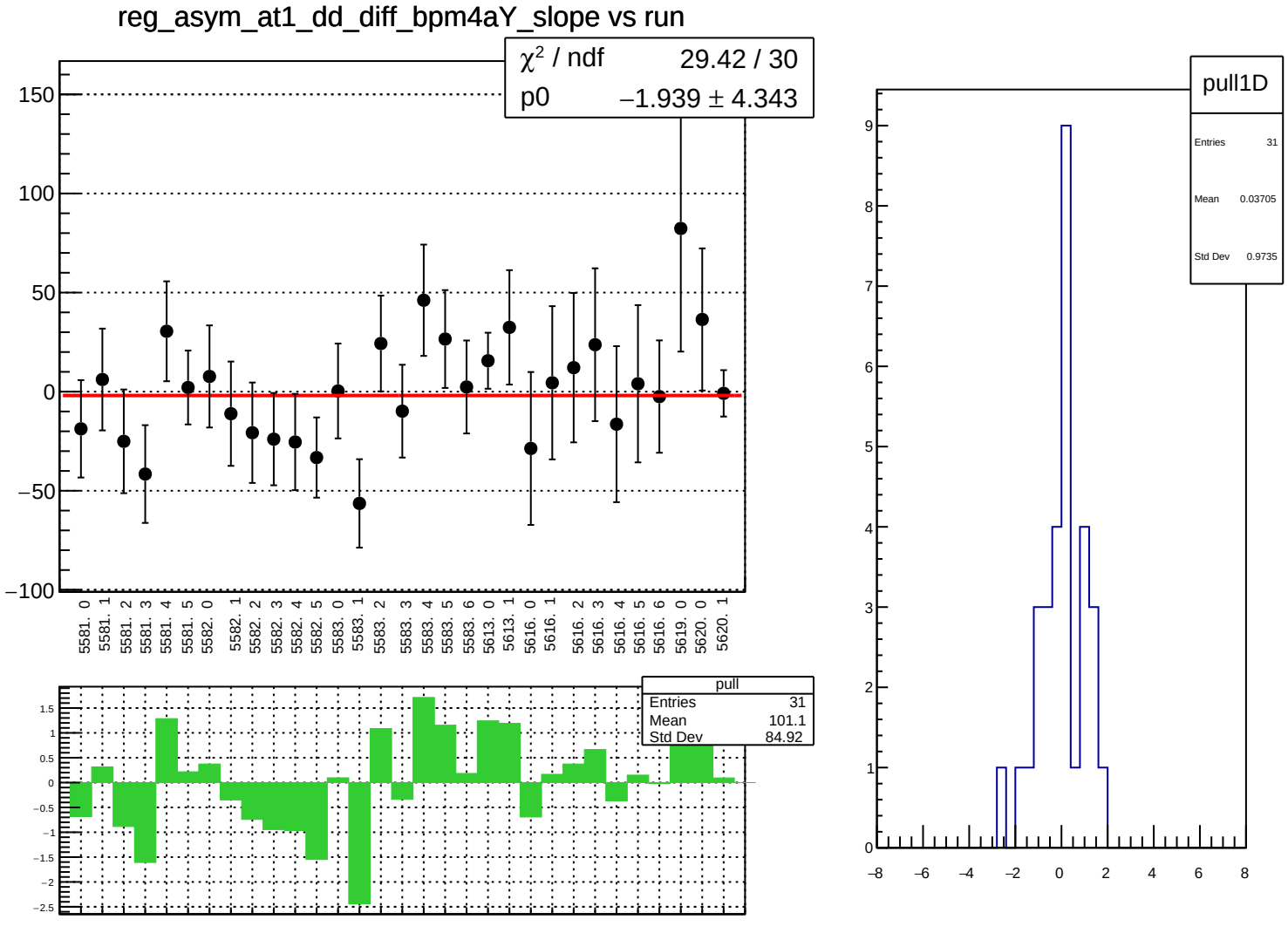
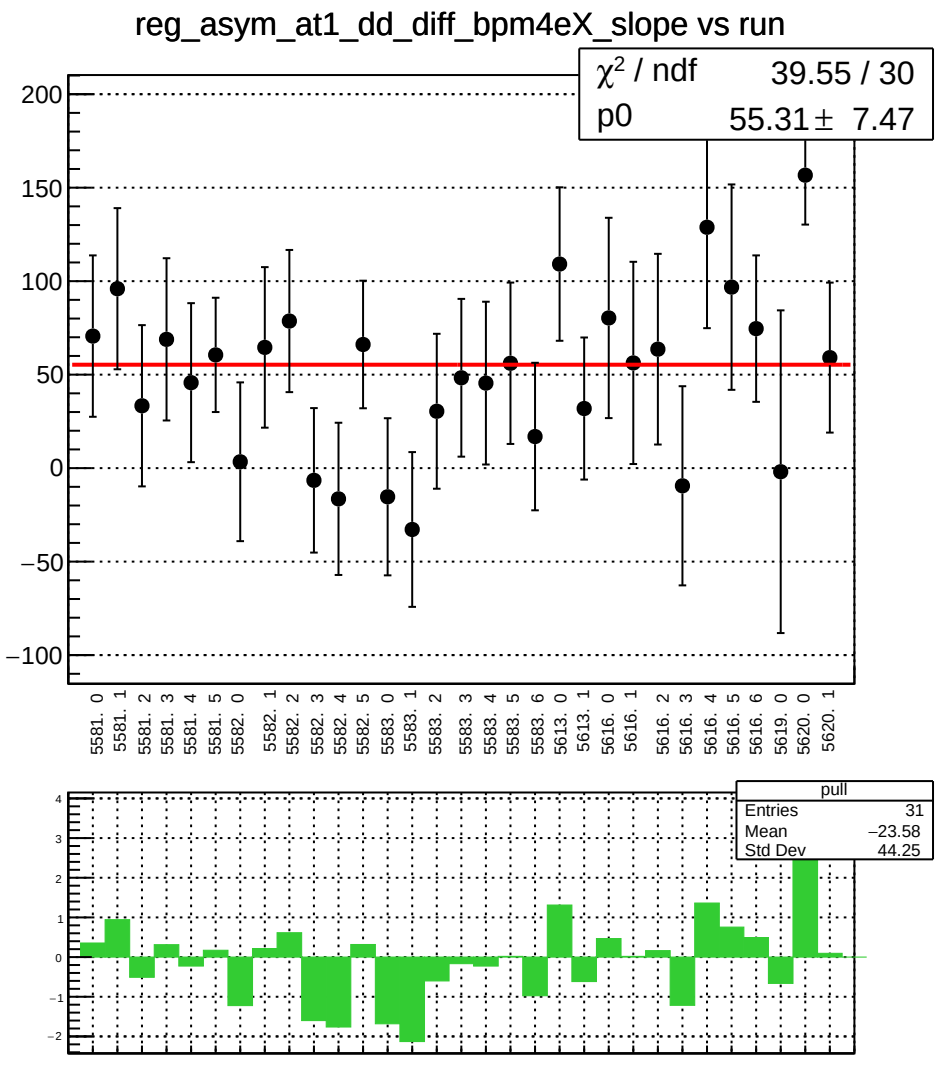
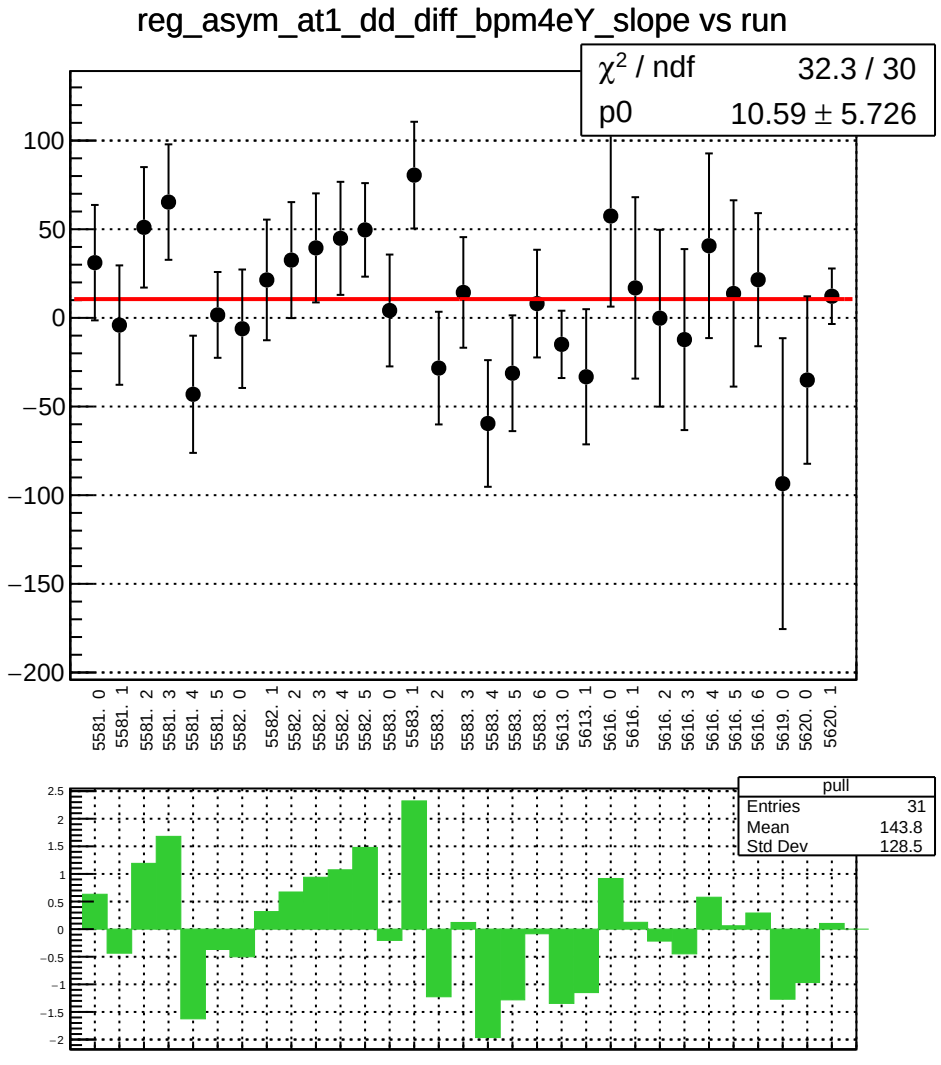
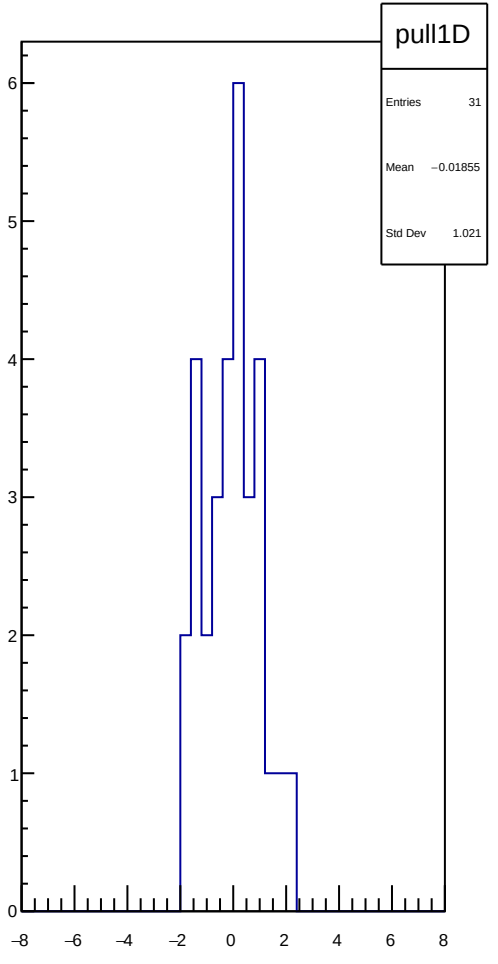
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −24.69
Std Dev 44.23
2
1
0
−1
−2
−3
−4

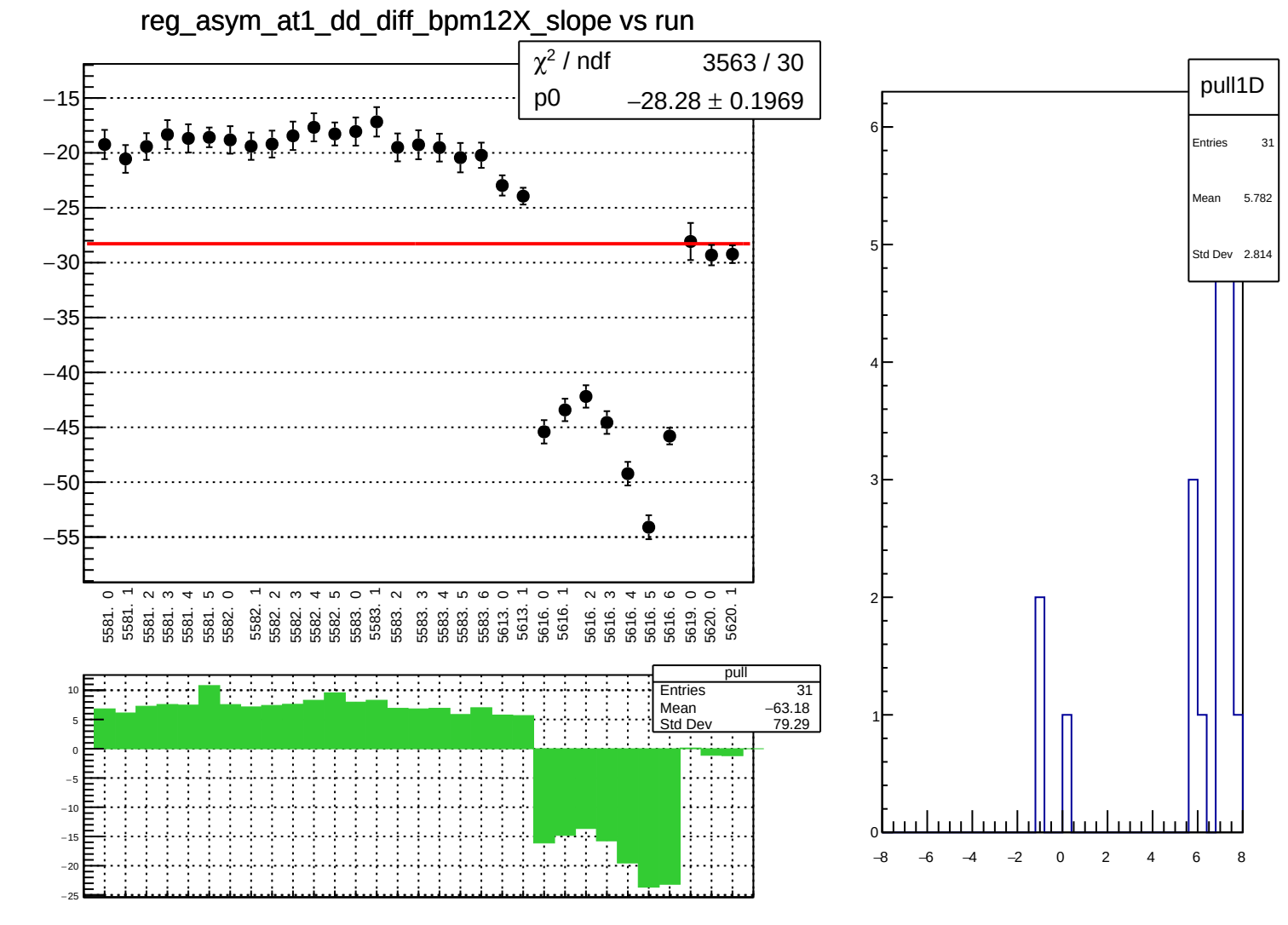

pull1D
Entries 31
Mean 0.08693
Std Dev 1.164
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

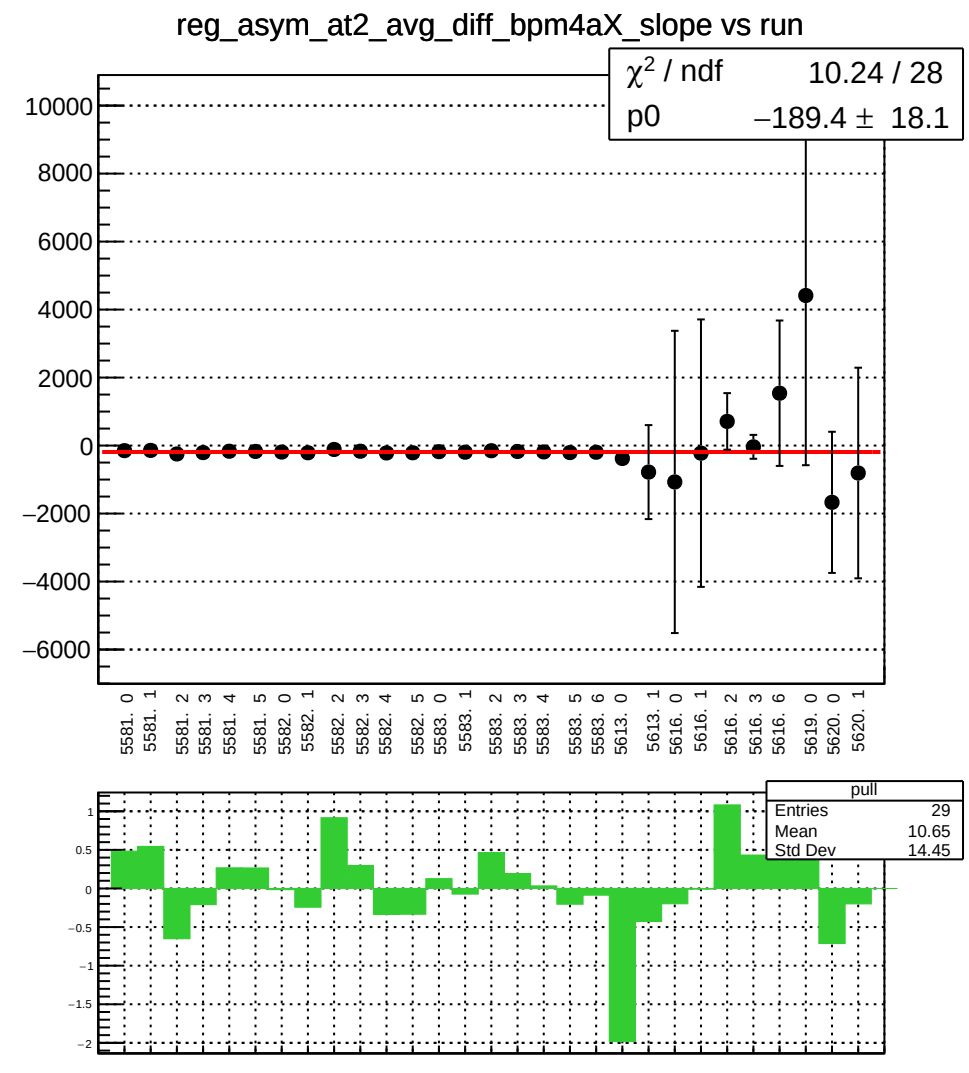

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 29.42 / 30
p0 −1.939 ± 4.343
150
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 101.1
Std Dev 84.92
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 31
Mean 0.03705
Std Dev 0.9735
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

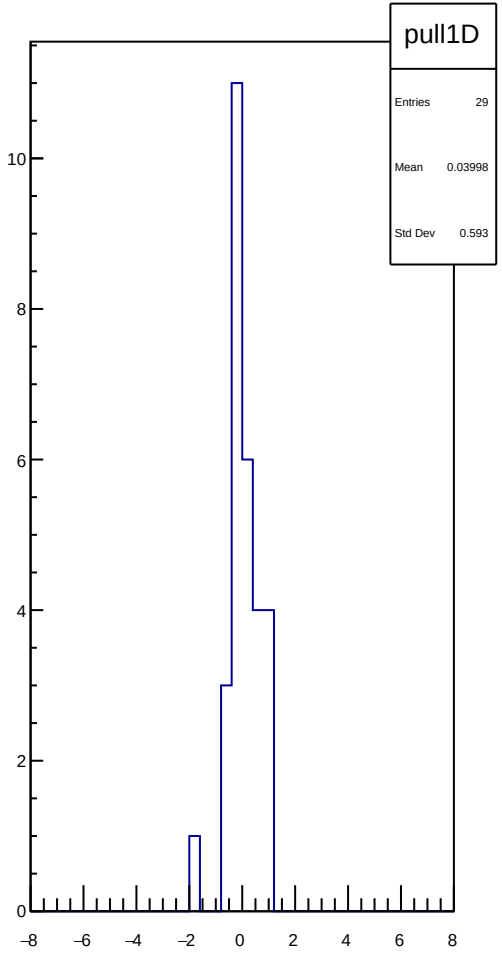

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 39.55 / 30
p0 55.31 ± 7.47
200
150
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −23.58
Std Dev 44.25
4
3
2
1
0
−1
−2
pull1D
Entries 31
Mean −0.06918
Std Dev 1.127
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

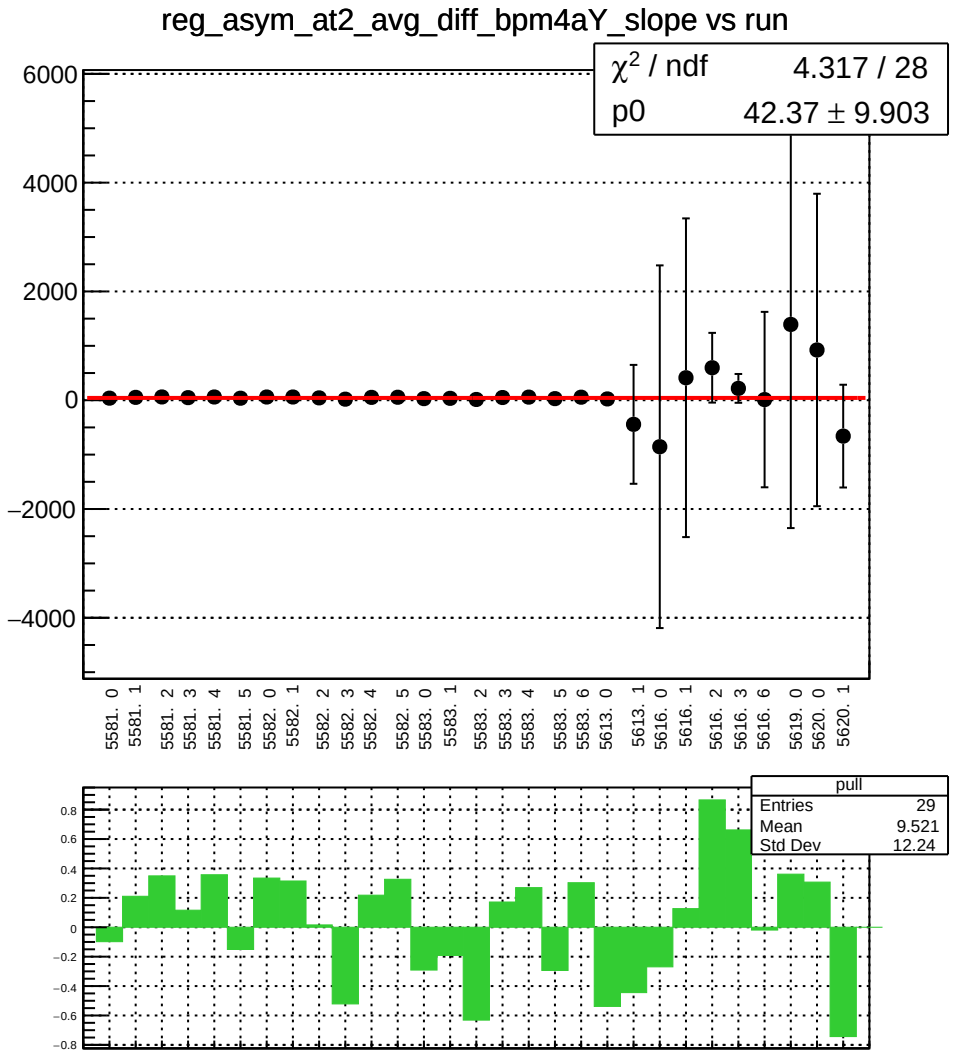

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 32.3 / 30
p0 10.59 ± 5.726
100
50
0
−50
−100
−150
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 143.8
Std Dev 128.5
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

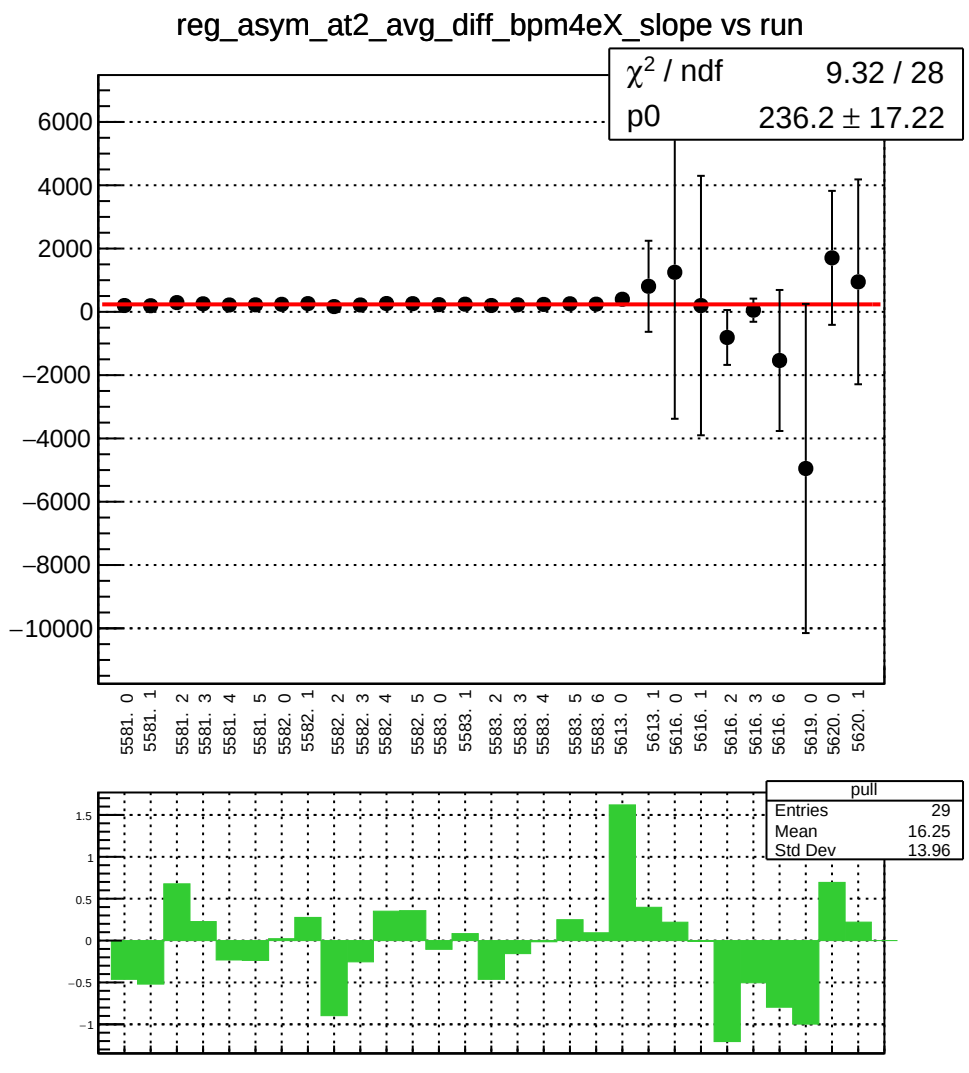

pull1D
Entries 31
Mean −0.01855
Std Dev 1.021
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

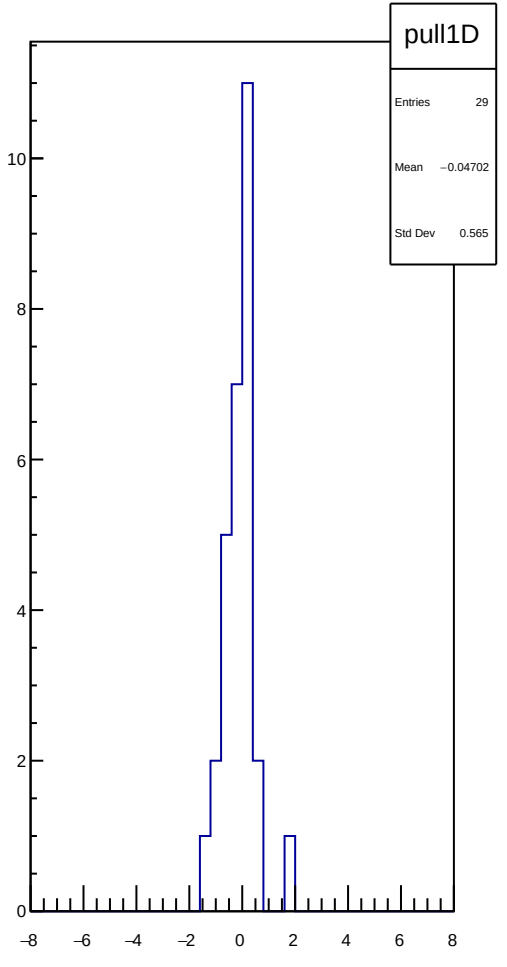

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 3563 / 30
p0 −28.28 ± 0.1969
pull
Entries 31
Mean −63.18
Std Dev 79.29
pull1D
Entries 31
Mean 5.782
Std Dev 2.814

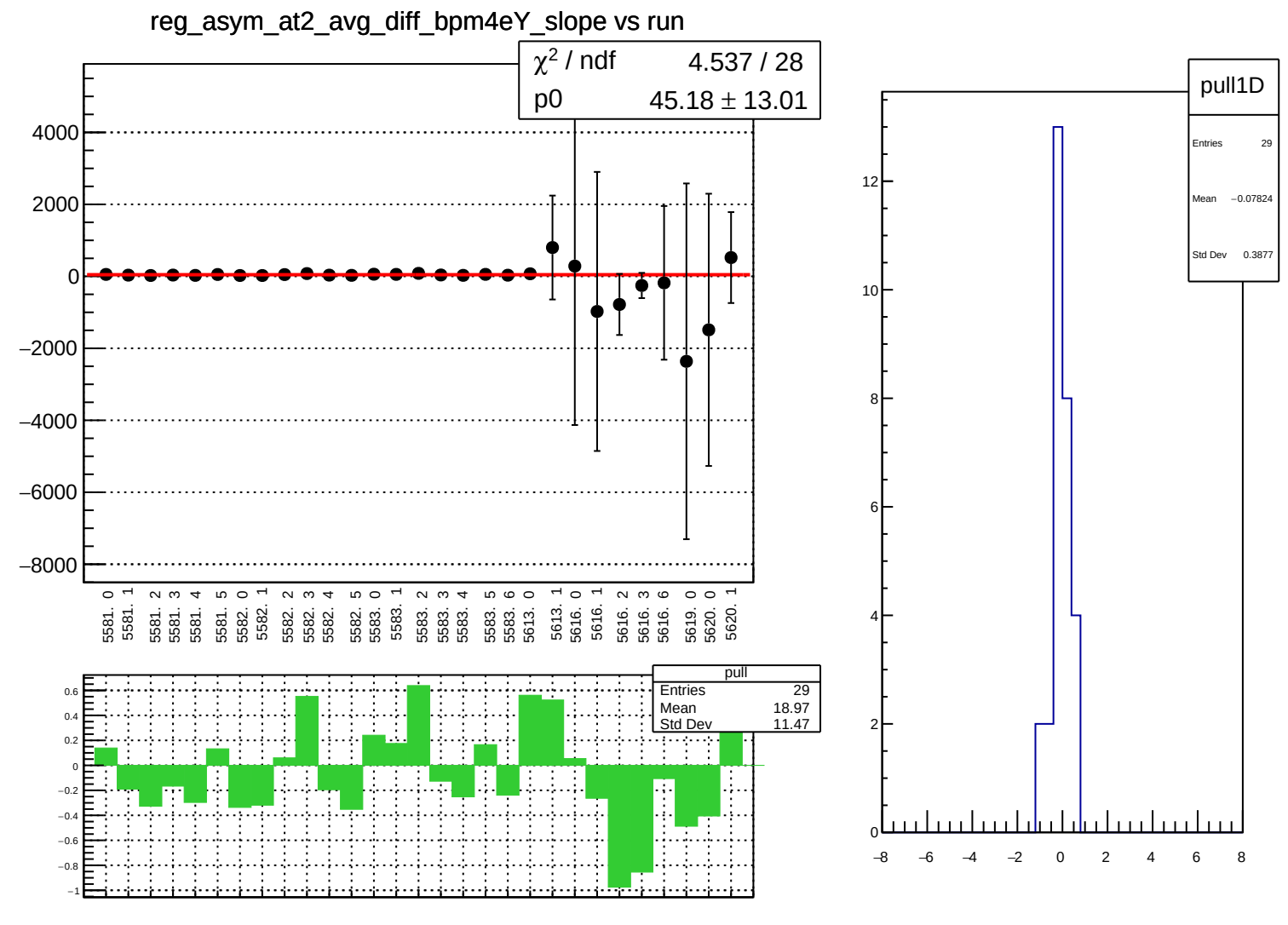

reg_asym_at2_avg_diff_bpm4aX_slope vs run
χ² / ndf 10.24 / 28
p0 −189.4 ± 18.1
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 29
Mean 10.65
Std Dev 14.45
1
0.5
0
−0.5
−1
−1.5
−2

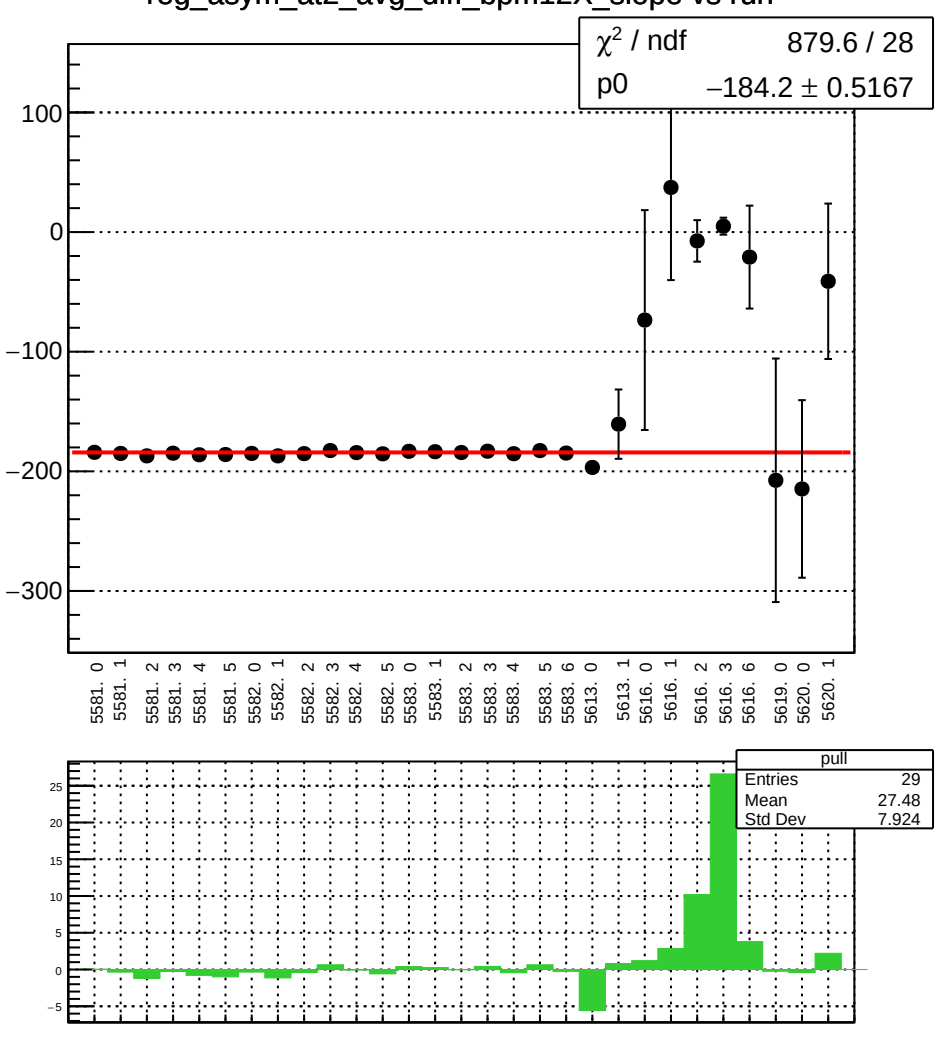

pull1D
Entries 29
Mean 0.03998
Std Dev 0.593
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

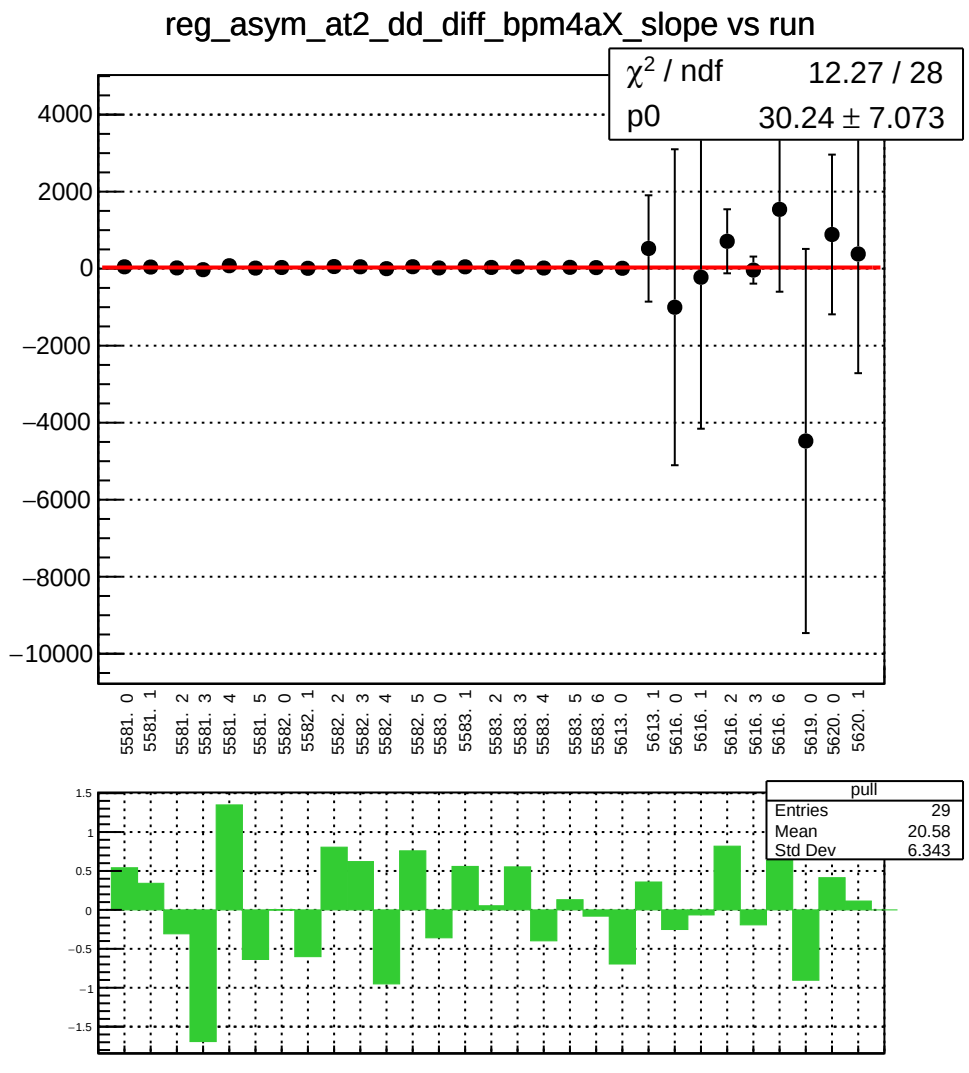

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.317 / 28
p0 42.37 ± 9.903
6000
4000
2000
0
−2000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 29
Mean 9.521
Std Dev 12.24
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 29
Mean 0.03847
Std Dev 0.3839
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

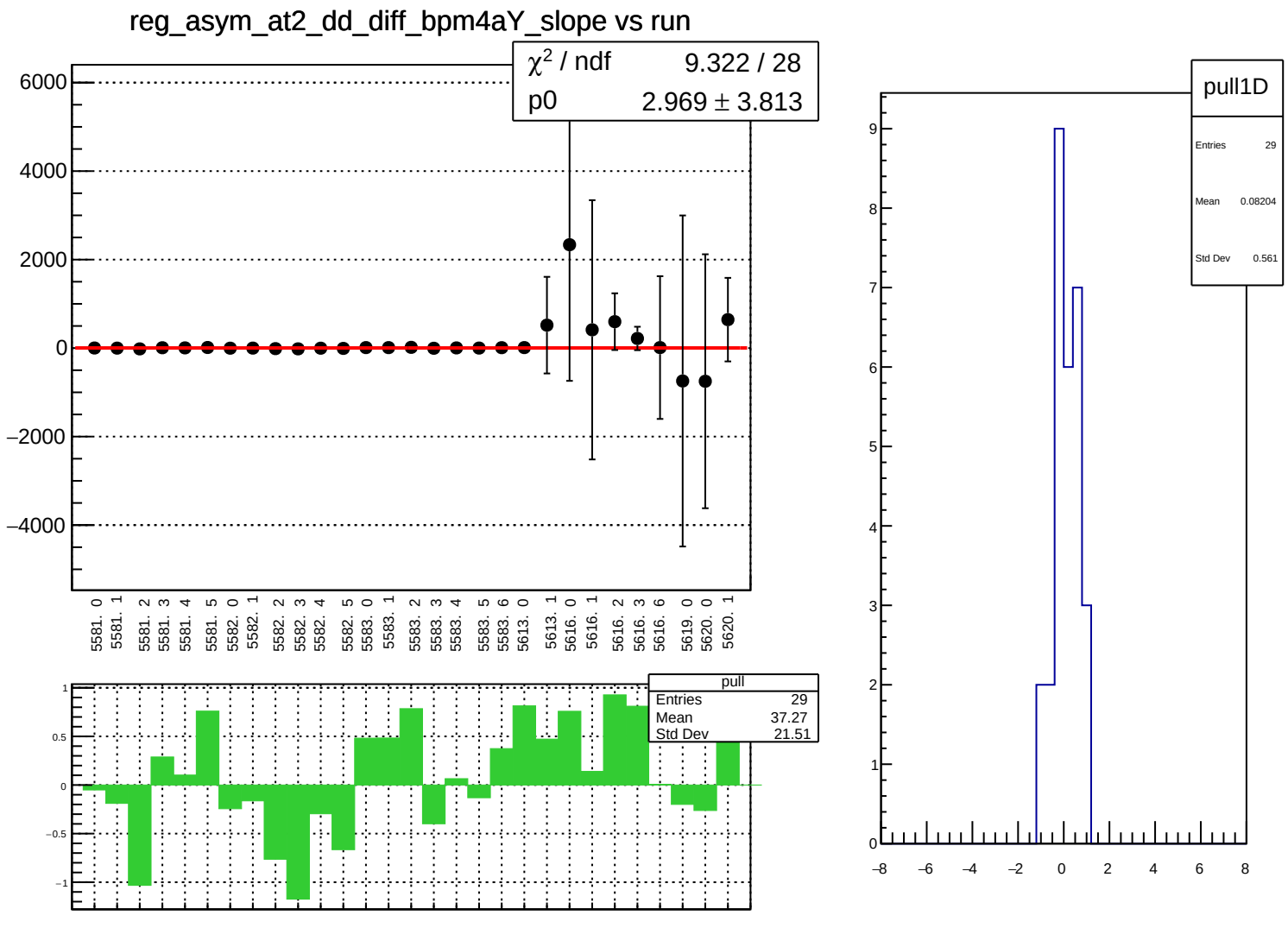

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.32 / 28
p0 236.2 ± 17.22
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 29
Mean 16.25
Std Dev 13.96
1.5
1
0.5
0
−0.5
−1

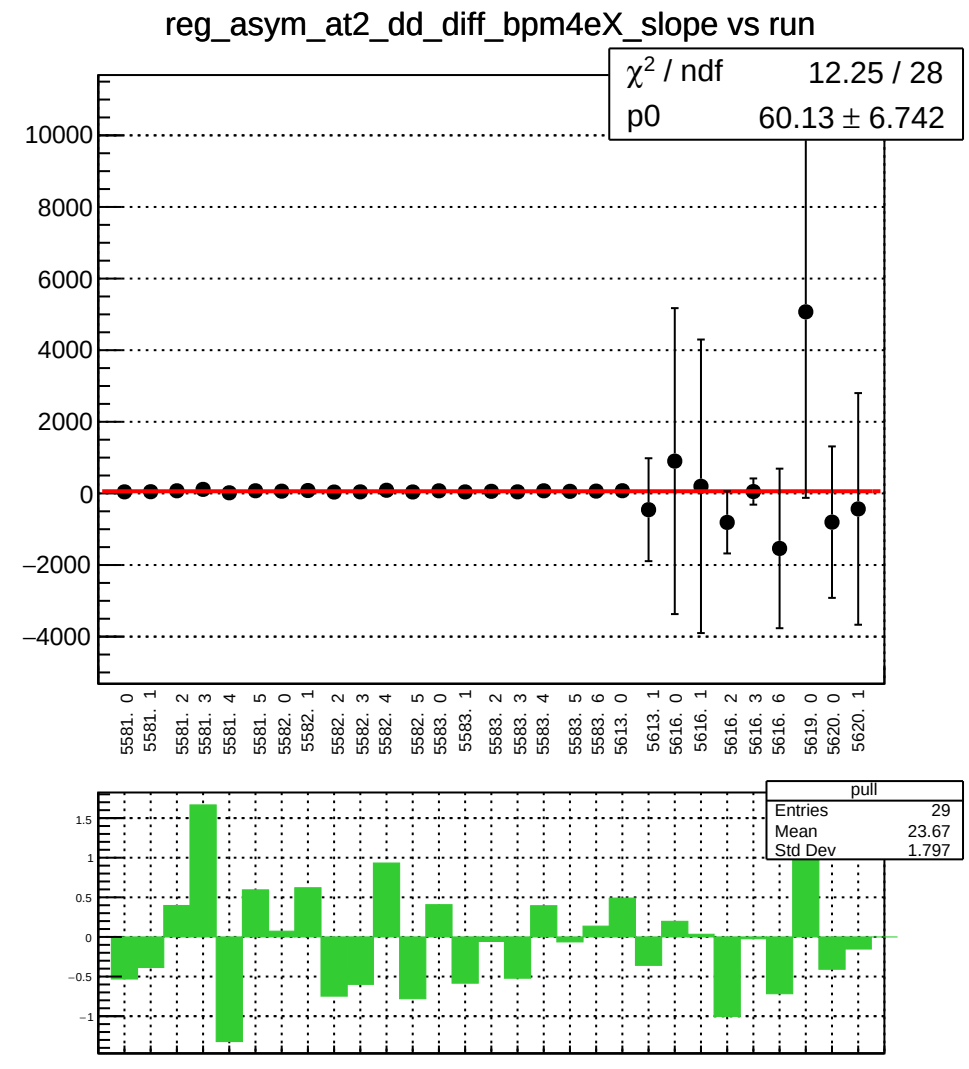

pull1D
Entries 29
Mean −0.04702
Std Dev 0.565
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

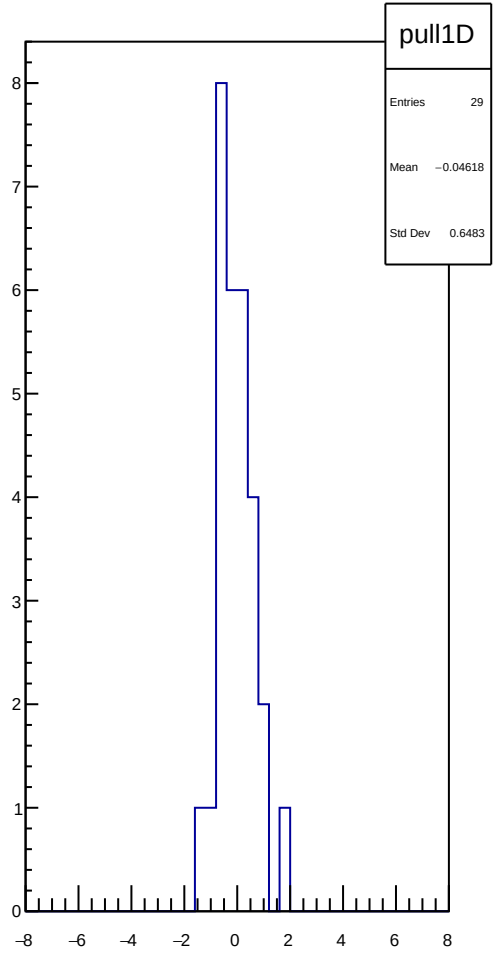

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.537 / 28
p0 45.18 ± 13.01
4000
2000
0
−2000
−4000
−6000
−8000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 29
Mean 18.97
Std Dev 11.47
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 29
Mean −0.07824
Std Dev 0.3877
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

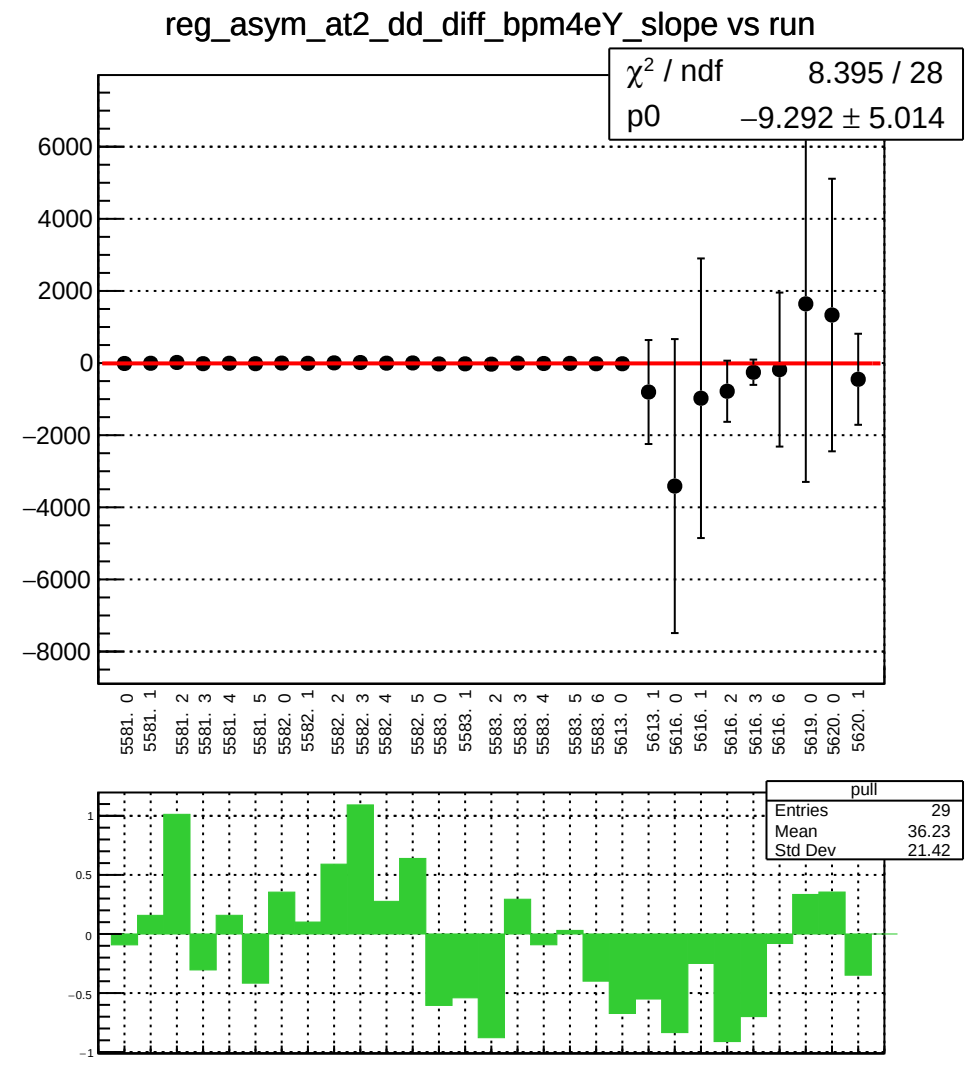

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 879.6 / 28
p0 −184.2 ± 0.5167
100
0
−100
−200
−300
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 29
Mean 27.48
Std Dev 7.924
25
20
15
10
5
0
−5
pull1D
Entries 29
Mean 0.007642
Std Dev 1.583
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

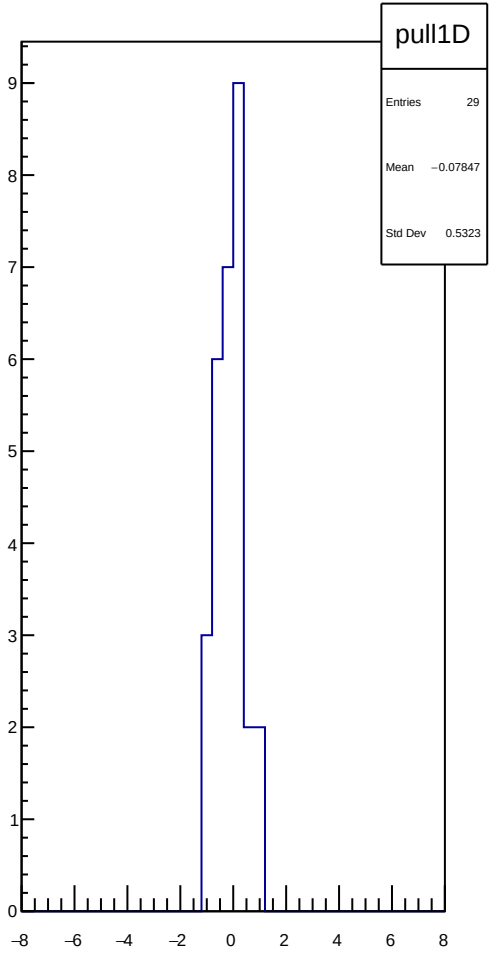

reg_asym_at2_dd_diff_bpm4aX_slope vs run
χ² / ndf 12.27 / 28
p0 30.24 ± 7.073
4000
2000
0
−2000
−4000
−6000
−8000
−10000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 29
Mean 20.58
Std Dev 6.343
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 29
Mean 0.03421
Std Dev 0.6496
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

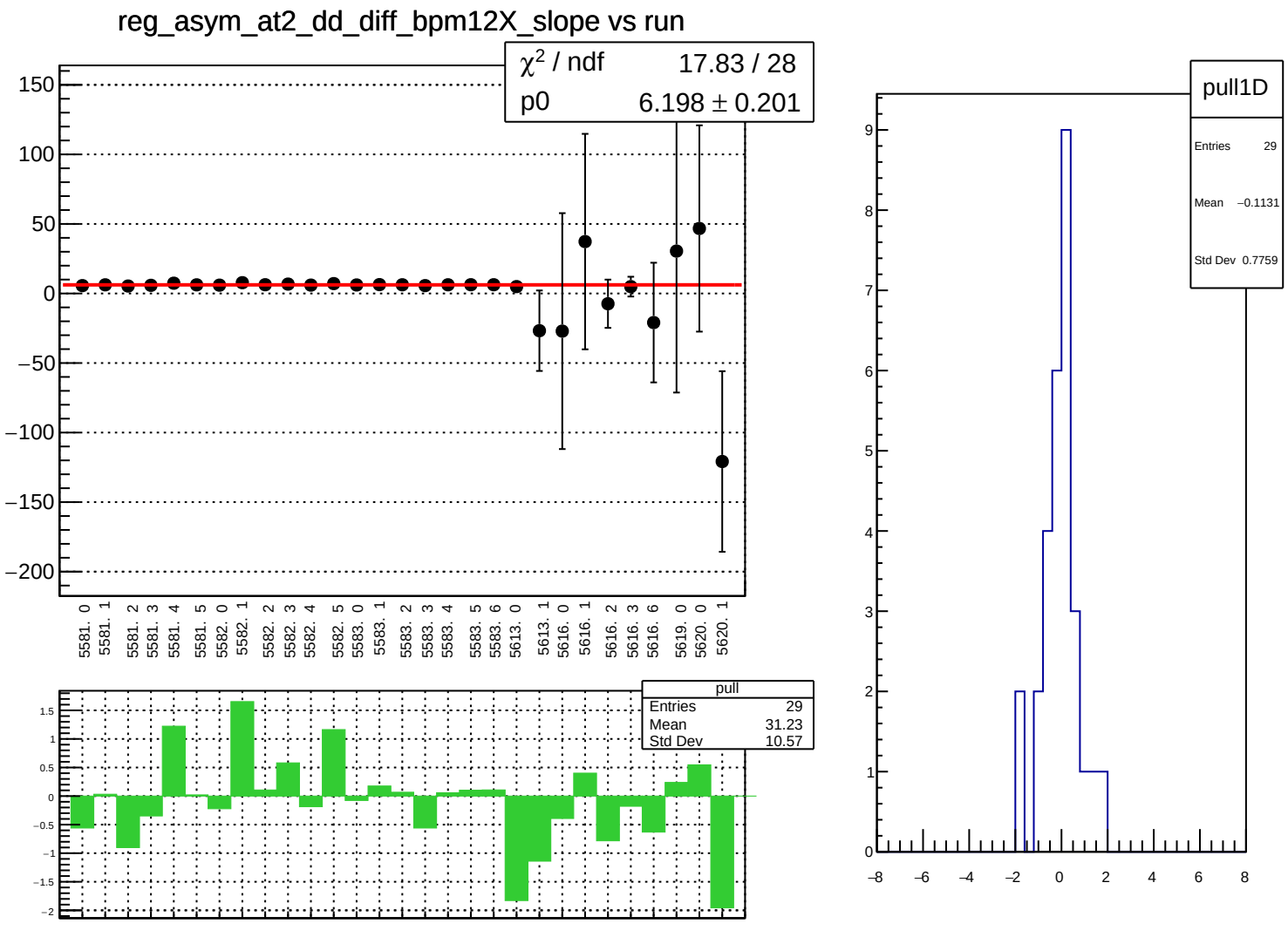

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.322 / 28
p0 2.969 ± 3.813
6000
4000
2000
0
−2000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 29
Mean 37.27
Std Dev 21.51
1
0.5
0
−0.5
−1
pull1D
Entries 29
Mean 0.08204
Std Dev 0.561
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

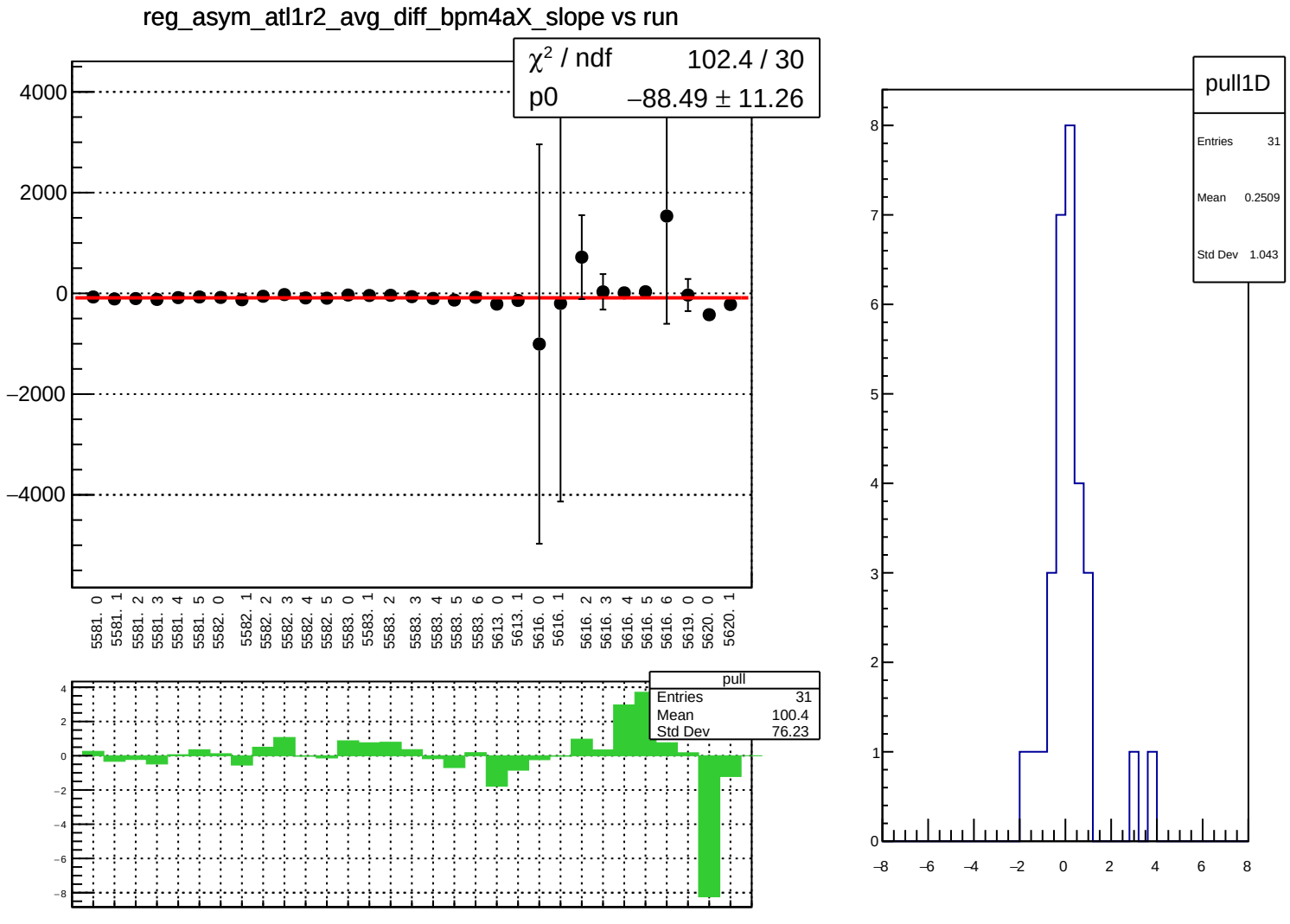

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 12.25 / 28
p0 60.13 ± 6.742
10000
8000
6000
4000
2000
0
−2000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 29
Mean 23.67
Std Dev 1.797
1.5
1
0.5
0
−0.5
−1

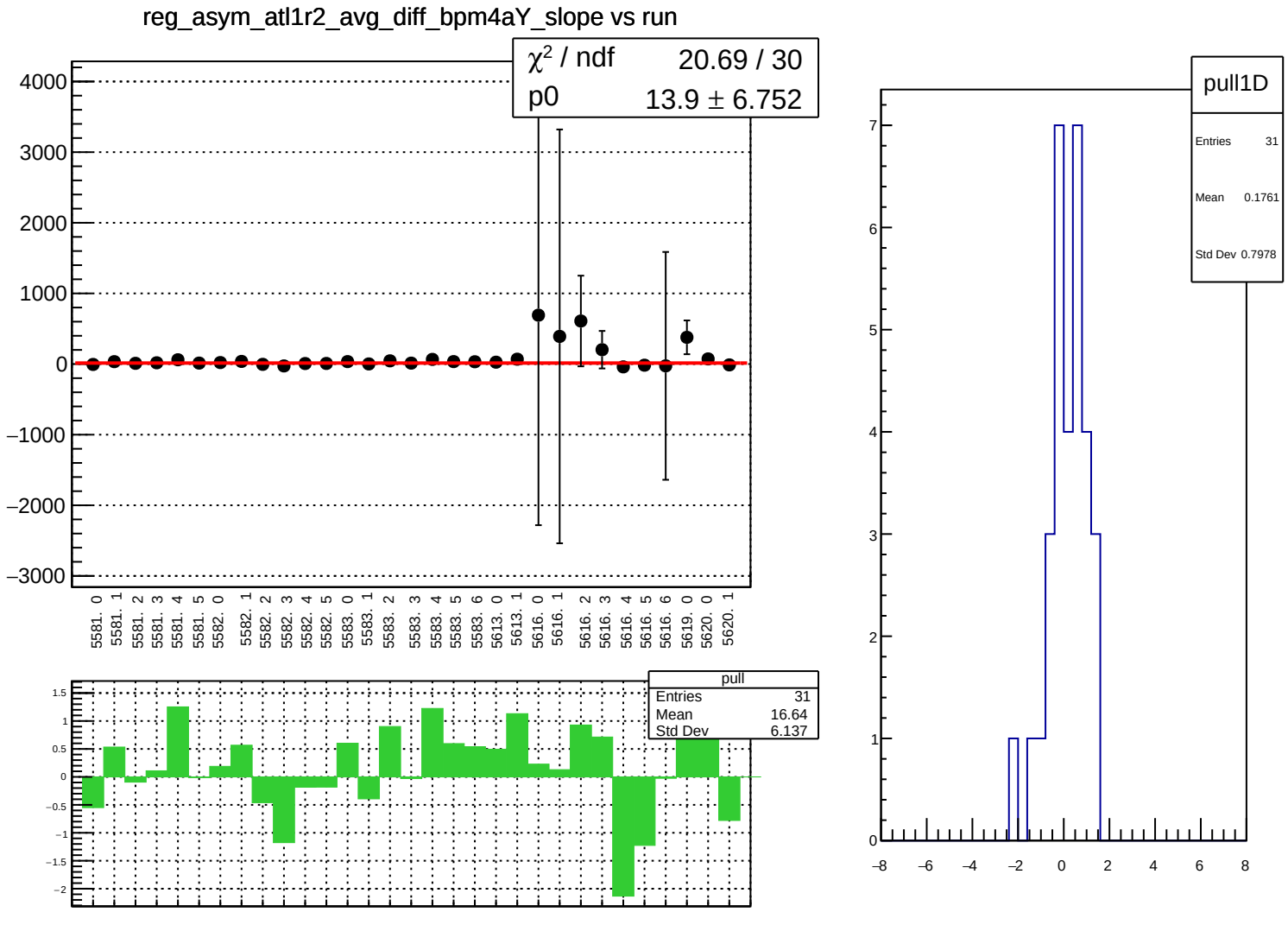

pull1D
Entries 29
Mean −0.04618
Std Dev 0.6483
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

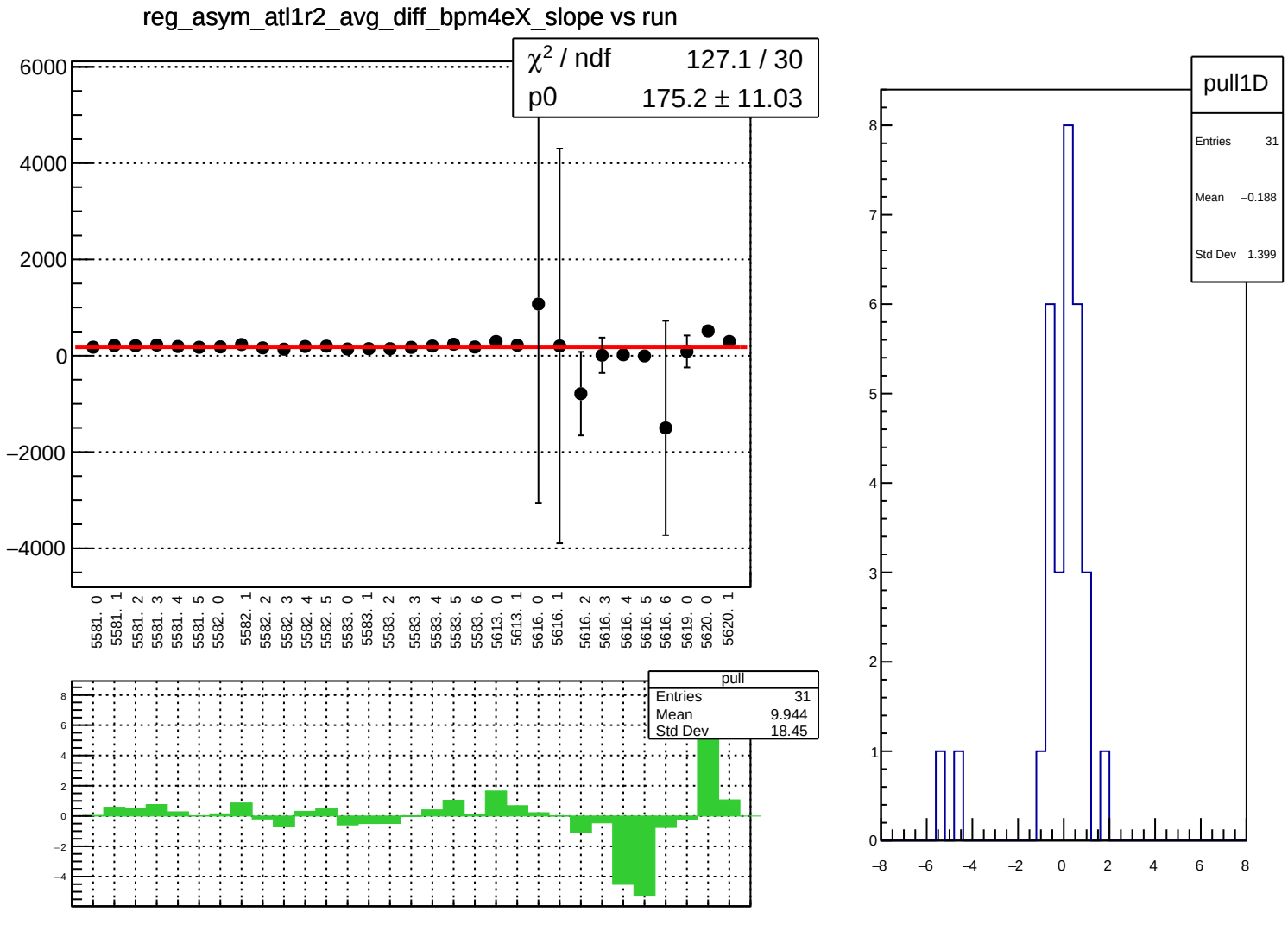

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.395 / 28
p0 −9.292 ± 5.014
6000
4000
2000
0
−2000
−4000
−6000
−8000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 29
Mean 36.23
Std Dev 21.42
1
0.5
0
−0.5
−1

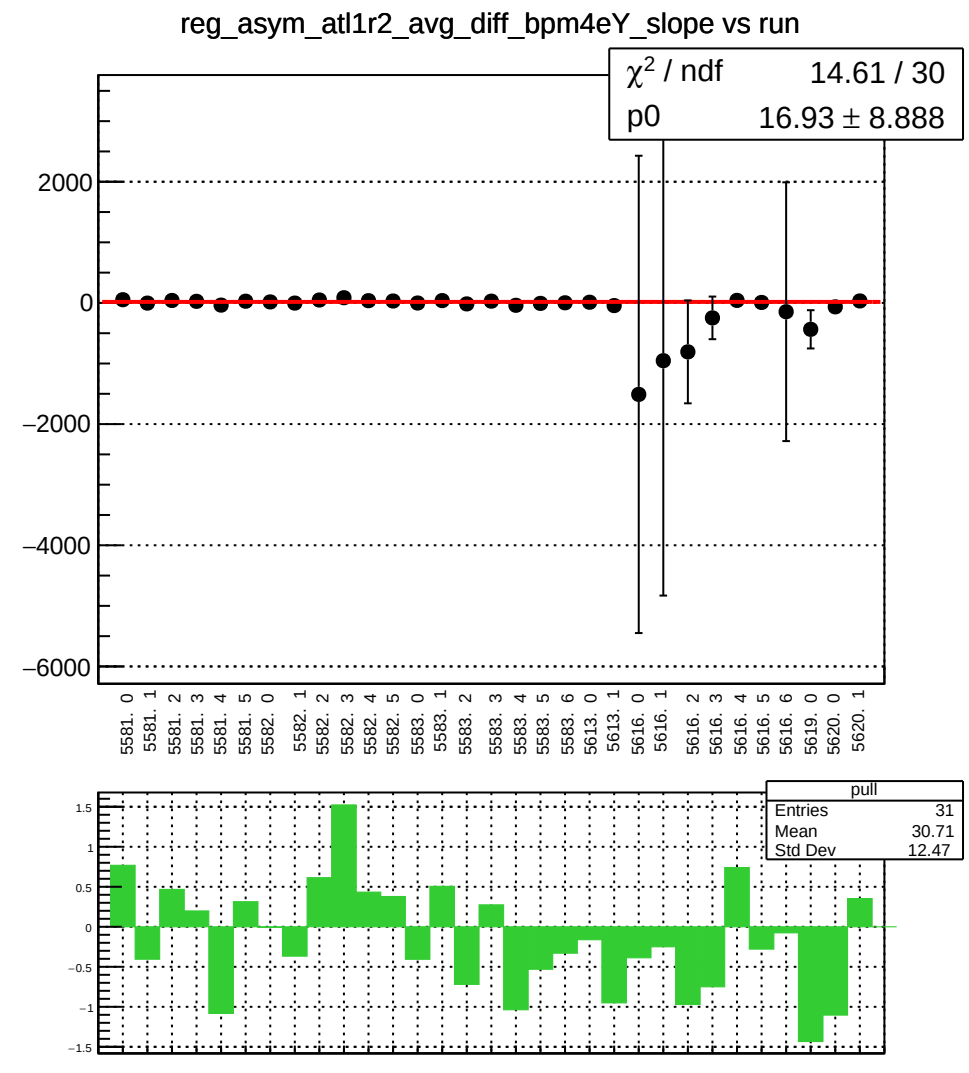

pull1D
Entries 29
Mean −0.07847
Std Dev 0.5323
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

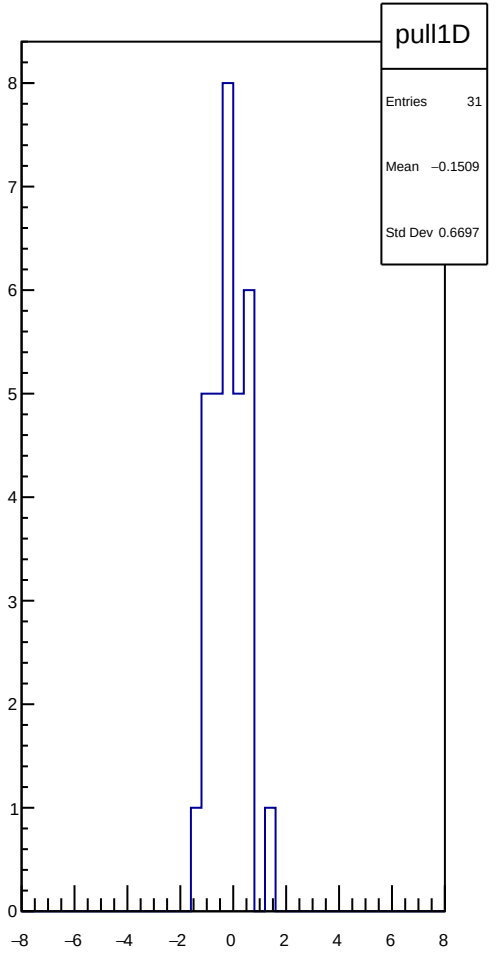

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 17.83 / 28
p0 6.198 ± 0.201
150
100
50
0
−50
−100
−150
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 29
Mean 31.23
Std Dev 10.57
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 29
Mean −0.1131
Std Dev 0.7759
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

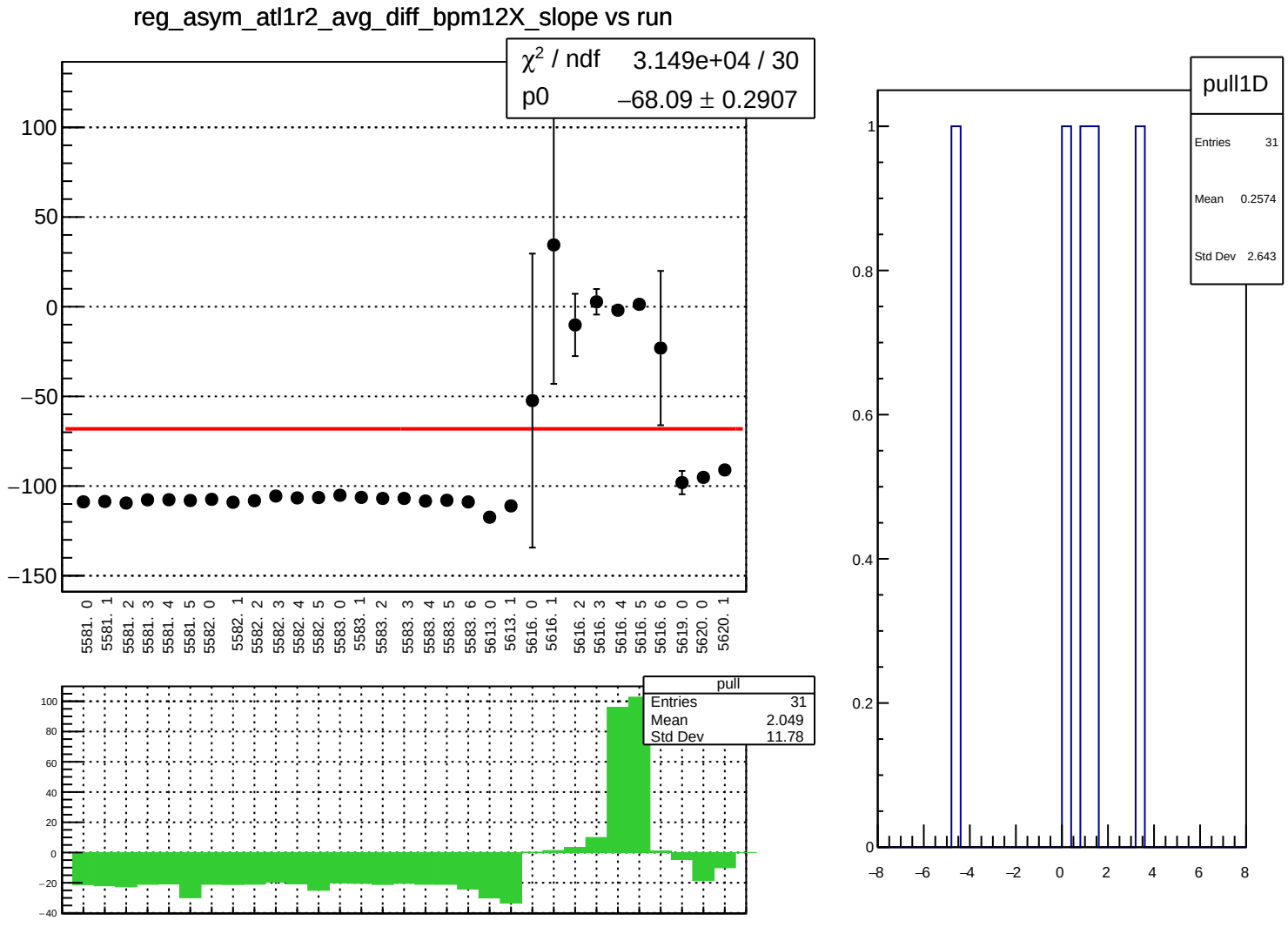

reg_asym_atl1r2_avg_diff_bpm4aX_slope vs run
χ² / ndf 102.4 / 30
p0 −88.49 ± 11.26
4000
2000
0
−2000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 100.4
Std Dev 76.23
pull1D
Entries 31
Mean 0.2509
Std Dev 1.043

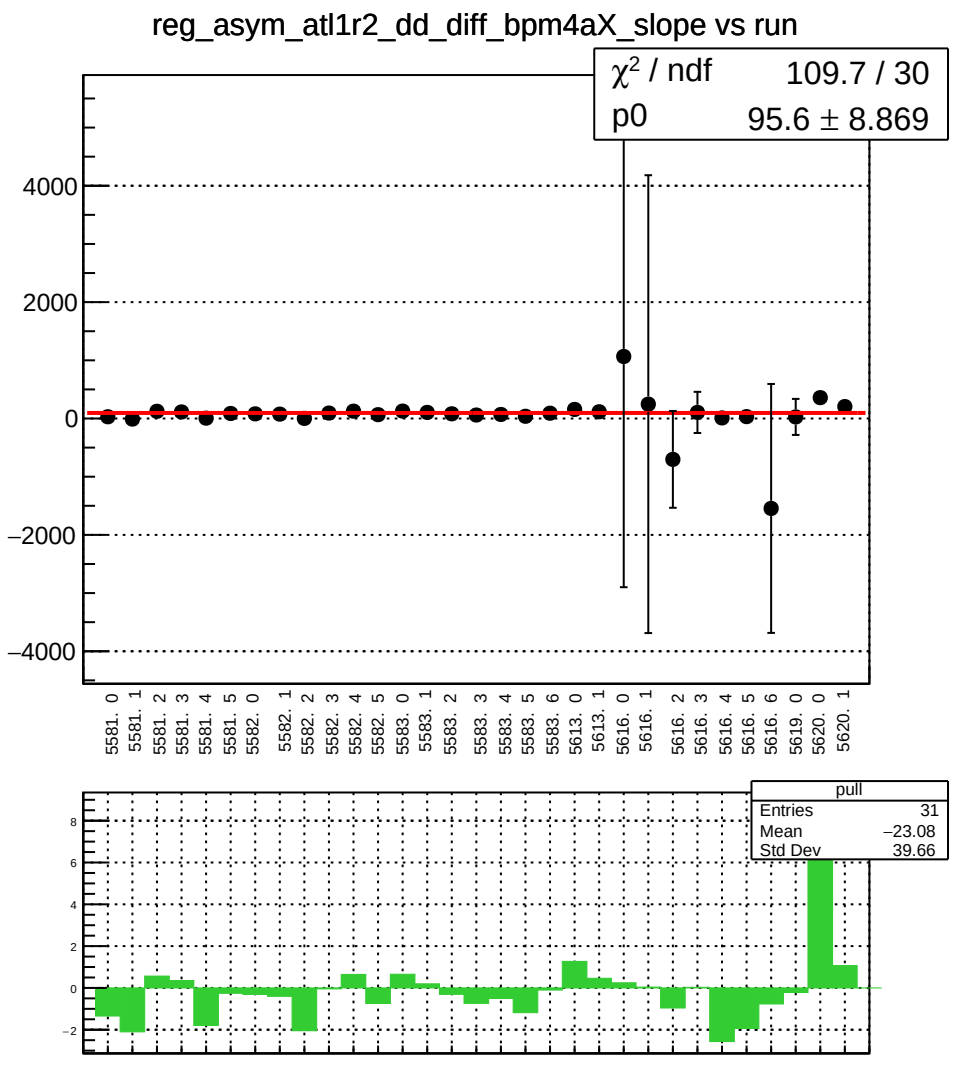

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 20.69 / 30
p0 13.9 ± 6.752
4000
3000
2000
1000
0
−1000
−2000
−3000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 16.64
Std Dev 6.137
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean 0.1761
Std Dev 0.7978
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

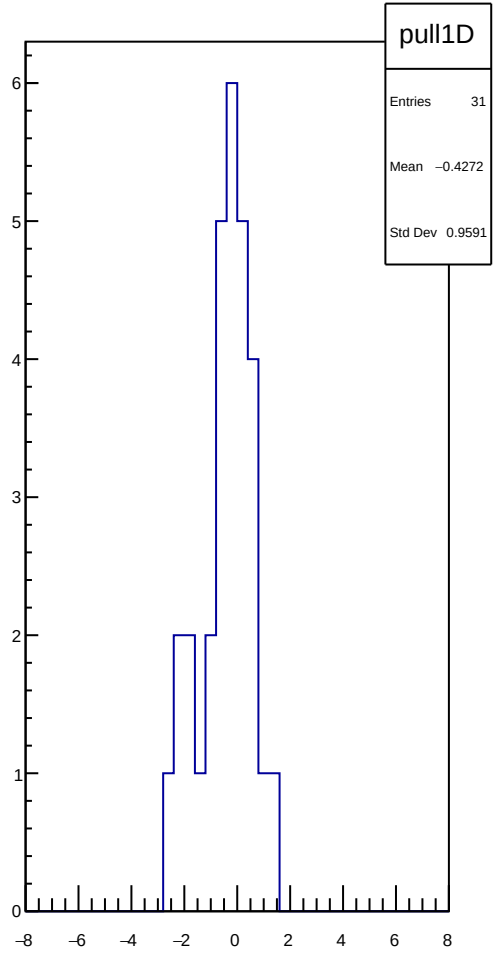

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 127.1 / 30
p0 175.2 ± 11.03
6000
4000
2000
0
−2000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 9.944
Std Dev 18.45
pull1D
Entries 31
Mean −0.188
Std Dev 1.399

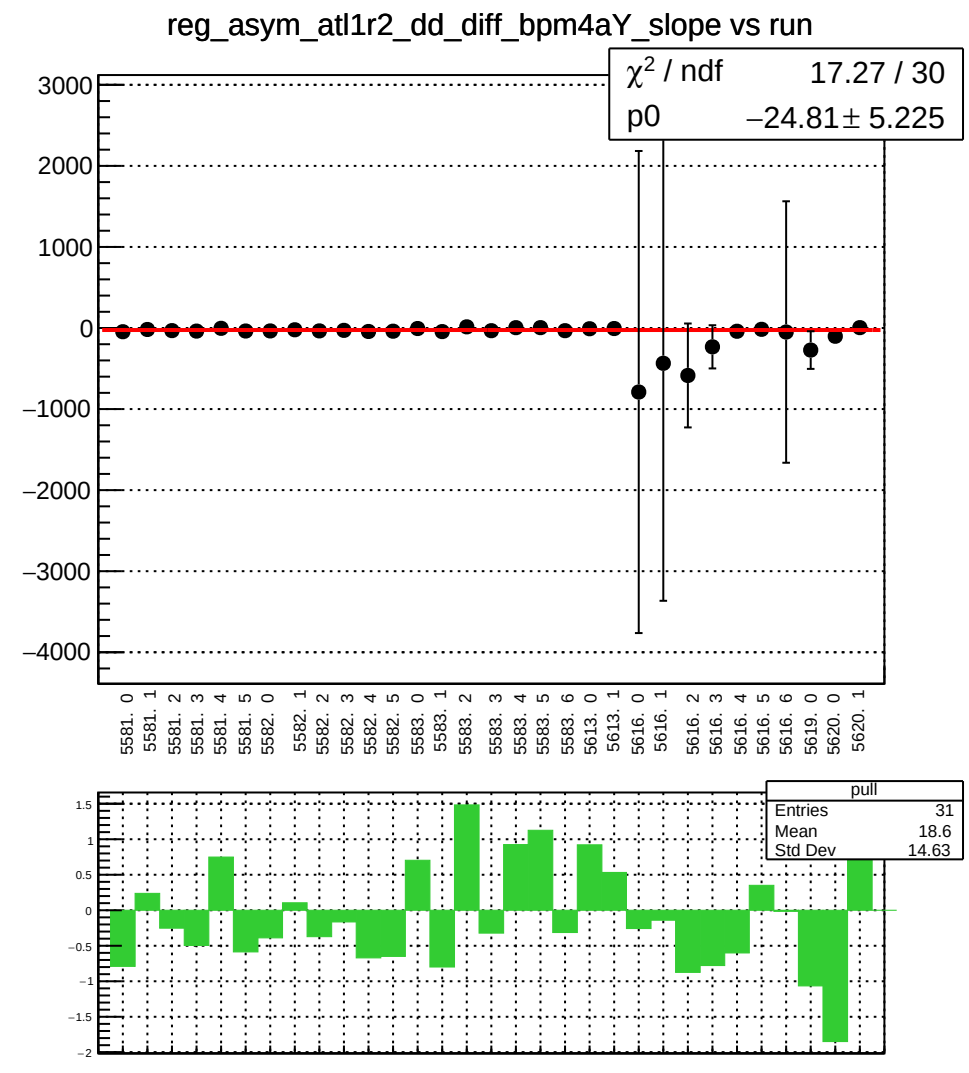

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 14.61 / 30
p0 16.93 ± 8.888
2000
0
−2000
−4000
−6000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 30.71
Std Dev 12.47
1.5
1
0.5
0
−0.5
−1
−1.5

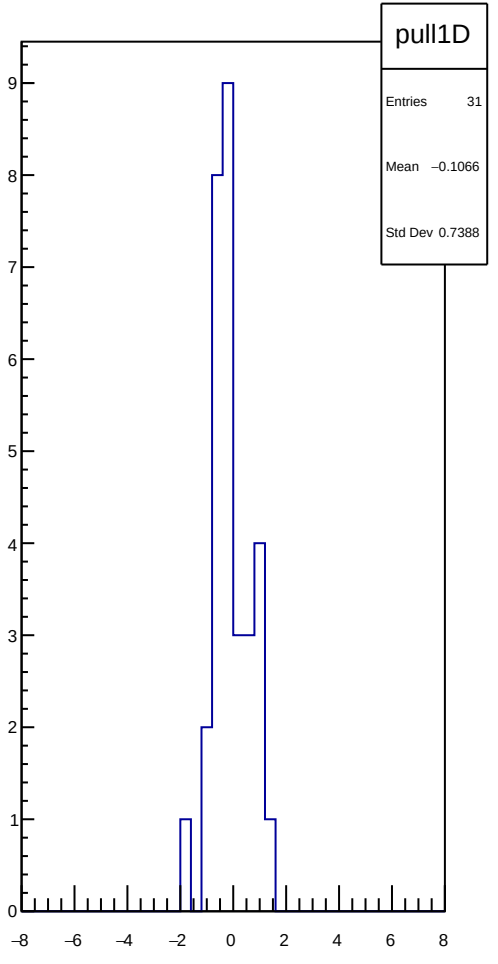

pull1D
Entries 31
Mean −0.1509
Std Dev 0.6697
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

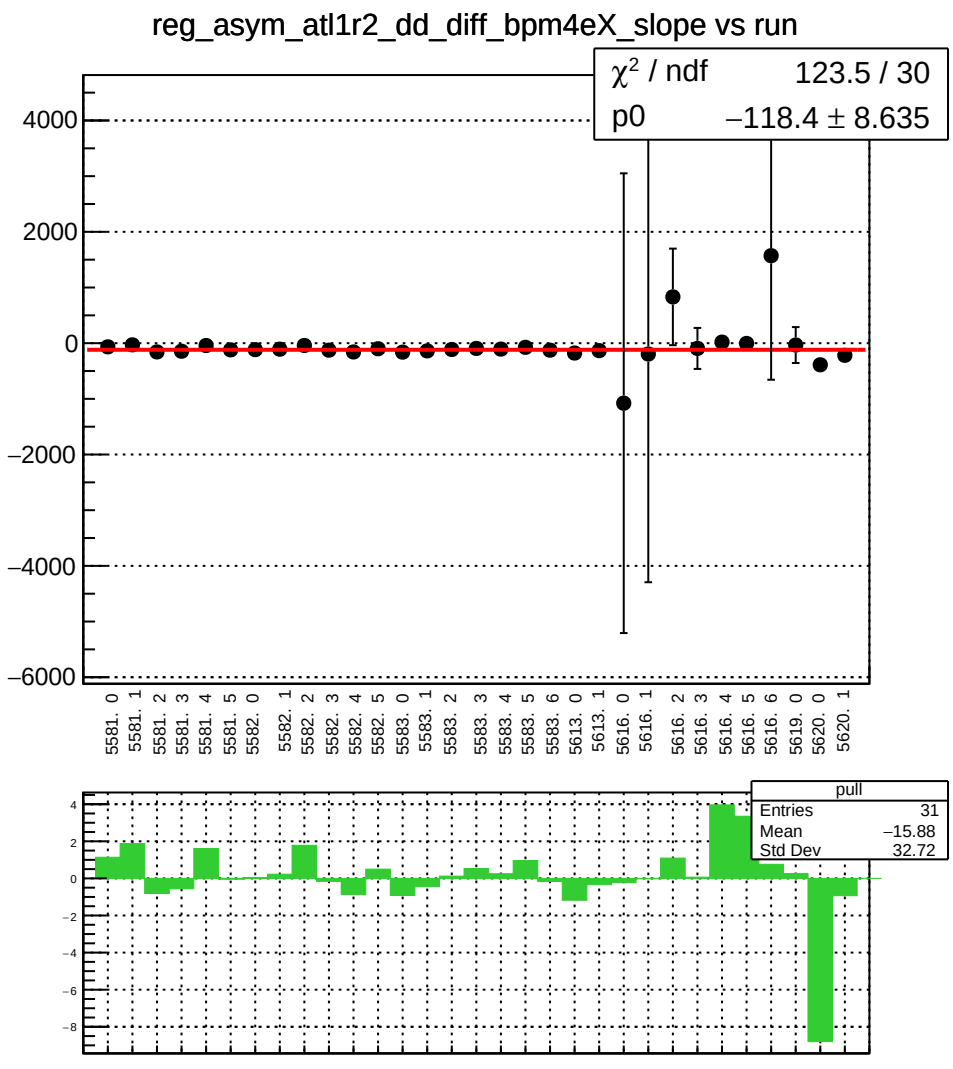

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 3.149e+04 / 30
p0 −68.09 ± 0.2907
100
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 2.049
Std Dev 11.78
100
80
60
40
20
0
−20
−40
pull1D
Entries 31
Mean 0.2574
Std Dev 2.643
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

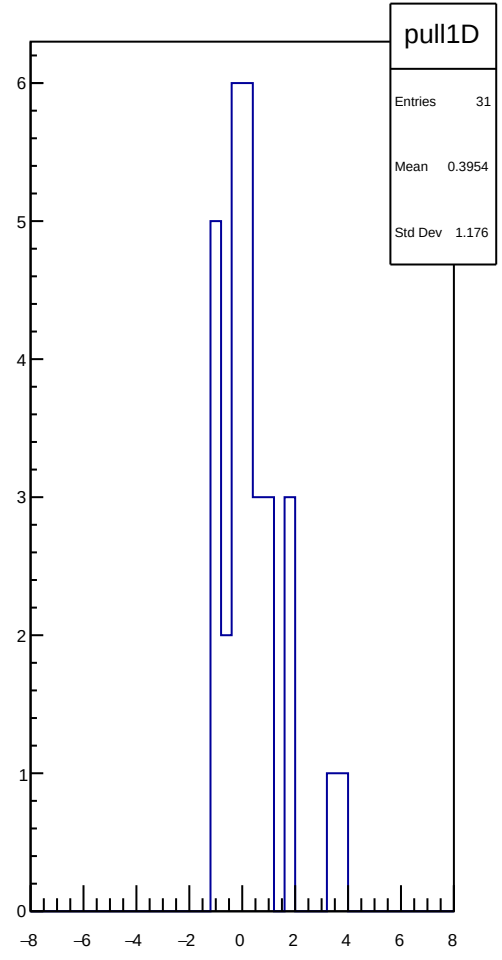

reg_asym_atl1r2_dd_diff_bpm4aX_slope vs run
χ² / ndf 109.7 / 30
p0 95.6 ± 8.869
4000
2000
0
−2000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −23.08
Std Dev 39.66
8
6
4
2
0
−2

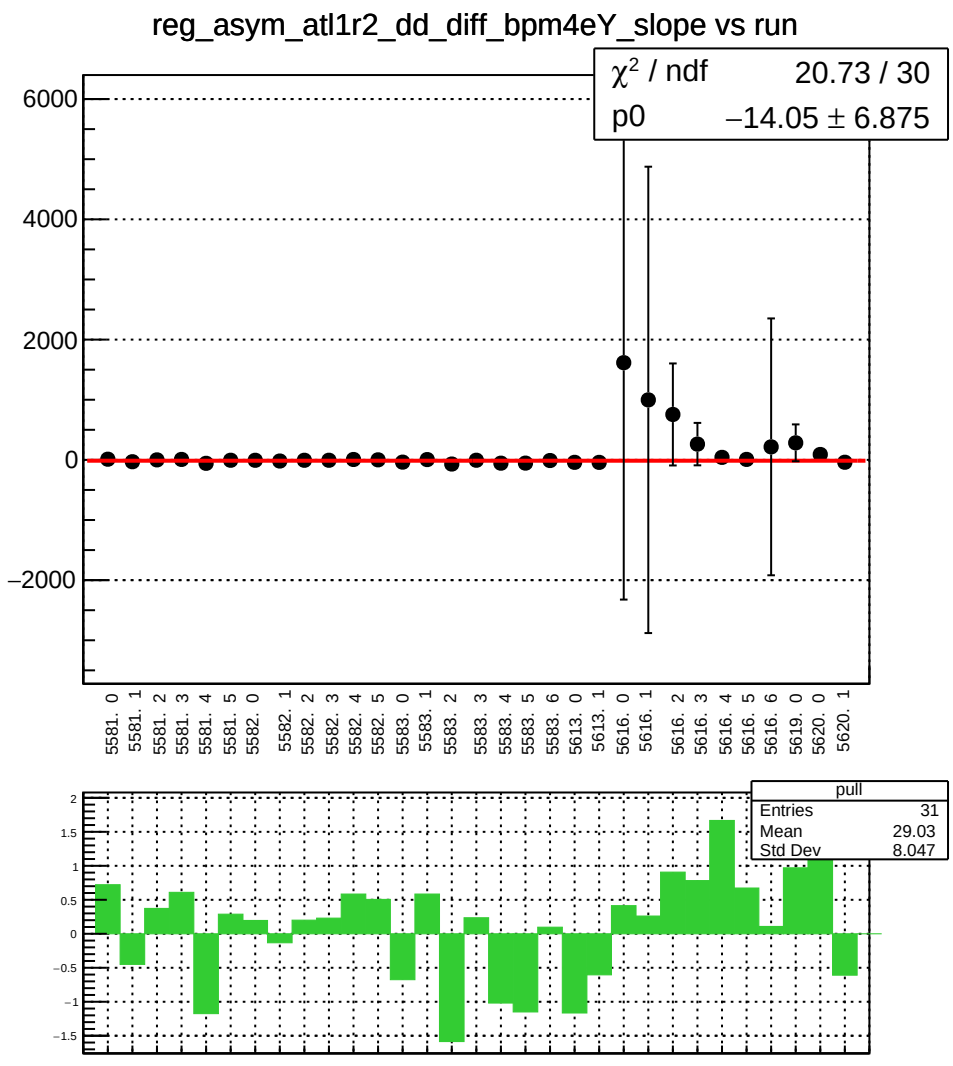

pull1D
Entries 31
Mean −0.4272
Std Dev 0.9591
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

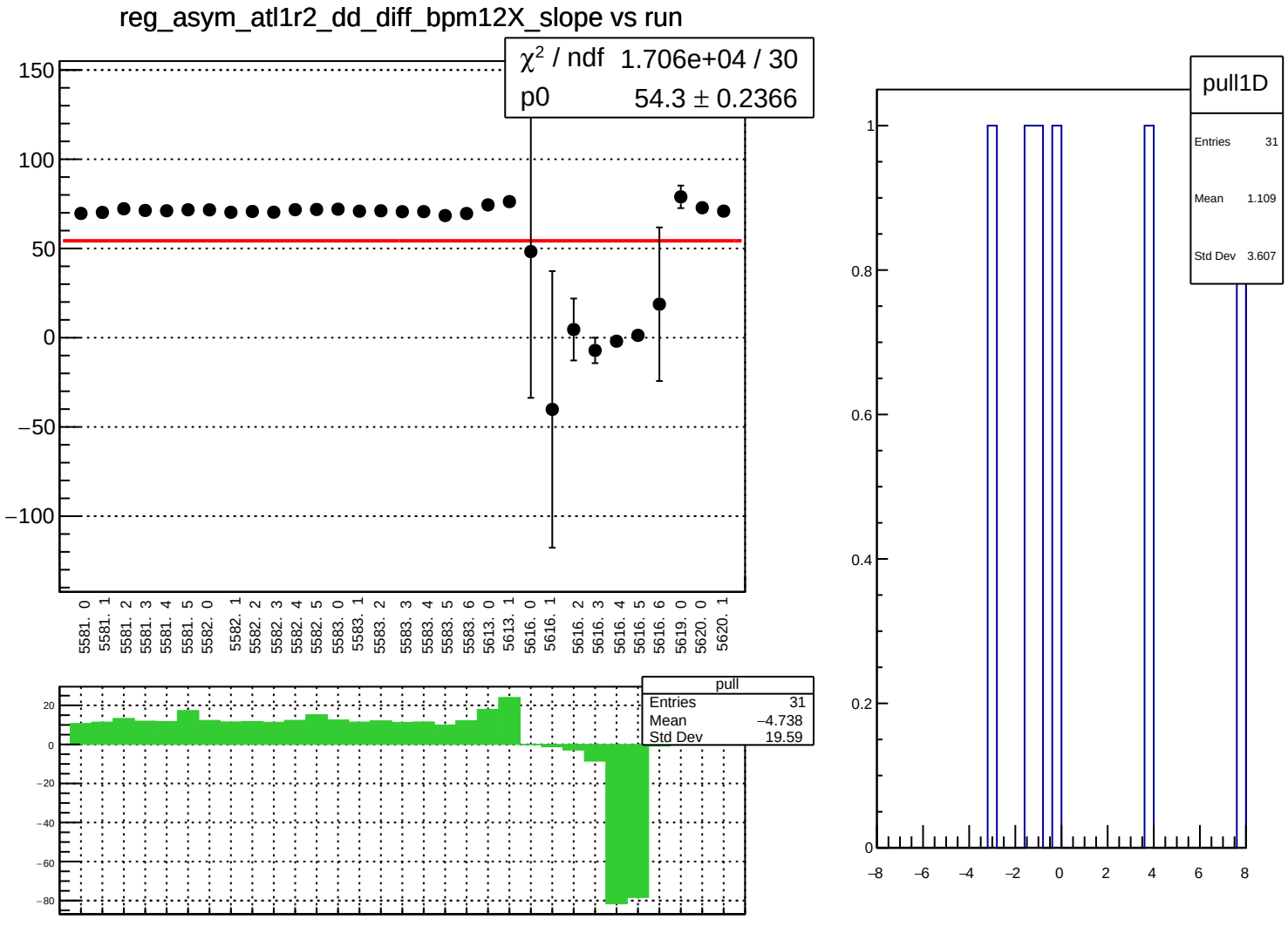

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 17.27 / 30
p0 −24.81 ± 5.225
3000
2000
1000
0
−1000
−2000
−3000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 18.6
Std Dev 14.63
1.5
1
0.5
0
−0.5
−1
−1.5
−2

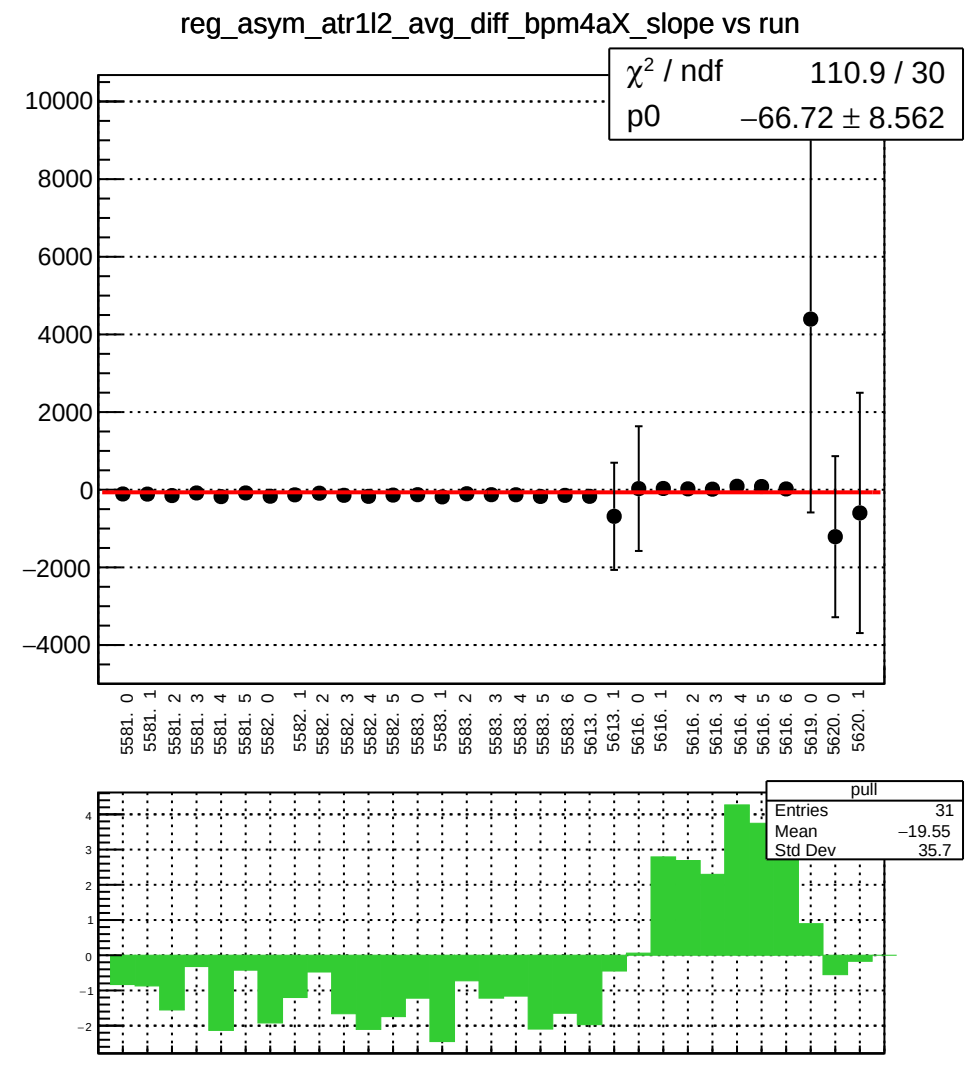

pull1D
Entries 31
Mean −0.1066
Std Dev 0.7388
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

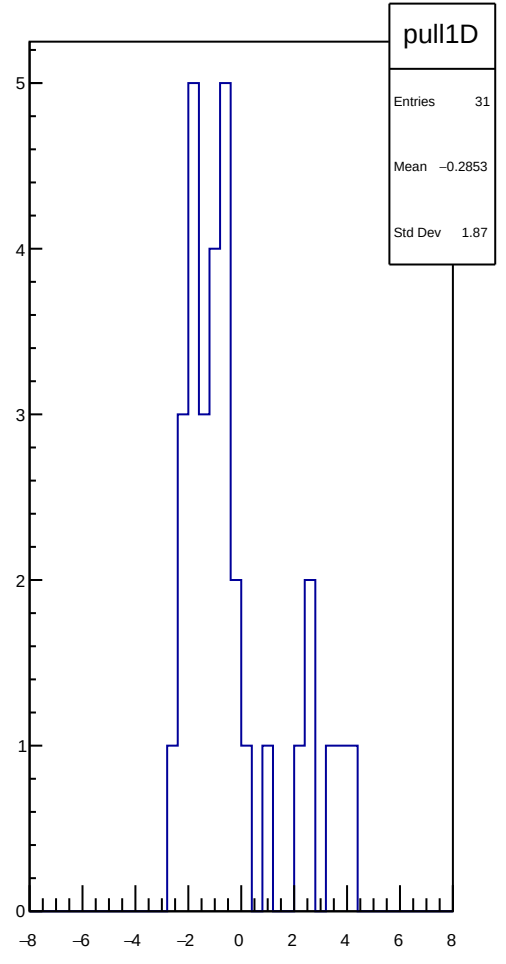

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 123.5 / 30
p0 −118.4 ± 8.635
4000
2000
0
−2000
−4000
−6000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −15.88
Std Dev 32.72
4
2
0
−2
−4
−6
−8

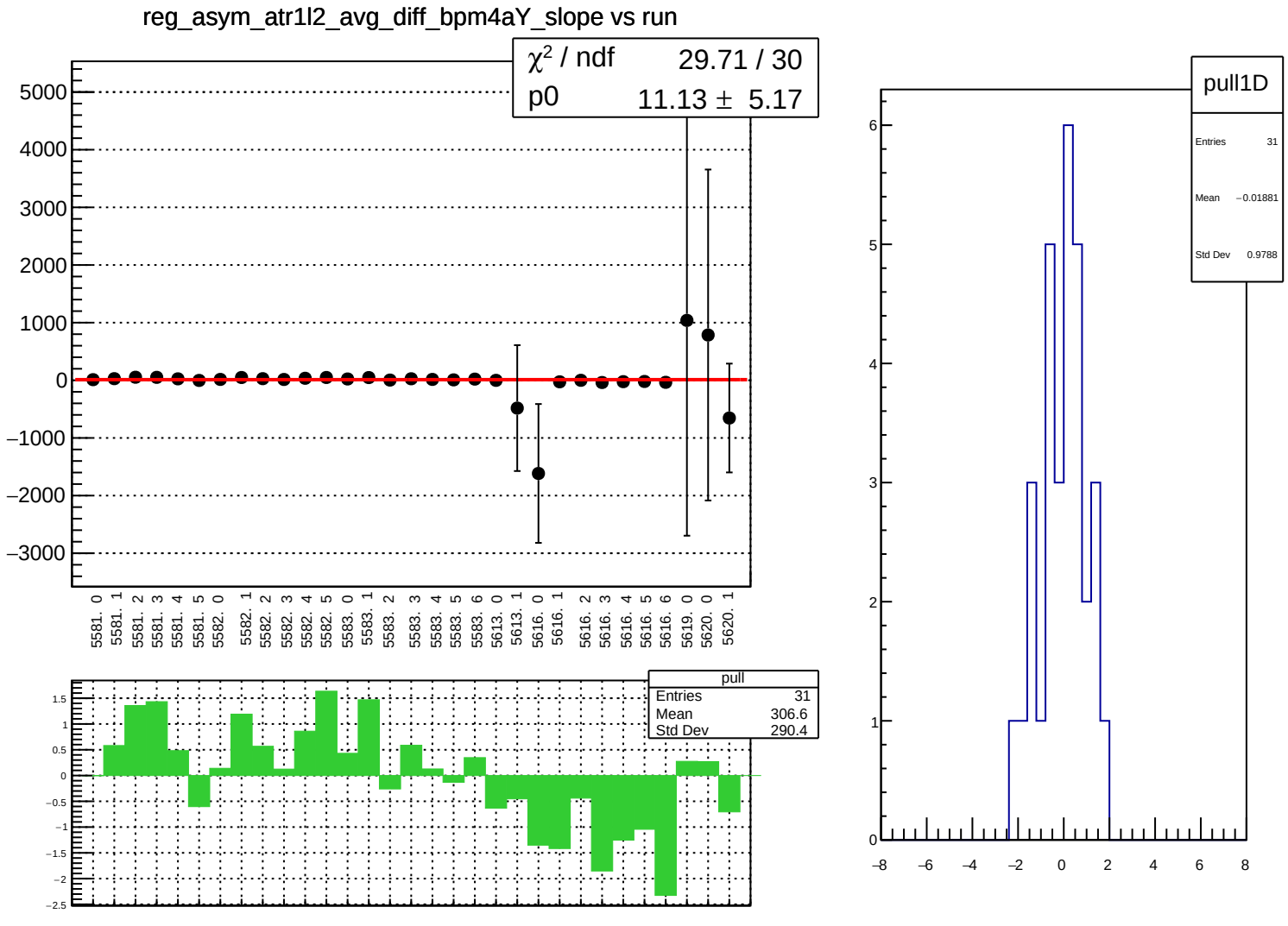

pull1D
Entries 31
Mean 0.3954
Std Dev 1.176
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

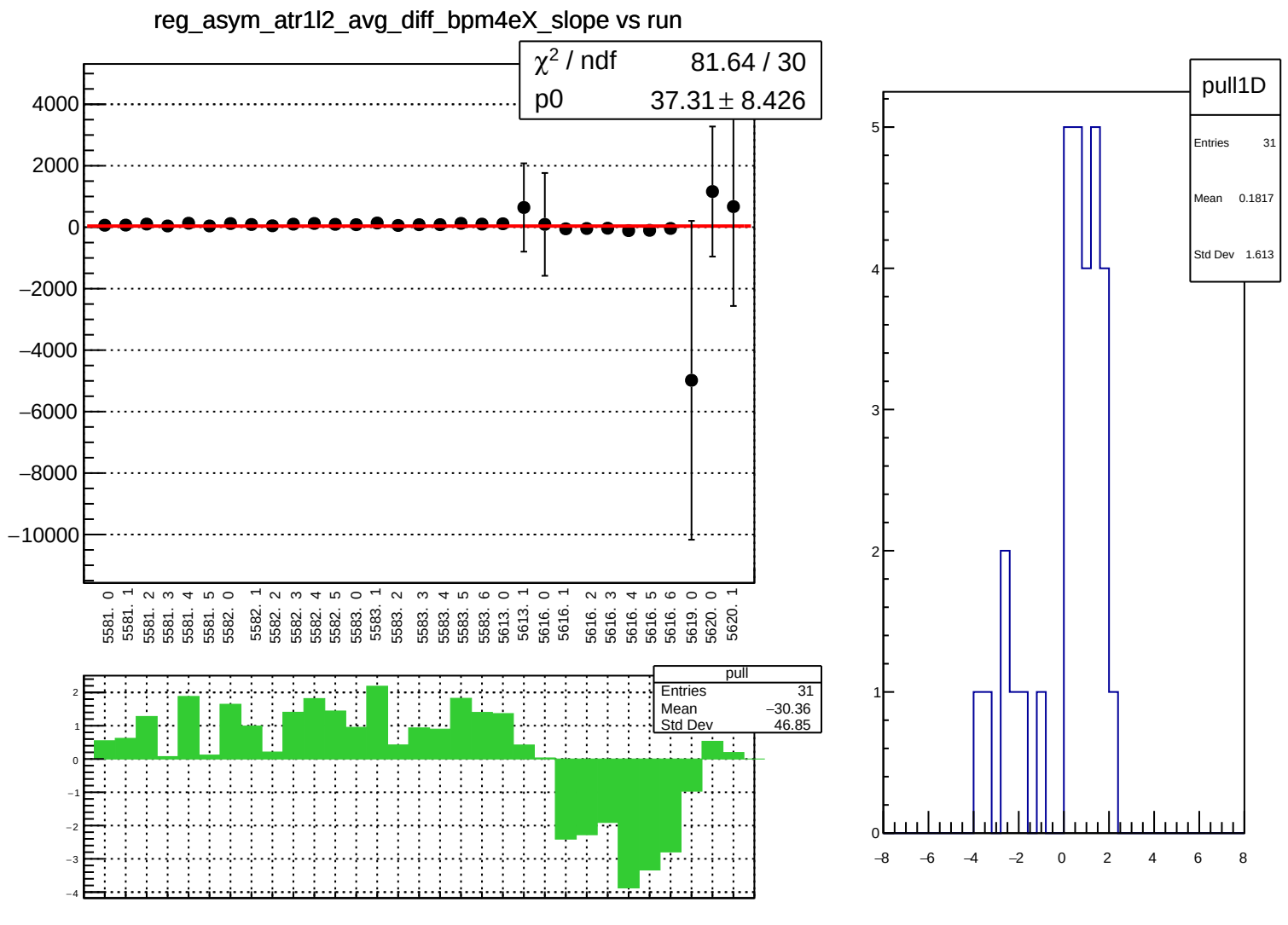

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 20.73 / 30
p0 −14.05 ± 6.875
6000
4000
2000
0
−2000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 29.03
Std Dev 8.047
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.1207
Std Dev 0.8088
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

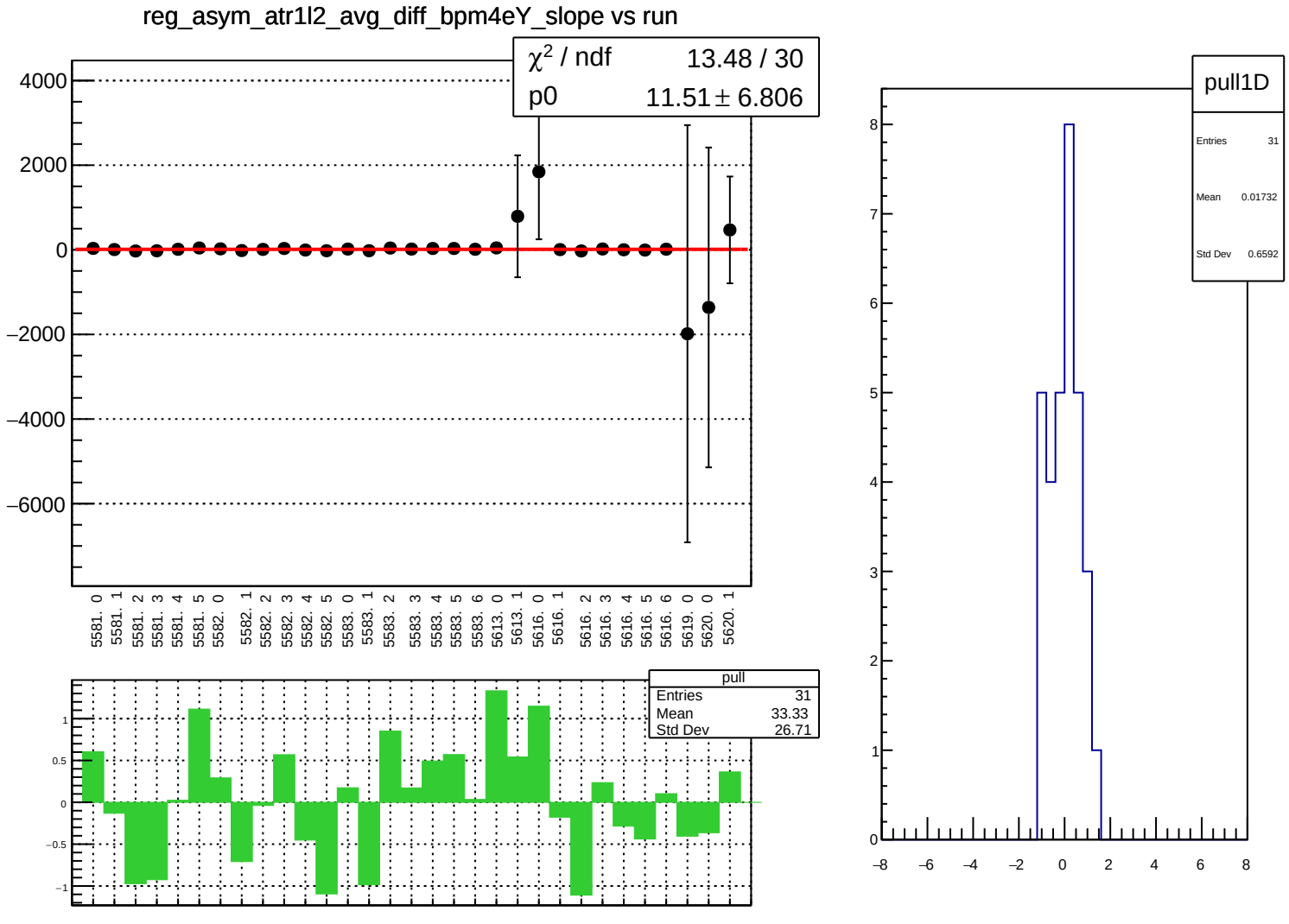

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 1.706e+04 / 30
p0 54.3 ± 0.2366
150
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −4.738
Std Dev 19.59
20
0
−20
−40
−60
−80
pull1D
Entries 31
Mean 1.109
Std Dev 3.607
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

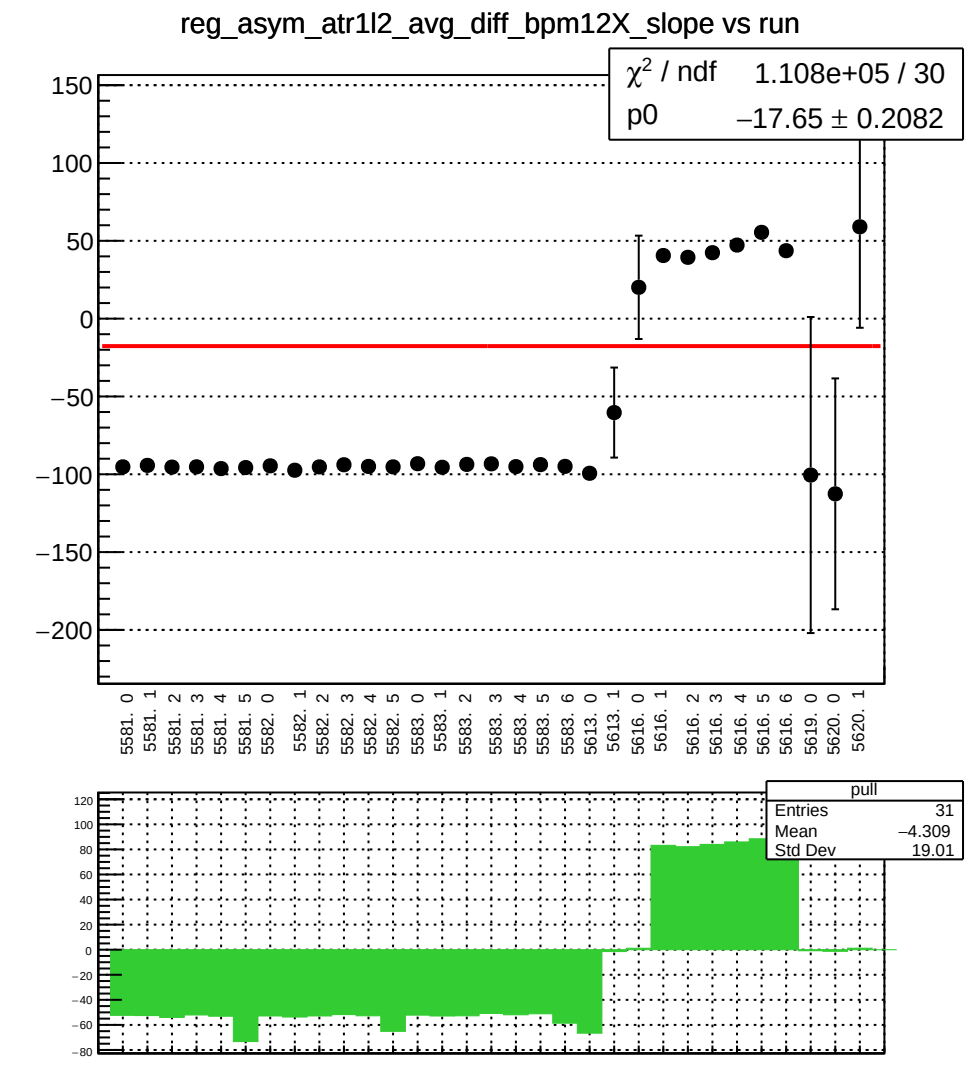

reg_asym_atr1l2_avg_diff_bpm4aX_slope vs run
χ² / ndf 110.9 / 30
p0 −66.72 ± 8.562
10000
8000
6000
4000
2000
0
−2000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −19.55
Std Dev 35.7
4
3
2
1
0
−1
−2

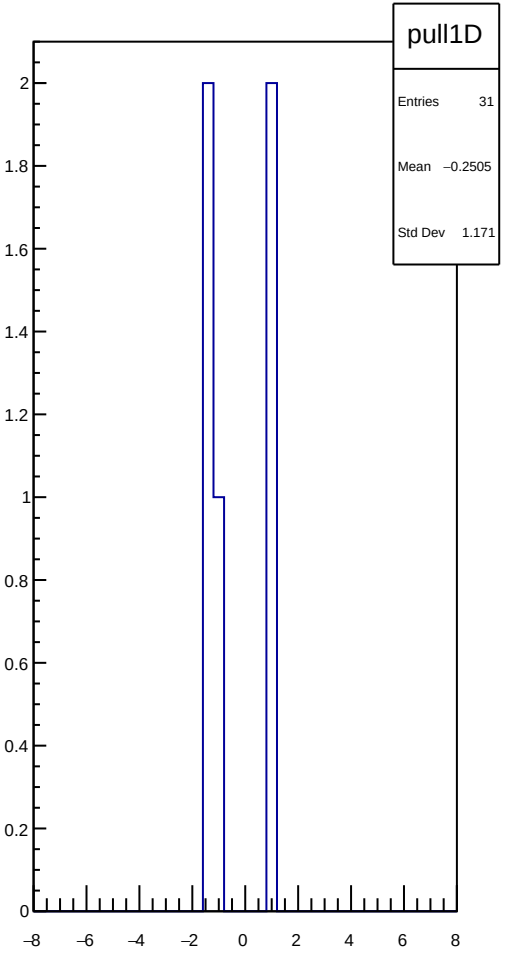

pull1D
Entries 31
Mean −0.2853
Std Dev 1.87
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

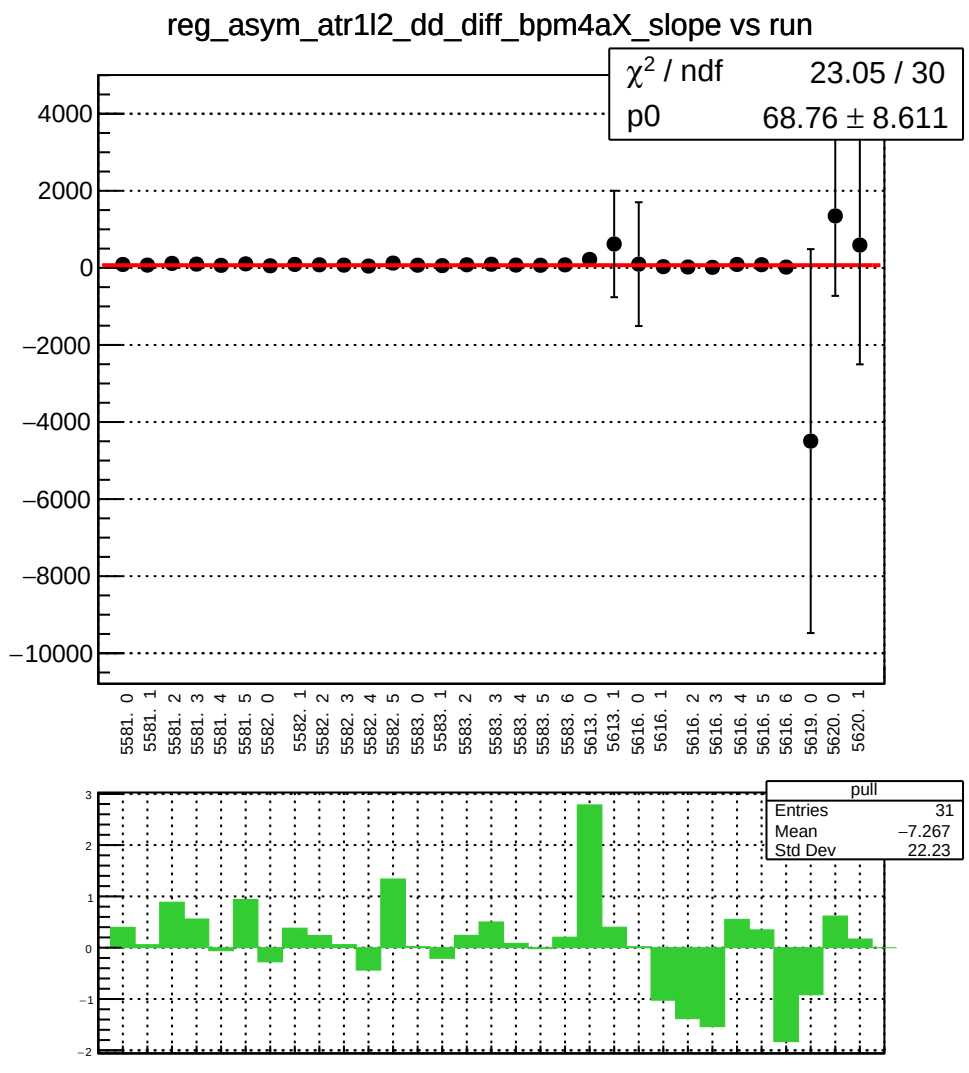

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 29.71 / 30
p0 11.13 ± 5.17
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 306.6
Std Dev 290.4
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 31
Mean −0.01881
Std Dev 0.9788
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

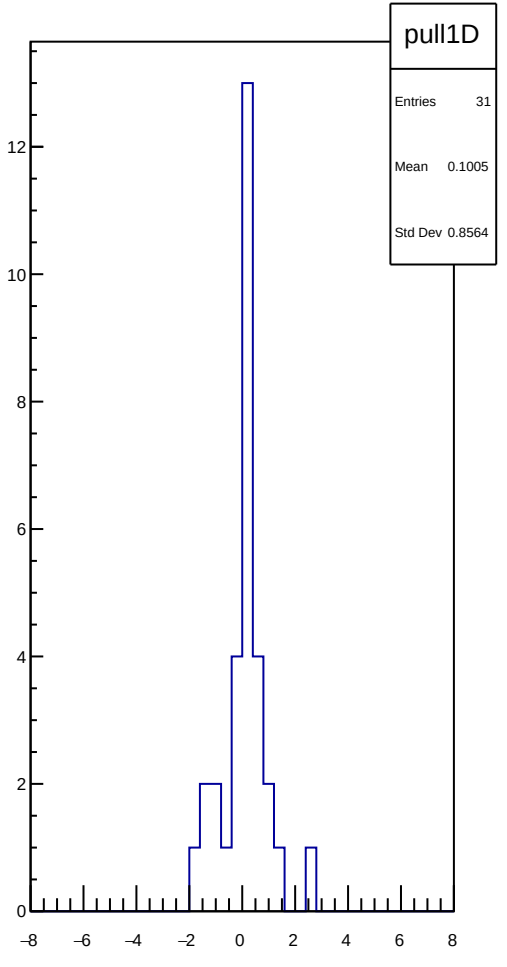

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 81.64 / 30
p0 37.31 ± 8.426
4000
2000
0
−2000
−4000
−6000
−8000
−10000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −30.36
Std Dev 46.85
2
1
0
−1
−2
−3
−4
pull1D
Entries 31
Mean 0.1817
Std Dev 1.613
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

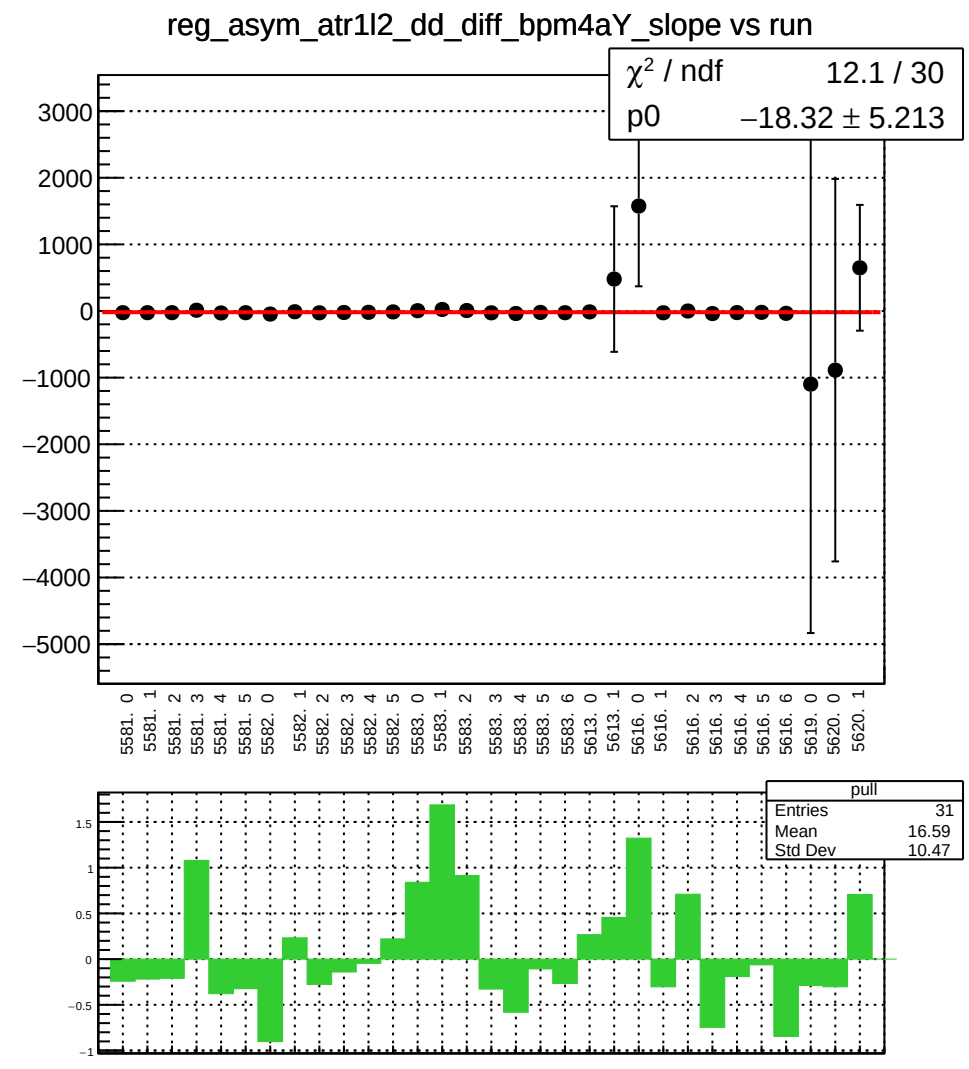

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 13.48 / 30
p0 11.51 ± 6.806
4000
2000
0
−2000
−4000
−6000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 33.33
Std Dev 26.71
1
0.5
0
−0.5
−1
pull1D
Entries 31
Mean 0.01732
Std Dev 0.6592
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

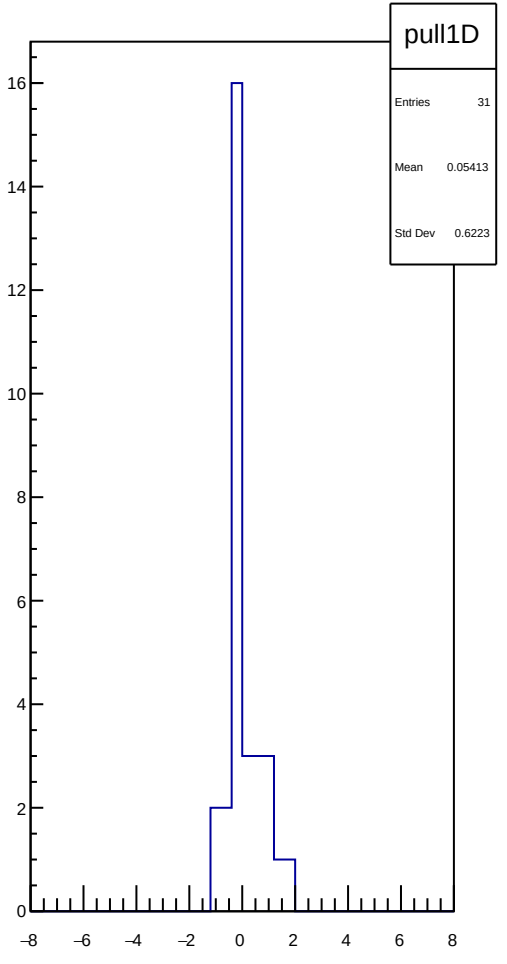

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 1.108e+05 / 30
p0 −17.65 ± 0.2082
150
100
50
0
−50
−100
−150
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −4.309
Std Dev 19.01
120
100
80
60
40
20
0
−20
−40
−60
−80

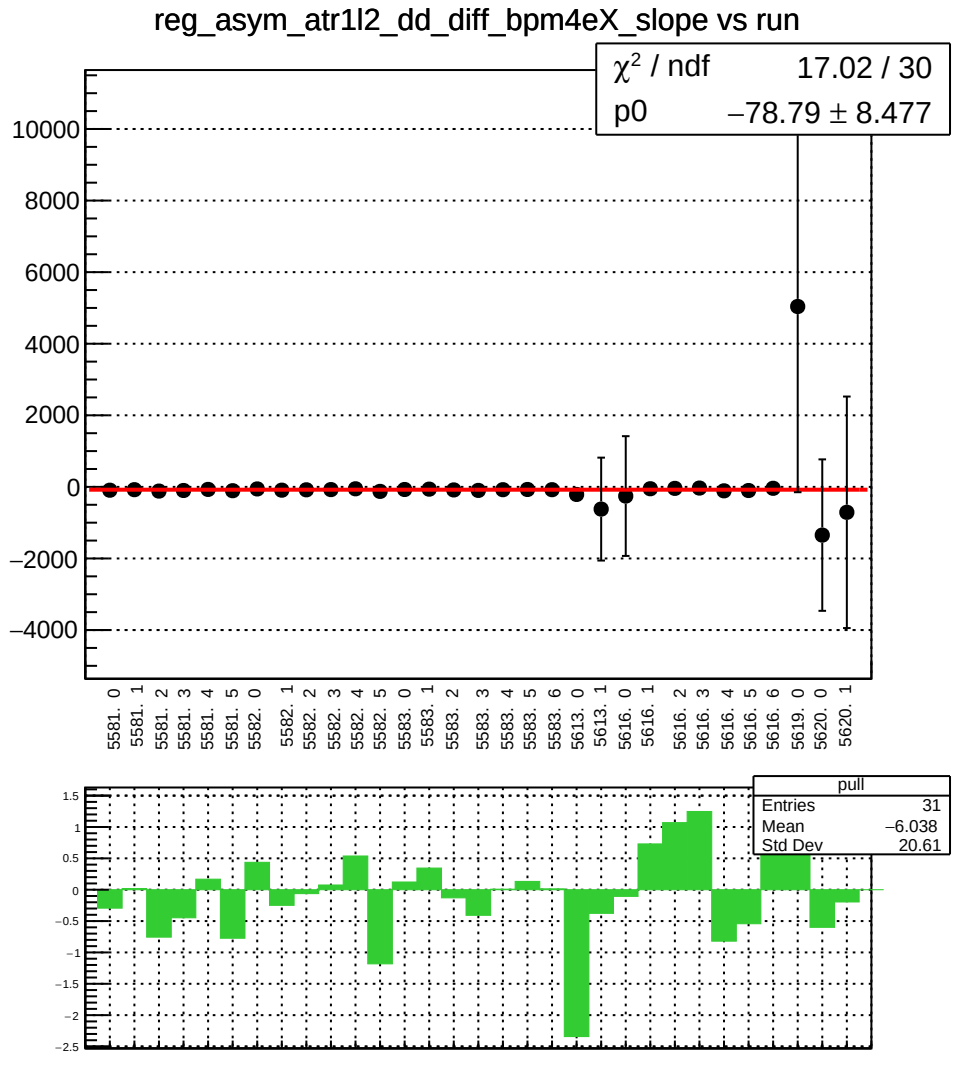

pull1D
Entries 31
Mean −0.2505
Std Dev 1.171
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

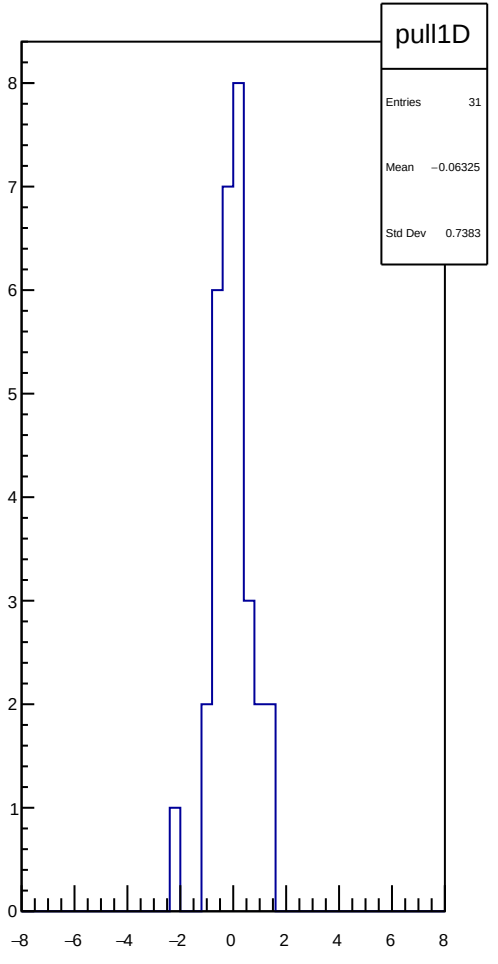

reg_asym_atr1l2_dd_diff_bpm4aX_slope vs run
χ² / ndf 23.05 / 30
p0 68.76 ± 8.611
4000
2000
0
−2000
−4000
−6000
−8000
−10000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −7.267
Std Dev 22.23
3
2
1
0
−1
−2

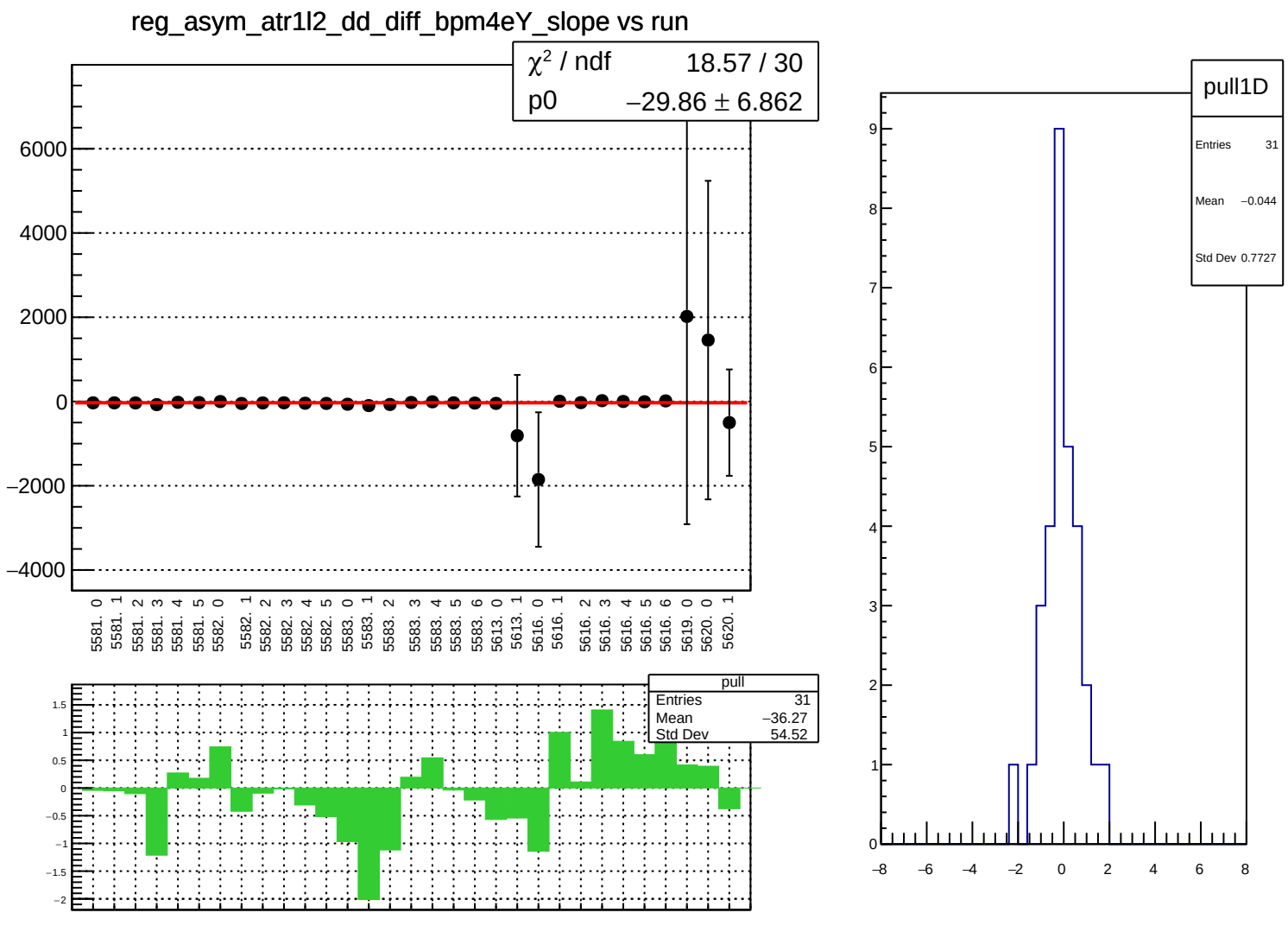

pull1D
Entries 31
Mean 0.1005
Std Dev 0.8564
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

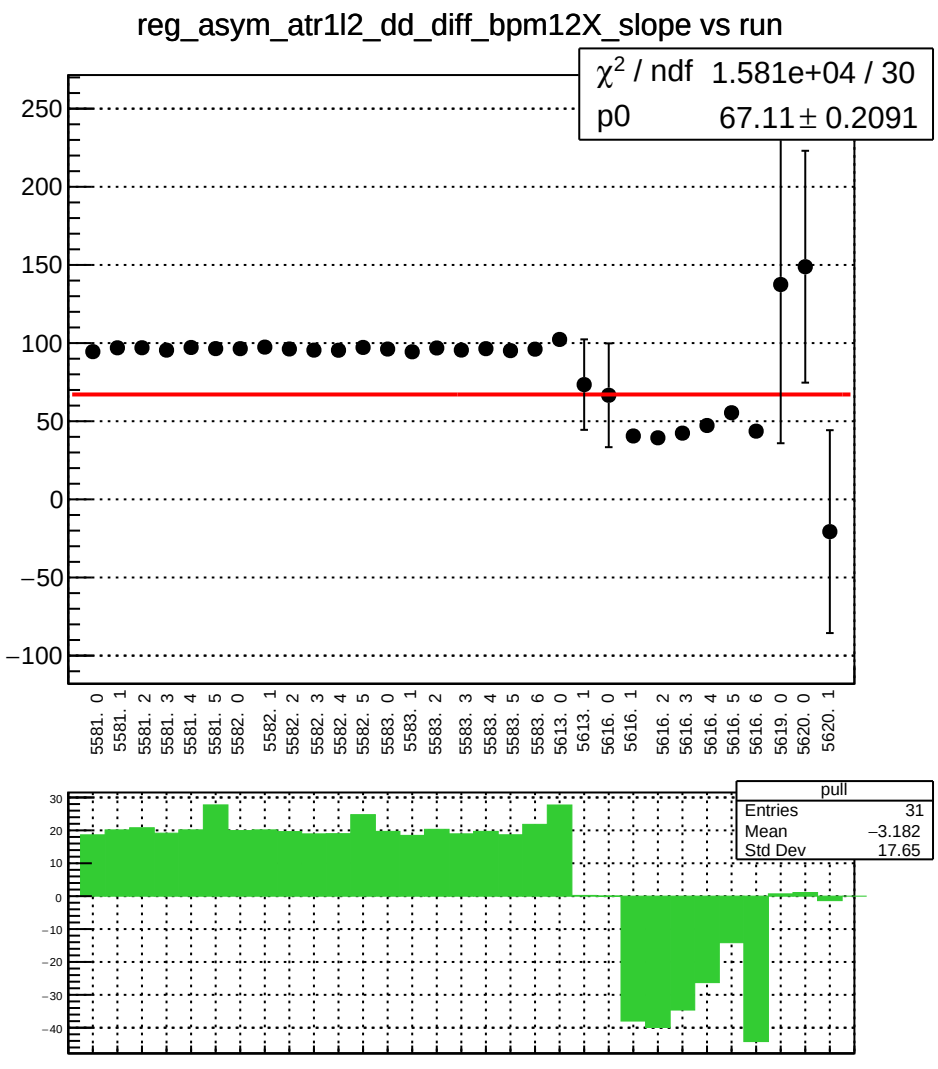

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 12.1 / 30
p0 −18.32 ± 5.213
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 16.59
Std Dev 10.47
1.5
1
0.5
0
−0.5
−1

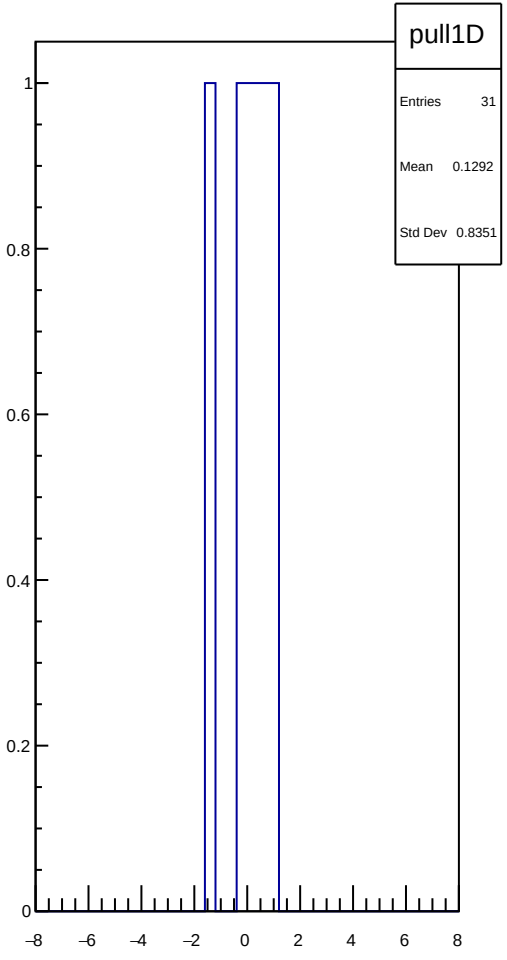

pull1D
Entries 31
Mean 0.05413
Std Dev 0.6223
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

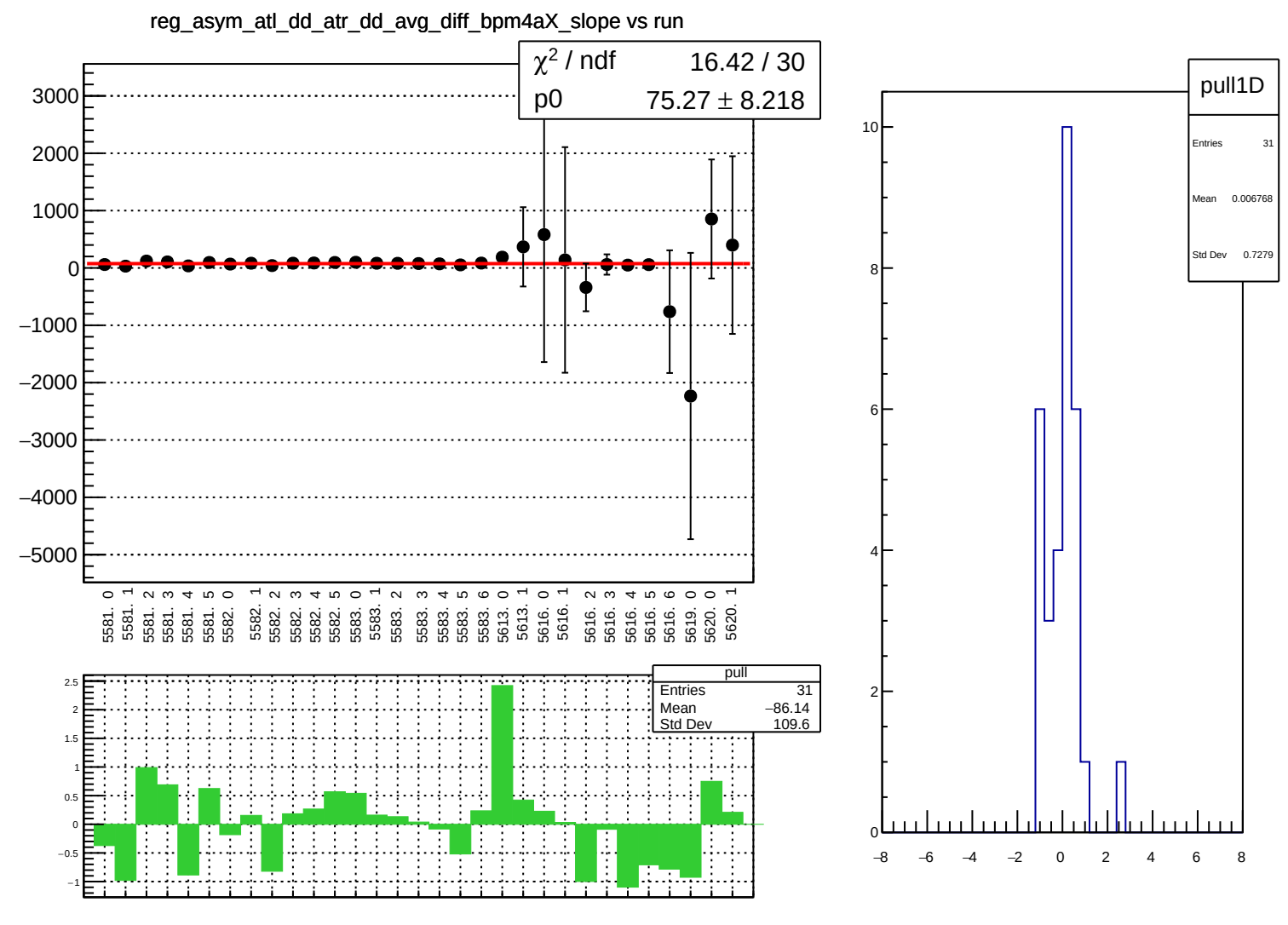

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 17.02 / 30
p0 −78.79 ± 8.477
10000
8000
6000
4000
2000
0
−2000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −6.038
Std Dev 20.61
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

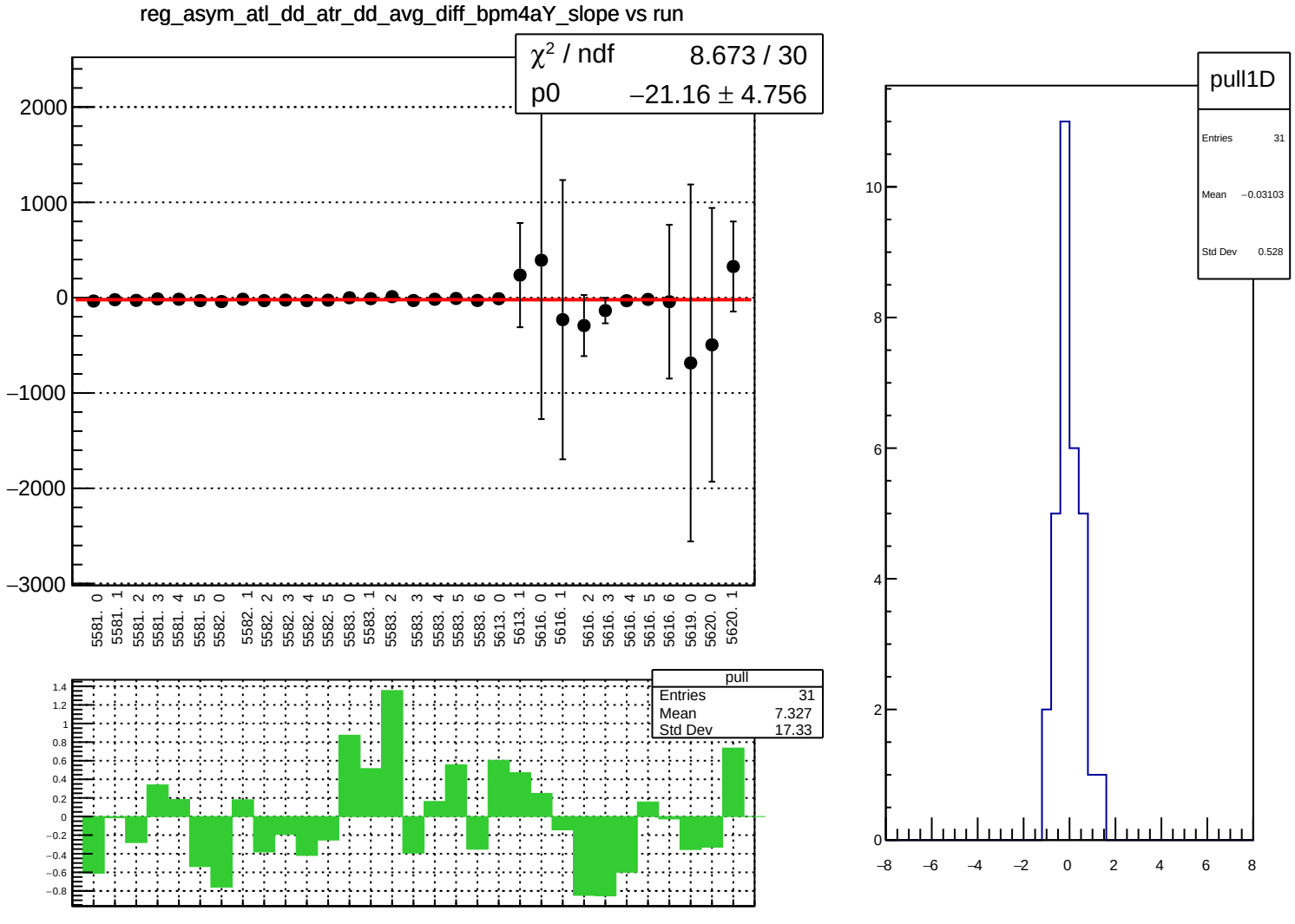

pull1D
Entries 31
Mean −0.06325
Std Dev 0.7383
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

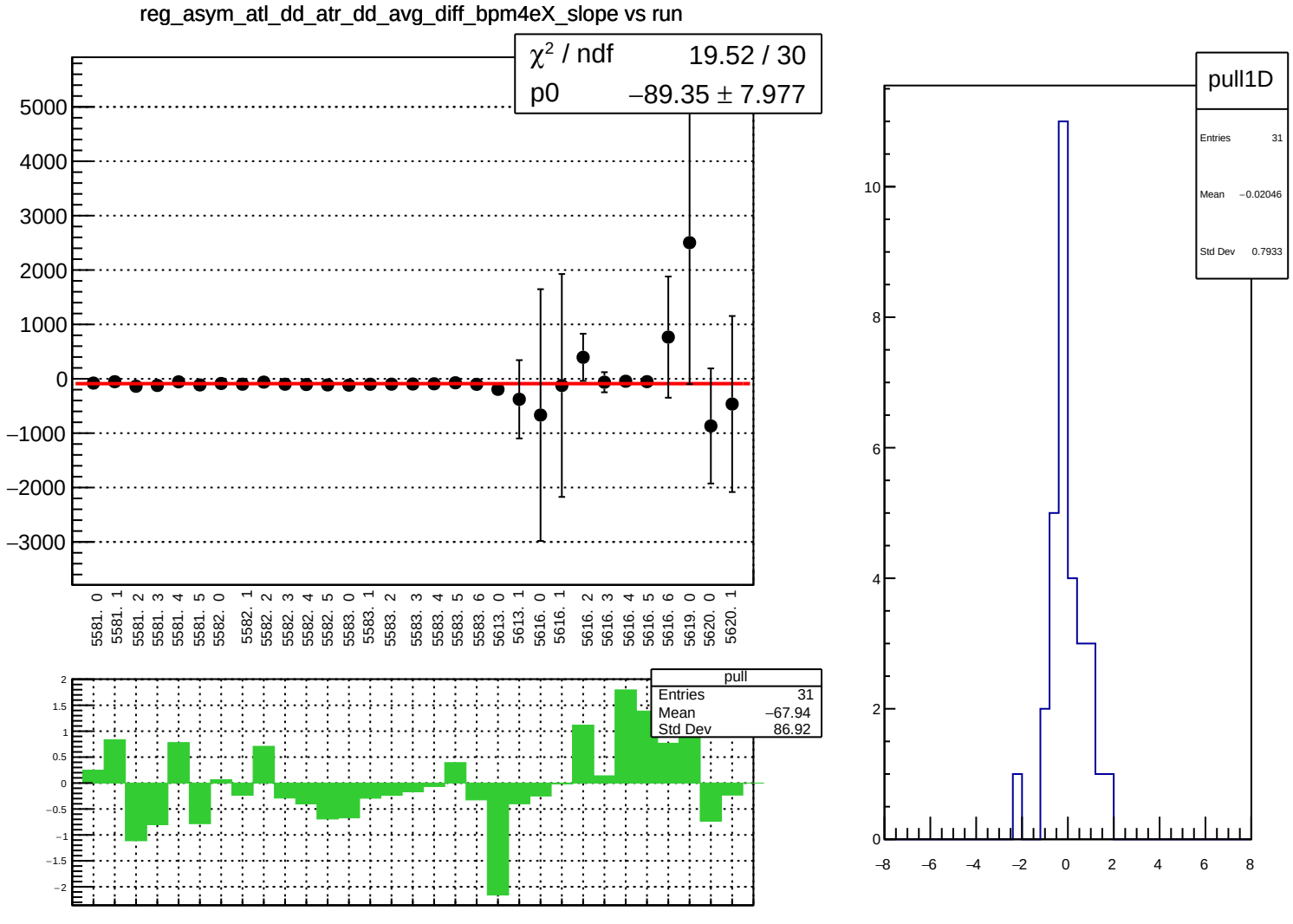

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 18.57 / 30
p0 −29.86 ± 6.862
6000
4000
2000
0
−2000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −36.27
Std Dev 54.52
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.044
Std Dev 0.7727
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

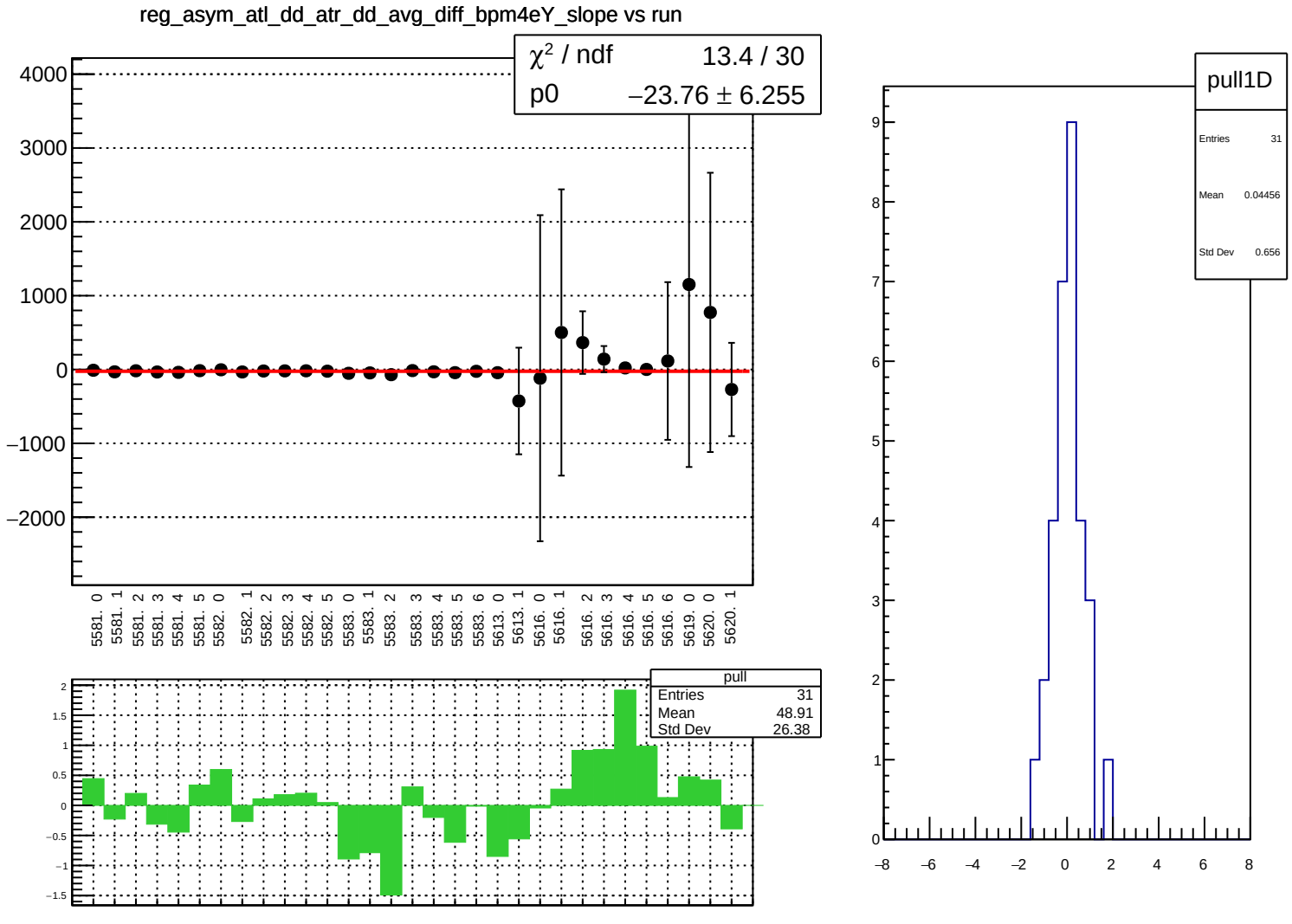

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 1.581e+04 / 30
p0 67.11 ± 0.2091
250
200
150
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −3.182
Std Dev 17.65
30
20
10
0
−10
−20
−30
−40

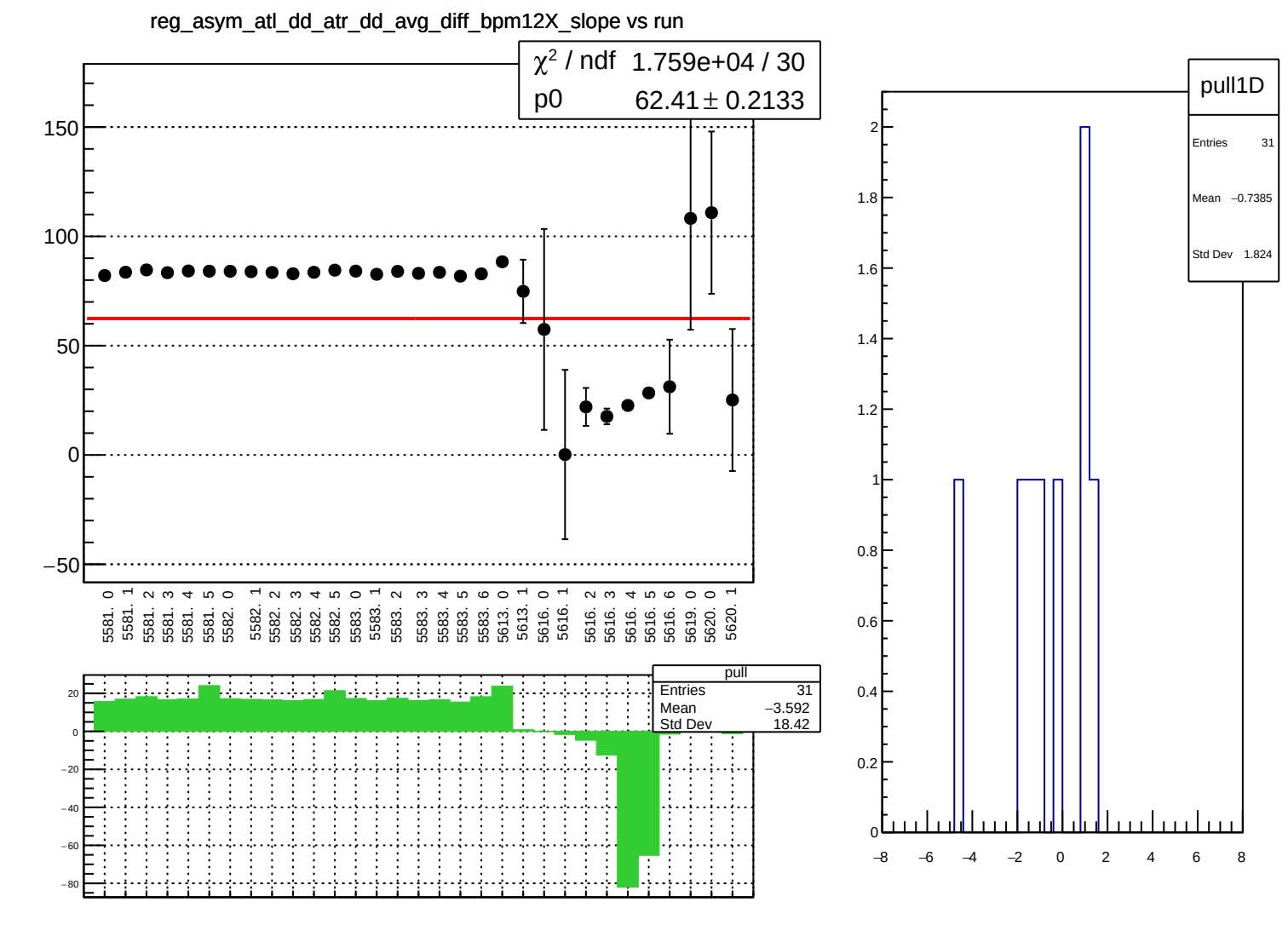

pull1D
Entries 31
Mean 0.1292
Std Dev 0.8351
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

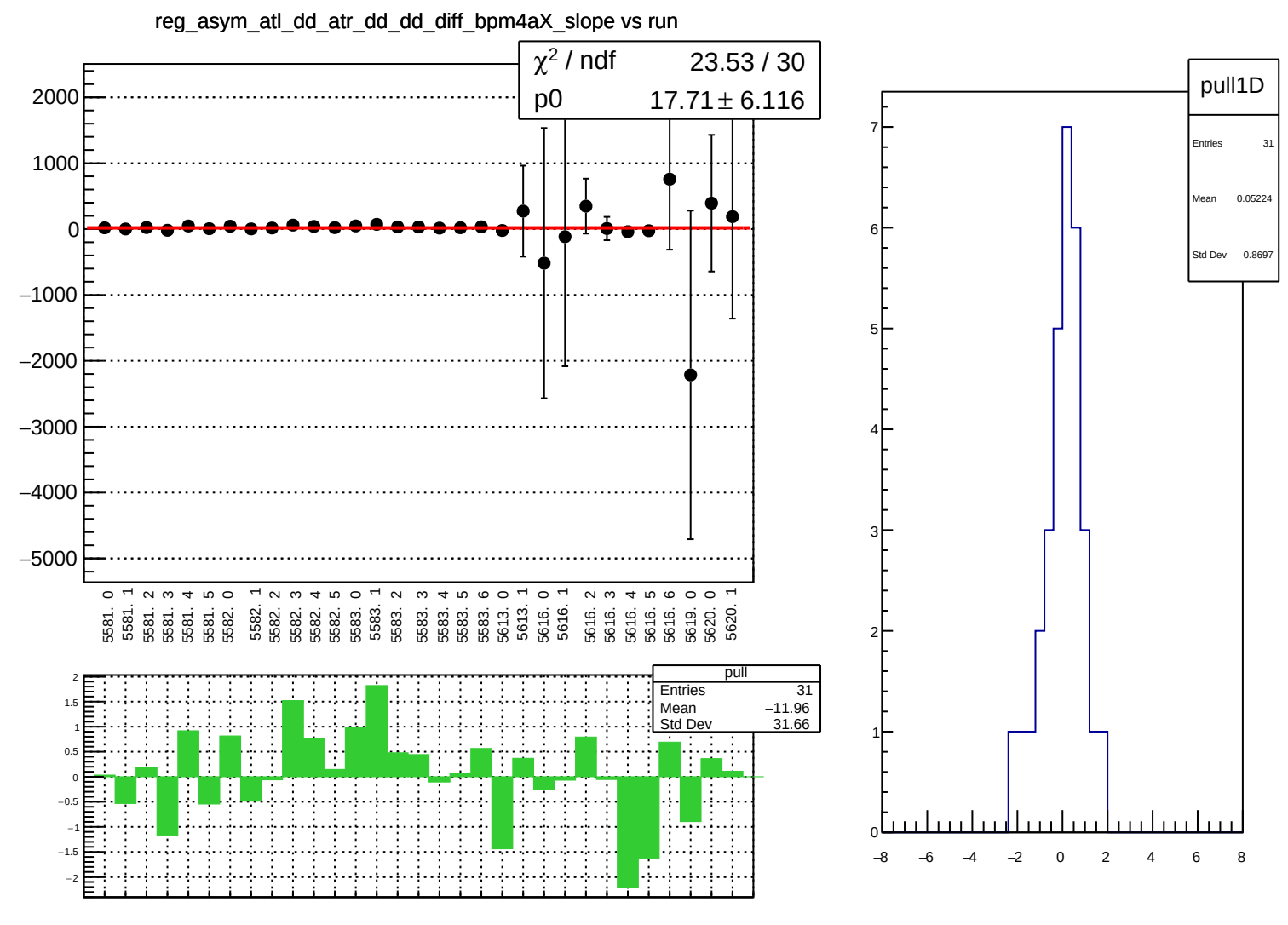

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aX_slope vs run
χ² / ndf 16.42 / 30
p0 75.27 ± 8.218
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −86.14
Std Dev 109.6
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 31
Mean 0.006768
Std Dev 0.7279
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

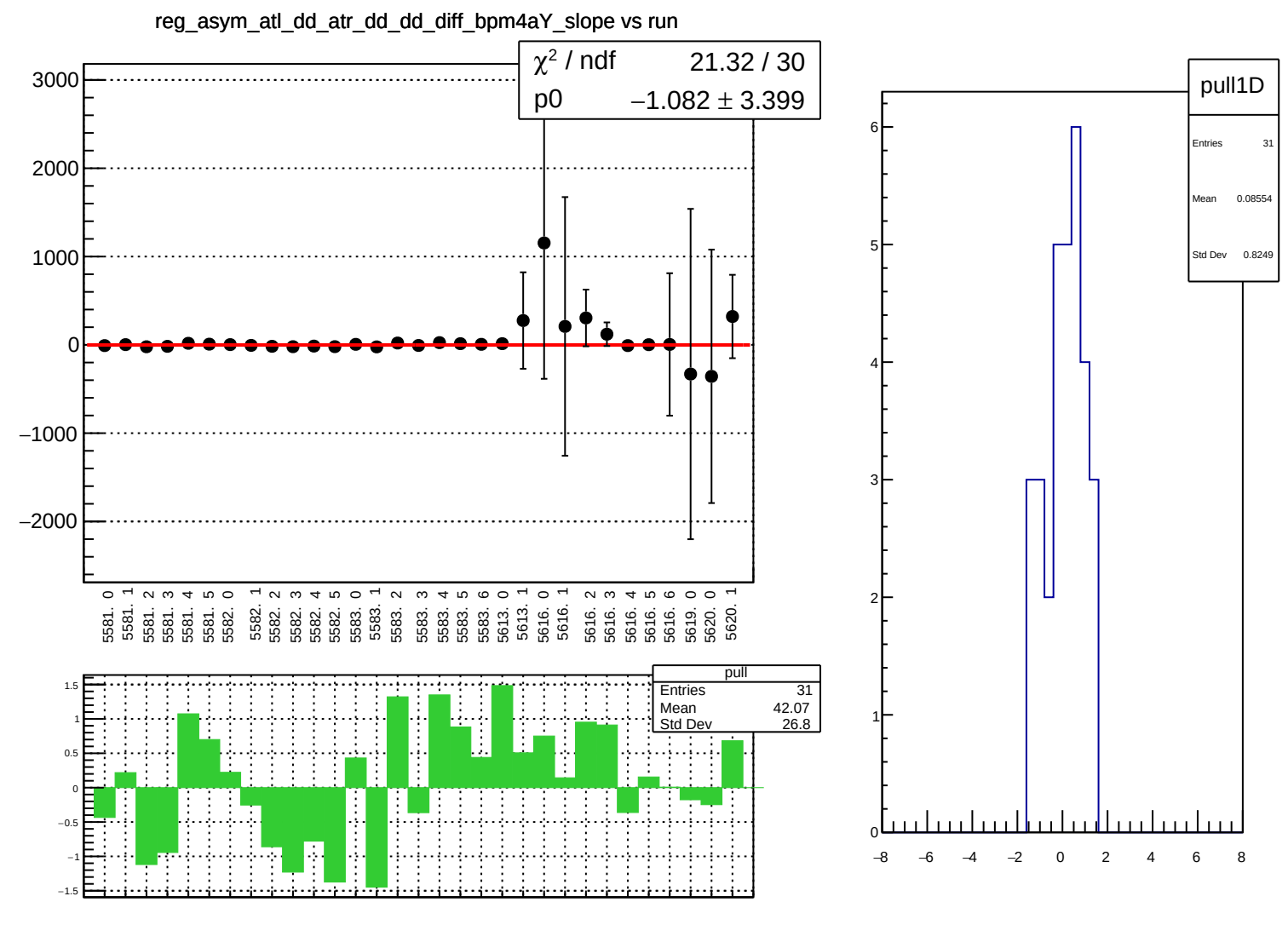

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.673 / 30
p0 −21.16 ± 4.756
2000
1000
0
−1000
−2000
−3000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 7.327
Std Dev 17.33
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 31
Mean −0.03103
Std Dev 0.528
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

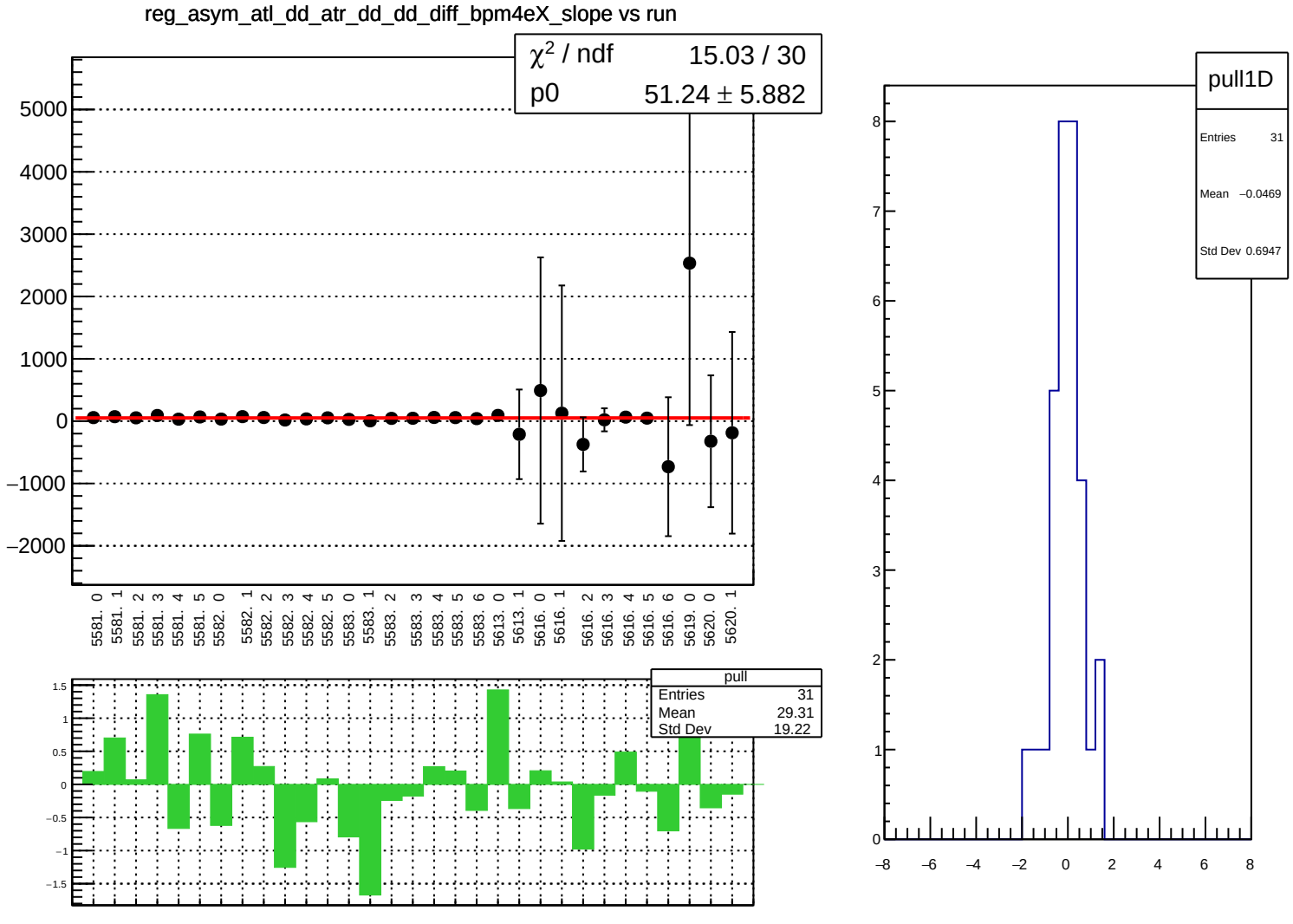

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 19.52 / 30
p0 −89.35 ± 7.977
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −67.94
Std Dev 86.92
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.02046
Std Dev 0.7933
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

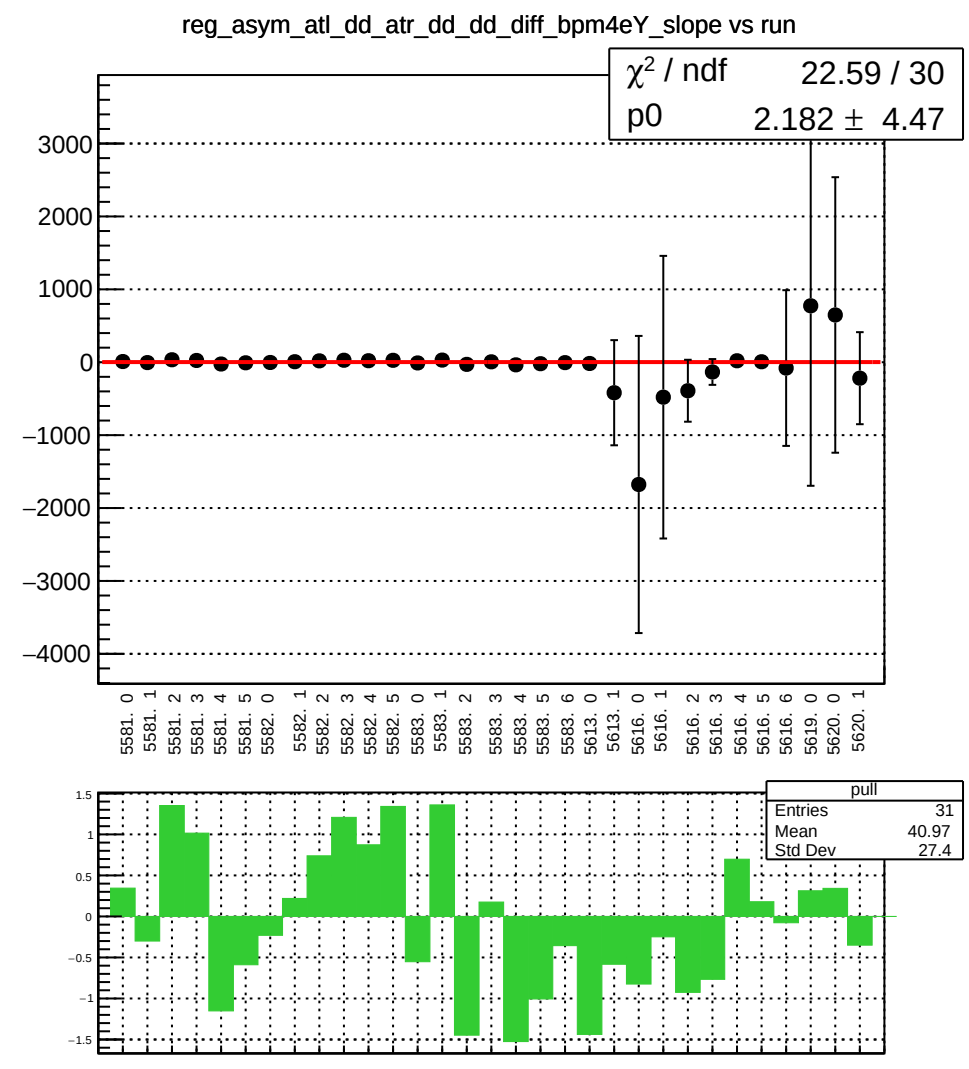

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 13.4 / 30
p0 −23.76 ± 6.255
4000
3000
2000
1000
0
−1000
−2000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 48.91
Std Dev 26.38
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.04456
Std Dev 0.656
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

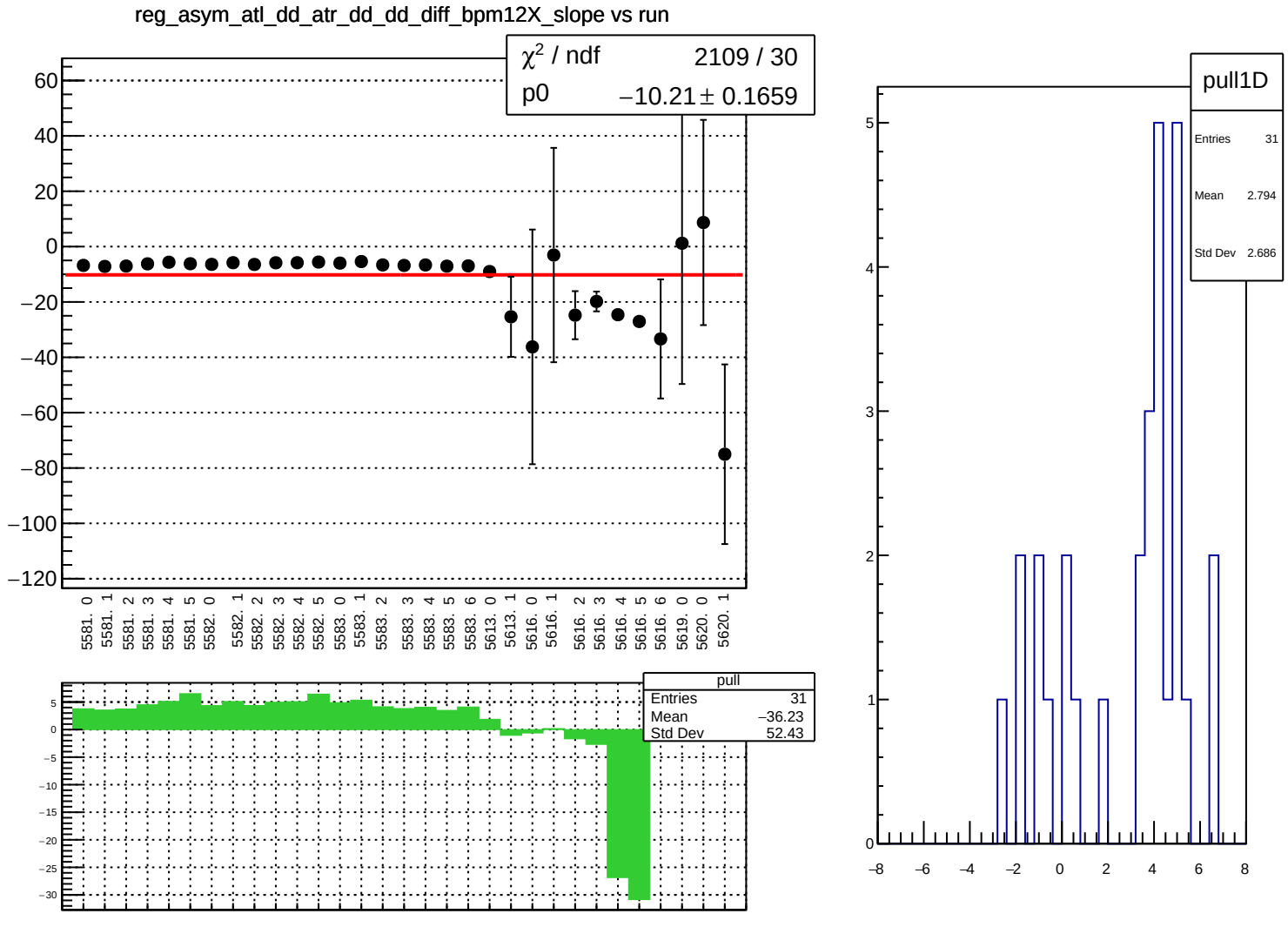

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 1.759e+04 / 30
p0 62.41 ± 0.2133
150
100
50
0
−50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −3.592
Std Dev 18.42
20
0
−20
−40
−60
−80
pull1D
Entries 31
Mean −0.7385
Std Dev 1.824
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

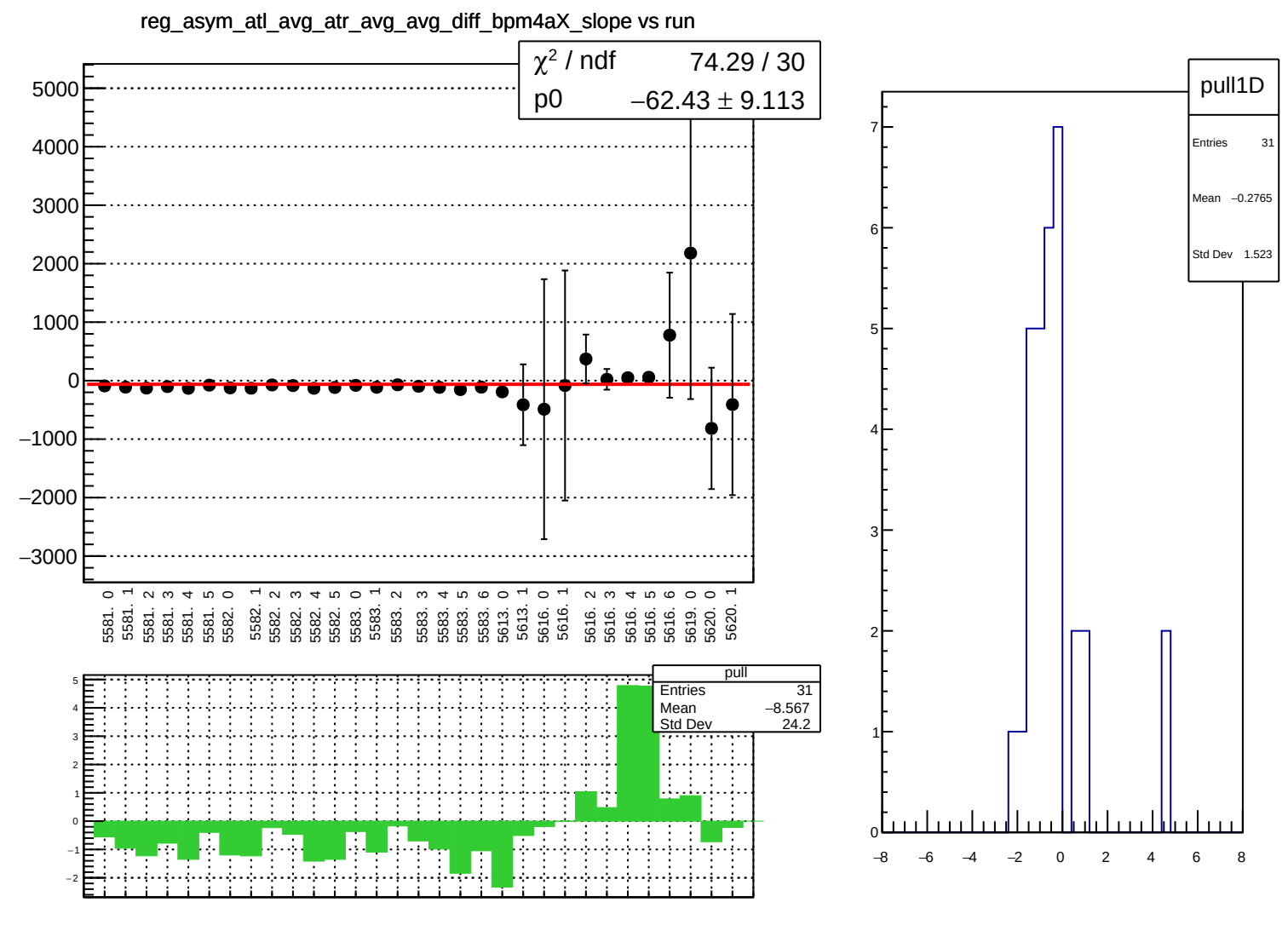

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aX_slope vs run
χ² / ndf 23.53 / 30
p0 17.71 ± 6.116
2000
1000
0
−1000
−2000
−3000
−4000
−5000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −11.96
Std Dev 31.66
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean 0.05224
Std Dev 0.8697
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

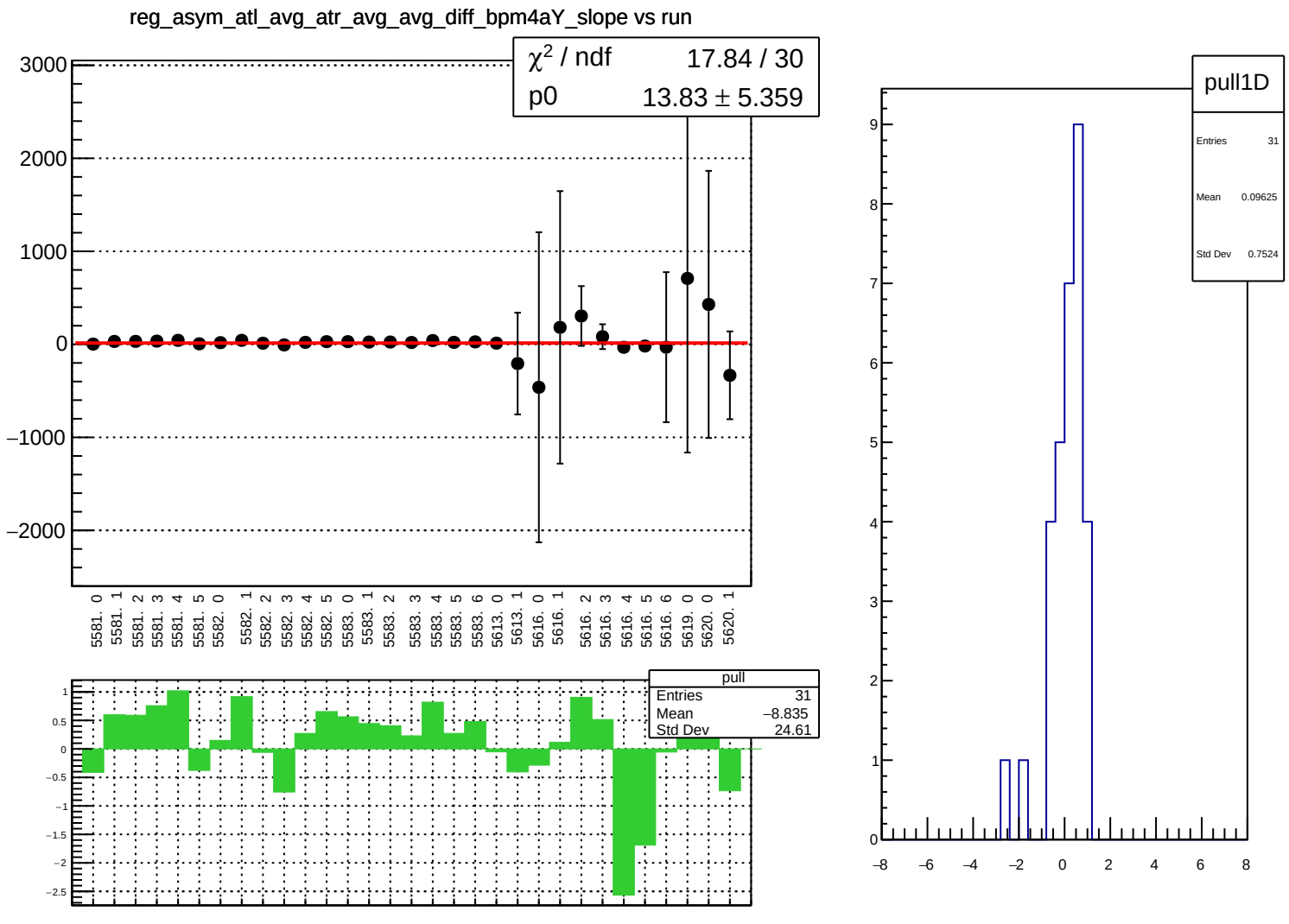

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 21.32 / 30
p0 −1.082 ± 3.399
3000
2000
1000
0
−1000
−2000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 42.07
Std Dev 26.8
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.08554
Std Dev 0.8249
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

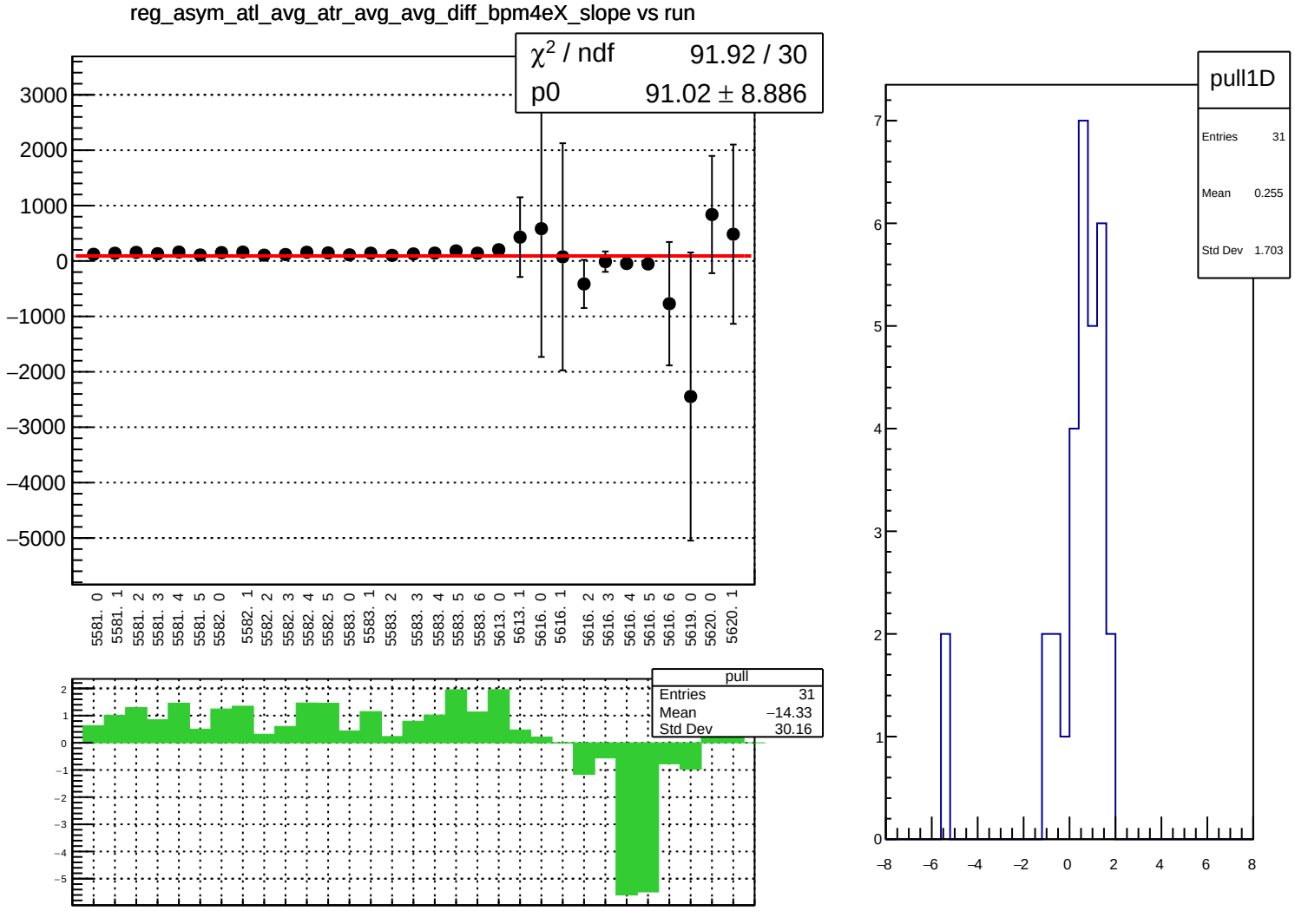

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 15.03 / 30
p0 51.24 ± 5.882
5000
4000
3000
2000
1000
0
−1000
−2000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 29.31
Std Dev 19.22
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean −0.0469
Std Dev 0.6947
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

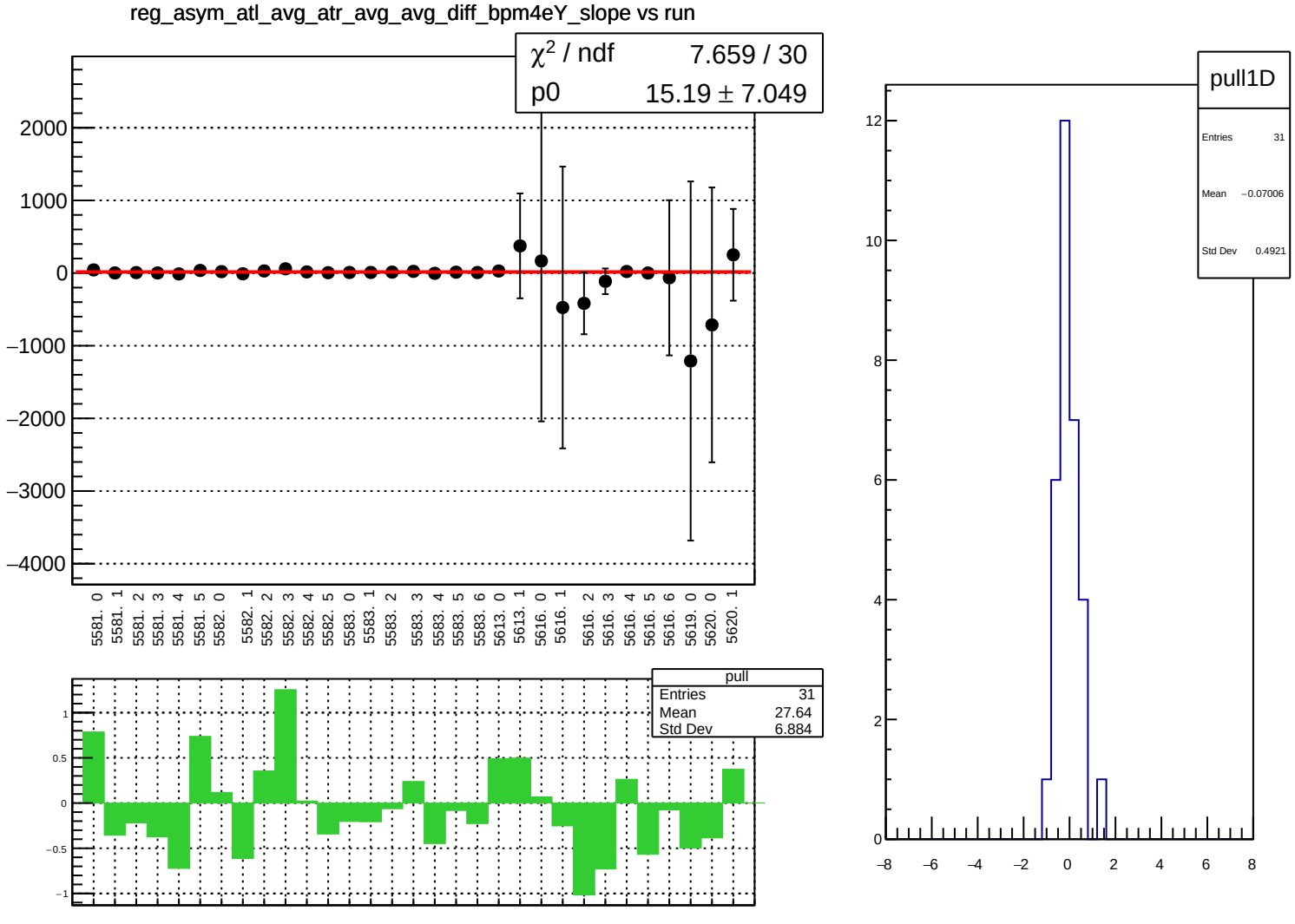

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 22.59 / 30
p0 2.182 ± 4.47
3000
2000
1000
0
−1000
−2000
−3000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 40.97
Std Dev 27.4
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean −0.07122
Std Dev 0.8507
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

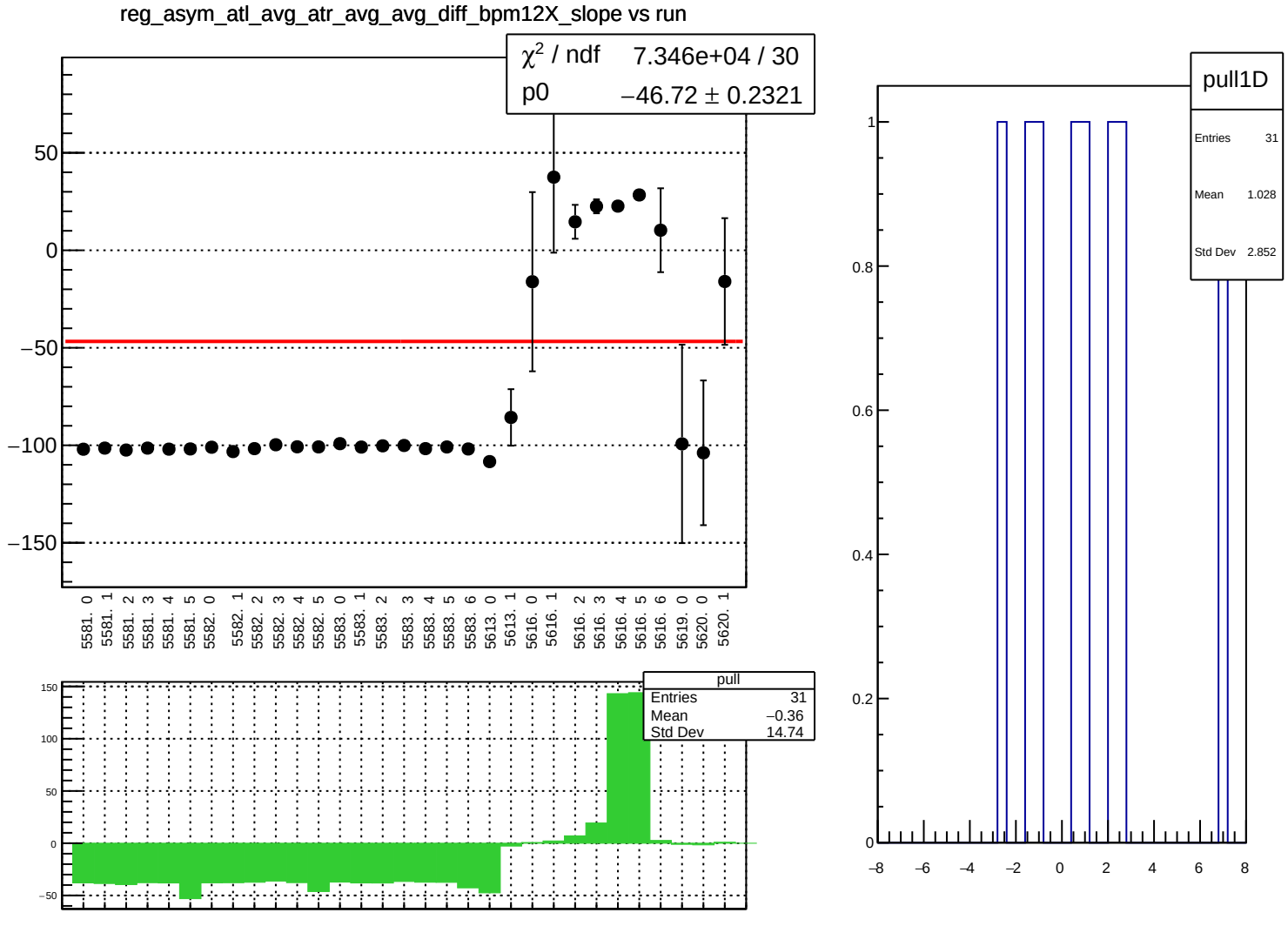

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 2109 / 30
p0 −10.21 ± 0.1659
60
40
20
0
−20
−40
−60
−80
−100
−120
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −36.23
Std Dev 52.43
5
0
−5
−10
−15
−20
−25
−30
pull1D
Entries 31
Mean 2.794
Std Dev 2.686
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

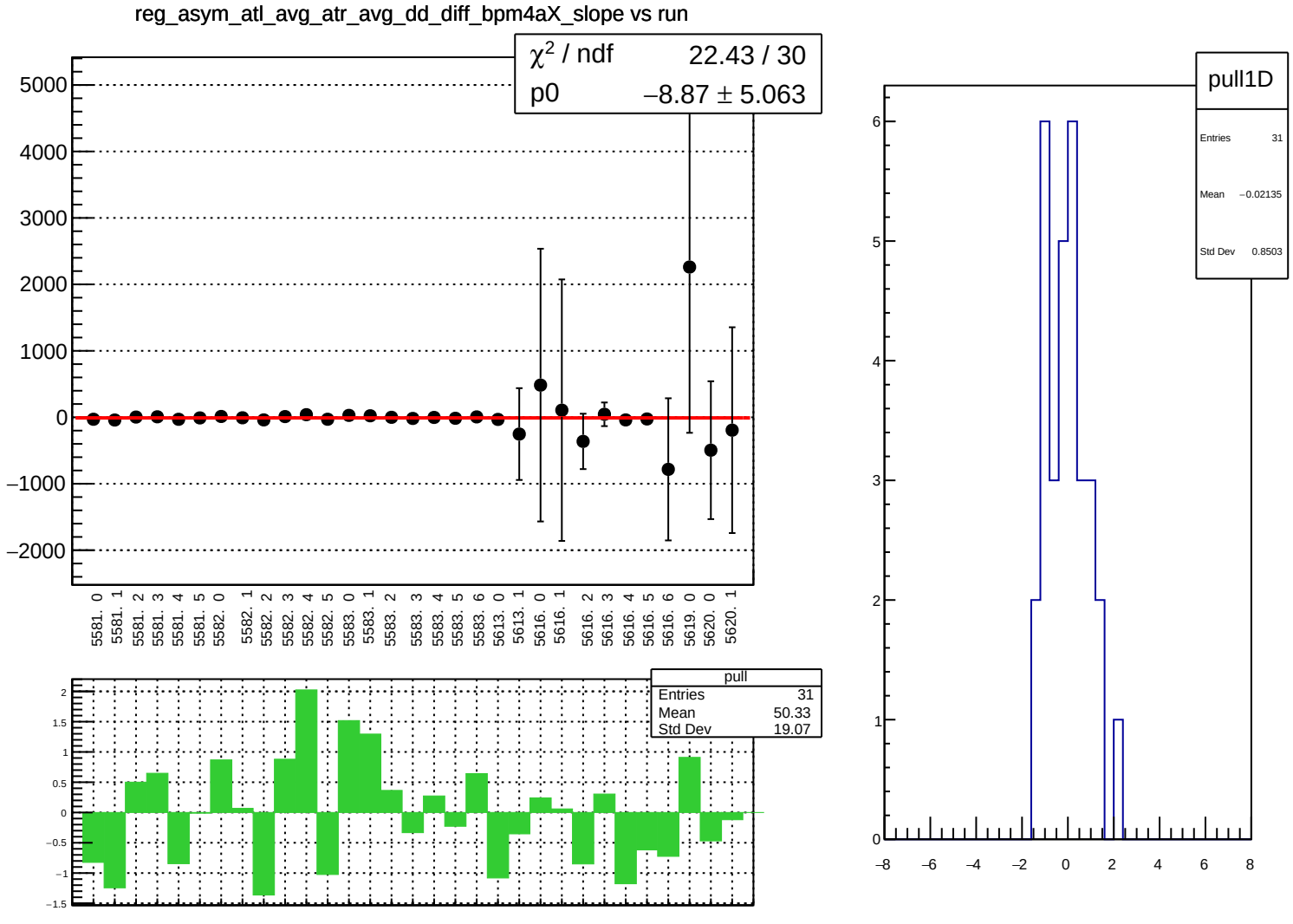

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aX_slope vs run
χ² / ndf 74.29 / 30
p0 −62.43 ± 9.113
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −8.567
Std Dev 24.2
pull1D
Entries 31
Mean −0.2765
Std Dev 1.523

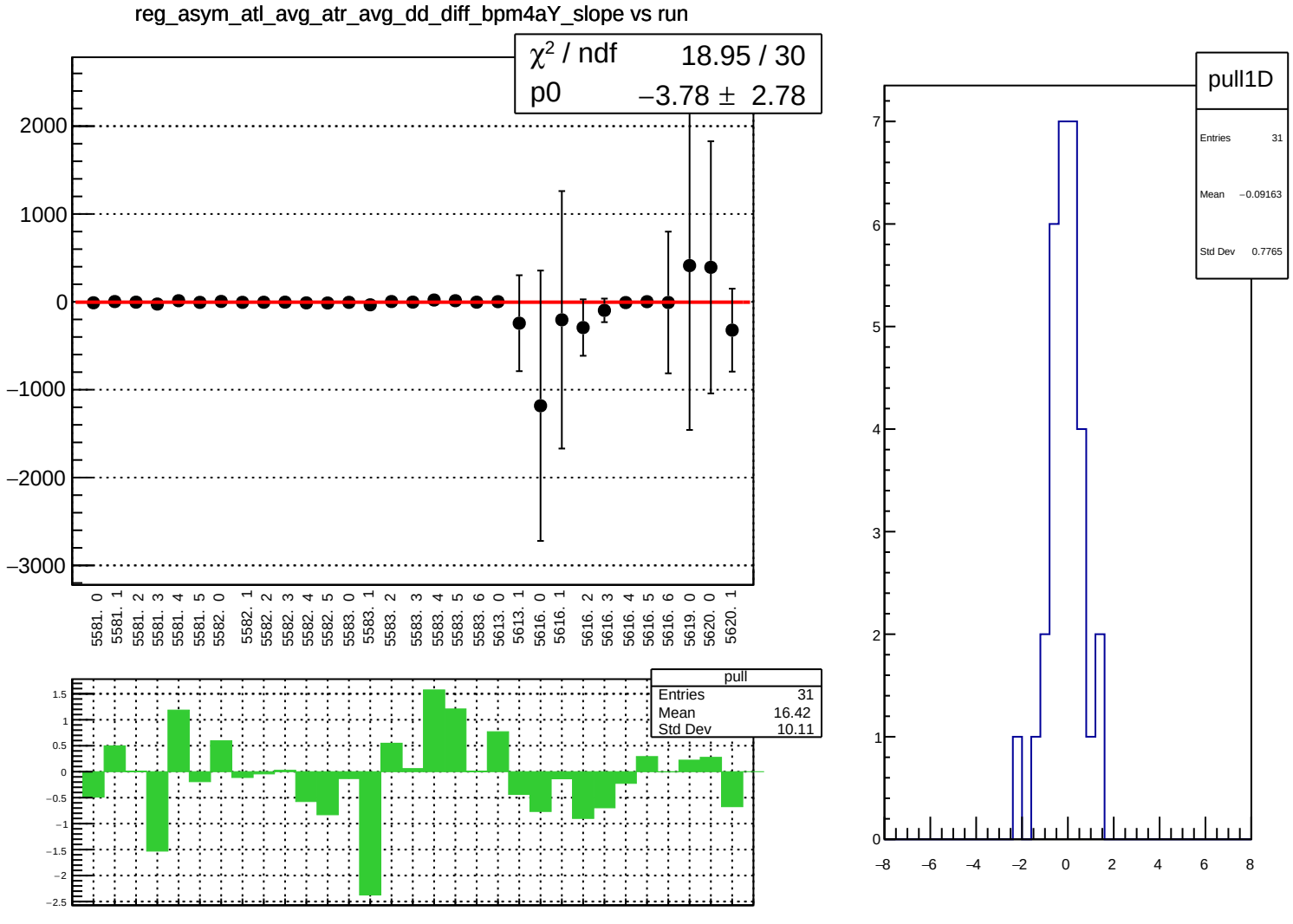

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 17.84 / 30
p0 13.83 ± 5.359
3000
2000
1000
0
−1000
−2000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −8.835
Std Dev 24.61
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 31
Mean 0.09625
Std Dev 0.7524
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

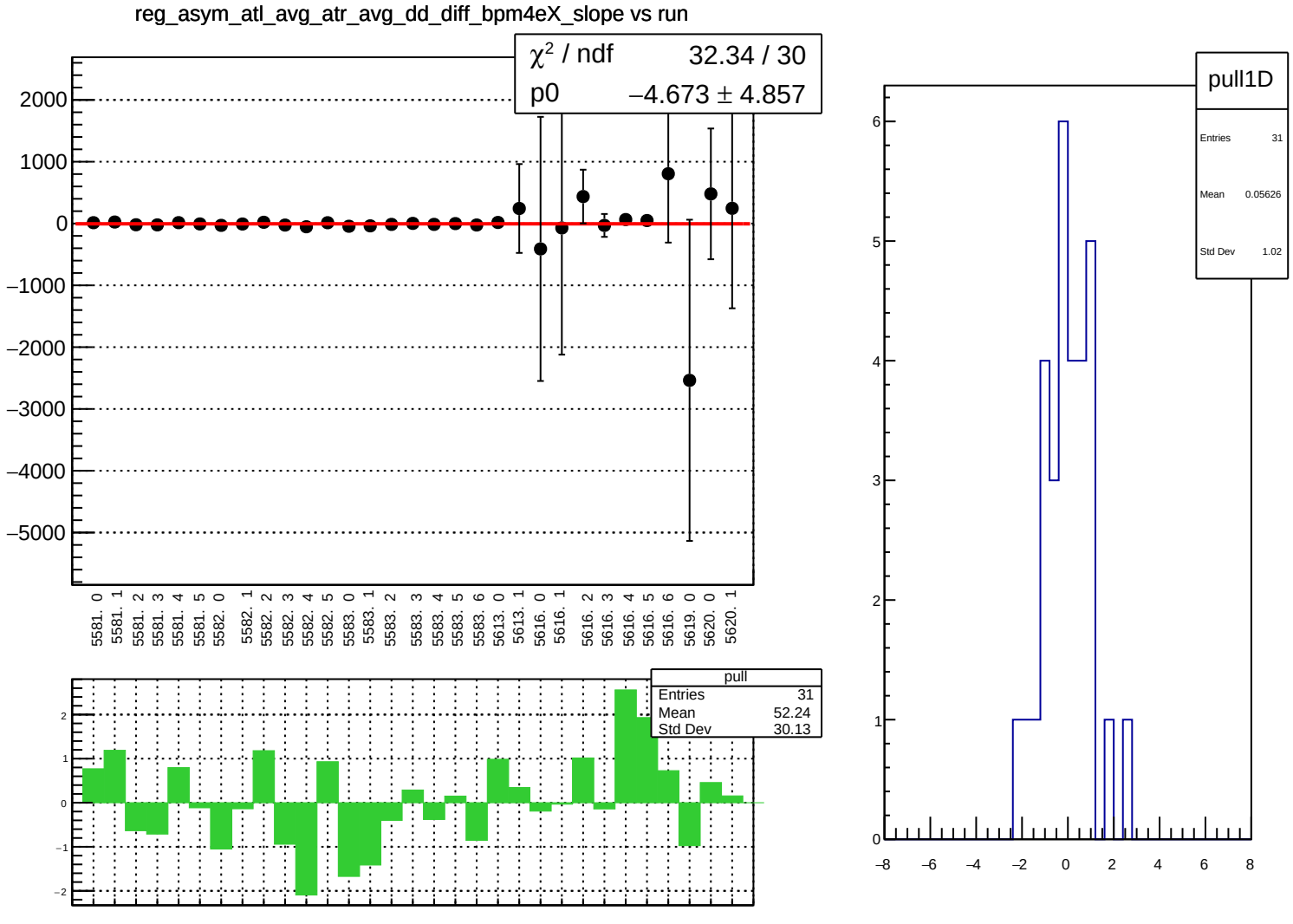

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 91.92 / 30
p0 91.02 ± 8.886
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −14.33
Std Dev 30.16
2
1
0
−1
−2
−3
−4
−5
pull1D
Entries 31
Mean 0.255
Std Dev 1.703
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

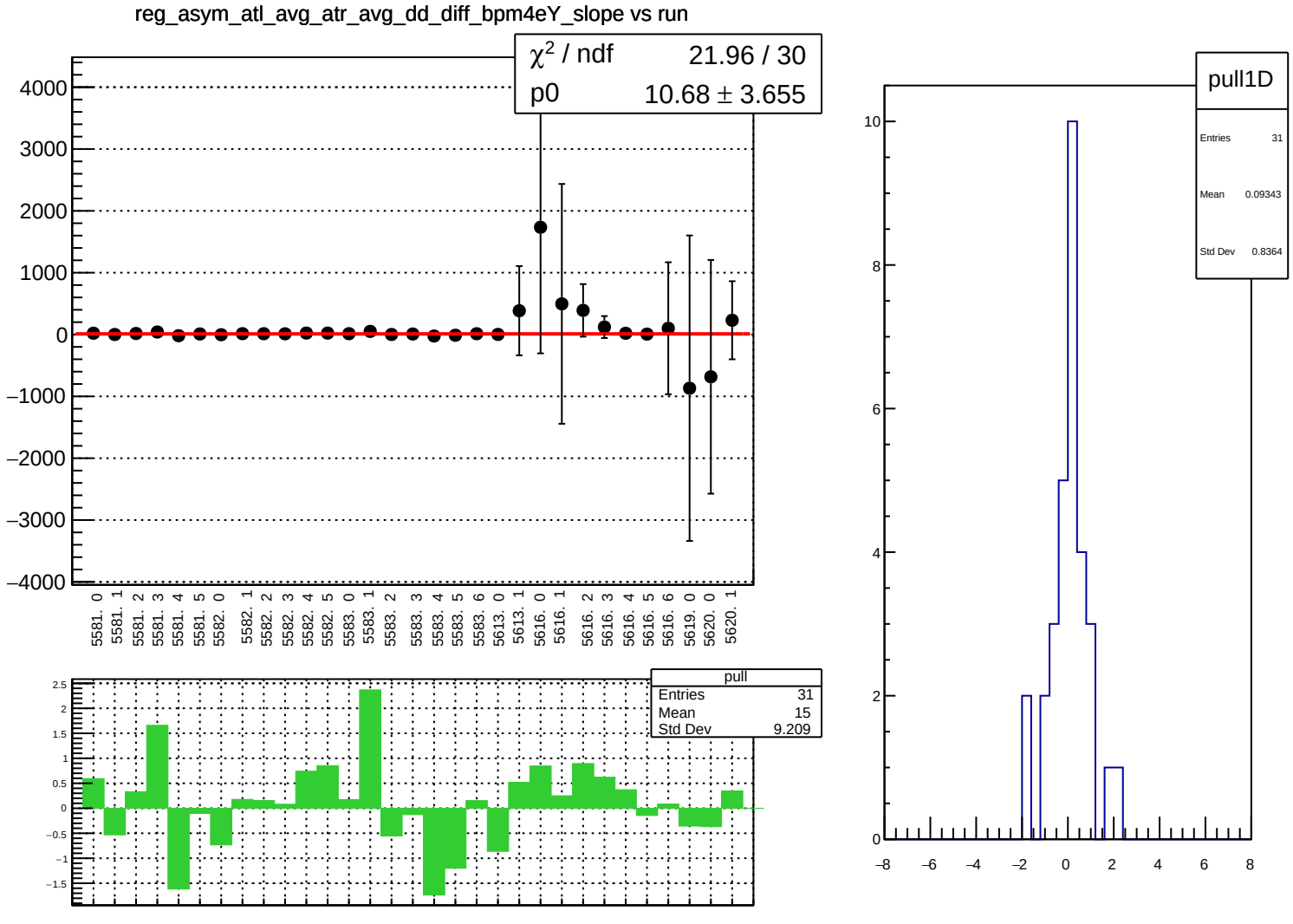

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.659 / 30
p0 15.19 ± 7.049
2000
1000
0
−1000
−2000
−3000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 27.64
Std Dev 6.884
1
0.5
0
−0.5
−1
pull1D
Entries 31
Mean −0.07006
Std Dev 0.4921
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

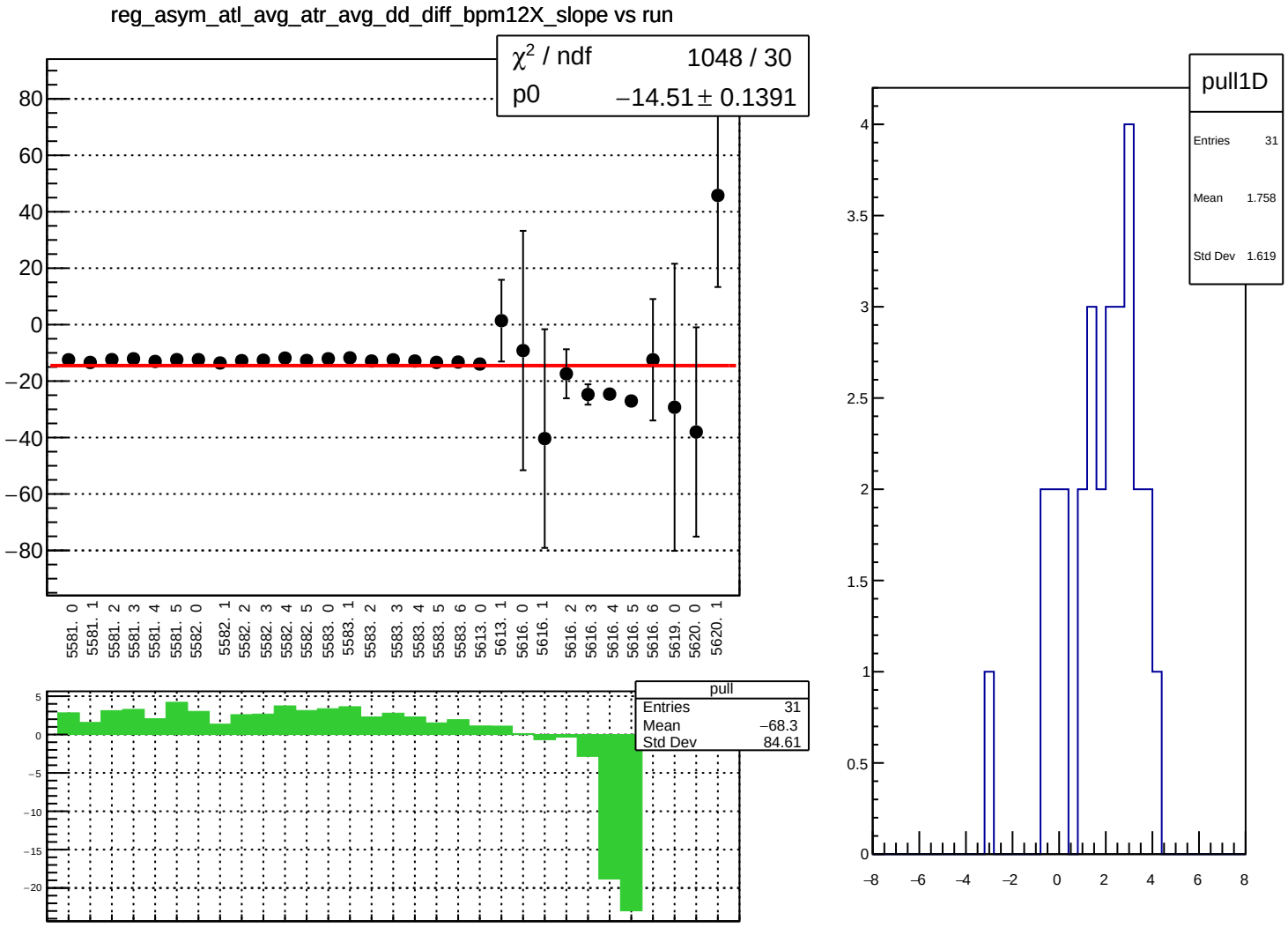

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 7.346e+04 / 30
p0 −46.72 ± 0.2321
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −0.36
Std Dev 14.74
150
100
50
0
−50
pull1D
Entries 31
Mean 1.028
Std Dev 2.852
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

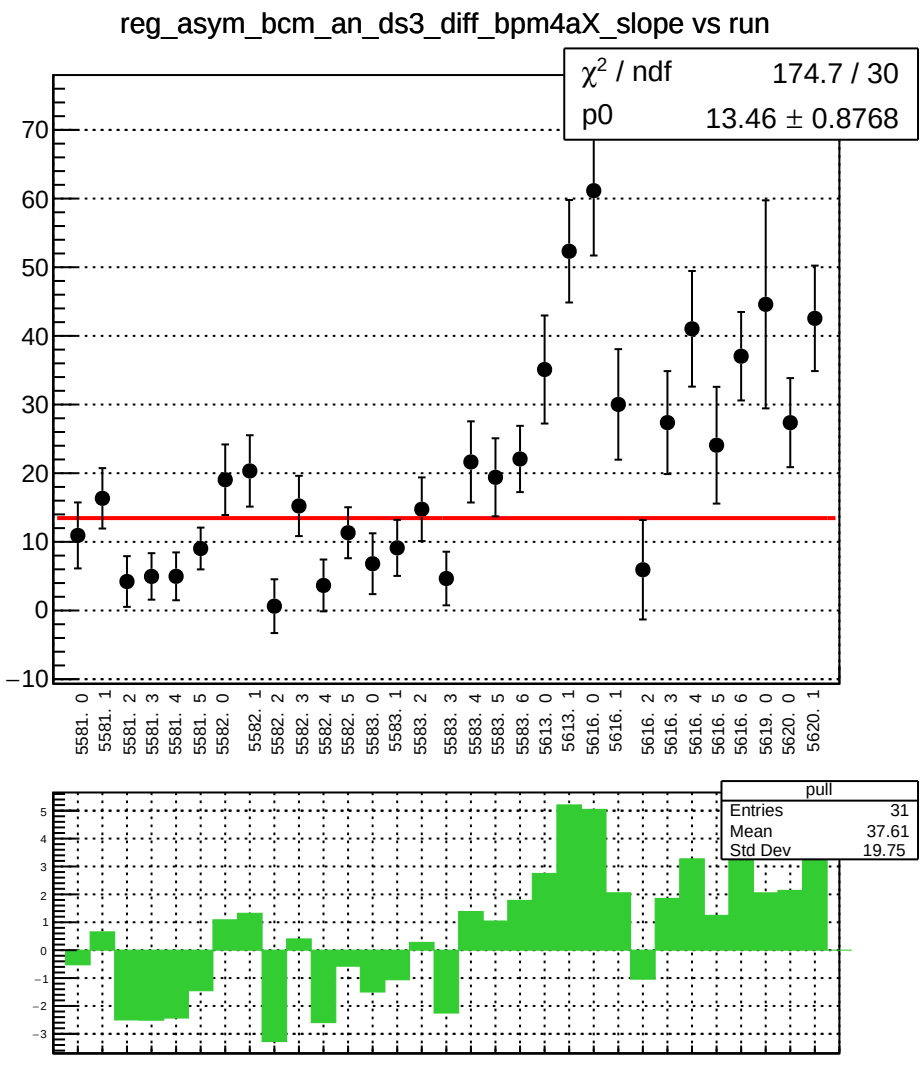

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aX_slope vs run
χ² / ndf 22.43 / 30
p0 −8.87 ± 5.063
5000
4000
3000
2000
1000
0
−1000
−2000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 50.33
Std Dev 19.07
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean −0.02135
Std Dev 0.8503
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

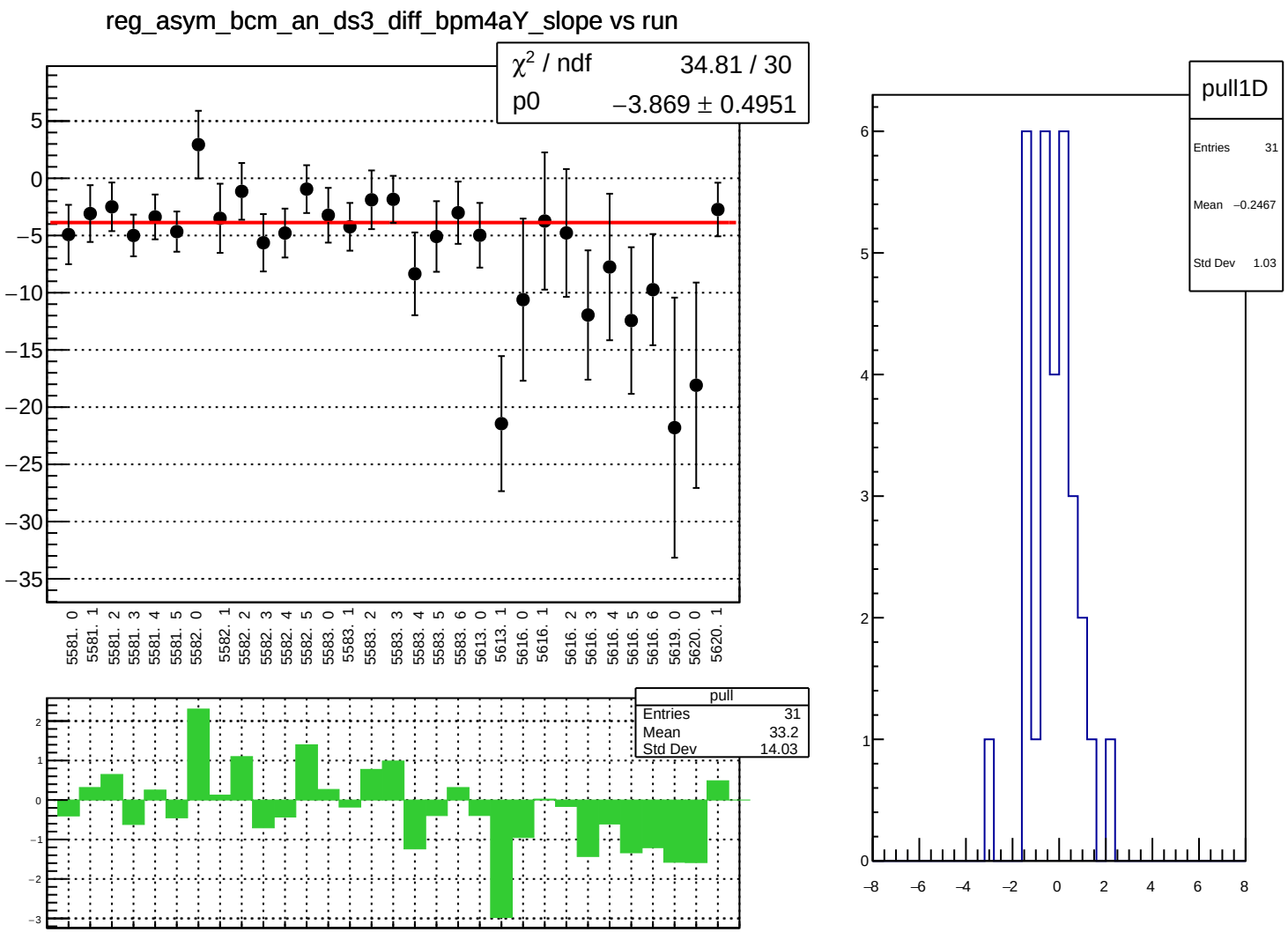

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 18.95 / 30
p0 −3.78 ± 2.78
2000
1000
0
−1000
−2000
−3000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 16.42
Std Dev 10.11
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 31
Mean −0.09163
Std Dev 0.7765
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

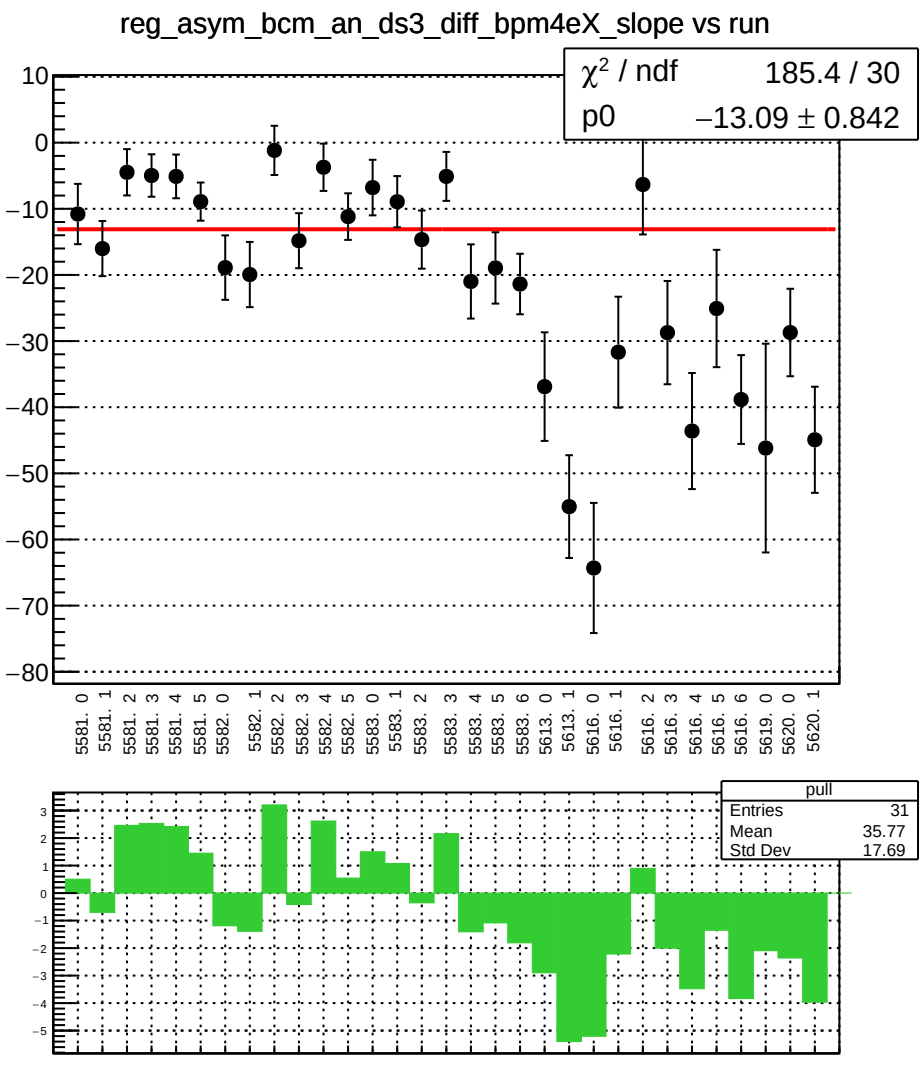

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 32.34 / 30
p0 −4.673 ± 4.857
2000
1000
0
−1000
−2000
−3000
−4000
−5000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 52.24
Std Dev 30.13
2
1
0
−1
−2
pull1D
Entries 31
Mean 0.05626
Std Dev 1.02
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

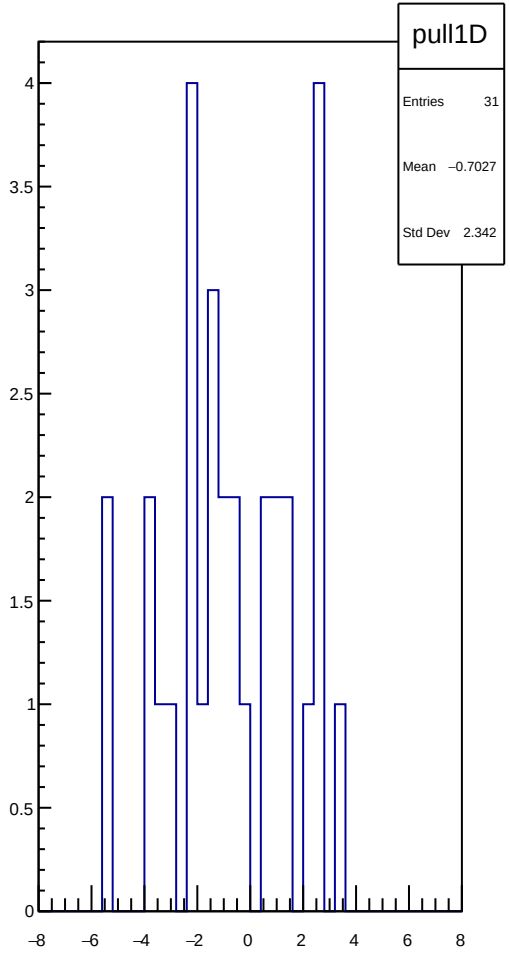

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 21.96 / 30
p0 10.68 ± 3.655
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 15
Std Dev 9.209
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.09343
Std Dev 0.8364
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

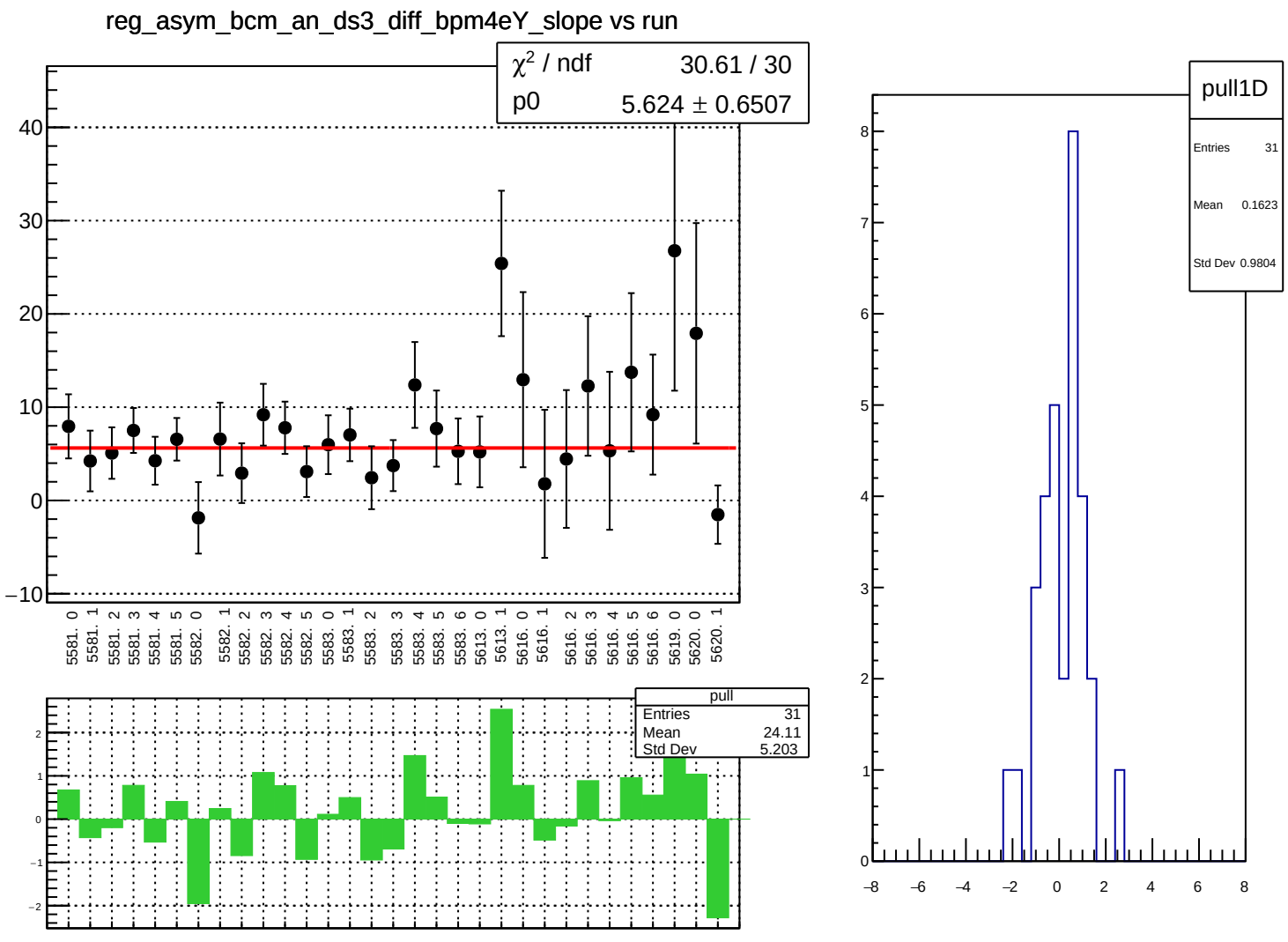

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 1048 / 30
p0 −14.51 ± 0.1391
80
60
40
20
0
−20
−40
−60
−80
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −68.3
Std Dev 84.61
5
0
−5
−10
−15
−20
pull1D
Entries 31
Mean 1.758
Std Dev 1.619
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

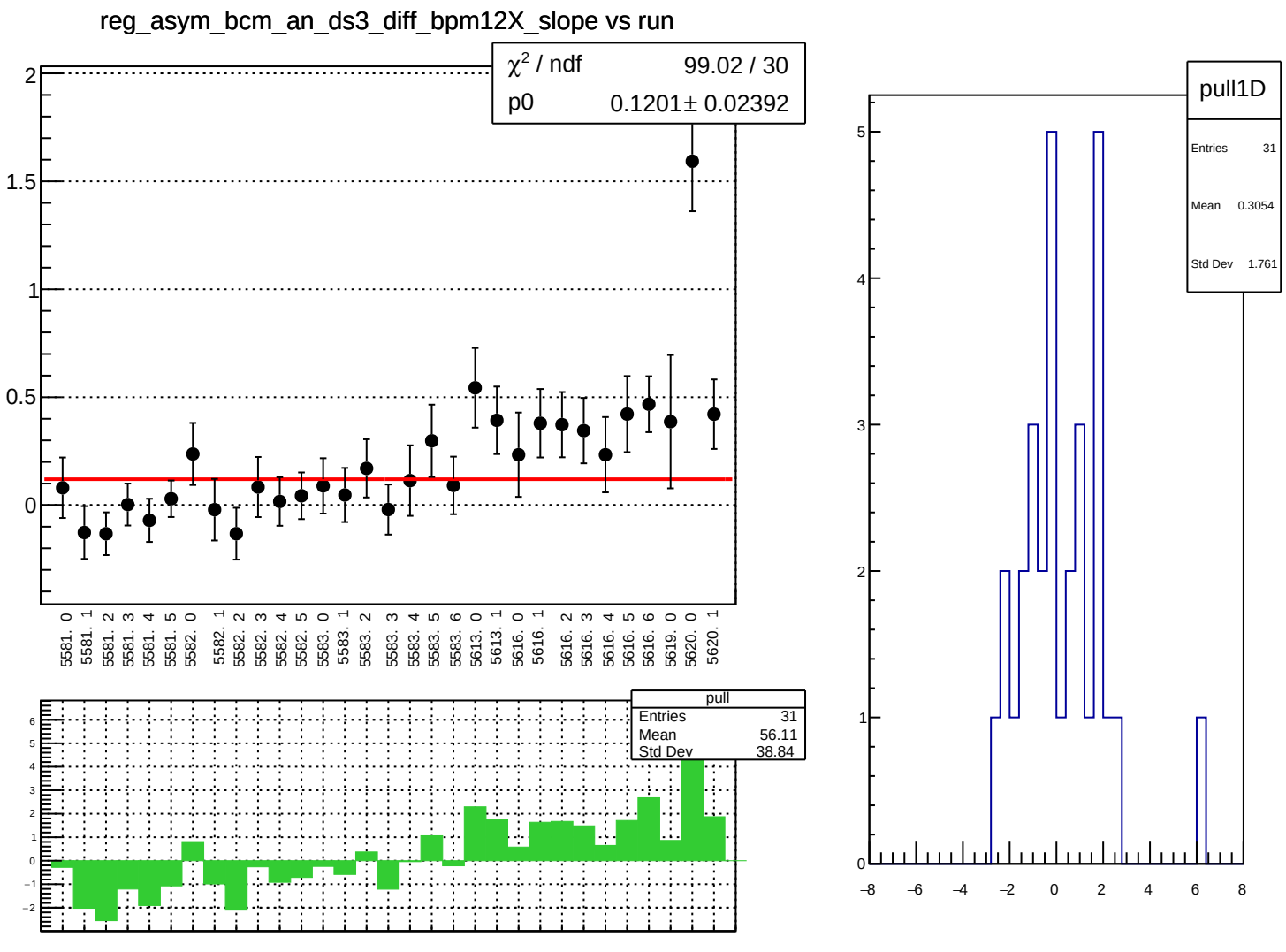

reg_asym_bcm_an_ds3_diff_bpm4aX_slope vs run
χ² / ndf 174.7 / 30
p0 13.46 ± 0.8768
70
60
50
40
30
20
10
0
−10
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 37.61
Std Dev 19.75
5
4
3
2
1
0
−1
−2
−3
pull1D
Entries 31
Mean 0.6234
Std Dev 2.29
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

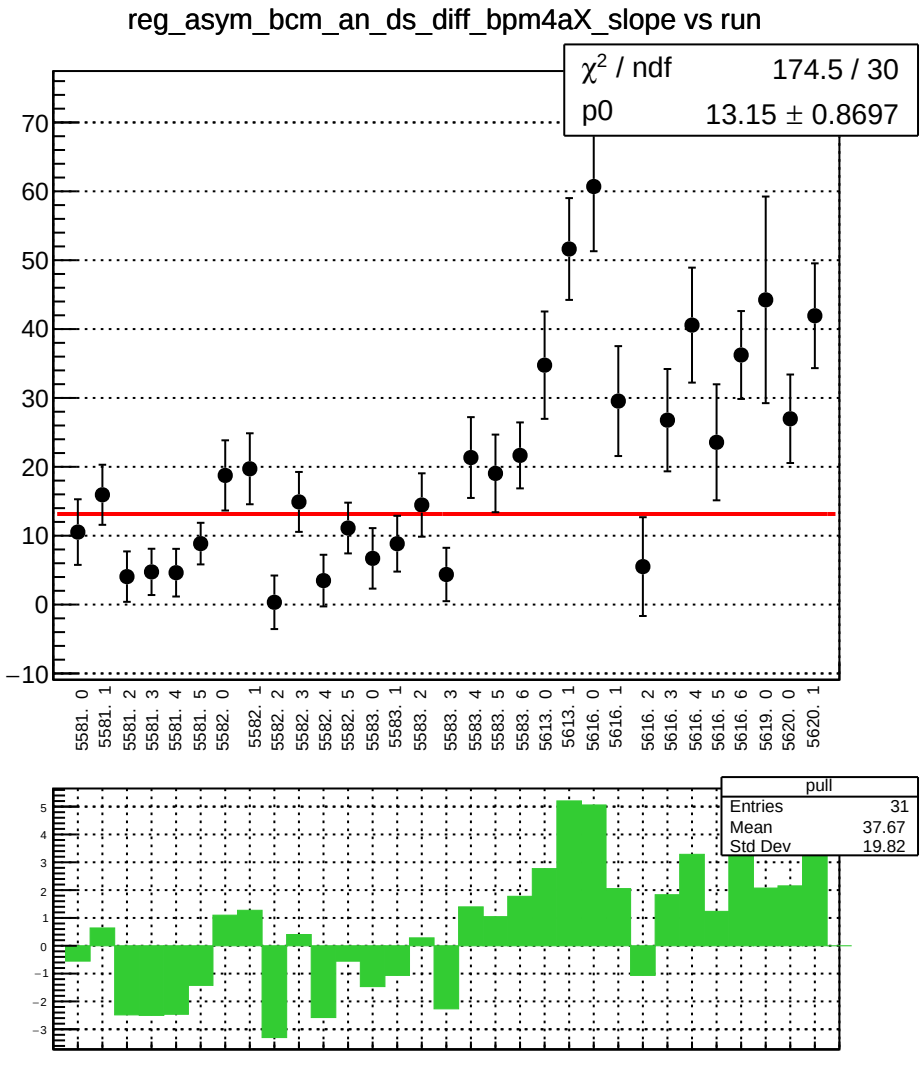

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 34.81 / 30
p0 −3.869 ± 0.4951
5
0
−5
−10
−15
−20
−25
−30
−35
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 33.2
Std Dev 14.03
2
1
0
−1
−2
−3
pull1D
Entries 31
Mean −0.2467
Std Dev 1.03
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

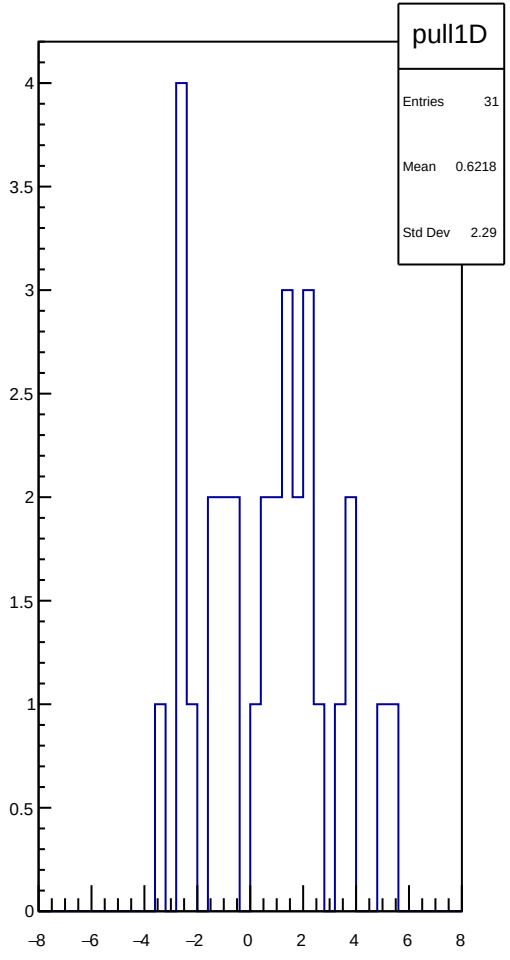

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 185.4 / 30
p0 −13.09 ± 0.842
pull
Entries 31
Mean 35.77
Std Dev 17.69

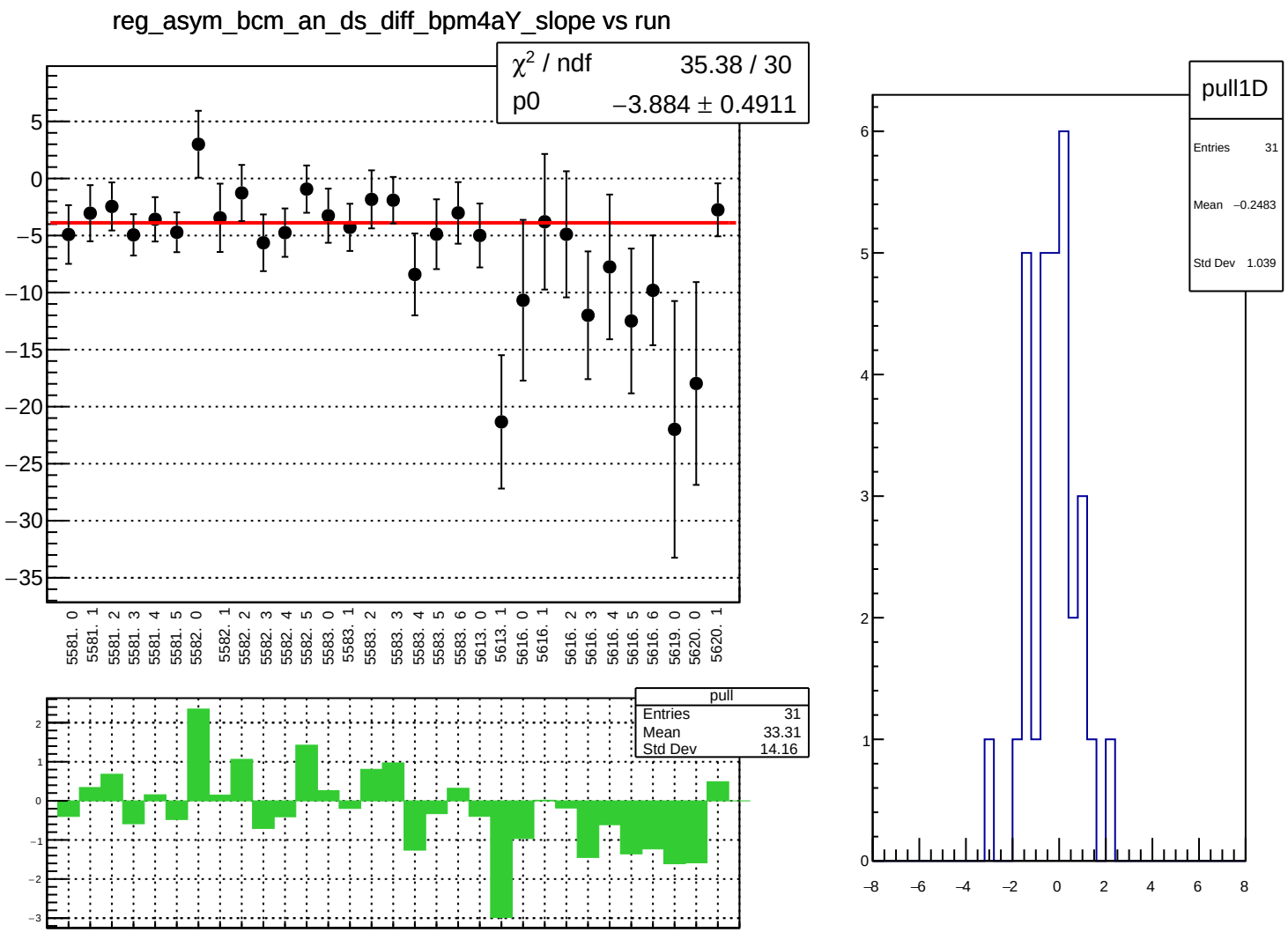

pull1D
Entries 31
Mean −0.7027
Std Dev 2.342

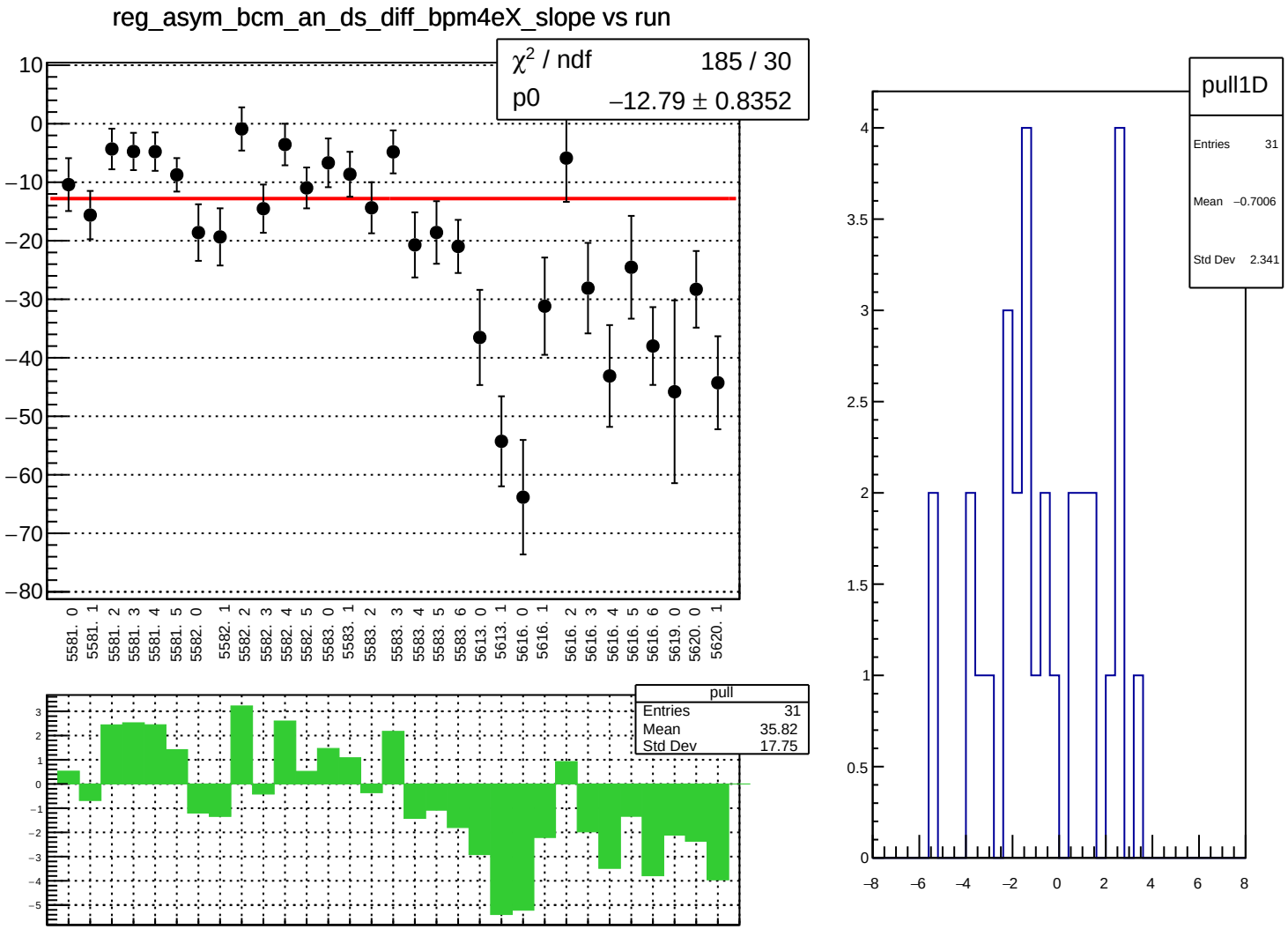

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 30.61 / 30
p0 5.624 ± 0.6507
40
30
20
10
0
−10
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 24.11
Std Dev 5.203
2
1
0
−1
−2
pull1D
Entries 31
Mean 0.1623
Std Dev 0.9804
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

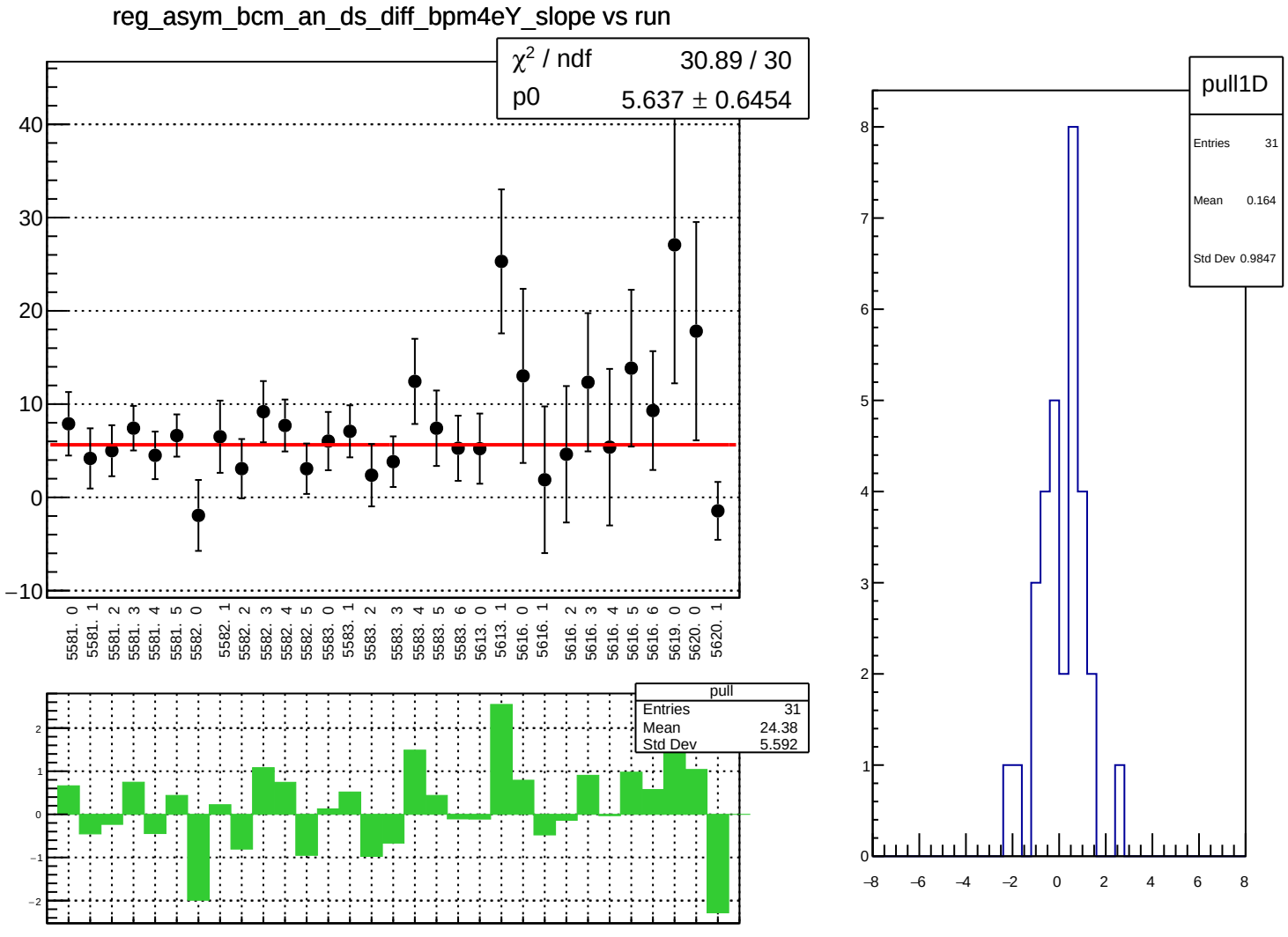

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 99.02 / 30
p0 0.1201± 0.02392
2
1.5
1
0.5
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 56.11
Std Dev 38.84
6
5
4
3
2
1
0
−1
−2
pull1D
Entries 31
Mean 0.3054
Std Dev 1.761
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

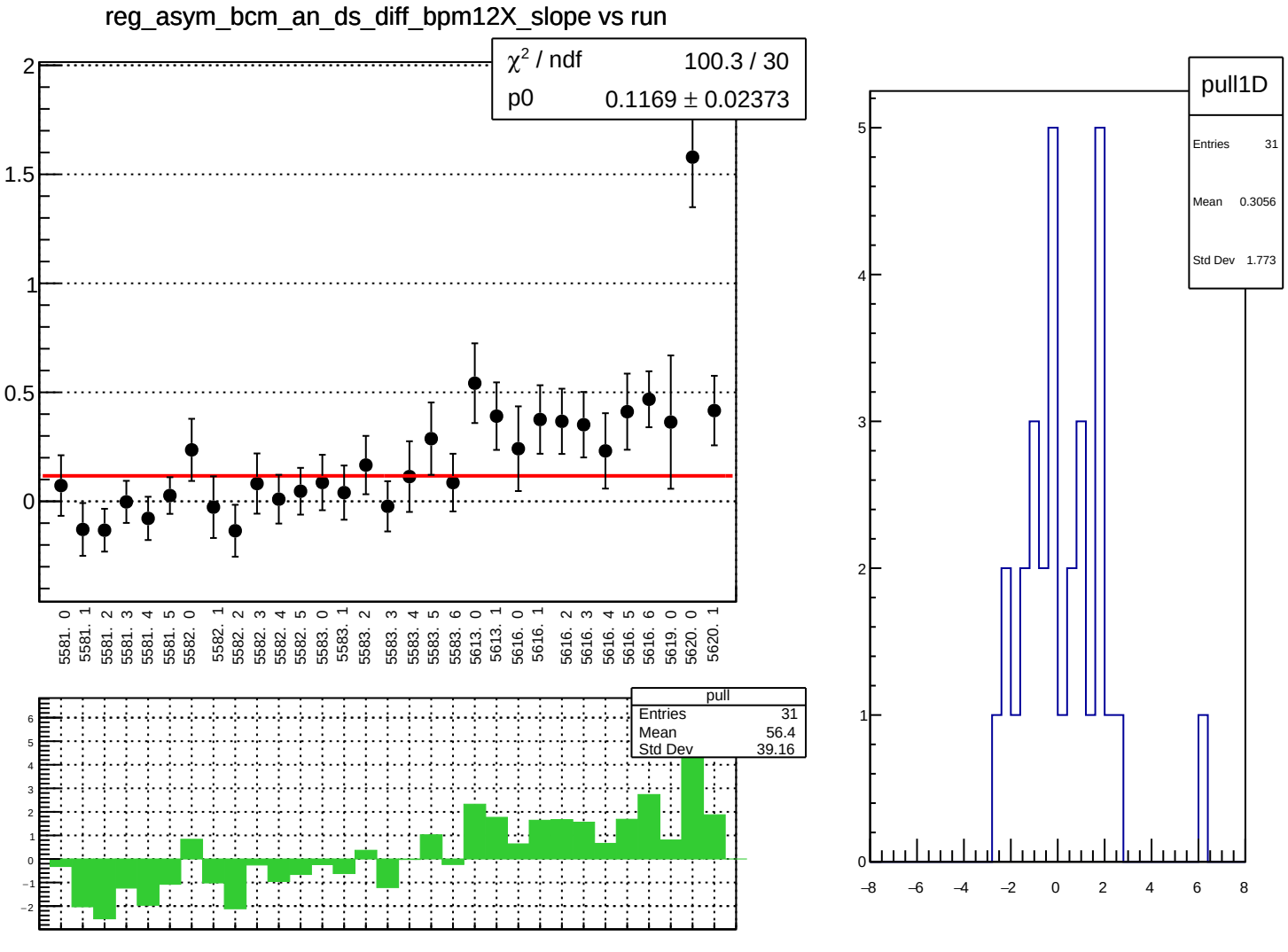

reg_asym_bcm_an_ds_diff_bpm4aX_slope vs run
χ² / ndf 174.5 / 30
p0 13.15 ± 0.8697
pull
Entries 31
Mean 37.67
Std Dev 19.82

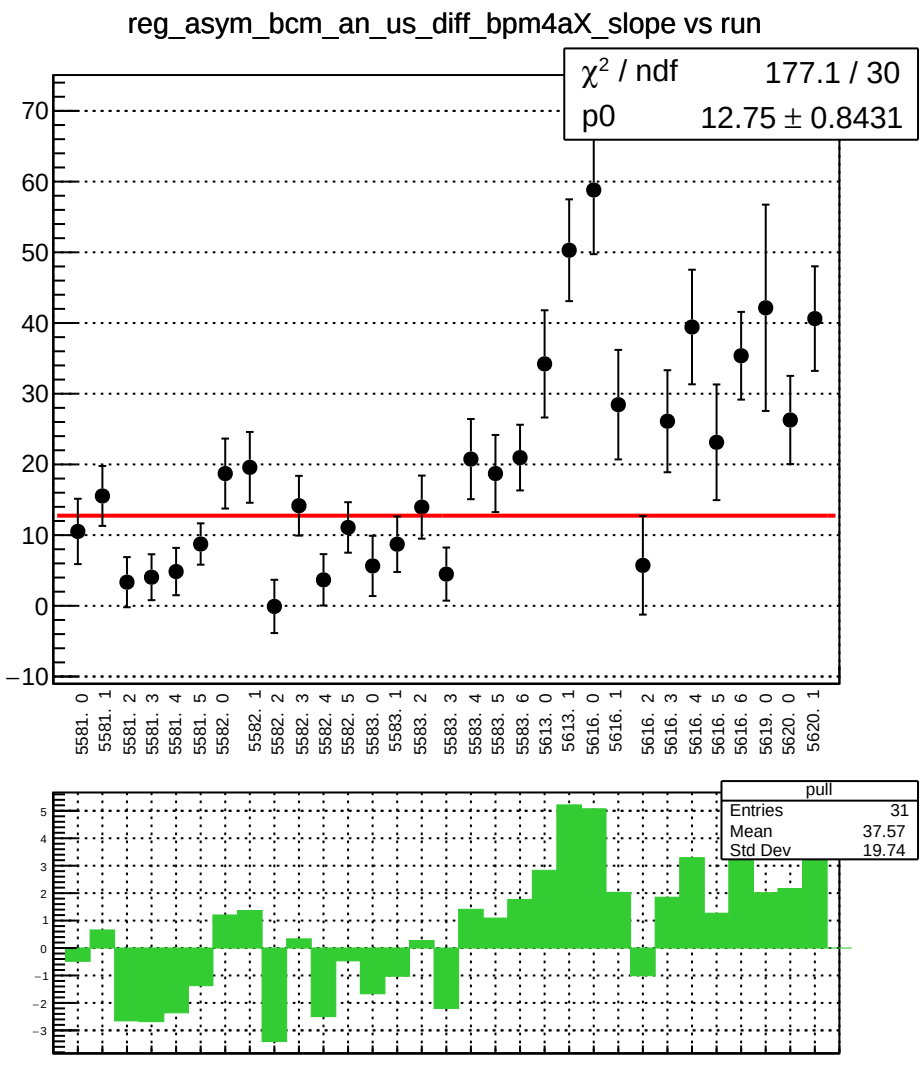

pull1D
Entries 31
Mean 0.6218
Std Dev 2.29

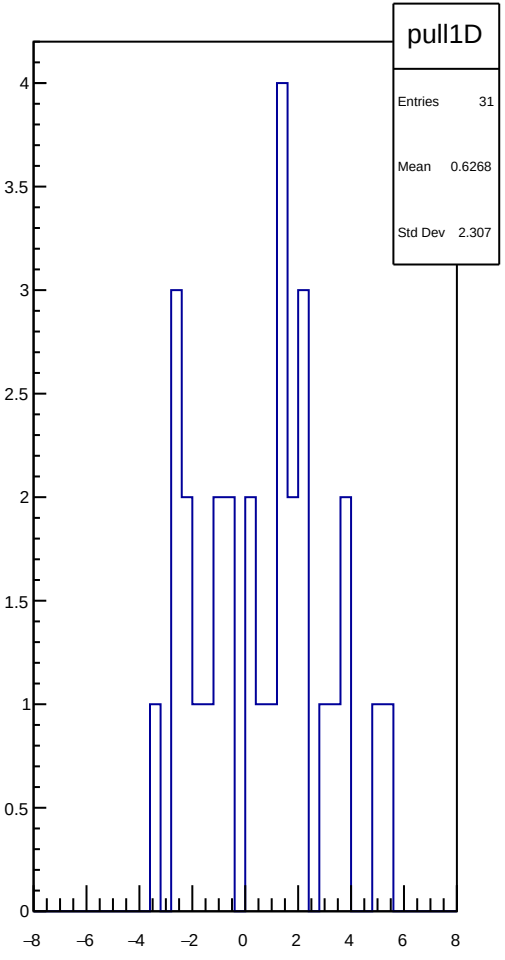

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 35.38 / 30
p0 −3.884 ± 0.4911
pull
Entries 31
Mean 33.31
Std Dev 14.16
pull1D
Entries 31
Mean −0.2483
Std Dev 1.039

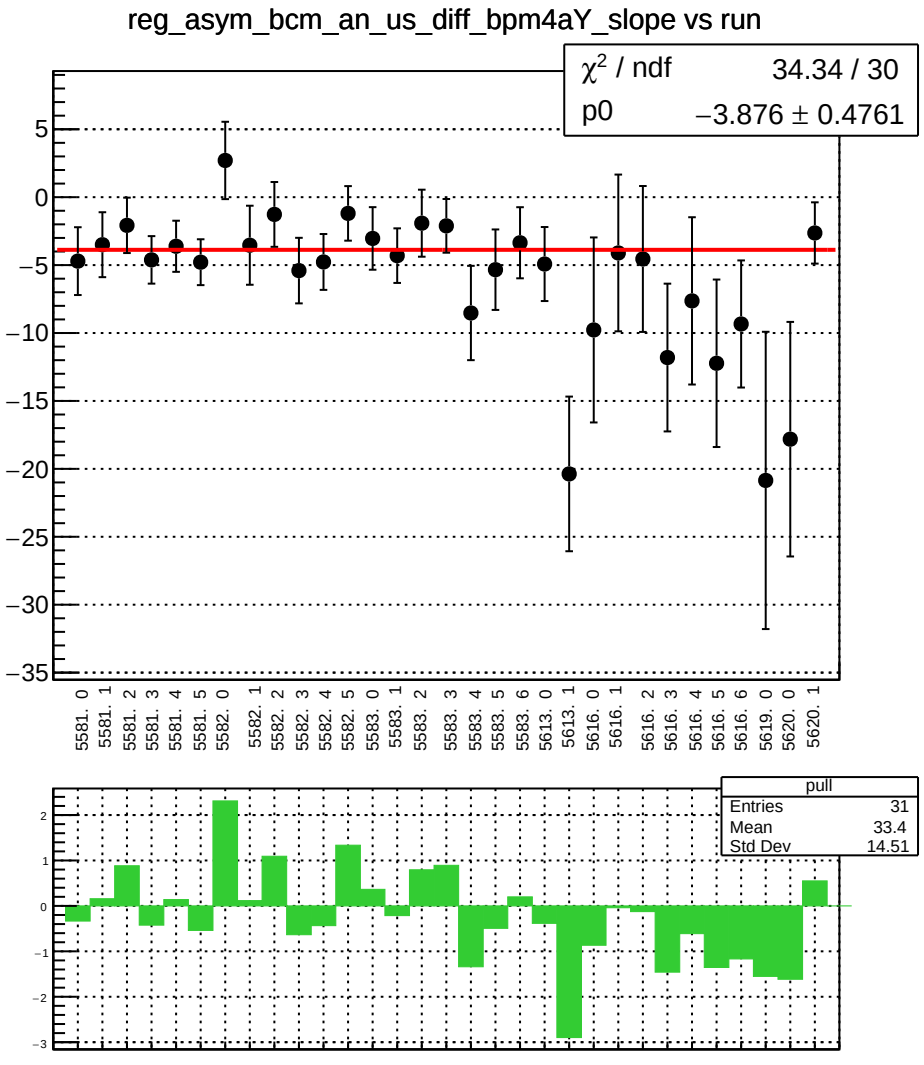

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 185 / 30
p0 −12.79 ± 0.8352
10
0
−10
−20
−30
−40
−50
−60
−70
−80
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 35.82
Std Dev 17.75
3
2
1
0
−1
−2
−3
−4
−5
pull1D
Entries 31
Mean −0.7006
Std Dev 2.341
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

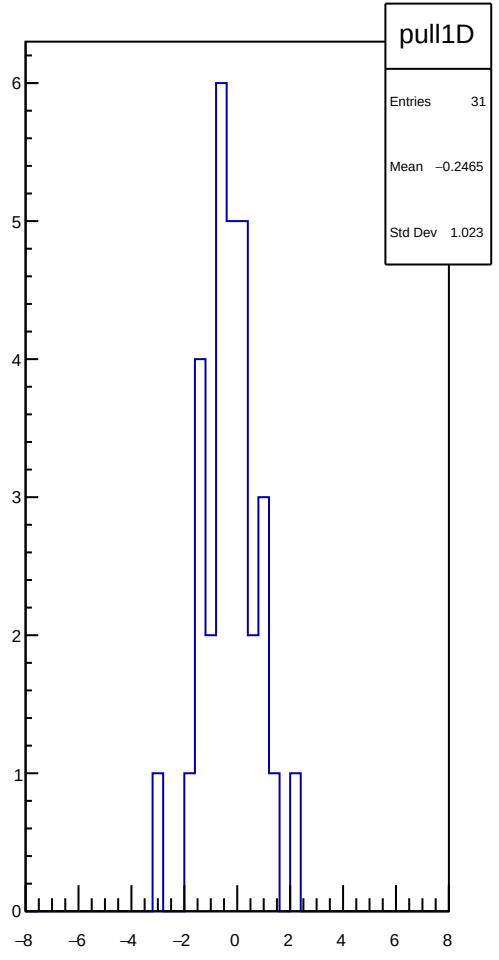

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 30.89 / 30
p0 5.637 ± 0.6454
40
30
20
10
0
−10
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 24.38
Std Dev 5.592
2
1
0
−1
−2
pull1D
Entries 31
Mean 0.164
Std Dev 0.9847
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

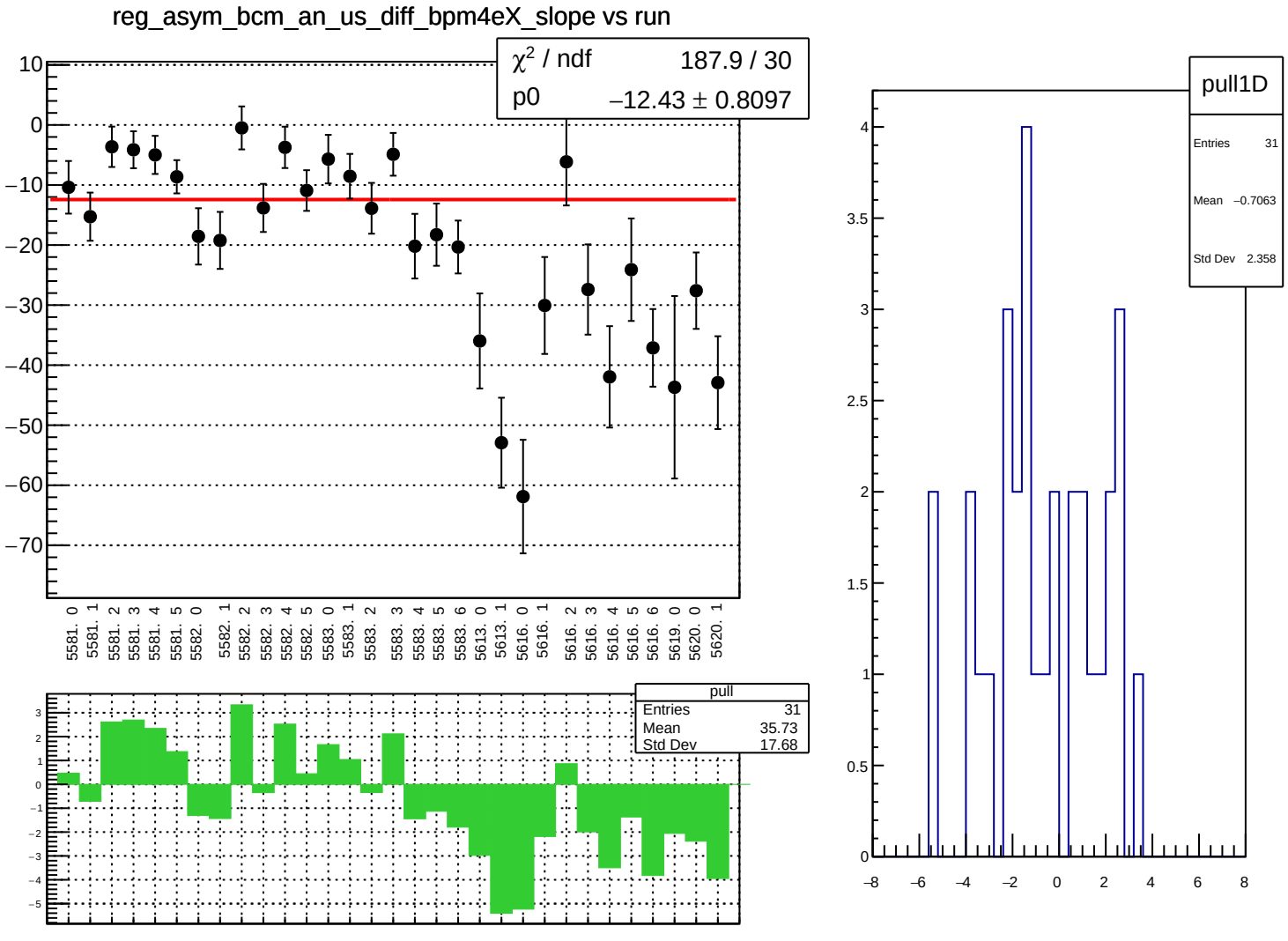

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 100.3 / 30
p0 0.1169 ± 0.02373
2
1.5
1
0.5
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 56.4
Std Dev 39.16
6
5
4
3
2
1
0
−1
−2
pull1D
Entries 31
Mean 0.3056
Std Dev 1.773
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

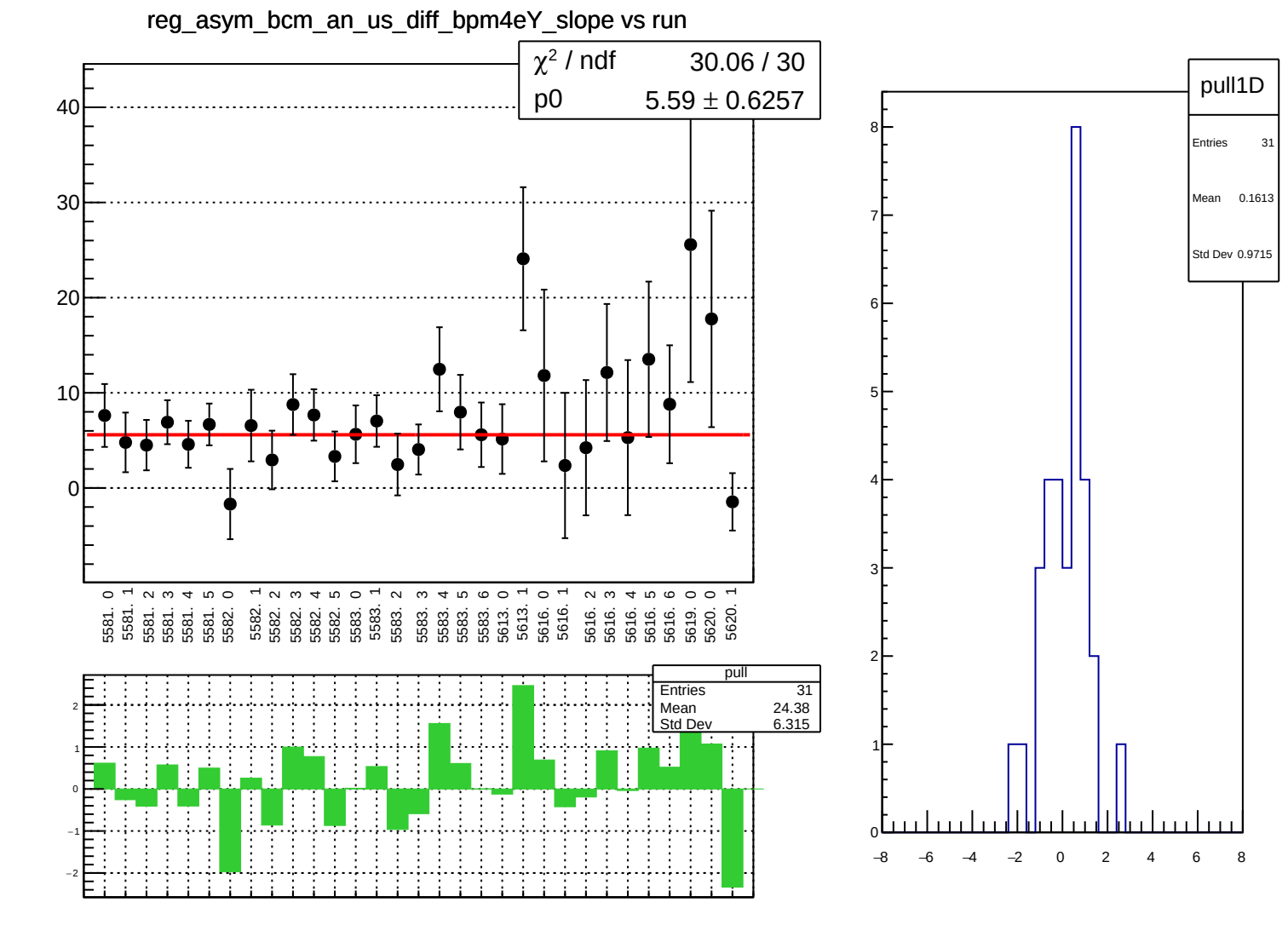

reg_asym_bcm_an_us_diff_bpm4aX_slope vs run
χ² / ndf 177.1 / 30
p0 12.75 ± 0.8431
pull
Entries 31
Mean 37.57
Std Dev 19.74

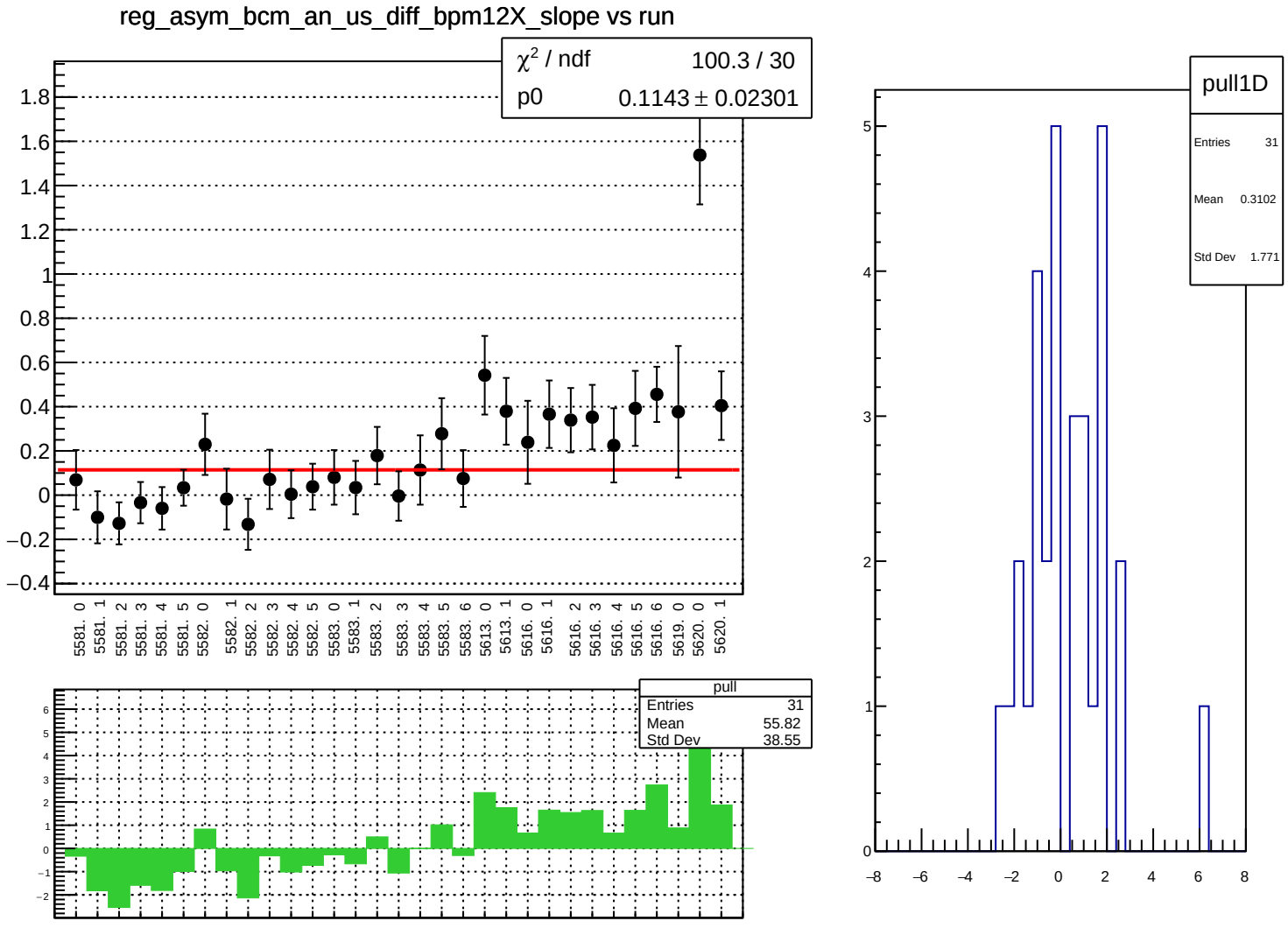

pull1D
Entries 31
Mean 0.6268
Std Dev 2.307

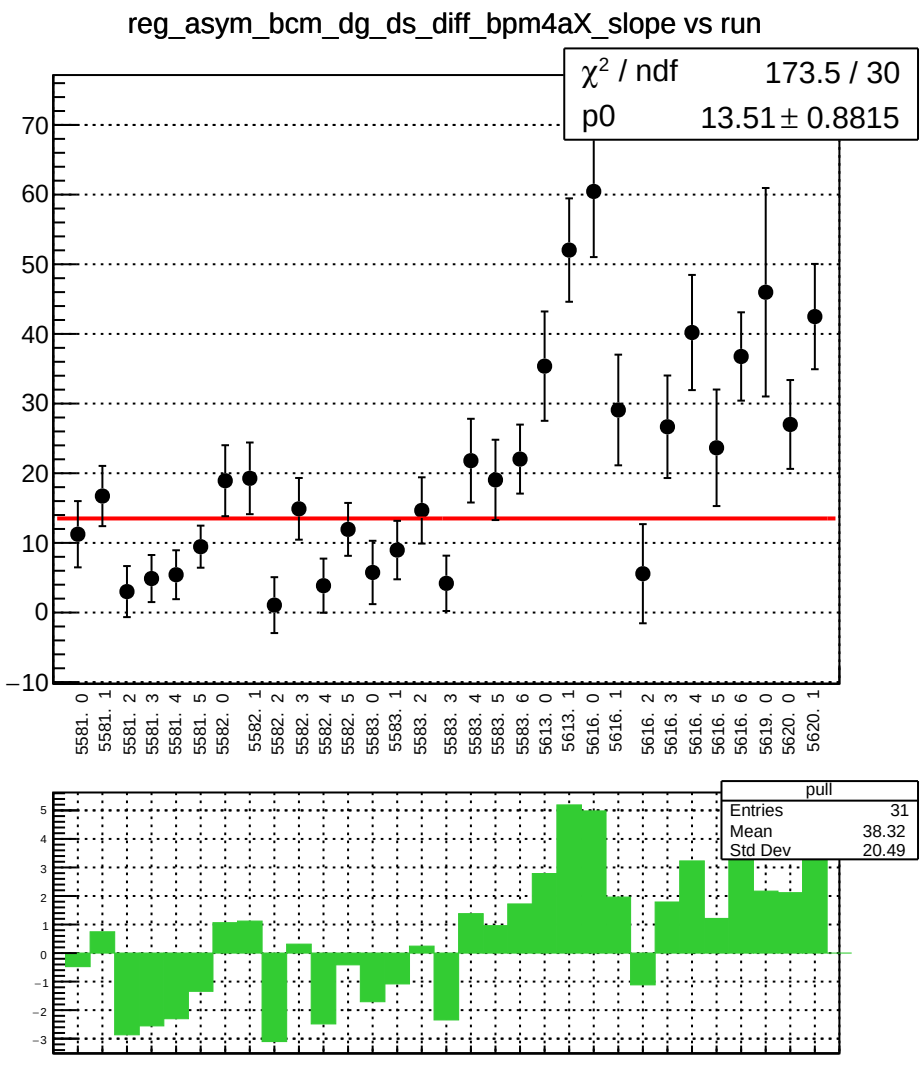

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 34.34 / 30
p0 −3.876 ± 0.4761
pull
Entries 31
Mean 33.4
Std Dev 14.51

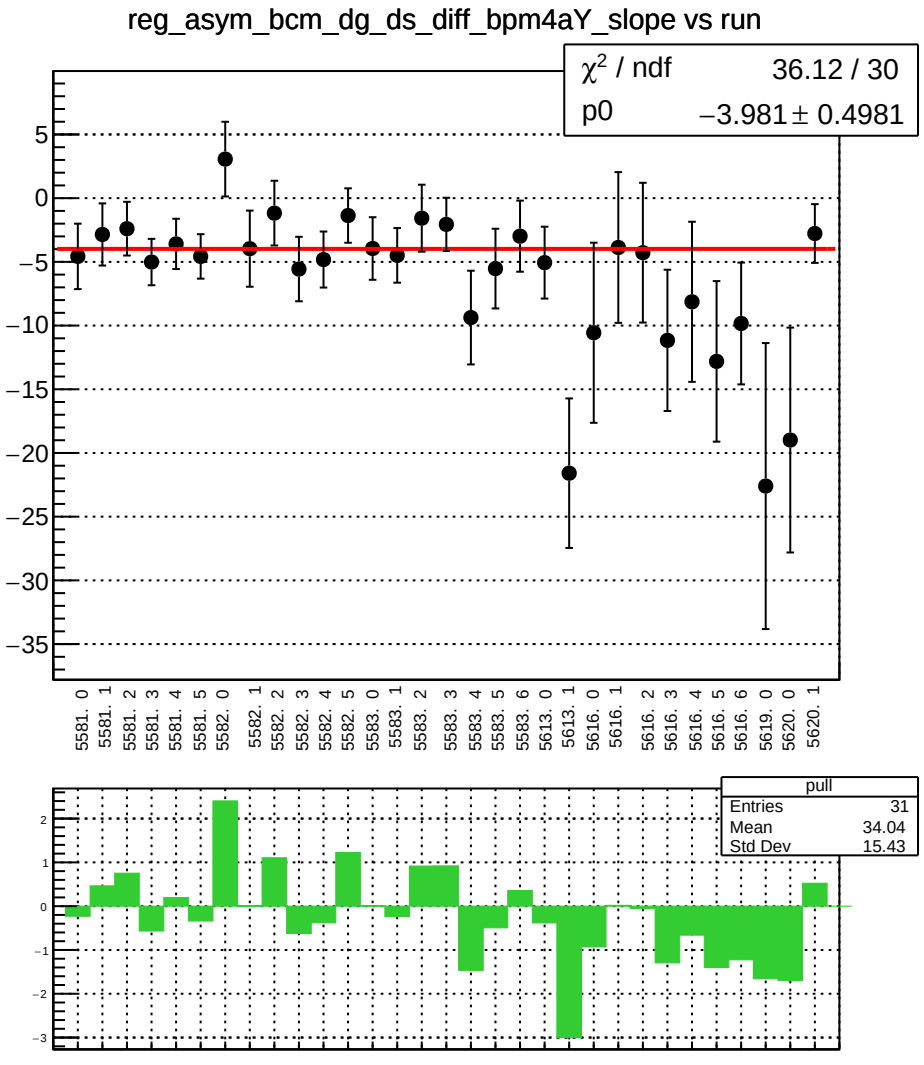

pull1D
Entries 31
Mean −0.2465
Std Dev 1.023

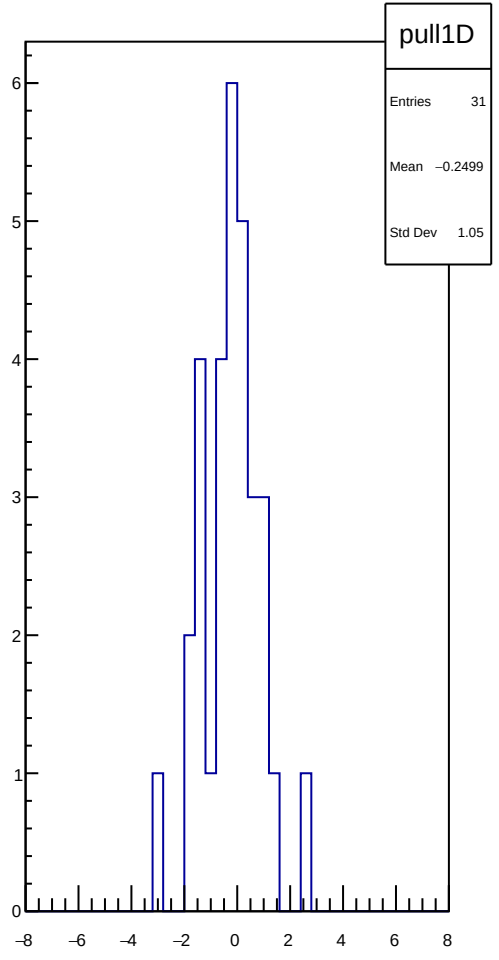

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 187.9 / 30
p0 −12.43 ± 0.8097
pull
Entries 31
Mean 35.73
Std Dev 17.68
pull1D
Entries 31
Mean −0.7063
Std Dev 2.358

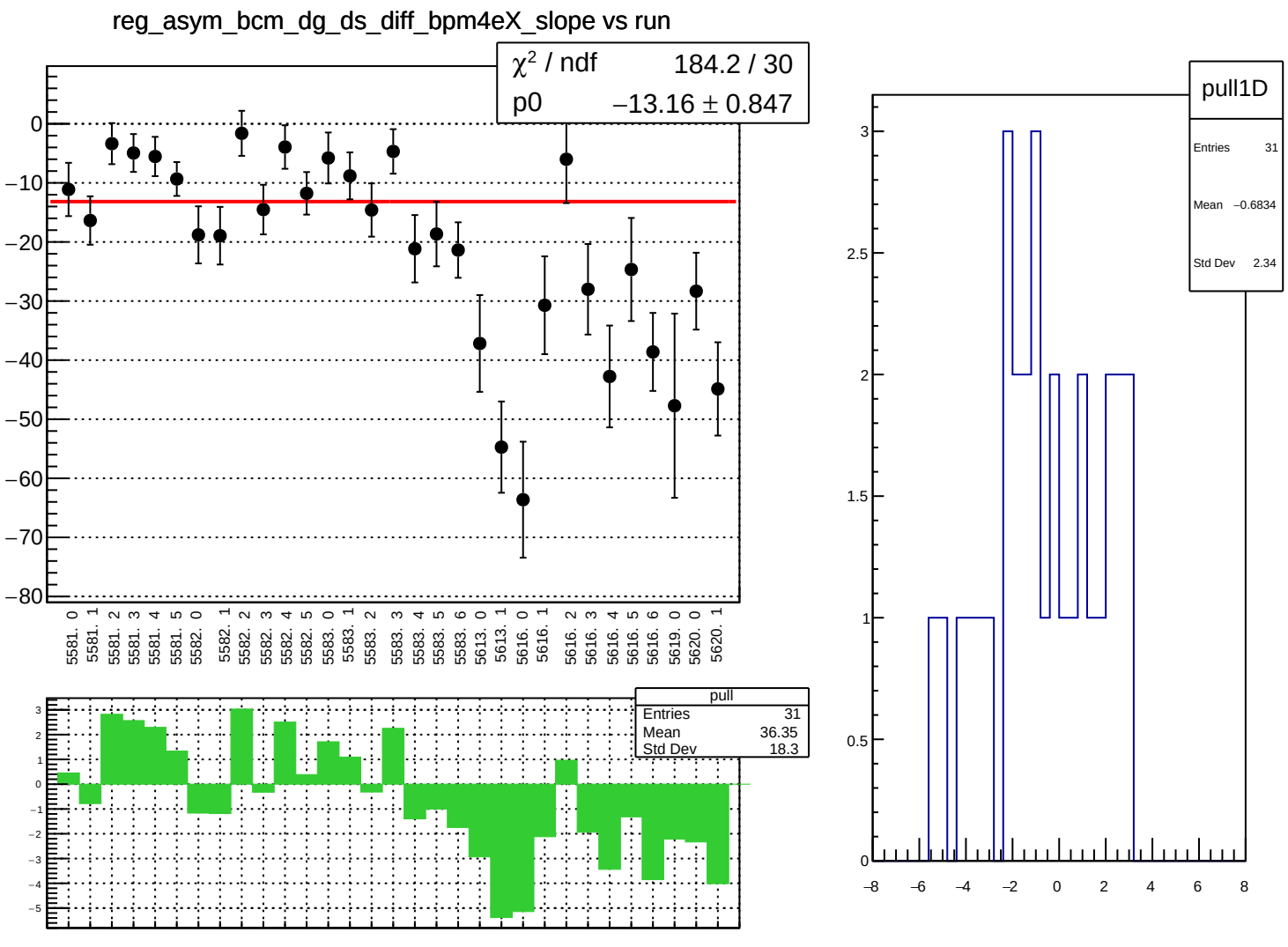

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 30.06 / 30
p0 5.59 ± 0.6257
40
30
20
10
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 24.38
Std Dev 6.315
2
1
0
−1
−2
pull1D
Entries 31
Mean 0.1613
Std Dev 0.9715
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

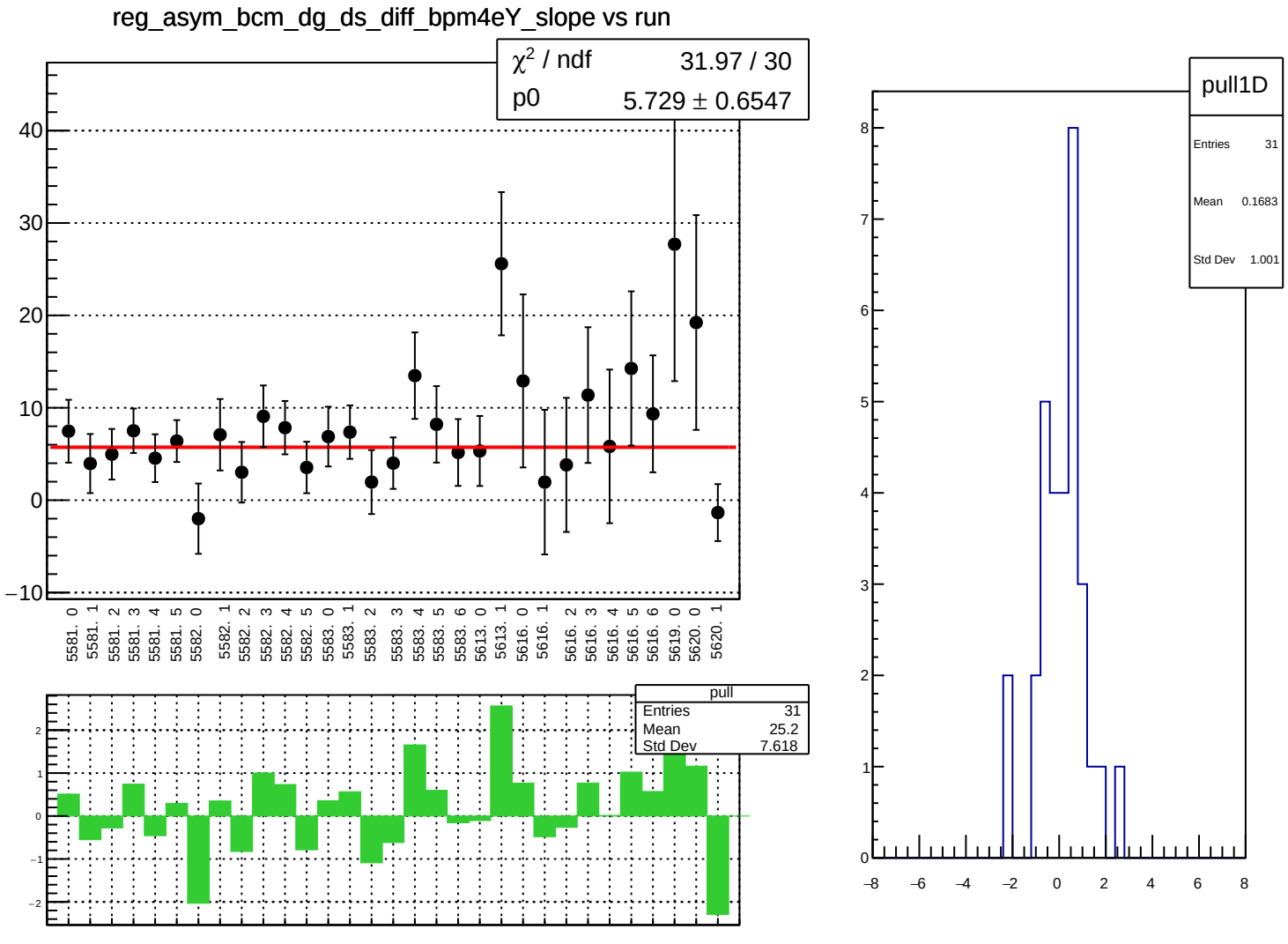

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 100.3 / 30
p0 0.1143 ± 0.02301
pull
Entries 31
Mean 55.82
Std Dev 38.55
pull1D
Entries 31
Mean 0.3102
Std Dev 1.771

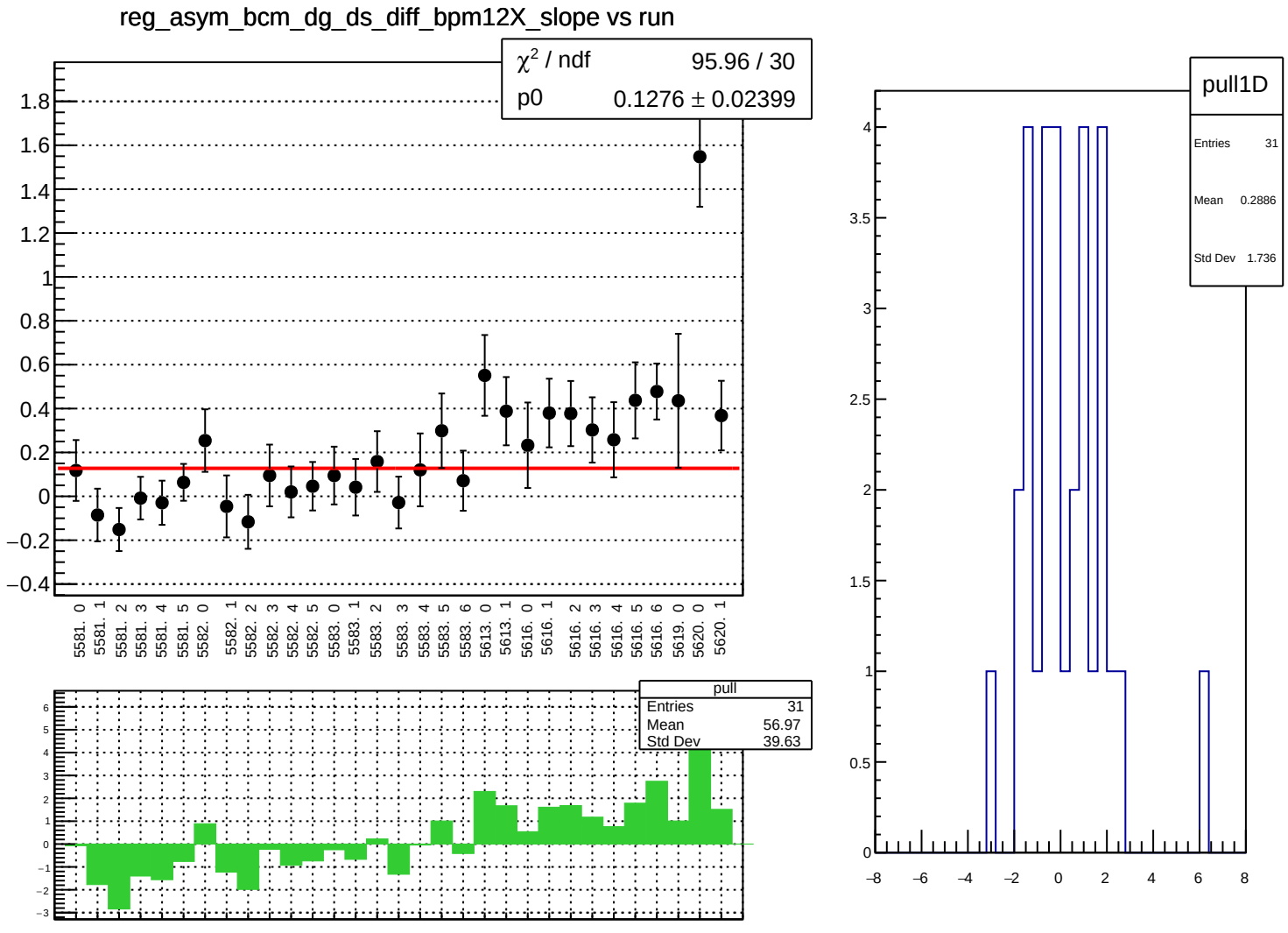

reg_asym_bcm_dg_ds_diff_bpm4aX_slope vs run
χ² / ndf 173.5 / 30
p0 13.51 ± 0.8815
70
60
50
40
30
20
10
0
−10
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 38.32
Std Dev 20.49
5
4
3
2
1
0
−1
−2
−3
pull1D
Entries 31
Mean 0.6037
Std Dev 2.287
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

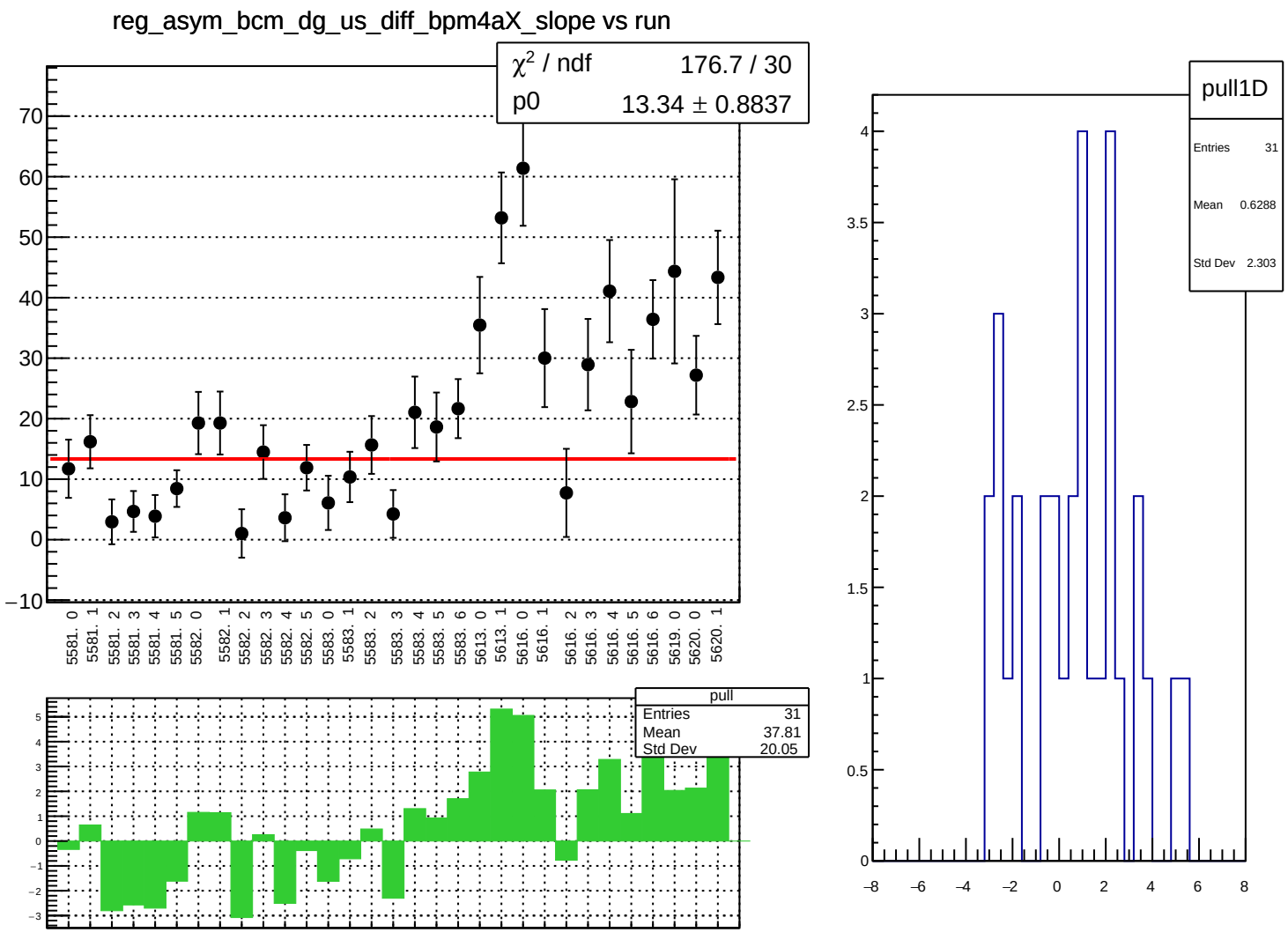

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 36.12 / 30
p0 −3.981 ± 0.4981
pull
Entries 31
Mean 34.04
Std Dev 15.43

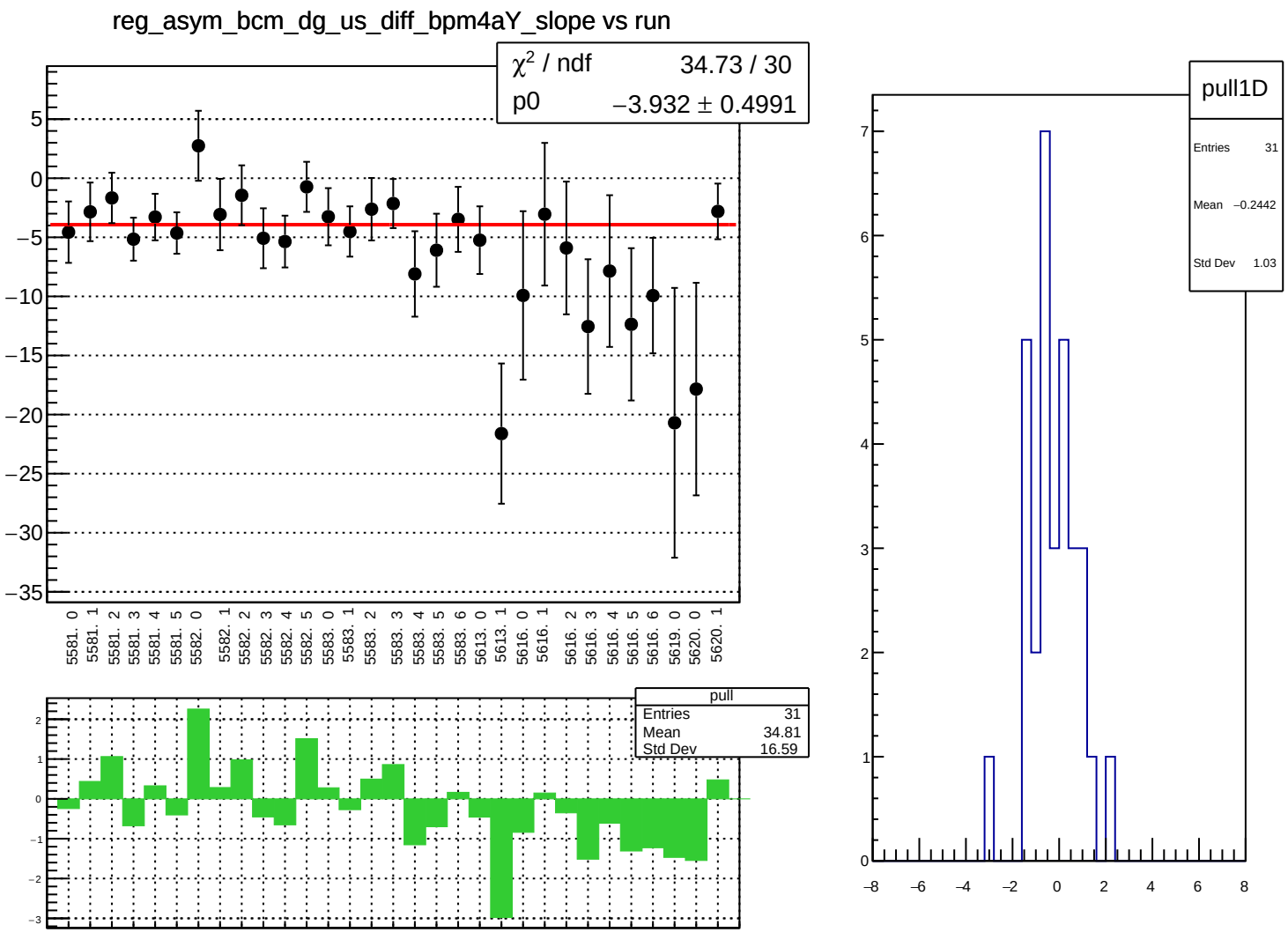

pull1D
Entries 31
Mean −0.2499
Std Dev 1.05

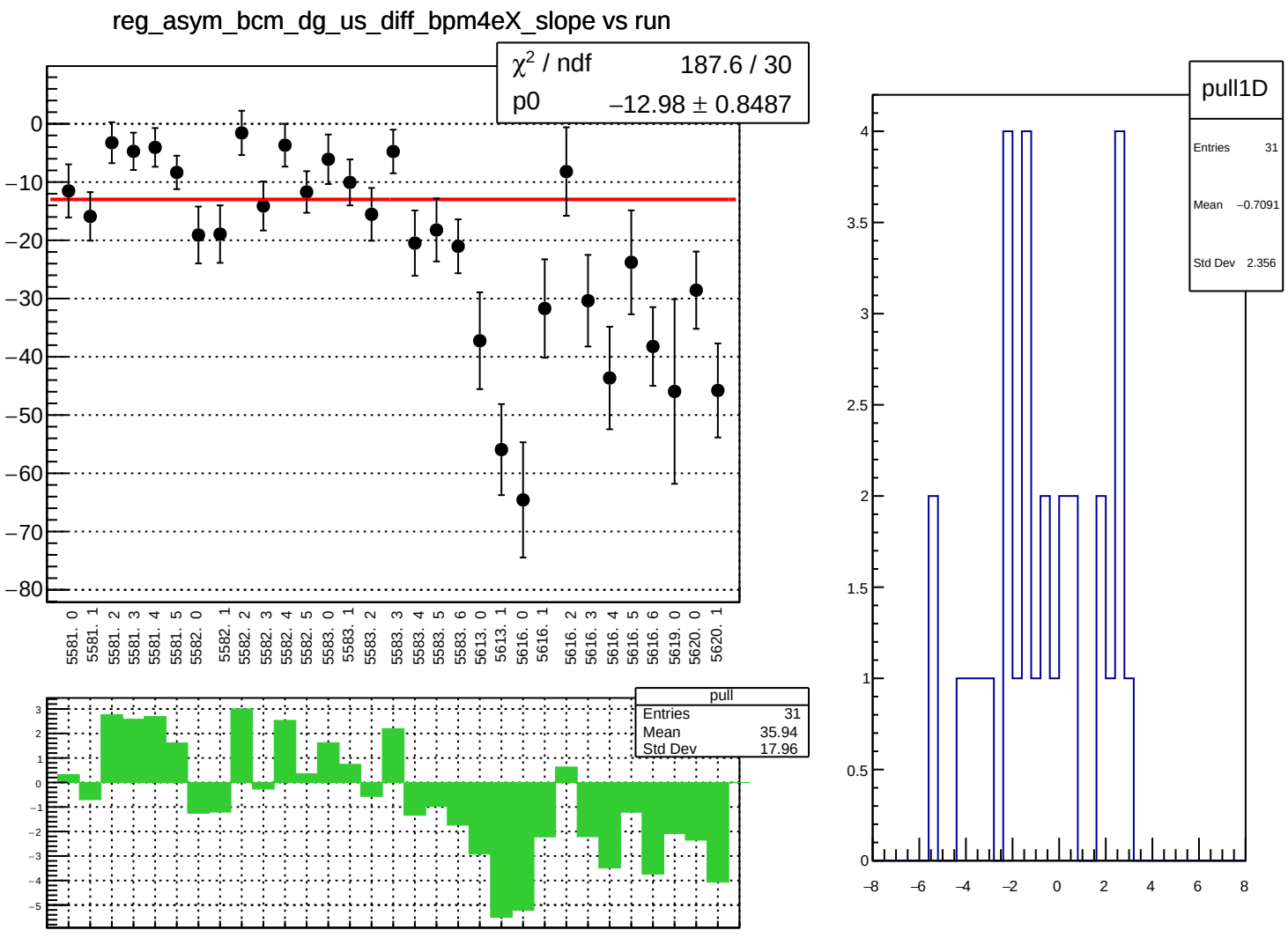

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 184.2 / 30
p0 −13.16 ± 0.847
0
−10
−20
−30
−40
−50
−60
−70
−80
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 36.35
Std Dev 18.3
3
2
1
0
−1
−2
−3
−4
−5
pull1D
Entries 31
Mean −0.6834
Std Dev 2.34
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 31.97 / 30
p0 5.729 ± 0.6547
40
30
20
10
0
−10
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 25.2
Std Dev 7.618
2
1
0
−1
−2
pull1D
Entries 31
Mean 0.1683
Std Dev 1.001
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 95.96 / 30
p0 0.1276 ± 0.02399
pull
Entries 31
Mean 56.97
Std Dev 39.63
pull1D
Entries 31
Mean 0.2886
Std Dev 1.736


reg_asym_bcm_dg_us_diff_bpm4aX_slope vs run
χ² / ndf 176.7 / 30
p0 13.34 ± 0.8837
70
60
50
40
30
20
10
0
−10
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 37.81
Std Dev 20.05
5
4
3
2
1
0
−1
−2
−3
pull1D
Entries 31
Mean 0.6288
Std Dev 2.303
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 34.73 / 30
p0 −3.932 ± 0.4991
pull
Entries 31
Mean 34.81
Std Dev 16.59
pull1D
Entries 31
Mean −0.2442
Std Dev 1.03


reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 187.6 / 30
p0 −12.98 ± 0.8487
0
−10
−20
−30
−40
−50
−60
−70
−80
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 35.94
Std Dev 17.96
3
2
1
0
−1
−2
−3
−4
−5
pull1D
Entries 31
Mean −0.7091
Std Dev 2.356
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
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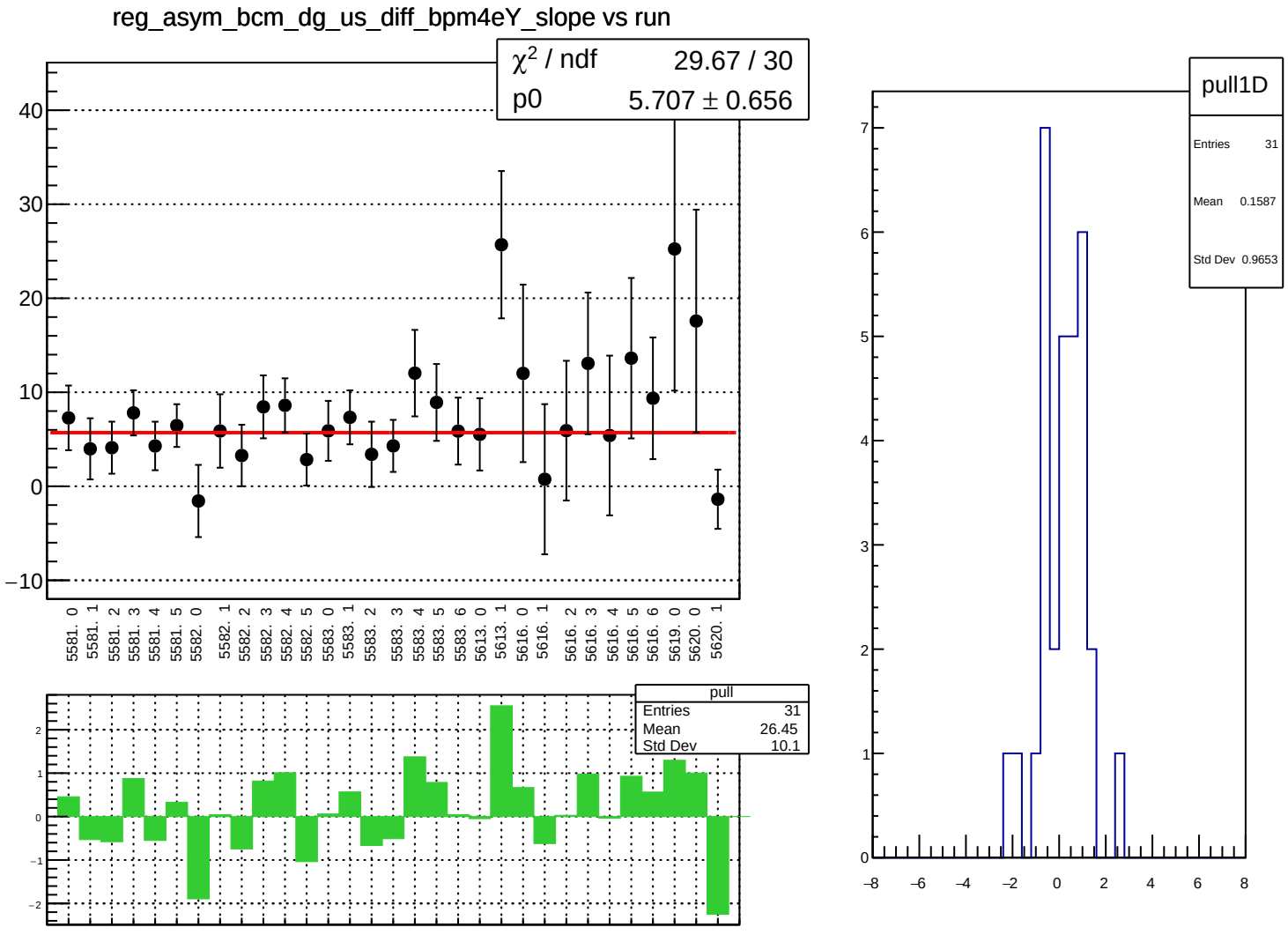
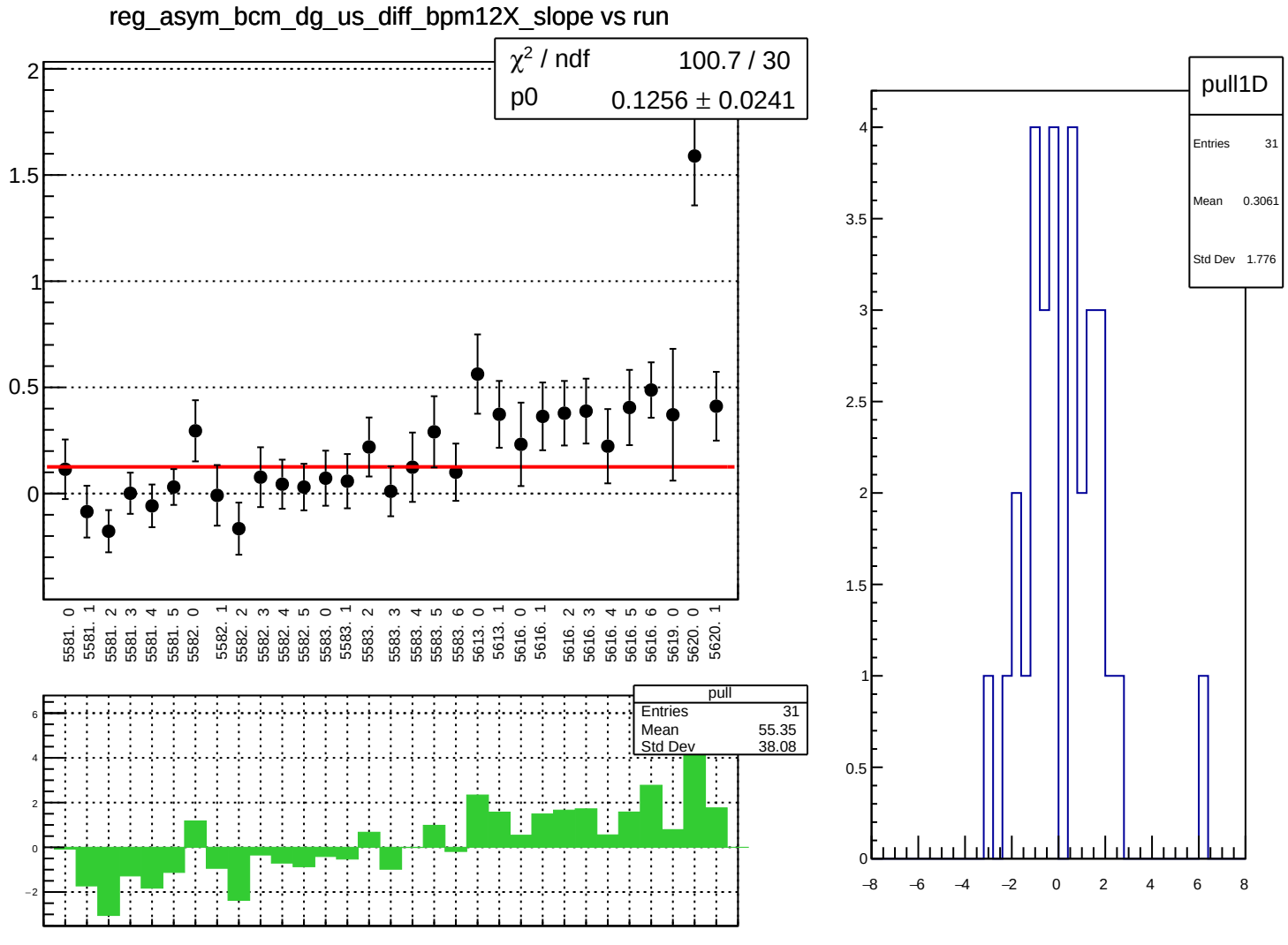
−4
−2
0
2
4
6
8


reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 29.67 / 30
p0 5.707 ± 0.656
40
30
20
10
0
−10
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 26.45
Std Dev 10.1
2
1
0
−1
−2
pull1D
Entries 31
Mean 0.1587
Std Dev 0.9653
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 100.7 / 30
p0 0.1256 ± 0.0241
2
1.5
1
0.5
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 55.35
Std Dev 38.08
6
4
2
0
−2
pull1D
Entries 31
Mean 0.3061
Std Dev 1.776
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8