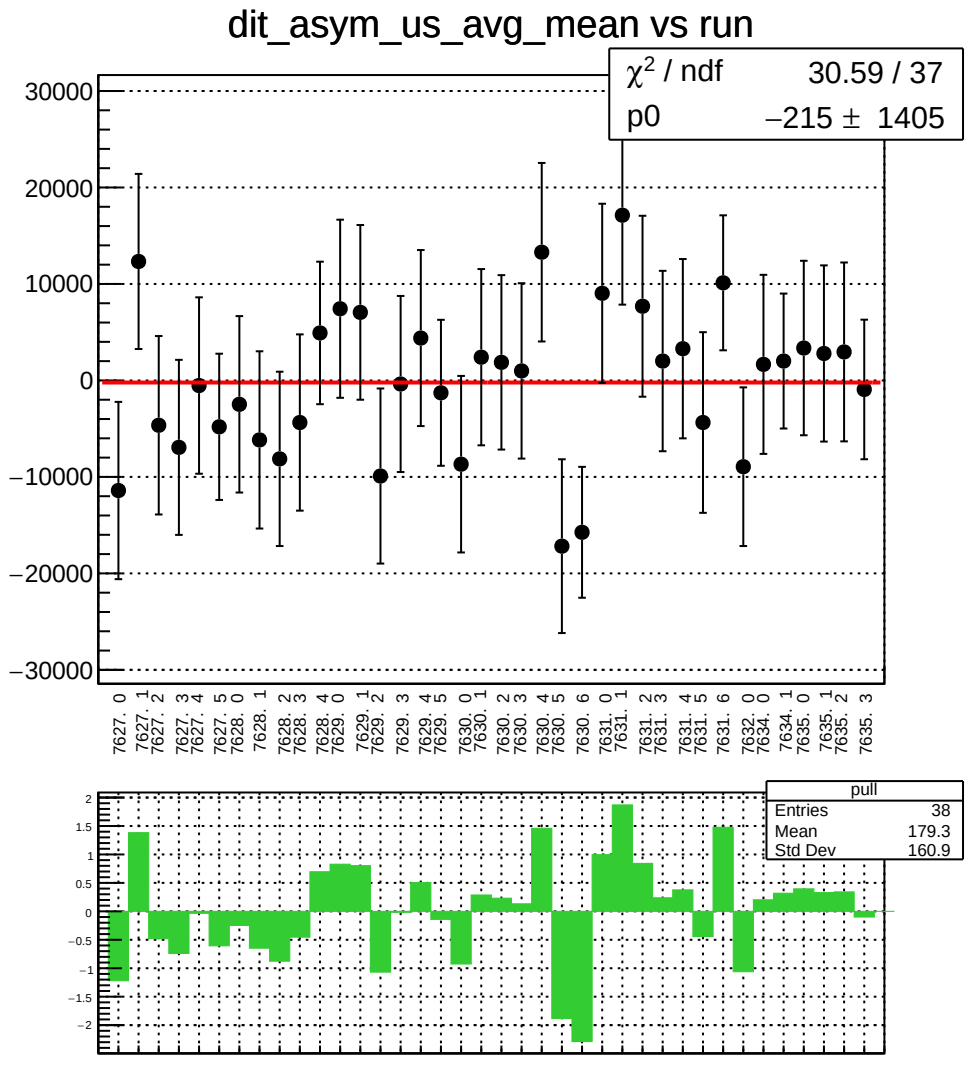
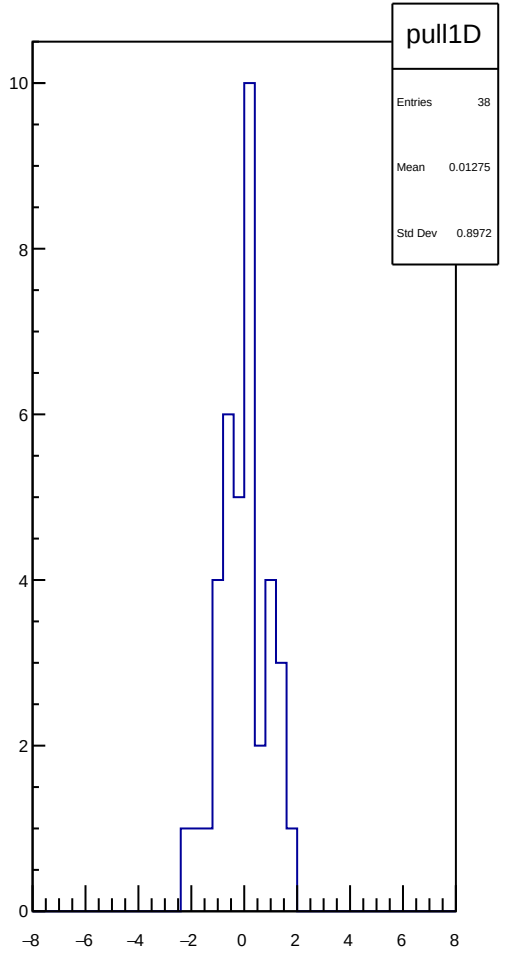
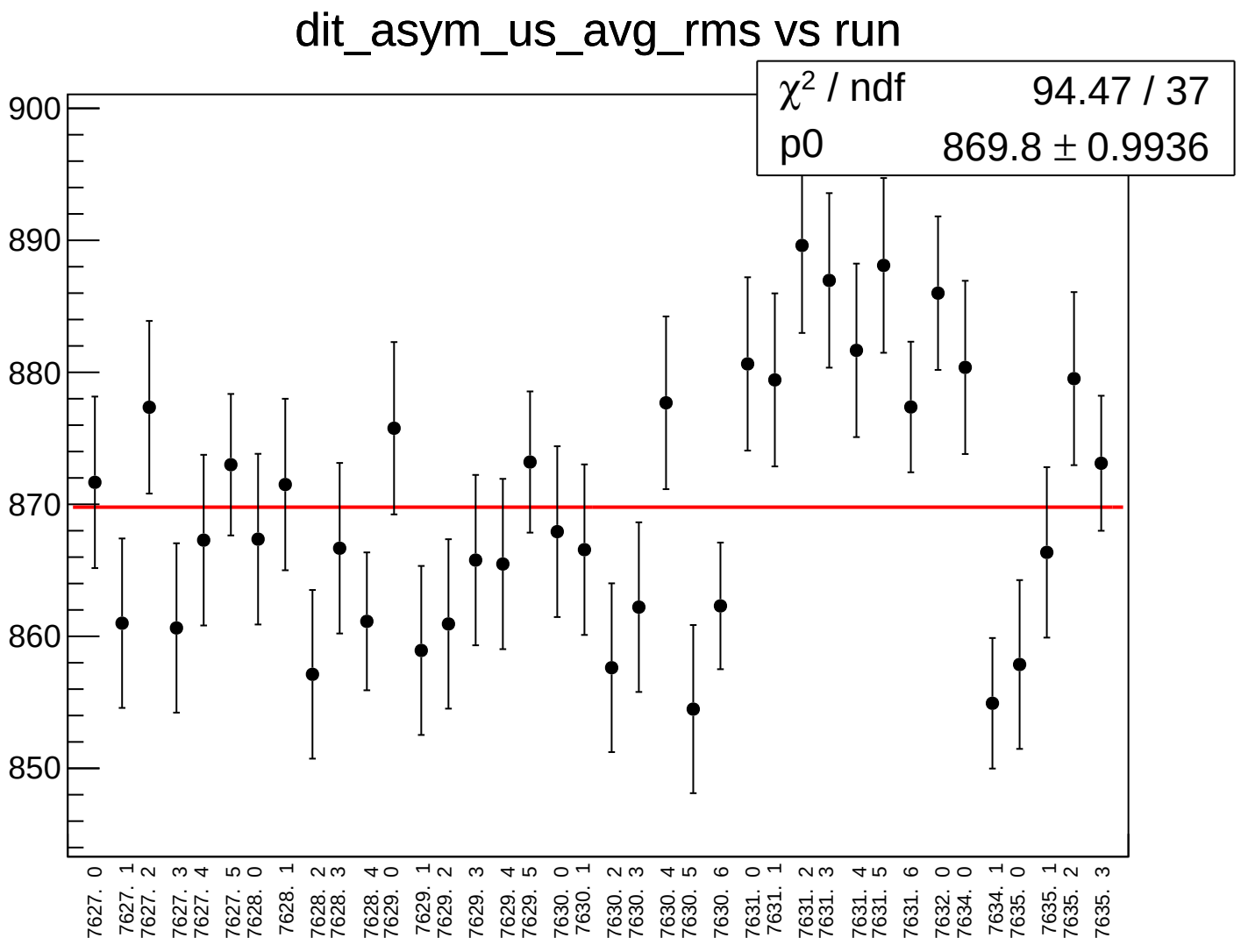
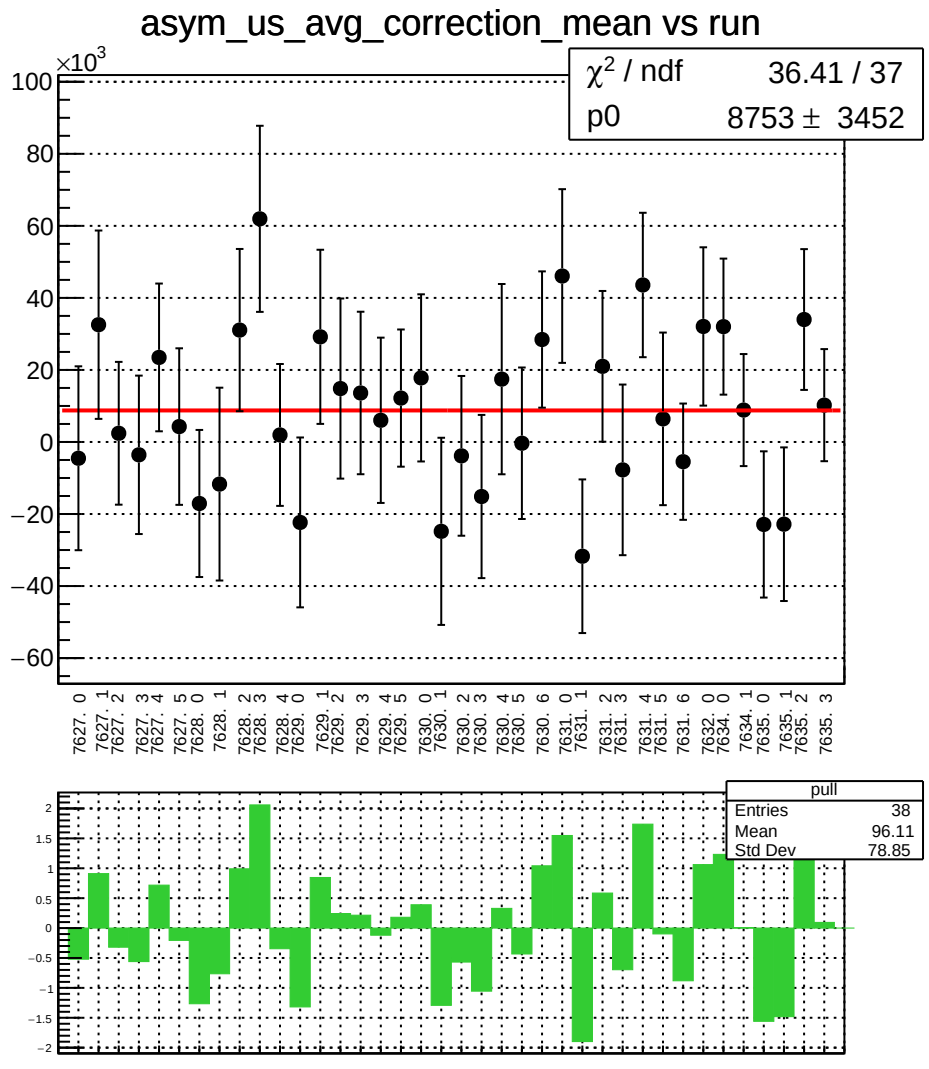
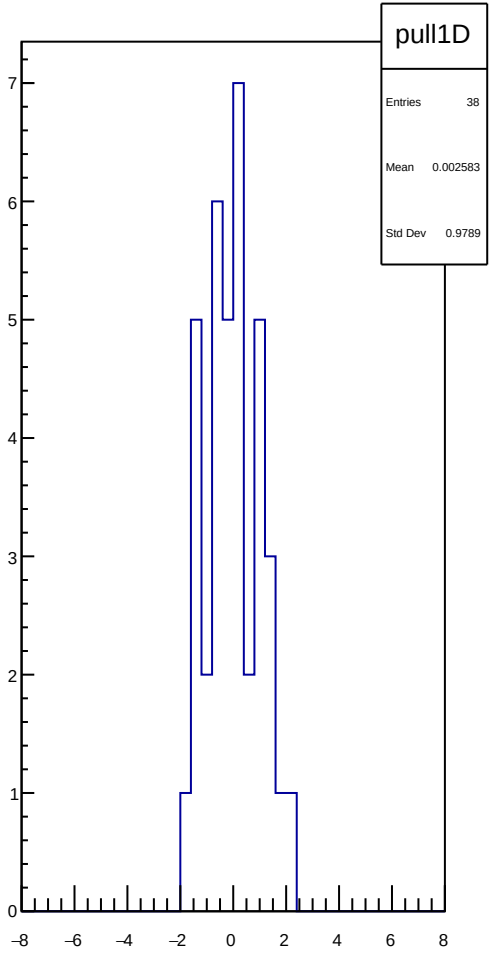
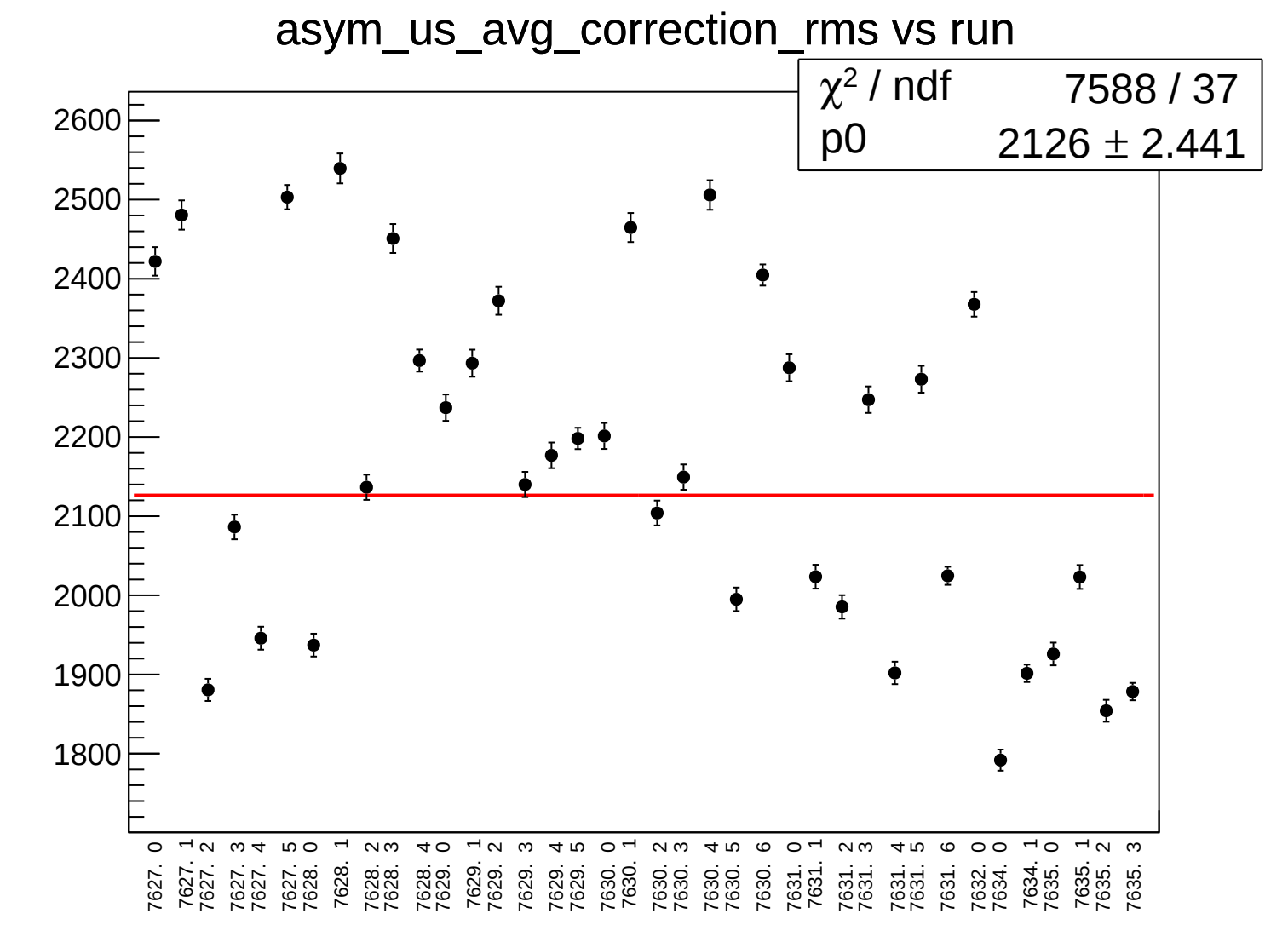

dit_asym_us_avg_mean vs run
χ² / ndf 30.59 / 37
p0 −215 ± 1405
pull
Entries 38
Mean 179.3
Std Dev 160.9

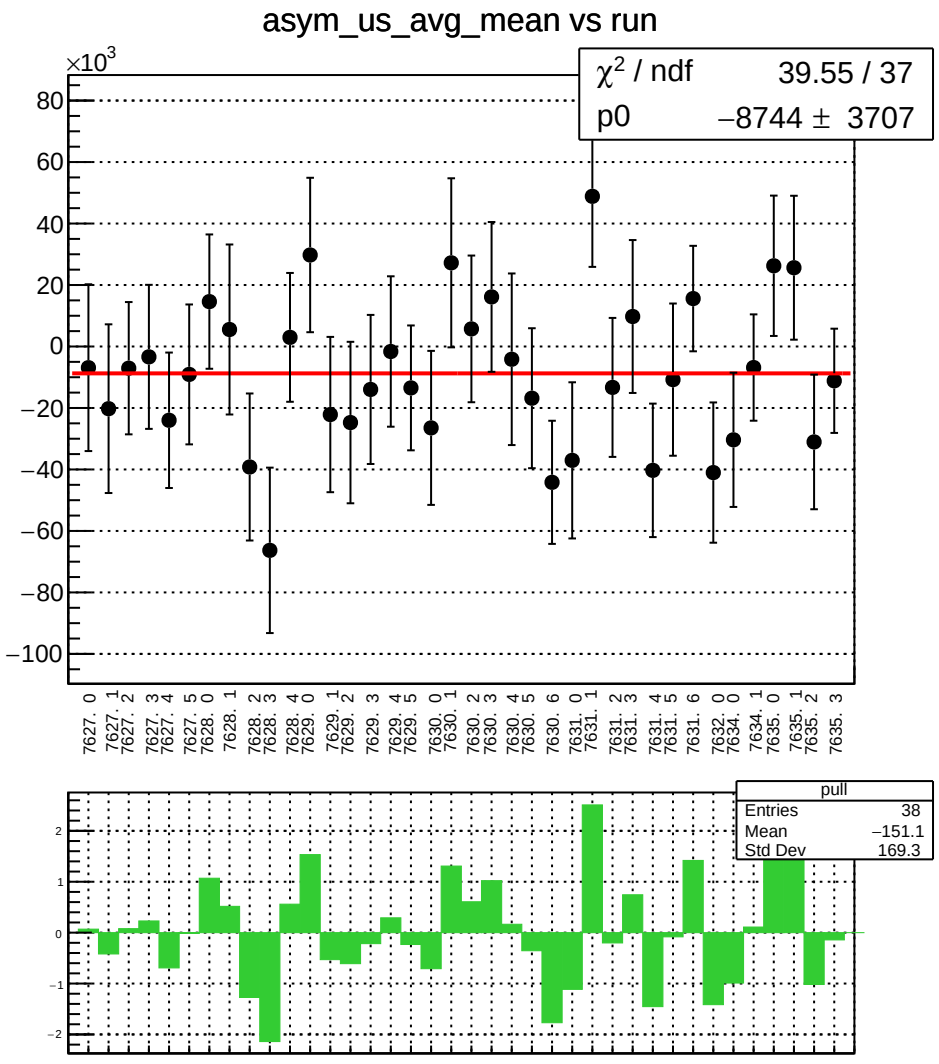

pull1D
Entries 38
Mean 0.01275
Std Dev 0.8972

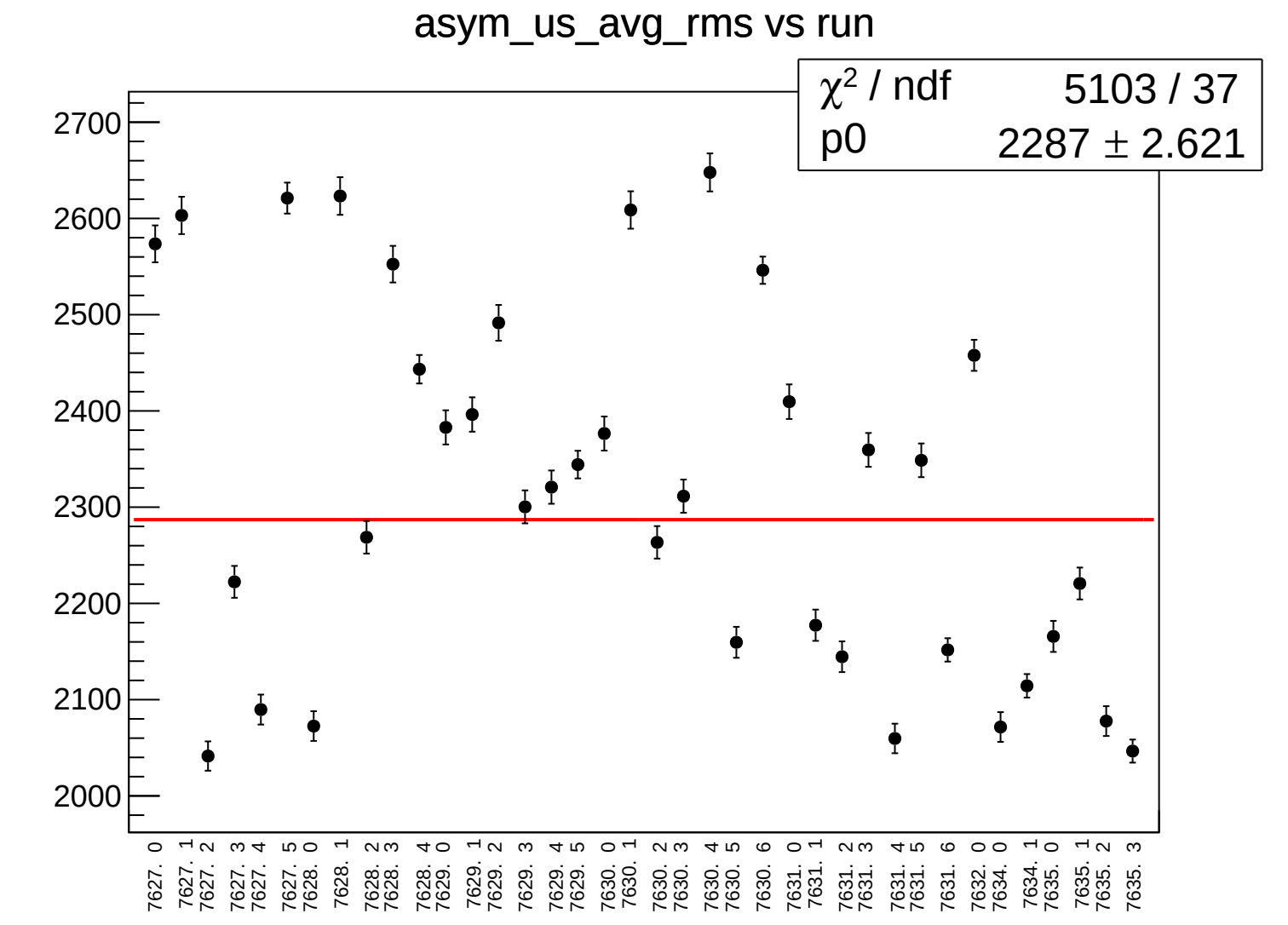

dit_asym_us_avg_rms vs run
χ² / ndf 94.47 / 37
p0 869.8 ± 0.9936
900
890
880
870
860
850
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

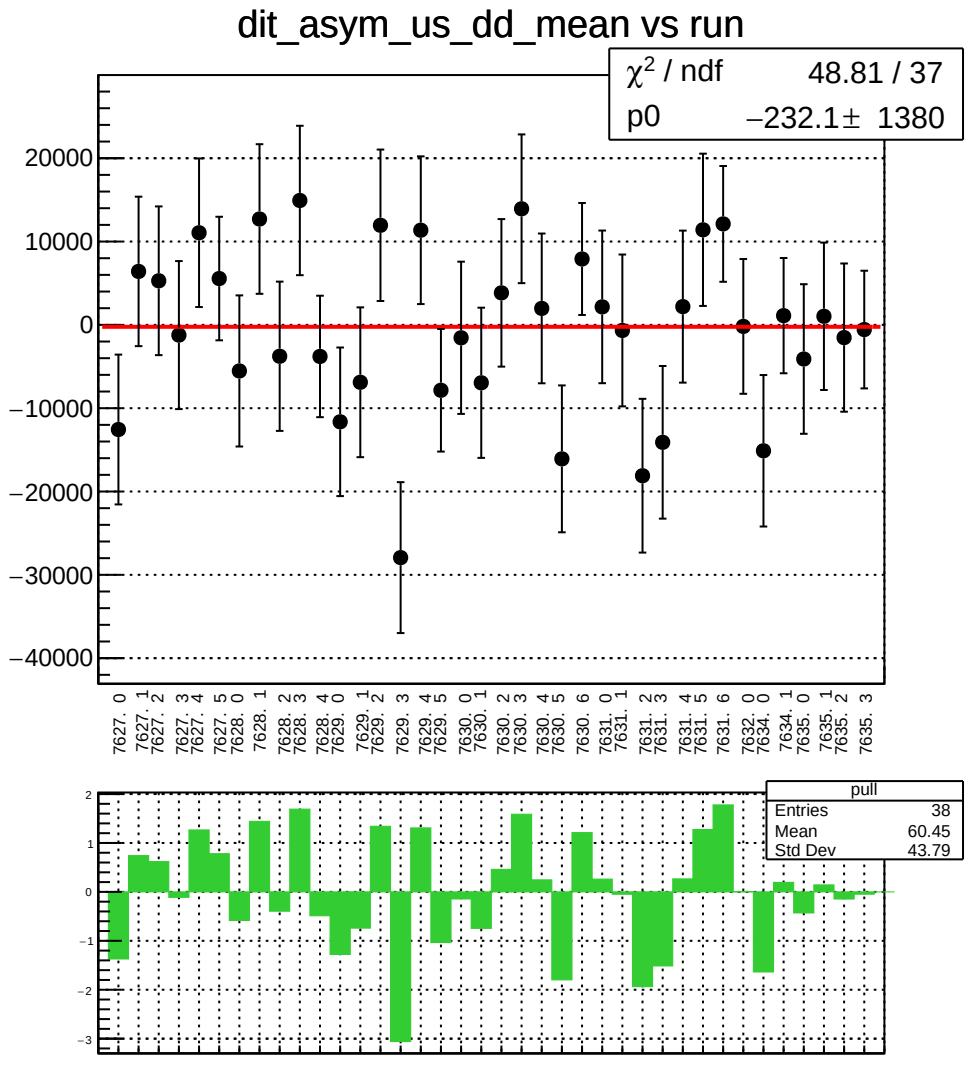

asym_us_avg_correction_mean vs run
×10^3
χ^2 / ndf 36.41 / 37
p0 8753 ± 3452
pull
Entries 38
Mean 96.11
Std Dev 78.85

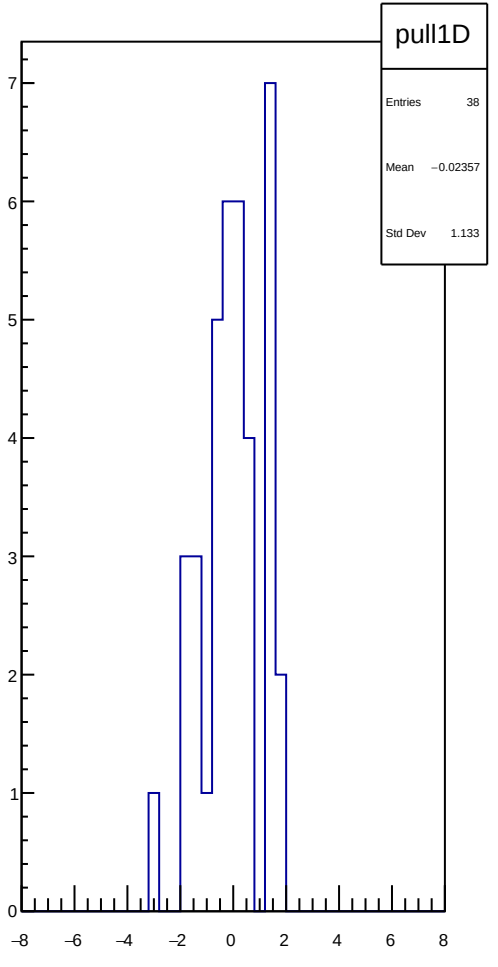

pull1D
Entries 38
Mean 0.002583
Std Dev 0.9789

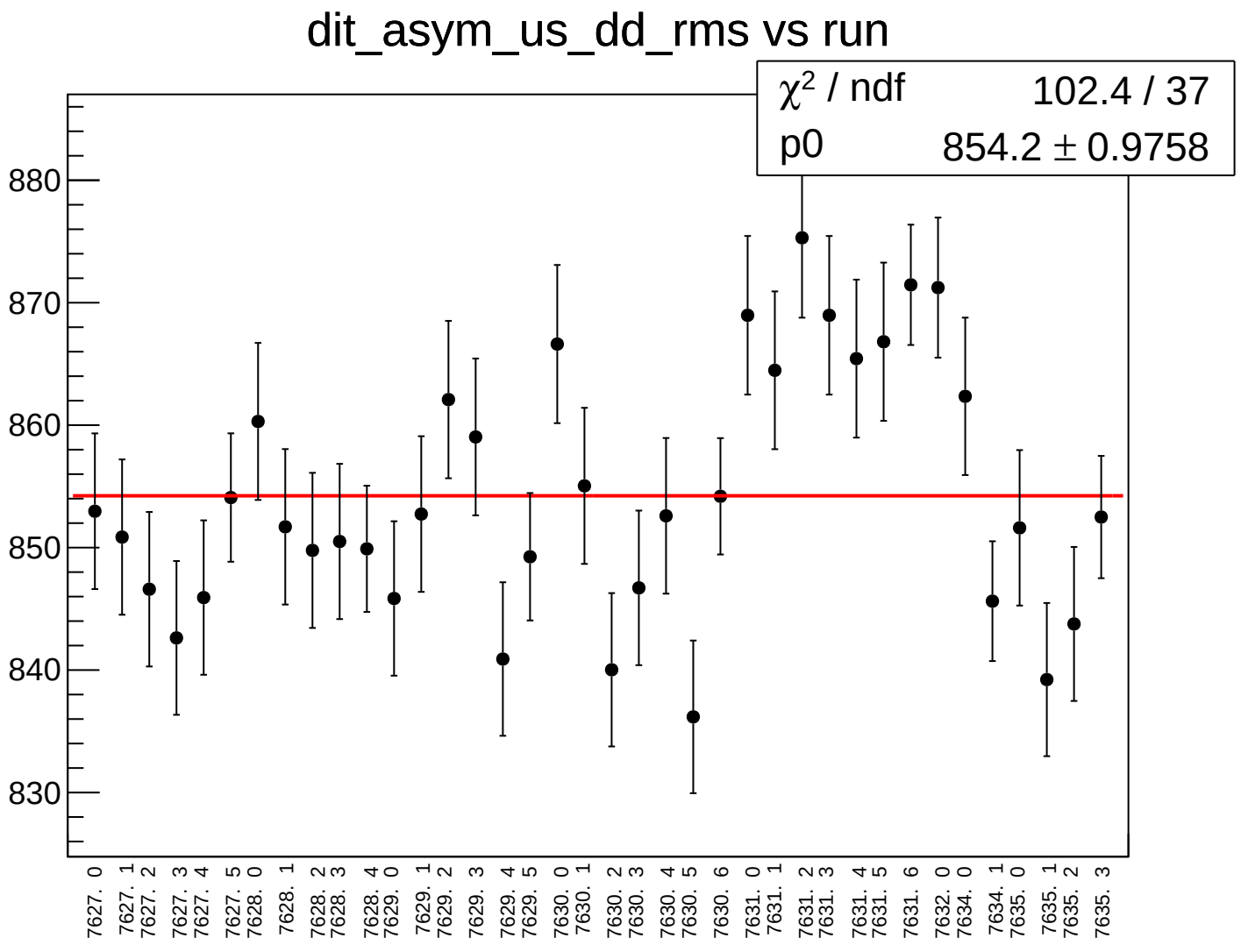

asym_us_avg_correction_rms vs run
χ² / ndf 7588 / 37
p0 2126 ± 2.441
2600
2500
2400
2300
2200
2100
2000
1900
1800
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

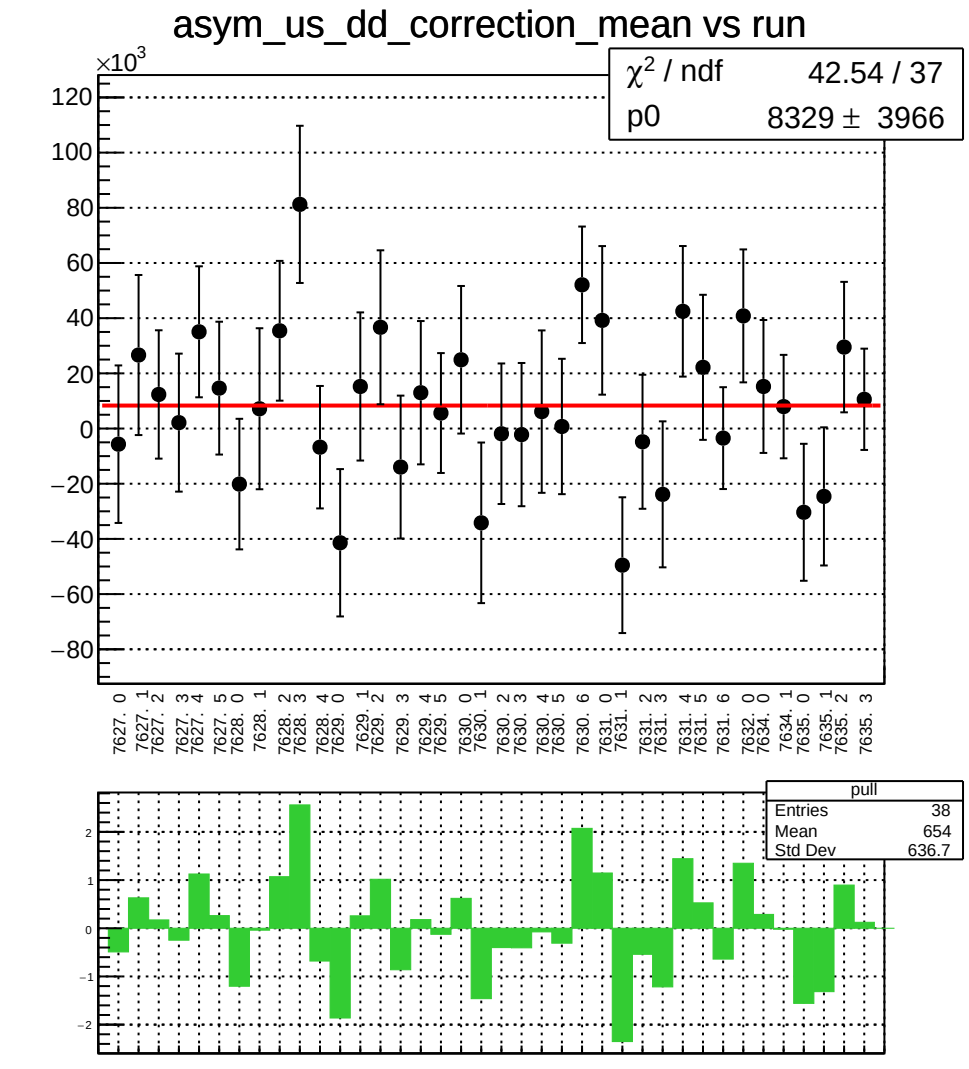

asym_us_avg_mean vs run
×10^3
χ² / ndf 39.55 / 37
p0 −8744 ± 3707
80
60
40
20
0
−20
−40
−60
−80
−100
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −151.1
Std Dev 169.3
2
1
0
−1
−2
pull1D
Entries 38
Mean −0.003885
Std Dev 1.02
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

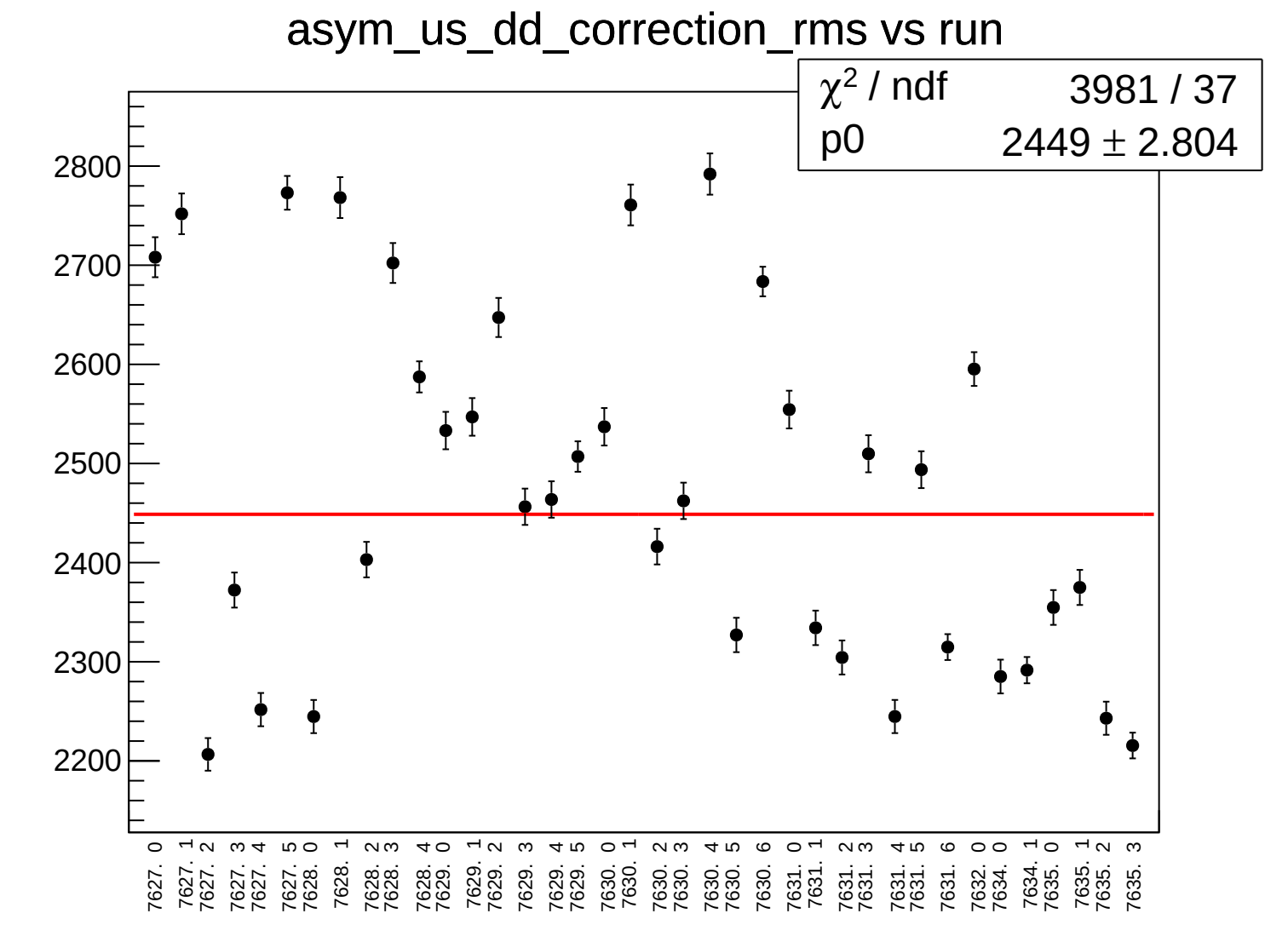

asym_us_avg_rms vs run
χ² / ndf 5103 / 37
p0 2287 ± 2.621
2700
2600
2500
2400
2300
2200
2100
2000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

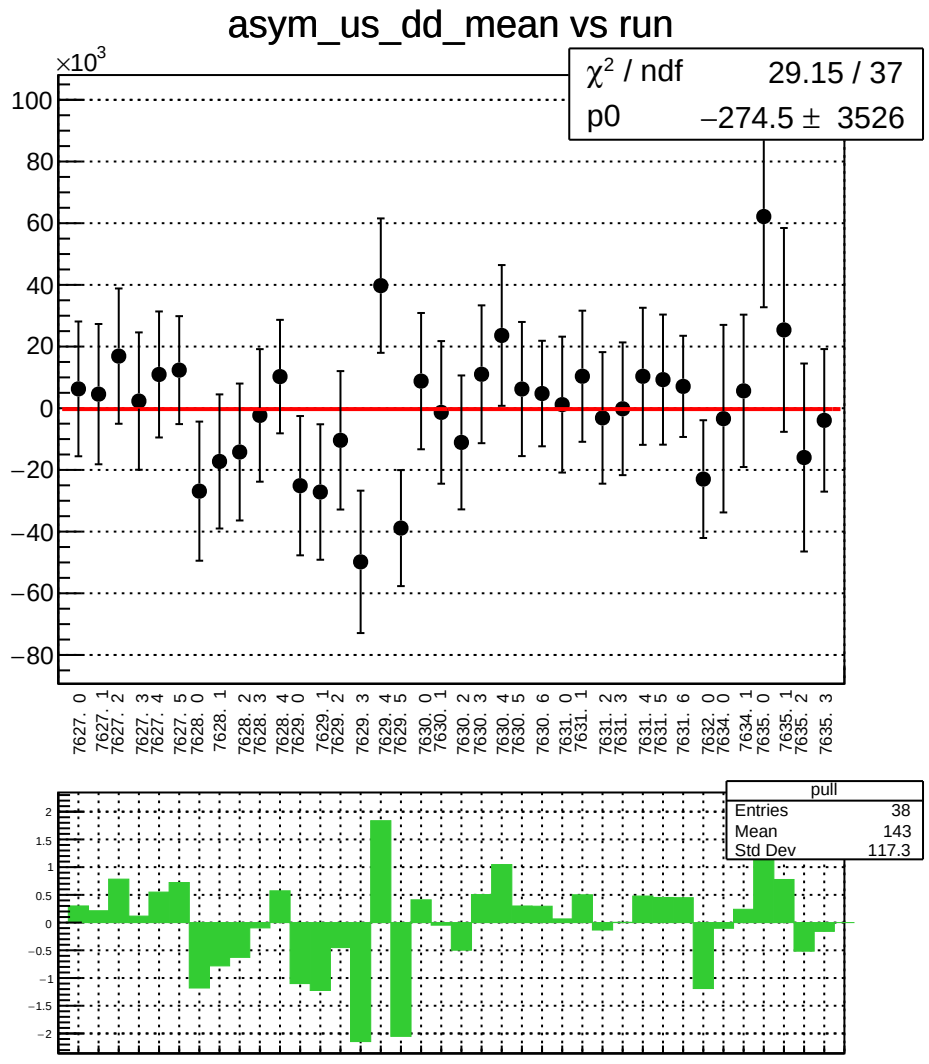

dit_asym_us_dd_mean vs run
χ² / ndf 48.81 / 37
p0 −232.1± 1380
20000
10000
0
−10000
−20000
−30000
−40000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 60.45
Std Dev 43.79
2
1
0
−1
−2
−3

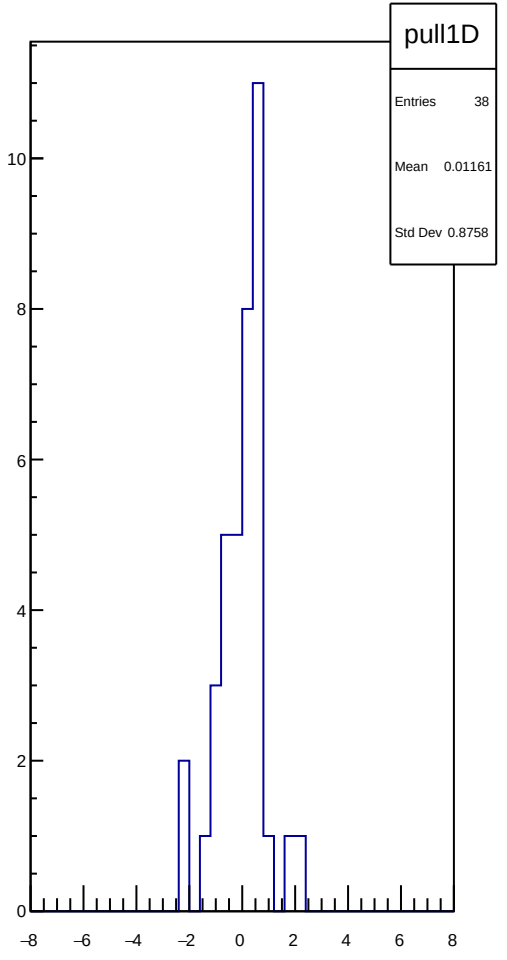

pull1D
Entries 38
Mean −0.02357
Std Dev 1.133
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

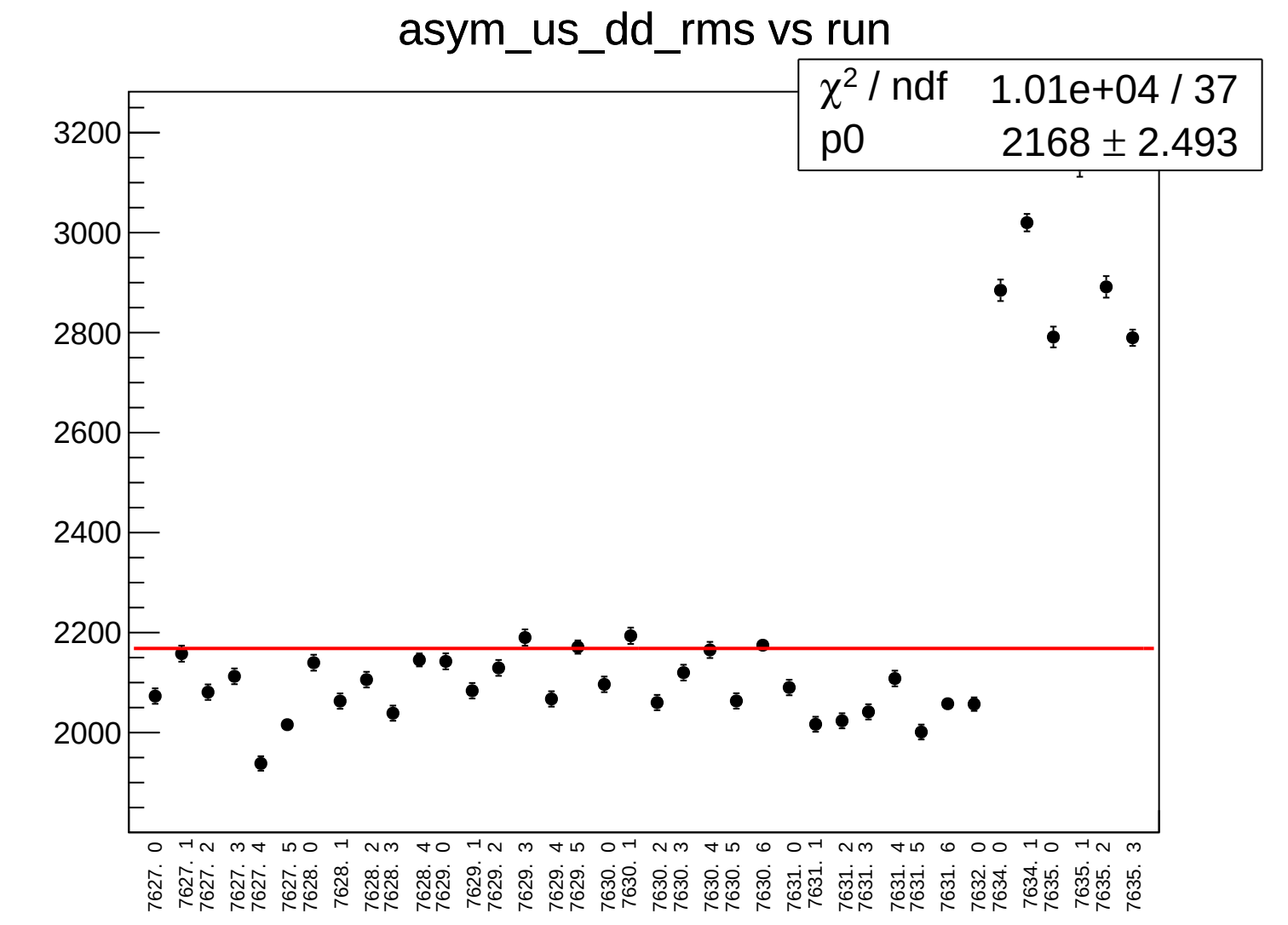

dit_asym_us_dd_rms vs run
χ² / ndf 102.4 / 37
p0 854.2 ± 0.9758
880
870
860
850
840
830
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

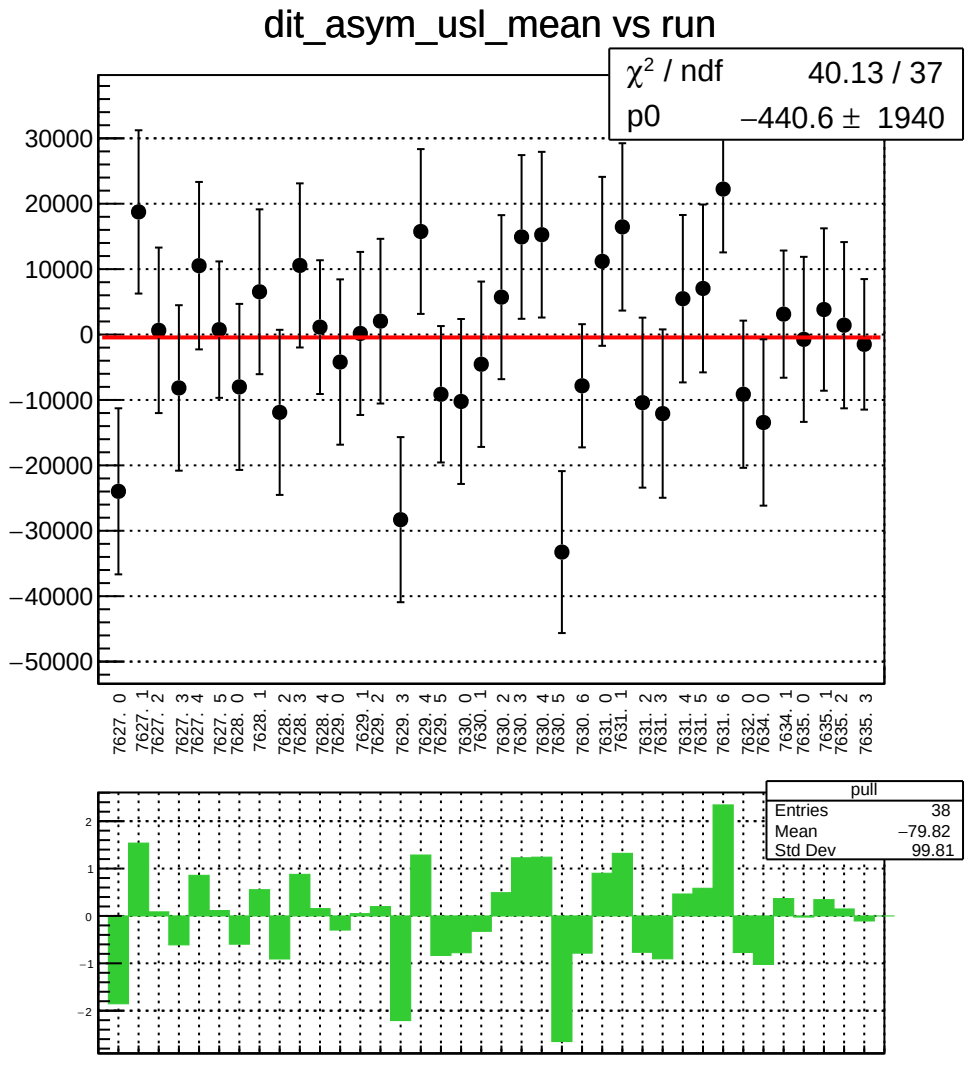

asym_us_dd_correction_mean vs run
×10^3
χ^2 / ndf 42.54 / 37
p0 8329 ± 3966
120
100
80
60
40
20
0
−20
−40
−60
−80
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 654
Std Dev 636.7
2
1
0
−1
−2
pull1D
Entries 38
Mean −0.001523
Std Dev 1.058
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

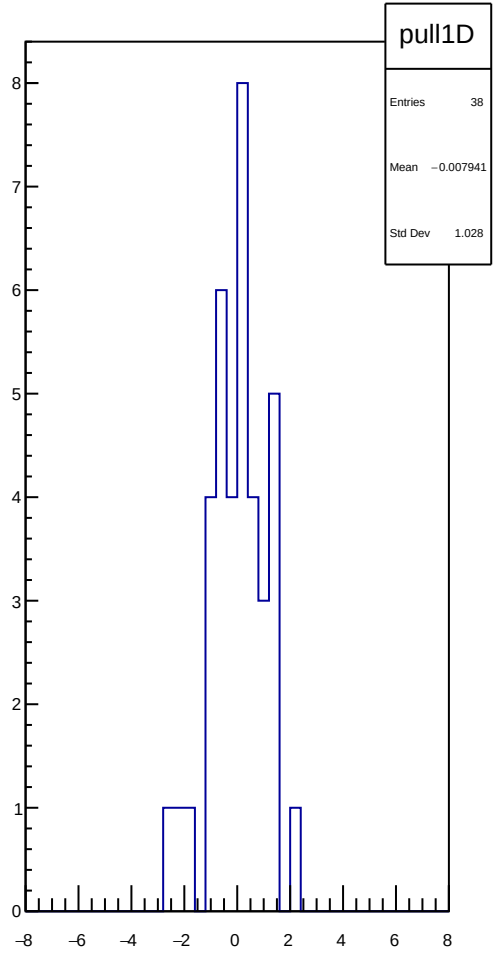

asym_us_dd_correction_rms vs run
χ² / ndf 3981 / 37
p0 2449 ± 2.804
2800
2700
2600
2500
2400
2300
2200
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

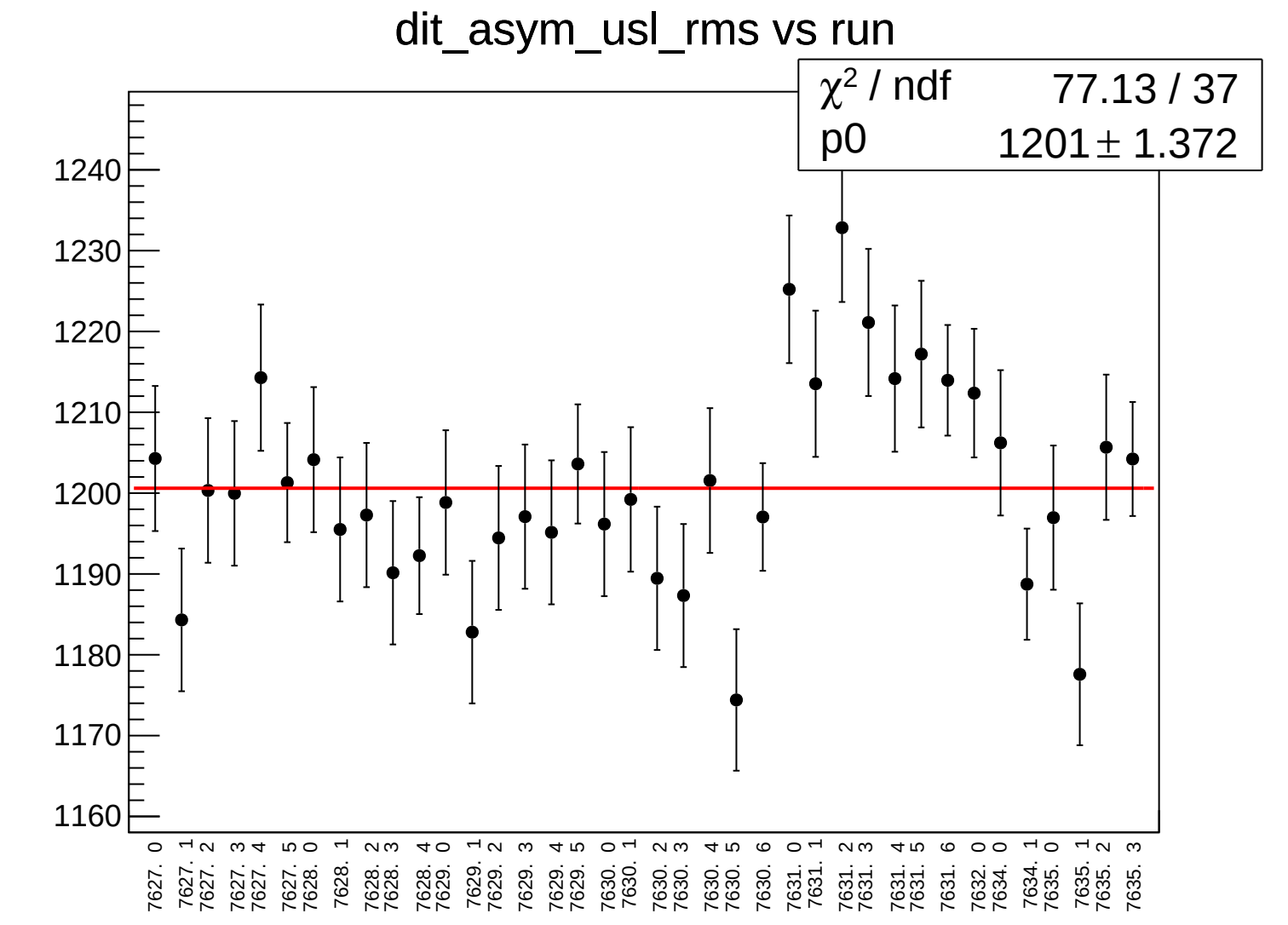

asym_us_dd_mean vs run
×10^3
χ² / ndf 29.15 / 37
p0 −274.5 ± 3526
100
80
60
40
20
0
−20
−40
−60
−80
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 143
Std Dev 117.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

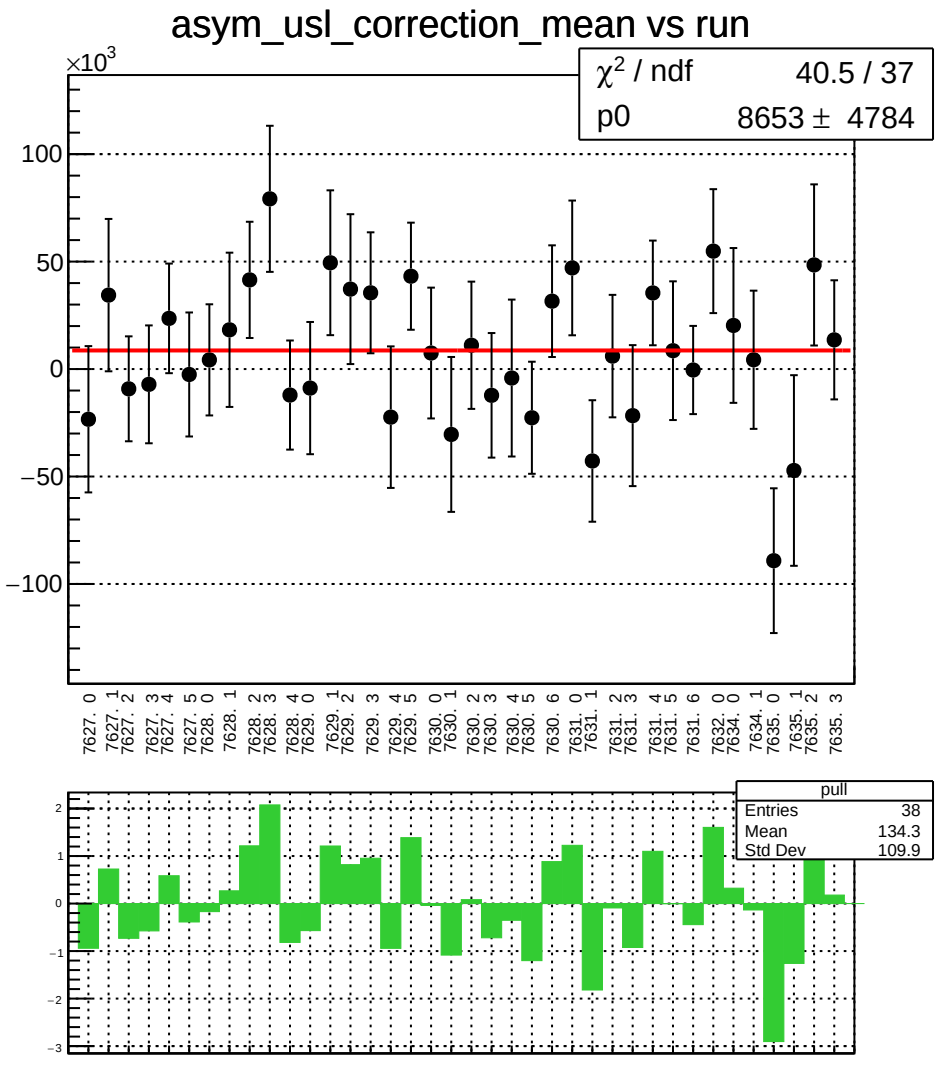

pull1D
Entries 38
Mean 0.01161
Std Dev 0.8758
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

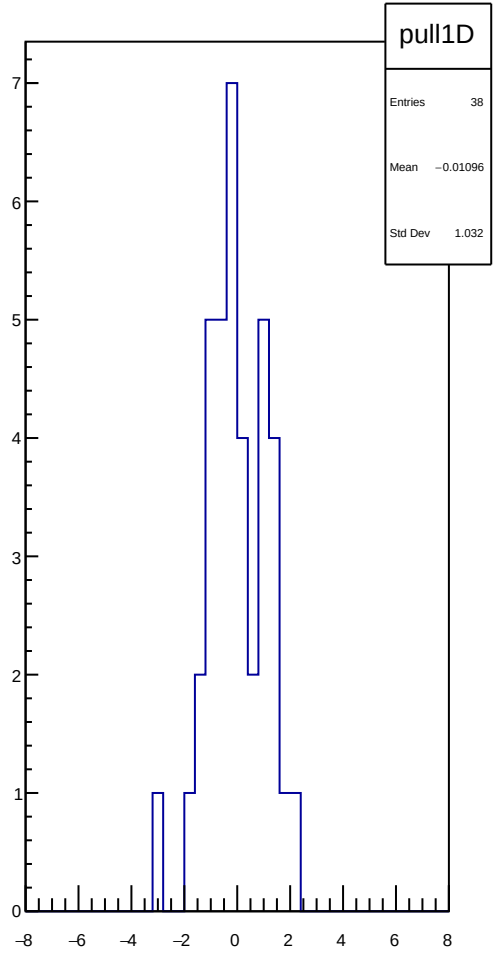

asym_us_dd_rms vs run
χ² / ndf 1.01e+04 / 37
p0 2168 ± 2.493
3200
3000
2800
2600
2400
2200
2000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

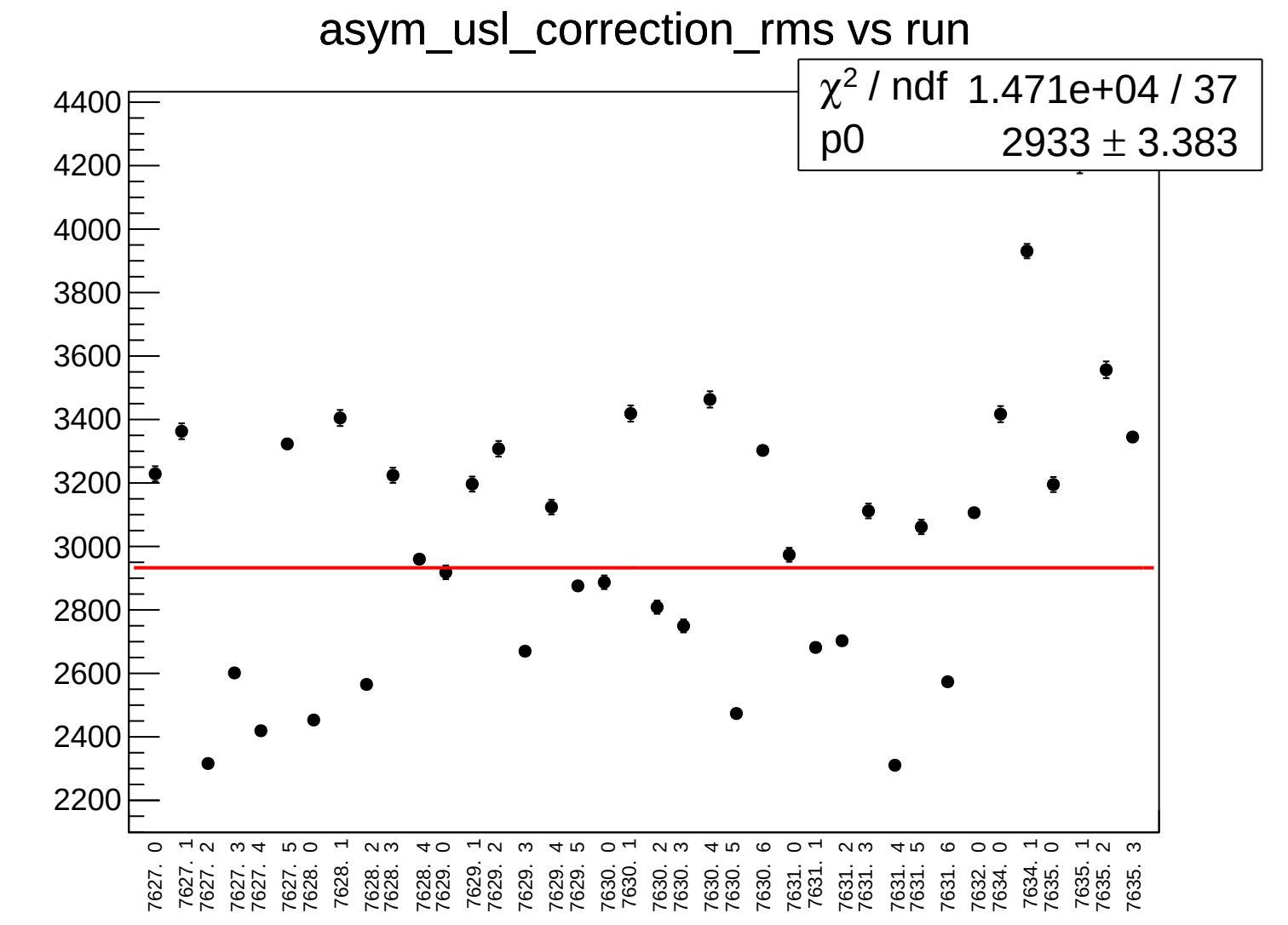

dit_asym_usl_mean vs run
χ² / ndf 40.13 / 37
p0 −440.6 ± 1940
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −79.82
Std Dev 99.81
2
1
0
−1
−2

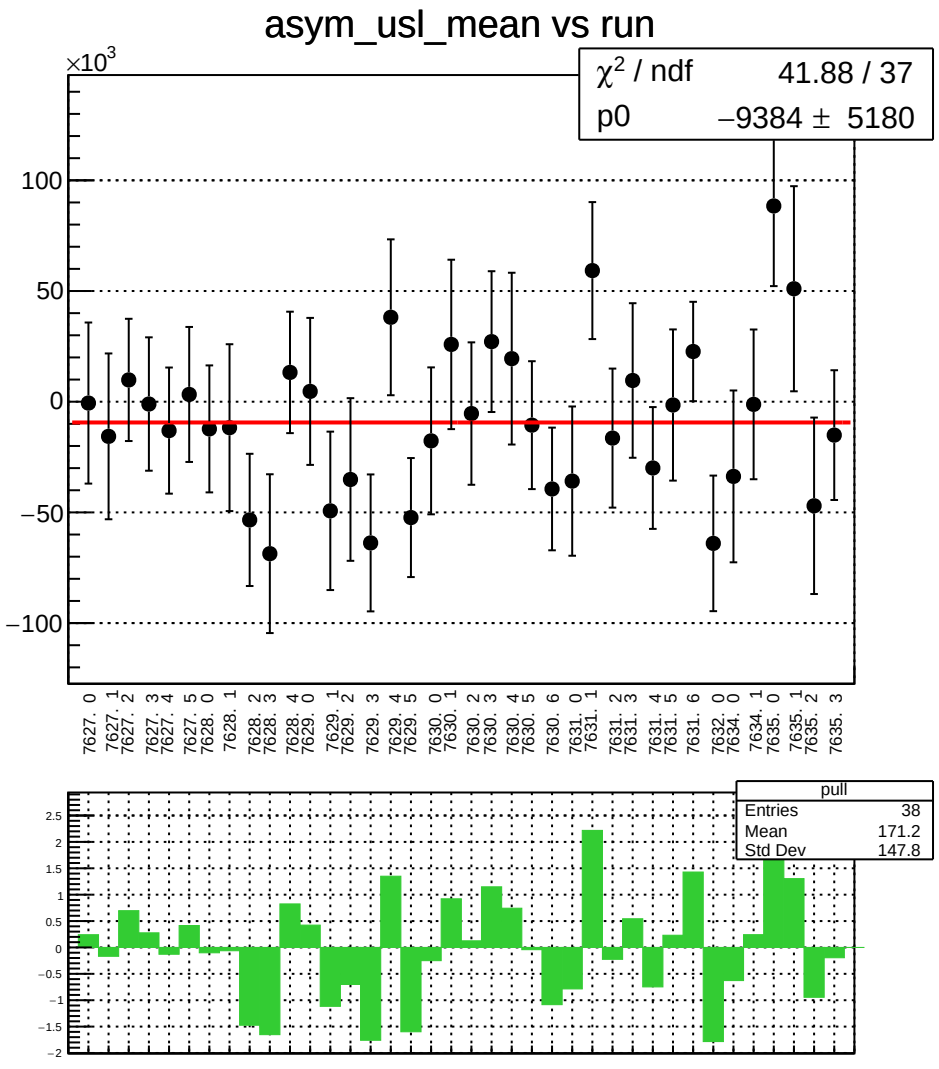

pull1D
Entries 38
Mean −0.007941
Std Dev 1.028
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

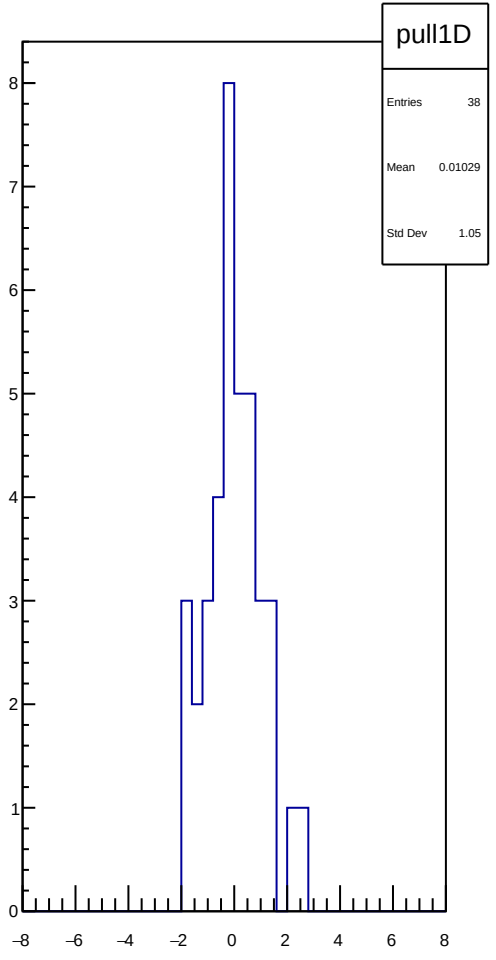

dit_asym_usl_rms vs run
χ^2 / ndf 77.13 / 37
p0 1201 ± 1.372
1240
1230
1220
1210
1200
1190
1180
1170
1160
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

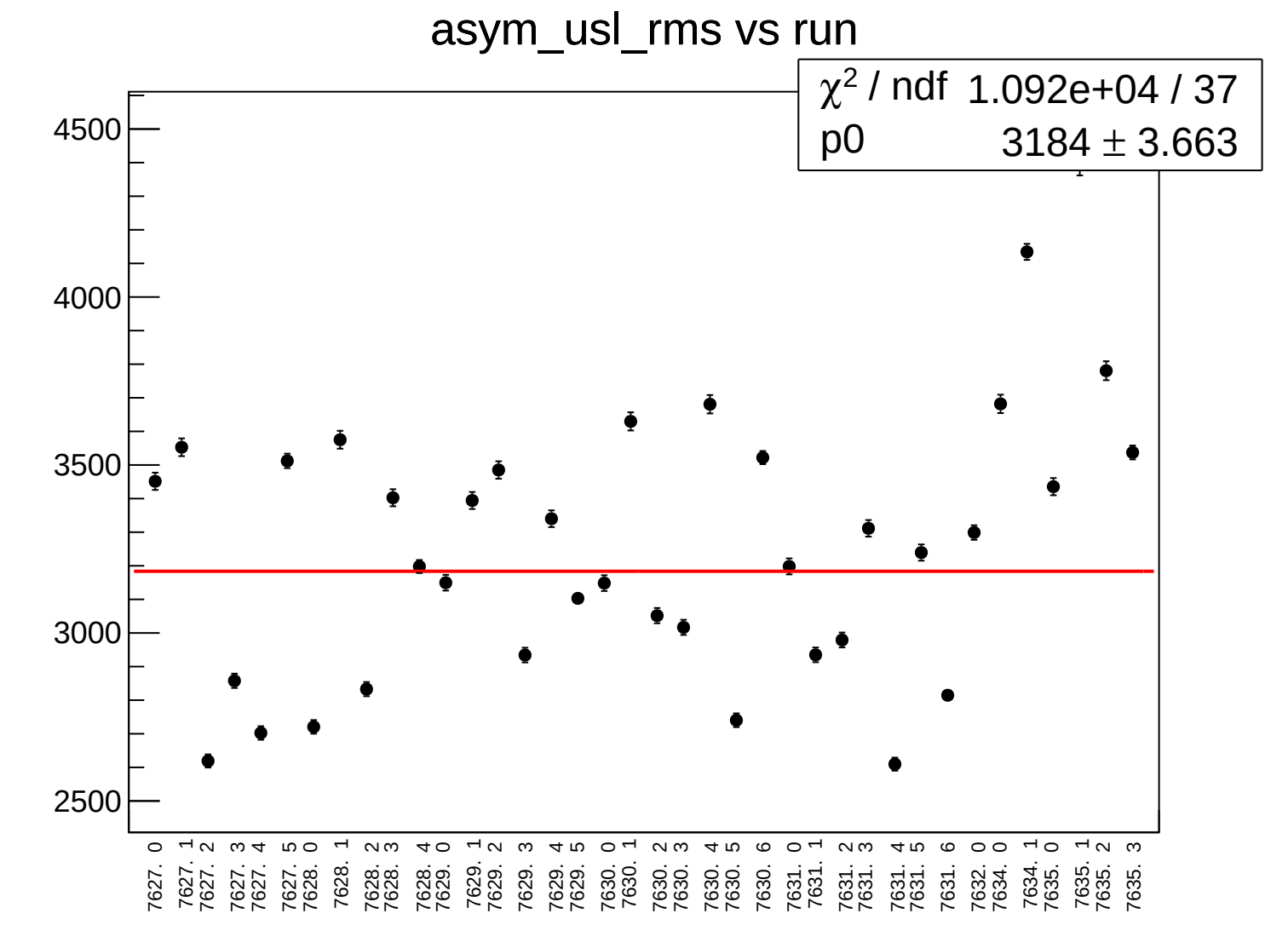

asym_usl_correction_mean vs run
×10^3
χ² / ndf 40.5 / 37
p0 8653 ± 4784
100
50
0
−50
−100
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 134.3
Std Dev 109.9
2
1
0
−1
−2
−3

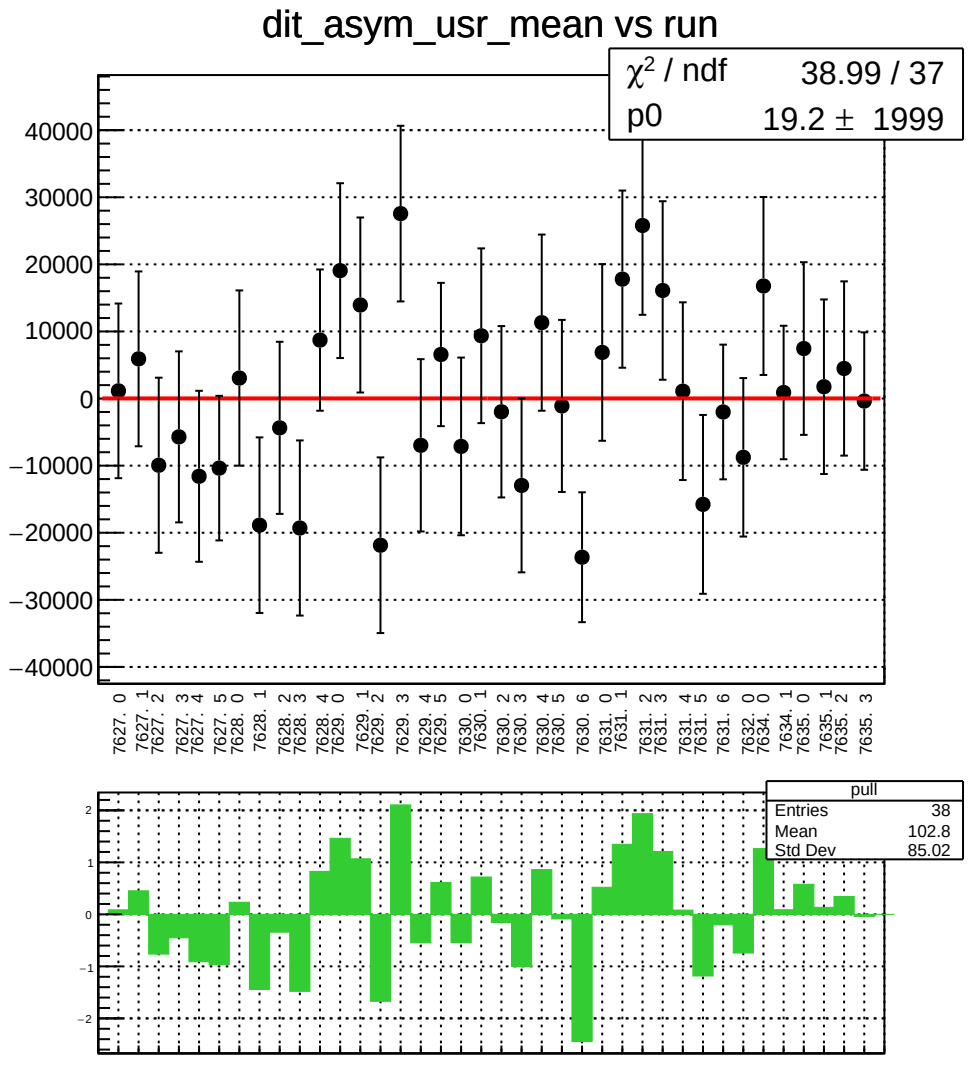

pull1D
Entries 38
Mean −0.01096
Std Dev 1.032
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

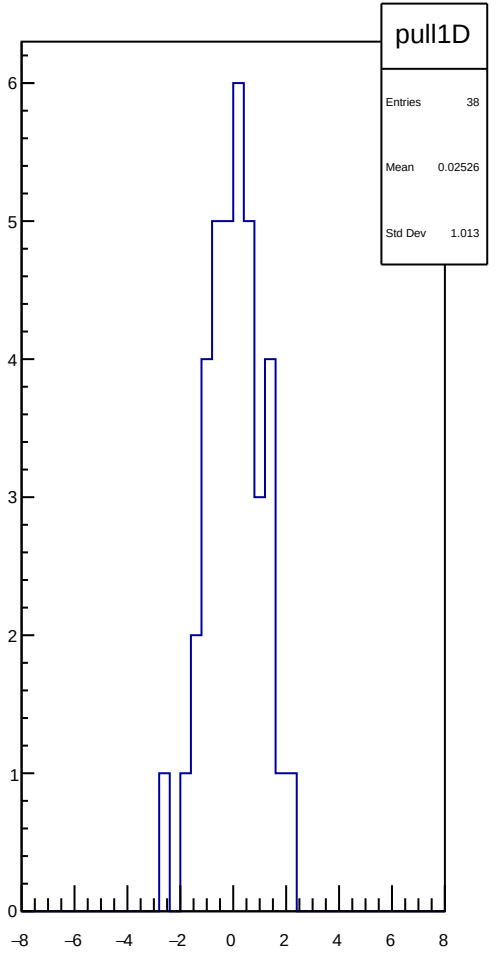

asym_usl_correction_rms vs run
χ² / ndf 1.471e+04 / 37
p0 2933 ± 3.383
4400
4200
4000
3800
3600
3400
3200
3000
2800
2600
2400
2200
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

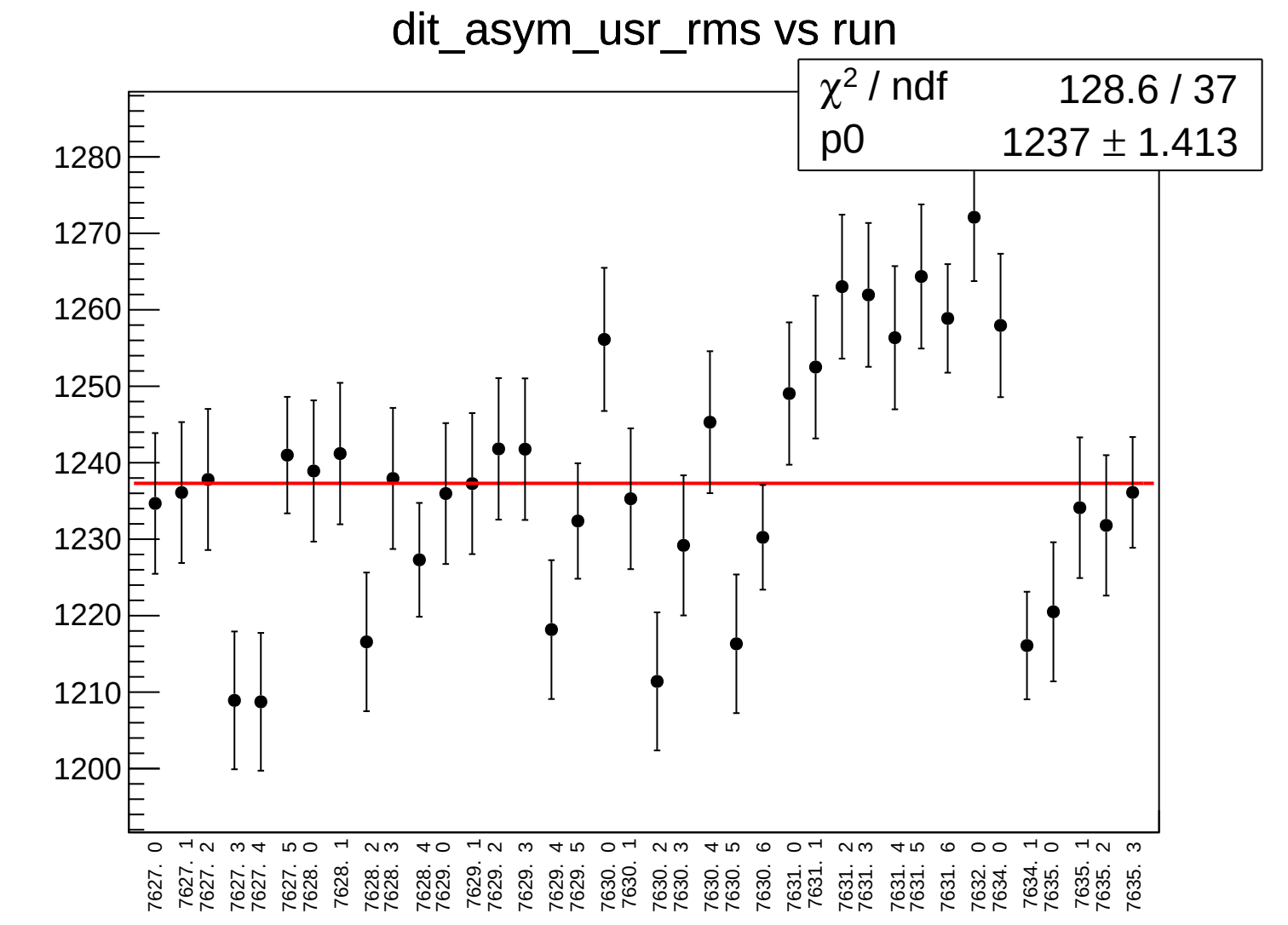

asym_usl_mean vs run
×10^3
χ² / ndf 41.88 / 37
p0 −9384 ± 5180
100
50
0
−50
−100
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 171.2
Std Dev 147.8
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

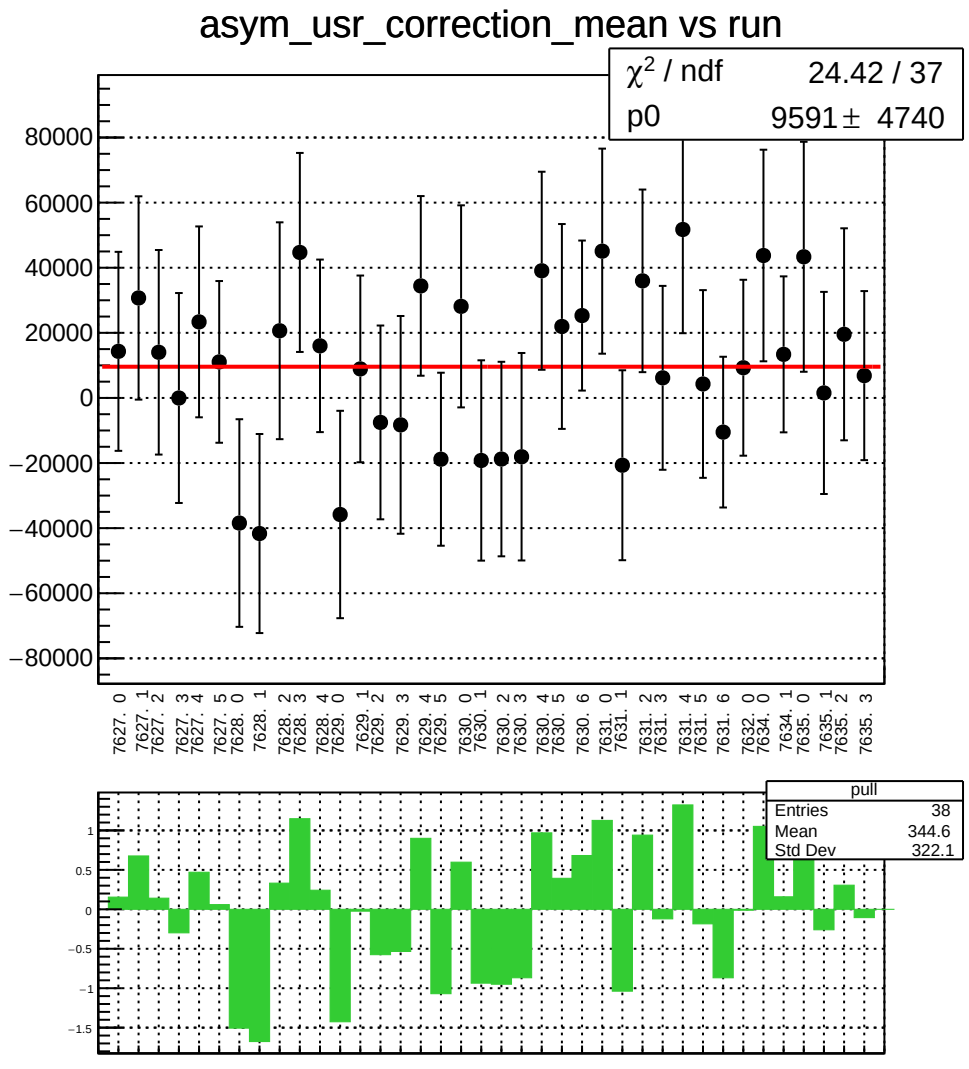

pull1D
Entries 38
Mean 0.01029
Std Dev 1.05
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

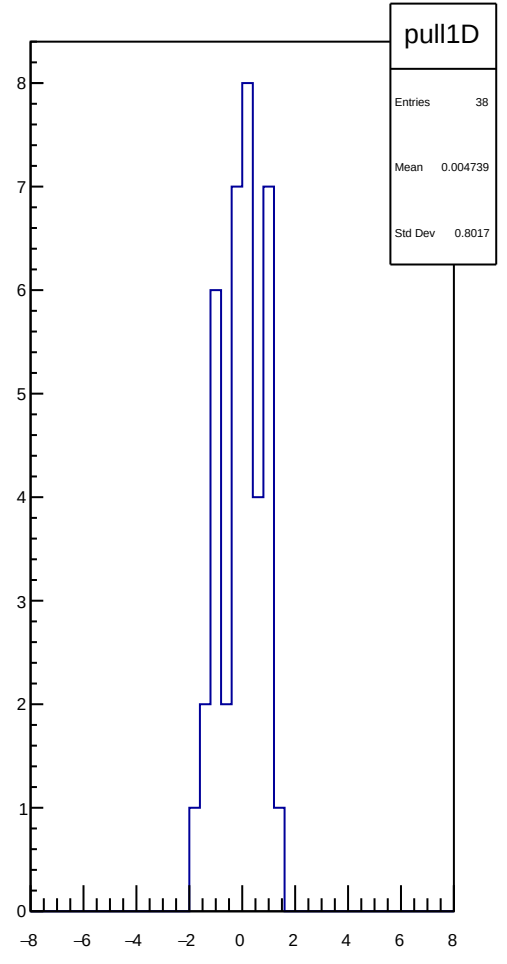

asym_usl_rms vs run
χ² / ndf 1.092e+04 / 37
p0 3184 ± 3.663
4500
4000
3500
3000
2500
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

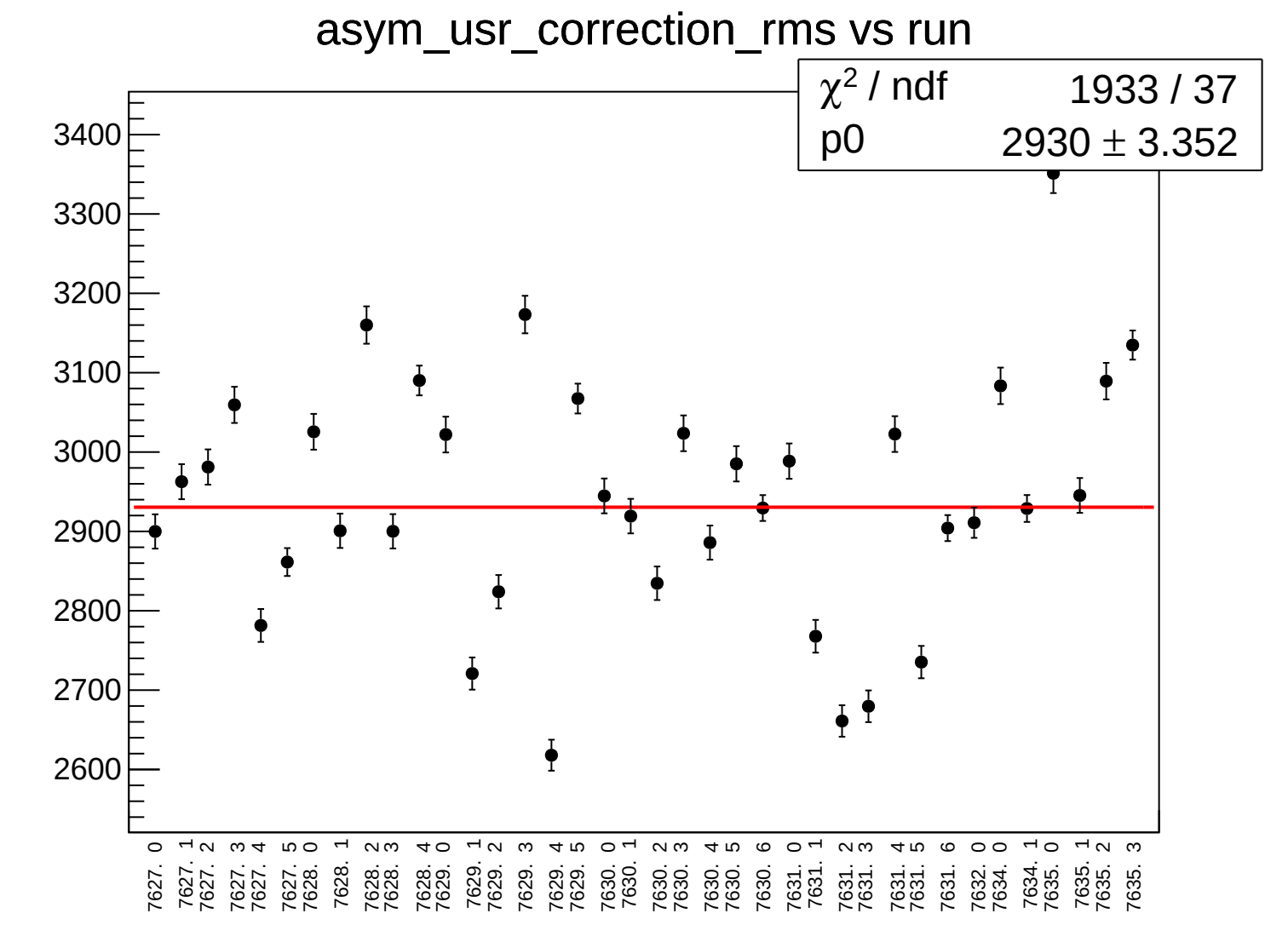

dit_asym_usr_mean vs run
χ² / ndf 38.99 / 37
p0 19.2 ± 1999
pull
Entries 38
Mean 102.8
Std Dev 85.02

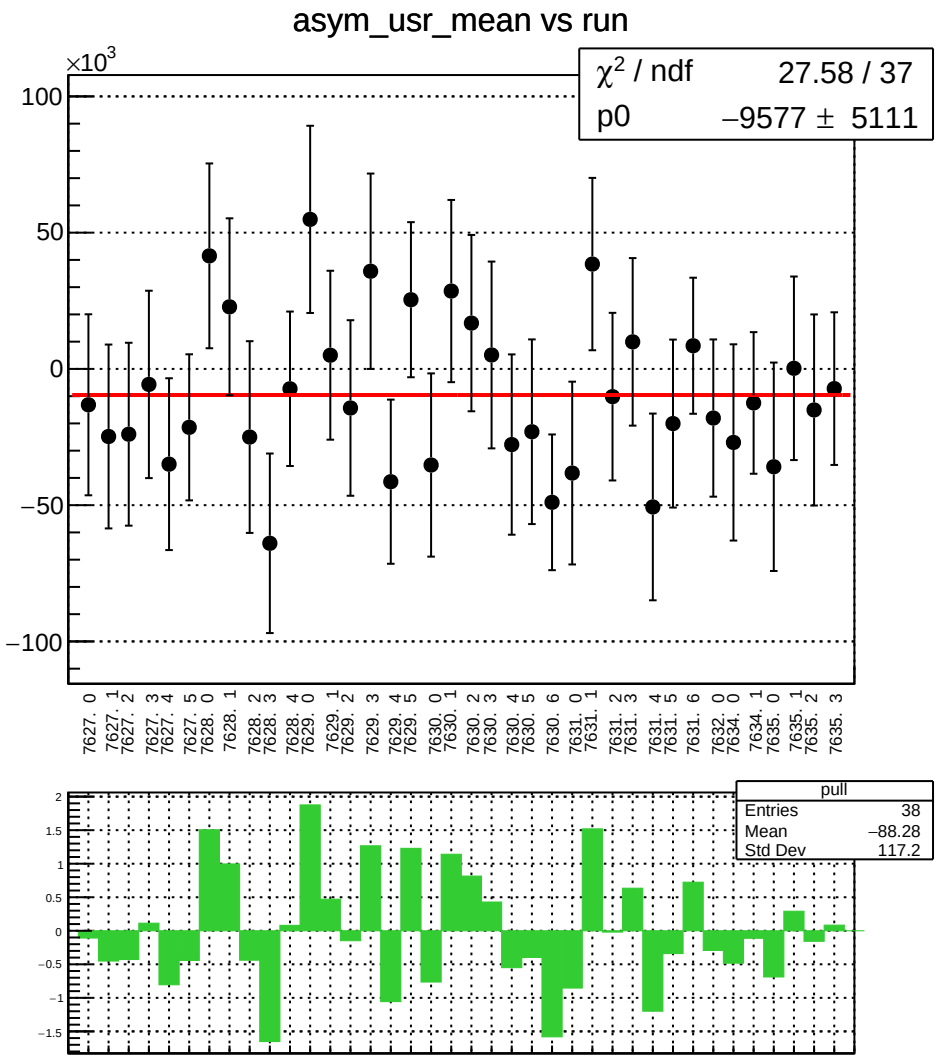

pull1D
Entries 38
Mean 0.02526
Std Dev 1.013

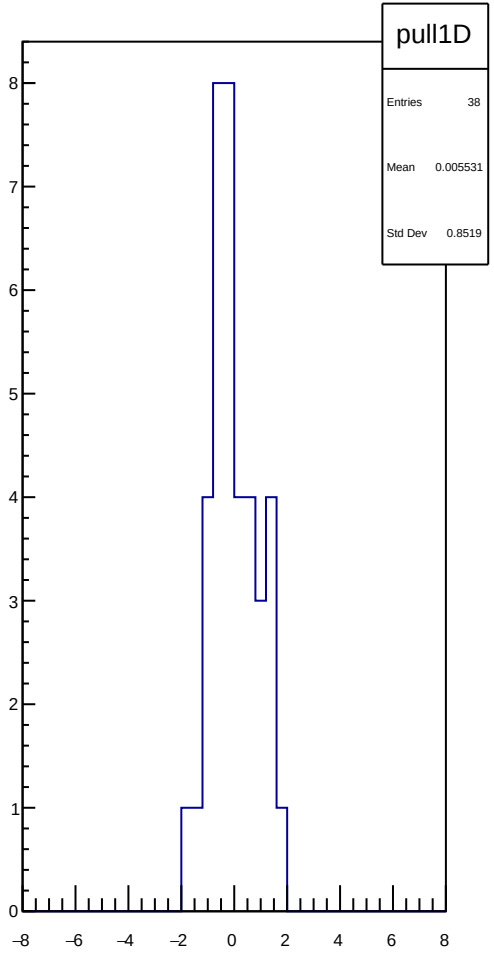

dit_asym_usr_rms vs run
χ² / ndf 128.6 / 37
p0 1237 ± 1.413
1280
1270
1260
1250
1240
1230
1220
1210
1200
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

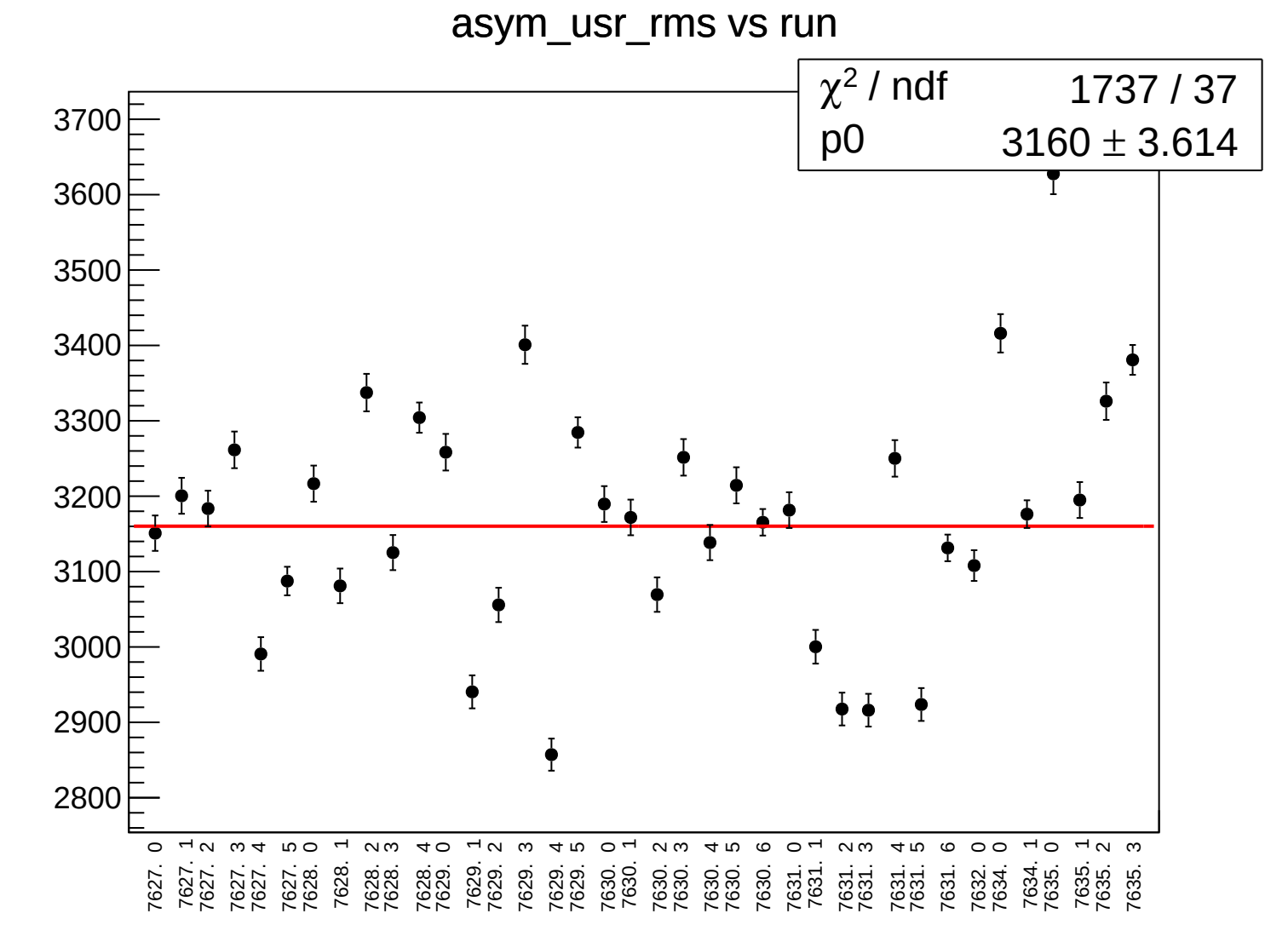

asym_usr_correction_mean vs run
χ² / ndf 24.42 / 37
p0 9591 ± 4740
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 344.6
Std Dev 322.1
1
0.5
0
−0.5
−1
−1.5

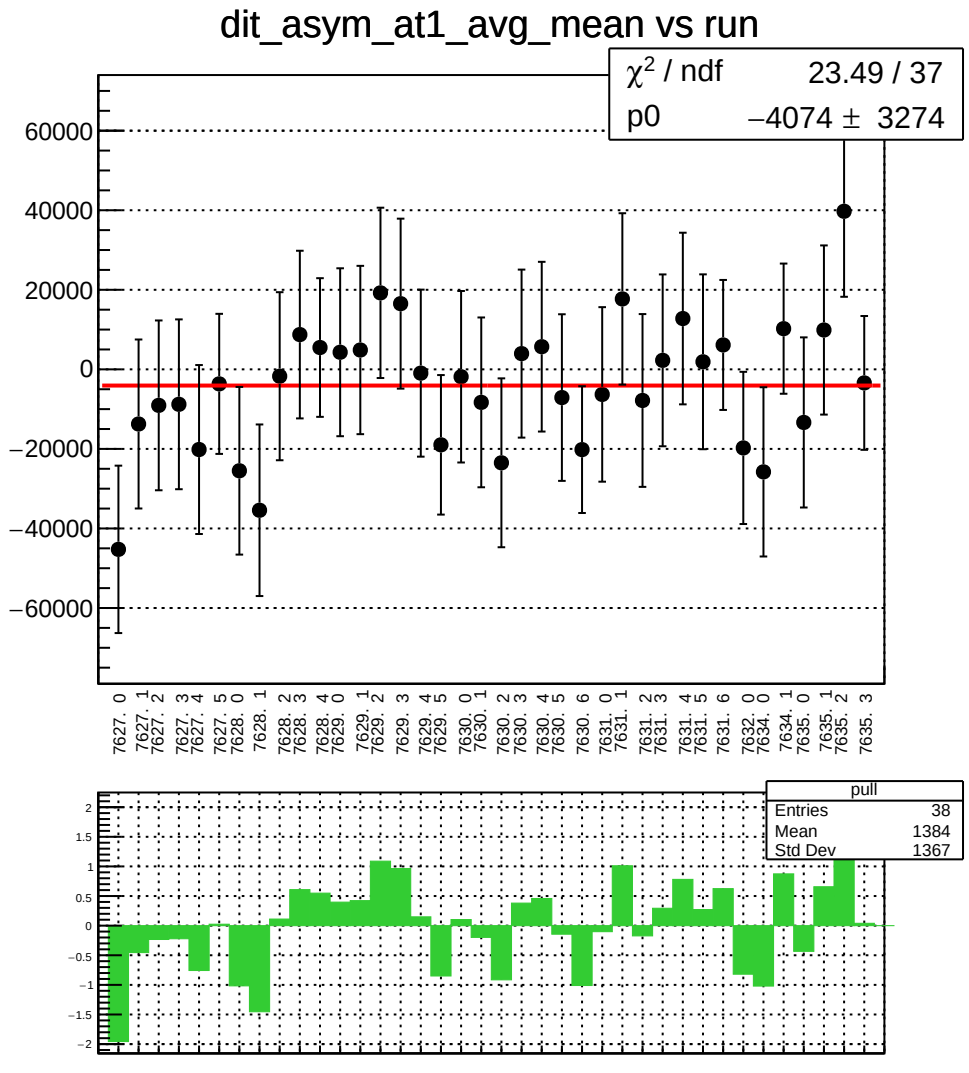

pull1D
Entries 38
Mean 0.004739
Std Dev 0.8017
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

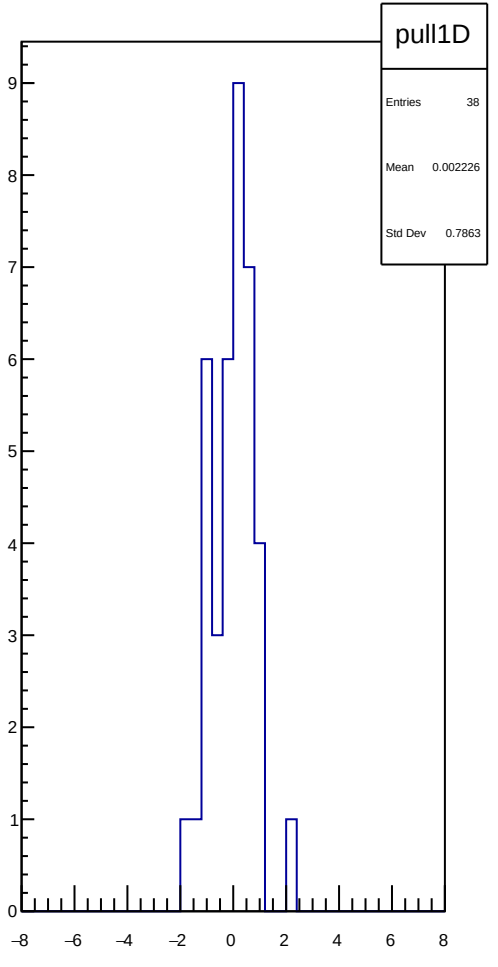

asym_usr_correction_rms vs run
χ² / ndf 1933 / 37
p0 2930 ± 3.352
3400
3300
3200
3100
3000
2900
2800
2700
2600
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

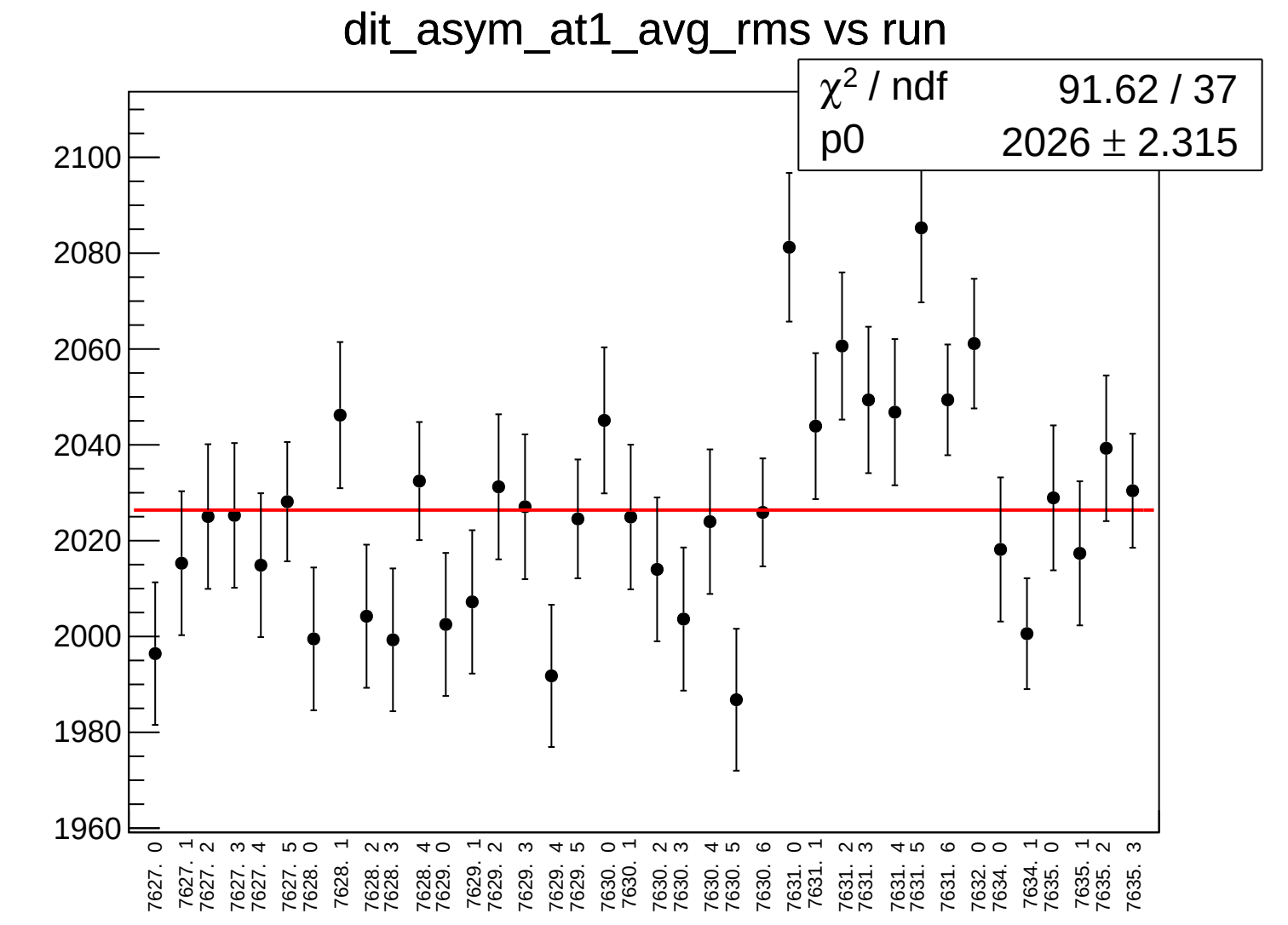

asym_usr_mean vs run
×10^3
χ² / ndf 27.58 / 37
p0 −9577 ± 5111
100
50
0
−50
−100
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −88.28
Std Dev 117.2
2
1.5
1
0.5
0
−0.5
−1
−1.5

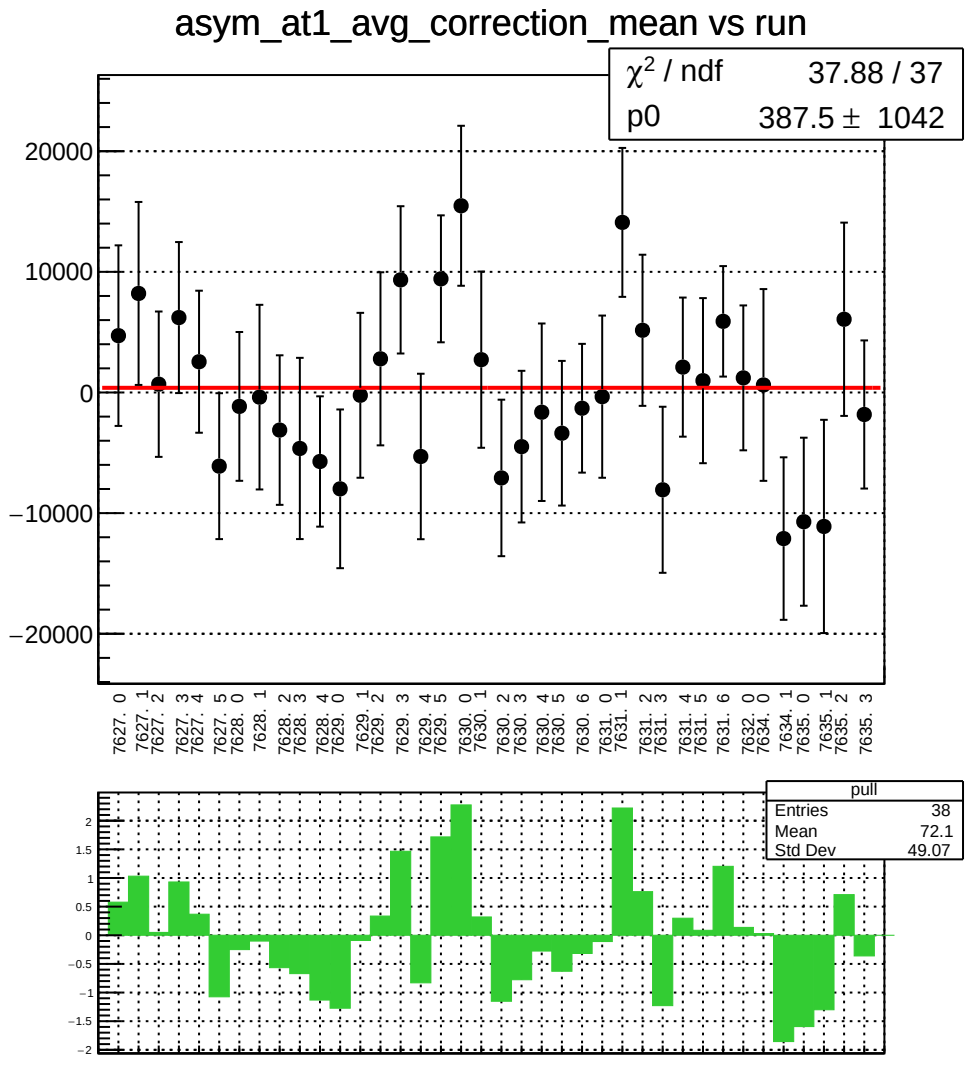

pull1D
Entries 38
Mean 0.005531
Std Dev 0.8519
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

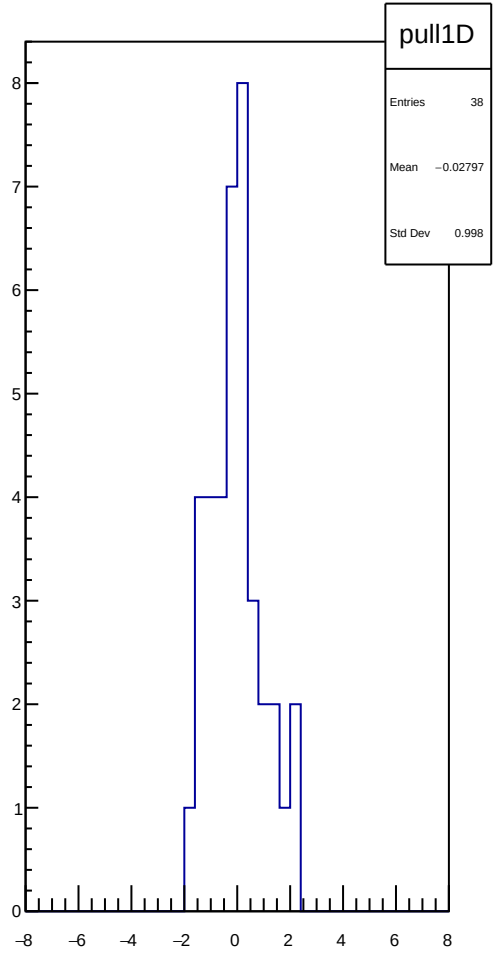

asym_usr_rms vs run
χ² / ndf 1737 / 37
p0 3160 ± 3.614
3700
3600
3500
3400
3300
3200
3100
3000
2900
2800
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

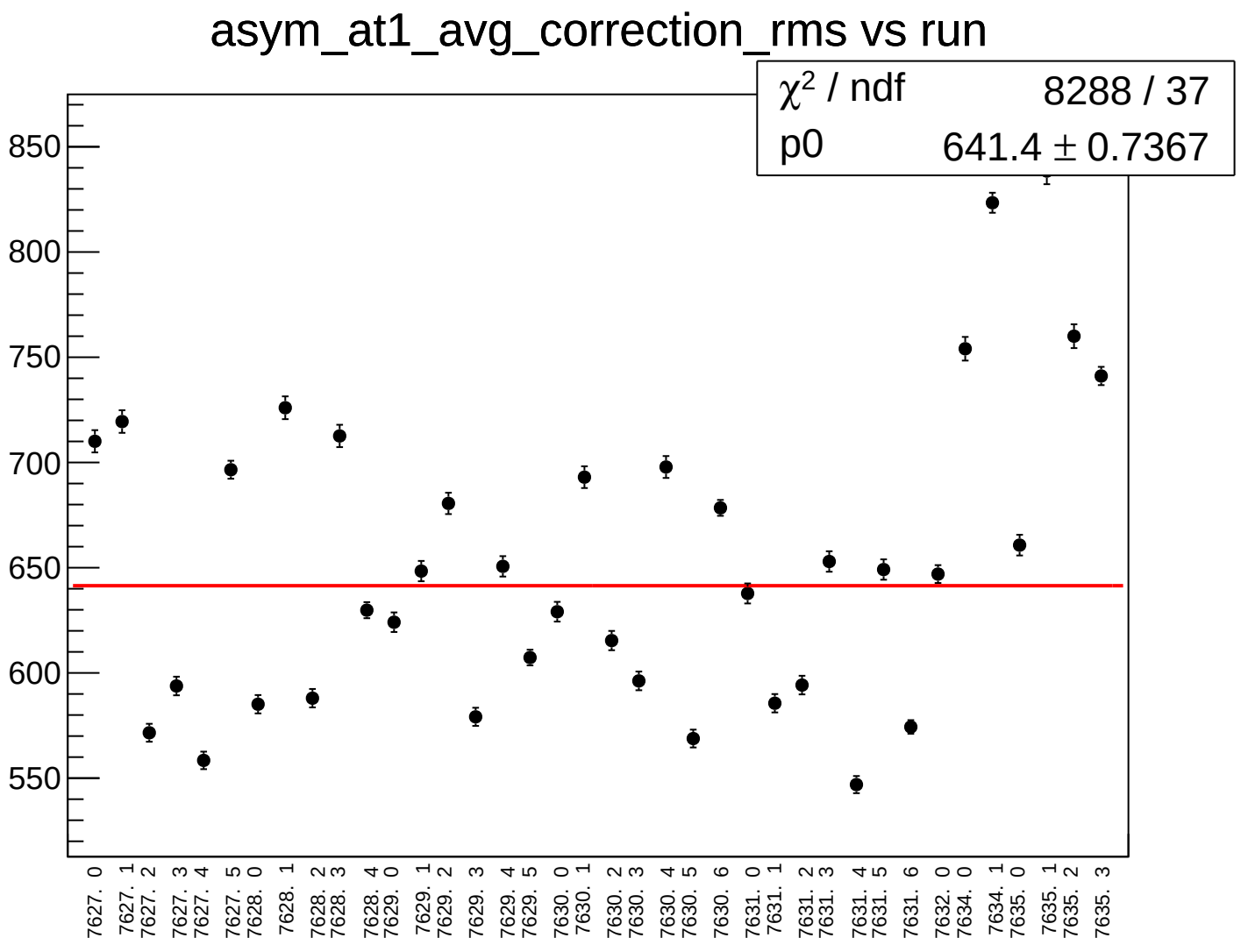

dit_asym_at1_avg_mean vs run
χ² / ndf 23.49 / 37
p0 −4074 ± 3274
60000
40000
20000
0
−20000
−40000
−60000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 1384
Std Dev 1367
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

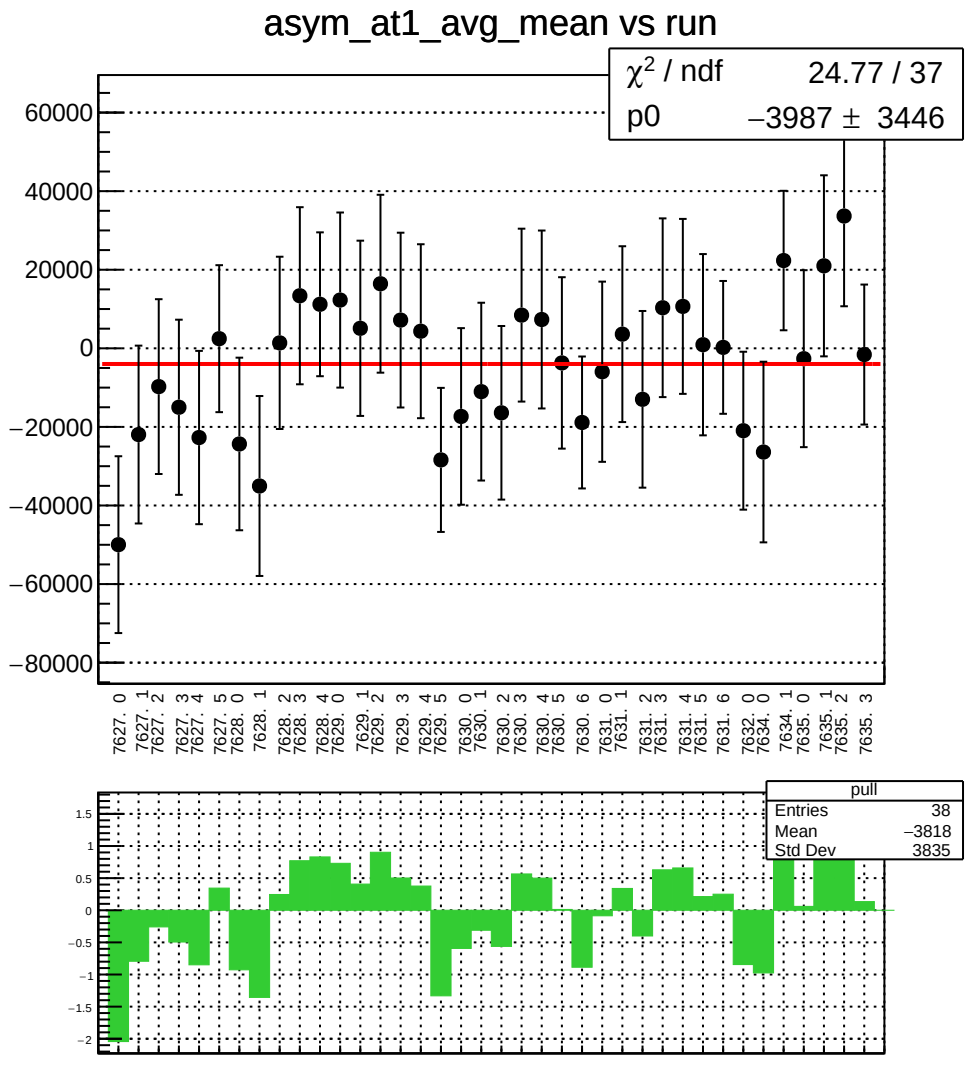

pull1D
Entries 38
Mean 0.002226
Std Dev 0.7863
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

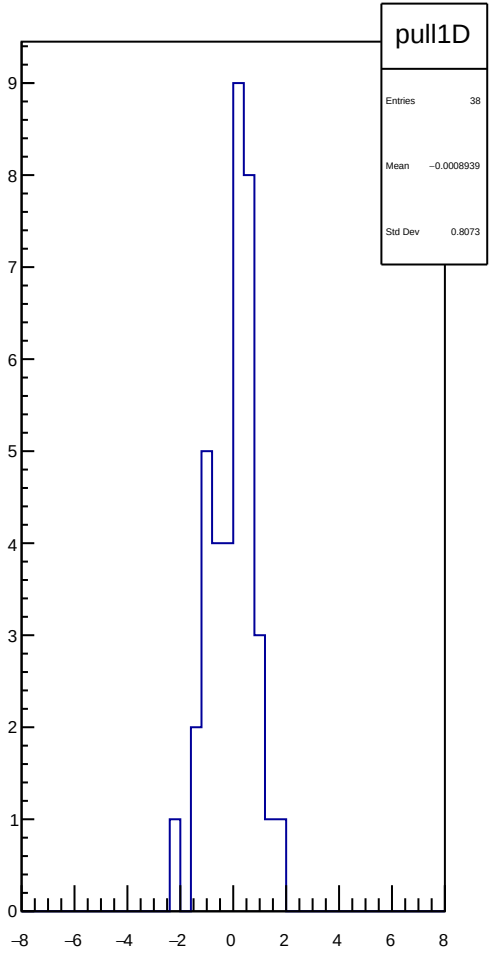

dit_asym_at1_avg_rms vs run
χ² / ndf 91.62 / 37
p0 2026 ± 2.315
2100
2080
2060
2040
2020
2000
1980
1960
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

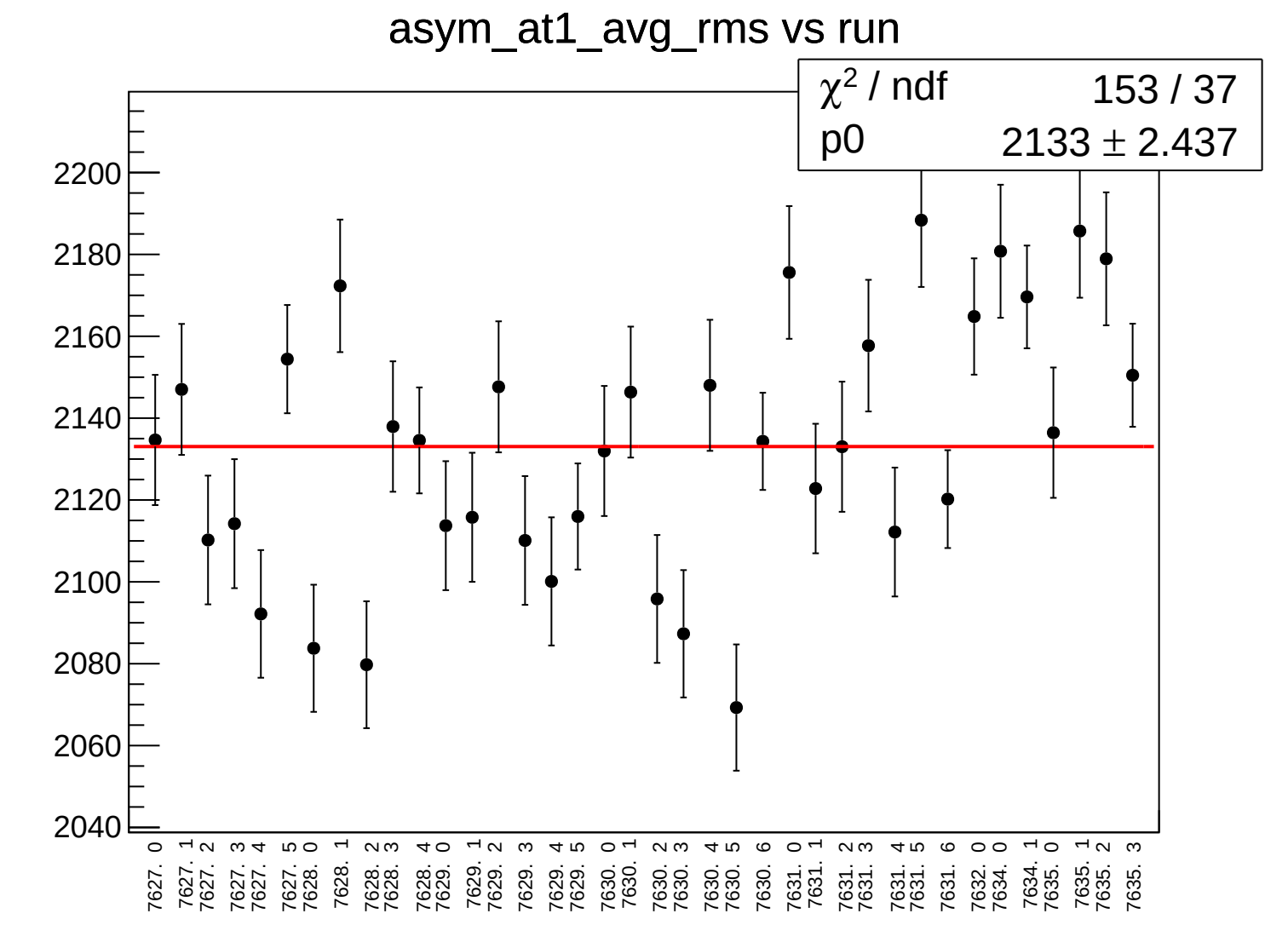

asym_at1_avg_correction_mean vs run
χ² / ndf 37.88 / 37
p0 387.5 ± 1042
20000
10000
0
−10000
−20000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 72.1
Std Dev 49.07
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

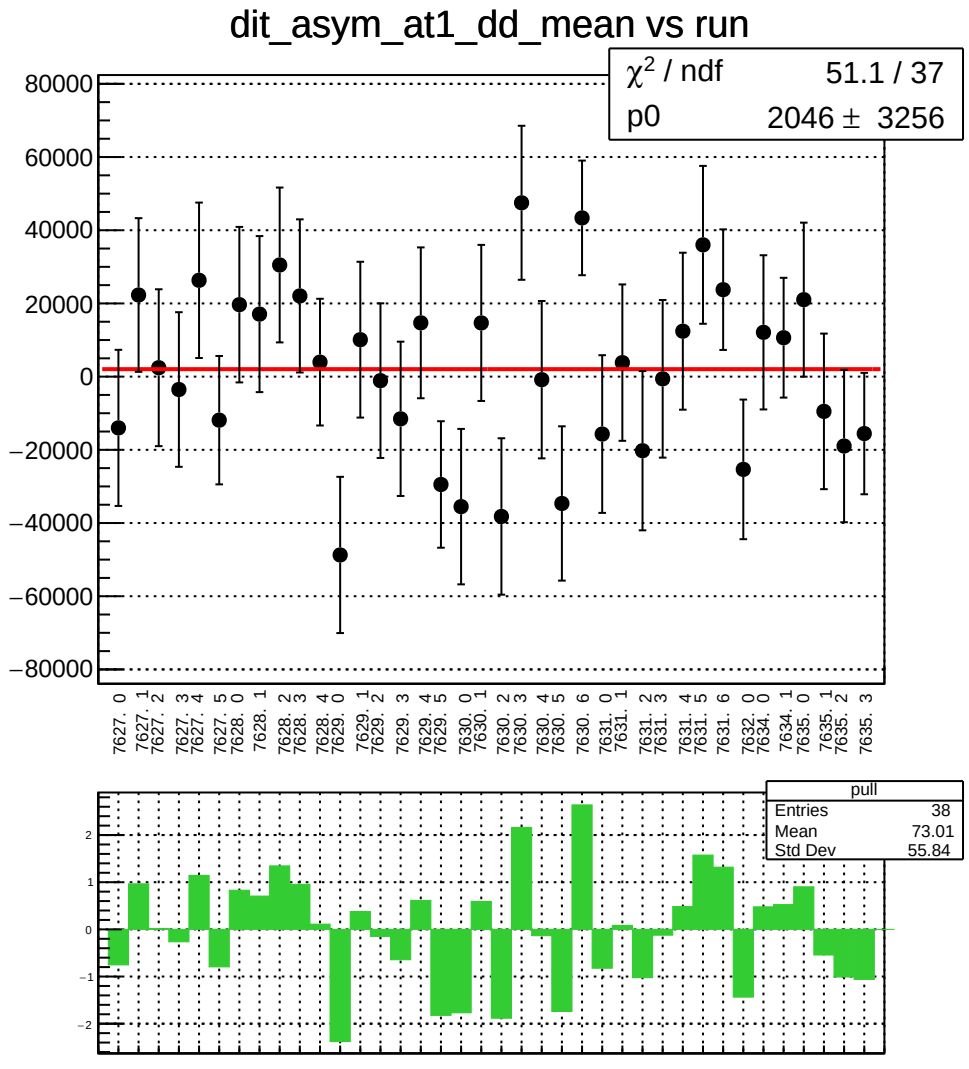

pull1D
Entries 38
Mean −0.02797
Std Dev 0.998
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

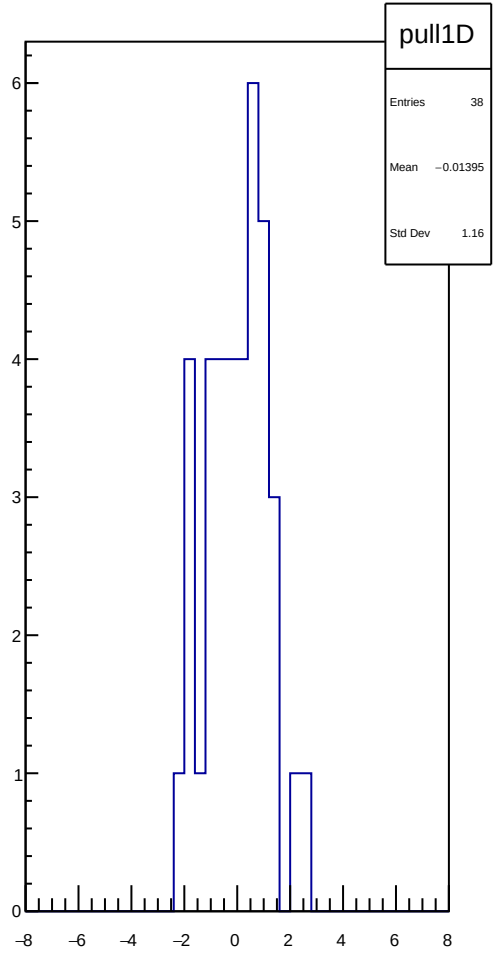

asym_at1_avg_correction_rms vs run
χ² / ndf 8288 / 37
p0 641.4 ± 0.7367
850
800
750
700
650
600
550
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

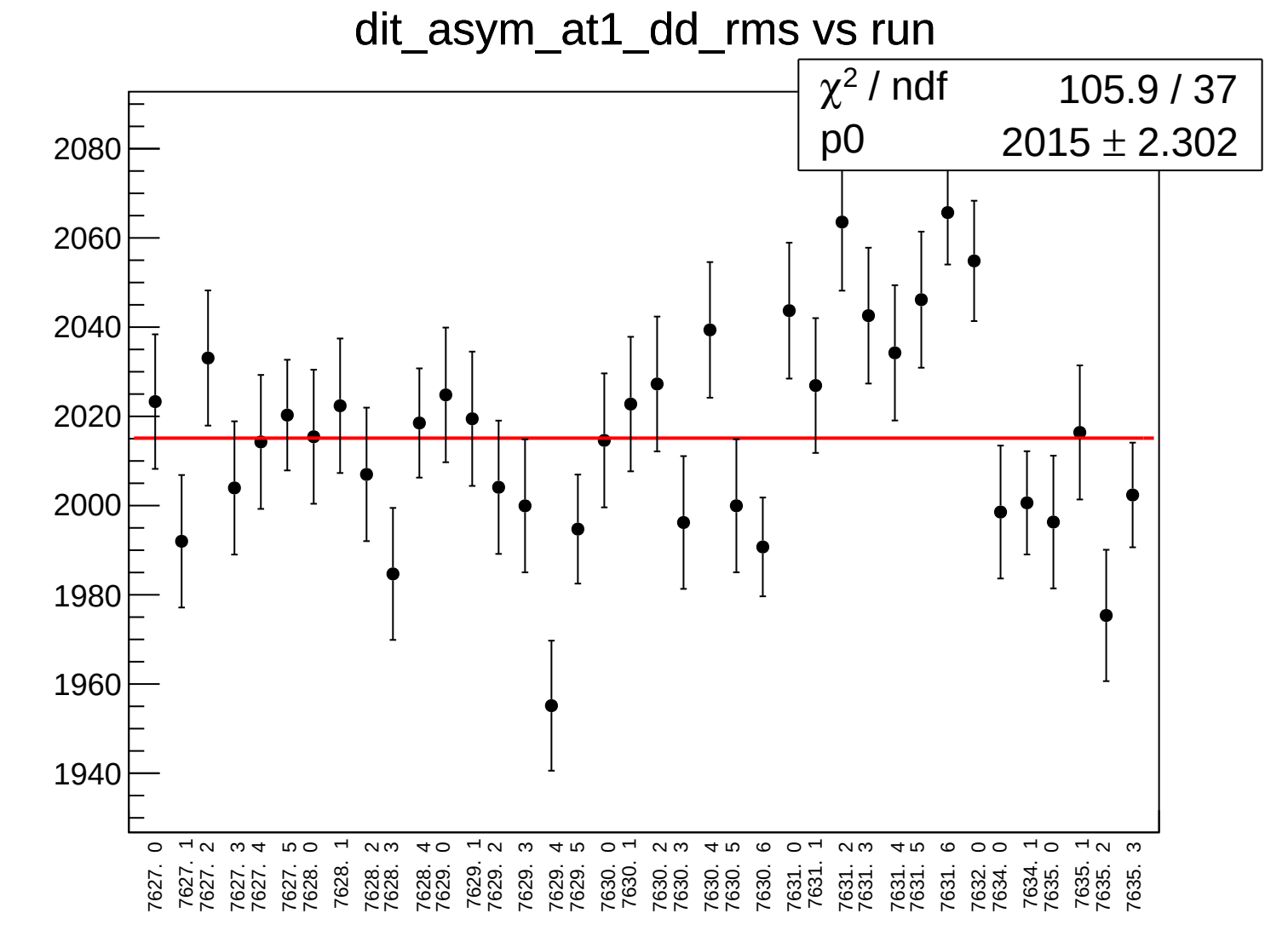

asym_at1_avg_mean vs run
χ² / ndf 24.77 / 37
p0 −3987 ± 3446
60000
40000
20000
0
−20000
−40000
−60000
−80000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −3818
Std Dev 3835
1.5
1
0.5
0
−0.5
−1
−1.5
−2

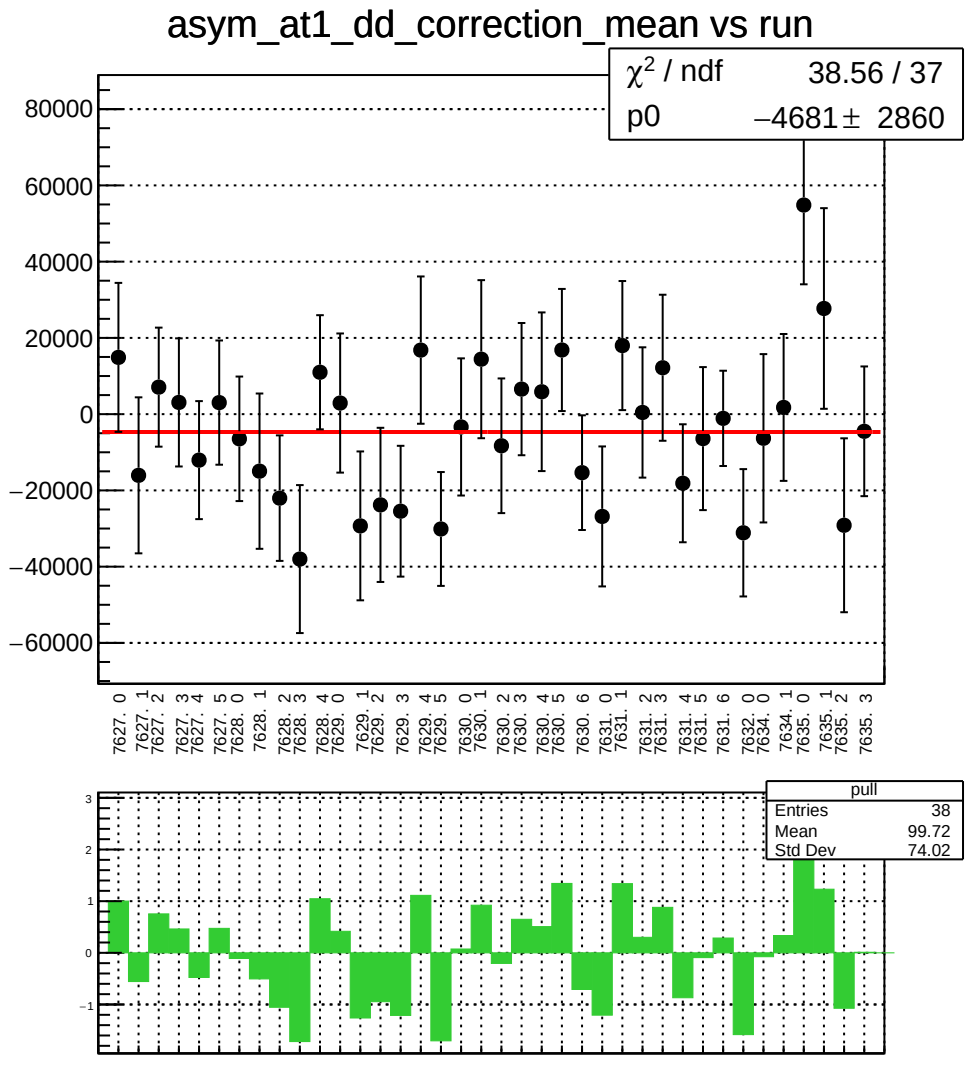

pull1D
Entries 38
Mean −0.0008939
Std Dev 0.8073
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

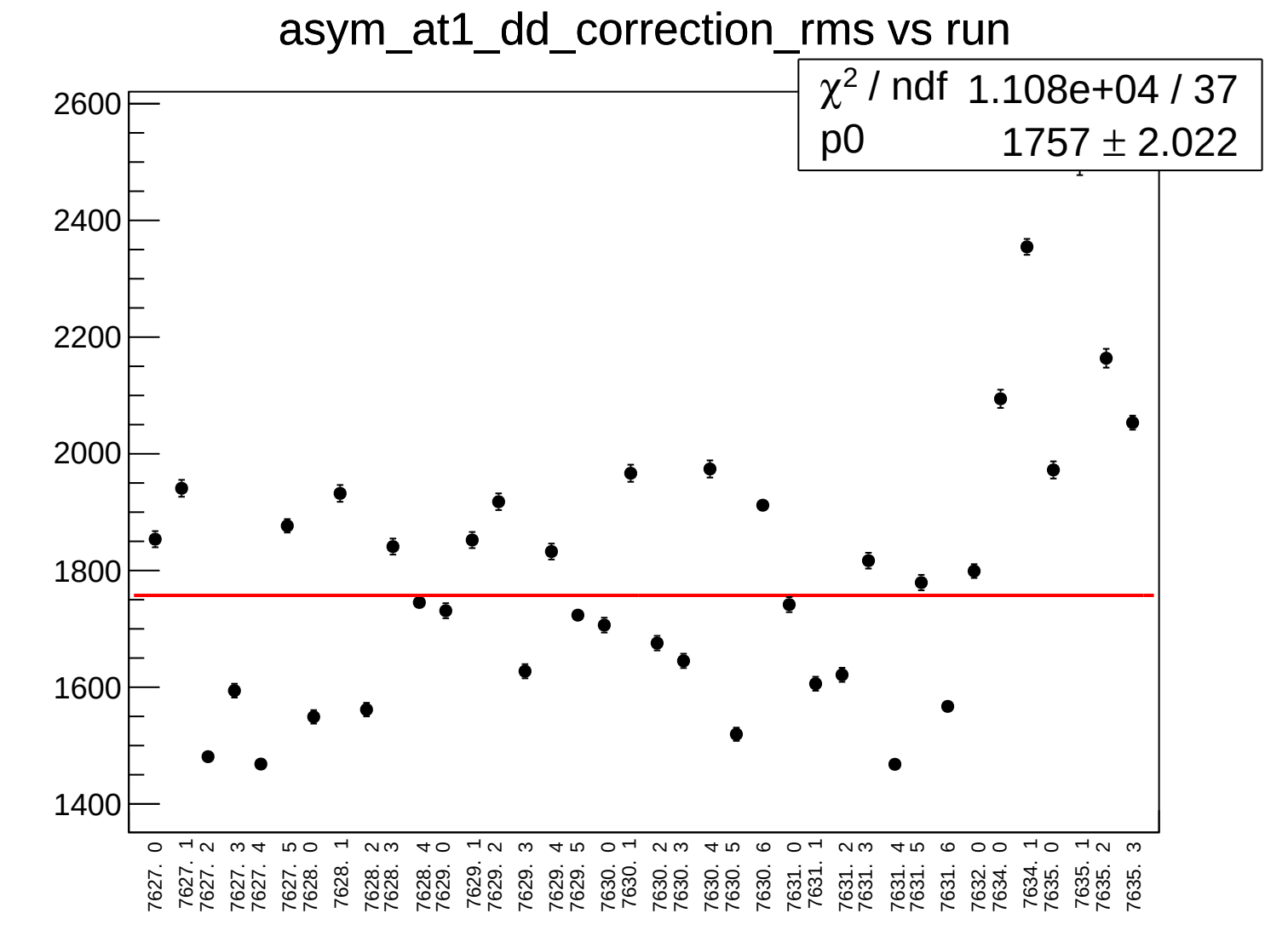

asym_at1_avg_rms vs run
χ² / ndf 153 / 37
p0 2133 ± 2.437
2200
2180
2160
2140
2120
2100
2080
2060
2040
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

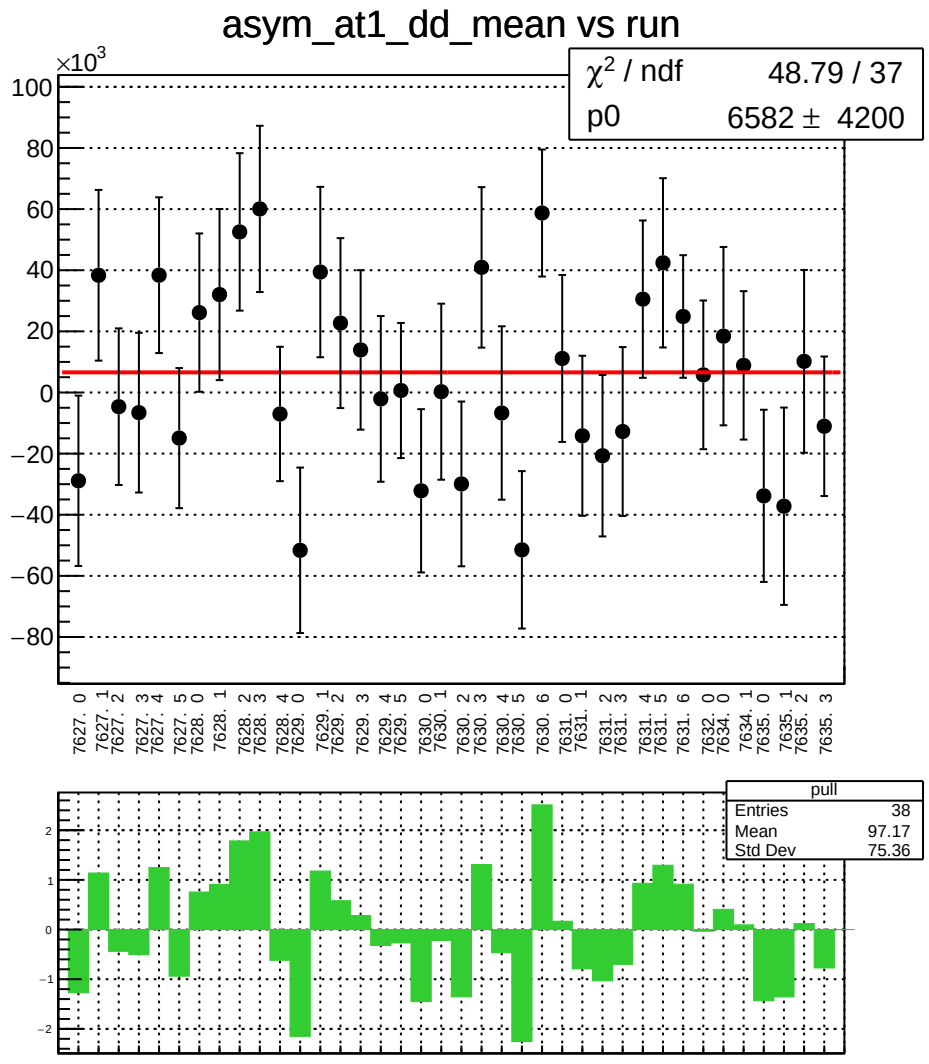

dit_asym_at1_dd_mean vs run
χ² / ndf 51.1 / 37
p0 2046 ± 3256
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 73.01
Std Dev 55.84
2
1
0
−1
−2

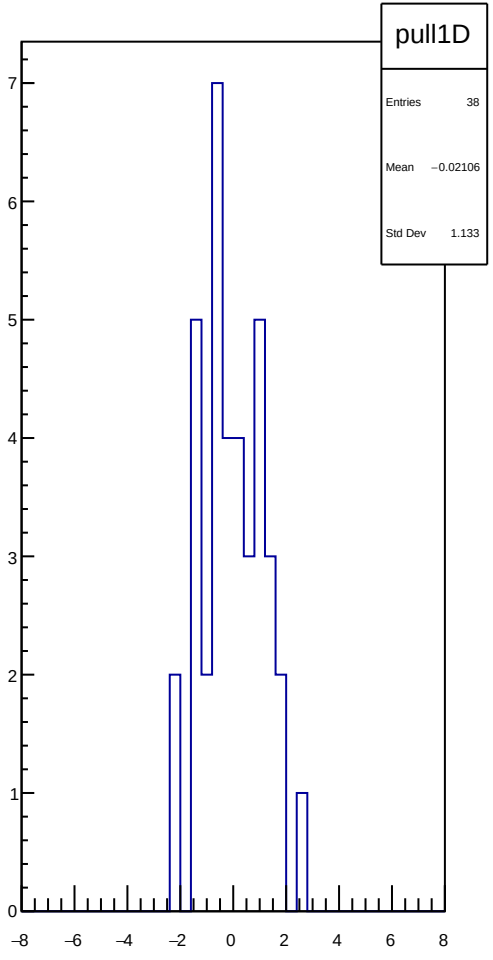

pull1D
Entries 38
Mean −0.01395
Std Dev 1.16
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

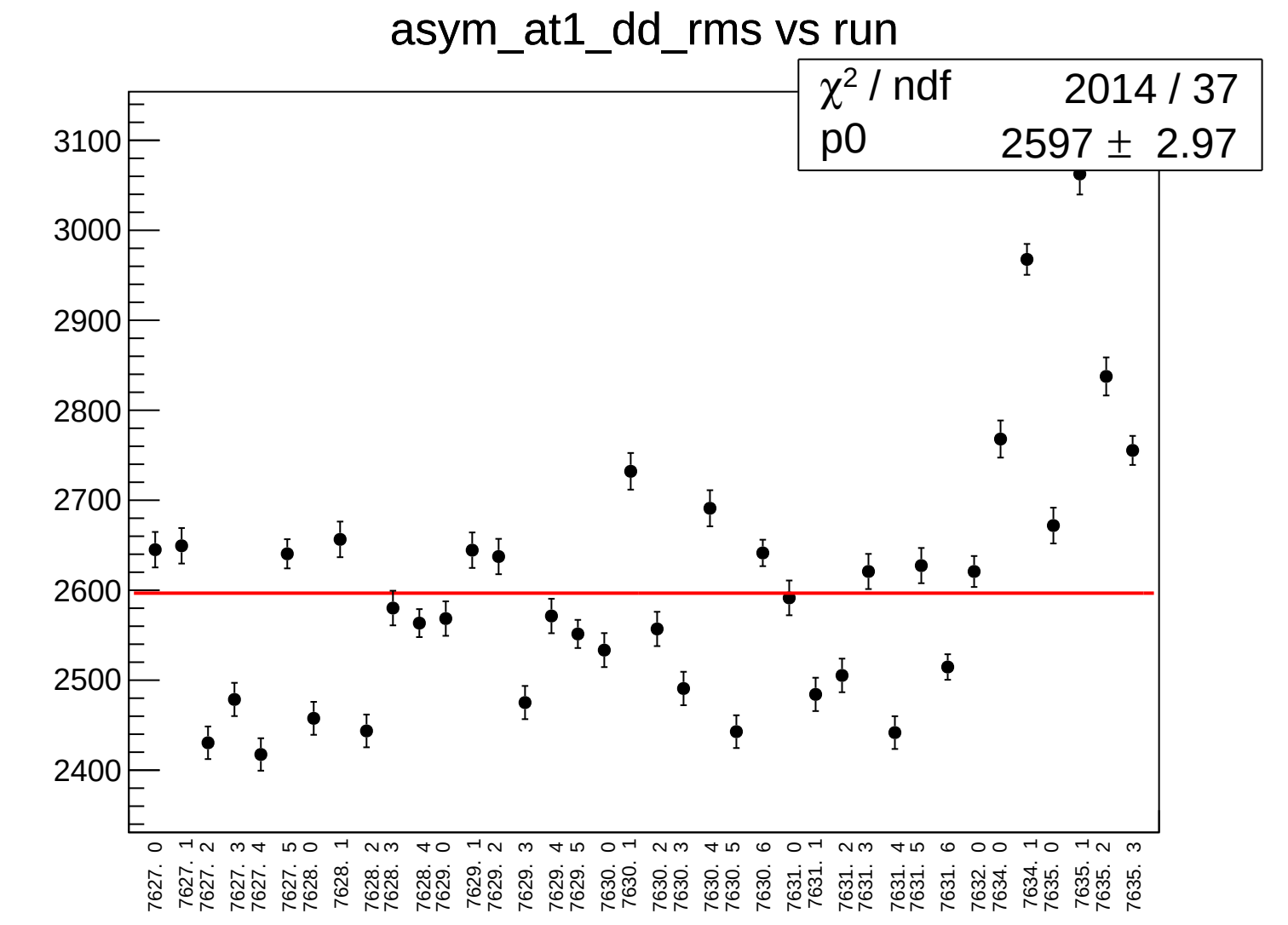

dit_asym_at1_dd_rms vs run
χ² / ndf 105.9 / 37
p0 2015 ± 2.302
2080
2060
2040
2020
2000
1980
1960
1940
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

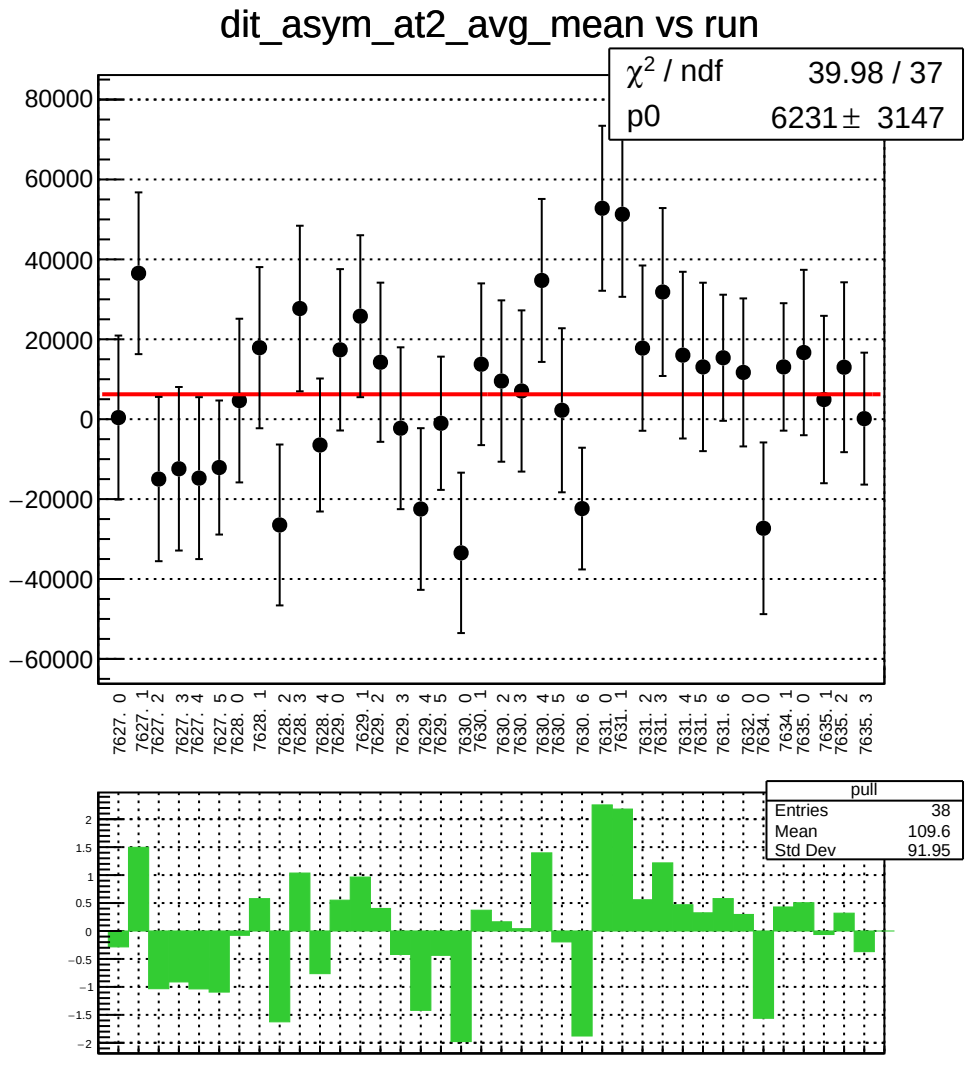

asym_at1_dd_correction_mean vs run
χ² / ndf 38.56 / 37
p0 −4681 ± 2860
80000
60000
40000
20000
0
−20000
−40000
−60000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 4
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 99.72
Std Dev 74.02
3
2
1
0
−1
pull1D
Entries 38
Mean 0.01727
Std Dev 1.007
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

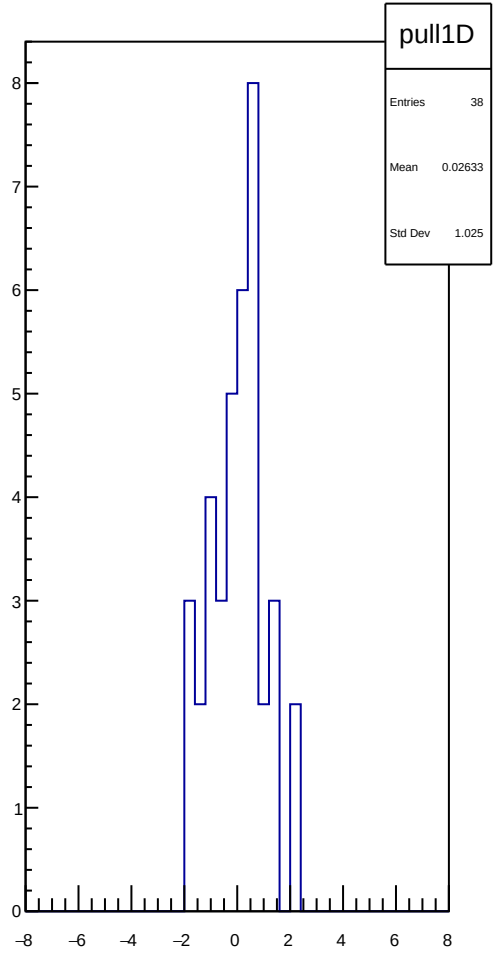

asym_at1_dd_correction_rms vs run
χ² / ndf 1.108e+04 / 37
p0 1757 ± 2.022
2600
2400
2200
2000
1800
1600
1400
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

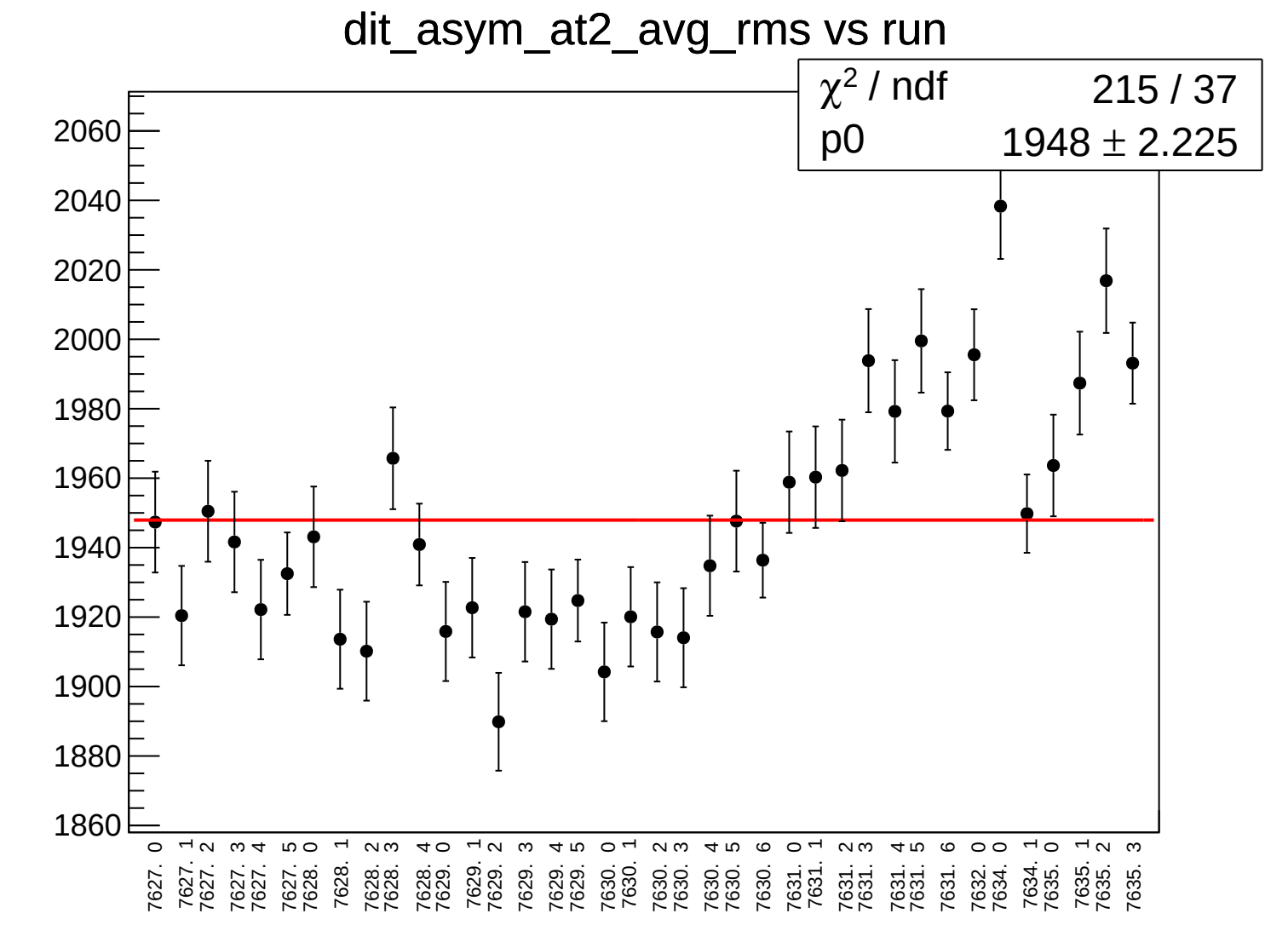

asym_at1_dd_mean vs run
×10^3
χ^2 / ndf 48.79 / 37
p0 6582 ± 4200
pull
Entries 38
Mean 97.17
Std Dev 75.36

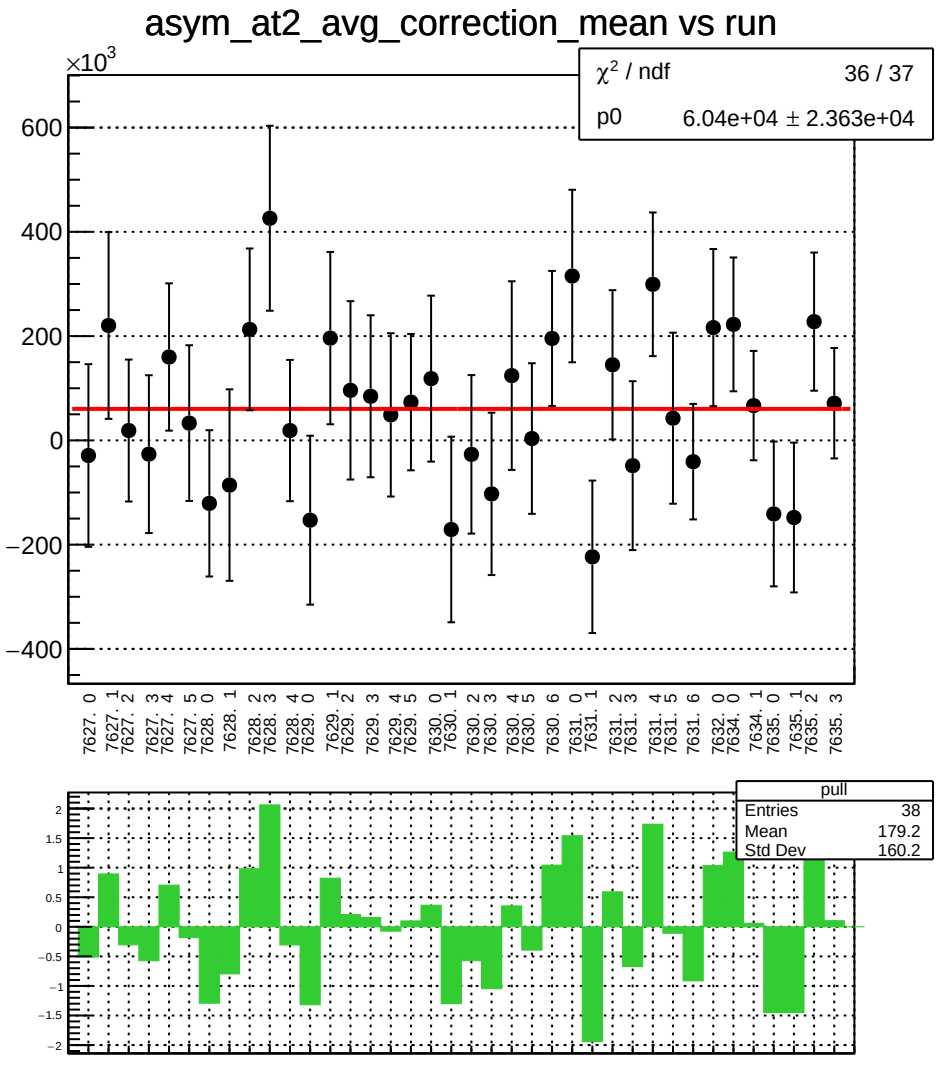

pull1D
Entries 38
Mean −0.02106
Std Dev 1.133

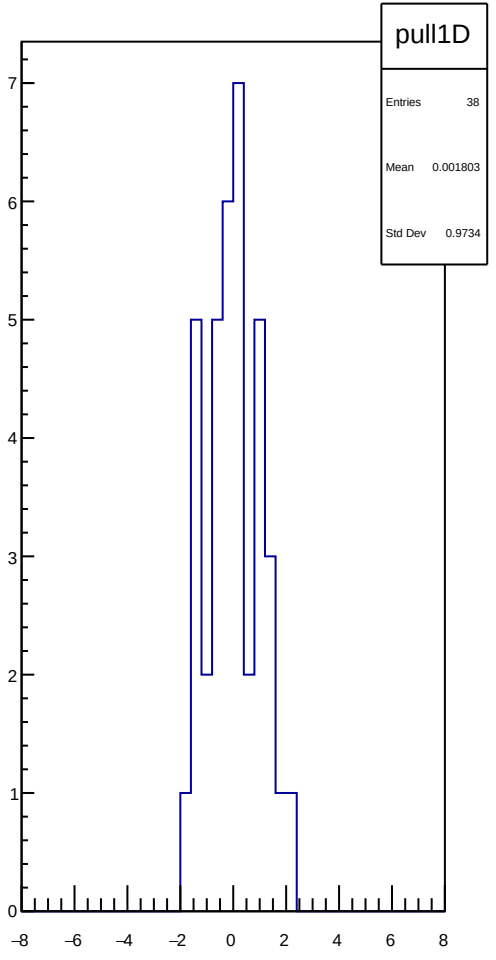

asym_at1_dd_rms vs run
χ² / ndf 2014 / 37
p0 2597 ± 2.97
3100
3000
2900
2800
2700
2600
2500
2400
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

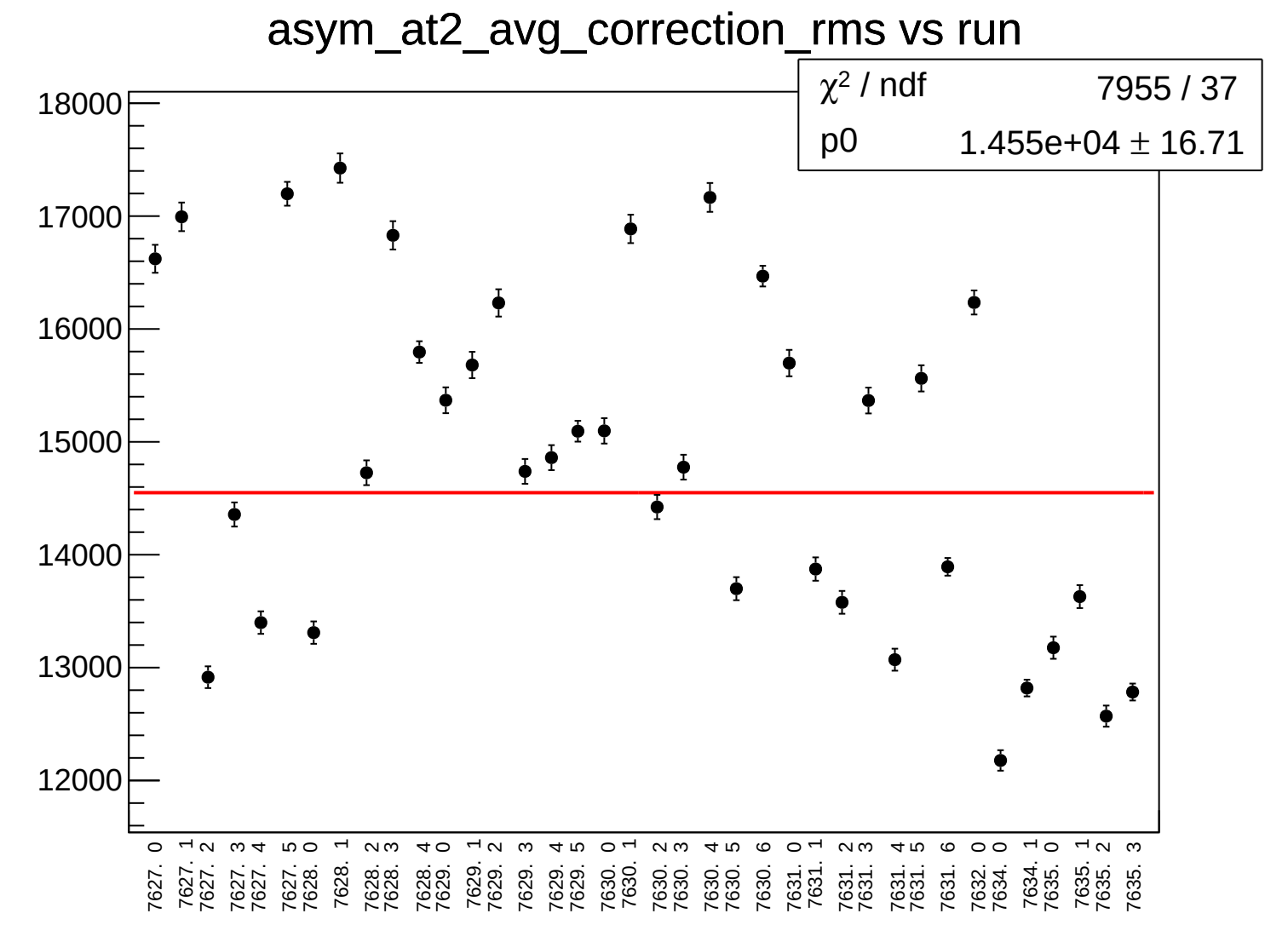

dit_asym_at2_avg_mean vs run
χ² / ndf 39.98 / 37
p0 6231 ± 3147
80000
60000
40000
20000
0
−20000
−40000
−60000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 109.6
Std Dev 91.95
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

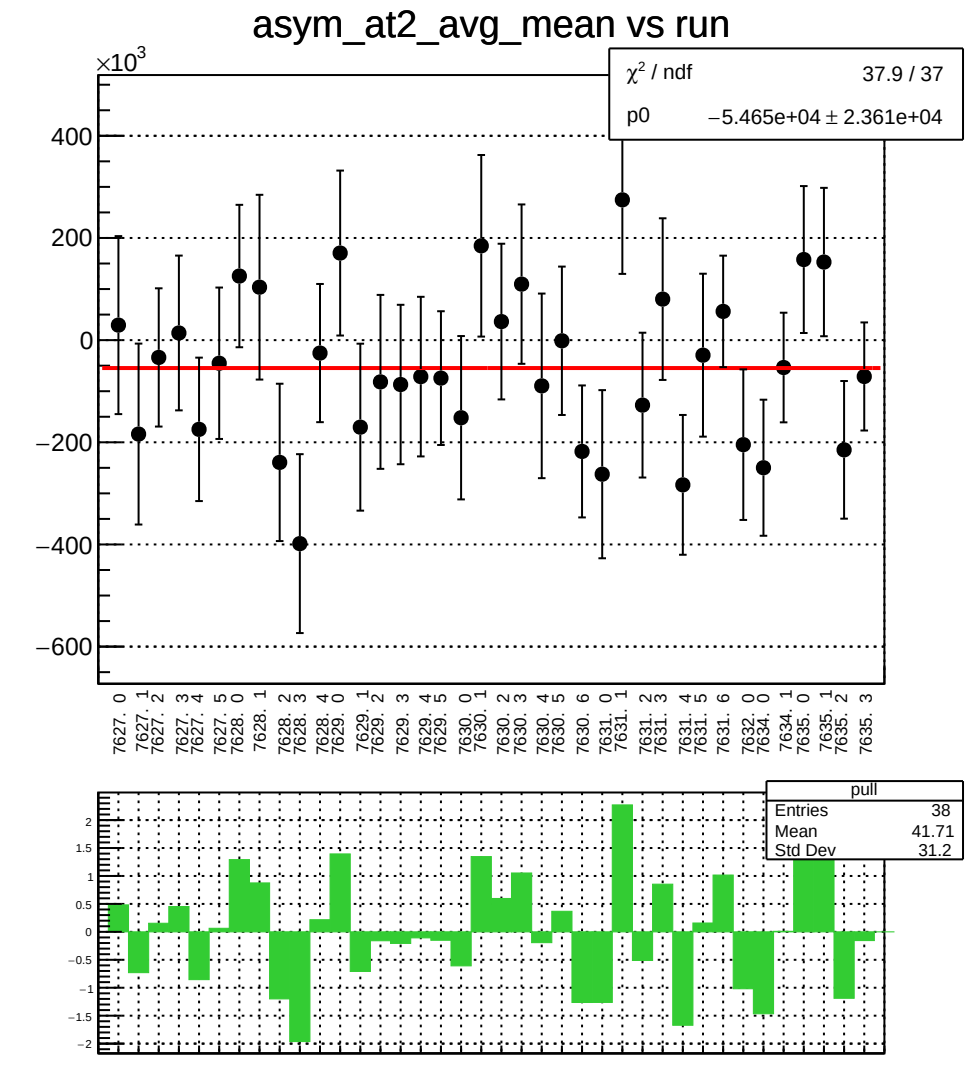

pull1D
Entries 38
Mean 0.02633
Std Dev 1.025
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

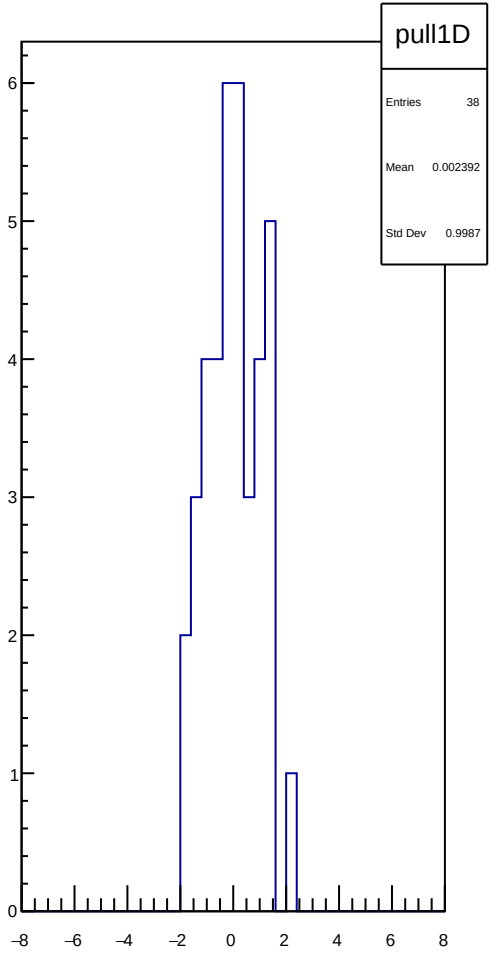

dit_asym_at2_avg_rms vs run
χ² / ndf 215 / 37
p0 1948 ± 2.225
2060
2040
2020
2000
1980
1960
1940
1920
1900
1880
1860
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

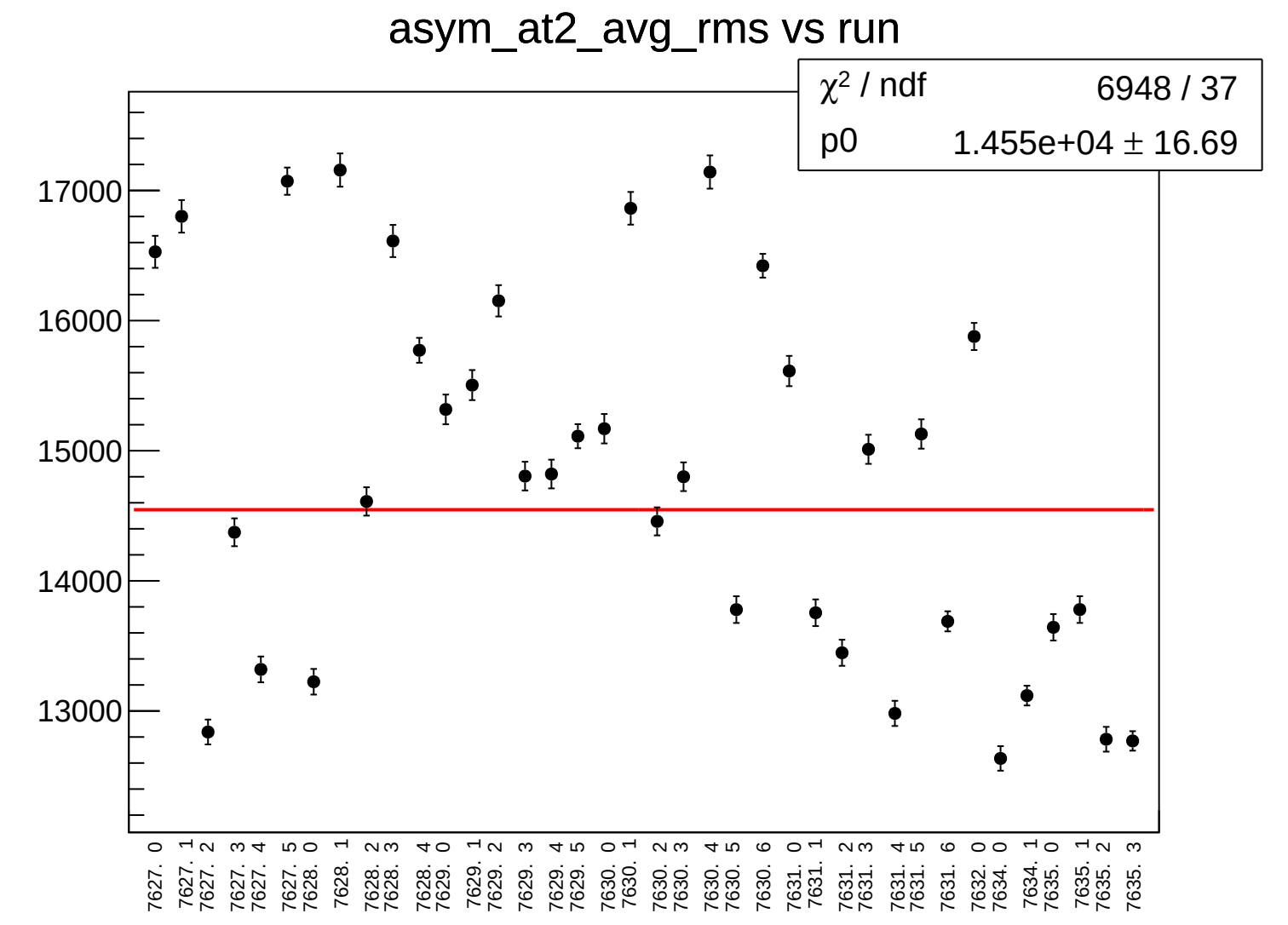

asym_at2_avg_correction_mean vs run
×10^3
χ² / ndf 36 / 37
p0 6.04e+04 ± 2.363e+04
600
400
200
0
−200
−400
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 179.2
Std Dev 160.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

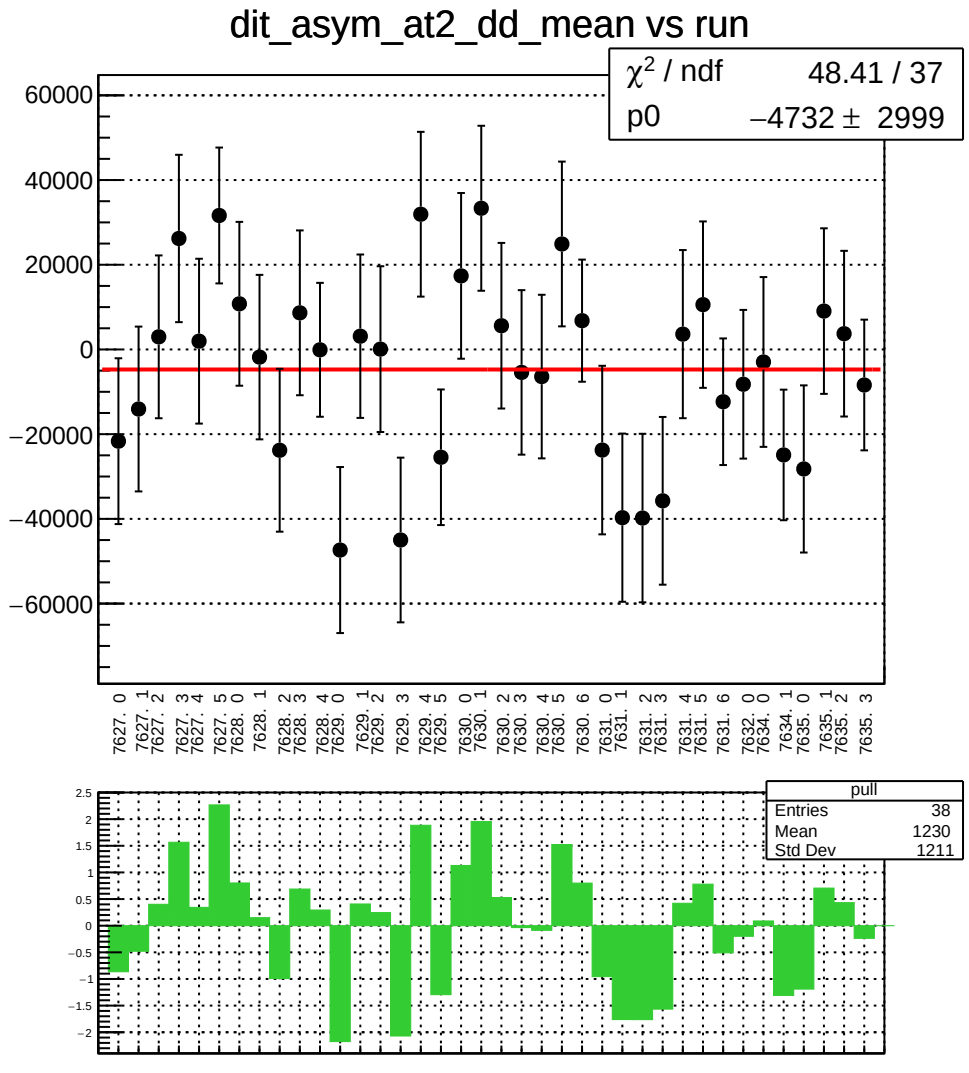

pull1D
Entries 38
Mean 0.001803
Std Dev 0.9734
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

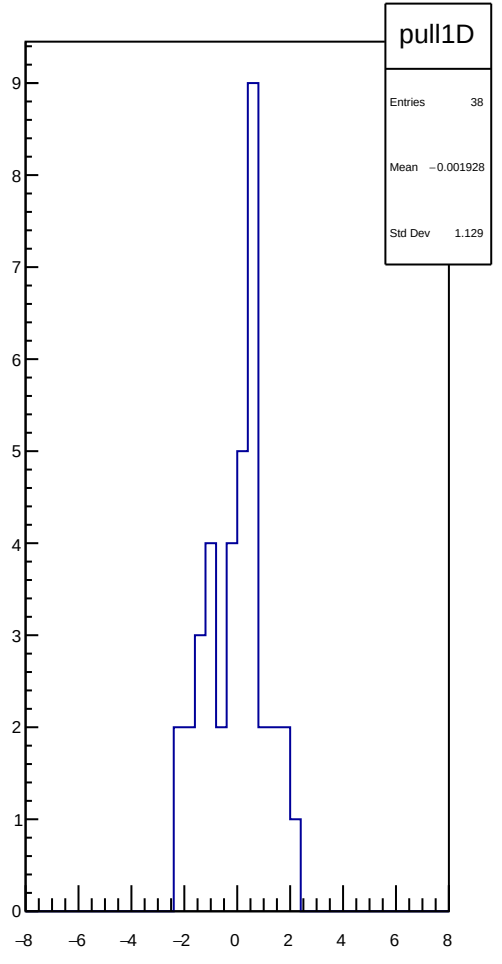

asym_at2_avg_correction_rms vs run
χ² / ndf 7955 / 37
p0 1.455e+04 ± 16.71
18000
17000
16000
15000
14000
13000
12000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

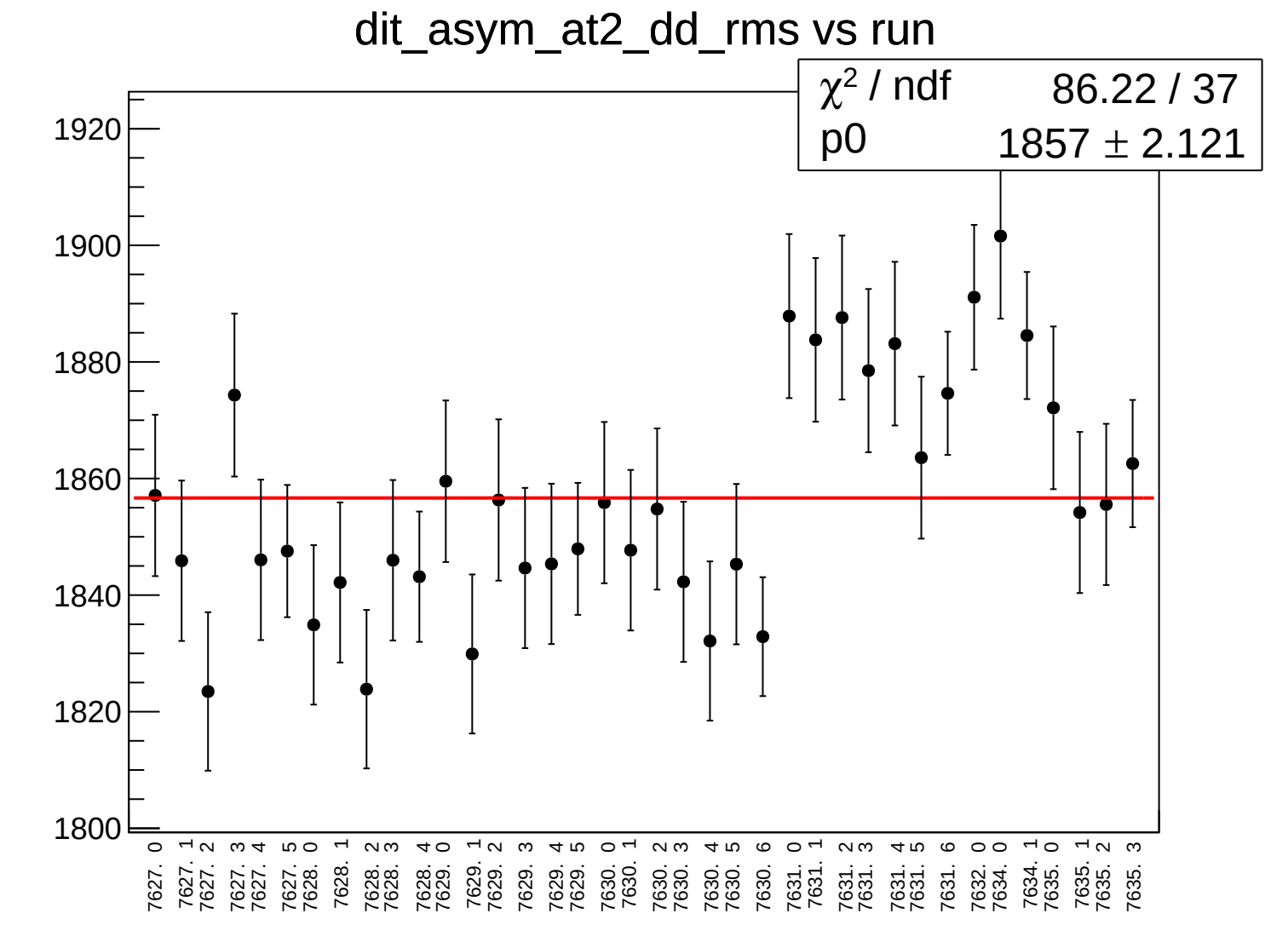

asym_at2_avg_mean vs run
×10^3
χ² / ndf 37.9 / 37
p0 −5.465e+04 ± 2.361e+04
400
200
0
−200
−400
−600
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 41.71
Std Dev 31.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

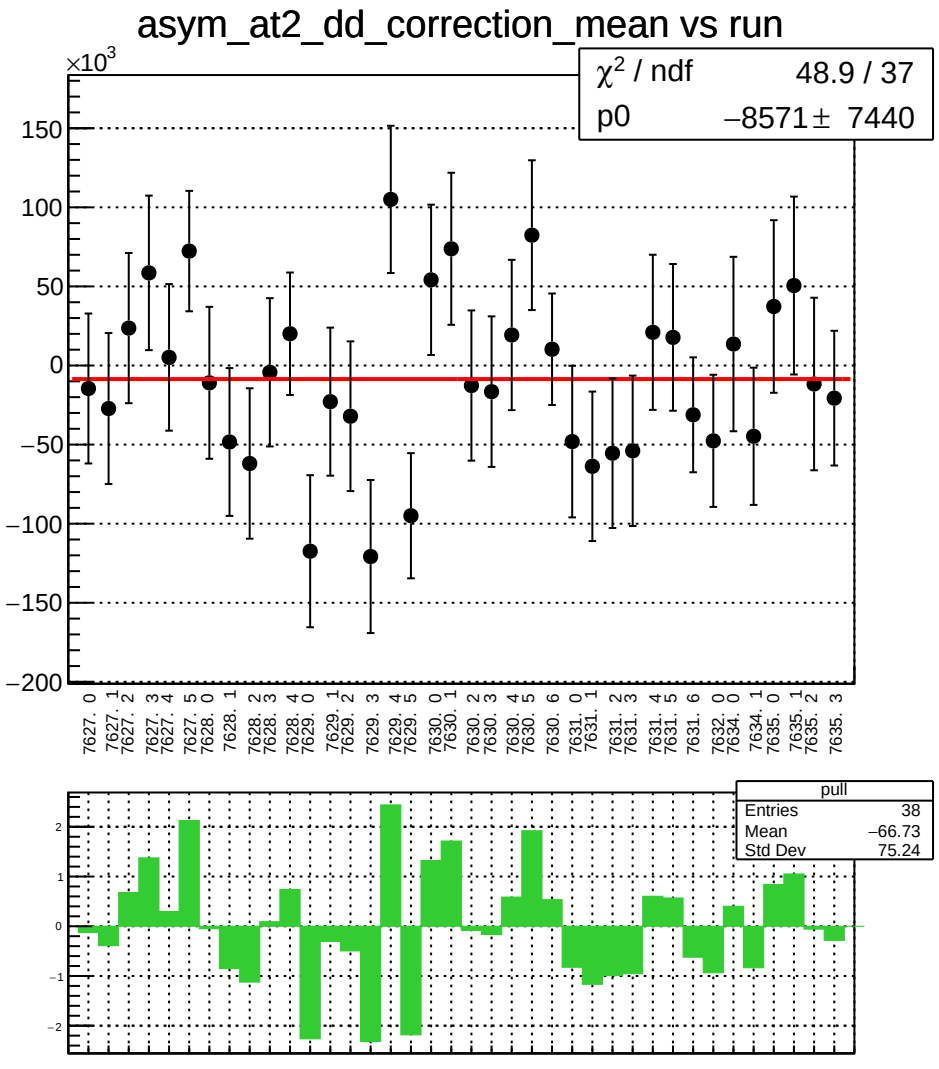

pull1D
Entries 38
Mean 0.002392
Std Dev 0.9987
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

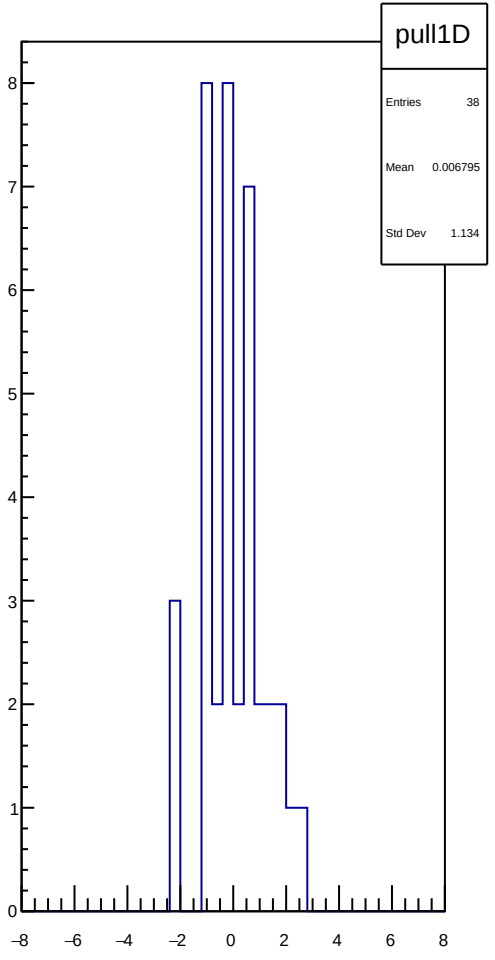

asym_at2_avg_rms vs run
χ² / ndf 6948 / 37
p0 1.455e+04 ± 16.69
17000
16000
15000
14000
13000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

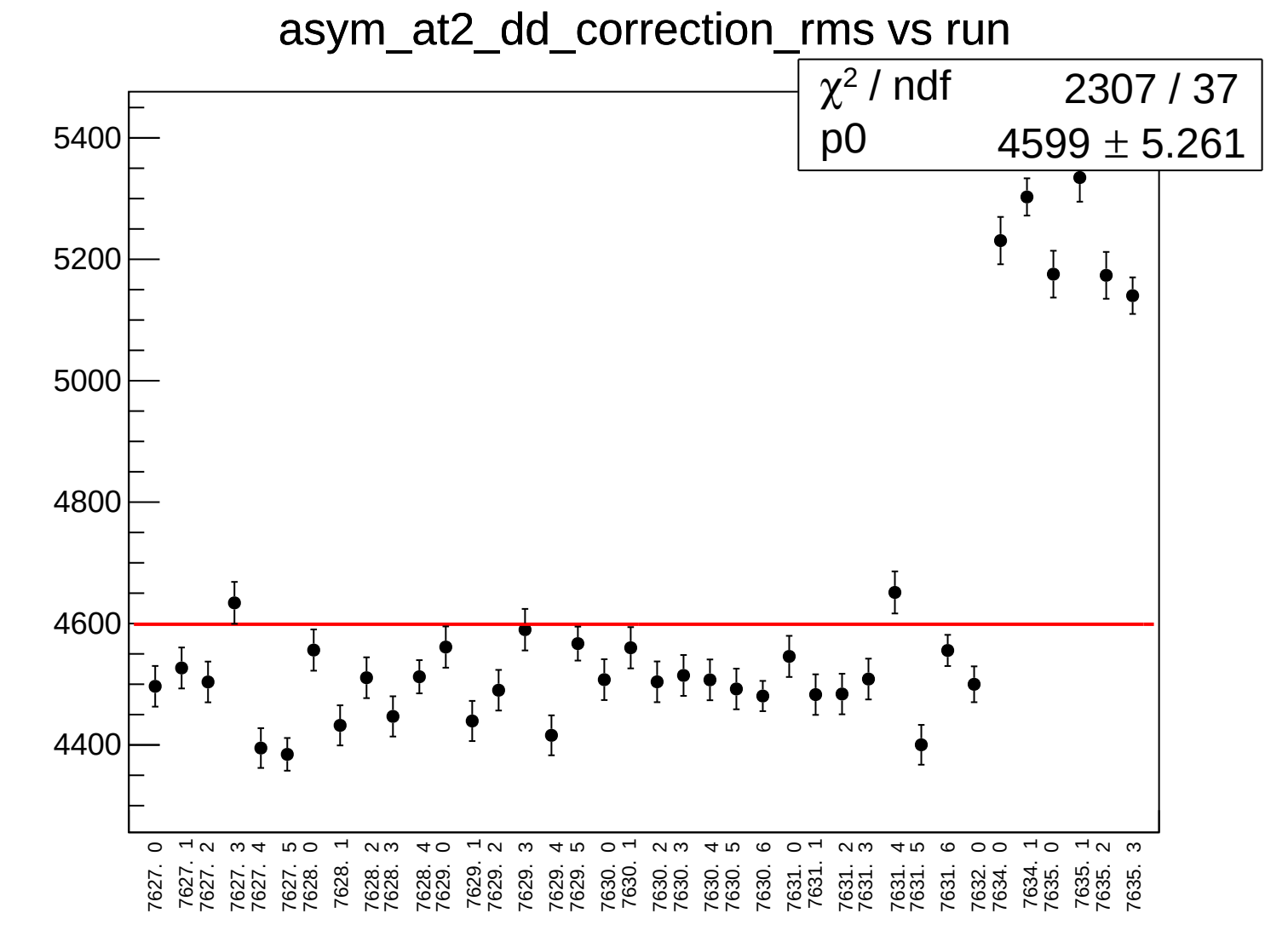

dit_asym_at2_dd_mean vs run
χ² / ndf 48.41 / 37
p0 −4732 ± 2999
60000
40000
20000
0
−20000
−40000
−60000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 4
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 1230
Std Dev 1211
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

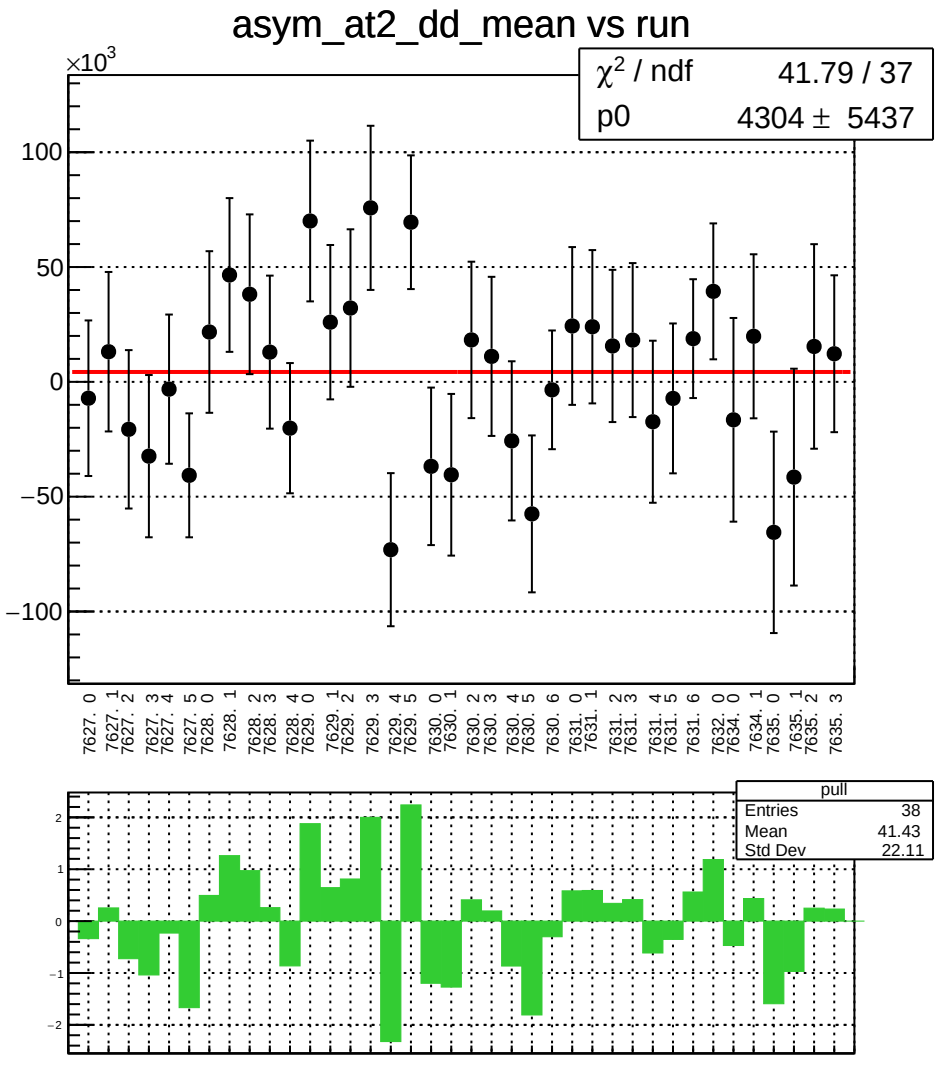

pull1D
Entries 38
Mean −0.001928
Std Dev 1.129
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

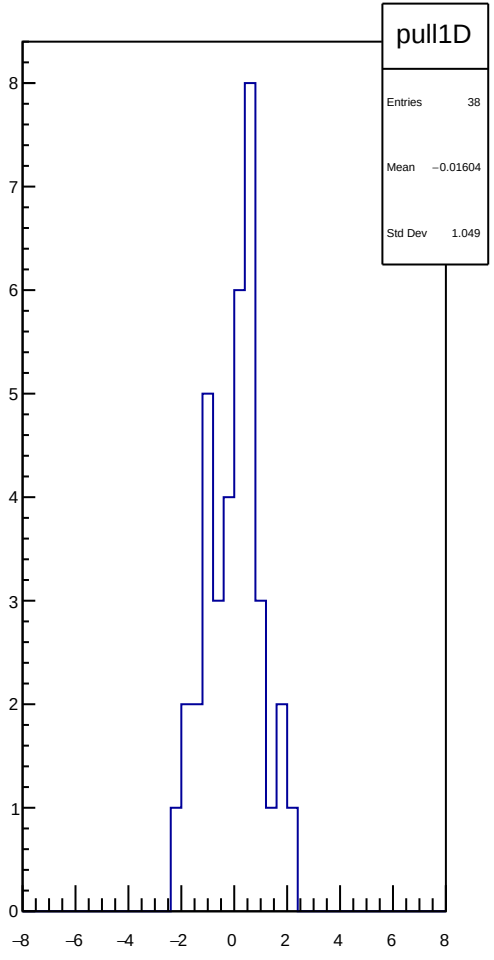

dit_asym_at2_dd_rms vs run
χ² / ndf 86.22 / 37
p0 1857 ± 2.121
1920
1900
1880
1860
1840
1820
1800
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

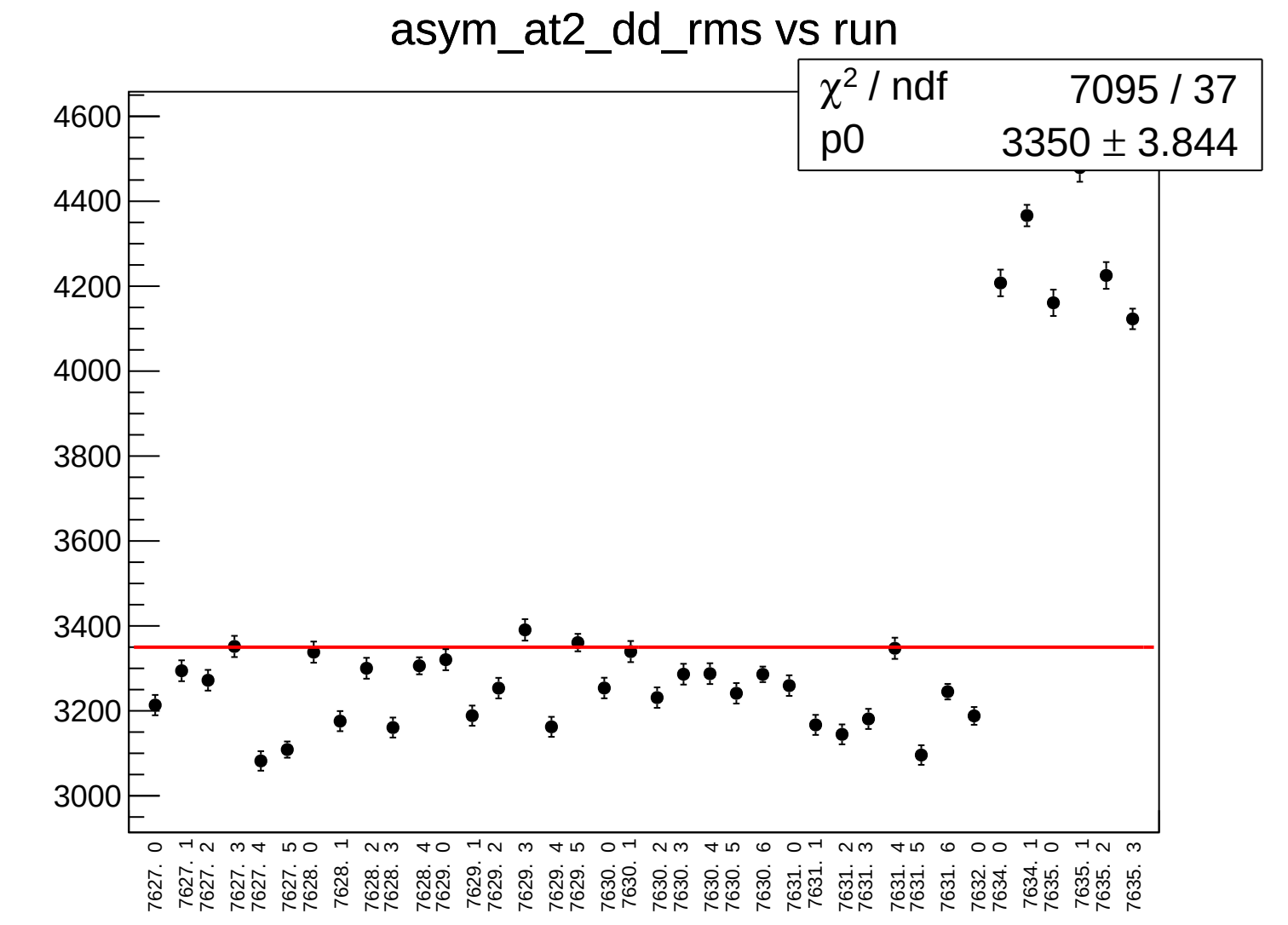

asym_at2_dd_correction_mean vs run
×10^3
χ^2 / ndf 48.9 / 37
p0 −8571 ± 7440
150
100
50
0
−50
−100
−150
−200
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −66.73
Std Dev 75.24
2
1
0
−1
−2

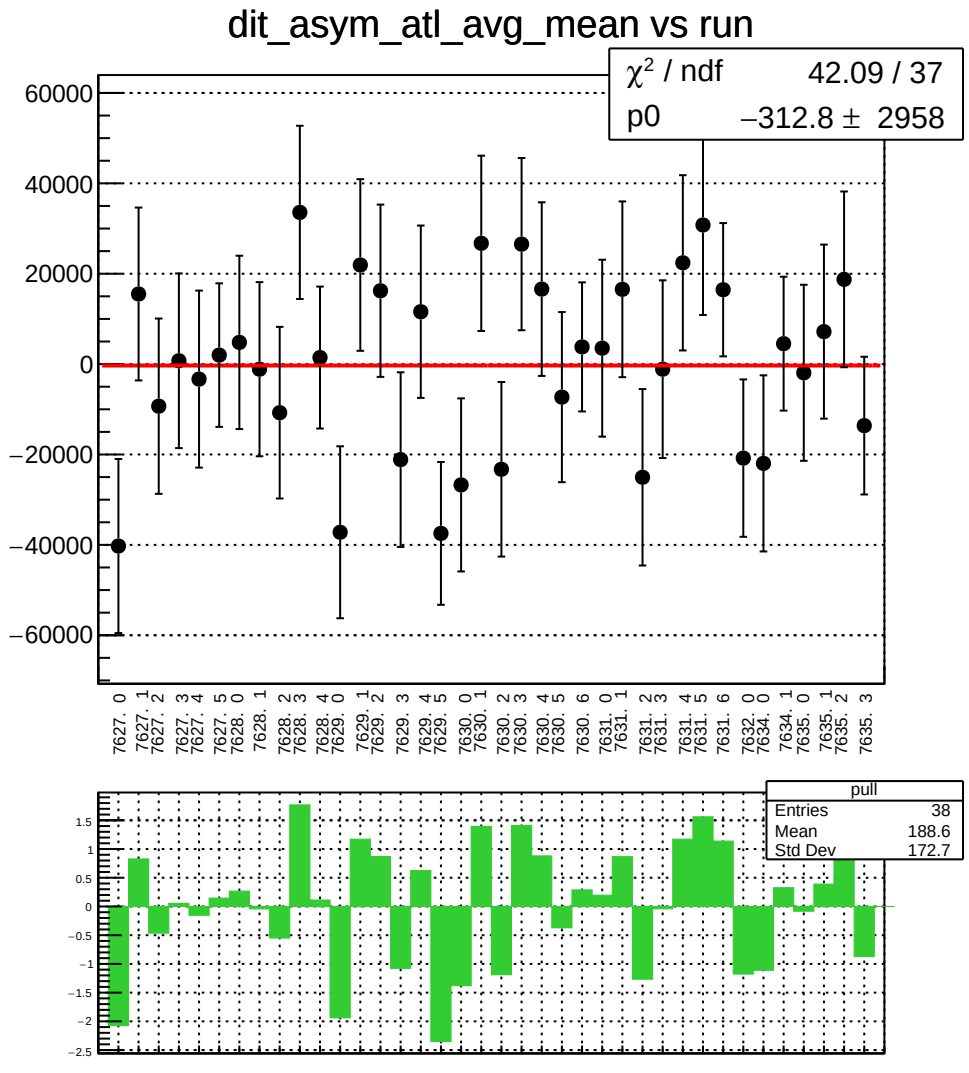

pull1D
Entries 38
Mean 0.006795
Std Dev 1.134
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

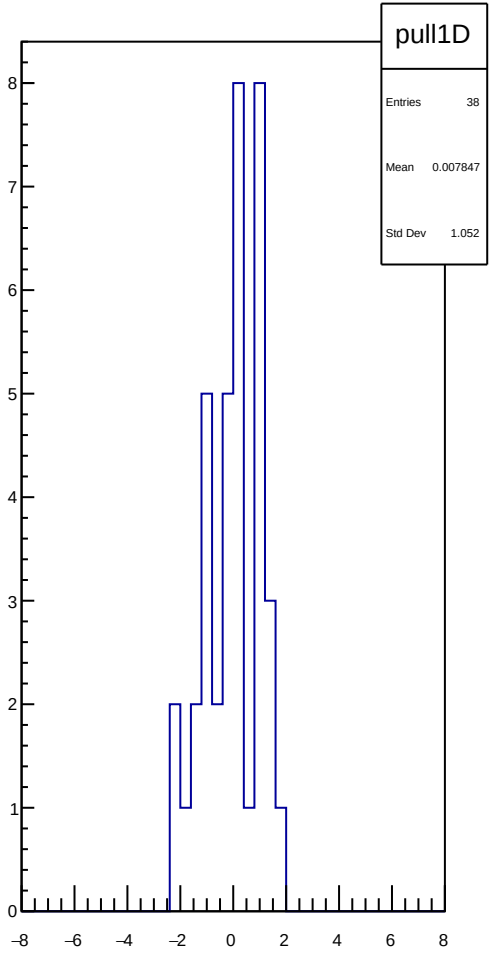

asym_at2_dd_correction_rms vs run
χ² / ndf 2307 / 37
p0 4599 ± 5.261
5400
5200
5000
4800
4600
4400
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

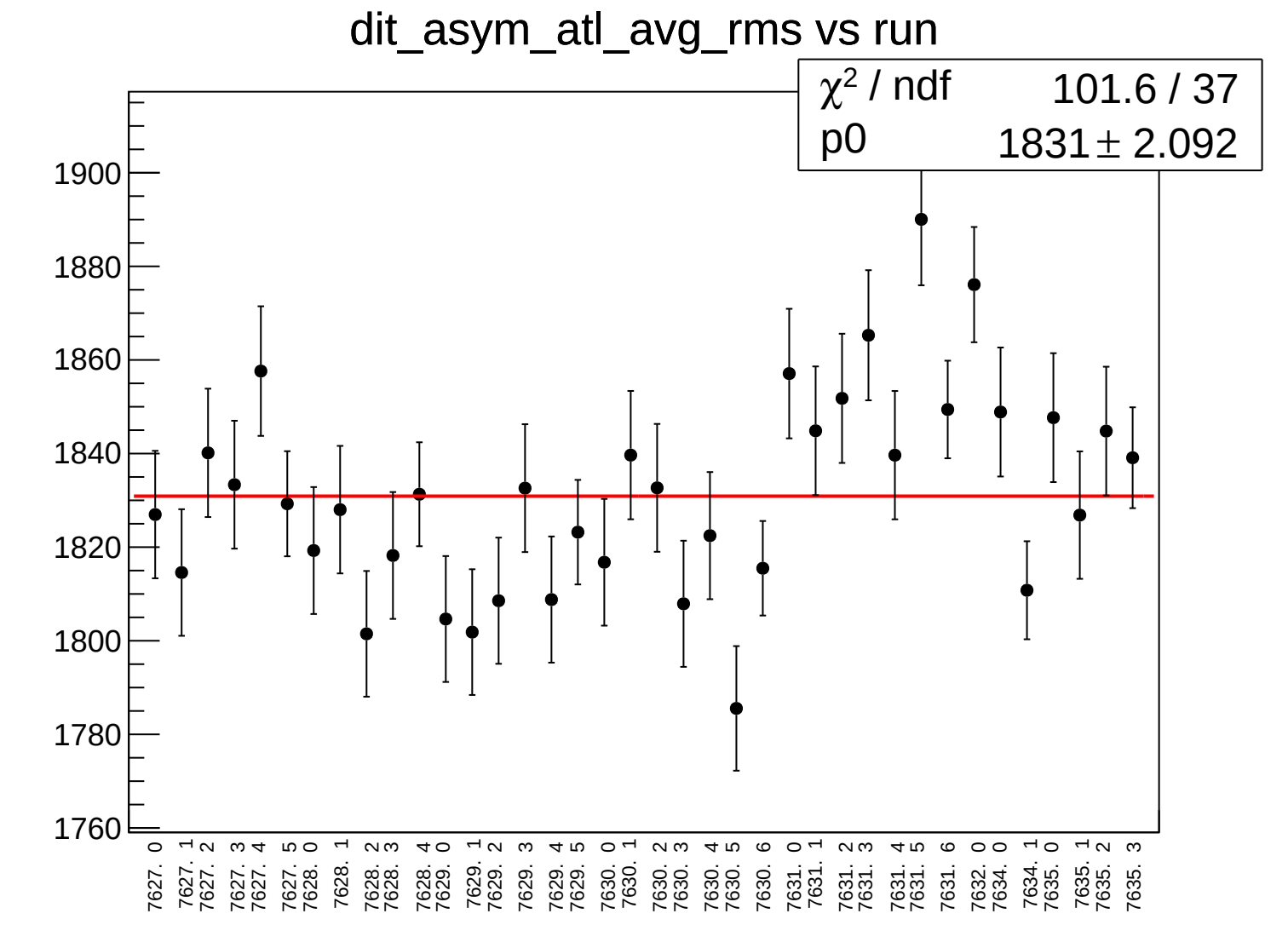

asym_at2_dd_mean vs run
×10^3
χ² / ndf 41.79 / 37
p0 4304 ± 5437
100
50
0
−50
−100
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 41.43
Std Dev 22.11
2
1
0
−1
−2

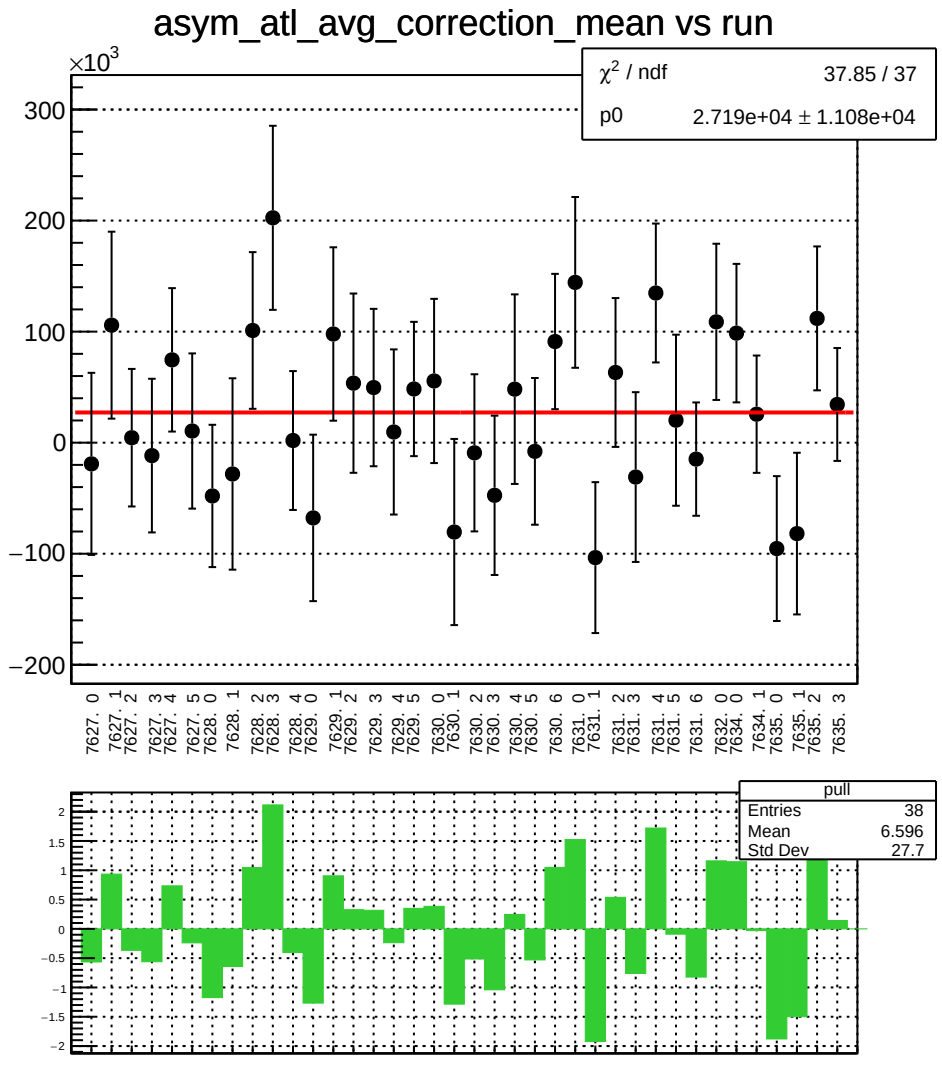

pull1D
Entries 38
Mean −0.01604
Std Dev 1.049
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

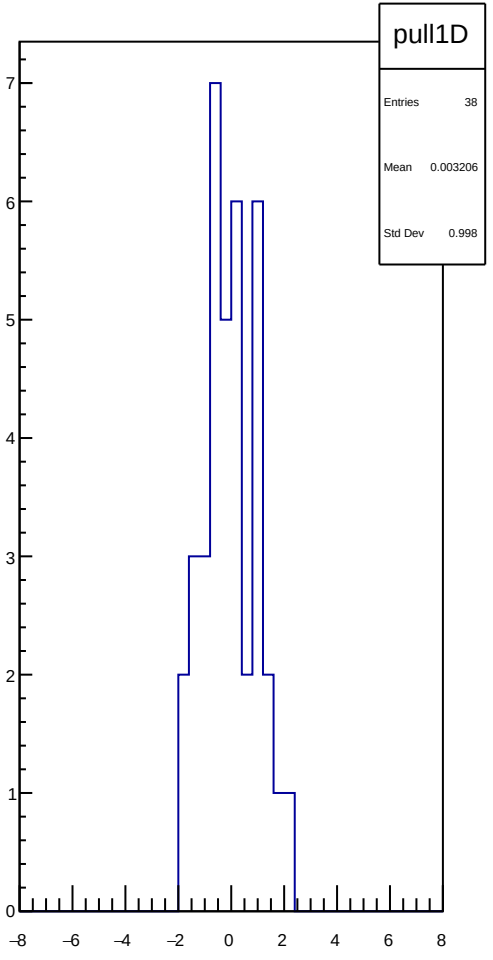

asym_at2_dd_rms vs run
χ² / ndf 7095 / 37
p0 3350 ± 3.844
4600
4400
4200
4000
3800
3600
3400
3200
3000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

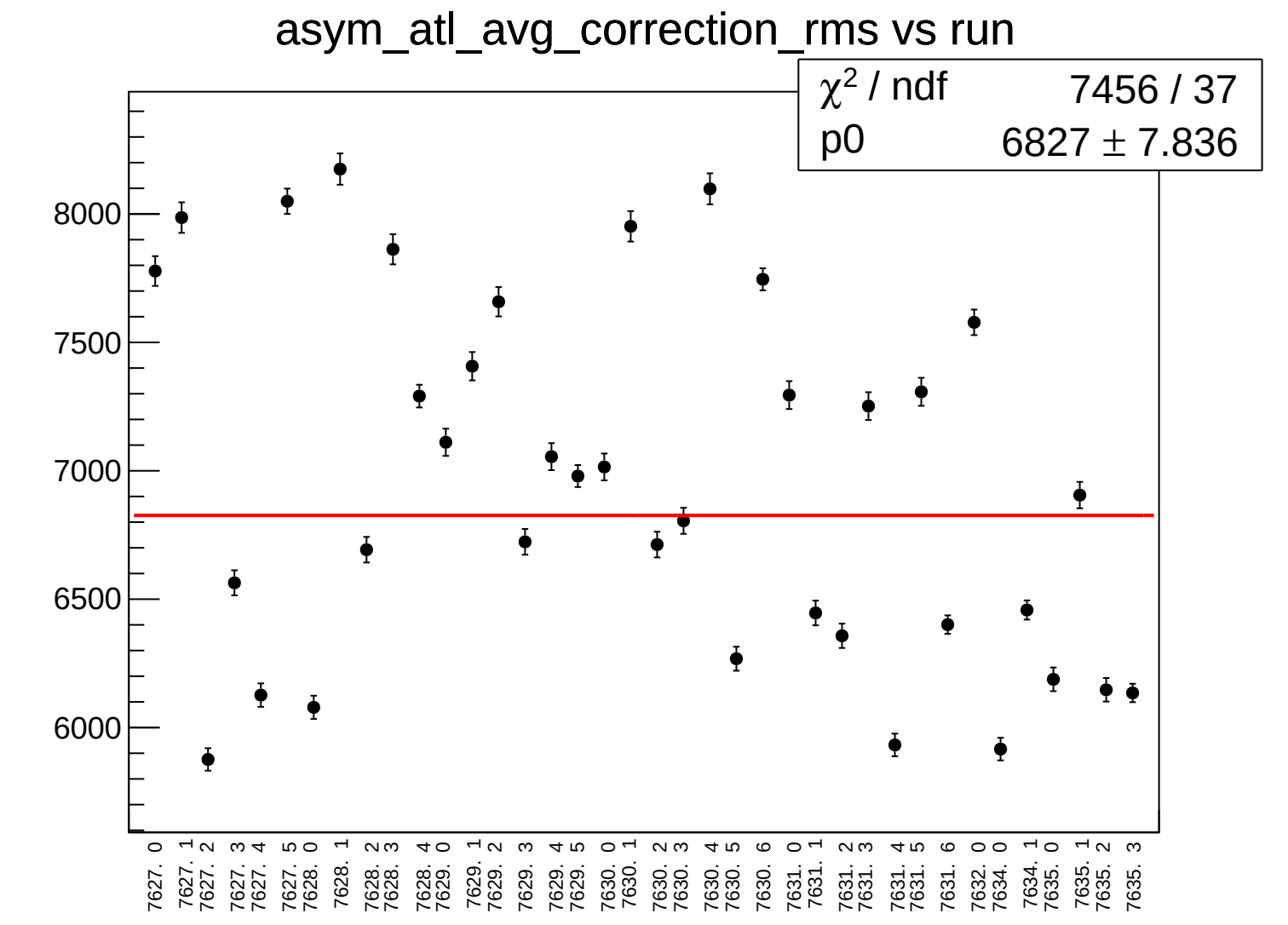

dit_asym_atl_avg_mean vs run
χ² / ndf 42.09 / 37
p0 −312.8 ± 2958
60000
40000
20000
0
−20000
−40000
−60000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 188.6
Std Dev 172.7
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

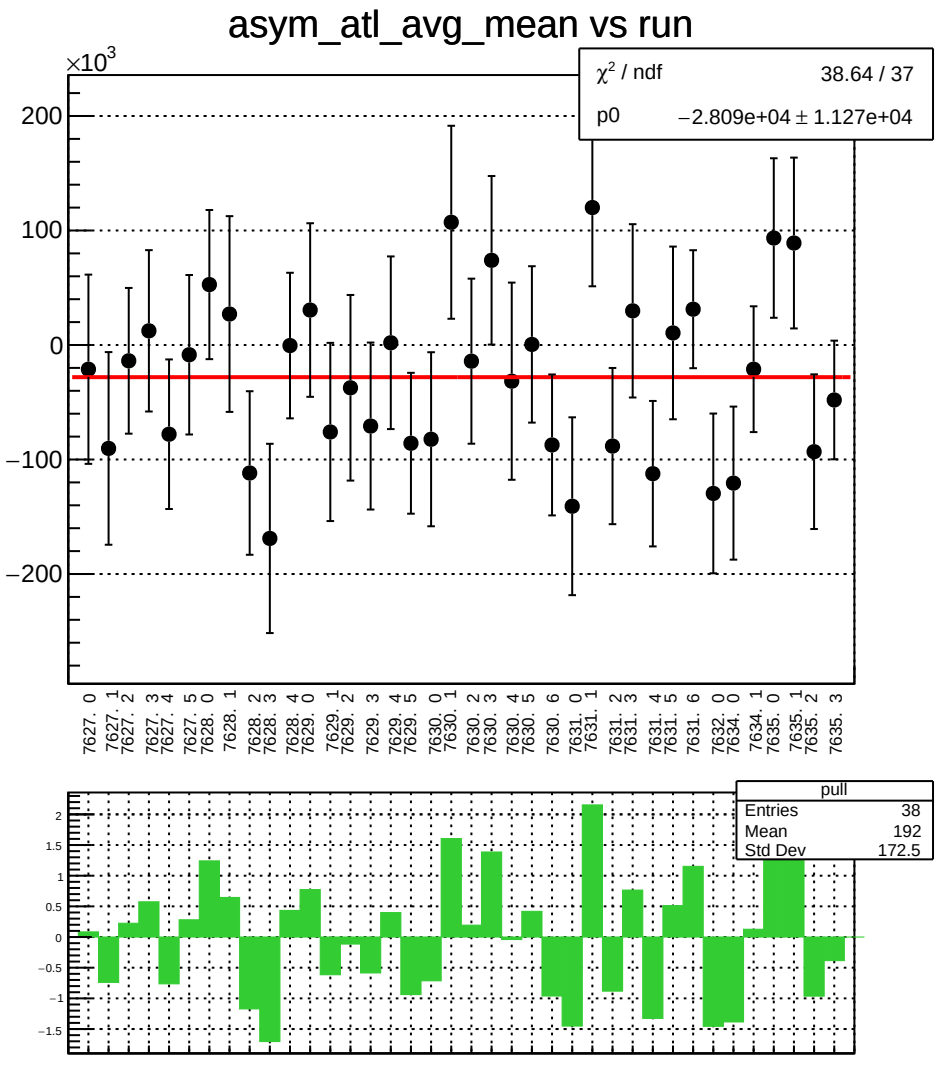

pull1D
Entries 38
Mean 0.007847
Std Dev 1.052
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

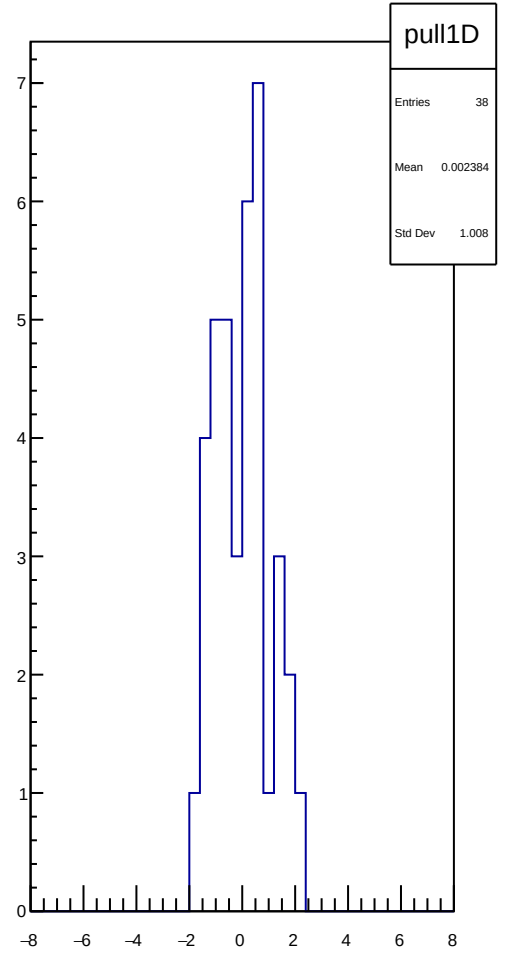

dit_asym_atl_avg_rms vs run
χ² / ndf 101.6 / 37
p0 1831 ± 2.092
1900
1880
1860
1840
1820
1800
1780
1760
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

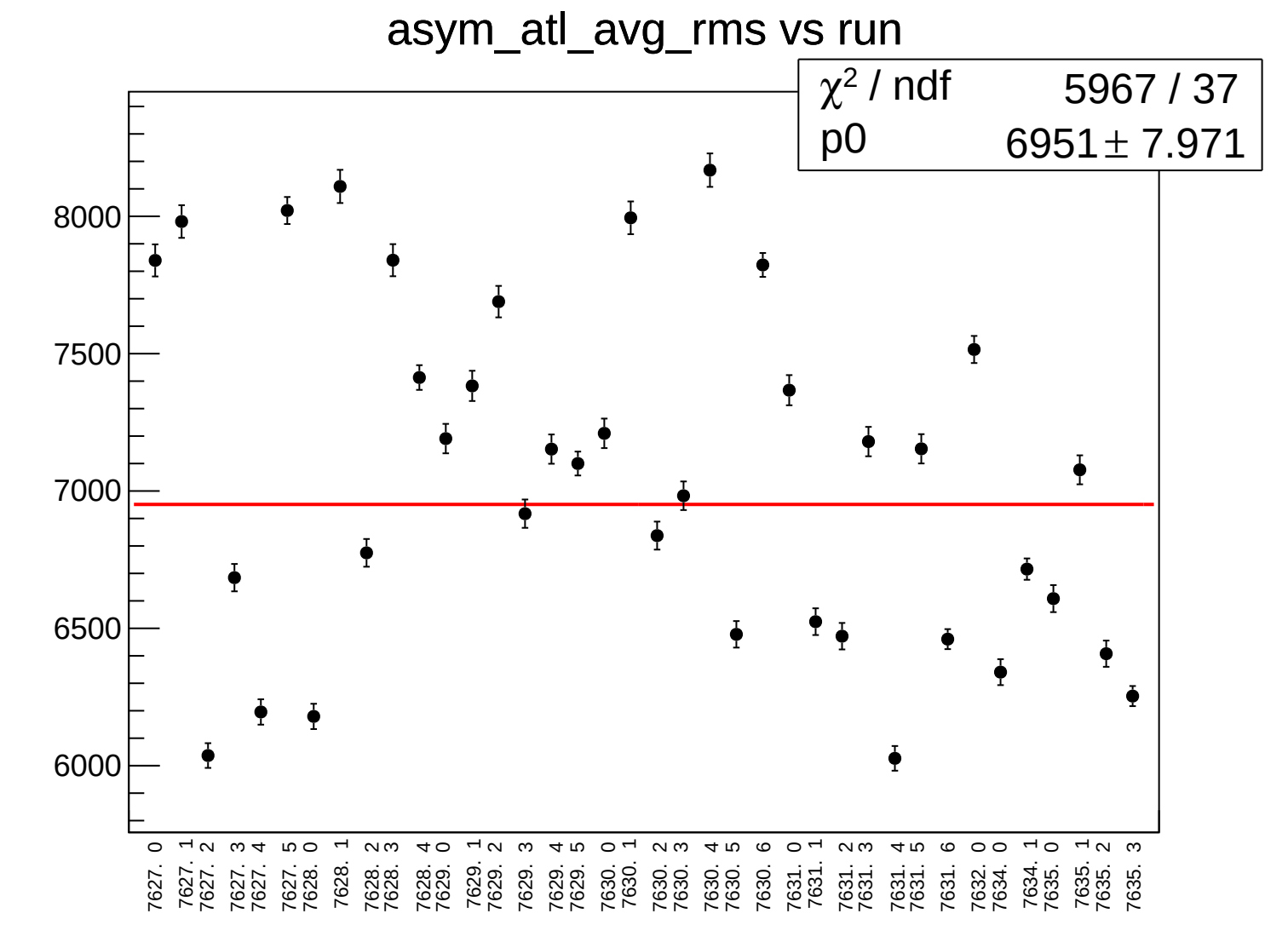

asym_atl_avg_correction_mean vs run
×10^3
χ² / ndf 37.85 / 37
p0 2.719e+04 ± 1.108e+04
300
200
100
0
−100
−200
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 6.596
Std Dev 27.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

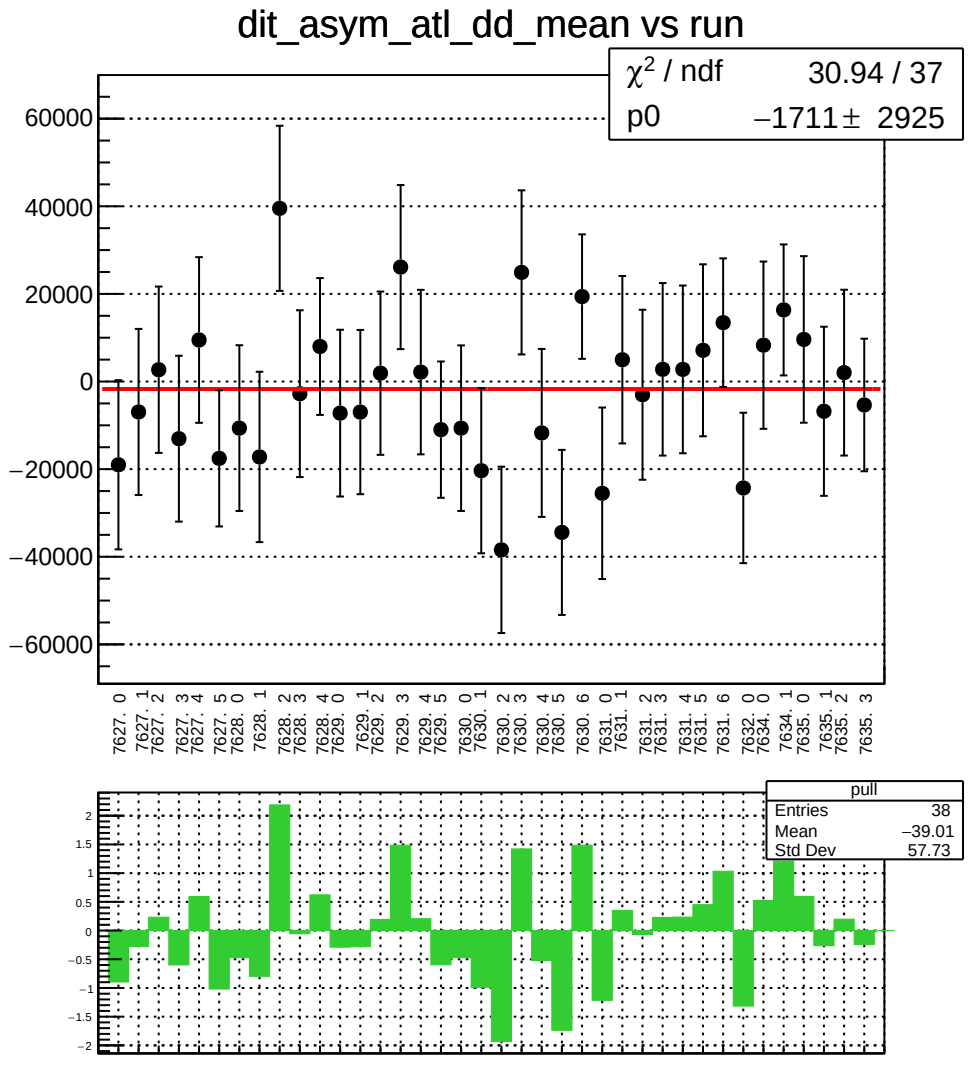

pull1D
Entries 38
Mean 0.003206
Std Dev 0.998
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

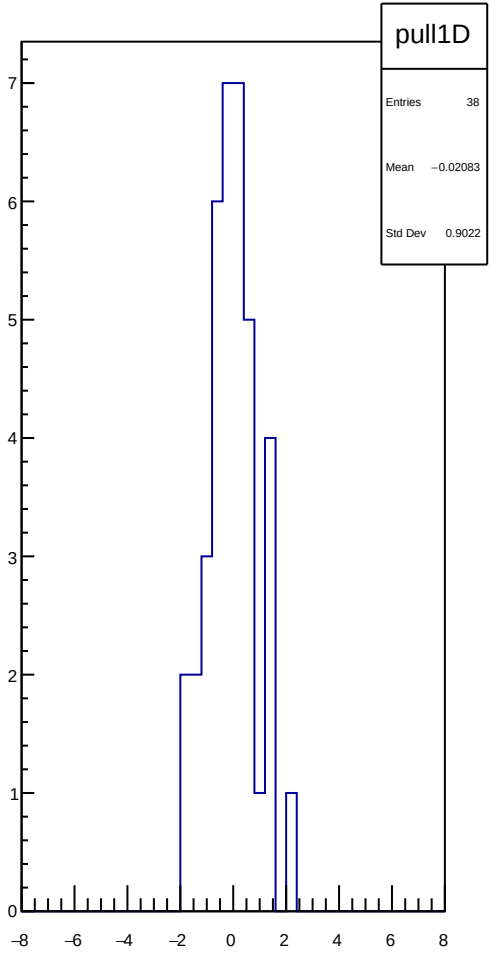

asym_atl_avg_correction_rms vs run
χ² / ndf 7456 / 37
p0 6827 ± 7.836
8000
7500
7000
6500
6000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

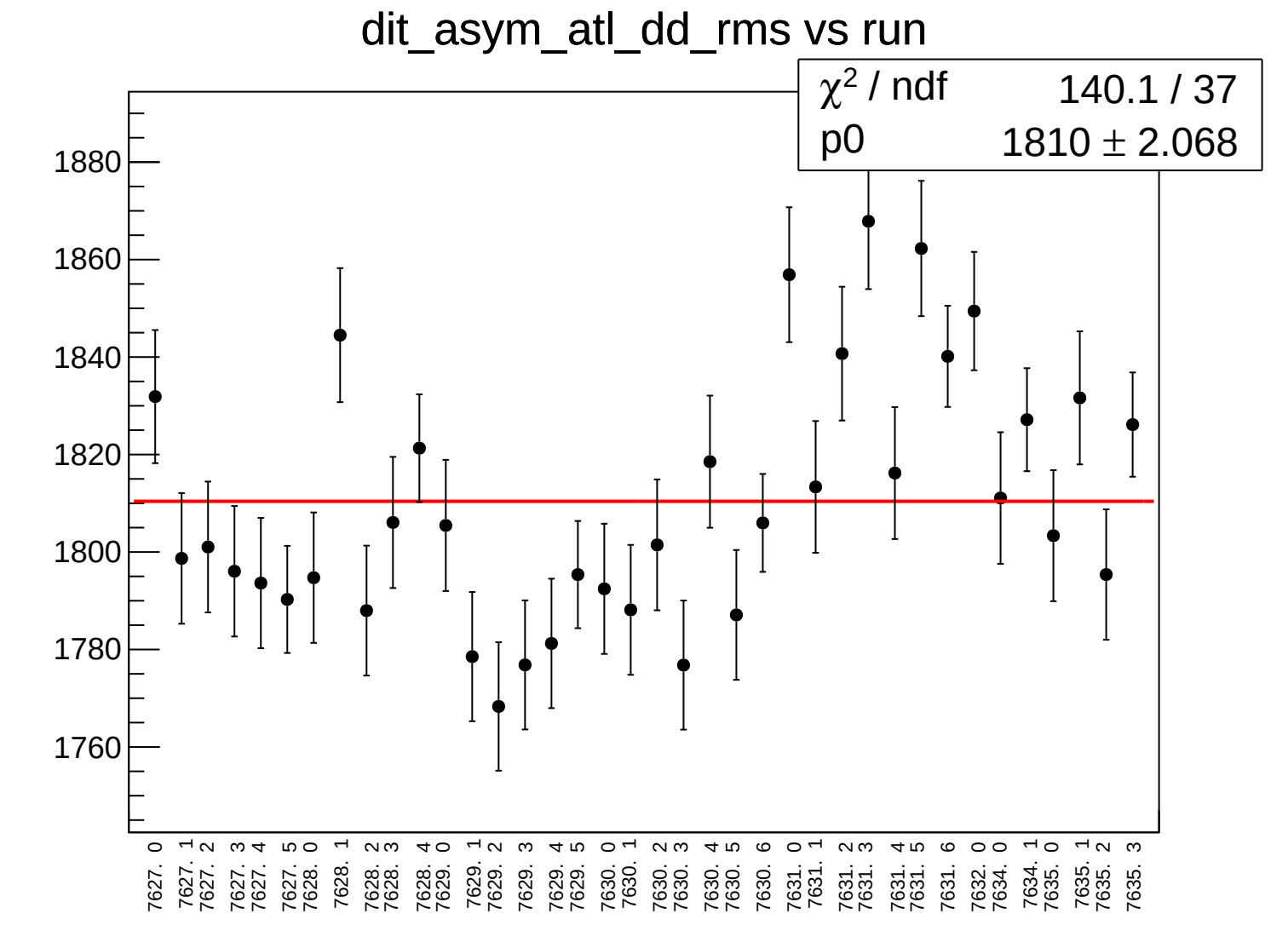

asym_atl_avg_mean vs run
×10^3
χ² / ndf 38.64 / 37
p0 −2.809e+04 ± 1.127e+04
200
100
0
−100
−200
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 192
Std Dev 172.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

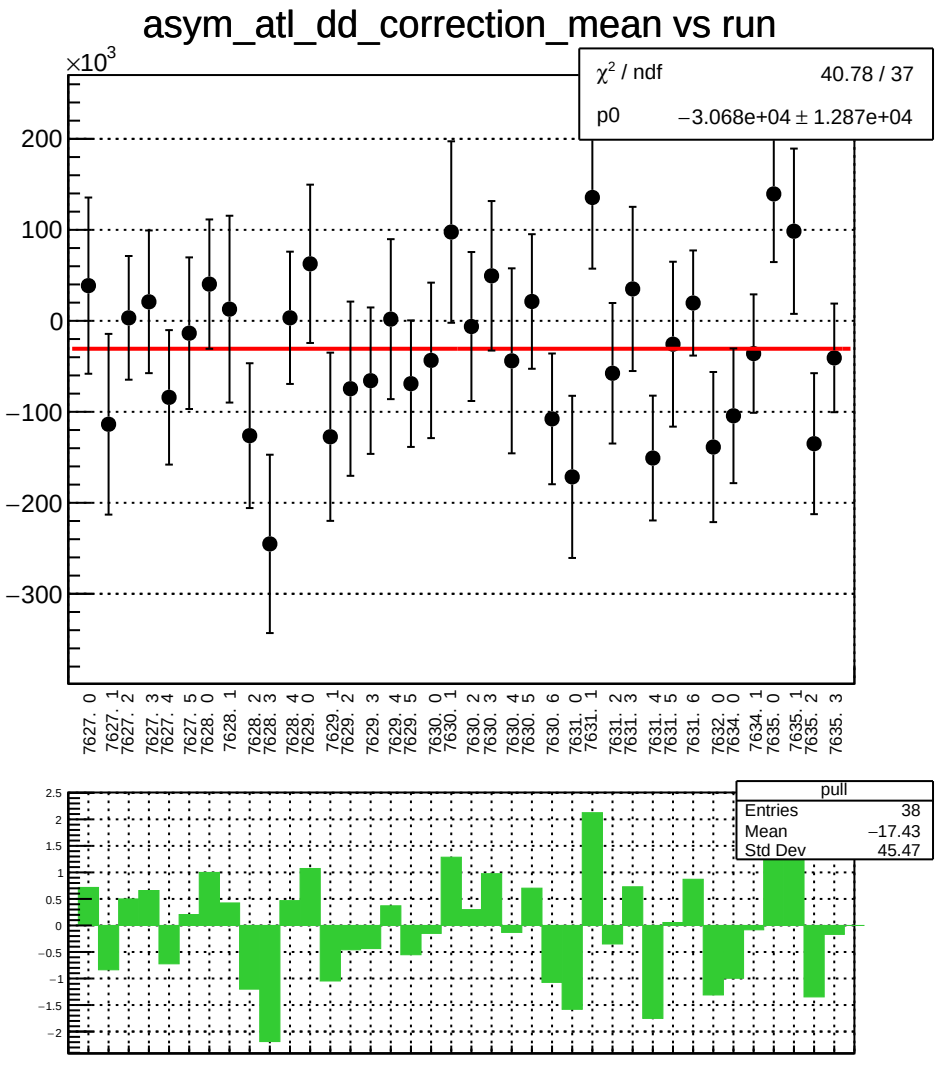

pull1D
Entries 38
Mean 0.002384
Std Dev 1.008
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

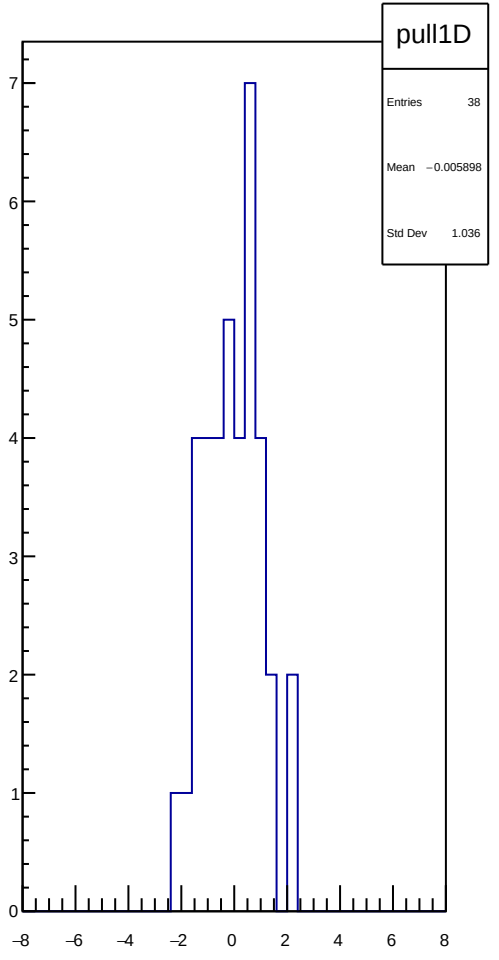

asym_atl_avg_rms vs run
χ² / ndf 5967 / 37
p0 6951 ± 7.971
8000
7500
7000
6500
6000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

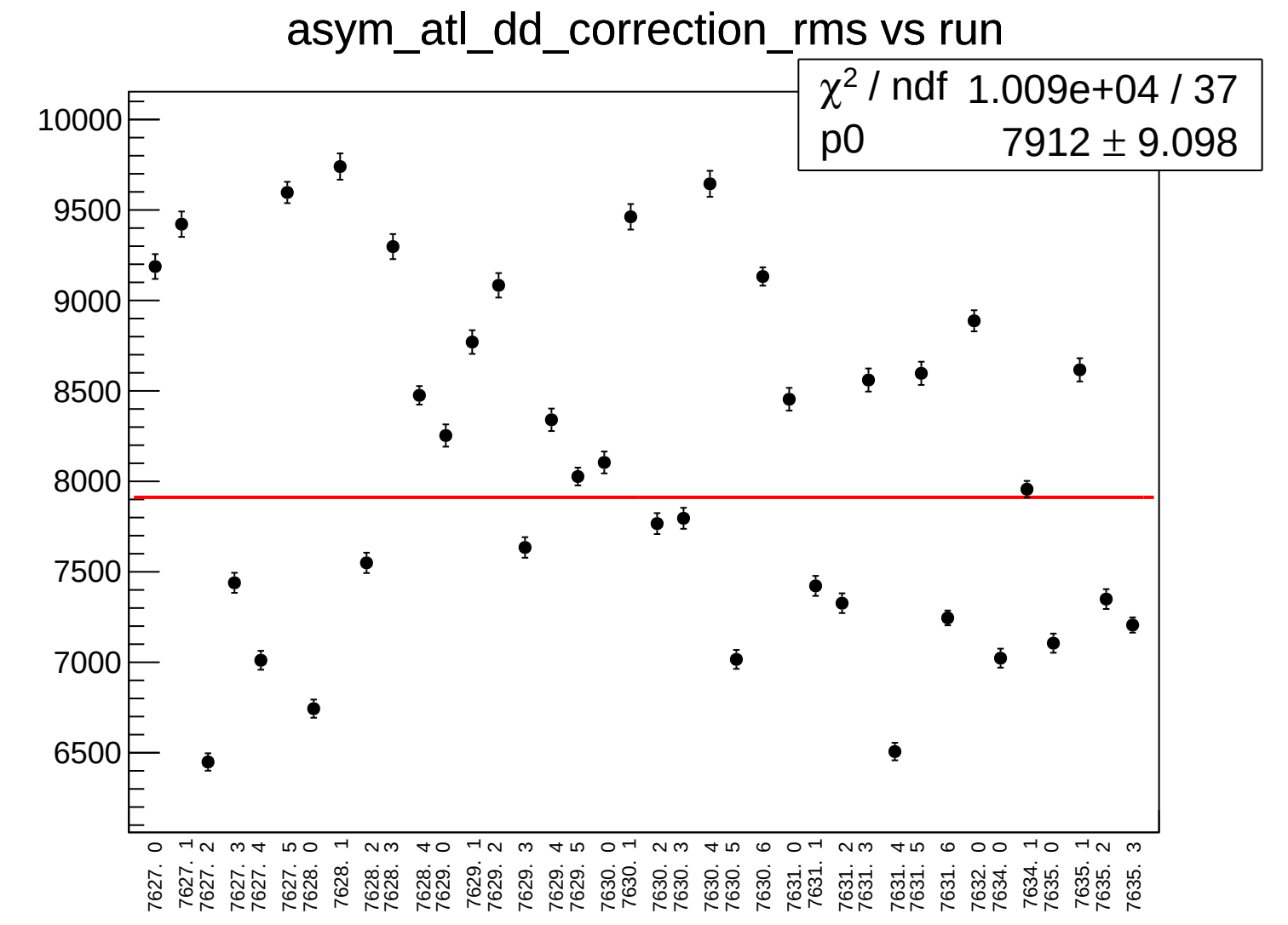

dit_asym_atl_dd_mean vs run
χ² / ndf 30.94 / 37
p0 −1711 ± 2925
60000
40000
20000
0
−20000
−40000
−60000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −39.01
Std Dev 57.73
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

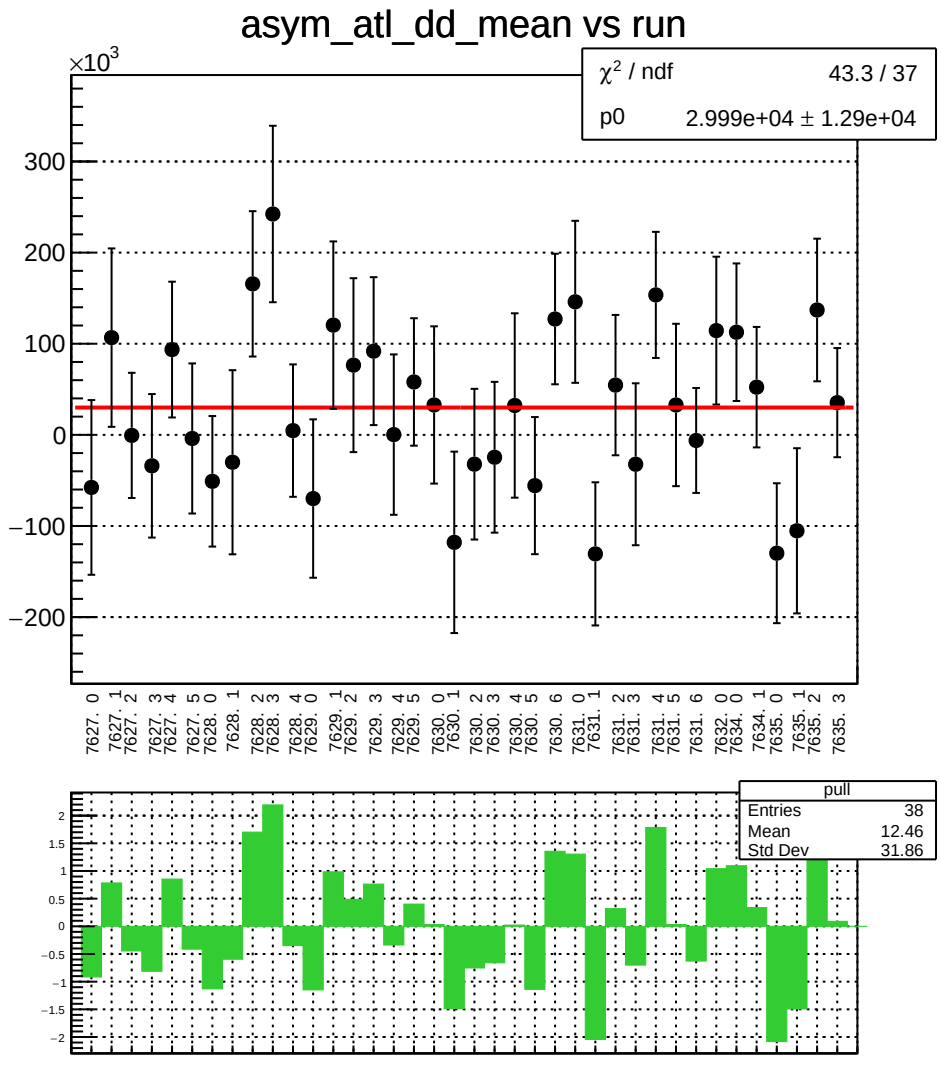

pull1D
Entries 38
Mean −0.02083
Std Dev 0.9022
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

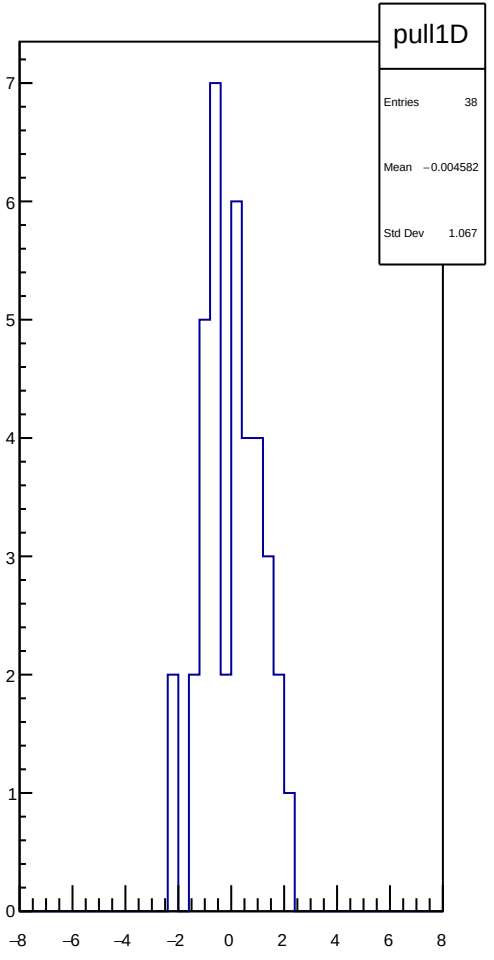

dit_asym_atl_dd_rms vs run
χ² / ndf 140.1 / 37
p0 1810 ± 2.068
1880
1860
1840
1820
1800
1780
1760
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

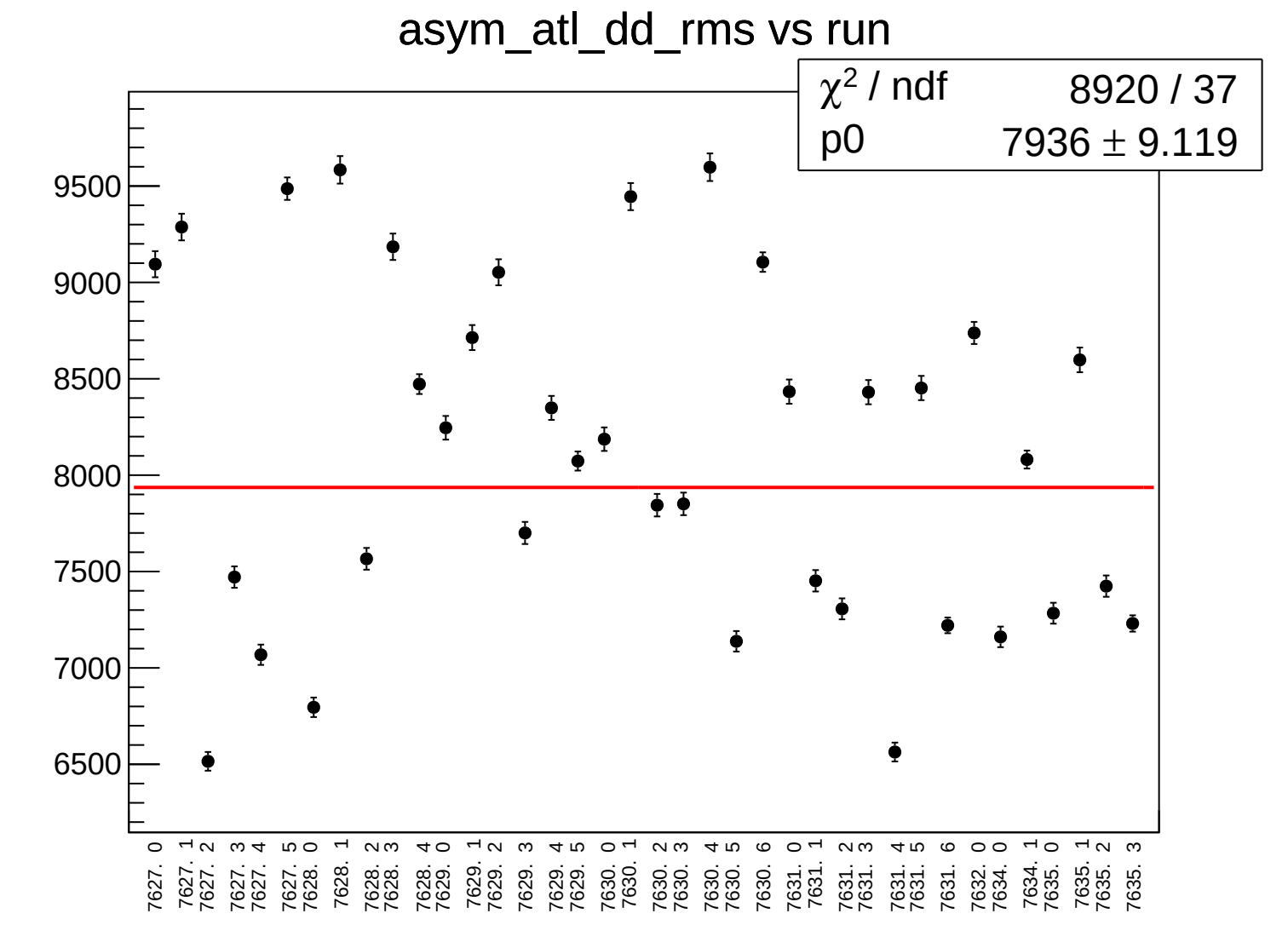

asym_atl_dd_correction_mean vs run
×10^3
χ² / ndf 40.78 / 37
p0 −3.068e+04 ± 1.287e+04
200
100
0
−100
−200
−300
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −17.43
Std Dev 45.47
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

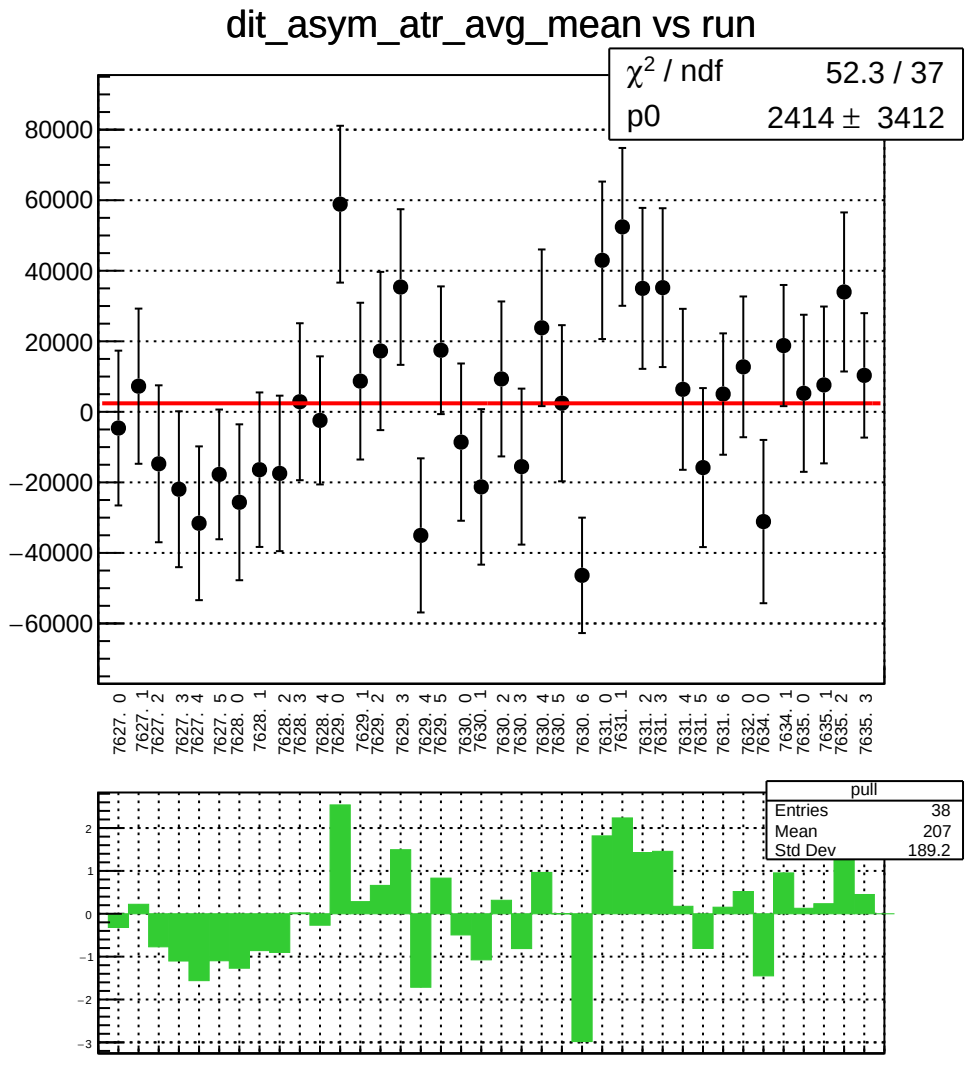

pull1D
Entries 38
Mean −0.005898
Std Dev 1.036
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

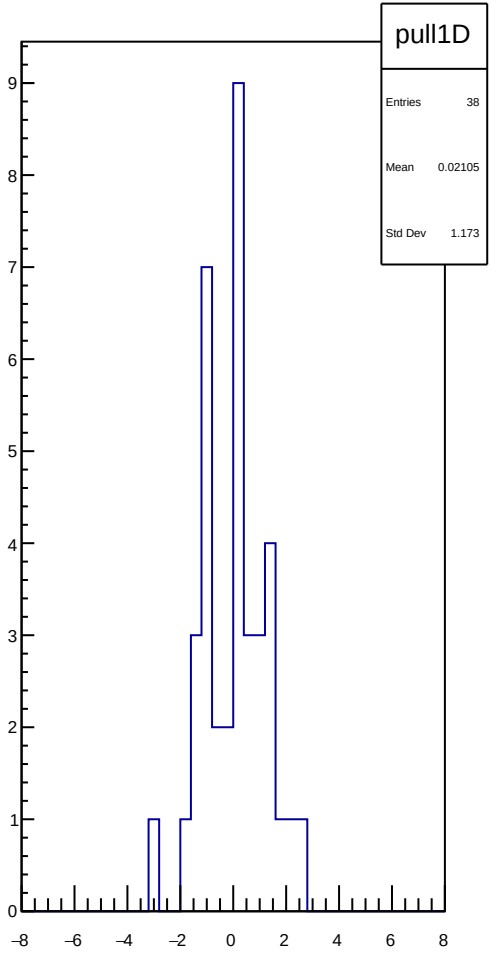

asym_atl_dd_correction_rms vs run
χ² / ndf 1.009e+04 / 37
p0 7912 ± 9.098
10000
9500
9000
8500
8000
7500
7000
6500
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

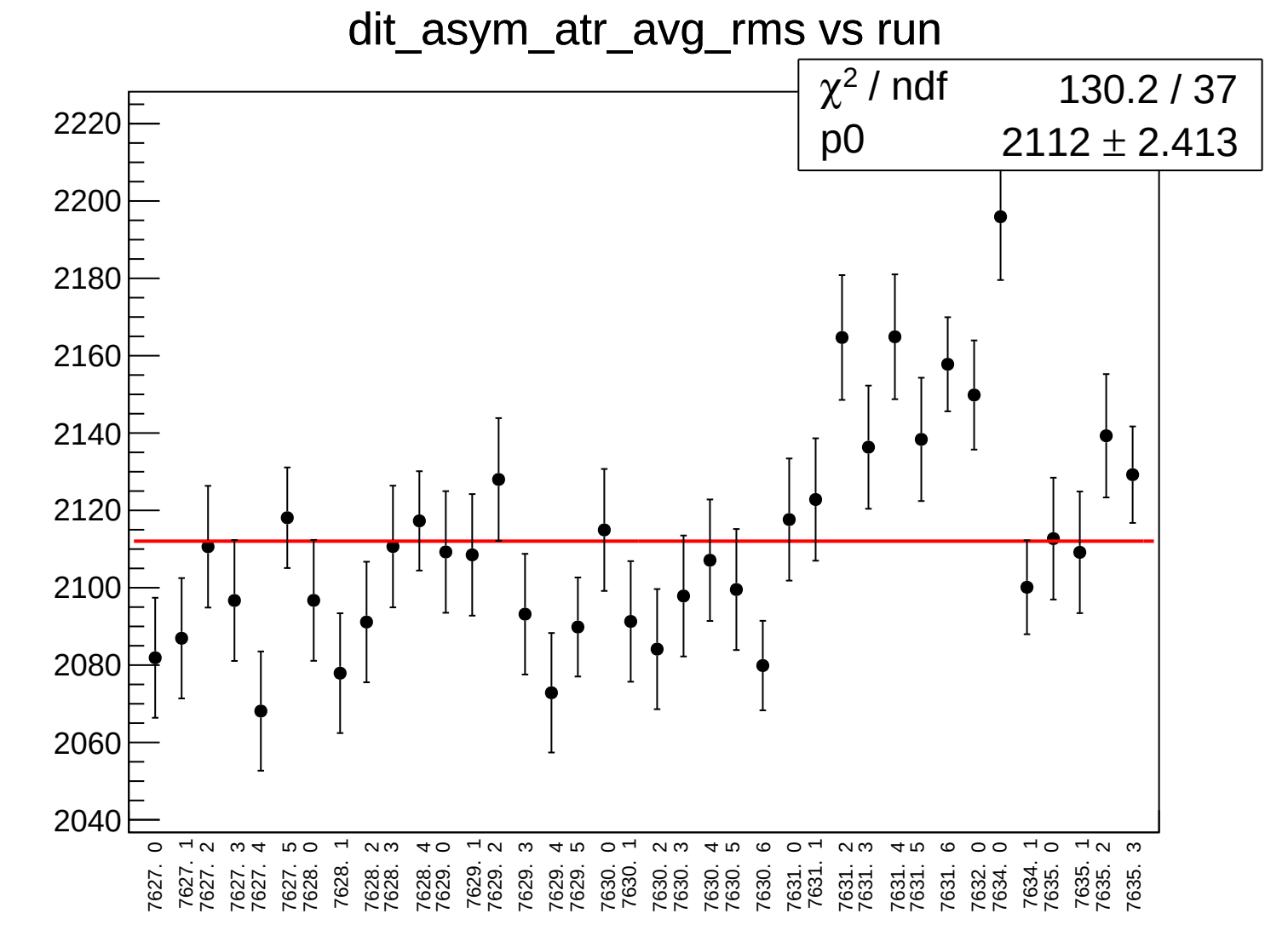

asym_atl_dd_mean vs run
×10^3
χ² / ndf 43.3 / 37
p0 2.999e+04 ± 1.29e+04
300
200
100
0
−100
−200
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 12.46
Std Dev 31.86
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

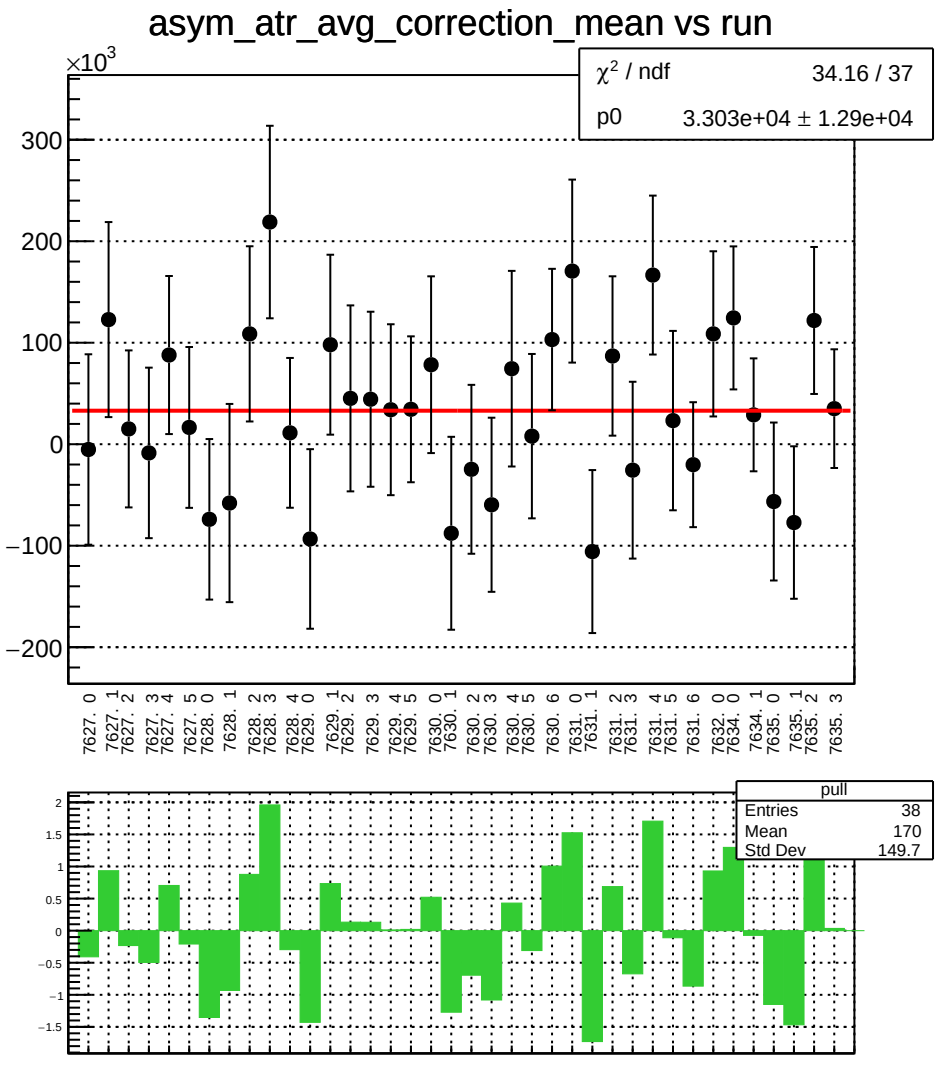

pull1D
Entries 38
Mean −0.004582
Std Dev 1.067
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

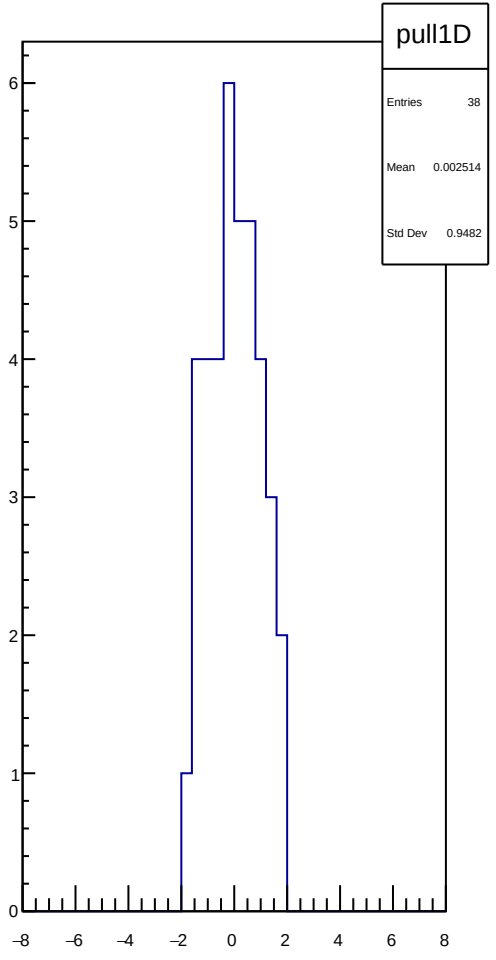

asym_atl_dd_rms vs run
χ^2 / ndf 8920 / 37
p0 7936 ± 9.119
9500
9000
8500
8000
7500
7000
6500
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

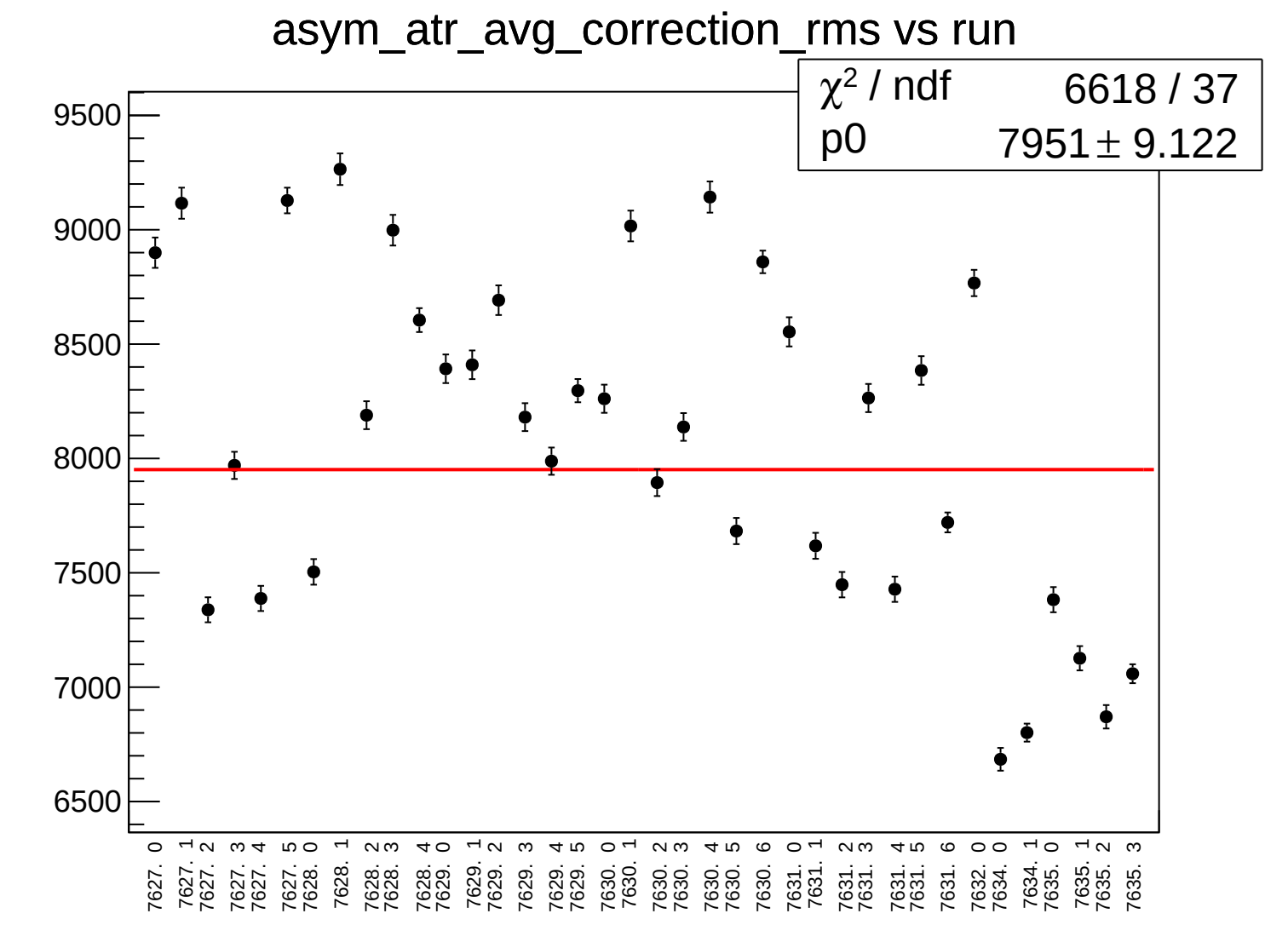

dit_asym_atr_avg_mean vs run
χ² / ndf 52.3 / 37
p0 2414 ± 3412
80000
60000
40000
20000
0
−20000
−40000
−60000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 207
Std Dev 189.2
2
1
0
−1
−2
−3

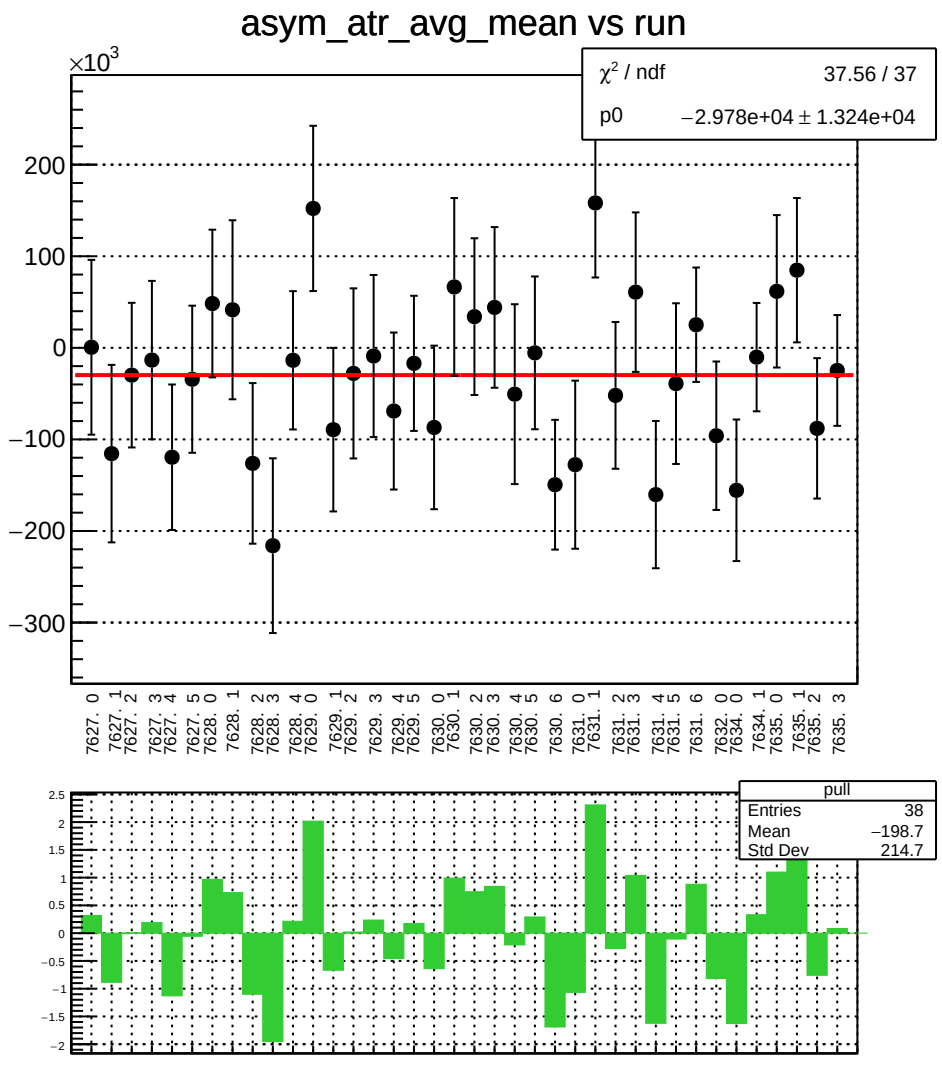

pull1D
Entries 38
Mean 0.02105
Std Dev 1.173
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

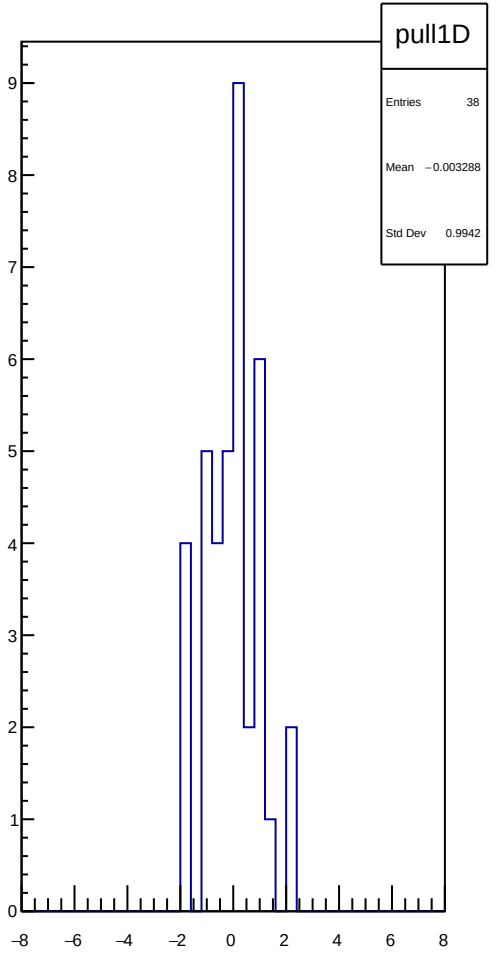

dit_asym_atr_avg_rms vs run
χ^2 / ndf 130.2 / 37
p0 2112 ± 2.413
2220
2200
2180
2160
2140
2120
2100
2080
2060
2040
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

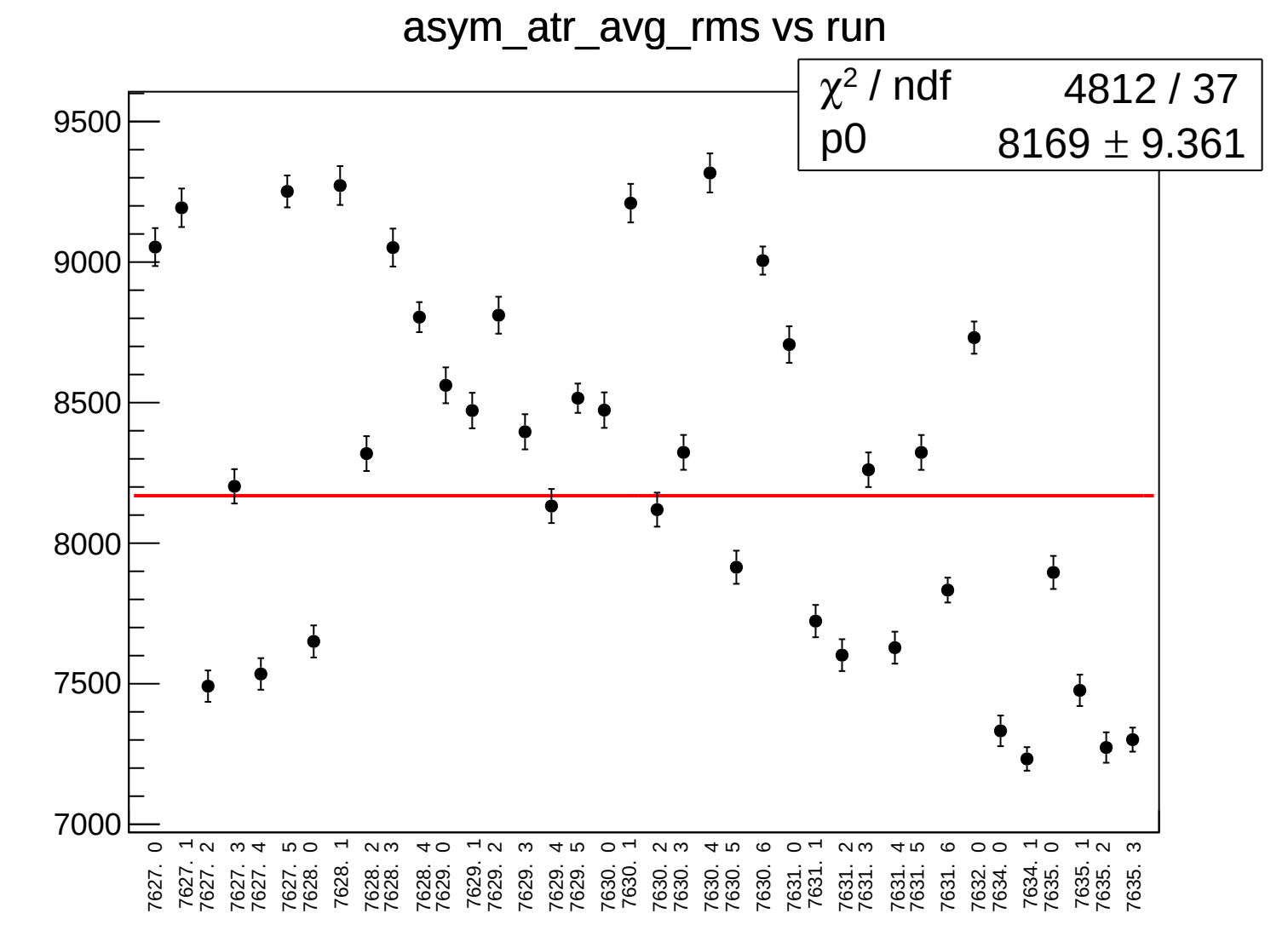

asym_atr_avg_correction_mean vs run
χ² / ndf 34.16 / 37
p0 3.303e+04 ± 1.29e+04
pull
Entries 38
Mean 170
Std Dev 149.7

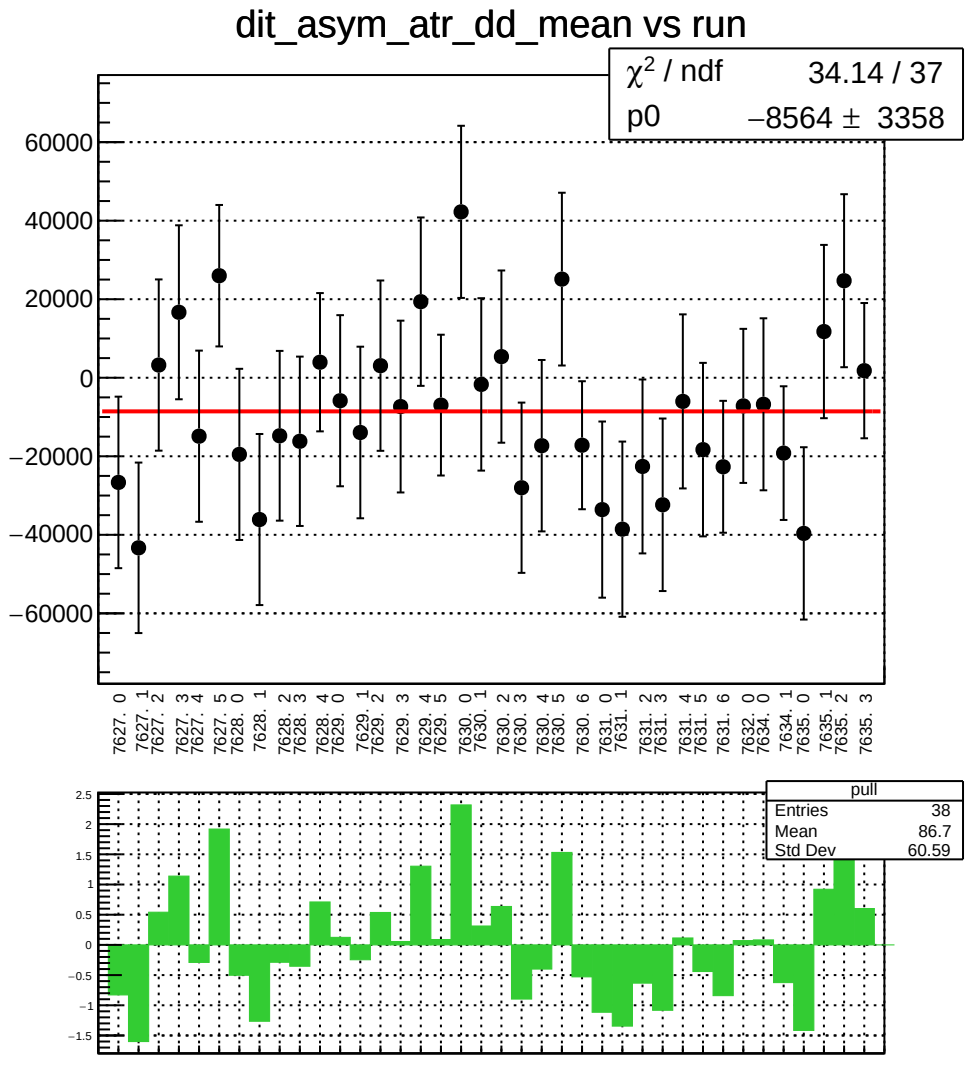

pull1D
Entries 38
Mean 0.002514
Std Dev 0.9482

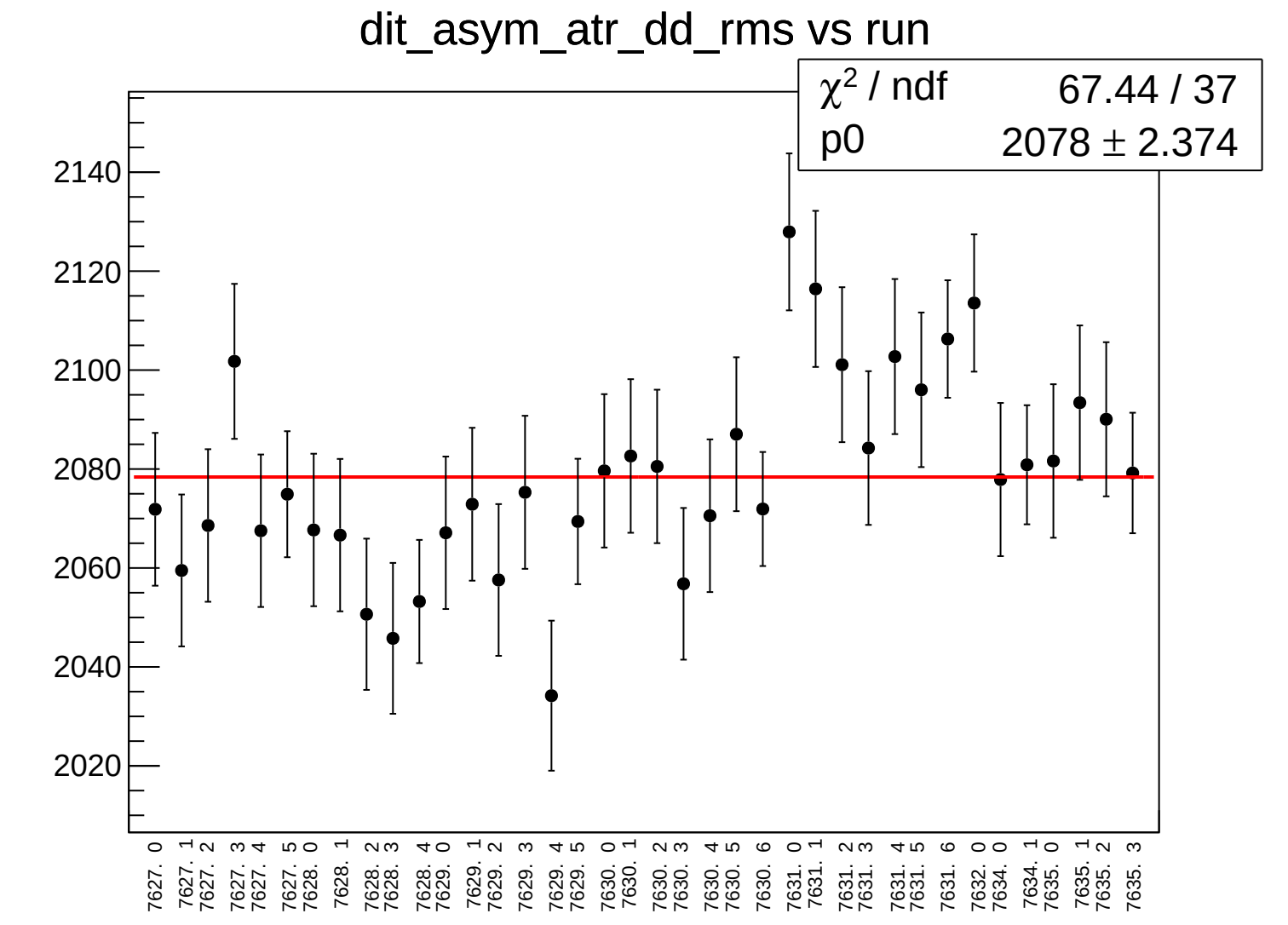

asym_atr_avg_correction_rms vs run
χ² / ndf 6618 / 37
p0 7951 ± 9.122
9500
9000
8500
8000
7500
7000
6500
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

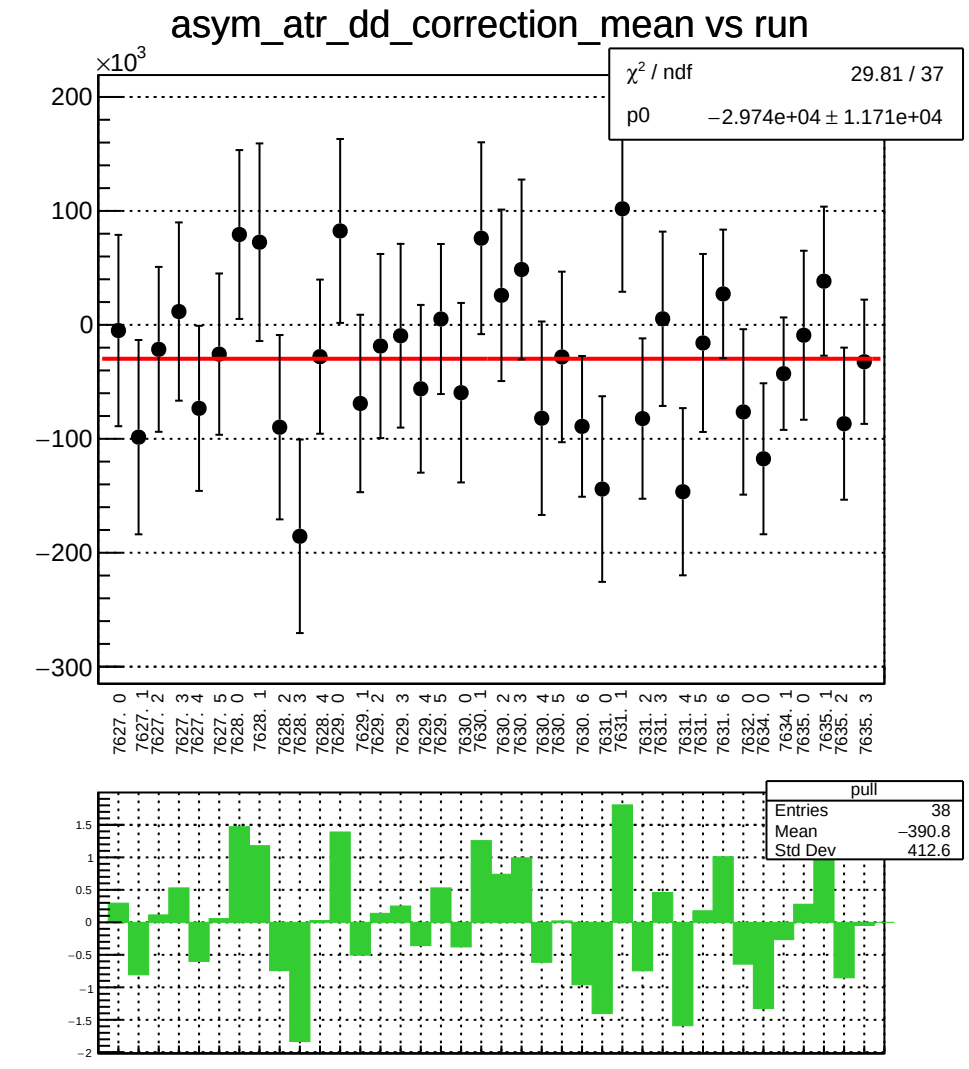

asym_atr_avg_mean vs run
×10^3
χ² / ndf 37.56 / 37
p0 −2.978e+04 ± 1.324e+04
200
100
0
−100
−200
−300
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −198.7
Std Dev 214.7
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

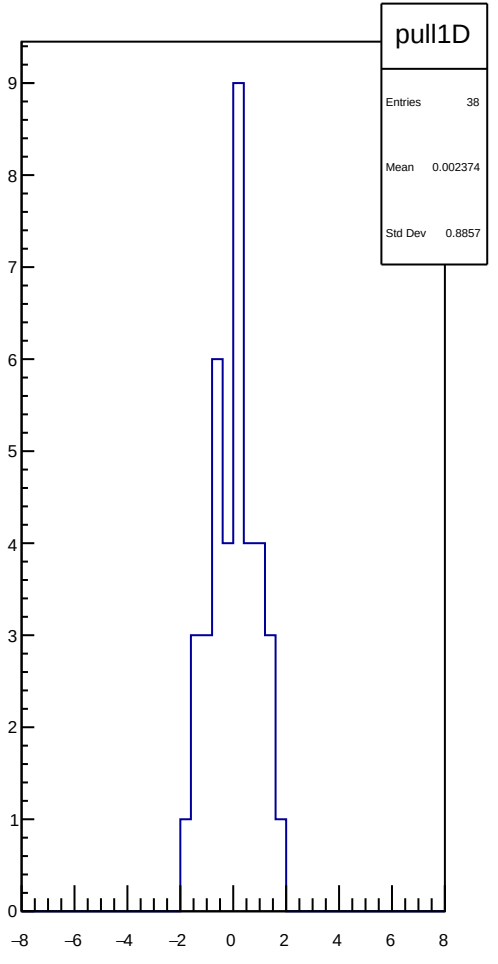

pull1D
Entries 38
Mean −0.003288
Std Dev 0.9942
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

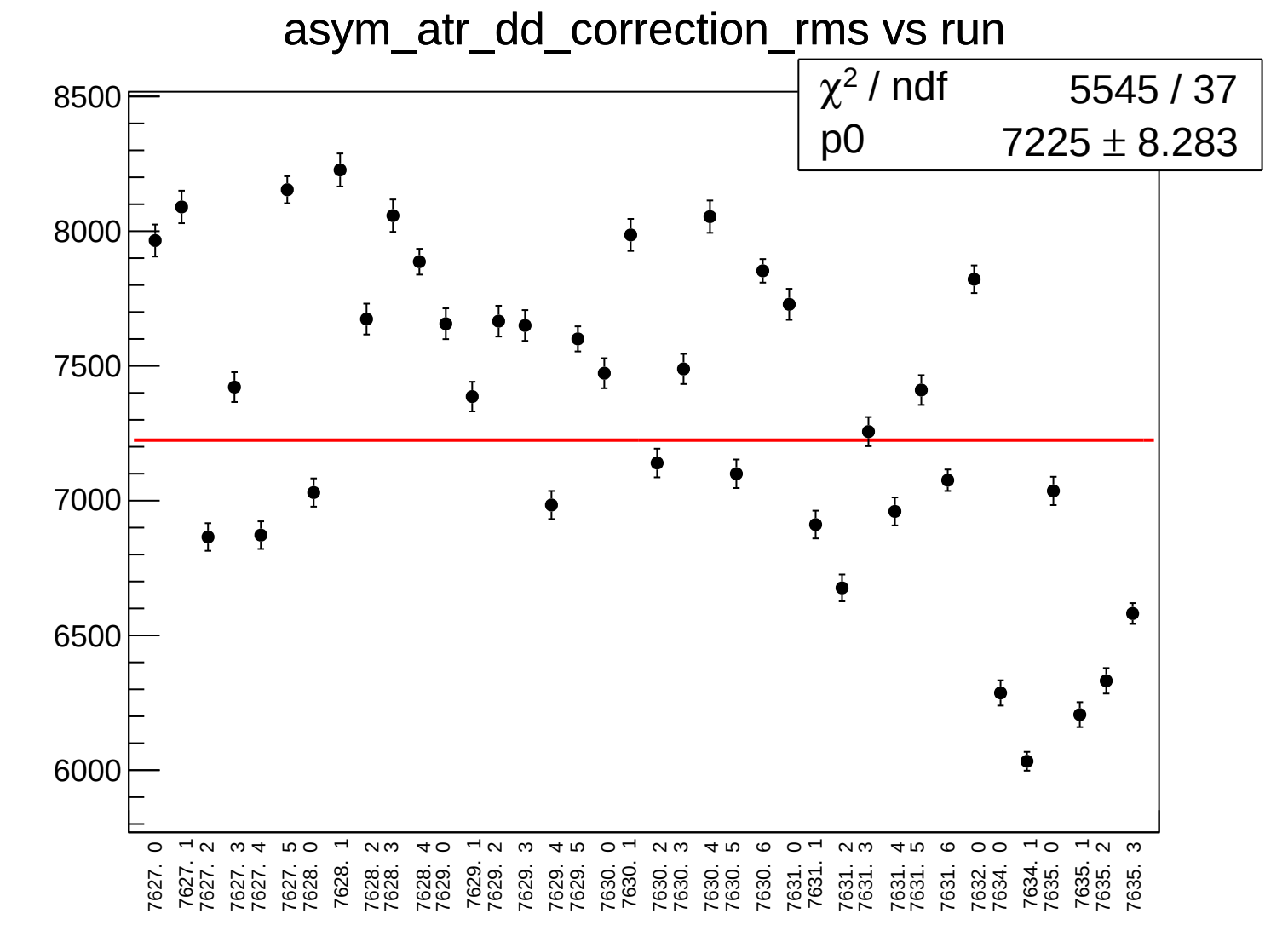

asym_atr_avg_rms vs run
χ² / ndf 4812 / 37
p0 8169 ± 9.361
9500
9000
8500
8000
7500
7000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

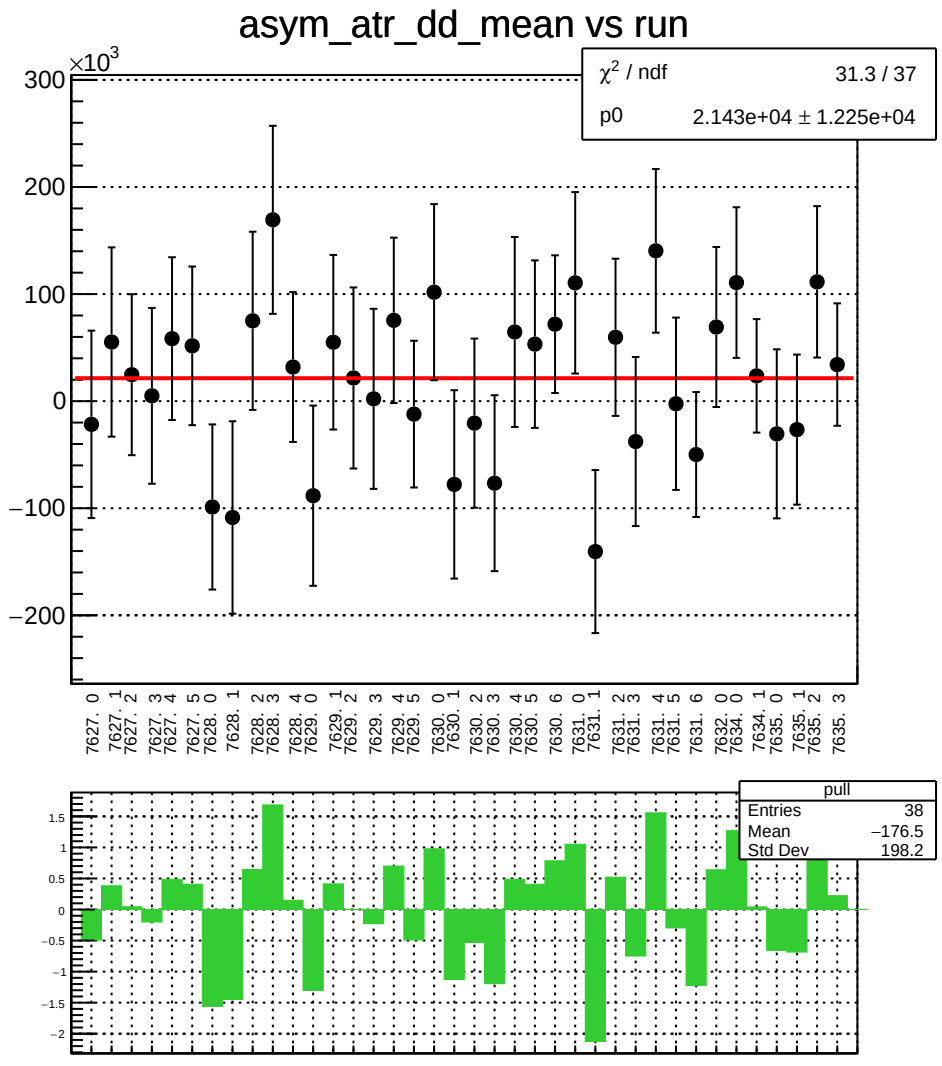

dit_asym_atr_dd_mean vs run
χ² / ndf 34.14 / 37
p0 −8564 ± 3358
60000
40000
20000
0
−20000
−40000
−60000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 86.7
Std Dev 60.59
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 38
Mean −0.004686
Std Dev 0.9479
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

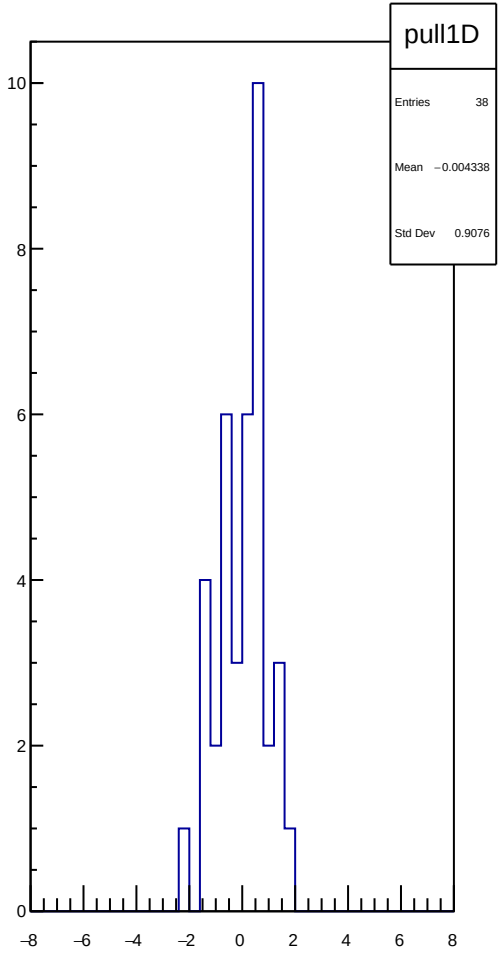

dit_asym_atr_dd_rms vs run
χ² / ndf 67.44 / 37
p0 2078 ± 2.374
2140
2120
2100
2080
2060
2040
2020
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

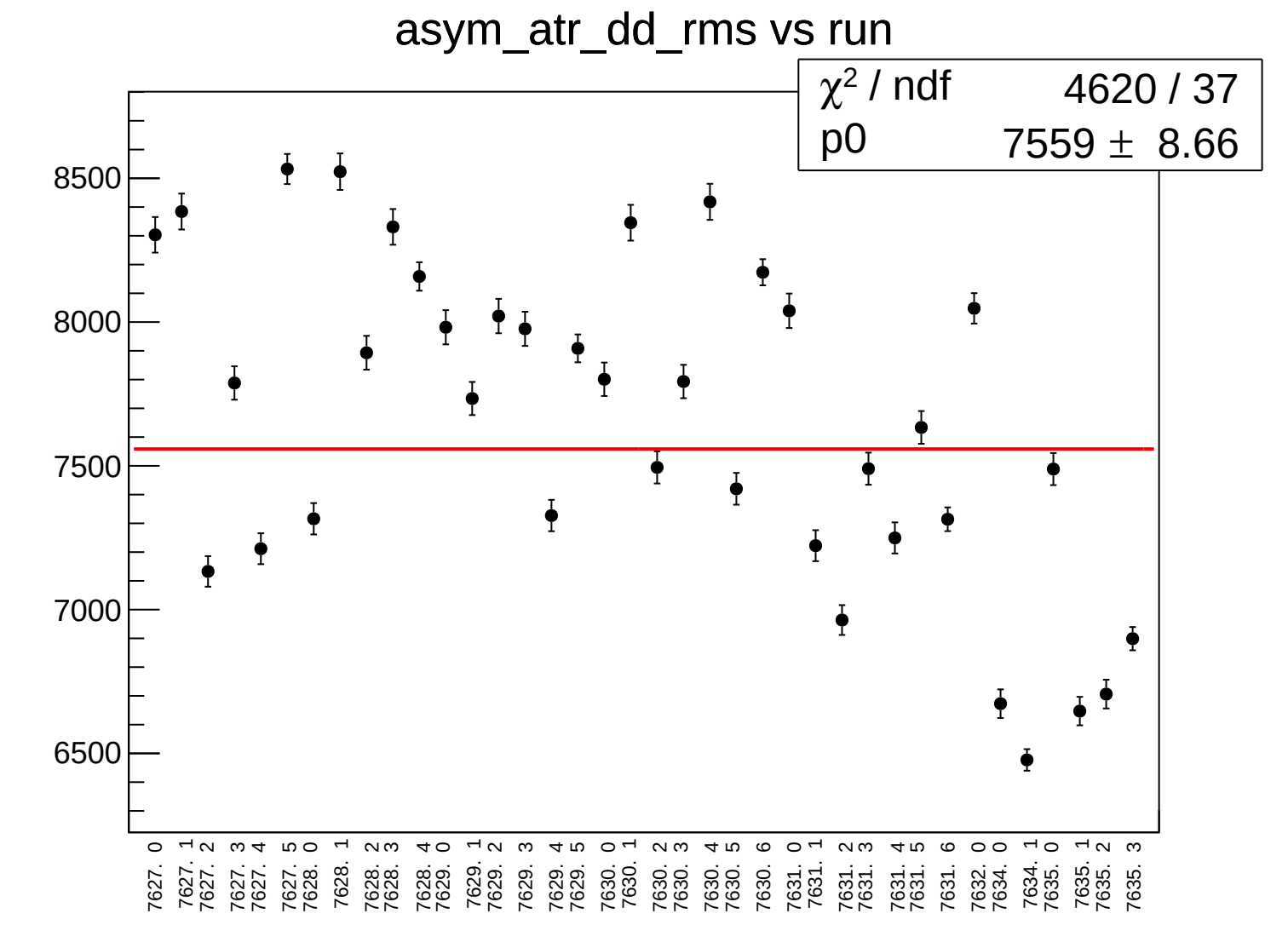

asym_atr_dd_correction_mean vs run
×10^3
χ² / ndf 29.81 / 37
p0 −2.974e+04 ± 1.171e+04
200
100
0
−100
−200
−300
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −390.8
Std Dev 412.6
1.5
1
0.5
0
−0.5
−1
−1.5
−2

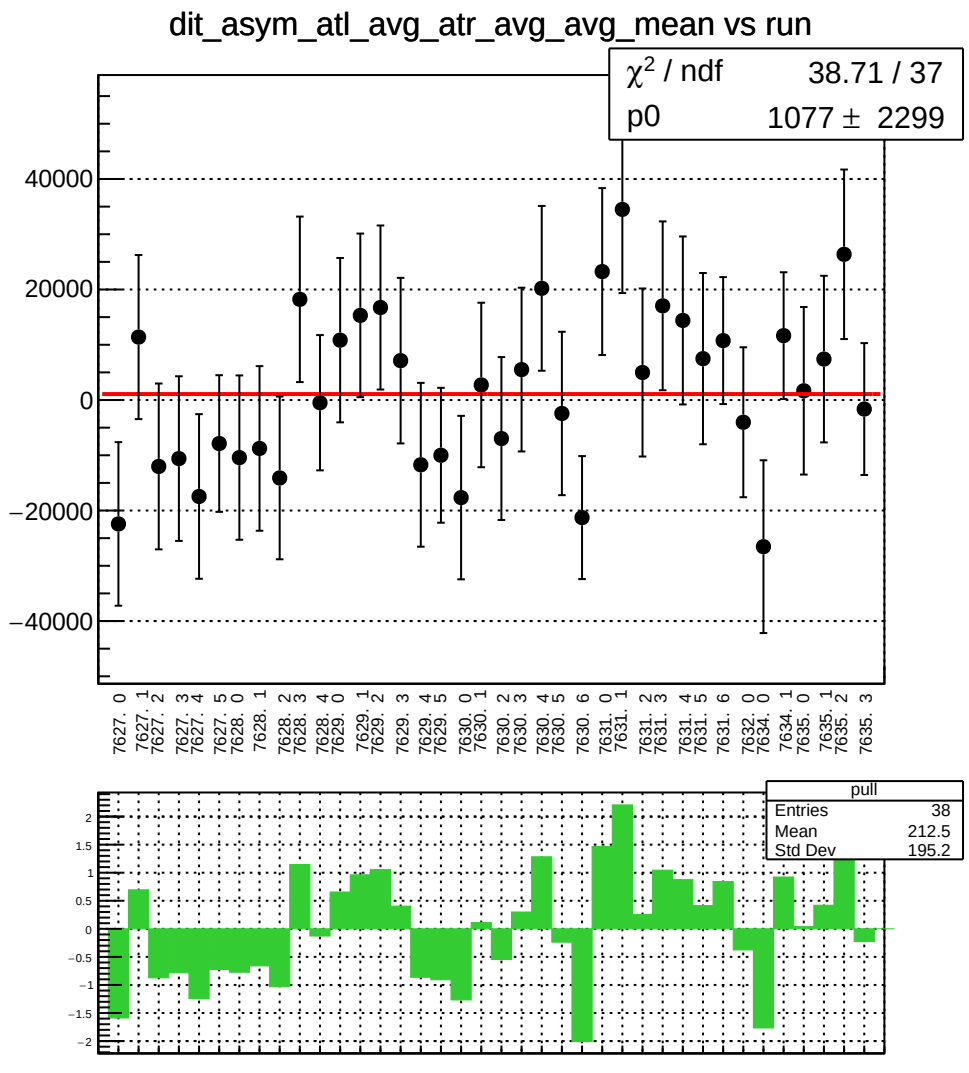

pull1D
Entries 38
Mean 0.002374
Std Dev 0.8857
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

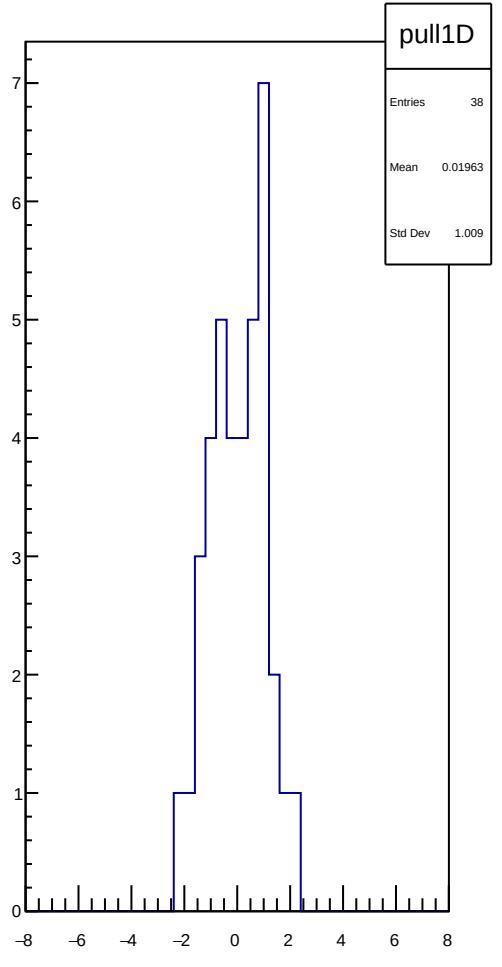

asym_atr_dd_correction_rms vs run
χ² / ndf 5545 / 37
p0 7225 ± 8.283
8500
8000
7500
7000
6500
6000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

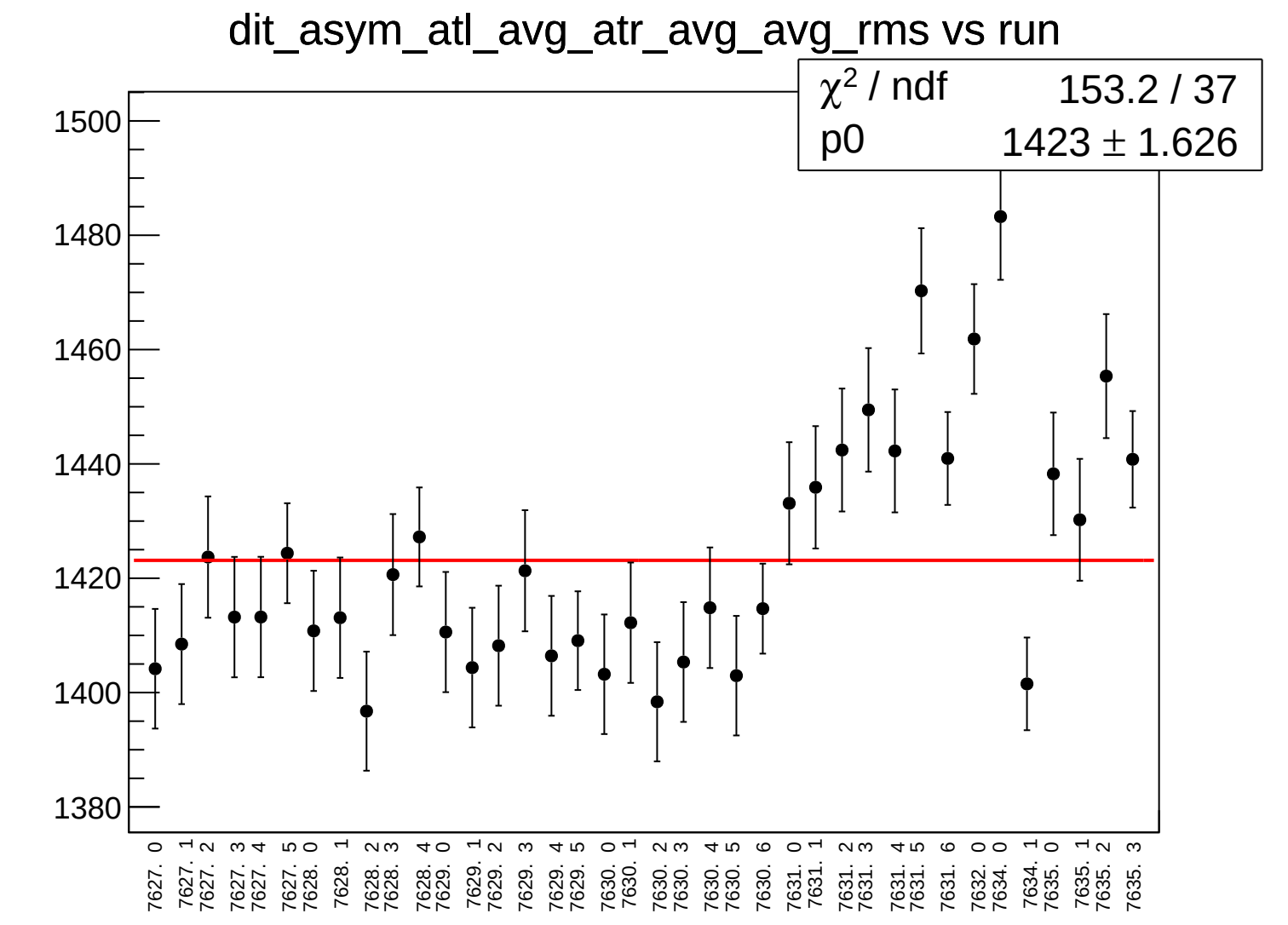

asym_atr_dd_mean vs run
×10^3
χ² / ndf 31.3 / 37
p0 2.143e+04 ± 1.225e+04
300
200
100
0
−100
−200
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −176.5
Std Dev 198.2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

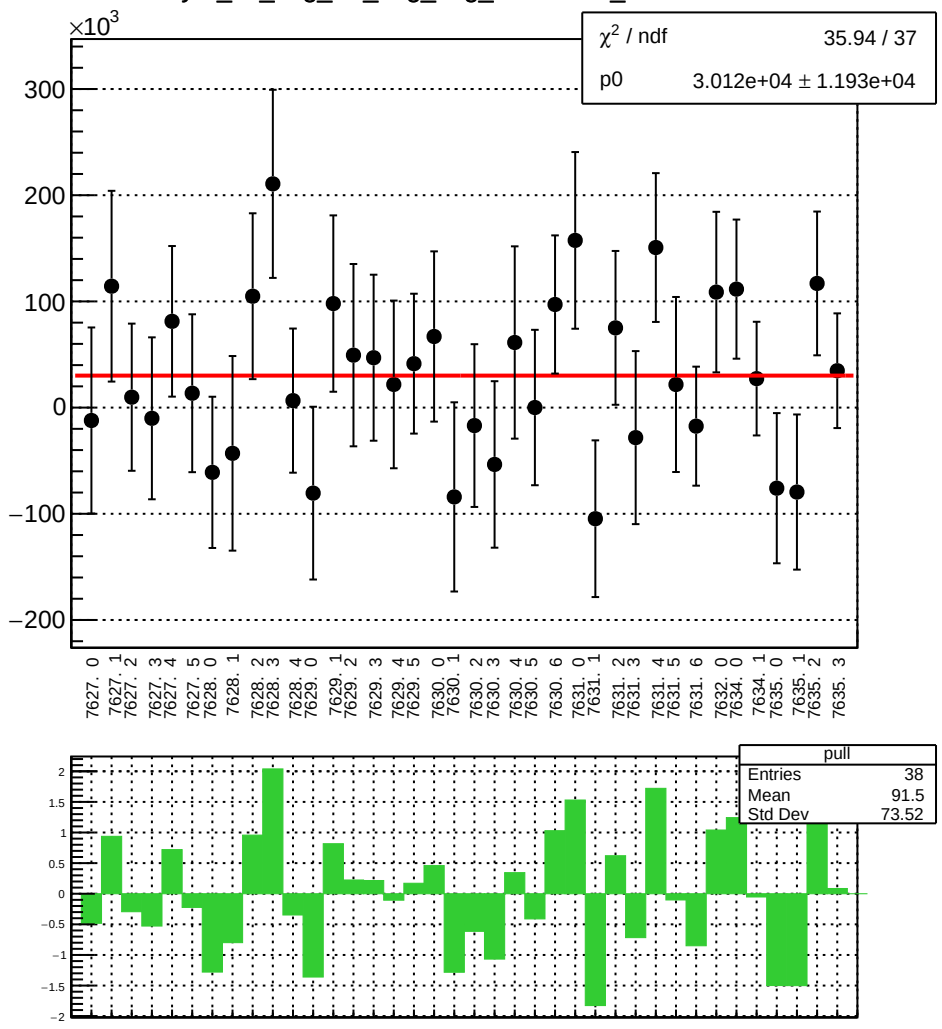

pull1D
Entries 38
Mean −0.004338
Std Dev 0.9076
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

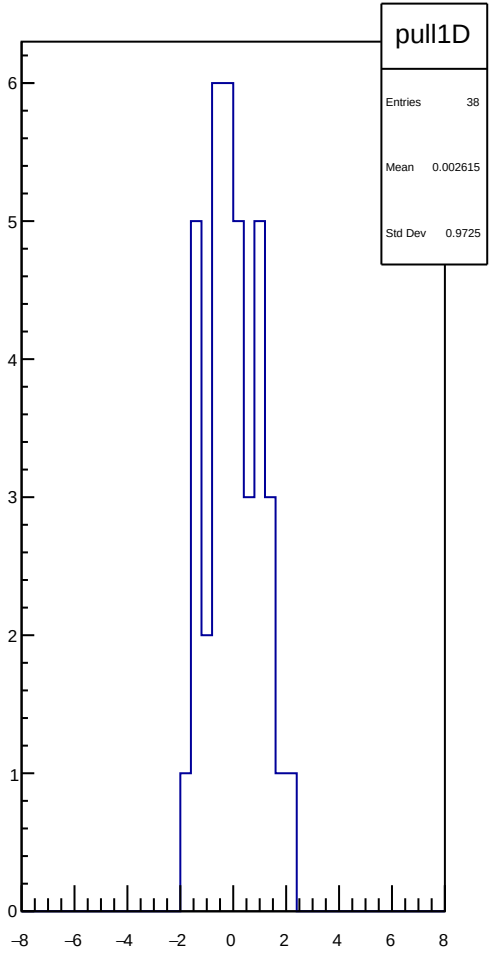

asym_atr_dd_rms vs run
χ² / ndf 4620 / 37
p0 7559 ± 8.66
8500
8000
7500
7000
6500
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

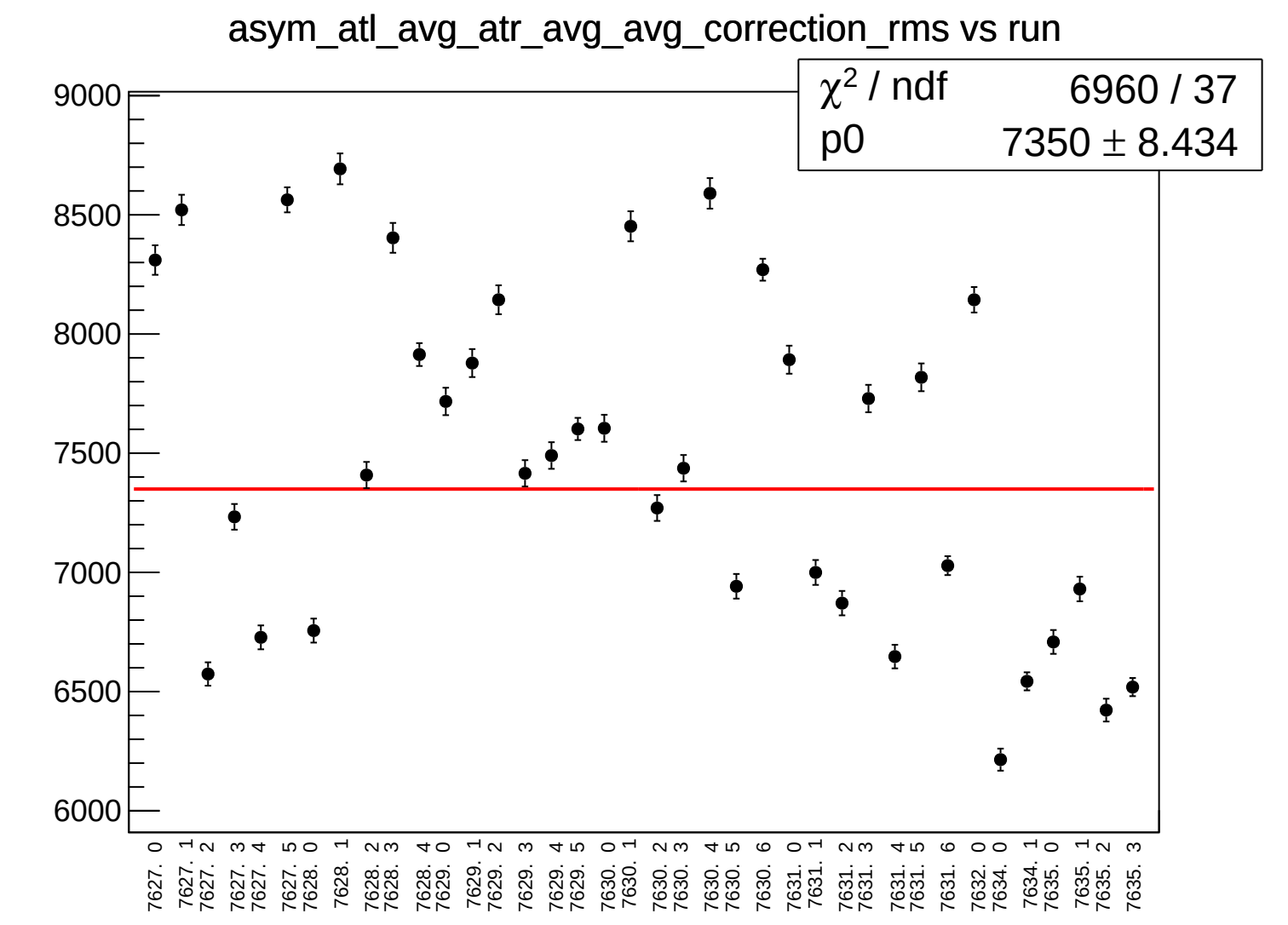

dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 38.71 / 37
p0 1077 ± 2299
40000
20000
0
−20000
−40000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 212.5
Std Dev 195.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

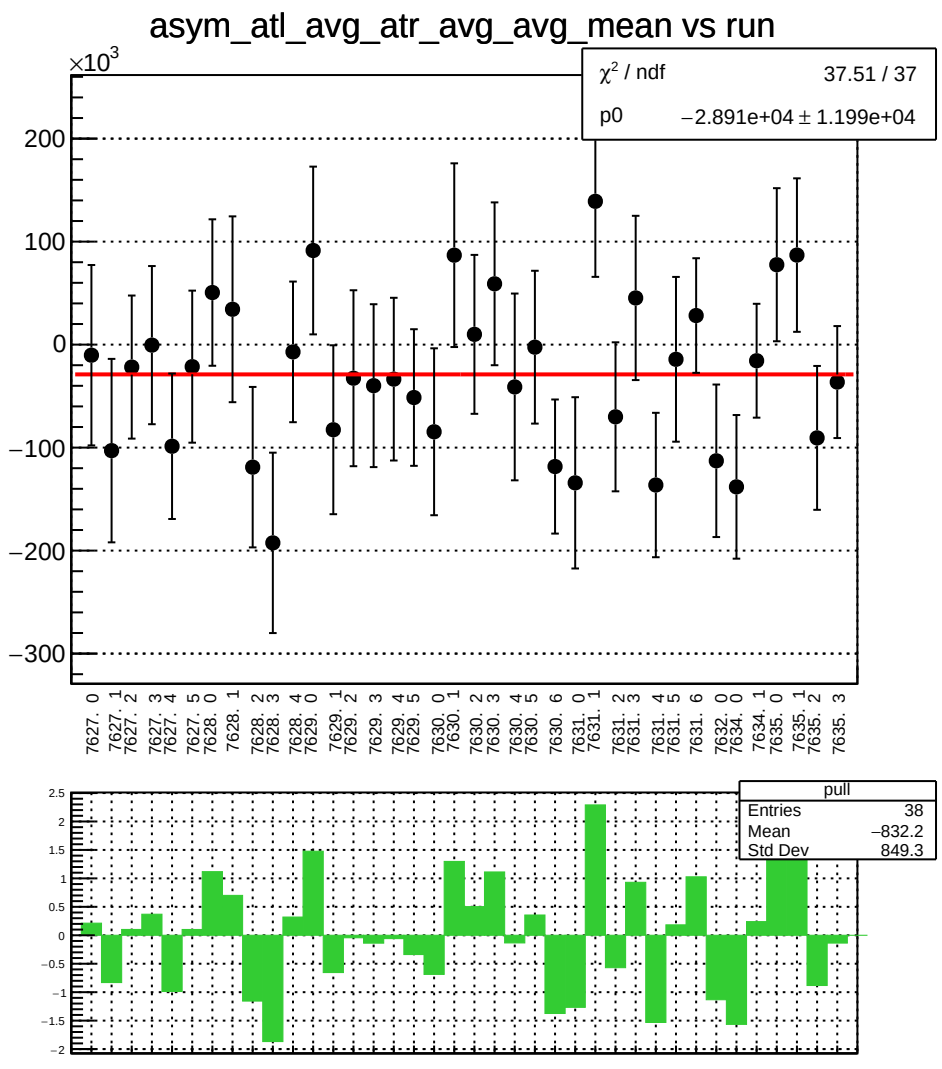

pull1D
Entries 38
Mean 0.01963
Std Dev 1.009
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

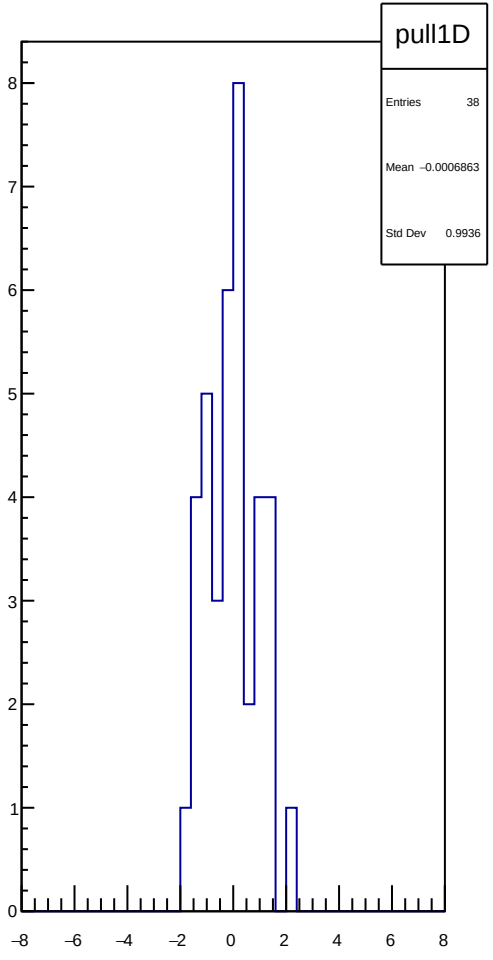

dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 153.2 / 37
p0 1423 ± 1.626
1500
1480
1460
1440
1420
1400
1380
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

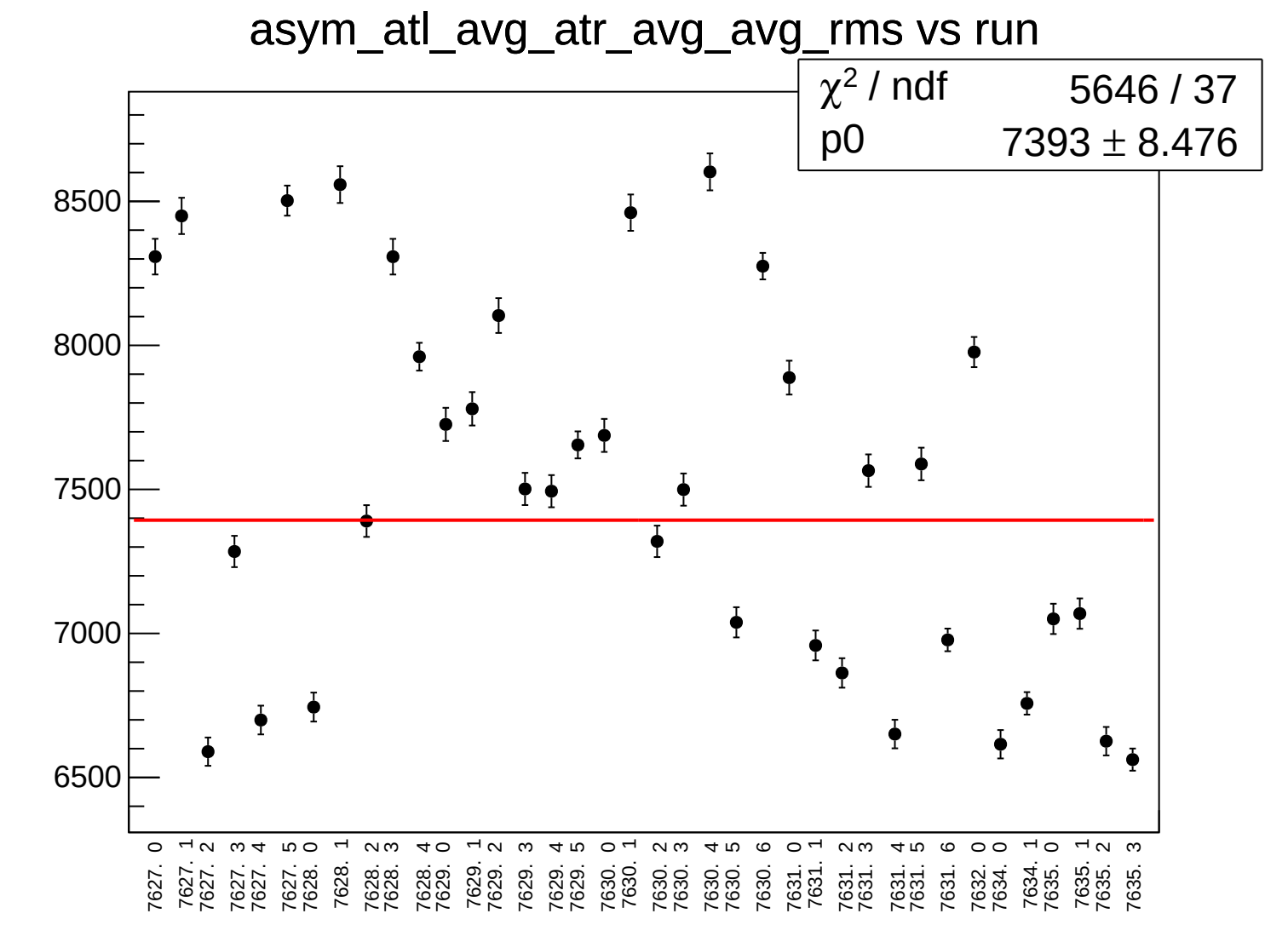

asym_atl_avg_atr_avg_avg_correction_mean vs run
×10^3
χ² / ndf 35.94 / 37
p0 3.012e+04 ± 1.193e+04
300
200
100
0
−100
−200
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 91.5
Std Dev 73.52
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

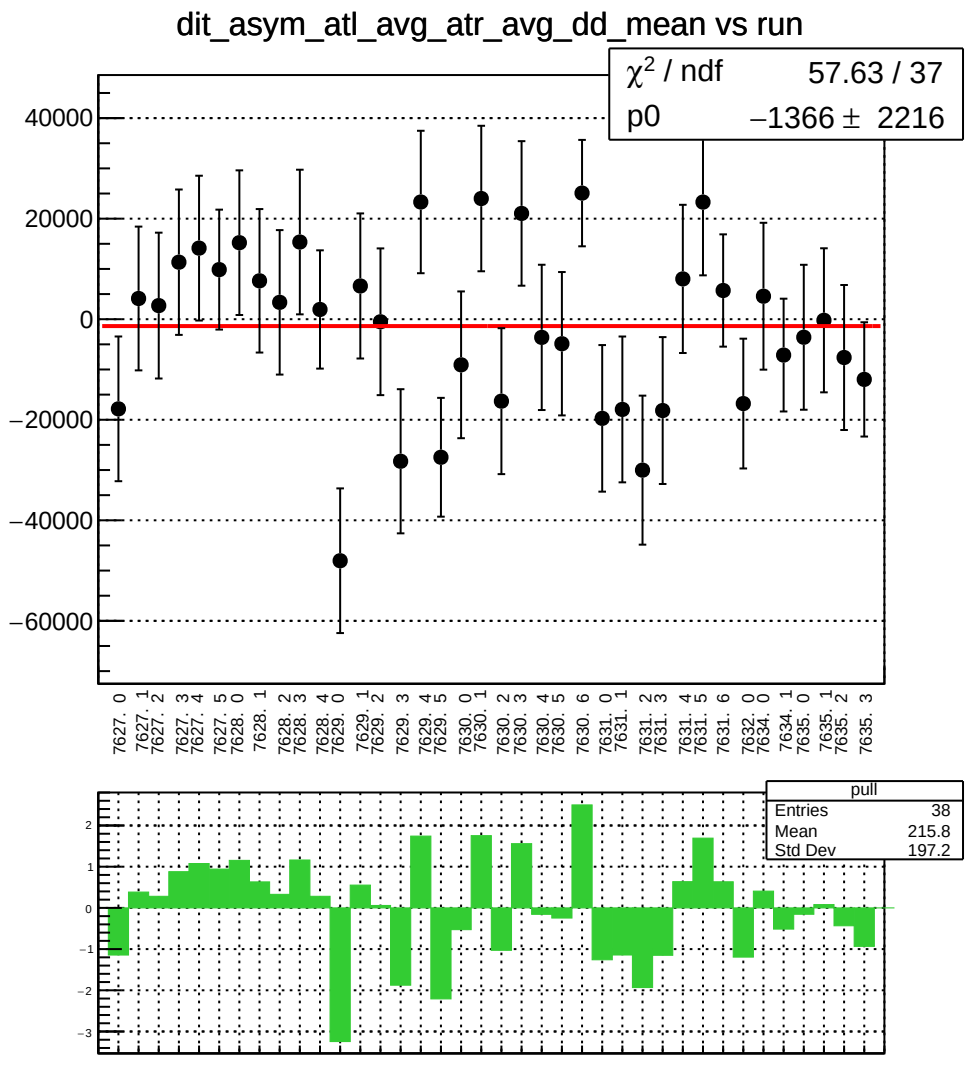

pull1D
Entries 38
Mean 0.002615
Std Dev 0.9725
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

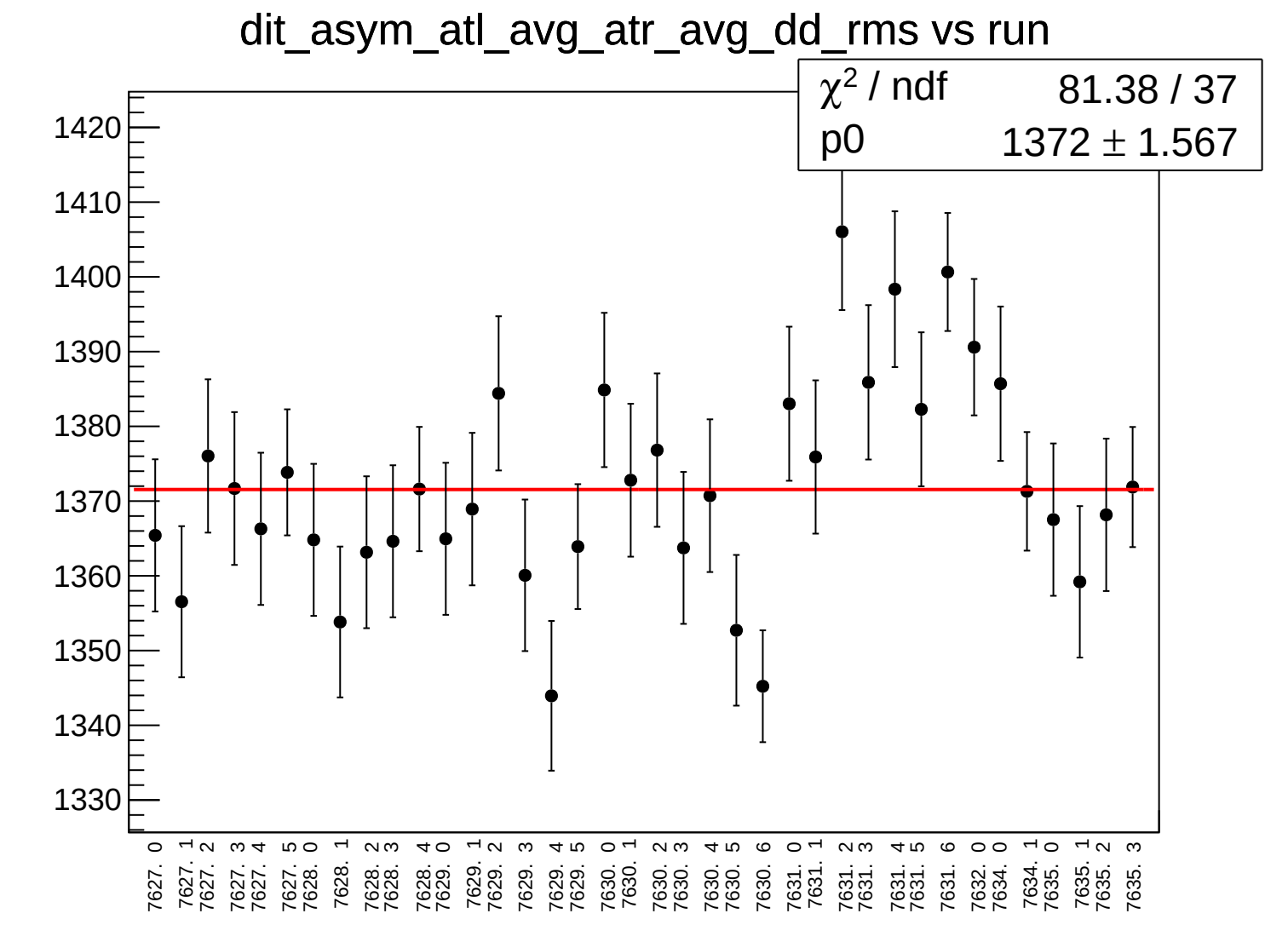

asym_atl_avg_atr_avg_avg_correction_rms vs run
χ² / ndf 6960 / 37
p0 7350 ± 8.434
9000
8500
8000
7500
7000
6500
6000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

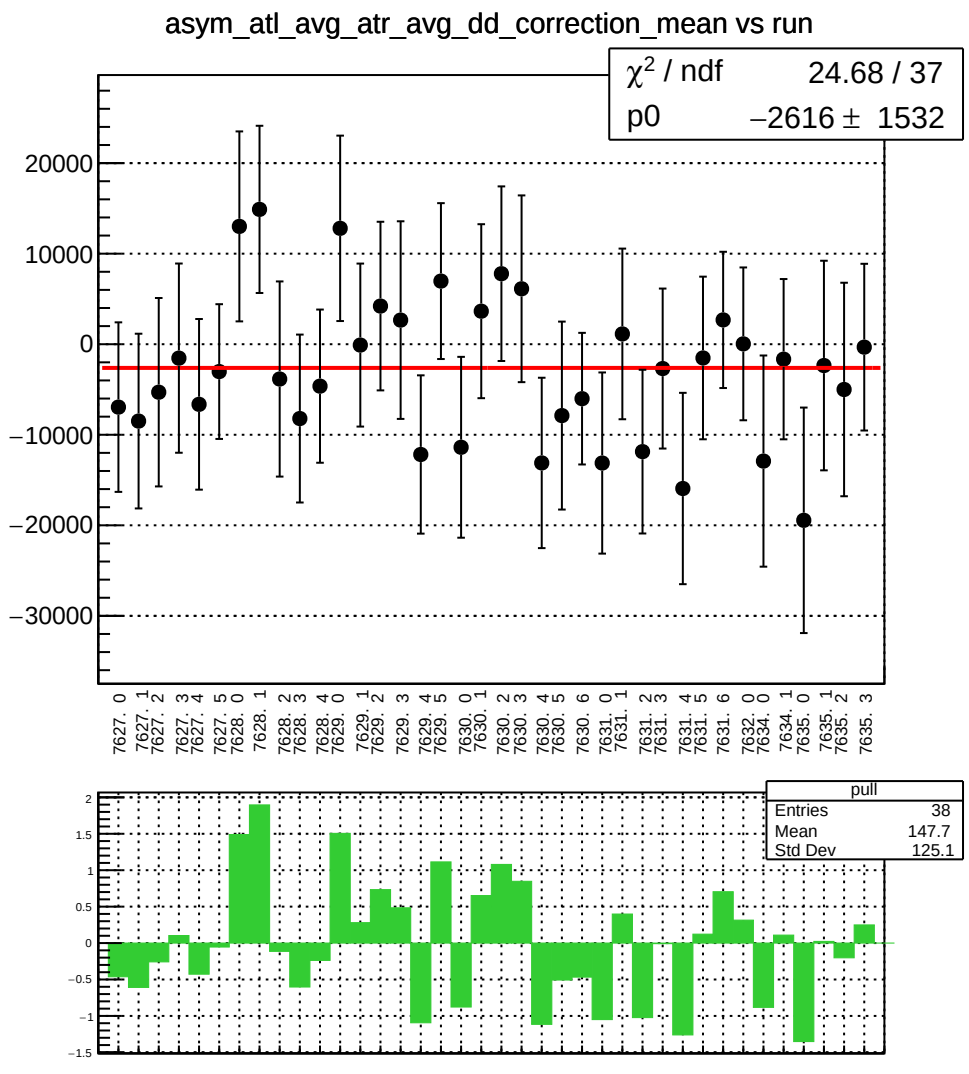

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 37.51 / 37
p0 −2.891e+04 ± 1.199e+04
200
100
0
−100
−200
−300
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −832.2
Std Dev 849.3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

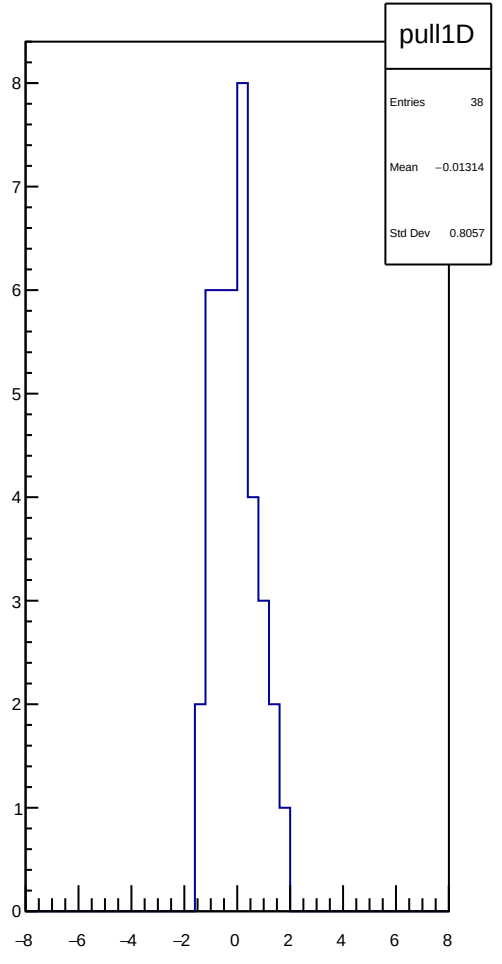

pull1D
Entries 38
Mean −0.0006863
Std Dev 0.9936
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

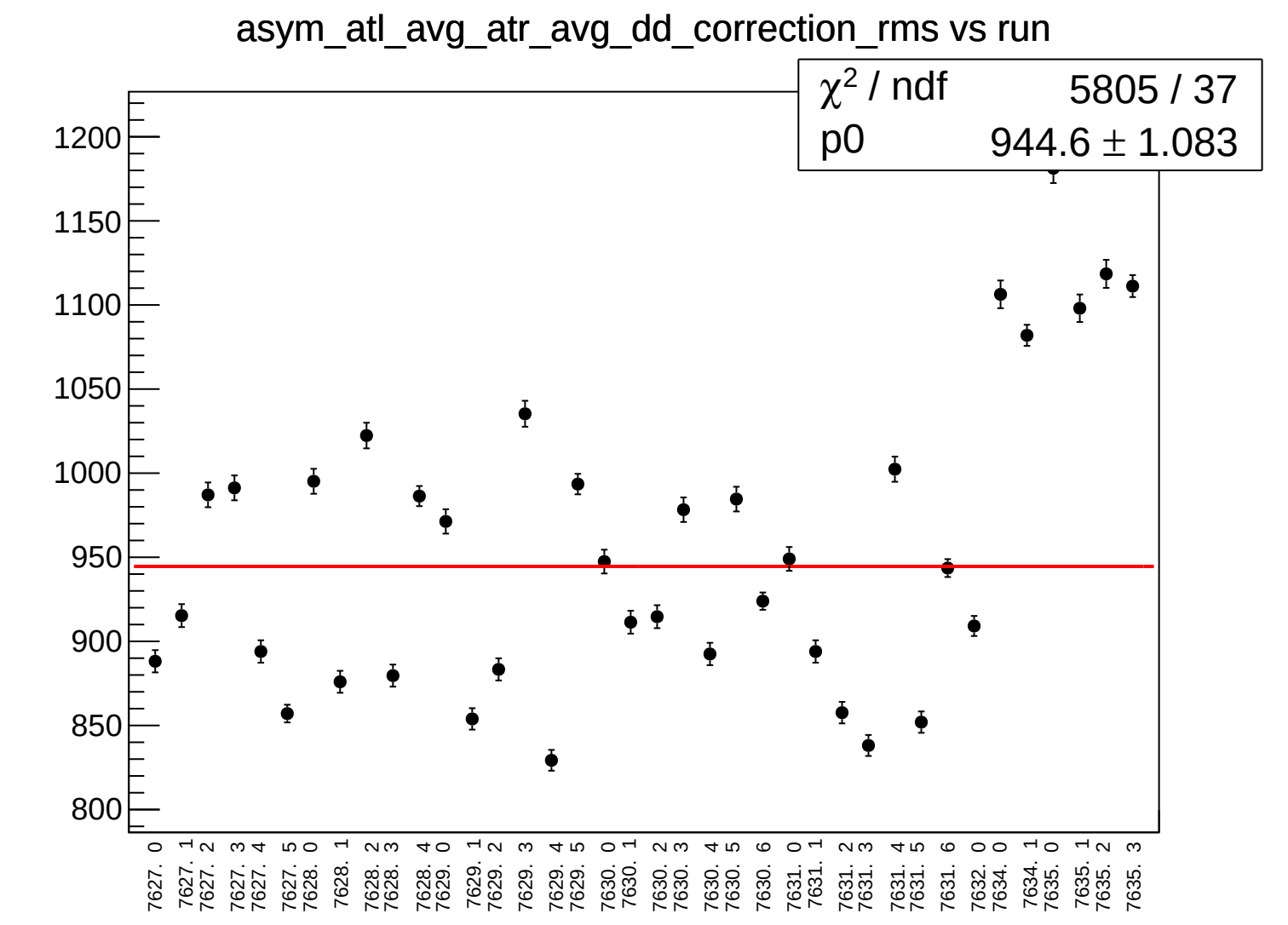

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 5646 / 37
p0 7393 ± 8.476
8500
8000
7500
7000
6500
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

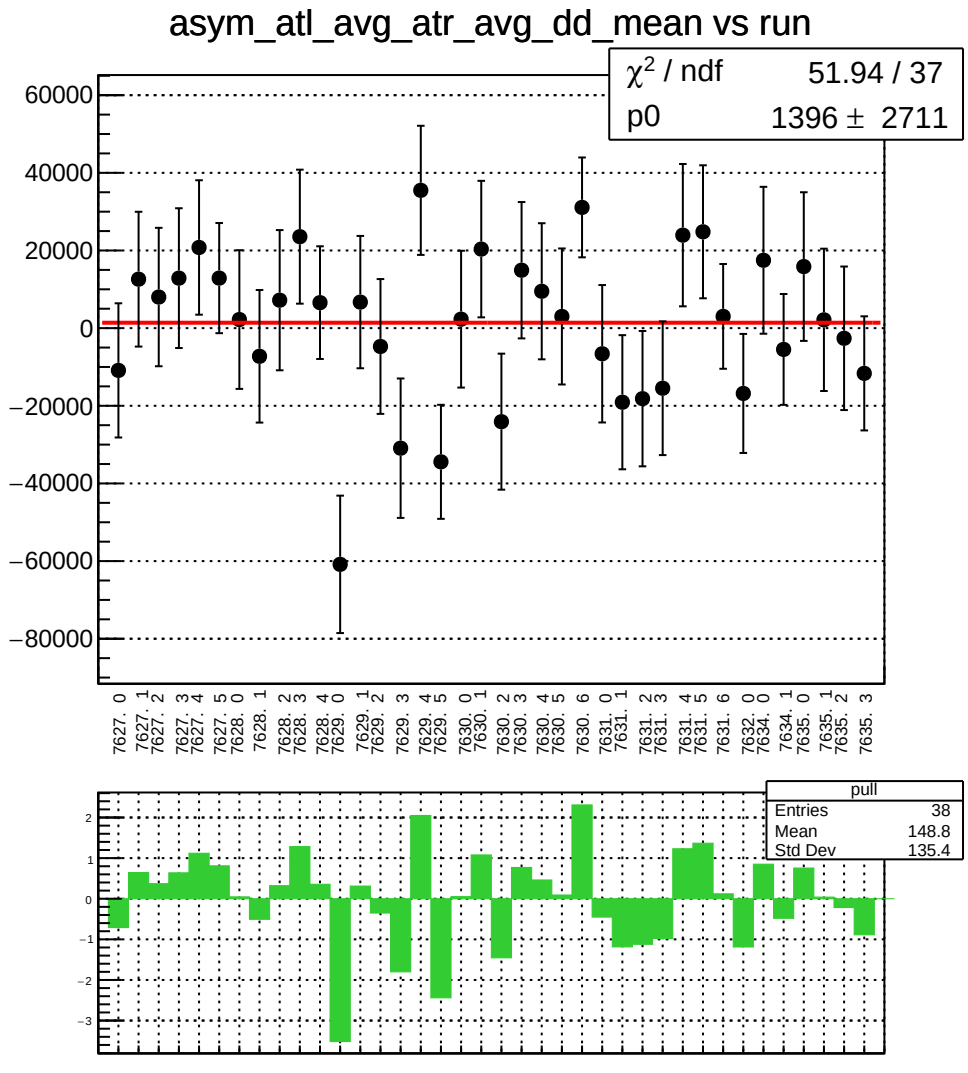

dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 57.63 / 37
p0 −1366 ± 2216
40000
20000
0
−20000
−40000
−60000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 215.8
Std Dev 197.2
2
1
0
−1
−2
−3
pull1D
Entries 38
Mean −0.01083
Std Dev 1.231
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

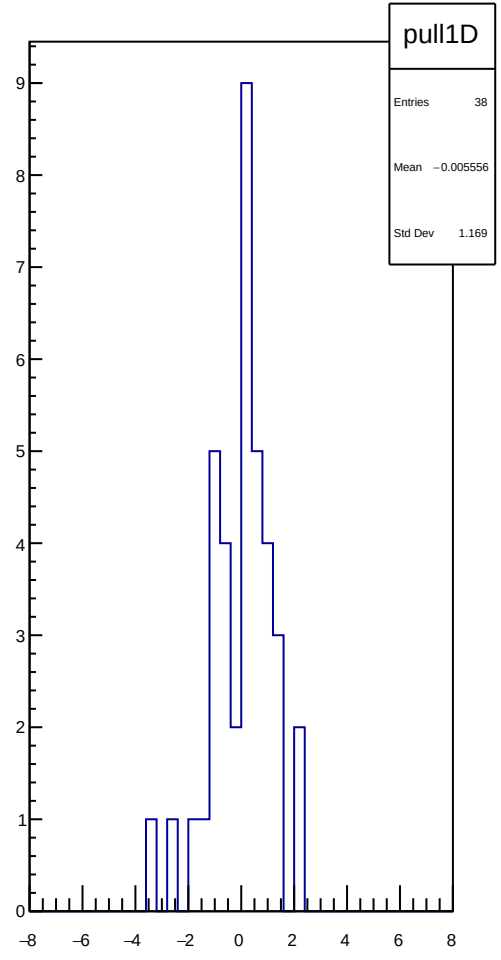

dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 81.38 / 37
p0 1372 ± 1.567
1420
1410
1400
1390
1380
1370
1360
1350
1340
1330
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

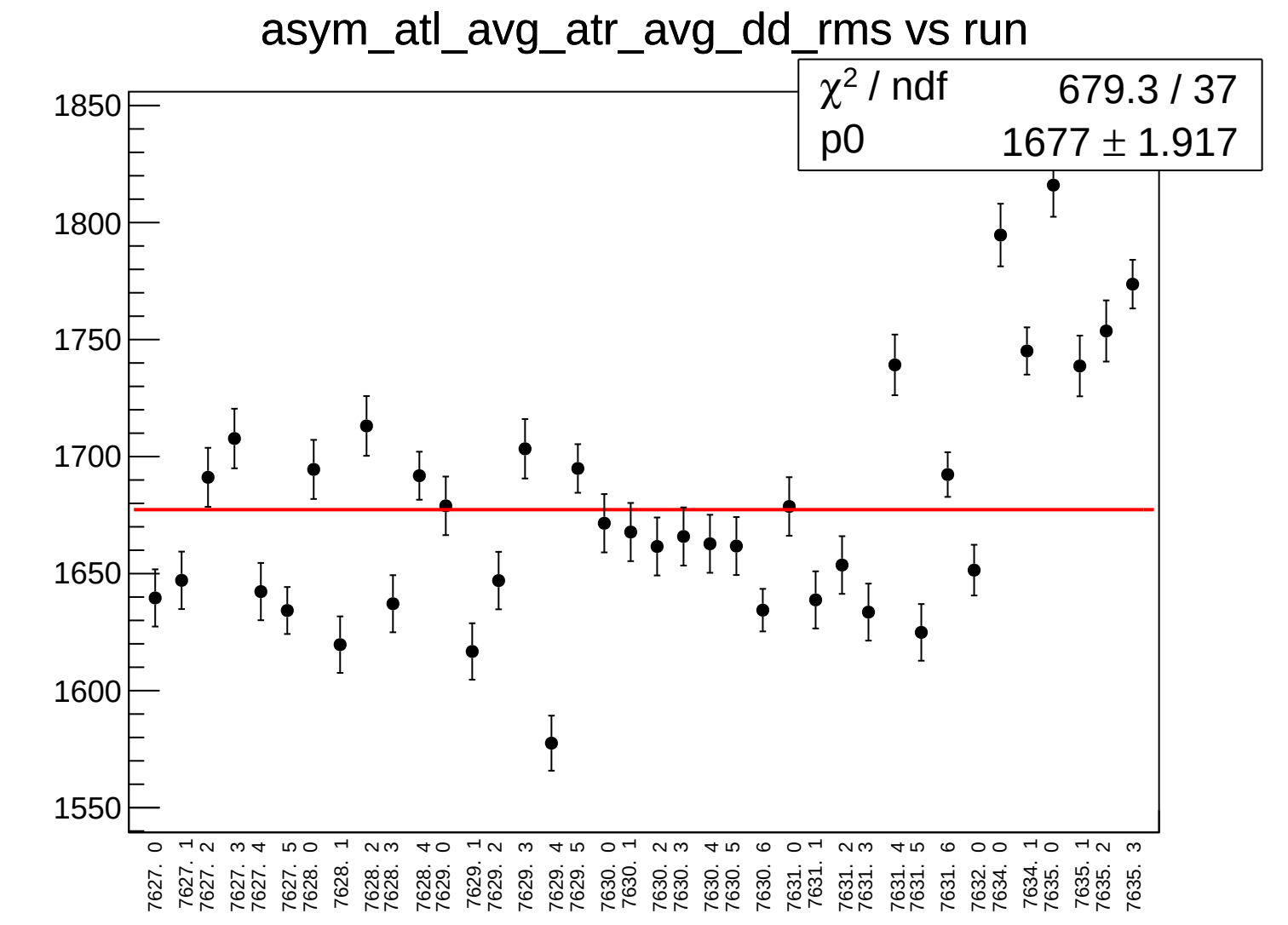

asym_atl_avg_atr_avg_dd_correction_mean vs run
χ² / ndf 24.68 / 37
p0 −2616 ± 1532
20000
10000
0
−10000
−20000
−30000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 147.7
Std Dev 125.1
2
1.5
1
0.5
0
−0.5
−1
−1.5

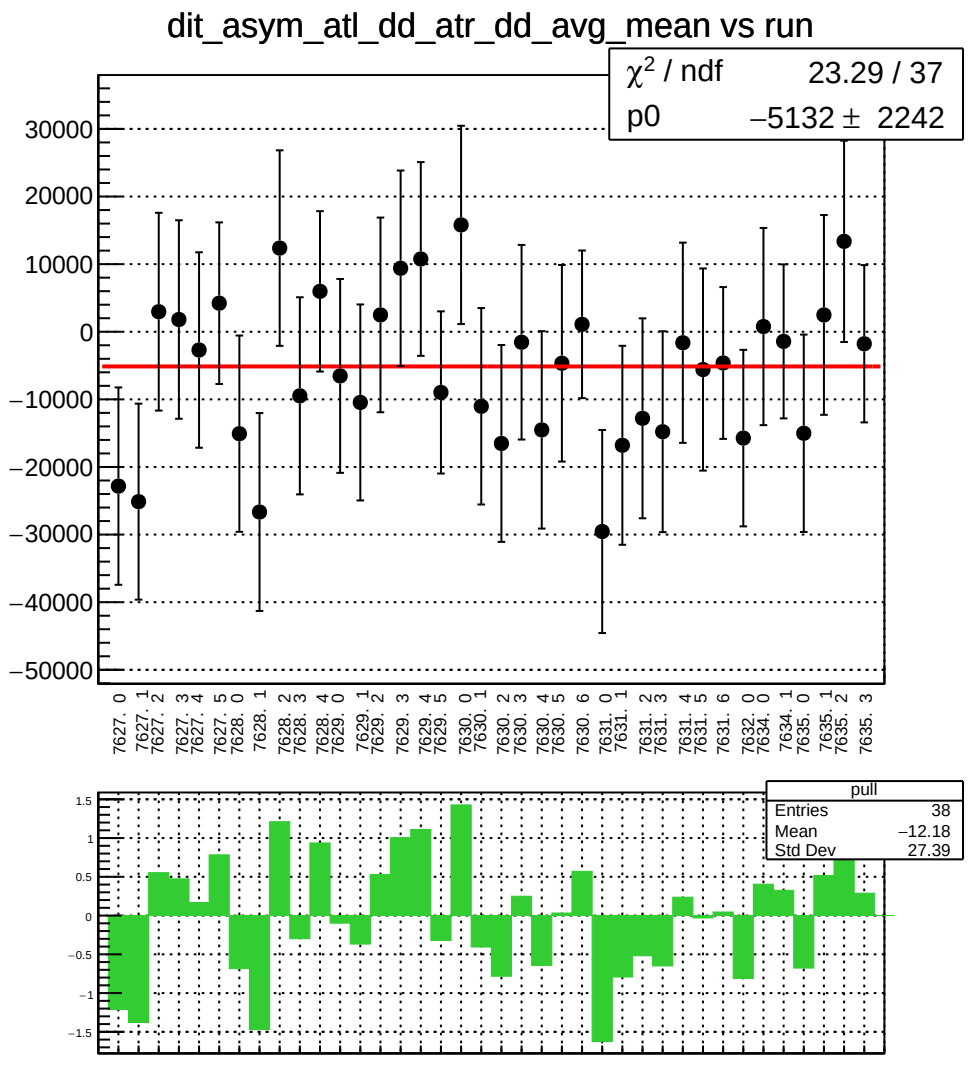

pull1D
Entries 38
Mean −0.01314
Std Dev 0.8057
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

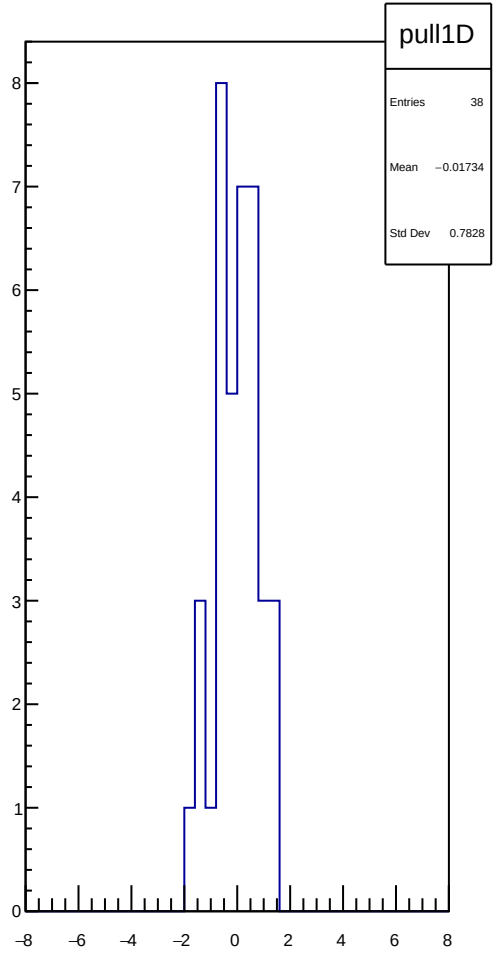

asym_atl_avg_atr_avg_dd_correction_rms vs run
χ^2 / ndf 5805 / 37
p0 944.6 ± 1.083
1200
1150
1100
1050
1000
950
900
850
800
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

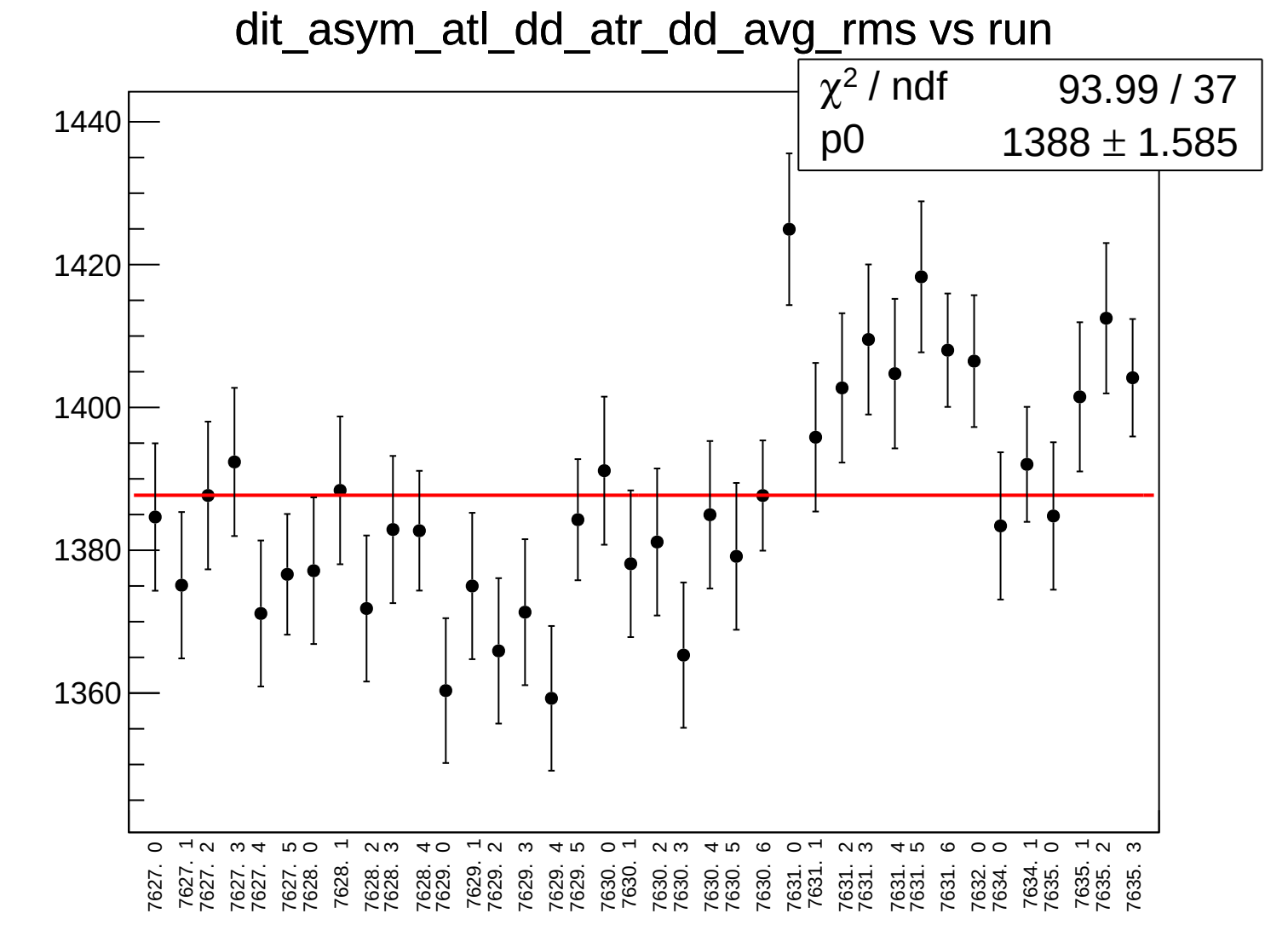

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 51.94 / 37
p0 1396 ± 2711
60000
40000
20000
0
−20000
−40000
−60000
−80000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 148.8
Std Dev 135.4
2
1
0
−1
−2
−3

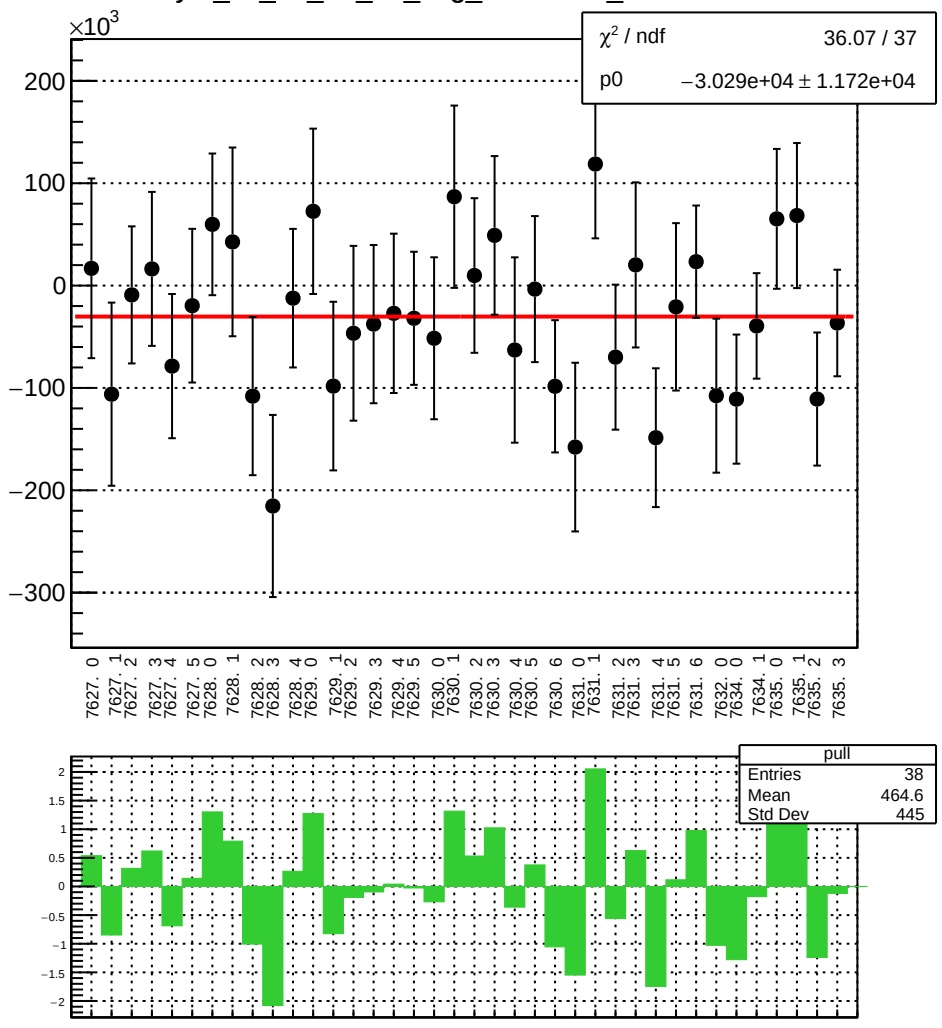

pull1D
Entries 38
Mean −0.005556
Std Dev 1.169
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

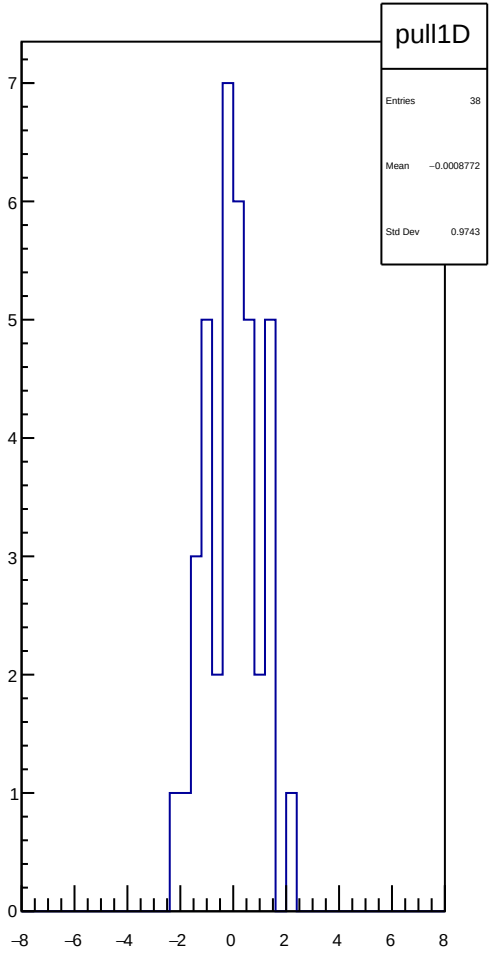

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 679.3 / 37
p0 1677 ± 1.917
1850
1800
1750
1700
1650
1600
1550
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

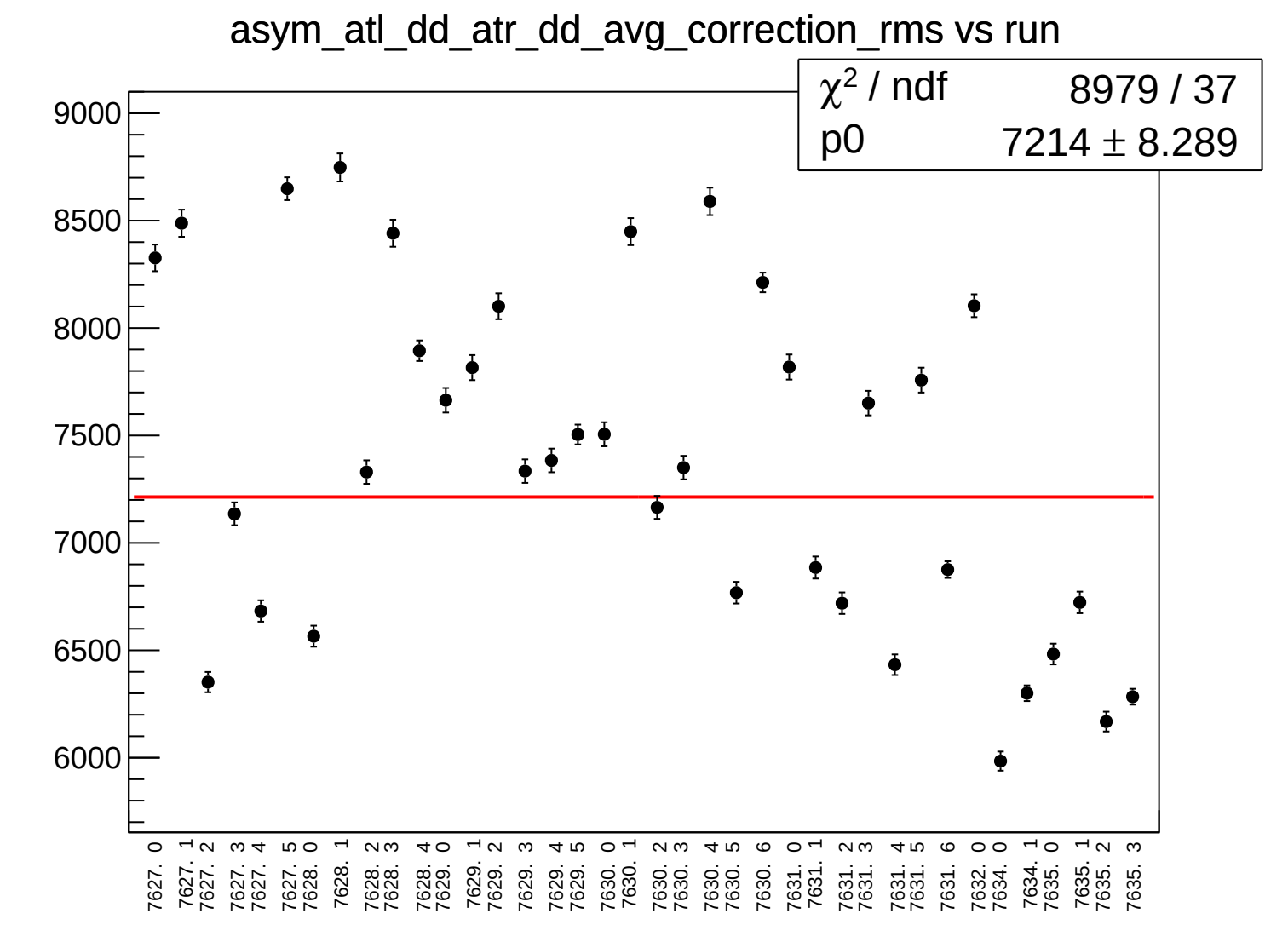

dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 23.29 / 37
p0 −5132 ± 2242
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −12.18
Std Dev 27.39
1.5
1
0.5
0
−0.5
−1
−1.5

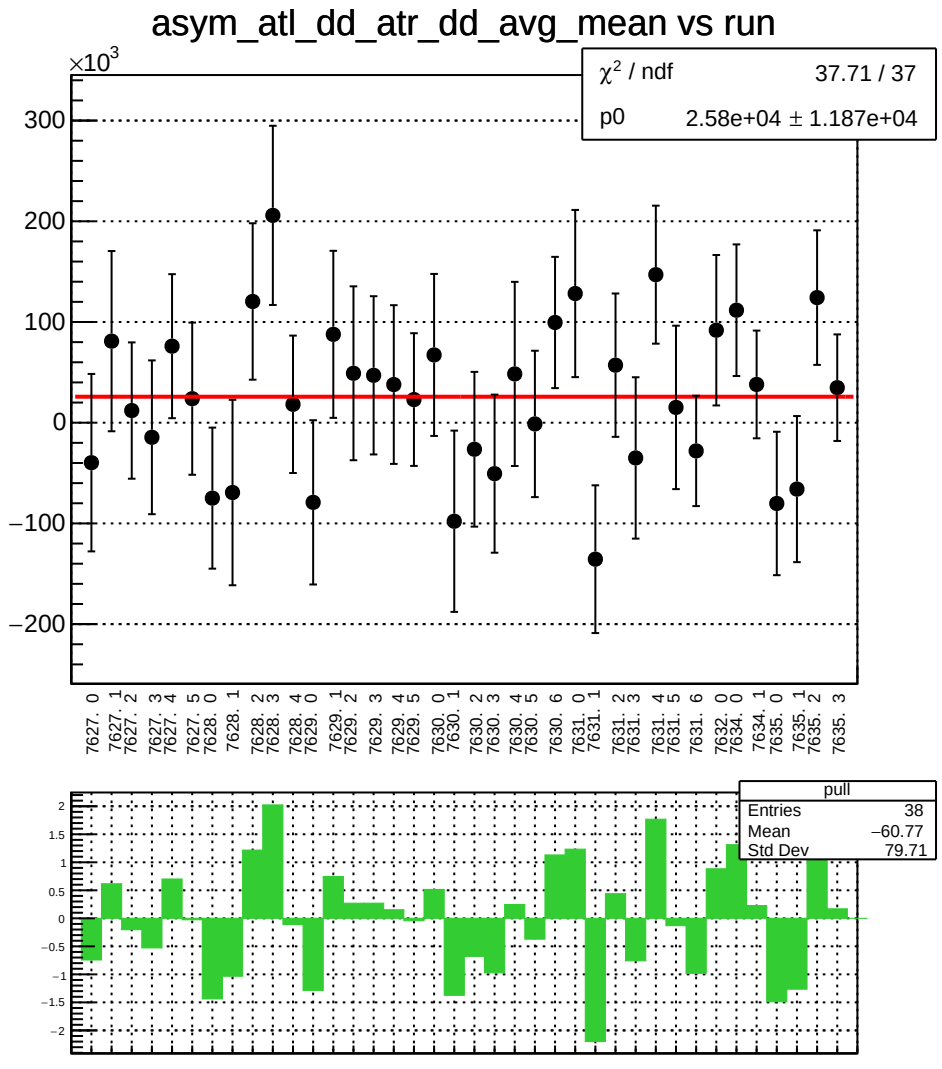

pull1D
Entries 38
Mean −0.01734
Std Dev 0.7828
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

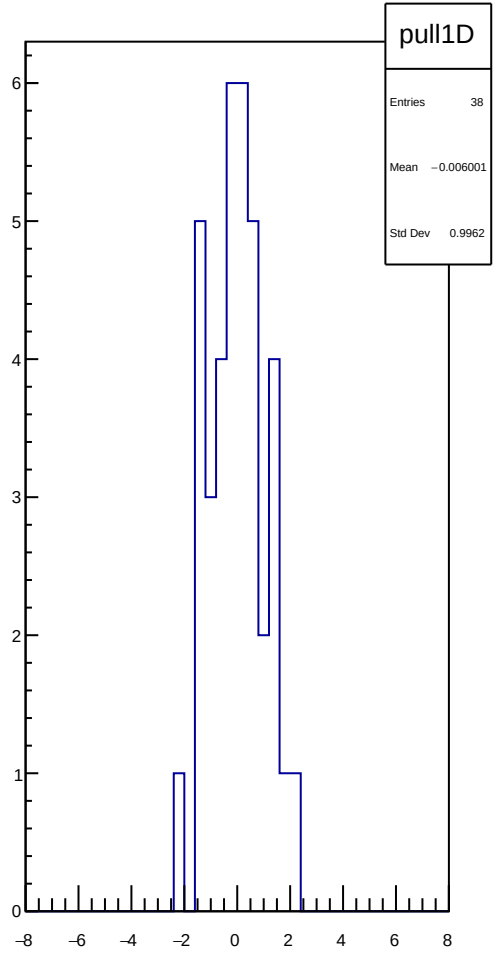

dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 93.99 / 37
p0 1388 ± 1.585
1440
1420
1400
1380
1360
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

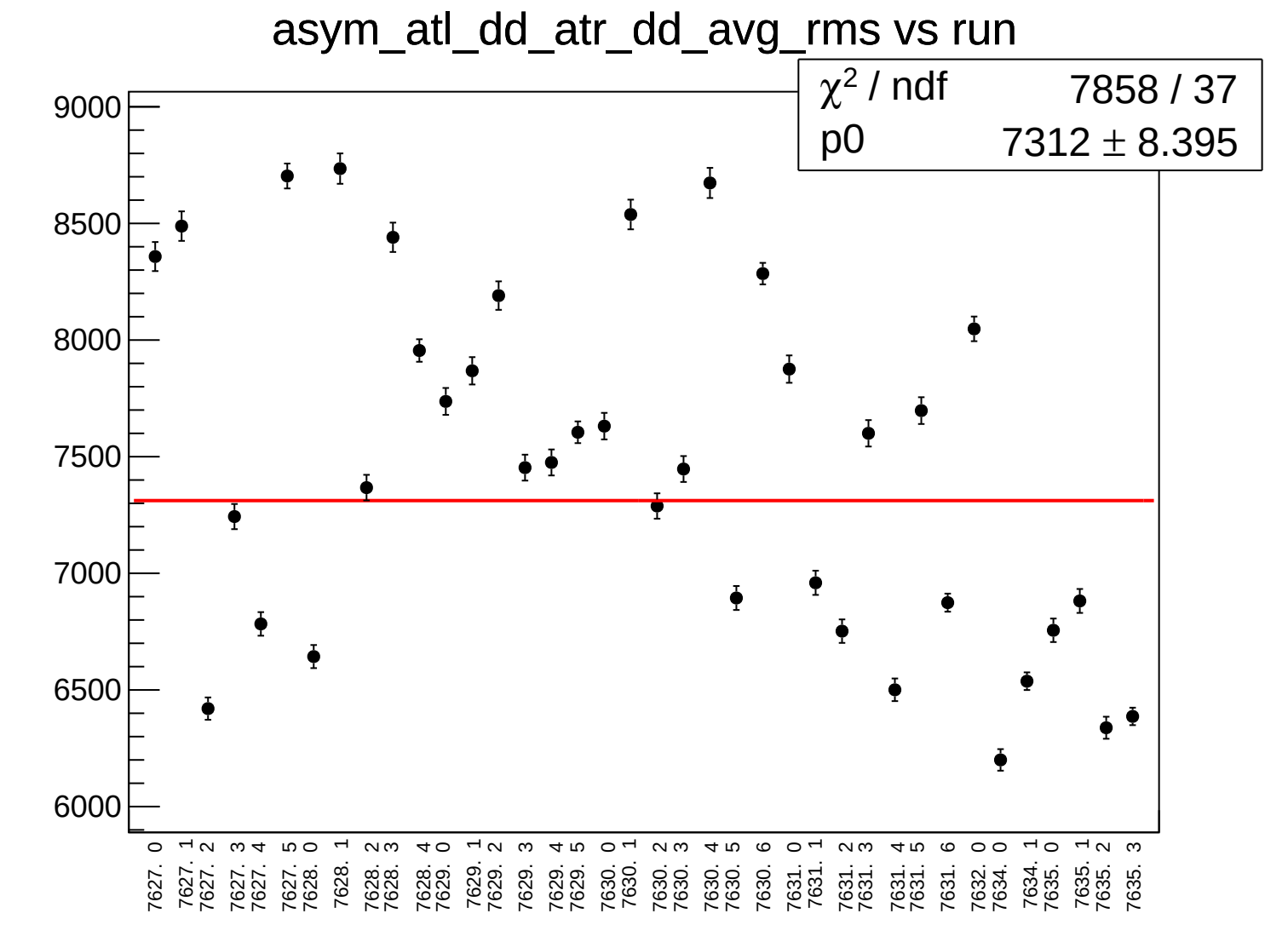

asym_atl_dd_atr_dd_avg_correction_mean vs run
×10^3
χ² / ndf 36.07 / 37
p0 −3.029e+04 ± 1.172e+04
200
100
0
−100
−200
−300
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 464.6
Std Dev 445
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

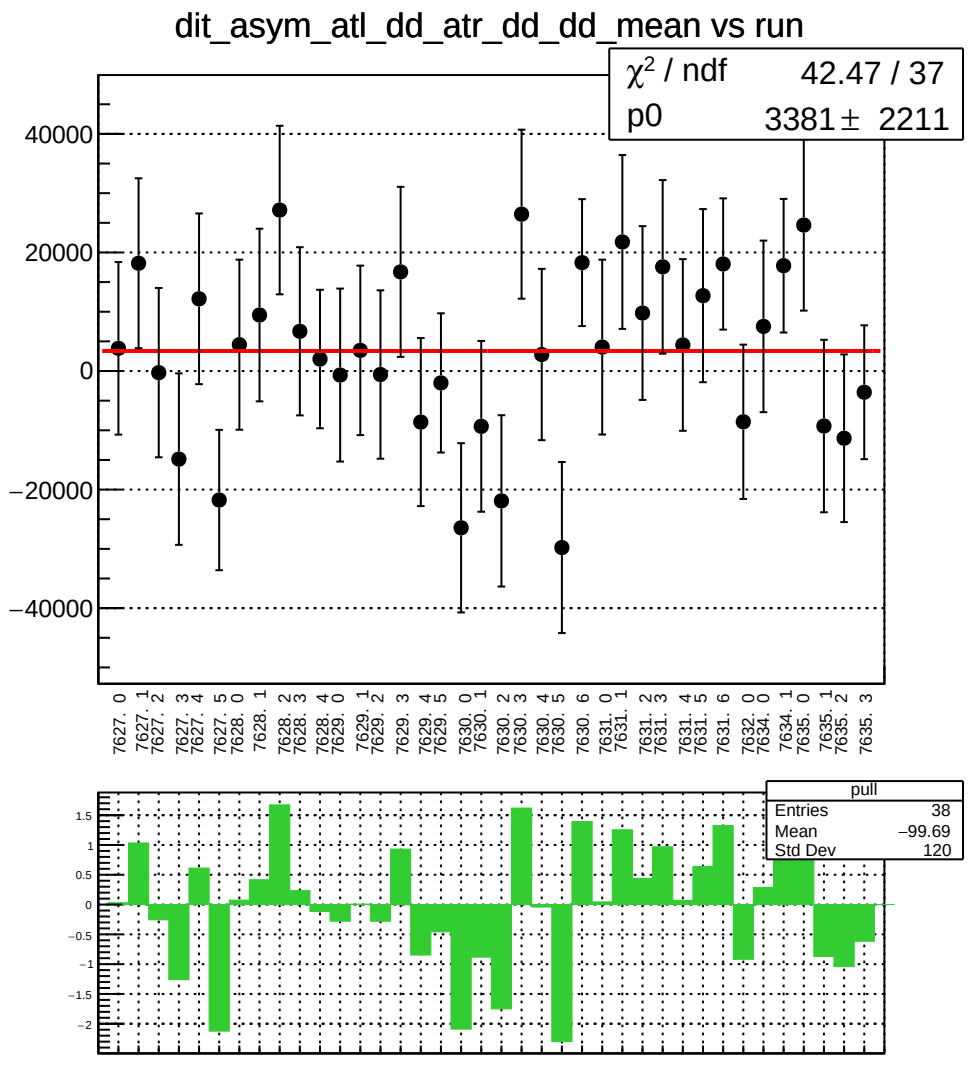

pull1D
Entries 38
Mean −0.0008772
Std Dev 0.9743
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

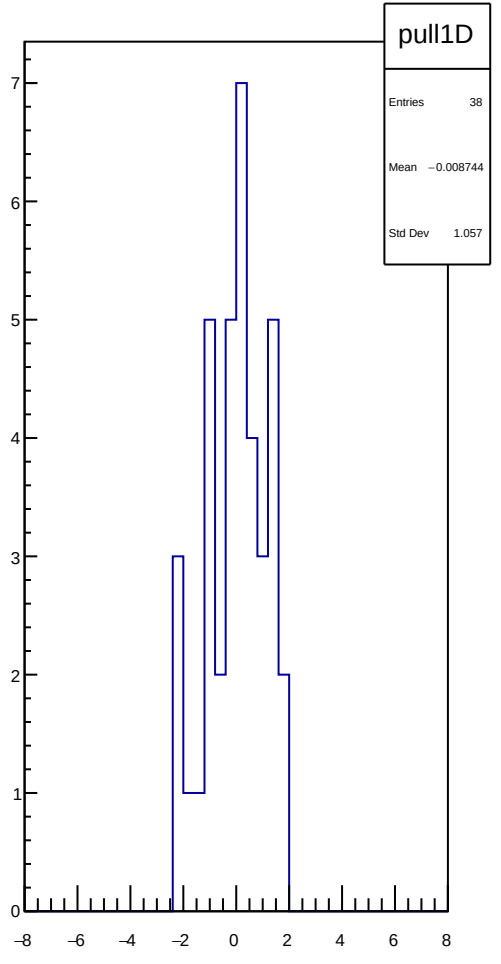

asym_atl_dd_atr_dd_avg_correction_rms vs run
χ² / ndf 8979 / 37
p0 7214 ± 8.289
9000
8500
8000
7500
7000
6500
6000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

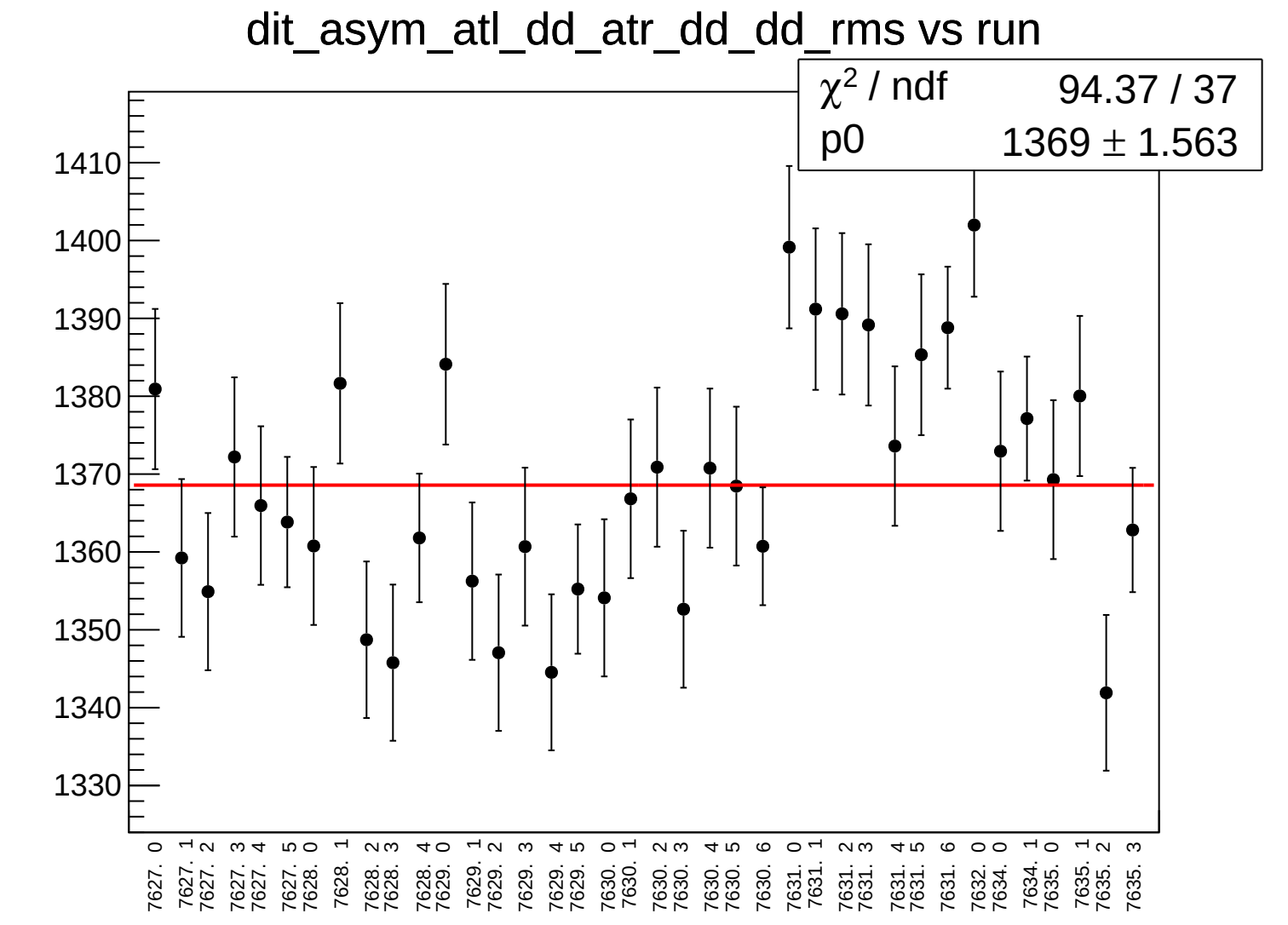

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 37.71 / 37
p0 2.58e+04 ± 1.187e+04
300
200
100
0
−100
−200
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −60.77
Std Dev 79.71
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

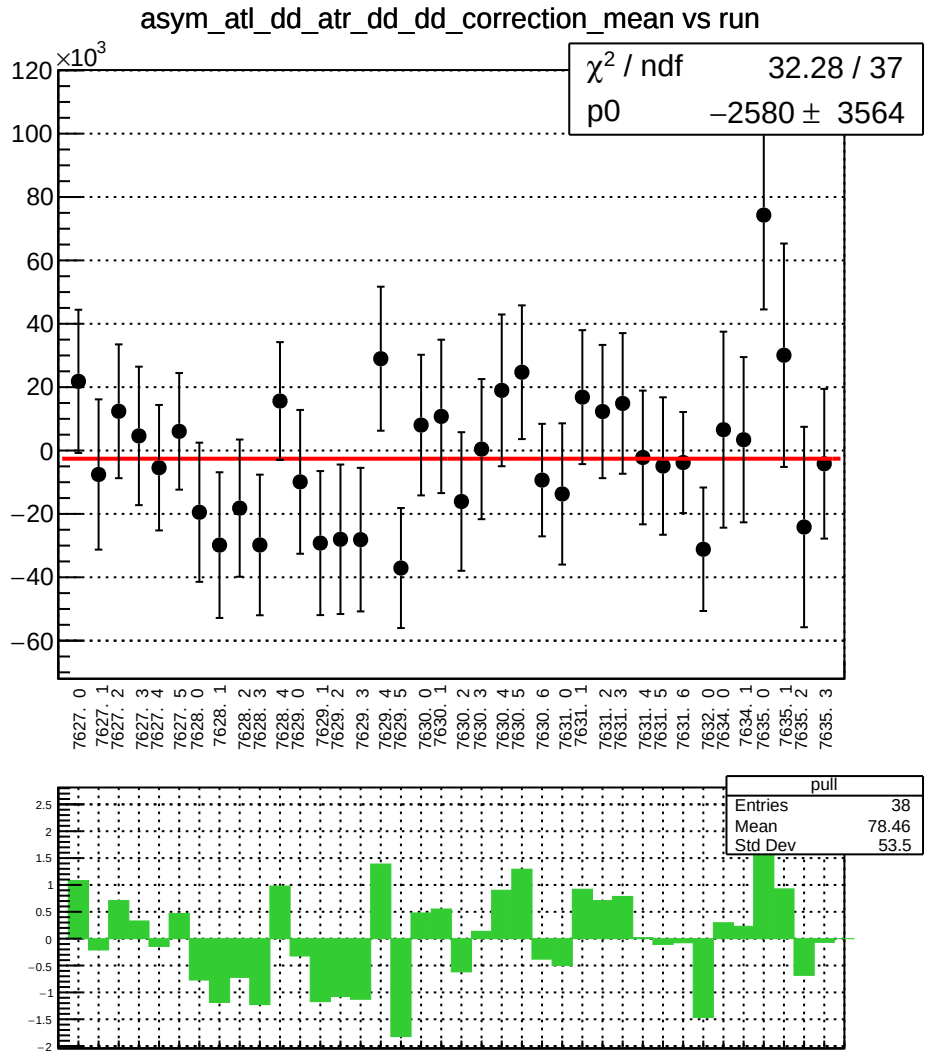

pull1D
Entries 38
Mean −0.006001
Std Dev 0.9962
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

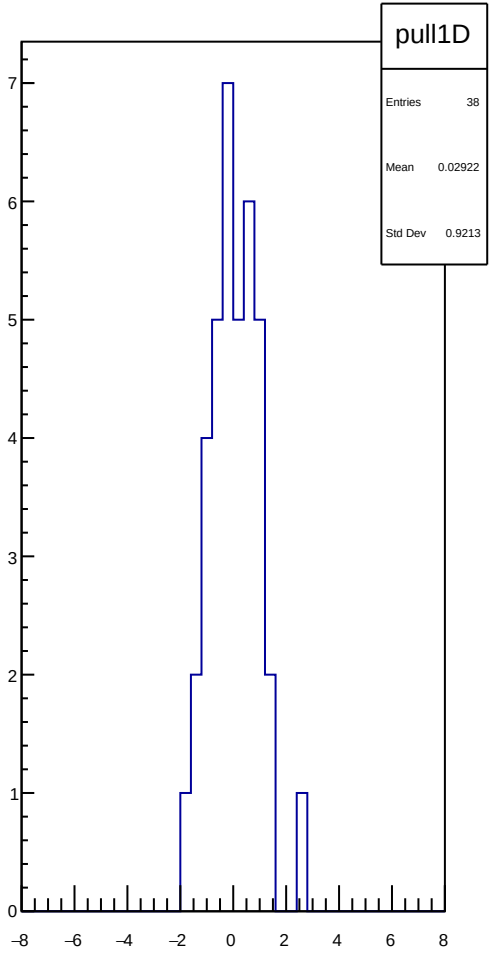

asym_atl_dd_atr_dd_avg_rms vs run
χ^2 / ndf 7858 / 37
p0 7312 ± 8.395
9000
8500
8000
7500
7000
6500
6000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

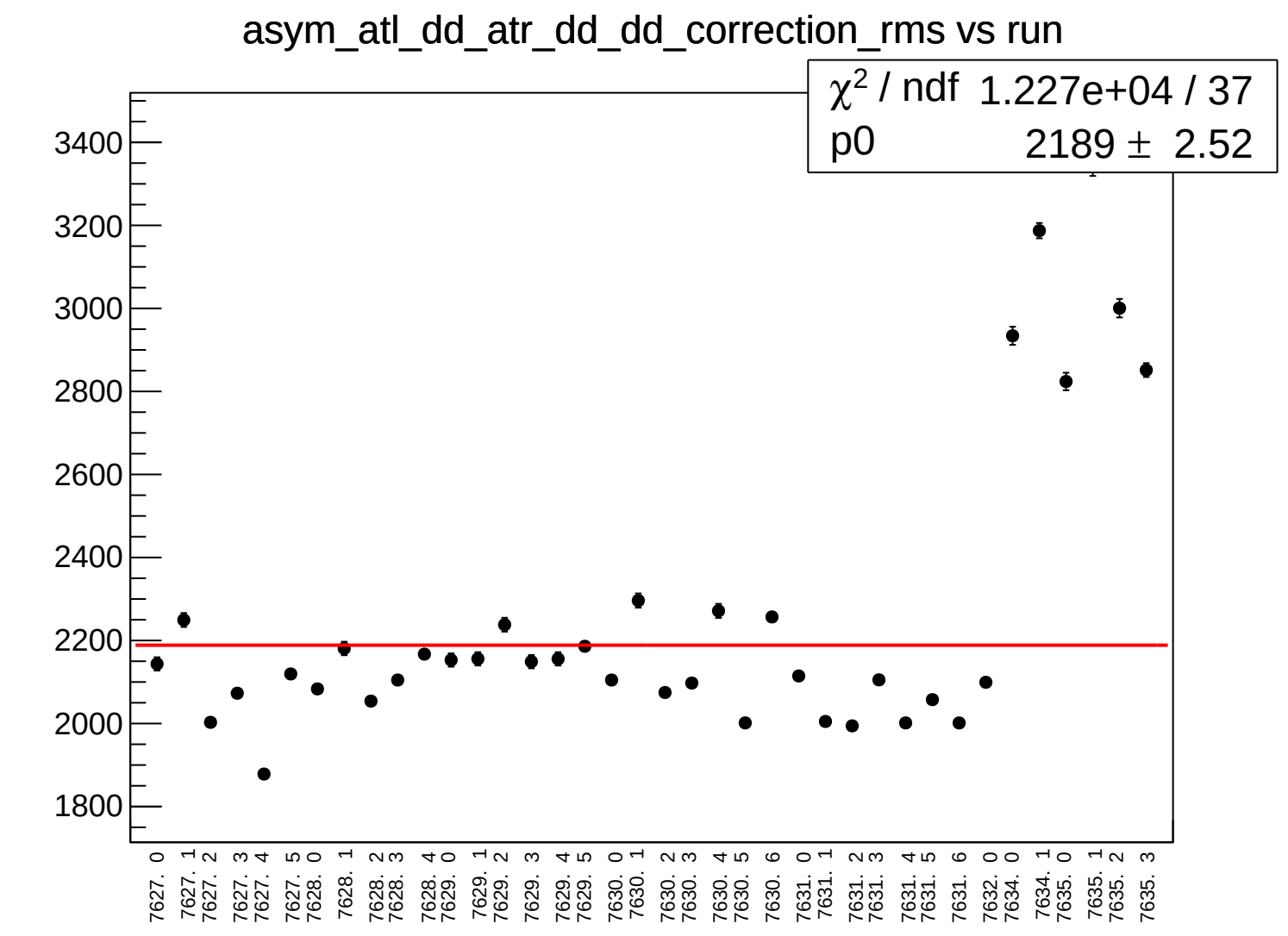

dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 42.47 / 37
p0 3381 ± 2211
40000
20000
0
−20000
−40000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −99.69
Std Dev 120
1.5
1
0.5
0
−0.5
−1
−1.5
−2

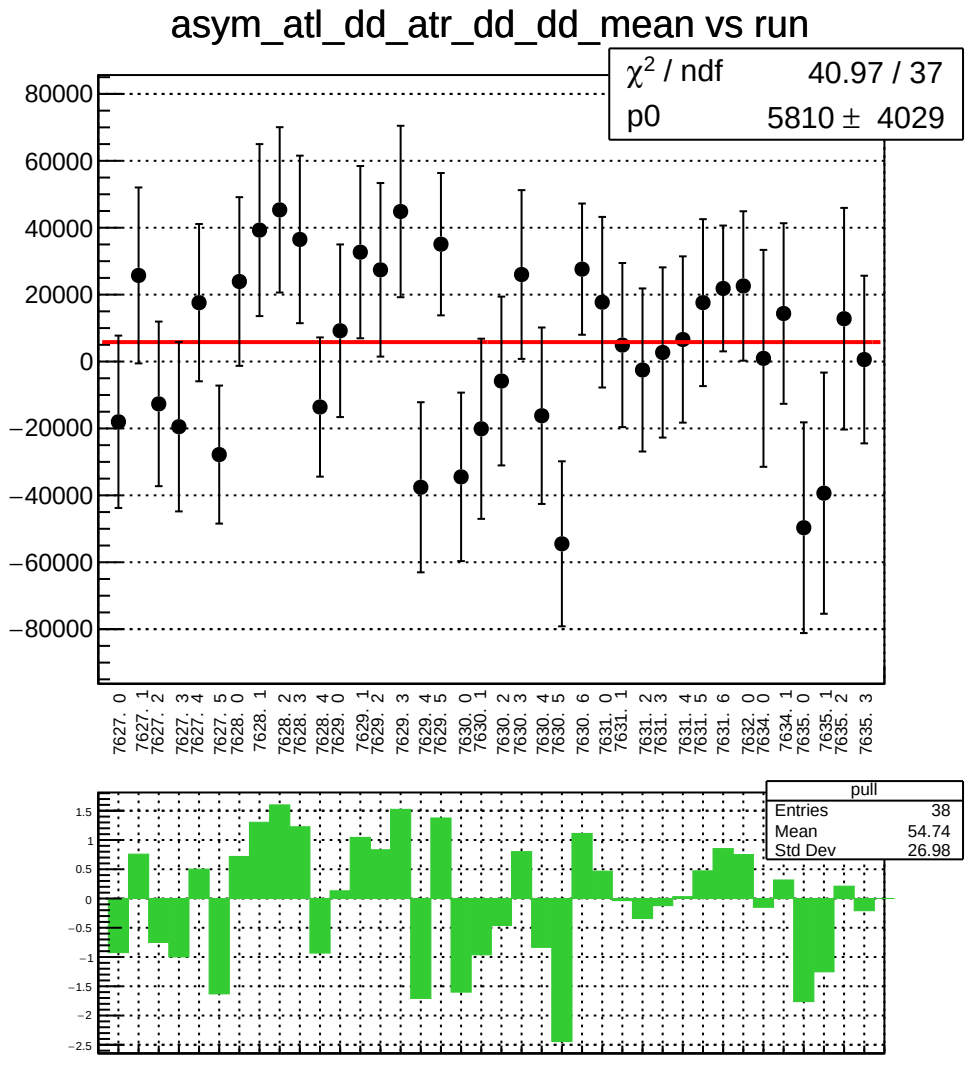

pull1D
Entries 38
Mean −0.008744
Std Dev 1.057
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

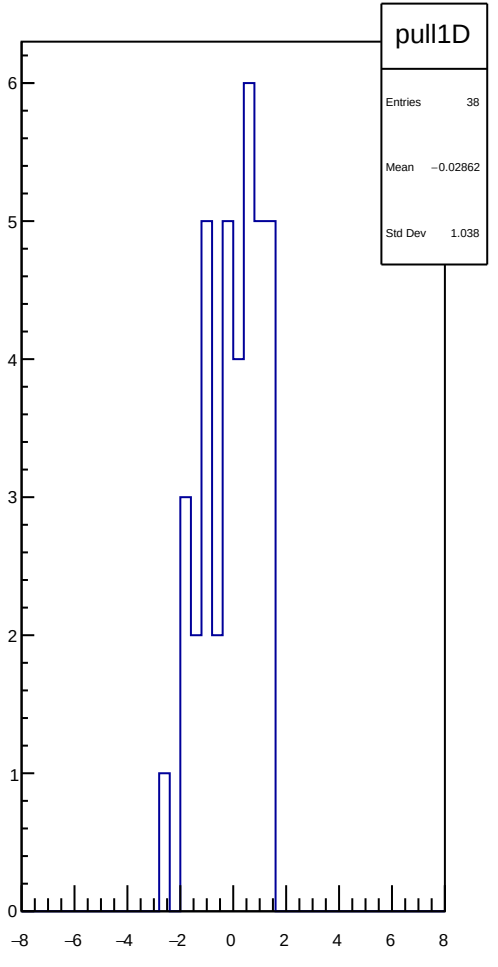

dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 94.37 / 37
p0 1369 ± 1.563
1410
1400
1390
1380
1370
1360
1350
1340
1330
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

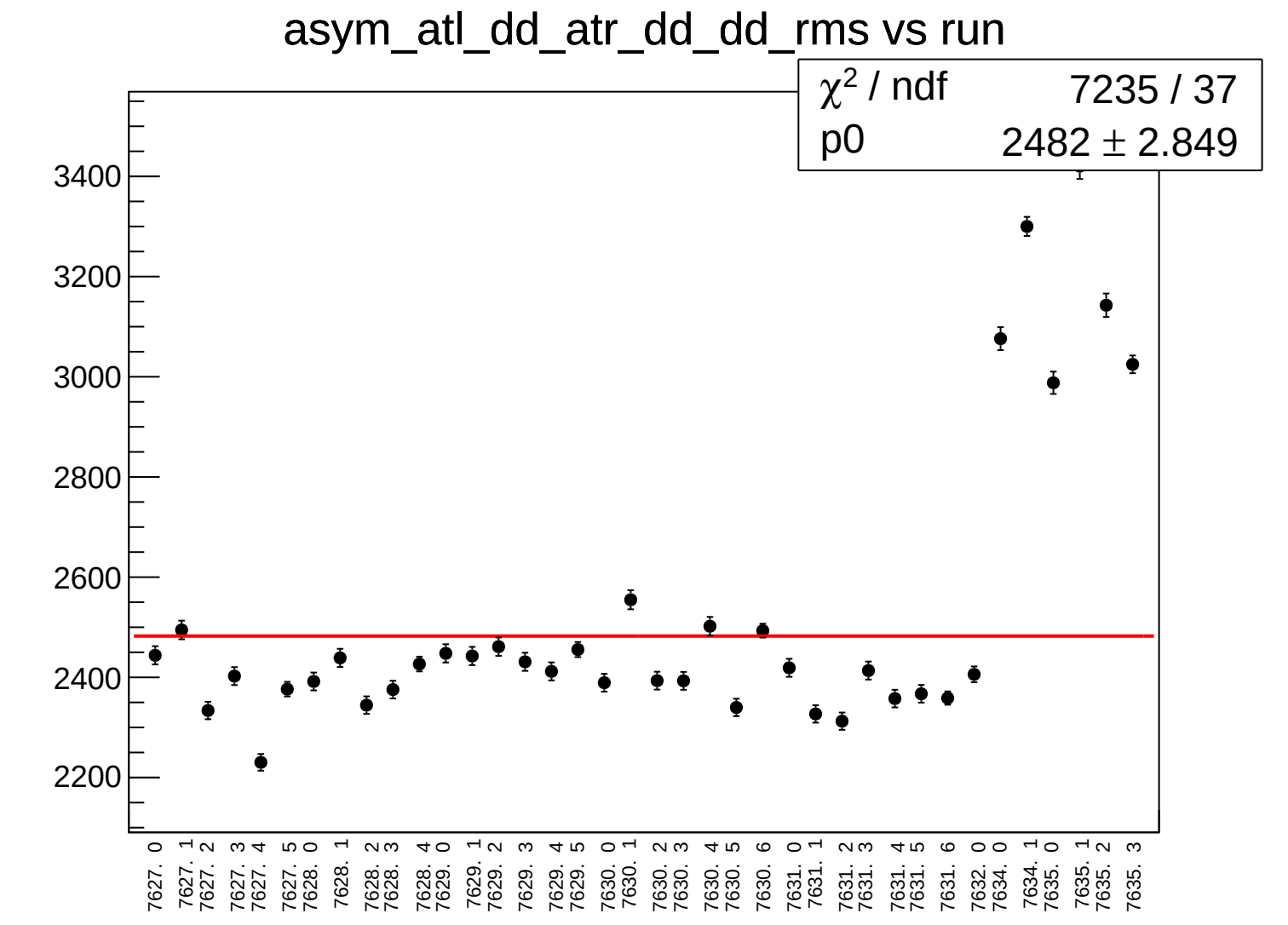

asym_atl_dd_atr_dd_dd_correction_mean vs run
χ² / ndf 32.28 / 37
p0 −2580 ± 3564
×10³
pull
Entries 38
Mean 78.46
Std Dev 53.5

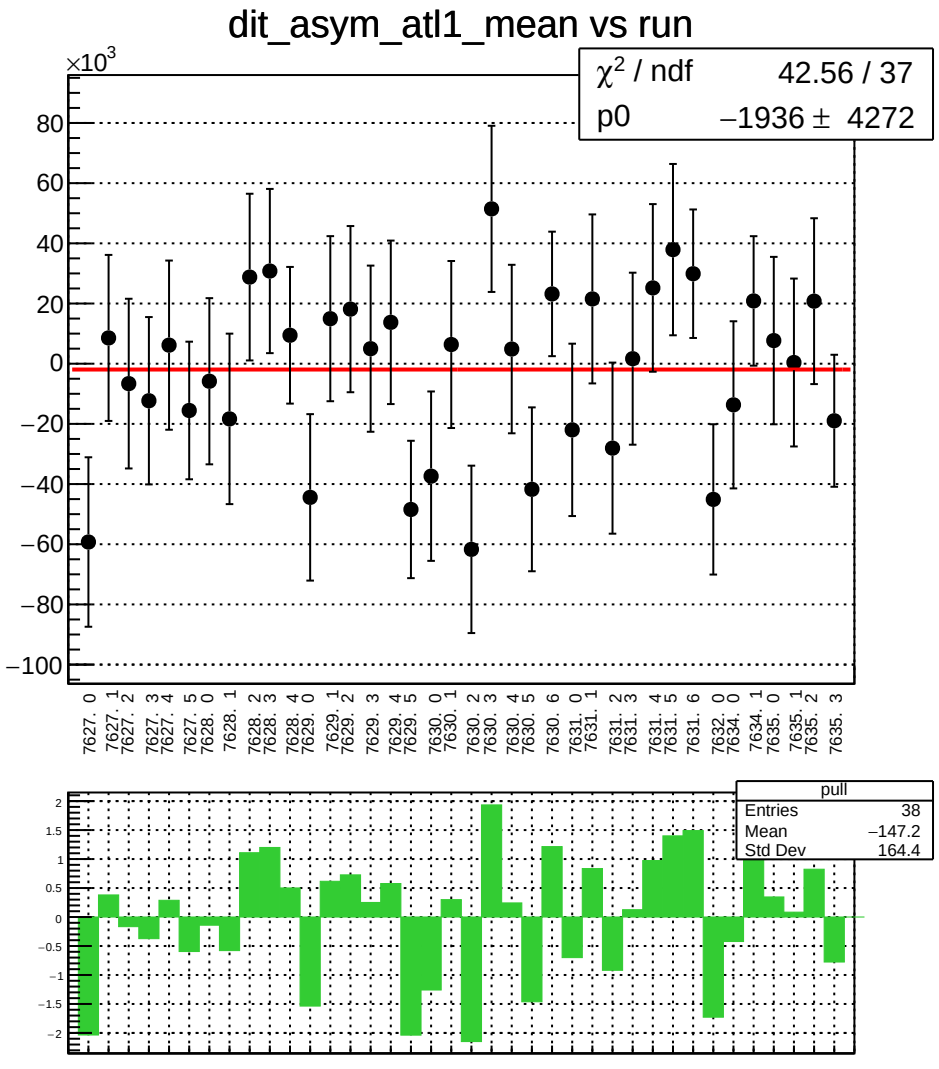

pull1D
Entries 38
Mean 0.02922
Std Dev 0.9213

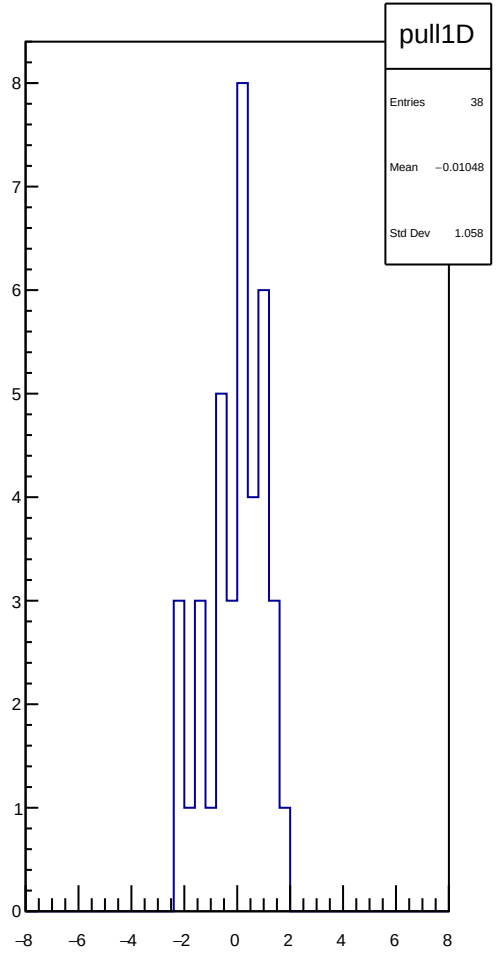

asym_atl_dd_atr_dd_dd_correction_rms vs run
χ² / ndf 1.227e+04 / 37
p0 2189 ± 2.52
3400
3200
3000
2800
2600
2400
2200
2000
1800
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

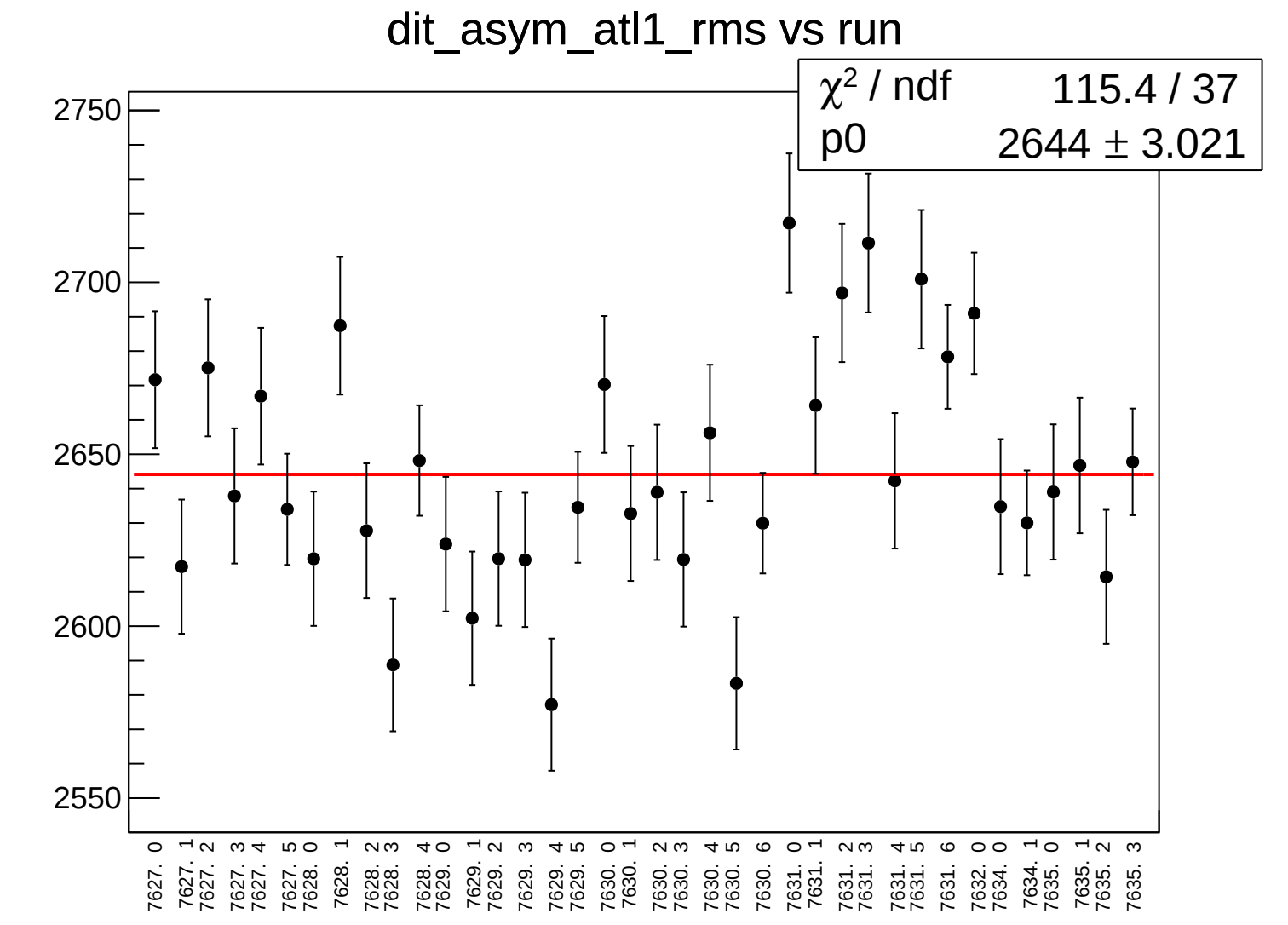

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 40.97 / 37
p0 5810 ± 4029
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 54.74
Std Dev 26.98
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

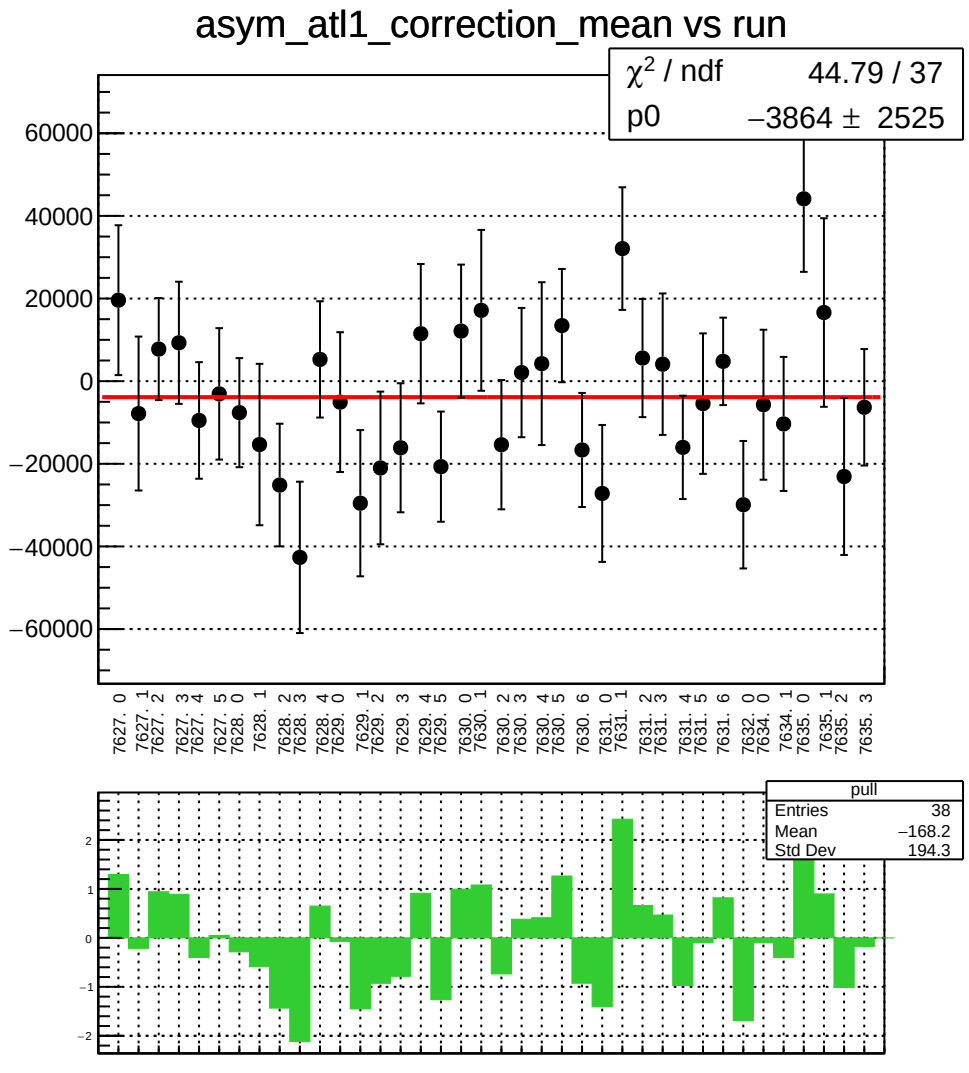

pull1D
Entries 38
Mean −0.02862
Std Dev 1.038
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

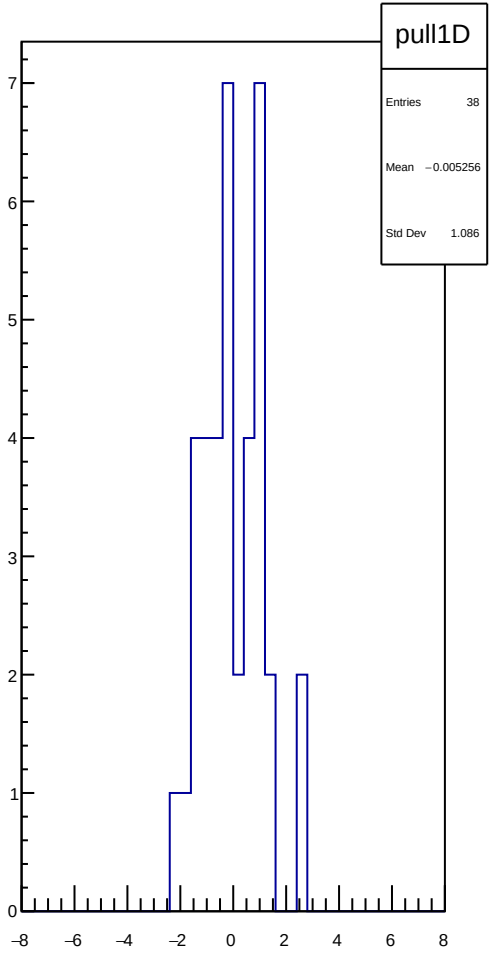

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 7235 / 37
p0 2482 ± 2.849
3400
3200
3000
2800
2600
2400
2200
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

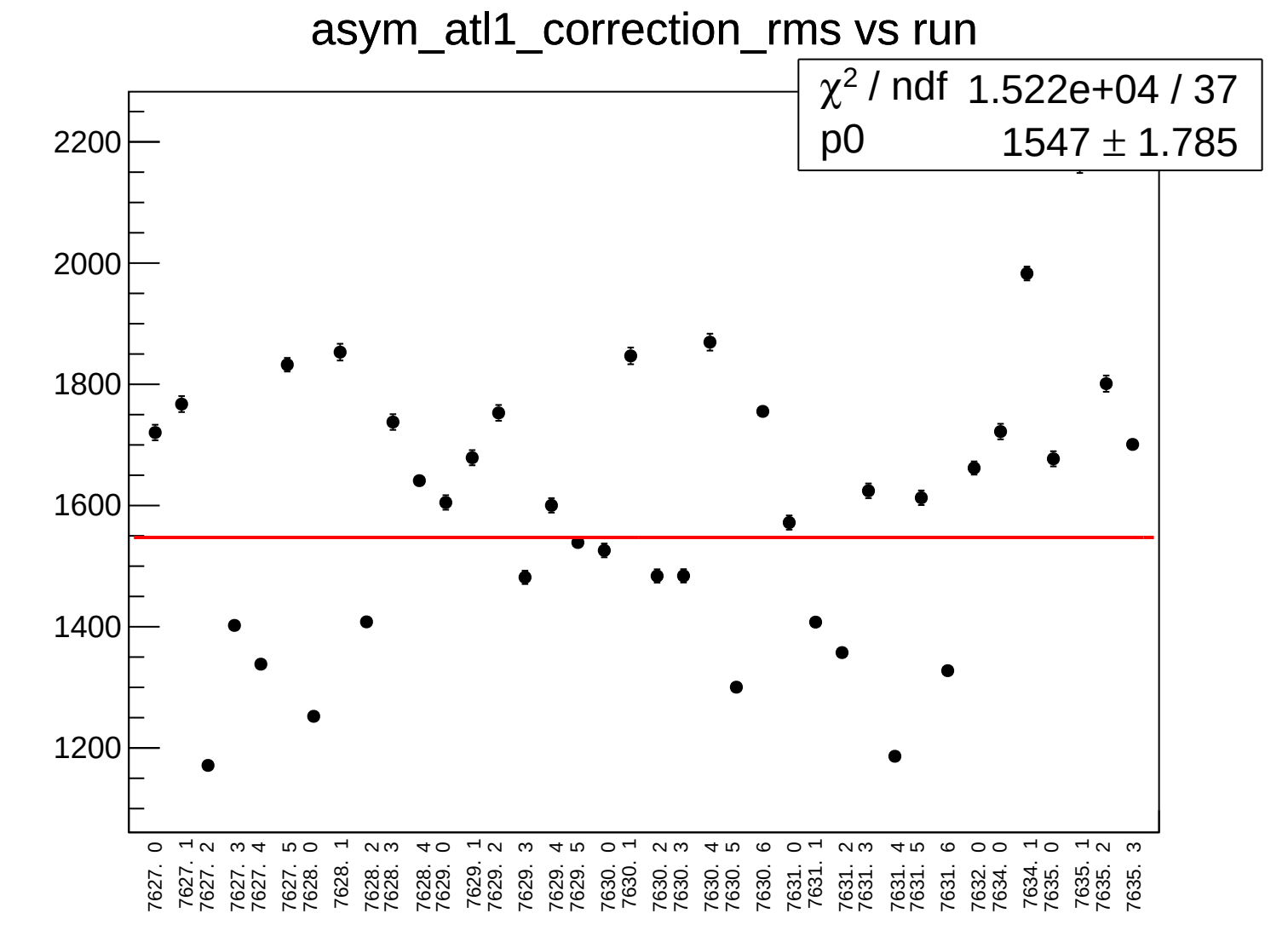

dit_asym_atl1_mean vs run
×10^3
χ^2 / ndf 42.56 / 37
p0 −1936 ± 4272
80
60
40
20
0
−20
−40
−60
−80
−100
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −147.2
Std Dev 164.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

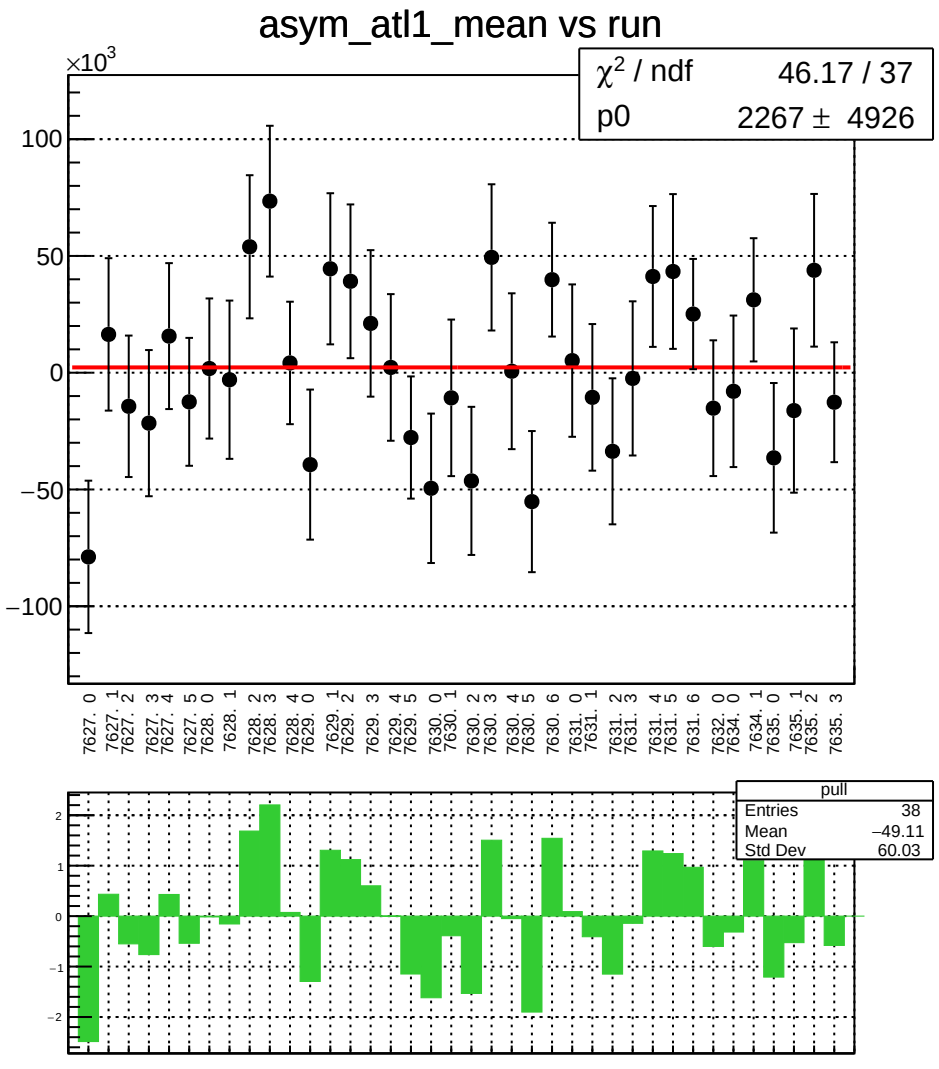

pull1D
Entries 38
Mean −0.01048
Std Dev 1.058
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

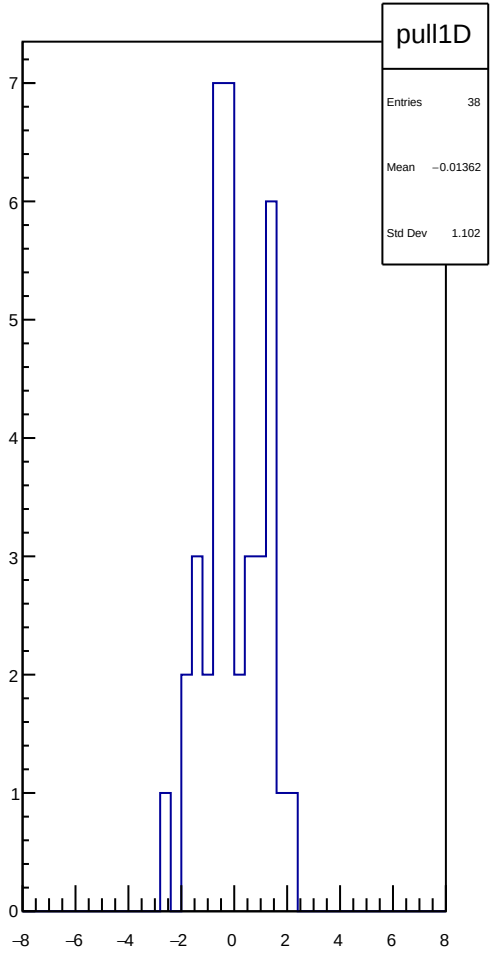

dit_asym_atl1_rms vs run
χ² / ndf 115.4 / 37
p0 2644 ± 3.021
2750
2700
2650
2600
2550
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

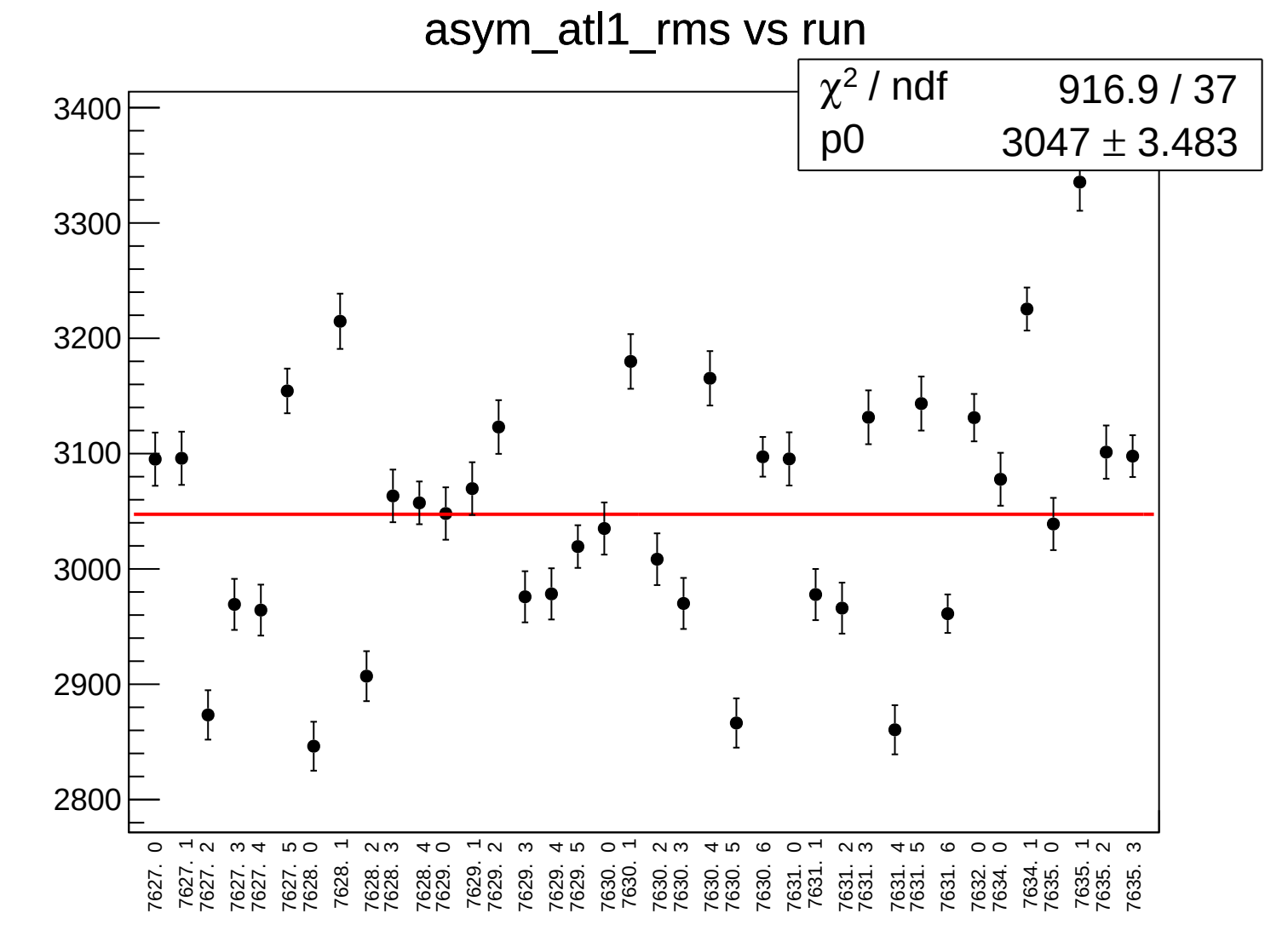

asym_atl1_correction_mean vs run
χ² / ndf 44.79 / 37
p0 −3864 ± 2525
60000
40000
20000
0
−20000
−40000
−60000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −168.2
Std Dev 194.3
2
1
0
−1
−2

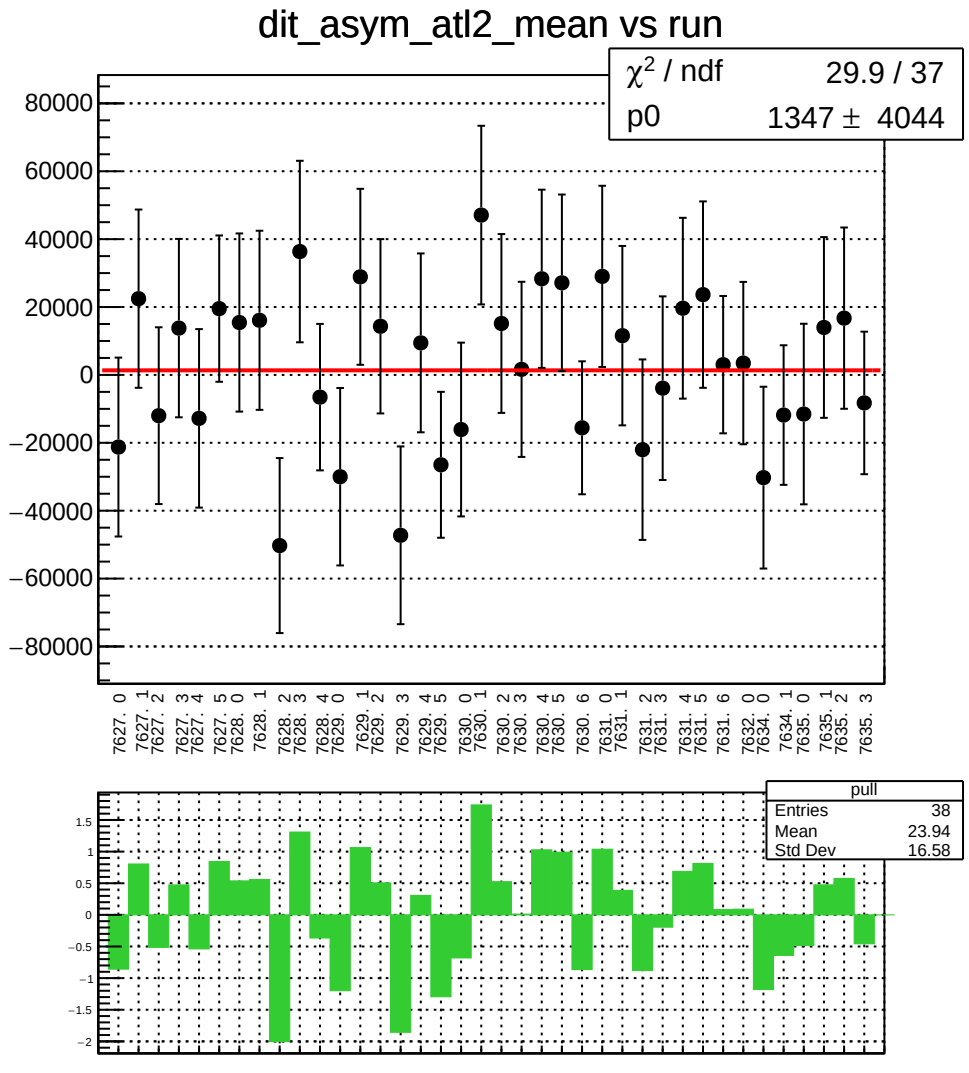

pull1D
Entries 38
Mean −0.005256
Std Dev 1.086
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

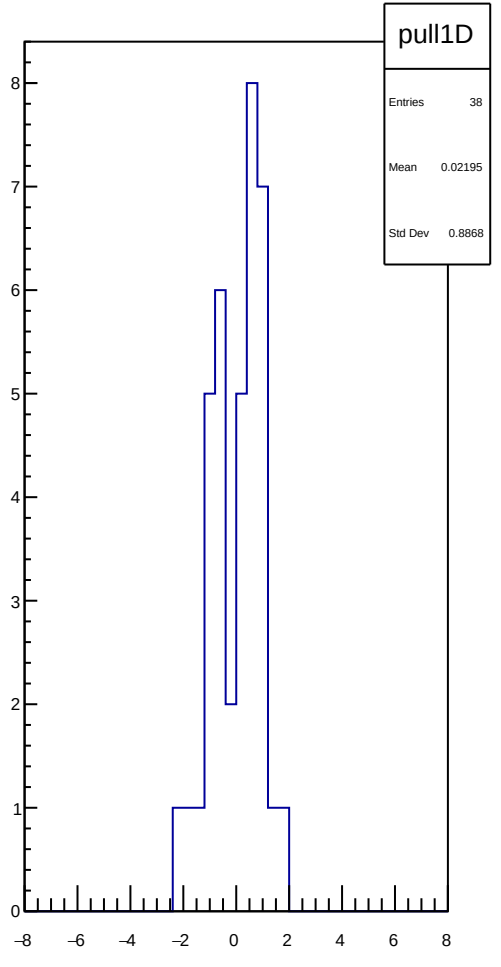

asym_atl1_correction_rms vs run
χ² / ndf 1.522e+04 / 37
p0 1547 ± 1.785
2200
2000
1800
1600
1400
1200
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

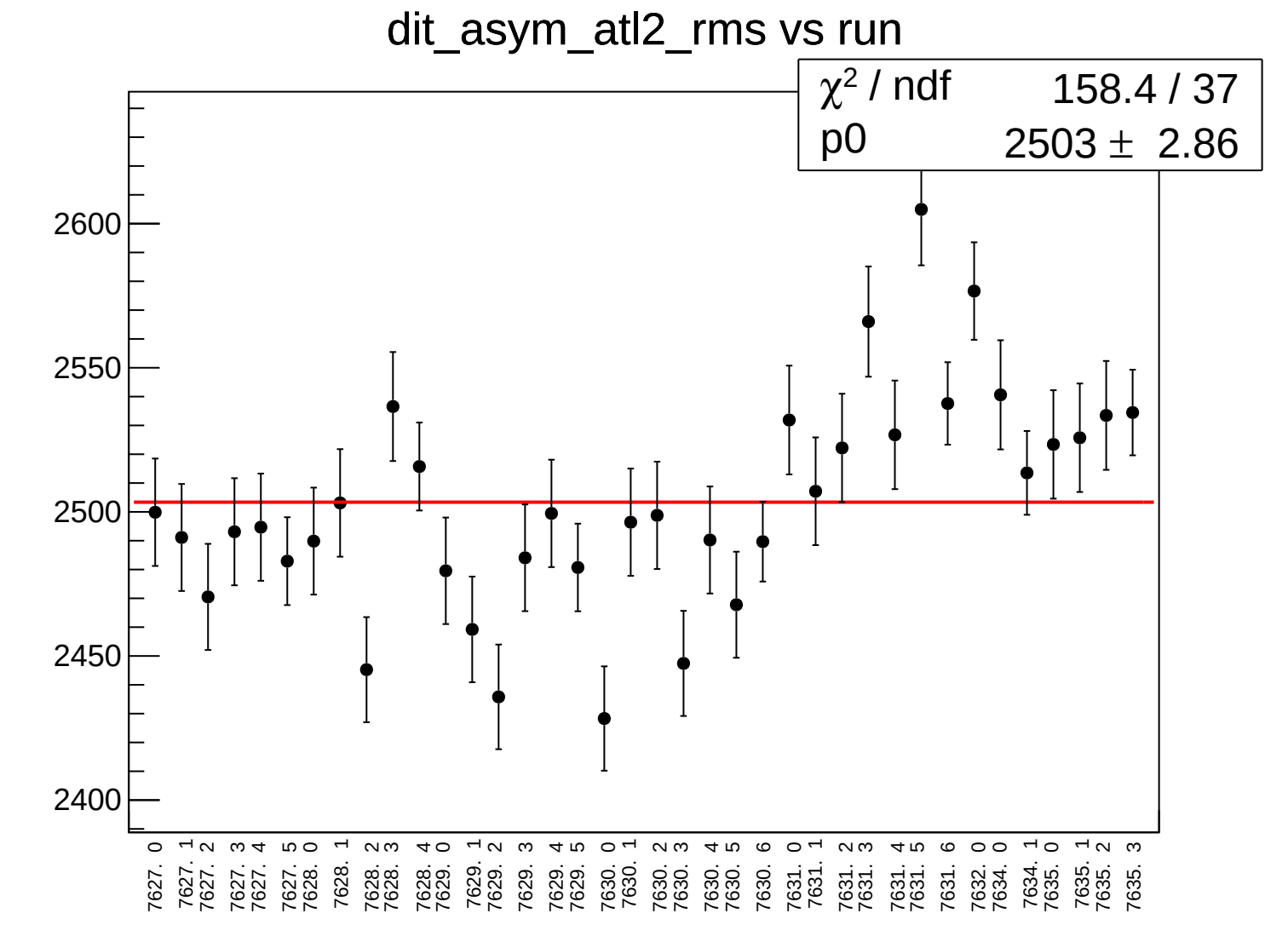

asym_atl1_mean vs run
×10^3
χ² / ndf 46.17 / 37
p0 2267 ± 4926
100
50
0
−50
−100
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −49.11
Std Dev 60.03
2
1
0
−1
−2

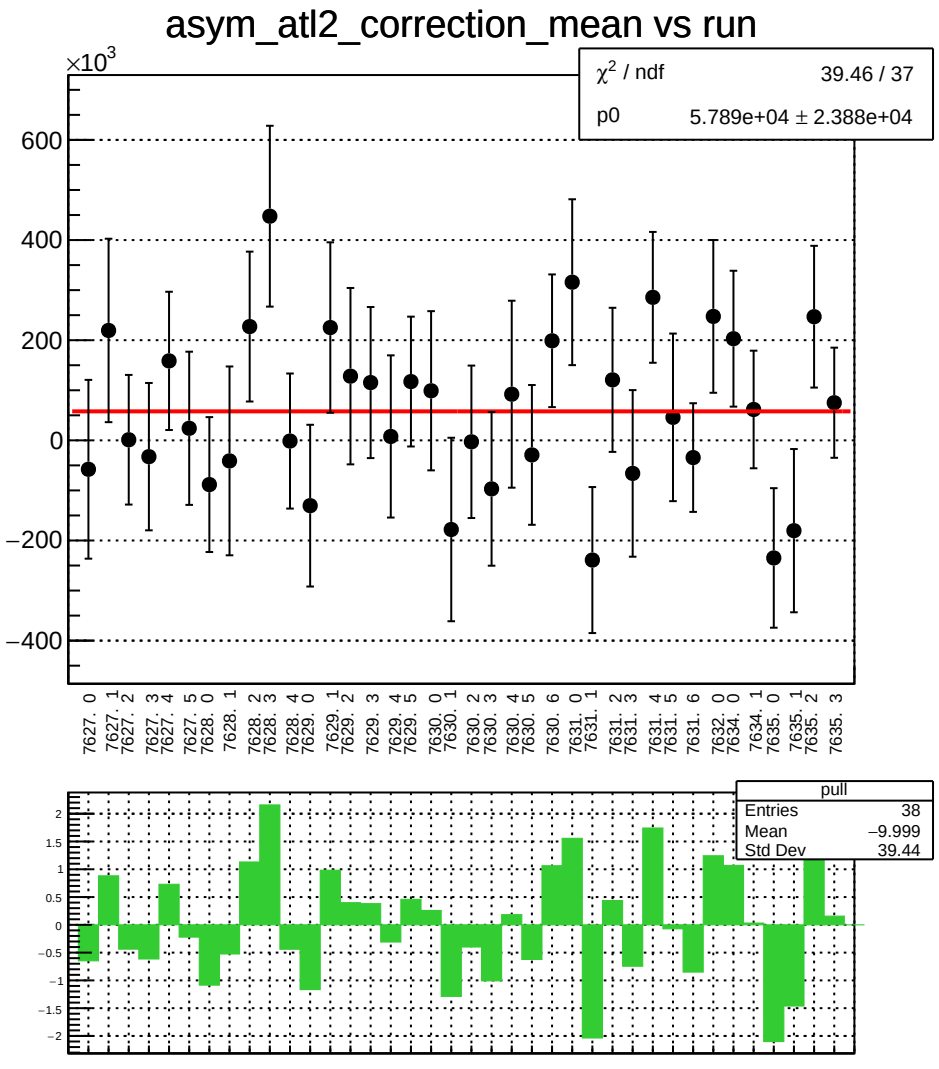

pull1D
Entries 38
Mean −0.01362
Std Dev 1.102
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

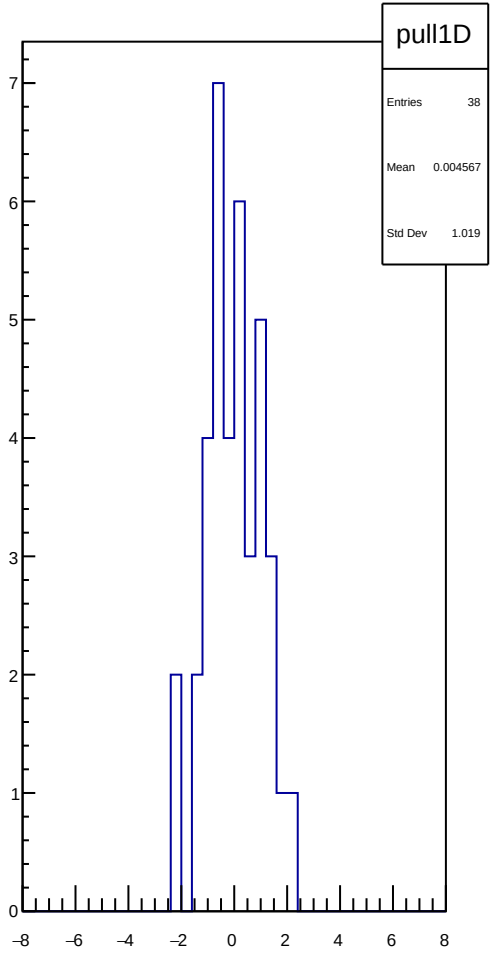

asym_atl1_rms vs run
χ² / ndf 916.9 / 37
p0 3047 ± 3.483
3400
3300
3200
3100
3000
2900
2800
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

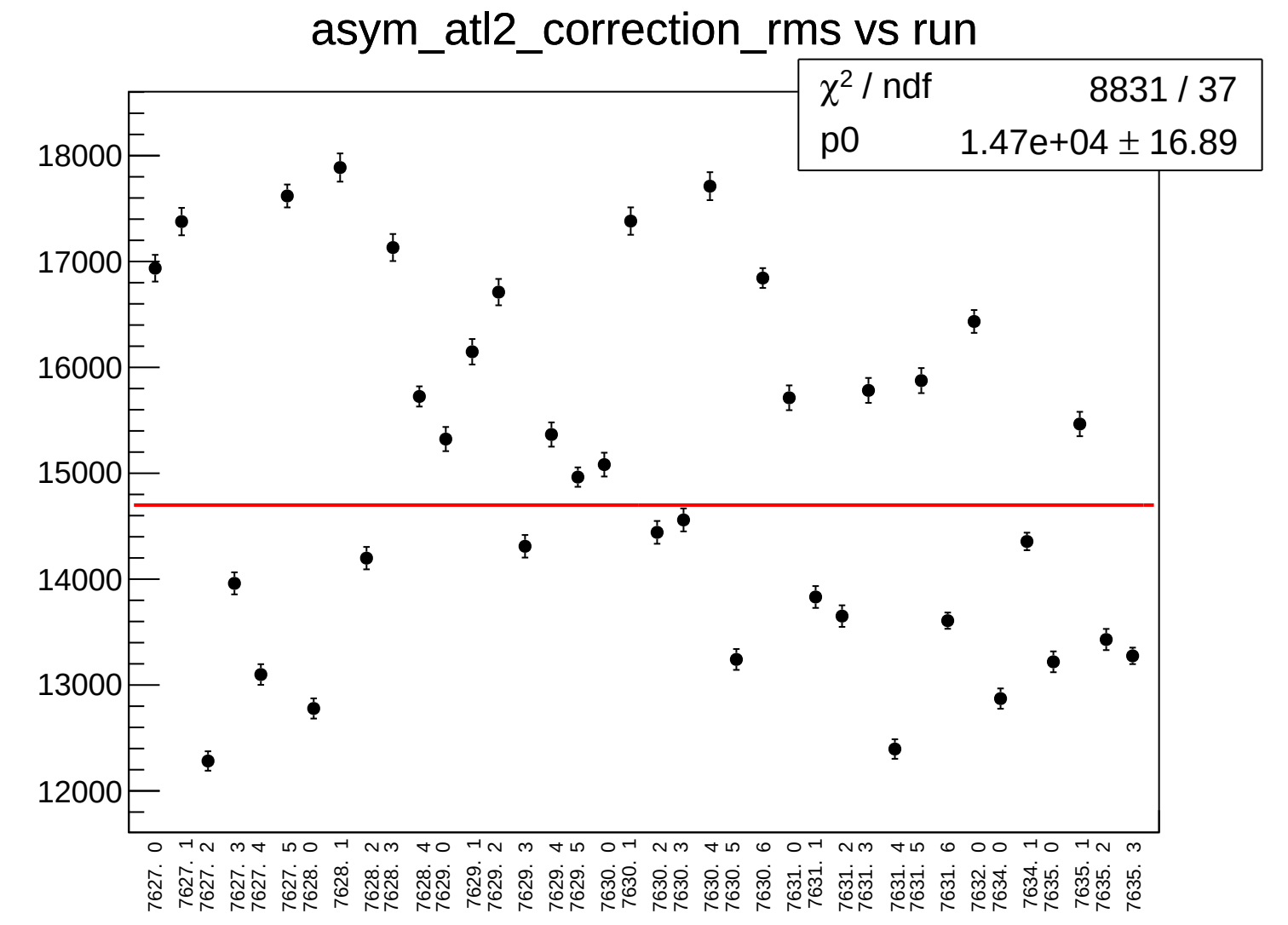

dit_asym_atl2_mean vs run
χ² / ndf 29.9 / 37
p0 1347 ± 4044
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 23.94
Std Dev 16.58
1.5
1
0.5
0
−0.5
−1
−1.5
−2

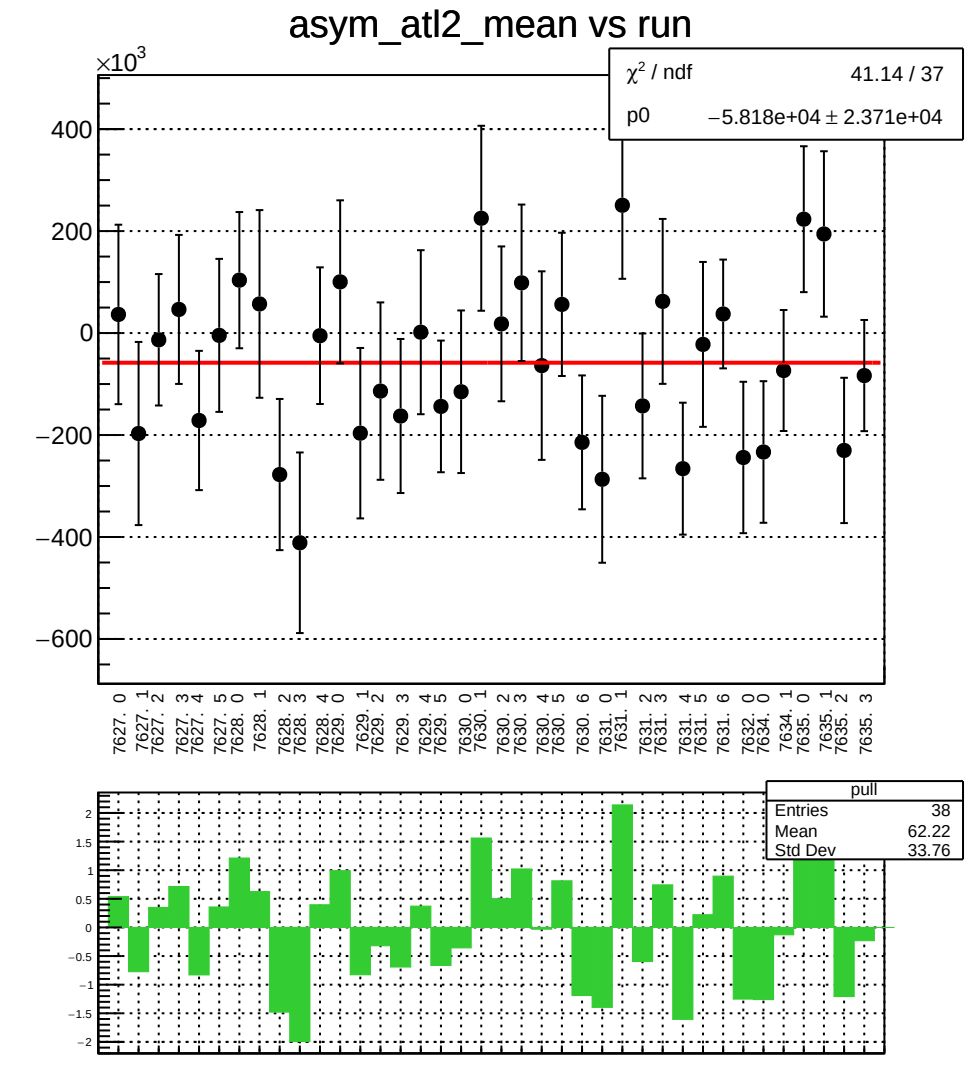

pull1D
Entries 38
Mean 0.02195
Std Dev 0.8868
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

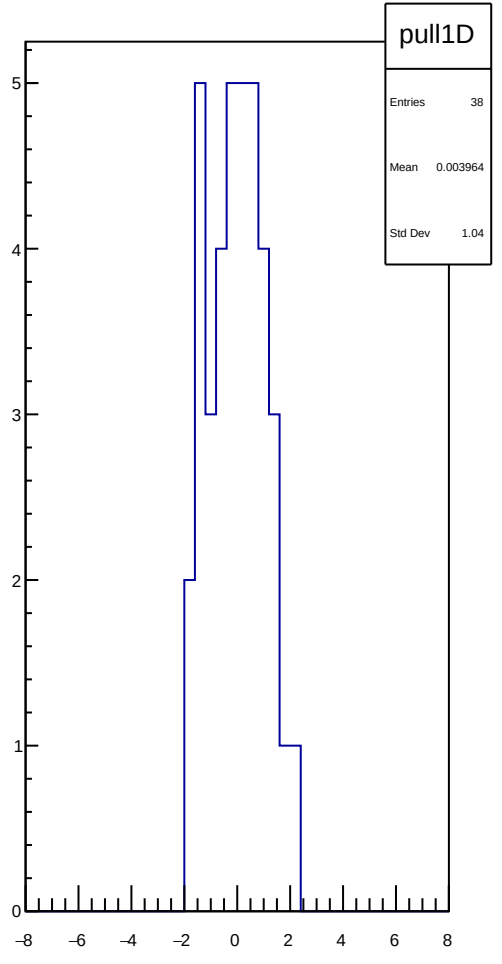

dit_asym_atl2_rms vs run
χ² / ndf 158.4 / 37
p0 2503 ± 2.86
2600
2550
2500
2450
2400
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

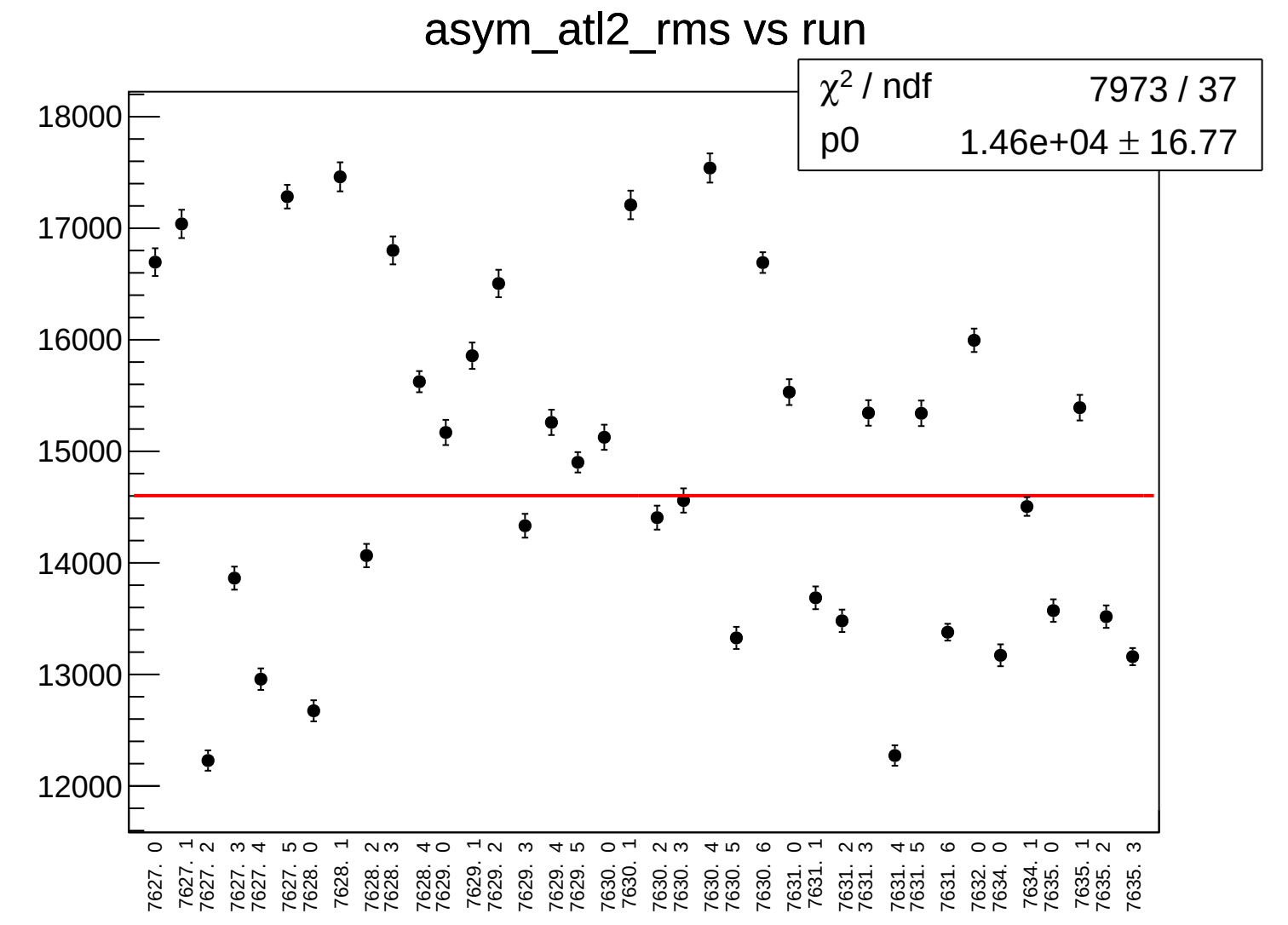

asym_atl2_correction_mean vs run
×10^3
χ² / ndf 39.46 / 37
p0 5.789e+04 ± 2.388e+04
600
400
200
0
−200
−400
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −9.999
Std Dev 39.44
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

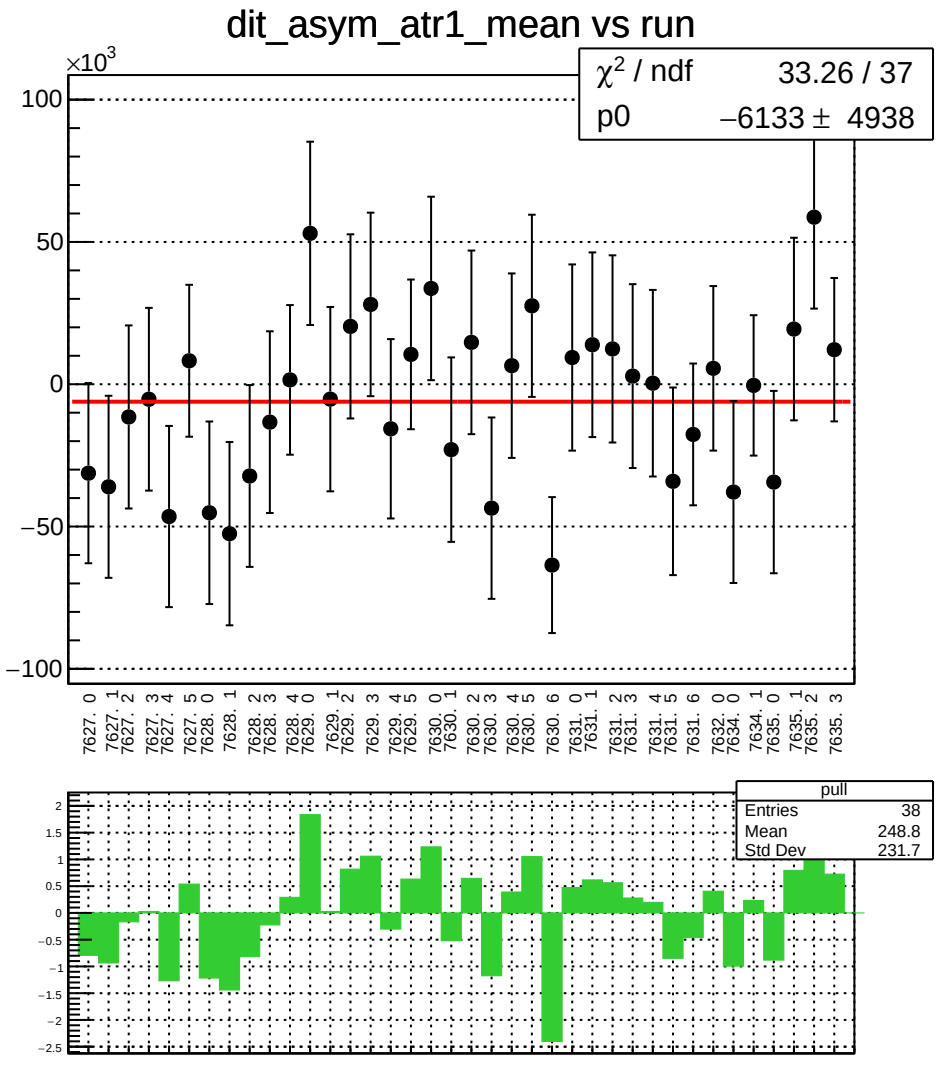

pull1D
Entries 38
Mean 0.004567
Std Dev 1.019
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

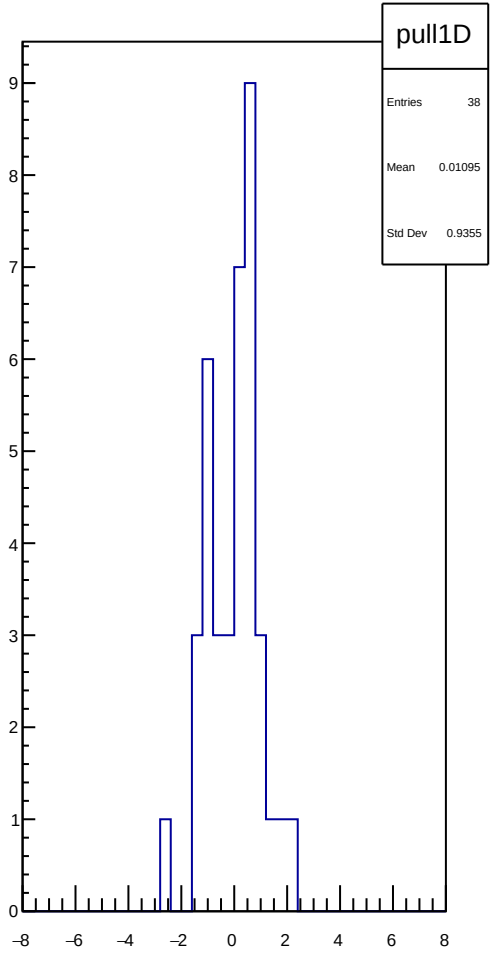

asym_atl2_correction_rms vs run
χ^2 / ndf 8831 / 37
p0 1.47e+04 ± 16.89
18000
17000
16000
15000
14000
13000
12000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

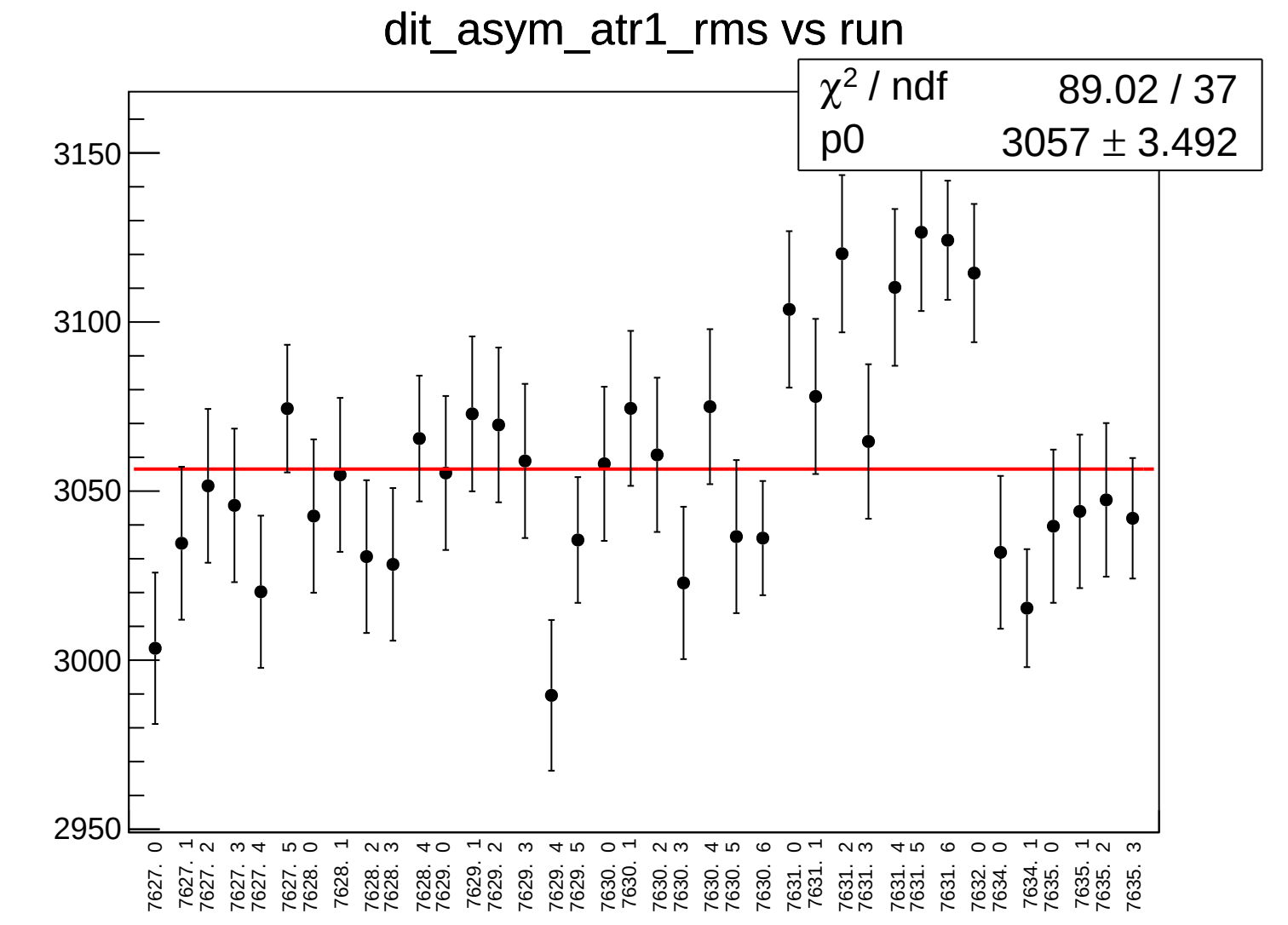

asym_atl2_mean vs run
×10^3
χ² / ndf 41.14 / 37
p0 −5.818e+04 ± 2.371e+04
400
200
0
−200
−400
−600
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 62.22
Std Dev 33.76
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

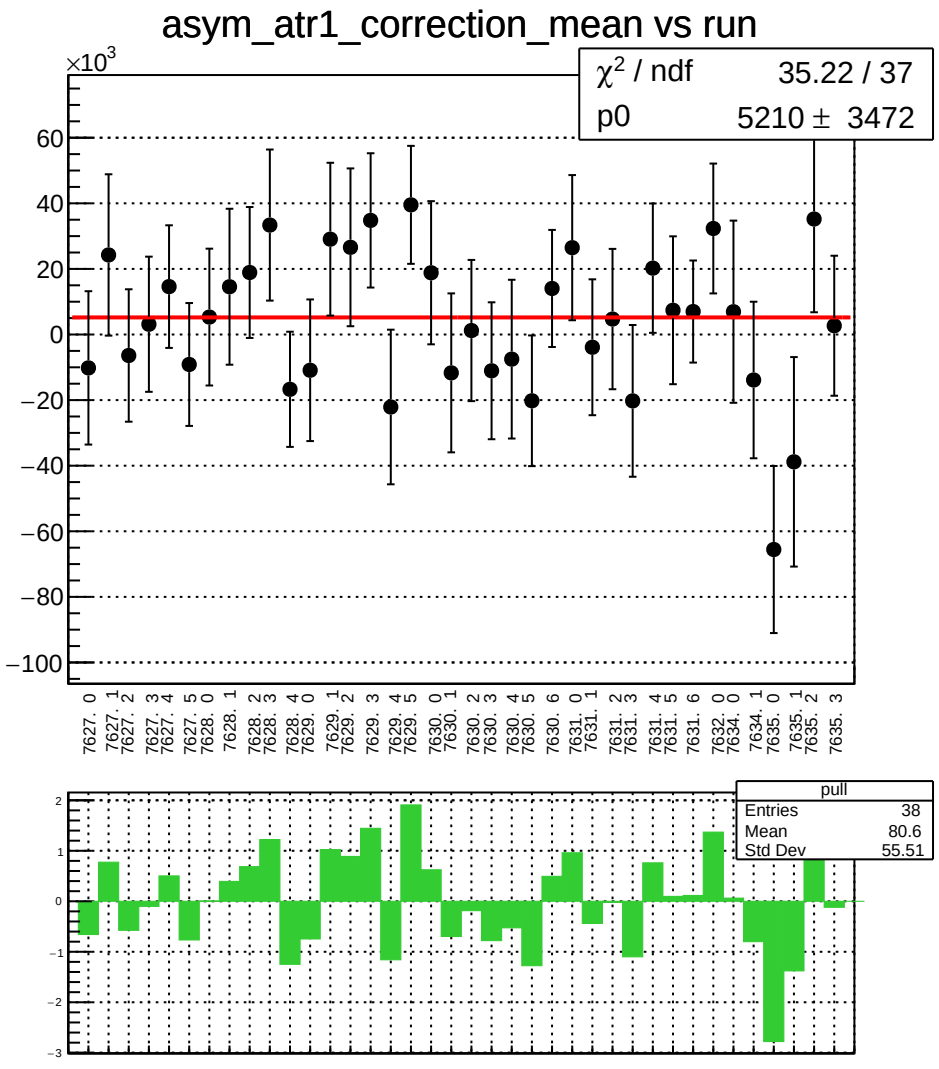

pull1D
Entries 38
Mean 0.003964
Std Dev 1.04
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

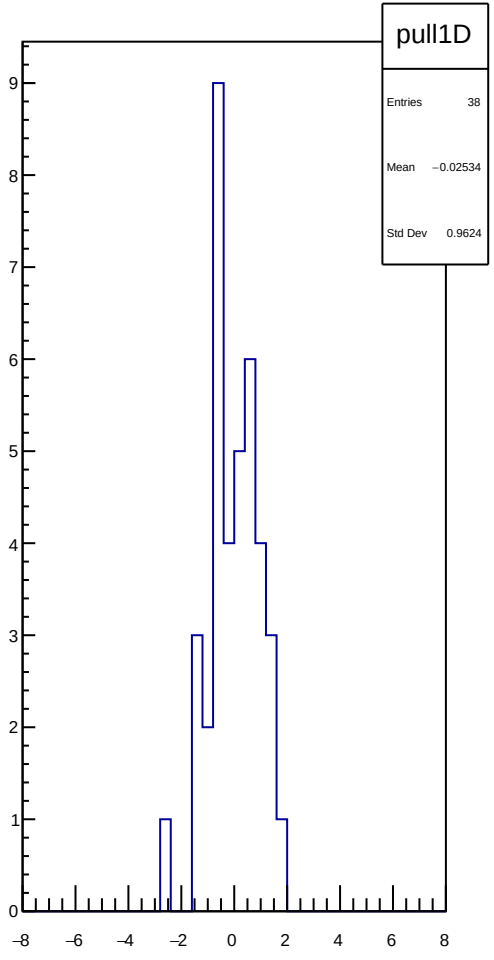

asym_atl2_rms vs run
χ² / ndf 7973 / 37
p0 1.46e+04 ± 16.77
18000
17000
16000
15000
14000
13000
12000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

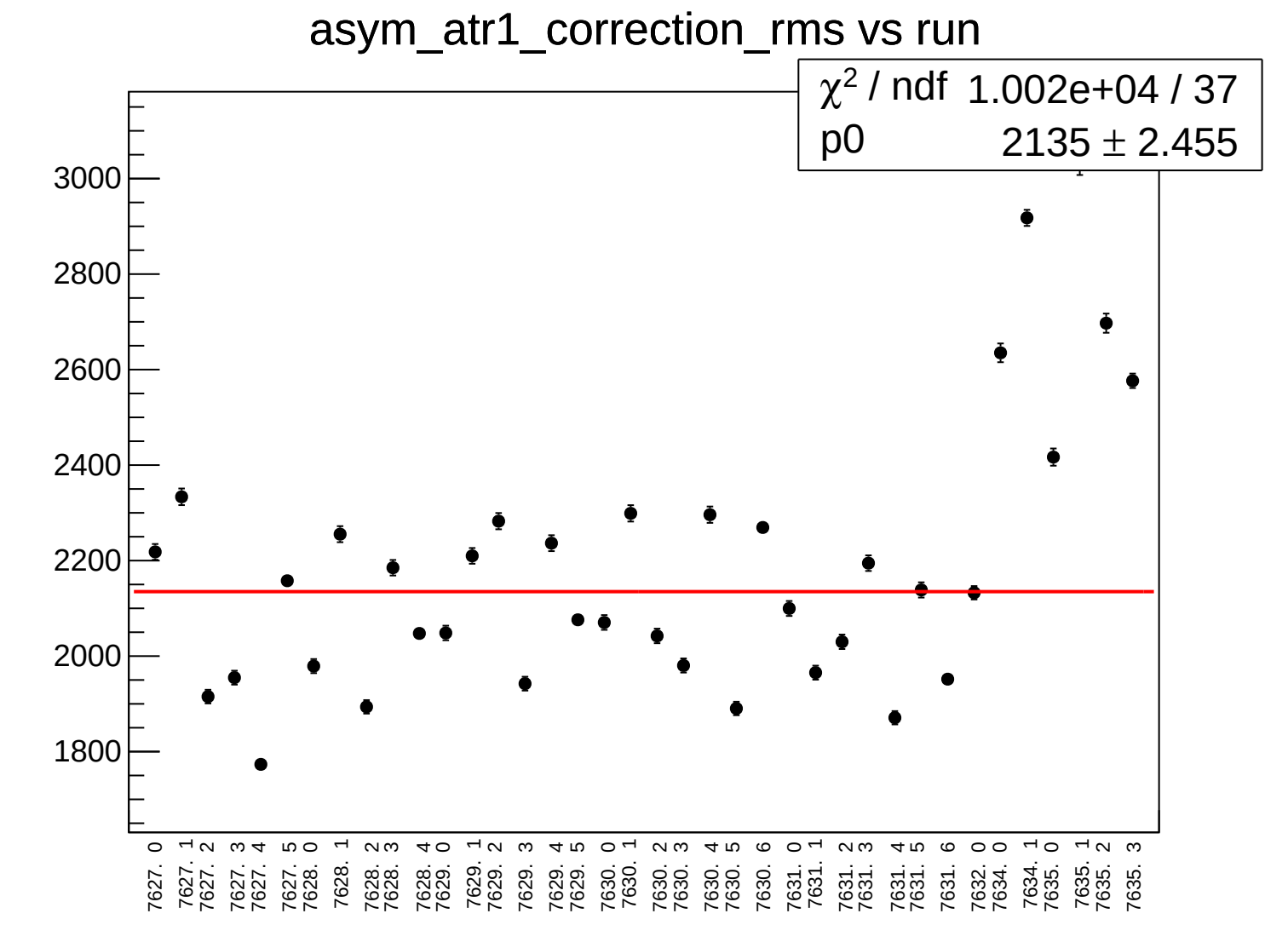

dit_asym_atr1_mean vs run
×10^3
χ² / ndf 33.26 / 37
p0 −6133 ± 4938
100
50
0
−50
−100
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 248.8
Std Dev 231.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

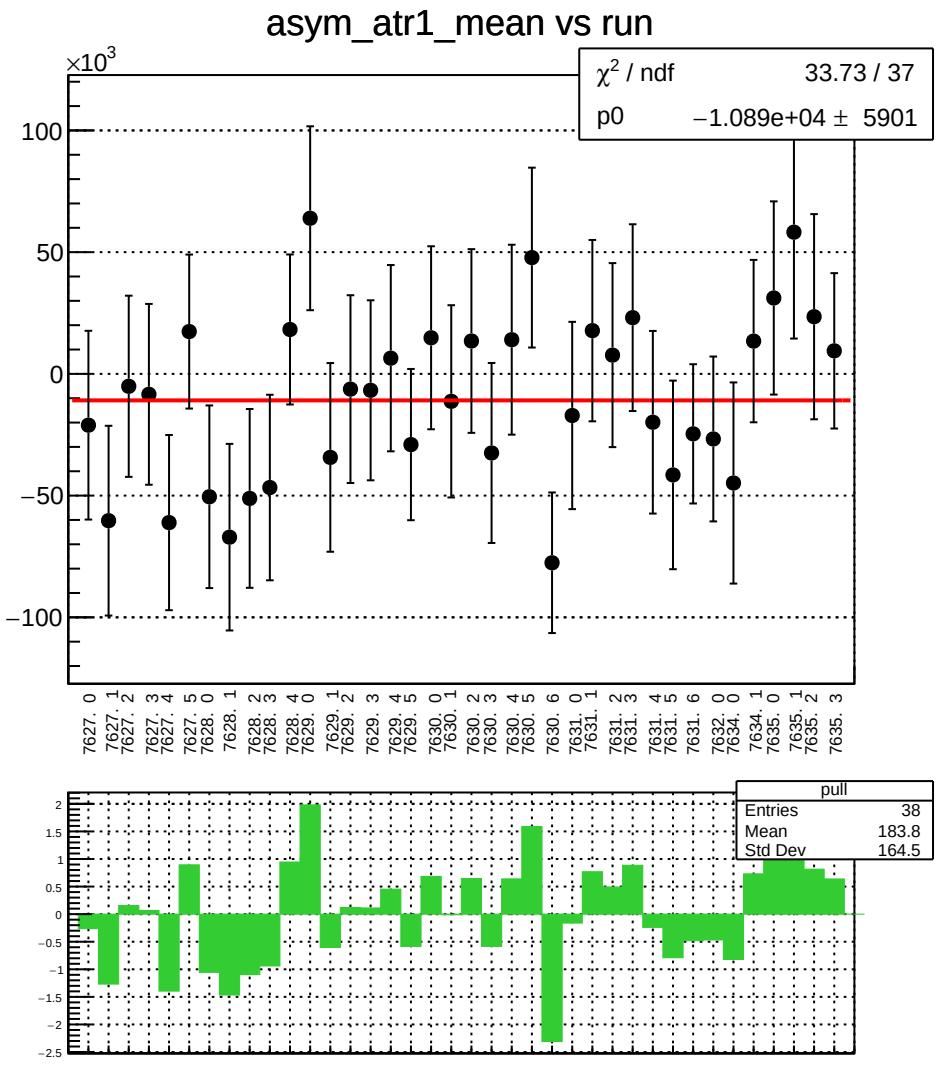

pull1D
Entries 38
Mean 0.01095
Std Dev 0.9355
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

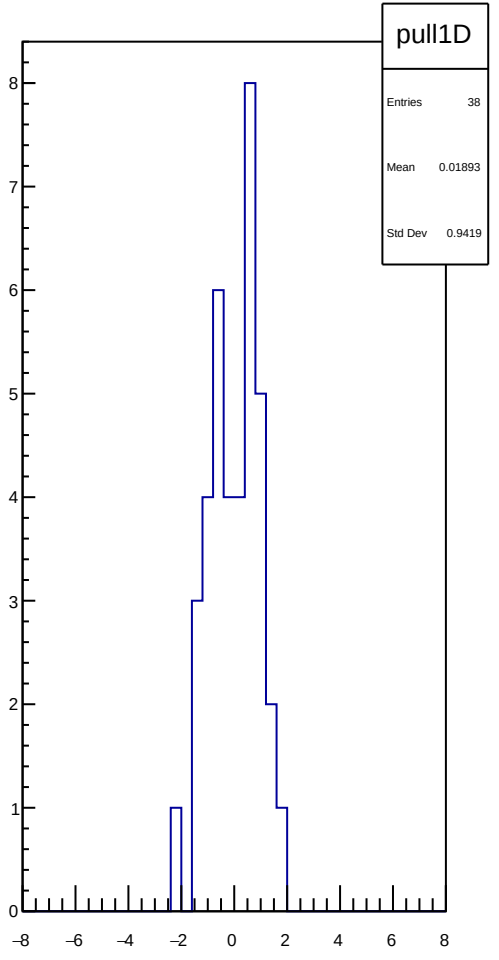

dit_asym_atr1_rms vs run
χ² / ndf 89.02 / 37
p0 3057 ± 3.492
3150
3100
3050
3000
2950
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

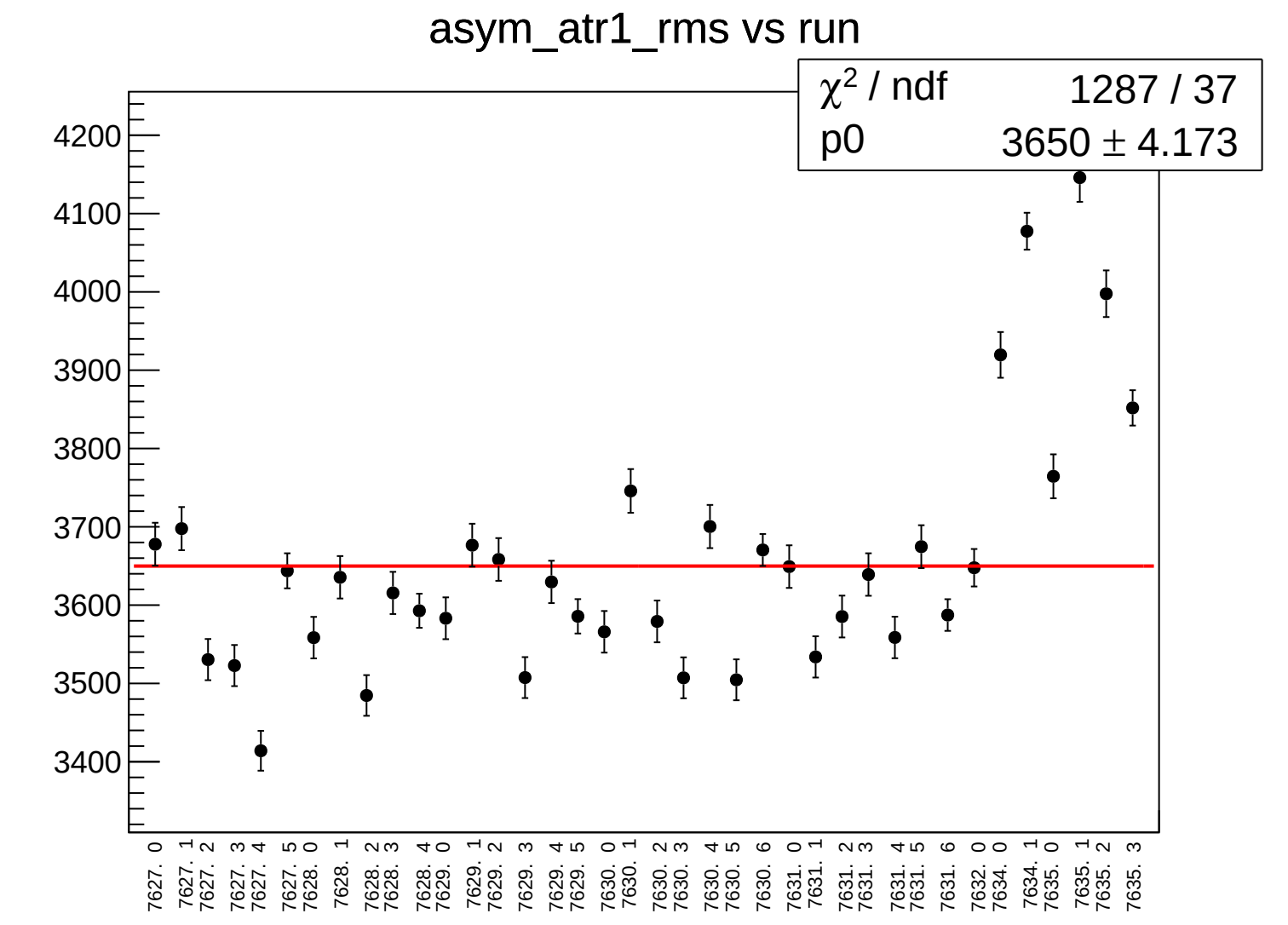

asym_atr1_correction_mean vs run
×10^3
χ² / ndf 35.22 / 37
p0 5210 ± 3472
pull
Entries 38
Mean 80.6
Std Dev 55.51

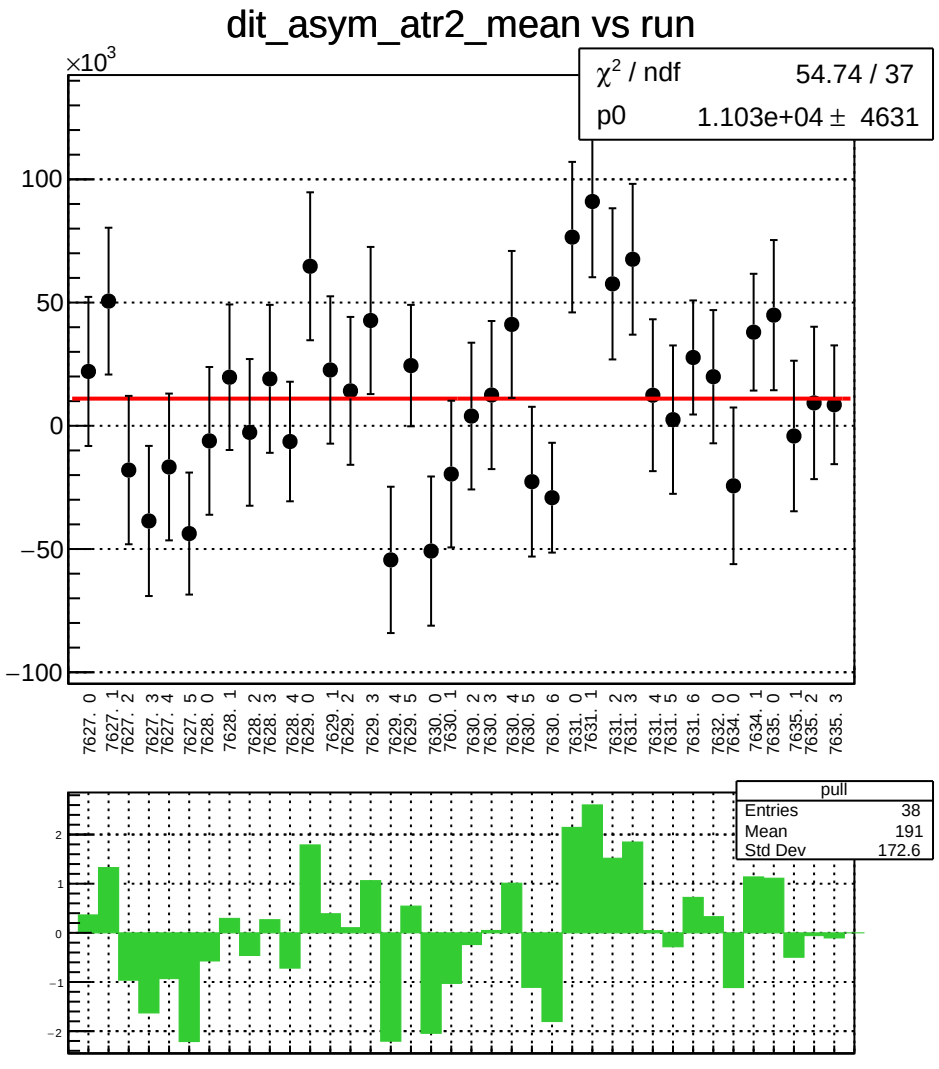

pull1D
Entries 38
Mean −0.02534
Std Dev 0.9624

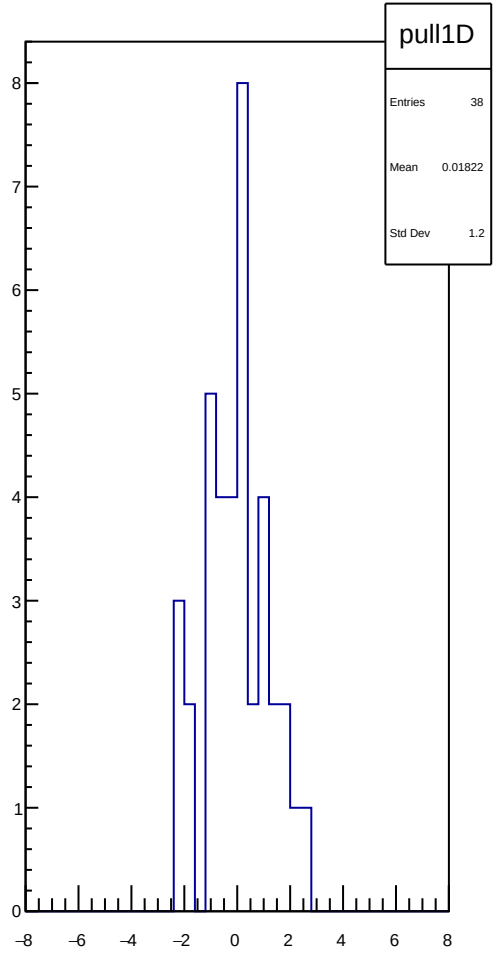

asym_atr1_correction_rms vs run
χ² / ndf 1.002e+04 / 37
p0 2135 ± 2.455
3000
2800
2600
2400
2200
2000
1800
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

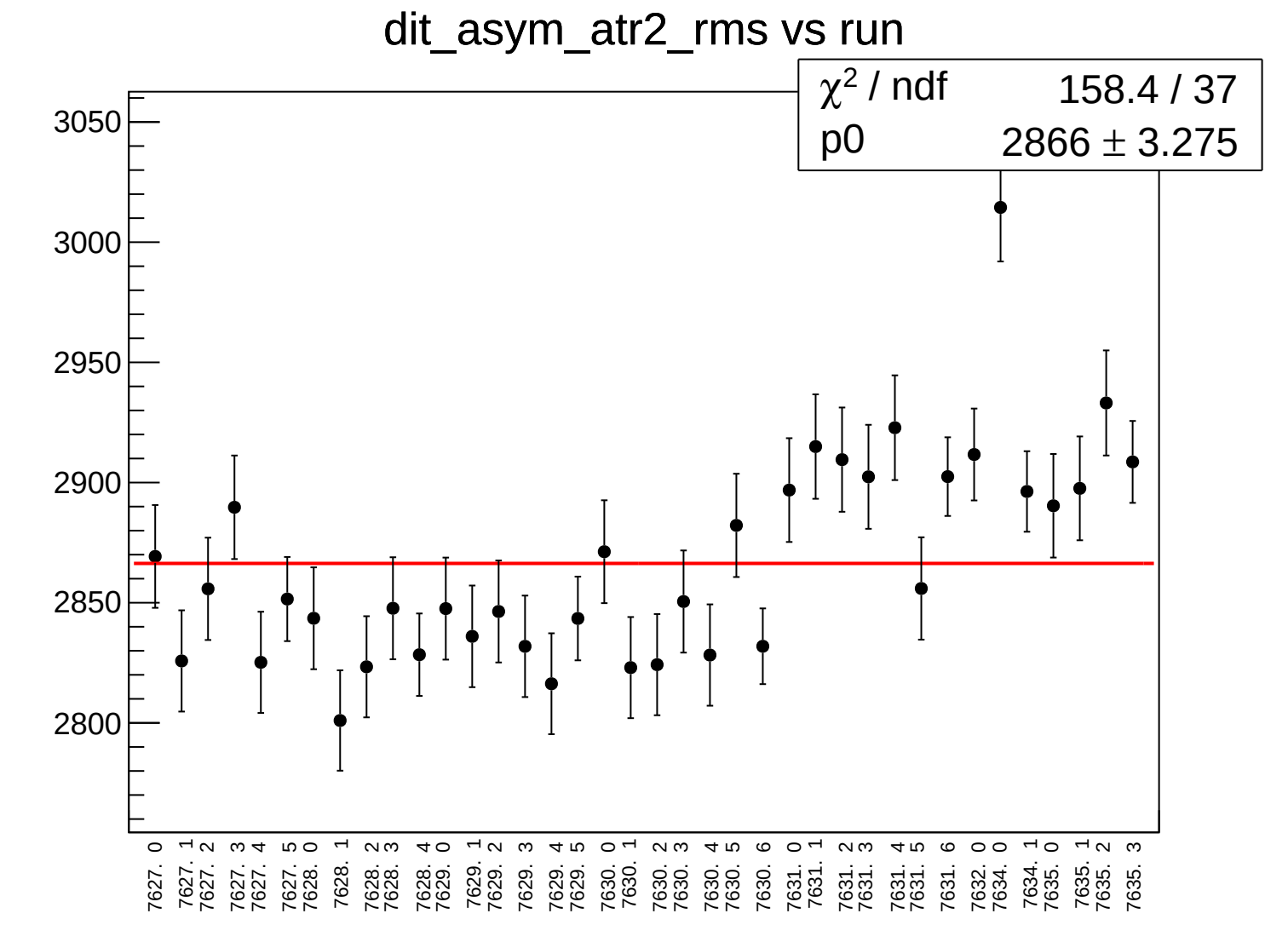

asym_atr1_mean vs run
×10^3
χ² / ndf 33.73 / 37
p0 −1.089e+04 ± 5901
100
50
0
−50
−100
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 4
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 183.8
Std Dev 164.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

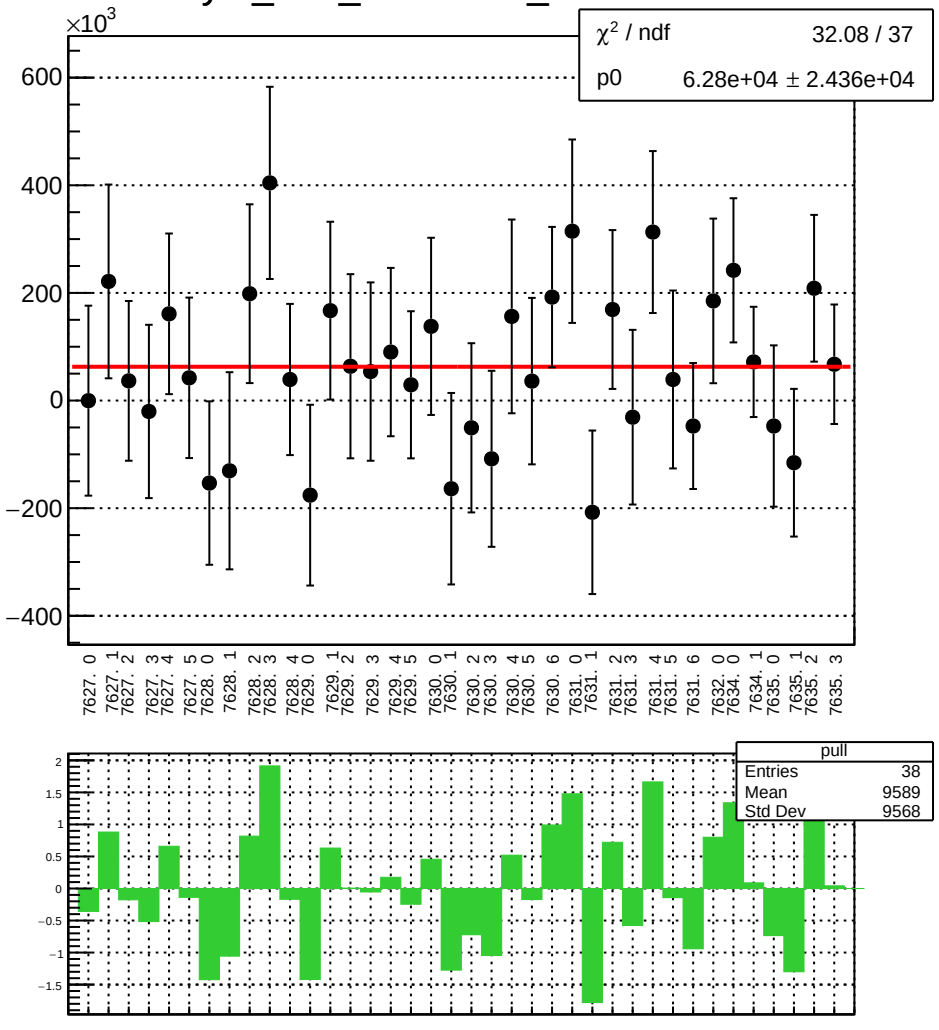

pull1D
Entries 38
Mean 0.01893
Std Dev 0.9419
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

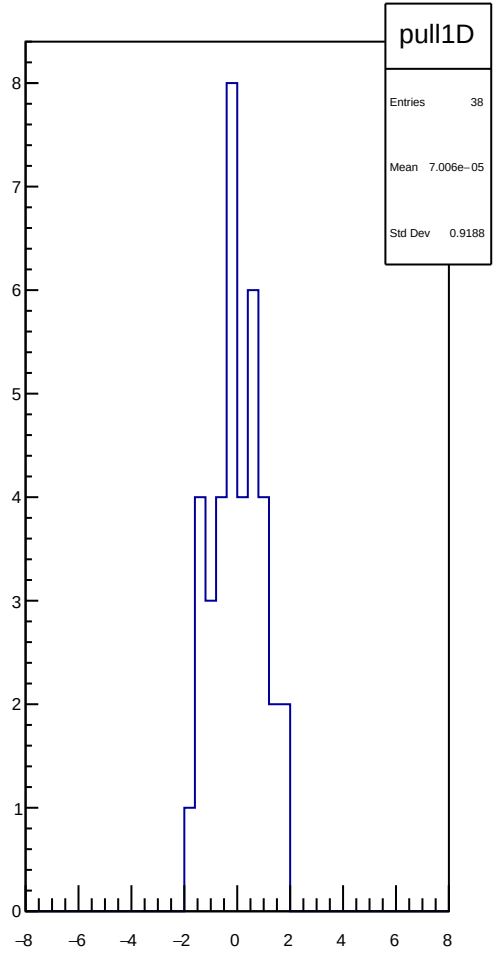

asym_atr1_rms vs run
χ² / ndf 1287 / 37
p0 3650 ± 4.173
4200
4100
4000
3900
3800
3700
3600
3500
3400
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

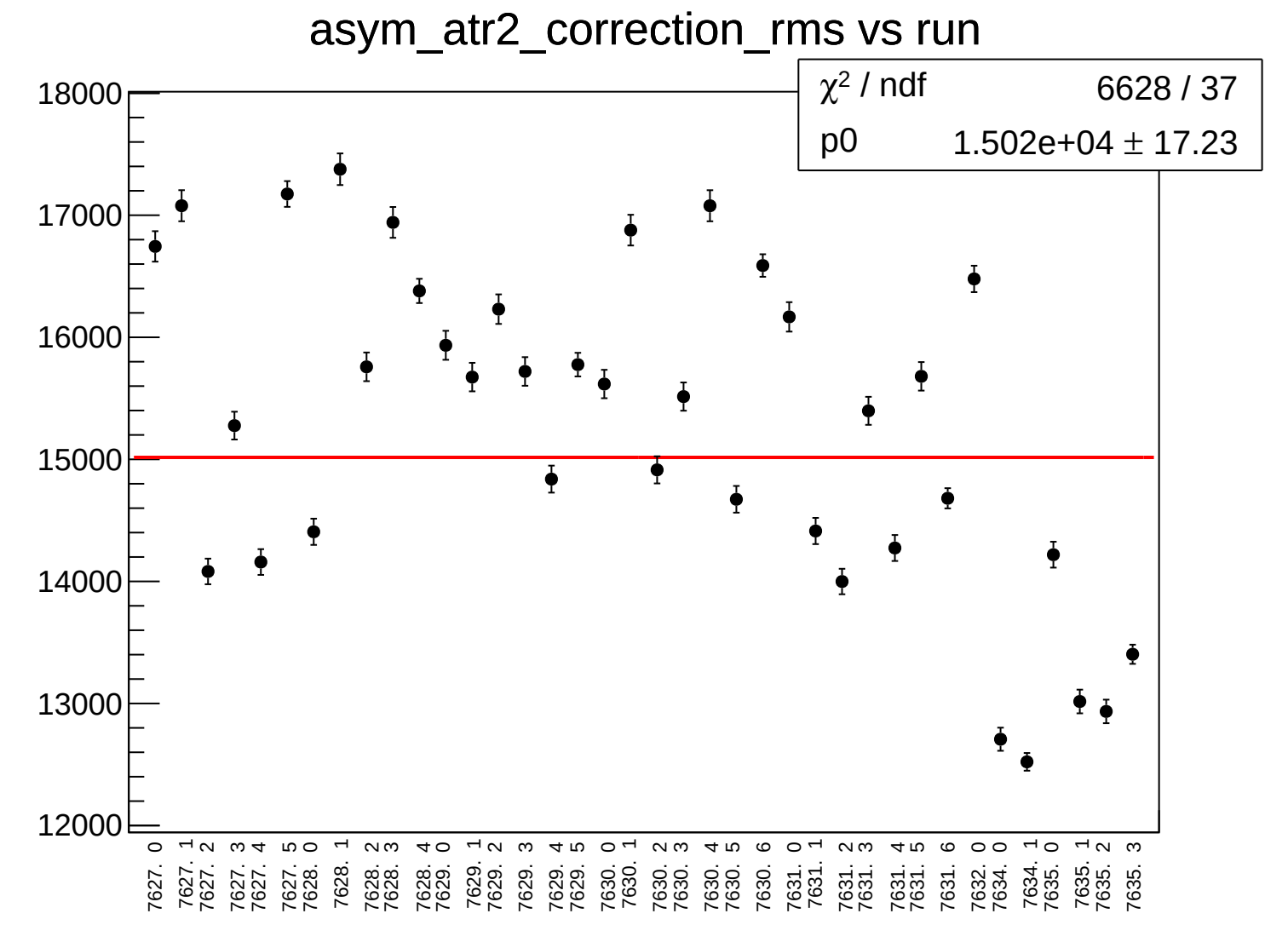

dit_asym_atr2_mean vs run
×10^3
χ² / ndf 54.74 / 37
p0 1.103e+04 ± 4631
100
50
0
−50
−100
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 191
Std Dev 172.6
2
1
0
−1
−2

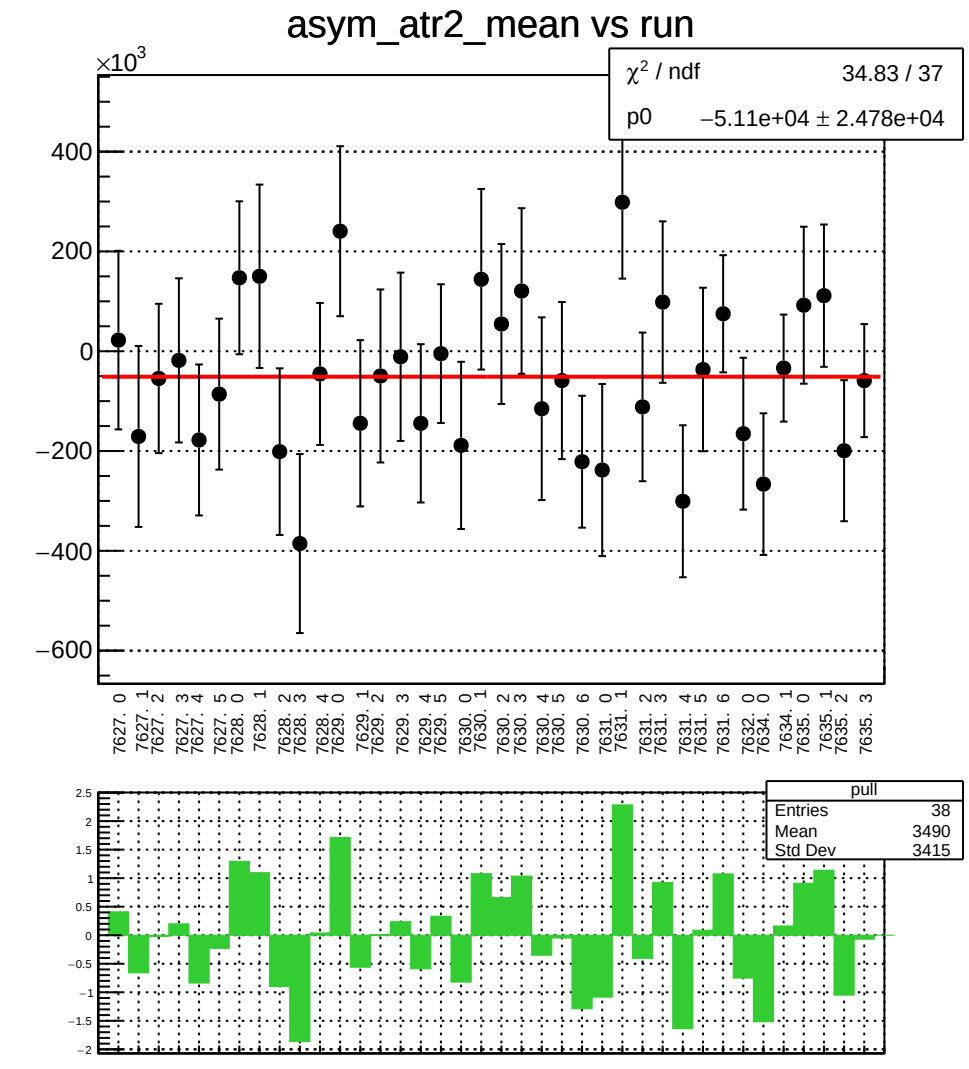

pull1D
Entries 38
Mean 0.01822
Std Dev 1.2
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

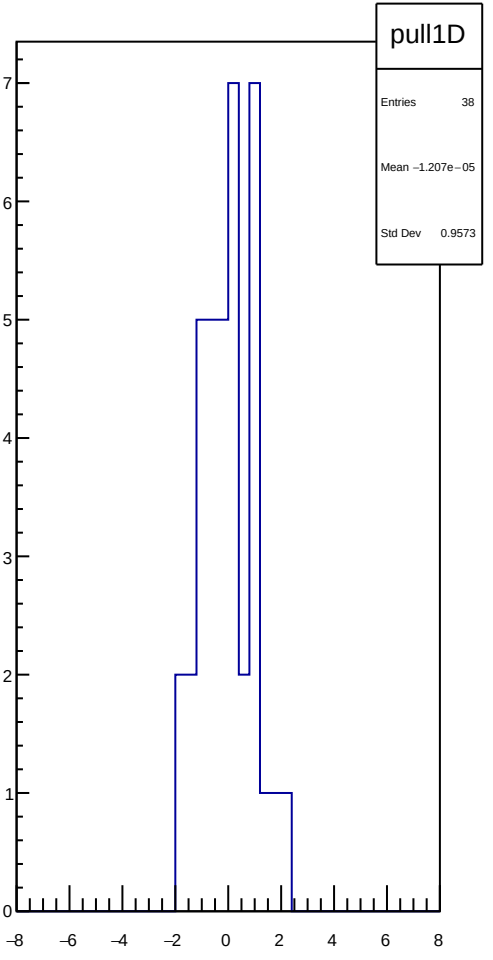

dit_asym_atr2_rms vs run
χ^2 / ndf 158.4 / 37
p0 2866 ± 3.275
3050
3000
2950
2900
2850
2800
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

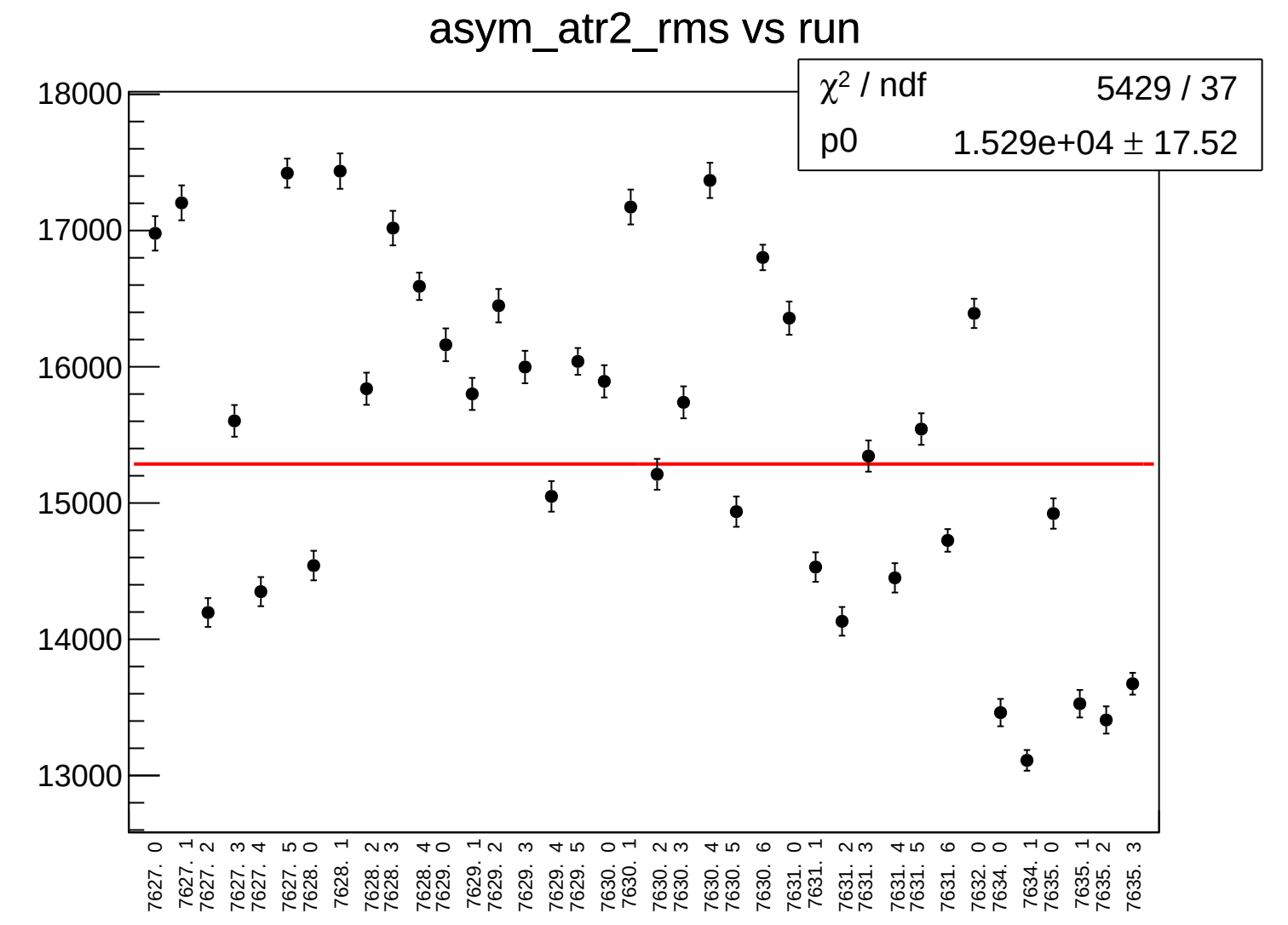

asym_atr2_correction_mean vs run
×10^3
χ² / ndf 32.08 / 37
p0 6.28e+04 ± 2.436e+04
600
400
200
0
−200
−400
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 9589
Std Dev 9568
2
1.5
1
0.5
0
−0.5
−1
−1.5

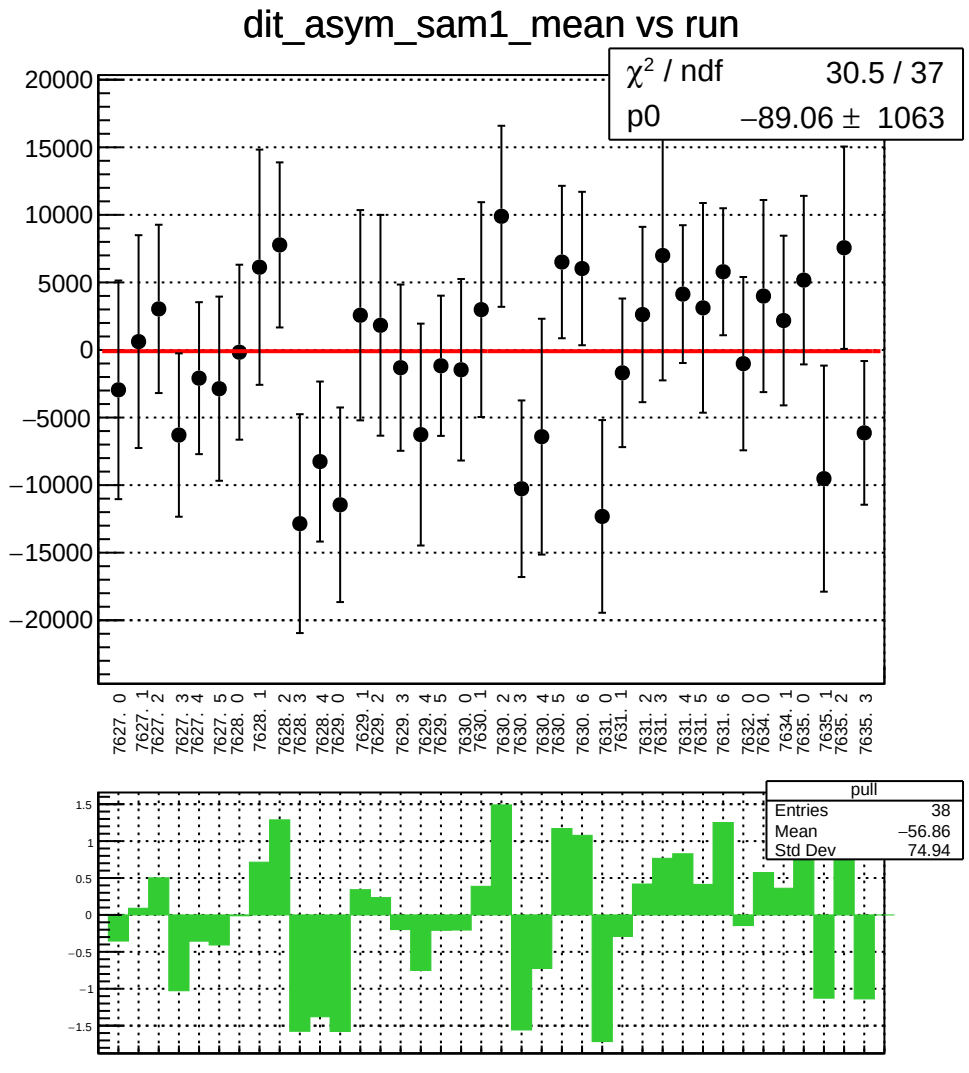

pull1D
Entries 38
Mean 7.006e−05
Std Dev 0.9188
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

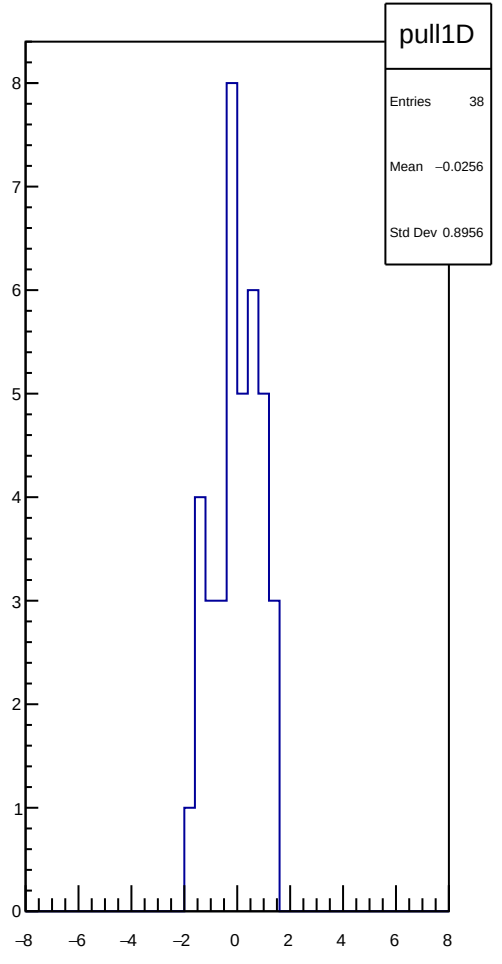

asym_atr2_correction_rms vs run
χ² / ndf 6628 / 37
p0 1.502e+04 ± 17.23
18000
17000
16000
15000
14000
13000
12000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

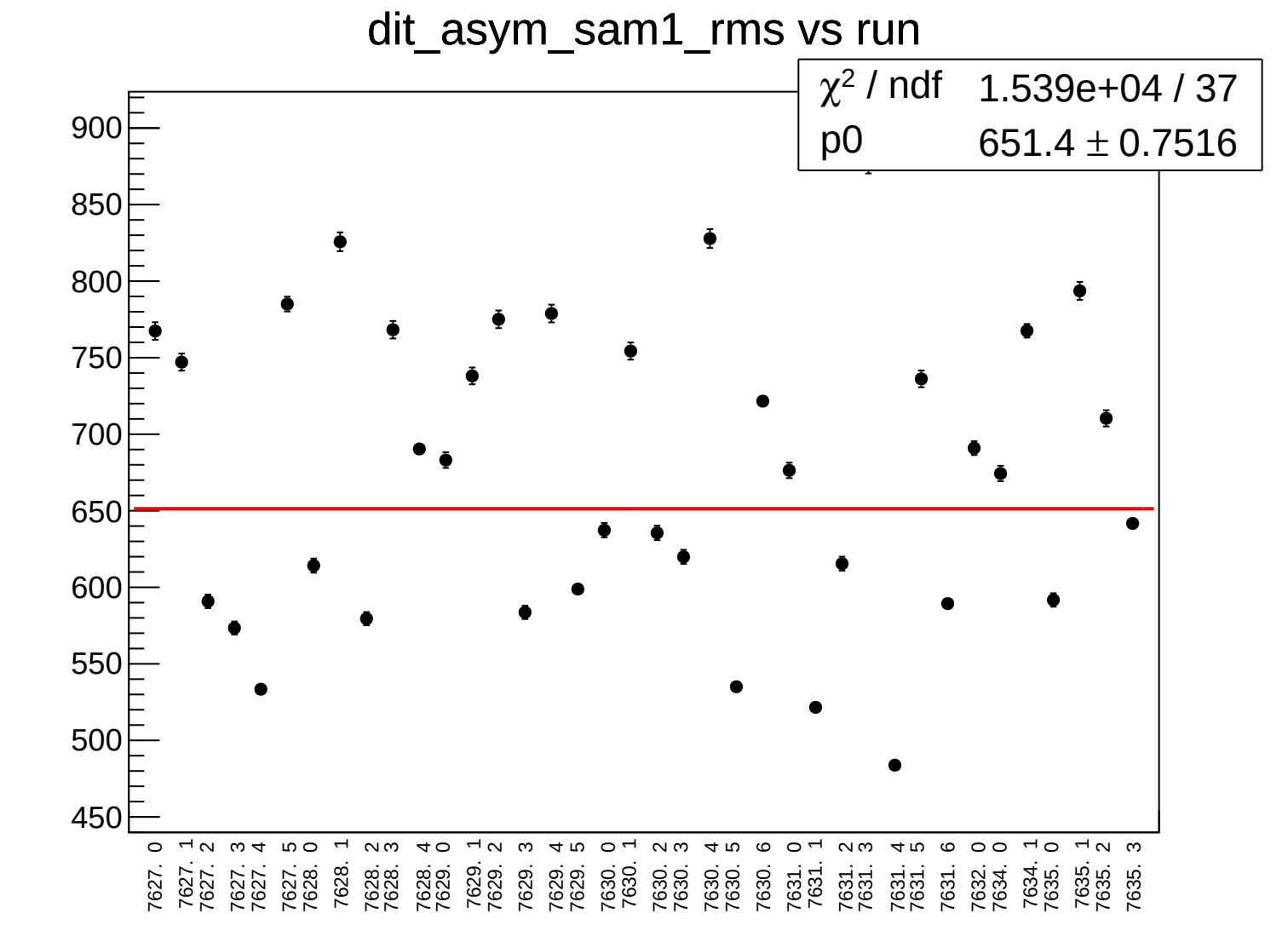

asym_atr2_mean vs run
×10^3
χ² / ndf 34.83 / 37
p0 −5.11e+04 ± 2.478e+04
400
200
0
−200
−400
−600
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 4
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 3490
Std Dev 3415
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

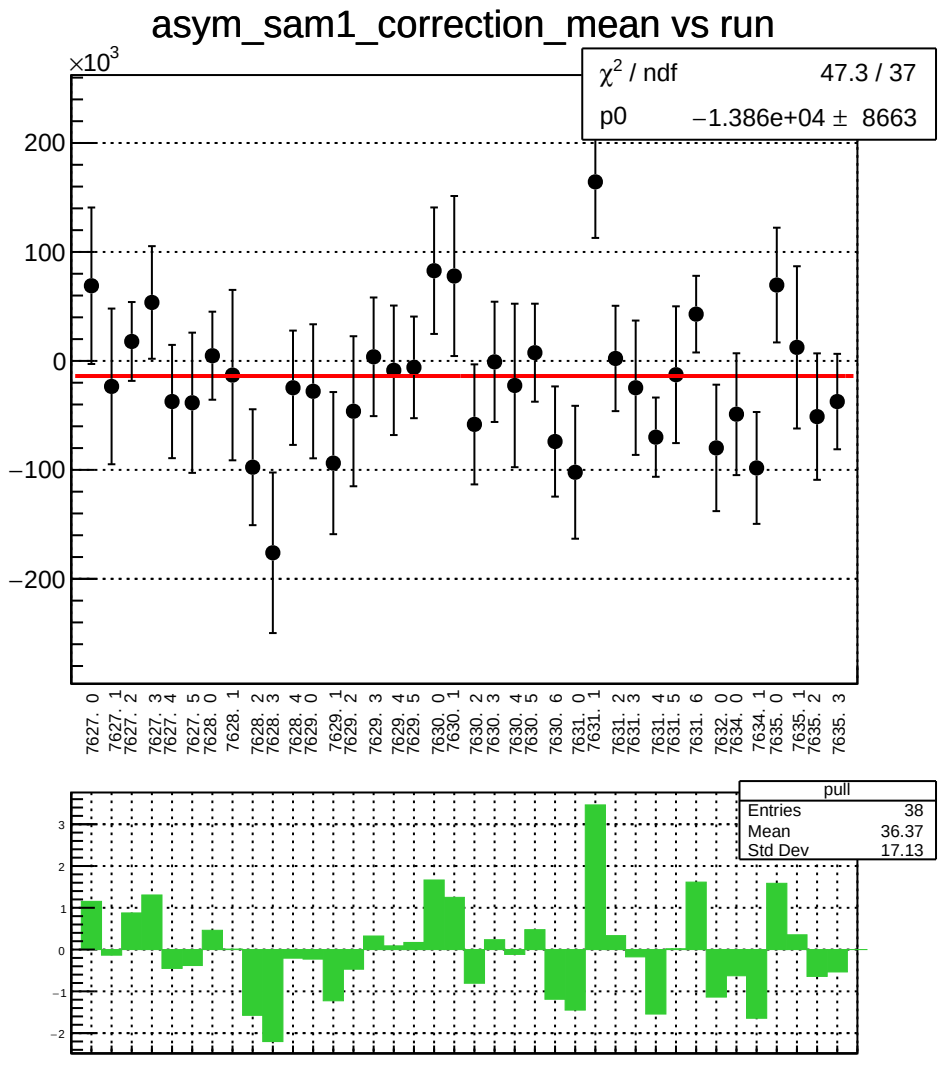

pull1D
Entries 38
Mean −1.207e−05
Std Dev 0.9573
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

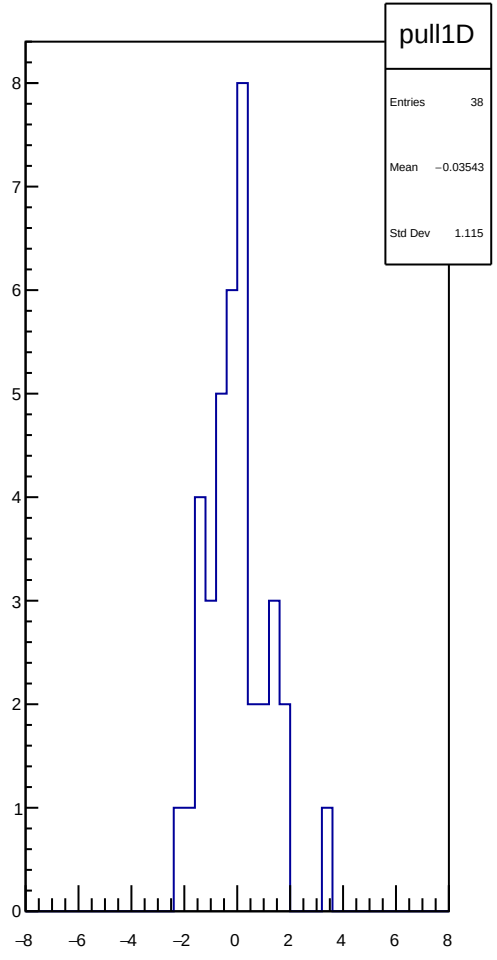

asym_atr2_rms vs run
χ² / ndf 5429 / 37
p0 1.529e+04 ± 17.52
18000
17000
16000
15000
14000
13000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

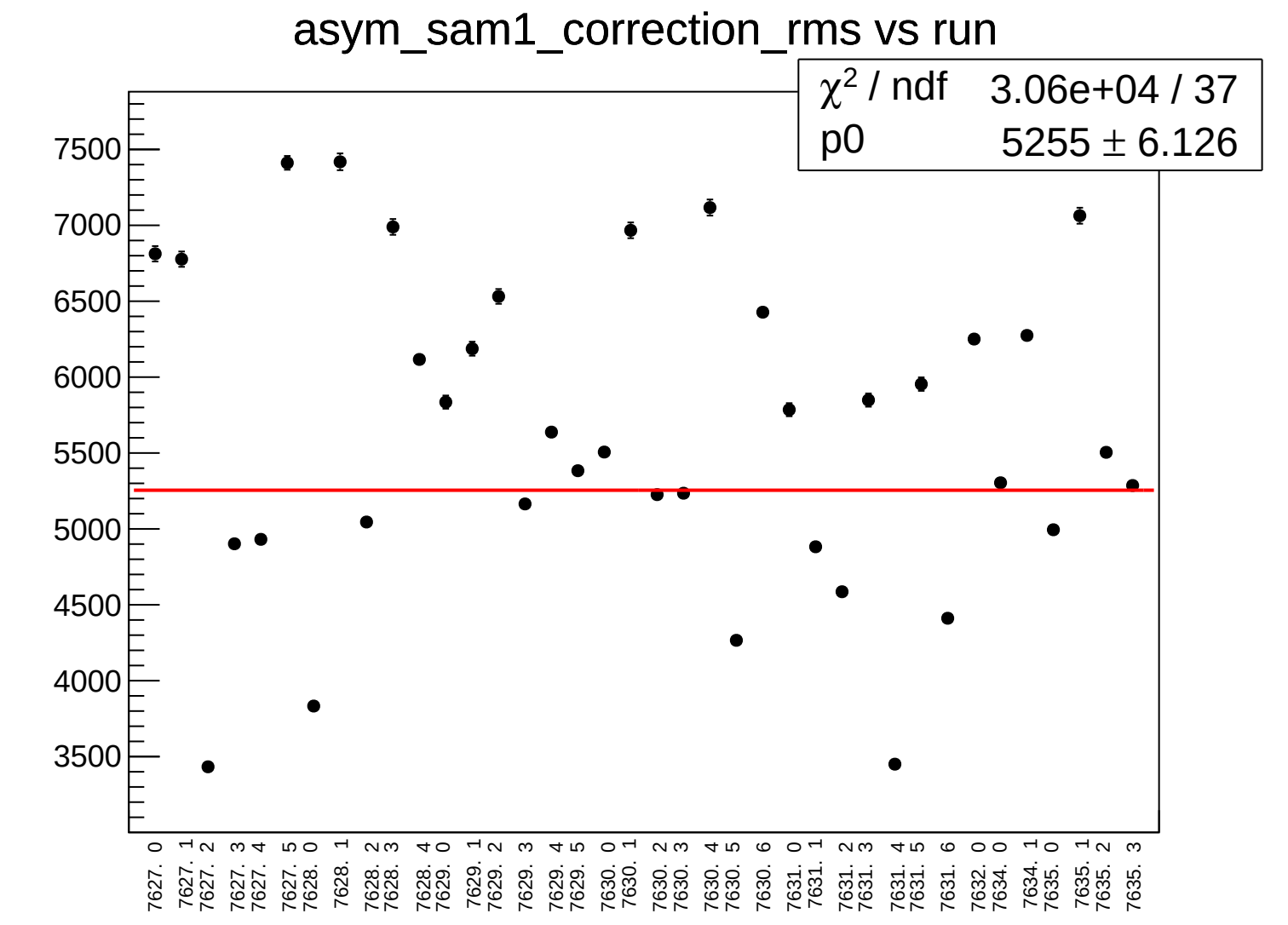

dit_asym_sam1_mean vs run
χ² / ndf 30.5 / 37
p0 −89.06 ± 1063
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −56.86
Std Dev 74.94
1.5
1
0.5
0
−0.5
−1
−1.5

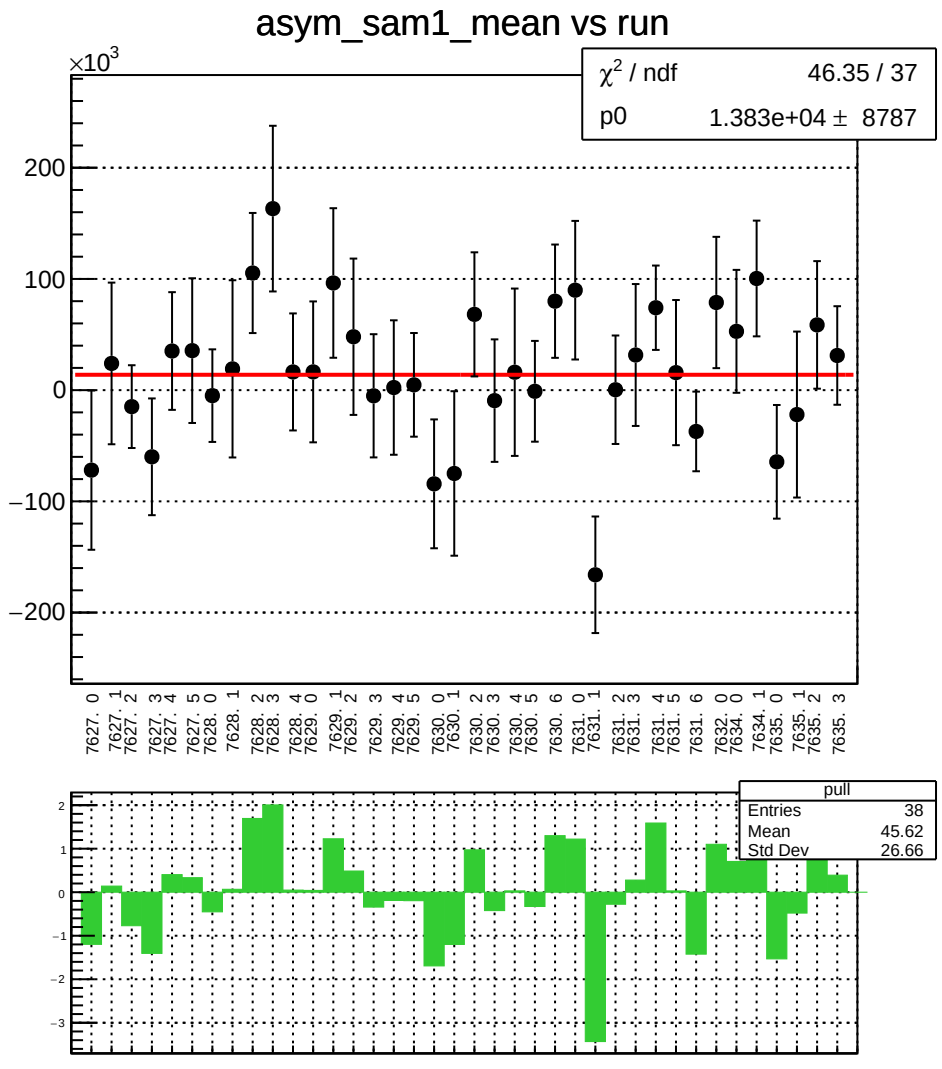

pull1D
Entries 38
Mean −0.0256
Std Dev 0.8956
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

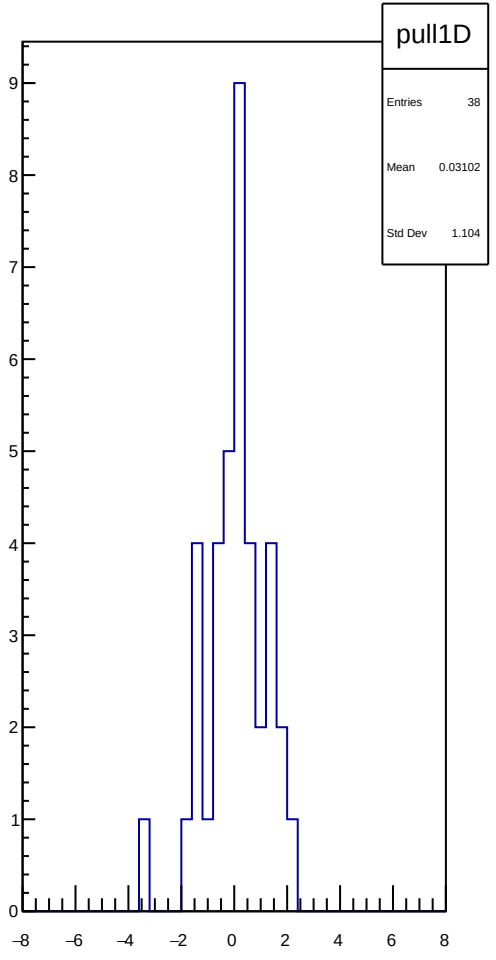

dit_asym_sam1_rms vs run
χ² / ndf 1.539e+04 / 37
p0 651.4 ± 0.7516
900
850
800
750
700
650
600
550
500
450
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

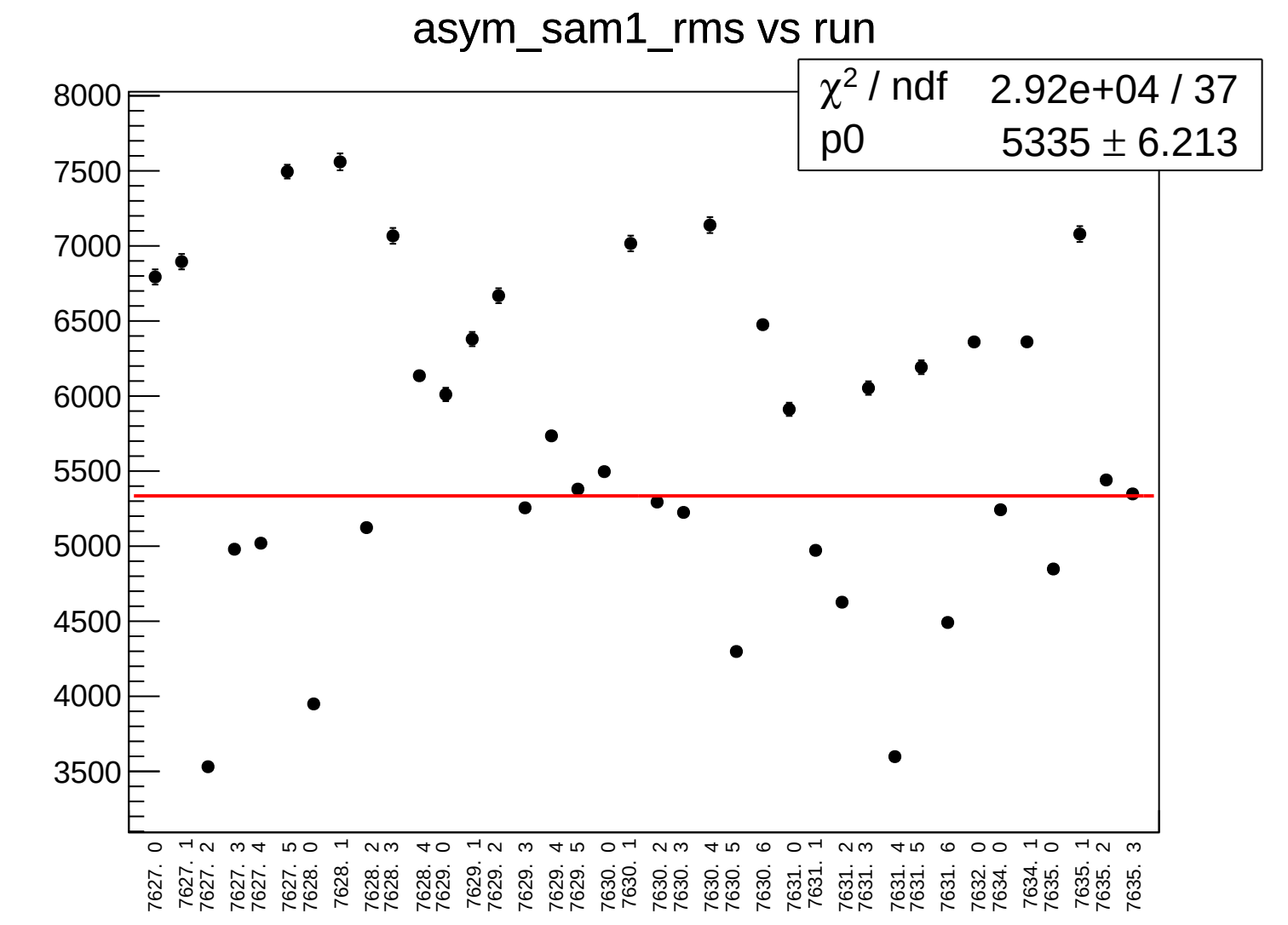

asym_sam1_correction_mean vs run
×10^3
χ² / ndf 47.3 / 37
p0 −1.386e+04 ± 8663
200
100
0
−100
−200
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 36.37
Std Dev 17.13
3
2
1
0
−1
−2

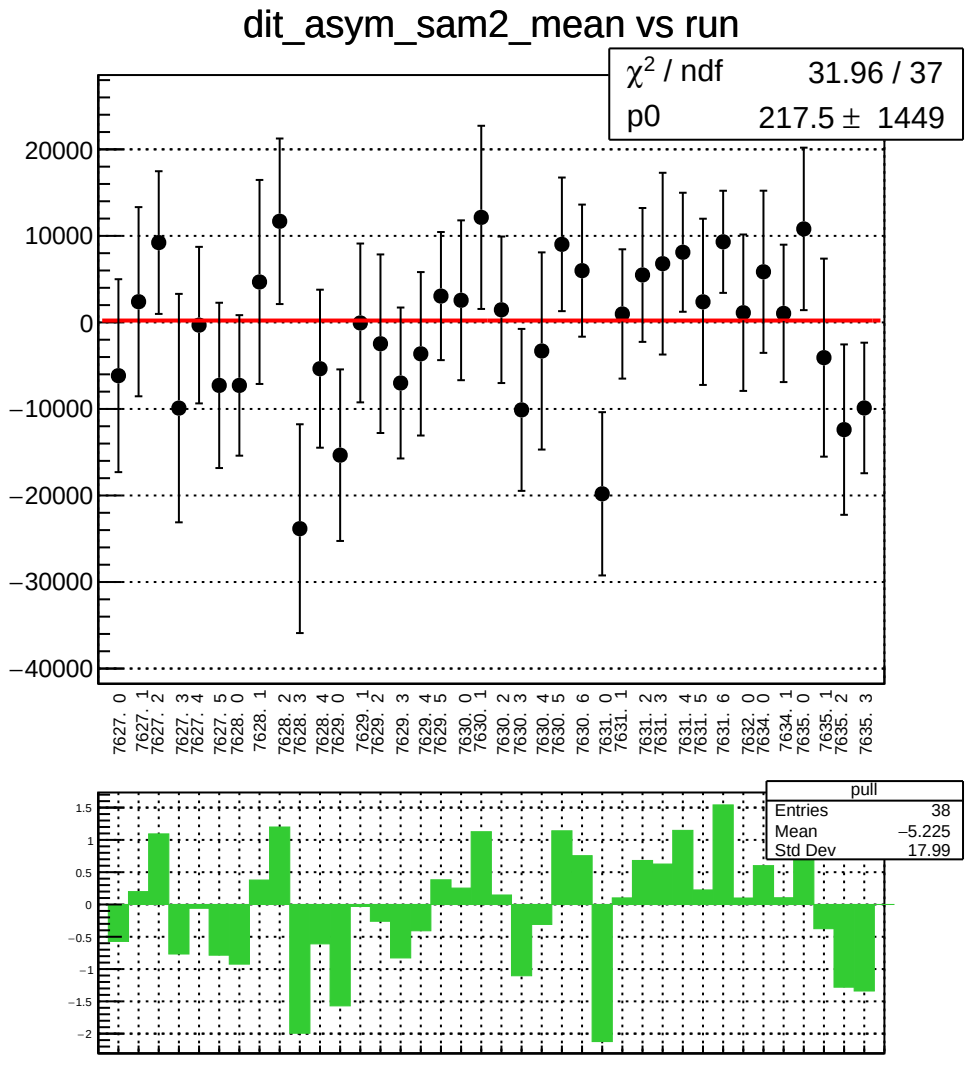

pull1D
Entries 38
Mean −0.03543
Std Dev 1.115
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

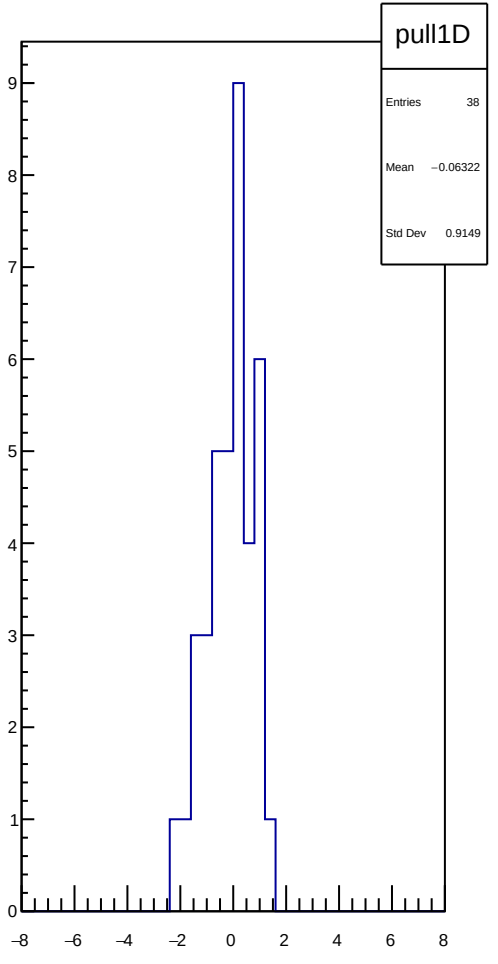

asym_sam1_correction_rms vs run
χ² / ndf 3.06e+04 / 37
p0 5255 ± 6.126
7500
7000
6500
6000
5500
5000
4500
4000
3500
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

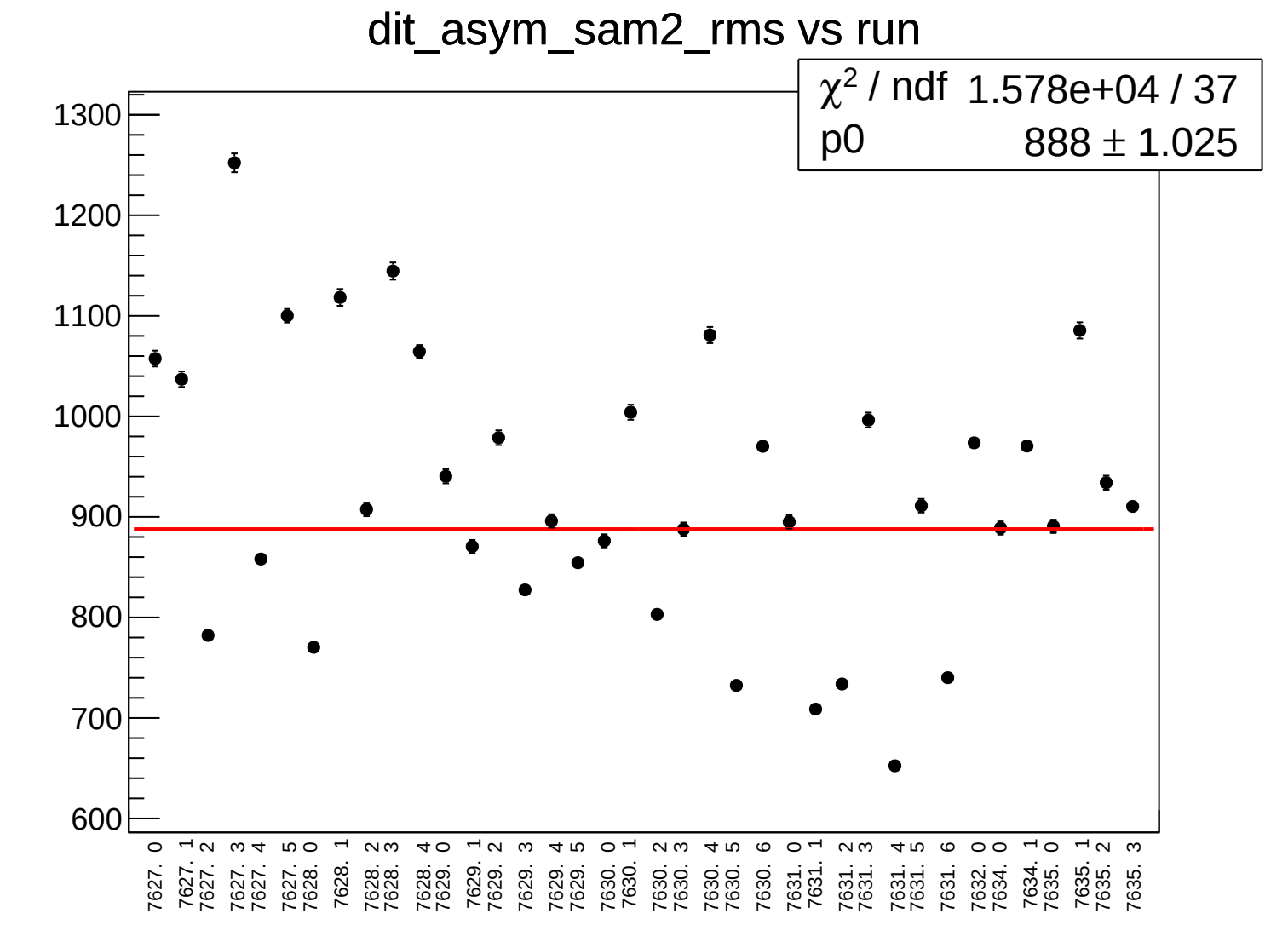

asym_sam1_mean vs run
×10^3
χ² / ndf 46.35 / 37
p0 1.383e+04 ± 8787
200
100
0
−100
−200
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 45.62
Std Dev 26.66
2
1
0
−1
−2
−3

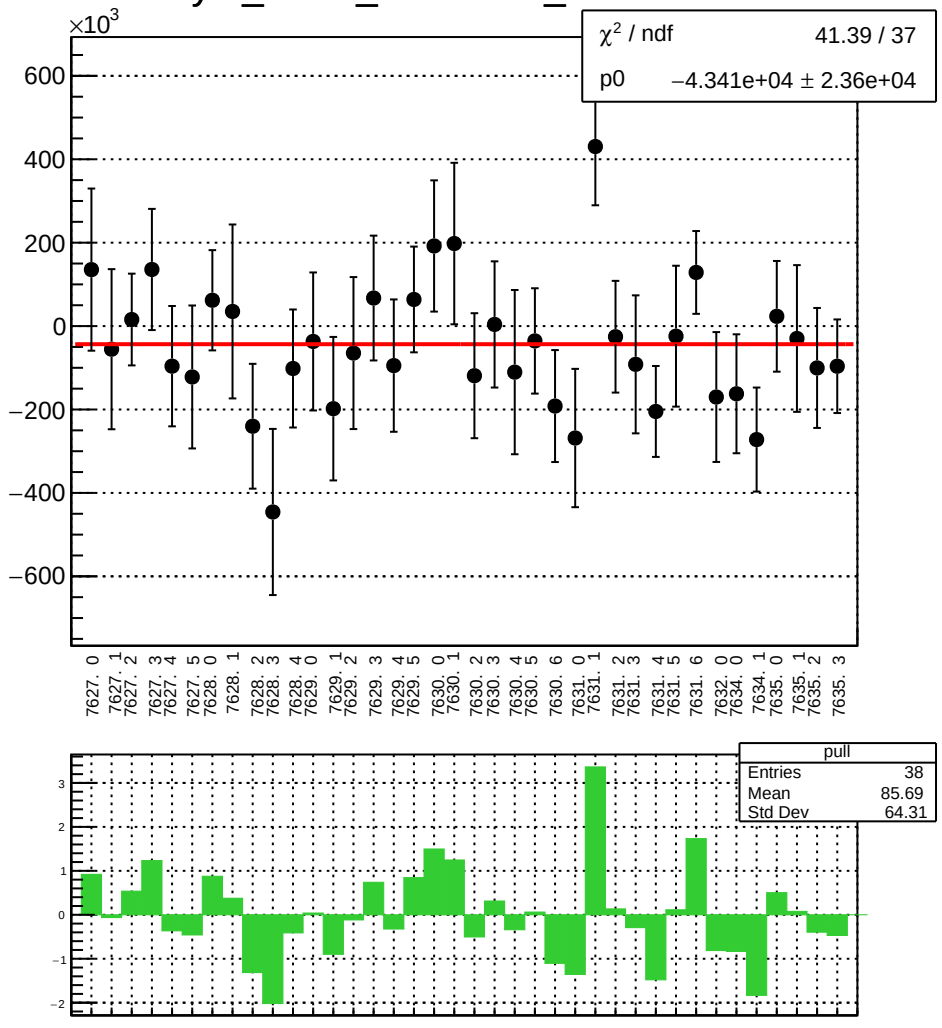

pull1D
Entries 38
Mean 0.03102
Std Dev 1.104
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

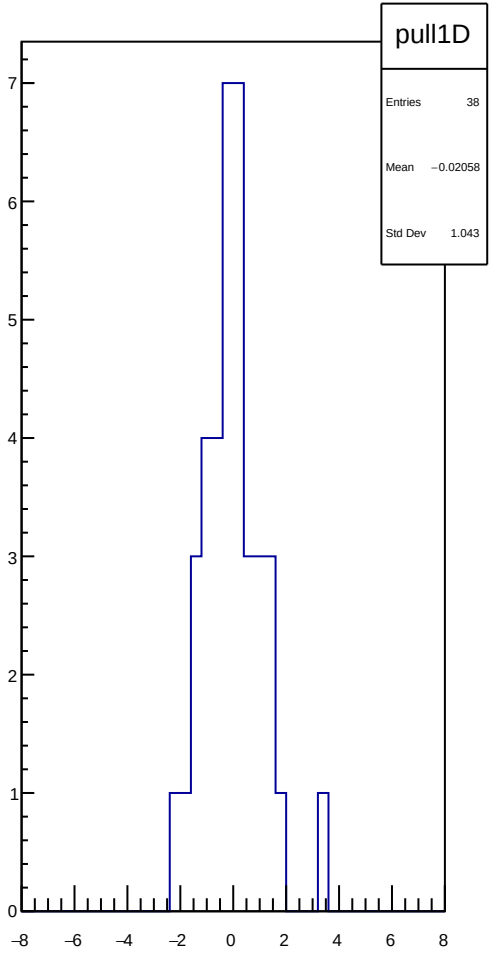

asym_sam1_rms vs run
χ² / ndf 2.92e+04 / 37
p0 5335 ± 6.213
8000
7500
7000
6500
6000
5500
5000
4500
4000
3500
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

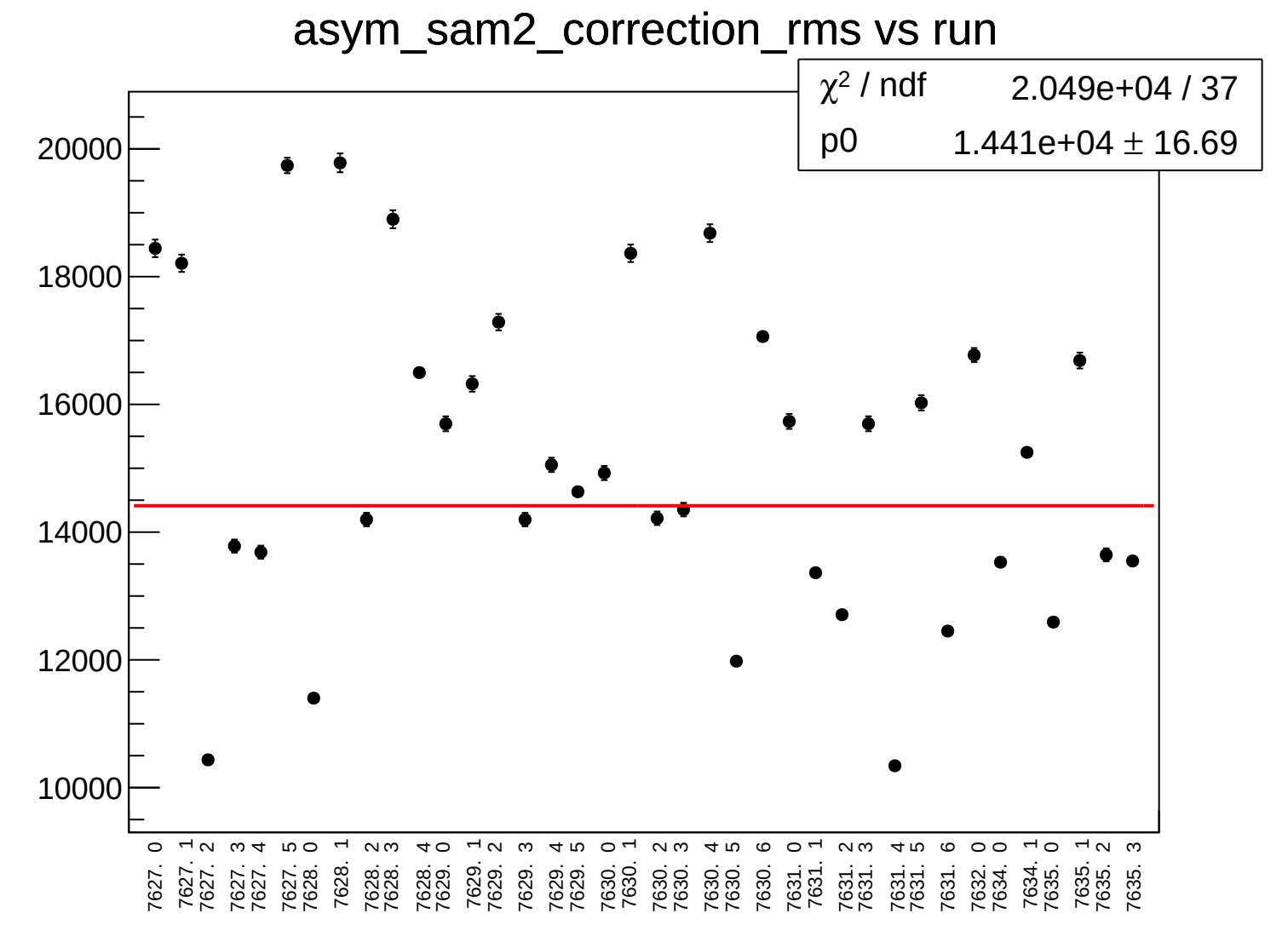

dit_asym_sam2_mean vs run
χ² / ndf 31.96 / 37
p0 217.5 ± 1449
20000
10000
0
−10000
−20000
−30000
−40000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 4
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −5.225
Std Dev 17.99
1.5
1
0.5
0
−0.5
−1
−1.5
−2

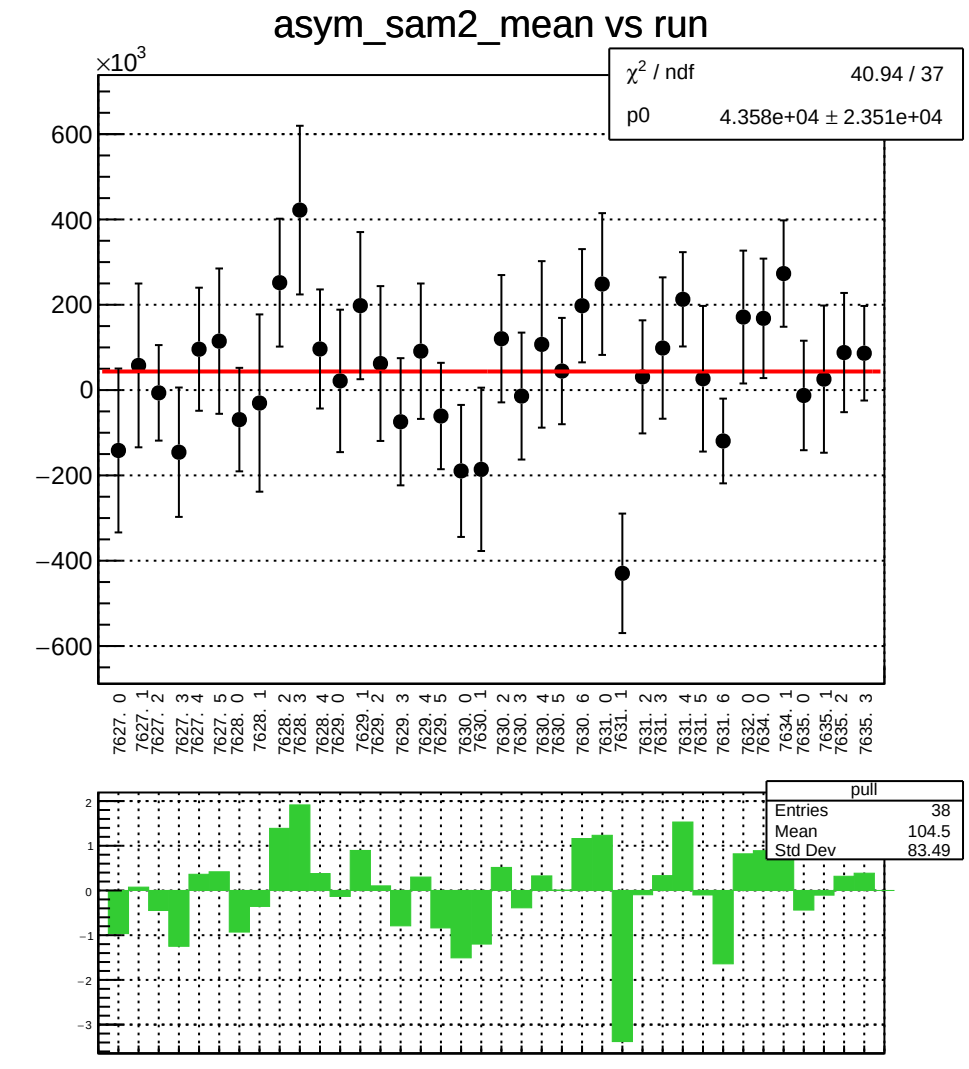

pull1D
Entries 38
Mean −0.06322
Std Dev 0.9149
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

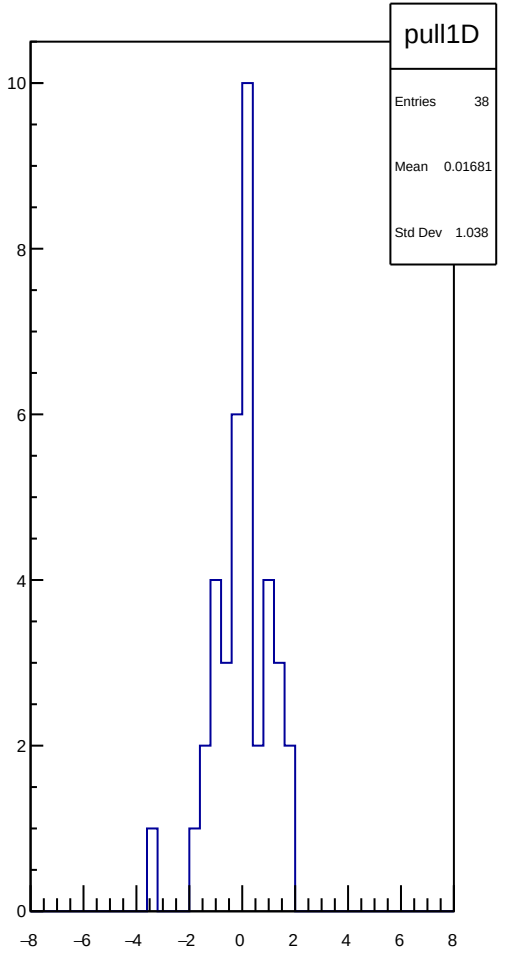

dit_asym_sam2_rms vs run
χ² / ndf 1.578e+04 / 37
p0 888 ± 1.025
1300
1200
1100
1000
900
800
700
600
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

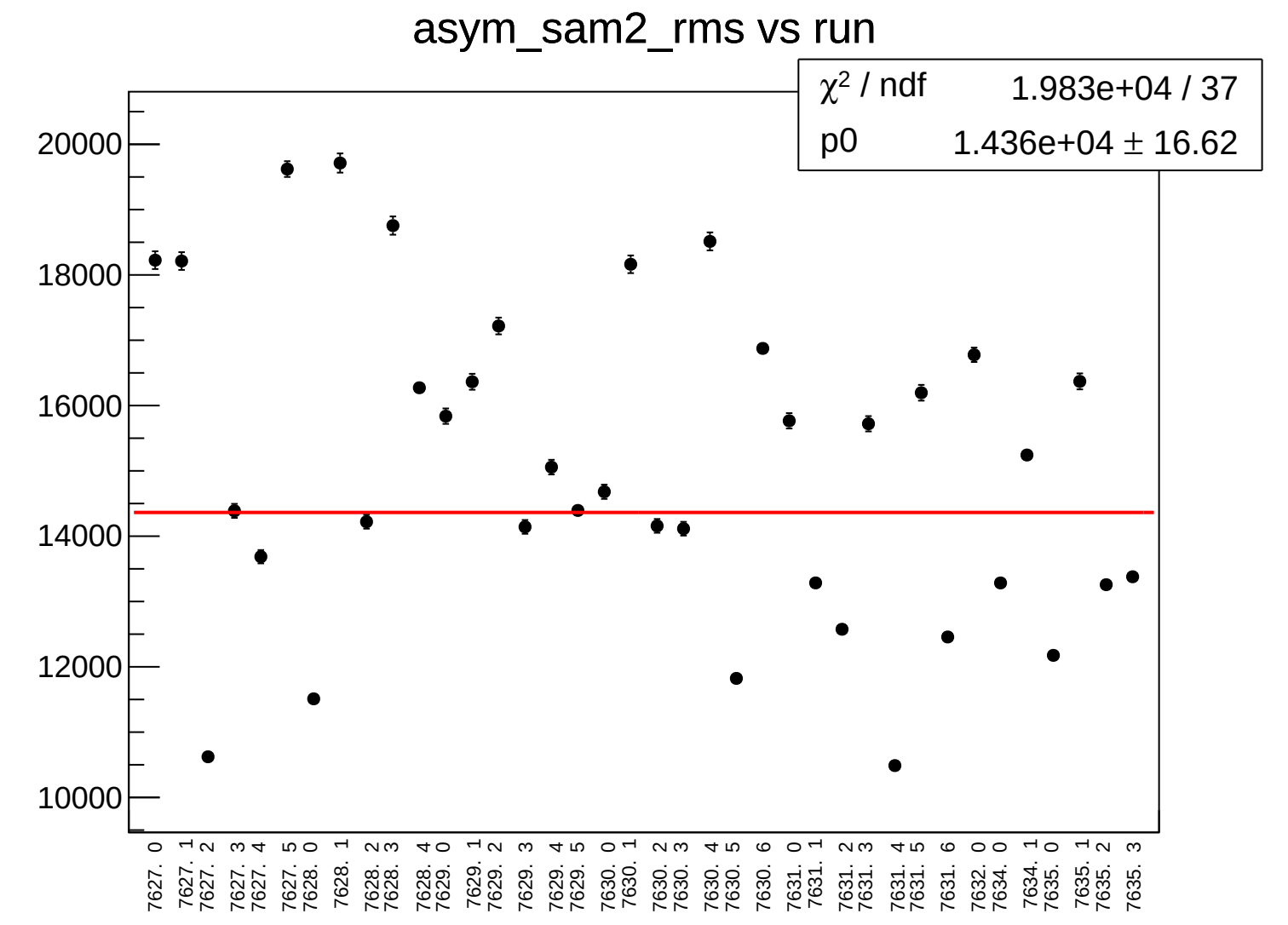

asym_sam2_correction_mean vs run
×10^3
χ² / ndf 41.39 / 37
p0 −4.341e+04 ± 2.36e+04
600
400
200
0
−200
−400
−600
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 4
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 85.69
Std Dev 64.31
3
2
1
0
−1
−2

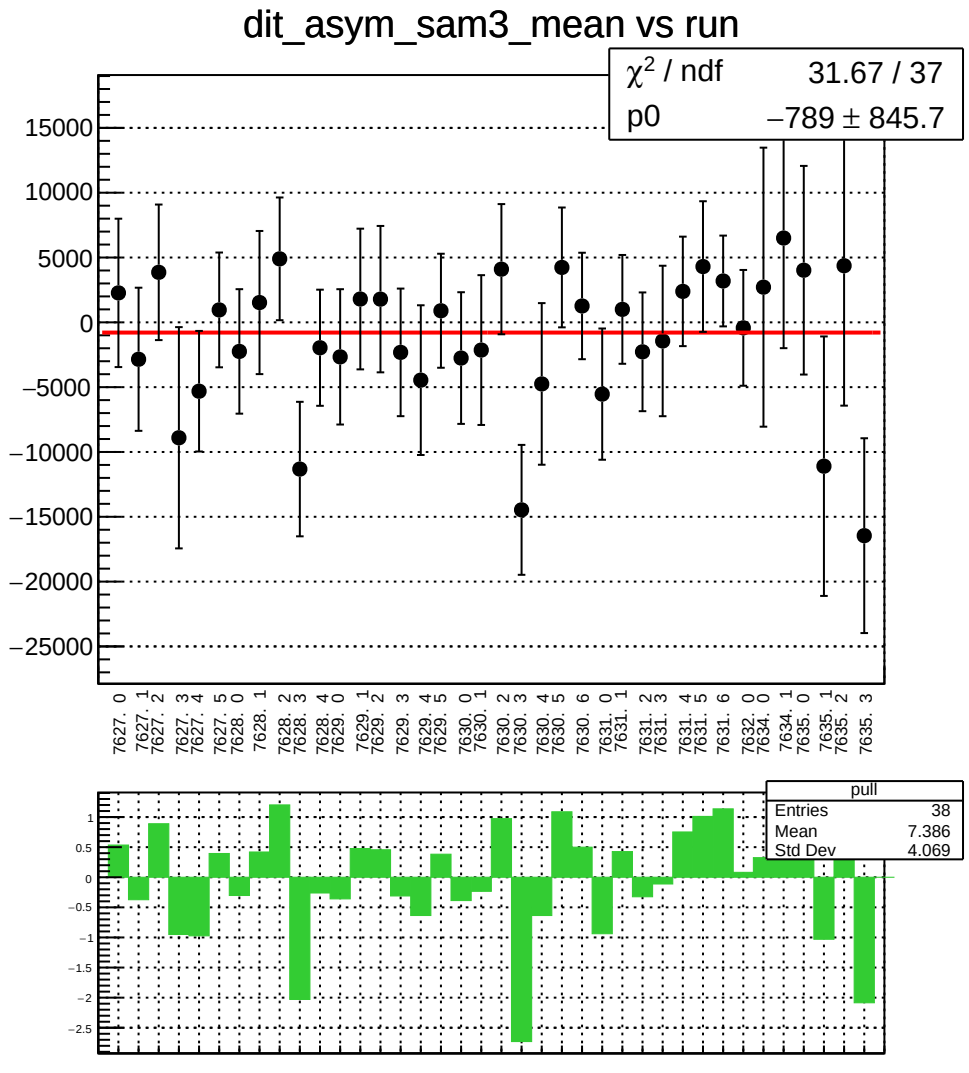

pull1D
Entries 38
Mean −0.02058
Std Dev 1.043
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

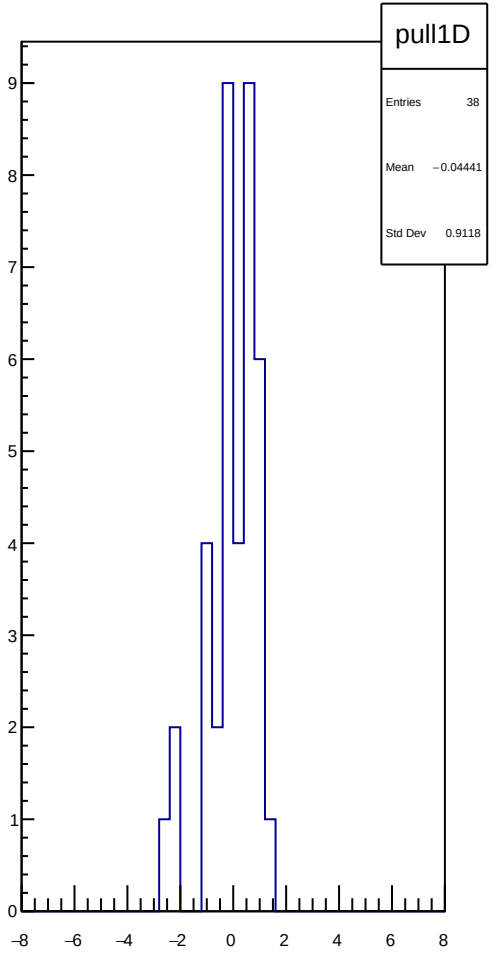

asym_sam2_correction_rms vs run
χ² / ndf 2.049e+04 / 37
p0 1.441e+04 ± 16.69
20000
18000
16000
14000
12000
10000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

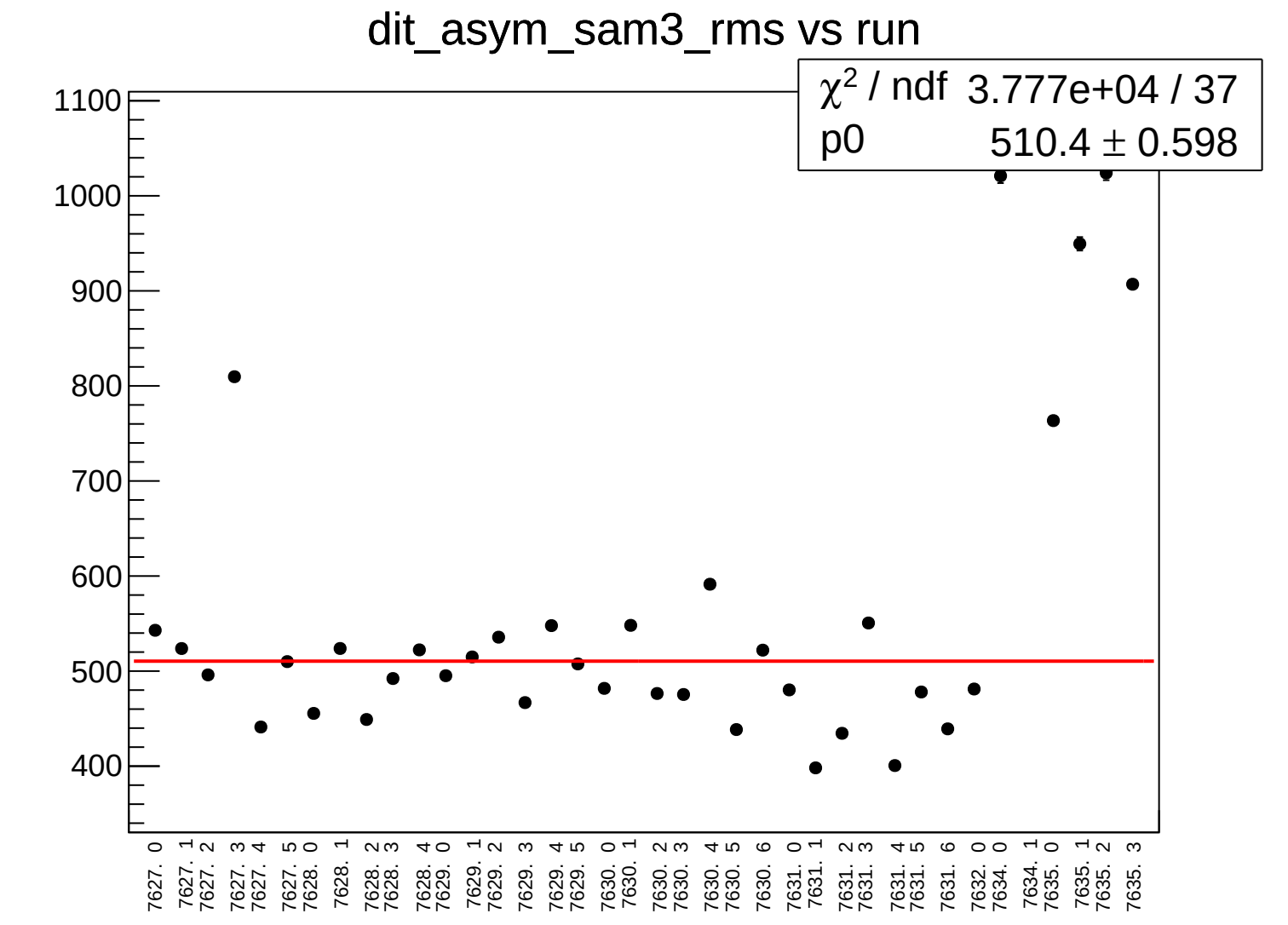

asym_sam2_mean vs run
×10^3
χ² / ndf 40.94 / 37
p0 4.358e+04 ± 2.351e+04
600
400
200
0
−200
−400
−600
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 104.5
Std Dev 83.49
2
1
0
−1
−2
−3

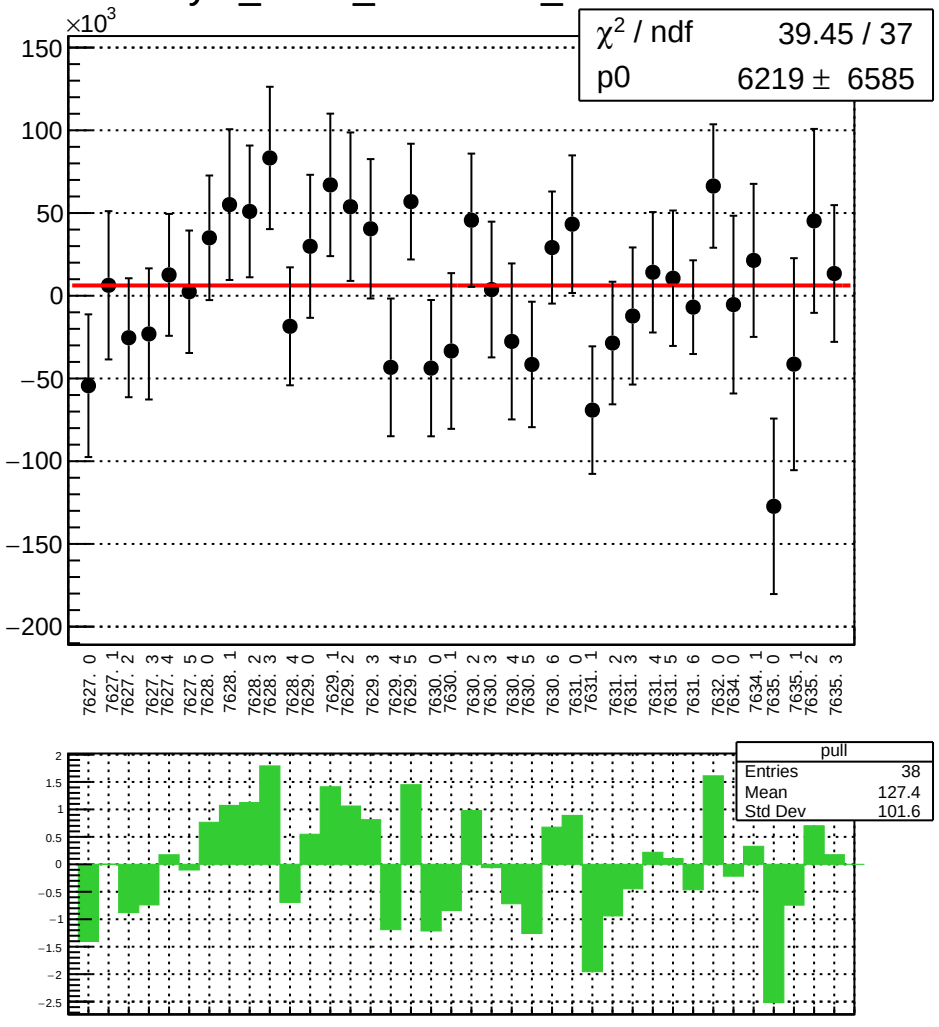

pull1D
Entries 38
Mean 0.01681
Std Dev 1.038
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

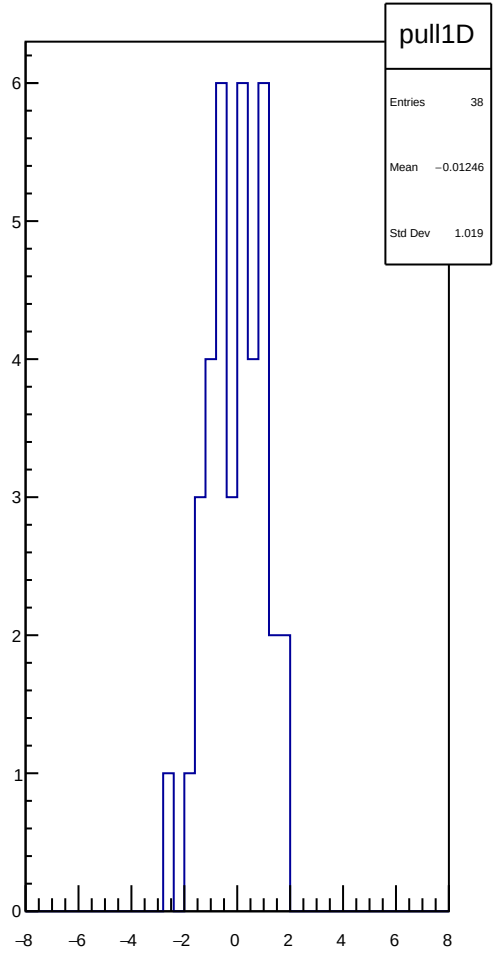

asym_sam2_rms vs run
χ² / ndf 1.983e+04 / 37
p0 1.436e+04 ± 16.62
20000
18000
16000
14000
12000
10000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

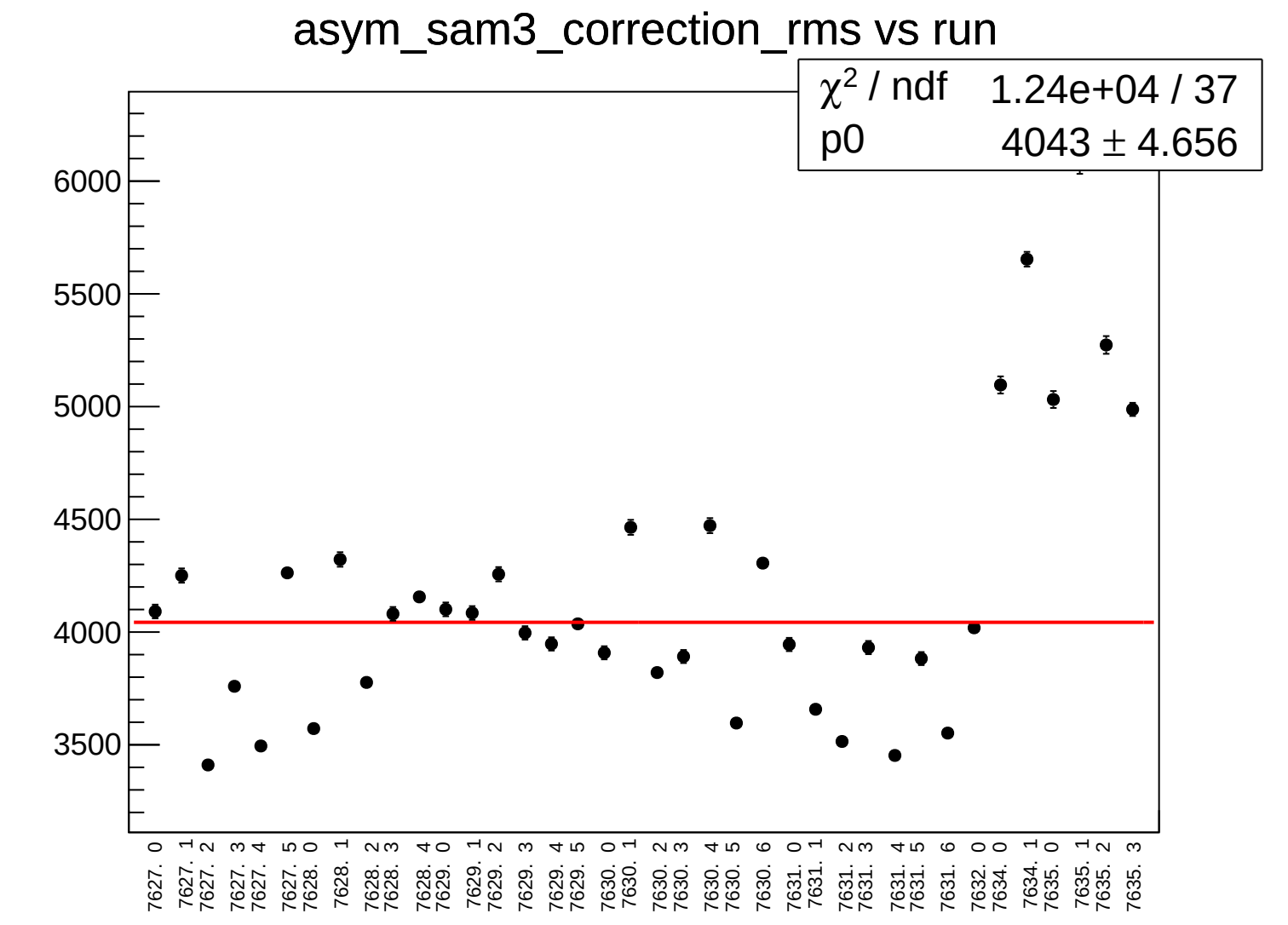

dit_asym_sam3_mean vs run
χ² / ndf 31.67 / 37
p0 −789 ± 845.7
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 7.386
Std Dev 4.069
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

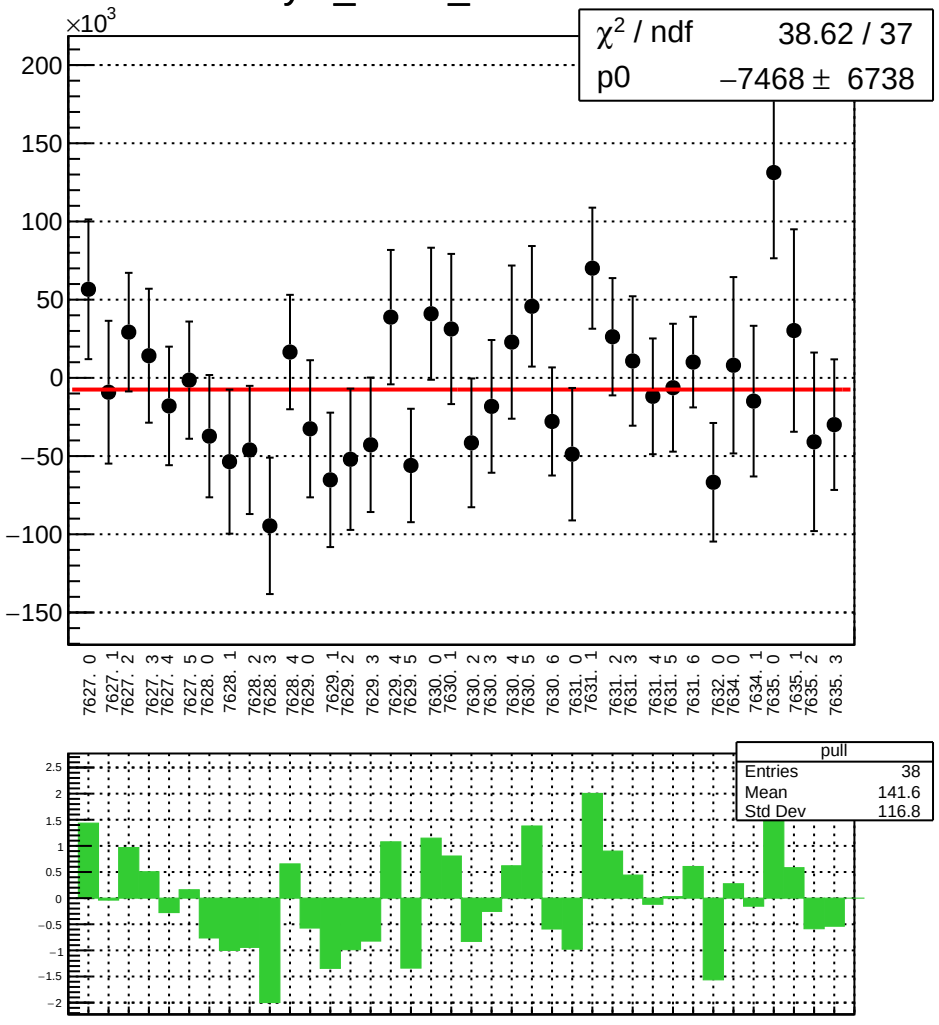

pull1D
Entries 38
Mean −0.04441
Std Dev 0.9118
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

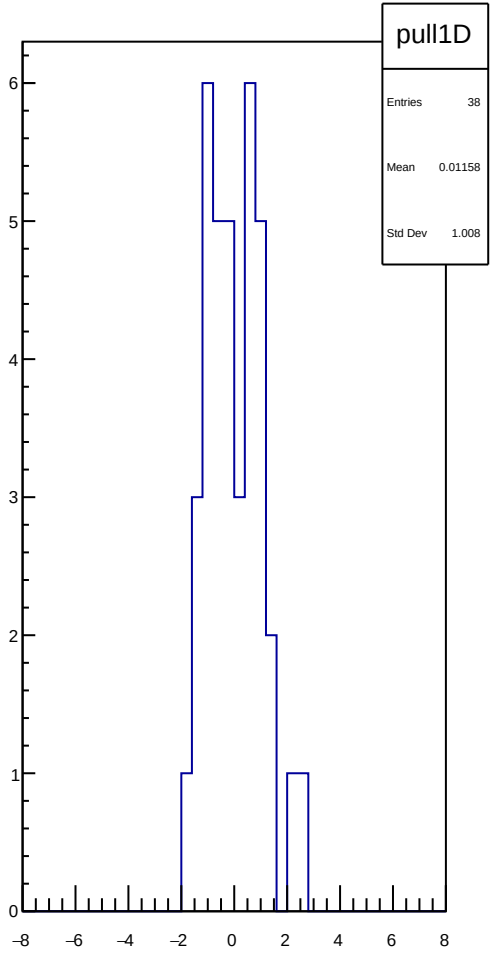

dit_asym_sam3_rms vs run
χ² / ndf 3.777e+04 / 37
p0 510.4 ± 0.598
1100
1000
900
800
700
600
500
400
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

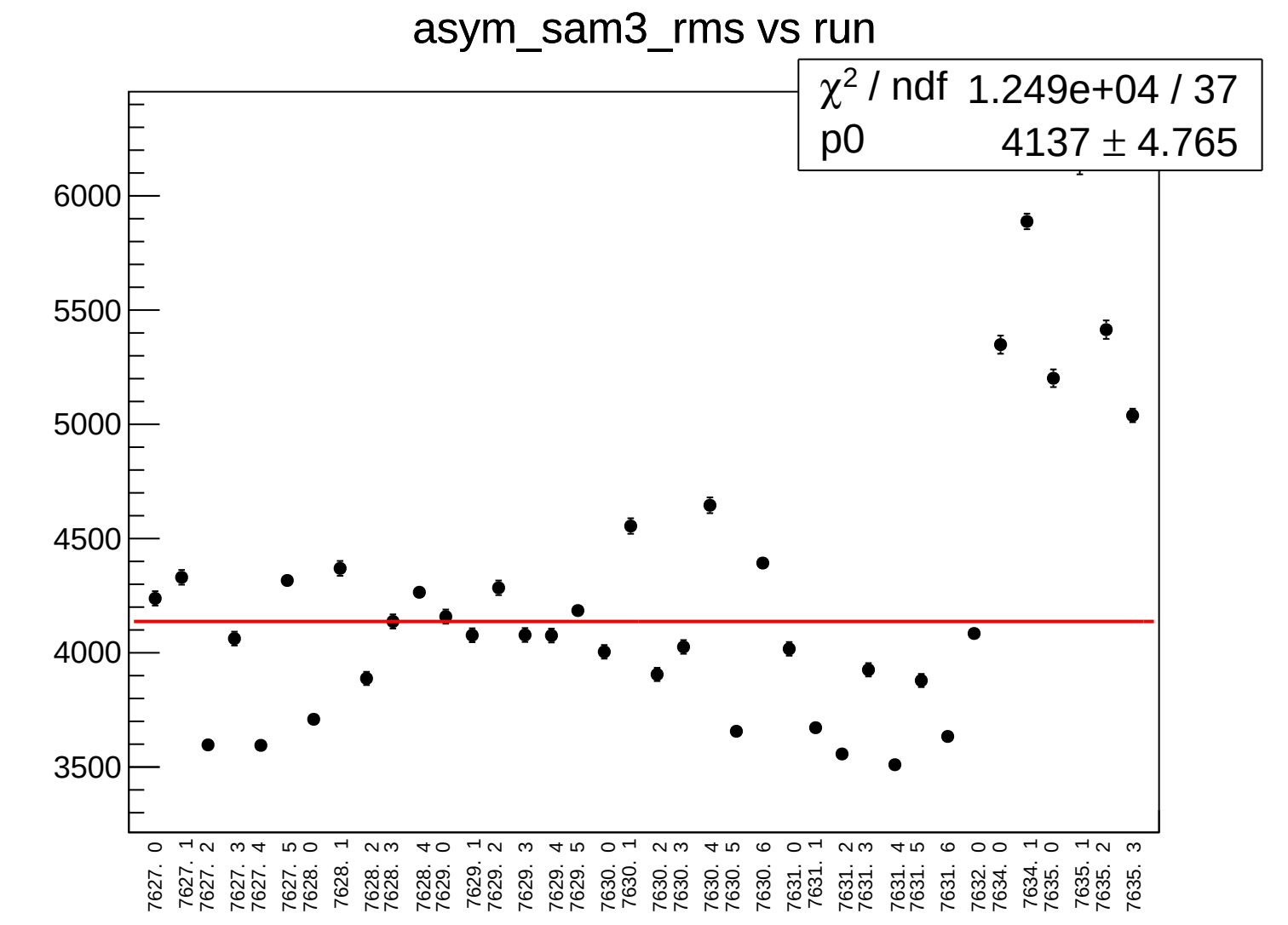

asym_sam3_correction_mean vs run
×10^3
χ² / ndf 39.45 / 37
p0 6219 ± 6585
150
100
50
0
−50
−100
−150
−200
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 127.4
Std Dev 101.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

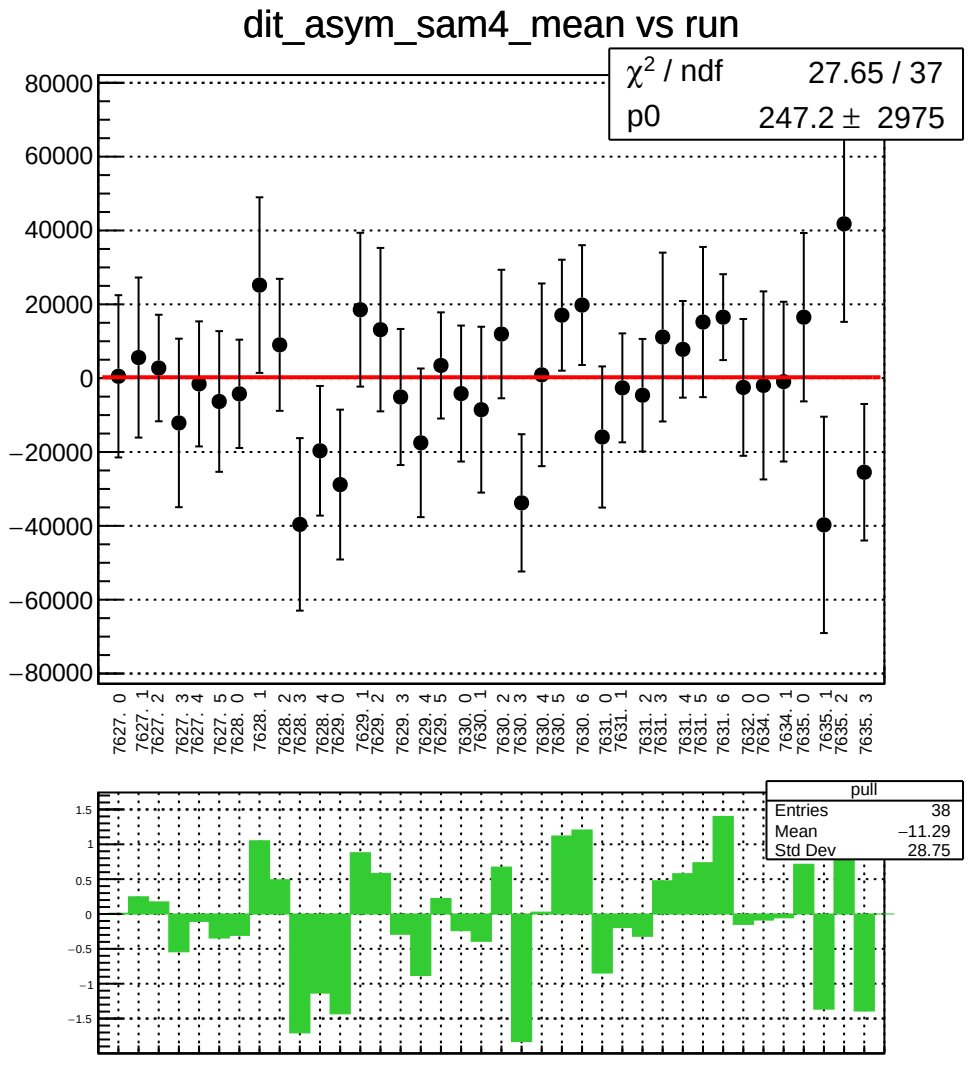

pull1D
Entries 38
Mean −0.01246
Std Dev 1.019
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

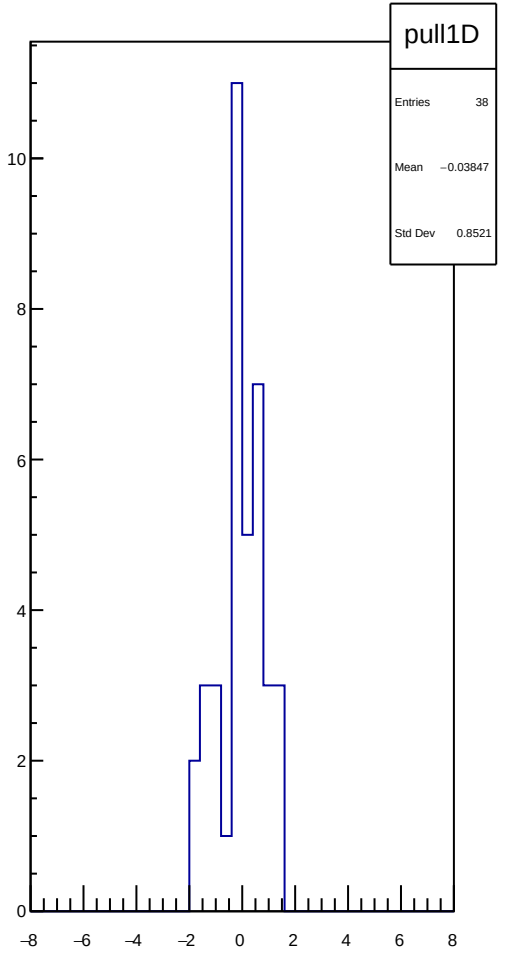

asym_sam3_correction_rms vs run
χ² / ndf 1.24e+04 / 37
p0 4043 ± 4.656
6000
5500
5000
4500
4000
3500
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

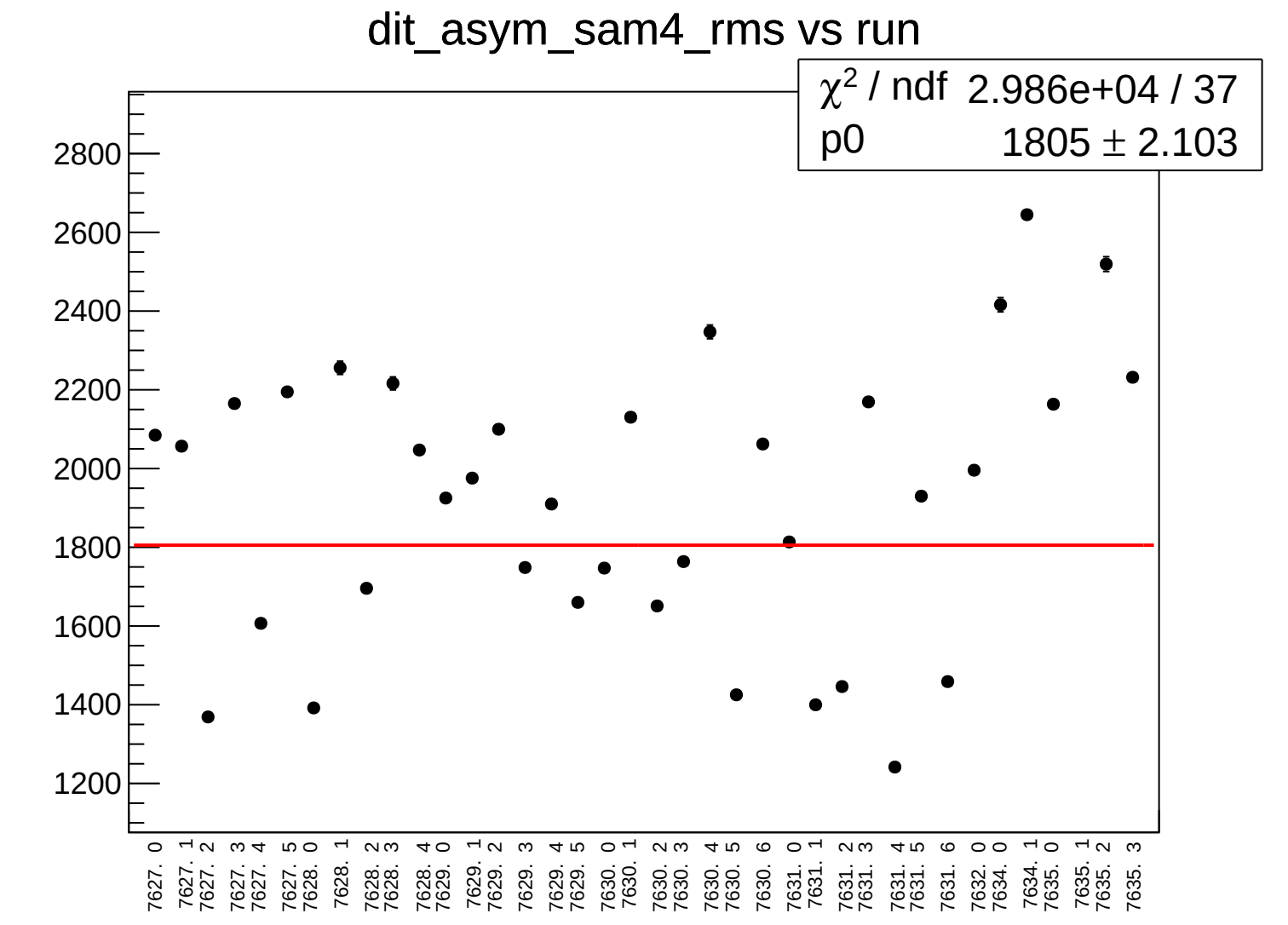

asym_sam3_mean vs run
×10^3
χ² / ndf 38.62 / 37
p0 −7468 ± 6738
200
150
100
50
0
−50
−100
−150
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 141.6
Std Dev 116.8
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

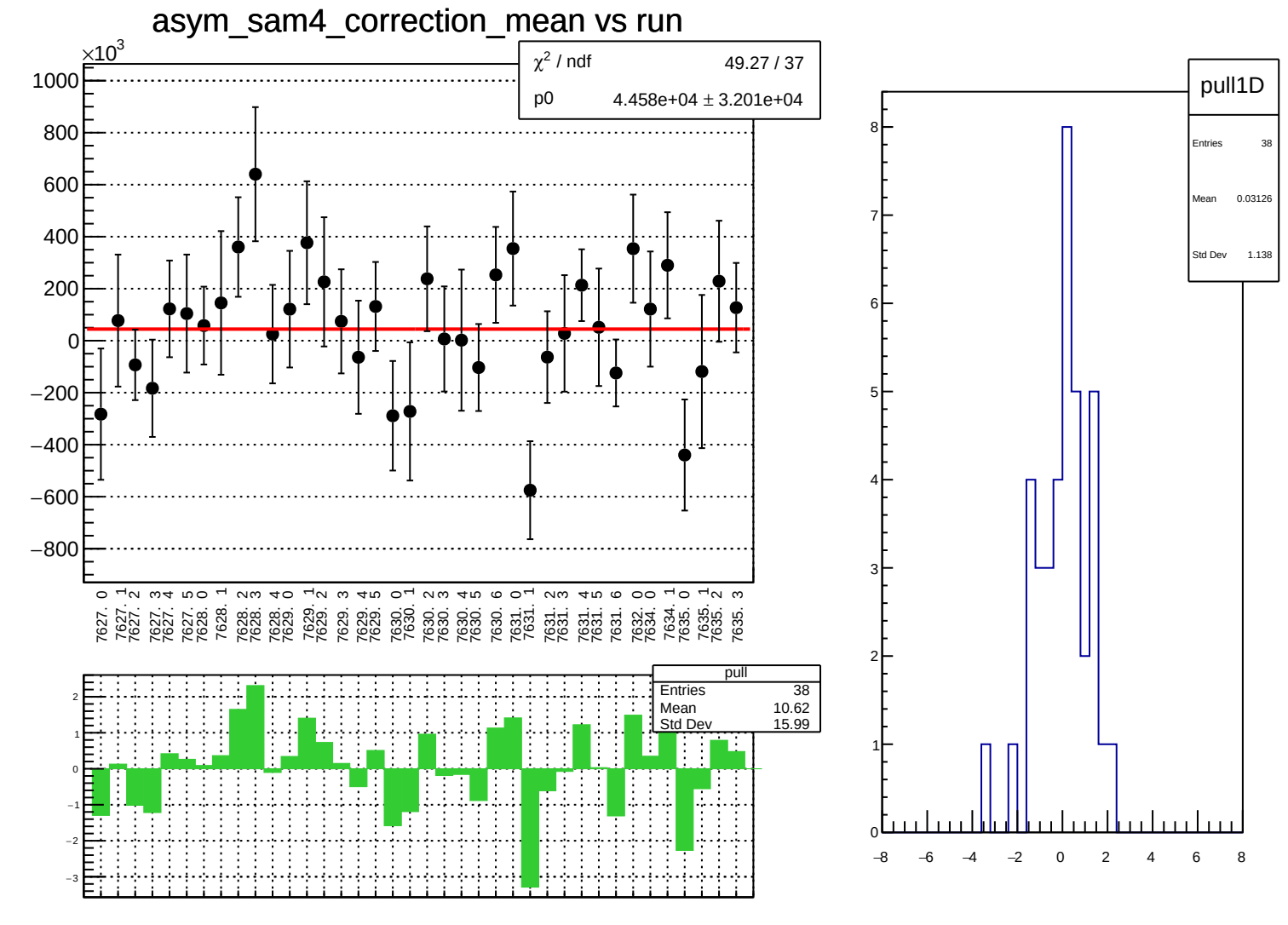

pull1D
Entries 38
Mean 0.01158
Std Dev 1.008
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

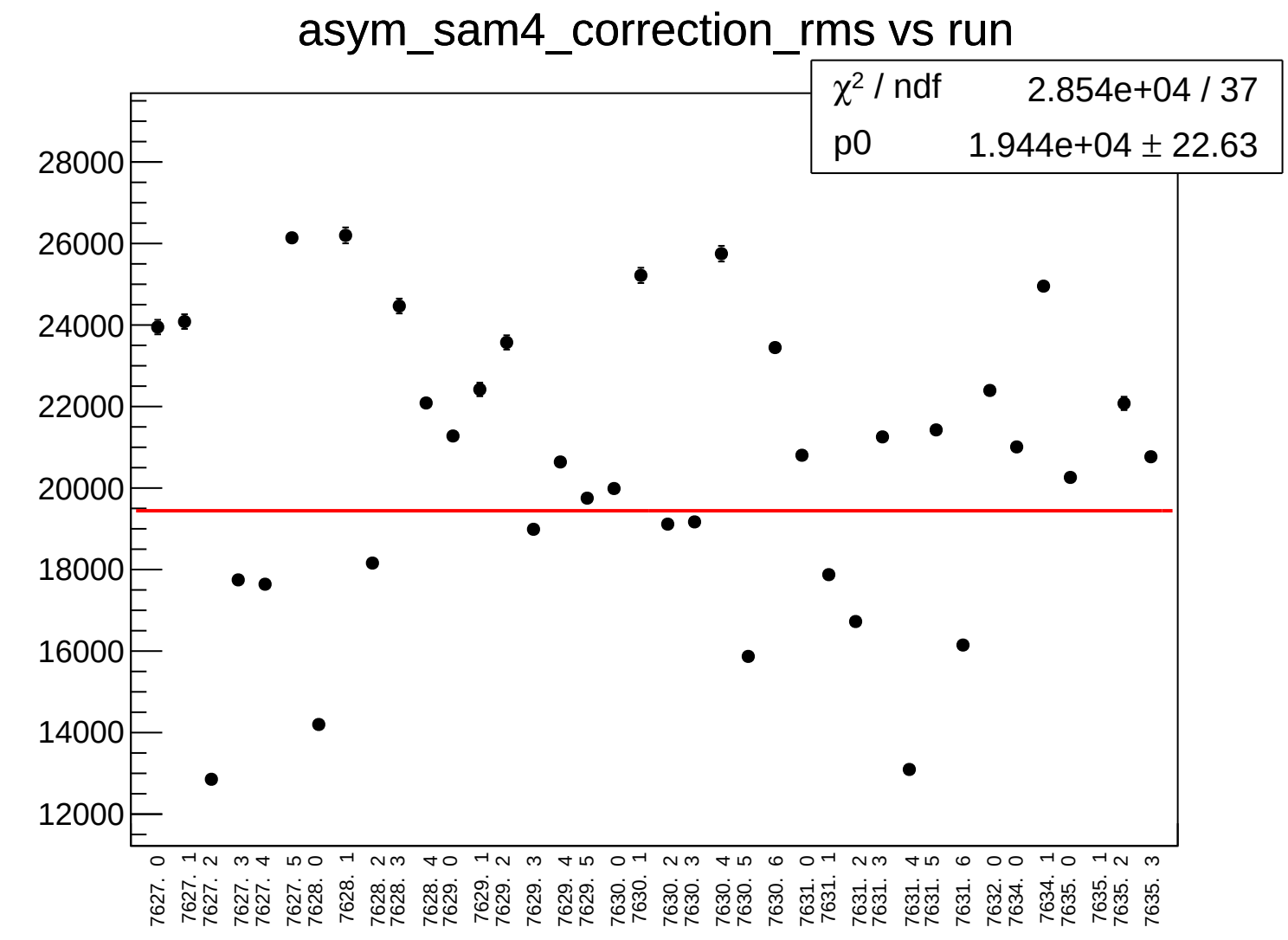

asym_sam3_rms vs run
χ² / ndf 1.249e+04 / 37
p0 4137 ± 4.765
6000
5500
5000
4500
4000
3500
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

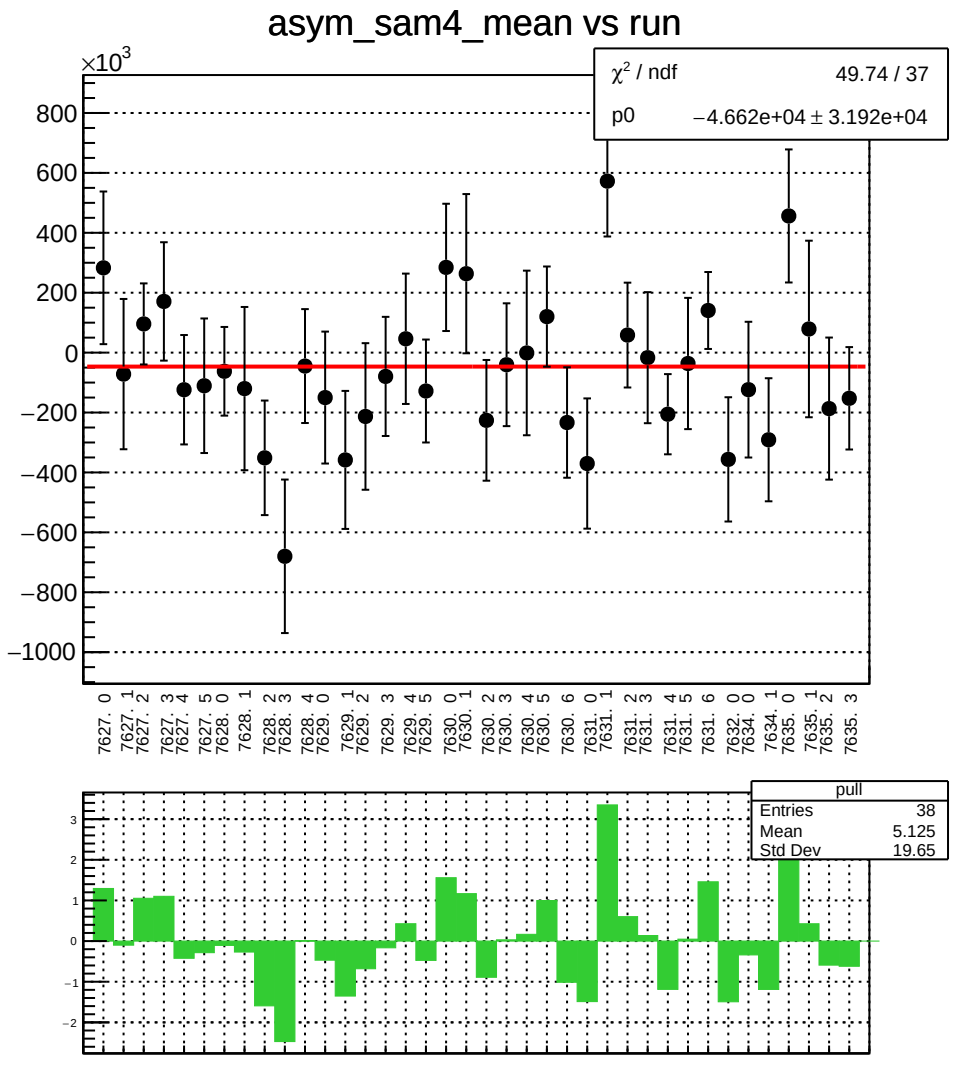

dit_asym_sam4_mean vs run
χ² / ndf 27.65 / 37
p0 247.2 ± 2975
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −11.29
Std Dev 28.75
1.5
1
0.5
0
−0.5
−1
−1.5

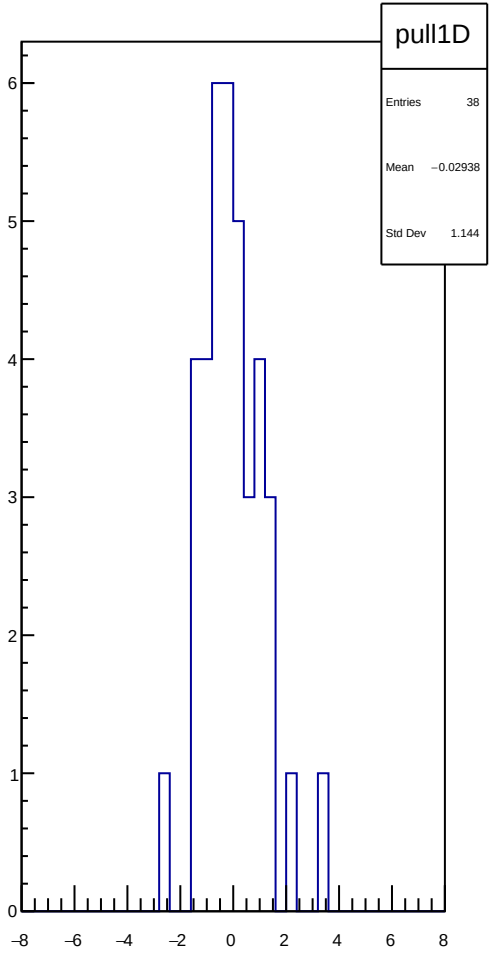

pull1D
Entries 38
Mean −0.03847
Std Dev 0.8521
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

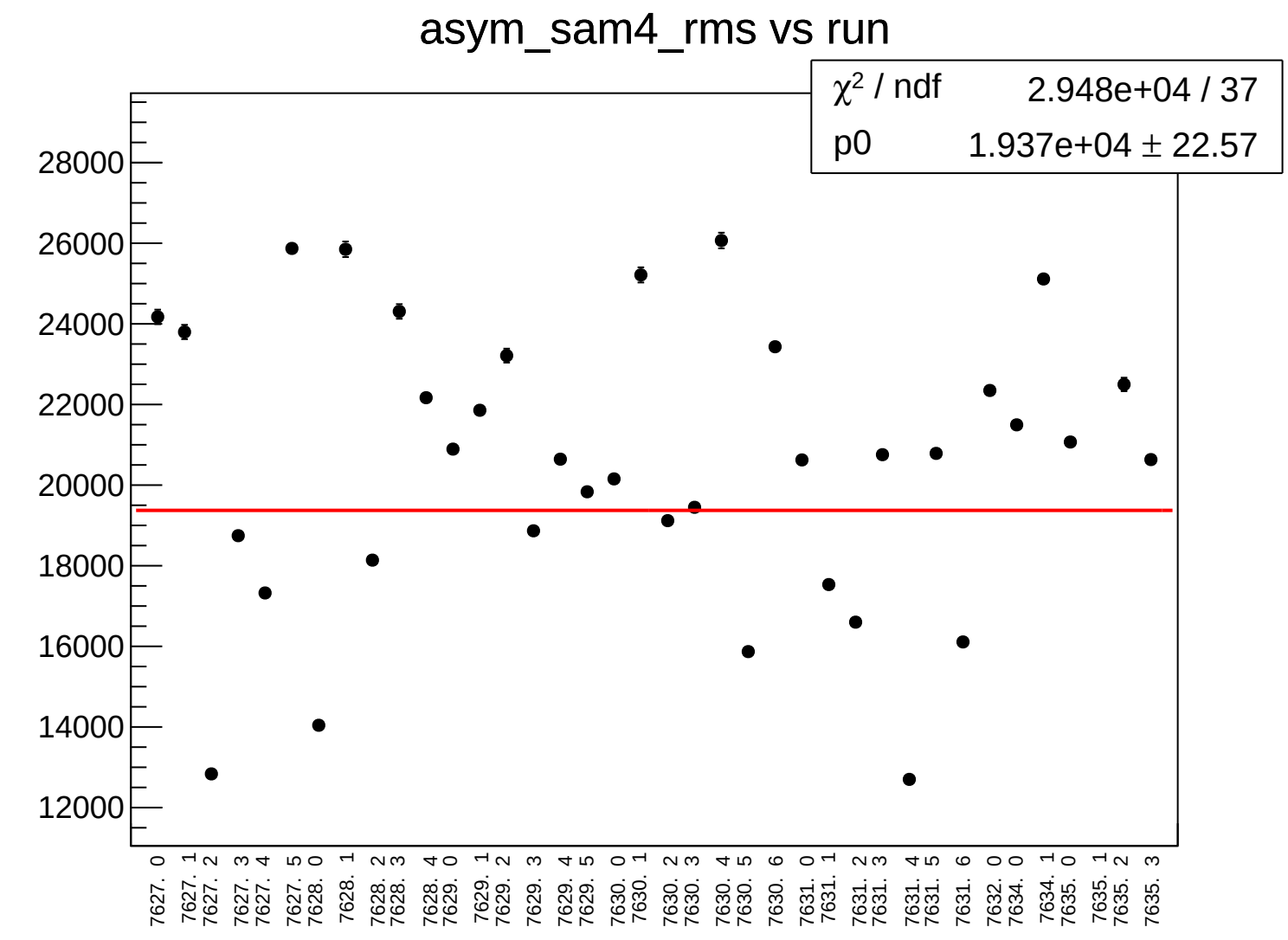

dit_asym_sam4_rms vs run
χ² / ndf 2.986e+04 / 37
p0 1805 ± 2.103
2800
2600
2400
2200
2000
1800
1600
1400
1200
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

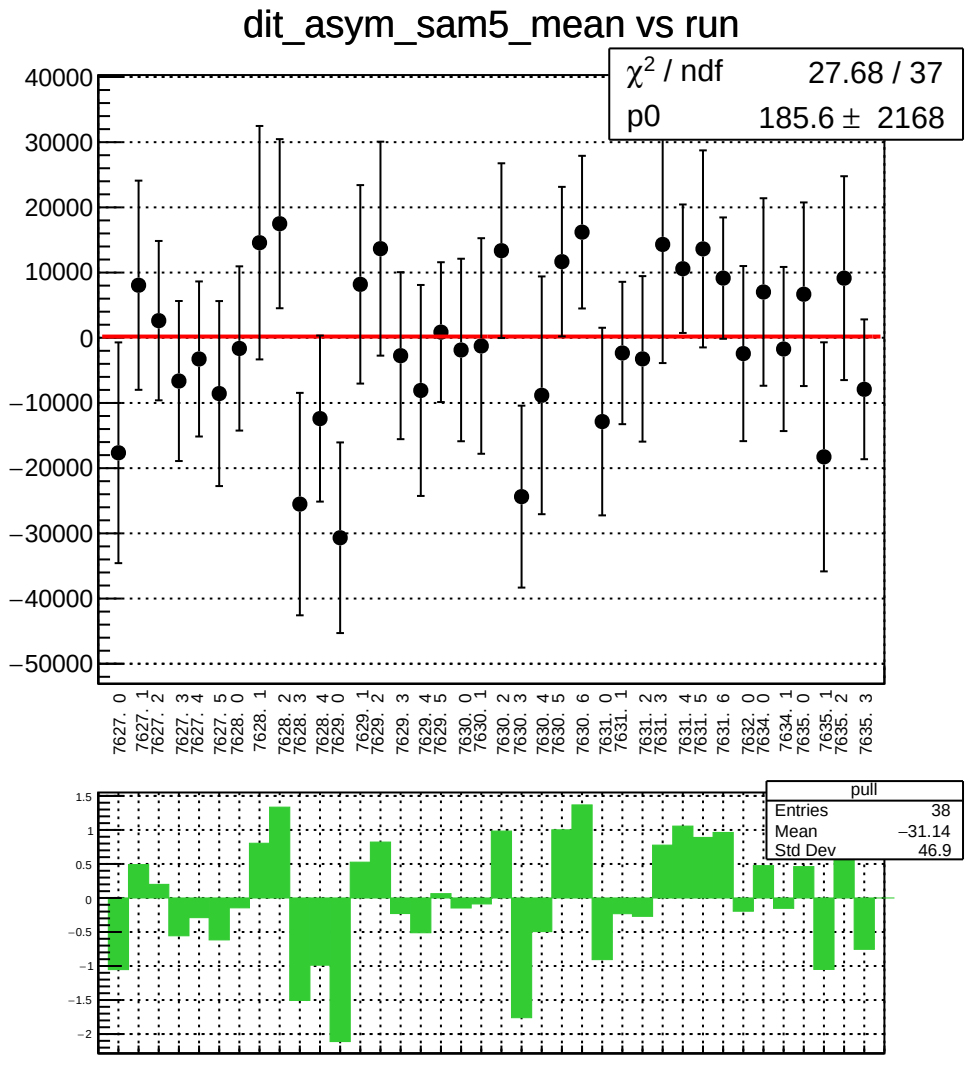

asym_sam4_correction_mean vs run
×10^3
χ² / ndf 49.27 / 37
p0 4.458e+04 ± 3.201e+04
1000
800
600
400
200
0
−200
−400
−600
−800
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 10.62
Std Dev 15.99
2
1
0
−1
−2
−3
pull1D
Entries 38
Mean 0.03126
Std Dev 1.138
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

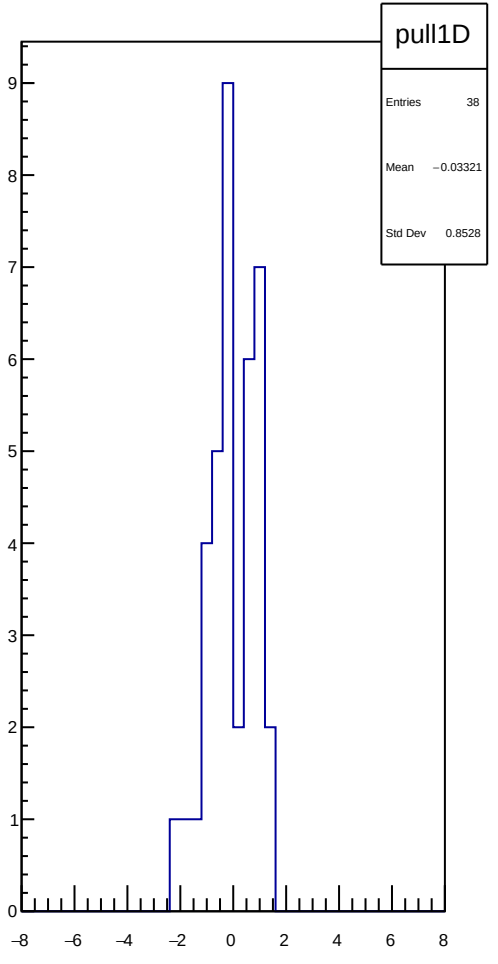

asym_sam4_correction_rms vs run
χ² / ndf 2.854e+04 / 37
p0 1.944e+04 ± 22.63
28000
26000
24000
22000
20000
18000
16000
14000
12000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

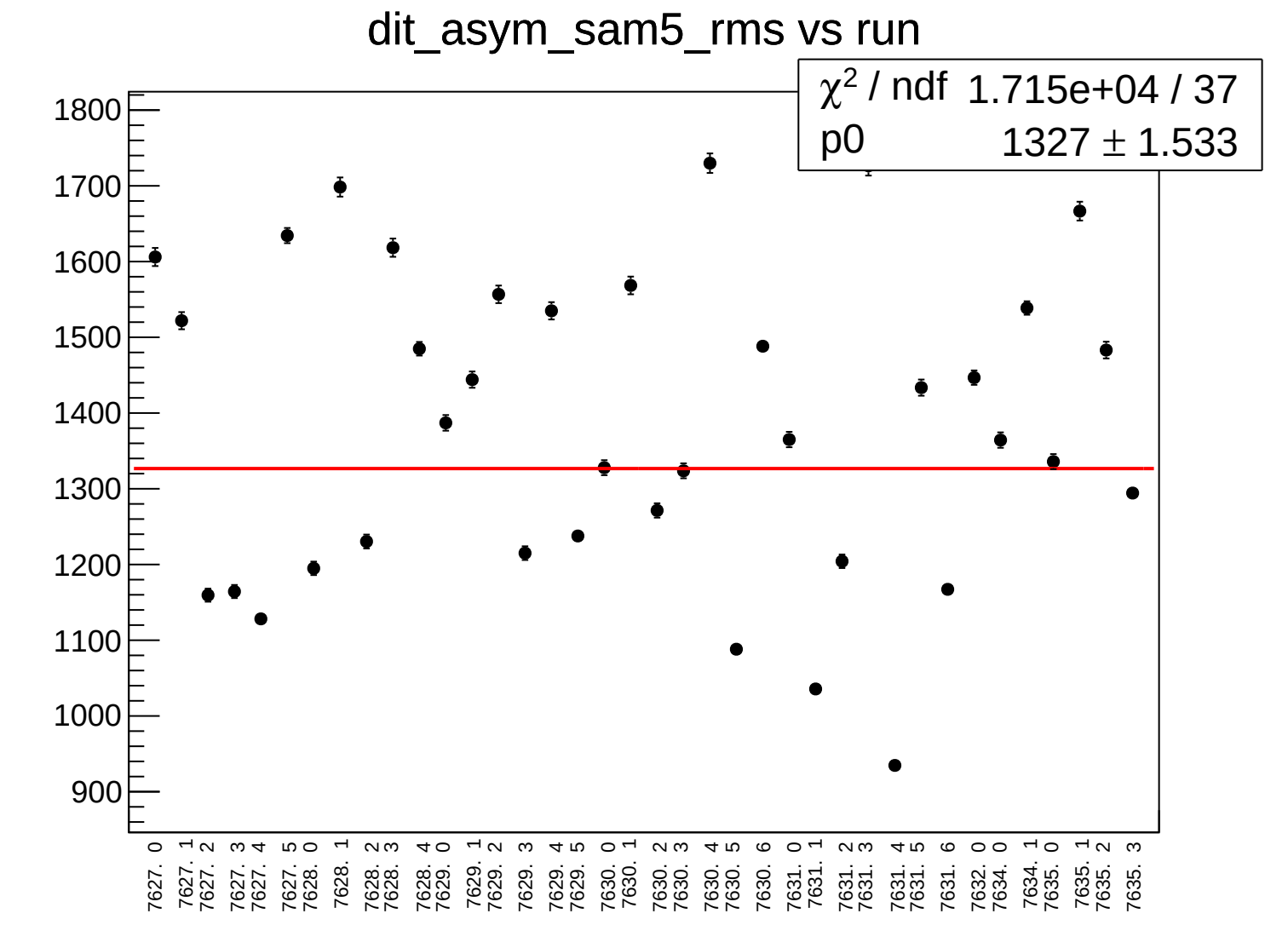

asym_sam4_mean vs run
×10^3
χ² / ndf 49.74 / 37
p0 −4.662e+04 ± 3.192e+04
pull
Entries 38
Mean 5.125
Std Dev 19.65

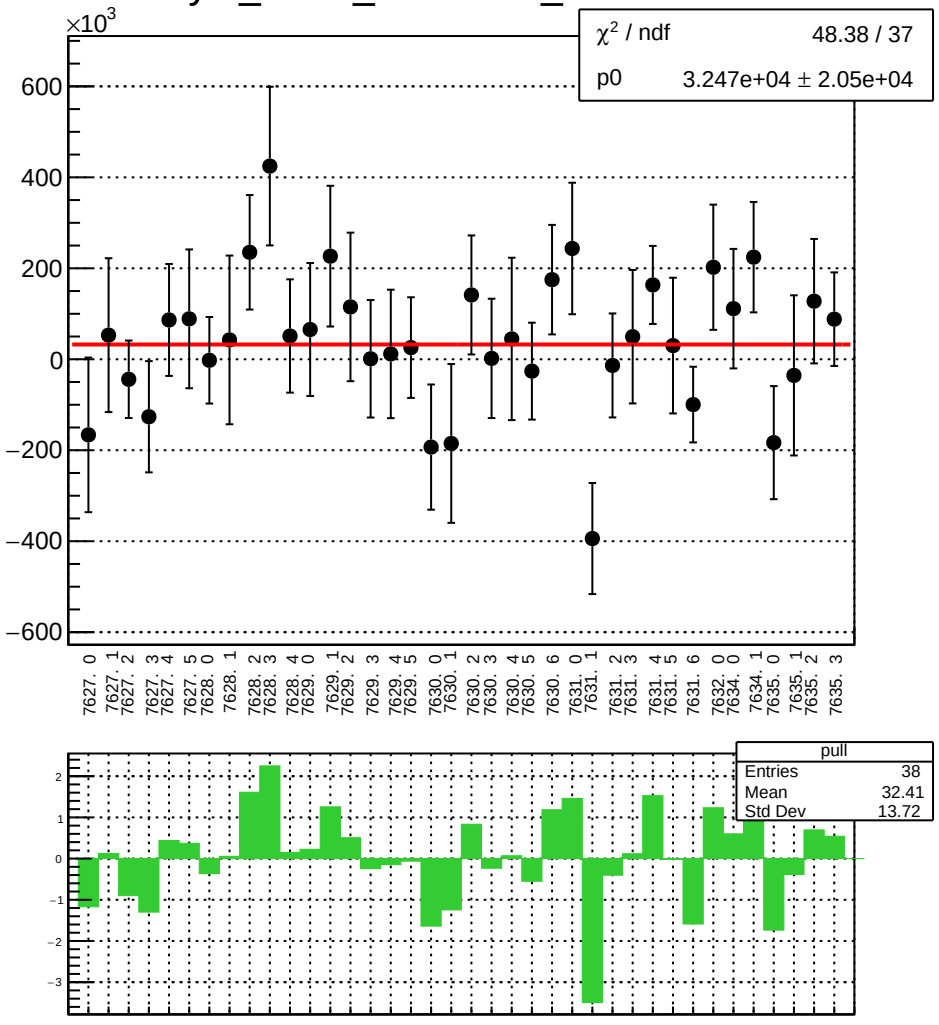

pull1D
Entries 38
Mean −0.02938
Std Dev 1.144

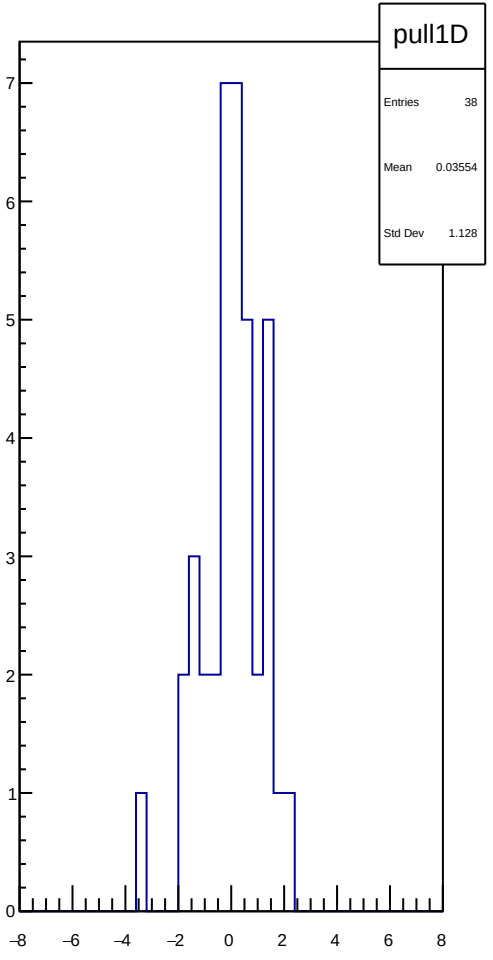

asym_sam4_rms vs run
χ² / ndf 2.948e+04 / 37
p0 1.937e+04 ± 22.57
28000
26000
24000
22000
20000
18000
16000
14000
12000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

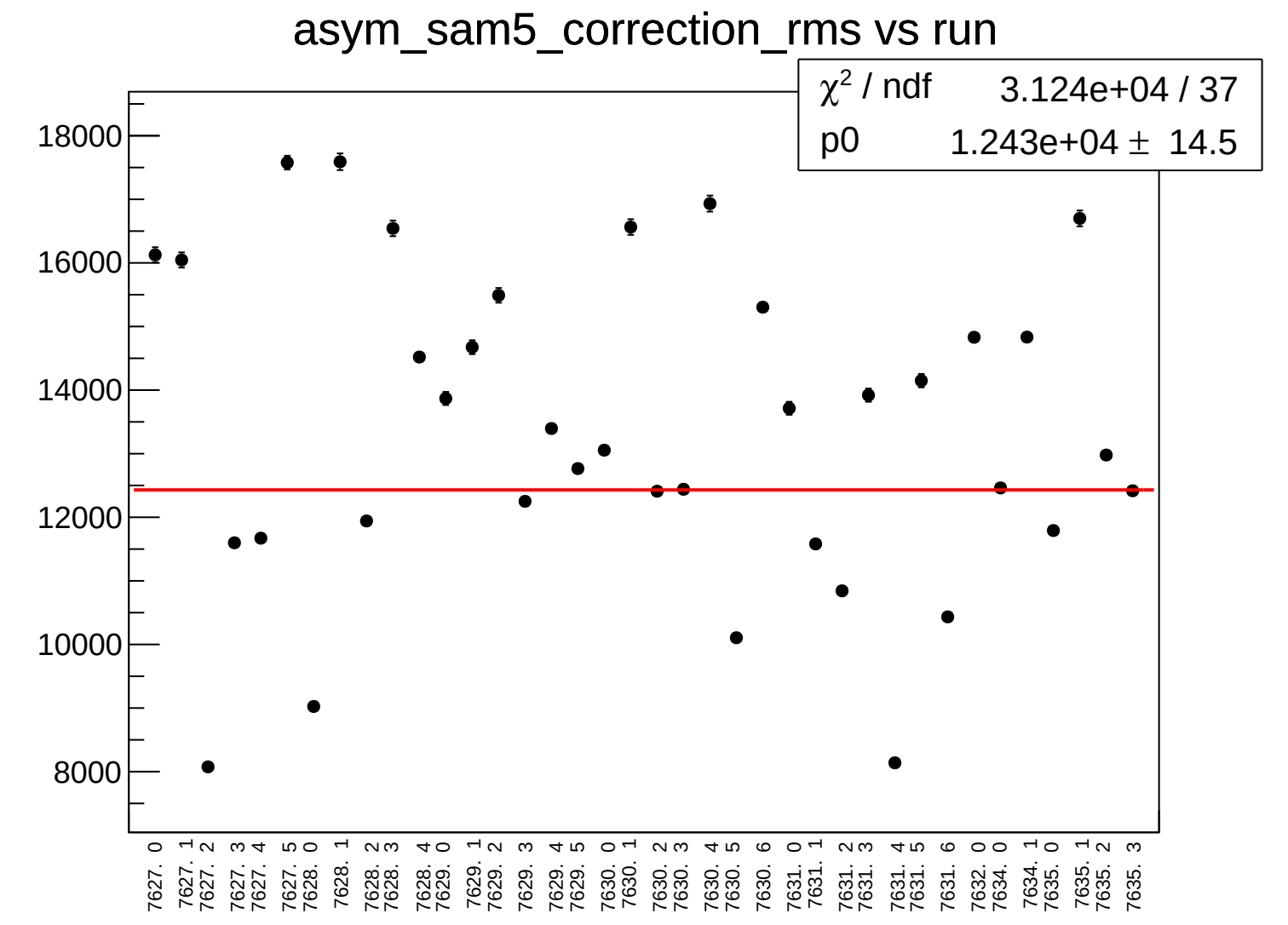

dit_asym_sam5_mean vs run
χ² / ndf 27.68 / 37
p0 185.6 ± 2168
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −31.14
Std Dev 46.9
1.5
1
0.5
0
−0.5
−1
−1.5
−2

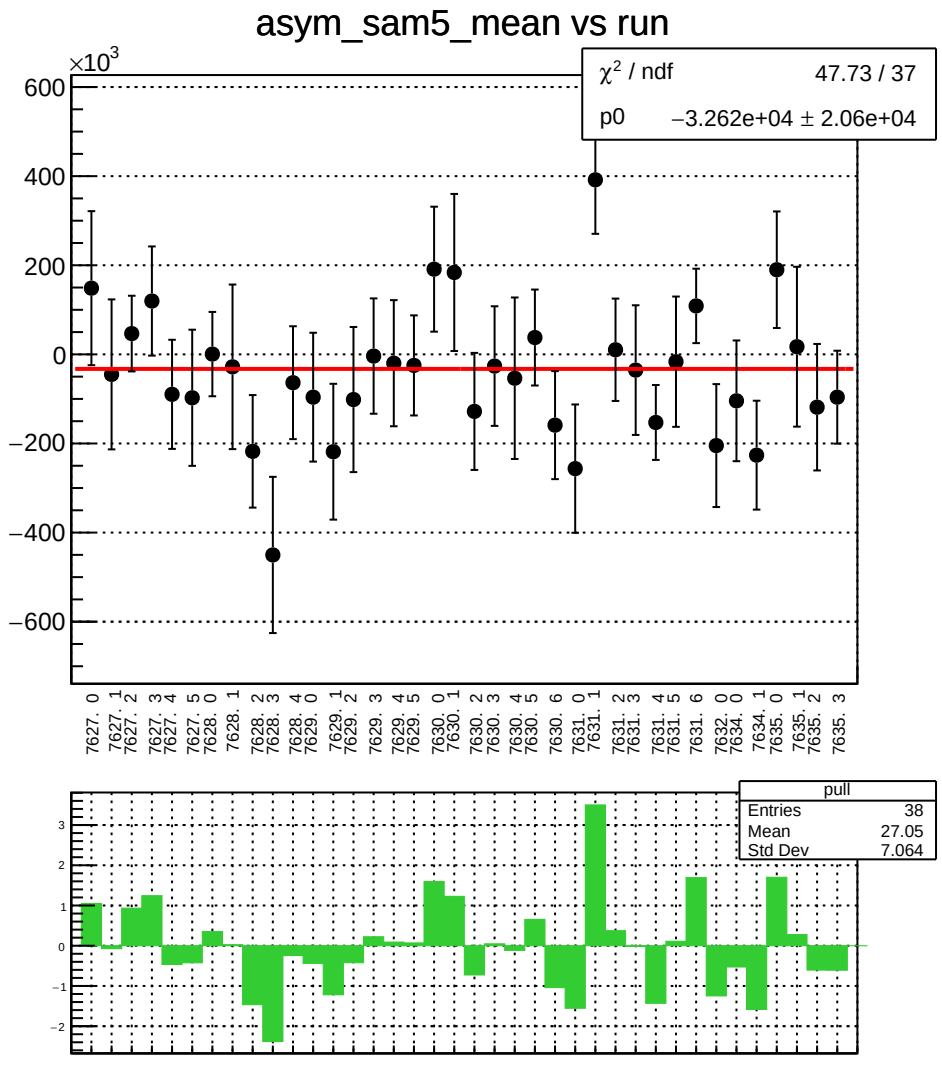

pull1D
Entries 38
Mean −0.03321
Std Dev 0.8528
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

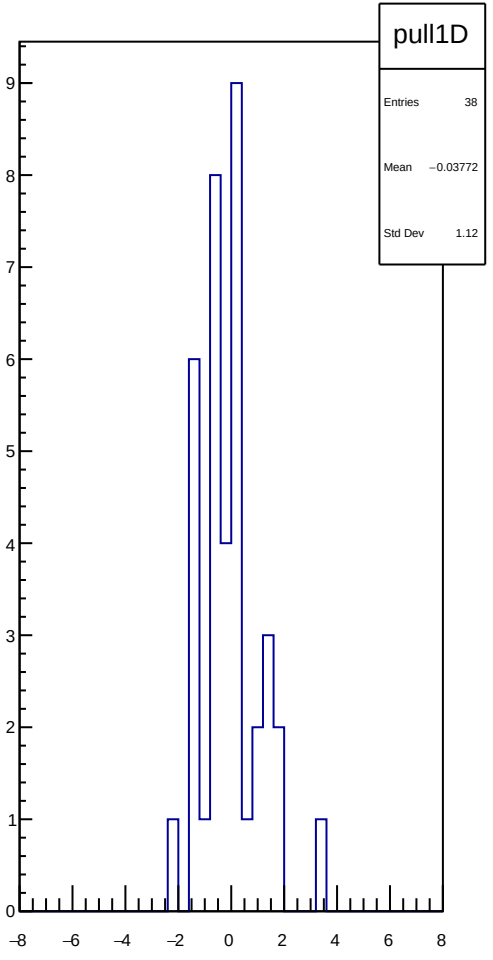

dit_asym_sam5_rms vs run
χ² / ndf 1.715e+04 / 37
p0 1327 ± 1.533
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

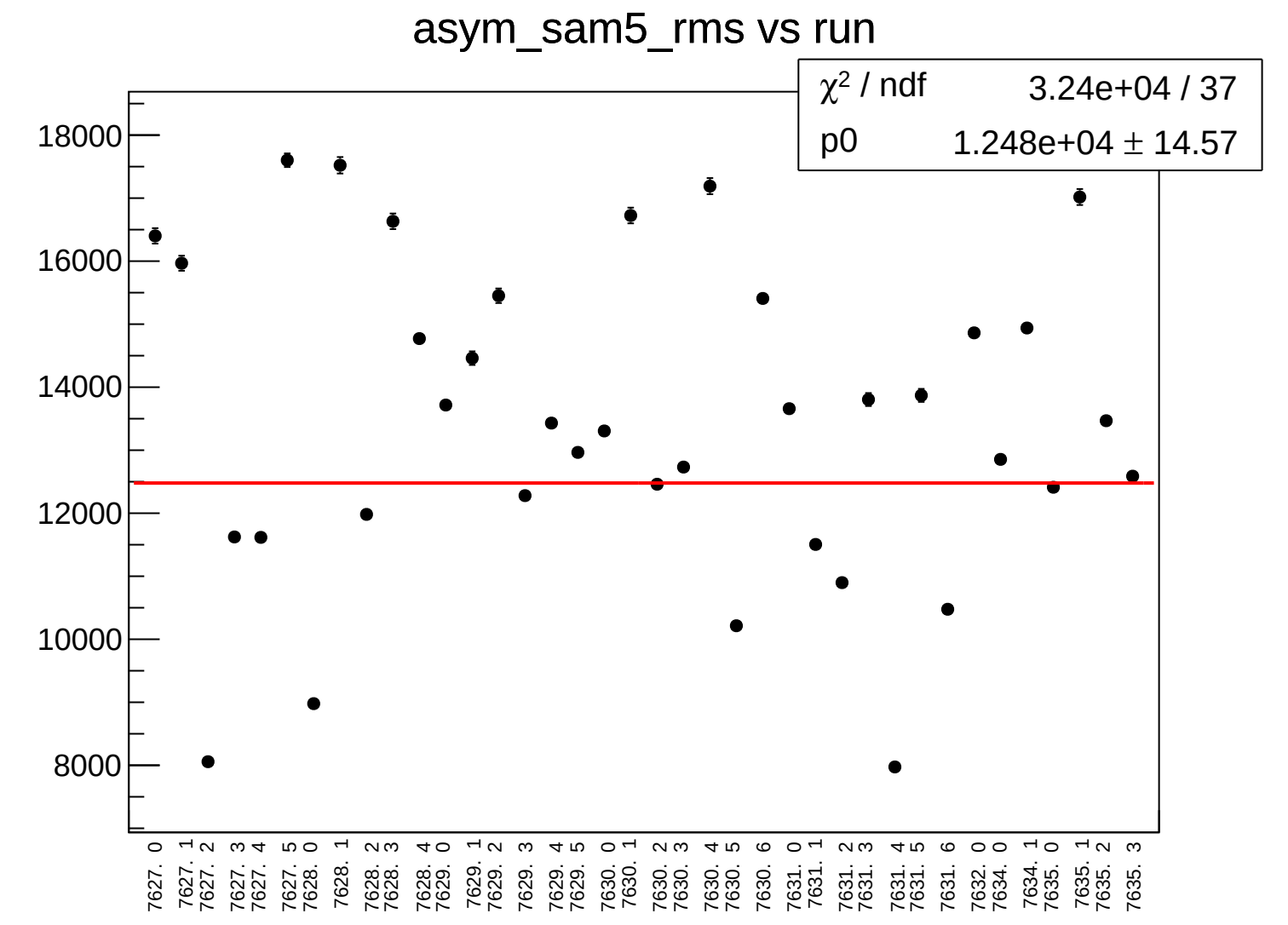

asym_sam5_correction_mean vs run
×10^3
χ² / ndf 48.38 / 37
p0 3.247e+04 ± 2.05e+04
pull
Entries 38
Mean 32.41
Std Dev 13.72

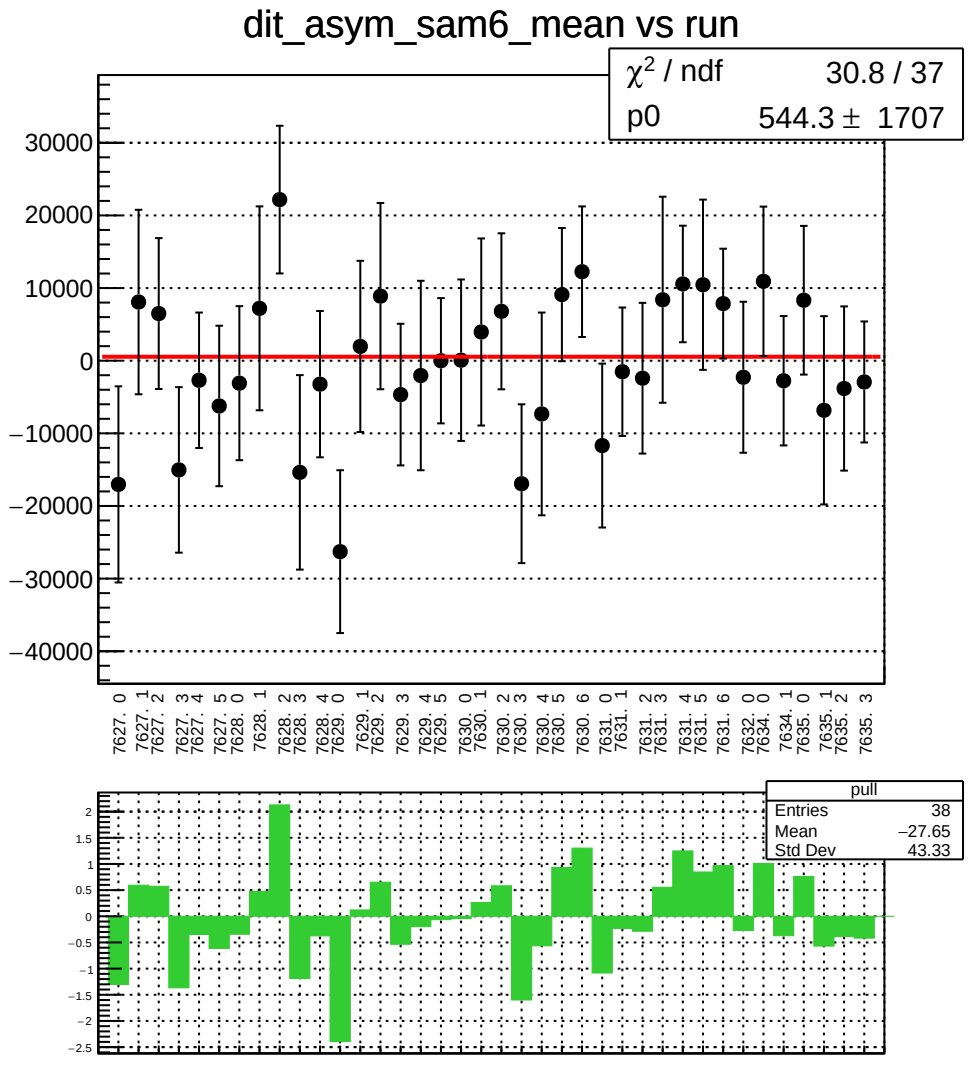

pull1D
Entries 38
Mean 0.03554
Std Dev 1.128

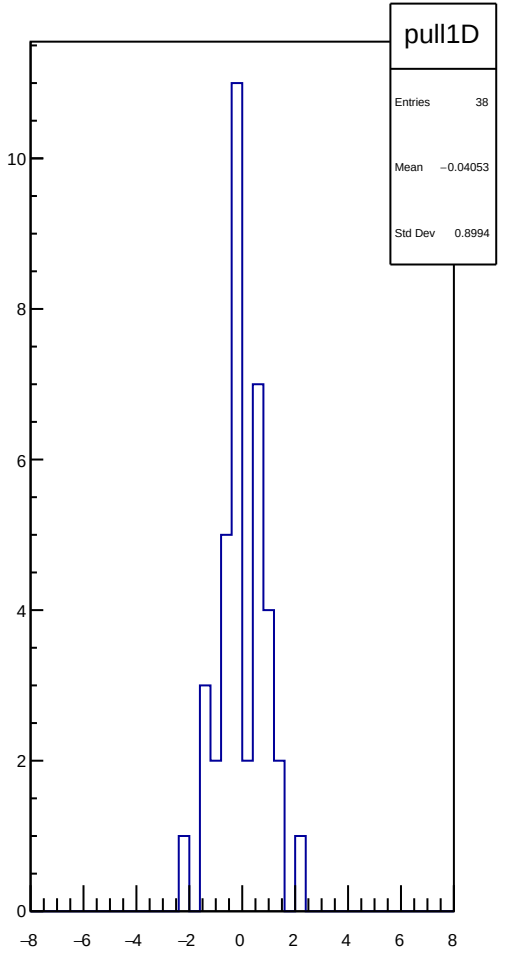

asym_sam5_correction_rms vs run
χ² / ndf 3.124e+04 / 37
p0 1.243e+04 ± 14.5
18000
16000
14000
12000
10000
8000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

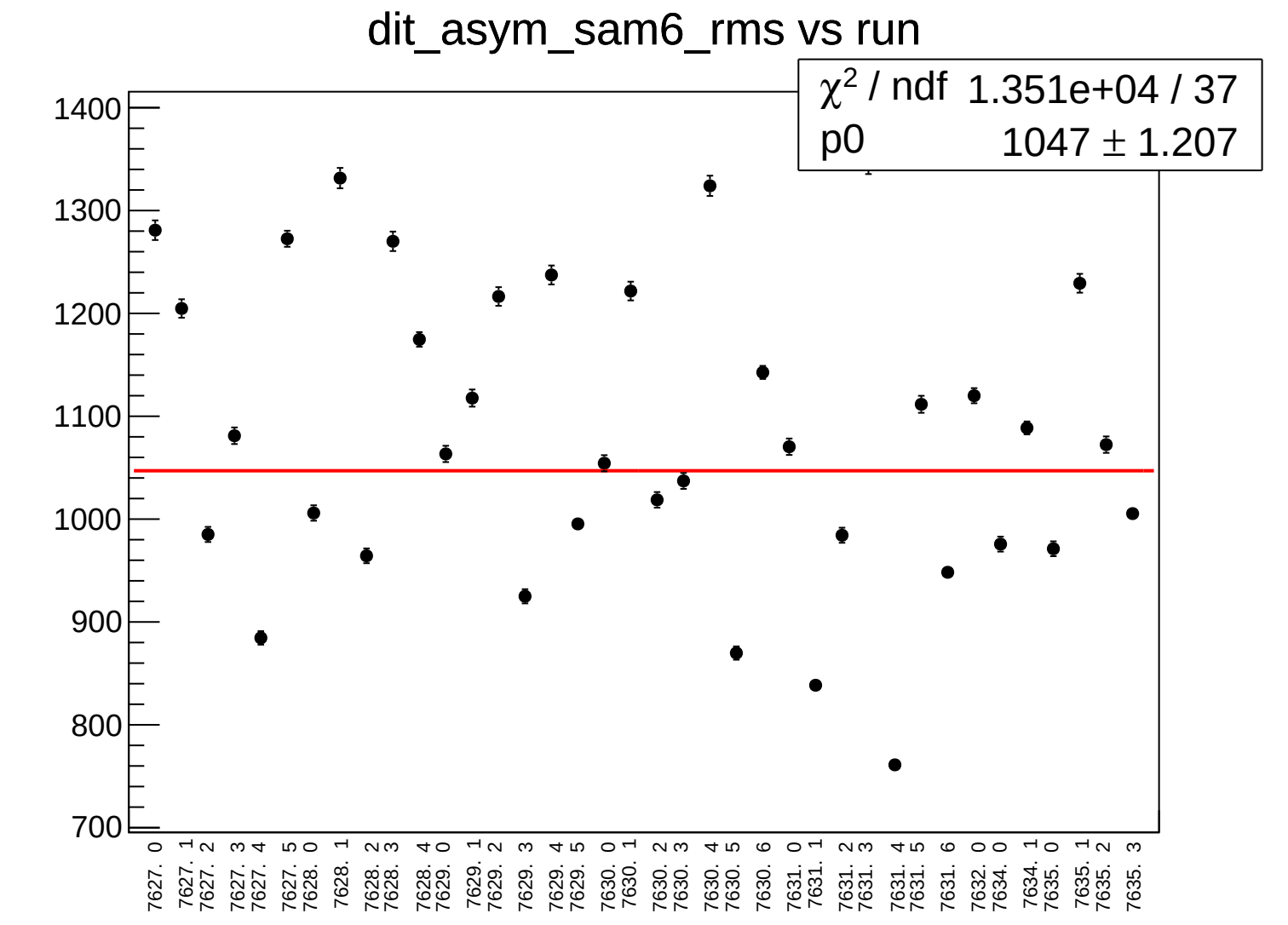

asym_sam5_mean vs run
×10^3
χ² / ndf 47.73 / 37
p0 −3.262e+04 ± 2.06e+04
pull
Entries 38
Mean 27.05
Std Dev 7.064

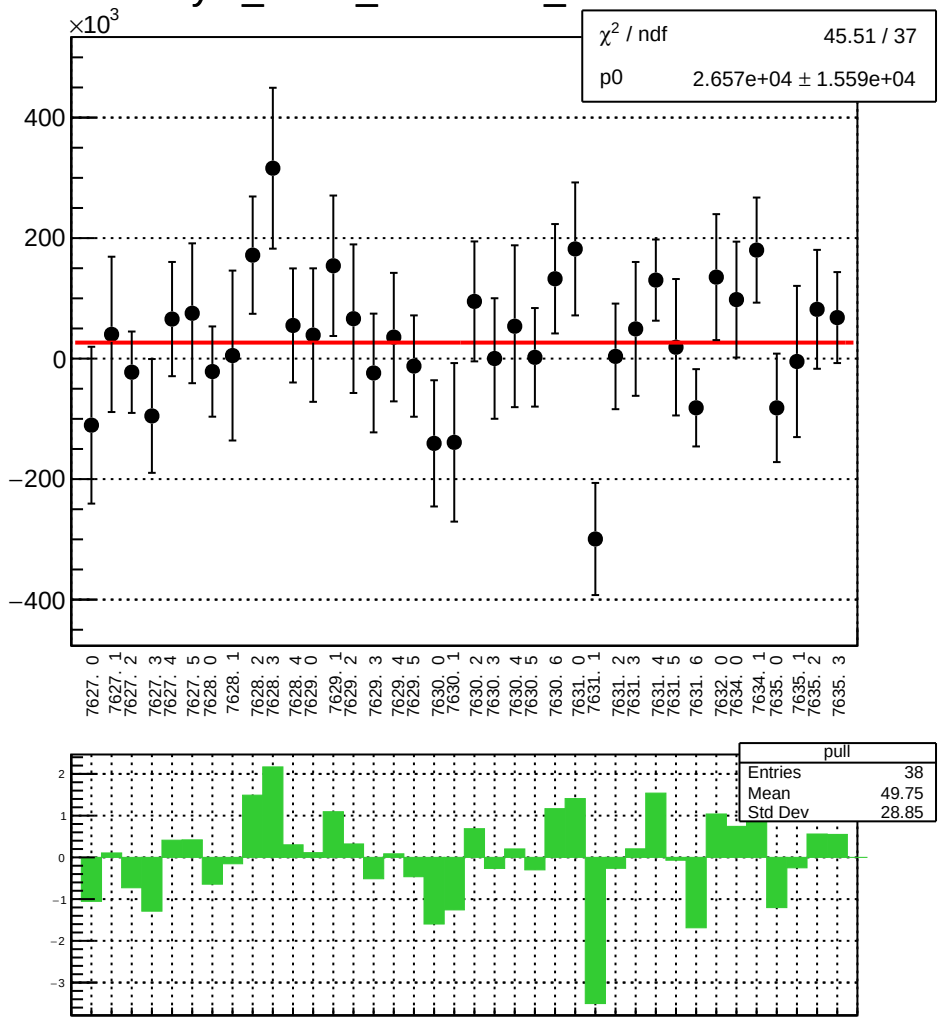

pull1D
Entries 38
Mean −0.03772
Std Dev 1.12

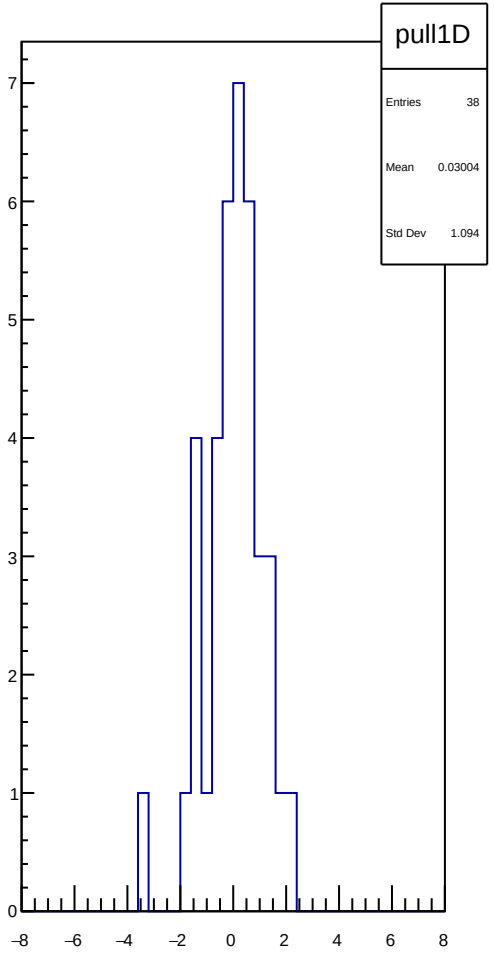

asym_sam5_rms vs run
χ² / ndf 3.24e+04 / 37
p0 1.248e+04 ± 14.57
18000
16000
14000
12000
10000
8000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

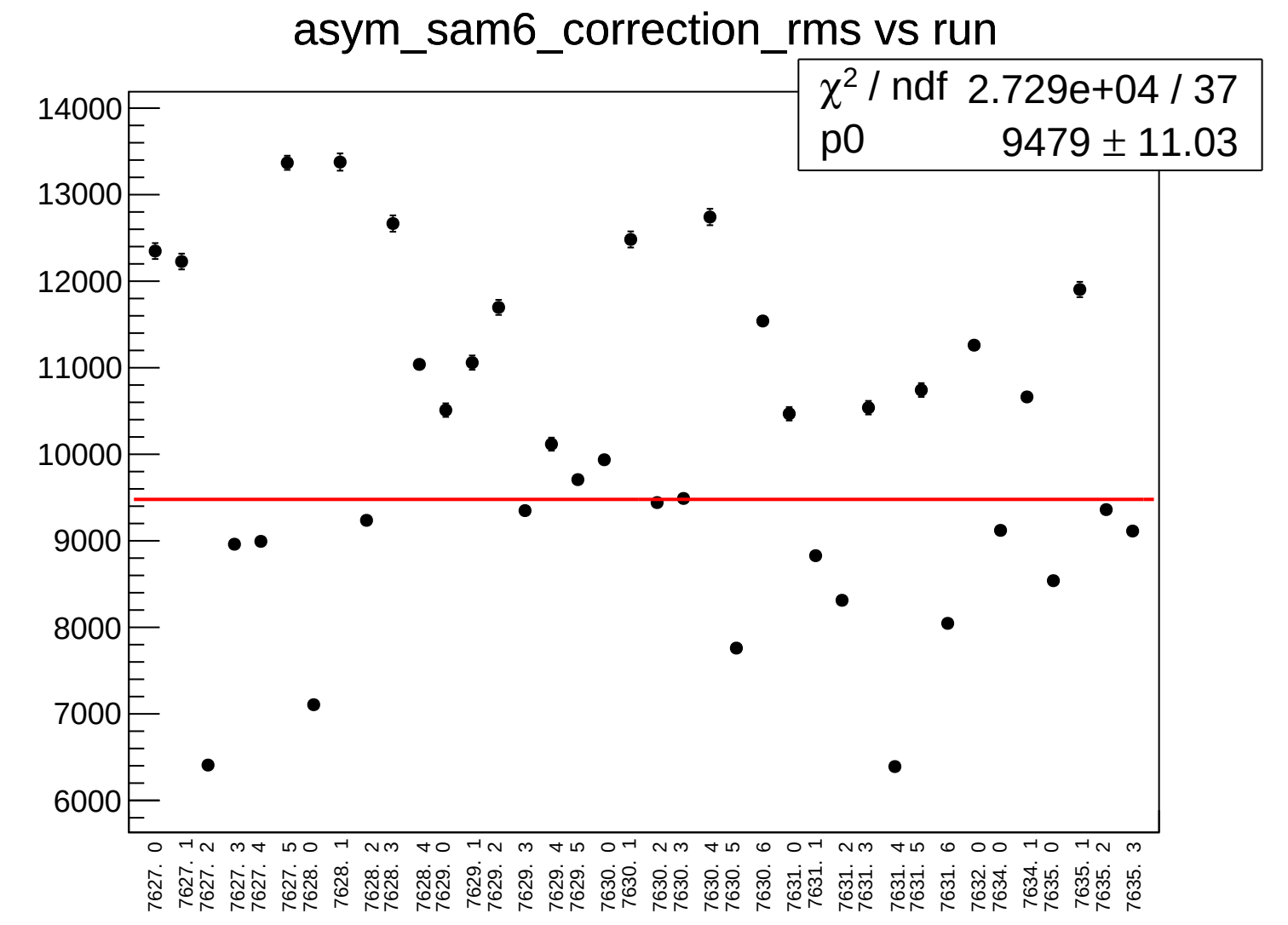

dit_asym_sam6_mean vs run
χ² / ndf 30.8 / 37
p0 544.3 ± 1707
30000
20000
10000
0
−10000
−20000
−30000
−40000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −27.65
Std Dev 43.33
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

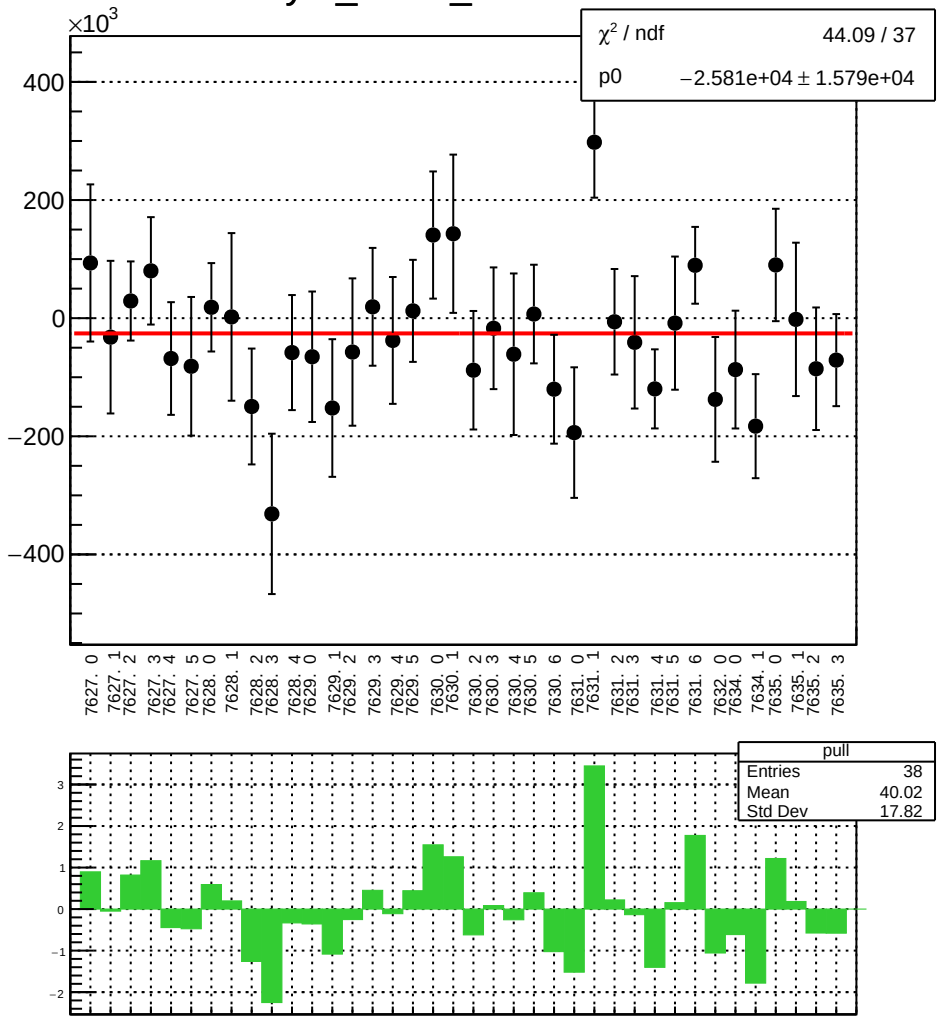

pull1D
Entries 38
Mean −0.04053
Std Dev 0.8994
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

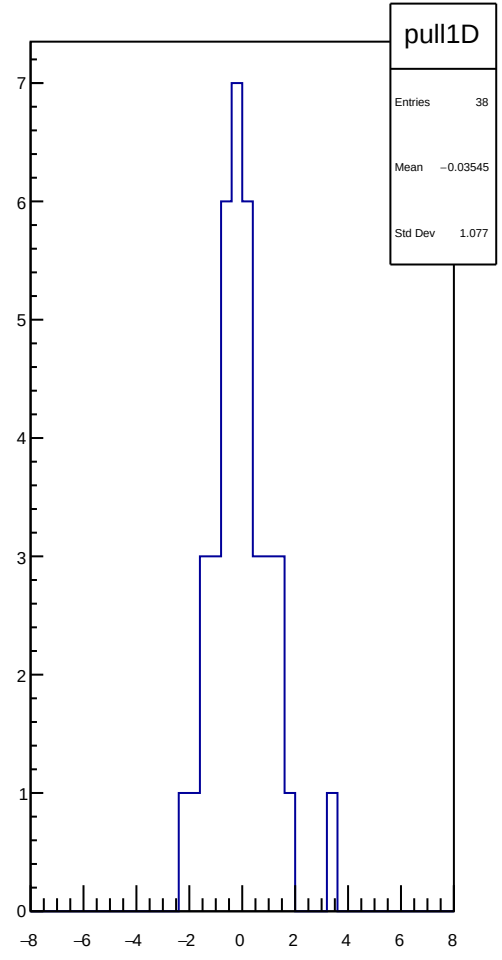

dit_asym_sam6_rms vs run
χ² / ndf 1.351e+04 / 37
p0 1047 ± 1.207
1400
1300
1200
1100
1000
900
800
700
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

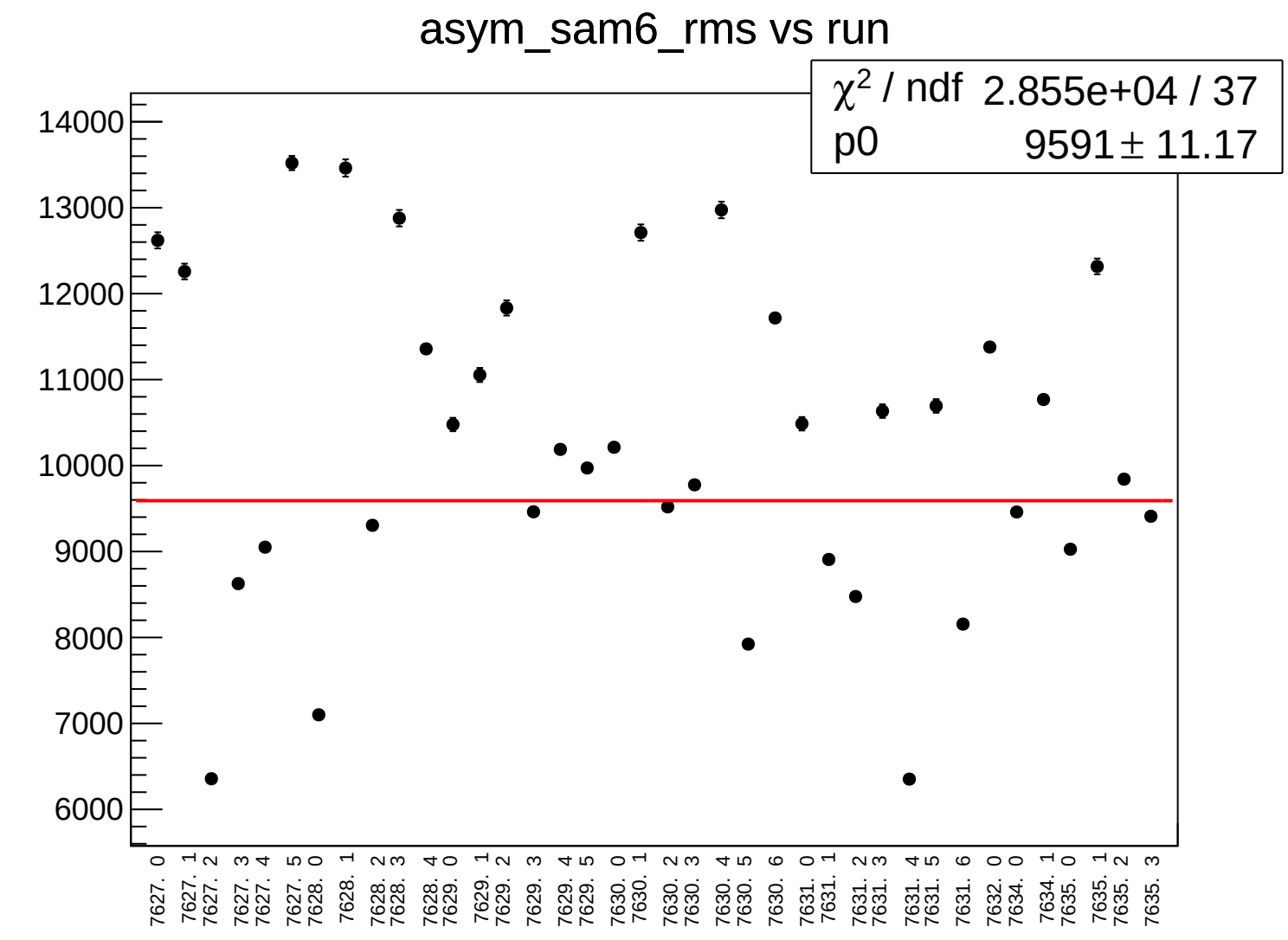

asym_sam6_correction_mean vs run
×10^3
χ² / ndf 45.51 / 37
p0 2.657e+04 ± 1.559e+04
400
200
0
−200
−400
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 49.75
Std Dev 28.85
2
1
0
−1
−2
−3

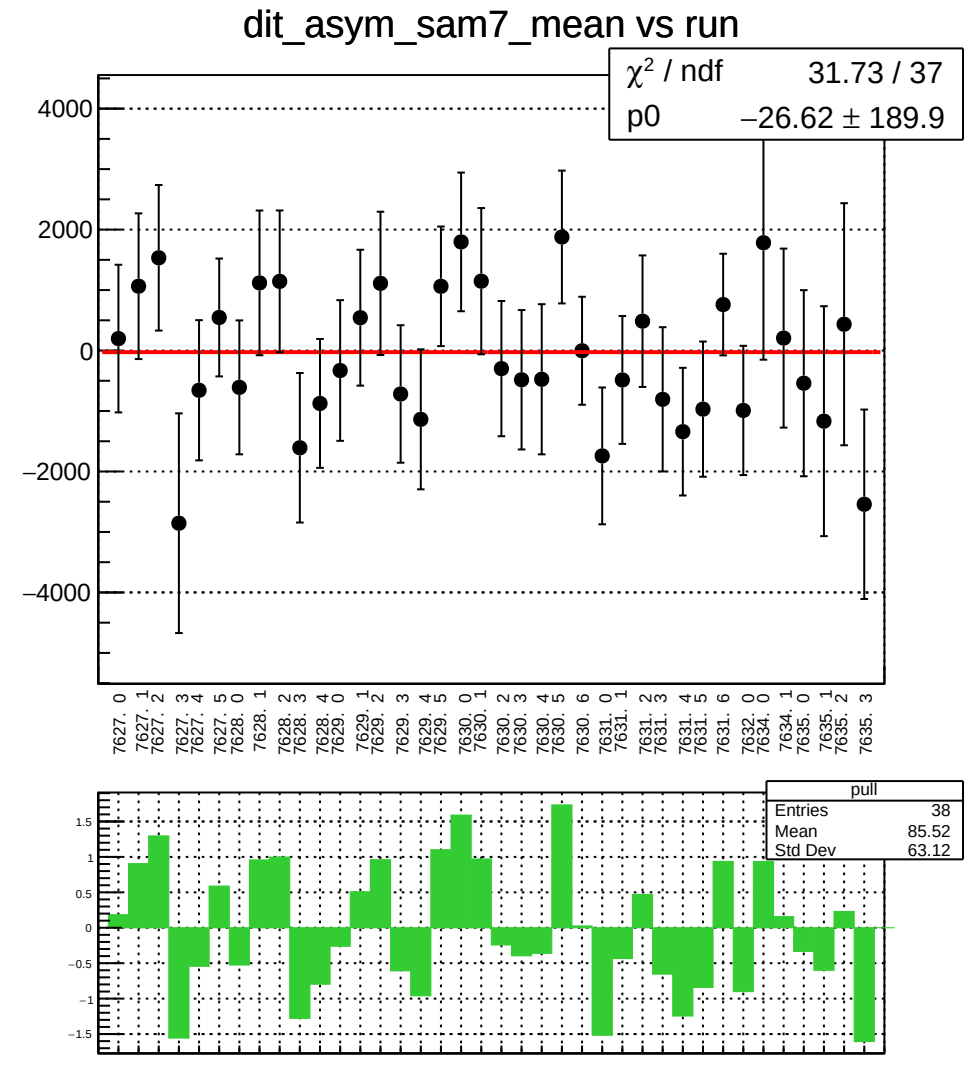

pull1D
Entries 38
Mean 0.03004
Std Dev 1.094
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

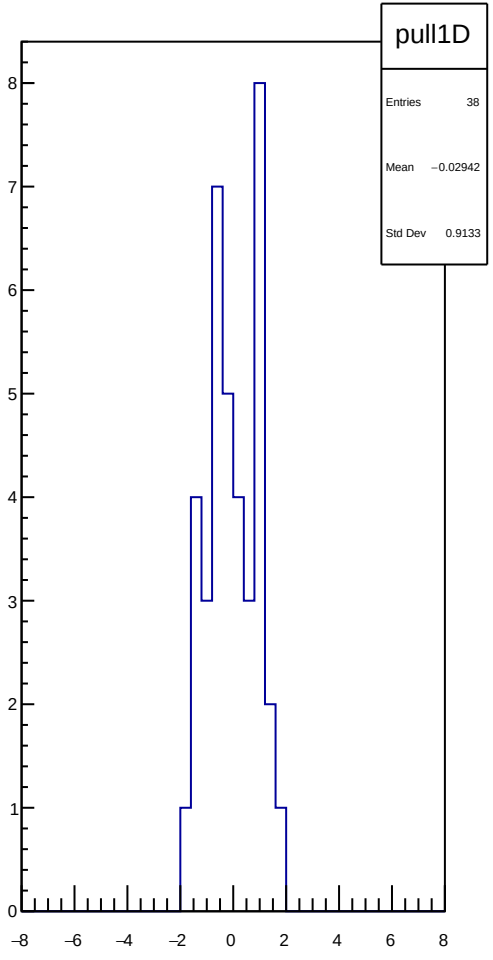

asym_sam6_correction_rms vs run
χ² / ndf 2.729e+04 / 37
p0 9479 ± 11.03
14000
13000
12000
11000
10000
9000
8000
7000
6000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

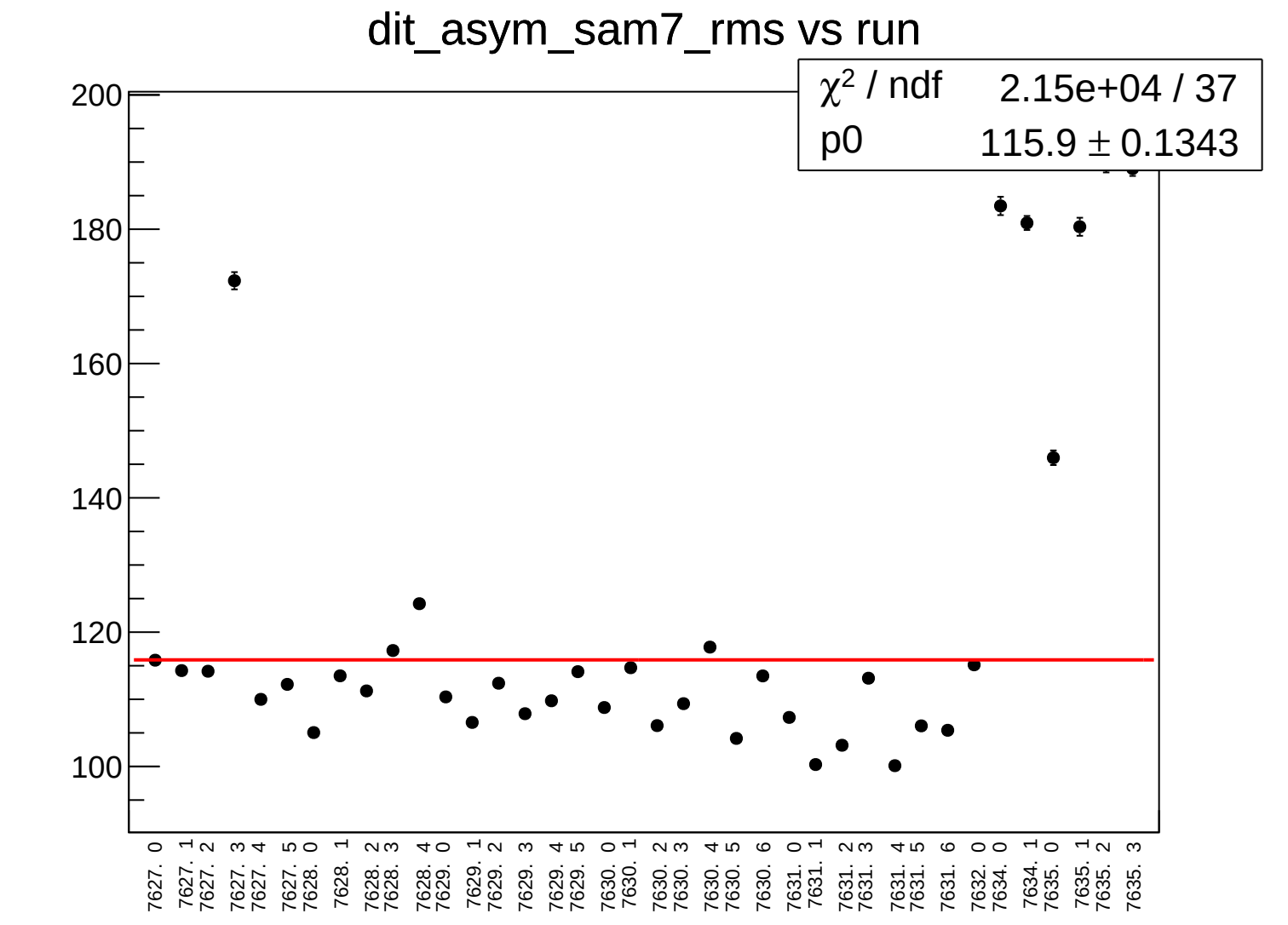

asym_sam6_mean vs run
×10^3
400
200
0
−200
−400
χ² / ndf 44.09 / 37
p0 −2.581e+04 ± 1.579e+04
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 40.02
Std Dev 17.82
3
2
1
0
−1
−2

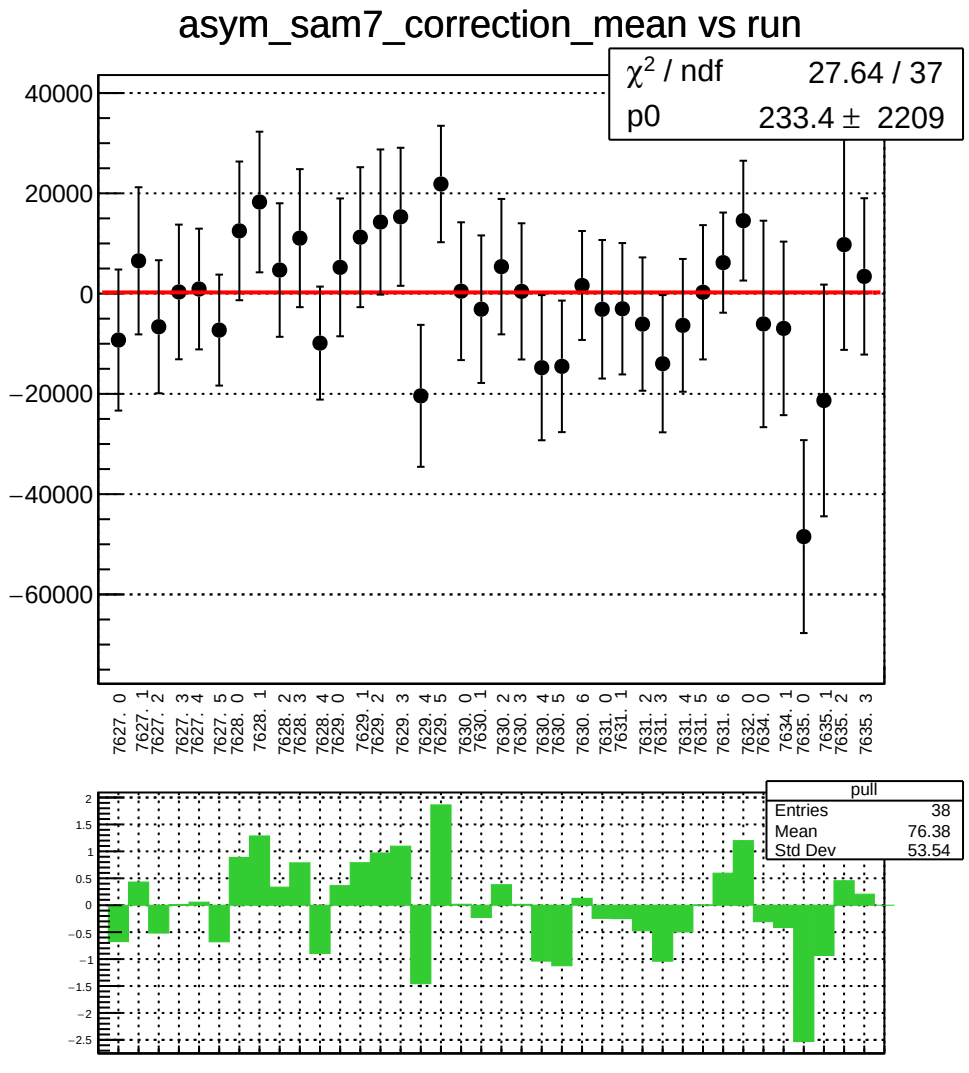

pull1D
Entries 38
Mean −0.03545
Std Dev 1.077
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

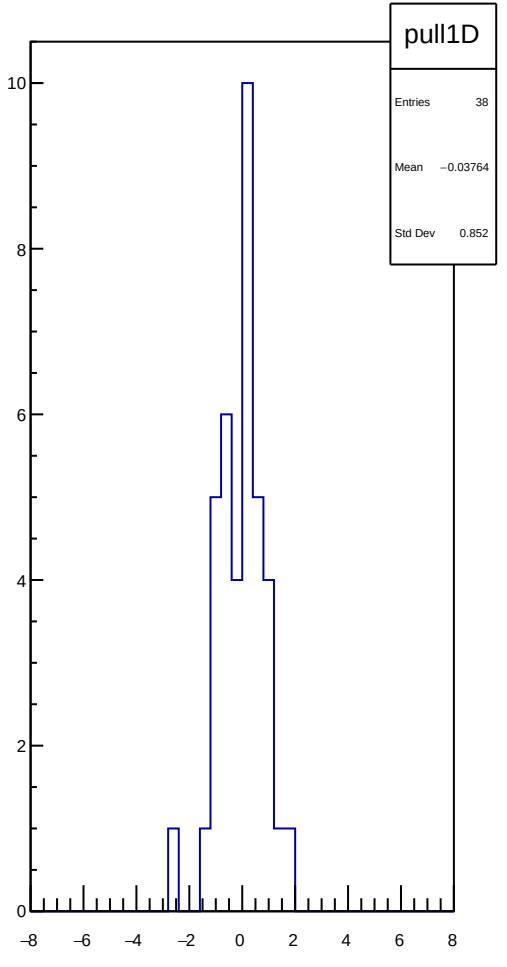

asym_sam6_rms vs run
χ² / ndf 2.855e+04 / 37
p0 9591 ± 11.17
14000
13000
12000
11000
10000
9000
8000
7000
6000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

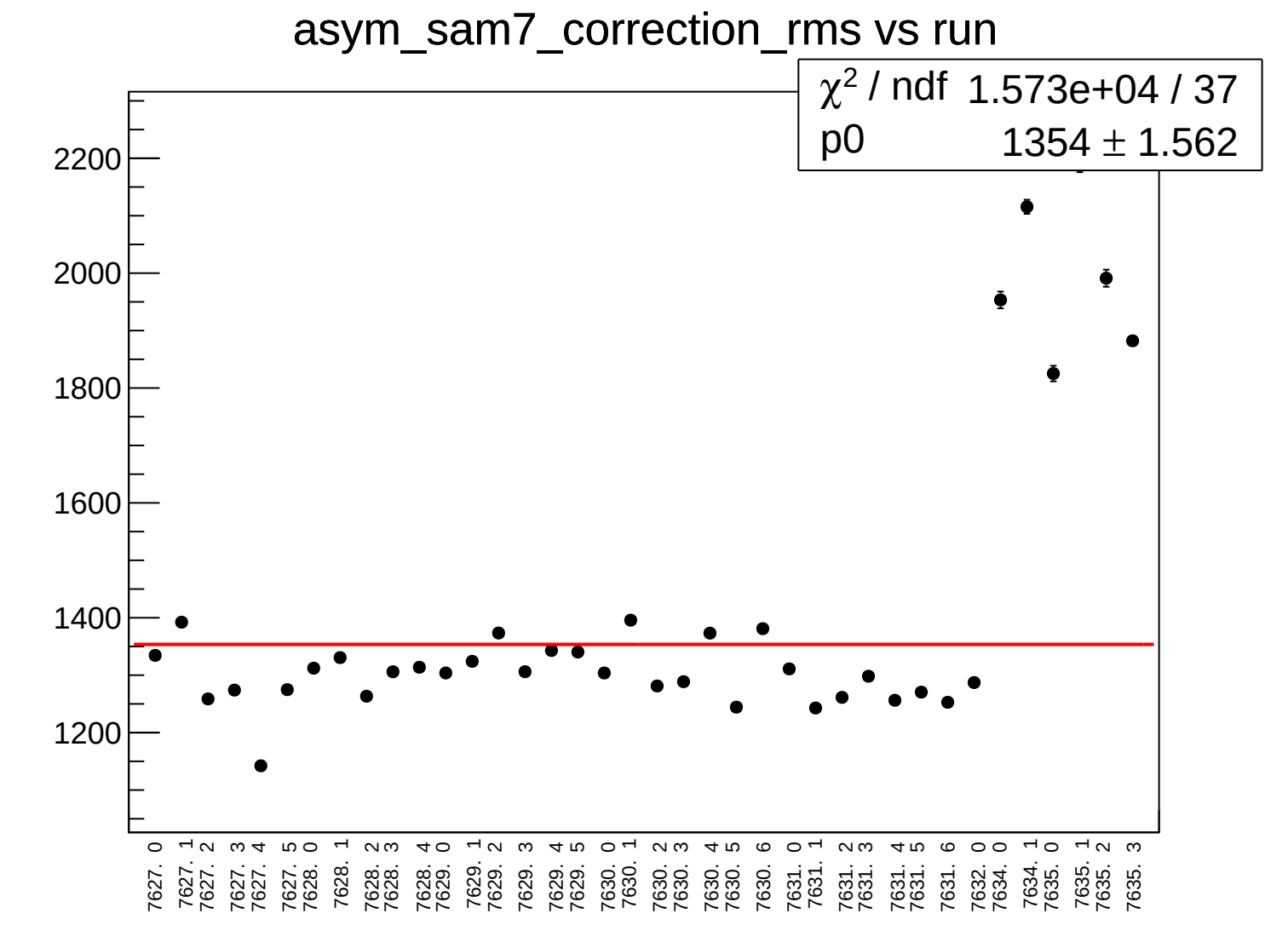

dit_asym_sam7_mean vs run
χ² / ndf 31.73 / 37
p0 −26.62 ± 189.9
4000
2000
0
−2000
−4000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 85.52
Std Dev 63.12
1.5
1
0.5
0
−0.5
−1
−1.5

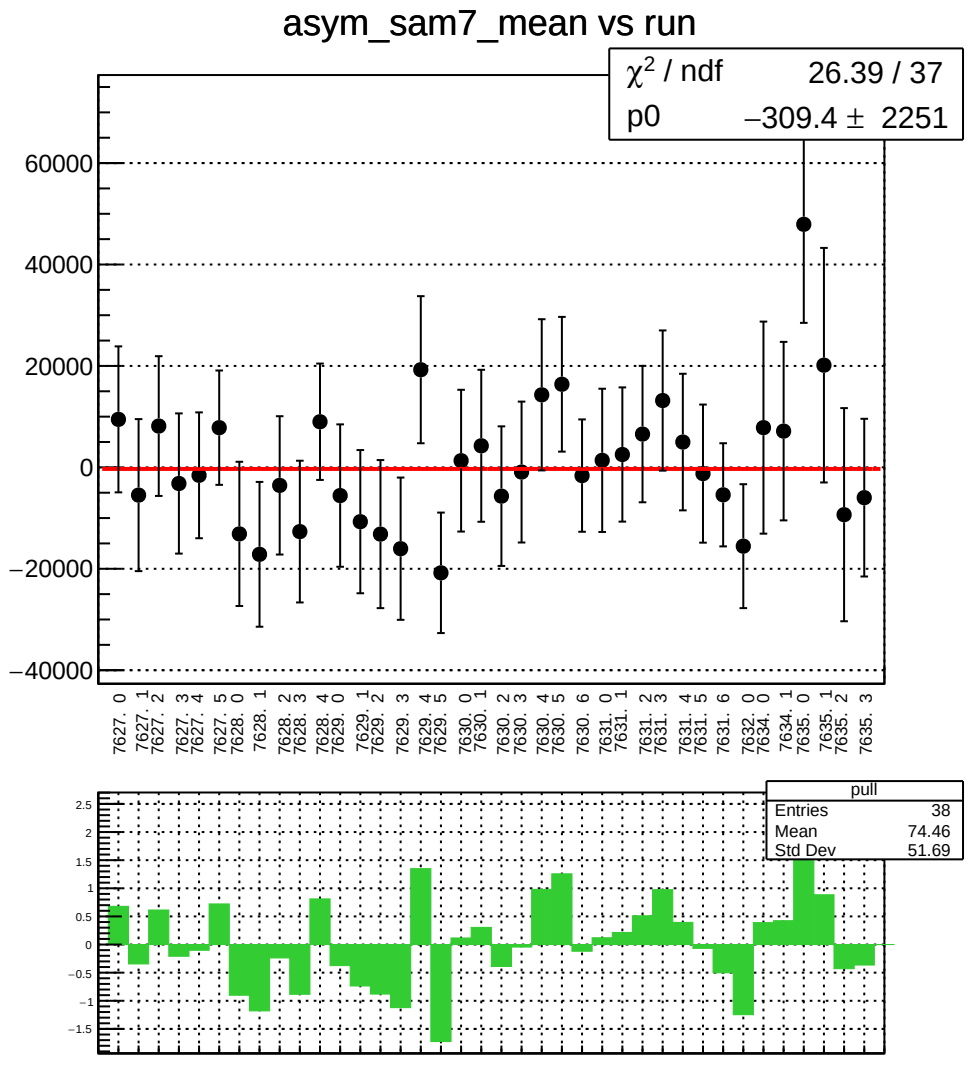

pull1D
Entries 38
Mean −0.02942
Std Dev 0.9133
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

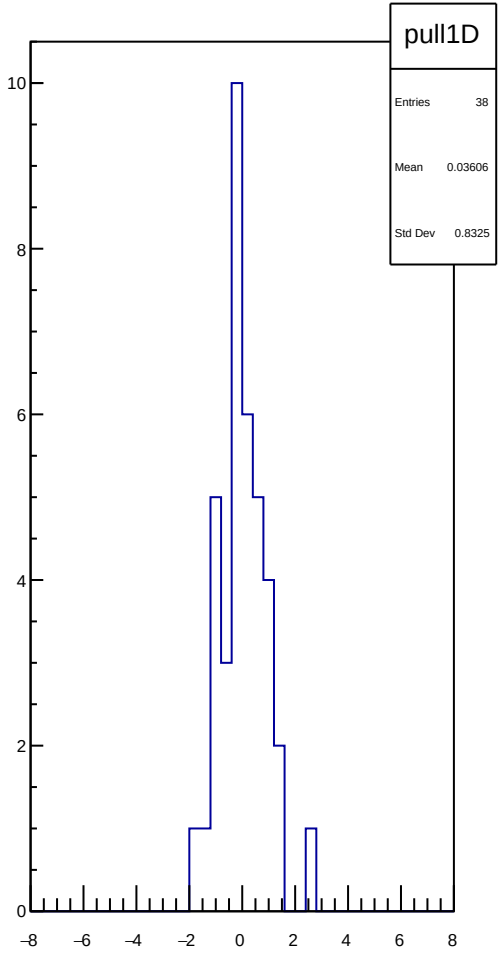

dit_asym_sam7_rms vs run
χ² / ndf 2.15e+04 / 37
p0 115.9 ± 0.1343
200
180
160
140
120
100
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

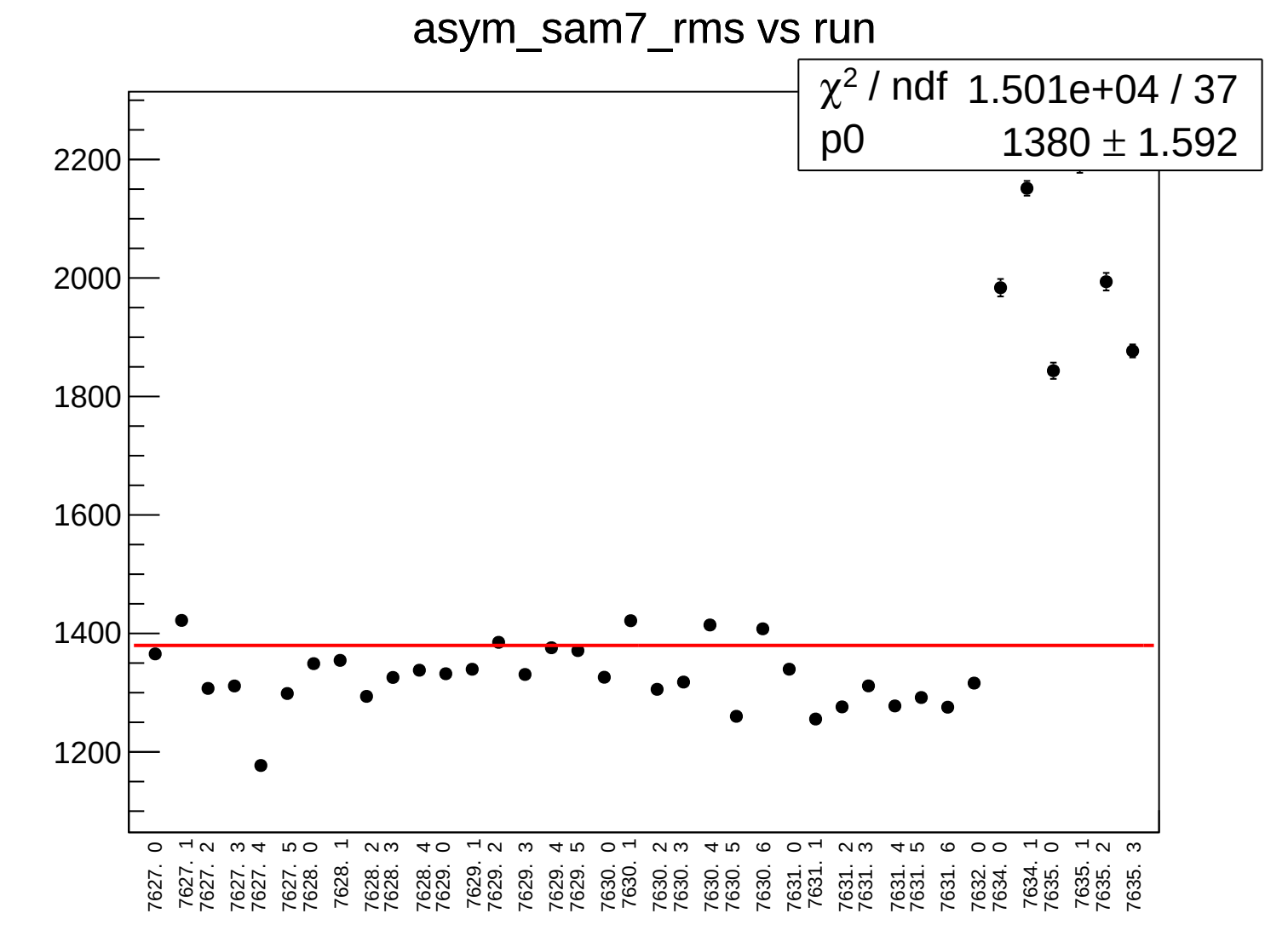

asym_sam7_correction_mean vs run
χ² / ndf 27.64 / 37
p0 233.4 ± 2209
40000
20000
0
−20000
−40000
−60000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 76.38
Std Dev 53.54
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

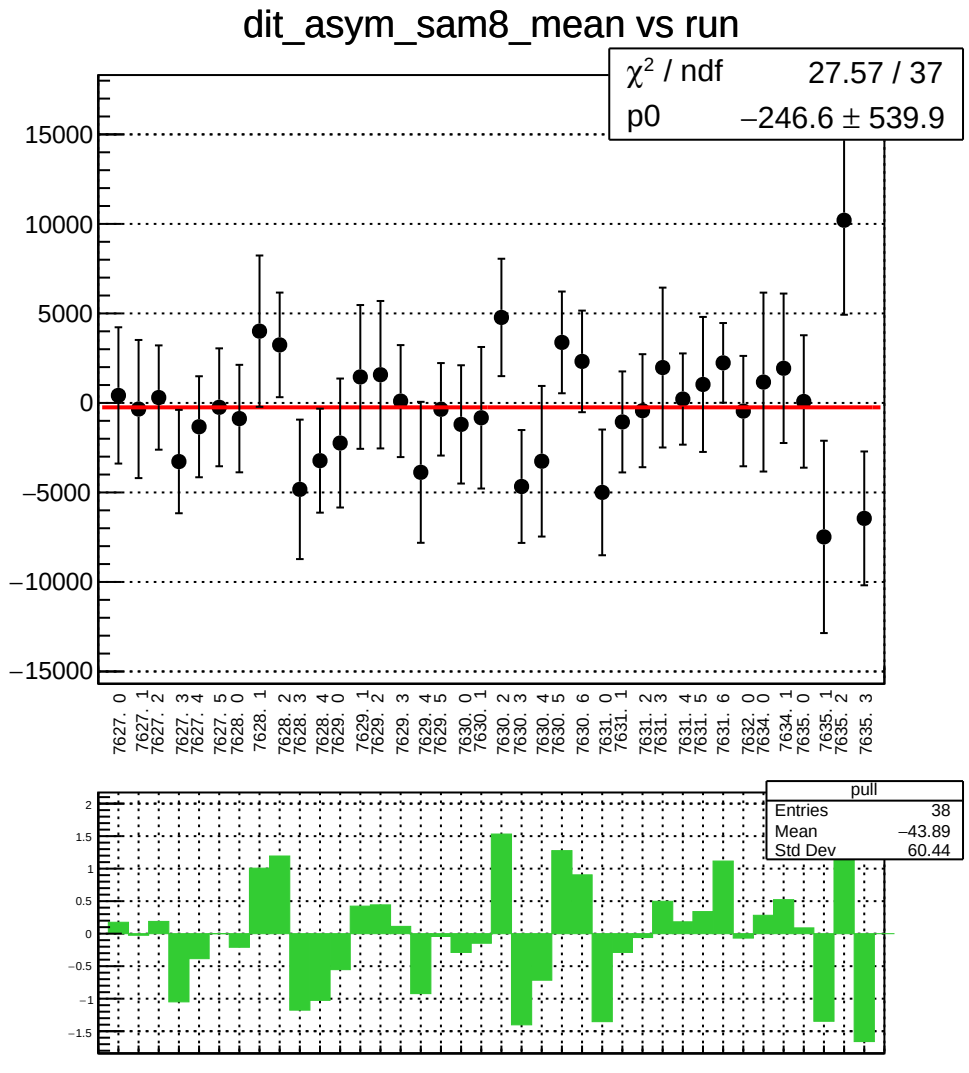

pull1D
Entries 38
Mean −0.03764
Std Dev 0.852
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

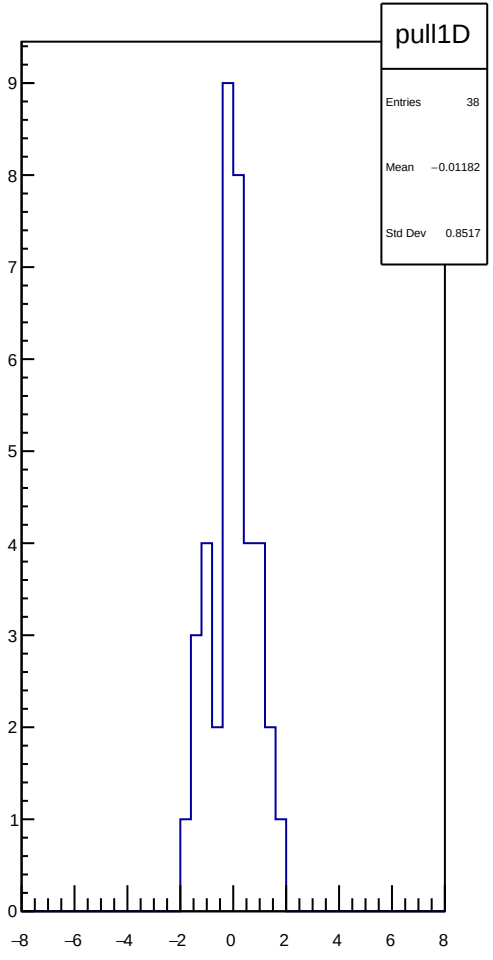

asym_sam7_correction_rms vs run
χ² / ndf 1.573e+04 / 37
p0 1354 ± 1.562
2200
2000
1800
1600
1400
1200
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

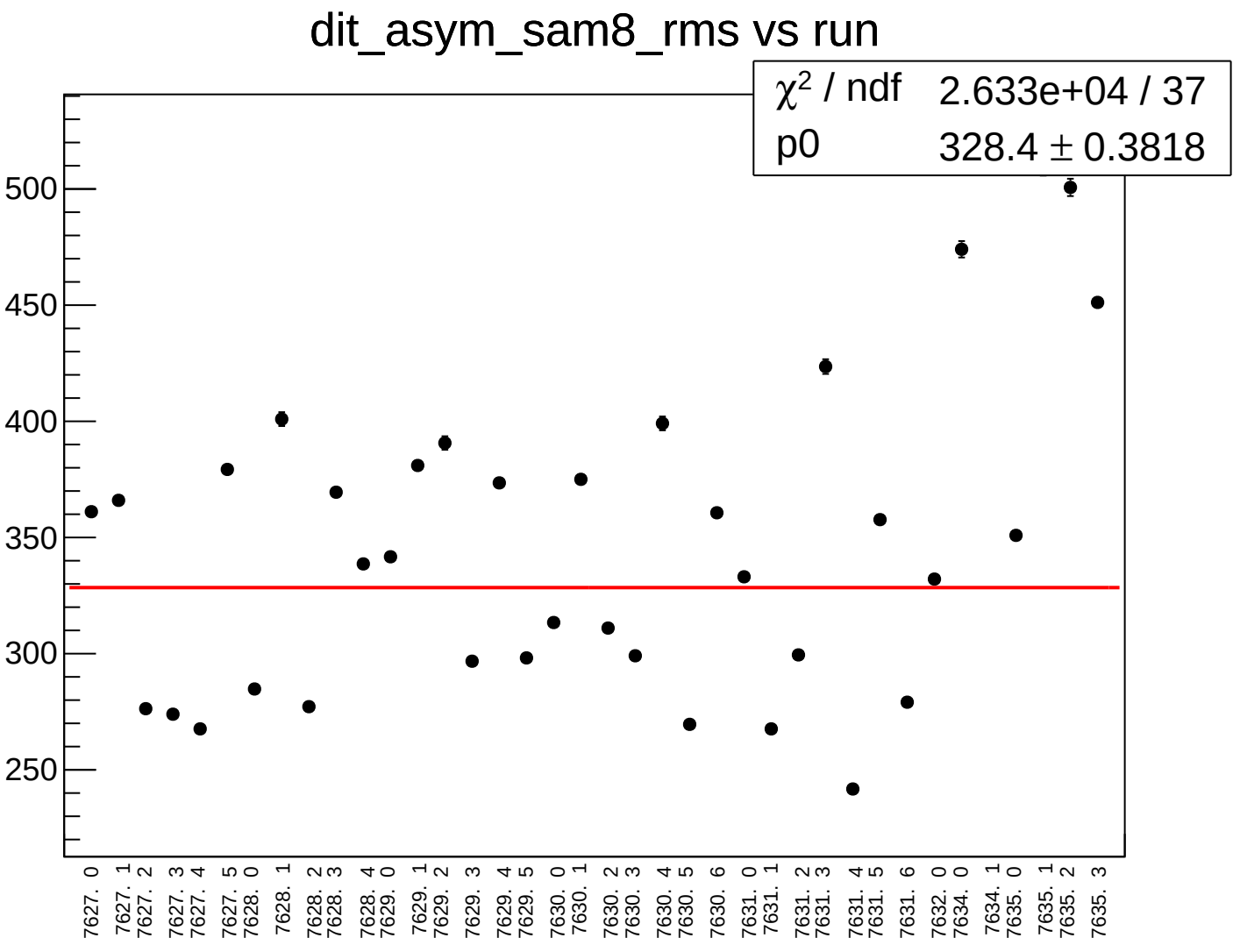

asym_sam7_mean vs run
χ² / ndf 26.39 / 37
p0 −309.4 ± 2251
60000
40000
20000
0
−20000
−40000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 74.46
Std Dev 51.69
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

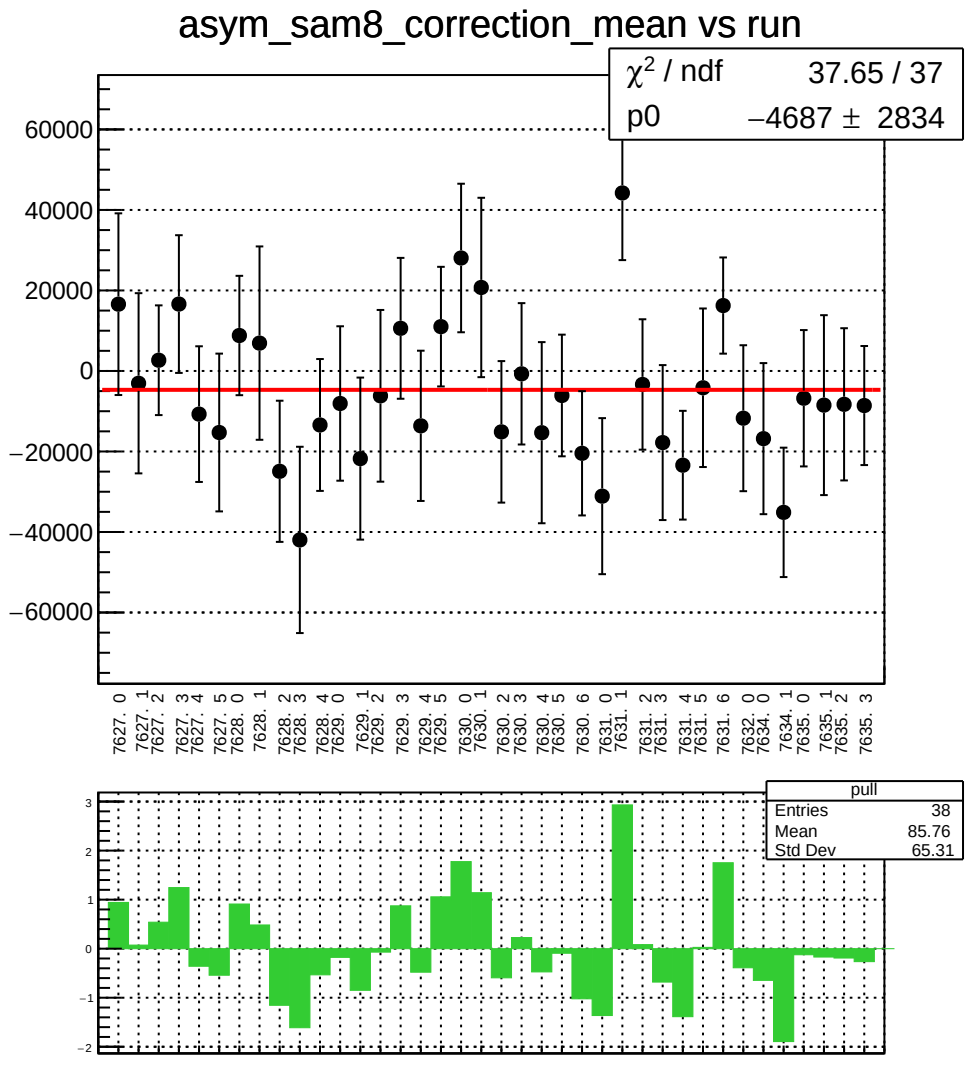

pull1D
Entries 38
Mean 0.03606
Std Dev 0.8325
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

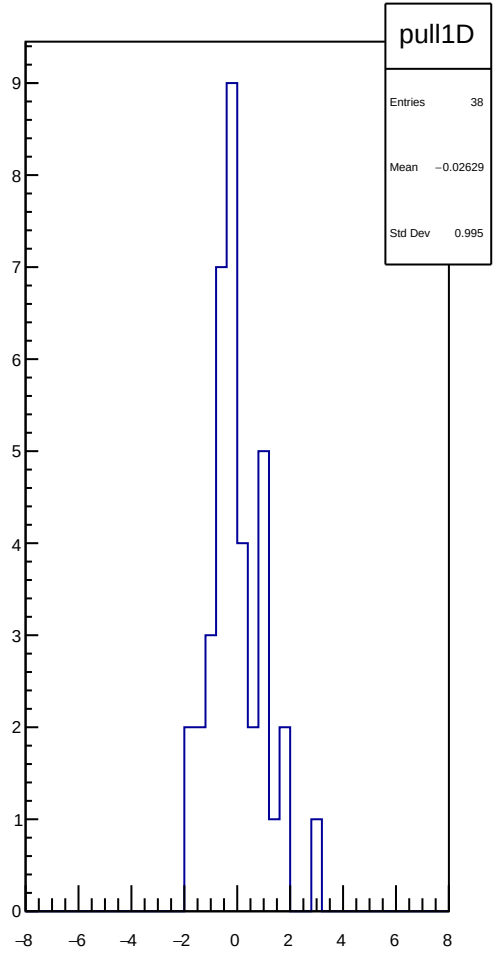

asym_sam7_rms vs run
χ² / ndf 1.501e+04 / 37
p0 1380 ± 1.592
2200
2000
1800
1600
1400
1200
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

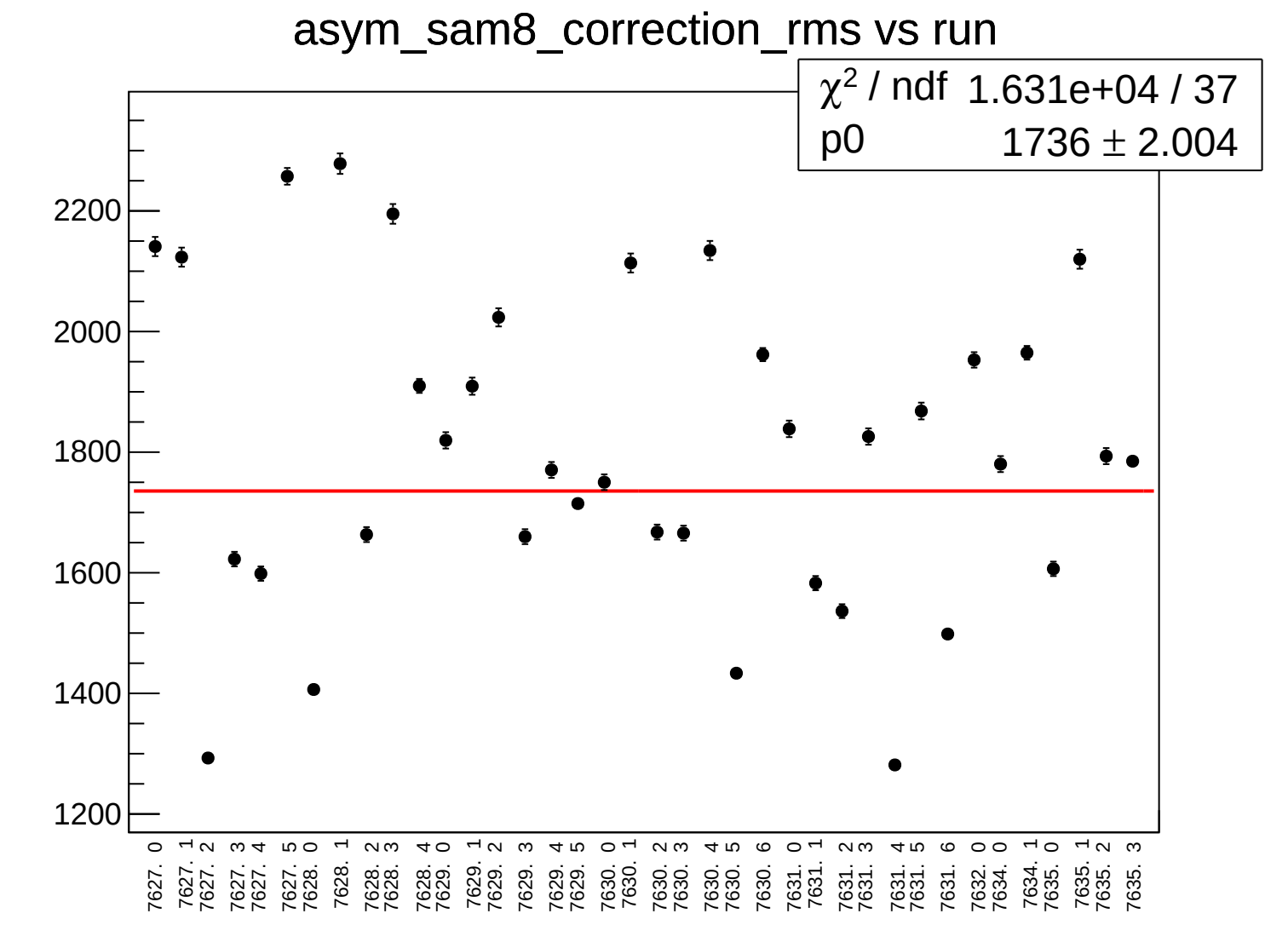

dit_asym_sam8_mean vs run
χ² / ndf 27.57 / 37
p0 −246.6 ± 539.9
15000
10000
5000
0
−5000
−10000
−15000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −43.89
Std Dev 60.44
2
1.5
1
0.5
0
−0.5
−1
−1.5

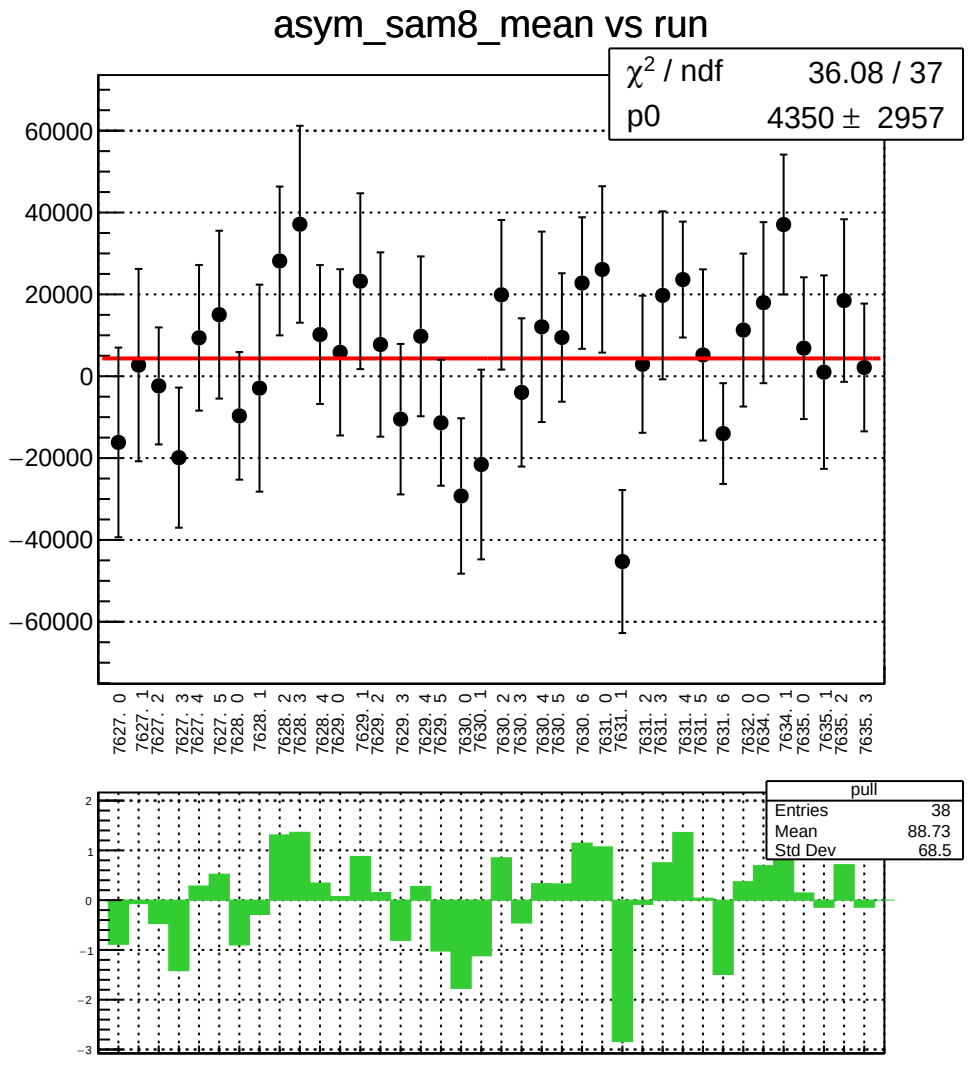

pull1D
Entries 38
Mean −0.01182
Std Dev 0.8517
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

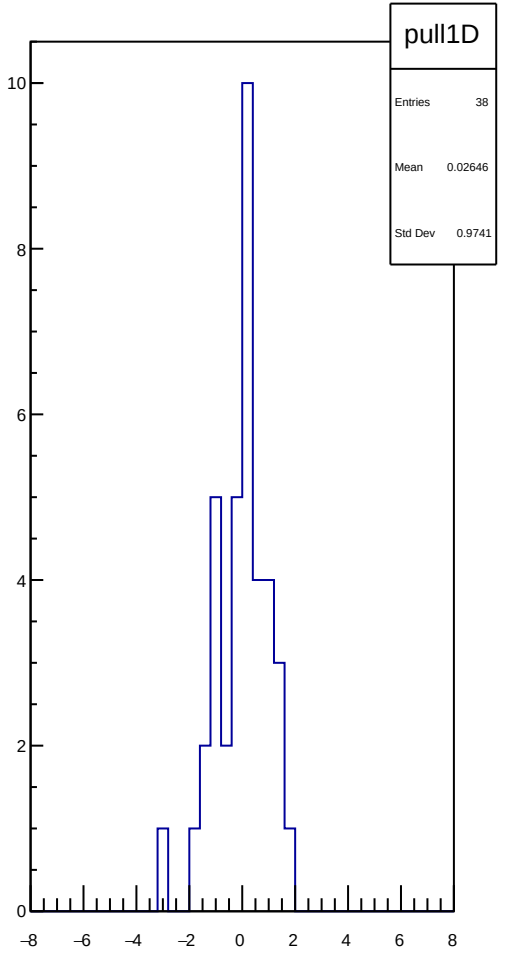

dit_asym_sam8_rms vs run
χ² / ndf 2.633e+04 / 37
p0 328.4 ± 0.3818
500
450
400
350
300
250
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

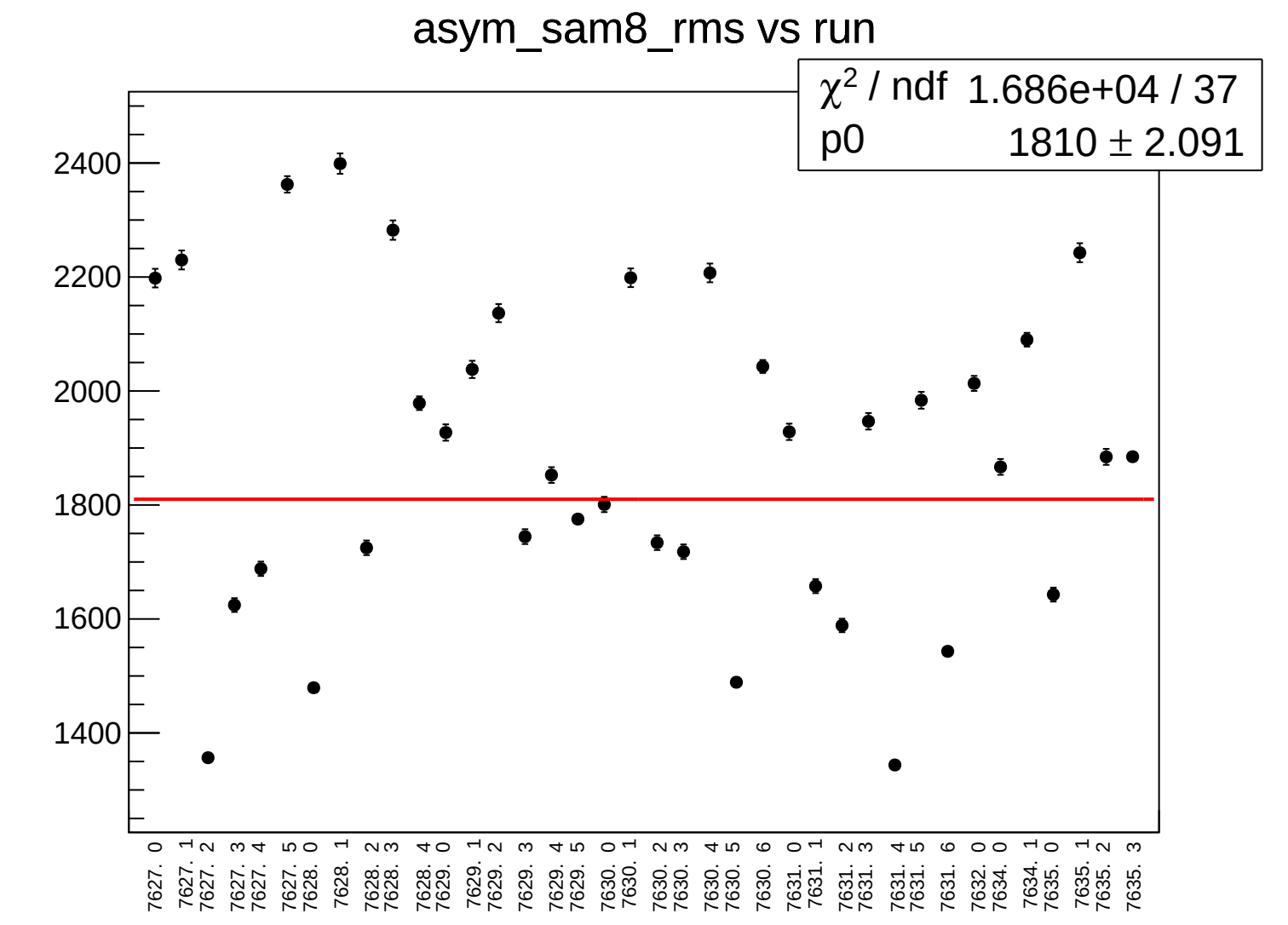

asym_sam8_correction_mean vs run
χ² / ndf 37.65 / 37
p0 −4687 ± 2834
60000
40000
20000
0
−20000
−40000
−60000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 85.76
Std Dev 65.31
3
2
1
0
−1
−2

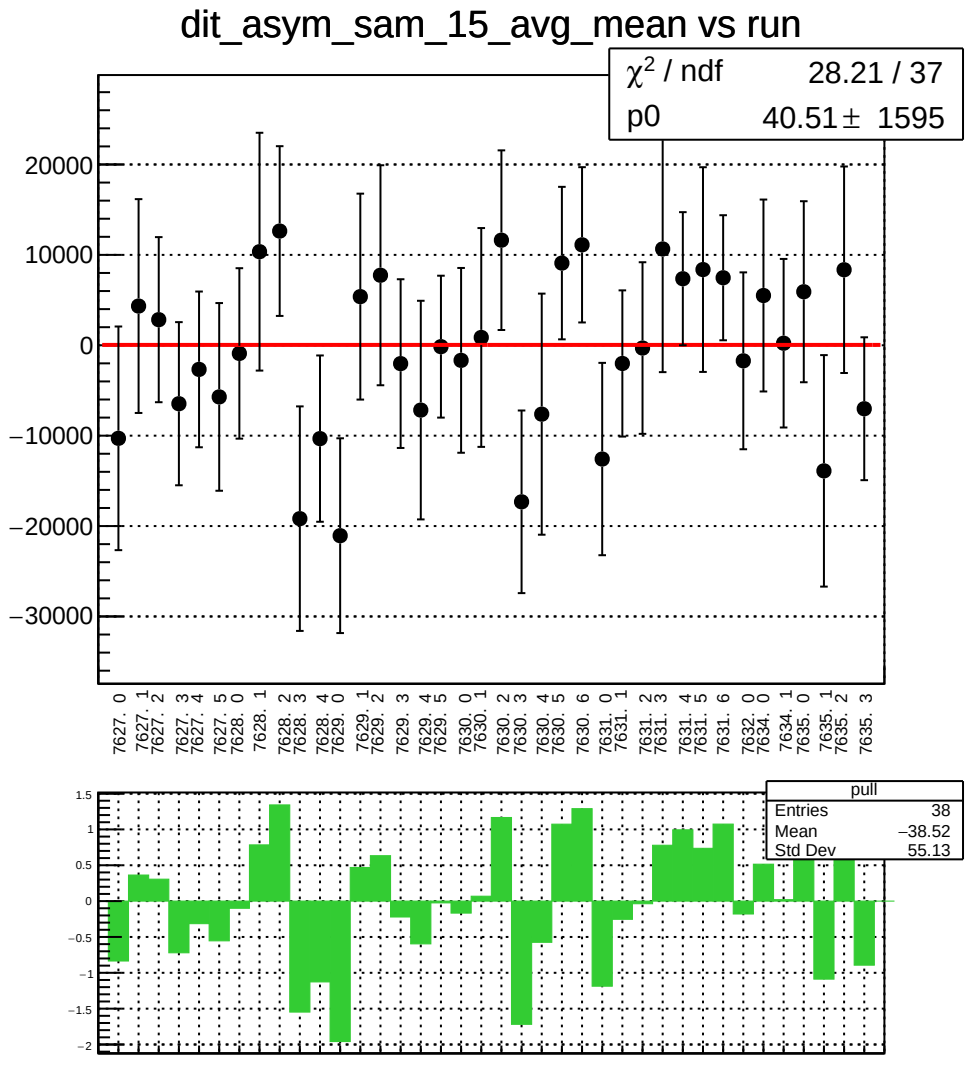

pull1D
Entries 38
Mean −0.02629
Std Dev 0.995
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

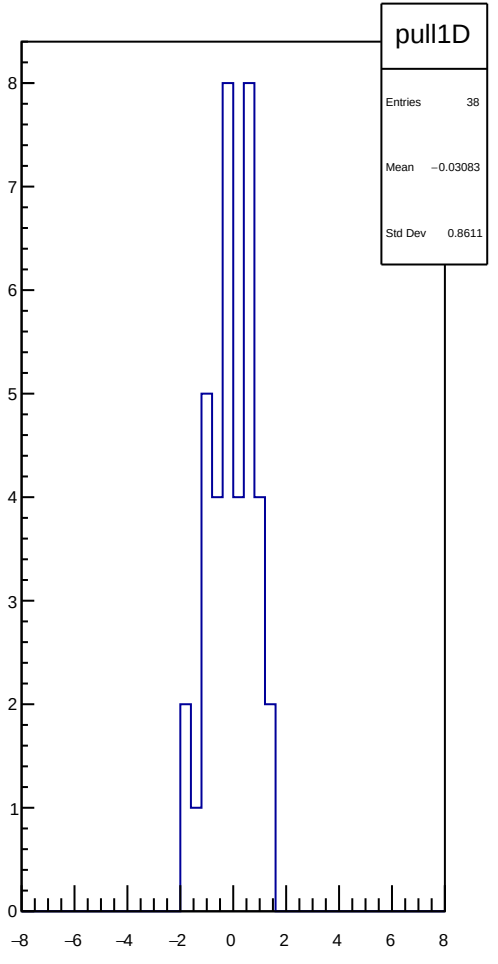

asym_sam8_correction_rms vs run
χ² / ndf 1.631e+04 / 37
p0 1736 ± 2.004
2200
2000
1800
1600
1400
1200
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

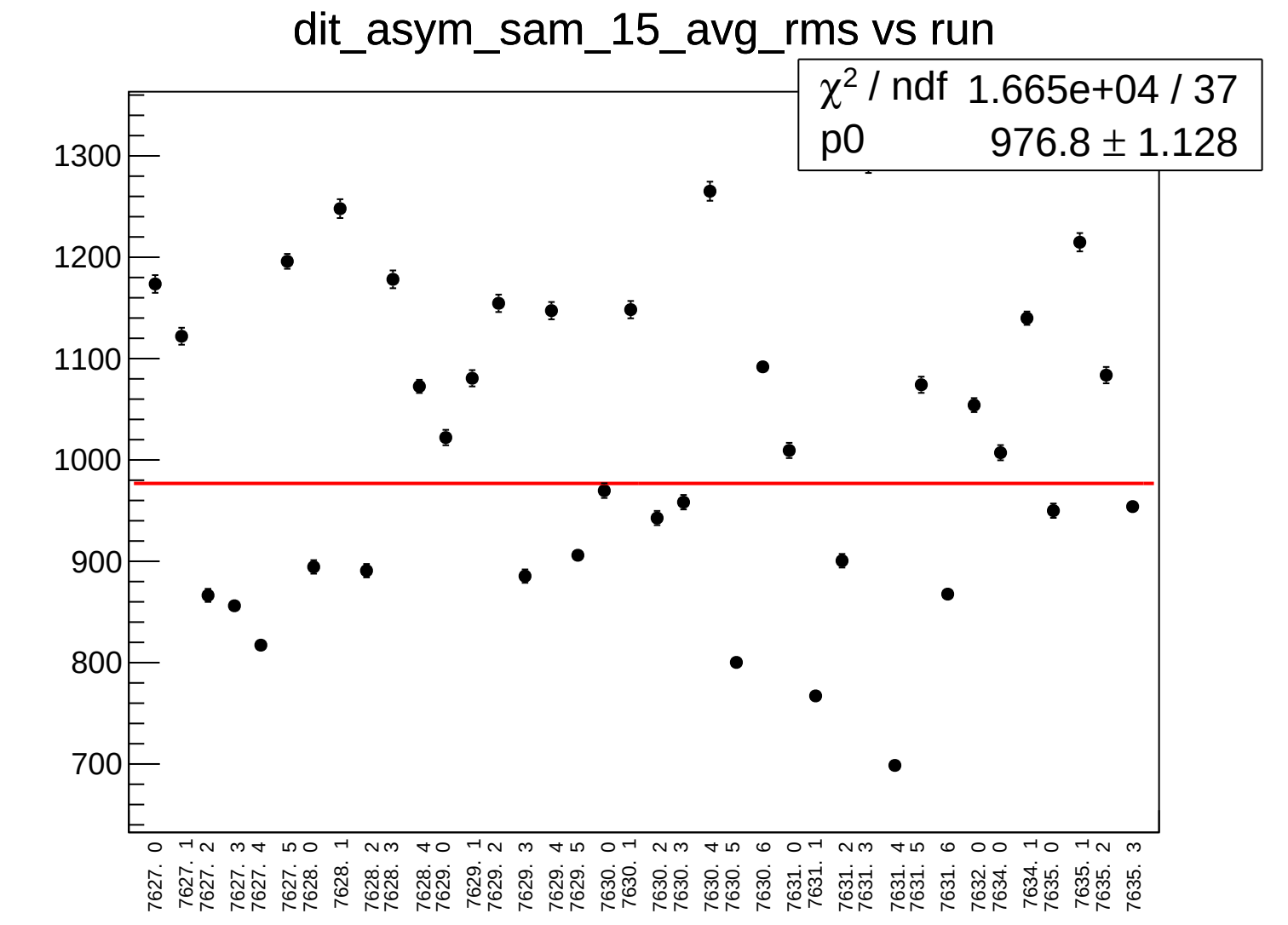

asym_sam8_mean vs run
χ² / ndf 36.08 / 37
p0 4350 ± 2957
60000
40000
20000
0
−20000
−40000
−60000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 88.73
Std Dev 68.5
2
1
0
−1
−2
−3

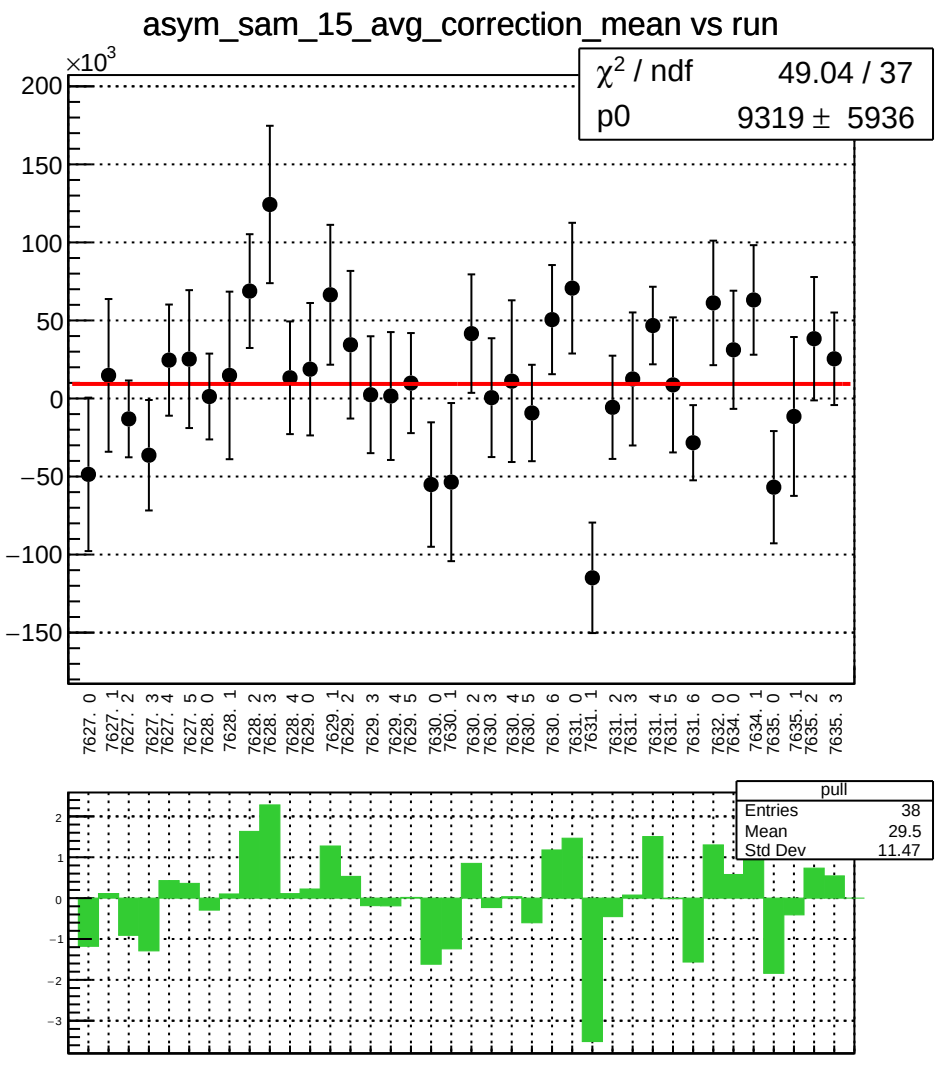

pull1D
Entries 38
Mean 0.02646
Std Dev 0.9741
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

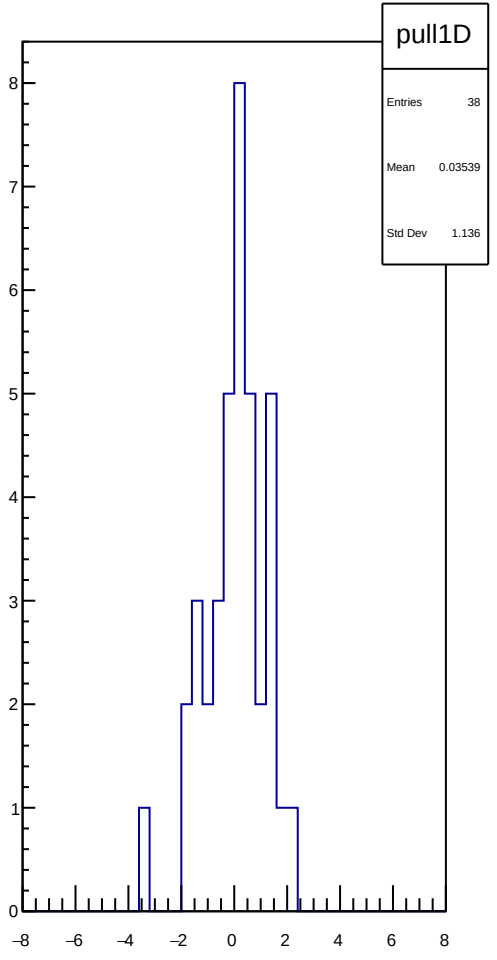

asym_sam8_rms vs run
χ² / ndf 1.686e+04 / 37
p0 1810 ± 2.091
2400
2200
2000
1800
1600
1400
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

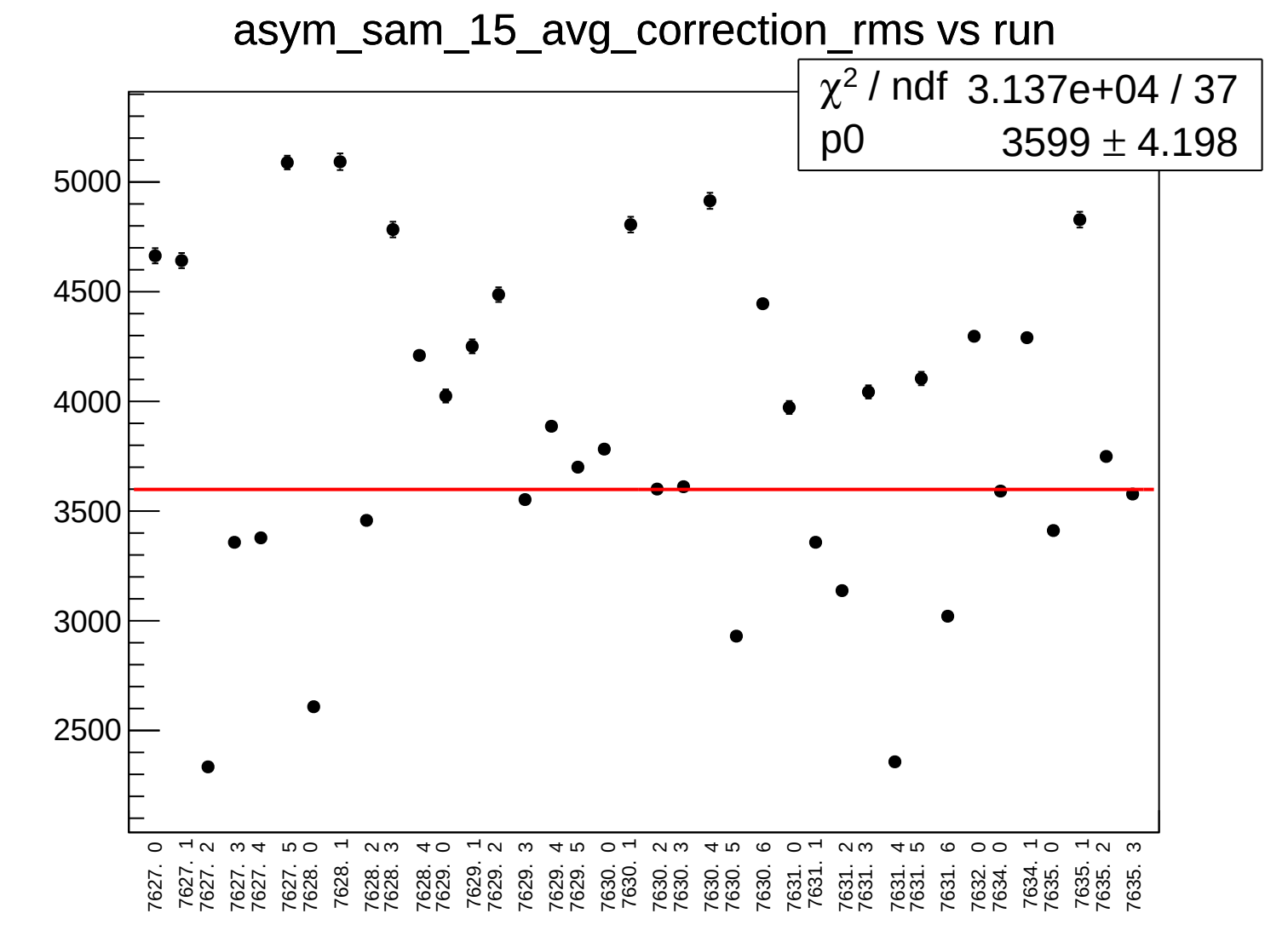

dit_asym_sam_15_avg_mean vs run
χ² / ndf 28.21 / 37
p0 40.51 ± 1595
20000
10000
0
−10000
−20000
−30000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −38.52
Std Dev 55.13
1.5
1
0.5
0
−0.5
−1
−1.5
−2

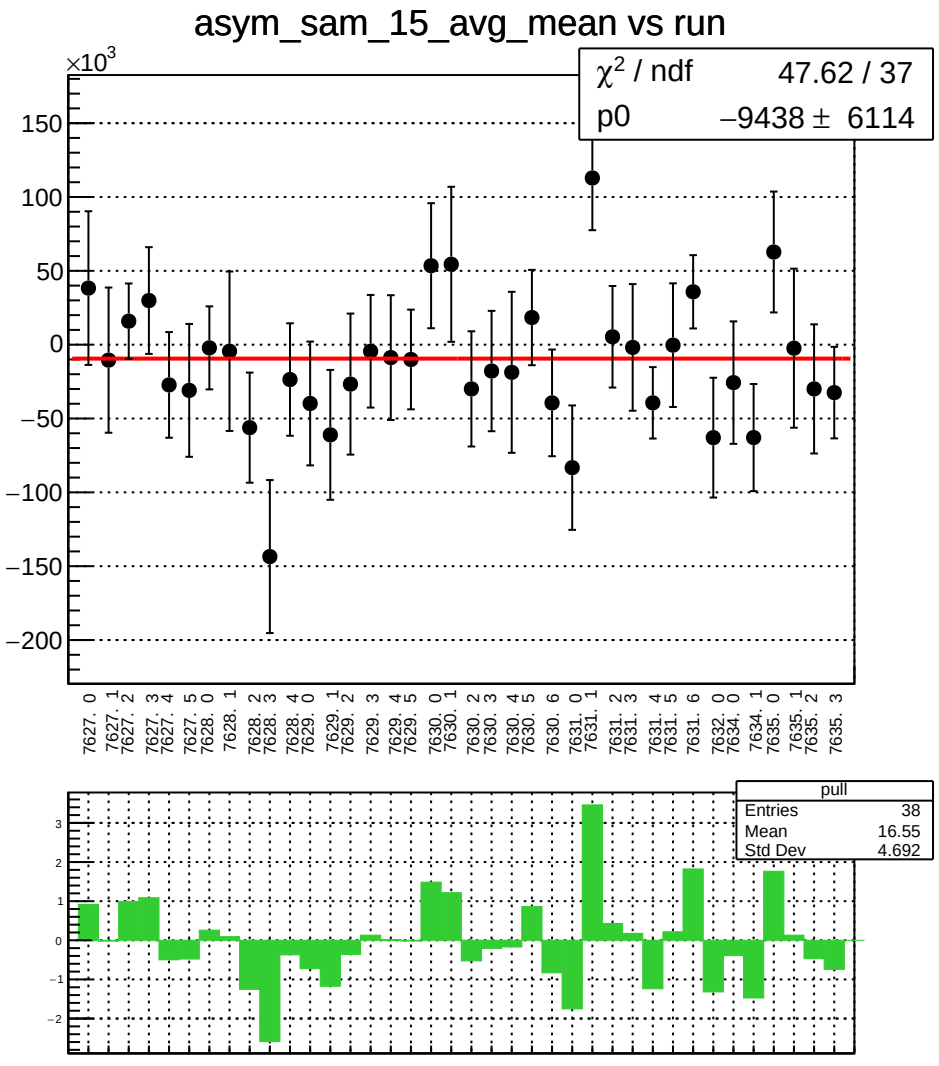

pull1D
Entries 38
Mean −0.03083
Std Dev 0.8611
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

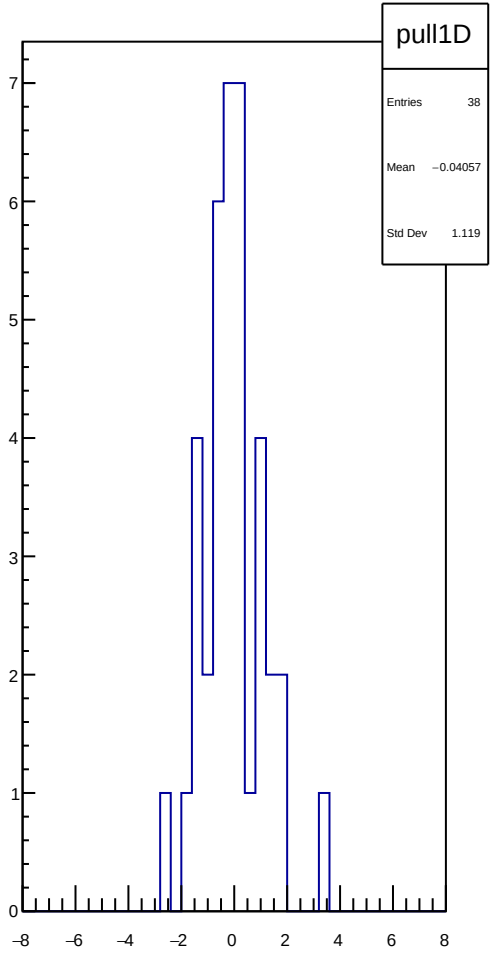

dit_asym_sam_15_avg_rms vs run
χ² / ndf 1.665e+04 / 37
p0 976.8 ± 1.128
1300
1200
1100
1000
900
800
700
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

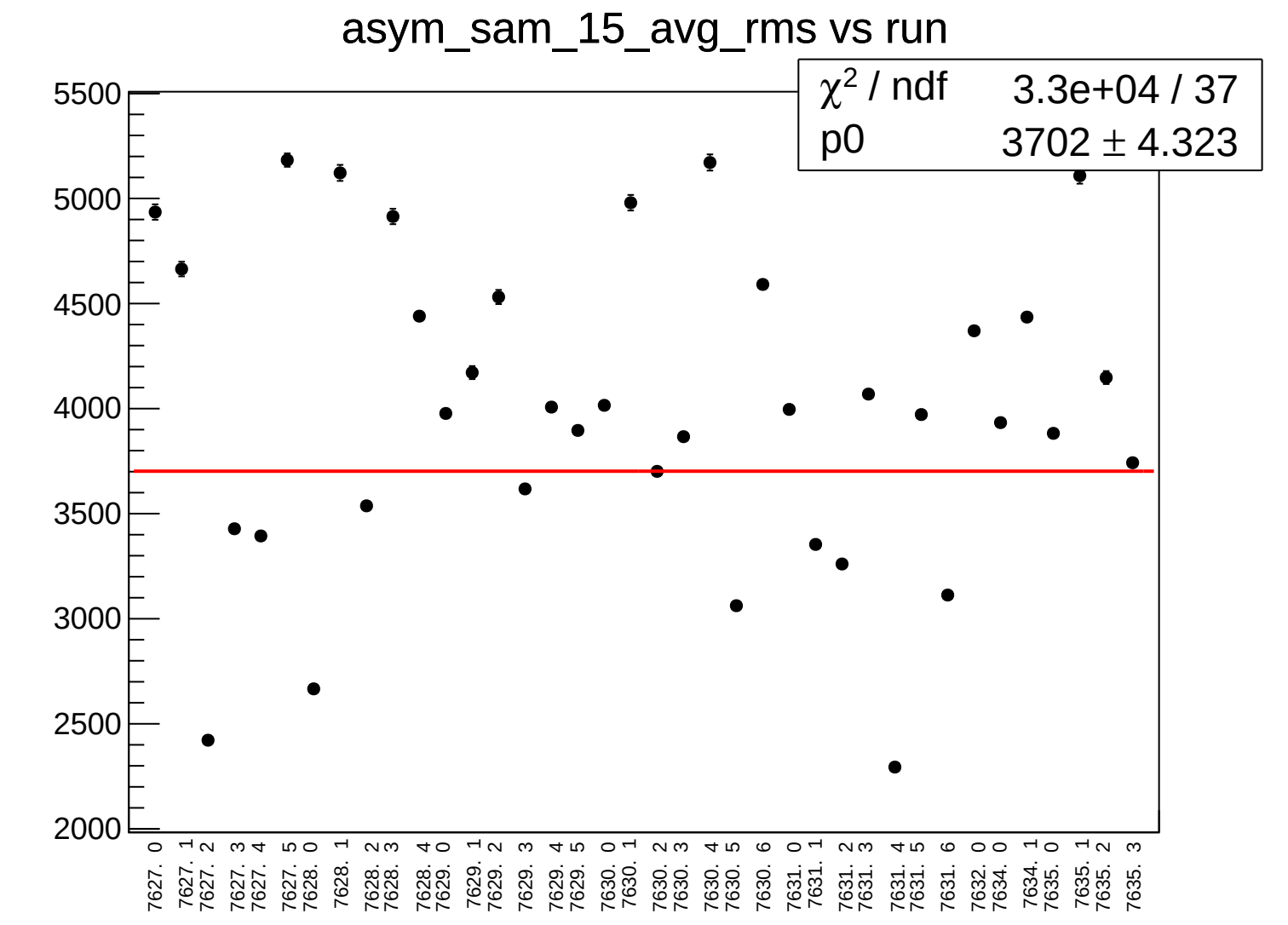

asym_sam_15_avg_correction_mean vs run
×10^3
χ² / ndf 49.04 / 37
p0 9319 ± 5936
200
150
100
50
0
−50
−100
−150
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 29.5
Std Dev 11.47
2
1
0
−1
−2
−3

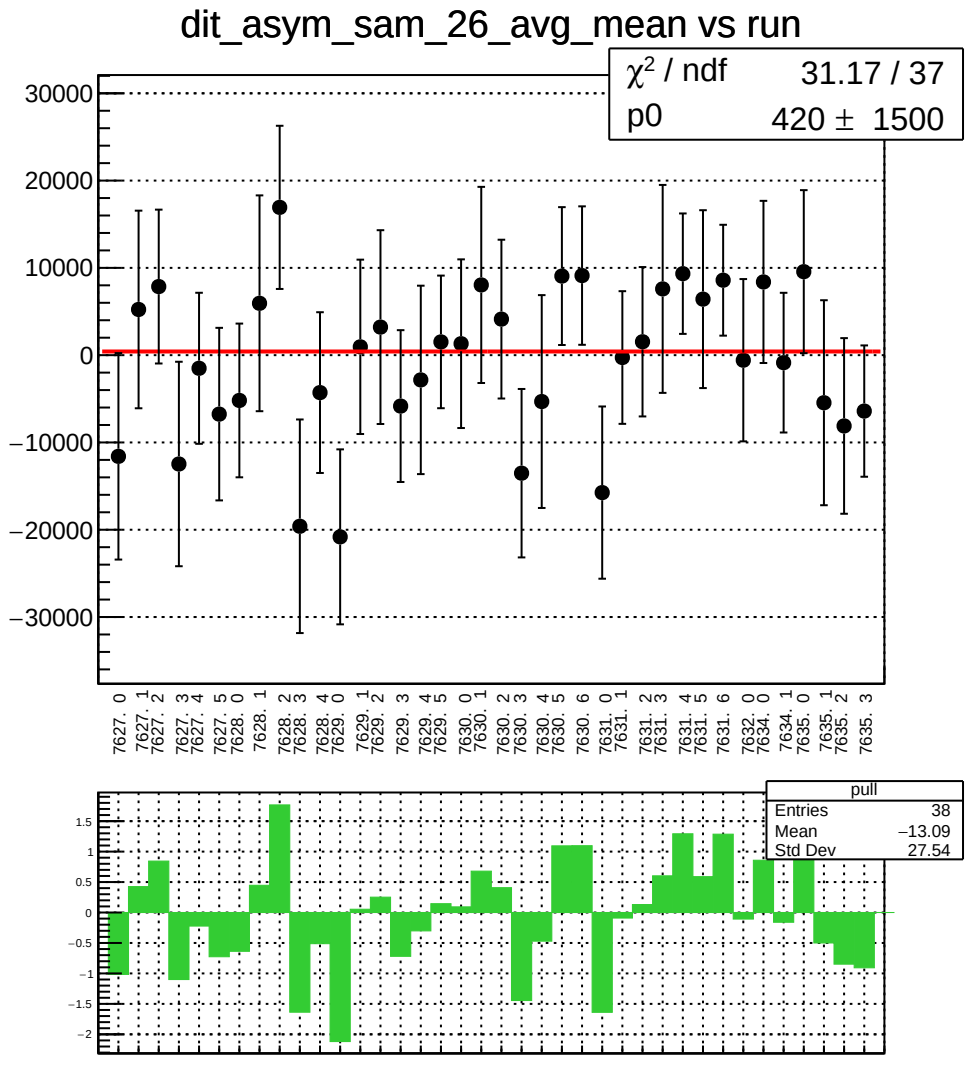

pull1D
Entries 38
Mean 0.03539
Std Dev 1.136
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

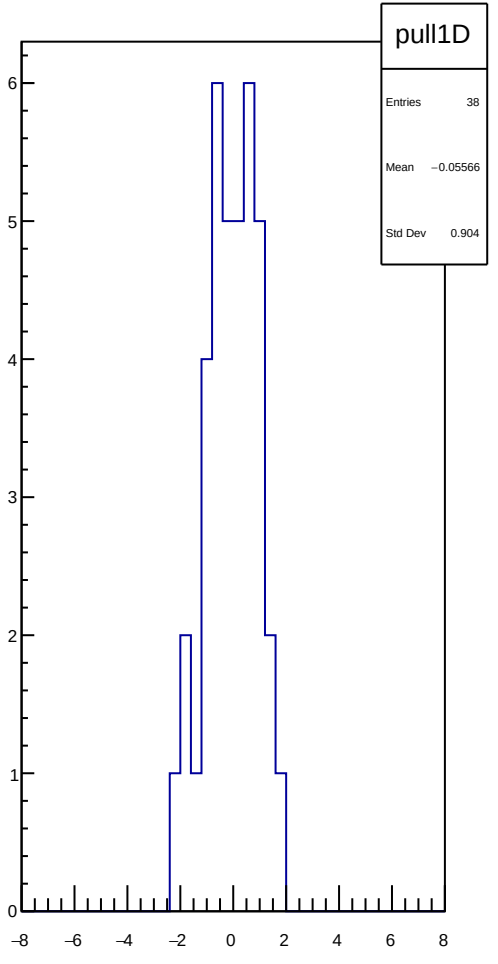

asym_sam_15_avg_correction_rms vs run
χ² / ndf 3.137e+04 / 37
p0 3599 ± 4.198
5000
4500
4000
3500
3000
2500
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

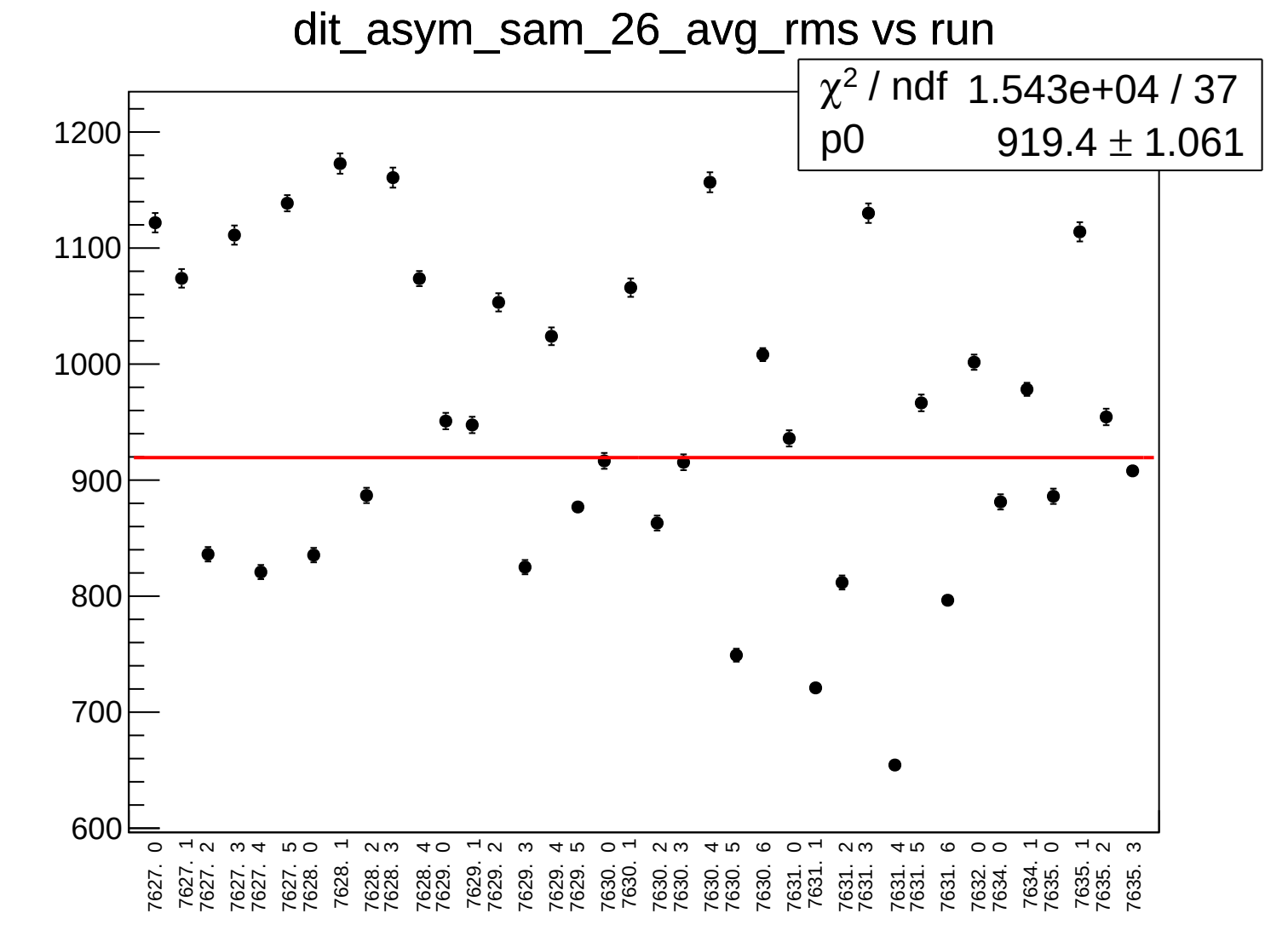

asym_sam_15_avg_mean vs run
×10^3
χ^2 / ndf 47.62 / 37
p0 −9438 ± 6114
150
100
50
0
−50
−100
−150
−200
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 16.55
Std Dev 4.692
3
2
1
0
−1
−2

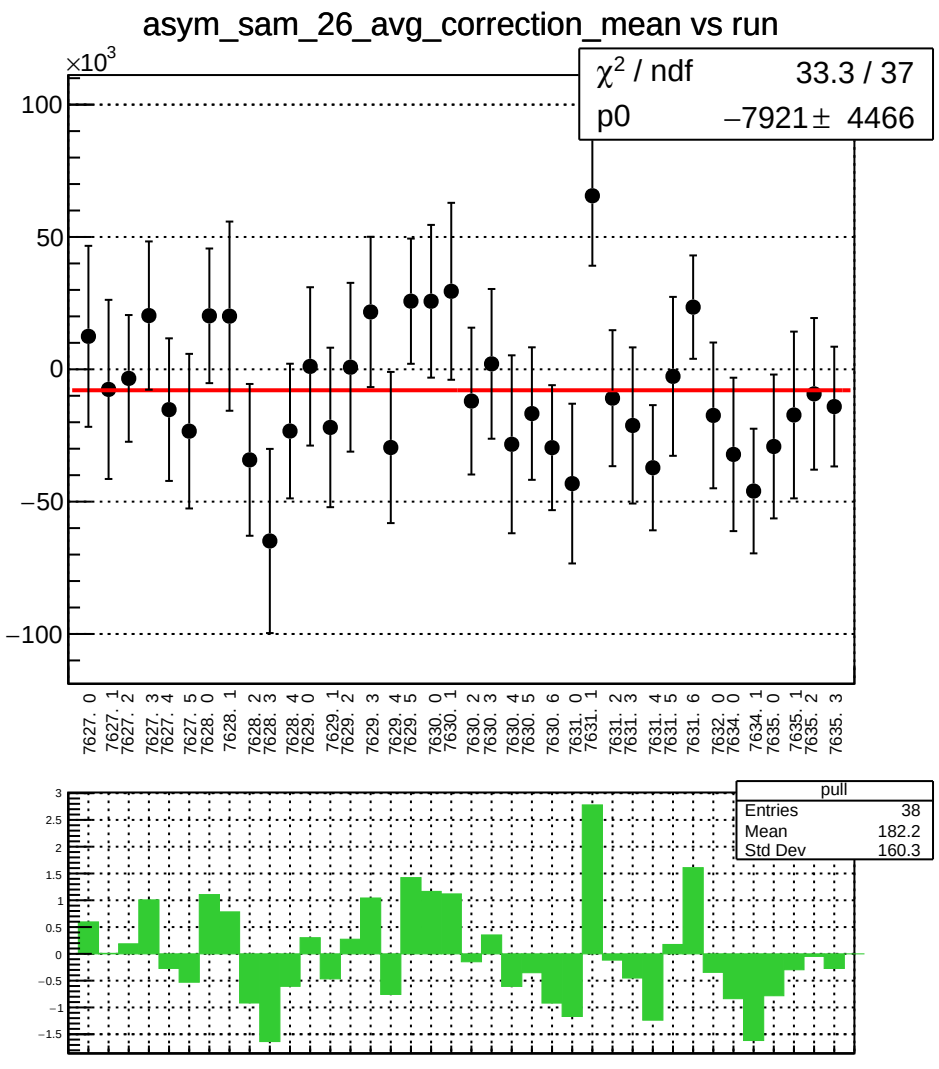

pull1D
Entries 38
Mean −0.04057
Std Dev 1.119
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

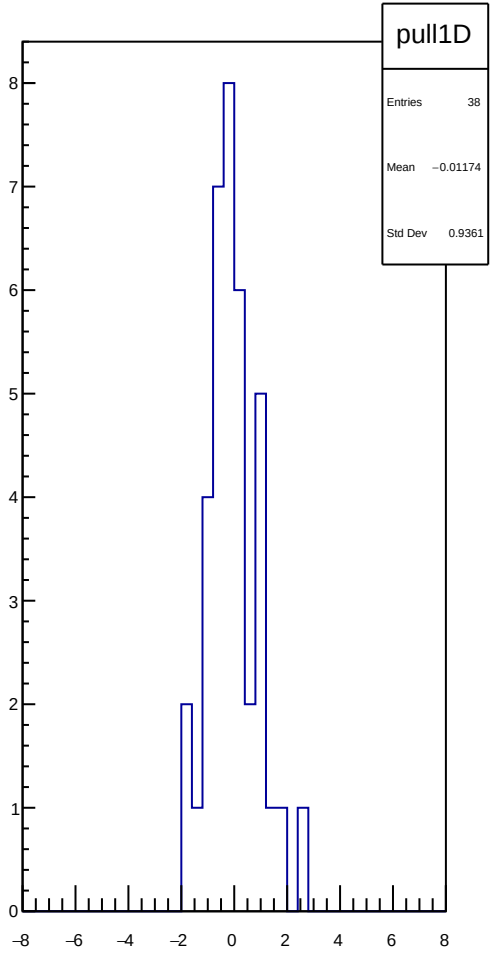

asym_sam_15_avg_rms vs run
χ^2 / ndf 3.3e+04 / 37
p0 3702 ± 4.323
5500
5000
4500
4000
3500
3000
2500
2000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

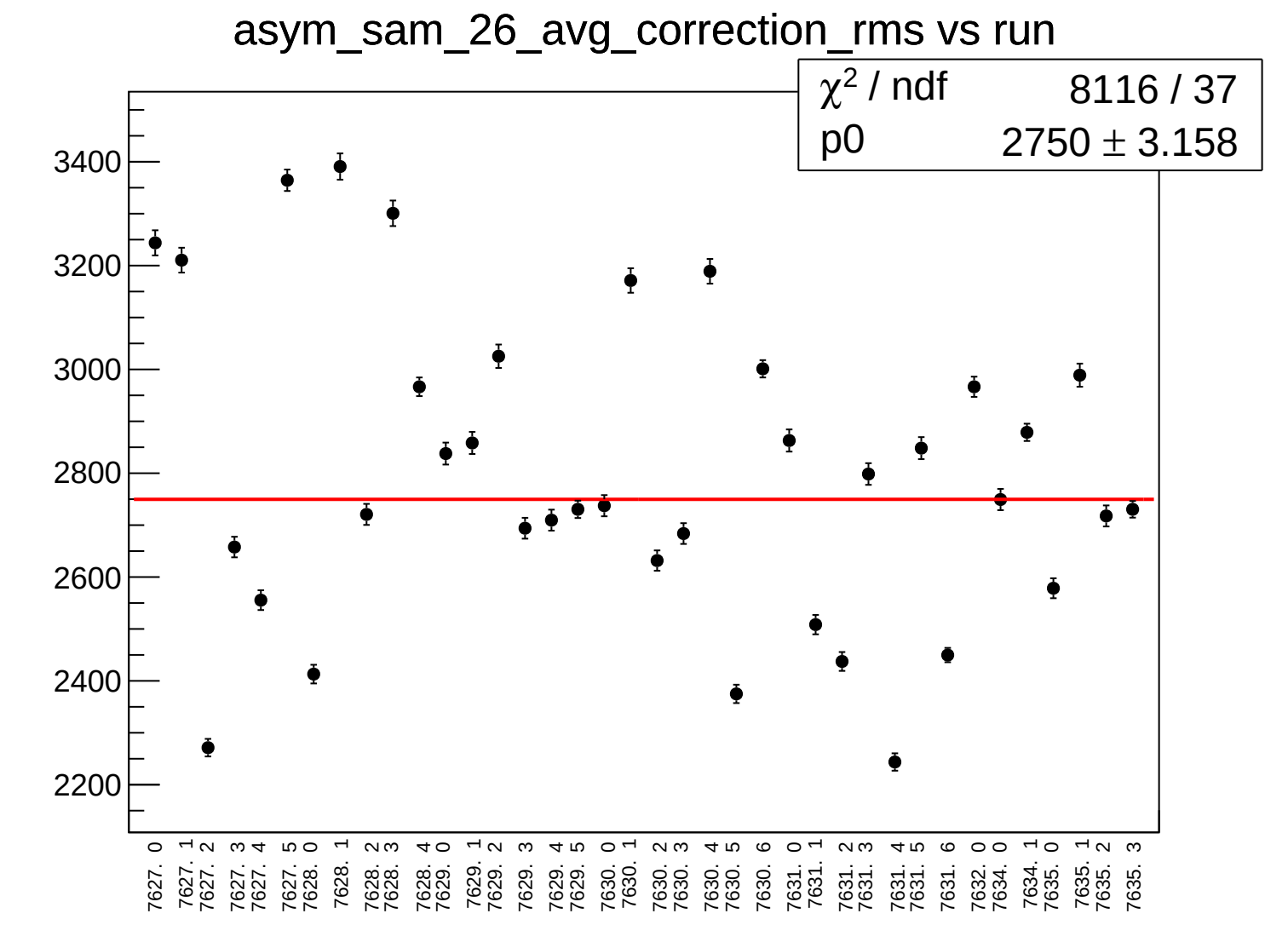

dit_asym_sam_26_avg_mean vs run
χ² / ndf 31.17 / 37
p0 420 ± 1500
30000
20000
10000
0
−10000
−20000
−30000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −13.09
Std Dev 27.54
1.5
1
0.5
0
−0.5
−1
−1.5
−2

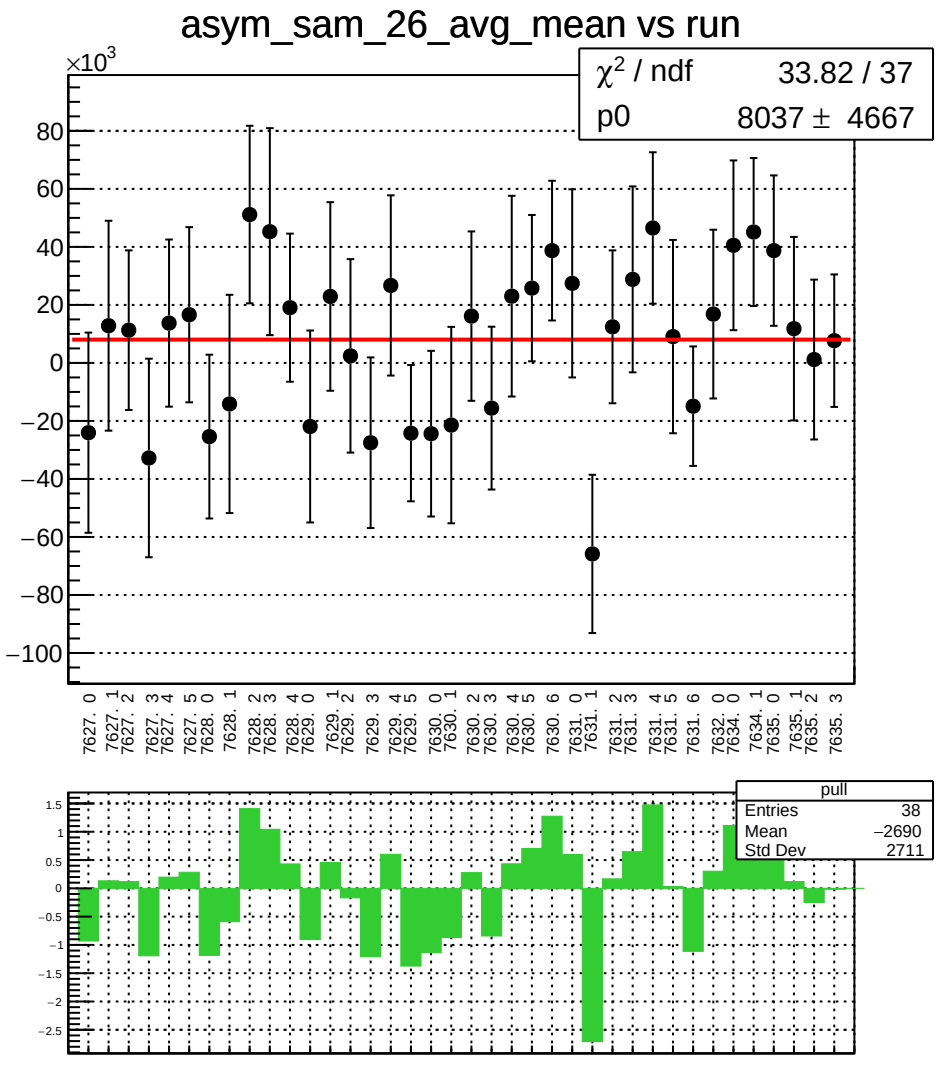

pull1D
Entries 38
Mean −0.05566
Std Dev 0.904
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

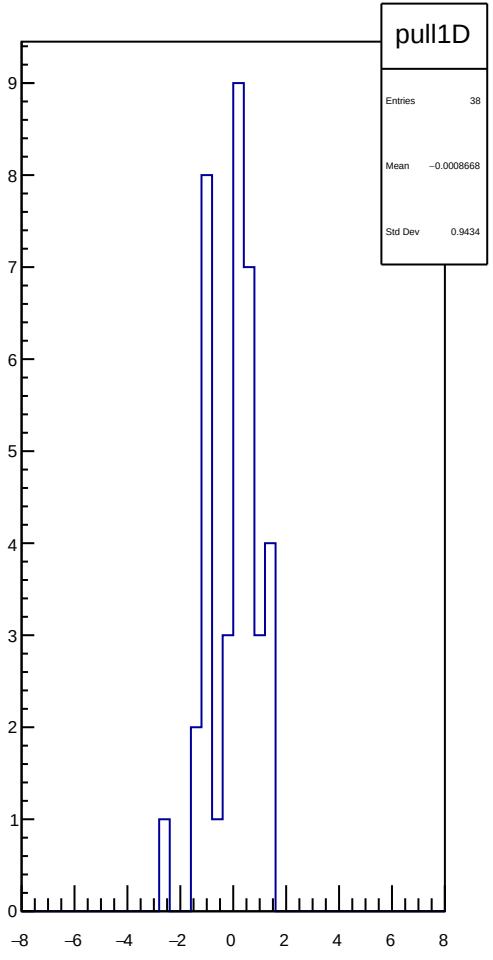

dit_asym_sam_26_avg_rms vs run
χ² / ndf 1.543e+04 / 37
p0 919.4 ± 1.061
1200
1100
1000
900
800
700
600
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

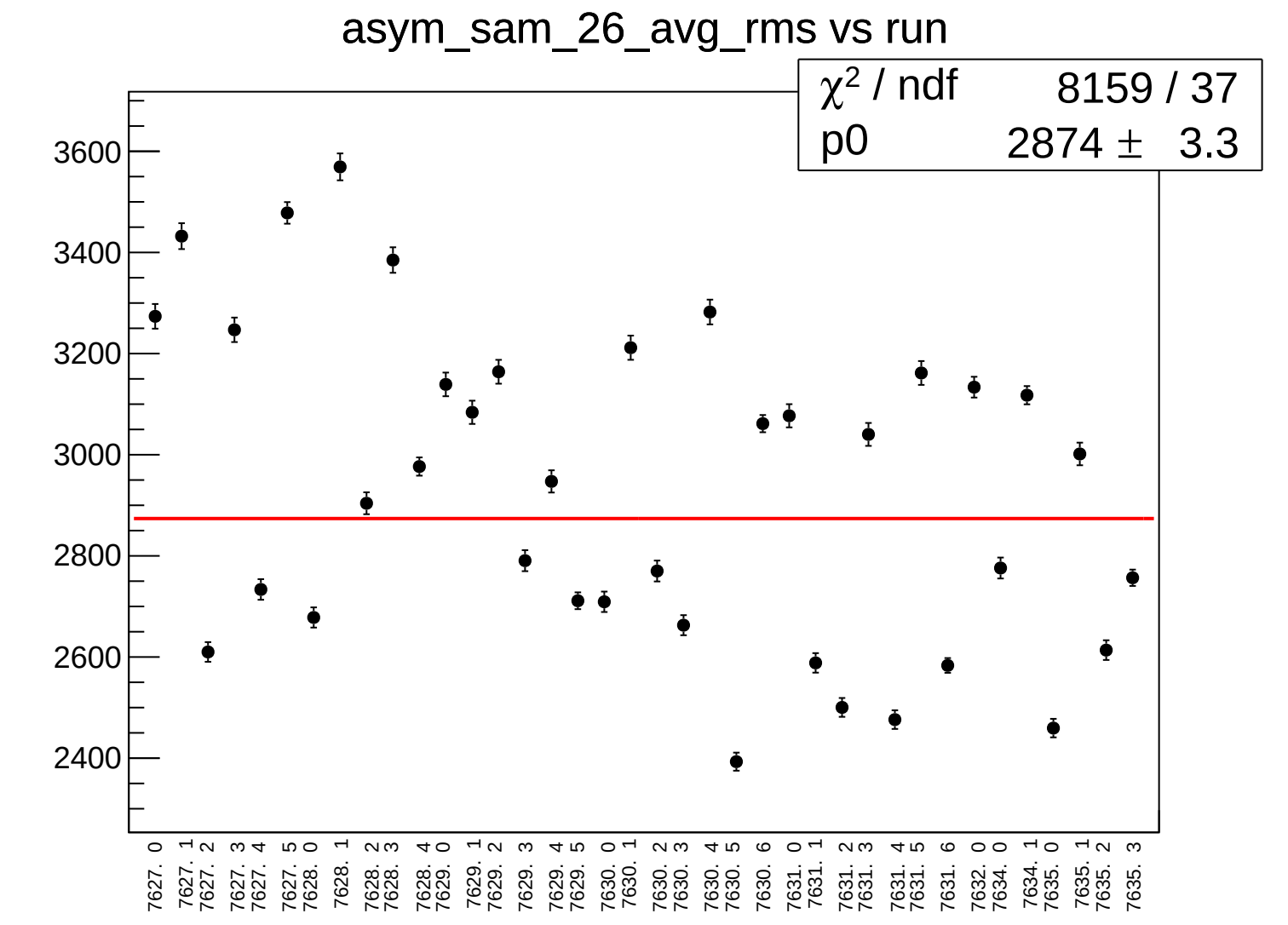

asym_sam_26_avg_correction_mean vs run
×10^3
χ² / ndf 33.3 / 37
p0 −7921 ± 4466
100
50
0
−50
−100
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 4
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 182.2
Std Dev 160.3
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

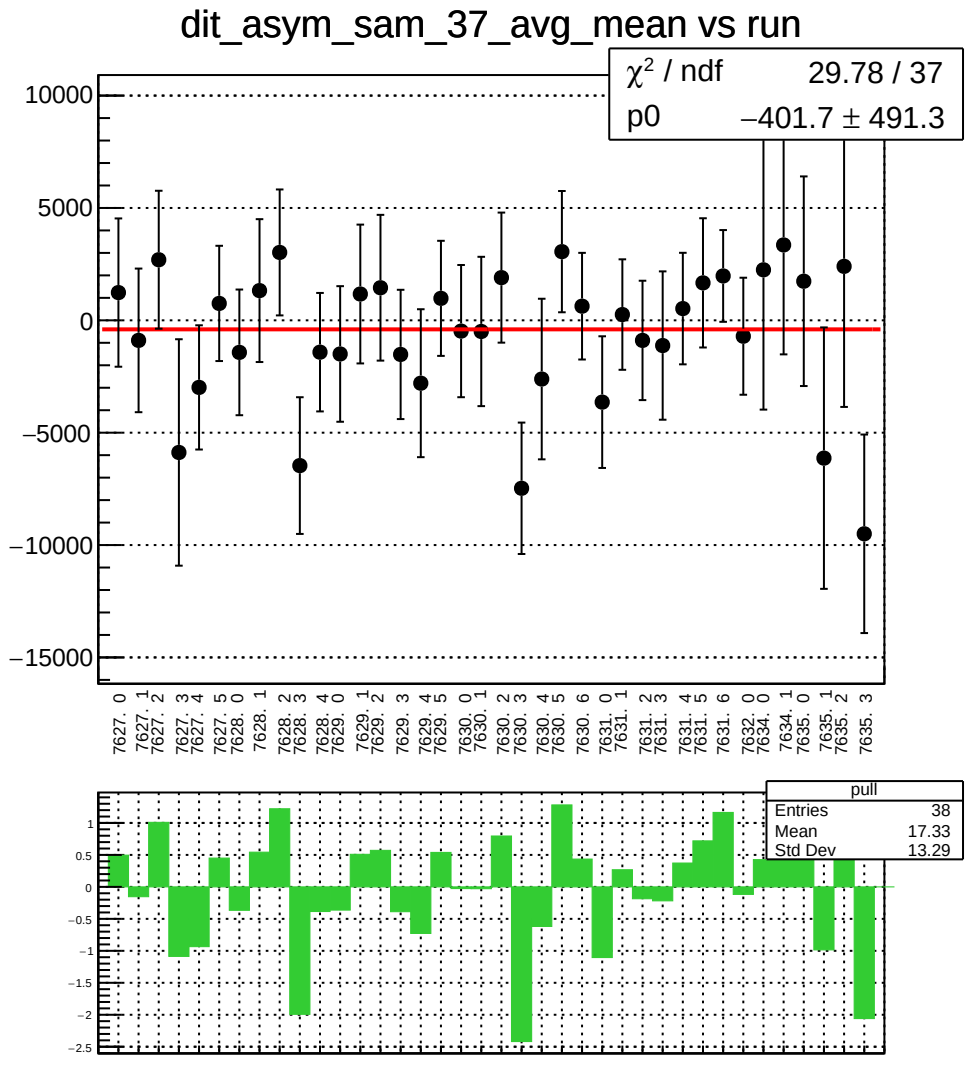

pull1D
Entries 38
Mean −0.01174
Std Dev 0.9361
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

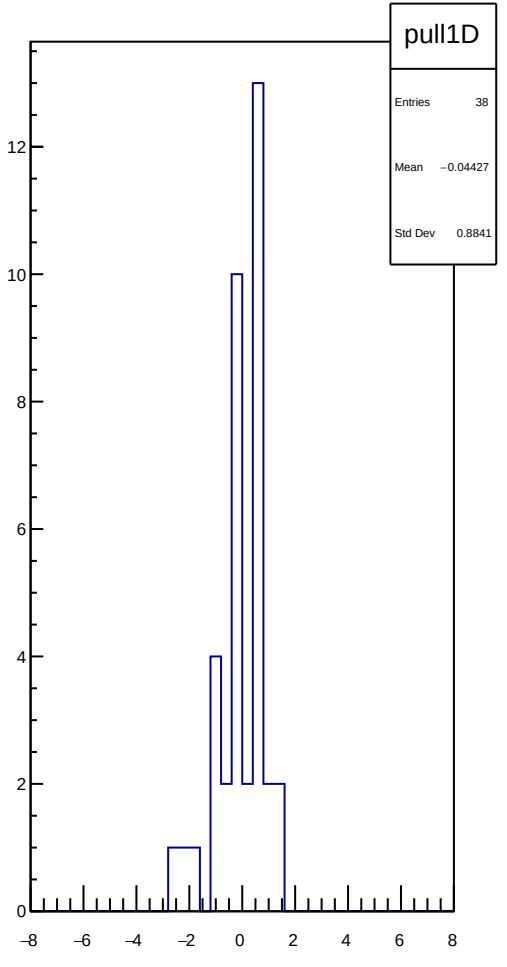

asym_sam_26_avg_correction_rms vs run
χ² / ndf 8116 / 37
p0 2750 ± 3.158
3400
3200
3000
2800
2600
2400
2200
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

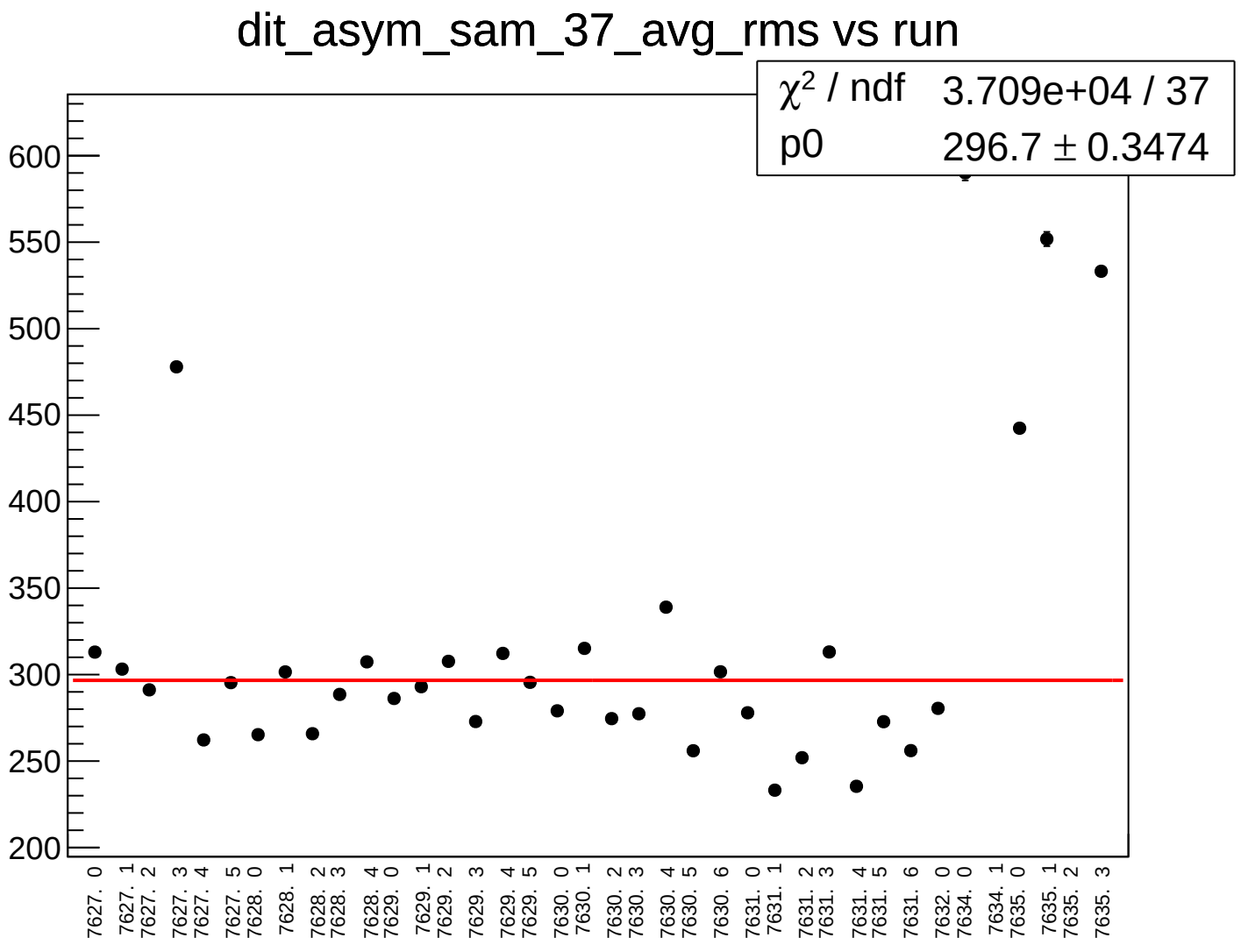

asym_sam_26_avg_mean vs run
×10^3
χ² / ndf 33.82 / 37
p0 8037 ± 4667
80
60
40
20
0
−20
−40
−60
−80
−100
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −2690
Std Dev 2711
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

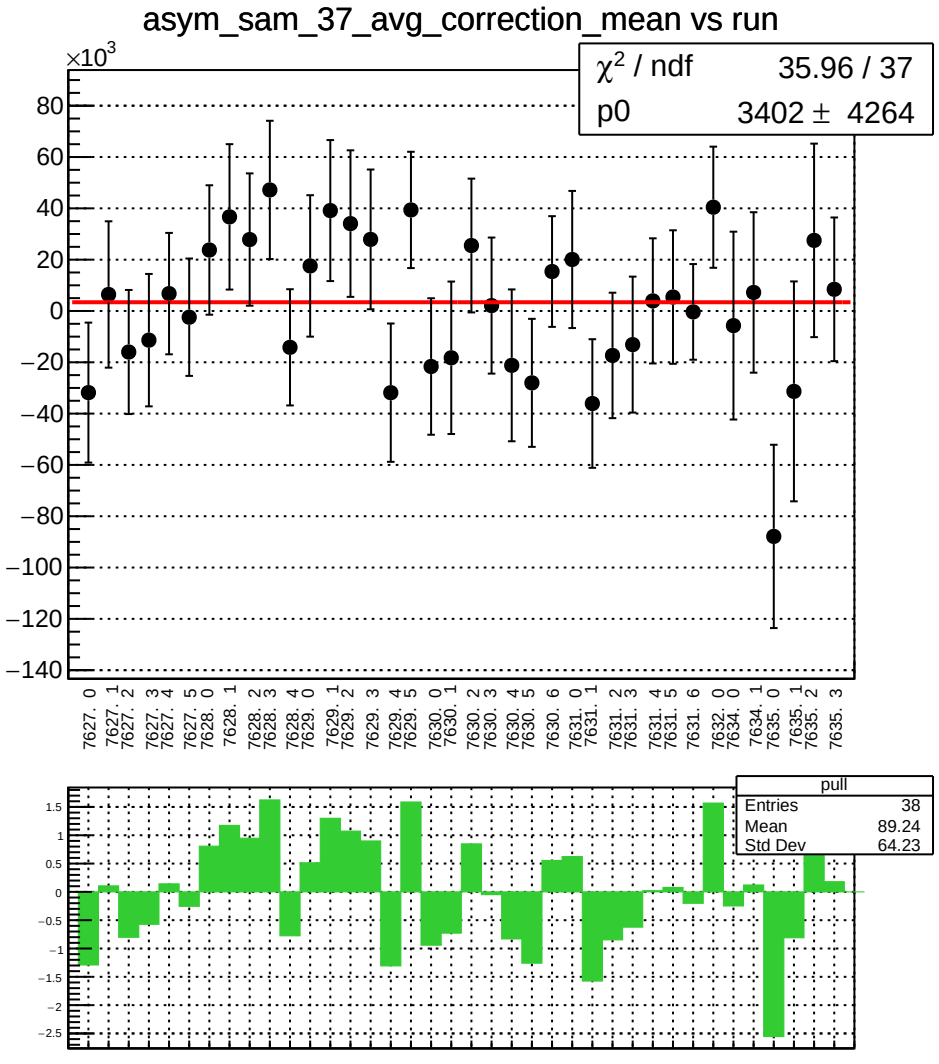

pull1D
Entries 38
Mean −0.0008668
Std Dev 0.9434
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

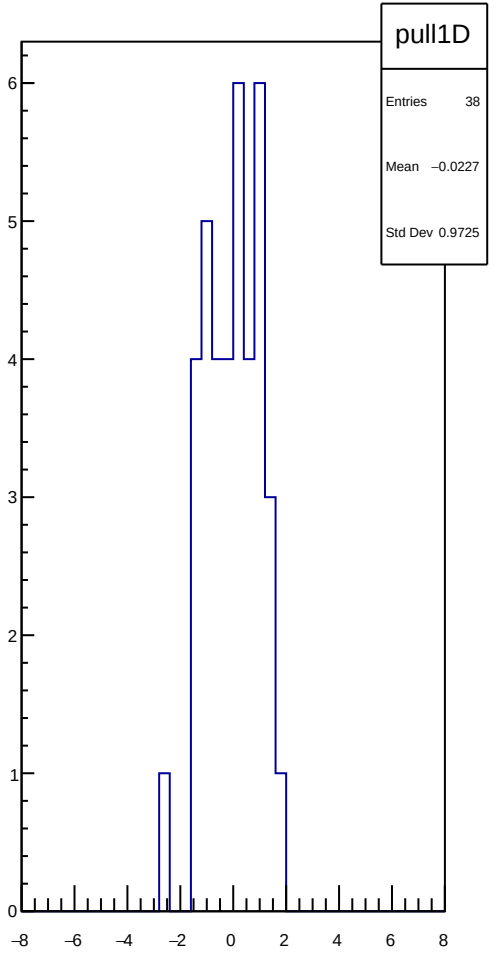

asym_sam_26_avg_rms vs run
χ² / ndf 8159 / 37
p0 2874 ± 3.3
3600
3400
3200
3000
2800
2600
2400
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

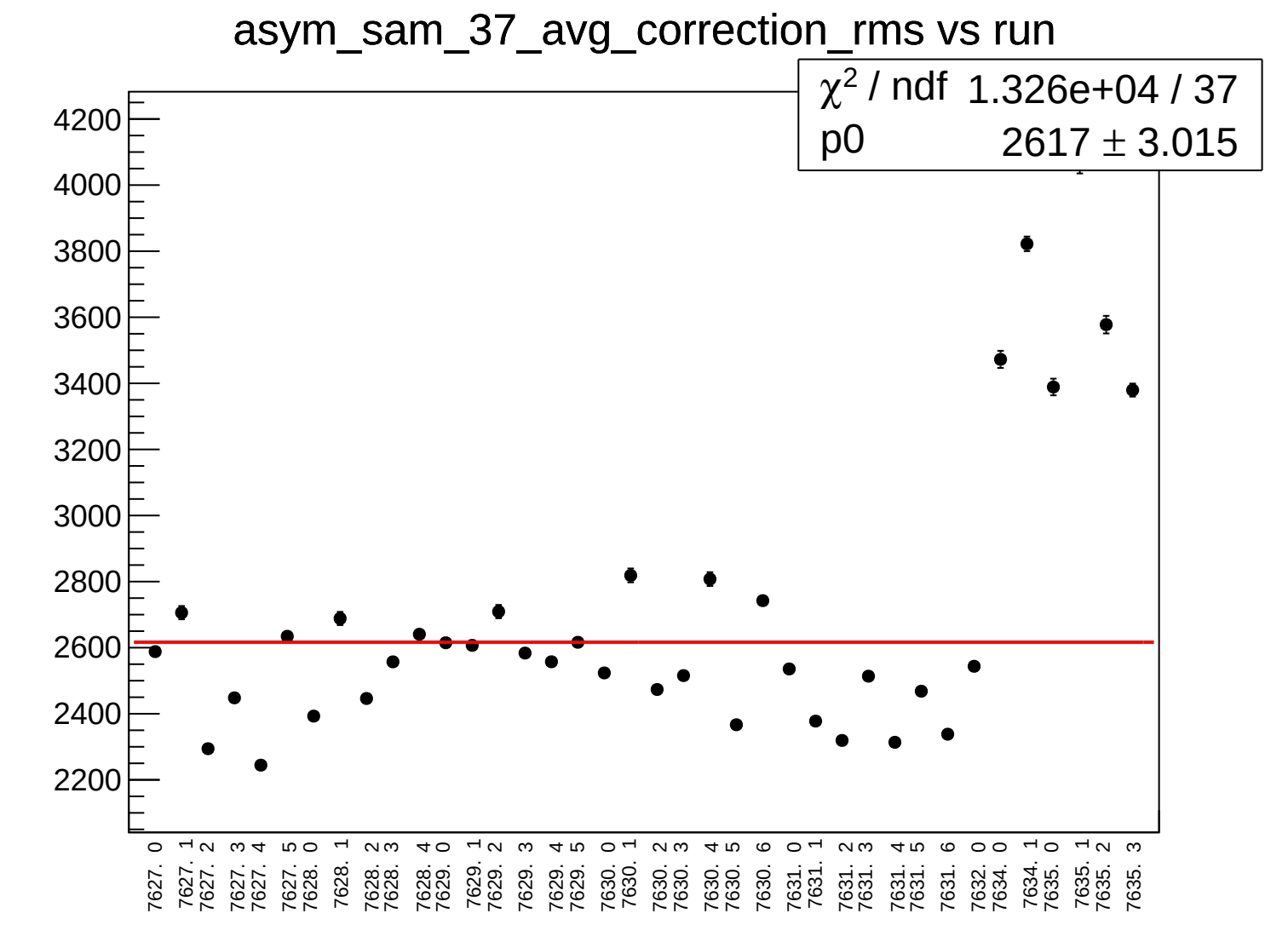

dit_asym_sam_37_avg_mean vs run
χ² / ndf 29.78 / 37
p0 −401.7 ± 491.3
10000
5000
0
−5000
−10000
−15000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 17.33
Std Dev 13.29
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

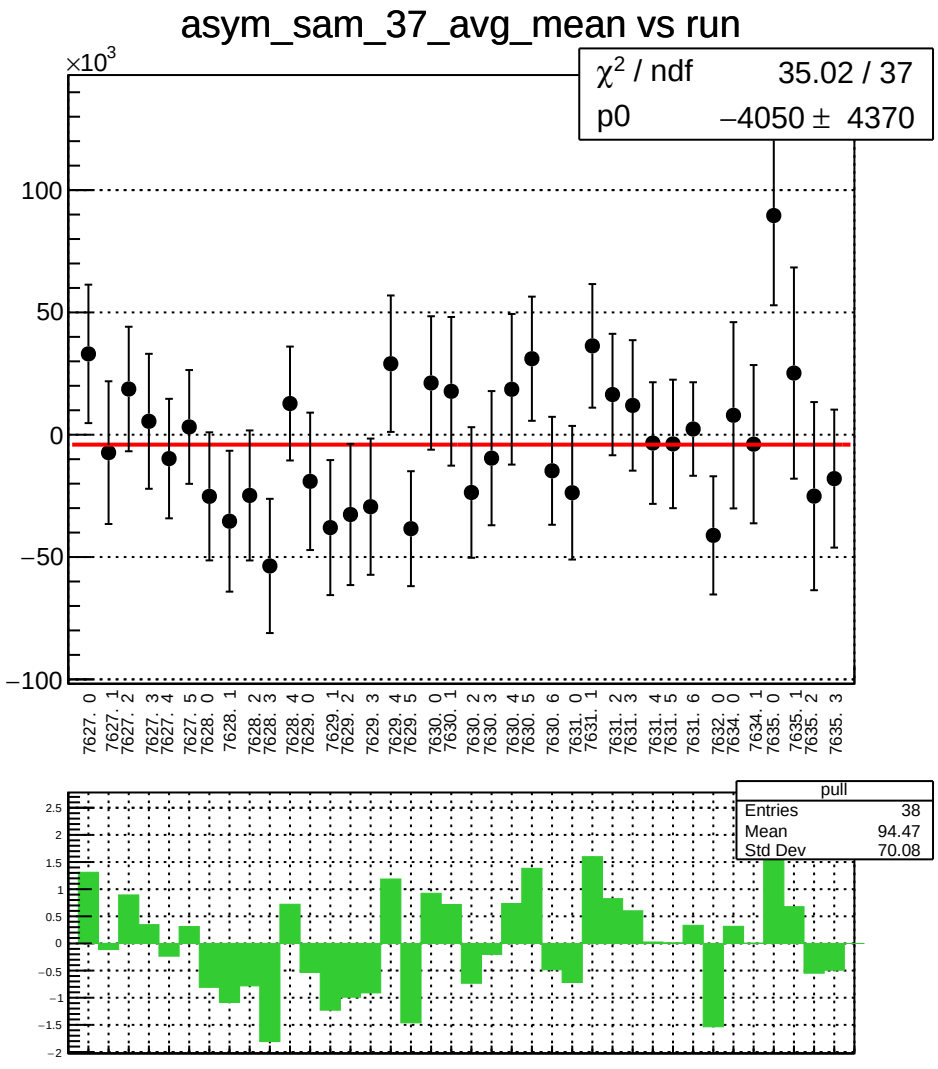

pull1D
Entries 38
Mean −0.04427
Std Dev 0.8841
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

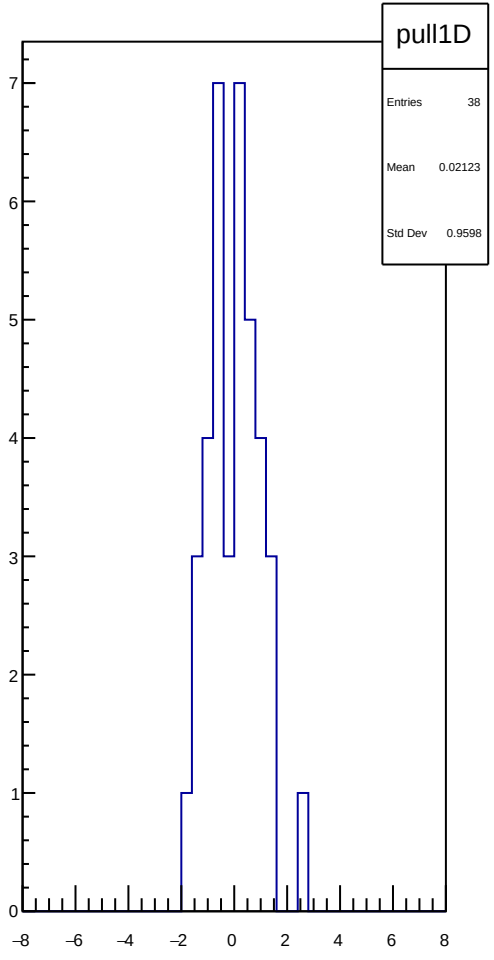

dit_asym_sam_37_avg_rms vs run
χ² / ndf 3.709e+04 / 37
p0 296.7 ± 0.3474
600
550
500
450
400
350
300
250
200
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

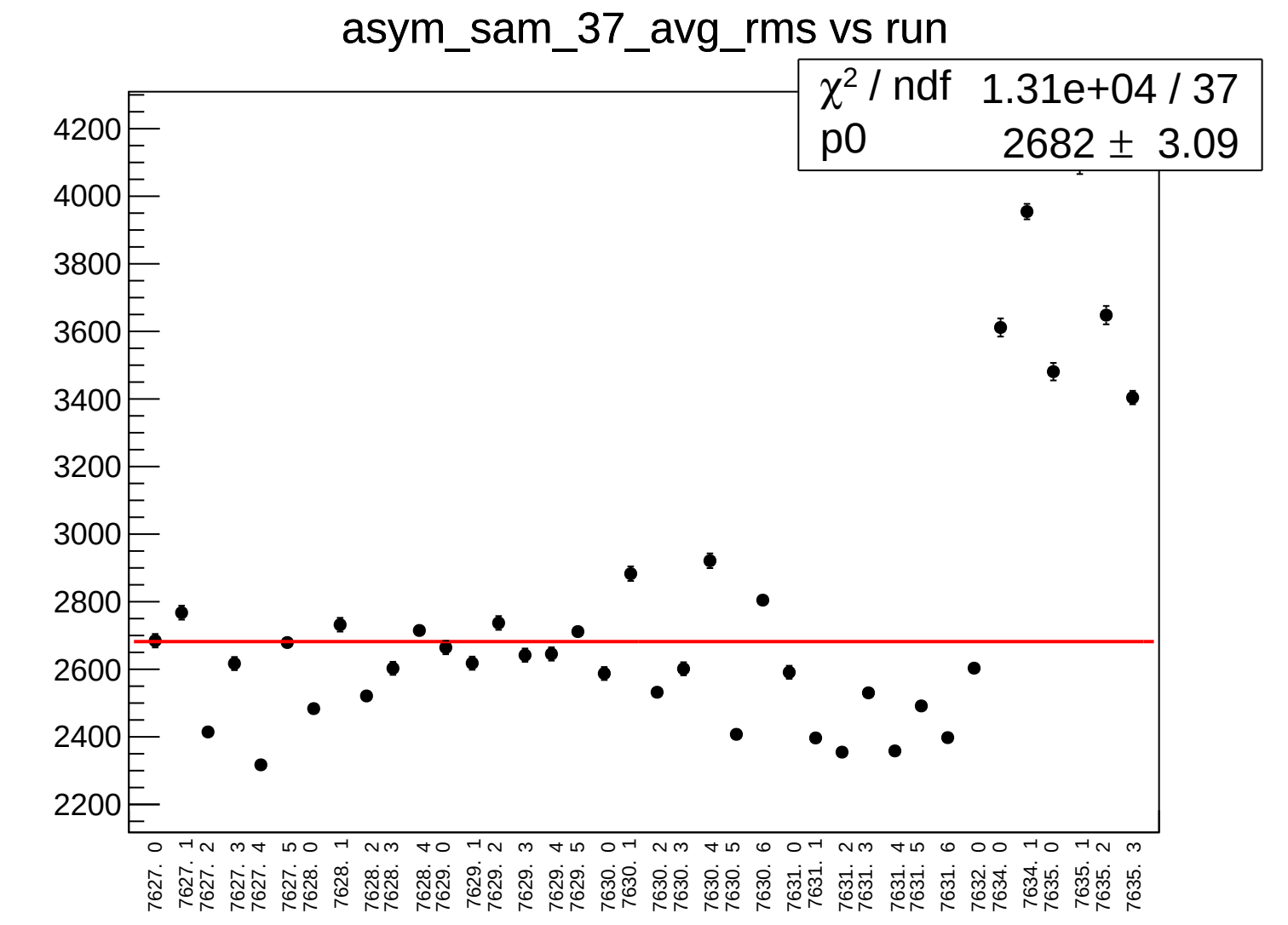

asym_sam_37_avg_correction_mean vs run
×10^3
χ² / ndf 35.96 / 37
p0 3402 ± 4264
pull
Entries 38
Mean 89.24
Std Dev 64.23

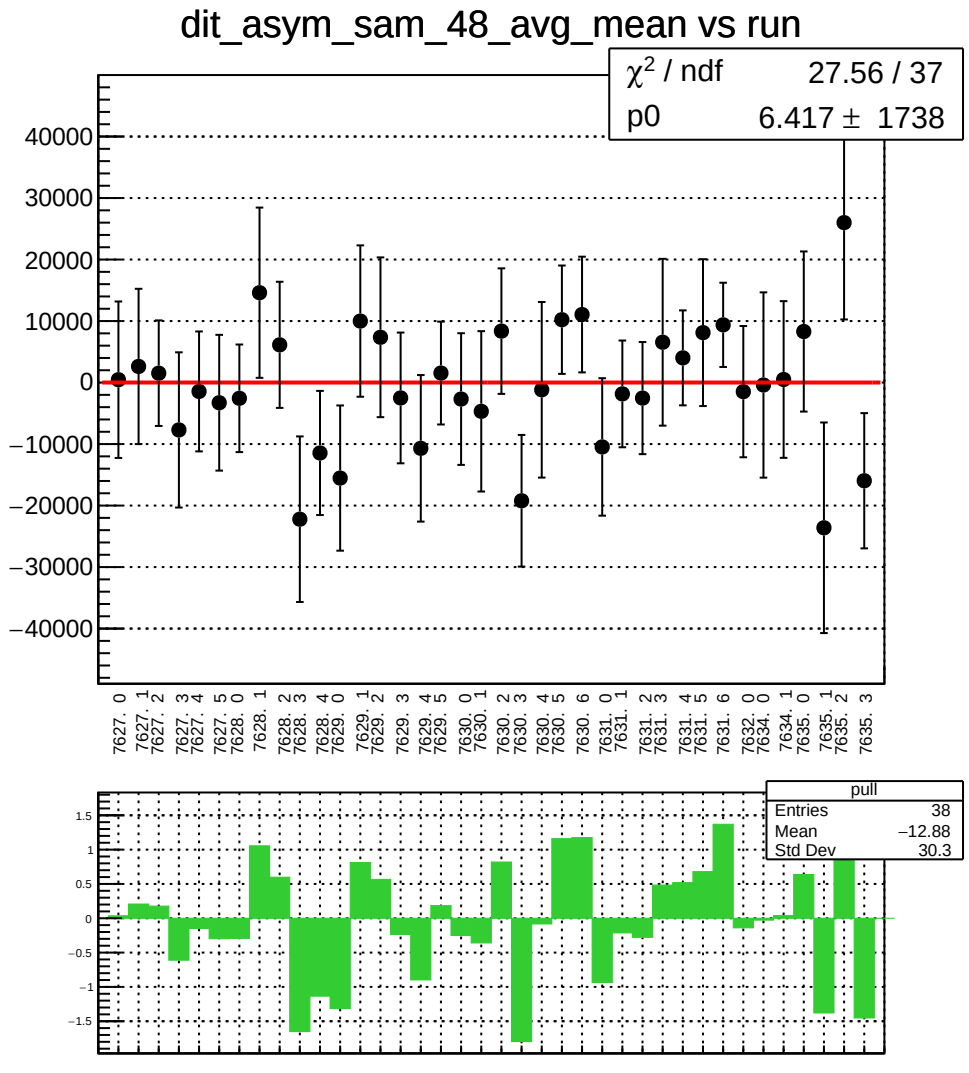

pull1D
Entries 38
Mean −0.0227
Std Dev 0.9725

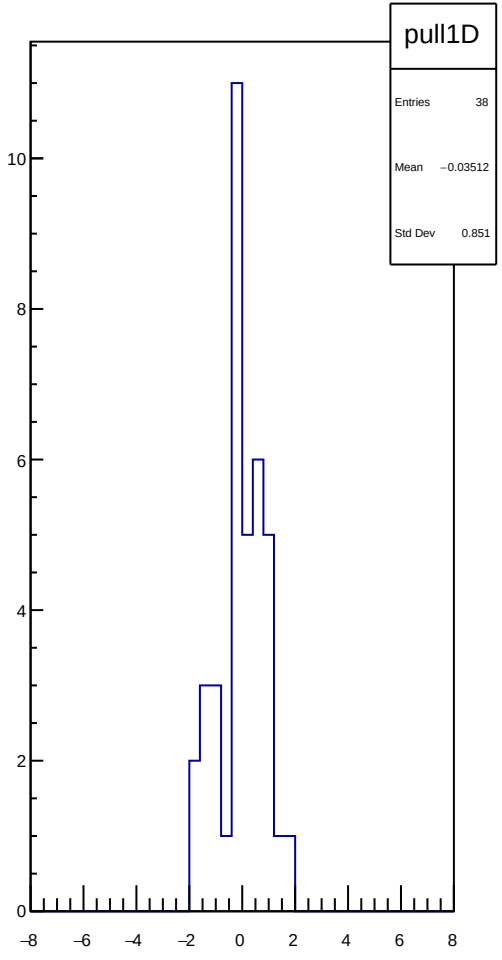

asym_sam_37_avg_correction_rms vs run
χ² / ndf 1.326e+04 / 37
p0 2617 ± 3.015
4200
4000
3800
3600
3400
3200
3000
2800
2600
2400
2200
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

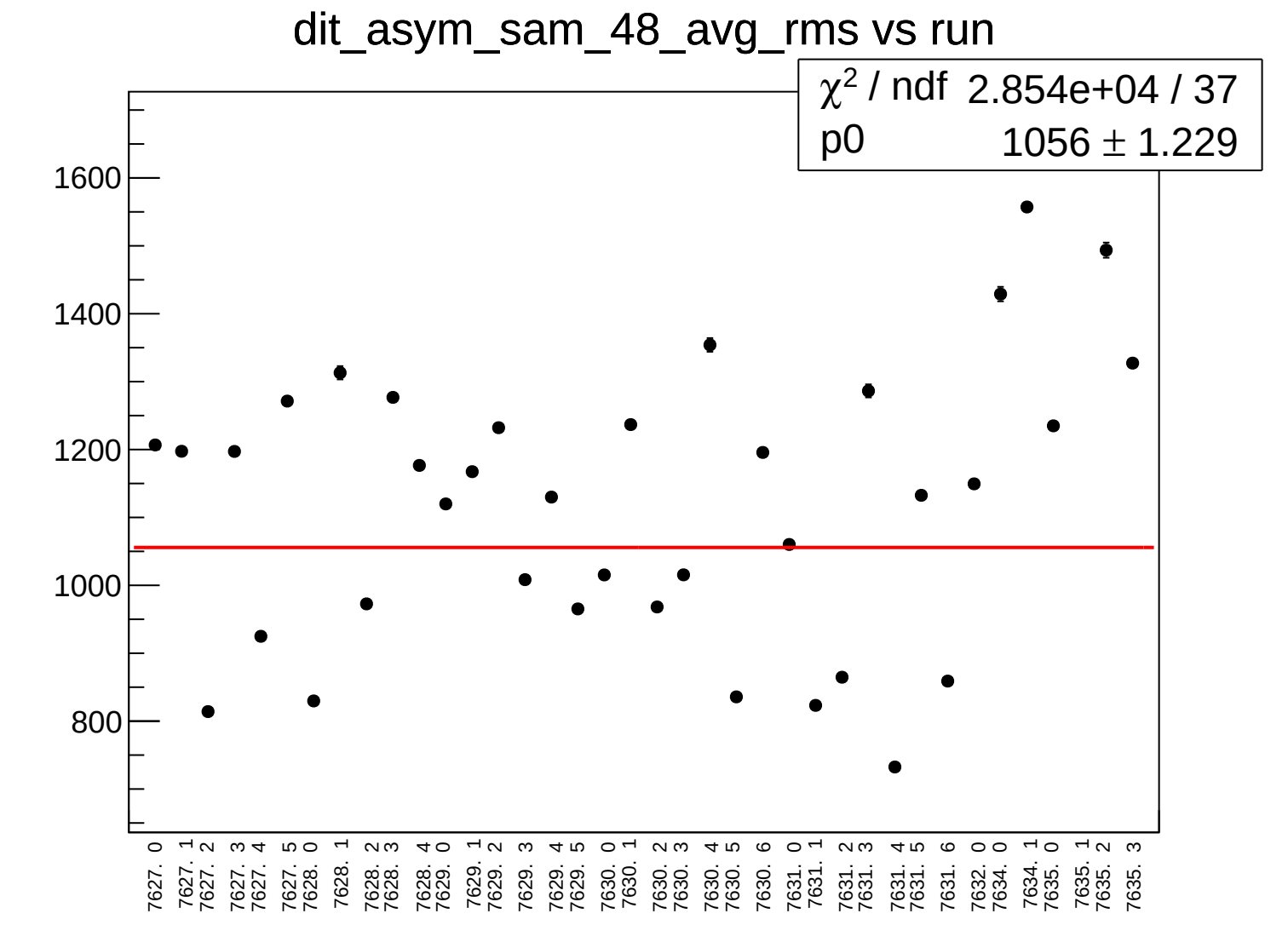

asym_sam_37_avg_mean vs run
χ² / ndf 35.02 / 37
p0 −4050 ± 4370
×10³
100
50
0
−50
−100
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 94.47
Std Dev 70.08
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

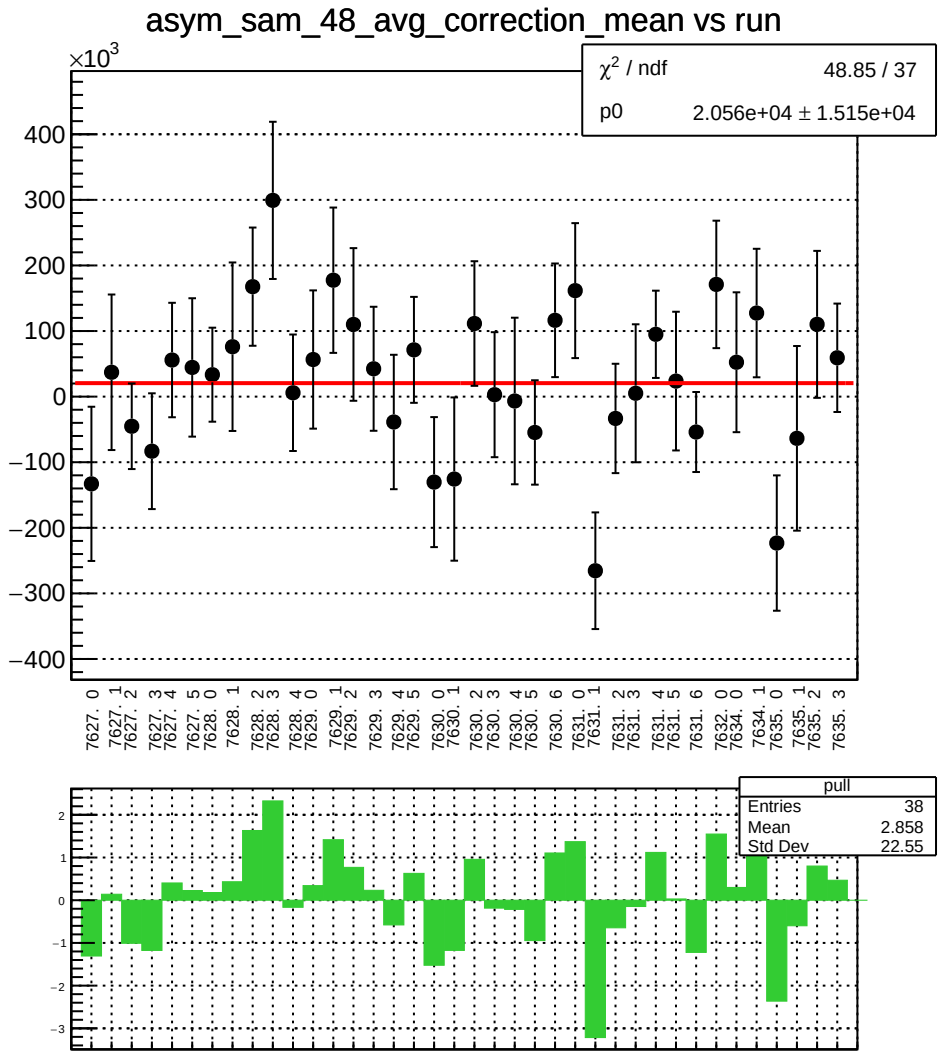

pull1D
Entries 38
Mean 0.02123
Std Dev 0.9598
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

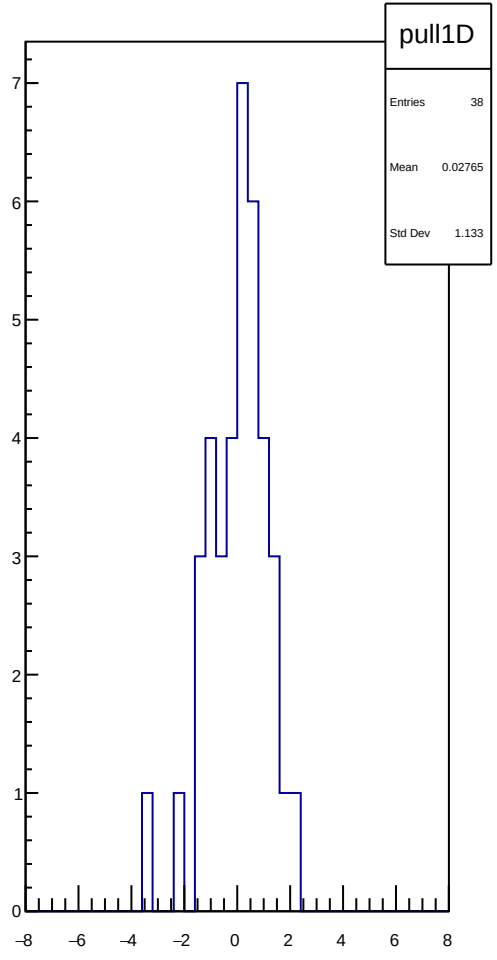

asym_sam_37_avg_rms vs run
χ² / ndf 1.31e+04 / 37
p0 2682 ± 3.09
4200
4000
3800
3600
3400
3200
3000
2800
2600
2400
2200
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

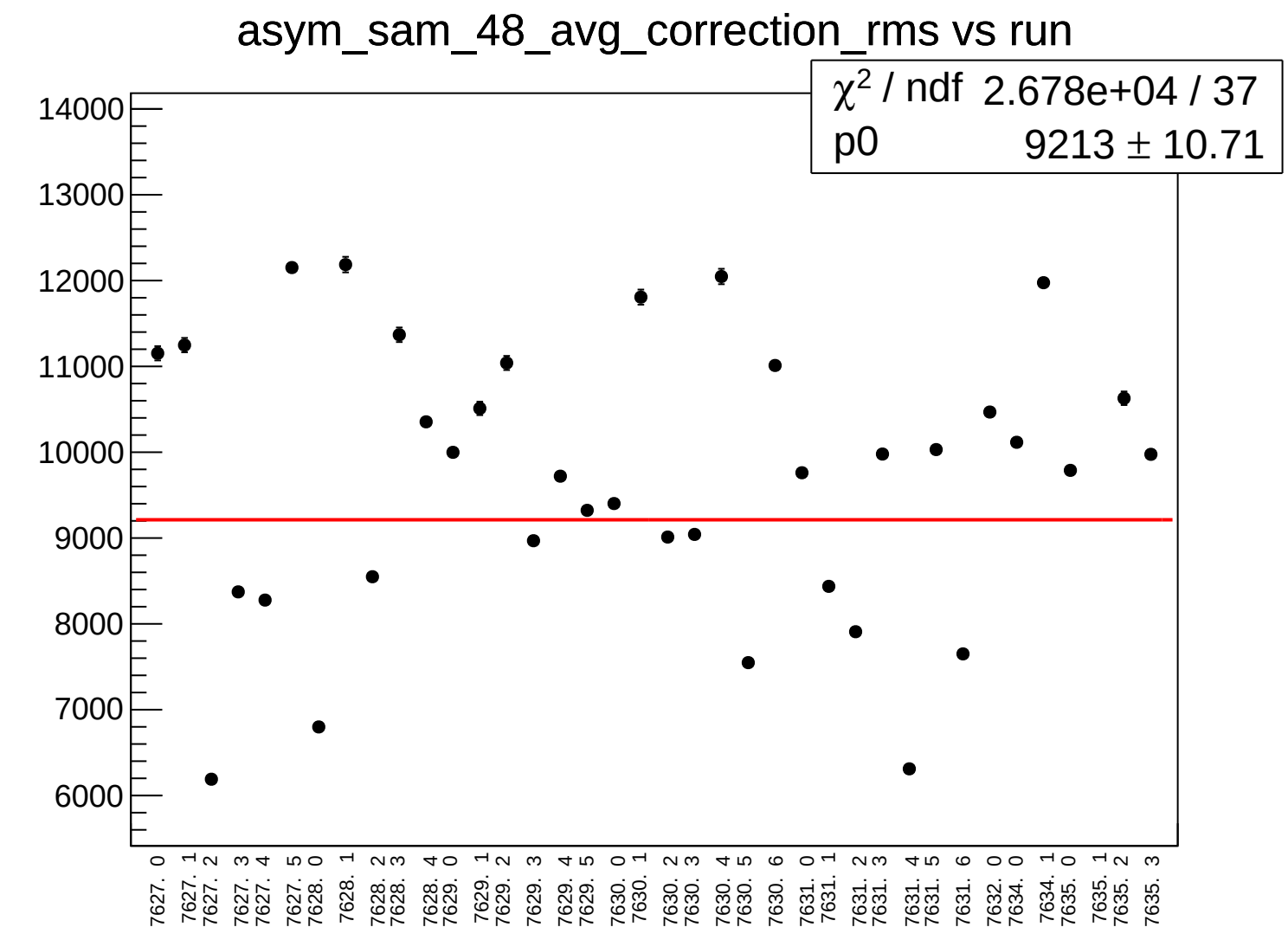

dit_asym_sam_48_avg_mean vs run
χ² / ndf 27.56 / 37
p0 6.417 ± 1738
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 4
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −12.88
Std Dev 30.3
1.5
1
0.5
0
−0.5
−1
−1.5

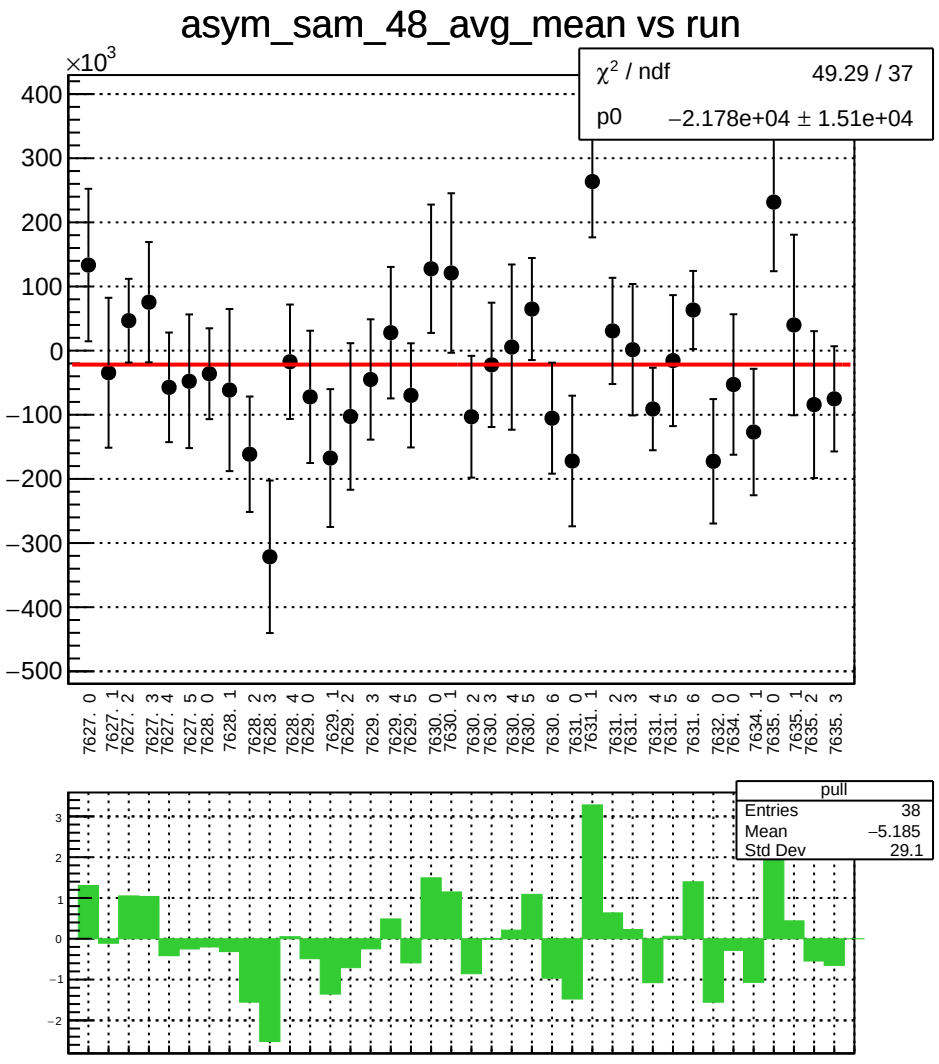

pull1D
Entries 38
Mean −0.03512
Std Dev 0.851
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

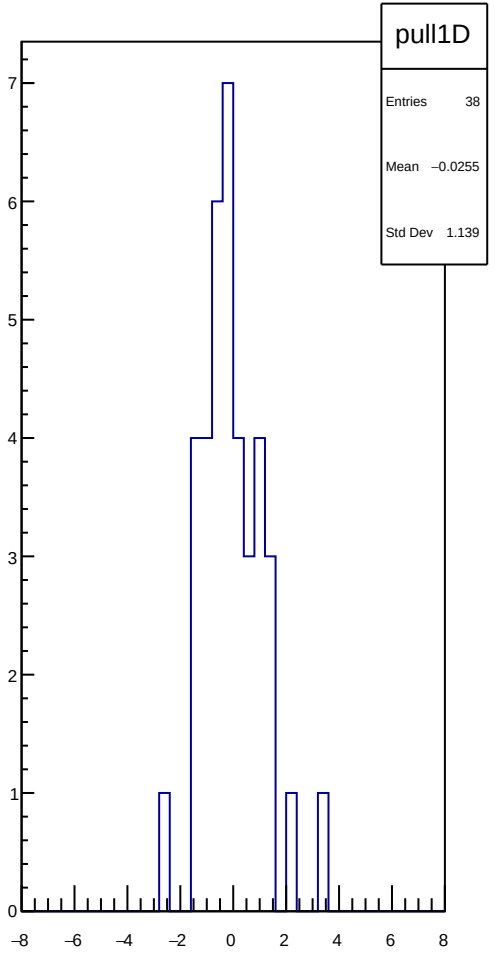

dit_asym_sam_48_avg_rms vs run
χ² / ndf 2.854e+04 / 37
p0 1056 ± 1.229
1600
1400
1200
1000
800
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

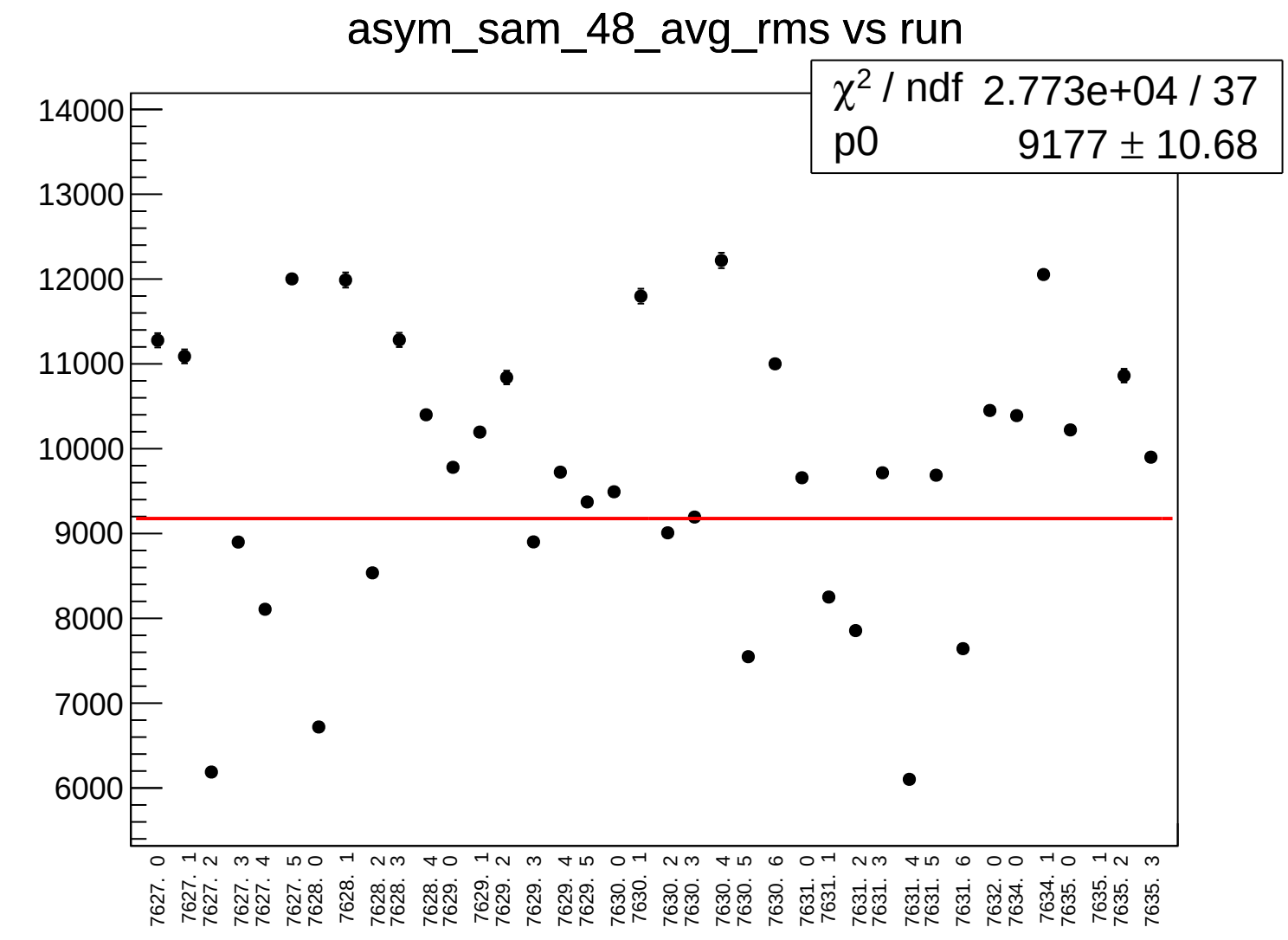

asym_sam_48_avg_correction_mean vs run
×10^3
χ² / ndf 48.85 / 37
p0 2.056e+04 ± 1.515e+04
400
300
200
100
0
−100
−200
−300
−400
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 2.858
Std Dev 22.55
2
1
0
−1
−2
−3

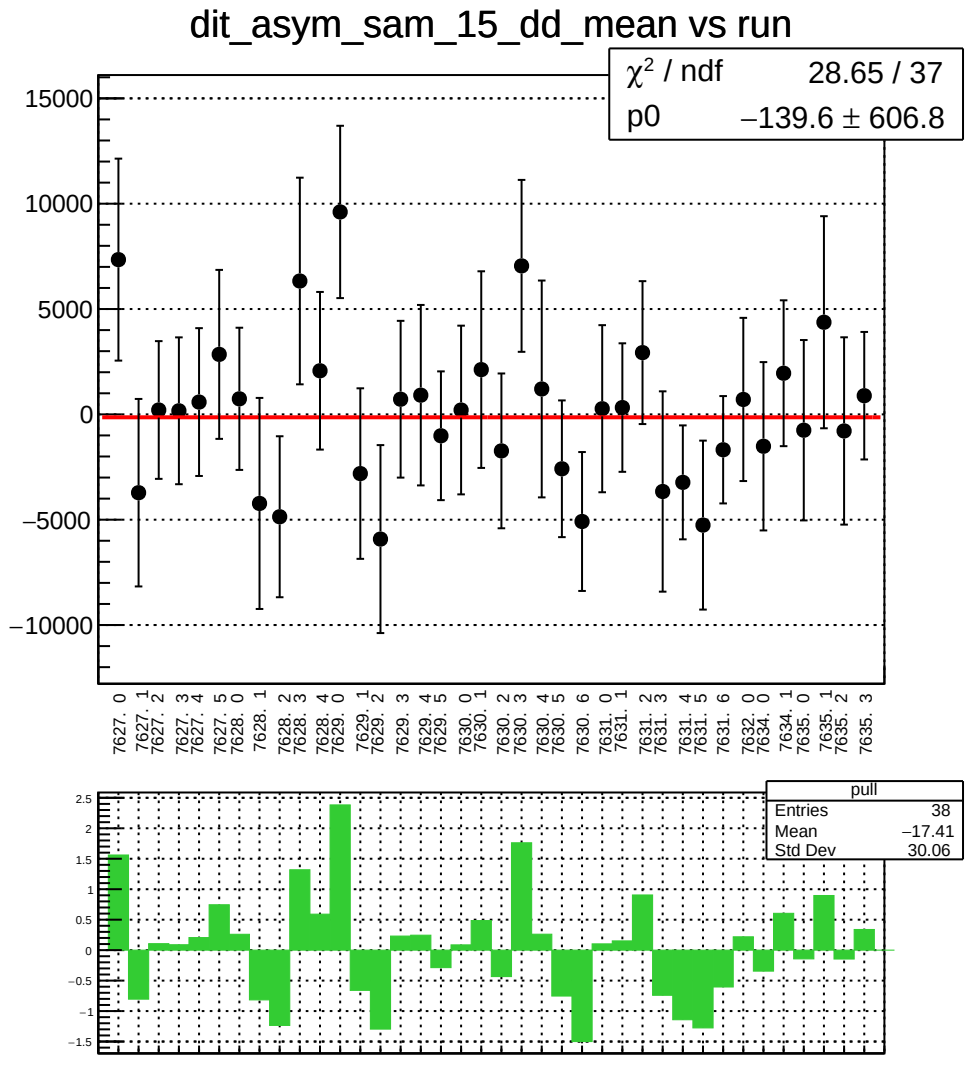

pull1D
Entries 38
Mean 0.02765
Std Dev 1.133
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

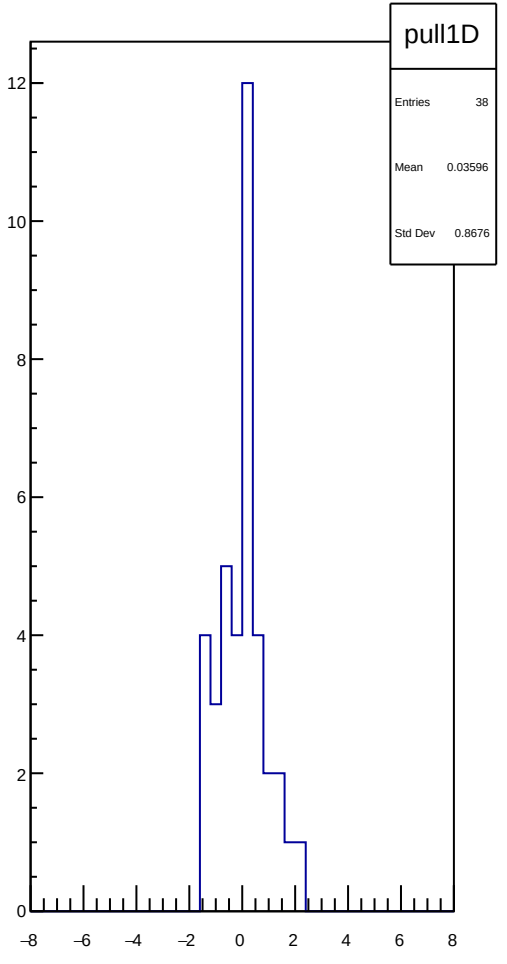

asym_sam_48_avg_correction_rms vs run
χ² / ndf 2.678e+04 / 37
p0 9213 ± 10.71
14000
13000
12000
11000
10000
9000
8000
7000
6000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

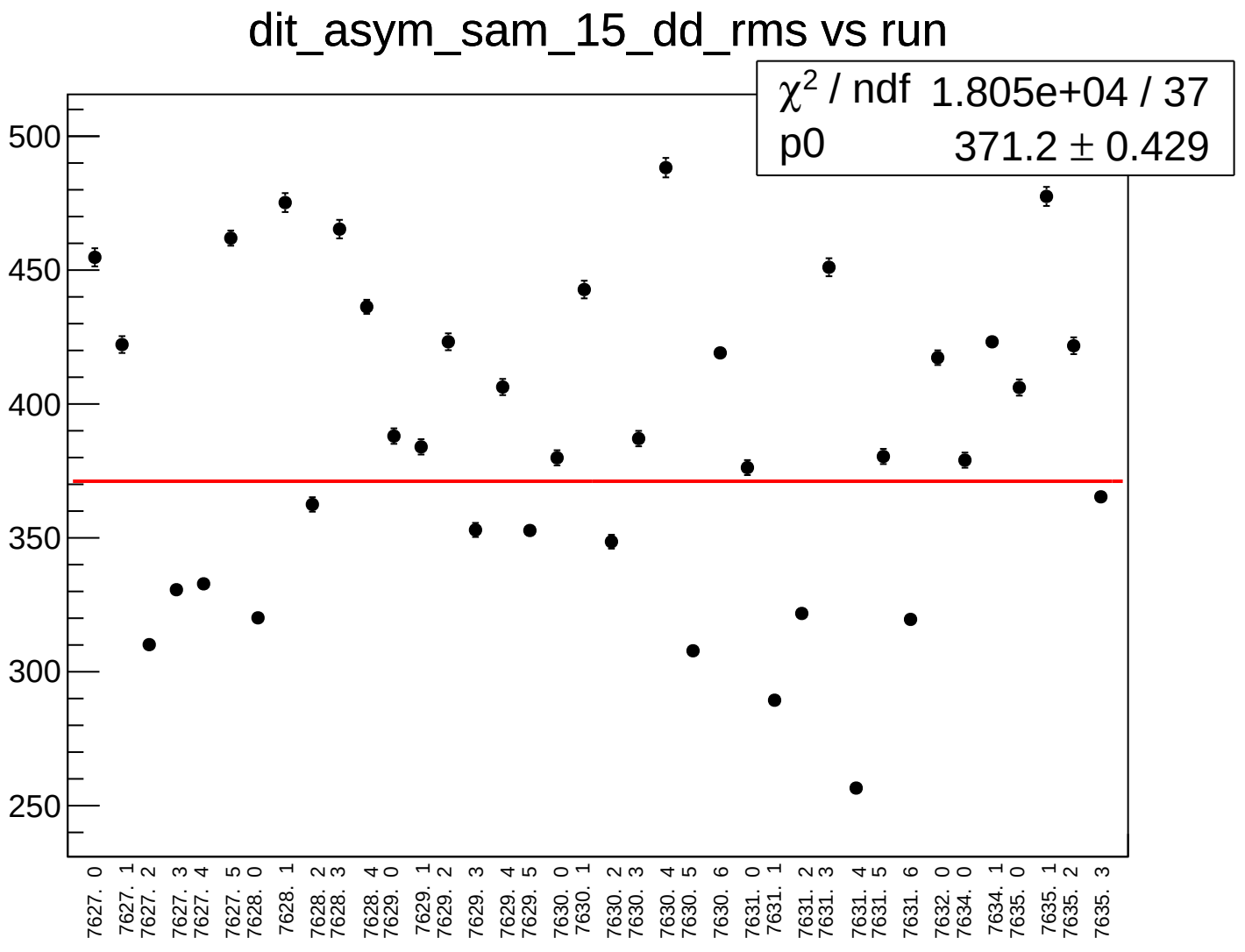

asym_sam_48_avg_mean vs run
×10^3
χ² / ndf 49.29 / 37
p0 −2.178e+04 ± 1.51e+04
pull
Entries 38
Mean −5.185
Std Dev 29.1

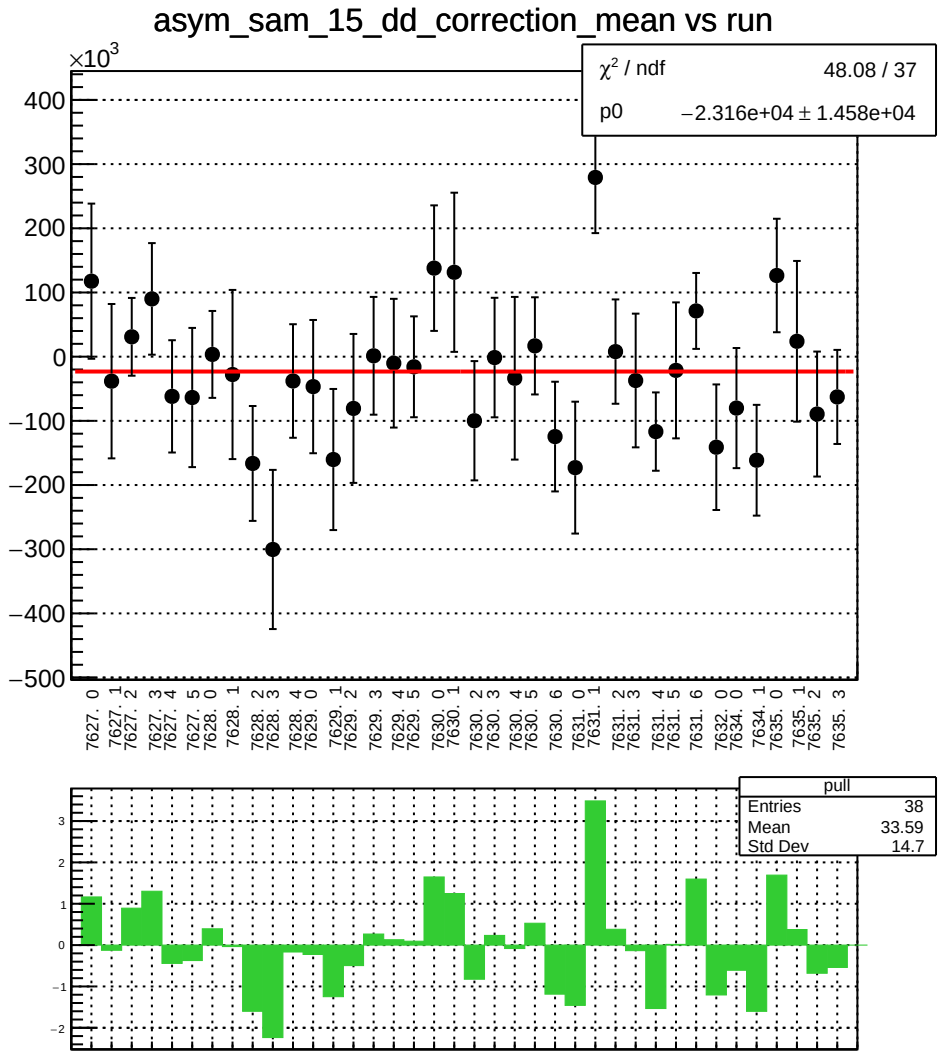

pull1D
Entries 38
Mean −0.0255
Std Dev 1.139

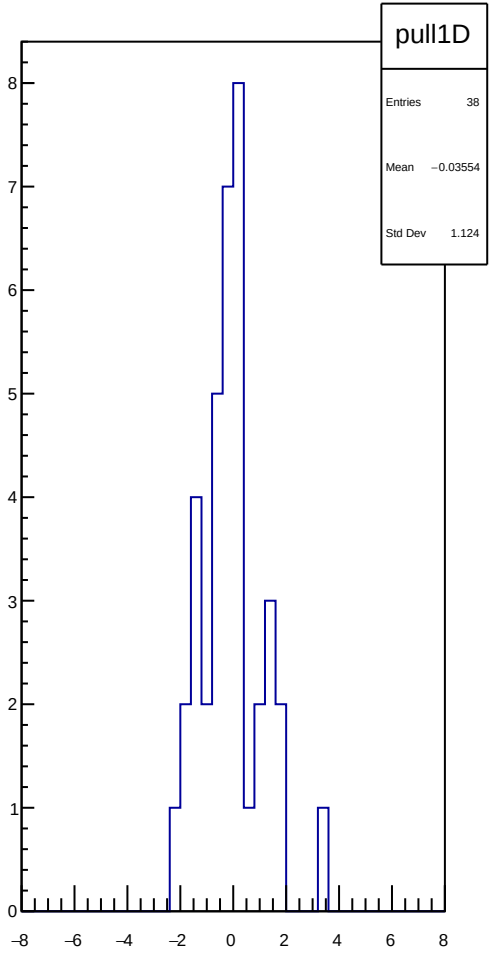

asym_sam_48_avg_rms vs run
χ² / ndf 2.773e+04 / 37
p0 9177 ± 10.68
14000
13000
12000
11000
10000
9000
8000
7000
6000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

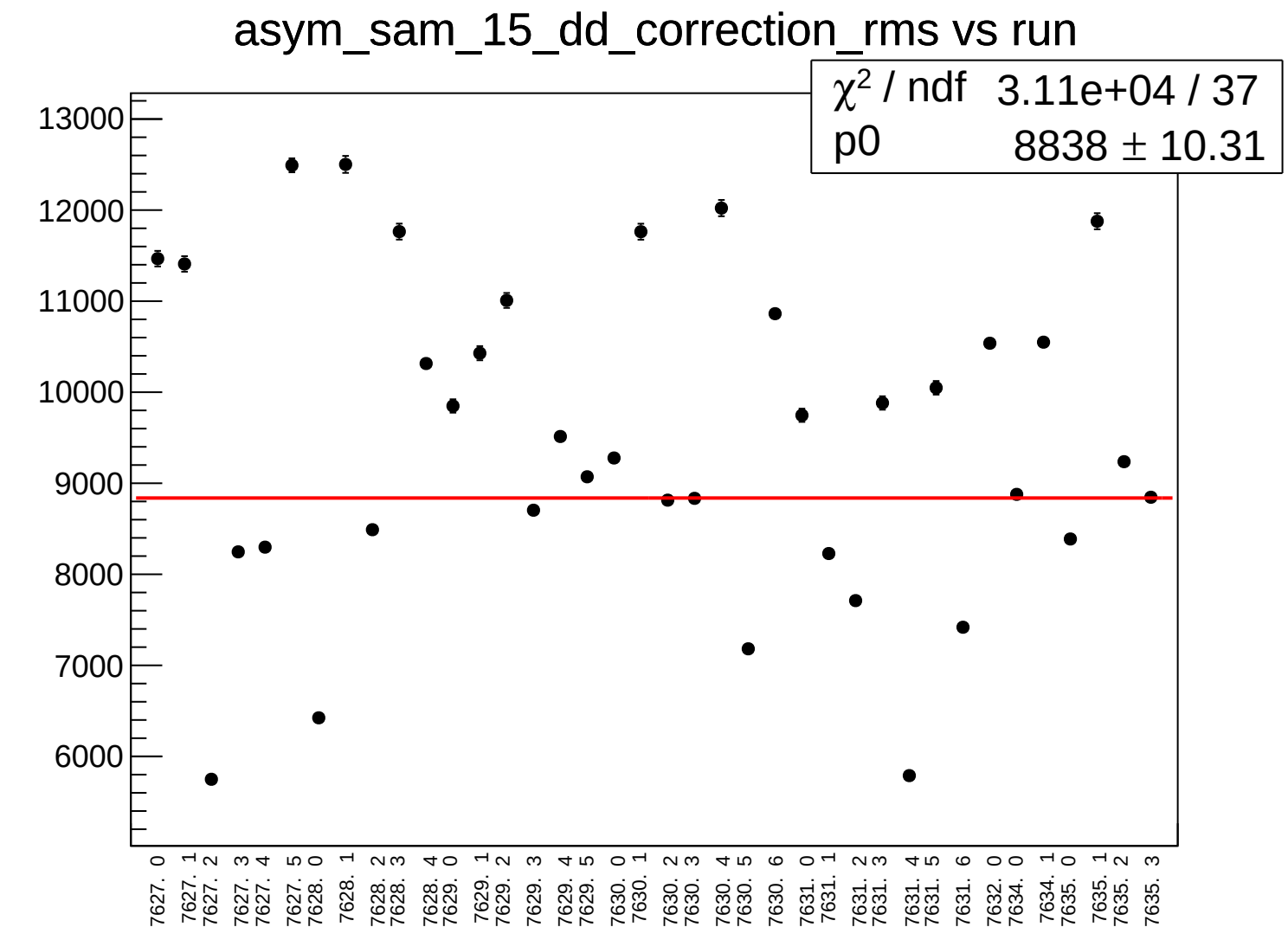

dit_asym_sam_15_dd_mean vs run
χ² / ndf 28.65 / 37
p0 −139.6 ± 606.8
15000
10000
5000
0
−5000
−10000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 4
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −17.41
Std Dev 30.06
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

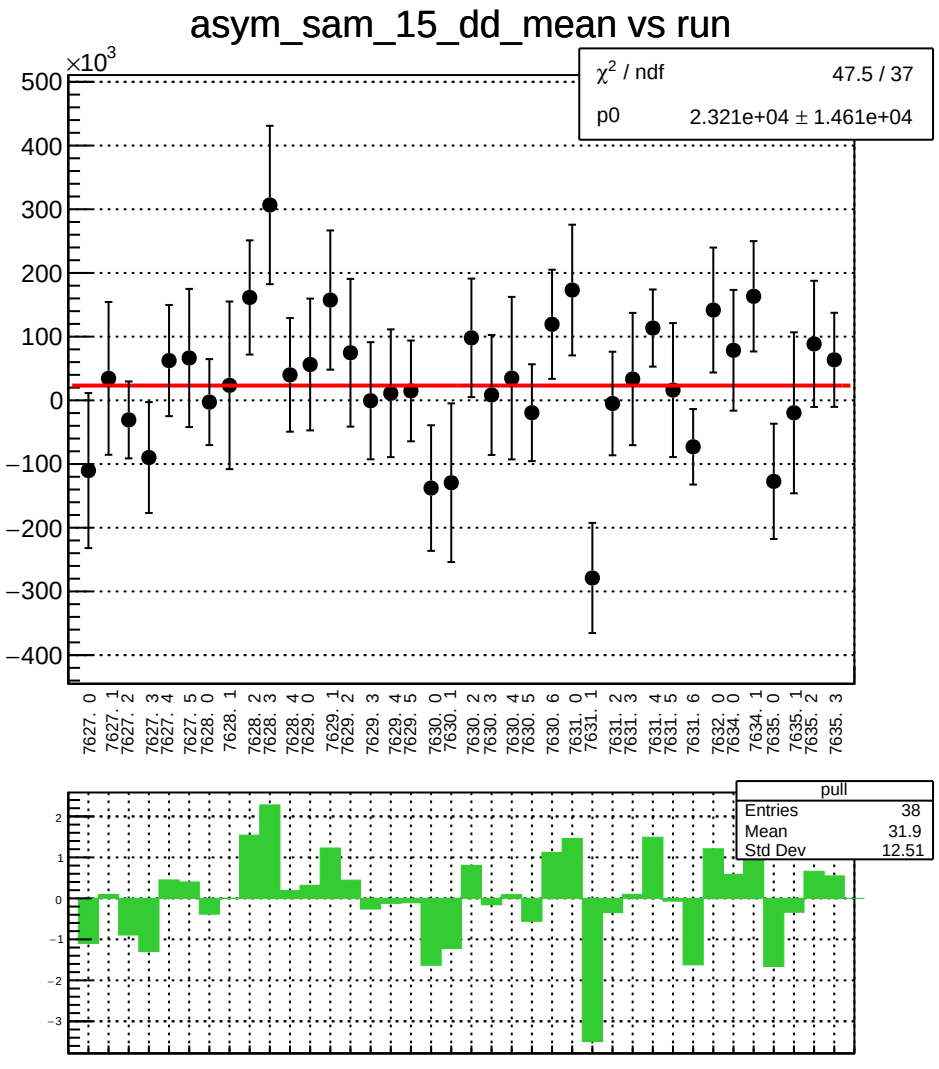

pull1D
Entries 38
Mean 0.03596
Std Dev 0.8676
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

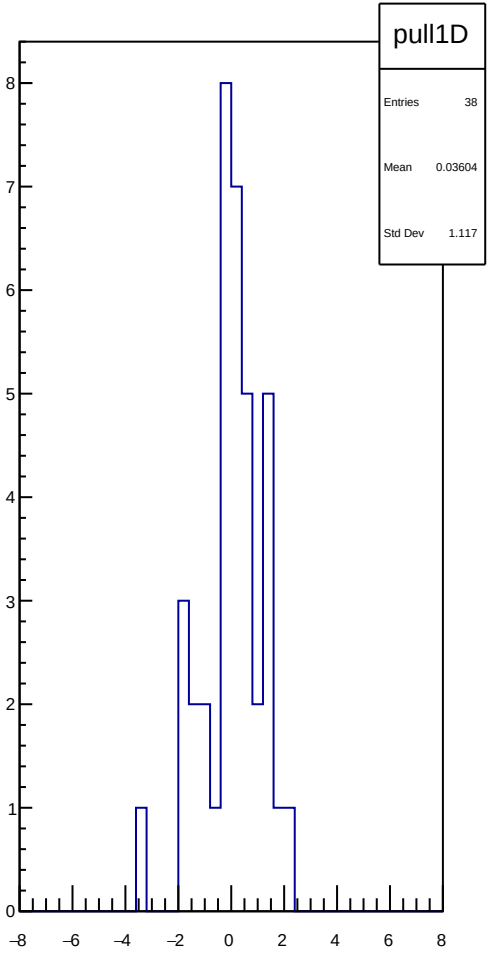

dit_asym_sam_15_dd_rms vs run
χ² / ndf 1.805e+04 / 37
p0 371.2 ± 0.429
500
450
400
350
300
250
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

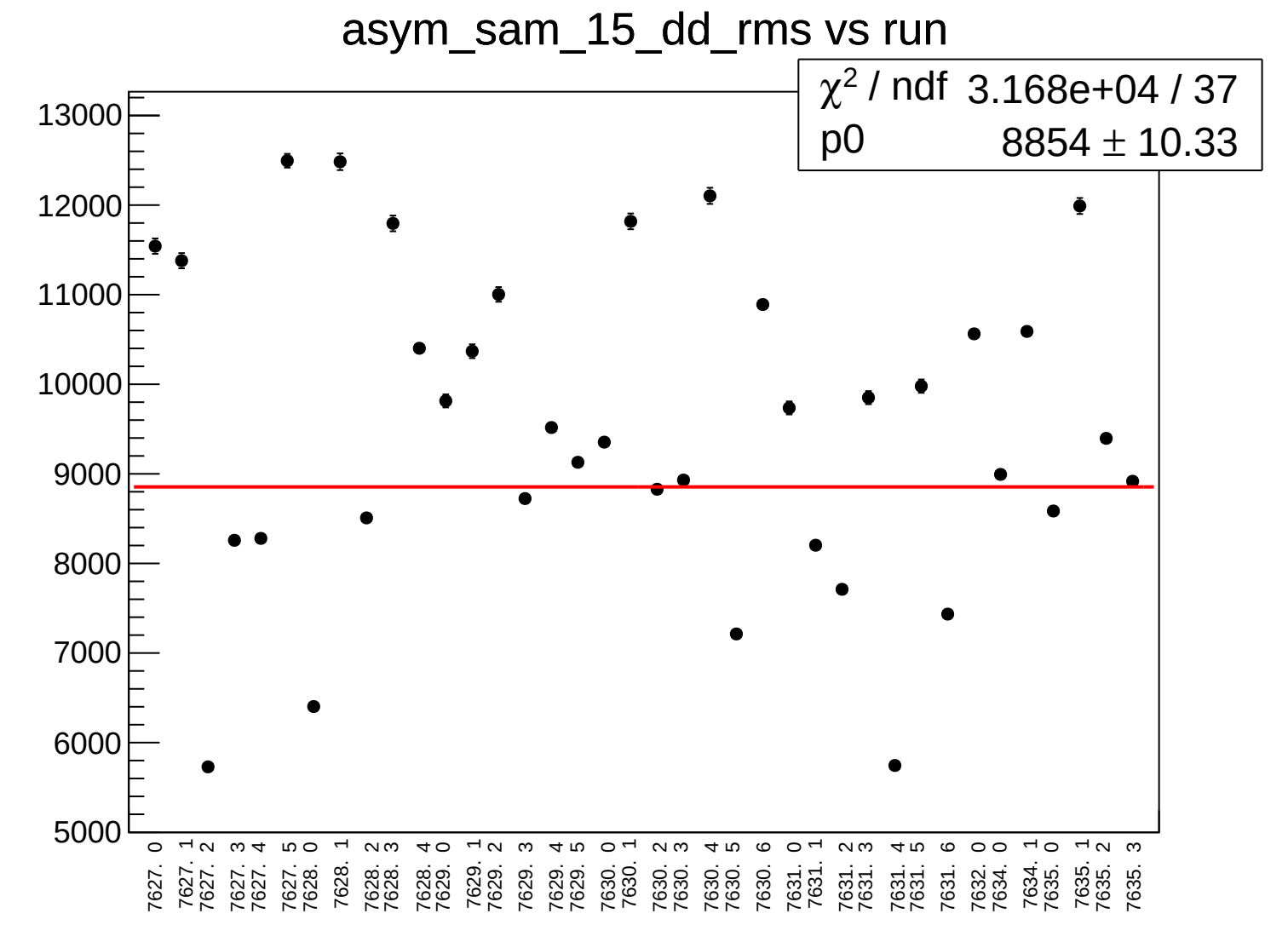

asym_sam_15_dd_correction_mean vs run
×10^3
χ² / ndf 48.08 / 37
p0 −2.316e+04 ± 1.458e+04
pull
Entries 38
Mean 33.59
Std Dev 14.7

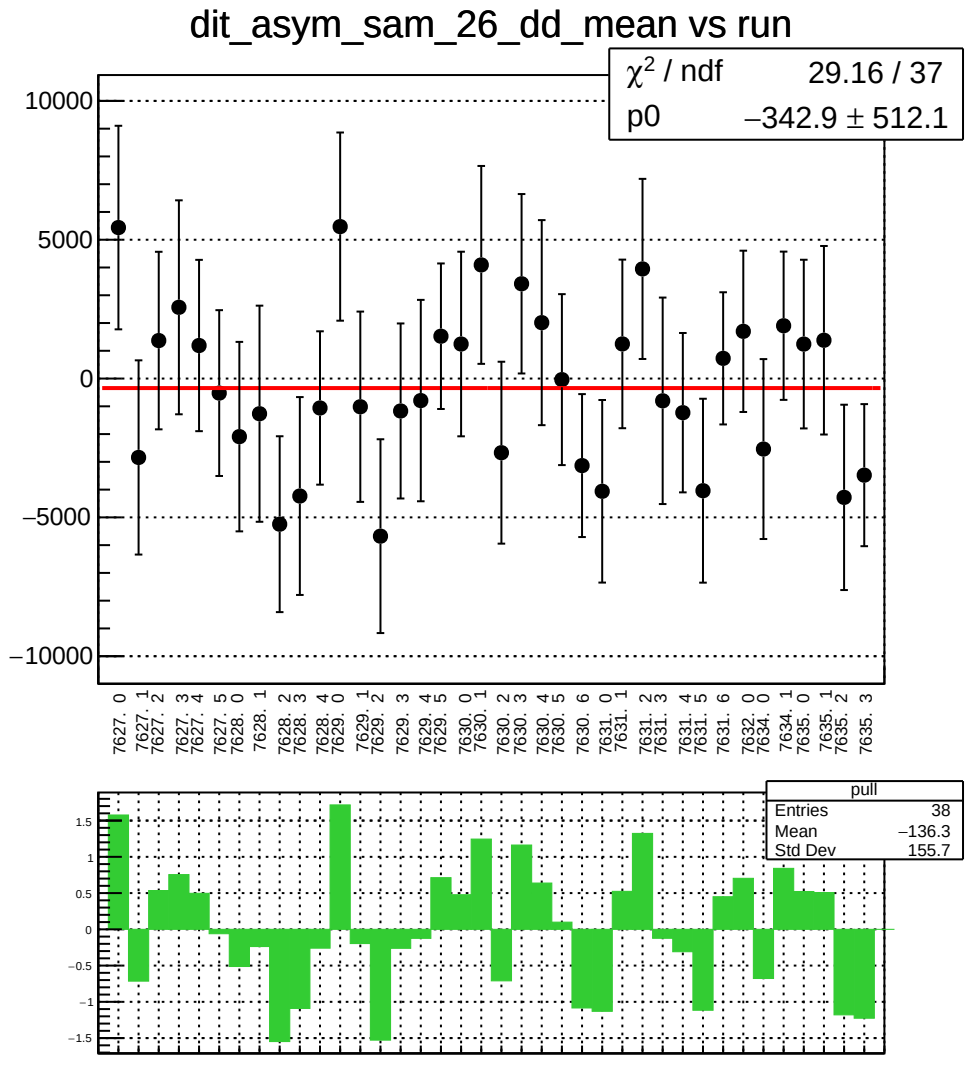

pull1D
Entries 38
Mean −0.03554
Std Dev 1.124

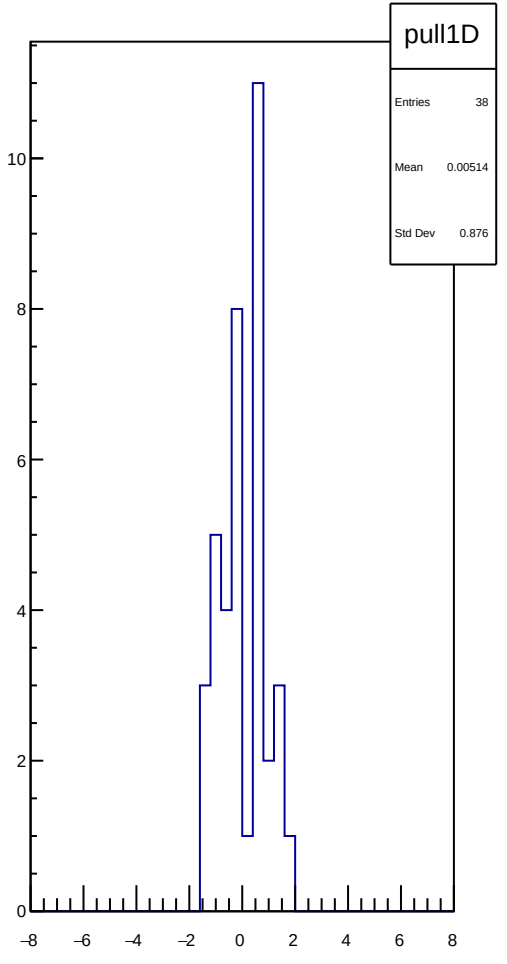

asym_sam_15_dd_correction_rms vs run
χ² / ndf 3.11e+04 / 37
p0 8838 ± 10.31
13000
12000
11000
10000
9000
8000
7000
6000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

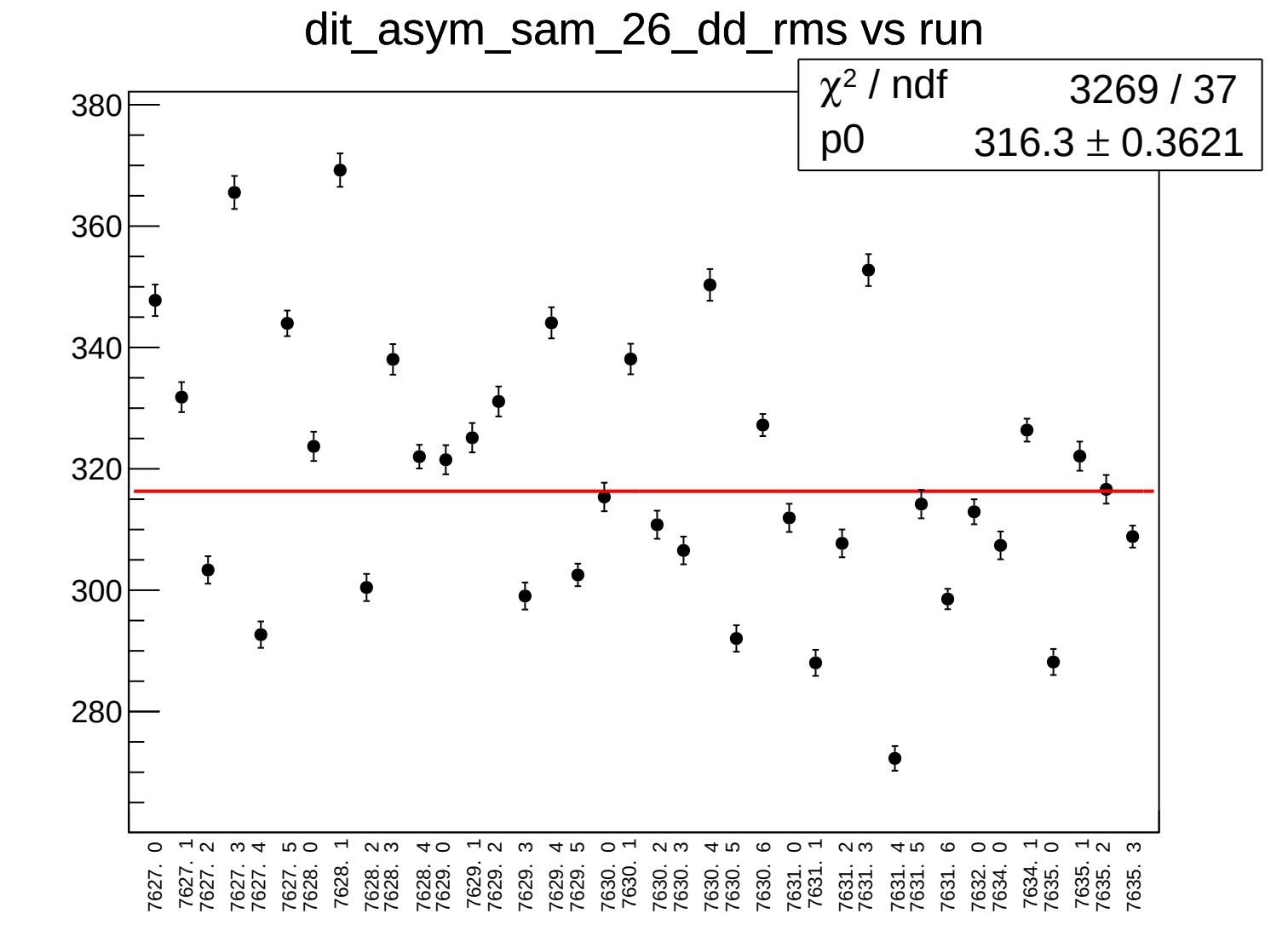

asym_sam_15_dd_mean vs run
×10^3
χ² / ndf 47.5 / 37
p0 2.321e+04 ± 1.461e+04
pull
Entries 38
Mean 31.9
Std Dev 12.51

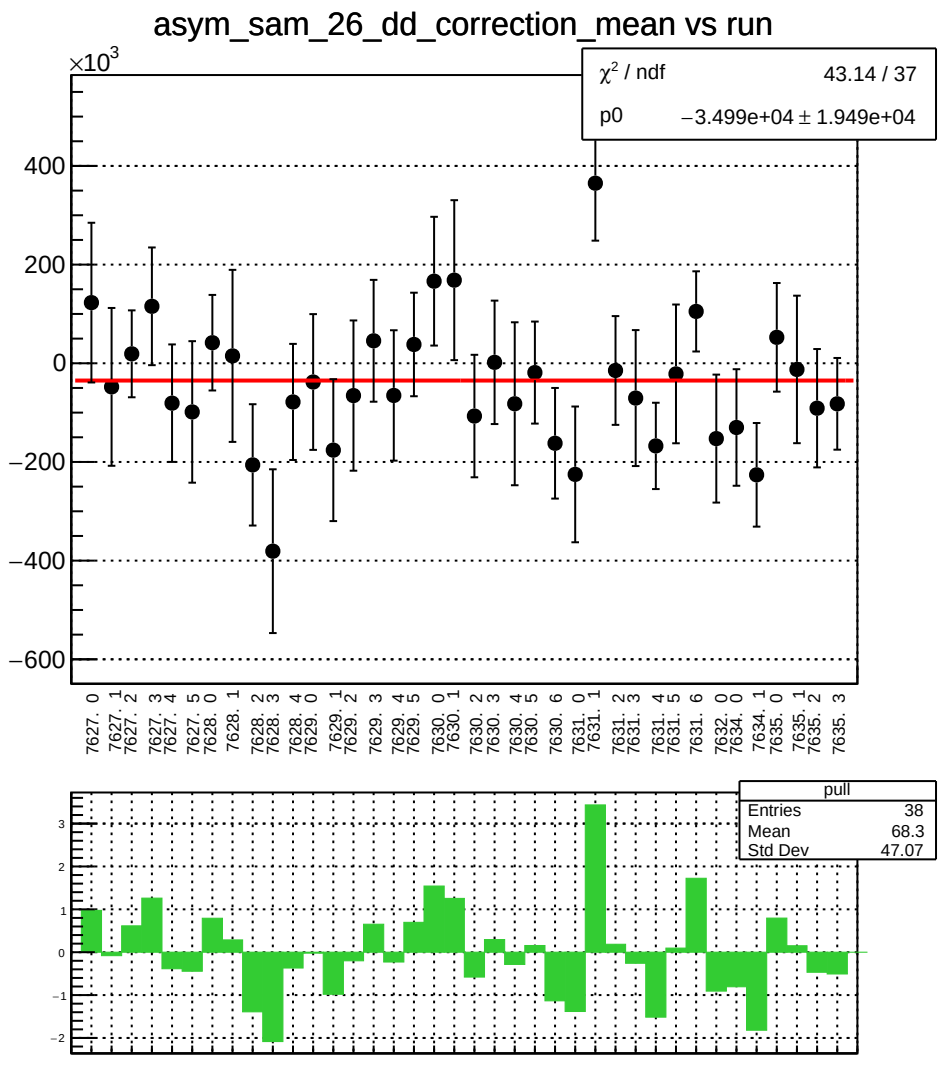

pull1D
Entries 38
Mean 0.03604
Std Dev 1.117

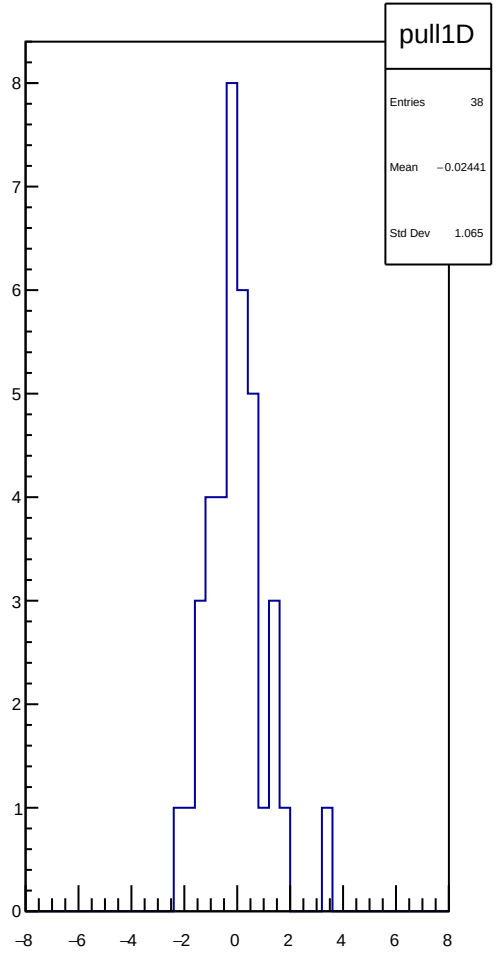

asym_sam_15_dd_rms vs run
χ² / ndf 3.168e+04 / 37
p0 8854 ± 10.33
13000
12000
11000
10000
9000
8000
7000
6000
5000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

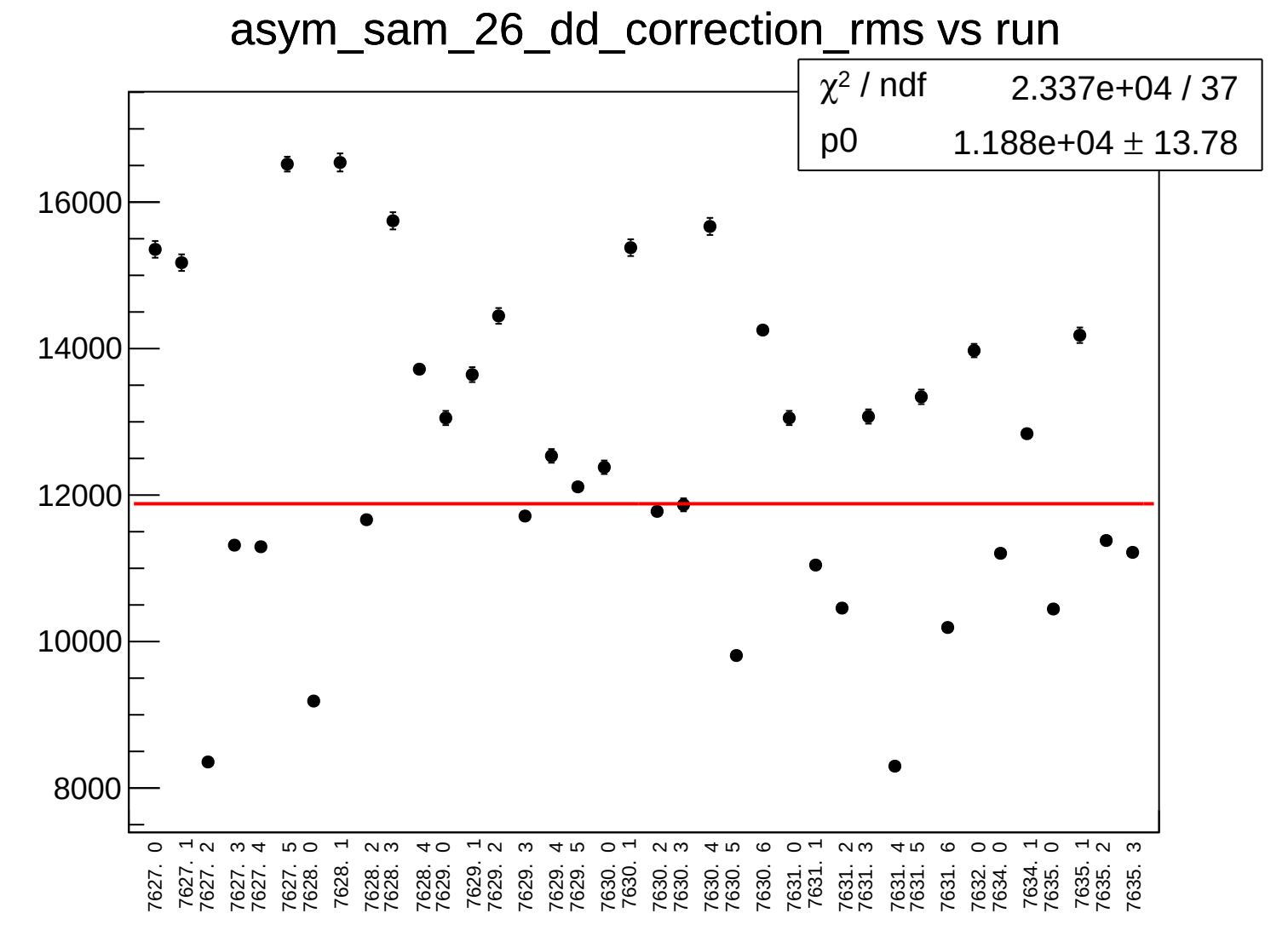

dit_asym_sam_26_dd_mean vs run
χ² / ndf 29.16 / 37
p0 −342.9 ± 512.1
10000
5000
0
−5000
−10000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −136.3
Std Dev 155.7
1.5
1
0.5
0
−0.5
−1
−1.5

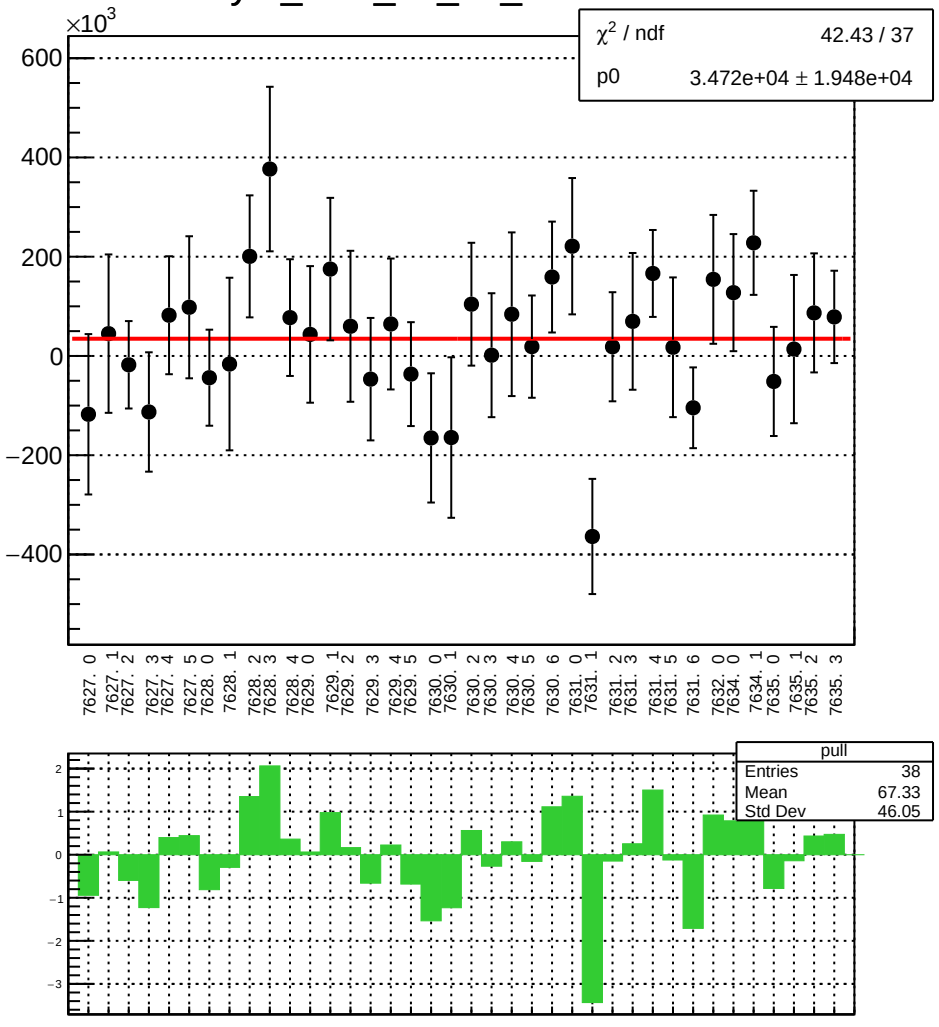

pull1D
Entries 38
Mean 0.00514
Std Dev 0.876
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

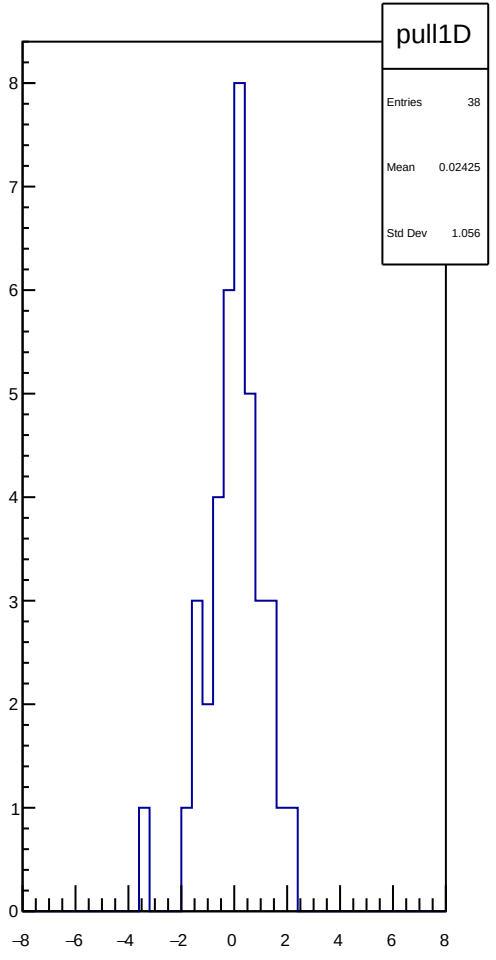

dit_asym_sam_26_dd_rms vs run
χ² / ndf 3269 / 37
p0 316.3 ± 0.3621
380
360
340
320
300
280
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

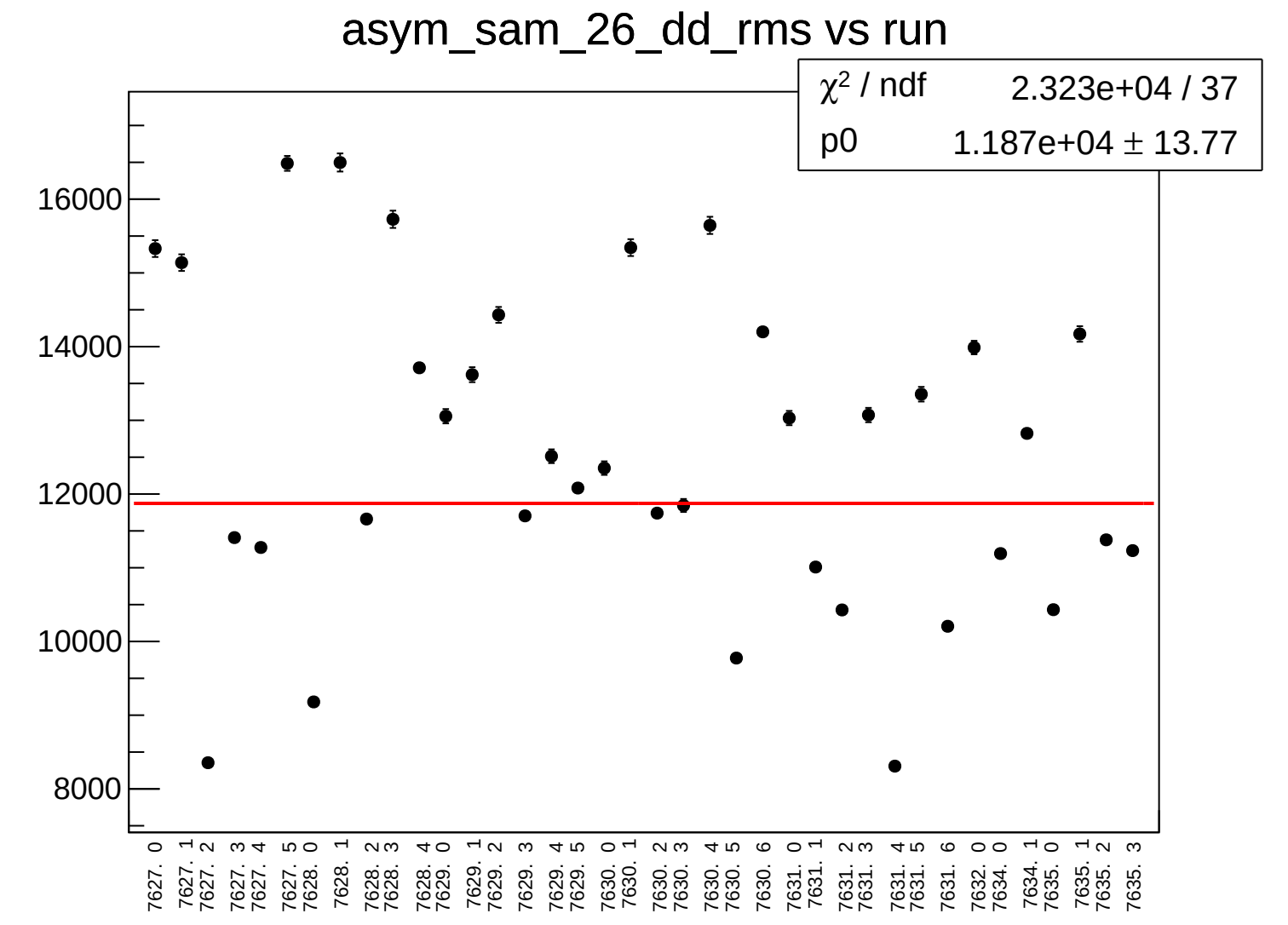

asym_sam_26_dd_correction_mean vs run
×10^3
χ² / ndf 43.14 / 37
p0 −3.499e+04 ± 1.949e+04
400
200
0
−200
−400
−600
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 68.3
Std Dev 47.07
3
2
1
0
−1
−2

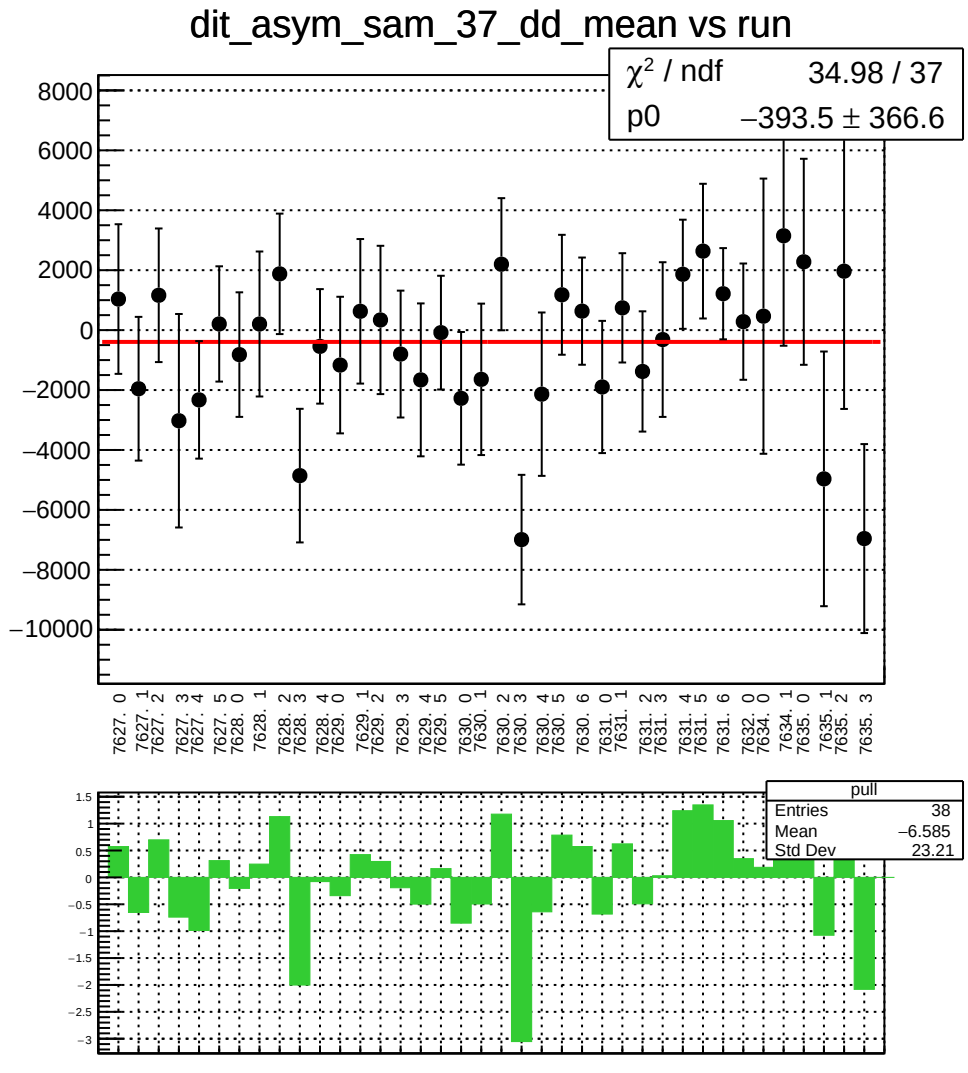

pull1D
Entries 38
Mean −0.02441
Std Dev 1.065
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

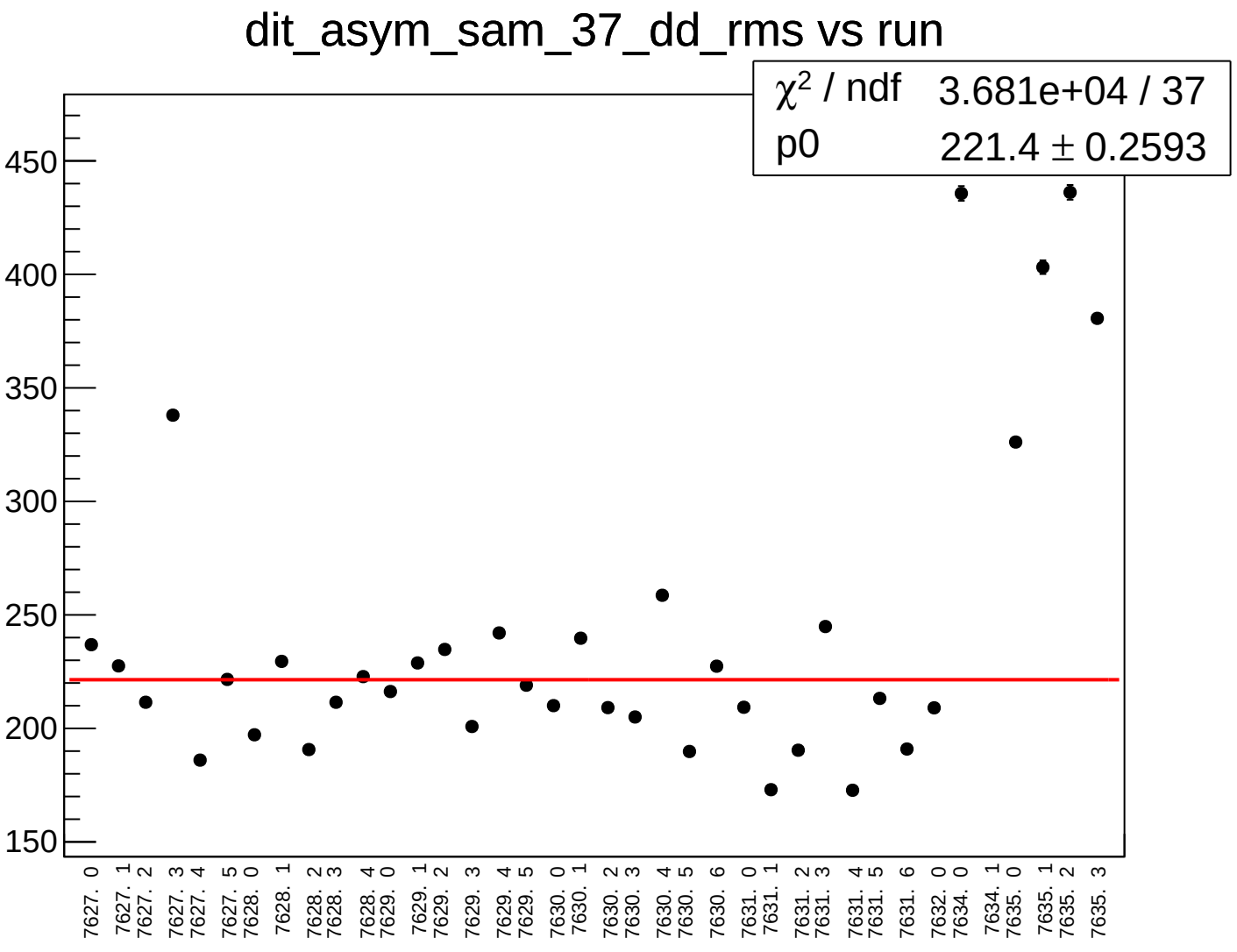

asym_sam_26_dd_correction_rms vs run
χ² / ndf 2.337e+04 / 37
p0 1.188e+04 ± 13.78
16000
14000
12000
10000
8000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

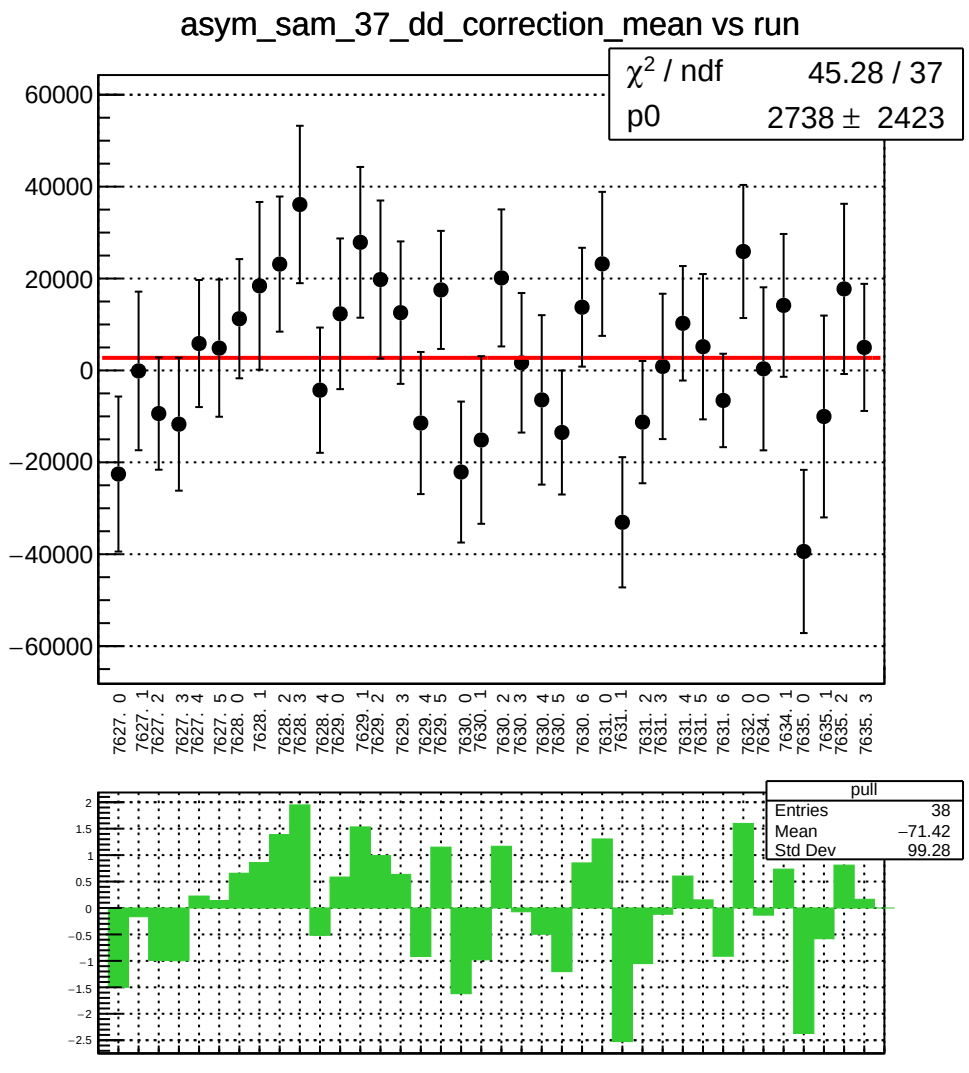

asym_sam_26_dd_mean vs run
×10^3
χ² / ndf 42.43 / 37
p0 3.472e+04 ± 1.948e+04
600
400
200
0
−200
−400
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 67.33
Std Dev 46.05
2
1
0
−1
−2
−3

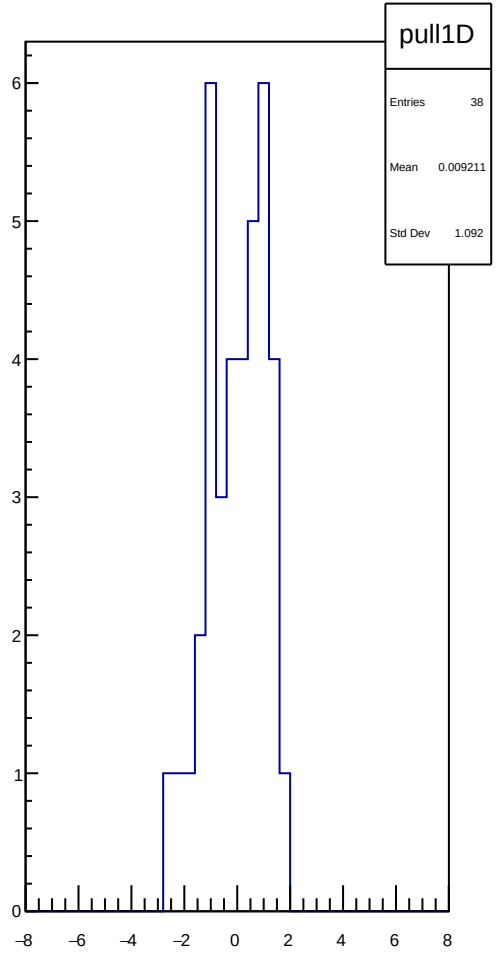

pull1D
Entries 38
Mean 0.02425
Std Dev 1.056
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

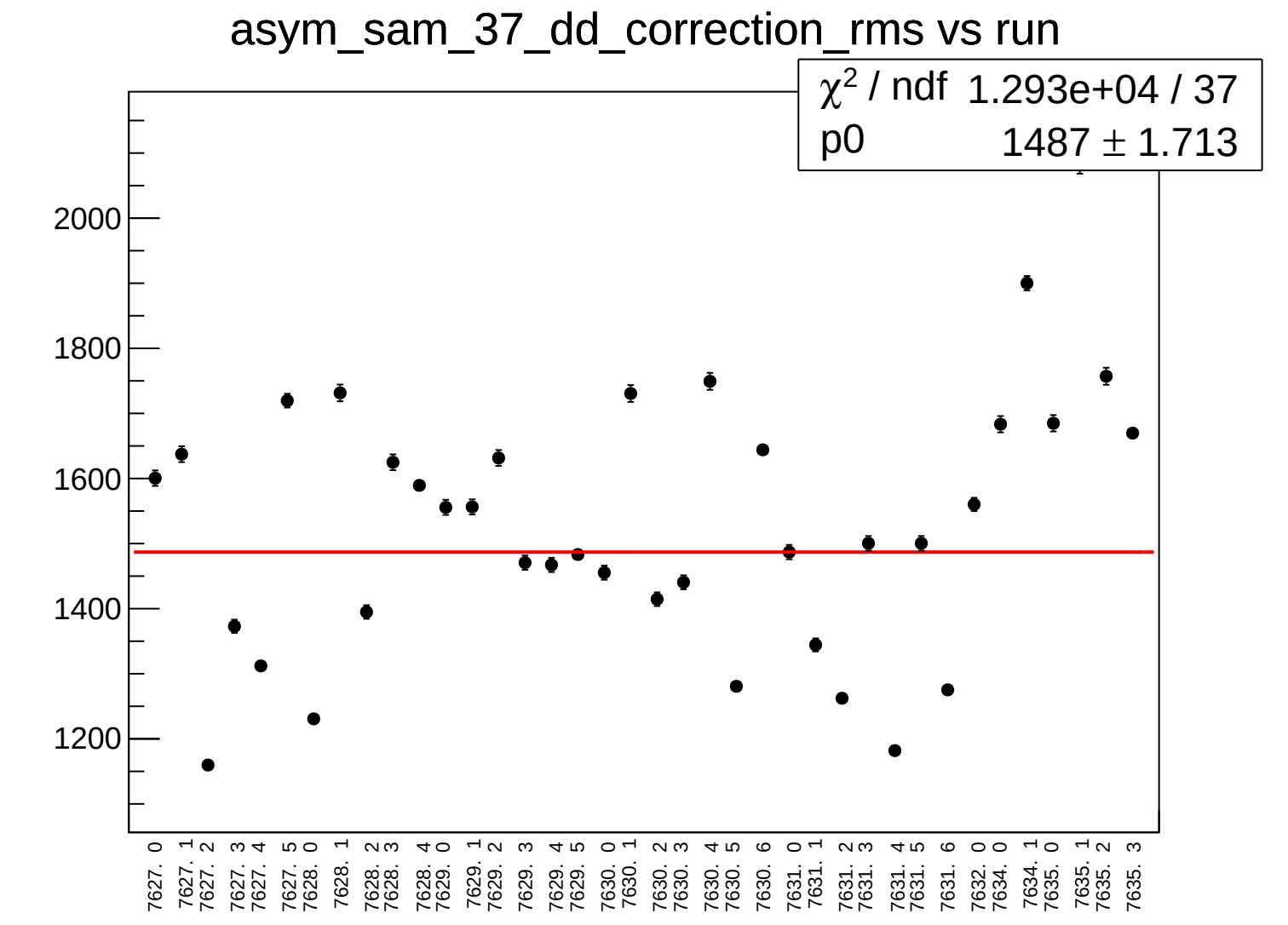

asym_sam_26_dd_rms vs run
χ² / ndf 2.323e+04 / 37
p0 1.187e+04 ± 13.77
16000
14000
12000
10000
8000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

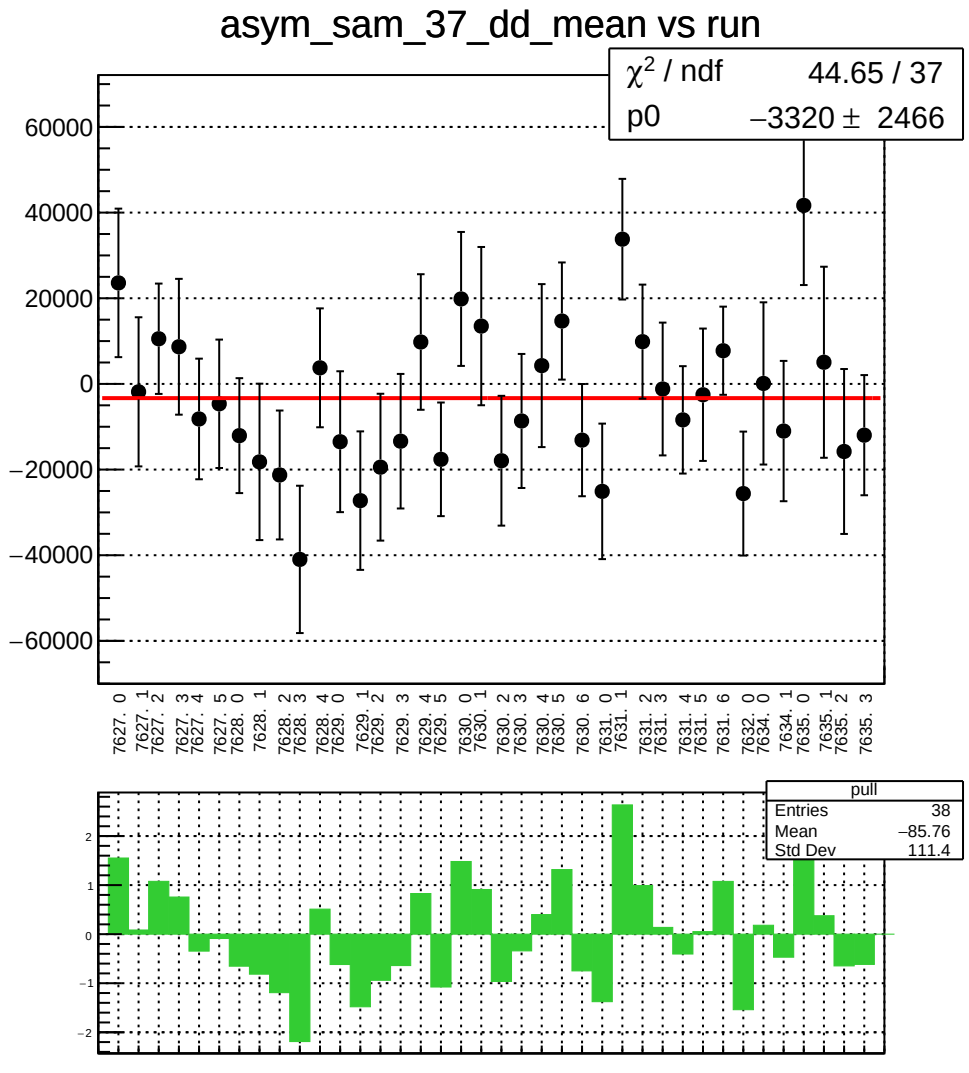

dit_asym_sam_37_dd_mean vs run
χ² / ndf 34.98 / 37
p0 −393.5 ± 366.6
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −6.585
Std Dev 23.21
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
pull1D
Entries 38
Mean −0.04175
Std Dev 0.9585
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

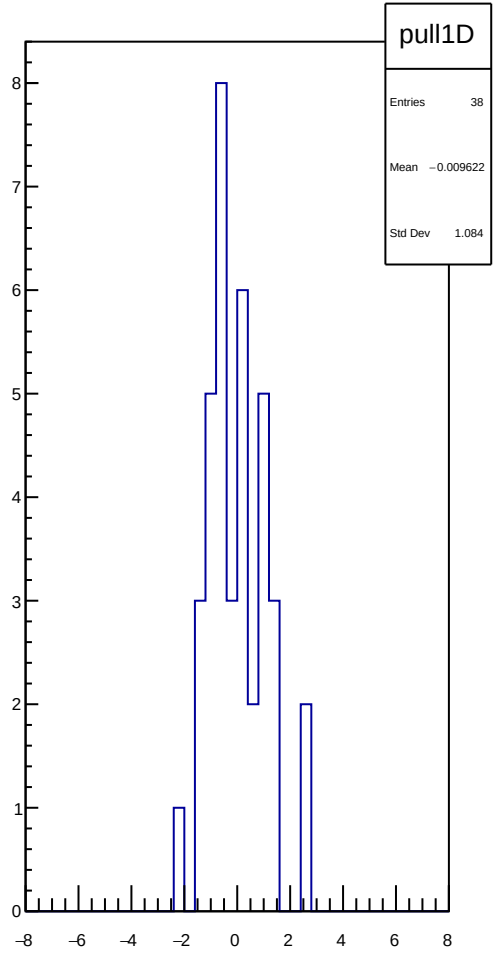

dit_asym_sam_37_dd_rms vs run
χ² / ndf 3.681e+04 / 37
p0 221.4 ± 0.2593
450
400
350
300
250
200
150
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

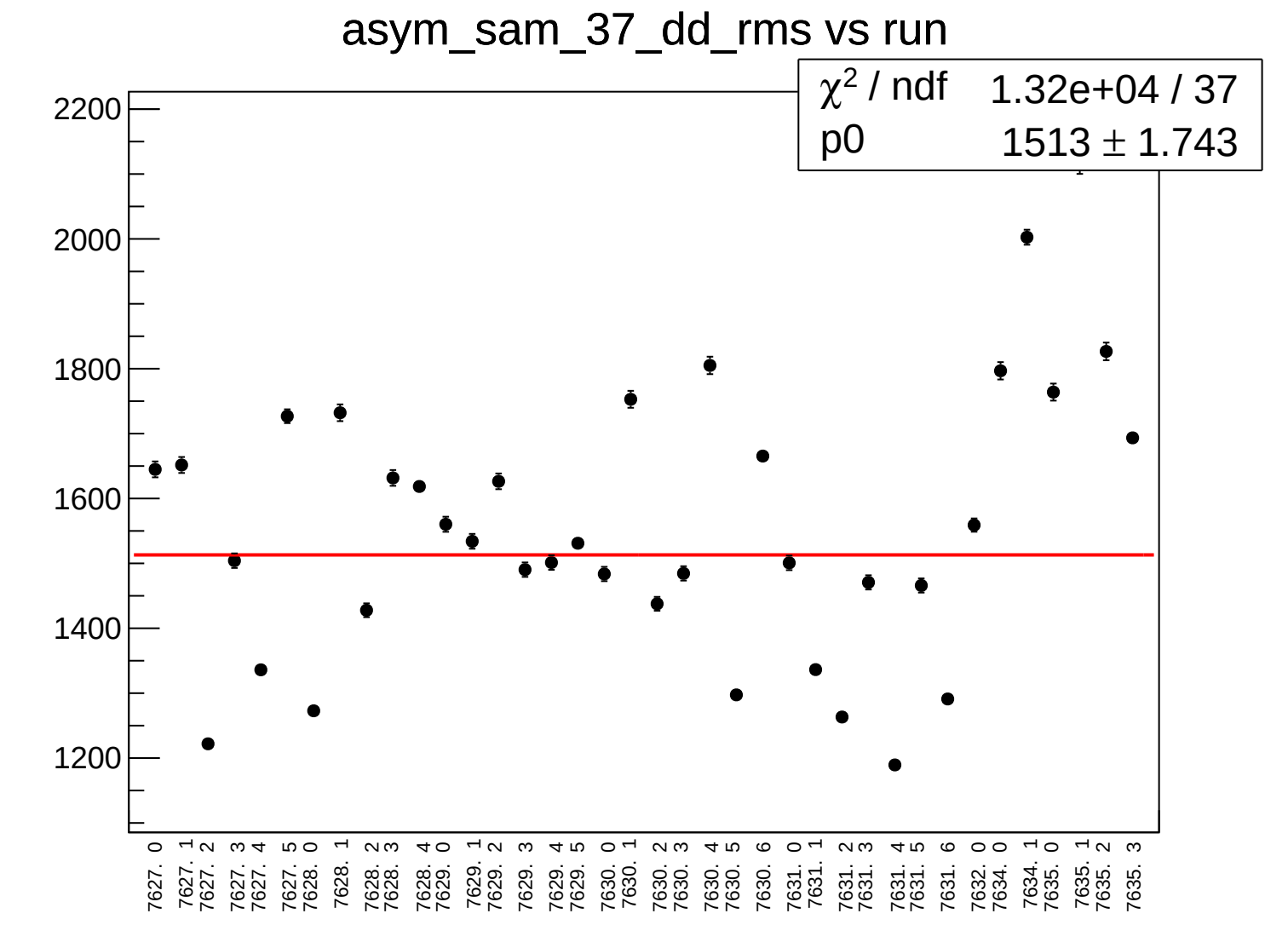

asym_sam_37_dd_correction_mean vs run
χ² / ndf 45.28 / 37
p0 2738 ± 2423
60000
40000
20000
0
−20000
−40000
−60000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −71.42
Std Dev 99.28
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

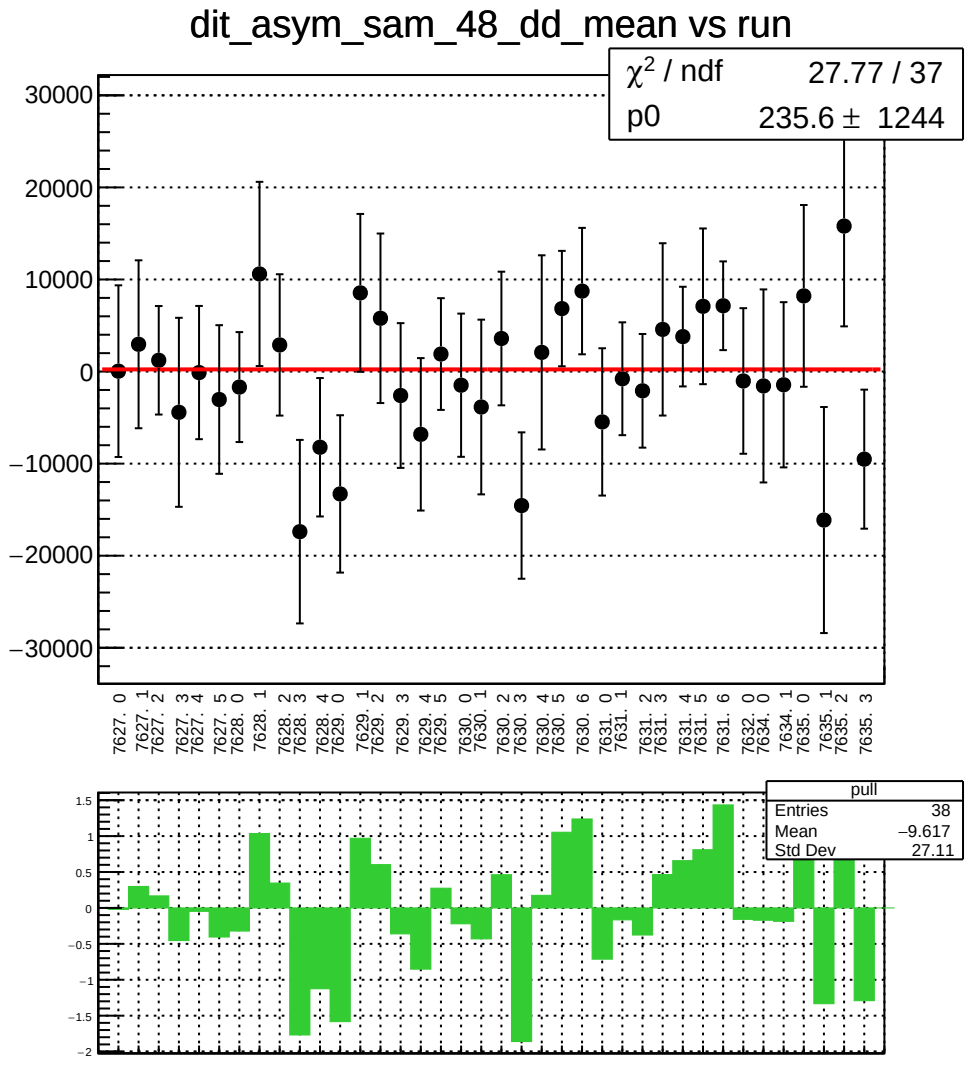

pull1D
Entries 38
Mean 0.009211
Std Dev 1.092
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

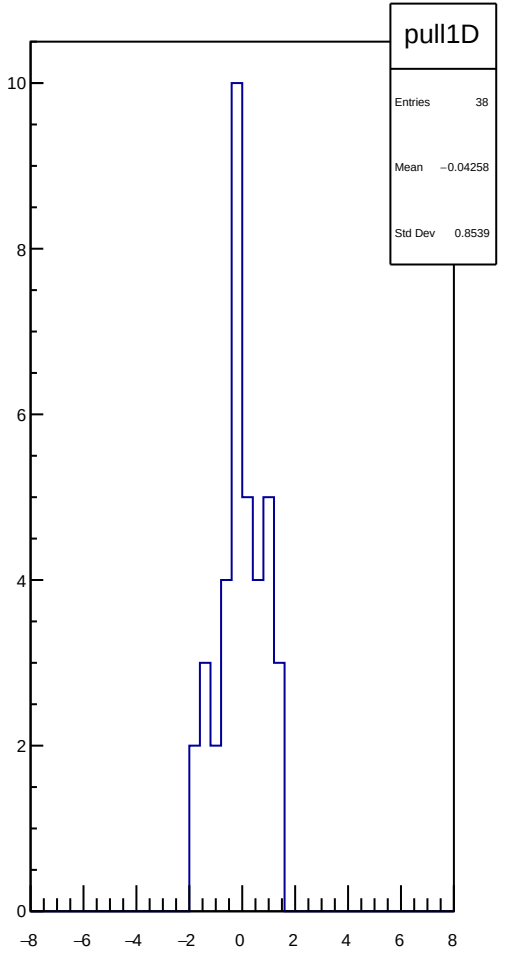

asym_sam_37_dd_correction_rms vs run
χ² / ndf 1.293e+04 / 37
p0 1487 ± 1.713
2000
1800
1600
1400
1200
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

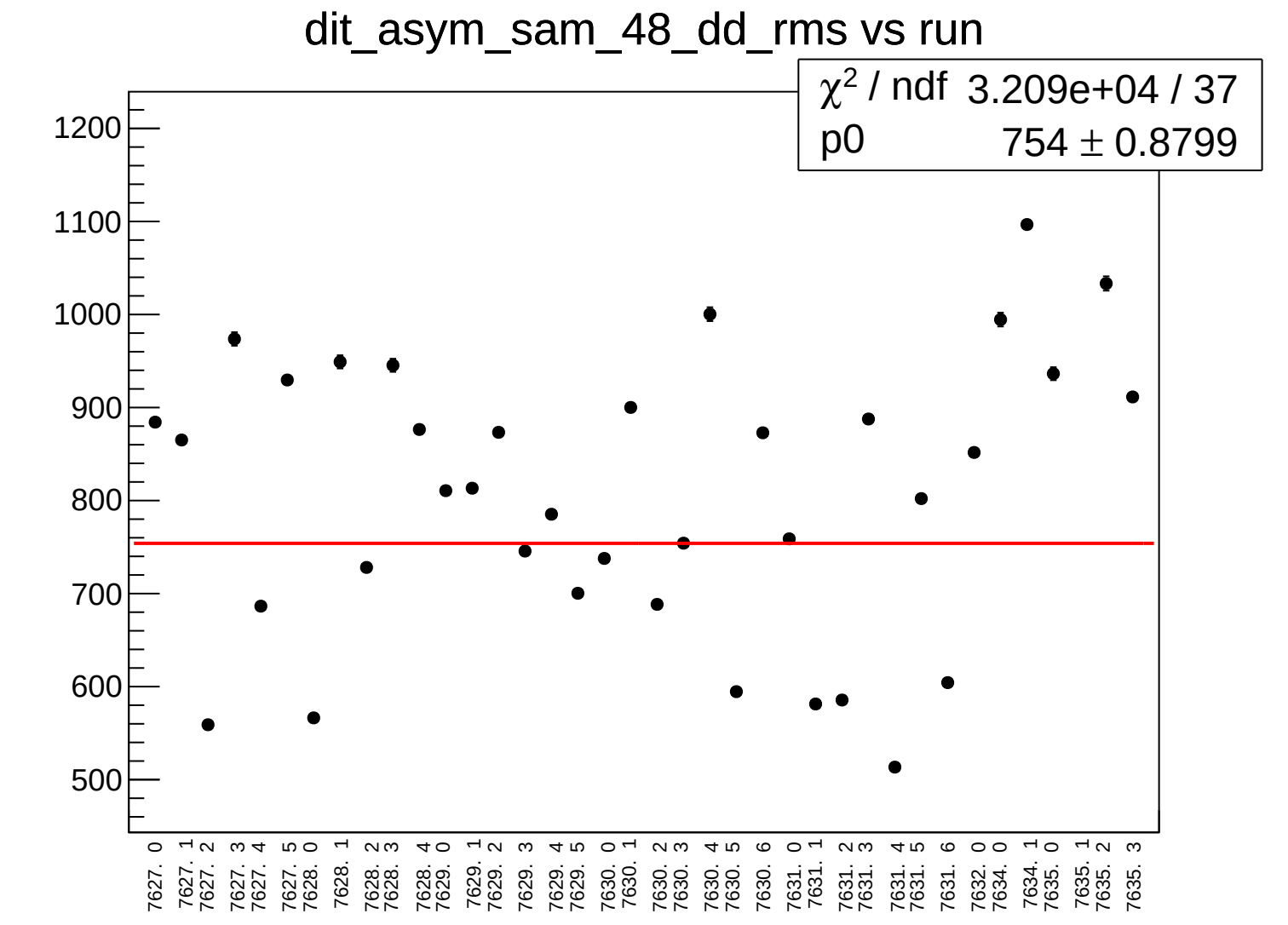

asym_sam_37_dd_mean vs run
χ² / ndf 44.65 / 37
p0 −3320 ± 2466
60000
40000
20000
0
−20000
−40000
−60000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −85.76
Std Dev 111.4
2
1
0
−1
−2

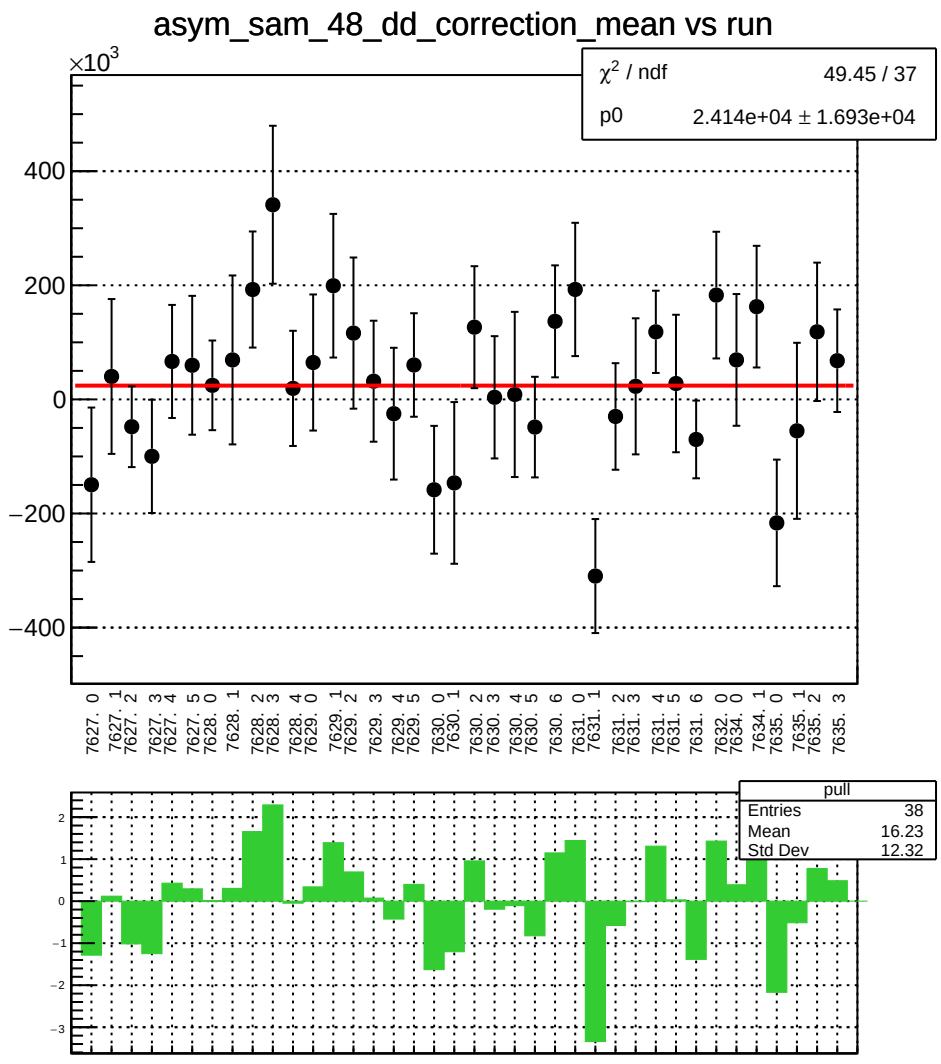

pull1D
Entries 38
Mean −0.009622
Std Dev 1.084
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

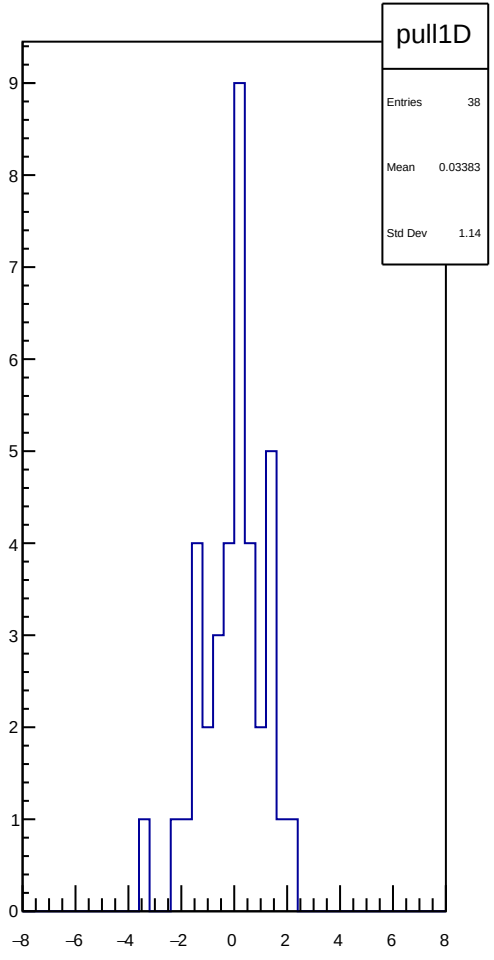

asym_sam_37_dd_rms vs run
χ² / ndf 1.32e+04 / 37
p0 1513 ± 1.743
2200
2000
1800
1600
1400
1200
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

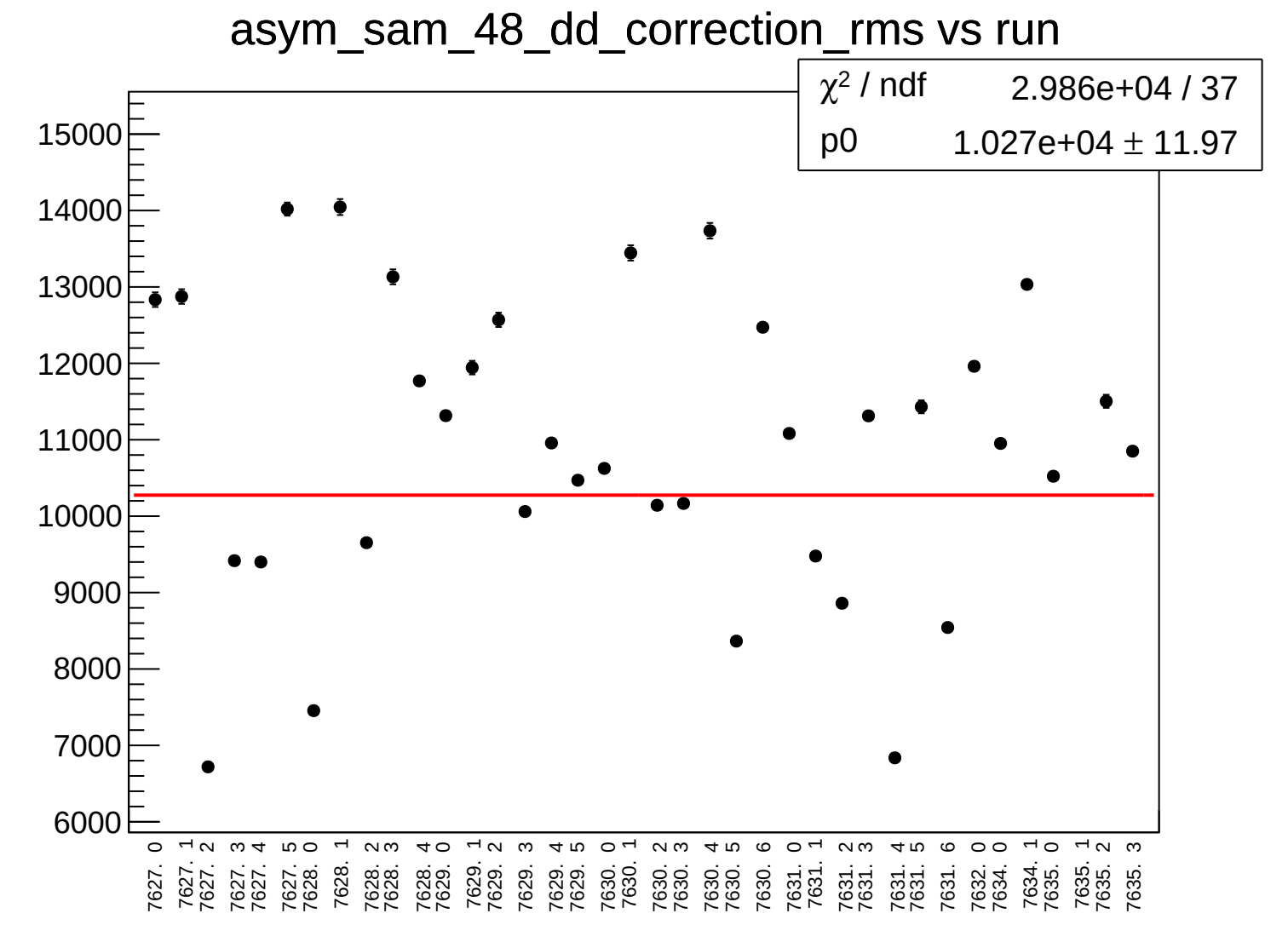

dit_asym_sam_48_dd_mean vs run
χ² / ndf 27.77 / 37
p0 235.6 ± 1244
30000
20000
10000
0
−10000
−20000
−30000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −9.617
Std Dev 27.11
1.5
1
0.5
0
−0.5
−1
−1.5
−2

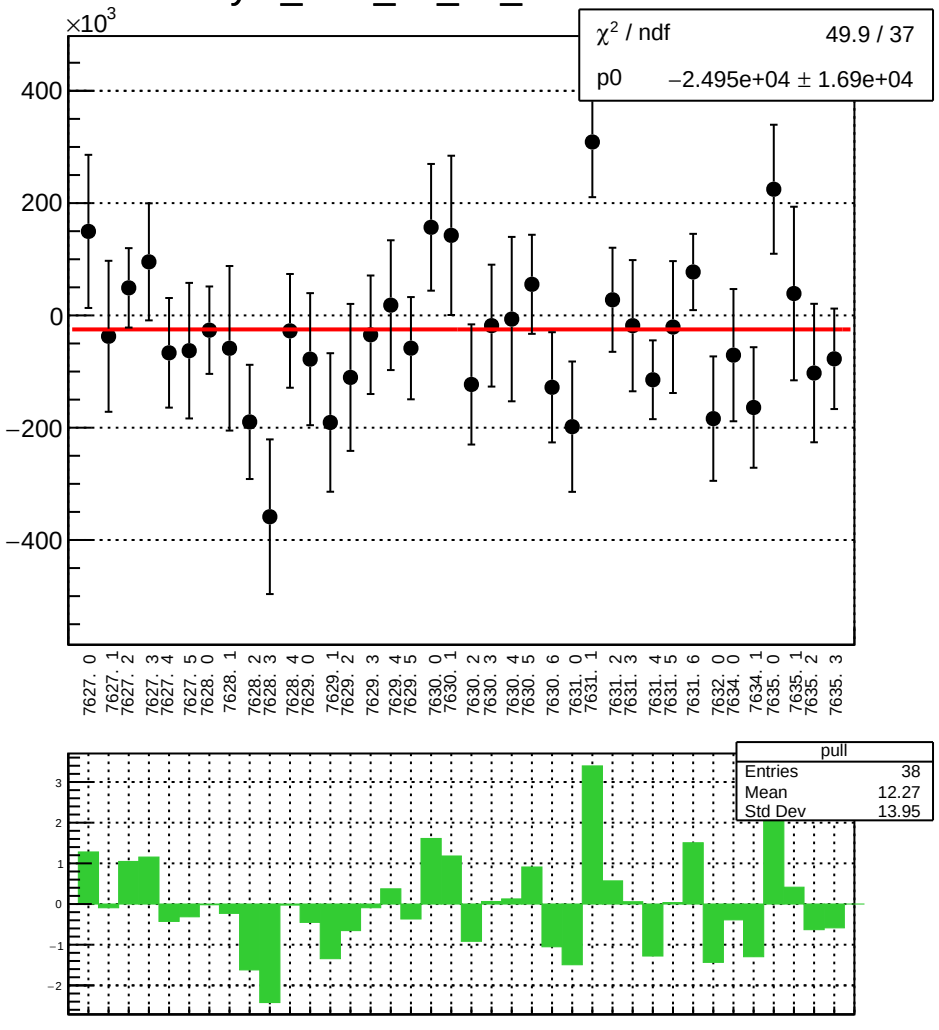

pull1D
Entries 38
Mean −0.04258
Std Dev 0.8539
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

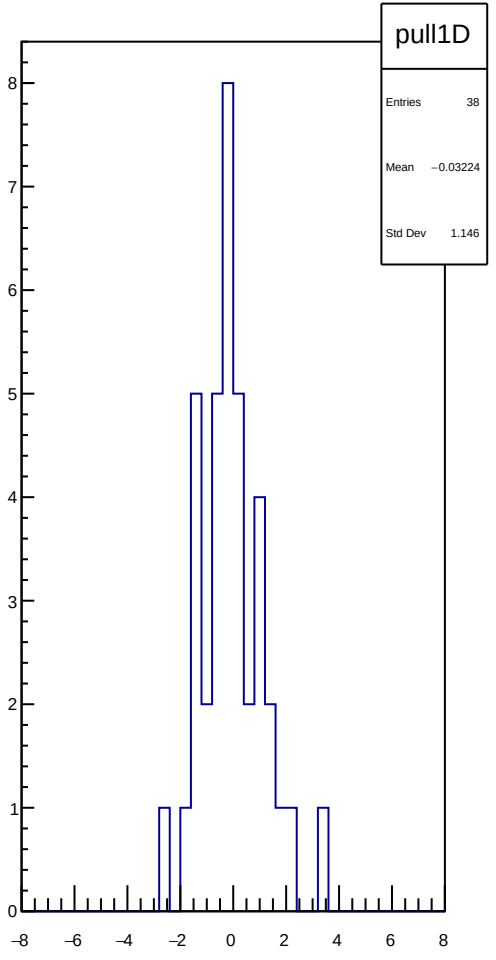

dit_asym_sam_48_dd_rms vs run
χ² / ndf 3.209e+04 / 37
p0 754 ± 0.8799
1200
1100
1000
900
800
700
600
500
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

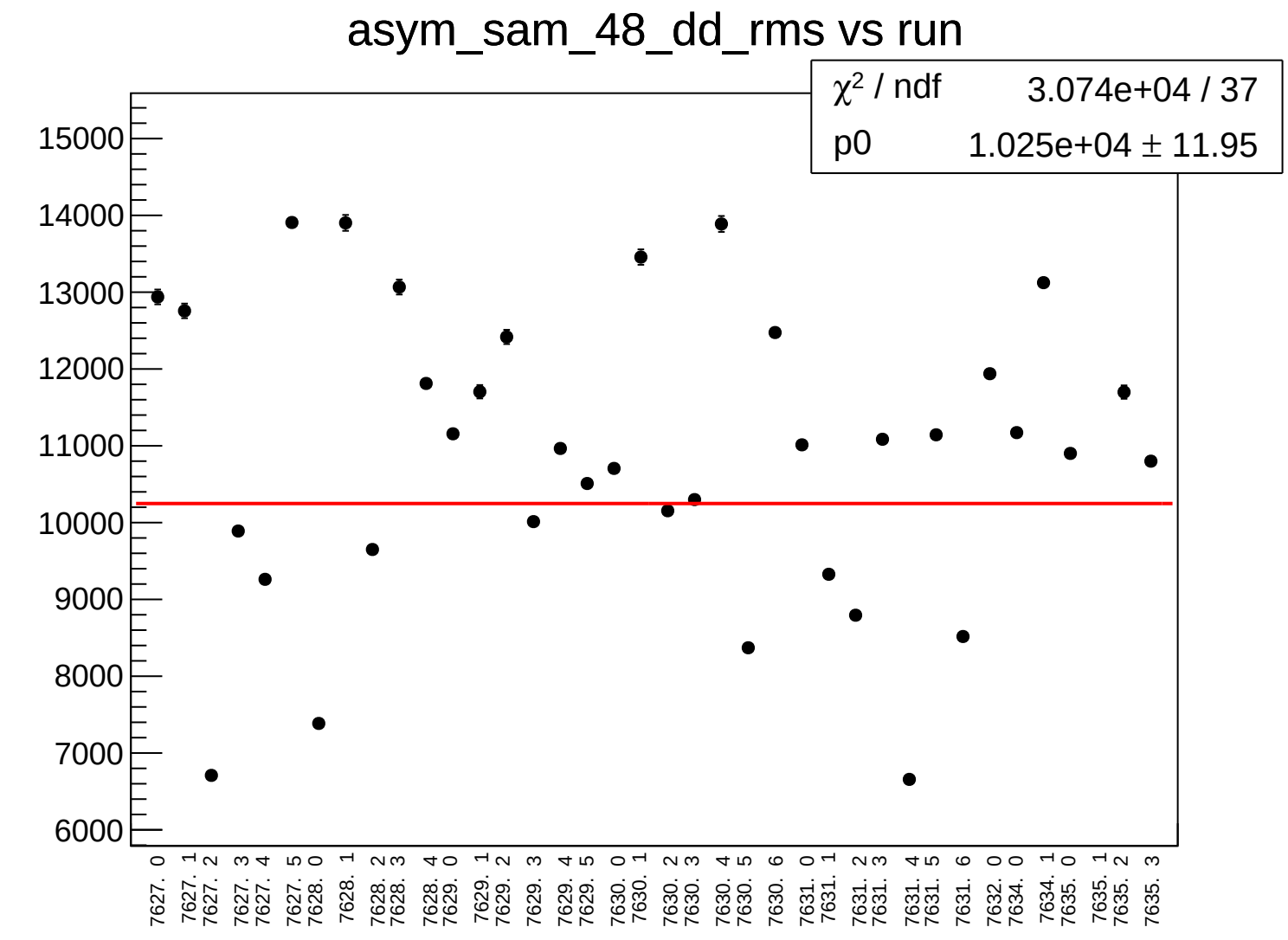

asym_sam_48_dd_correction_mean vs run
×10^3
χ² / ndf 49.45 / 37
p0 2.414e+04 ± 1.693e+04
400
200
0
−200
−400
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 16.23
Std Dev 12.32
2
1
0
−1
−2
−3

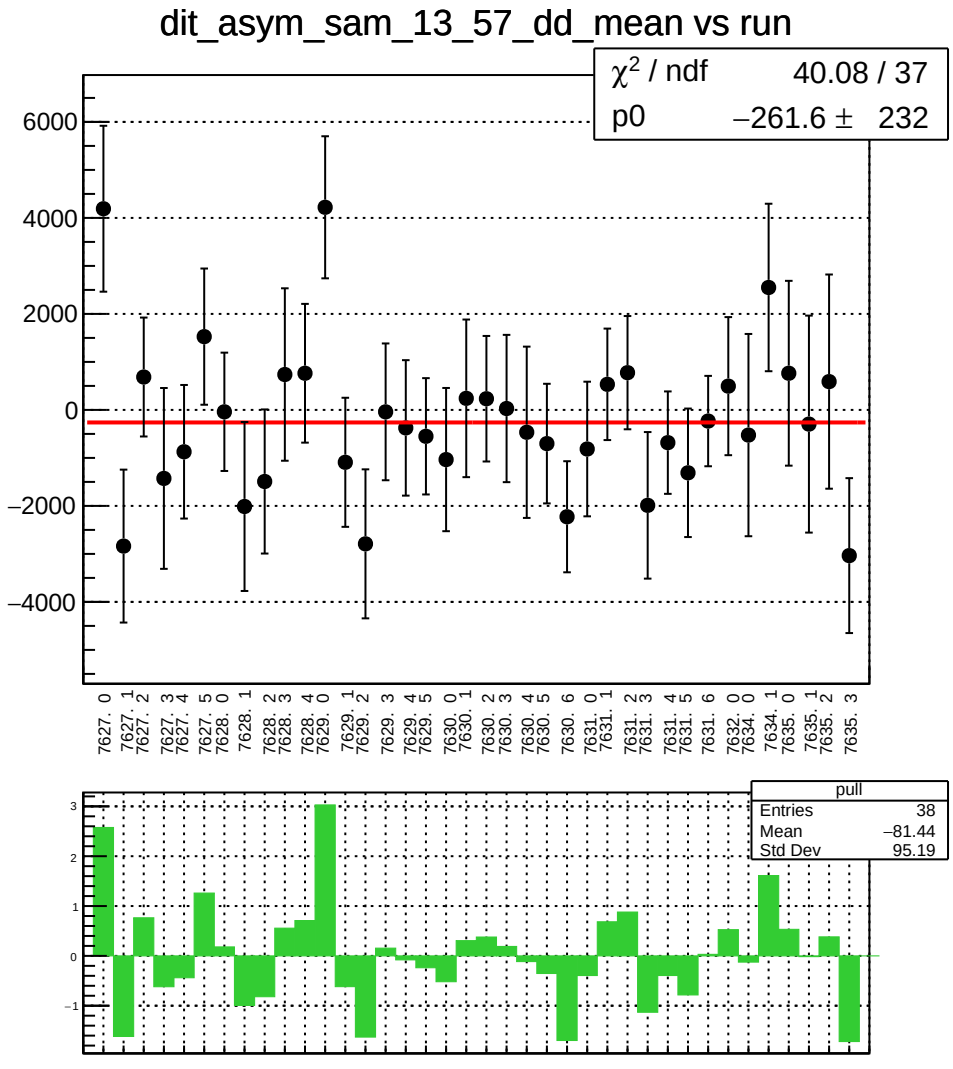

pull1D
Entries 38
Mean 0.03383
Std Dev 1.14
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

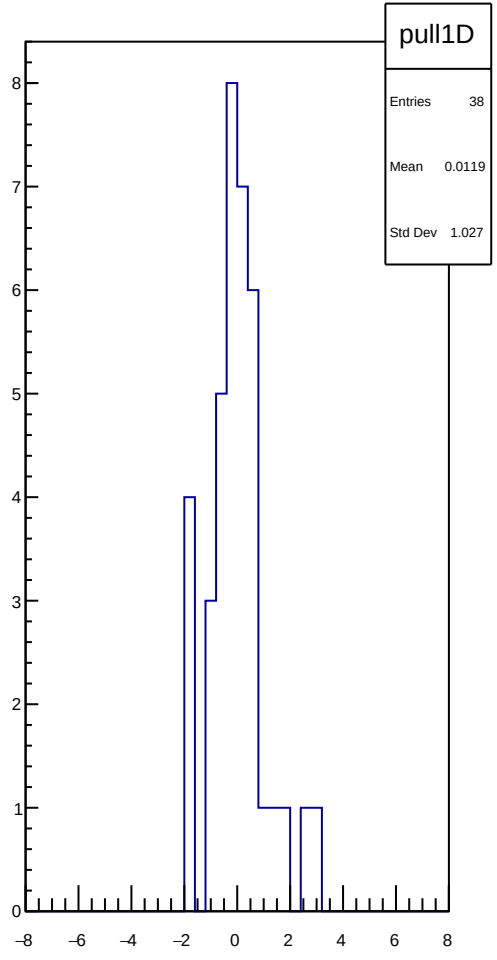

asym_sam_48_dd_correction_rms vs run
χ² / ndf 2.986e+04 / 37
p0 1.027e+04 ± 11.97
15000
14000
13000
12000
11000
10000
9000
8000
7000
6000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

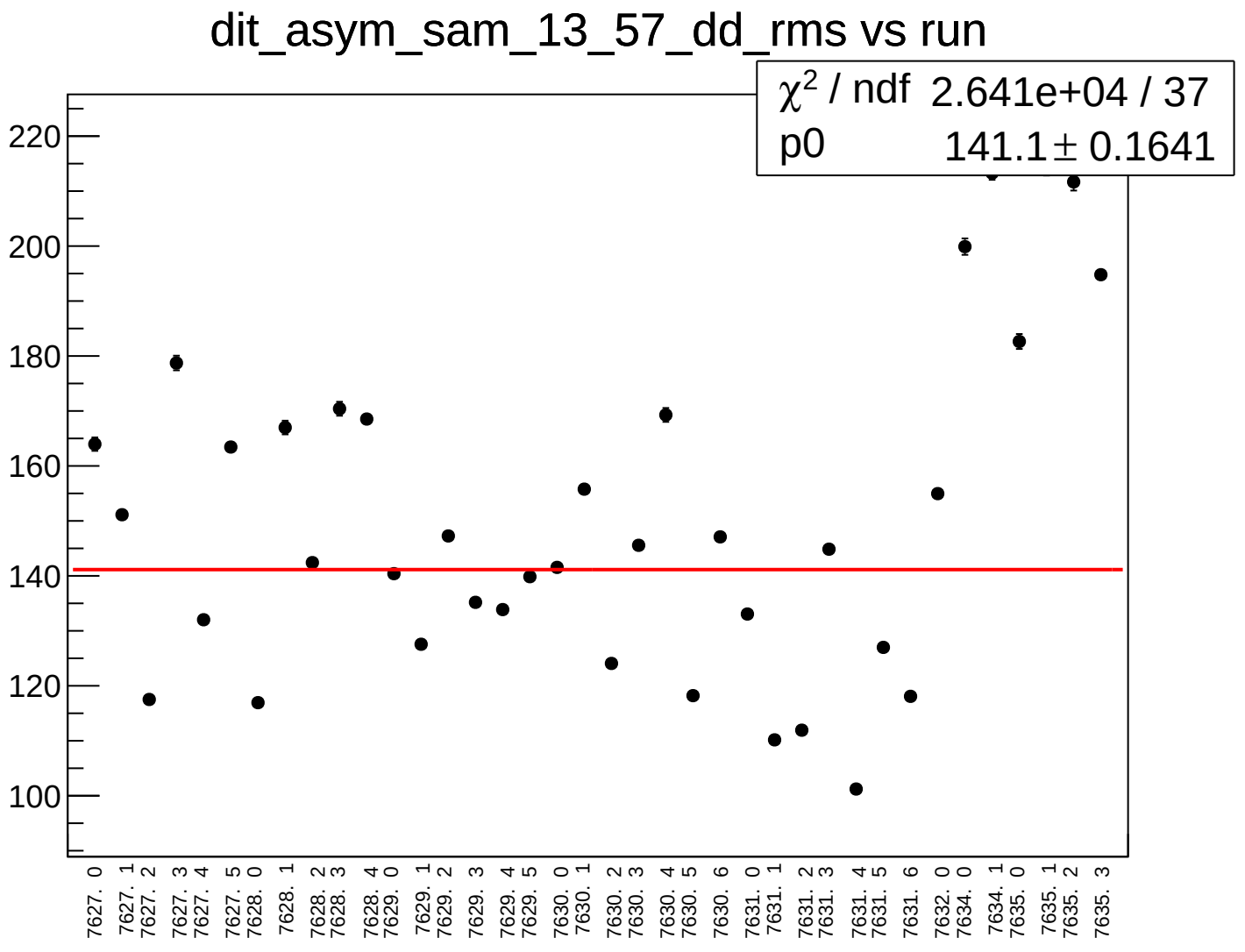

asym_sam_48_dd_mean vs run
×10^3
χ² / ndf 49.9 / 37
p0 −2.495e+04 ± 1.69e+04
400
200
0
−200
−400
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 12.27
Std Dev 13.95
3
2
1
0
−1
−2

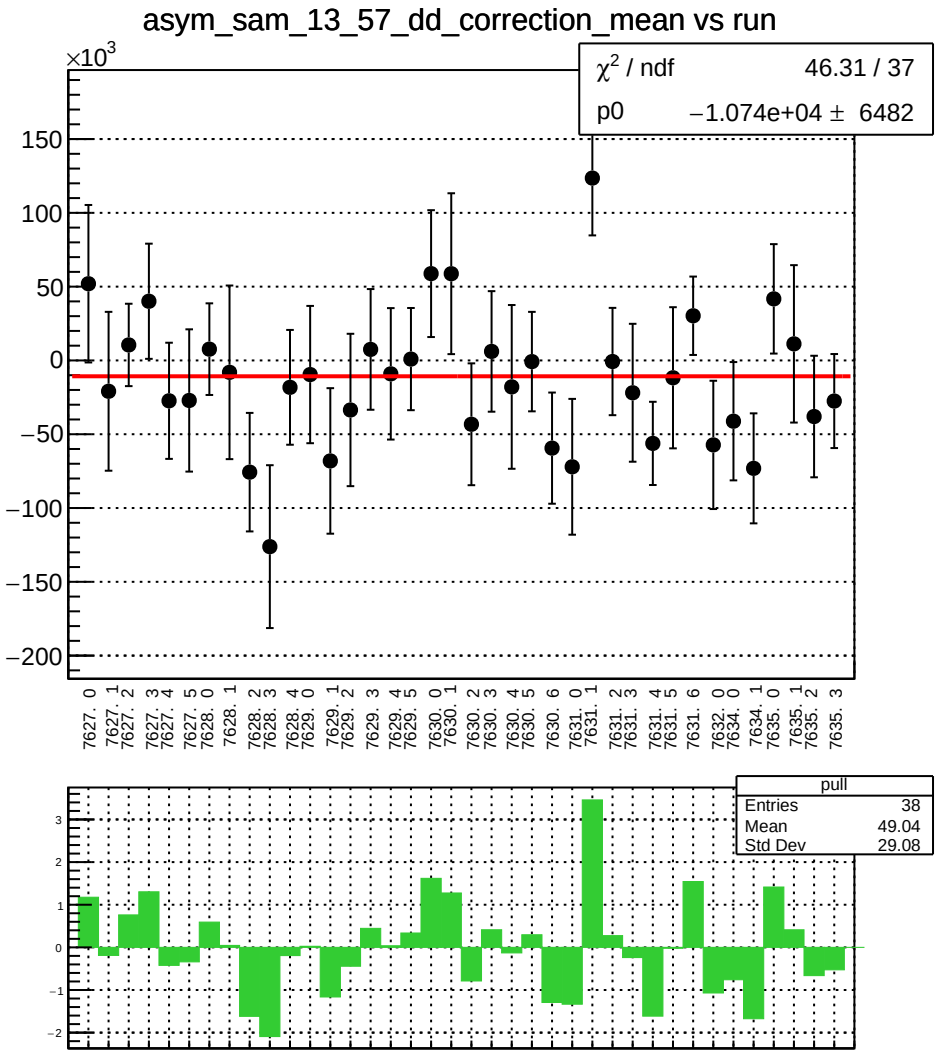

pull1D
Entries 38
Mean −0.03224
Std Dev 1.146
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

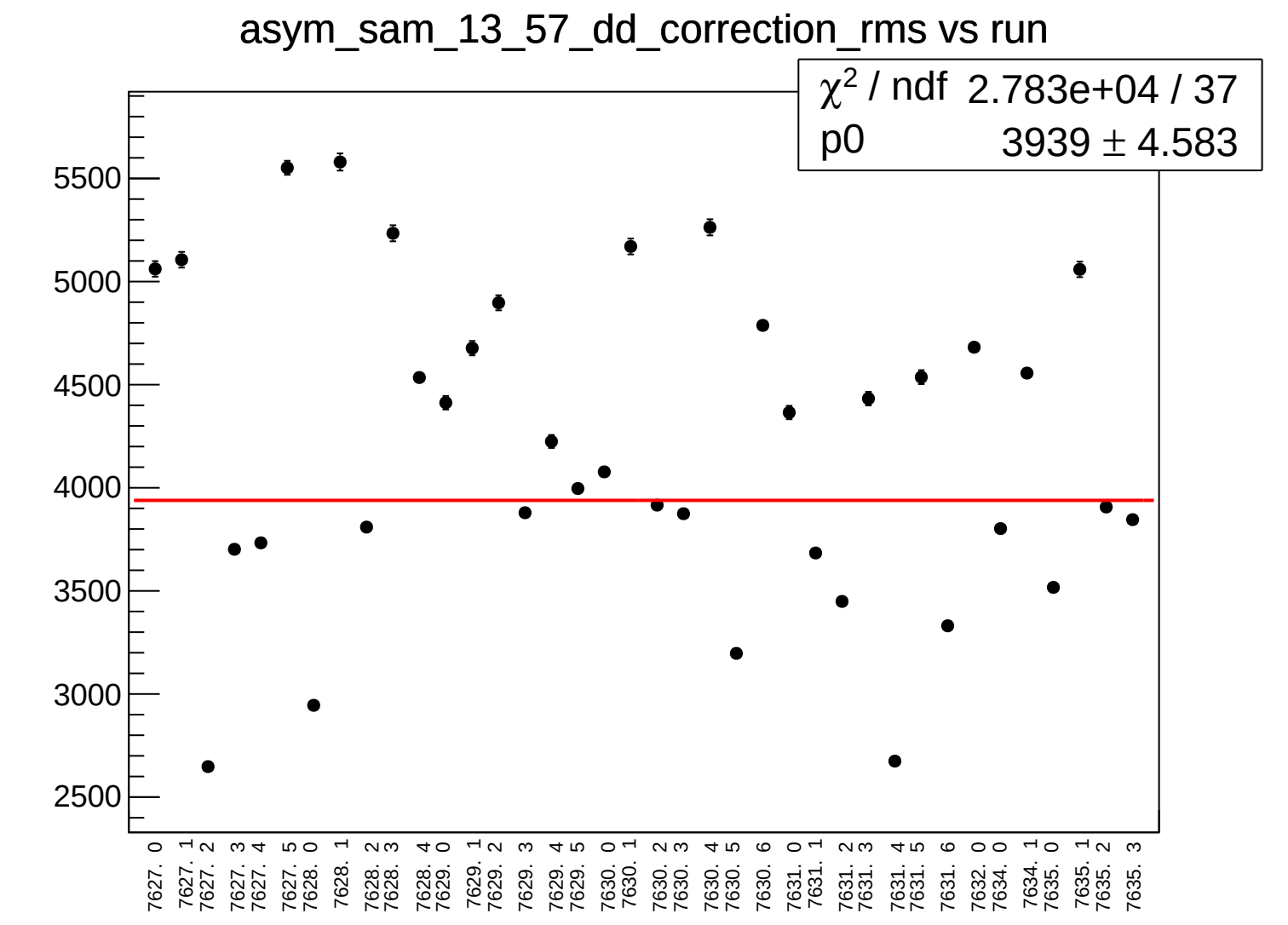

asym_sam_48_dd_rms vs run
χ² / ndf 3.074e+04 / 37
p0 1.025e+04 ± 11.95
15000
14000
13000
12000
11000
10000
9000
8000
7000
6000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

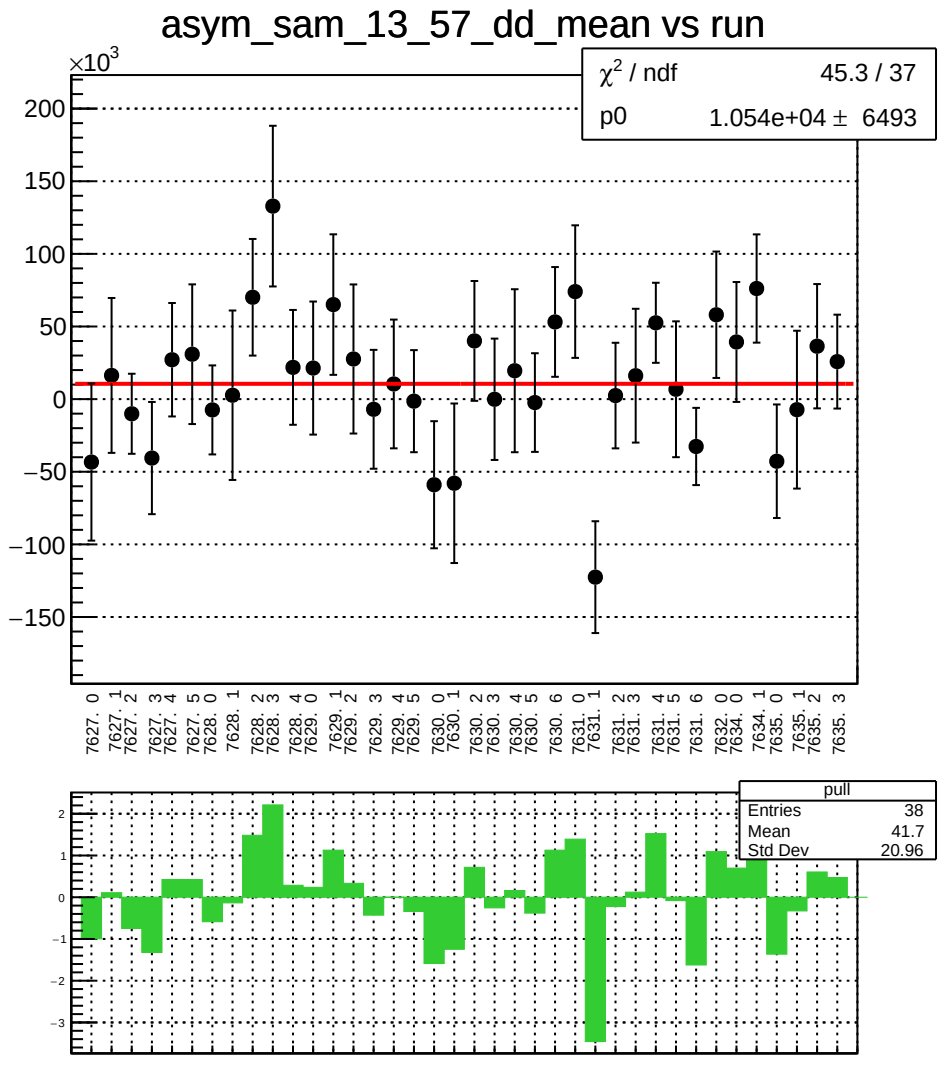

dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 40.08 / 37
p0 −261.6 ± 232
6000
4000
2000
0
−2000
−4000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 4
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −81.44
Std Dev 95.19
3
2
1
0
−1

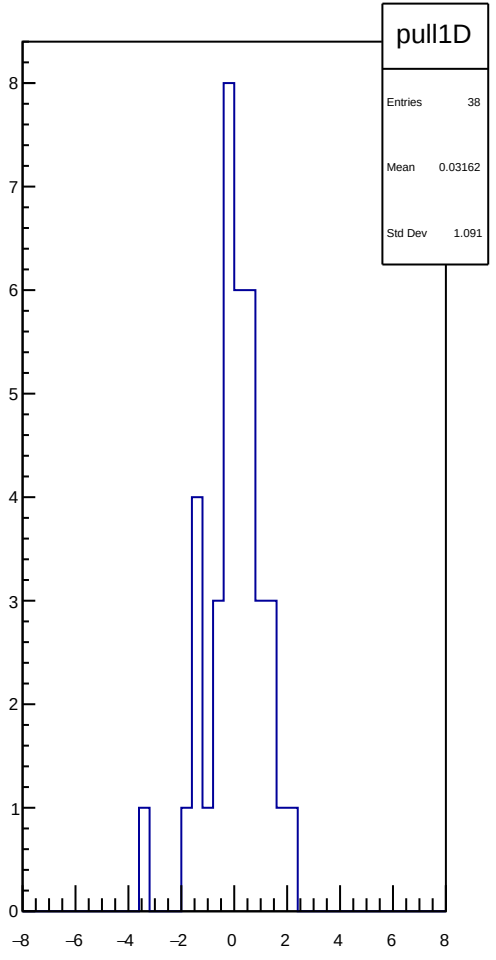

pull1D
Entries 38
Mean 0.0119
Std Dev 1.027
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

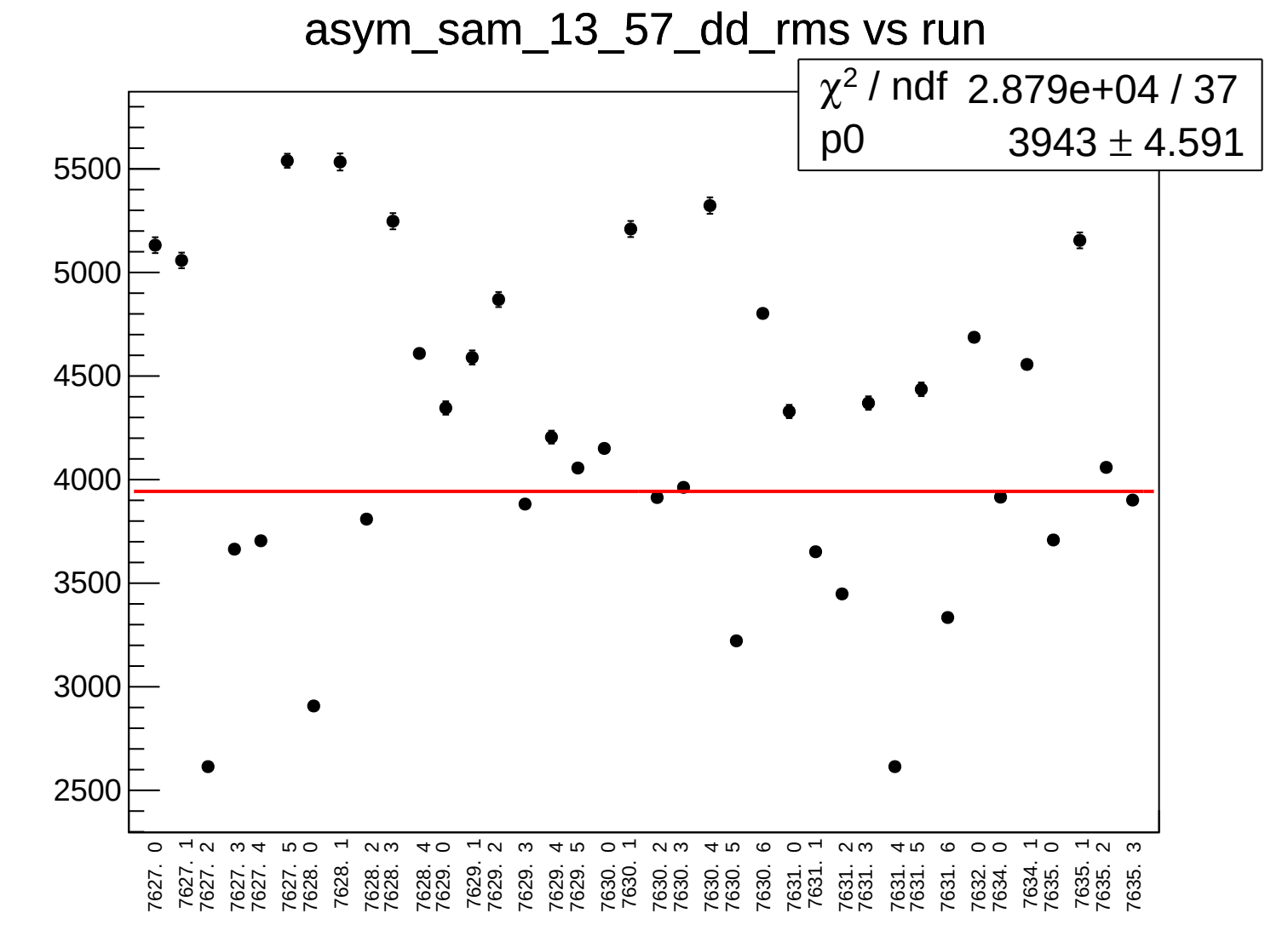

dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 2.641e+04 / 37
p0 141.1 ± 0.1641
220
200
180
160
140
120
100
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

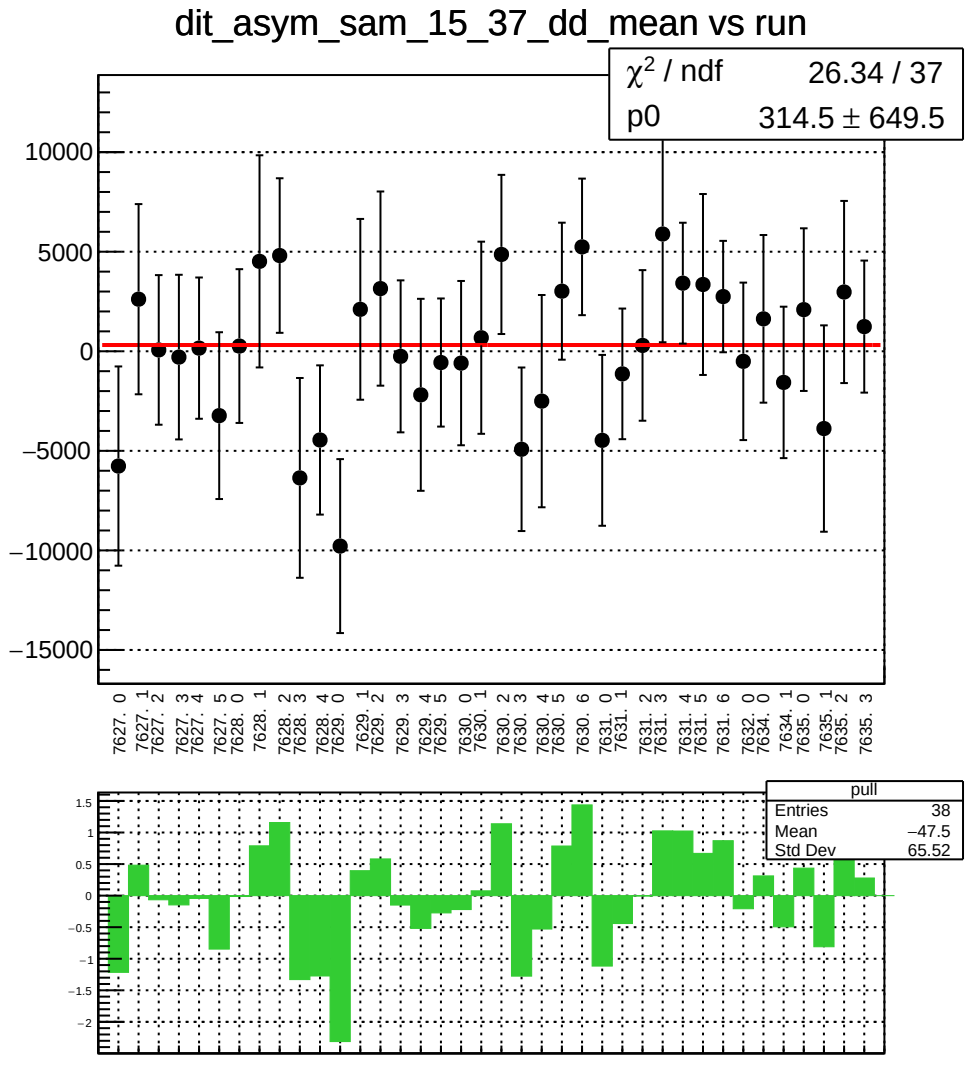

asym_sam_13_57_dd_correction_mean vs run
×10^3
χ² / ndf 46.31 / 37
p0 −1.074e+04 ± 6482
150
100
50
0
−50
−100
−150
−200
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 49.04
Std Dev 29.08
3
2
1
0
−1
−2
pull1D
Entries 38
Mean −0.02991
Std Dev 1.104
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

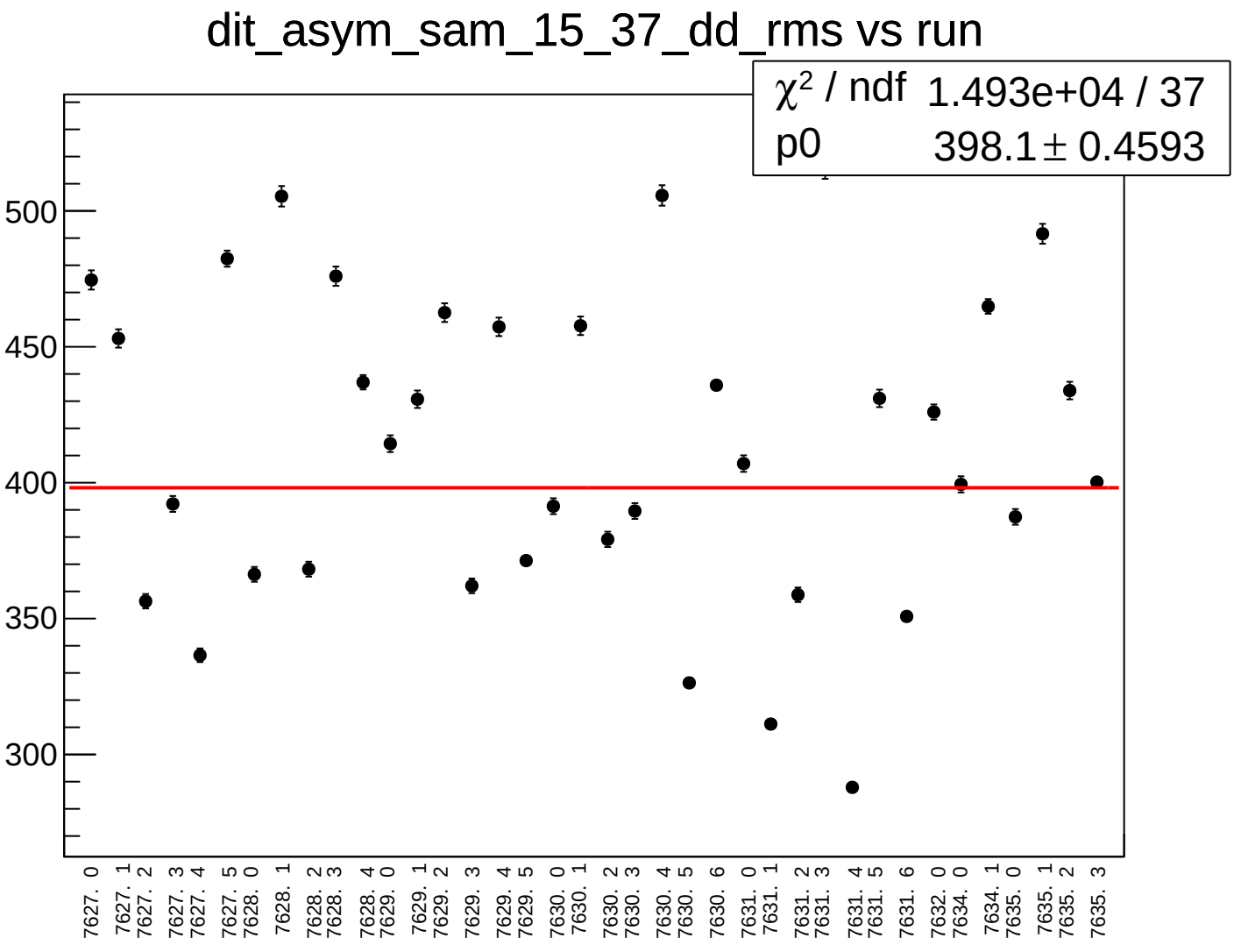

asym_sam_13_57_dd_correction_rms vs run
χ² / ndf 2.783e+04 / 37
p0 3939 ± 4.583
5500
5000
4500
4000
3500
3000
2500
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

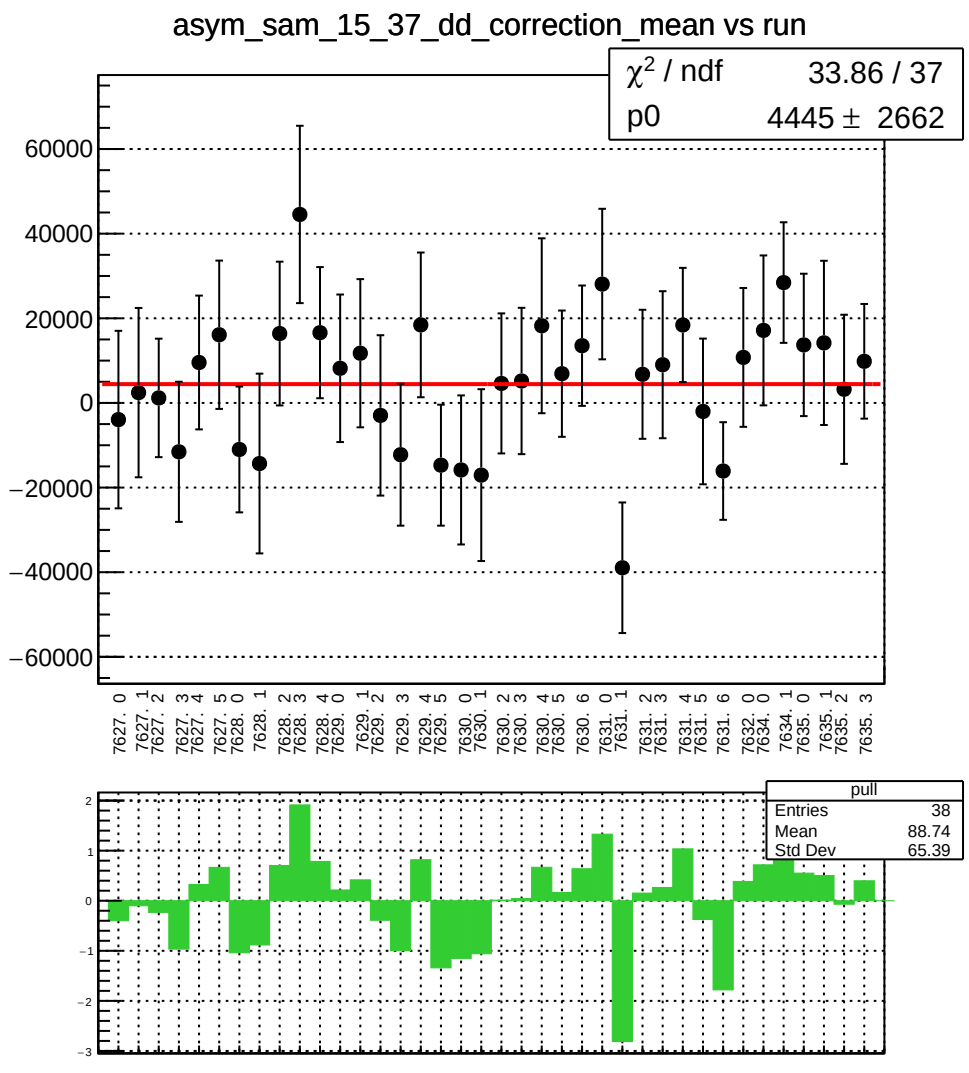

asym_sam_13_57_dd_mean vs run
×10^3
χ² / ndf 45.3 / 37
p0 1.054e+04 ± 6493
200
150
100
50
0
−50
−100
−150
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 41.7
Std Dev 20.96
2
1
0
−1
−2
−3

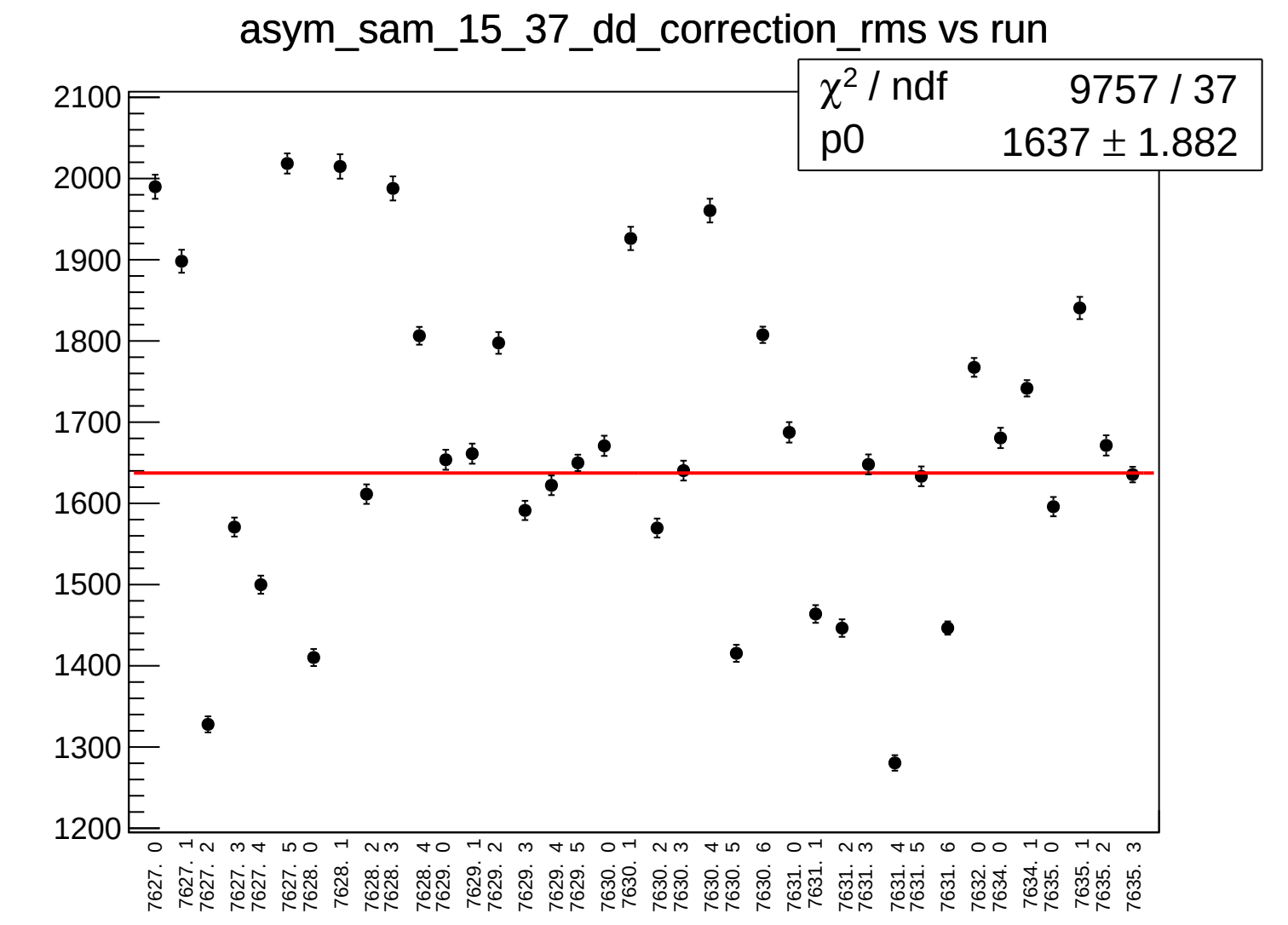

pull1D
Entries 38
Mean 0.03162
Std Dev 1.091
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

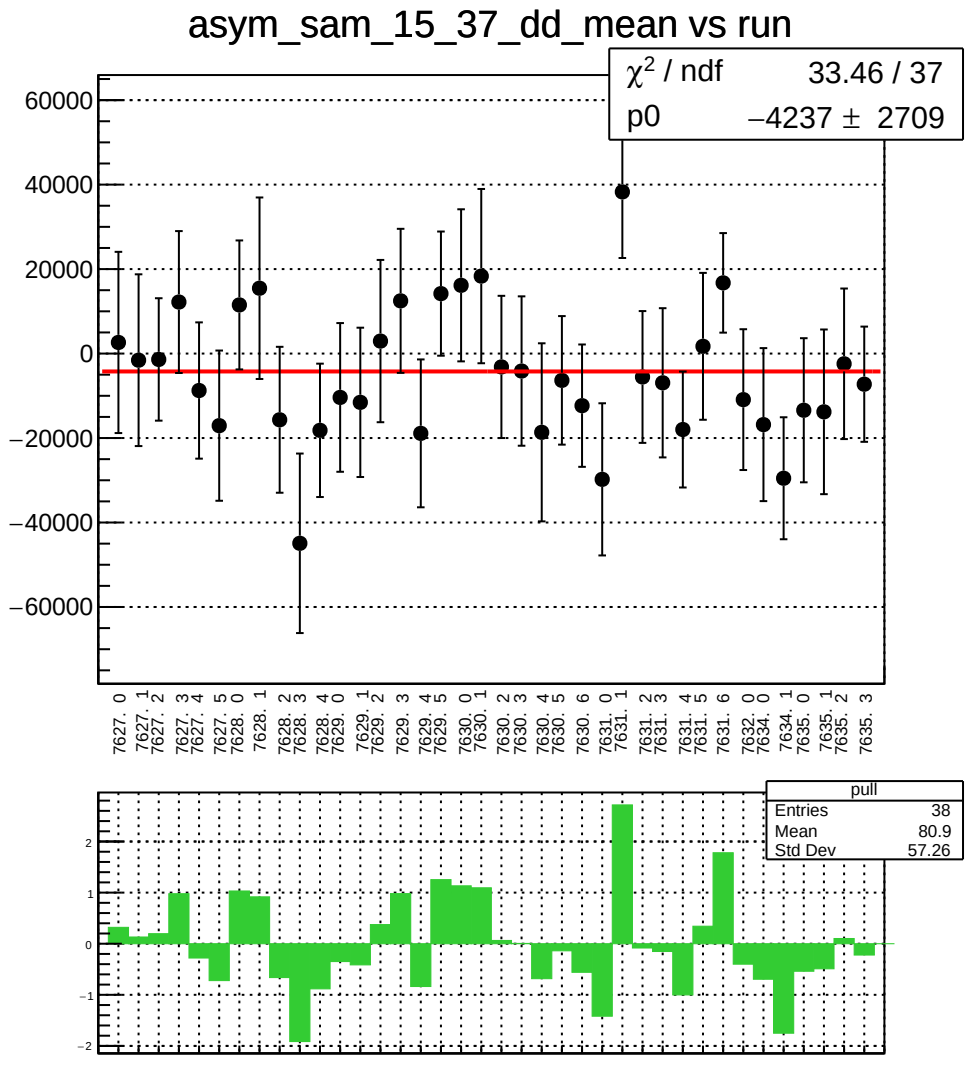

asym_sam_13_57_dd_rms vs run
χ^2 / ndf 2.879e+04 / 37
p0 3943 ± 4.591
5500
5000
4500
4000
3500
3000
2500
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

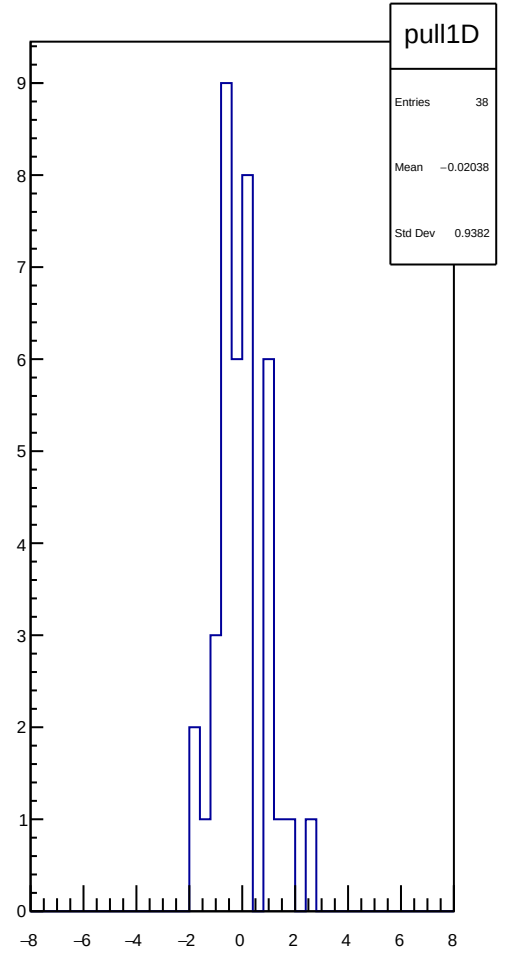

dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 26.34 / 37
p0 314.5 ± 649.5
10000
5000
0
−5000
−10000
−15000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −47.5
Std Dev 65.52
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 38
Mean −0.03288
Std Dev 0.8318
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

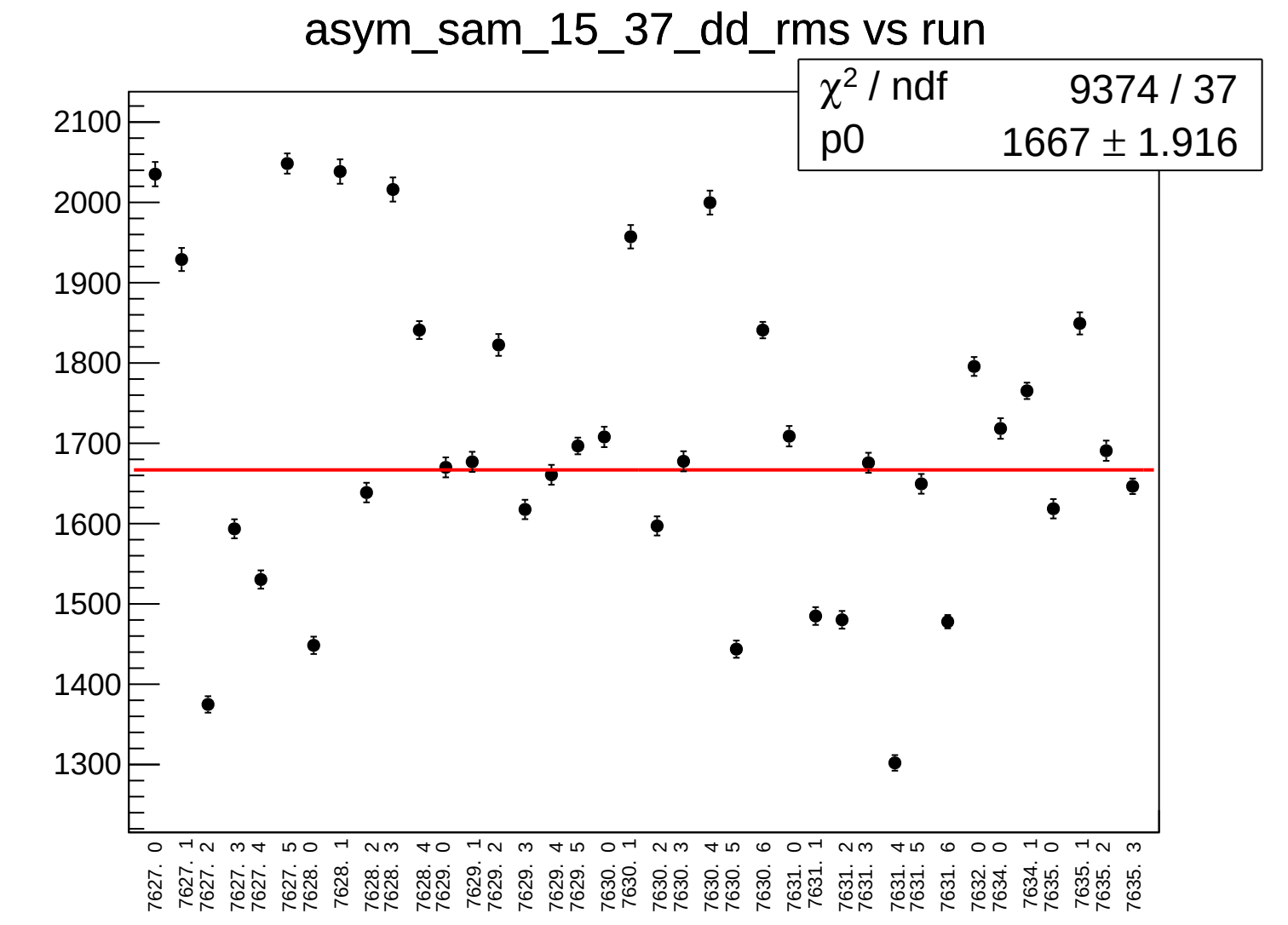

dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 1.493e+04 / 37
p0 398.1 ± 0.4593
500
450
400
350
300
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

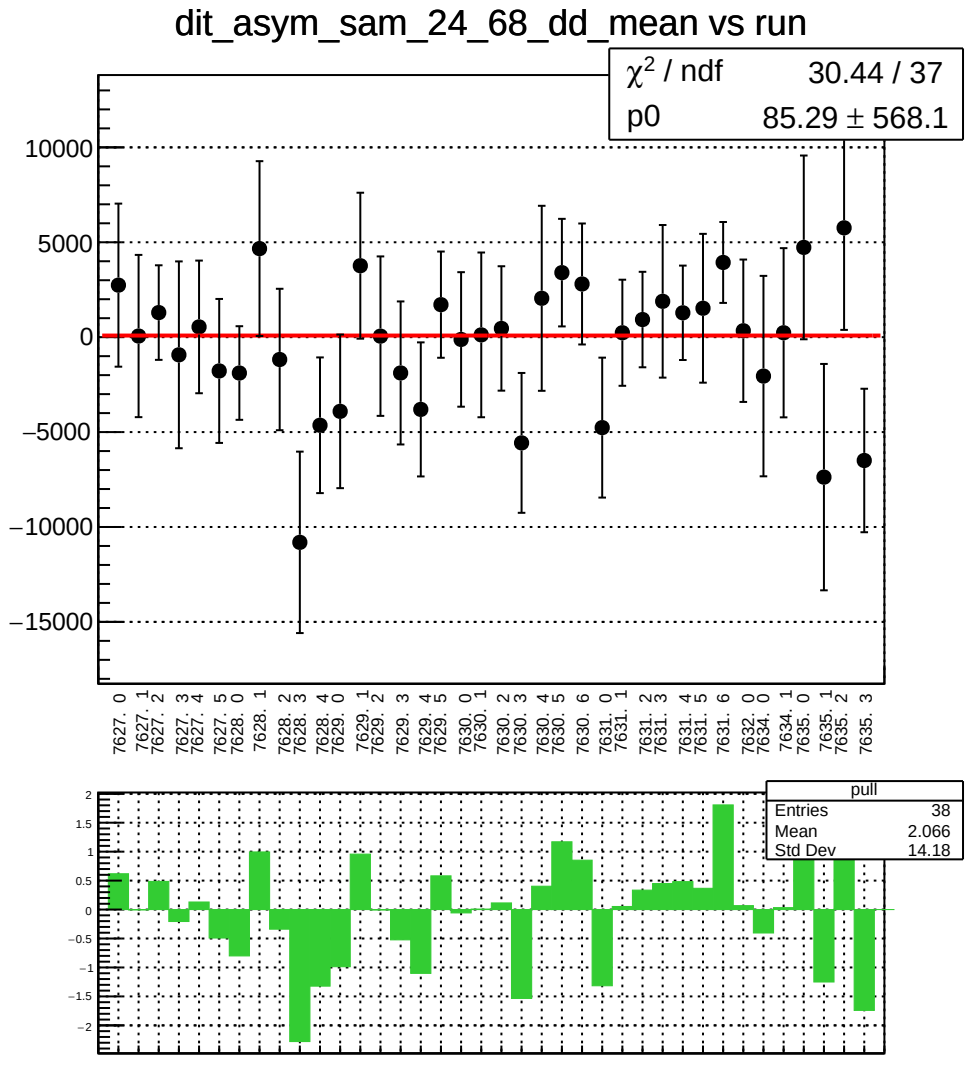

asym_sam_15_37_dd_correction_mean vs run
χ² / ndf 33.86 / 37
p0 4445 ± 2662
60000
40000
20000
0
−20000
−40000
−60000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 88.74
Std Dev 65.39
2
1
0
−1
−2
−3
pull1D
Entries 38
Mean 0.02081
Std Dev 0.9437
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

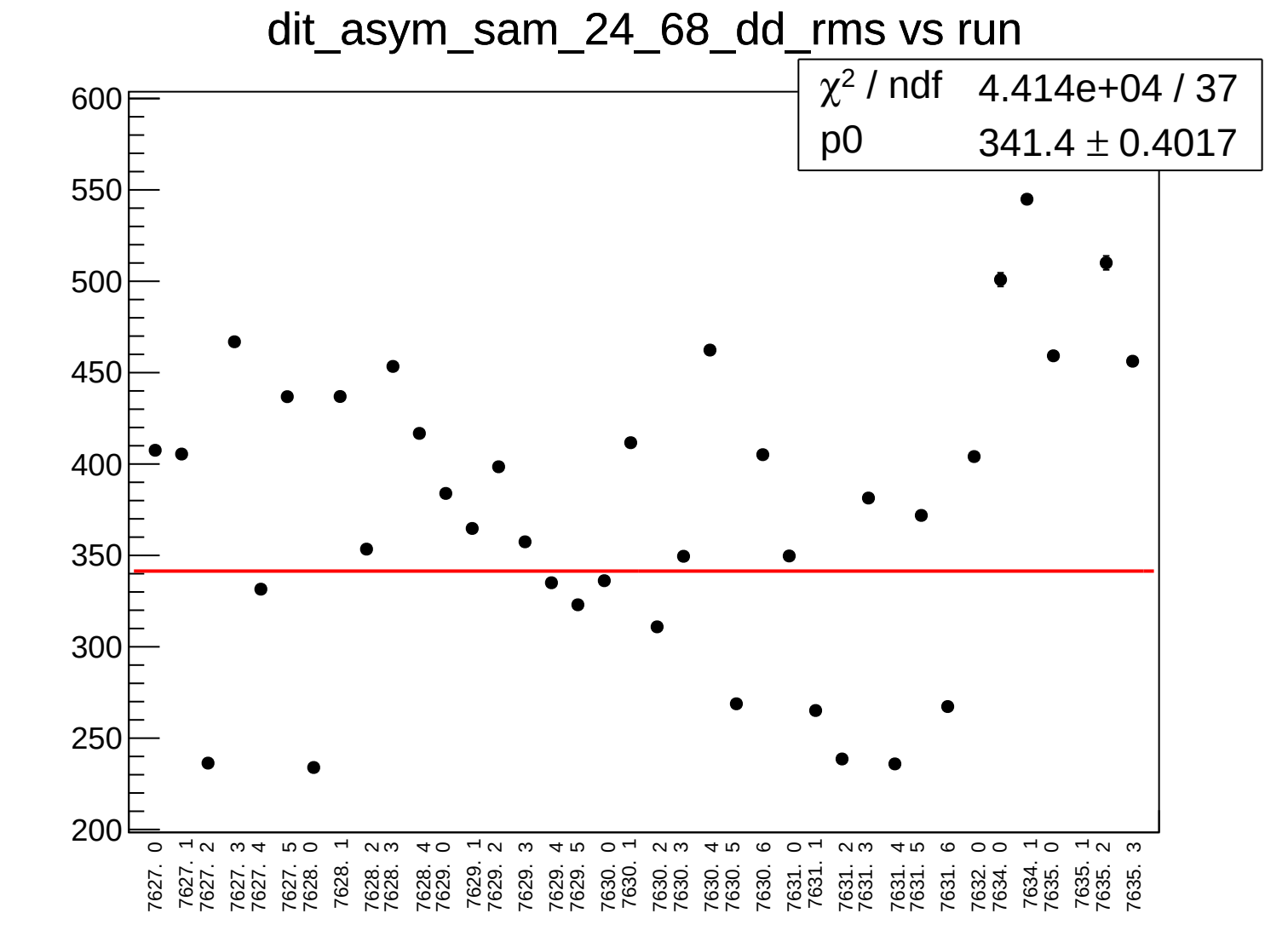

asym_sam_15_37_dd_correction_rms vs run
χ² / ndf 9757 / 37
p0 1637 ± 1.882
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

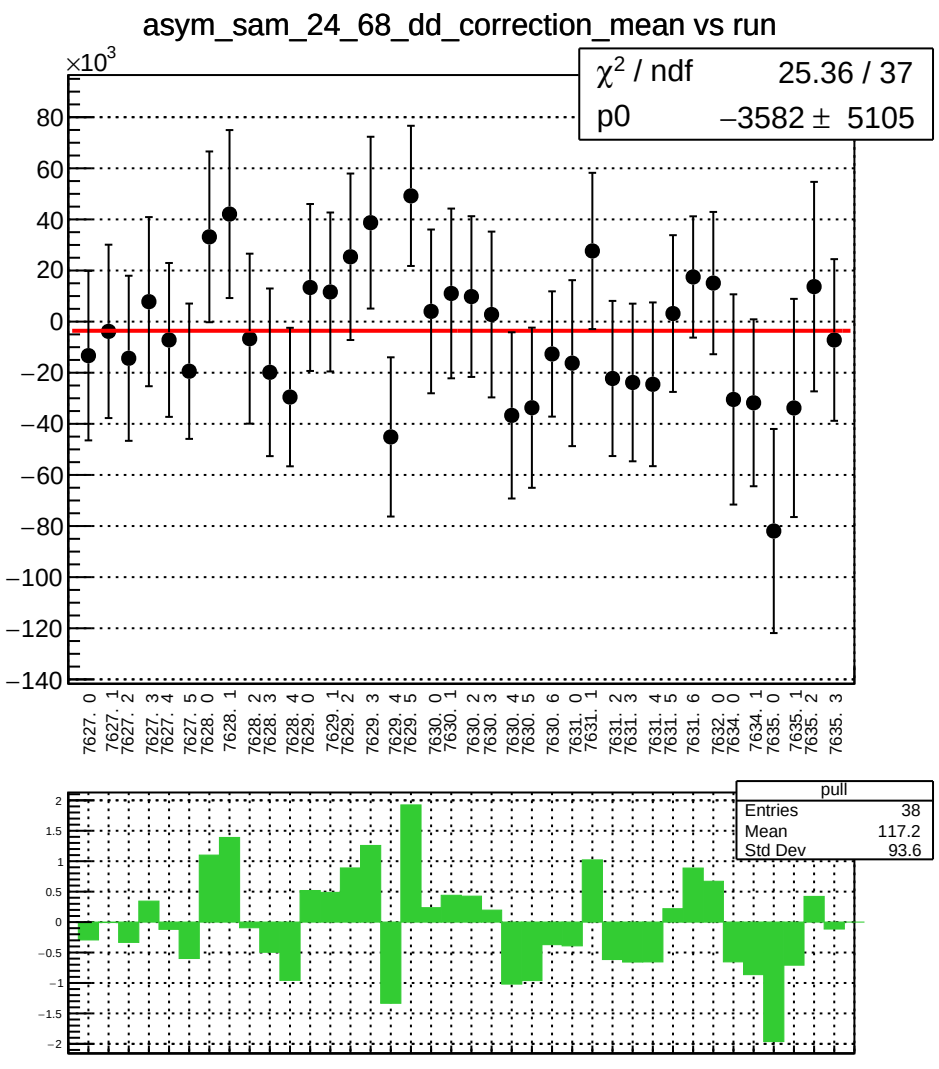

asym_sam_15_37_dd_mean vs run
χ² / ndf 33.46 / 37
p0 −4237 ± 2709
60000
40000
20000
0
−20000
−40000
−60000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 80.9
Std Dev 57.26
2
1
0
−1
−2

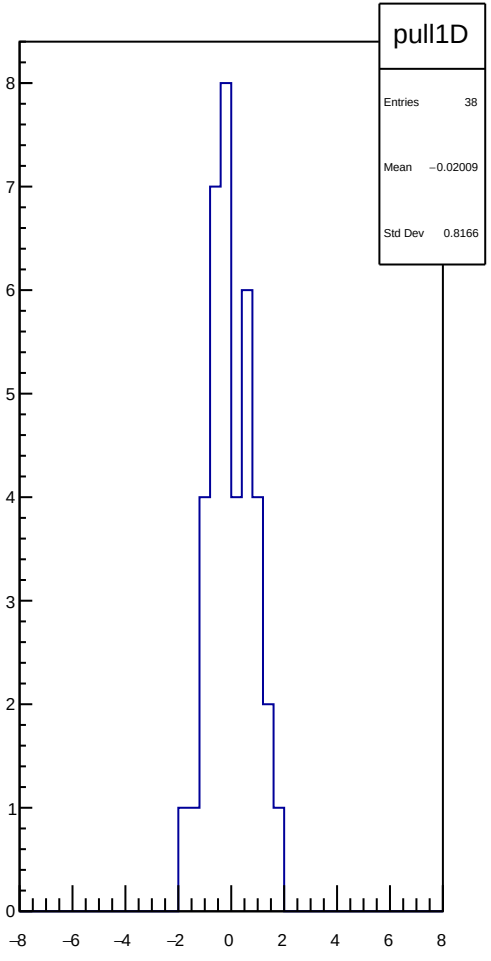

pull1D
Entries 38
Mean −0.02038
Std Dev 0.9382
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

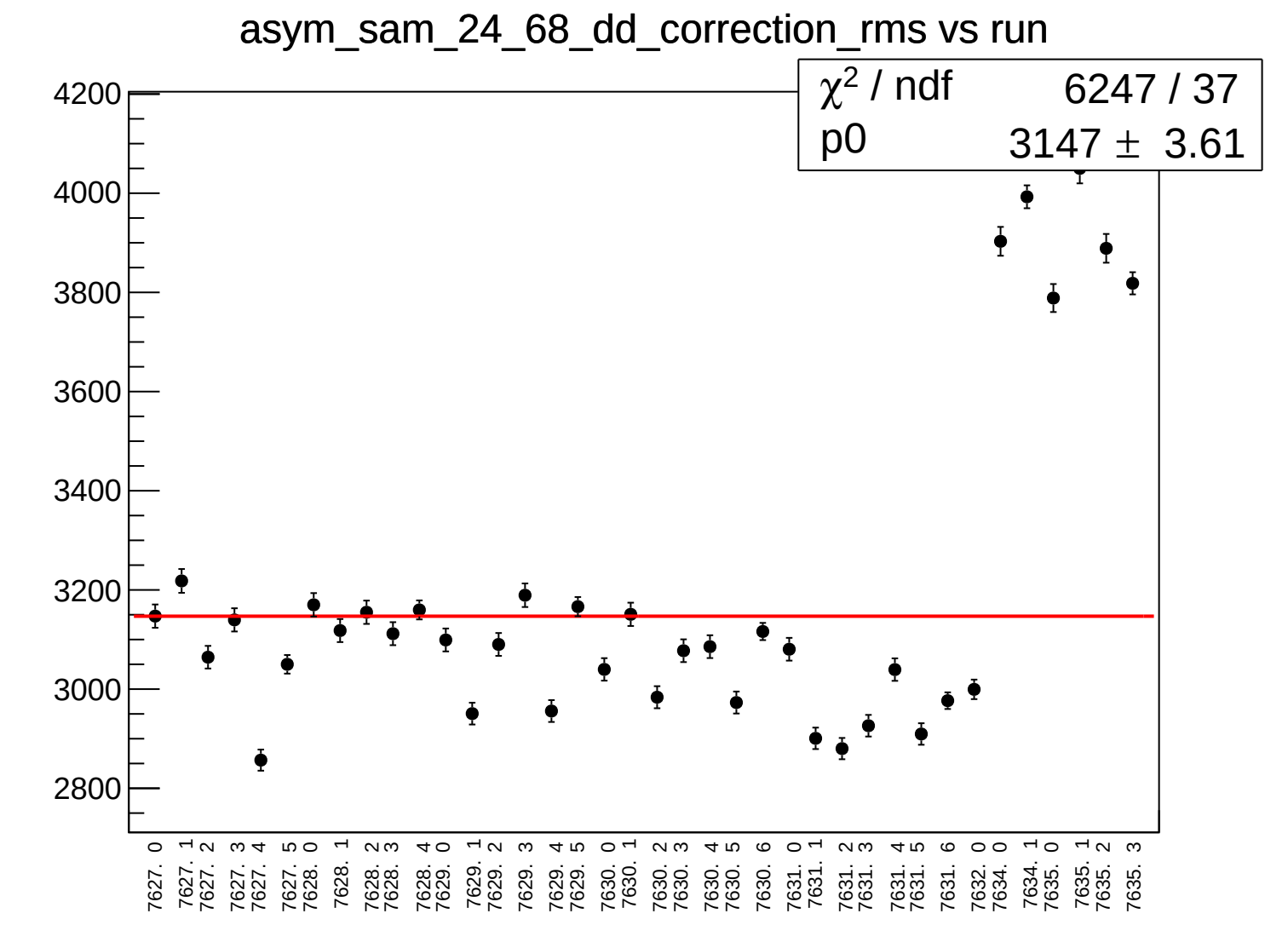

asym_sam_15_37_dd_rms vs run
χ² / ndf 9374 / 37
p0 1667 ± 1.916
2100
2000
1900
1800
1700
1600
1500
1400
1300
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

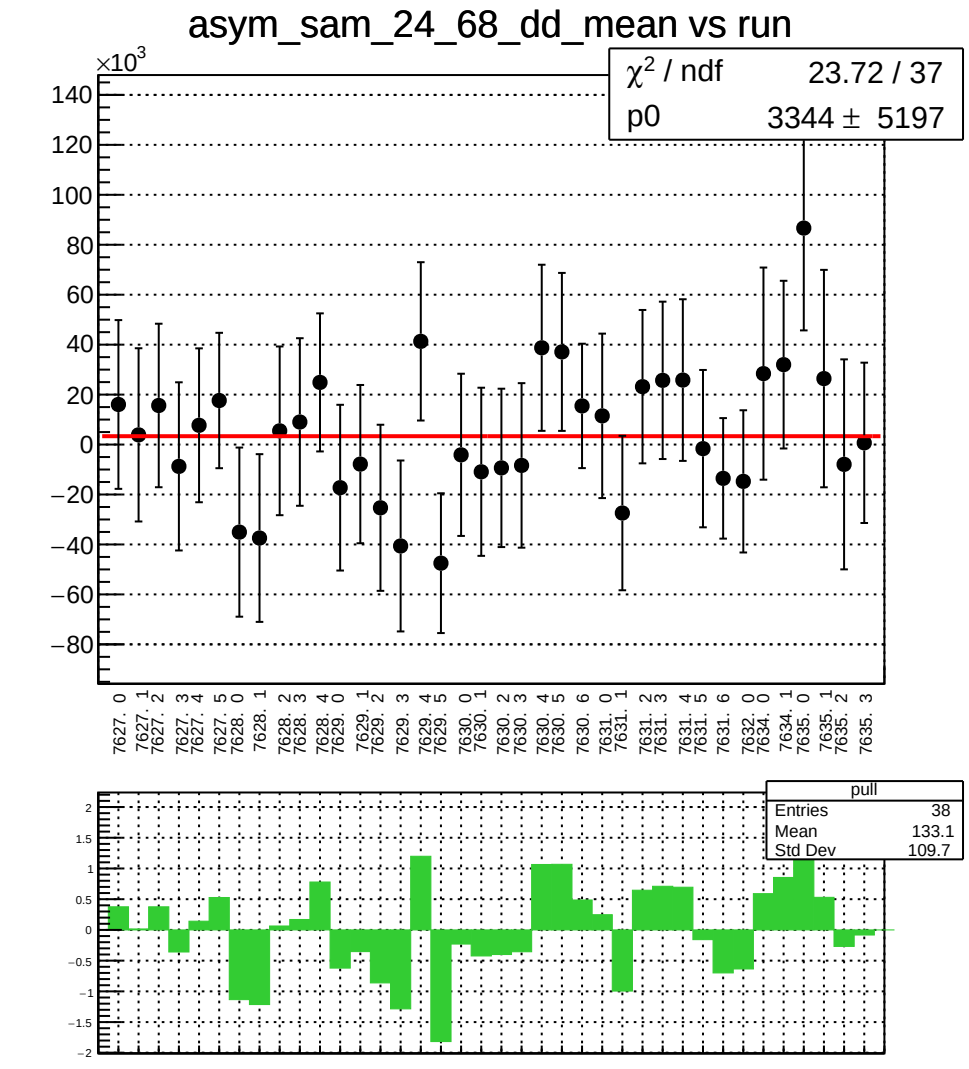

dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 30.44 / 37
p0 85.29 ± 568.1
10000
5000
0
−5000
−10000
−15000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 2.066
Std Dev 14.18
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 38
Mean −0.06427
Std Dev 0.8926
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

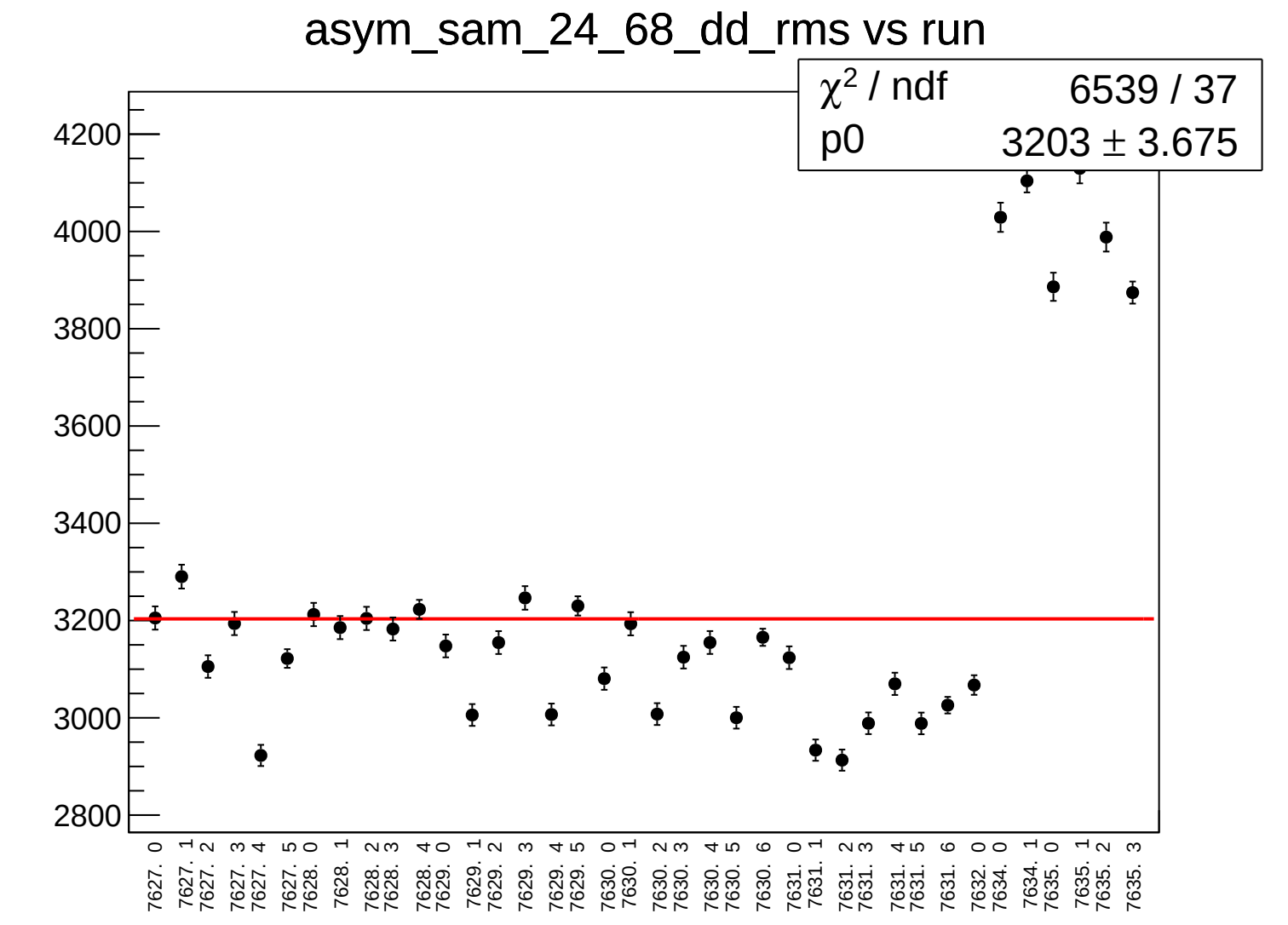

dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 4.414e+04 / 37
p0 341.4 ± 0.4017
600
550
500
450
400
350
300
250
200
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

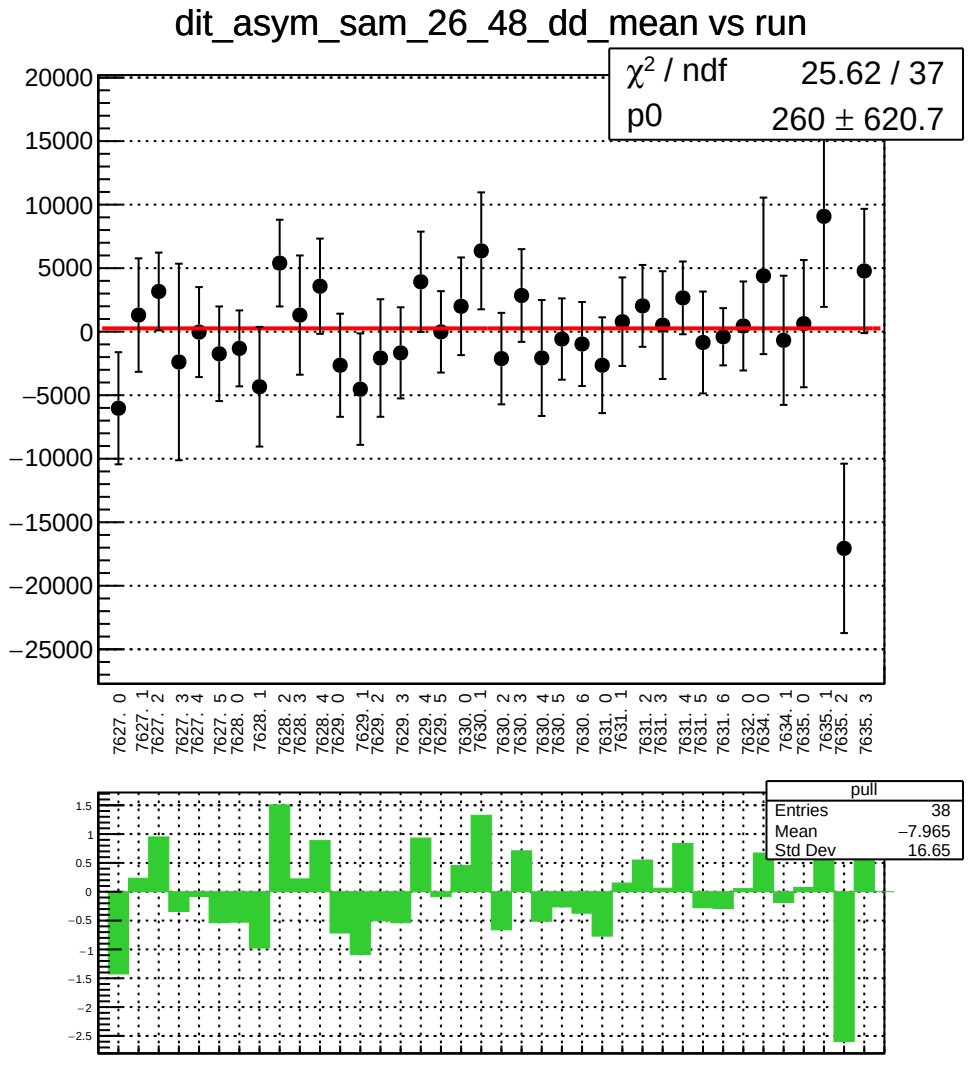

asym_sam_24_68_dd_correction_mean vs run
×10^3
χ² / ndf 25.36 / 37
p0 −3582 ± 5105
pull
Entries 38
Mean 117.2
Std Dev 93.6

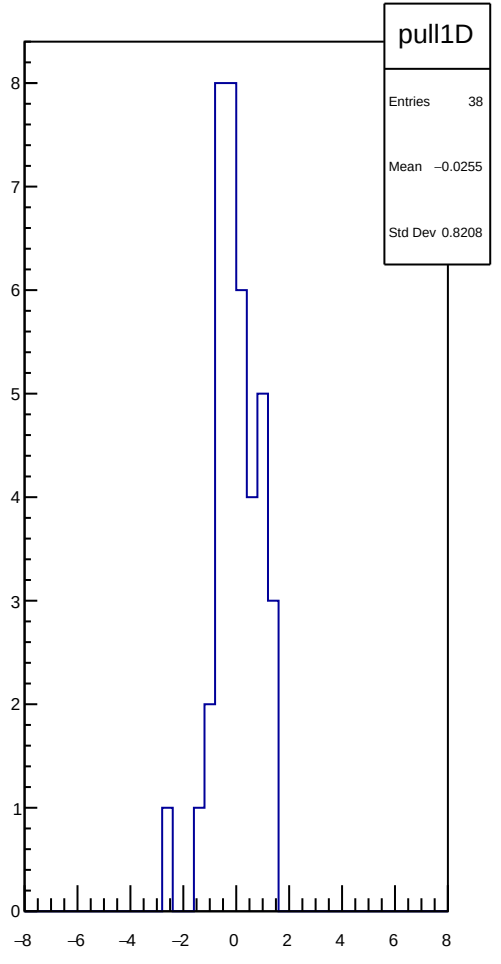

pull1D
Entries 38
Mean −0.02009
Std Dev 0.8166

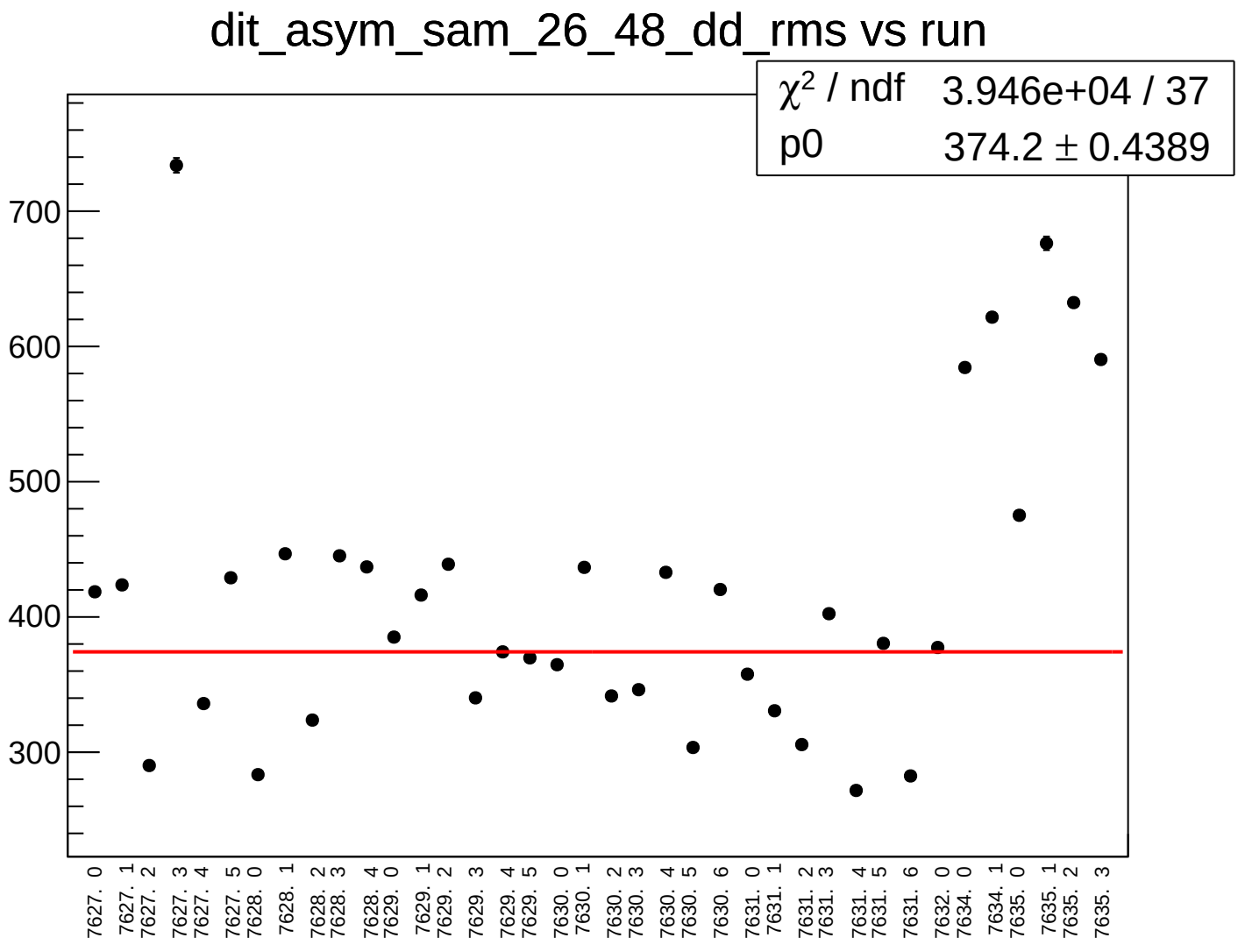

asym_sam_24_68_dd_correction_rms vs run
χ² / ndf 6247 / 37
p0 3147 ± 3.61
4200
4000
3800
3600
3400
3200
3000
2800
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

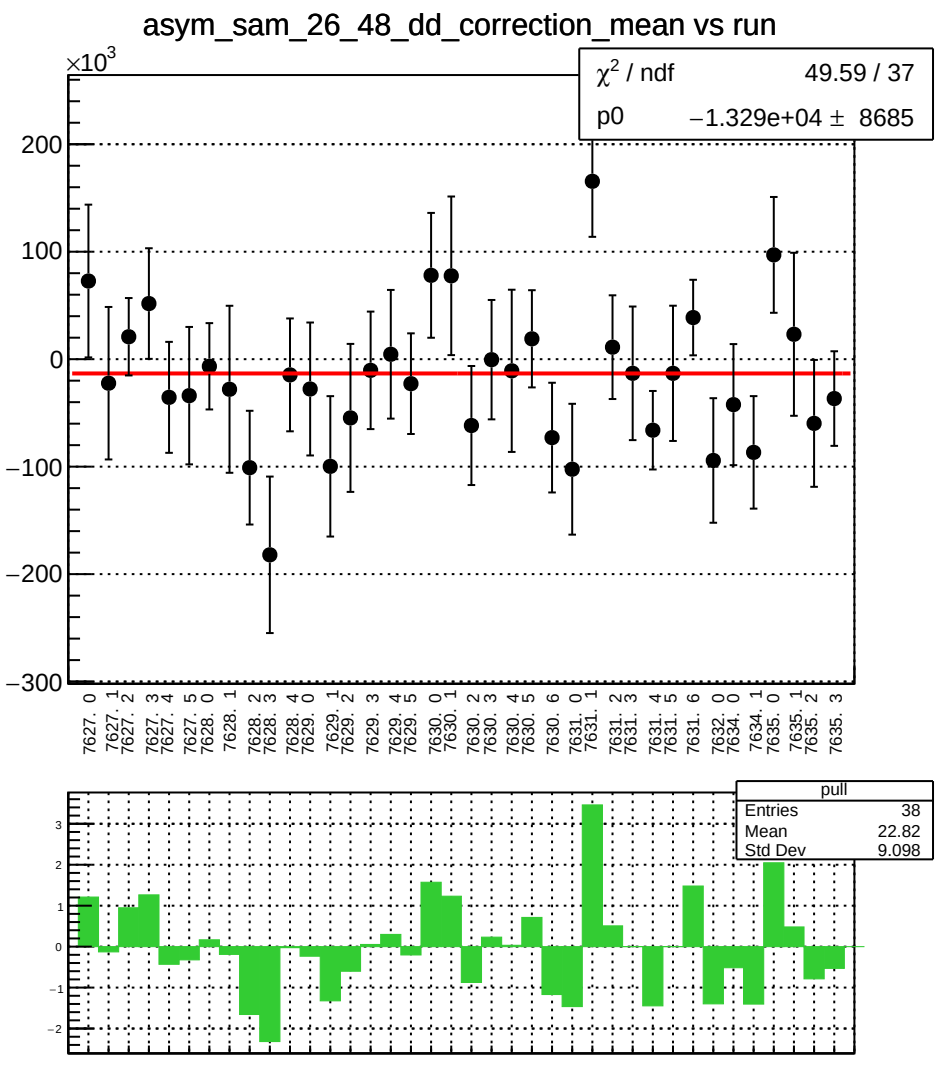

asym_sam_24_68_dd_mean vs run
×10^3
χ² / ndf 23.72 / 37
p0 3344 ± 5197
140
120
100
80
60
40
20
0
−20
−40
−60
−80
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 133.1
Std Dev 109.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 38
Mean 0.01789
Std Dev 0.7899
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

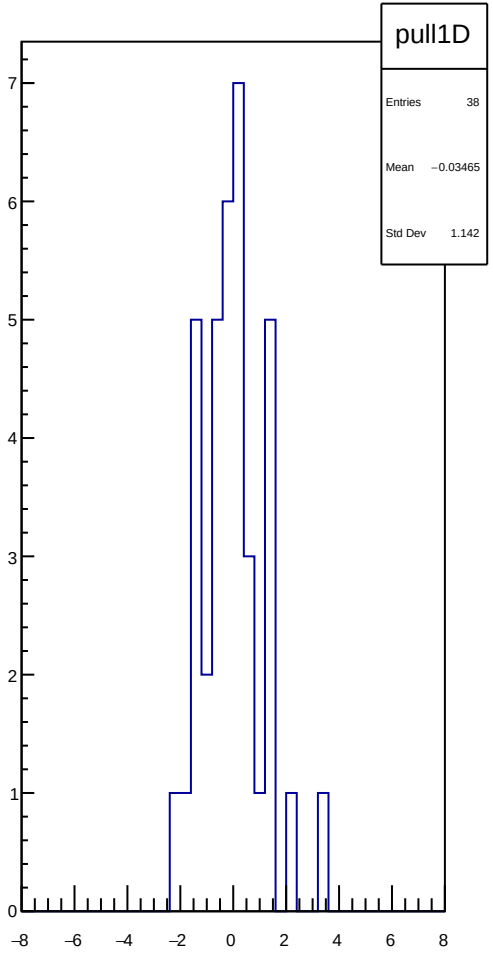

asym_sam_24_68_dd_rms vs run
χ² / ndf 6539 / 37
p0 3203 ± 3.675
4200
4000
3800
3600
3400
3200
3000
2800
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

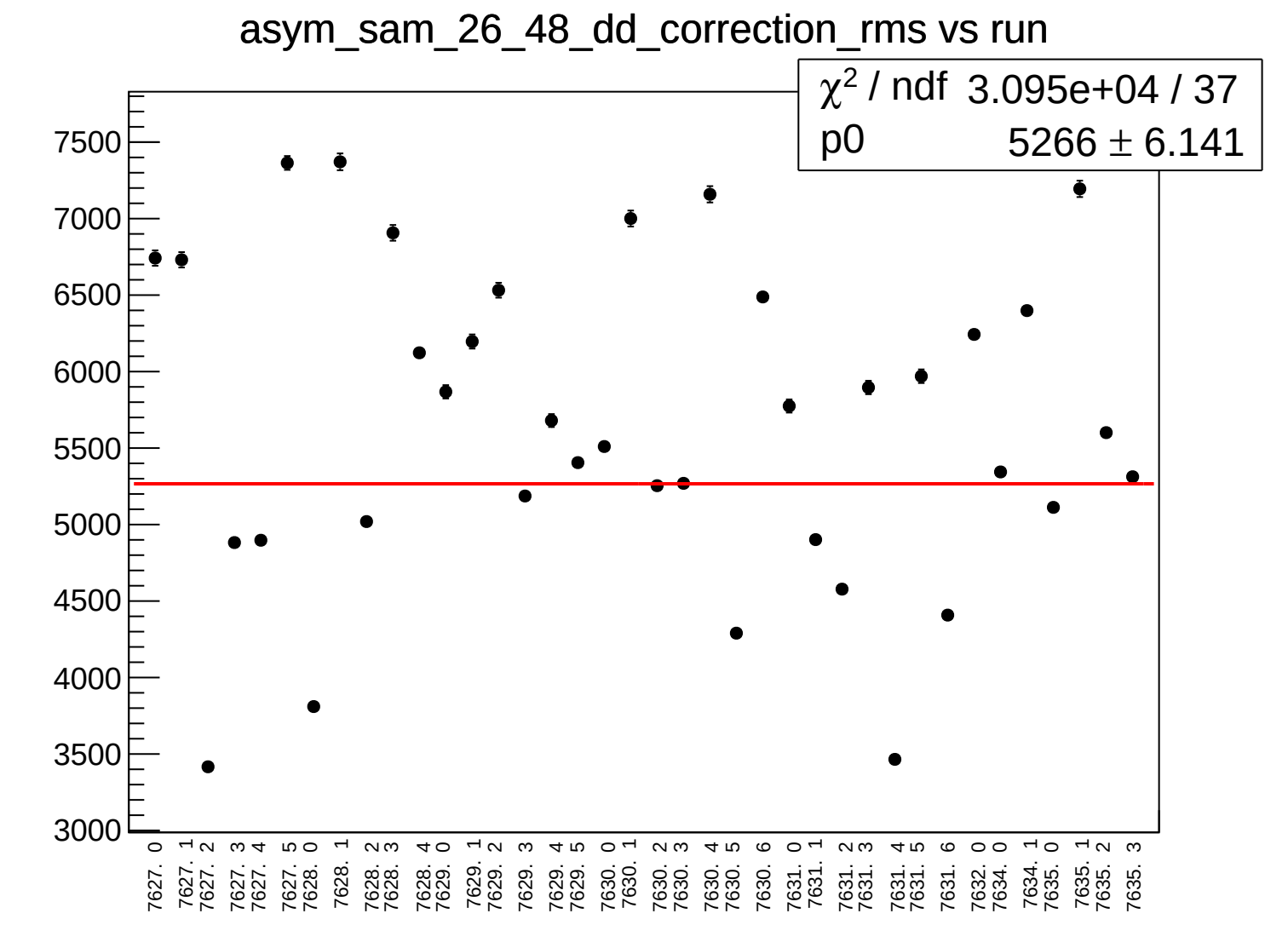

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 25.62 / 37
p0 260 ± 620.7
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −7.965
Std Dev 16.65
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

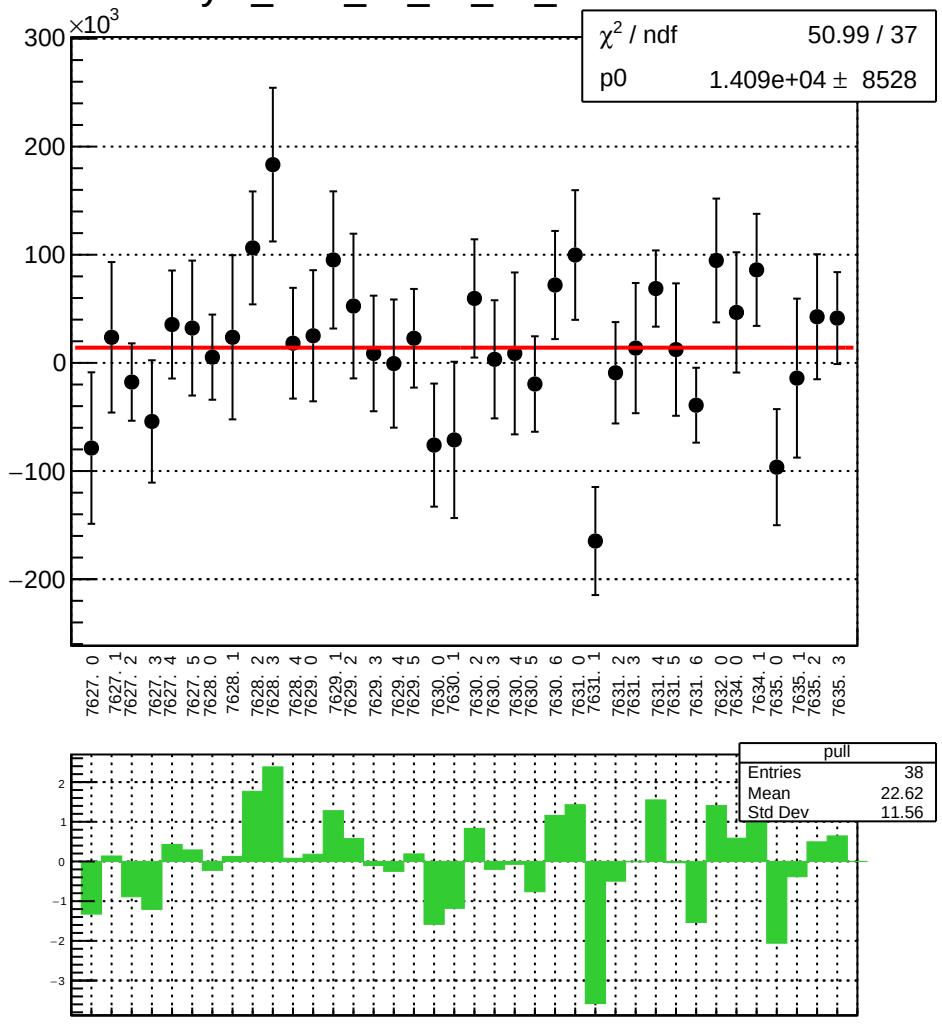

pull1D
Entries 38
Mean −0.0255
Std Dev 0.8208
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

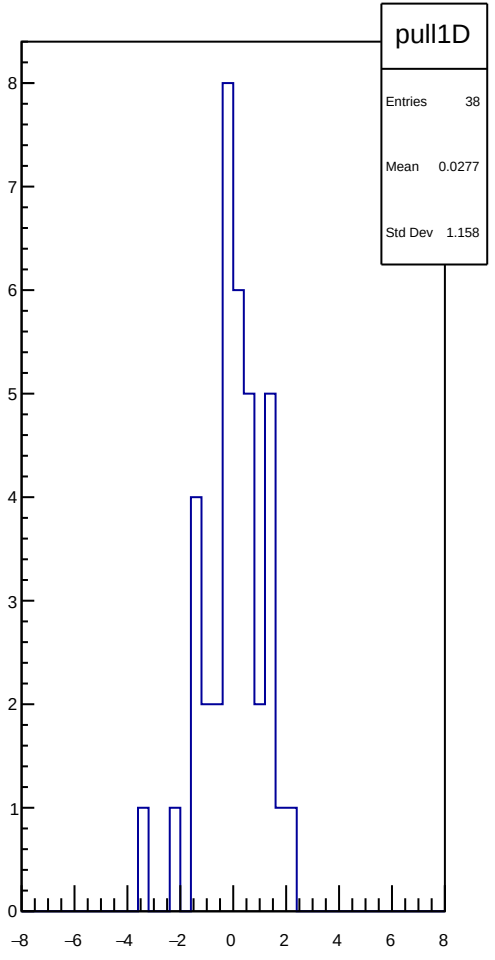

dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 3.946e+04 / 37
p0 374.2 ± 0.4389
700
600
500
400
300
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

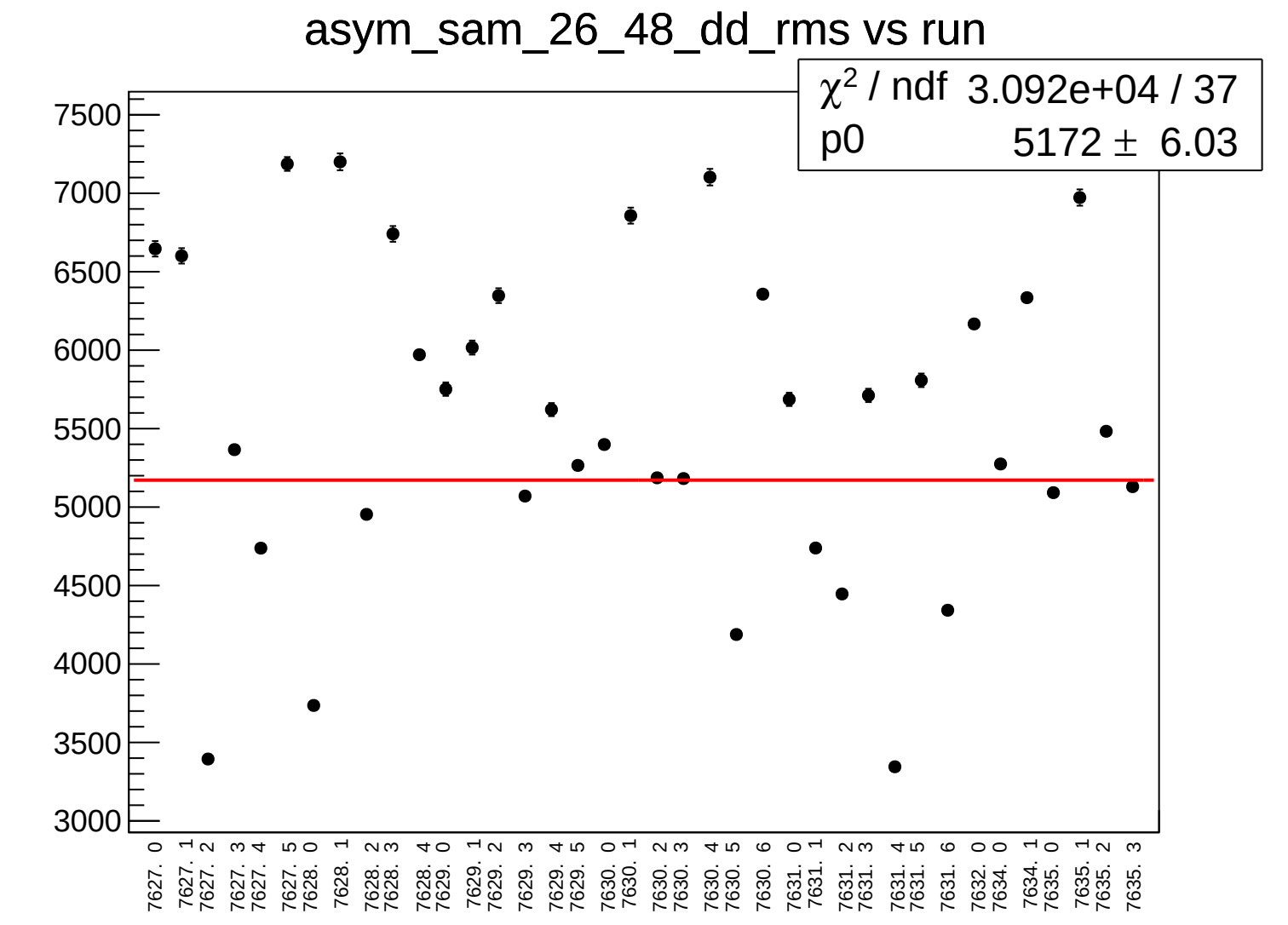

asym_sam_26_48_dd_correction_mean vs run
×10^3
χ² / ndf 49.59 / 37
p0 −1.329e+04 ± 8685
200
100
0
−100
−200
−300
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 22.82
Std Dev 9.098
3
2
1
0
−1
−2

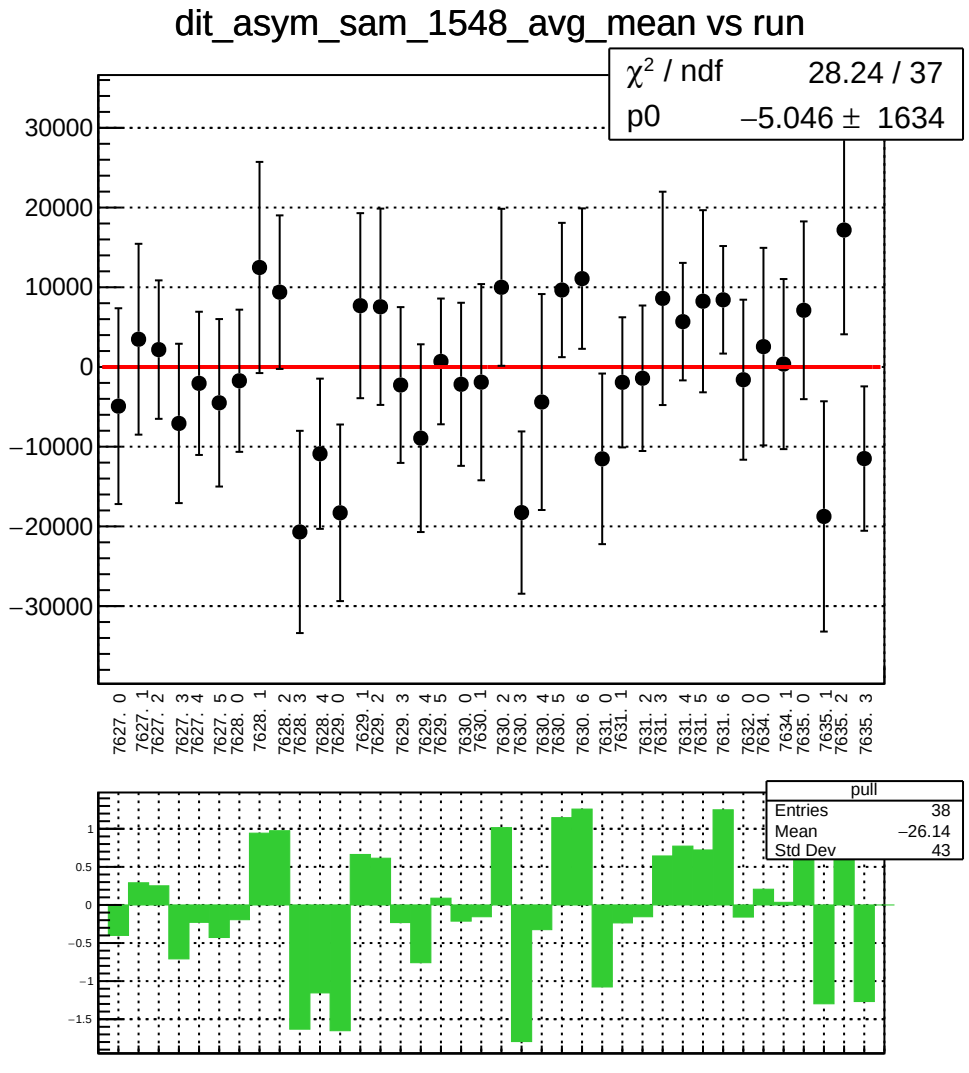

pull1D
Entries 38
Mean −0.03465
Std Dev 1.142
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

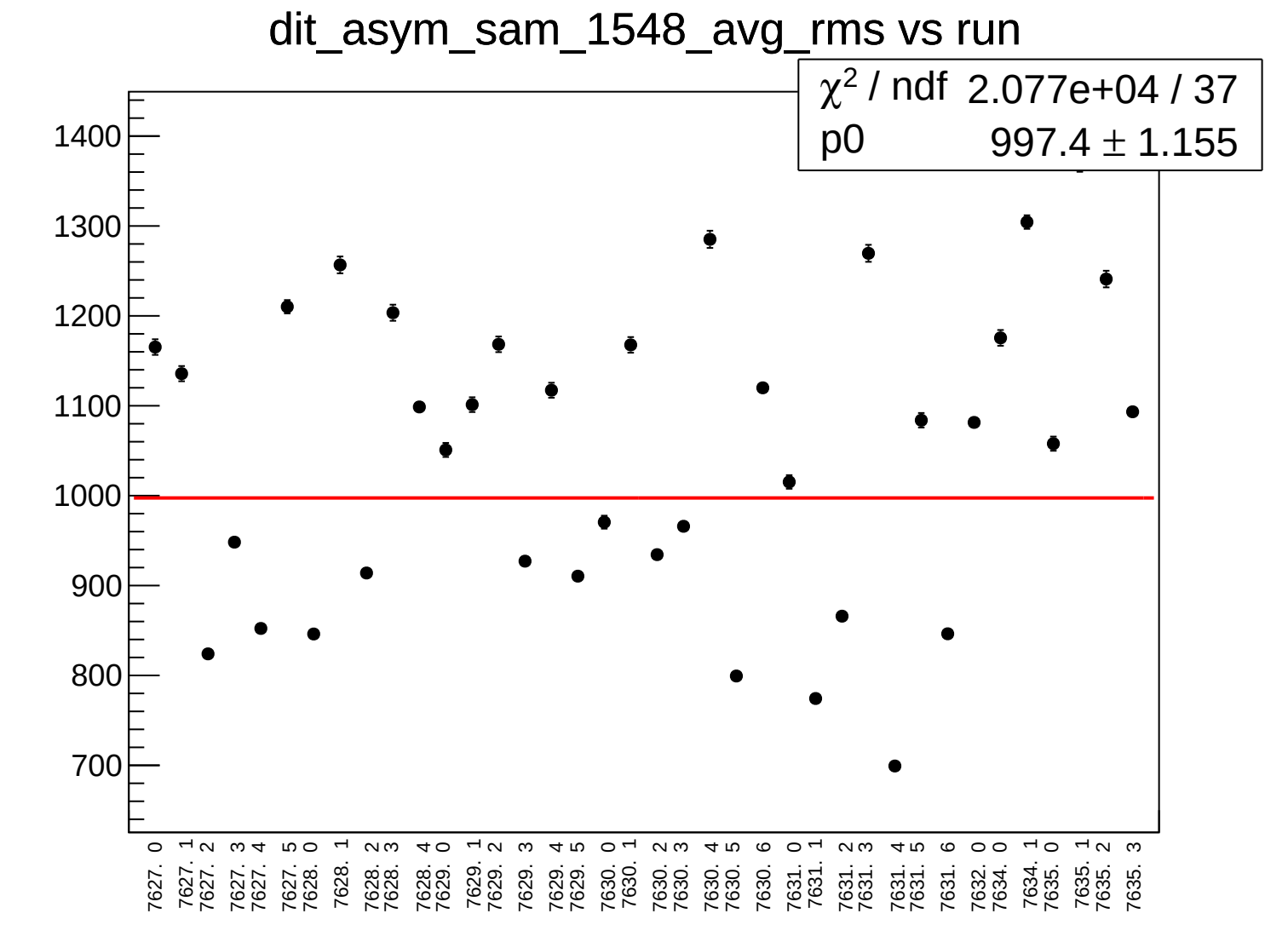

asym_sam_26_48_dd_correction_rms vs run
χ² / ndf 3.095e+04 / 37
p0 5266 ± 6.141
7500
7000
6500
6000
5500
5000
4500
4000
3500
3000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

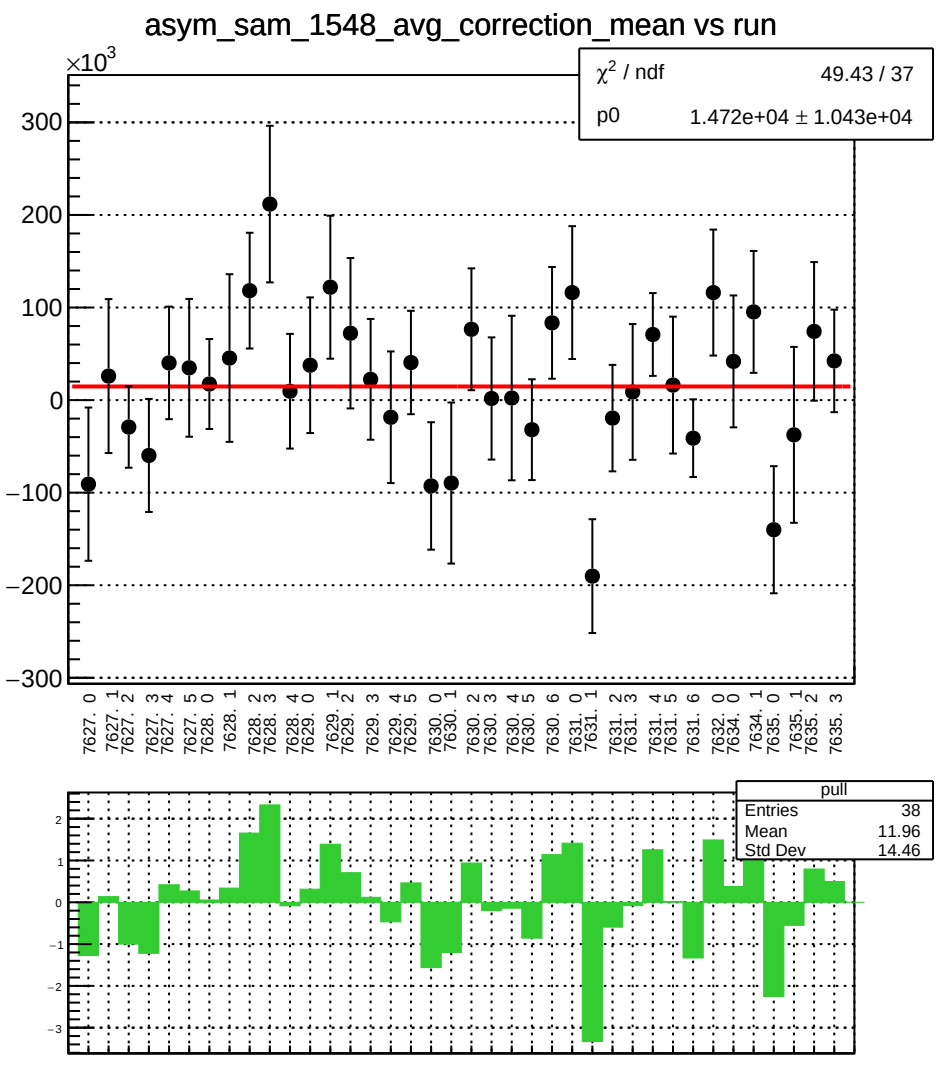

asym_sam_26_48_dd_mean vs run
×10^3
χ² / ndf 50.99 / 37
p0 1.409e+04 ± 8528
pull
Entries 38
Mean 22.62
Std Dev 11.56

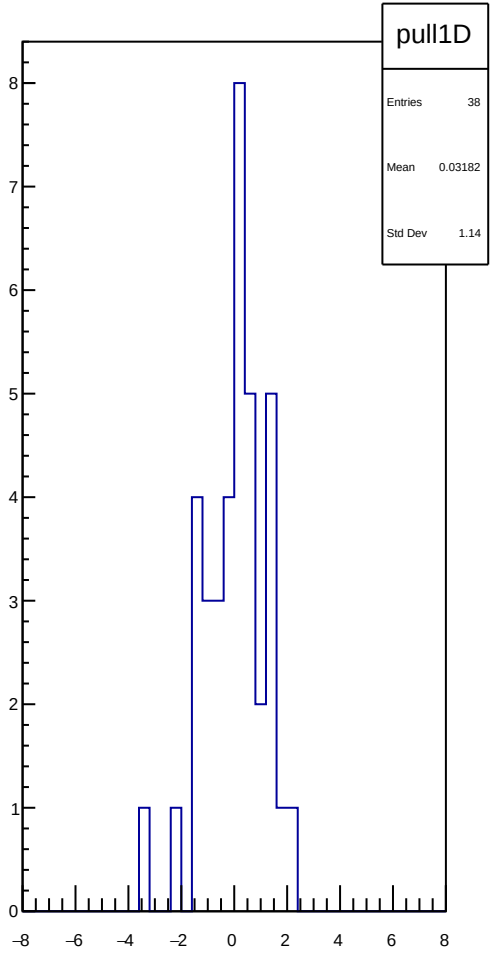

pull1D
Entries 38
Mean 0.0277
Std Dev 1.158

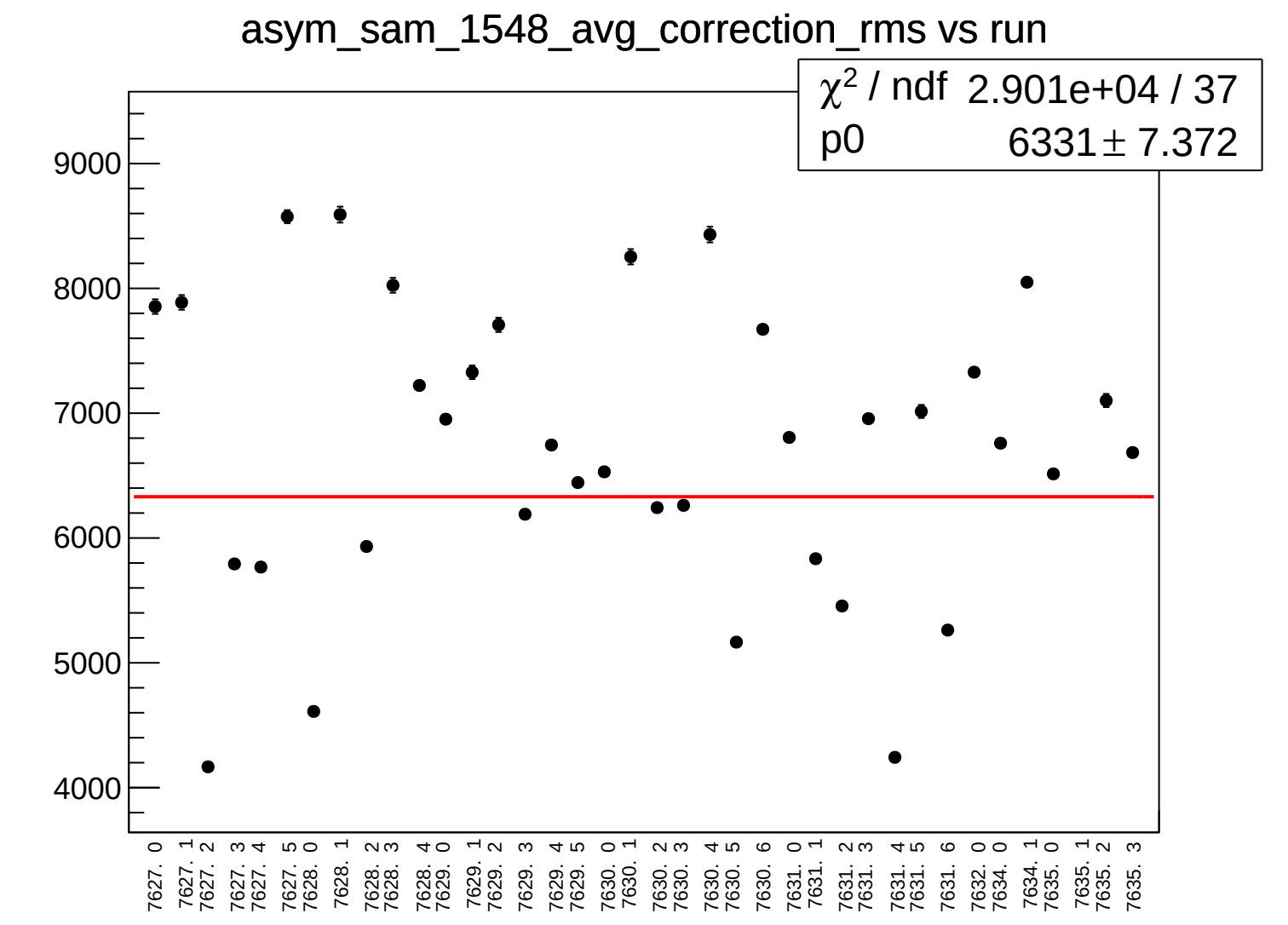

asym_sam_26_48_dd_rms vs run
χ² / ndf 3.092e+04 / 37
p0 5172 ± 6.03
7500
7000
6500
6000
5500
5000
4500
4000
3500
3000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

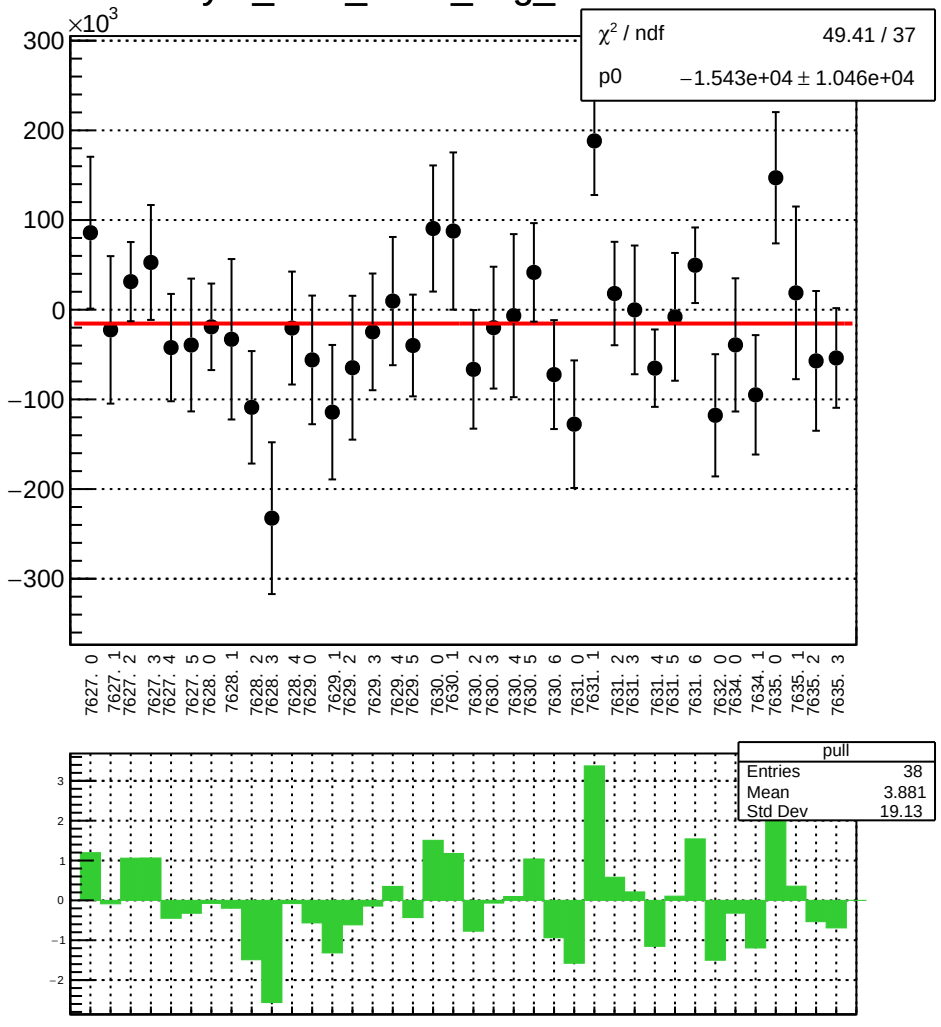

dit_asym_sam_1548_avg_mean vs run
χ² / ndf 28.24 / 37
p0 −5.046 ± 1634
30000
20000
10000
0
−10000
−20000
−30000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −26.14
Std Dev 43
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 38
Mean −0.0324
Std Dev 0.8615
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

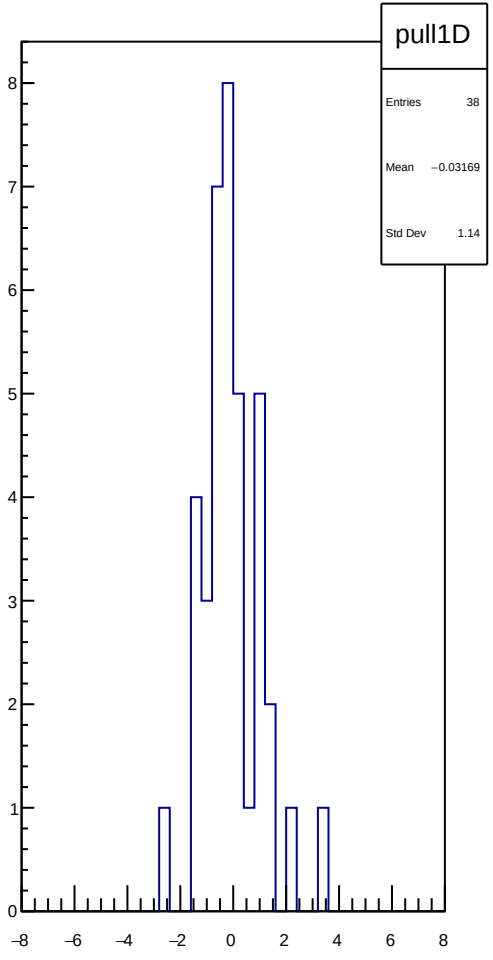

dit_asym_sam_1548_avg_rms vs run
χ² / ndf 2.077e+04 / 37
p0 997.4 ± 1.155
1400
1300
1200
1100
1000
900
800
700
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

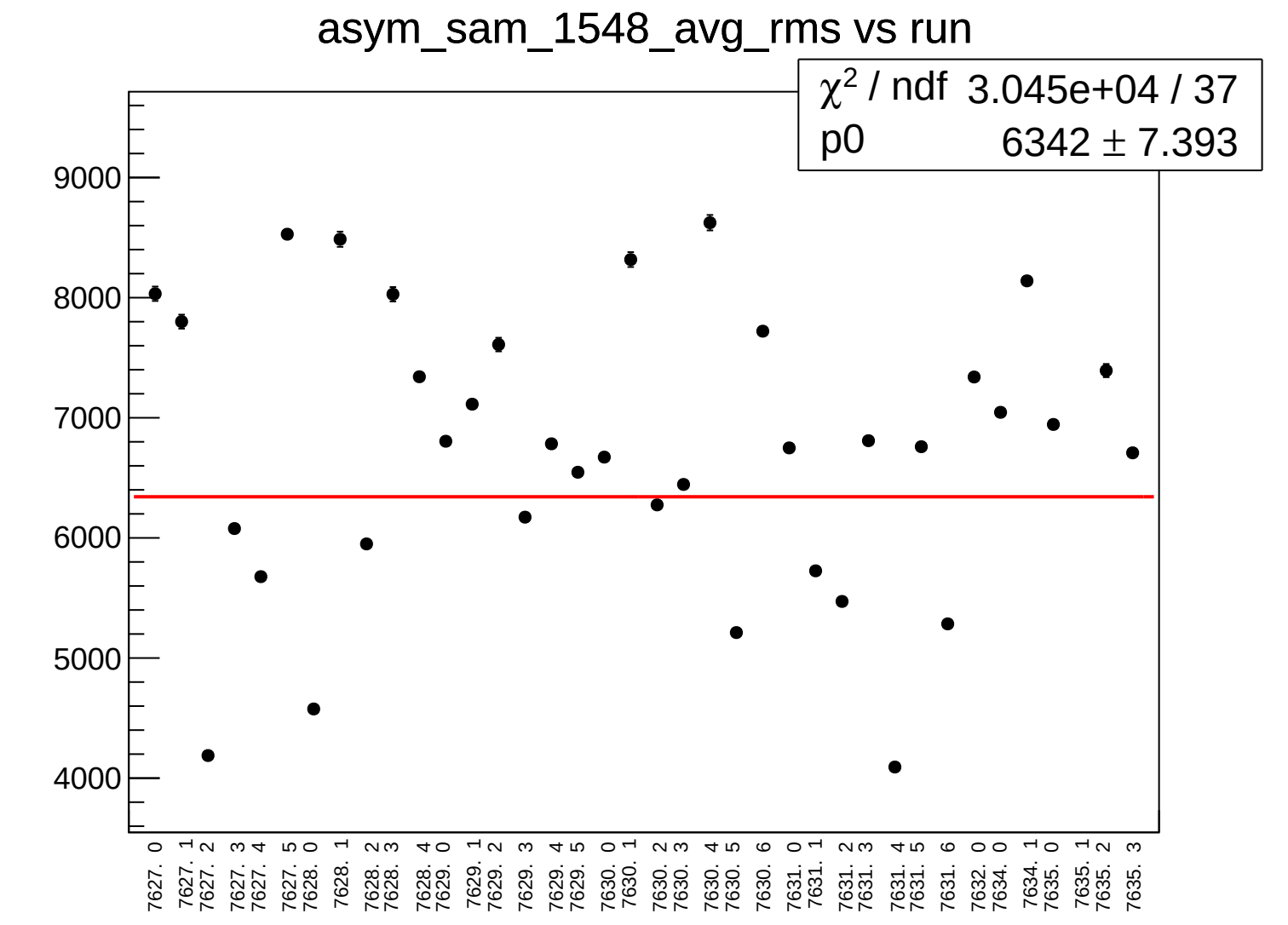

asym_sam_1548_avg_correction_mean vs run
×10^3
χ² / ndf 49.43 / 37
p0 1.472e+04 ± 1.043e+04
300
200
100
0
−100
−200
−300
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 11.96
Std Dev 14.46
2
1
0
−1
−2
−3

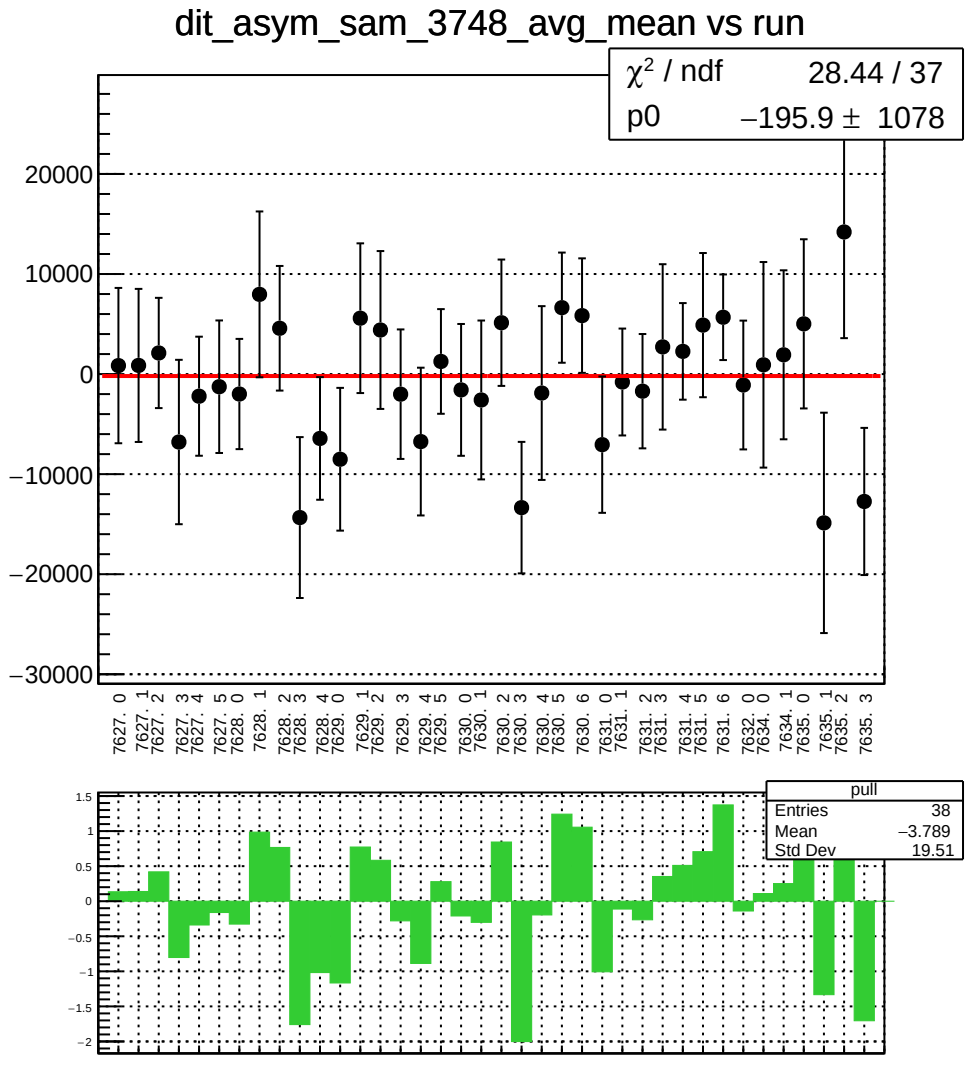

pull1D
Entries 38
Mean 0.03182
Std Dev 1.14
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

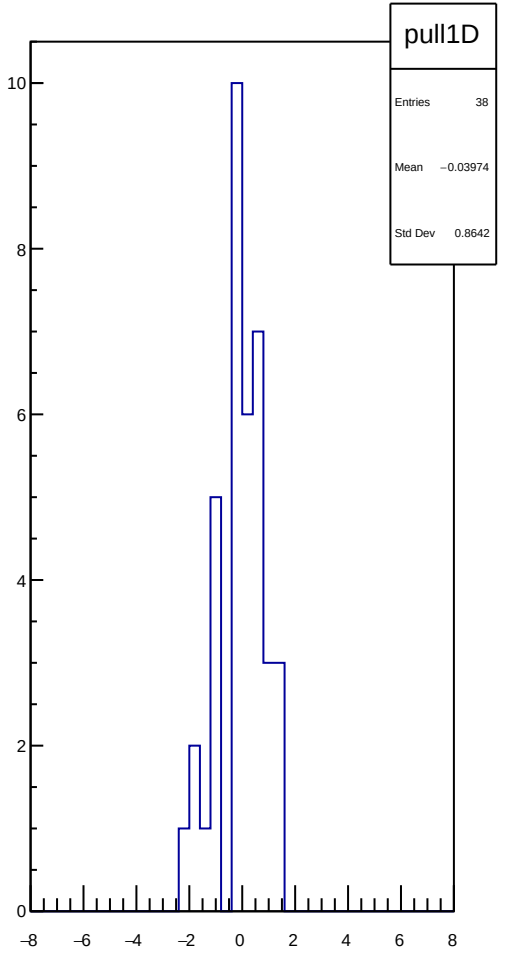

asym_sam_1548_avg_correction_rms vs run
χ² / ndf 2.901e+04 / 37
p0 6331 ± 7.372
9000
8000
7000
6000
5000
4000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

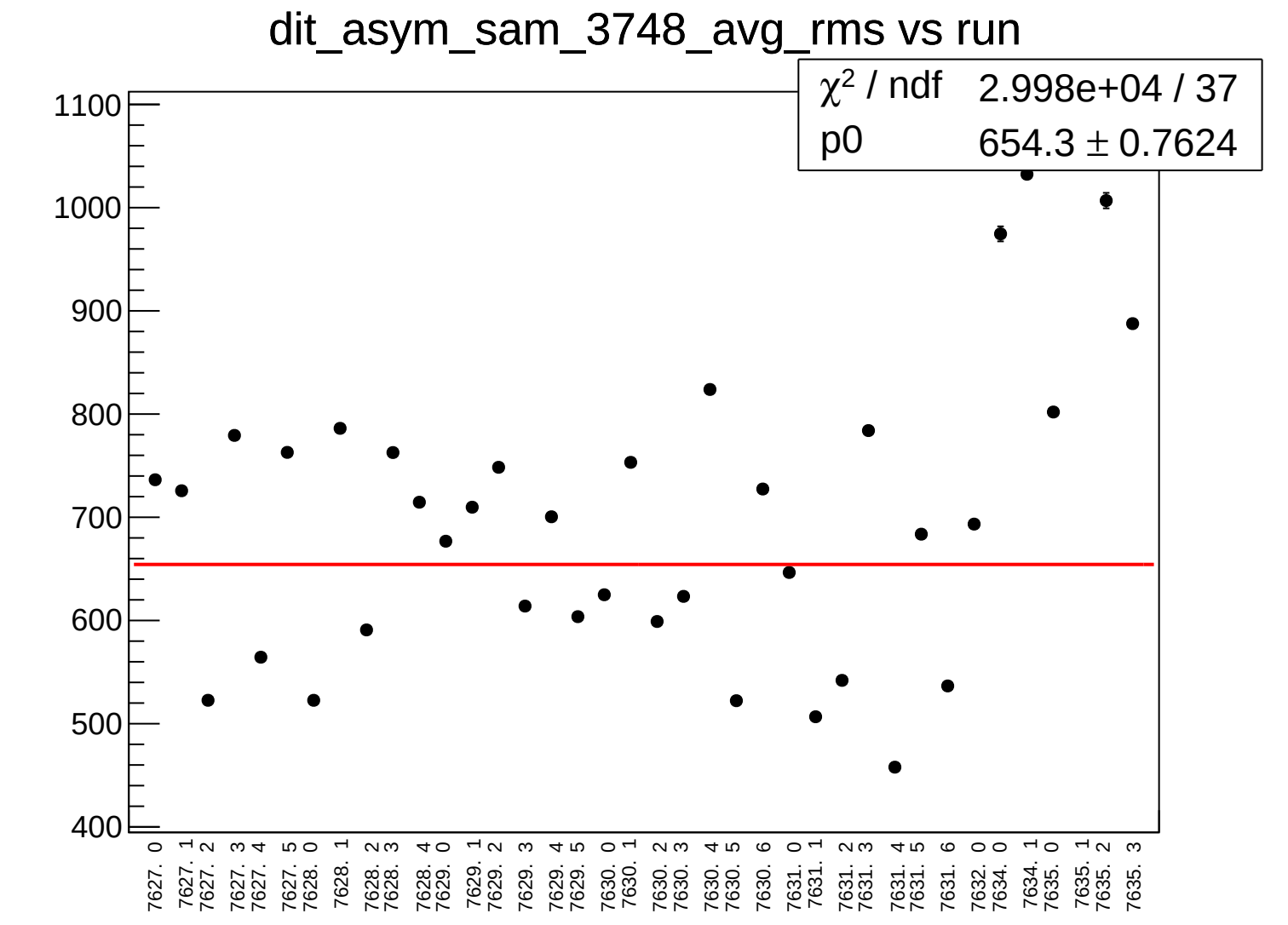

asym_sam_1548_avg_mean vs run
×10^3
χ² / ndf 49.41 / 37
p0 −1.543e+04 ± 1.046e+04
pull
Entries 38
Mean 3.881
Std Dev 19.13

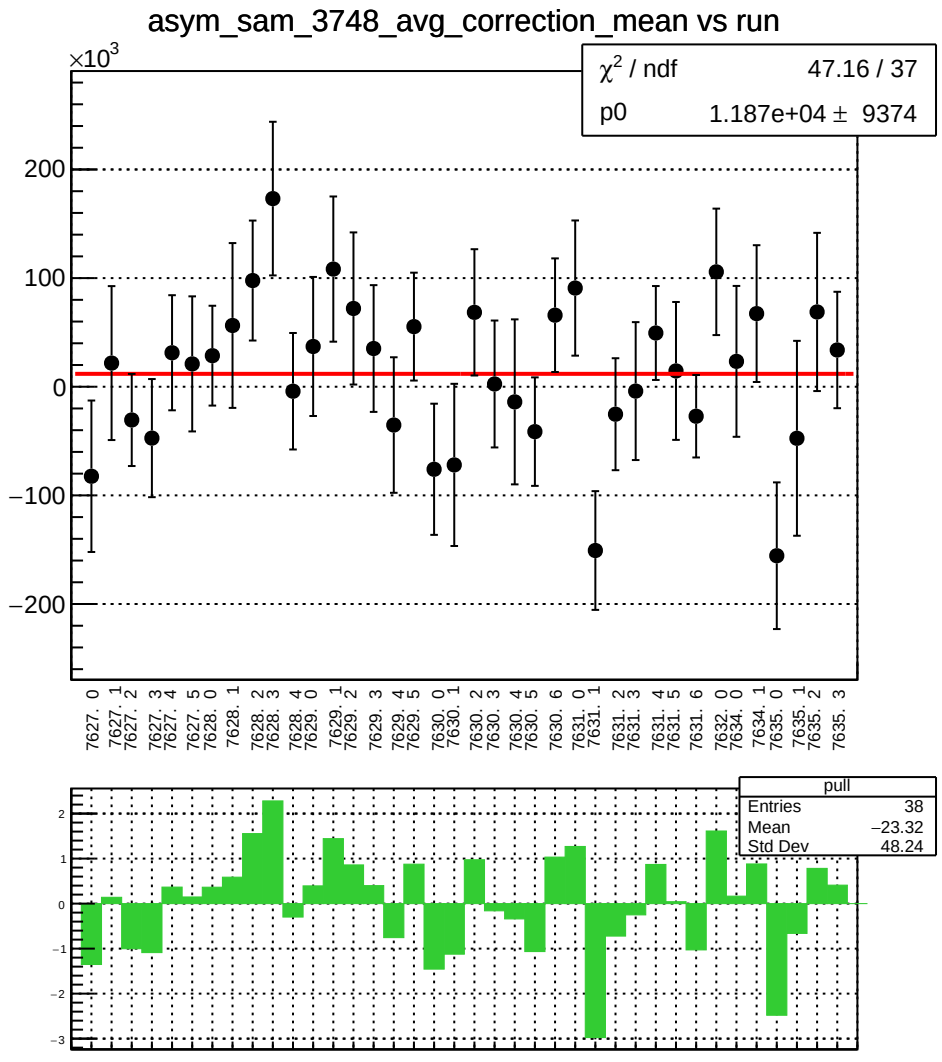

pull1D
Entries 38
Mean −0.03169
Std Dev 1.14

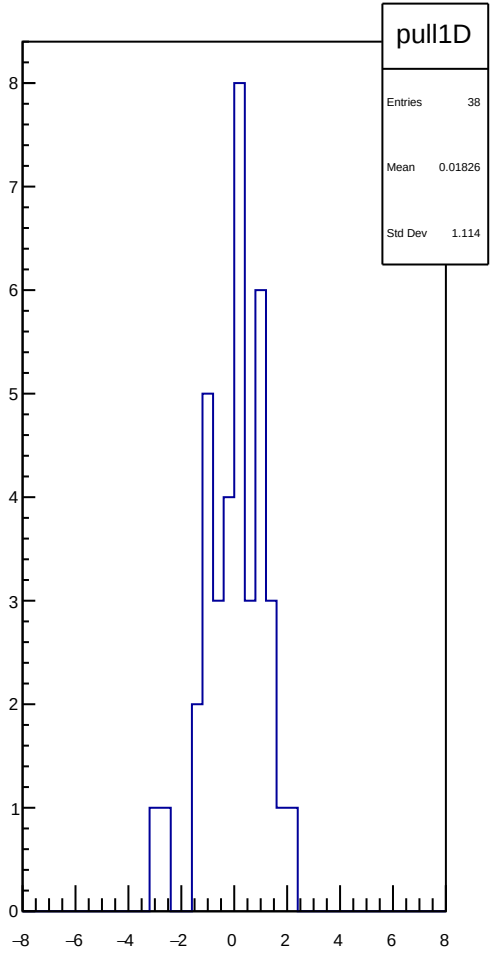

asym_sam_1548_avg_rms vs run
χ² / ndf 3.045e+04 / 37
p0 6342 ± 7.393
9000
8000
7000
6000
5000
4000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

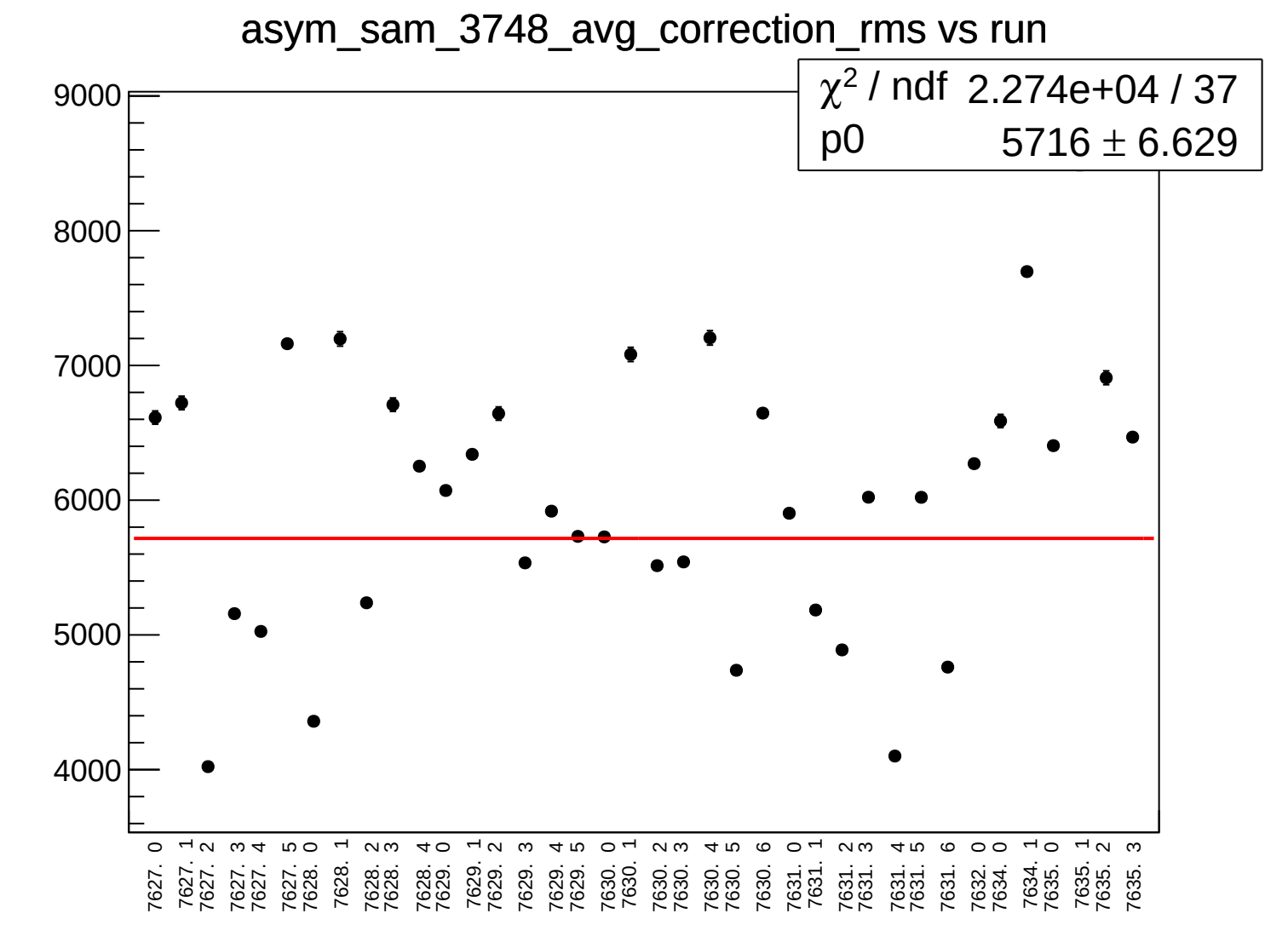

dit_asym_sam_3748_avg_mean vs run
χ² / ndf 28.44 / 37
p0 −195.9 ± 1078
20000
10000
0
−10000
−20000
−30000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −3.789
Std Dev 19.51
1.5
1
0.5
0
−0.5
−1
−1.5
−2

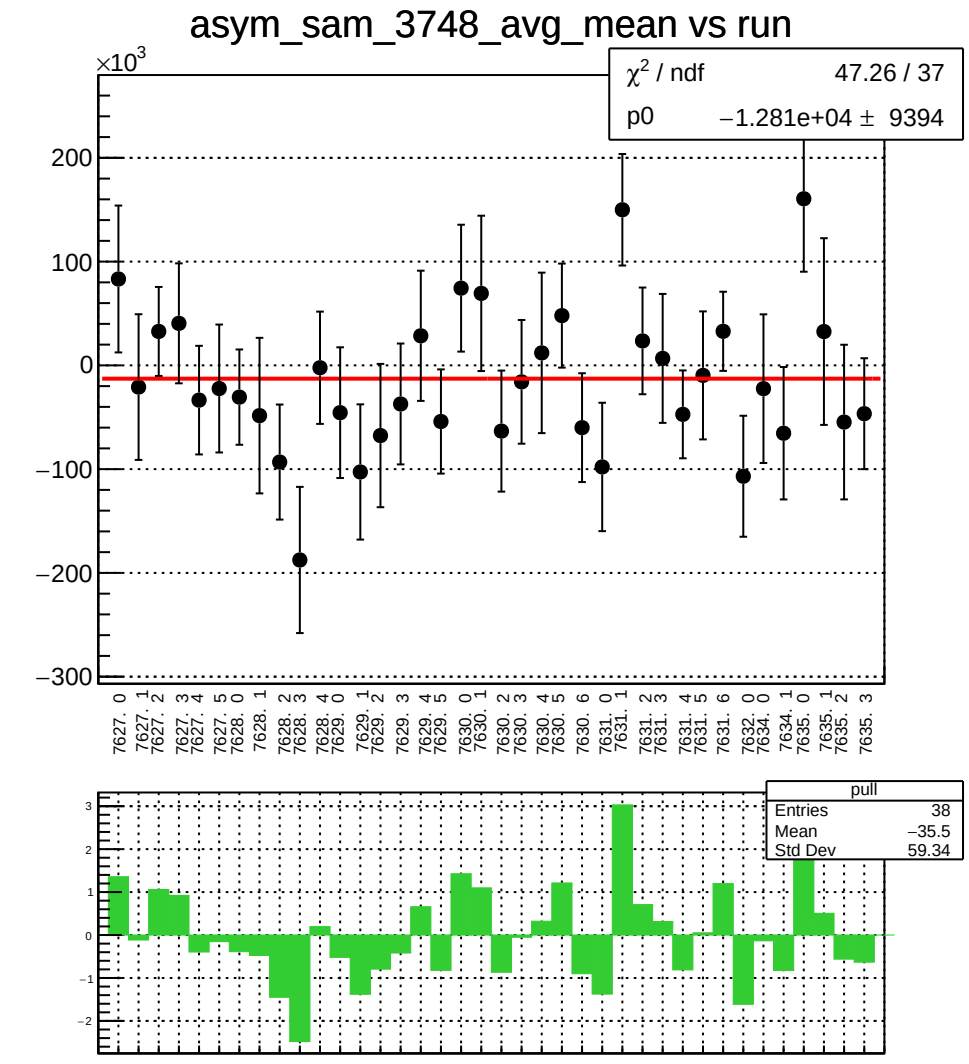

pull1D
Entries 38
Mean −0.03974
Std Dev 0.8642
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

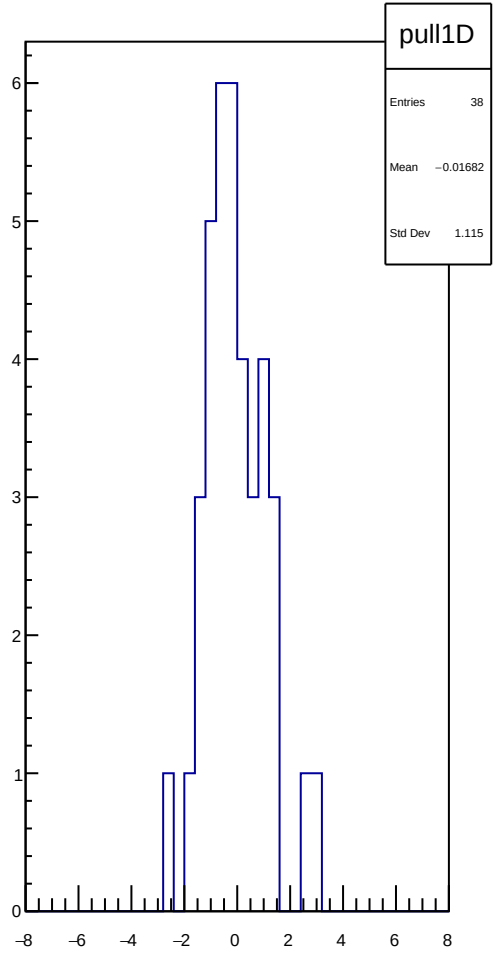

dit_asym_sam_3748_avg_rms vs run
χ² / ndf 2.998e+04 / 37
p0 654.3 ± 0.7624
1100
1000
900
800
700
600
500
400
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

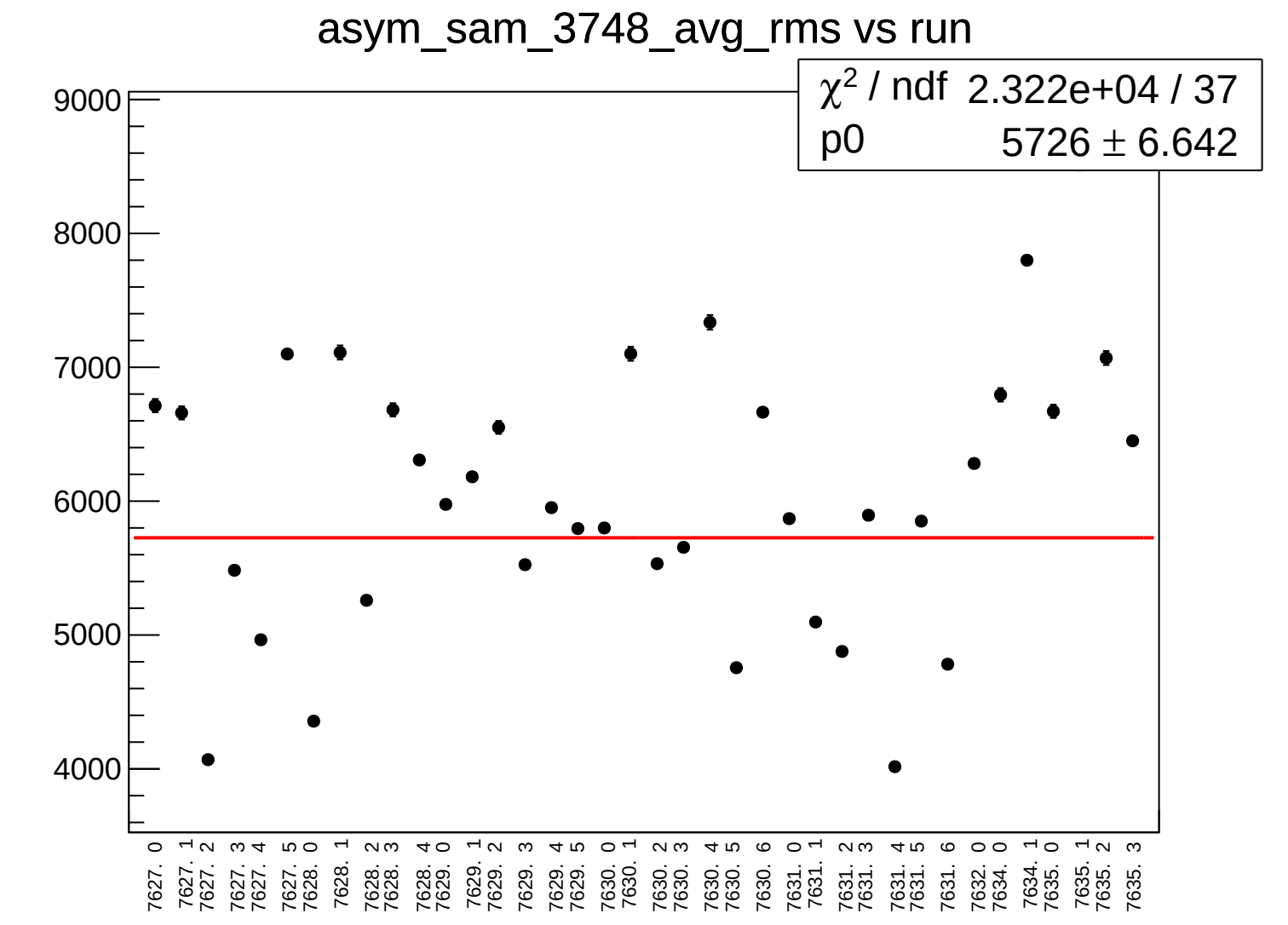

asym_sam_3748_avg_correction_mean vs run
×10^3
χ² / ndf 47.16 / 37
p0 1.187e+04 ± 9374
200
100
0
−100
−200
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 4
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −23.32
Std Dev 48.24
2
1
0
−1
−2
−3

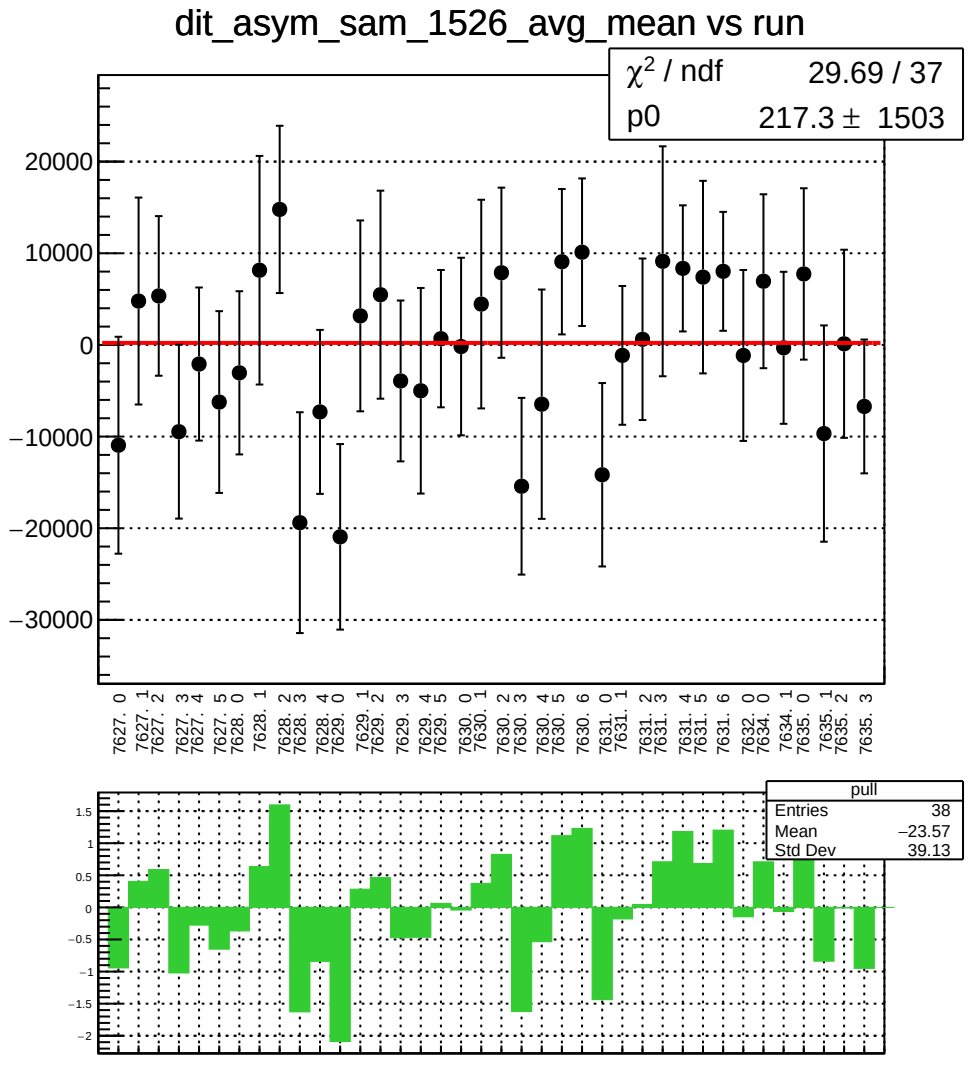

pull1D
Entries 38
Mean 0.01826
Std Dev 1.114
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

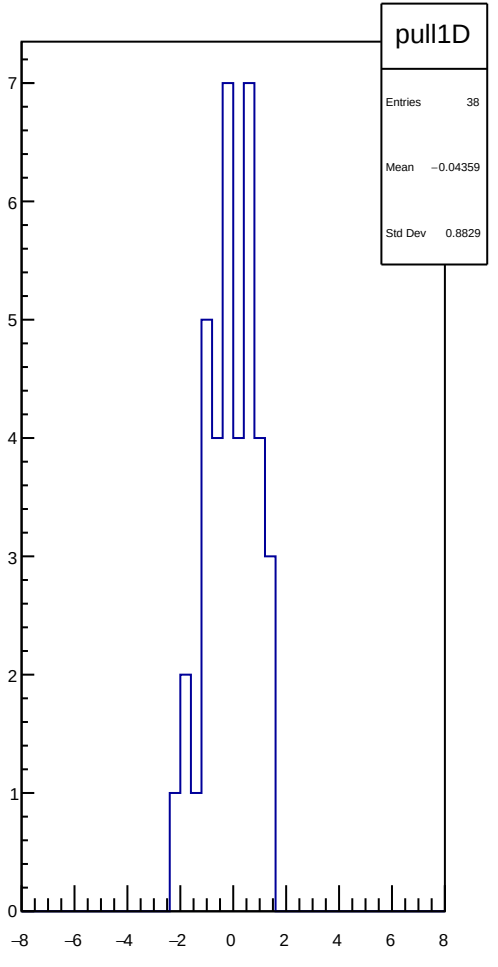

asym_sam_3748_avg_correction_rms vs run
χ² / ndf 2.274e+04 / 37
p0 5716 ± 6.629
9000
8000
7000
6000
5000
4000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

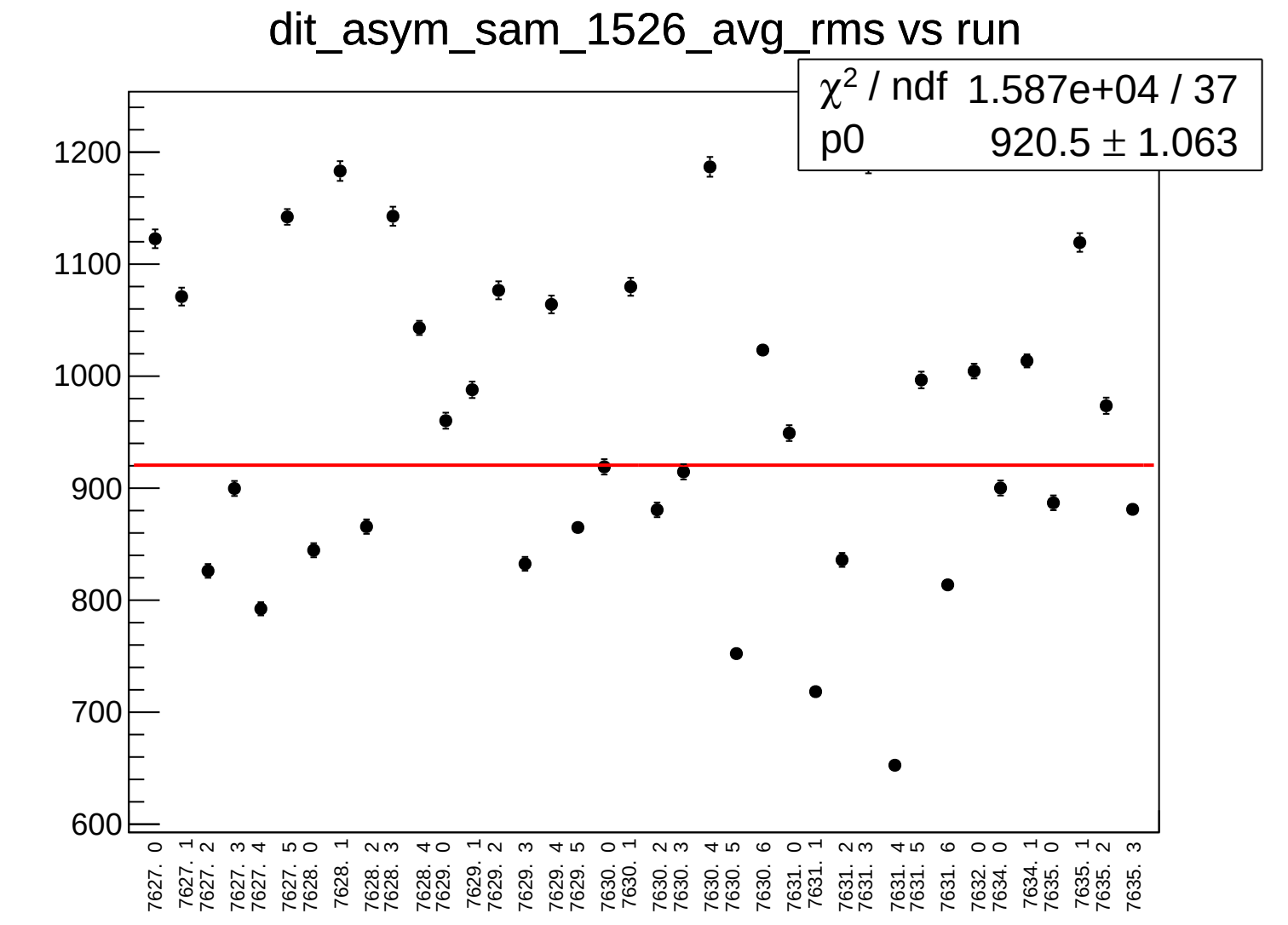

asym_sam_3748_avg_mean vs run
×10^3
χ² / ndf 47.26 / 37
p0 −1.281e+04 ± 9394
200
100
0
−100
−200
−300
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −35.5
Std Dev 59.34
3
2
1
0
−1
−2

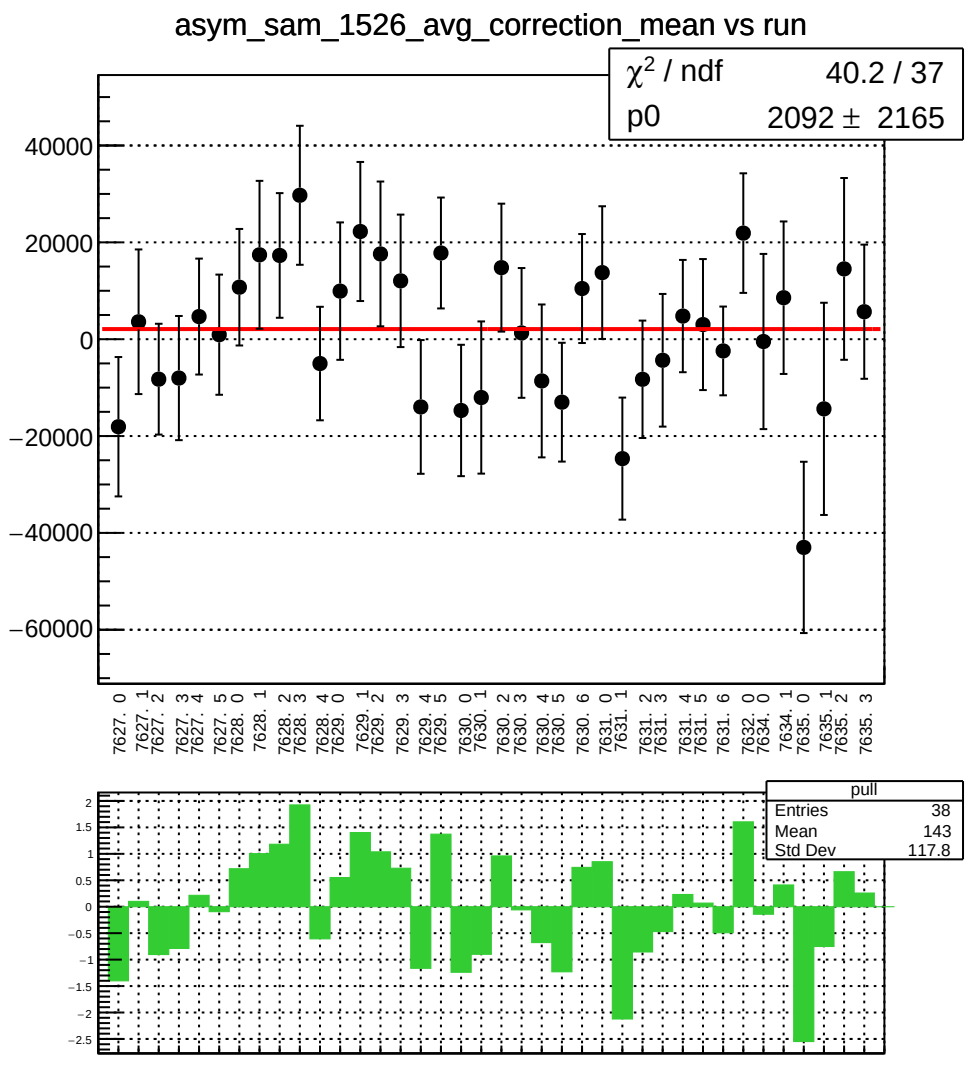

pull1D
Entries 38
Mean −0.01682
Std Dev 1.115
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

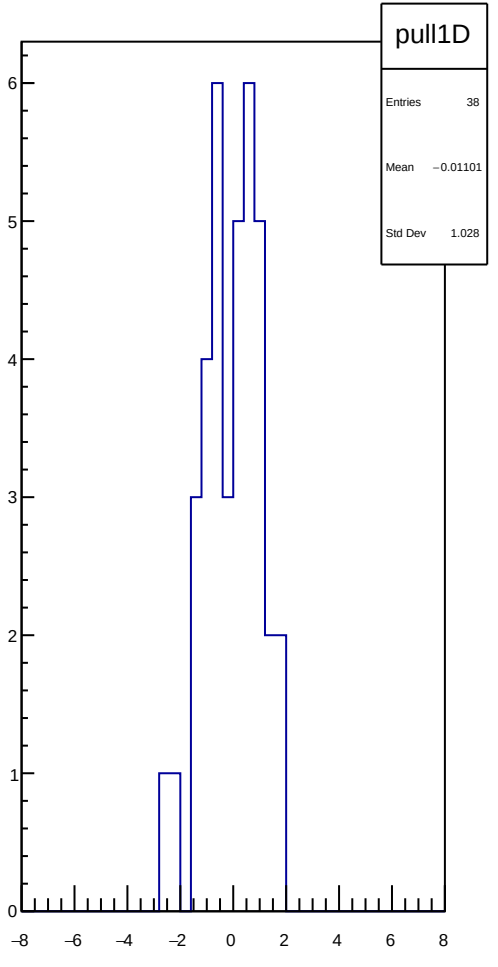

asym_sam_3748_avg_rms vs run
χ² / ndf 2.322e+04 / 37
p0 5726 ± 6.642
9000
8000
7000
6000
5000
4000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

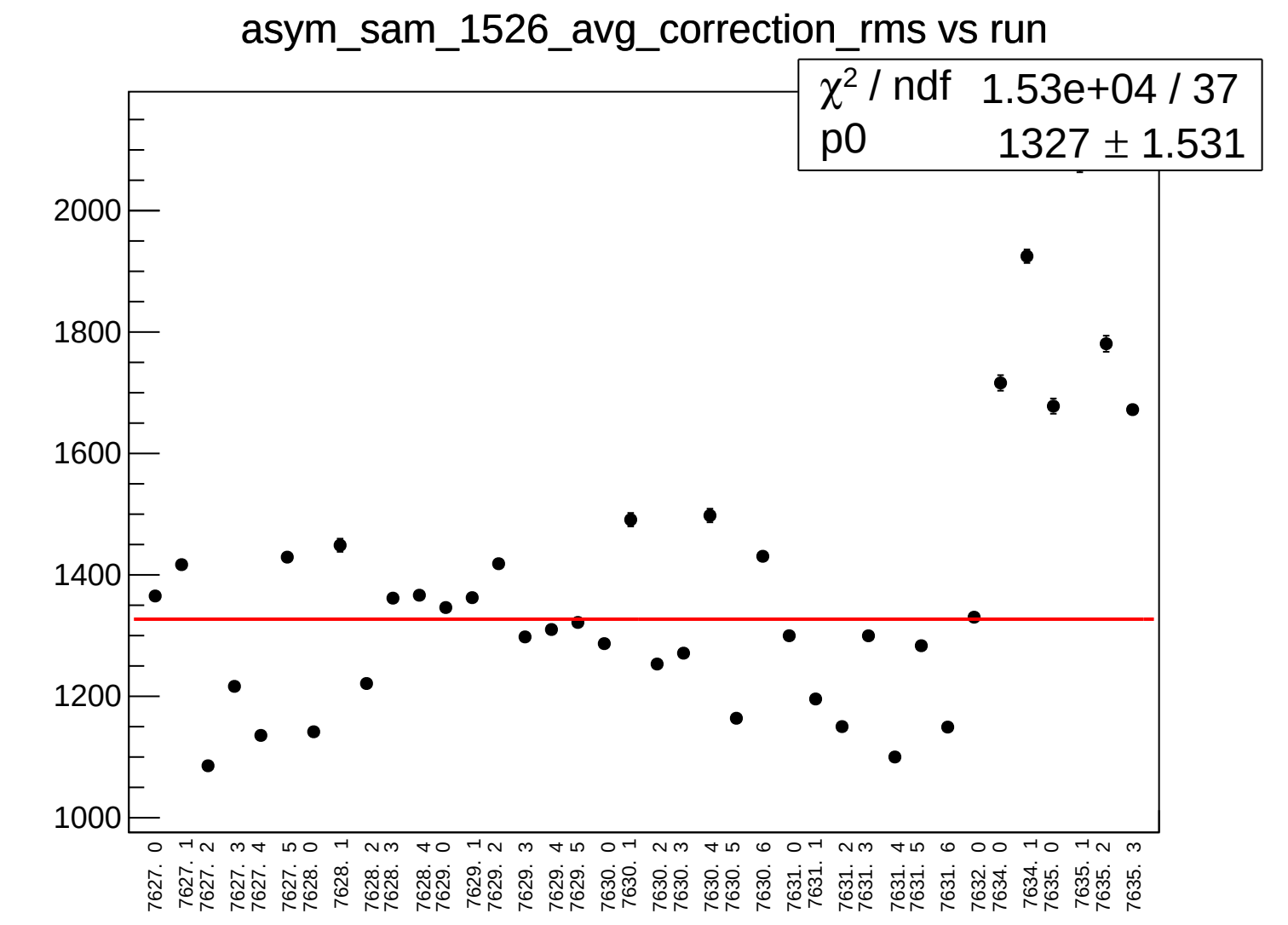

dit_asym_sam_1526_avg_mean vs run
χ² / ndf 29.69 / 37
p0 217.3 ± 1503
20000
10000
0
−10000
−20000
−30000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 4
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −23.57
Std Dev 39.13
1.5
1
0.5
0
−0.5
−1
−1.5
−2

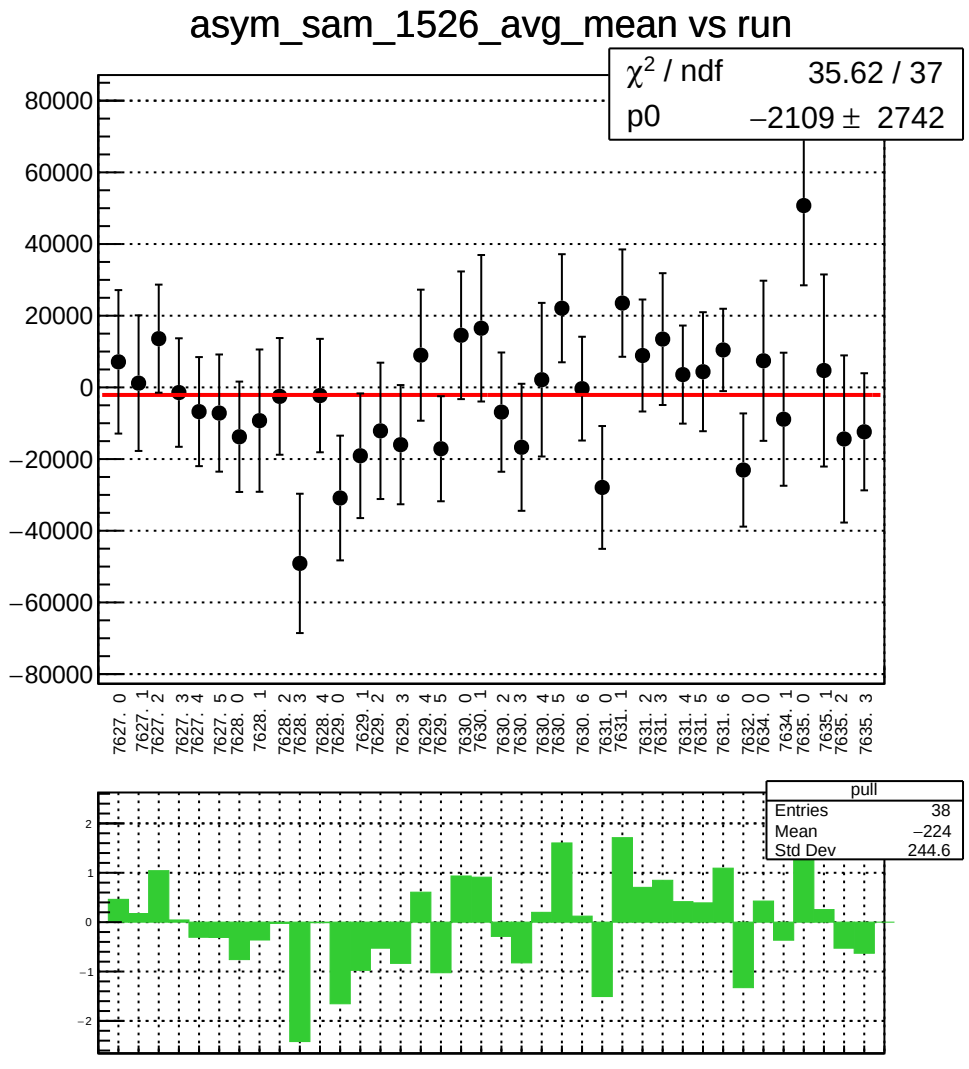

pull1D
Entries 38
Mean −0.04359
Std Dev 0.8829
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

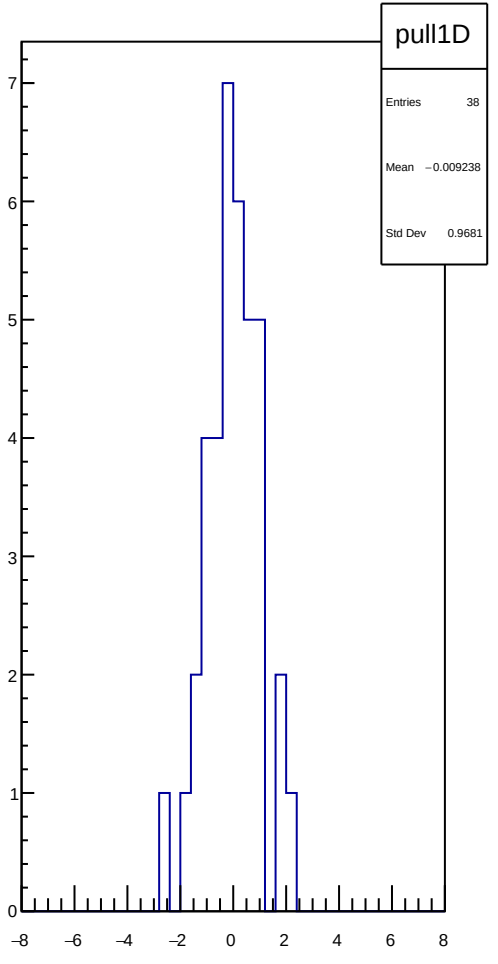

dit_asym_sam_1526_avg_rms vs run
χ² / ndf 1.587e+04 / 37
p0 920.5 ± 1.063
1200
1100
1000
900
800
700
600
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

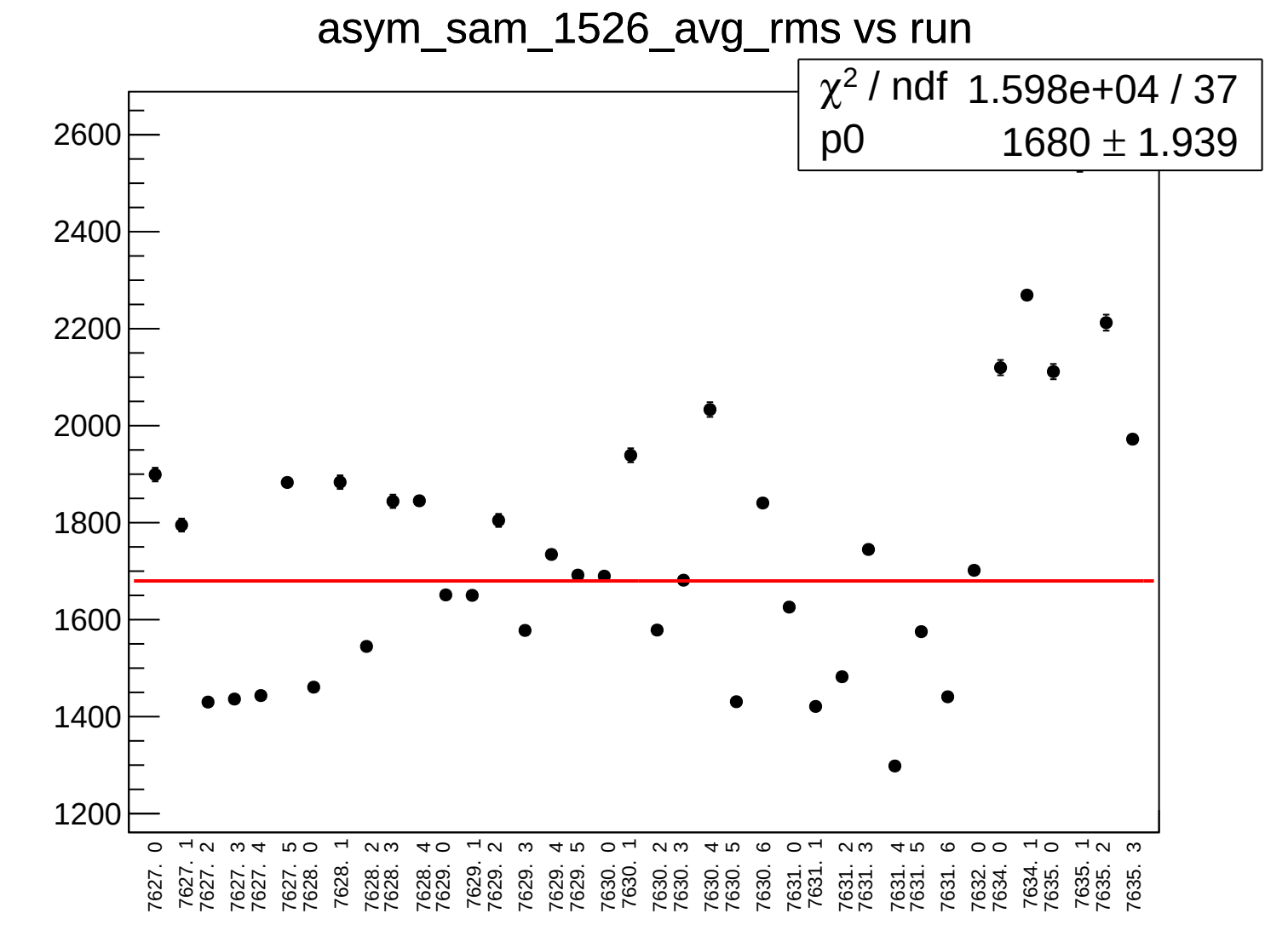

asym_sam_1526_avg_correction_mean vs run
χ² / ndf 40.2 / 37
p0 2092 ± 2165
40000
20000
0
−20000
−40000
−60000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 143
Std Dev 117.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

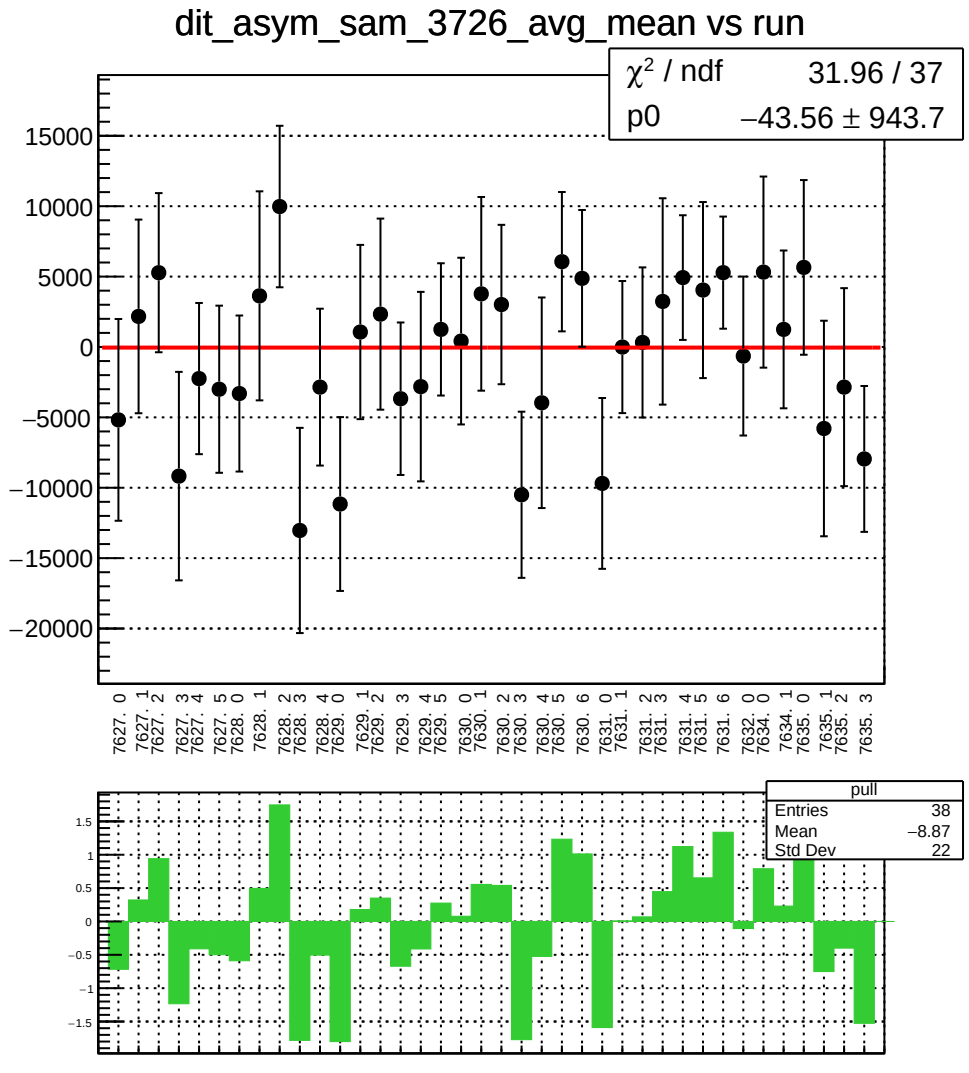

pull1D
Entries 38
Mean −0.01101
Std Dev 1.028
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

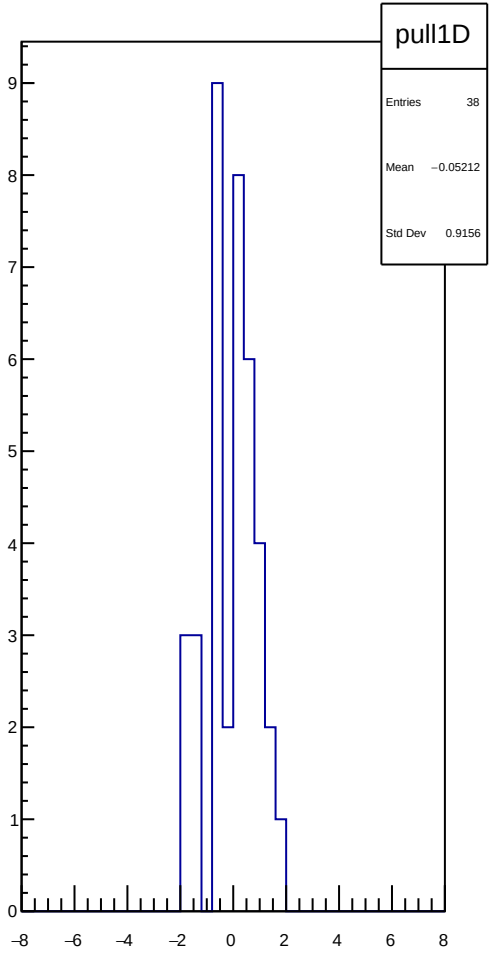

asym_sam_1526_avg_correction_rms vs run
χ² / ndf 1.53e+04 / 37
p0 1327 ± 1.531
2000
1800
1600
1400
1200
1000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

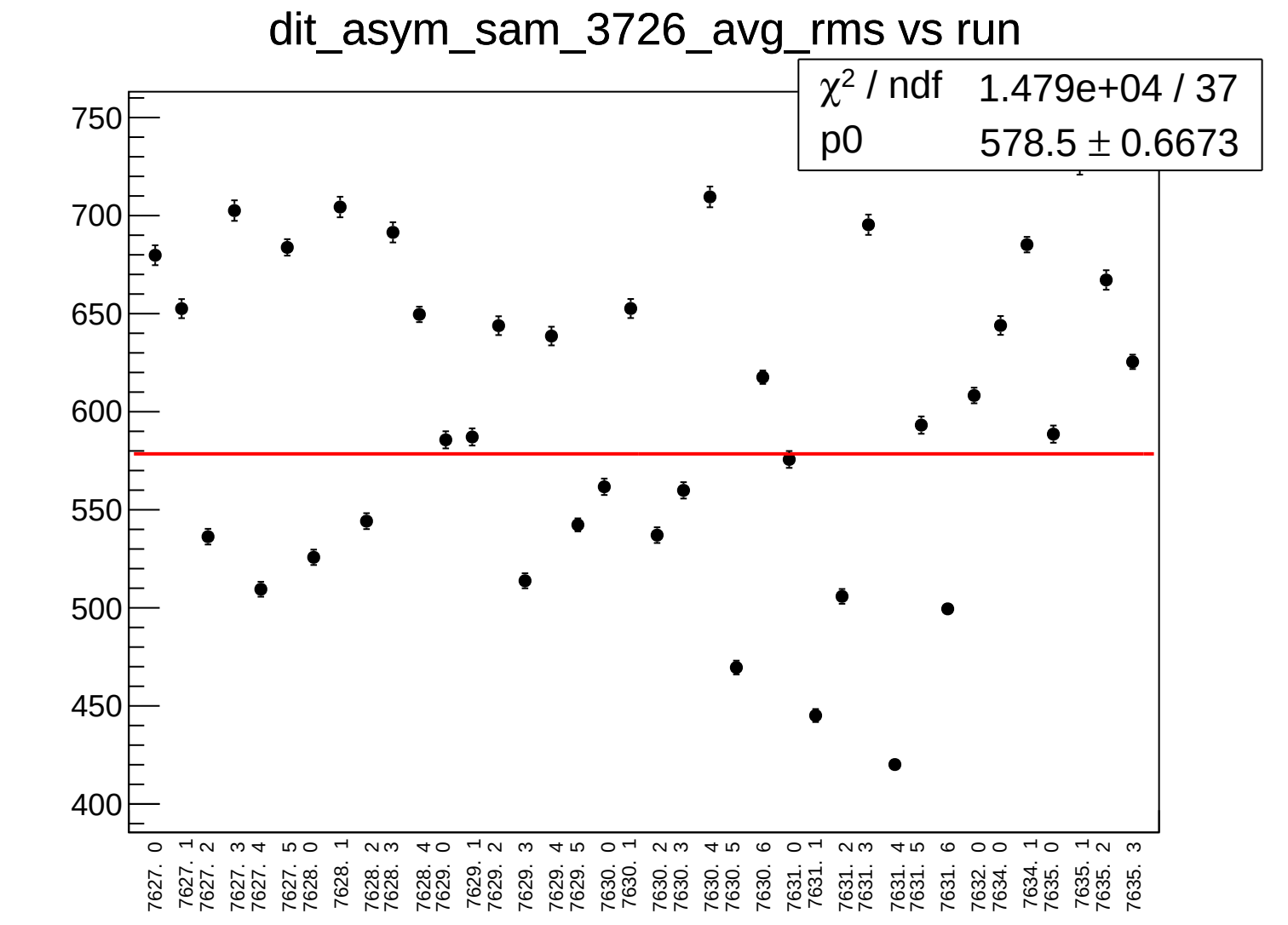

asym_sam_1526_avg_mean vs run
χ² / ndf 35.62 / 37
p0 −2109 ± 2742
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −224
Std Dev 244.6
2
1
0
−1
−2

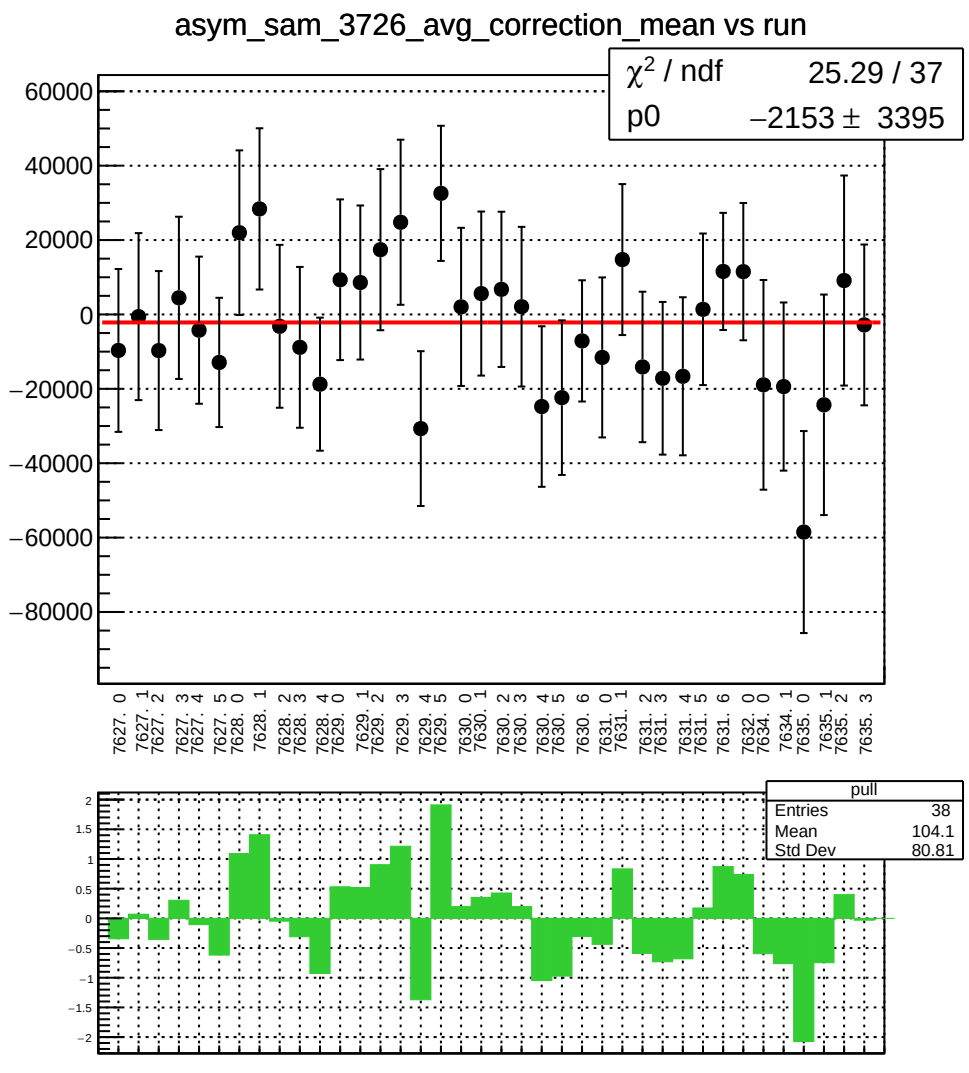

pull1D
Entries 38
Mean −0.009238
Std Dev 0.9681
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

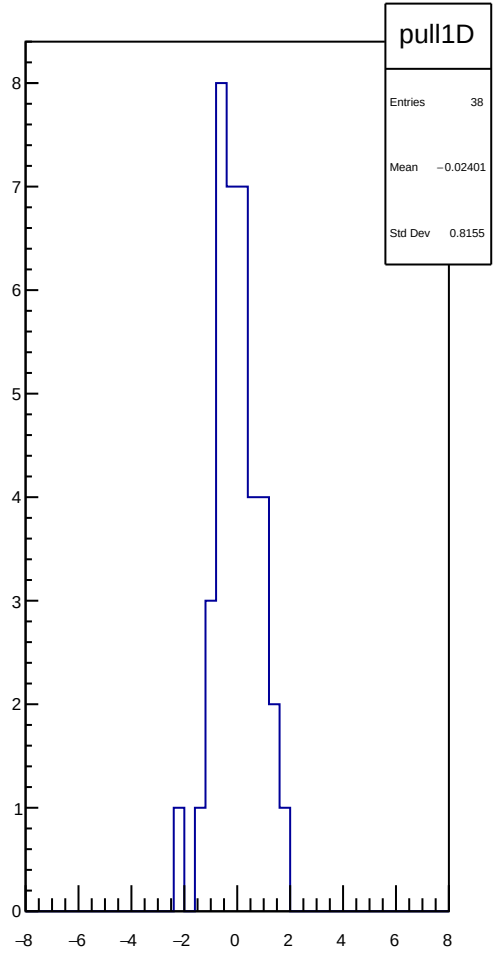

asym_sam_1526_avg_rms vs run
χ² / ndf 1.598e+04 / 37
p0 1680 ± 1.939
2600
2400
2200
2000
1800
1600
1400
1200
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

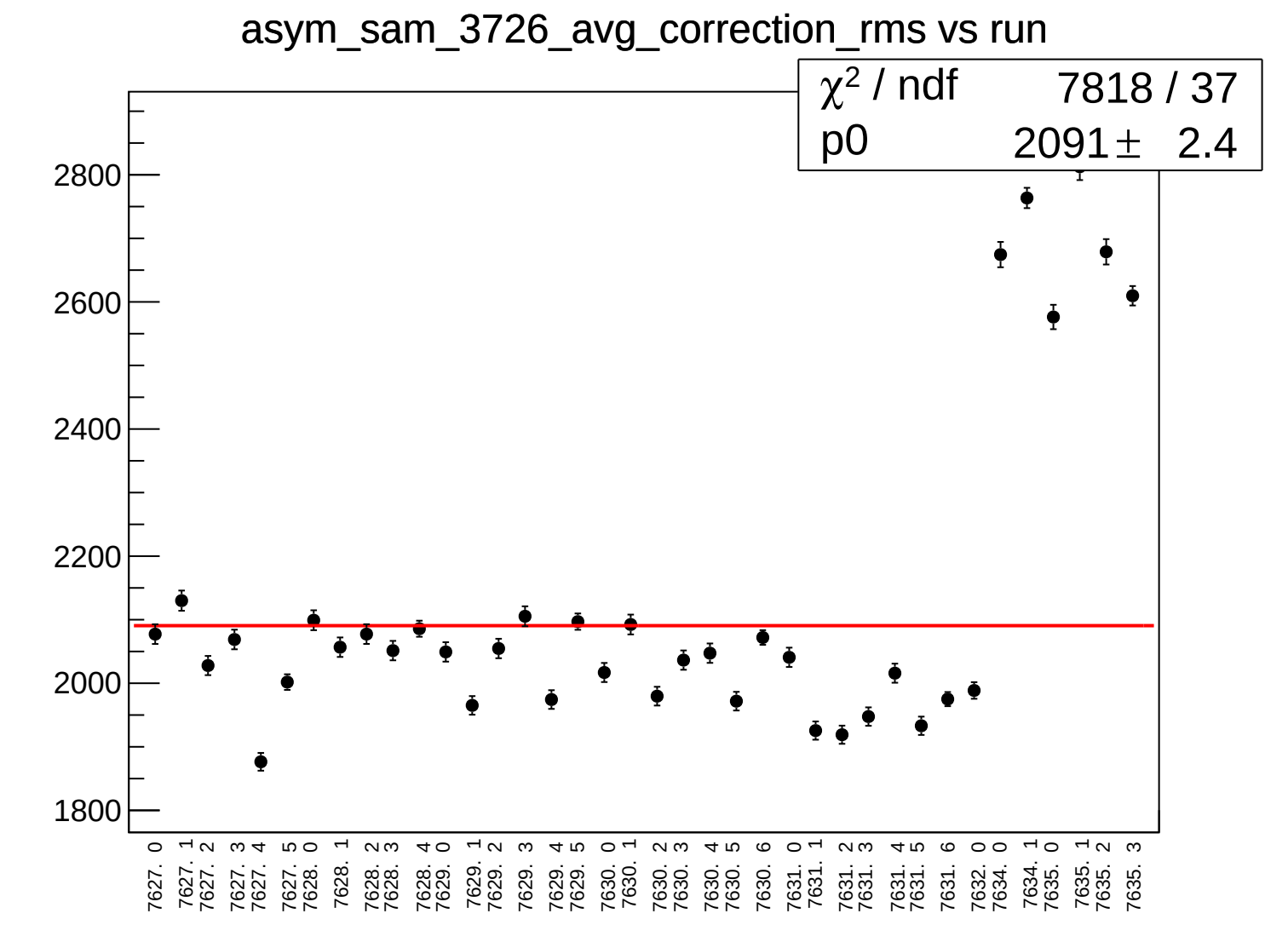

dit_asym_sam_3726_avg_mean vs run
χ² / ndf 31.96 / 37
p0 −43.56 ± 943.7
15000
10000
5000
0
−5000
−10000
−15000
−20000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 4
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −8.87
Std Dev 22
1.5
1
0.5
0
−0.5
−1
−1.5

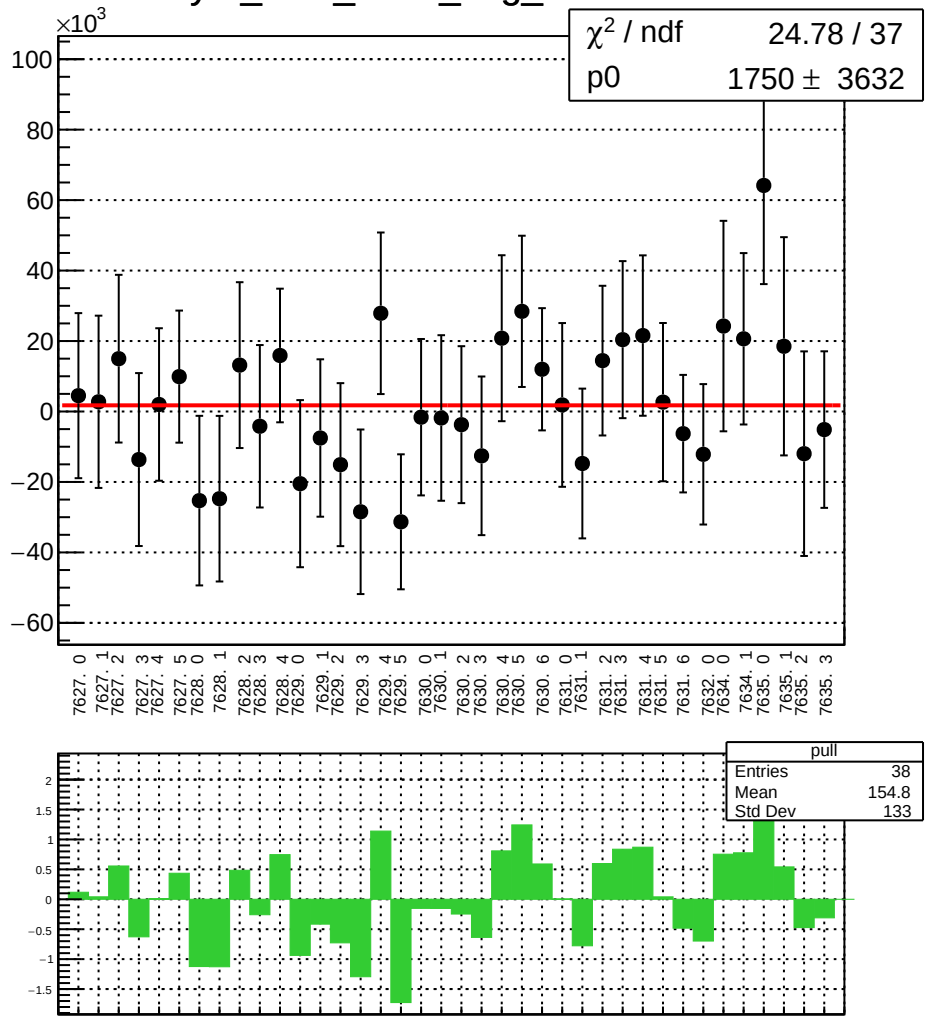

pull1D
Entries 38
Mean −0.05212
Std Dev 0.9156
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

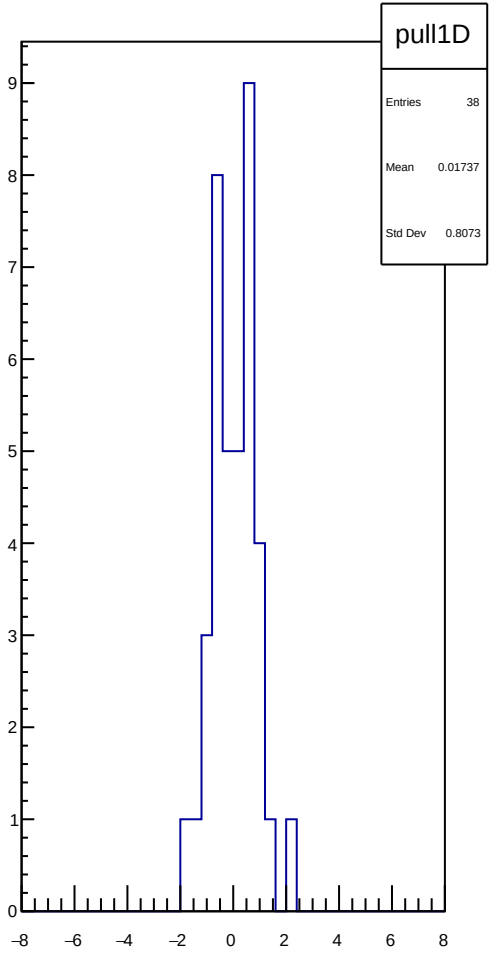

dit_asym_sam_3726_avg_rms vs run
χ² / ndf 1.479e+04 / 37
p0 578.5 ± 0.6673
750
700
650
600
550
500
450
400
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

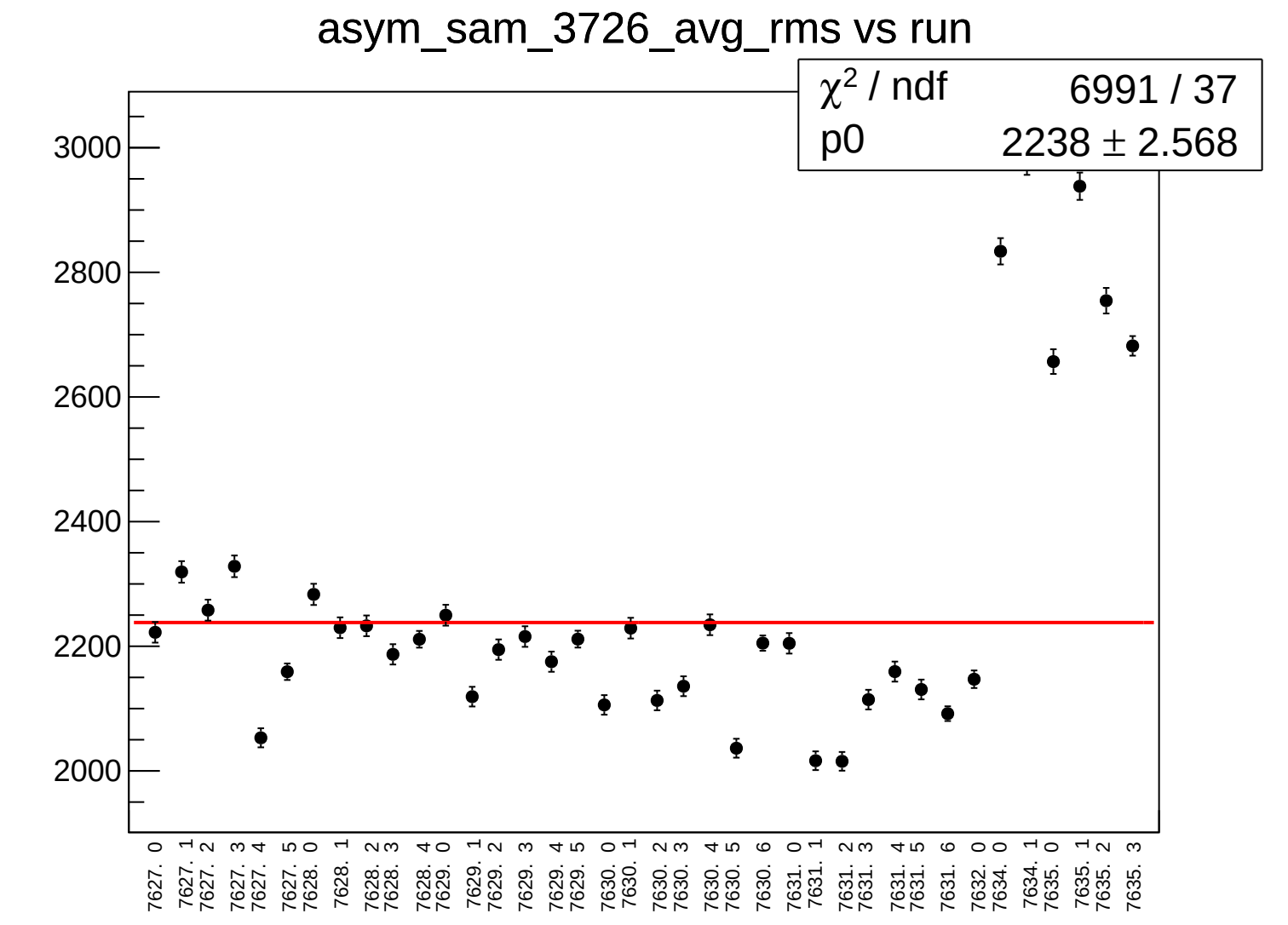

asym_sam_3726_avg_correction_mean vs run
χ² / ndf 25.29 / 37
p0 −2153 ± 3395
60000
40000
20000
0
−20000
−40000
−60000
−80000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 104.1
Std Dev 80.81
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

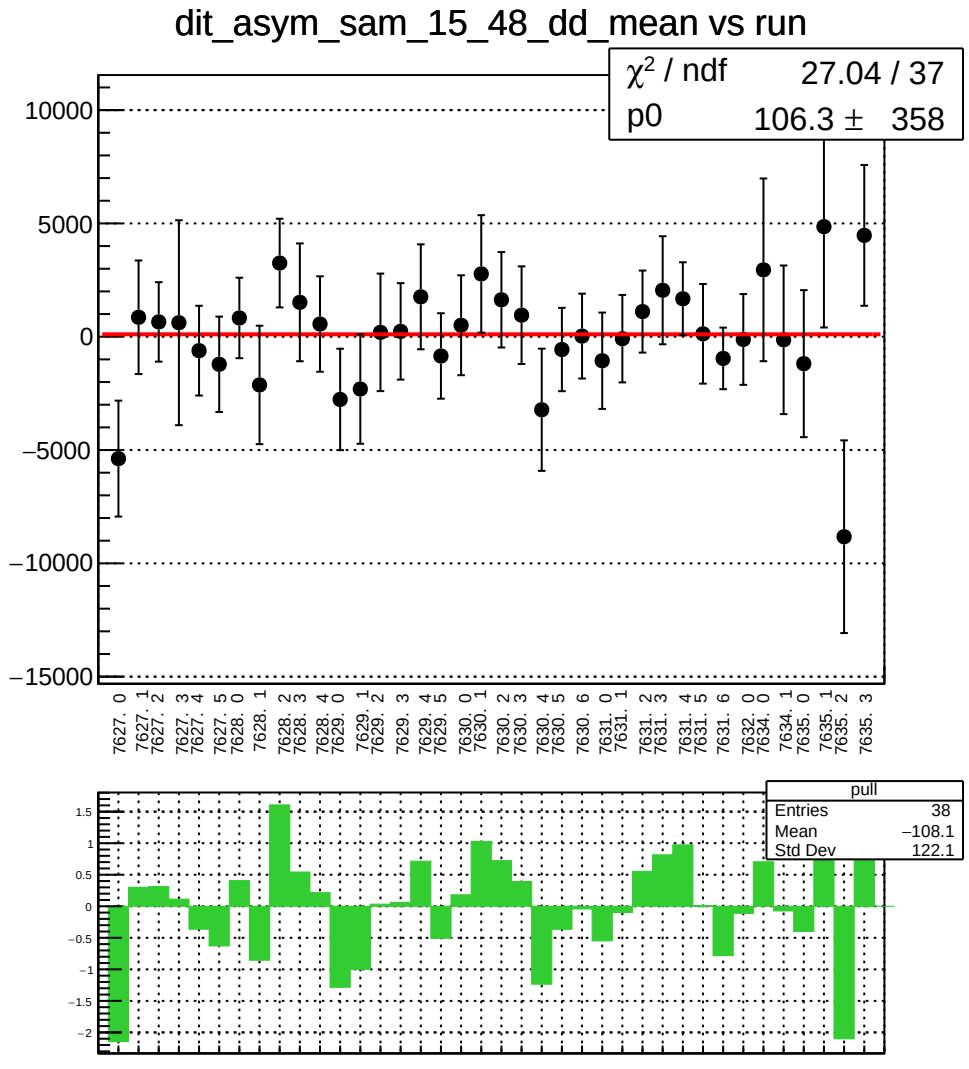

pull1D
Entries 38
Mean −0.02401
Std Dev 0.8155
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

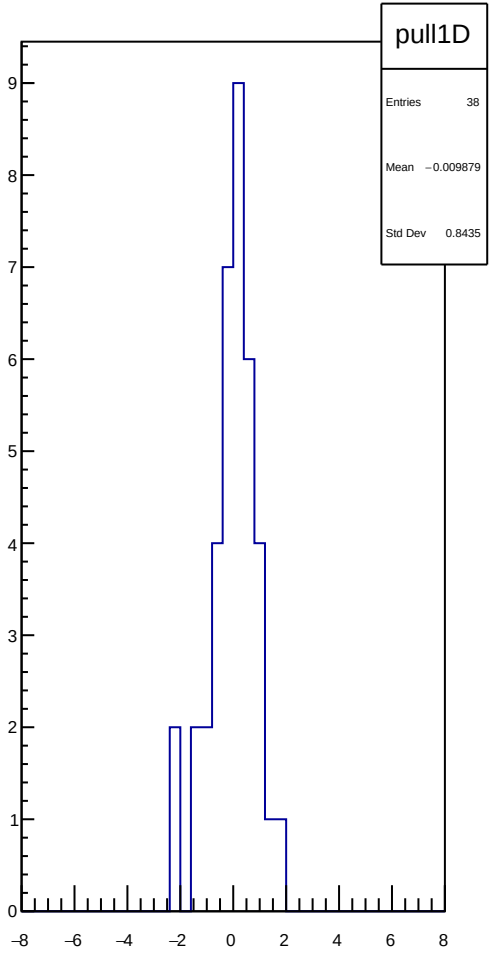

asym_sam_3726_avg_correction_rms vs run
χ² / ndf 7818 / 37
p0 2091 ± 2.4
2800
2600
2400
2200
2000
1800
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

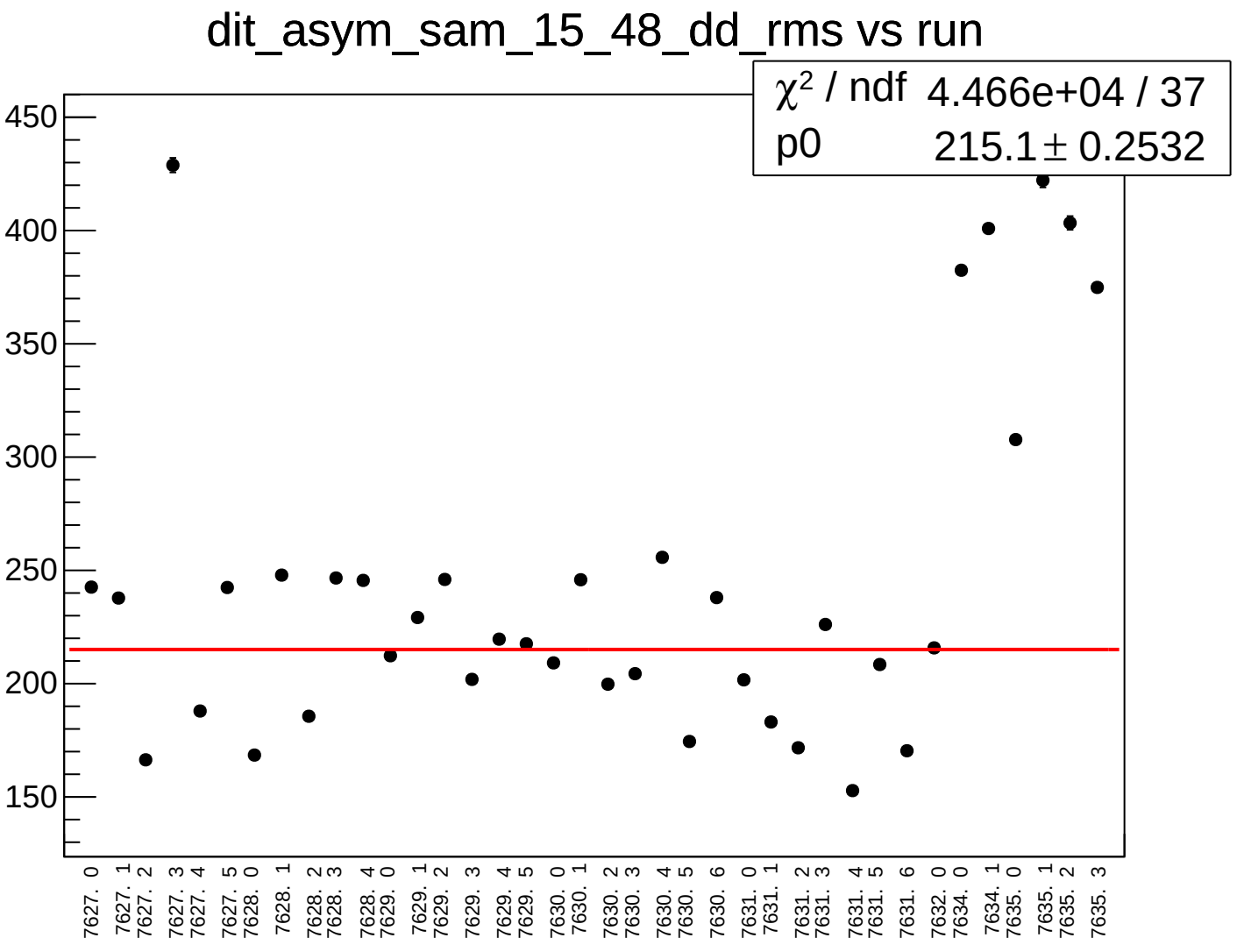

asym_sam_3726_avg_mean vs run
×10^3
χ² / ndf 24.78 / 37
p0 1750 ± 3632
pull
Entries 38
Mean 154.8
Std Dev 133

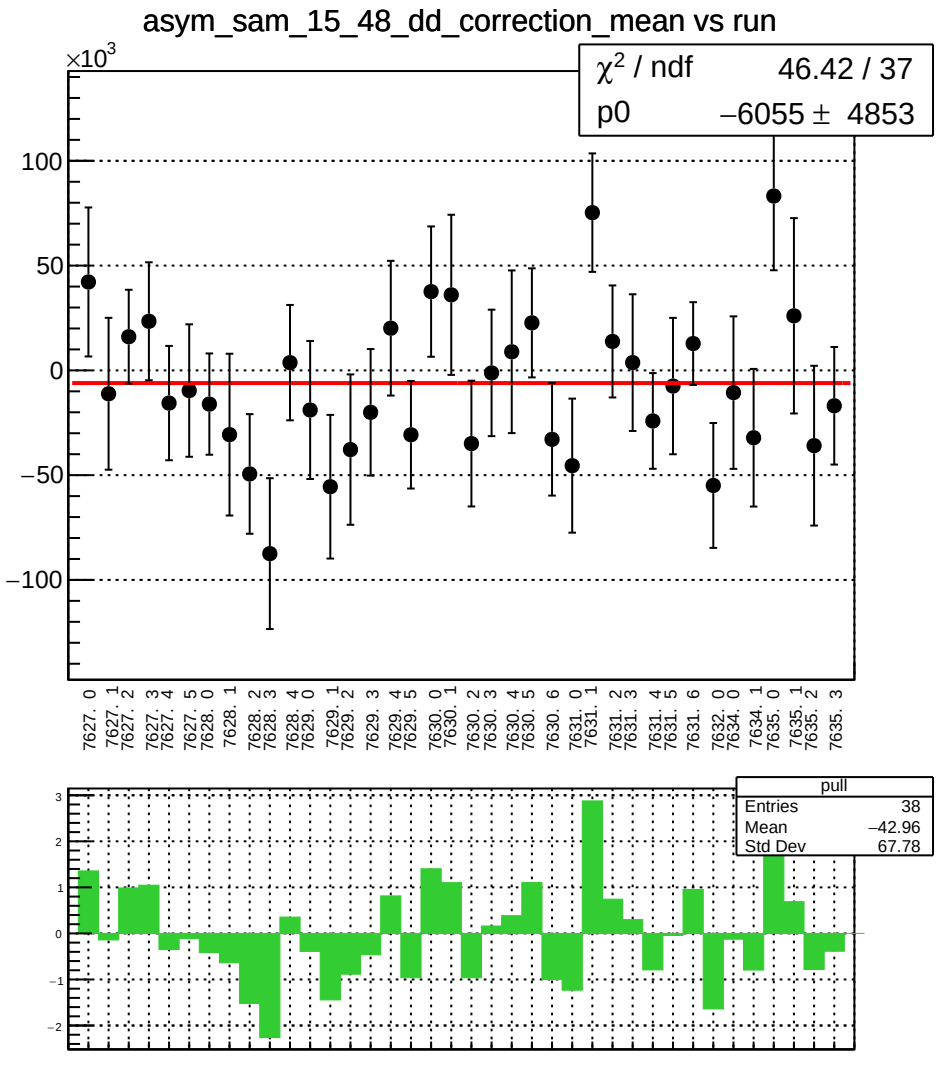

pull1D
Entries 38
Mean 0.01737
Std Dev 0.8073

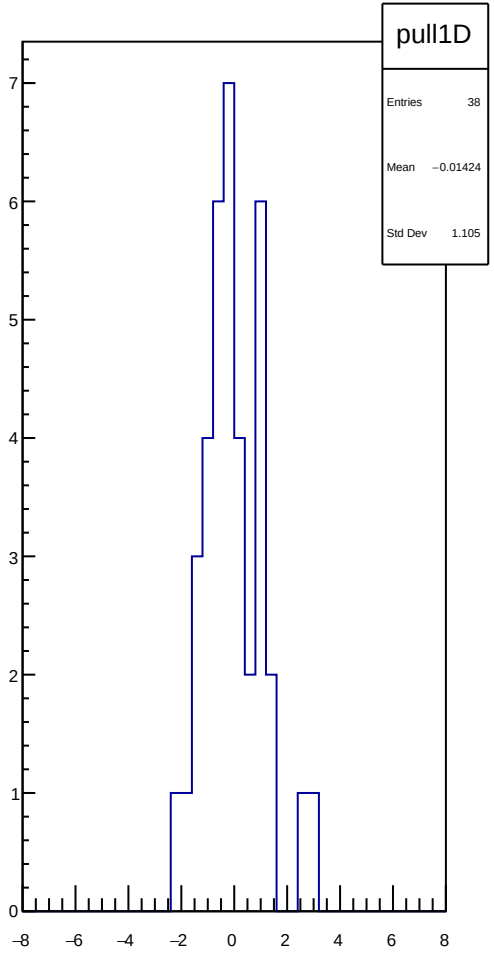

asym_sam_3726_avg_rms vs run
χ² / ndf 6991 / 37
p0 2238 ± 2.568
3000
2800
2600
2400
2200
2000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

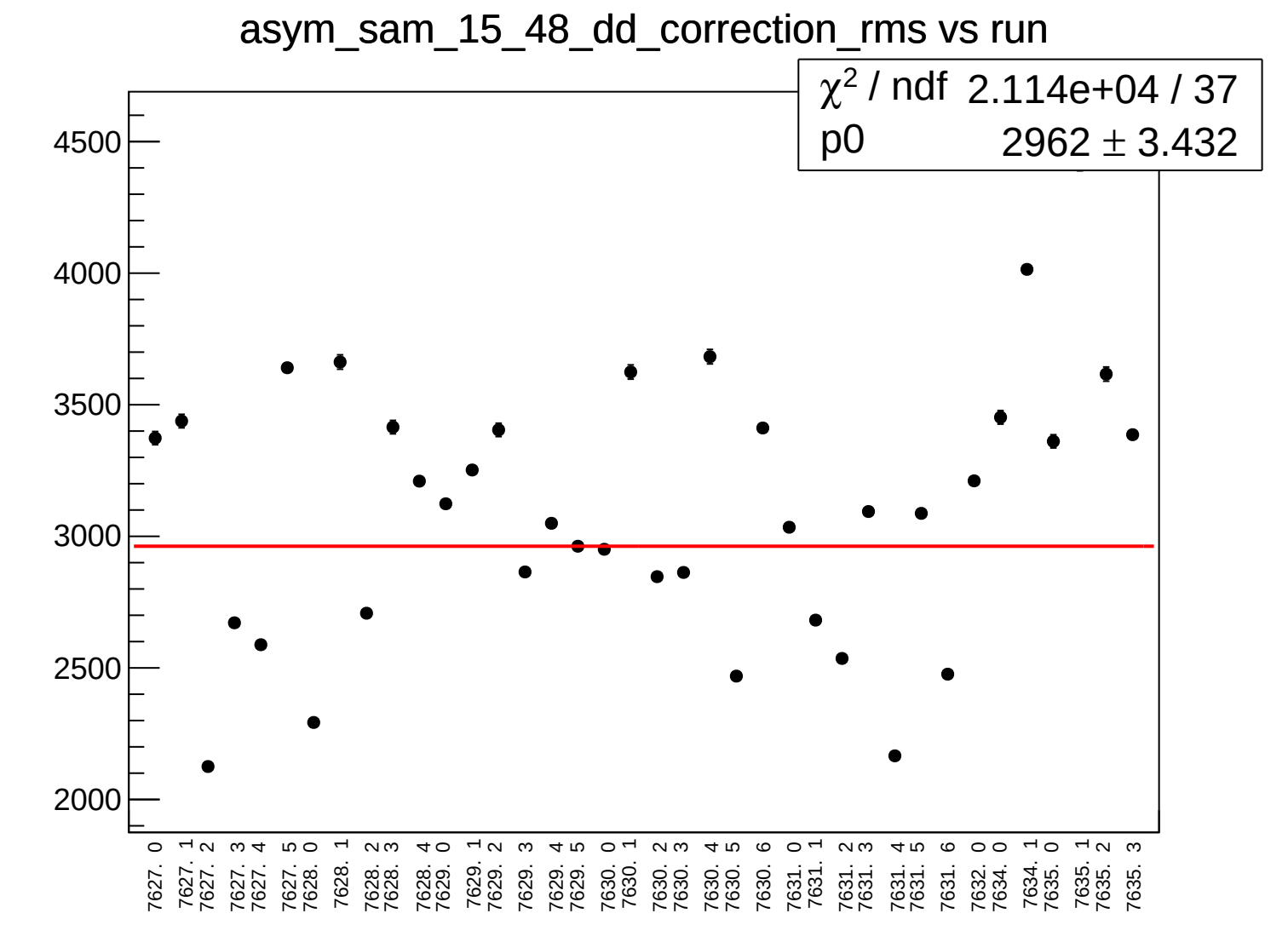

dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 27.04 / 37
p0 106.3 ± 358
10000
5000
0
−5000
−10000
−15000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −108.1
Std Dev 122.1
1.5
1
0.5
0
−0.5
−1
−1.5
−2

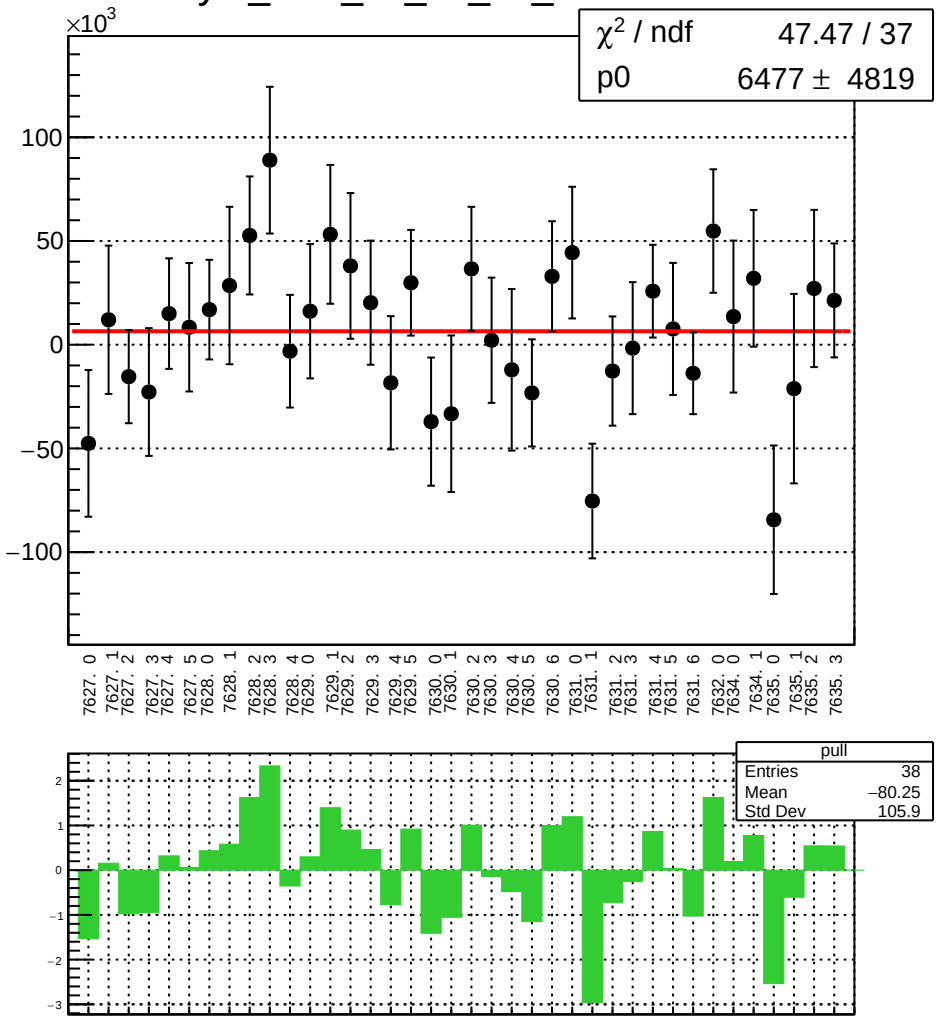

pull1D
Entries 38
Mean −0.009879
Std Dev 0.8435
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

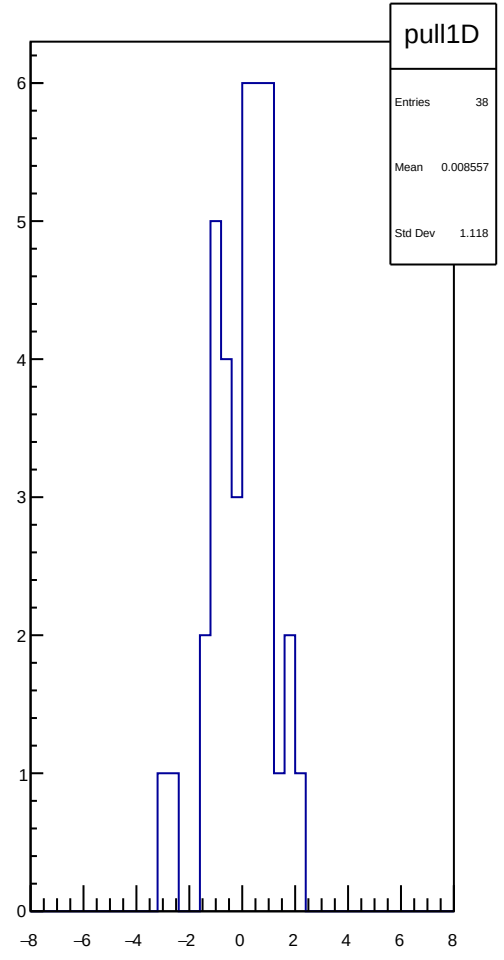

dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 4.466e+04 / 37
p0 215.1 ± 0.2532
450
400
350
300
250
200
150
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

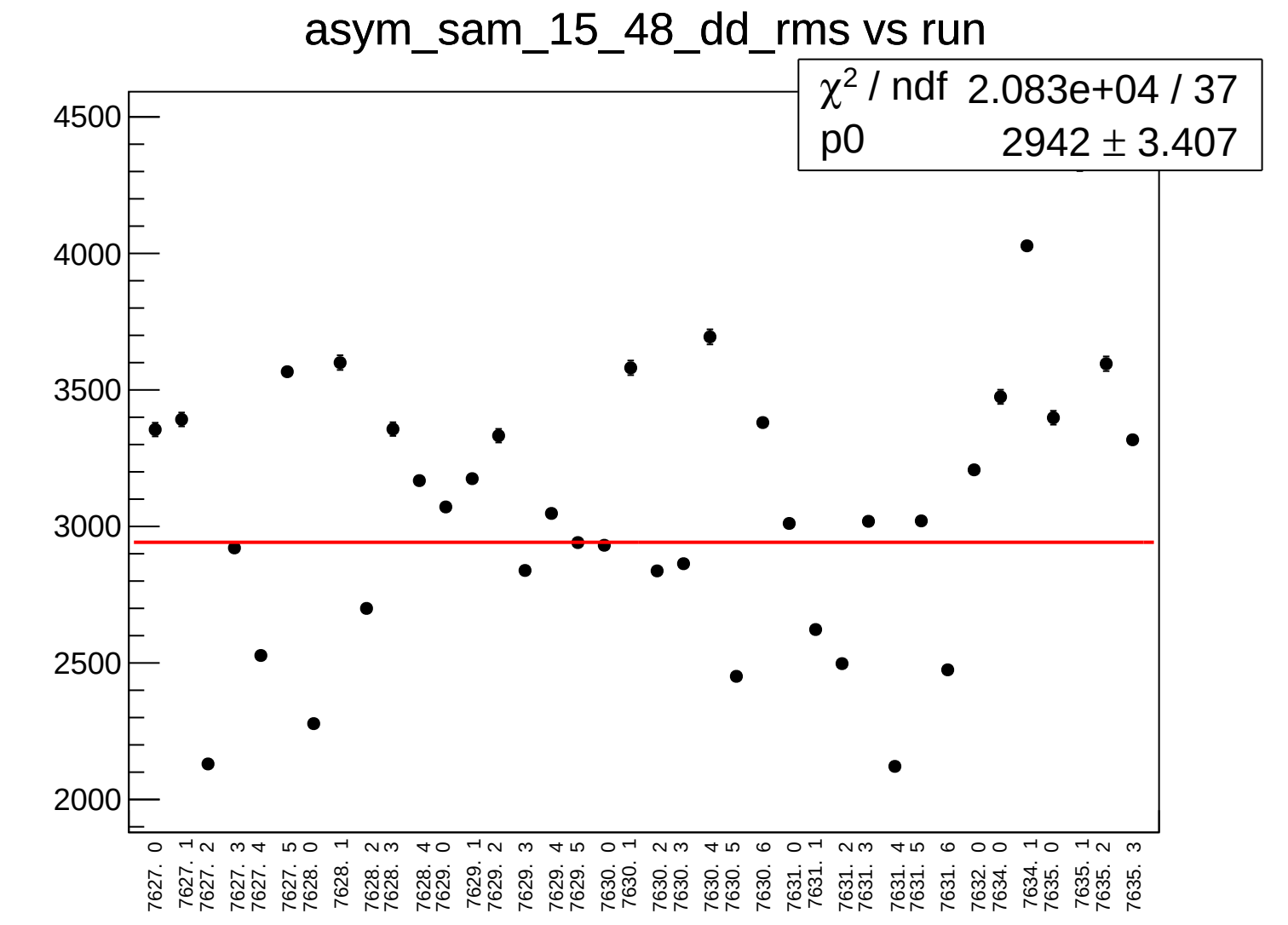

asym_sam_15_48_dd_correction_mean vs run
×10^3
χ² / ndf 46.42 / 37
p0 −6055 ± 4853
100
50
0
−50
−100
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −42.96
Std Dev 67.78
3
2
1
0
−1
−2

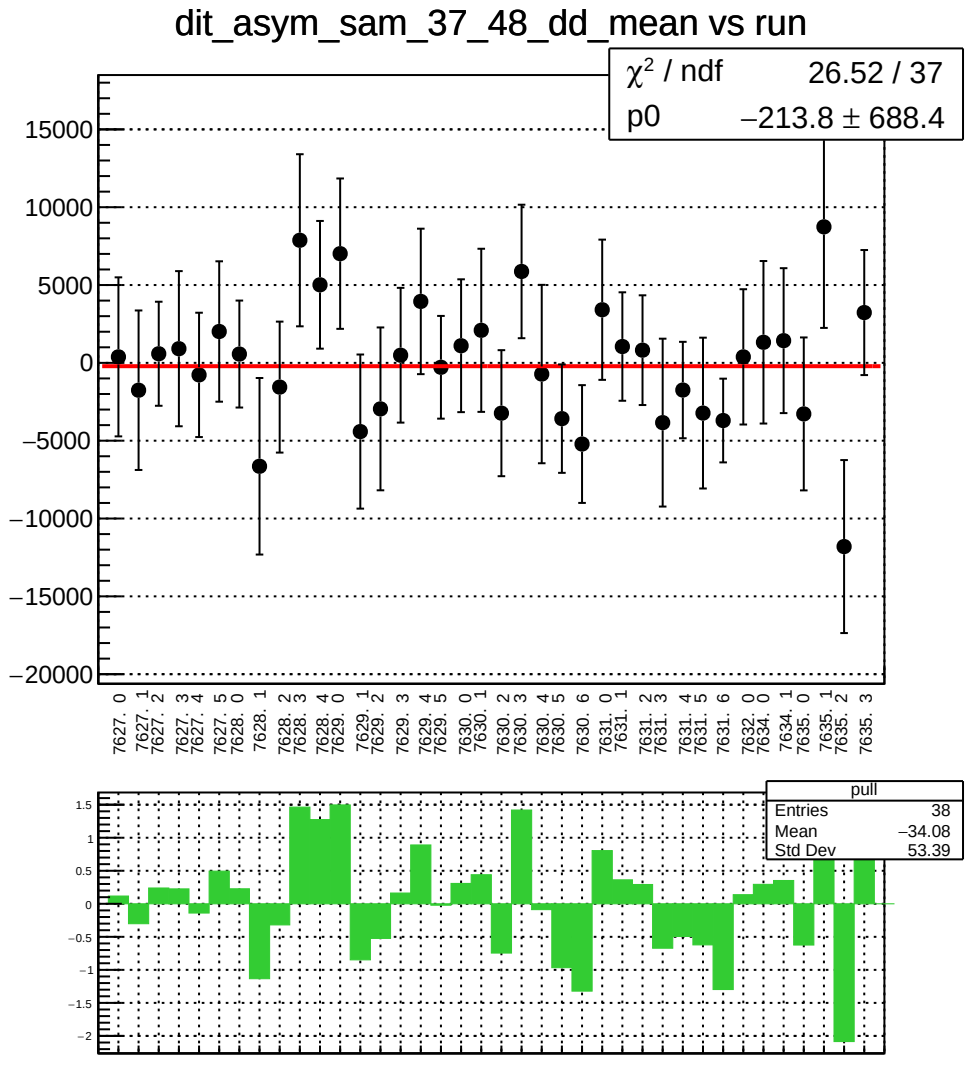

pull1D
Entries 38
Mean −0.01424
Std Dev 1.105
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

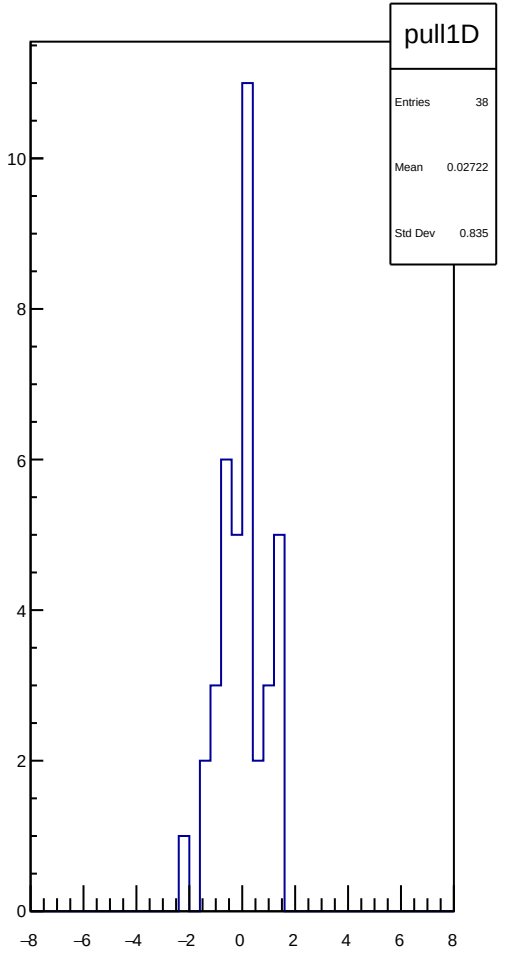

asym_sam_15_48_dd_correction_rms vs run
χ² / ndf 2.114e+04 / 37
p0 2962 ± 3.432
4500
4000
3500
3000
2500
2000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

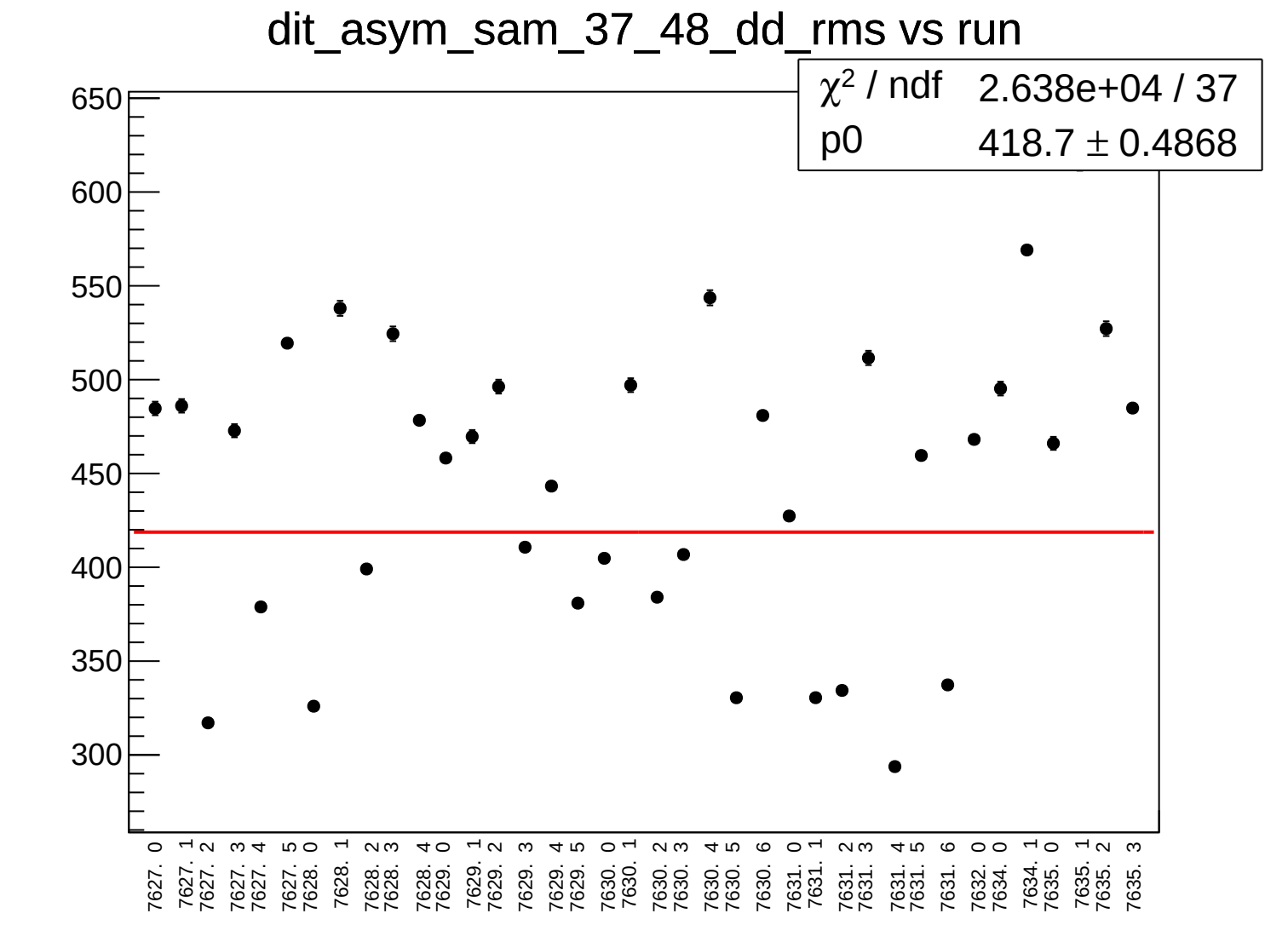

asym_sam_15_48_dd_mean vs run
×10^3
χ^2 / ndf 47.47 / 37
p0 6477 ± 4819
100
50
0
−50
−100
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −80.25
Std Dev 105.9
2
1
0
−1
−2
−3

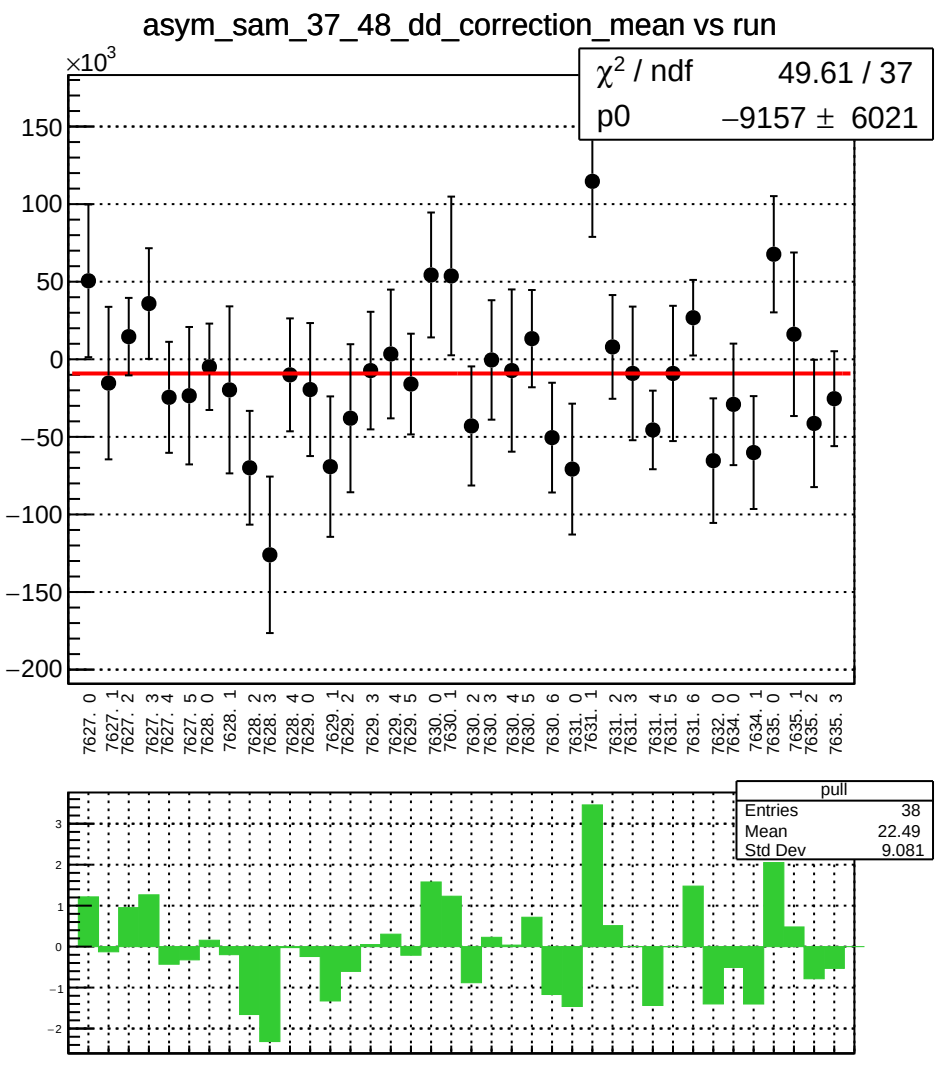

pull1D
Entries 38
Mean 0.008557
Std Dev 1.118
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

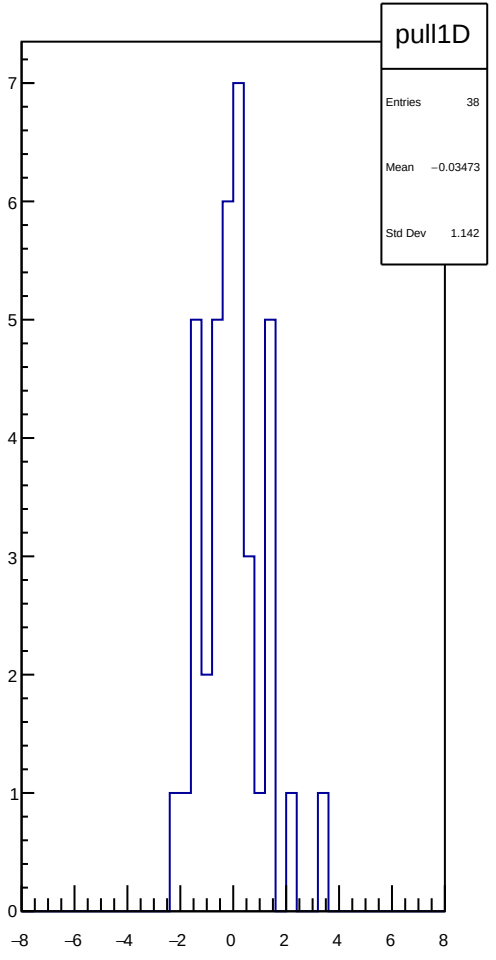

asym_sam_15_48_dd_rms vs run
χ^2 / ndf 2.083e+04 / 37
p0 2942 ± 3.407
4500
4000
3500
3000
2500
2000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

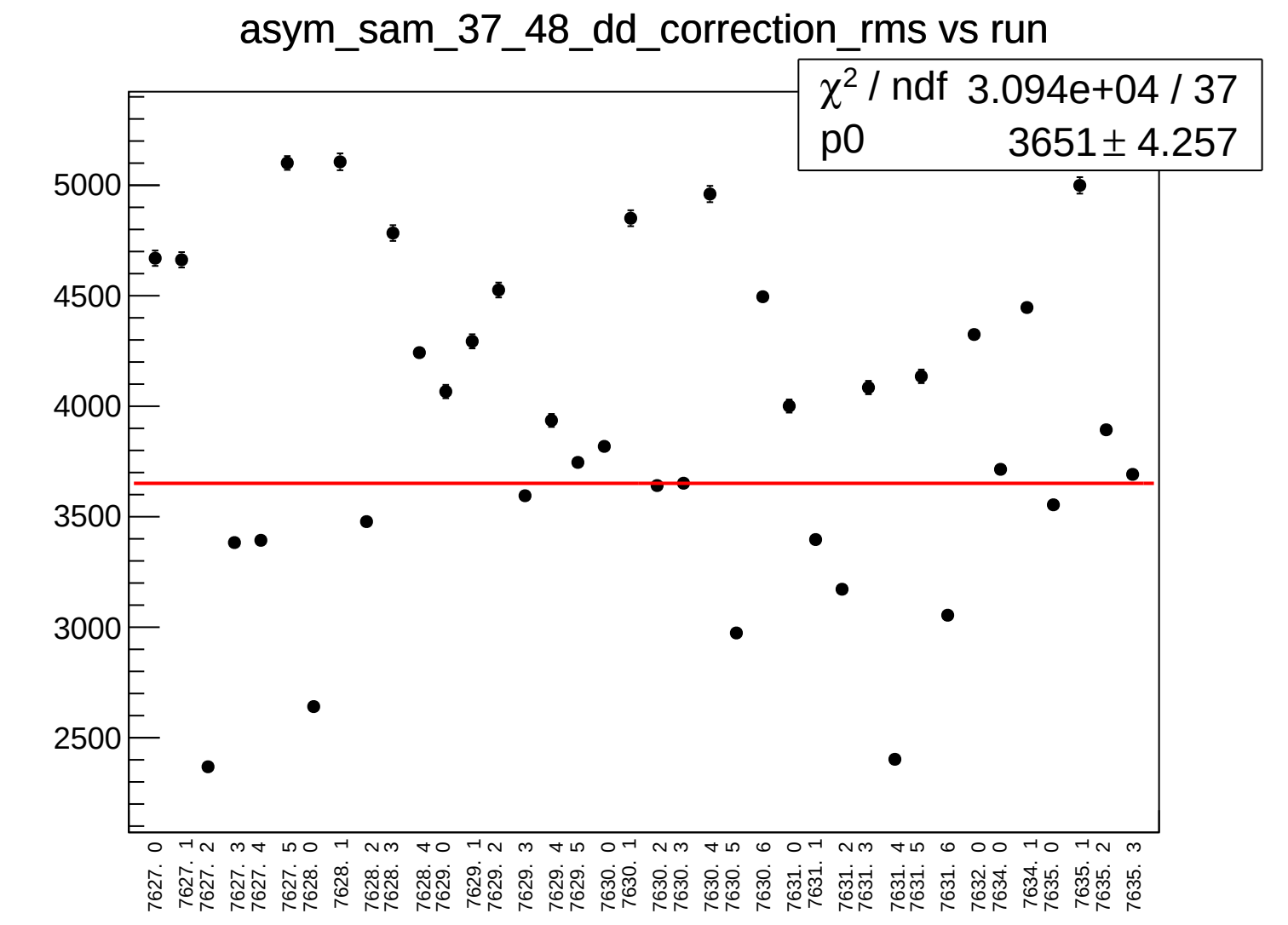

dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 26.52 / 37
p0 −213.8 ± 688.4
15000
10000
5000
0
−5000
−10000
−15000
−20000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 4
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −34.08
Std Dev 53.39
1.5
1
0.5
0
−0.5
−1
−1.5
−2

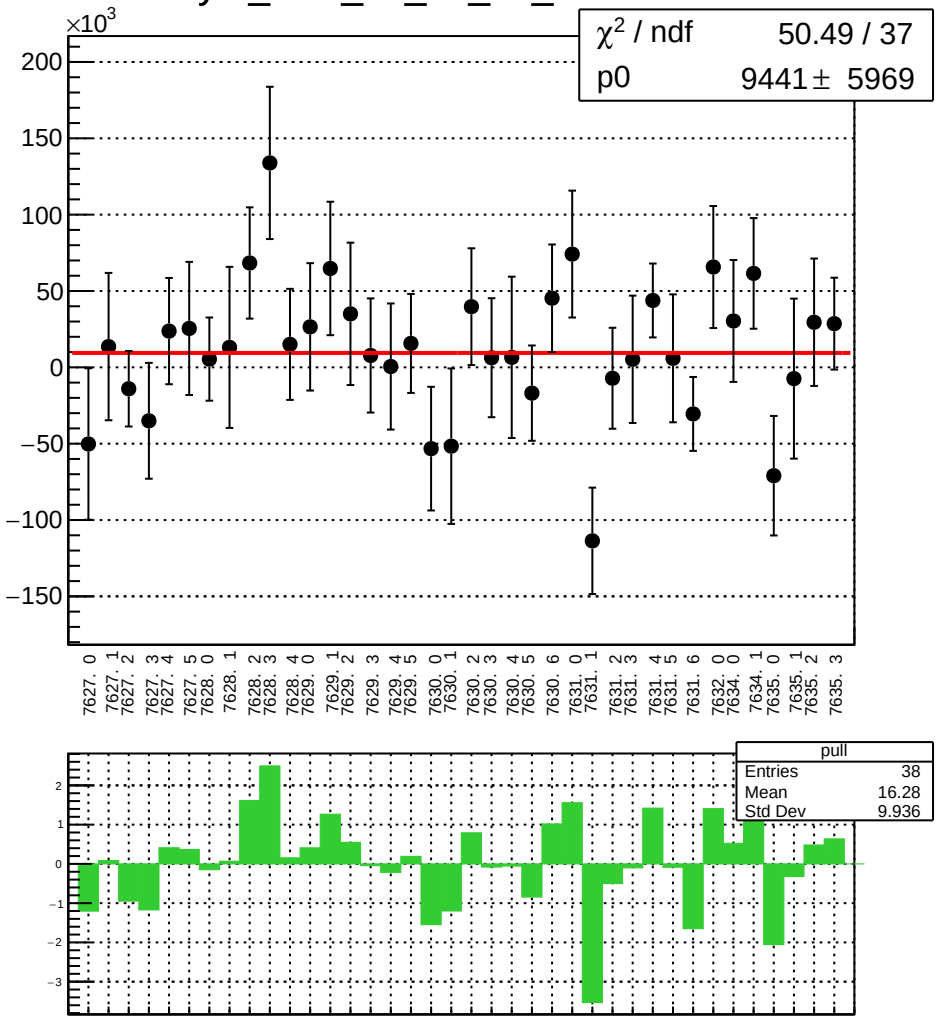

pull1D
Entries 38
Mean 0.02722
Std Dev 0.835
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

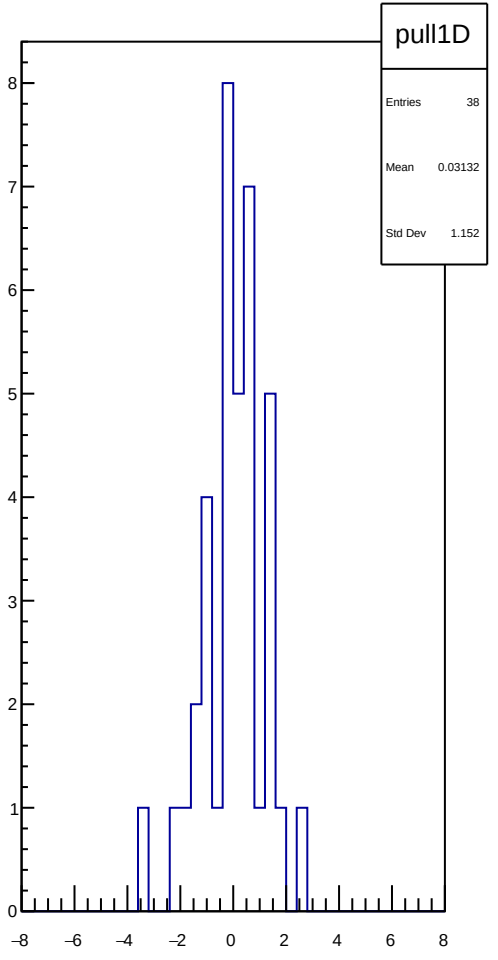

dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 2.638e+04 / 37
p0 418.7 ± 0.4868
650
600
550
500
450
400
350
300
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

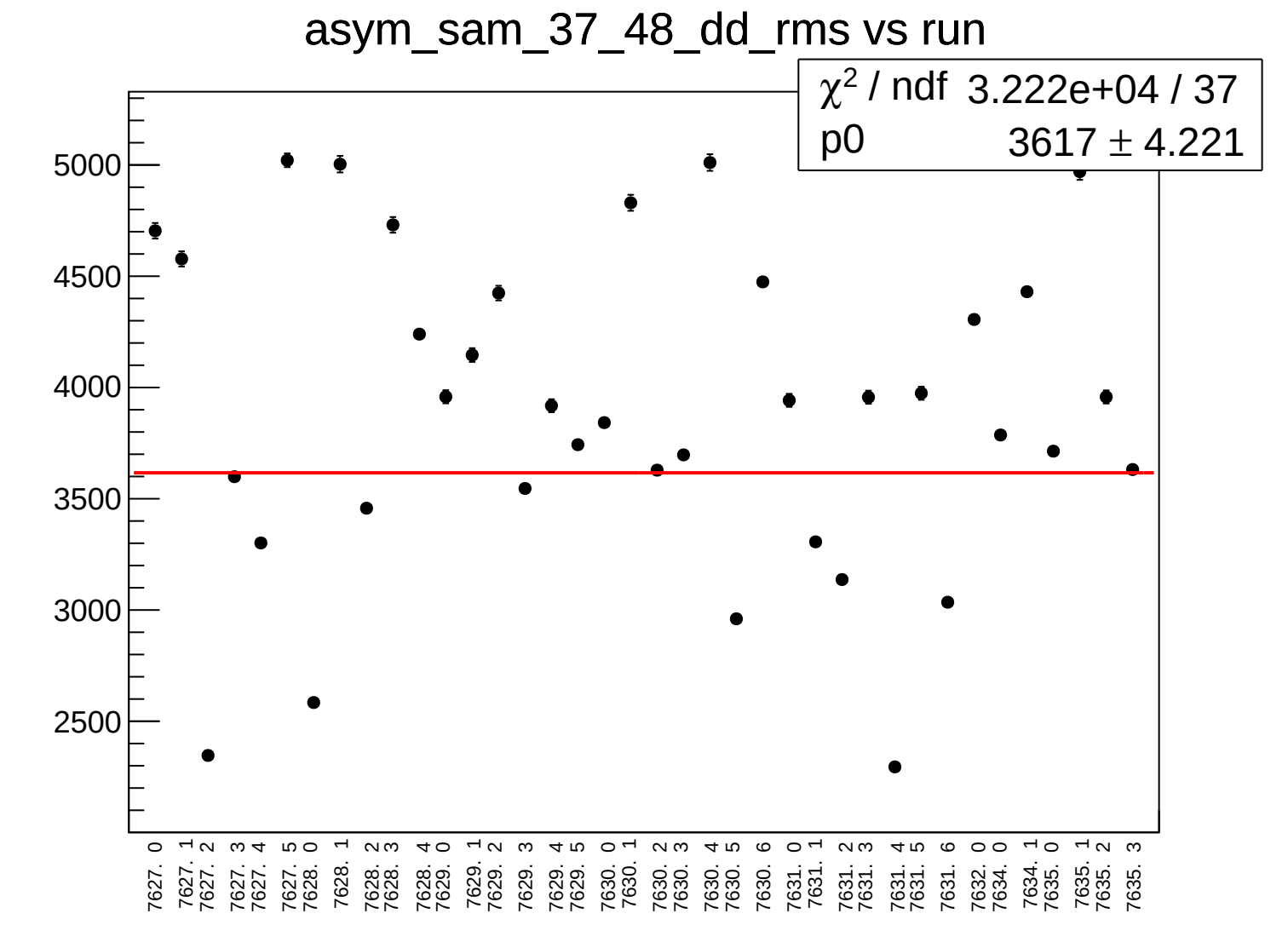

asym_sam_37_48_dd_correction_mean vs run
×10^3
χ² / ndf 49.61 / 37
p0 −9157 ± 6021
150
100
50
0
−50
−100
−150
−200
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 22.49
Std Dev 9.081
3
2
1
0
−1
−2

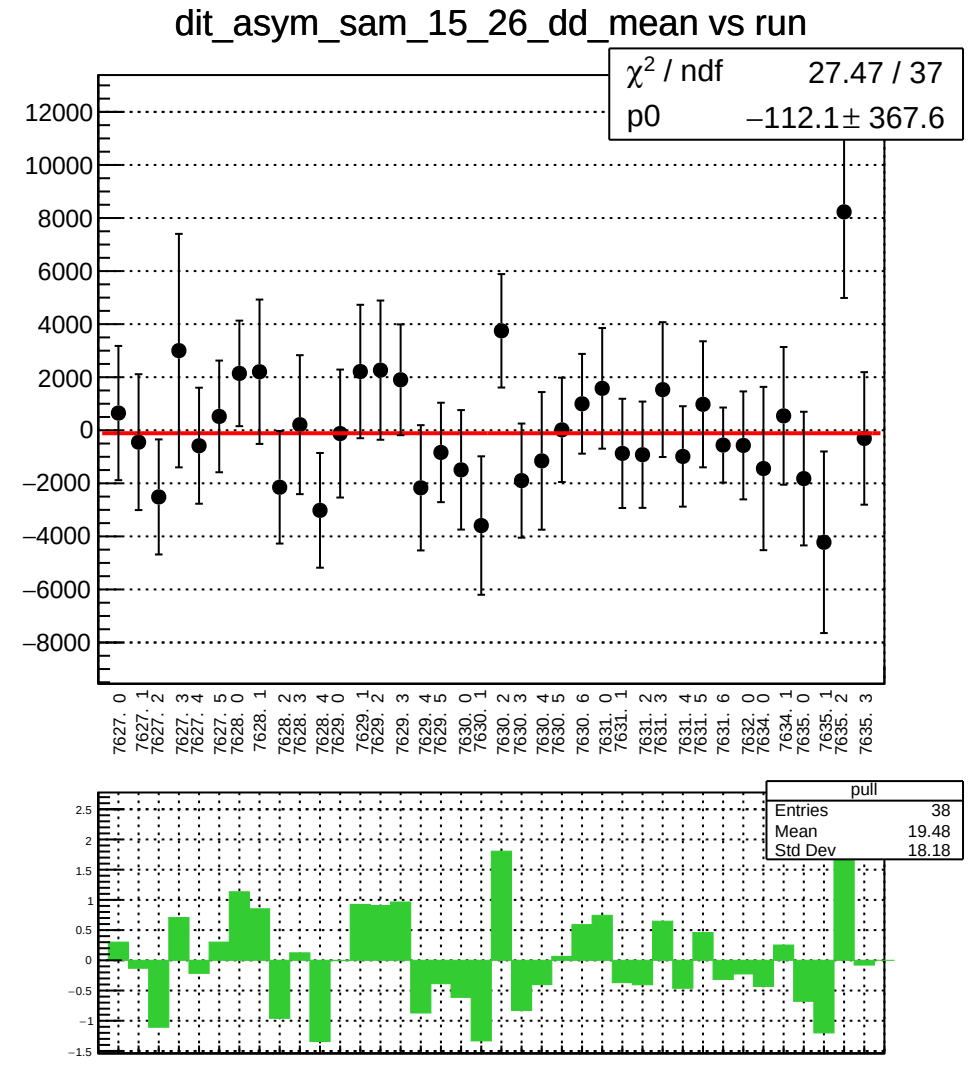

pull1D
Entries 38
Mean −0.03473
Std Dev 1.142
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

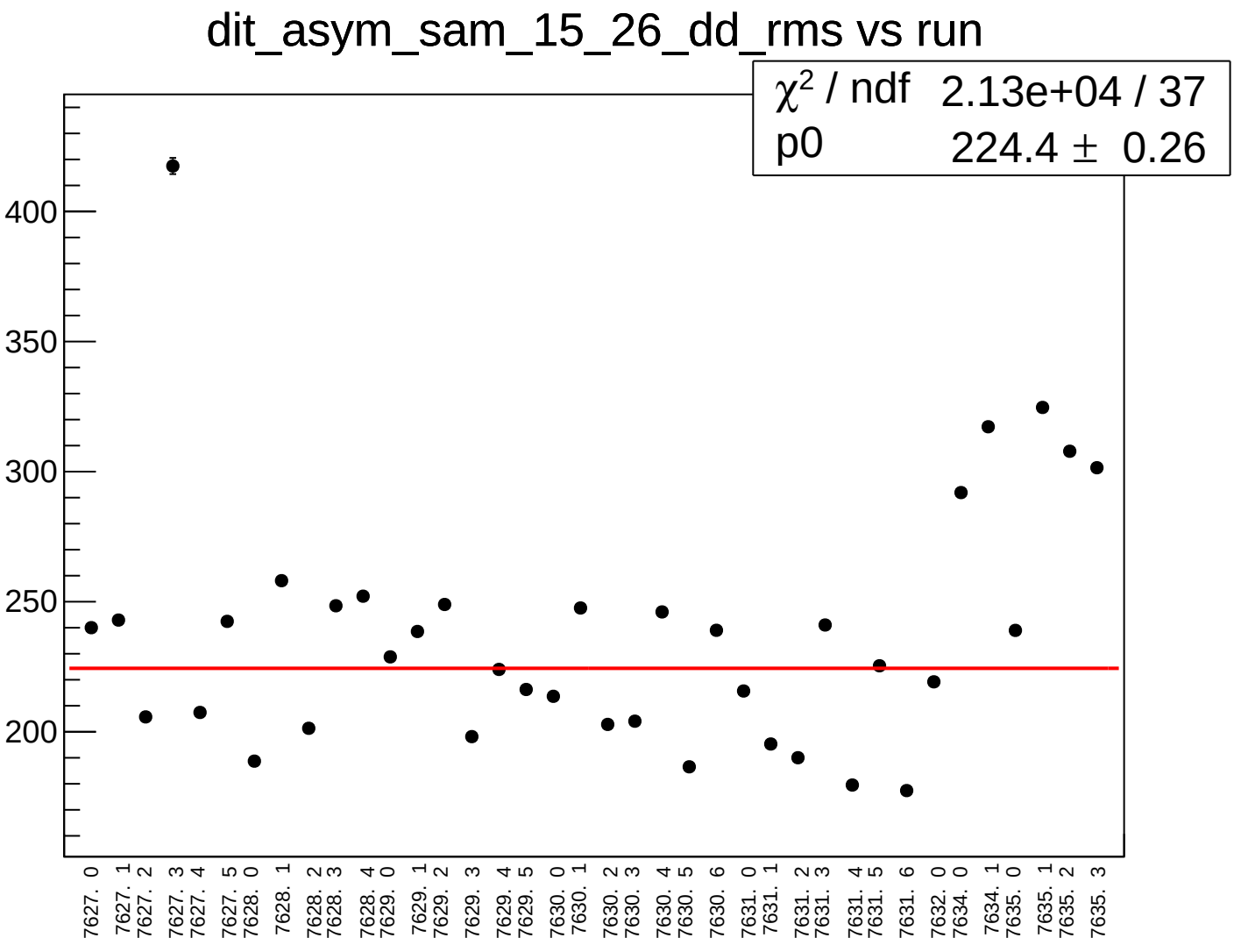

asym_sam_37_48_dd_correction_rms vs run
χ² / ndf 3.094e+04 / 37
p0 3651 ± 4.257
5000
4500
4000
3500
3000
2500
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

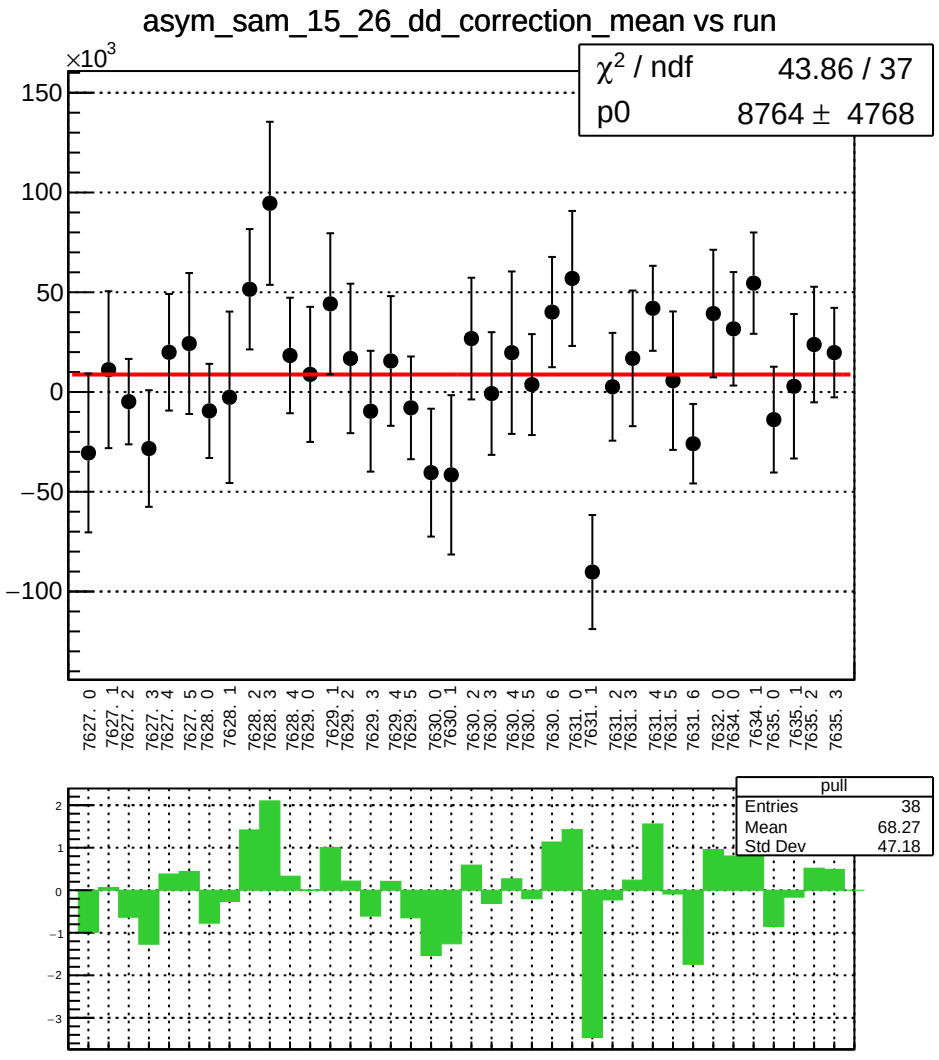

asym_sam_37_48_dd_mean vs run
×10^3
χ² / ndf 50.49 / 37
p0 9441 ± 5969
200
150
100
50
0
−50
−100
−150
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 16.28
Std Dev 9.936
2
1
0
−1
−2
−3

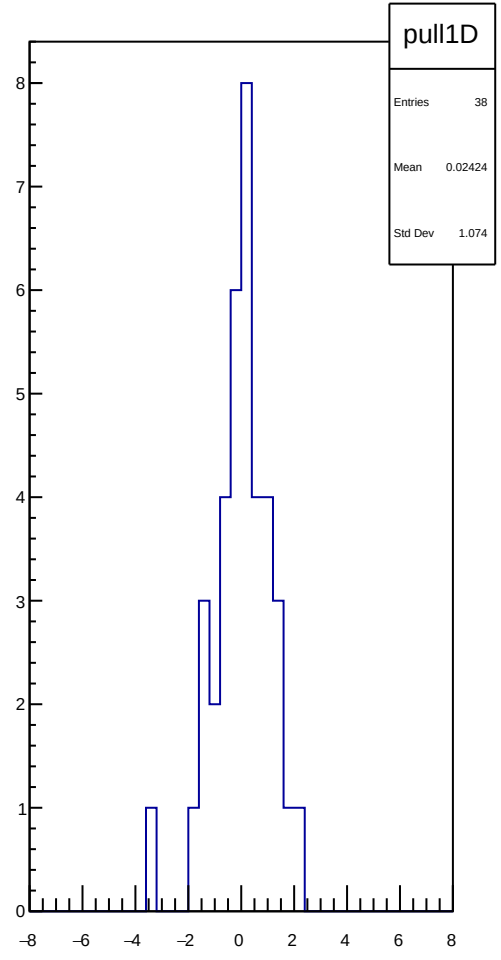

pull1D
Entries 38
Mean 0.03132
Std Dev 1.152
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

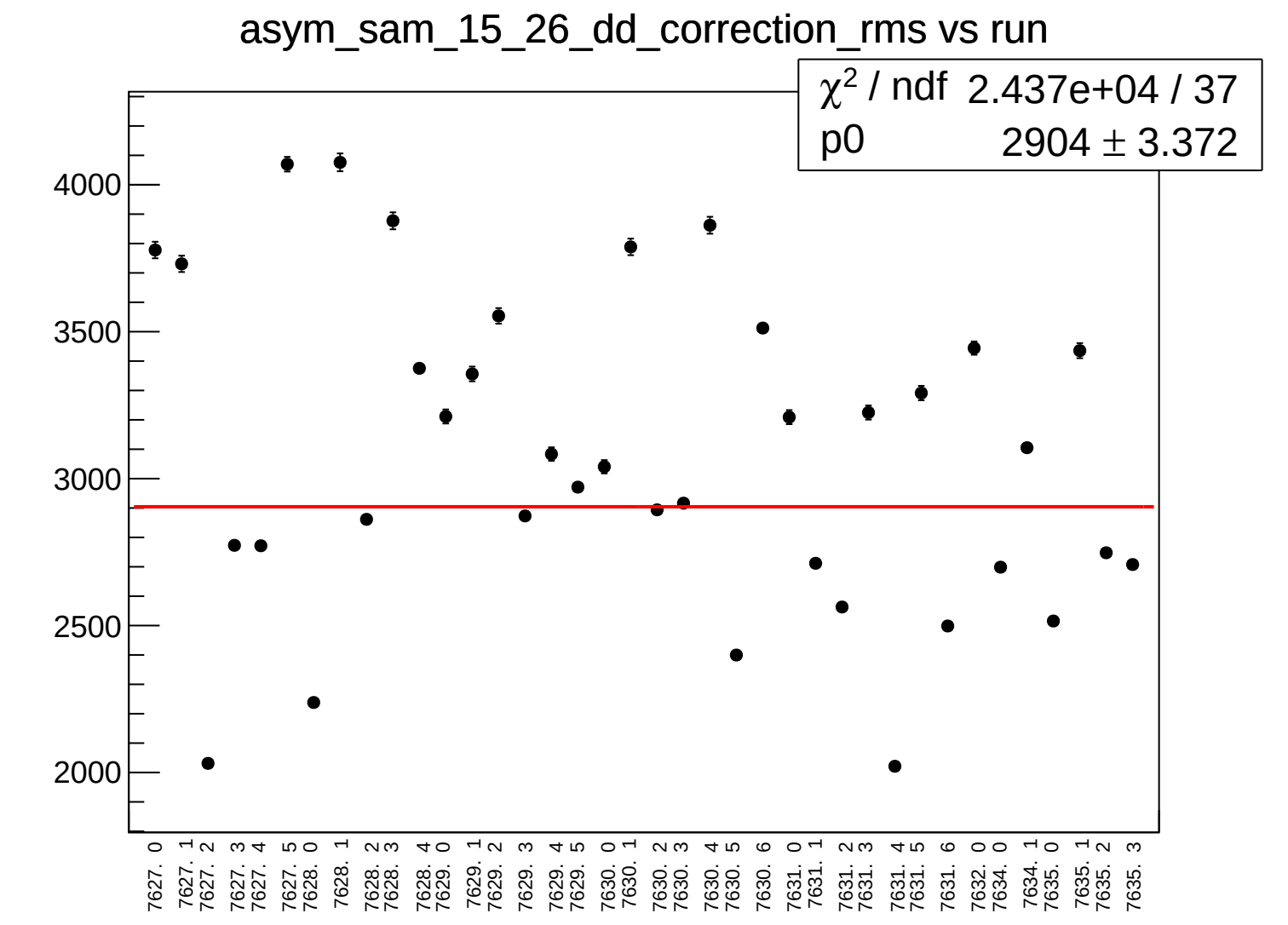

asym_sam_37_48_dd_rms vs run
χ² / ndf 3.222e+04 / 37
p0 3617 ± 4.221
5000
4500
4000
3500
3000
2500
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

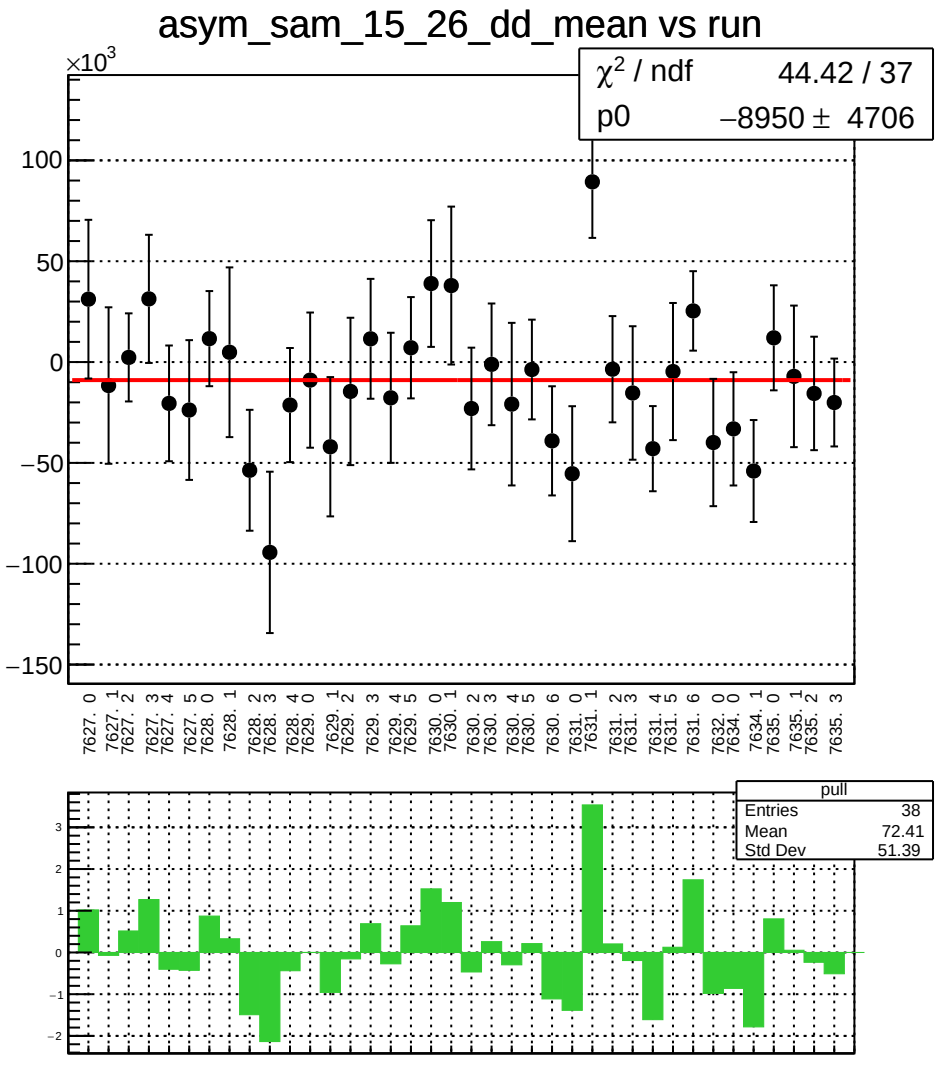

dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 27.47 / 37
p0 −112.1± 367.6
12000
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 4
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 19.48
Std Dev 18.18
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 38
Mean 0.02603
Std Dev 0.8499
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

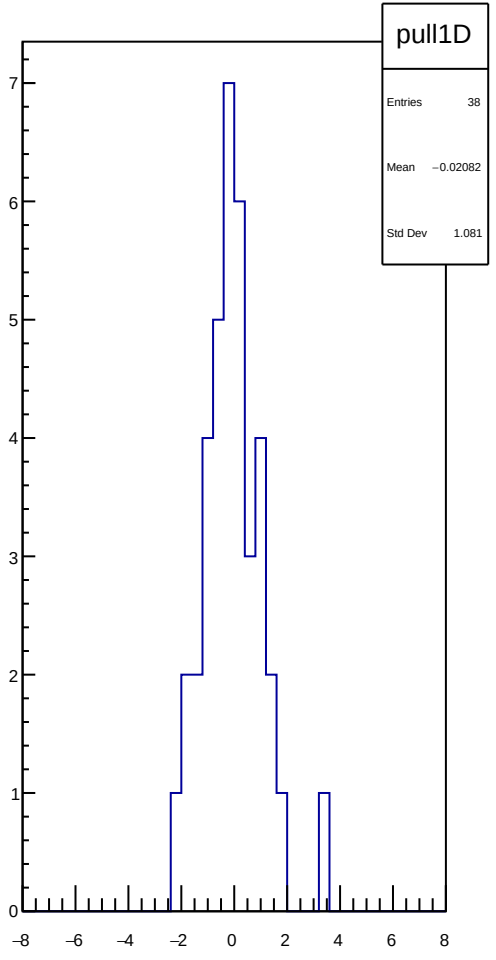

dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 2.13e+04 / 37
p0 224.4 ± 0.26
400
350
300
250
200
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

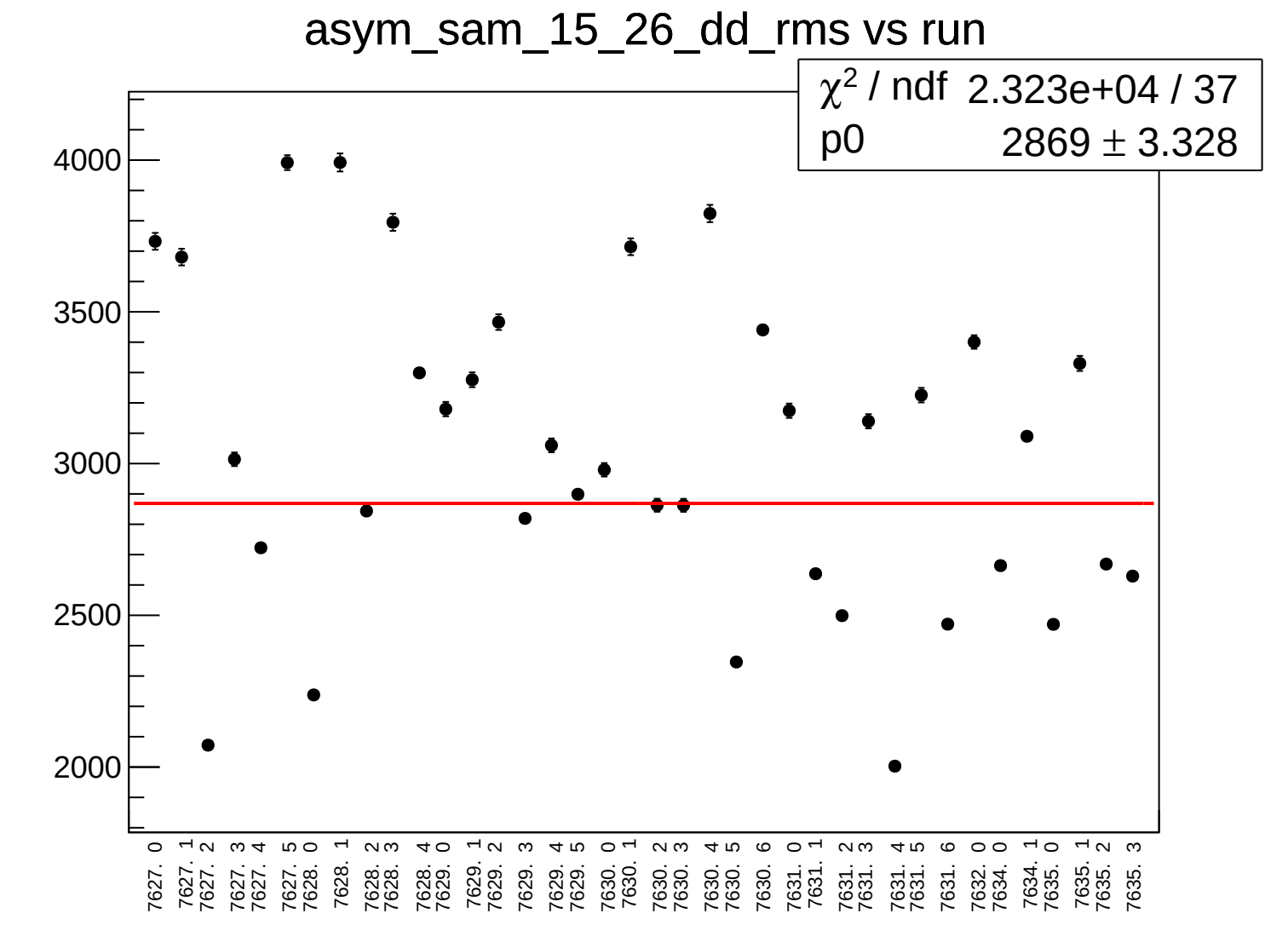

asym_sam_15_26_dd_correction_mean vs run
×10^3
χ^2 / ndf 43.86 / 37
p0 8764 ± 4768
150
100
50
0
−50
−100
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 68.27
Std Dev 47.18
2
1
0
−1
−2
−3

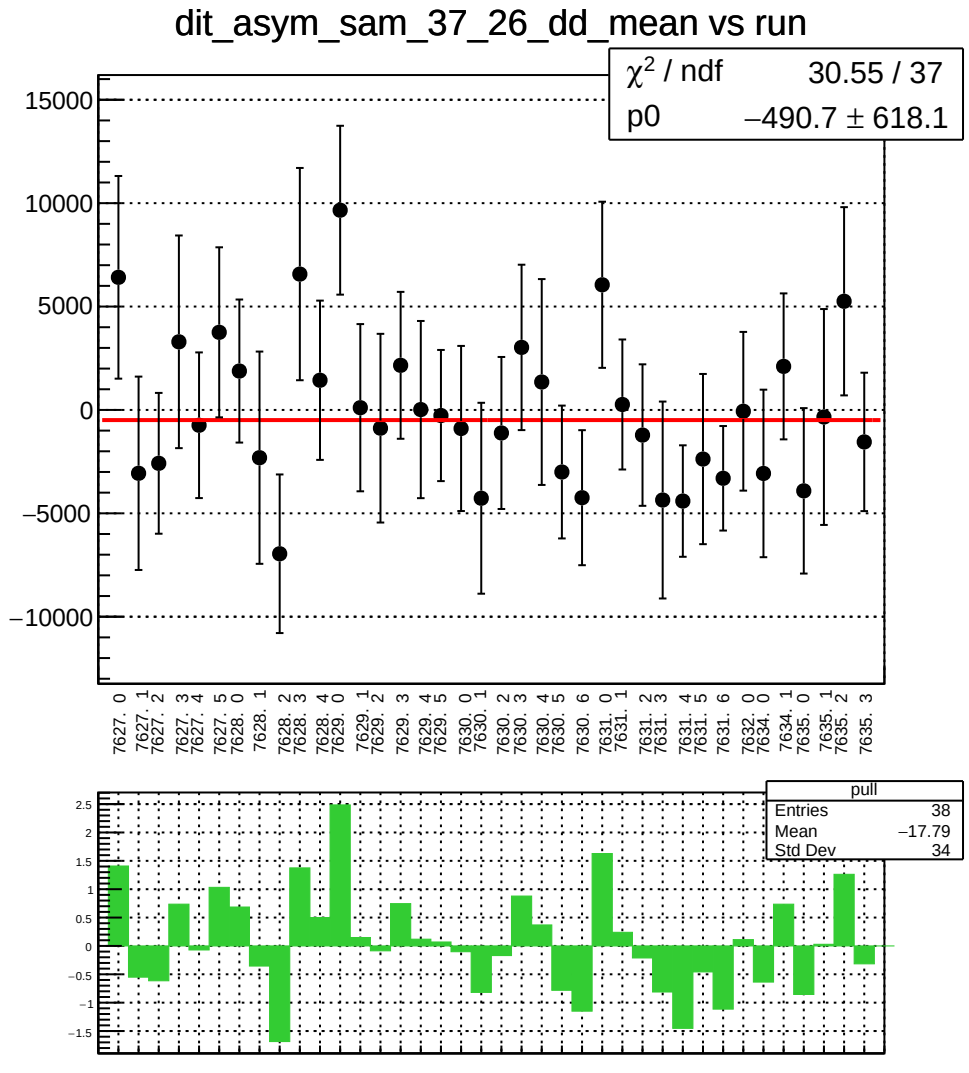

pull1D
Entries 38
Mean 0.02424
Std Dev 1.074
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

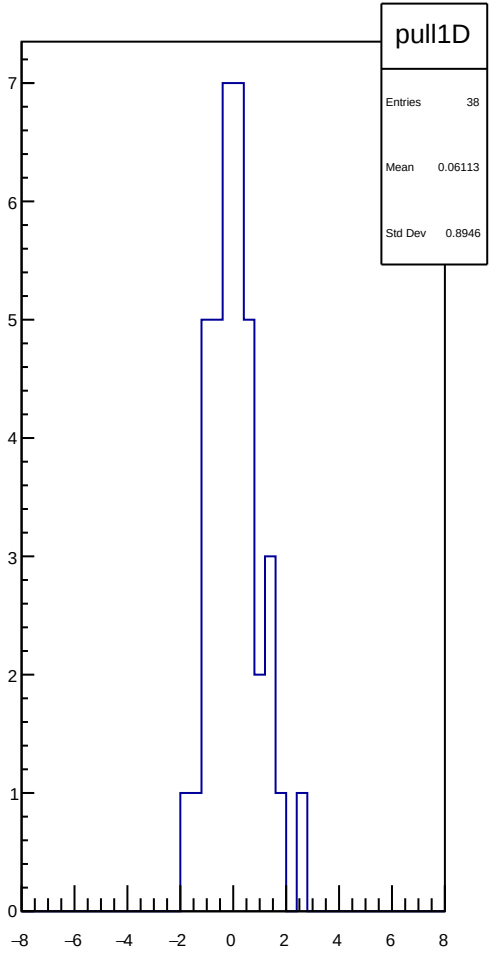

asym_sam_15_26_dd_correction_rms vs run
χ² / ndf 2.437e+04 / 37
p0 2904 ± 3.372
4000
3500
3000
2500
2000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

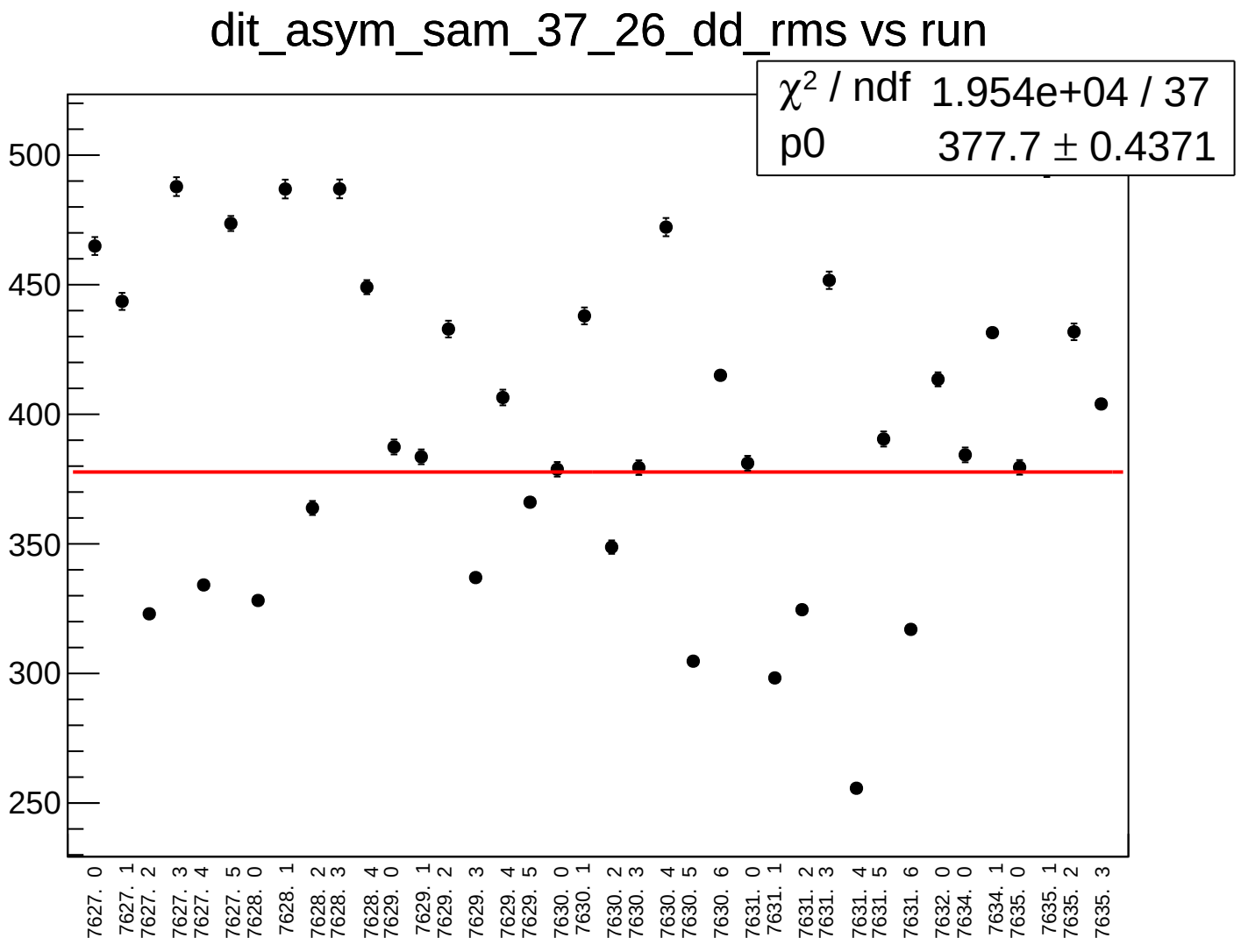

asym_sam_15_26_dd_mean vs run
×10^3
χ² / ndf 44.42 / 37
p0 −8950 ± 4706
100
50
0
−50
−100
−150
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 72.41
Std Dev 51.39
3
2
1
0
−1
−2

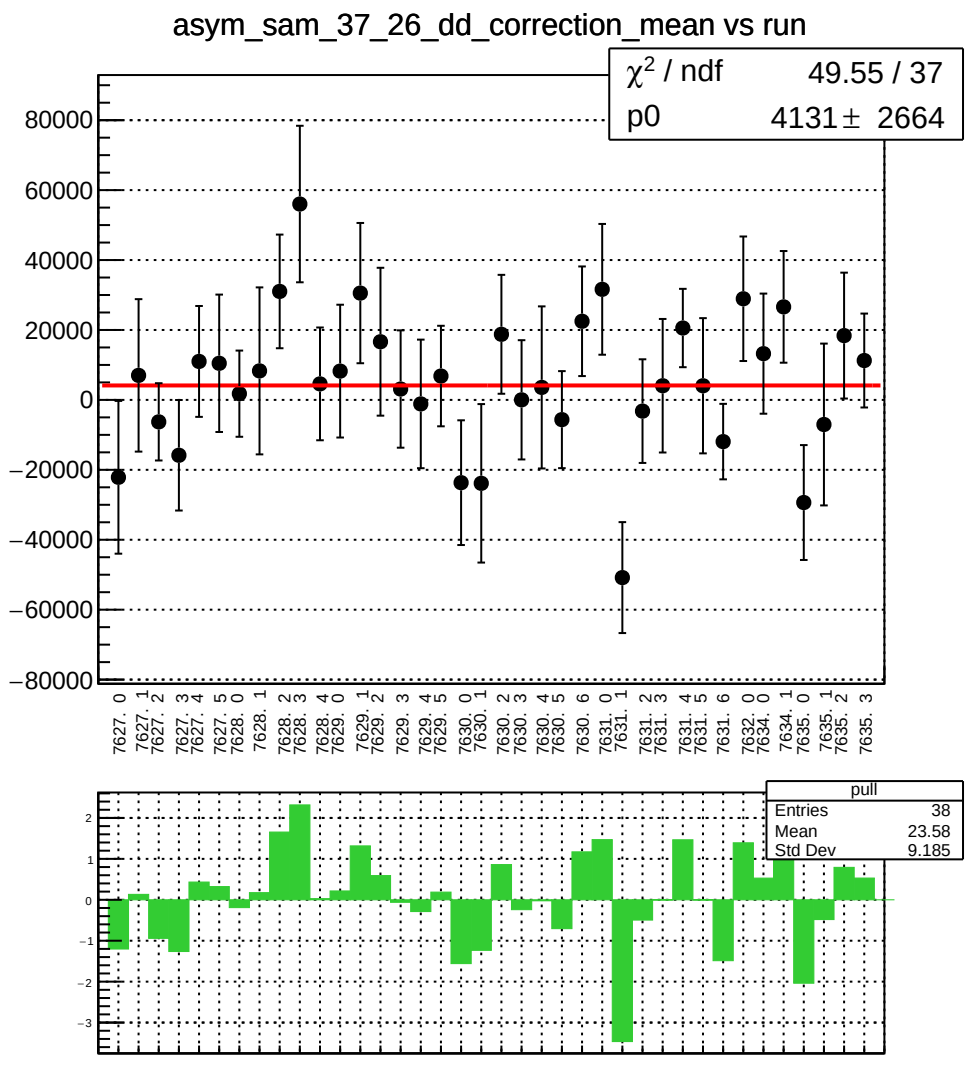

pull1D
Entries 38
Mean −0.02082
Std Dev 1.081
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

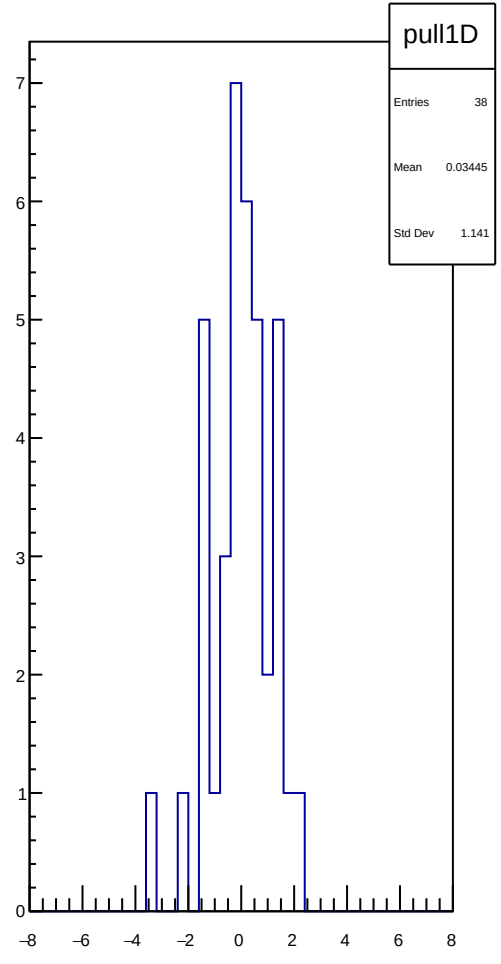

asym_sam_15_26_dd_rms vs run
χ² / ndf 2.323e+04 / 37
p0 2869 ± 3.328
4000
3500
3000
2500
2000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

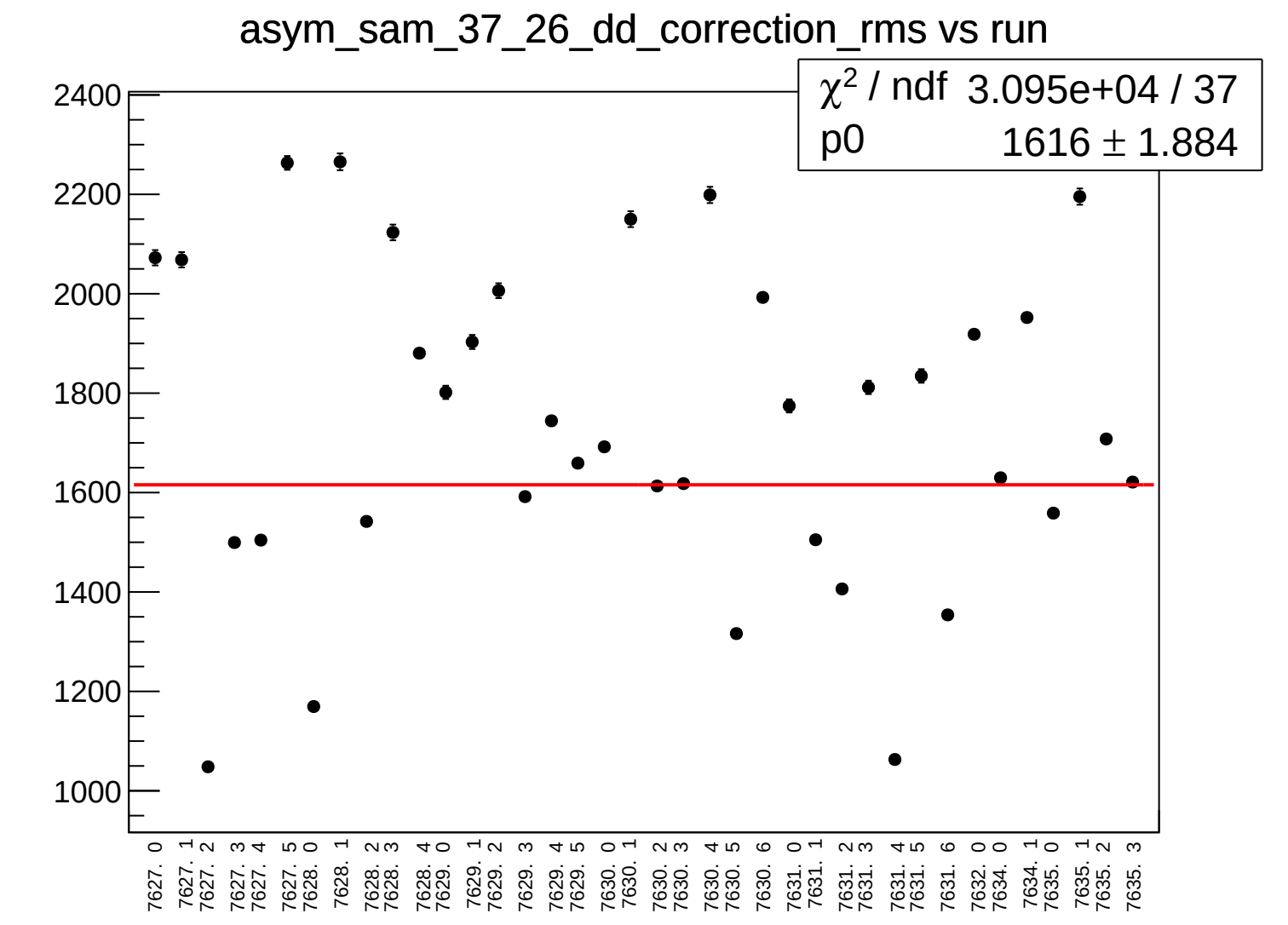

dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 30.55 / 37
p0 −490.7 ± 618.1
15000
10000
5000
0
−5000
−10000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −17.79
Std Dev 34
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

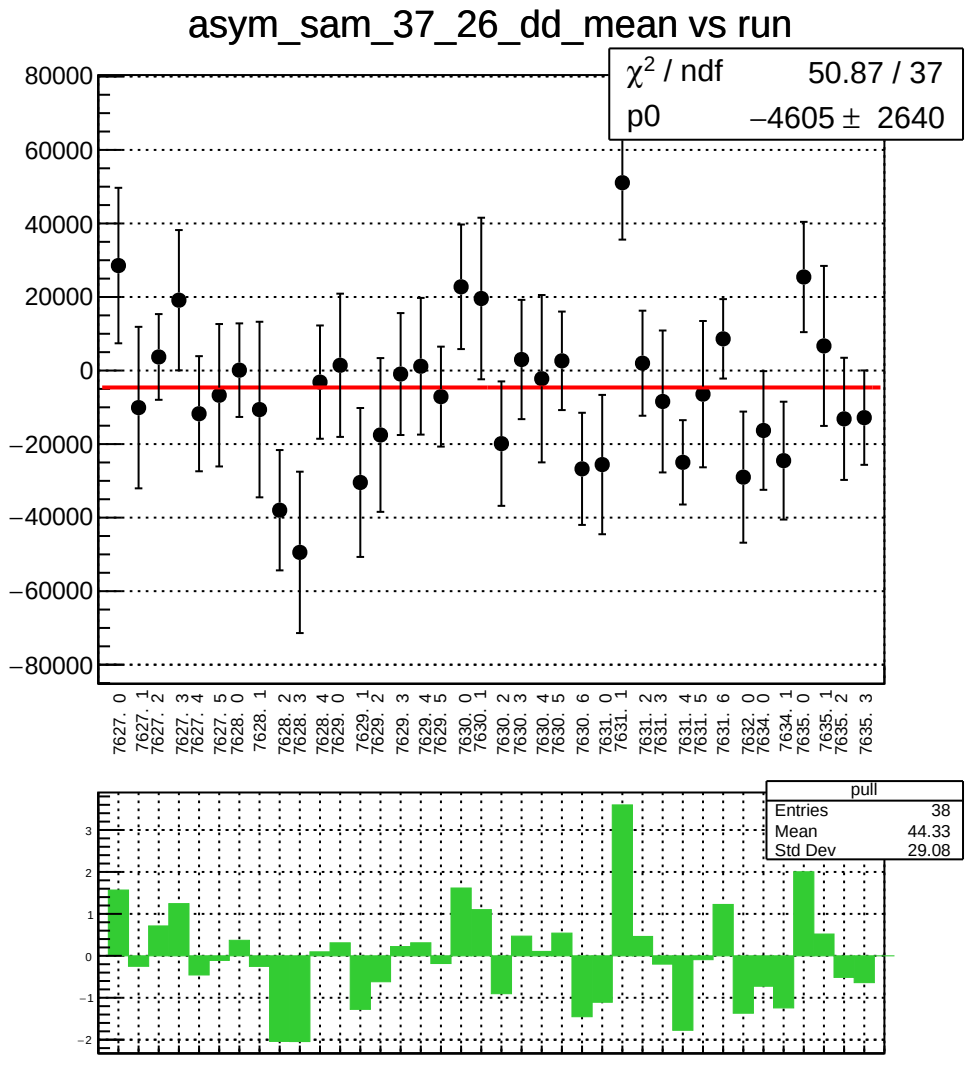

pull1D
Entries 38
Mean 0.06113
Std Dev 0.8946
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

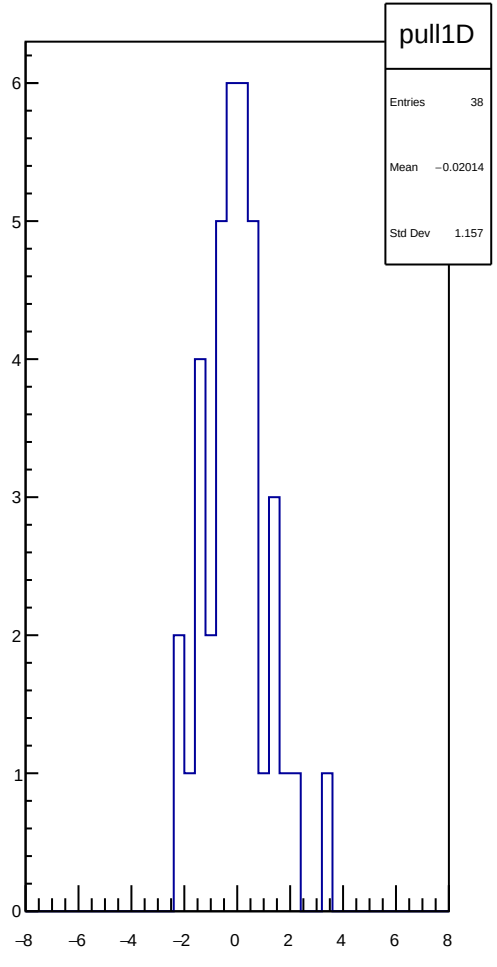

dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 1.954e+04 / 37
p0 377.7 ± 0.4371
500
450
400
350
300
250
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

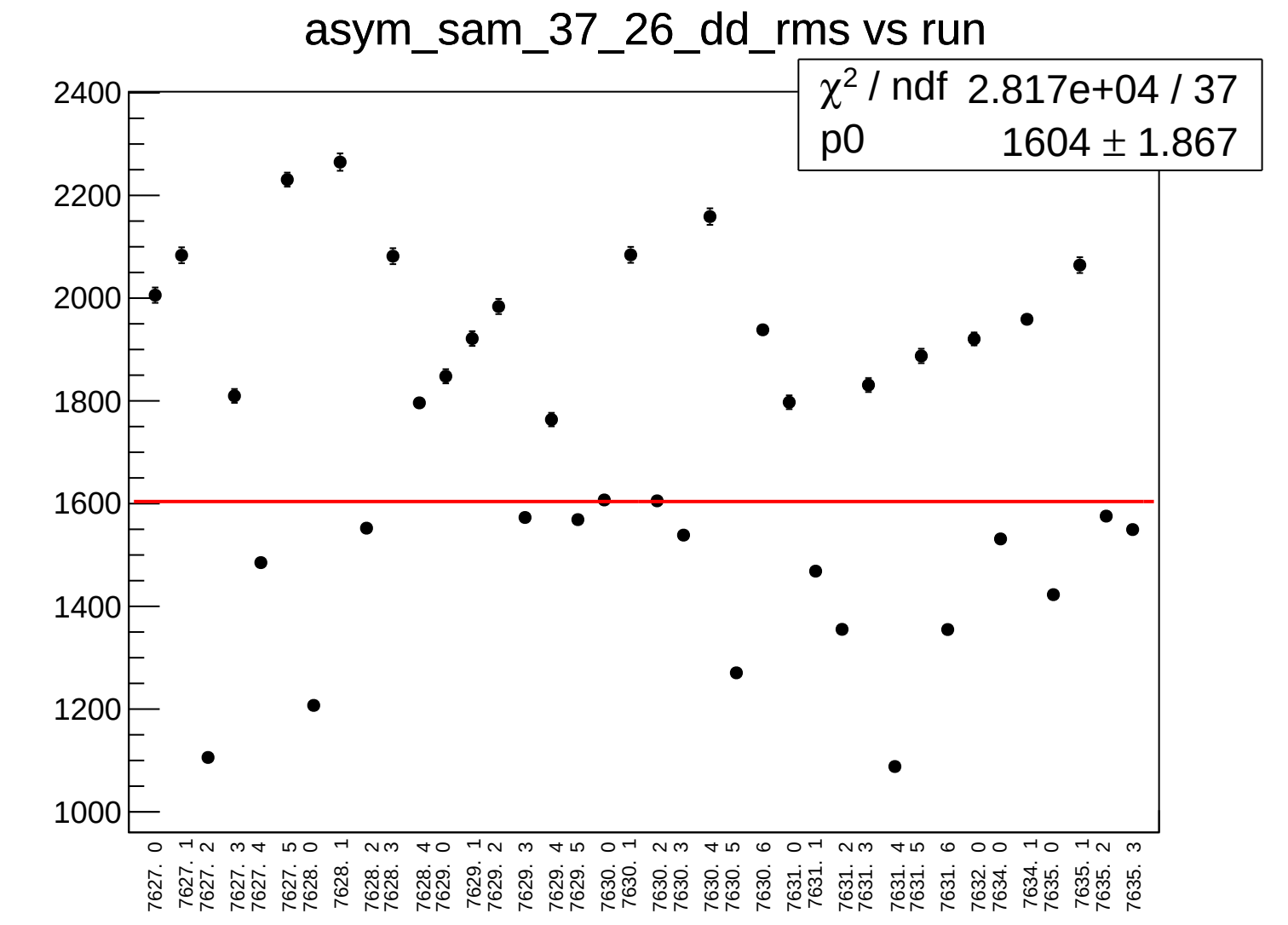

asym_sam_37_26_dd_correction_mean vs run
χ² / ndf 49.55 / 37
p0 4131 ± 2664
pull
Entries 38
Mean 23.58
Std Dev 9.185

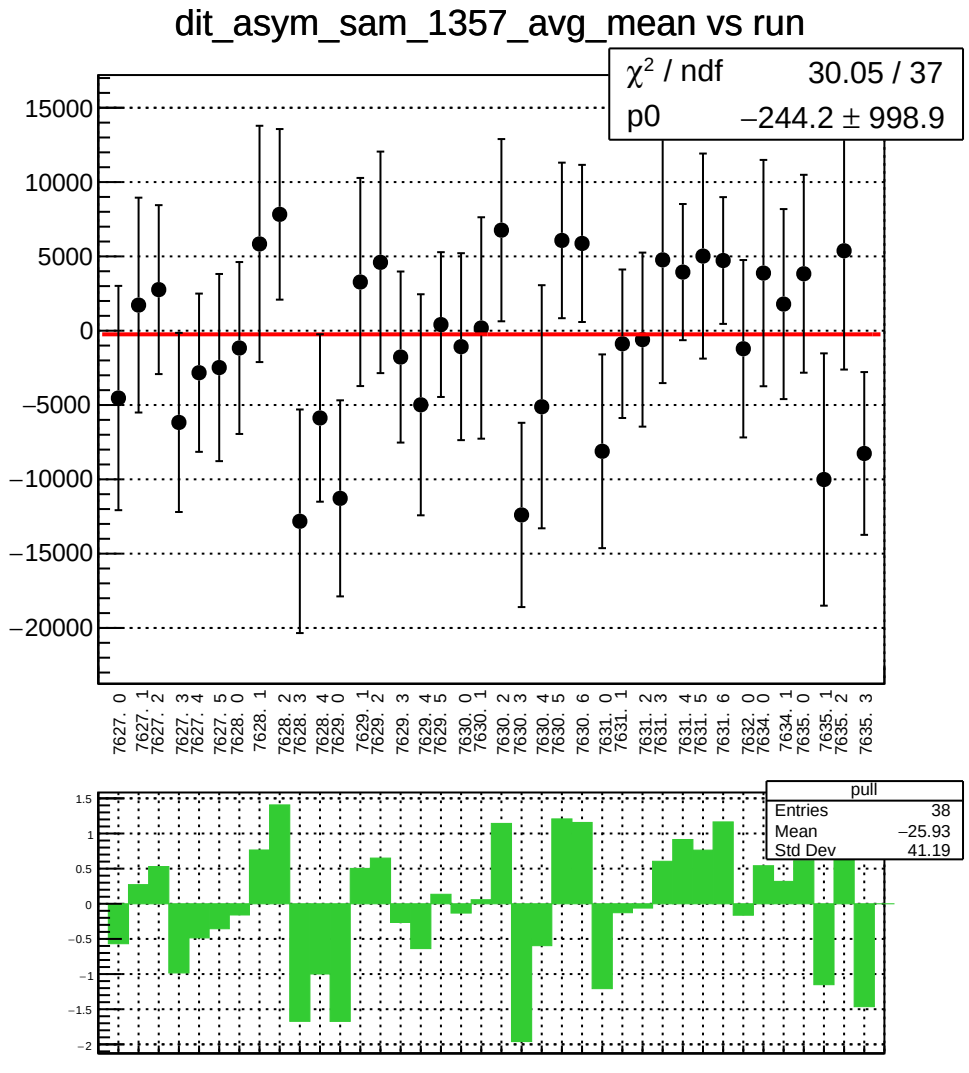

pull1D
Entries 38
Mean 0.03445
Std Dev 1.141

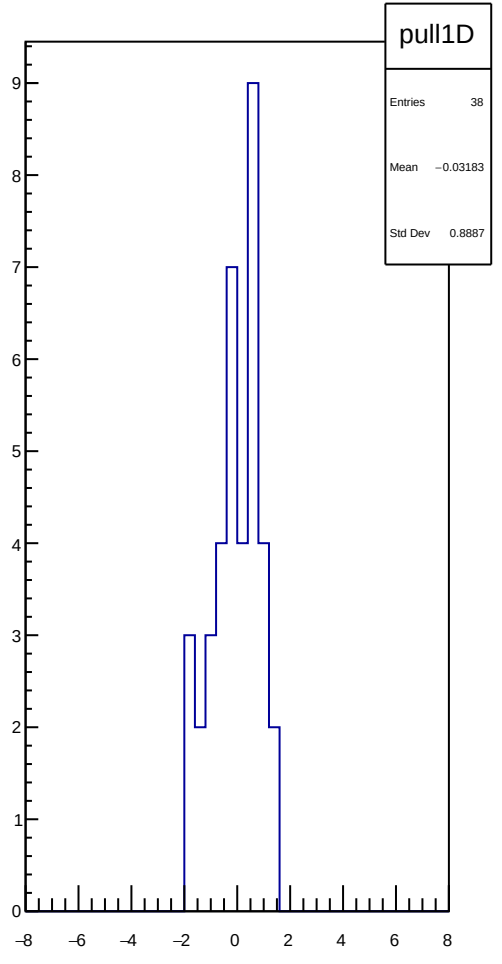

asym_sam_37_26_dd_correction_rms vs run
χ² / ndf 3.095e+04 / 37
p0 1616 ± 1.884
2400
2200
2000
1800
1600
1400
1200
1000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

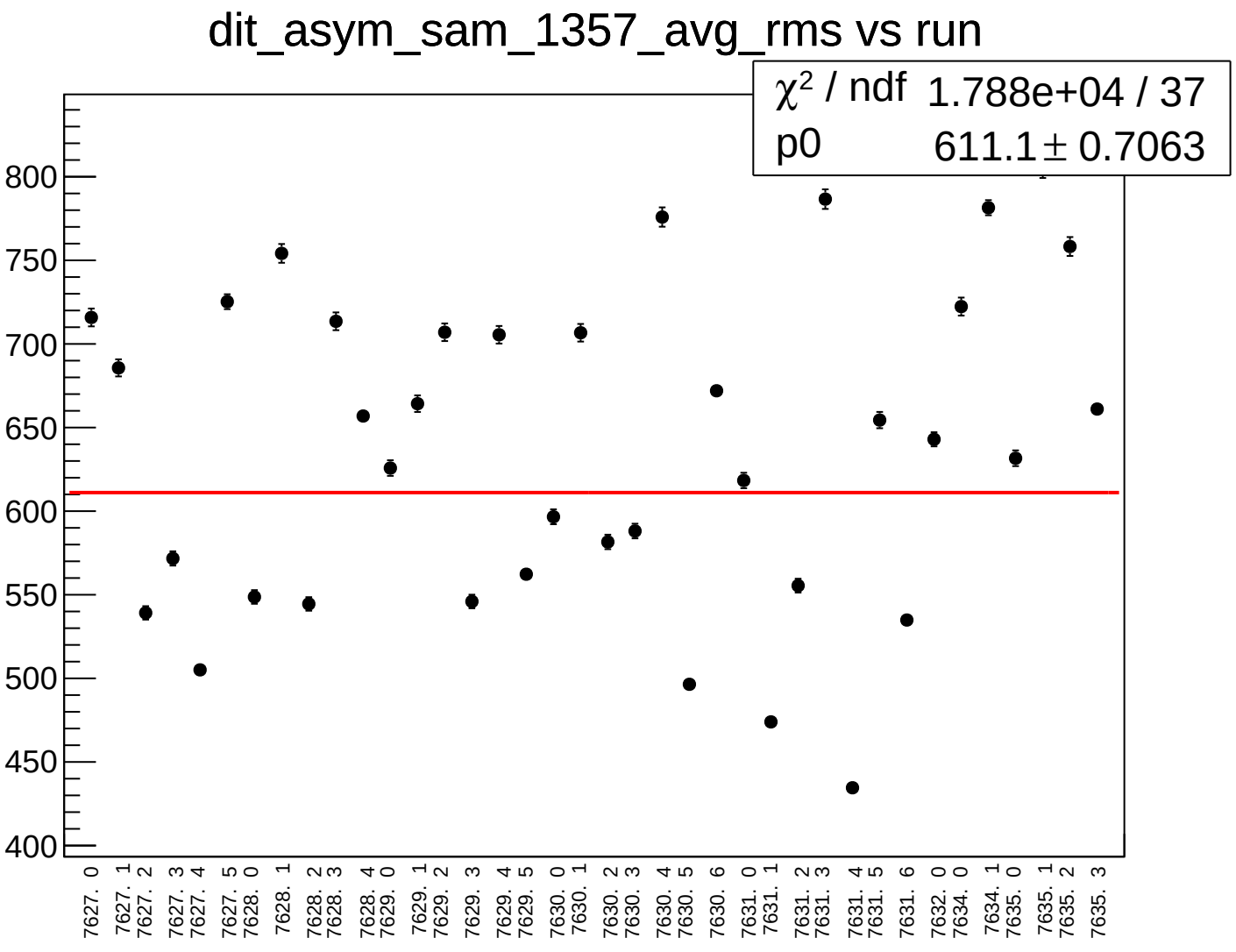

asym_sam_37_26_dd_mean vs run
χ² / ndf 50.87 / 37
p0 −4605 ± 2640
pull
Entries 38
Mean 44.33
Std Dev 29.08

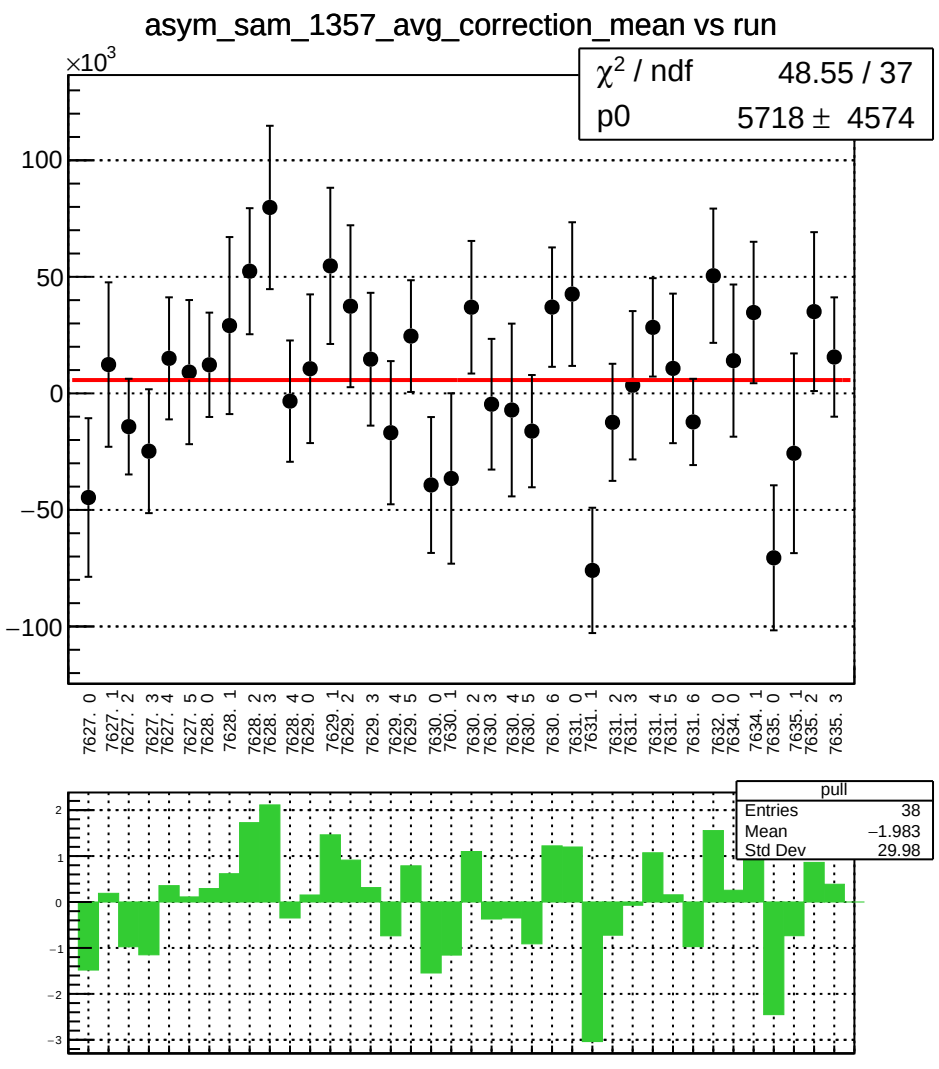

pull1D
Entries 38
Mean −0.02014
Std Dev 1.157

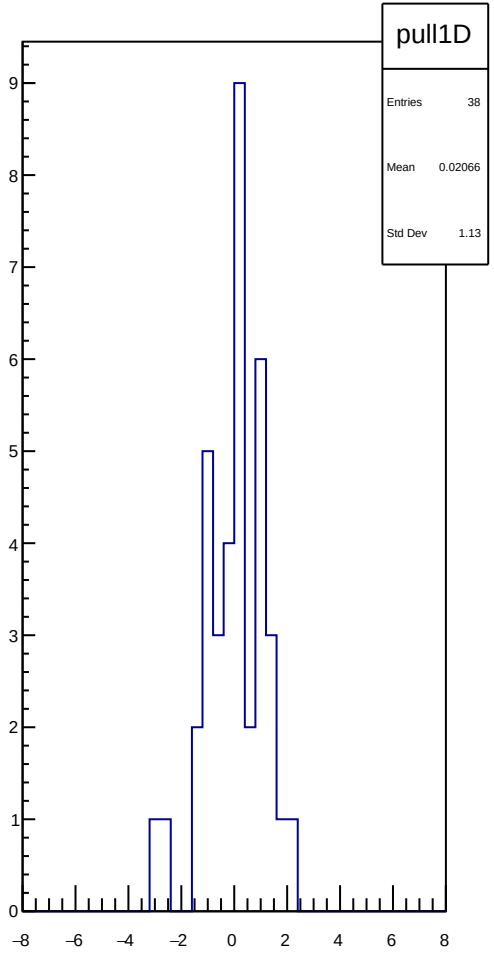

asym_sam_37_26_dd_rms vs run
χ² / ndf 2.817e+04 / 37
p0 1604 ± 1.867
2400
2200
2000
1800
1600
1400
1200
1000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

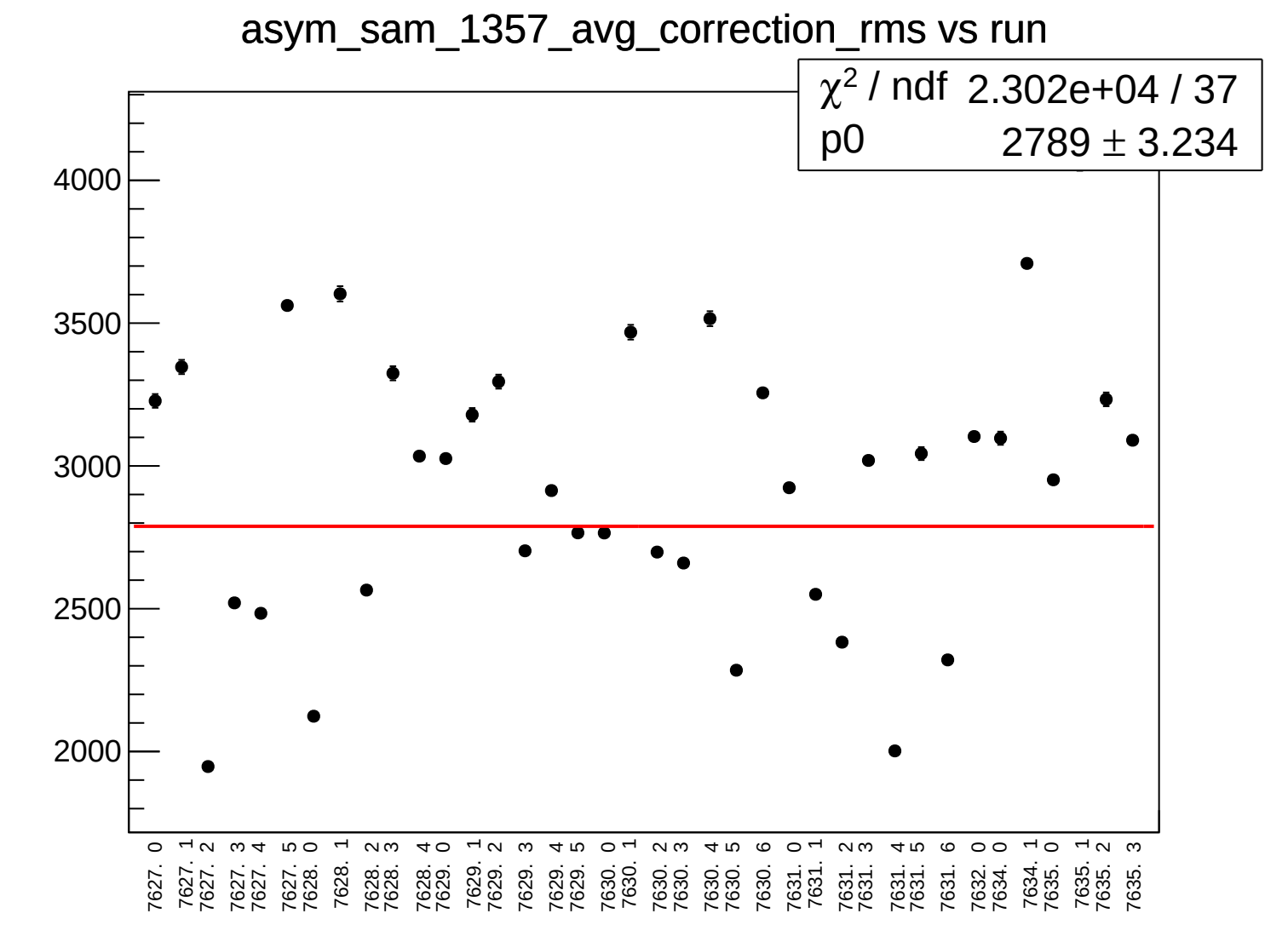

dit_asym_sam_1357_avg_mean vs run
χ² / ndf 30.05 / 37
p0 −244.2 ± 998.9
15000
10000
5000
0
−5000
−10000
−15000
−20000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −25.93
Std Dev 41.19
1.5
1
0.5
0
−0.5
−1
−1.5
−2

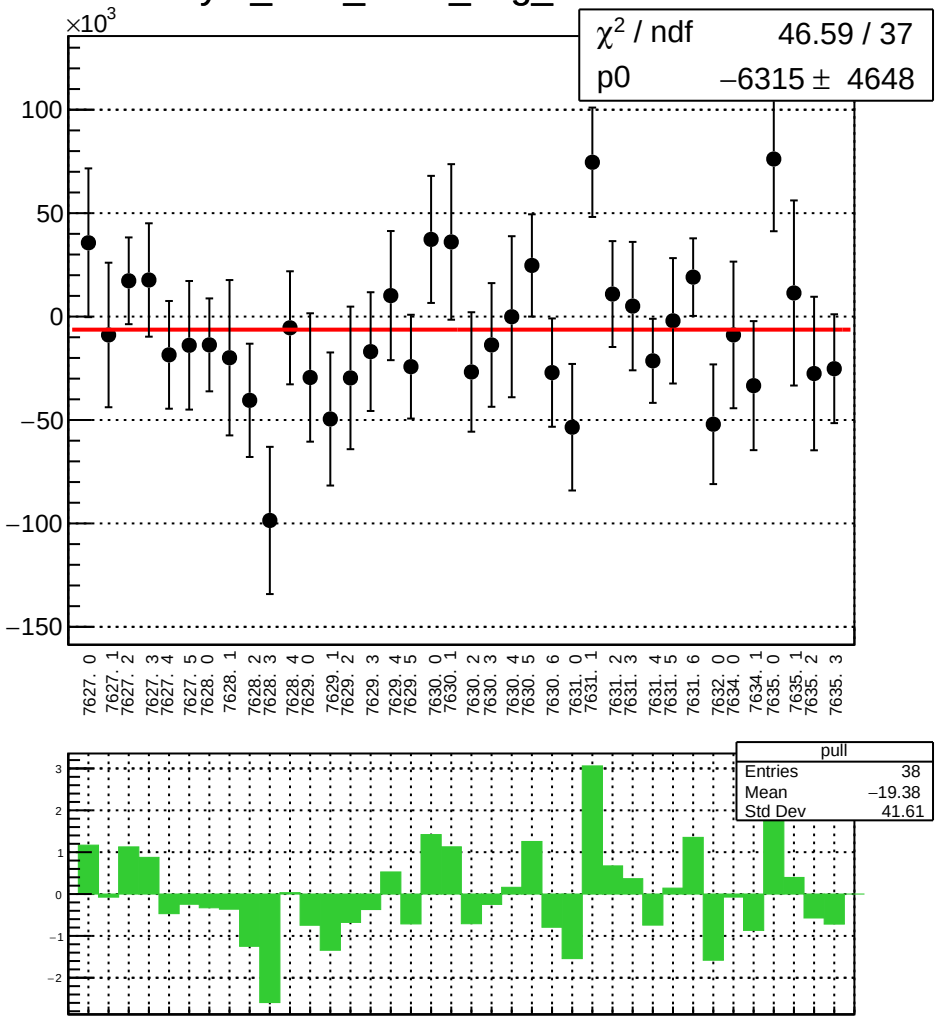

pull1D
Entries 38
Mean −0.03183
Std Dev 0.8887
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

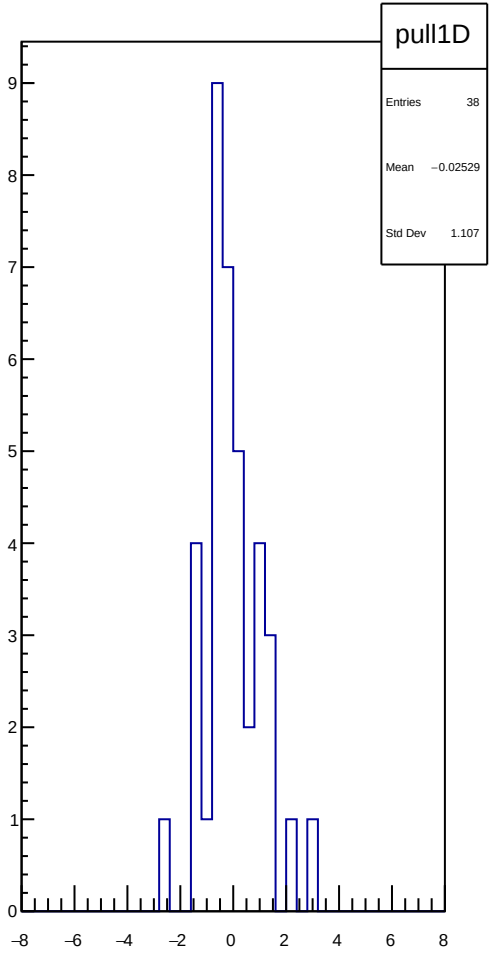

dit_asym_sam_1357_avg_rms vs run
χ² / ndf 1.788e+04 / 37
p0 611.1 ± 0.7063
800
750
700
650
600
550
500
450
400
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

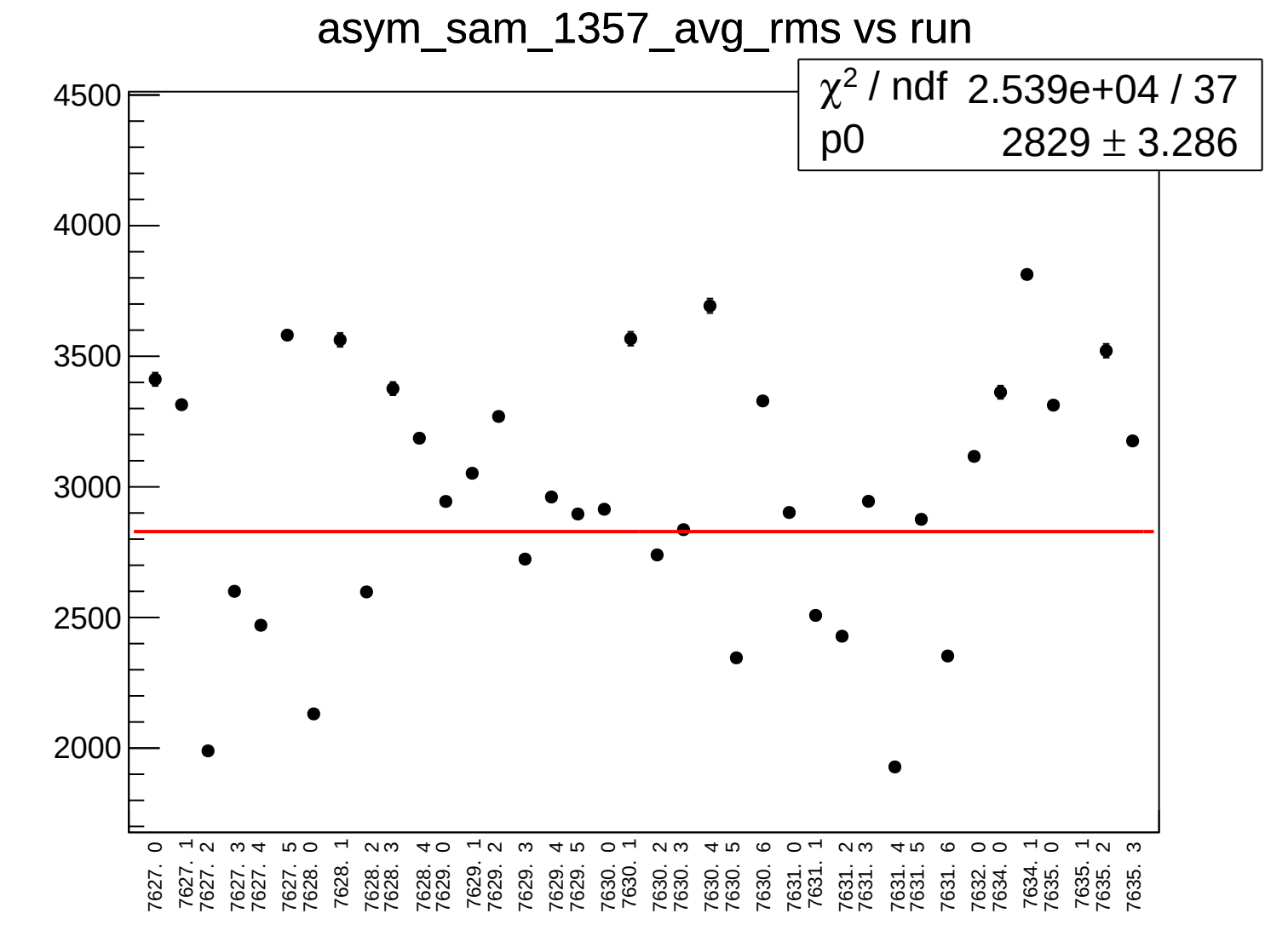

asym_sam_1357_avg_correction_mean vs run
×10^3
χ^2 / ndf 48.55 / 37
p0 5718 ± 4574
100
50
0
−50
−100
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −1.983
Std Dev 29.98
2
1
0
−1
−2
−3

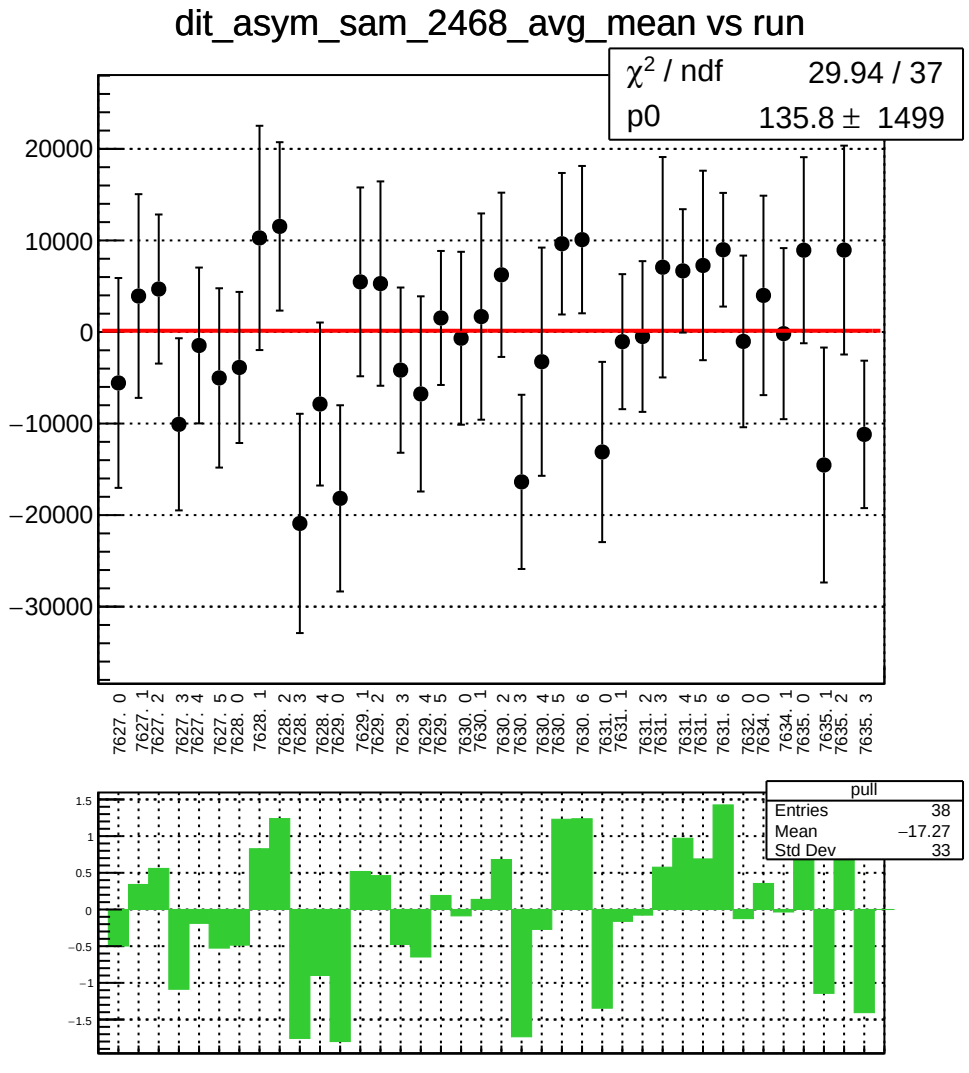

pull1D
Entries 38
Mean 0.02066
Std Dev 1.13
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

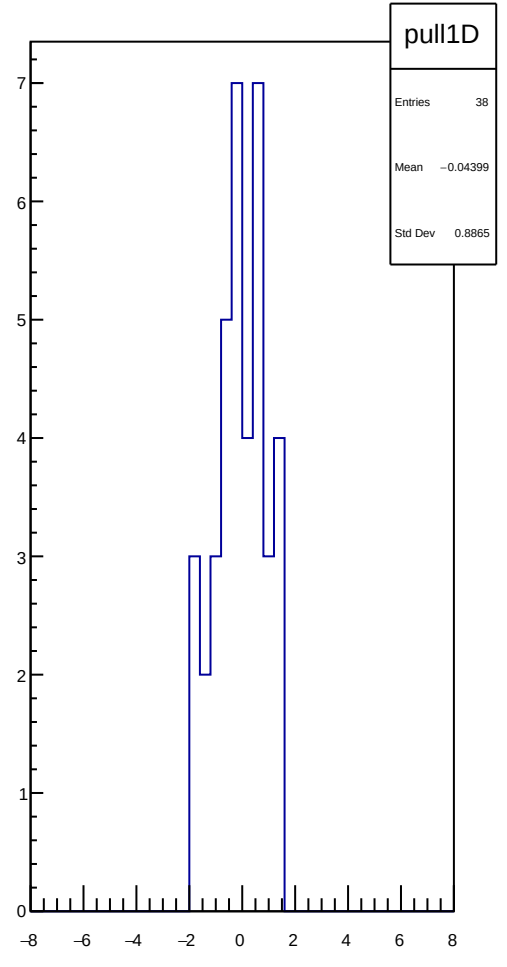

asym_sam_1357_avg_correction_rms vs run
χ² / ndf 2.302e+04 / 37
p0 2789 ± 3.234
4000
3500
3000
2500
2000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

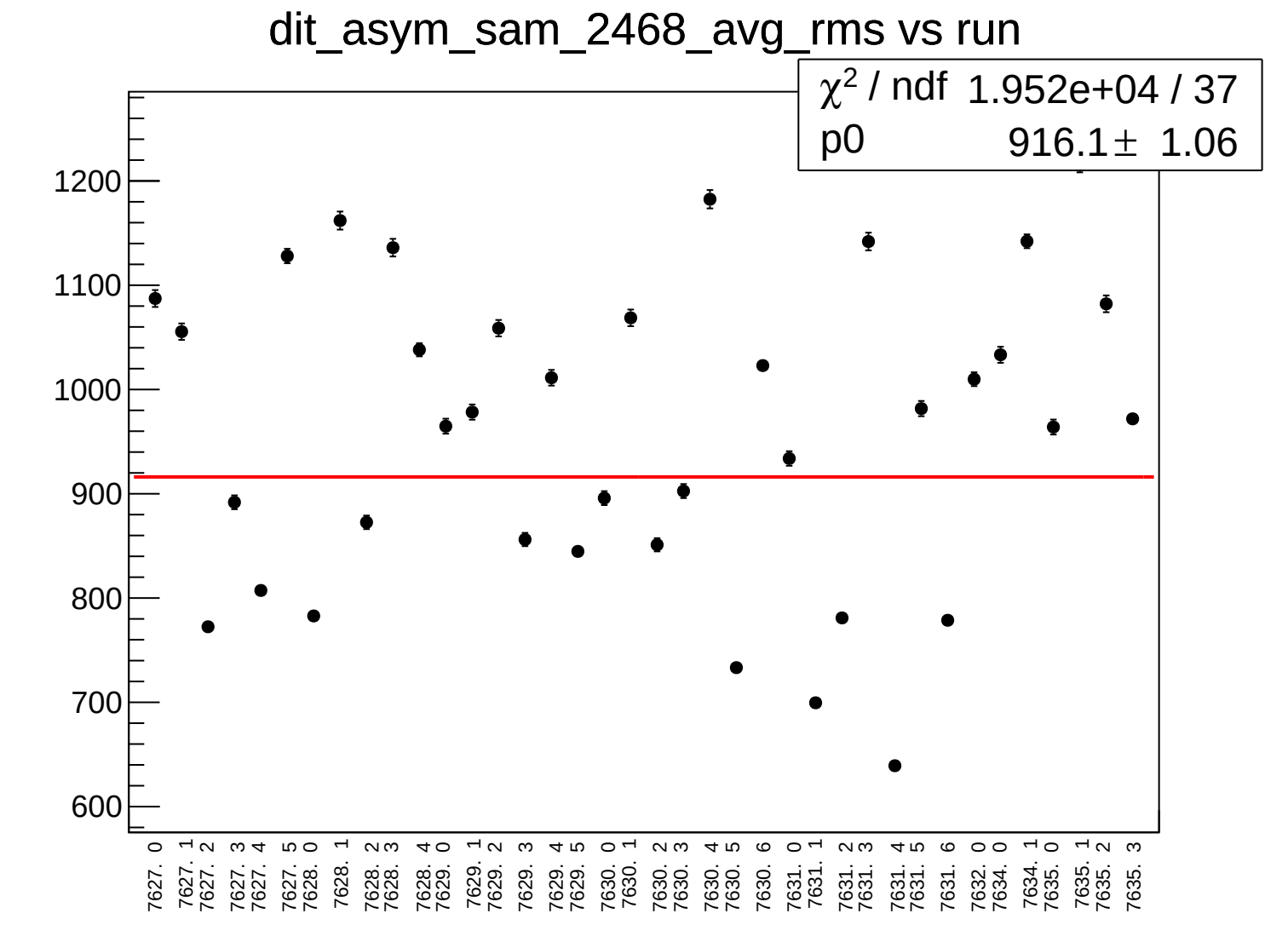

asym_sam_1357_avg_mean vs run
×10^3
χ² / ndf 46.59 / 37
p0 −6315 ± 4648
100
50
0
−50
−100
−150
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 4
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −19.38
Std Dev 41.61
3
2
1
0
−1
−2

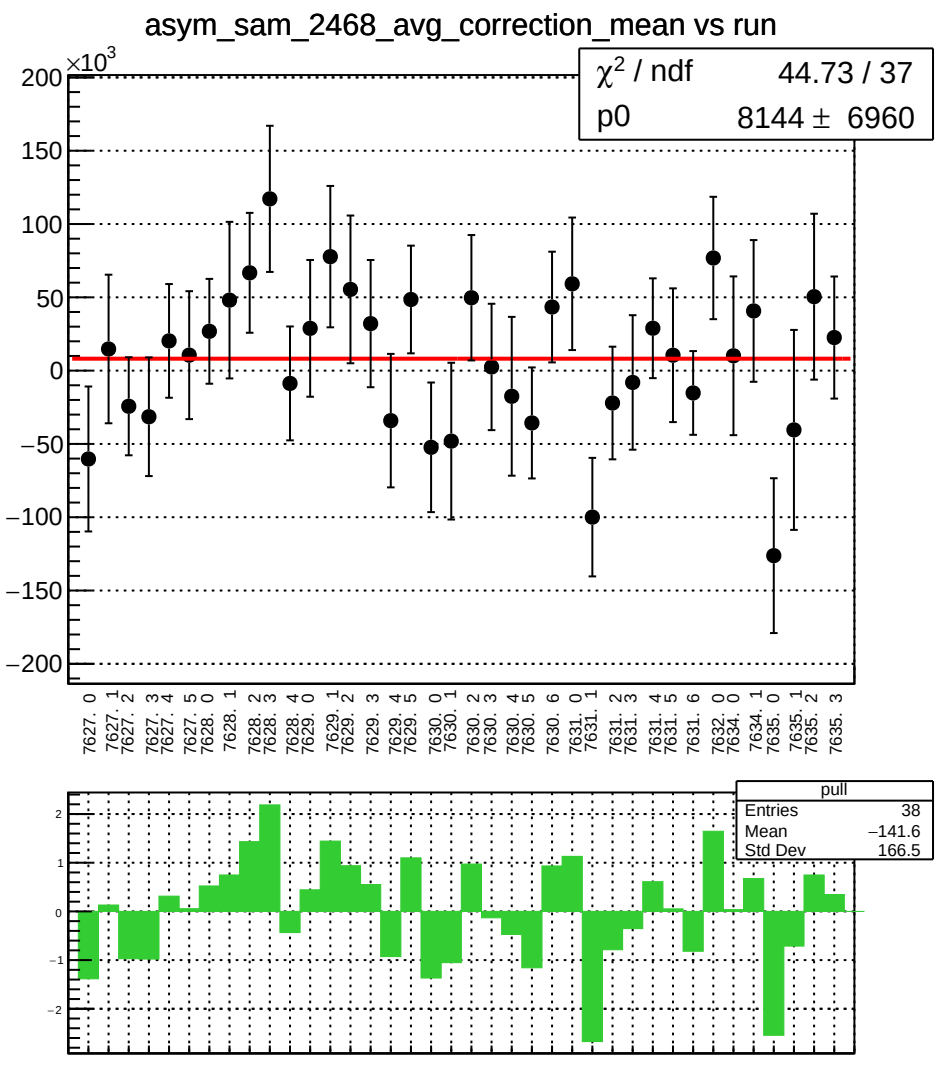

pull1D
Entries 38
Mean −0.02529
Std Dev 1.107
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

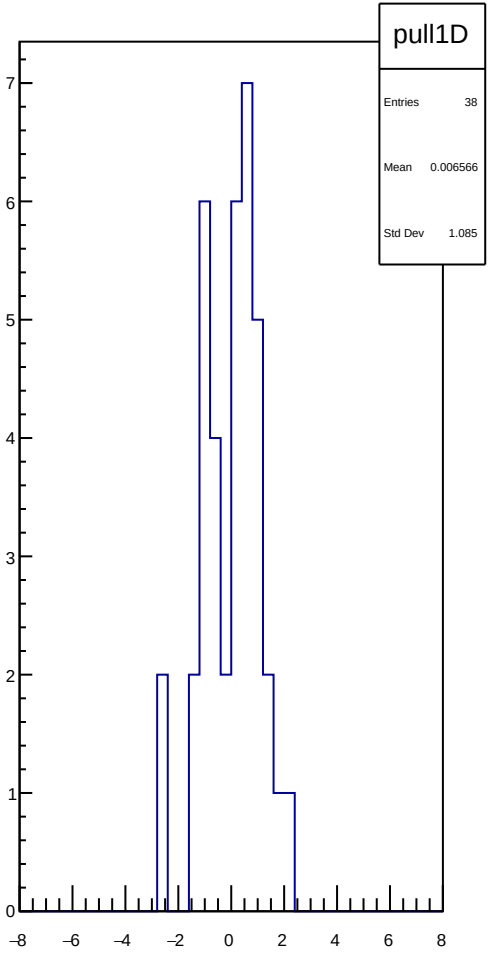

asym_sam_1357_avg_rms vs run
χ² / ndf 2.539e+04 / 37
p0 2829 ± 3.286
4500
4000
3500
3000
2500
2000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

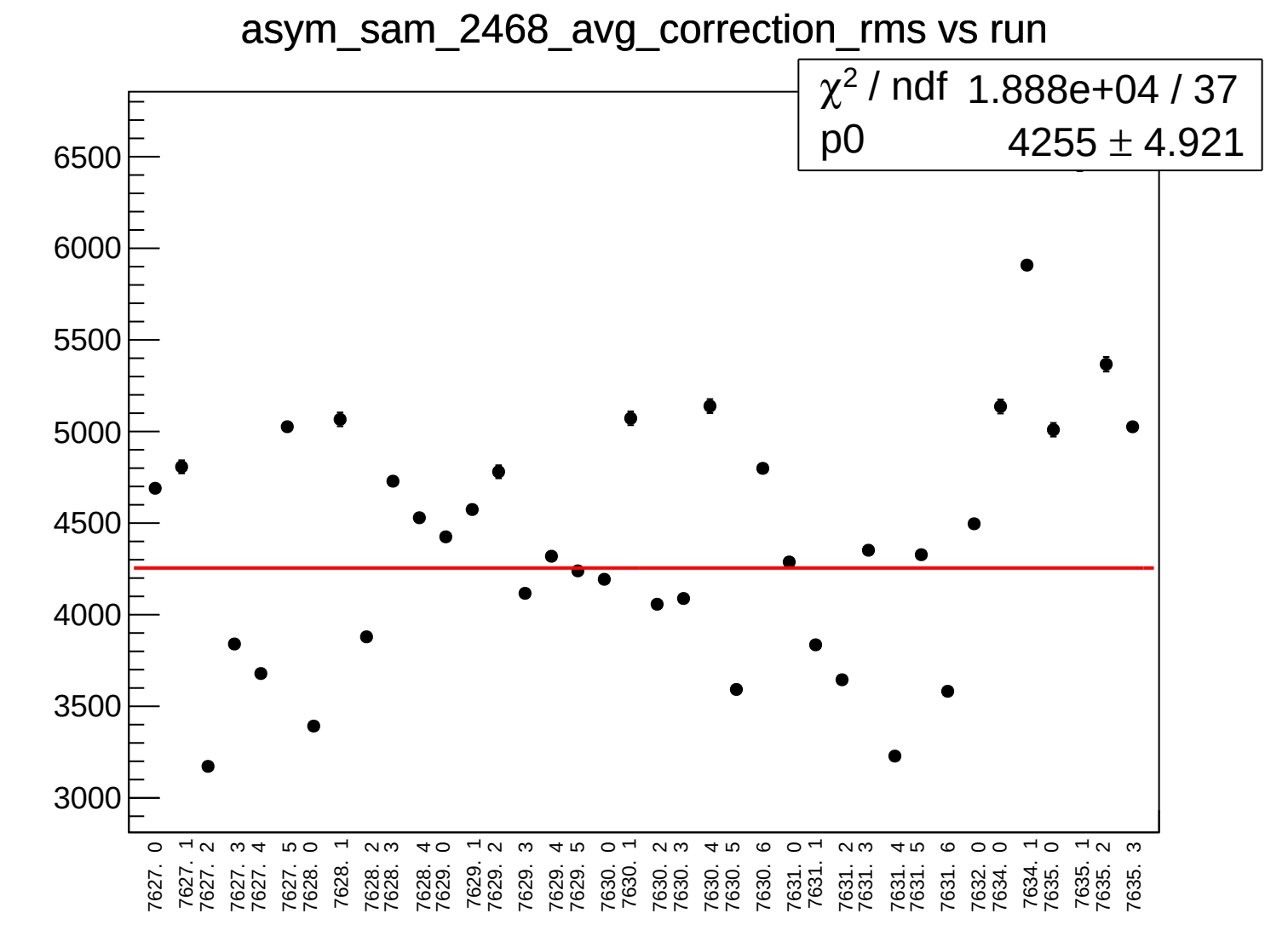

dit_asym_sam_2468_avg_mean vs run
χ² / ndf 29.94 / 37
p0 135.8 ± 1499
20000
10000
0
−10000
−20000
−30000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −17.27
Std Dev 33
1.5
1
0.5
0
−0.5
−1
−1.5

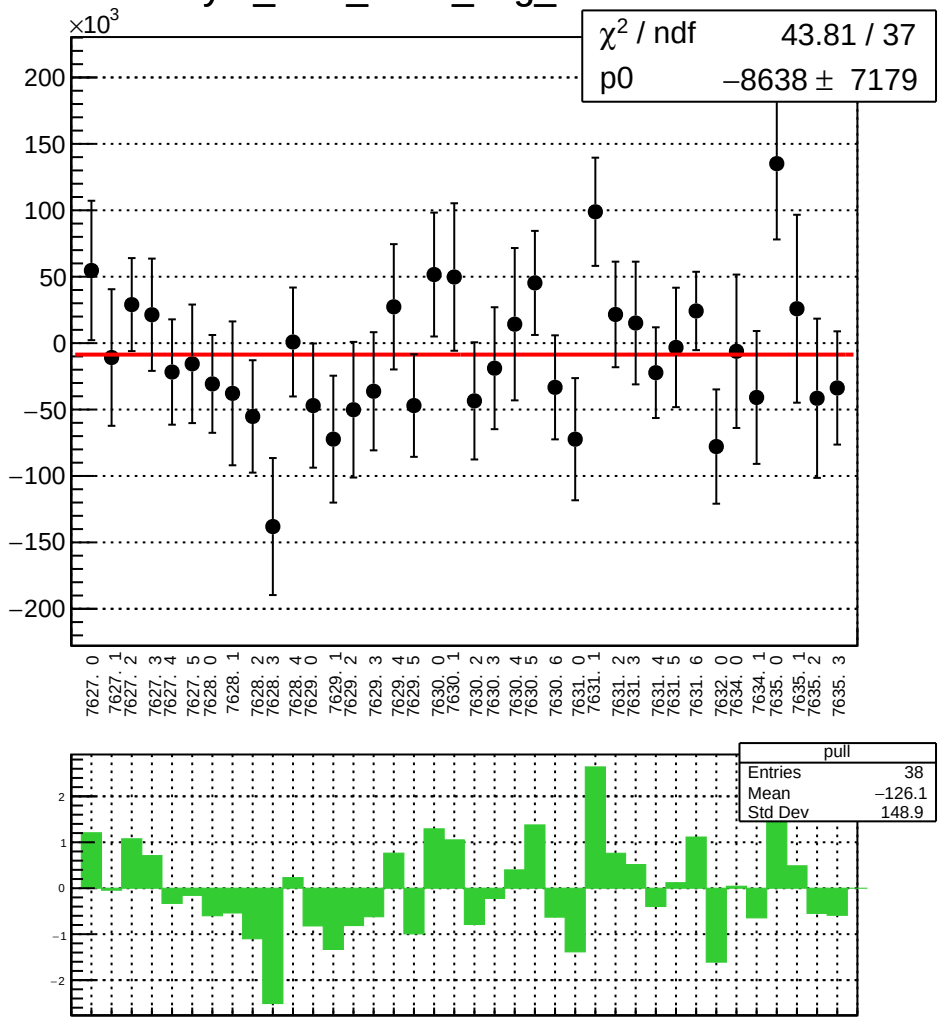

pull1D
Entries 38
Mean −0.04399
Std Dev 0.8865
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

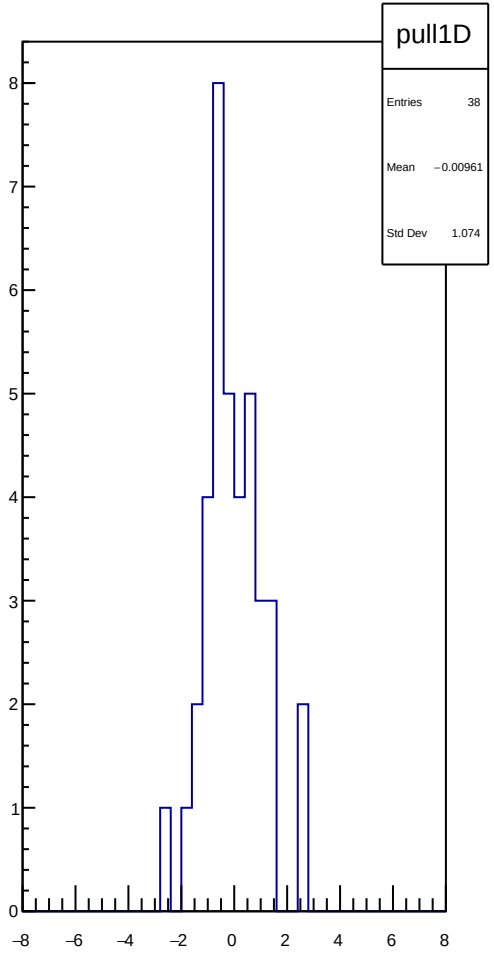

dit_asym_sam_2468_avg_rms vs run
χ² / ndf 1.952e+04 / 37
p0 916.1 ± 1.06
1200
1100
1000
900
800
700
600
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

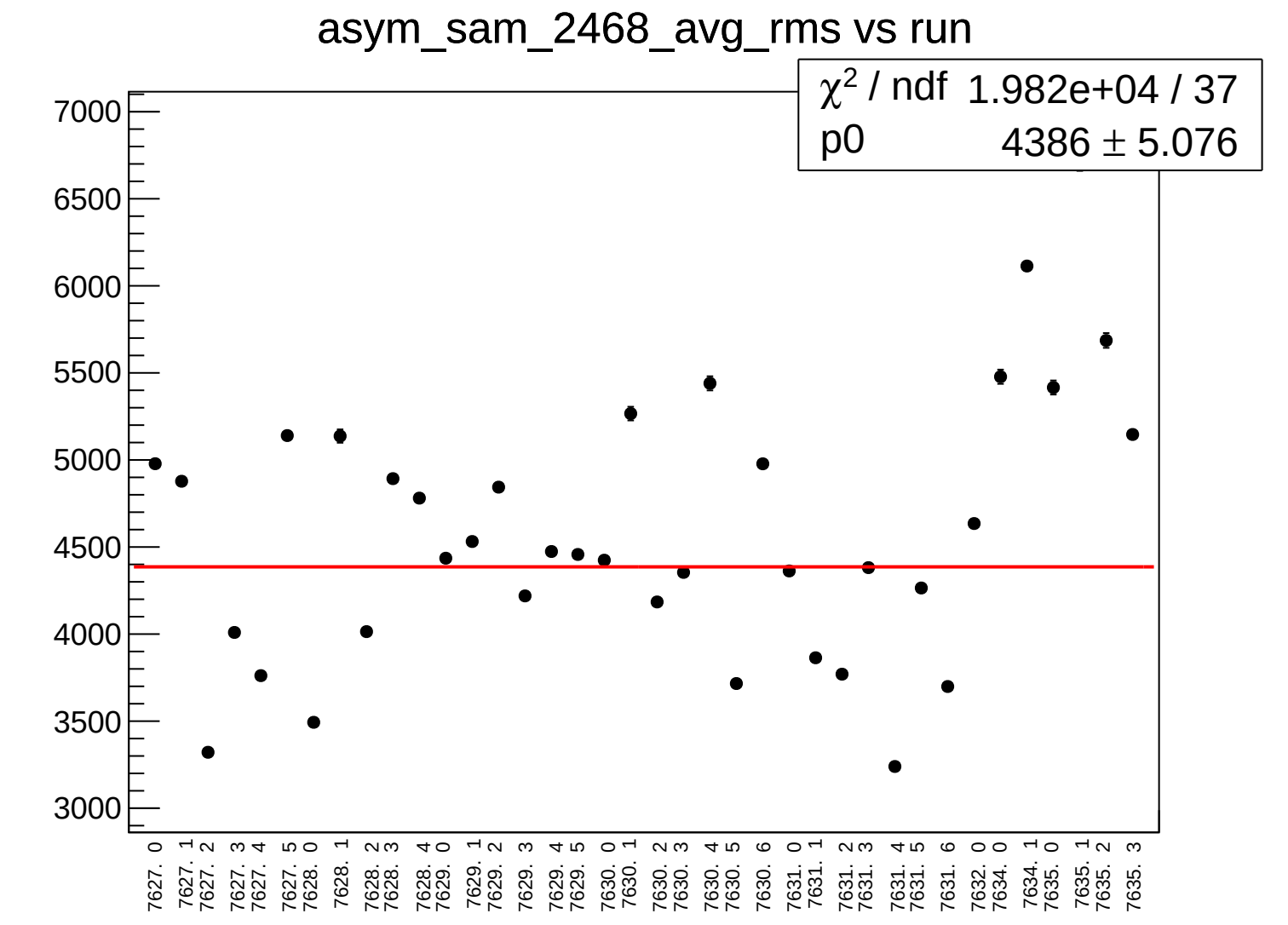

asym_sam_2468_avg_correction_mean vs run
×10^3
χ² / ndf 44.73 / 37
p0 8144 ± 6960
pull
Entries 38
Mean −141.6
Std Dev 166.5

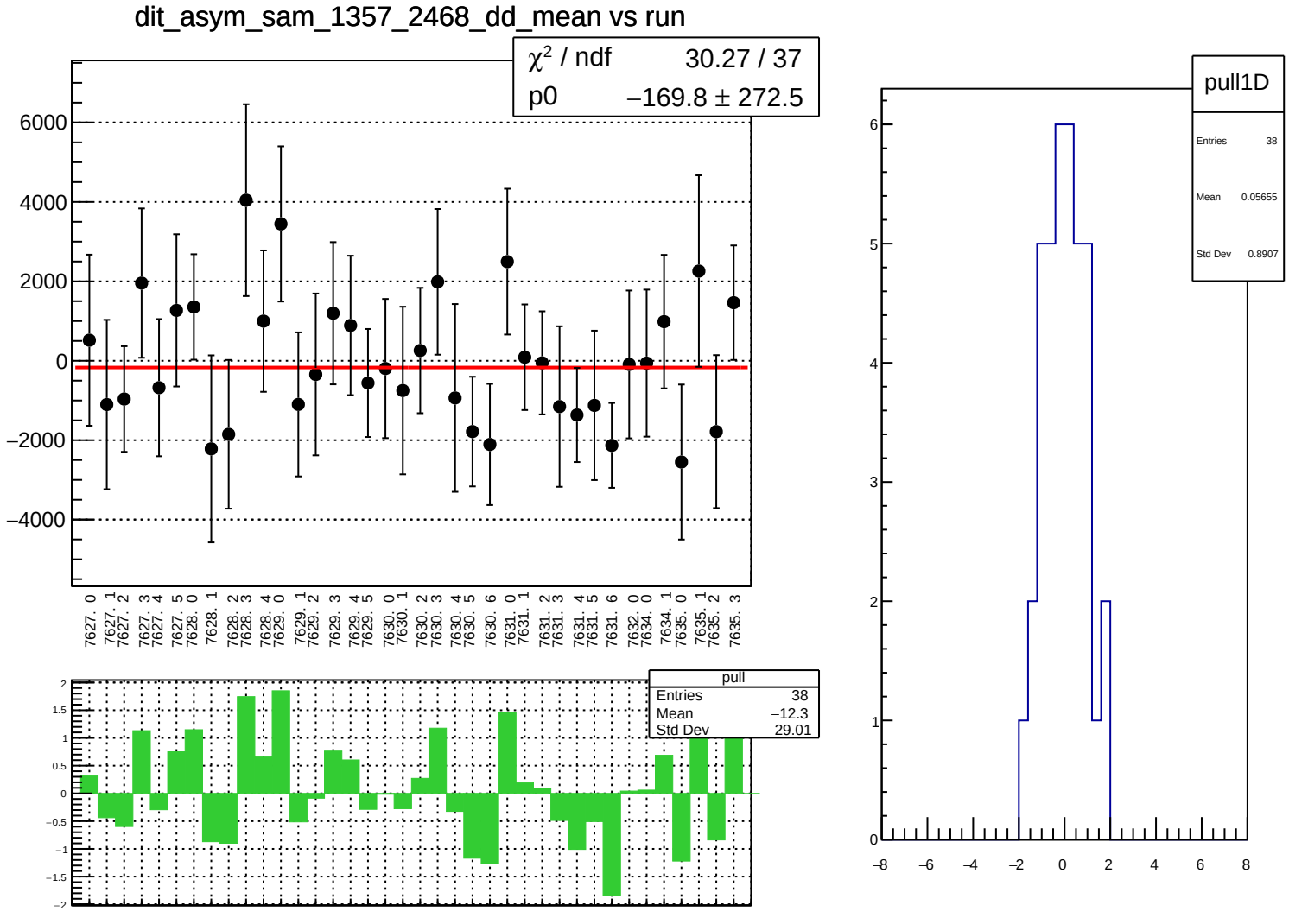

pull1D
Entries 38
Mean 0.006566
Std Dev 1.085

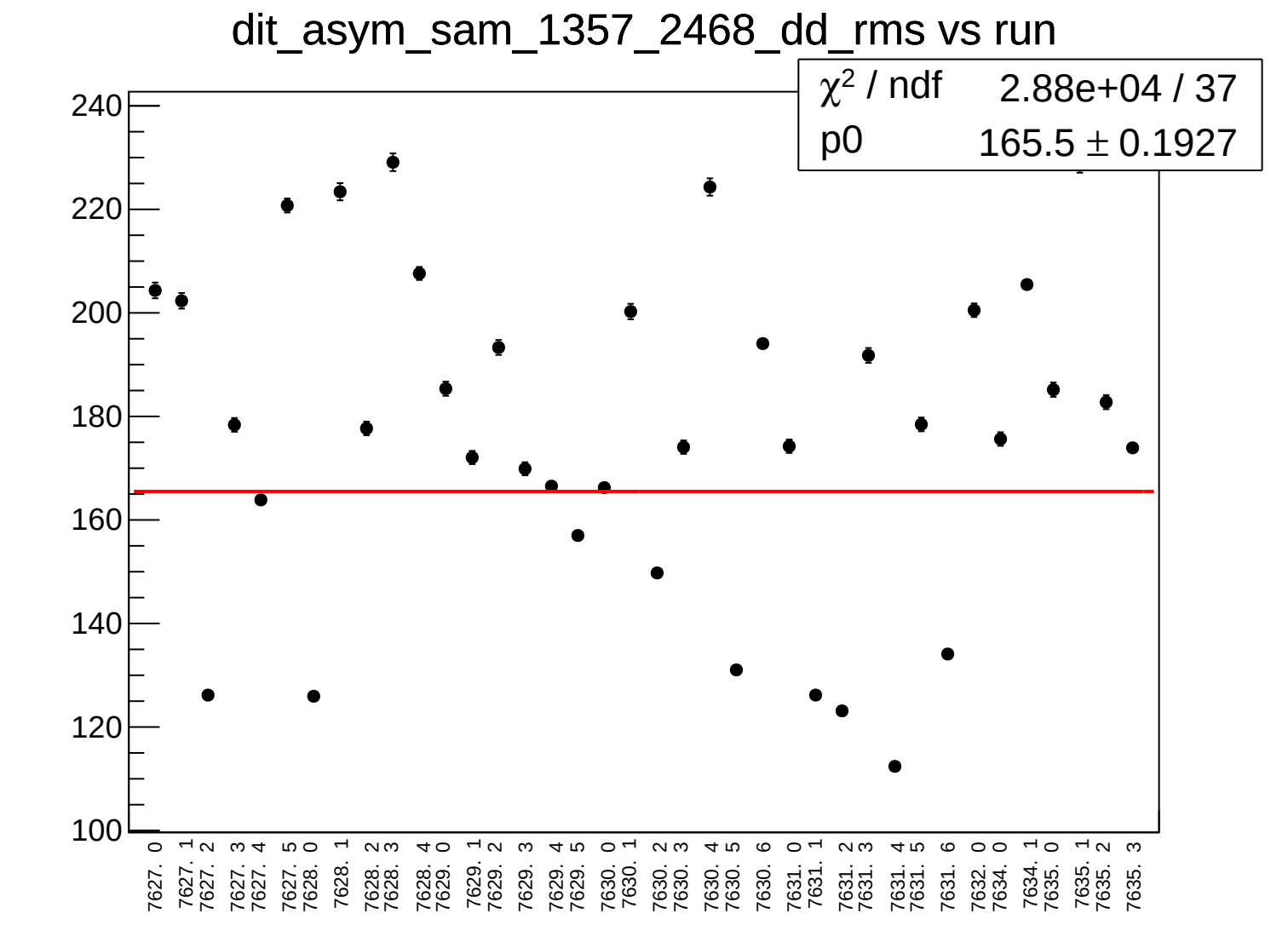

asym_sam_2468_avg_correction_rms vs run
χ² / ndf 1.888e+04 / 37
p0 4255 ± 4.921
6500
6000
5500
5000
4500
4000
3500
3000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

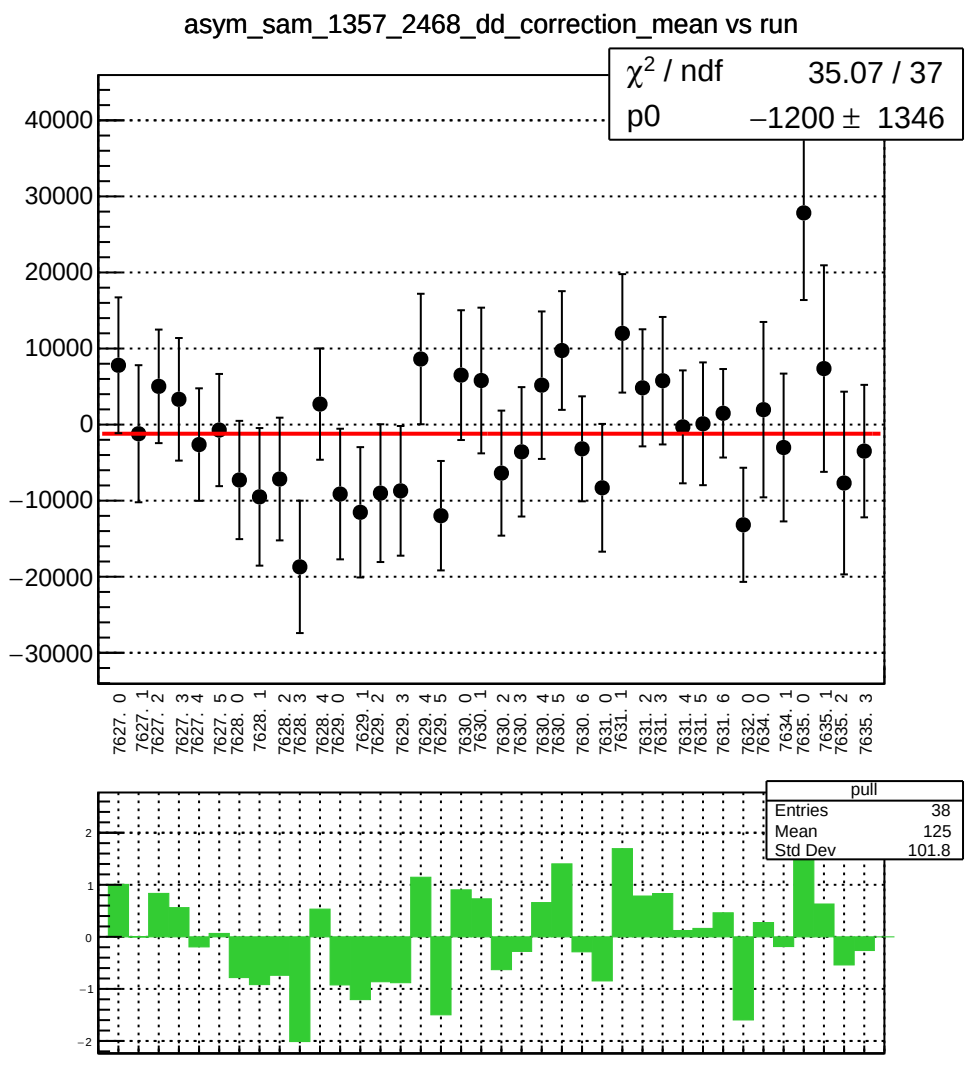

asym_sam_2468_avg_mean vs run
×10^3
χ² / ndf 43.81 / 37
p0 −8638 ± 7179
200
150
100
50
0
−50
−100
−150
−200
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −126.1
Std Dev 148.9
2
1
0
−1
−2

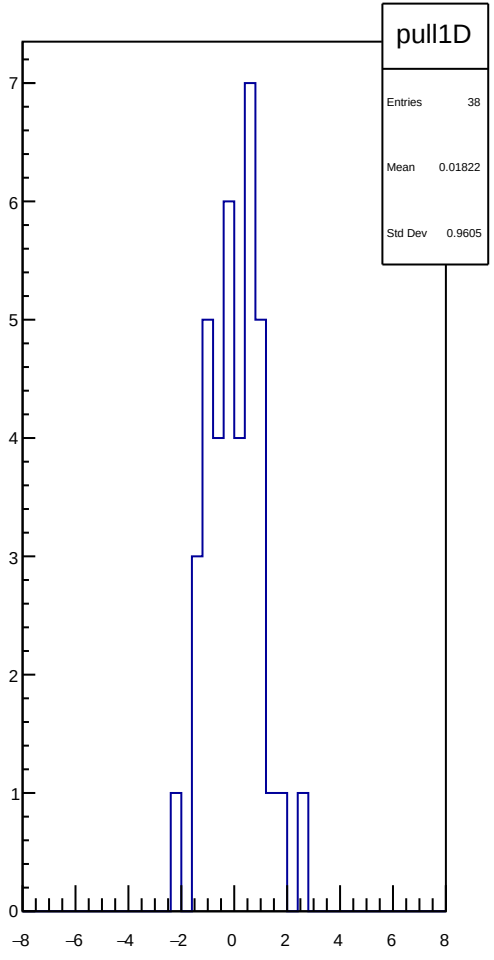

pull1D
Entries 38
Mean −0.00961
Std Dev 1.074
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

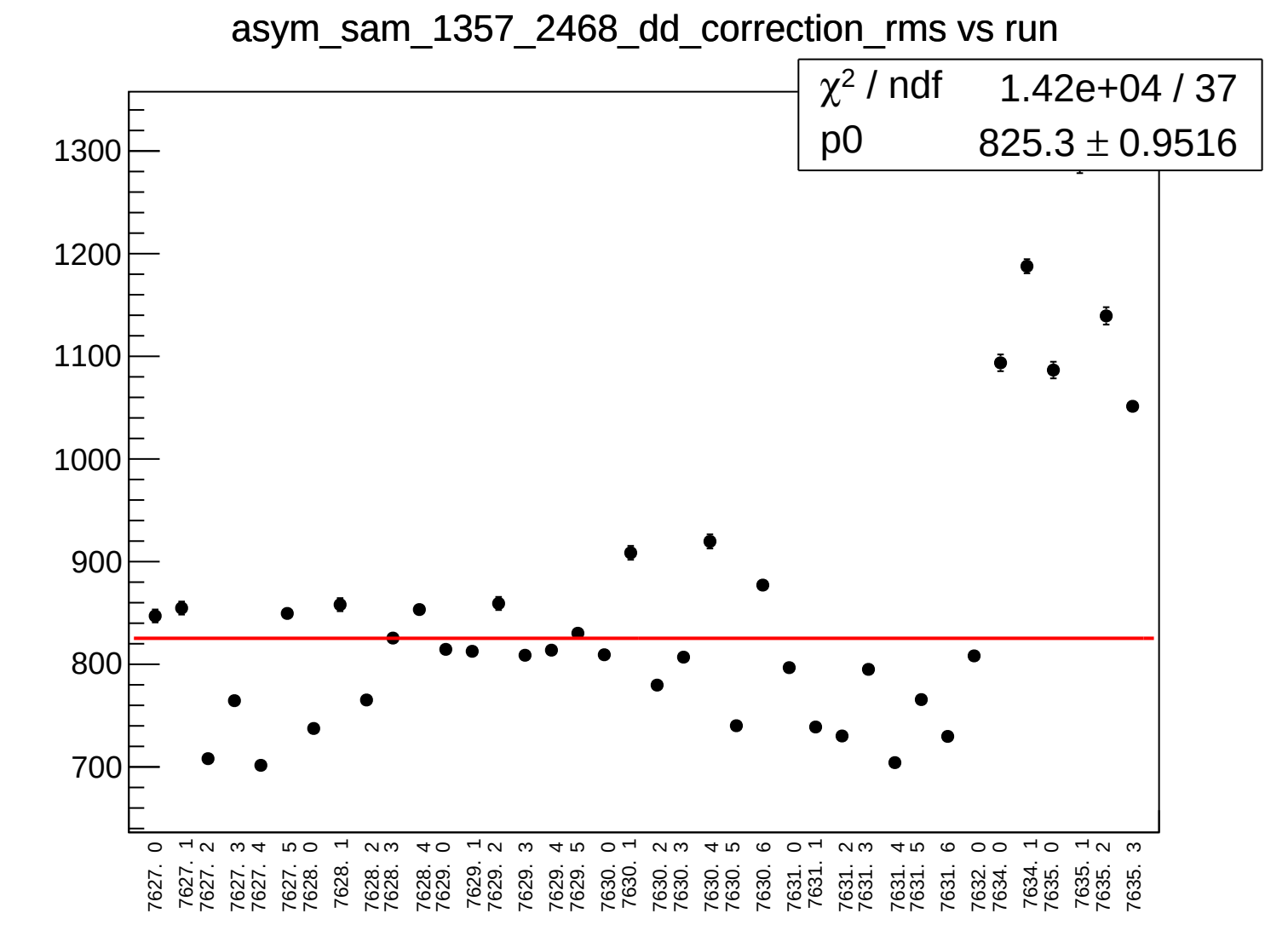

asym_sam_2468_avg_rms vs run
χ² / ndf 1.982e+04 / 37
p0 4386 ± 5.076
7000
6500
6000
5500
5000
4500
4000
3500
3000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

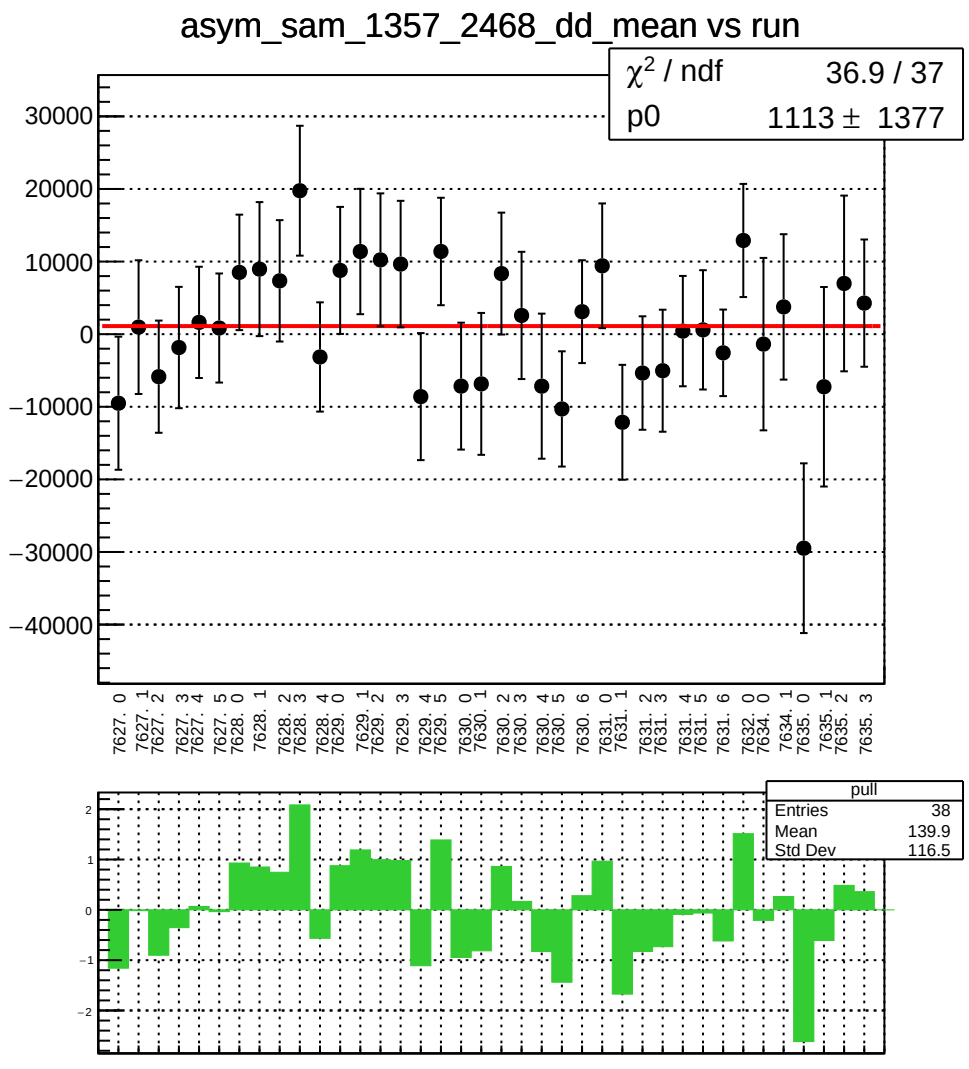

dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 30.27 / 37
p0 −169.8 ± 272.5
6000
4000
2000
0
−2000
−4000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −12.3
Std Dev 29.01
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 38
Mean 0.05655
Std Dev 0.8907
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

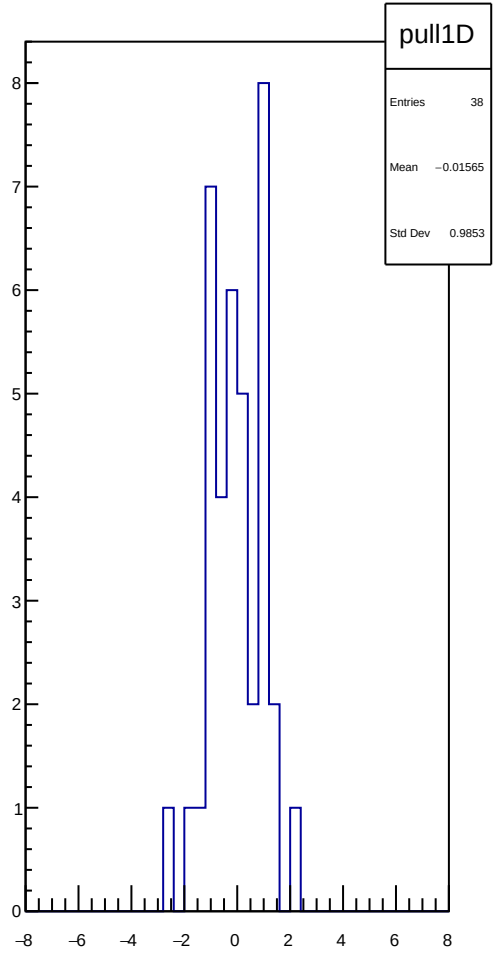

dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2.88e+04 / 37
p0 165.5 ± 0.1927
240
220
200
180
160
140
120
100
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

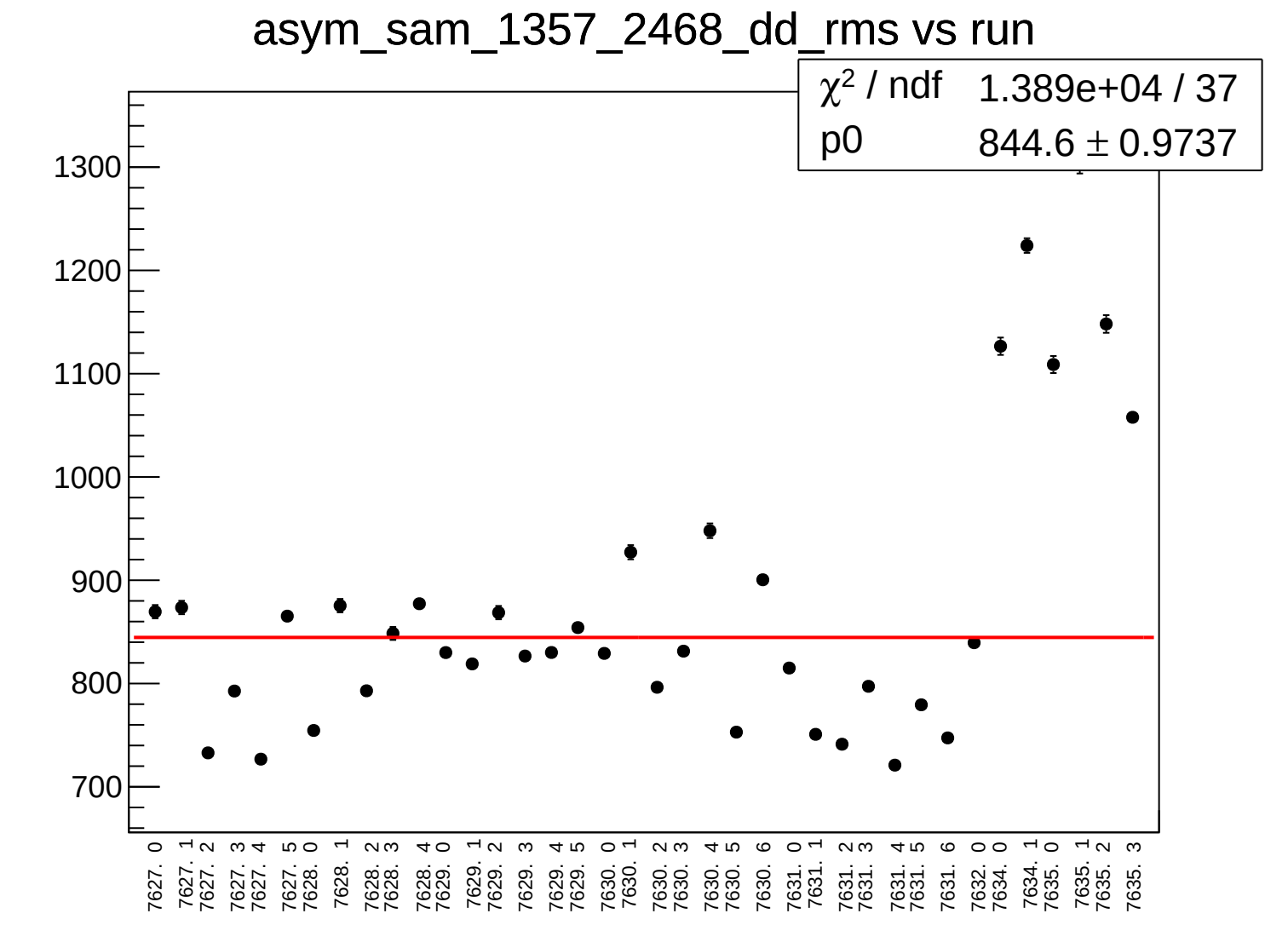

asym_sam_1357_2468_dd_correction_mean vs run
χ² / ndf 35.07 / 37
p0 −1200 ± 1346
40000
30000
20000
10000
0
−10000
−20000
−30000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 125
Std Dev 101.8
2
1
0
−1
−2

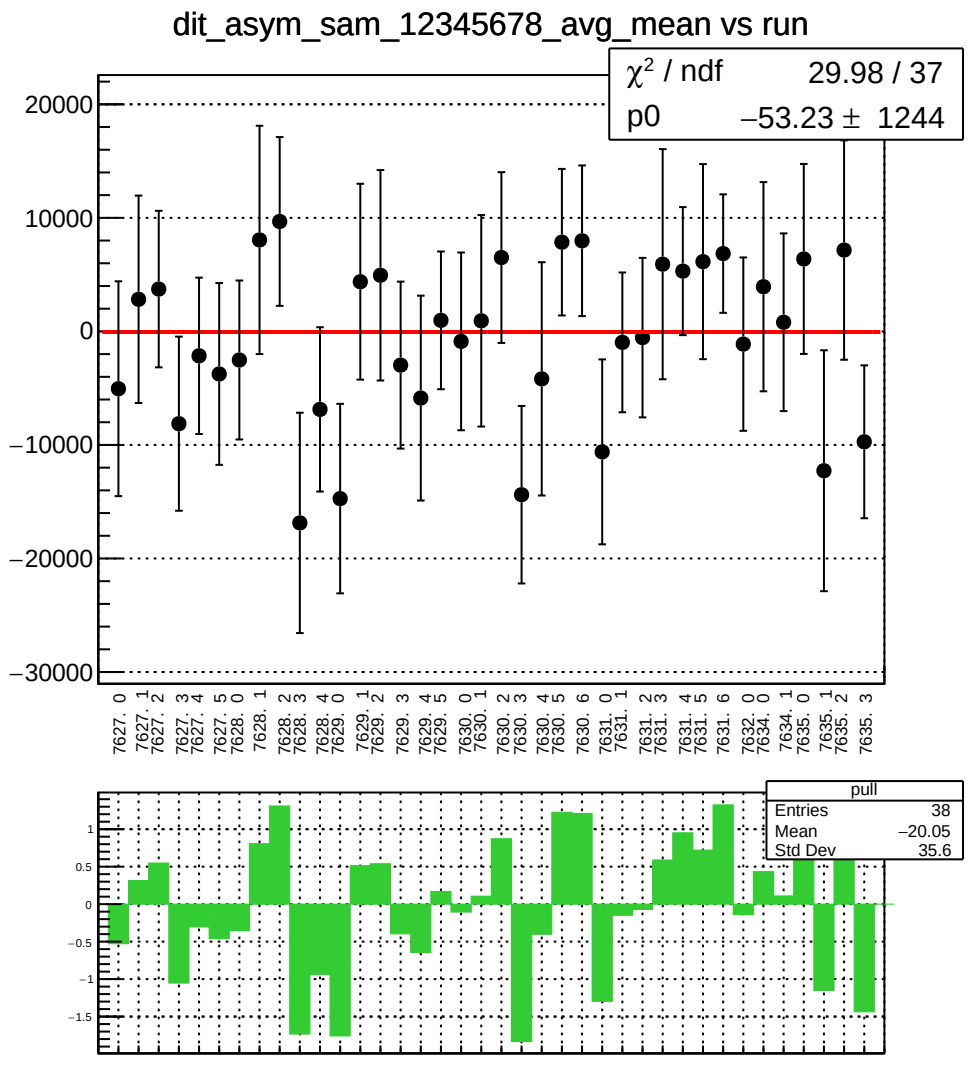

pull1D
Entries 38
Mean 0.01822
Std Dev 0.9605
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

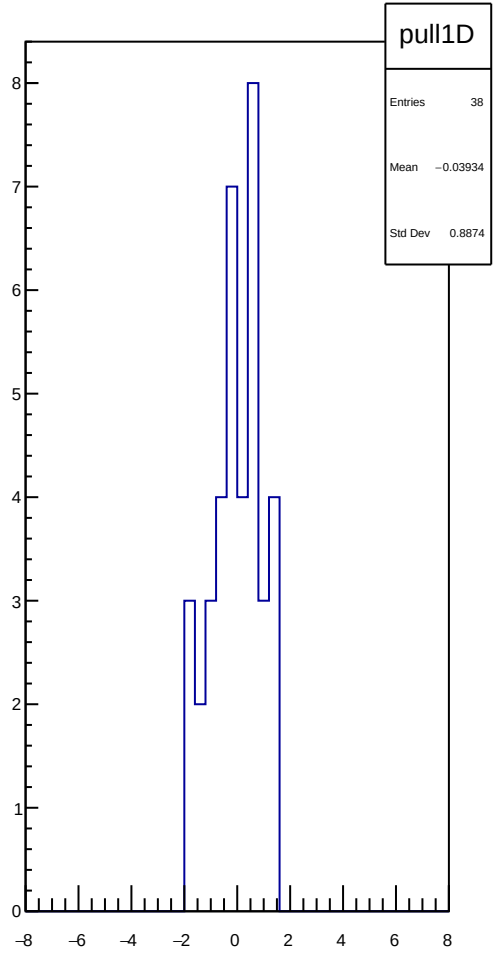

asym_sam_1357_2468_dd_correction_rms vs run
χ² / ndf 1.42e+04 / 37
p0 825.3 ± 0.9516
1300
1200
1100
1000
900
800
700
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

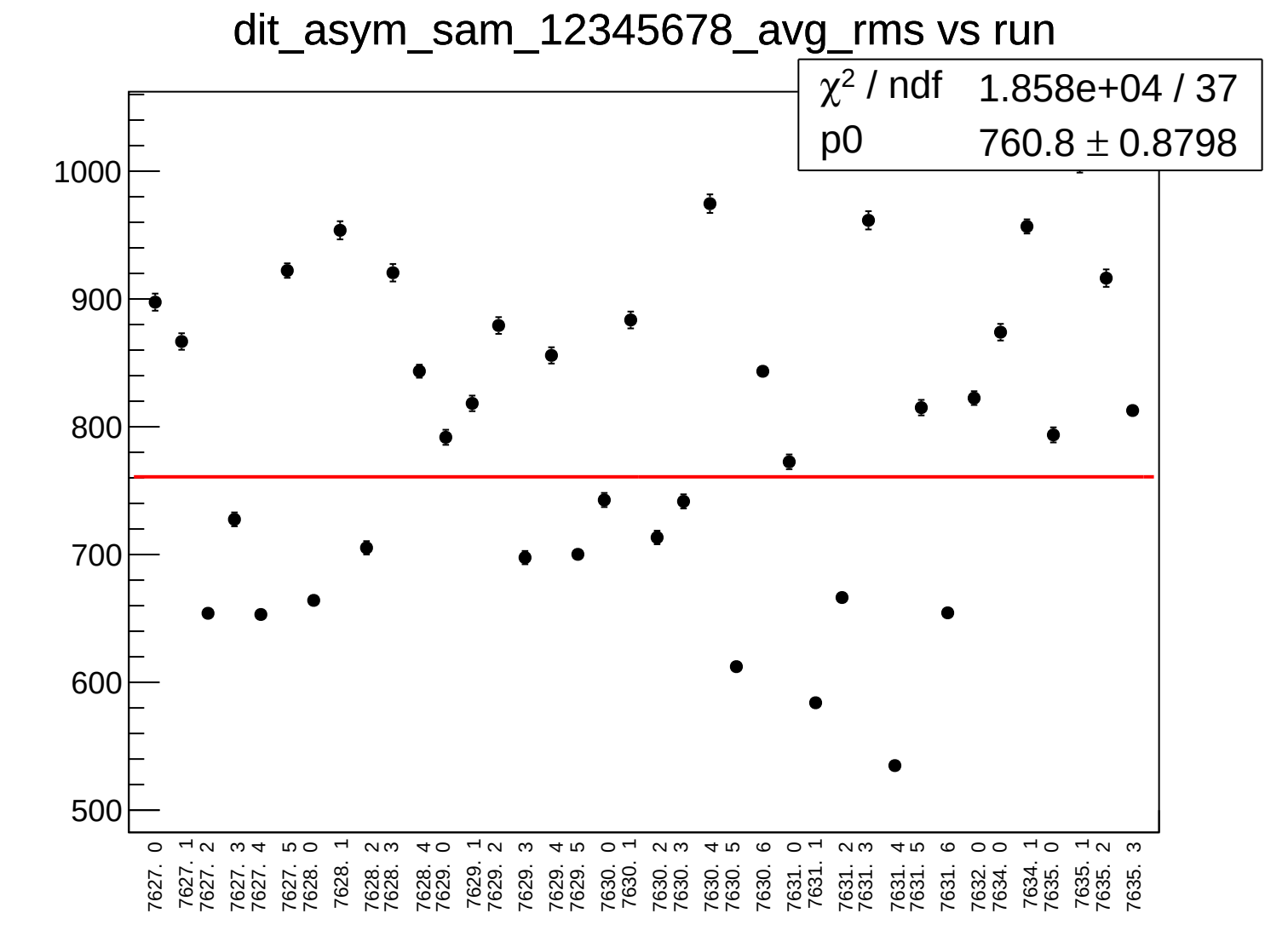

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 36.9 / 37
p0 1113 ± 1377
30000
20000
10000
0
−10000
−20000
−30000
−40000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 139.9
Std Dev 116.5
2
1
0
−1
−2

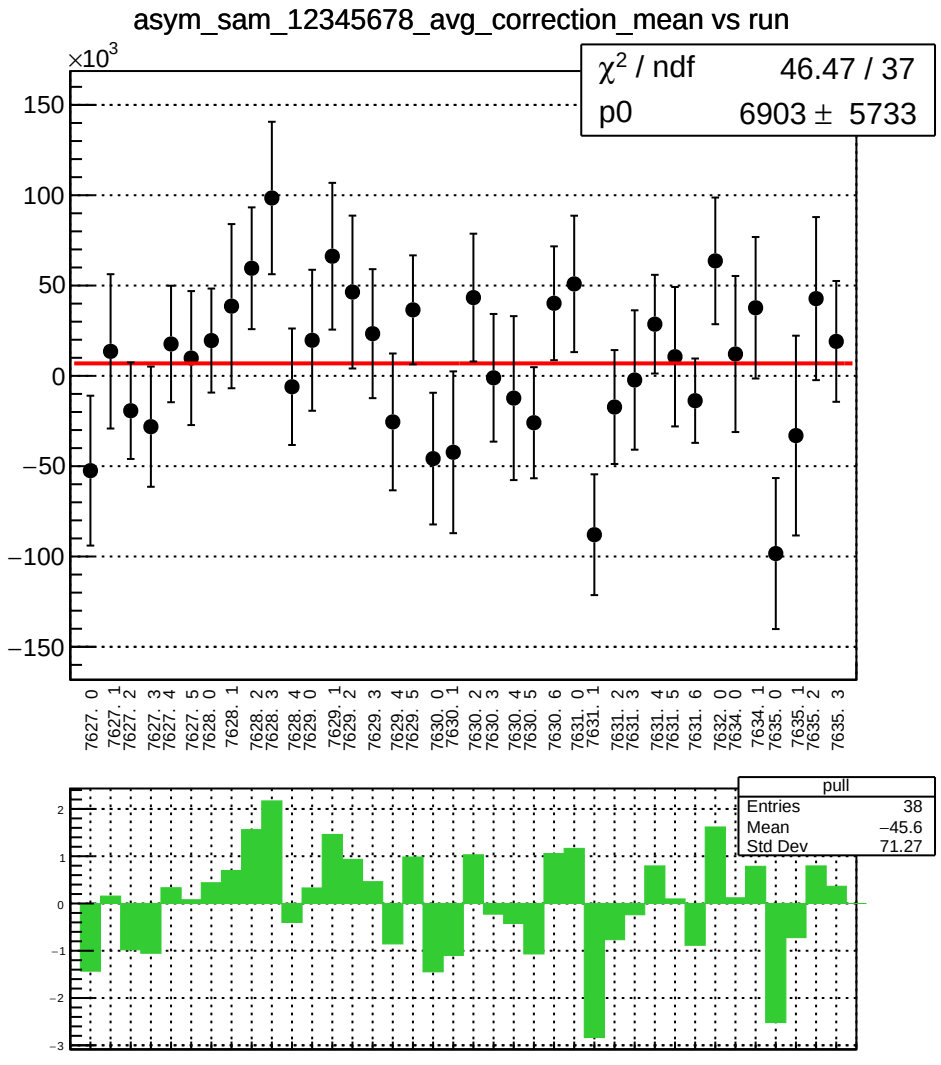

pull1D
Entries 38
Mean −0.01565
Std Dev 0.9853
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

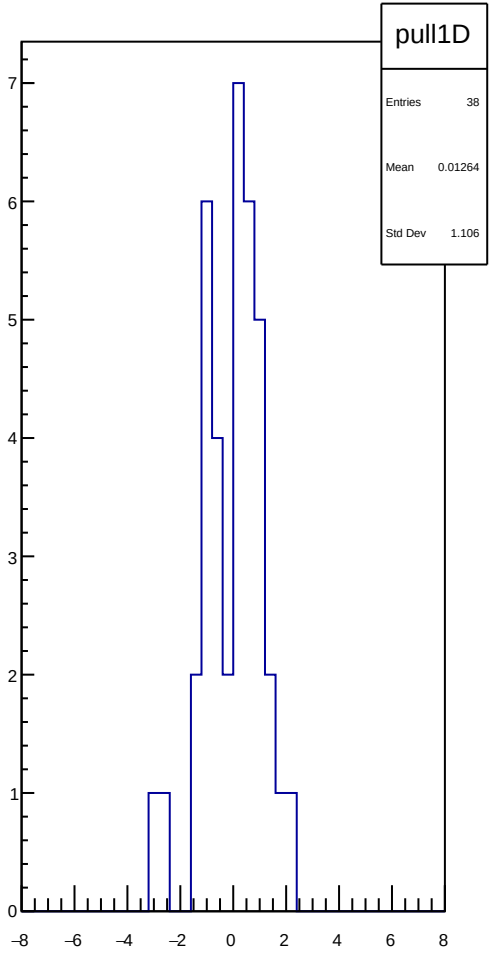

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.389e+04 / 37
p0 844.6 ± 0.9737
1300
1200
1100
1000
900
800
700
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

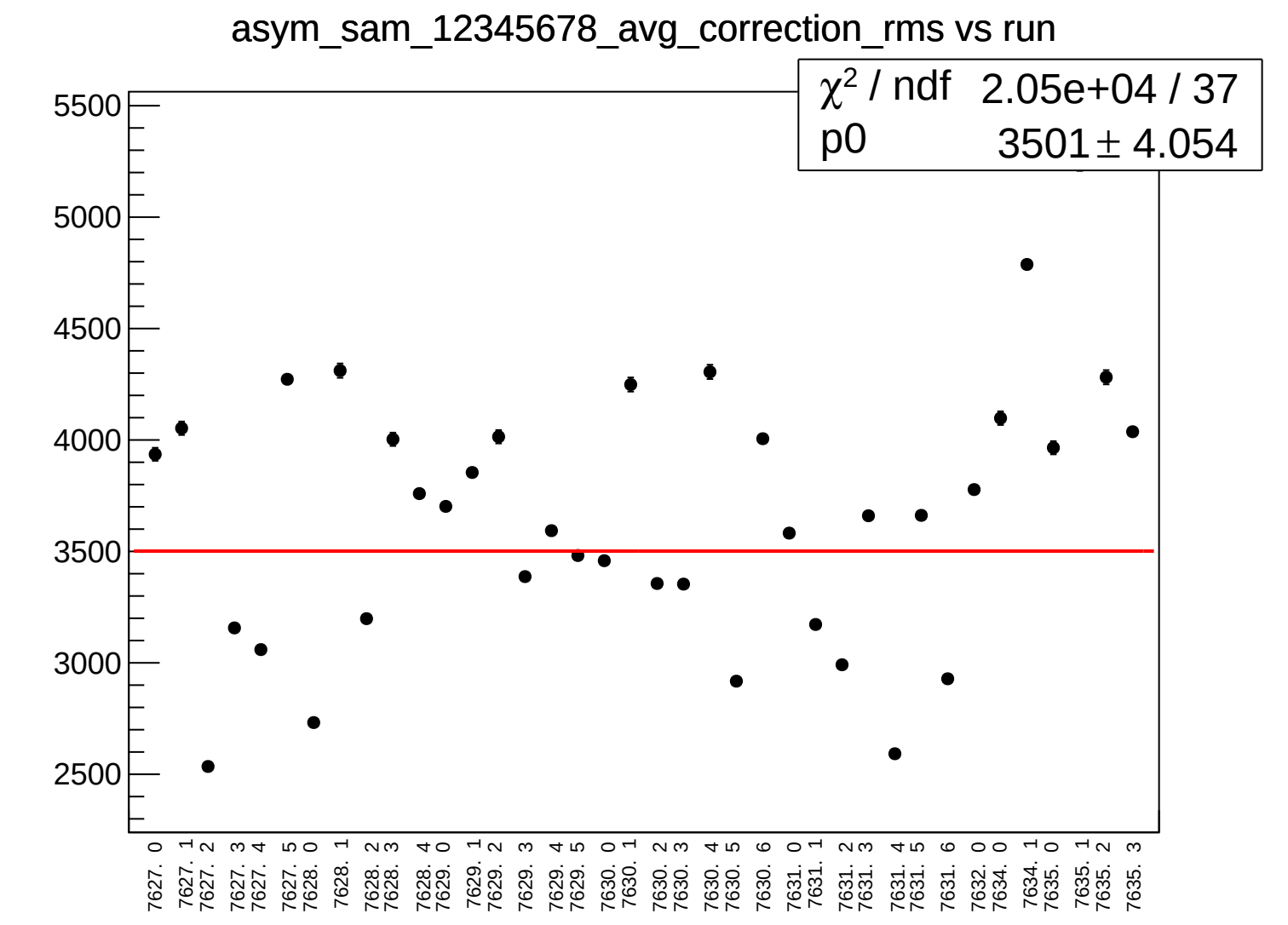

dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 29.98 / 37
p0 −53.23 ± 1244
20000
10000
0
−10000
−20000
−30000
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −20.05
Std Dev 35.6
1
0.5
0
−0.5
−1
−1.5

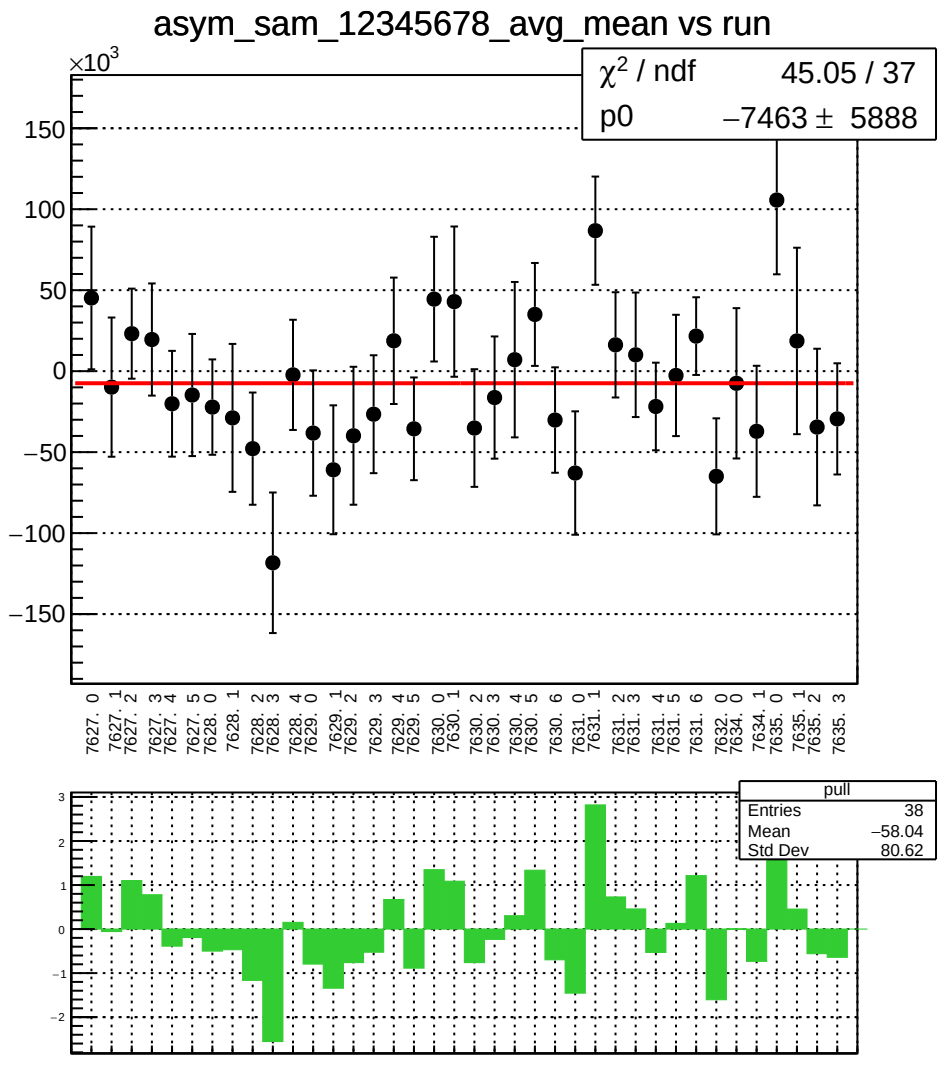

pull1D
Entries 38
Mean −0.03934
Std Dev 0.8874
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

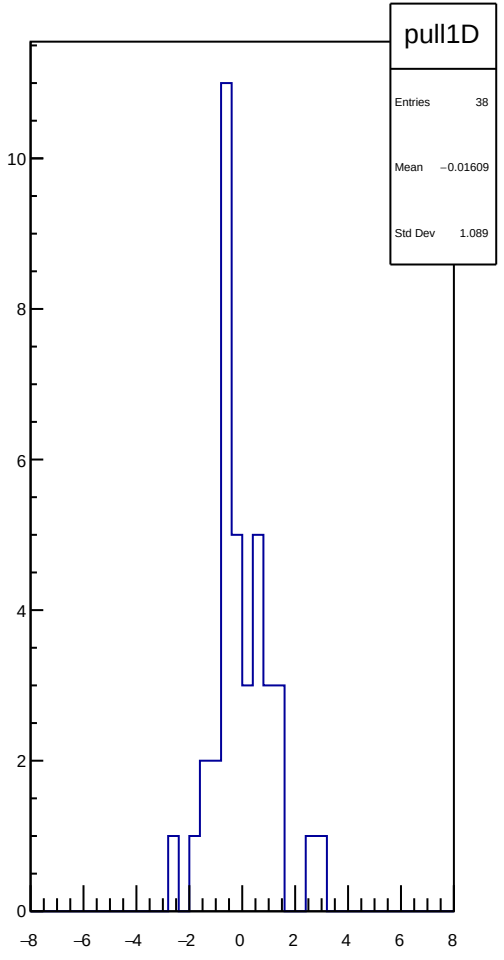

dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.858e+04 / 37
p0 760.8 ± 0.8798
1000
900
800
700
600
500
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

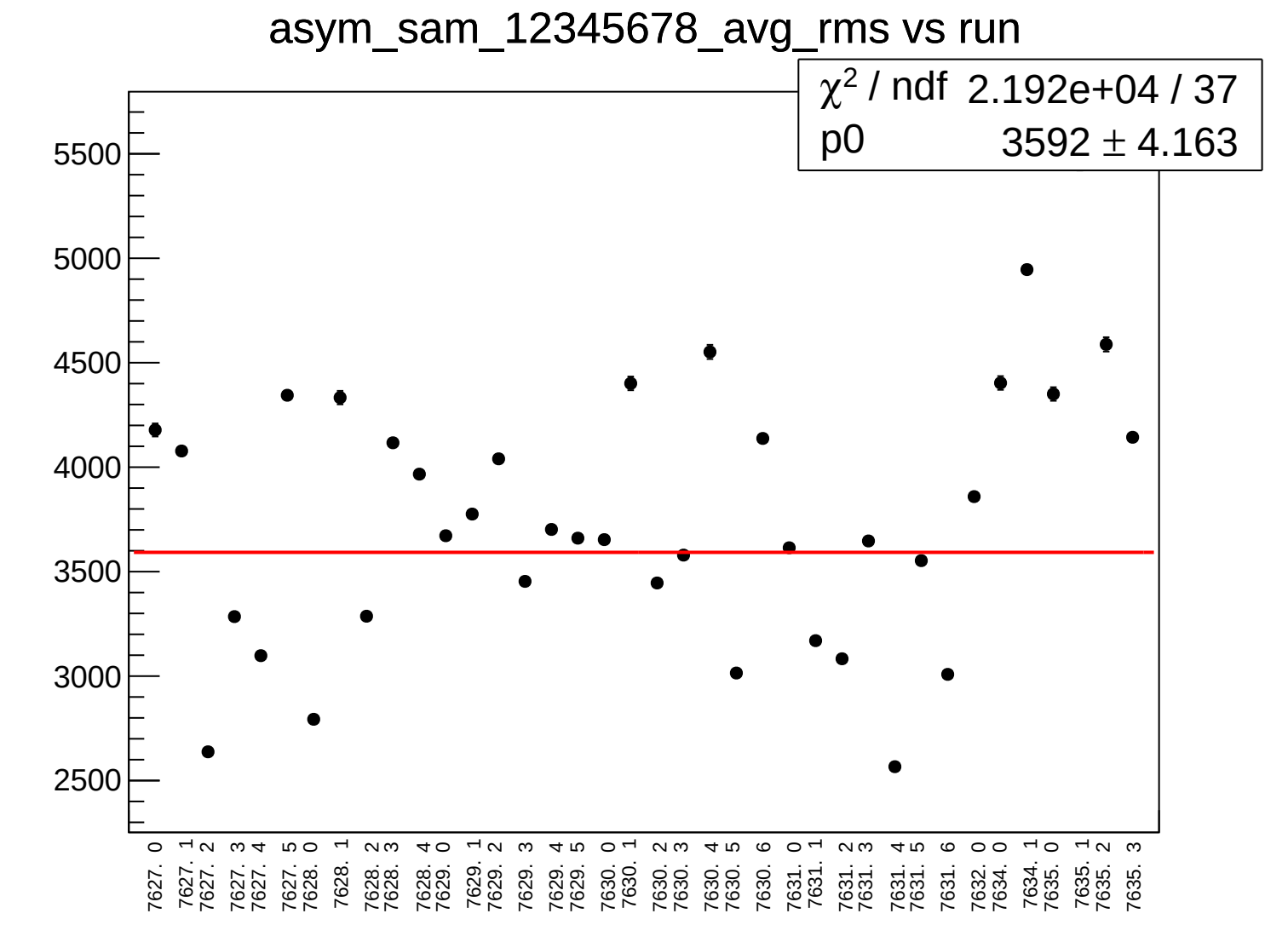

asym_sam_12345678_avg_correction_mean vs run
×10^3
χ² / ndf 46.47 / 37
p0 6903 ± 5733
150
100
50
0
−50
−100
−150
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 4
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −45.6
Std Dev 71.27
2
1
0
−1
−2
−3

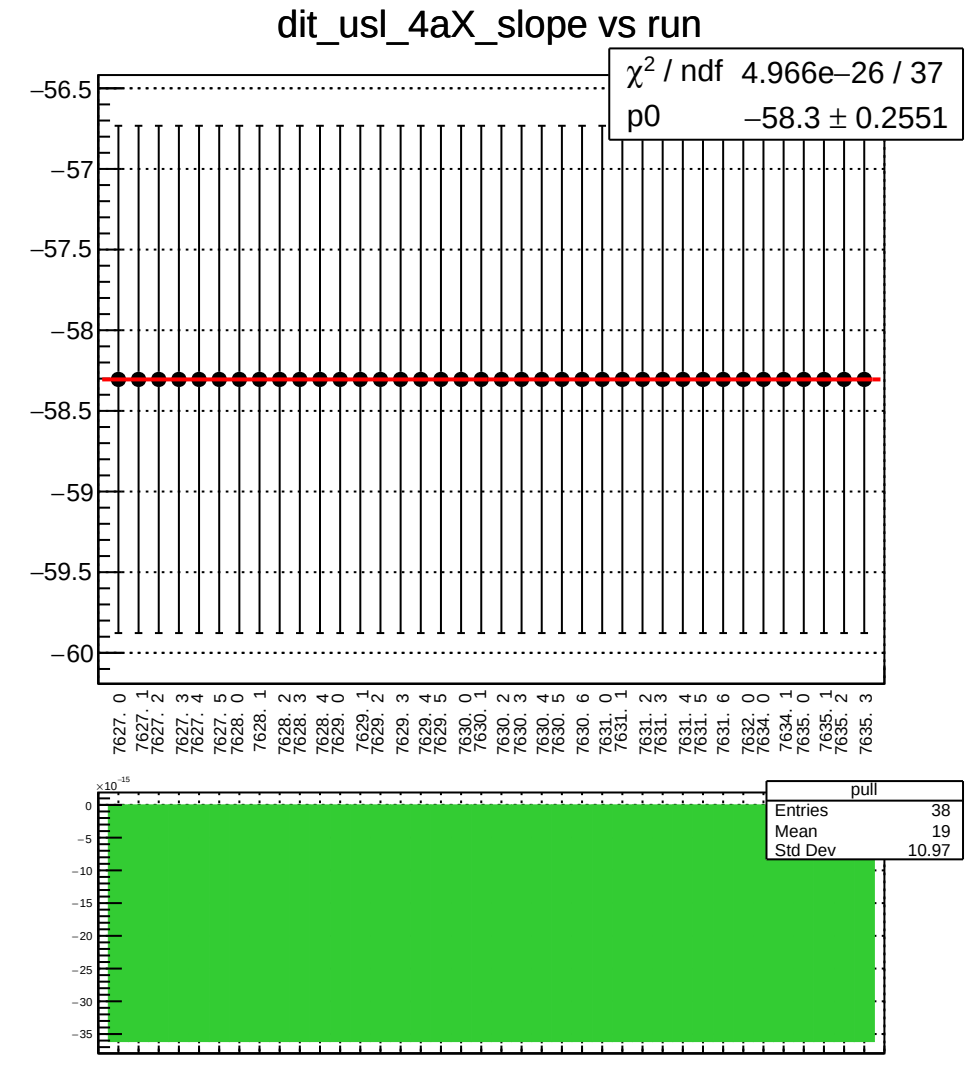

pull1D
Entries 38
Mean 0.01264
Std Dev 1.106
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

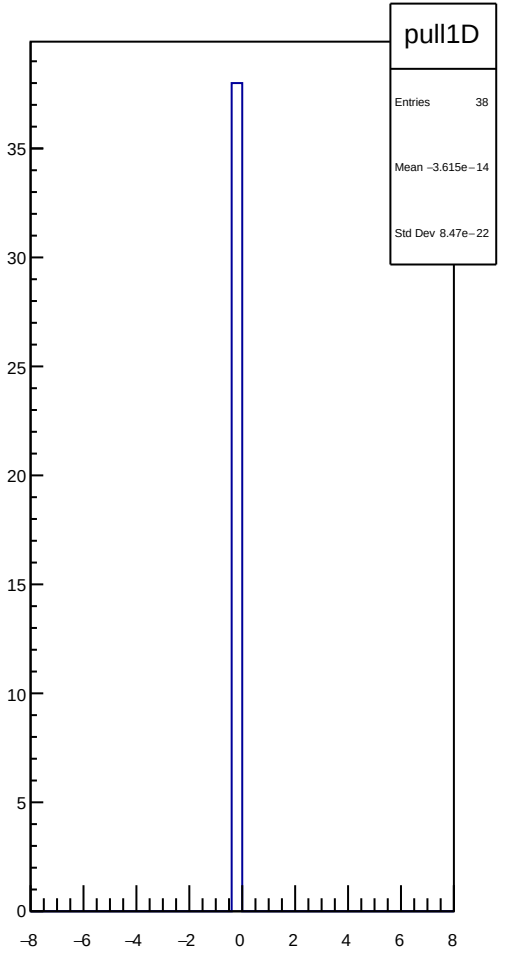

asym_sam_12345678_avg_correction_rms vs run
χ² / ndf 2.05e+04 / 37
p0 3501 ± 4.054
5500
5000
4500
4000
3500
3000
2500
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

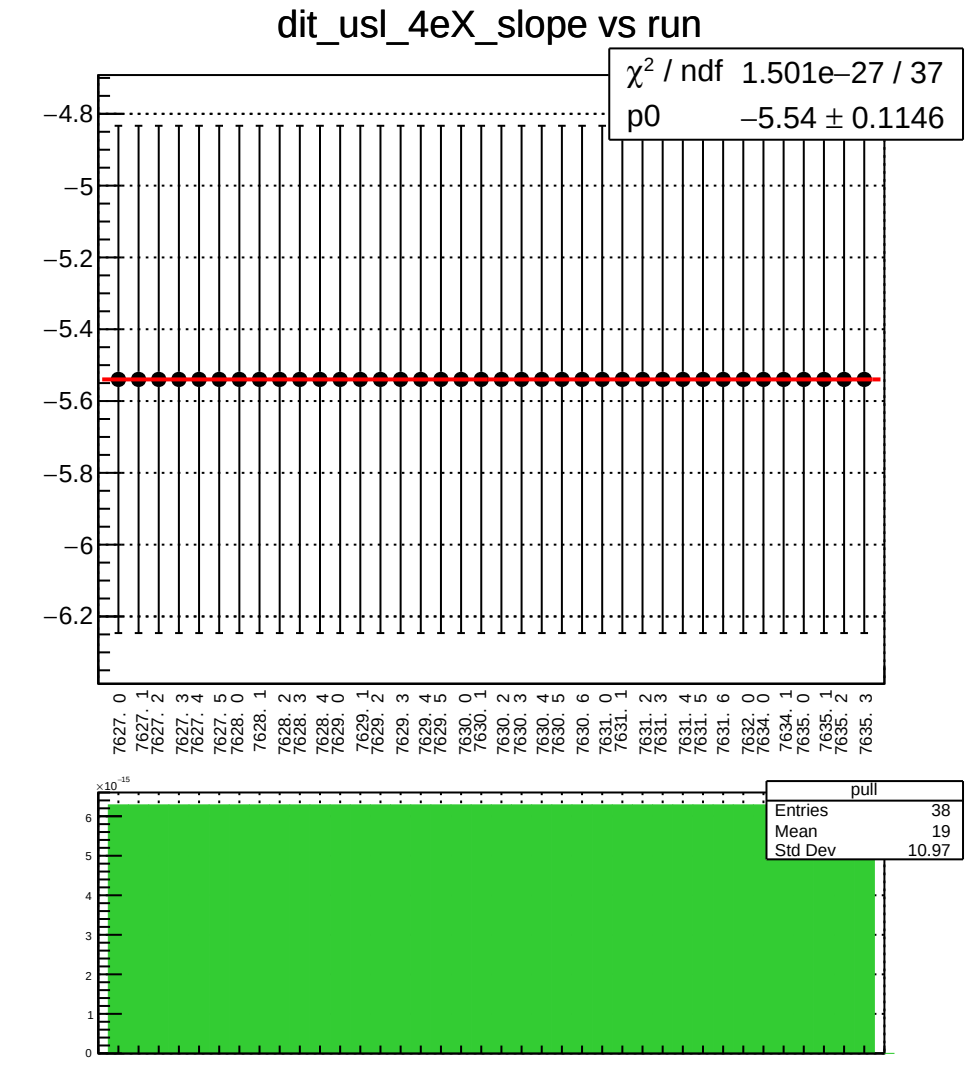

asym_sam_12345678_avg_mean vs run
×10^3
χ² / ndf 45.05 / 37
p0 −7463 ± 5888
150
100
50
0
−50
−100
−150
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −58.04
Std Dev 80.62
3
2
1
0
−1
−2

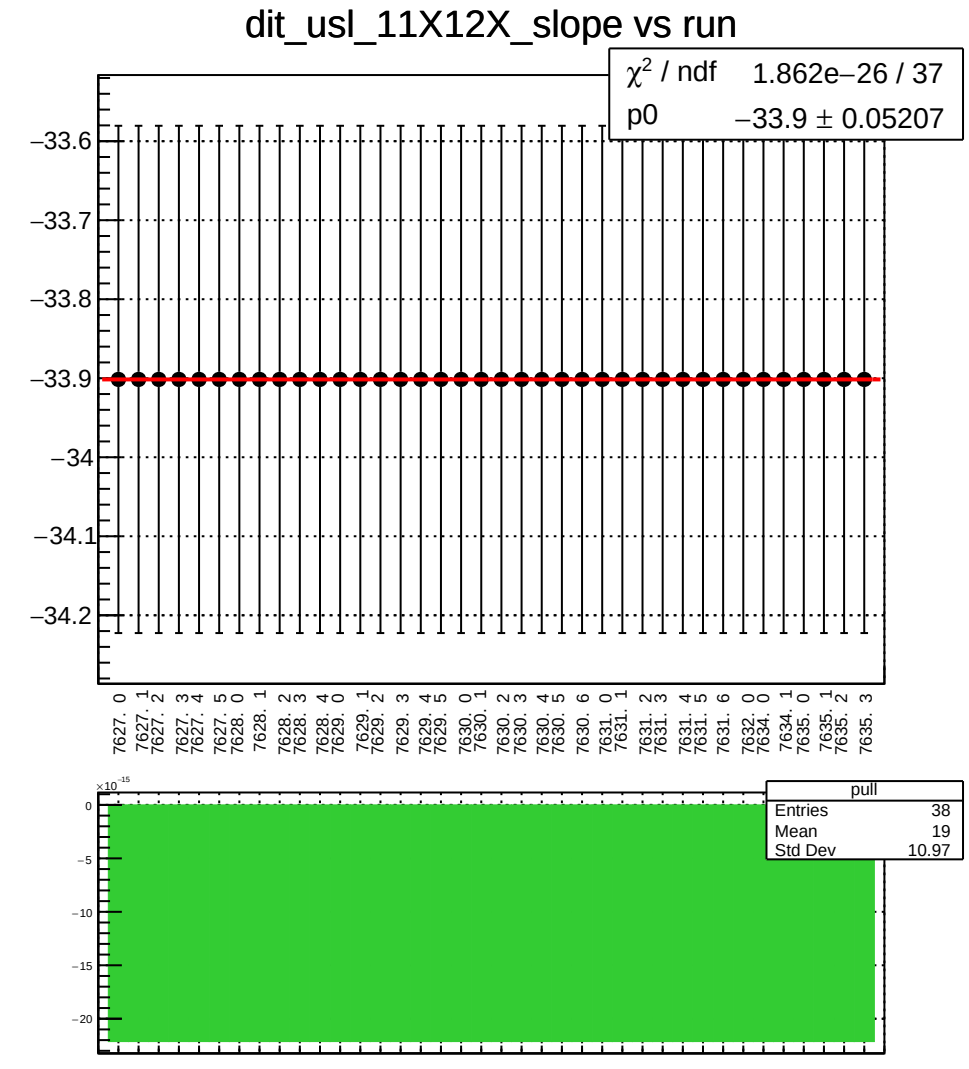

pull1D
Entries 38
Mean −0.01609
Std Dev 1.089
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

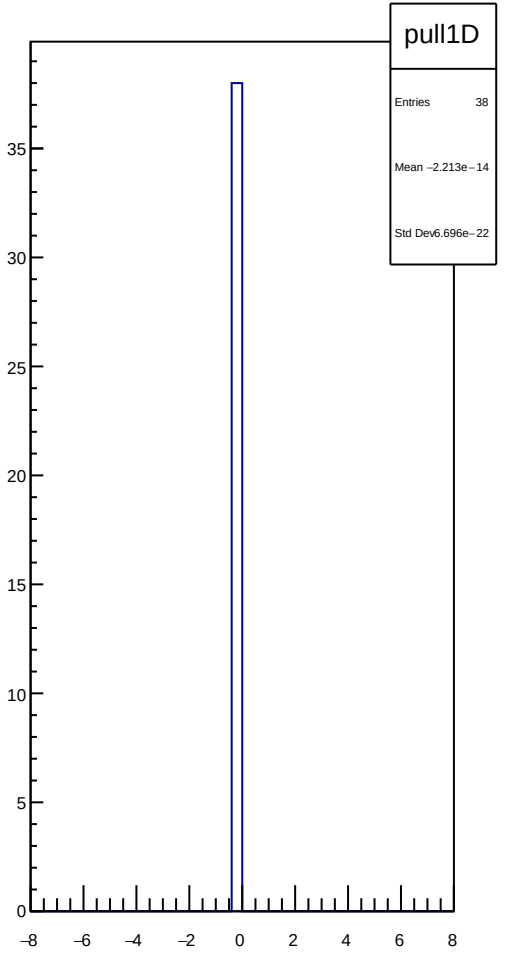

asym_sam_12345678_avg_rms vs run
χ² / ndf 2.192e+04 / 37
p0 3592 ± 4.163
5500
5000
4500
4000
3500
3000
2500
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3

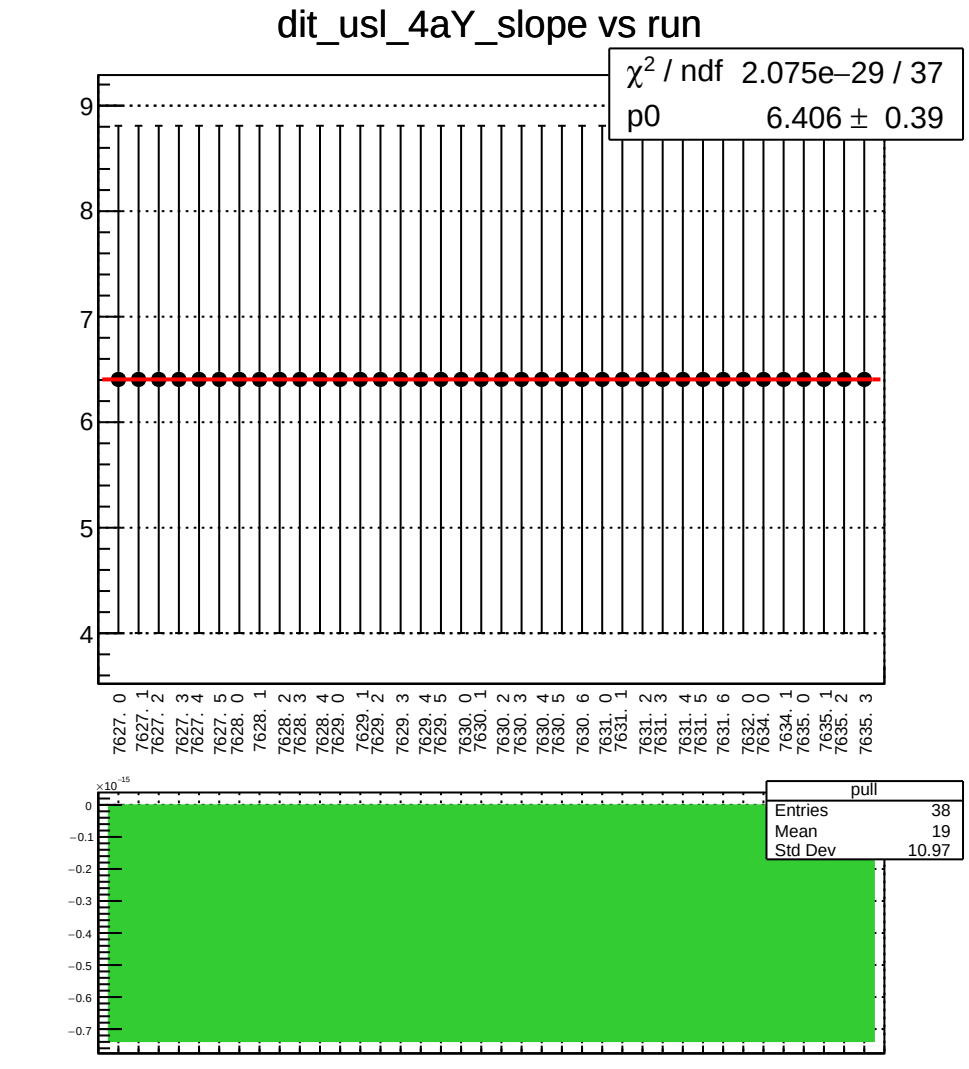

dit_usl_4aX_slope vs run
χ² / ndf 4.966e−26 / 37
p0 −58.3 ± 0.2551
−56.5
−57
−57.5
−58
−58.5
−59
−59.5
−60
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
×10⁻�¹⁵
0
−5
−10
−15
−20
−25
−30
−35
pull
Entries 38
Mean 19
Std Dev 10.97

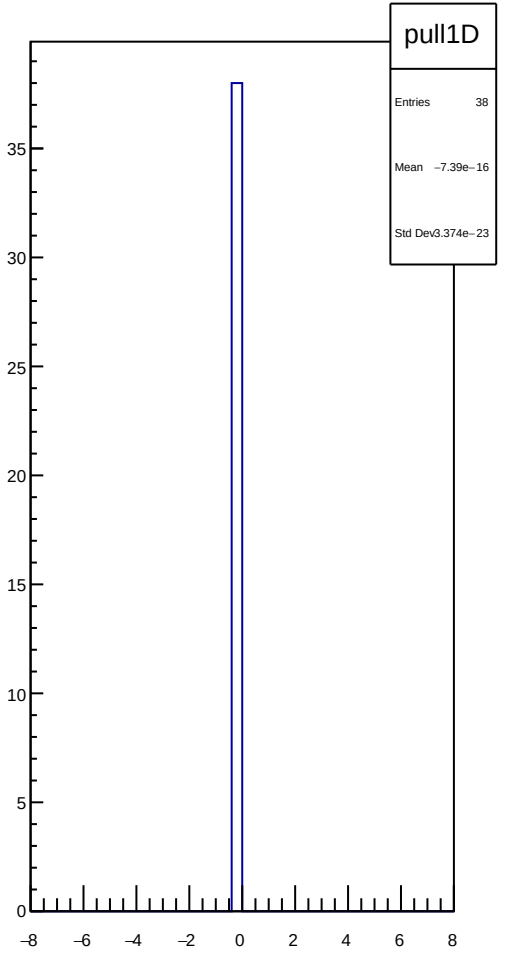

pull1D
Entries 38
Mean −3.615e−14
Std Dev 8.47e−22
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

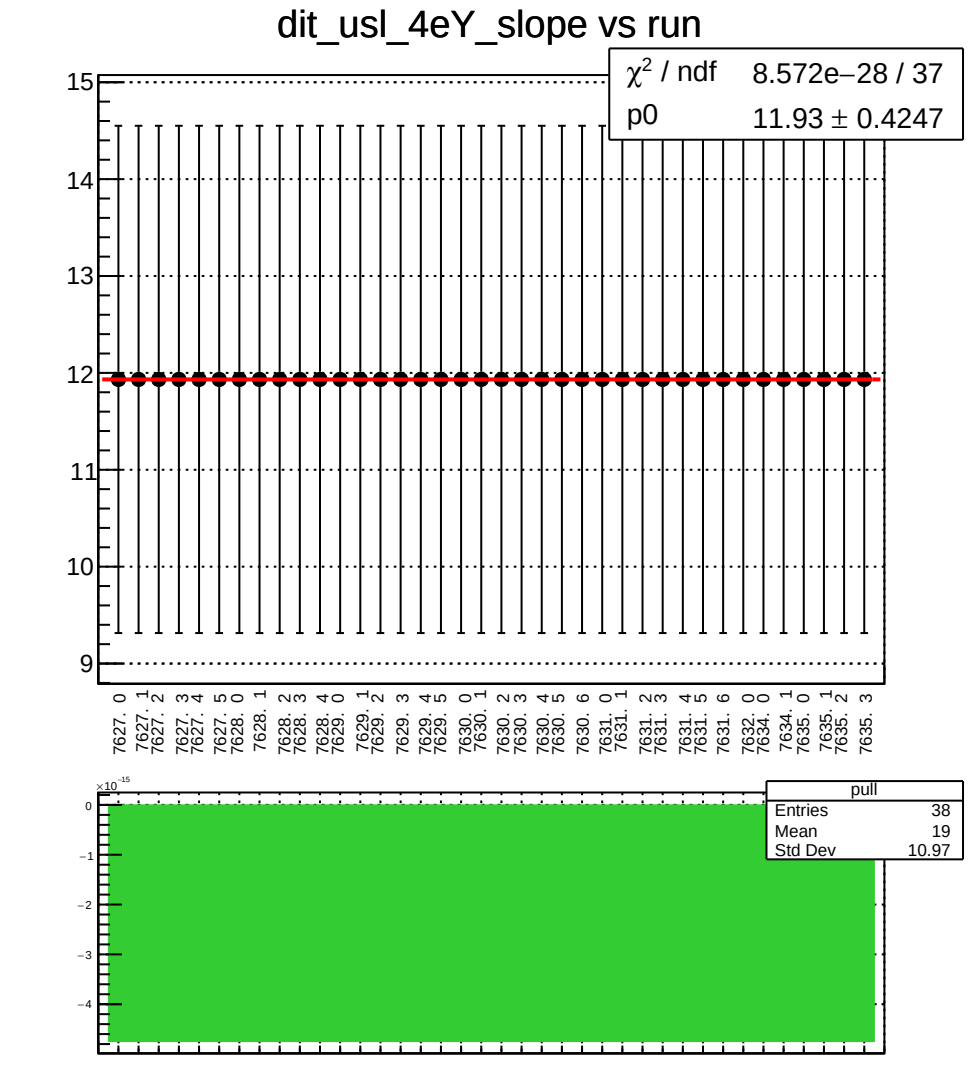

dit_usl_4eX_slope vs run
χ² / ndf 1.501e−27 / 37
p0 −5.54 ± 0.1146
−4.8
−5
−5.2
−5.4
−5.6
−5.8
−6
−6.2
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
×10⁻¹⁵
pull
Entries 38
Mean 19
Std Dev 10.97
pull1D
Entries 38
Mean 6.286e−15
Std Dev1.834e−22

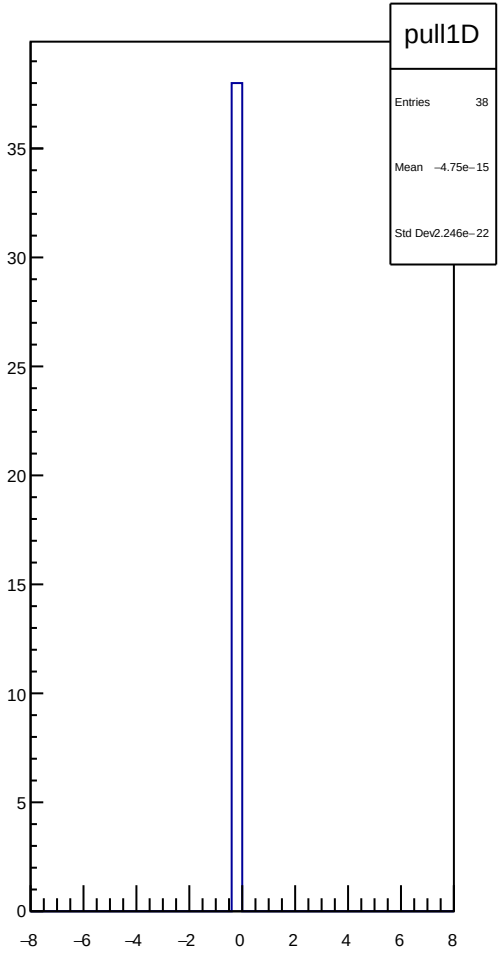

dit_usl_11X12X_slope vs run
χ² / ndf 1.862e−26 / 37
p0 −33.9 ± 0.05207
−33.6
−33.7
−33.8
−33.9
−34
−34.1
−34.2
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
×10⁻�15
0
−5
−10
−15
−20
pull
Entries 38
Mean 19
Std Dev 10.97

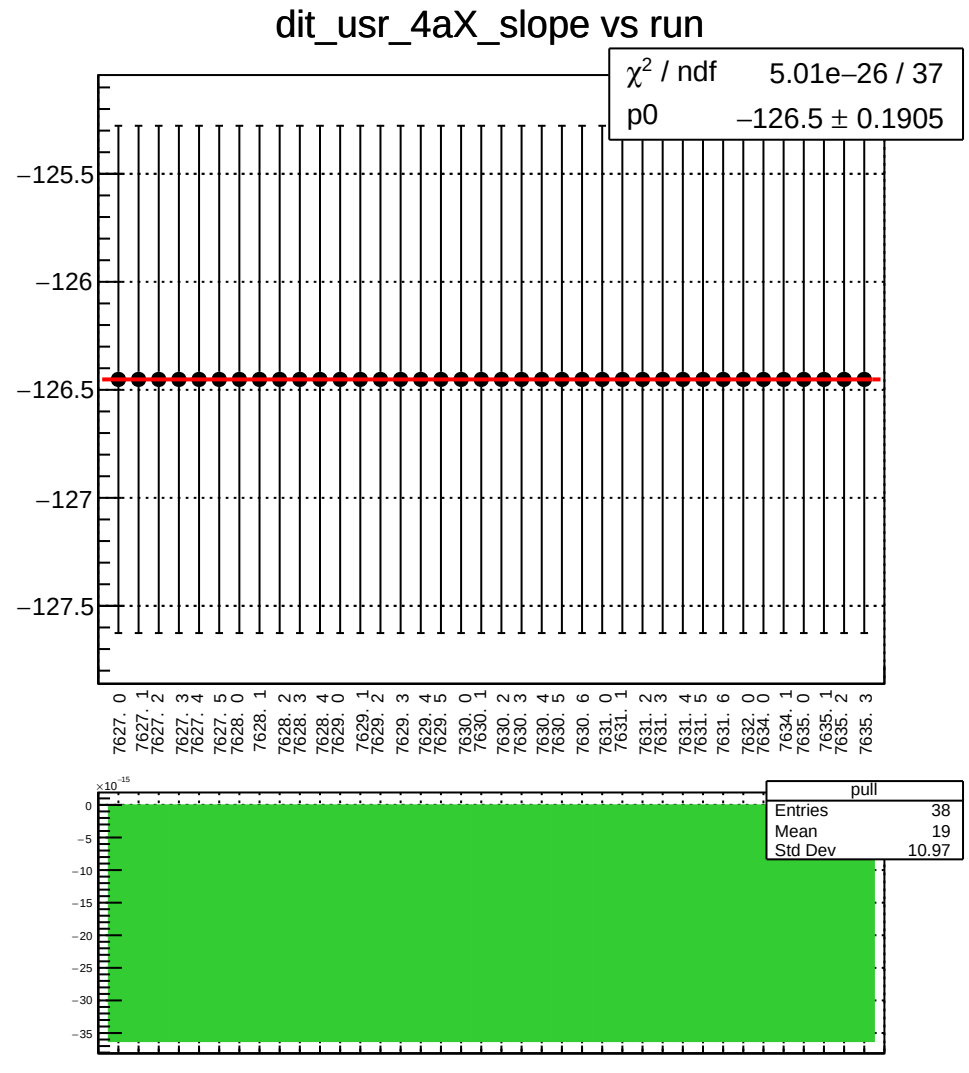

pull1D
Entries 38
Mean −2.213e−14
Std Dev 6.696e−22
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

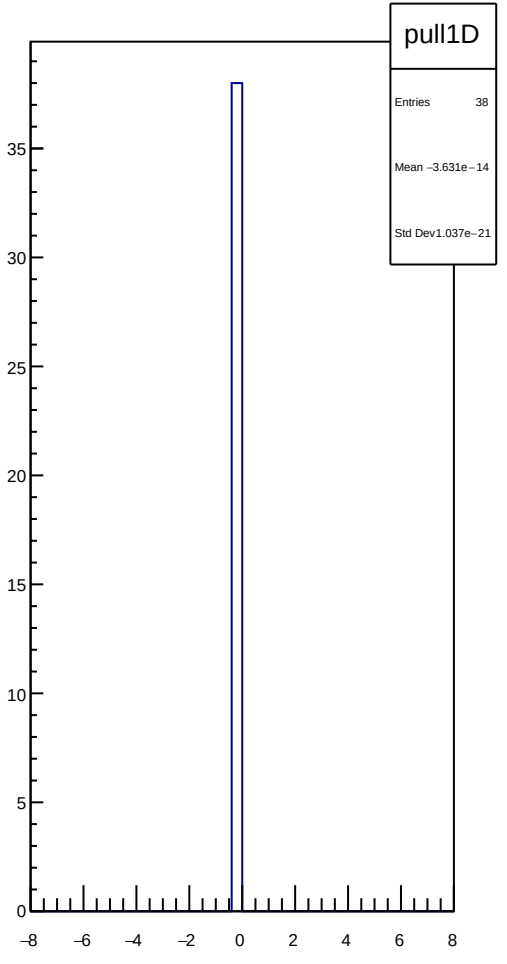

dit_usl_4aY_slope vs run
χ² / ndf 2.075e−29 / 37
p0 6.406 ± 0.39
9
8
7
6
5
4
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
×10⁻�15
0
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
pull
Entries 38
Mean 19
Std Dev 10.97

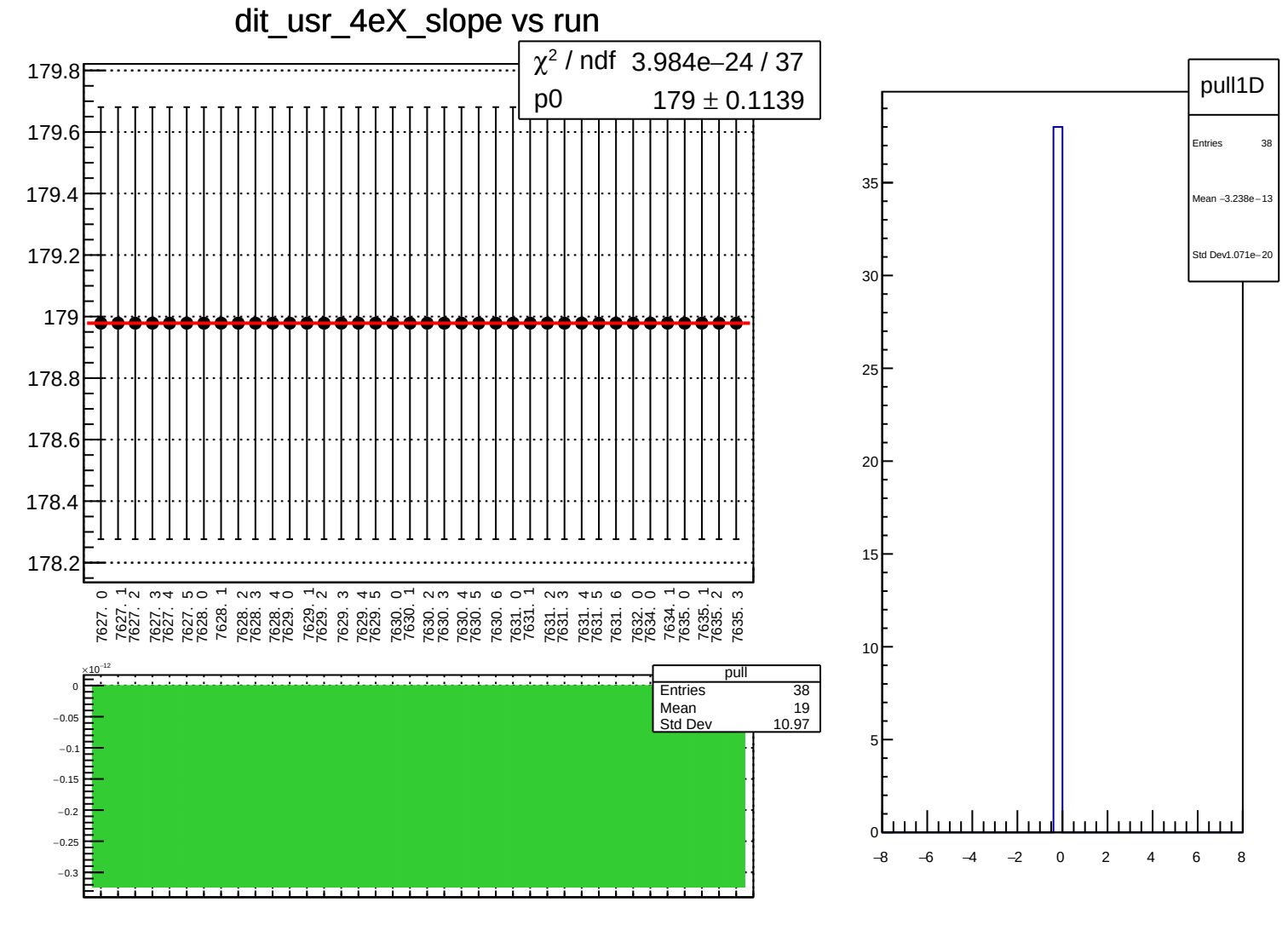

pull1D
Entries 38
Mean −7.39e−16
Std Dev3.374e−23
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

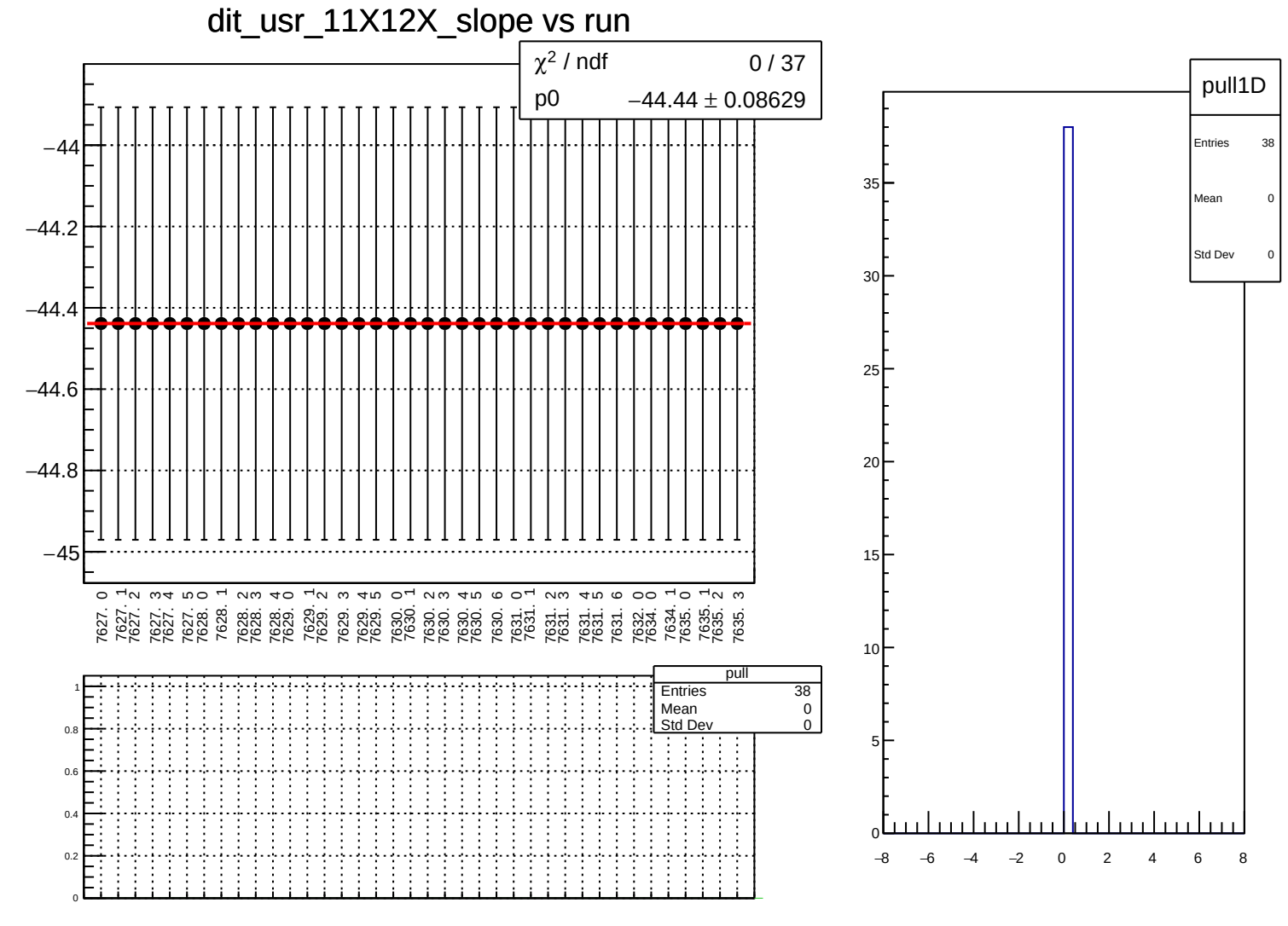

dit_usl_4eY_slope vs run
χ² / ndf 8.572e−28 / 37
p0 11.93 ± 0.4247
pull
Entries 38
Mean 19
Std Dev 10.97

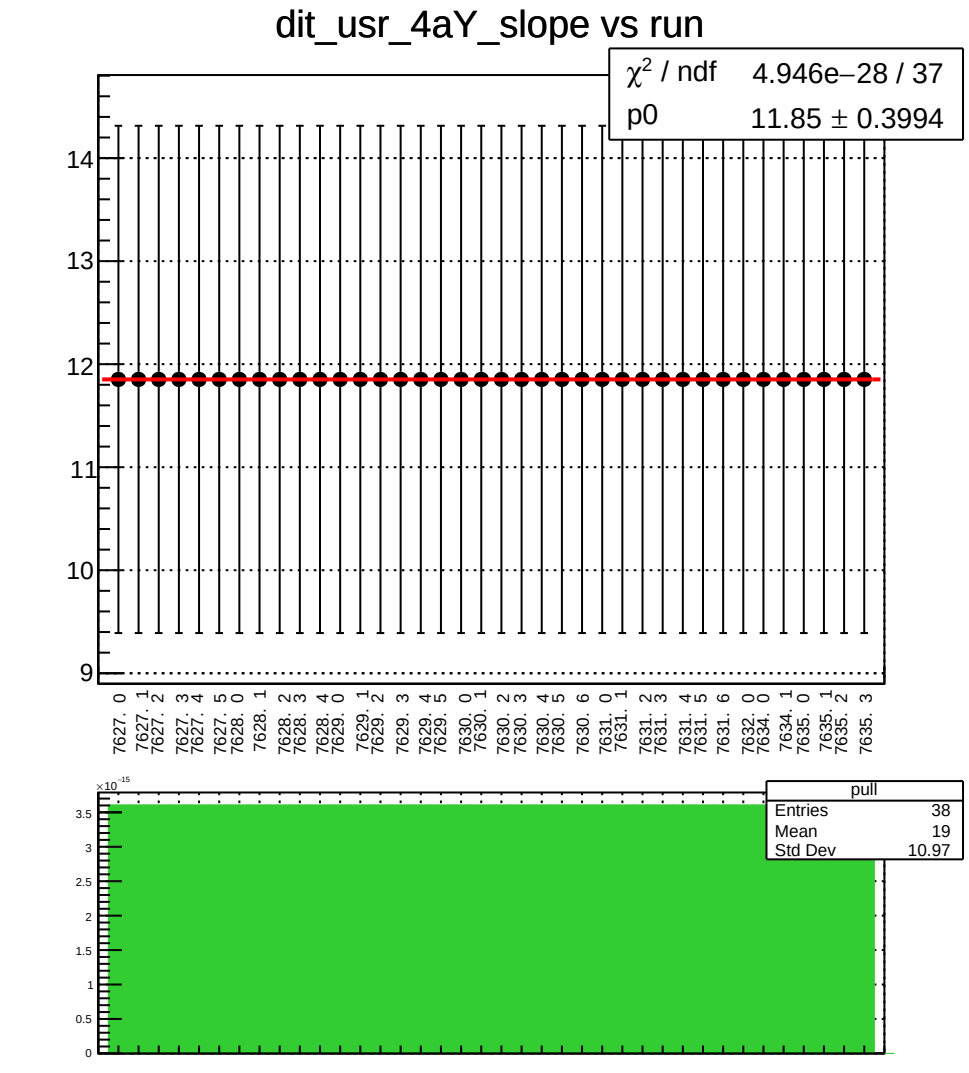

pull1D
Entries 38
Mean −4.75e−15
Std Dev 2.246e−22

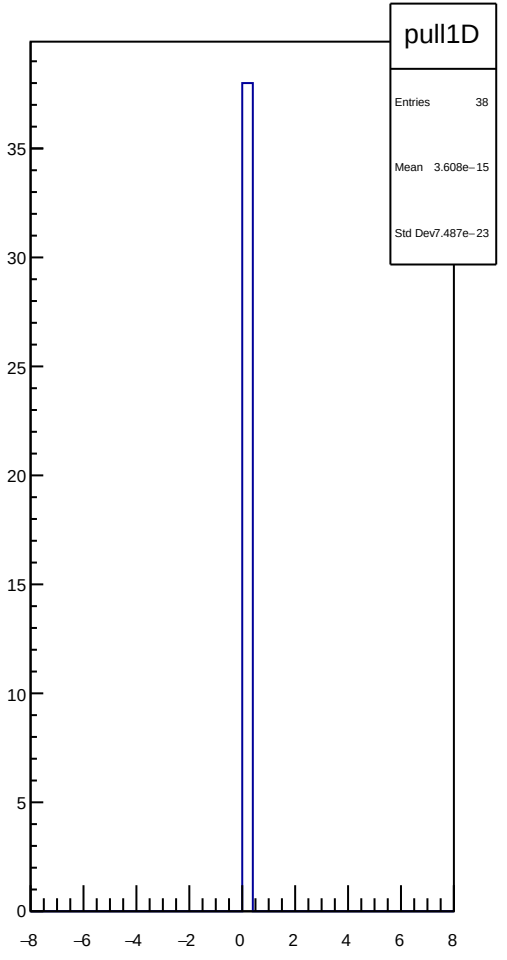

dit_usr_4aX_slope vs run
χ² / ndf 5.01e−26 / 37
p0 −126.5 ± 0.1905
−125.5
−126
−126.5
−127
−127.5
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
×10⁻¹⁵
0
−5
−10
−15
−20
−25
−30
−35
pull
Entries 38
Mean 19
Std Dev 10.97

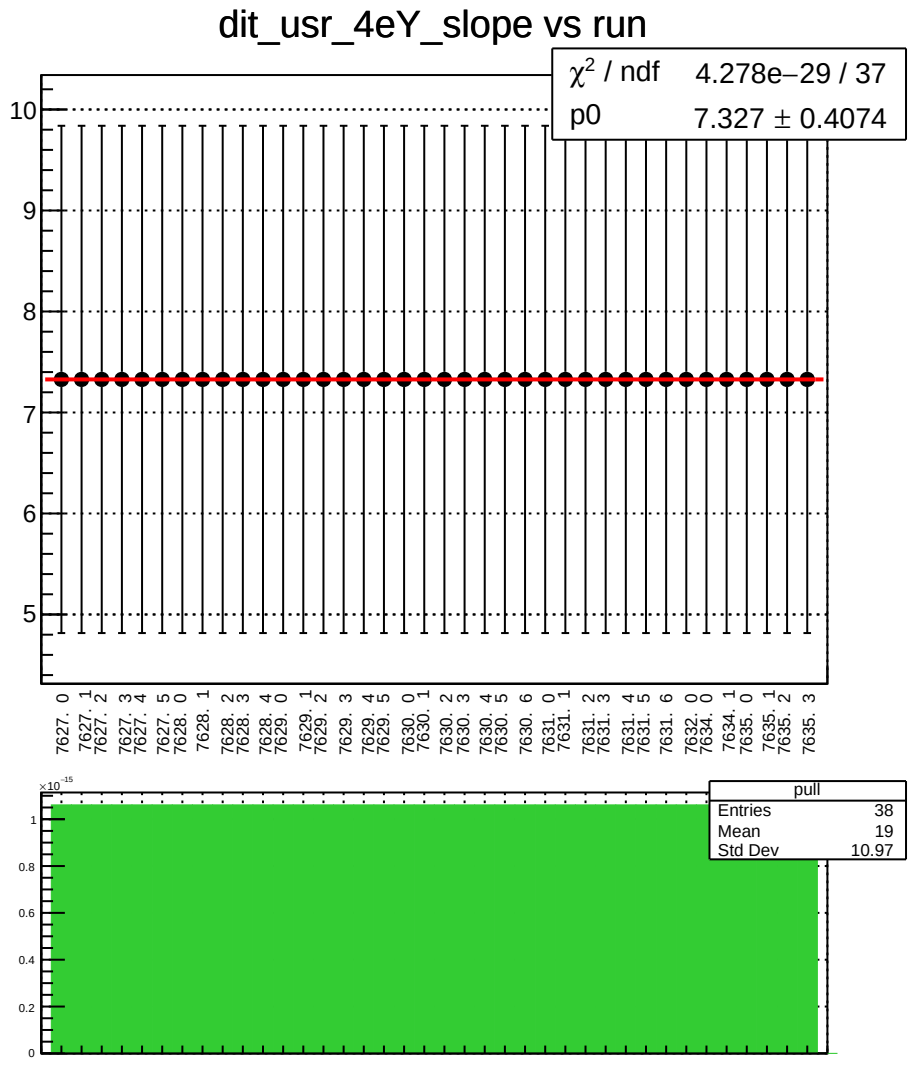

pull1D
Entries 38
Mean −3.631e−14
Std Dev1.037e−21
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

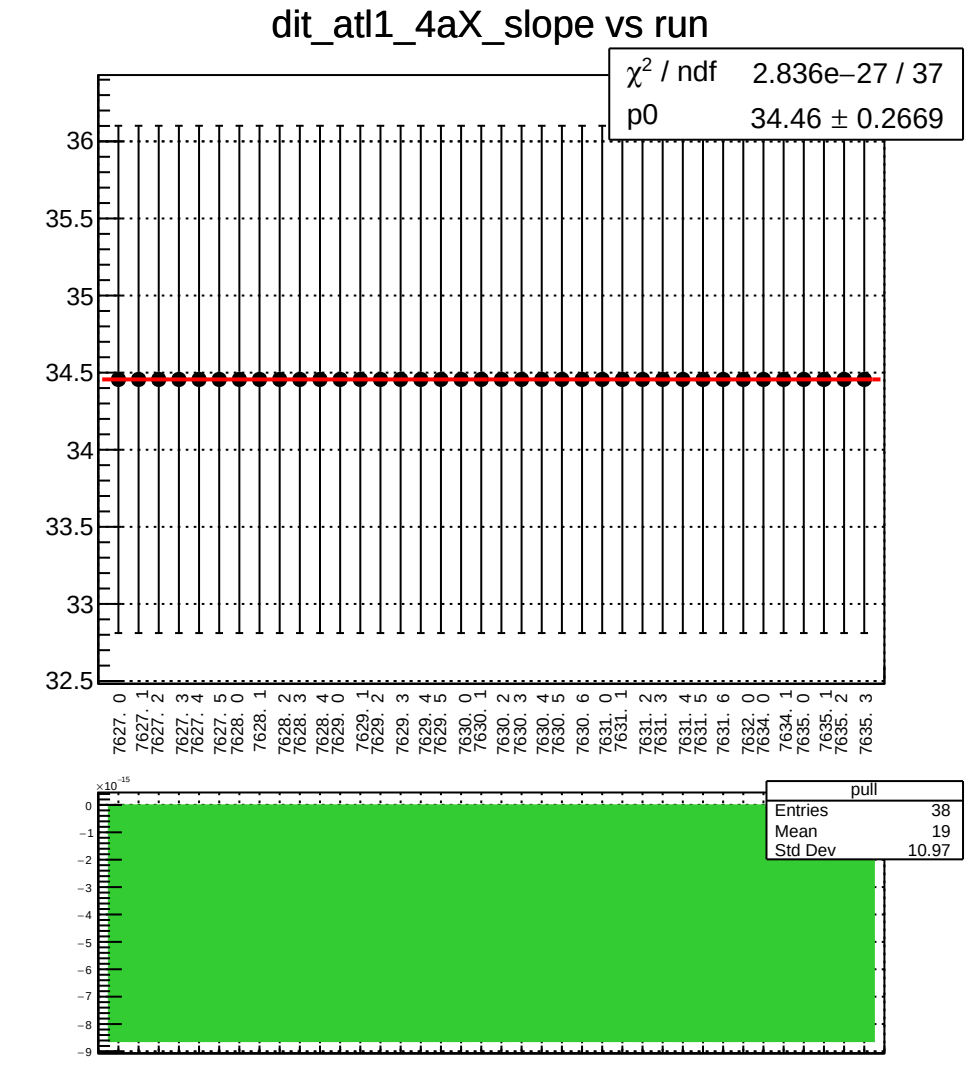

dit_usr_4eX_slope vs run
χ^2 / ndf 3.984e−24 / 37
p0 179 ± 0.1139
179.8
179.6
179.4
179.2
179
178.8
178.6
178.4
178.2
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
×10⁻¹²
0
−0.05
−0.1
−0.15
−0.2
−0.25
−0.3
pull
Entries 38
Mean 19
Std Dev 10.97
pull1D
Entries 38
Mean −3.238e−13
Std Dev1.071e−20
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

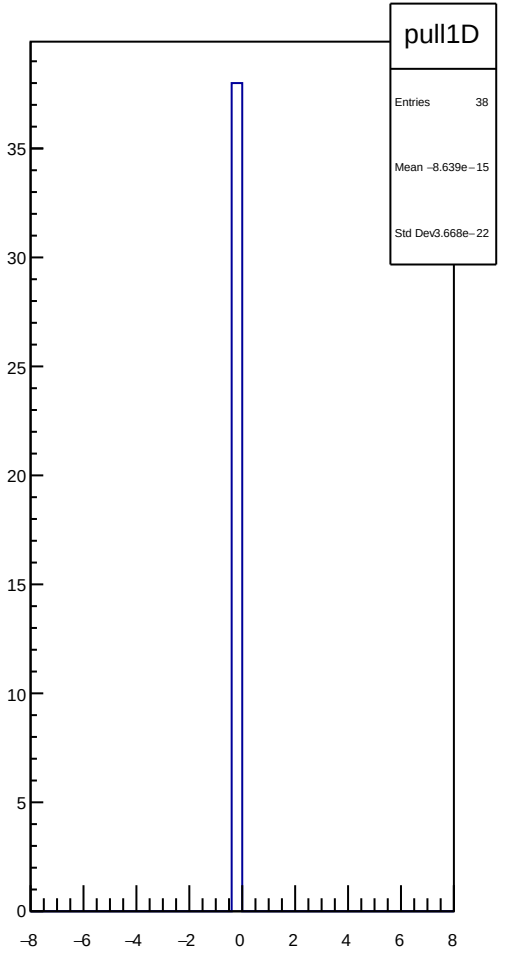

dit_usr_11X12X_slope vs run
χ² / ndf 0 / 37
p0 −44.44 ± 0.08629
−44
−44.2
−44.4
−44.6
−44.8
−45
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 38
Mean 0
Std Dev 0
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

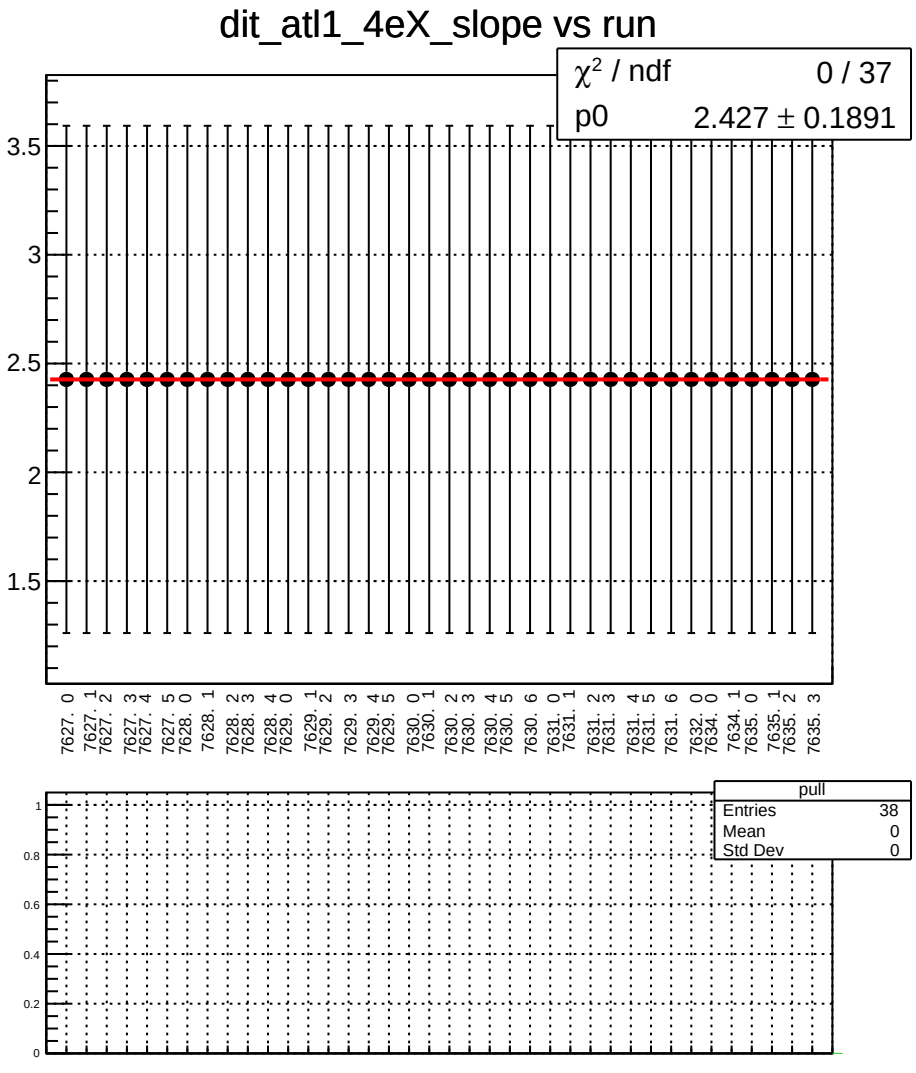

dit_usr_4aY_slope vs run
χ² / ndf 4.946e−28 / 37
p0 11.85 ± 0.3994
14
13
12
11
10
9
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
×10⁻�15
3.5
3
2.5
2
1.5
1
0.5
0
pull
Entries 38
Mean 19
Std Dev 10.97

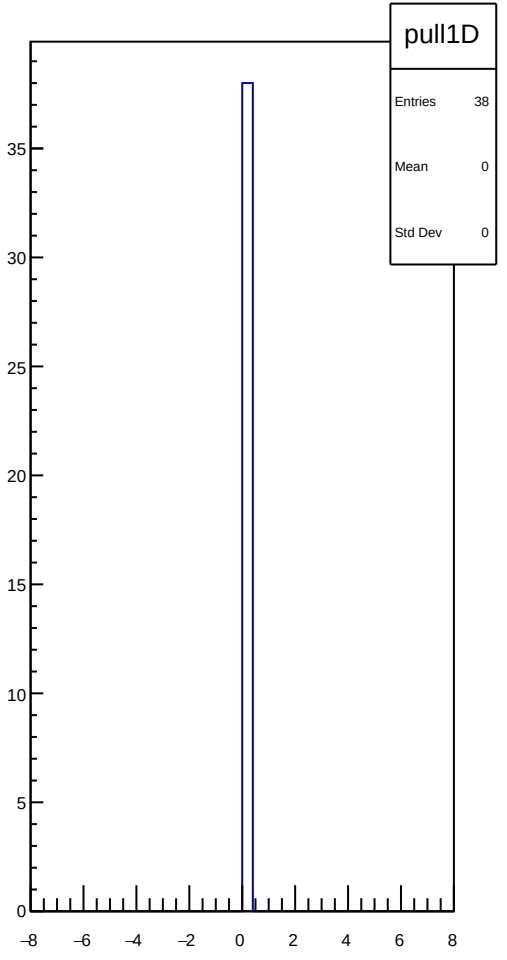

pull1D
Entries 38
Mean 3.608e−15
Std Dev7.487e−23
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

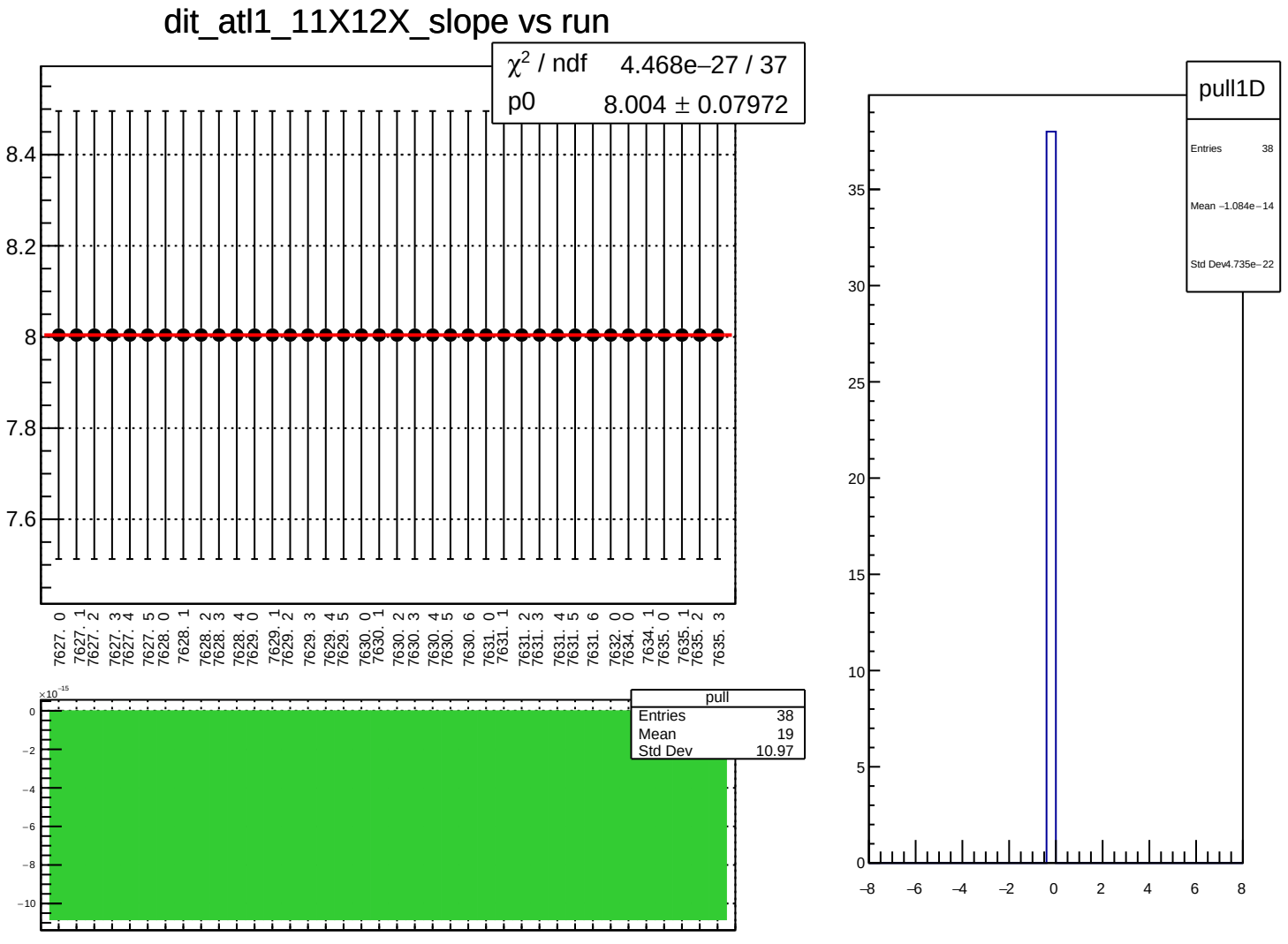

dit_usr_4eY_slope vs run
χ² / ndf 4.278e−29 / 37
p0 7.327 ± 0.4074
10
9
8
7
6
5
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
×10⁻¹⁵
1
0.8
0.6
0.4
0.2
0
pull
Entries 38
Mean 19
Std Dev 10.97
pull1D
Entries 38
Mean 1.061e−15
Std Dev 0
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

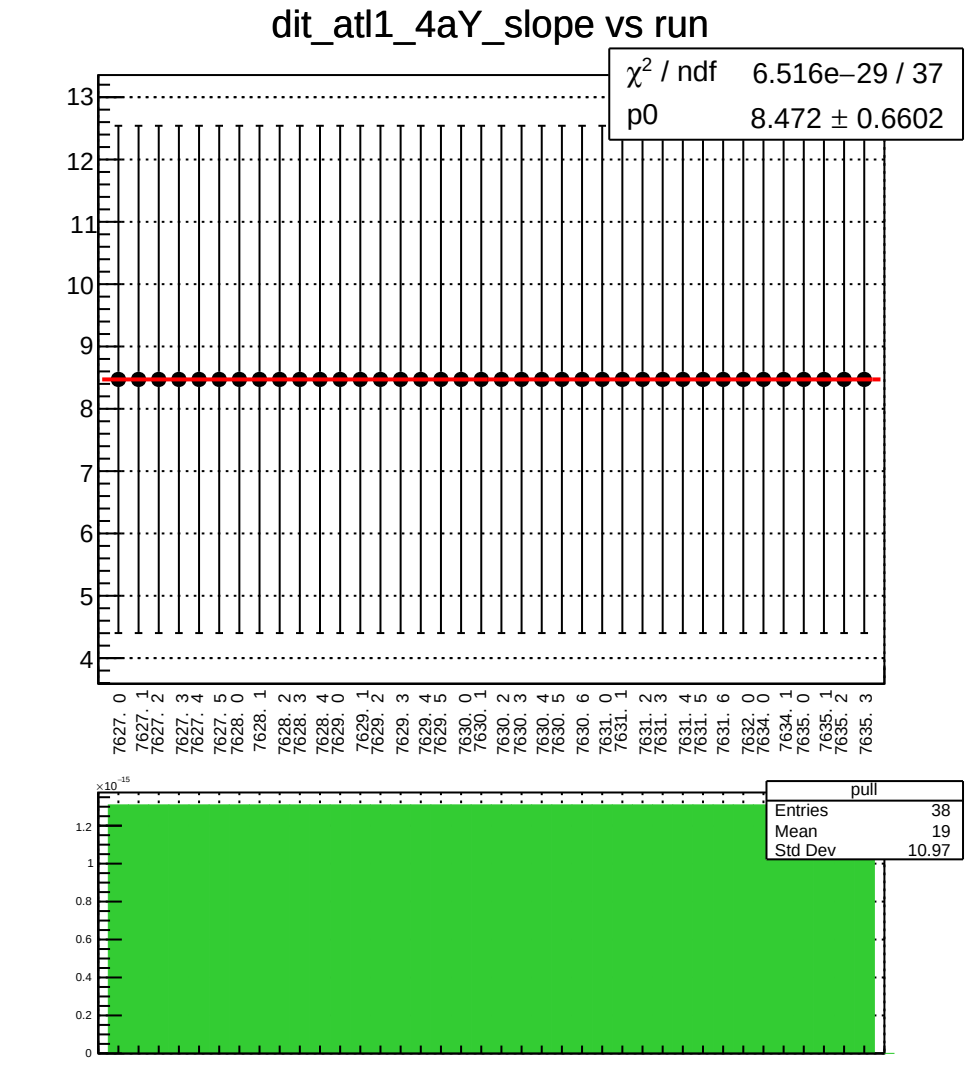

dit_atl1_4aX_slope vs run
χ² / ndf 2.836e−27 / 37
p0 34.46 ± 0.2669
pull
Entries 38
Mean 19
Std Dev 10.97

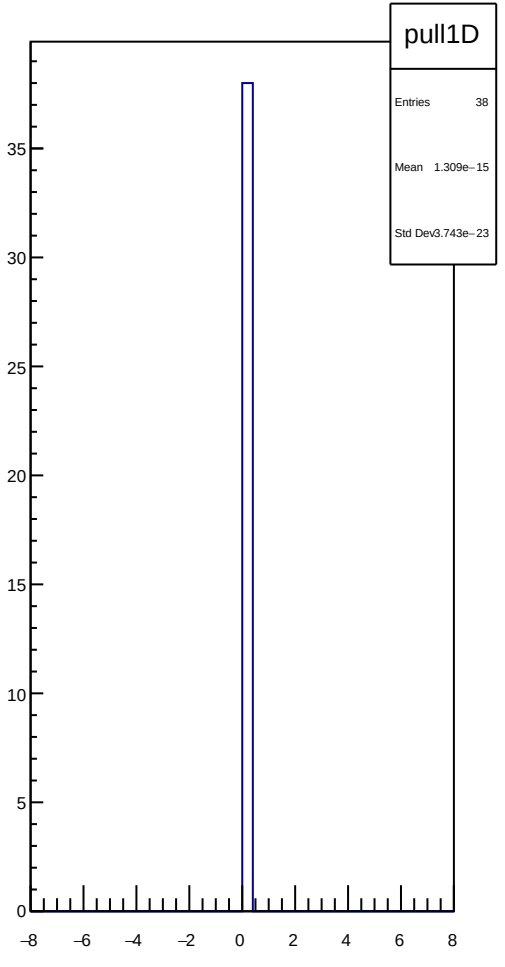

pull1D
Entries 38
Mean −8.639e−15
Std Dev3.668e−22

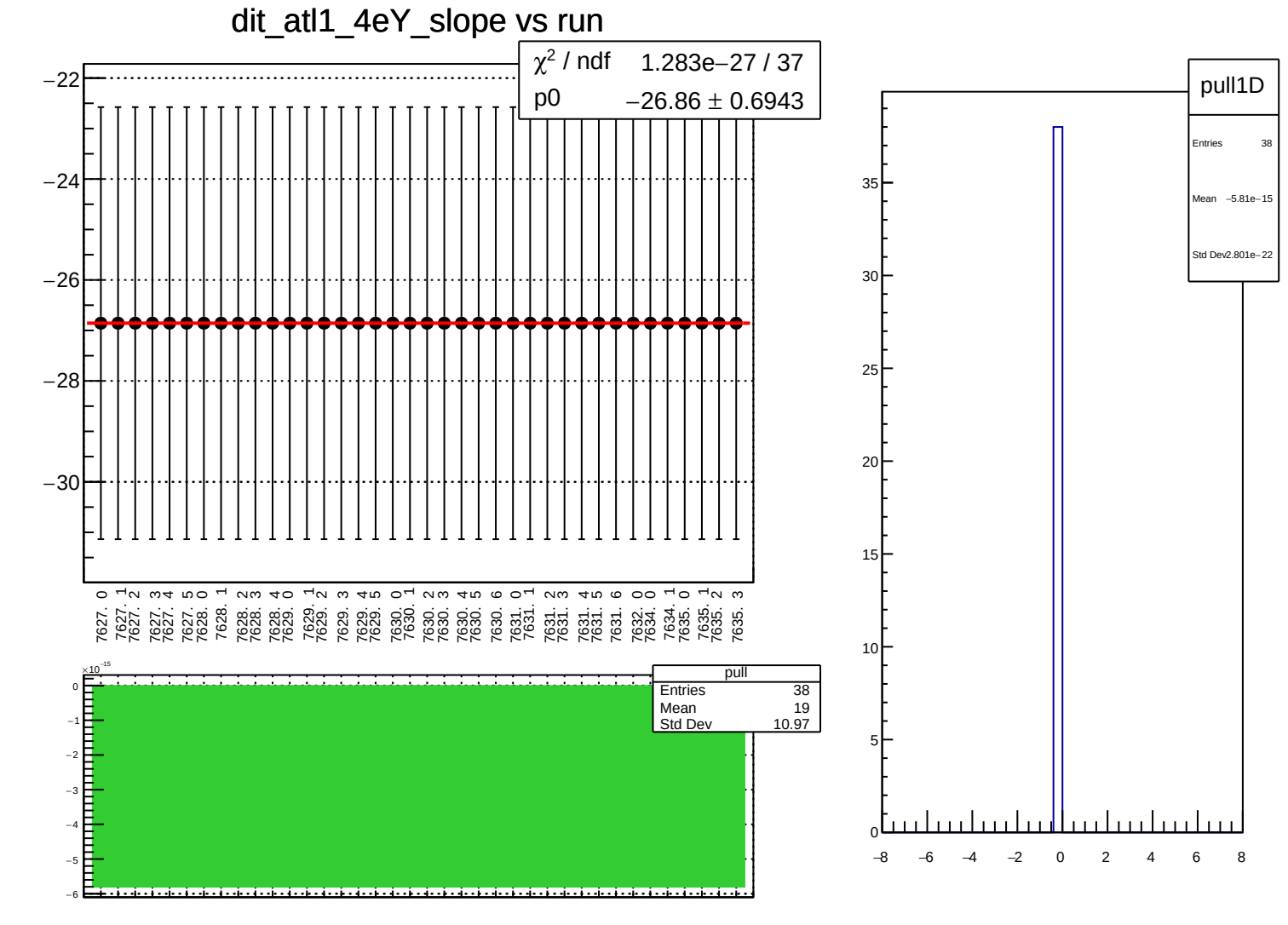

dit_atl1_4eX_slope vs run
χ² / ndf 0 / 37
p0 2.427 ± 0.1891
3.5
3
2.5
2
1.5
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

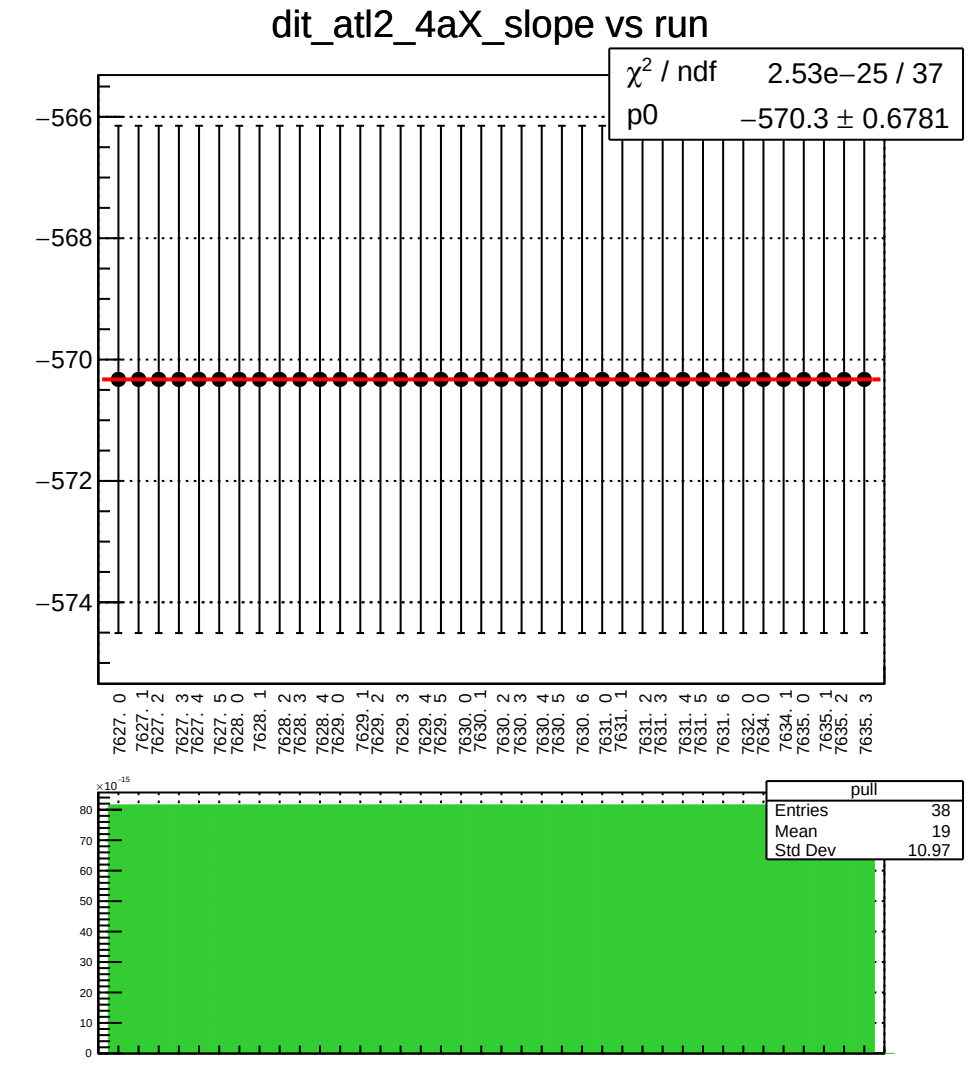

pull1D
Entries 38
Mean 0
Std Dev 0
35
30
25
20
15
10
5
0
–8
–6
–4
–2
0
2
4
6
8

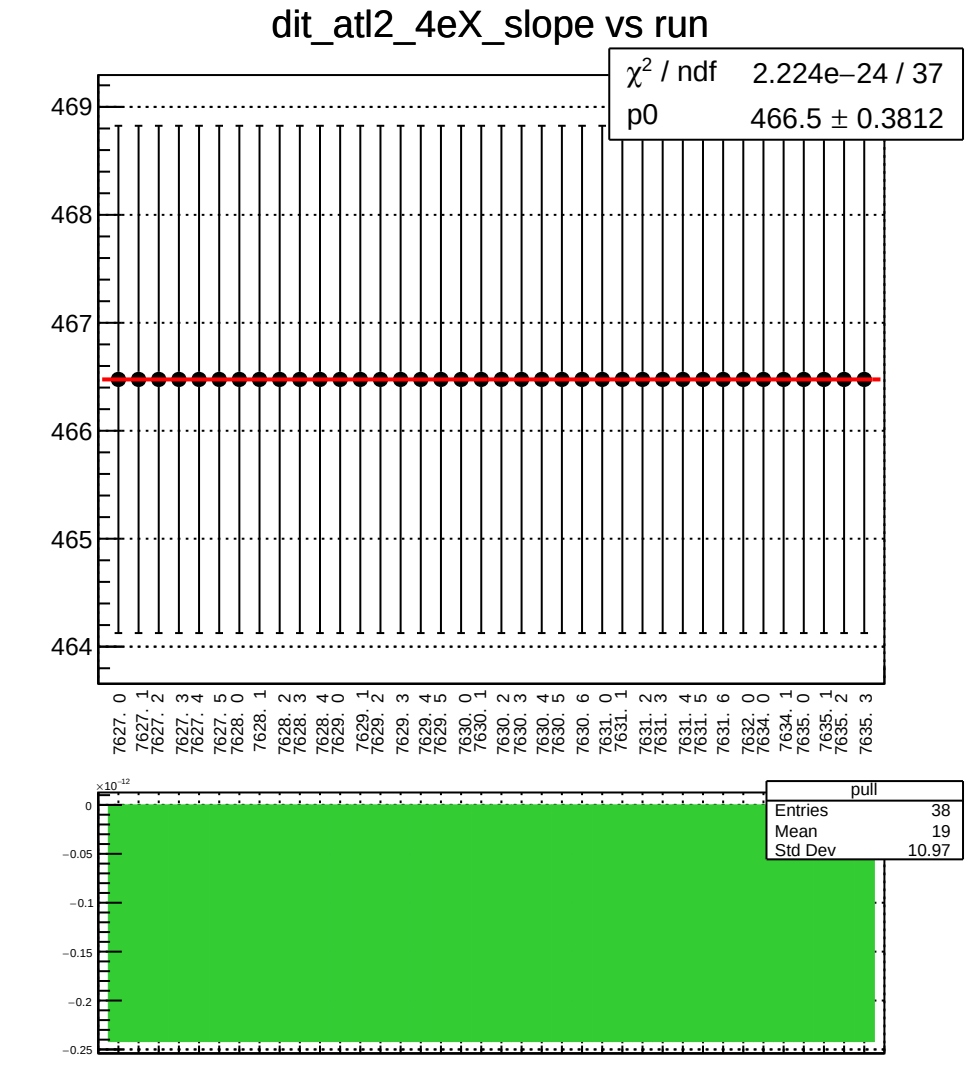

dit_atl1_11X12X_slope vs run
χ² / ndf 4.468e−27 / 37
p0 8.004 ± 0.07972
8.4
8.2
8
7.8
7.6
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
×10⁻¹⁵
0
−2
−4
−6
−8
−10
pull
Entries 38
Mean 19
Std Dev 10.97
pull1D
Entries 38
Mean −1.084e−14
Std Dev4.735e−22
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

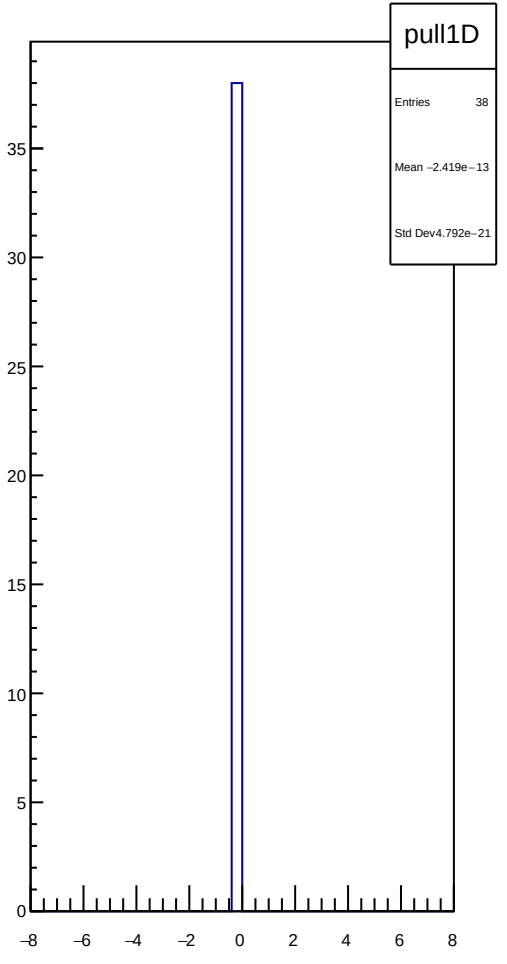

dit_atl1_4aY_slope vs run
χ² / ndf 6.516e−29 / 37
p0 8.472 ± 0.6602
pull
Entries 38
Mean 19
Std Dev 10.97

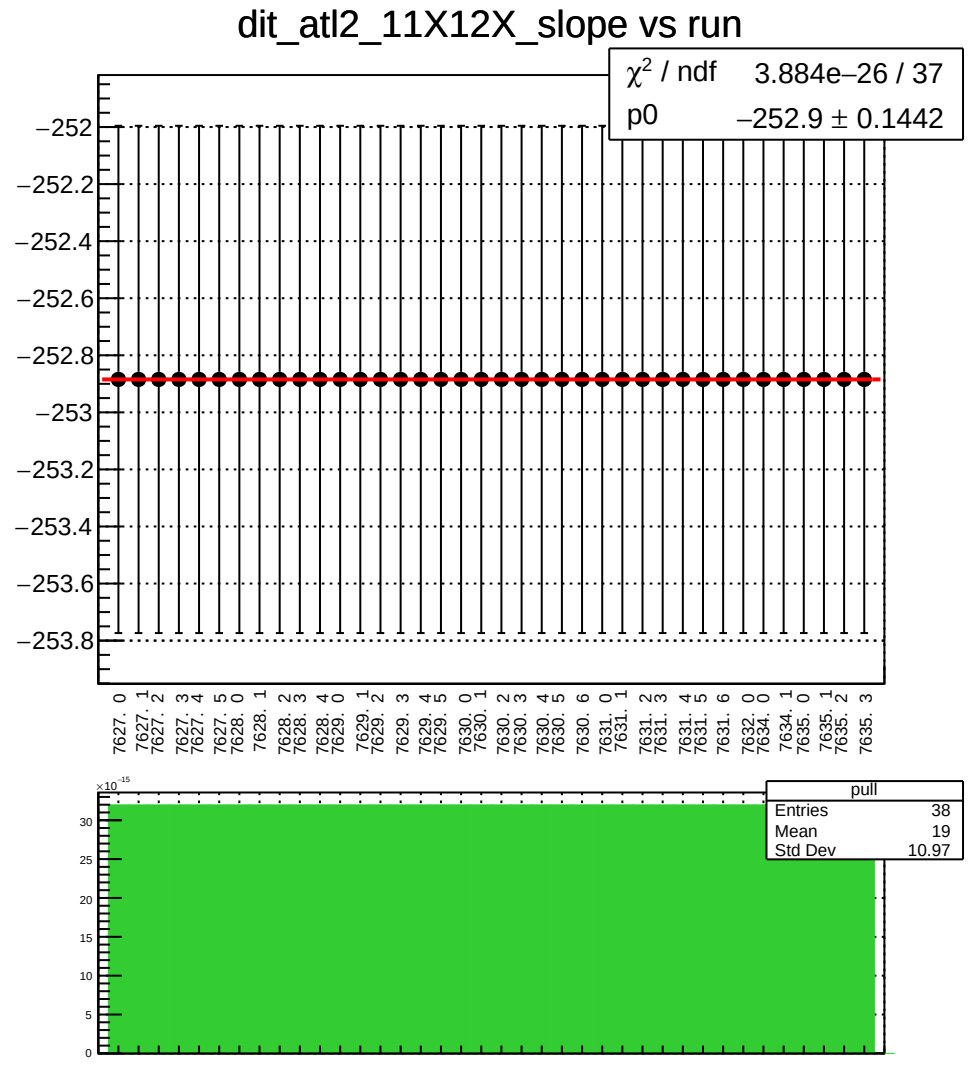

pull1D
Entries 38
Mean 1.309e−15
Std Dev3.743e−23

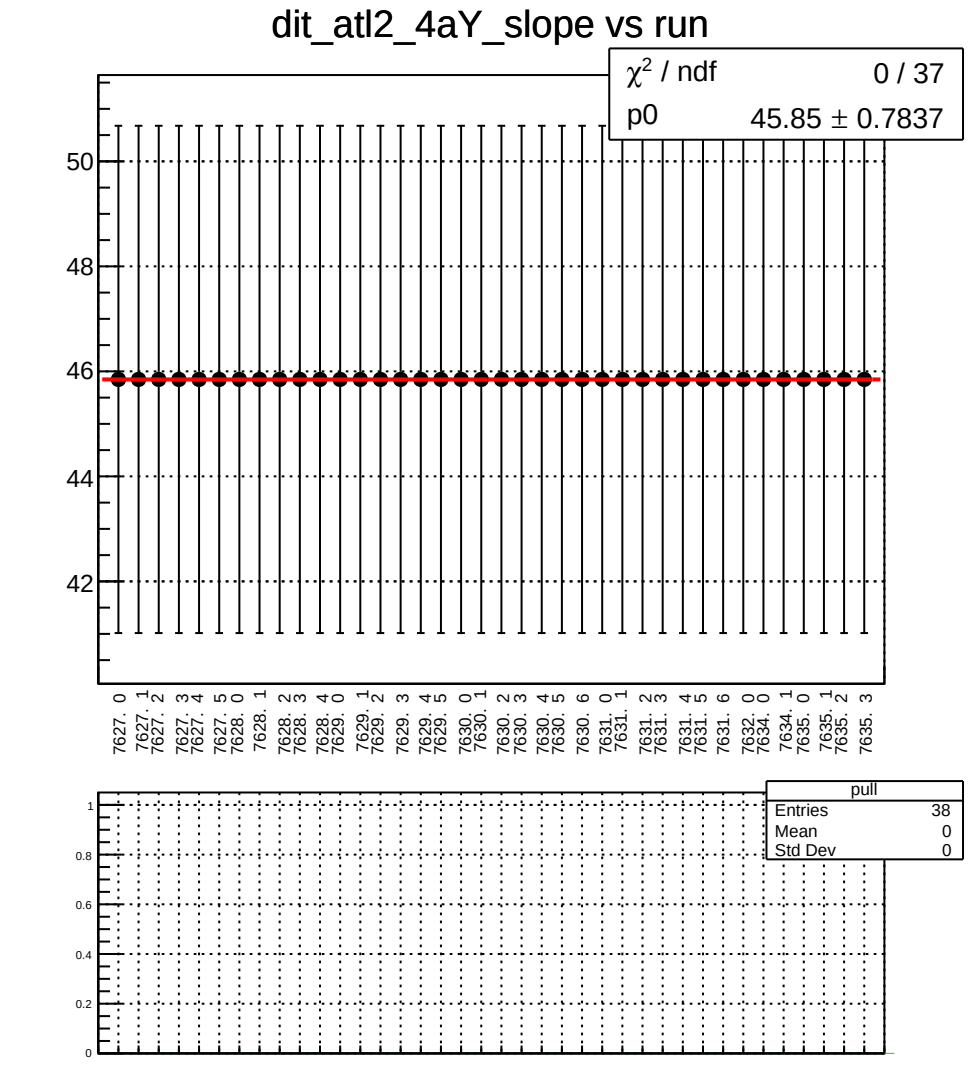

dit_atl1_4eY_slope vs run
χ² / ndf 1.283e−27 / 37
p0 −26.86 ± 0.6943
−22
−24
−26
−28
−30
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
×10⁻¹⁵
0
−1
−2
−3
−4
−5
−6
pull
Entries 38
Mean 19
Std Dev 10.97
pull1D
Entries 38
Mean −5.81e−15
Std Dev 2.801e−22
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

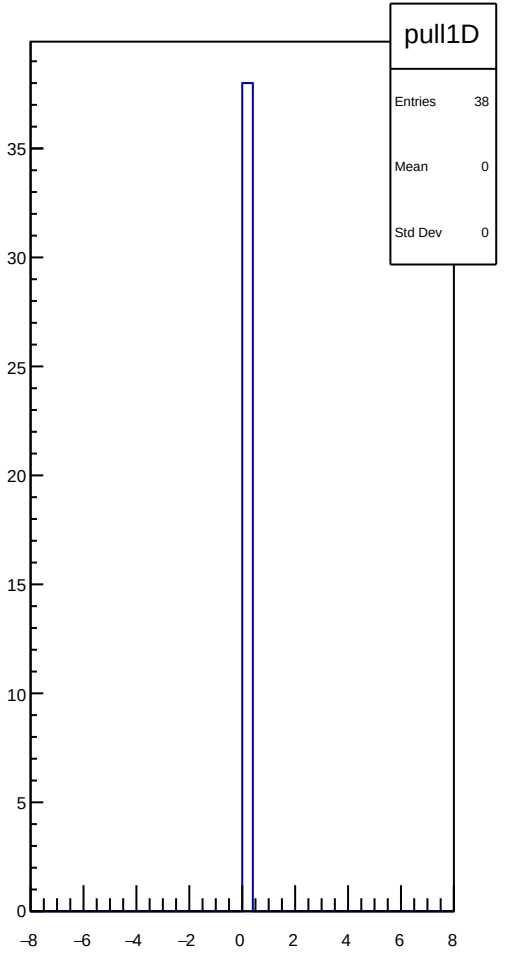

dit_atl2_4aX_slope vs run
χ² / ndf 2.53e−25 / 37
p0 −570.3 ± 0.6781
−566
−568
−570
−572
−574
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
×10⁻�15
pull
Entries 38
Mean 19
Std Dev 10.97
pull1D
Entries 38
Mean 8.159e−14
Std Dev2.679e−21

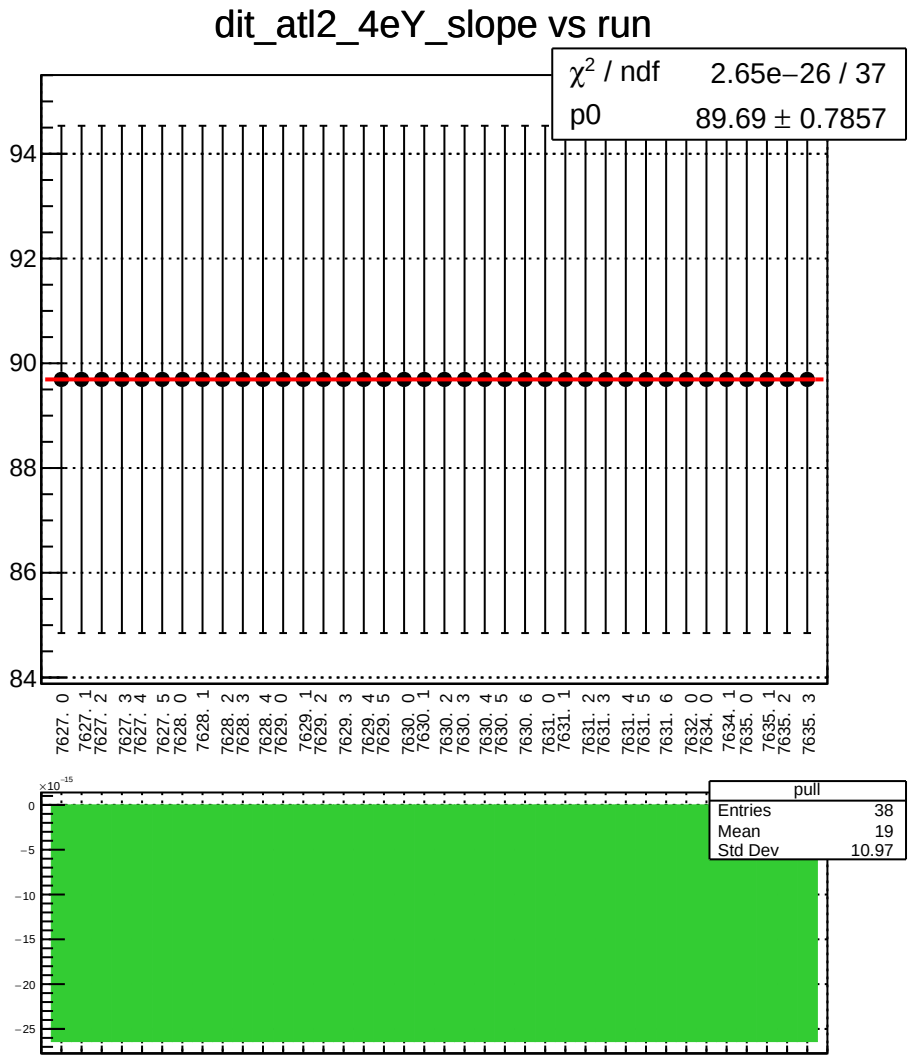

dit_atl2_4eX_slope vs run
χ² / ndf 2.224e−24 / 37
p0 466.5 ± 0.3812
469
468
467
466
465
464
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
×10⁻�¹²
0
−0.05
−0.1
−0.15
−0.2
−0.25
pull
Entries 38
Mean 19
Std Dev 10.97

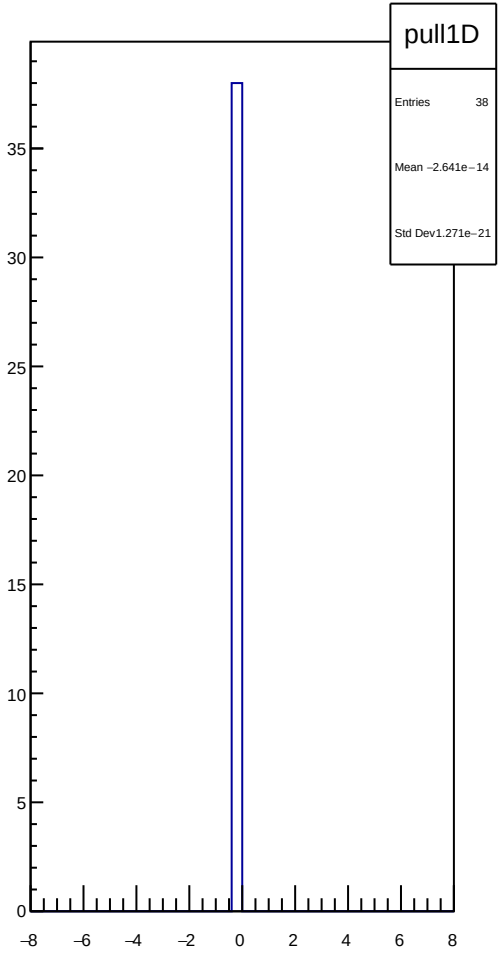

pull1D
Entries 38
Mean −2.419e−13
Std Dev4.792e−21
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

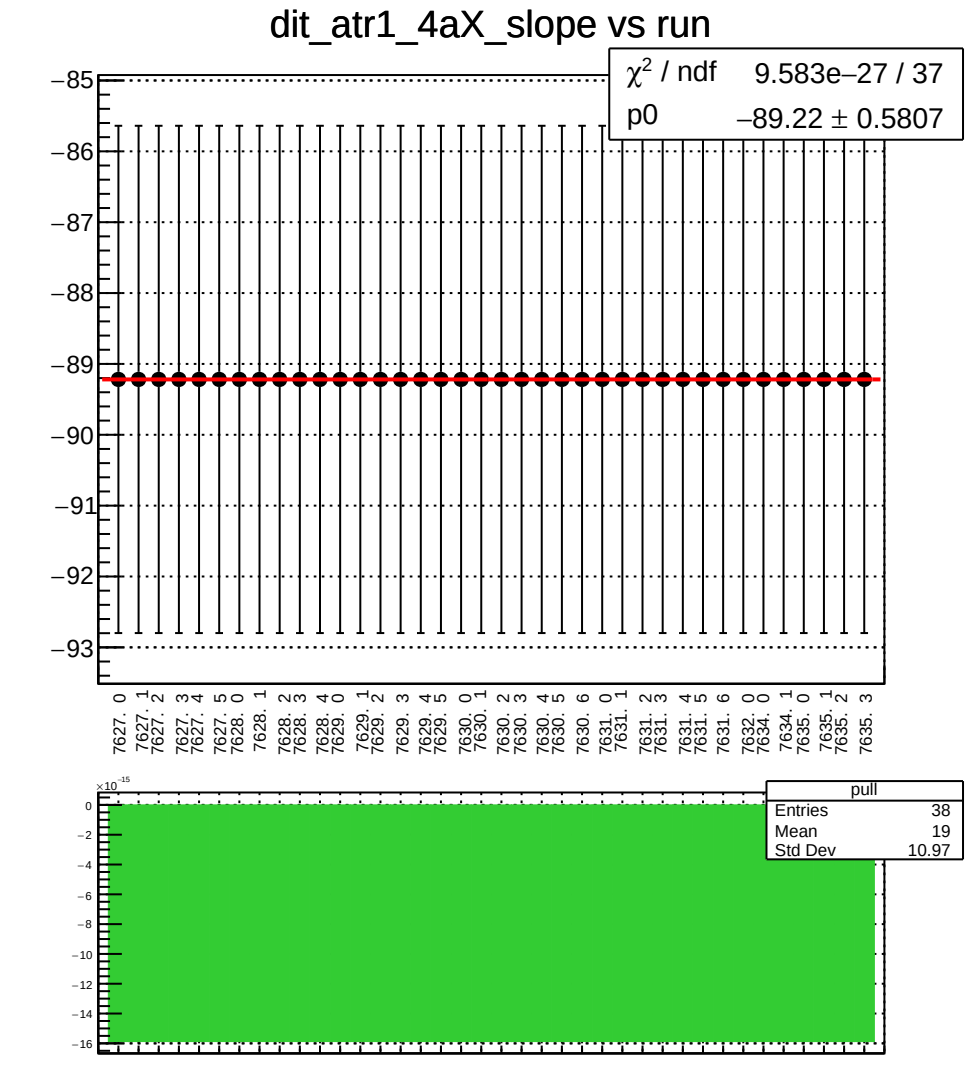

dit_atl2_11X12X_slope vs run
χ² / ndf 3.884e−26 / 37
p0 −252.9 ± 0.1442
−252
−252.2
−252.4
−252.6
−252.8
−253
−253.2
−253.4
−253.6
−253.8
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
×10⁻¹⁵
pull
Entries 38
Mean 19
Std Dev 10.97
pull1D
Entries 38
Mean 3.197e−14
Std Dev1.271e−21

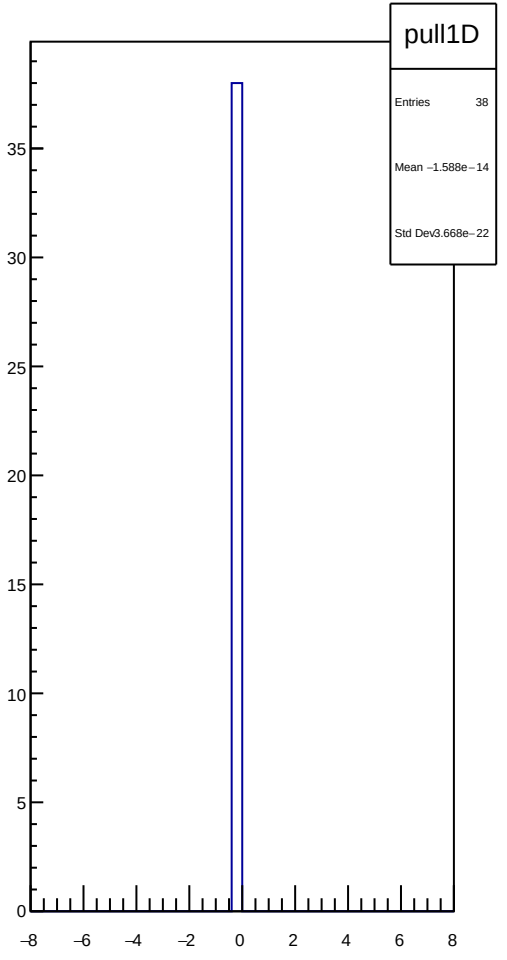

dit_atl2_4aY_slope vs run
χ² / ndf 0 / 37
p0 45.85 ± 0.7837
50
48
46
44
42
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

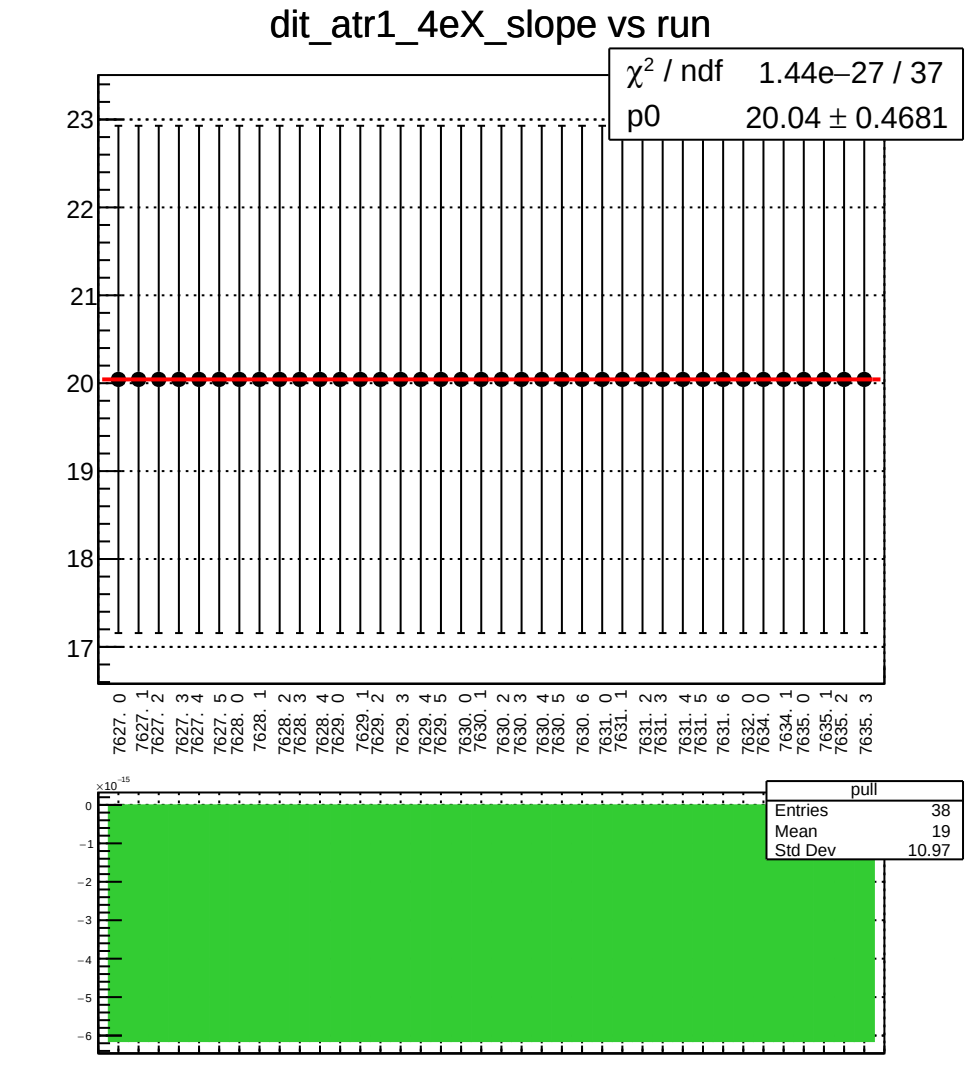

pull1D
Entries 38
Mean 0
Std Dev 0
35
30
25
20
15
10
5
0
–8
–6
–4
–2
0
2
4
6
8

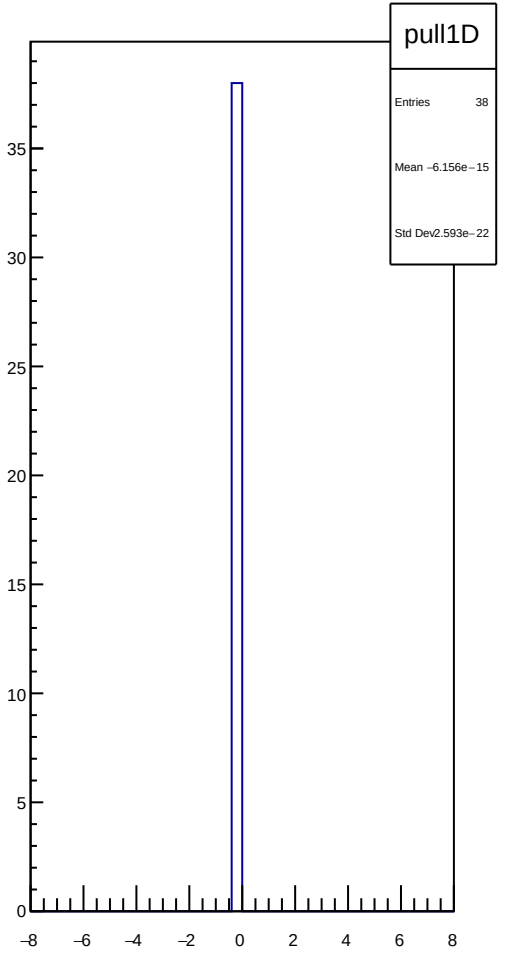

dit_atl2_4eY_slope vs run
χ² / ndf 2.65e−26 / 37
p0 89.69 ± 0.7857
94
92
90
88
86
84
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
×10⁻¹⁵
0
−5
−10
−15
−20
−25
pull
Entries 38
Mean 19
Std Dev 10.97

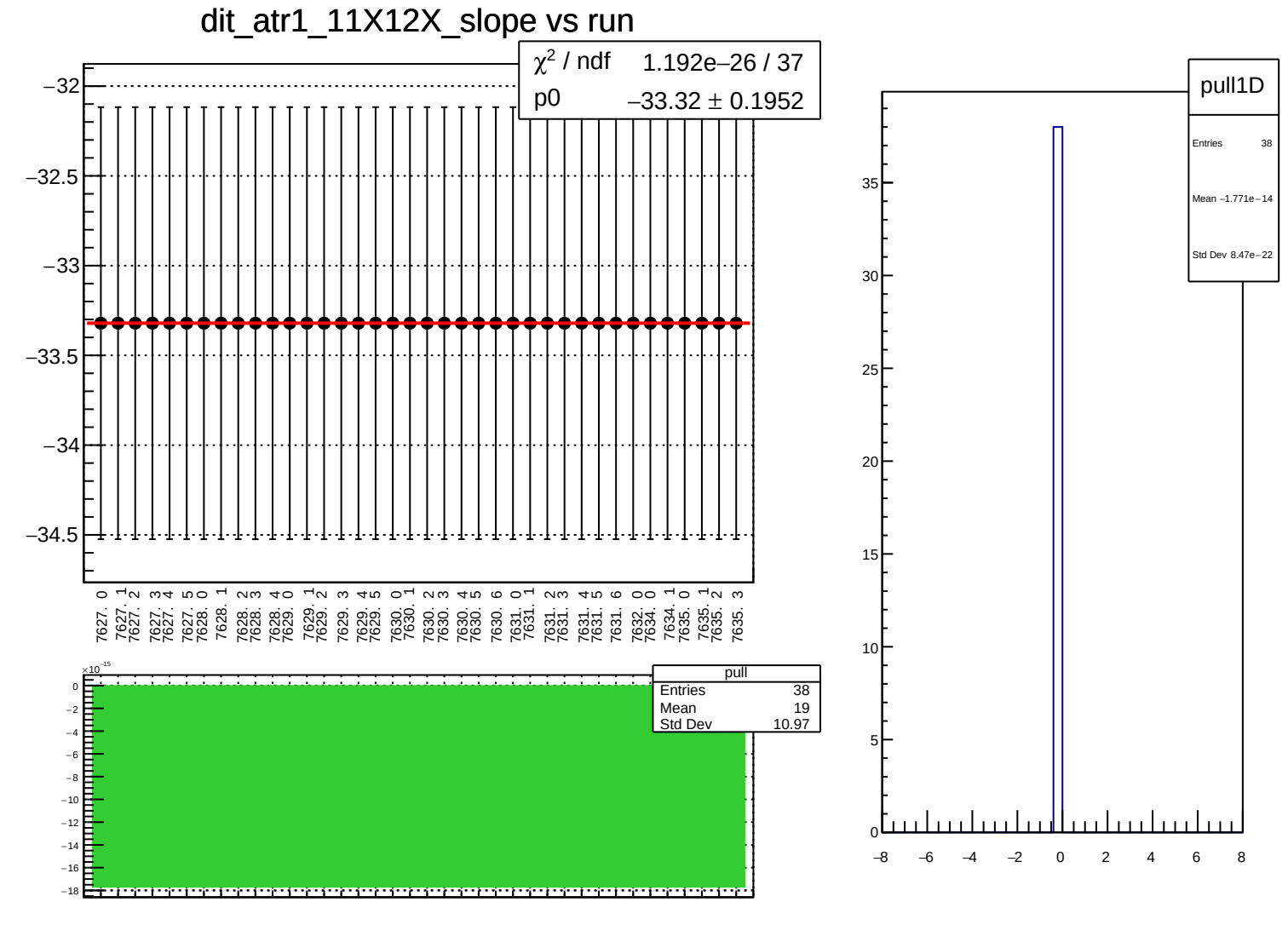

pull1D
Entries 38
Mean −2.641e−14
Std Dev1.271e−21
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

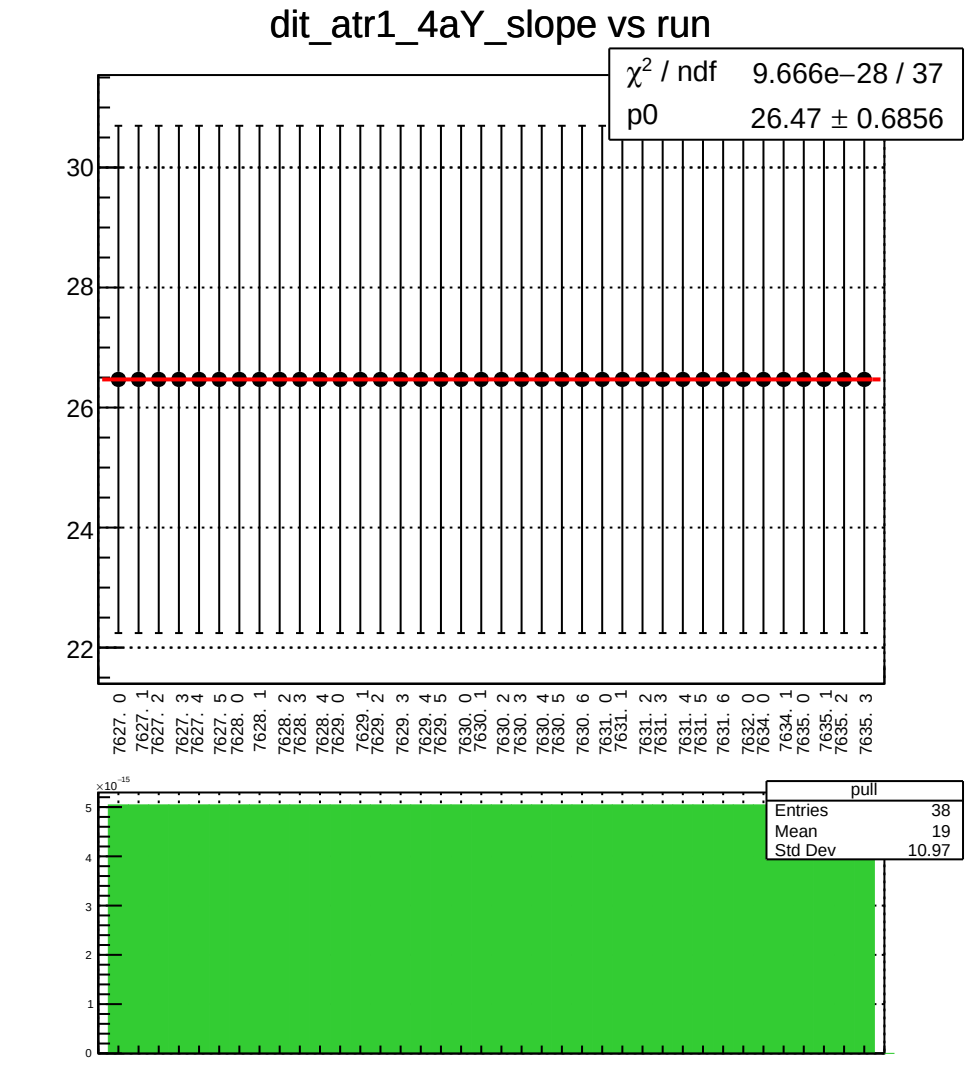

dit_atr1_4aX_slope vs run
χ² / ndf 9.583e−27 / 37
p0 −89.22 ± 0.5807
−85
−86
−87
−88
−89
−90
−91
−92
−93
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
×10⁻¹⁵
0
−2
−4
−6
−8
−10
−12
−14
−16
pull
Entries 38
Mean 19
Std Dev 10.97

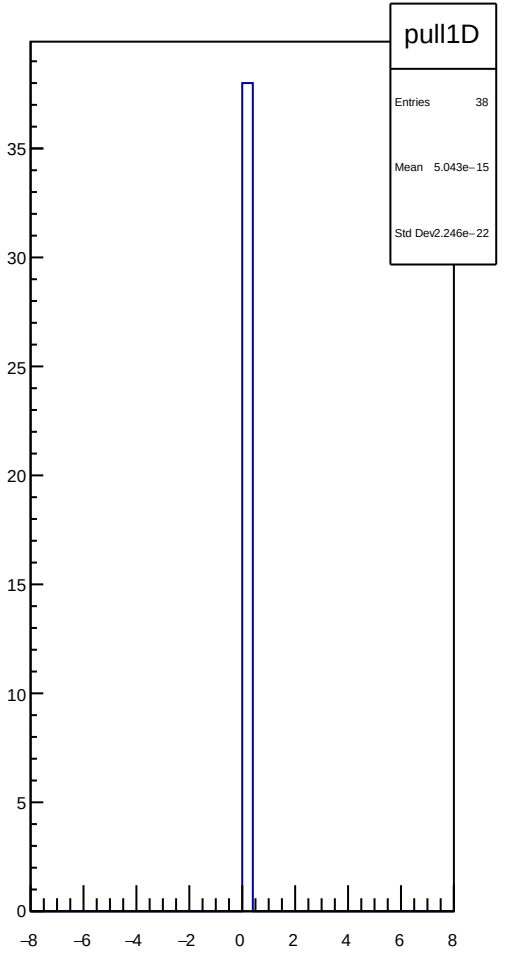

pull1D
Entries 38
Mean −1.588e−14
Std Dev3.668e−22
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

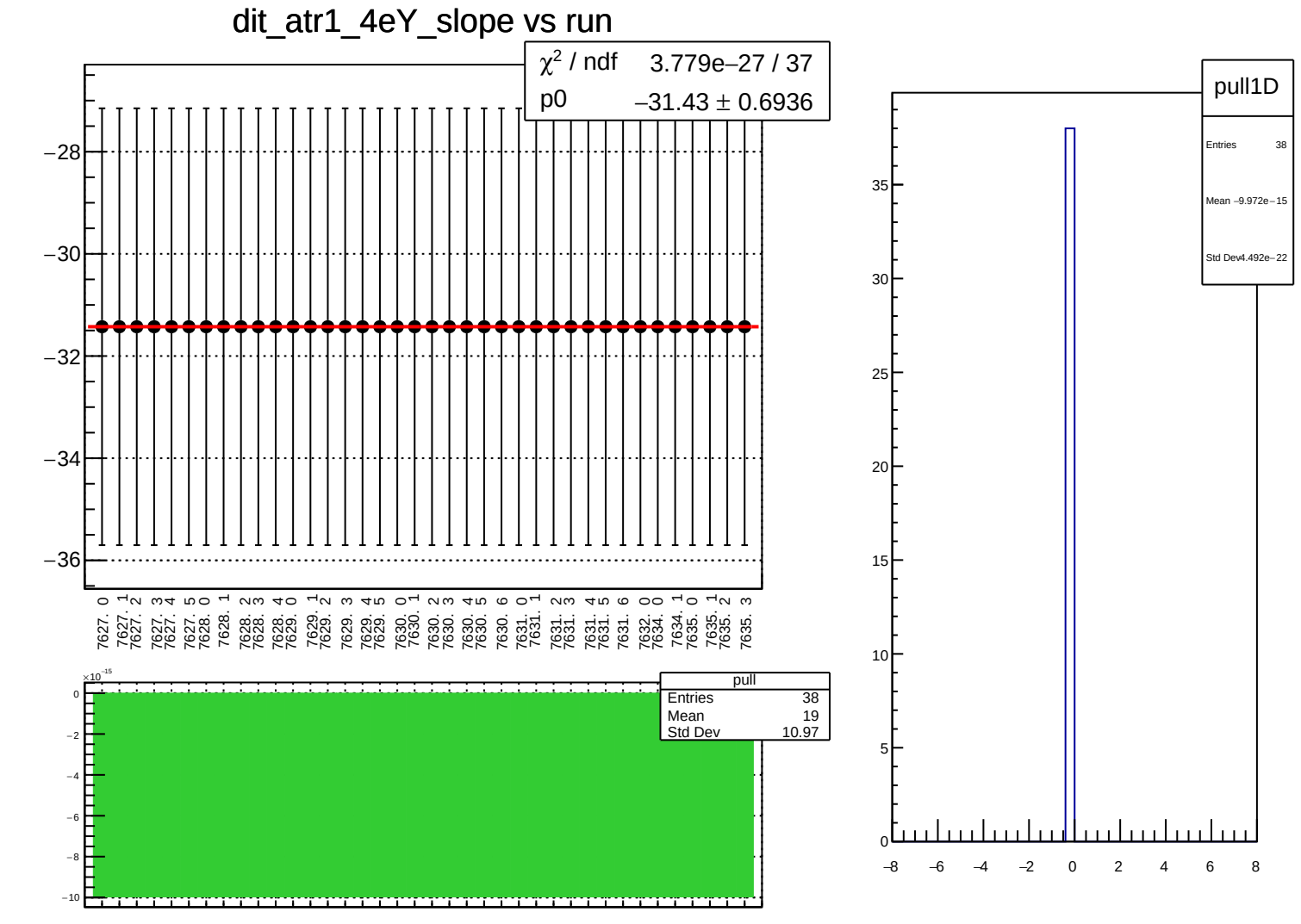

dit_atr1_4eX_slope vs run
χ² / ndf 1.44e−27 / 37
p0 20.04 ± 0.4681
23
22
21
20
19
18
17
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
×10⁻¹⁵
0
−1
−2
−3
−4
−5
−6
pull
Entries 38
Mean 19
Std Dev 10.97

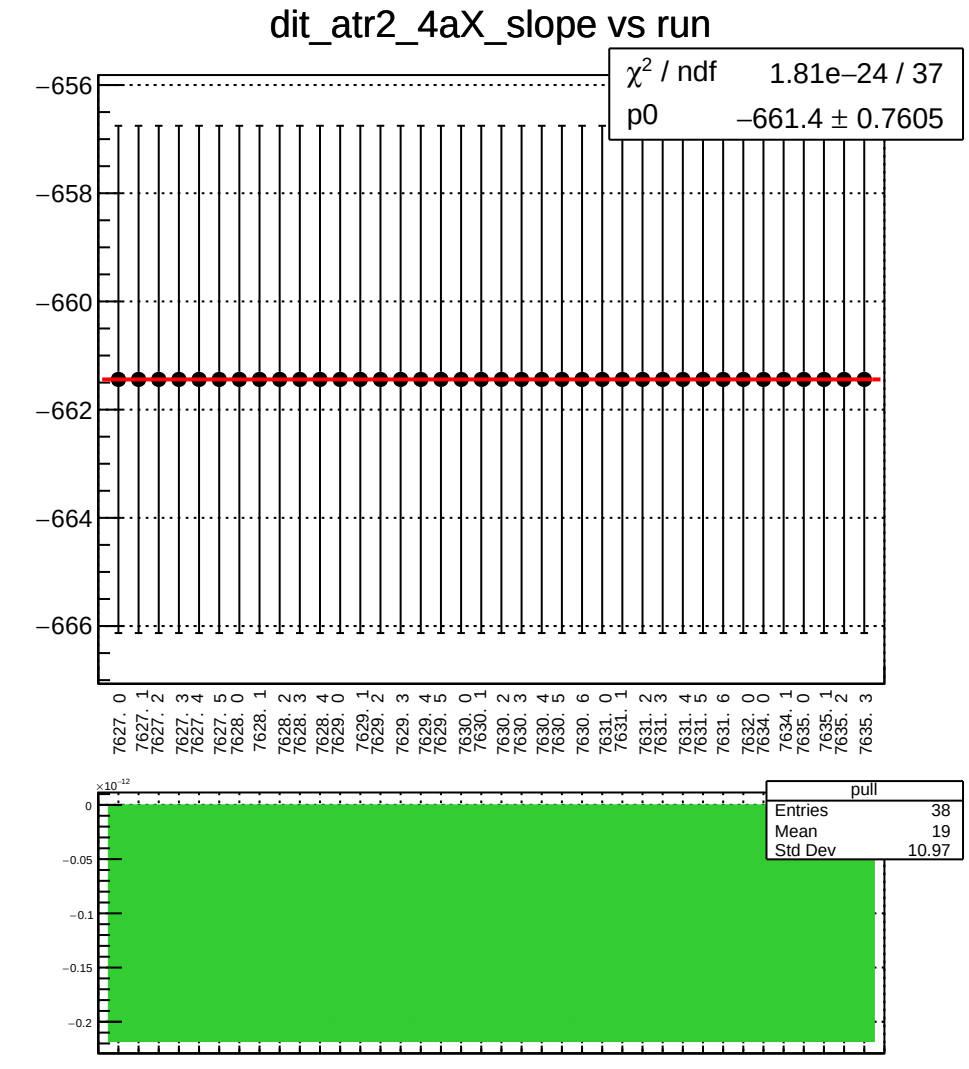

pull1D
Entries 38
Mean −6.156e−15
Std Dev 2.593e−22
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

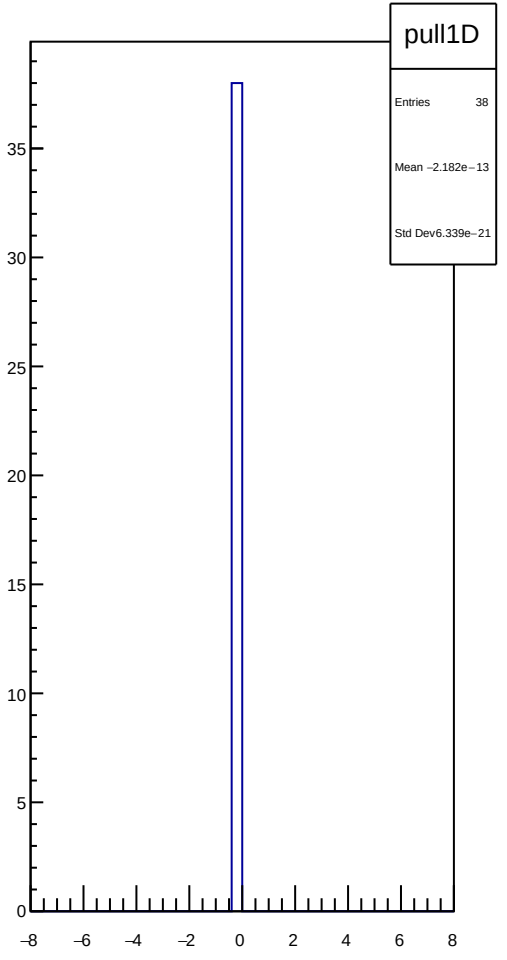

dit_atr1_11X12X_slope vs run
χ² / ndf 1.192e−26 / 37
p0 −33.32 ± 0.1952
−32
−32.5
−33
−33.5
−34
−34.5
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
×10⁻¹⁵
0
−2
−4
−6
−8
−10
−12
−14
−16
−18
pull
Entries 38
Mean 19
Std Dev 10.97
pull1D
Entries 38
Mean −1.771e−14
Std Dev 8.47e−22
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

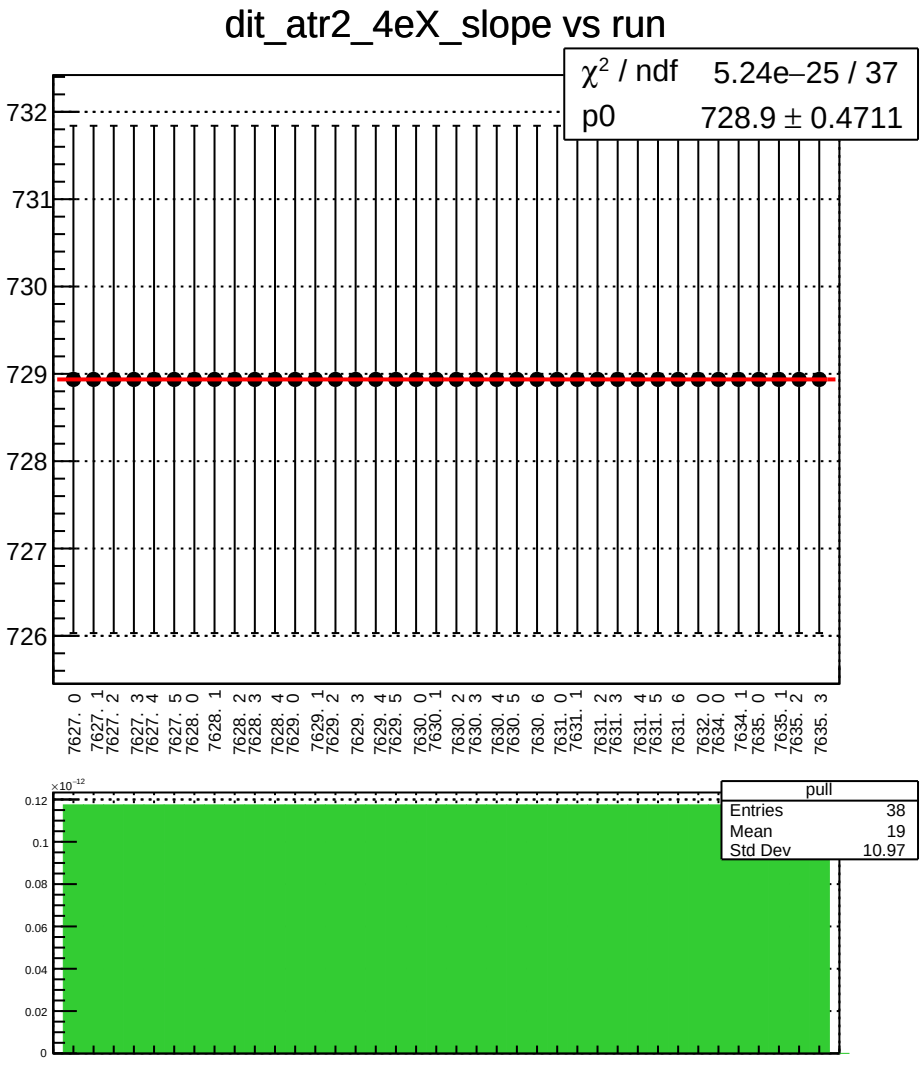

dit_atr1_4aY_slope vs run
χ² / ndf 9.666e−28 / 37
p0 26.47 ± 0.6856
30
28
26
24
22
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
×10⁻¹⁵
5
4
3
2
1
0
pull
Entries 38
Mean 19
Std Dev 10.97

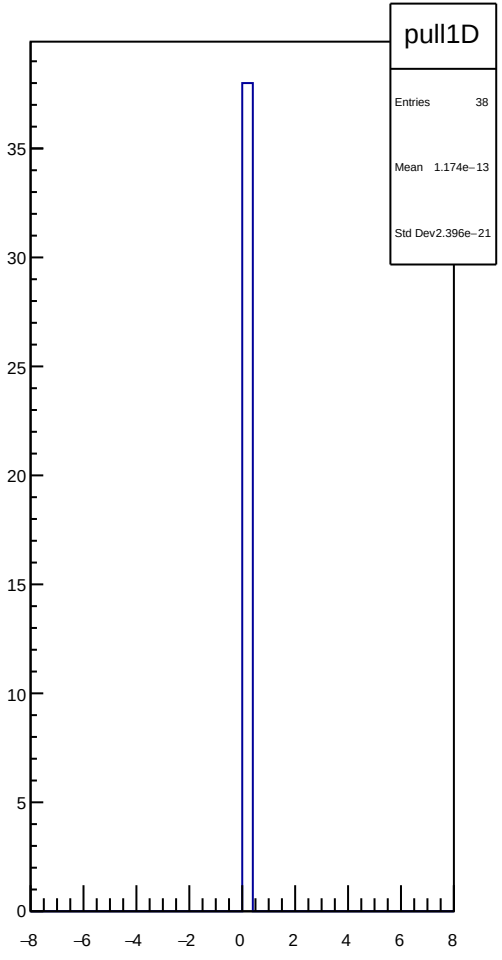

pull1D
Entries 38
Mean 5.043e−15
Std Dev2.246e−22
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

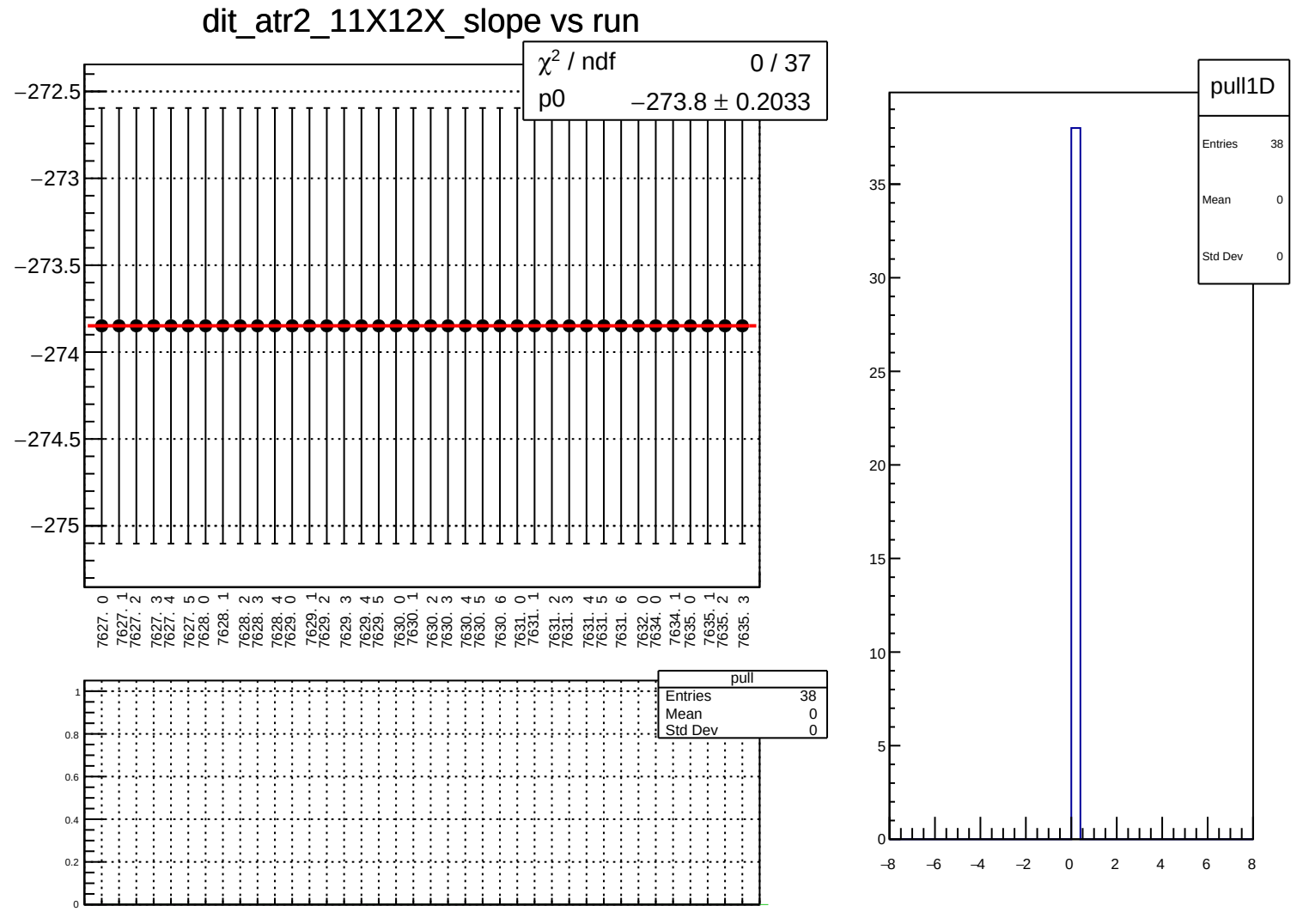

dit_atr1_4eY_slope vs run
χ² / ndf 3.779e−27 / 37
p0 −31.43 ± 0.6936
−28
−30
−32
−34
−36
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
×10⁻¹⁵
0
−2
−4
−6
−8
−10
pull
Entries 38
Mean 19
Std Dev 10.97
pull1D
Entries 38
Mean −9.972e−15
Std Dev4.492e−22
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

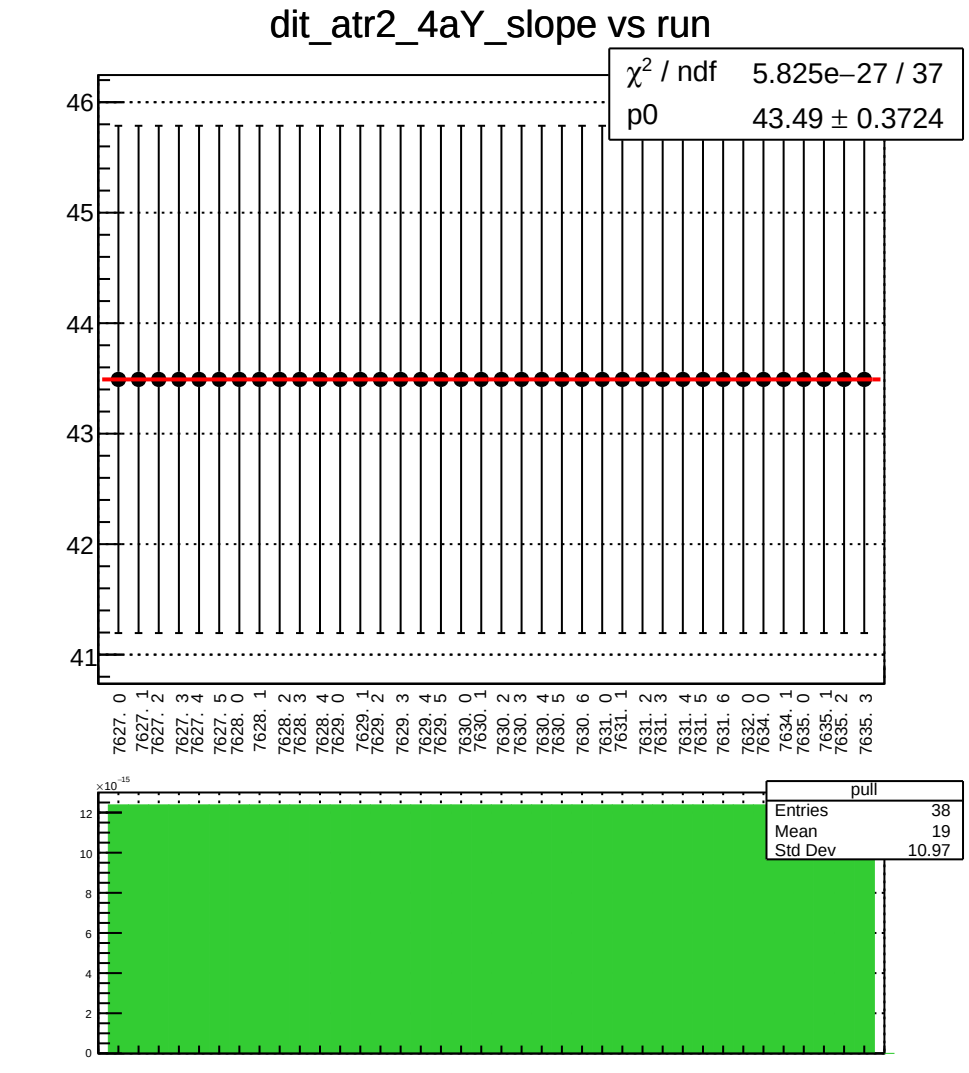

dit_atr2_4aX_slope vs run
χ² / ndf 1.81e−24 / 37
p0 −661.4 ± 0.7605
−656
−658
−660
−662
−664
−666
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
×10⁻�¹²
0
−0.05
−0.1
−0.15
−0.2
pull
Entries 38
Mean 19
Std Dev 10.97

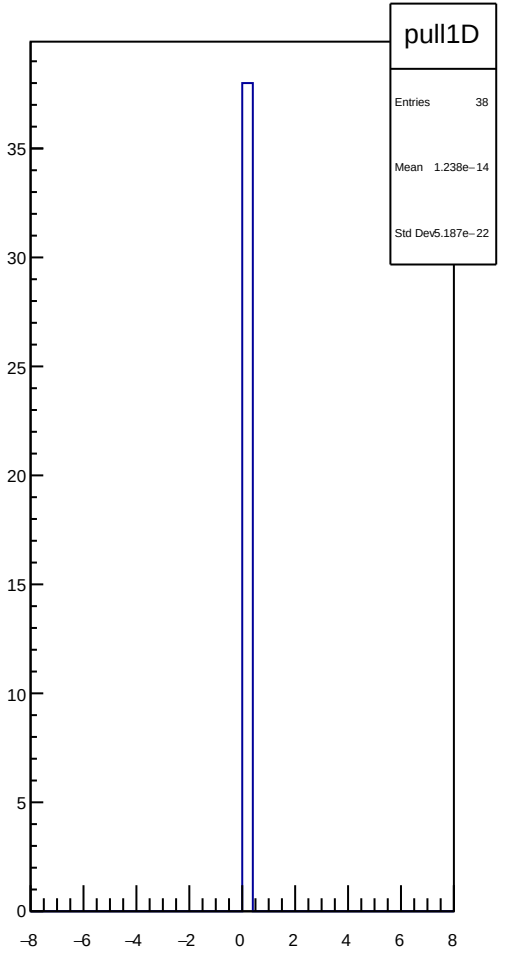

pull1D
Entries 38
Mean −2.182e−13
Std Dev6.339e−21
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

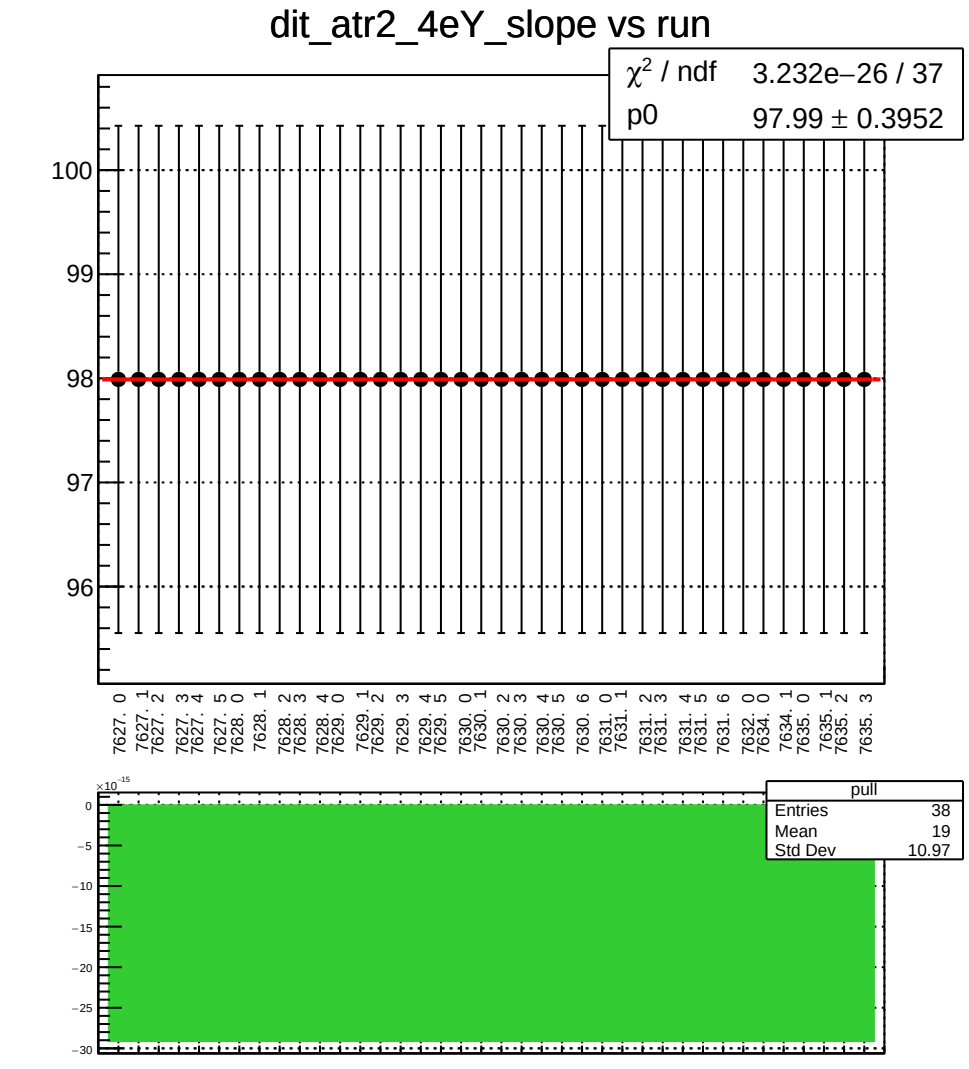

dit_atr2_4eX_slope vs run
χ² / ndf 5.24e−25 / 37
p0 728.9 ± 0.4711
732
731
730
729
728
727
726
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
×10⁻¹²
0.12
0.1
0.08
0.06
0.04
0.02
0
pull
Entries 38
Mean 19
Std Dev 10.97

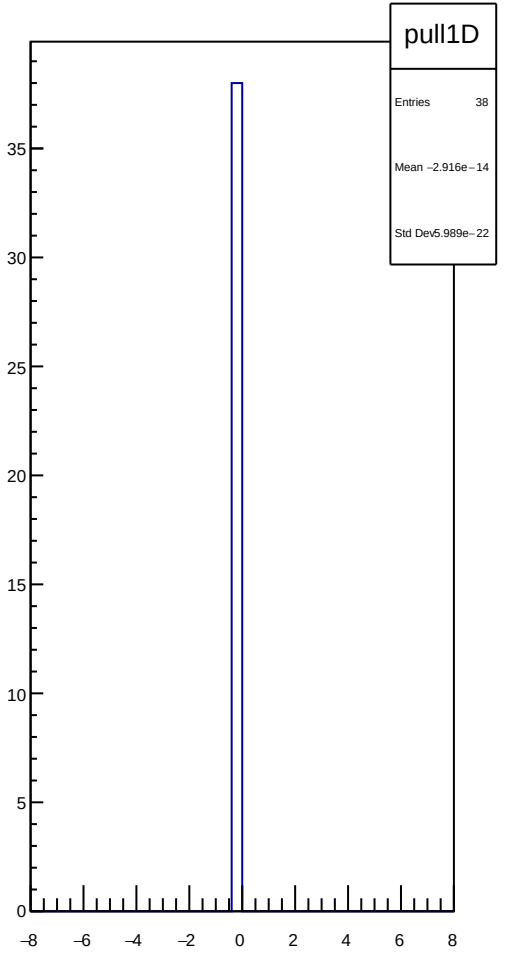

pull1D
Entries 38
Mean 1.174e−13
Std Dev2.396e−21
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

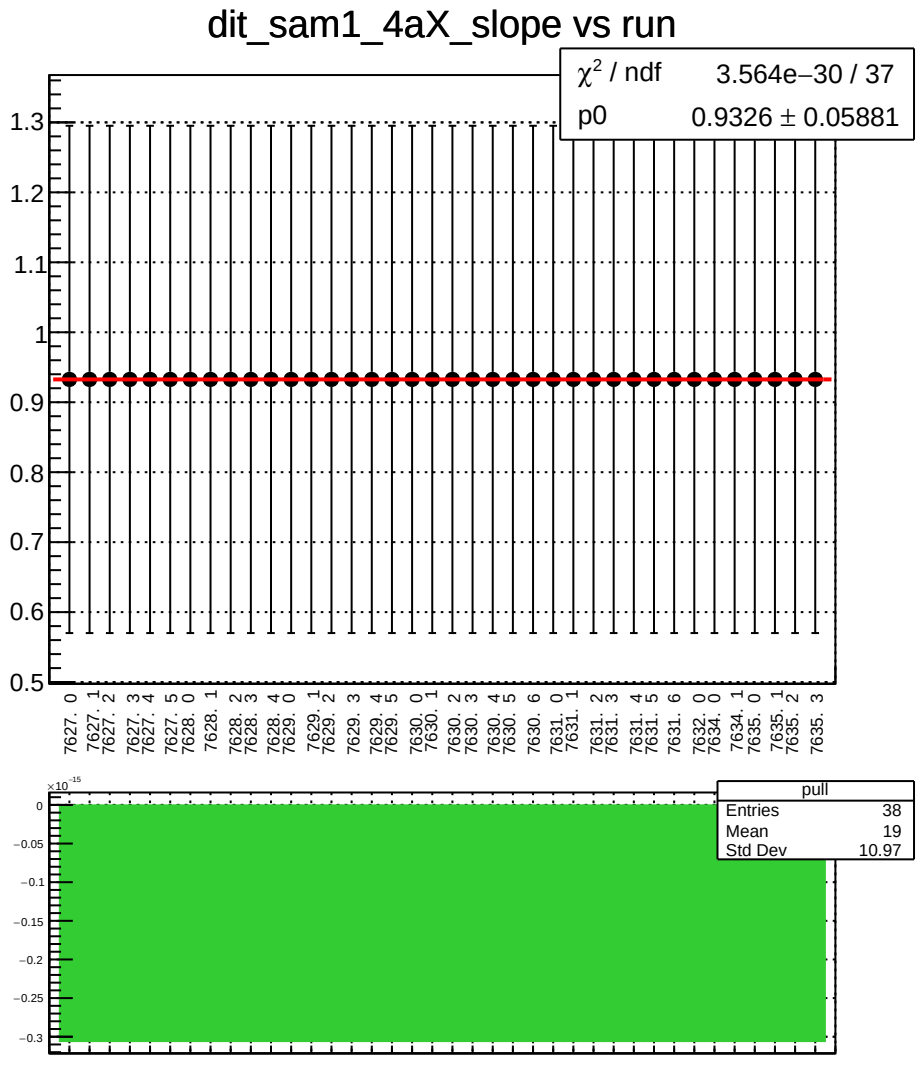

dit_atr2_11X12X_slope vs run
χ² / ndf 0 / 37
p0 −273.8 ± 0.2033
−272.5
−273
−273.5
−274
−274.5
−275
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 38
Mean 0
Std Dev 0
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

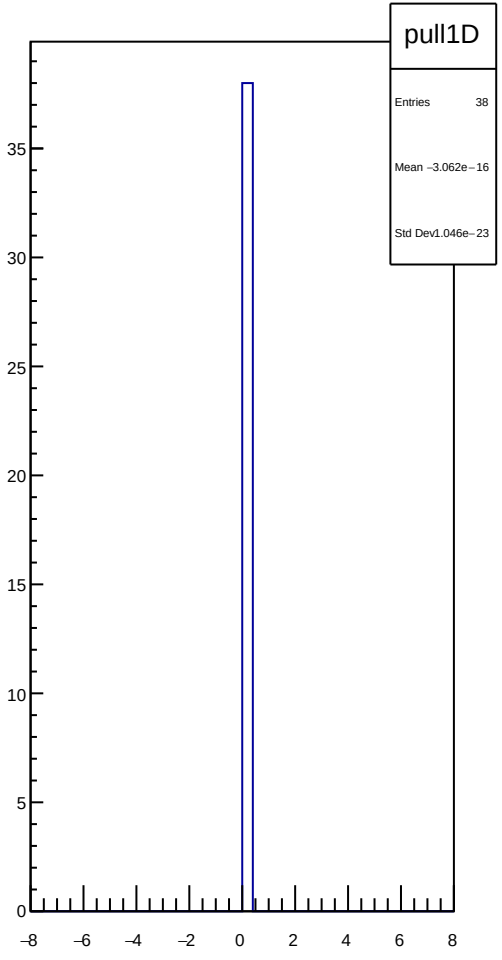

dit_atr2_4aY_slope vs run
χ² / ndf 5.825e−27 / 37
p0 43.49 ± 0.3724
46
45
44
43
42
41
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
×10⁻¹⁵
12
10
8
6
4
2
0
pull
Entries 38
Mean 19
Std Dev 10.97

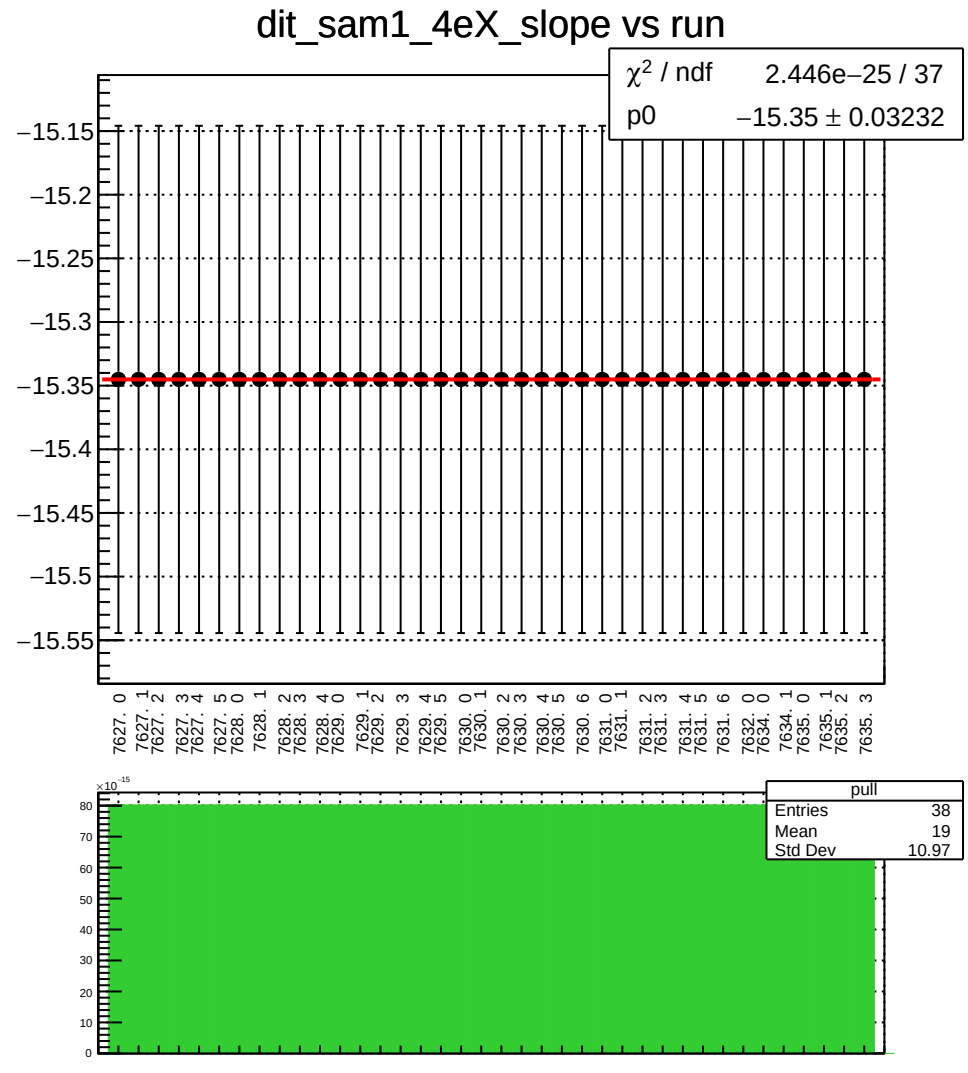

pull1D
Entries 38
Mean 1.238e−14
Std Dev5.187e−22
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

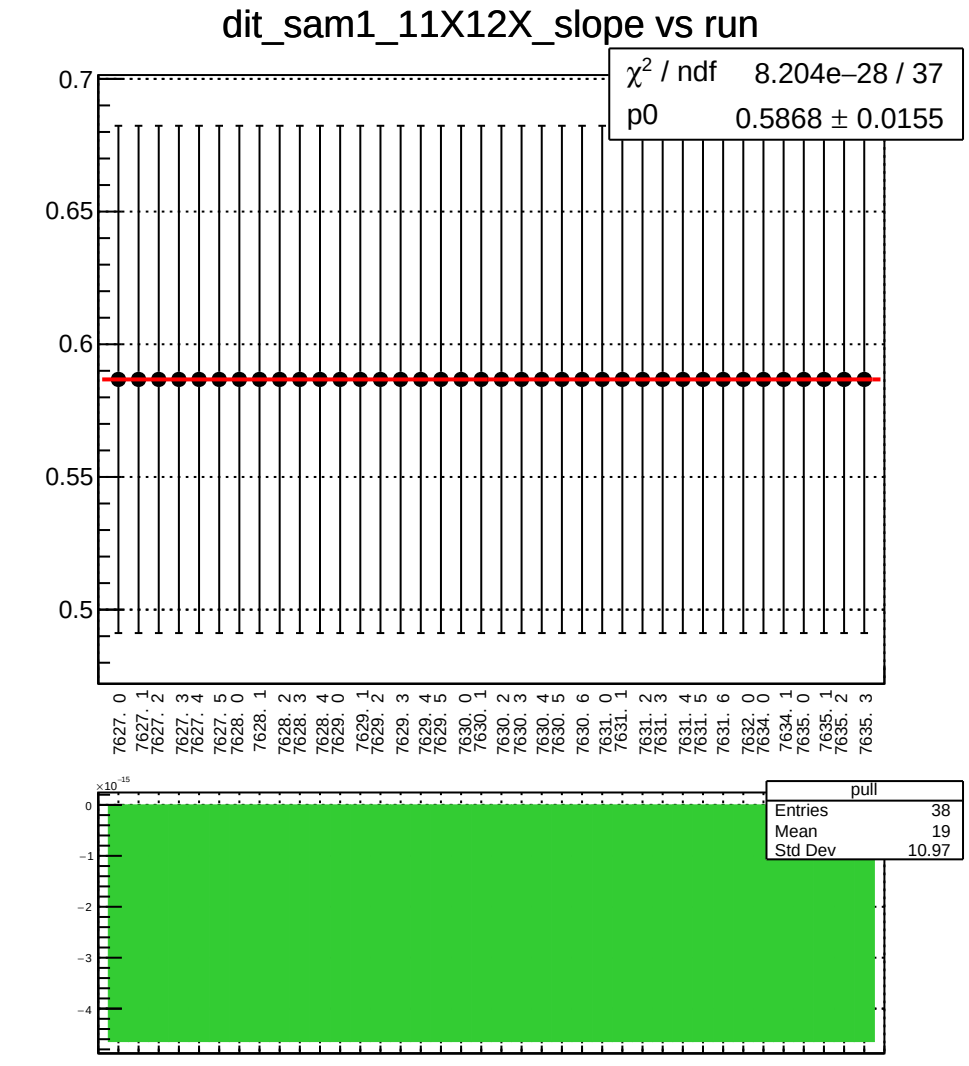

dit_atr2_4eY_slope vs run
χ² / ndf 3.232e−26 / 37
p0 97.99 ± 0.3952
100
99
98
97
96
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
×10⁻¹⁵
0
−5
−10
−15
−20
−25
−30
pull
Entries 38
Mean 19
Std Dev 10.97

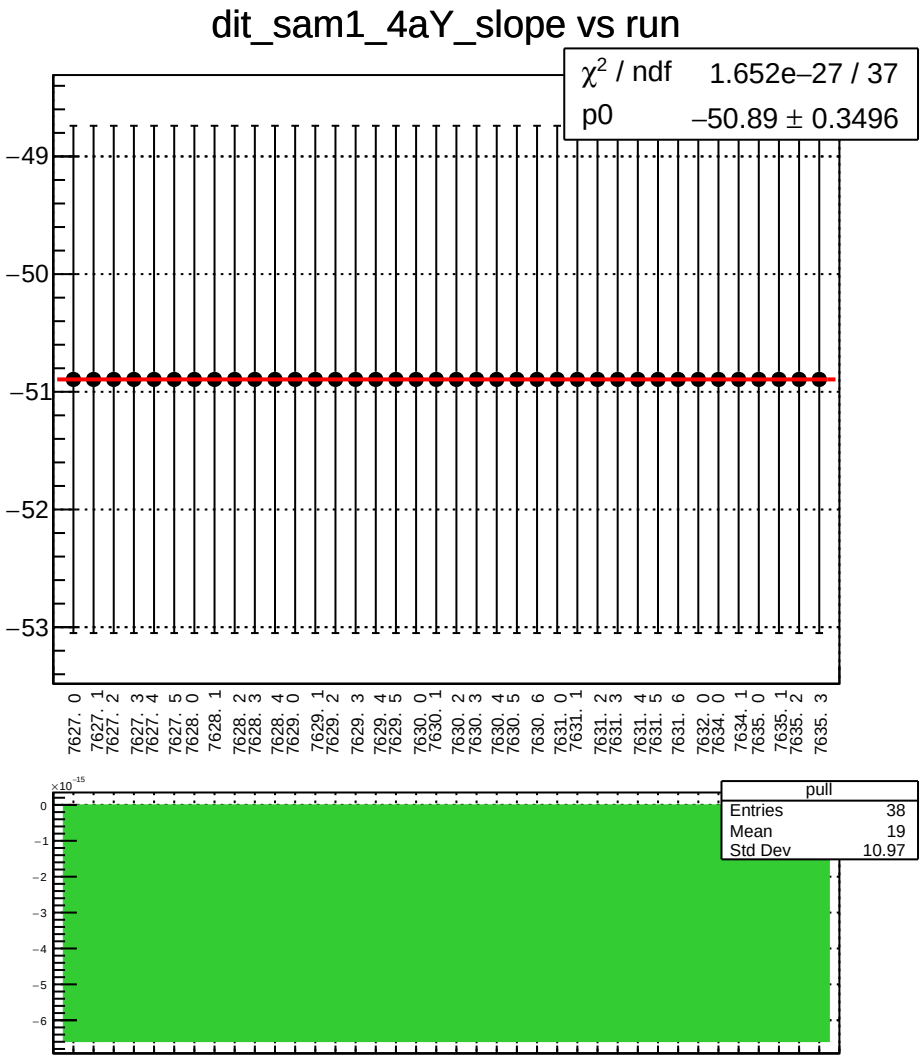

pull1D
Entries 38
Mean −2.916e−14
Std Dev5.989e−22
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

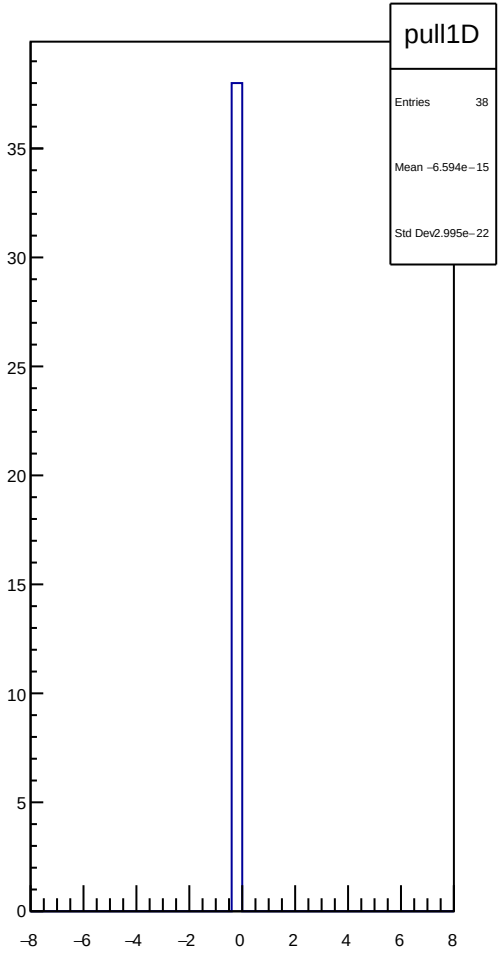

dit_sam1_4aX_slope vs run
χ² / ndf 3.564e−30 / 37
p0 0.9326 ± 0.05881
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
×10⁻¹⁵
0
−0.05
−0.1
−0.15
−0.2
−0.25
−0.3
pull
Entries 38
Mean 19
Std Dev 10.97

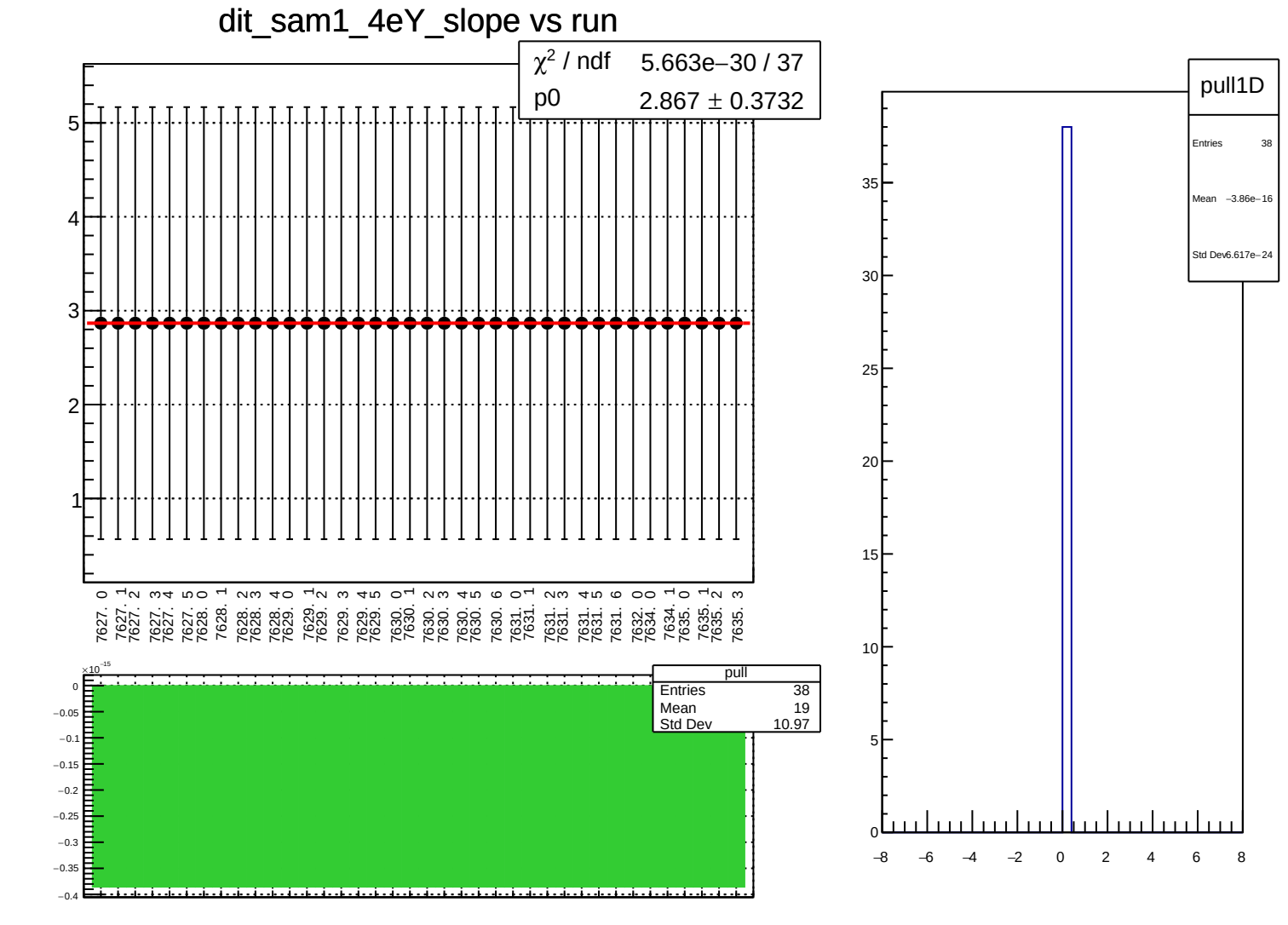

pull1D
Entries 38
Mean −3.062e−16
Std Dev1.046e−23
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

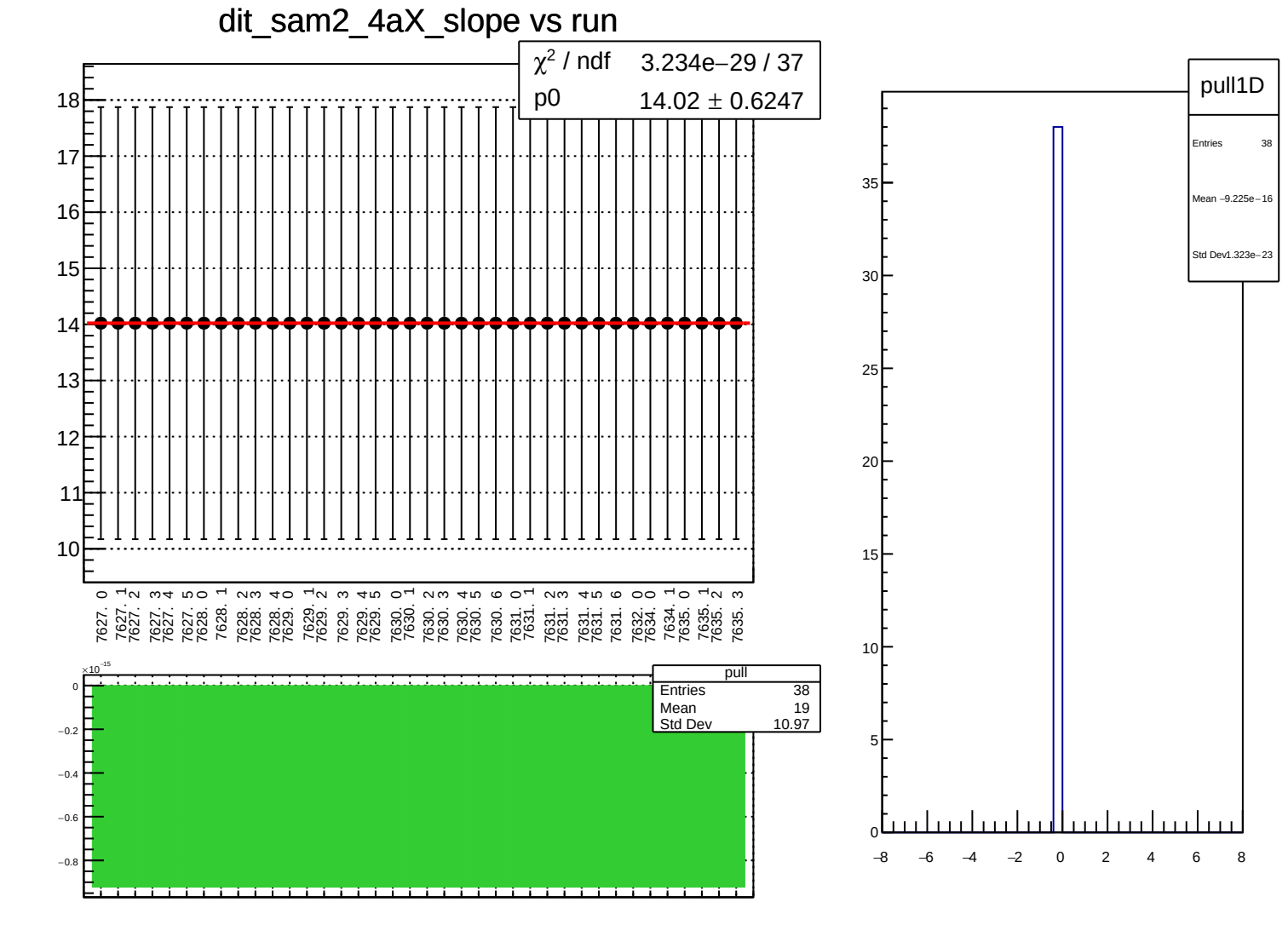

dit_sam1_4eX_slope vs run
χ² / ndf 2.446e−25 / 37
p0 −15.35 ± 0.03232
−15.15
−15.2
−15.25
−15.3
−15.35
−15.4
−15.45
−15.5
−15.55
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
×10⁻¹⁵
pull
Entries 38
Mean 19
Std Dev 10.97
pull1D
Entries 38
Mean 8.023e−14
Std Dev2.396e−21

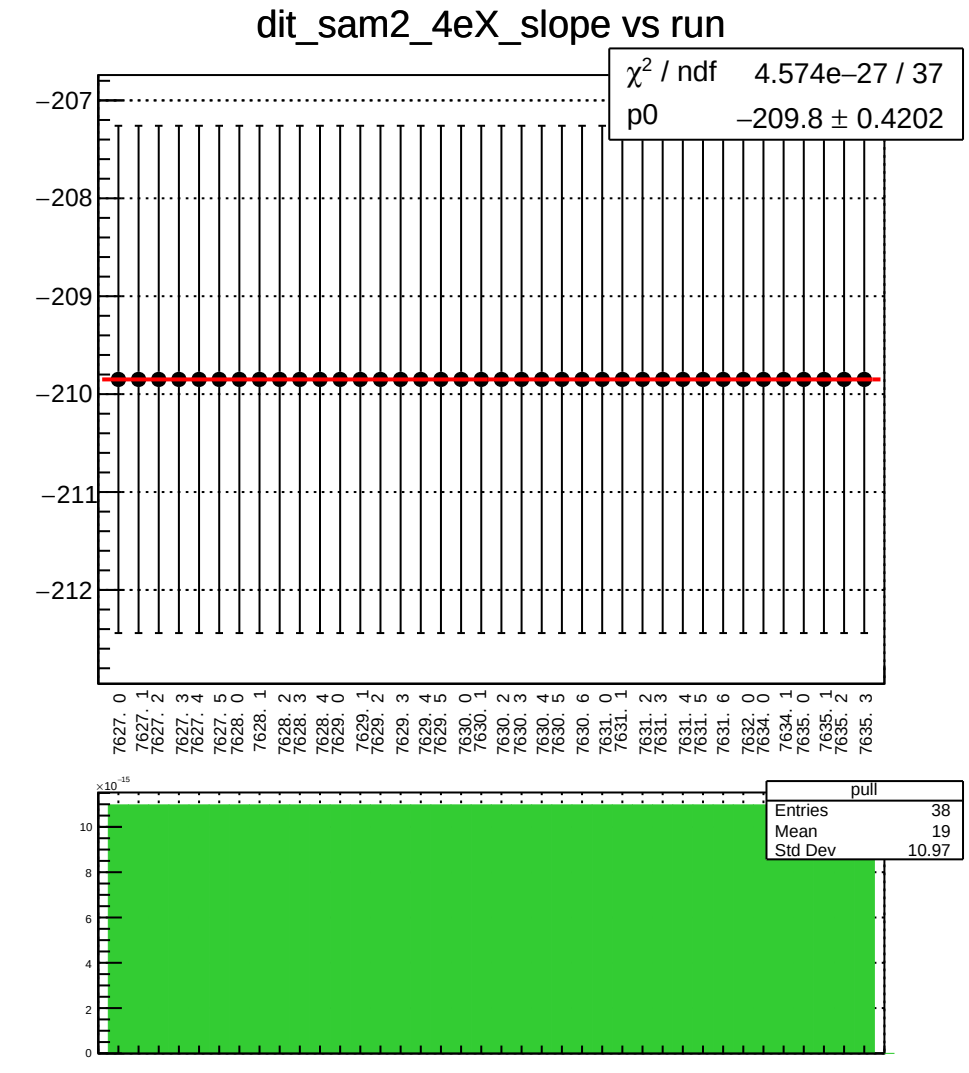

dit_sam1_11X12X_slope vs run
χ² / ndf 8.204e−28 / 37
p0 0.5868 ± 0.0155
0.7
0.65
0.6
0.55
0.5
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
×10⁻¹⁵
0
−1
−2
−3
−4
pull
Entries 38
Mean 19
Std Dev 10.97
pull1D
Entries 38
Mean −4.646e−15
Std Dev1.588e−22
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

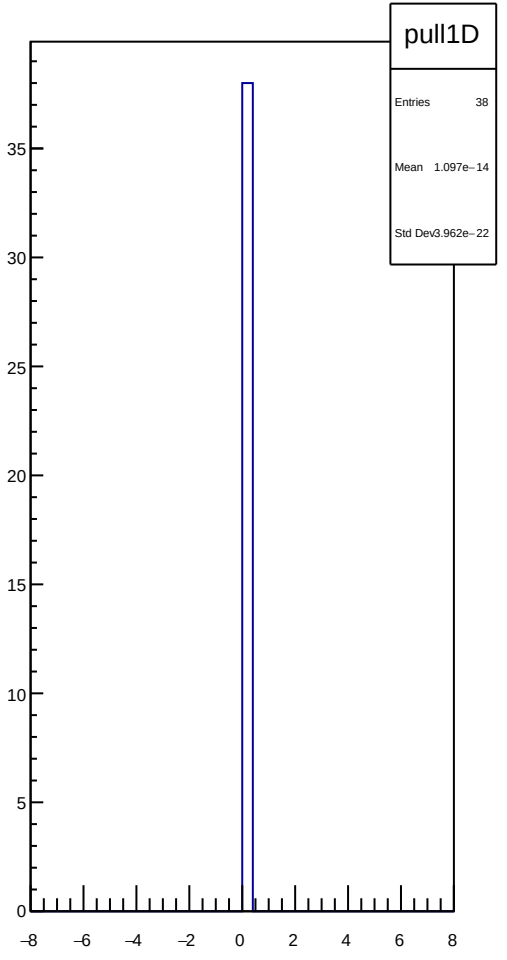

dit_sam1_4aY_slope vs run
χ² / ndf 1.652e−27 / 37
p0 −50.89 ± 0.3496
−49
−50
−51
−52
−53
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
×10⁻¹⁵
0
−1
−2
−3
−4
−5
−6
pull
Entries 38
Mean 19
Std Dev 10.97

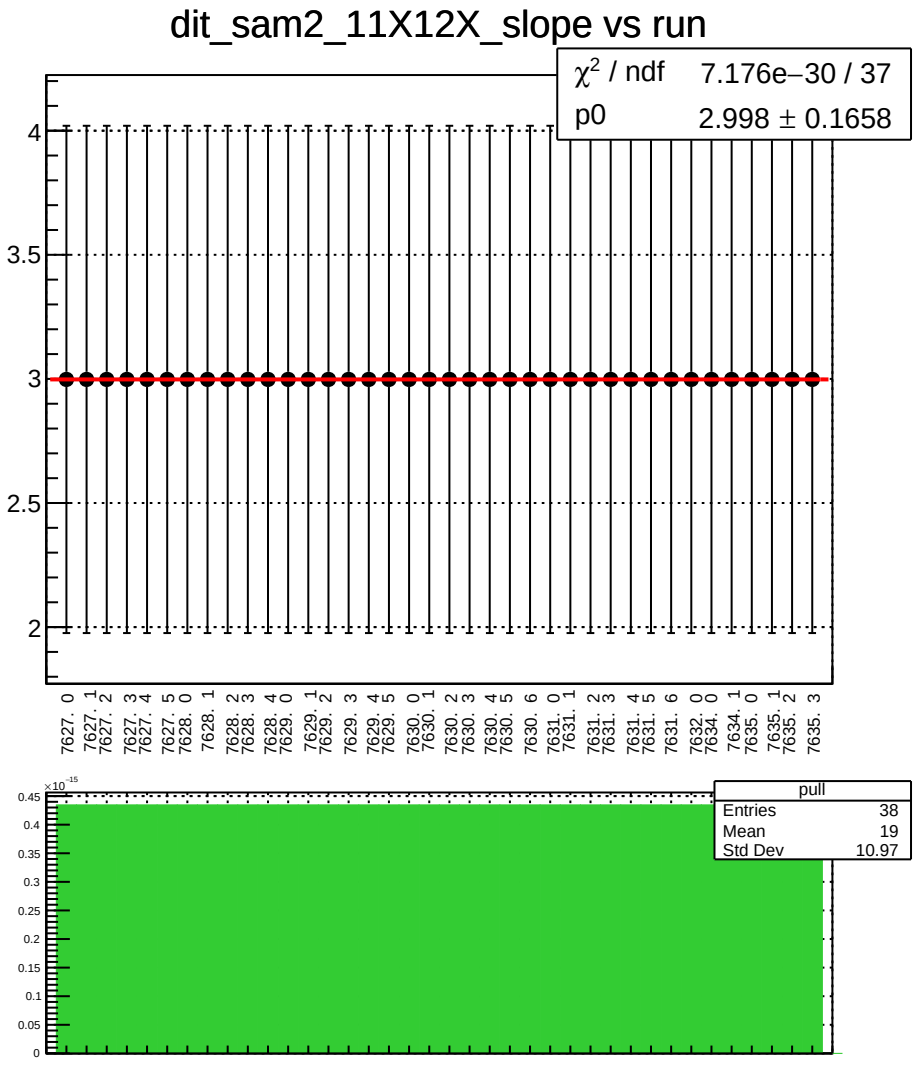

pull1D
Entries 38
Mean −6.594e−15
Std Dev2.995e−22
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

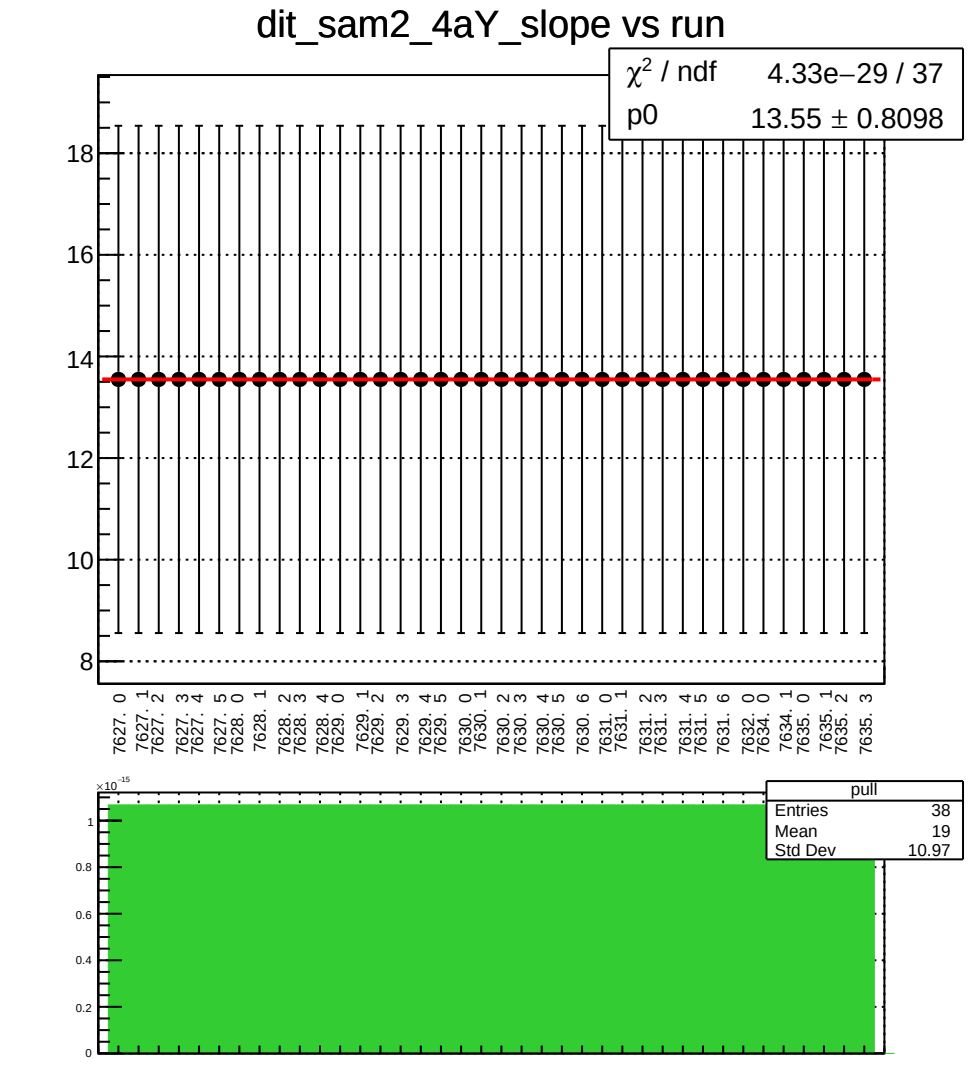

dit_sam1_4eY_slope vs run
χ² / ndf 5.663e−30 / 37
p0 2.867 ± 0.3732
pull
Entries 38
Mean 19
Std Dev 10.97
pull1D
Entries 38
Mean −3.86e−16
Std Dev 6.617e−24

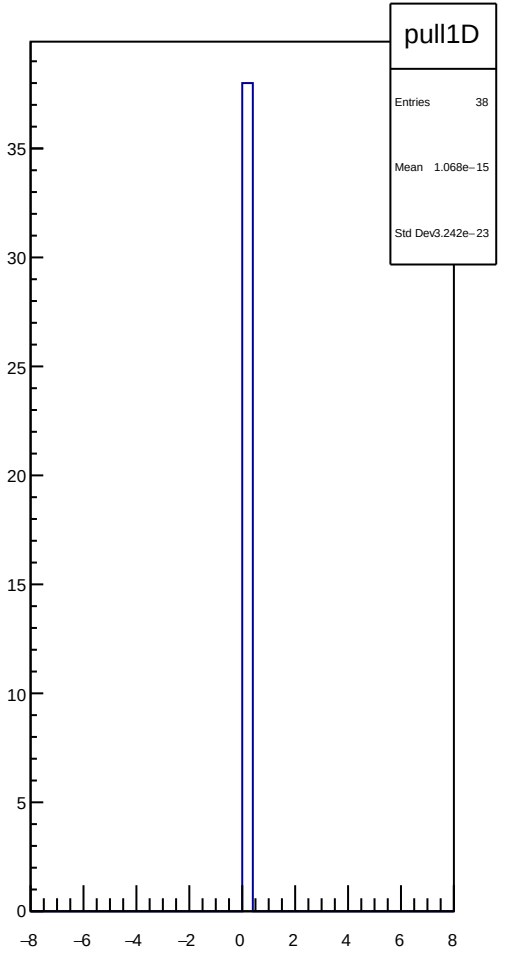

dit_sam2_4aX_slope vs run
χ² / ndf 3.234e−29 / 37
p0 14.02 ± 0.6247
18
17
16
15
14
13
12
11
10
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
×10⁻¹⁵
0
−0.2
−0.4
−0.6
−0.8
pull
Entries 38
Mean 19
Std Dev 10.97
pull1D
Entries 38
Mean −9.225e−16
Std Dev1.323e−23
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

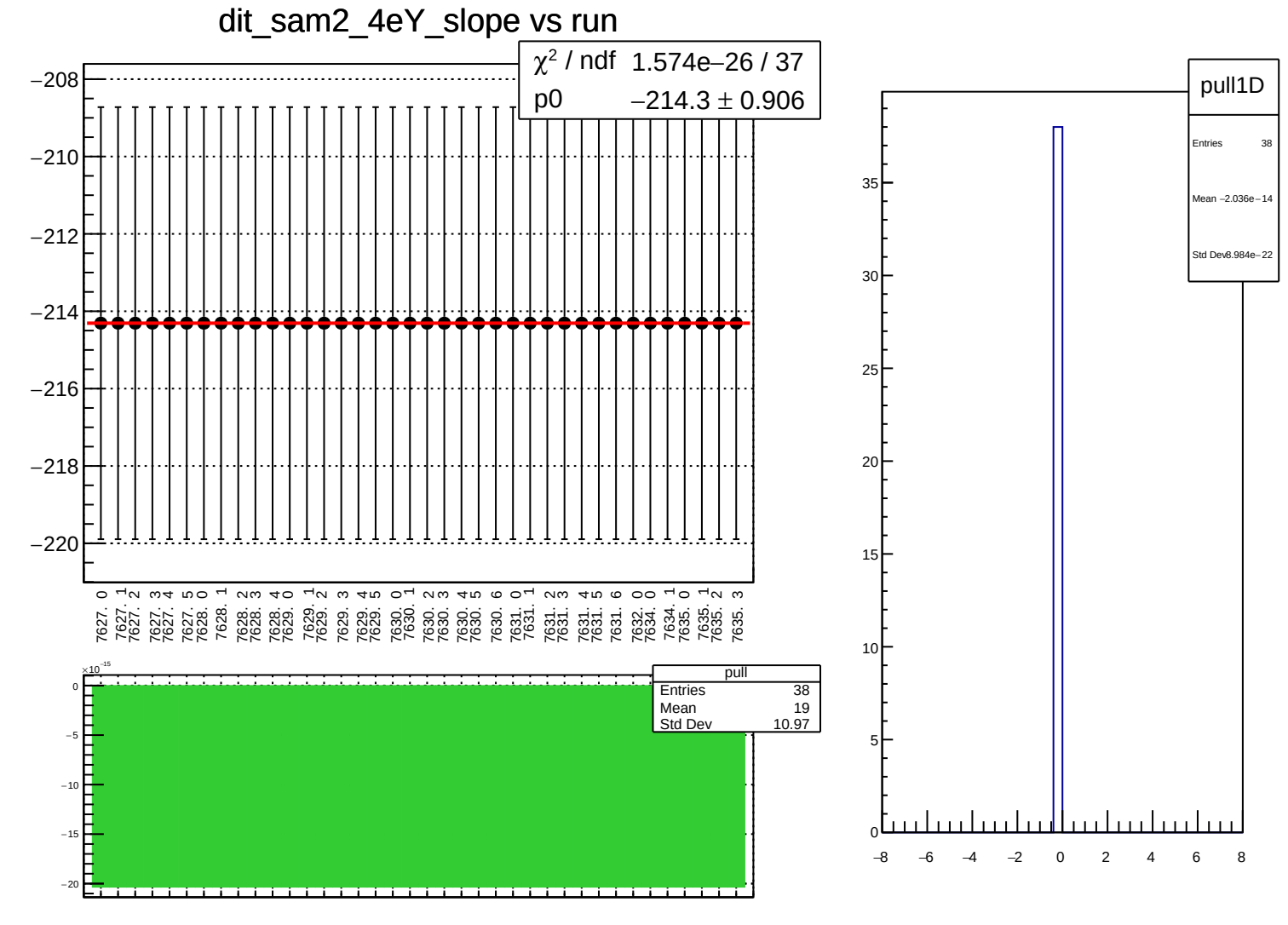

dit_sam2_4eX_slope vs run
χ² / ndf 4.574e−27 / 37
p0 −209.8 ± 0.4202
−207
−208
−209
−210
−211
−212
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
×10⁻¹⁵
10
8
6
4
2
0
pull
Entries 38
Mean 19
Std Dev 10.97

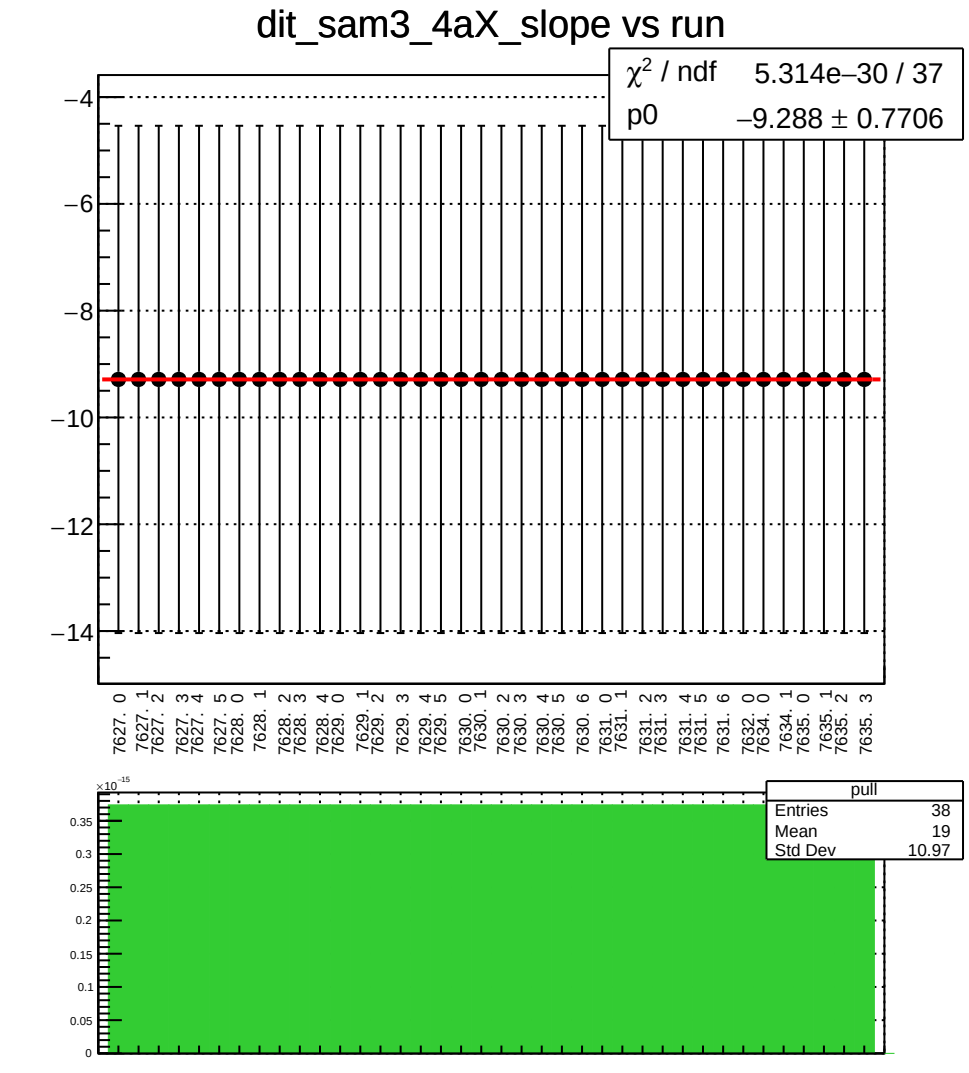

pull1D
Entries 38
Mean 1.097e−14
Std Dev 3.962e−22
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

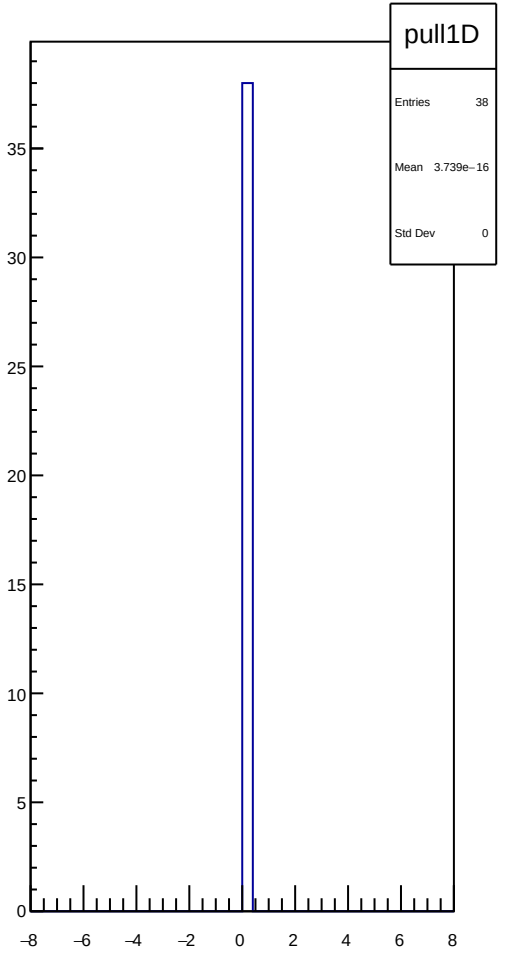

dit_sam2_11X12X_slope vs run
χ² / ndf 7.176e−30 / 37
p0 2.998 ± 0.1658
4
3.5
3
2.5
2
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
×10⁻¹⁵
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
pull
Entries 38
Mean 19
Std Dev 10.97
pull1D
Entries 38
Mean 4.345e−16
Std Dev 8.105e−24
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

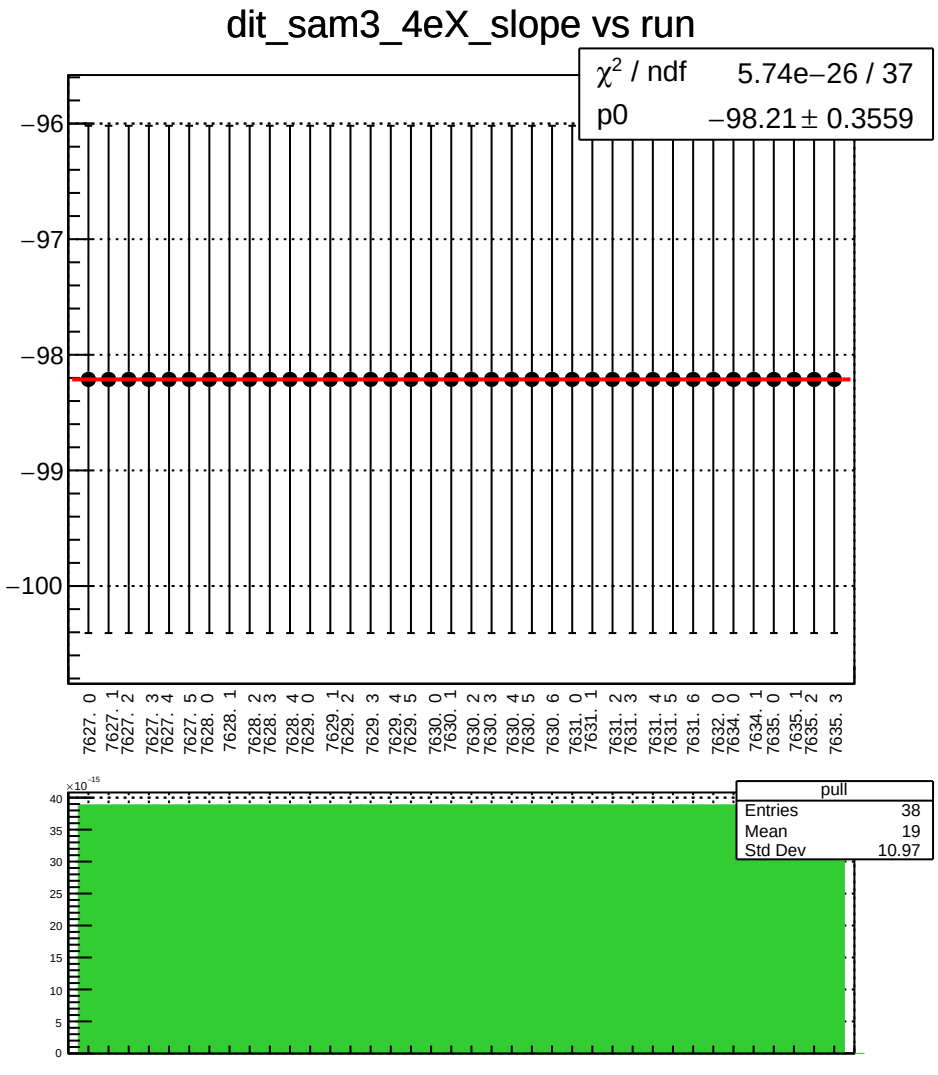

dit_sam2_4aY_slope vs run
χ² / ndf 4.33e−29 / 37
p0 13.55 ± 0.8098
18
16
14
12
10
8
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
×10⁻¹⁵
1
0.8
0.6
0.4
0.2
0
pull
Entries 38
Mean 19
Std Dev 10.97

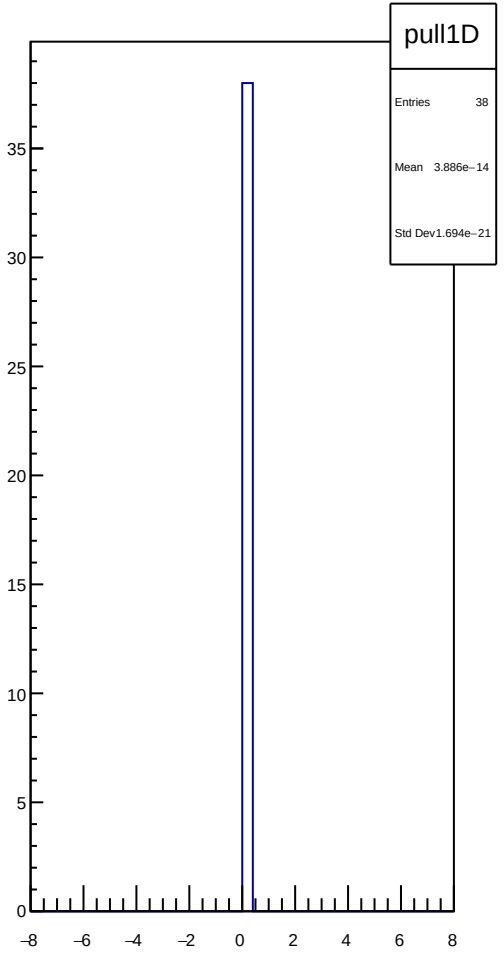

pull1D
Entries 38
Mean 1.068e−15
Std Dev3.242e−23
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

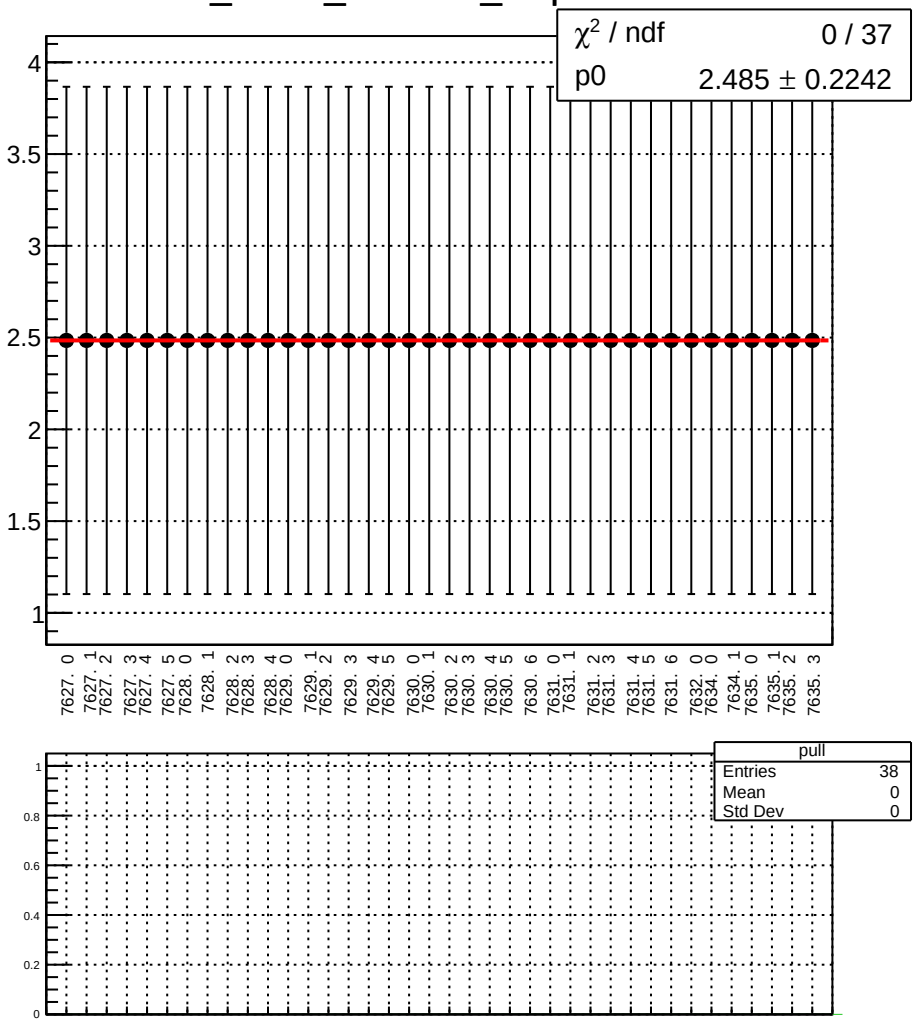

dit_sam2_4eY_slope vs run
χ² / ndf 1.574e−26 / 37
p0 −214.3 ± 0.906
−208
−210
−212
−214
−216
−218
−220
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
×10⁻¹⁵
0
−5
−10
−15
−20
pull
Entries 38
Mean 19
Std Dev 10.97
pull1D
Entries 38
Mean −2.036e−14
Std Dev 8.984e−22
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

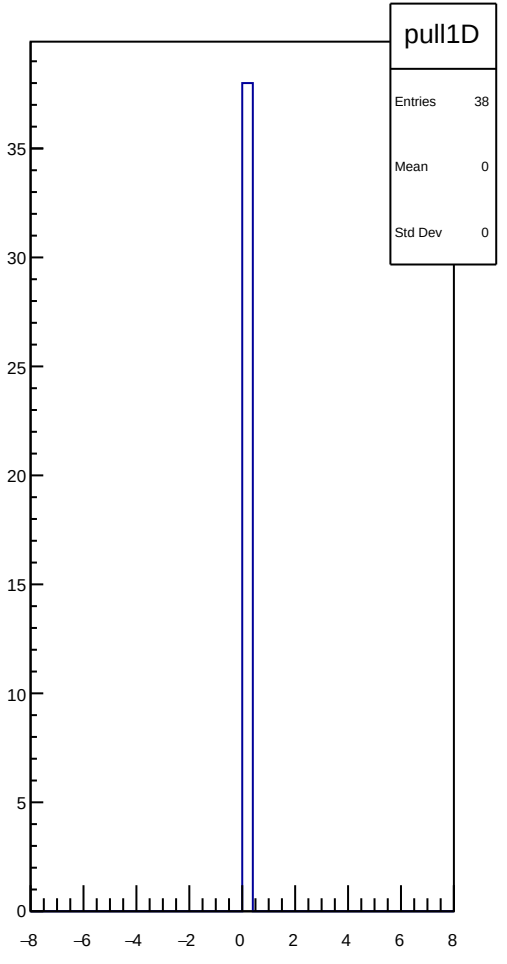

dit_sam3_4aX_slope vs run
χ² / ndf 5.314e−30 / 37
p0 −9.288 ± 0.7706
−4
−6
−8
−10
−12
−14
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
×10⁻¹⁵
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
pull
Entries 38
Mean 19
Std Dev 10.97

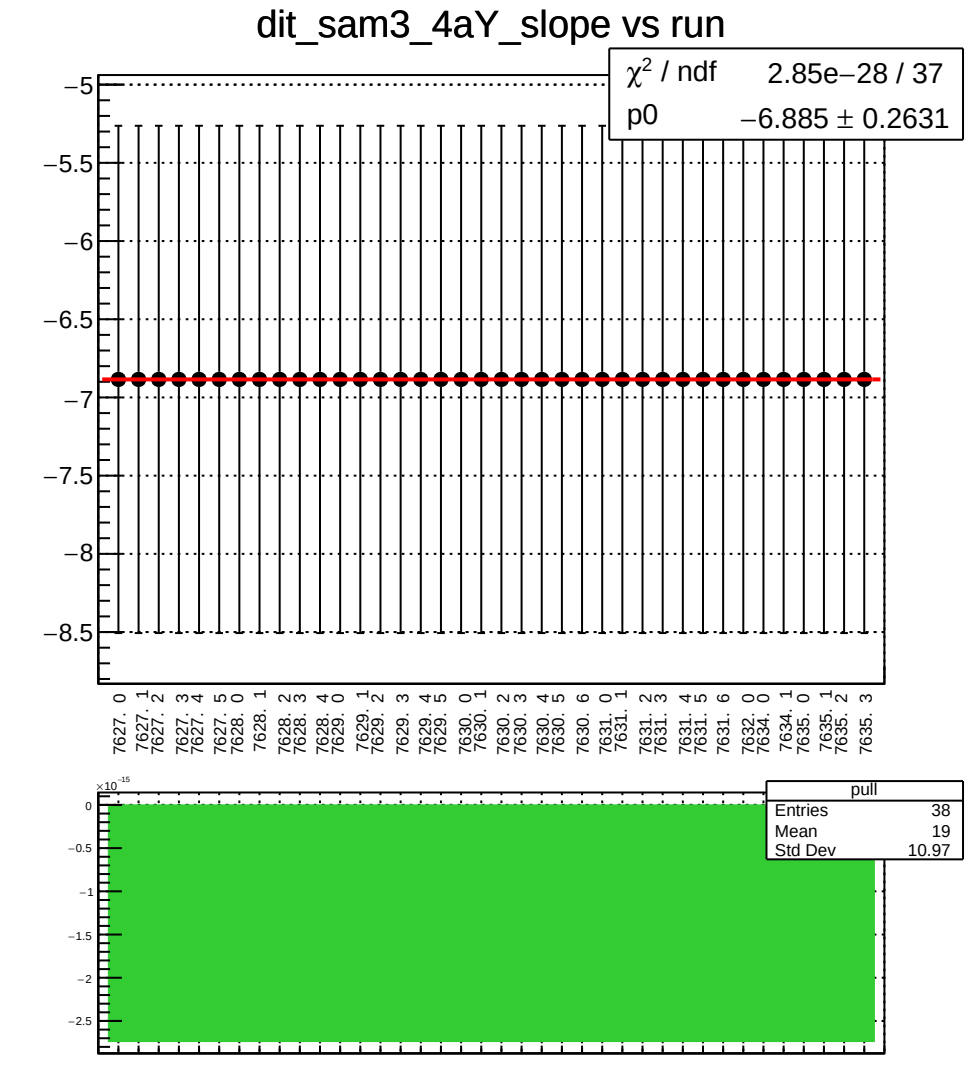

pull1D
Entries 38
Mean 3.739e−16
Std Dev 0
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

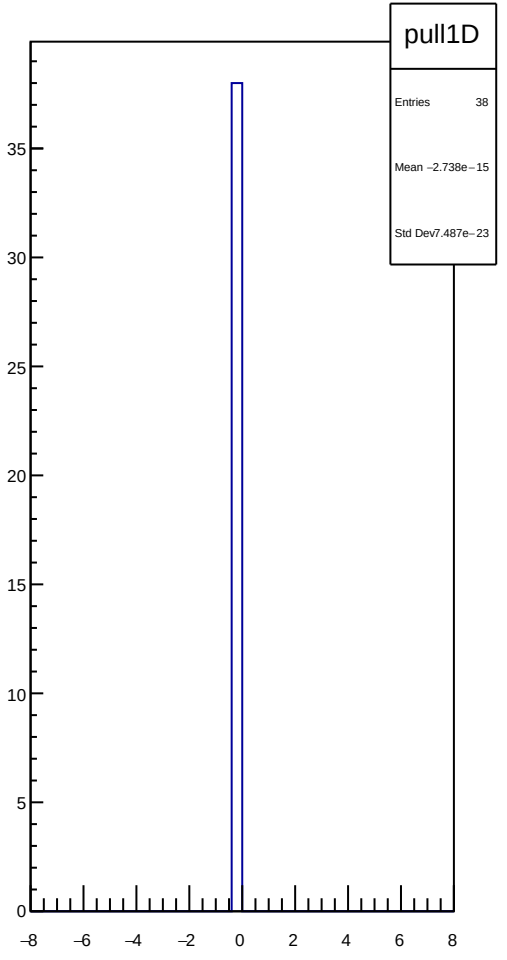

dit_sam3_4eX_slope vs run
χ² / ndf 5.74e−26 / 37
p0 −98.21 ± 0.3559
−96
−97
−98
−99
−100
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
×10⁻¹⁵
40
35
30
25
20
15
10
5
0
pull
Entries 38
Mean 19
Std Dev 10.97

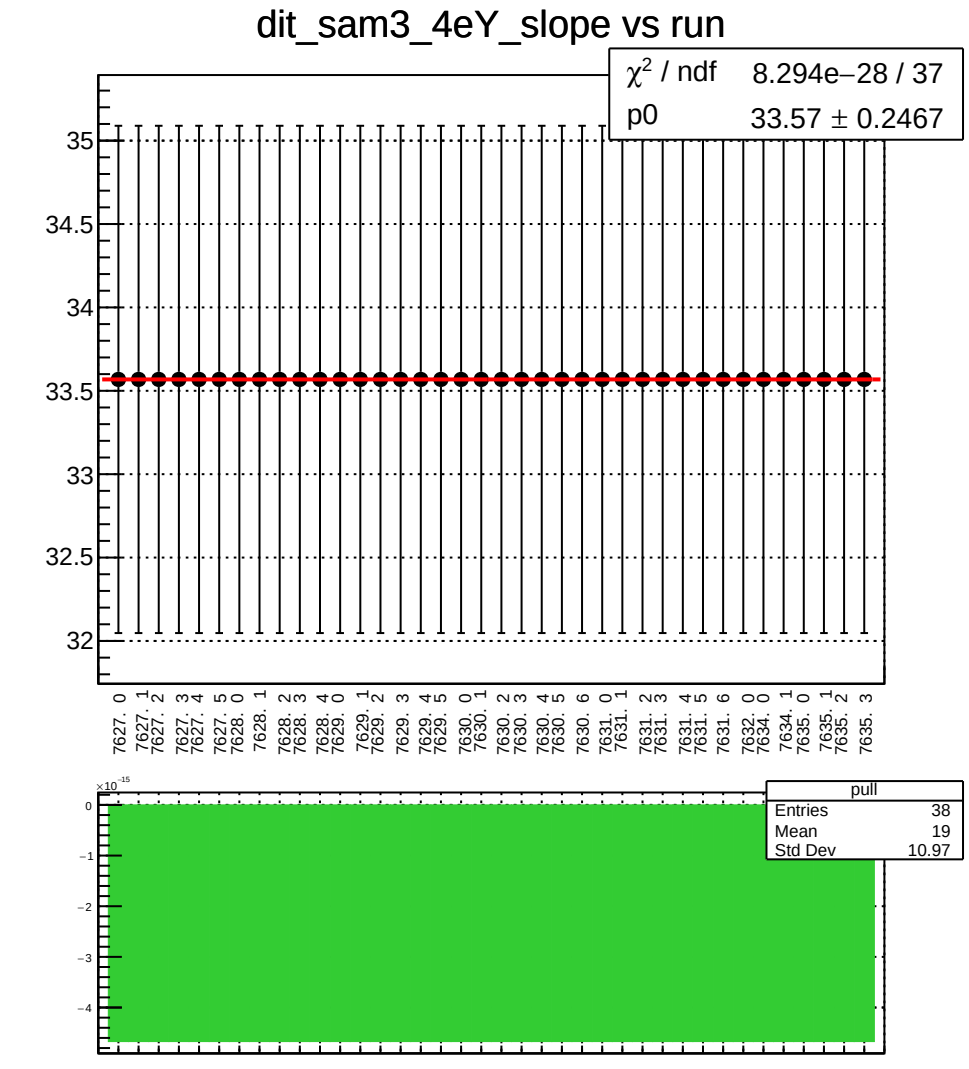

pull1D
Entries 38
Mean 3.886e−14
Std Dev1.694e−21
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

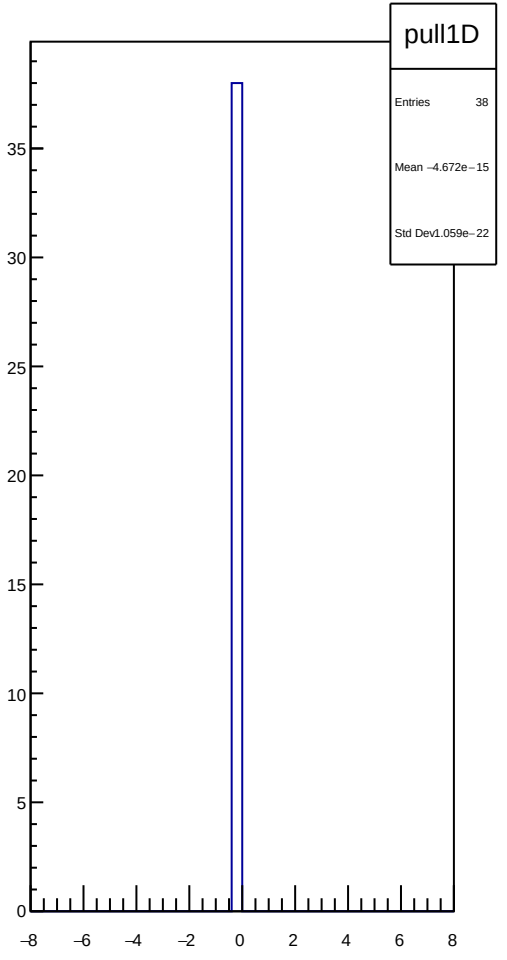

dit_sam3_11X12X_slope vs run
χ² / ndf 0 / 37
p0 2.485 ± 0.2242
4
3.5
3
2.5
2
1.5
1
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

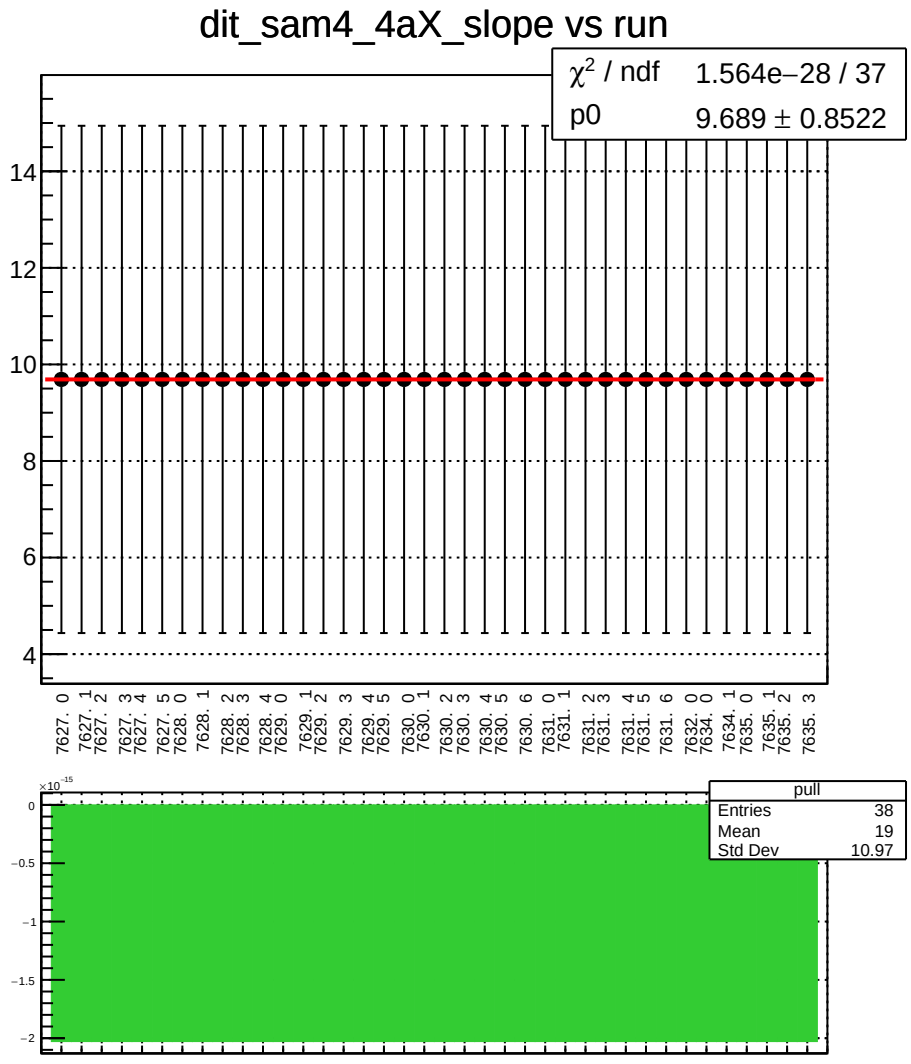

pull1D
Entries 38
Mean 0
Std Dev 0
35
30
25
20
15
10
5
0
–8
–6
–4
–2
0
2
4
6
8

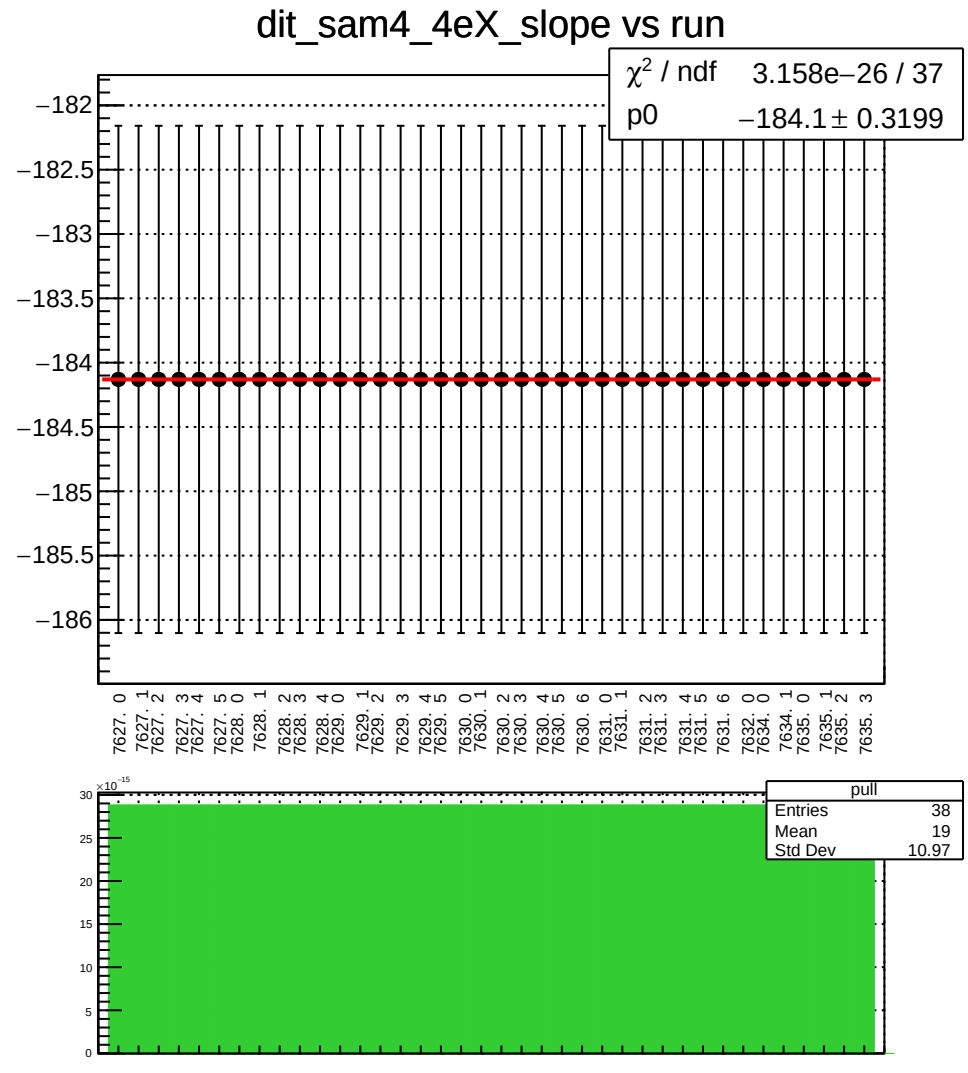

dit_sam3_4aY_slope vs run
χ² / ndf 2.85e−28 / 37
p0 −6.885 ± 0.2631
−5
−5.5
−6
−6.5
−7
−7.5
−8
−8.5
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
×10⁻�15
0
−0.5
−1
−1.5
−2
−2.5
pull
Entries 38
Mean 19
Std Dev 10.97

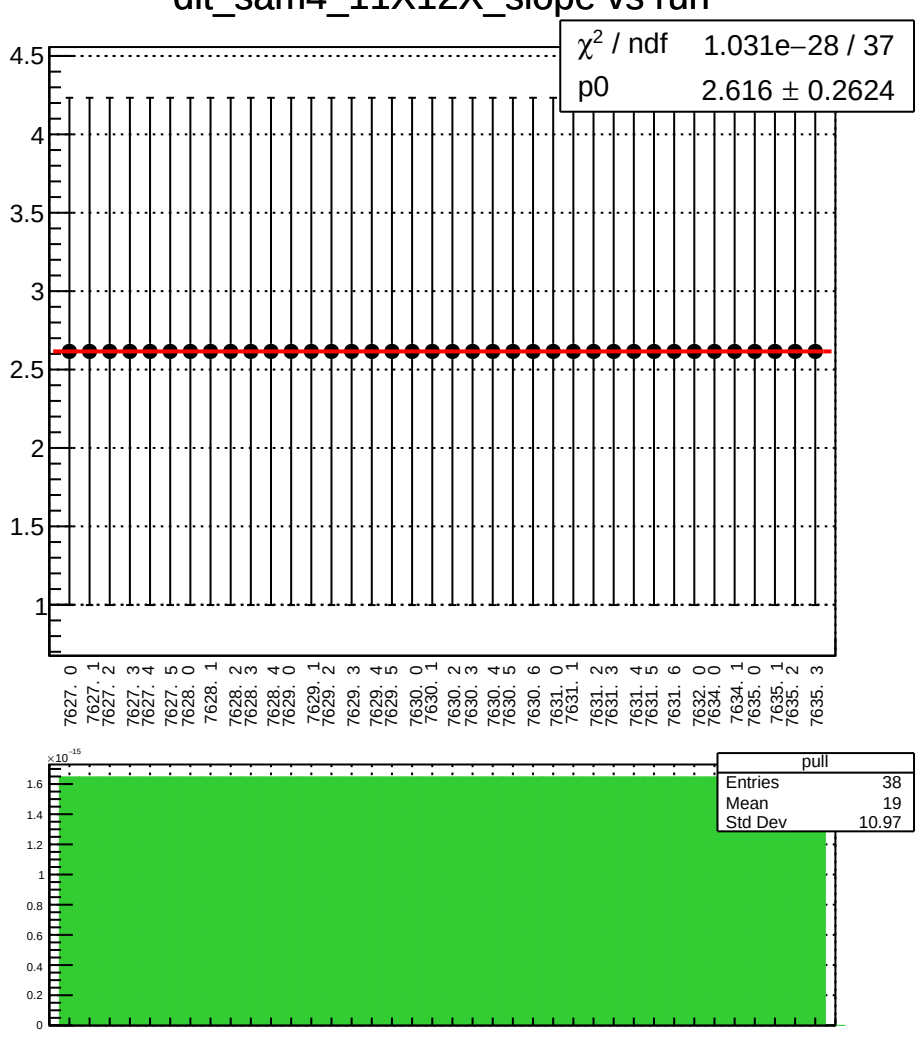

pull1D
Entries 38
Mean −2.738e−15
Std Dev7.487e−23
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

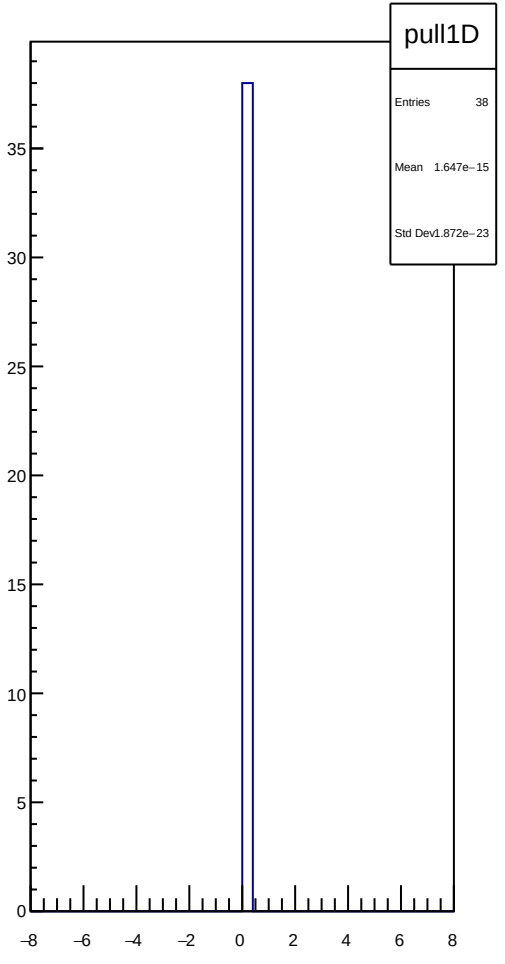

dit_sam3_4eY_slope vs run
χ² / ndf 8.294e−28 / 37
p0 33.57 ± 0.2467
35
34.5
34
33.5
33
32.5
32
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
×10⁻¹⁵
0
−1
−2
−3
−4
pull
Entries 38
Mean 19
Std Dev 10.97

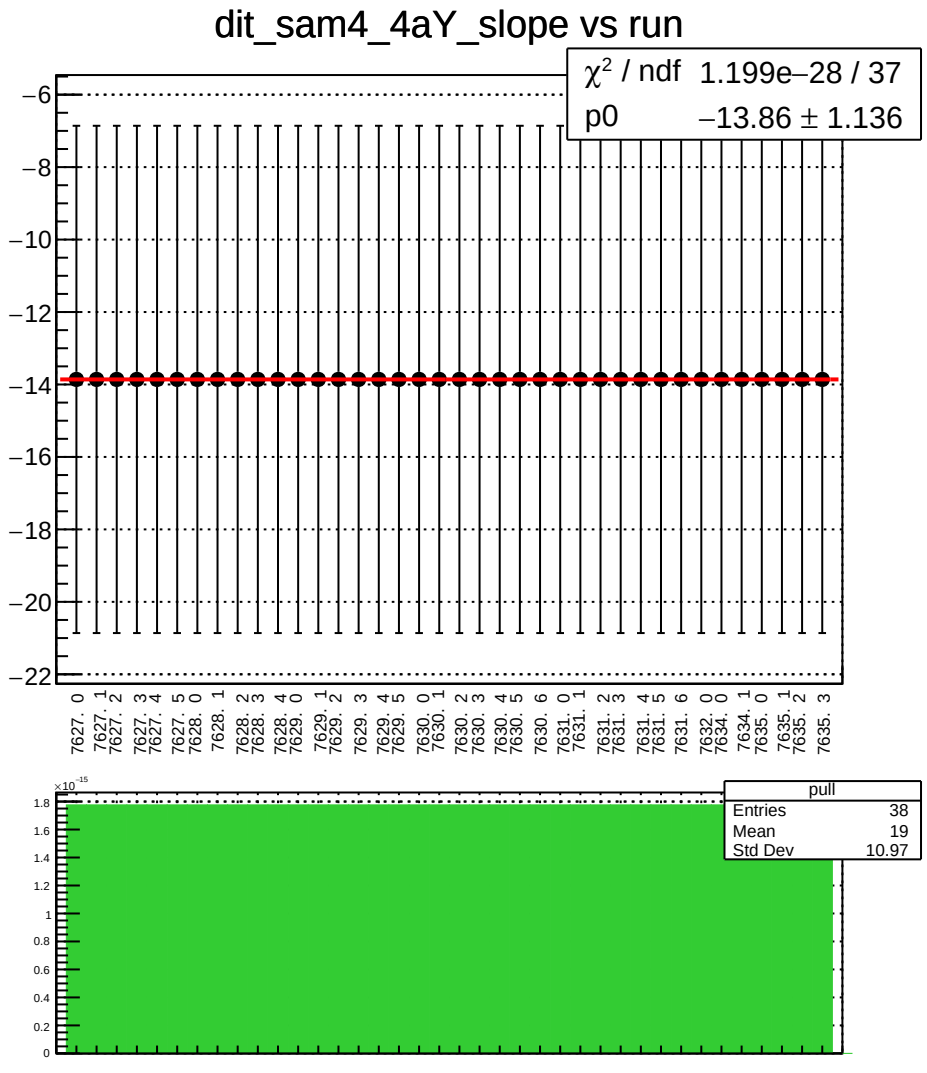

pull1D
Entries 38
Mean −4.672e−15
Std Dev1.059e−22
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

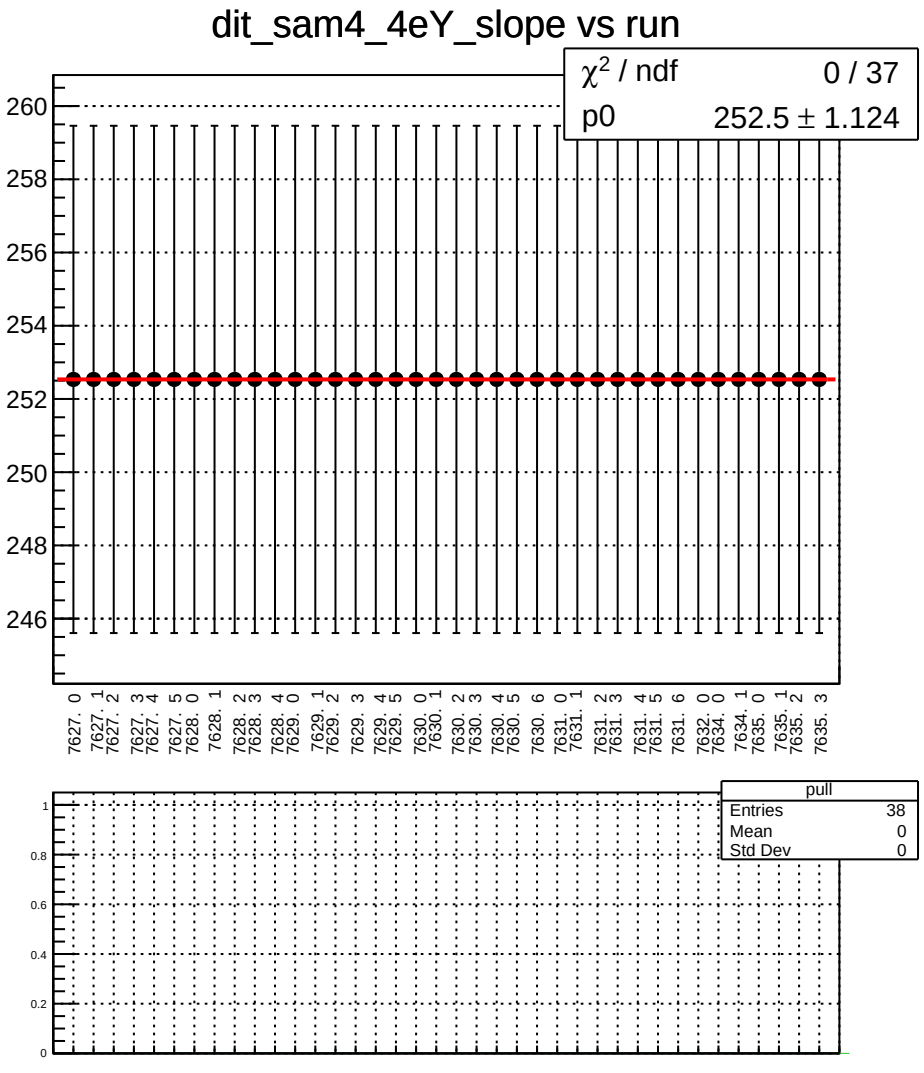

dit_sam4_4aX_slope vs run
χ² / ndf 1.564e−28 / 37
p0 9.689 ± 0.8522
14
12
10
8
6
4
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
×10⁻¹⁵
0
−0.5
−1
−1.5
−2
pull
Entries 38
Mean 19
Std Dev 10.97
pull1D
Entries 38
Mean −2.029e−15
Std Dev5.919e−23
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

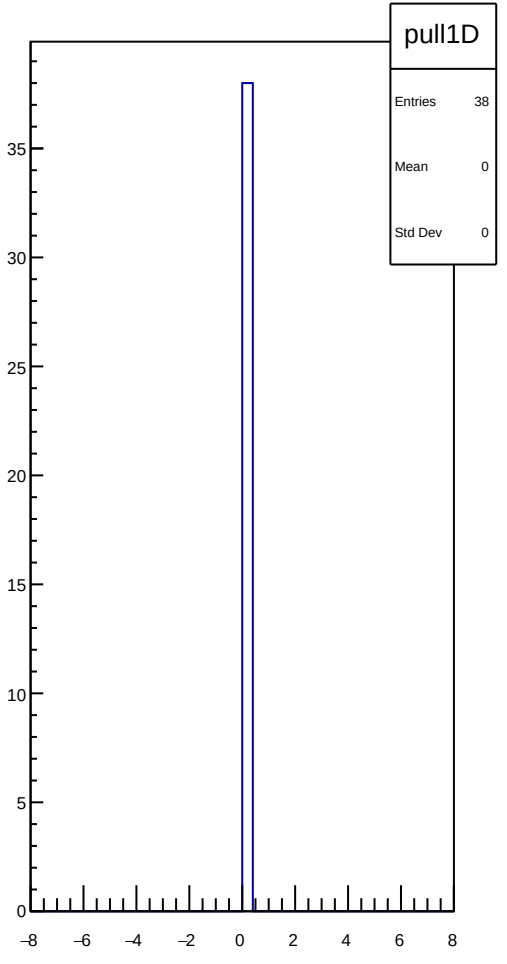

dit_sam4_4eX_slope vs run
χ² / ndf 3.158e−26 / 37
p0 −184.1 ± 0.3199
−182
−182.5
−183
−183.5
−184
−184.5
−185
−185.5
−186
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
×10⁻¹⁵
30
25
20
15
10
5
0
pull
Entries 38
Mean 19
Std Dev 10.97
pull1D
Entries 38
Mean 2.883e−14
Std Dev 5.989e−22
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

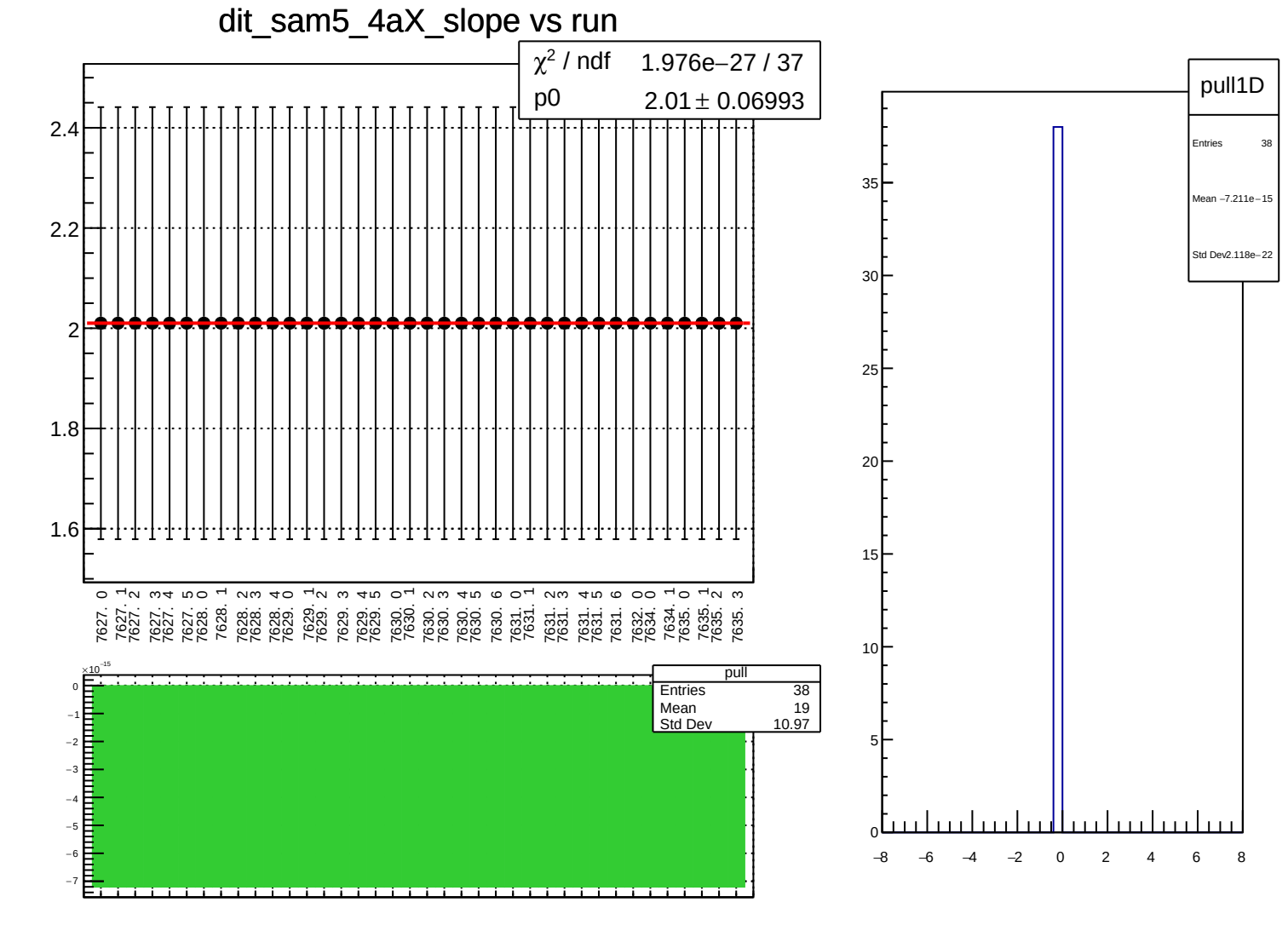

dit_sam4_11X12X_slope vs run
χ² / ndf 1.031e−28 / 37
p0 2.616 ± 0.2624
pull
Entries 38
Mean 19
Std Dev 10.97
×10⁻¹⁵

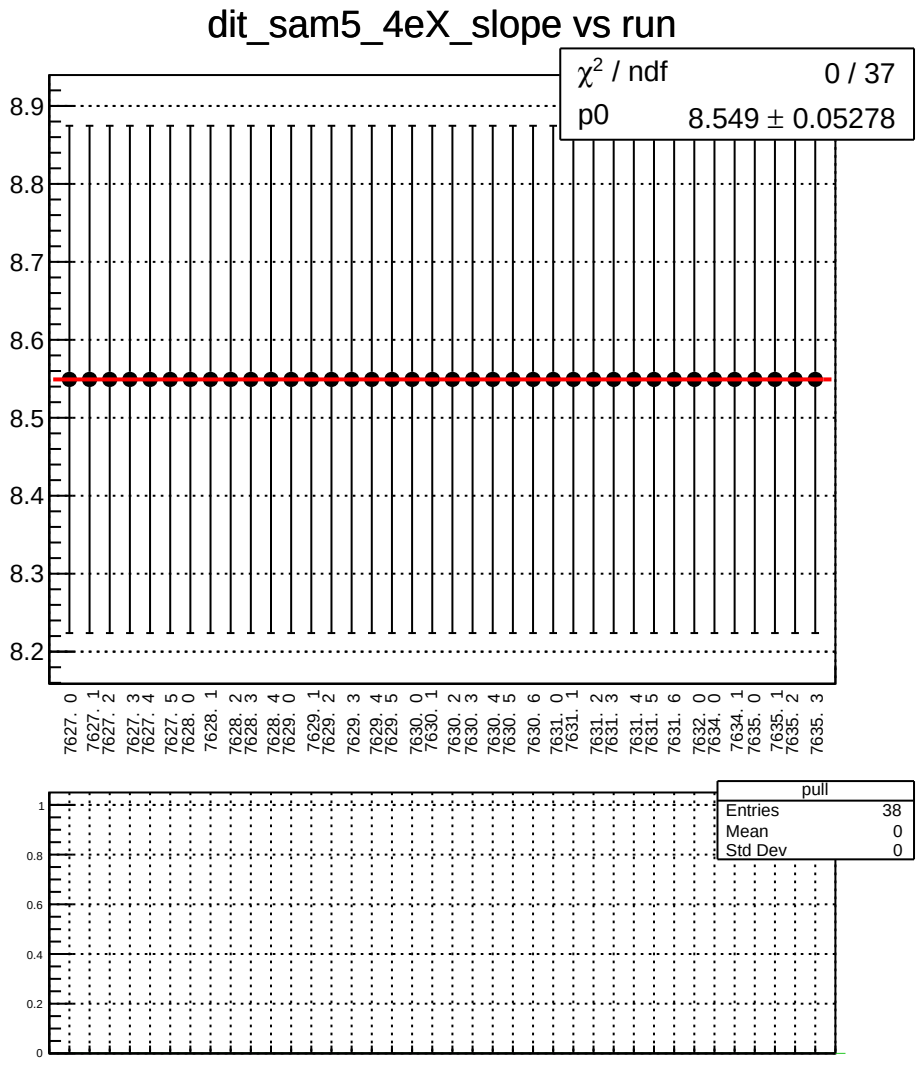

pull1D
Entries 38
Mean 1.647e−15
Std Dev1.872e−23

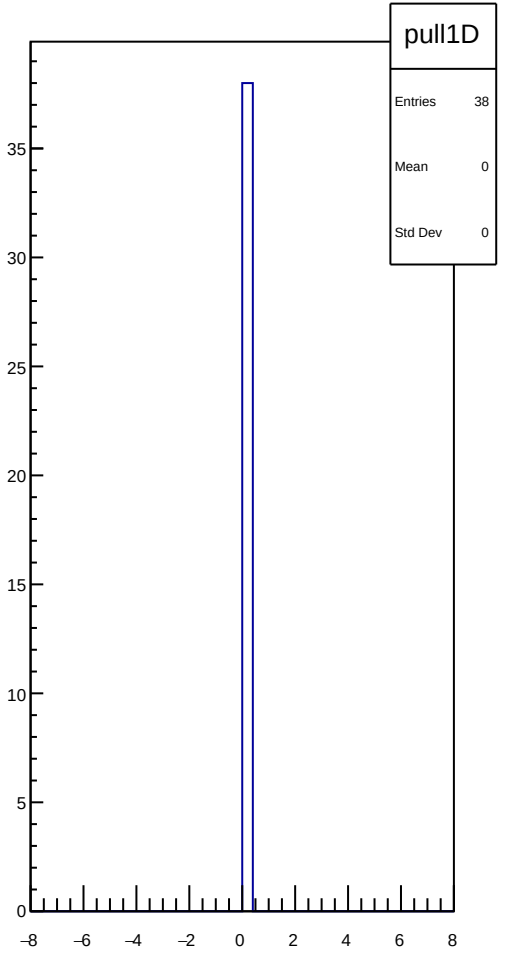

dit_sam4_4aY_slope vs run
χ² / ndf 1.199e−28 / 37
p0 −13.86 ± 1.136
−6
−8
−10
−12
−14
−16
−18
−20
−22
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
×10⁻¹⁵
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
pull
Entries 38
Mean 19
Std Dev 10.97
pull1D
Entries 38
Mean 1.776e−15
Std Dev7.487e−23
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

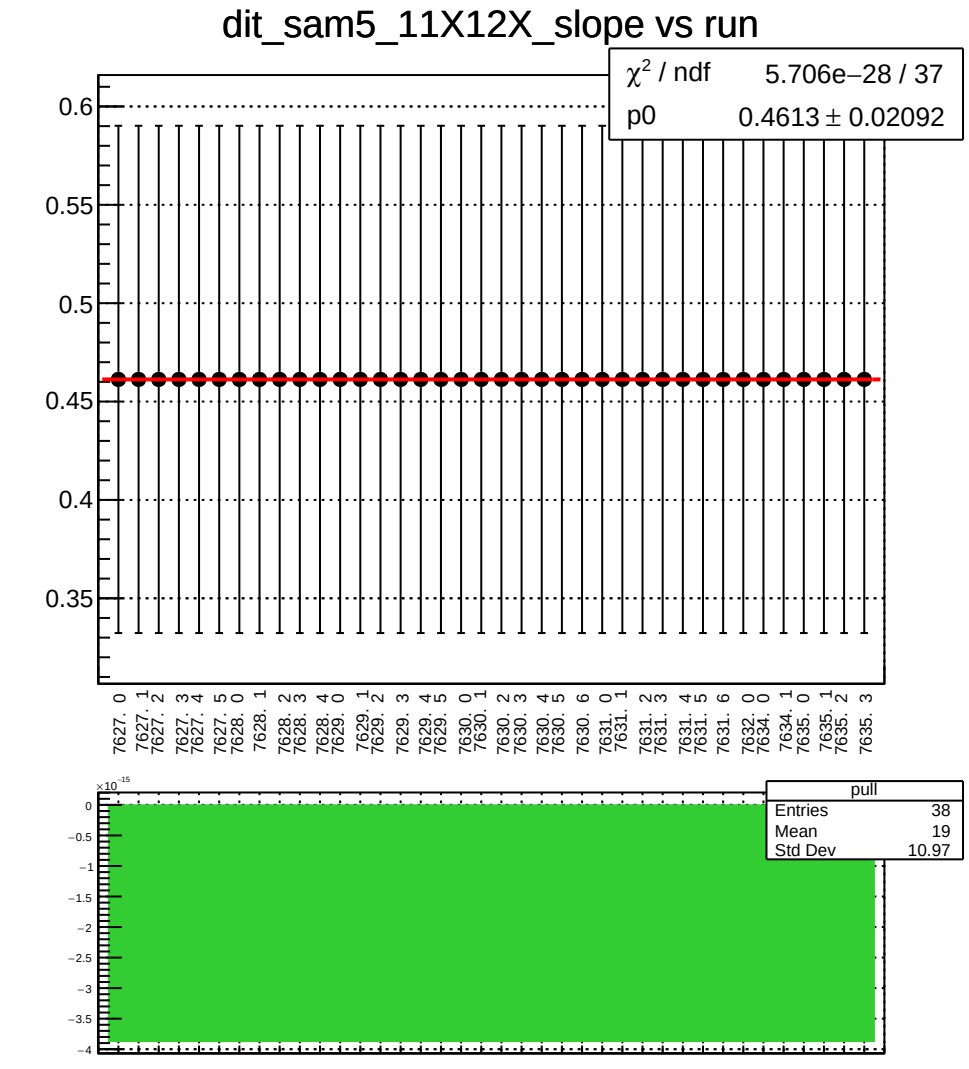

dit_sam4_4eY_slope vs run
χ² / ndf 0 / 37
p0 252.5 ± 1.124
260
258
256
254
252
250
248
246
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

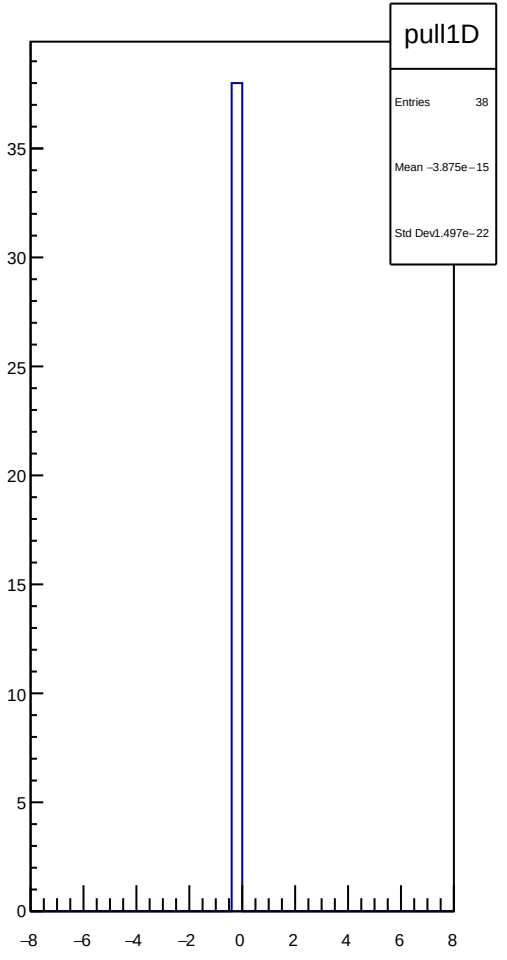

pull1D
Entries 38
Mean 0
Std Dev 0
35
30
25
20
15
10
5
0
–8
–6
–4
–2
0
2
4
6
8

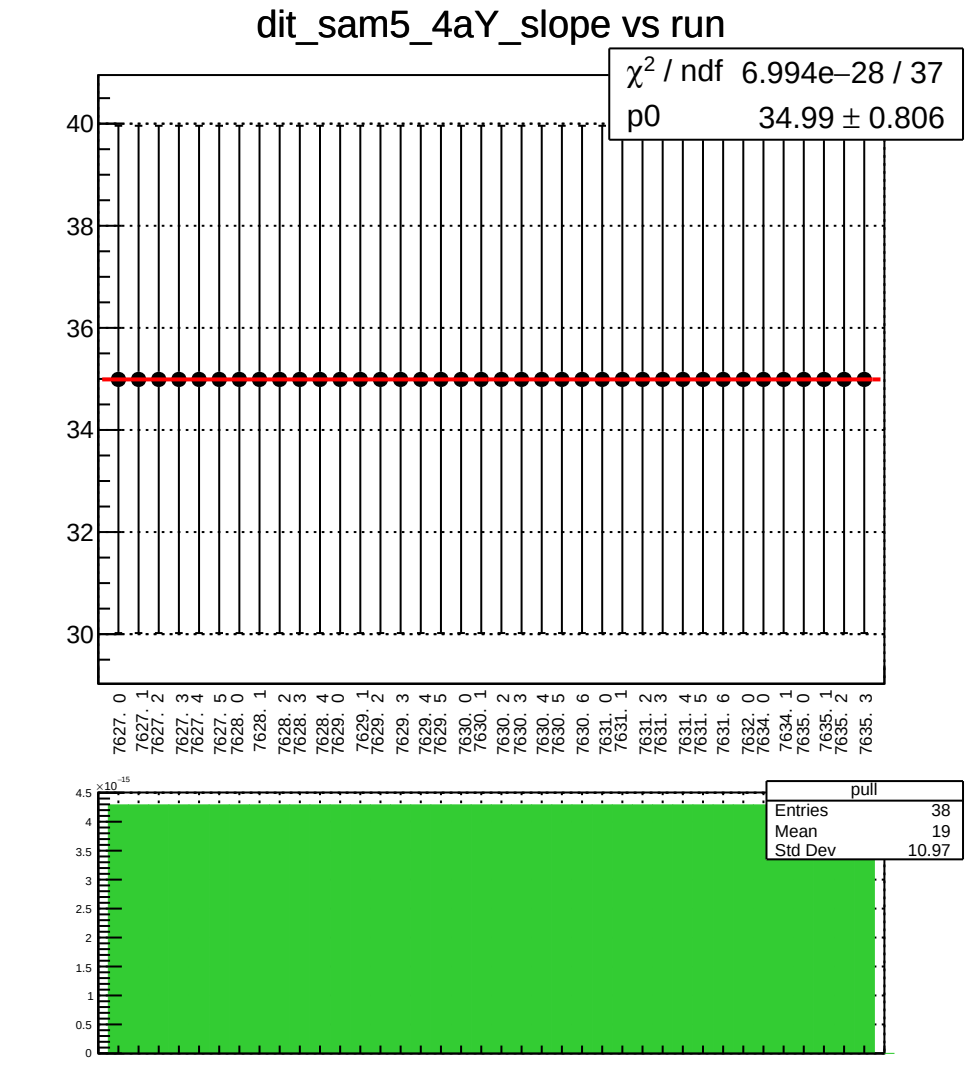

dit_sam5_4aX_slope vs run
χ^2 / ndf 1.976e−27 / 37
p0 2.01 ± 0.06993
2.4
2.2
2
1.8
1.6
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
×10^-15
0
−1
−2
−3
−4
−5
−6
−7
pull
Entries 38
Mean 19
Std Dev 10.97
pull1D
Entries 38
Mean −7.211e−15
Std Dev2.118e−22
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

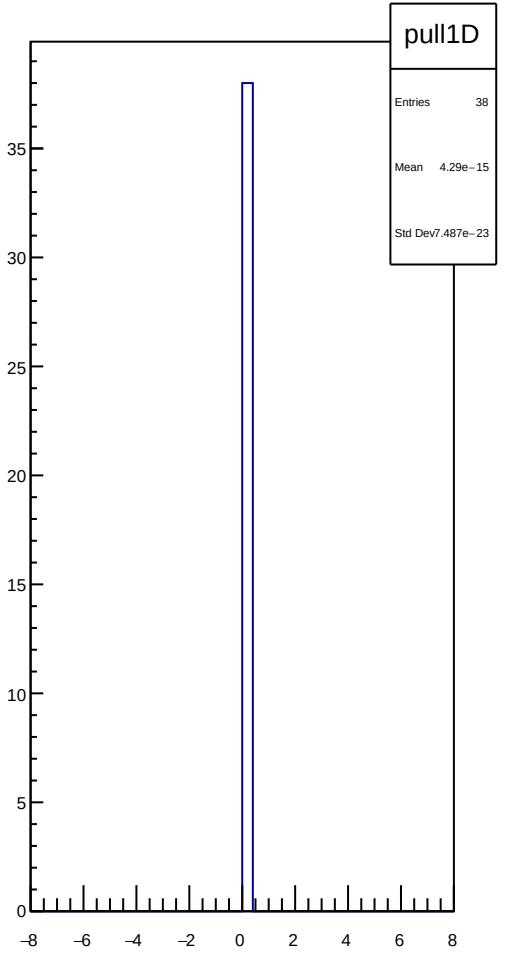

dit_sam5_4eX_slope vs run
χ² / ndf 0 / 37
p0 8.549 ± 0.05278
8.9
8.8
8.7
8.6
8.5
8.4
8.3
8.2
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

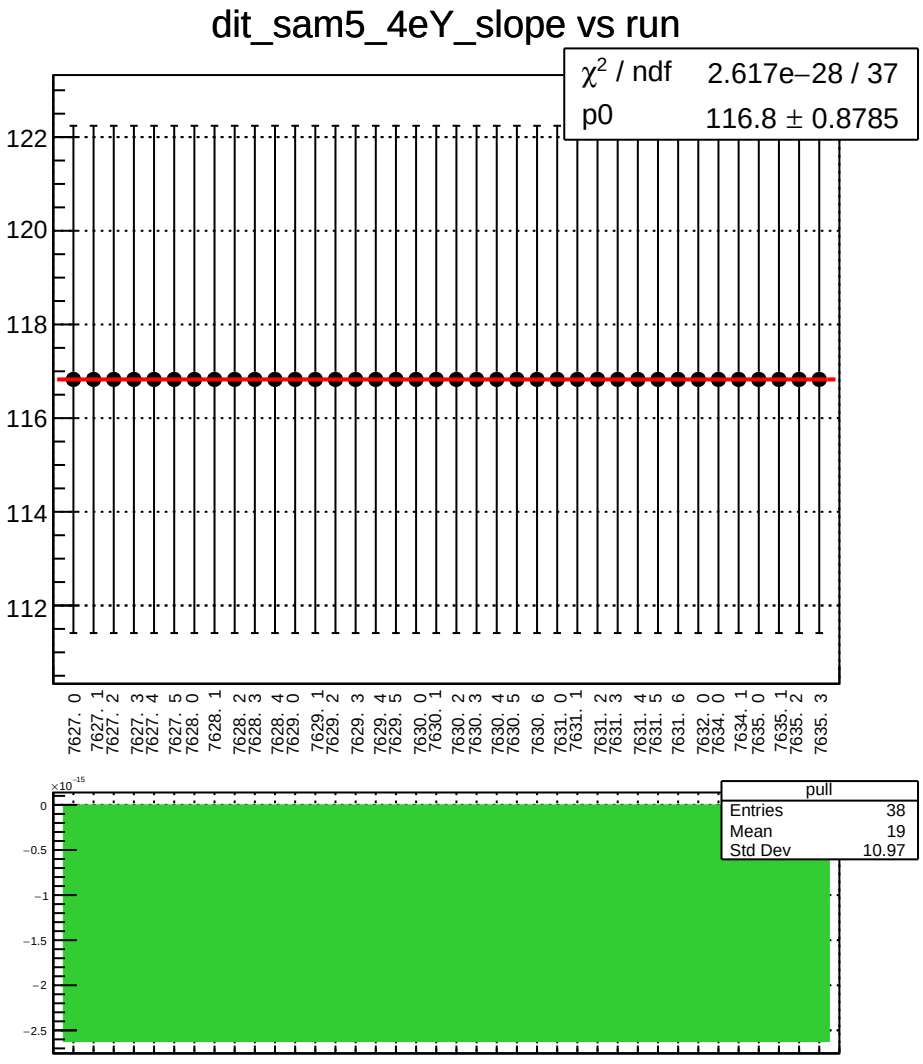

pull1D
Entries 38
Mean 0
Std Dev 0
35
30
25
20
15
10
5
0
–8
–6
–4
–2
0
2
4
6
8

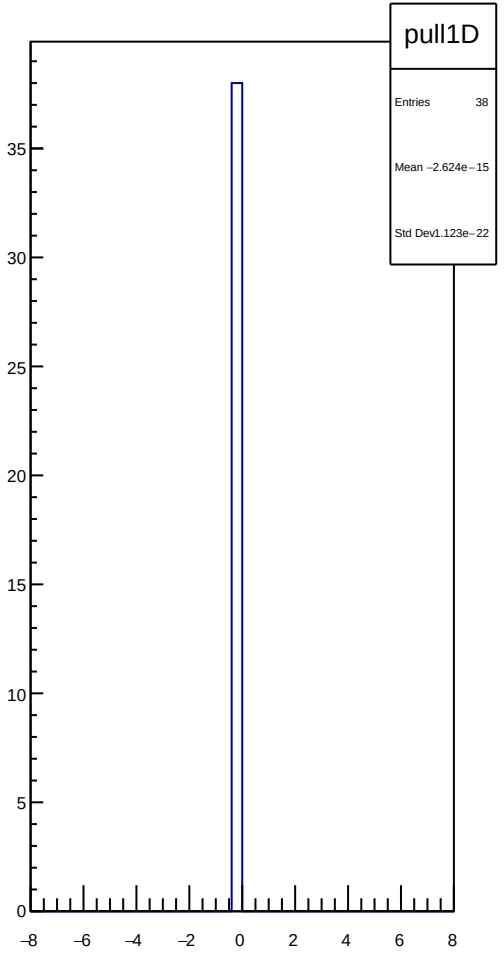

dit_sam5_11X12X_slope vs run
χ² / ndf 5.706e−28 / 37
p0 0.4613 ± 0.02092
0.6
0.55
0.5
0.45
0.4
0.35
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
×10⁻¹⁵
0
−0.5
−1
−1.5
−2
−2.5
−3
−3.5
−4
pull
Entries 38
Mean 19
Std Dev 10.97

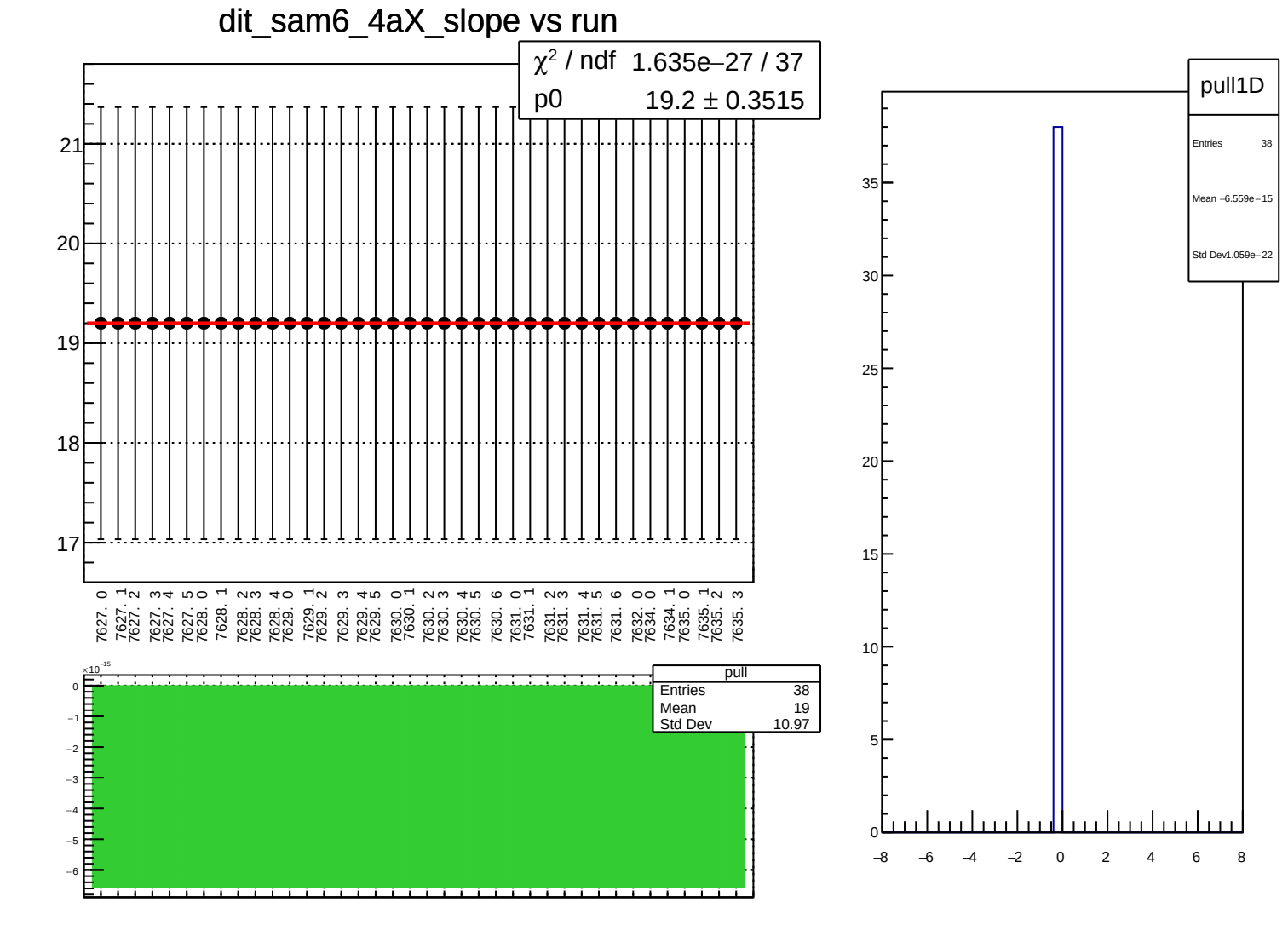

pull1D
Entries 38
Mean −3.875e−15
Std Dev1.497e−22
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

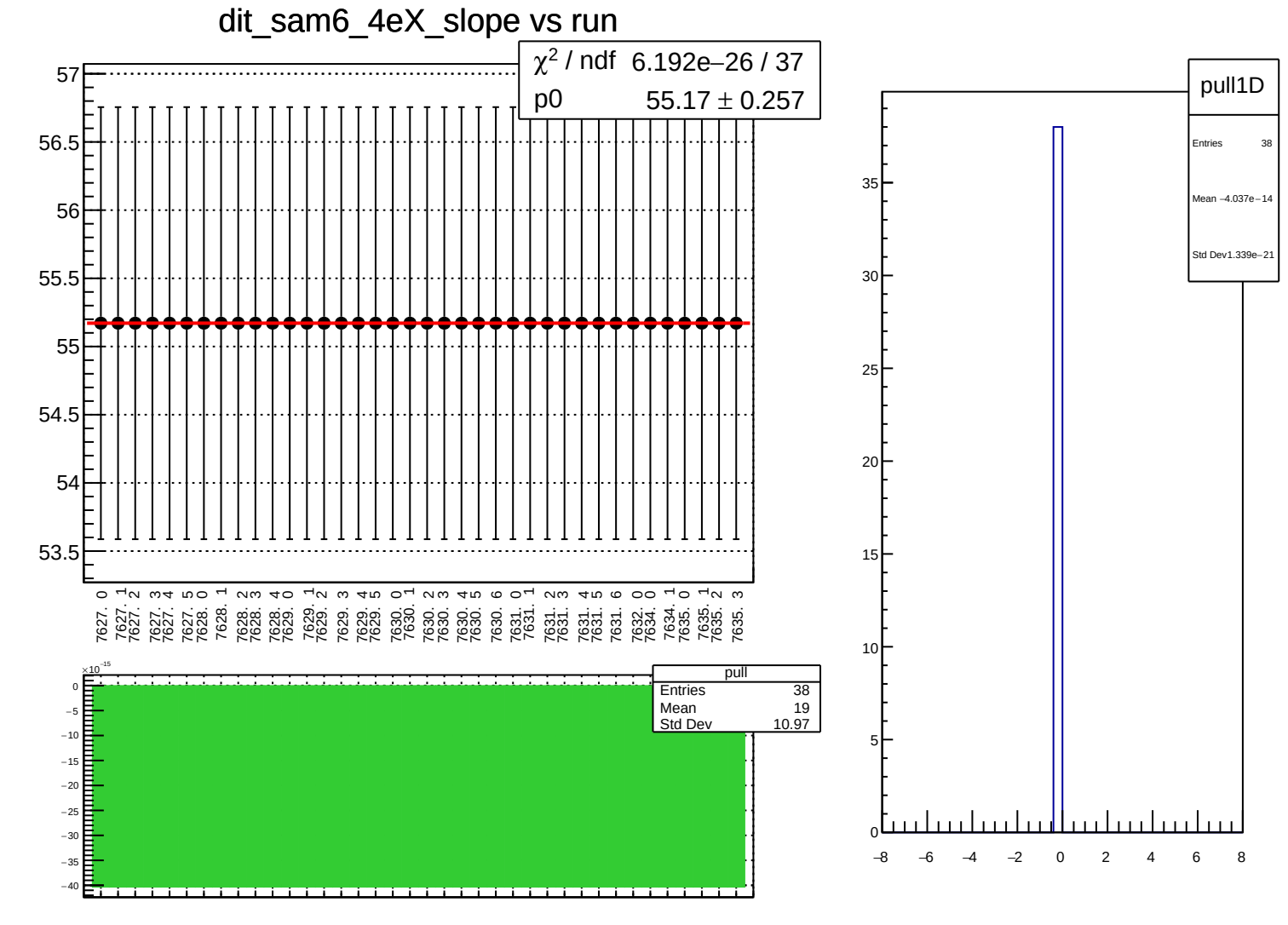

dit_sam5_4aY_slope vs run
χ² / ndf 6.994e−28 / 37
p0 34.99 ± 0.806
40
38
36
34
32
30
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
×10⁻�15
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
pull
Entries 38
Mean 19
Std Dev 10.97

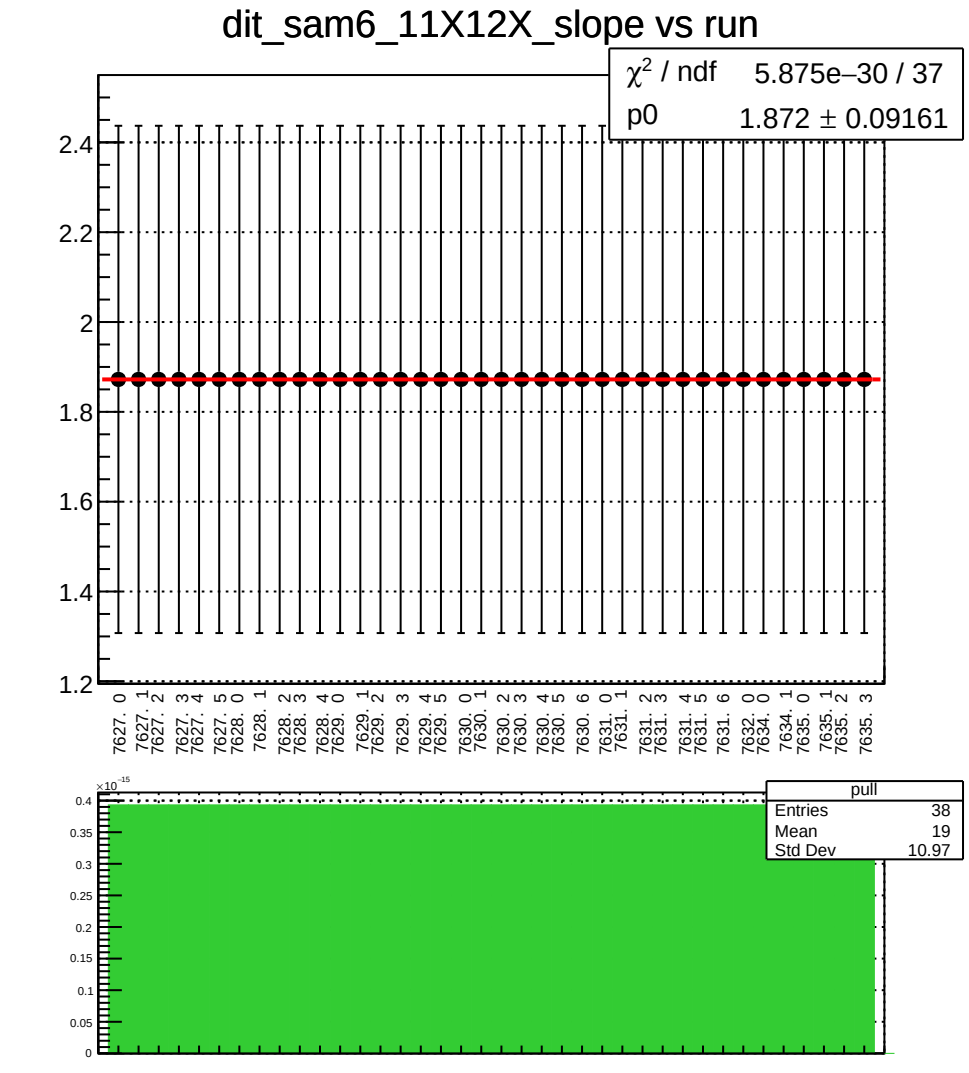

pull1D
Entries 38
Mean 4.29e−15
Std Dev7.487e−23
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

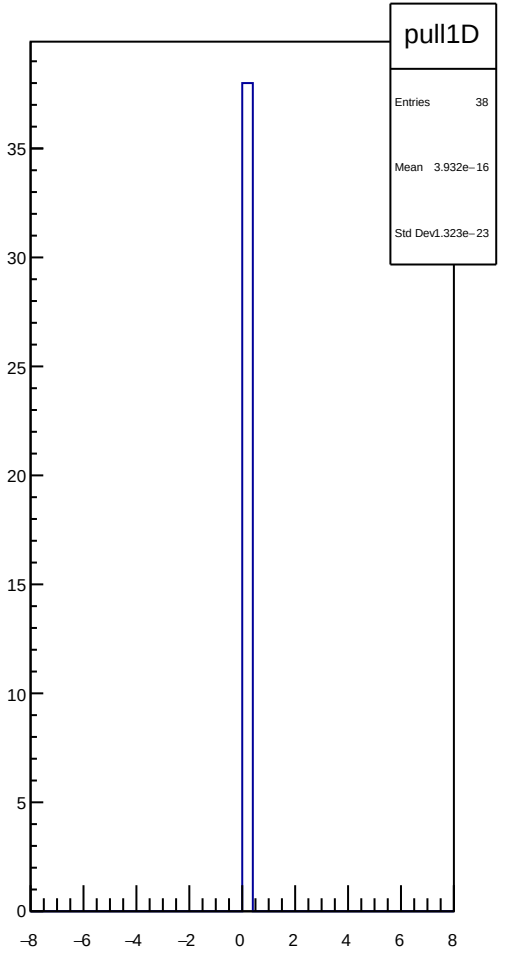

dit_sam5_4eY_slope vs run
χ² / ndf 2.617e−28 / 37
p0 116.8 ± 0.8785
122
120
118
116
114
112
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
×10⁻¹⁵
0
−0.5
−1
−1.5
−2
−2.5
pull
Entries 38
Mean 19
Std Dev 10.97

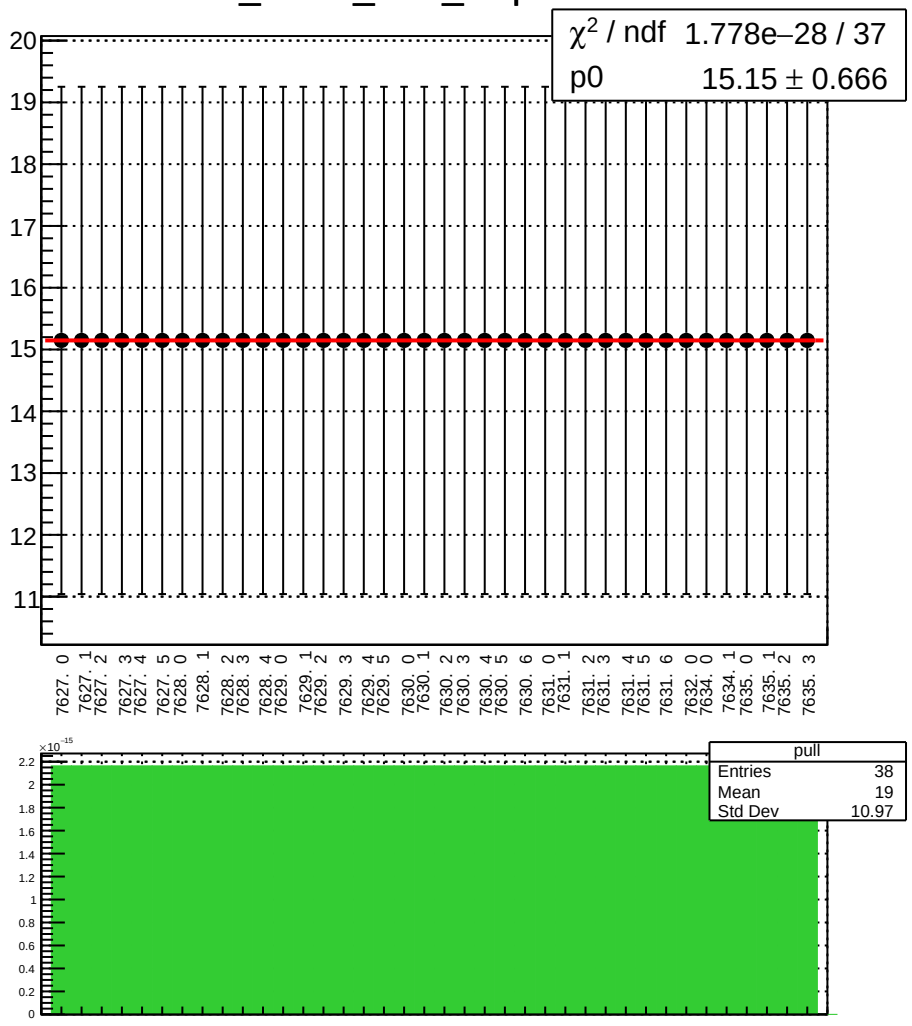

pull1D
Entries 38
Mean −2.624e−15
Std Dev1.123e−22
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

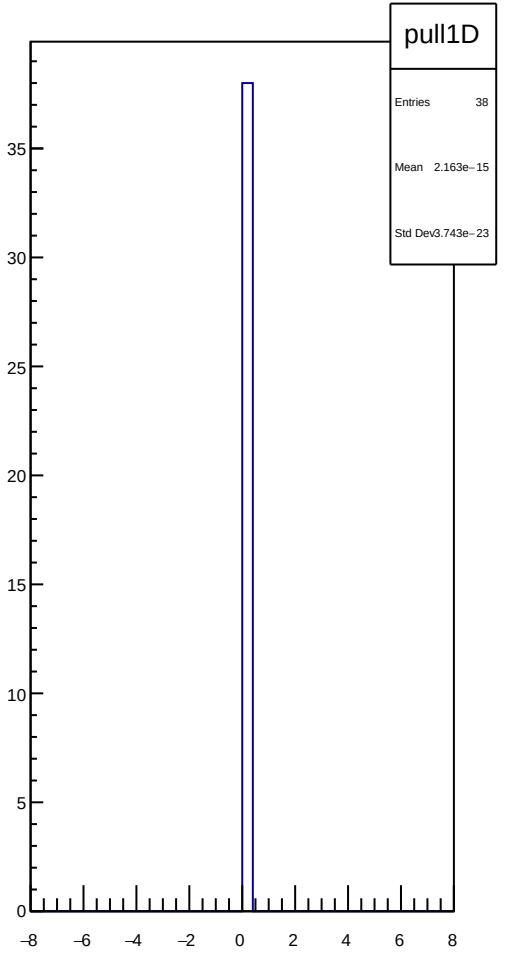

dit_sam6_4aX_slope vs run
χ² / ndf 1.635e−27 / 37
p0 19.2 ± 0.3515
21
20
19
18
17
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
×10⁻¹⁵
0
−1
−2
−3
−4
−5
−6
pull
Entries 38
Mean 19
Std Dev 10.97
pull1D
Entries 38
Mean −6.559e−15
Std Dev1.059e−22
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

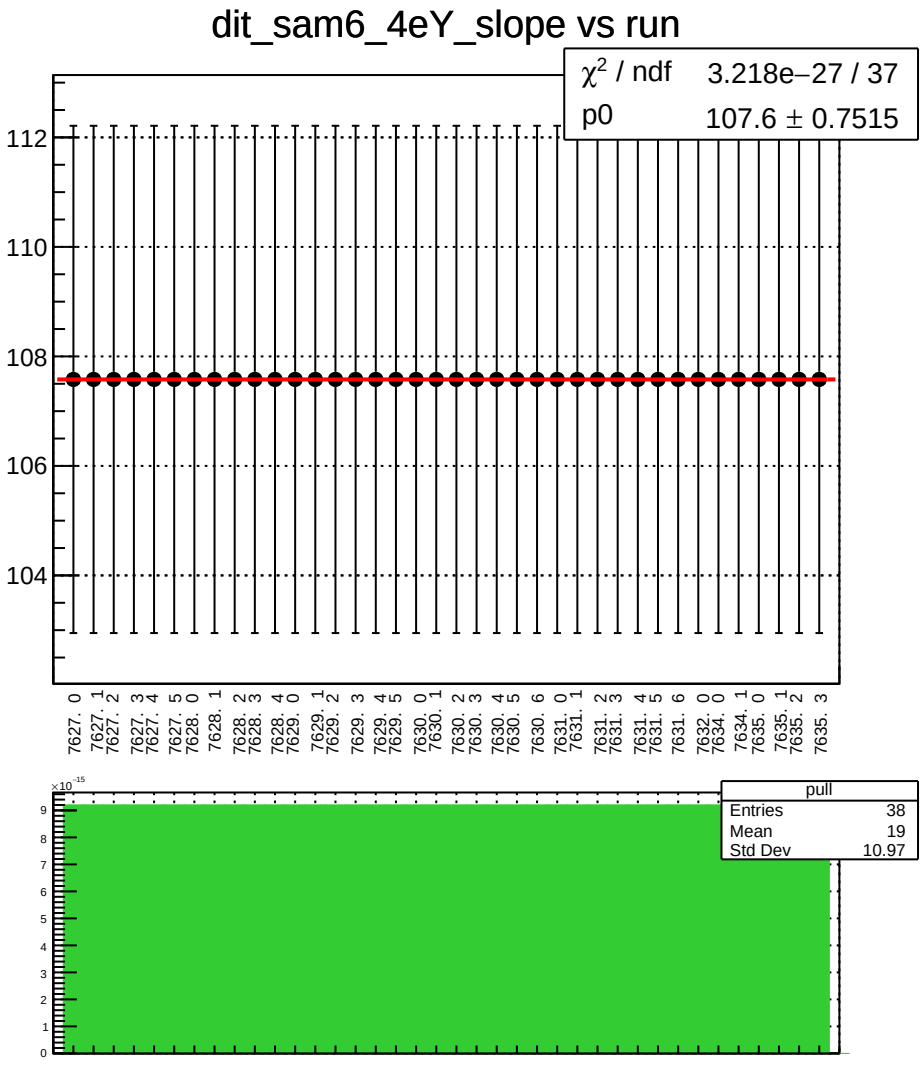

dit_sam6_4eX_slope vs run
χ² / ndf 6.192e−26 / 37
p0 55.17 ± 0.257
57
56.5
56
55.5
55
54.5
54
53.5
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
×10⁻¹⁵
0
−5
−10
−15
−20
−25
−30
−35
−40
pull
Entries 38
Mean 19
Std Dev 10.97
pull1D
Entries 38
Mean −4.037e−14
Std Dev1.339e−21
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

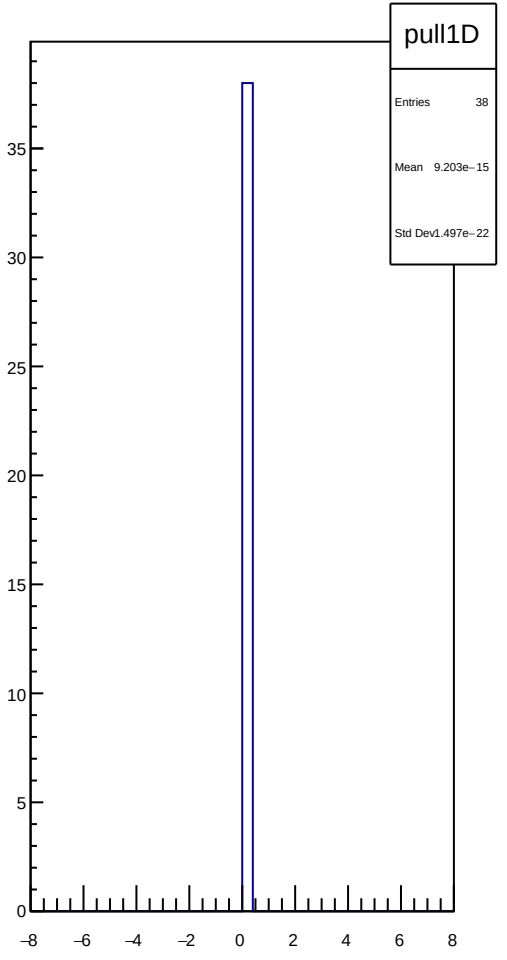

dit_sam6_11X12X_slope vs run
χ² / ndf 5.875e−30 / 37
p0 1.872 ± 0.09161
pull
Entries 38
Mean 19
Std Dev 10.97

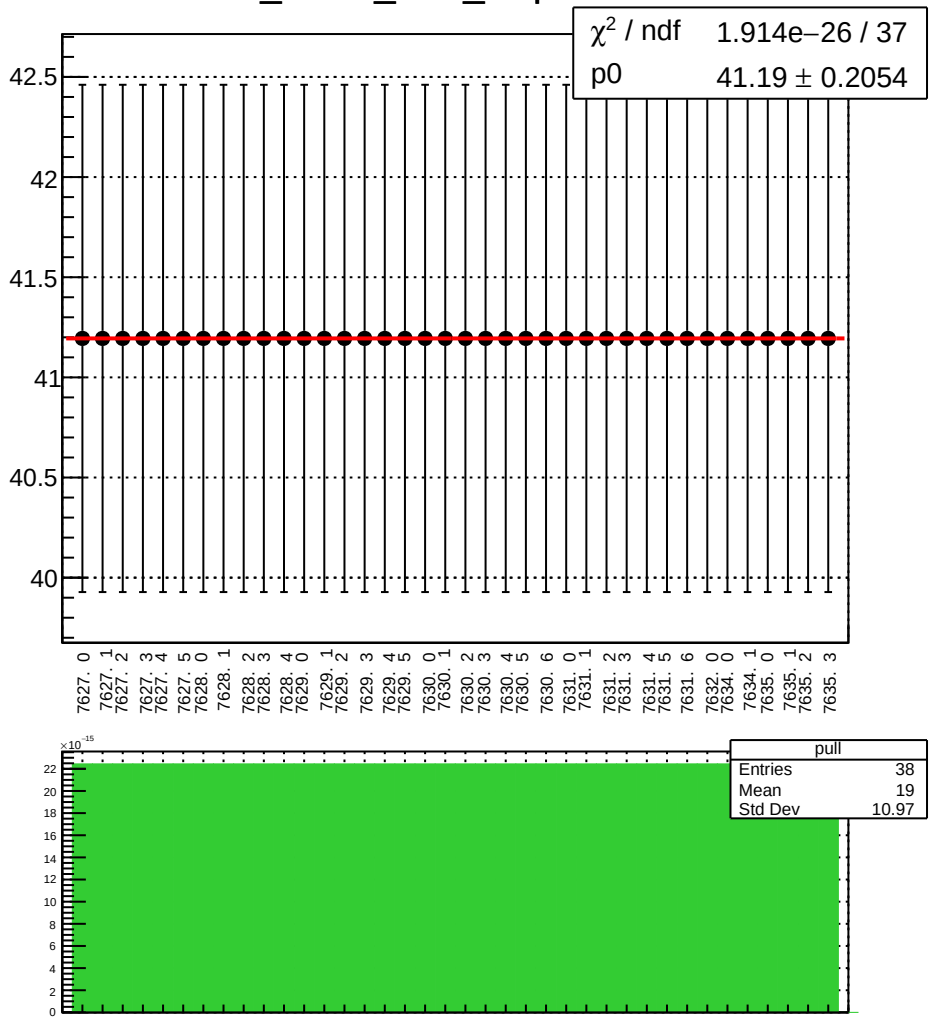

pull1D
Entries 38
Mean 3.932e−16
Std Dev1.323e−23

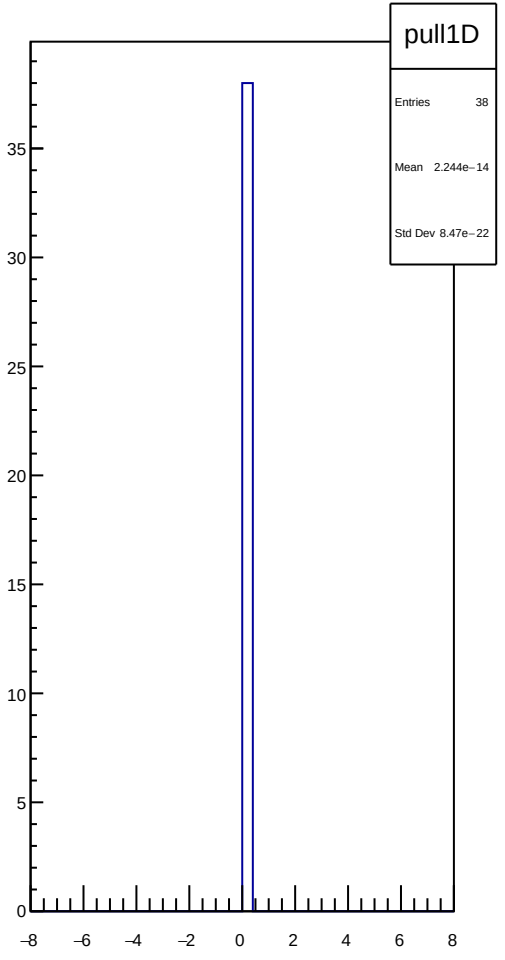

dit_sam6_4aY_slope vs run
χ² / ndf 1.778e−28 / 37
p0 15.15 ± 0.666
pull
Entries 38
Mean 19
Std Dev 10.97

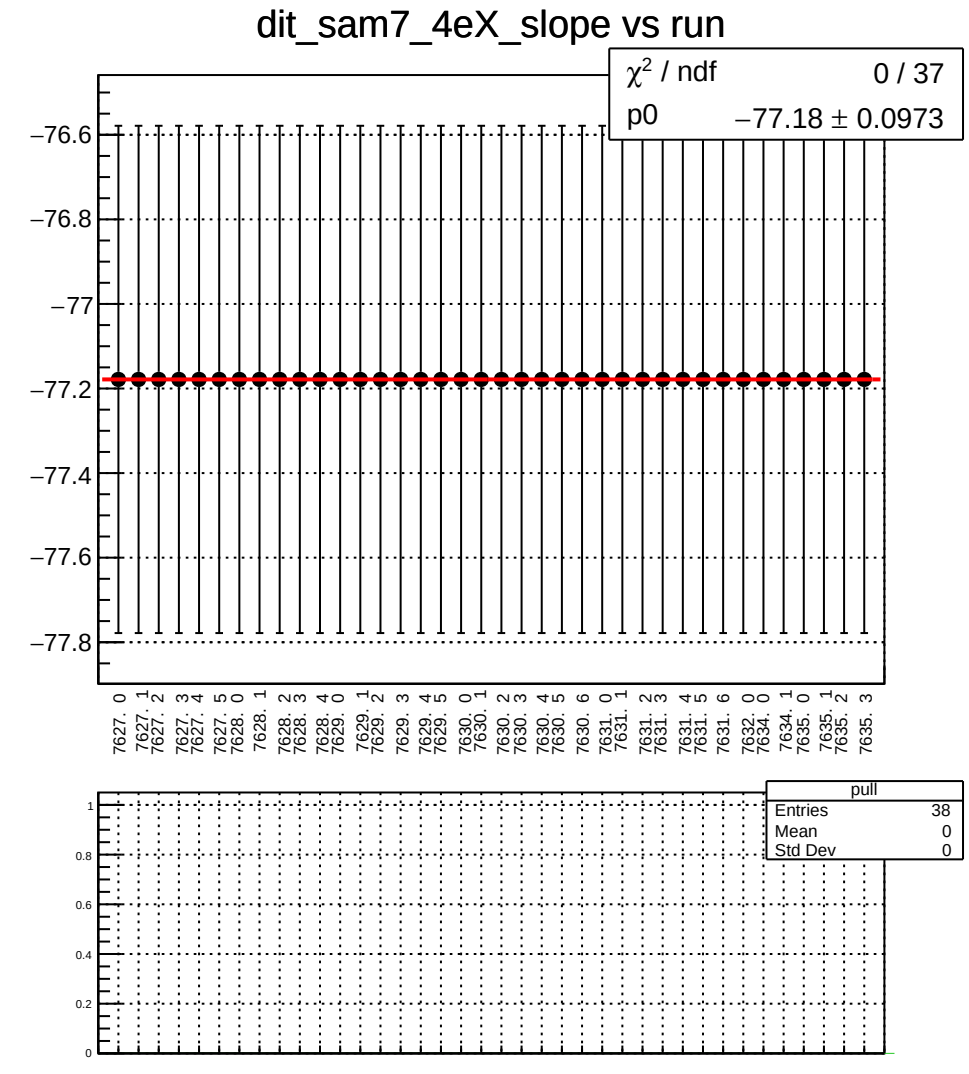

pull1D
Entries 38
Mean 2.163e−15
Std Dev3.743e−23

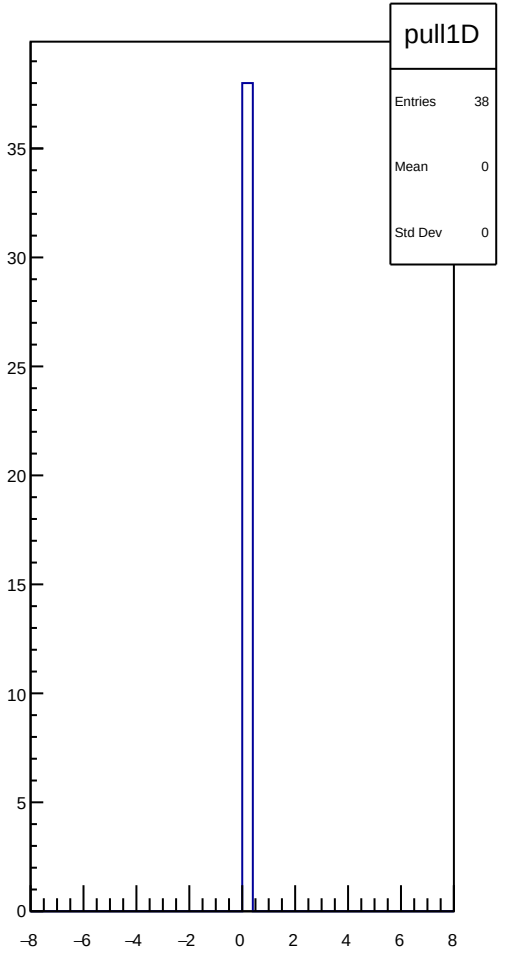

dit_sam6_4eY_slope vs run
χ² / ndf 3.218e−27 / 37
p0 107.6 ± 0.7515
112
110
108
106
104
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
×10⁻�15
pull
Entries 38
Mean 19
Std Dev 10.97

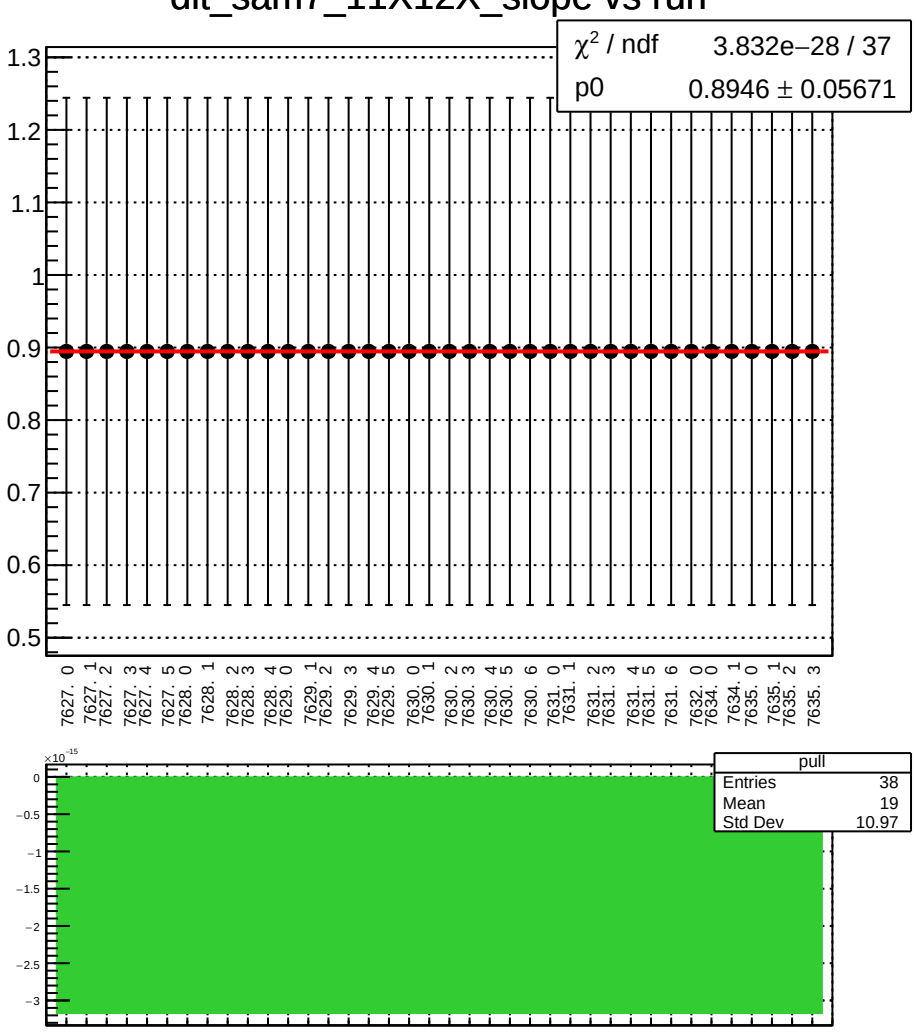

pull1D
Entries 38
Mean 9.203e−15
Std Dev1.497e−22
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

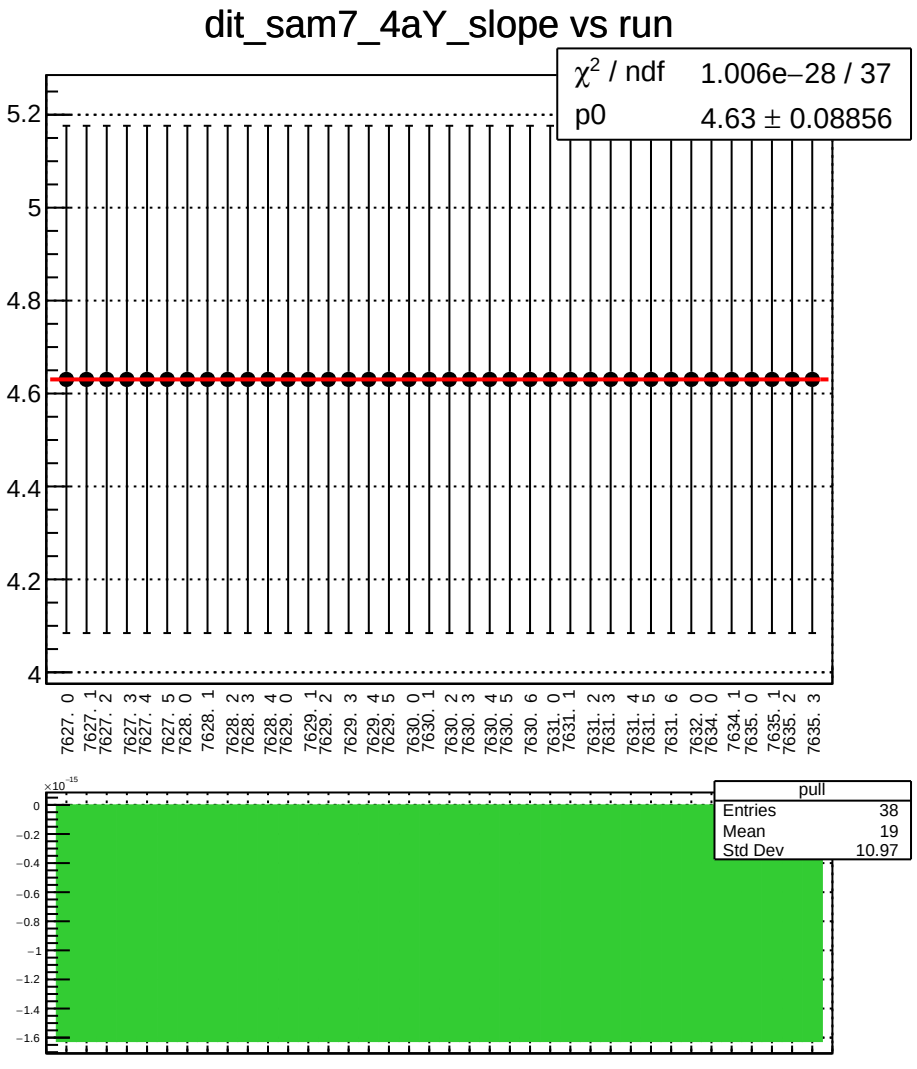

dit_sam7_4aX_slope vs run
χ² / ndf 1.914e−26 / 37
p0 41.19 ± 0.2054
42.5
42
41.5
41
40.5
40
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
×10⁻¹⁵
22
20
18
16
14
12
10
8
6
4
2
0
pull
Entries 38
Mean 19
Std Dev 10.97

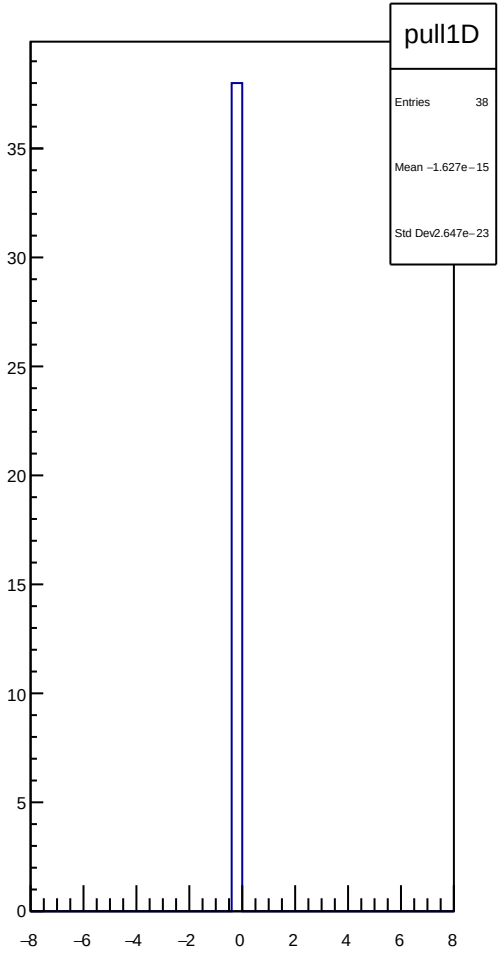

pull1D
Entries 38
Mean 2.244e−14
Std Dev 8.47e−22
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

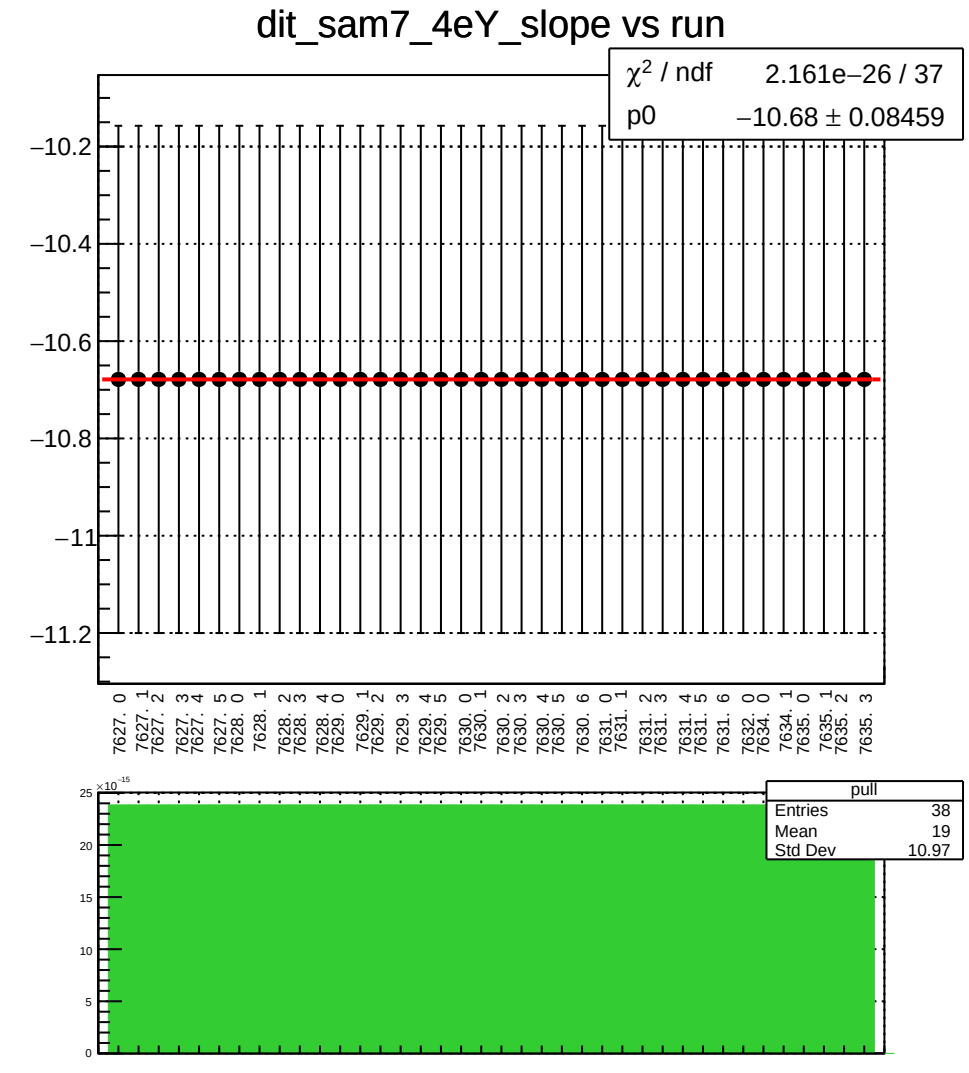

dit_sam7_4eX_slope vs run
χ^2 / ndf 0 / 37
p0 −77.18 ± 0.0973
−76.6
−76.8
−77
−77.2
−77.4
−77.6
−77.8
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

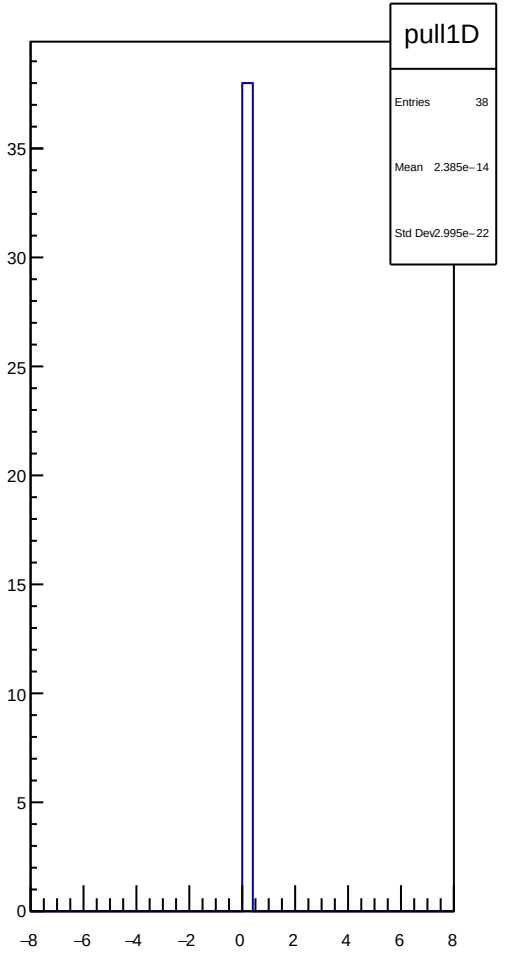

pull1D
Entries 38
Mean 0
Std Dev 0
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

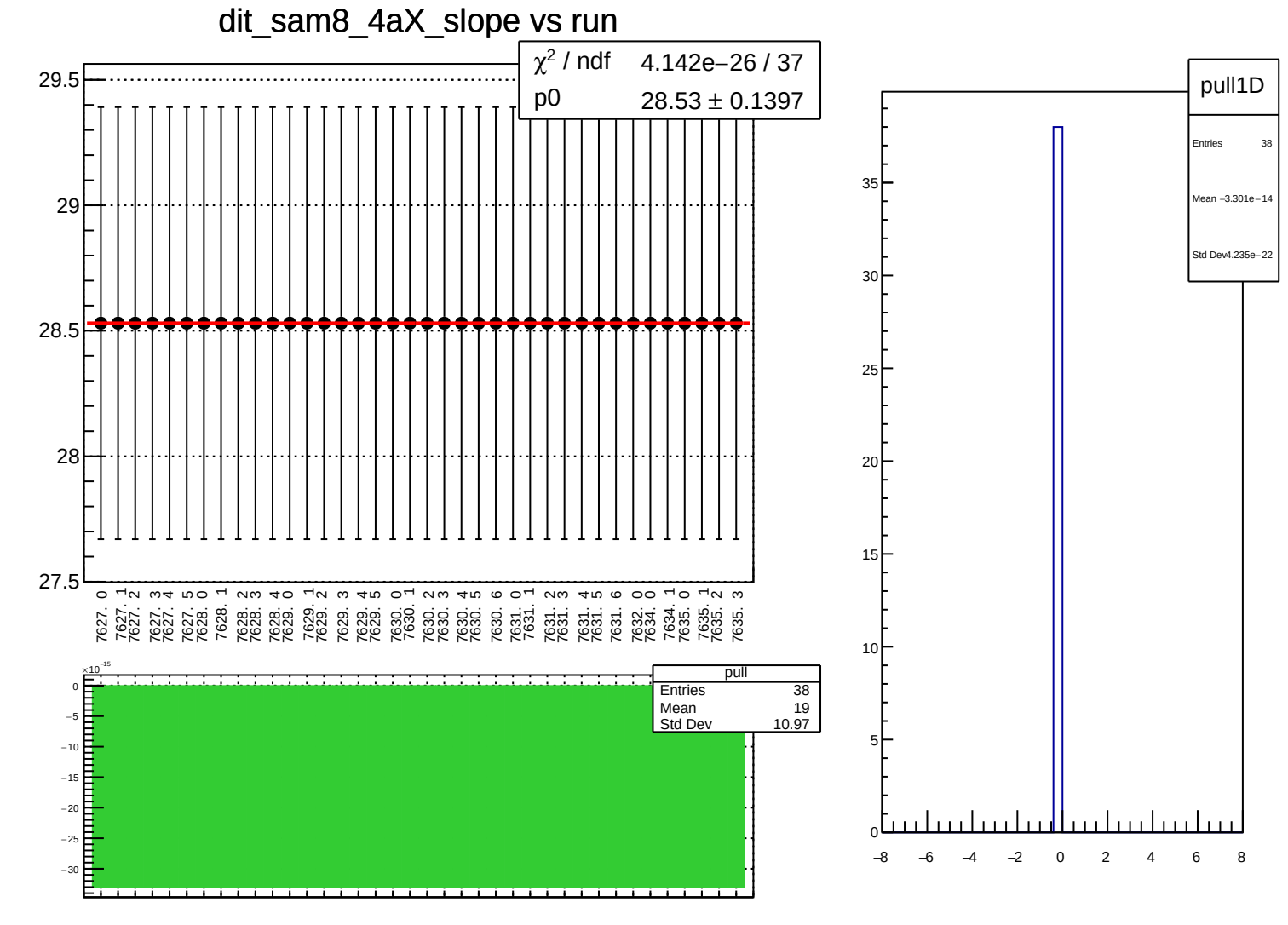

dit_sam7_11X12X_slope vs run
χ² / ndf 3.832e−28 / 37
p0 0.8946 ± 0.05671
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
×10⁻¹⁵
0
−0.5
−1
−1.5
−2
−2.5
−3
pull
Entries 38
Mean 19
Std Dev 10.97
pull1D
Entries 38
Mean −3.176e−15
Std Dev3.743e−23
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

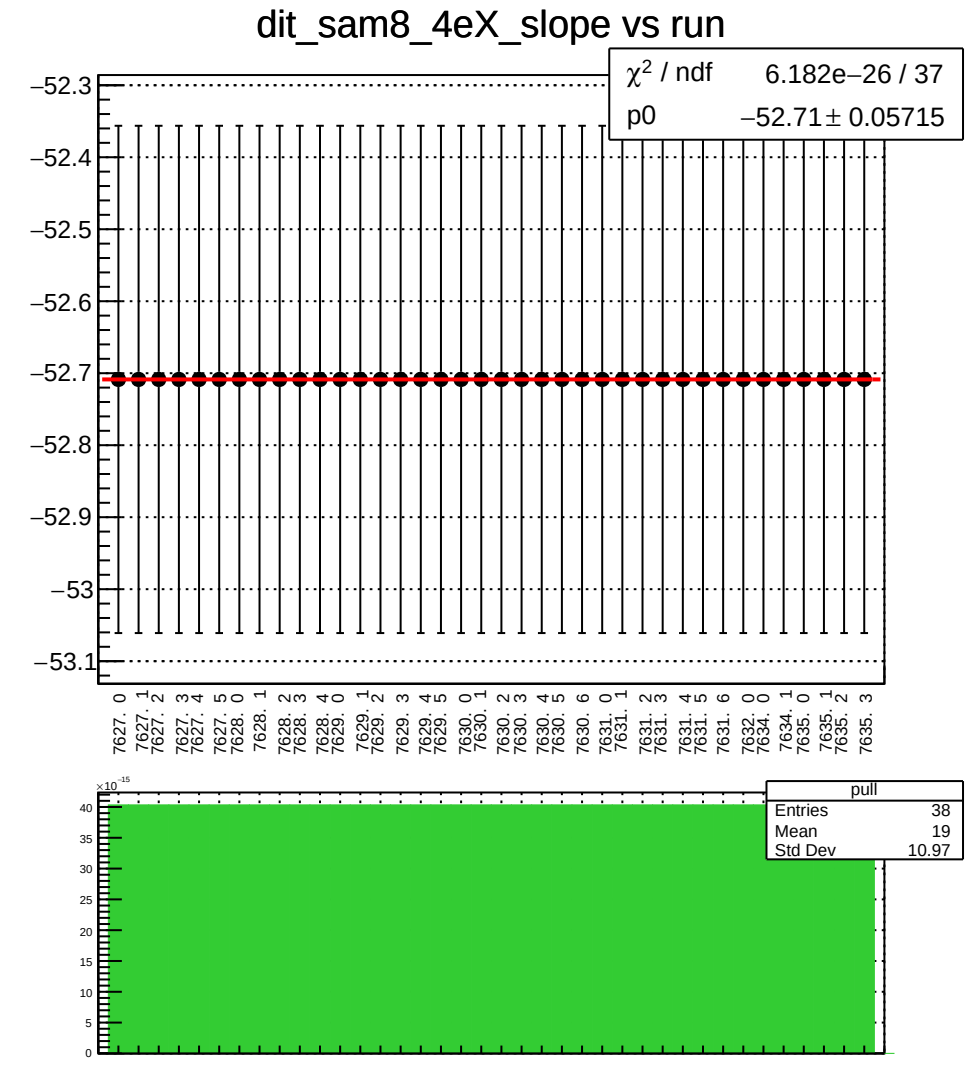

dit_sam7_4aY_slope vs run
χ^2 / ndf 1.006e−28 / 37
p0 4.63 ± 0.08856
5.2
5
4.8
4.6
4.4
4.2
4
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
×10⁻�15
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4
−1.6
pull
Entries 38
Mean 19
Std Dev 10.97

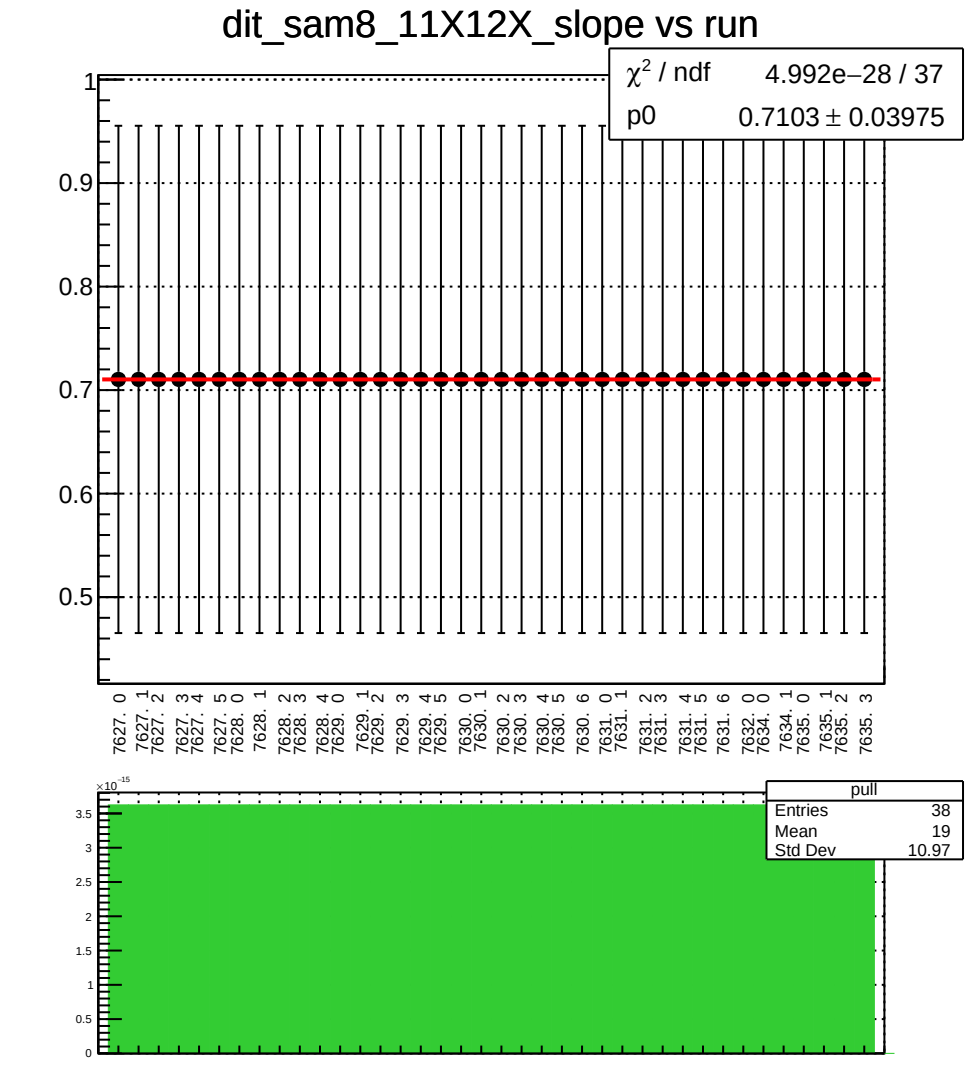

pull1D
Entries 38
Mean −1.627e−15
Std Dev2.647e−23
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

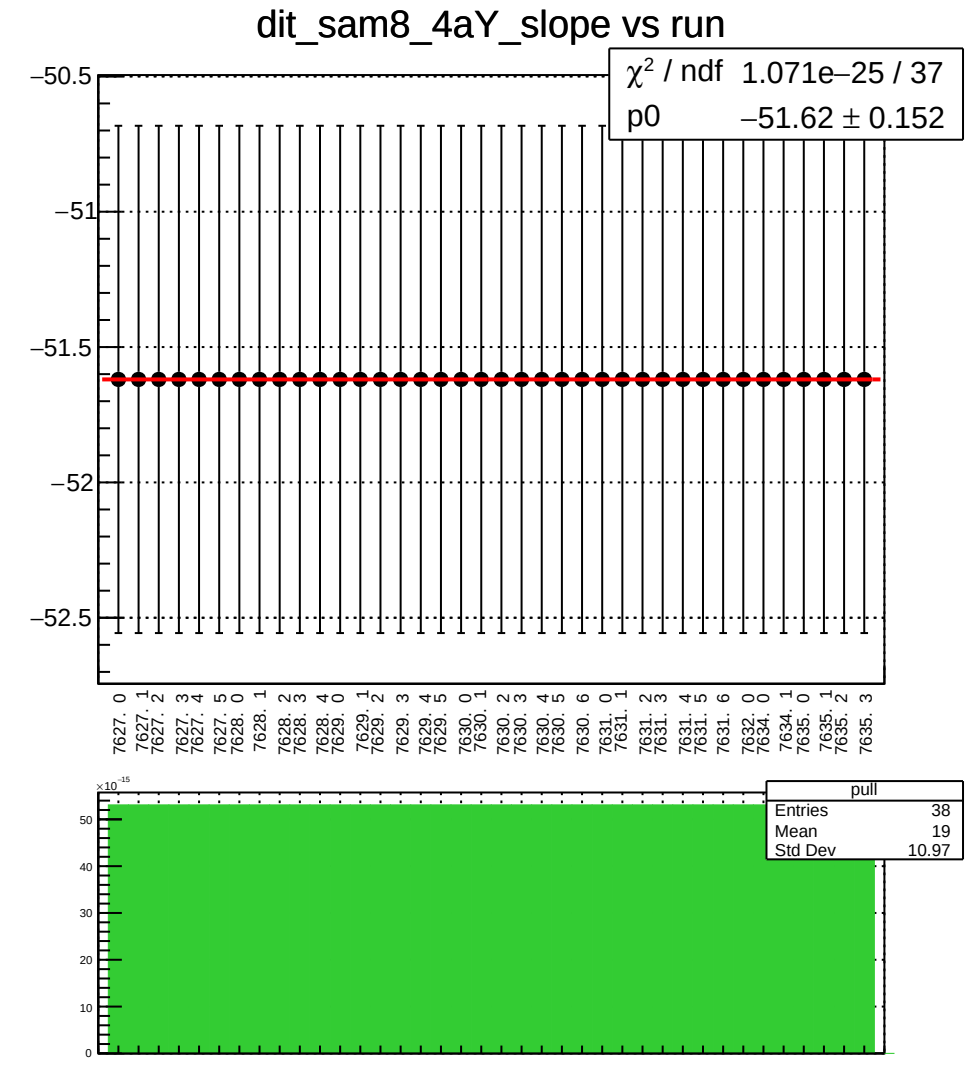

dit_sam7_4eY_slope vs run
χ² / ndf 2.161e−26 / 37
p0 −10.68 ± 0.08459
−10.2
−10.4
−10.6
−10.8
−11
−11.2
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
×10⁻¹⁵
25
20
15
10
5
0
pull
Entries 38
Mean 19
Std Dev 10.97

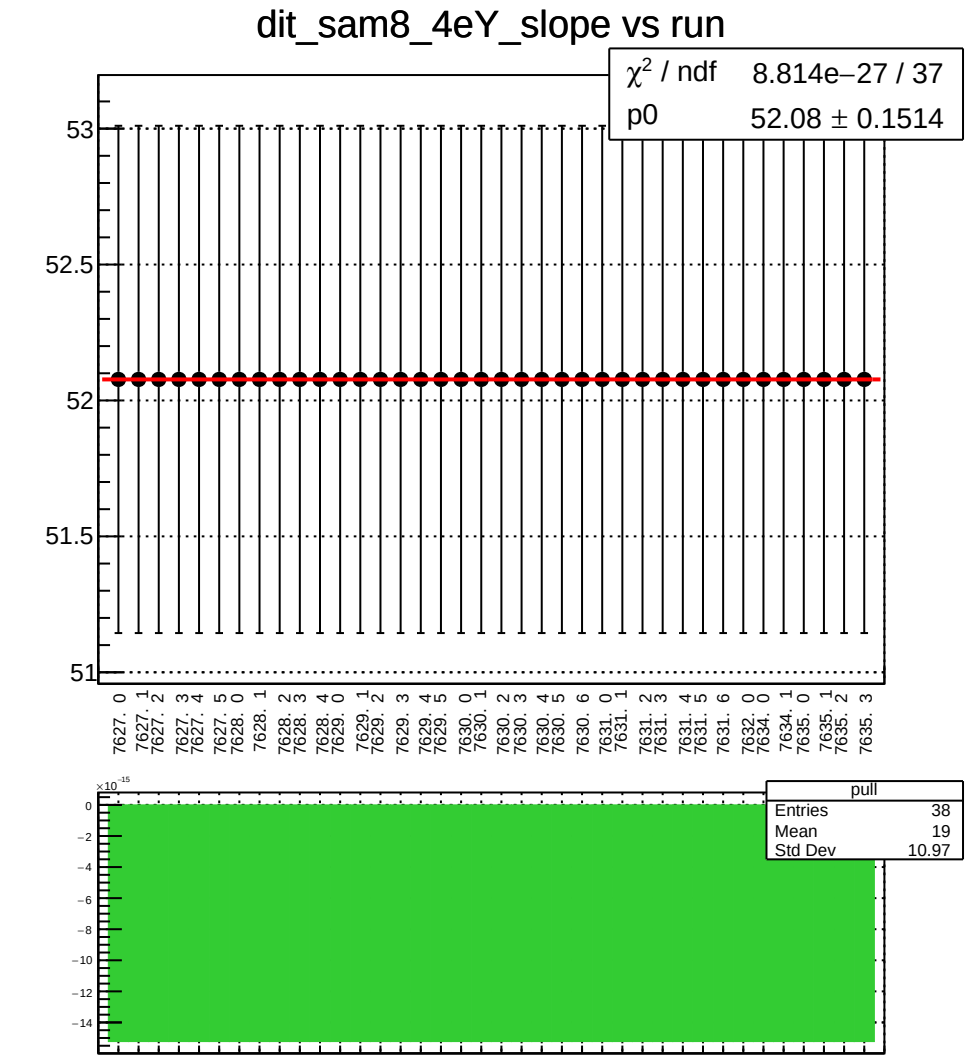

pull1D
Entries 38
Mean 2.385e−14
Std Dev 2.995e−22
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

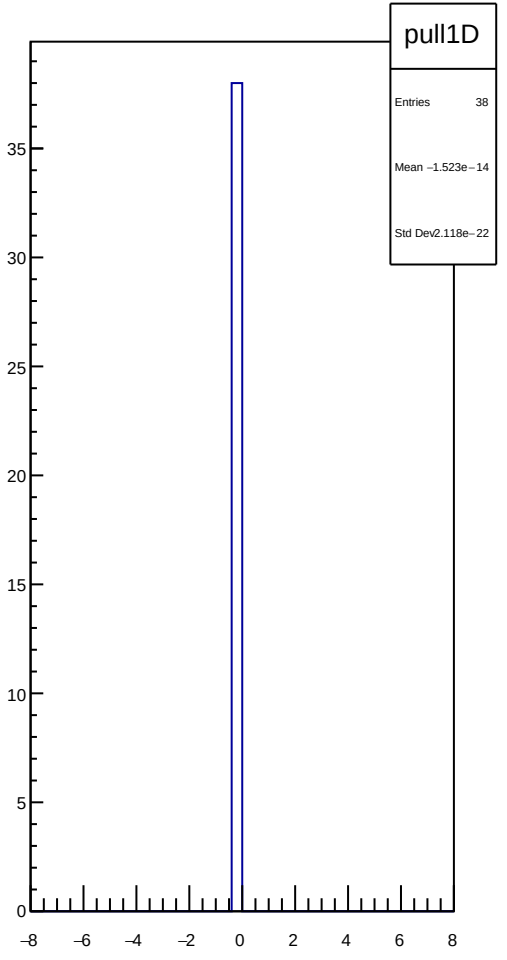

dit_sam8_4aX_slope vs run
χ² / ndf 4.142e−26 / 37
p0 28.53 ± 0.1397
29.5
29
28.5
28
27.5
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
×10⁻¹⁵
0
−5
−10
−15
−20
−25
−30
pull
Entries 38
Mean 19
Std Dev 10.97
pull1D
Entries 38
Mean −3.301e−14
Std Dev4.235e−22
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

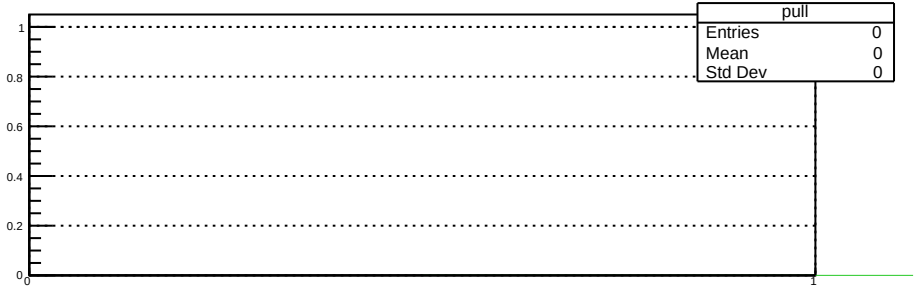

dit_sam8_4eX_slope vs run
χ² / ndf 6.182e−26 / 37
p0 −52.71 ± 0.05715
−52.3
−52.4
−52.5
−52.6
−52.7
−52.8
−52.9
−53
−53.1
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
×10⁻¹⁵
pull
Entries 38
Mean 19
Std Dev 10.97
pull1D
Entries 38
Mean 4.033e−14
Std Dev 0

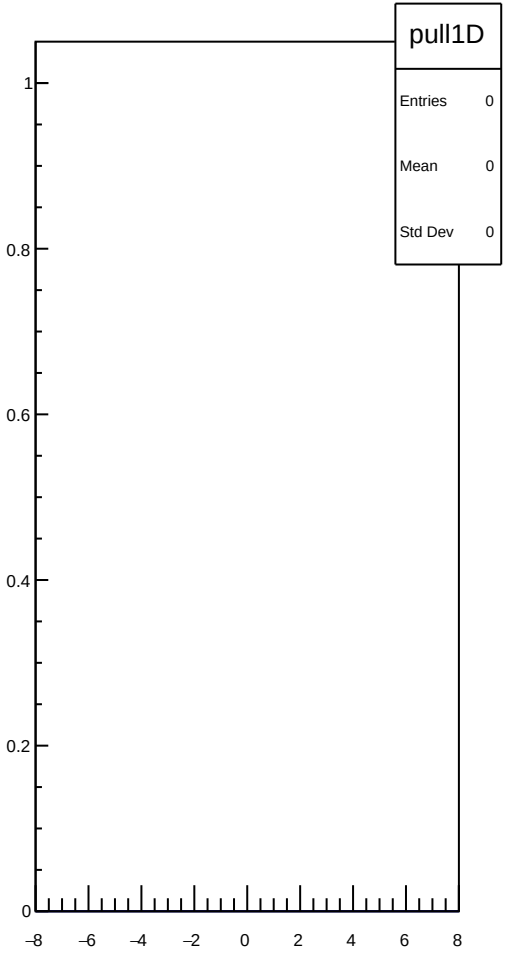

dit_sam8_11X12X_slope vs run
χ² / ndf 4.992e−28 / 37
p0 0.7103 ± 0.03975
1
0.9
0.8
0.7
0.6
0.5
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
×10⁻�15
3.5
3
2.5
2
1.5
1
0.5
0
pull
Entries 38
Mean 19
Std Dev 10.97
pull1D
Entries 38
Mean 3.624e−15
Std Dev9.169e−23
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

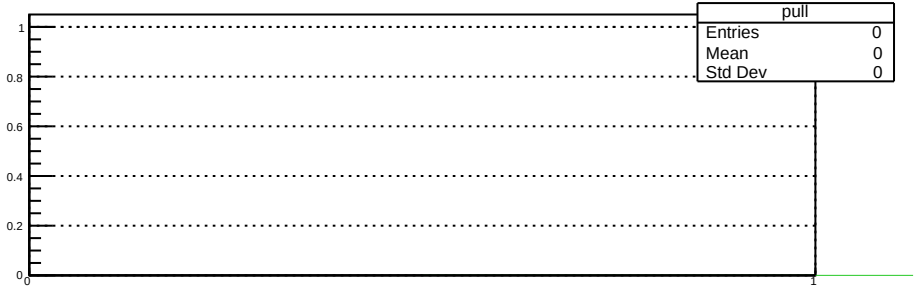

dit_sam8_4aY_slope vs run
χ² / ndf 1.071e−25 / 37
p0 −51.62 ± 0.152
−50.5
−51
−51.5
−52
−52.5
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
×10⁻¹⁵
50
40
30
20
10
0
pull
Entries 38
Mean 19
Std Dev 10.97
pull1D
Entries 38
Mean 5.308e−14
Std Dev1.467e−21
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

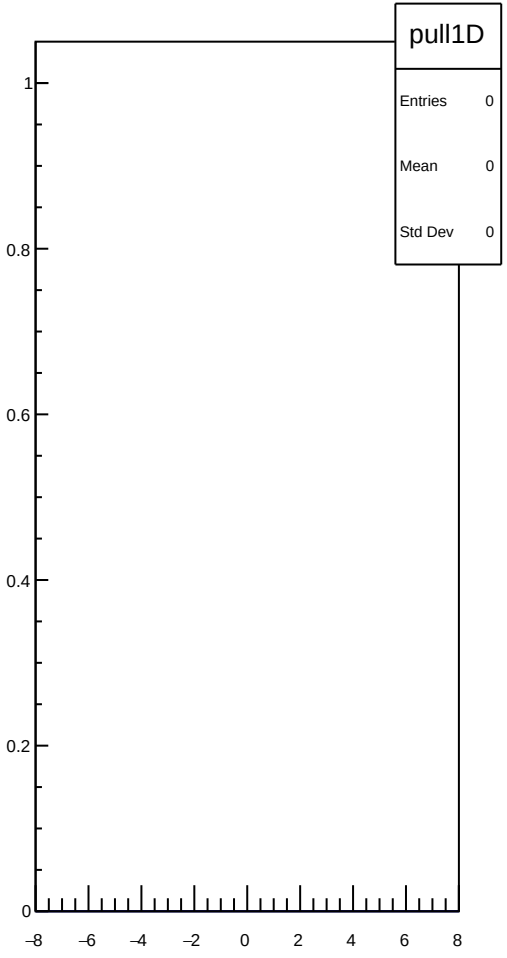

dit_sam8_4eY_slope vs run
χ² / ndf 8.814e−27 / 37
p0 52.08 ± 0.1514
53
52.5
52
51.5
51
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
×10⁻¹⁵
0
−2
−4
−6
−8
−10
−12
−14
pull
Entries 38
Mean 19
Std Dev 10.97


pull1D
Entries 38
Mean −1.523e−14
Std Dev2.118e−22
35
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
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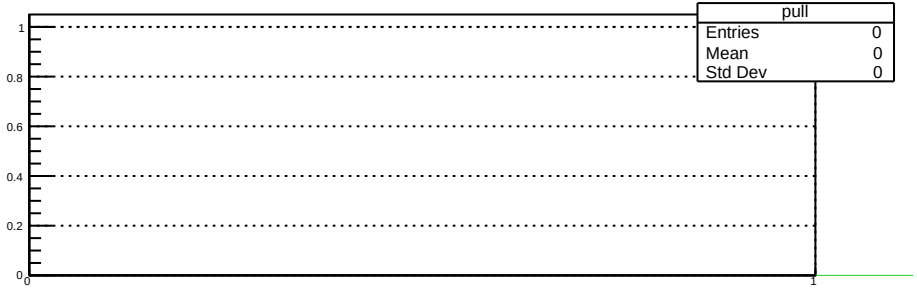
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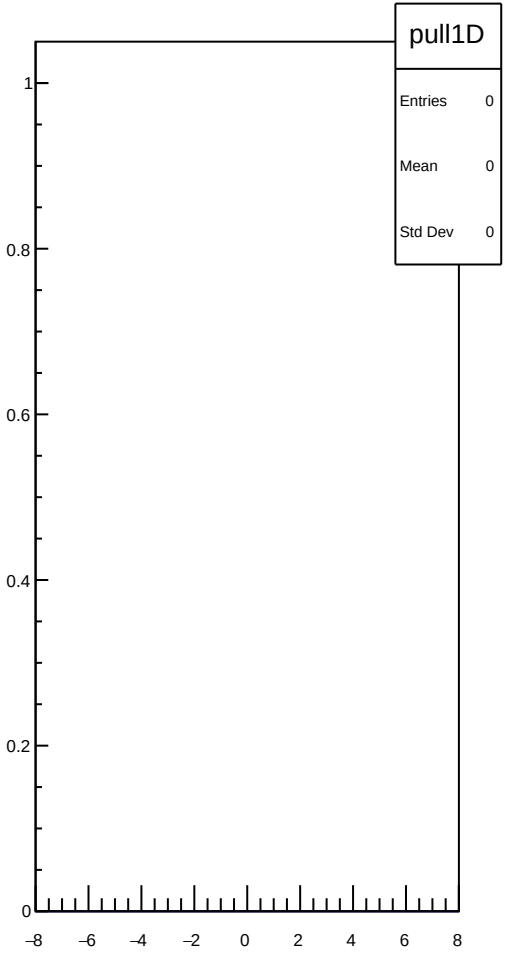
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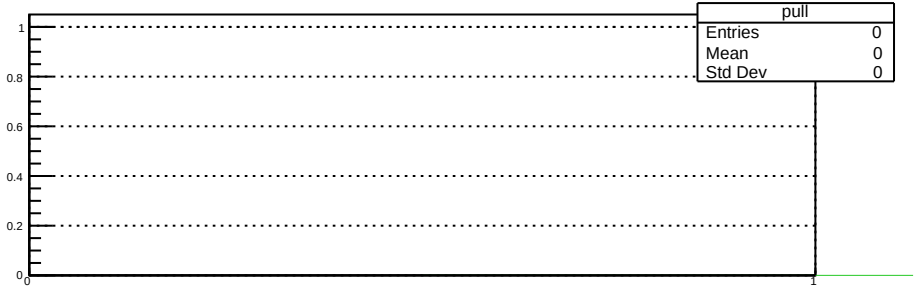
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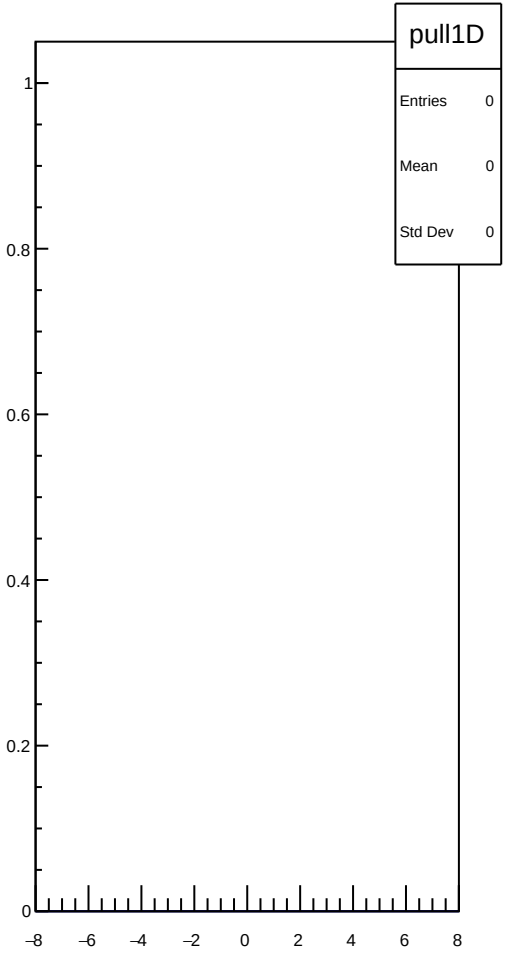
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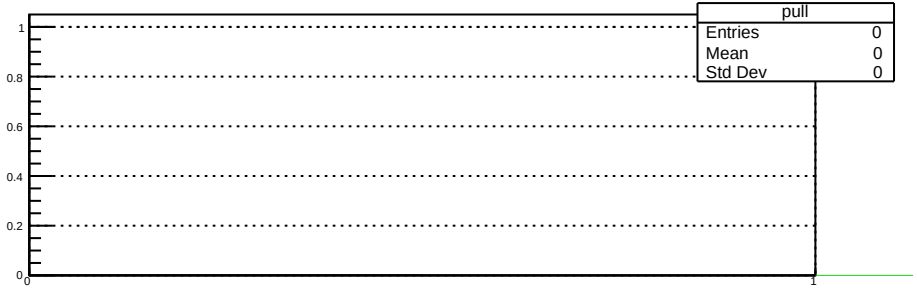
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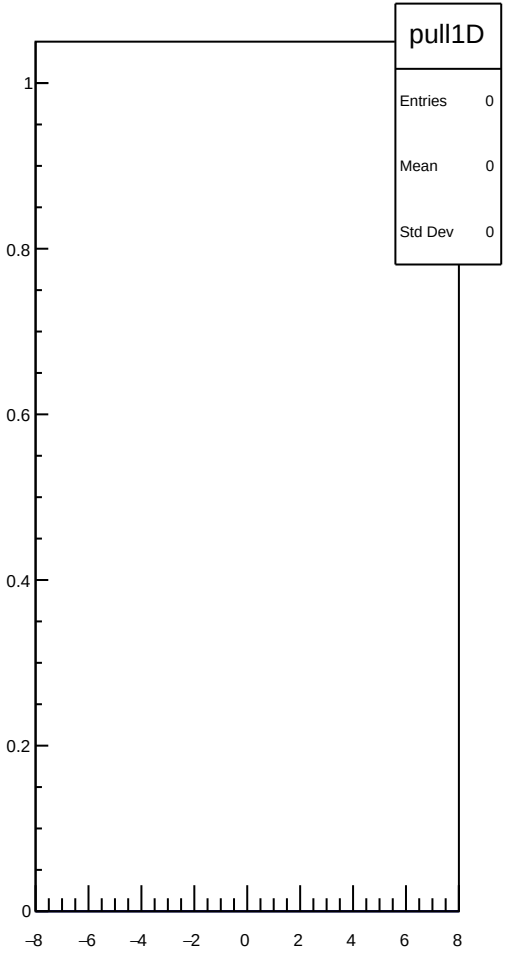
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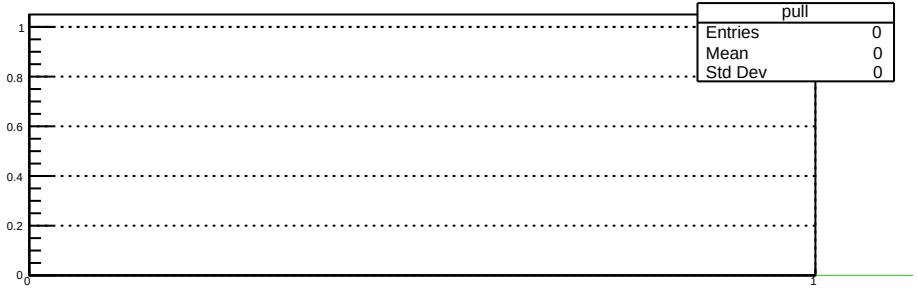
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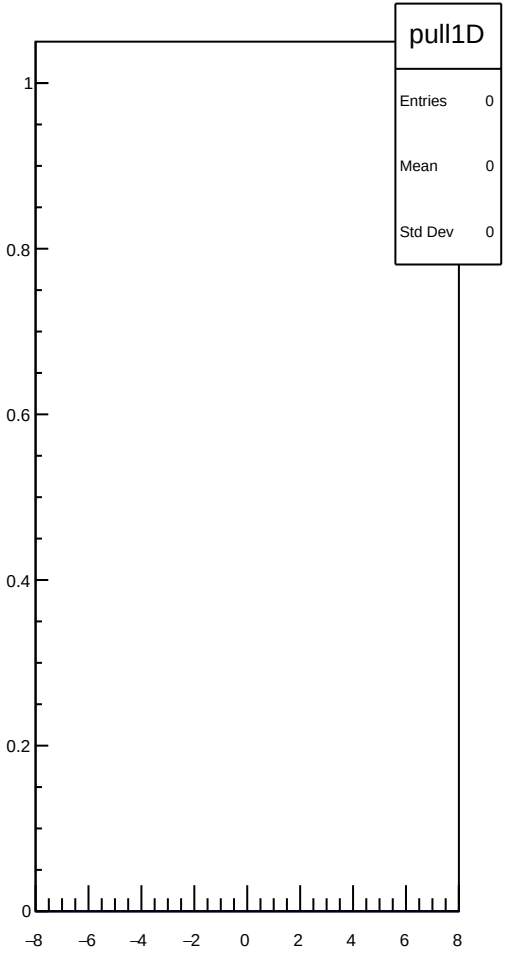
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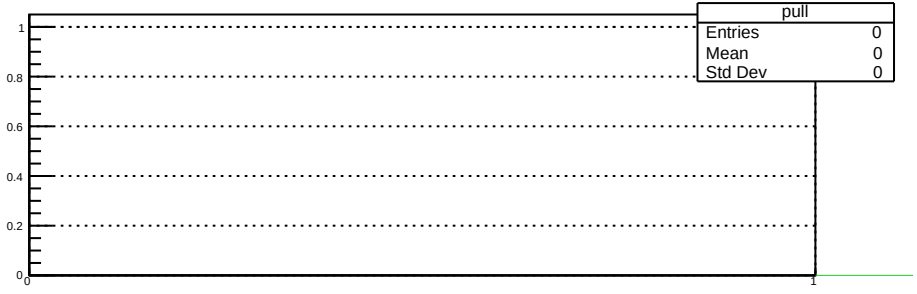
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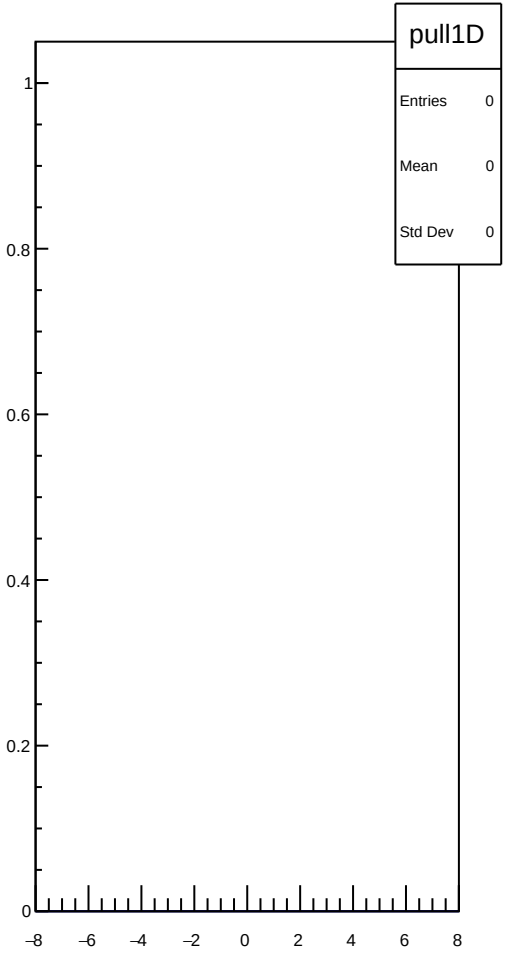
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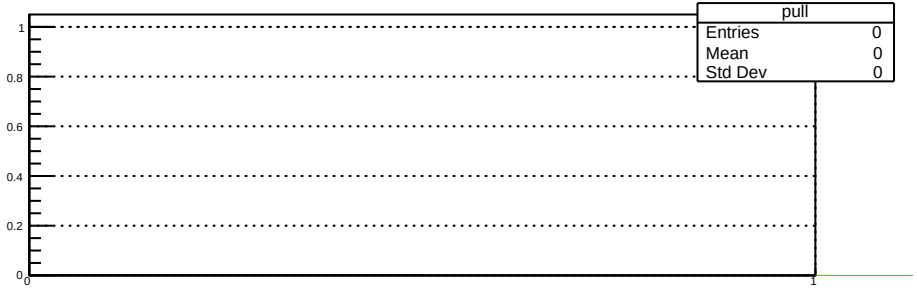
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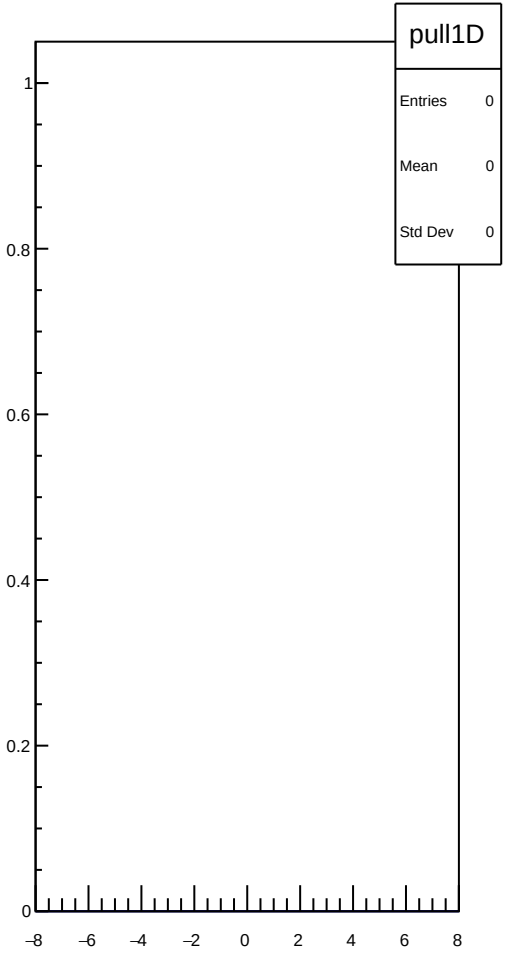
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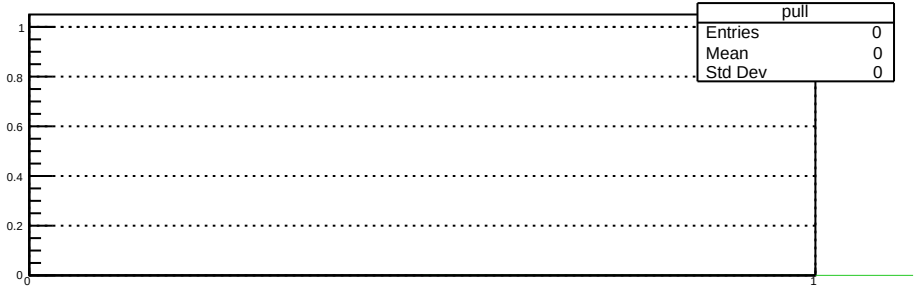
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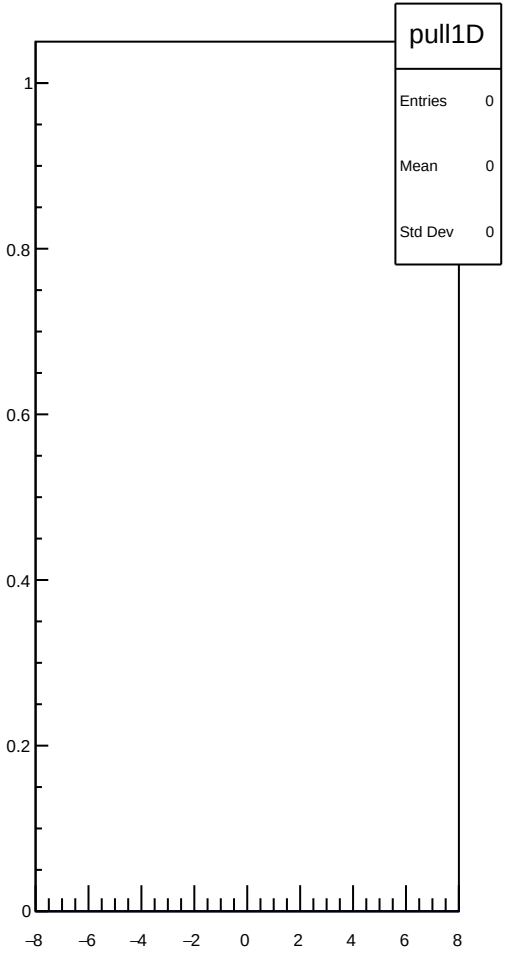
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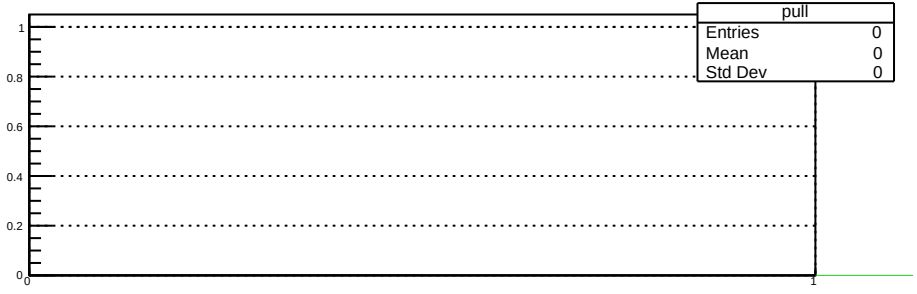
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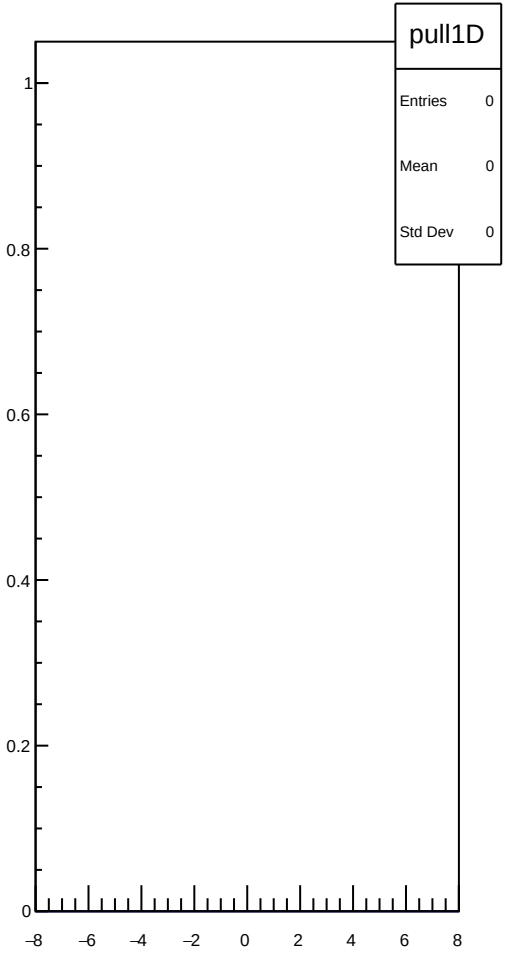
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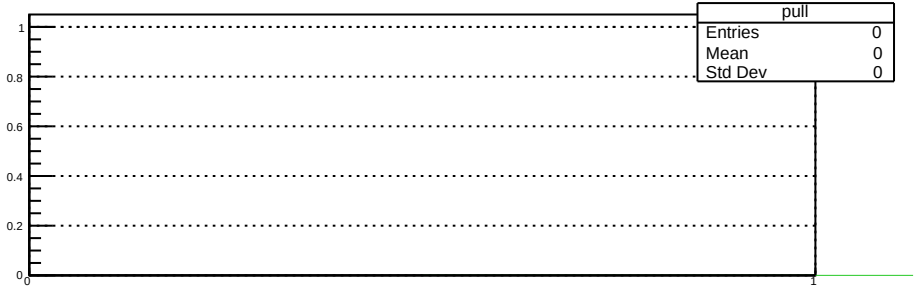
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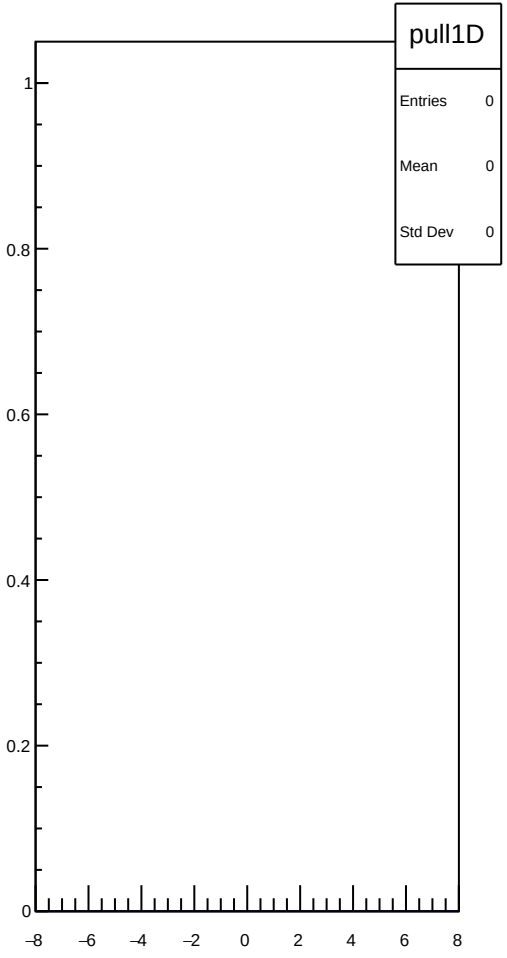
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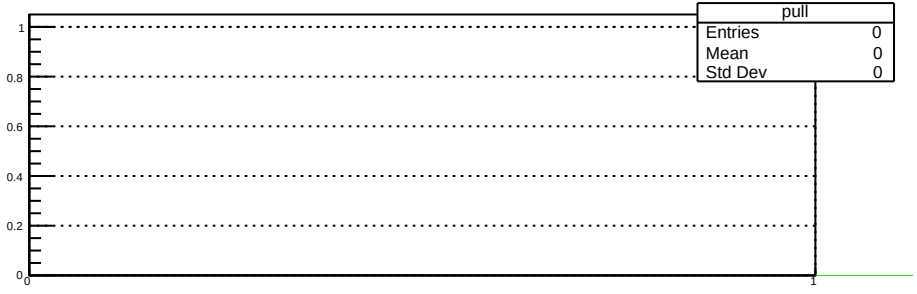
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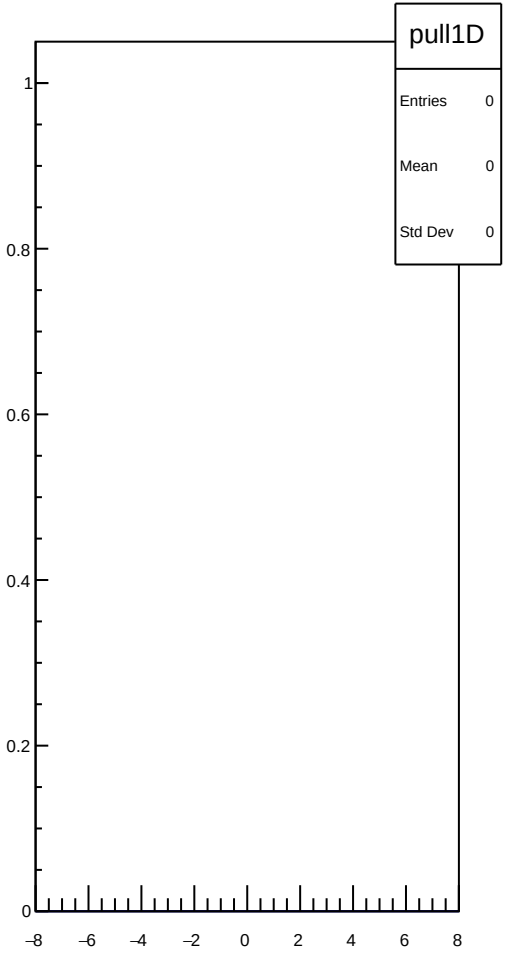
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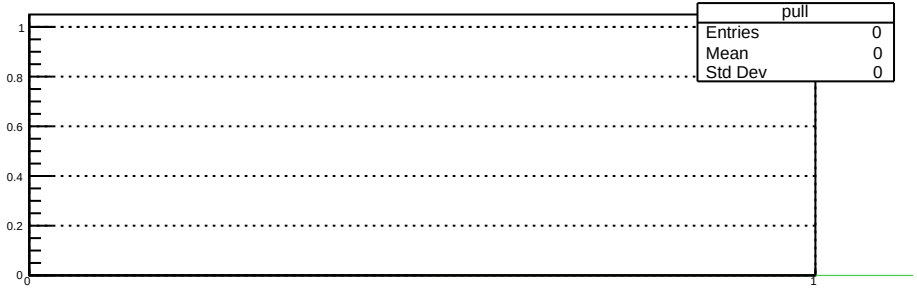
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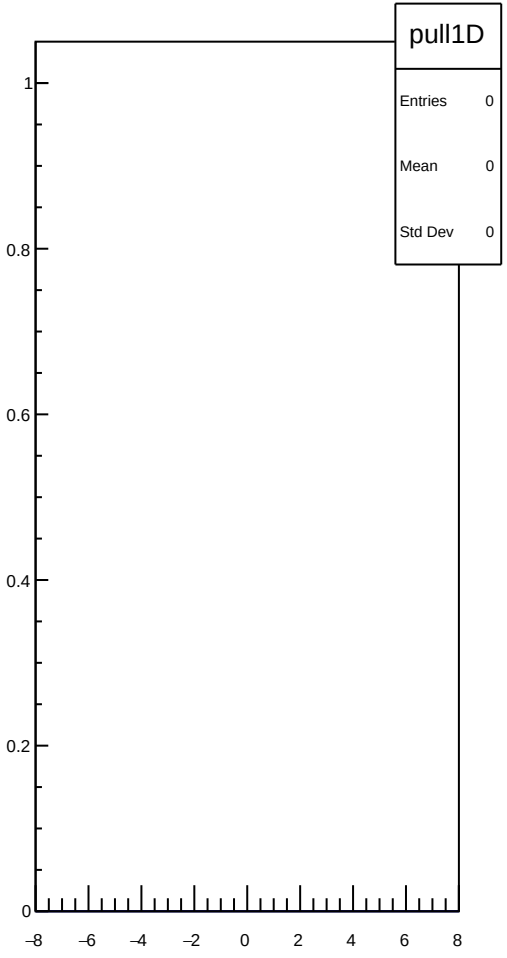
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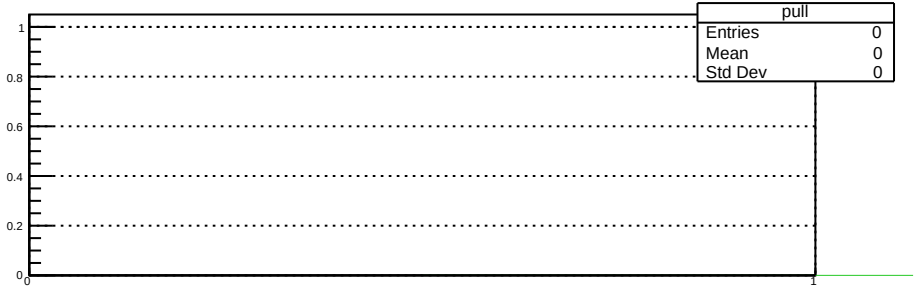
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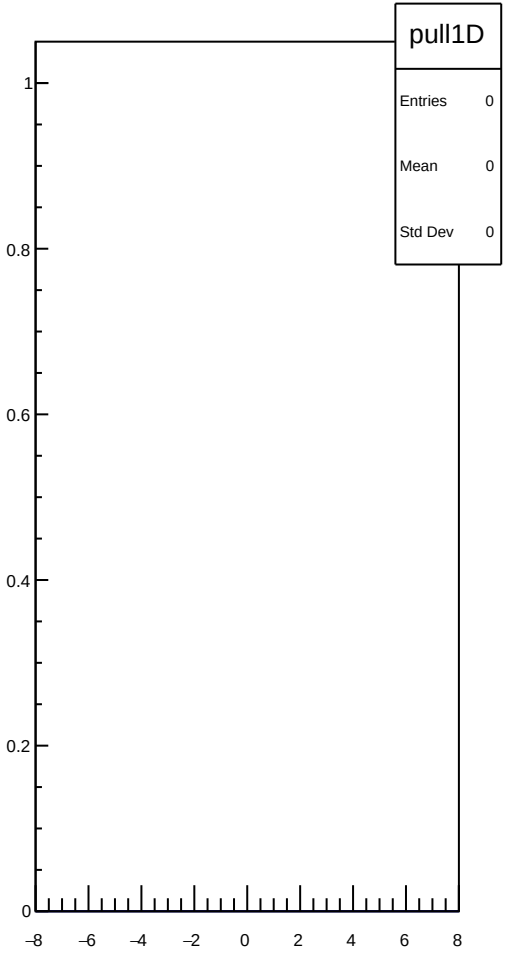
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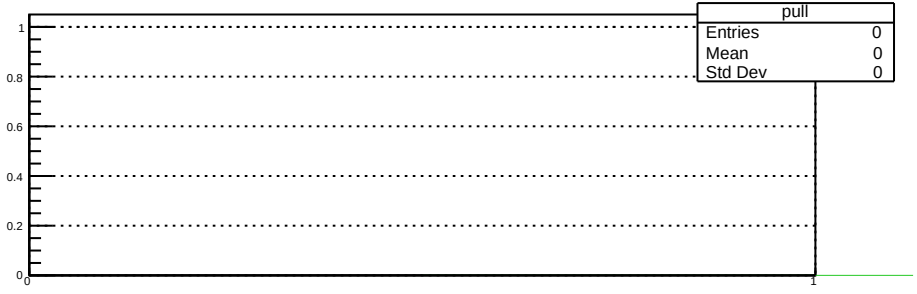
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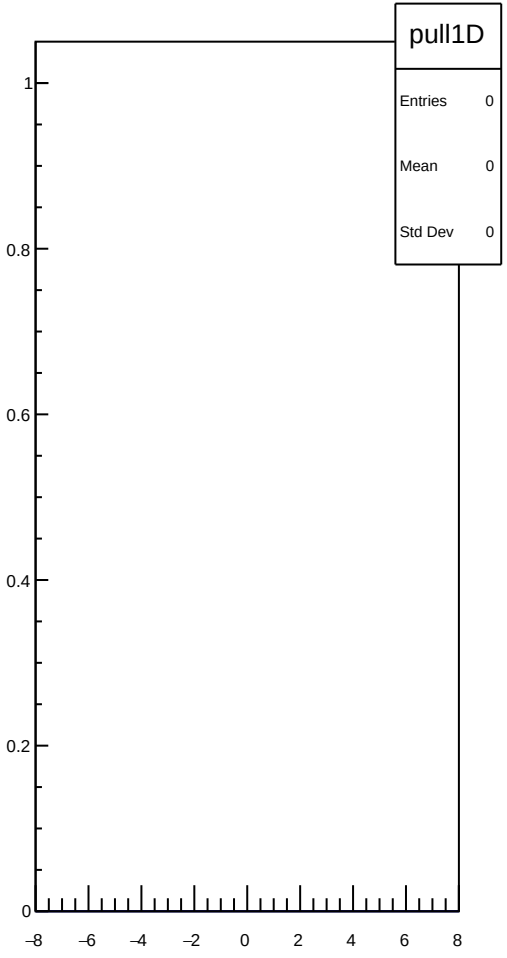
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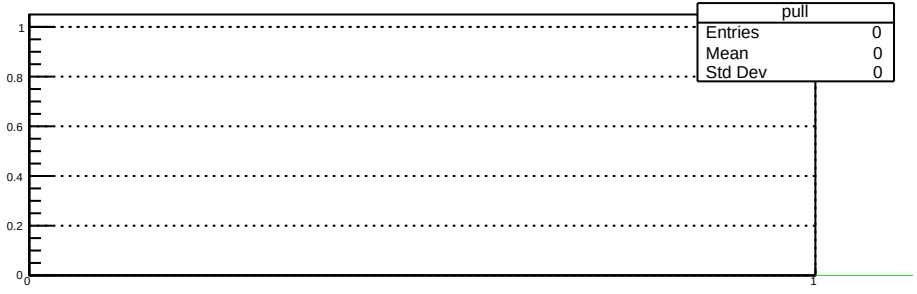
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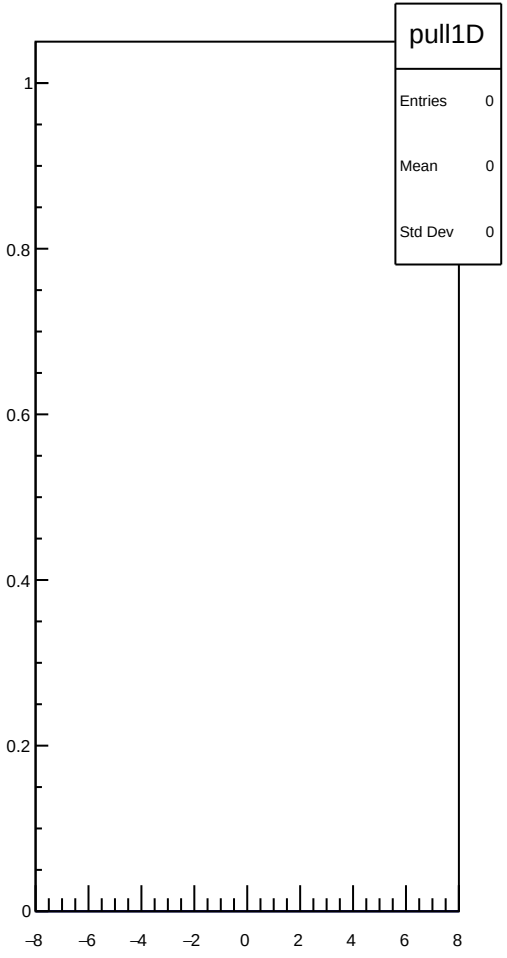
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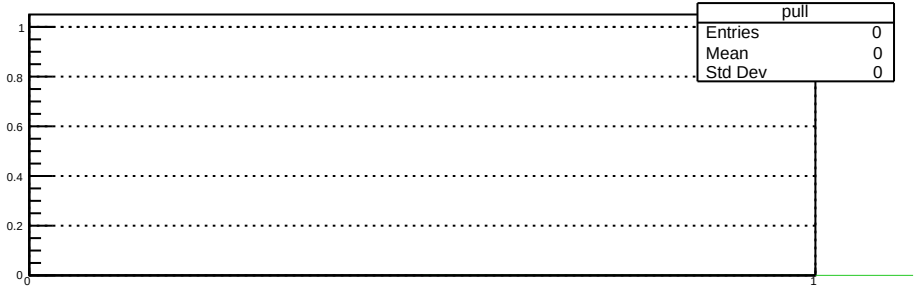
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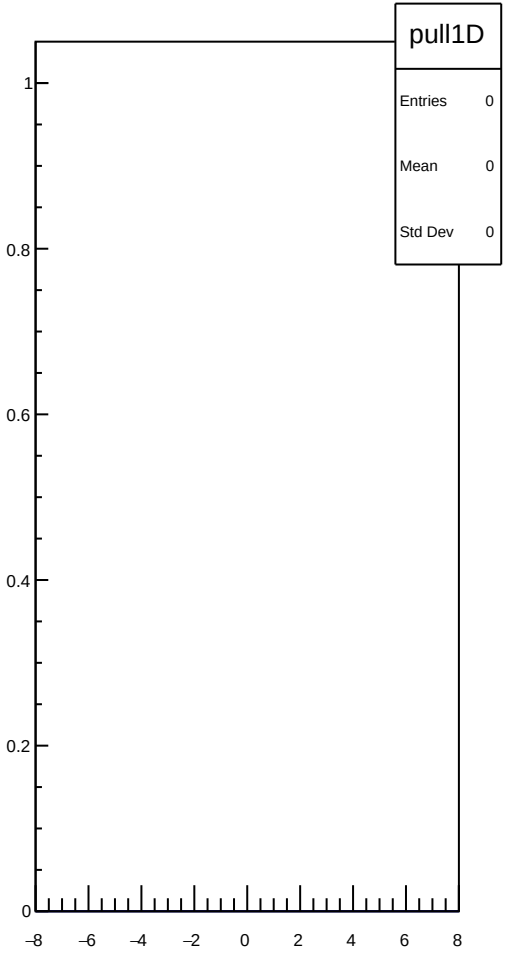
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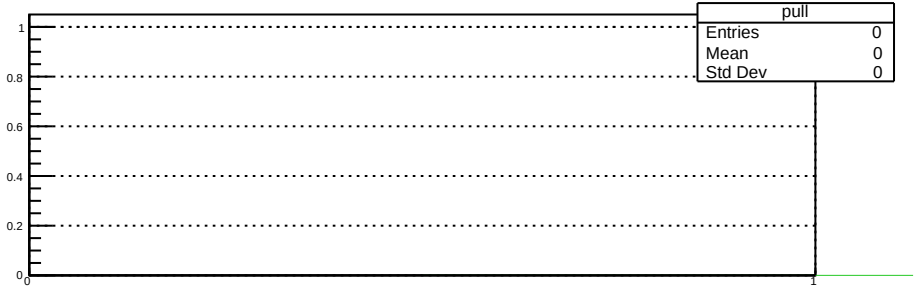
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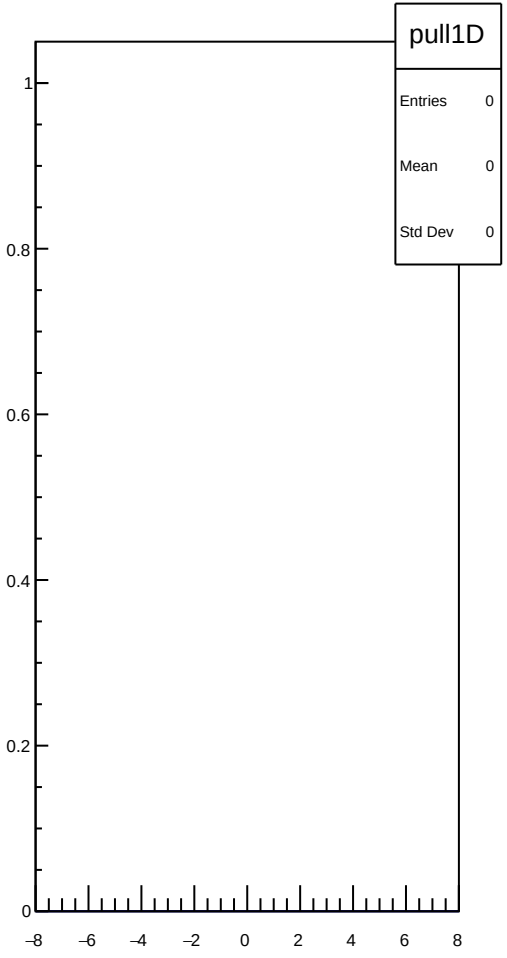
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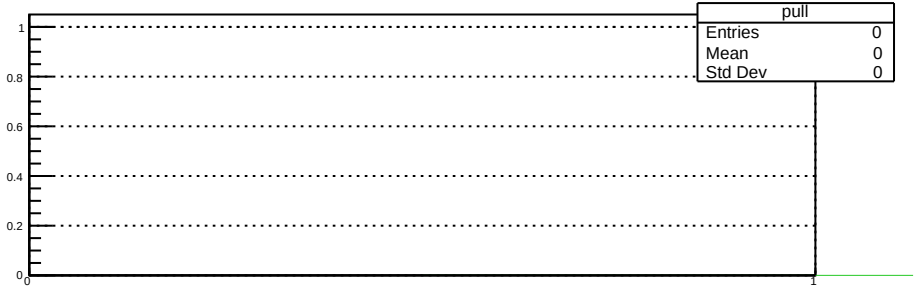
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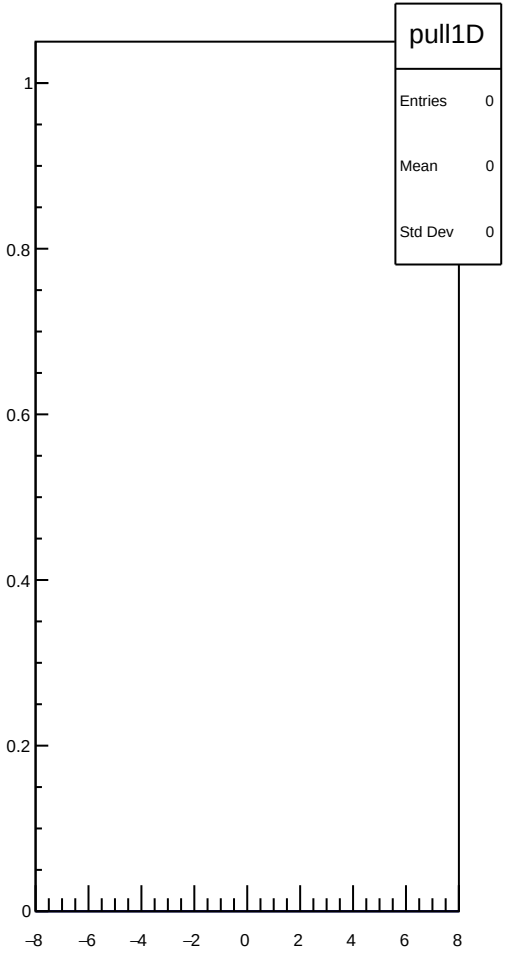
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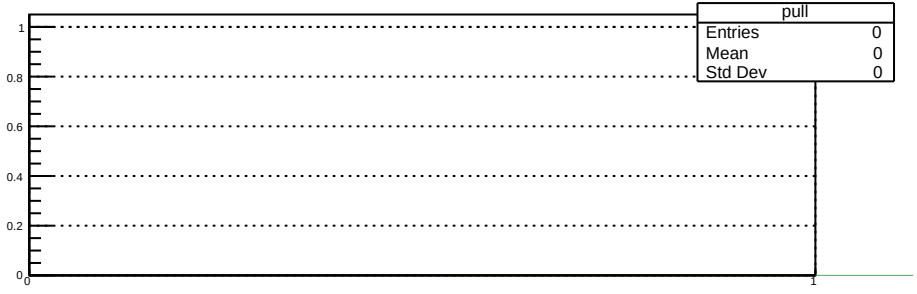
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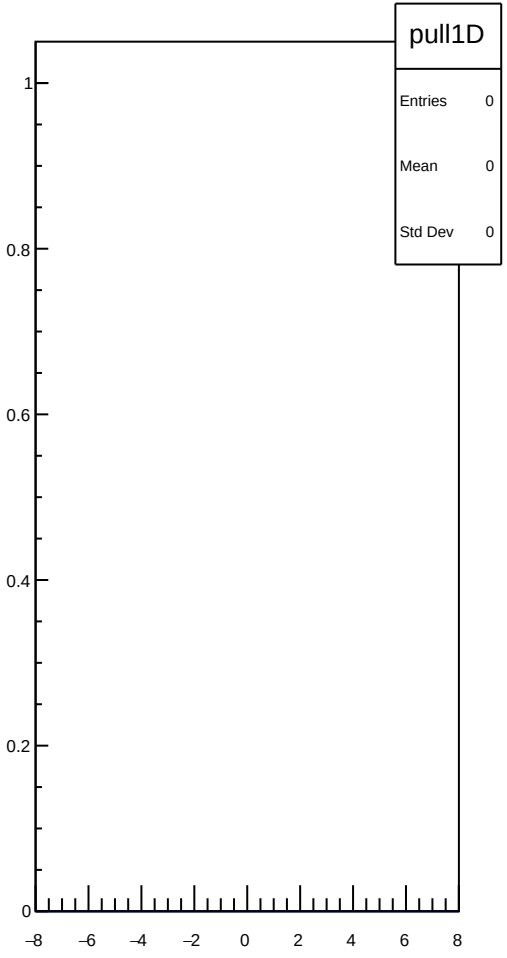
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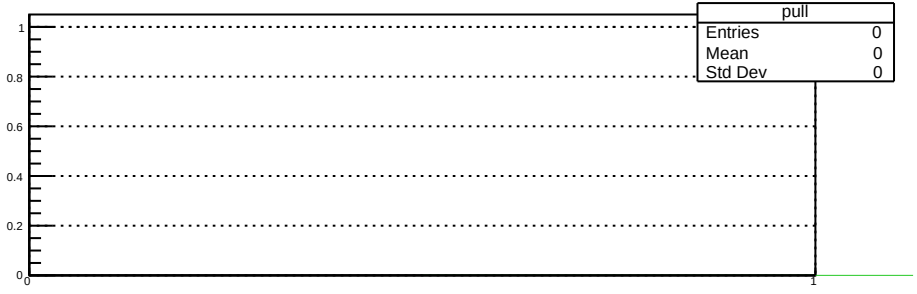
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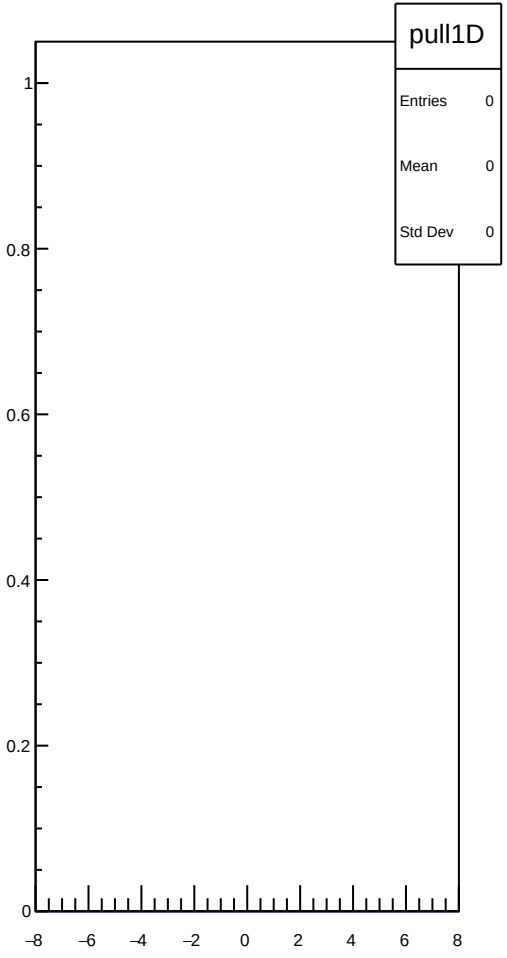
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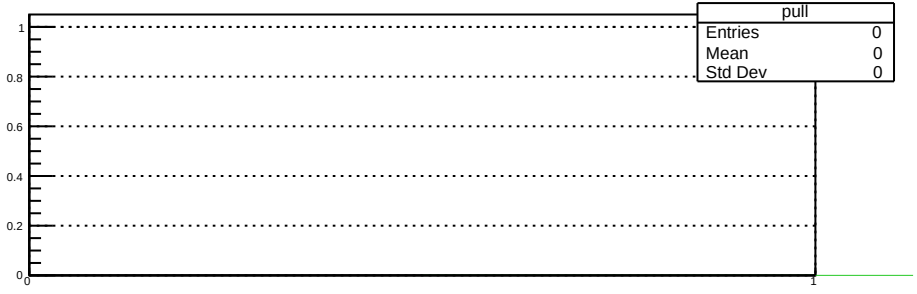
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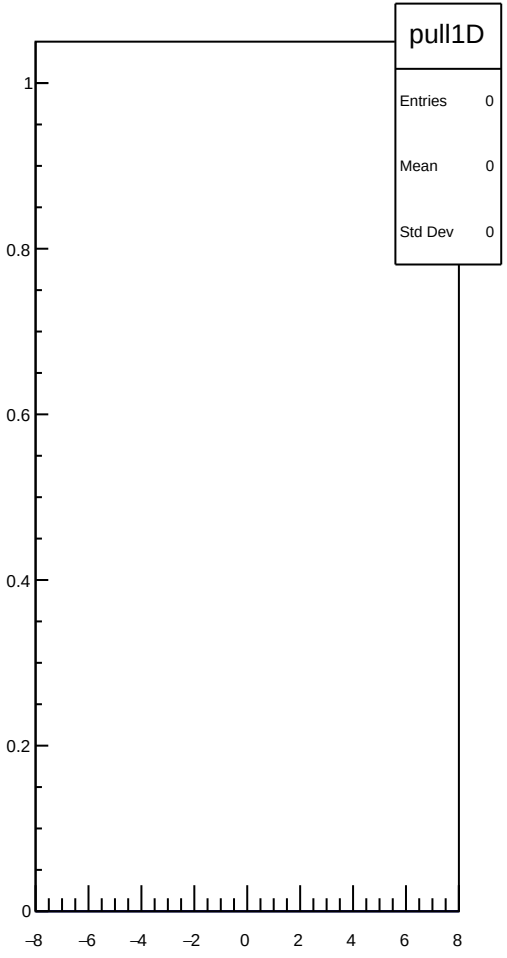
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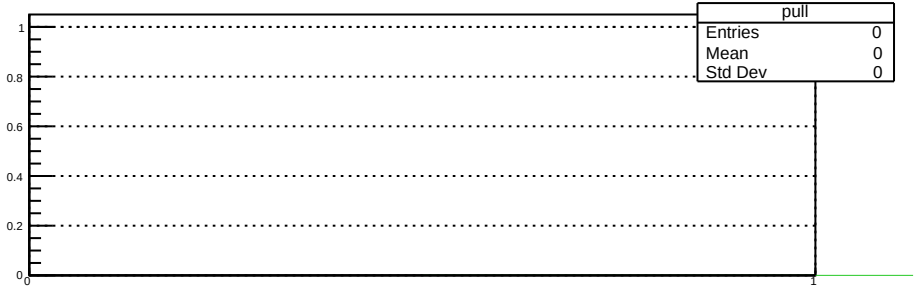
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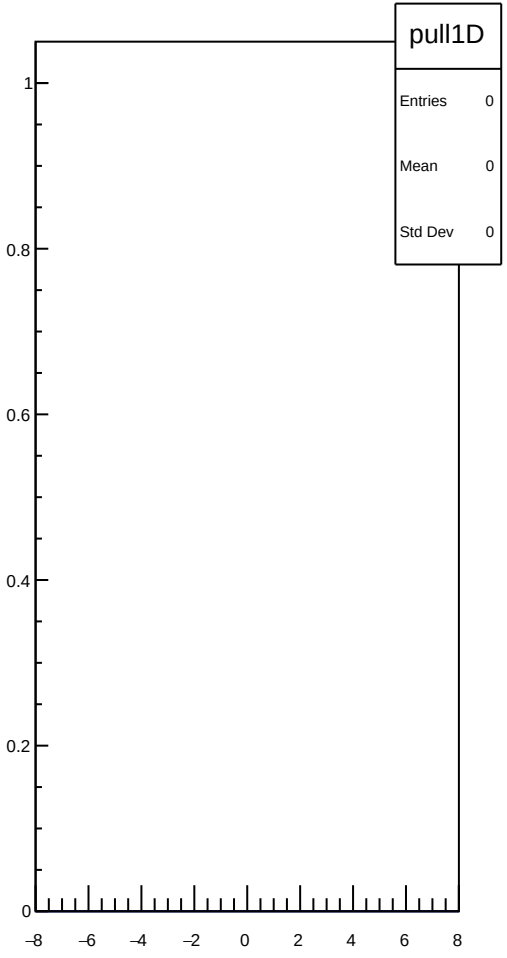
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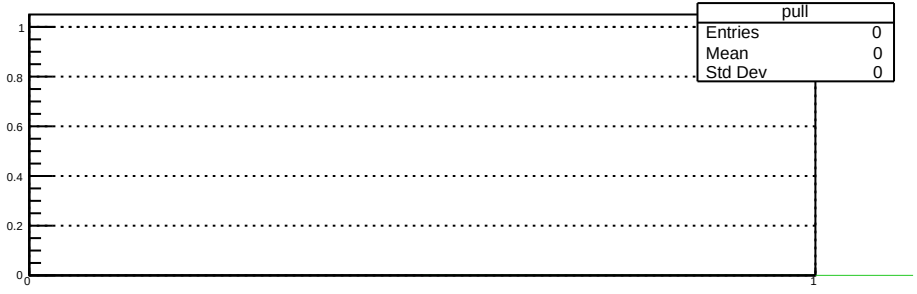
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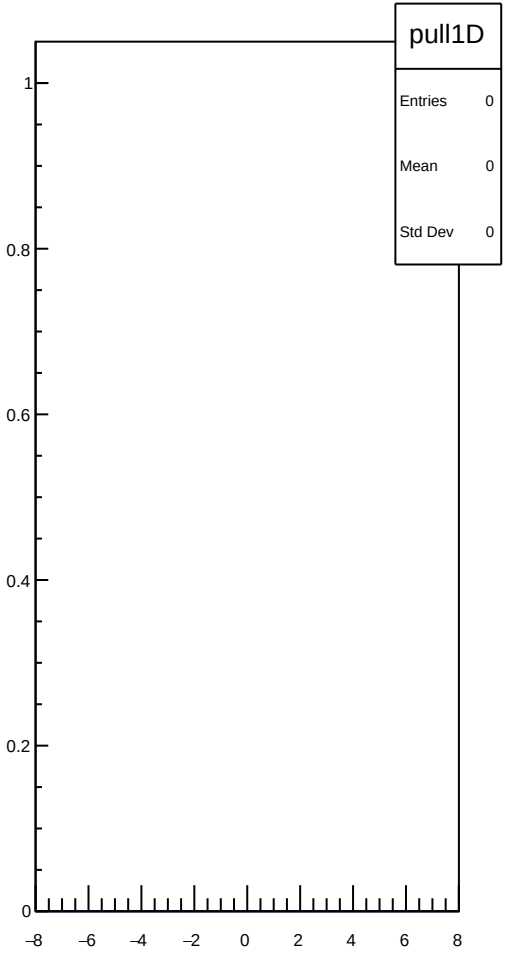
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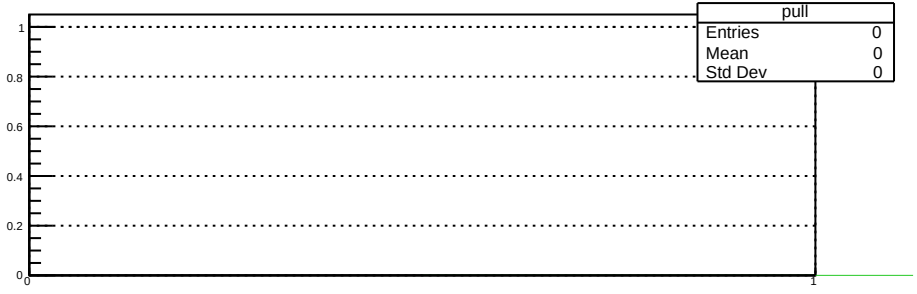
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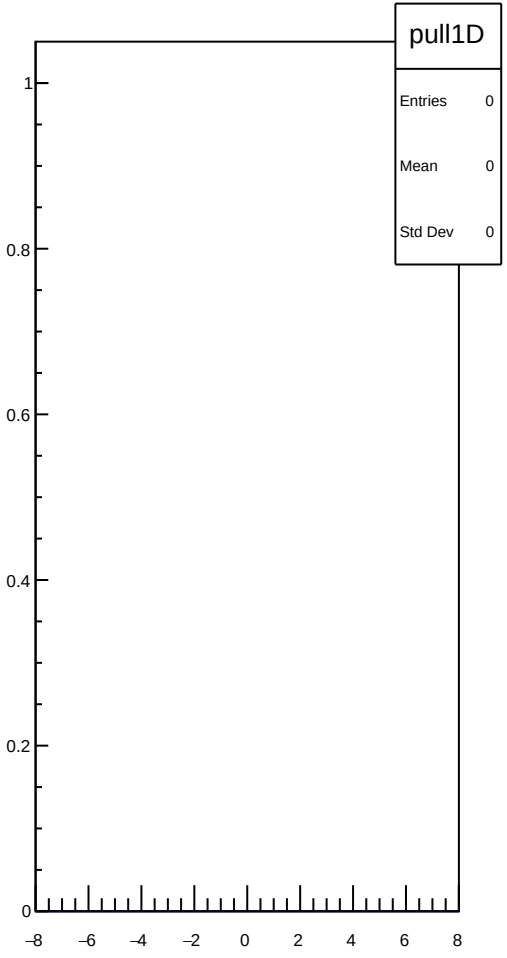
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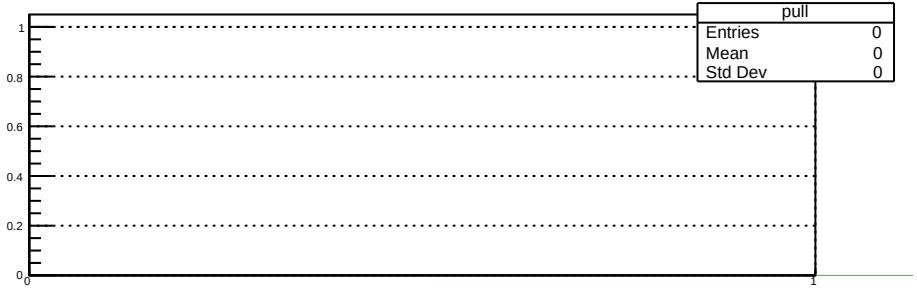
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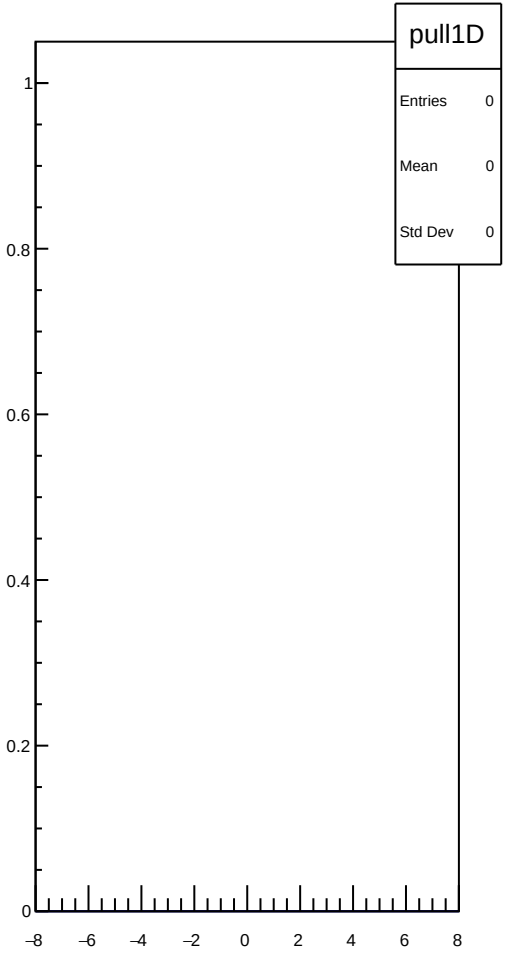
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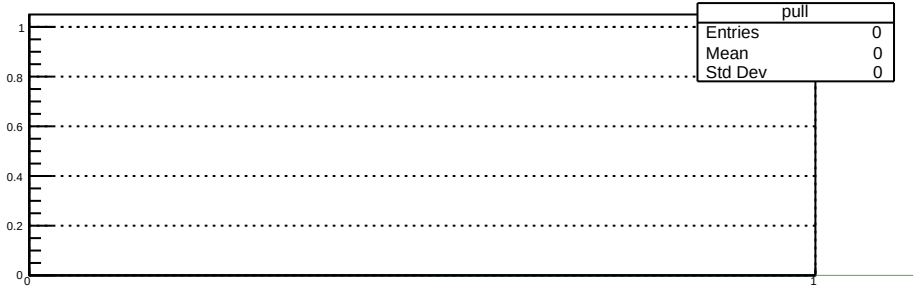
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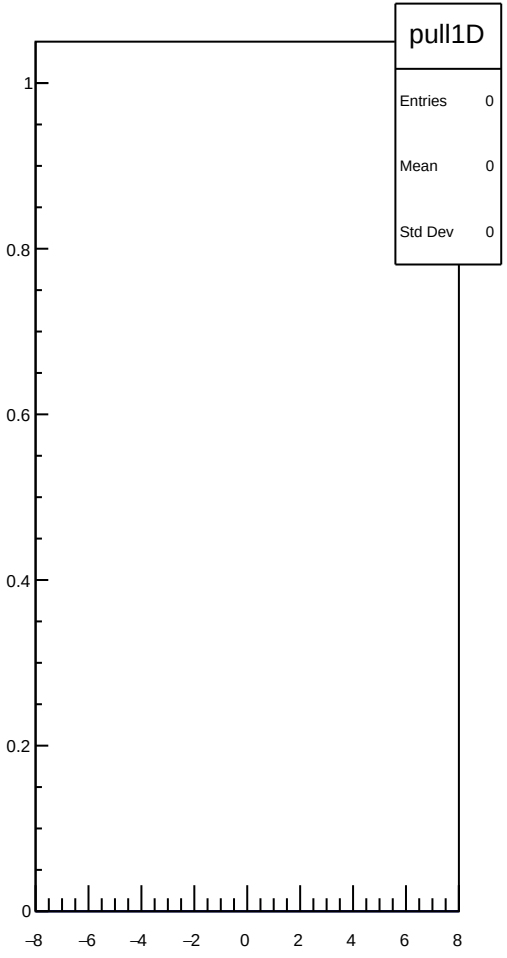
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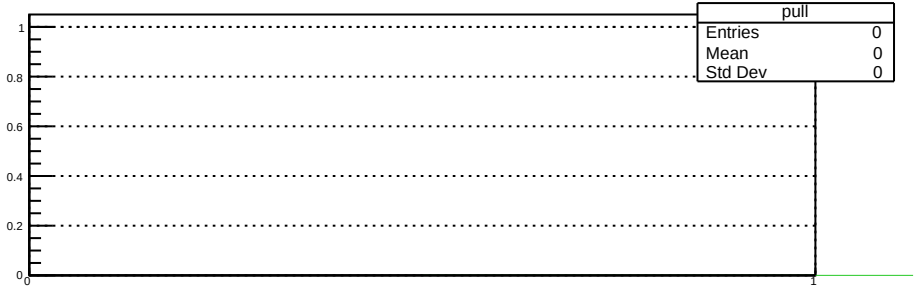
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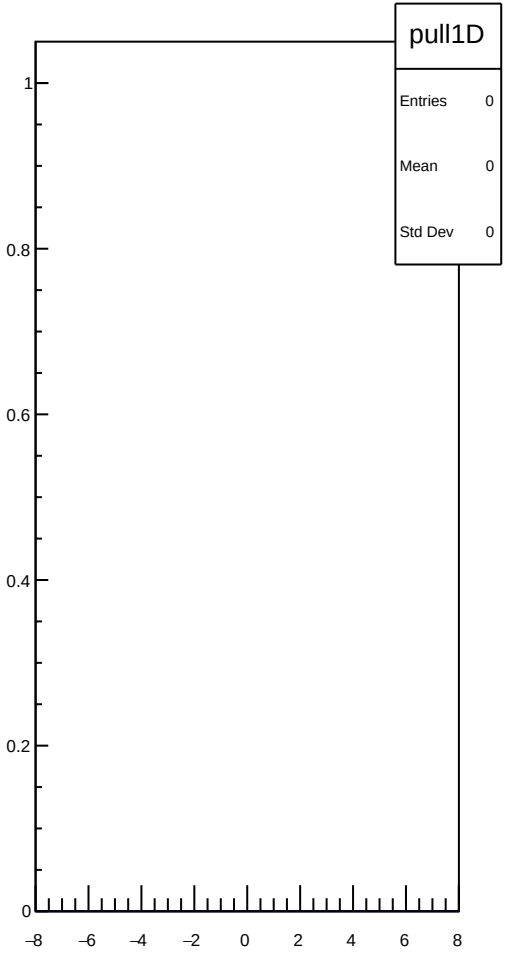
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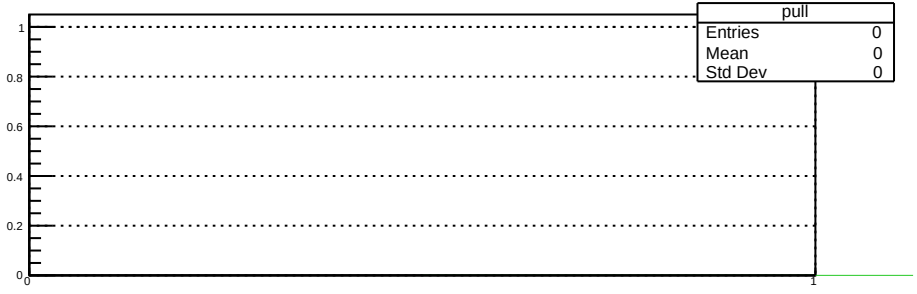
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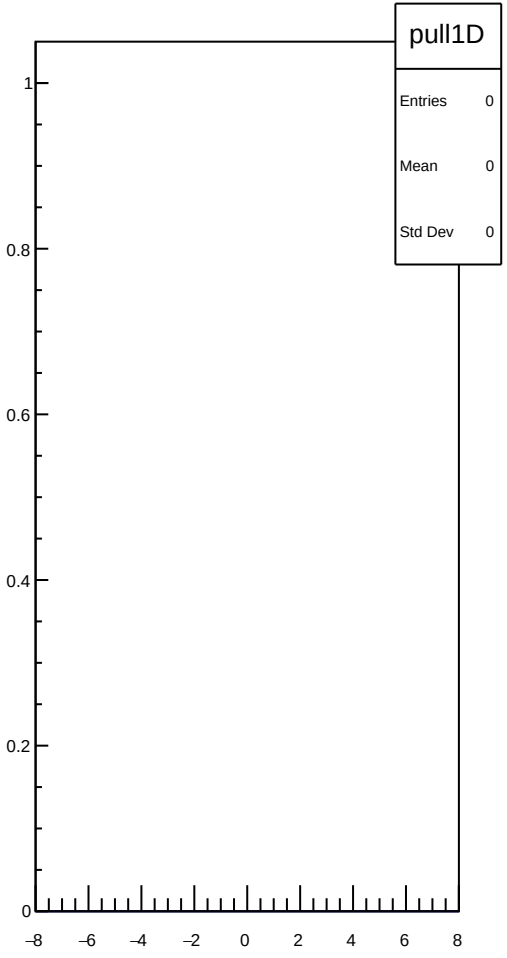
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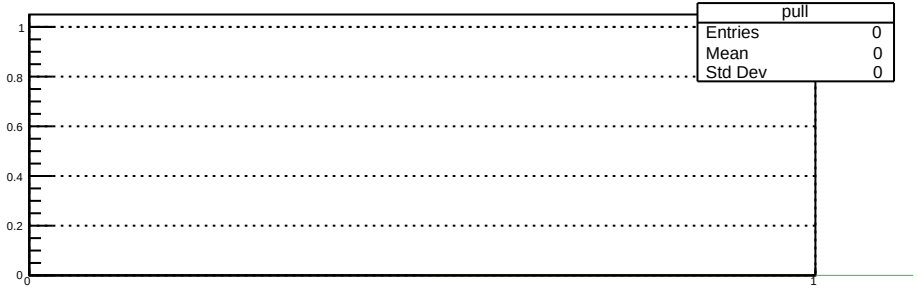
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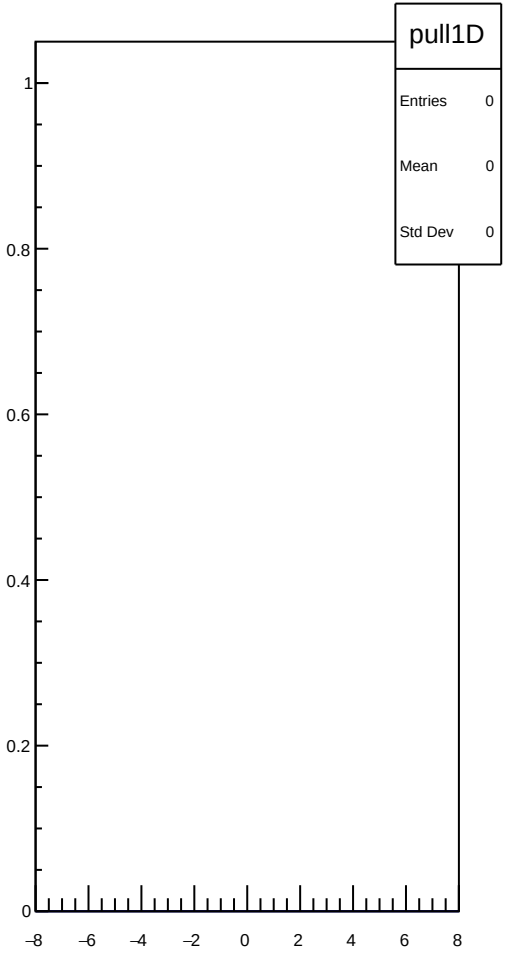
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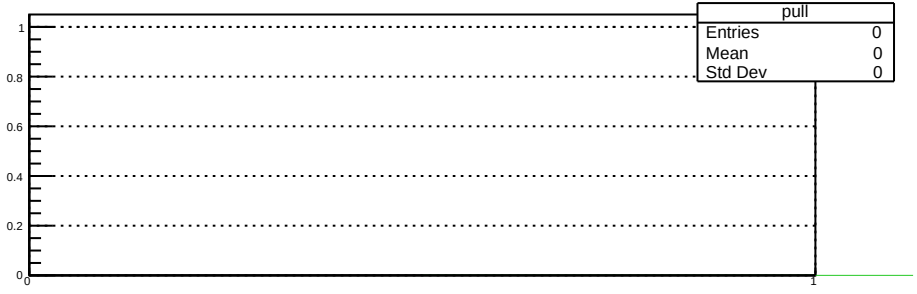
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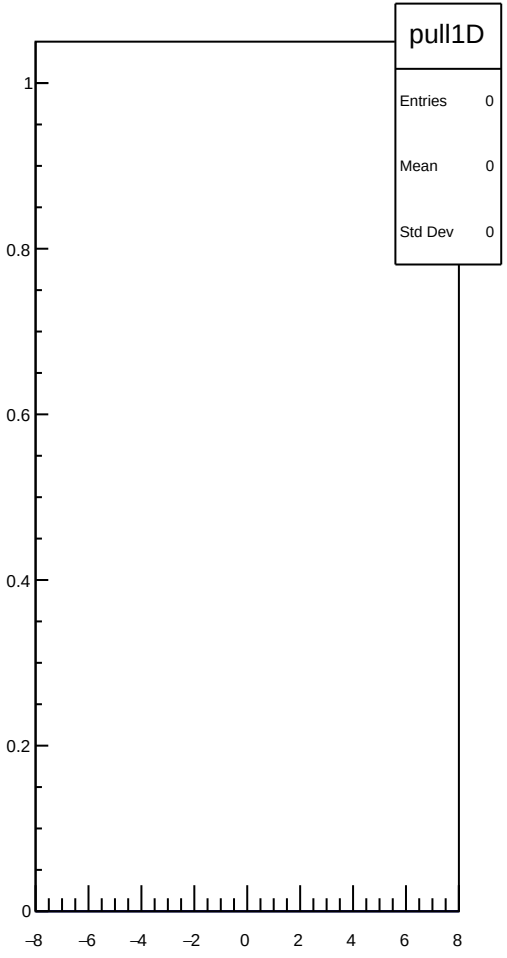
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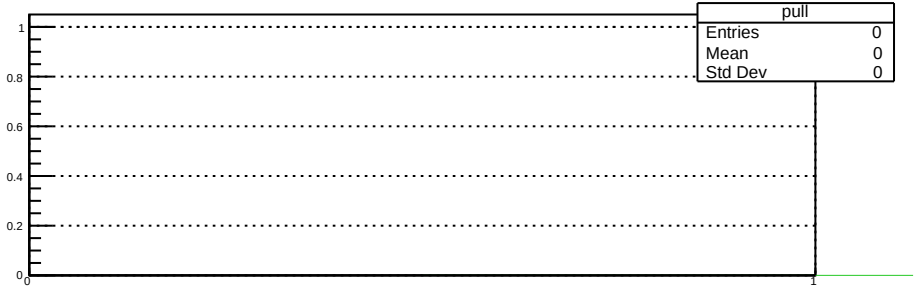
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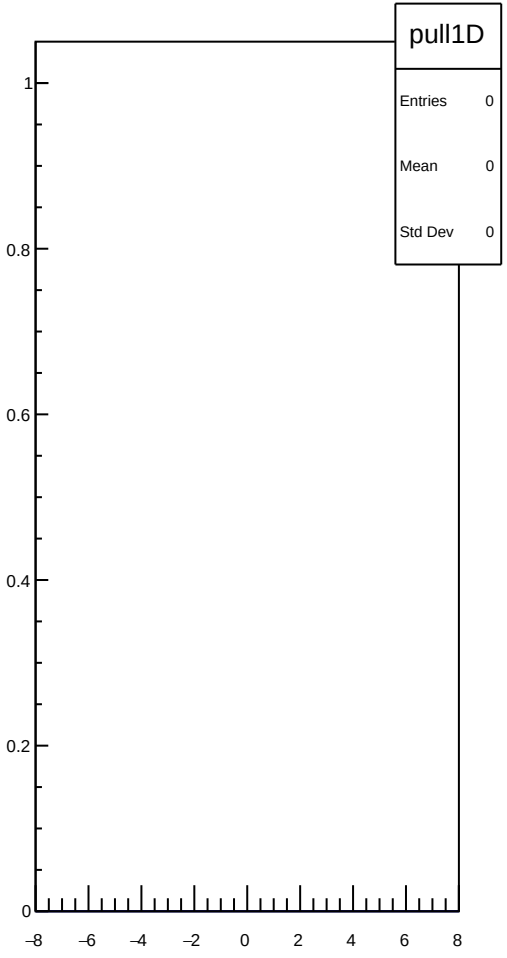
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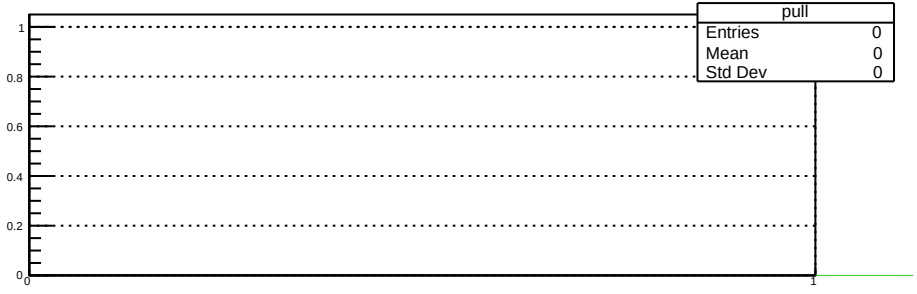
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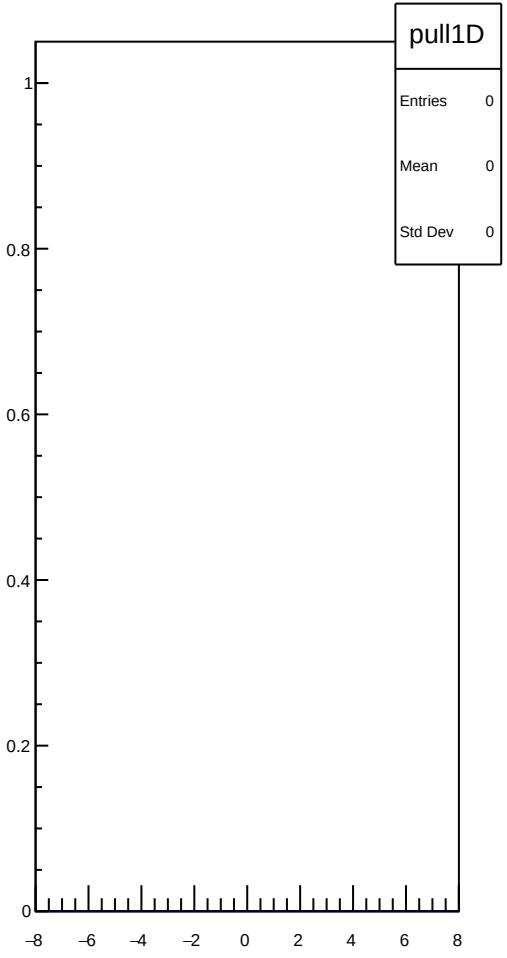
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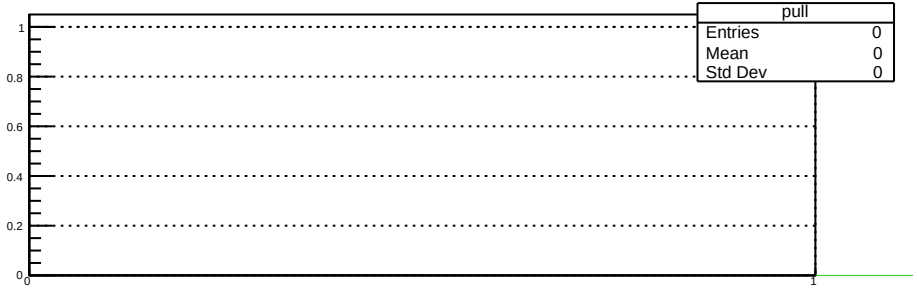
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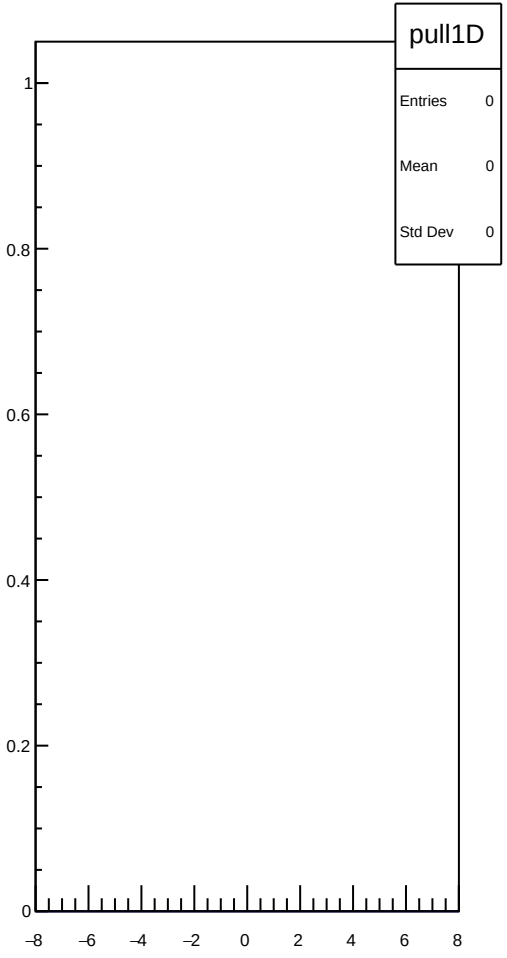
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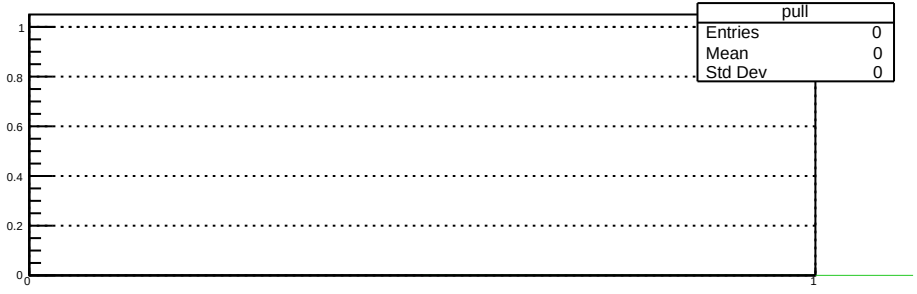
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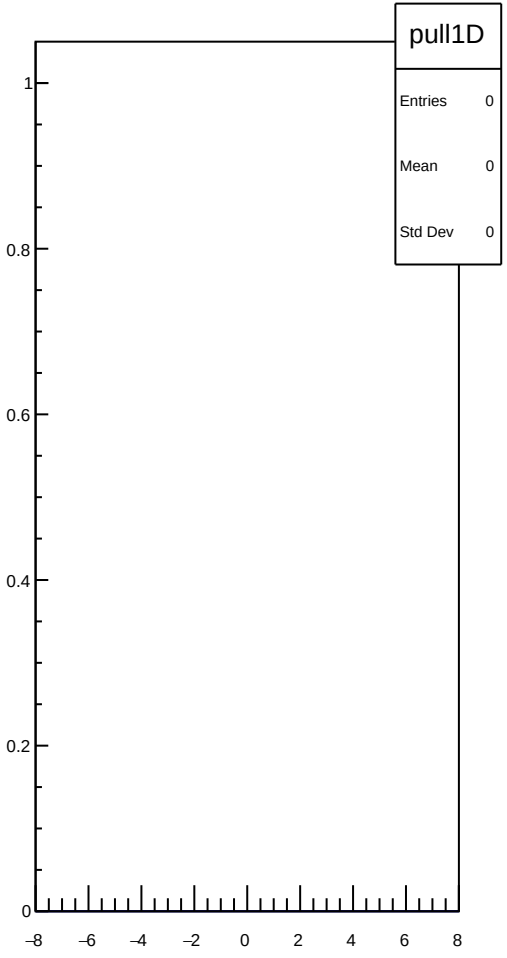
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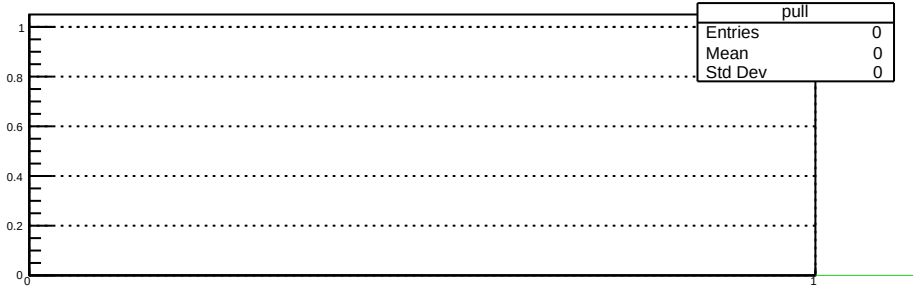
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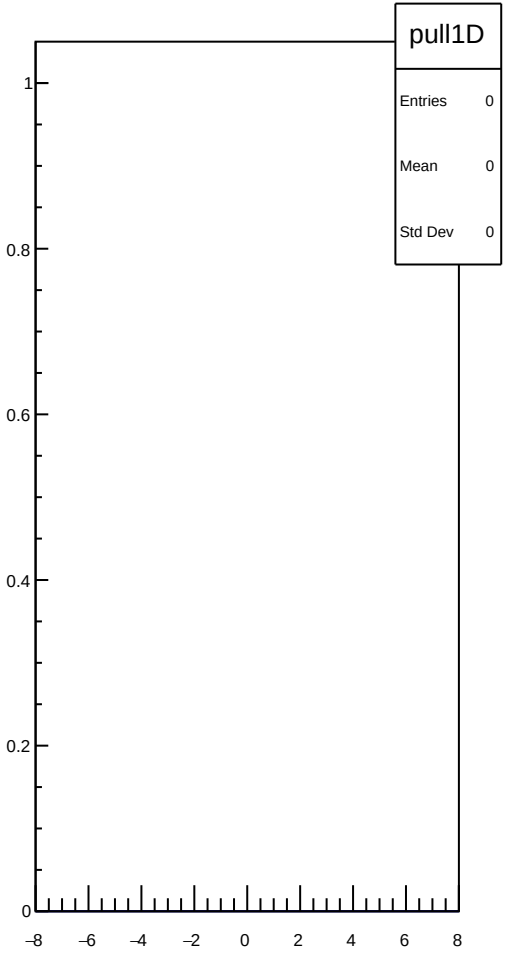
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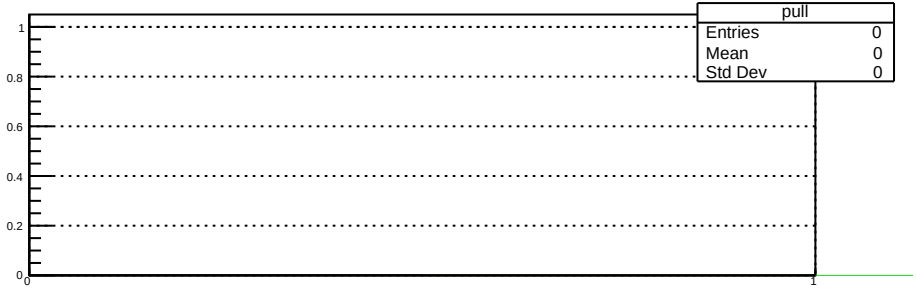
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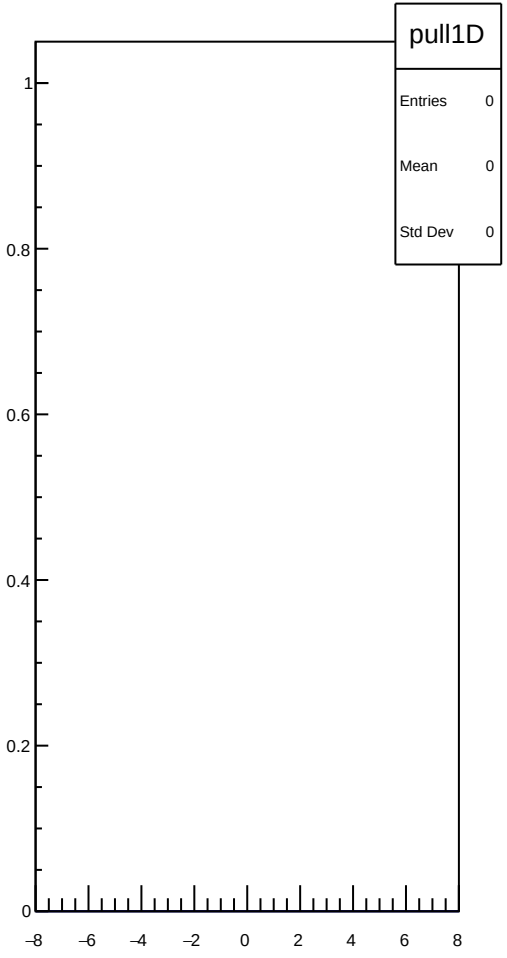
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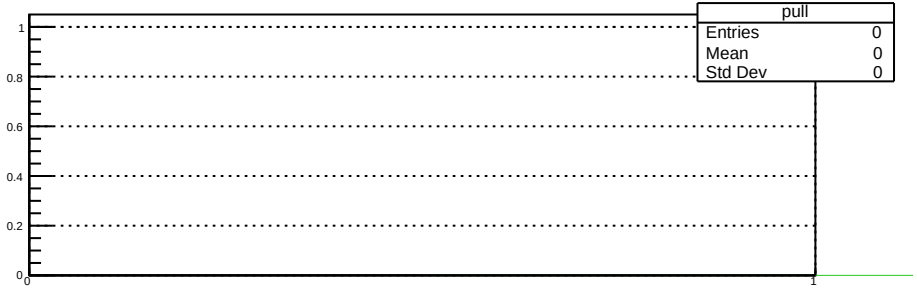
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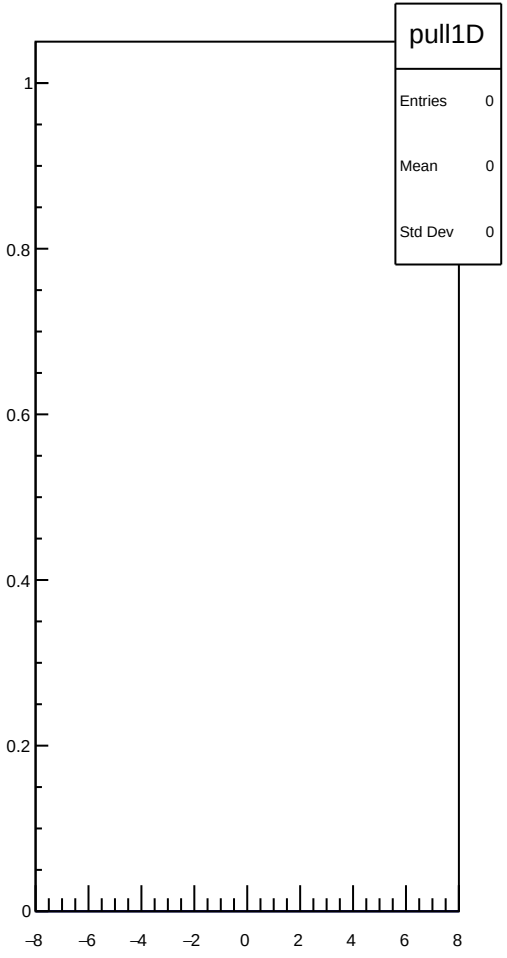
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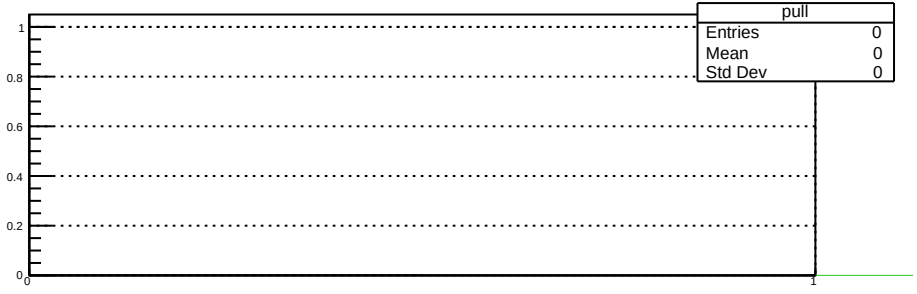
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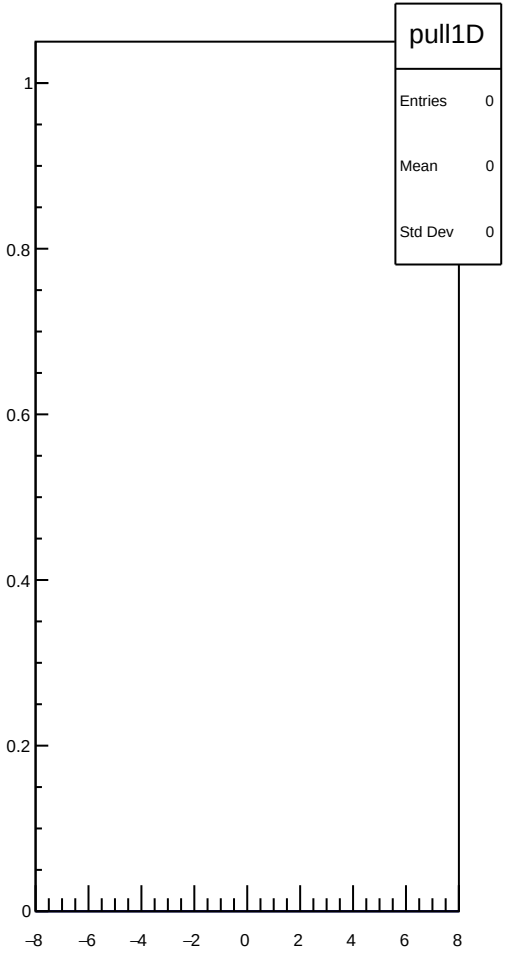
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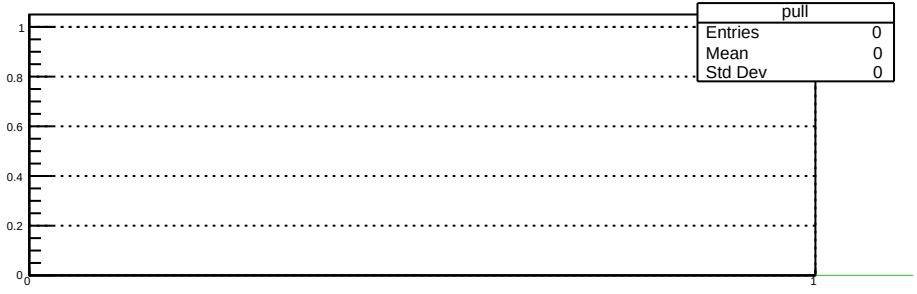
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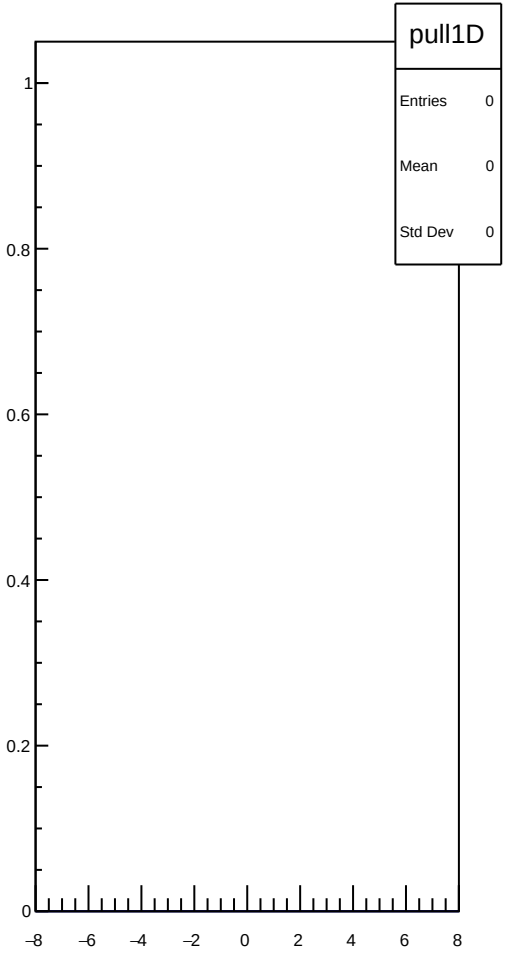
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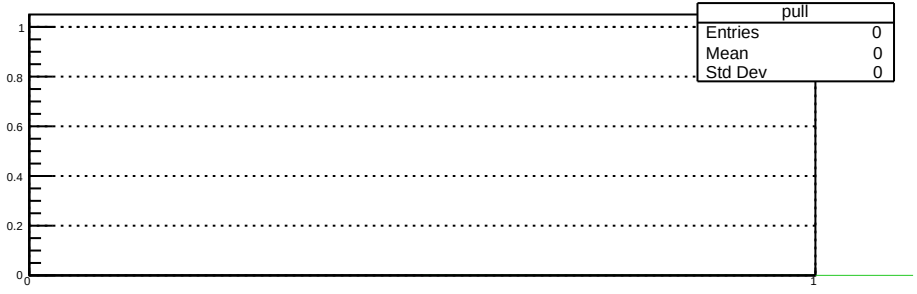
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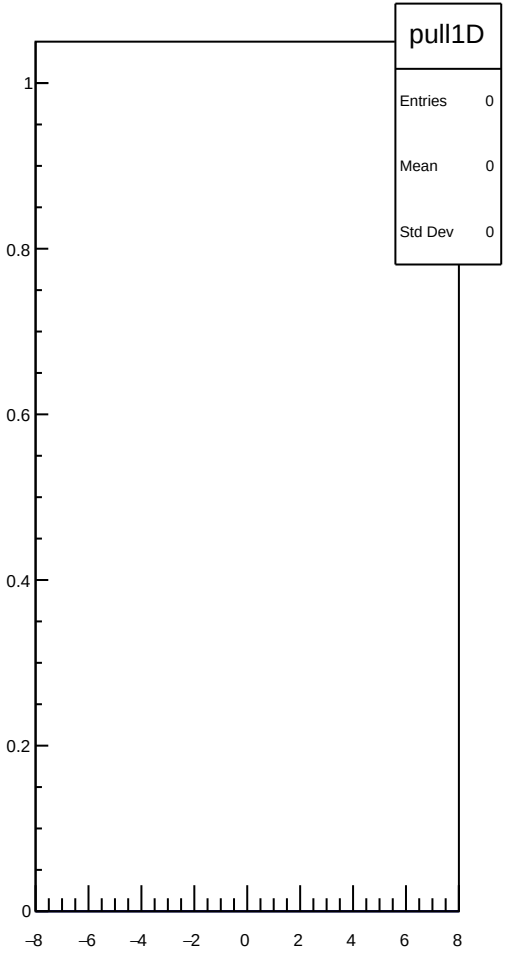
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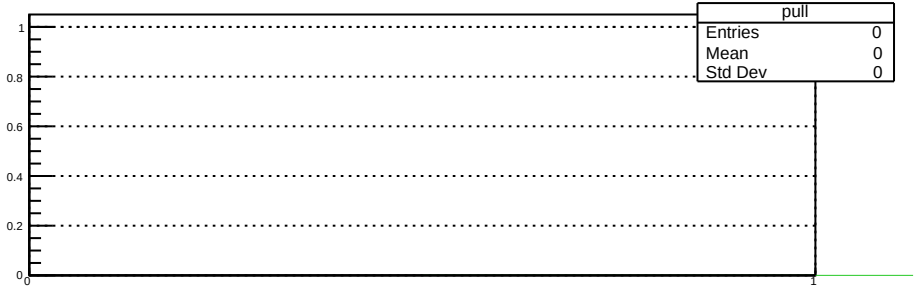
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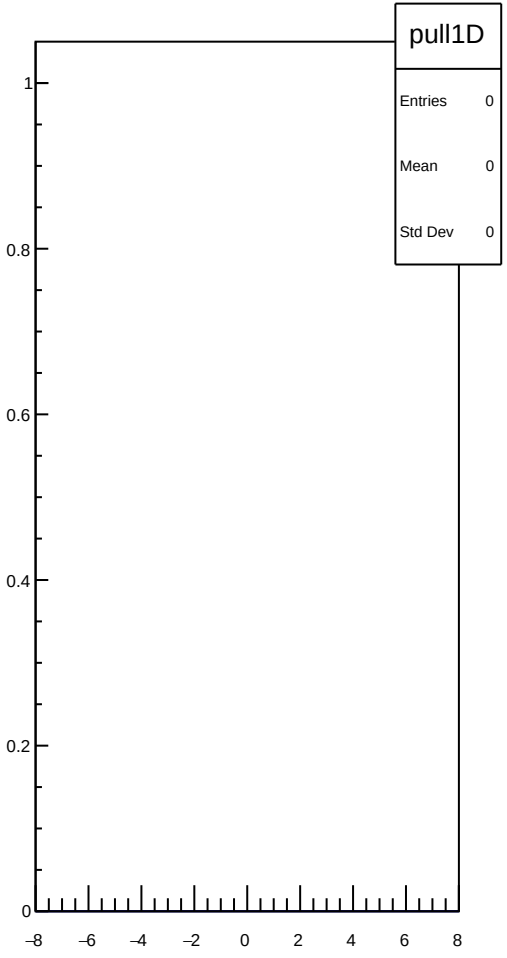
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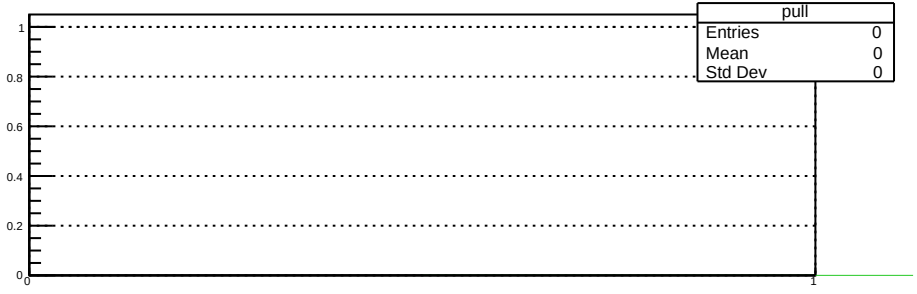
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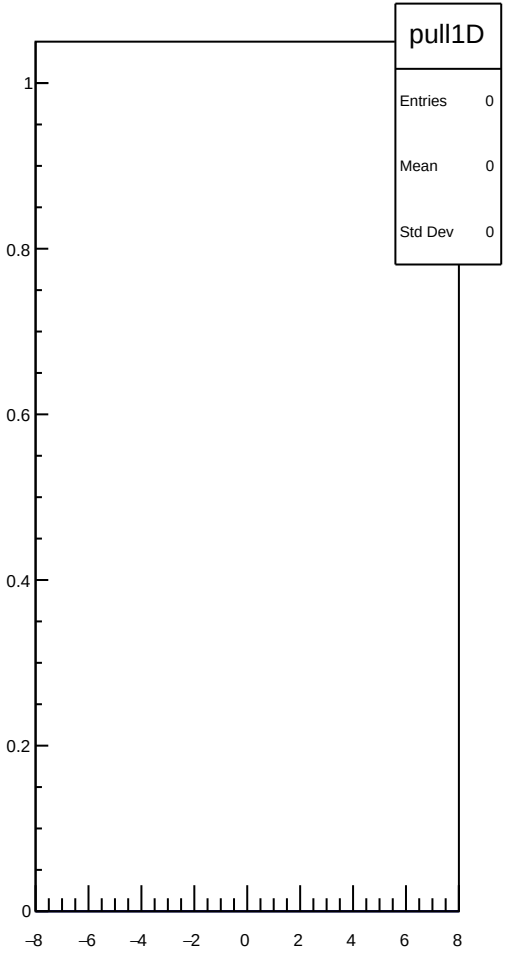
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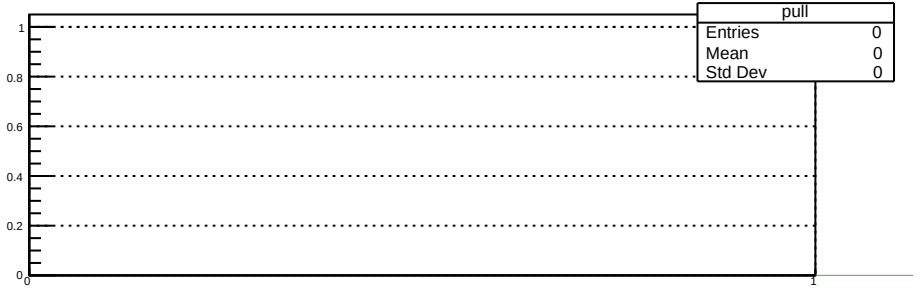
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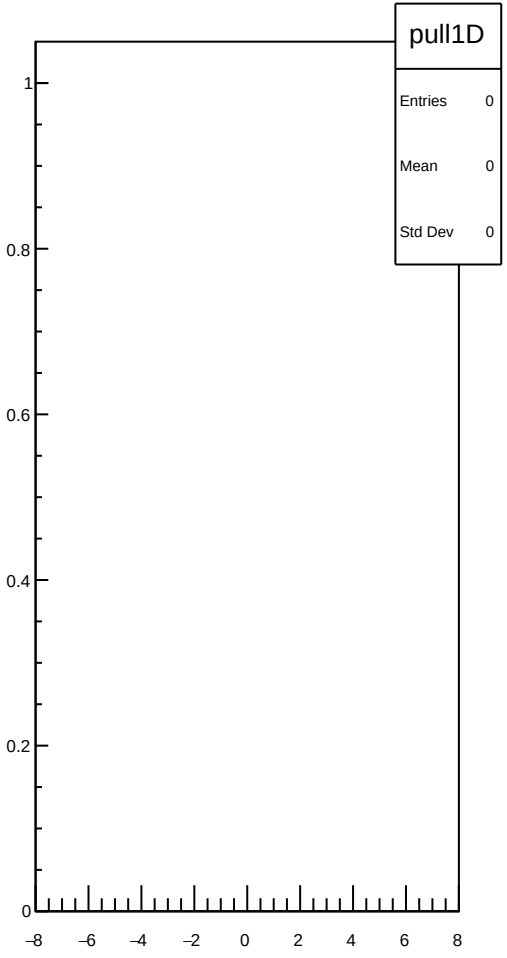
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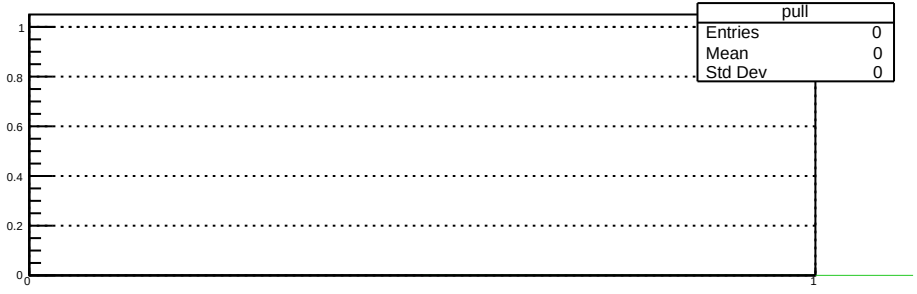
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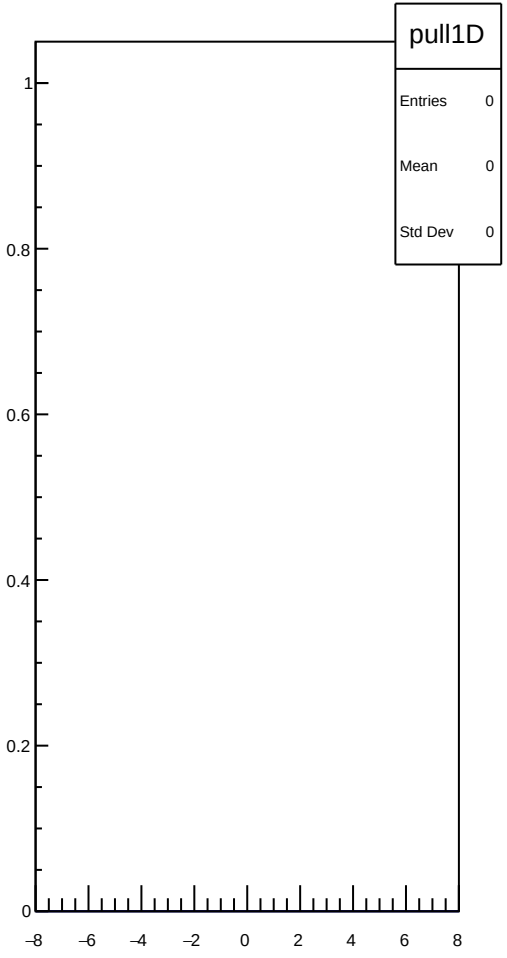
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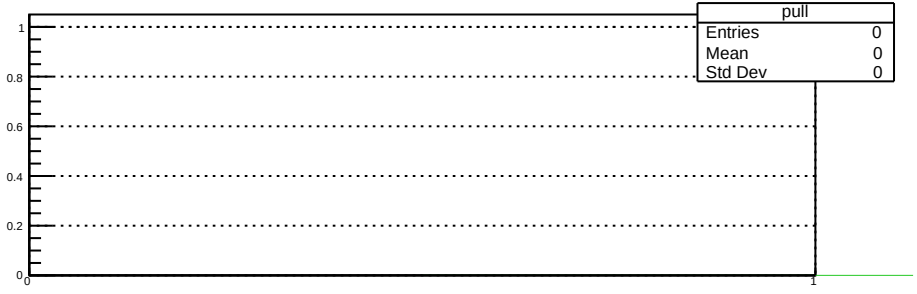
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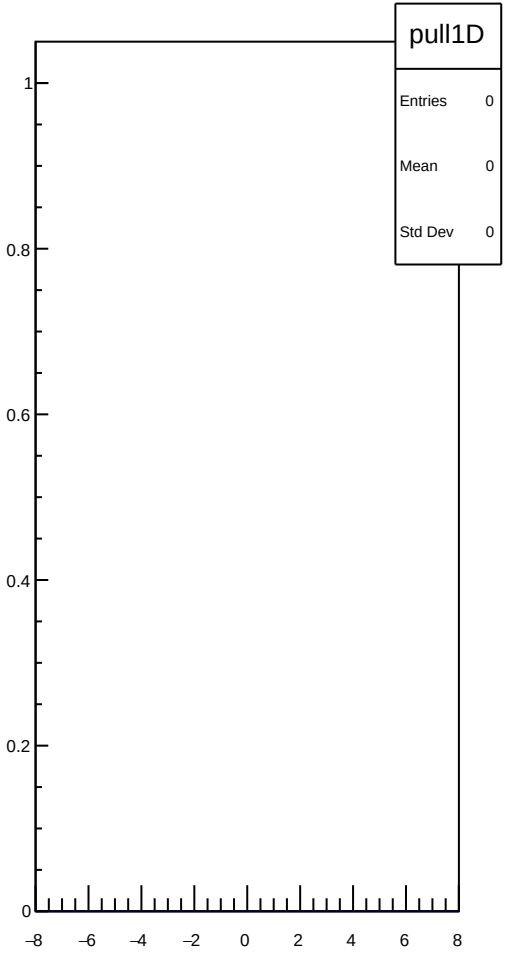
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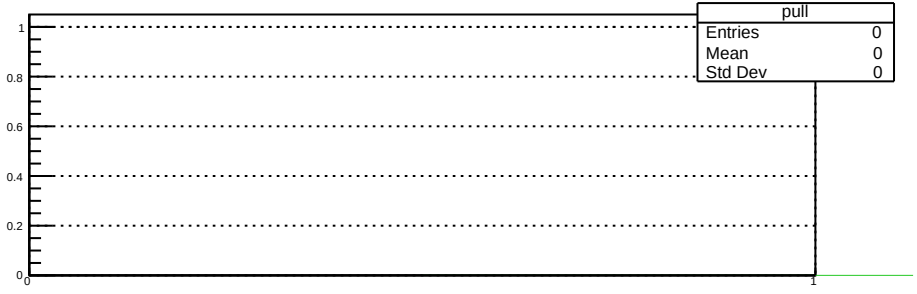
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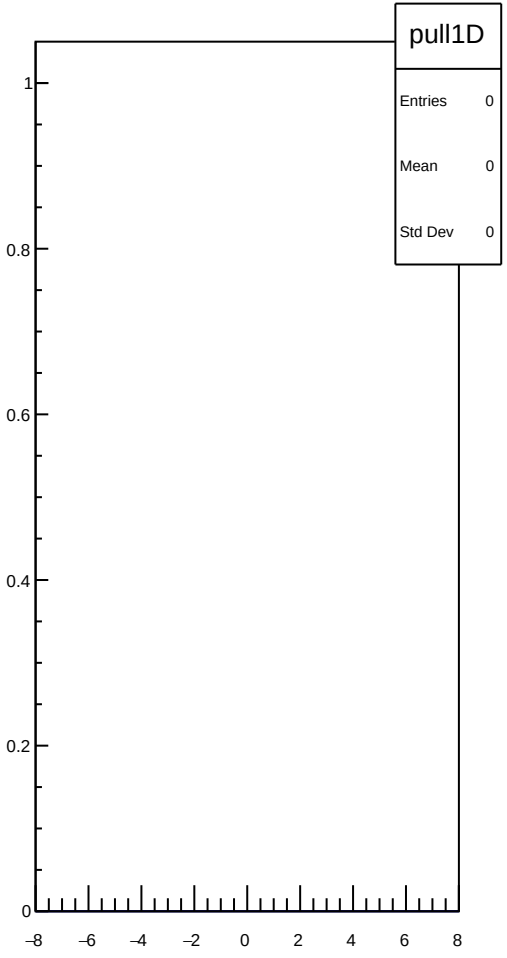
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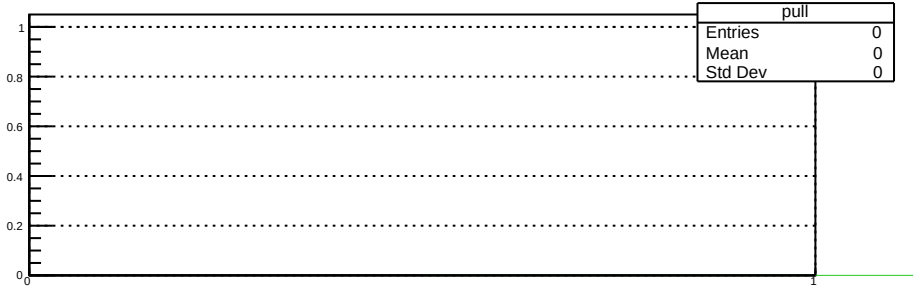
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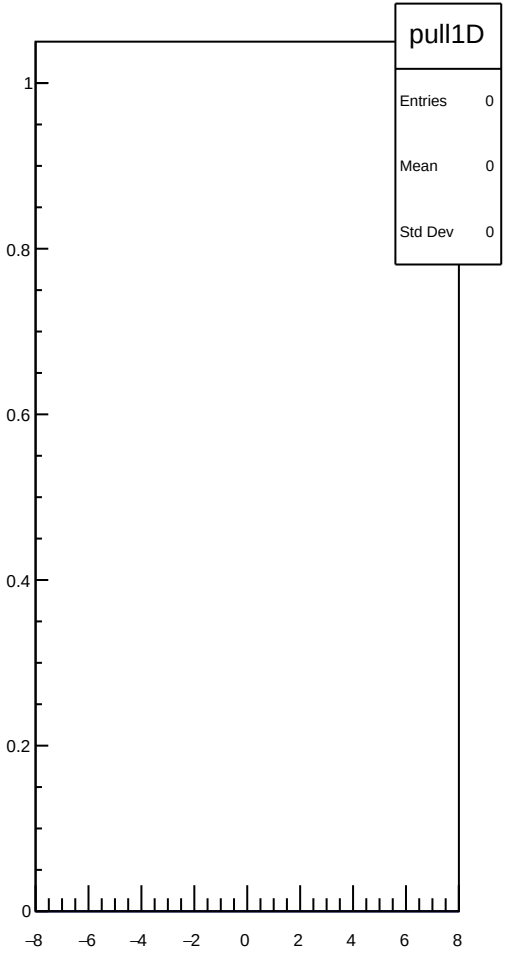
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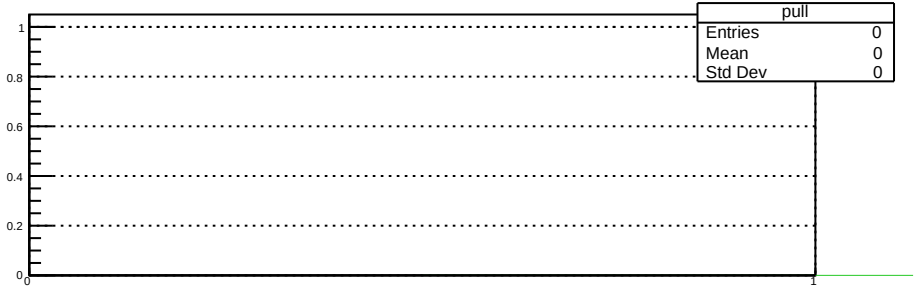
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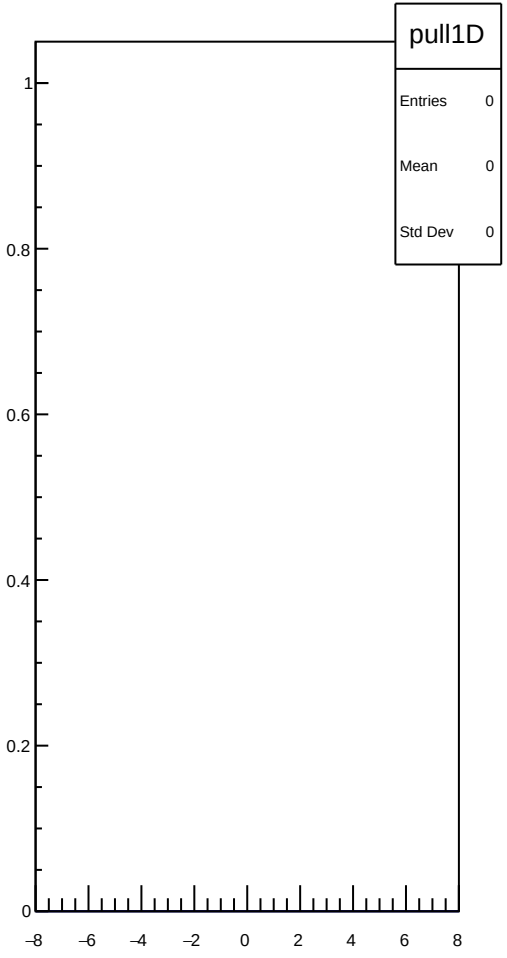
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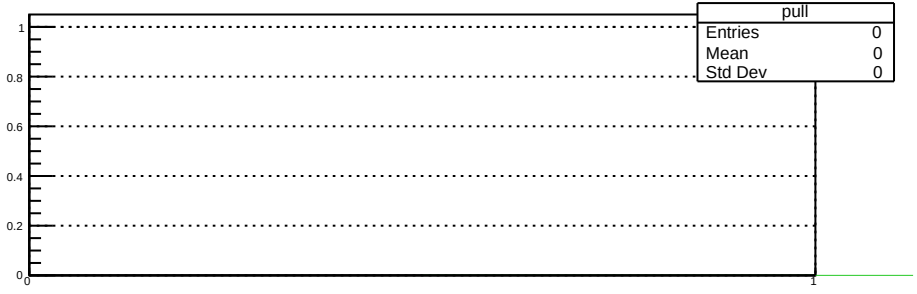
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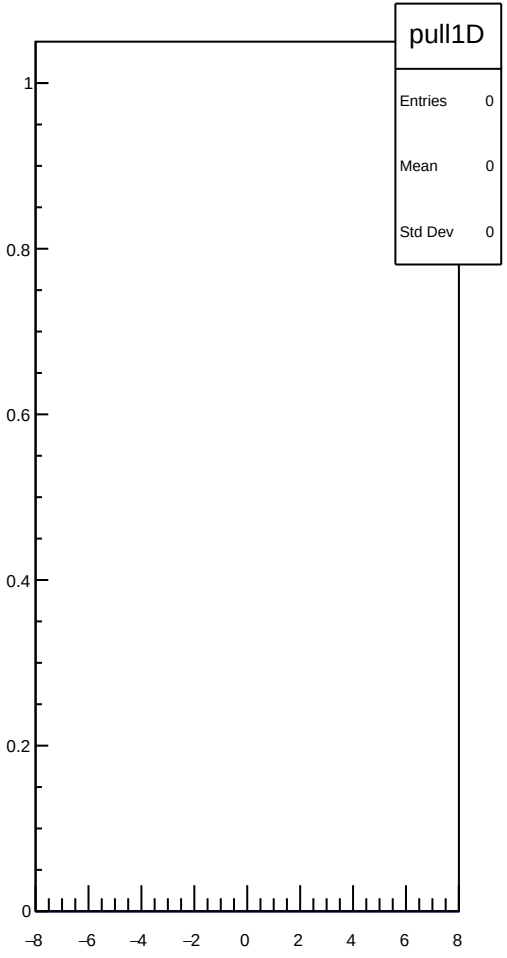
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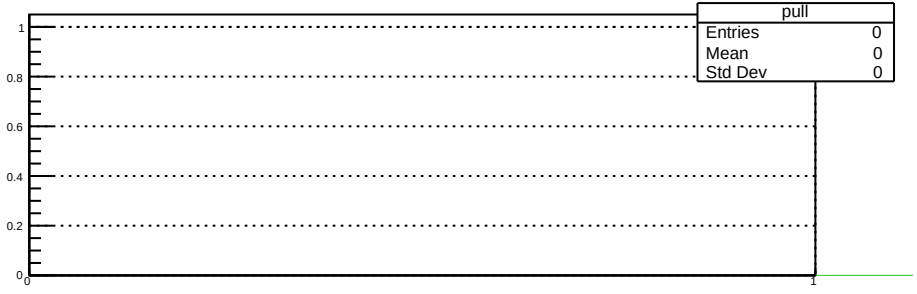
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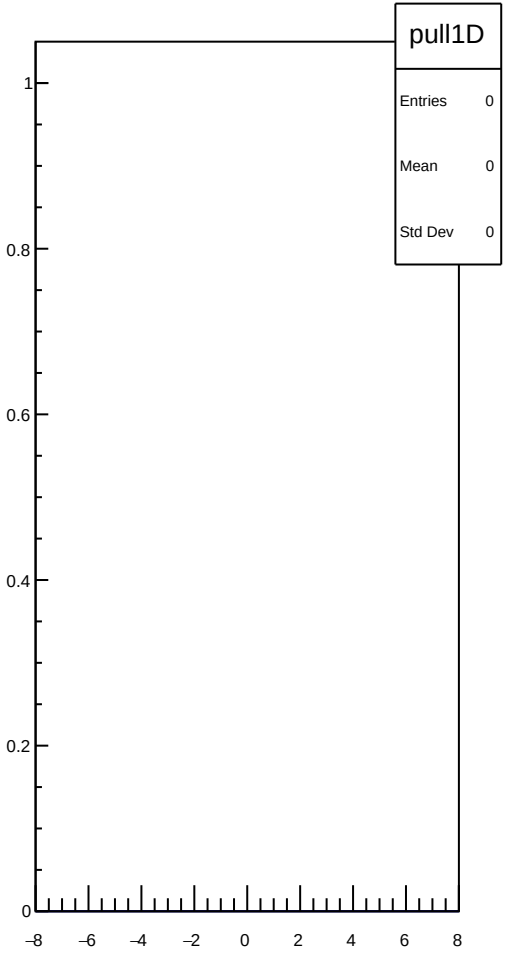
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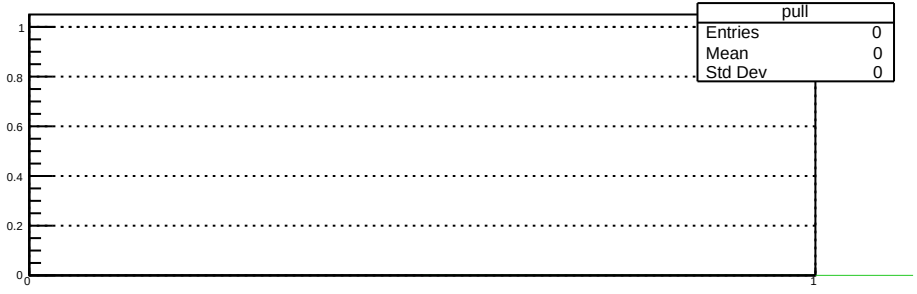
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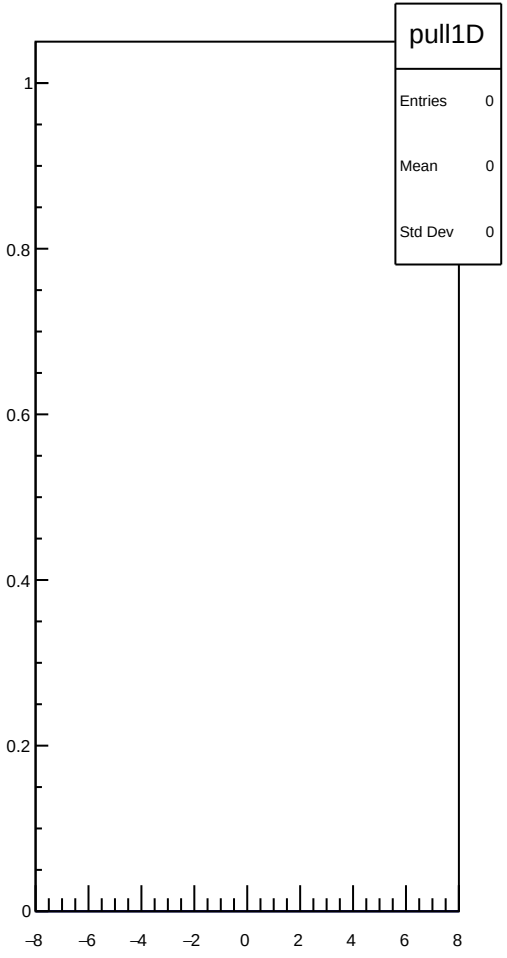
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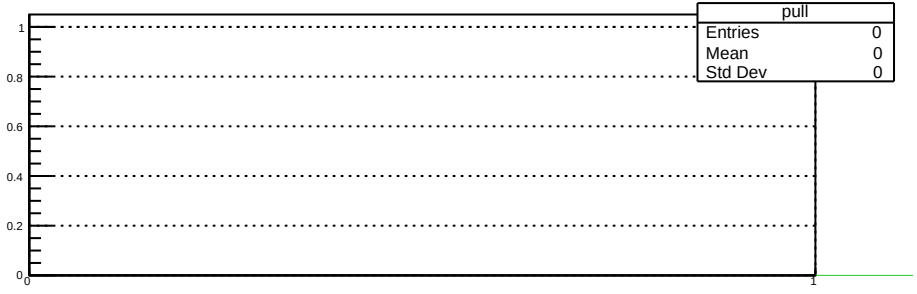
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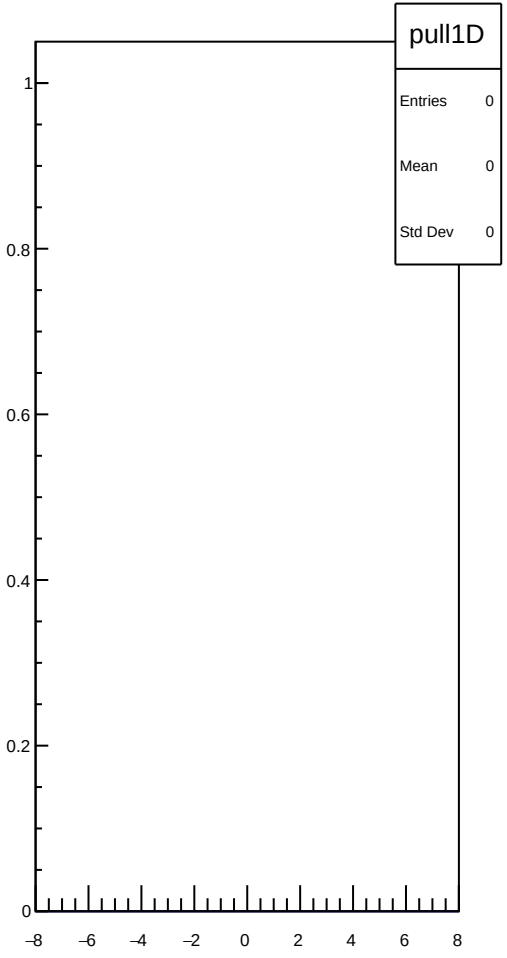
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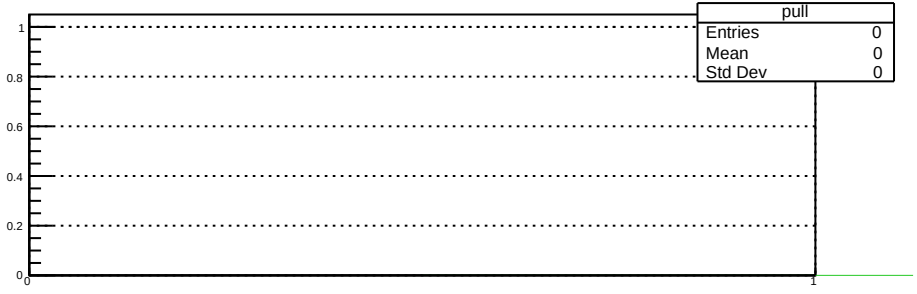
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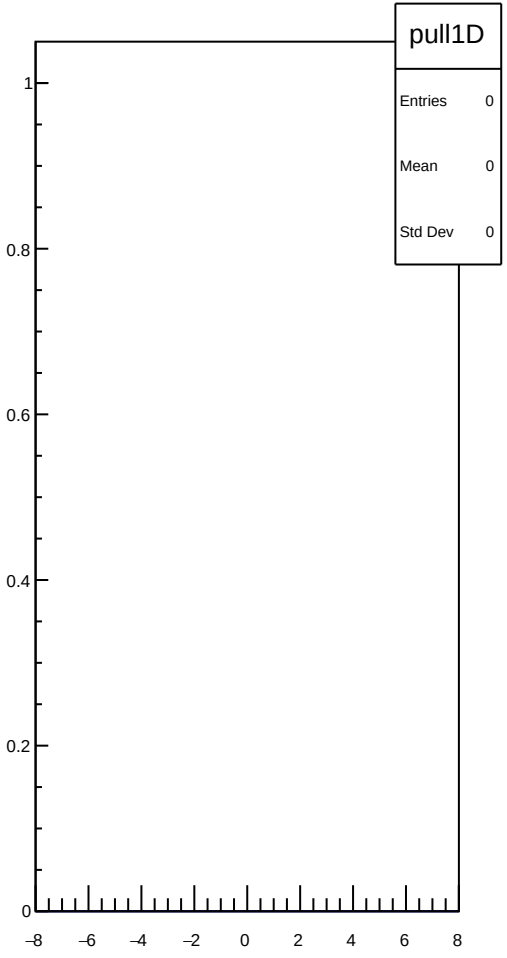
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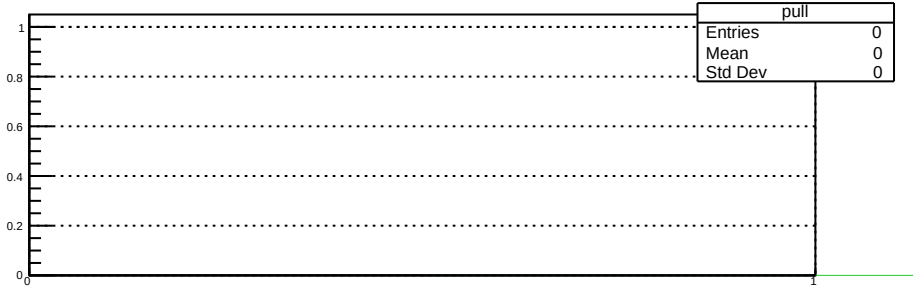
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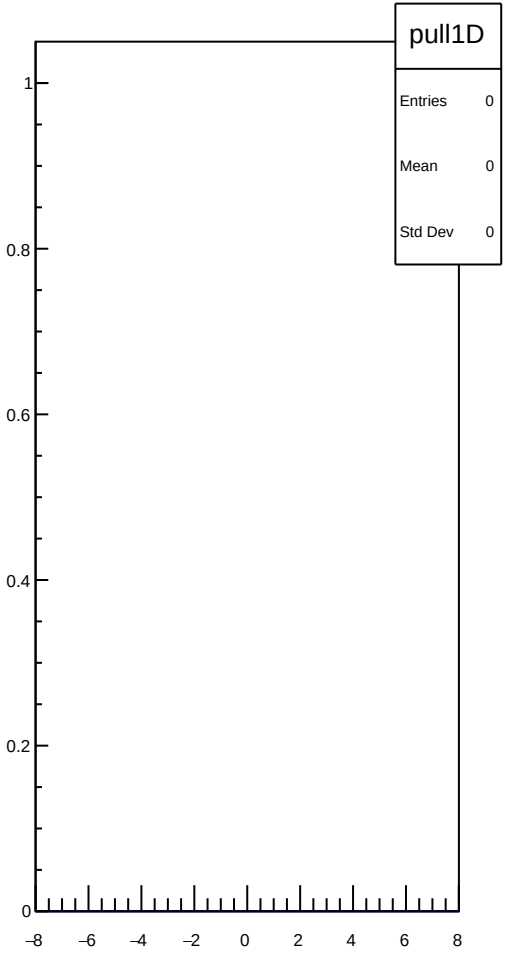
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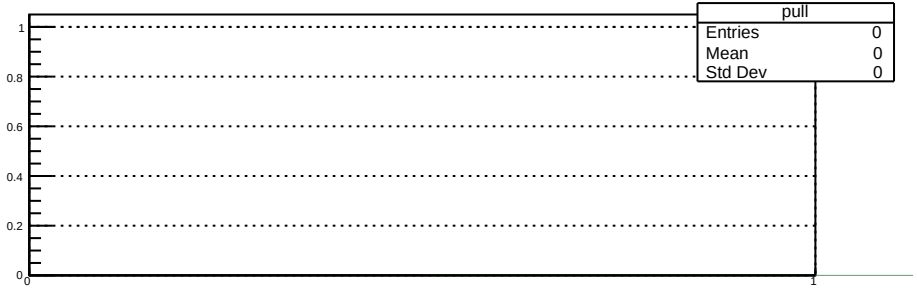
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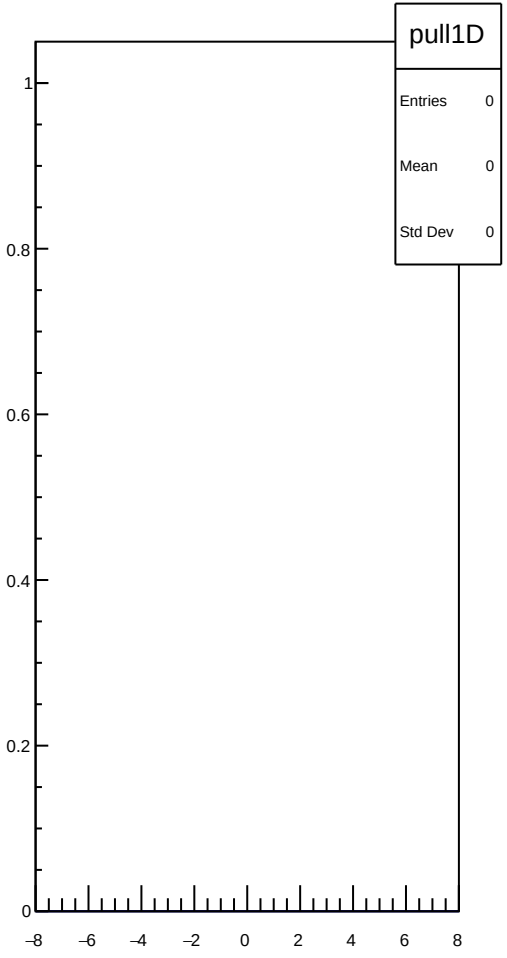
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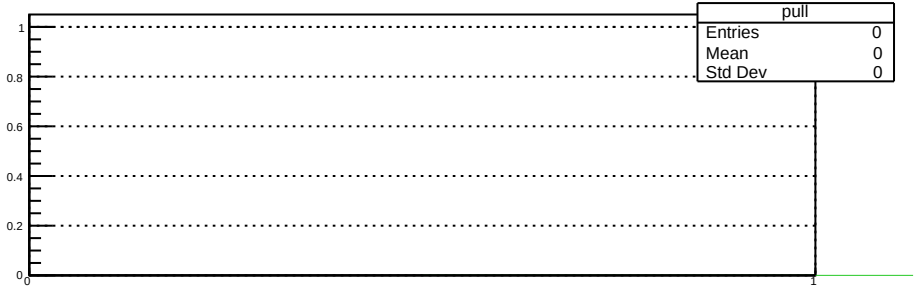
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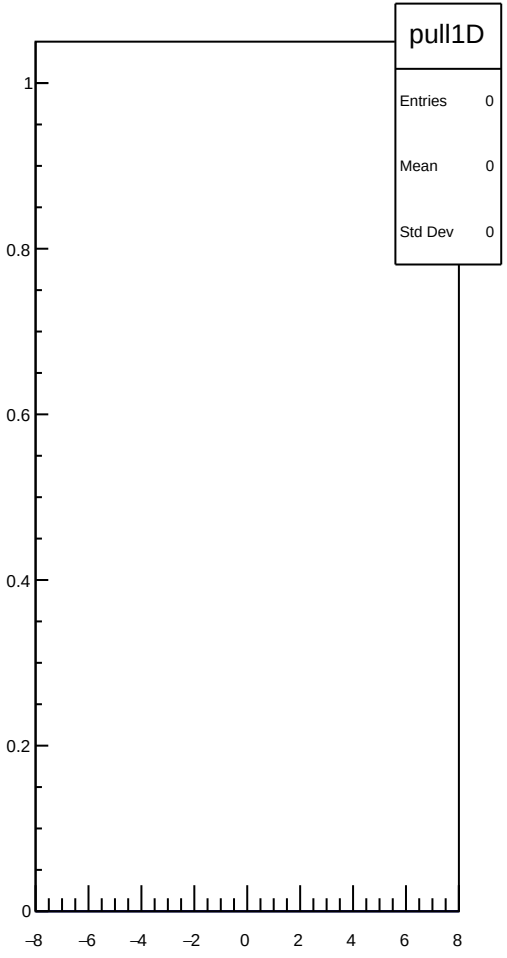
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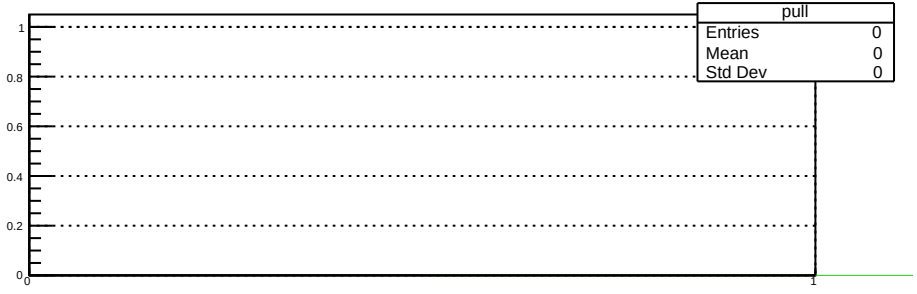
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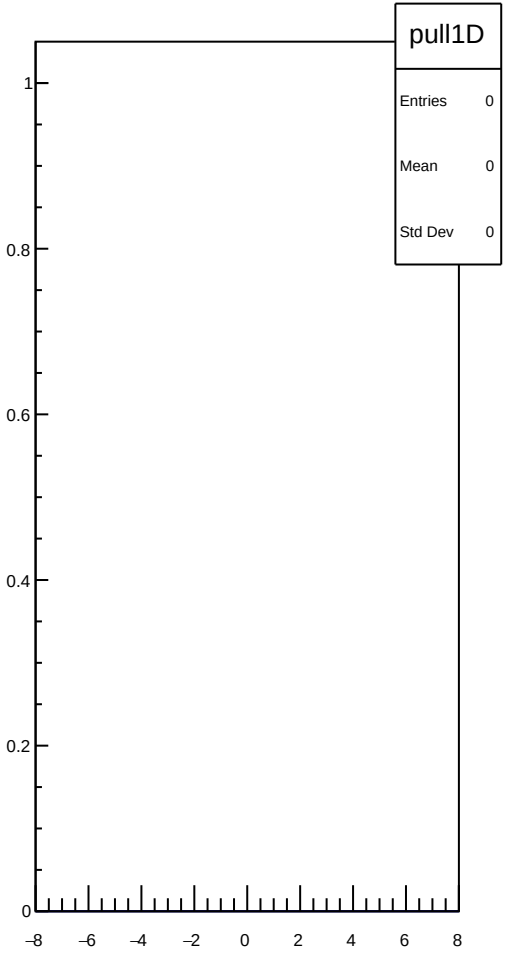
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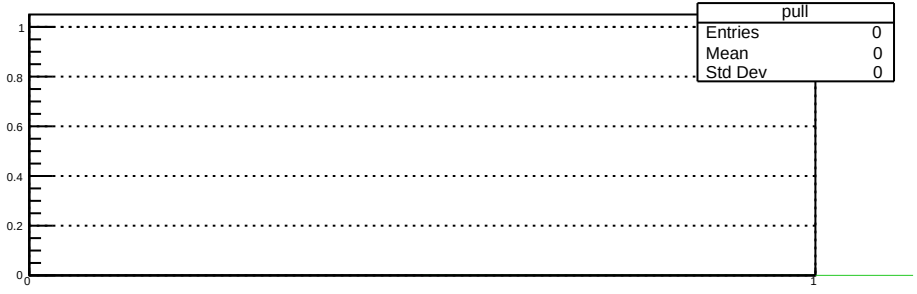
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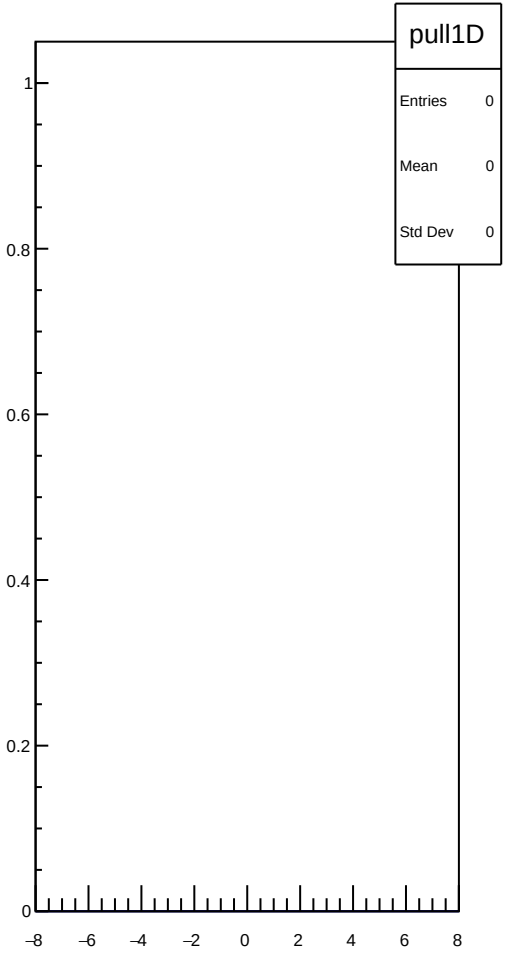
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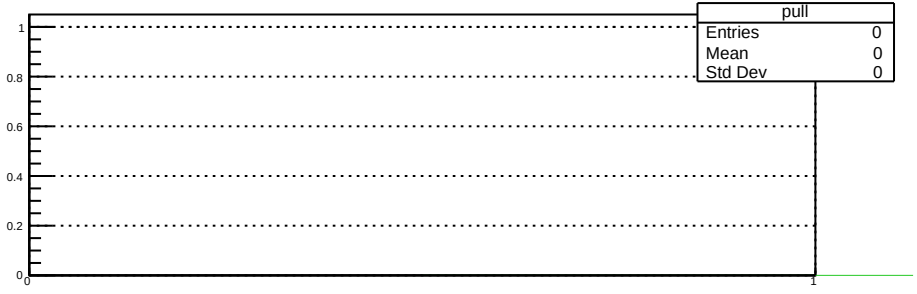
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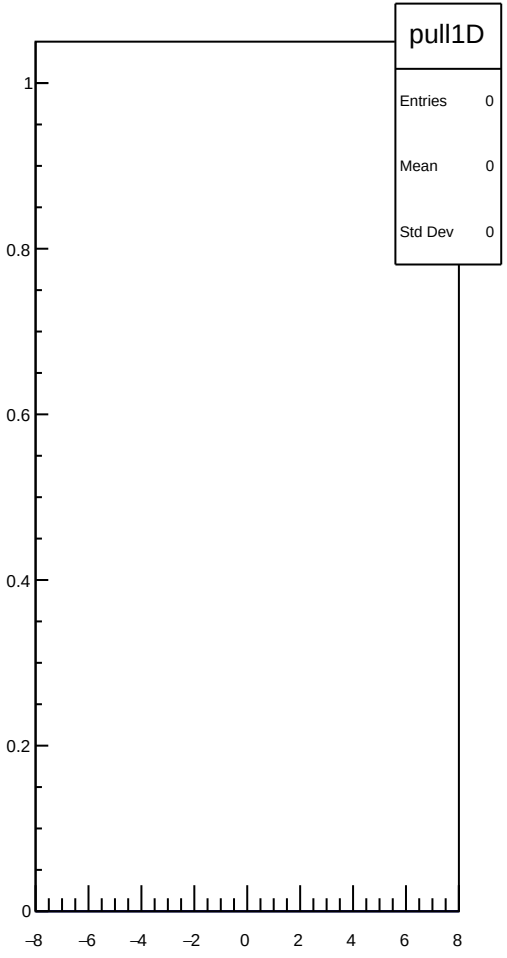
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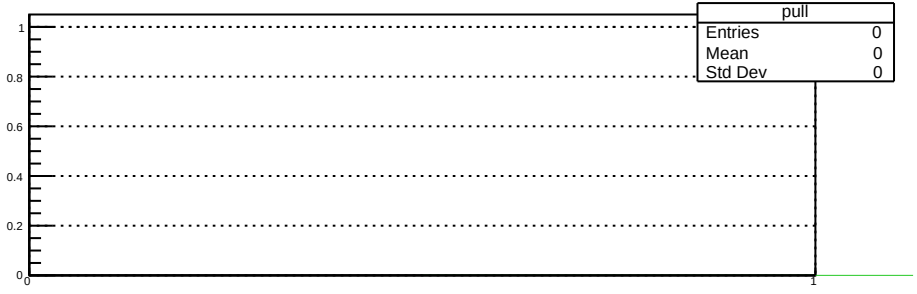
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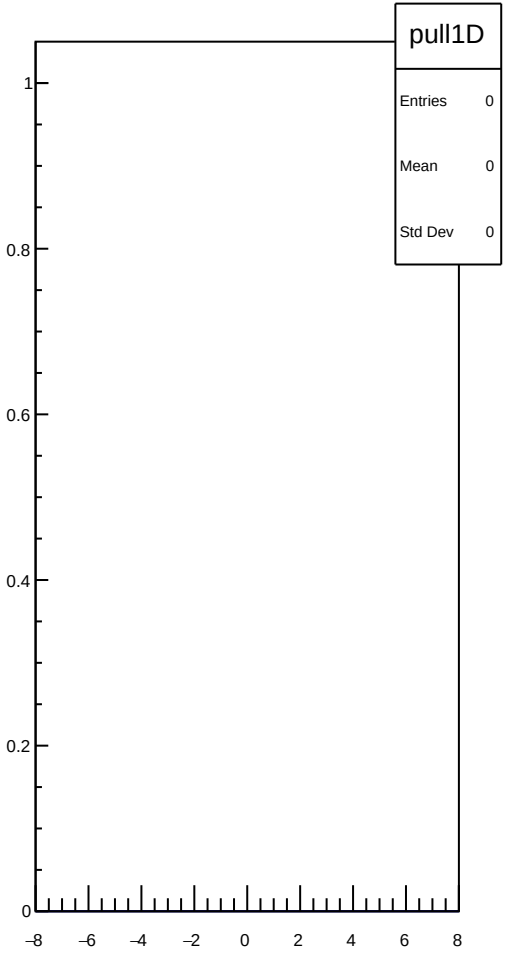
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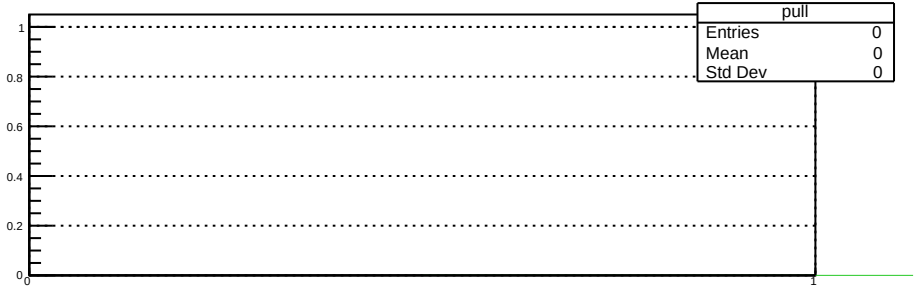
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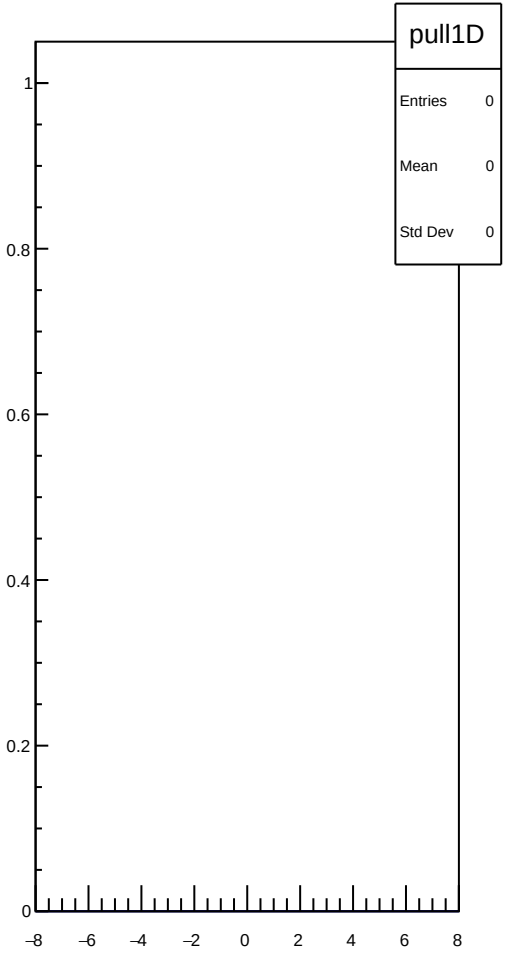
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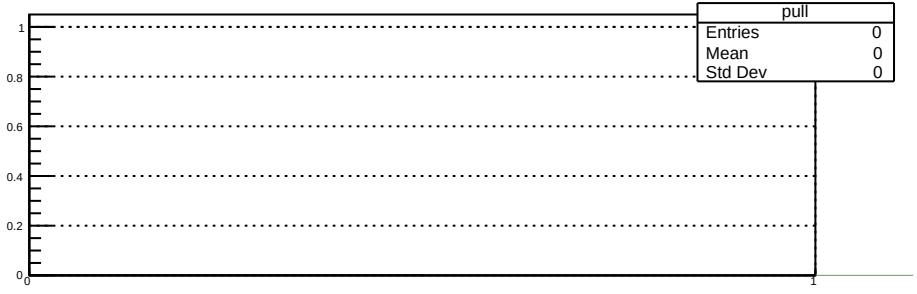
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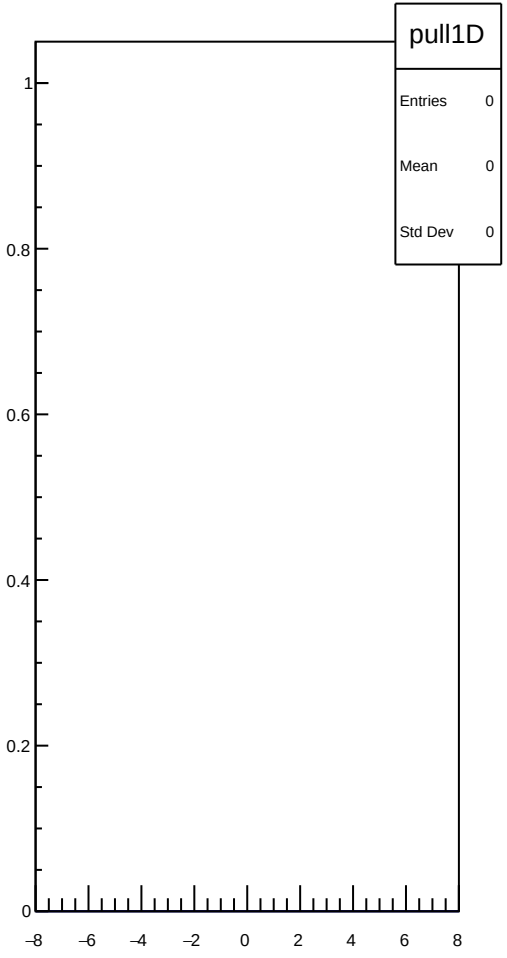
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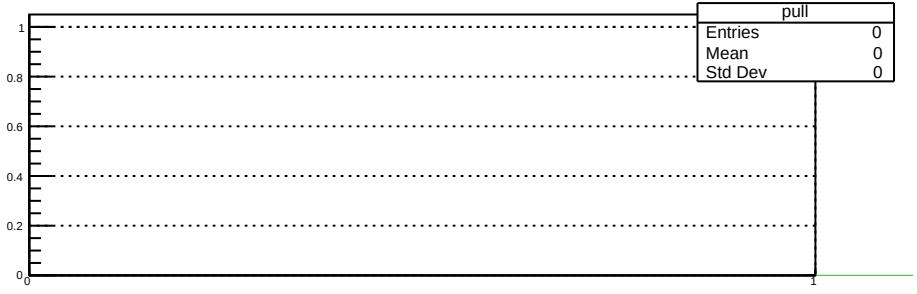
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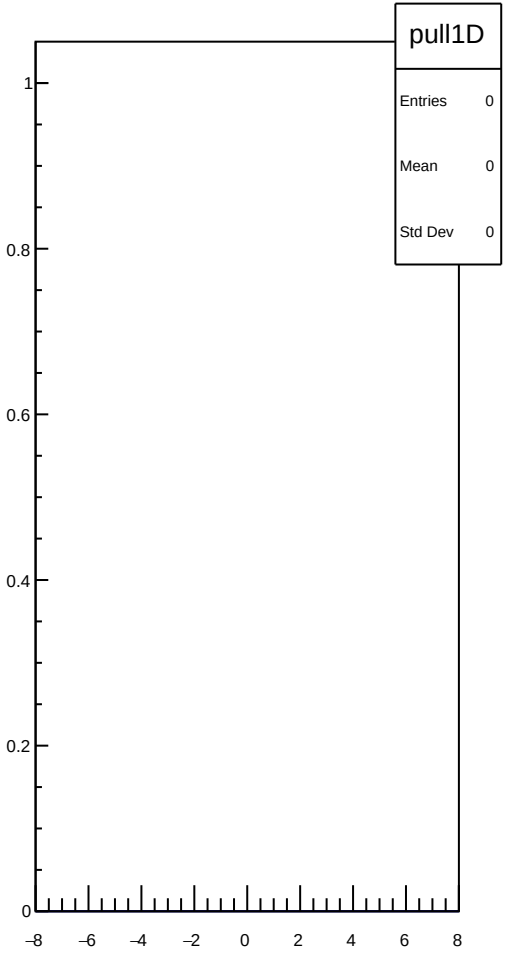
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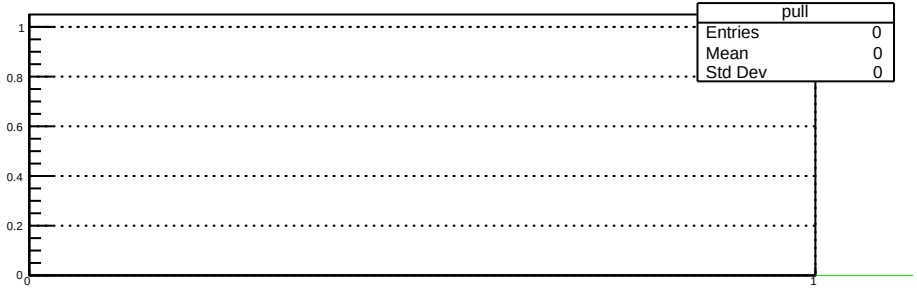
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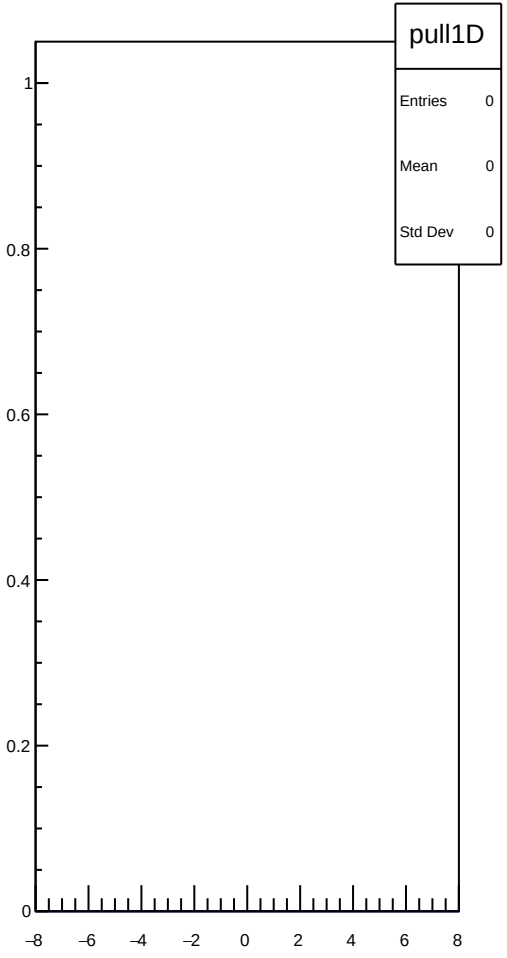
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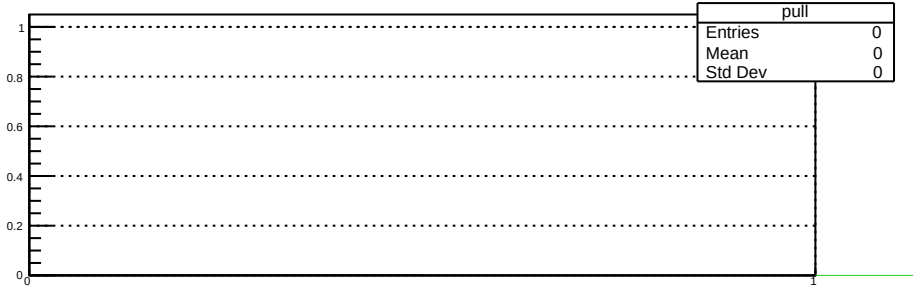
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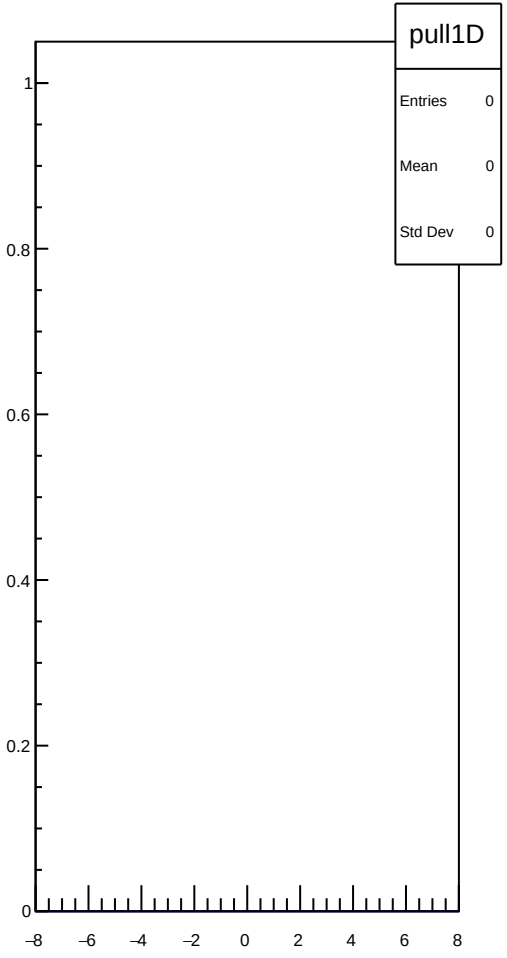
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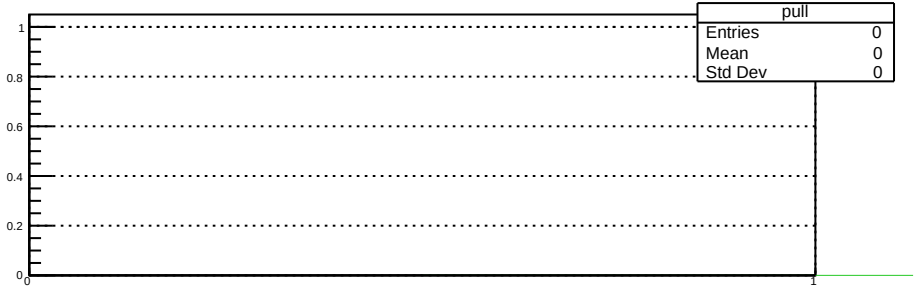
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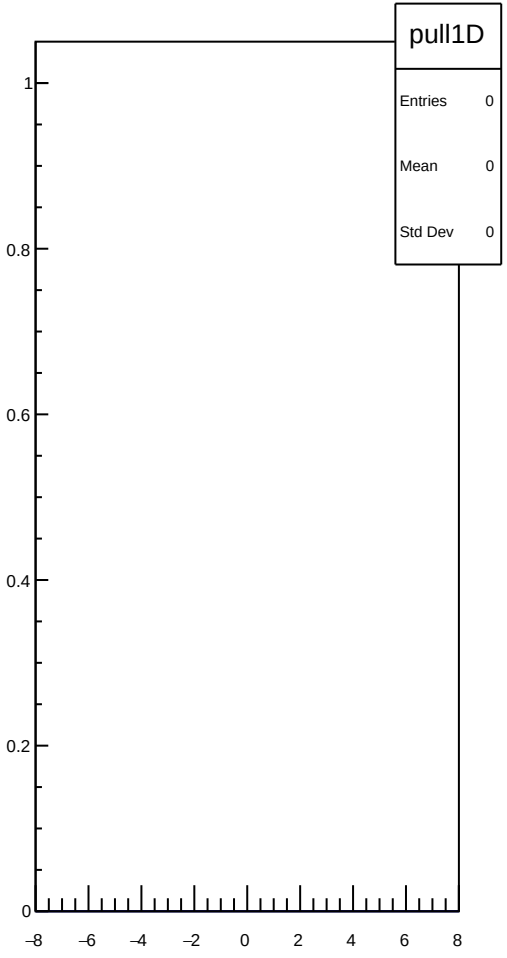
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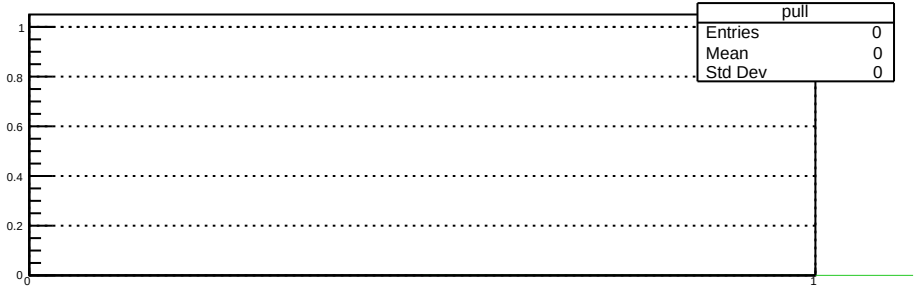
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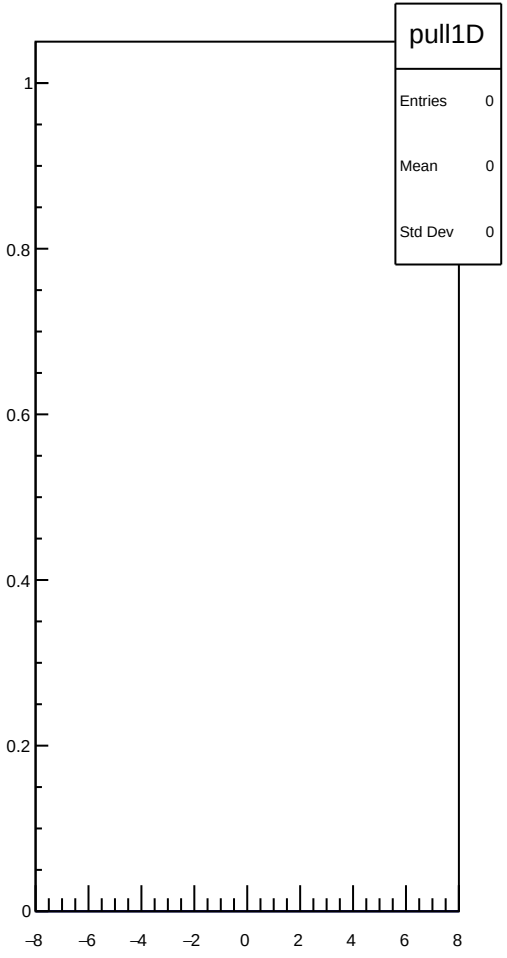
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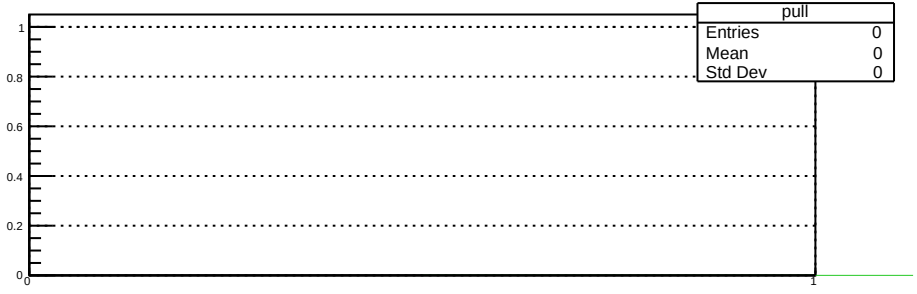
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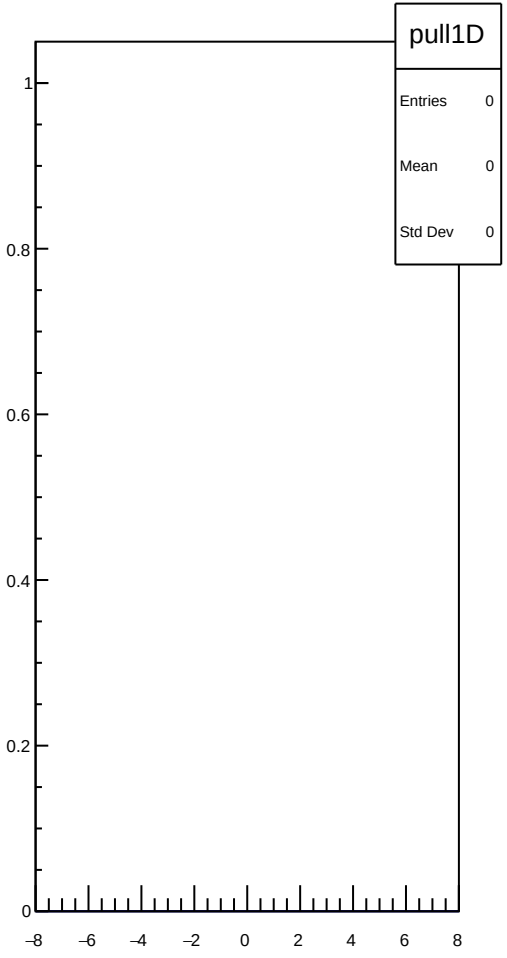
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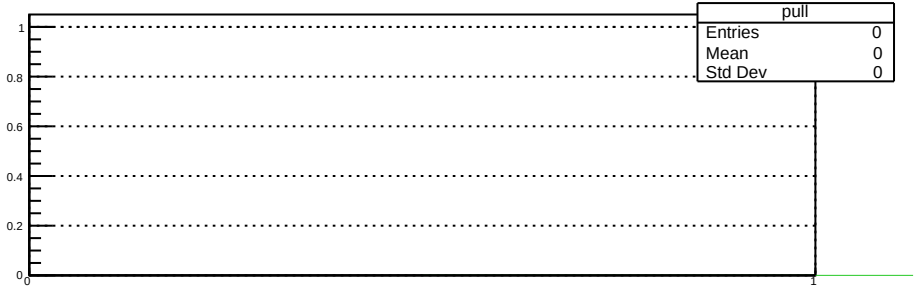
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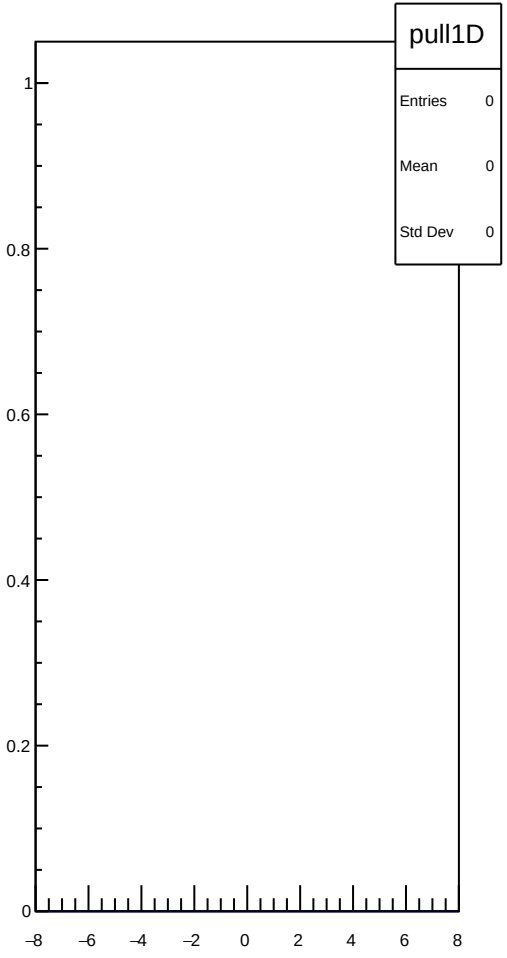
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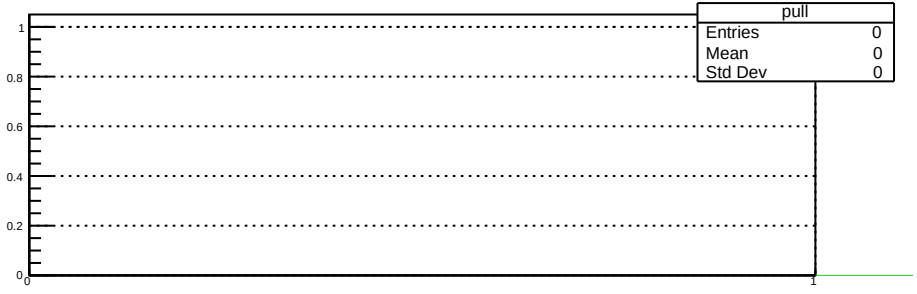
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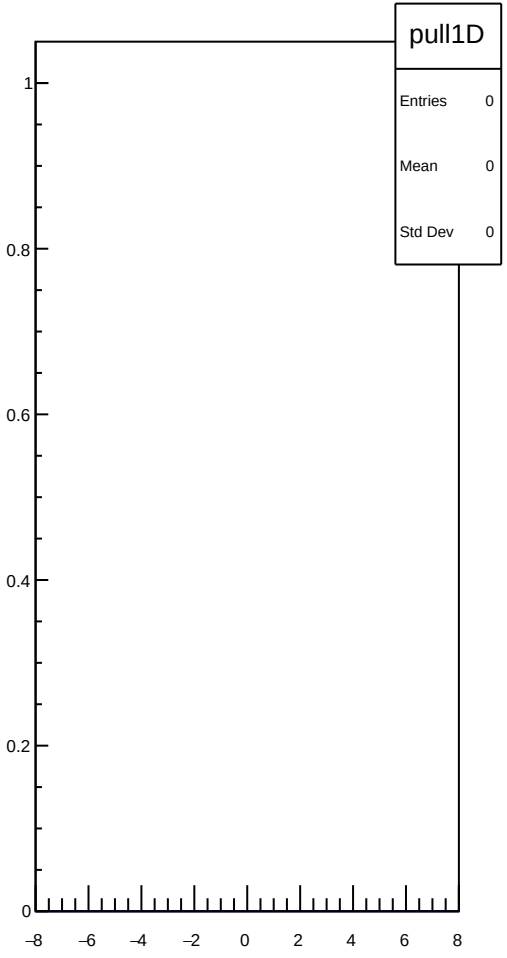
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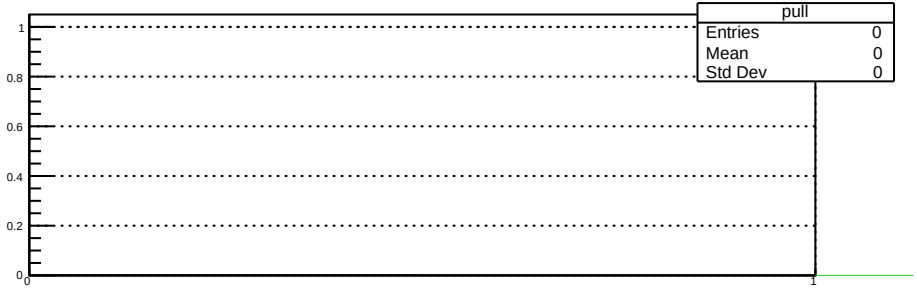
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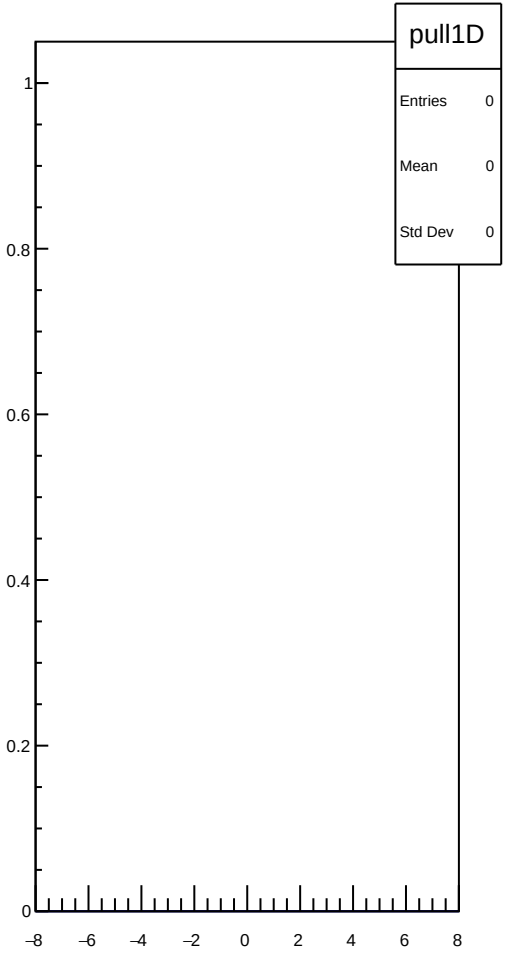
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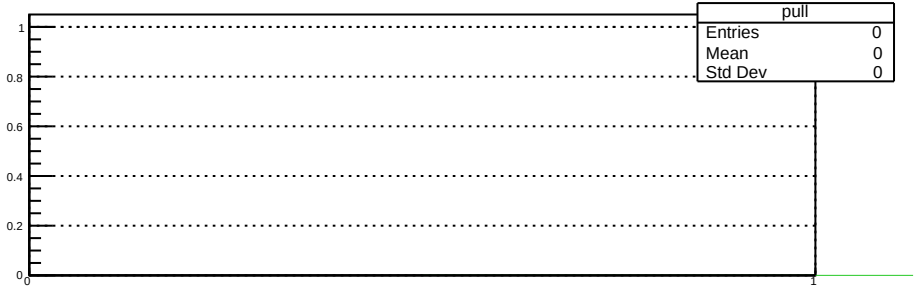
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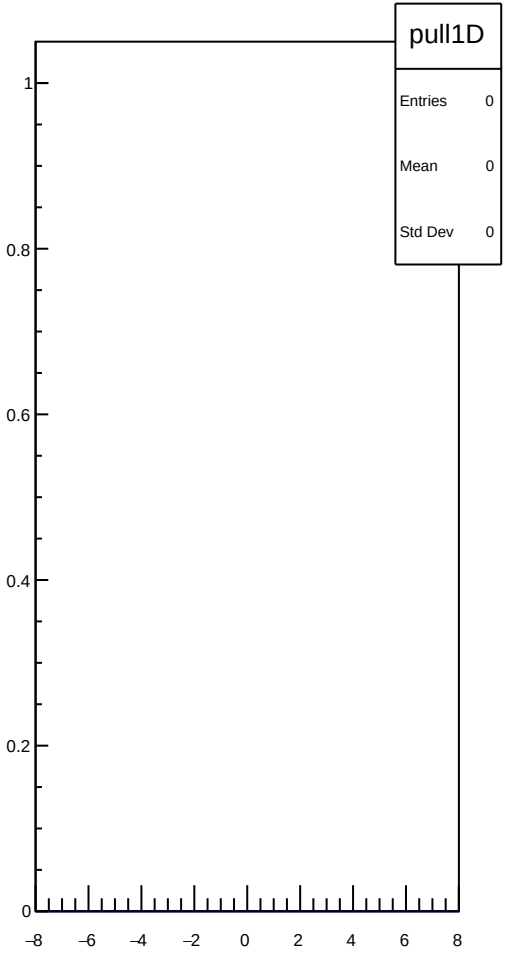
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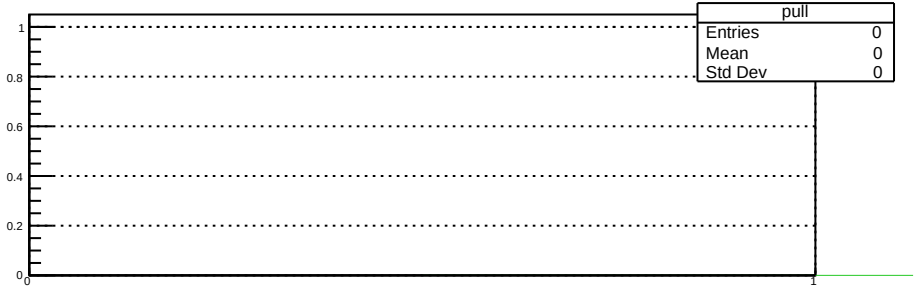
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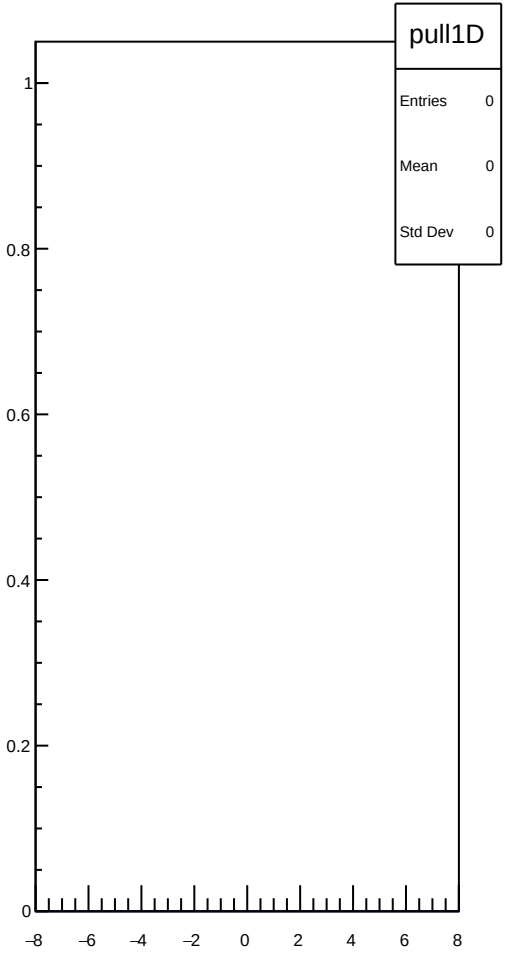
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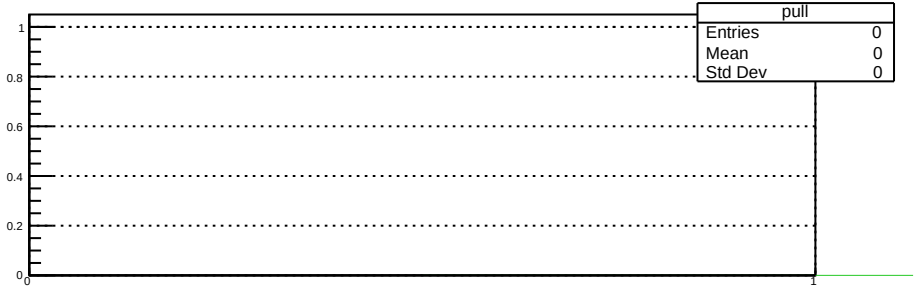
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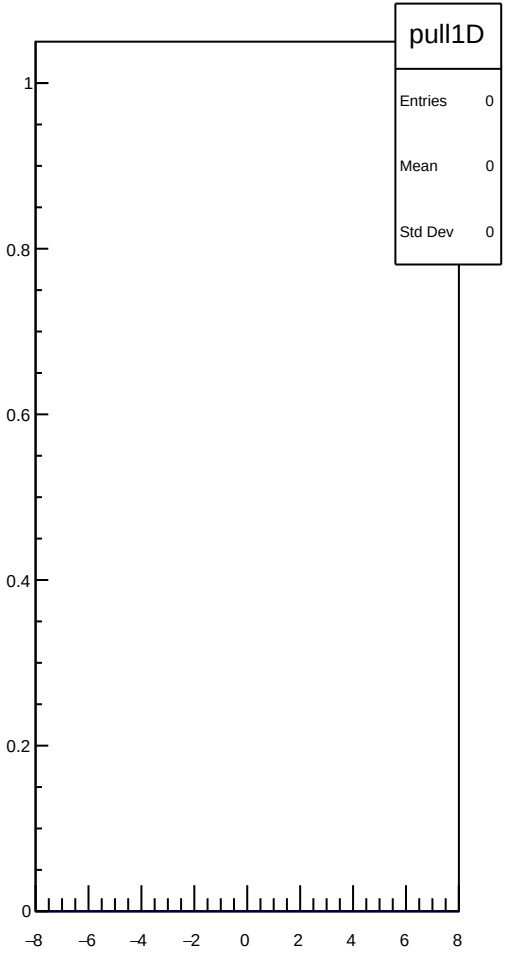
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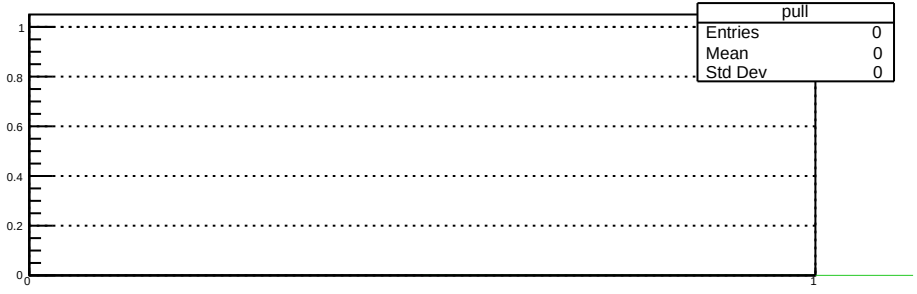
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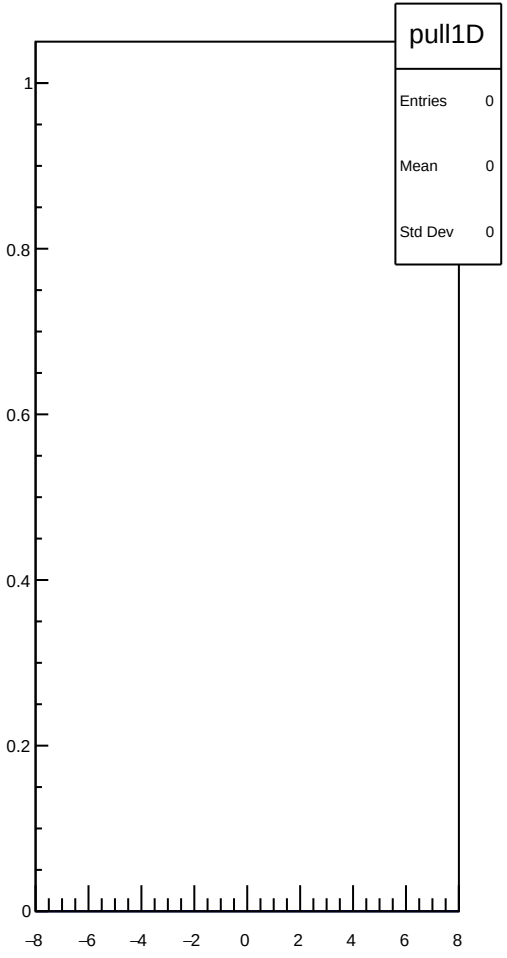
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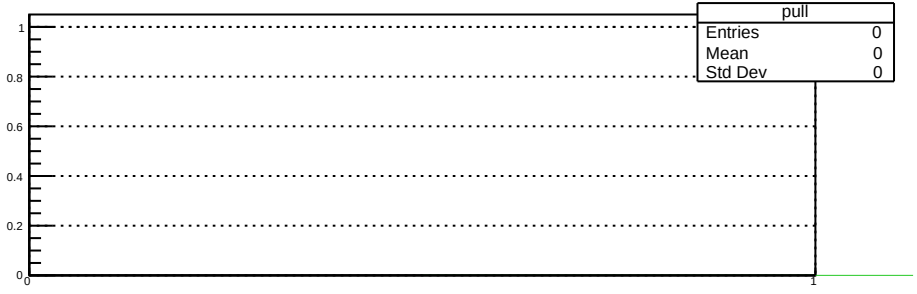
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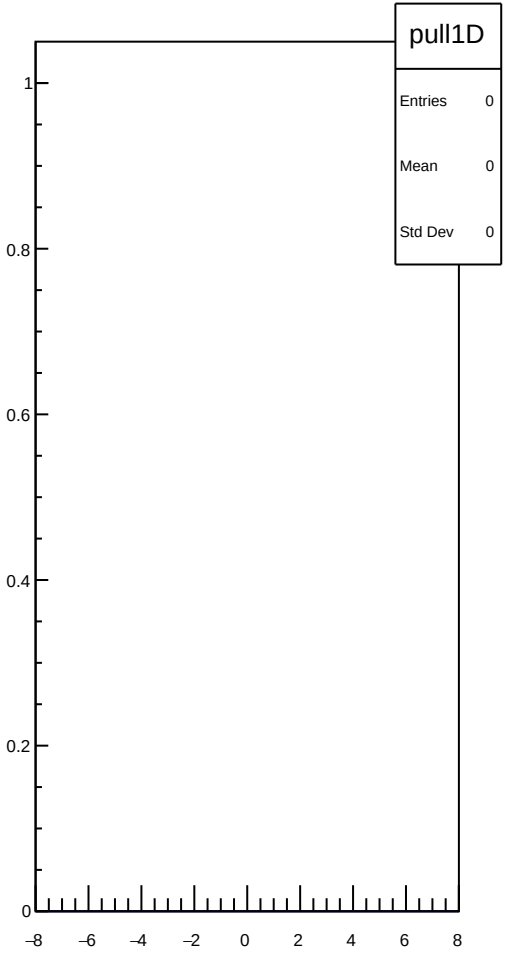
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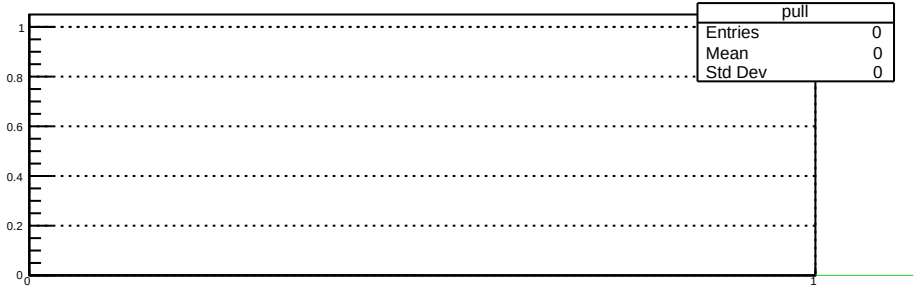
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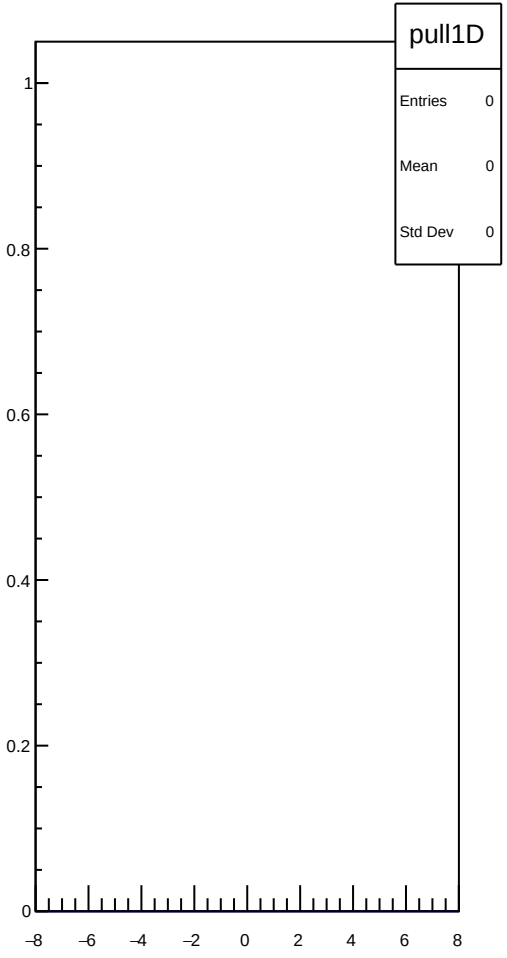
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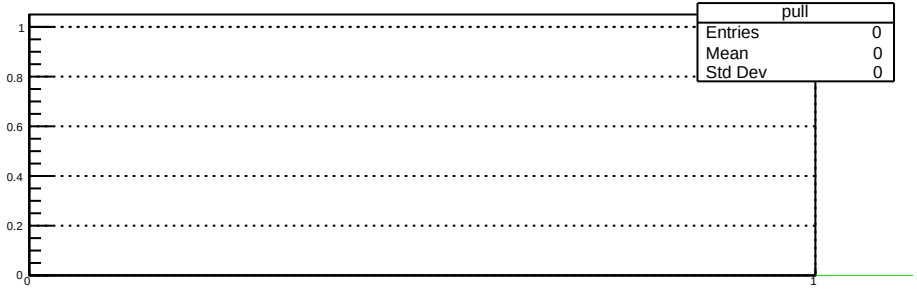
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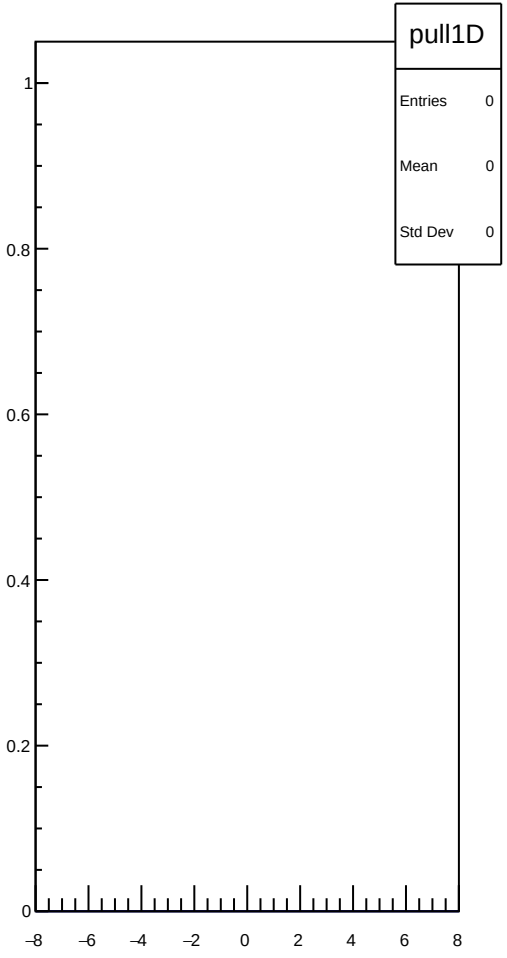
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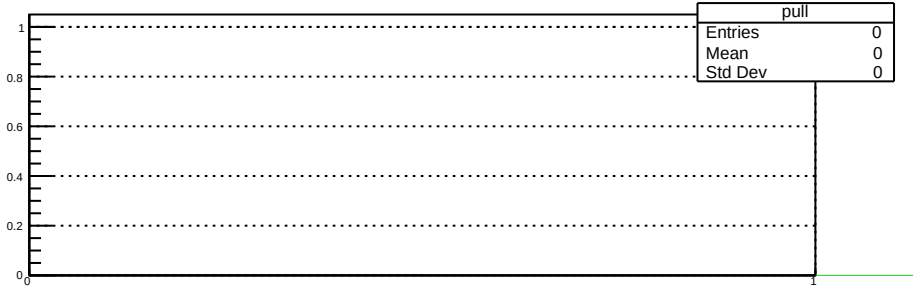
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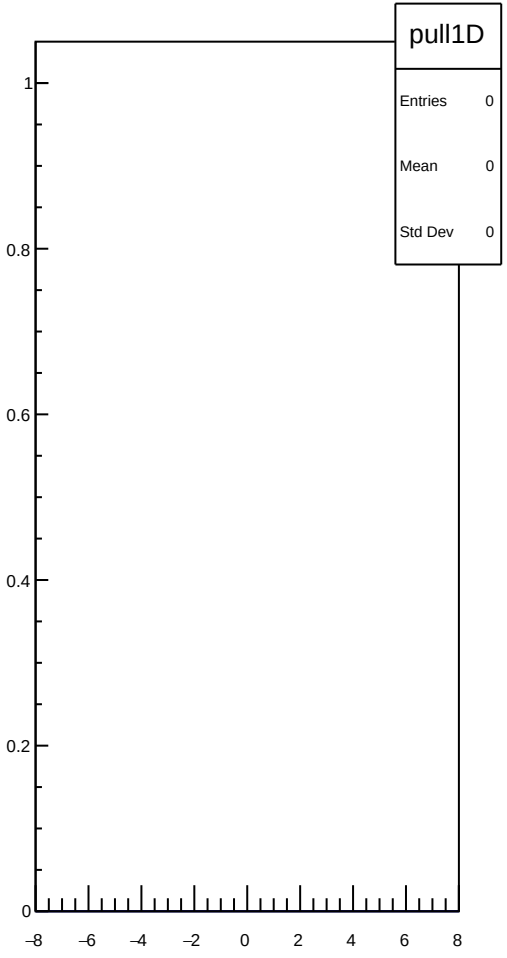
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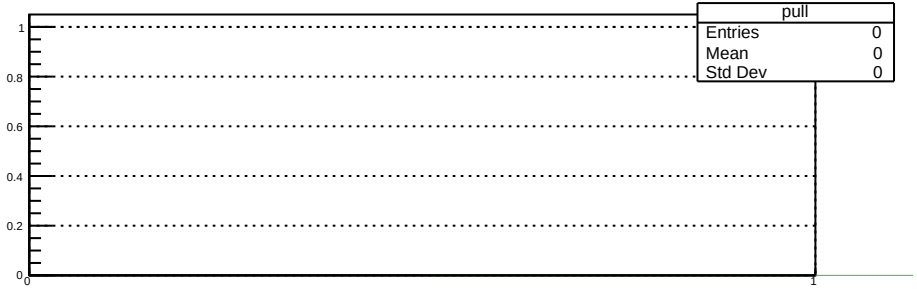
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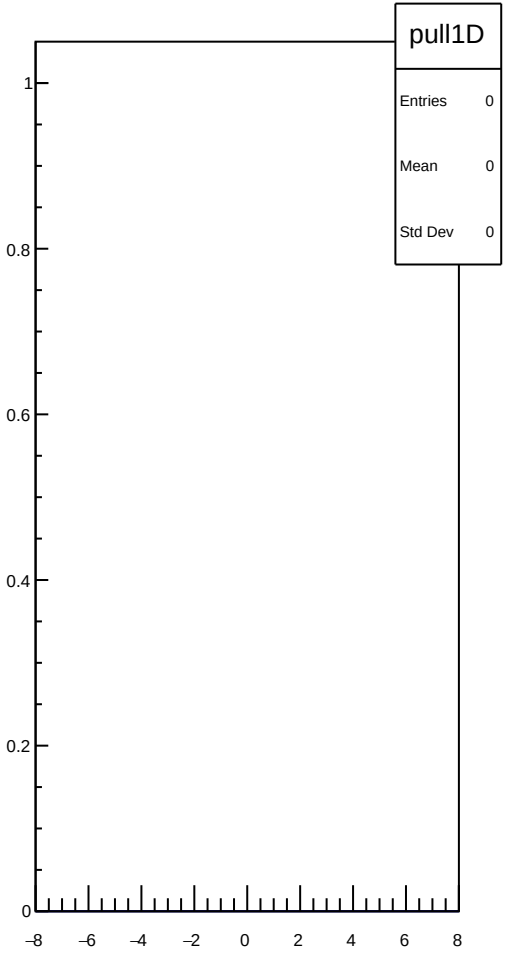
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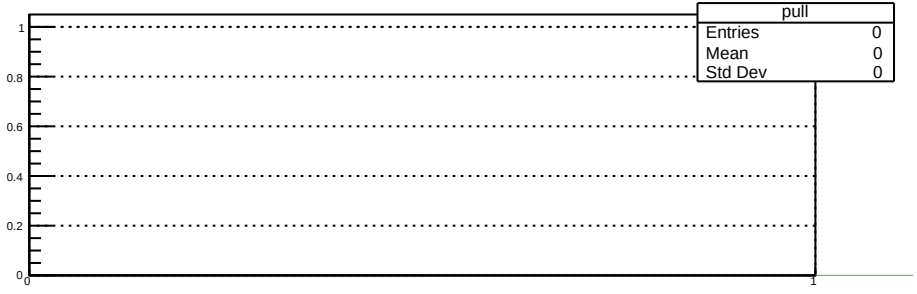
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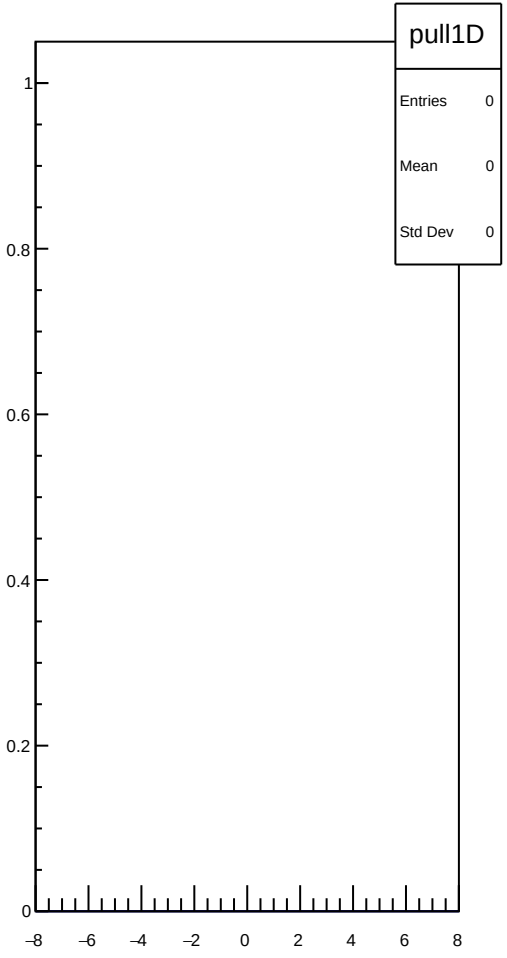
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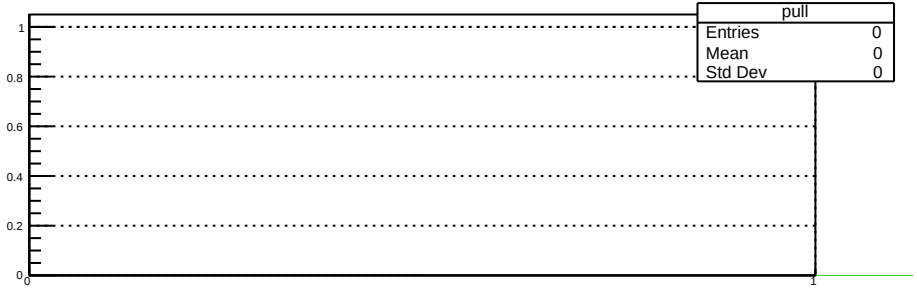
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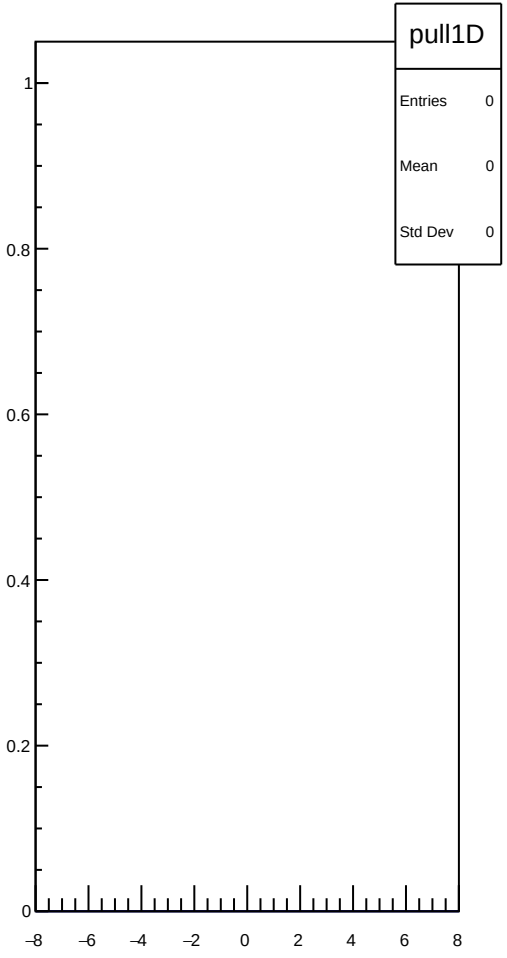
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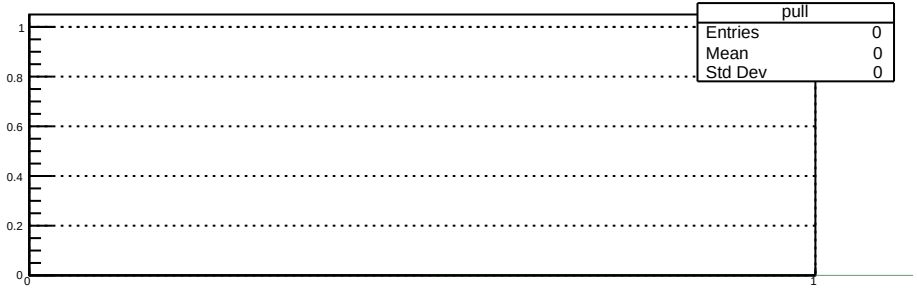
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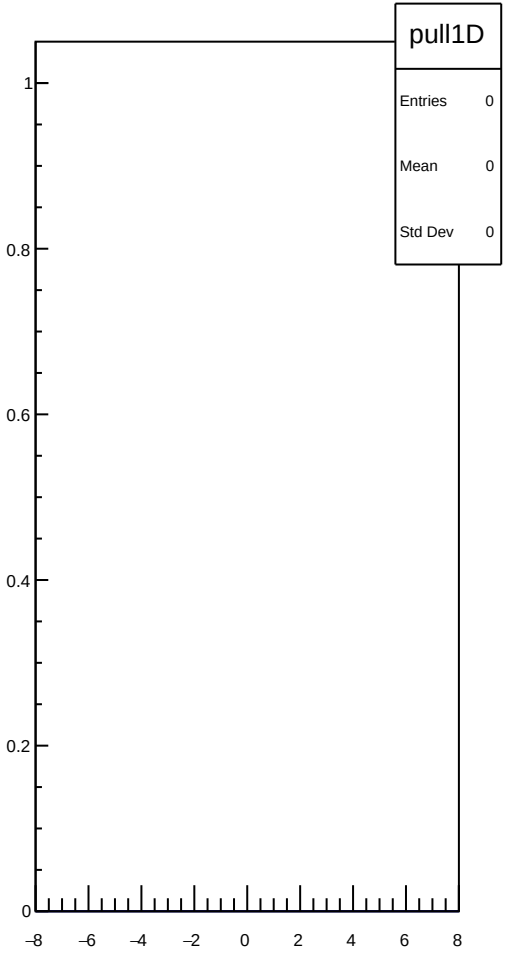
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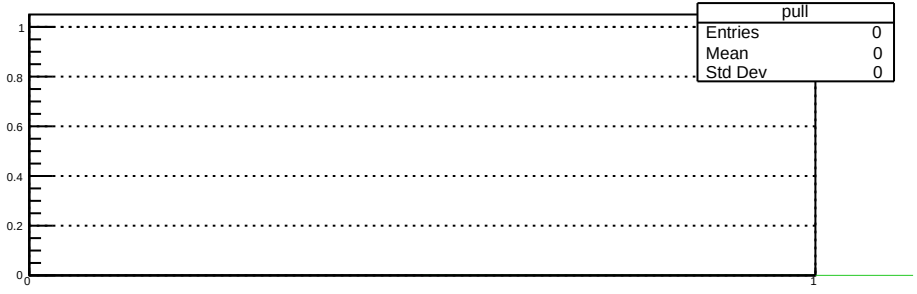
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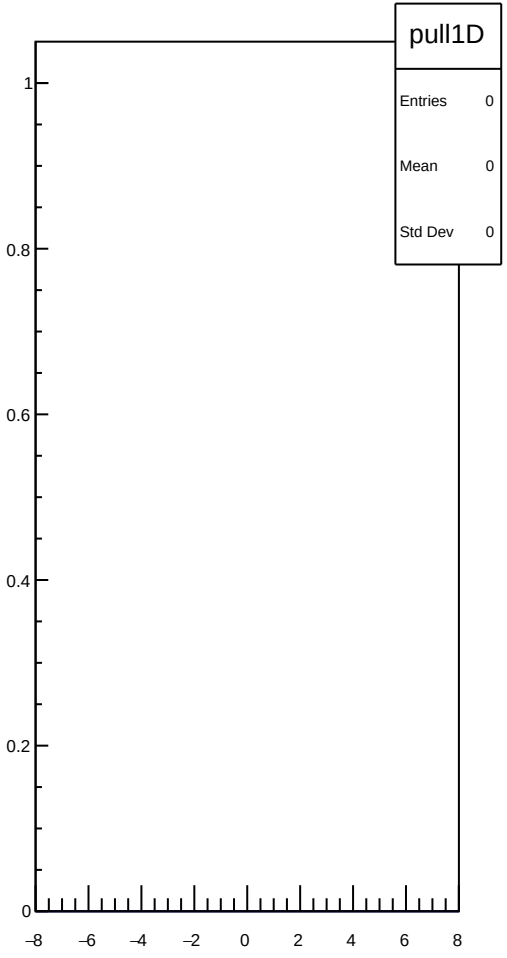
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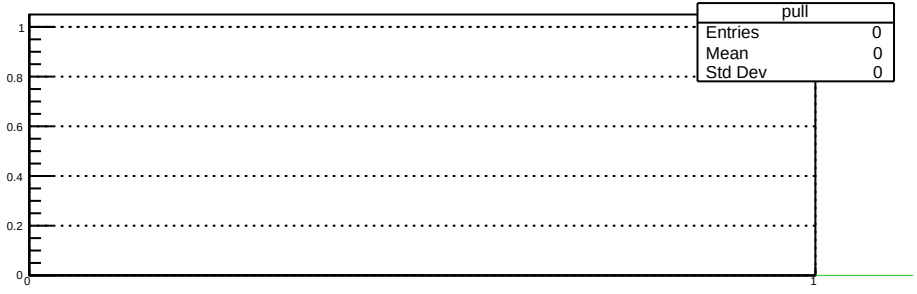
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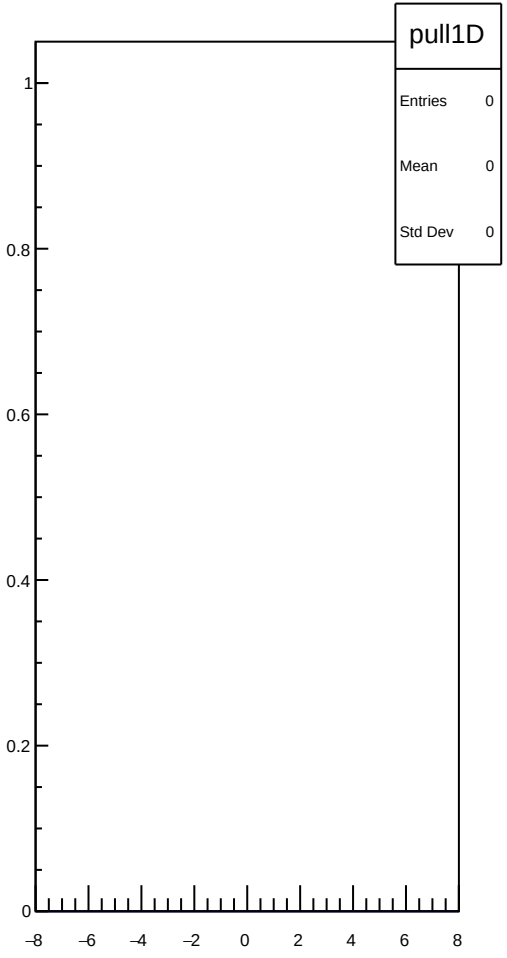
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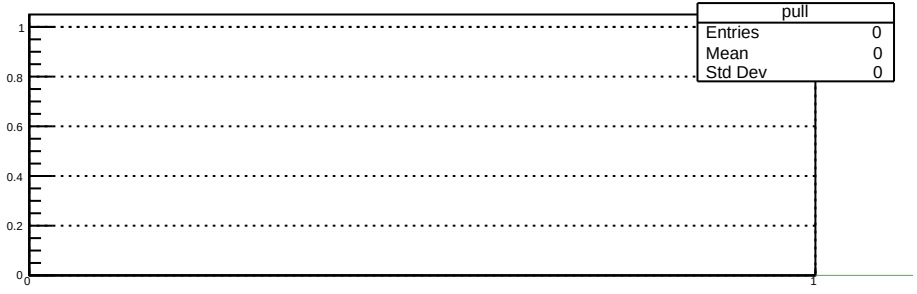
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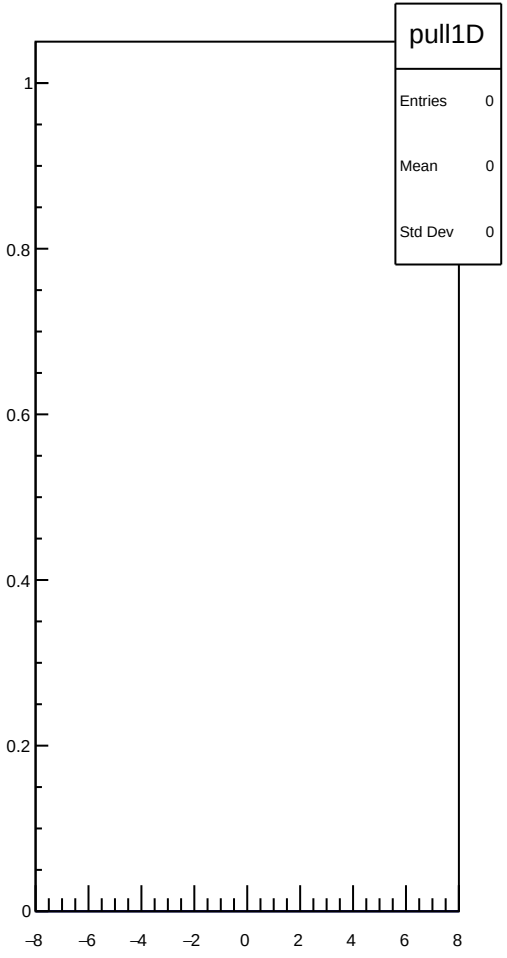
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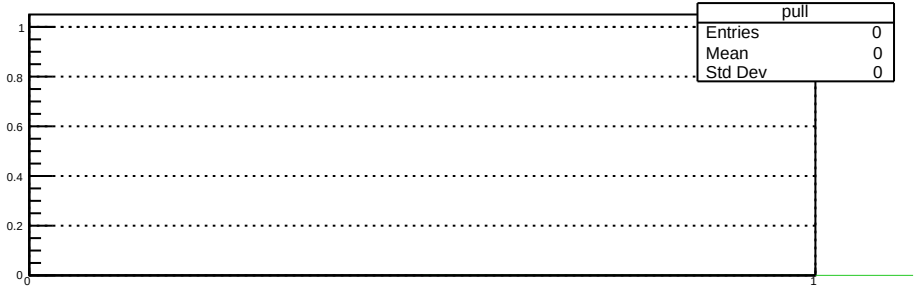
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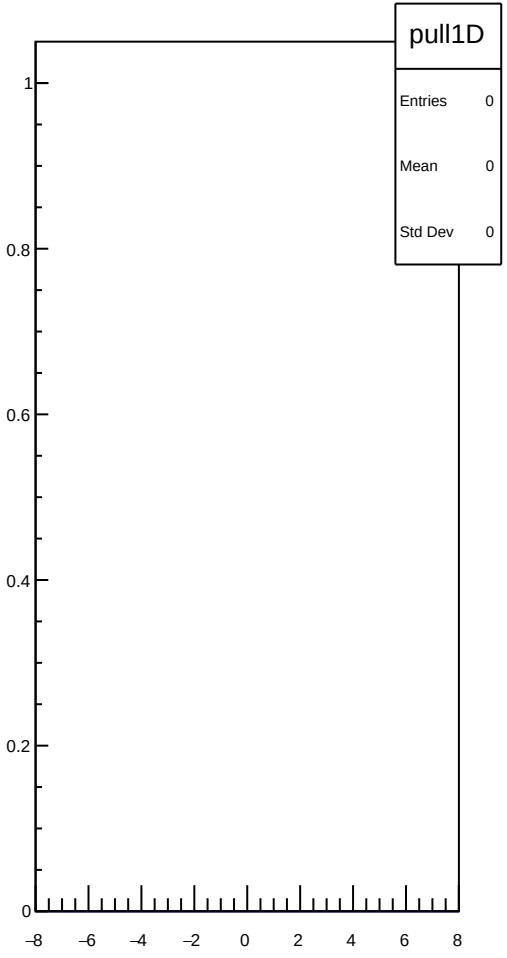
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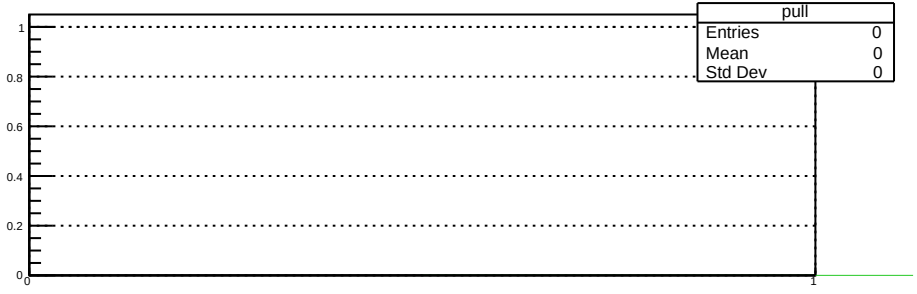
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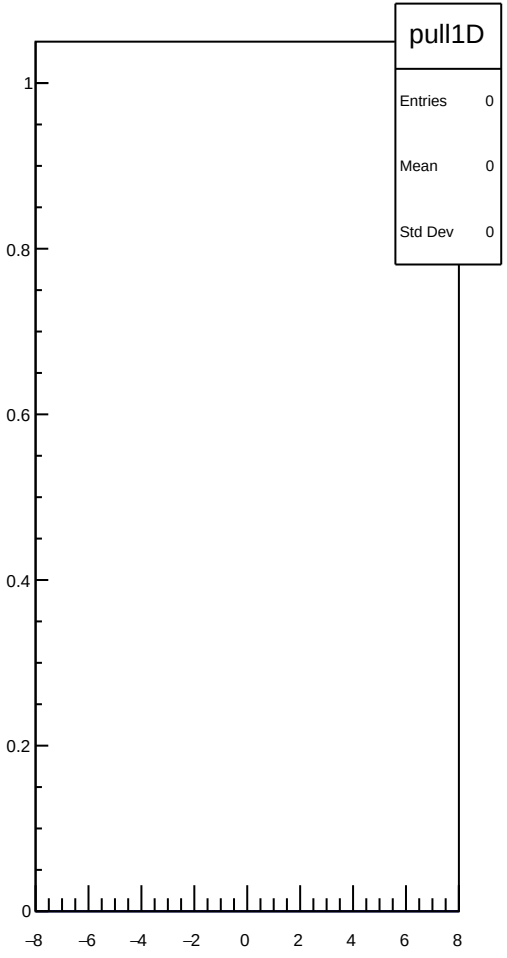
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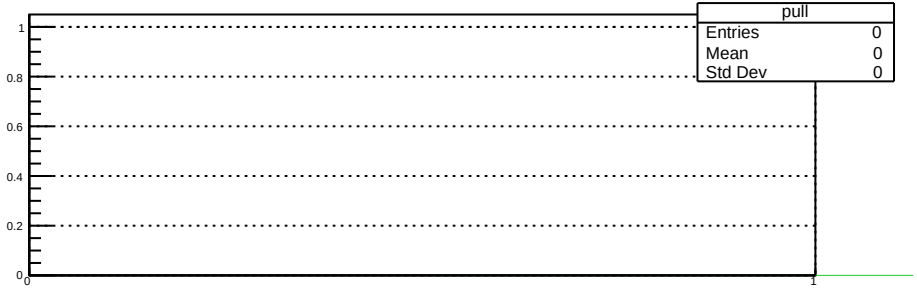
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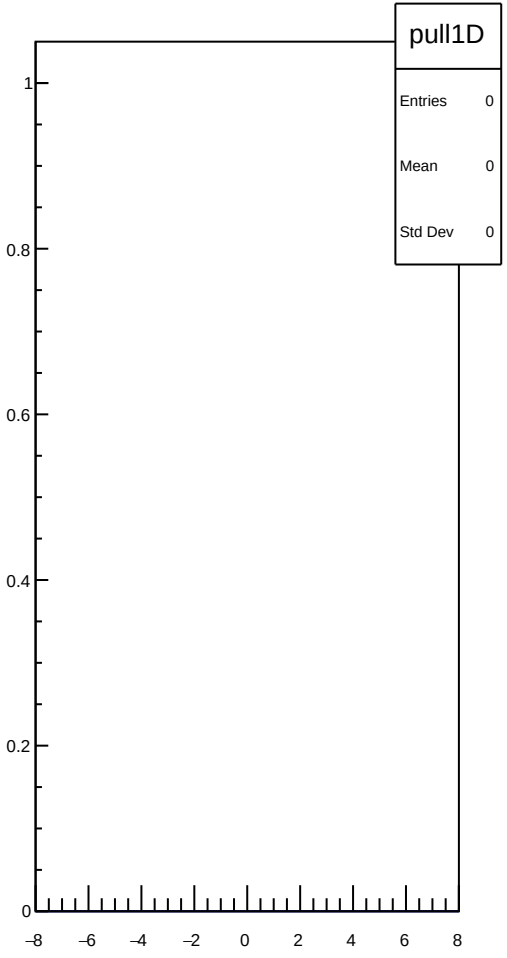
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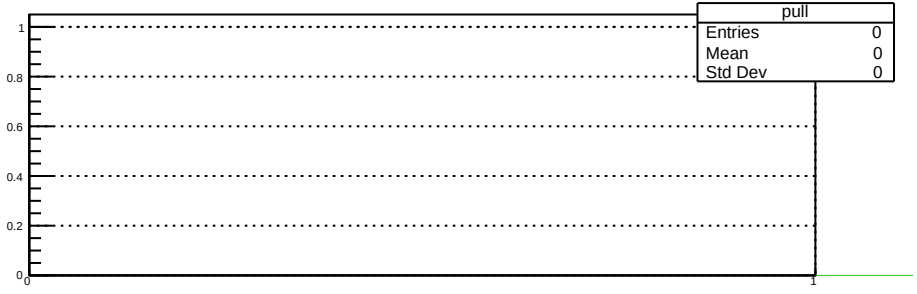
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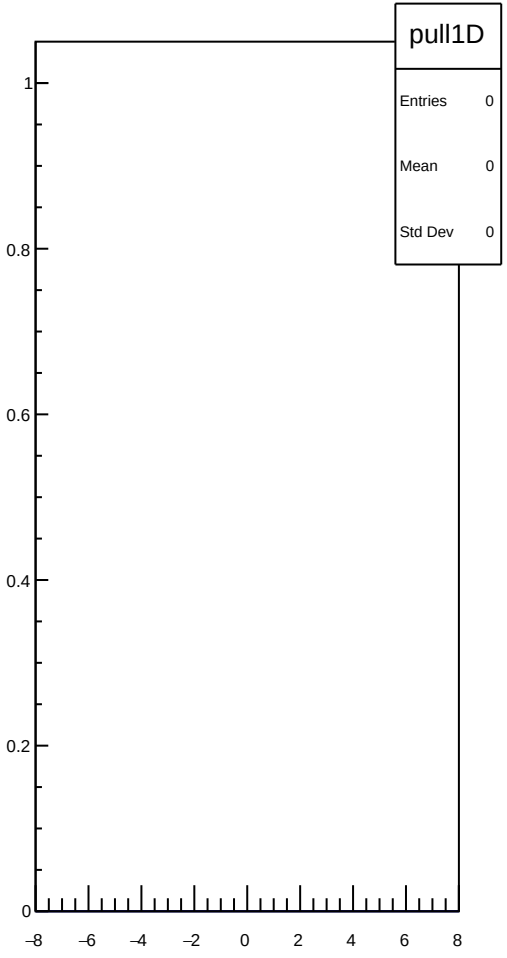
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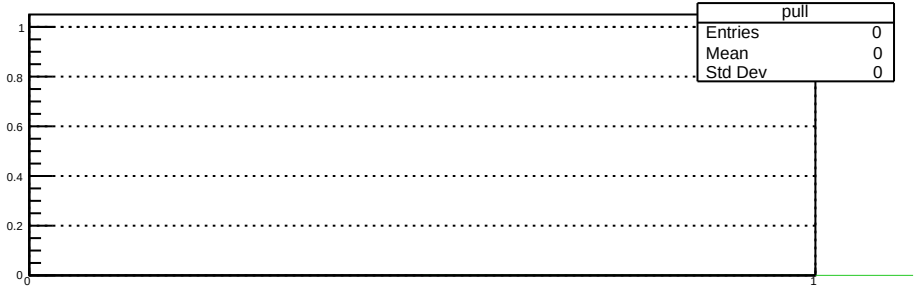
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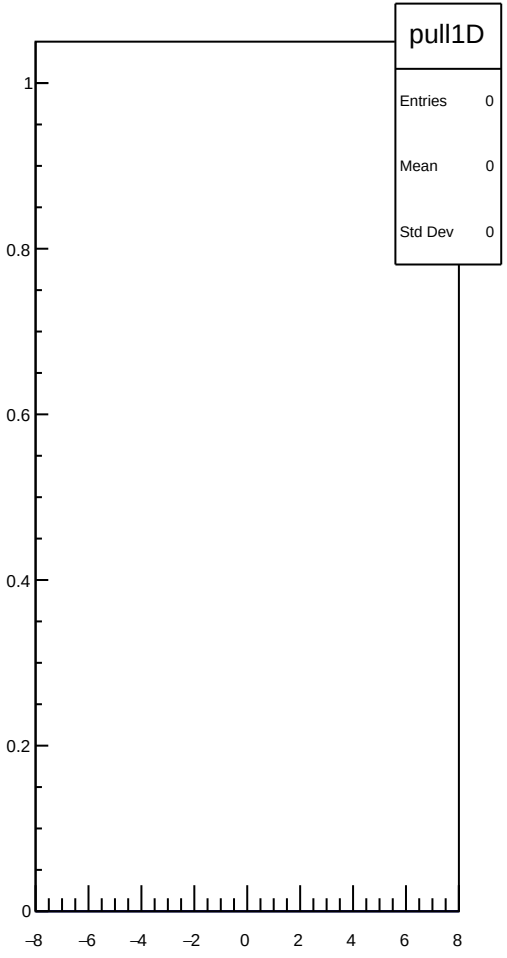
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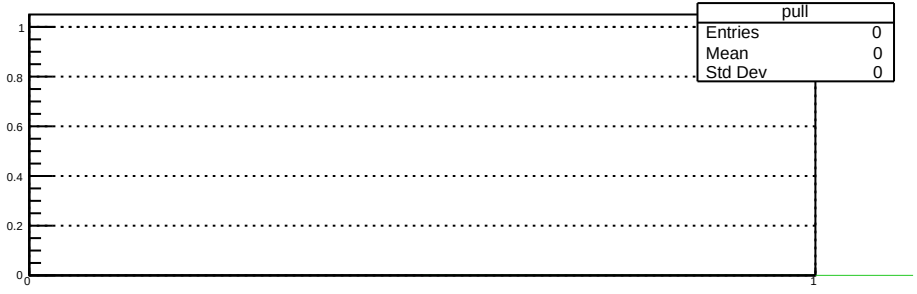
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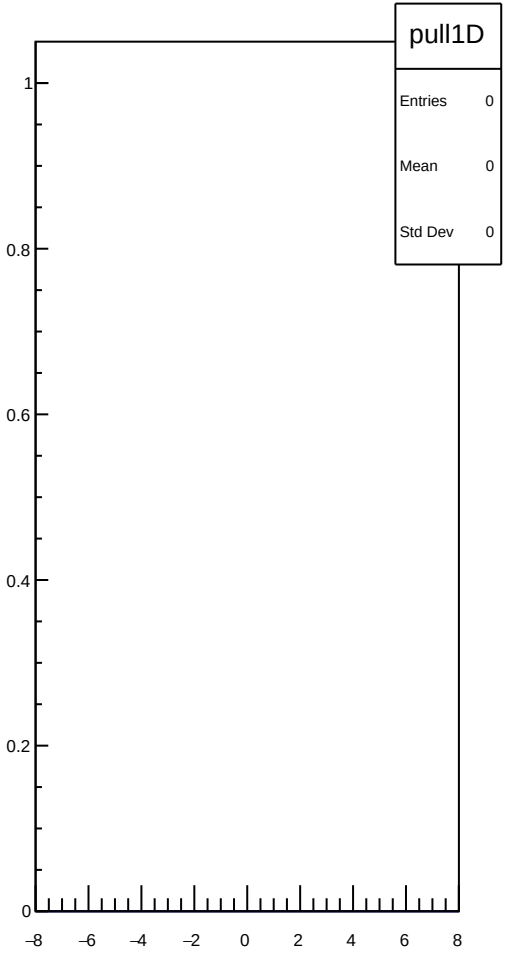
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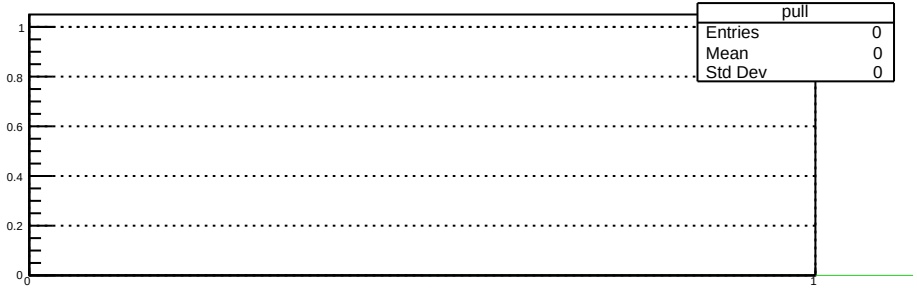
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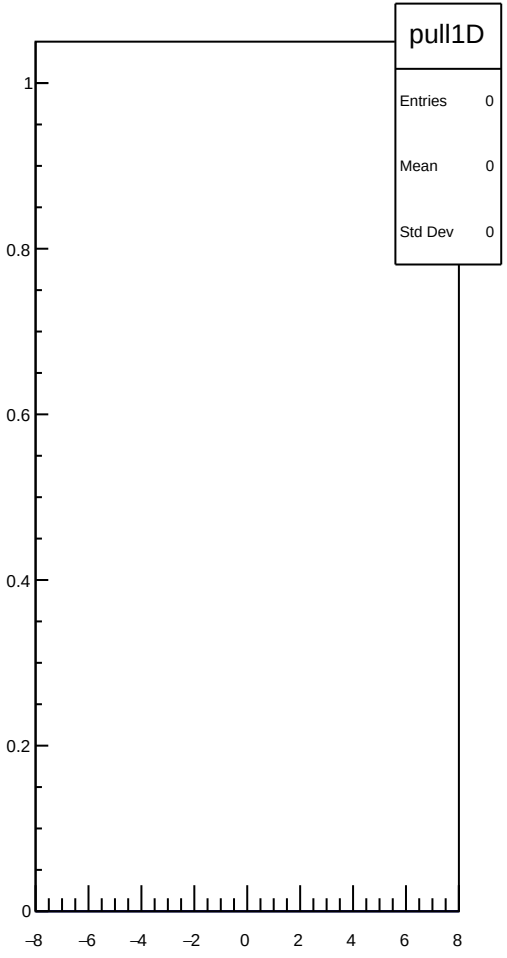
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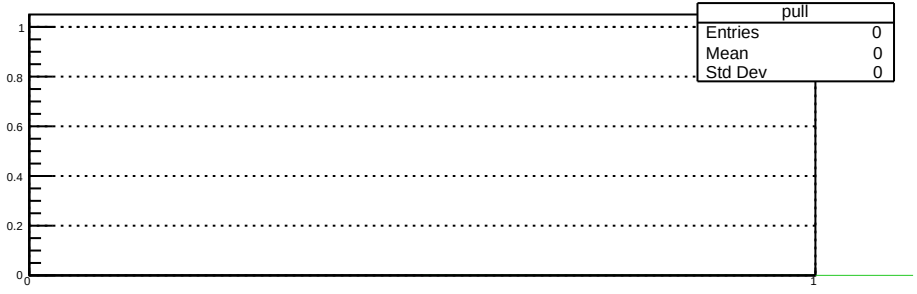
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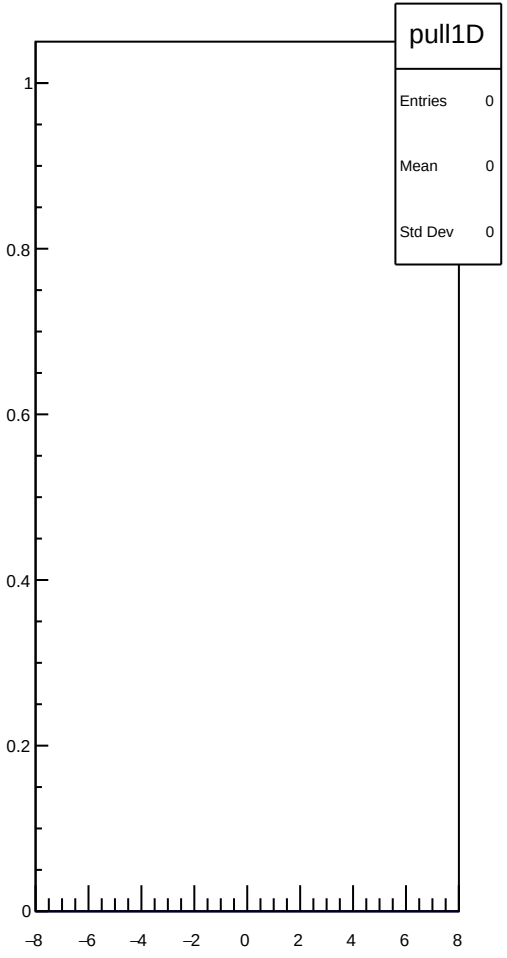
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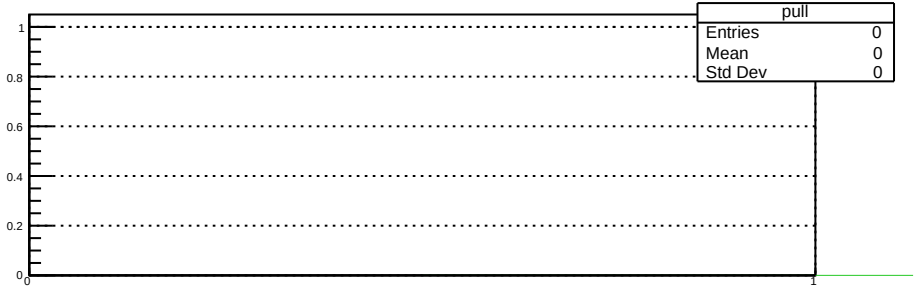
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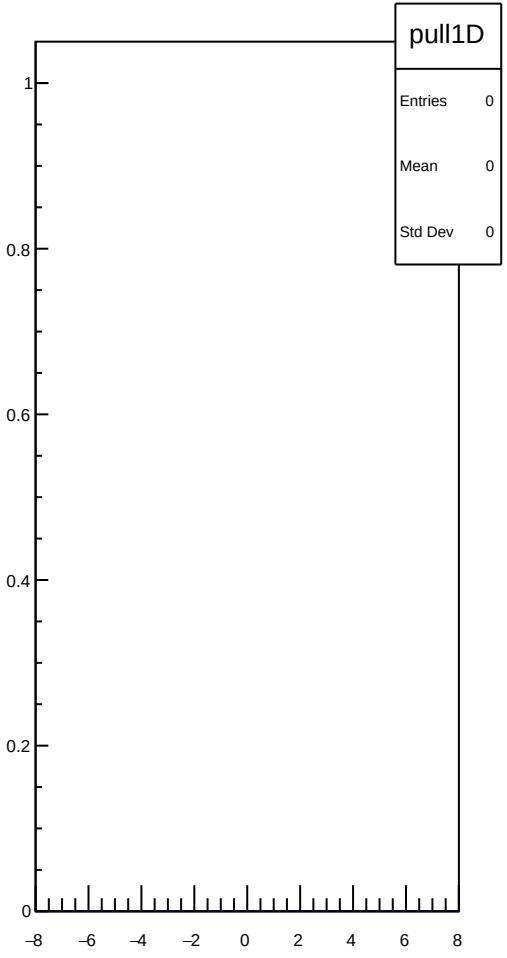
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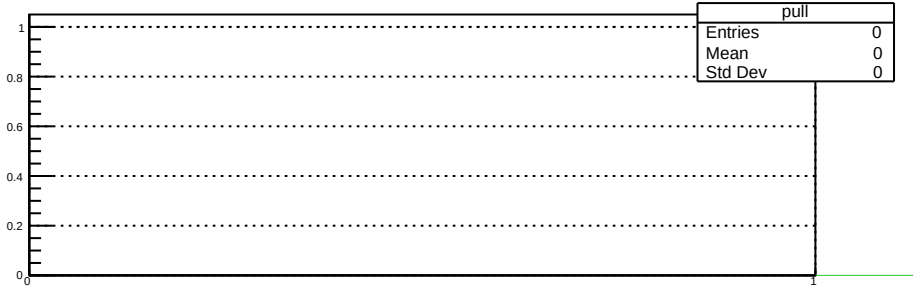
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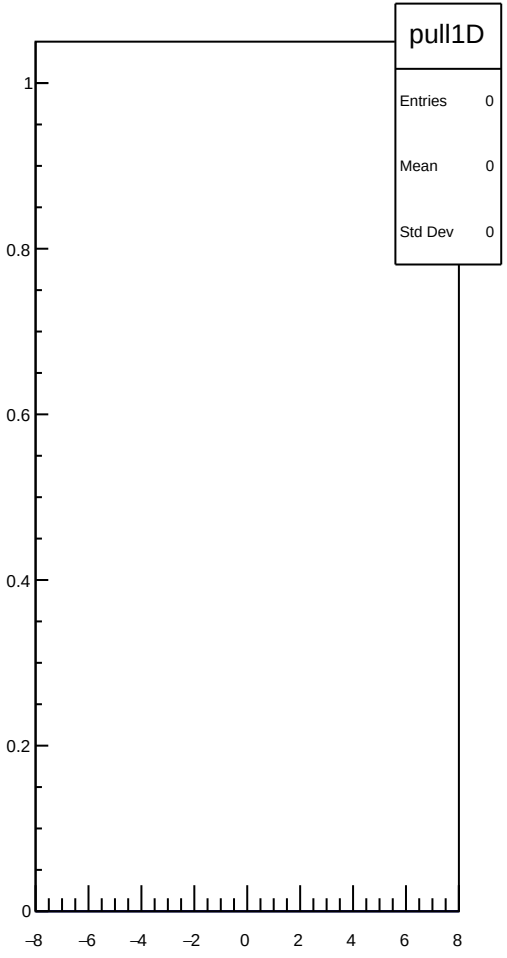
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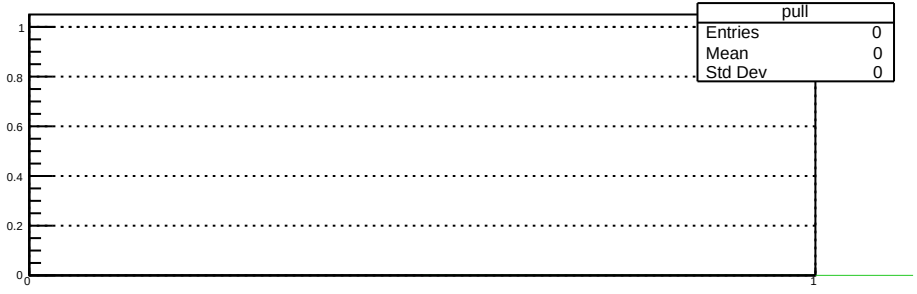
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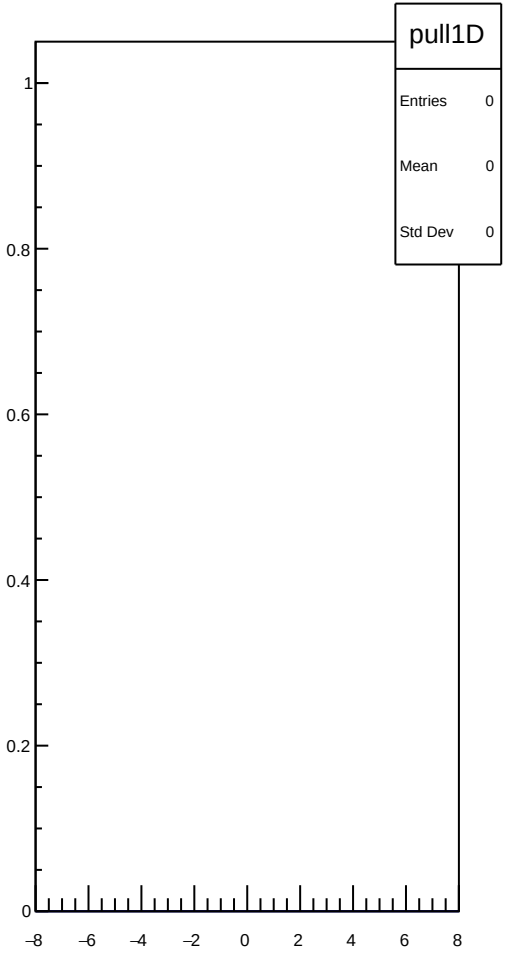
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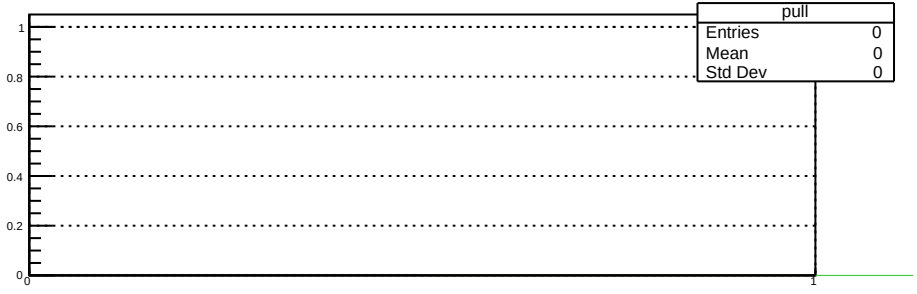
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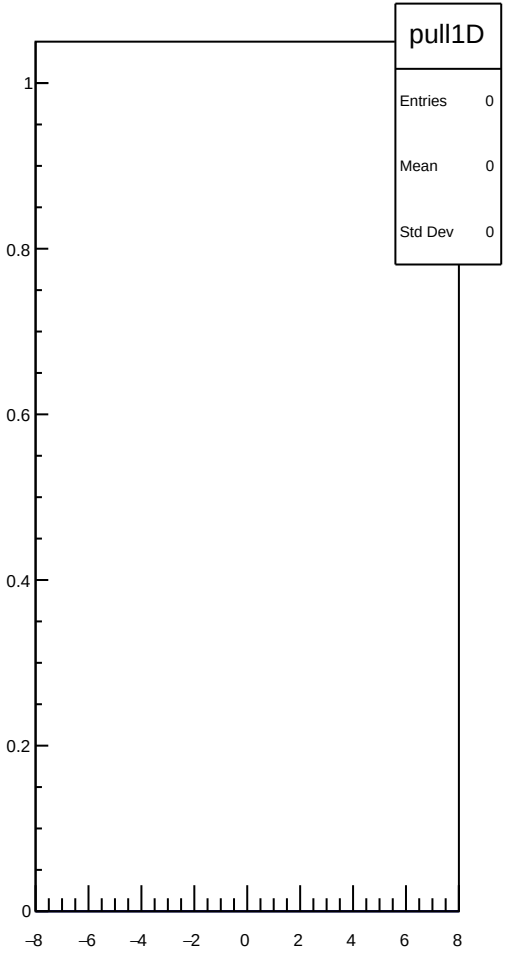
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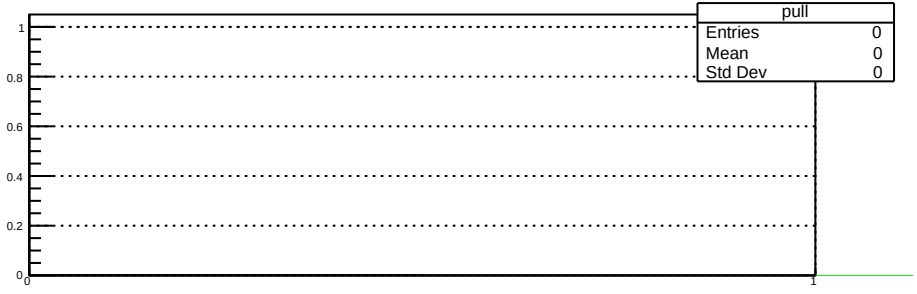
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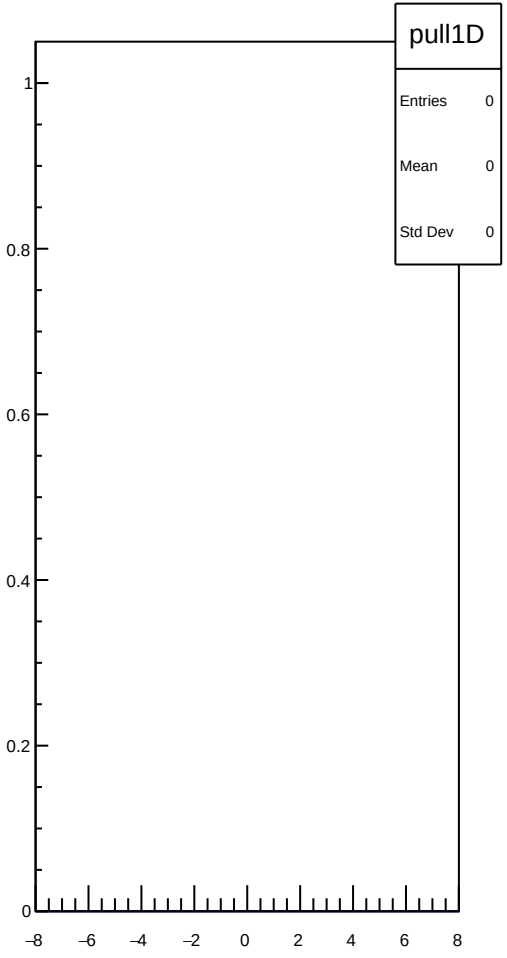
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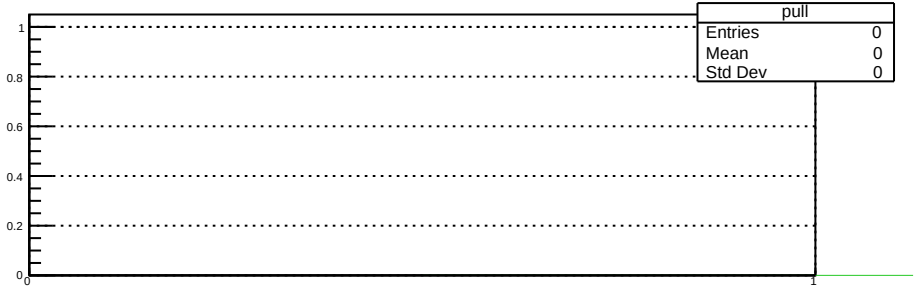
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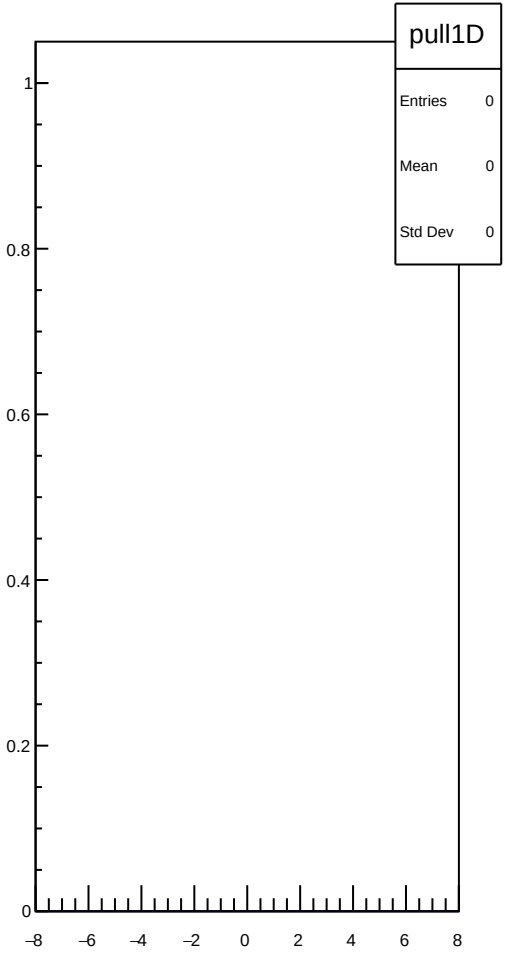
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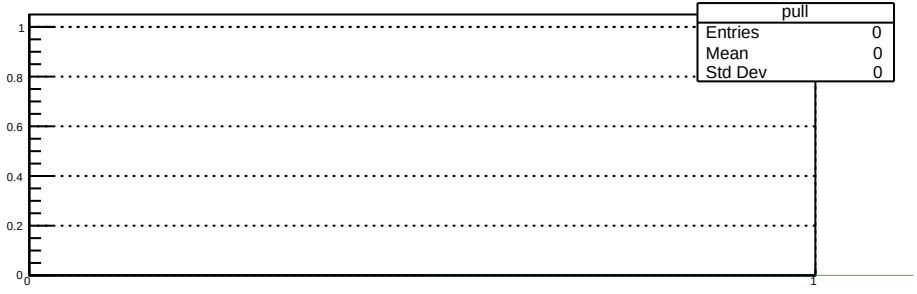
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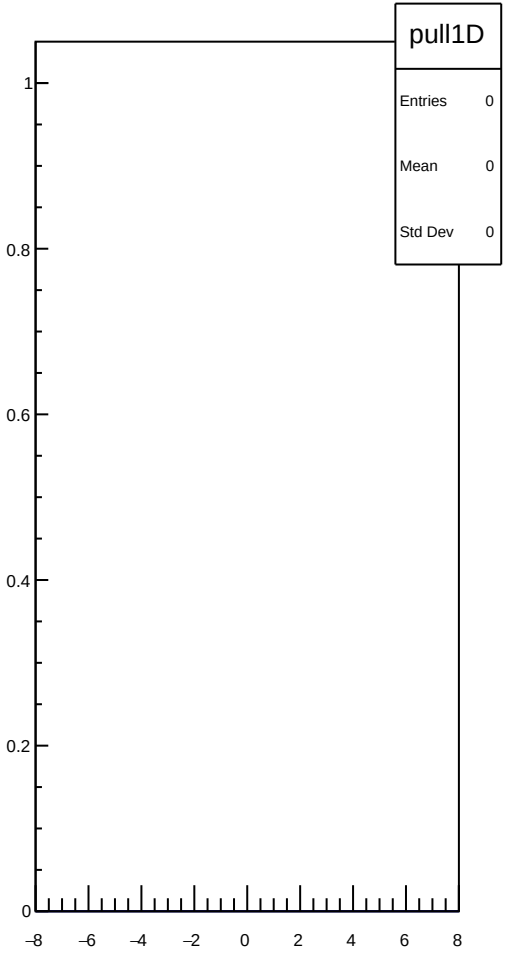
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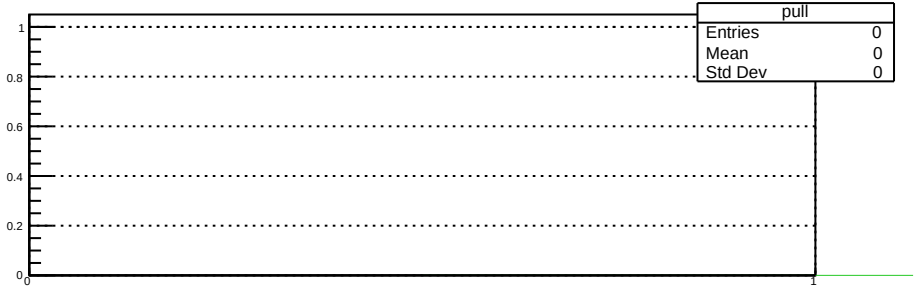
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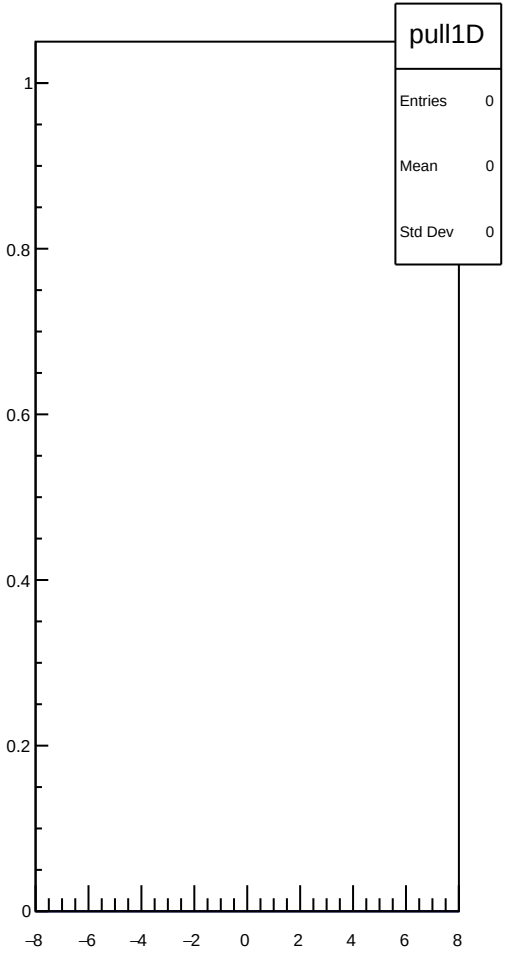
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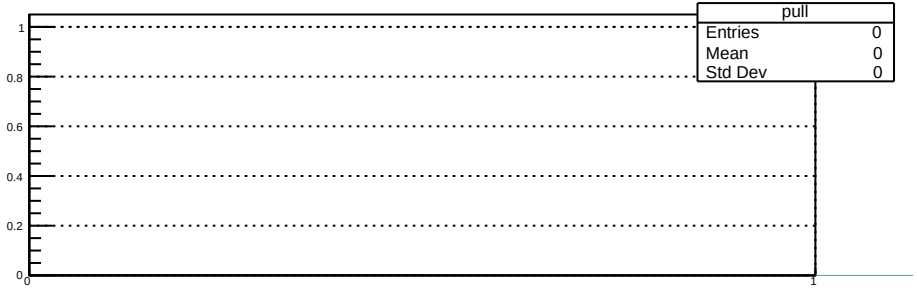
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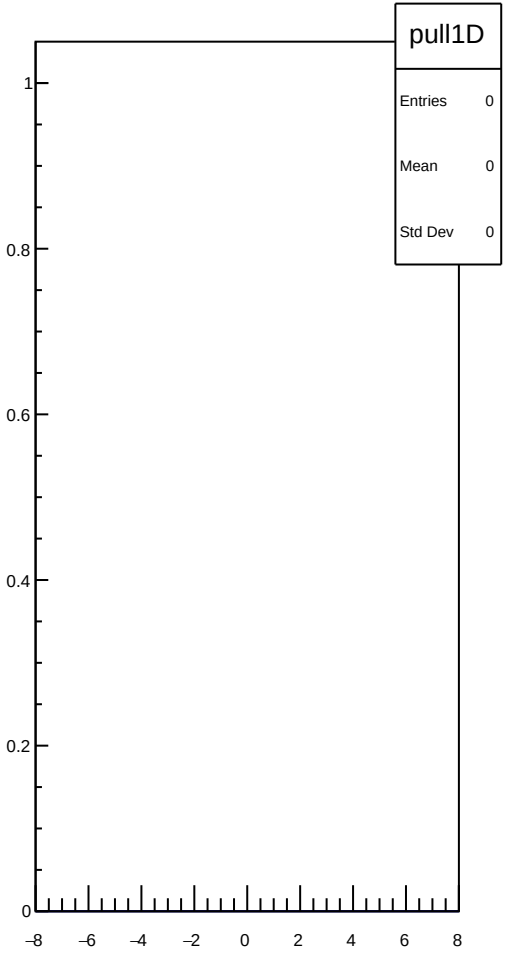
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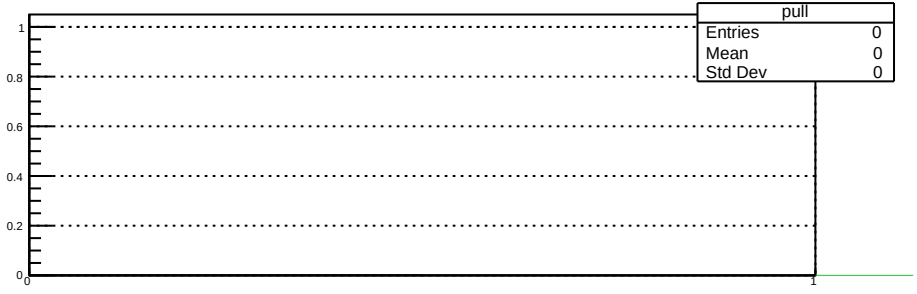
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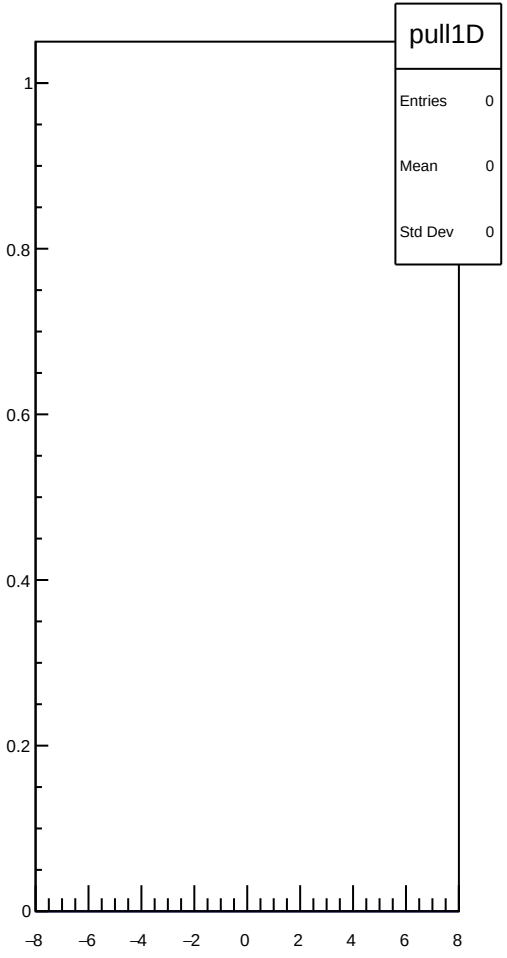
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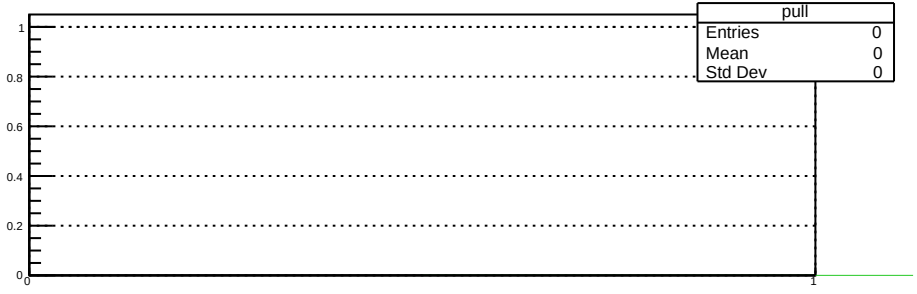
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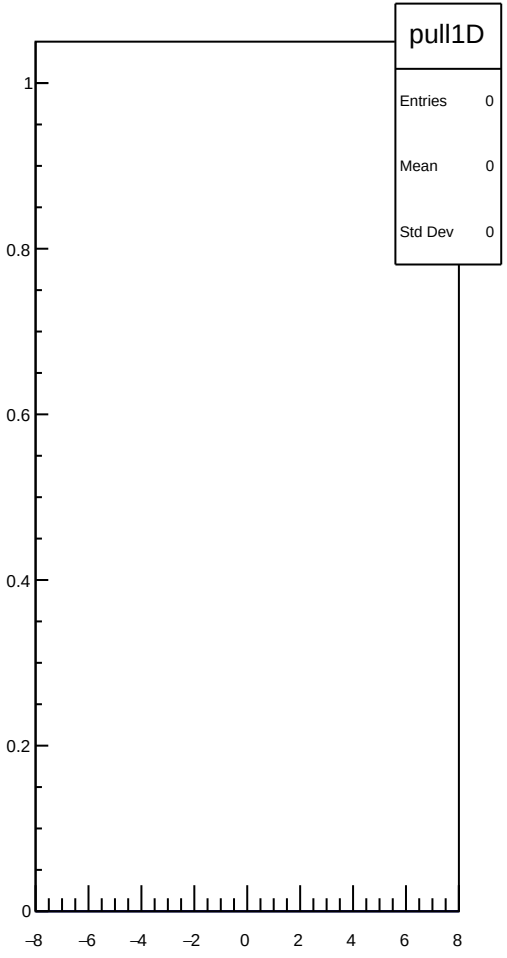
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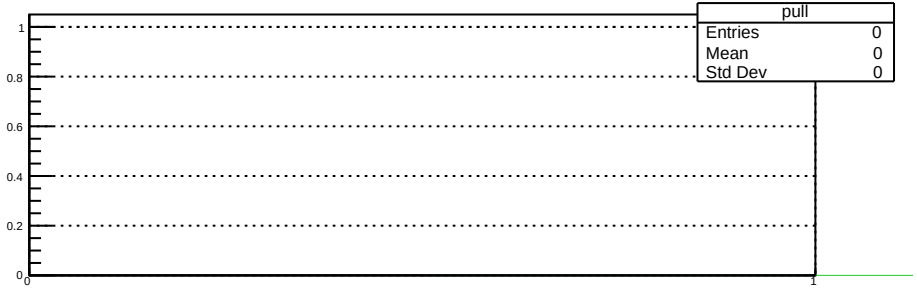
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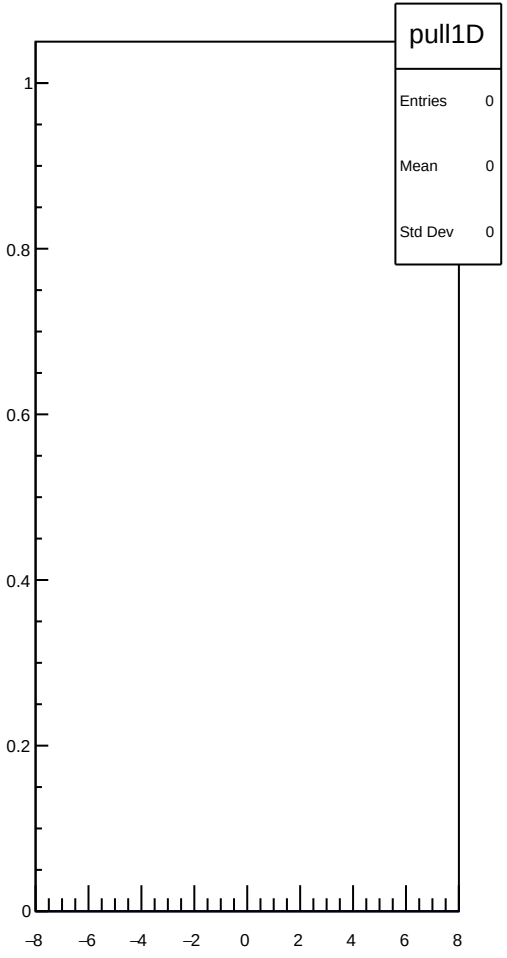
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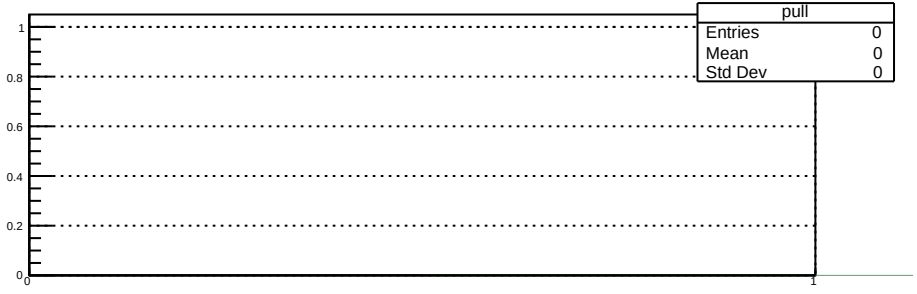
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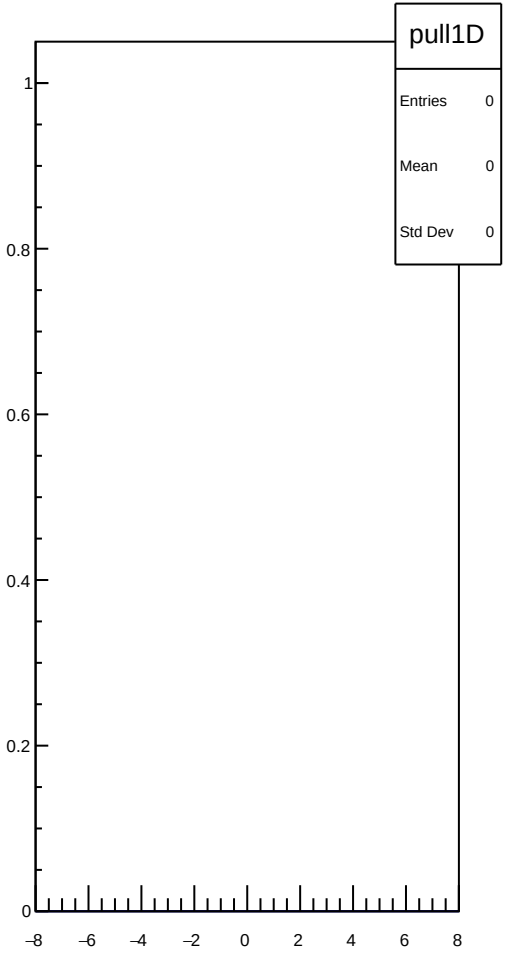
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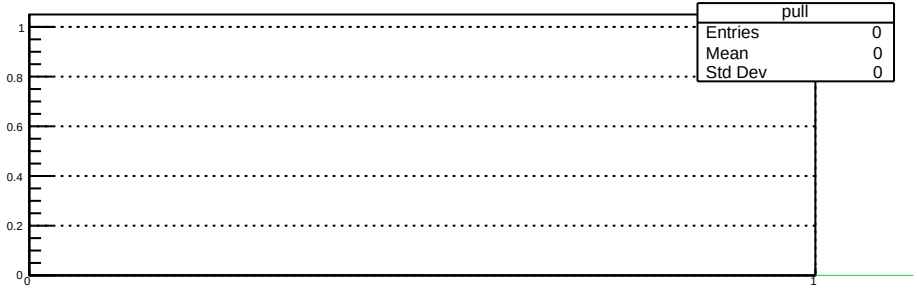
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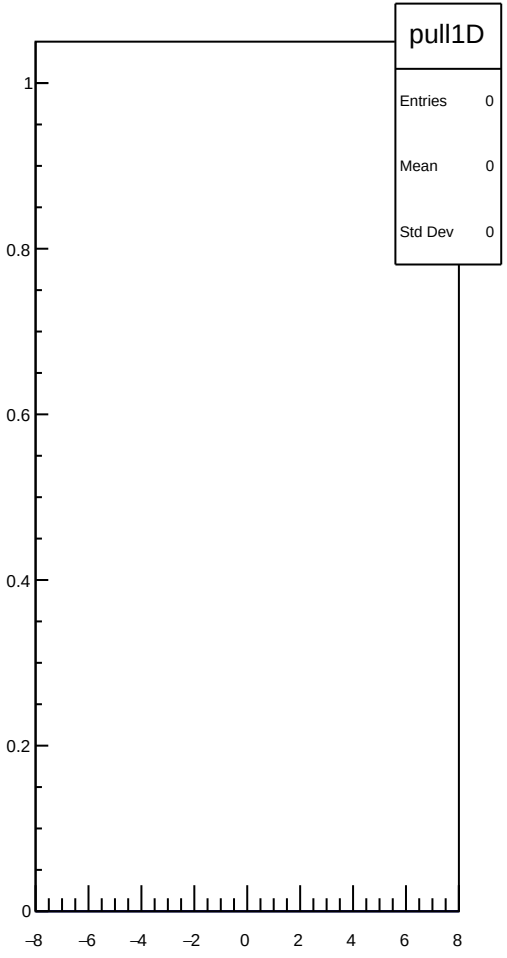
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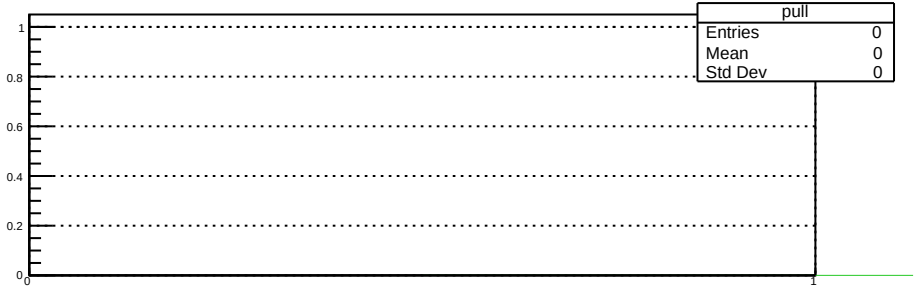
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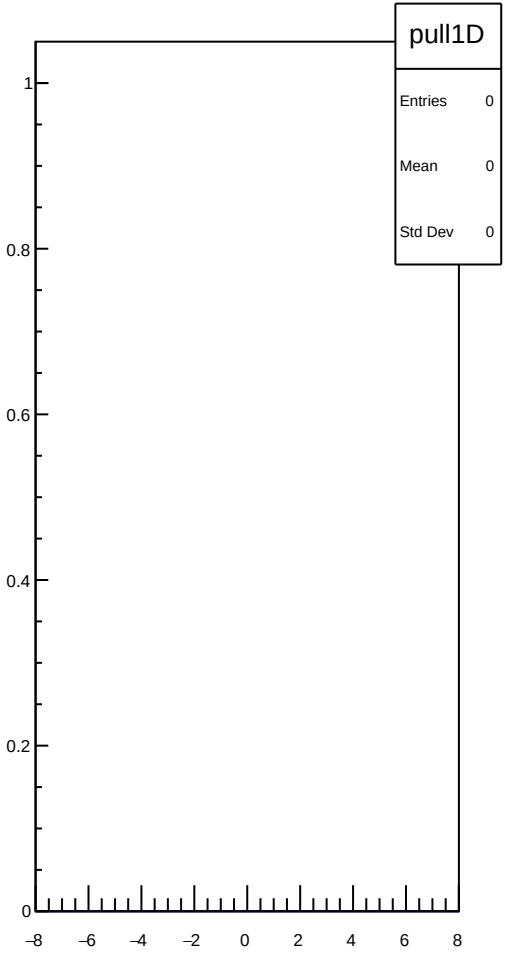
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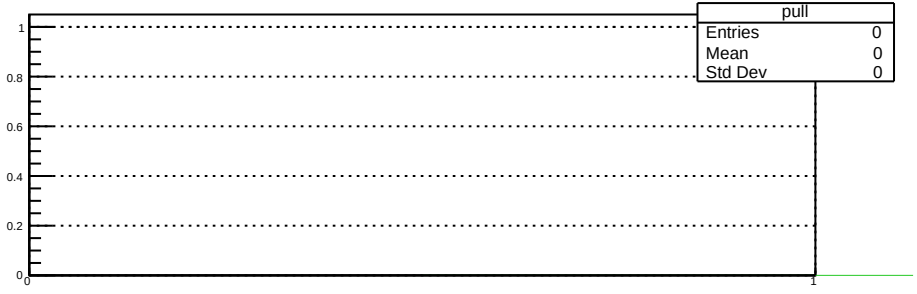
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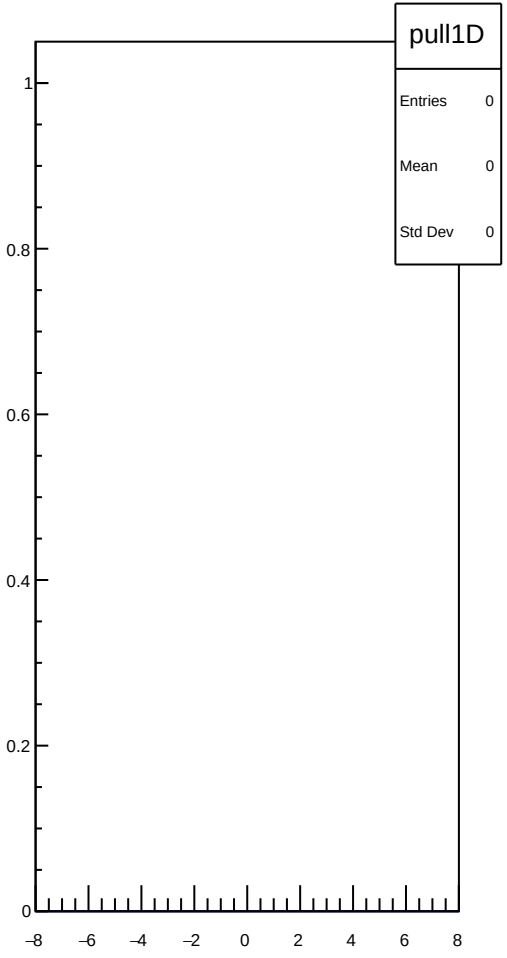
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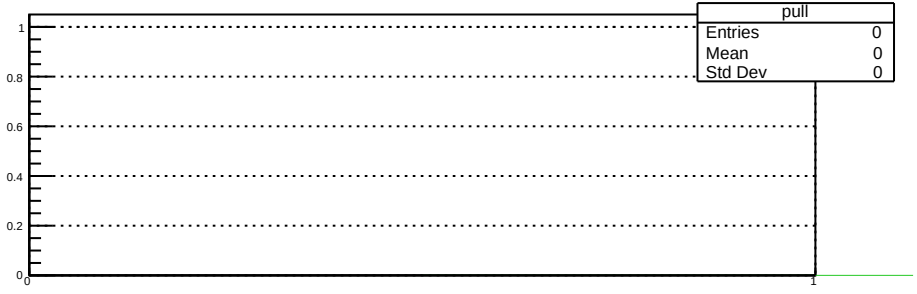
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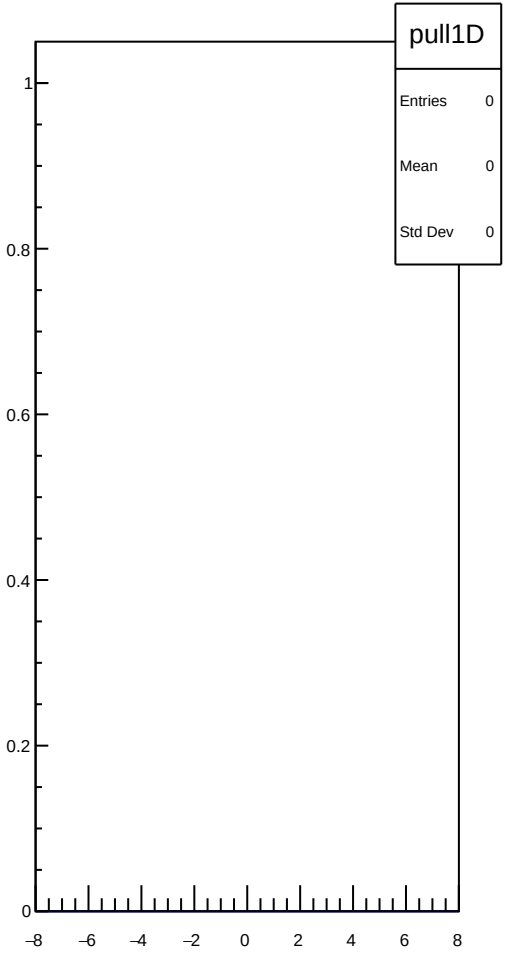
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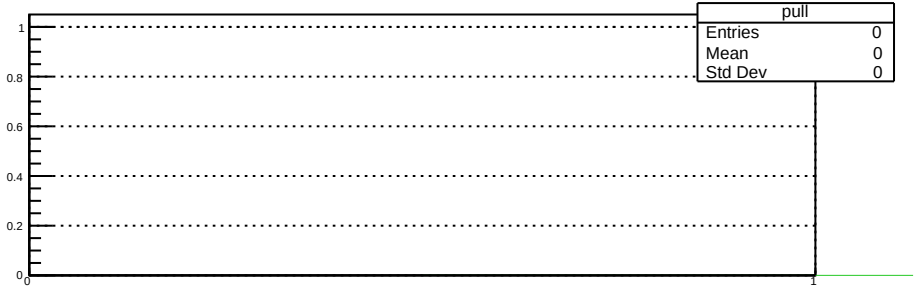
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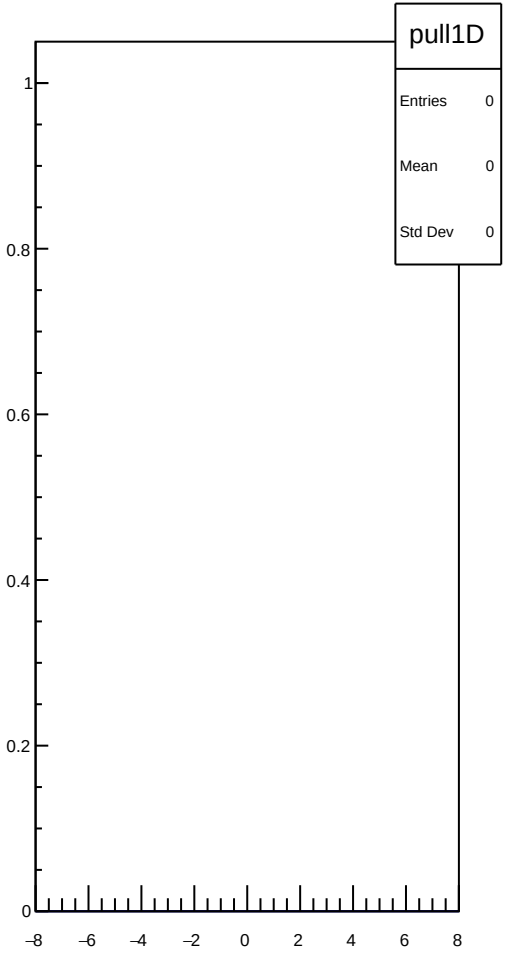
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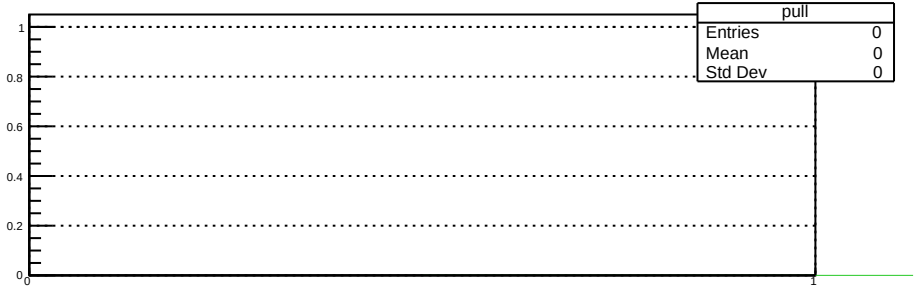
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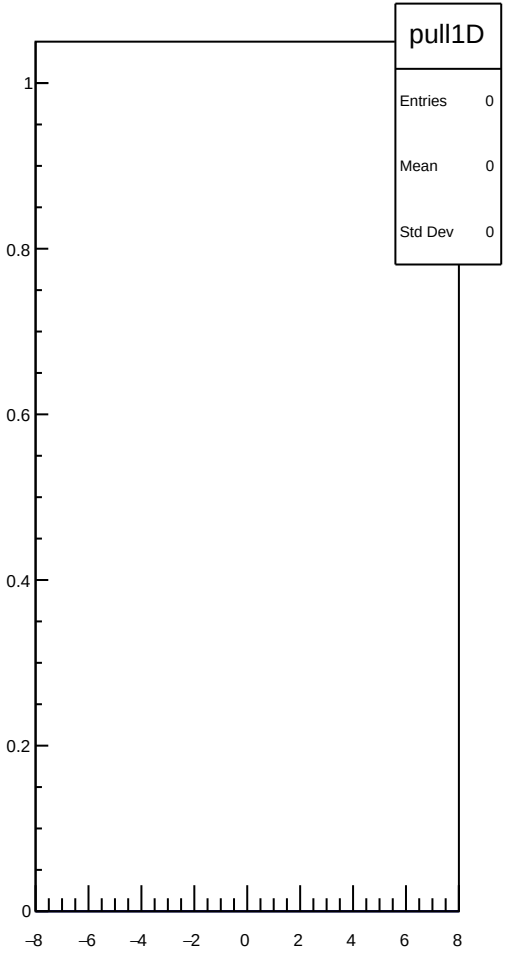
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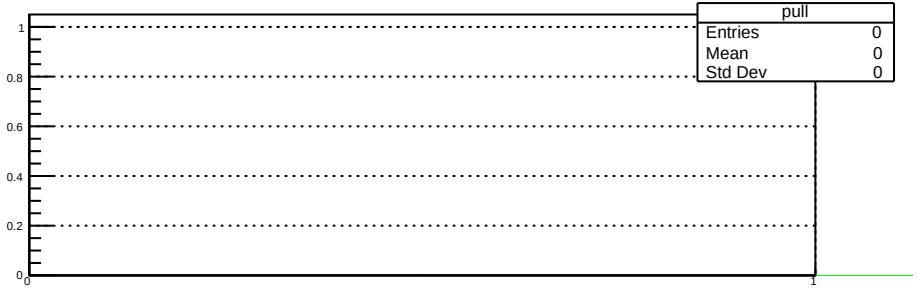
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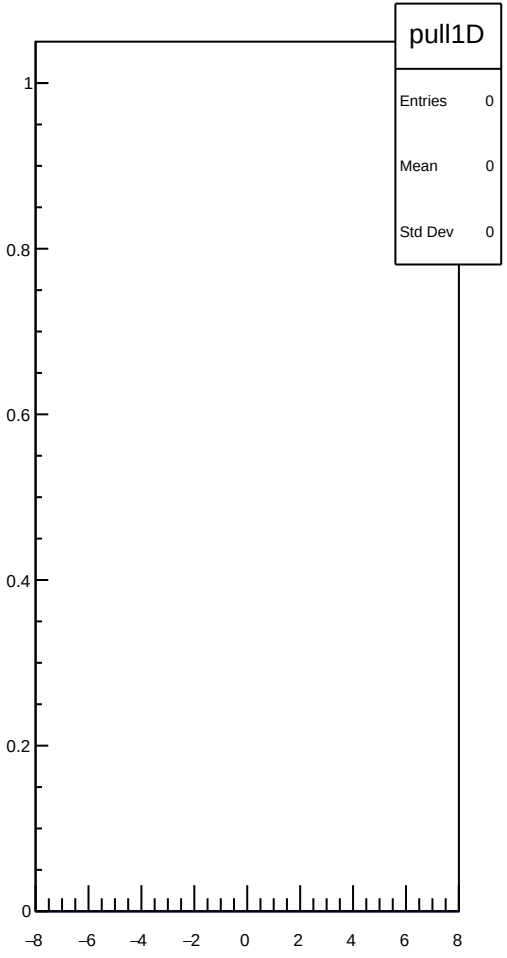
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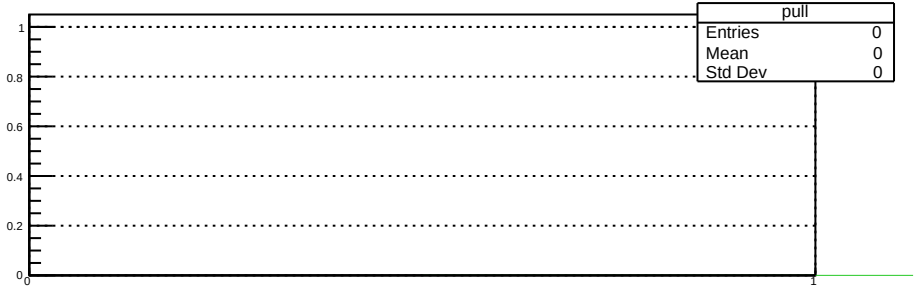
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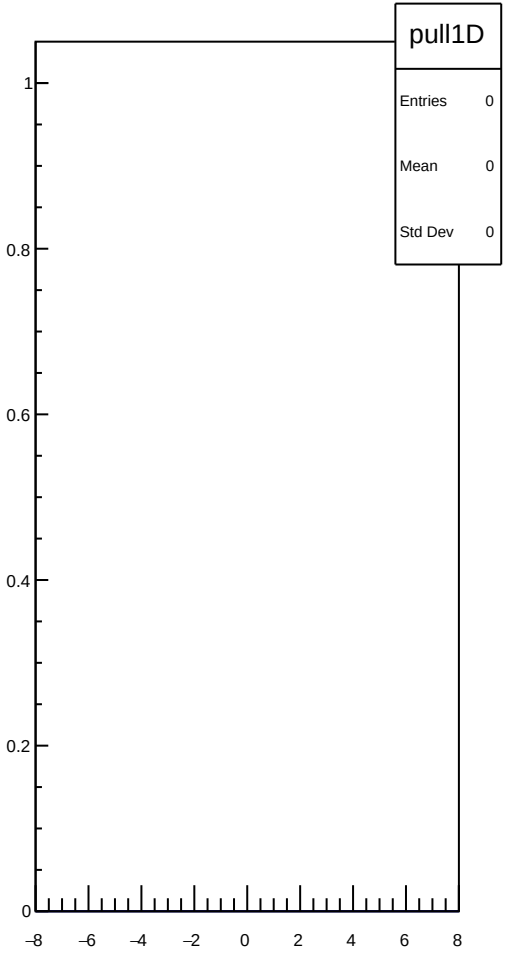
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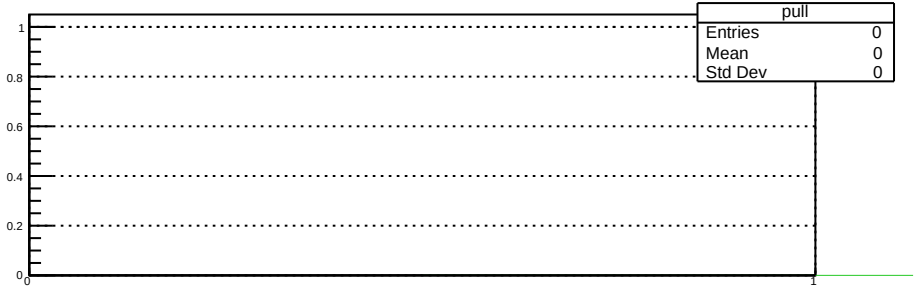
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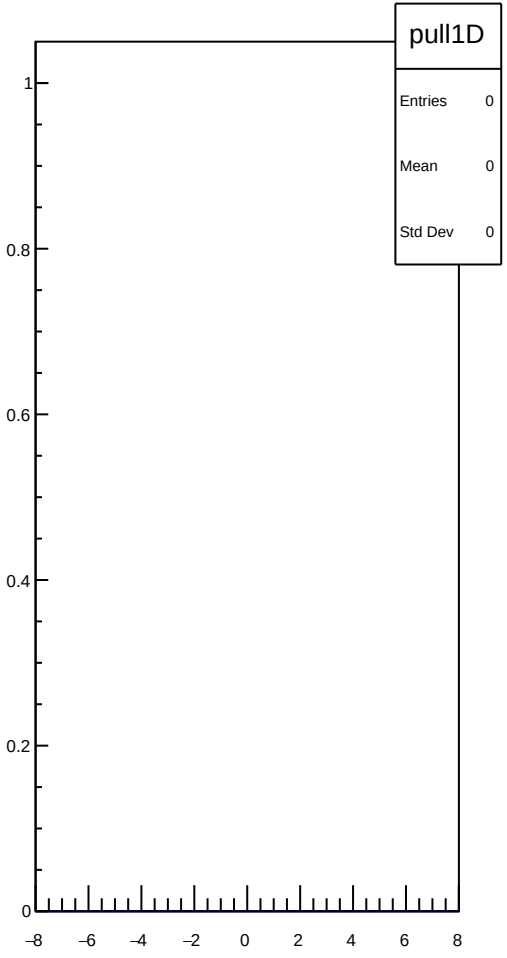
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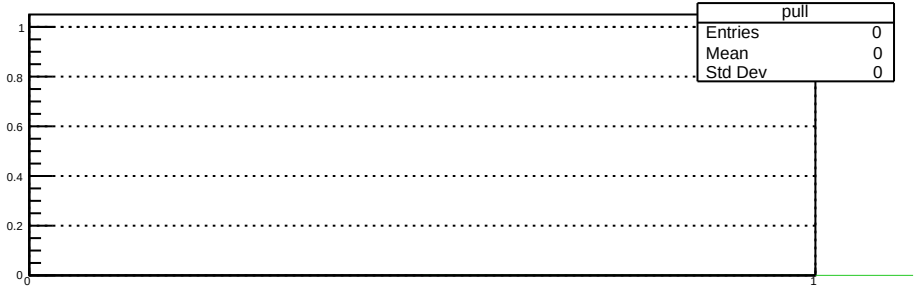
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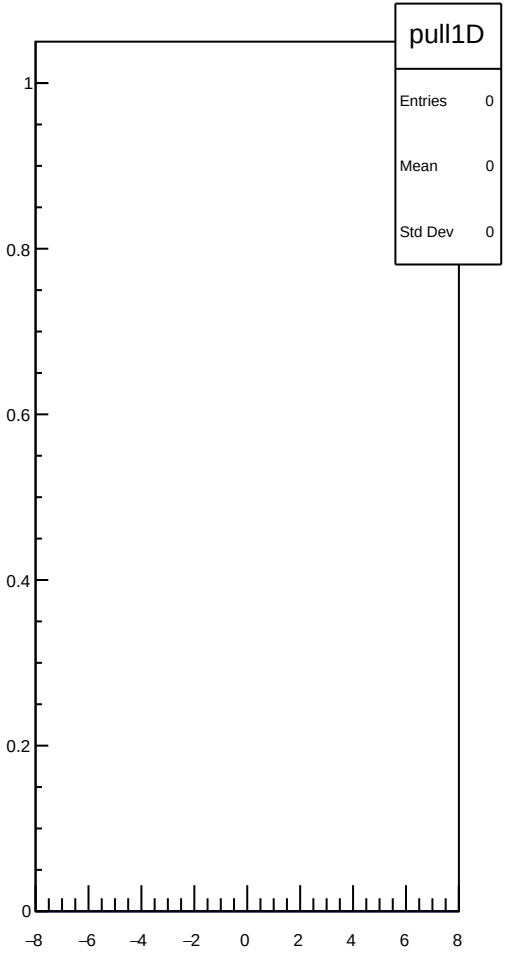
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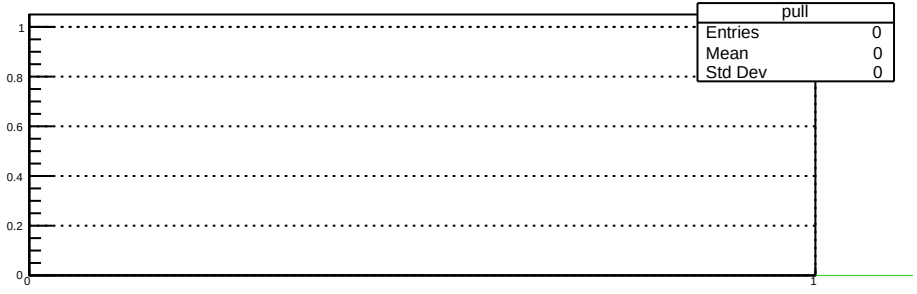
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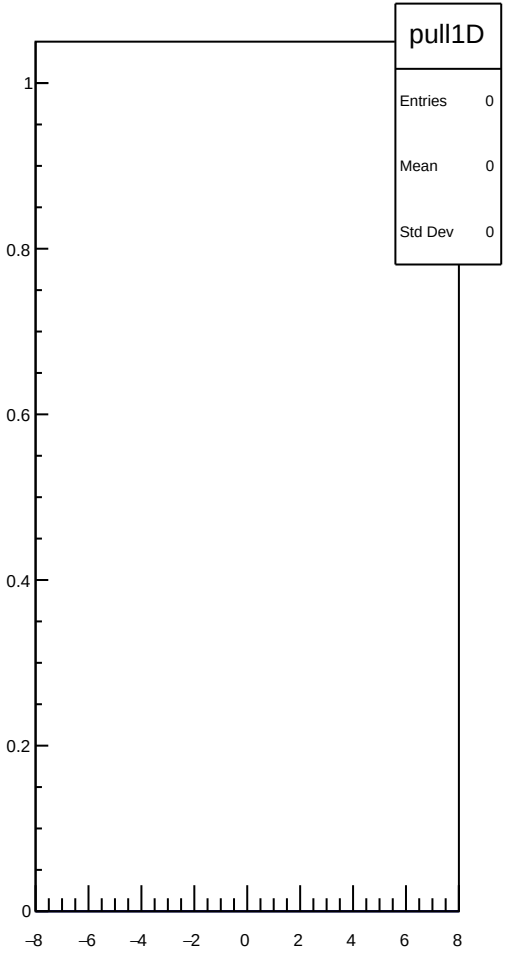
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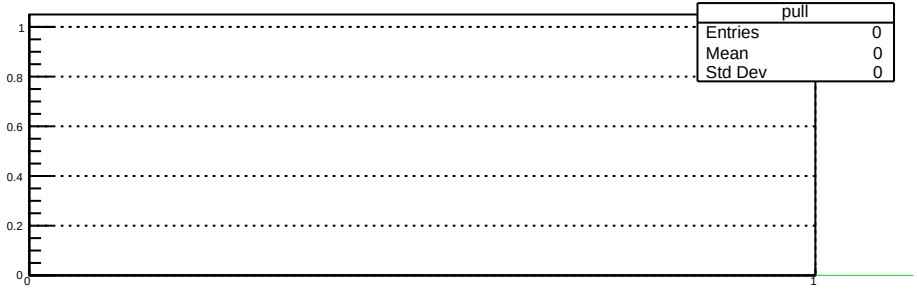
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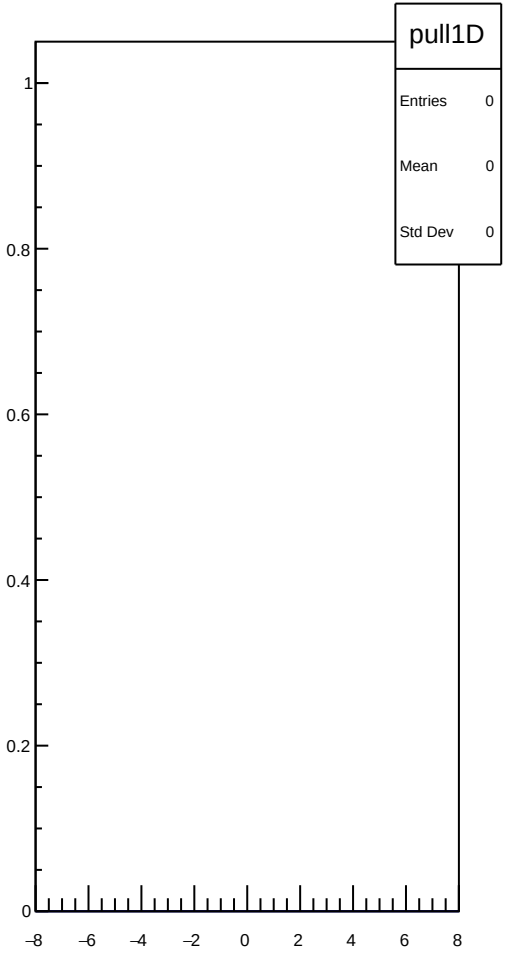
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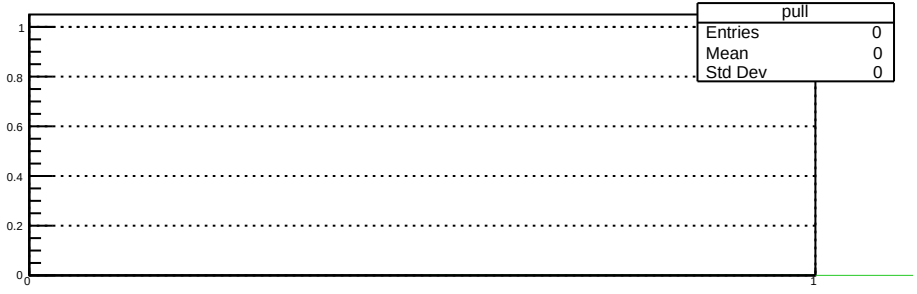
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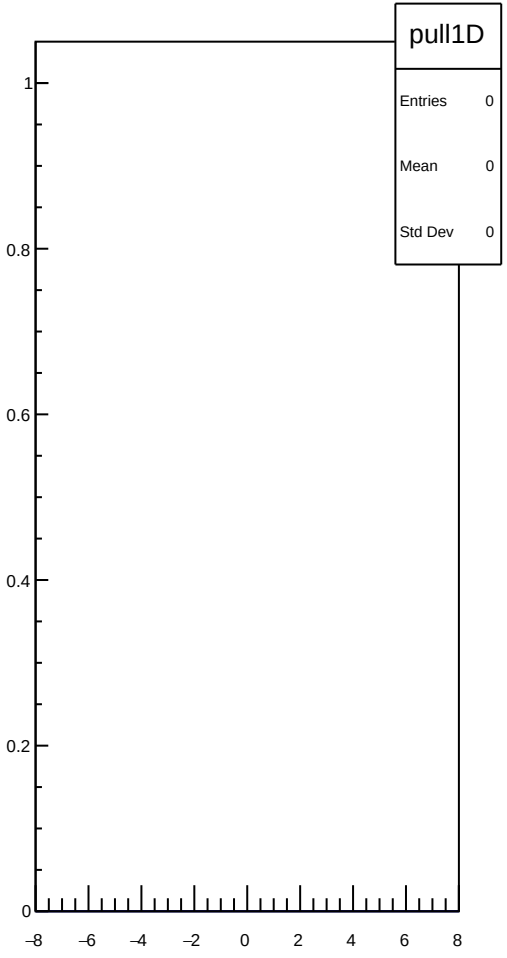
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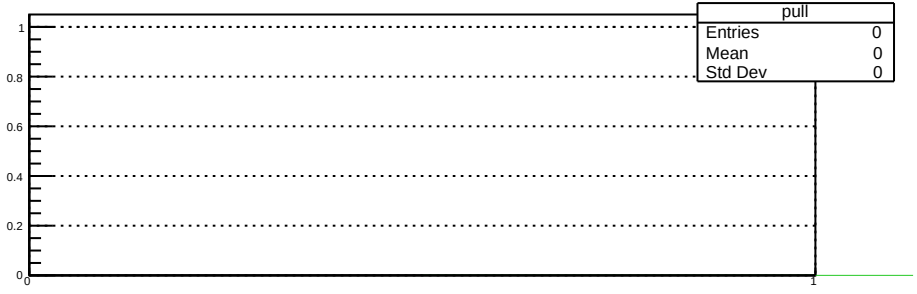
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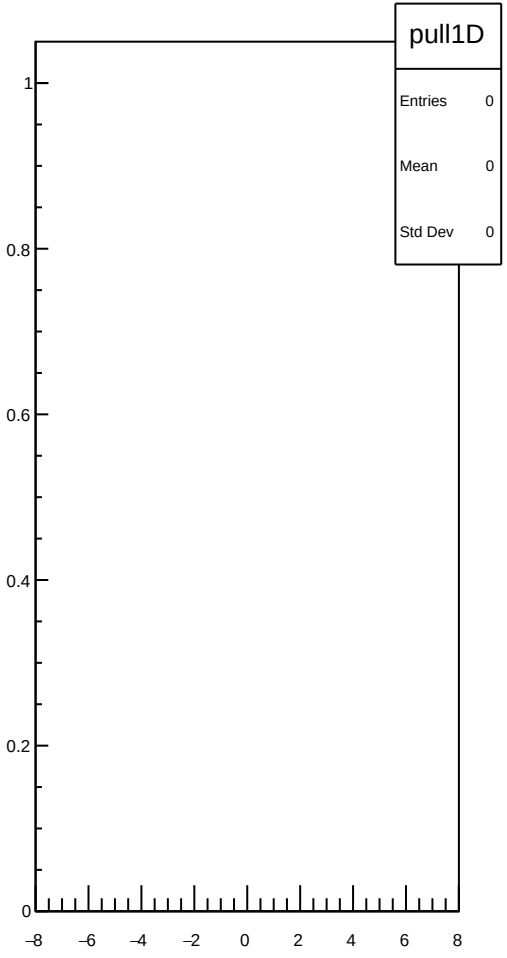
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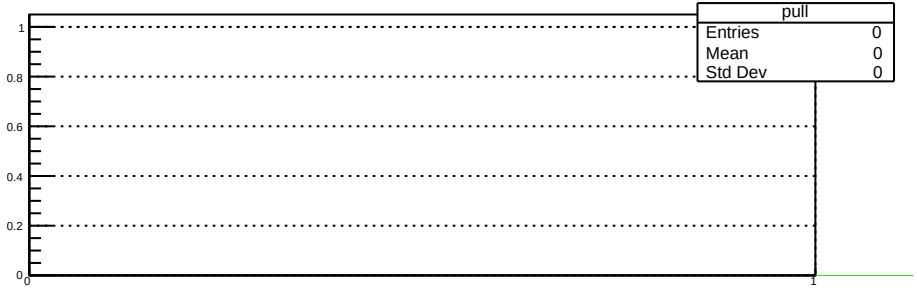
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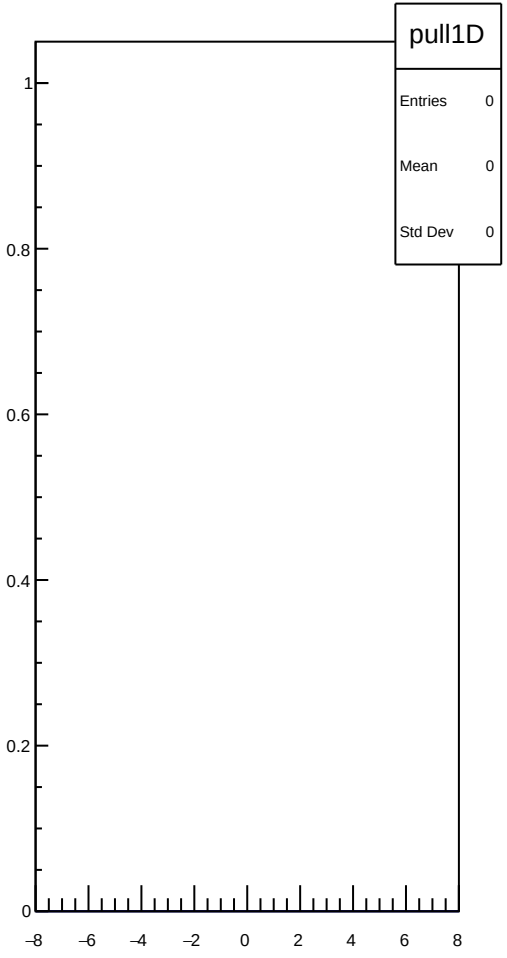
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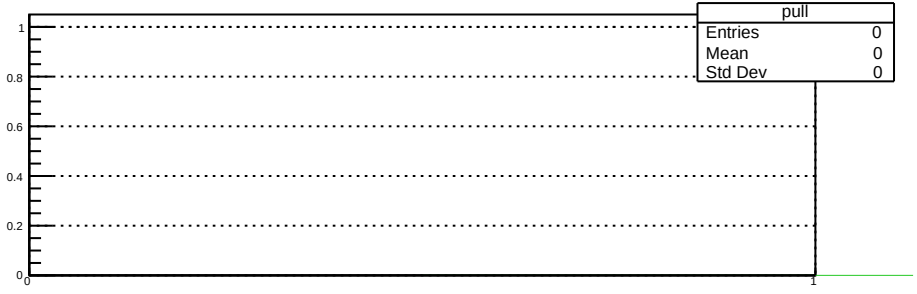
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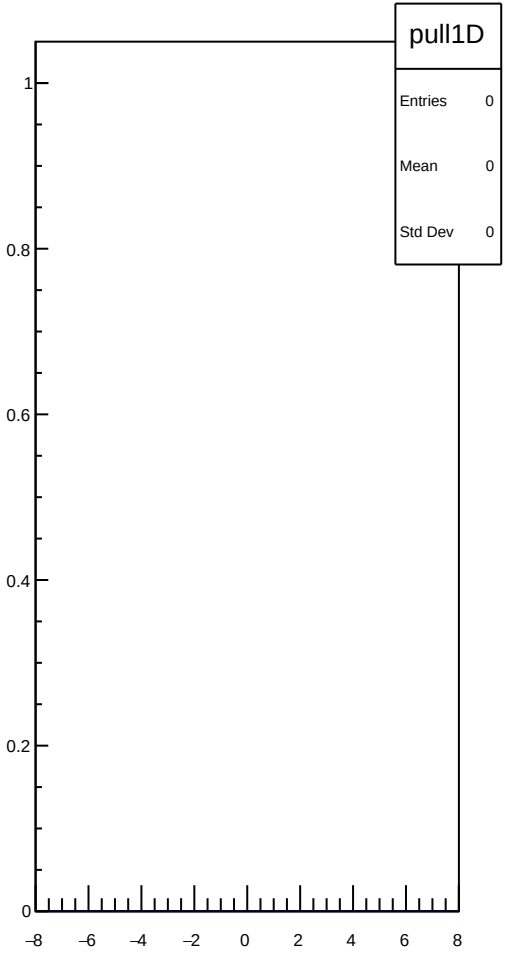
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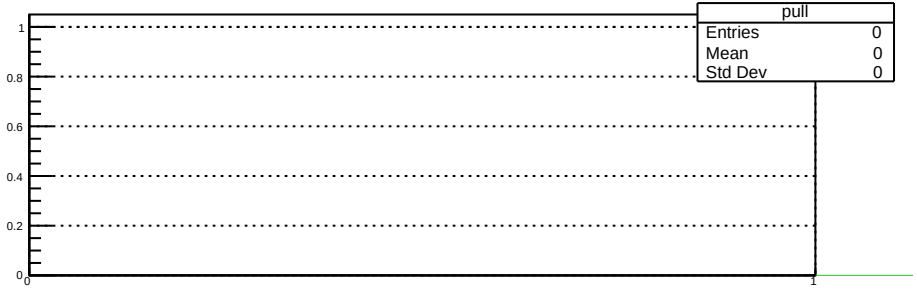
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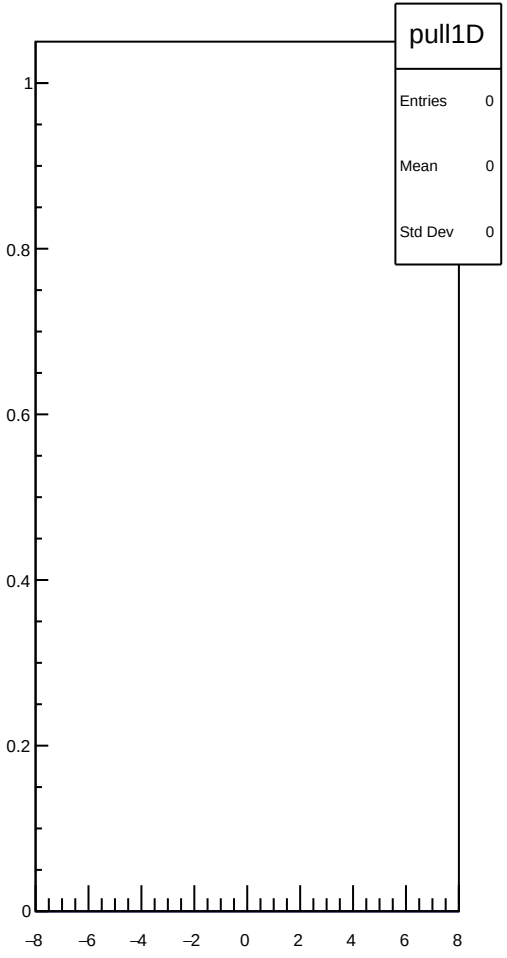
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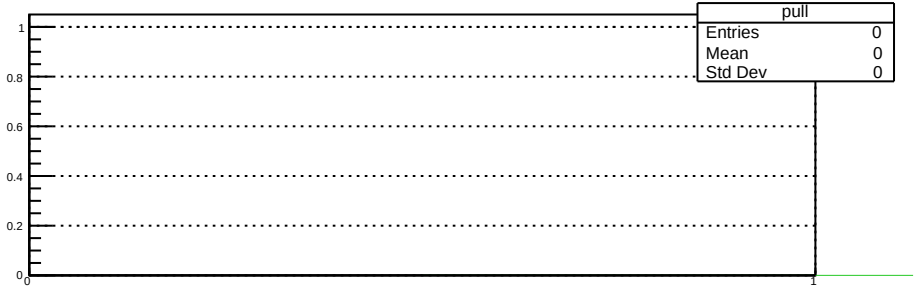
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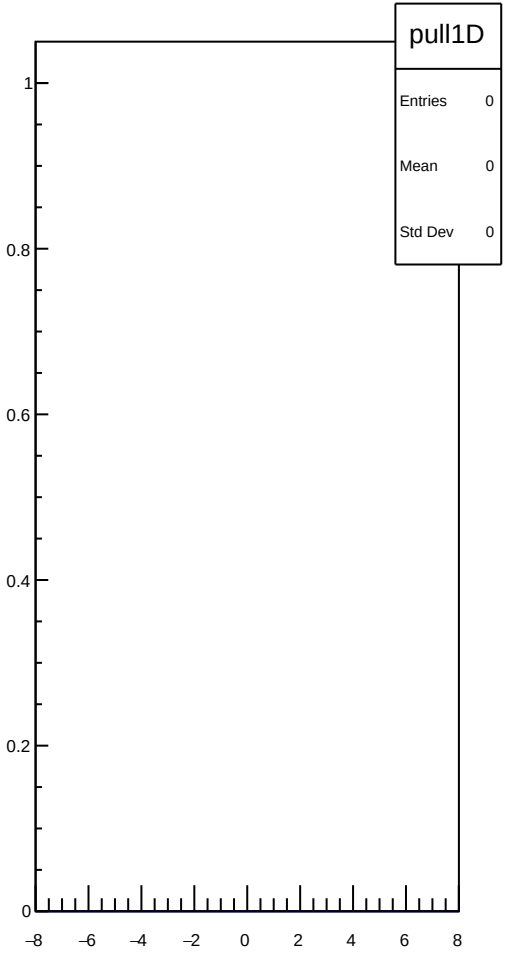
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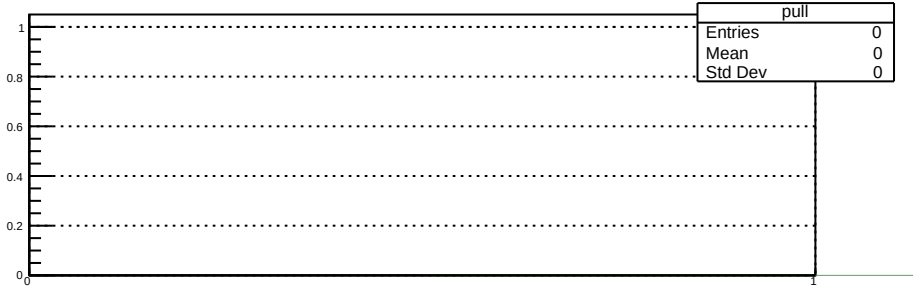
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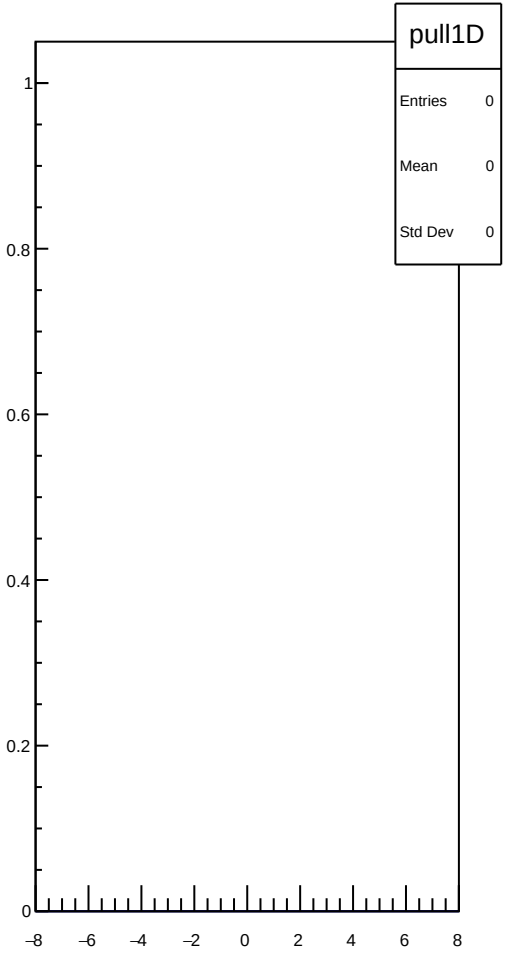
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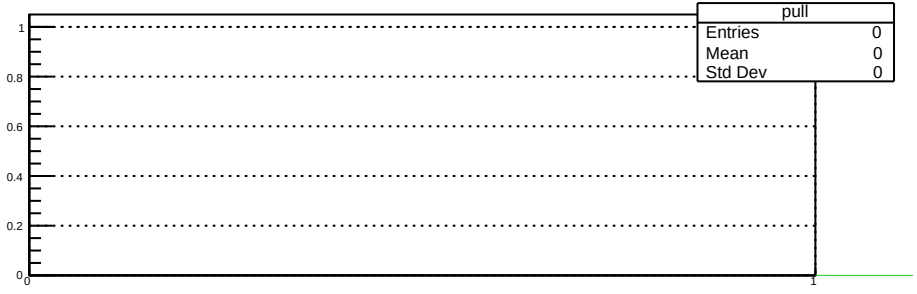
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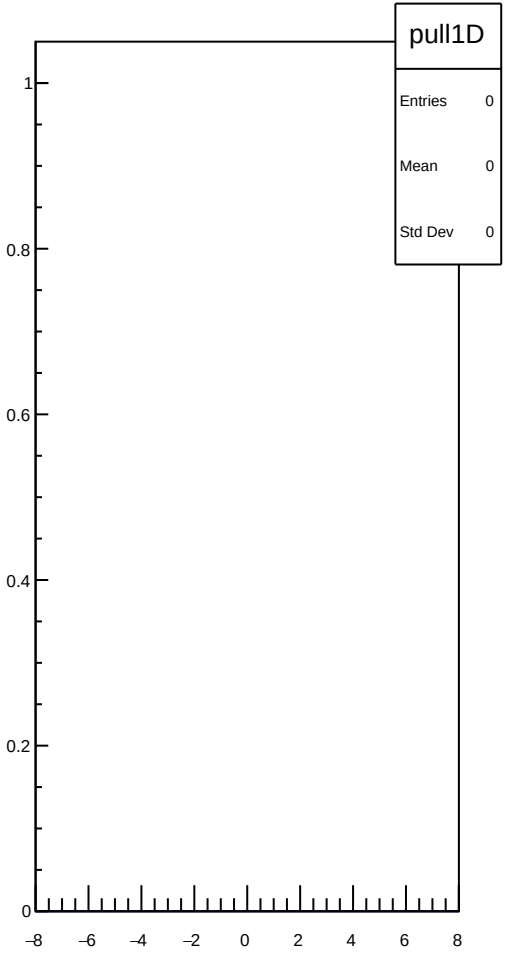
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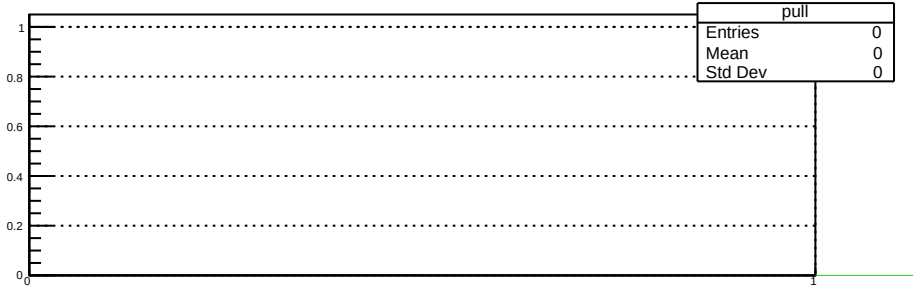
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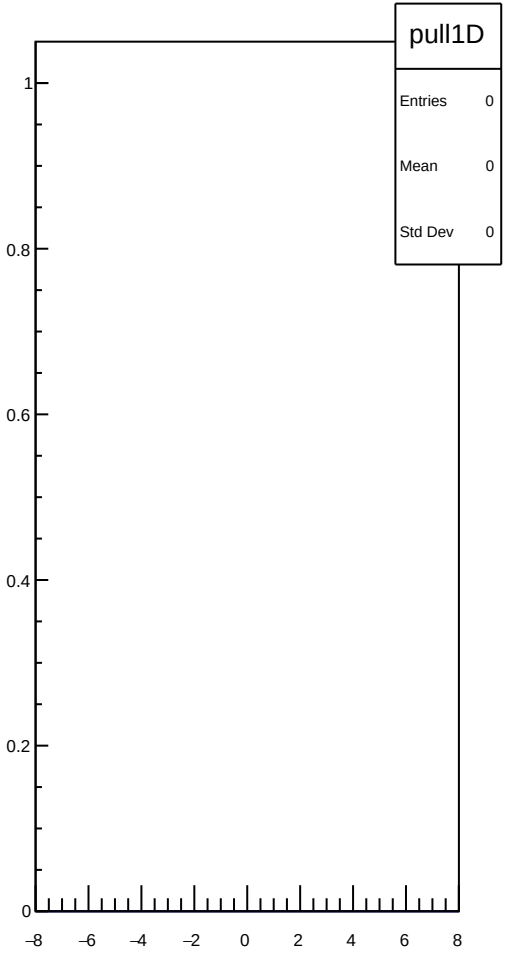
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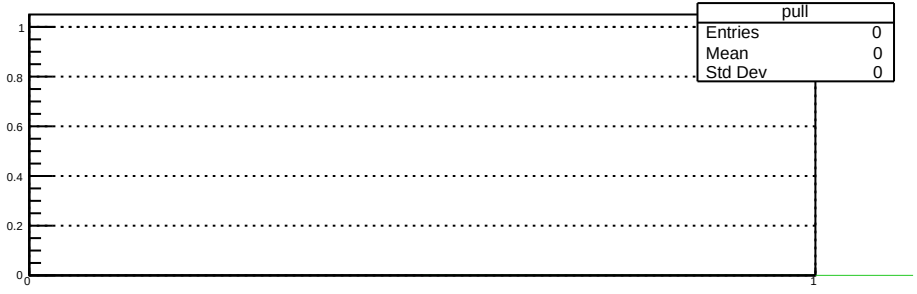
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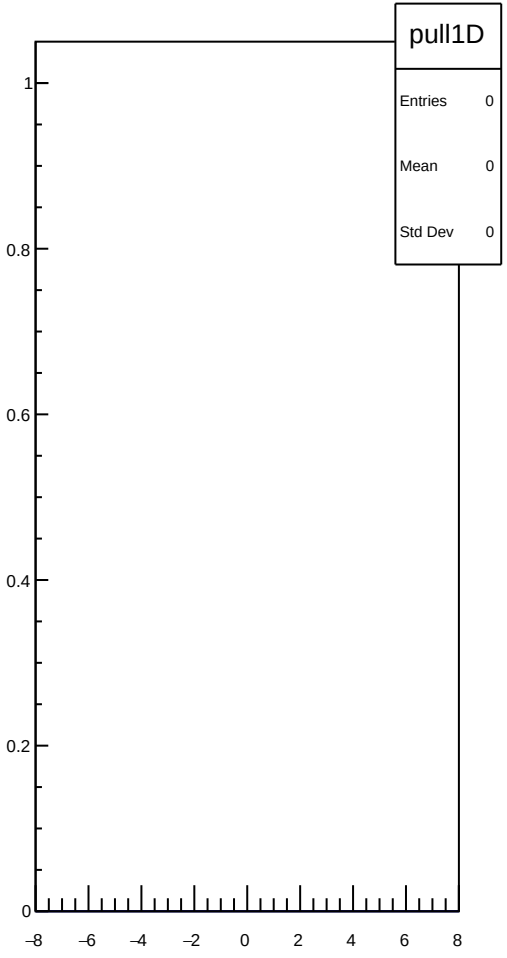
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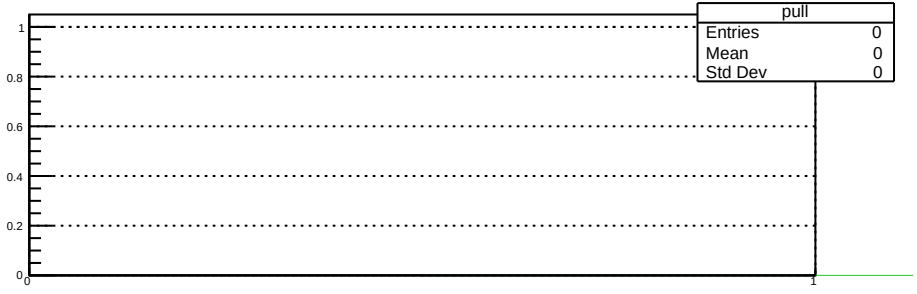
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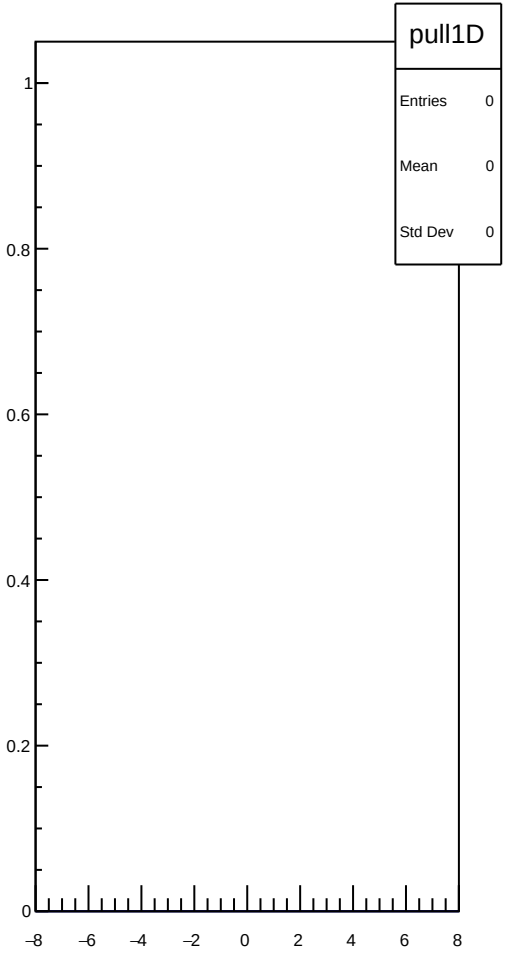
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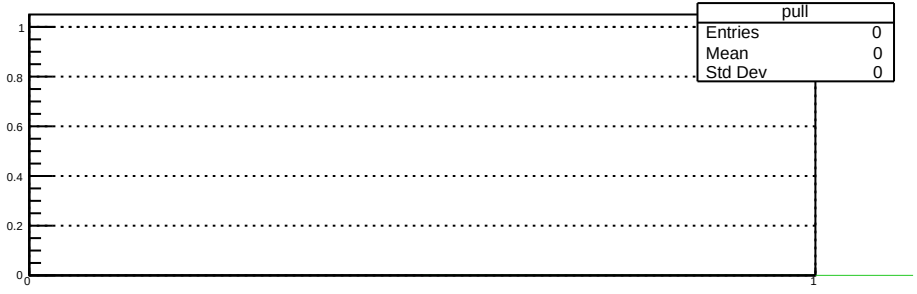
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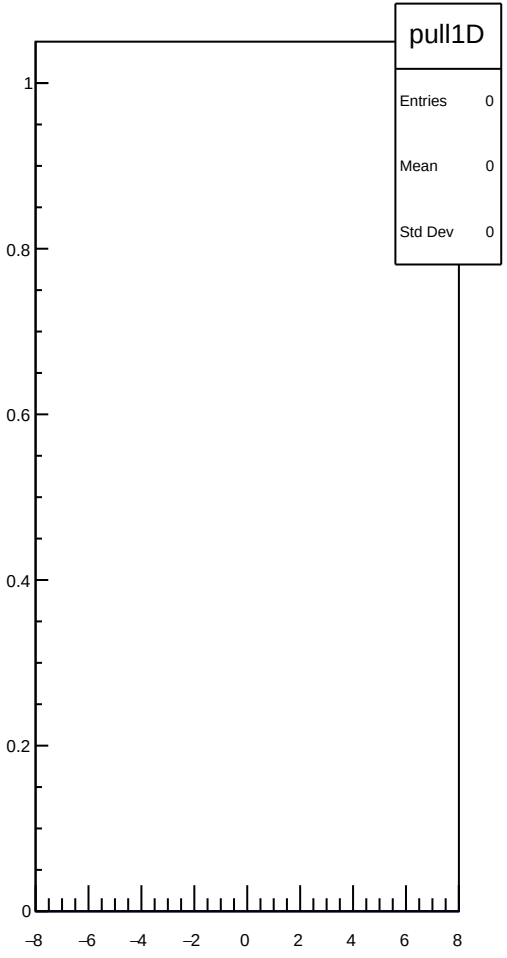
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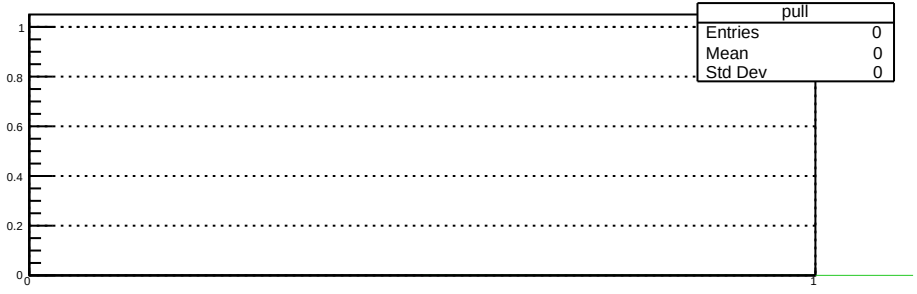
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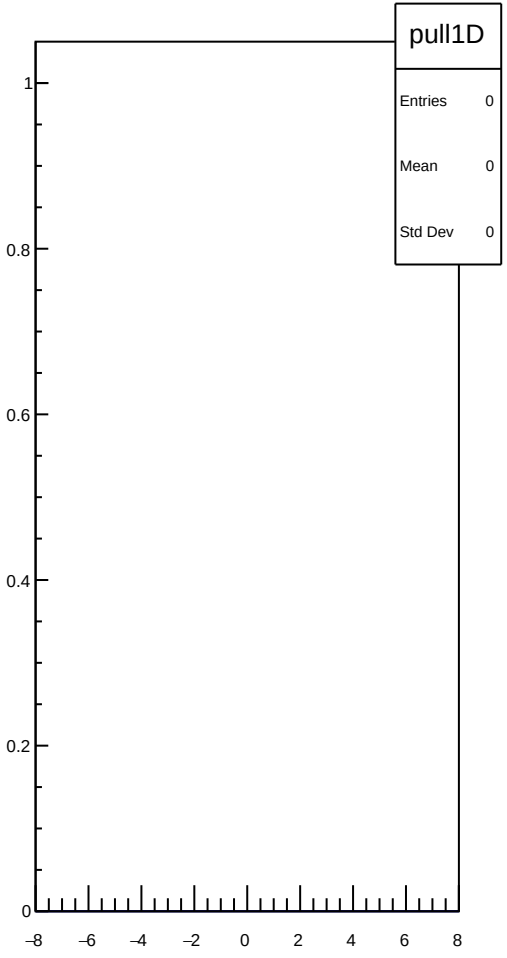
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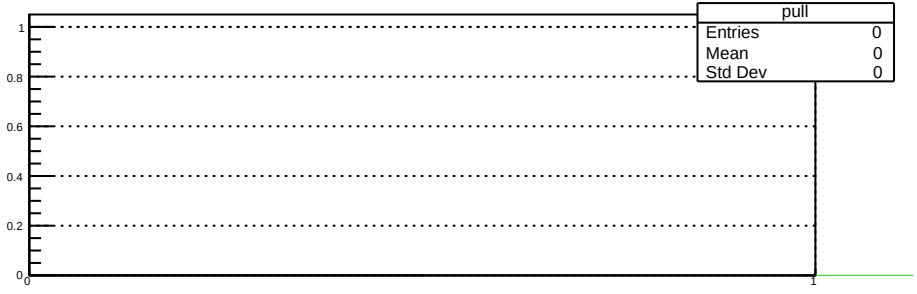
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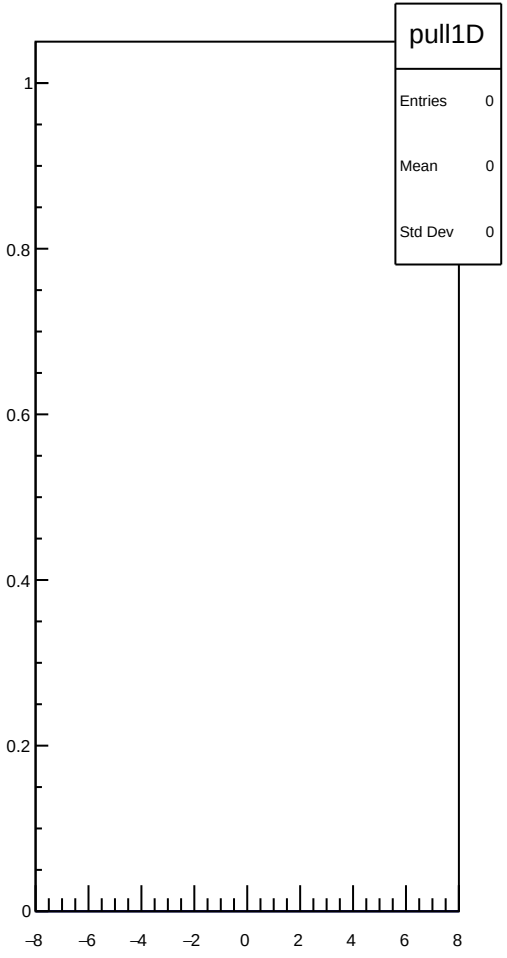
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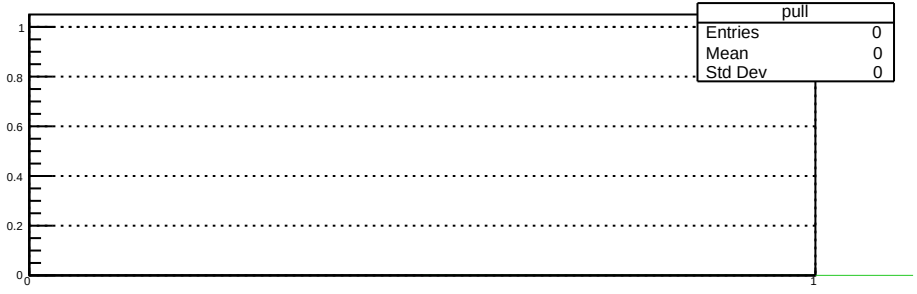
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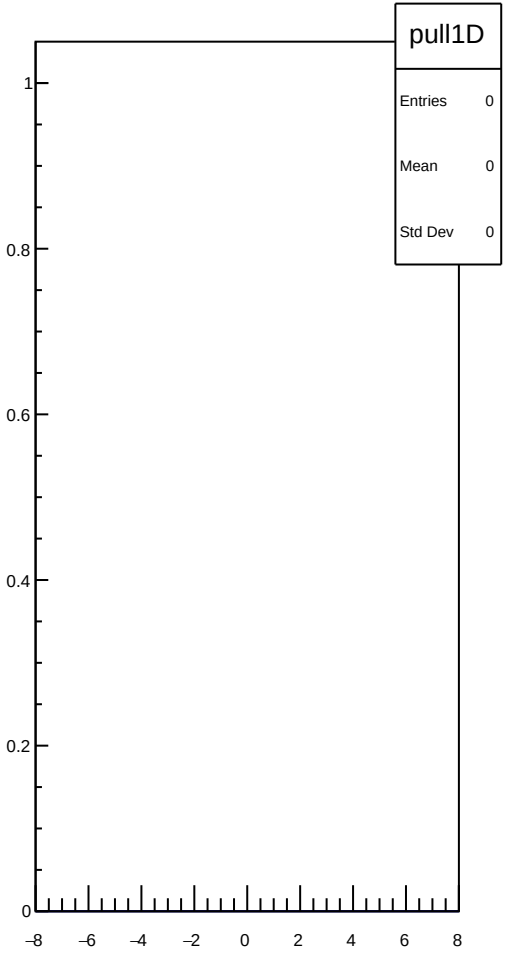
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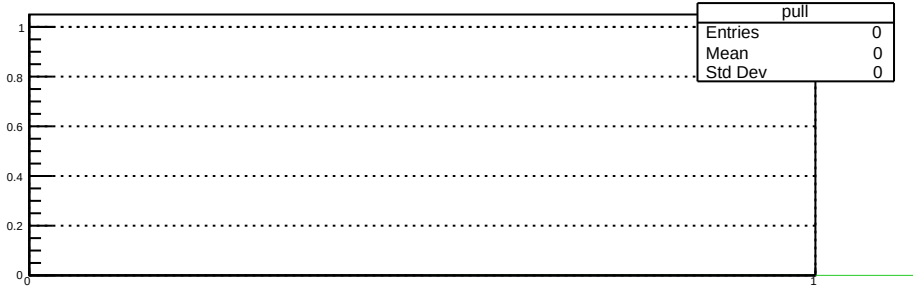
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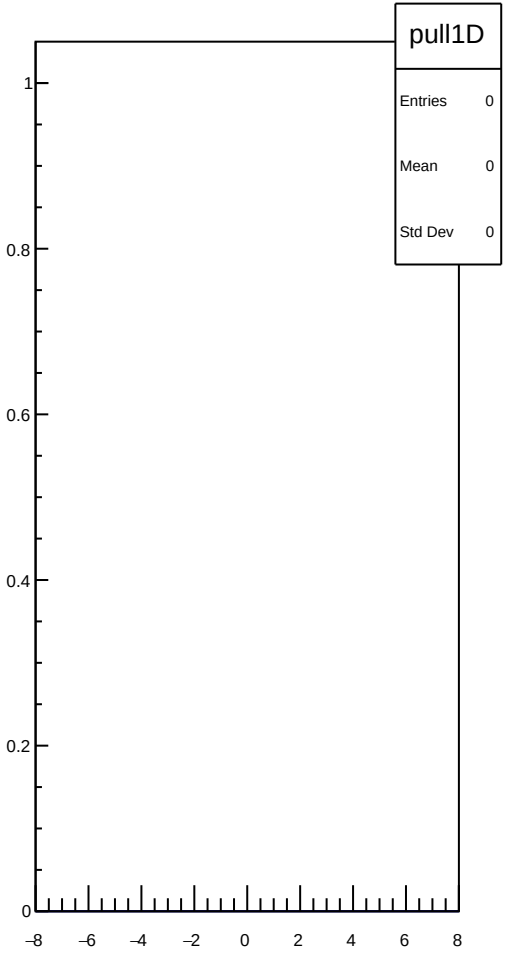
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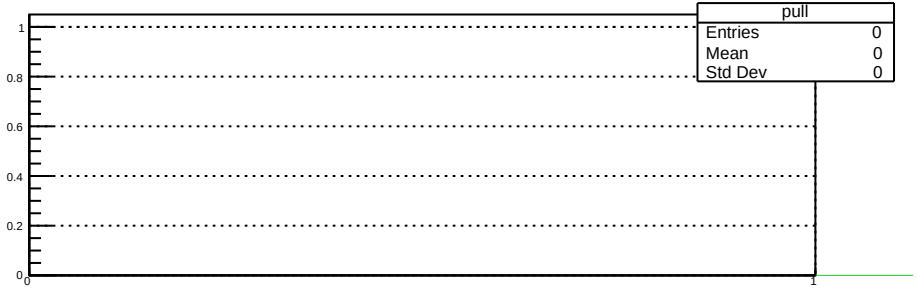
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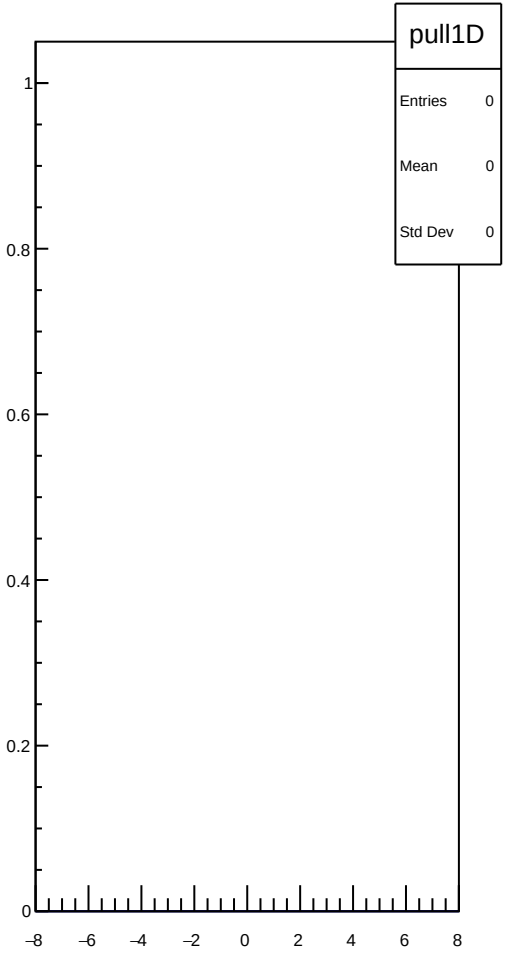
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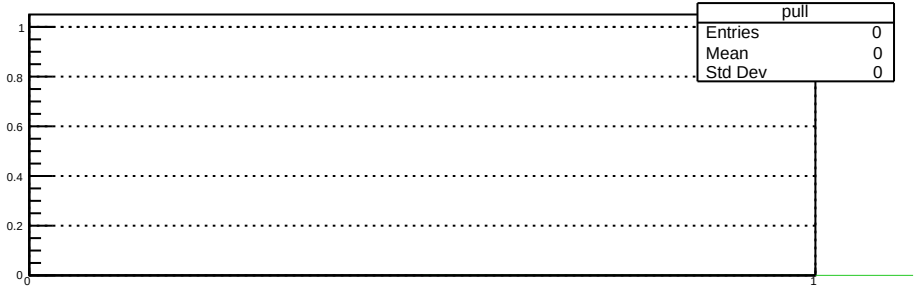
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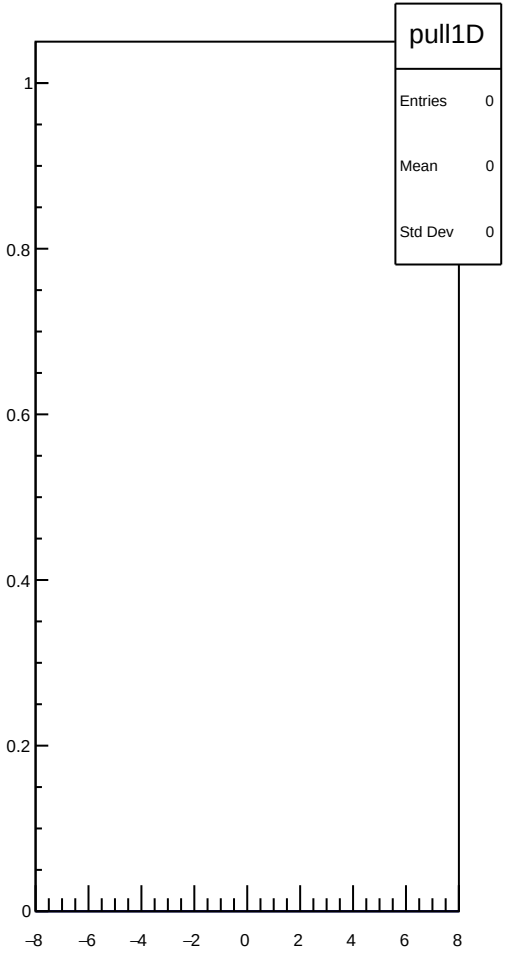
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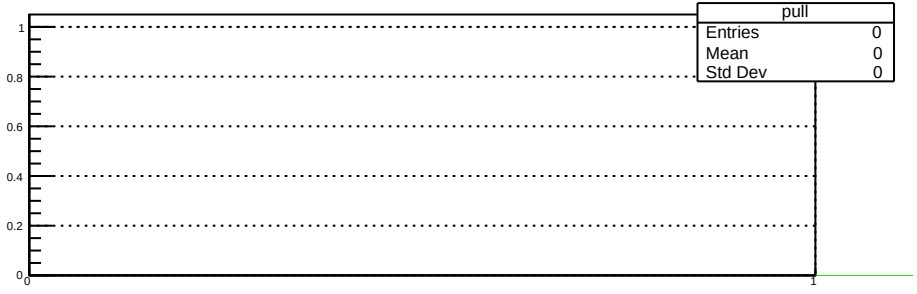
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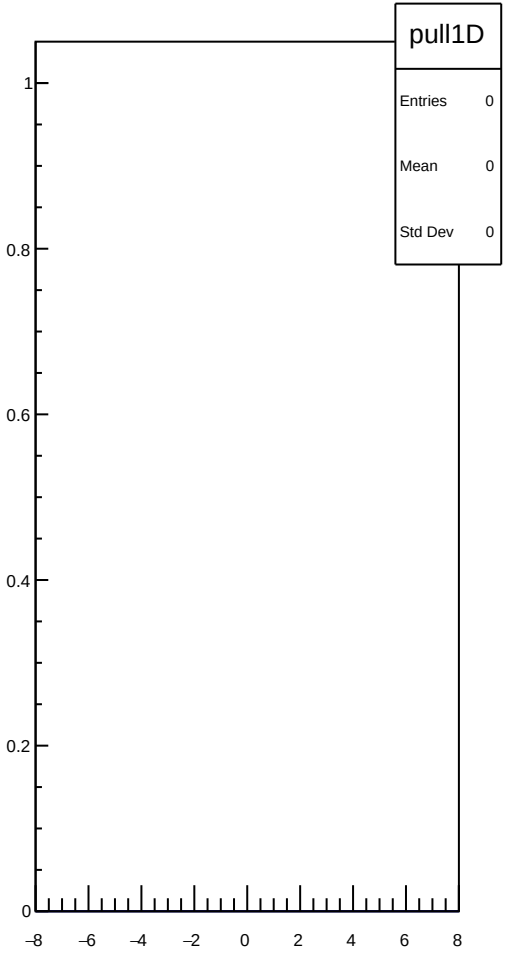
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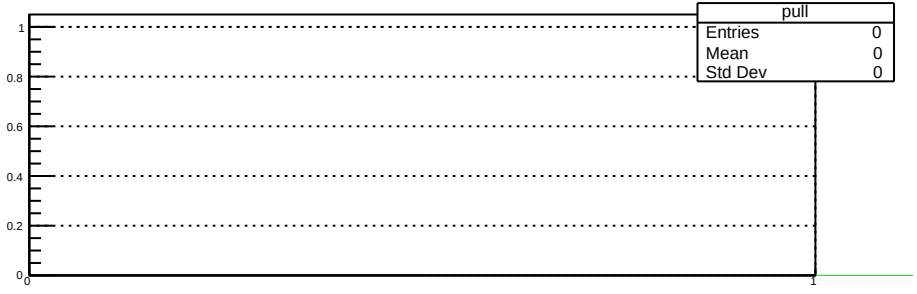
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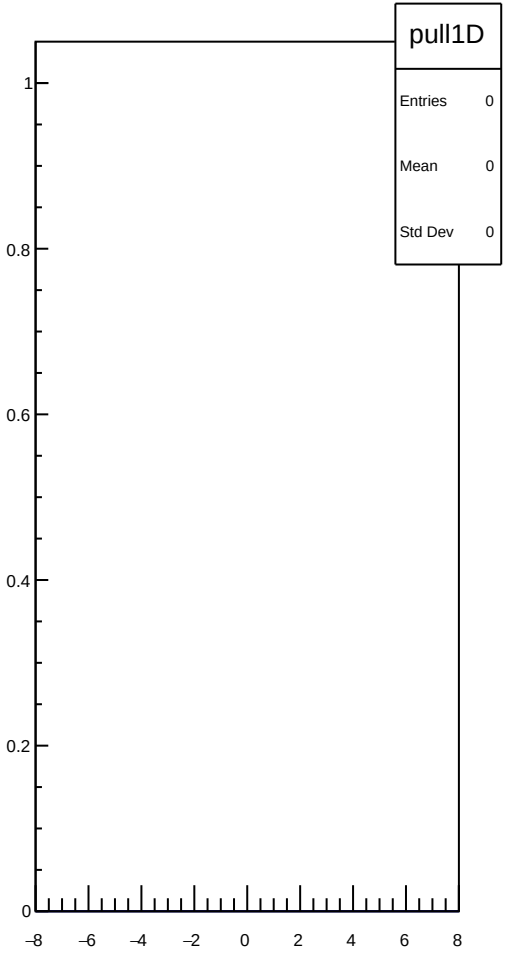
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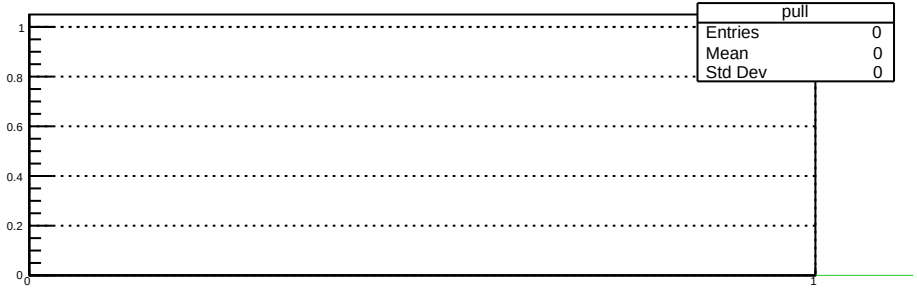
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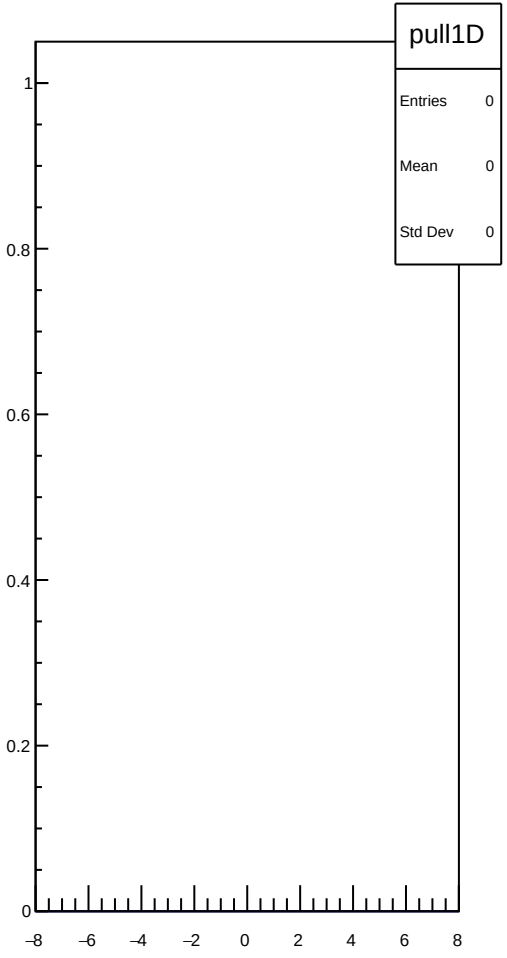
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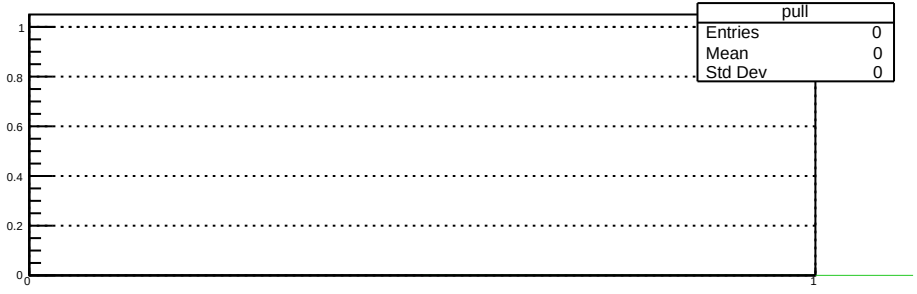
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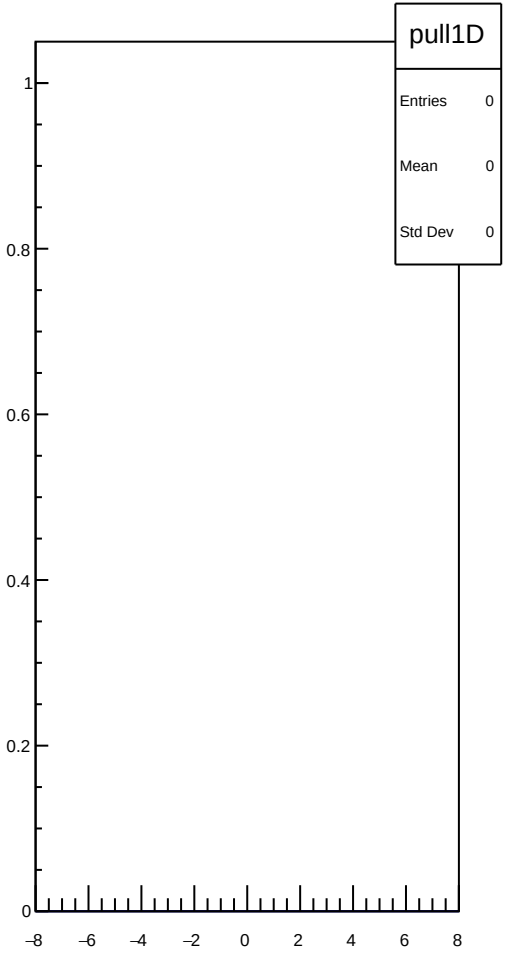
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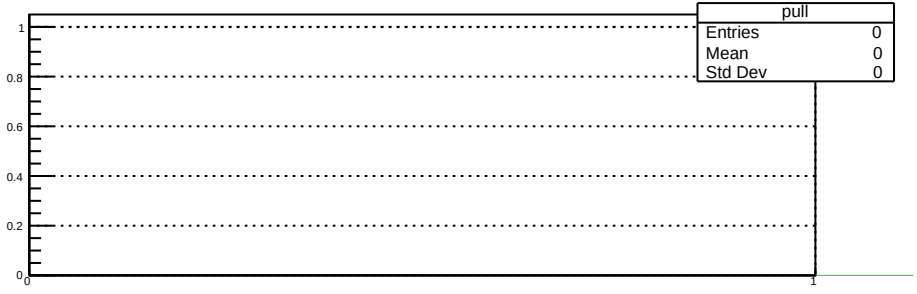
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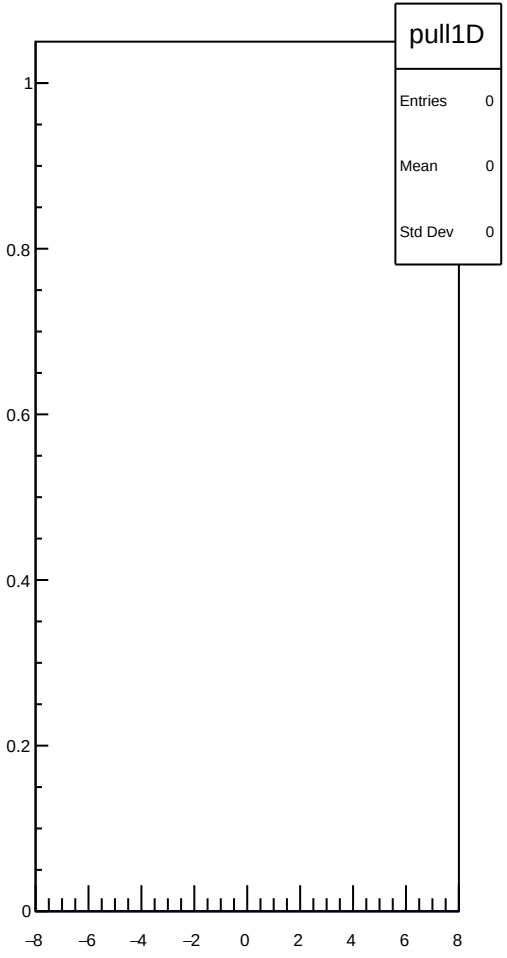
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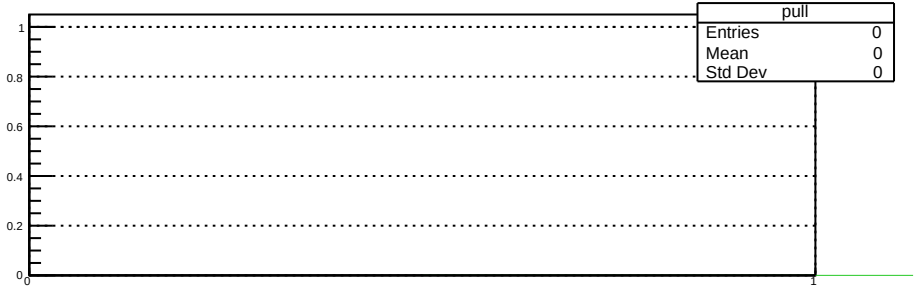
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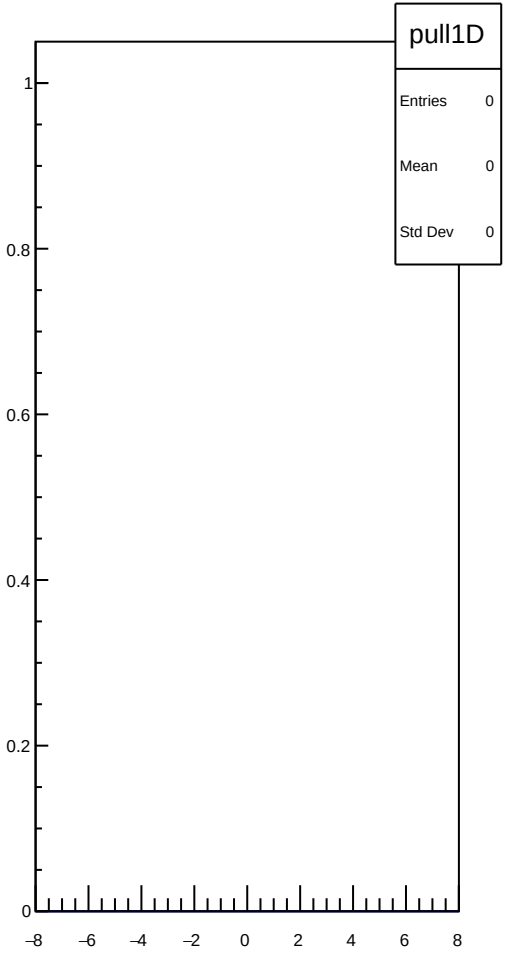
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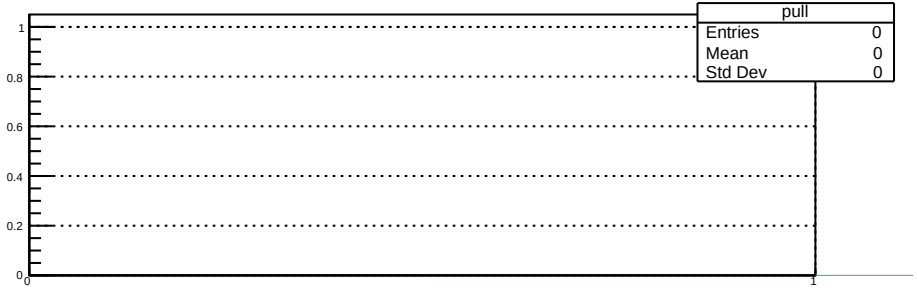
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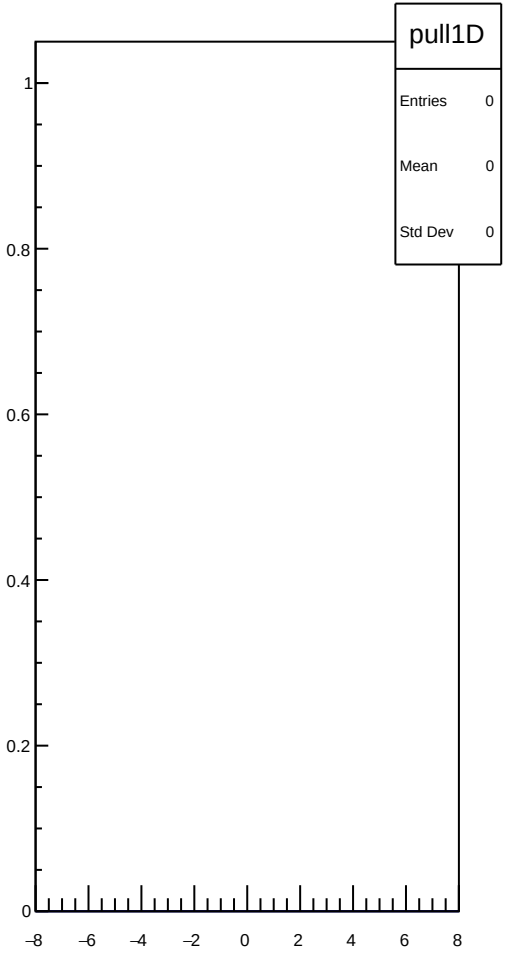
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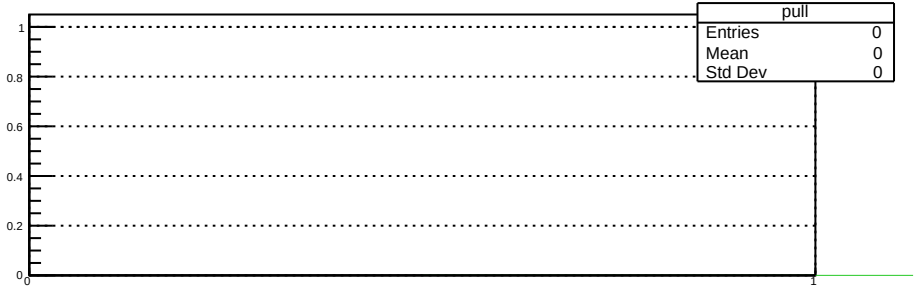
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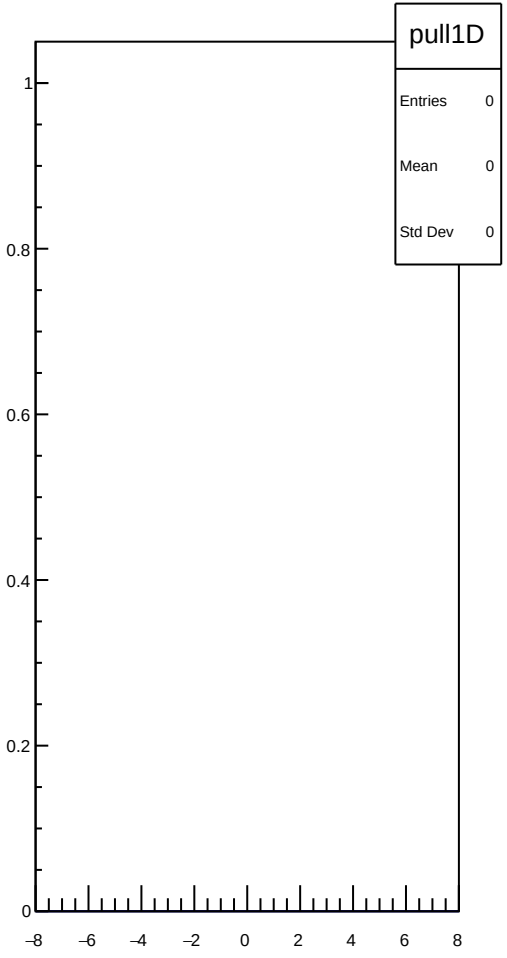
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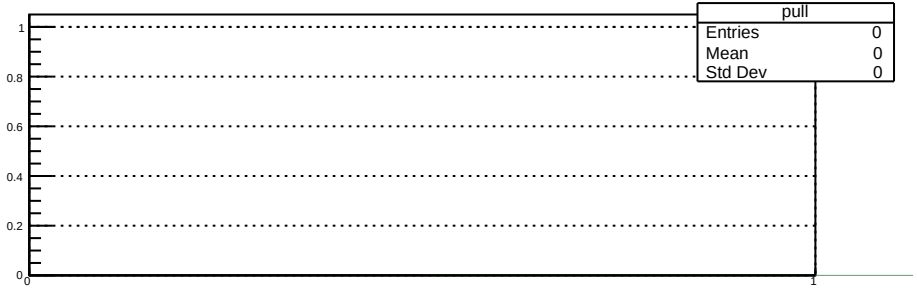
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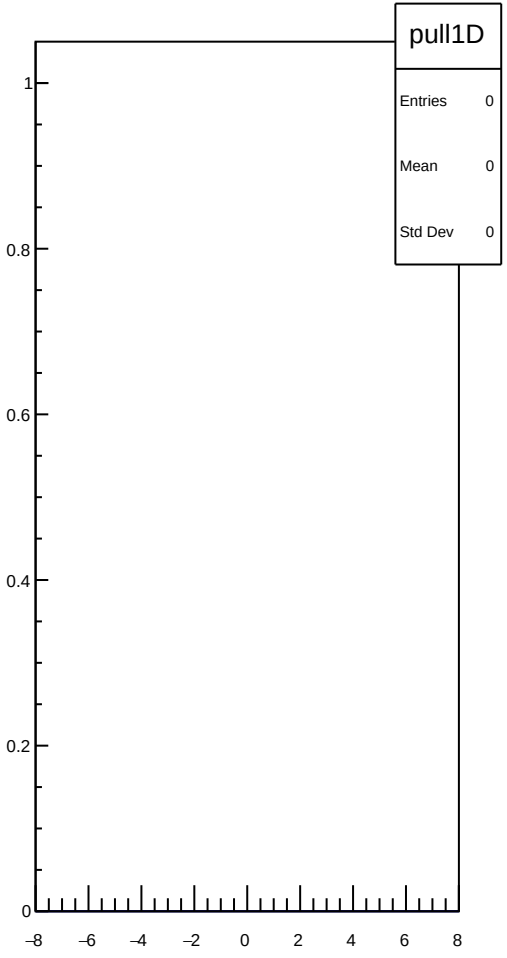
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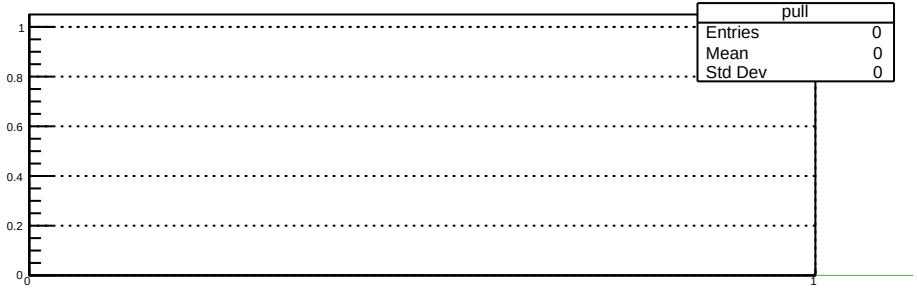
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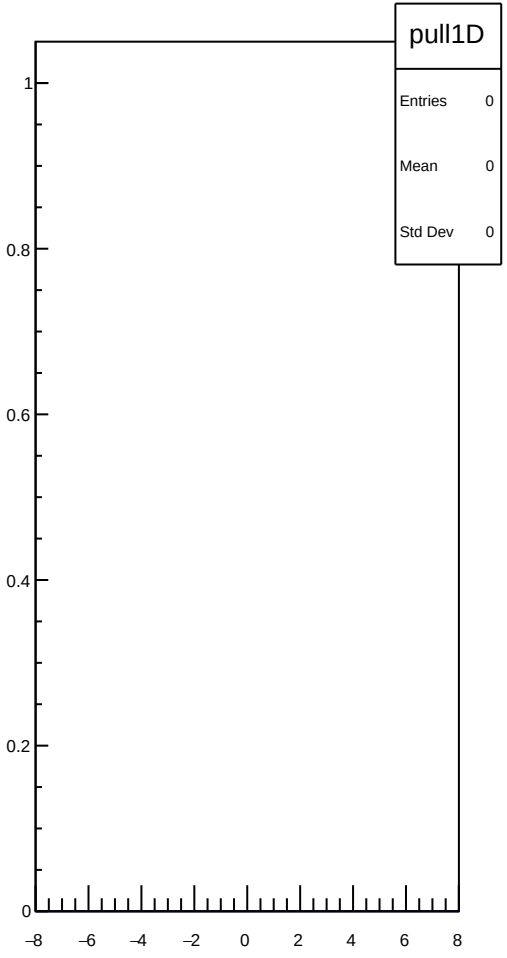
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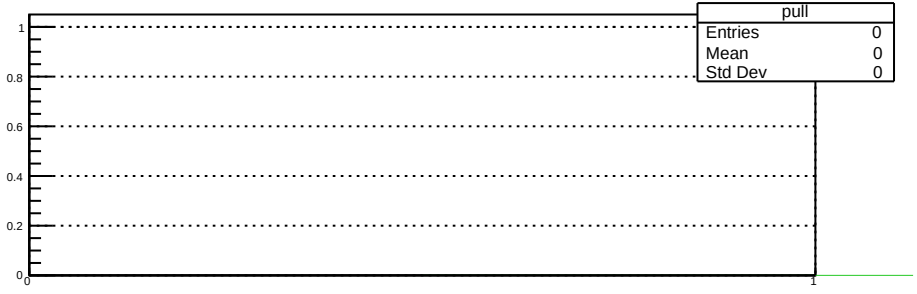
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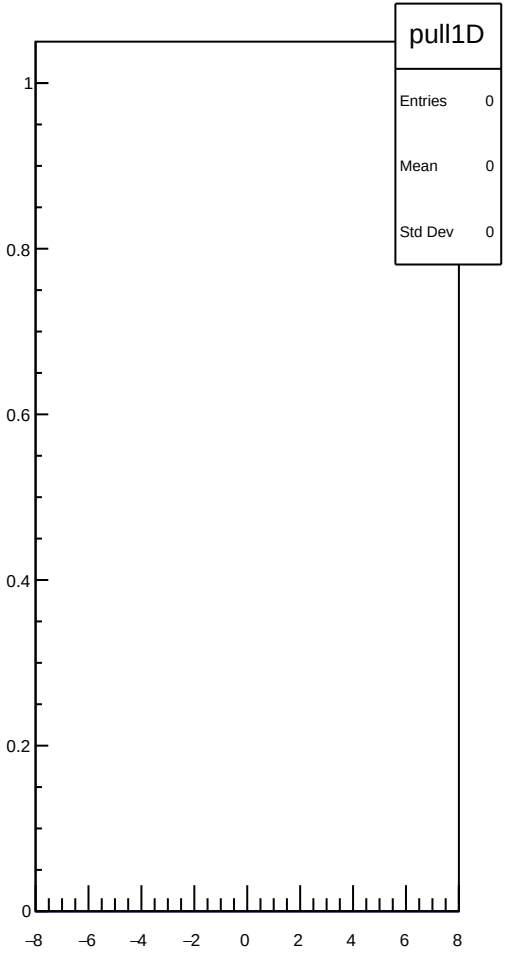
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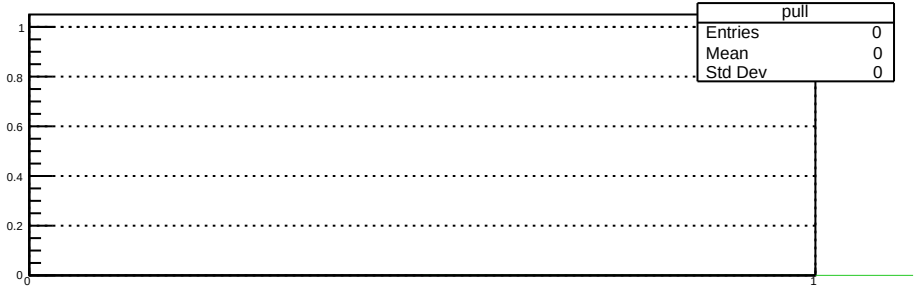
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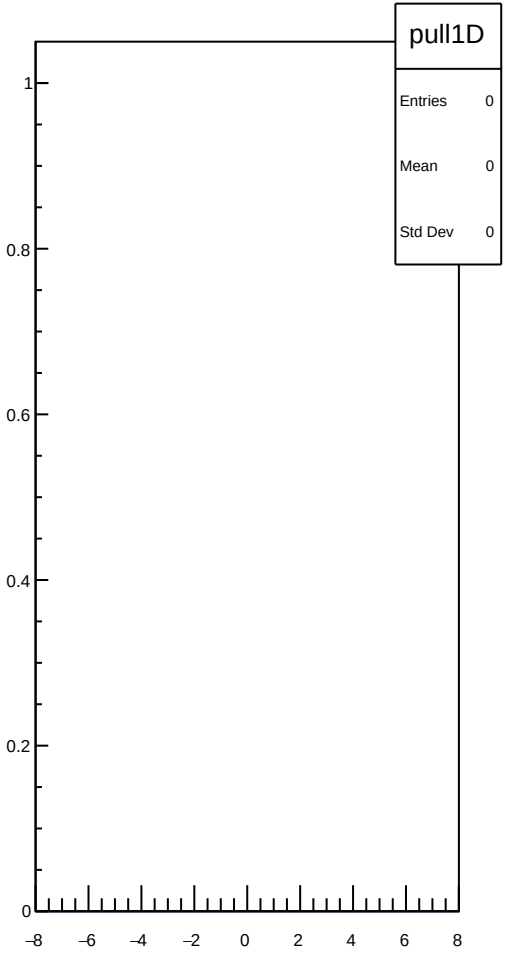
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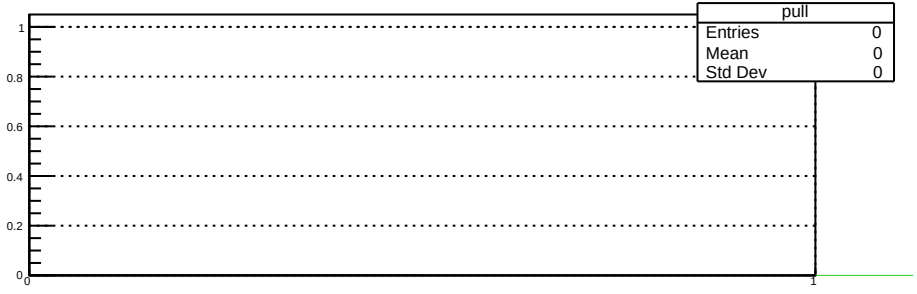
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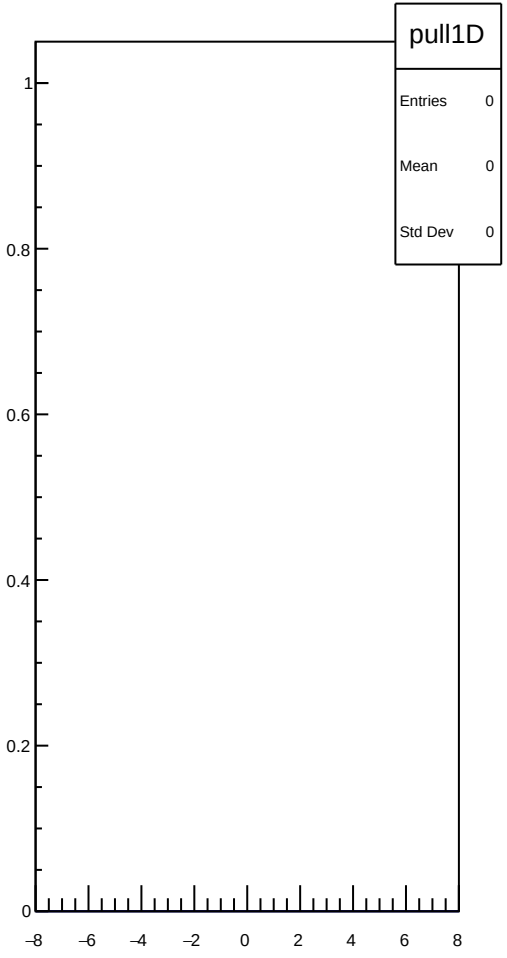
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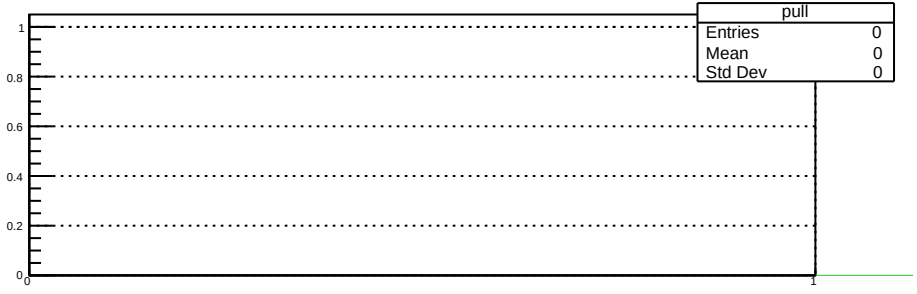
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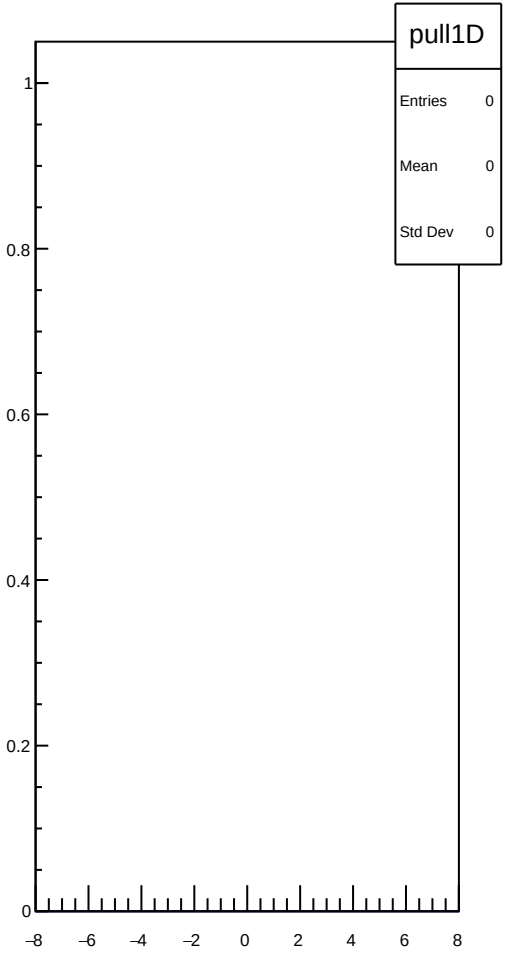
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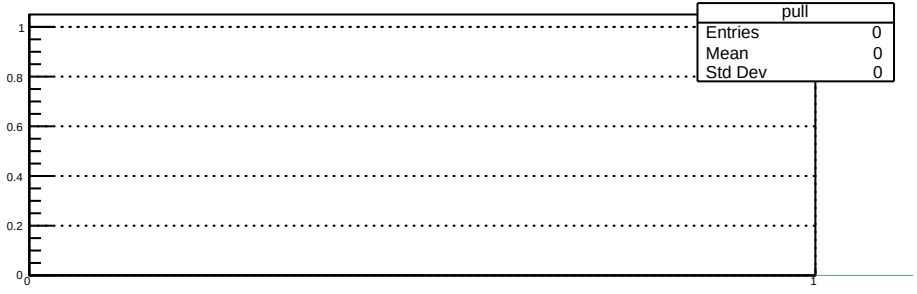
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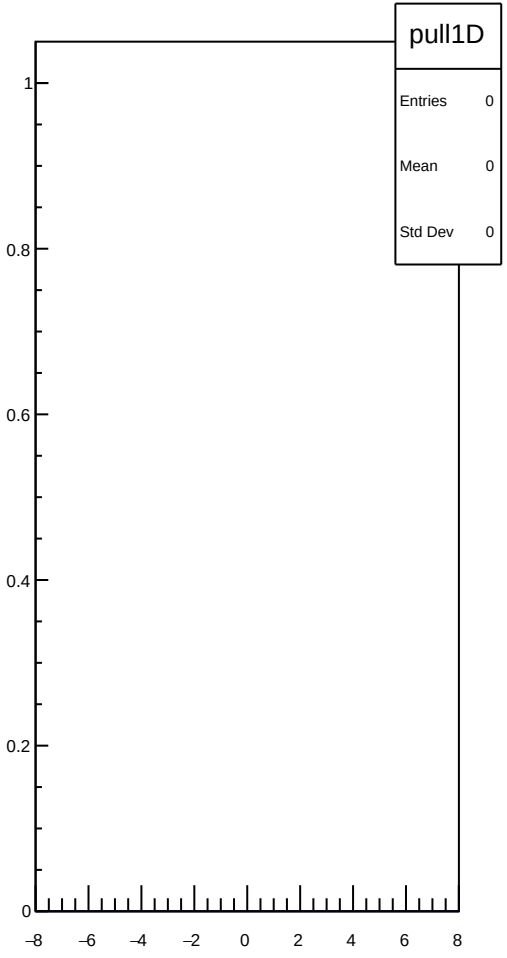
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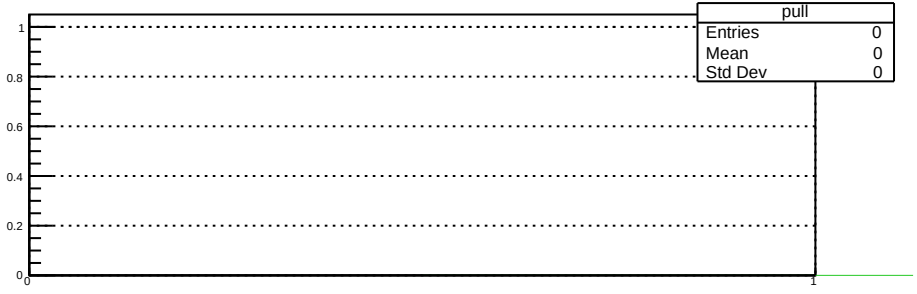
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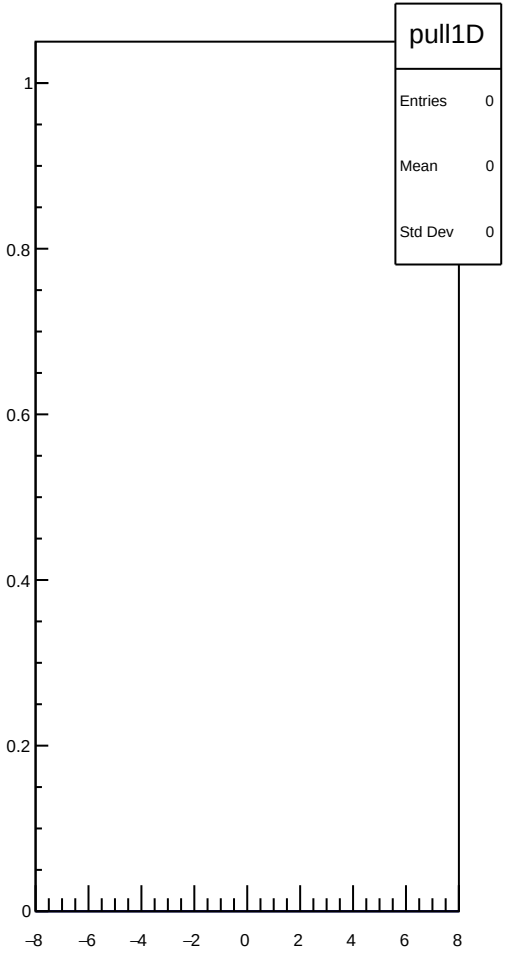
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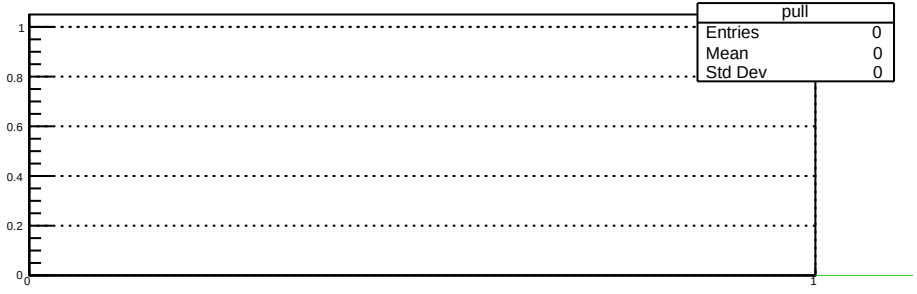
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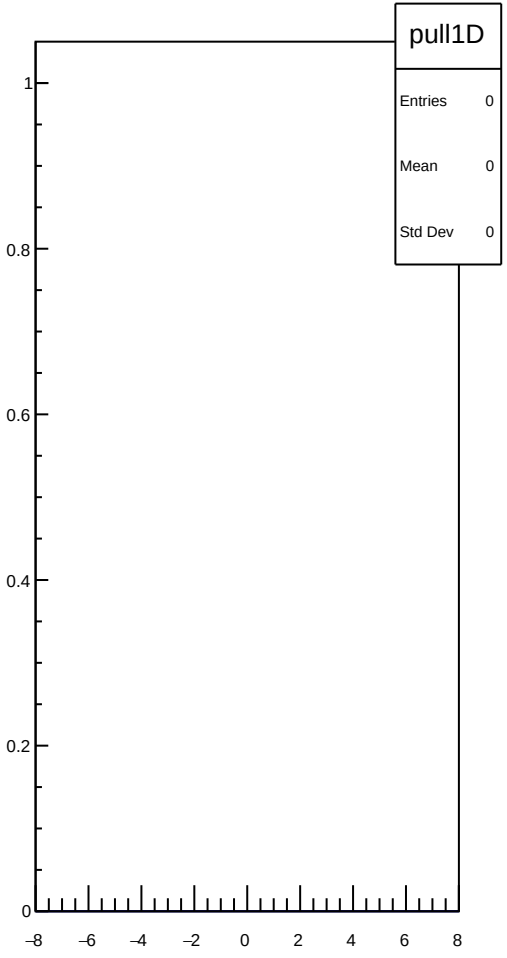
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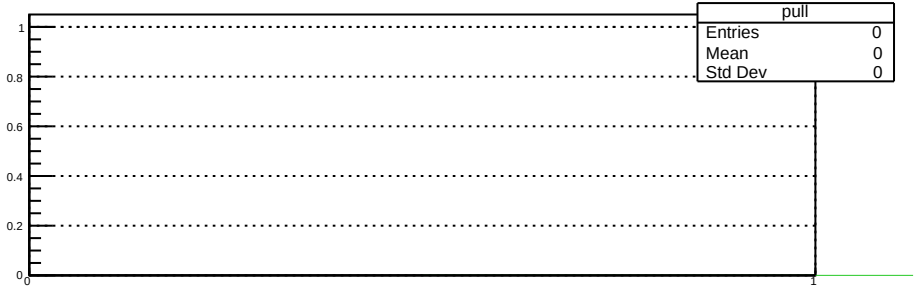
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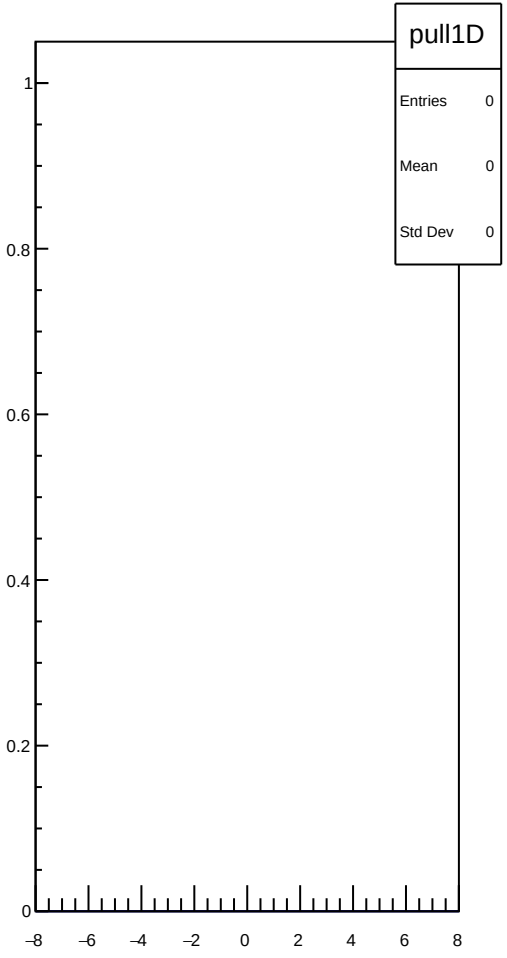
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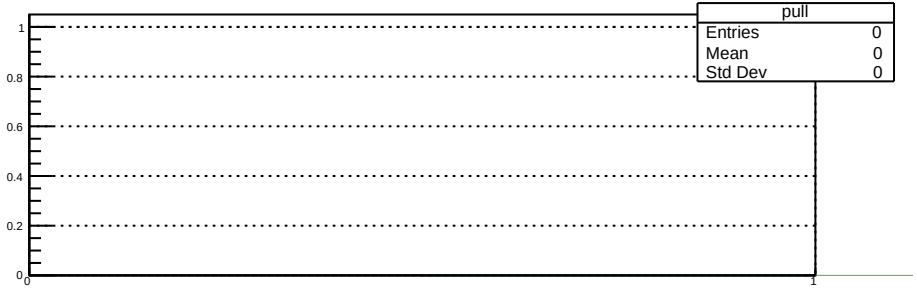
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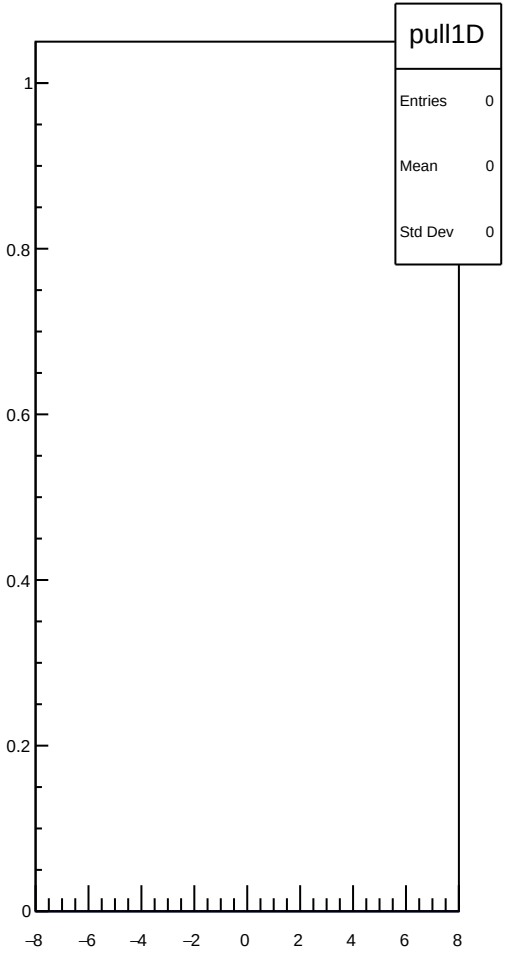
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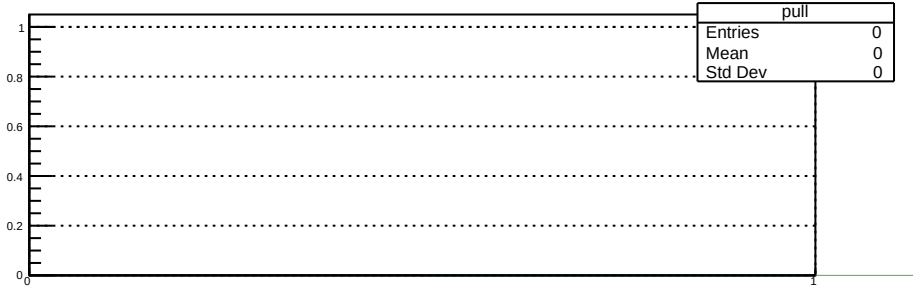
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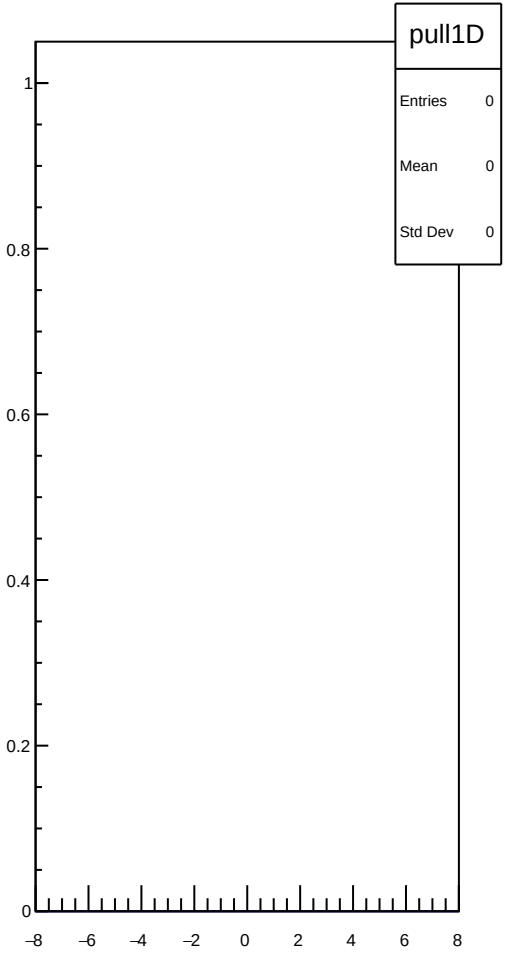
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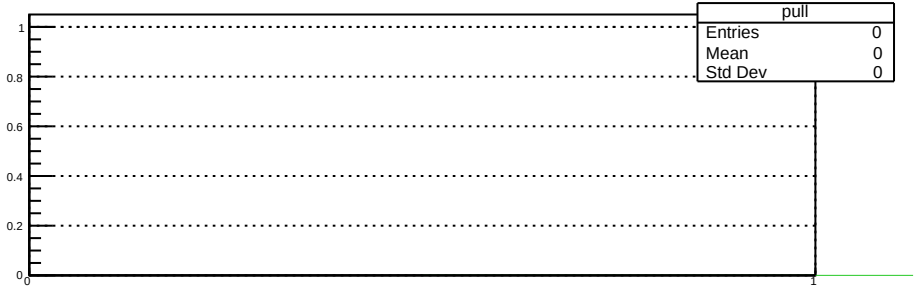
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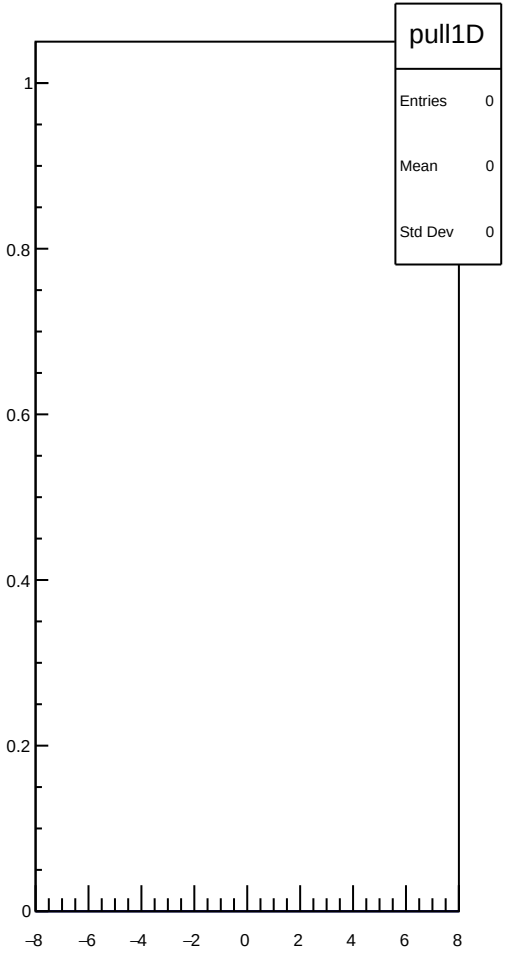
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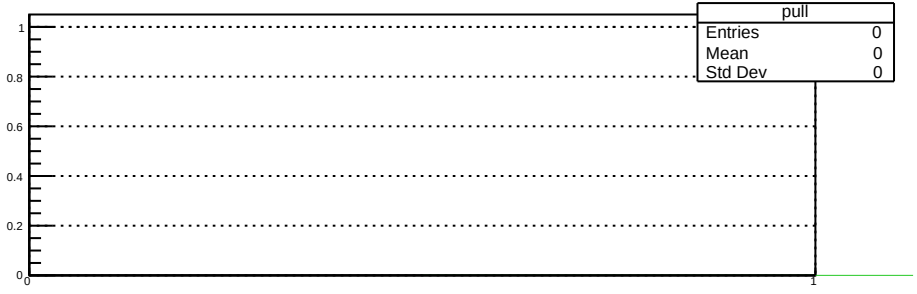
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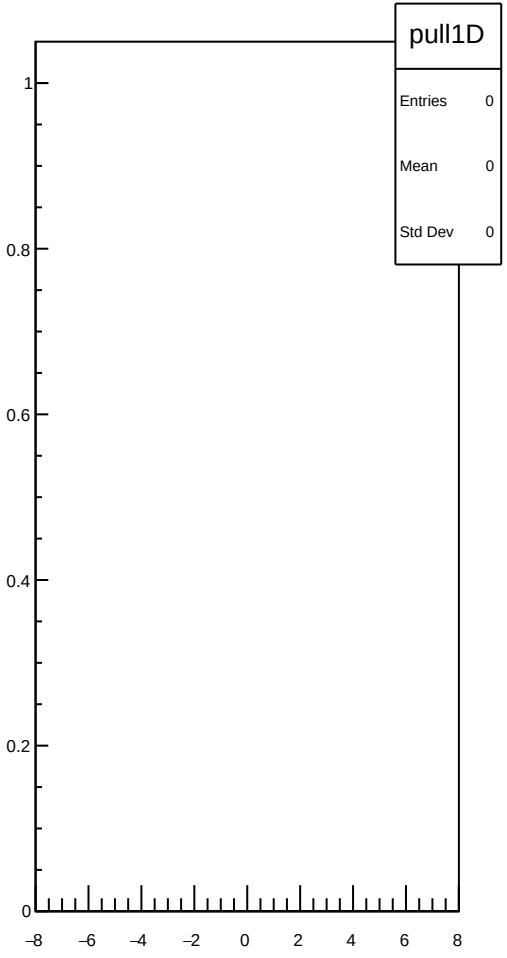
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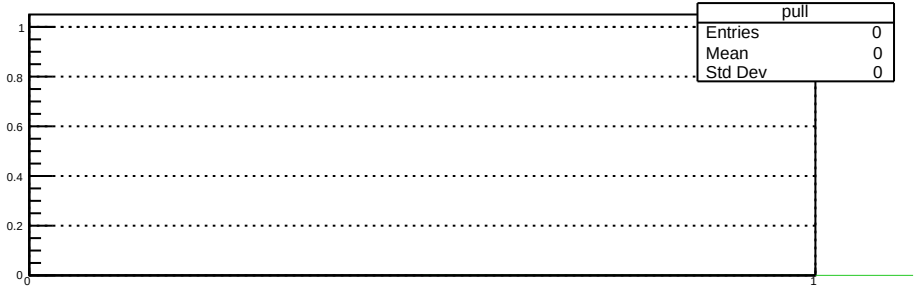
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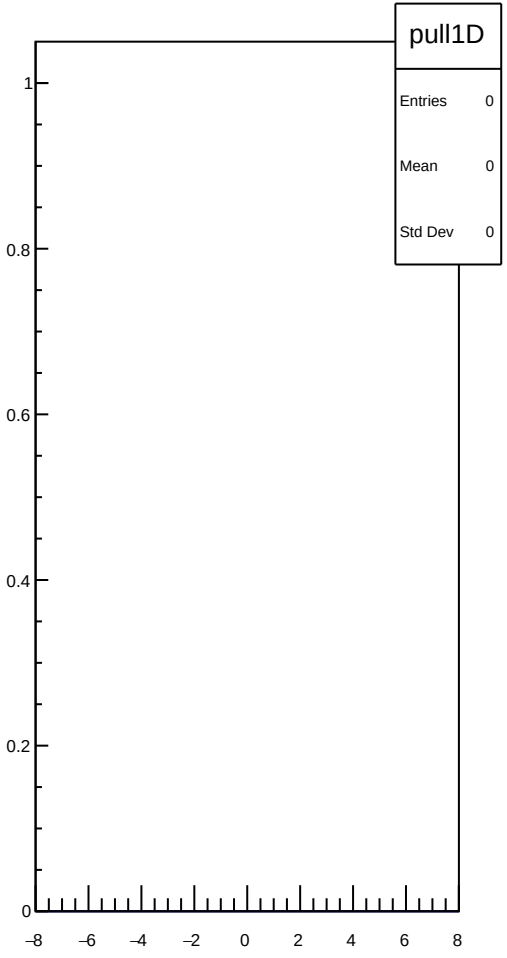
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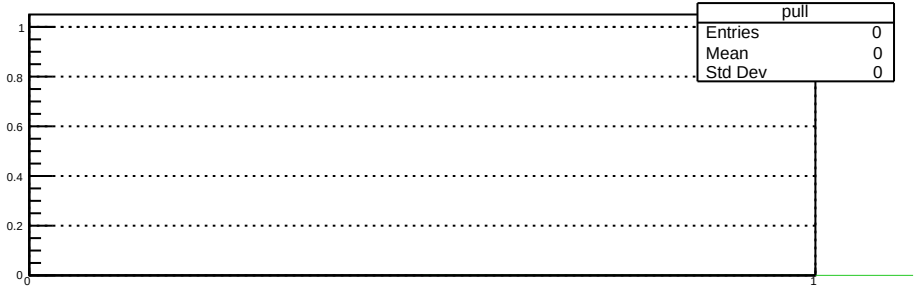
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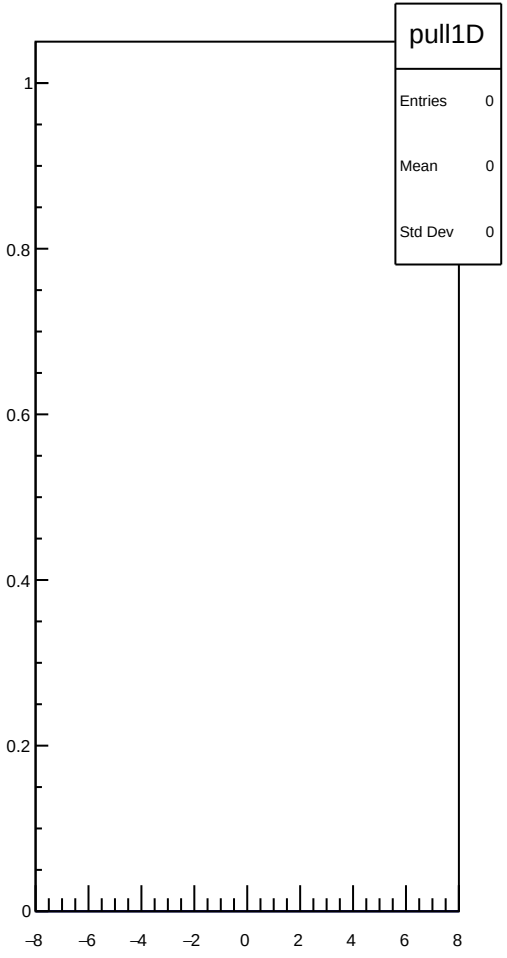
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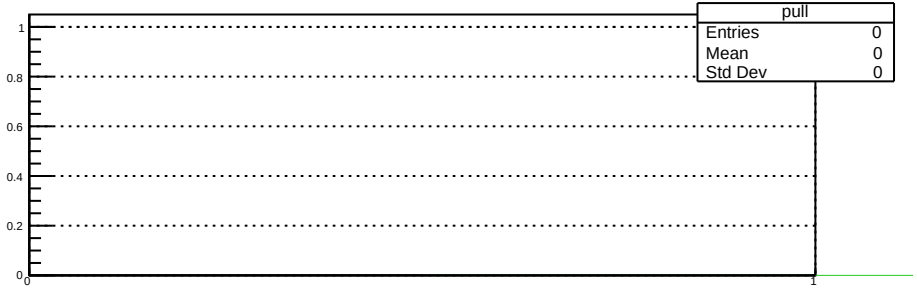
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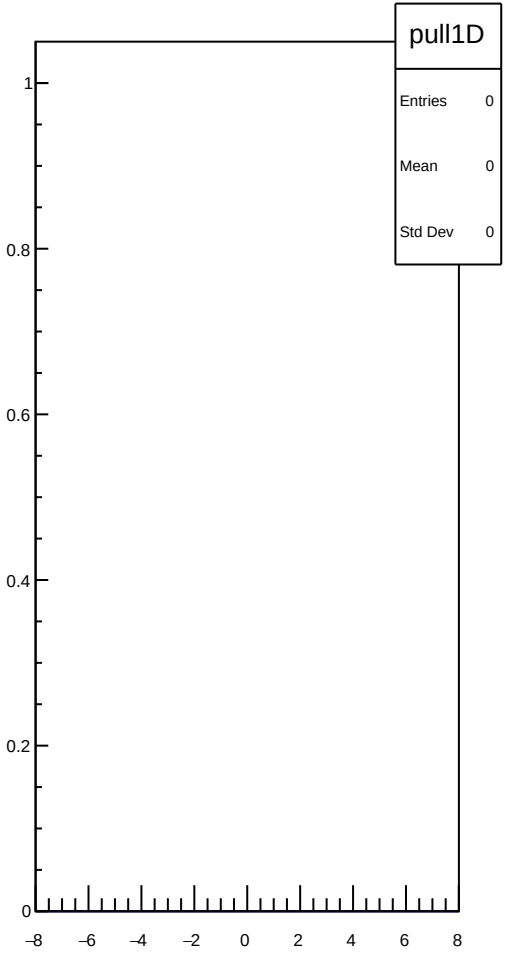
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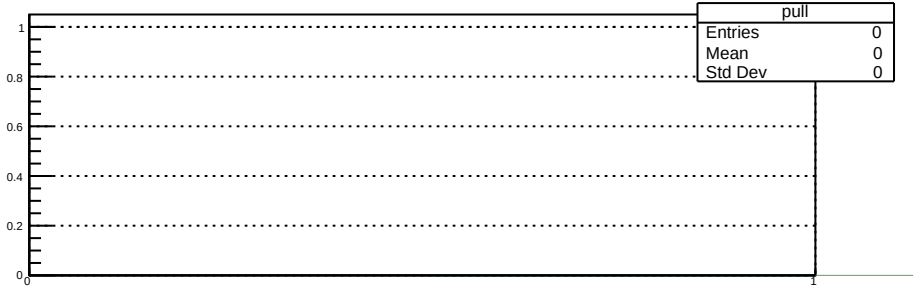
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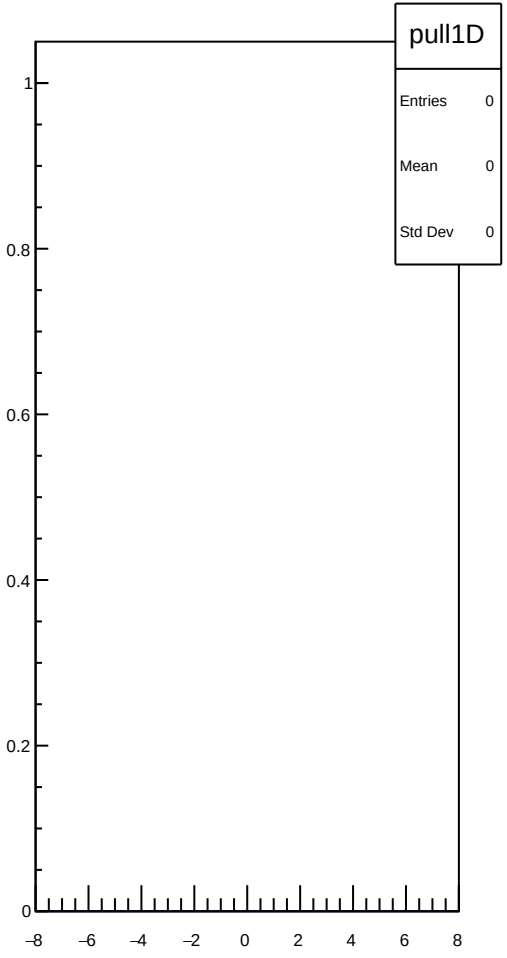
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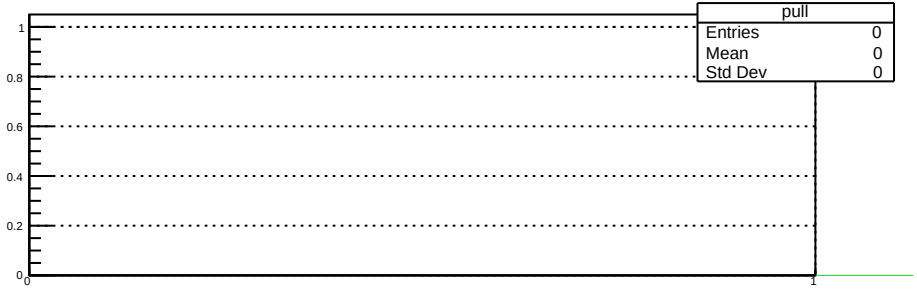
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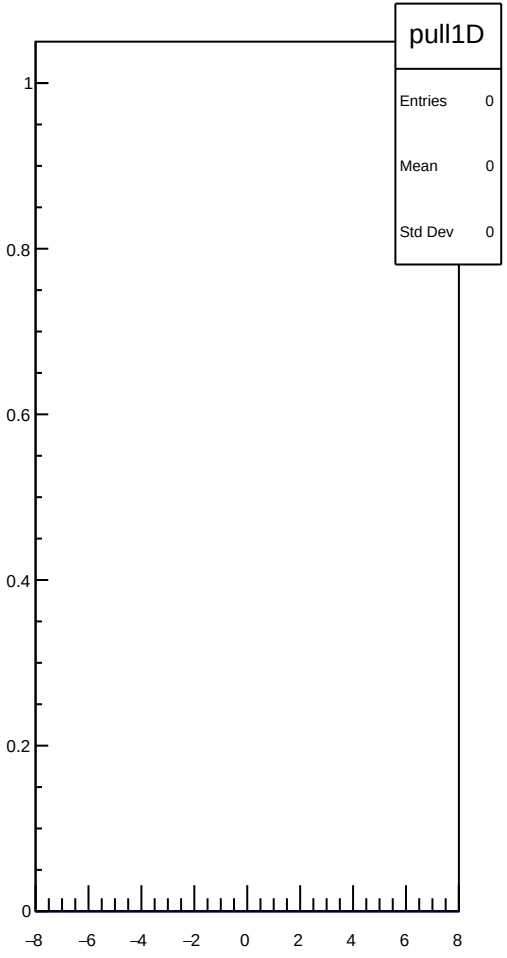
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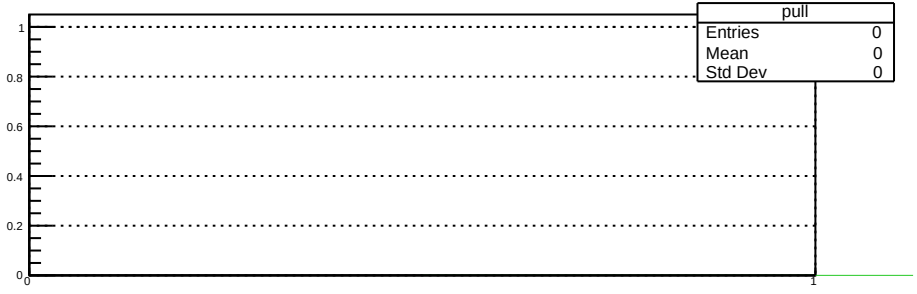
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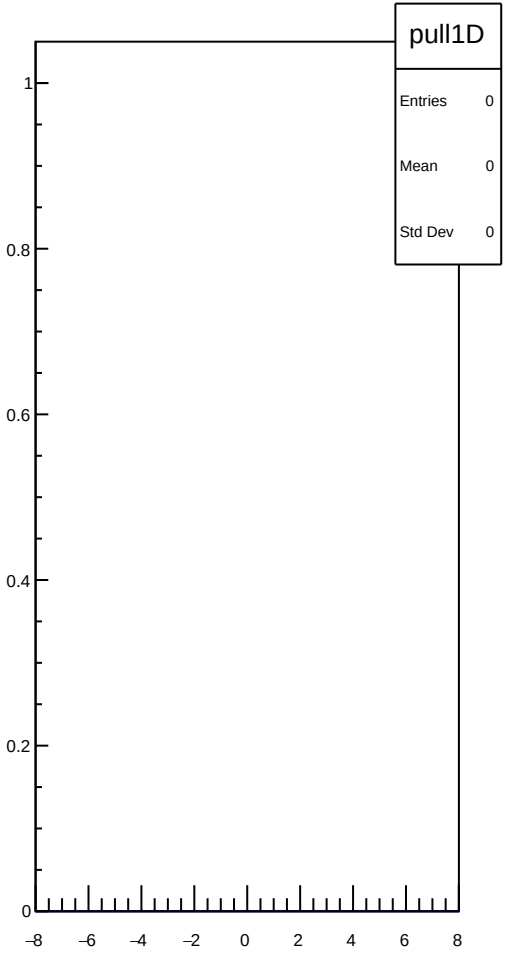
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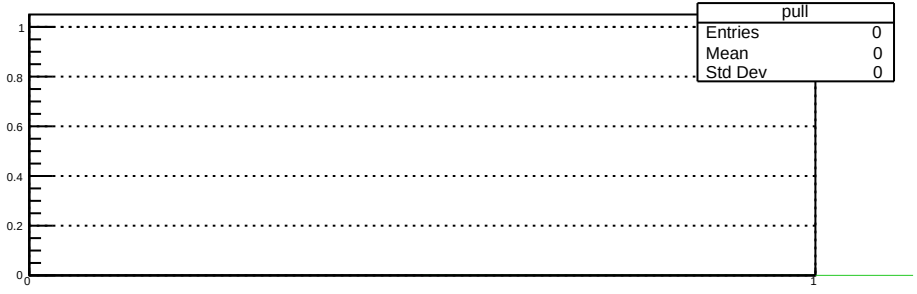
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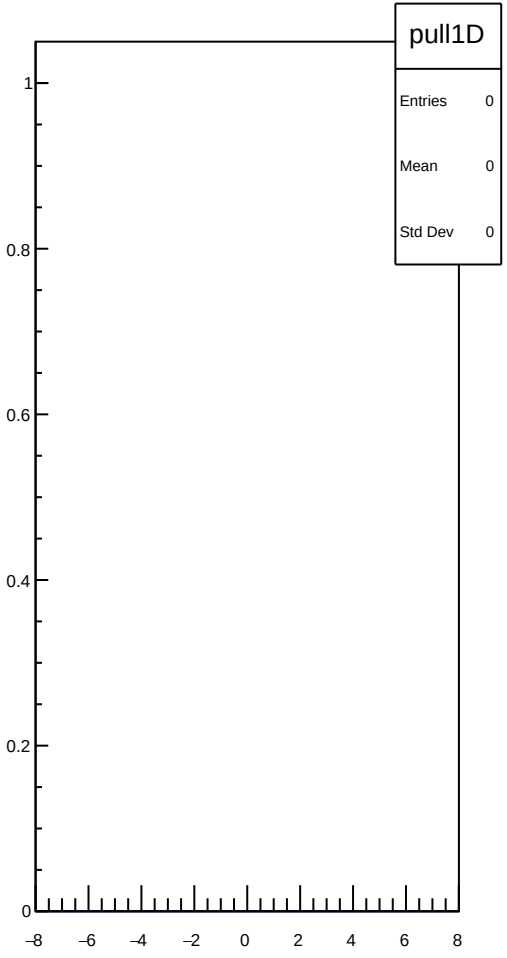
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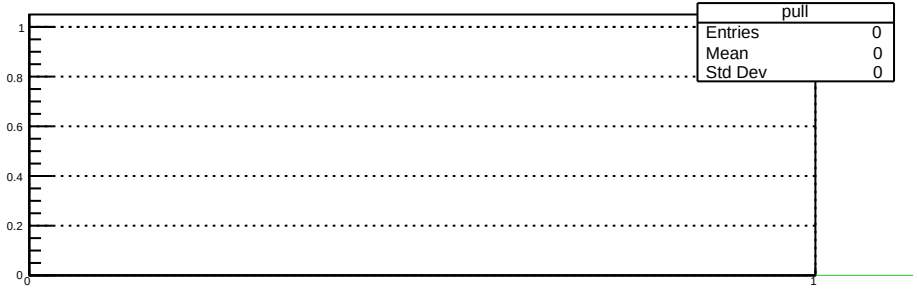
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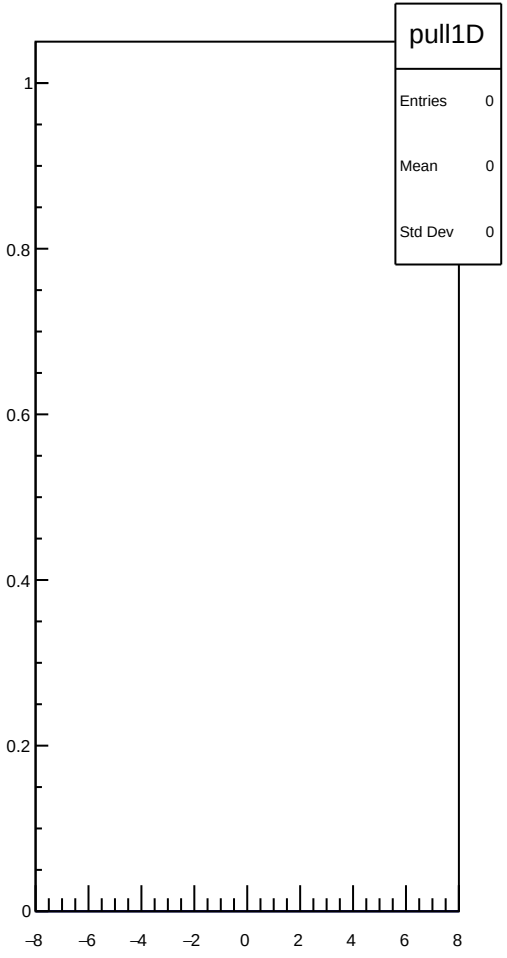
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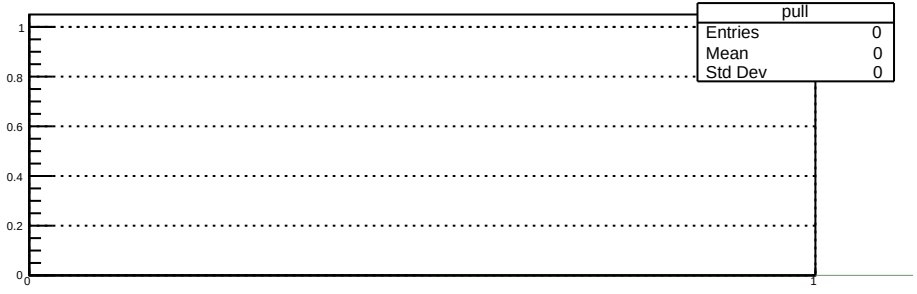
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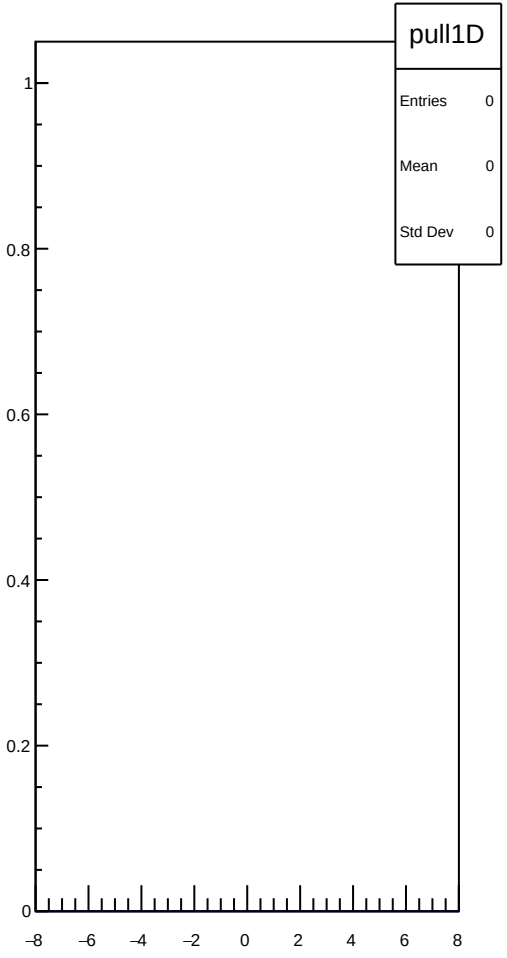
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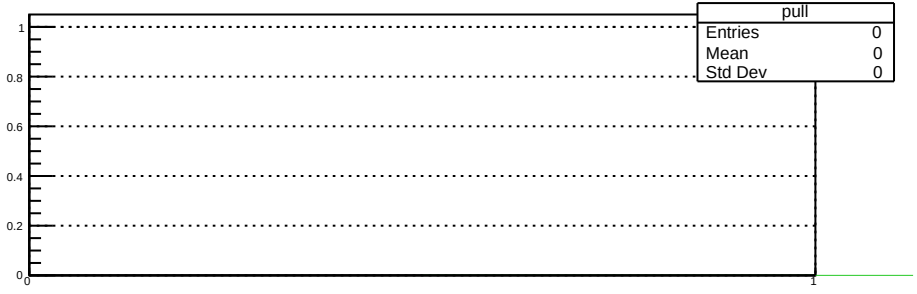
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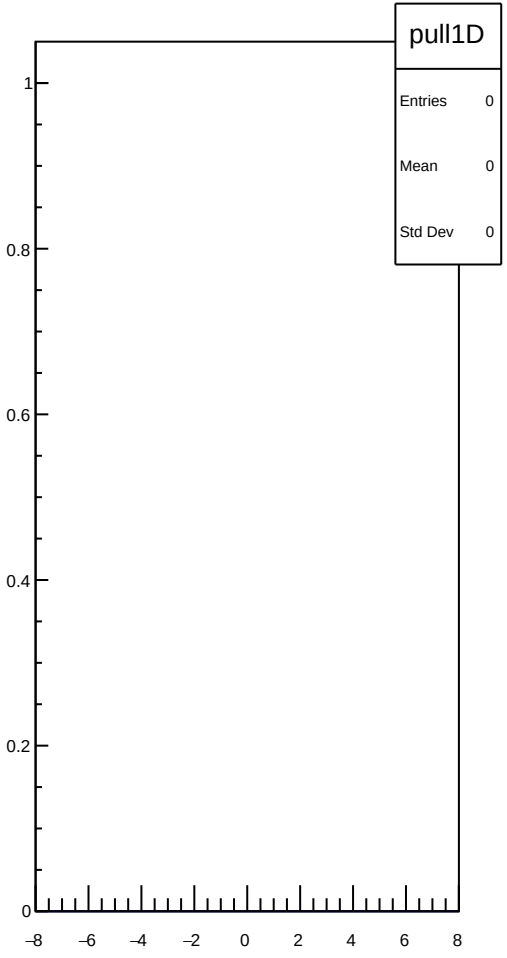
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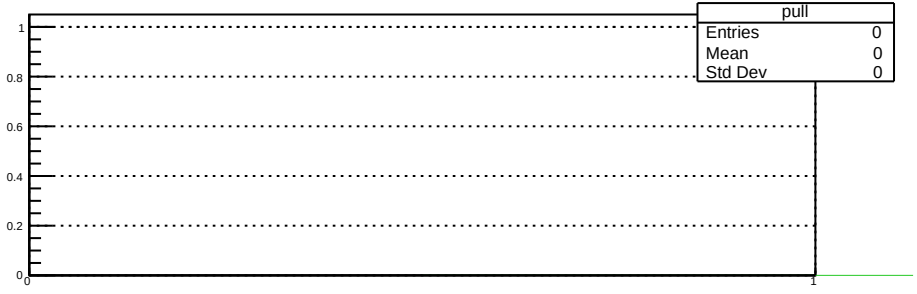
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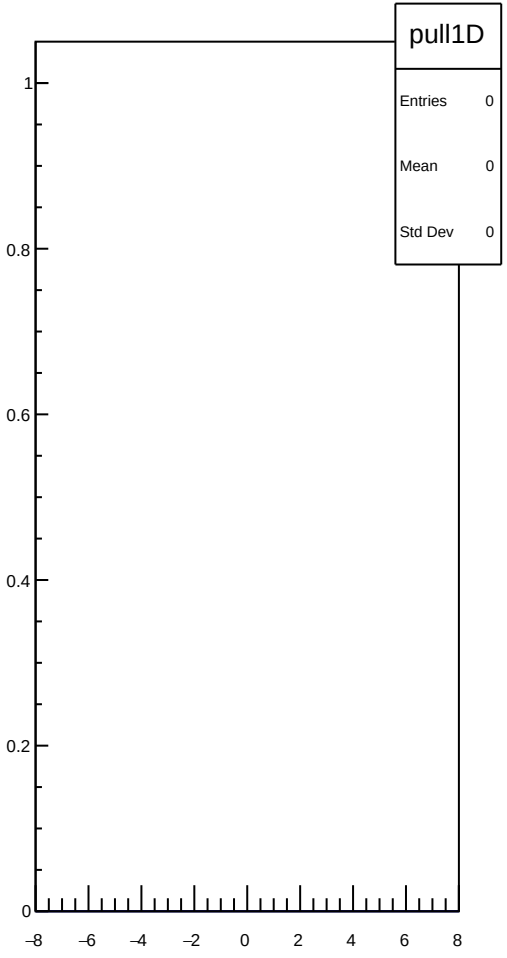
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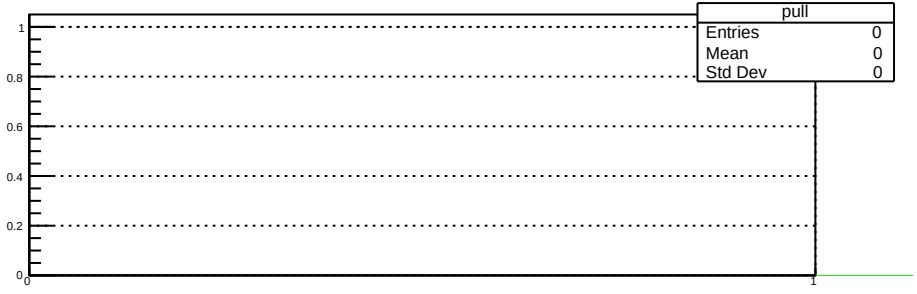
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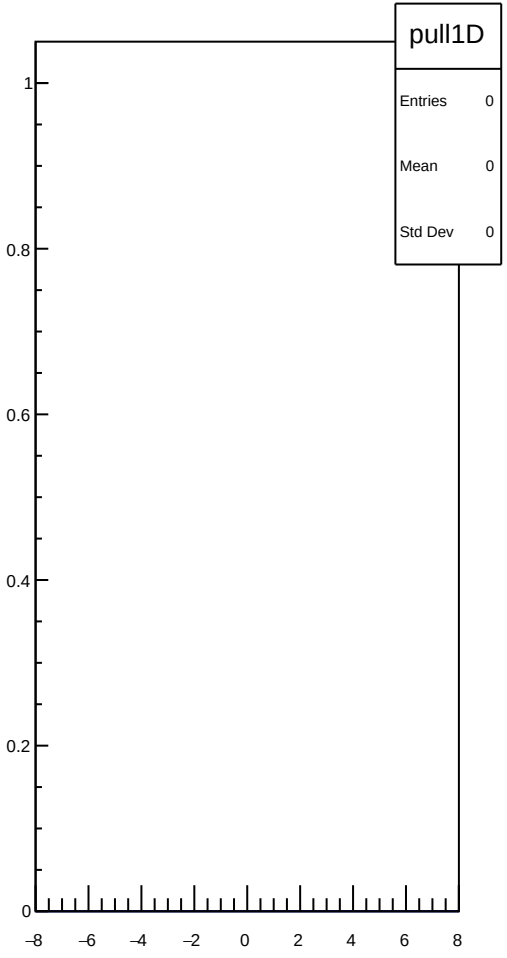
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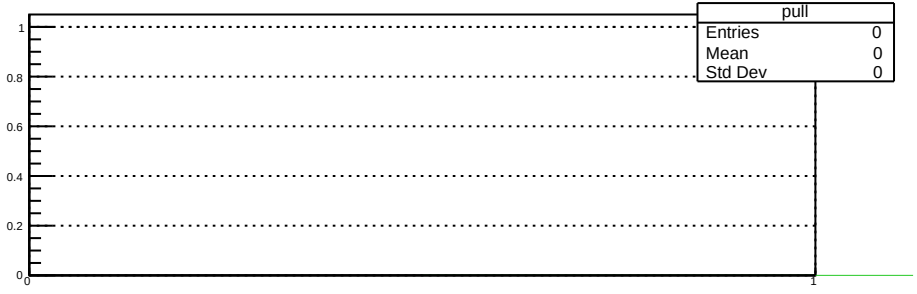
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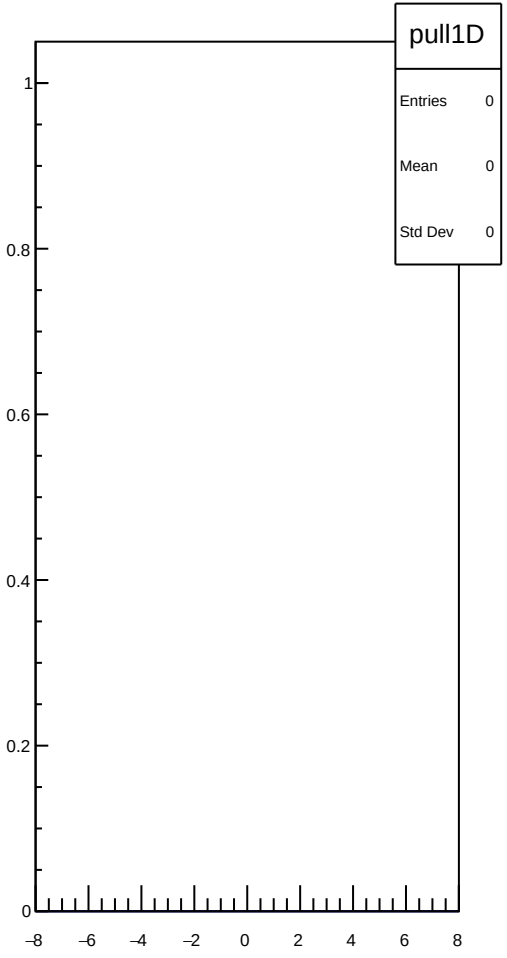
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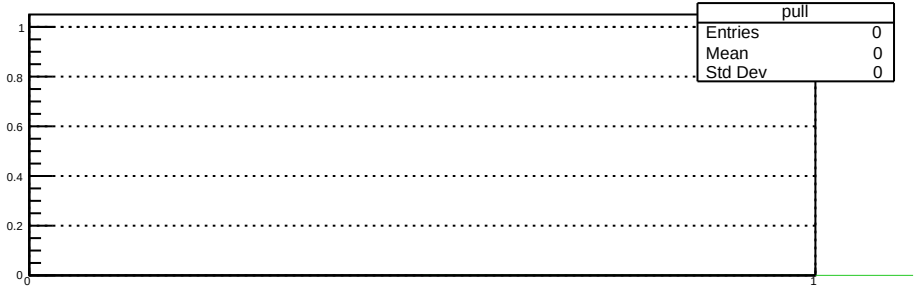
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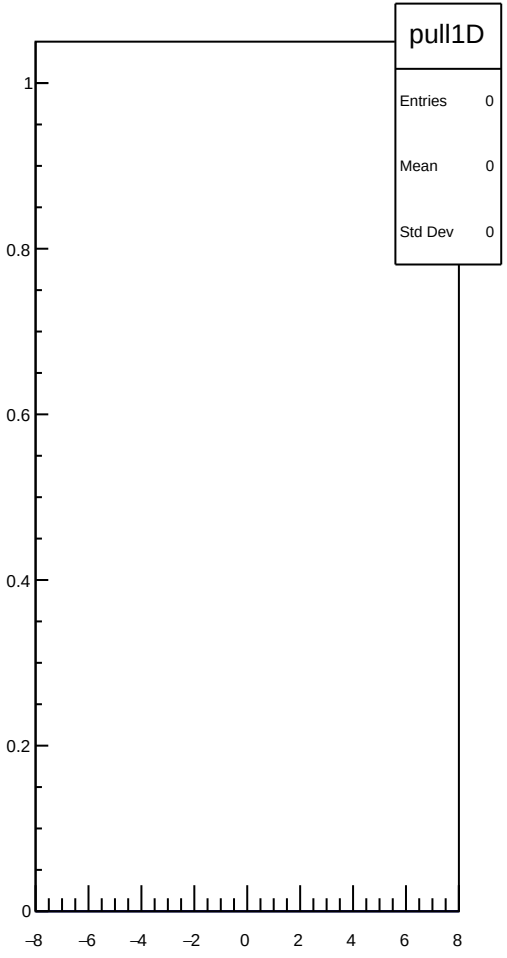
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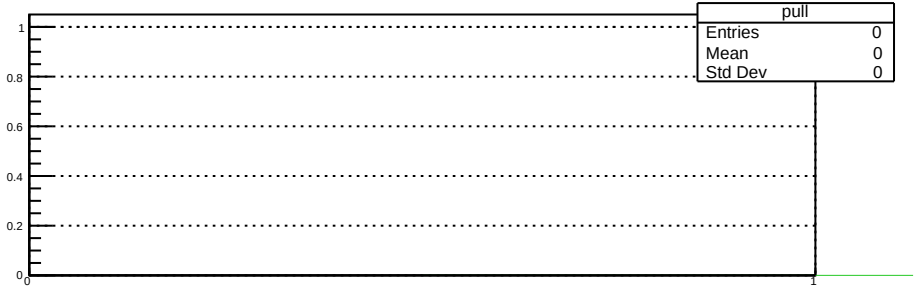
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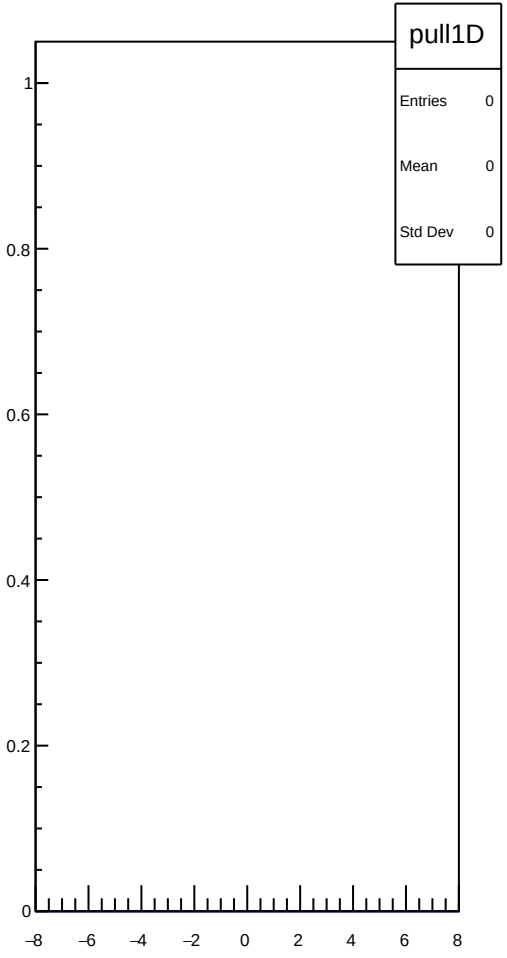
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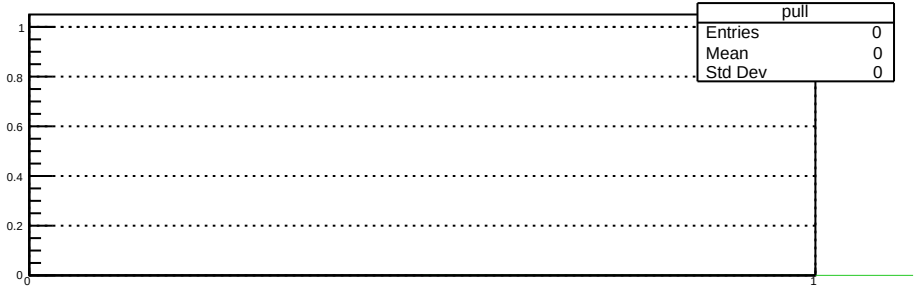
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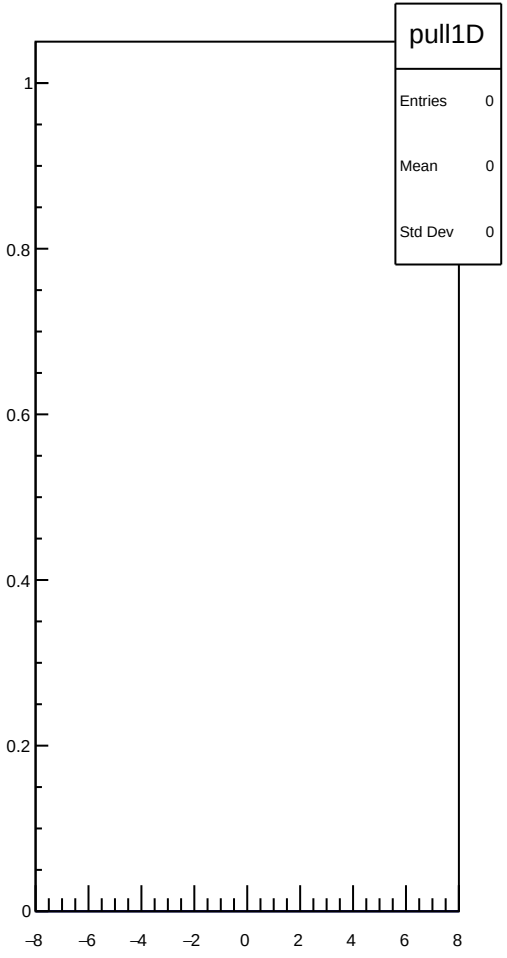
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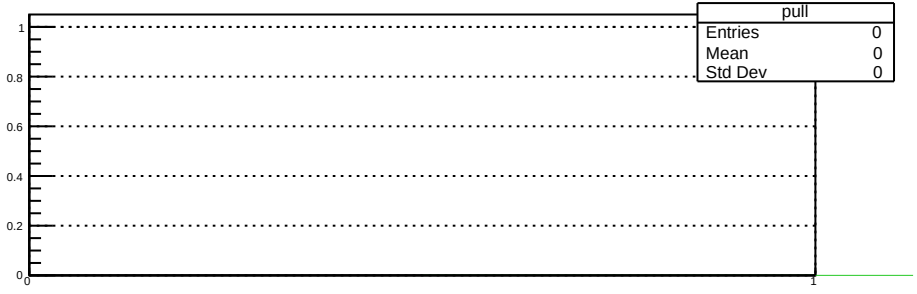
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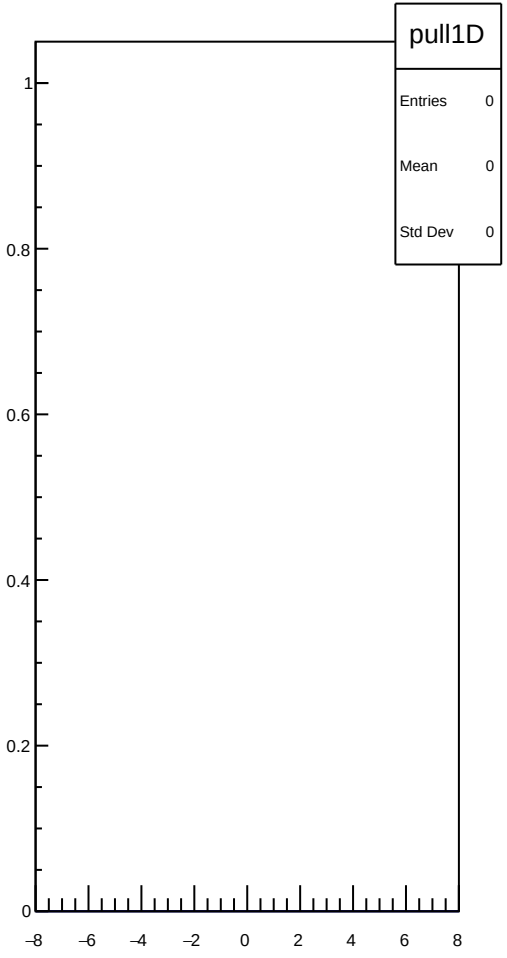
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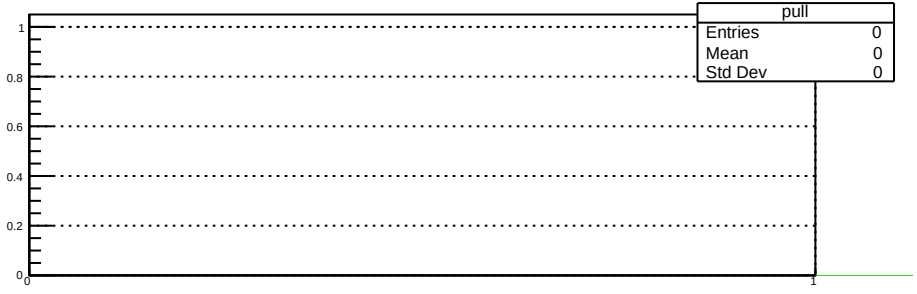
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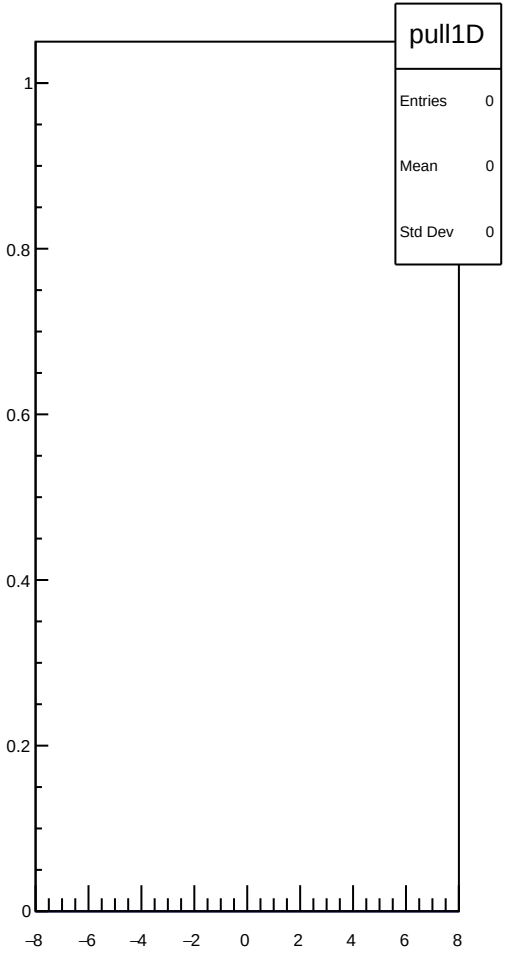
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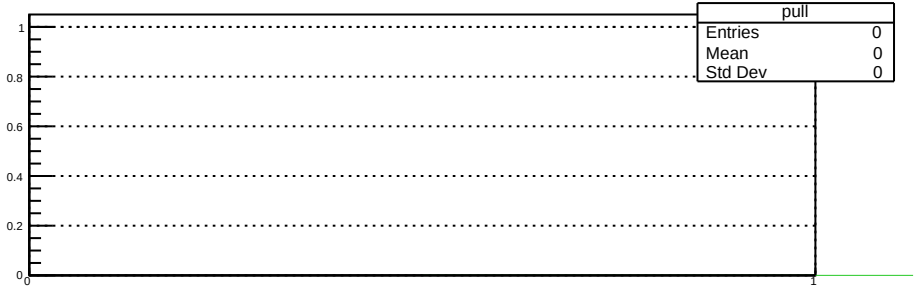
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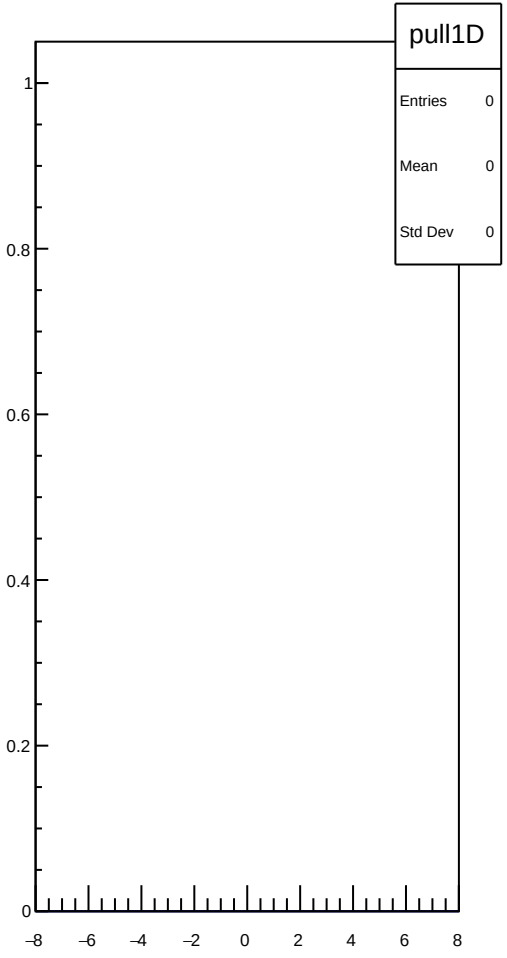
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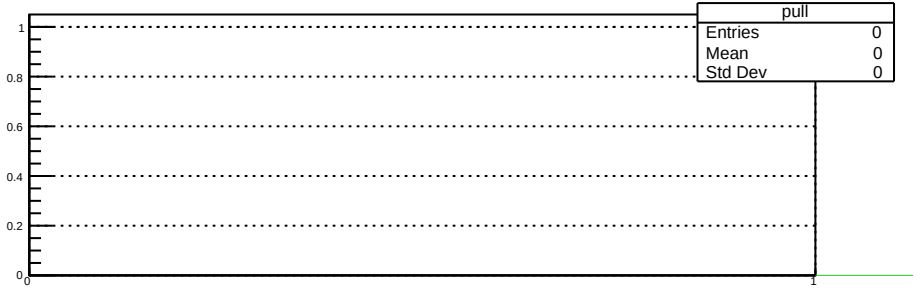
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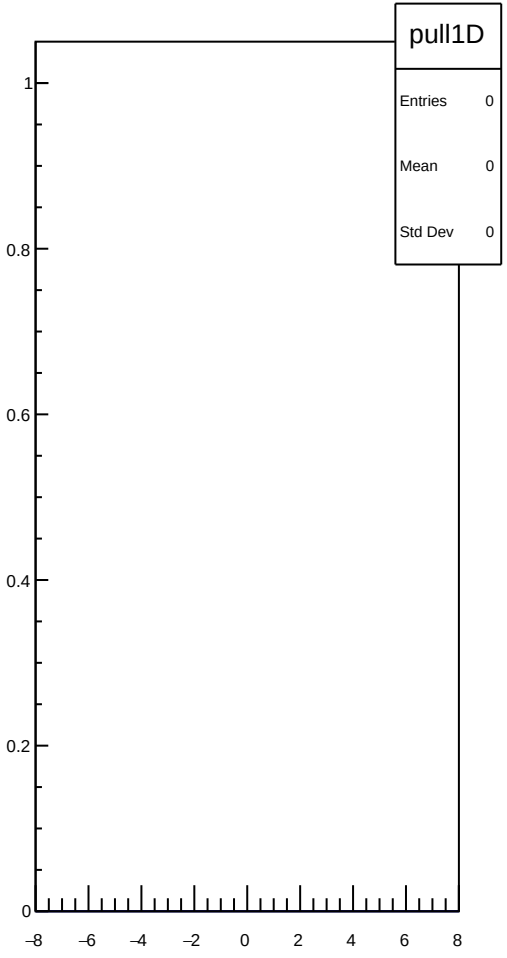
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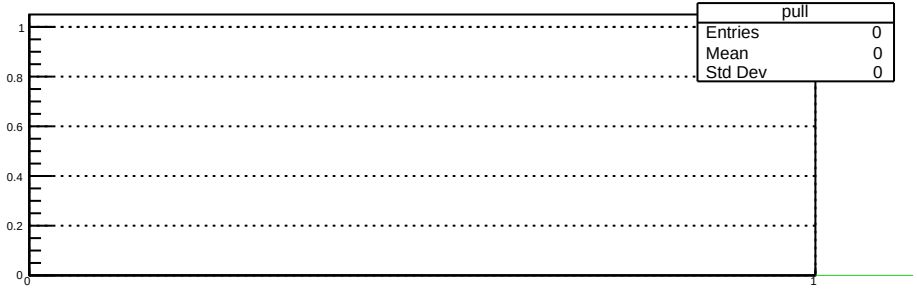
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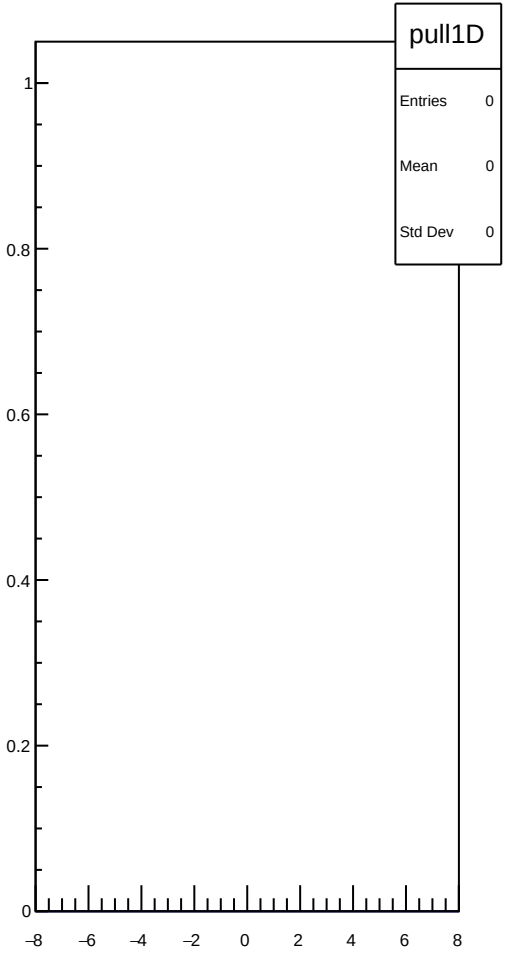
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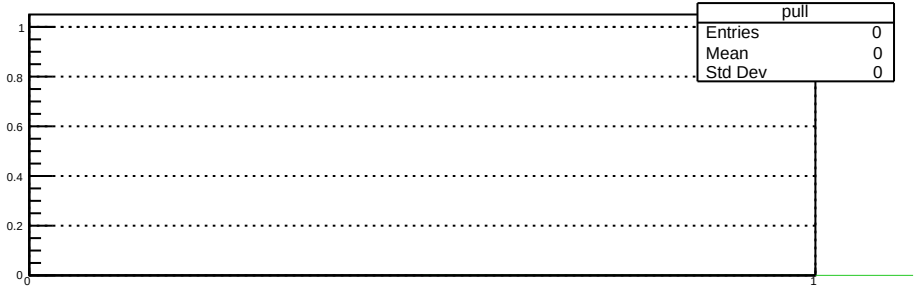
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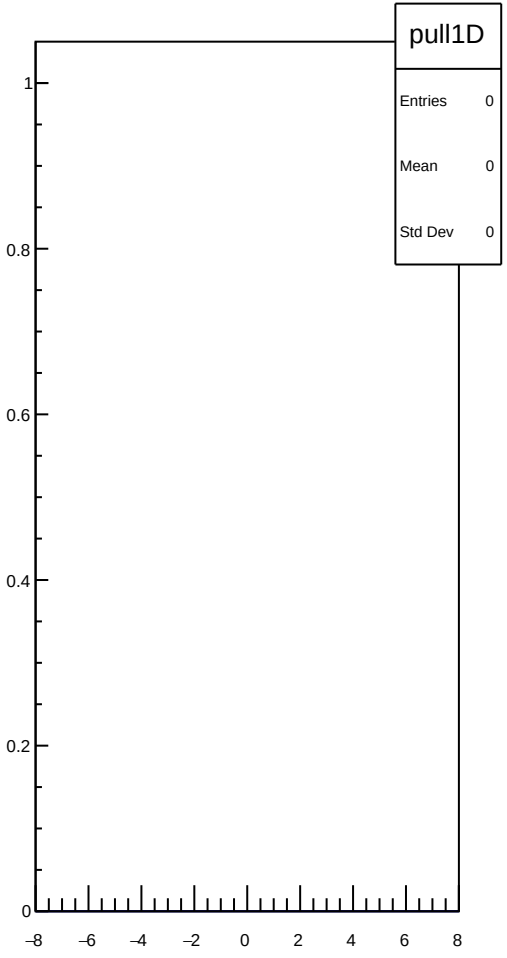
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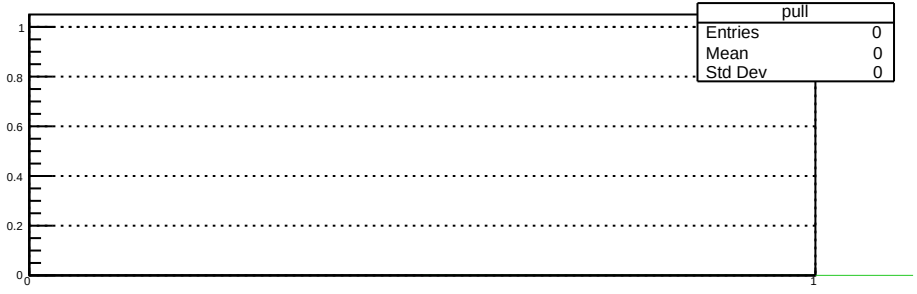
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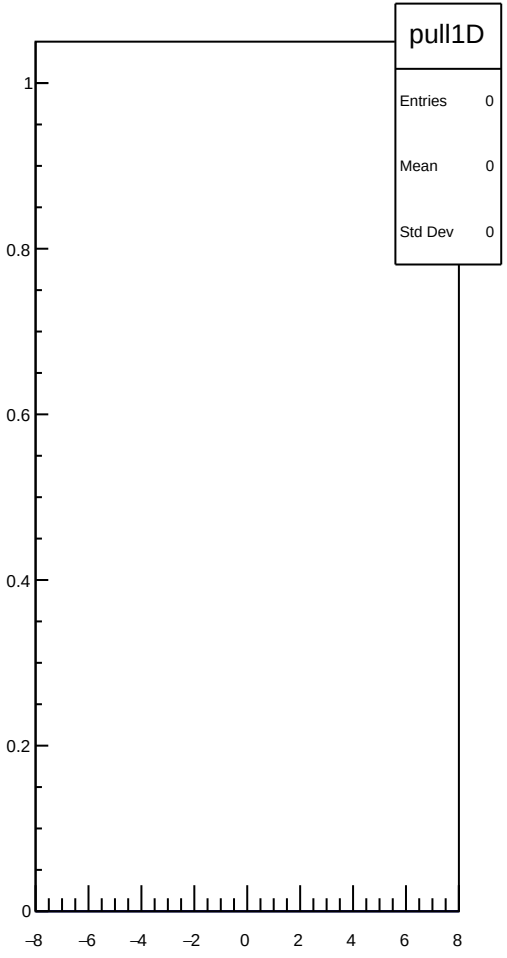
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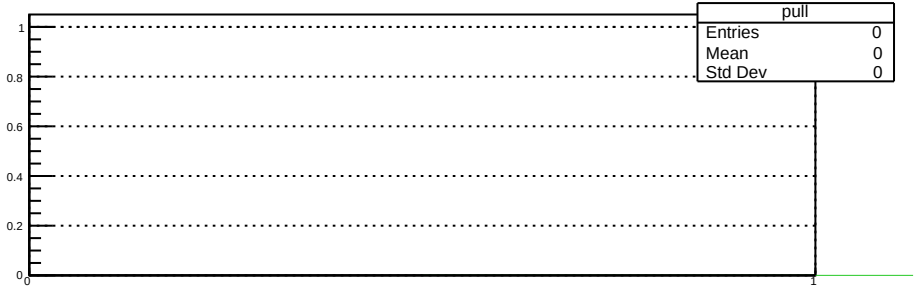
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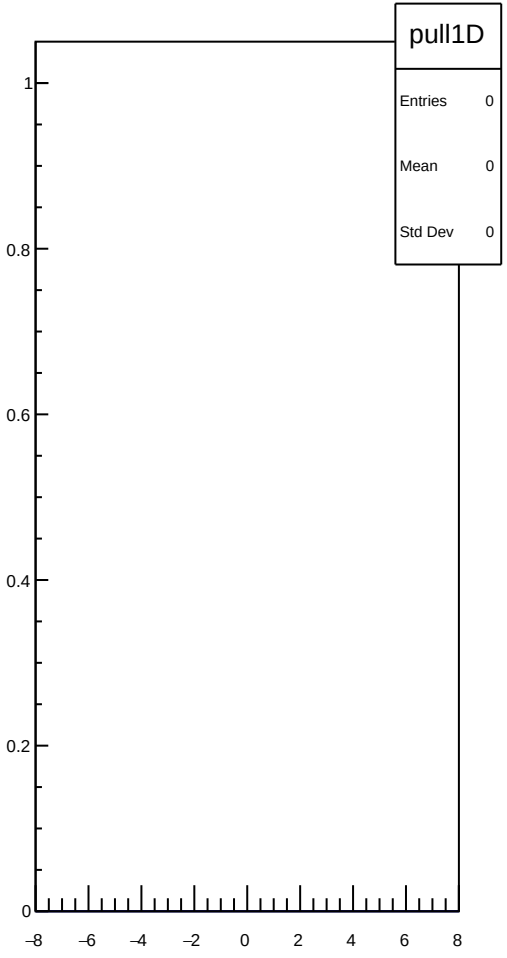
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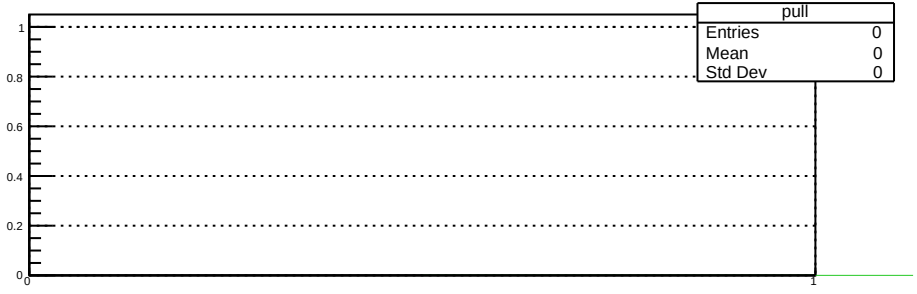
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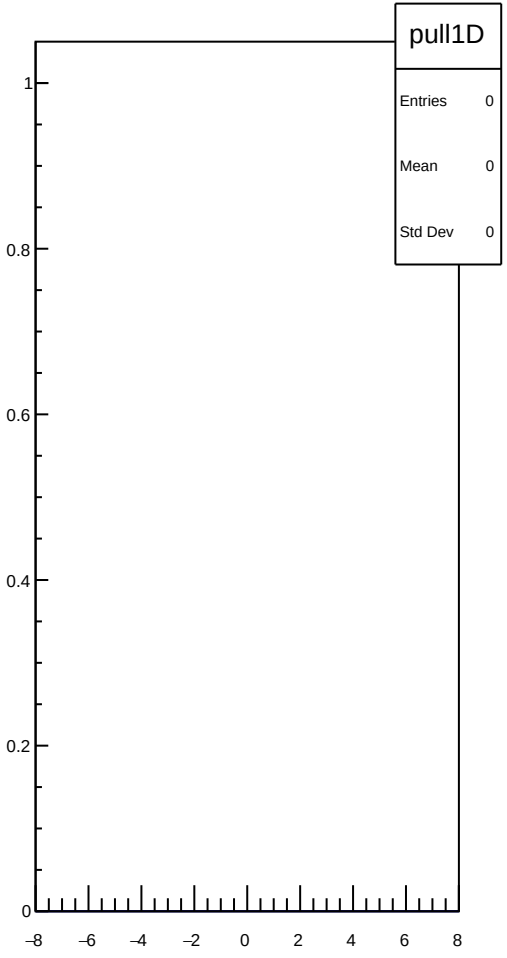
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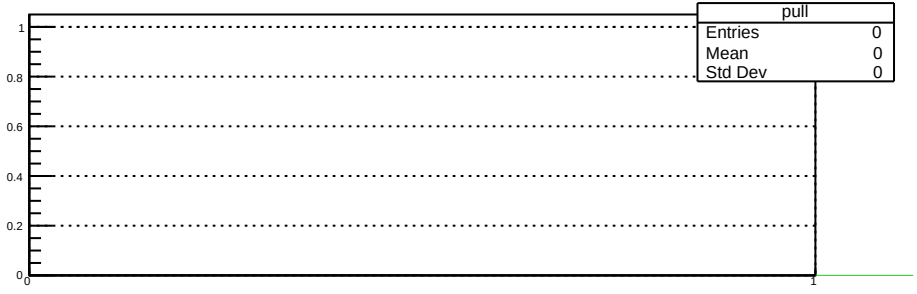
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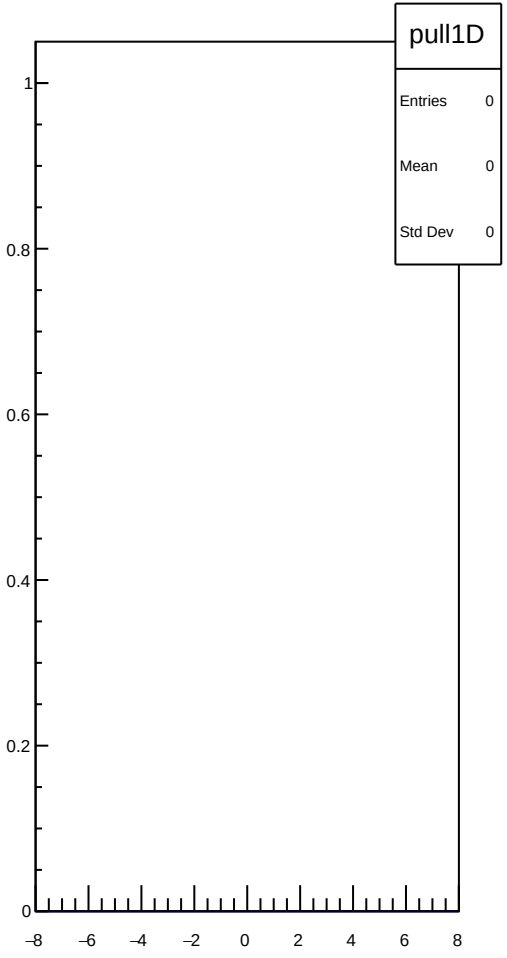
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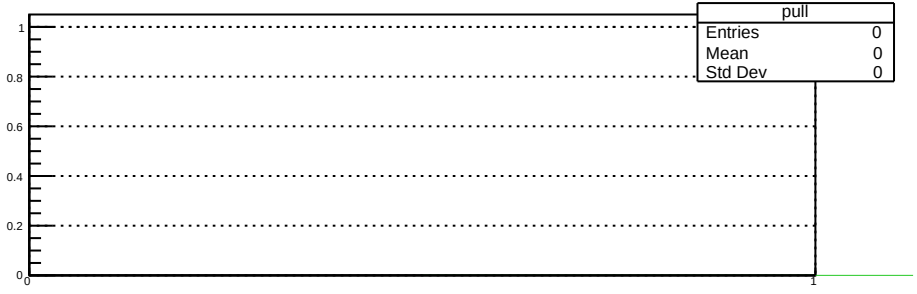
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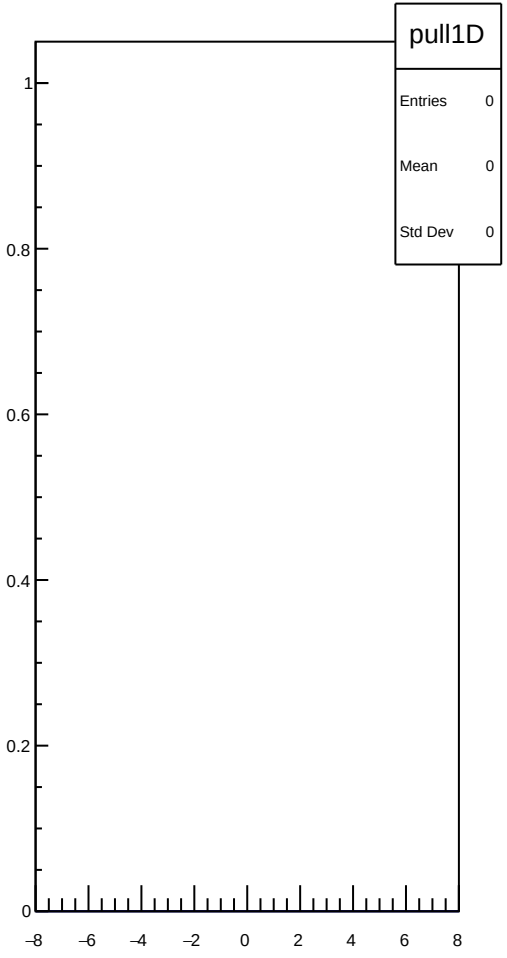
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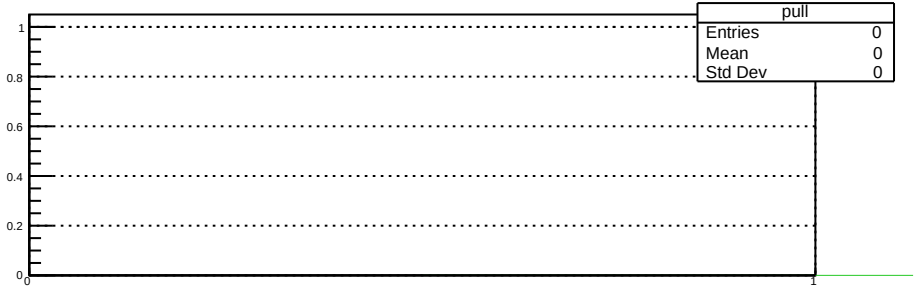
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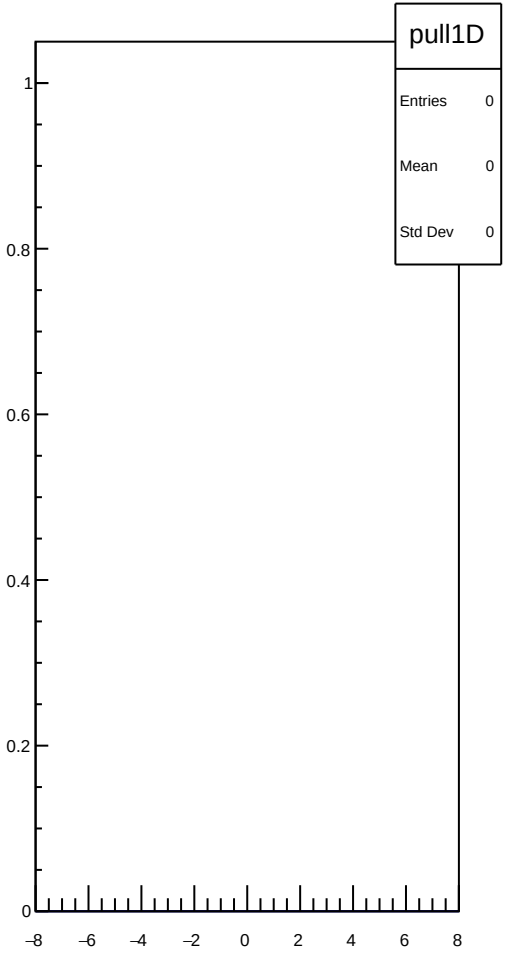
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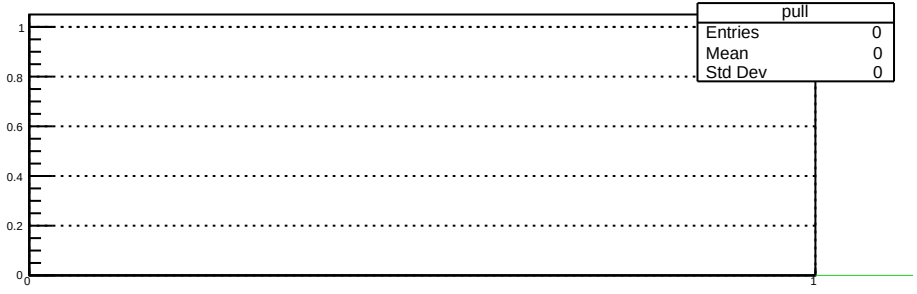
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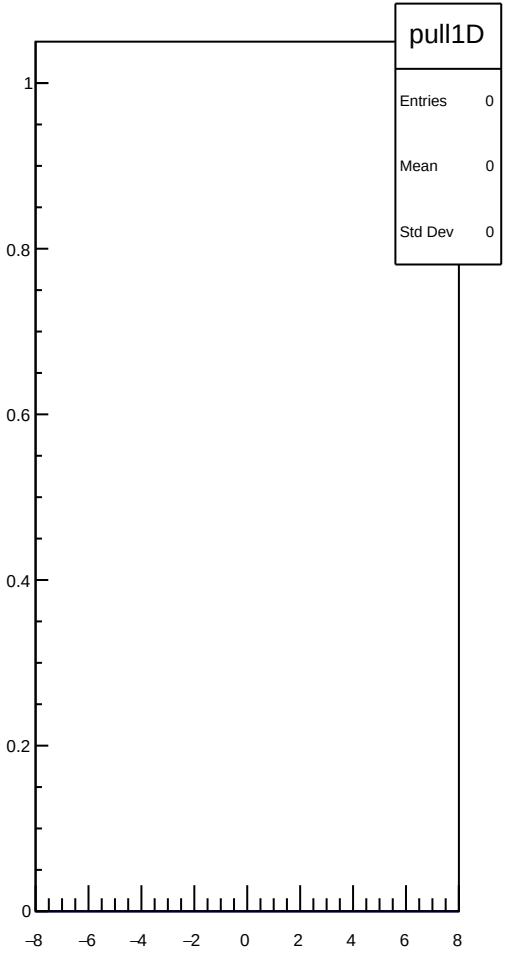
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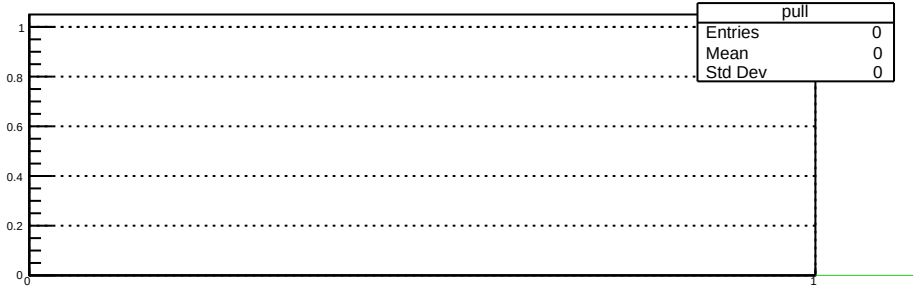
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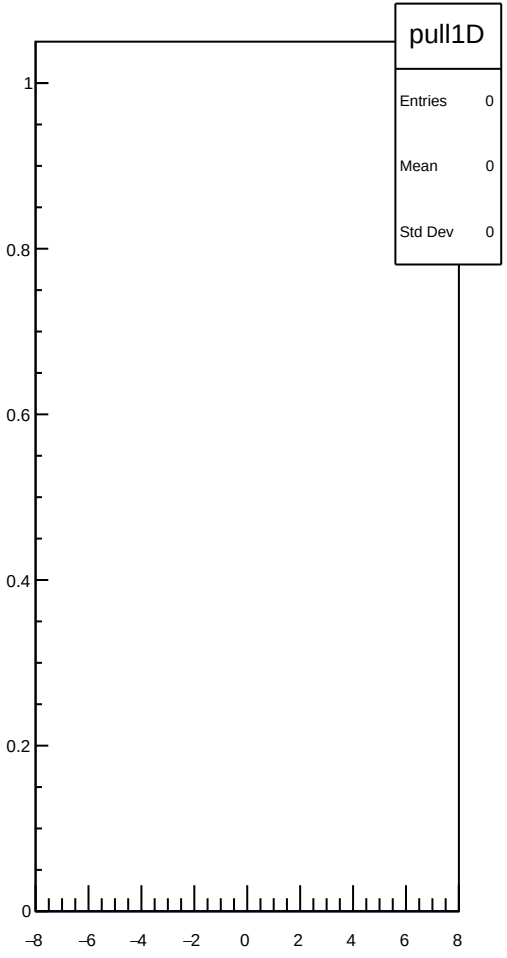
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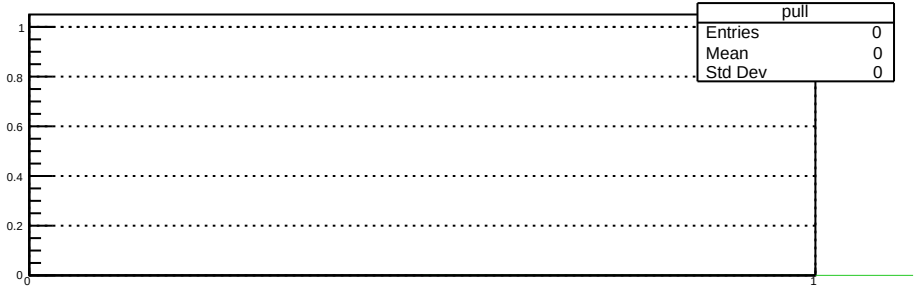
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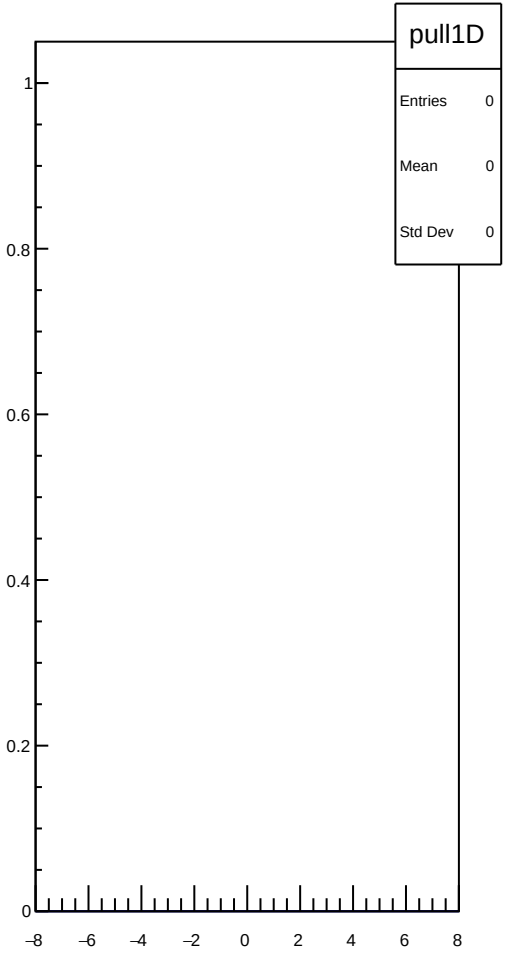
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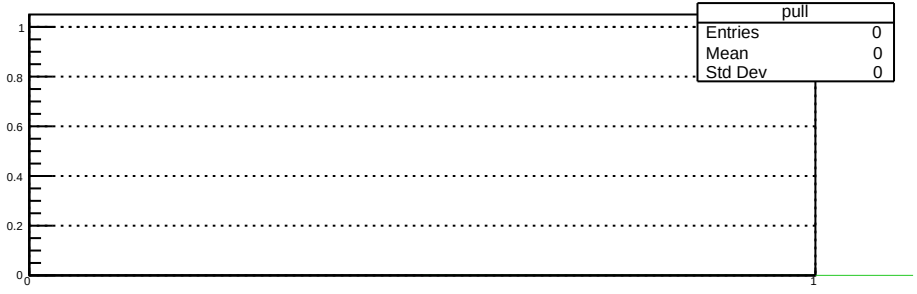
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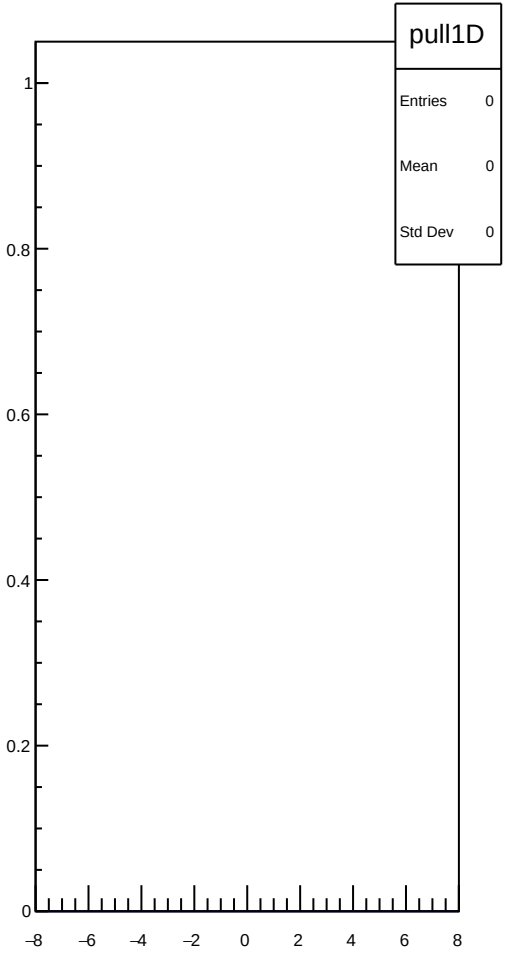
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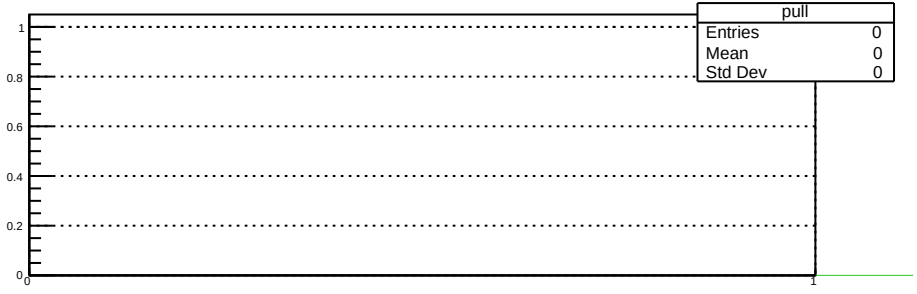
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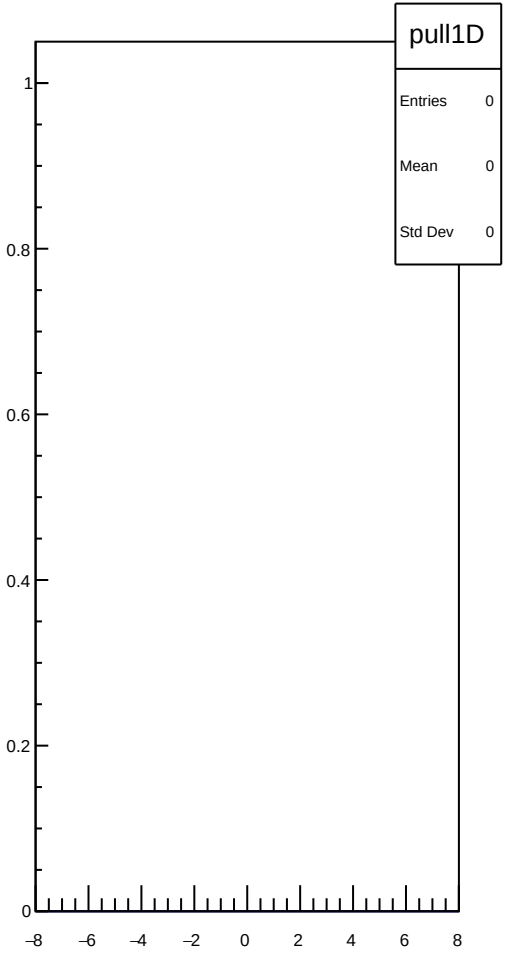
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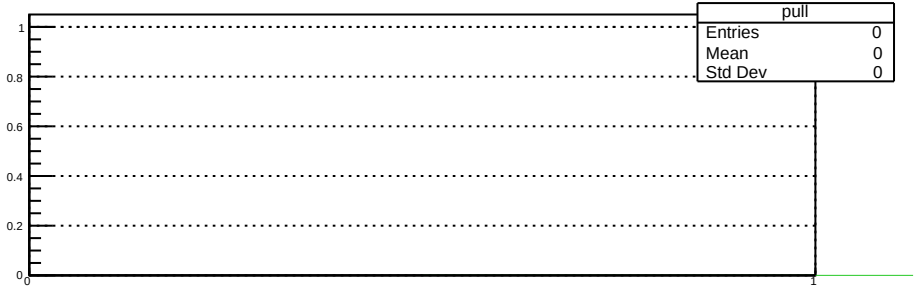
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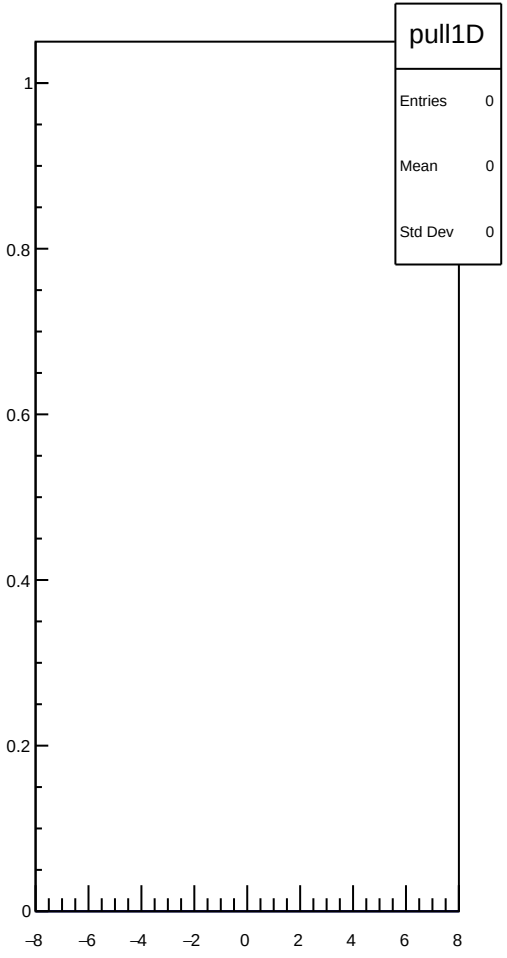
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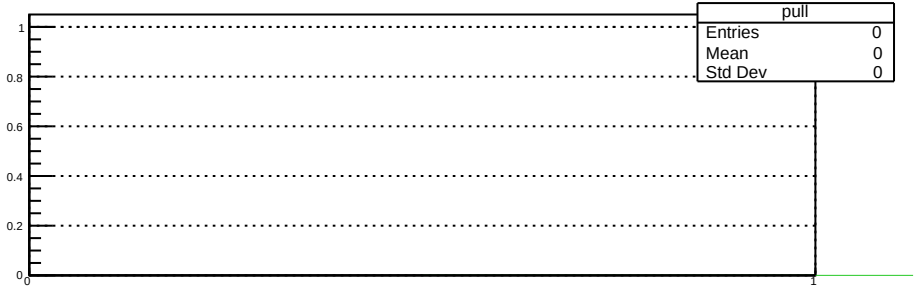
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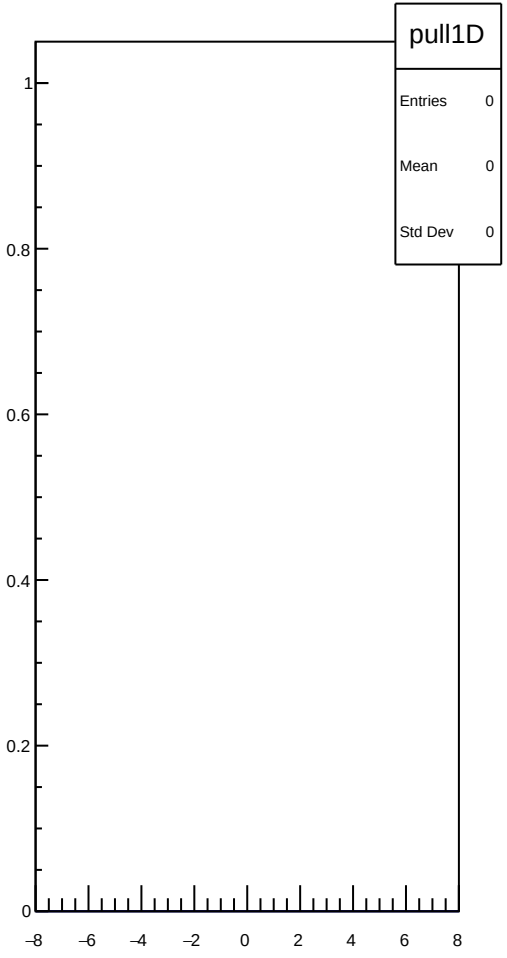
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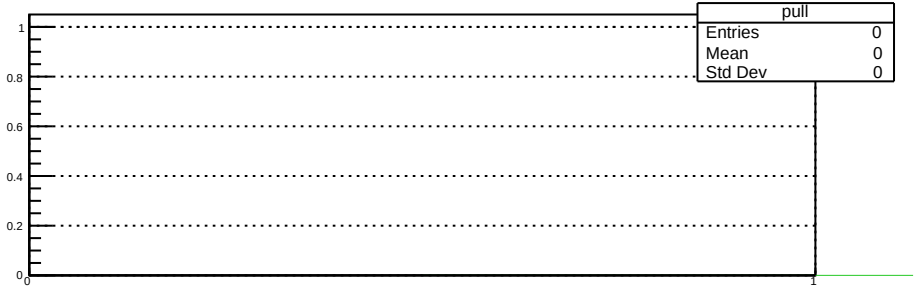
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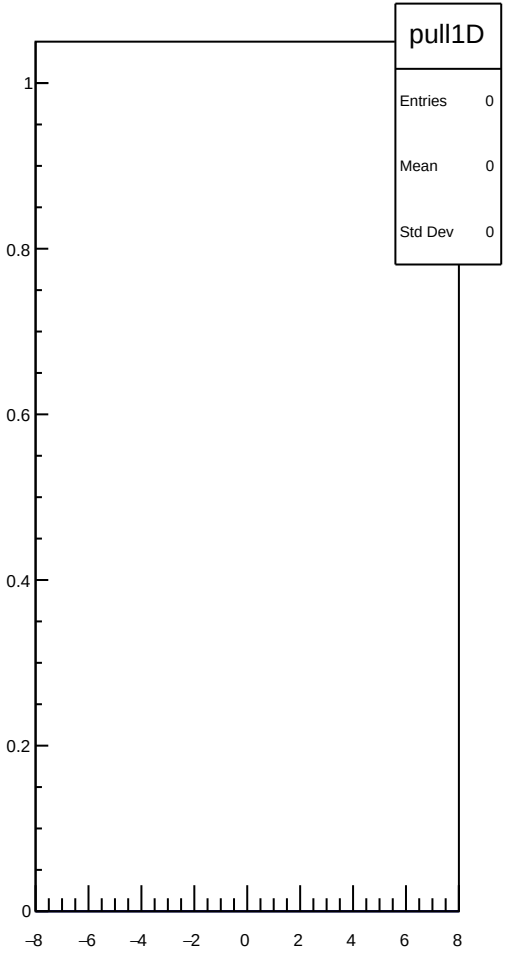
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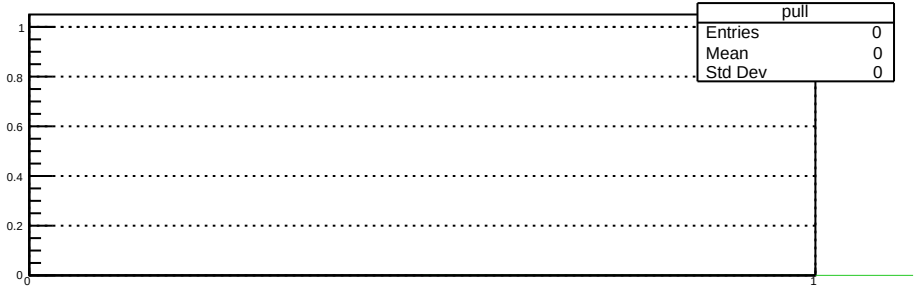
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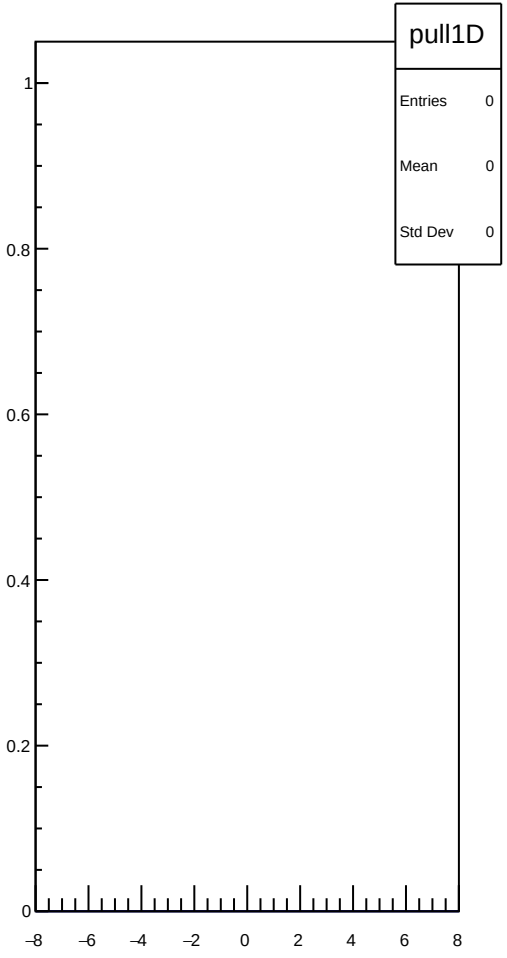
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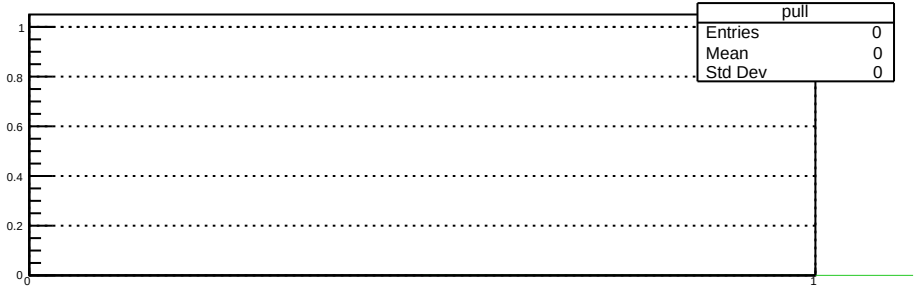
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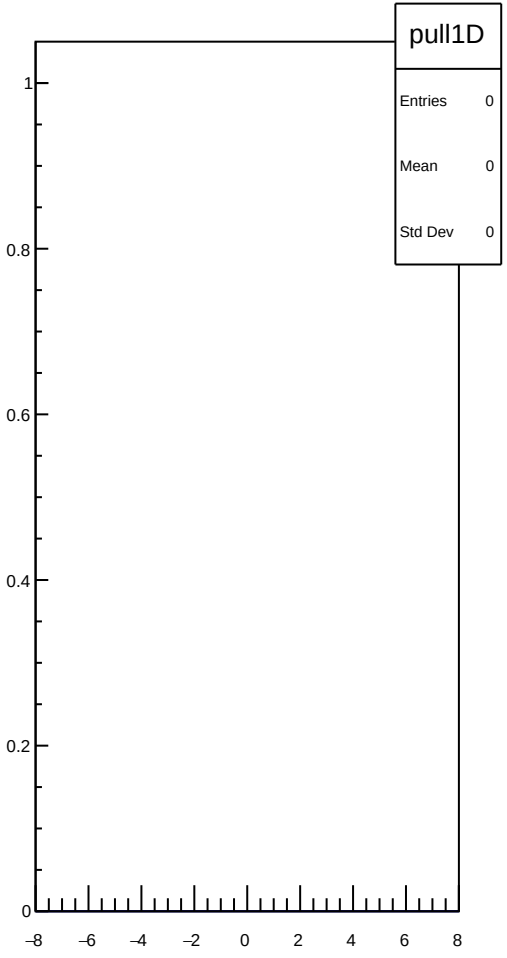
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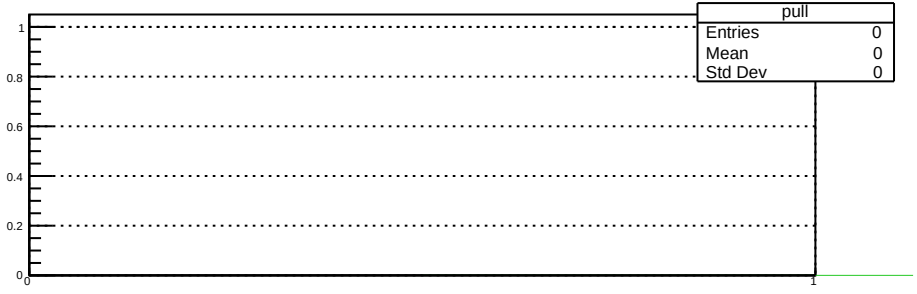
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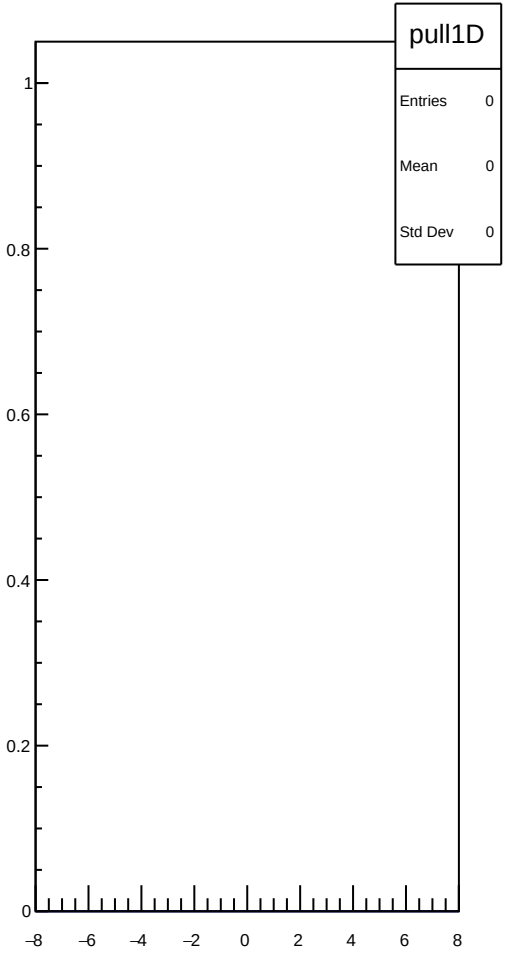
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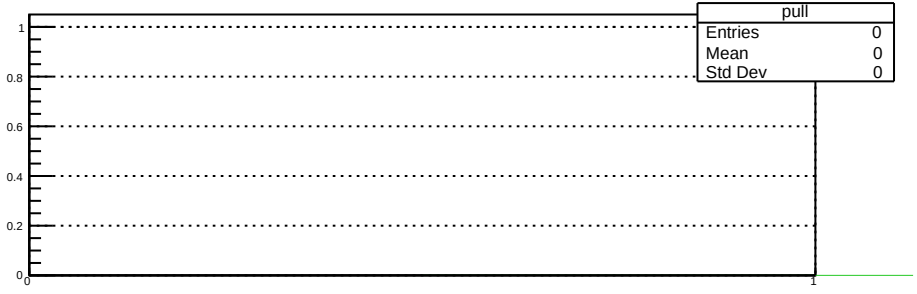
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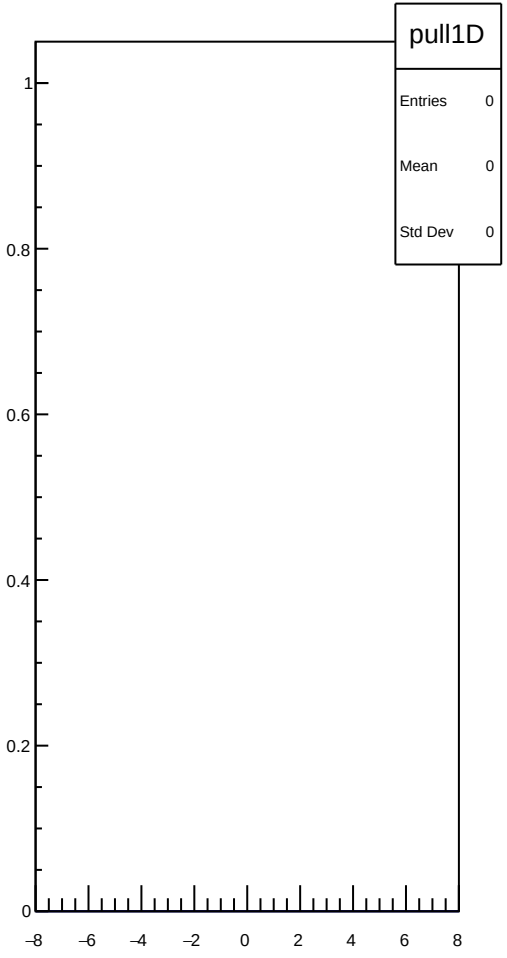
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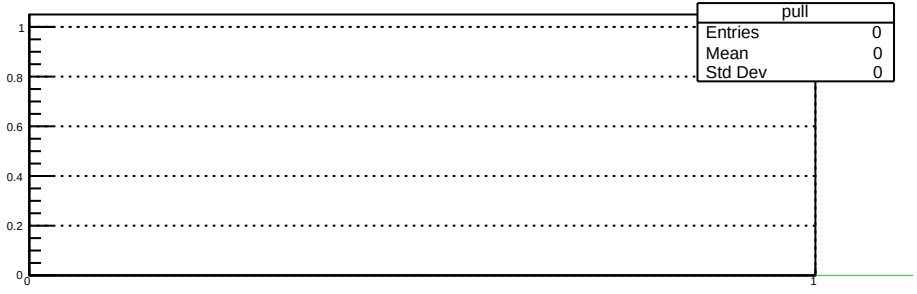
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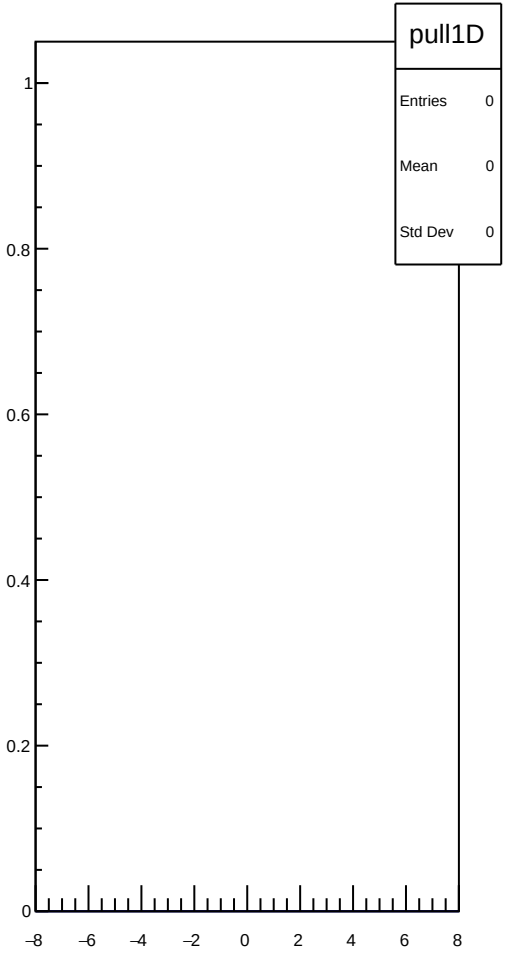
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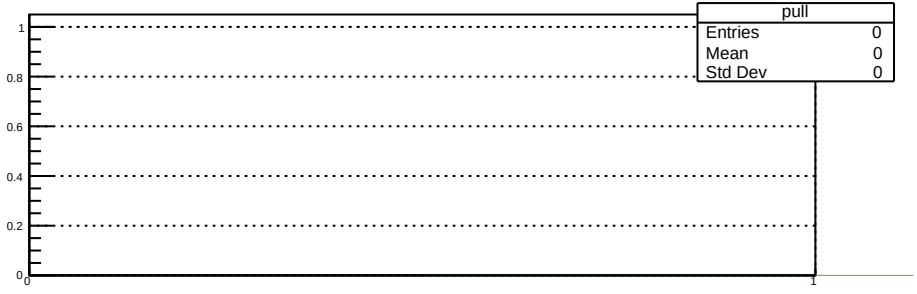
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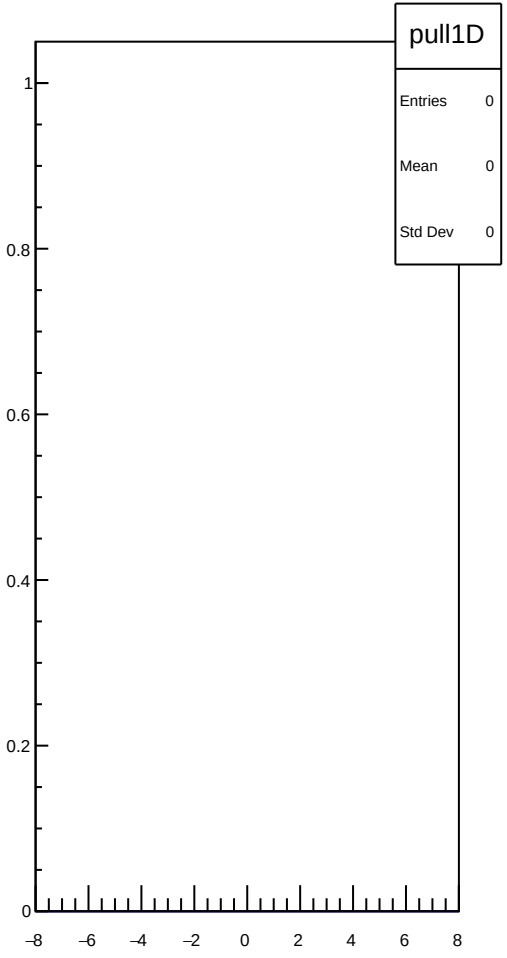
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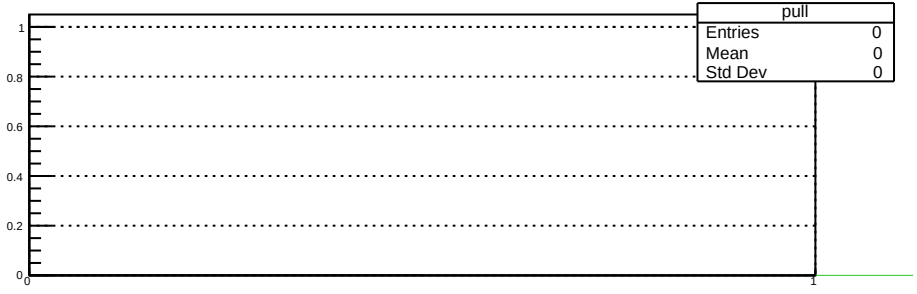
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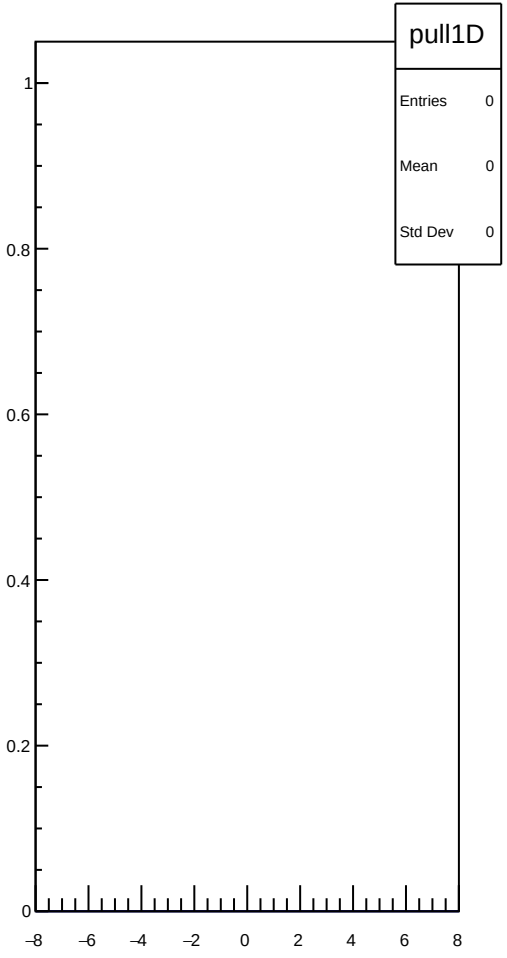
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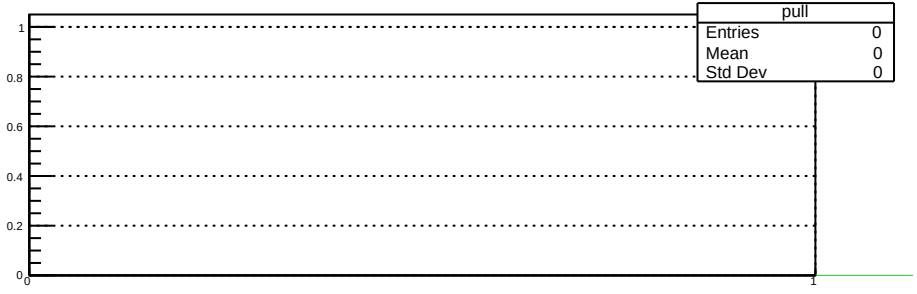
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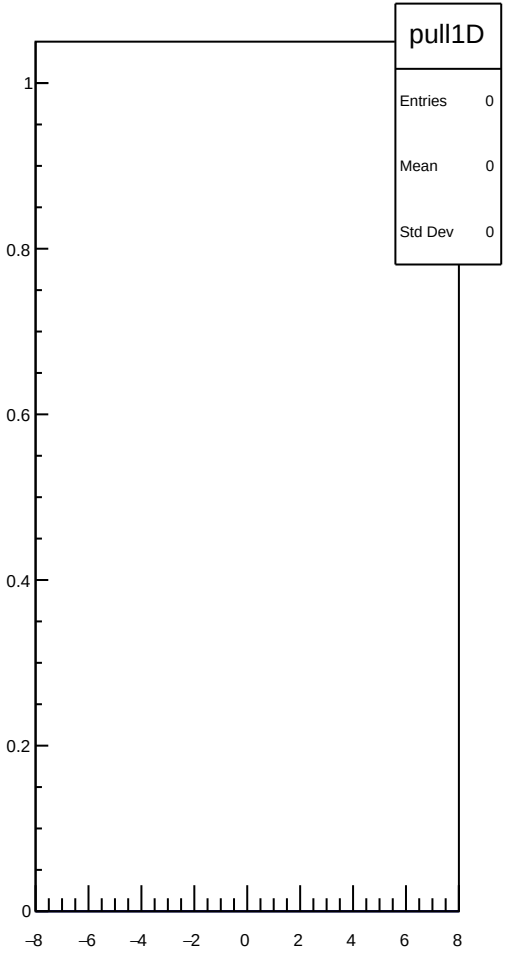
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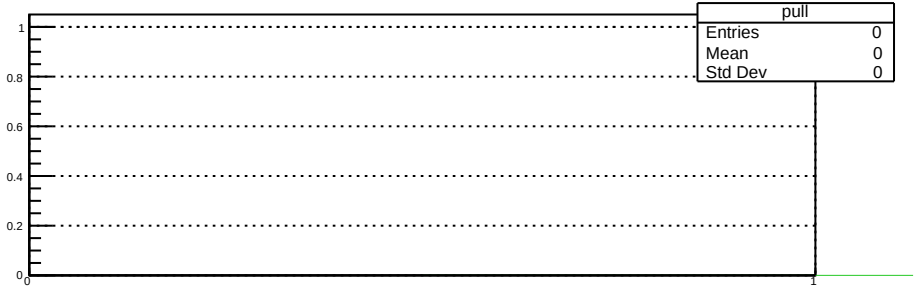
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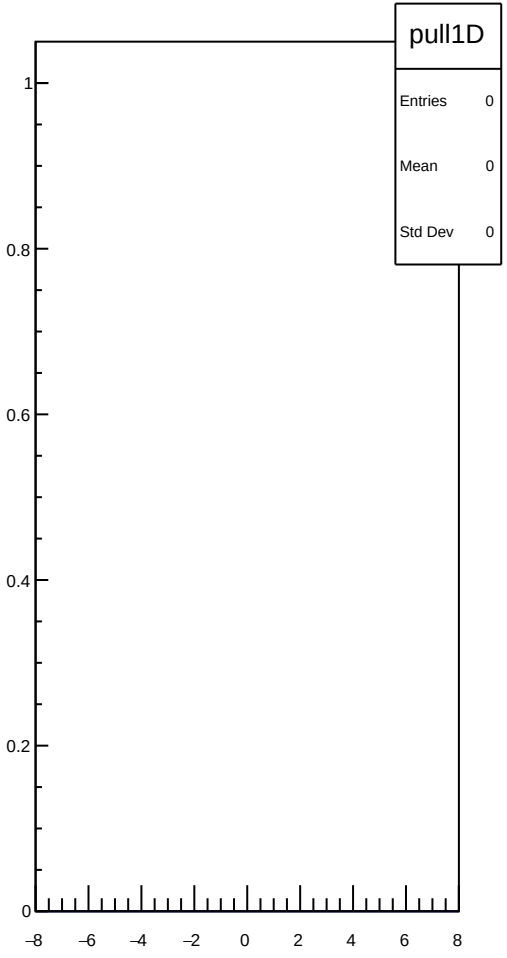
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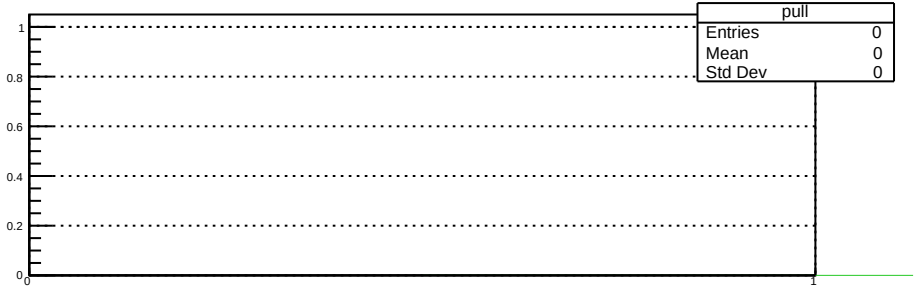
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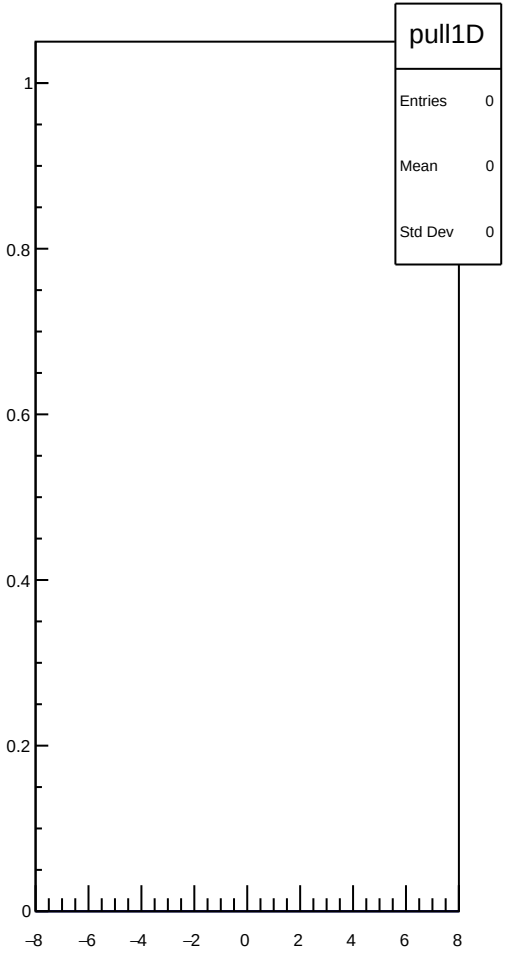
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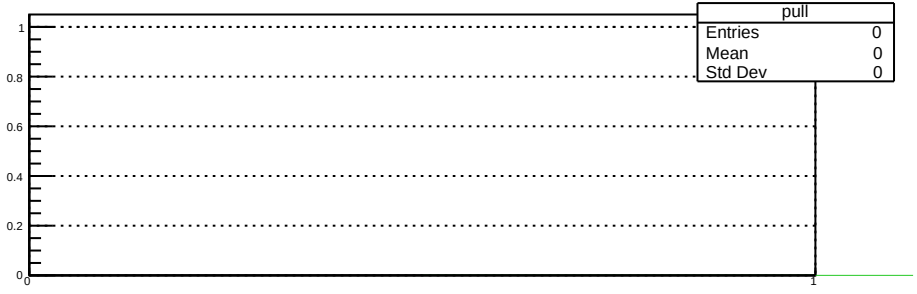
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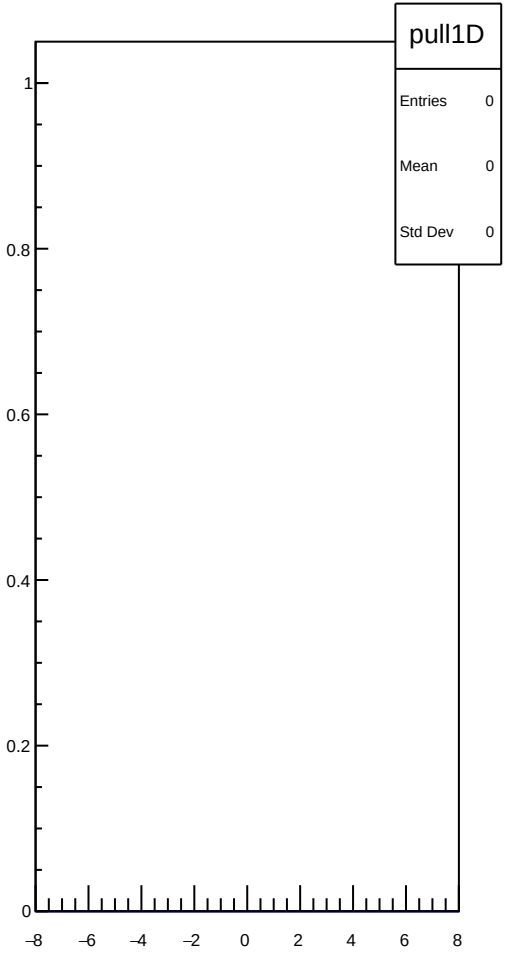
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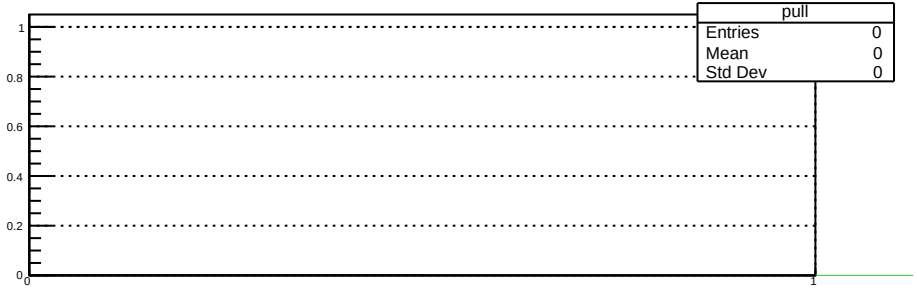
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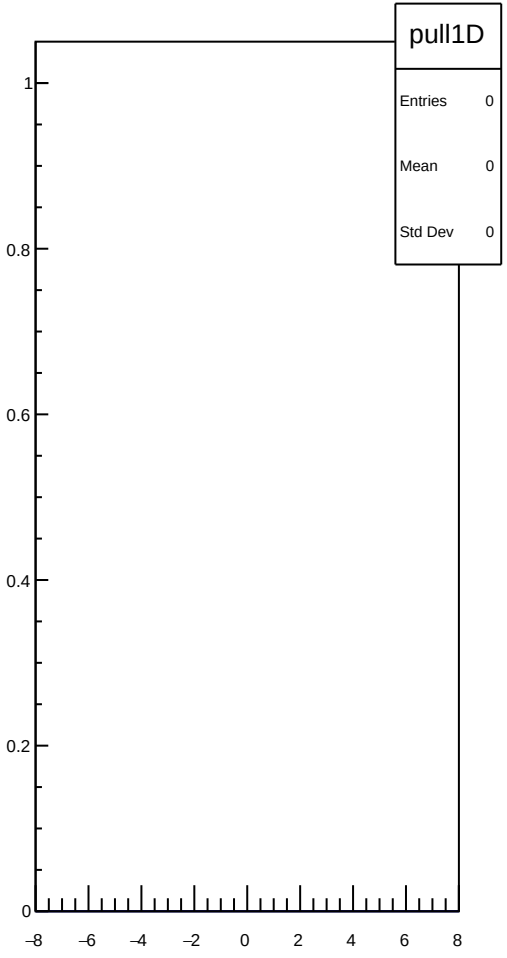
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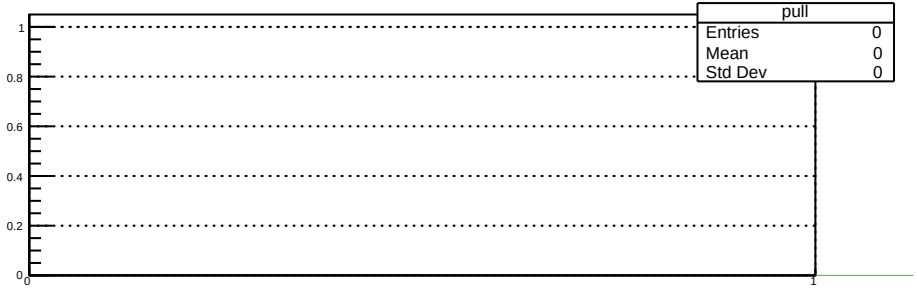
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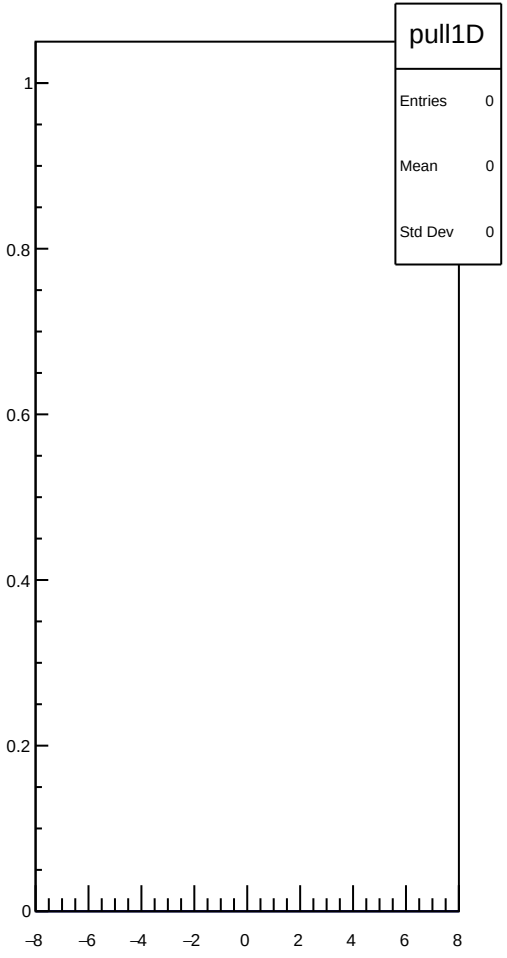
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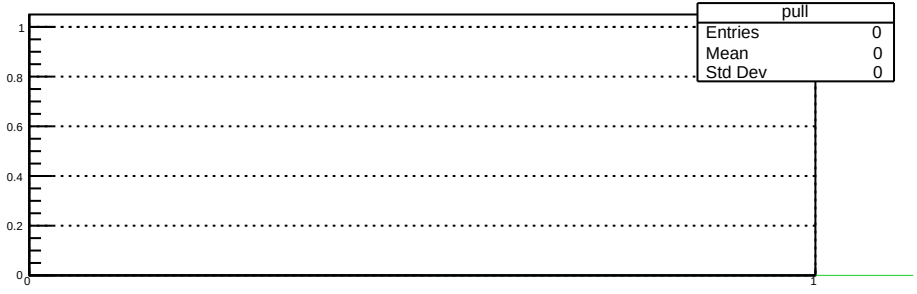
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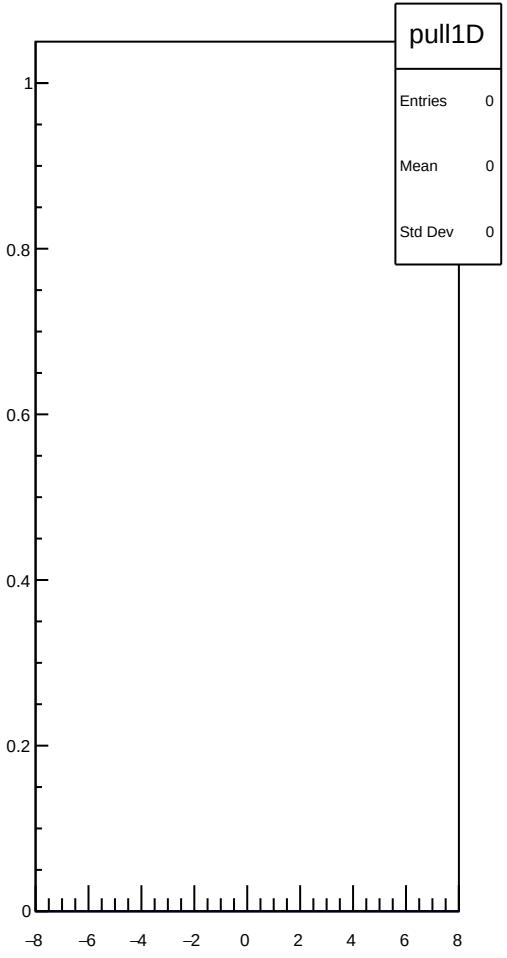
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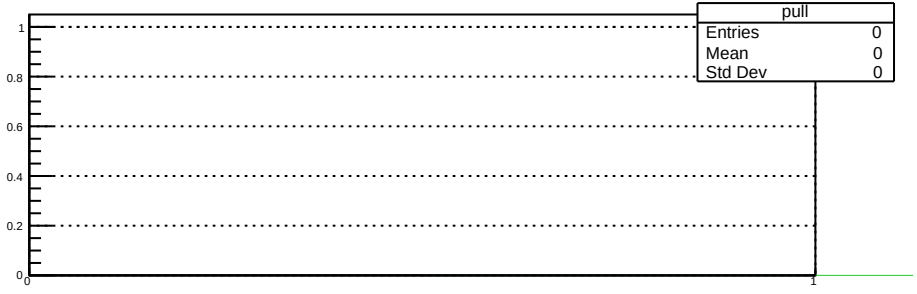
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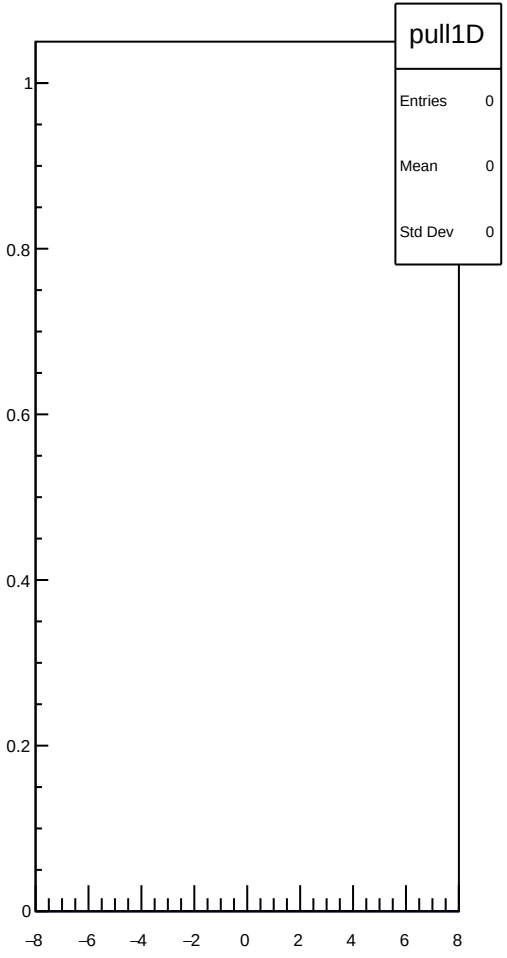
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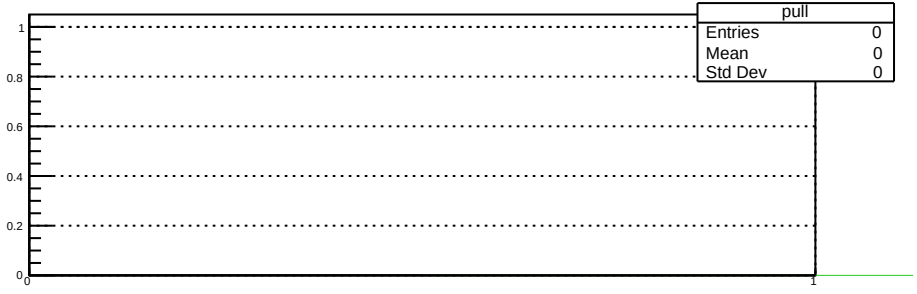
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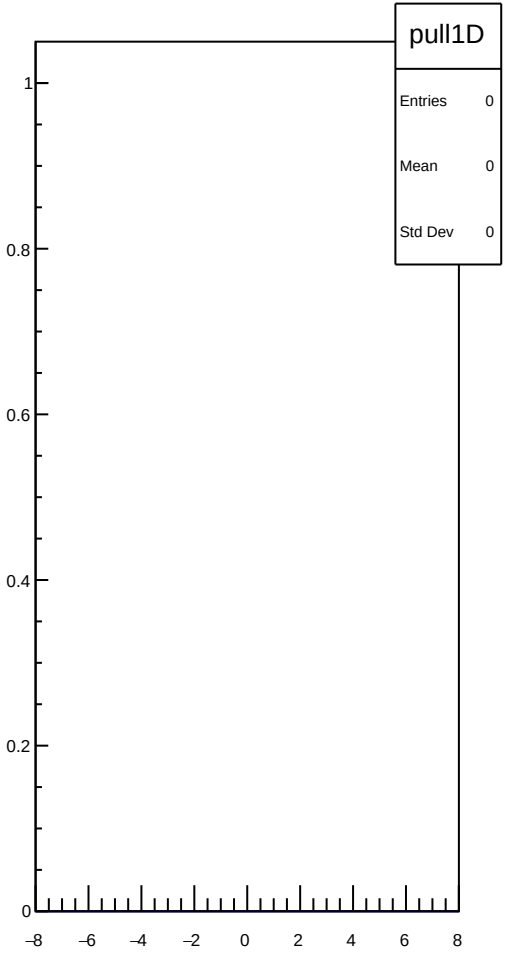
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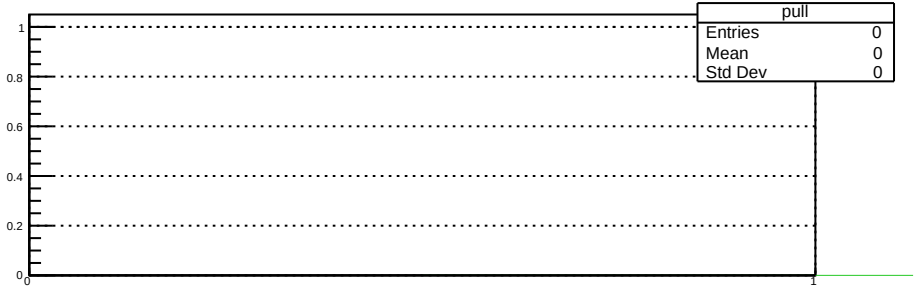
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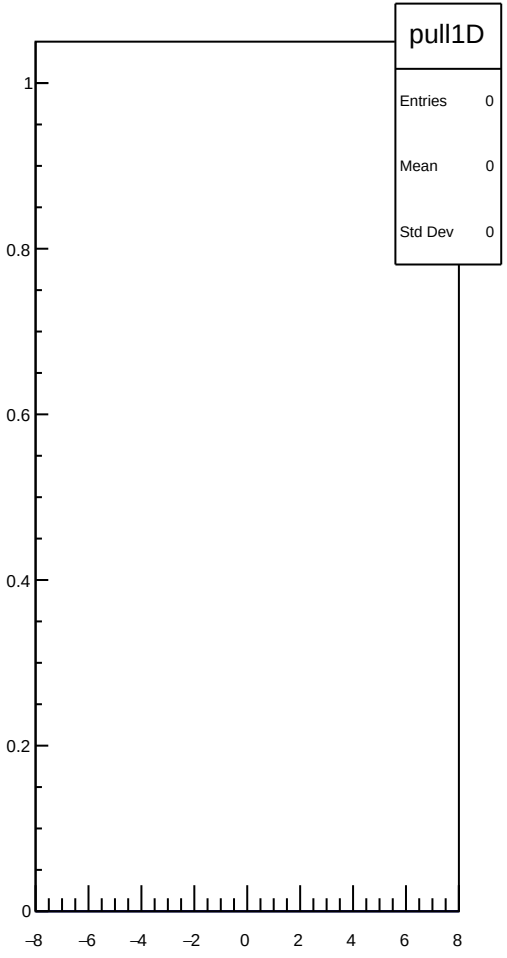
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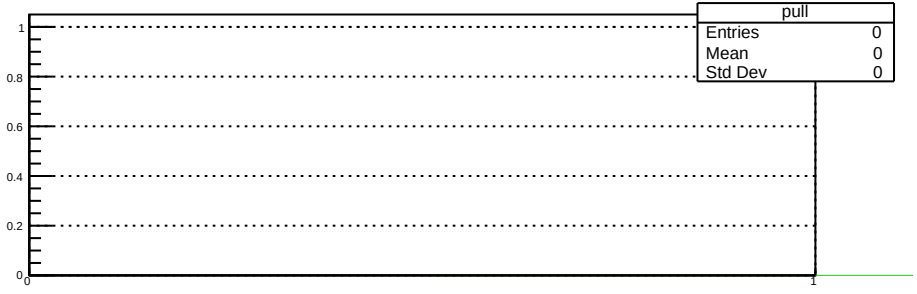
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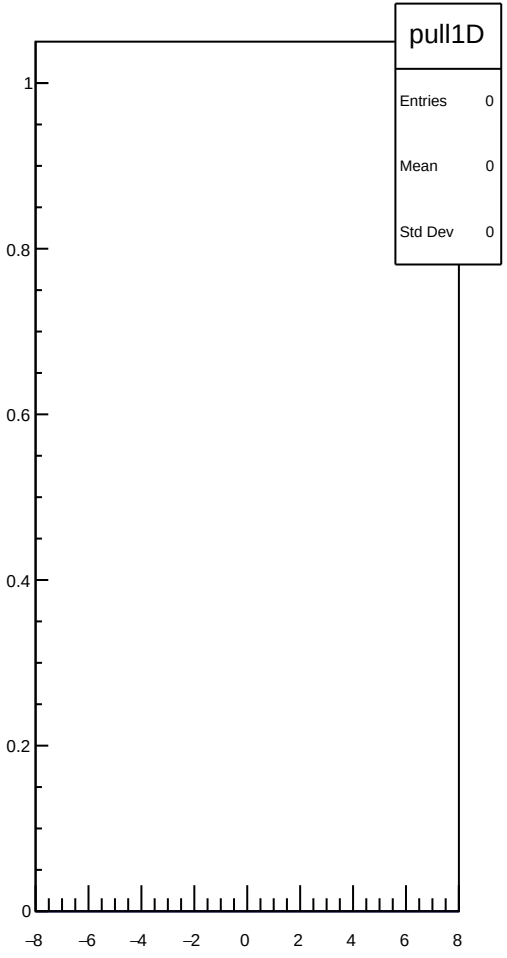
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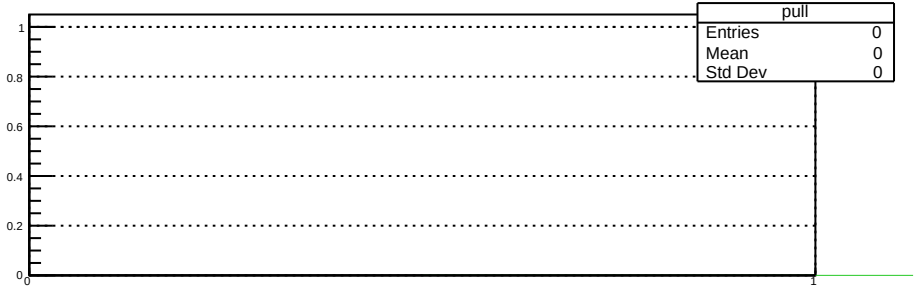
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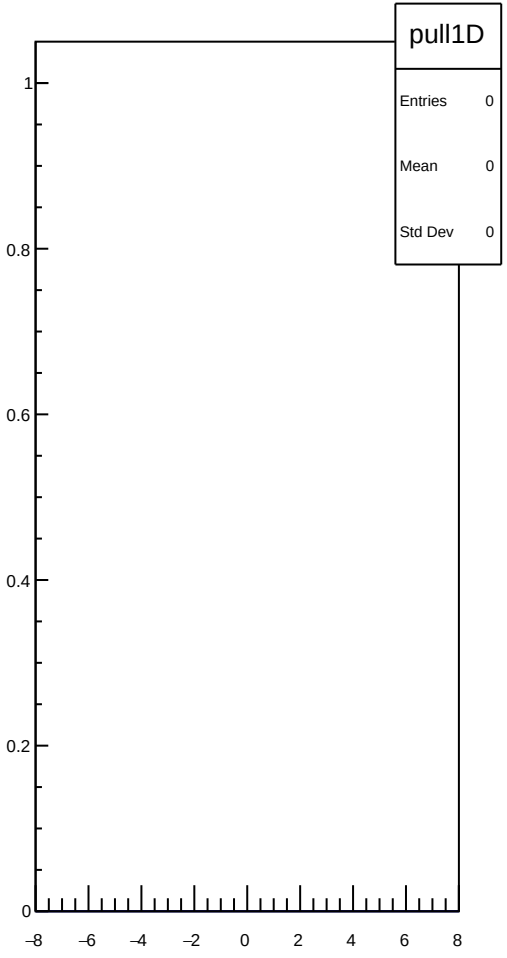
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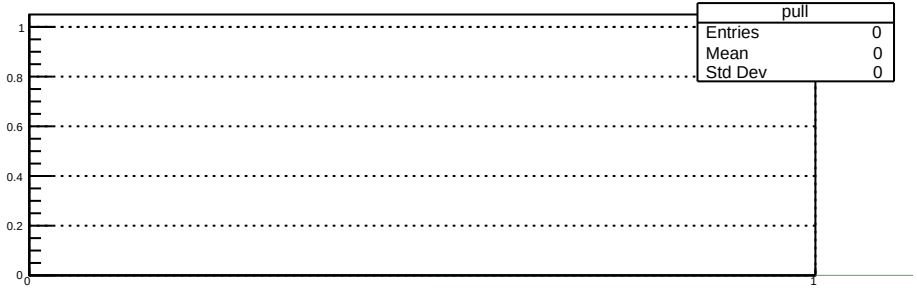
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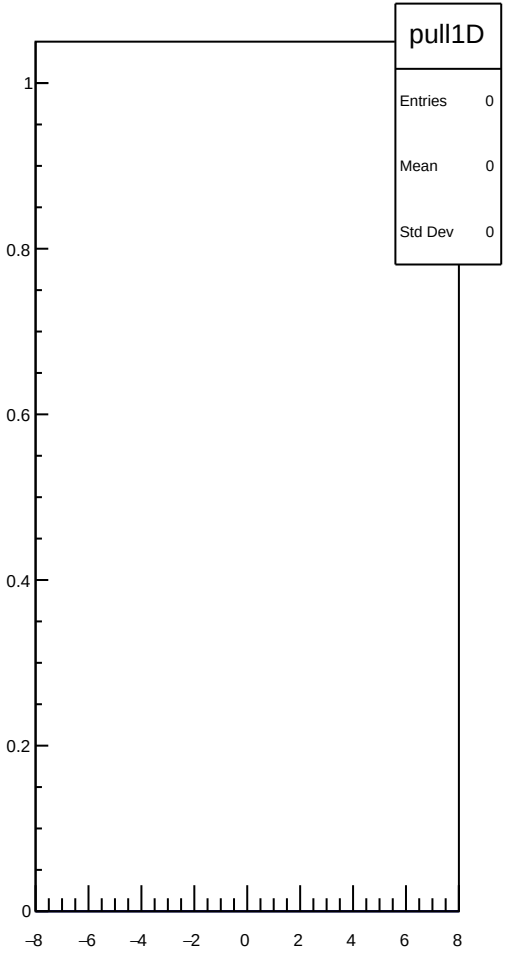
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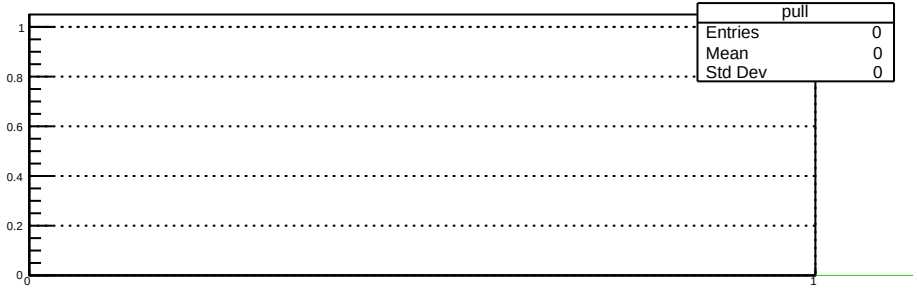
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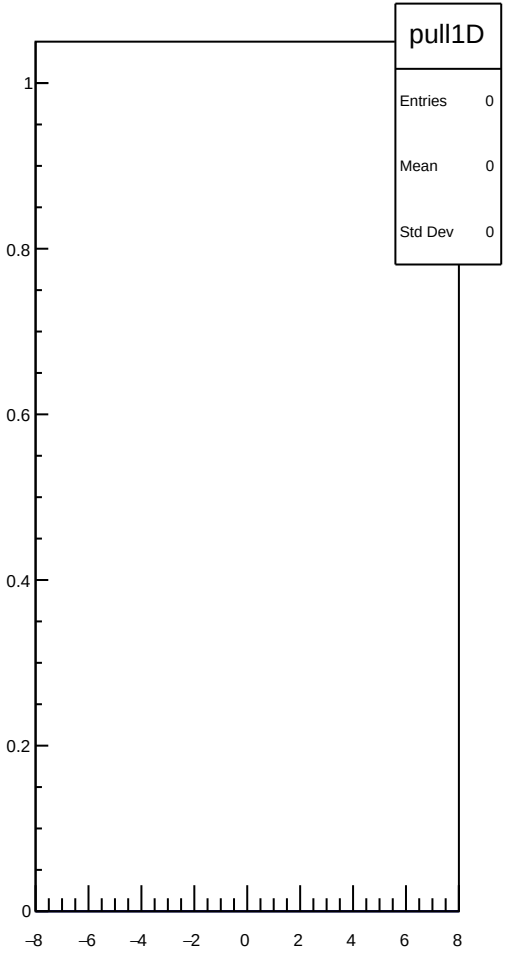
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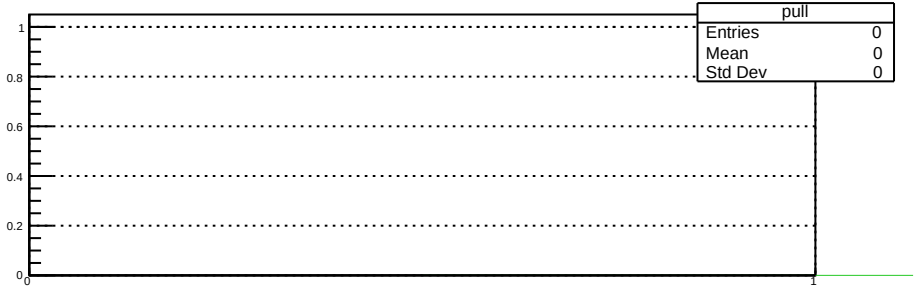
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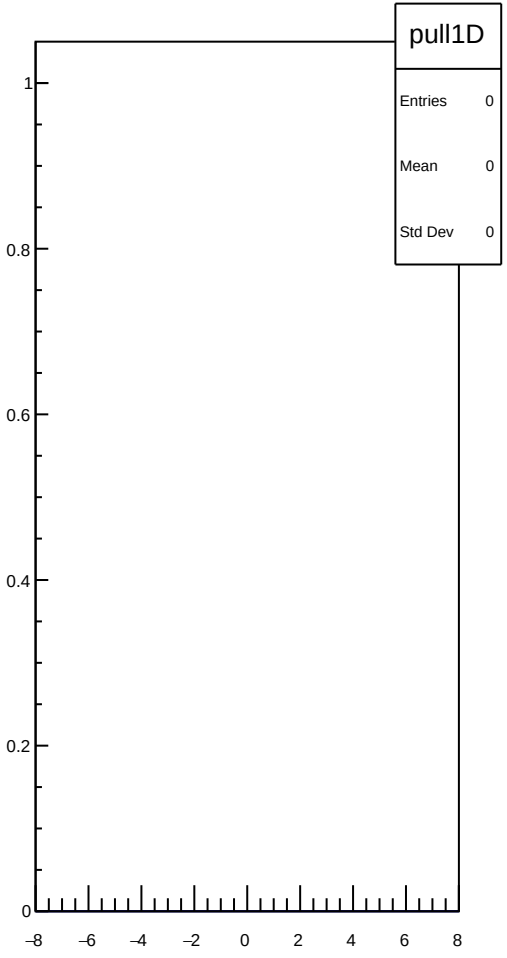
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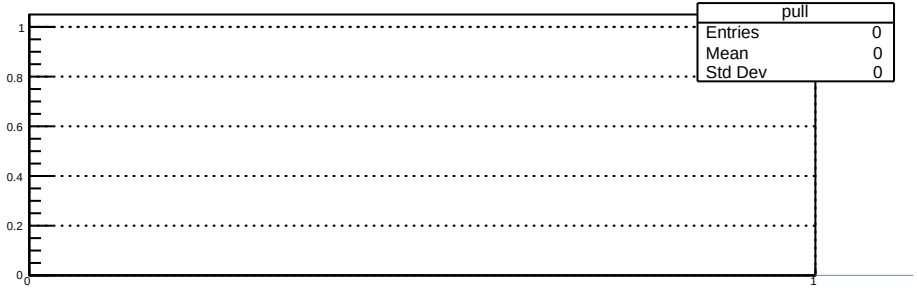
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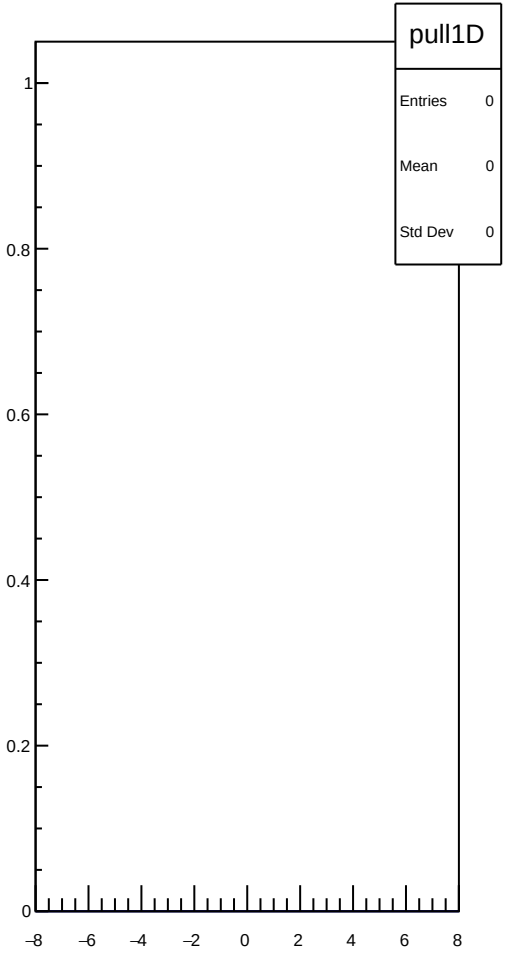
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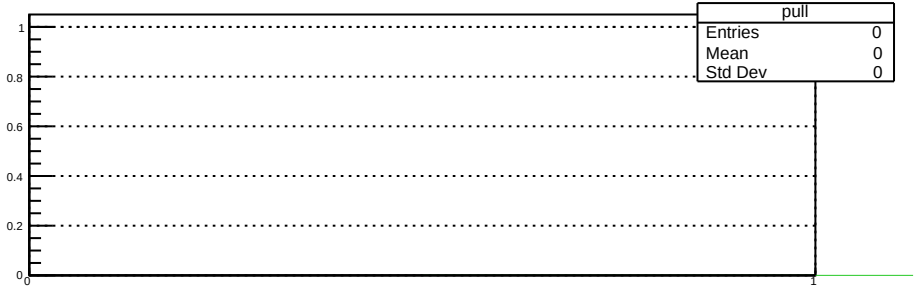
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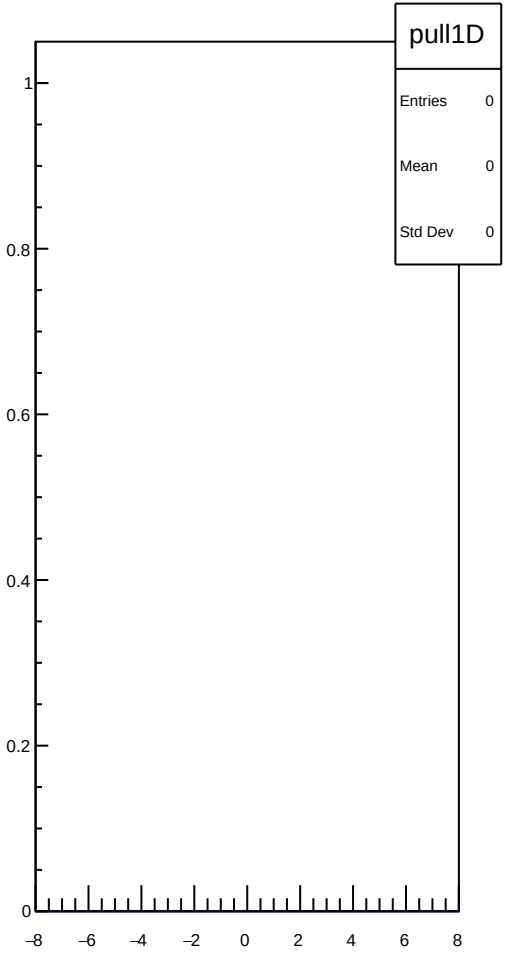
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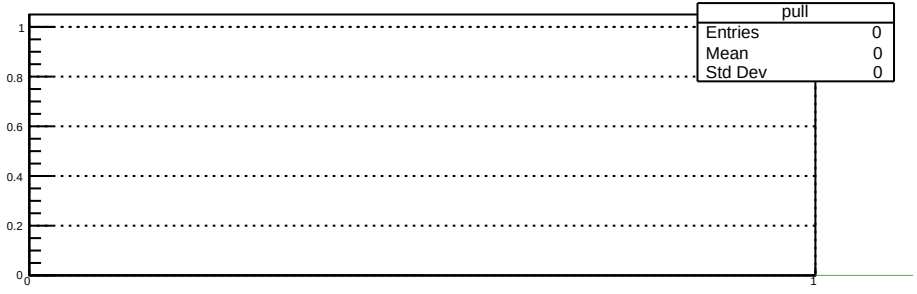
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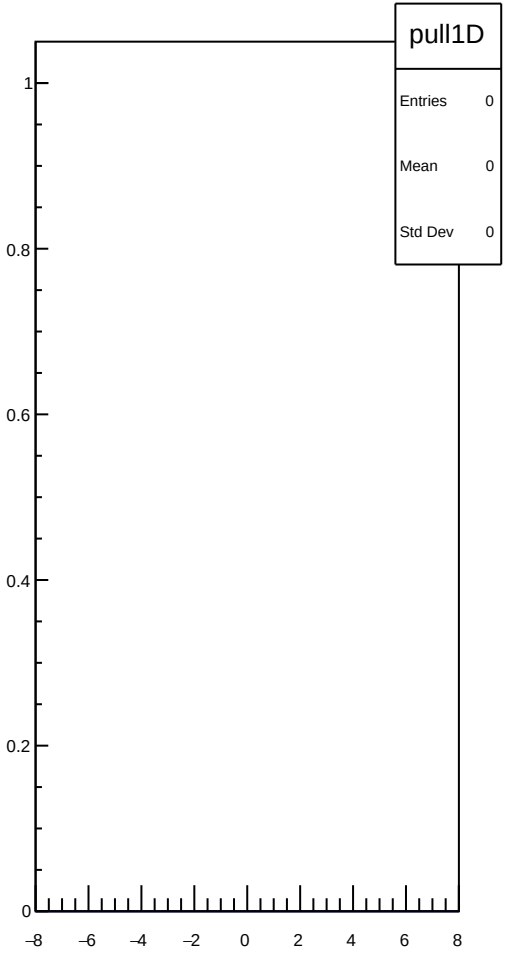
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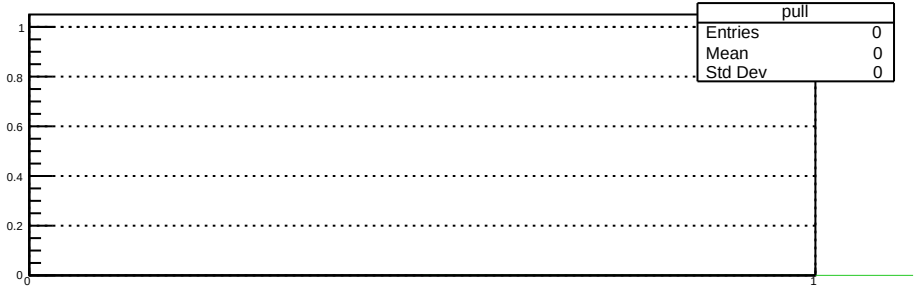
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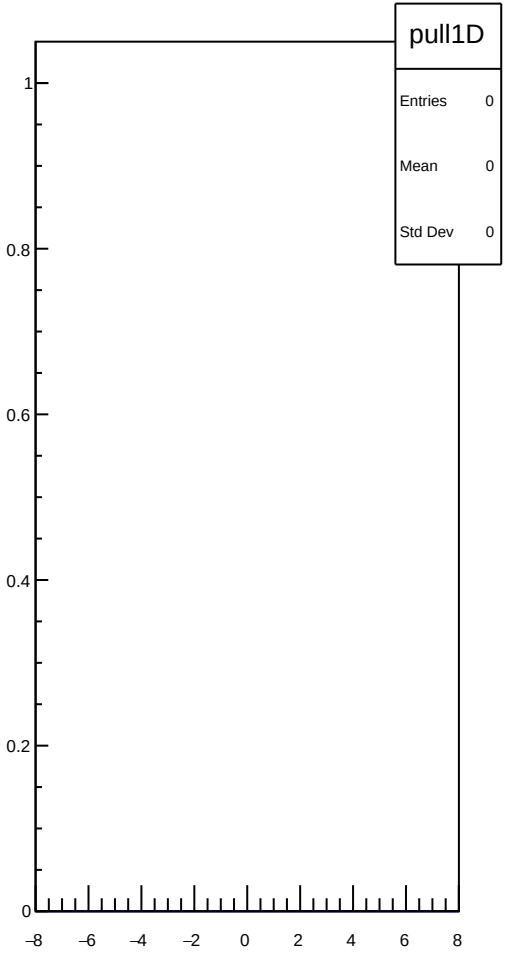
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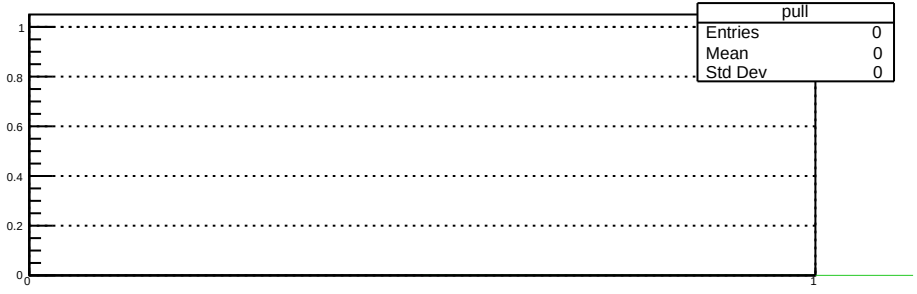
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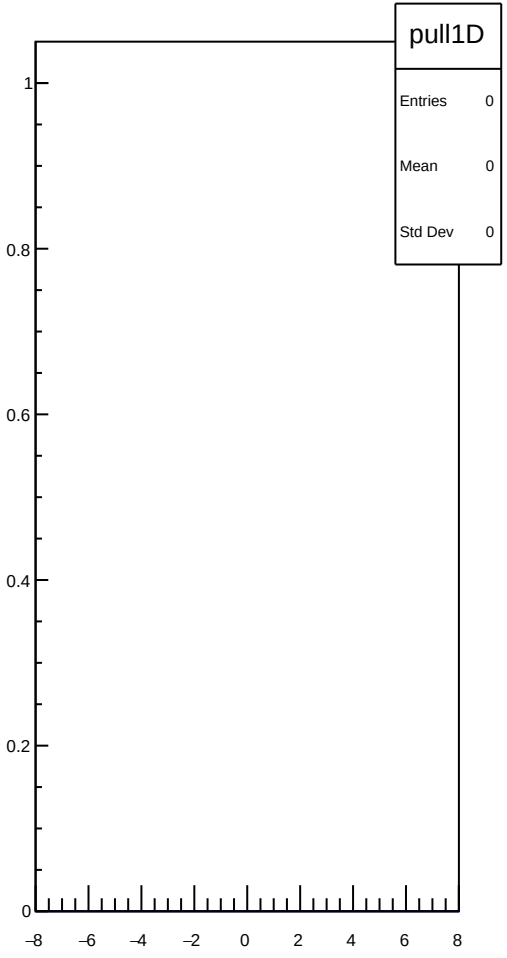
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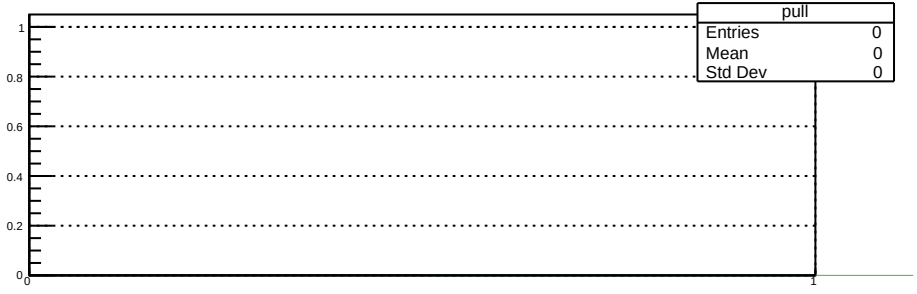
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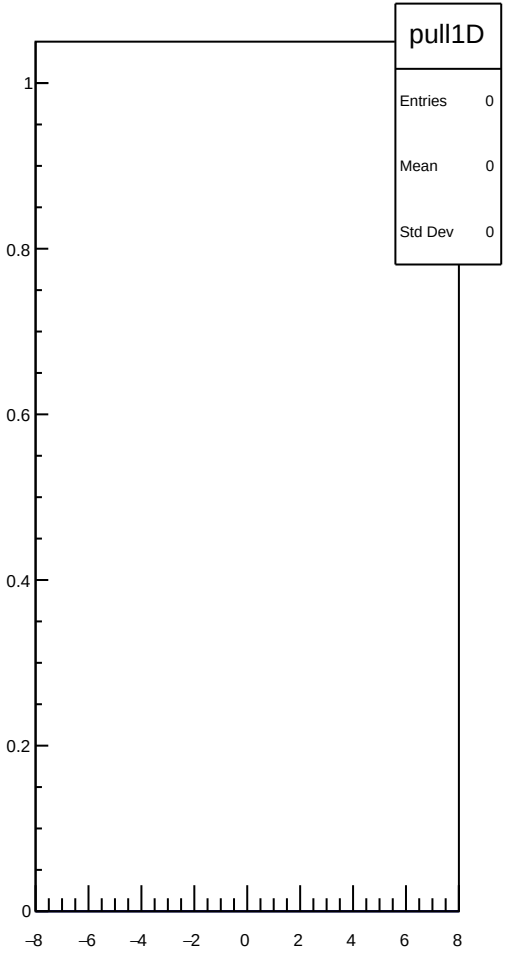
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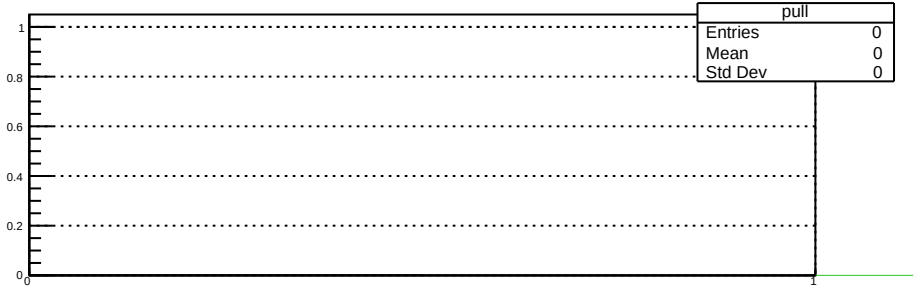
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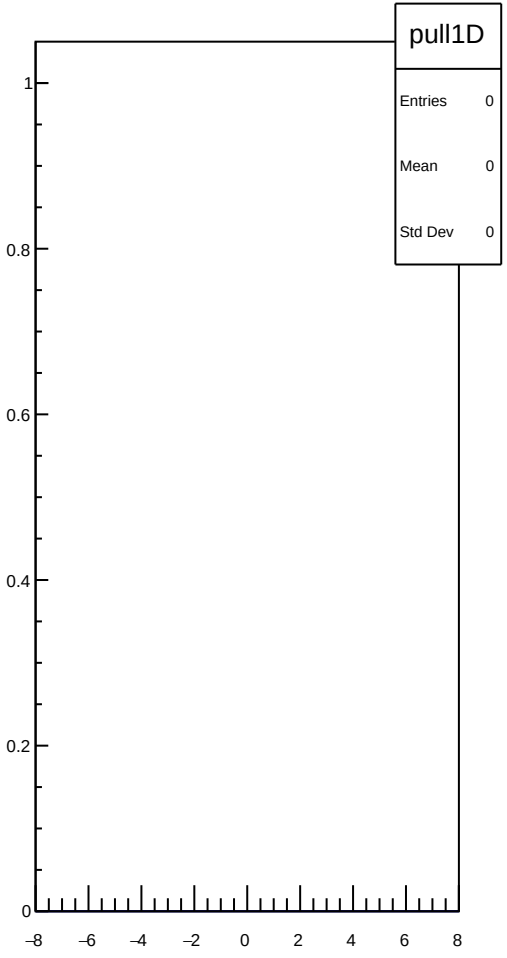
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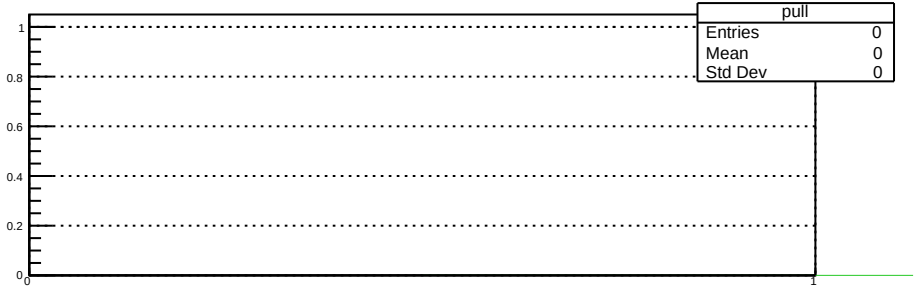
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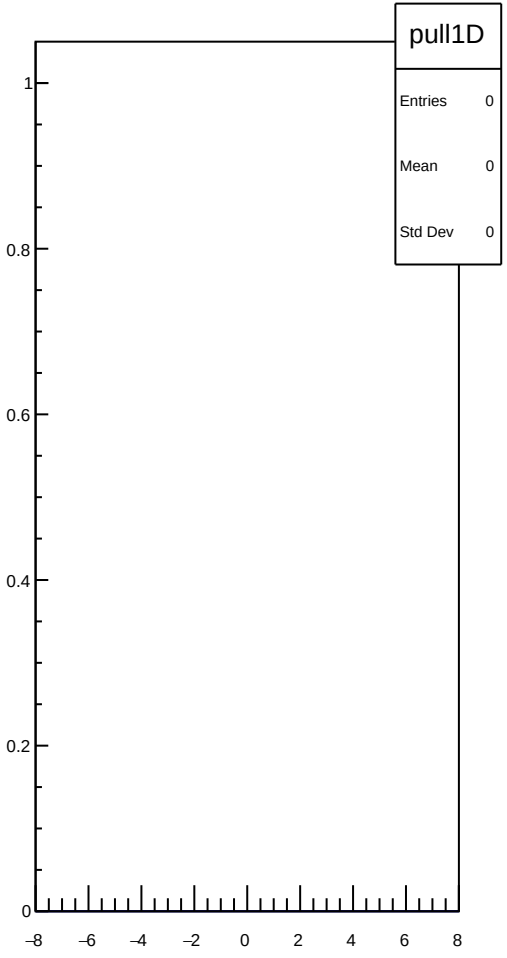
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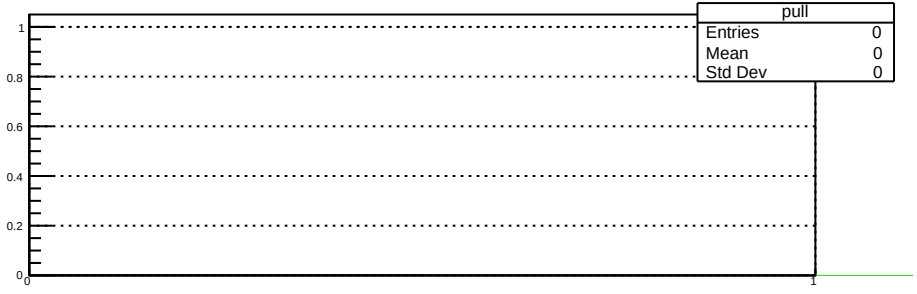
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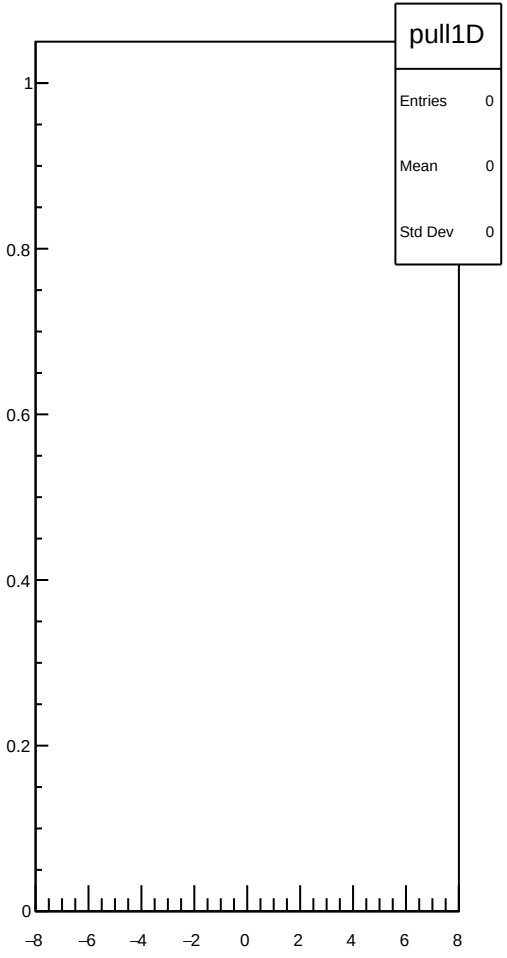
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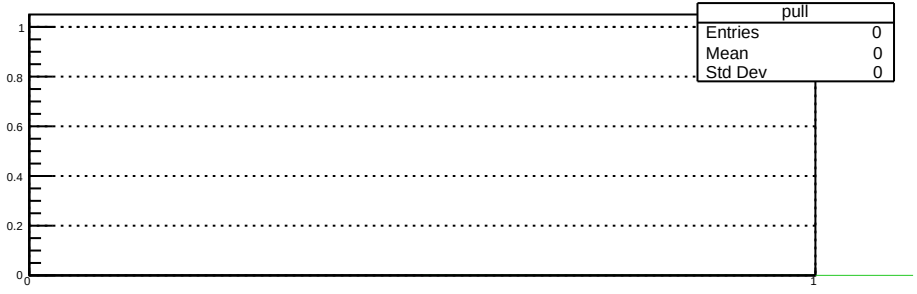
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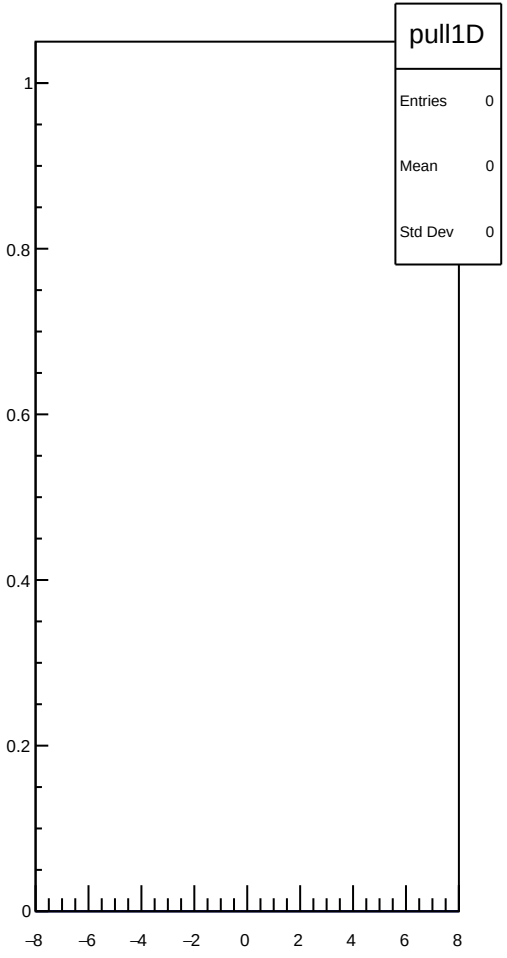
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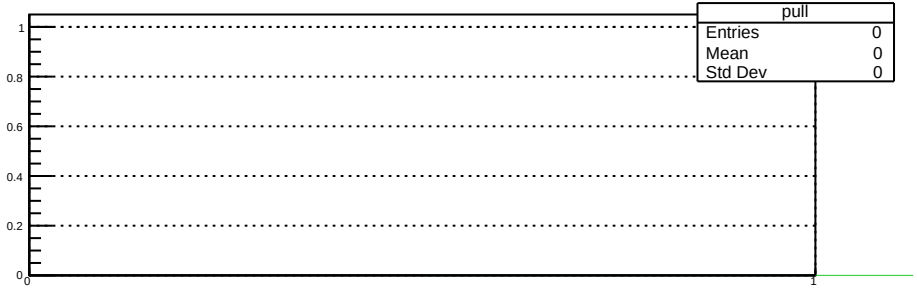
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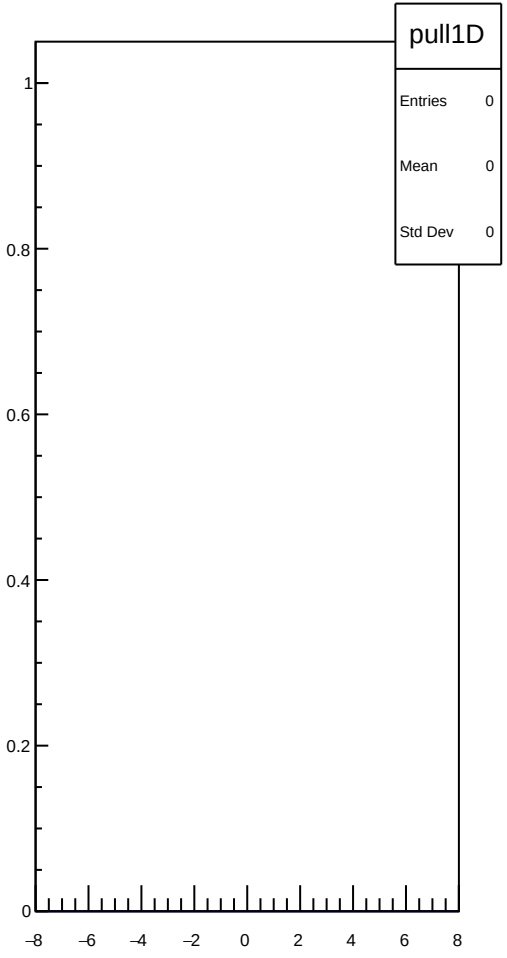
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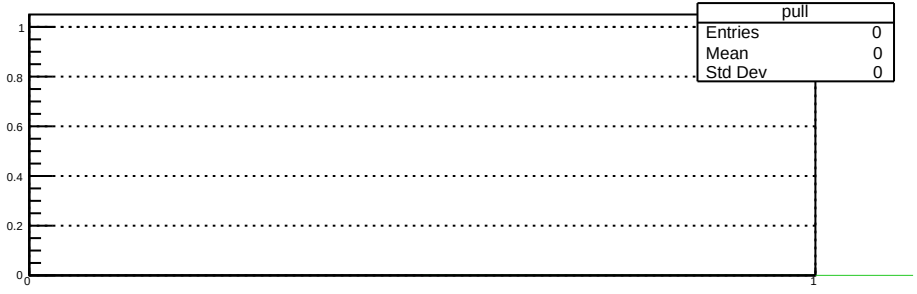
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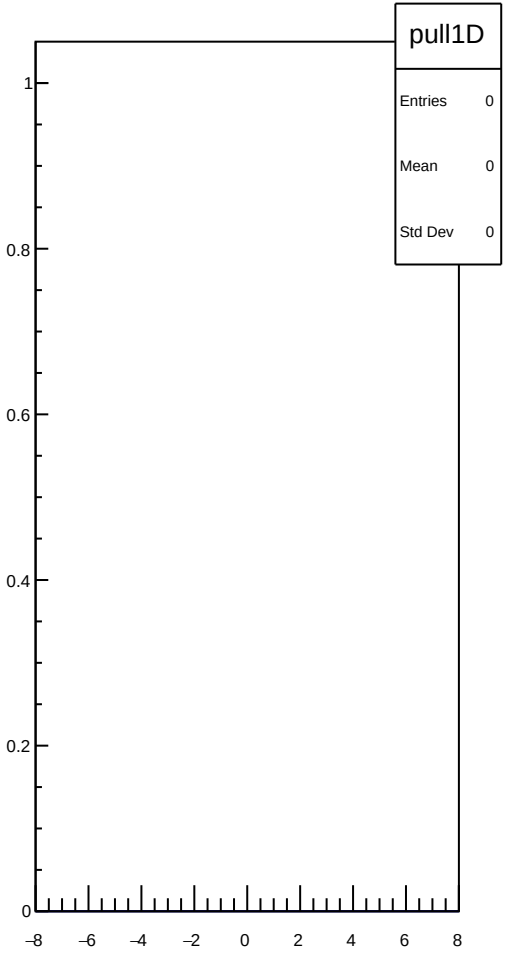
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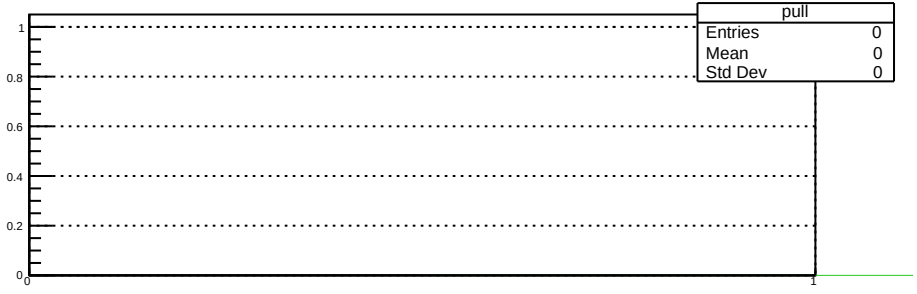
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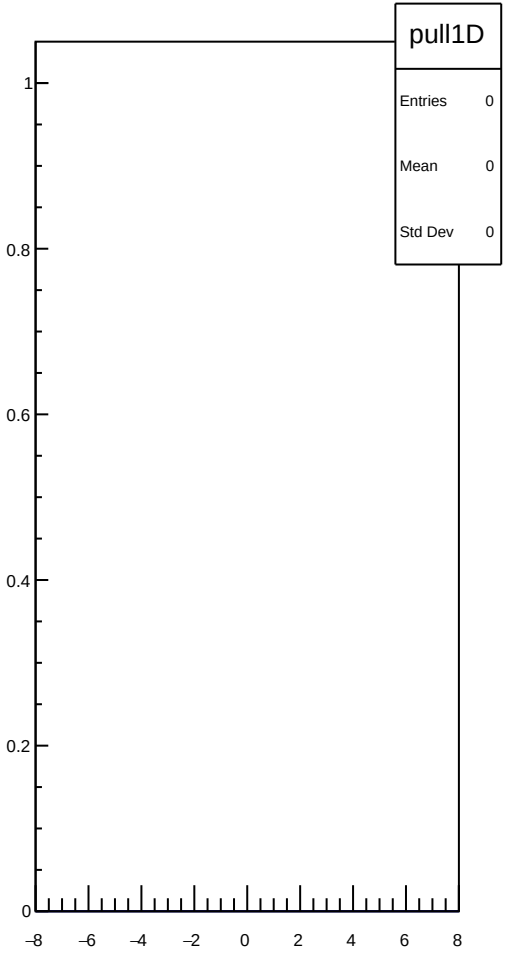
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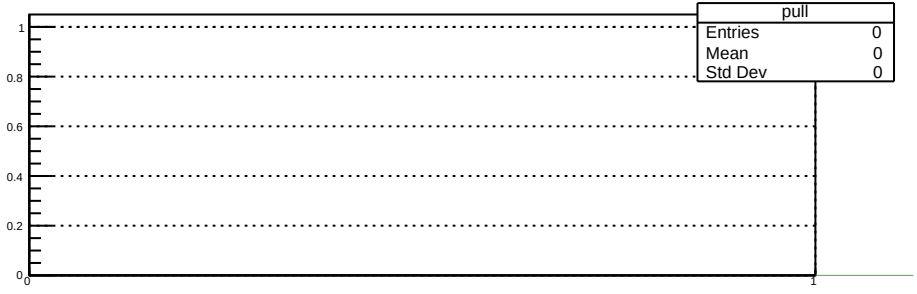
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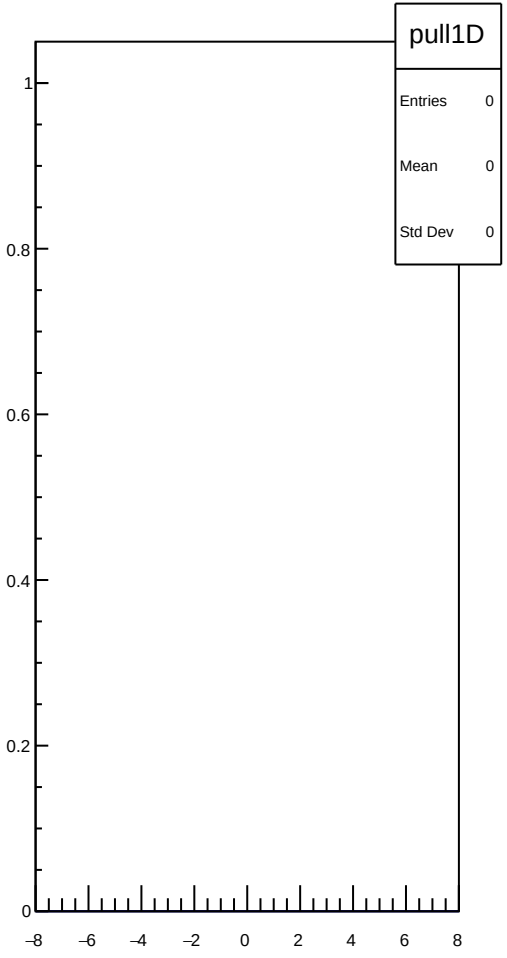
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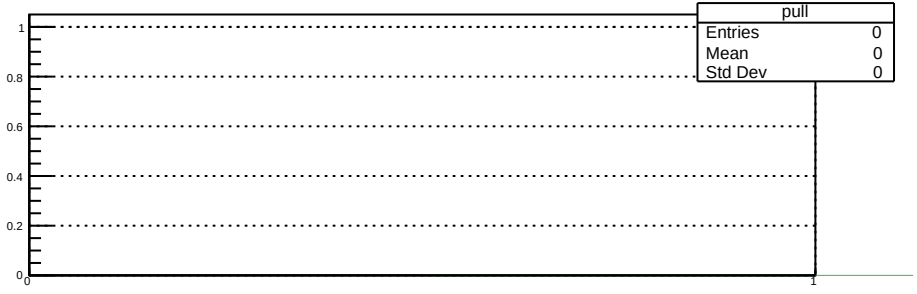
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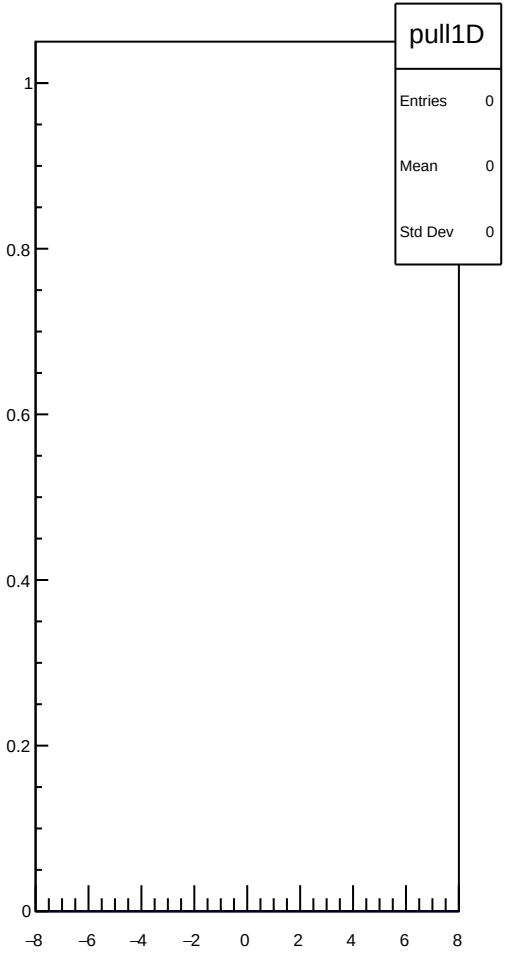
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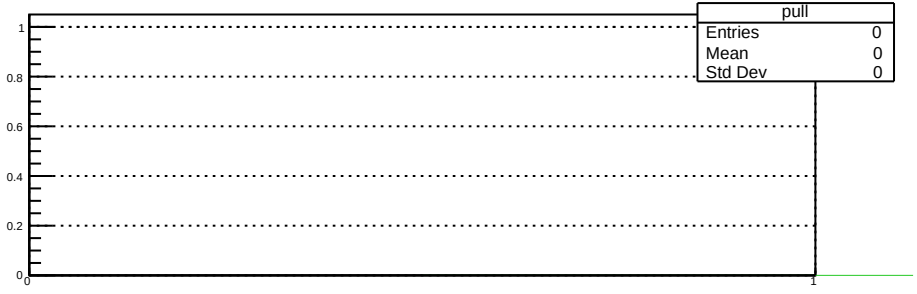
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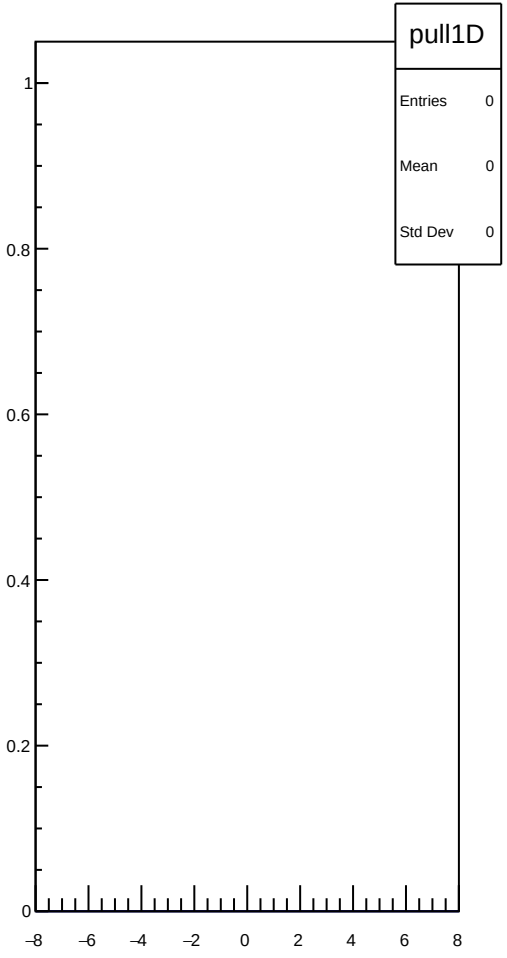
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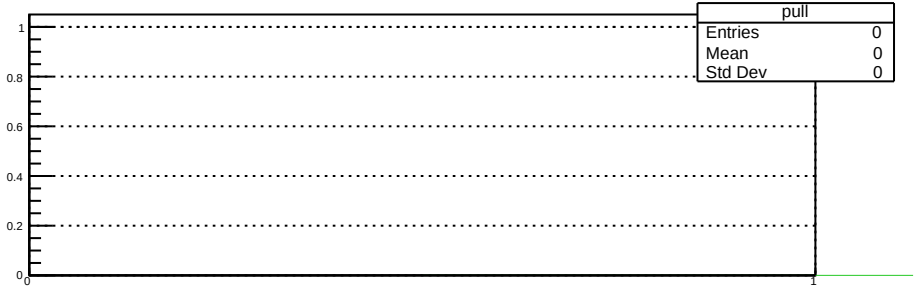
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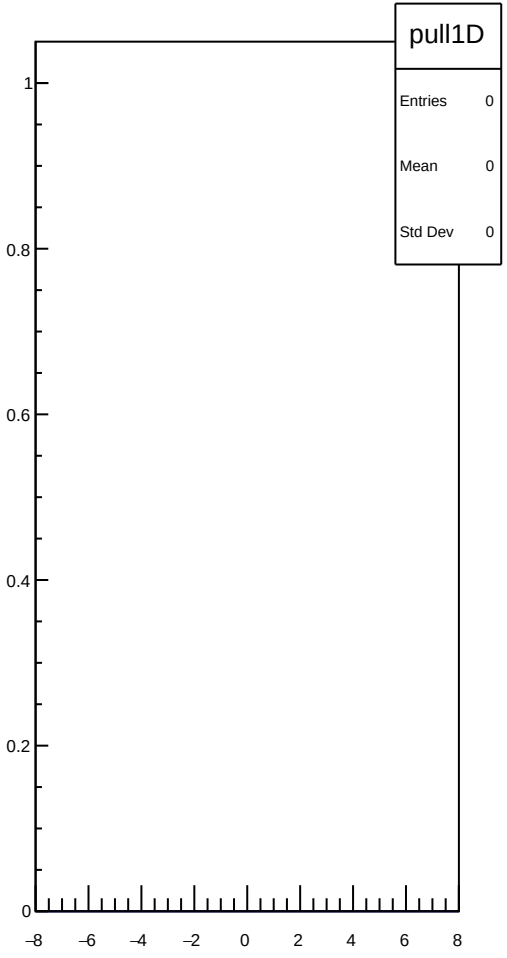
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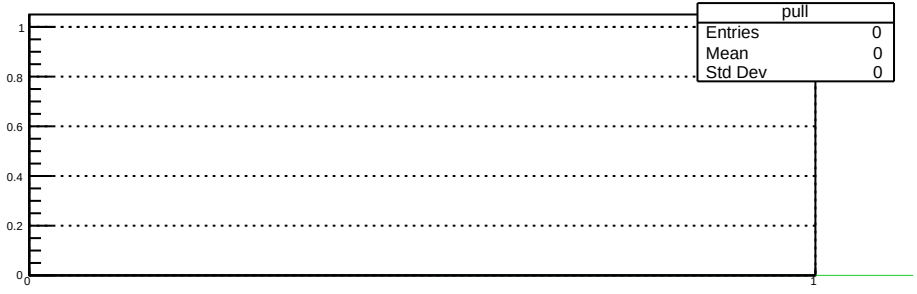
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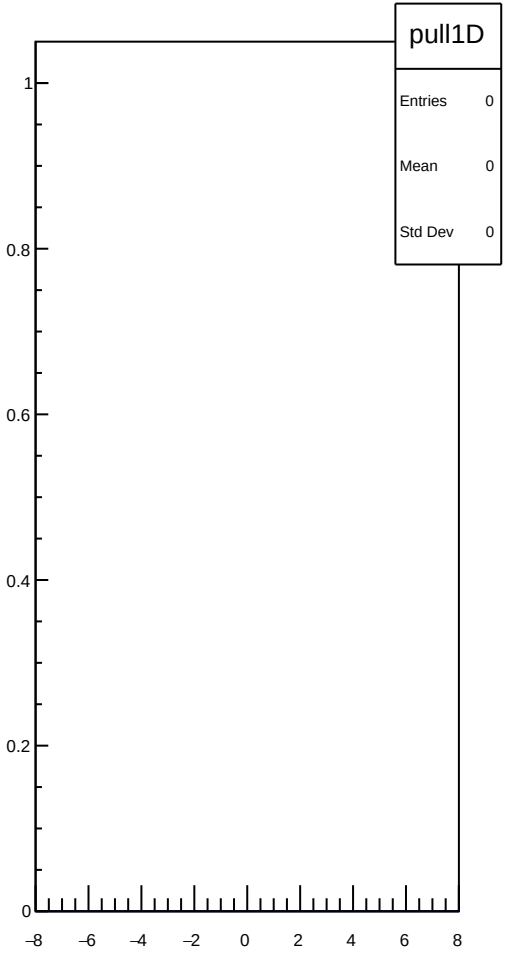
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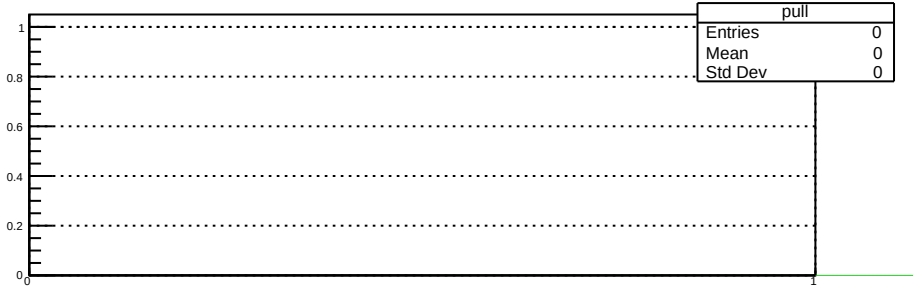
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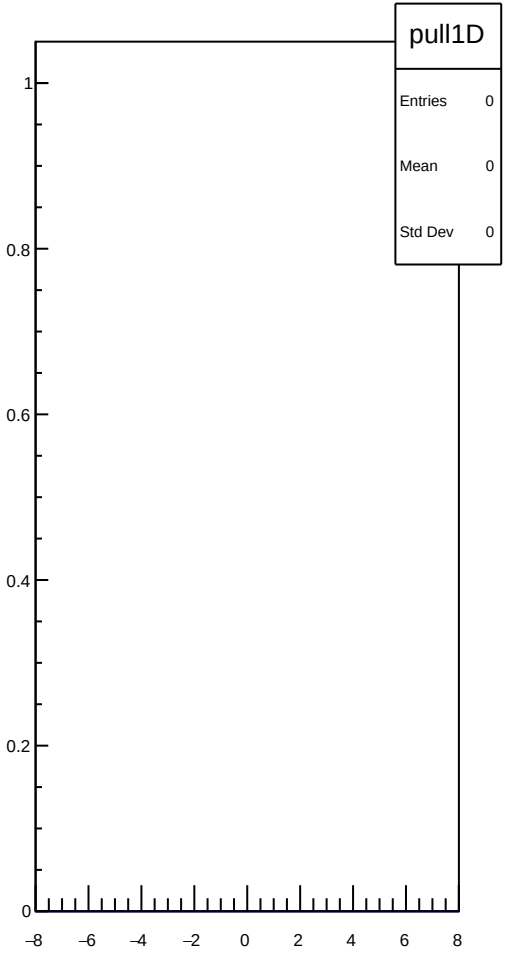
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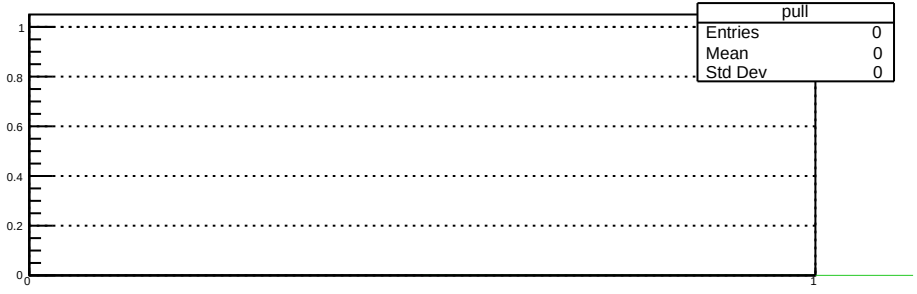
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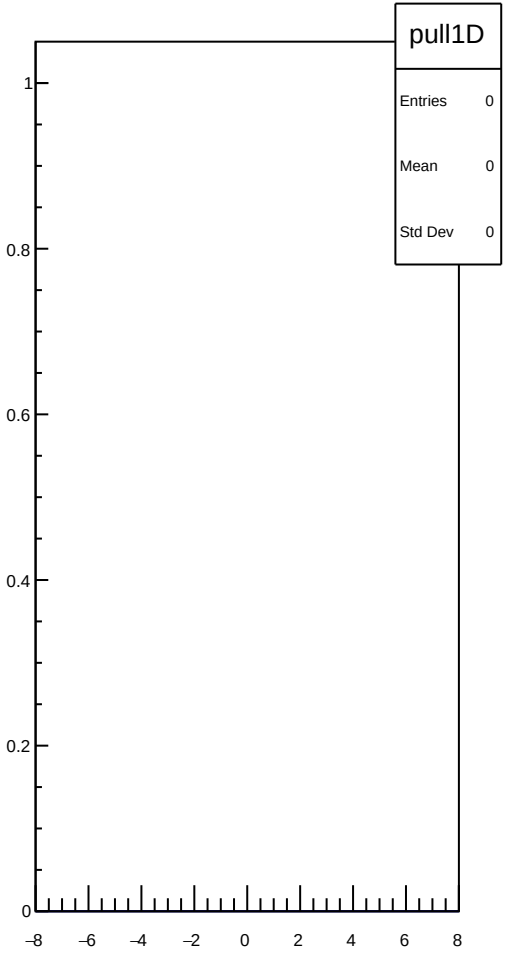
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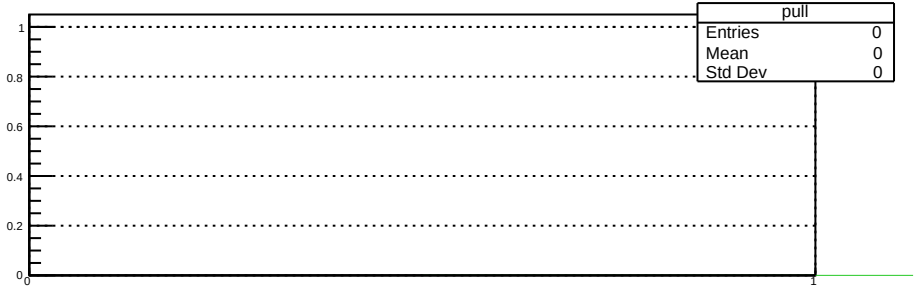
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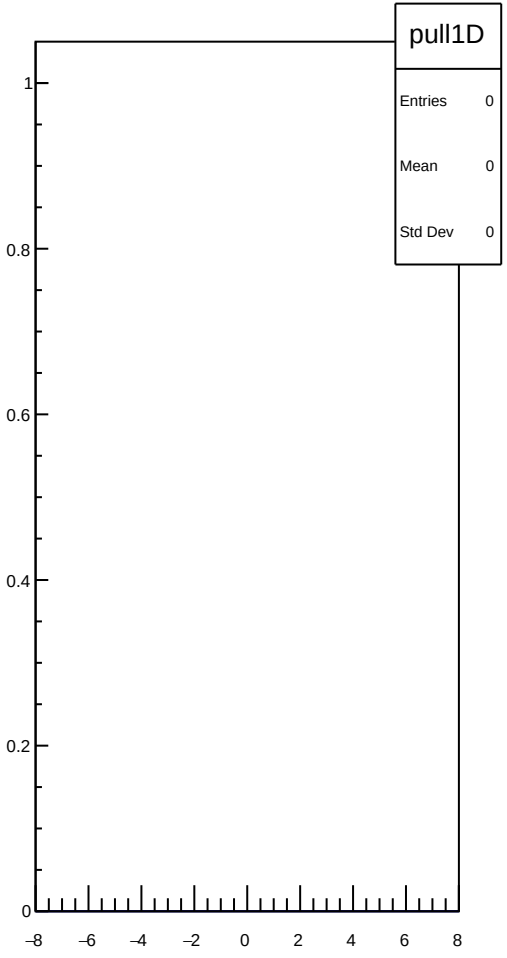
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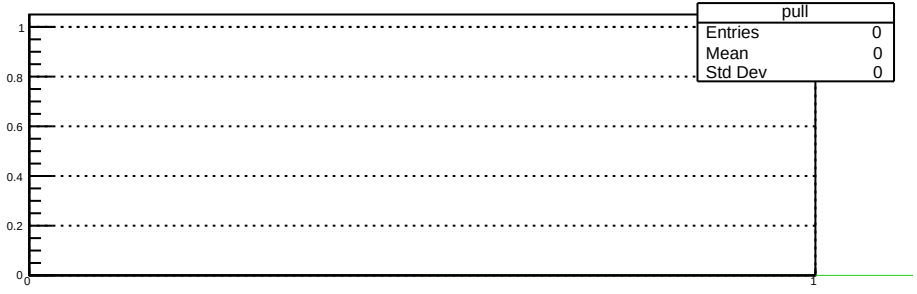
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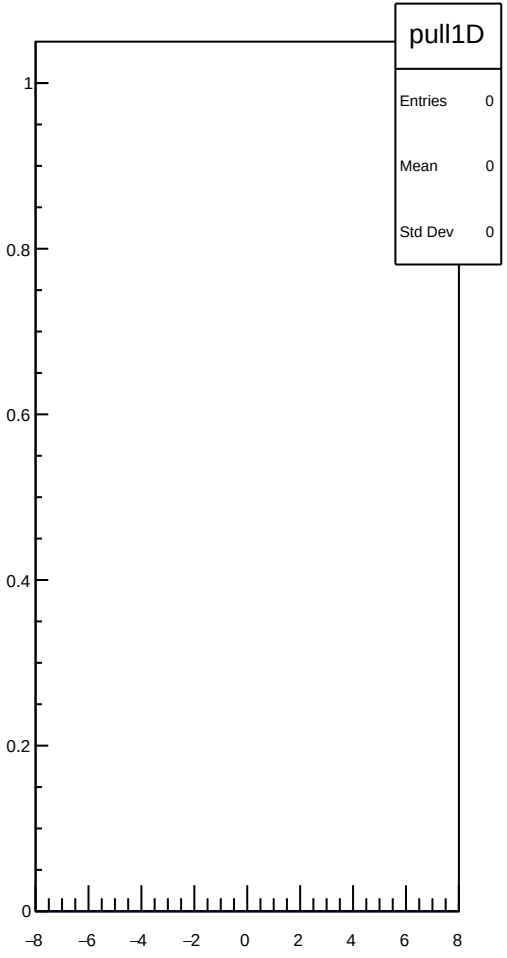
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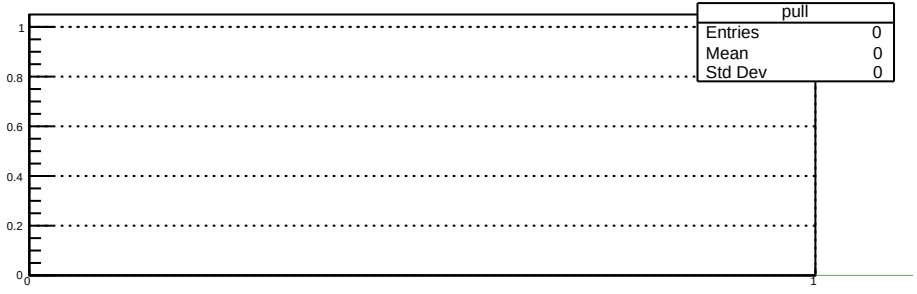
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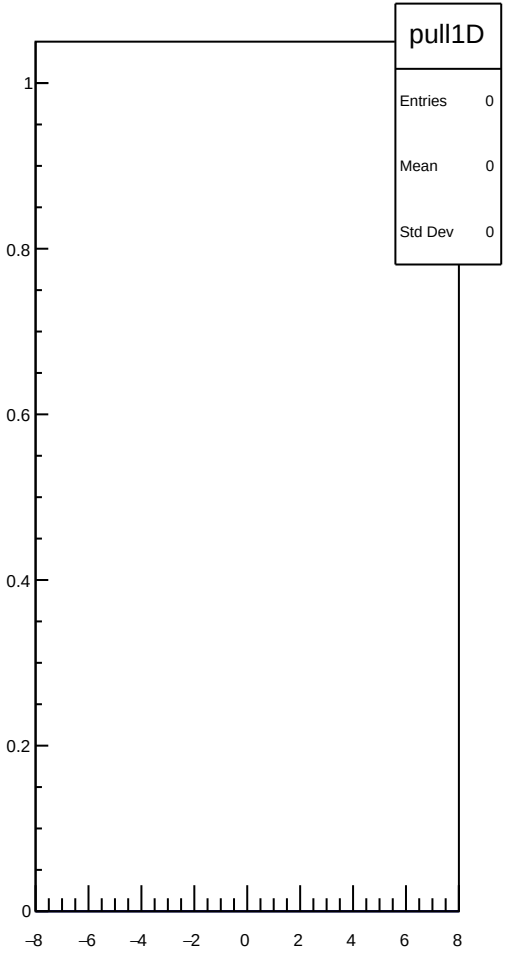
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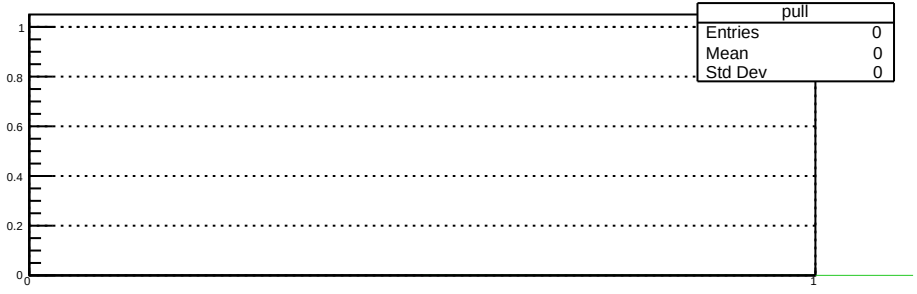
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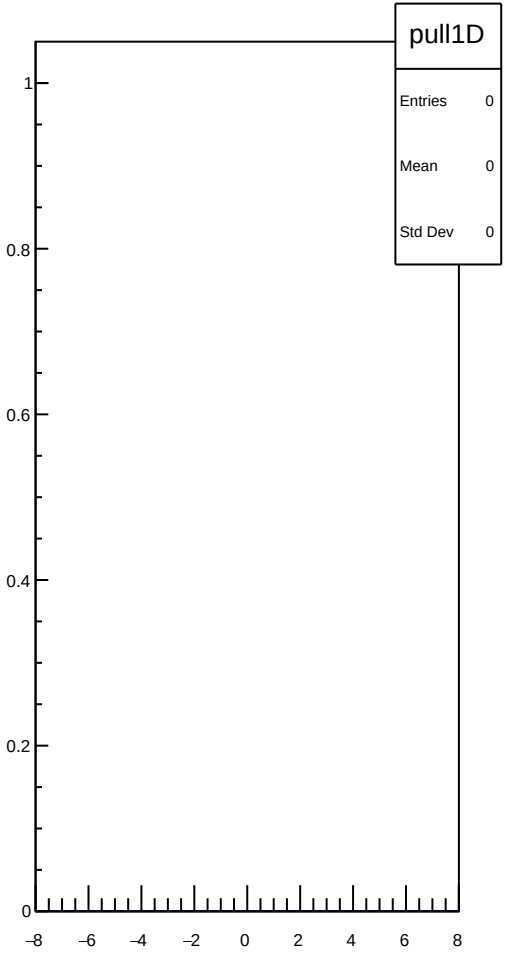
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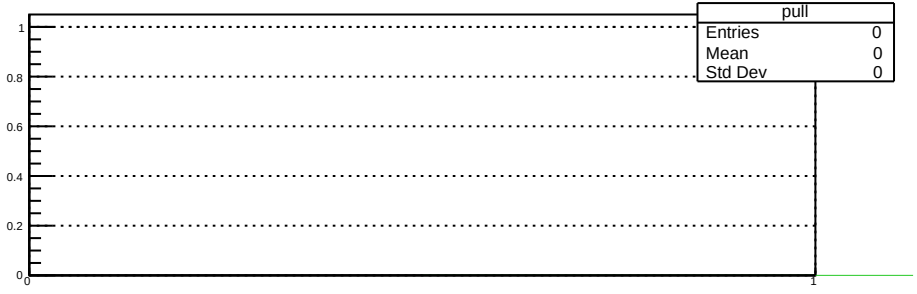
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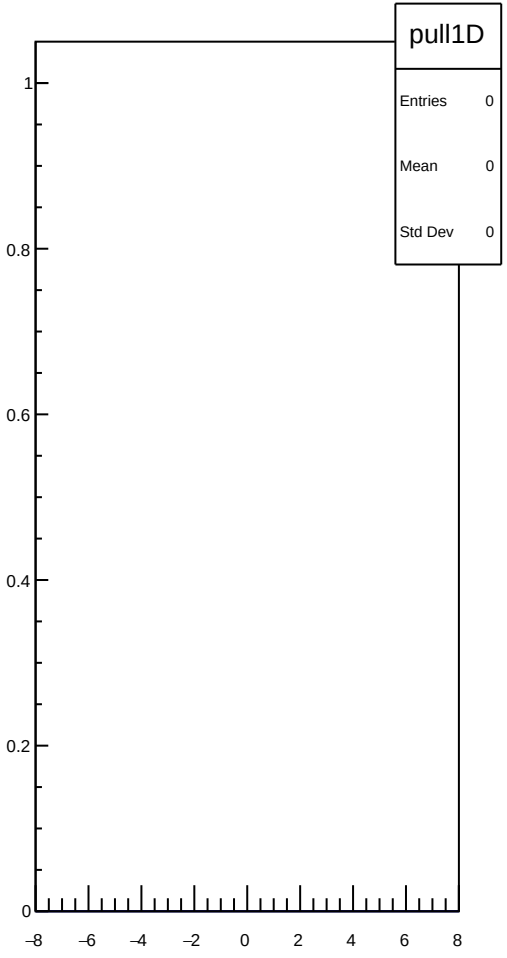
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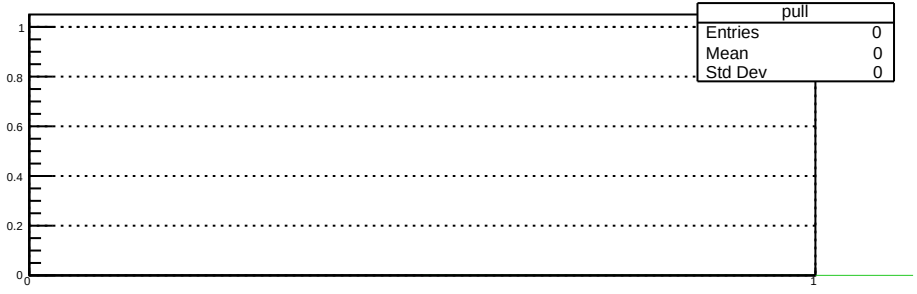
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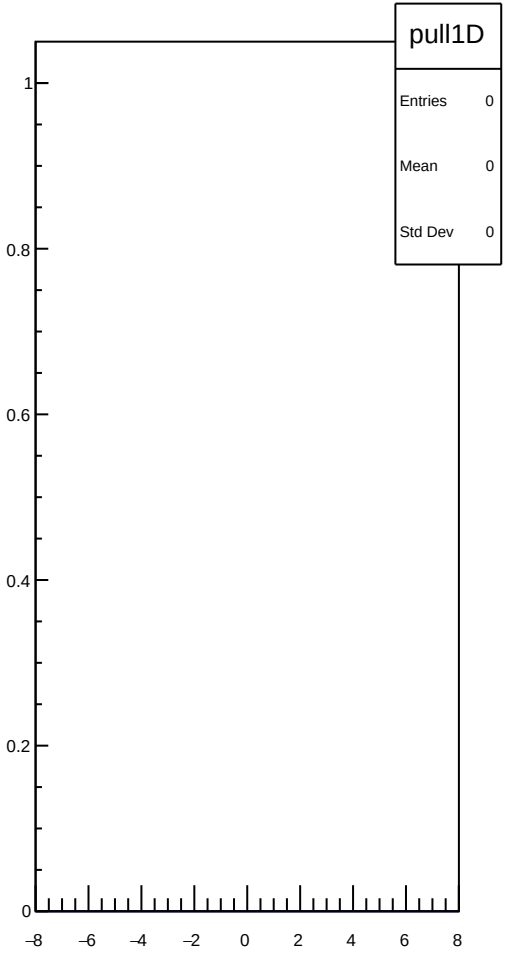
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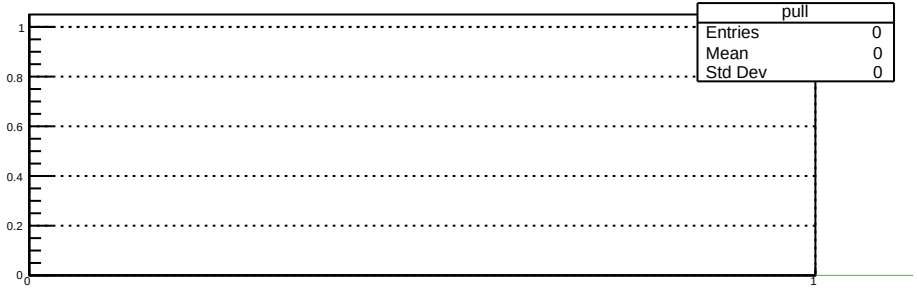
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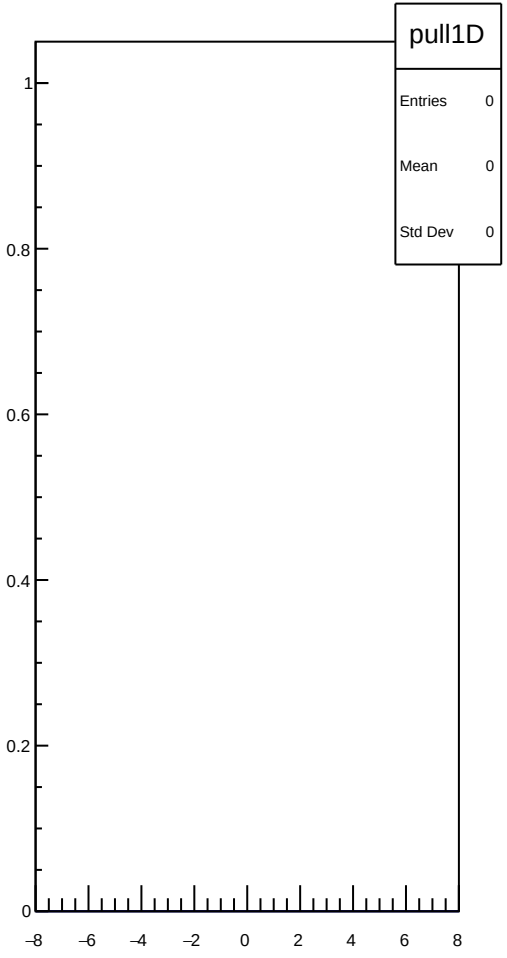
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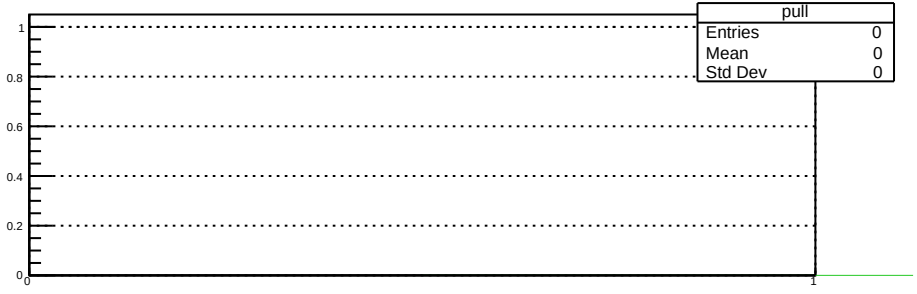
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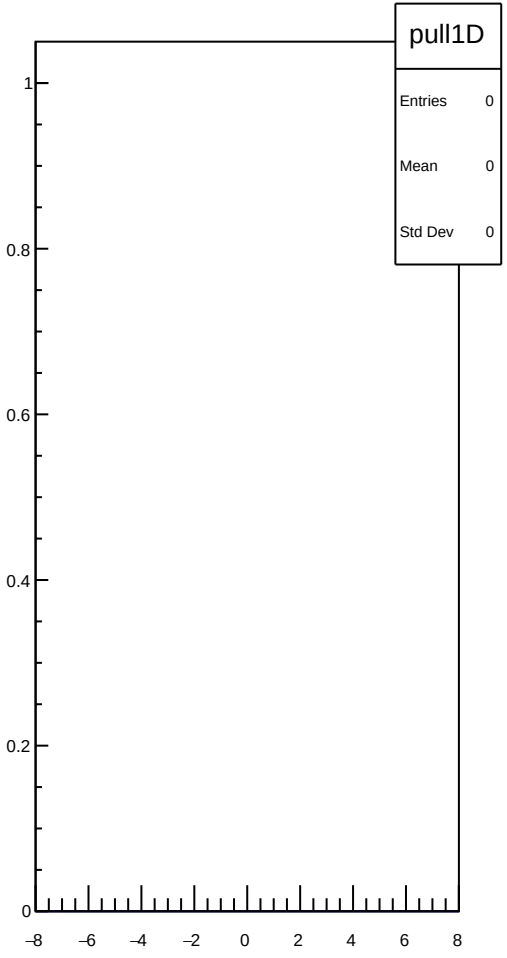
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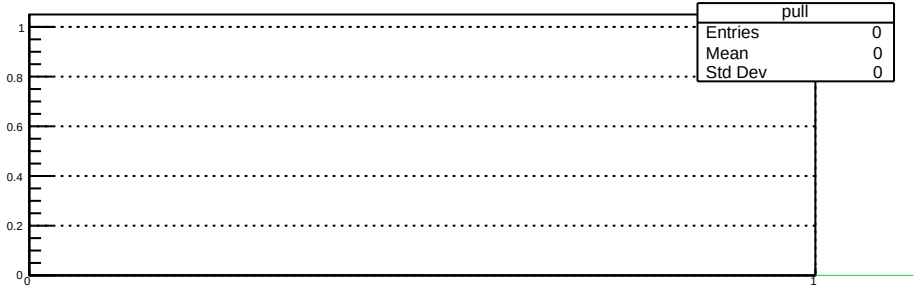
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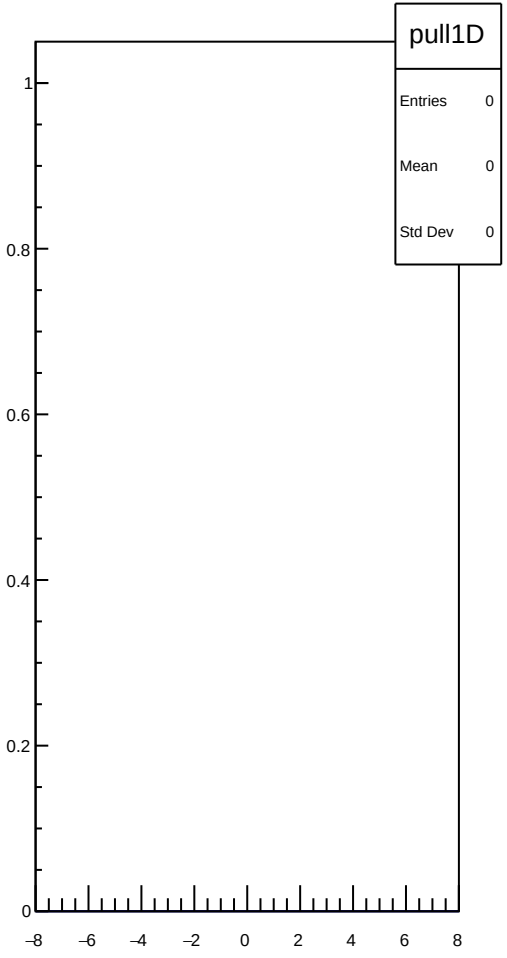
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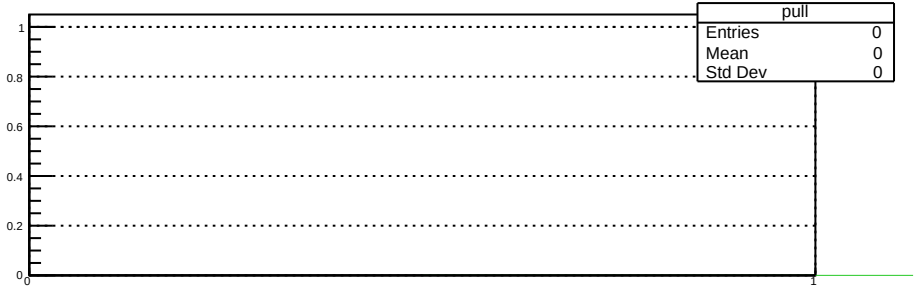
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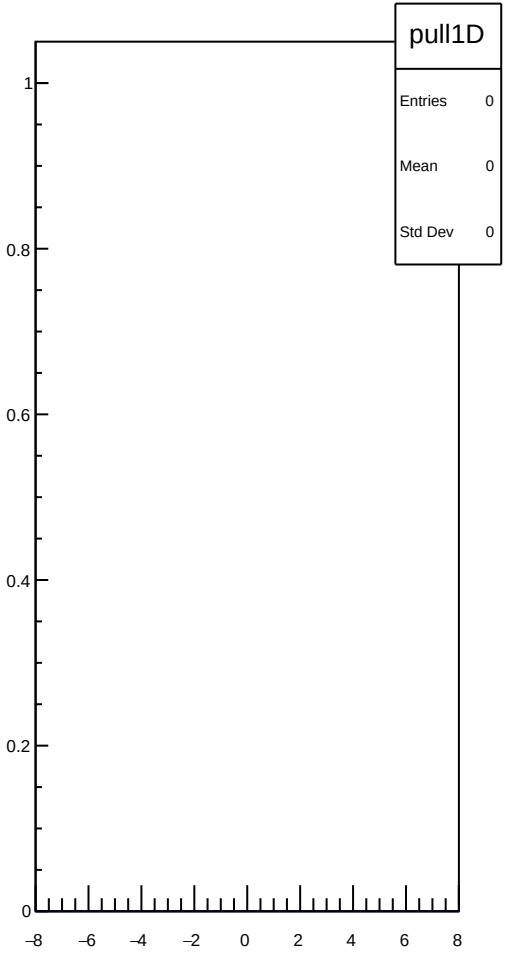
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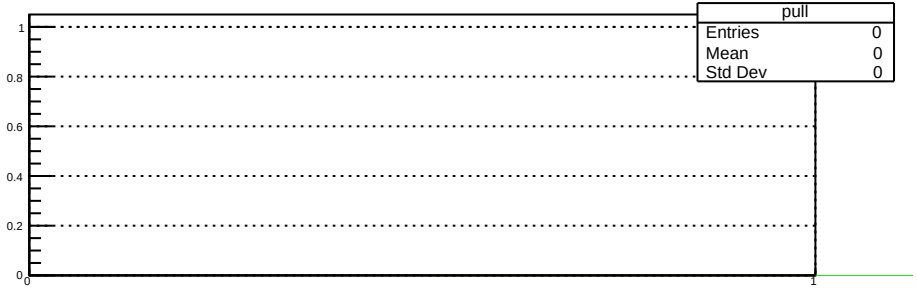
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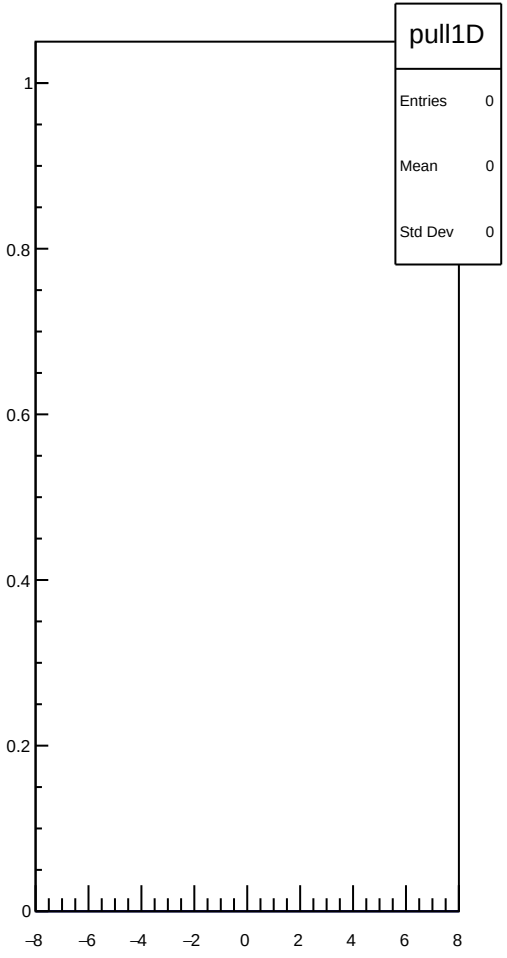
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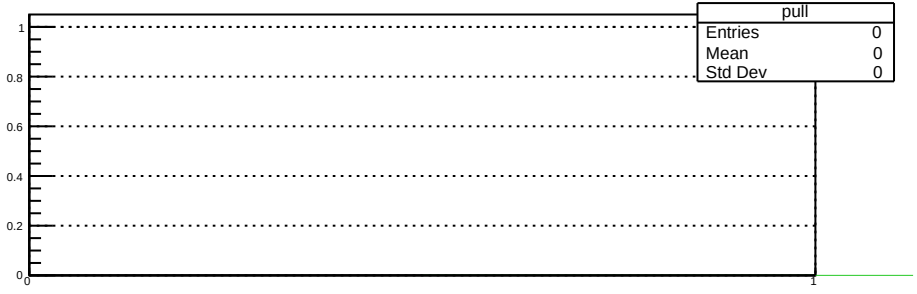
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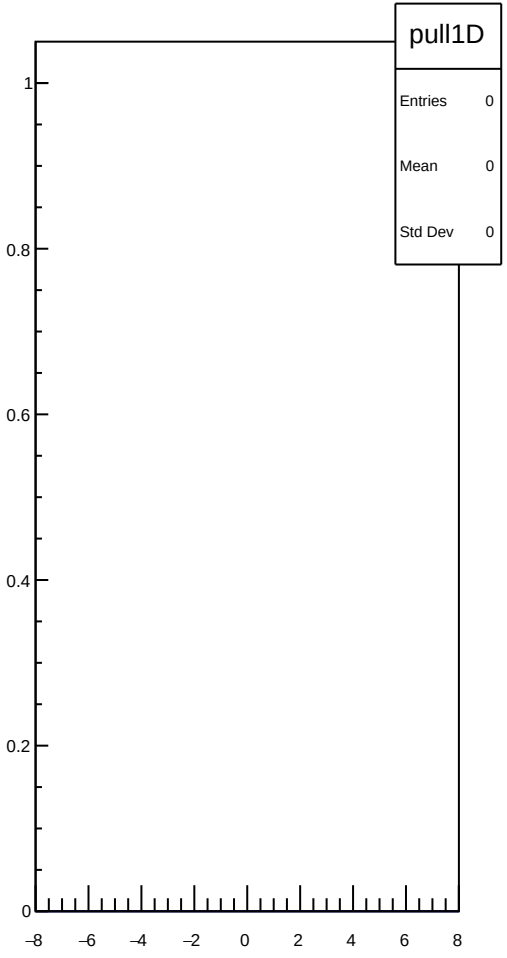
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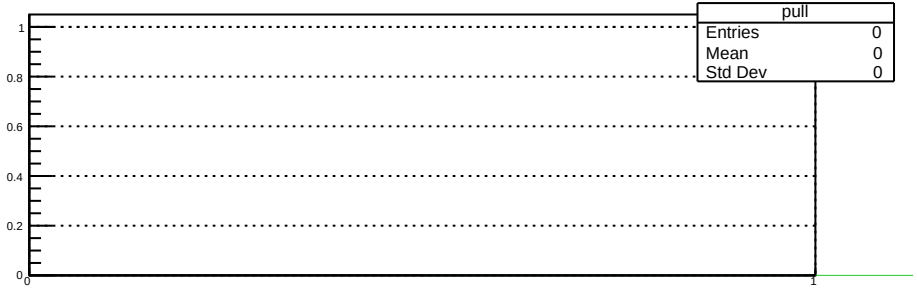
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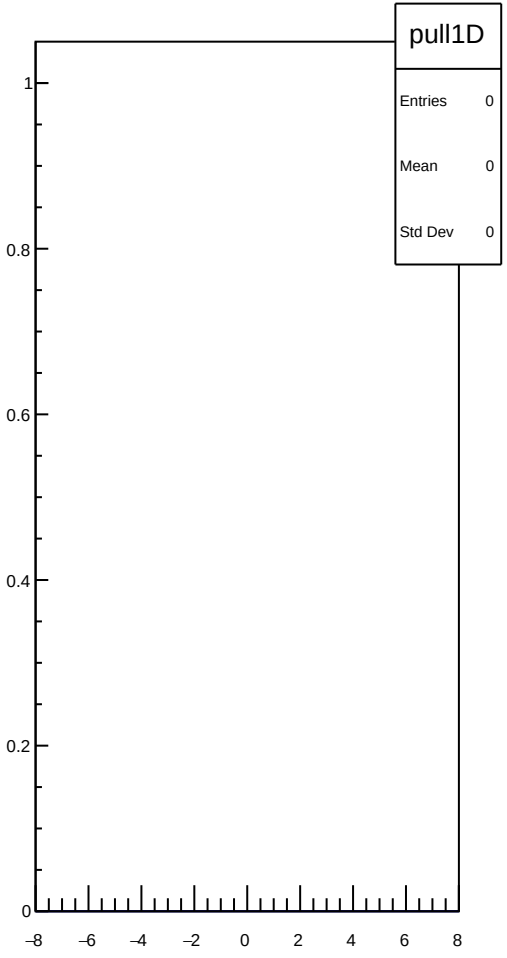
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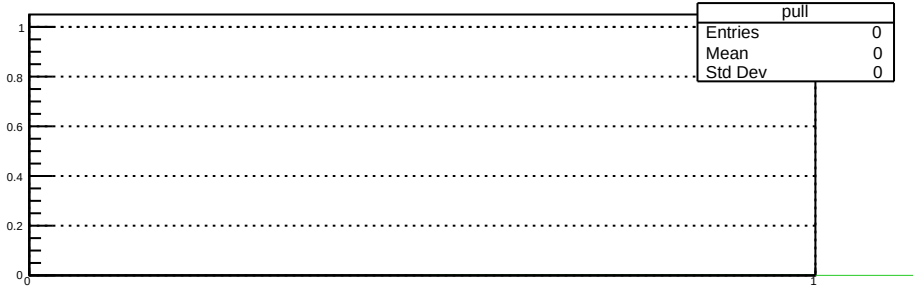
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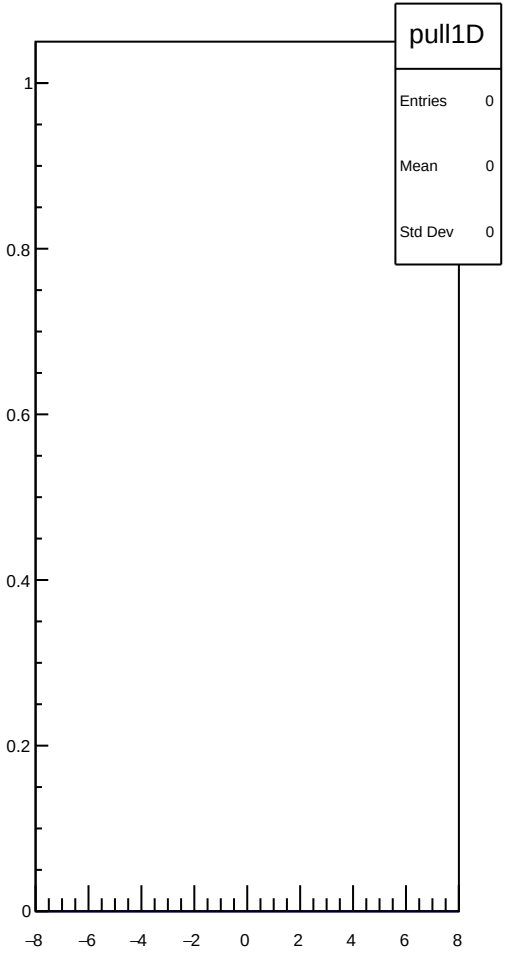
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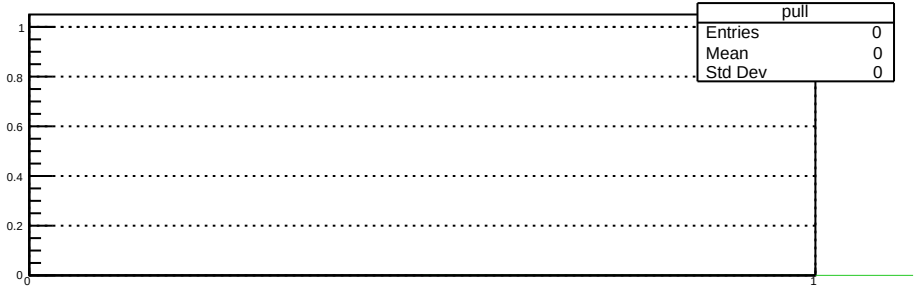
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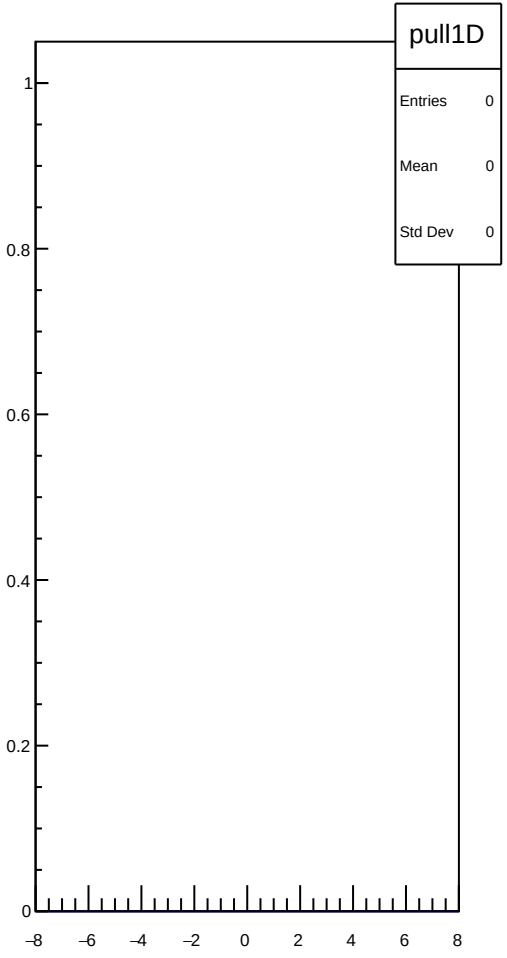
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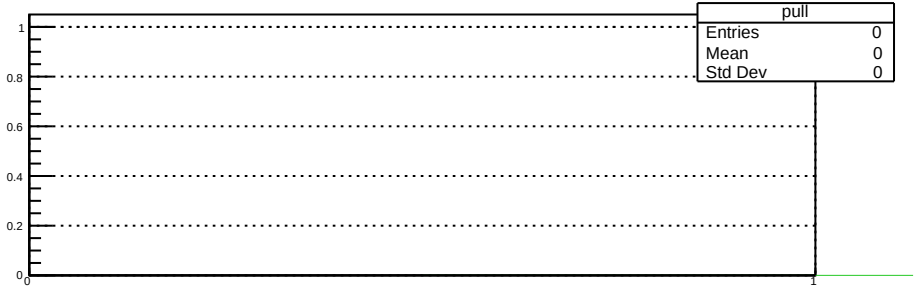
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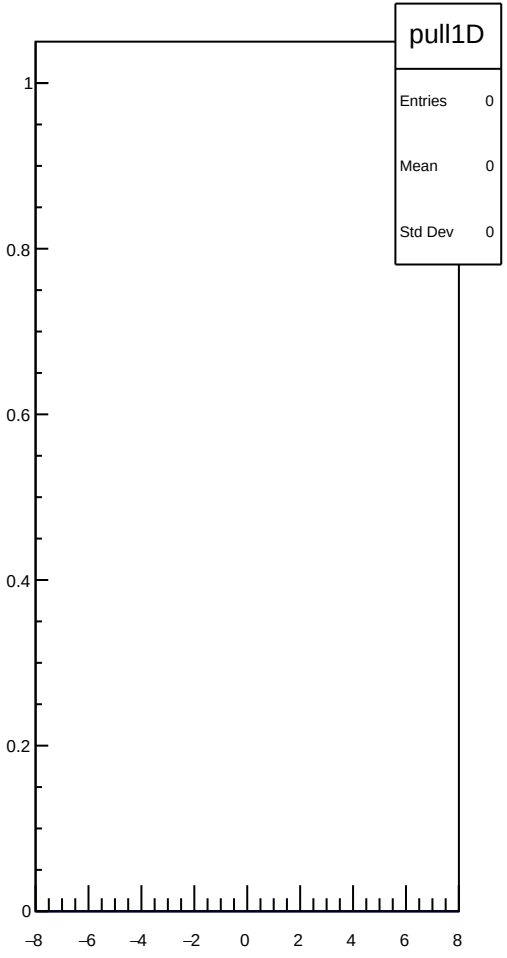
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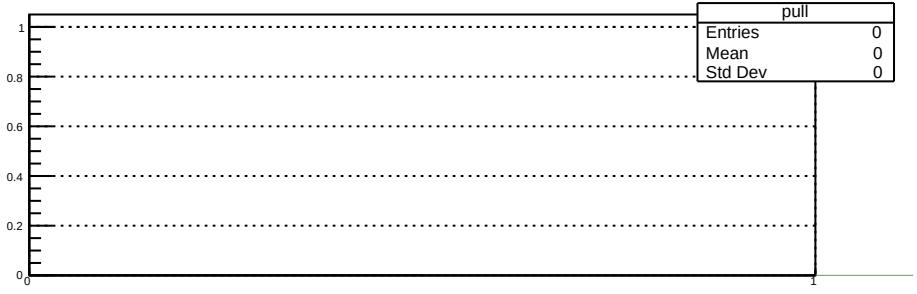
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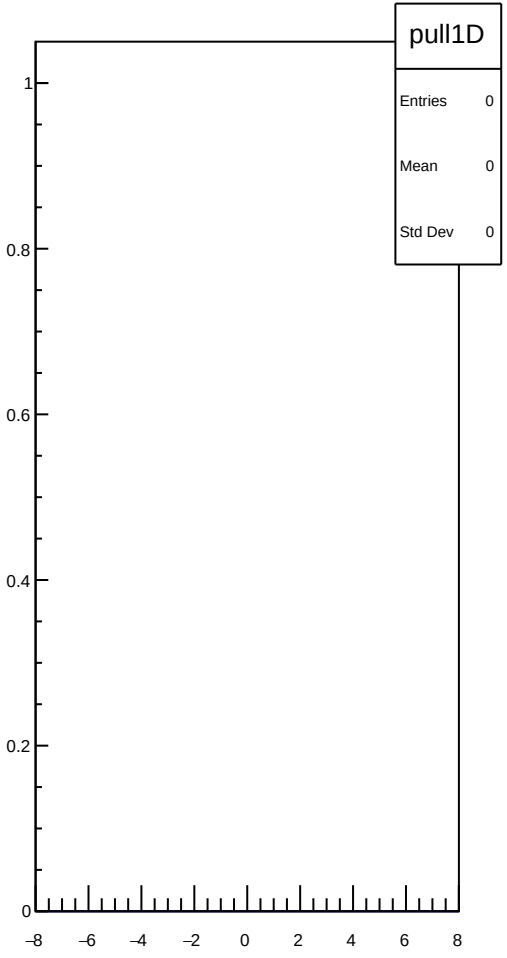
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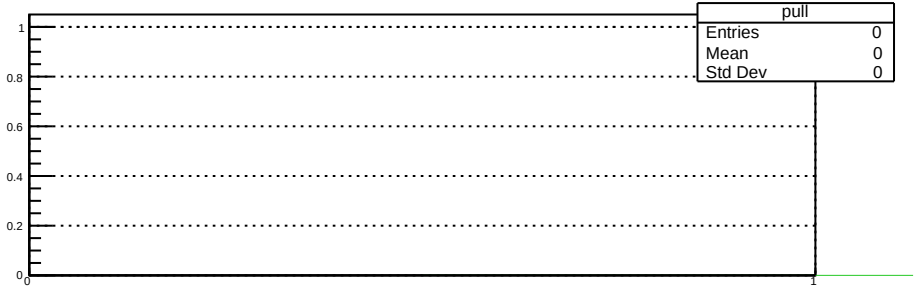
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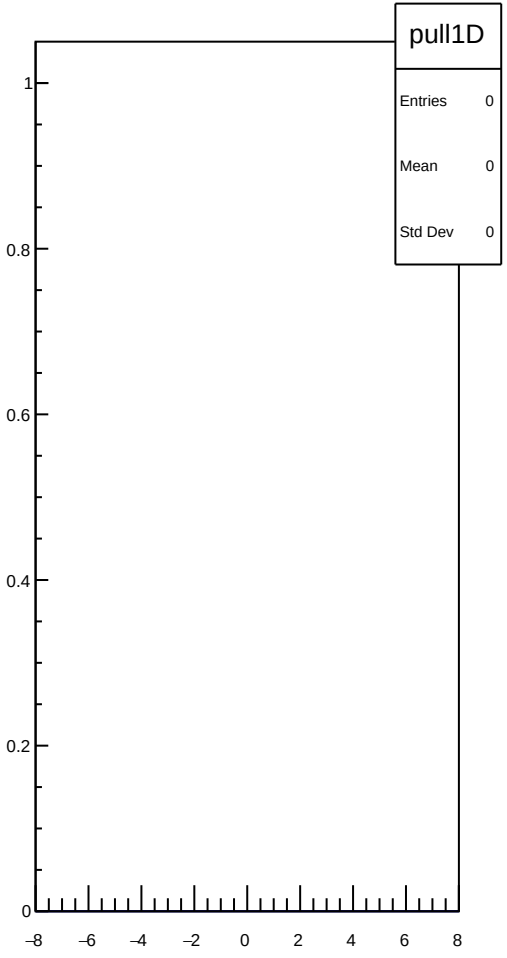
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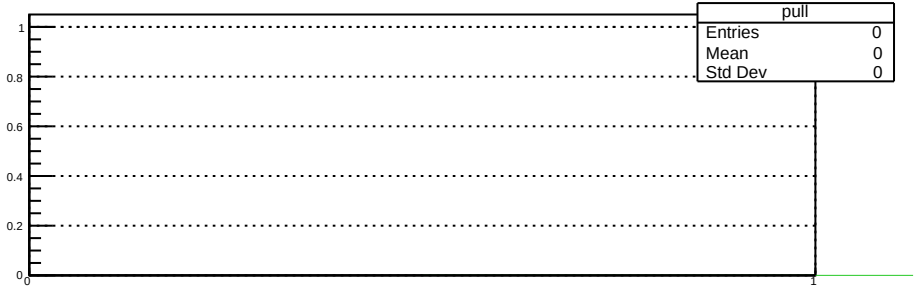
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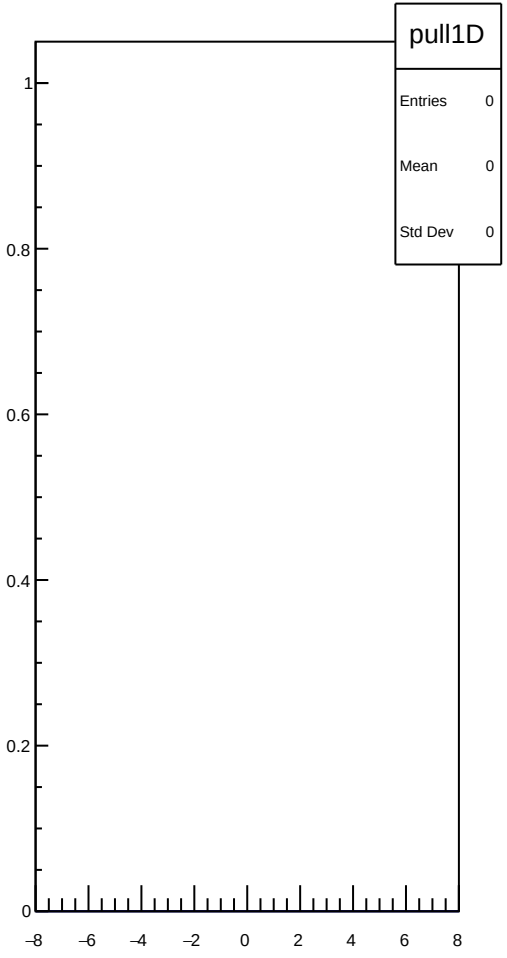
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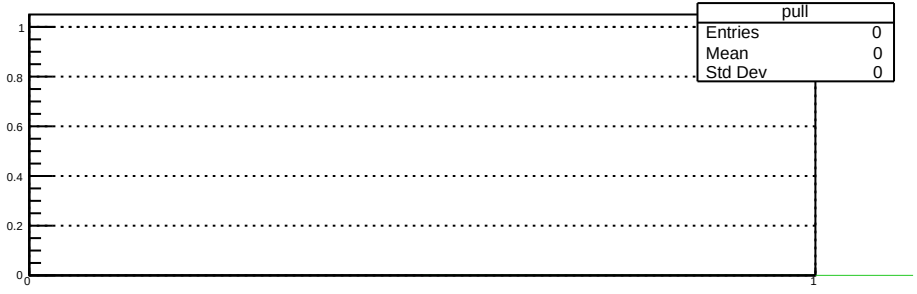
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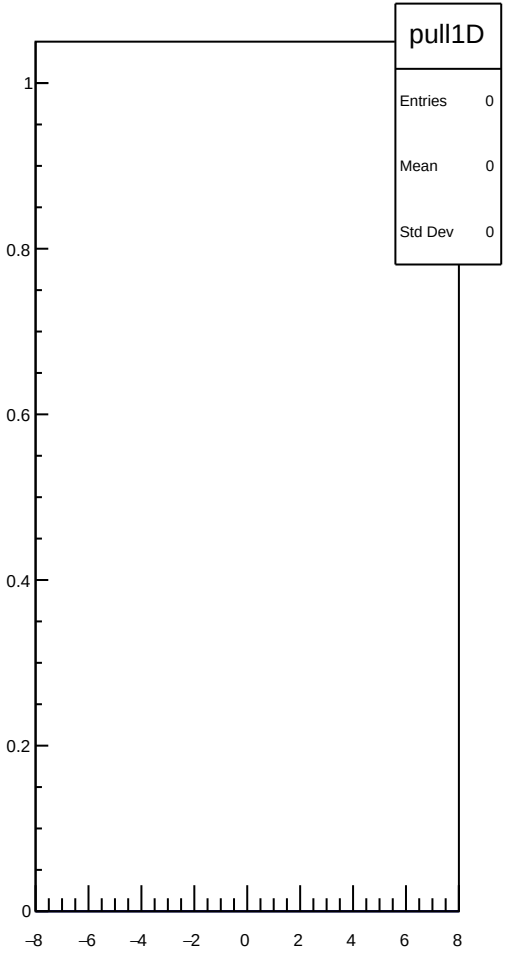
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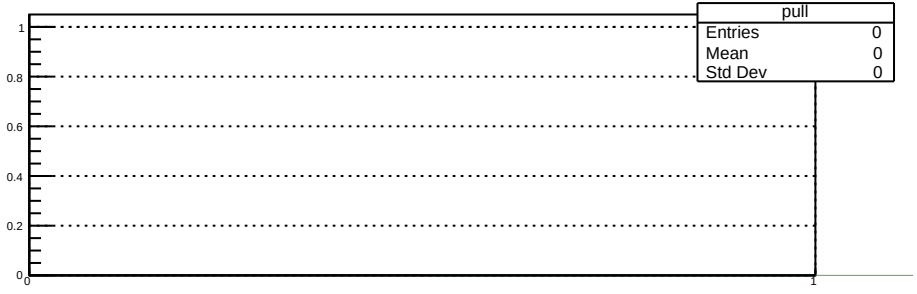
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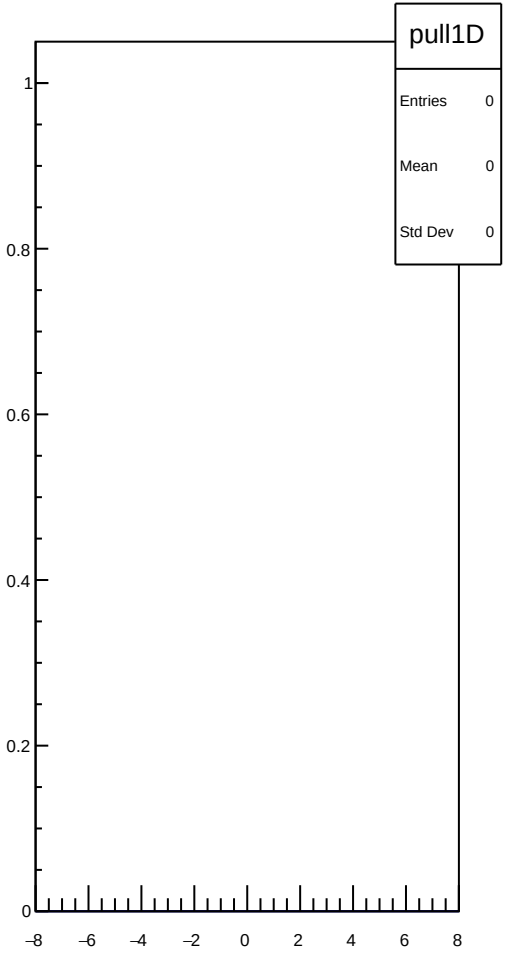
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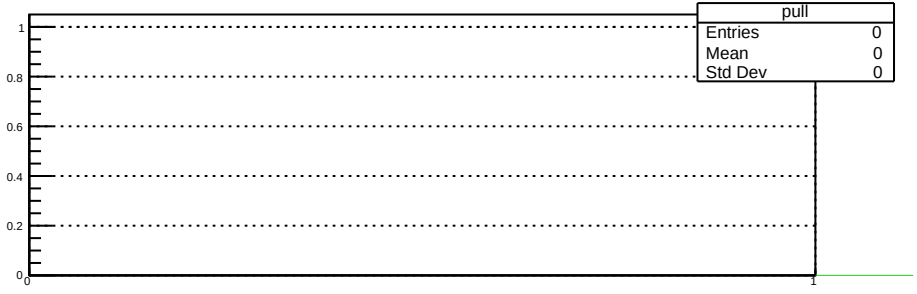
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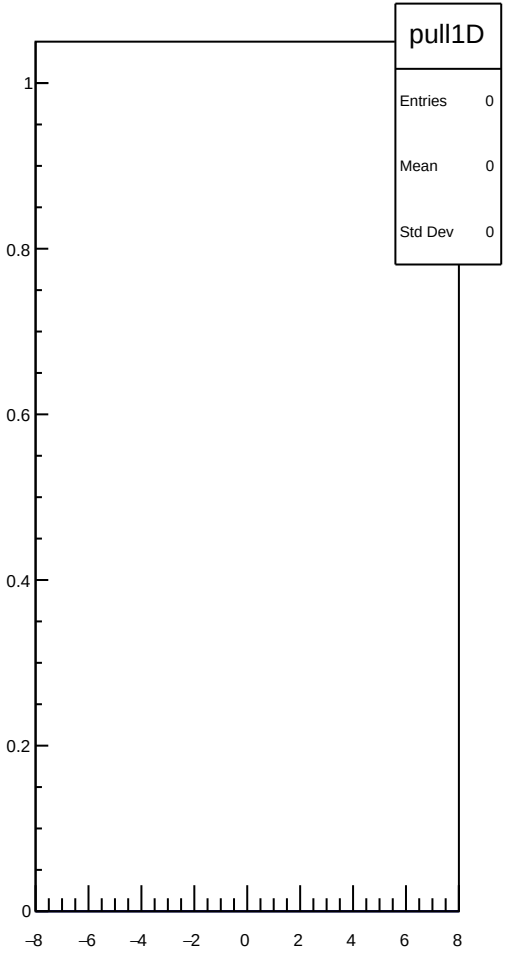
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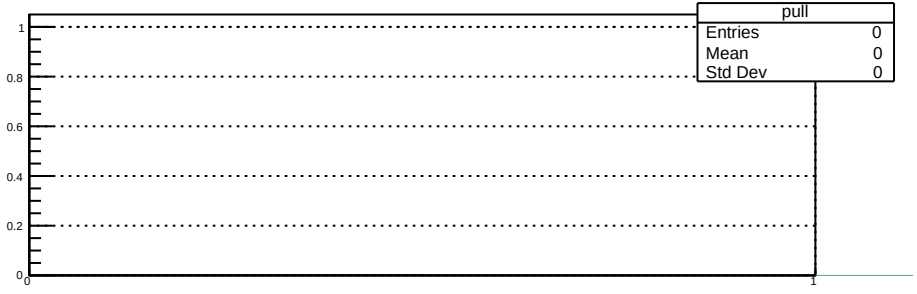
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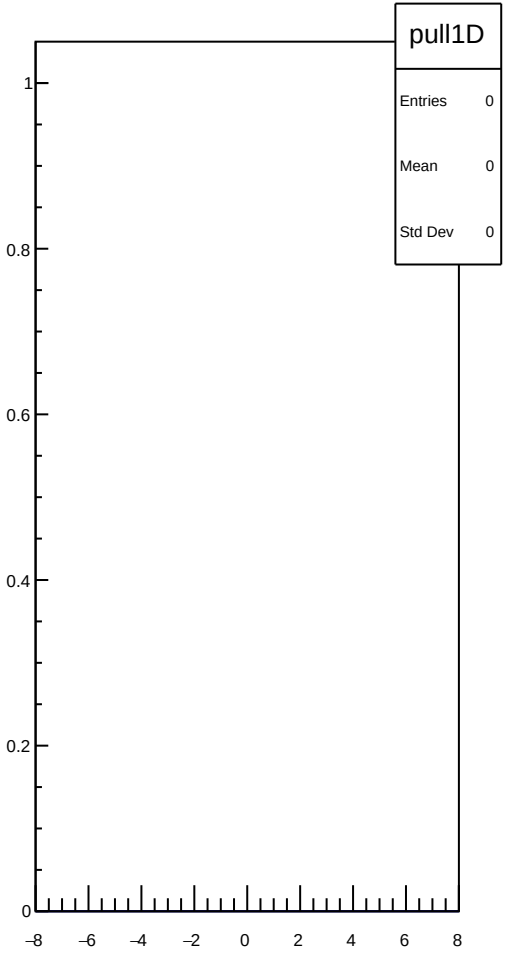
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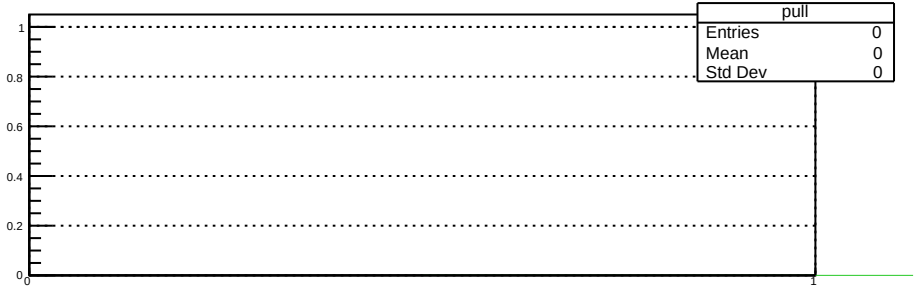
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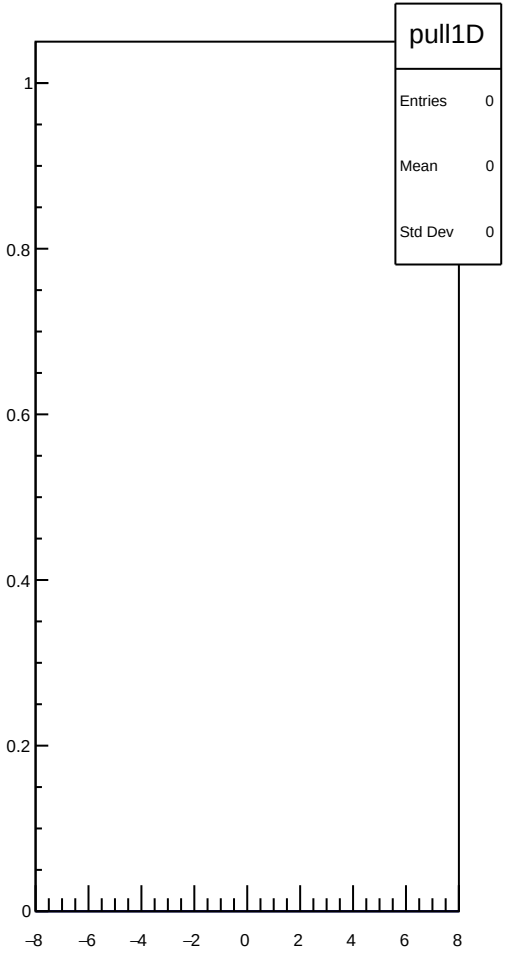
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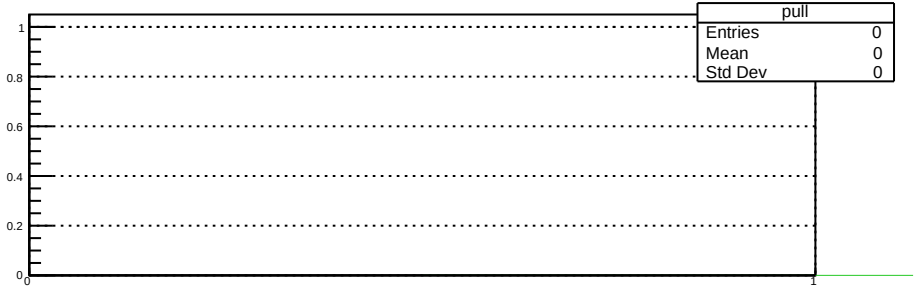
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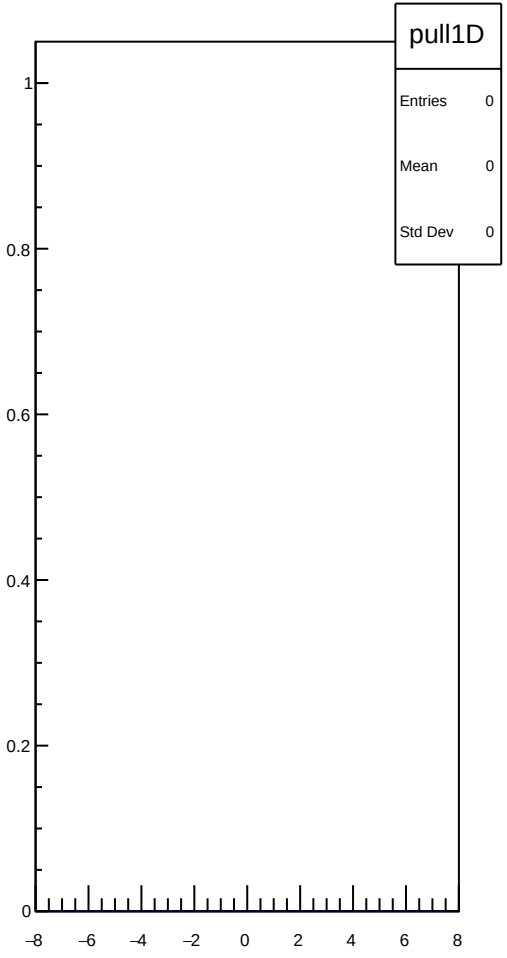
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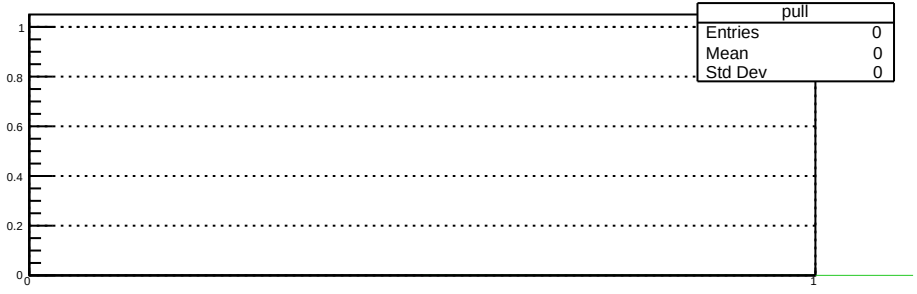
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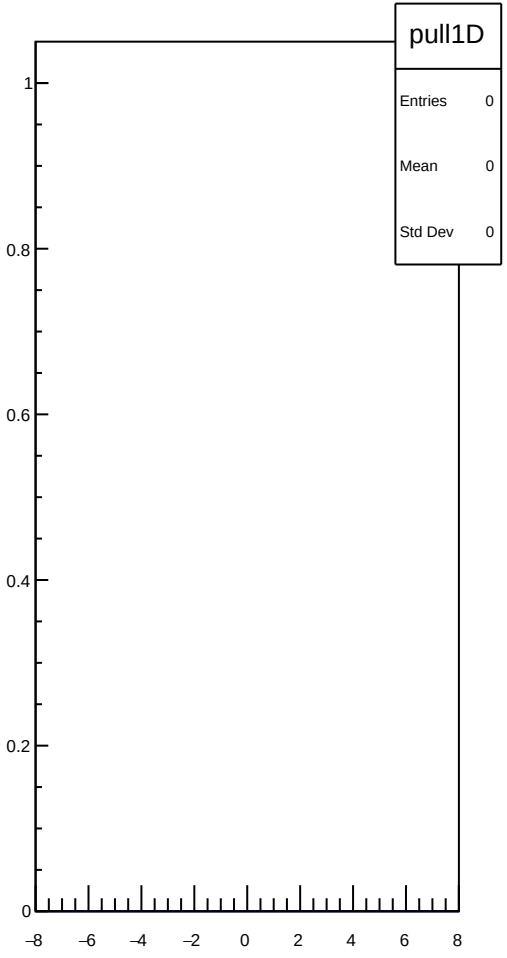
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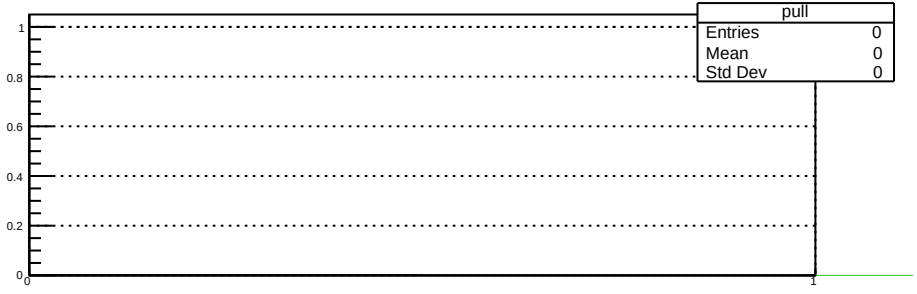
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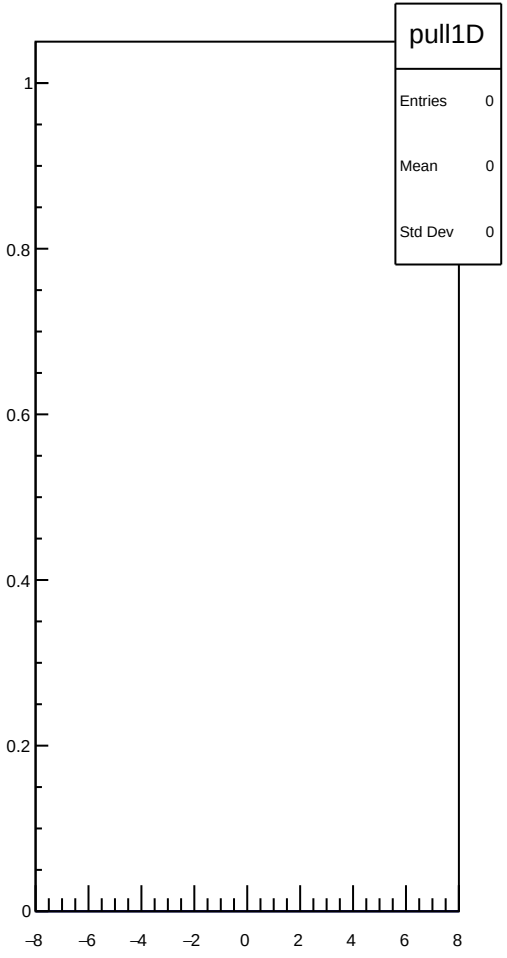
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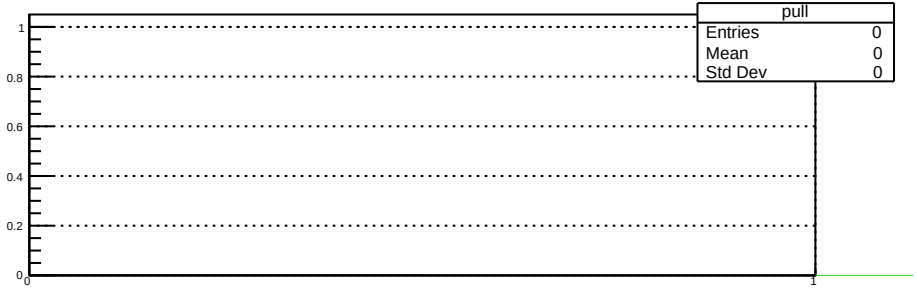
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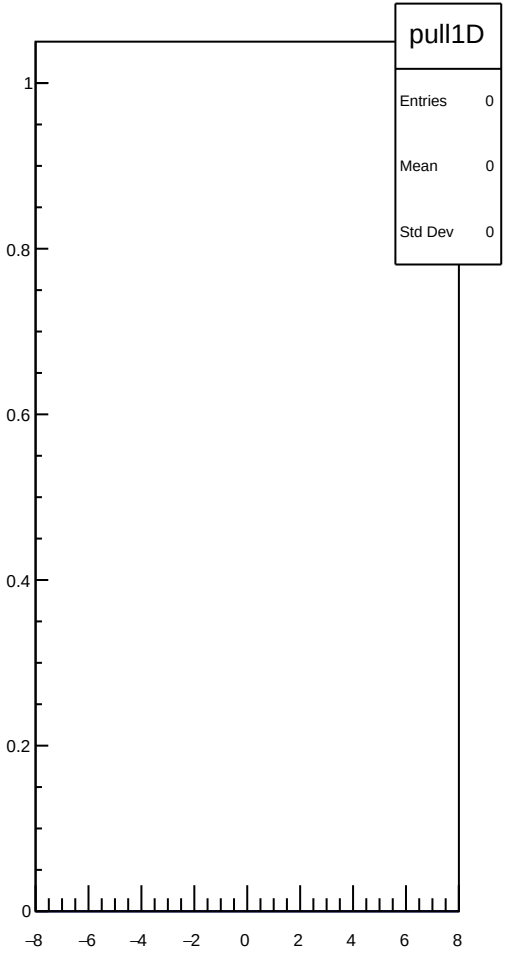
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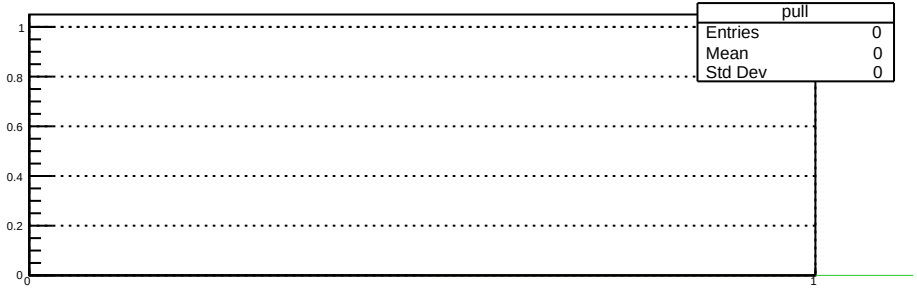
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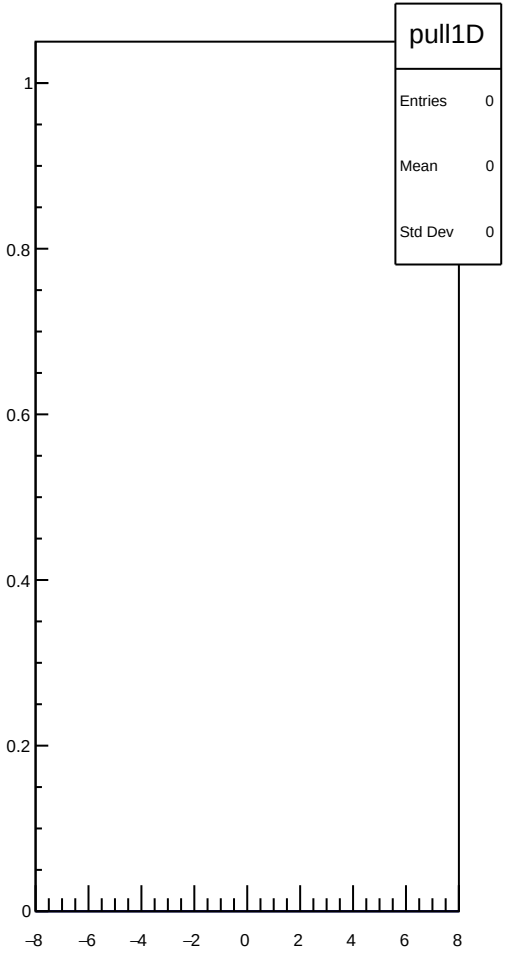
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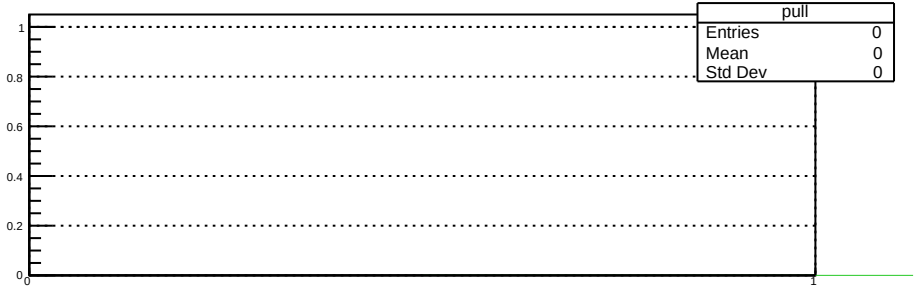
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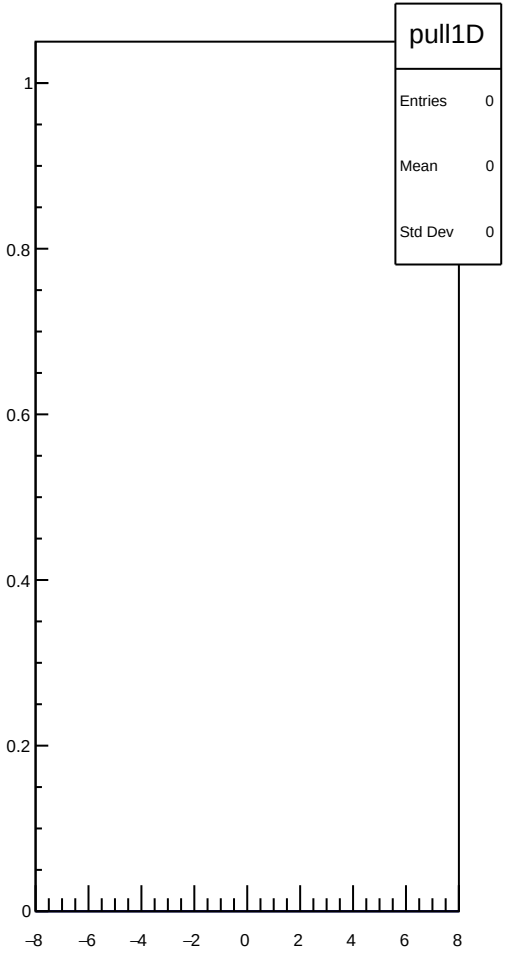
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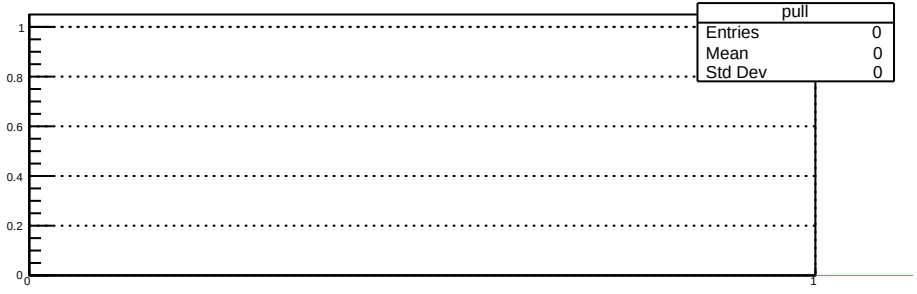
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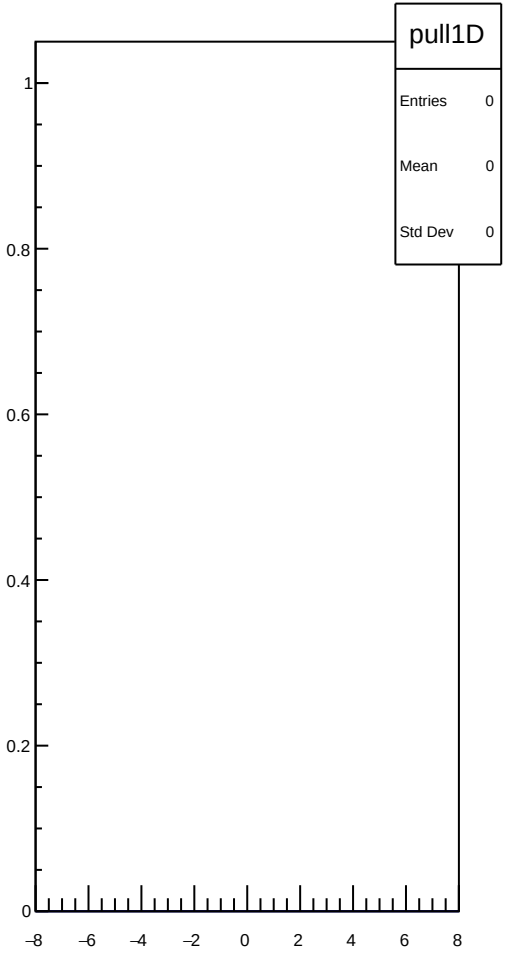
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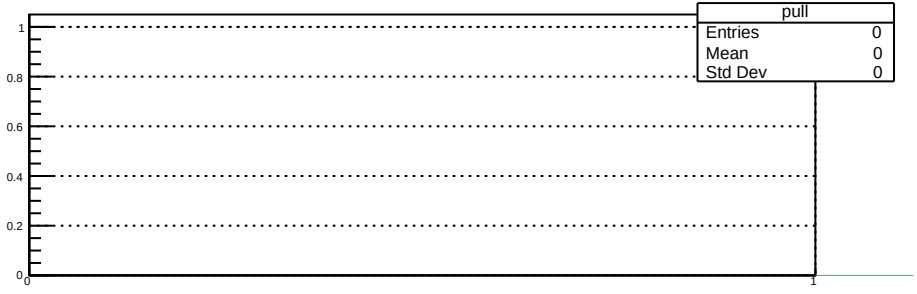
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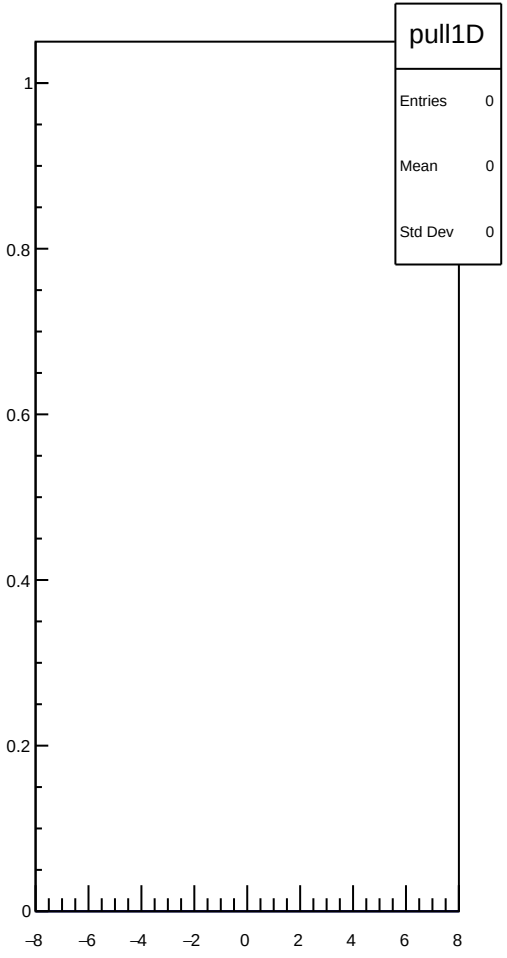
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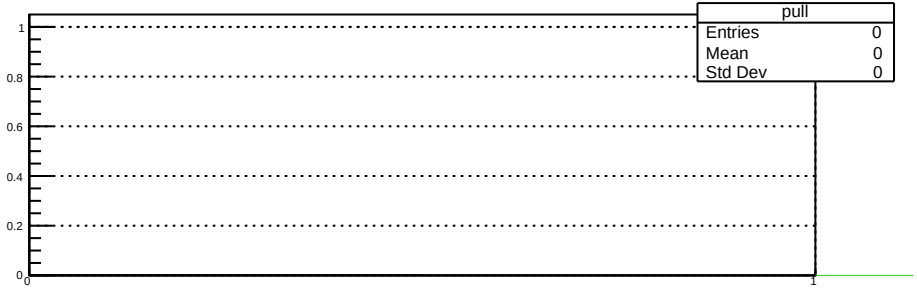
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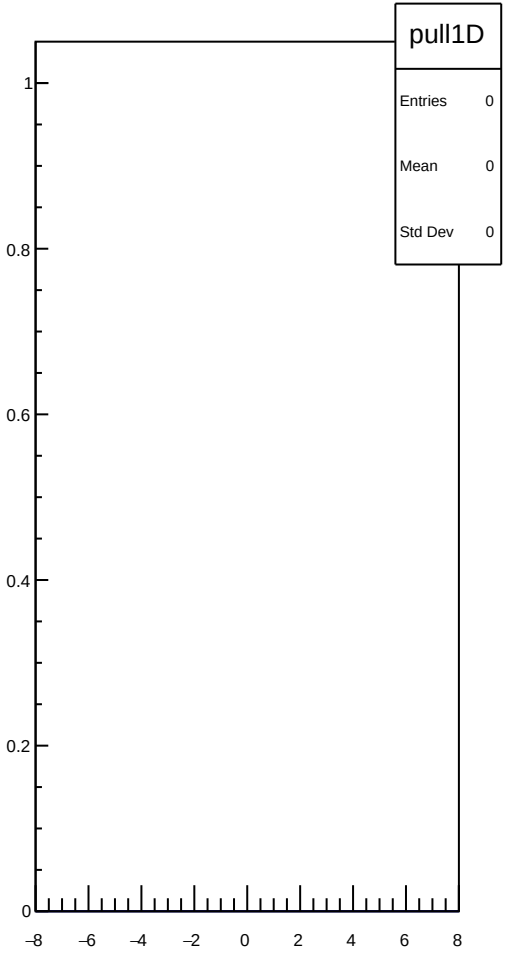
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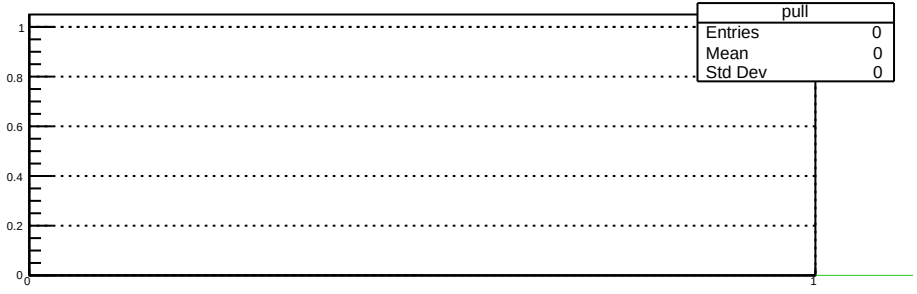
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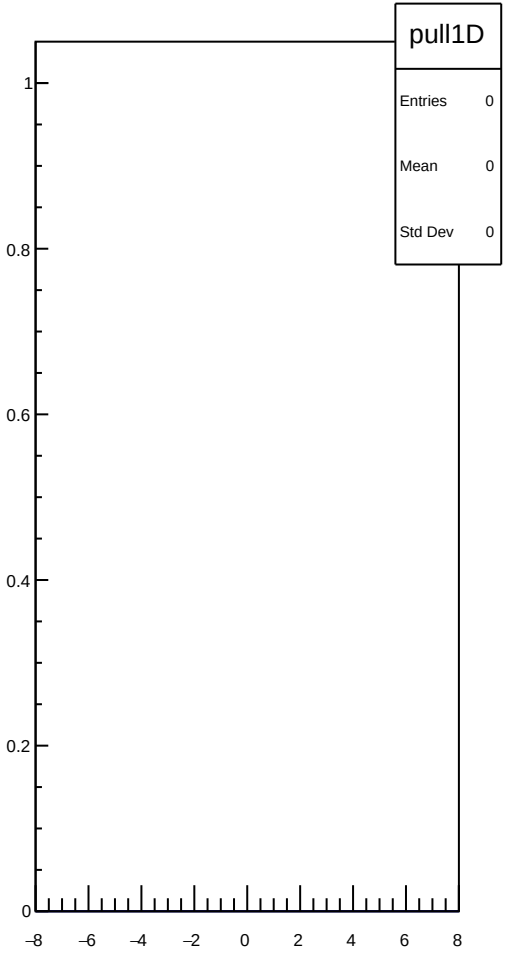
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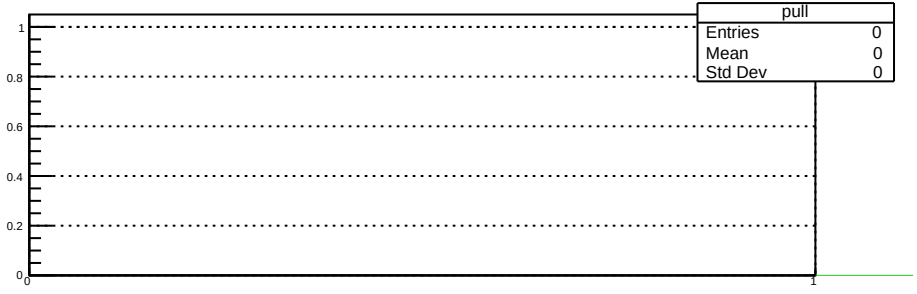
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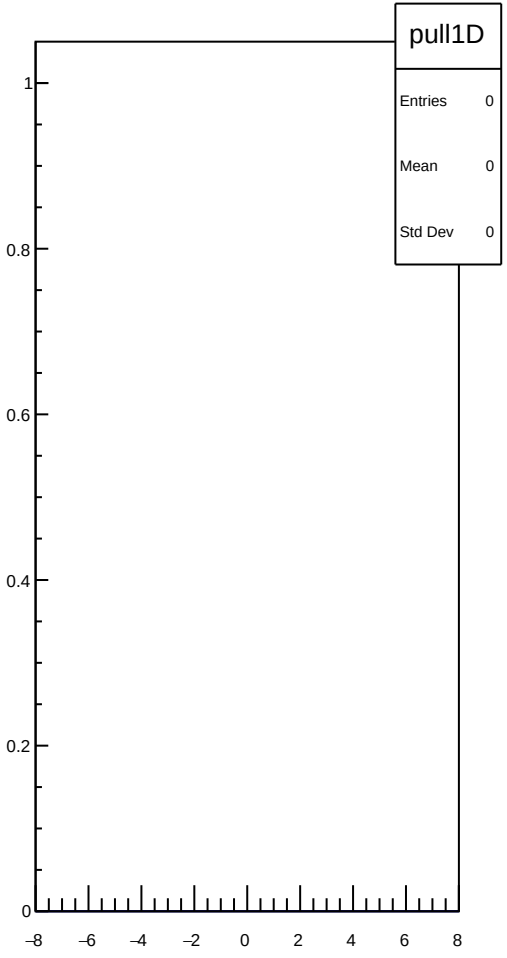
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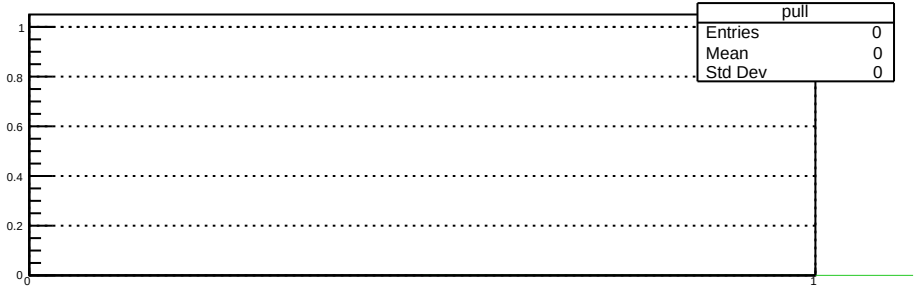
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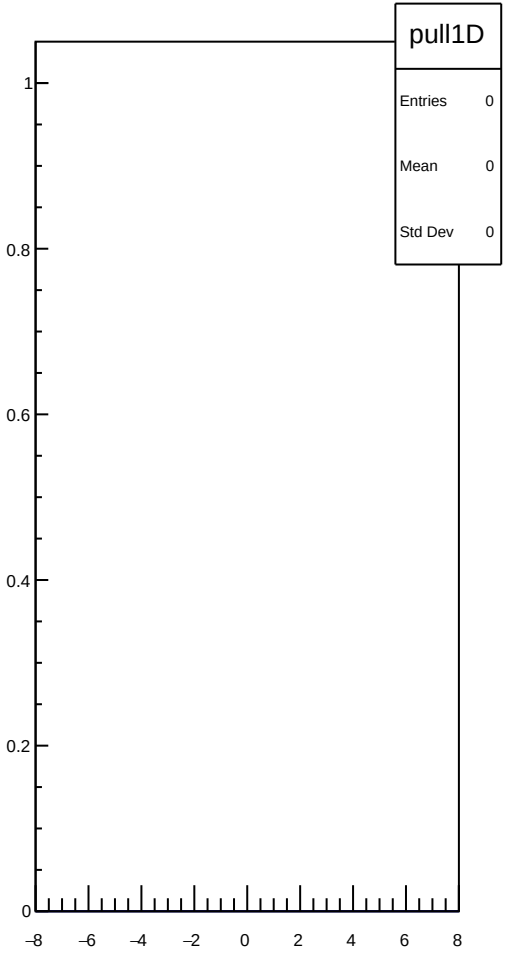
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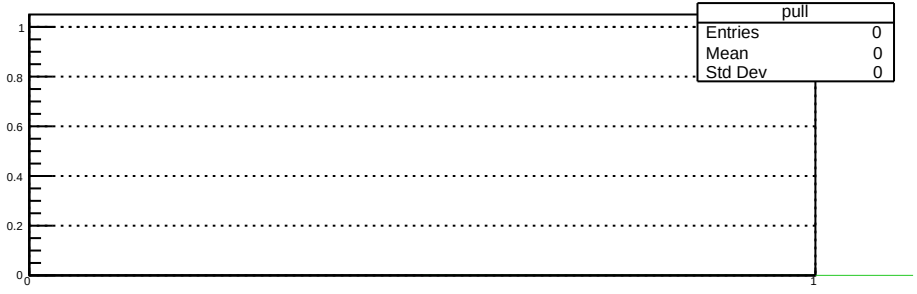
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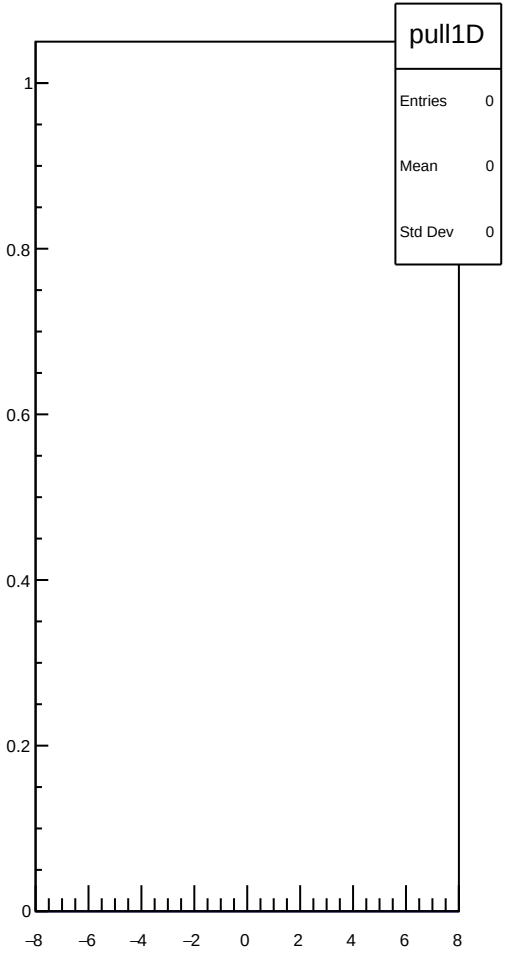
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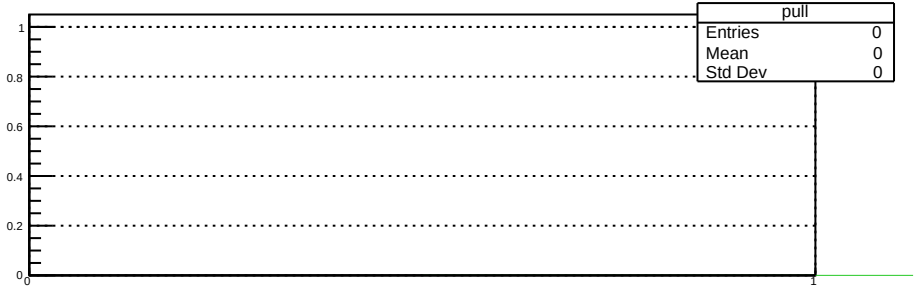
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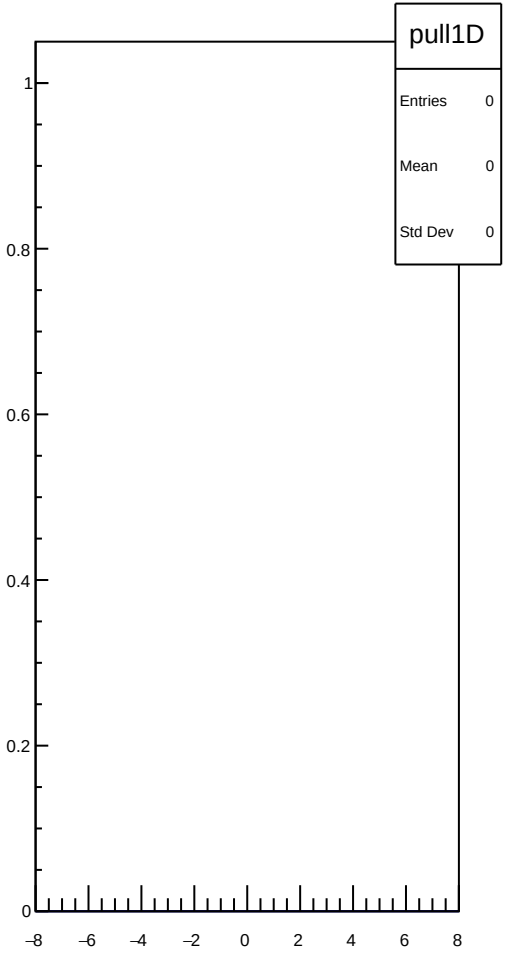
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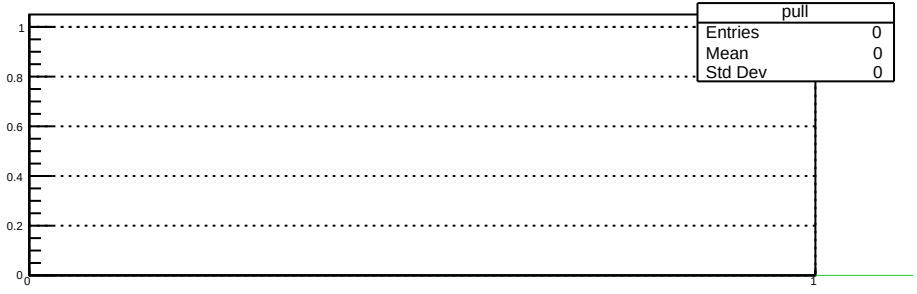
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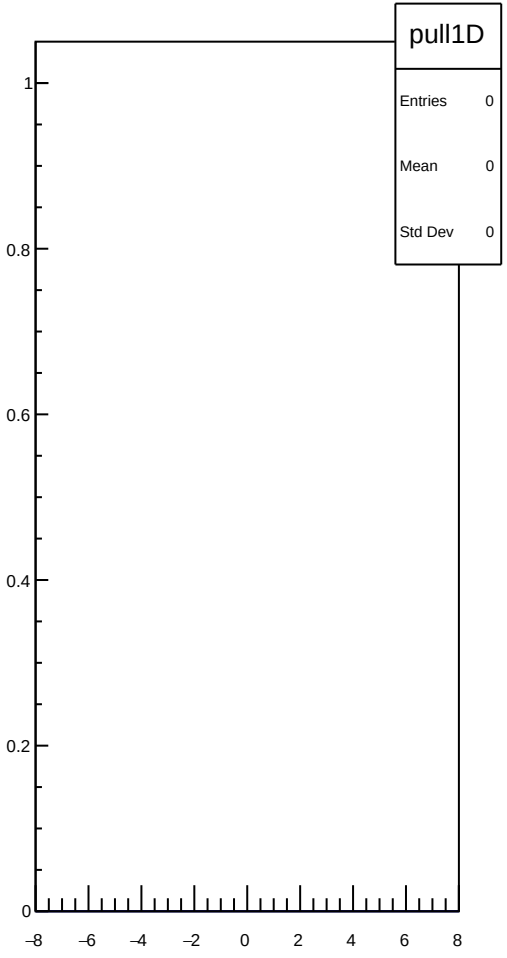
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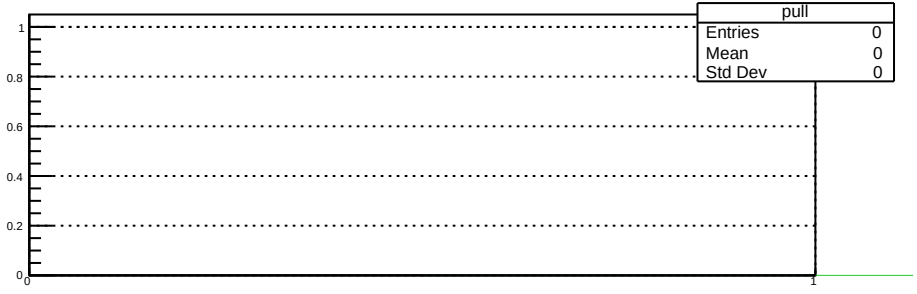
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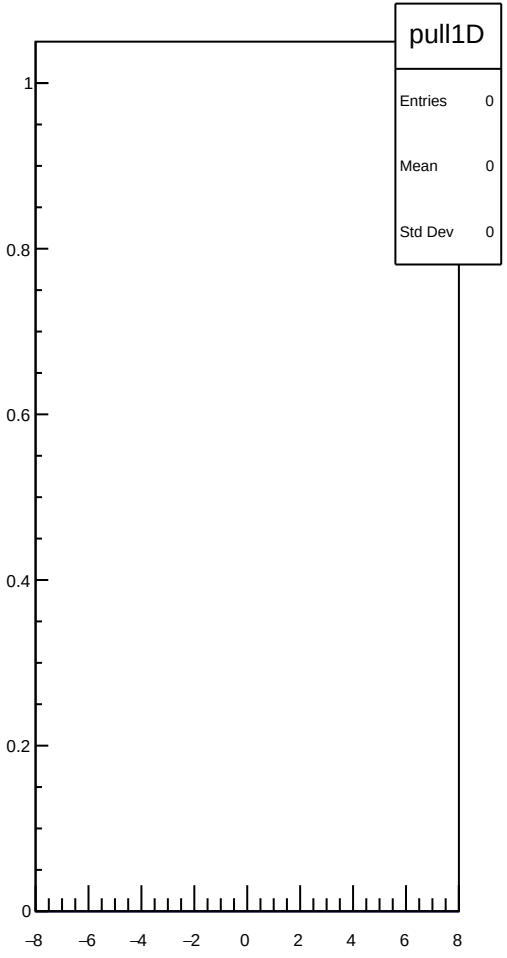
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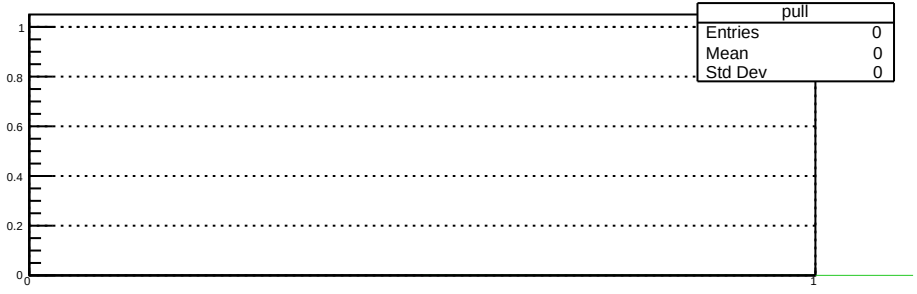
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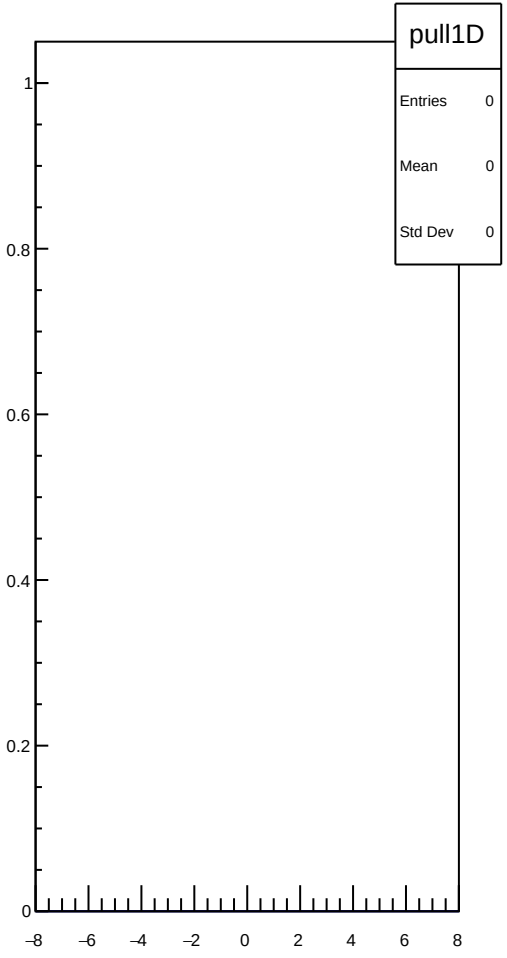
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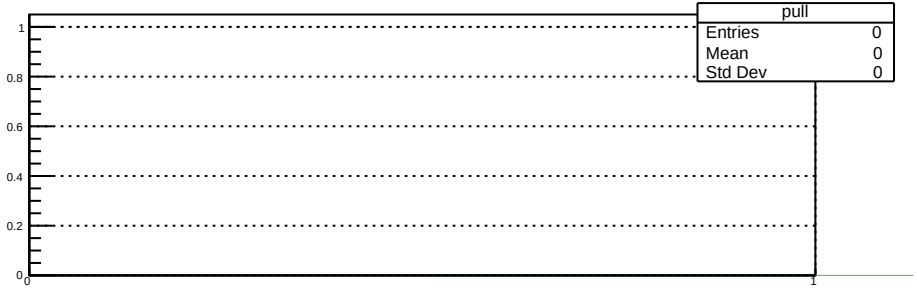
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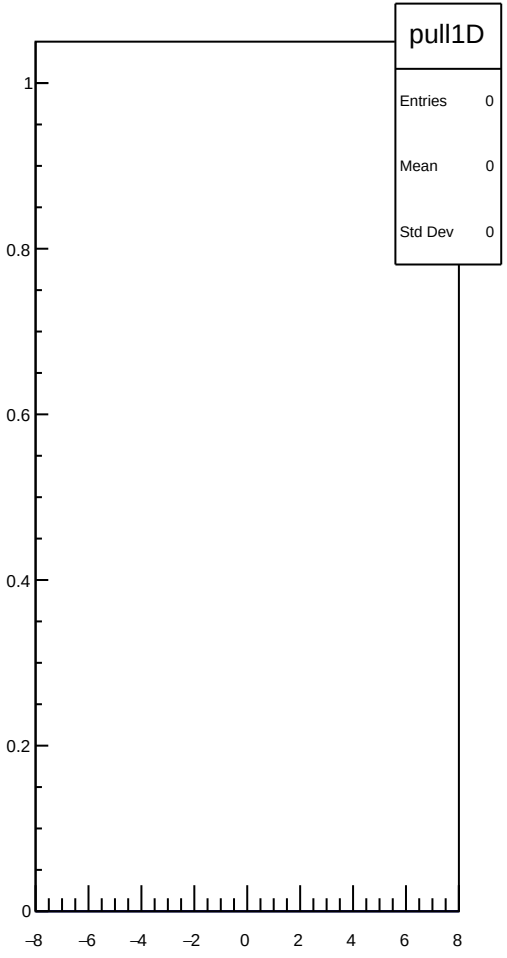
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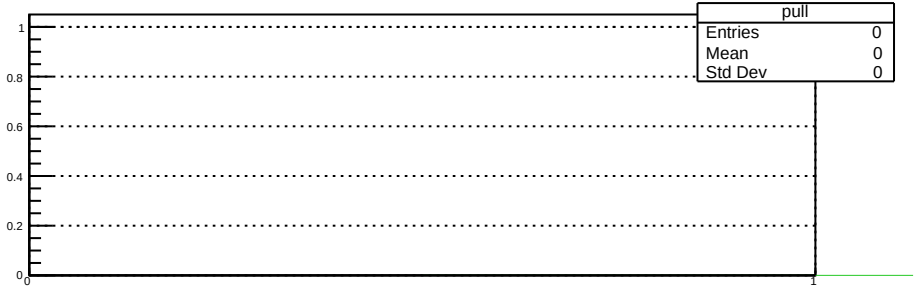
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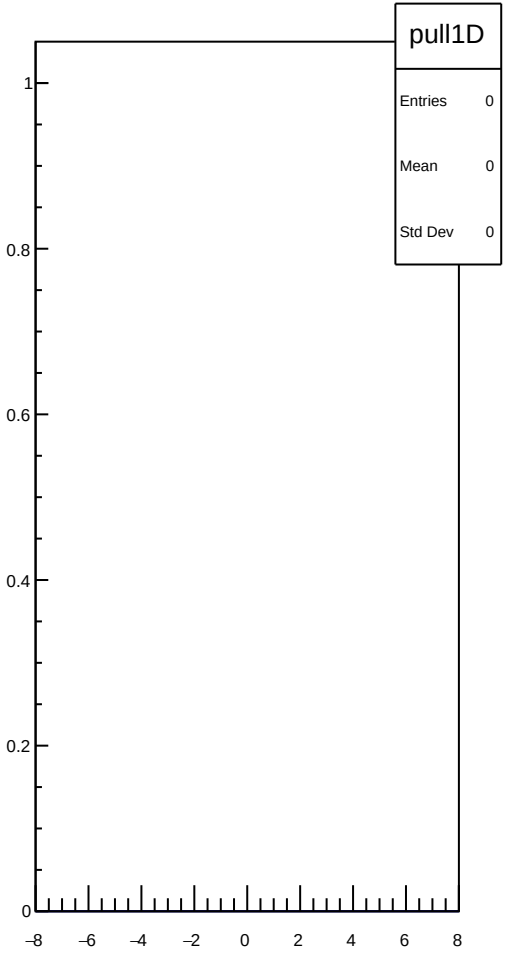
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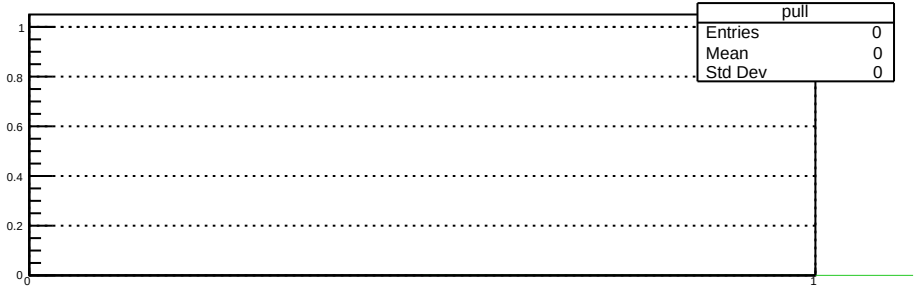
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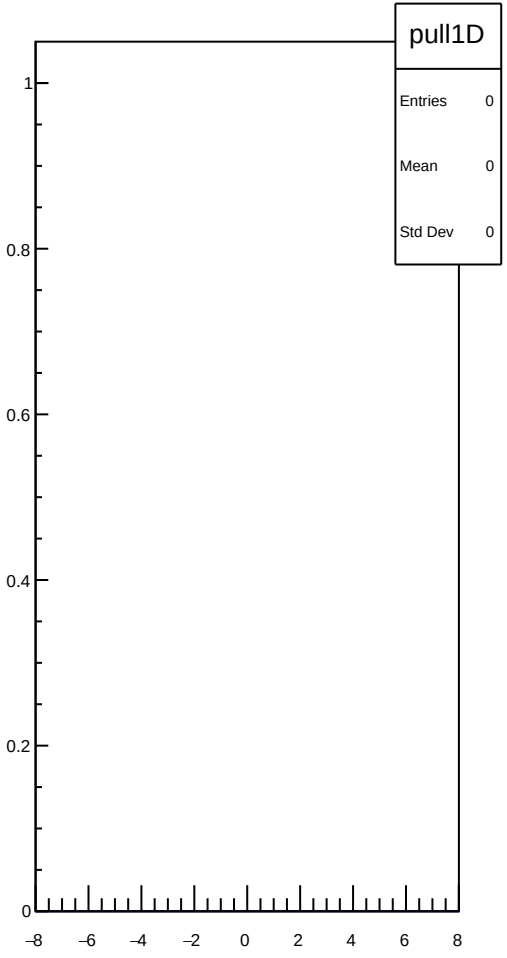
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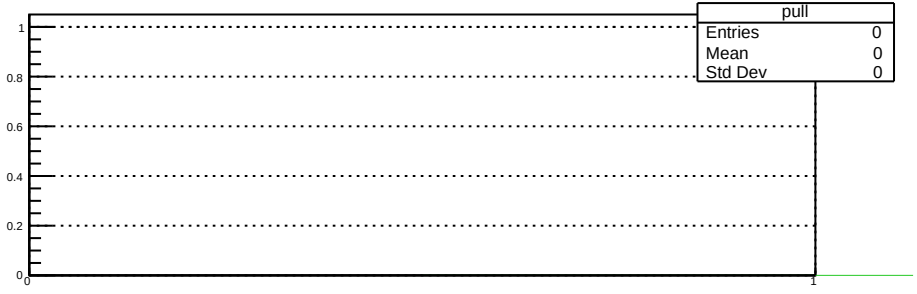
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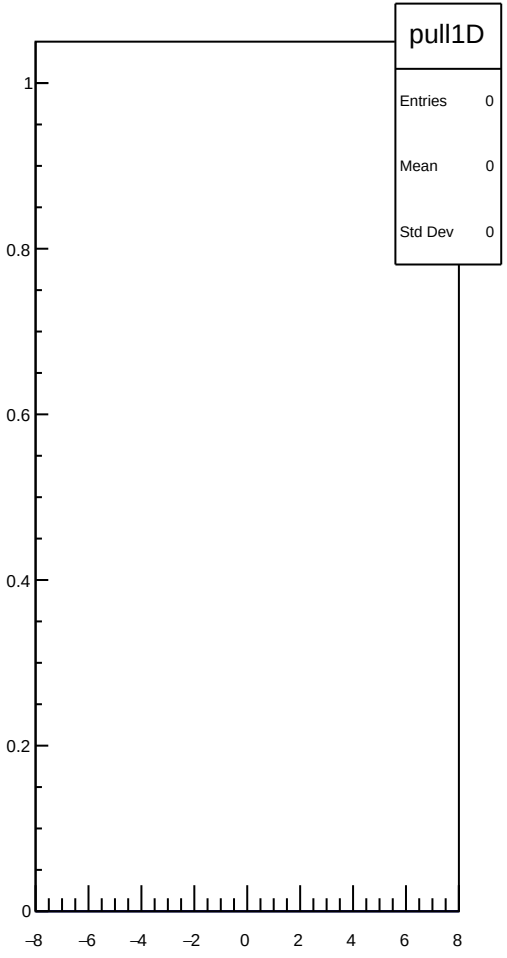
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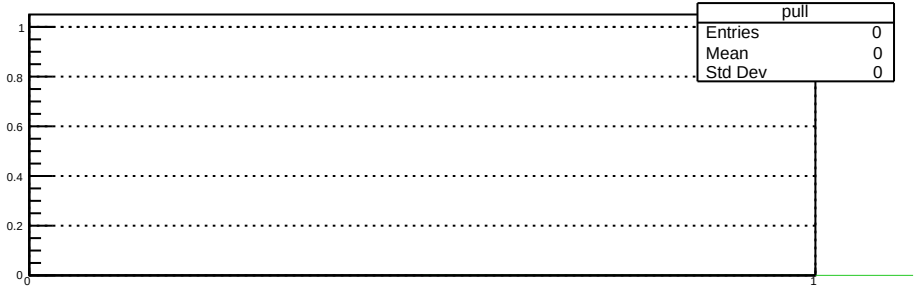
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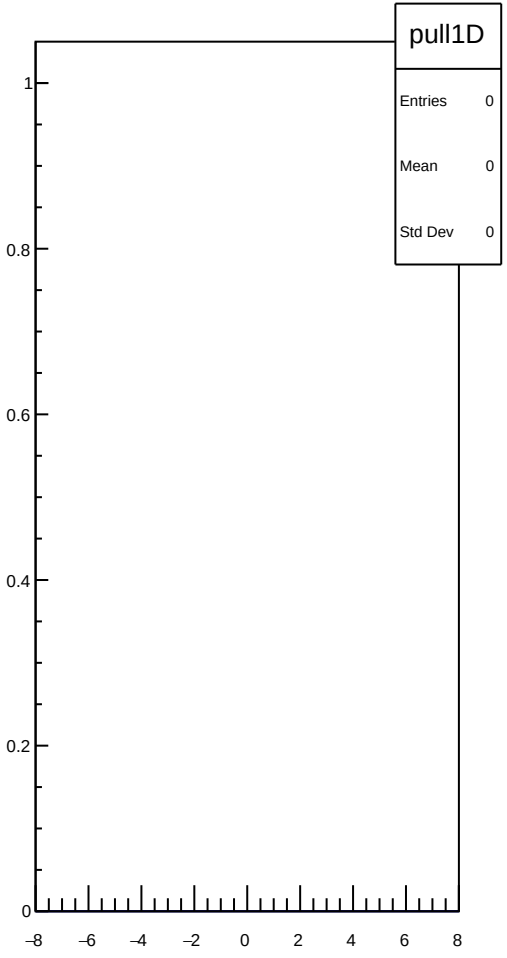
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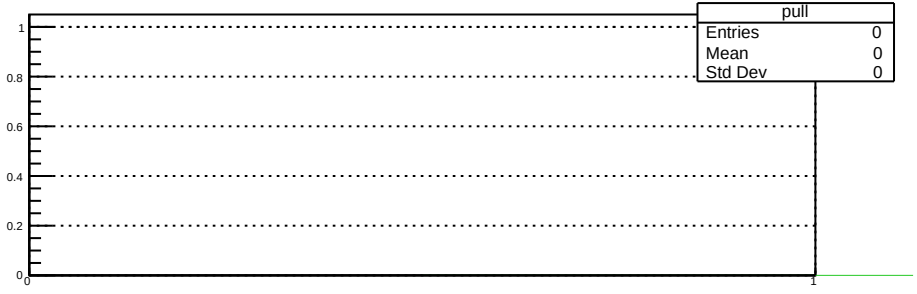
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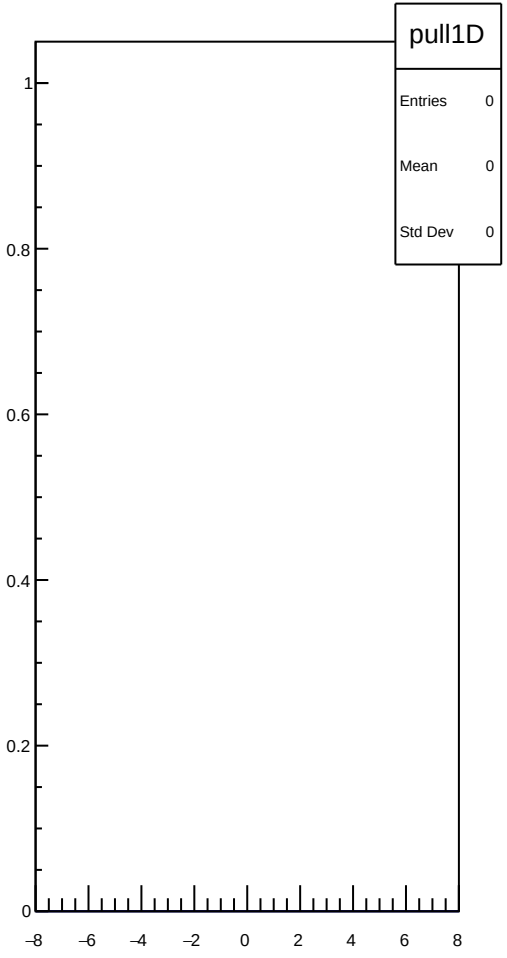
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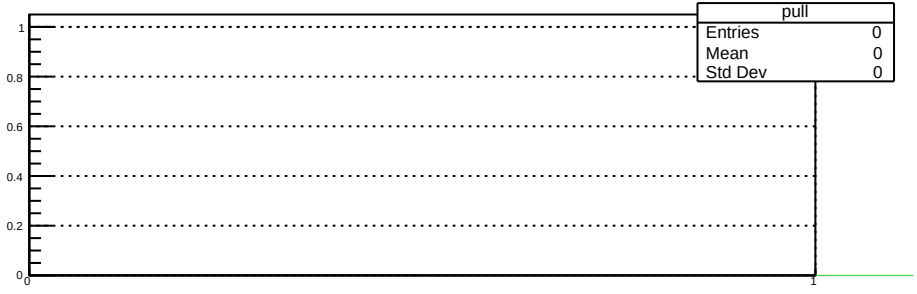
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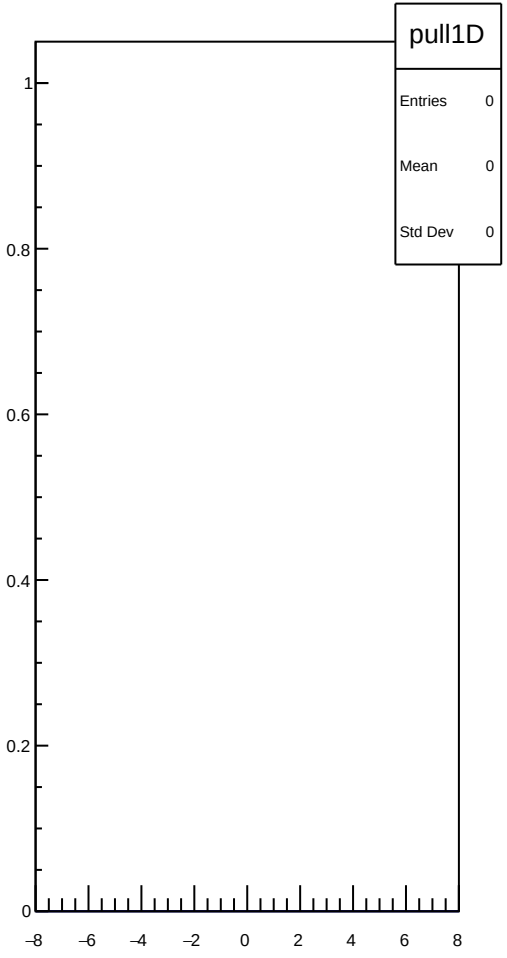
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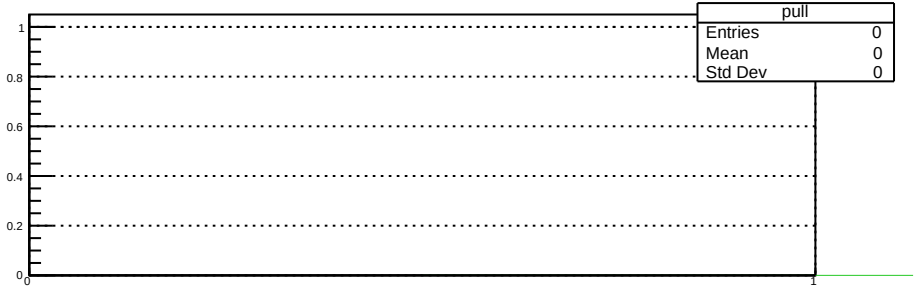
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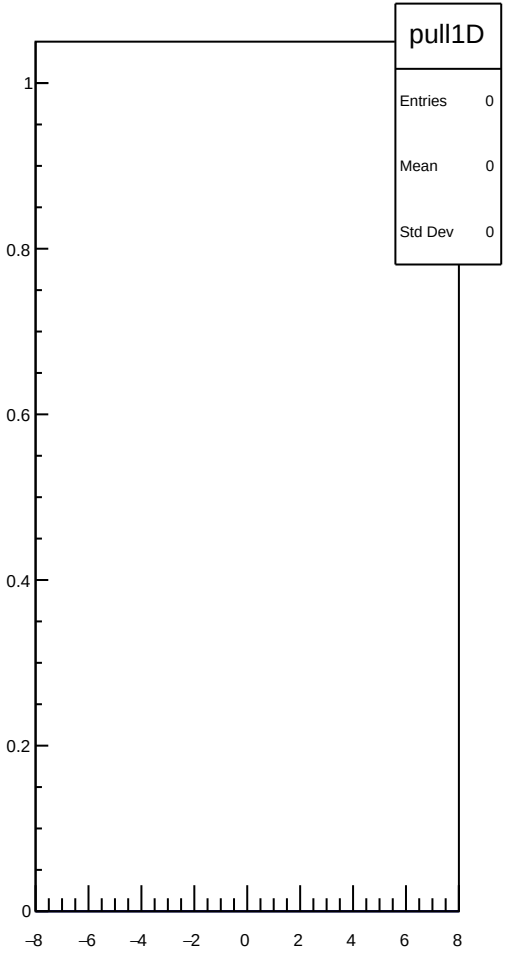
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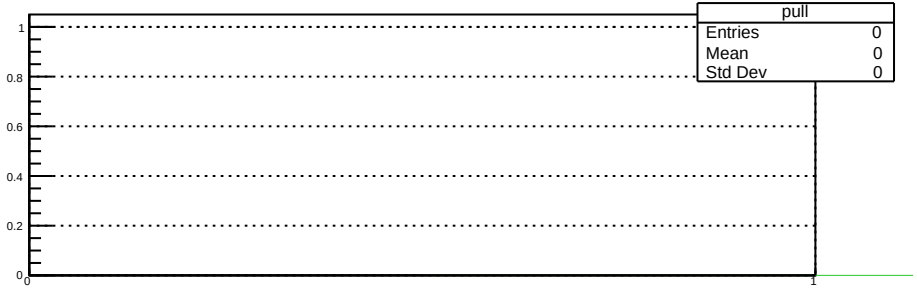
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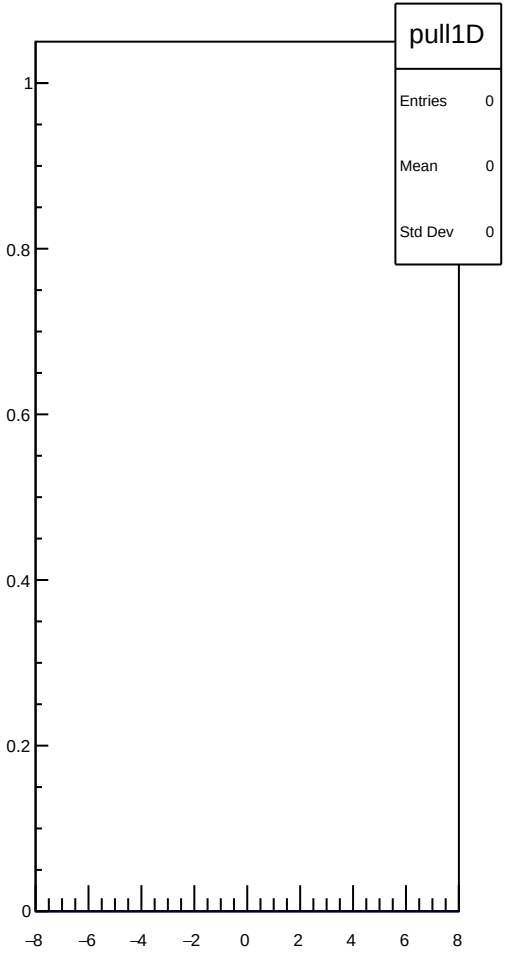
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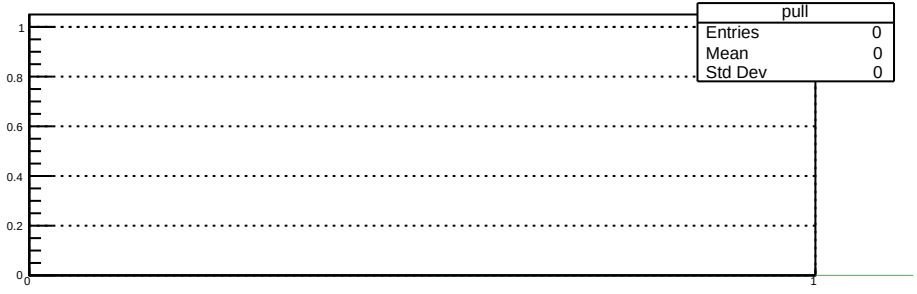
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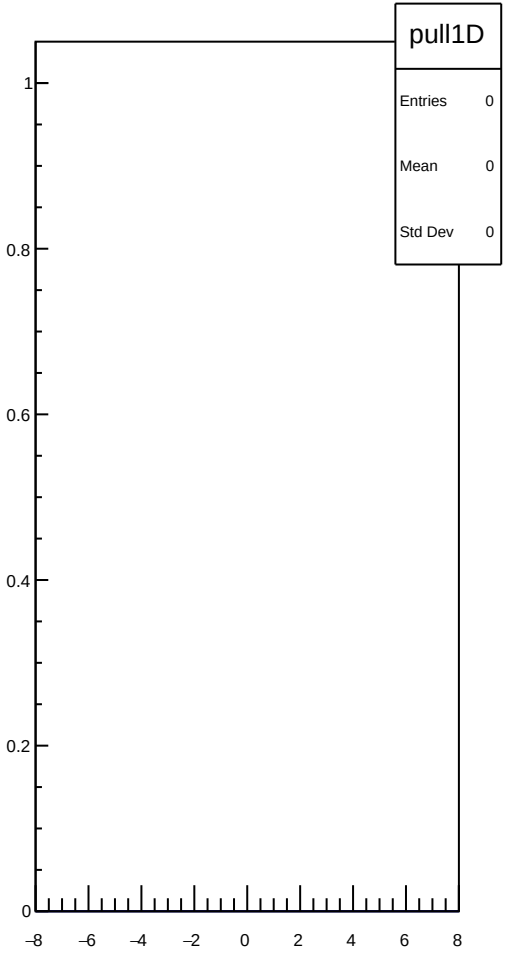
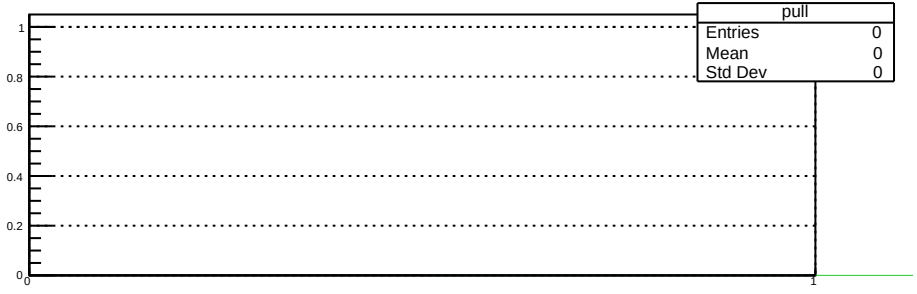
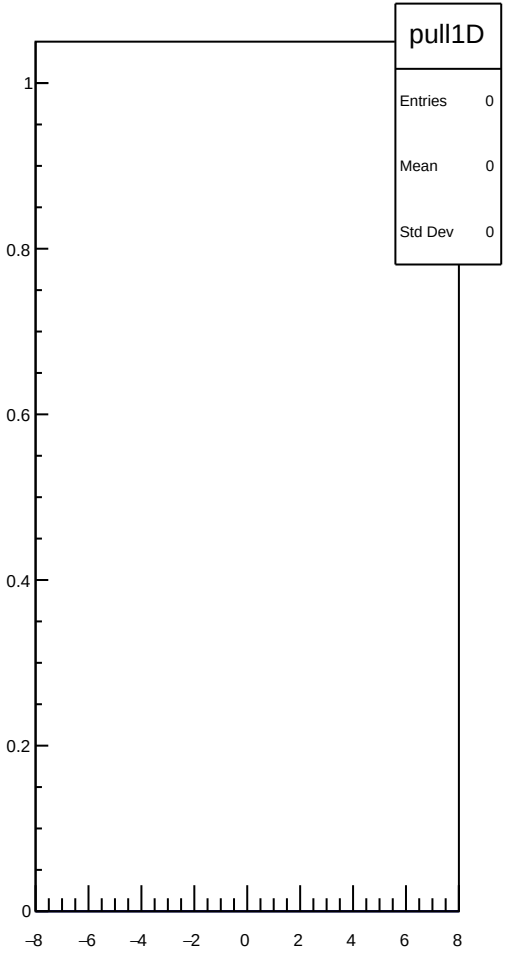
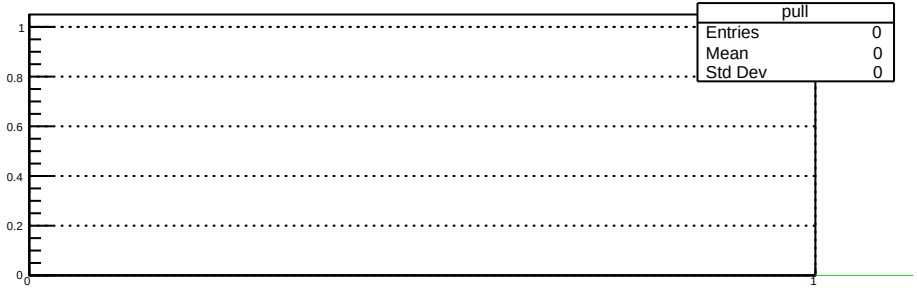
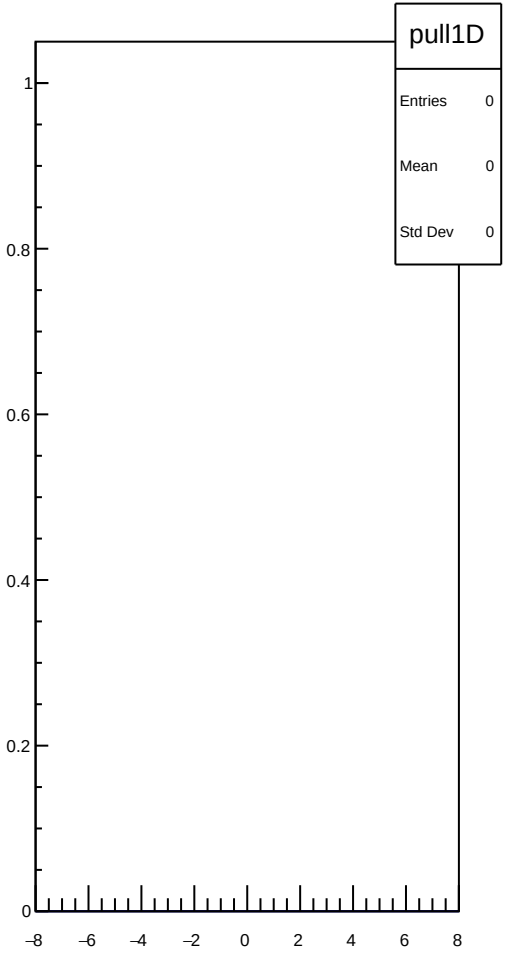
1

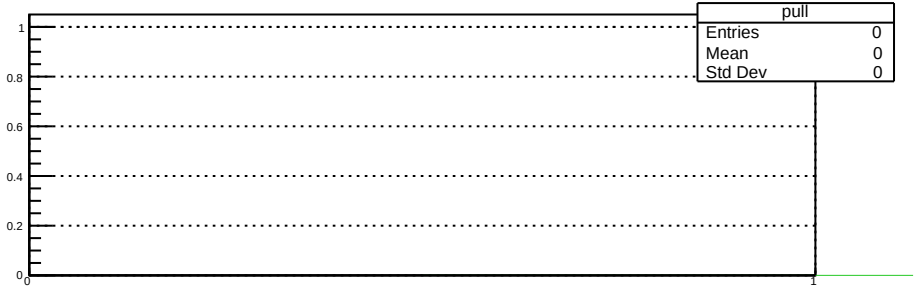

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

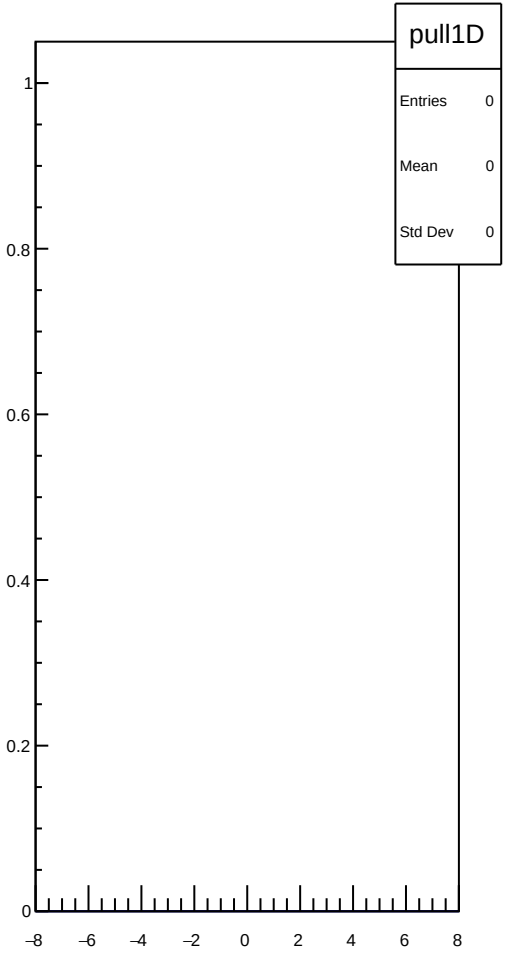

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

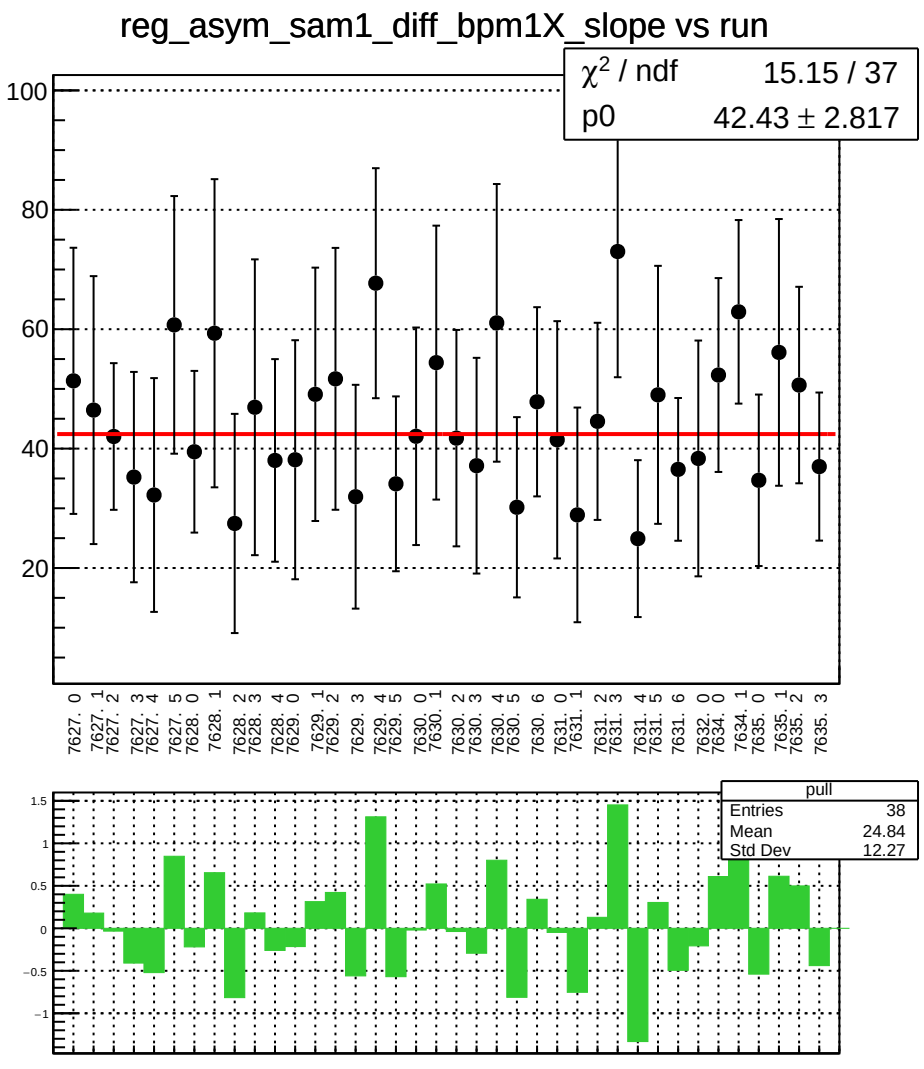

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

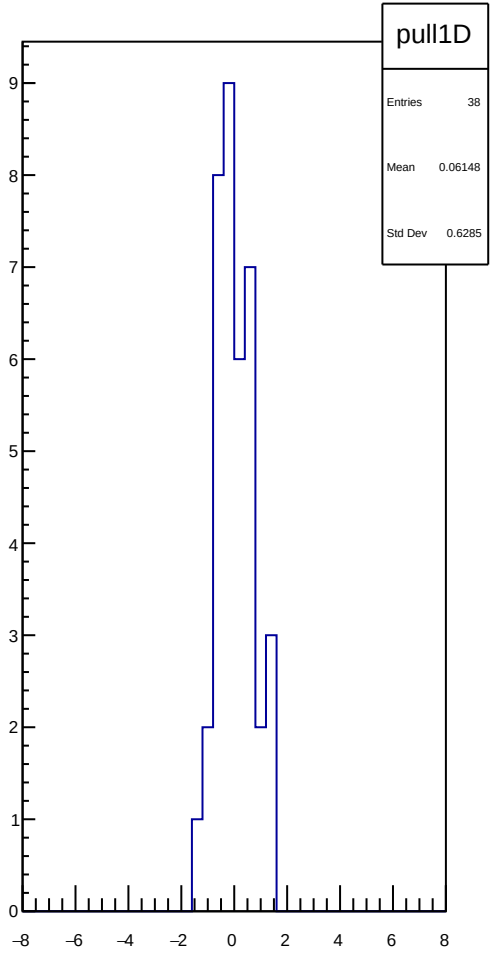

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

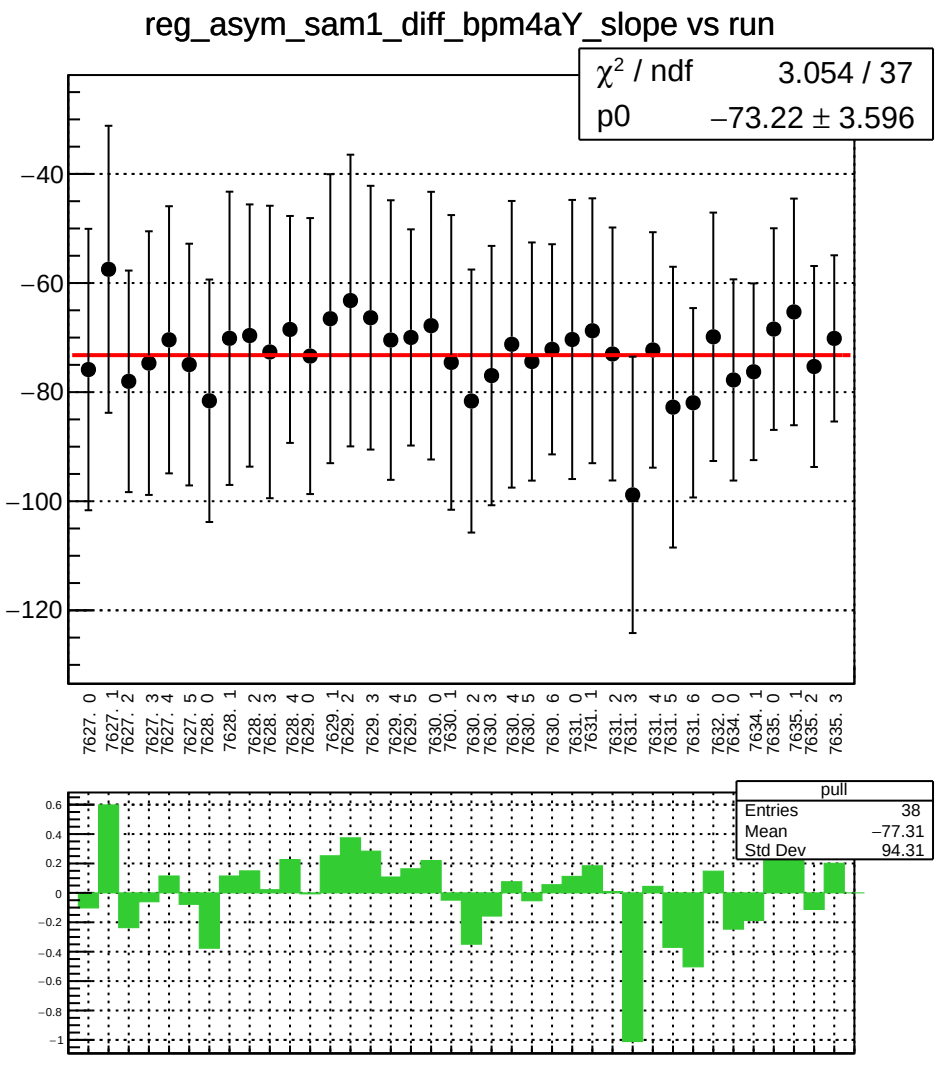

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

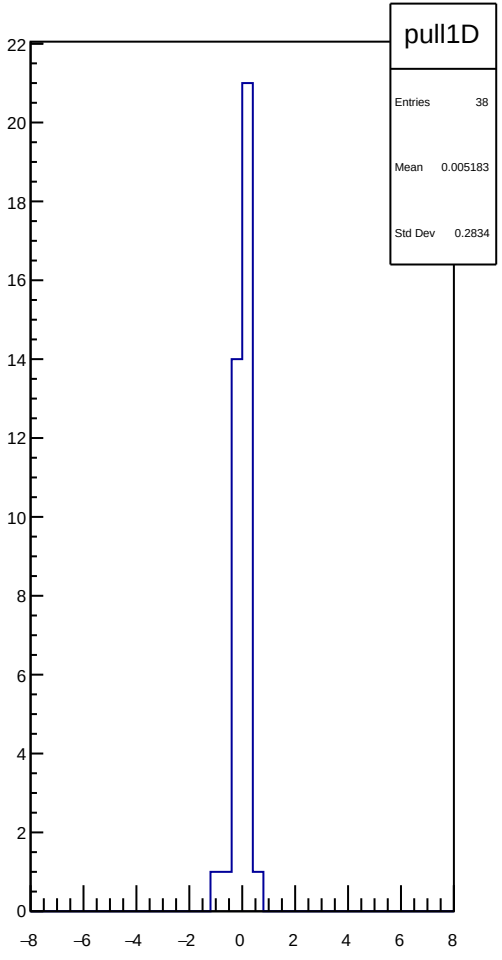

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

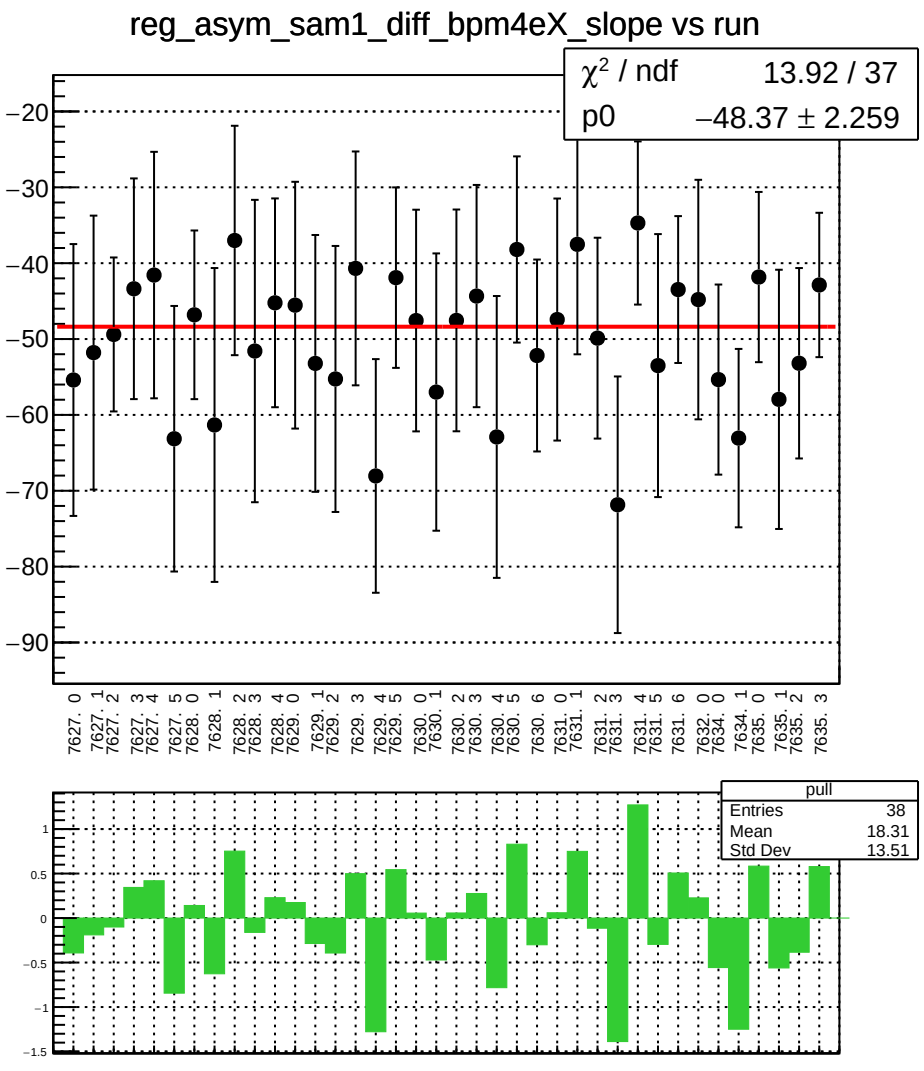

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

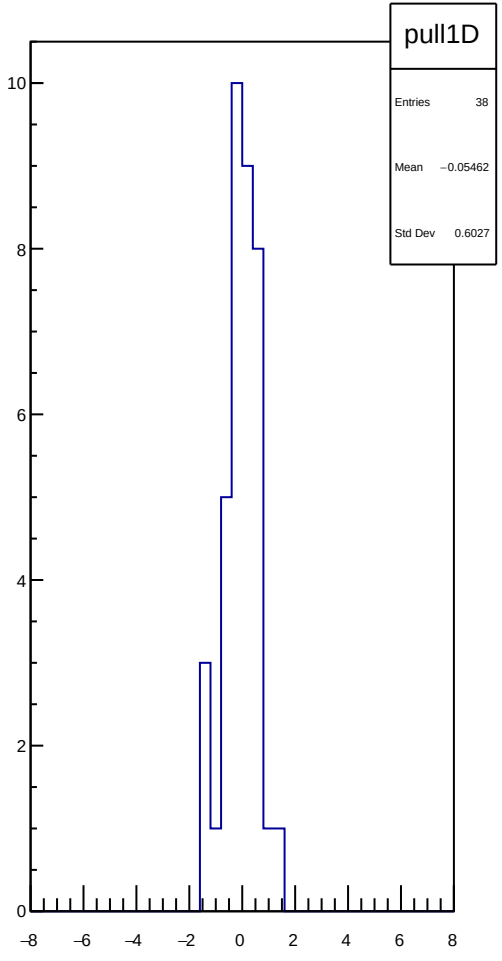

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 15.15 / 37
p0 42.43 ± 2.817
pull
Entries 38
Mean 24.84
Std Dev 12.27

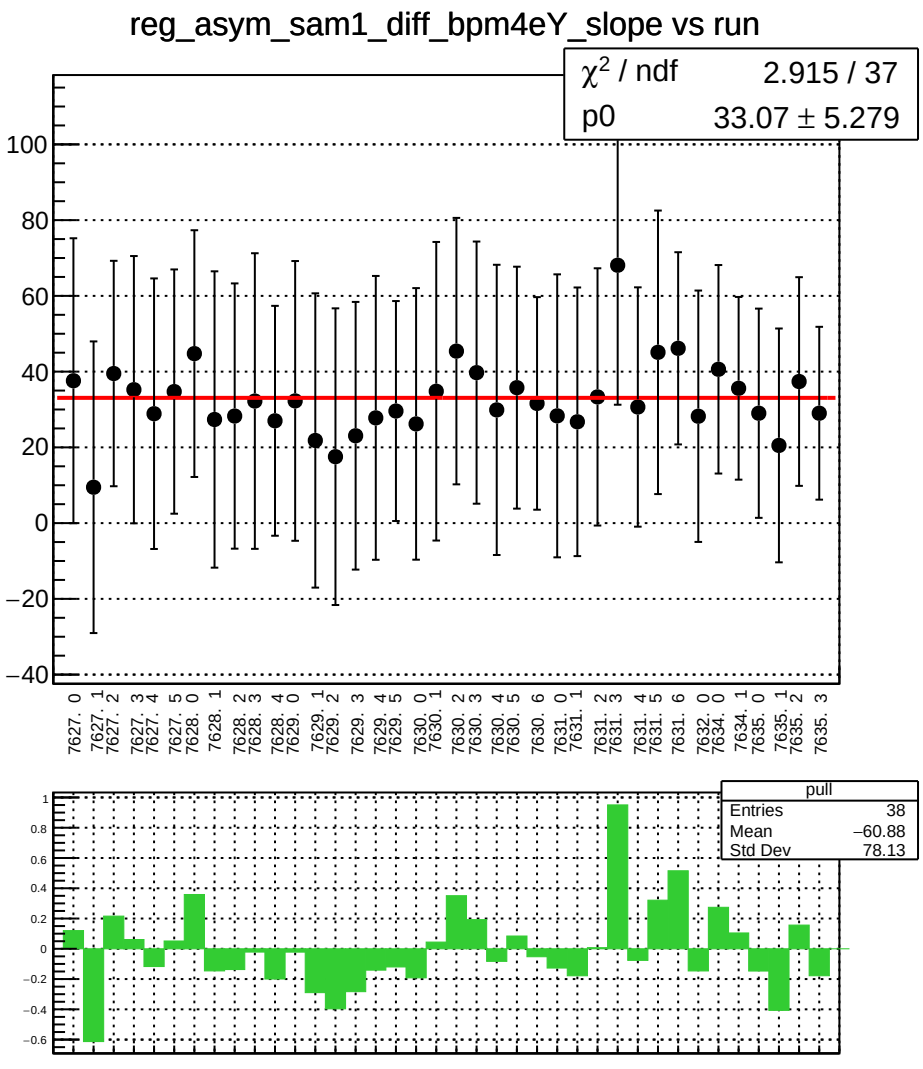

pull1D
Entries 38
Mean 0.06148
Std Dev 0.6285

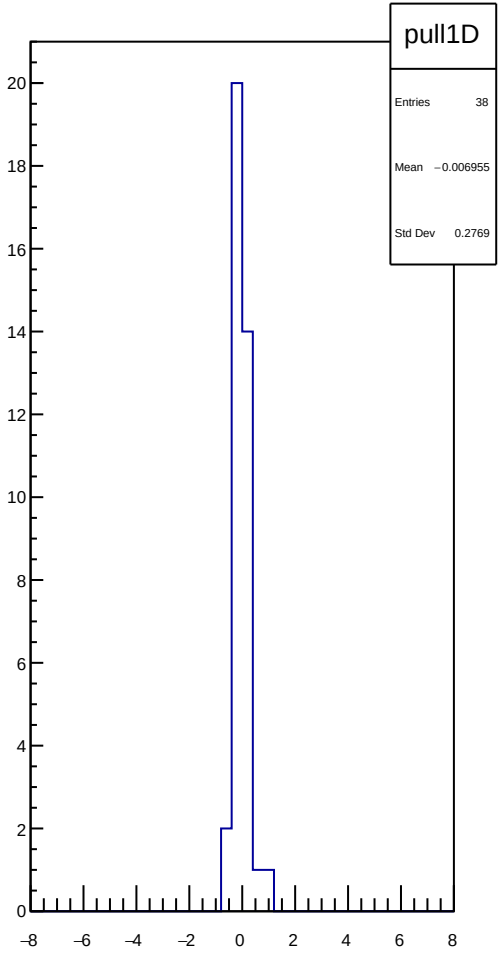

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 3.054 / 37
p0 −73.22 ± 3.596
−40
−60
−80
−100
−120
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −77.31
Std Dev 94.31
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

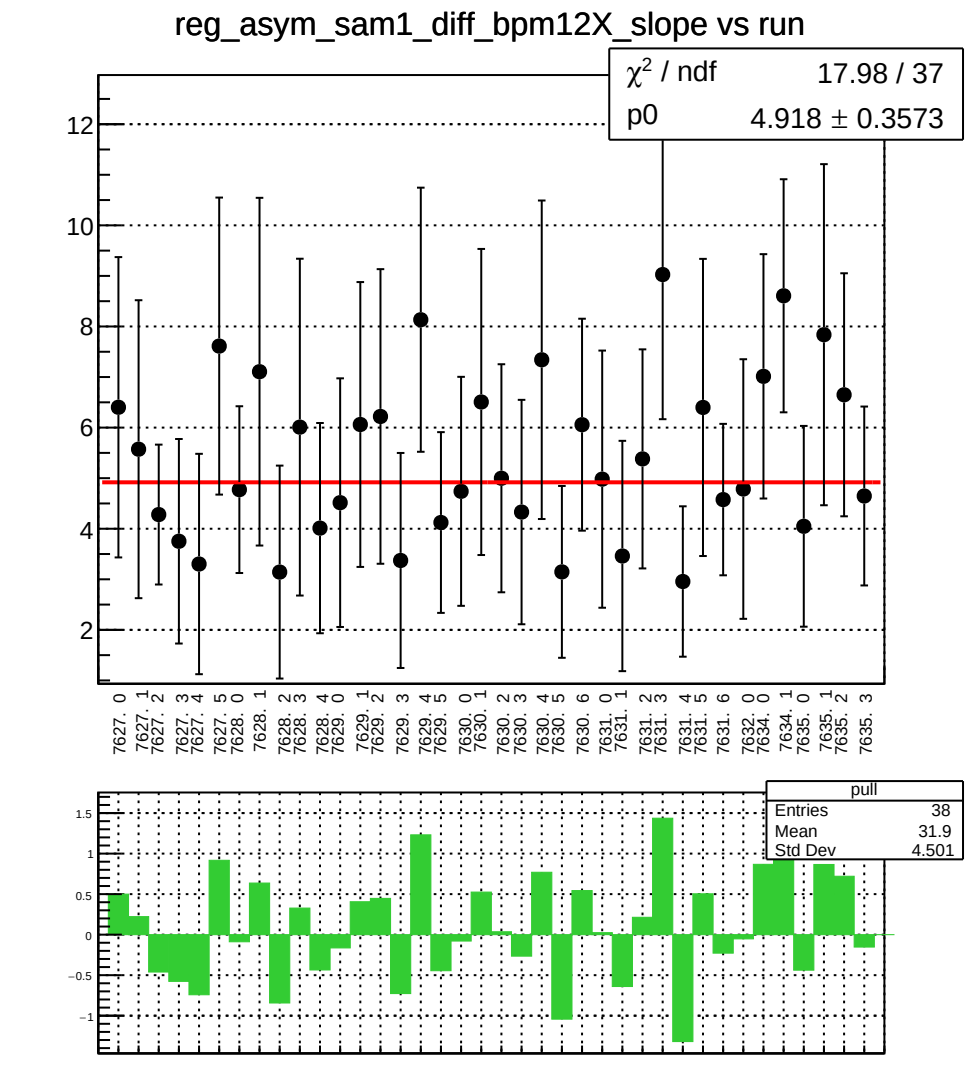

pull1D
Entries 38
Mean 0.005183
Std Dev 0.2834
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

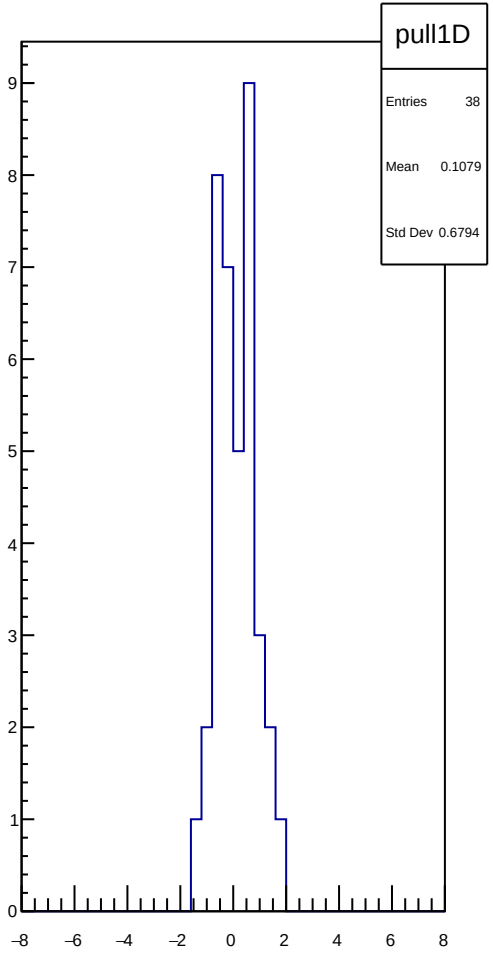

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 13.92 / 37
p0 −48.37 ± 2.259
pull
Entries 38
Mean 18.31
Std Dev 13.51

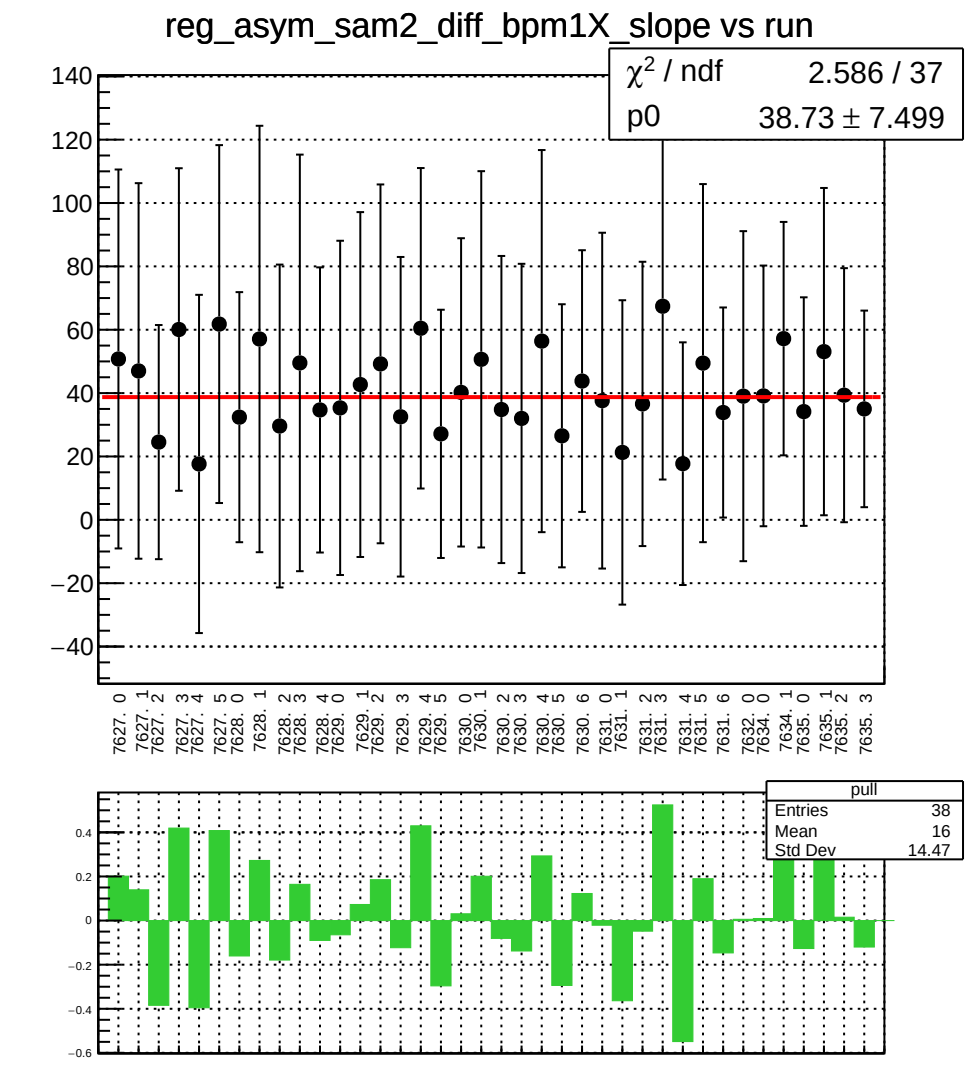

pull1D
Entries 38
Mean −0.05462
Std Dev 0.6027

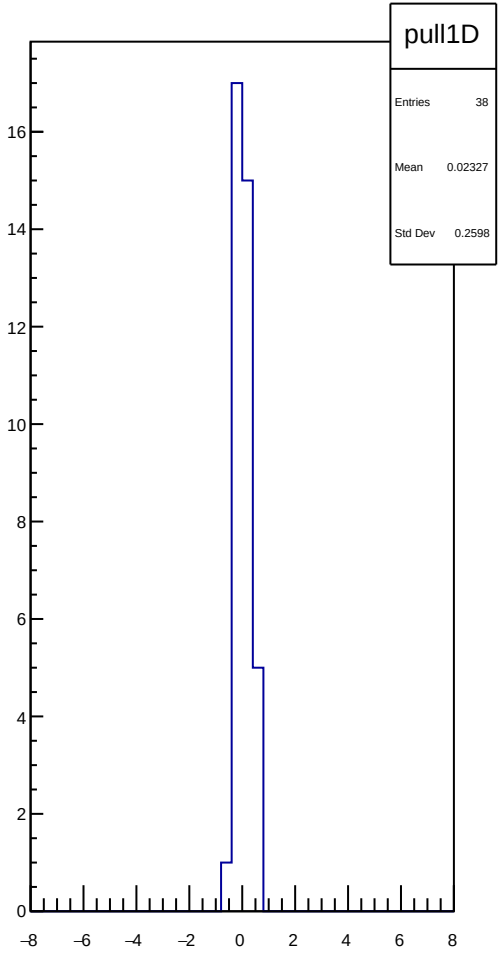

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 2.915 / 37
p0 33.07 ± 5.279
pull
Entries 38
Mean −60.88
Std Dev 78.13

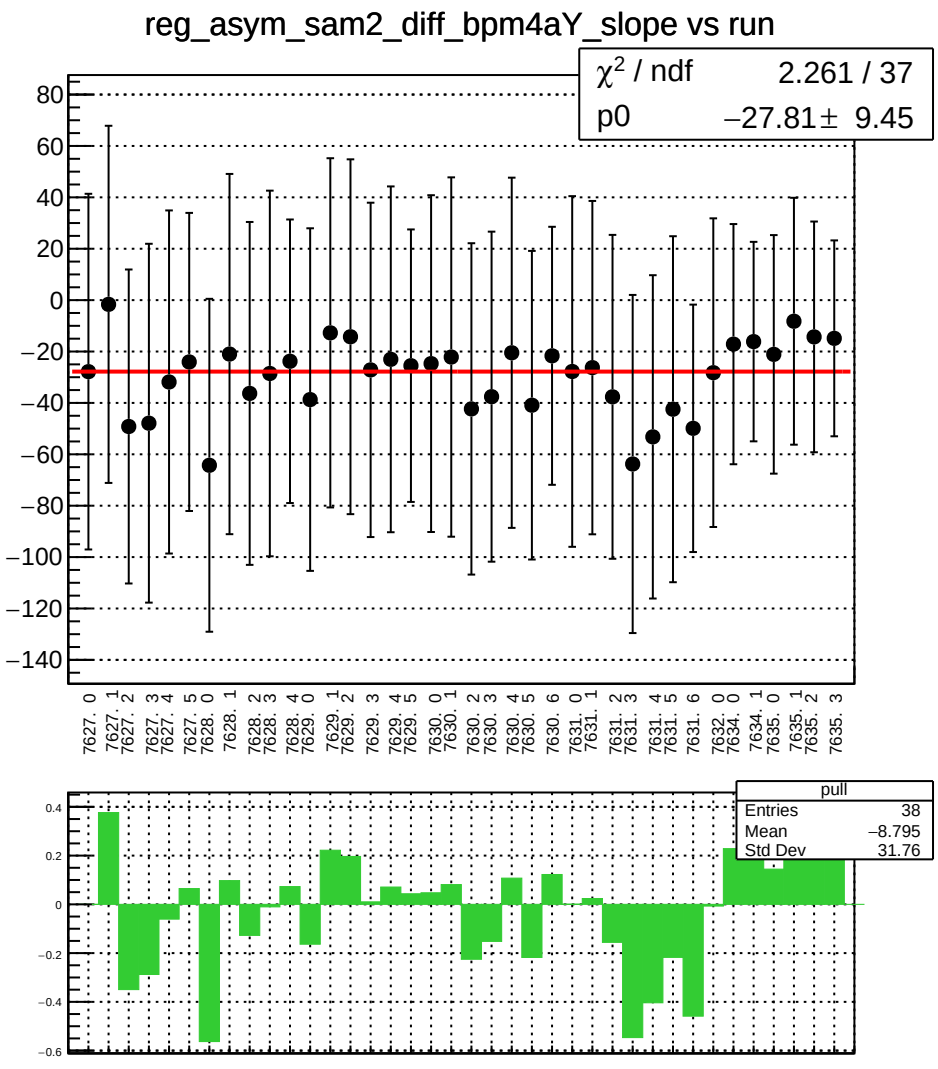

pull1D
Entries 38
Mean −0.006955
Std Dev 0.2769

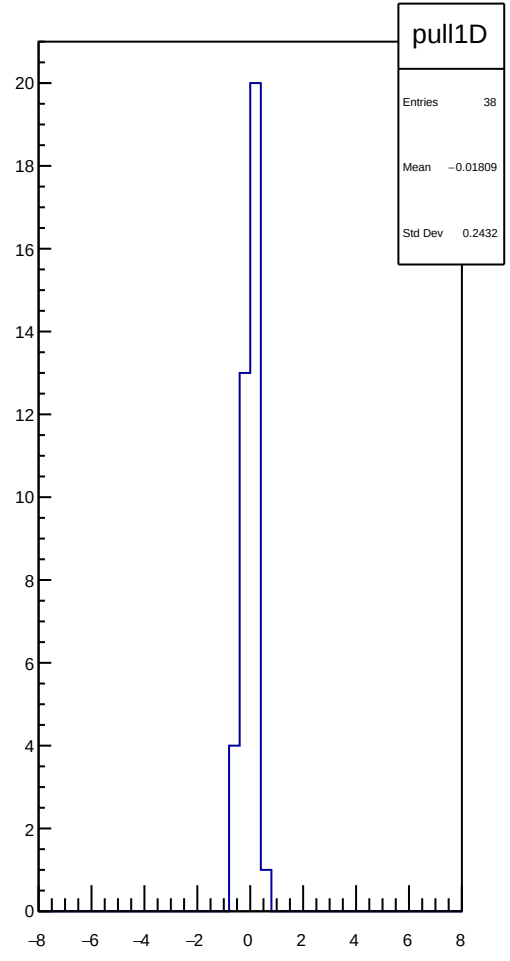

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 17.98 / 37
p0 4.918 ± 0.3573
pull
Entries 38
Mean 31.9
Std Dev 4.501

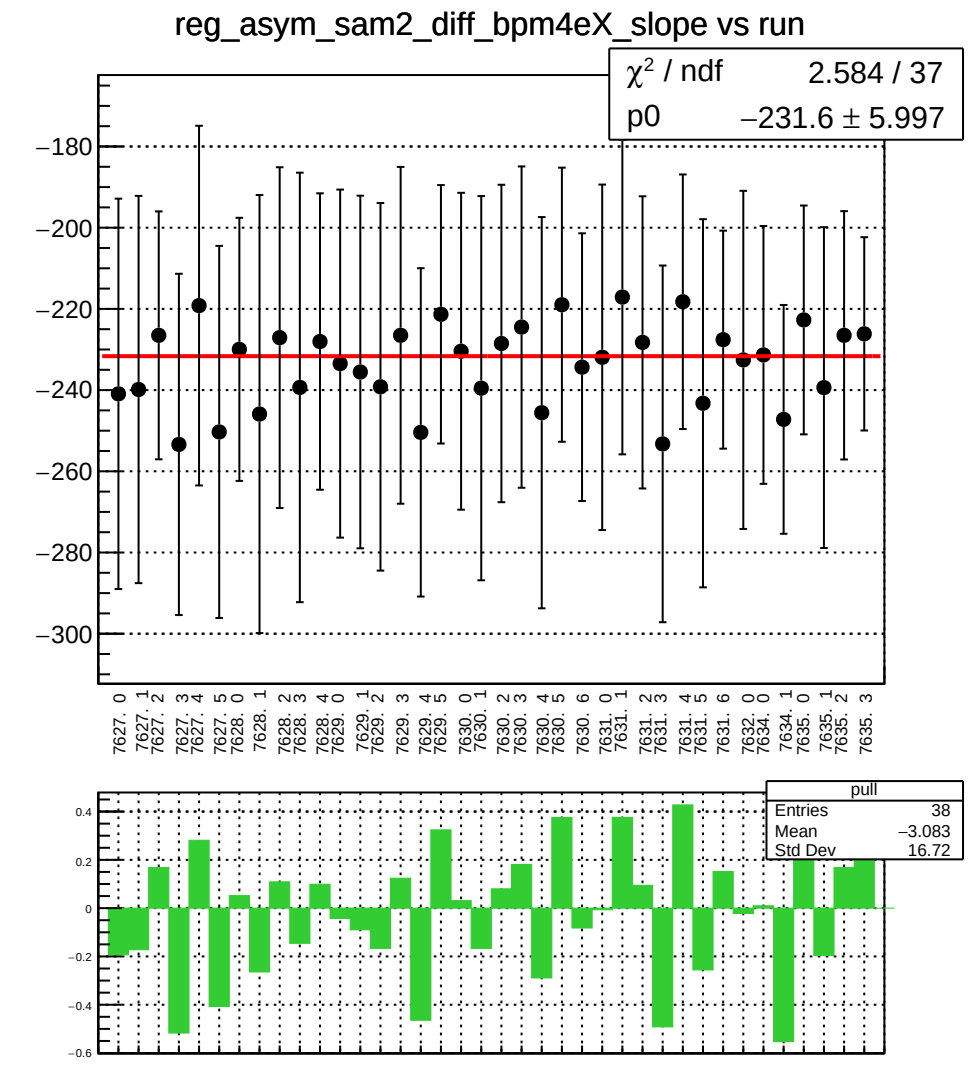

pull1D
Entries 38
Mean 0.1079
Std Dev 0.6794

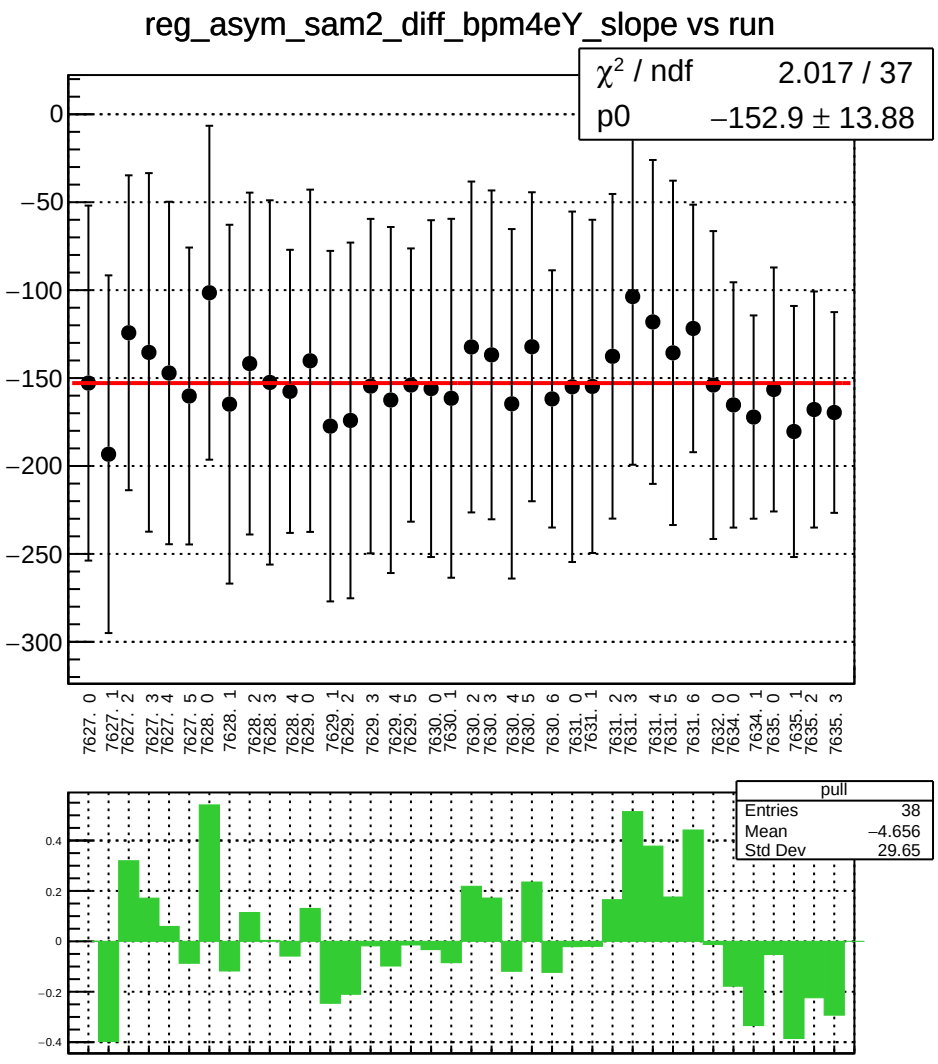

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 2.586 / 37
p0 38.73 ± 7.499
pull
Entries 38
Mean 16
Std Dev 14.47

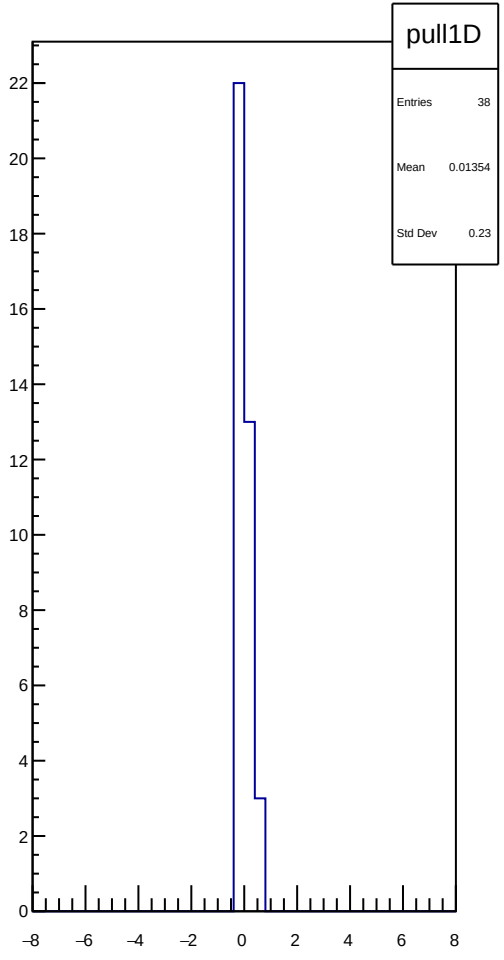

pull1D
Entries 38
Mean 0.02327
Std Dev 0.2598

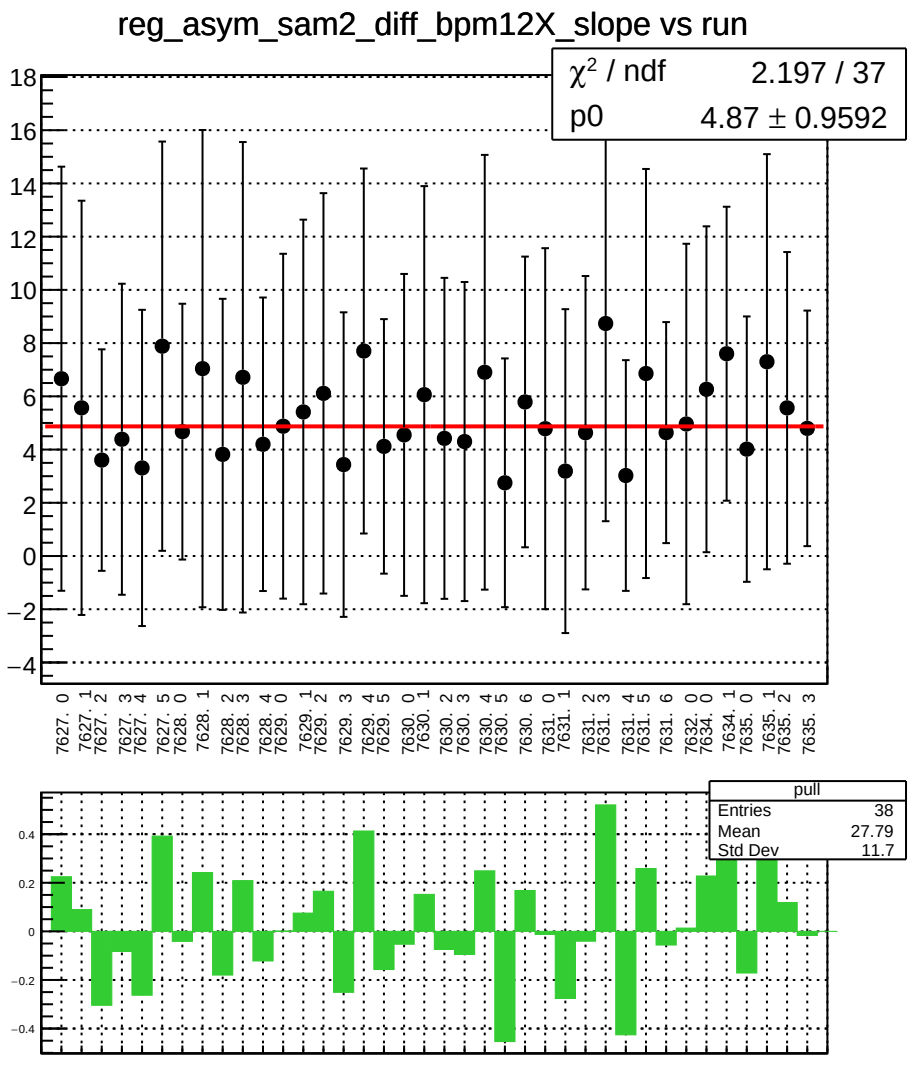

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 2.261 / 37
p0 −27.81 ± 9.45
pull
Entries 38
Mean −8.795
Std Dev 31.76

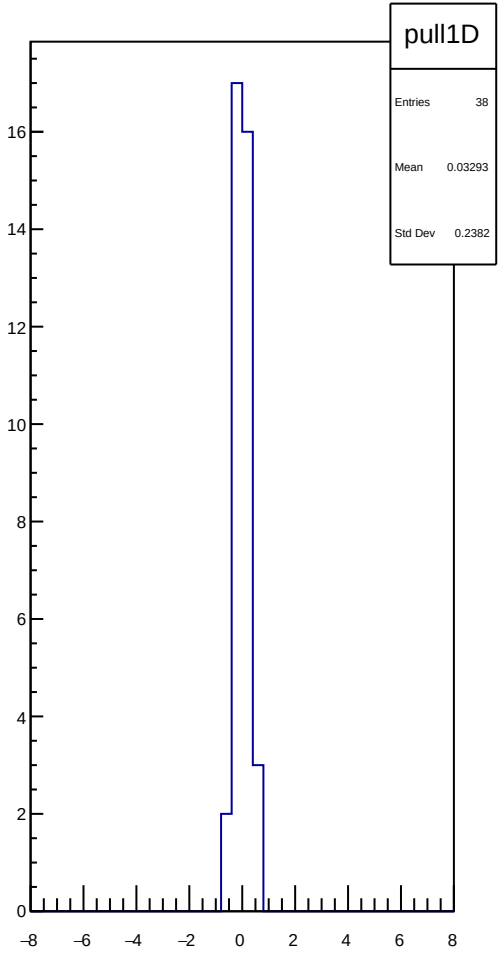

pull1D
Entries 38
Mean −0.01809
Std Dev 0.2432

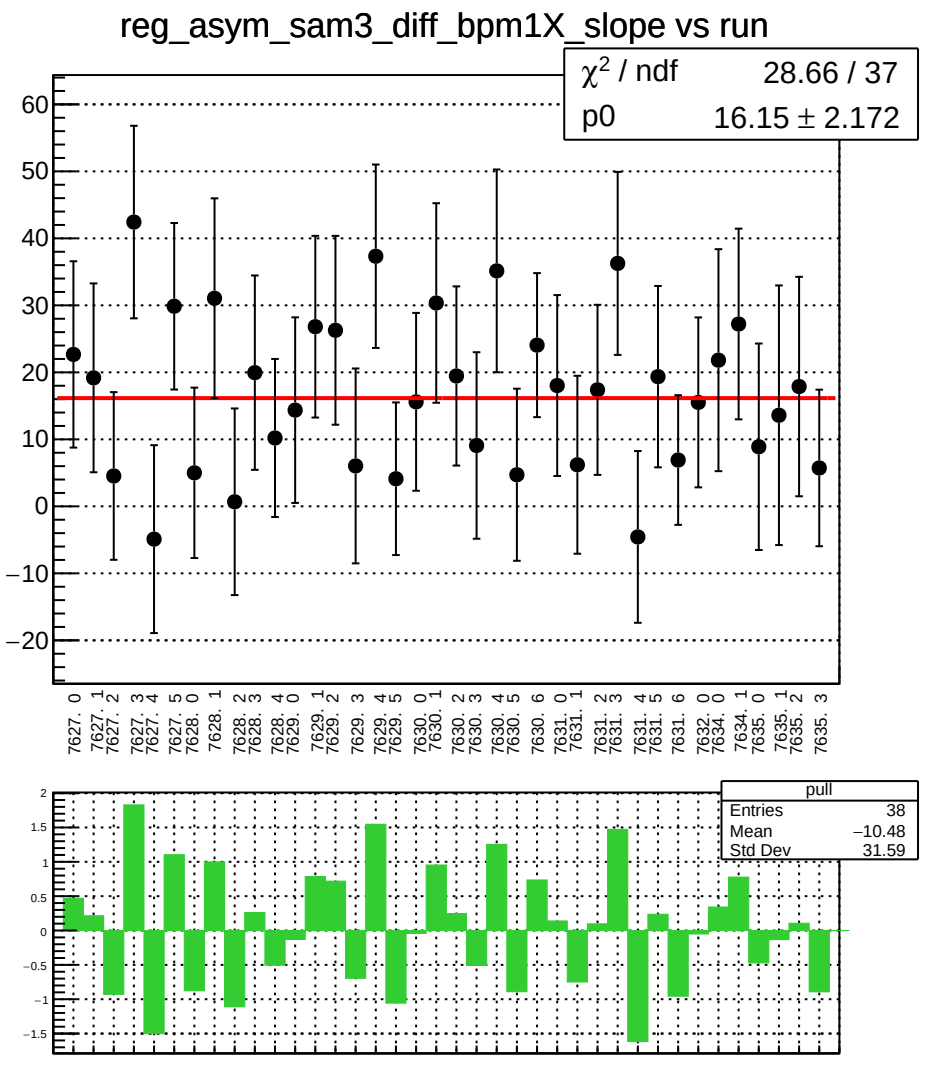

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 2.584 / 37
p0 −231.6 ± 5.997
−180
−200
−220
−240
−260
−280
−300
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −3.083
Std Dev 16.72
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 38
Mean −0.02439
Std Dev 0.2596
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

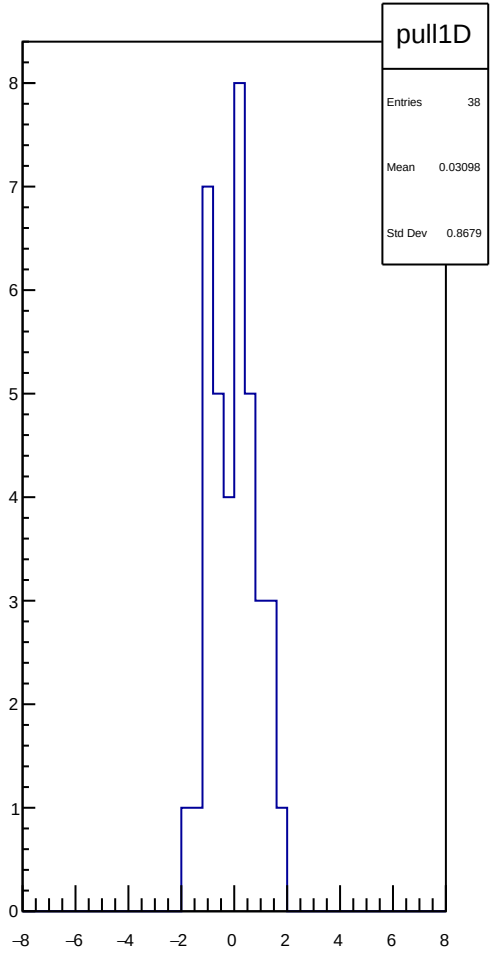

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 2.017 / 37
p0 −152.9 ± 13.88
pull
Entries 38
Mean −4.656
Std Dev 29.65

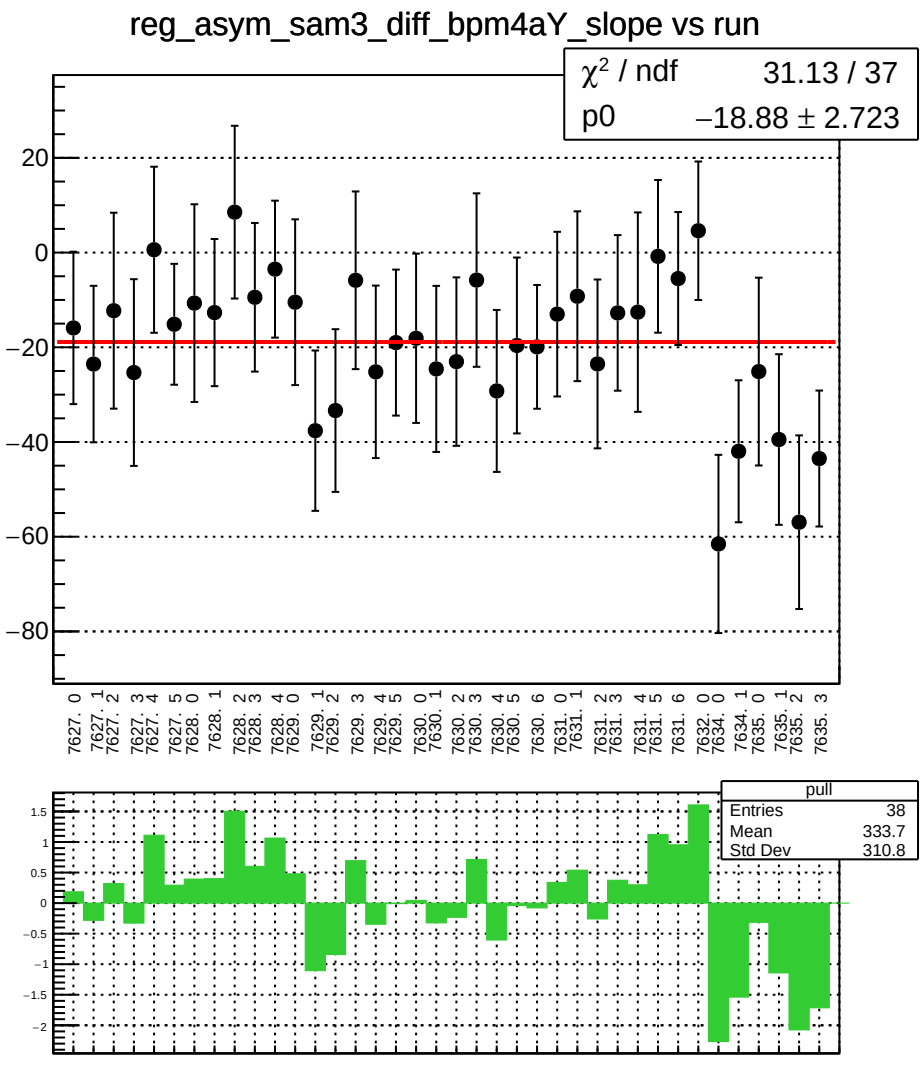

pull1D
Entries 38
Mean 0.01354
Std Dev 0.23

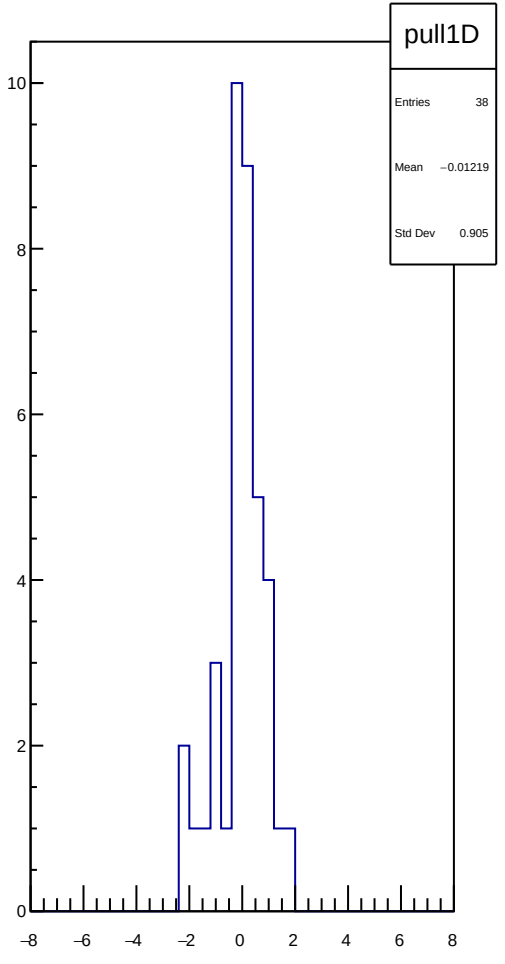

reg_asym_sam2_diff_bpm12X_slope vs run
χ^2 / ndf 2.197 / 37
p0 4.87 ± 0.9592
pull
Entries 38
Mean 27.79
Std Dev 11.7

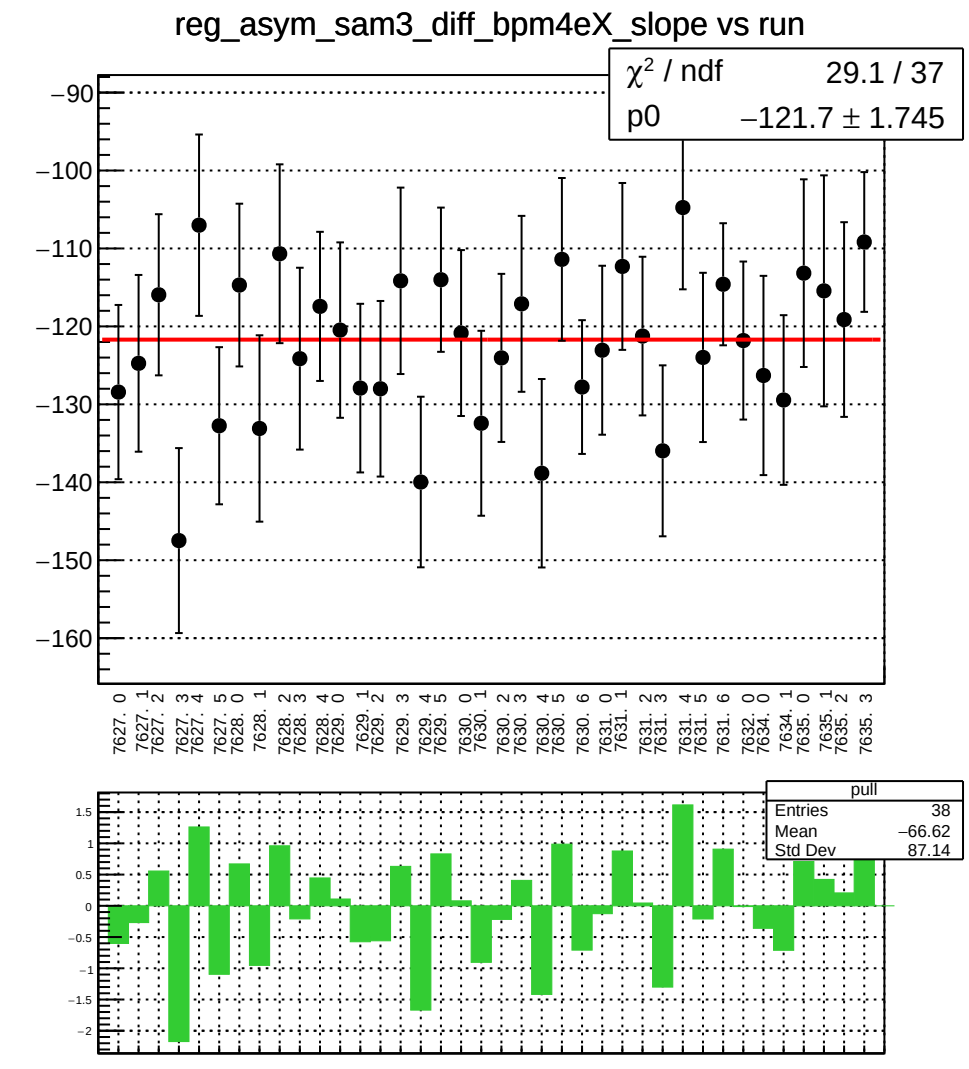

pull1D
Entries 38
Mean 0.03293
Std Dev 0.2382

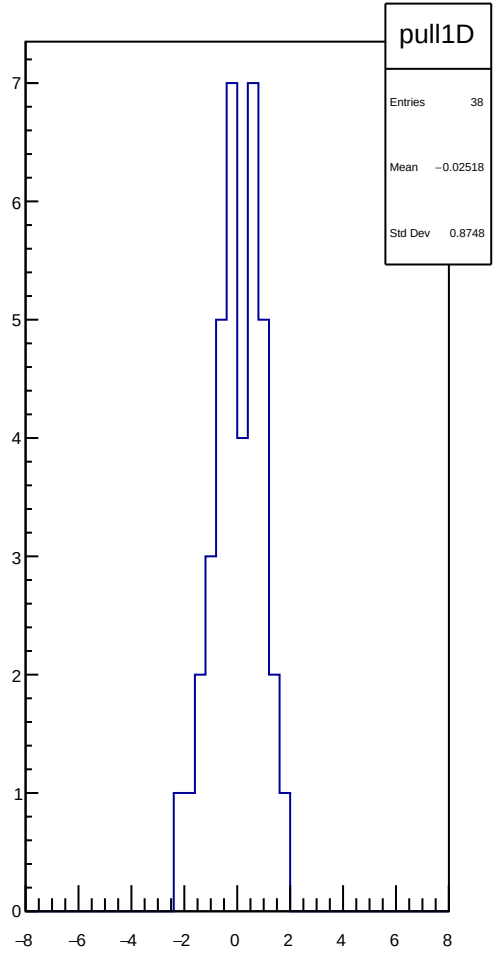

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 28.66 / 37
p0 16.15 ± 2.172
pull
Entries 38
Mean −10.48
Std Dev 31.59

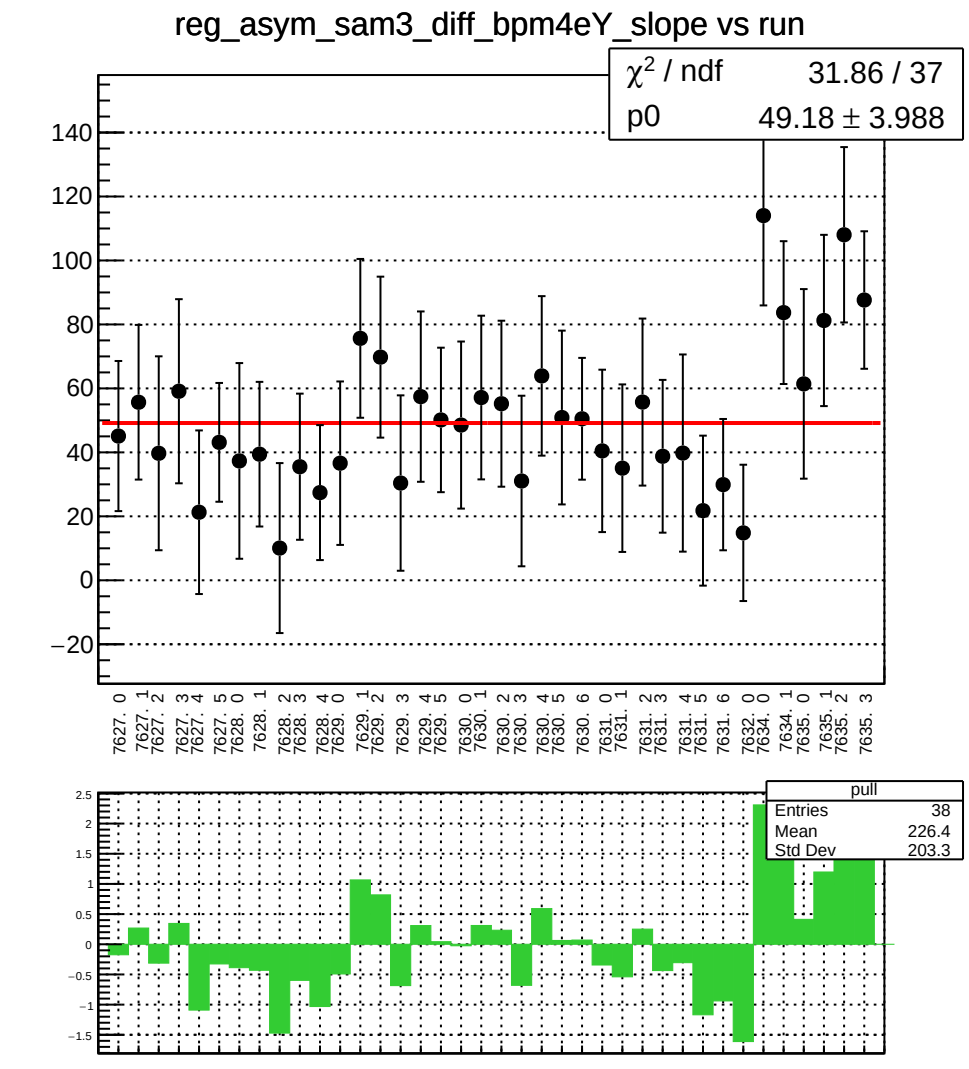

pull1D
Entries 38
Mean 0.03098
Std Dev 0.8679

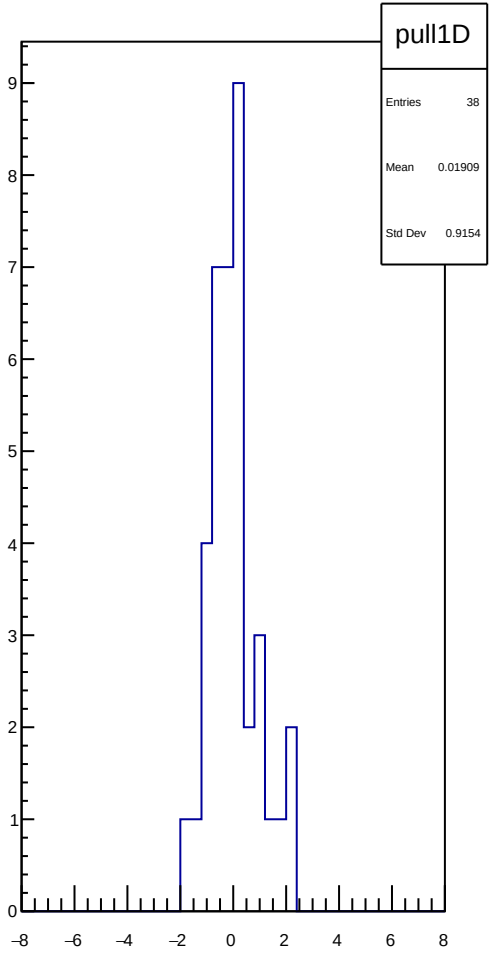

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 31.13 / 37
p0 −18.88 ± 2.723
20
0
−20
−40
−60
−80
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 333.7
Std Dev 310.8
1.5
1
0.5
0
−0.5
−1
−1.5
−2

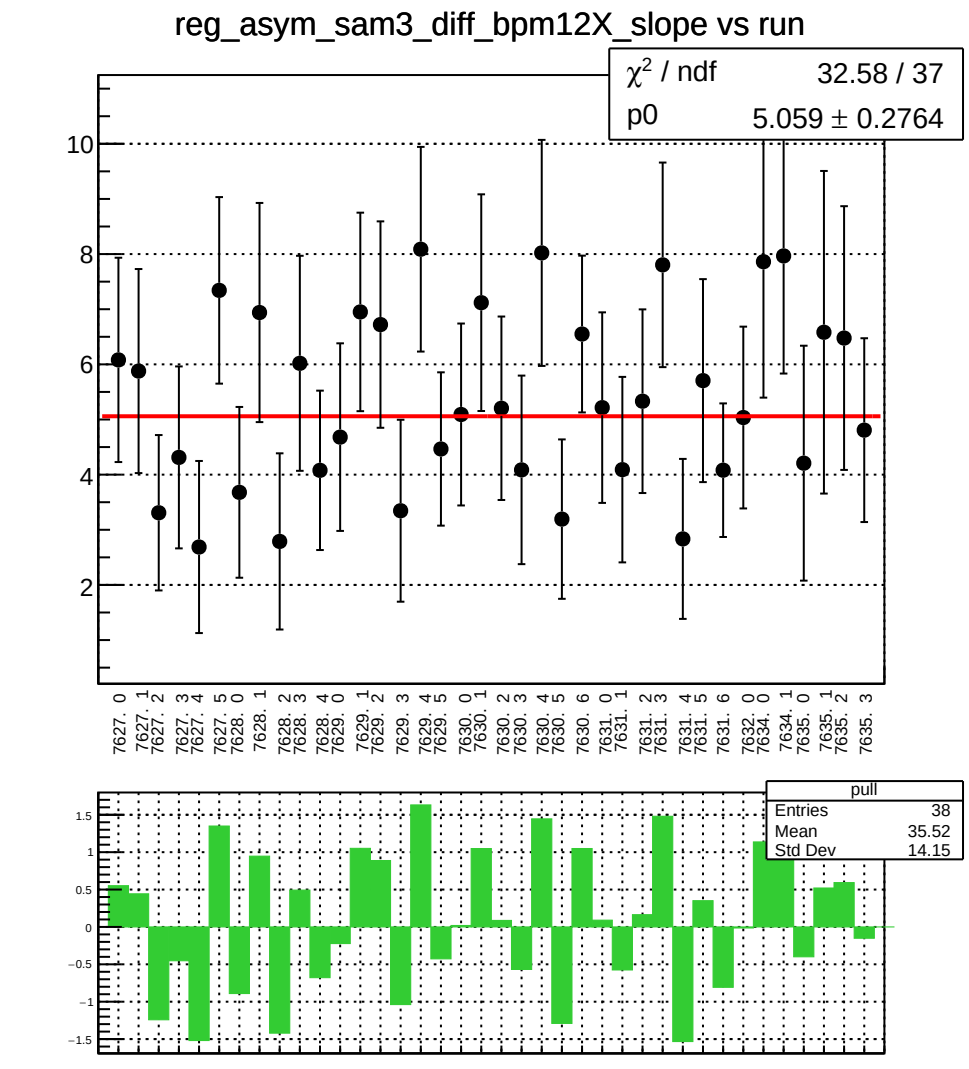

pull1D
Entries 38
Mean −0.01219
Std Dev 0.905
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

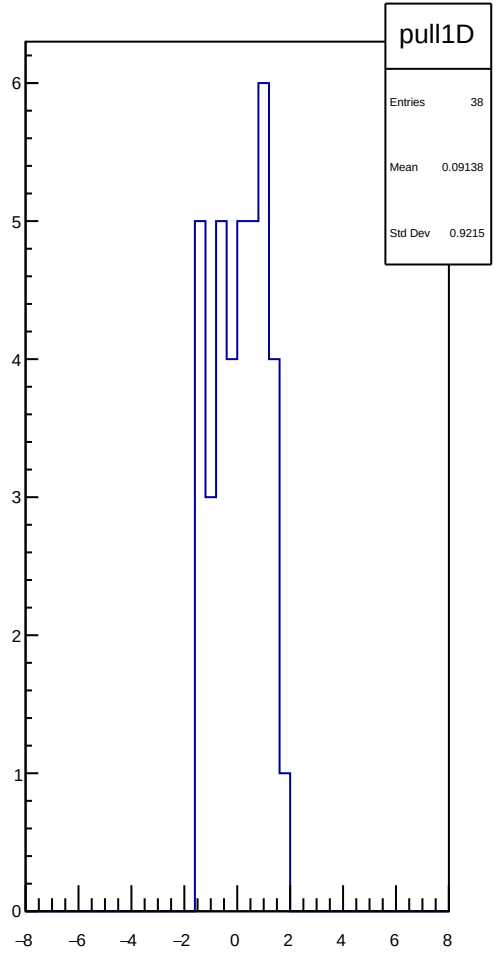

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 29.1 / 37
p0 −121.7 ± 1.745
pull
Entries 38
Mean −66.62
Std Dev 87.14

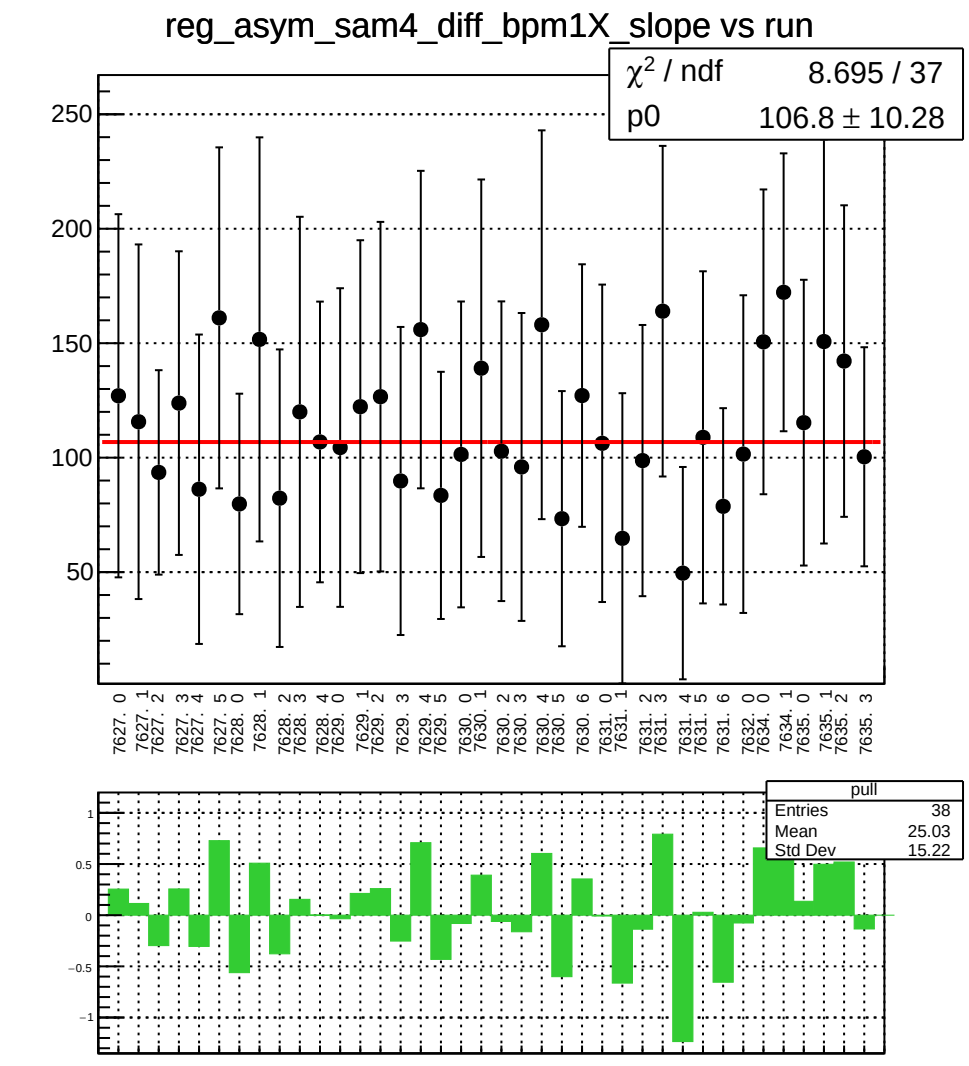

pull1D
Entries 38
Mean −0.02518
Std Dev 0.8748

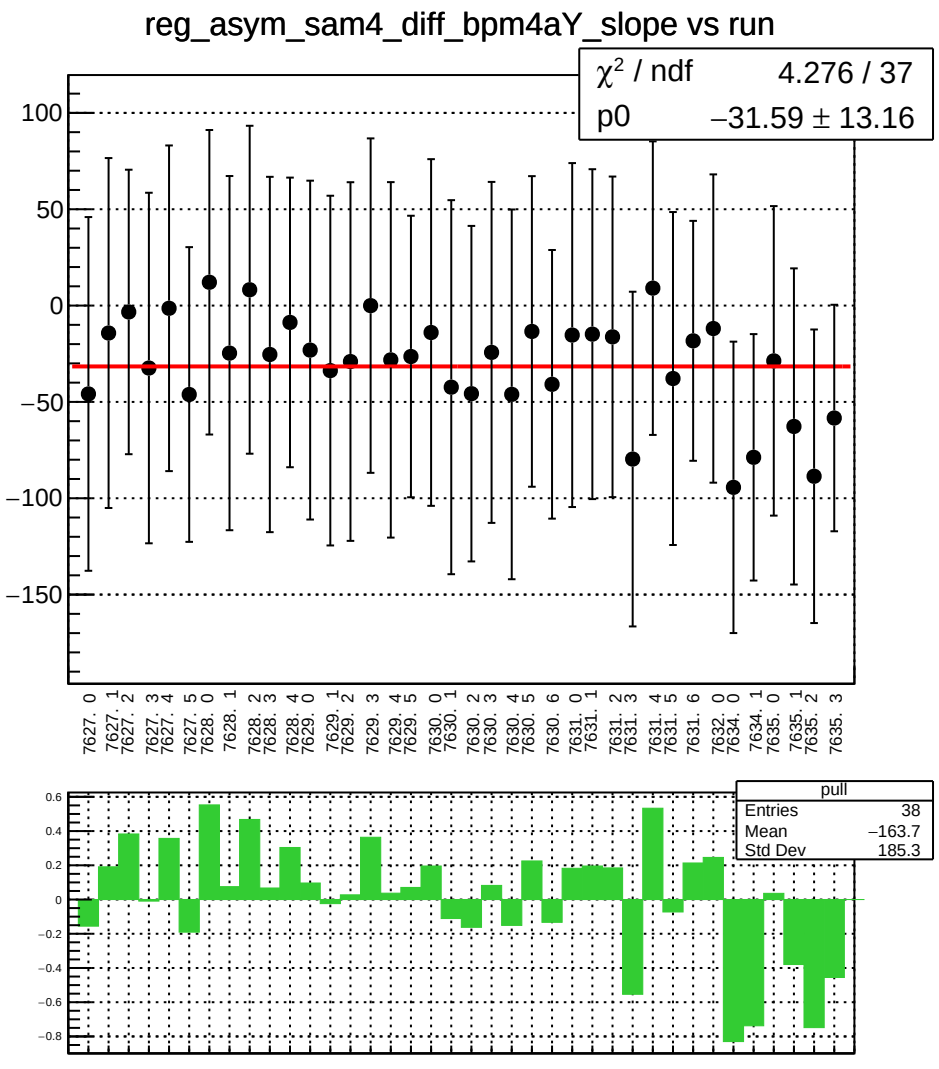

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 31.86 / 37
p0 49.18 ± 3.988
140
120
100
80
60
40
20
0
−20
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 226.4
Std Dev 203.3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

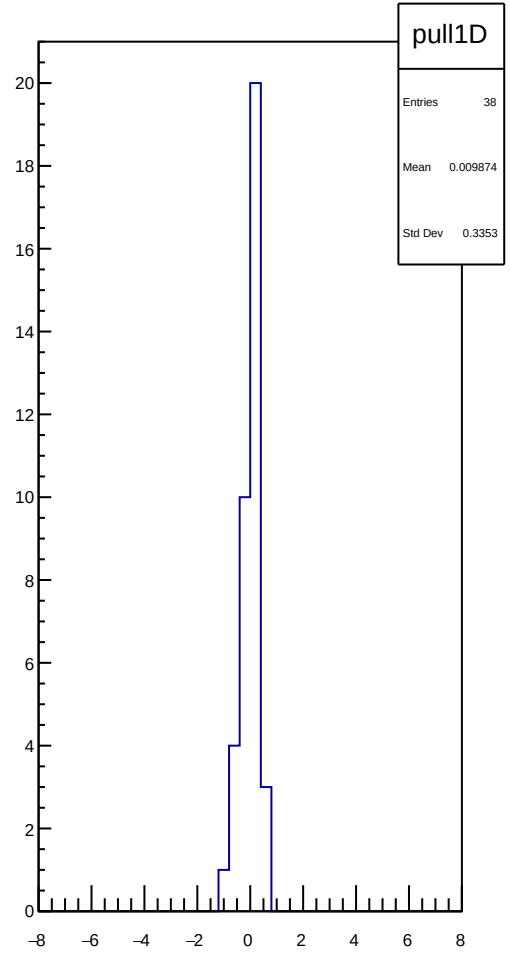

pull1D
Entries 38
Mean 0.01909
Std Dev 0.9154
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

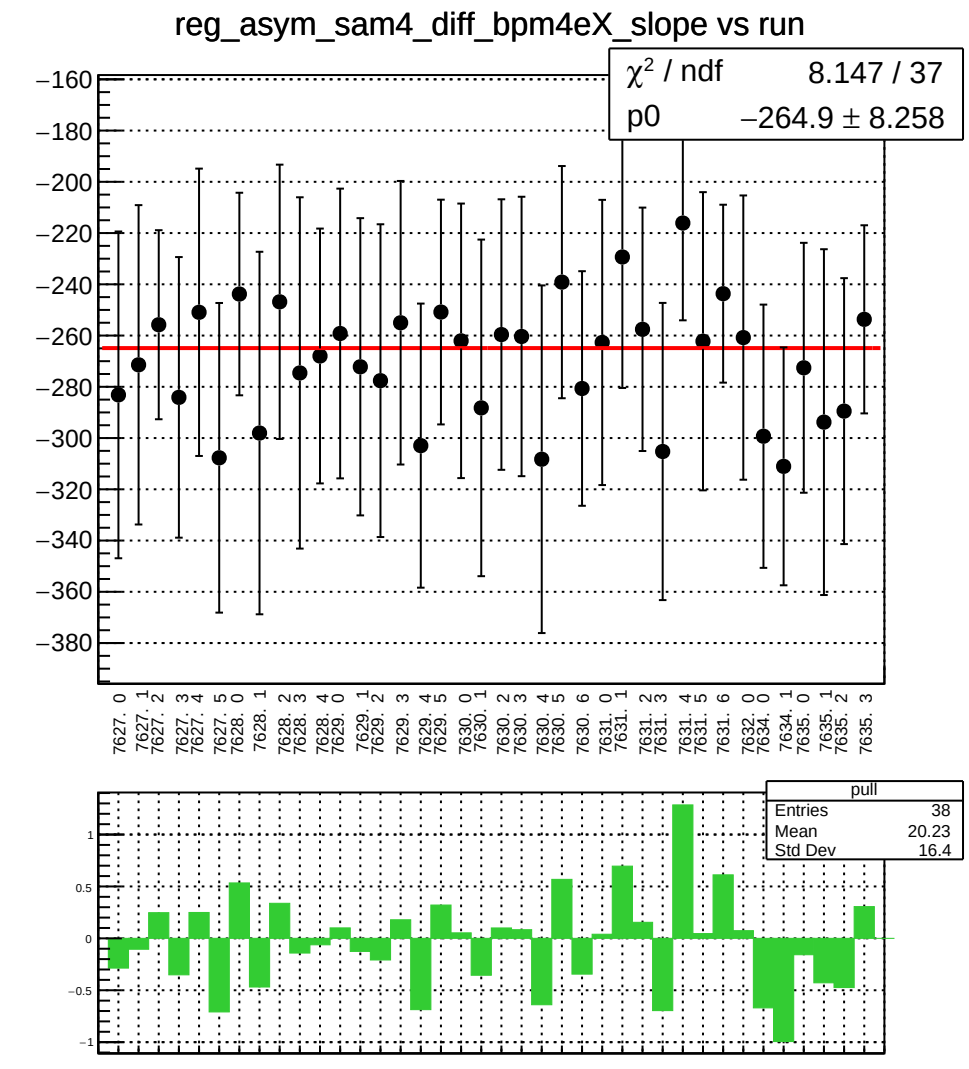

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 32.58 / 37
p0 5.059 ± 0.2764
pull
Entries 38
Mean 35.52
Std Dev 14.15

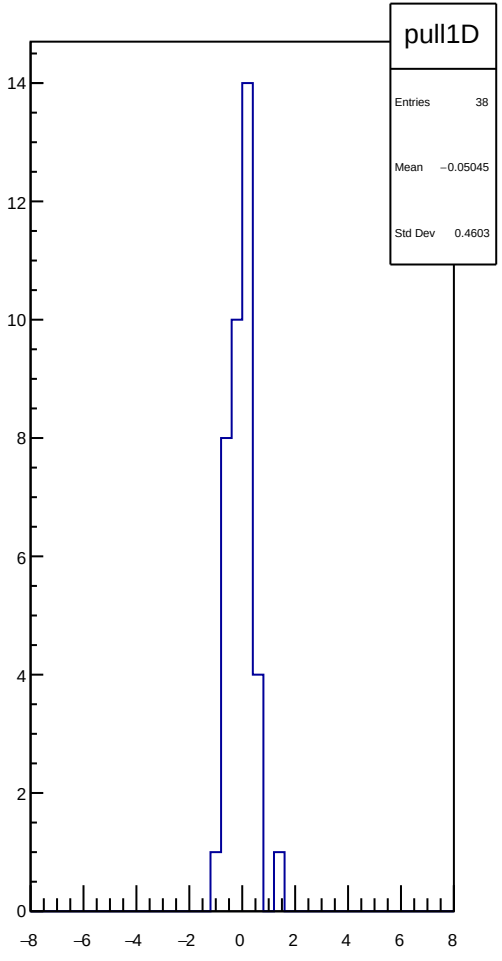

pull1D
Entries 38
Mean 0.09138
Std Dev 0.9215

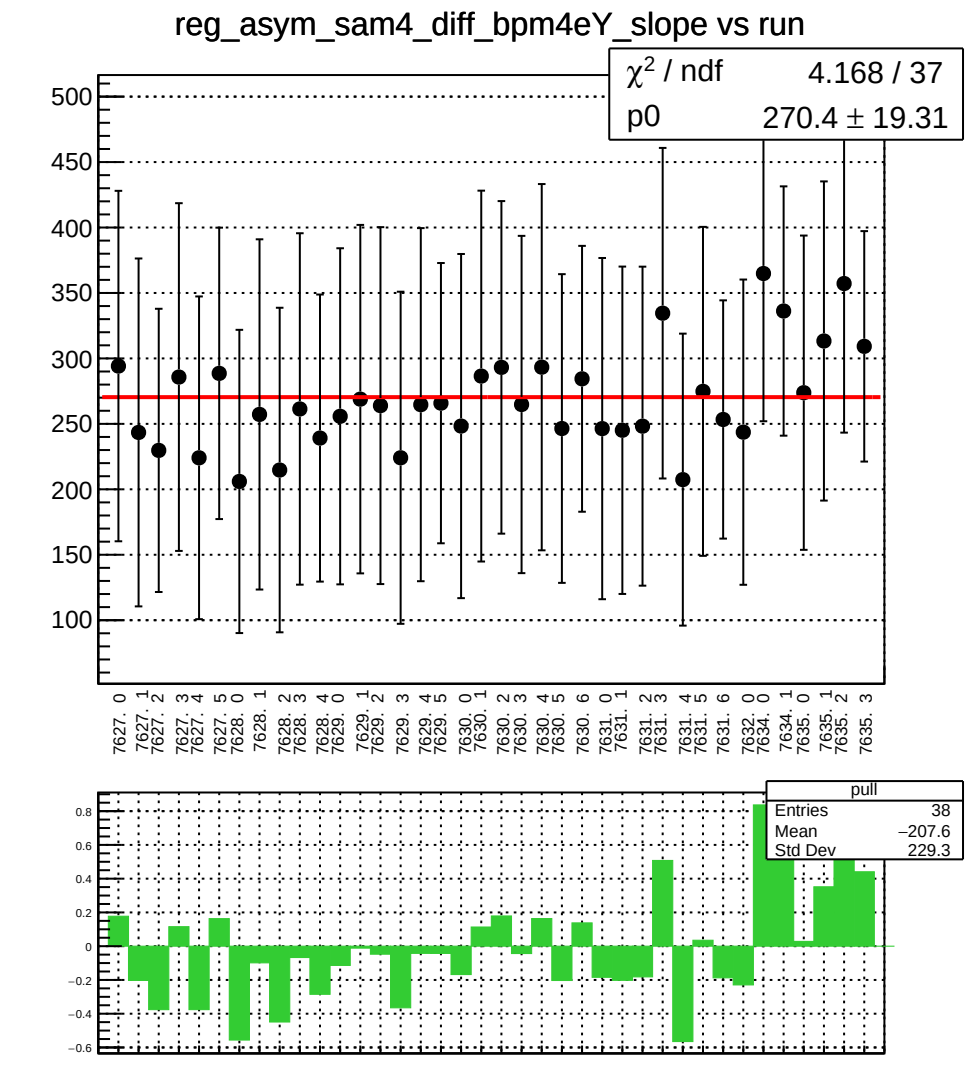

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 8.695 / 37
p0 106.8 ± 10.28
250
200
150
100
50
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 4
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 25.03
Std Dev 15.22
1
0.5
0
−0.5
−1
pull1D
Entries 38
Mean 0.05739
Std Dev 0.4749
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

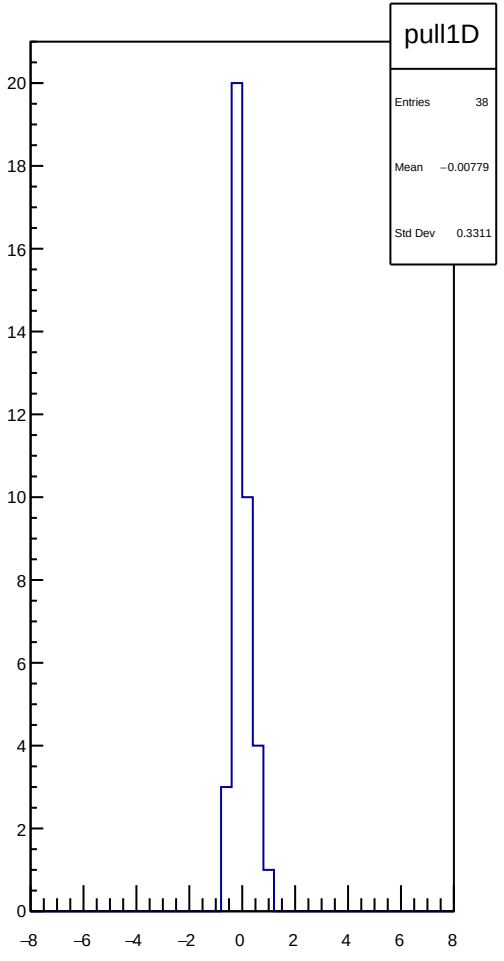

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 4.276 / 37
p0 −31.59 ± 13.16
pull
Entries 38
Mean −163.7
Std Dev 185.3

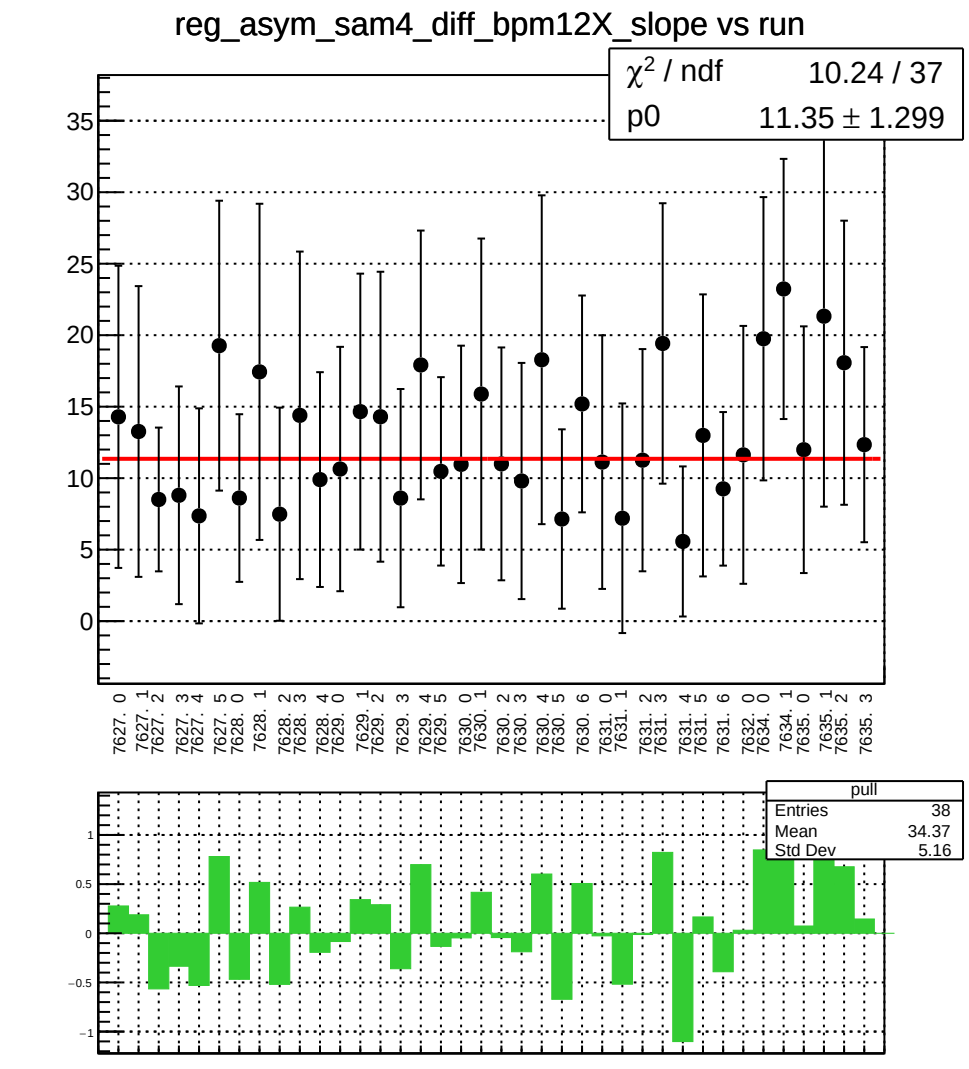

pull1D
Entries 38
Mean 0.009874
Std Dev 0.3353

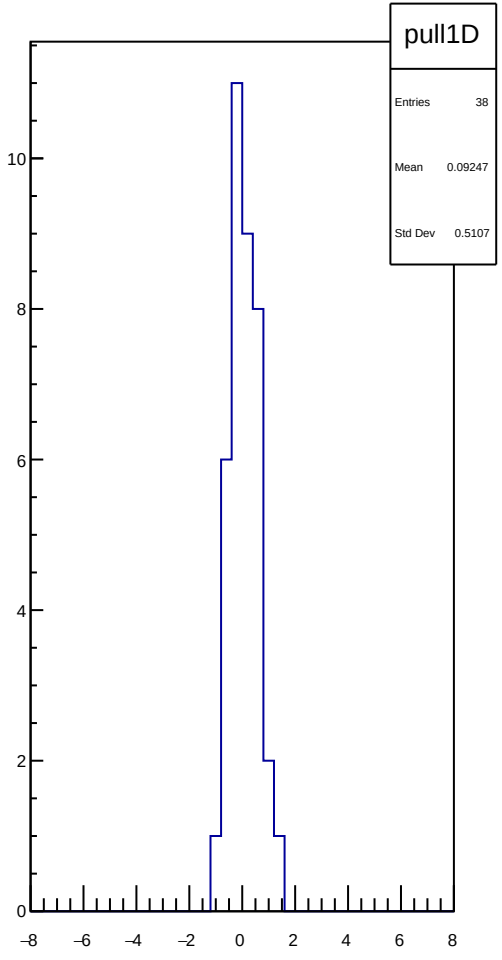

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 8.147 / 37
p0 −264.9 ± 8.258
pull
Entries 38
Mean 20.23
Std Dev 16.4

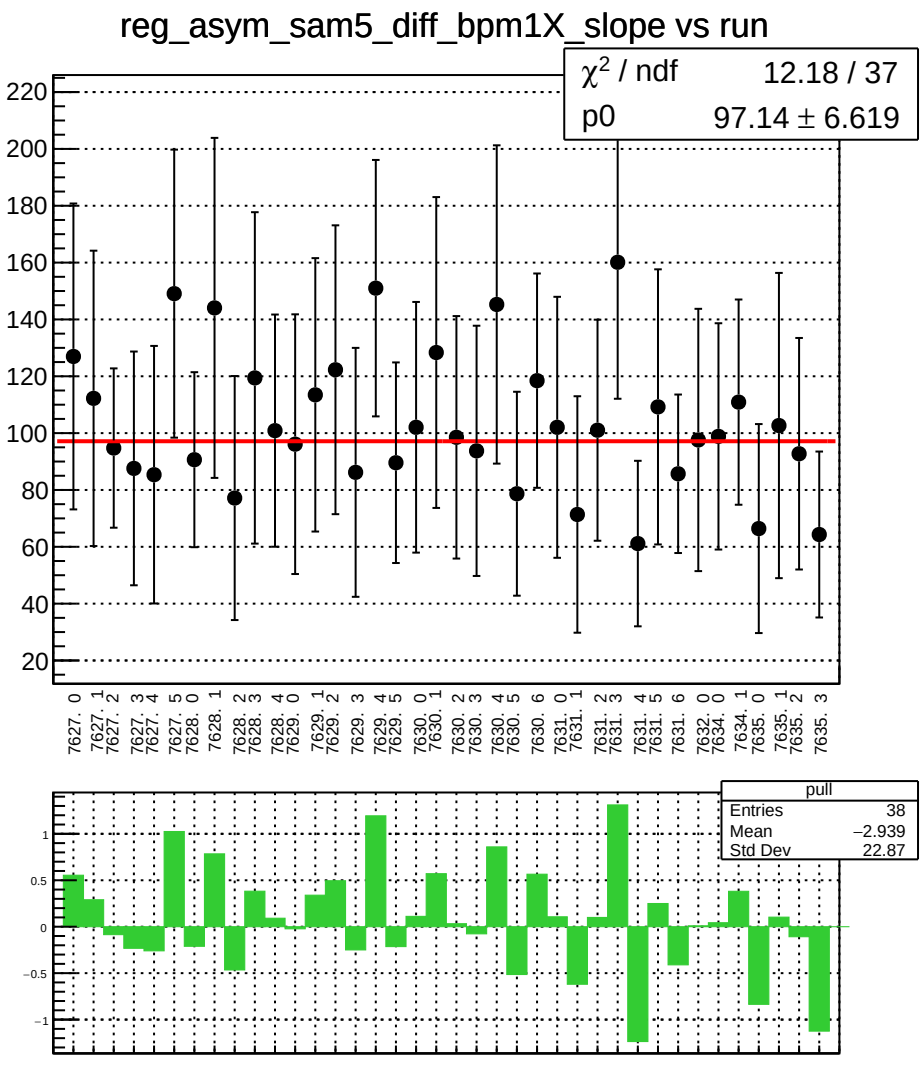

pull1D
Entries 38
Mean −0.05045
Std Dev 0.4603

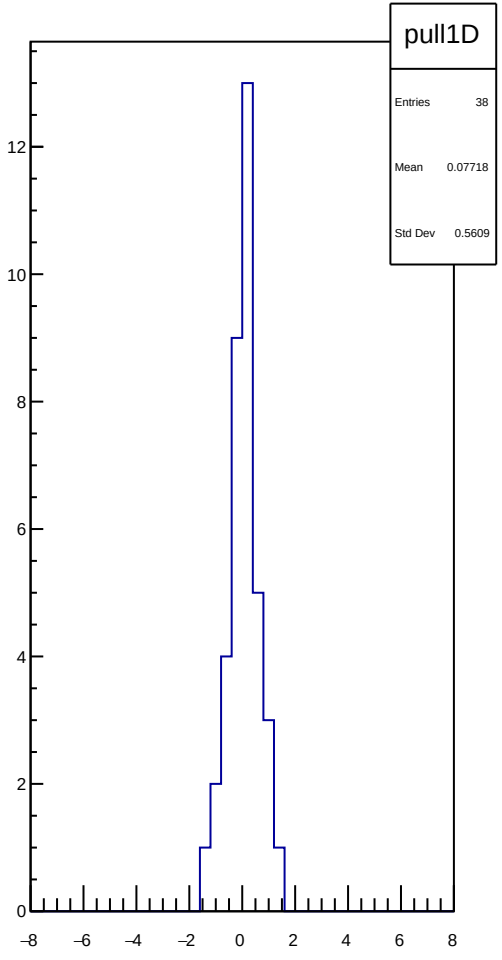

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 4.168 / 37
p0 270.4 ± 19.31
pull
Entries 38
Mean −207.6
Std Dev 229.3

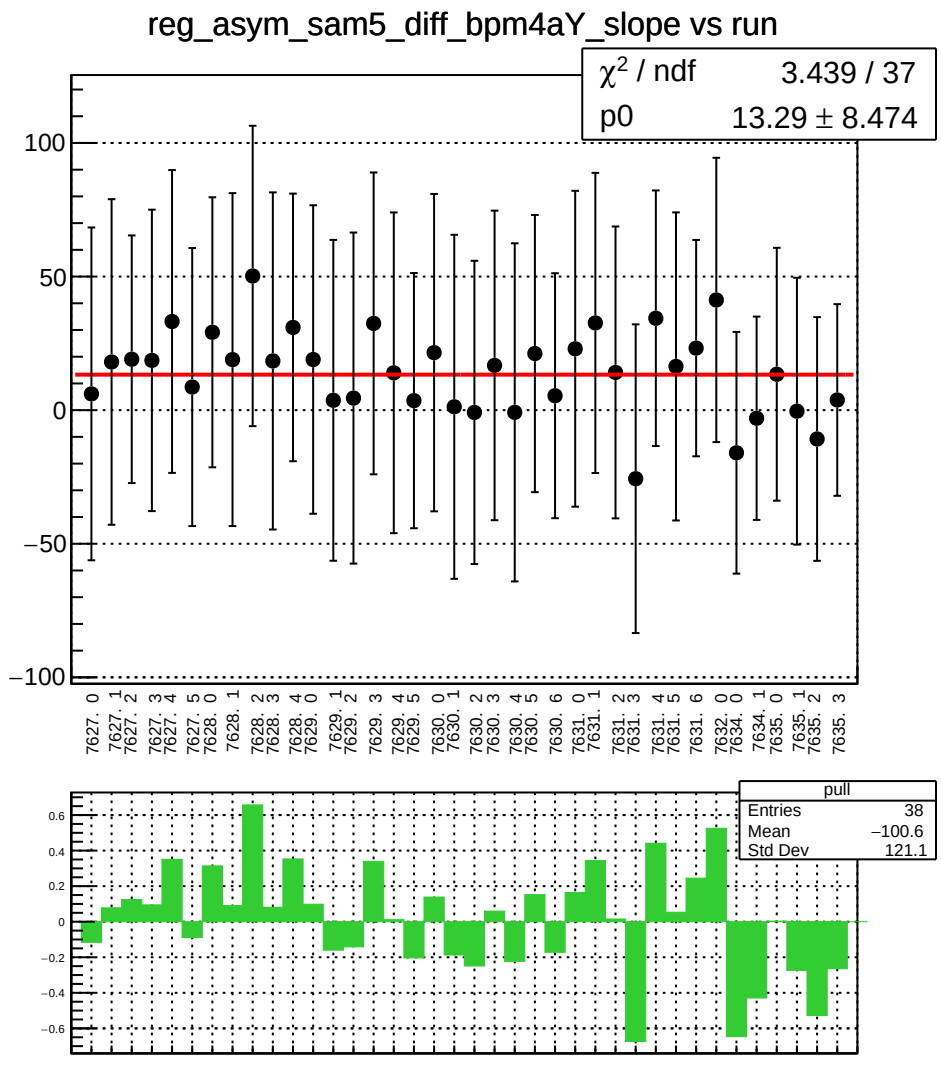

pull1D
Entries 38
Mean −0.00779
Std Dev 0.3311

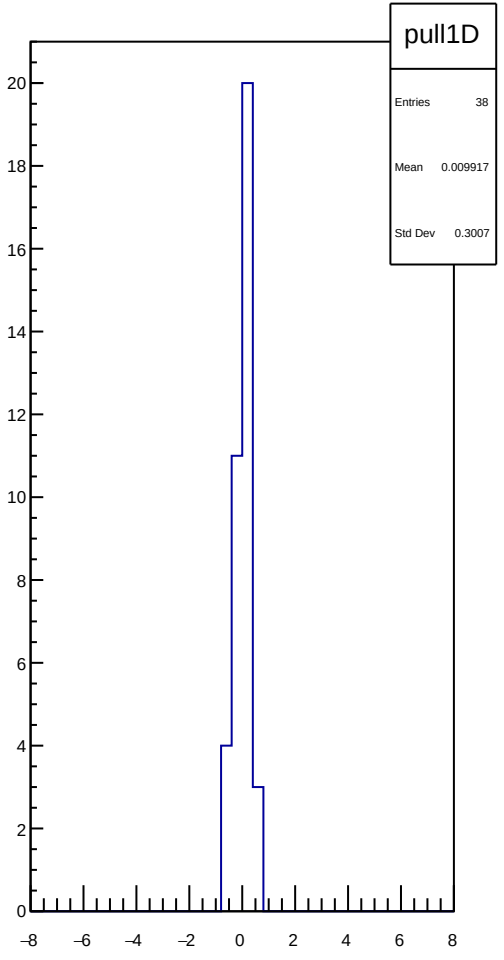

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 10.24 / 37
p0 11.35 ± 1.299
pull
Entries 38
Mean 34.37
Std Dev 5.16

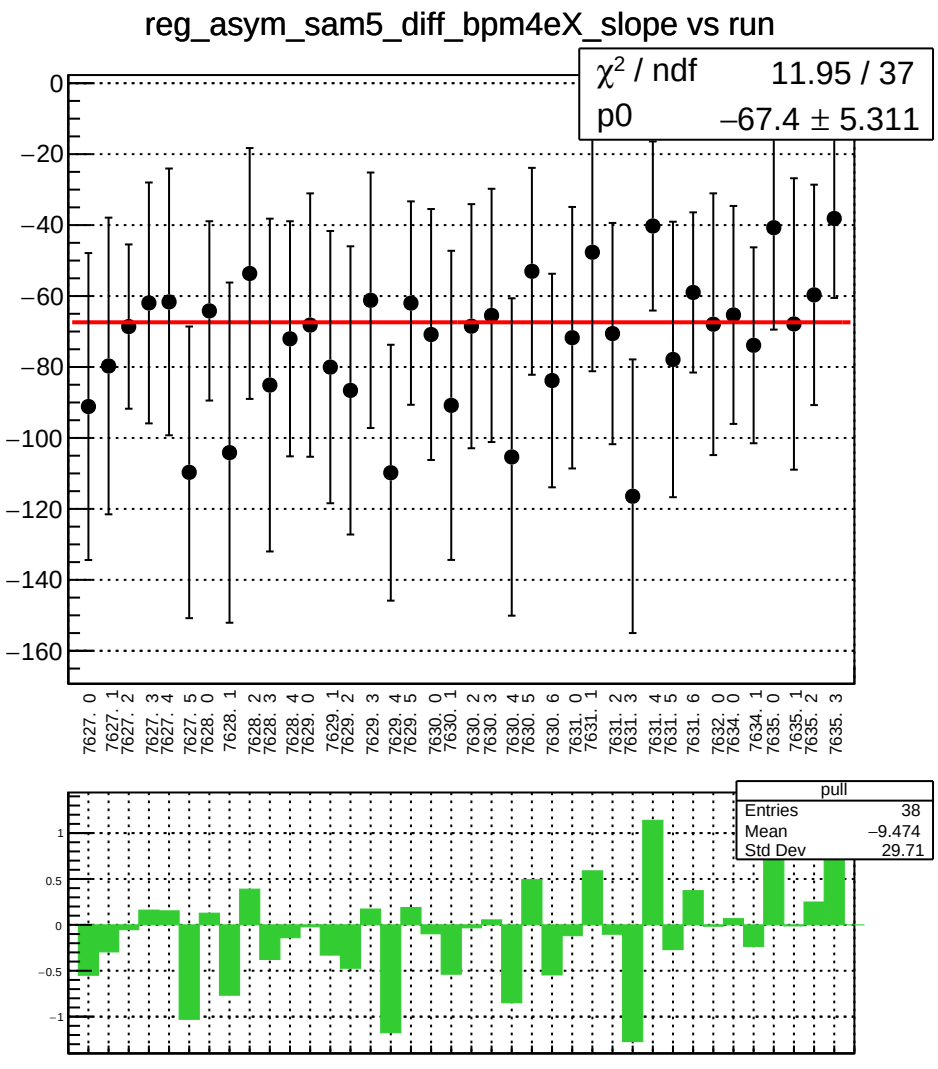

pull1D
Entries 38
Mean 0.09247
Std Dev 0.5107

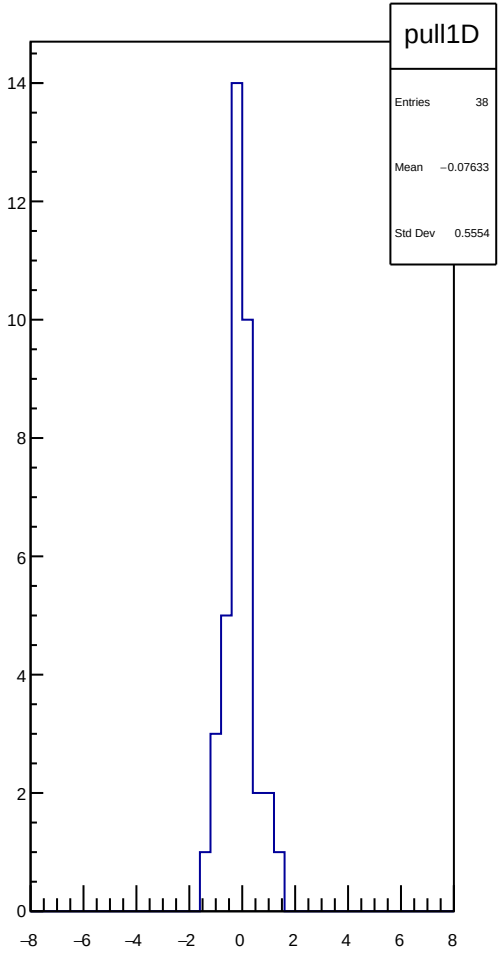

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 12.18 / 37
p0 97.14 ± 6.619
pull
Entries 38
Mean −2.939
Std Dev 22.87

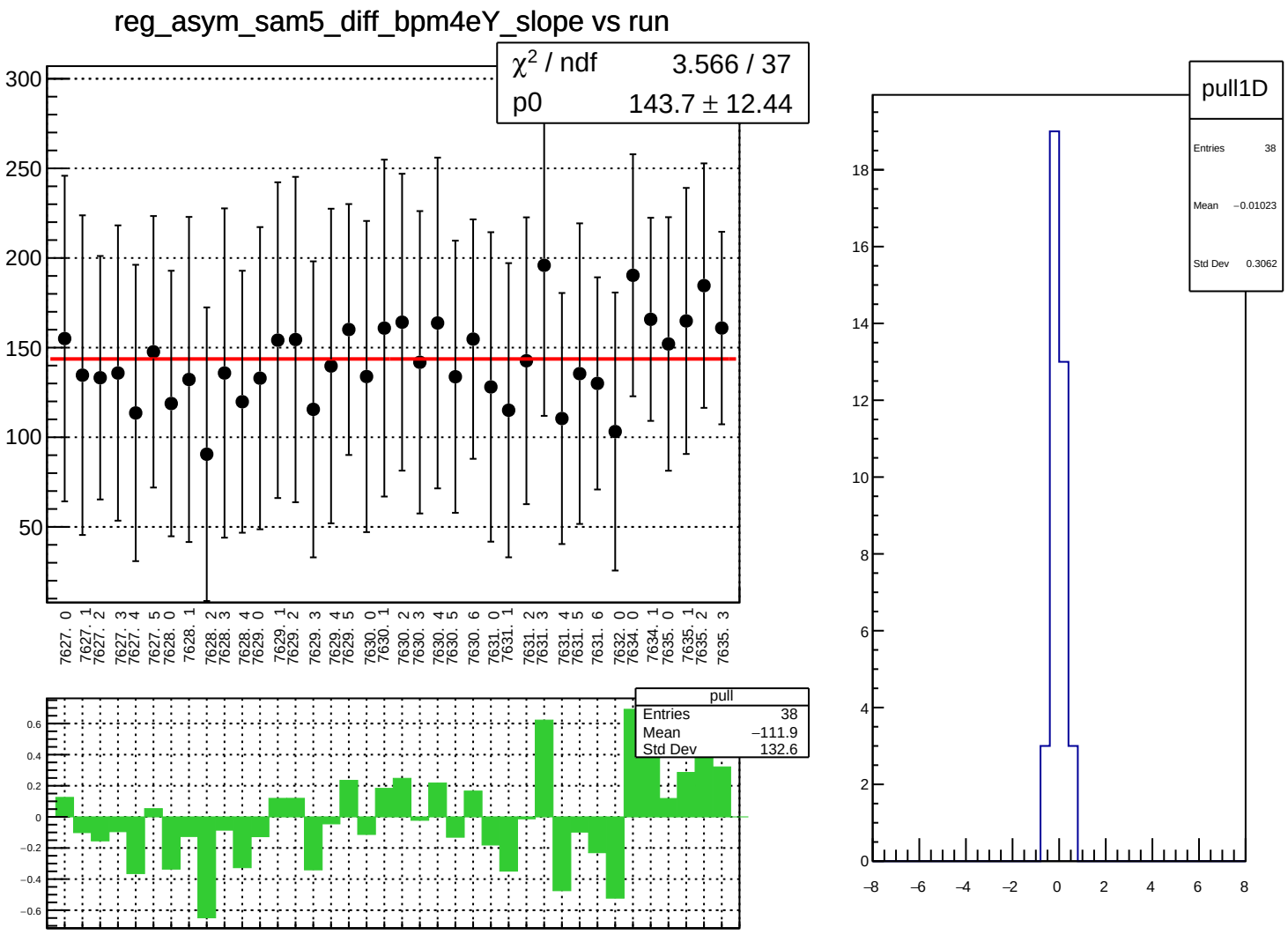

pull1D
Entries 38
Mean 0.07718
Std Dev 0.5609

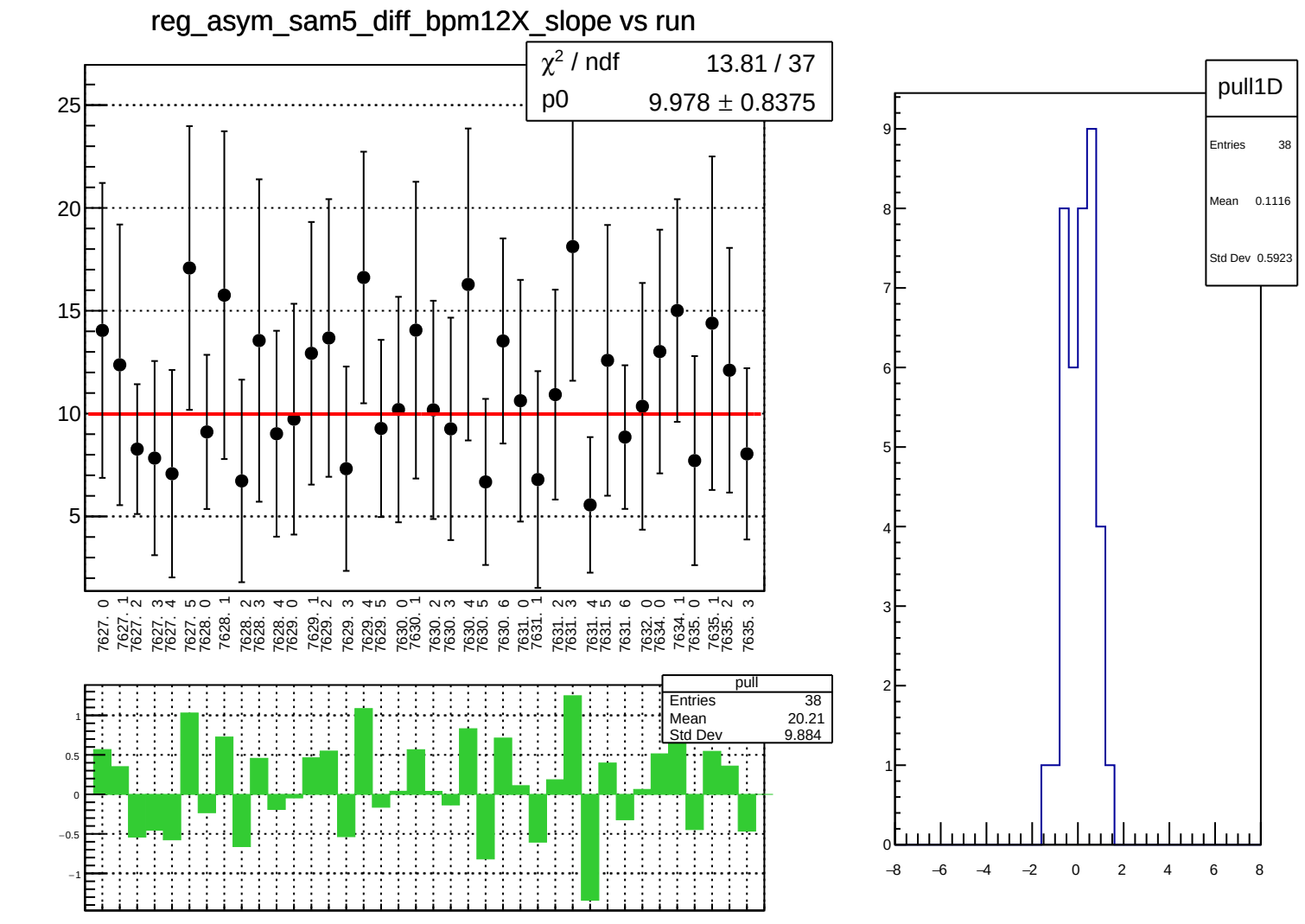

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 3.439 / 37
p0 13.29 ± 8.474
100
50
0
−50
−100
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −100.6
Std Dev 121.1
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

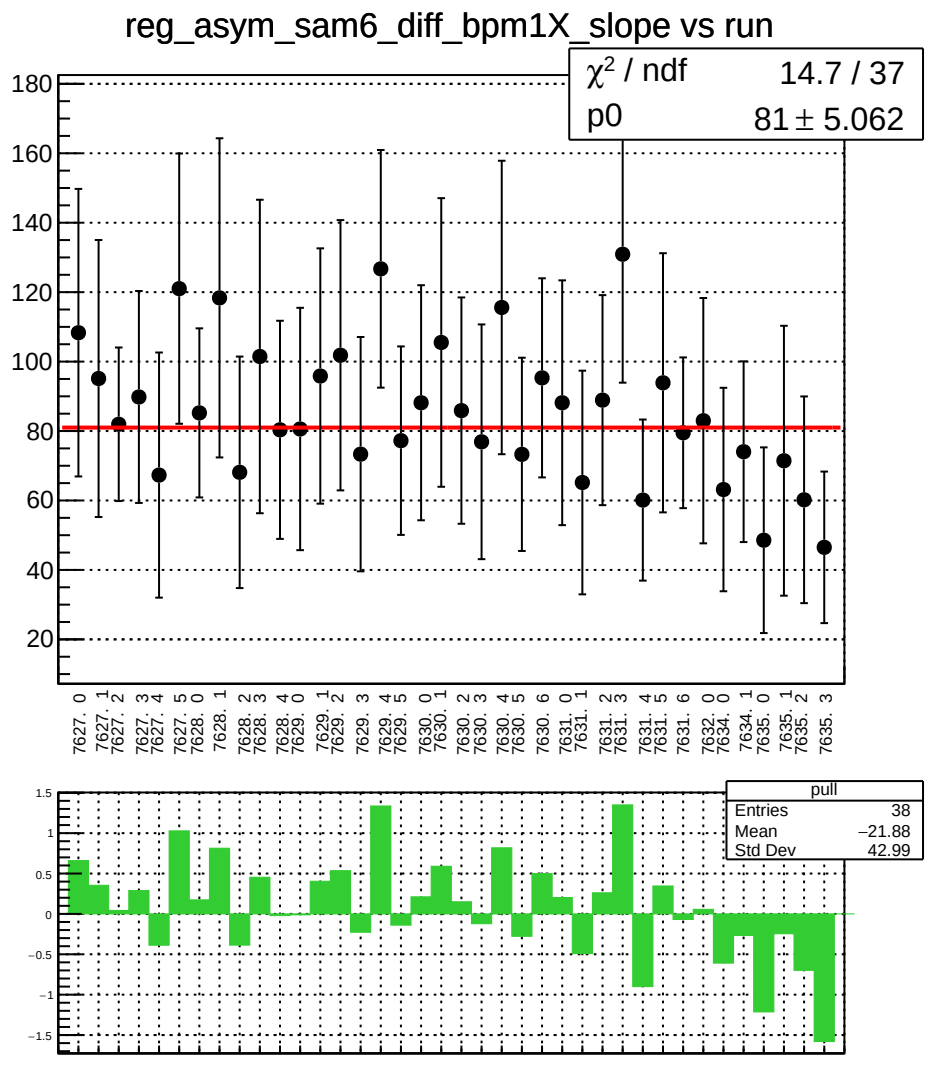

pull1D
Entries 38
Mean 0.009917
Std Dev 0.3007
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

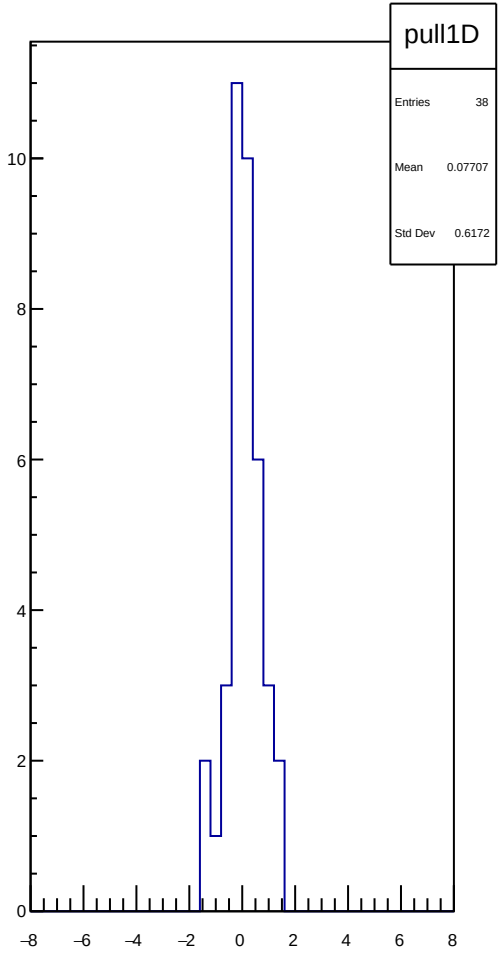

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 11.95 / 37
p0 −67.4 ± 5.311
0
−20
−40
−60
−80
−100
−120
−140
−160
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −9.474
Std Dev 29.71
1
0.5
0
−0.5
−1

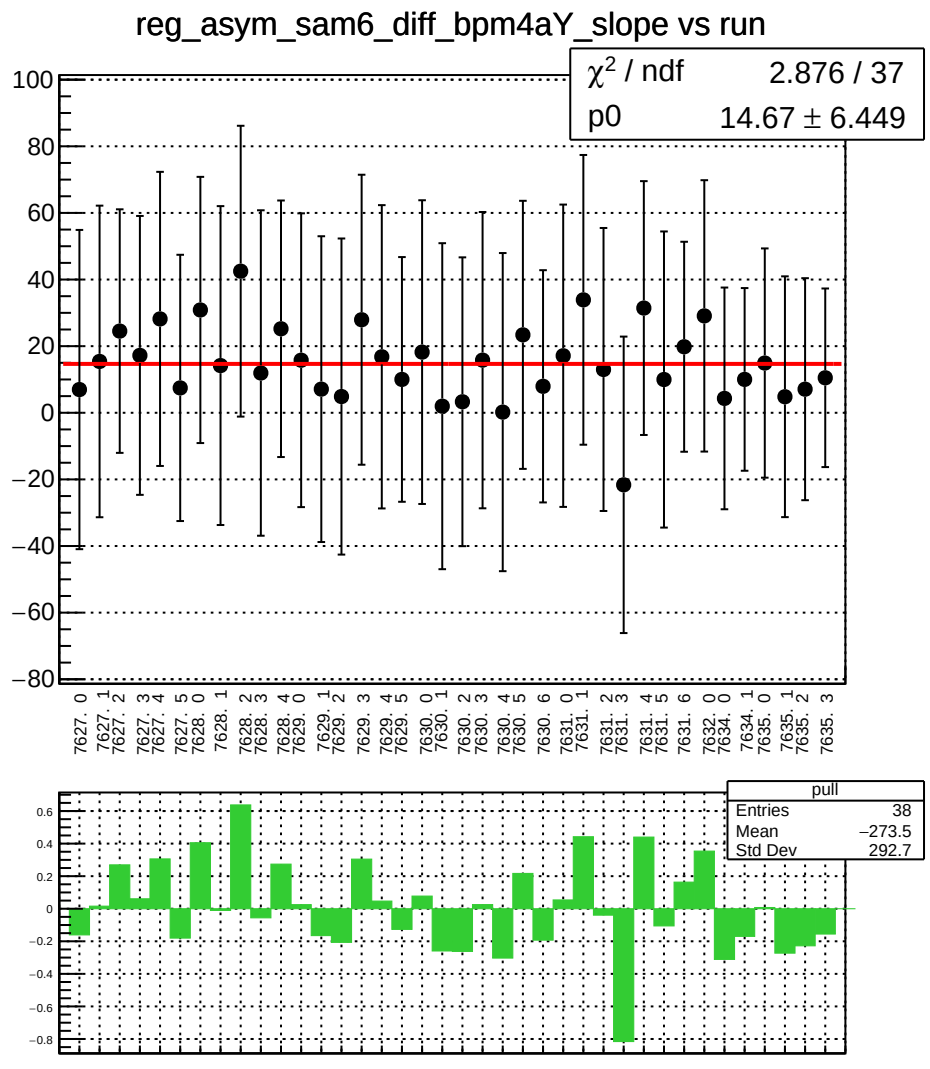

pull1D
Entries 38
Mean −0.07633
Std Dev 0.5554
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

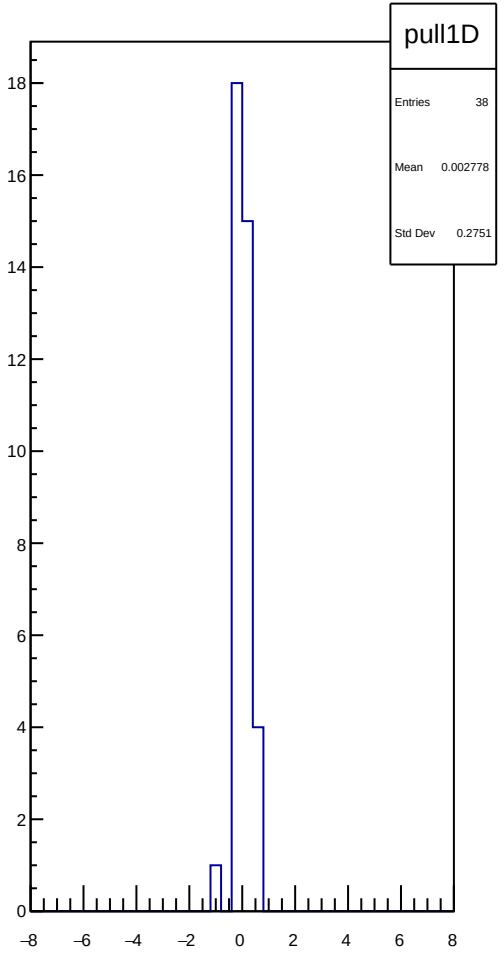

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 3.566 / 37
p0 143.7 ± 12.44
300
250
200
150
100
50
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −111.9
Std Dev 132.6
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 38
Mean −0.01023
Std Dev 0.3062
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

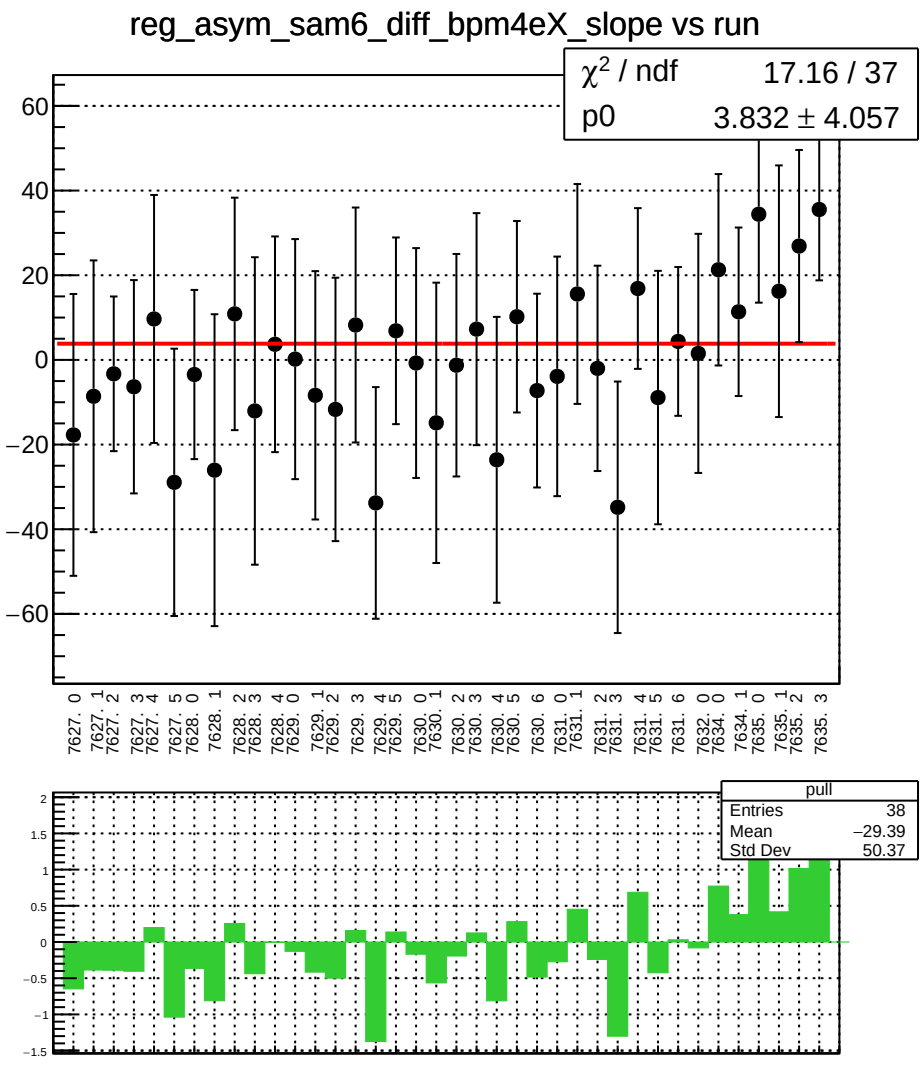

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 13.81 / 37
p0 9.978 ± 0.8375
pull
Entries 38
Mean 20.21
Std Dev 9.884
pull1D
Entries 38
Mean 0.1116
Std Dev 0.5923

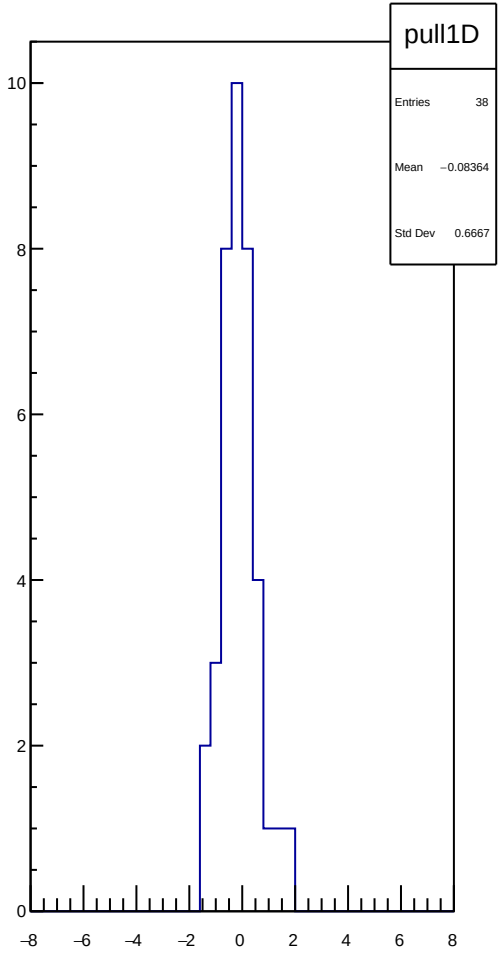

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 14.7 / 37
p0 81 ± 5.062
pull
Entries 38
Mean −21.88
Std Dev 42.99

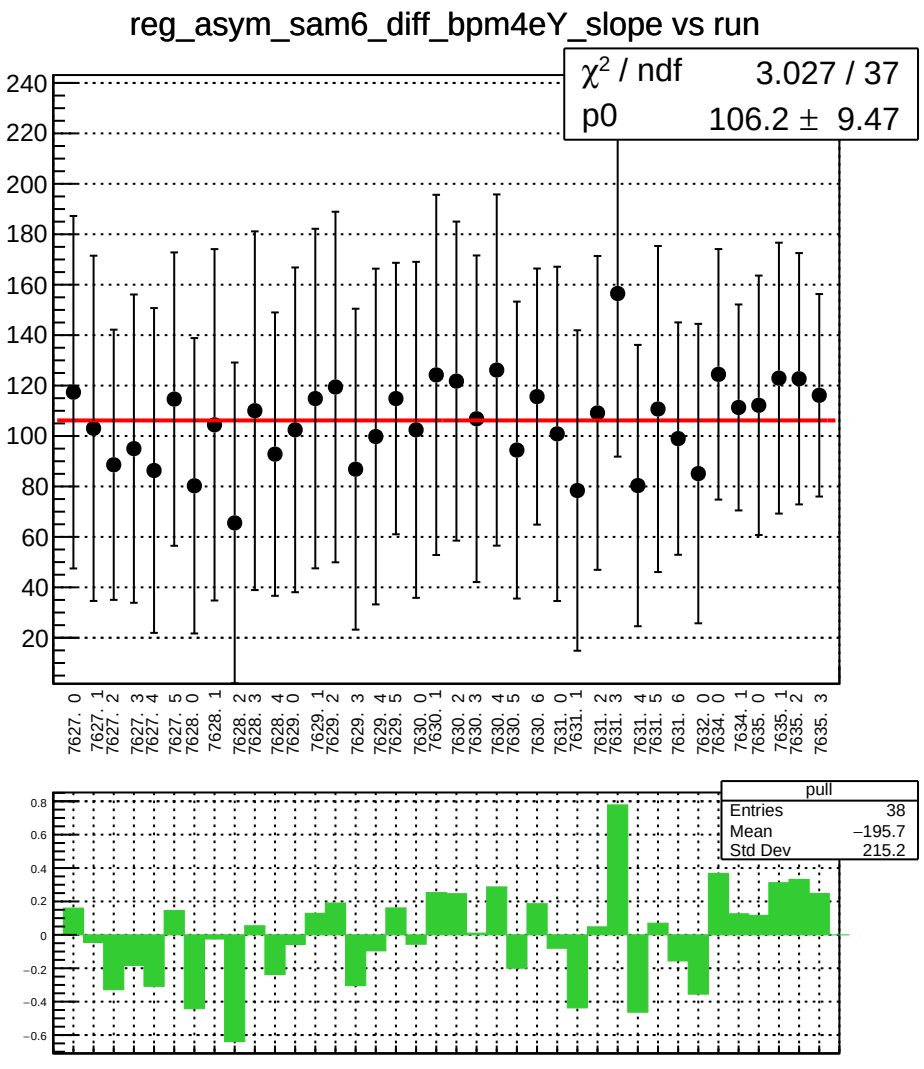

pull1D
Entries 38
Mean 0.07707
Std Dev 0.6172

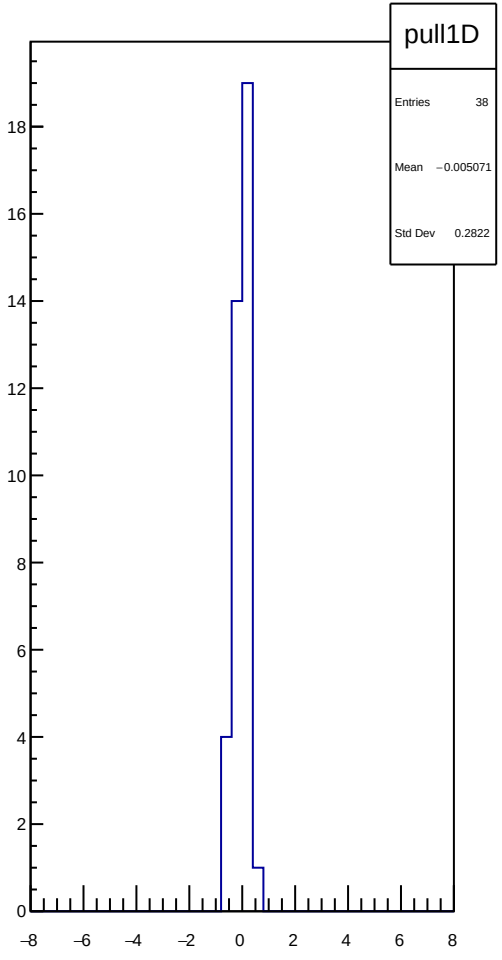

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 2.876 / 37
p0 14.67 ± 6.449
pull
Entries 38
Mean −273.5
Std Dev 292.7

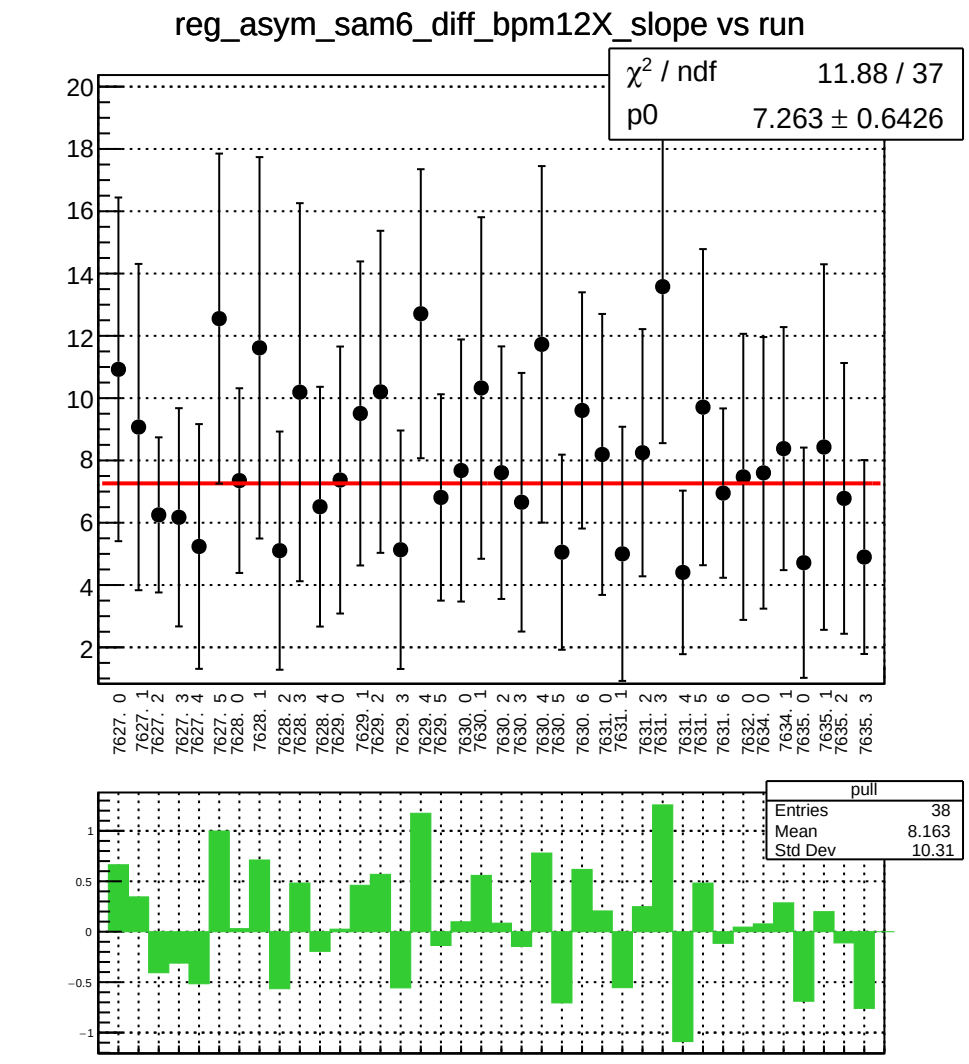

pull1D
Entries 38
Mean 0.002778
Std Dev 0.2751

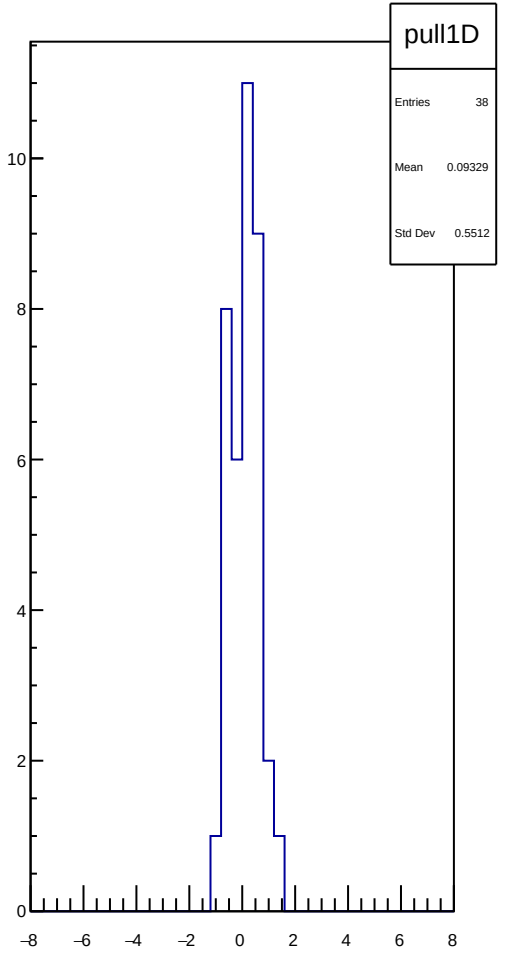

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 17.16 / 37
p0 3.832 ± 4.057
pull
Entries 38
Mean −29.39
Std Dev 50.37

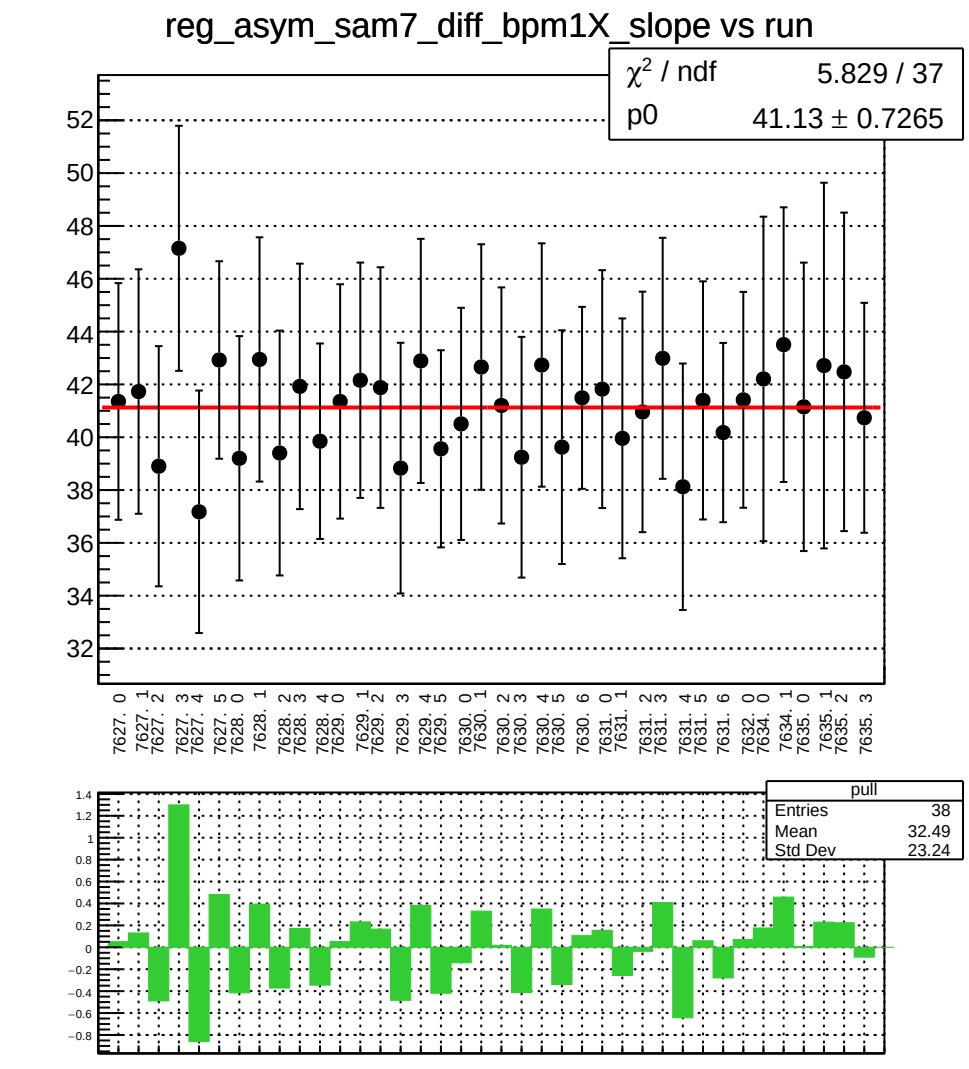

pull1D
Entries 38
Mean −0.08364
Std Dev 0.6667

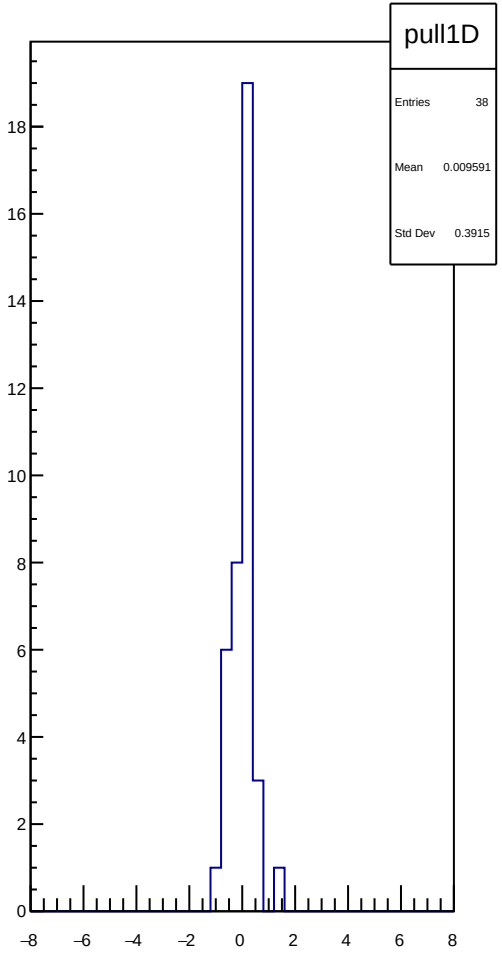

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 3.027 / 37
p0 106.2 ± 9.47
240
220
200
180
160
140
120
100
80
60
40
20
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −195.7
Std Dev 215.2
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

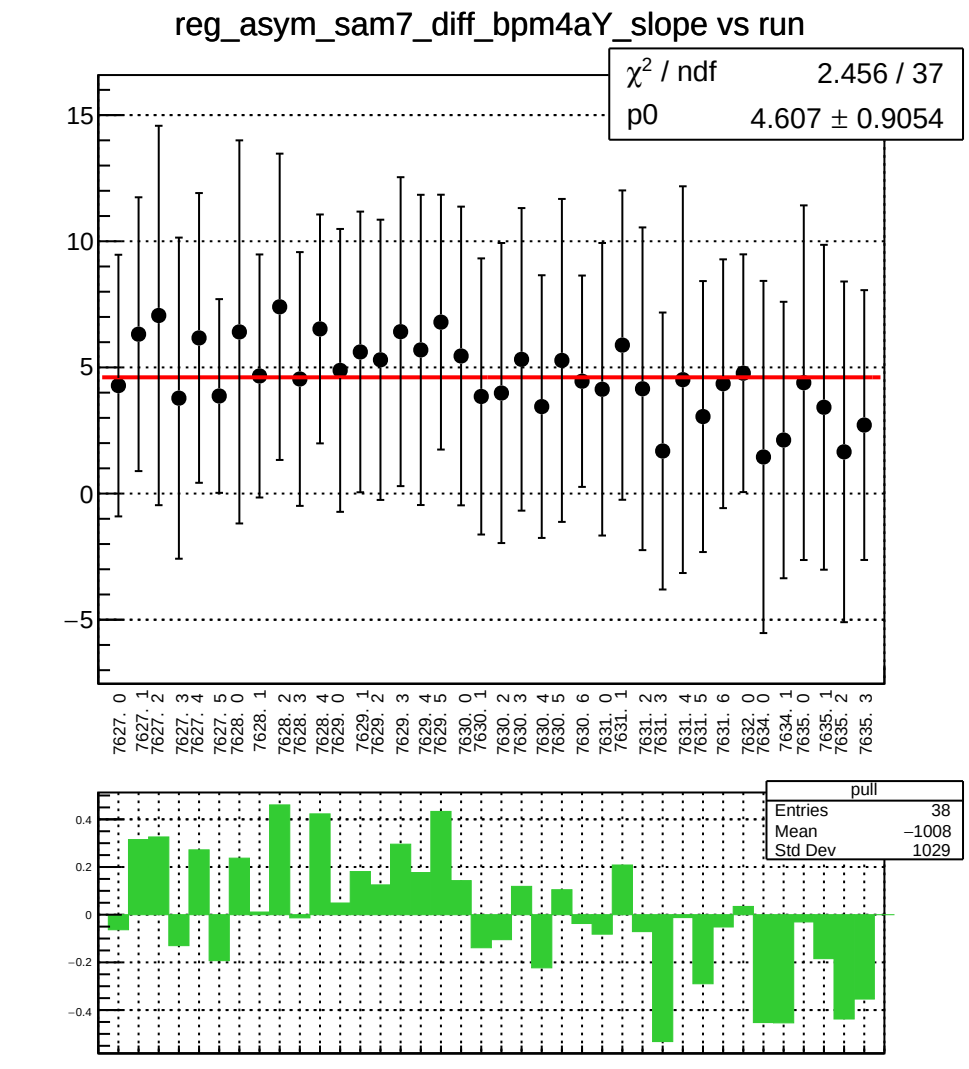

pull1D
Entries 38
Mean −0.005071
Std Dev 0.2822
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

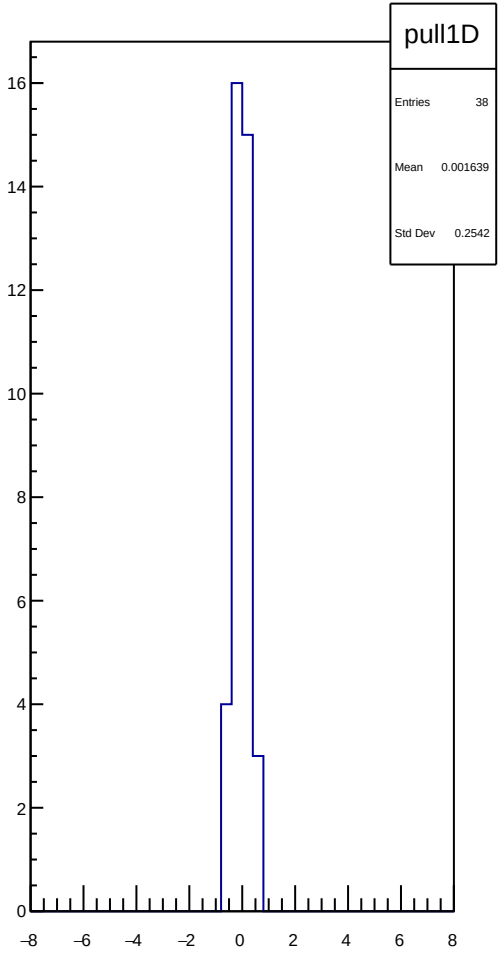

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 11.88 / 37
p0 7.263 ± 0.6426
pull
Entries 38
Mean 8.163
Std Dev 10.31

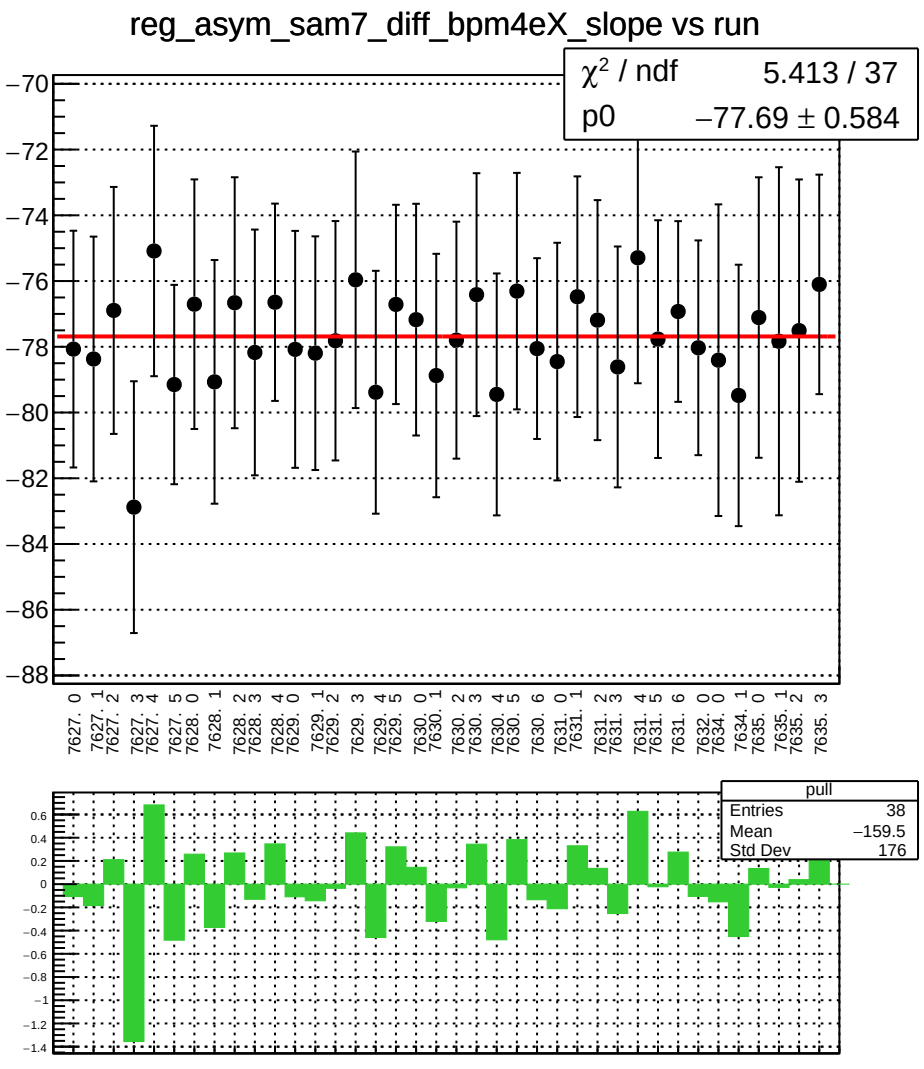

pull1D
Entries 38
Mean 0.09329
Std Dev 0.5512

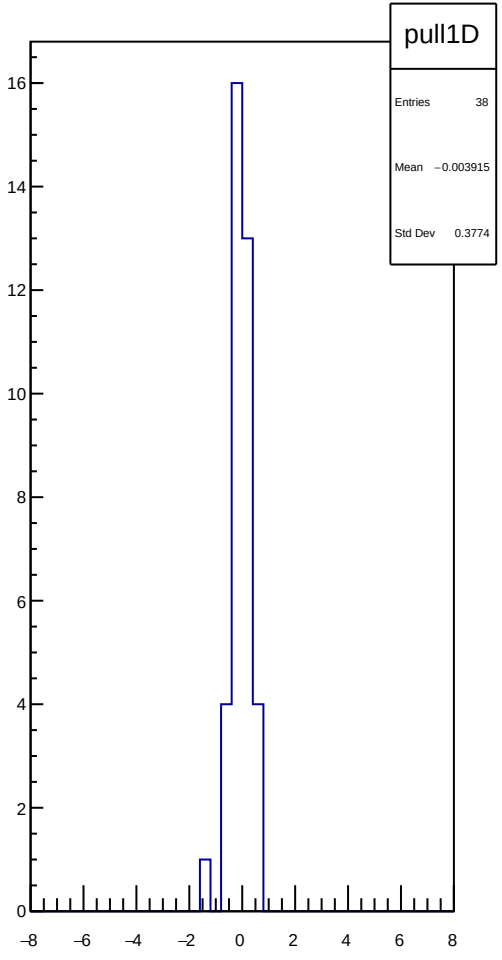

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 5.829 / 37
p0 41.13 ± 0.7265
pull
Entries 38
Mean 32.49
Std Dev 23.24

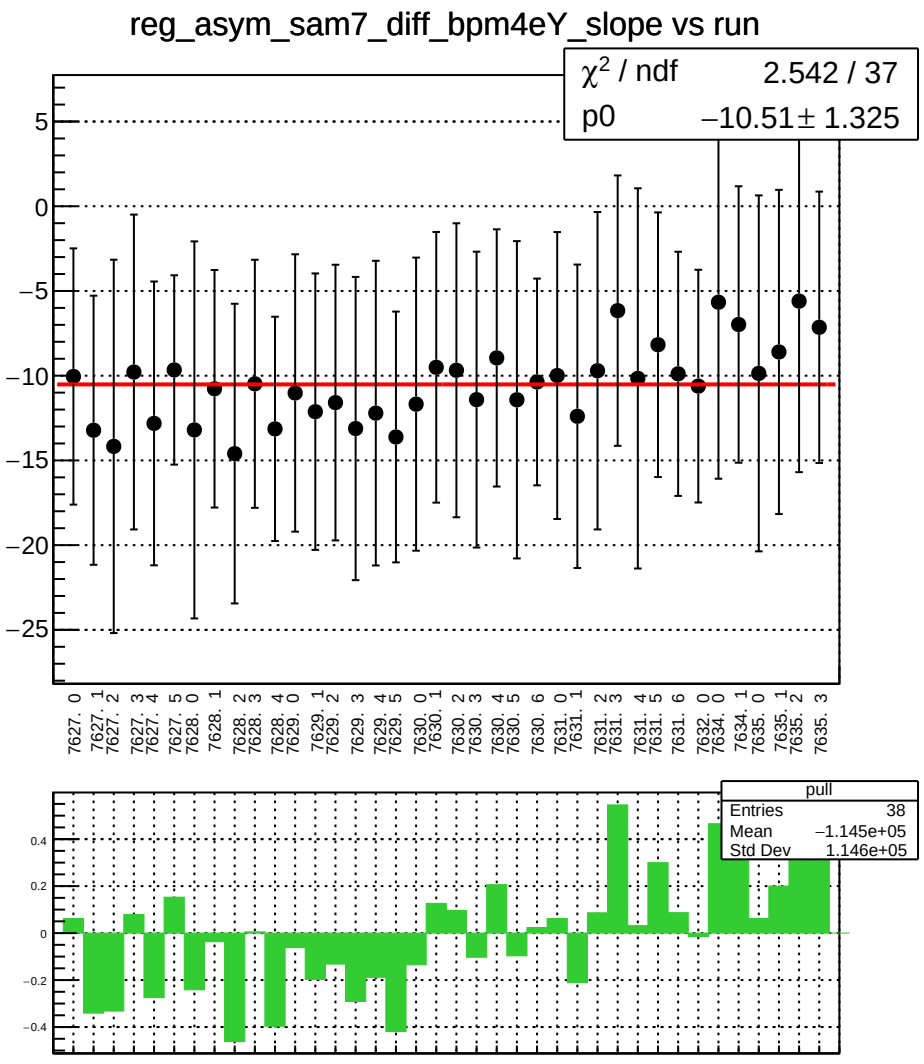

pull1D
Entries 38
Mean 0.009591
Std Dev 0.3915

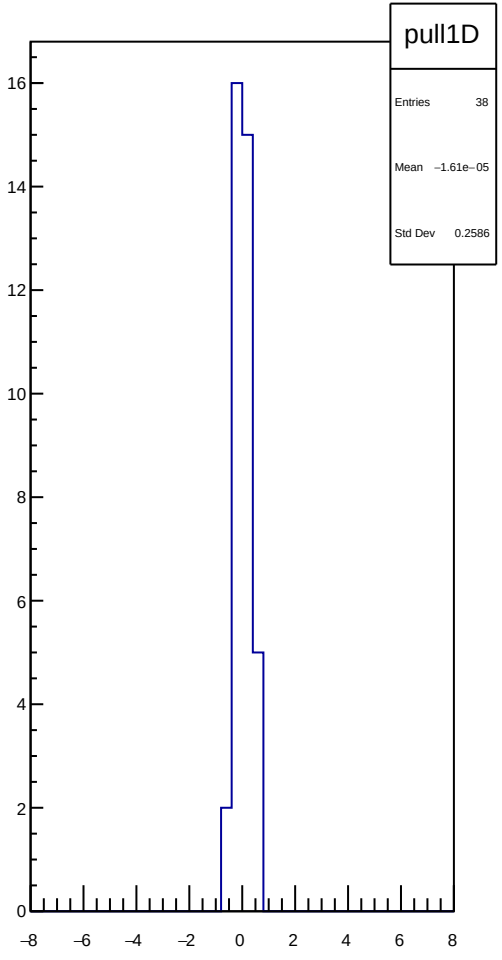

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 2.456 / 37
p0 4.607 ± 0.9054
15
10
5
0
−5
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −1008
Std Dev 1029
0.4
0.2
0
−0.2
−0.4

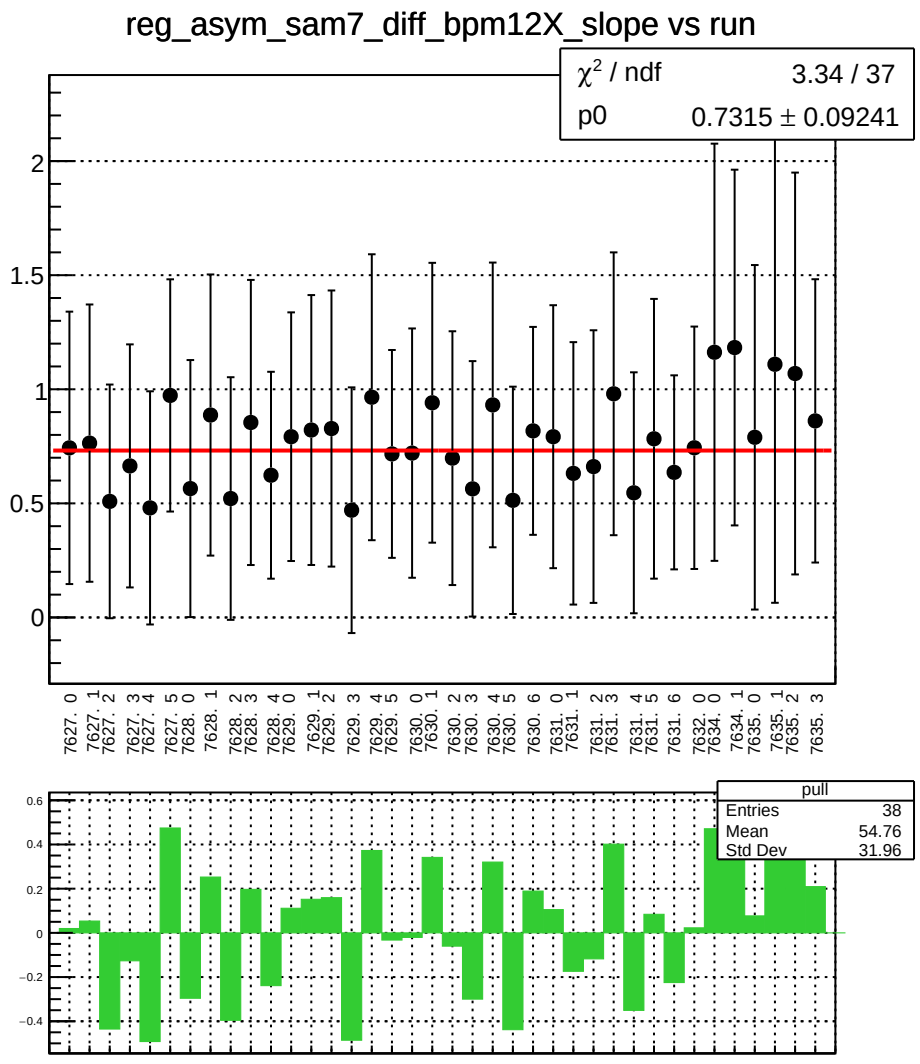

pull1D
Entries 38
Mean 0.001639
Std Dev 0.2542
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

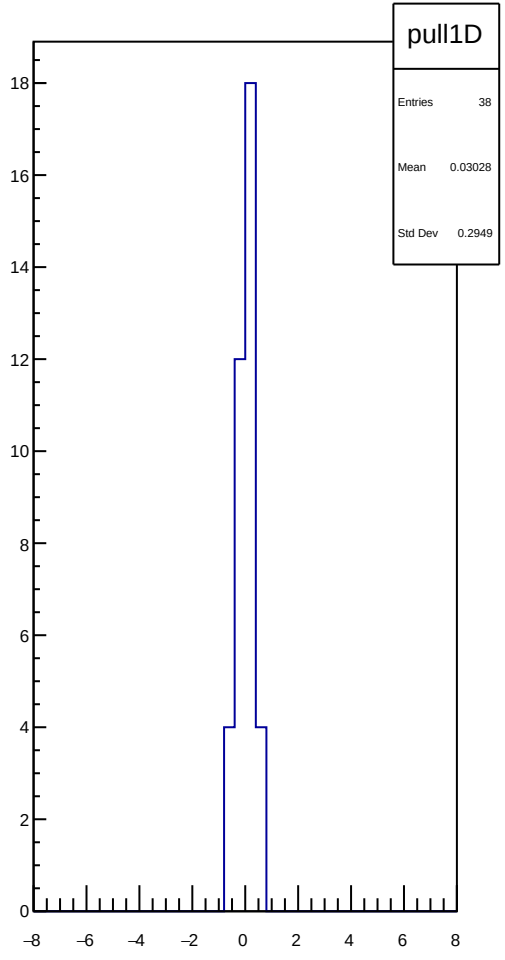

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 5.413 / 37
p0 −77.69 ± 0.584
pull
Entries 38
Mean −159.5
Std Dev 176

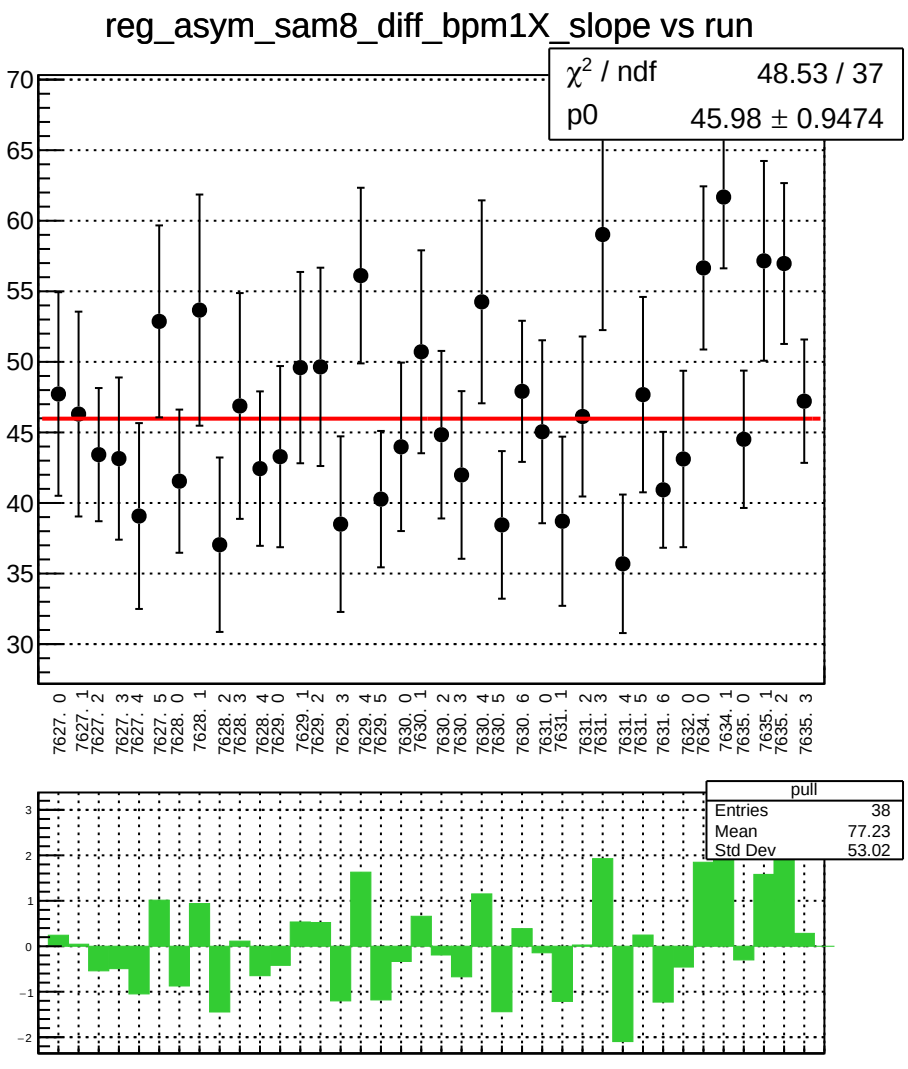

pull1D
Entries 38
Mean −0.003915
Std Dev 0.3774

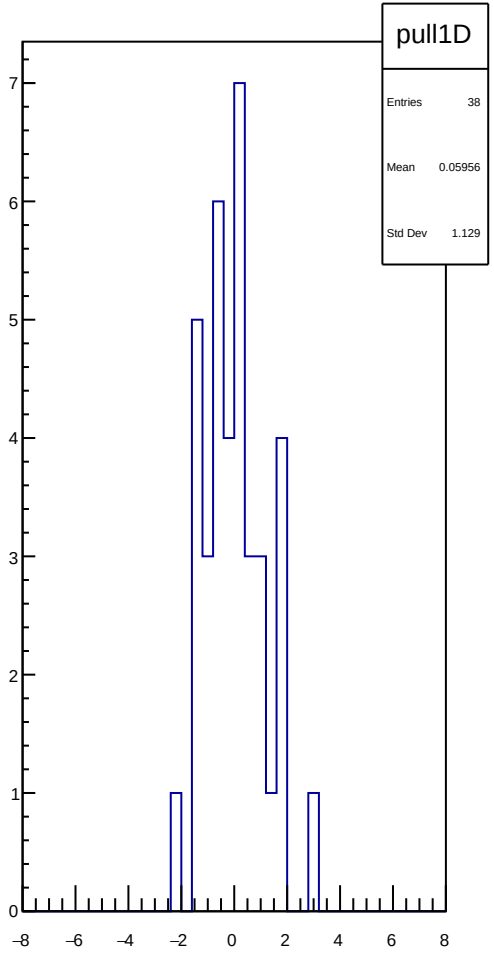

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 2.542 / 37
p0 −10.51± 1.325
5
0
−5
−10
−15
−20
−25
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −1.145e+05
Std Dev 1.146e+05
0.4
0.2
0
−0.2
−0.4

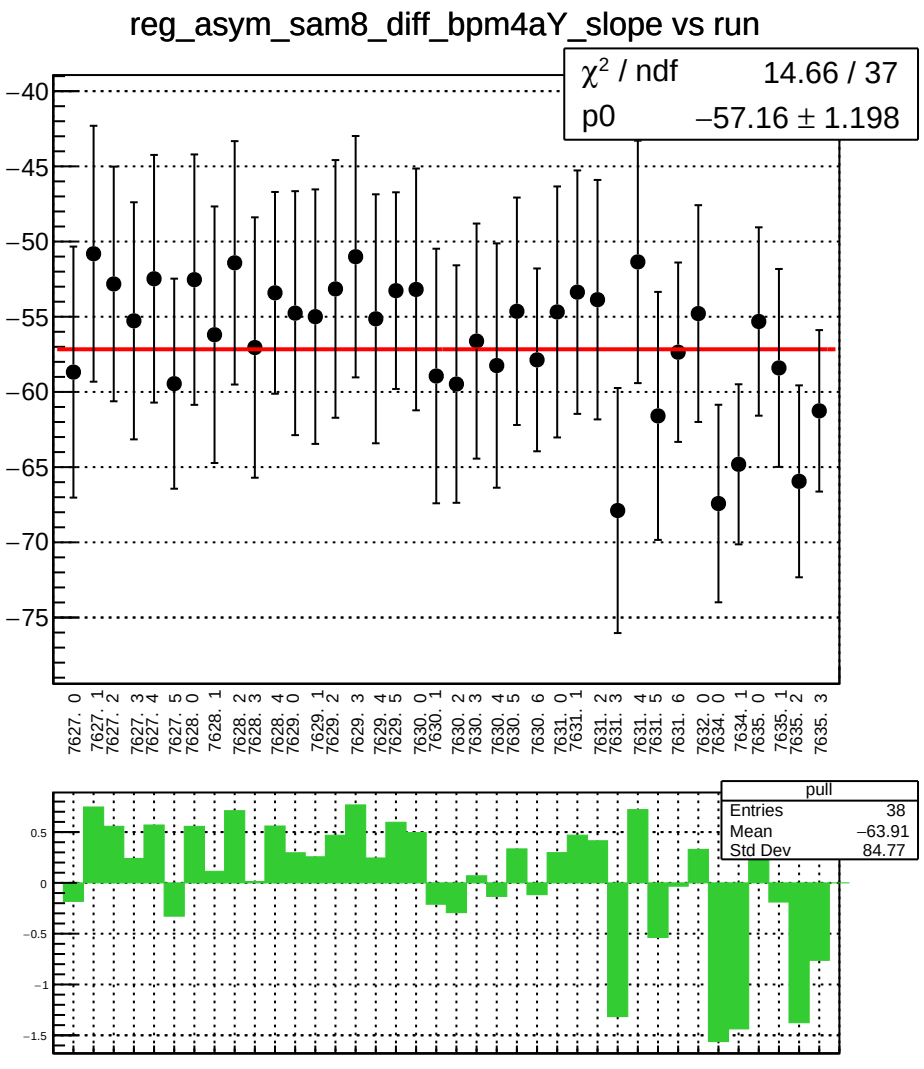

pull1D
Entries 38
Mean −1.61e−05
Std Dev 0.2586
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

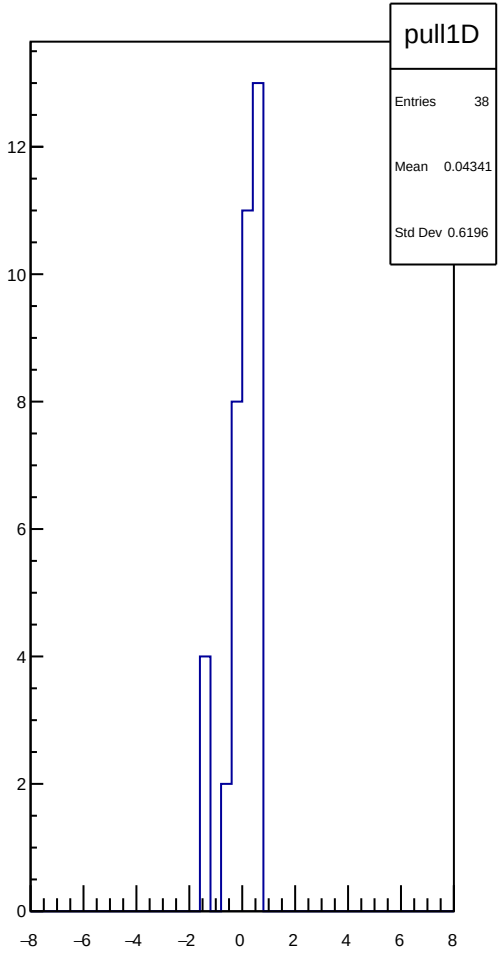

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 3.34 / 37
p0 0.7315 ± 0.09241
pull
Entries 38
Mean 54.76
Std Dev 31.96

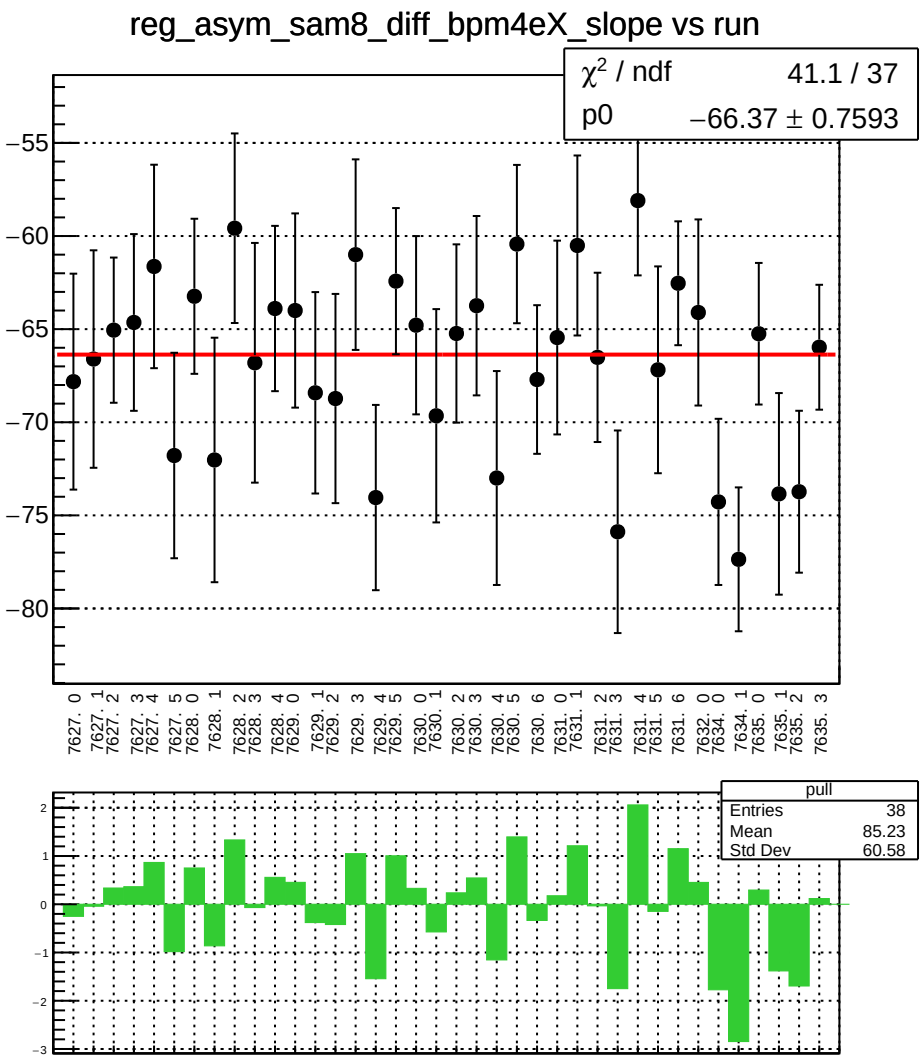

pull1D
Entries 38
Mean 0.03028
Std Dev 0.2949

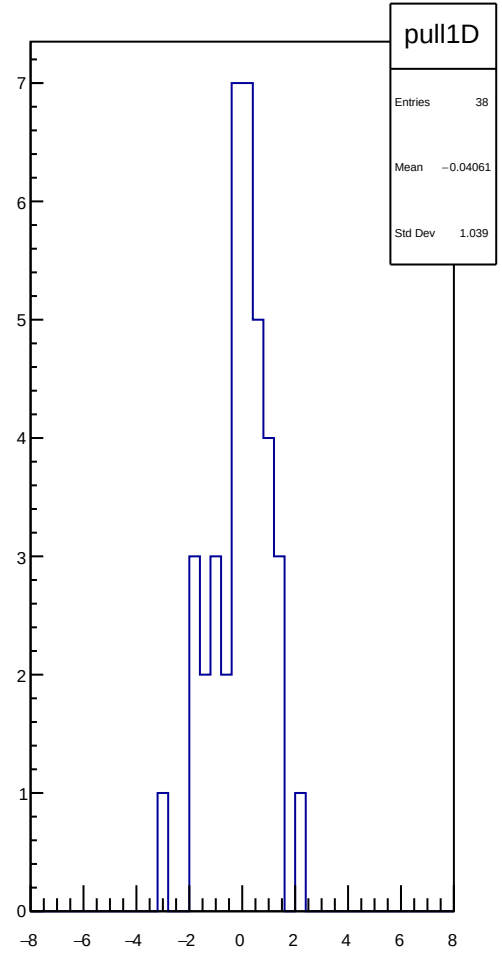

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 48.53 / 37
p0 45.98 ± 0.9474
pull
Entries 38
Mean 77.23
Std Dev 53.02

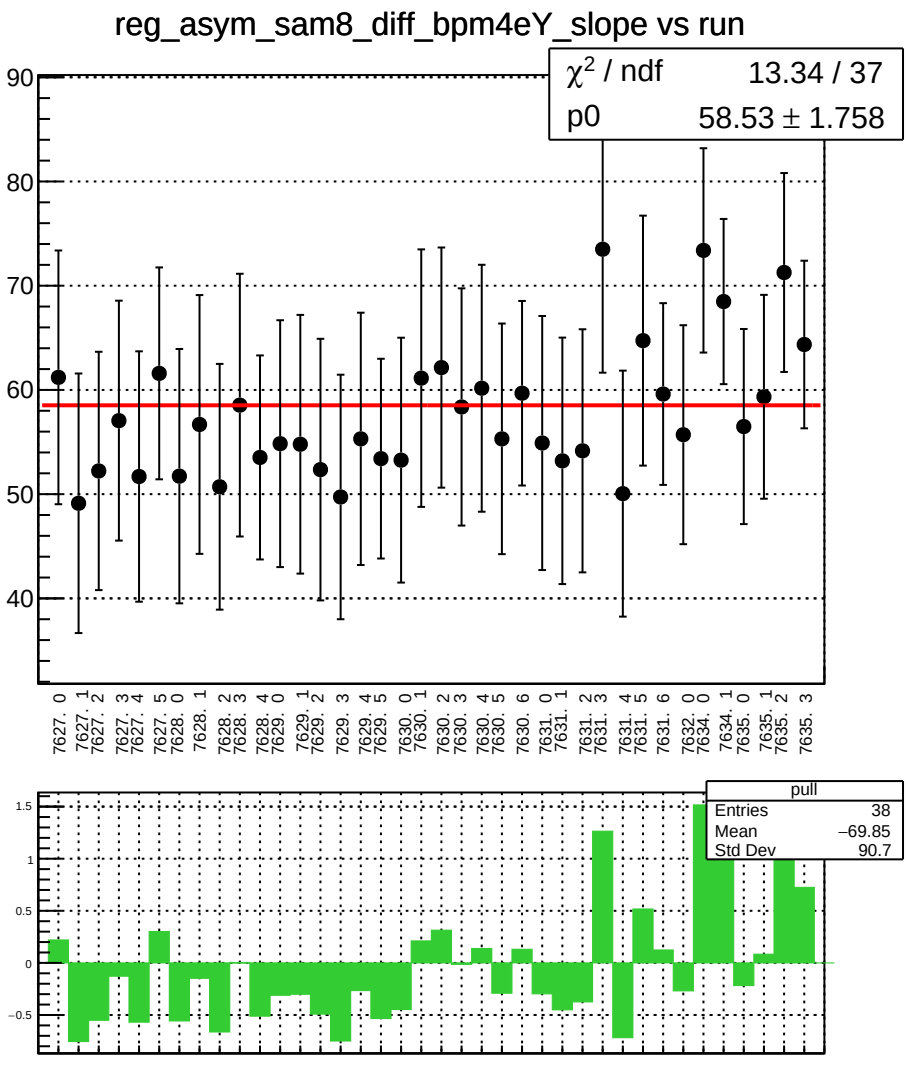

pull1D
Entries 38
Mean 0.05956
Std Dev 1.129

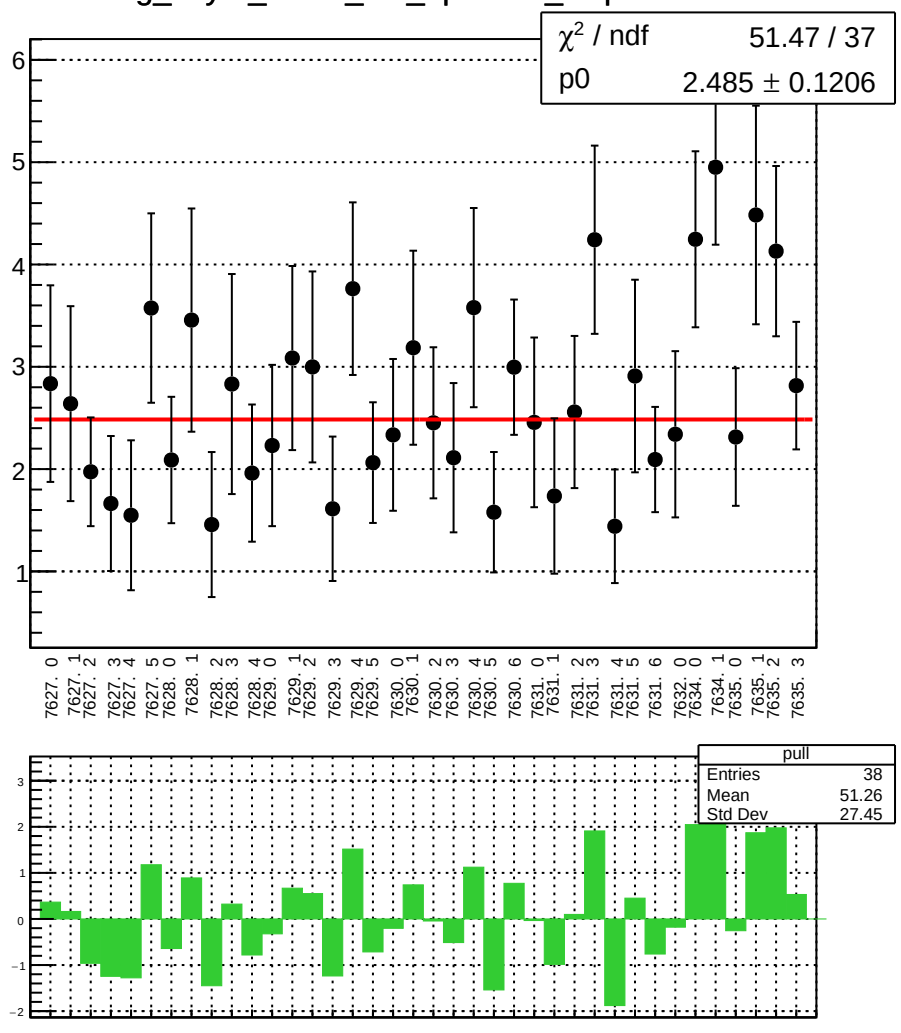

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 14.66 / 37
p0 −57.16 ± 1.198
−40
−45
−50
−55
−60
−65
−70
−75
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −63.91
Std Dev 84.77
0.5
0
−0.5
−1
−1.5

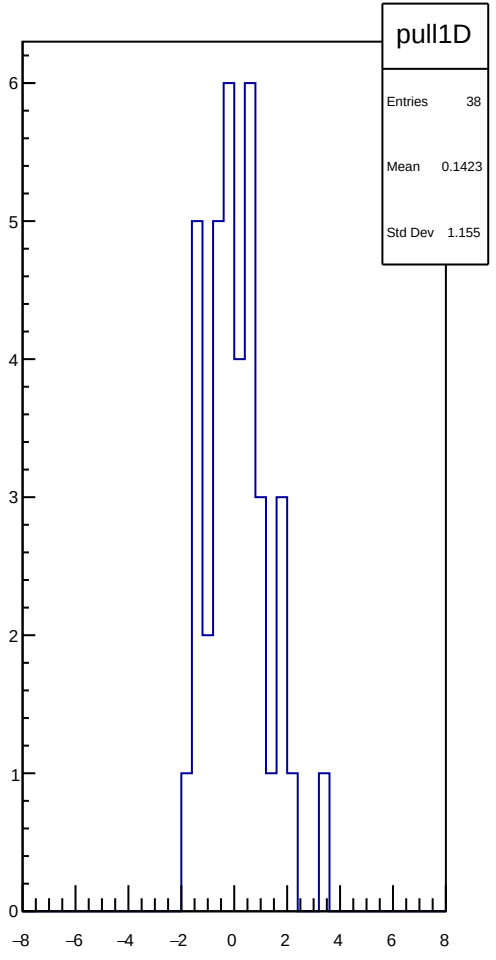

pull1D
Entries 38
Mean 0.04341
Std Dev 0.6196
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

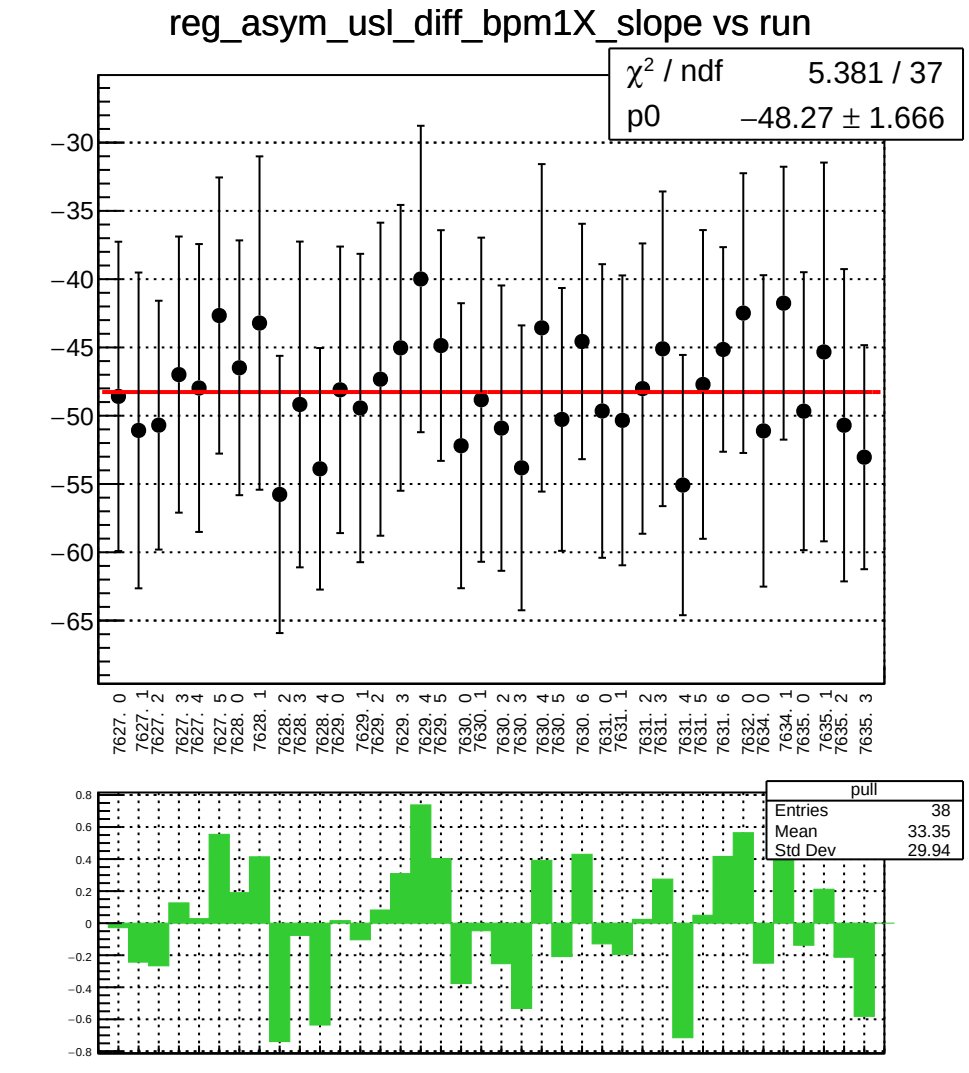

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 41.1 / 37
p0 −66.37 ± 0.7593
−55
−60
−65
−70
−75
−80
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 4
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 85.23
Std Dev 60.58
2
1
0
−1
−2
−3

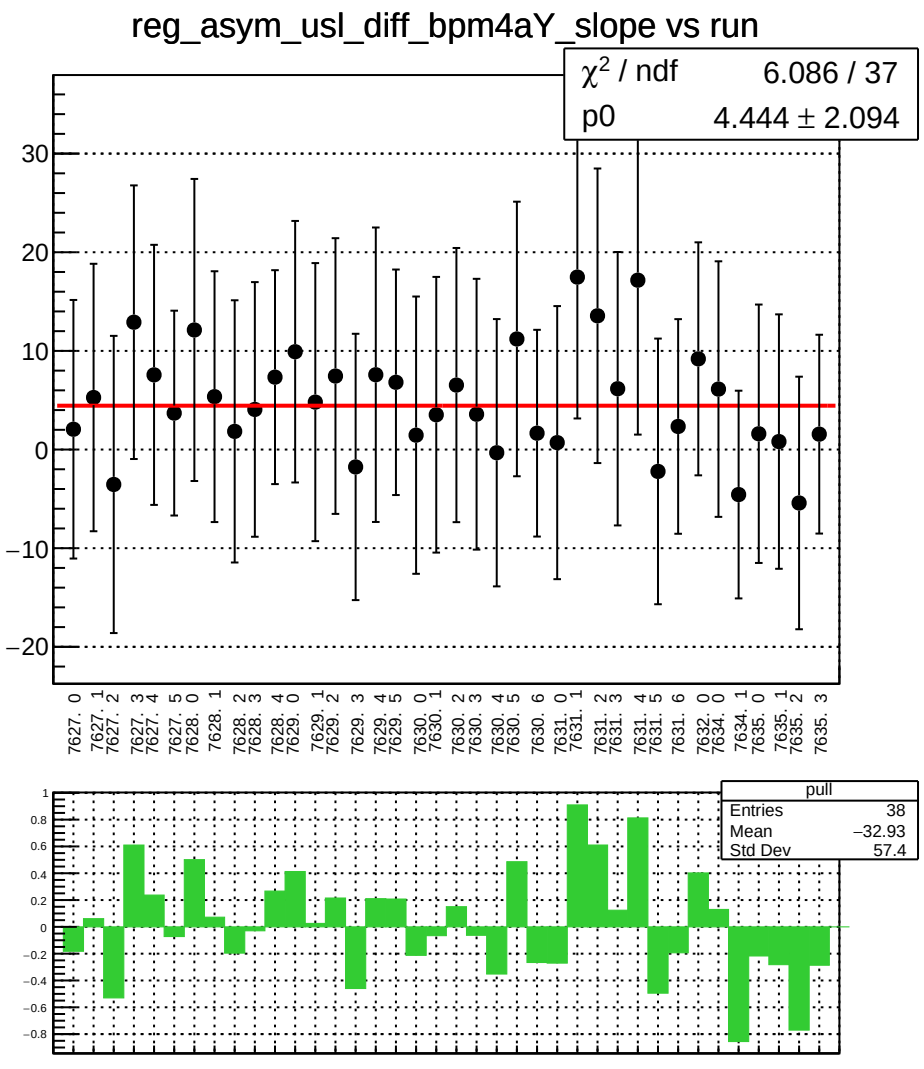

pull1D
Entries 38
Mean −0.04061
Std Dev 1.039
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

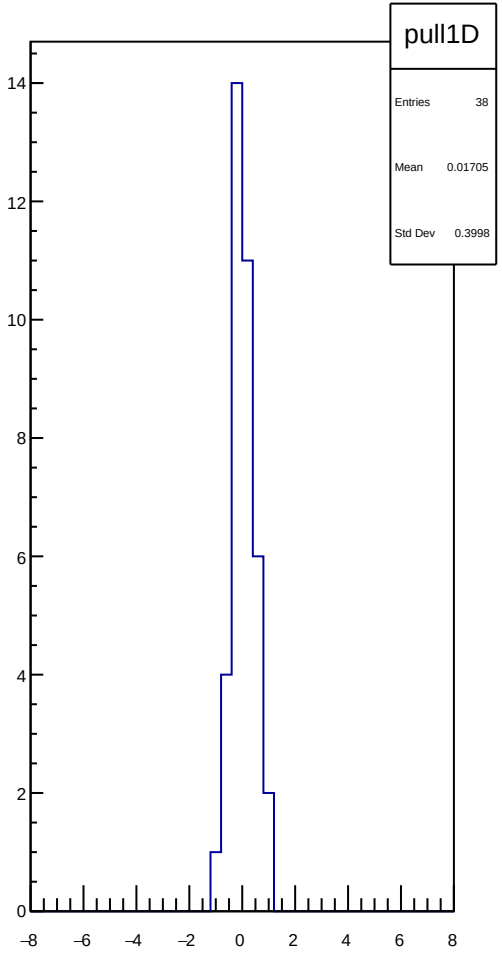

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 13.34 / 37
p0 58.53 ± 1.758
90
80
70
60
50
40
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −69.85
Std Dev 90.7
1.5
1
0.5
0
−0.5
pull1D
Entries 38
Mean −0.03884
Std Dev 0.5912
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

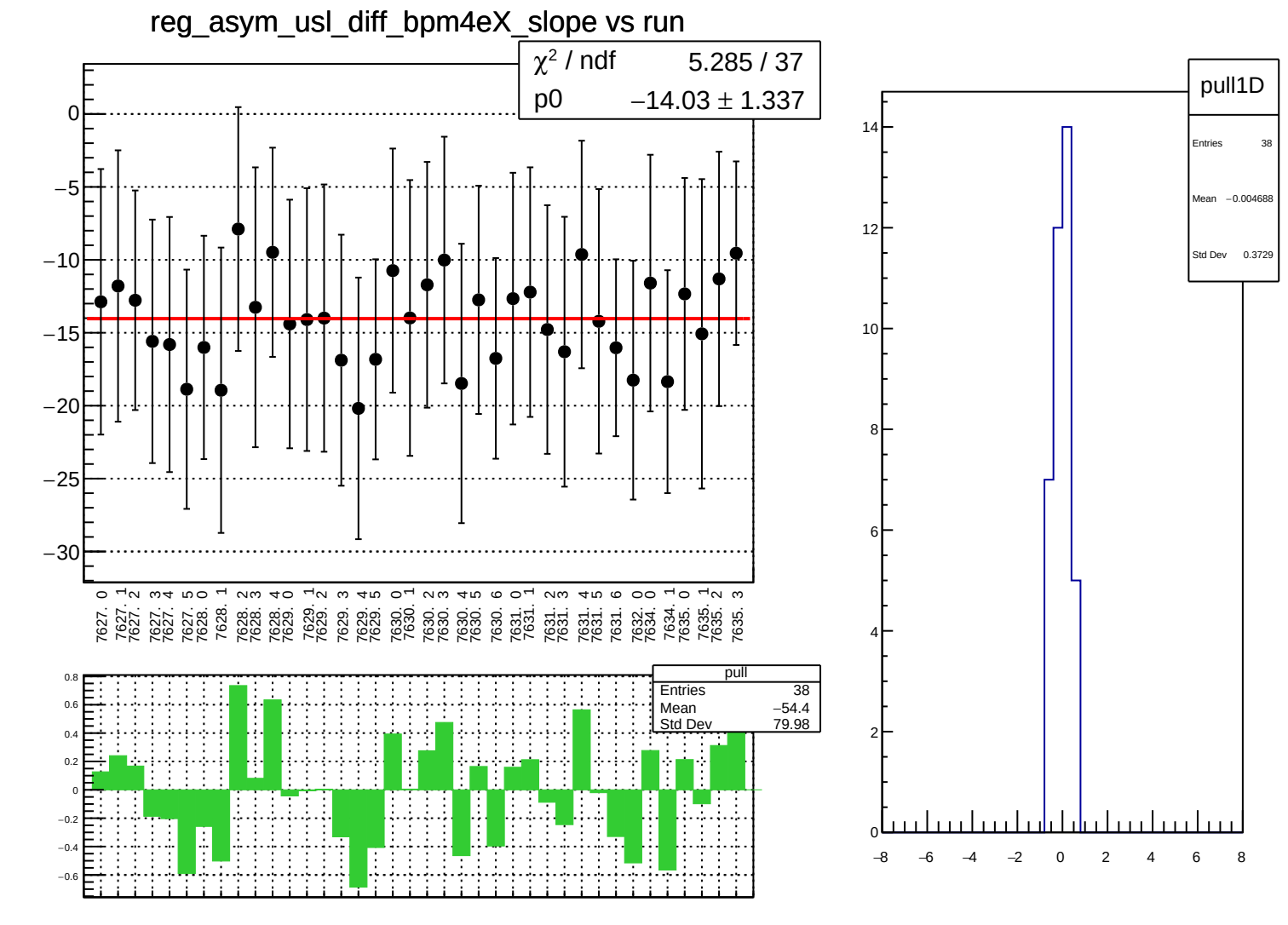

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 51.47 / 37
p0 2.485 ± 0.1206
pull
Entries 38
Mean 51.26
Std Dev 27.45

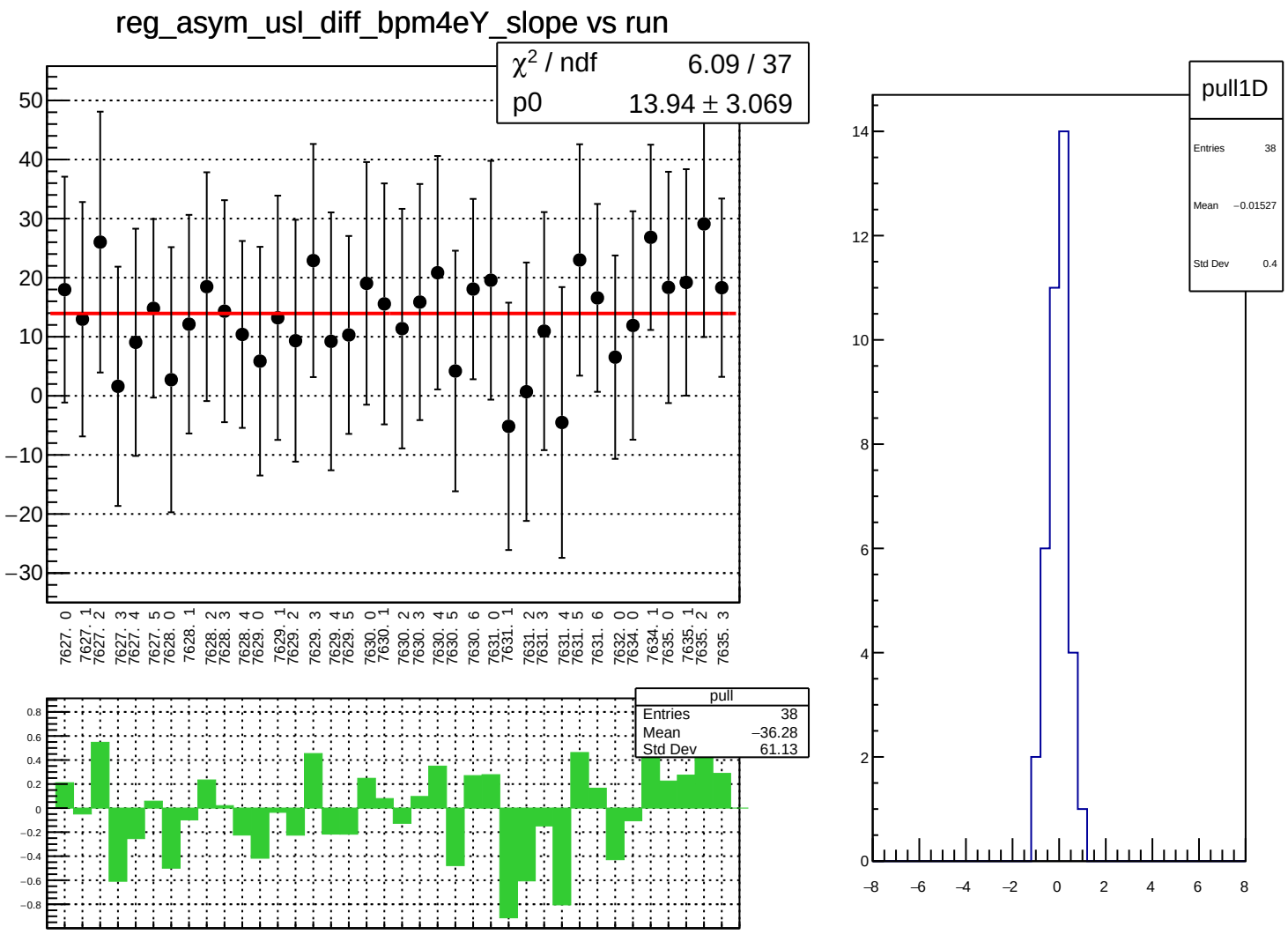

pull1D
Entries 38
Mean 0.1423
Std Dev 1.155

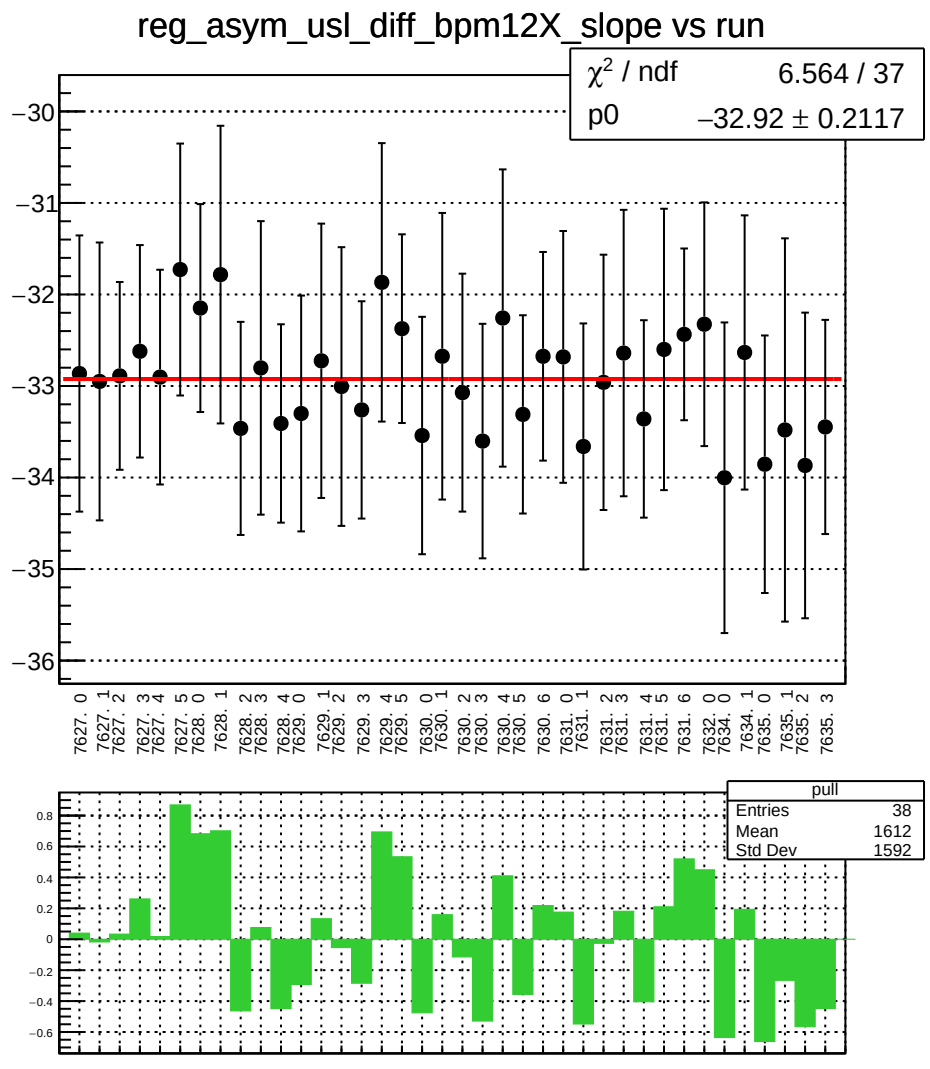

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 5.381 / 37
p0 −48.27 ± 1.666
−30
−35
−40
−45
−50
−55
−60
−65
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 33.35
Std Dev 29.94
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 38
Mean 0.003832
Std Dev 0.3763
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

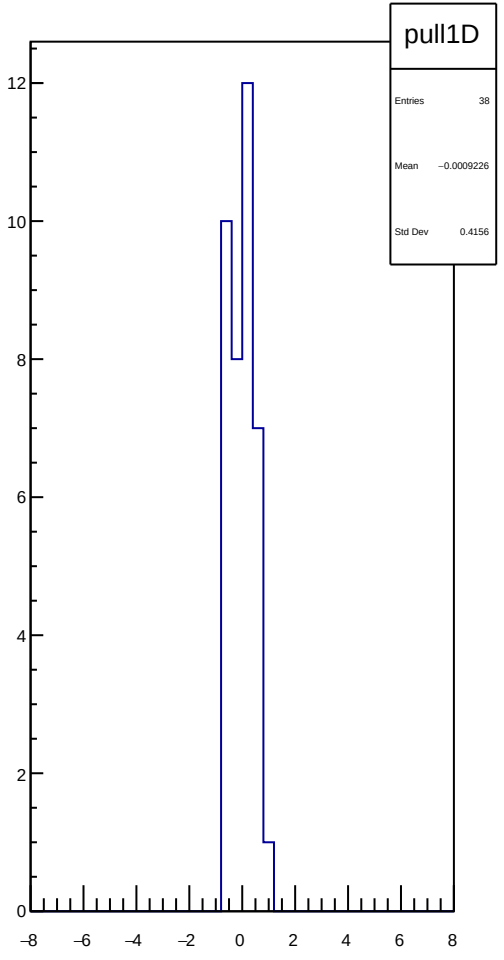

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 6.086 / 37
p0 4.444 ± 2.094
pull
Entries 38
Mean −32.93
Std Dev 57.4

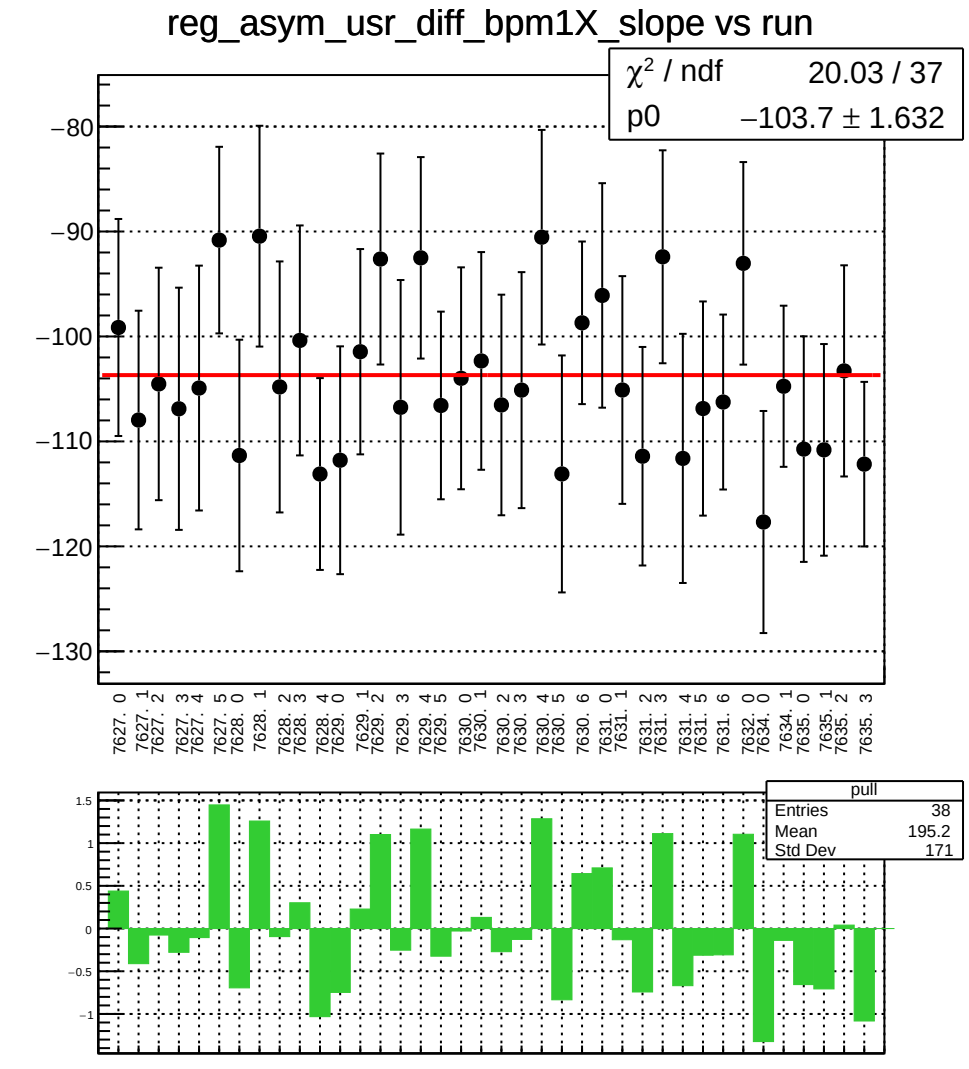

pull1D
Entries 38
Mean 0.01705
Std Dev 0.3998

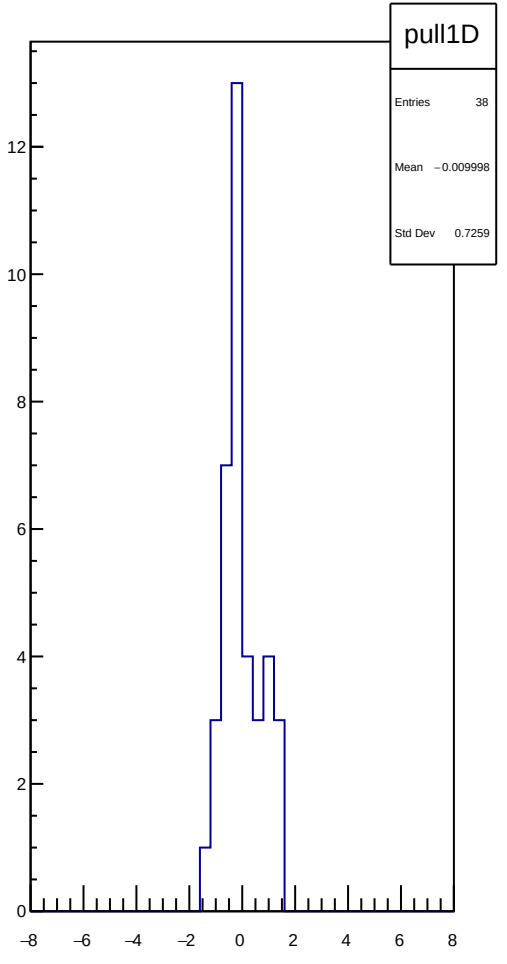

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 5.285 / 37
p0 −14.03 ± 1.337
0
−5
−10
−15
−20
−25
−30
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −54.4
Std Dev 79.98
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 38
Mean −0.004688
Std Dev 0.3729
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

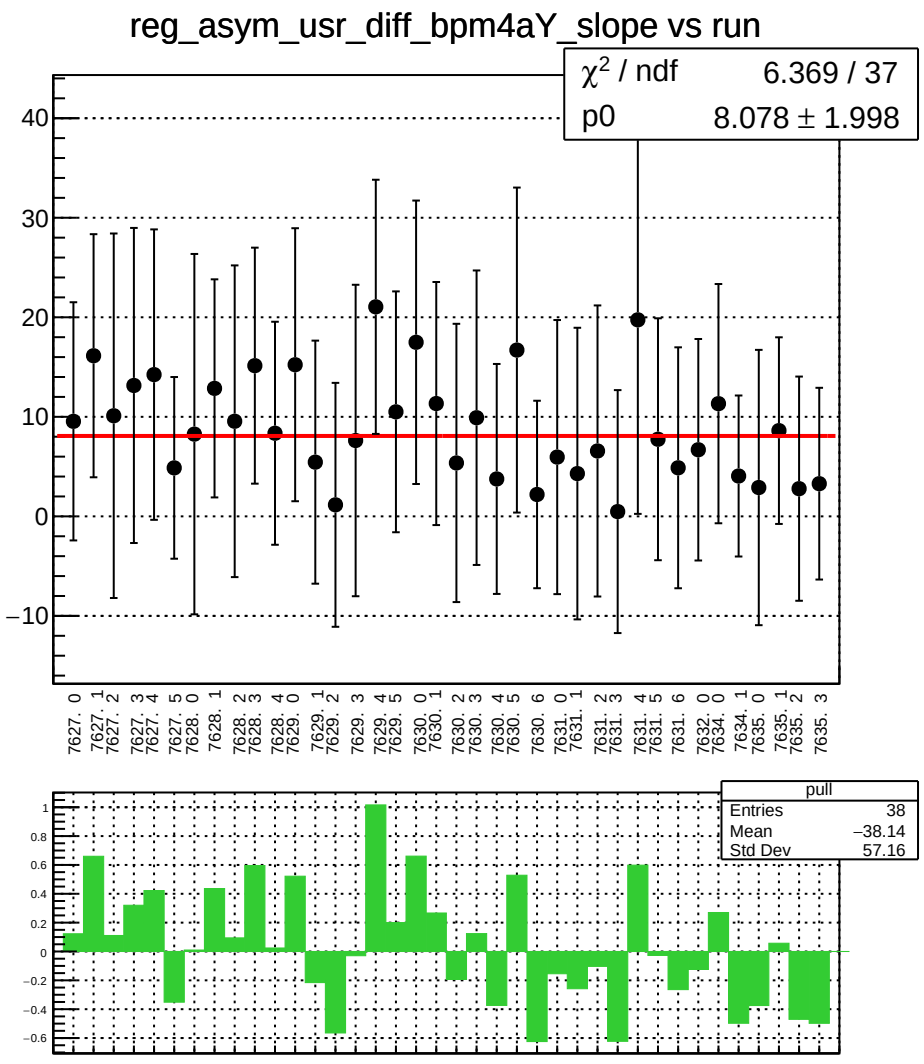

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 6.09 / 37
p0 13.94 ± 3.069
pull
Entries 38
Mean −36.28
Std Dev 61.13
pull1D
Entries 38
Mean −0.01527
Std Dev 0.4

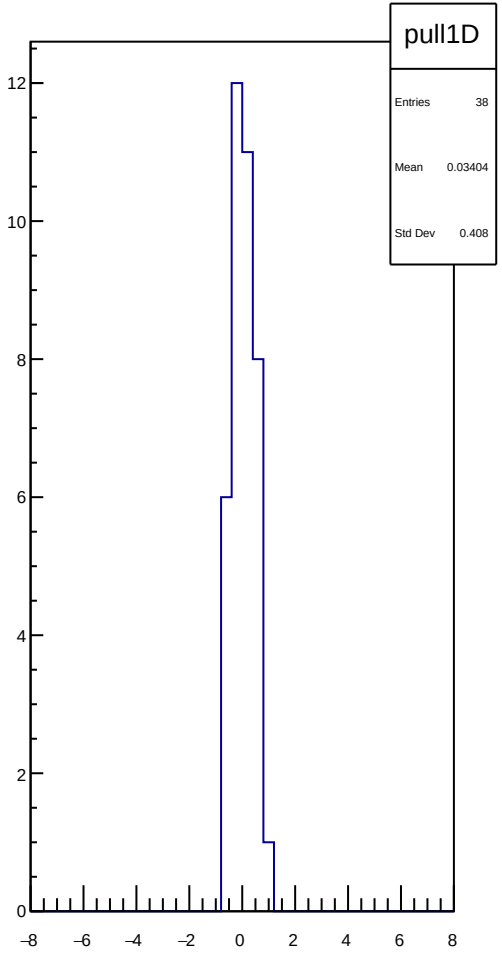

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 6.564 / 37
p0 −32.92 ± 0.2117
pull
Entries 38
Mean 1612
Std Dev 1592

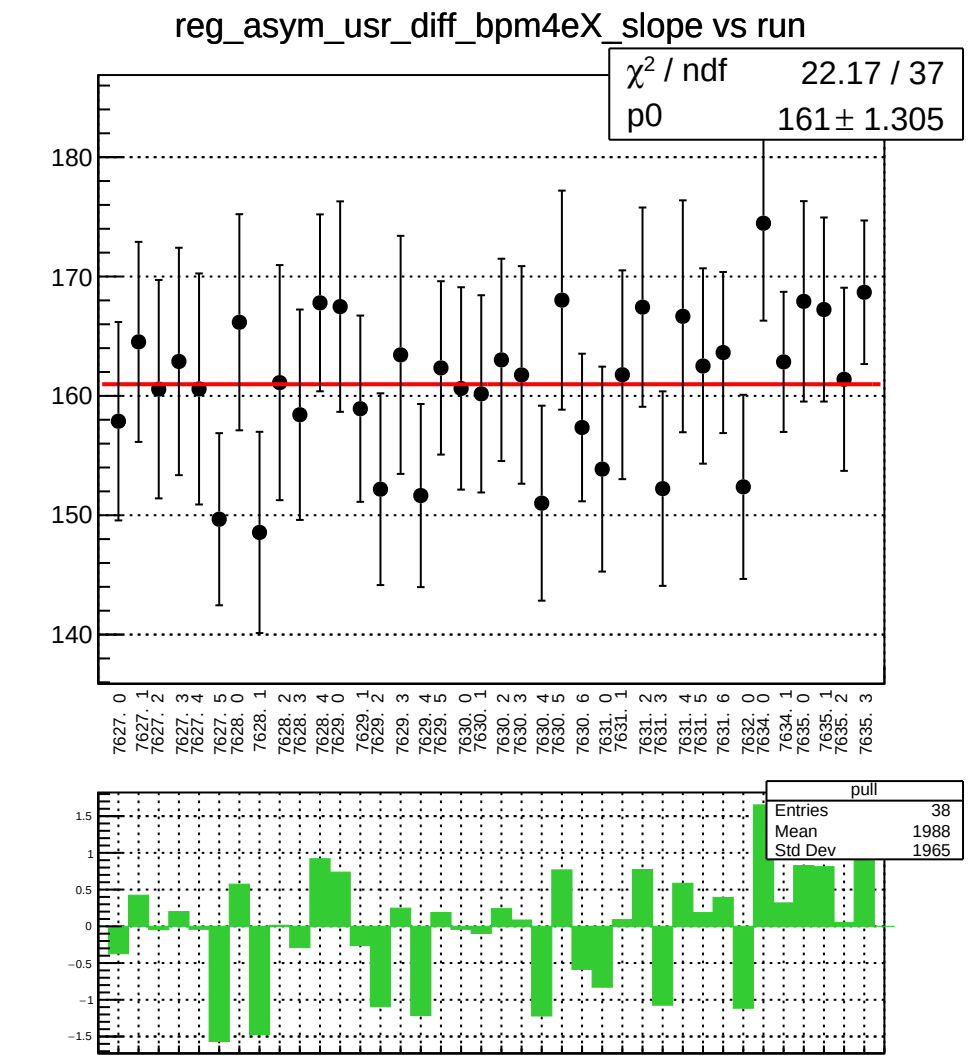

pull1D
Entries 38
Mean −0.0009226
Std Dev 0.4156

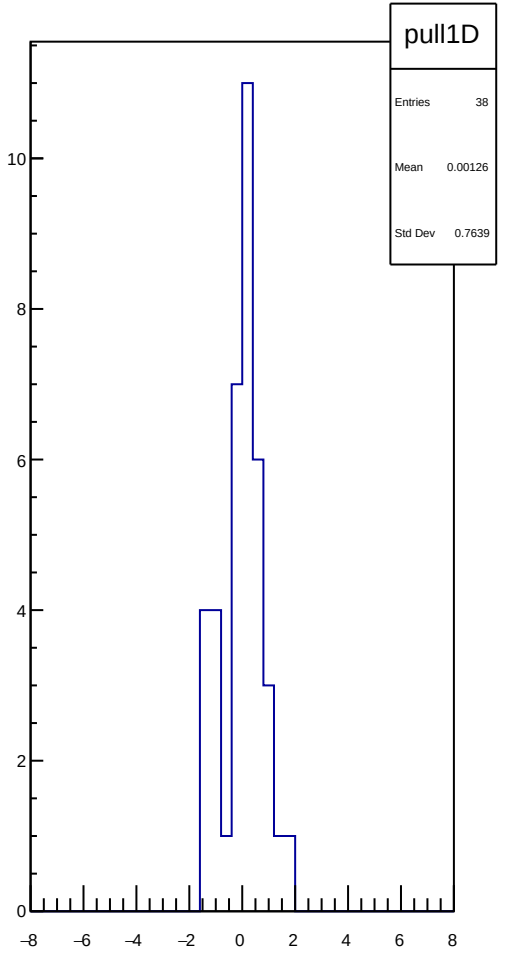

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 20.03 / 37
p0 −103.7 ± 1.632
−80
−90
−100
−110
−120
−130
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 4
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 195.2
Std Dev 171
1.5
1
0.5
0
−0.5
−1

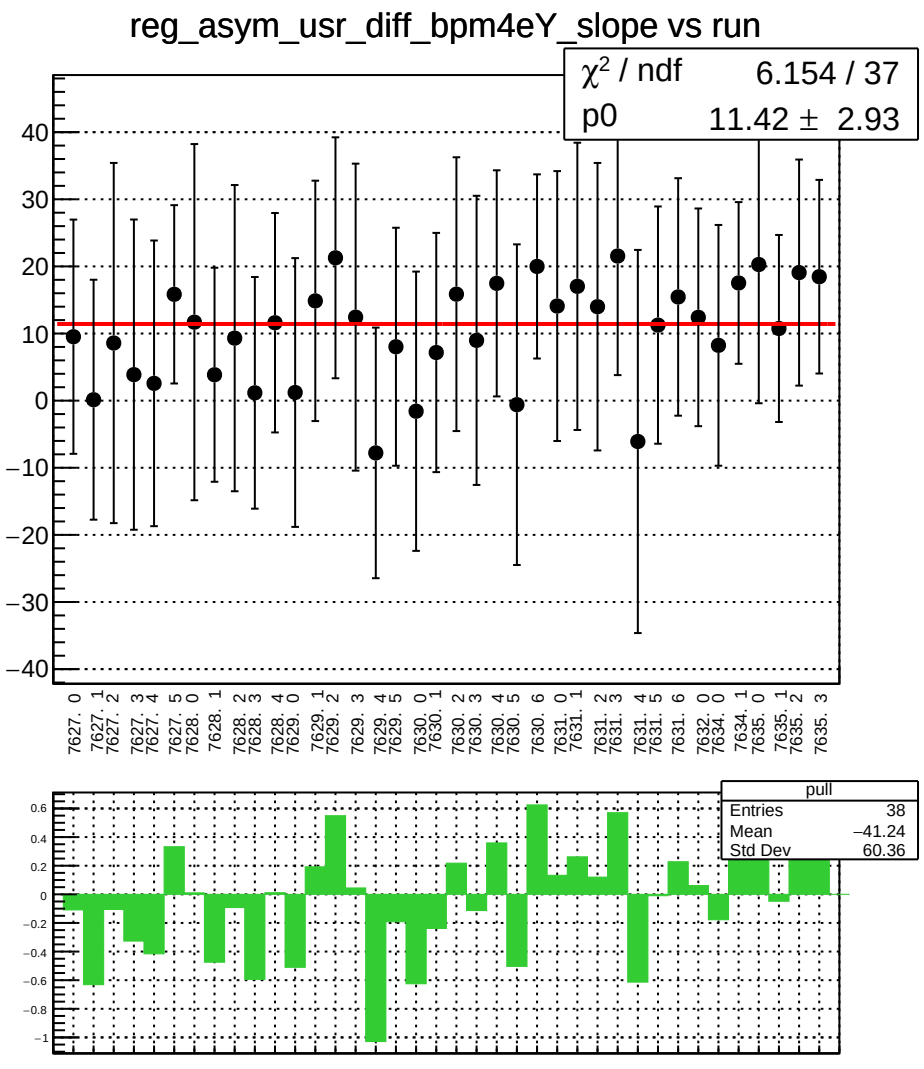

pull1D
Entries 38
Mean −0.009998
Std Dev 0.7259
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

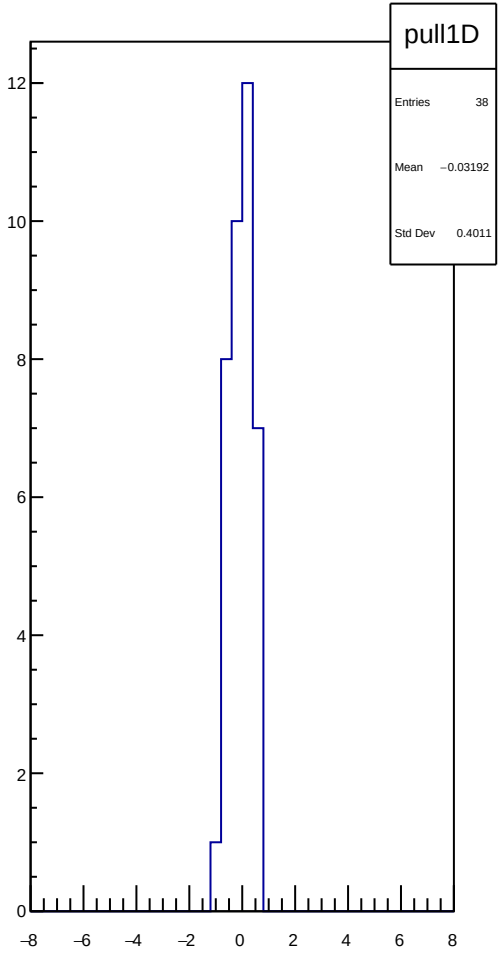

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 6.369 / 37
p0 8.078 ± 1.998
pull
Entries 38
Mean −38.14
Std Dev 57.16

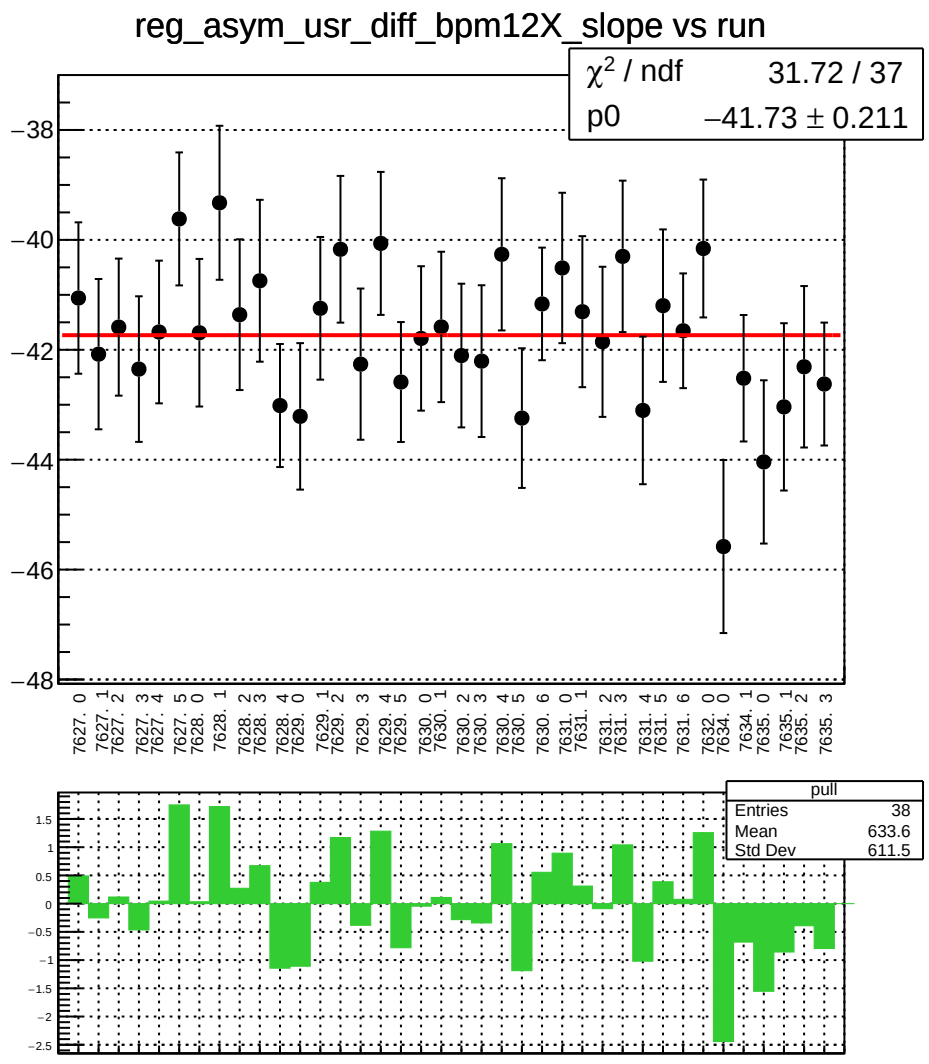

pull1D
Entries 38
Mean 0.03404
Std Dev 0.408

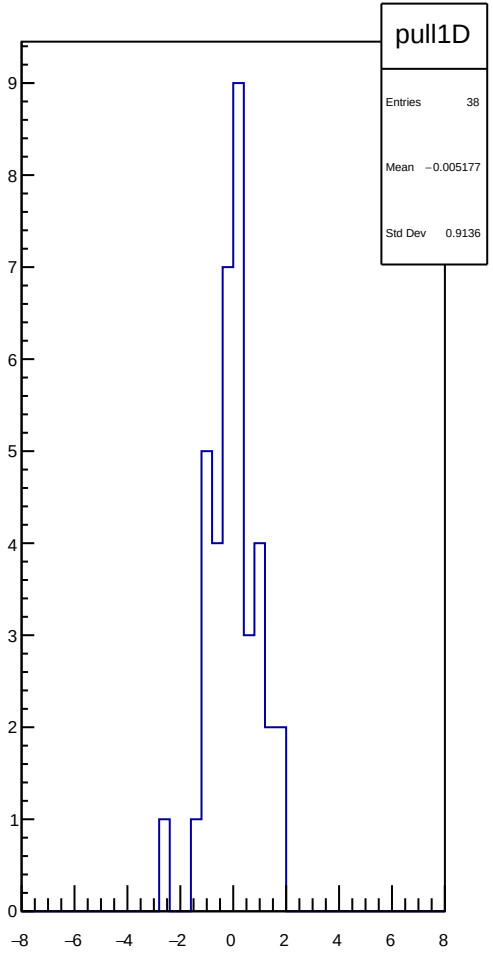

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 22.17 / 37
p0 161 ± 1.305
180
170
160
150
140
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 1988
Std Dev 1965
1.5
1
0.5
0
−0.5
−1
−1.5

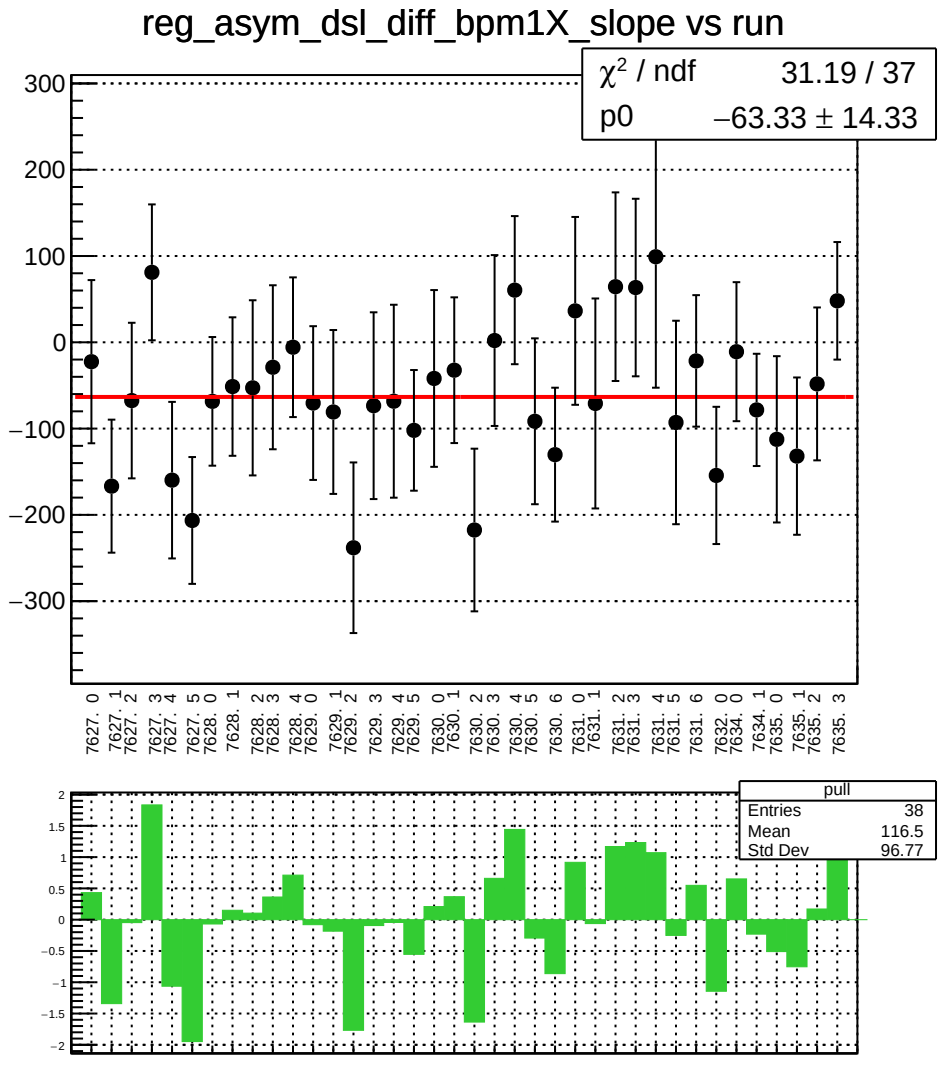

pull1D
Entries 38
Mean 0.00126
Std Dev 0.7639
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

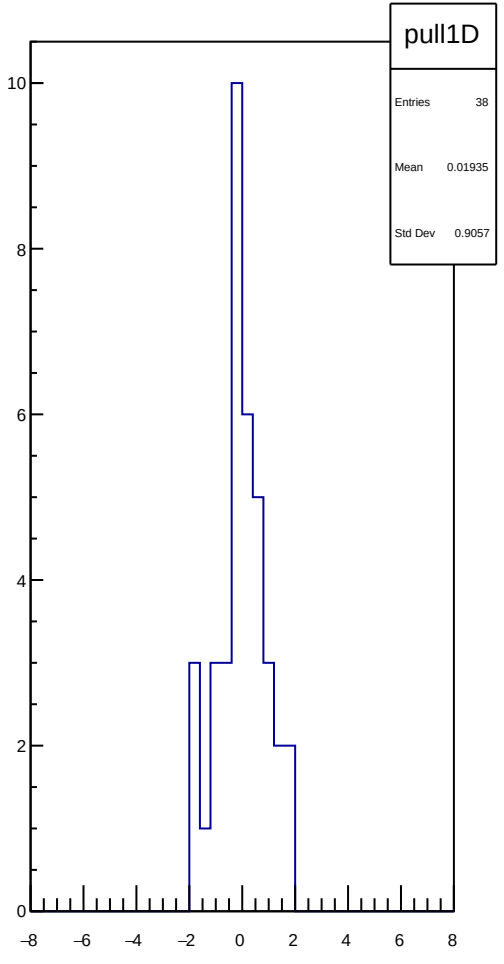

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 6.154 / 37
p0 11.42 ± 2.93
pull
Entries 38
Mean −41.24
Std Dev 60.36

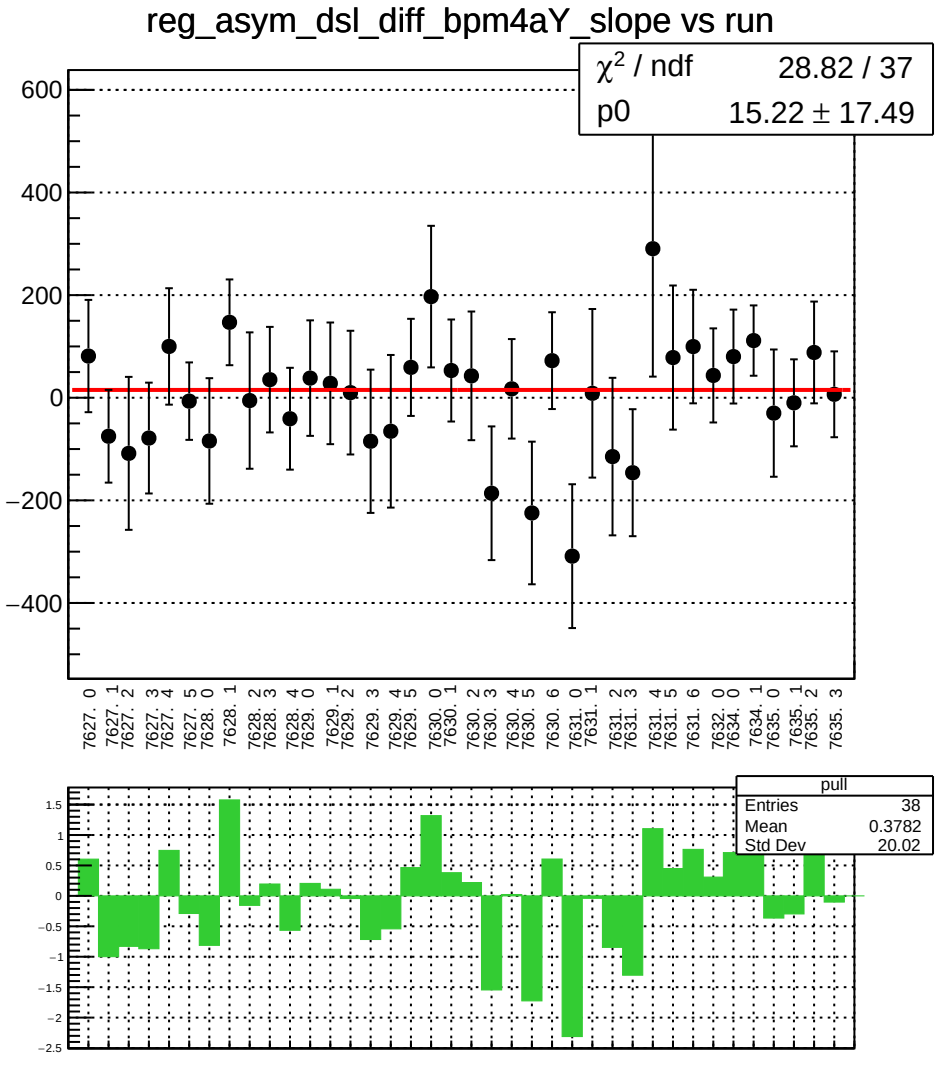

pull1D
Entries 38
Mean −0.03192
Std Dev 0.4011

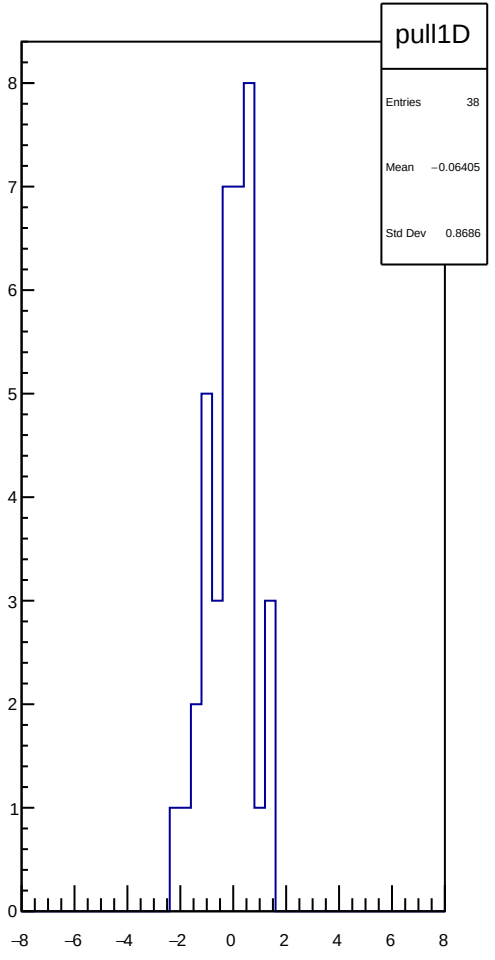

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 31.72 / 37
p0 −41.73 ± 0.211
pull
Entries 38
Mean 633.6
Std Dev 611.5

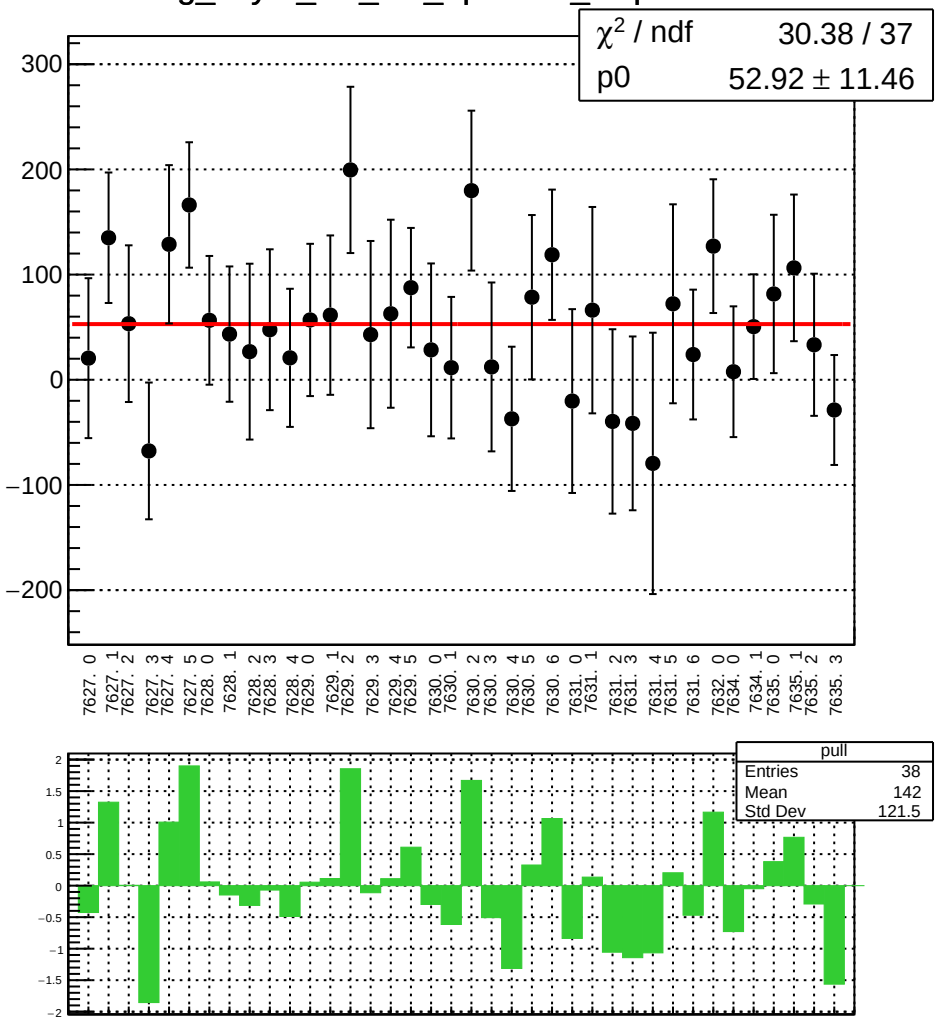

pull1D
Entries 38
Mean −0.005177
Std Dev 0.9136

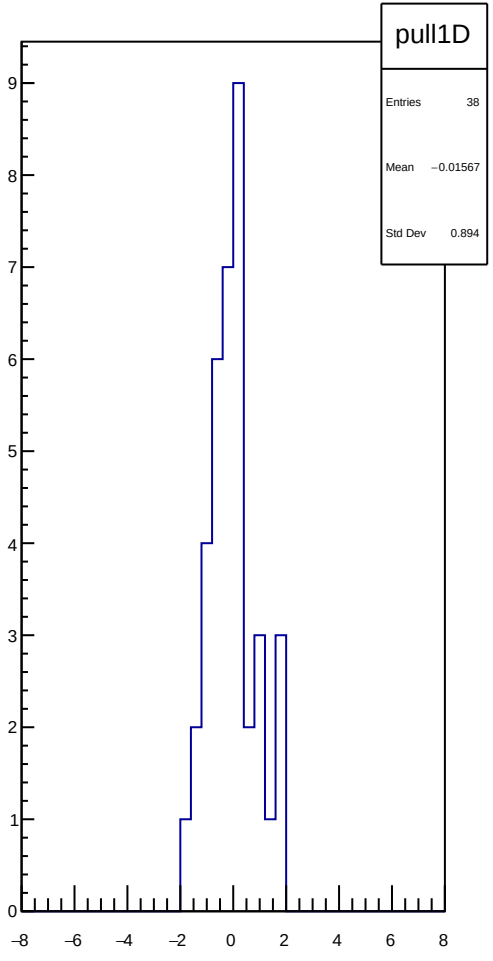

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 31.19 / 37
p0 −63.33 ± 14.33
pull
Entries 38
Mean 116.5
Std Dev 96.77

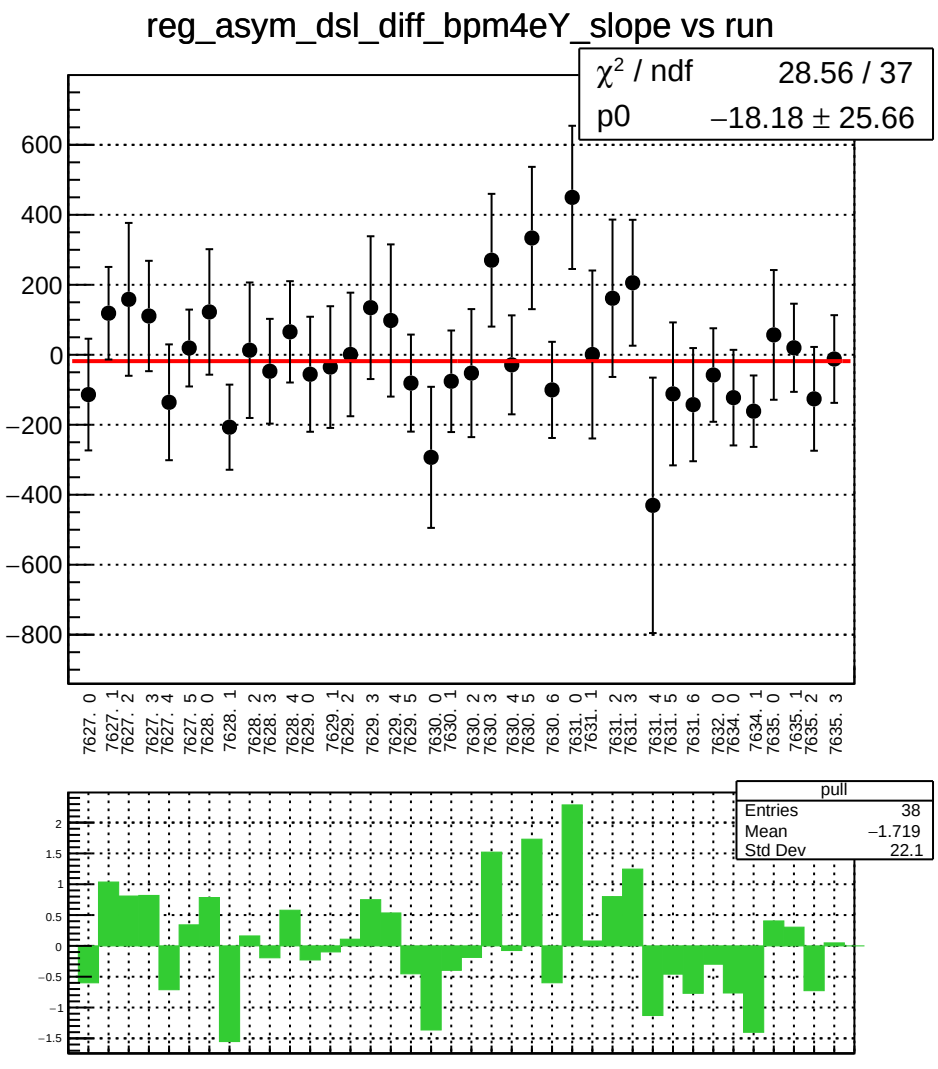

pull1D
Entries 38
Mean 0.01935
Std Dev 0.9057

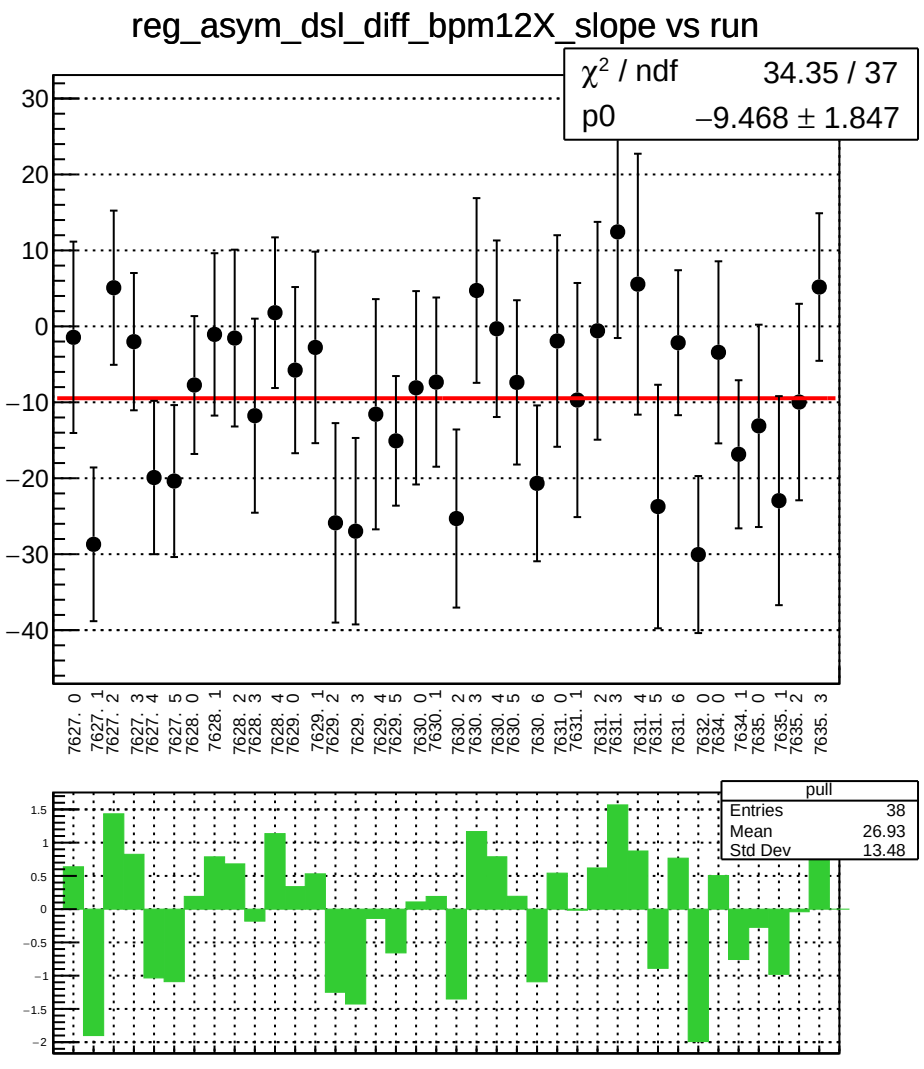

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 28.82 / 37
p0 15.22 ± 17.49
600
400
200
0
−200
−400
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 0.3782
Std Dev 20.02
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

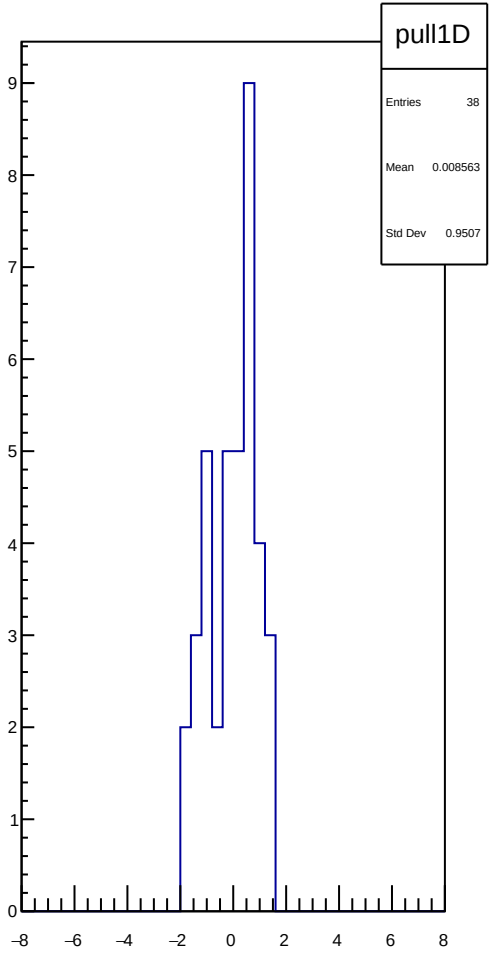

pull1D
Entries 38
Mean −0.06405
Std Dev 0.8686
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

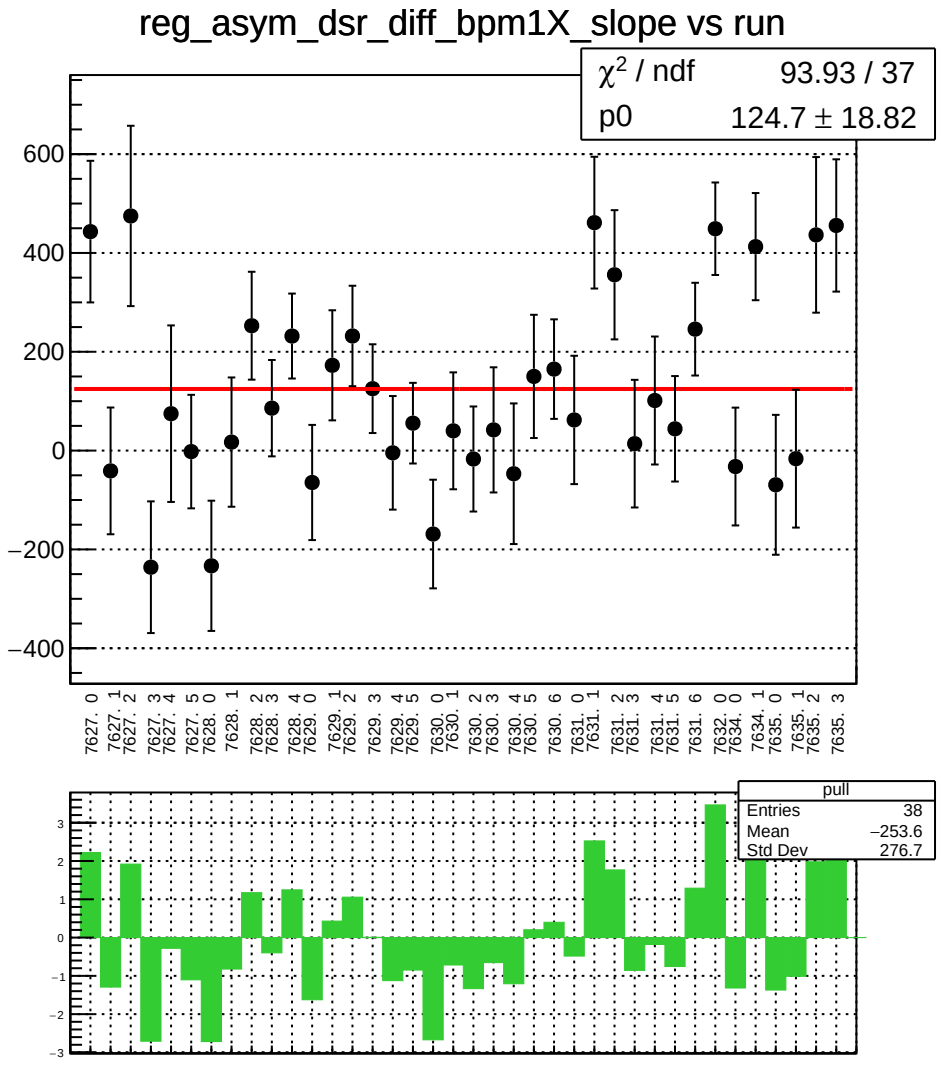

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 30.38 / 37
p0 52.92 ± 11.46
pull
Entries 38
Mean 142
Std Dev 121.5

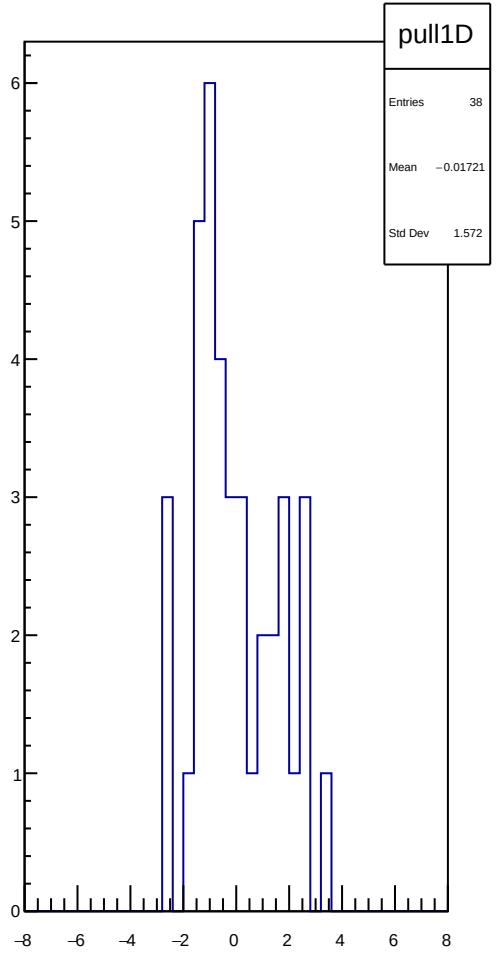

pull1D
Entries 38
Mean −0.01567
Std Dev 0.894

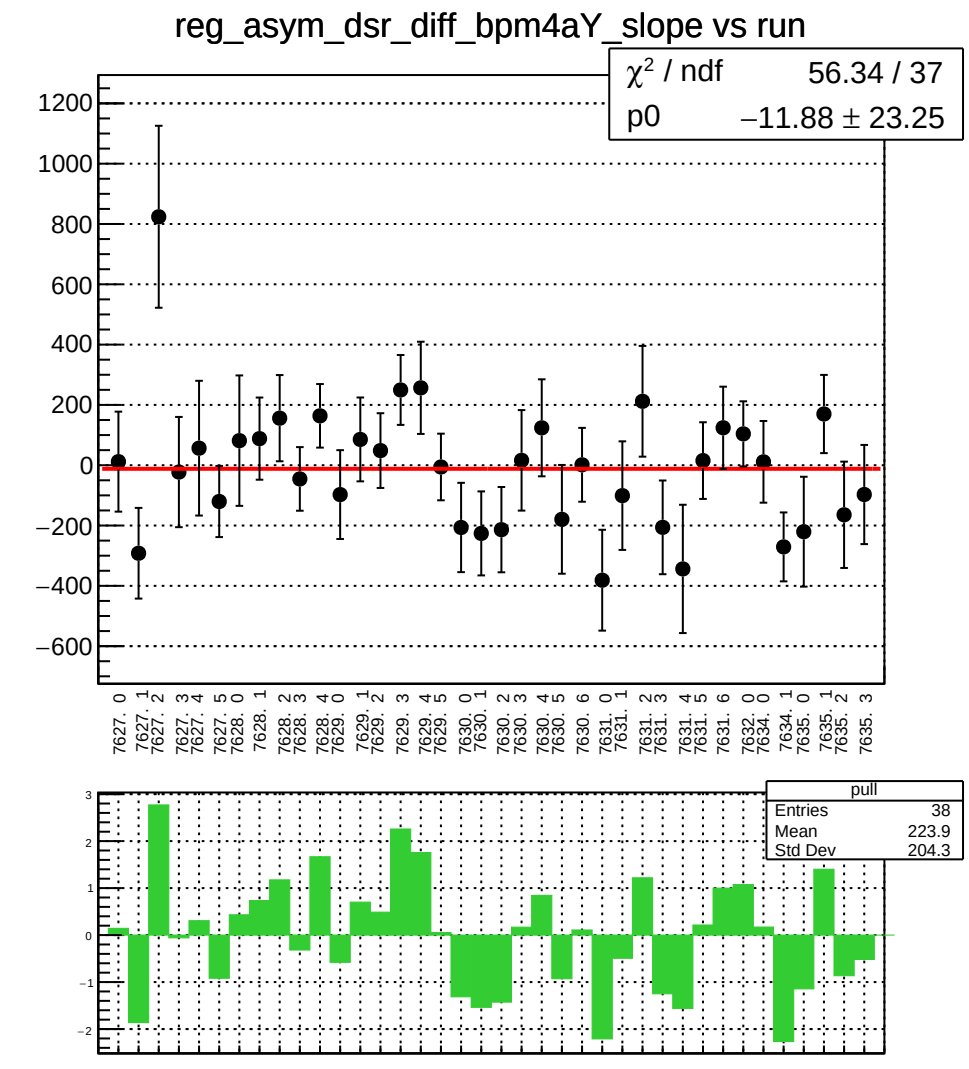

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 28.56 / 37
p0 −18.18 ± 25.66
600
400
200
0
−200
−400
−600
−800
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −1.719
Std Dev 22.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 38
Mean 0.06152
Std Dev 0.8648
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

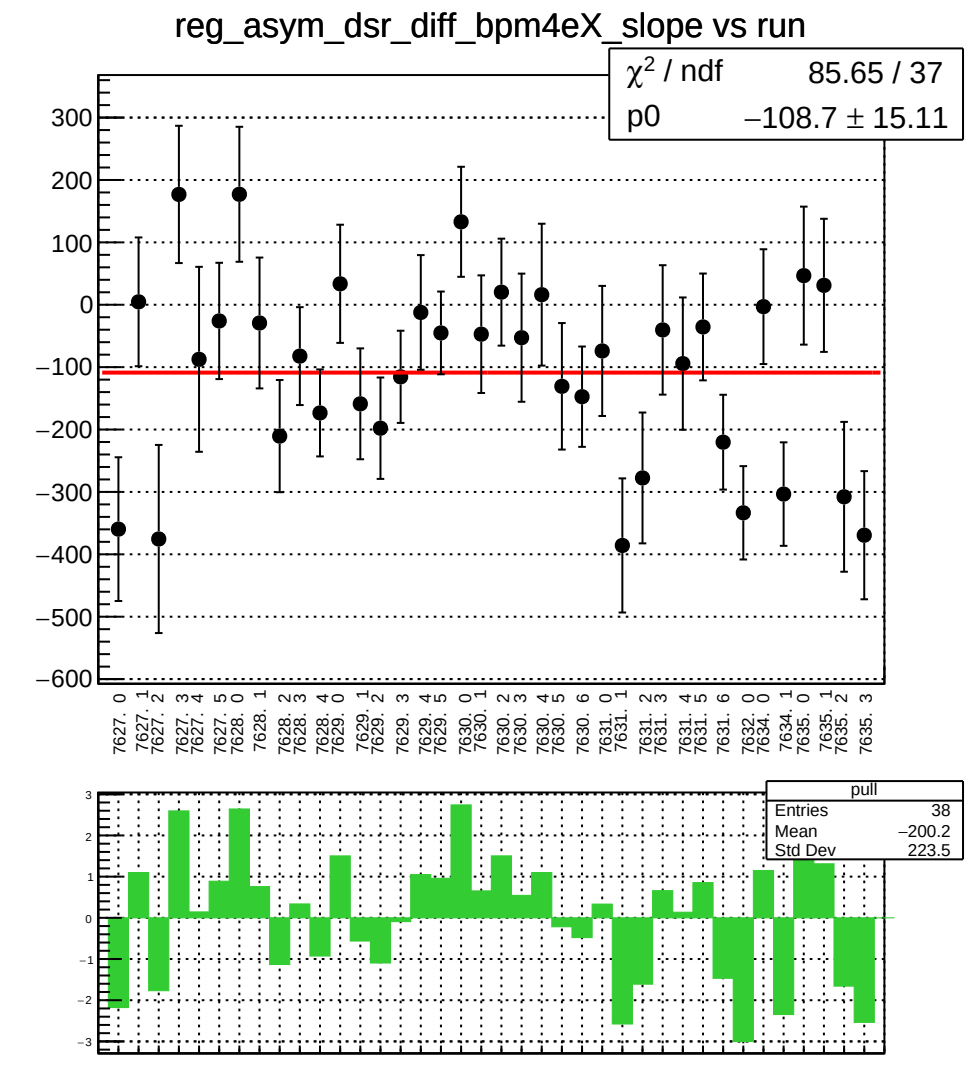

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 34.35 / 37
p0 −9.468 ± 1.847
pull
Entries 38
Mean 26.93
Std Dev 13.48

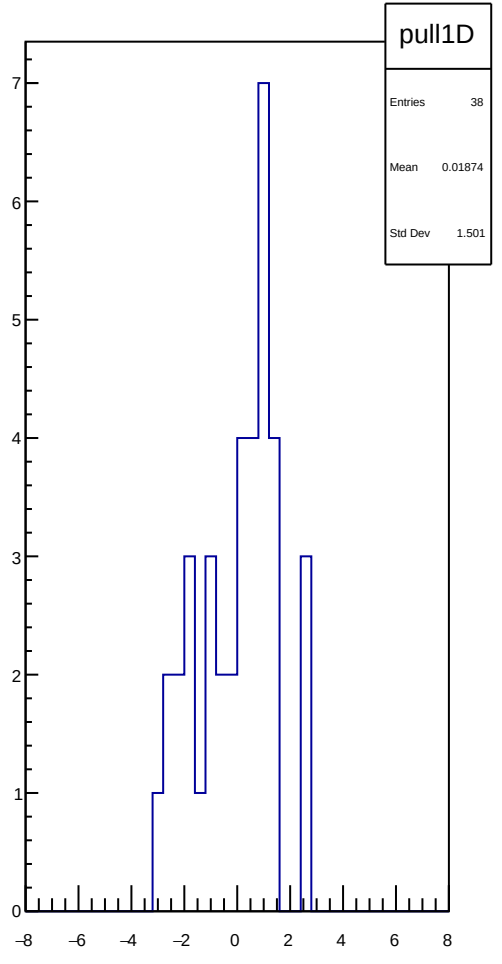

pull1D
Entries 38
Mean 0.008563
Std Dev 0.9507

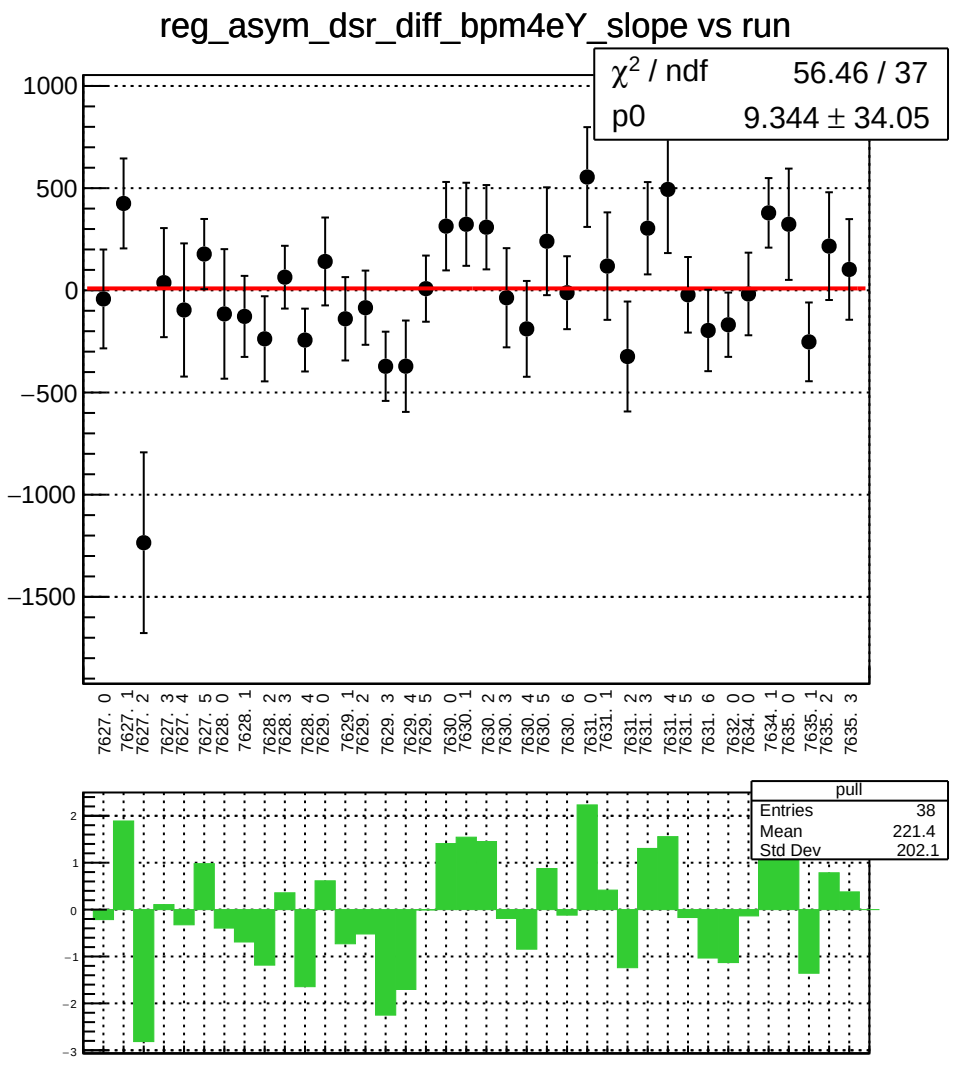

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 93.93 / 37
p0 124.7 ± 18.82
600
400
200
0
−200
−400
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 4
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −253.6
Std Dev 276.7
3
2
1
0
−1
−2
−3

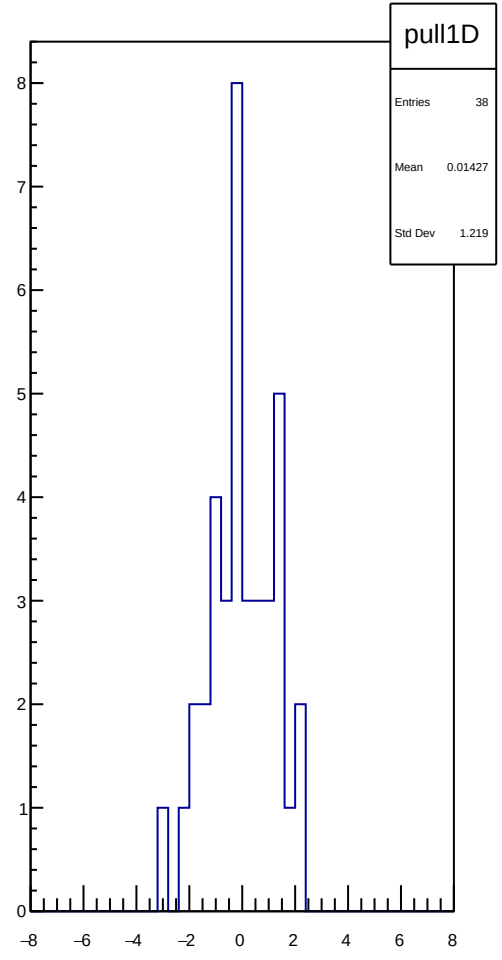

pull1D
Entries 38
Mean −0.01721
Std Dev 1.572
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

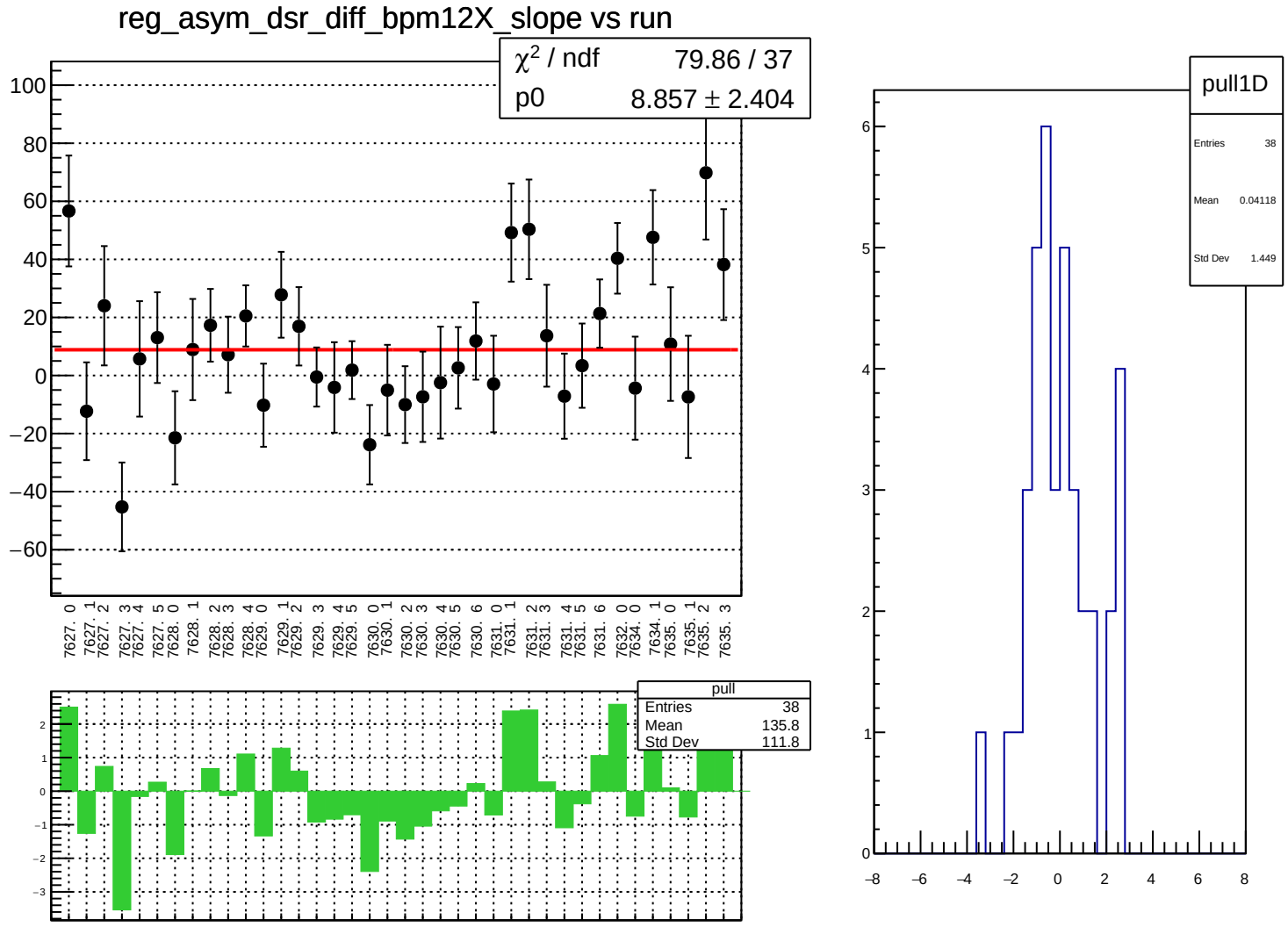

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 56.34 / 37
p0 −11.88 ± 23.25
1200
1000
800
600
400
200
0
−200
−400
−600
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 223.9
Std Dev 204.3
3
2
1
0
−1
−2
pull1D
Entries 38
Mean −0.01494
Std Dev 1.218
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

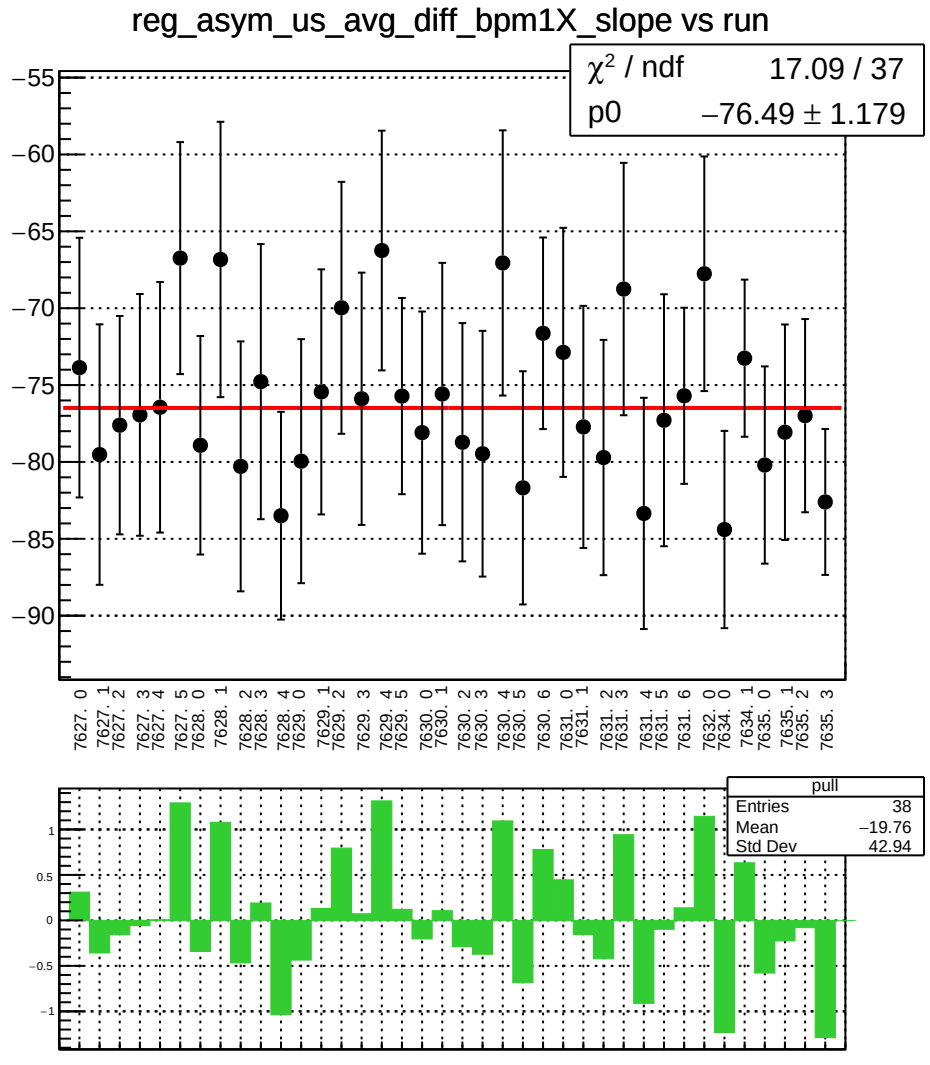

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 85.65 / 37
p0 −108.7 ± 15.11
pull
Entries 38
Mean −200.2
Std Dev 223.5

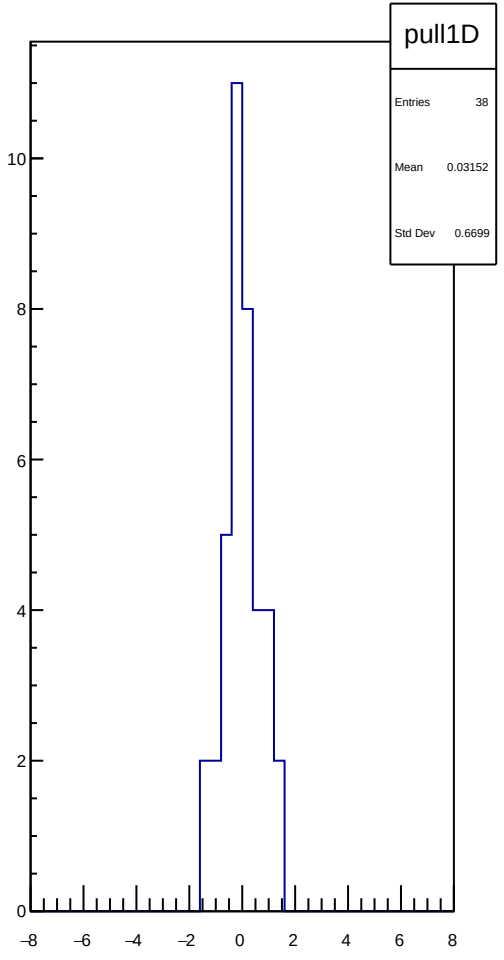

pull1D
Entries 38
Mean 0.01874
Std Dev 1.501

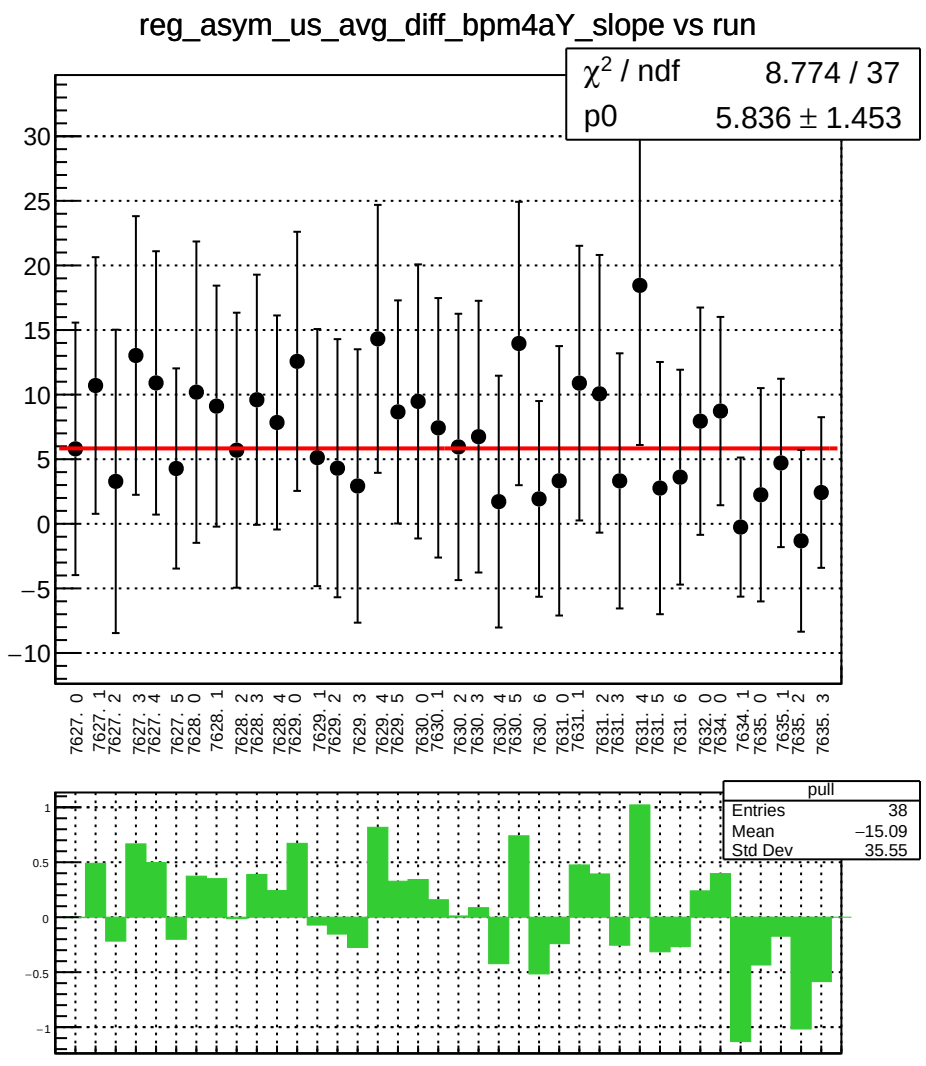

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 56.46 / 37
p0 9.344 ± 34.05
1000
500
0
−500
−1000
−1500
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 221.4
Std Dev 202.1
2
1
0
−1
−2
−3

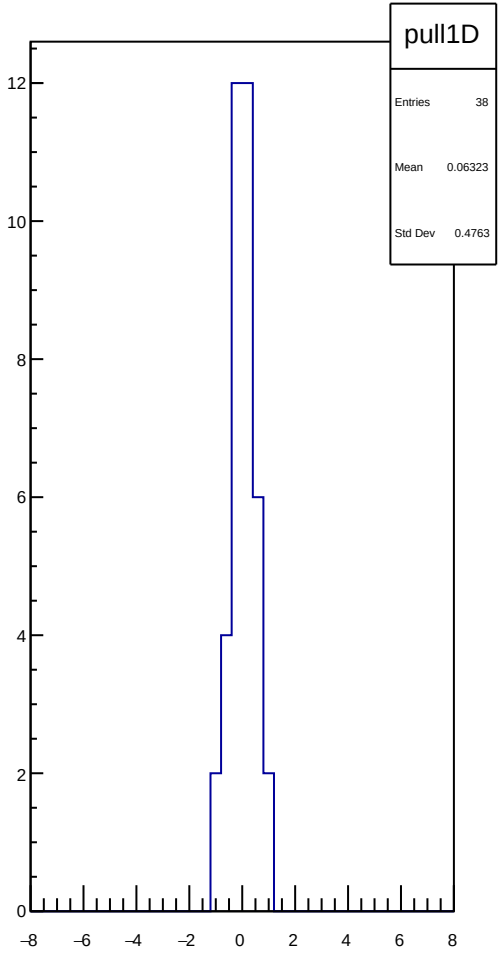

pull1D
Entries 38
Mean 0.01427
Std Dev 1.219
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

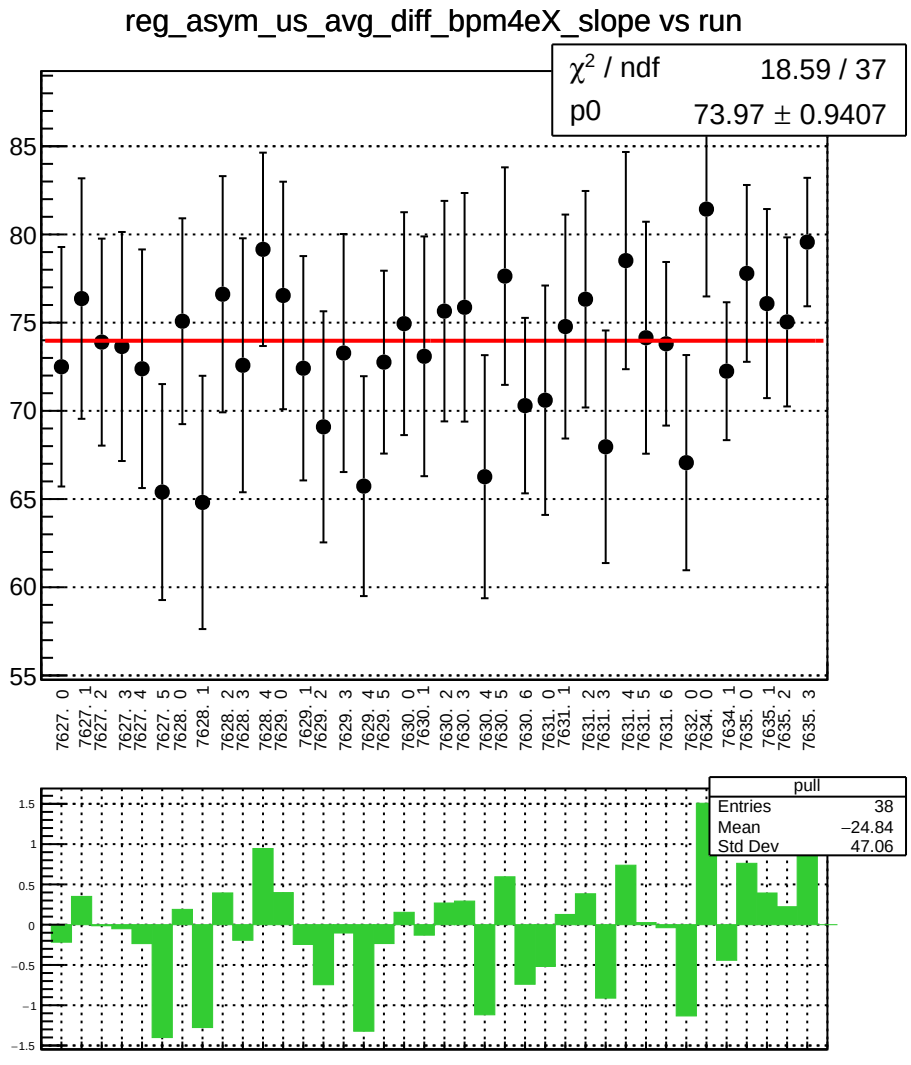

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 79.86 / 37
p0 8.857 ± 2.404
pull
Entries 38
Mean 135.8
Std Dev 111.8
pull1D
Entries 38
Mean 0.04118
Std Dev 1.449

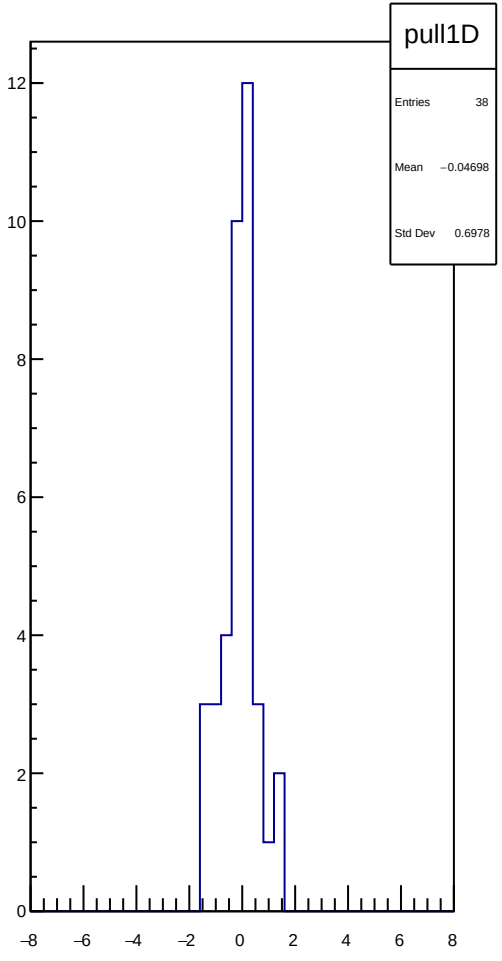

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 17.09 / 37
p0 −76.49 ± 1.179
pull
Entries 38
Mean −19.76
Std Dev 42.94

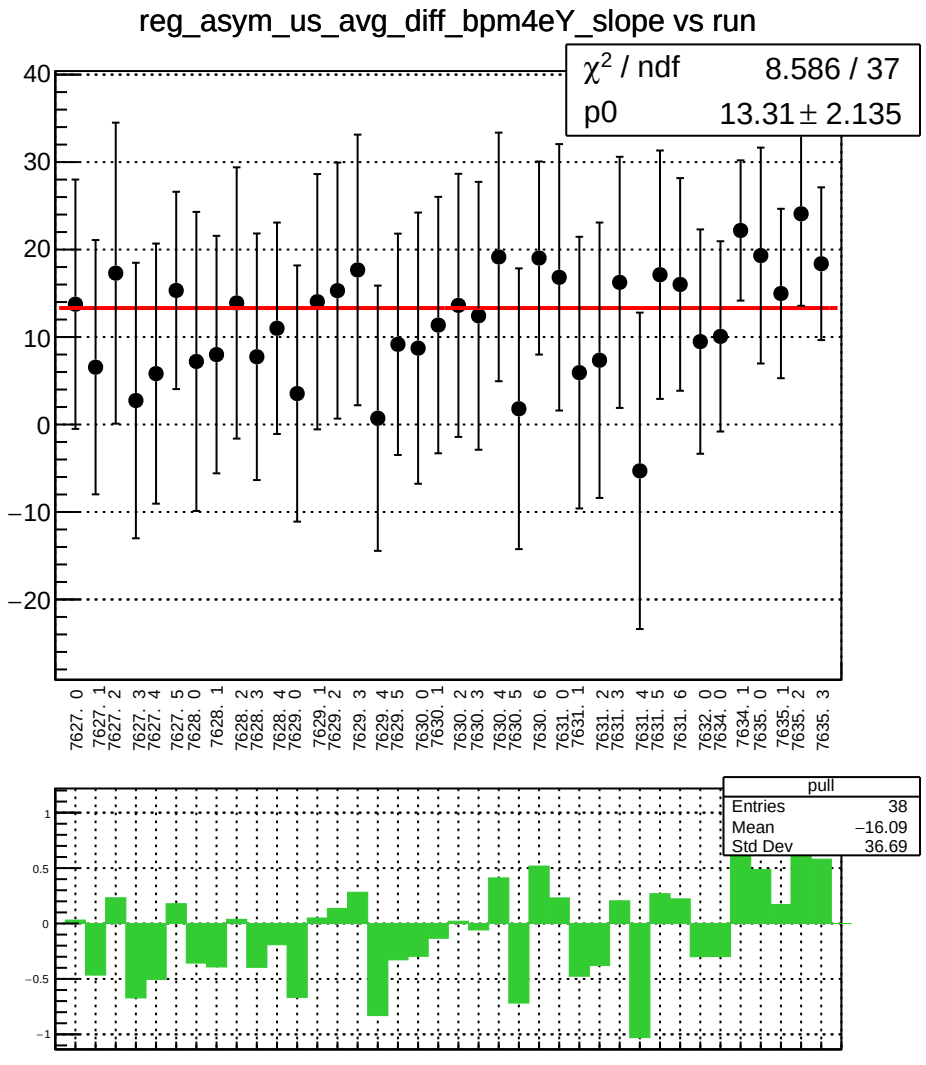

pull1D
Entries 38
Mean 0.03152
Std Dev 0.6699

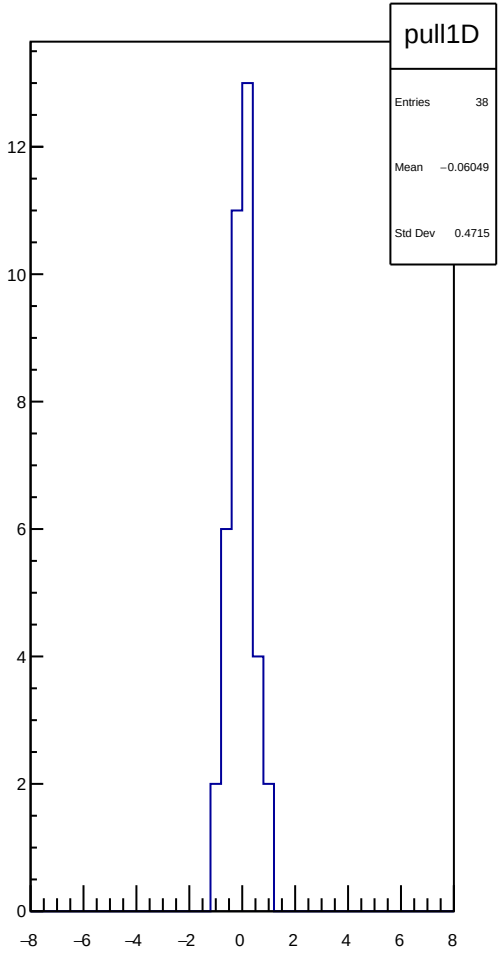

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.774 / 37
p0 5.836 ± 1.453
pull
Entries 38
Mean −15.09
Std Dev 35.55

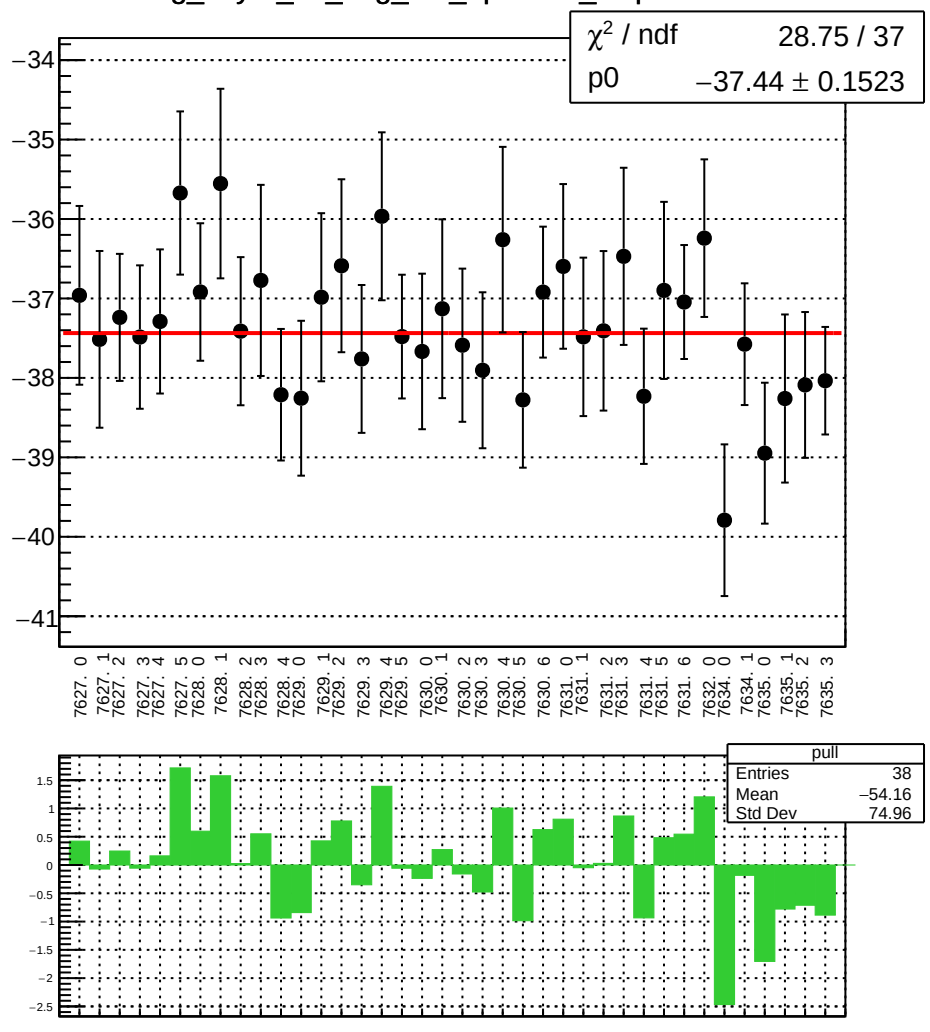

pull1D
Entries 38
Mean 0.06323
Std Dev 0.4763

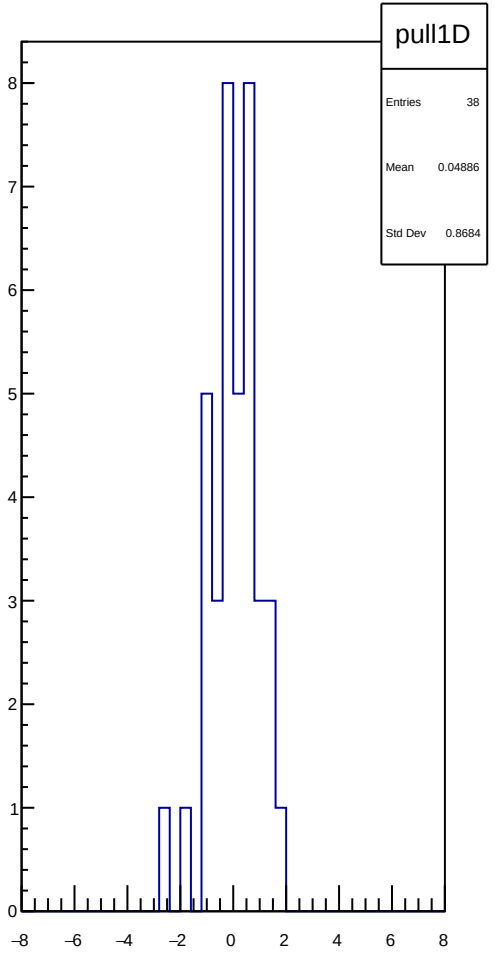

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 18.59 / 37
p0 73.97 ± 0.9407
pull
Entries 38
Mean −24.84
Std Dev 47.06

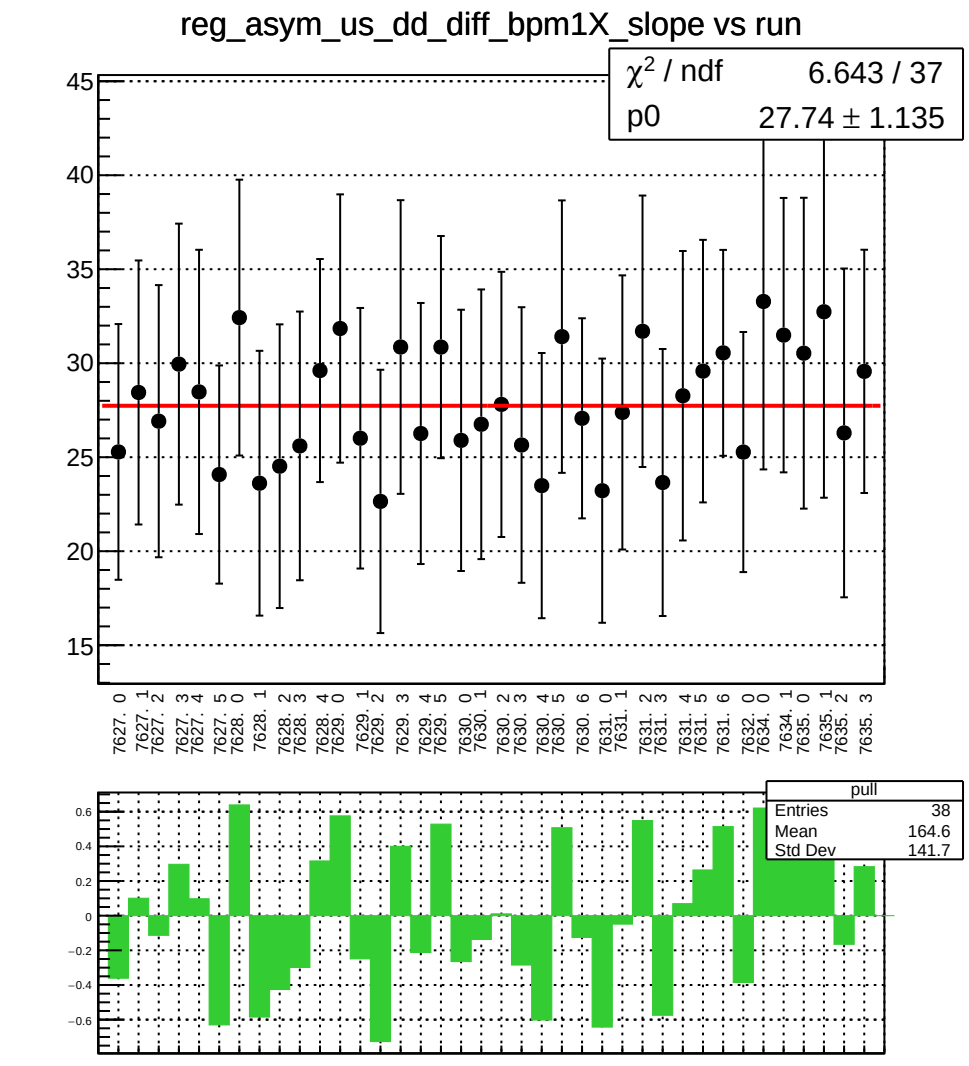

pull1D
Entries 38
Mean −0.04698
Std Dev 0.6978

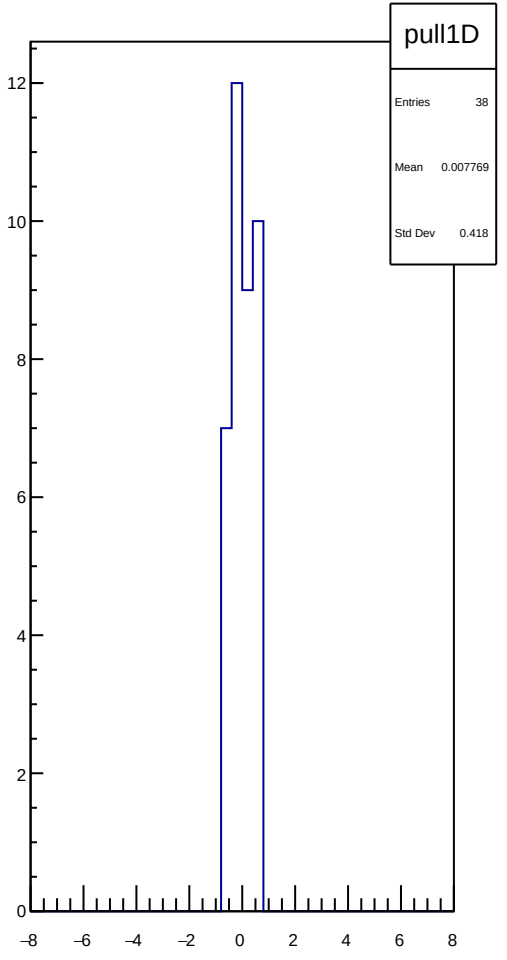

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.586 / 37
p0 13.31 ± 2.135
pull
Entries 38
Mean −16.09
Std Dev 36.69

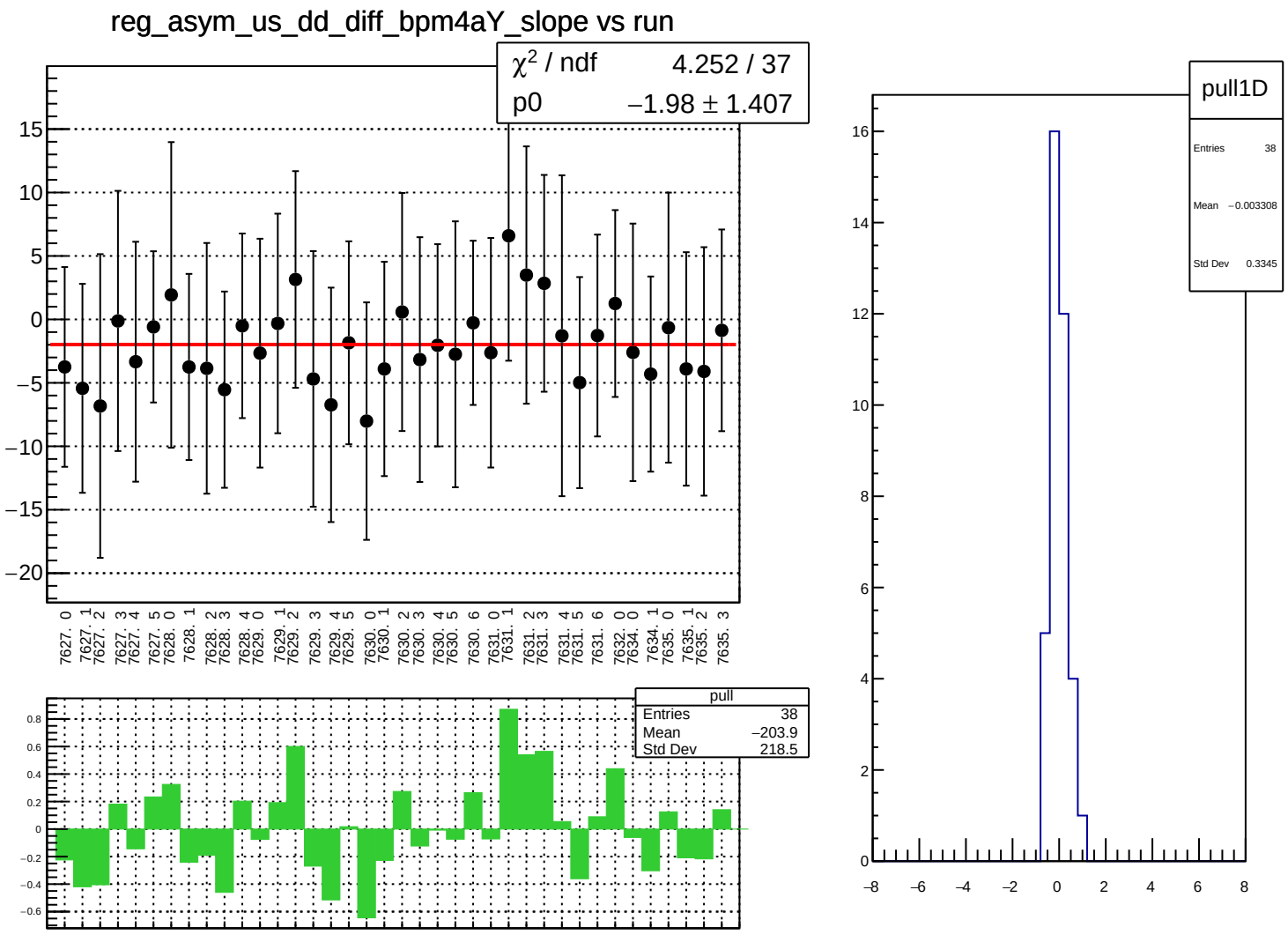

pull1D
Entries 38
Mean −0.06049
Std Dev 0.4715

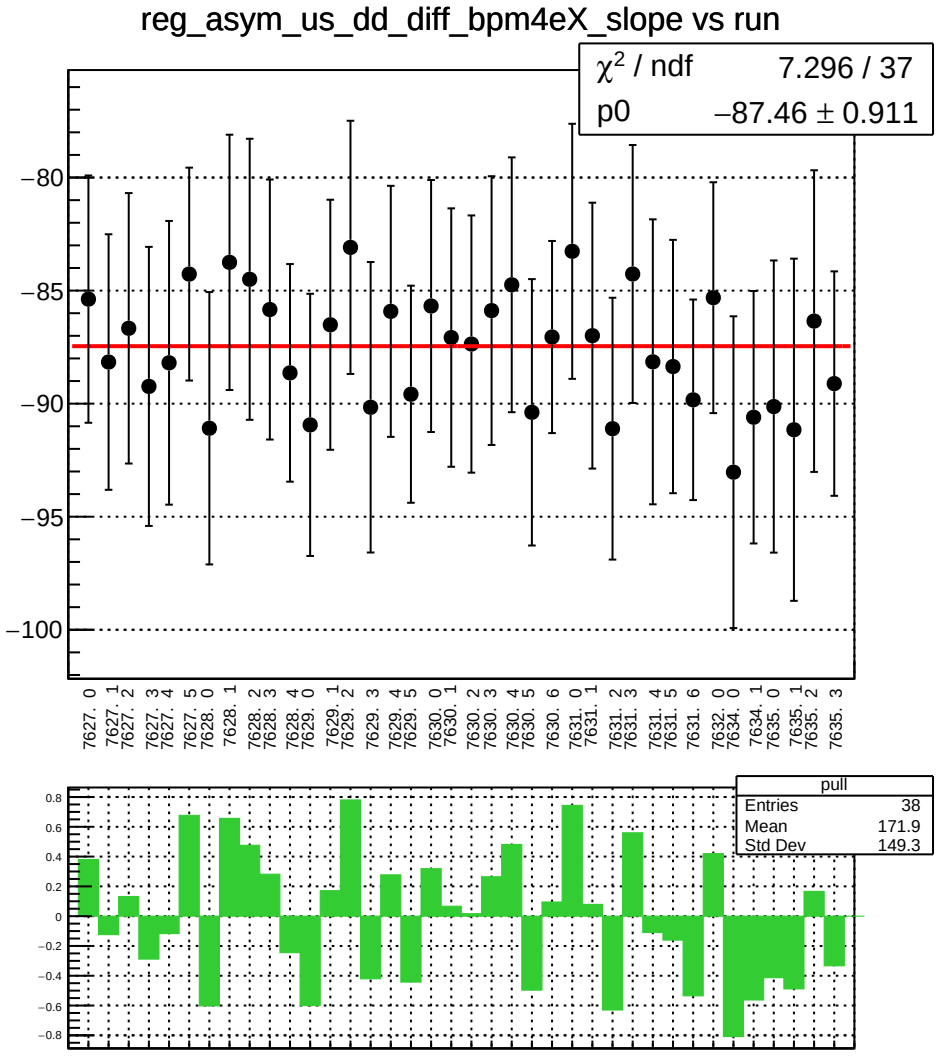

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 28.75 / 37
p0 −37.44 ± 0.1523
pull
Entries 38
Mean −54.16
Std Dev 74.96

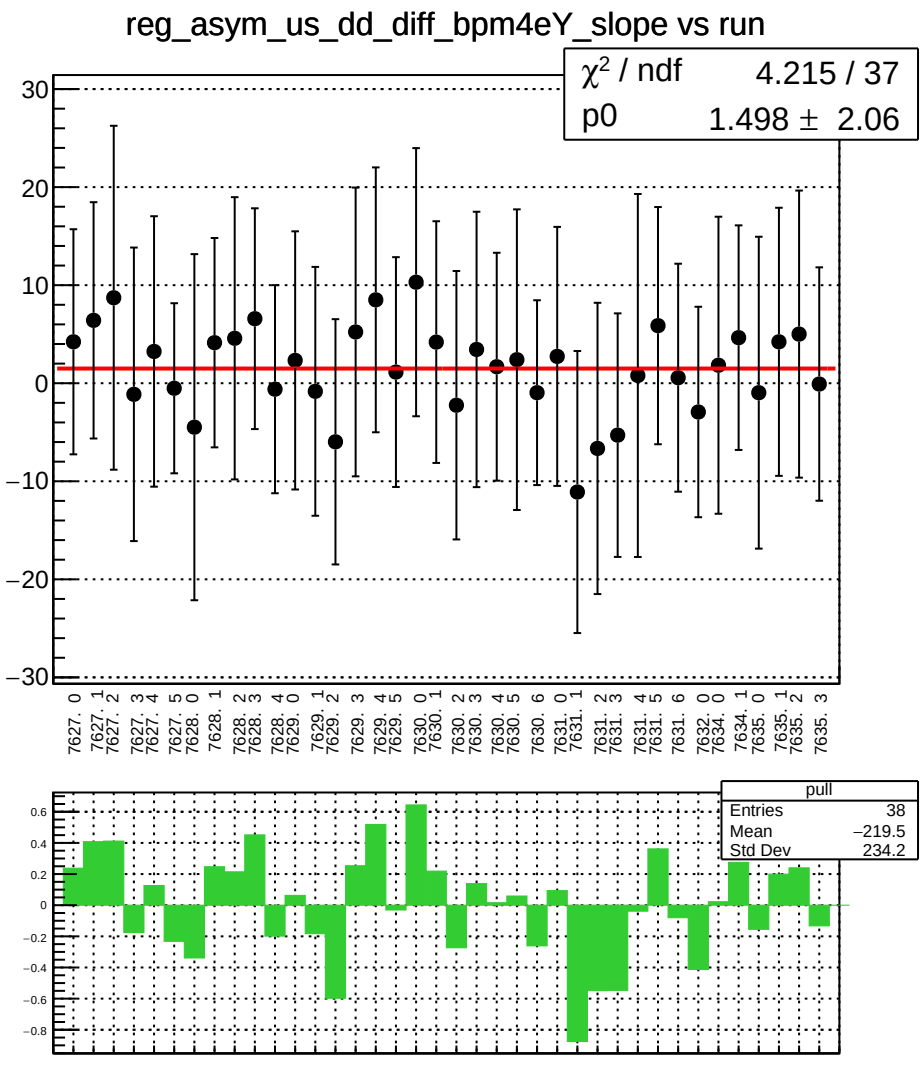

pull1D
Entries 38
Mean 0.04886
Std Dev 0.8684

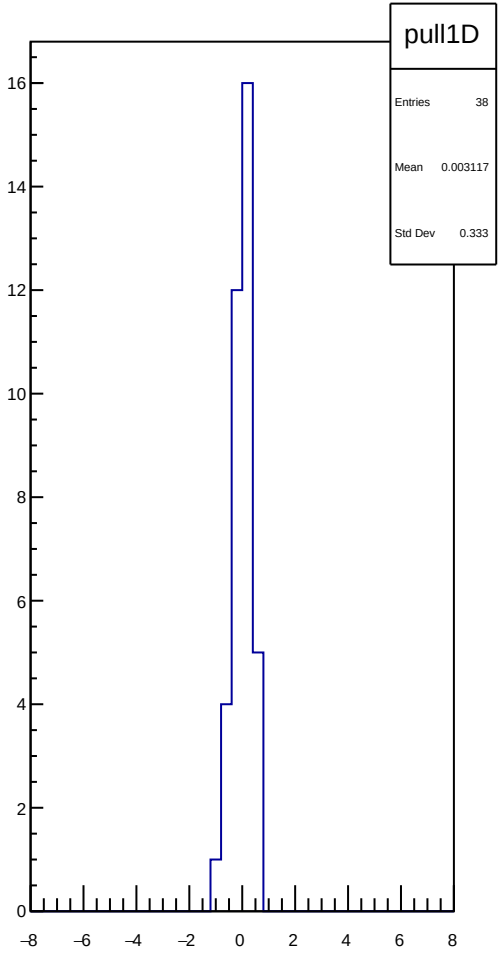

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 6.643 / 37
p0 27.74 ± 1.135
45
40
35
30
25
20
15
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 164.6
Std Dev 141.7
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

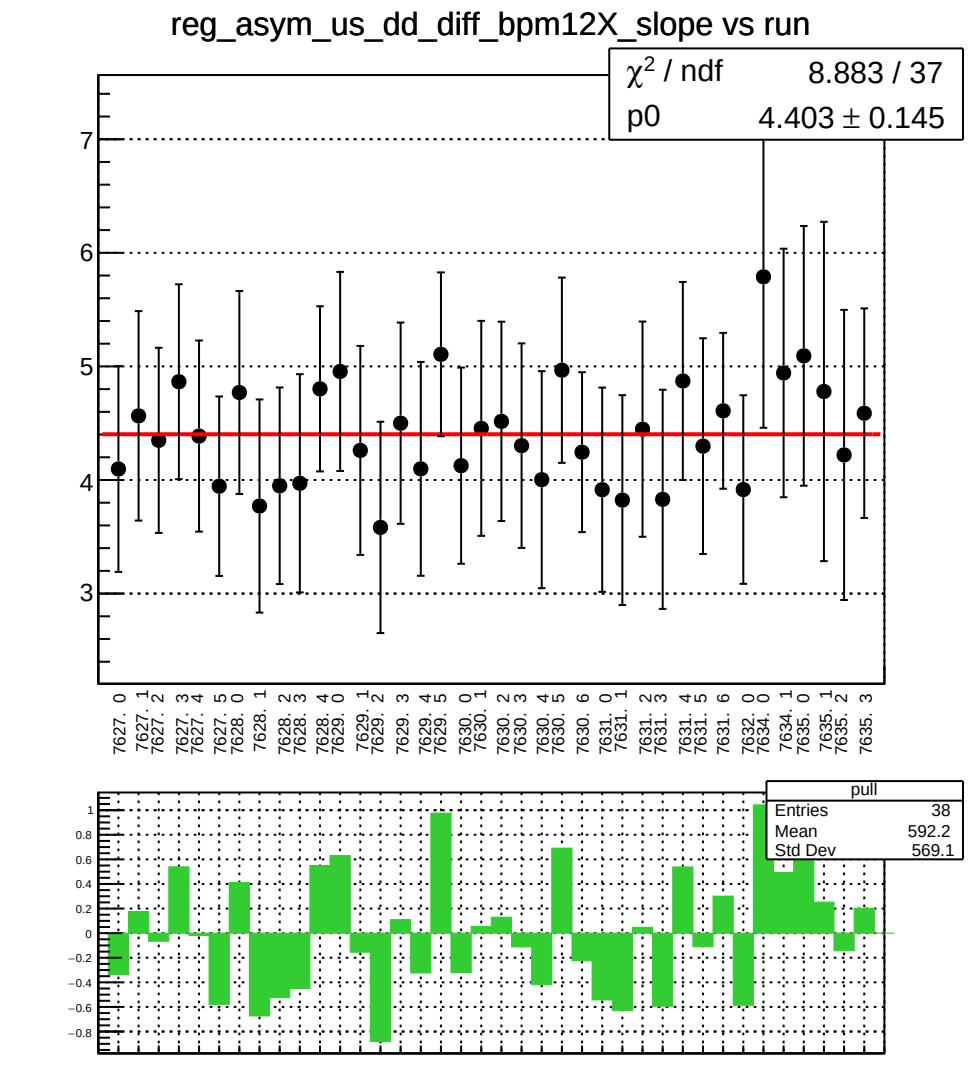

pull1D
Entries 38
Mean 0.007769
Std Dev 0.418
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

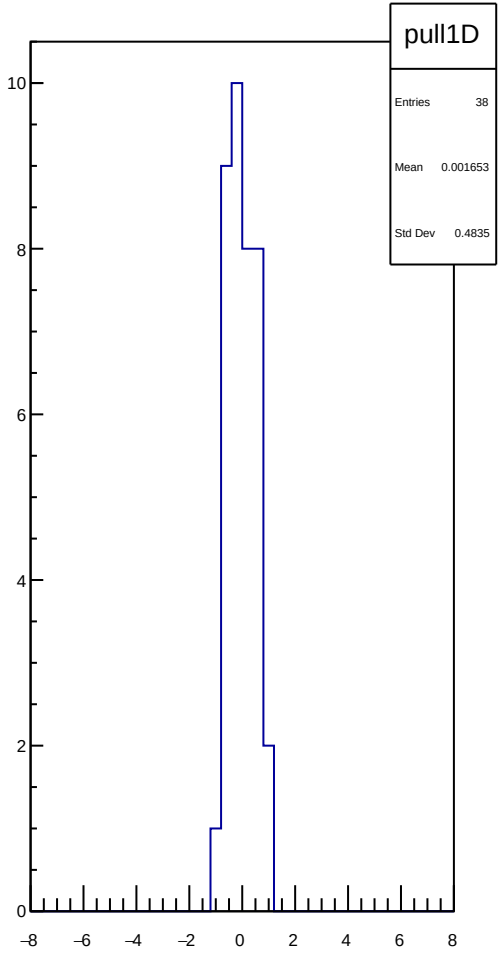

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.252 / 37
p0 −1.98 ± 1.407
15
10
5
0
−5
−10
−15
−20
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −203.9
Std Dev 218.5
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 38
Mean −0.003308
Std Dev 0.3345
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

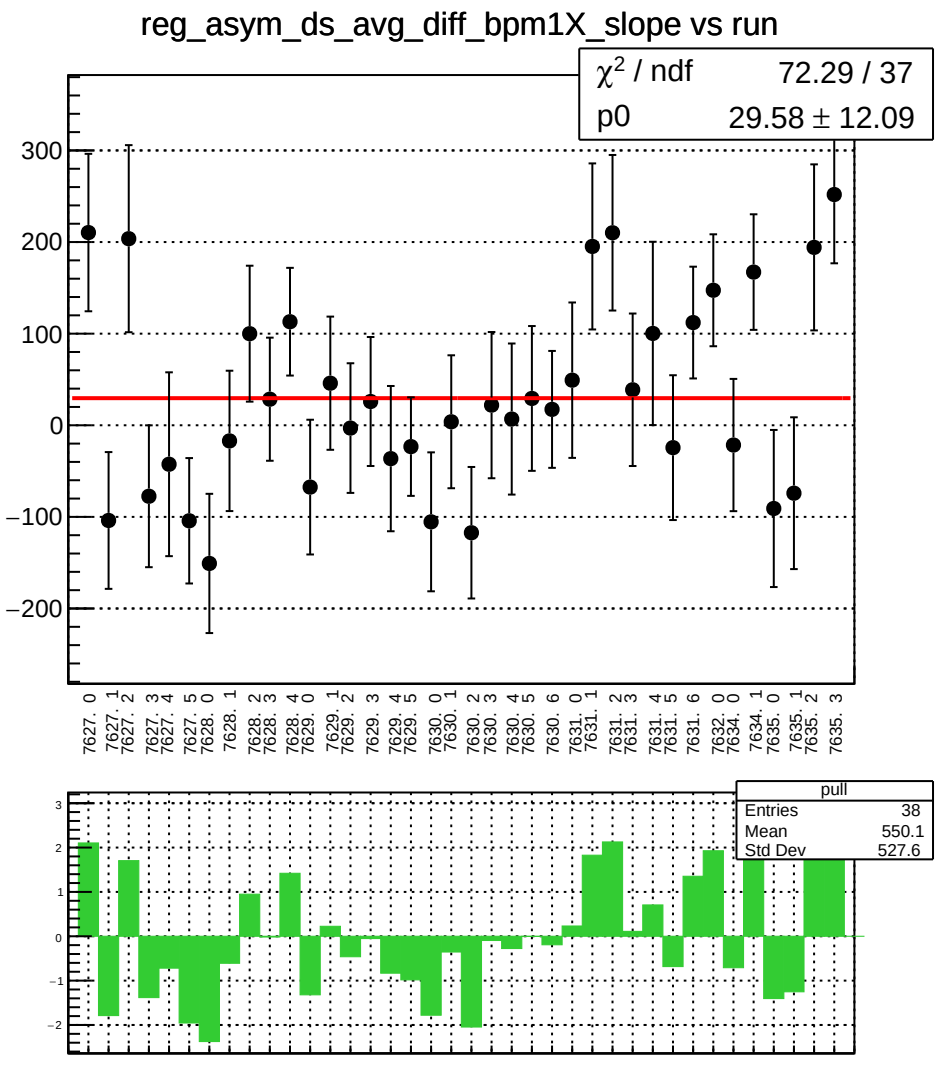

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.296 / 37
p0 −87.46 ± 0.911
−80
−85
−90
−95
−100
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 171.9
Std Dev 149.3
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 38
Mean −0.008691
Std Dev 0.4381
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

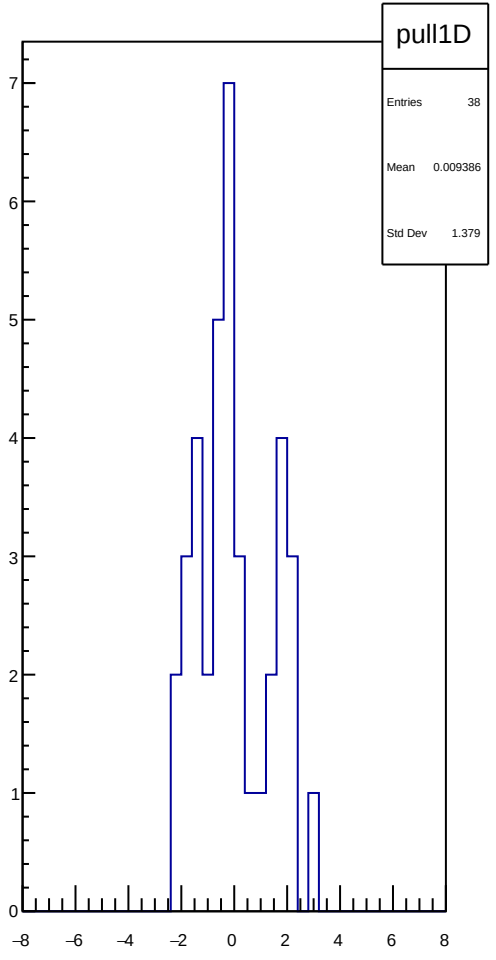

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.215 / 37
p0 1.498 ± 2.06
pull
Entries 38
Mean −219.5
Std Dev 234.2

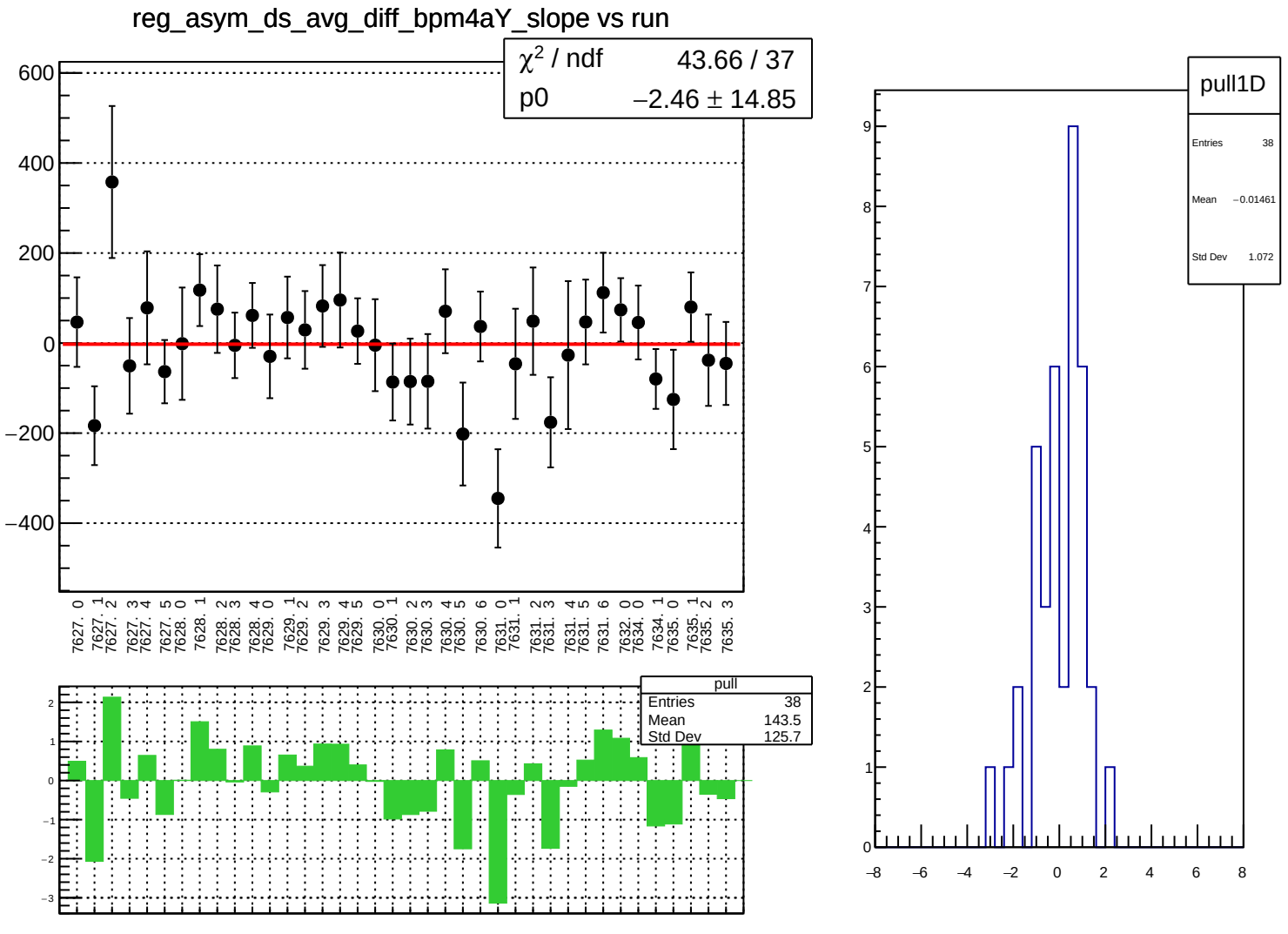

pull1D
Entries 38
Mean 0.003117
Std Dev 0.333

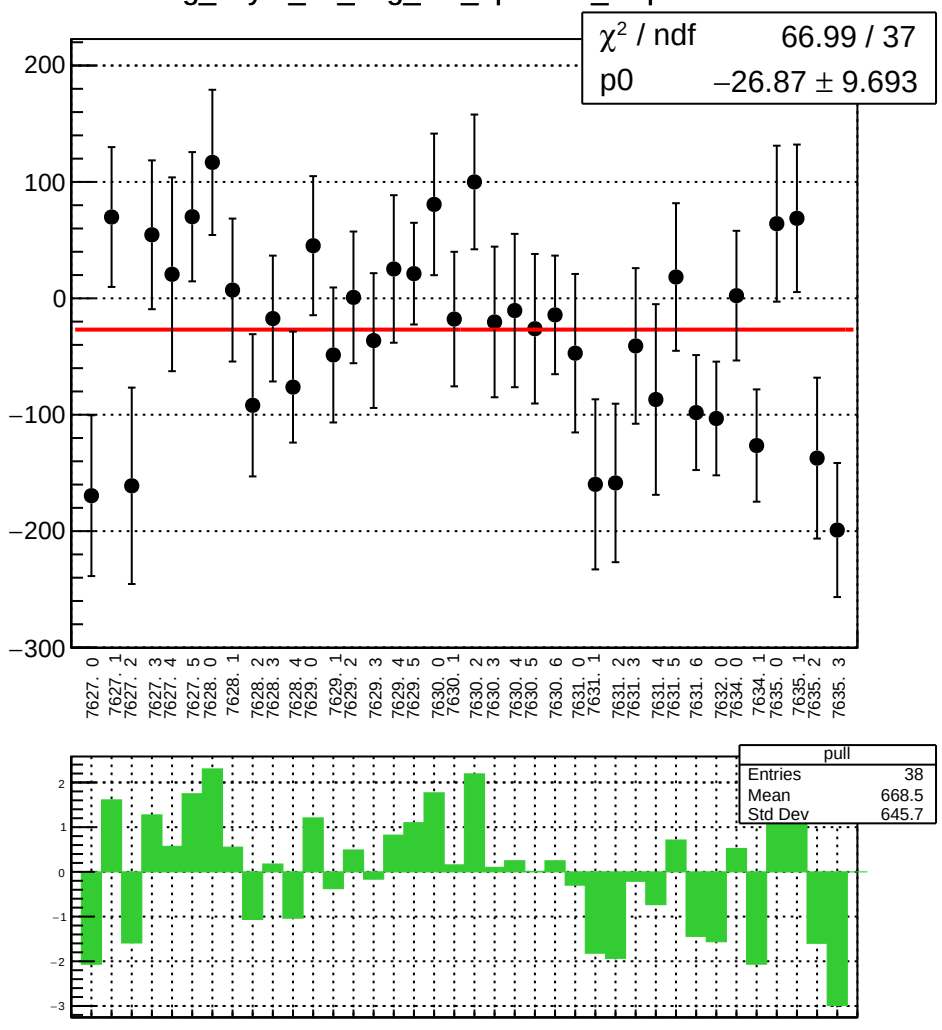

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 8.883 / 37
p0 4.403 ± 0.145
pull
Entries 38
Mean 592.2
Std Dev 569.1

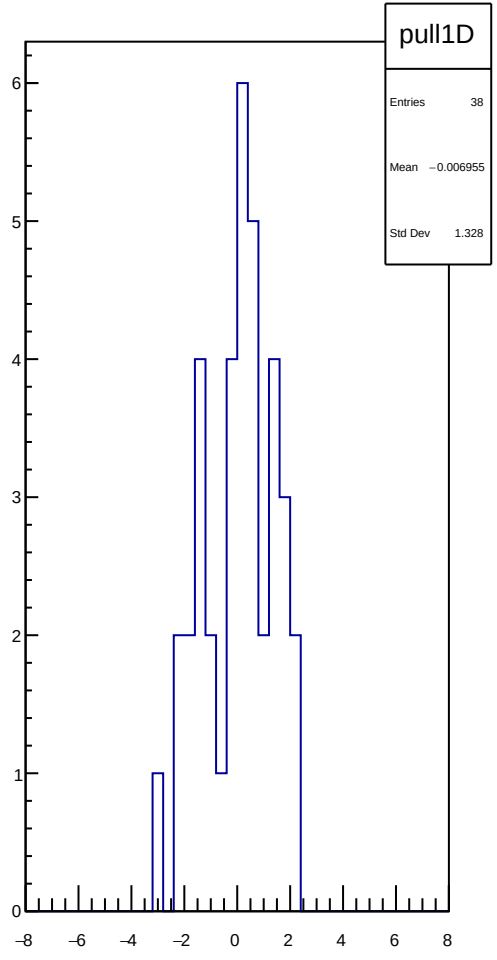

pull1D
Entries 38
Mean 0.001653
Std Dev 0.4835

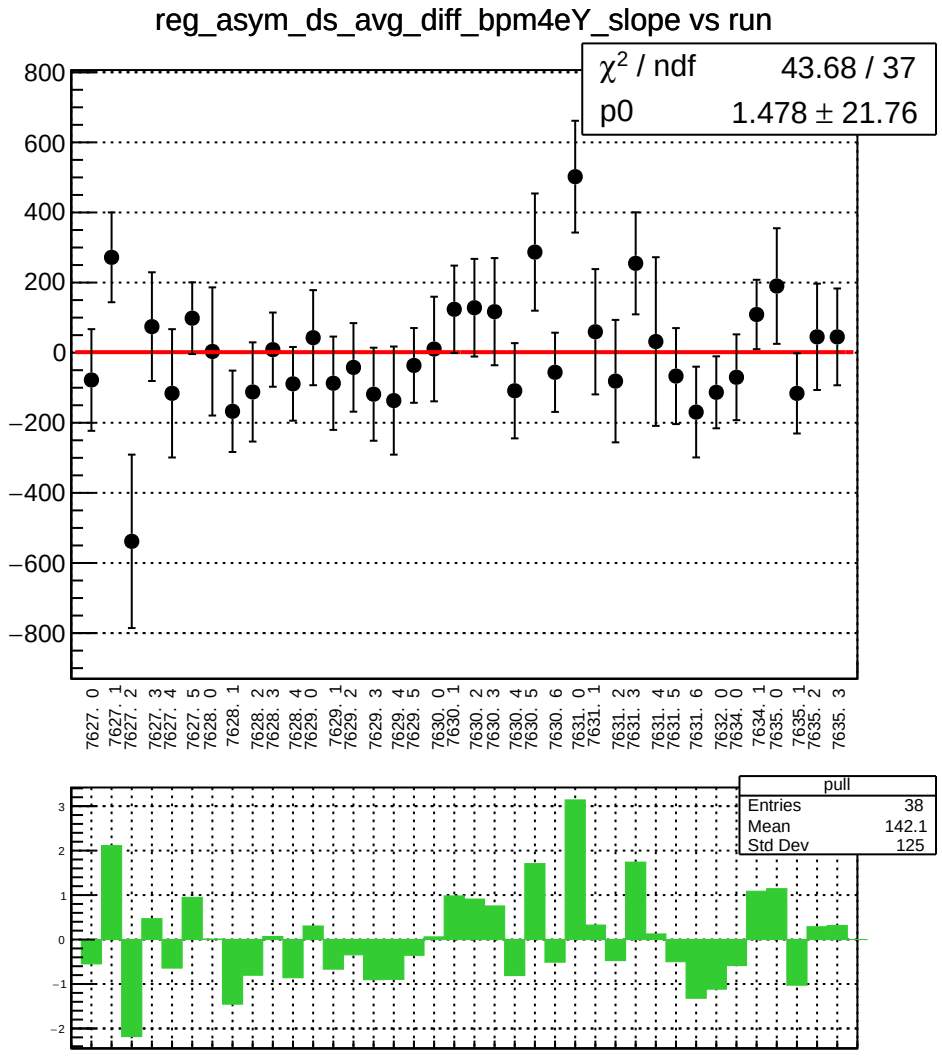

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 72.29 / 37
p0 29.58 ± 12.09
300
200
100
0
−100
−200
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 4
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 550.1
Std Dev 527.6
3
2
1
0
−1
−2

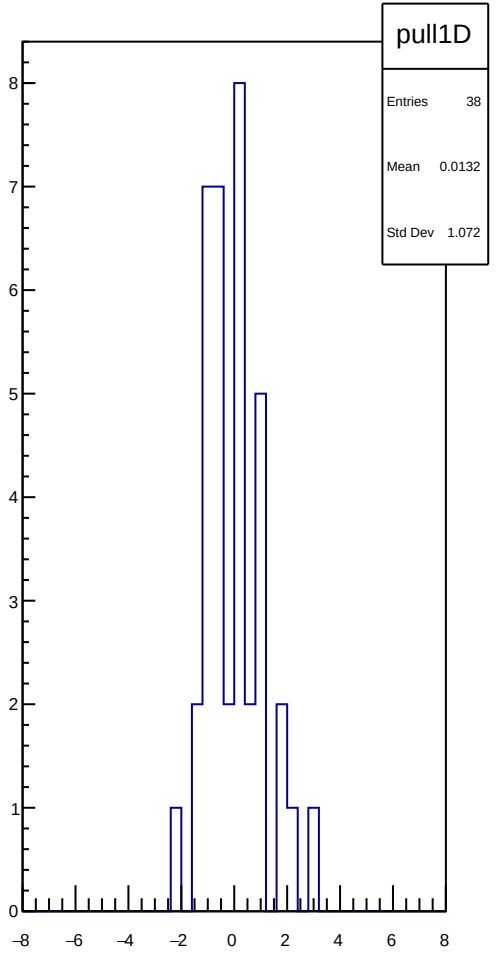

pull1D
Entries 38
Mean 0.009386
Std Dev 1.379
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

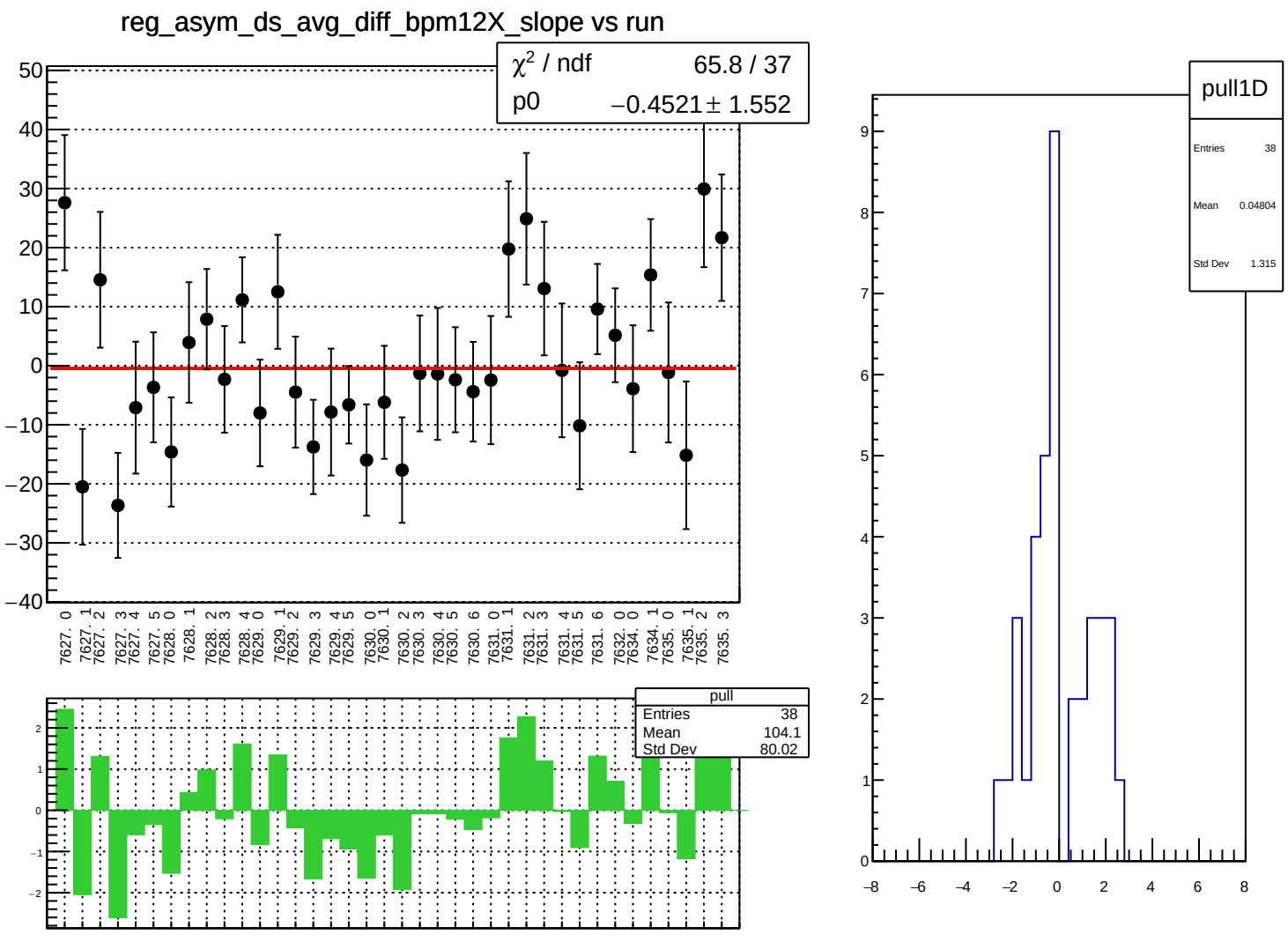

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 43.66 / 37
p0 −2.46 ± 14.85
600
400
200
0
−200
−400
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 143.5
Std Dev 125.7
2
1
0
−1
−2
−3
pull1D
Entries 38
Mean −0.01461
Std Dev 1.072
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

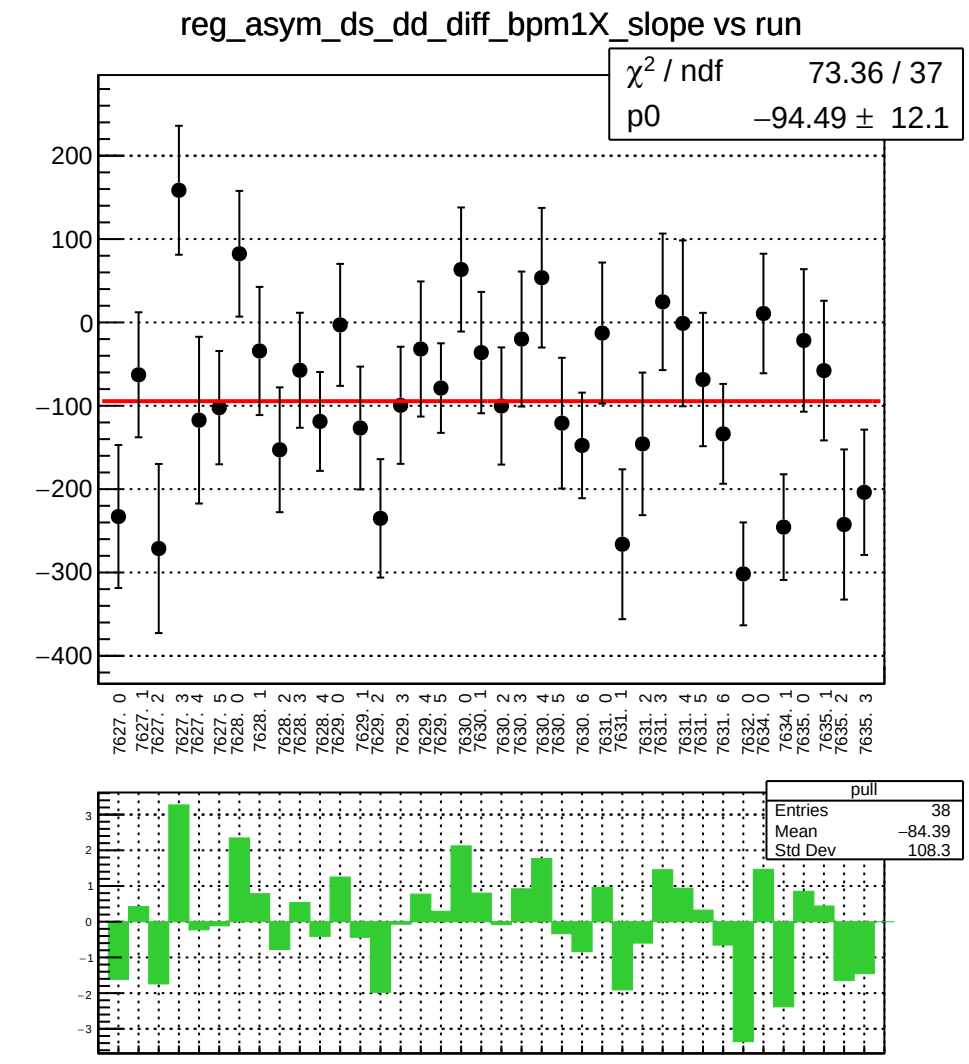

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 66.99 / 37
p0 −26.87 ± 9.693
pull
Entries 38
Mean 668.5
Std Dev 645.7

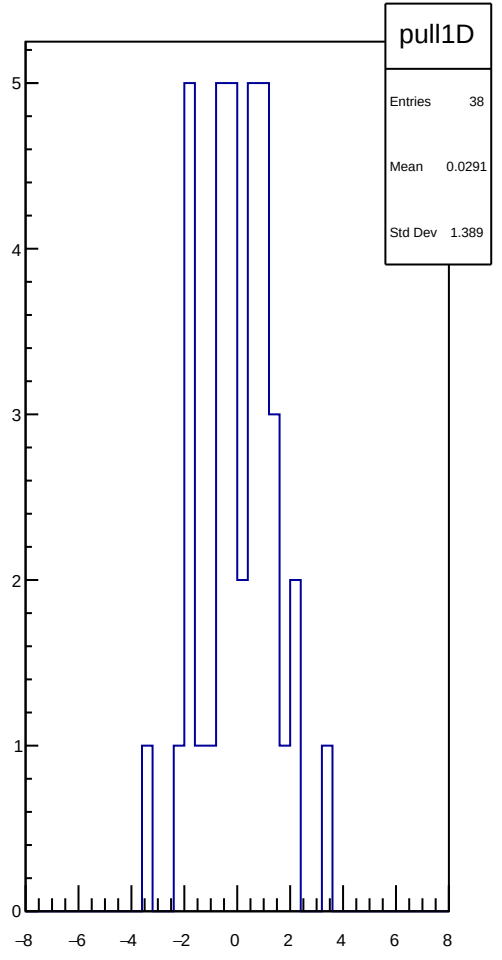

pull1D
Entries 38
Mean −0.006955
Std Dev 1.328

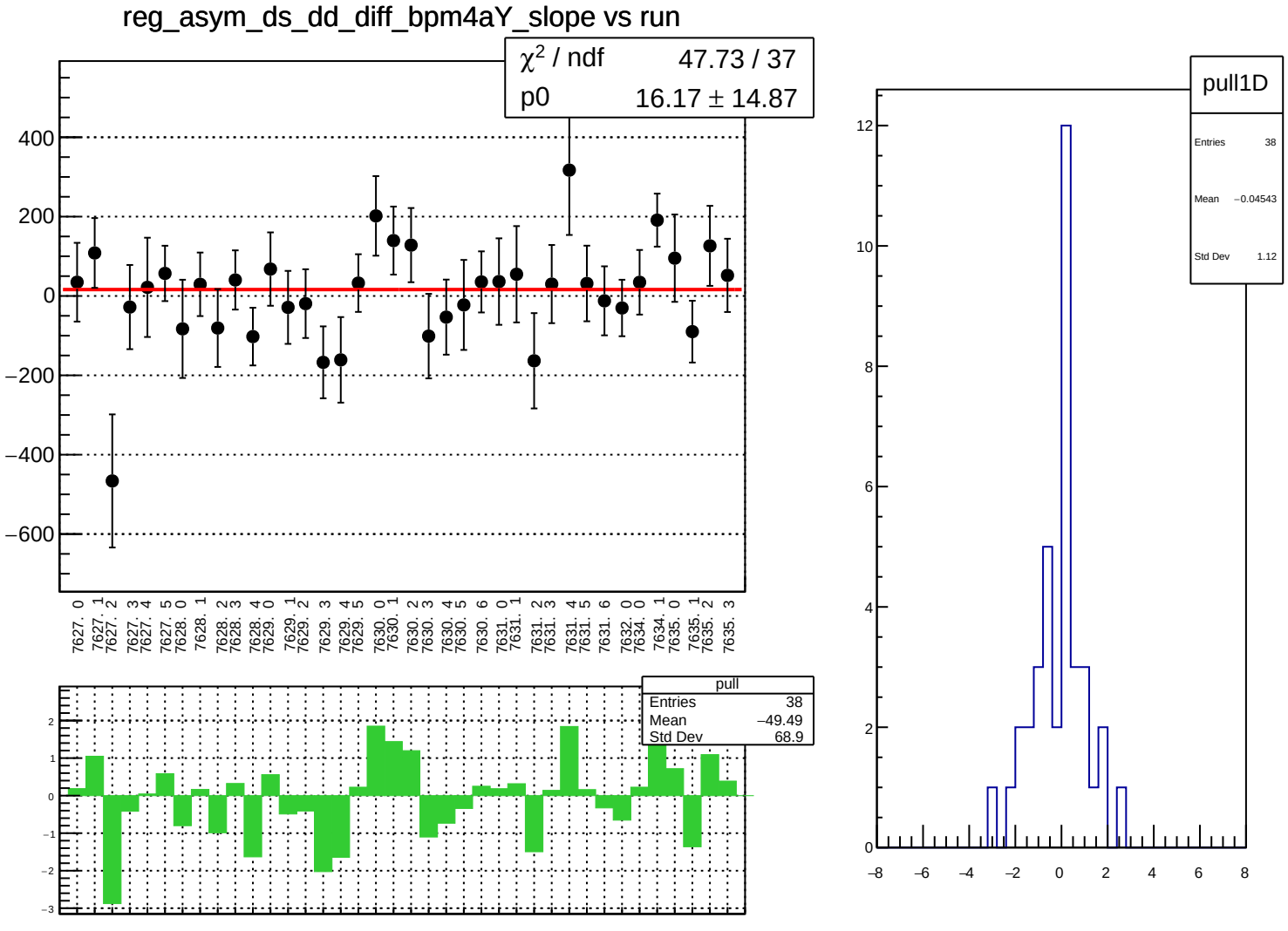

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 43.68 / 37
p0 1.478 ± 21.76
pull
Entries 38
Mean 142.1
Std Dev 125

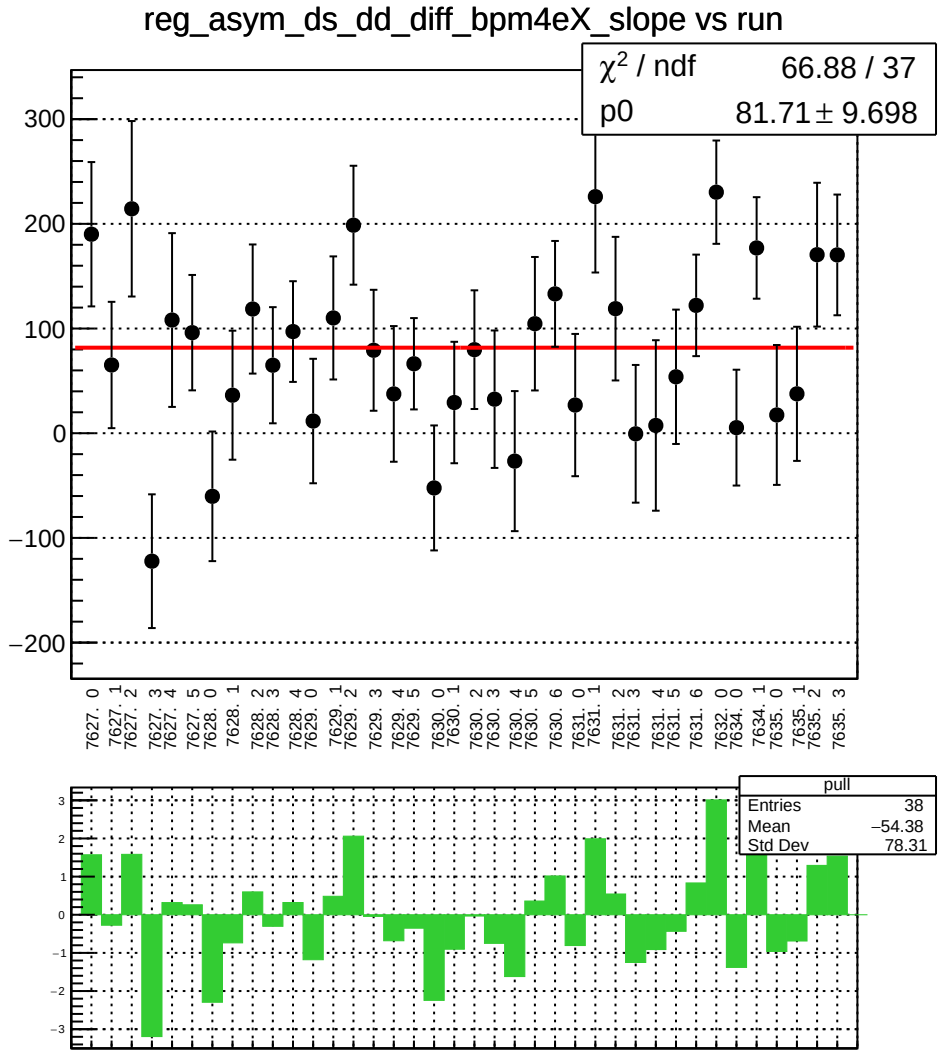

pull1D
Entries 38
Mean 0.0132
Std Dev 1.072

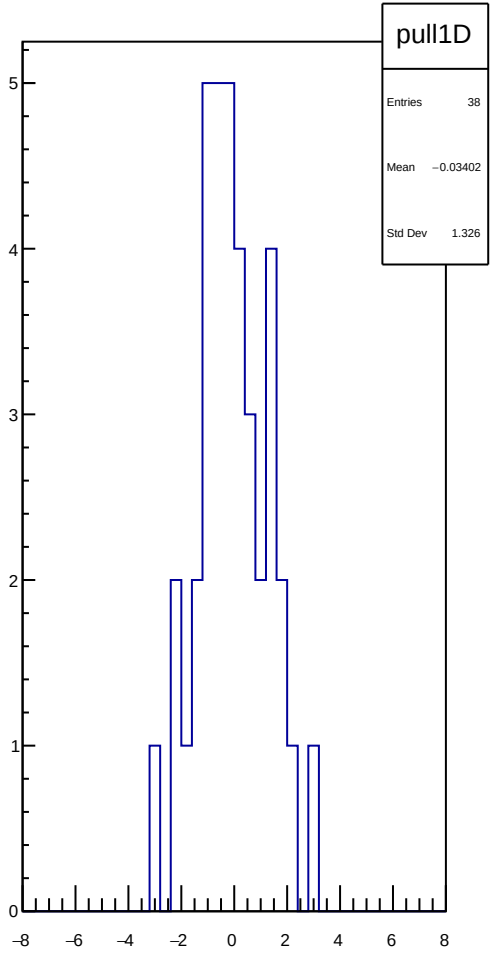

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 65.8 / 37
p0 −0.4521 ± 1.552
pull
Entries 38
Mean 104.1
Std Dev 80.02
pull1D
Entries 38
Mean 0.04804
Std Dev 1.315

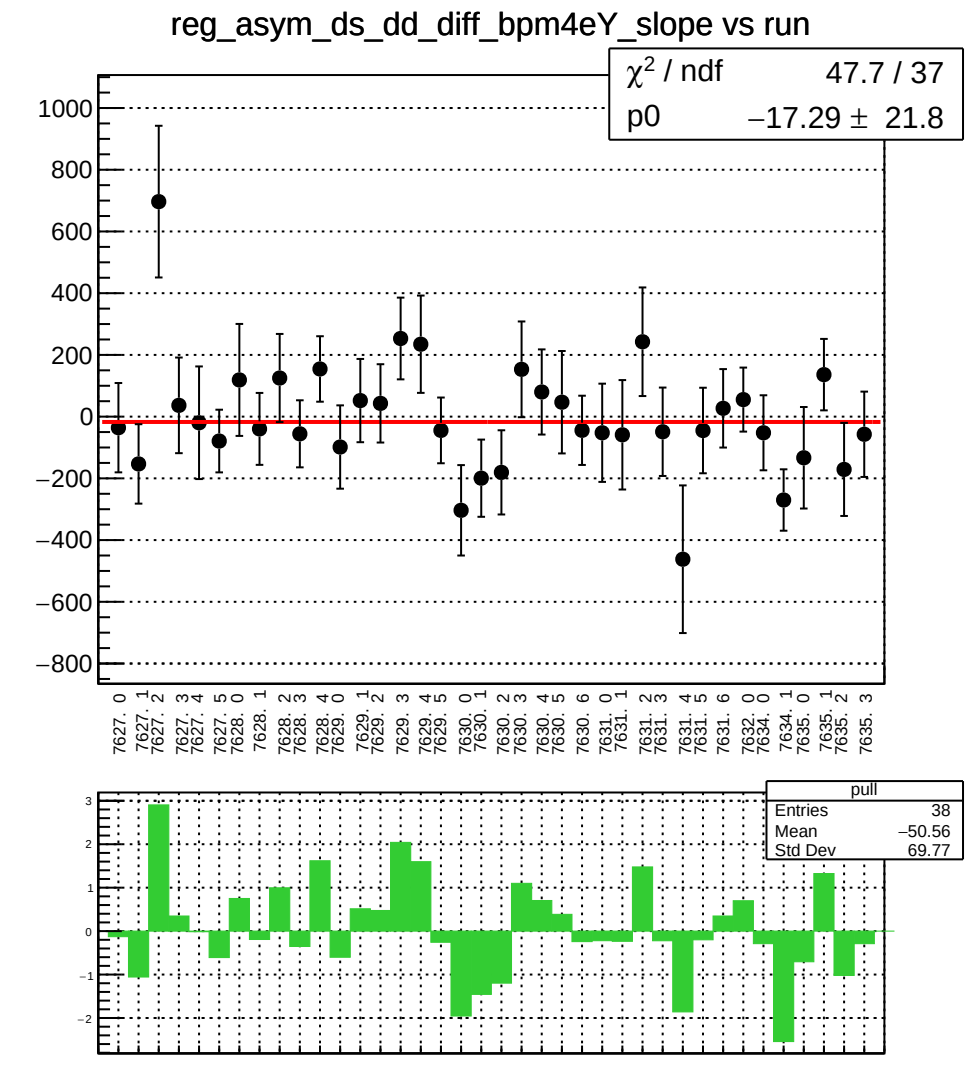

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 73.36 / 37
p0 −94.49 ± 12.1
200
100
0
−100
−200
−300
−400
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −84.39
Std Dev 108.3
3
2
1
0
−1
−2
−3

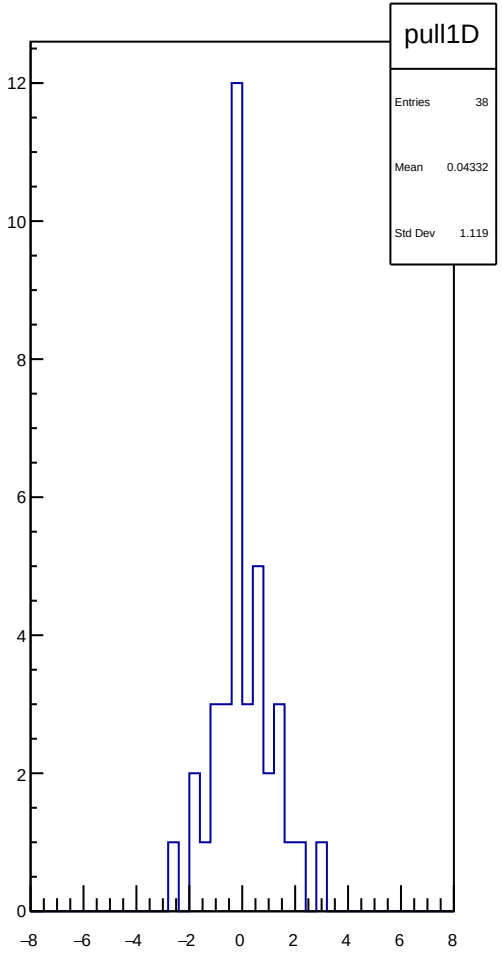

pull1D
Entries 38
Mean 0.0291
Std Dev 1.389
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

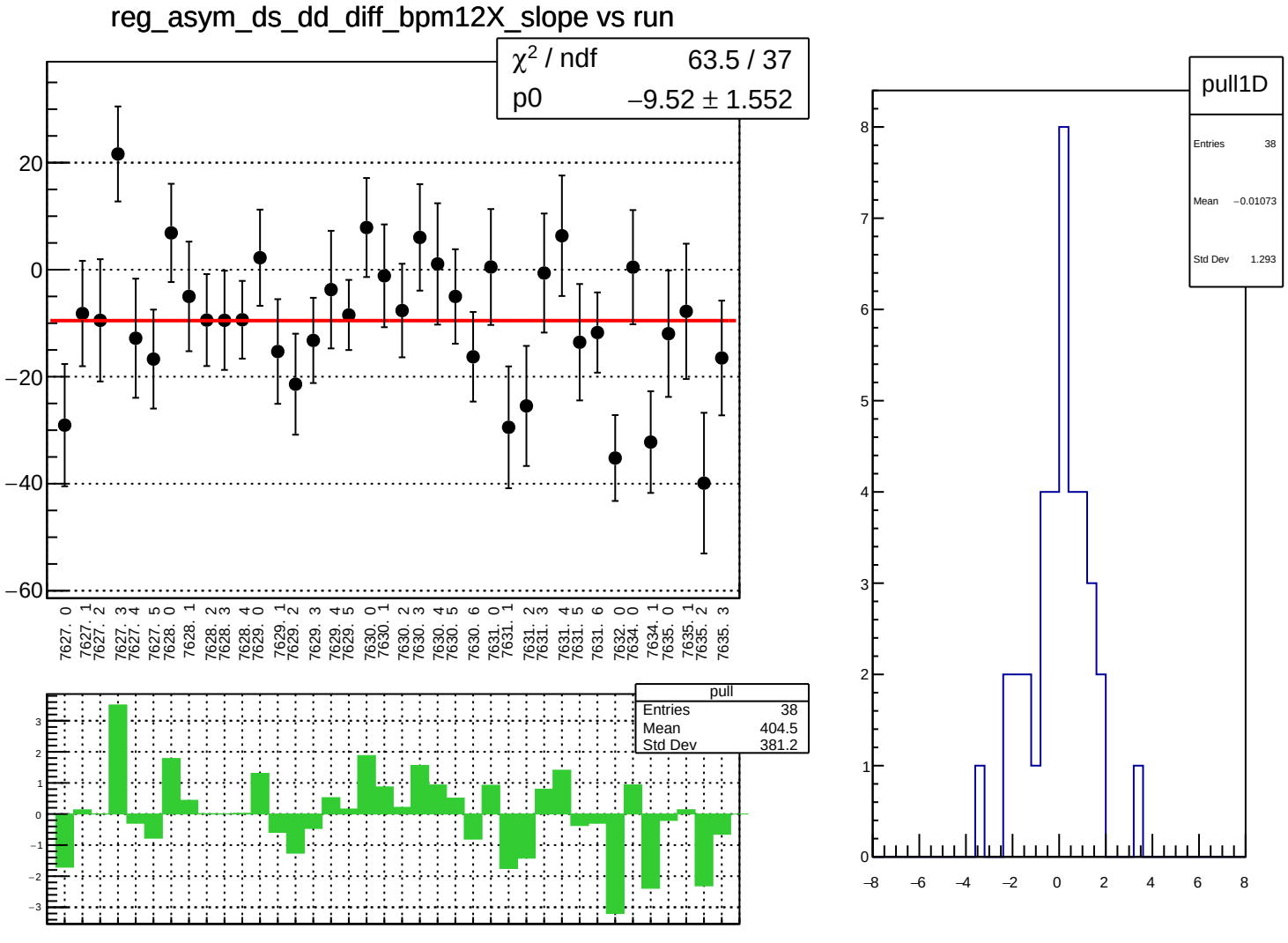

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 47.73 / 37
p0 16.17 ± 14.87
400
200
0
−200
−400
−600
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 4
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −49.49
Std Dev 68.9
2
1
0
−1
−2
−3
pull1D
Entries 38
Mean −0.04543
Std Dev 1.12
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

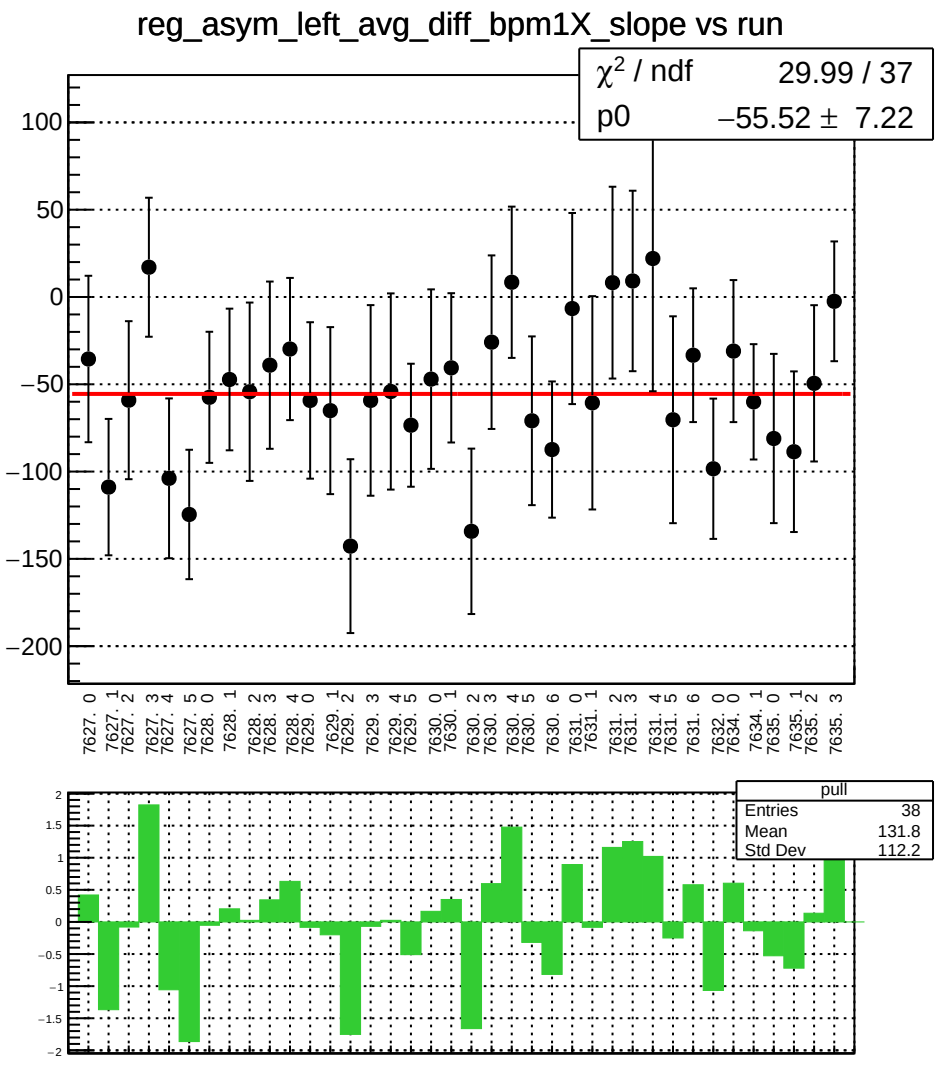

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 66.88 / 37
p0 81.71 ± 9.698
300
200
100
0
−100
−200
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −54.38
Std Dev 78.31
3
2
1
0
−1
−2
−3

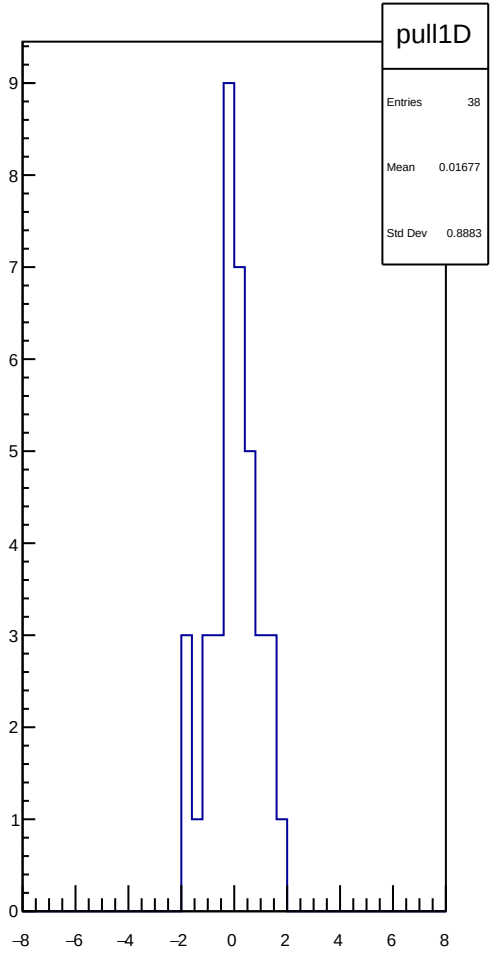

pull1D
Entries 38
Mean −0.03402
Std Dev 1.326
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

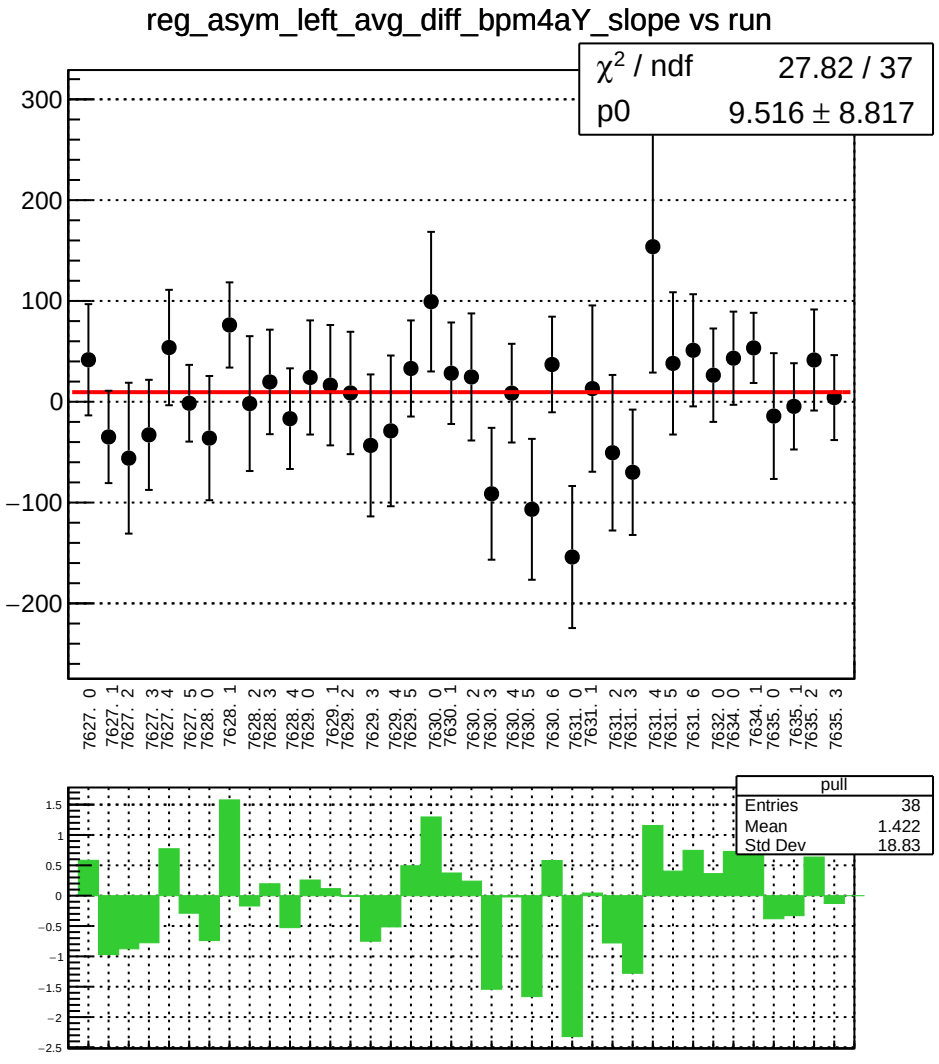

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 47.7 / 37
p0 −17.29 ± 21.8
pull
Entries 38
Mean −50.56
Std Dev 69.77

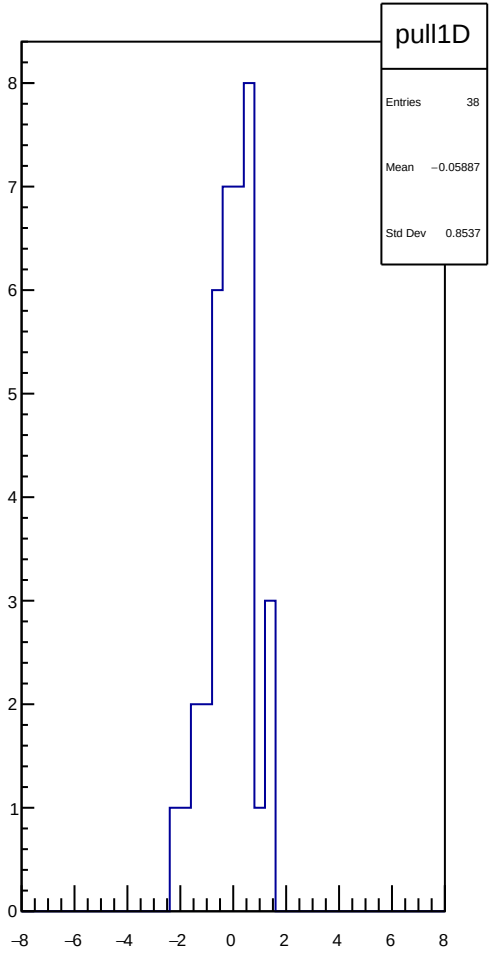

pull1D
Entries 38
Mean 0.04332
Std Dev 1.119

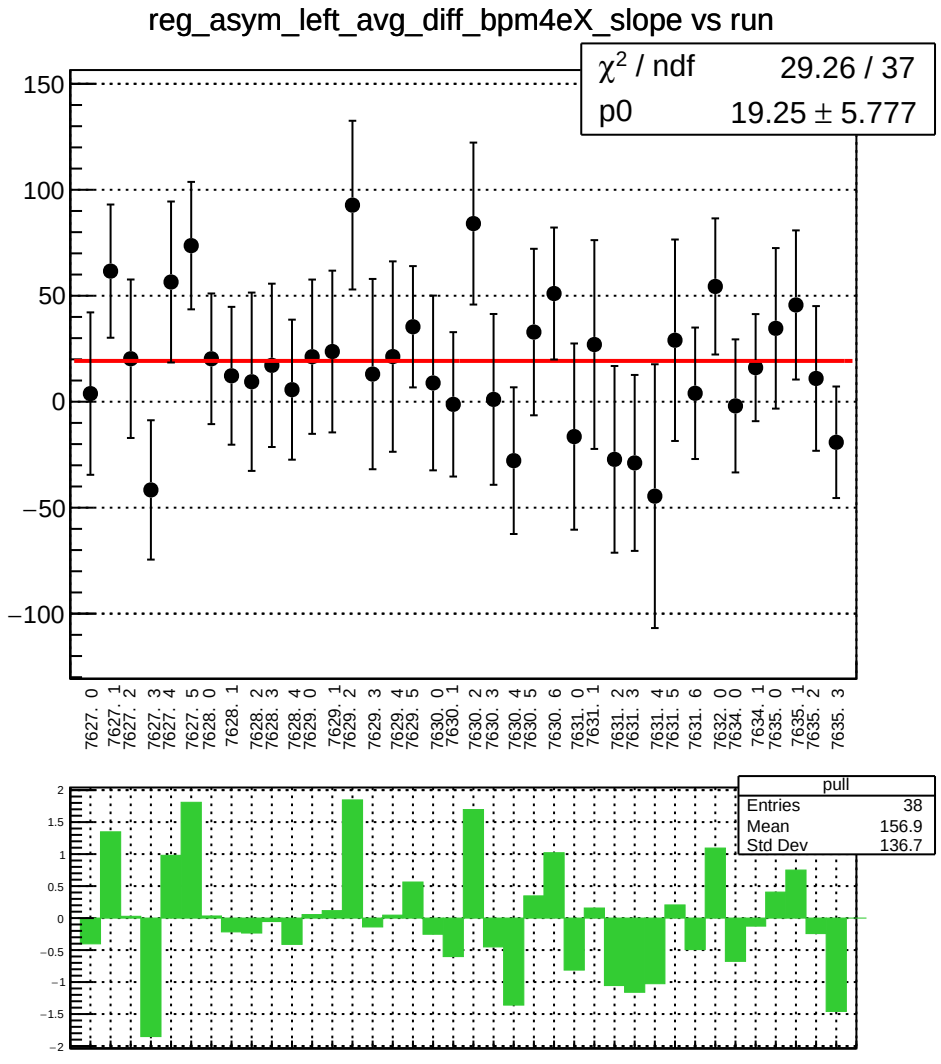

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 63.5 / 37
p0 −9.52 ± 1.552
20
0
−20
−40
−60
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 404.5
Std Dev 381.2
3
2
1
0
−1
−2
−3
pull1D
Entries 38
Mean −0.01073
Std Dev 1.293
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

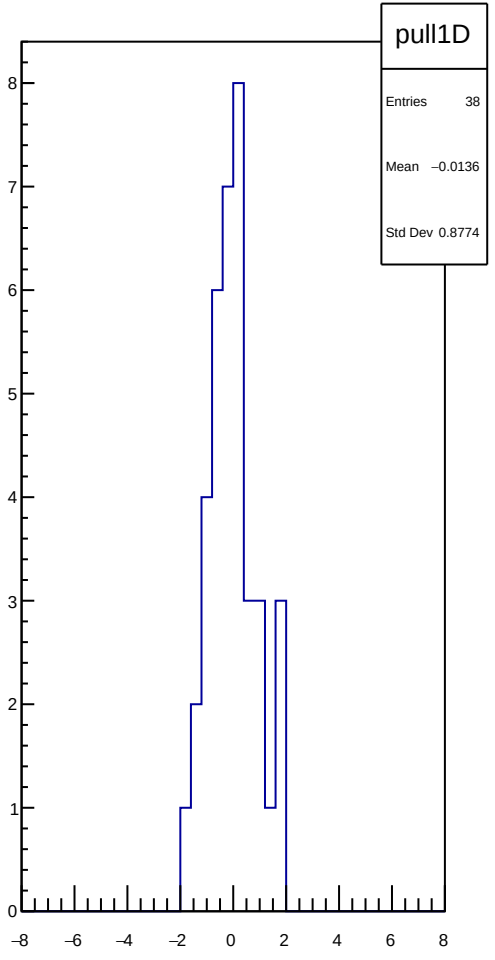

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 29.99 / 37
p0 −55.52 ± 7.22
pull
Entries 38
Mean 131.8
Std Dev 112.2

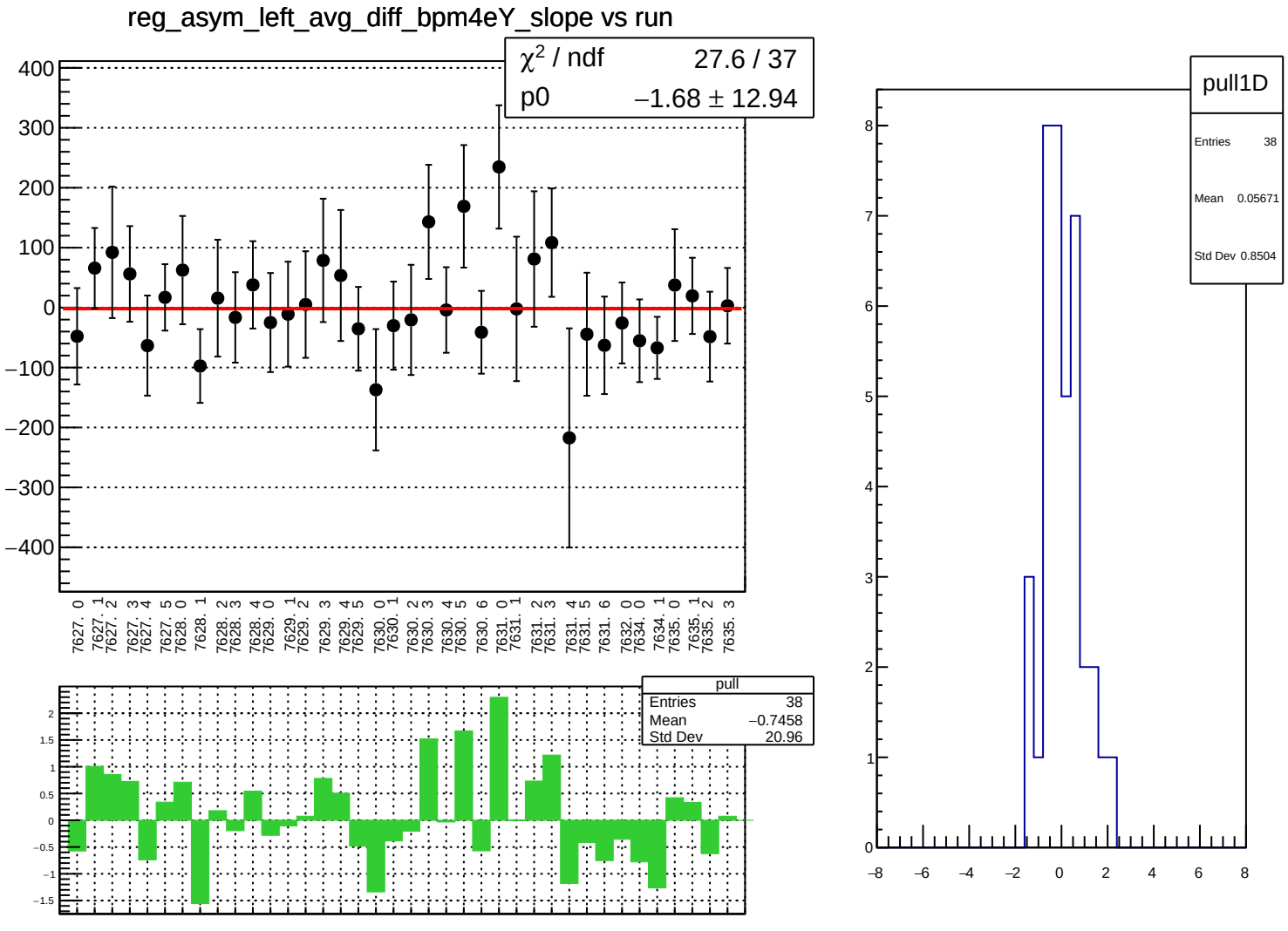

pull1D
Entries 38
Mean 0.01677
Std Dev 0.8883

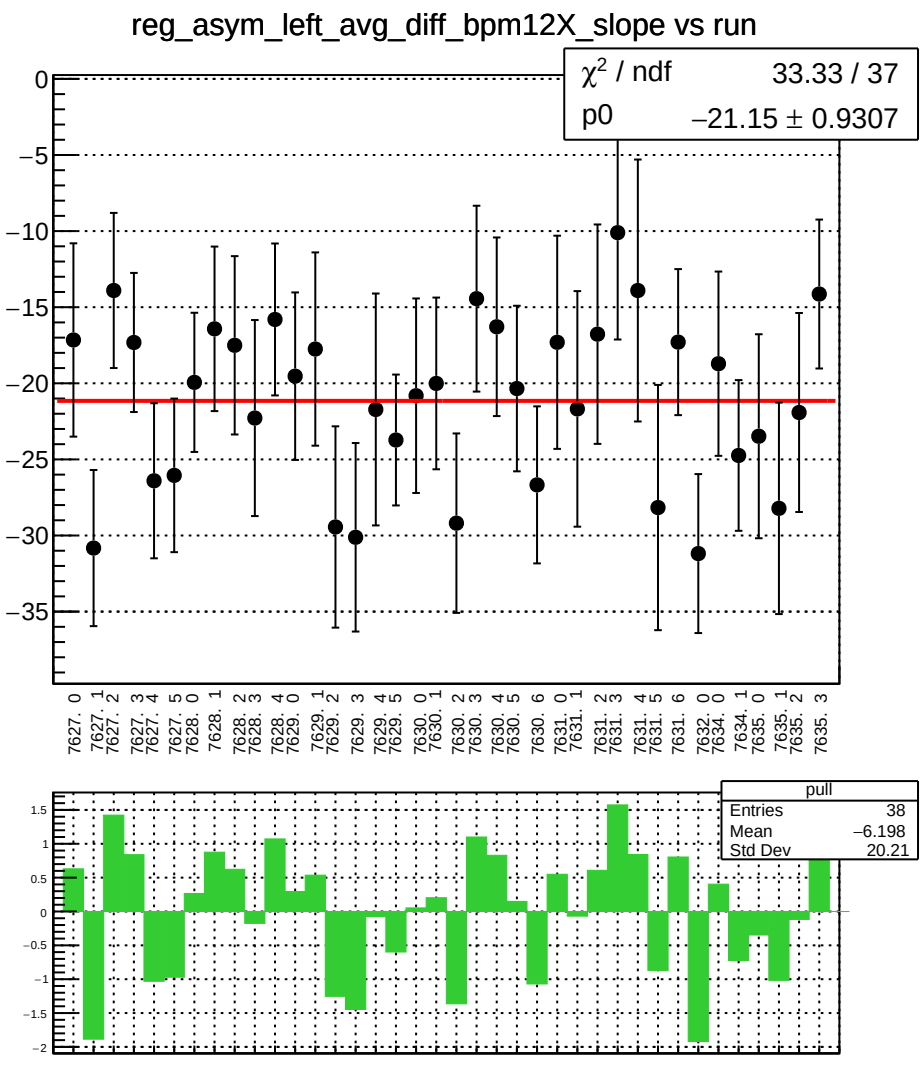

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 27.82 / 37
p0 9.516 ± 8.817
300
200
100
0
−100
−200
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 1.422
Std Dev 18.83
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

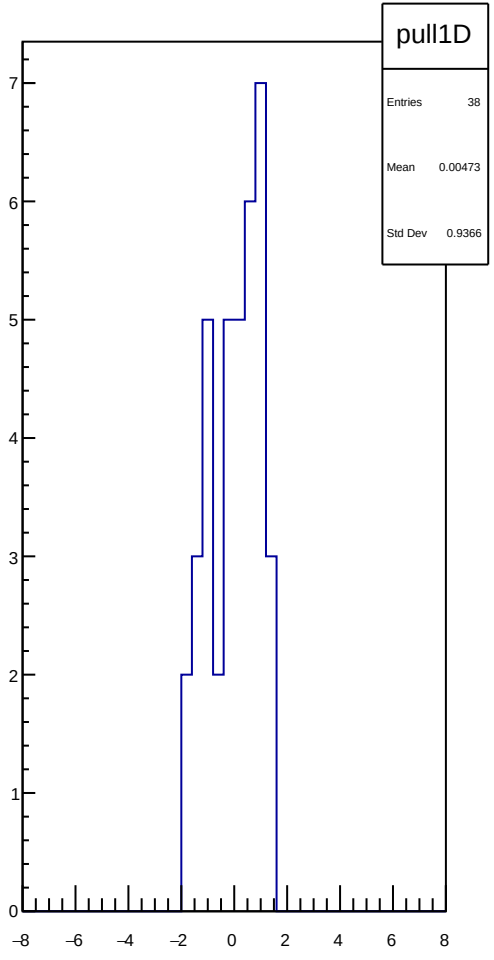

pull1D
Entries 38
Mean −0.05887
Std Dev 0.8537
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

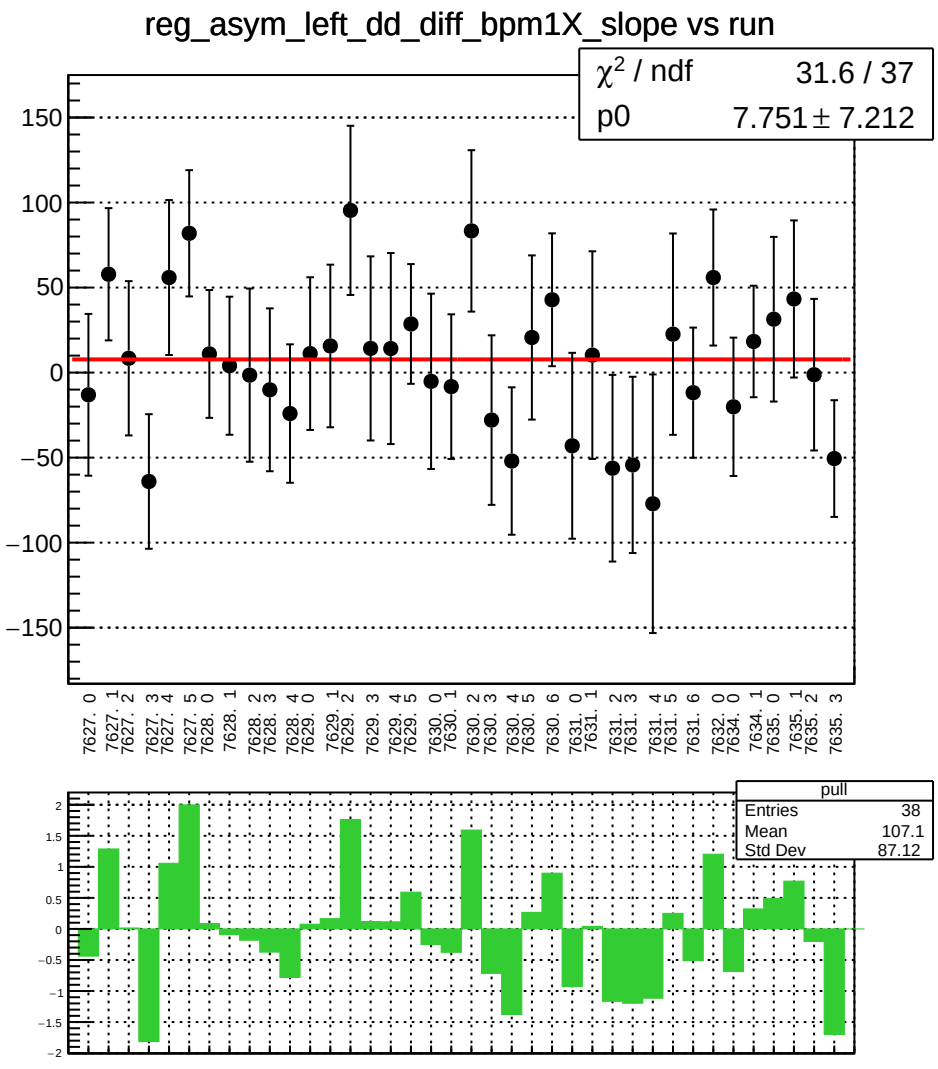

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 29.26 / 37
p0 19.25 ± 5.777
150
100
50
0
−50
−100
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 156.9
Std Dev 136.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

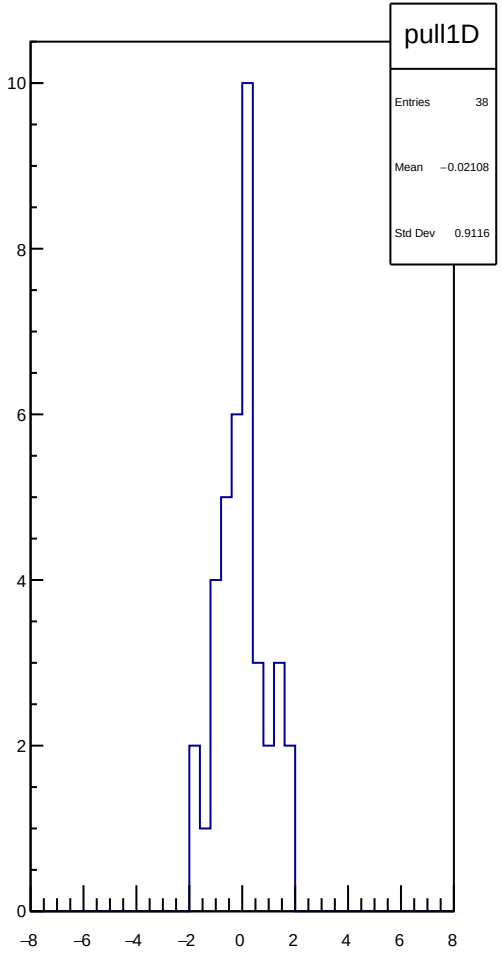

pull1D
Entries 38
Mean −0.0136
Std Dev 0.8774
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

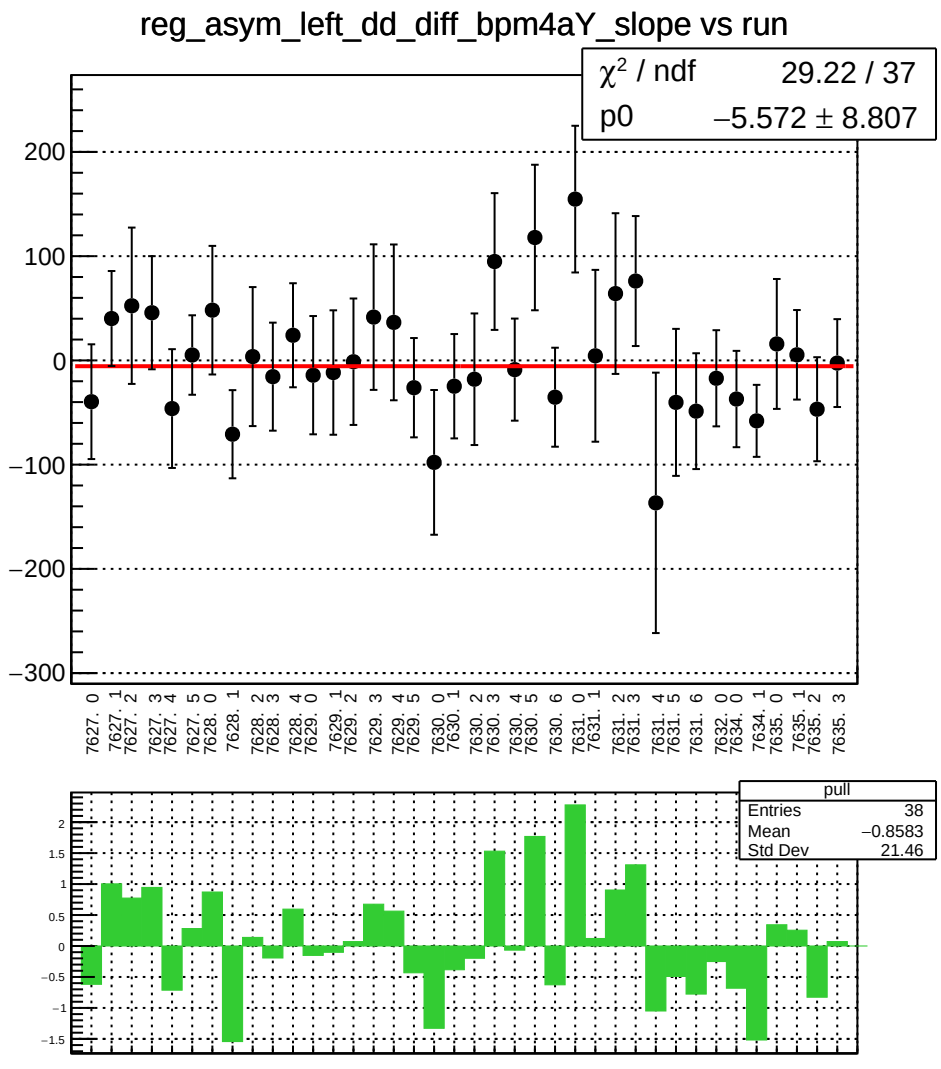

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 27.6 / 37
p0 −1.68 ± 12.94
400
300
200
100
0
−100
−200
−300
−400
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 4
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −0.7458
Std Dev 20.96
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 38
Mean 0.05671
Std Dev 0.8504
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

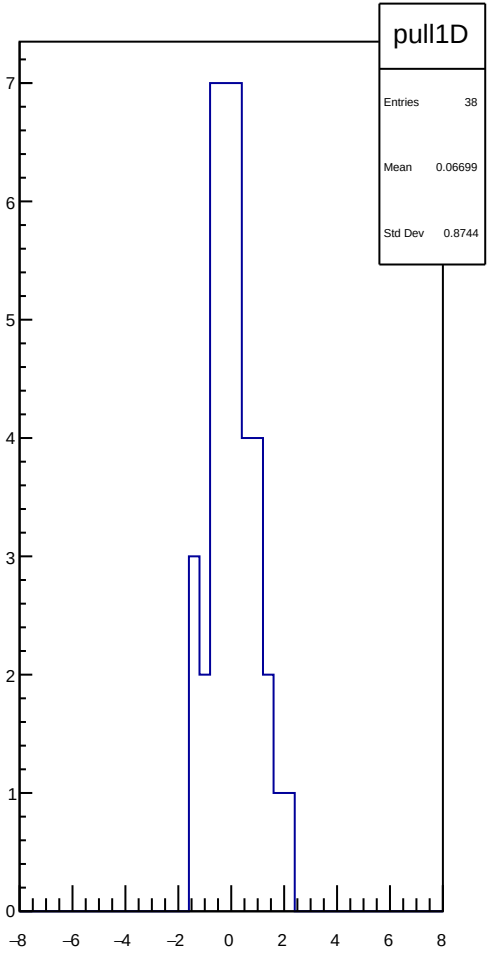

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 33.33 / 37
p0 −21.15 ± 0.9307
pull
Entries 38
Mean −6.198
Std Dev 20.21

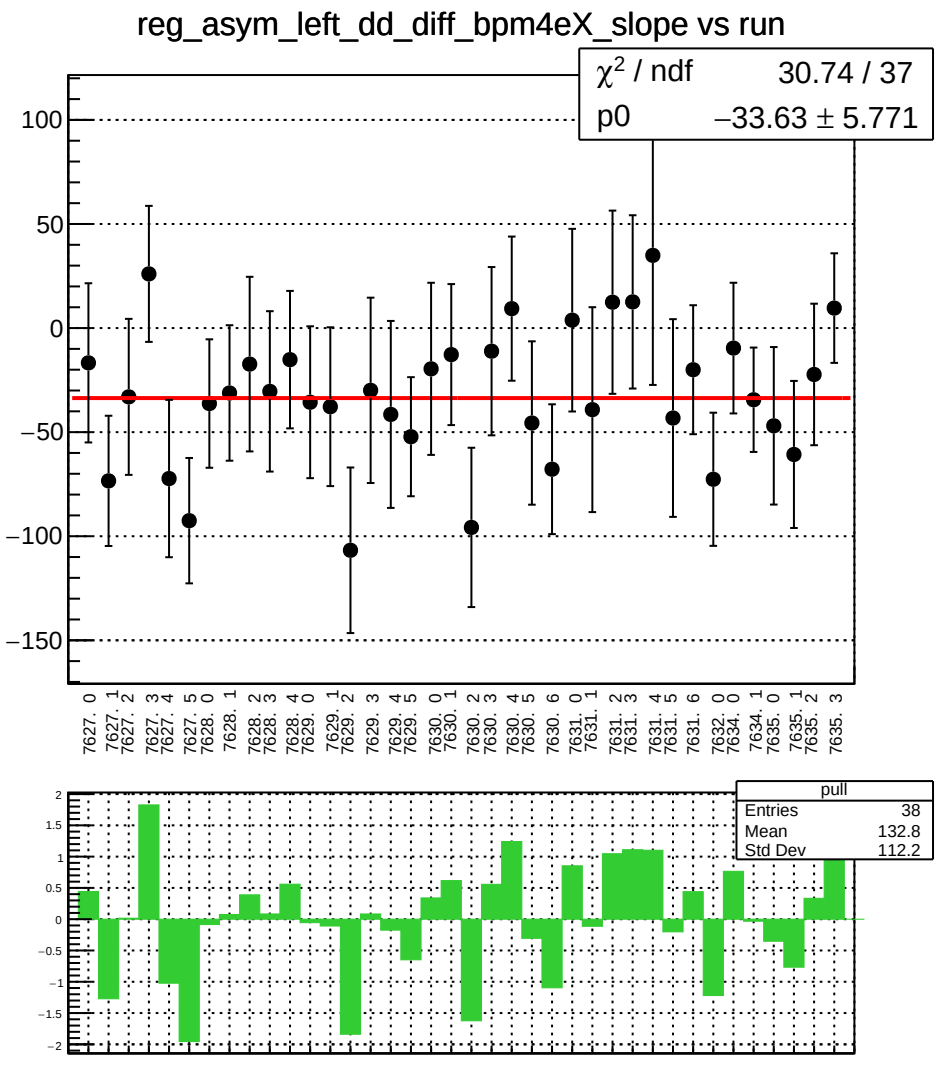

pull1D
Entries 38
Mean 0.00473
Std Dev 0.9366

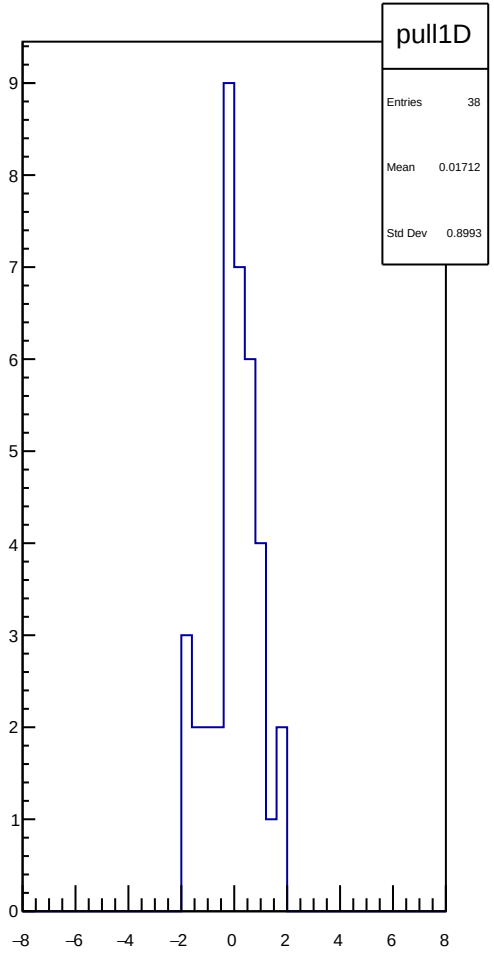

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 31.6 / 37
p0 7.751 ± 7.212
150
100
50
0
−50
−100
−150
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 107.1
Std Dev 87.12
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

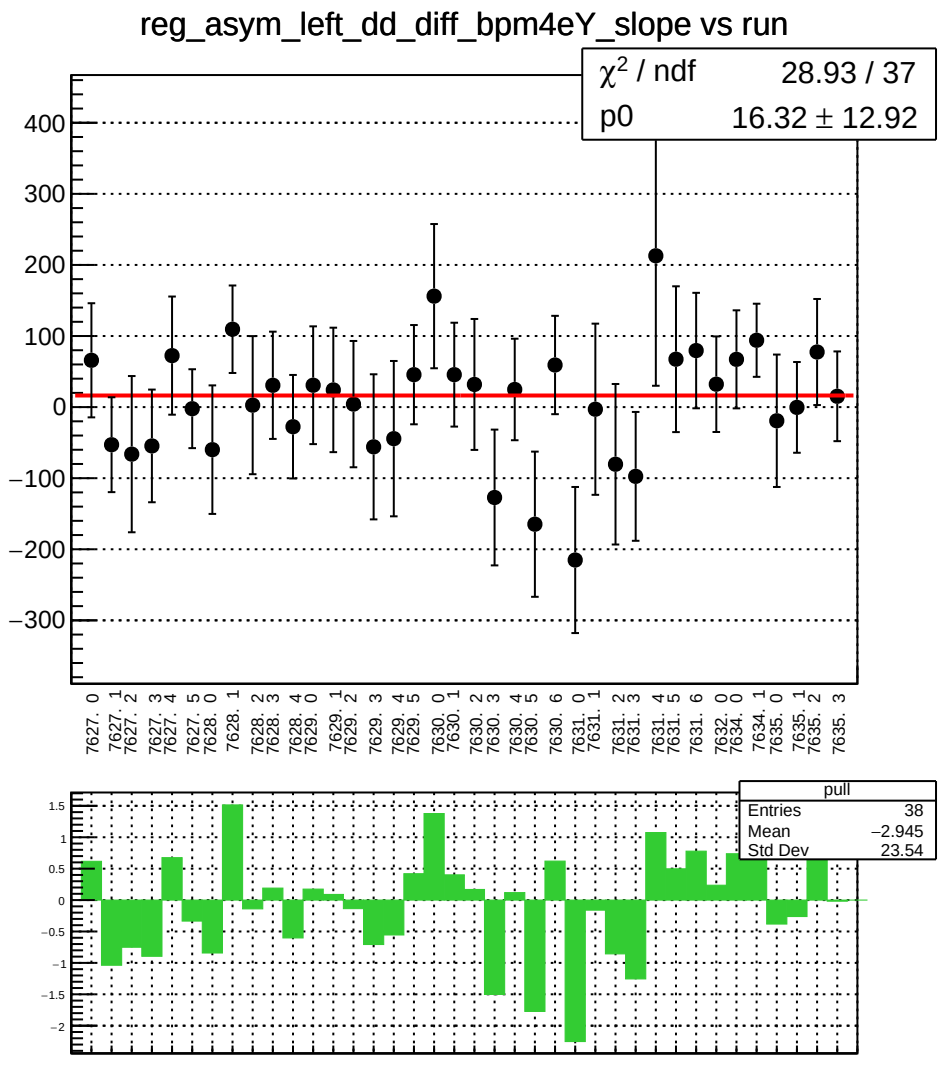

pull1D
Entries 38
Mean −0.02108
Std Dev 0.9116
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

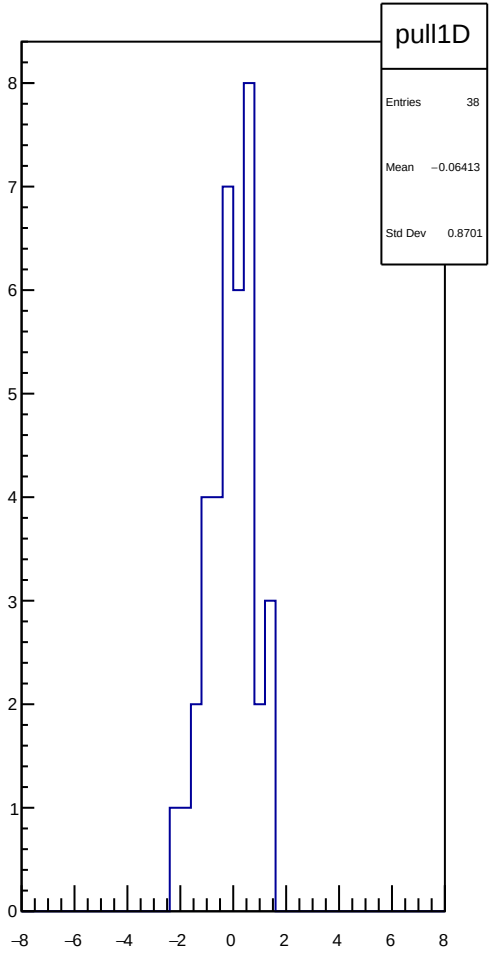

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 29.22 / 37
p0 −5.572 ± 8.807
200
100
0
−100
−200
−300
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −0.8583
Std Dev 21.46
2
1.5
1
0.5
0
−0.5
−1
−1.5

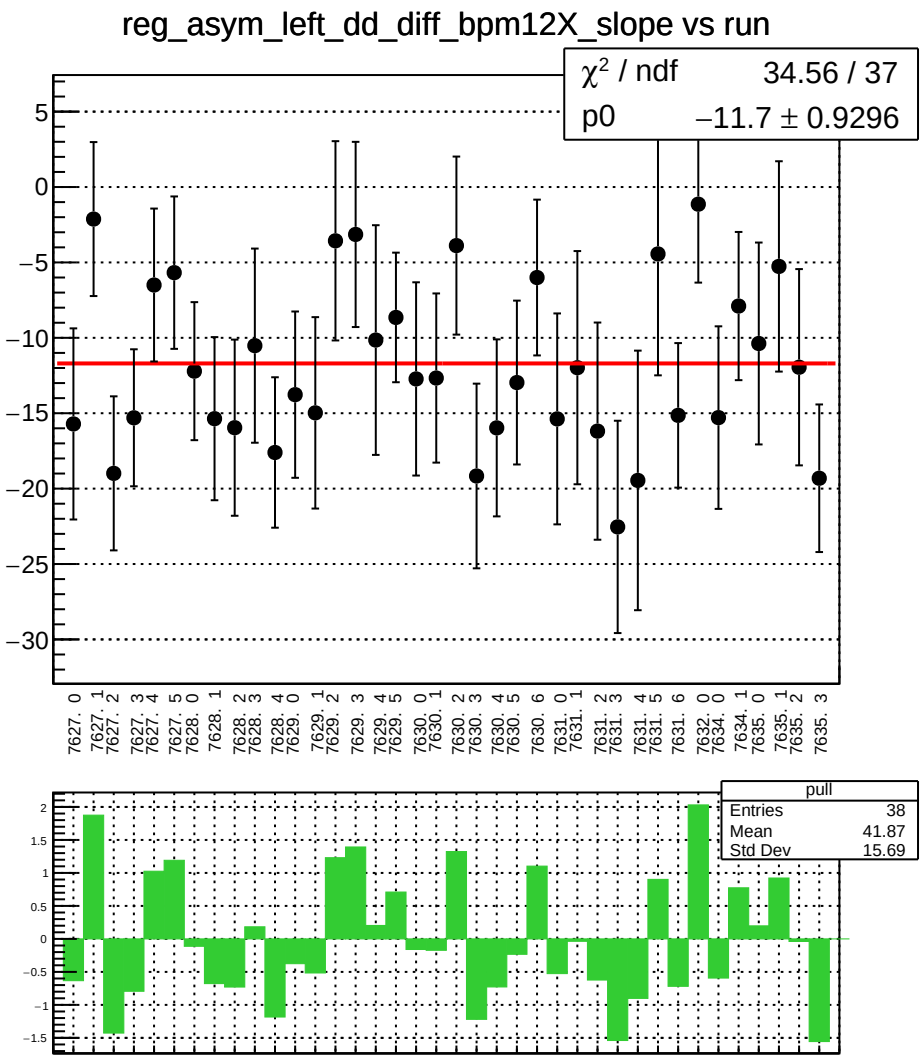

pull1D
Entries 38
Mean 0.06699
Std Dev 0.8744
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

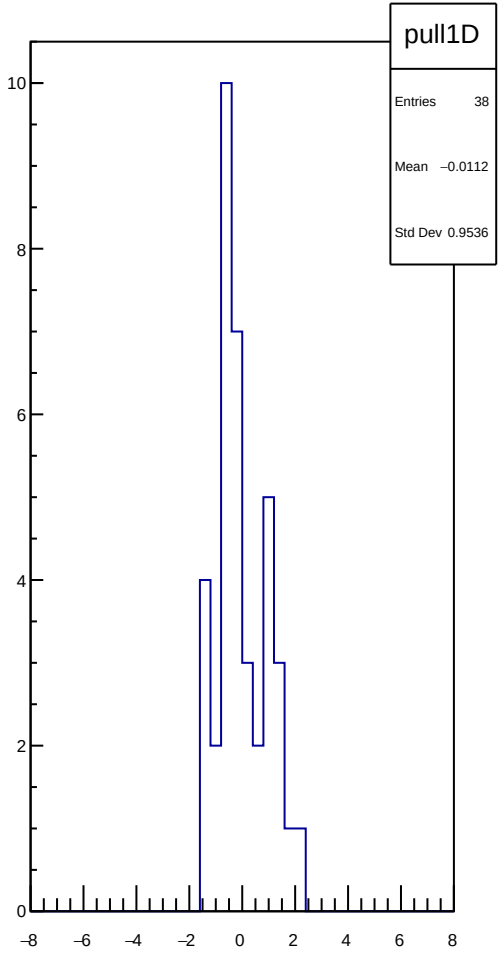

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 30.74 / 37
p0 −33.63 ± 5.771
100
50
0
−50
−100
−150
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 132.8
Std Dev 112.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

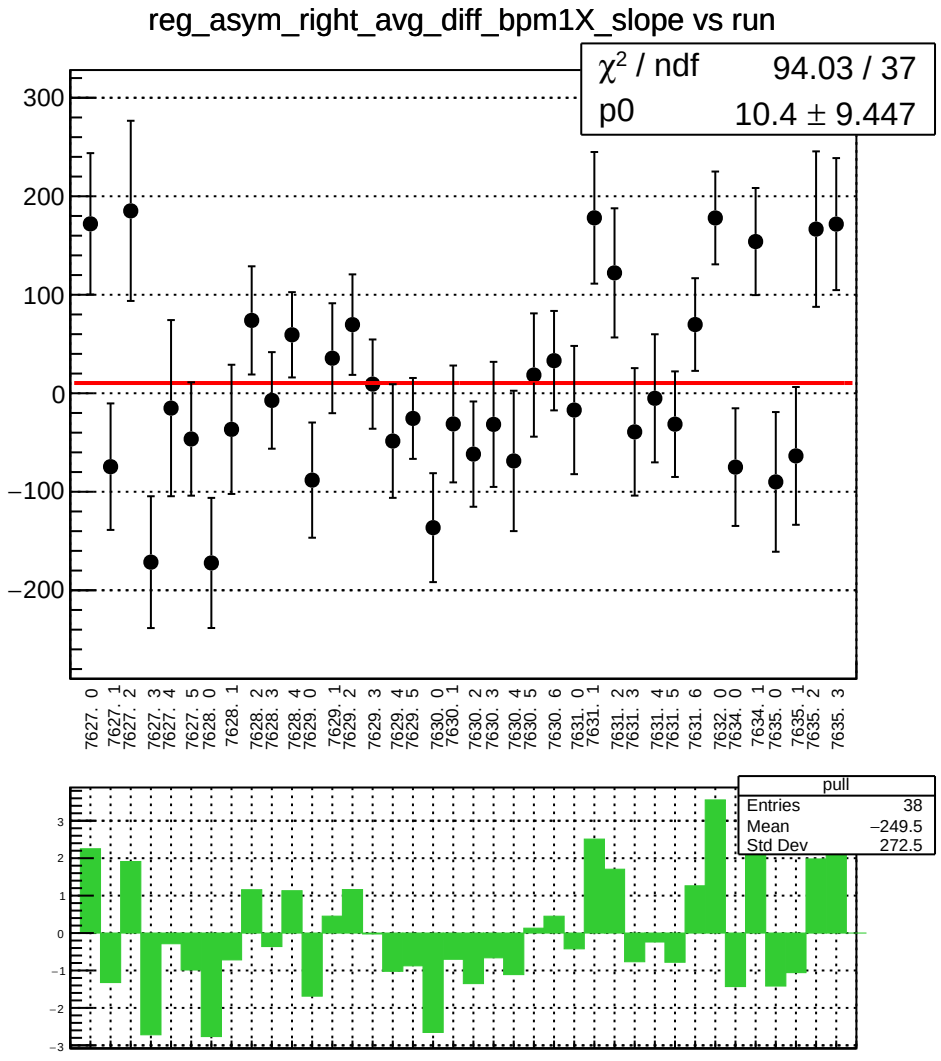

pull1D
Entries 38
Mean 0.01712
Std Dev 0.8993
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

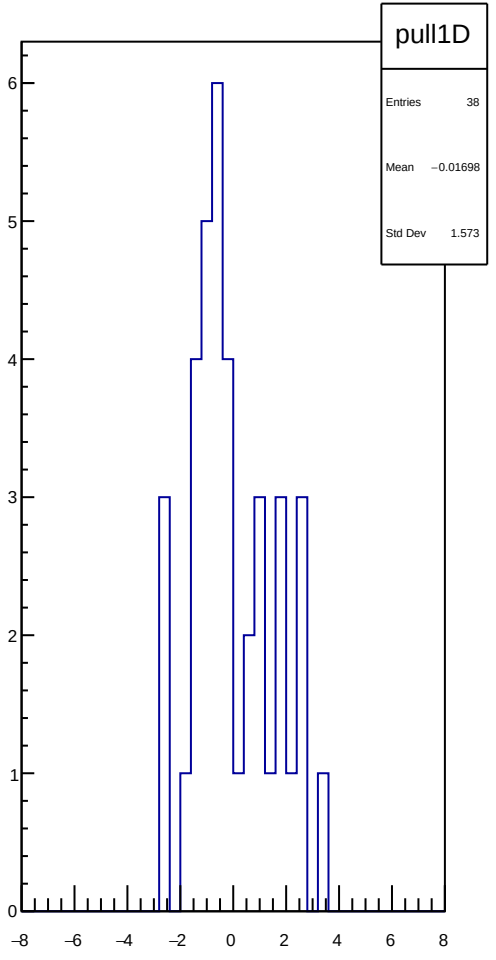

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 28.93 / 37
p0 16.32 ± 12.92
400
300
200
100
0
−100
−200
−300
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 4
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −2.945
Std Dev 23.54
1.5
1
0.5
0
−0.5
−1
−1.5
−2

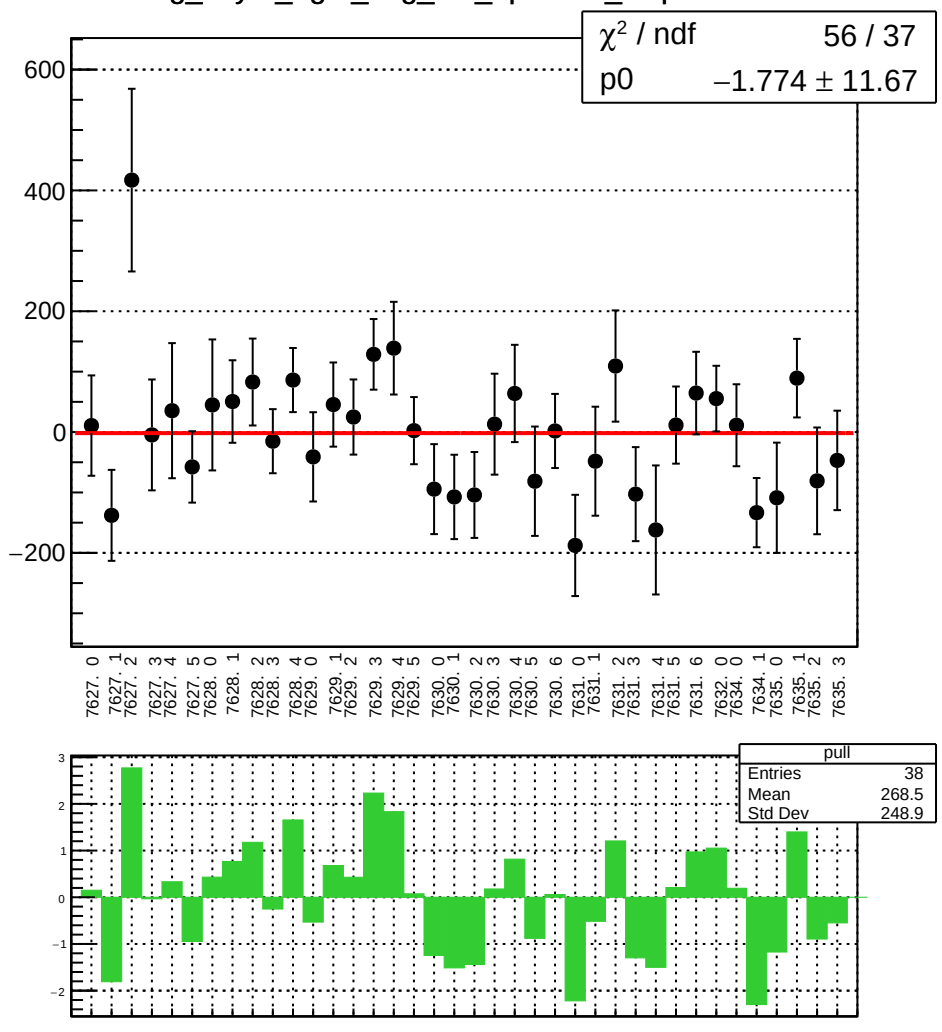

pull1D
Entries 38
Mean −0.06413
Std Dev 0.8701
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

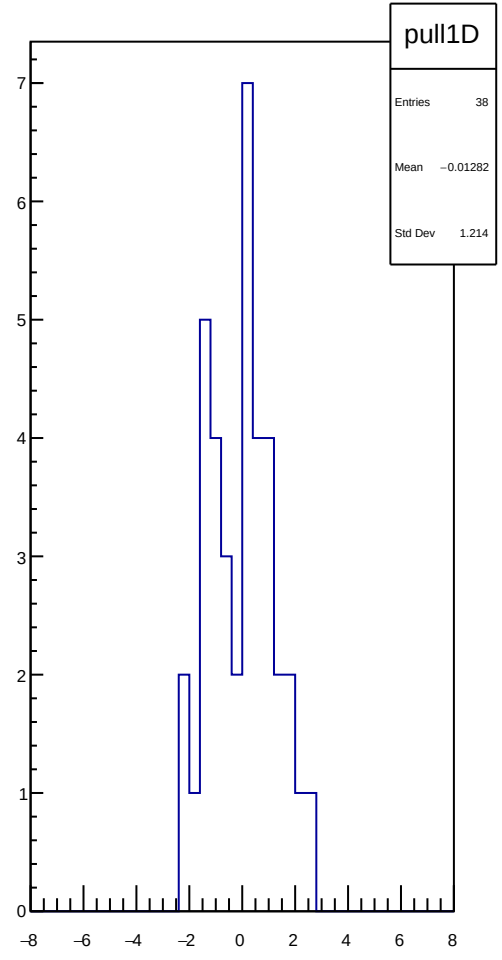

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 34.56 / 37
p0 −11.7 ± 0.9296
pull
Entries 38
Mean 41.87
Std Dev 15.69

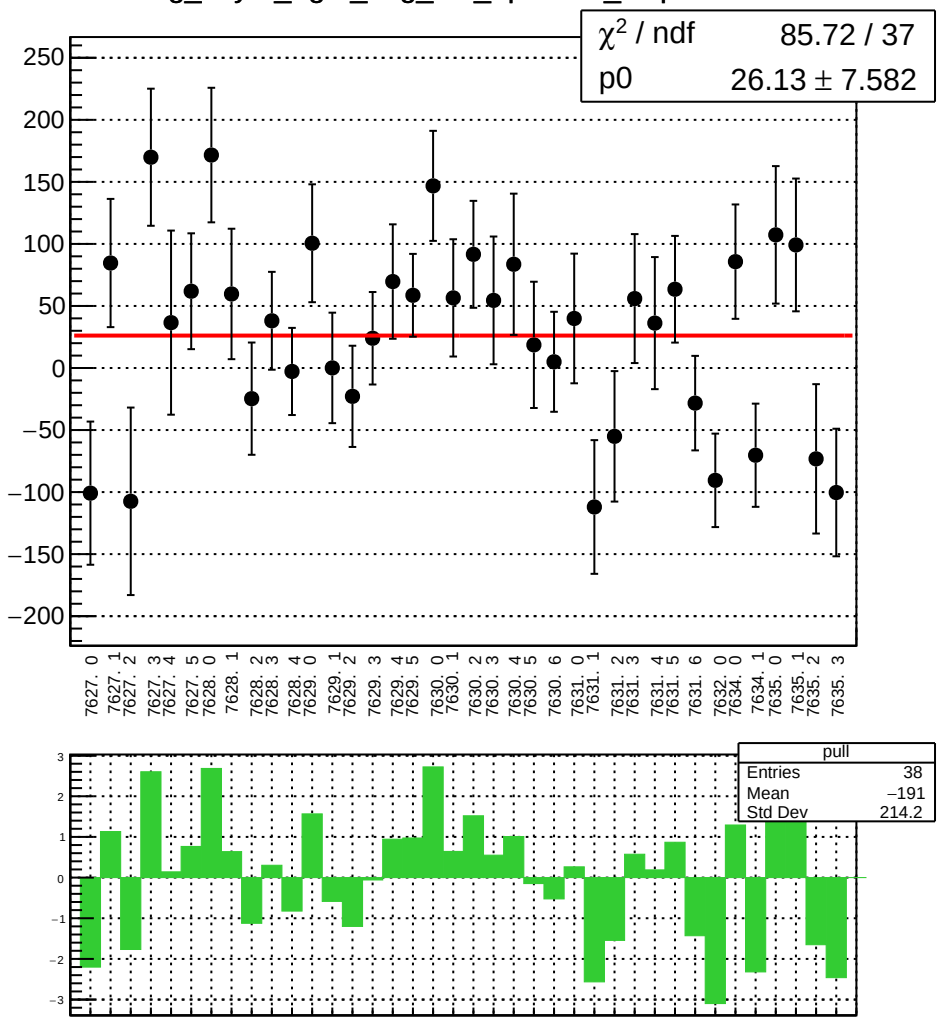

pull1D
Entries 38
Mean −0.0112
Std Dev 0.9536

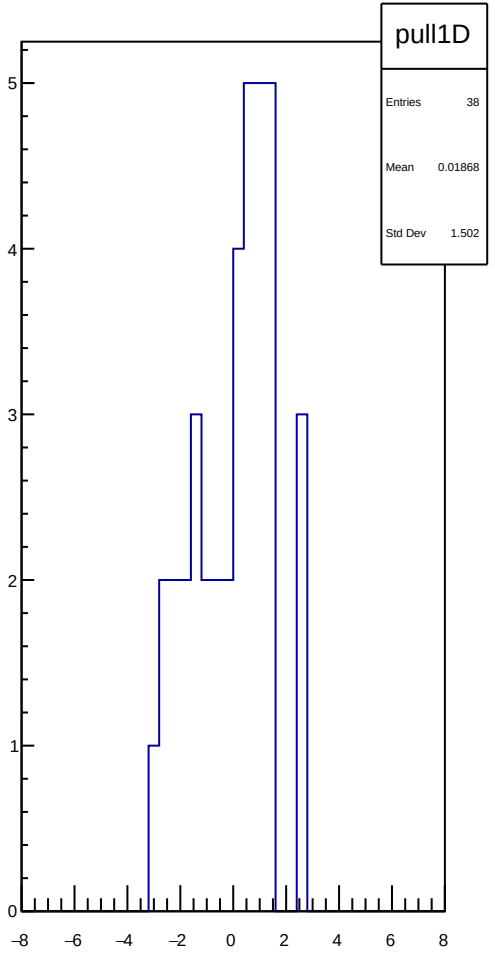

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 94.03 / 37
p0 10.4 ± 9.447
300
200
100
0
−100
−200
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −249.5
Std Dev 272.5
3
2
1
0
−1
−2
−3

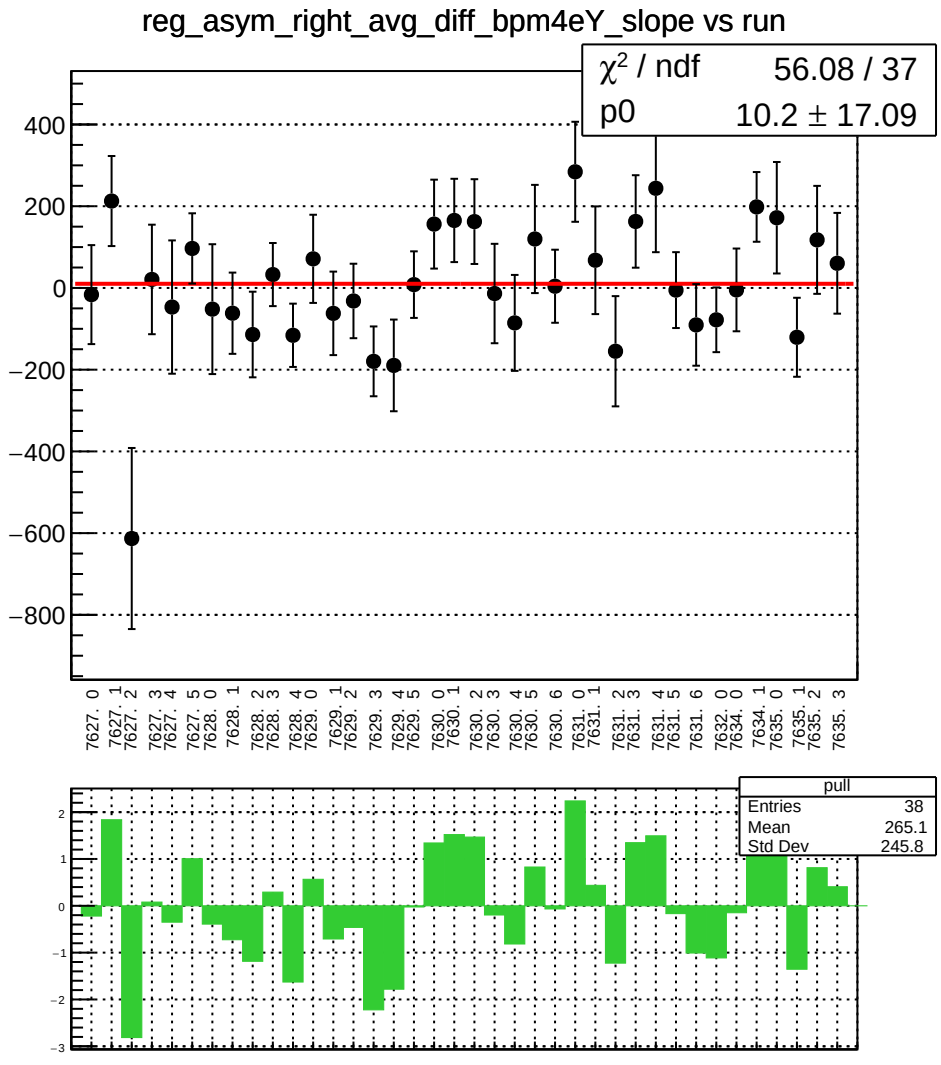

pull1D
Entries 38
Mean −0.01698
Std Dev 1.573
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

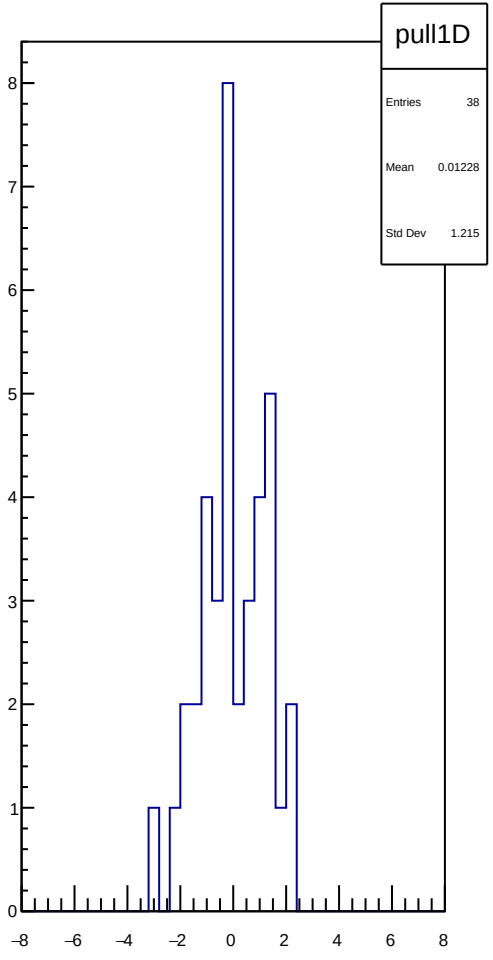

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 56 / 37
p0 −1.774 ± 11.67
600
400
200
0
−200
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 268.5
Std Dev 248.9
3
2
1
0
−1
−2

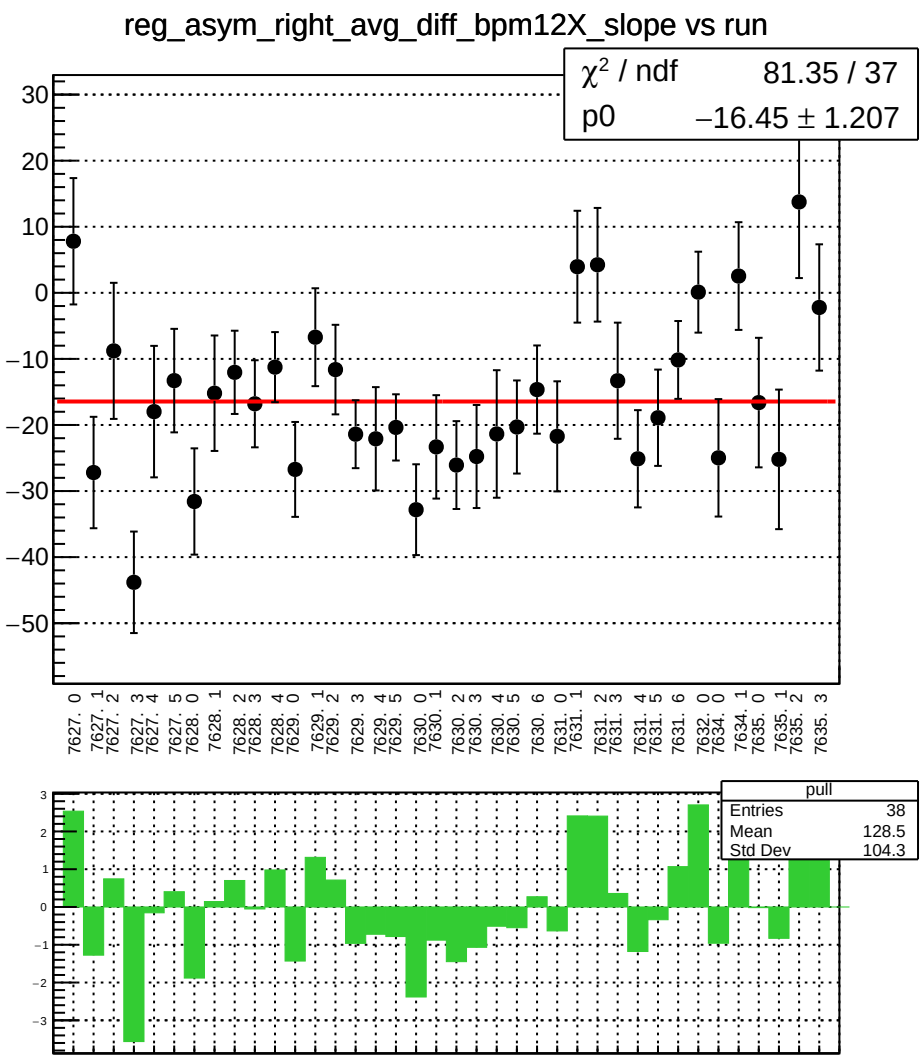

pull1D
Entries 38
Mean −0.01282
Std Dev 1.214
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

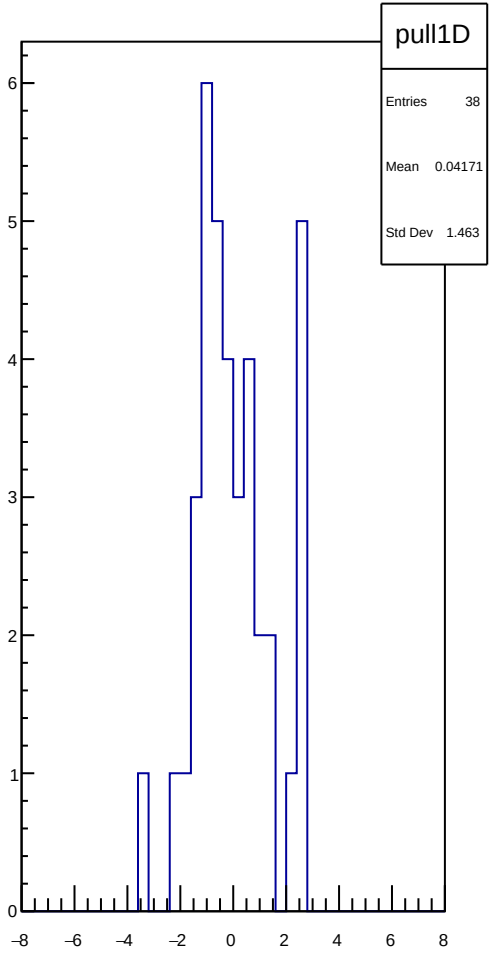

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 85.72 / 37
p0 26.13 ± 7.582
pull
Entries 38
Mean −191
Std Dev 214.2

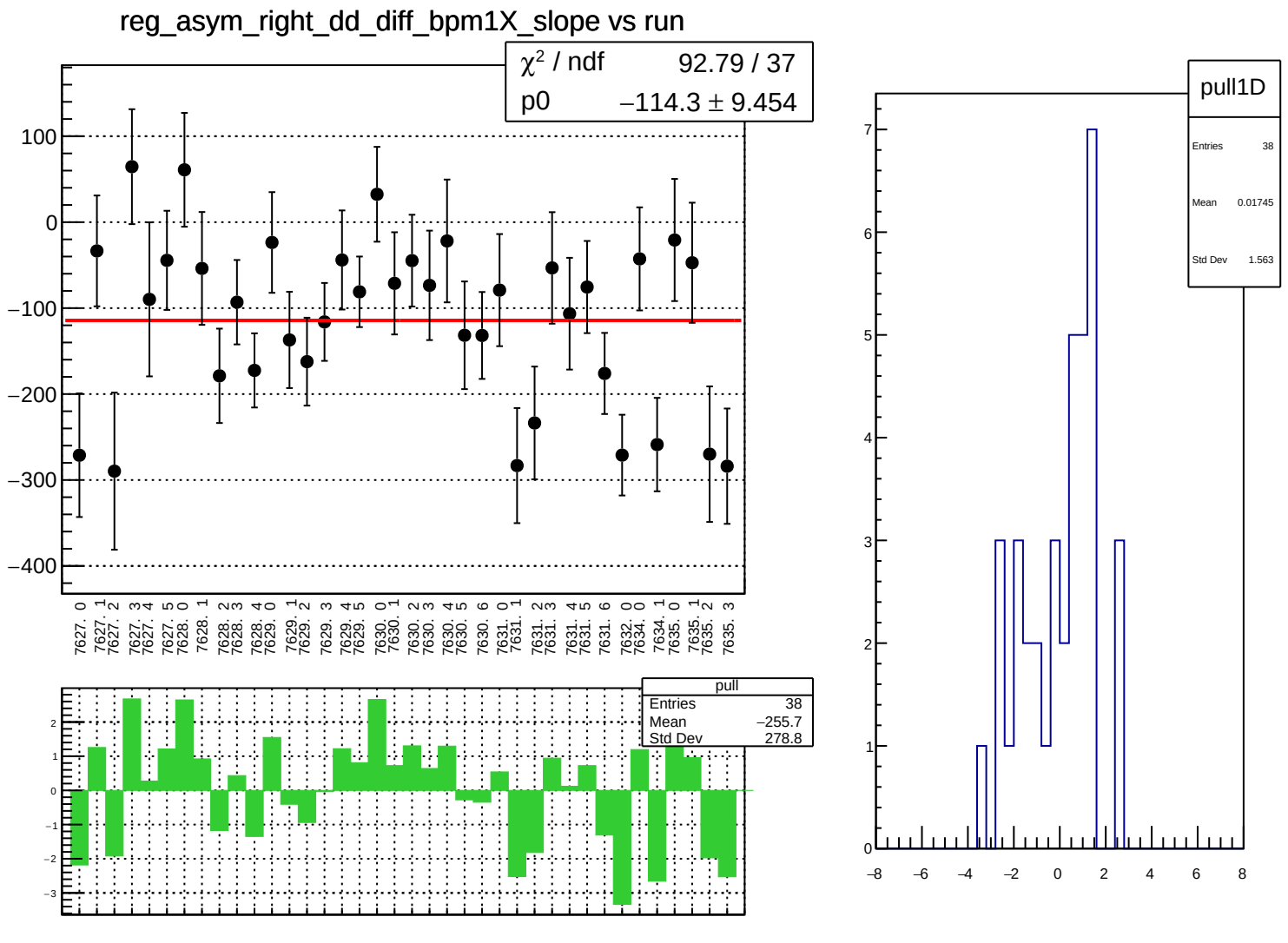

pull1D
Entries 38
Mean 0.01868
Std Dev 1.502

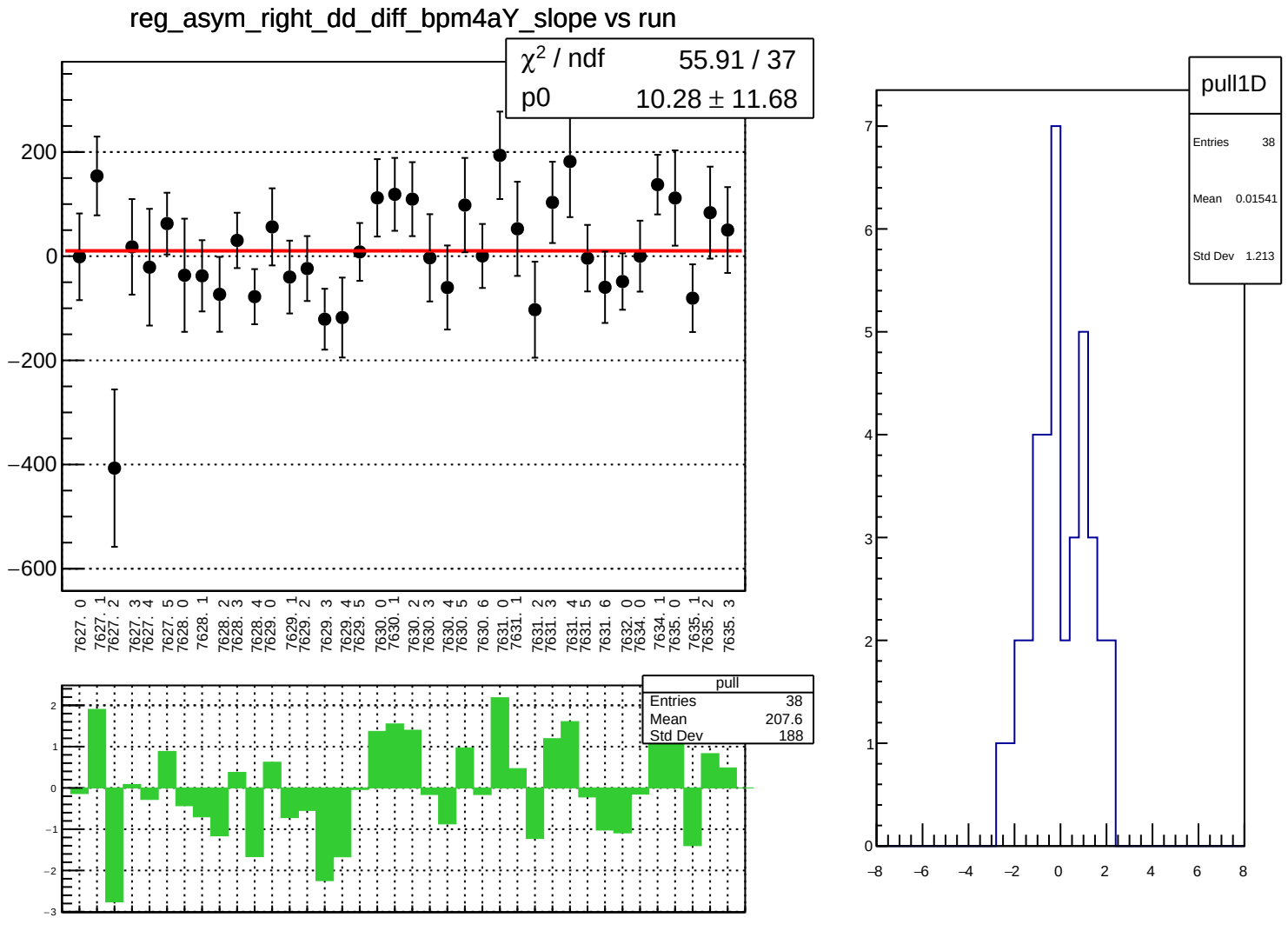

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 56.08 / 37
p0 10.2 ± 17.09
400
200
0
−200
−400
−600
−800
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 4
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 265.1
Std Dev 245.8
2
1
0
−1
−2
−3

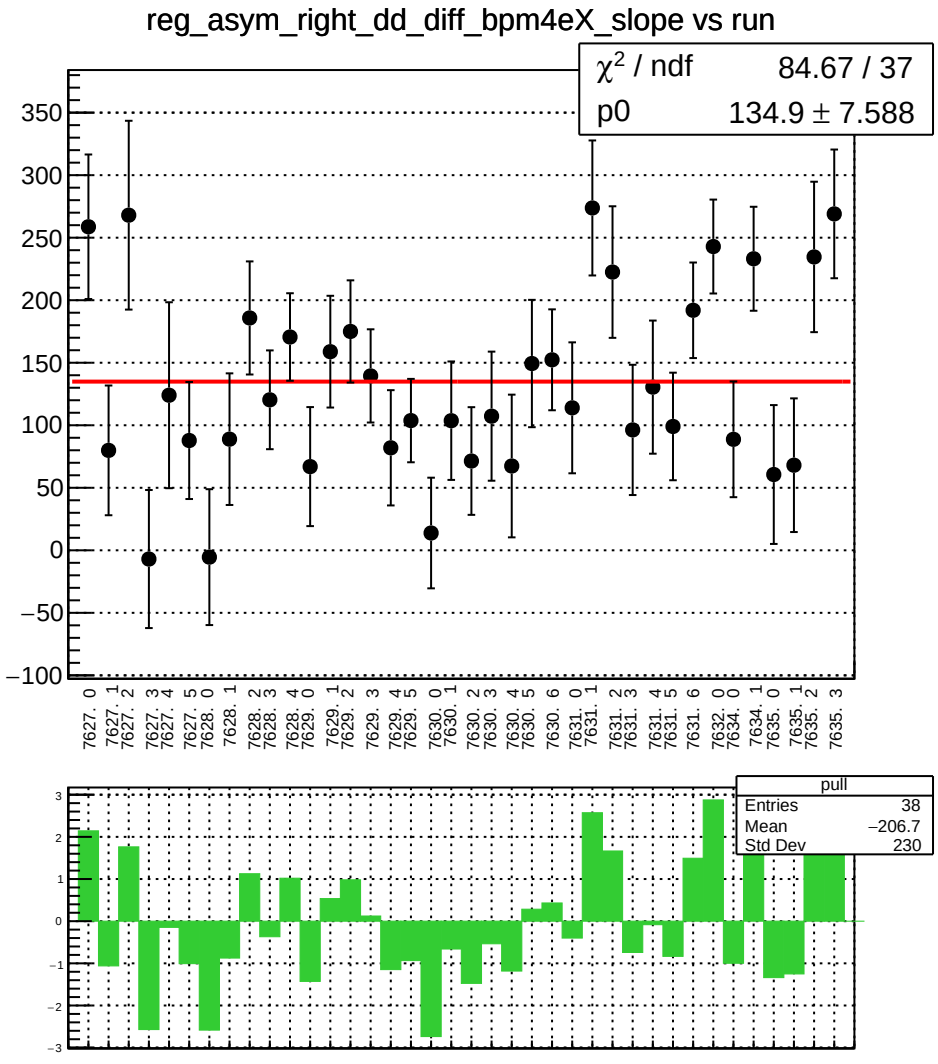

pull1D
Entries 38
Mean 0.01228
Std Dev 1.215
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

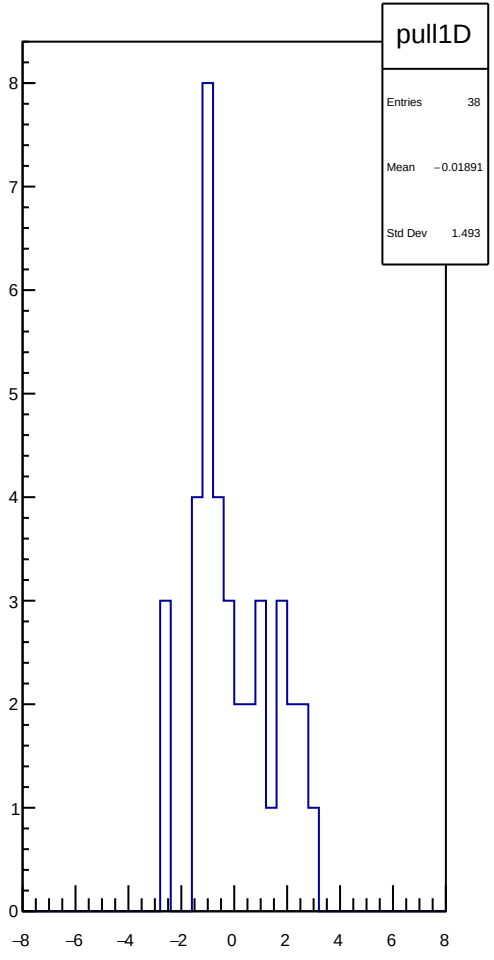

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 81.35 / 37
p0 −16.45 ± 1.207
pull
Entries 38
Mean 128.5
Std Dev 104.3

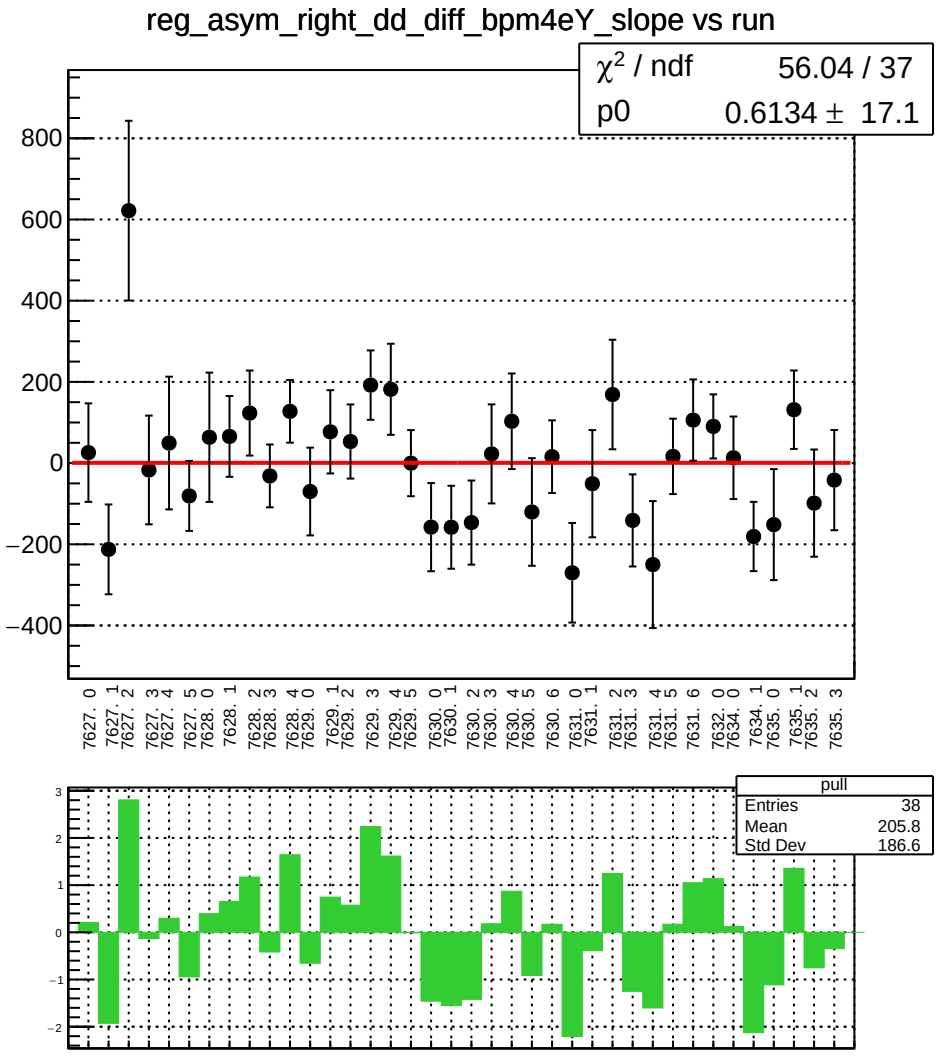

pull1D
Entries 38
Mean 0.04171
Std Dev 1.463

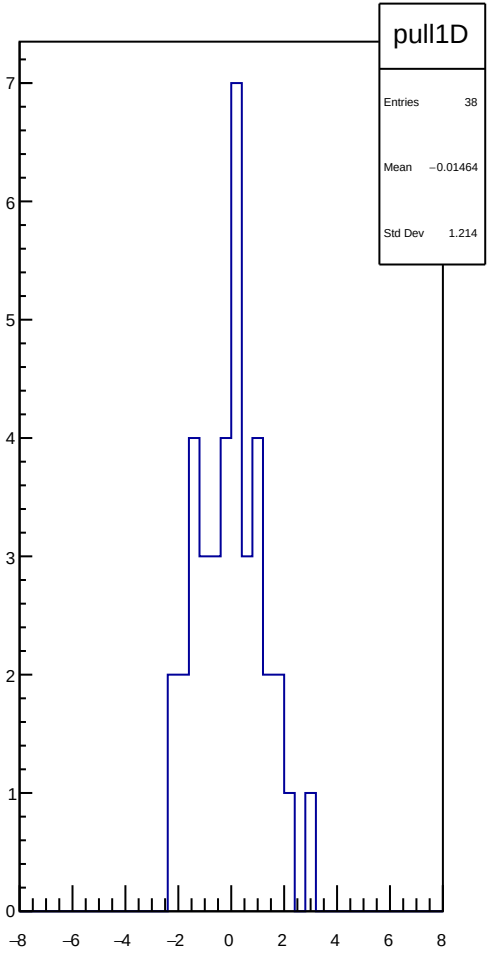

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 92.79 / 37
p0 −114.3 ± 9.454
100
0
−100
−200
−300
−400
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 4
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −255.7
Std Dev 278.8
2
1
0
−1
−2
−3
pull1D
Entries 38
Mean 0.01745
Std Dev 1.563
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

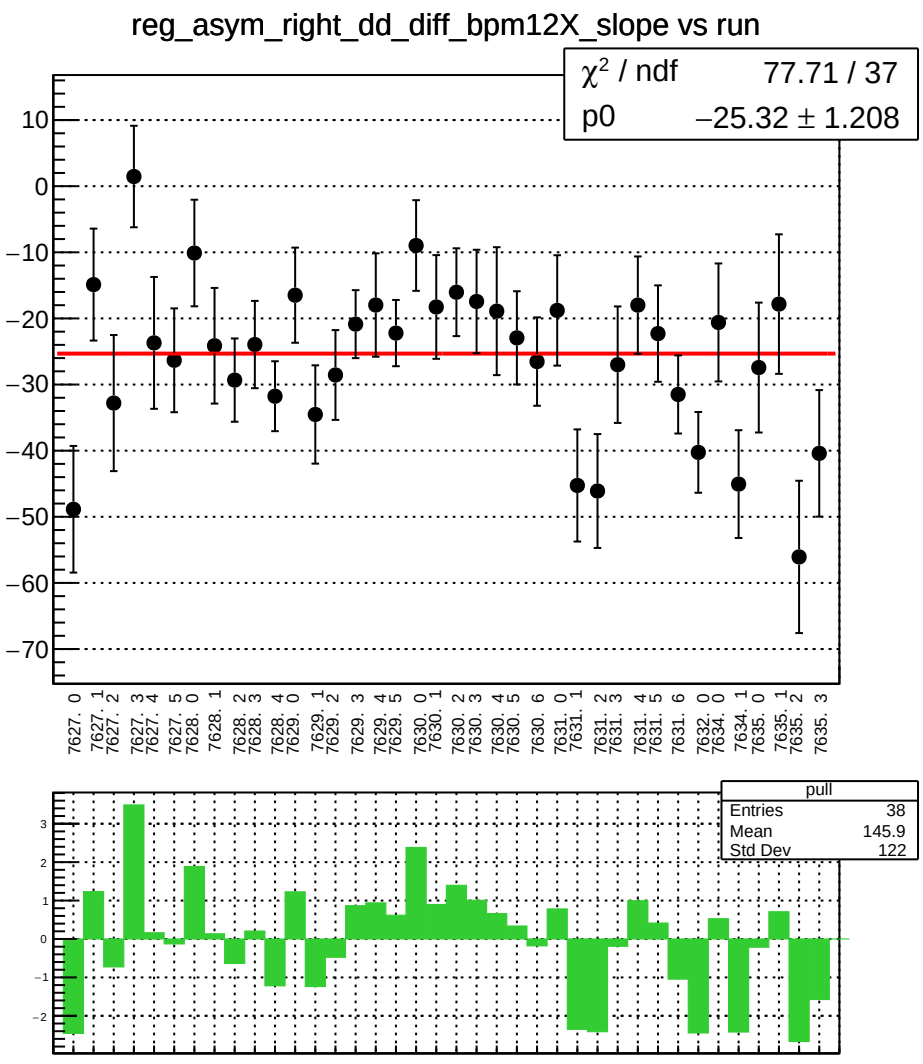

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 55.91 / 37
p0 10.28 ± 11.68
200
0
−200
−400
−600
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 207.6
Std Dev 188
2
1
0
−1
−2
−3
pull1D
Entries 38
Mean 0.01541
Std Dev 1.213
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

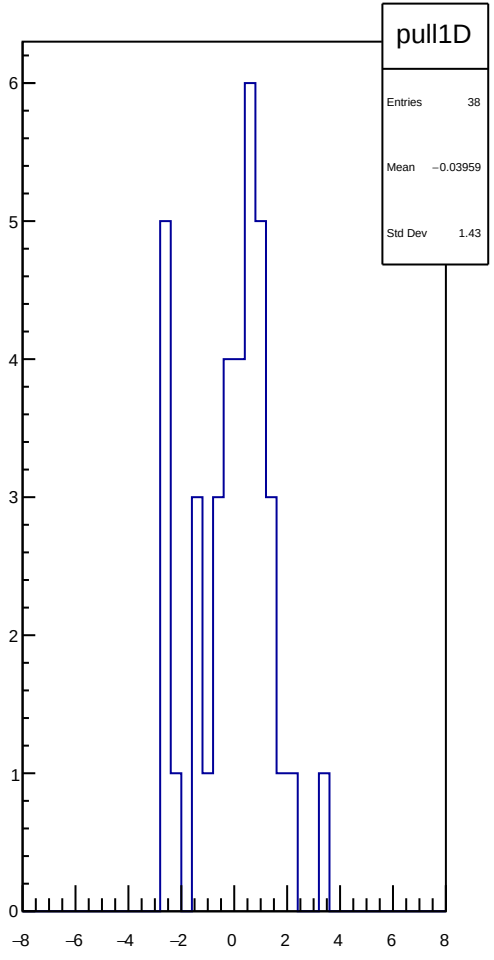

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 84.67 / 37
p0 134.9 ± 7.588
pull
Entries 38
Mean −206.7
Std Dev 230

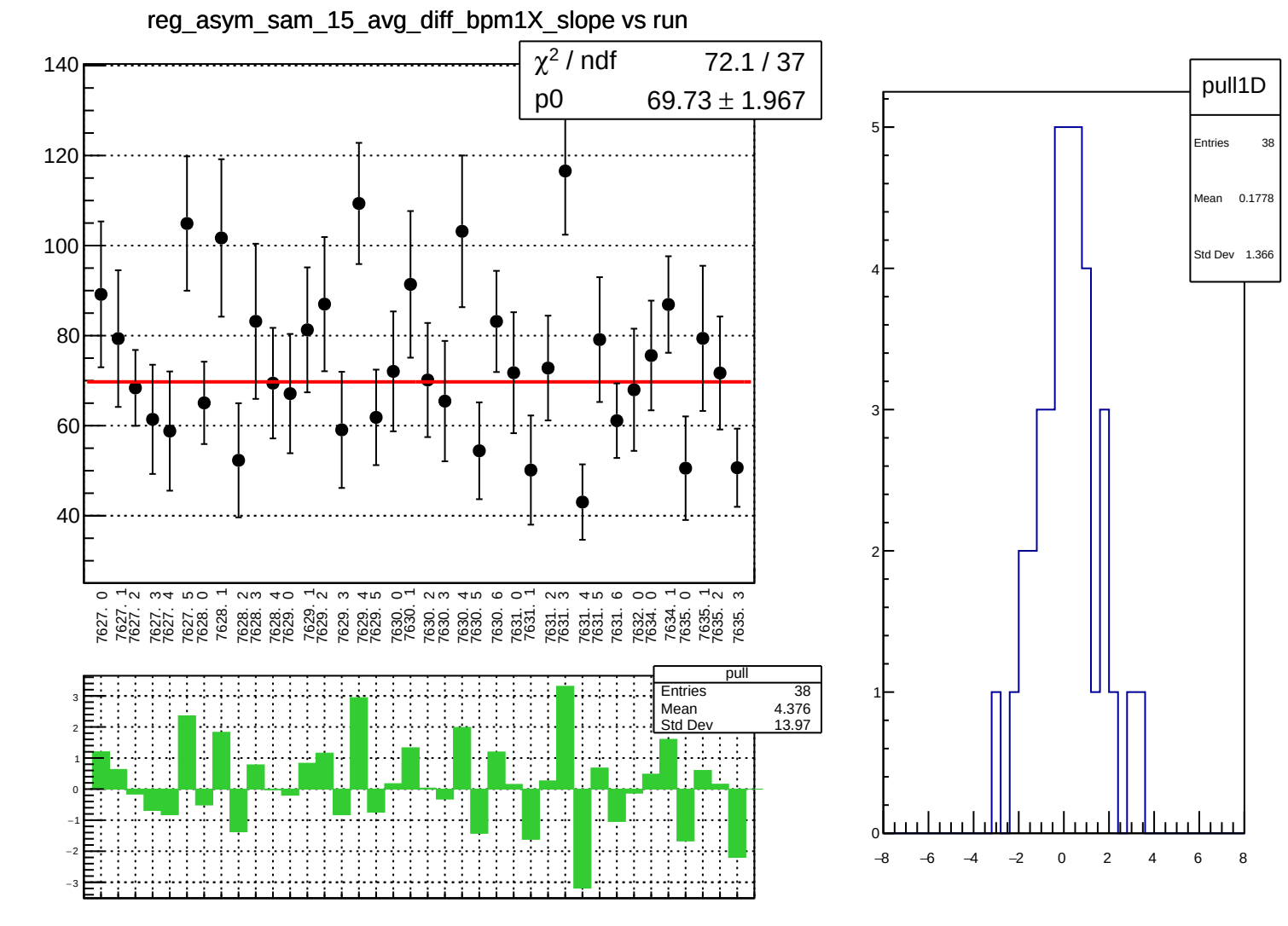

pull1D
Entries 38
Mean −0.01891
Std Dev 1.493

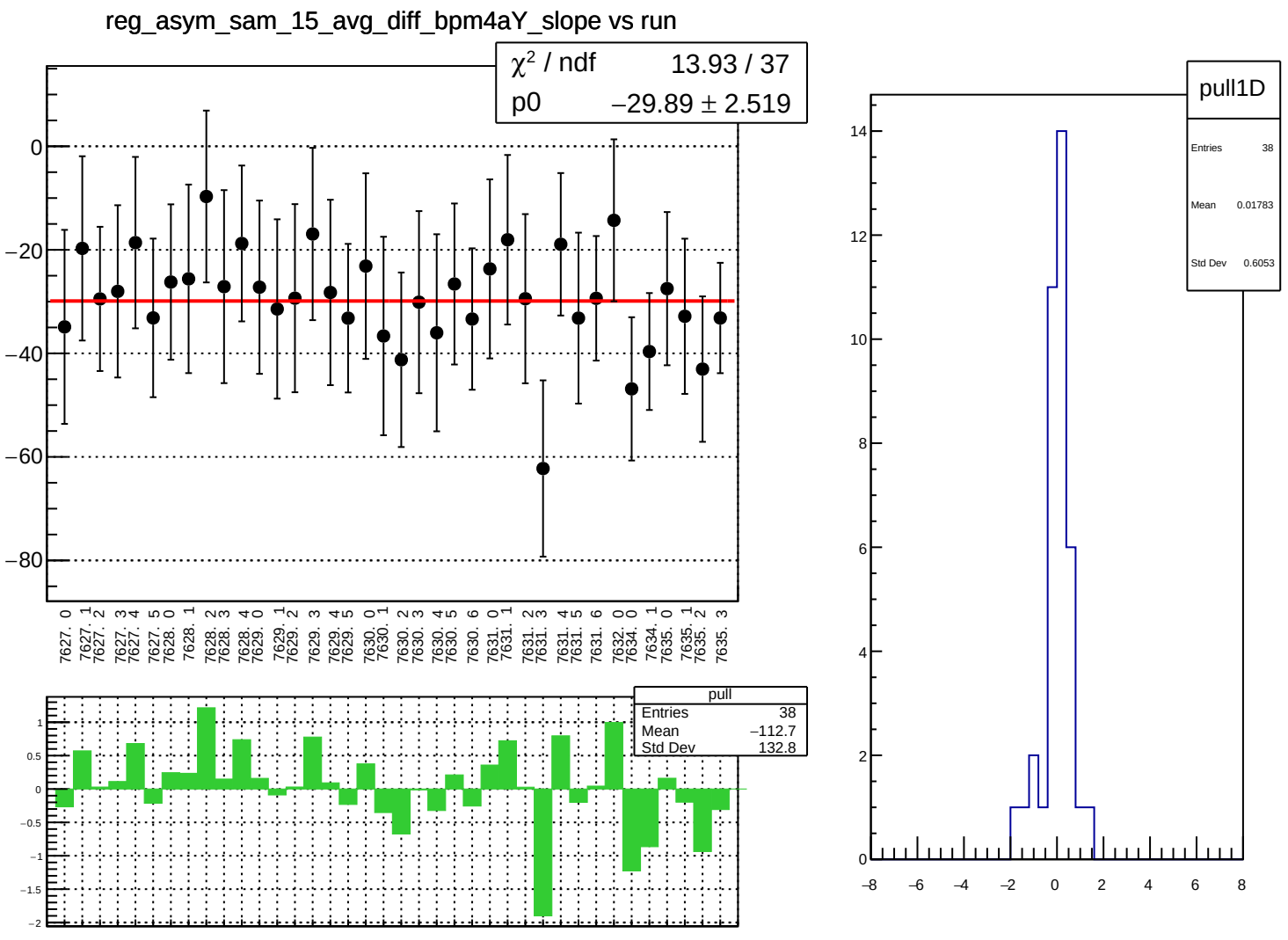

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 56.04 / 37
p0 0.6134 ± 17.1
800
600
400
200
0
−200
−400
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 205.8
Std Dev 186.6
3
2
1
0
−1
−2

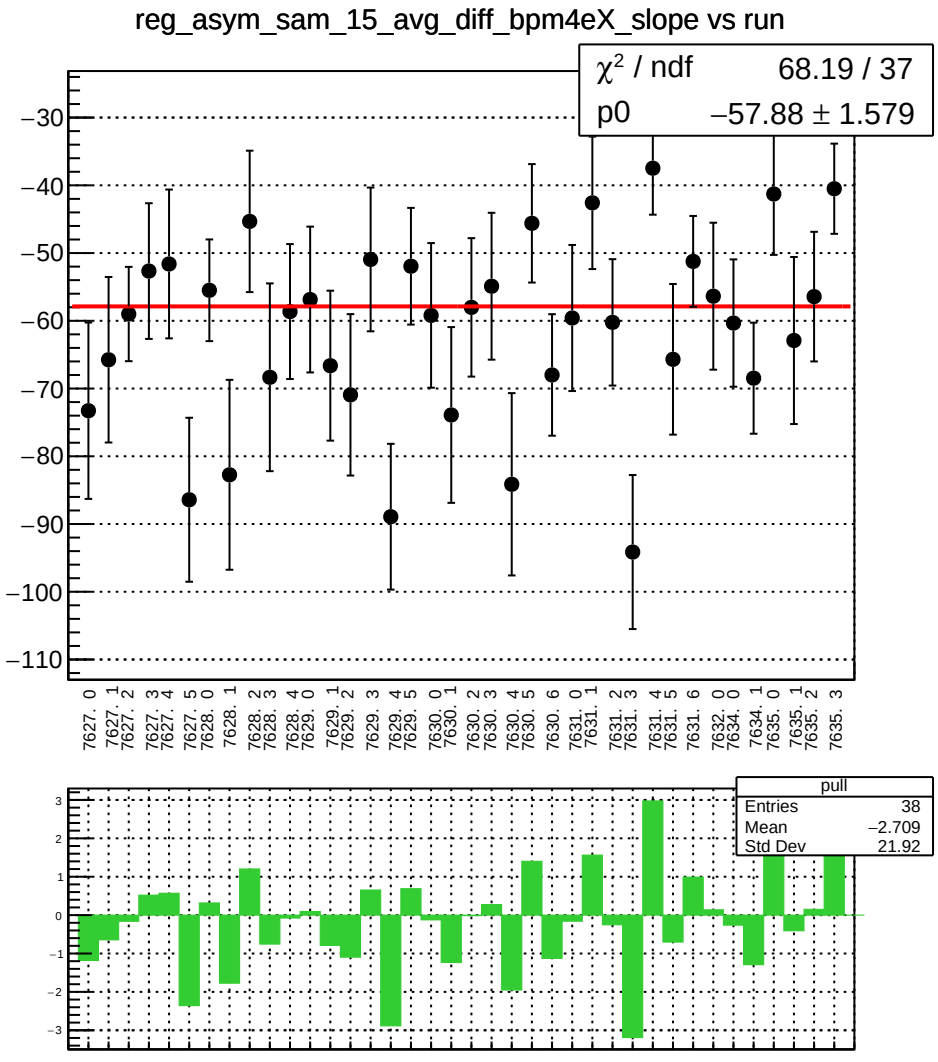

pull1D
Entries 38
Mean −0.01464
Std Dev 1.214
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

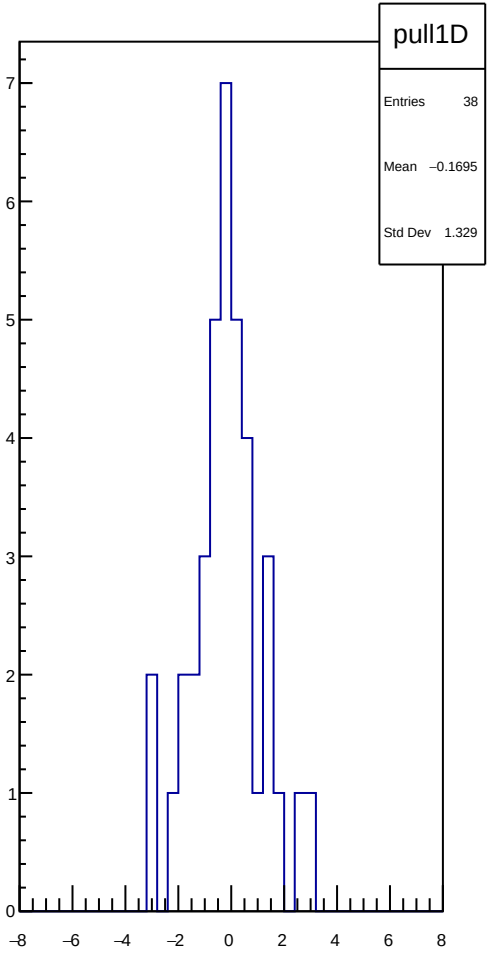

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 77.71 / 37
p0 −25.32 ± 1.208
pull
Entries 38
Mean 145.9
Std Dev 122

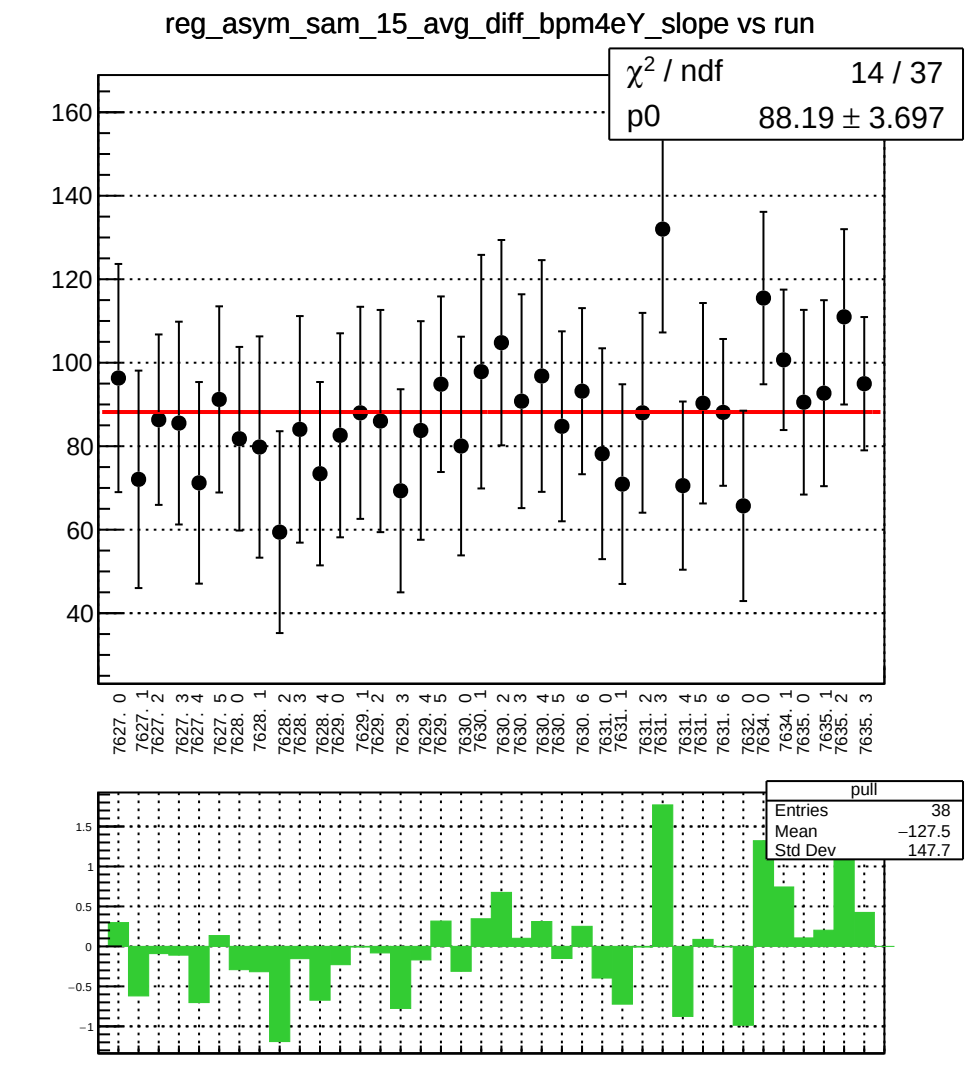

pull1D
Entries 38
Mean −0.03959
Std Dev 1.43

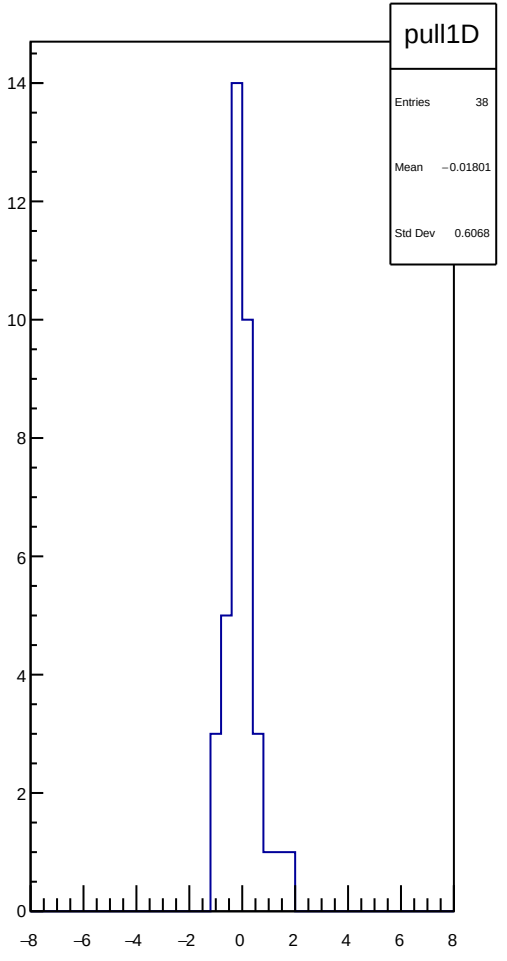

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 72.1 / 37
p0 69.73 ± 1.967
140
120
100
80
60
40
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 4
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 4.376
Std Dev 13.97
3
2
1
0
−1
−2
−3
pull1D
Entries 38
Mean 0.1778
Std Dev 1.366
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

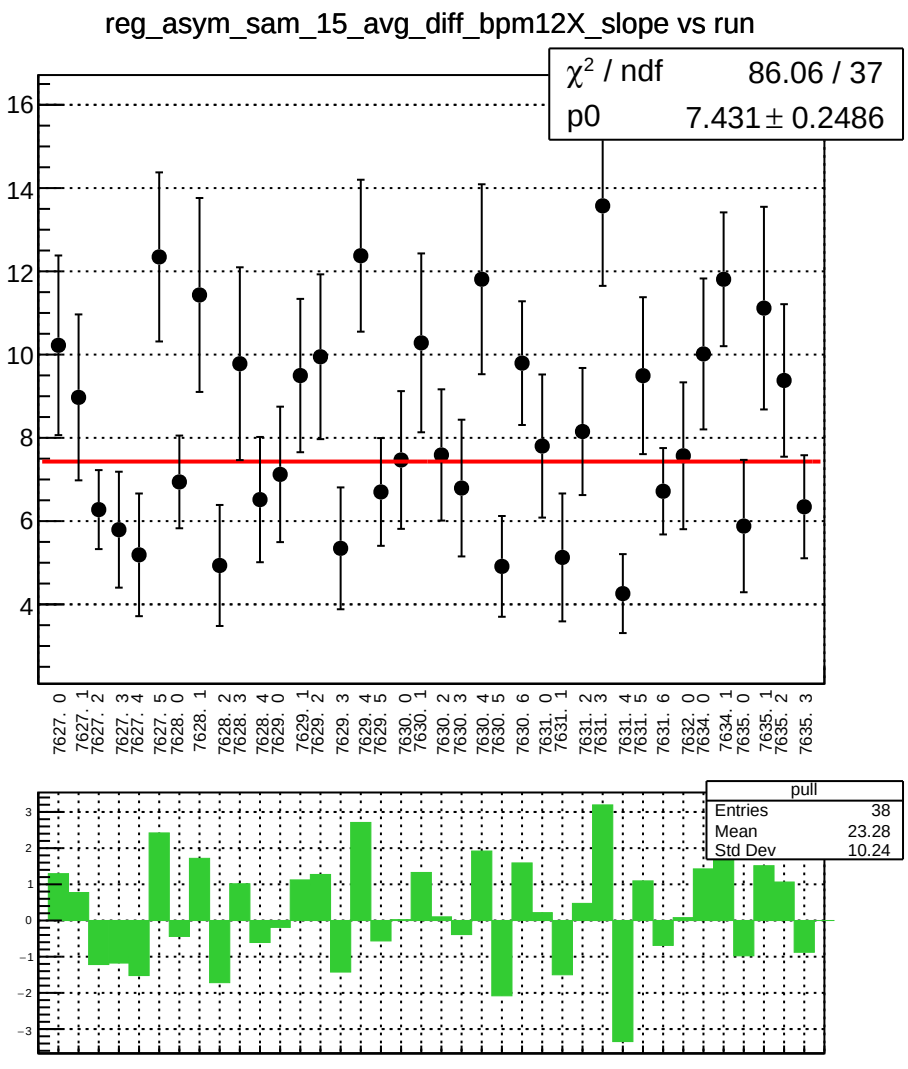

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 13.93 / 37
p0 −29.89 ± 2.519
0
−20
−40
−60
−80
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −112.7
Std Dev 132.8
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 38
Mean 0.01783
Std Dev 0.6053
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

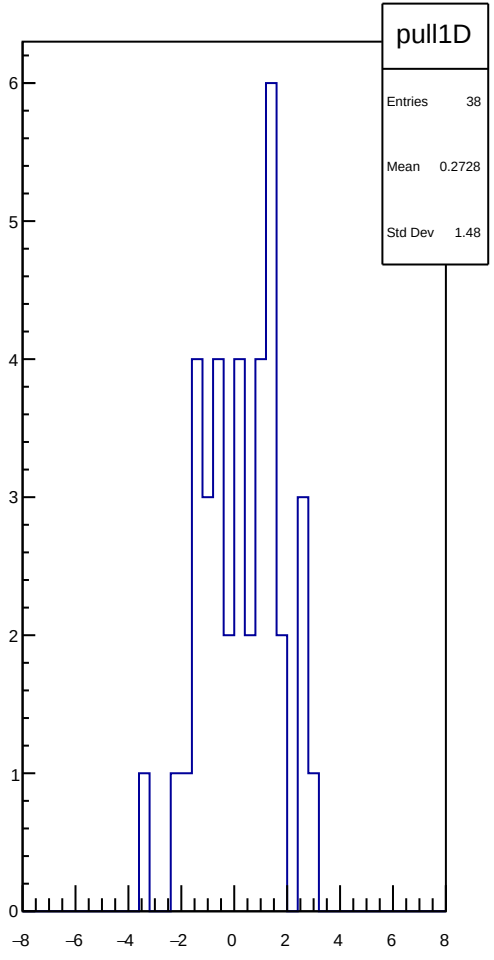

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 68.19 / 37
p0 −57.88 ± 1.579
pull
Entries 38
Mean −2.709
Std Dev 21.92

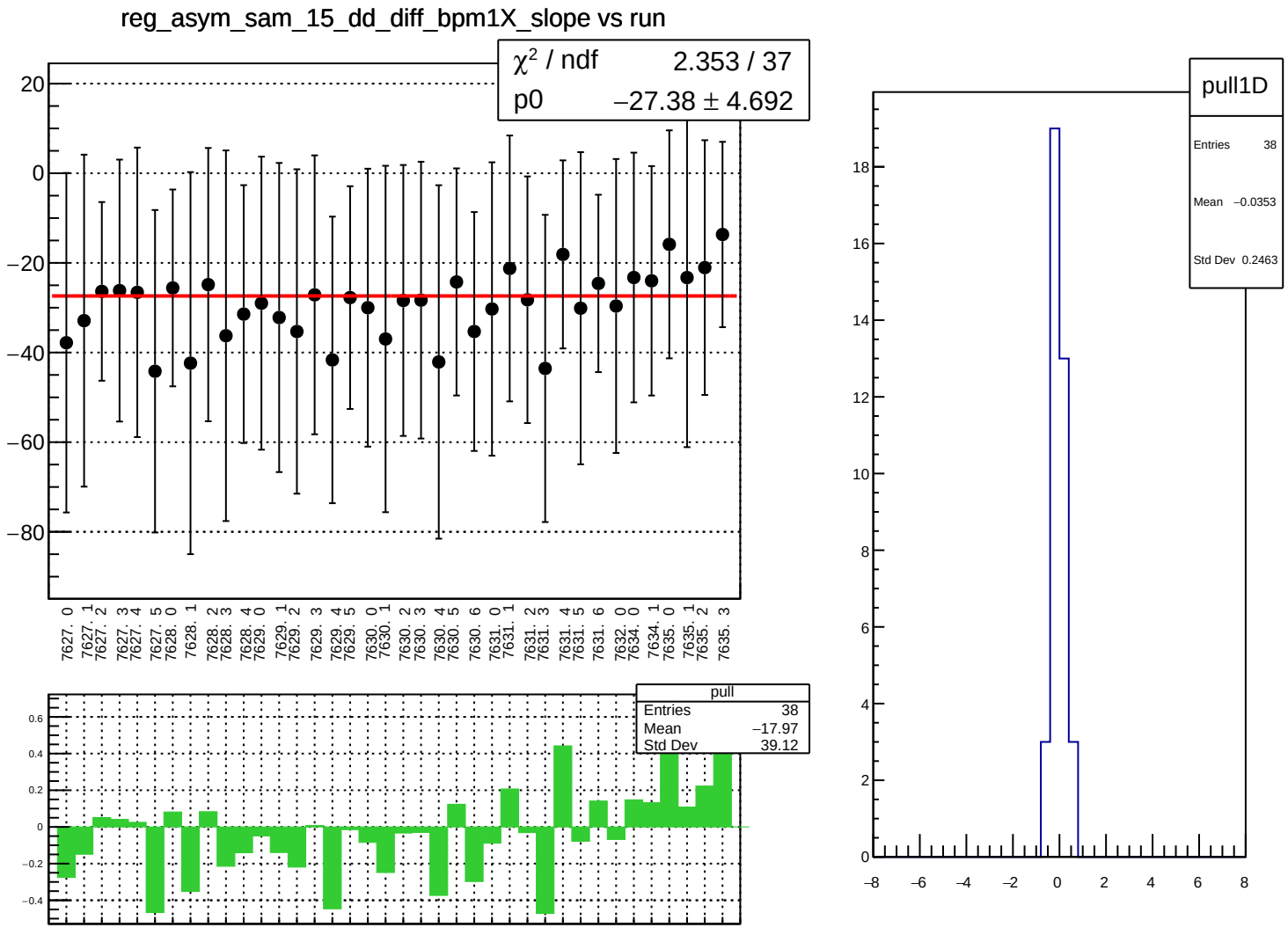

pull1D
Entries 38
Mean −0.1695
Std Dev 1.329

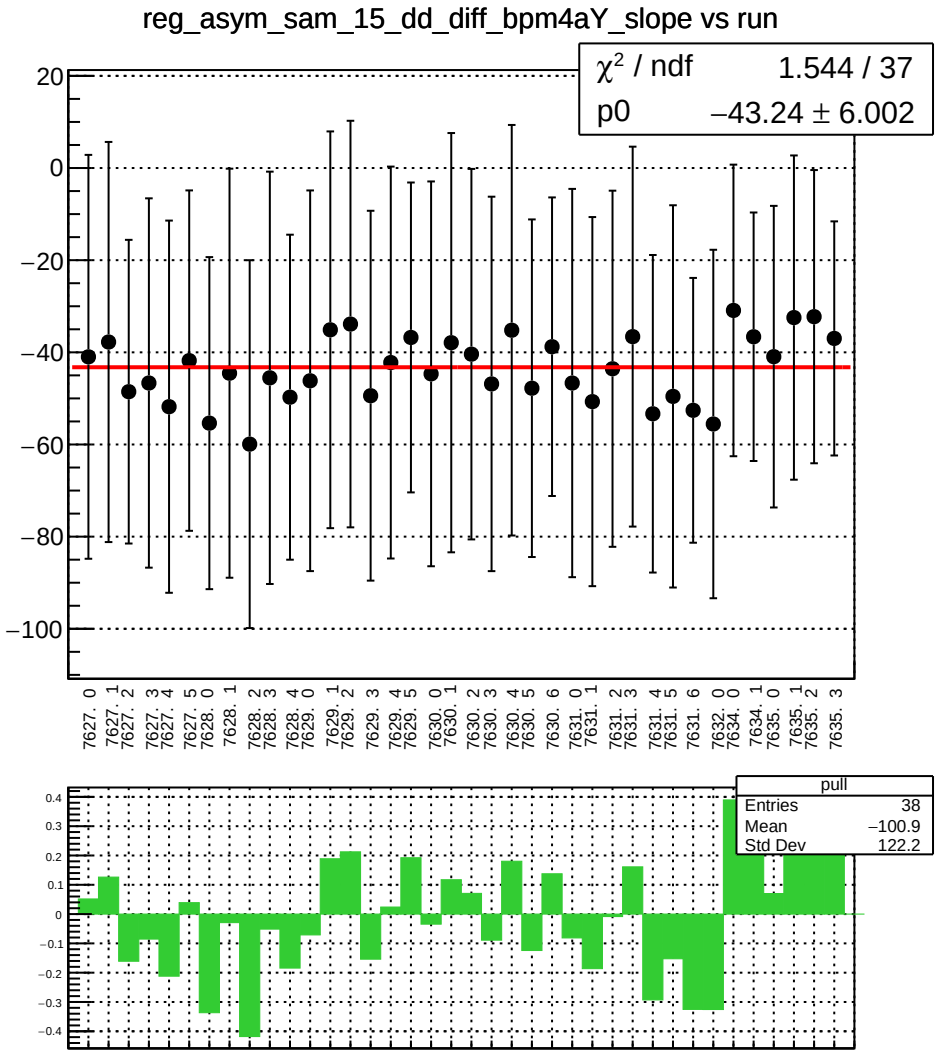

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 14 / 37
p0 88.19 ± 3.697
160
140
120
100
80
60
40
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −127.5
Std Dev 147.7
1.5
1
0.5
0
−0.5
−1

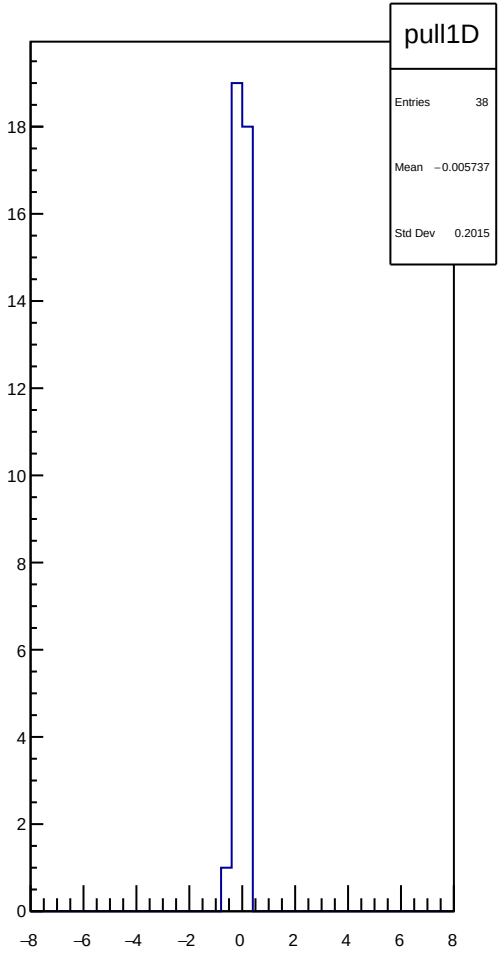

pull1D
Entries 38
Mean −0.01801
Std Dev 0.6068
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

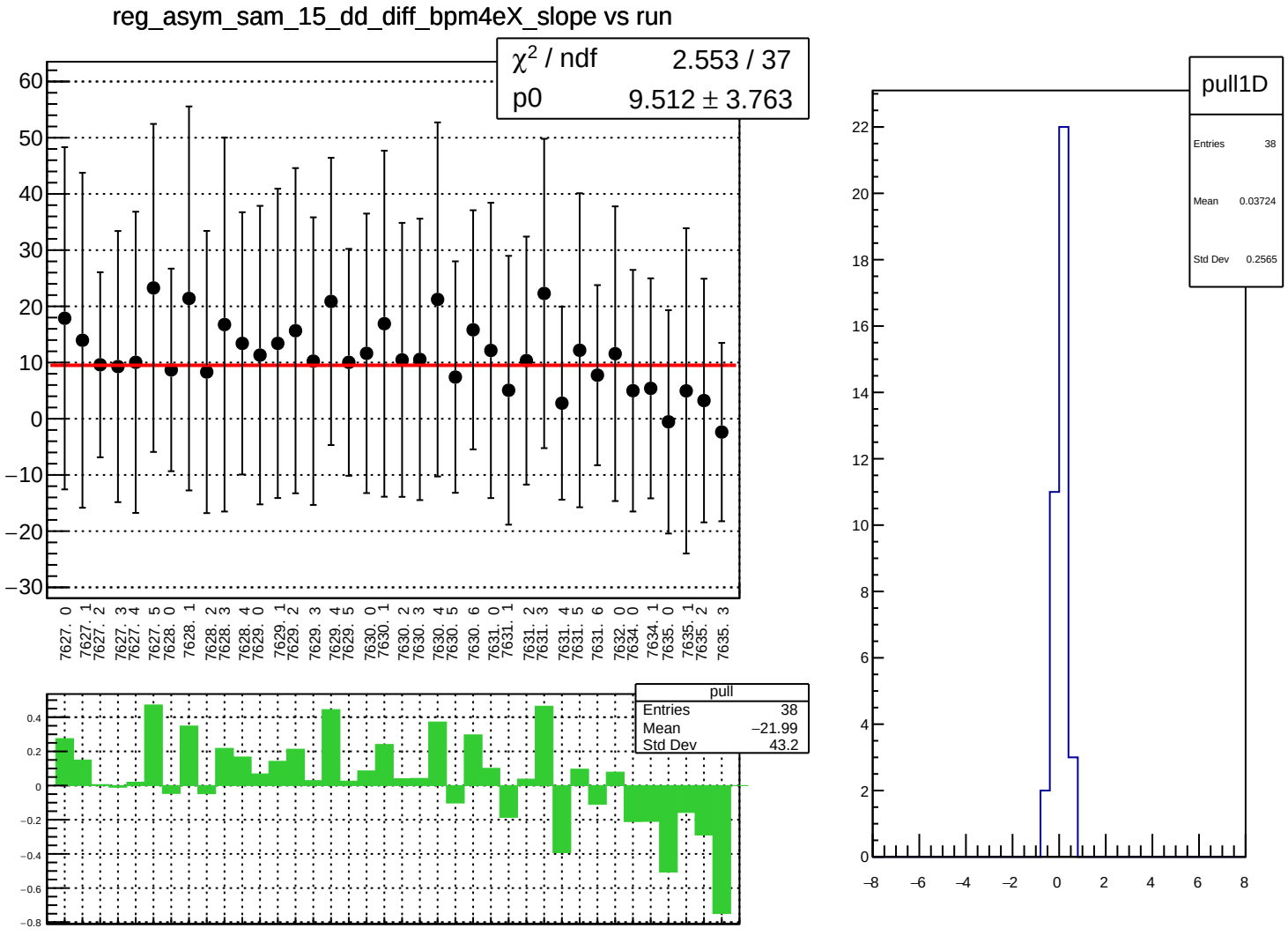

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 86.06 / 37
p0 7.431 ± 0.2486
pull
Entries 38
Mean 23.28
Std Dev 10.24

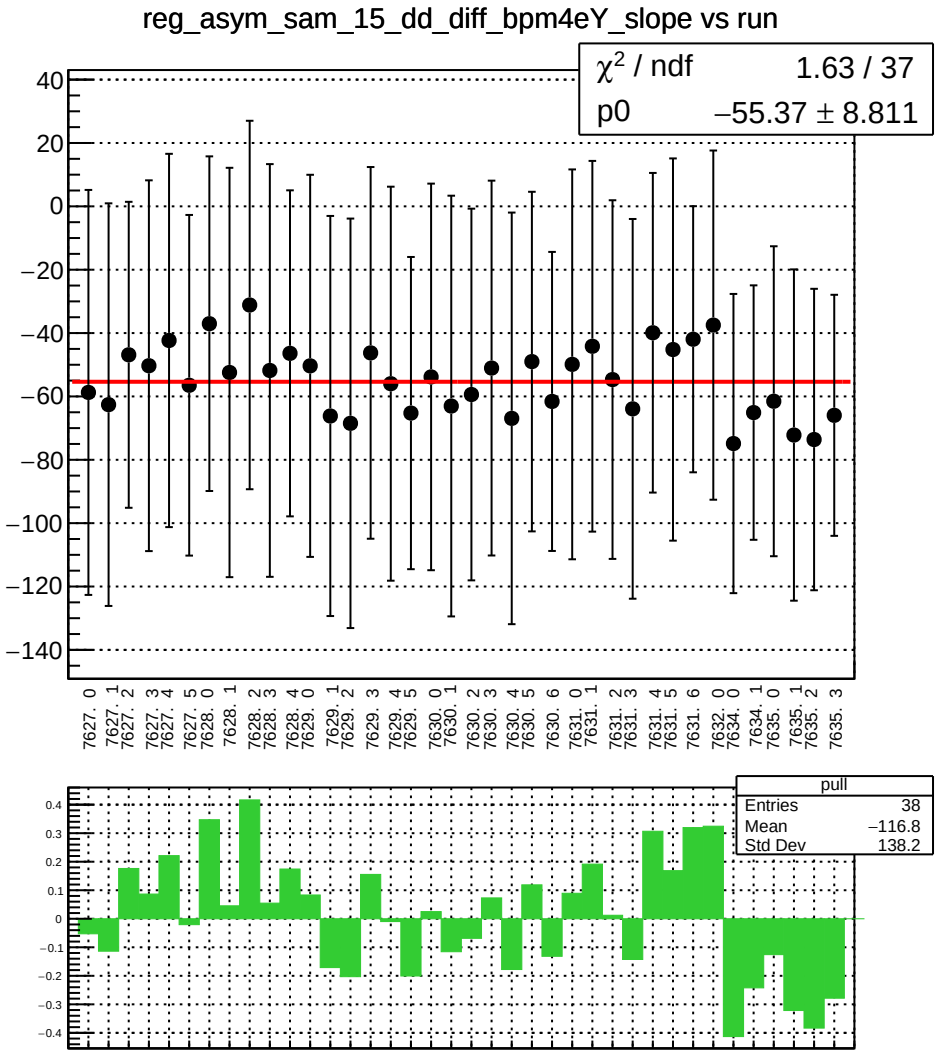

pull1D
Entries 38
Mean 0.2728
Std Dev 1.48

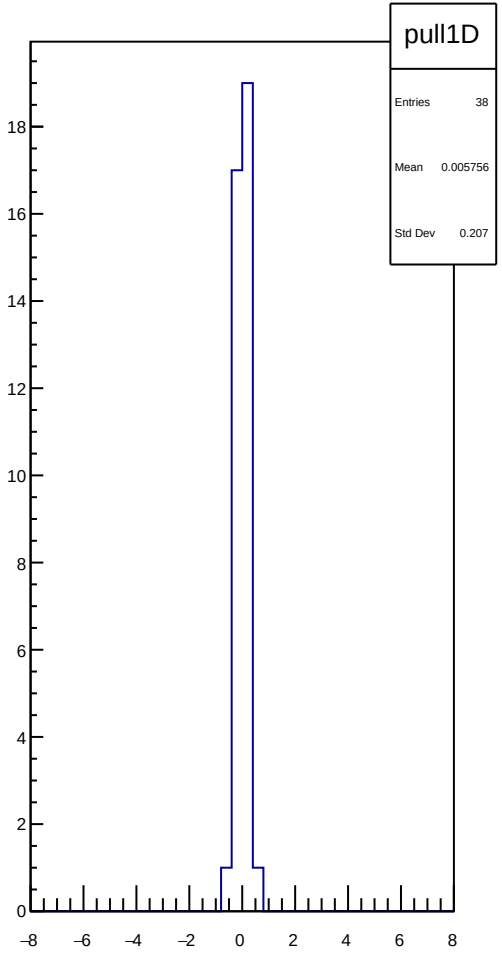

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 2.353 / 37
p0 −27.38 ± 4.692
pull
Entries 38
Mean −17.97
Std Dev 39.12
pull1D
Entries 38
Mean −0.0353
Std Dev 0.2463

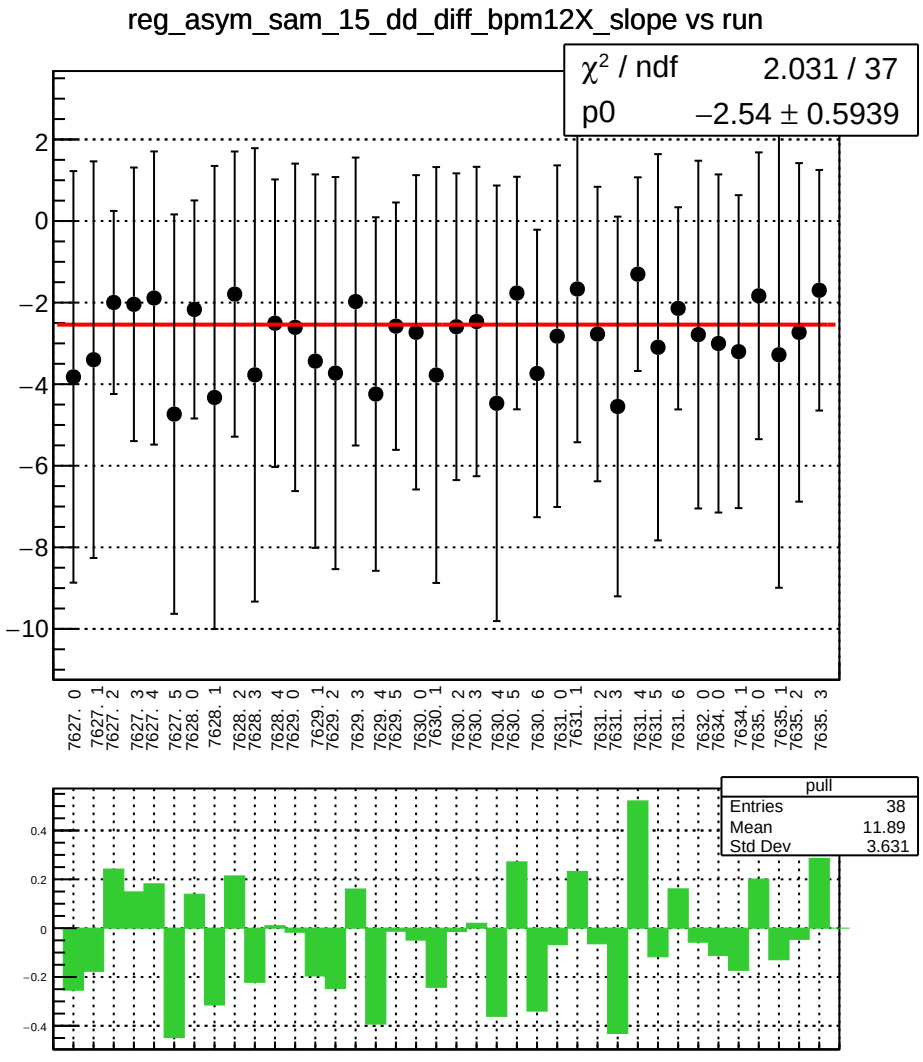

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.544 / 37
p0 −43.24 ± 6.002
pull
Entries 38
Mean −100.9
Std Dev 122.2

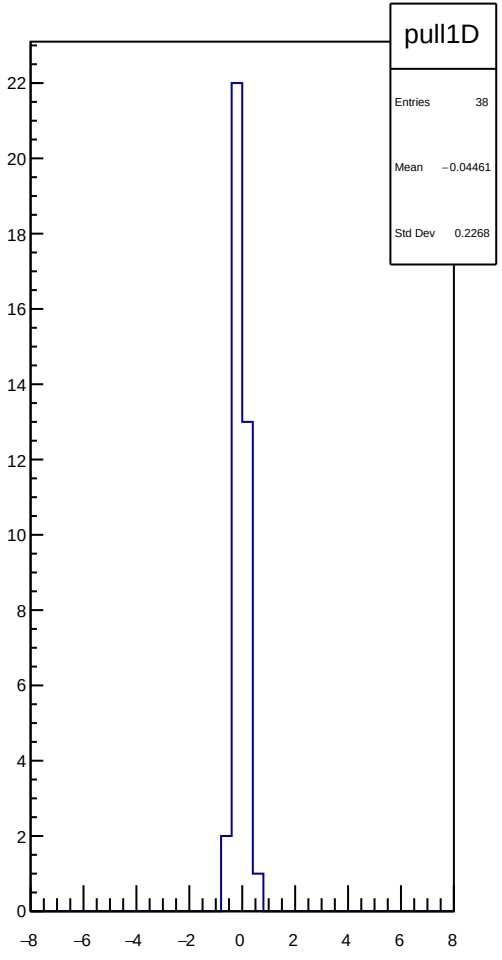

pull1D
Entries 38
Mean −0.005737
Std Dev 0.2015

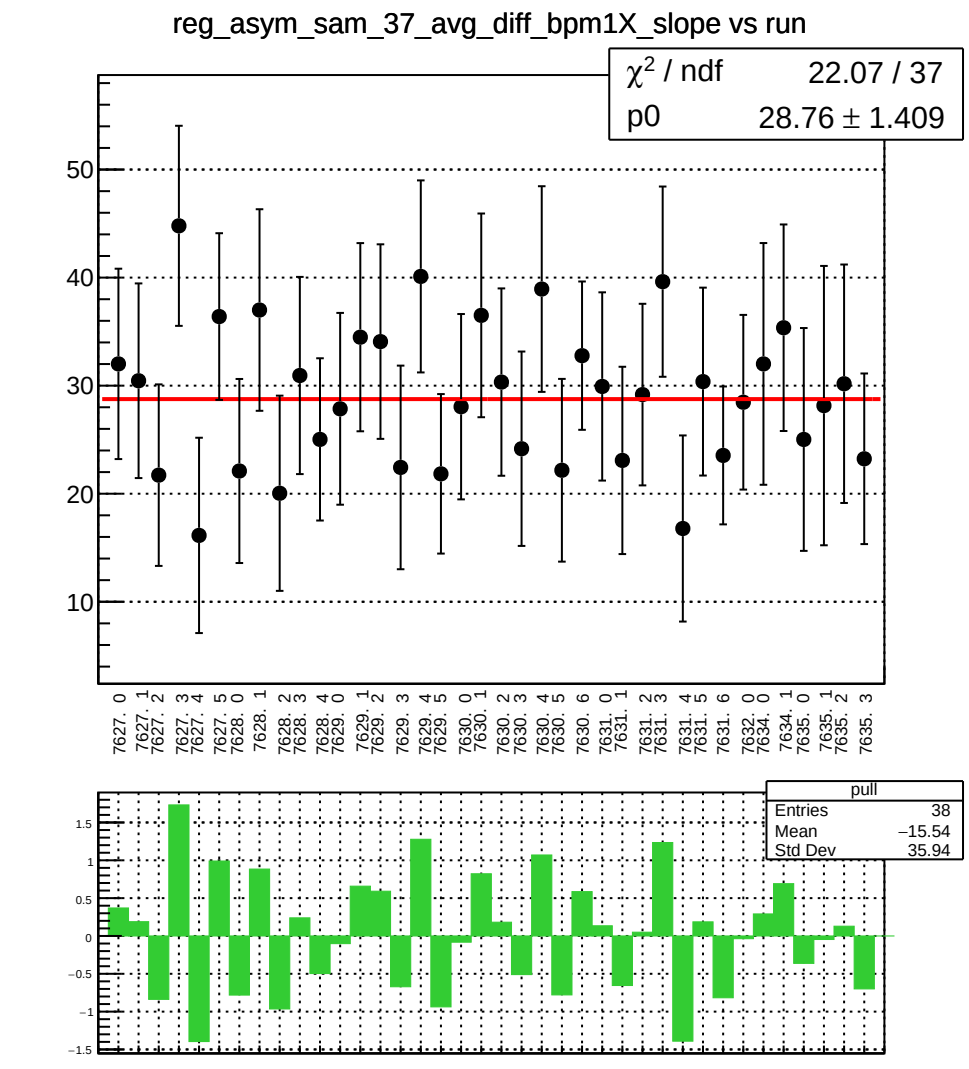

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.553 / 37
p0 9.512 ± 3.763
pull
Entries 38
Mean −21.99
Std Dev 43.2
pull1D
Entries 38
Mean 0.03724
Std Dev 0.2565

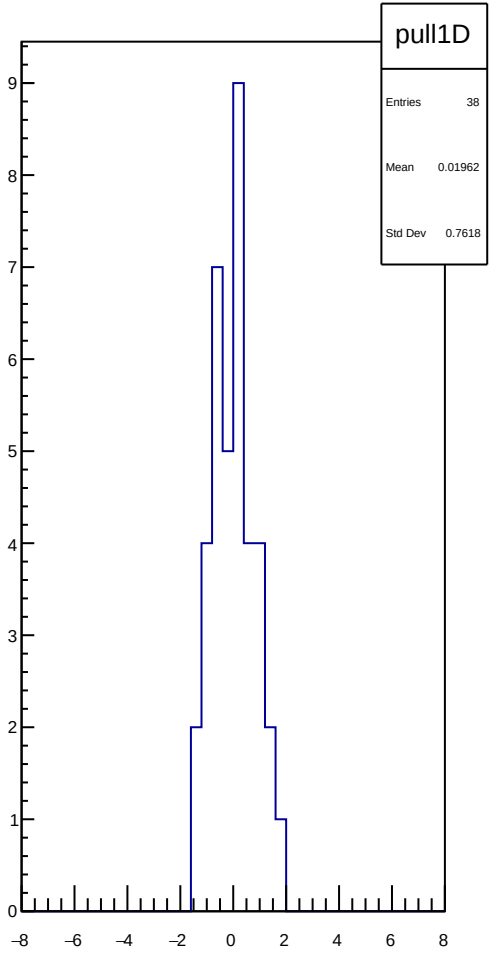

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.63 / 37
p0 −55.37 ± 8.811
pull
Entries 38
Mean −116.8
Std Dev 138.2

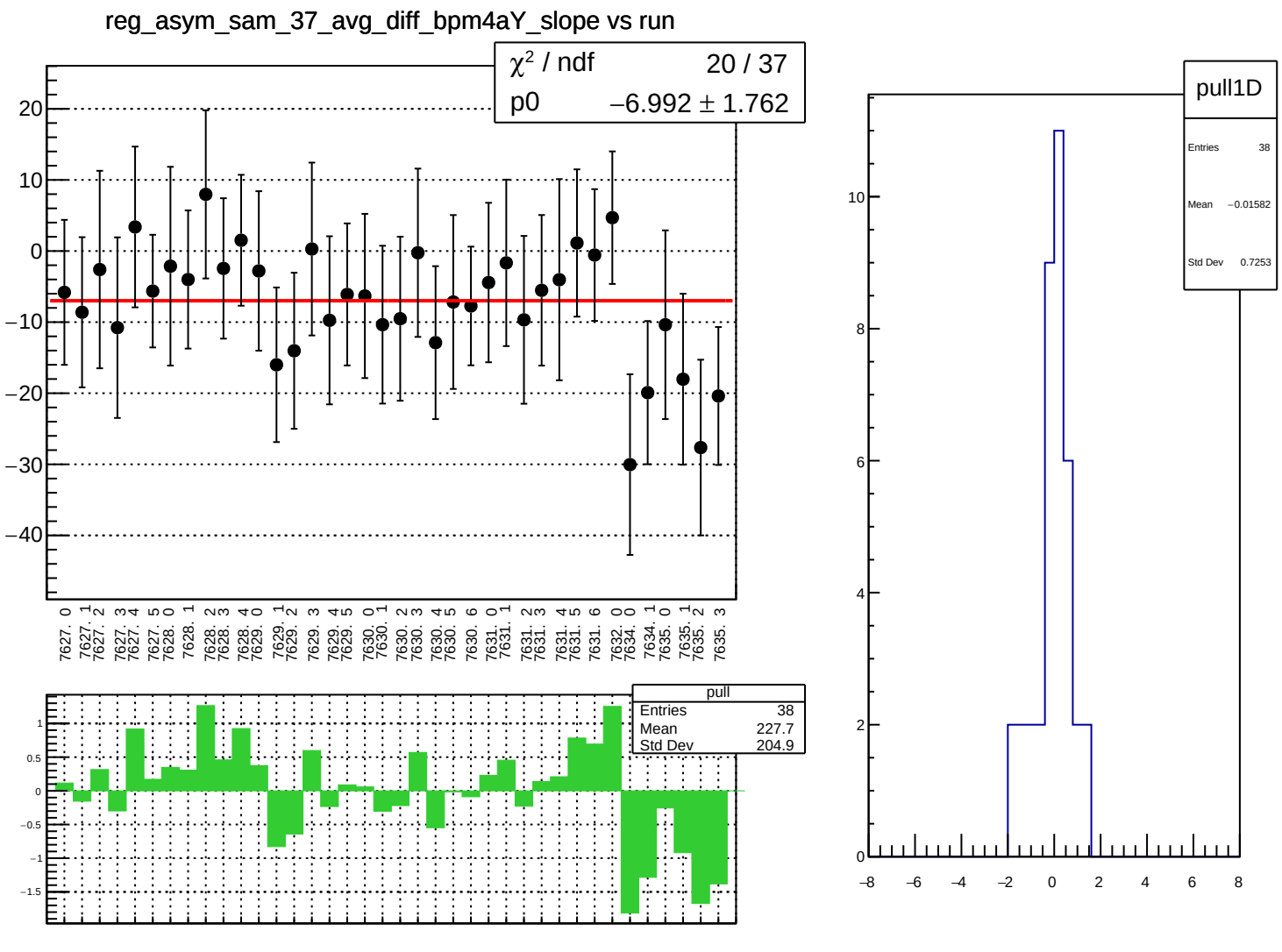

pull1D
Entries 38
Mean 0.005756
Std Dev 0.207

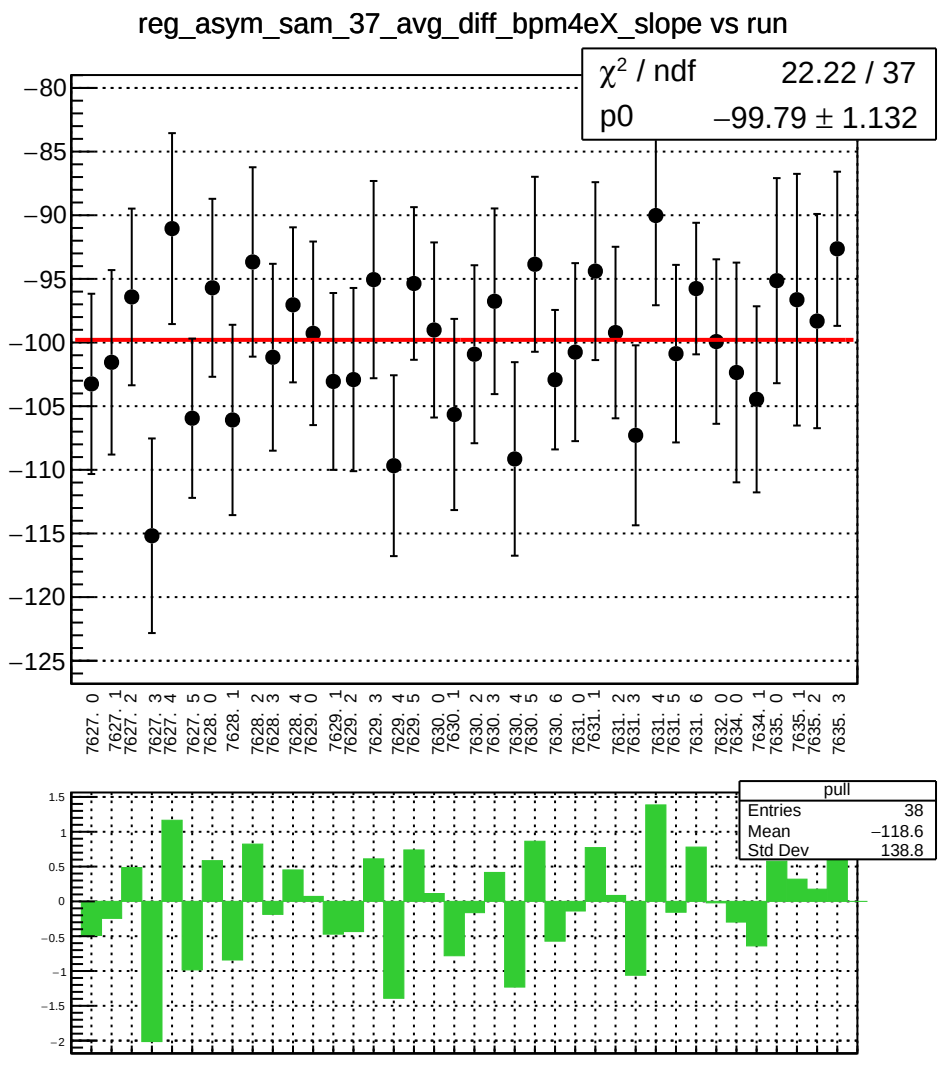

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 2.031 / 37
p0 −2.54 ± 0.5939
pull
Entries 38
Mean 11.89
Std Dev 3.631

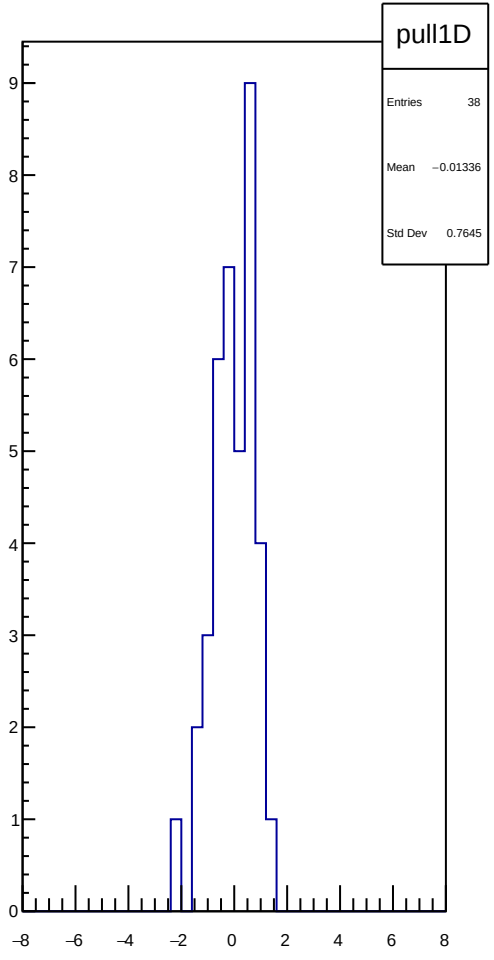

pull1D
Entries 38
Mean −0.04461
Std Dev 0.2268

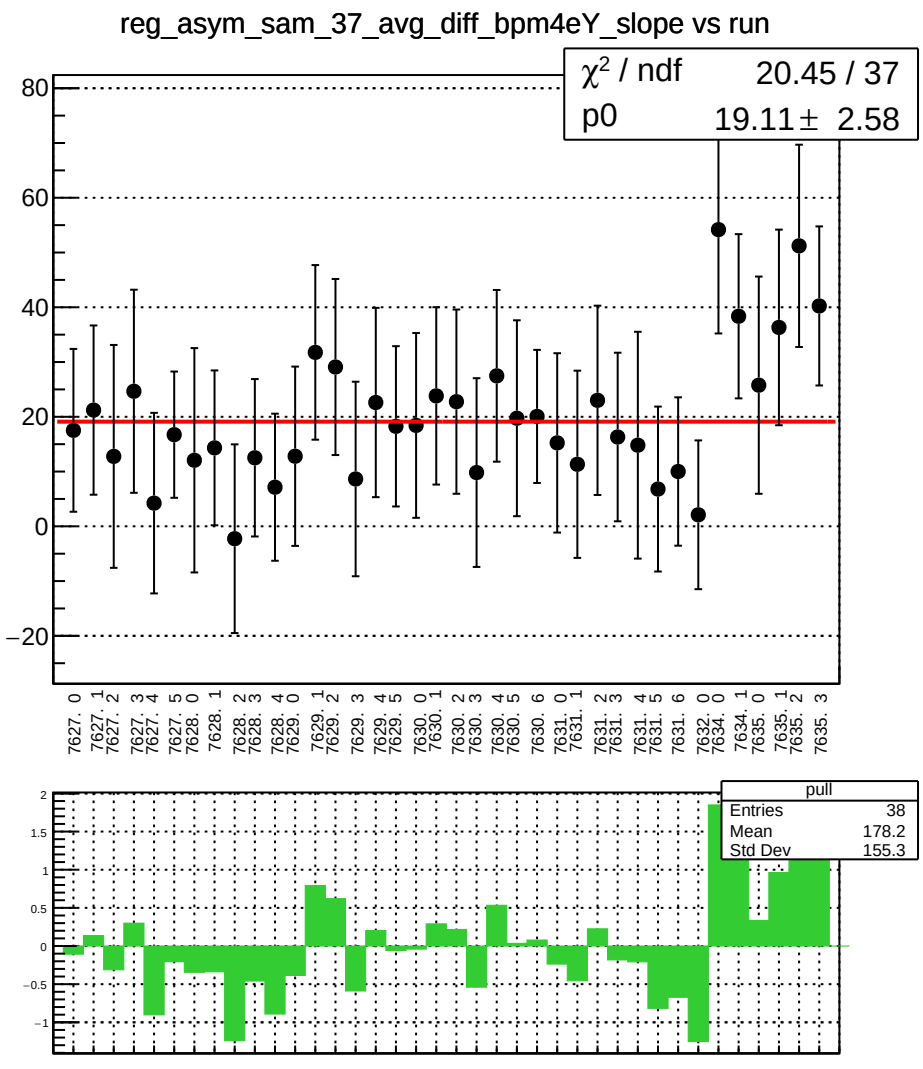

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 22.07 / 37
p0 28.76 ± 1.409
50
40
30
20
10
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −15.54
Std Dev 35.94
1.5
1
0.5
0
−0.5
−1
−1.5

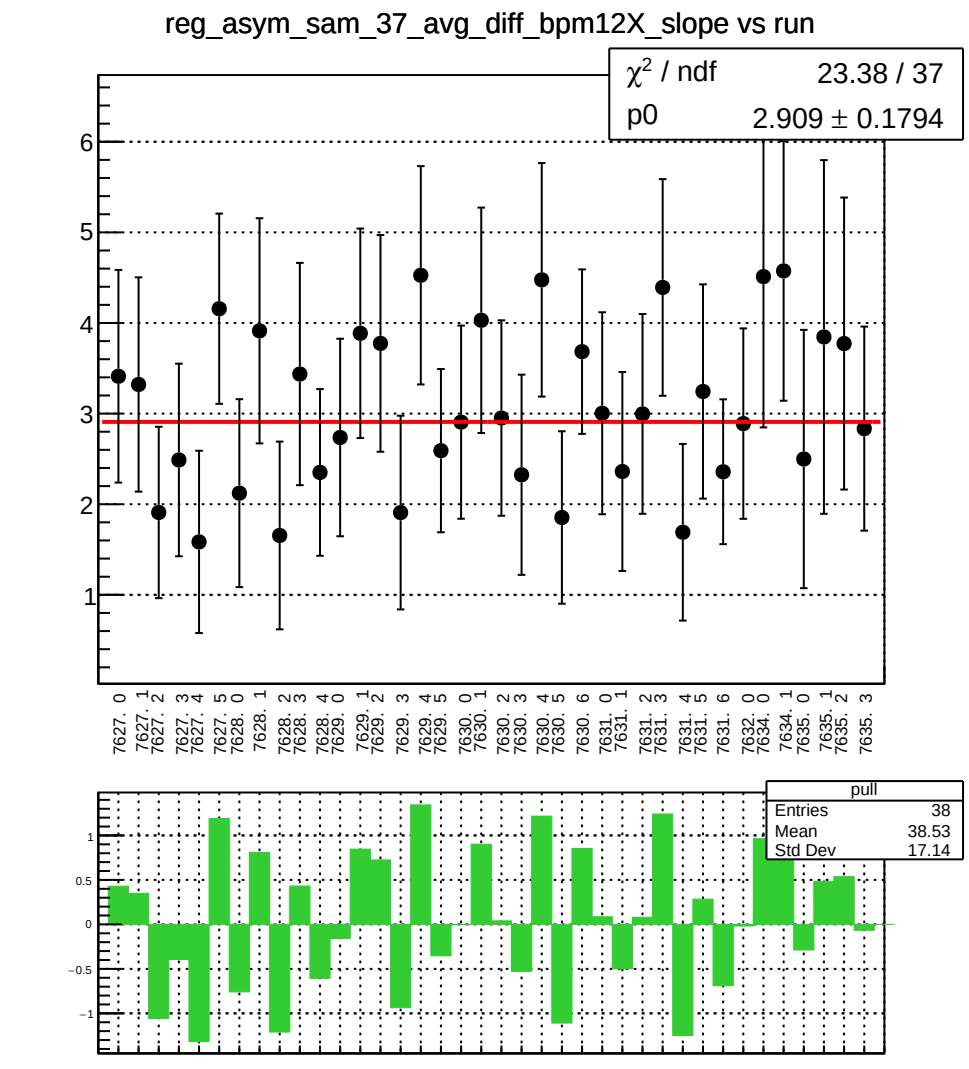

pull1D
Entries 38
Mean 0.01962
Std Dev 0.7618
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

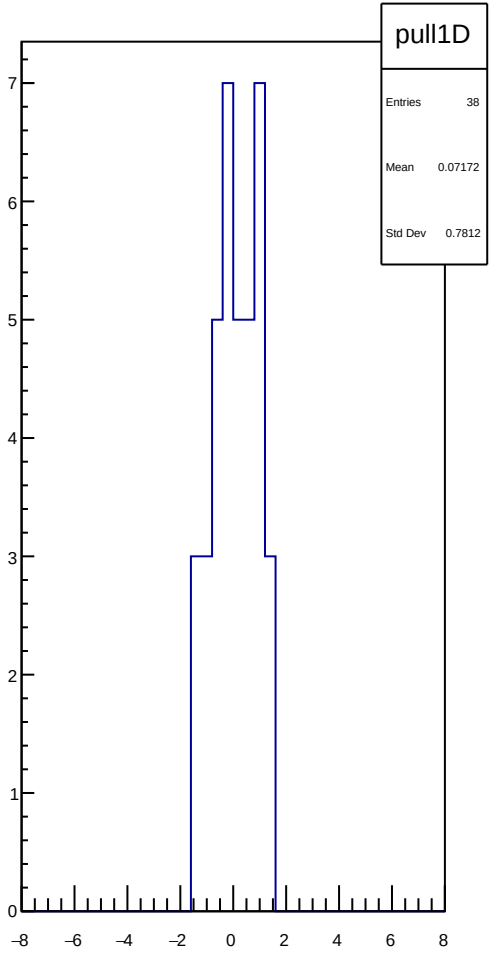

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 20 / 37
p0 −6.992 ± 1.762
pull
Entries 38
Mean 227.7
Std Dev 204.9
pull1D
Entries 38
Mean −0.01582
Std Dev 0.7253

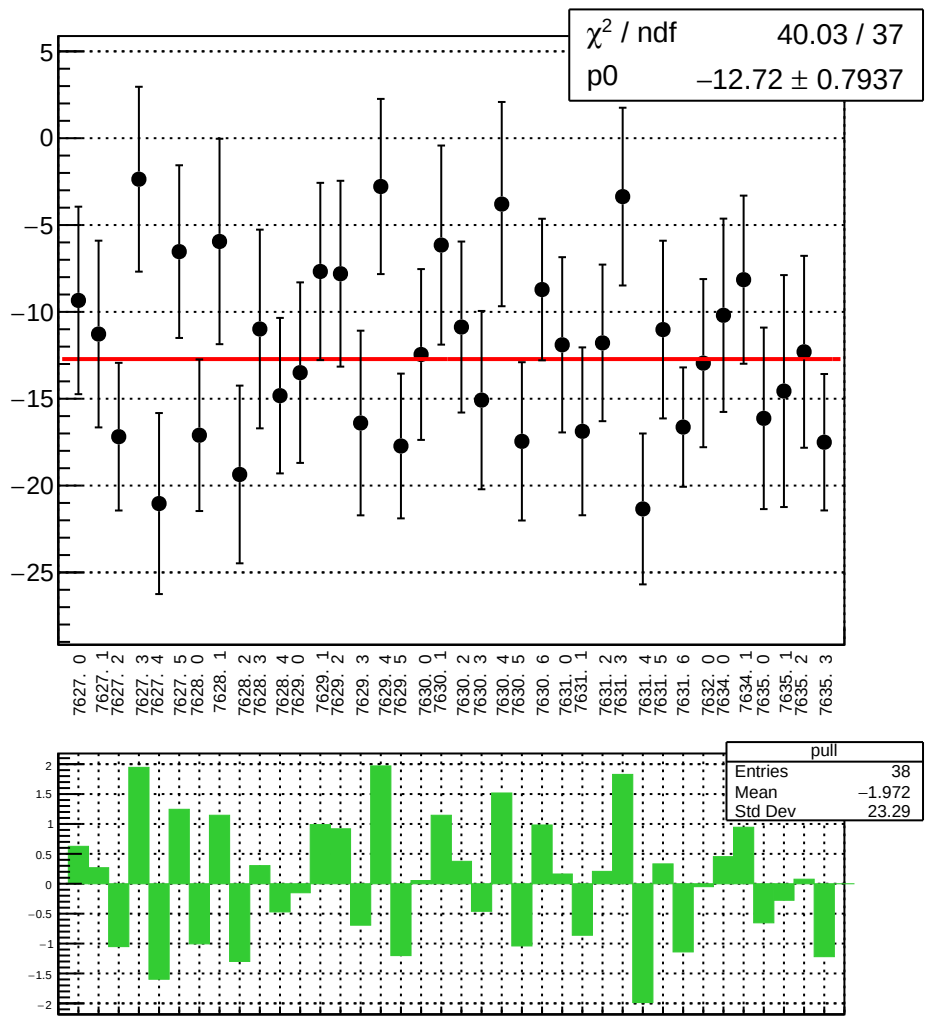

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 22.22 / 37
p0 −99.79 ± 1.132
pull
Entries 38
Mean −118.6
Std Dev 138.8

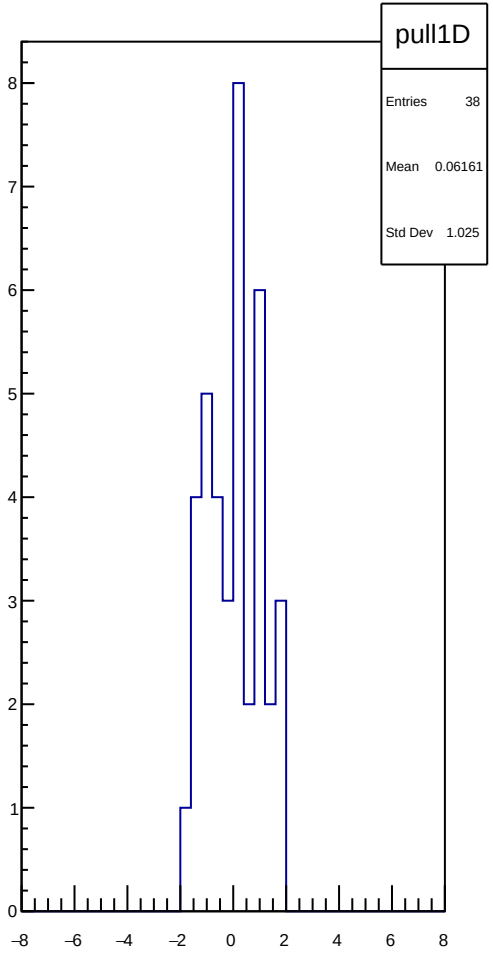

pull1D
Entries 38
Mean −0.01336
Std Dev 0.7645

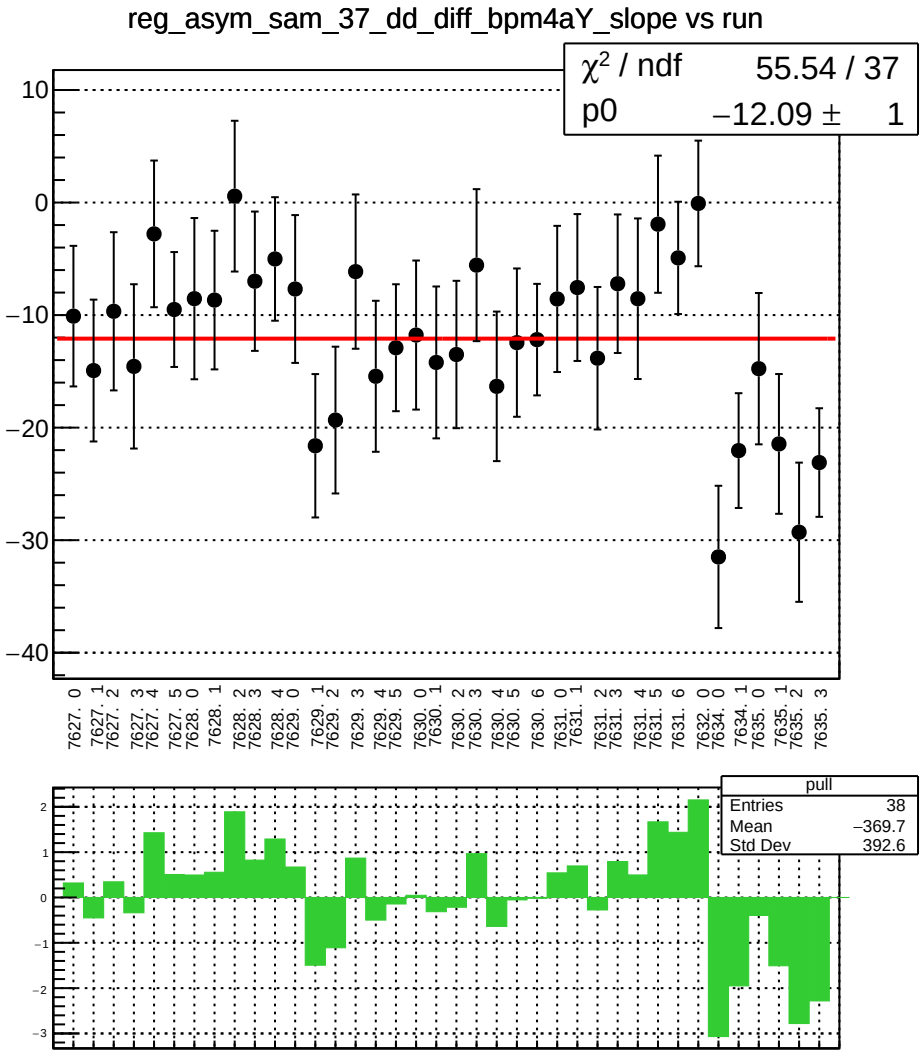

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 20.45 / 37
p0 19.11 ± 2.58
80
60
40
20
0
−20
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 4
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 178.2
Std Dev 155.3
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 38
Mean 0.02157
Std Dev 0.7332
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

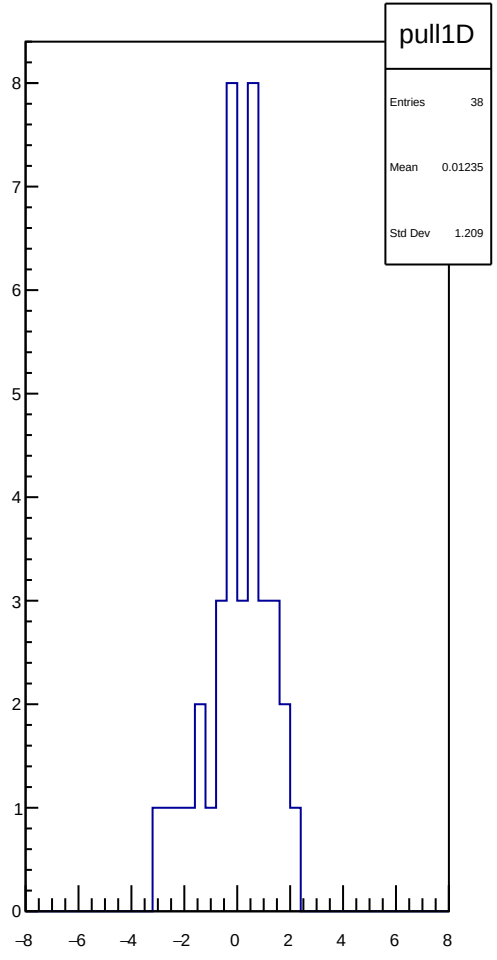

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 23.38 / 37
p0 2.909 ± 0.1794
pull
Entries 38
Mean 38.53
Std Dev 17.14

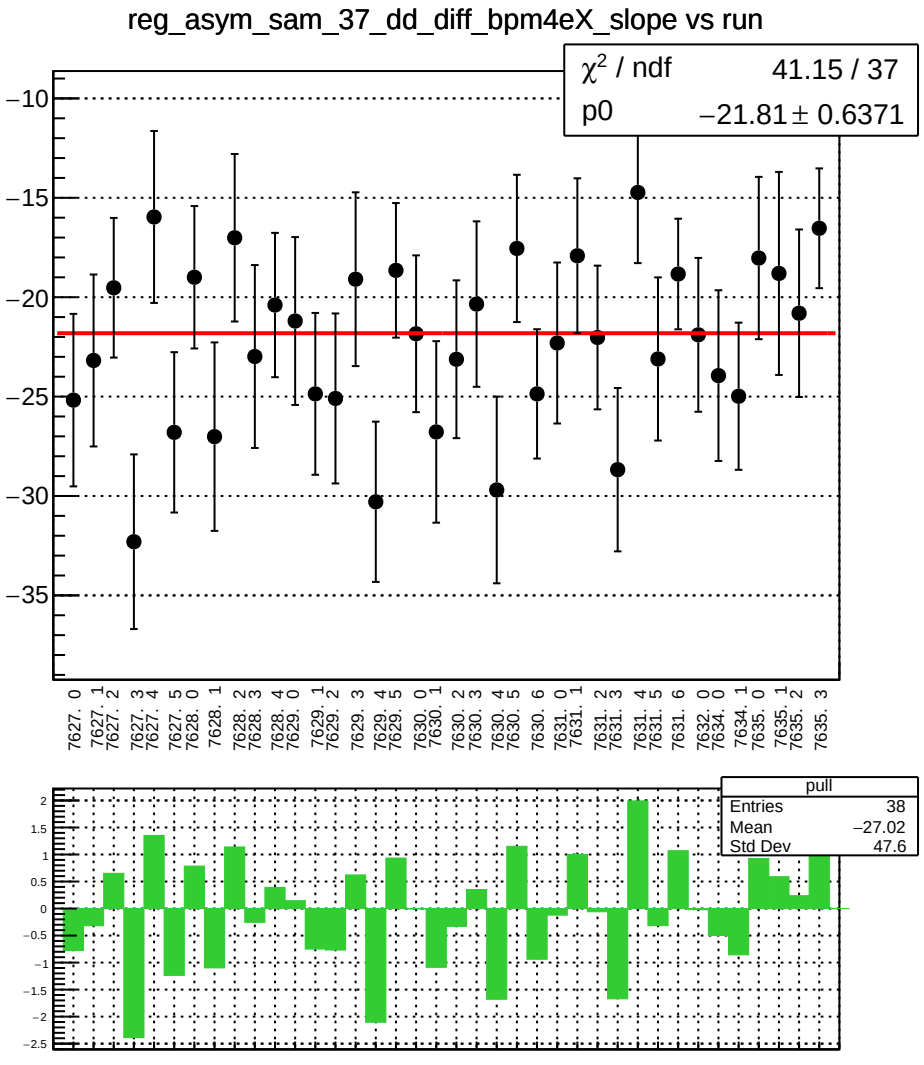

pull1D
Entries 38
Mean 0.07172
Std Dev 0.7812

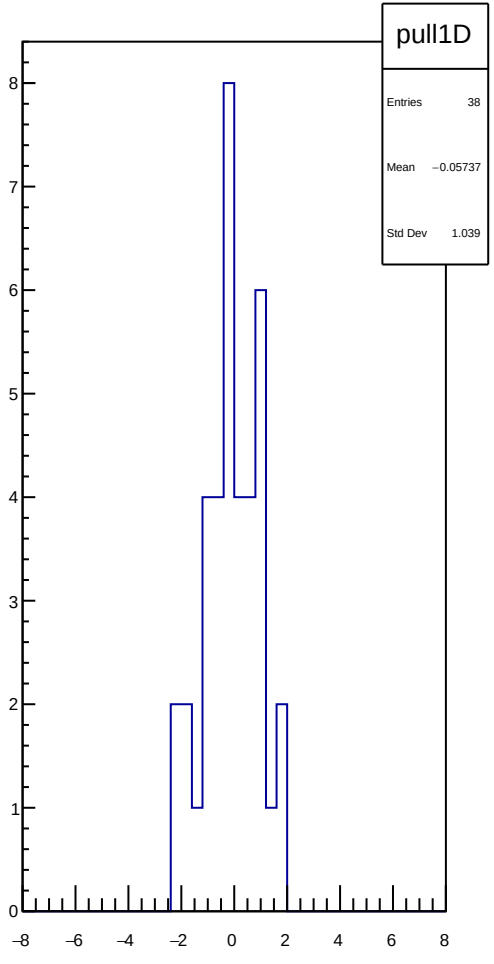

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 40.03 / 37
p0 −12.72 ± 0.7937
pull
Entries 38
Mean −1.972
Std Dev 23.29

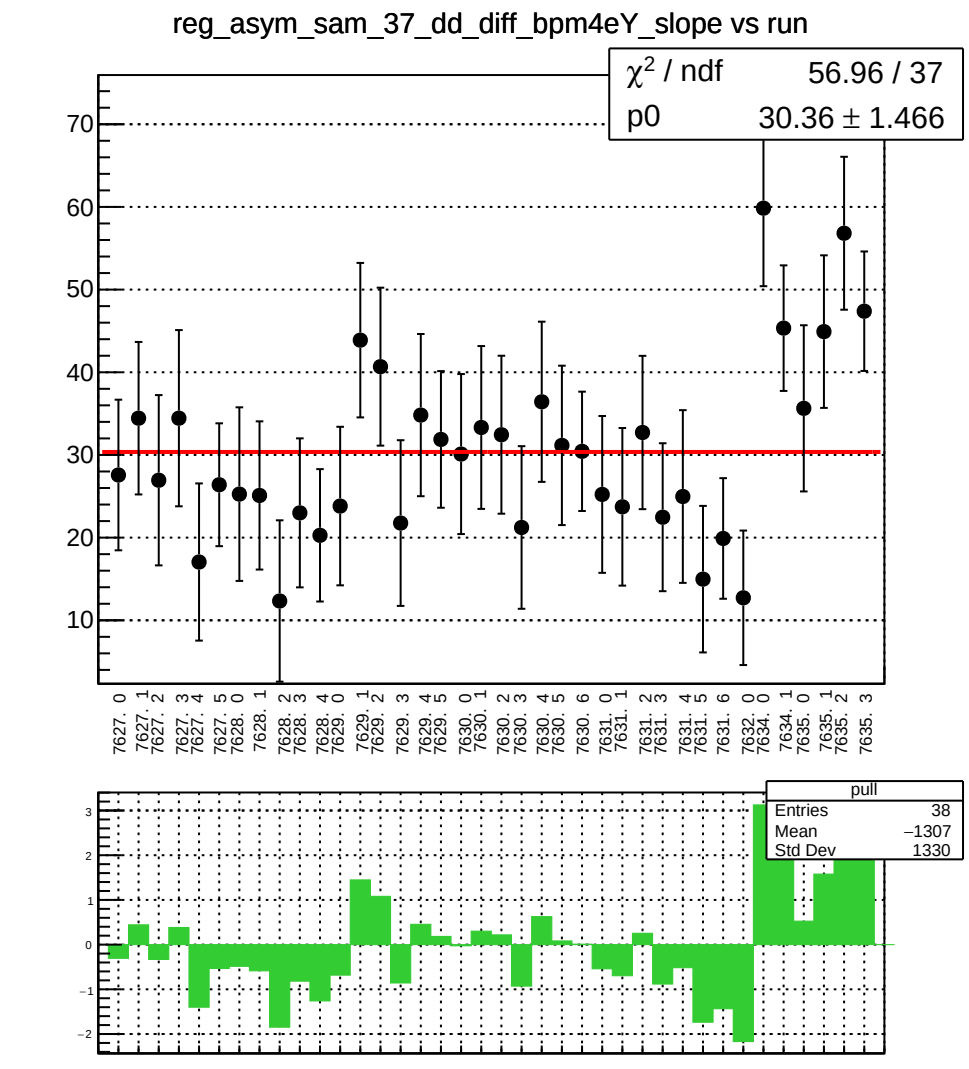

pull1D
Entries 38
Mean 0.06161
Std Dev 1.025

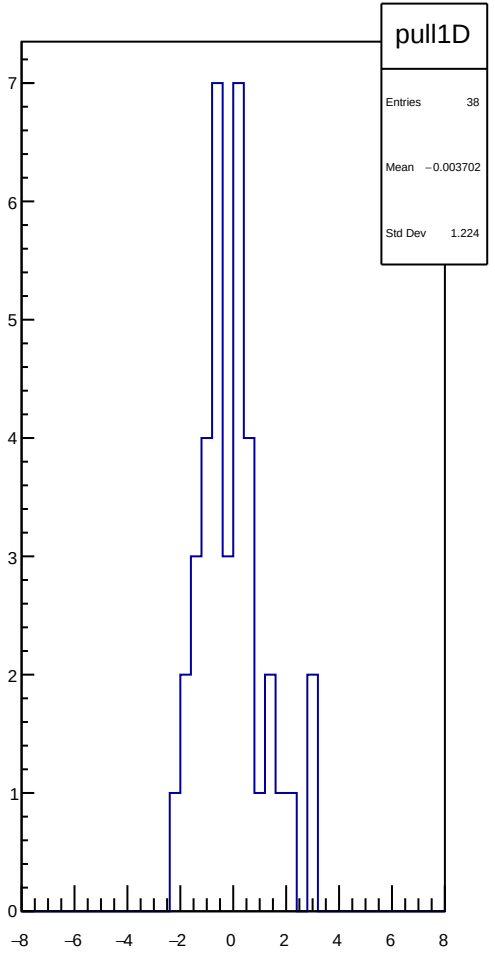

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 55.54 / 37
p0 −12.09 ± 1
pull
Entries 38
Mean −369.7
Std Dev 392.6

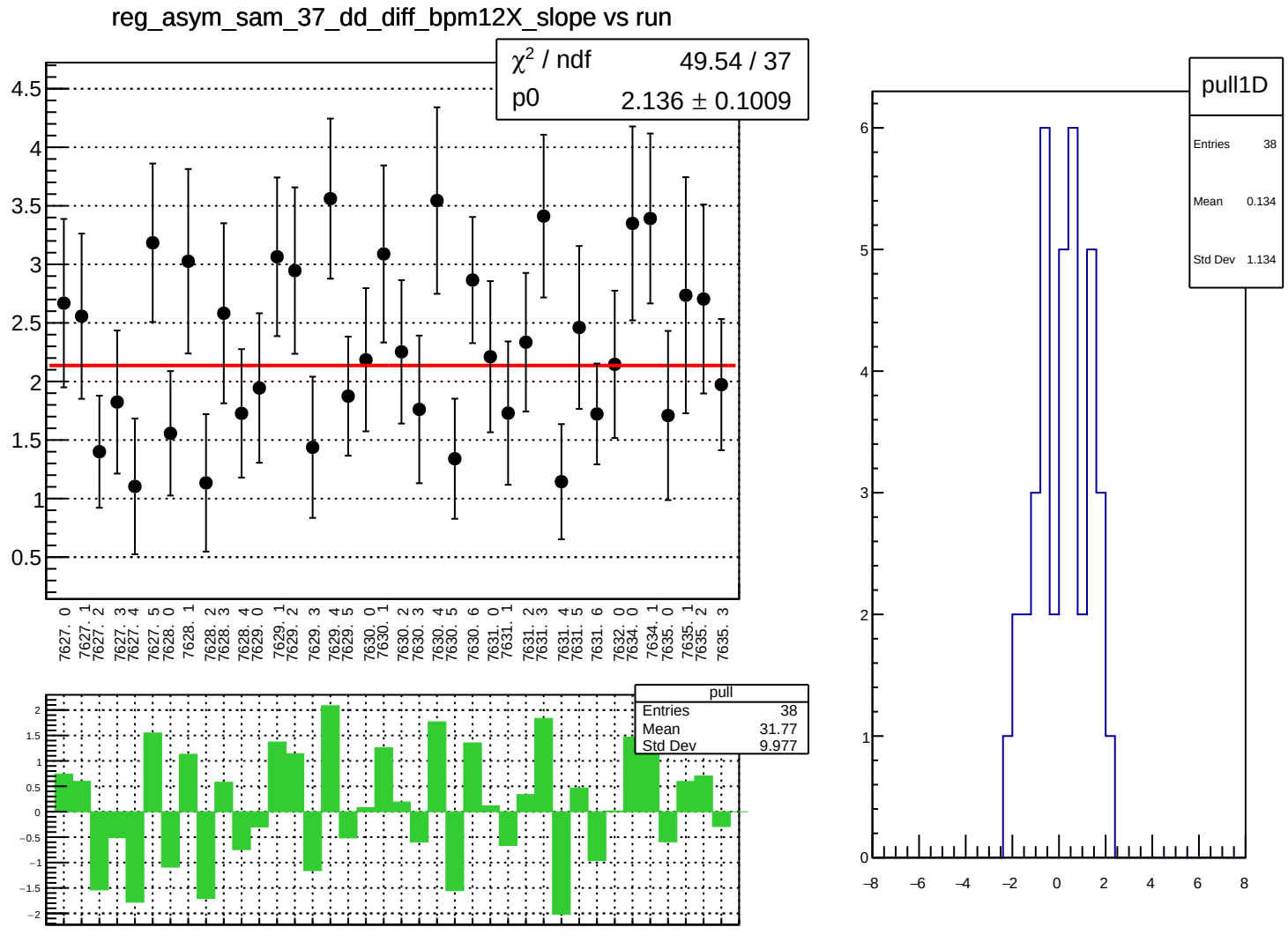

pull1D
Entries 38
Mean 0.01235
Std Dev 1.209

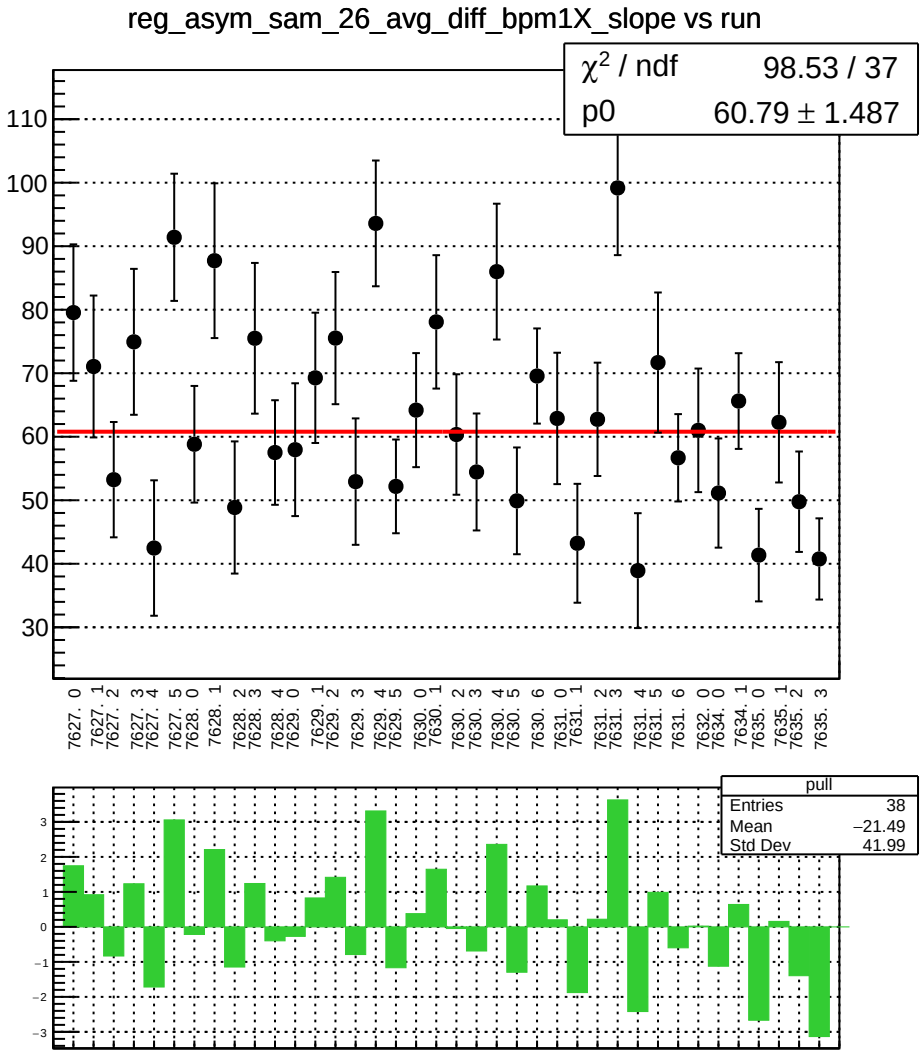

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 41.15 / 37
p0 −21.81 ± 0.6371
pull
Entries 38
Mean −27.02
Std Dev 47.6

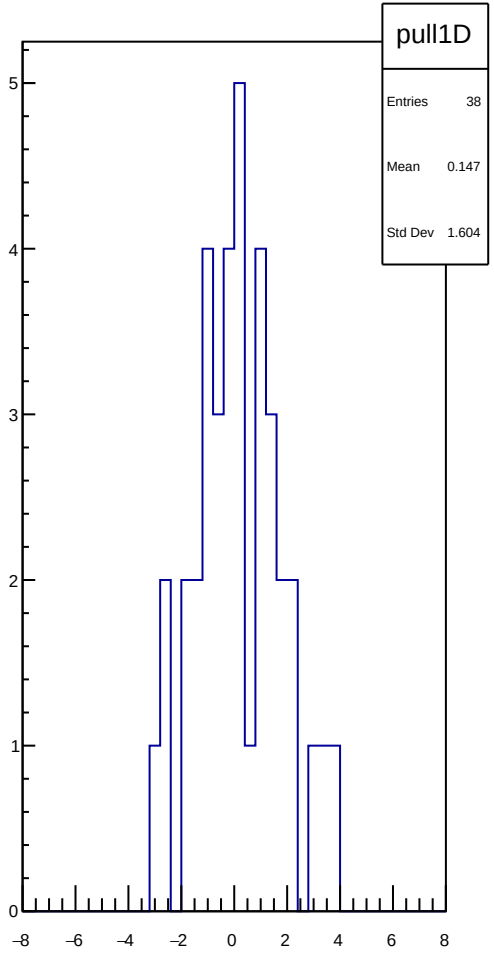

pull1D
Entries 38
Mean −0.05737
Std Dev 1.039

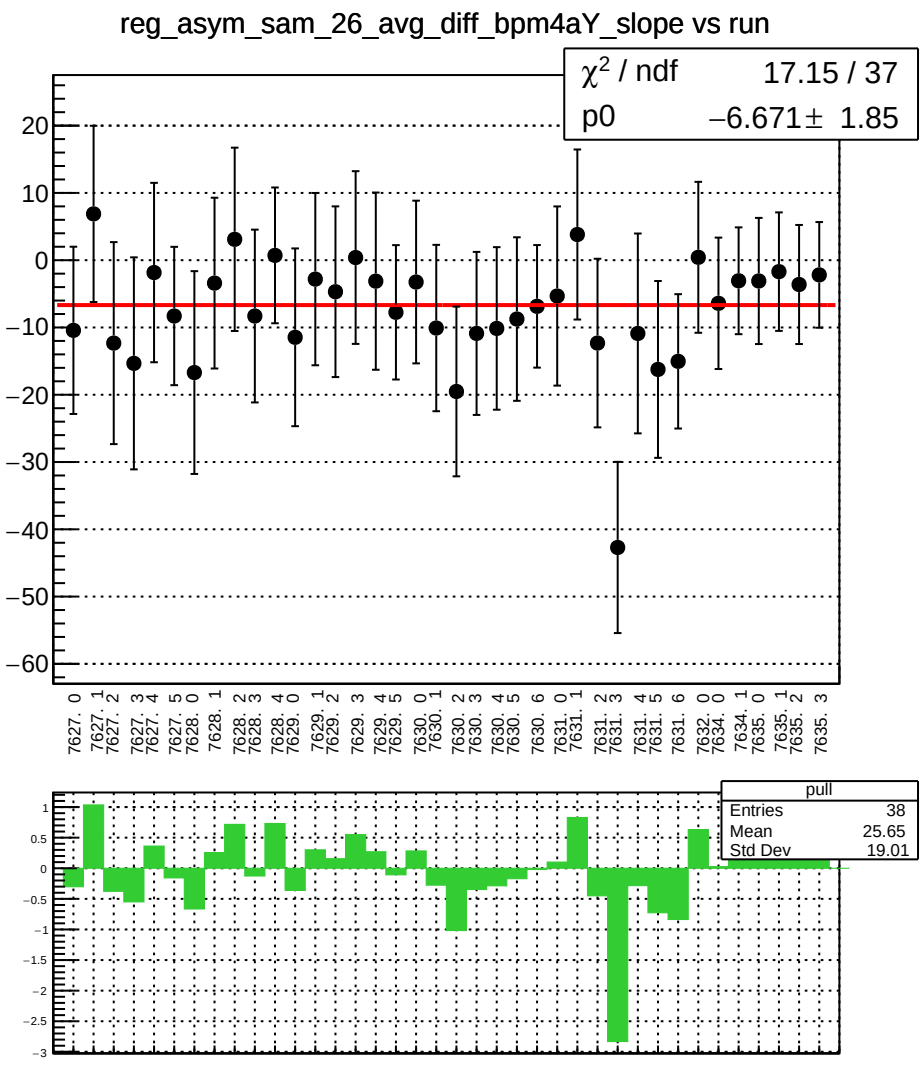

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 56.96 / 37
p0 30.36 ± 1.466
pull
Entries 38
Mean −1307
Std Dev 1330

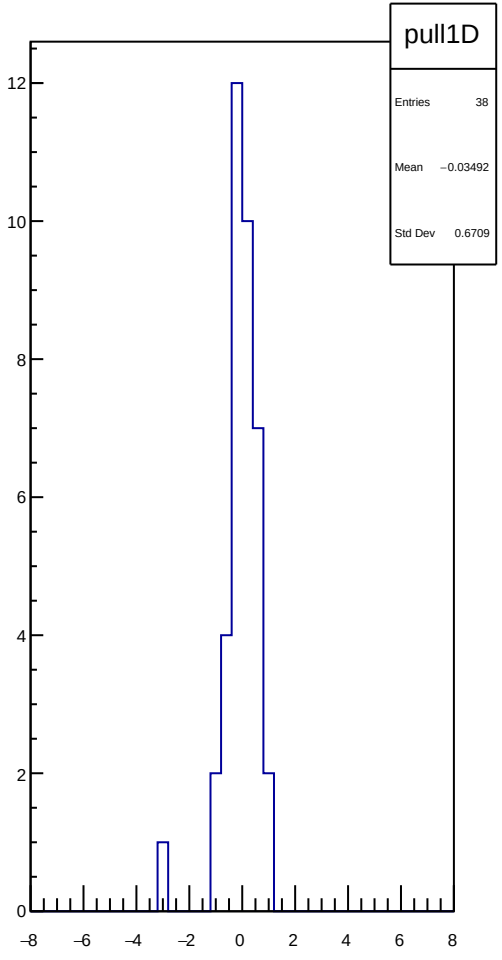

pull1D
Entries 38
Mean −0.003702
Std Dev 1.224

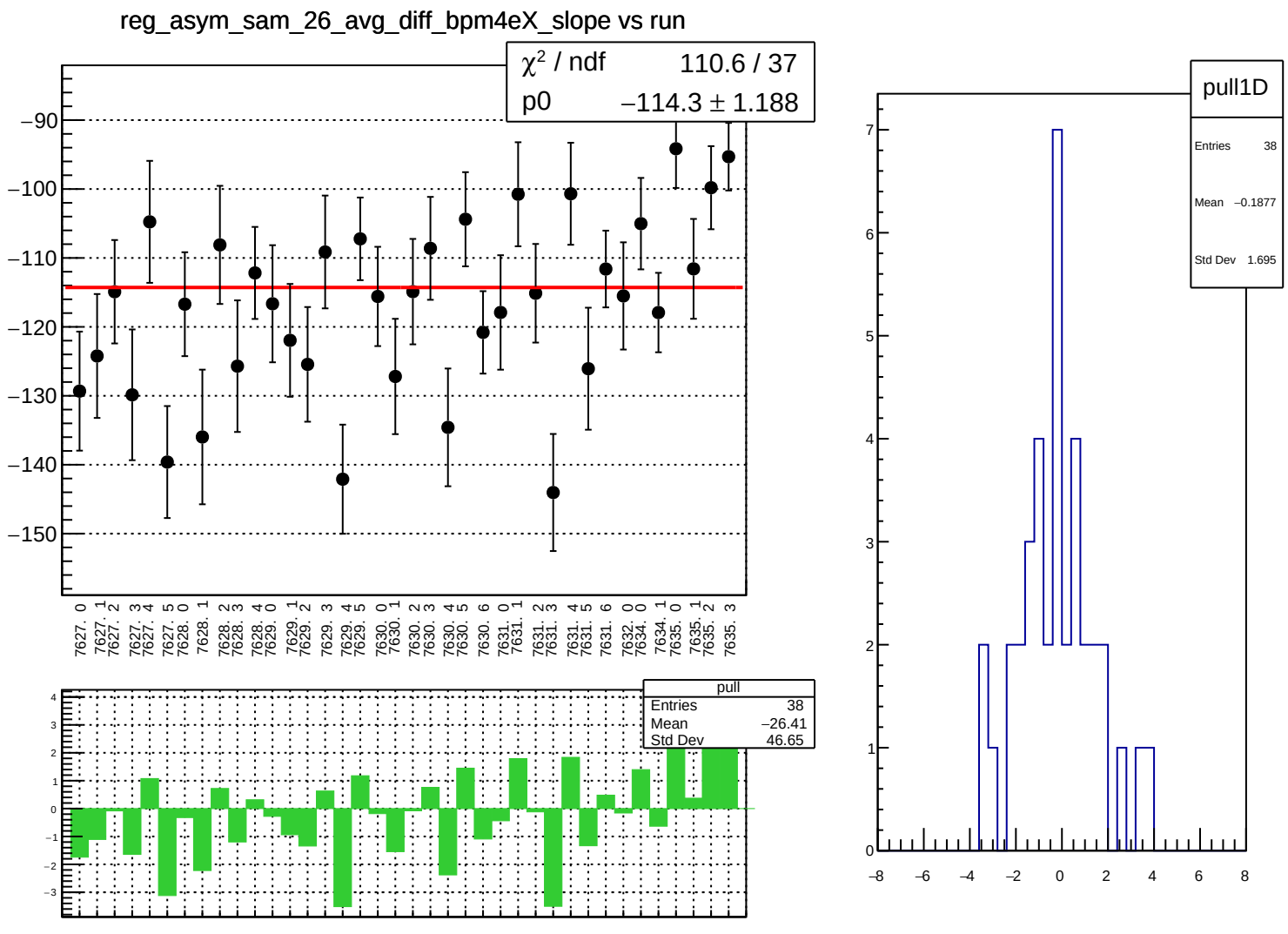

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 49.54 / 37
p0 2.136 ± 0.1009
pull
Entries 38
Mean 31.77
Std Dev 9.977
pull1D
Entries 38
Mean 0.134
Std Dev 1.134

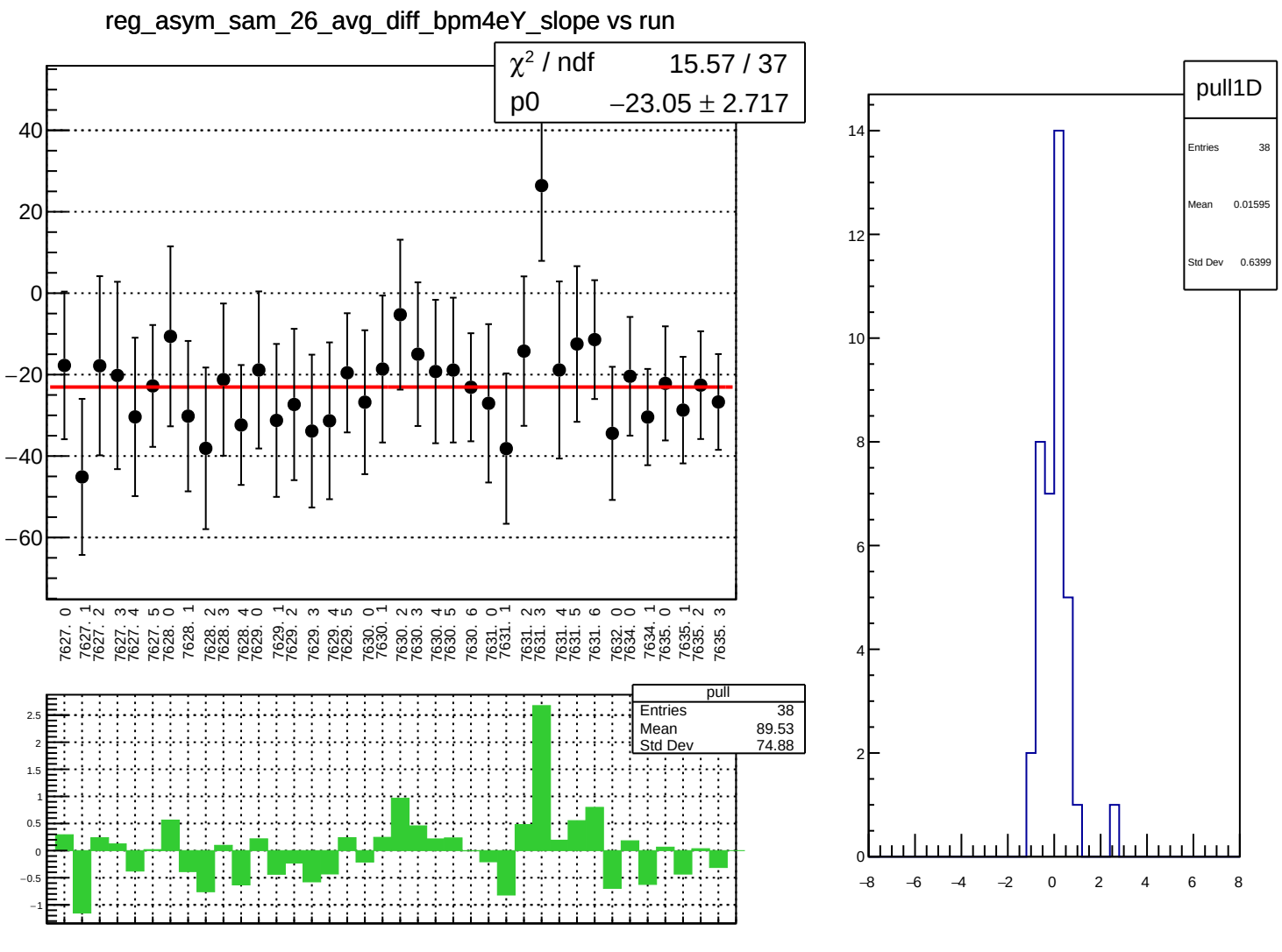

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 98.53 / 37
p0 60.79 ± 1.487
pull
Entries 38
Mean −21.49
Std Dev 41.99

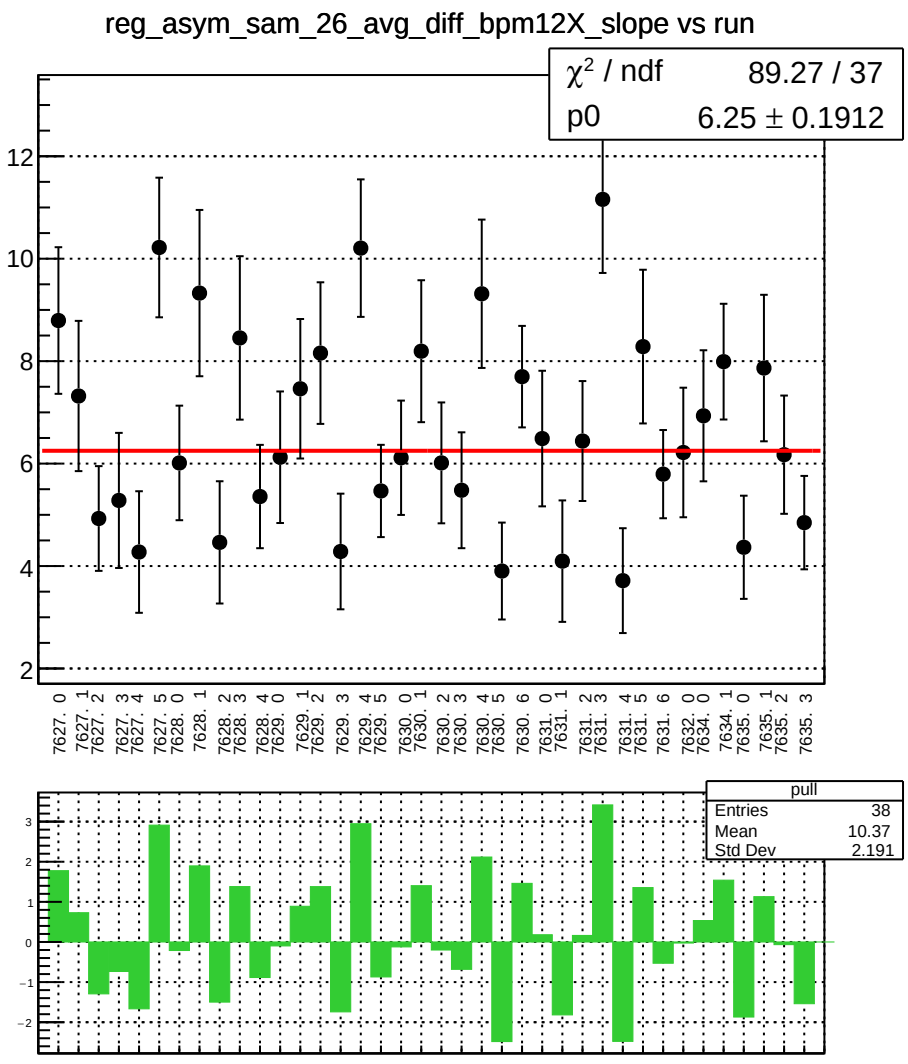

pull1D
Entries 38
Mean 0.147
Std Dev 1.604

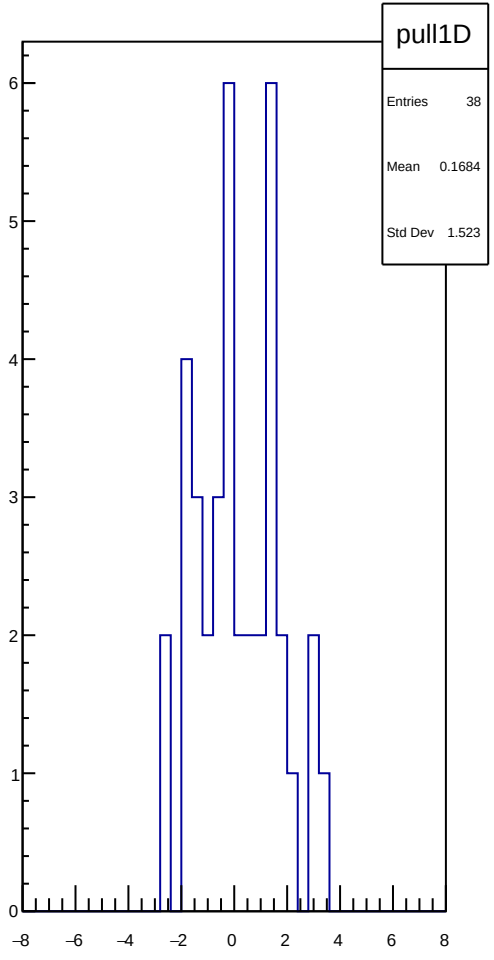

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 17.15 / 37
p0 −6.671± 1.85
pull
Entries 38
Mean 25.65
Std Dev 19.01

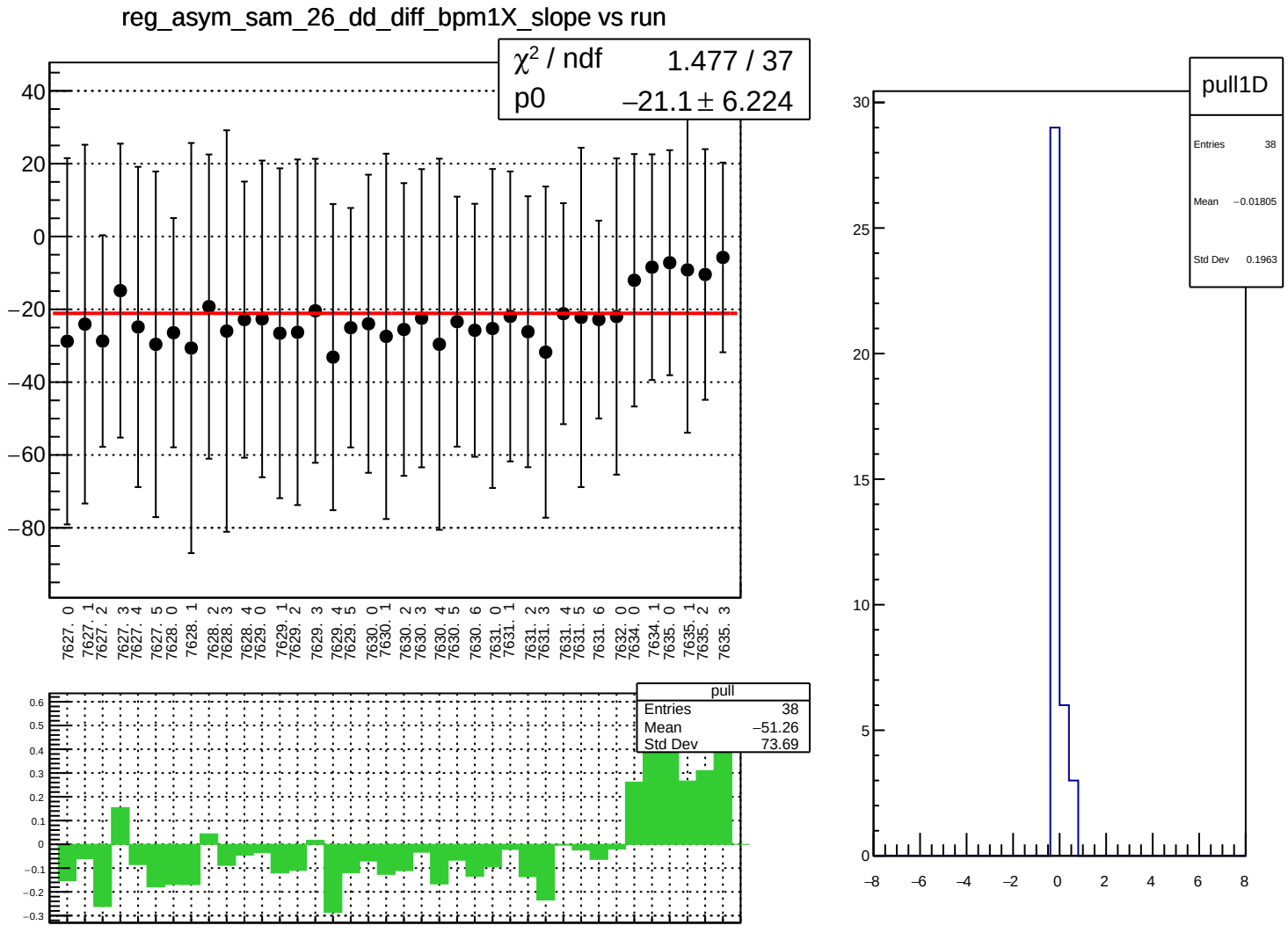

pull1D
Entries 38
Mean −0.03492
Std Dev 0.6709

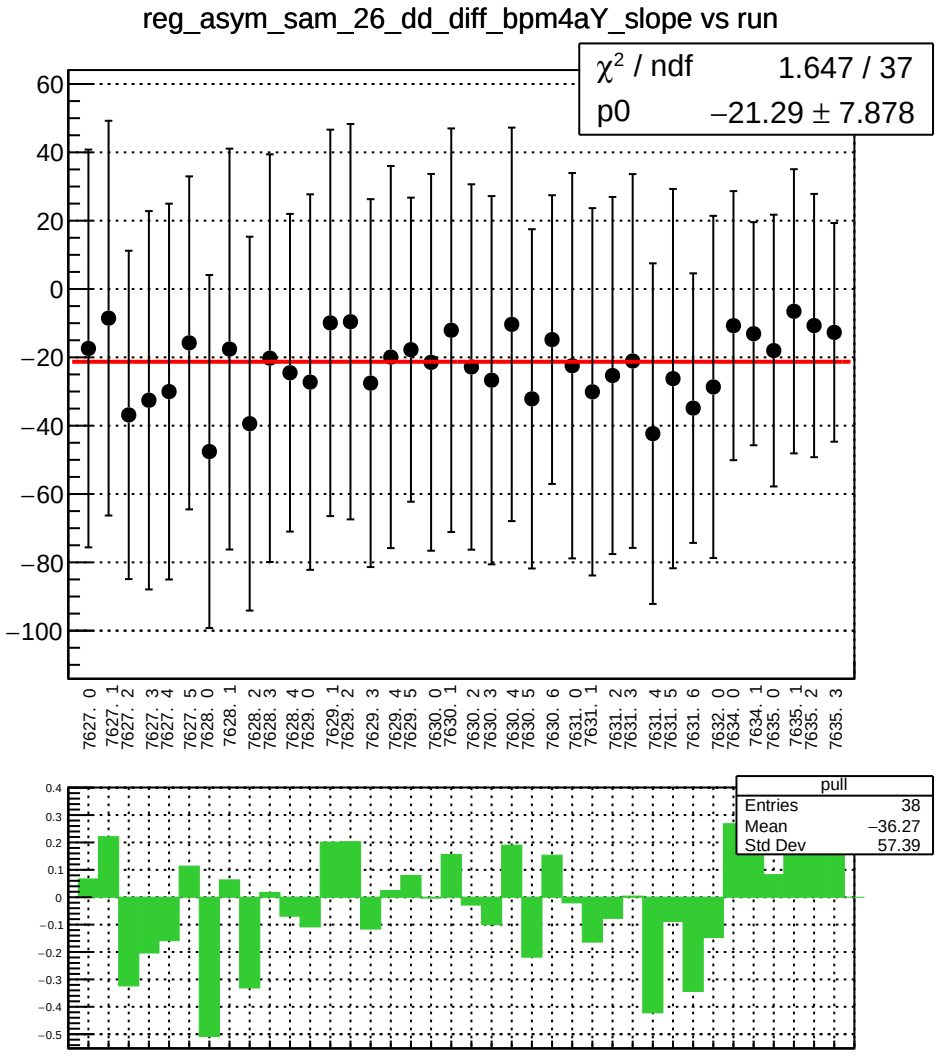

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 110.6 / 37
p0 −114.3 ± 1.188
pull
Entries 38
Mean −26.41
Std Dev 46.65
pull1D
Entries 38
Mean −0.1877
Std Dev 1.695

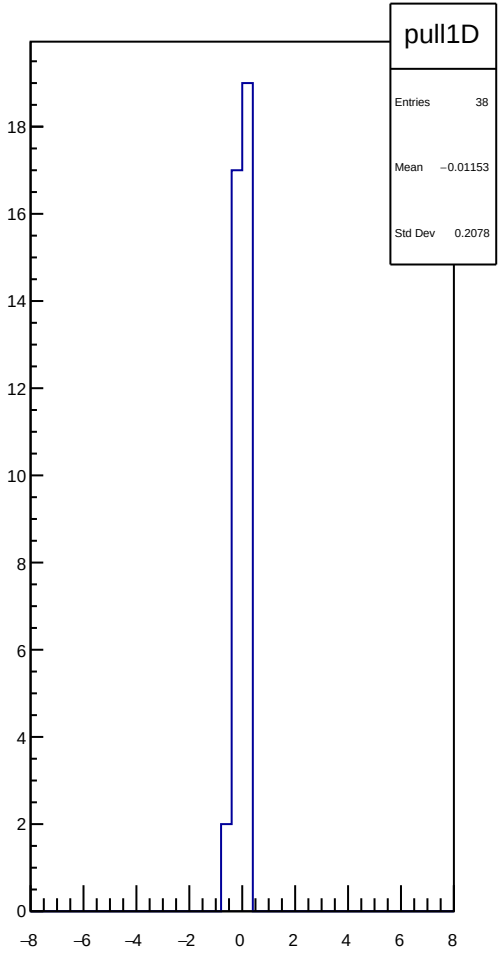

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 15.57 / 37
p0 −23.05 ± 2.717
pull
Entries 38
Mean 89.53
Std Dev 74.88
pull1D
Entries 38
Mean 0.01595
Std Dev 0.6399

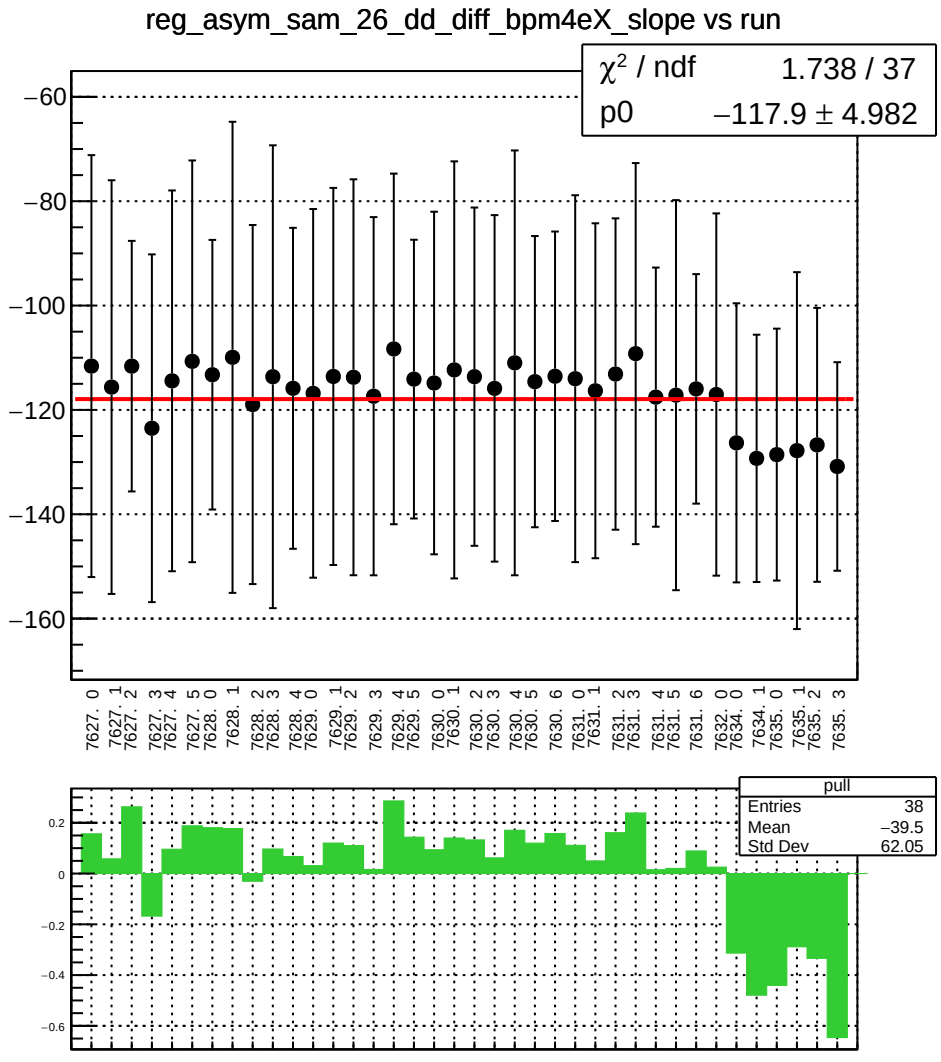

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 89.27 / 37
p0 6.25 ± 0.1912
pull
Entries 38
Mean 10.37
Std Dev 2.191

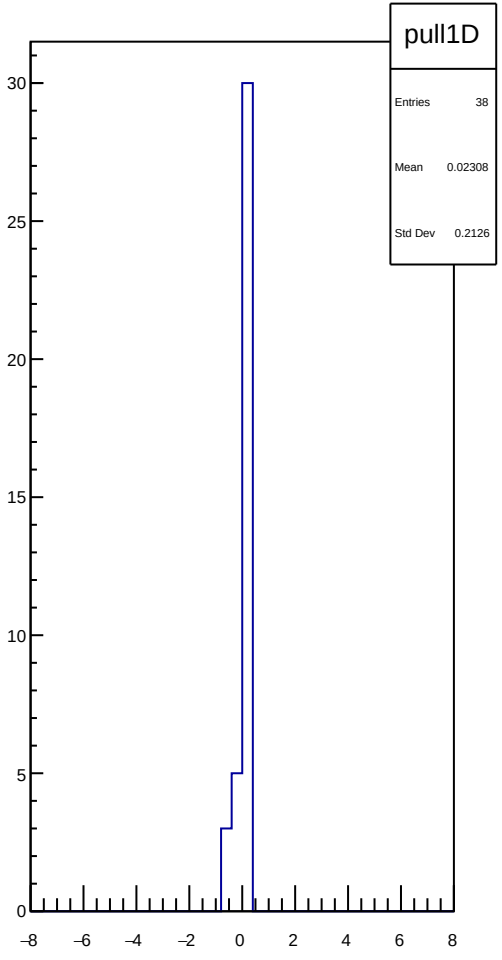

pull1D
Entries 38
Mean 0.1684
Std Dev 1.523

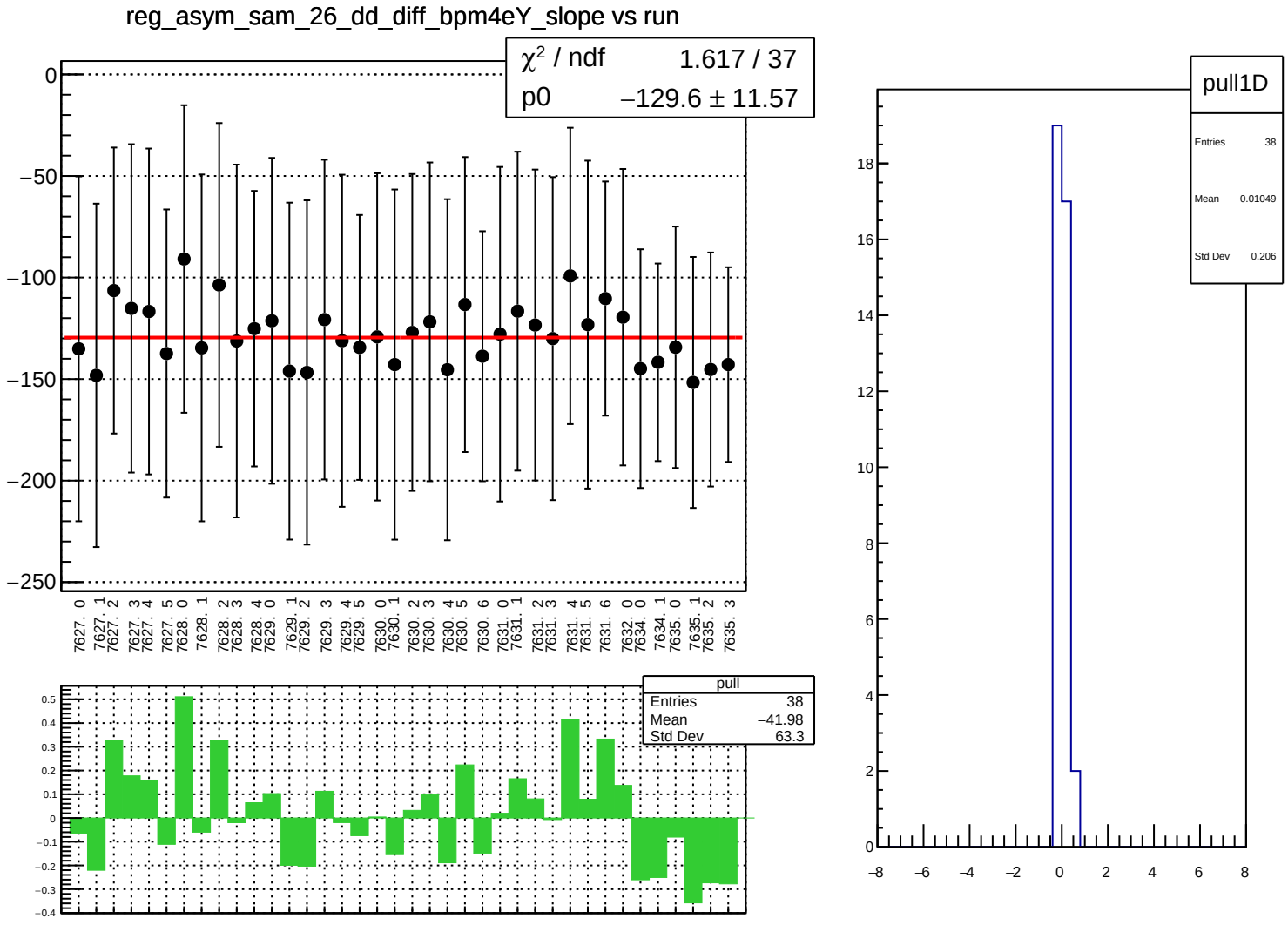

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 1.477 / 37
p0 −21.1 ± 6.224
40
20
0
−20
−40
−60
−80
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 4
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −51.26
Std Dev 73.69
0.6
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 38
Mean −0.01805
Std Dev 0.1963
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

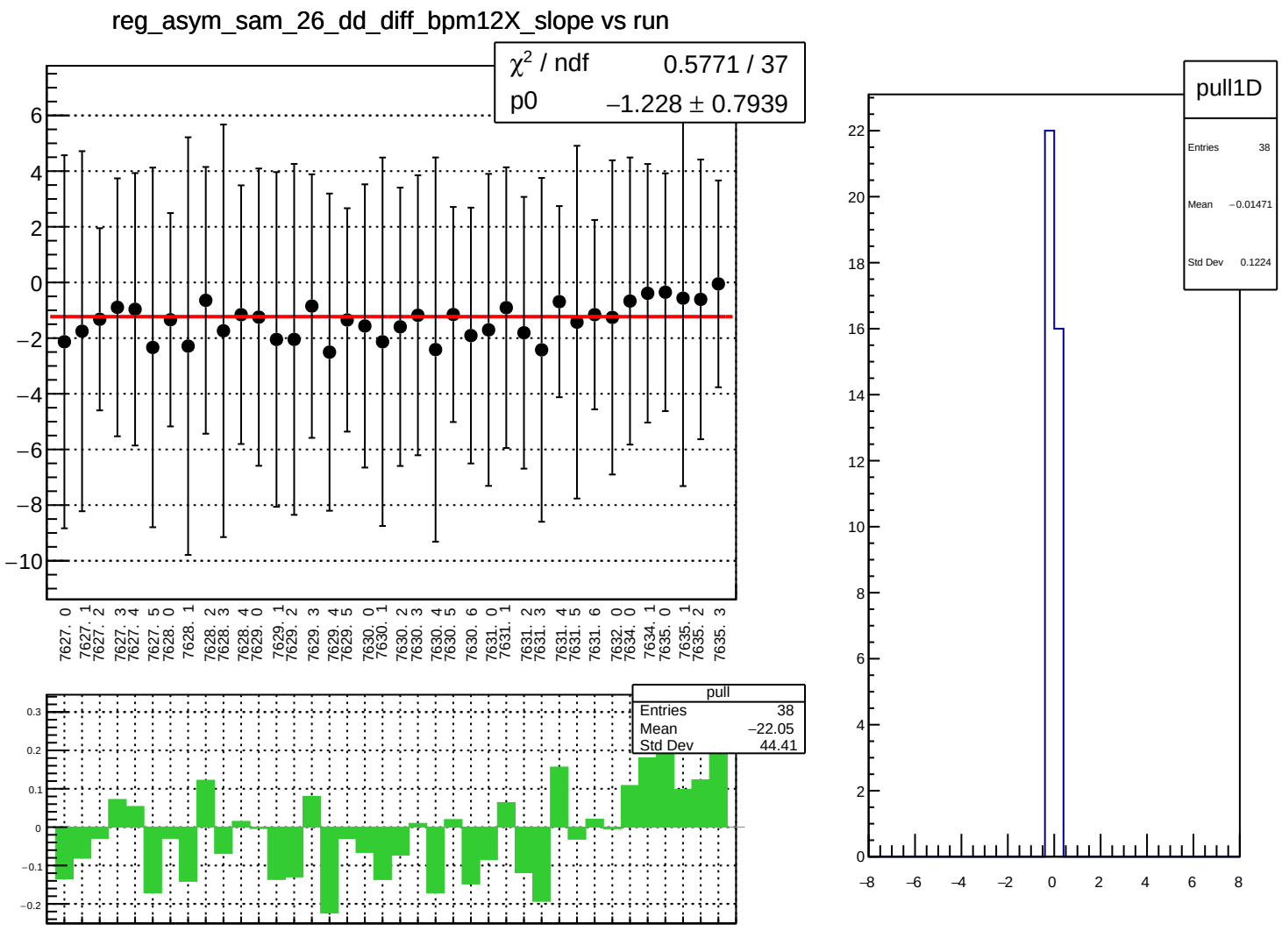

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.647 / 37
p0 −21.29 ± 7.878
pull
Entries 38
Mean −36.27
Std Dev 57.39

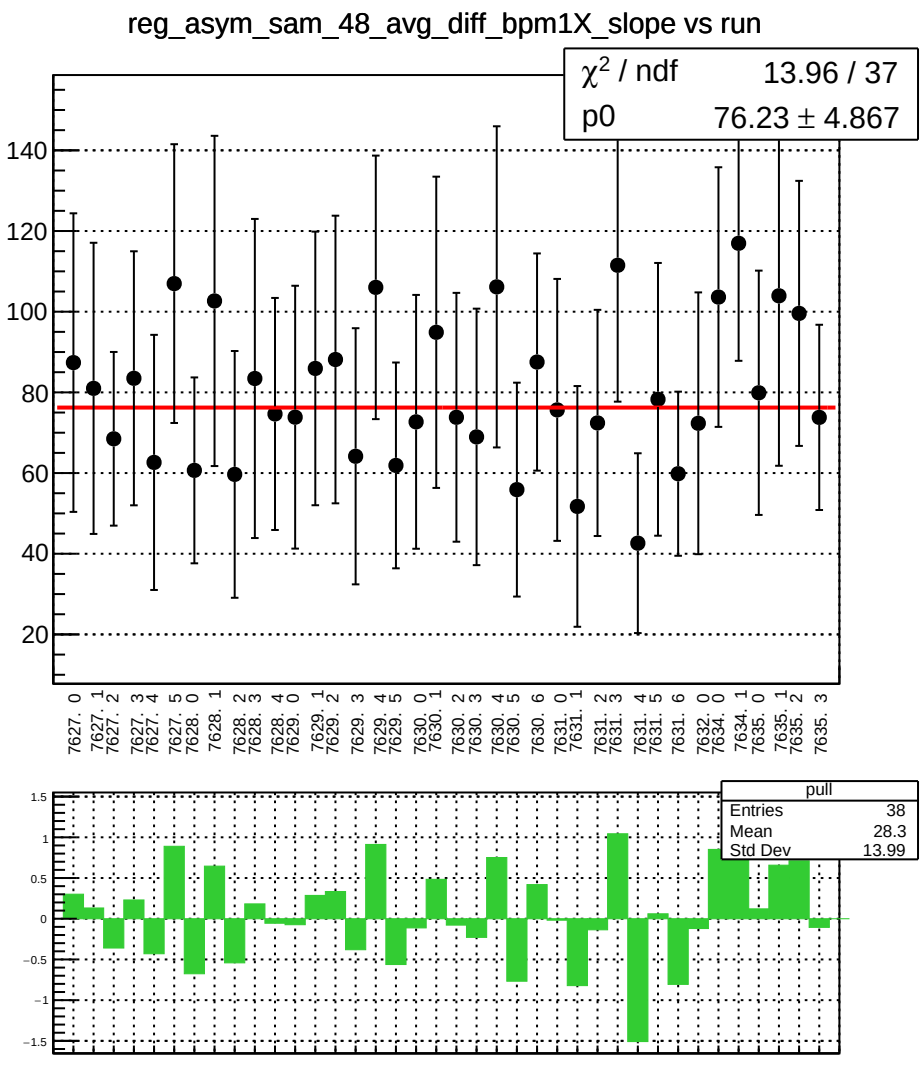

pull1D
Entries 38
Mean −0.01153
Std Dev 0.2078

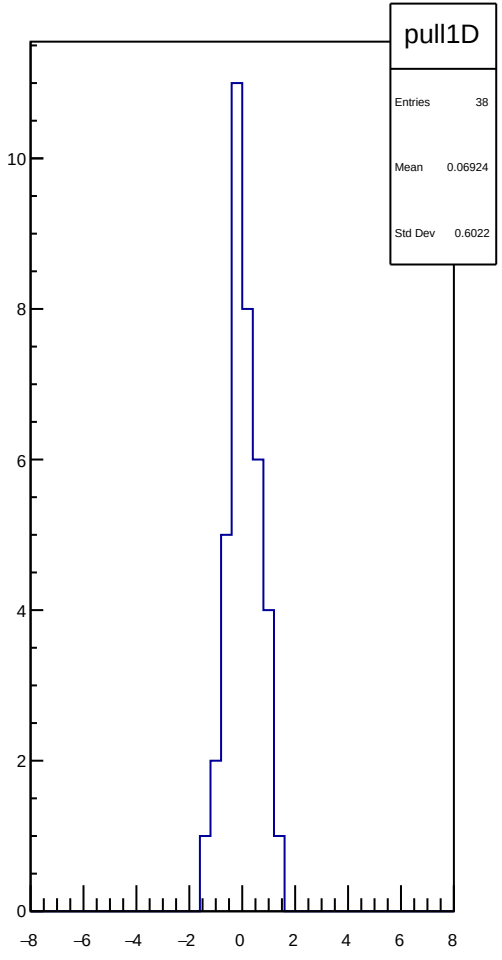

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.738 / 37
p0 −117.9 ± 4.982
−60
−80
−100
−120
−140
−160
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −39.5
Std Dev 62.05
0.2
0
−0.2
−0.4
−0.6

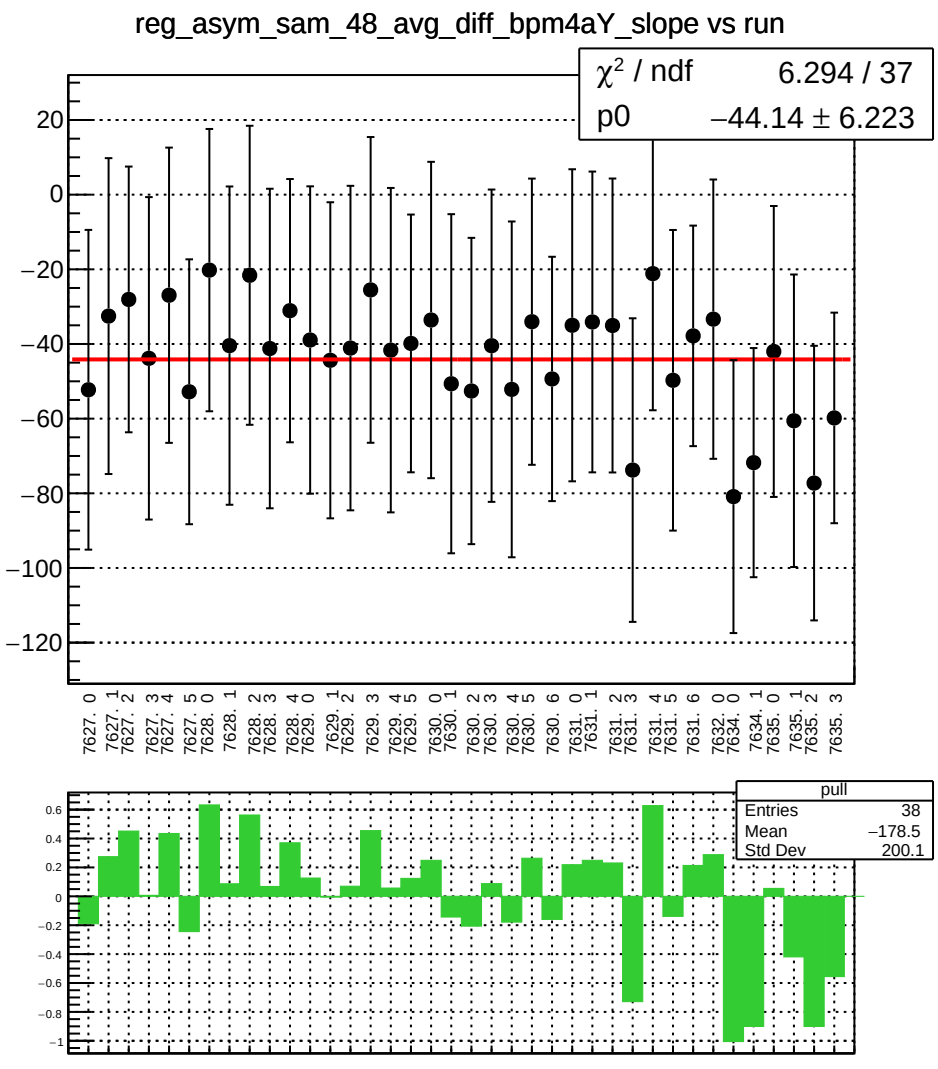

pull1D
Entries 38
Mean 0.02308
Std Dev 0.2126
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

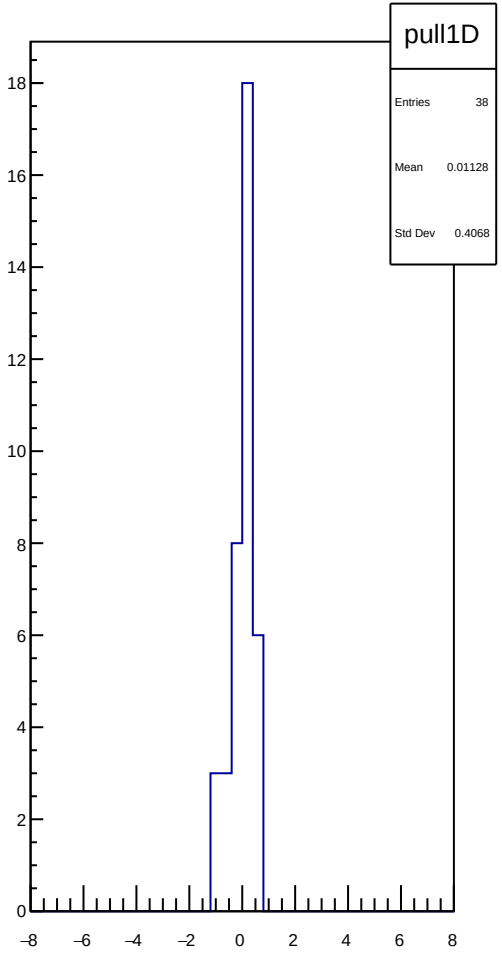

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.617 / 37
p0 −129.6 ± 11.57
0
−50
−100
−150
−200
−250
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −41.98
Std Dev 63.3
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 38
Mean 0.01049
Std Dev 0.206
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

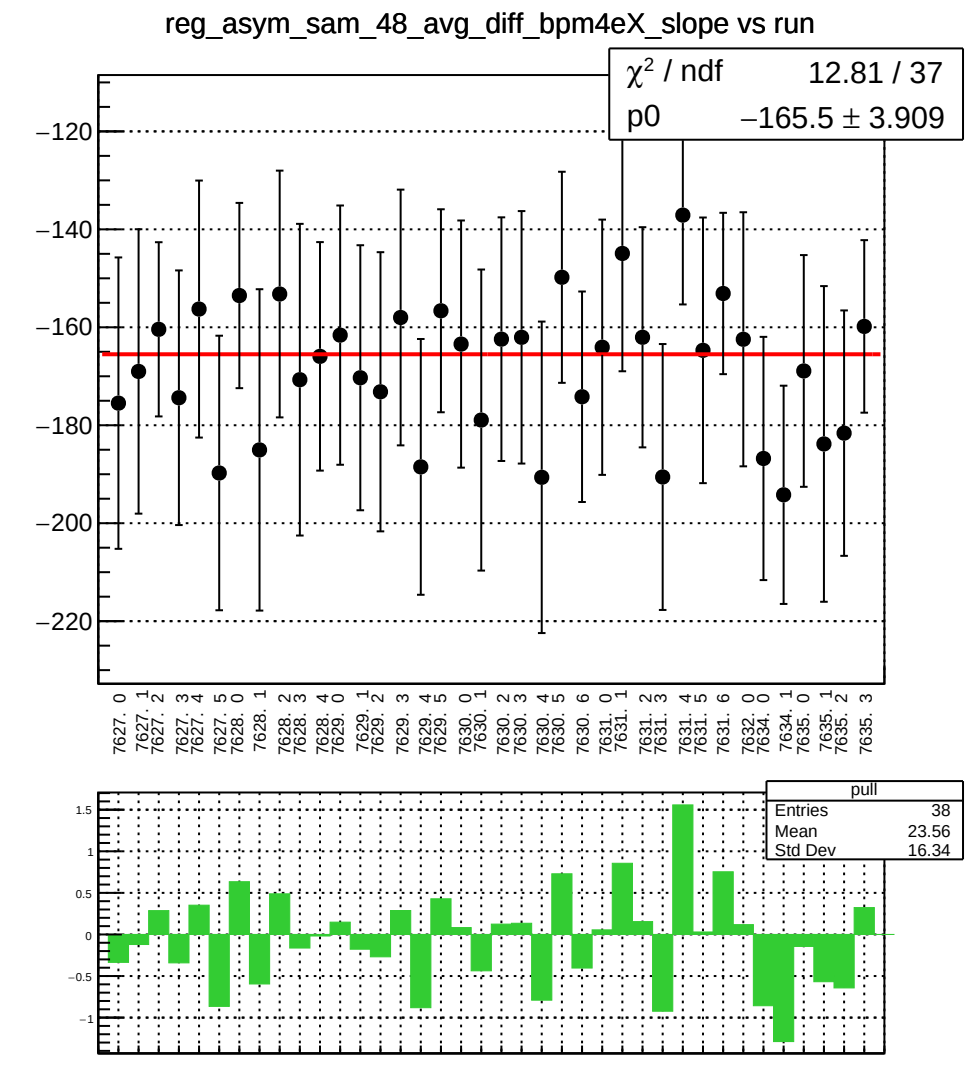

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 0.5771 / 37
p0 −1.228 ± 0.7939
pull
Entries 38
Mean −22.05
Std Dev 44.41
pull1D
Entries 38
Mean −0.01471
Std Dev 0.1224

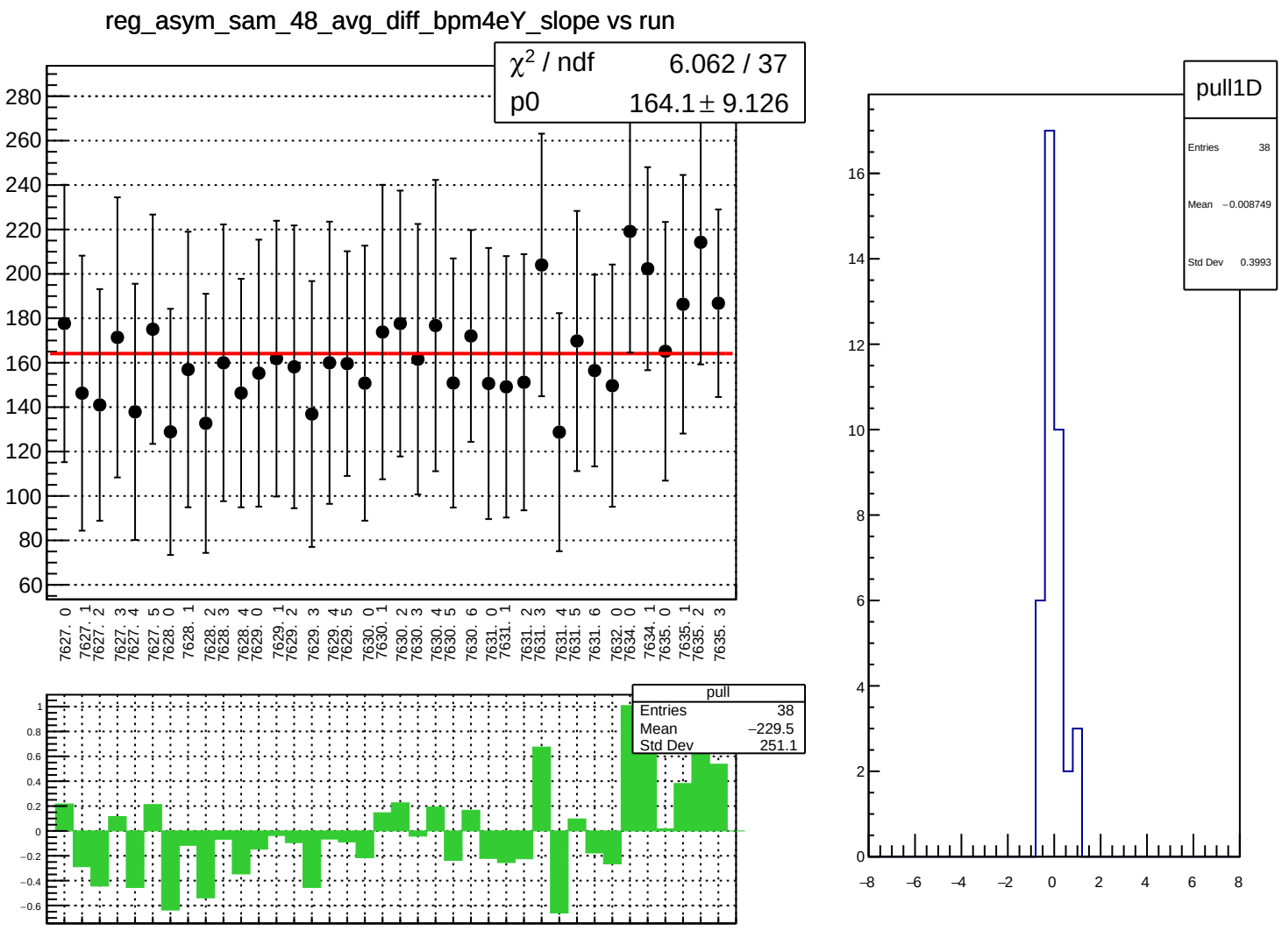

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 13.96 / 37
p0 76.23 ± 4.867
140
120
100
80
60
40
20
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 28.3
Std Dev 13.99
1.5
1
0.5
0
−0.5
−1
−1.5

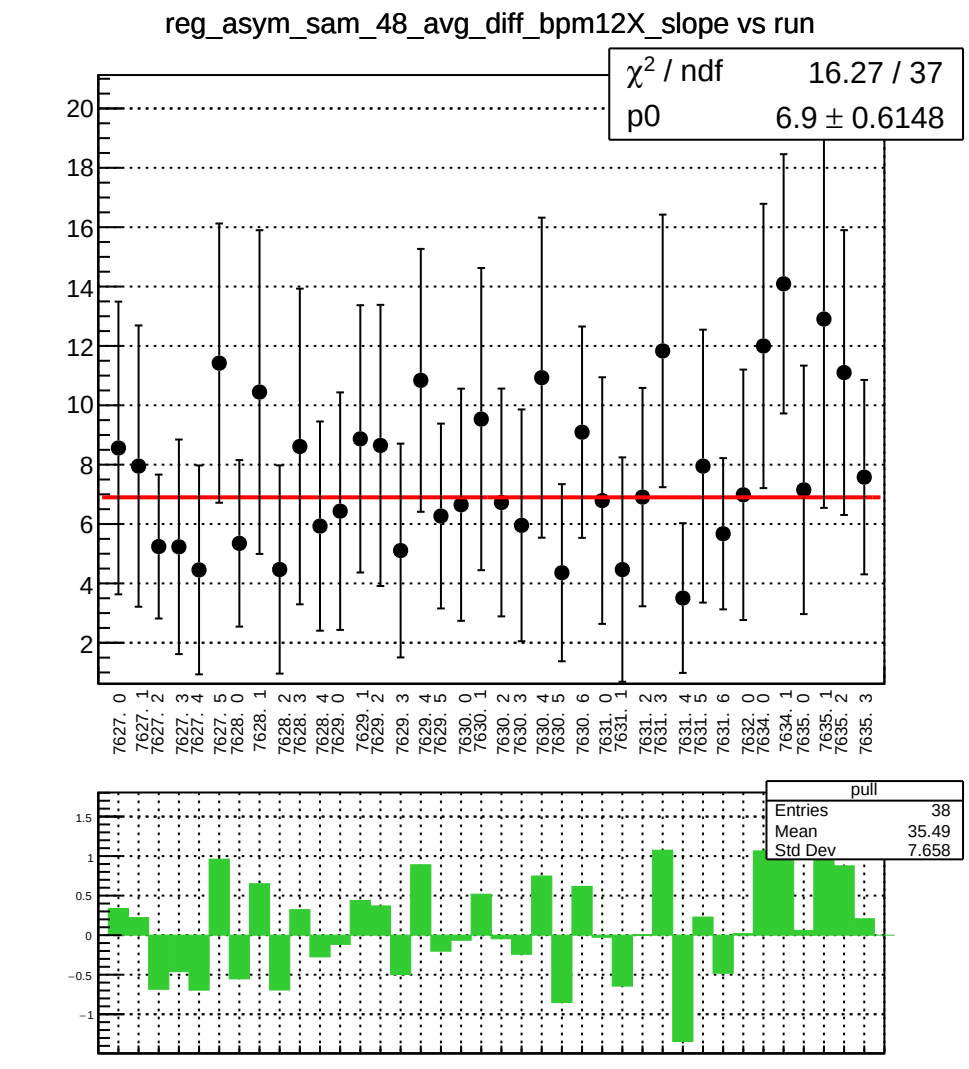

pull1D
Entries 38
Mean 0.06924
Std Dev 0.6022
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

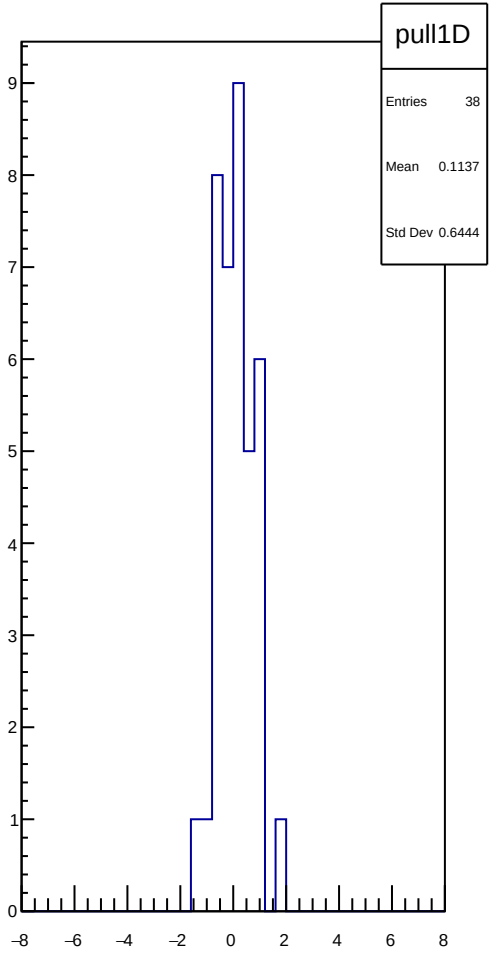

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.294 / 37
p0 −44.14 ± 6.223
pull
Entries 38
Mean −178.5
Std Dev 200.1

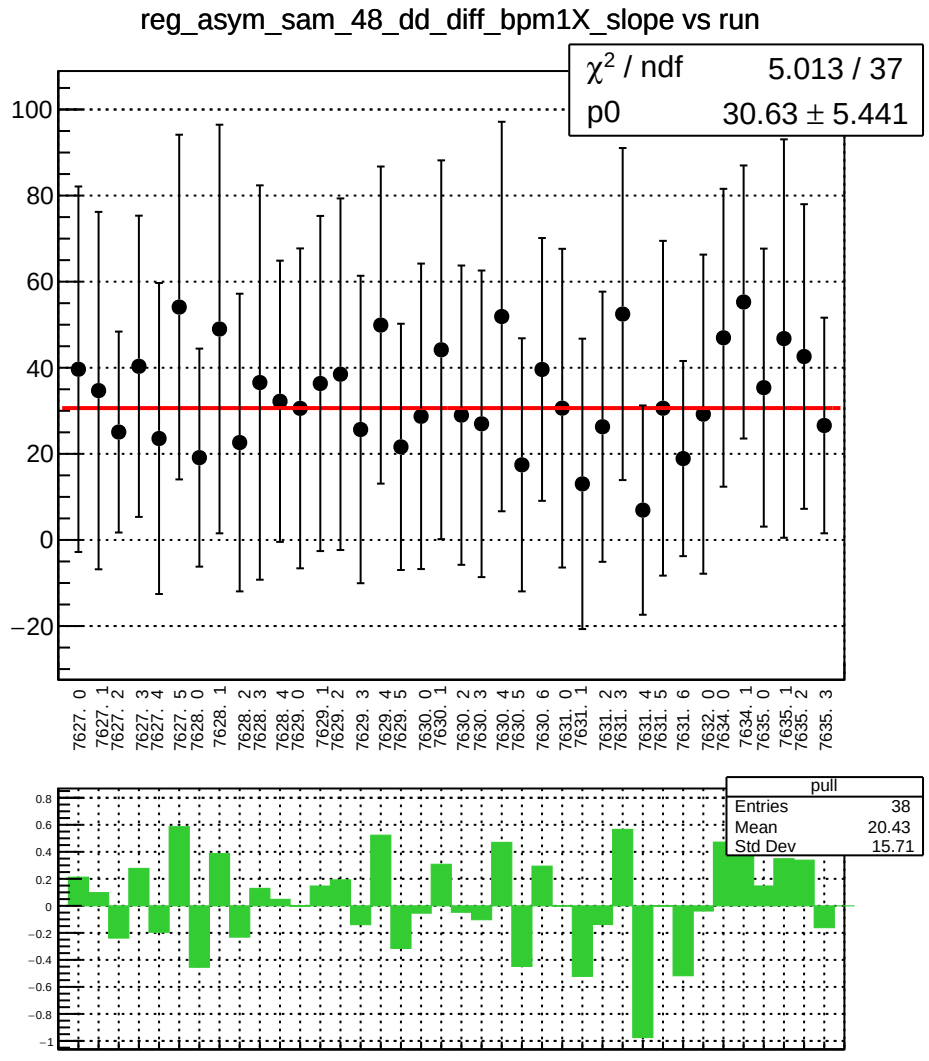

pull1D
Entries 38
Mean 0.01128
Std Dev 0.4068

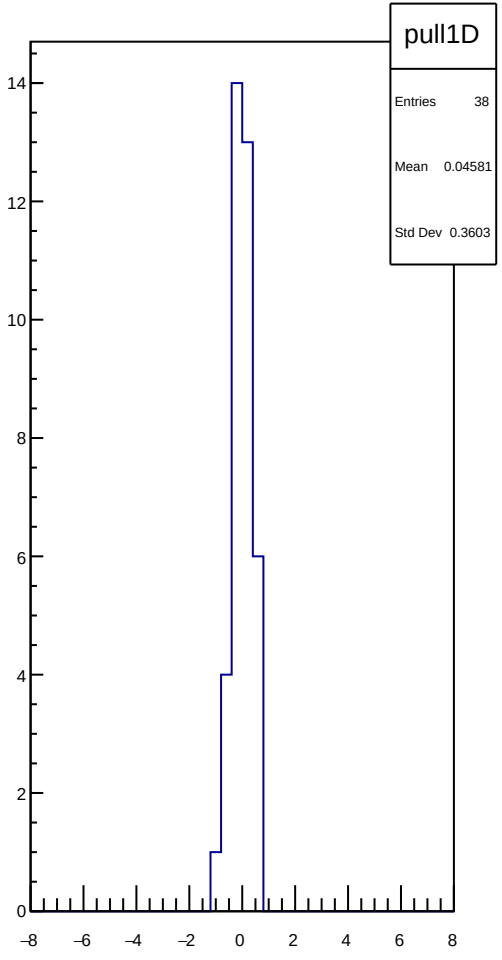

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 12.81 / 37
p0 −165.5 ± 3.909
−120
−140
−160
−180
−200
−220
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 4
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 23.56
Std Dev 16.34
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 38
Mean −0.05992
Std Dev 0.5775
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

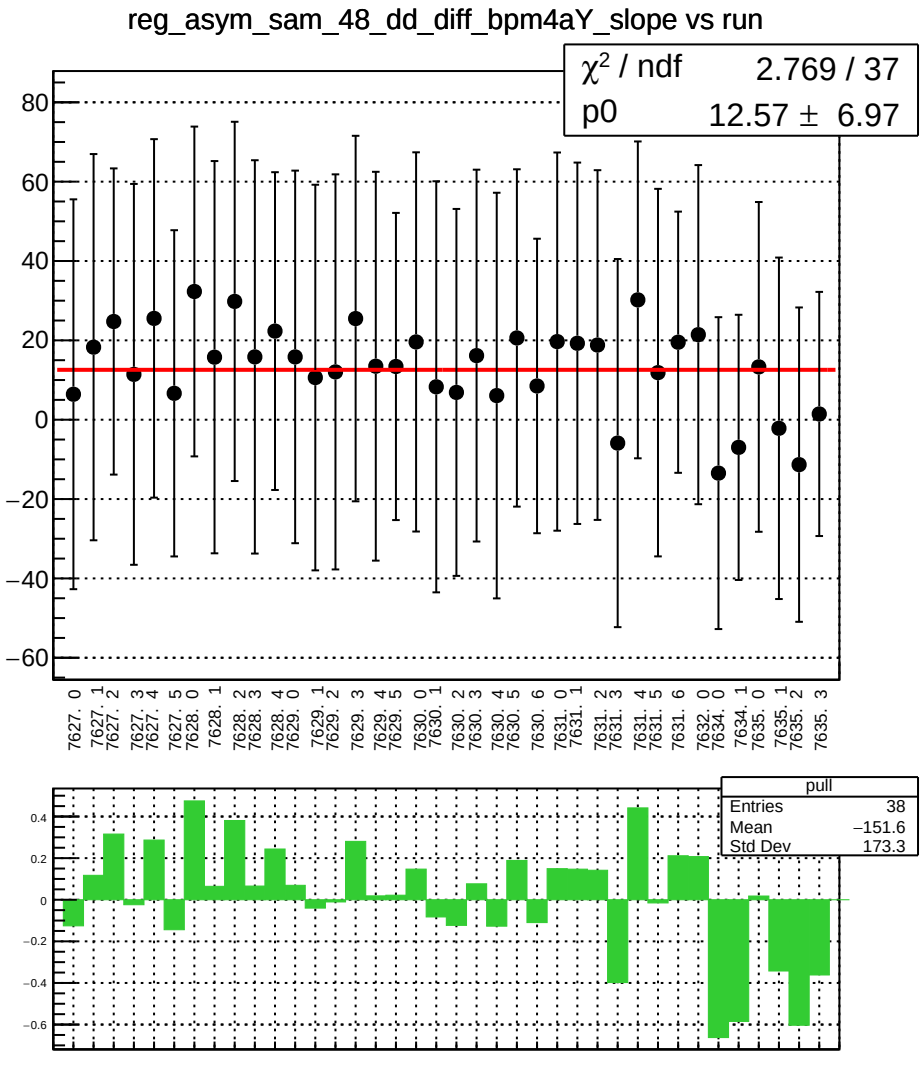

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.062 / 37
p0 164.1 ± 9.126
pull
Entries 38
Mean −229.5
Std Dev 251.1
pull1D
Entries 38
Mean −0.008749
Std Dev 0.3993

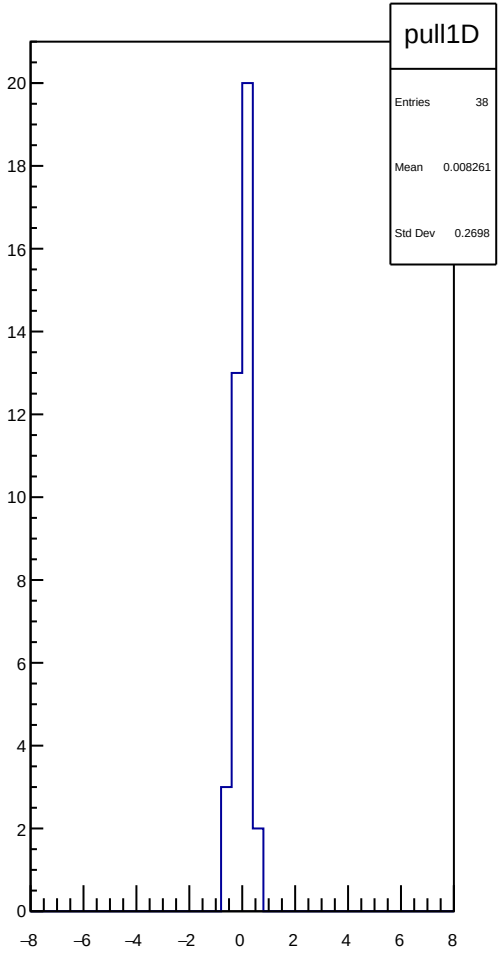

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 16.27 / 37
p0 6.9 ± 0.6148
pull
Entries 38
Mean 35.49
Std Dev 7.658

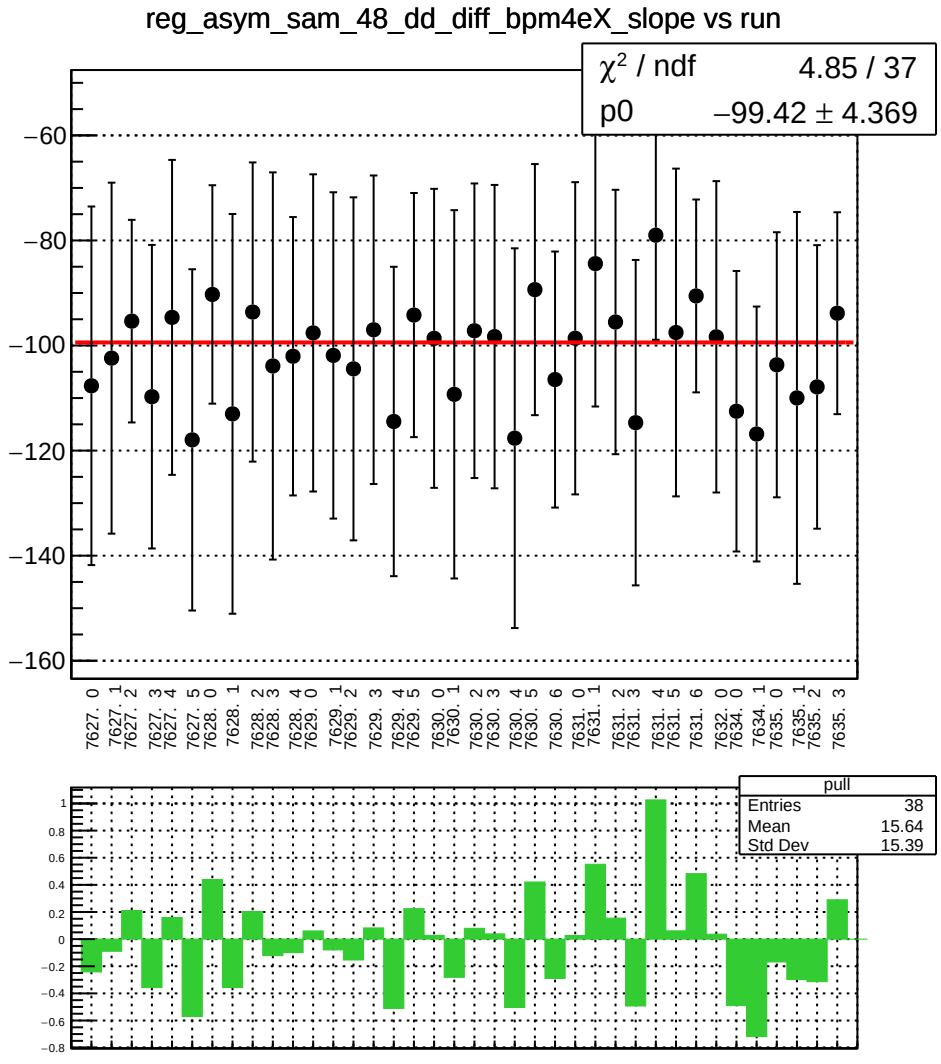

pull1D
Entries 38
Mean 0.1137
Std Dev 0.6444

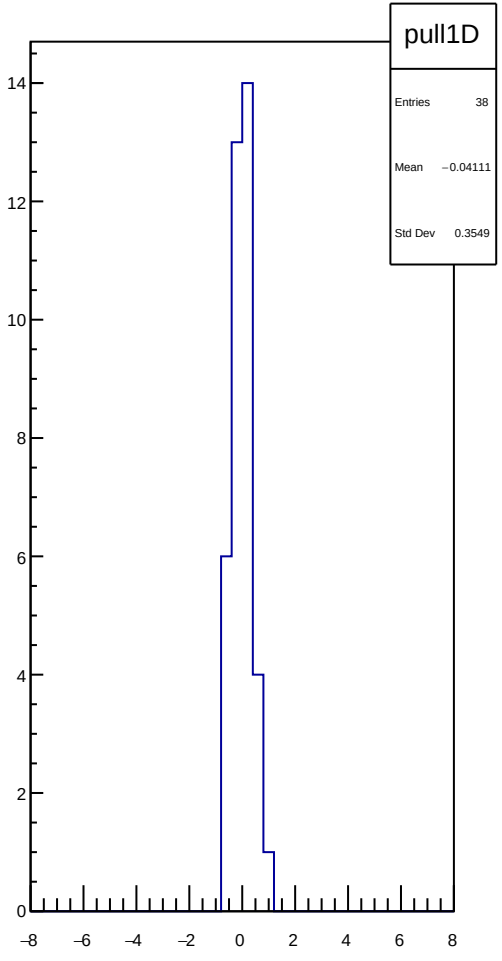

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 5.013 / 37
p0 30.63 ± 5.441
pull
Entries 38
Mean 20.43
Std Dev 15.71

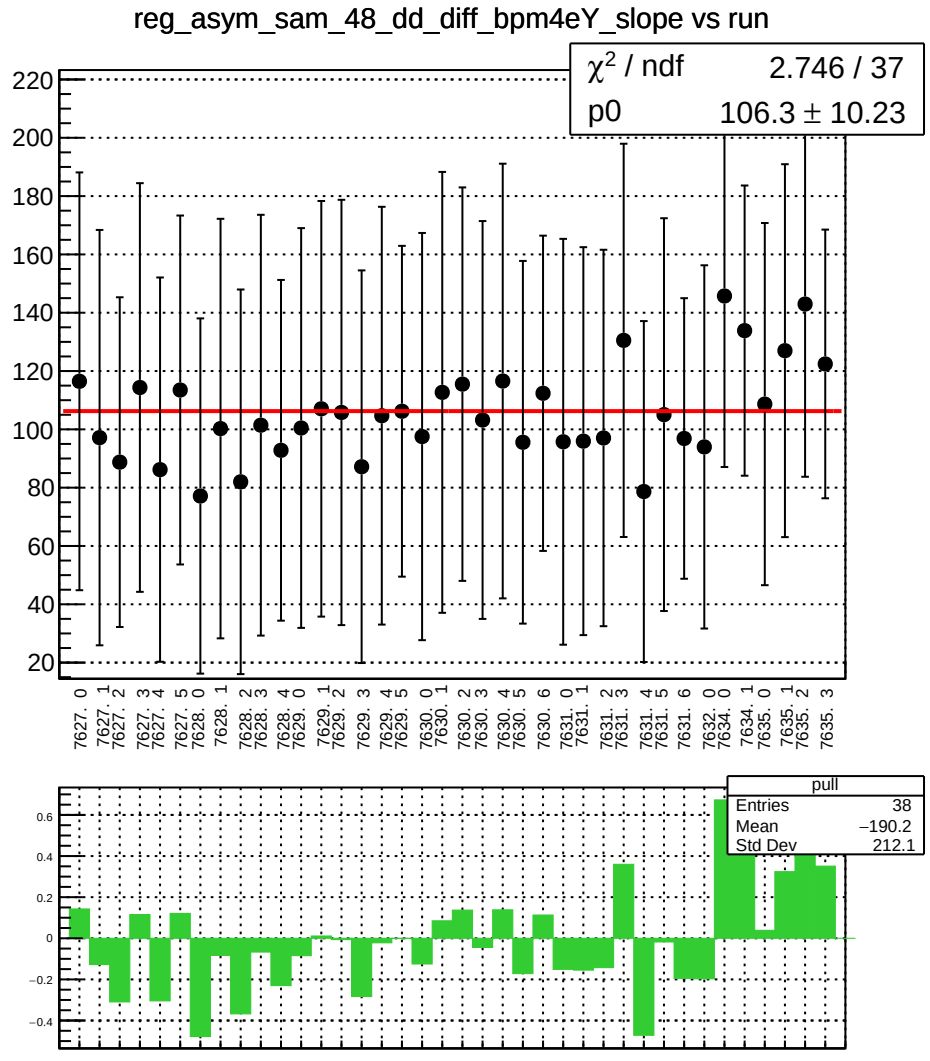

pull1D
Entries 38
Mean 0.04581
Std Dev 0.3603

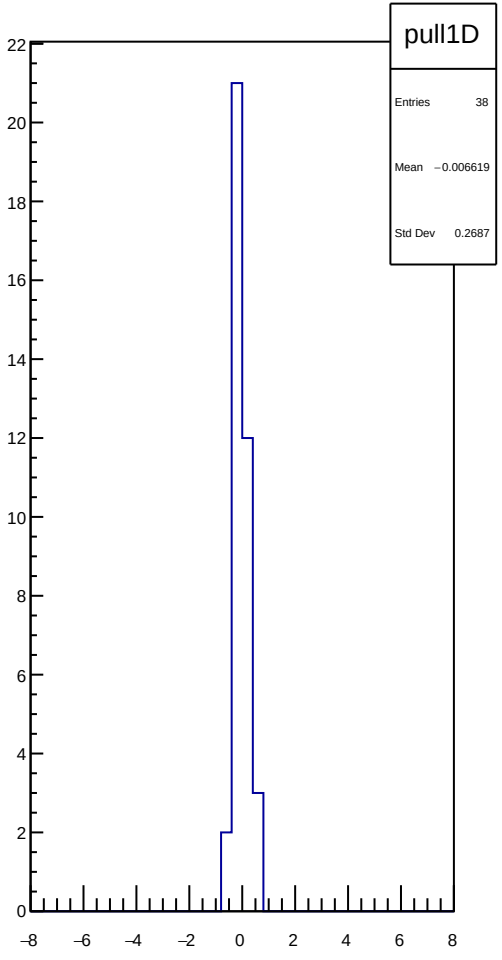

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.769 / 37
p0 12.57 ± 6.97
pull
Entries 38
Mean −151.6
Std Dev 173.3

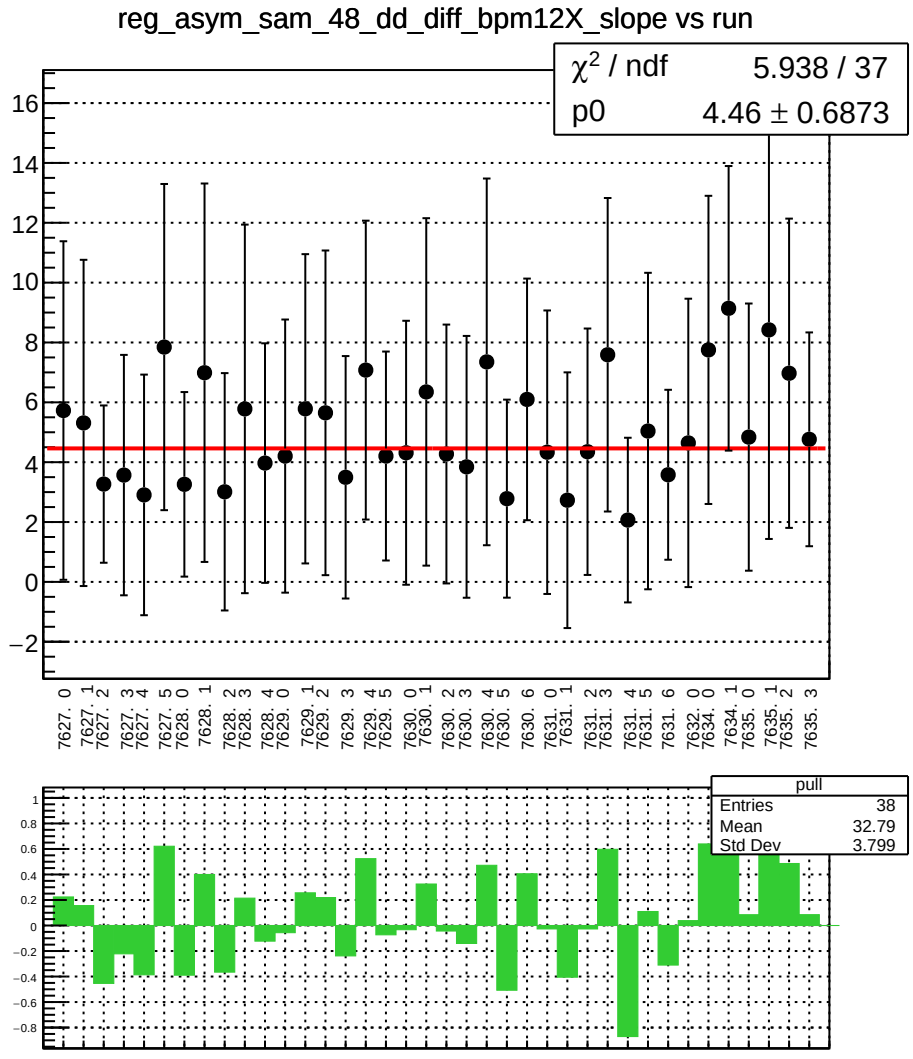

pull1D
Entries 38
Mean 0.008261
Std Dev 0.2698

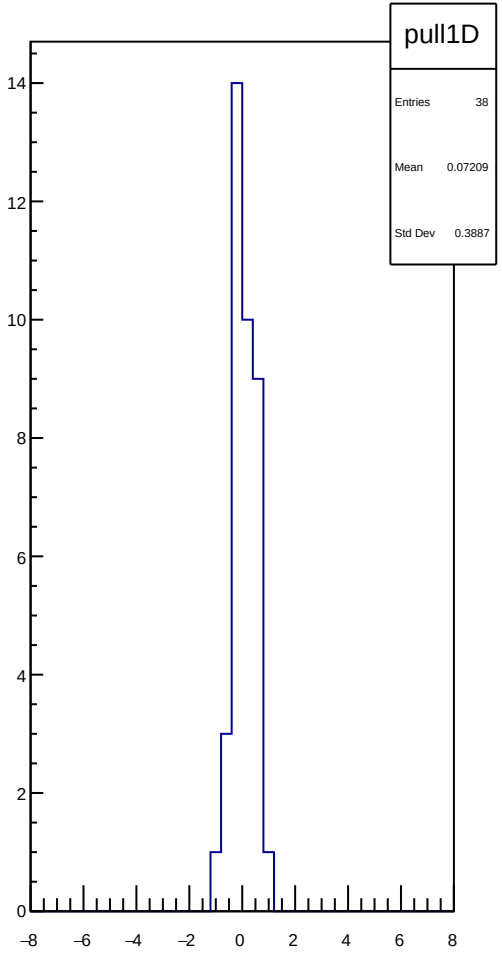

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.85 / 37
p0 −99.42 ± 4.369
pull
Entries 38
Mean 15.64
Std Dev 15.39

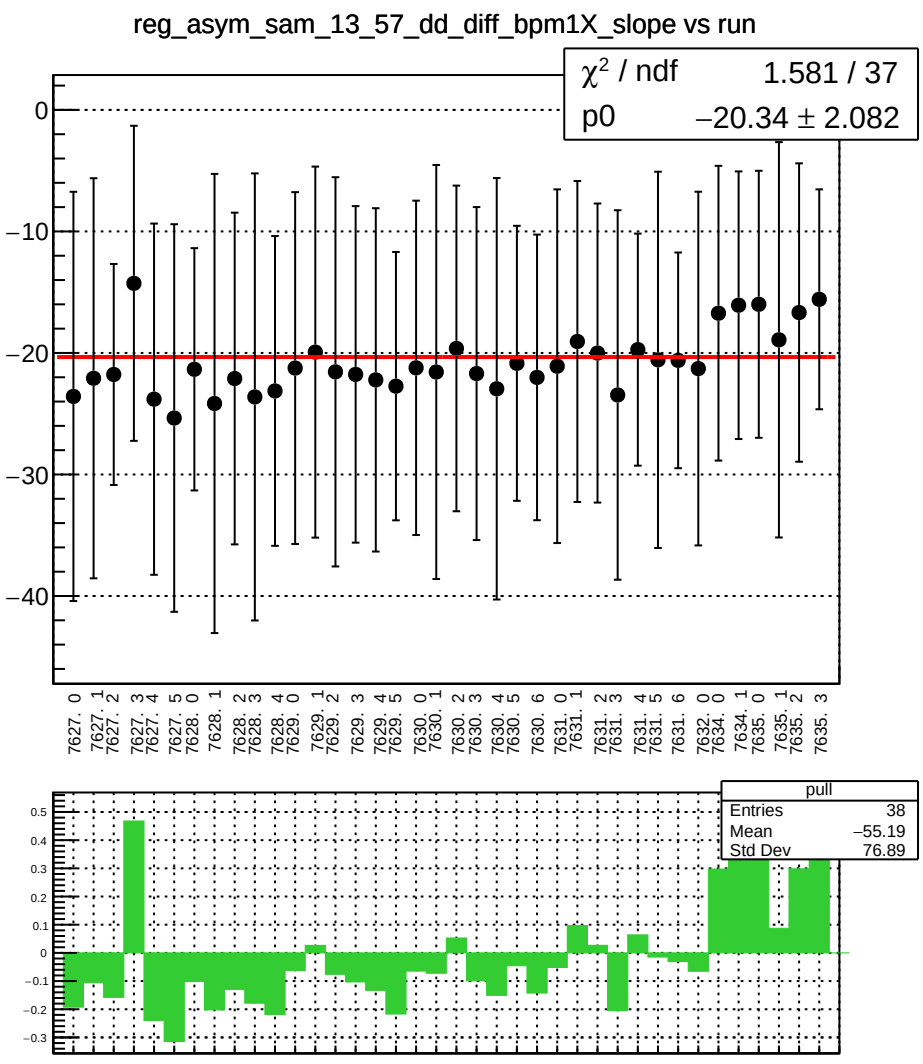

pull1D
Entries 38
Mean −0.04111
Std Dev 0.3549

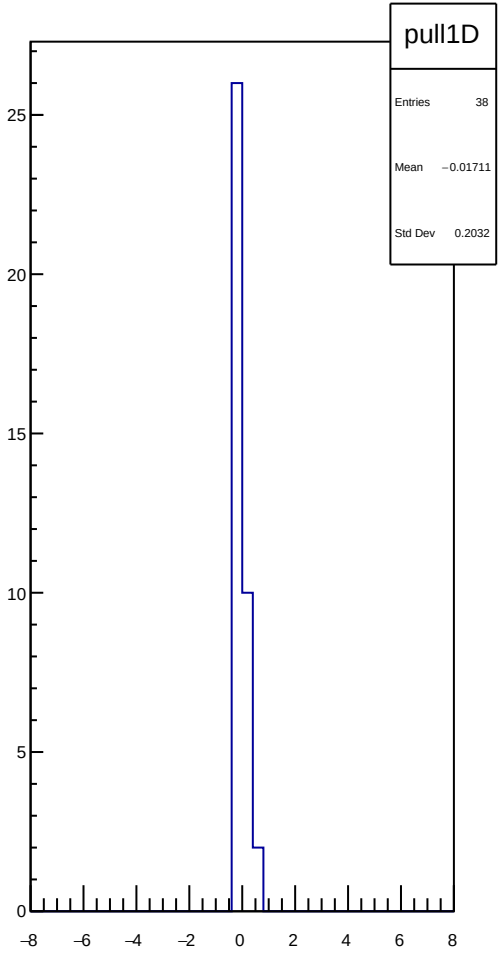

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.746 / 37
p0 106.3 ± 10.23
pull
Entries 38
Mean −190.2
Std Dev 212.1

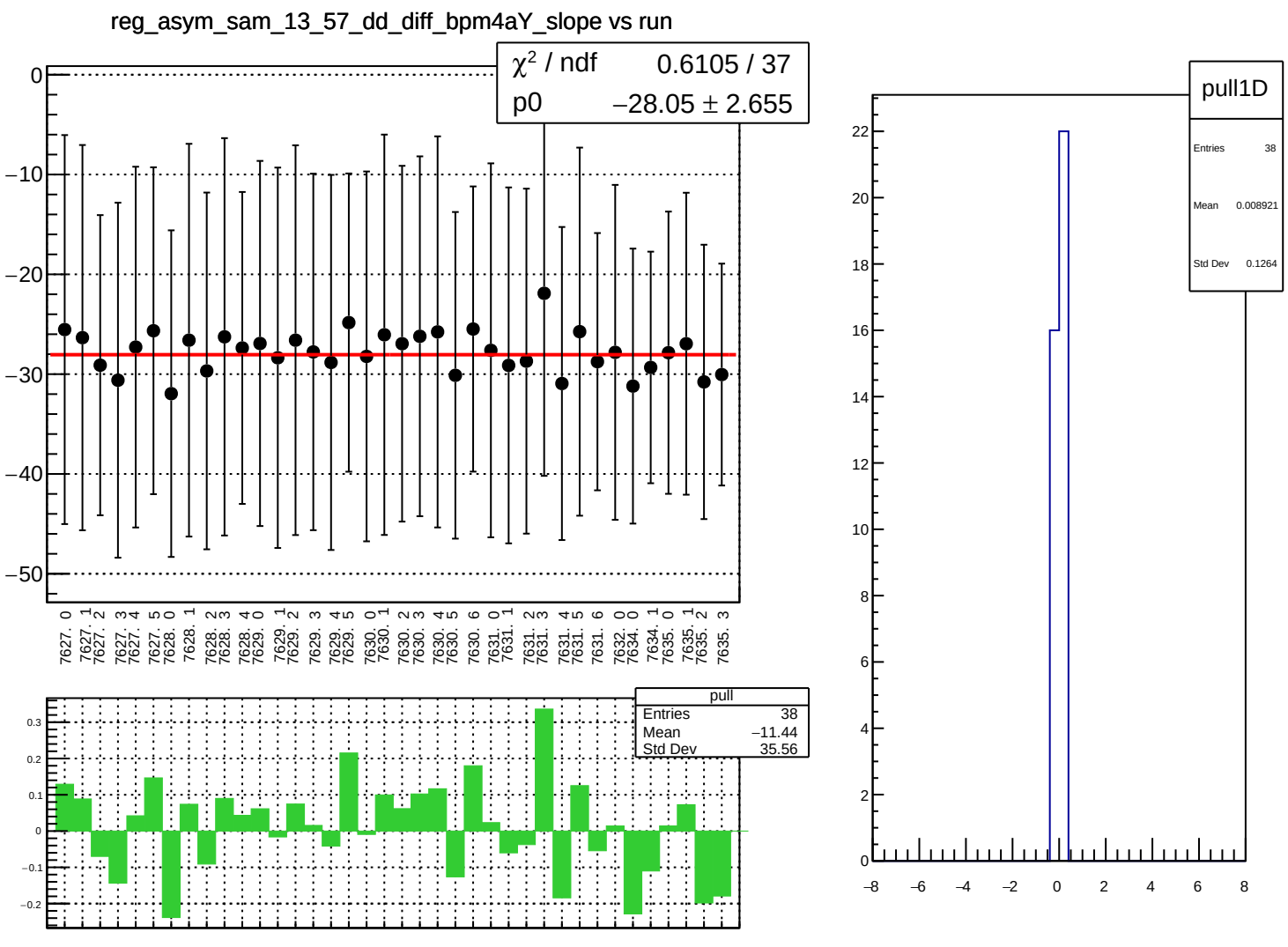

pull1D
Entries 38
Mean −0.006619
Std Dev 0.2687

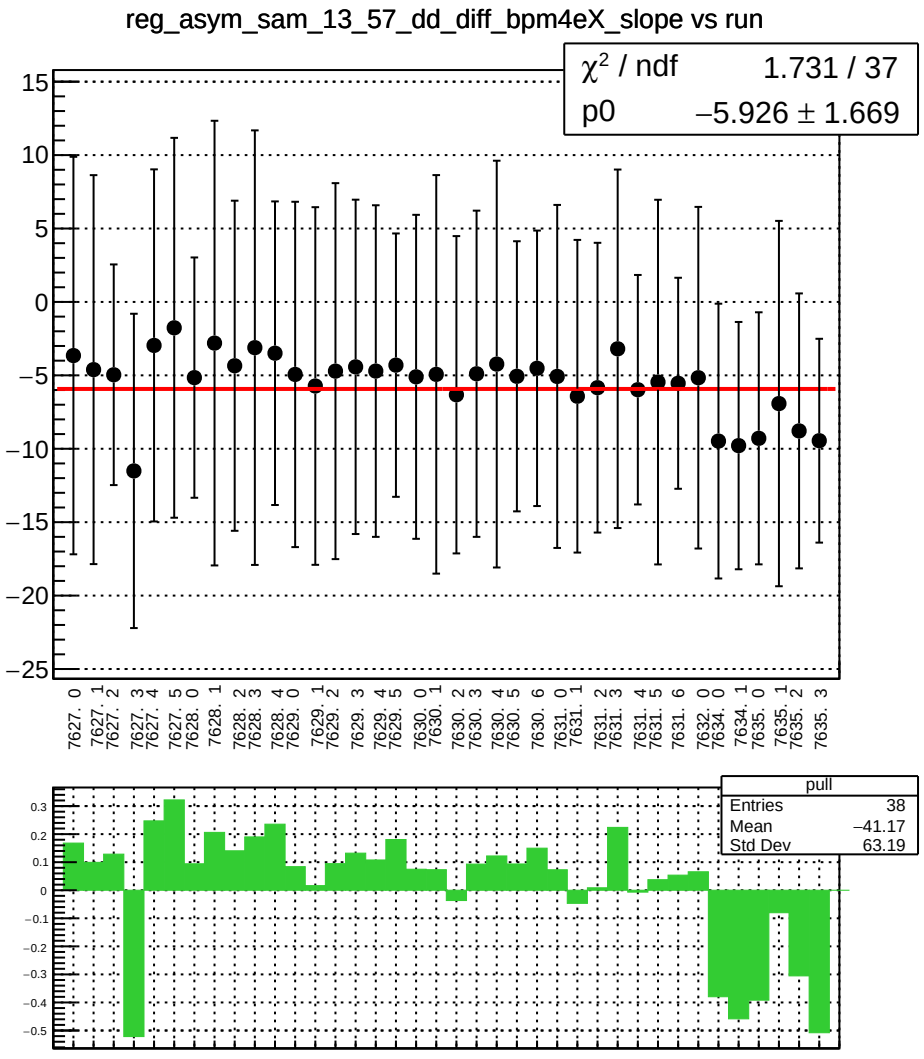

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 5.938 / 37
p0 4.46 ± 0.6873
pull
Entries 38
Mean 32.79
Std Dev 3.799

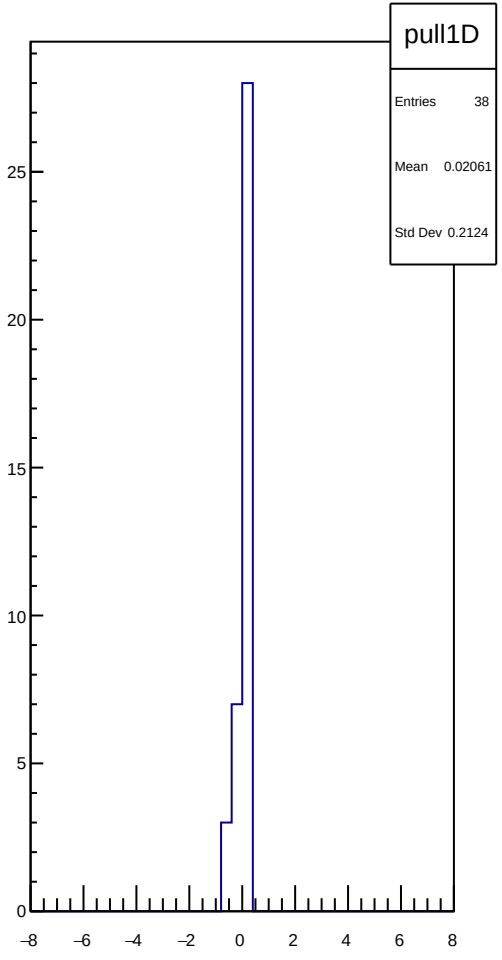

pull1D
Entries 38
Mean 0.07209
Std Dev 0.3887

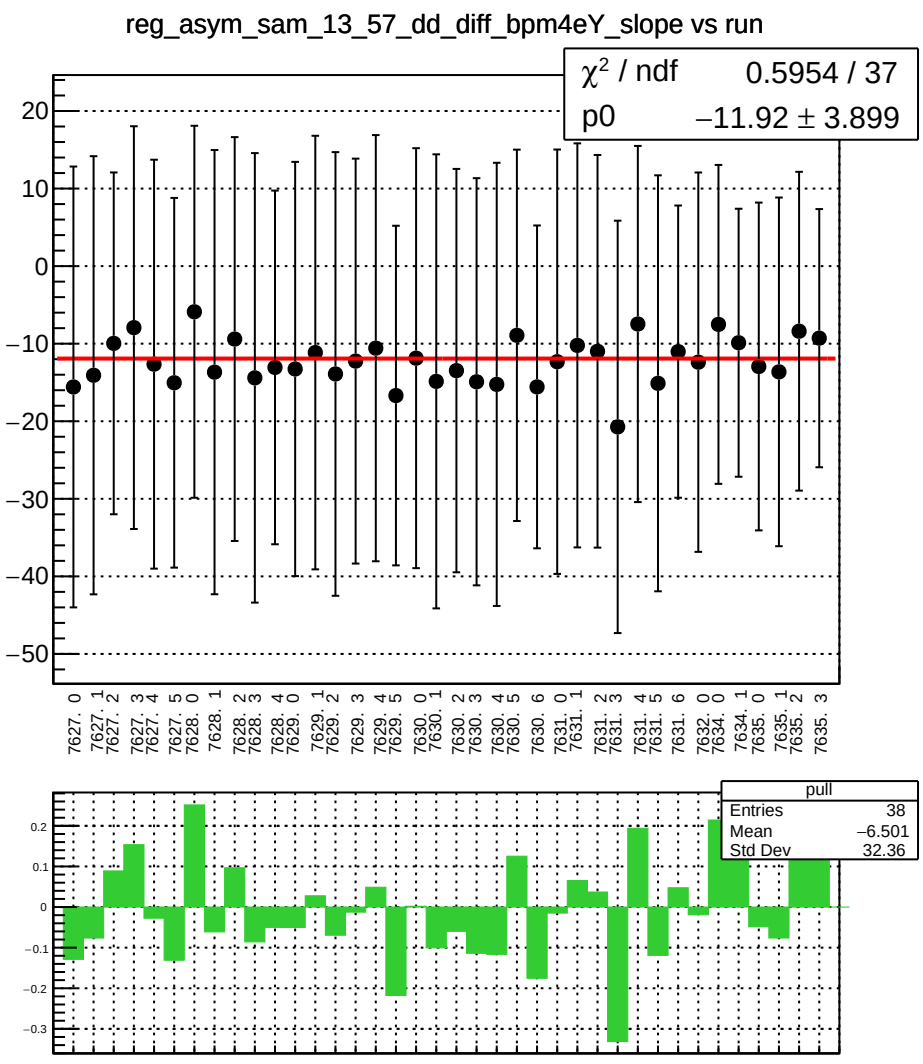

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 1.581 / 37
p0 −20.34 ± 2.082
0
−10
−20
−30
−40
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −55.19
Std Dev 76.89
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

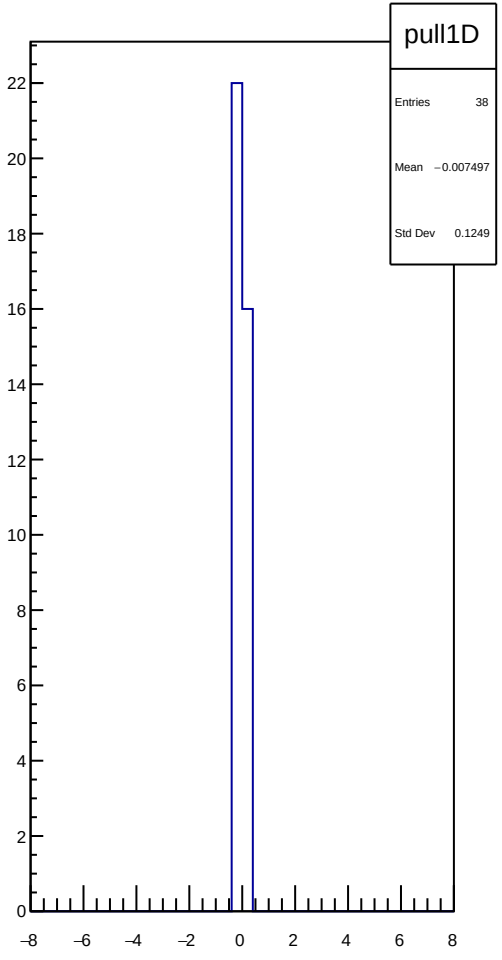

pull1D
Entries 38
Mean −0.01711
Std Dev 0.2032
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

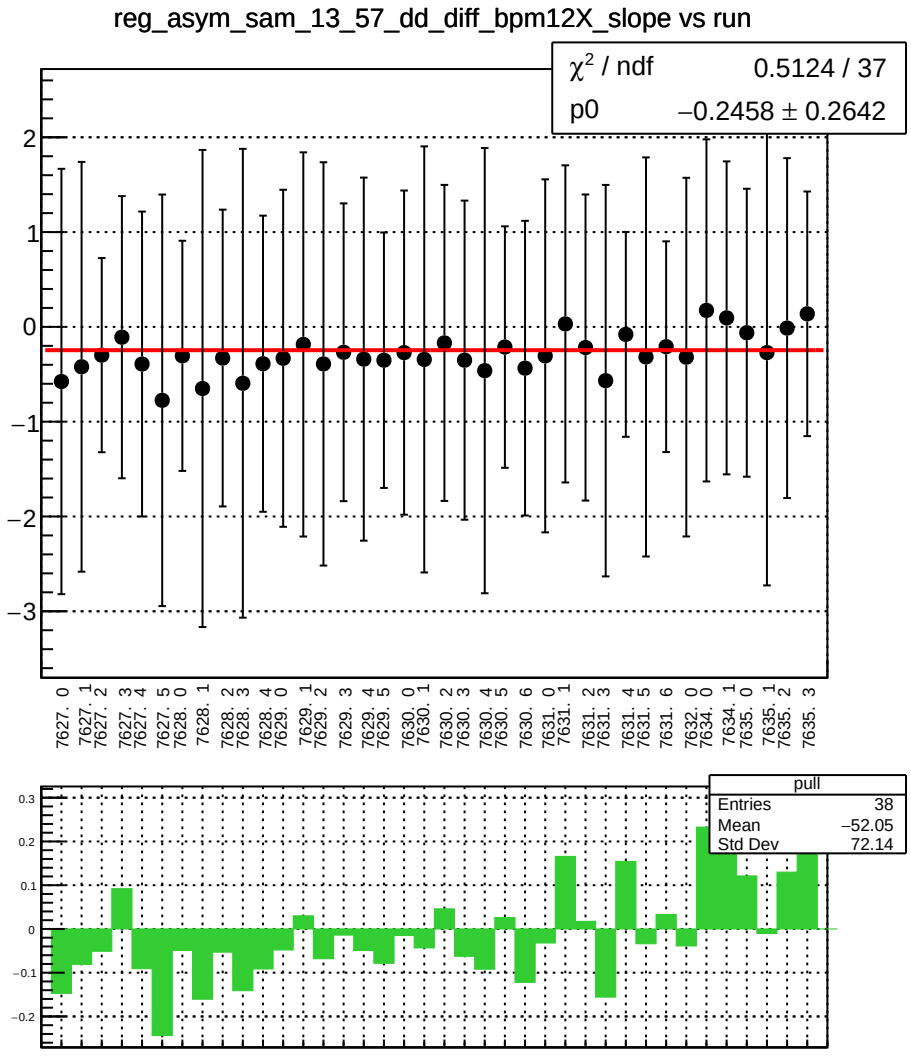

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.6105 / 37
p0 −28.05 ± 2.655
pull
Entries 38
Mean −11.44
Std Dev 35.56
pull1D
Entries 38
Mean 0.008921
Std Dev 0.1264

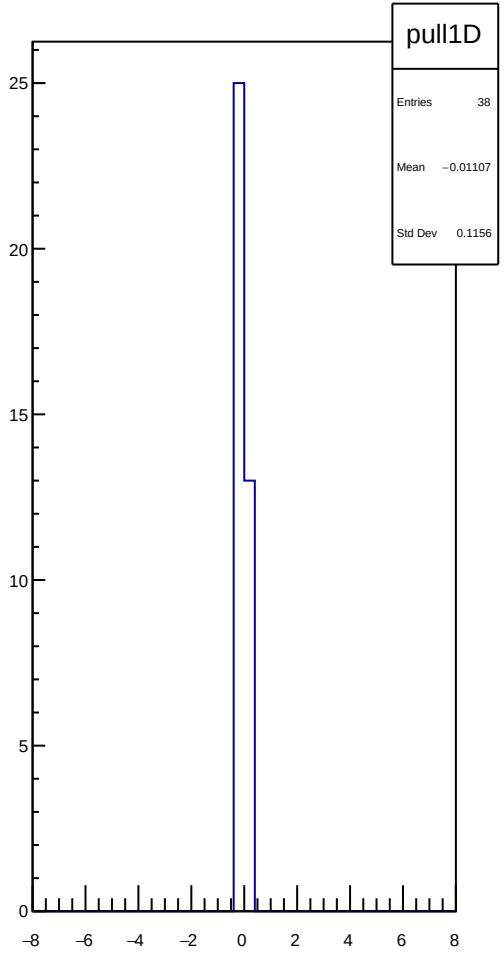

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.731 / 37
p0 −5.926 ± 1.669
pull
Entries 38
Mean −41.17
Std Dev 63.19

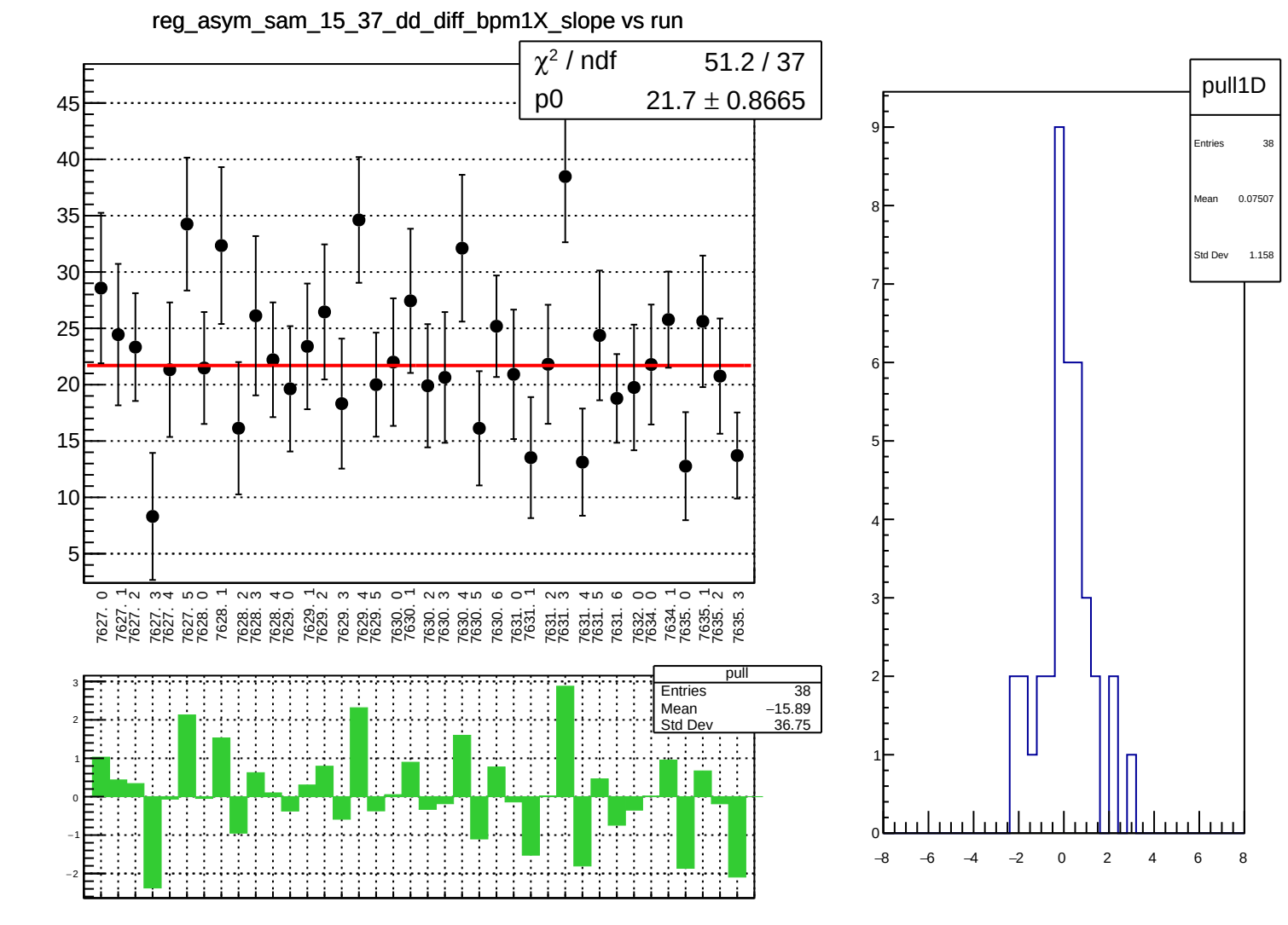

pull1D
Entries 38
Mean 0.02061
Std Dev 0.2124

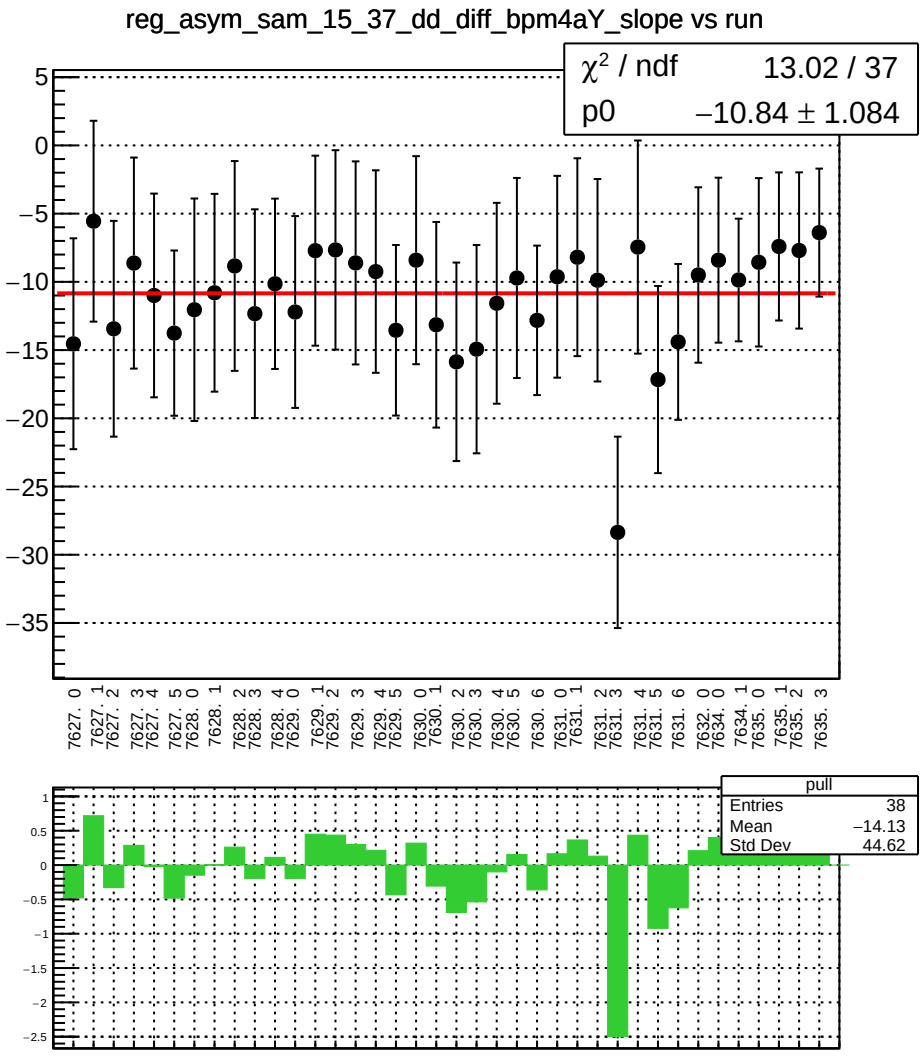

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.5954 / 37
p0 −11.92 ± 3.899
pull
Entries 38
Mean −6.501
Std Dev 32.36

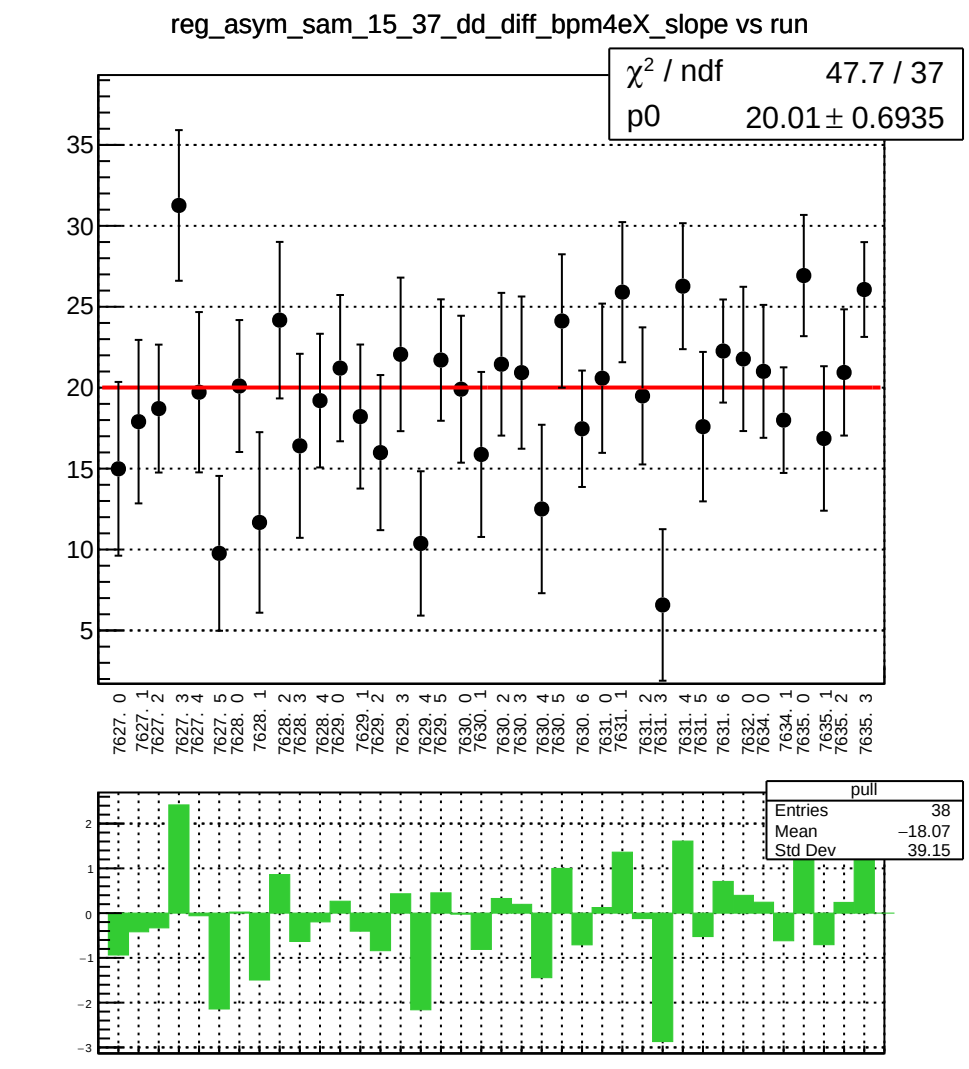

pull1D
Entries 38
Mean −0.007497
Std Dev 0.1249

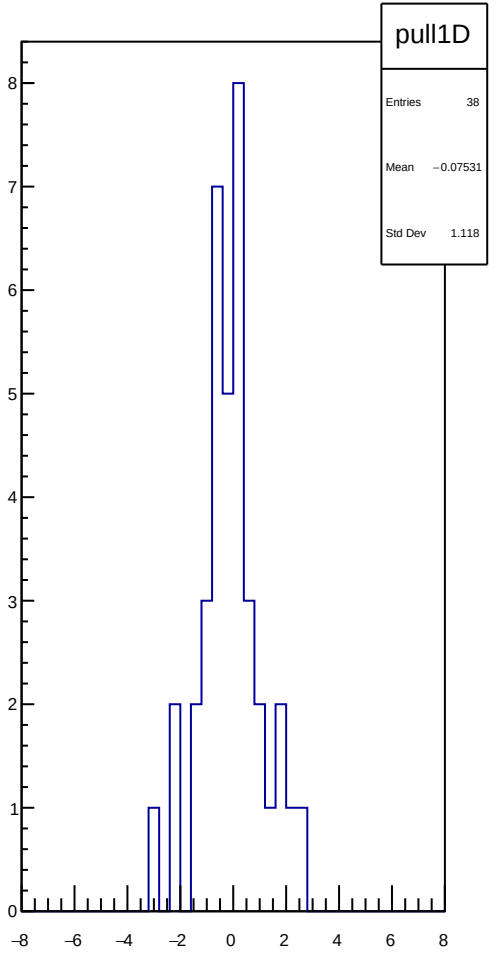

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 0.5124 / 37
p0 −0.2458 ± 0.2642
pull
Entries 38
Mean −52.05
Std Dev 72.14

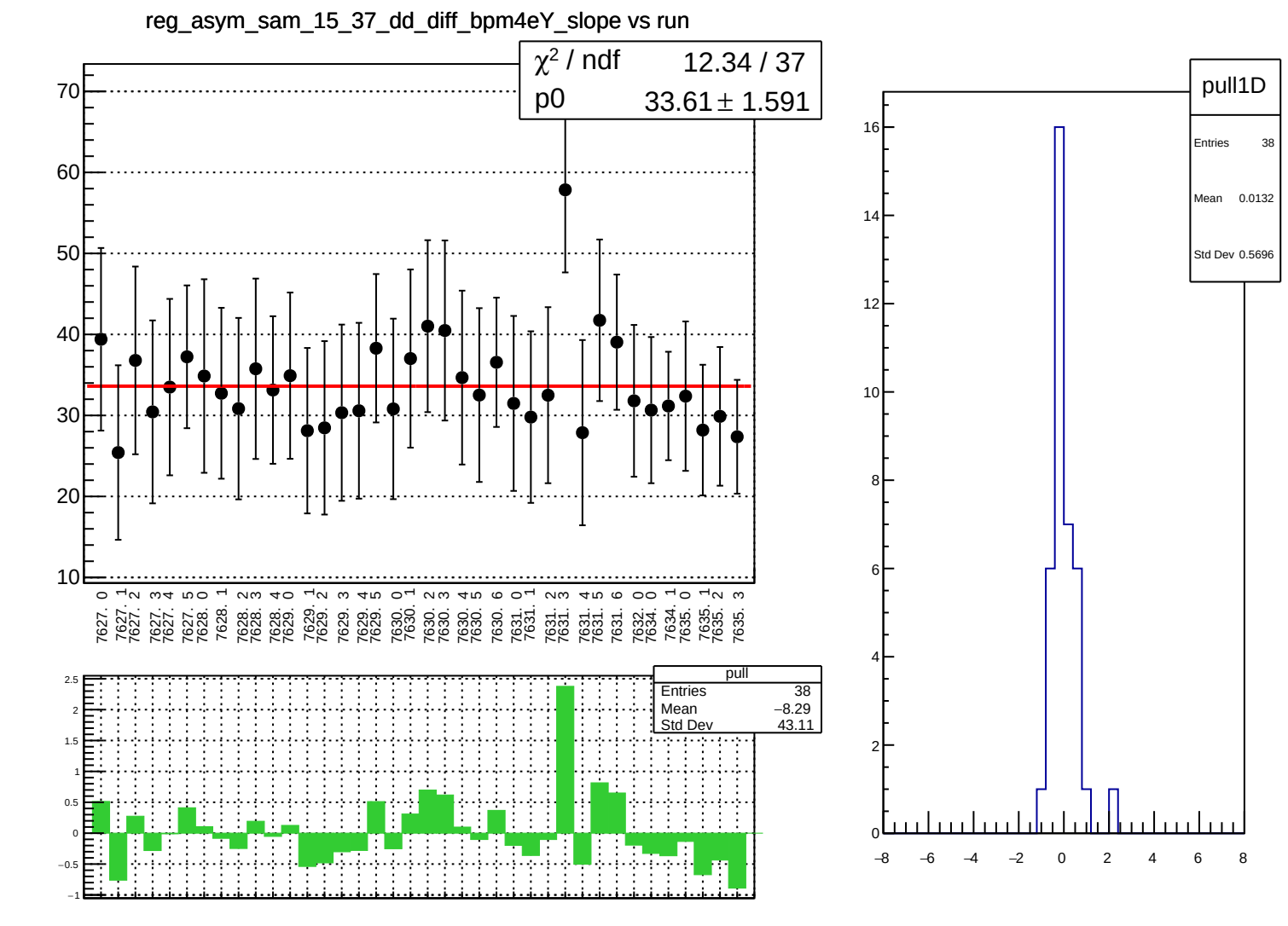

pull1D
Entries 38
Mean −0.01107
Std Dev 0.1156

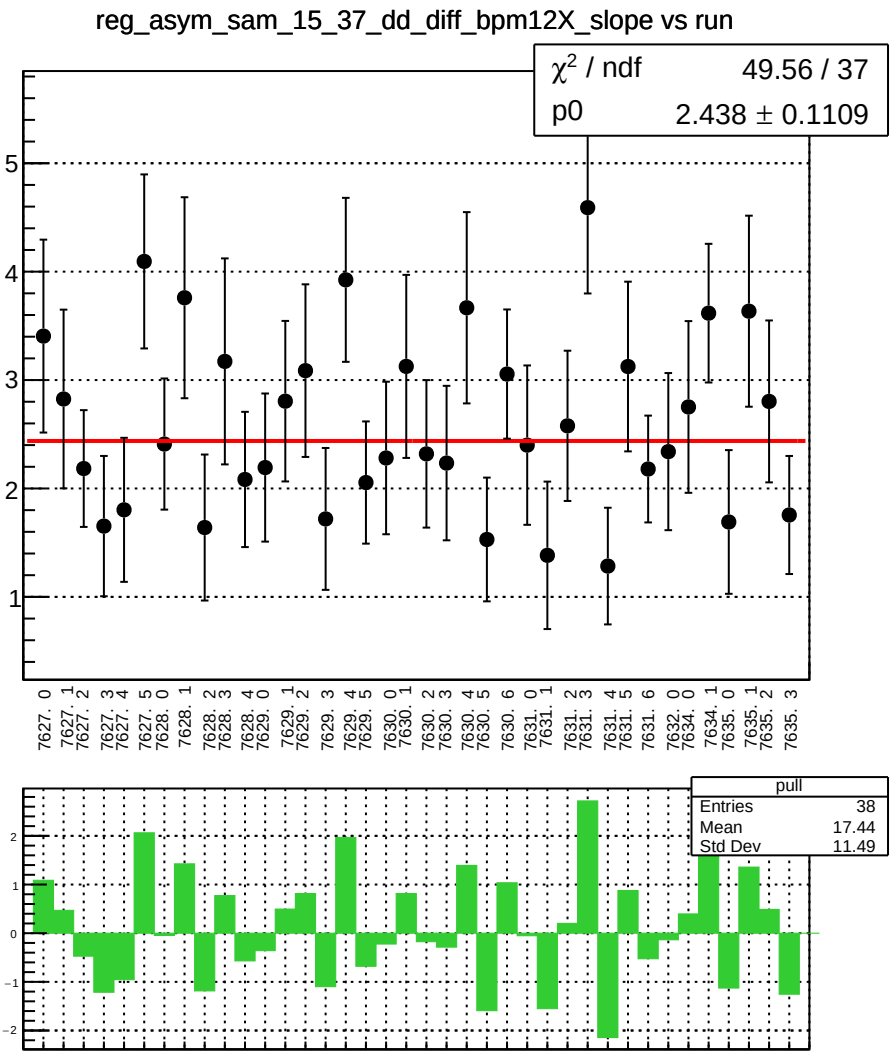

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 51.2 / 37
p0 21.7 ± 0.8665
pull
Entries 38
Mean −15.89
Std Dev 36.75
pull1D
Entries 38
Mean 0.07507
Std Dev 1.158

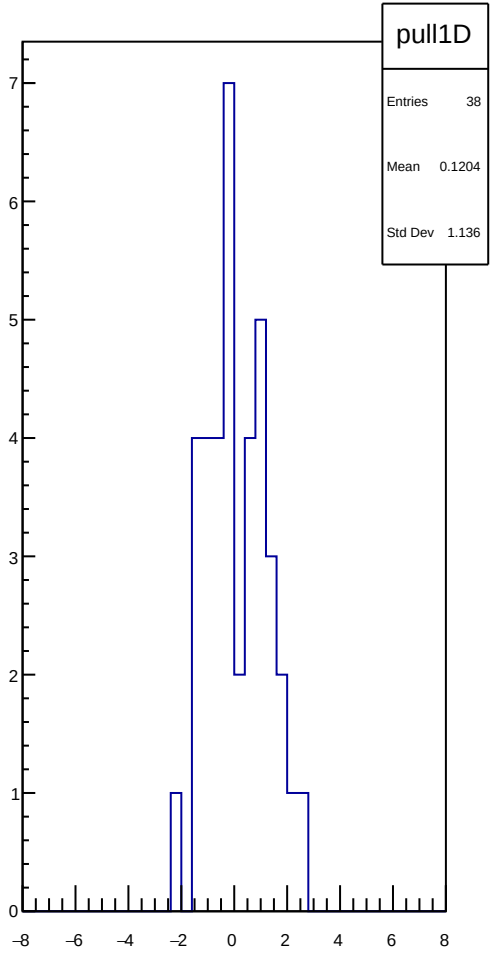

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 13.02 / 37
p0 −10.84 ± 1.084
pull
Entries 38
Mean −14.13
Std Dev 44.62
pull1D
Entries 38
Mean −0.01676
Std Dev 0.585

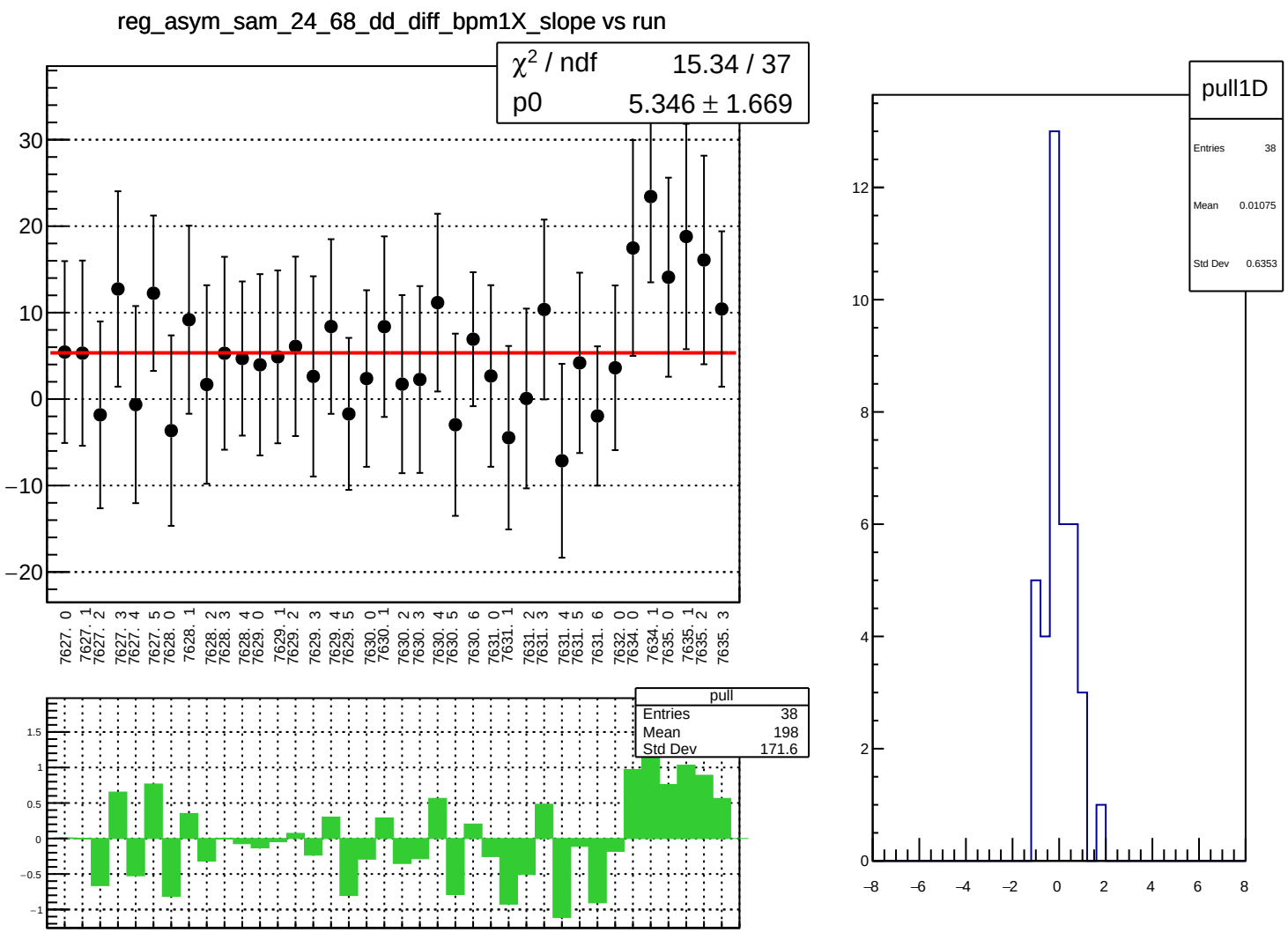

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 47.7 / 37
p0 20.01 ± 0.6935
pull
Entries 38
Mean −18.07
Std Dev 39.15

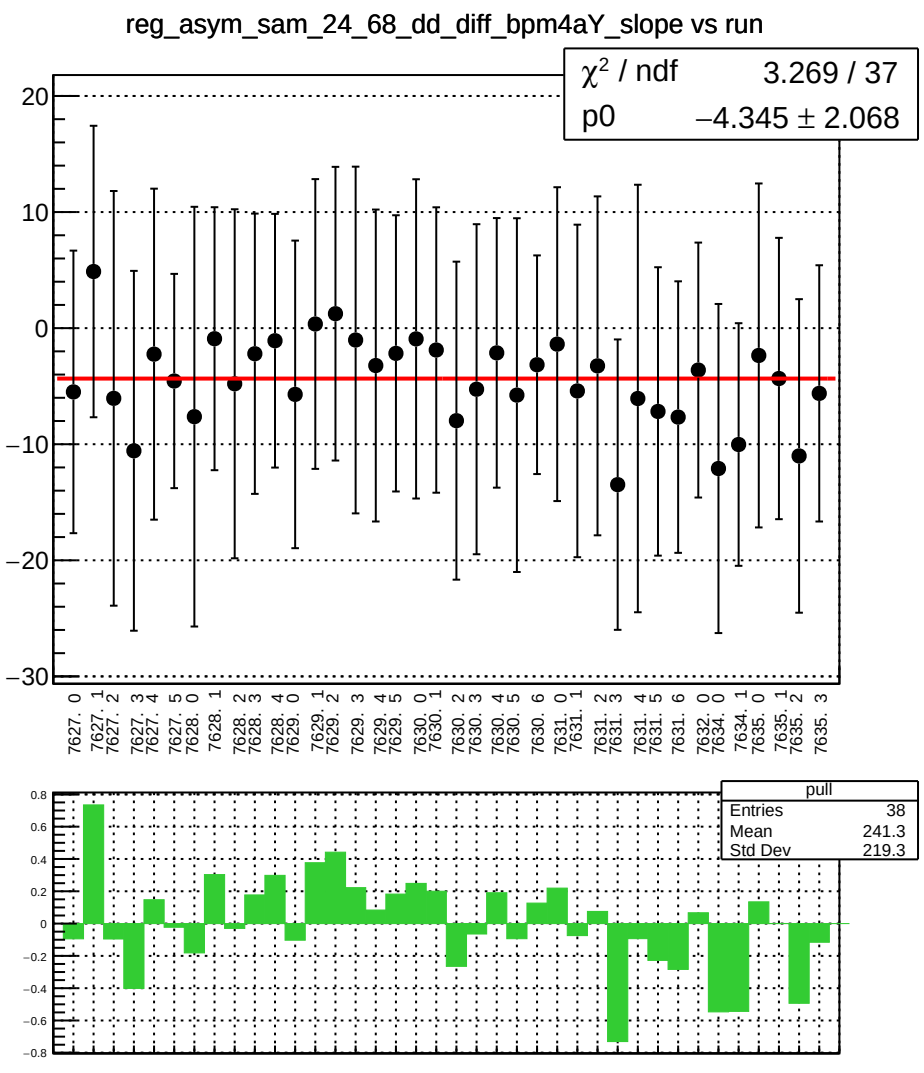

pull1D
Entries 38
Mean −0.07531
Std Dev 1.118

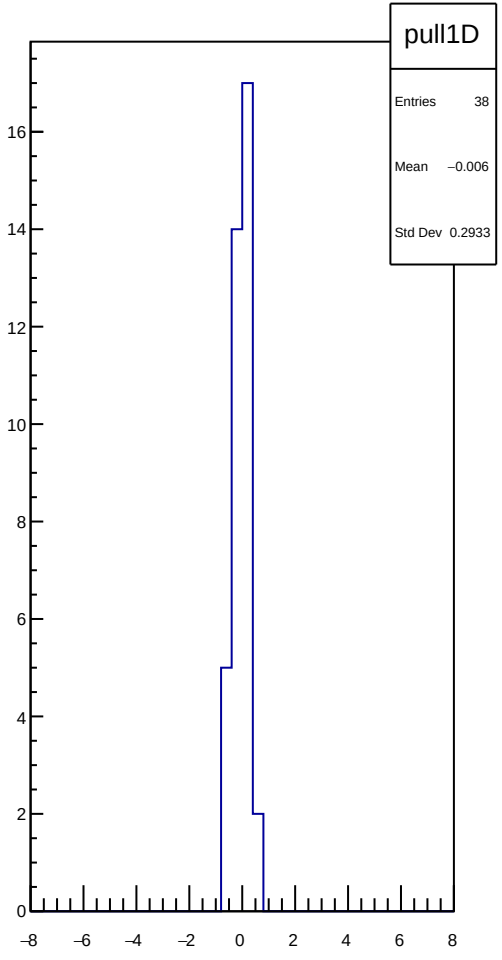

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 12.34 / 37
p0 33.61 ± 1.591
70
60
50
40
30
20
10
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 4
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −8.29
Std Dev 43.11
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 38
Mean 0.0132
Std Dev 0.5696
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

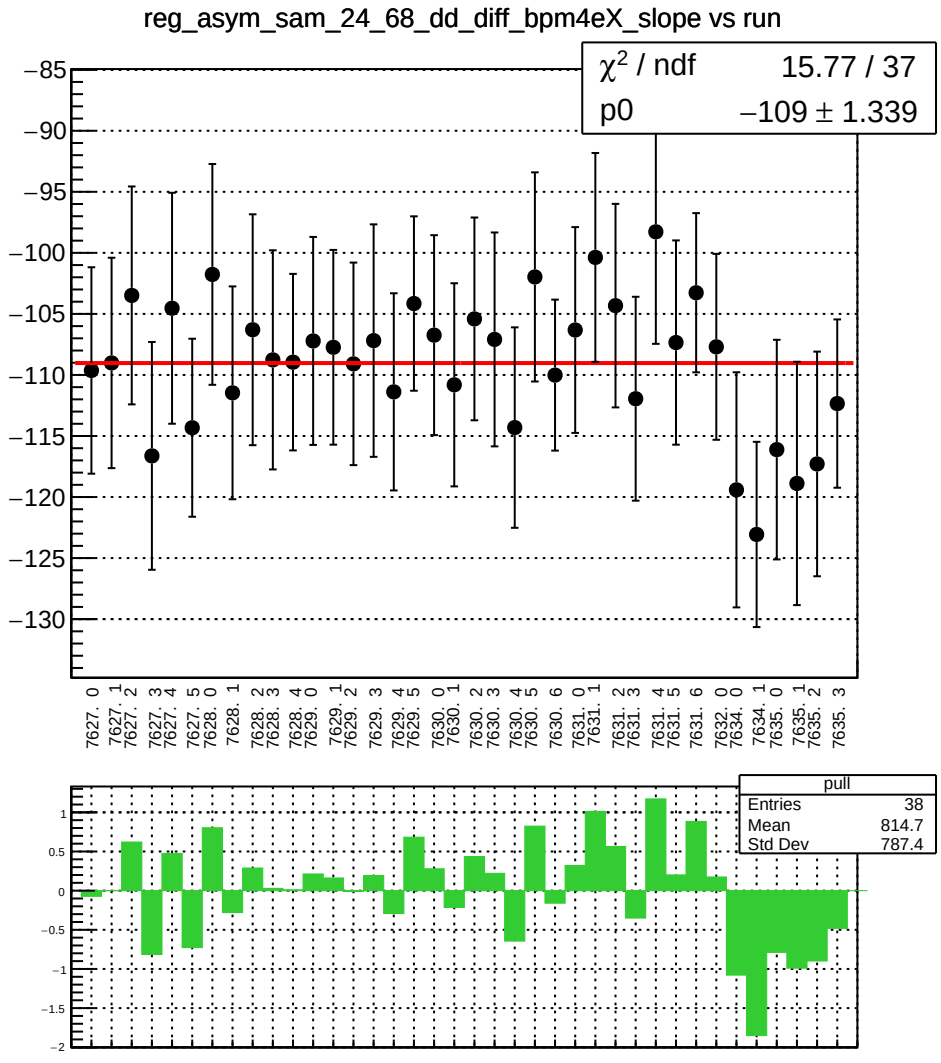

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 49.56 / 37
p0 2.438 ± 0.1109
pull
Entries 38
Mean 17.44
Std Dev 11.49

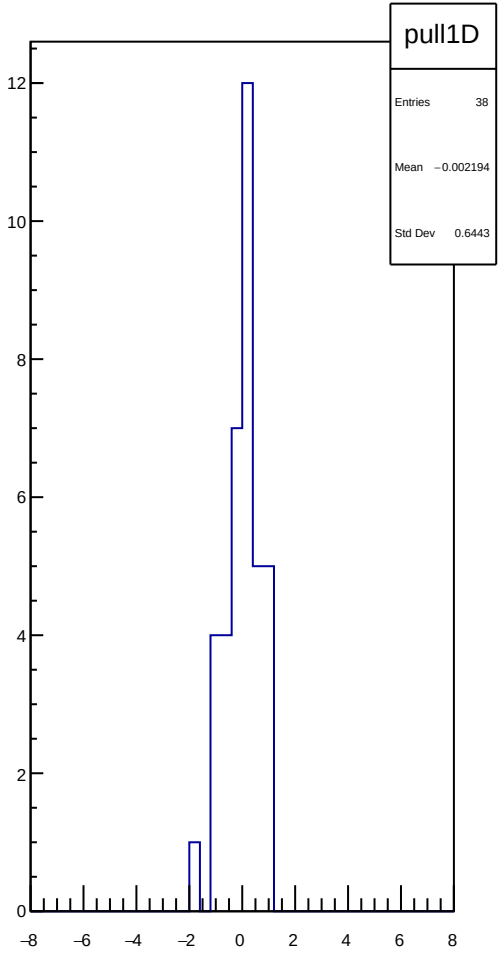

pull1D
Entries 38
Mean 0.1204
Std Dev 1.136

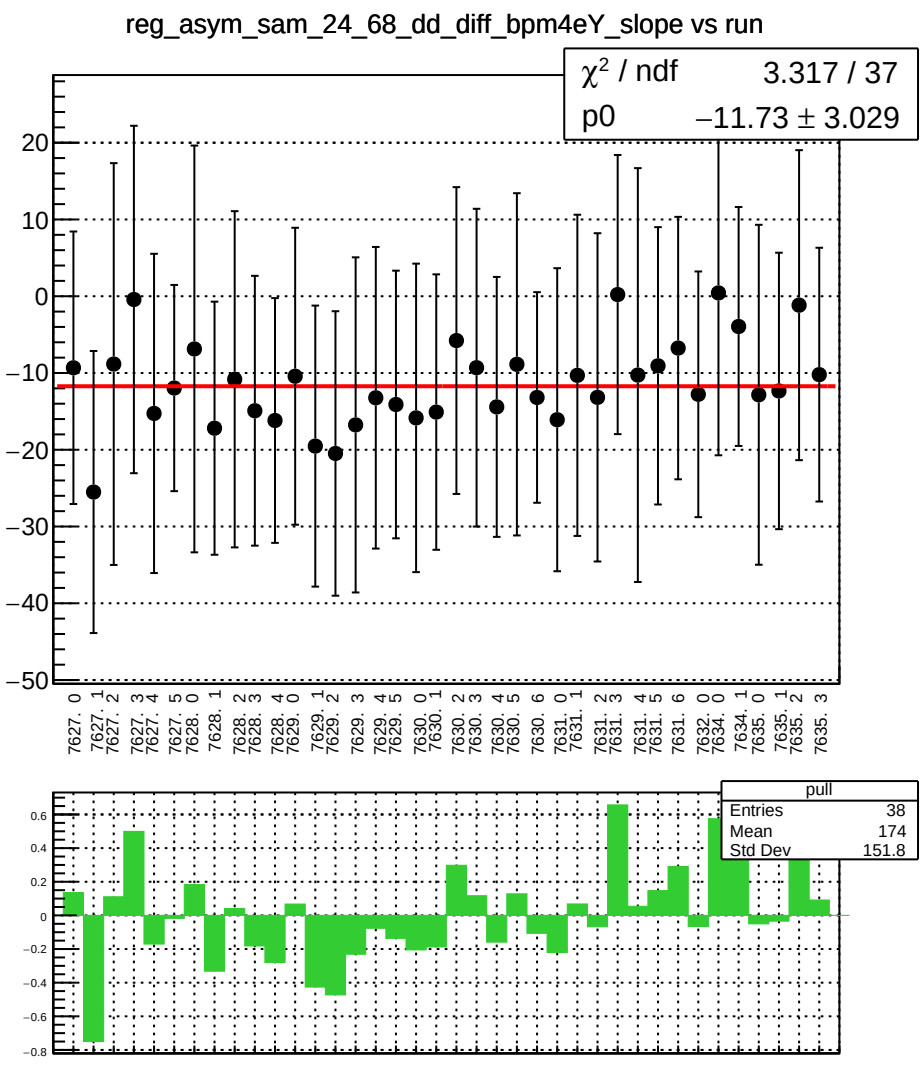

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 15.34 / 37
p0 5.346 ± 1.669
pull
Entries 38
Mean 198
Std Dev 171.6
pull1D
Entries 38
Mean 0.01075
Std Dev 0.6353

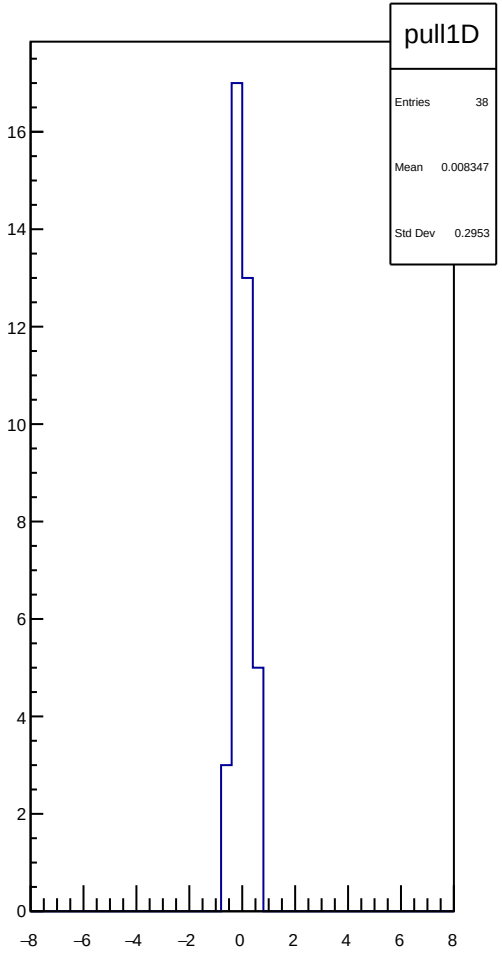

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.269 / 37
p0 −4.345 ± 2.068
pull
Entries 38
Mean 241.3
Std Dev 219.3

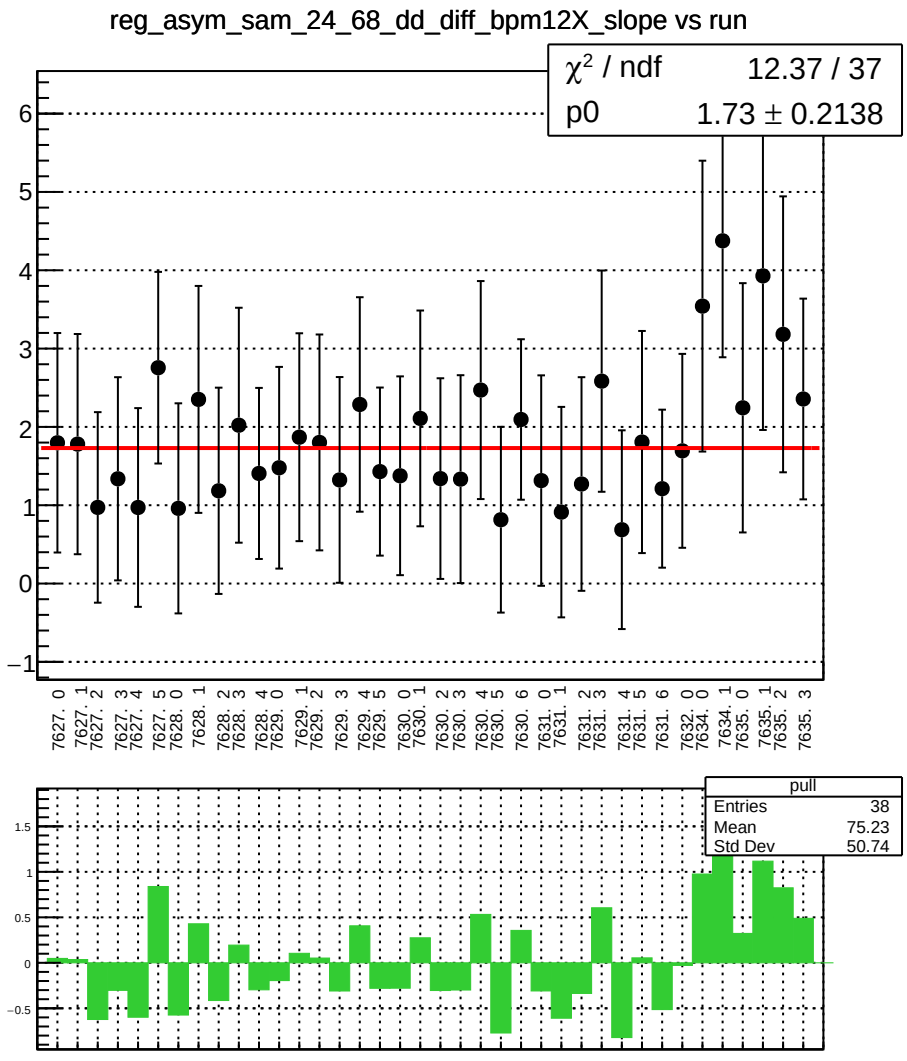

pull1D
Entries 38
Mean −0.006
Std Dev 0.2933

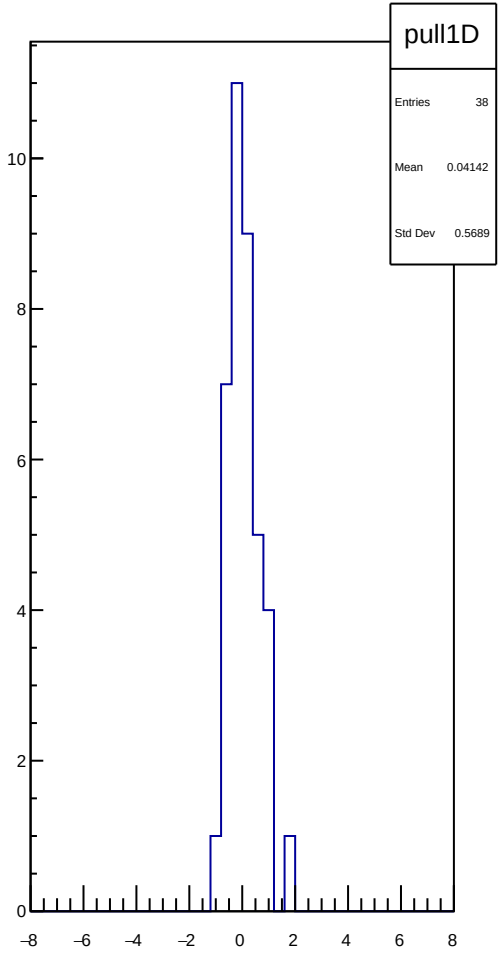

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 15.77 / 37
p0 −109 ± 1.339
pull
Entries 38
Mean 814.7
Std Dev 787.4

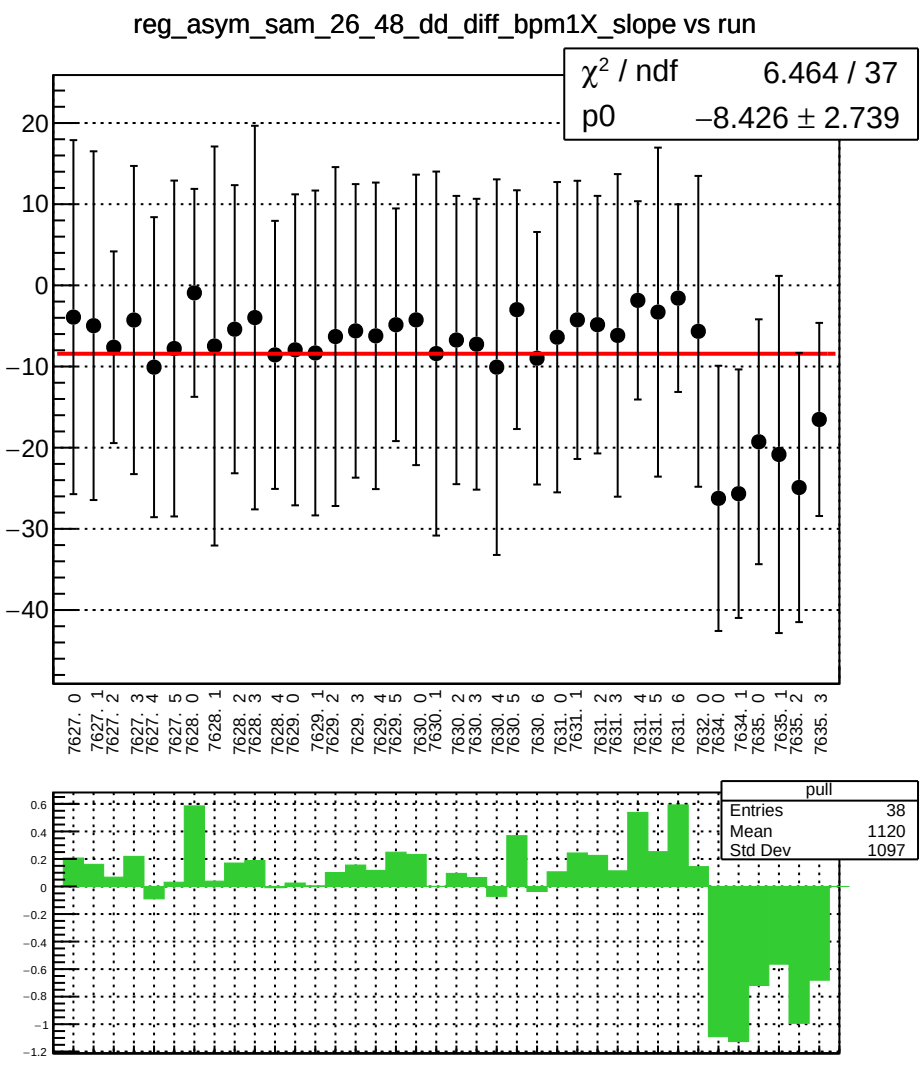

pull1D
Entries 38
Mean −0.002194
Std Dev 0.6443

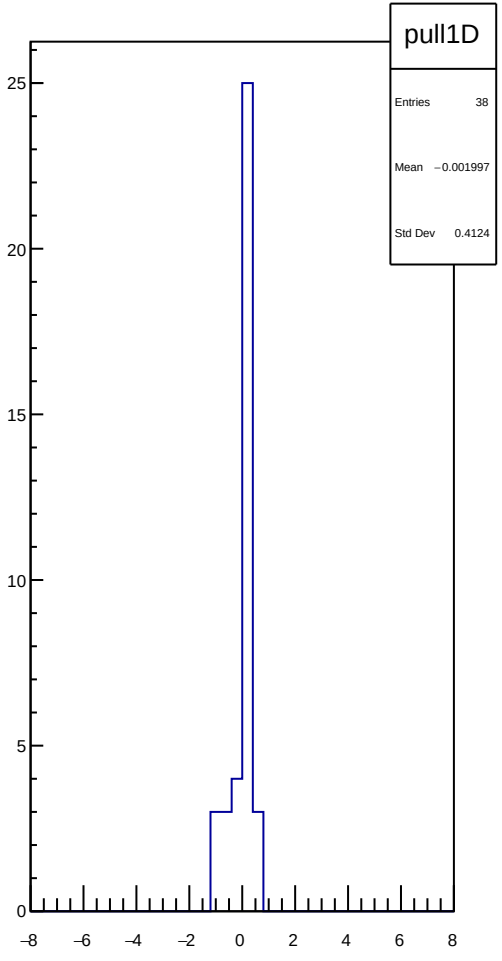

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.317 / 37
p0 −11.73 ± 3.029
pull
Entries 38
Mean 174
Std Dev 151.8

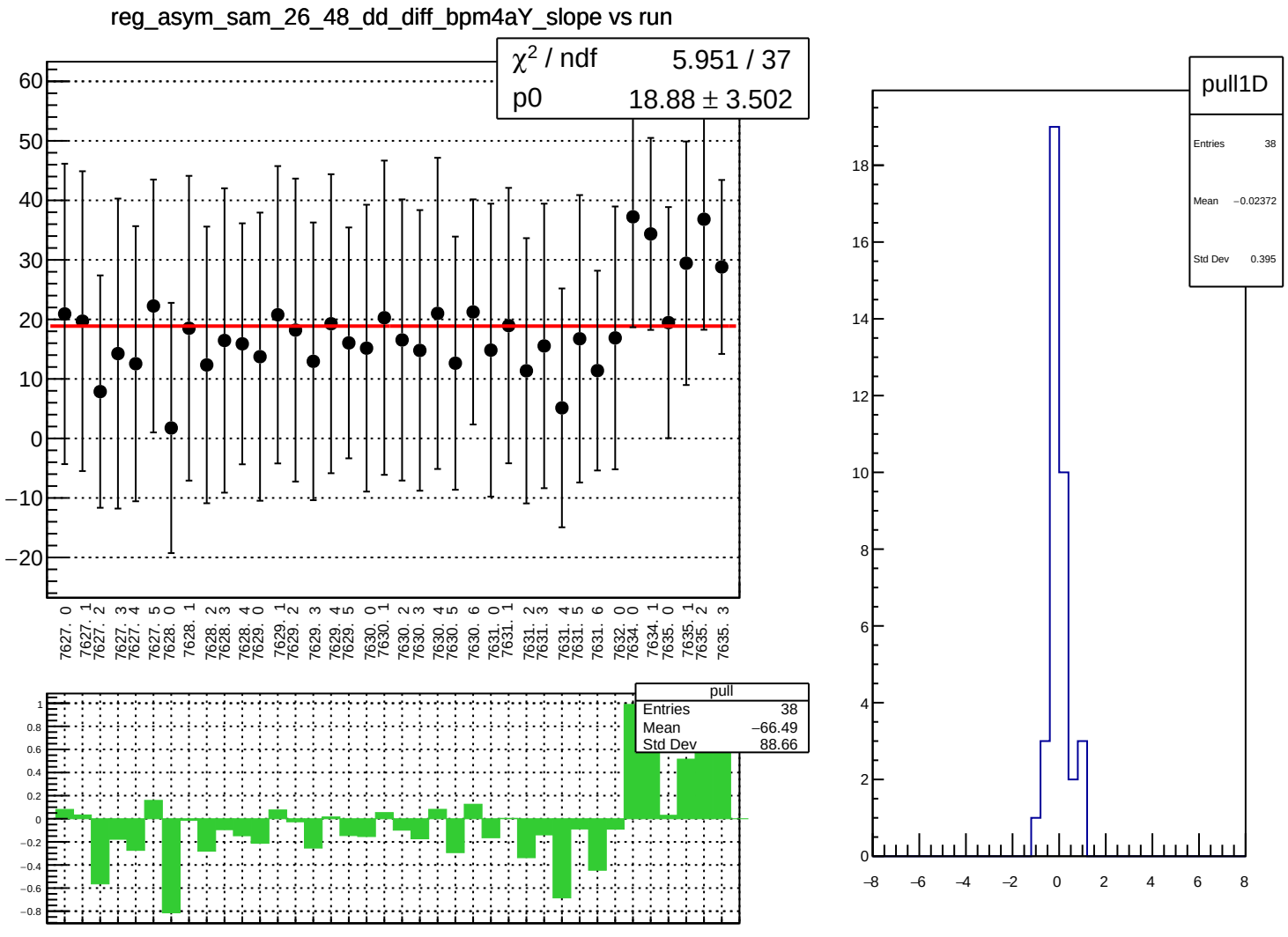

pull1D
Entries 38
Mean 0.008347
Std Dev 0.2953

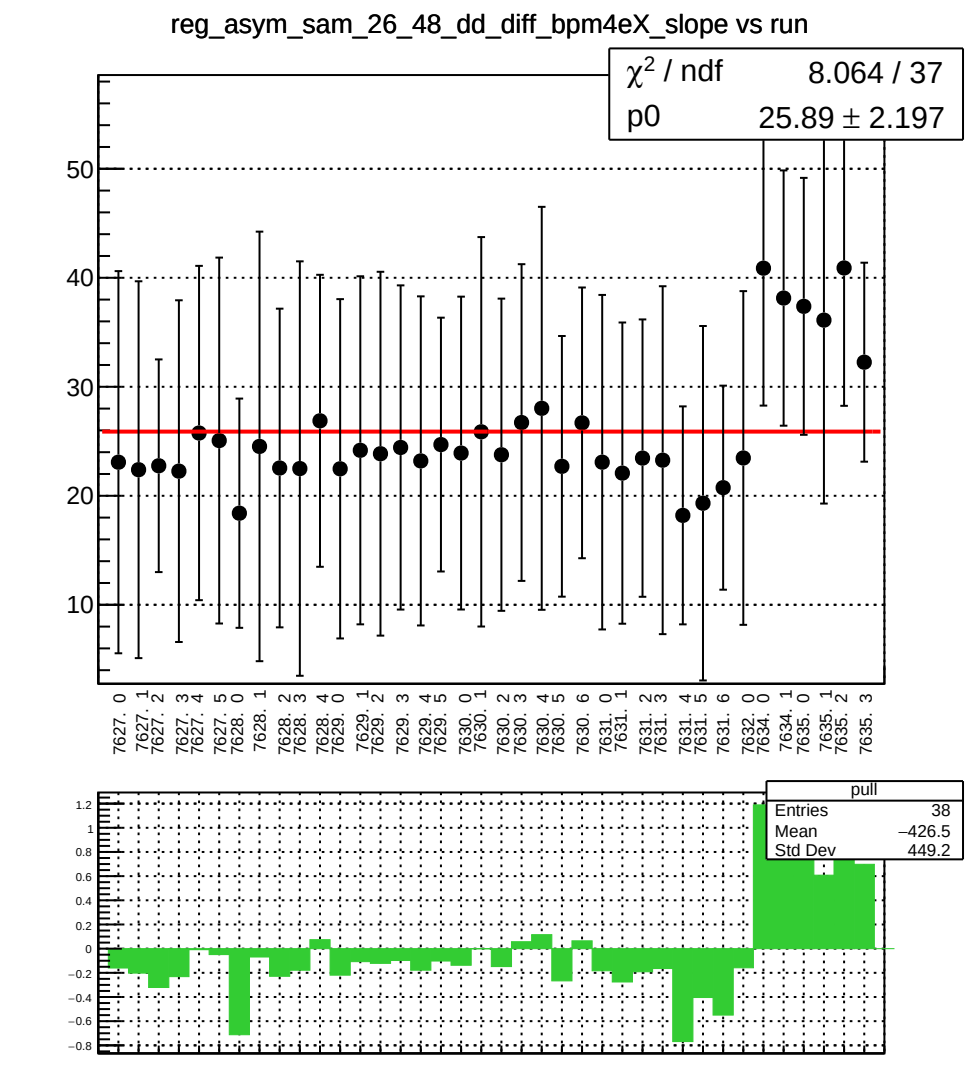

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 12.37 / 37
p0 1.73 ± 0.2138
pull
Entries 38
Mean 75.23
Std Dev 50.74

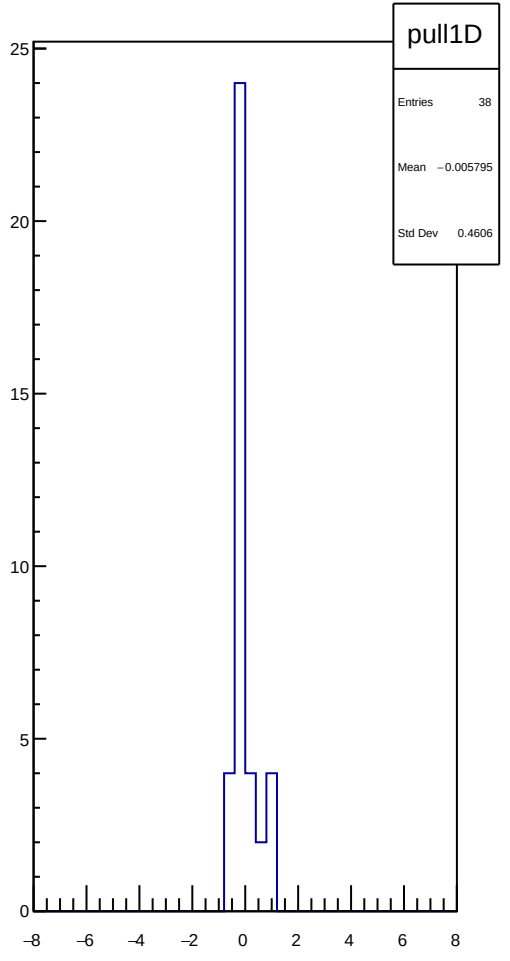

pull1D
Entries 38
Mean 0.04142
Std Dev 0.5689

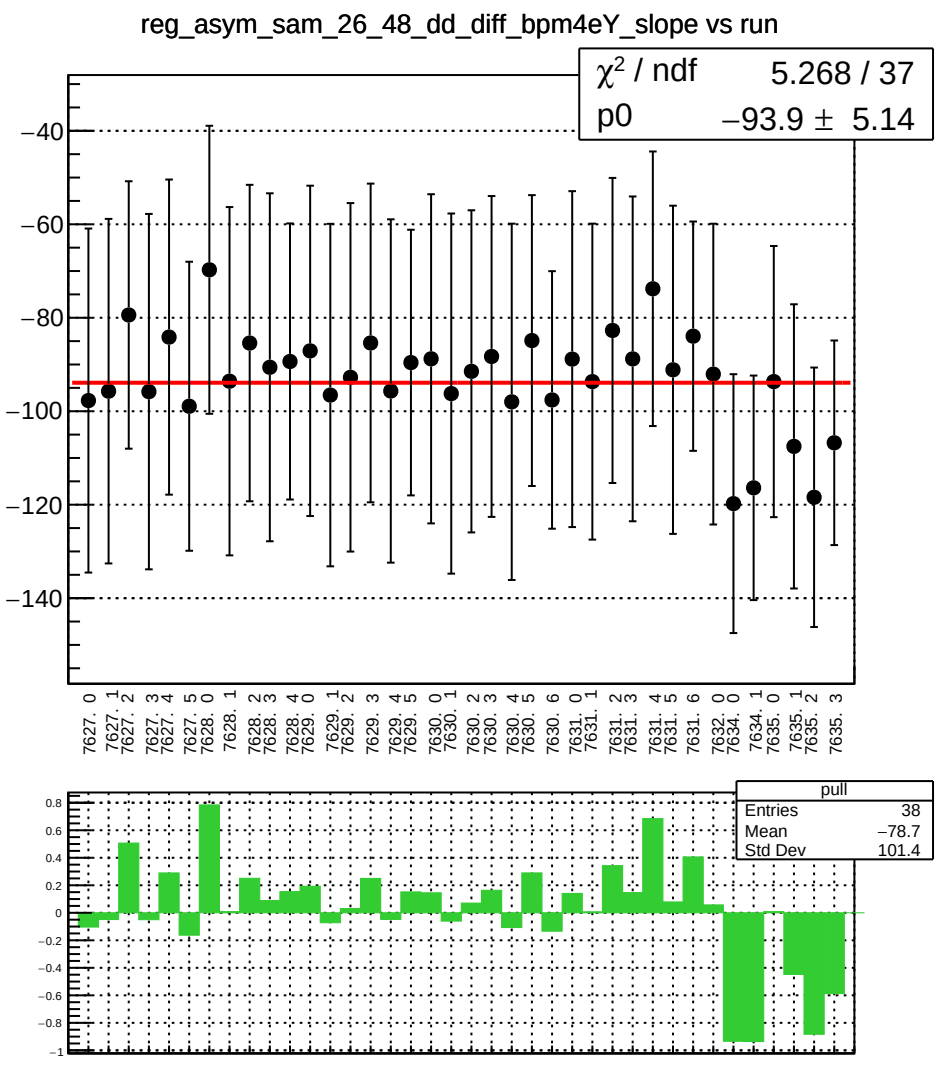

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 6.464 / 37
p0 −8.426 ± 2.739
pull
Entries 38
Mean 1120
Std Dev 1097

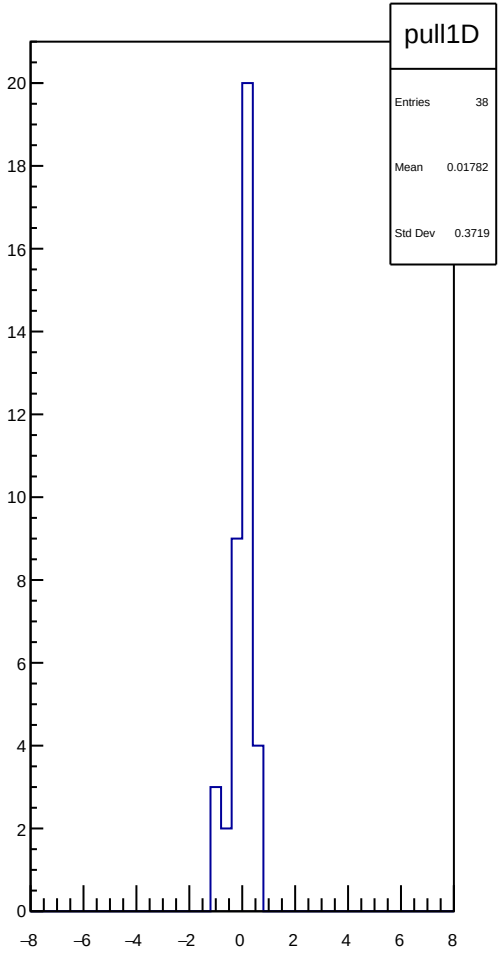

pull1D
Entries 38
Mean −0.001997
Std Dev 0.4124

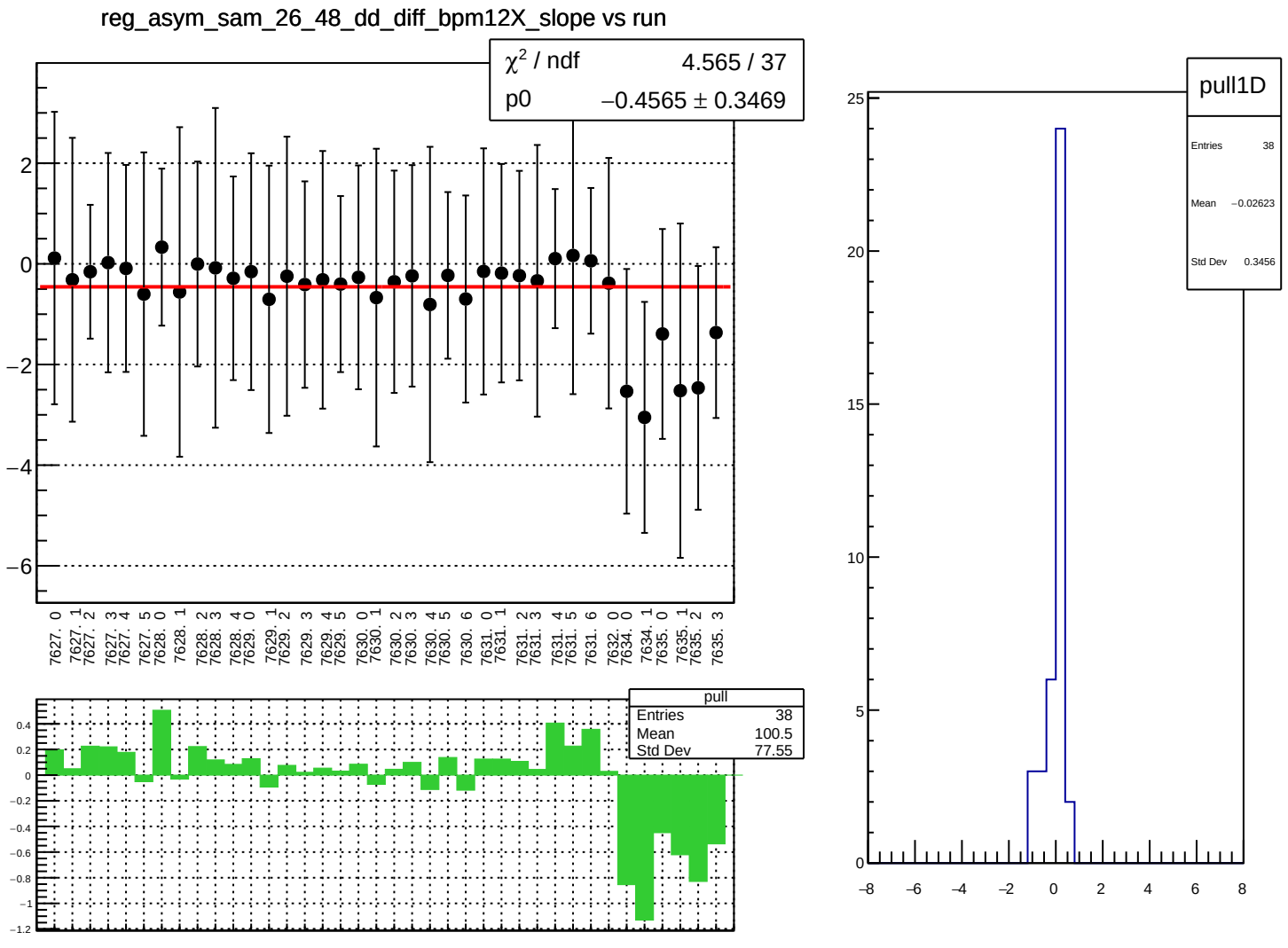

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.951 / 37
p0 18.88 ± 3.502
pull
Entries 38
Mean −66.49
Std Dev 88.66
pull1D
Entries 38
Mean −0.02372
Std Dev 0.395

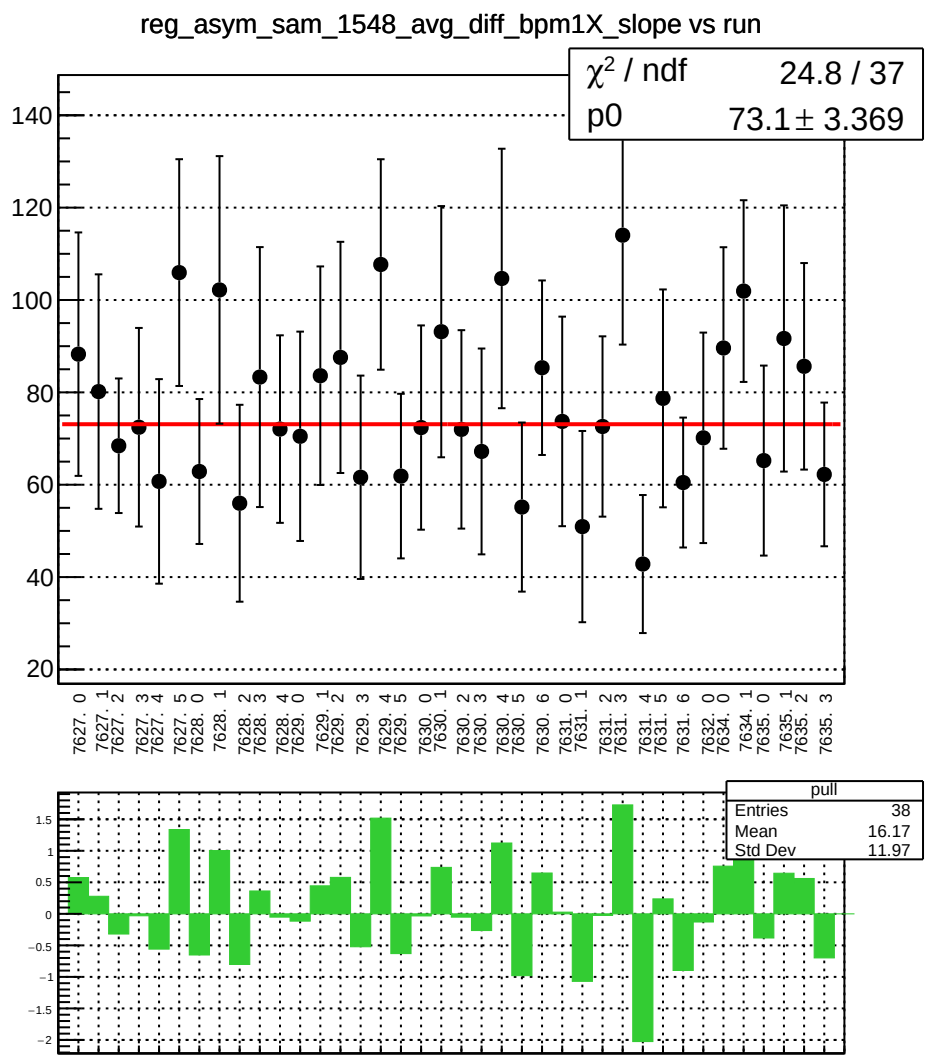

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 8.064 / 37
p0 25.89 ± 2.197
50
40
30
20
10
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −426.5
Std Dev 449.2
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

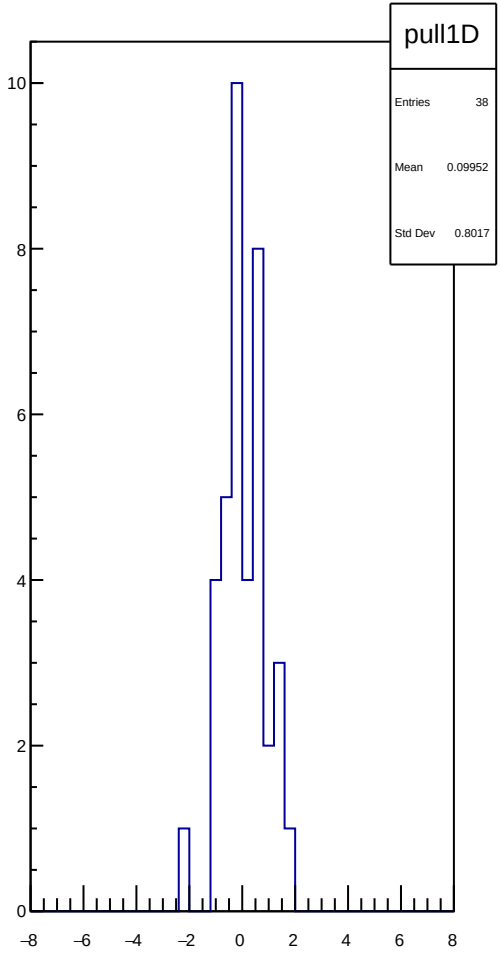

pull1D
Entries 38
Mean −0.005795
Std Dev 0.4606
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

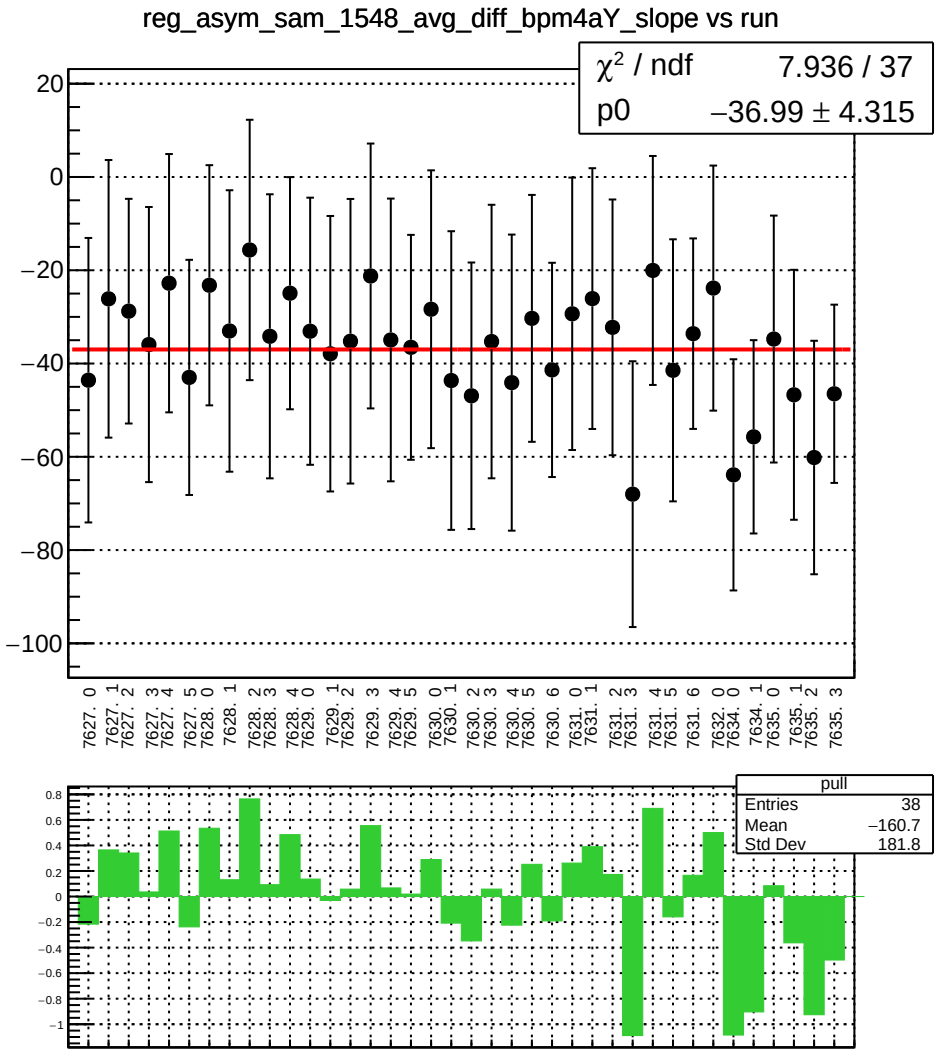

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.268 / 37
p0 −93.9 ± 5.14
−40
−60
−80
−100
−120
−140
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −78.7
Std Dev 101.4
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

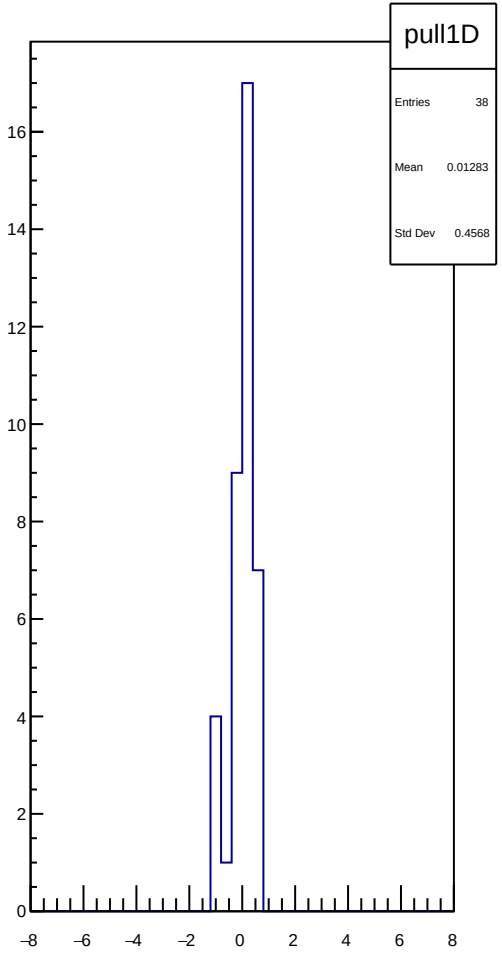

pull1D
Entries 38
Mean 0.01782
Std Dev 0.3719
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

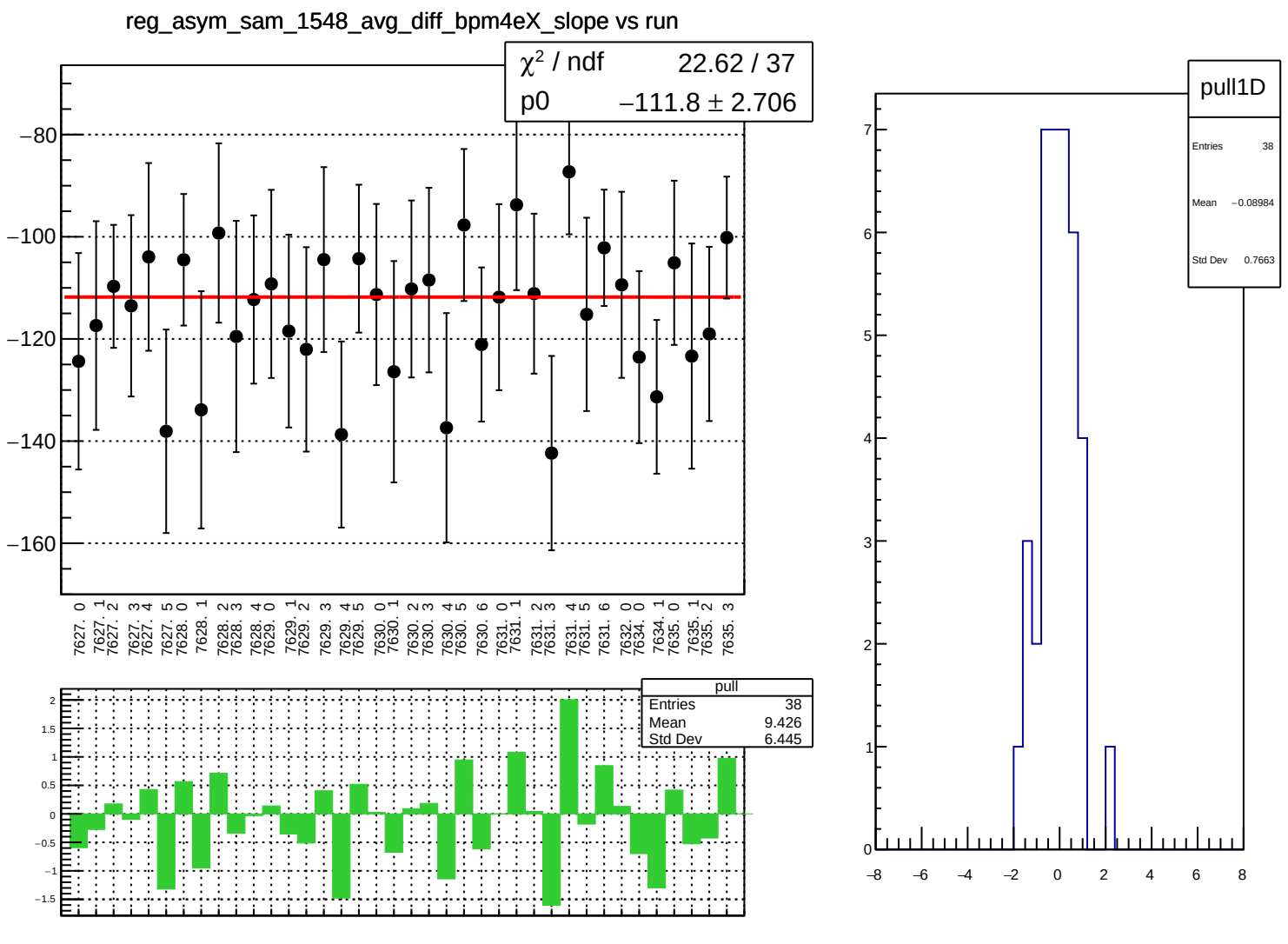

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 4.565 / 37
p0 −0.4565 ± 0.3469
pull
Entries 38
Mean 100.5
Std Dev 77.55
pull1D
Entries 38
Mean −0.02623
Std Dev 0.3456

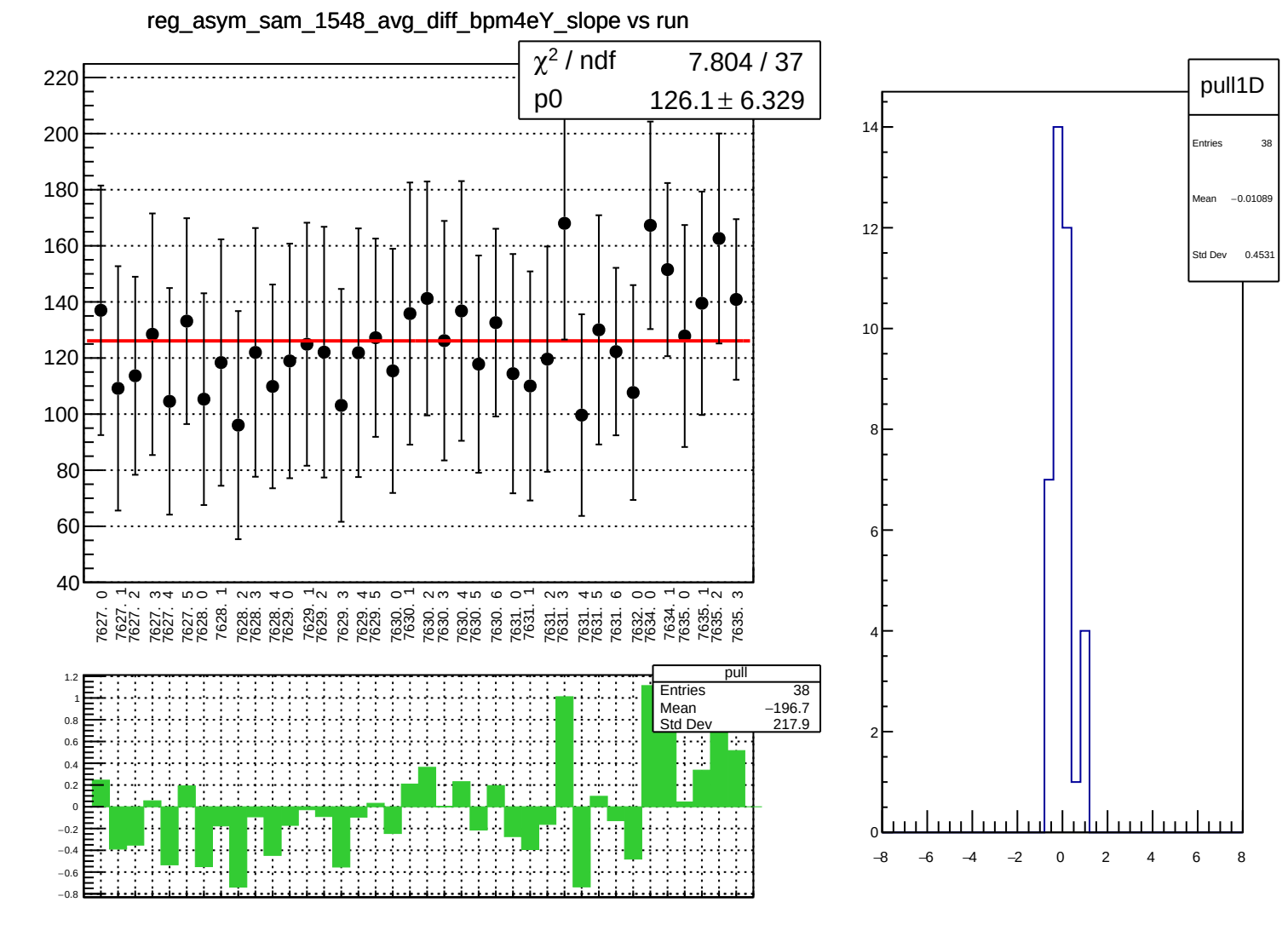

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 24.8 / 37
p0 73.1 ± 3.369
pull
Entries 38
Mean 16.17
Std Dev 11.97

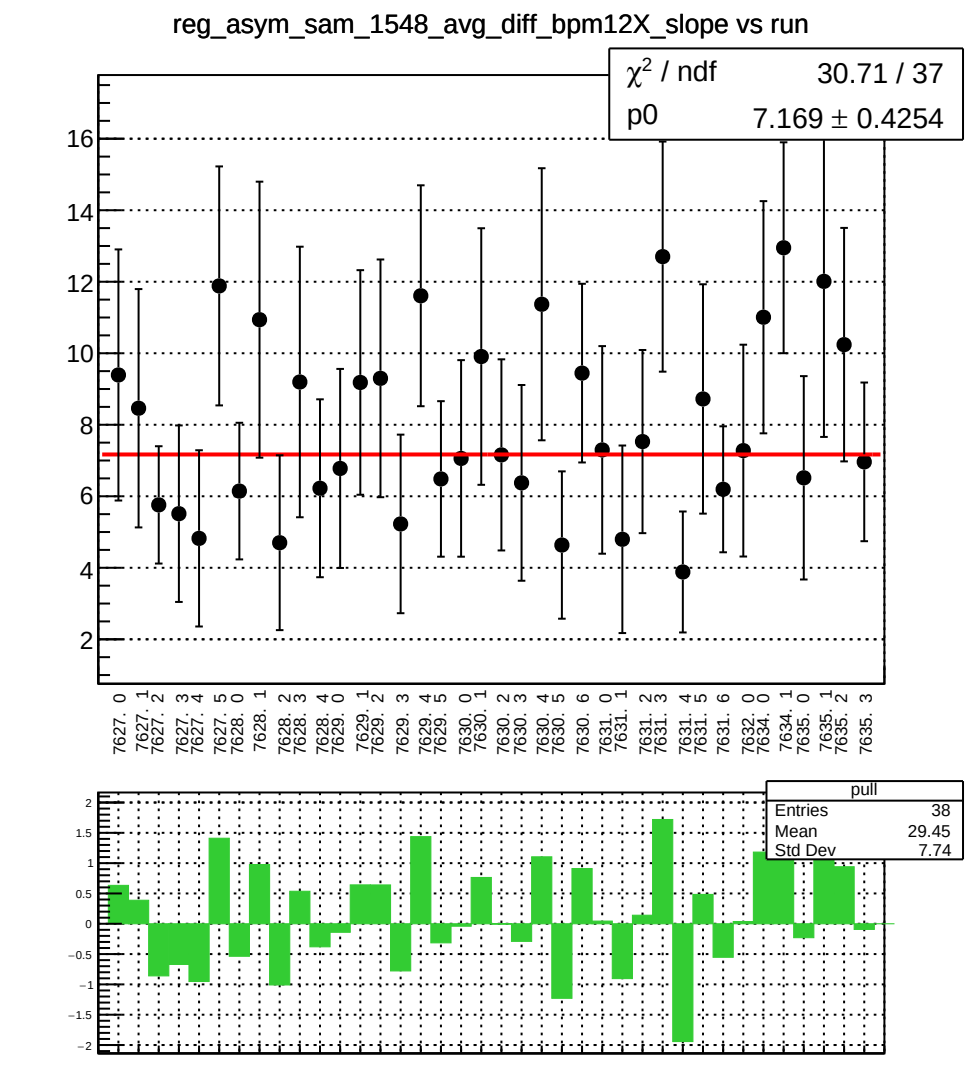

pull1D
Entries 38
Mean 0.09952
Std Dev 0.8017

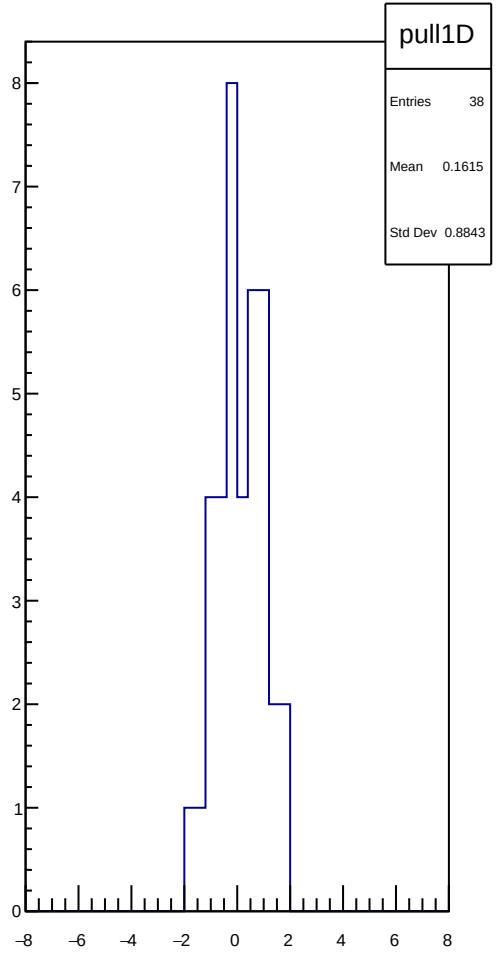

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.936 / 37
p0 −36.99 ± 4.315
pull
Entries 38
Mean −160.7
Std Dev 181.8

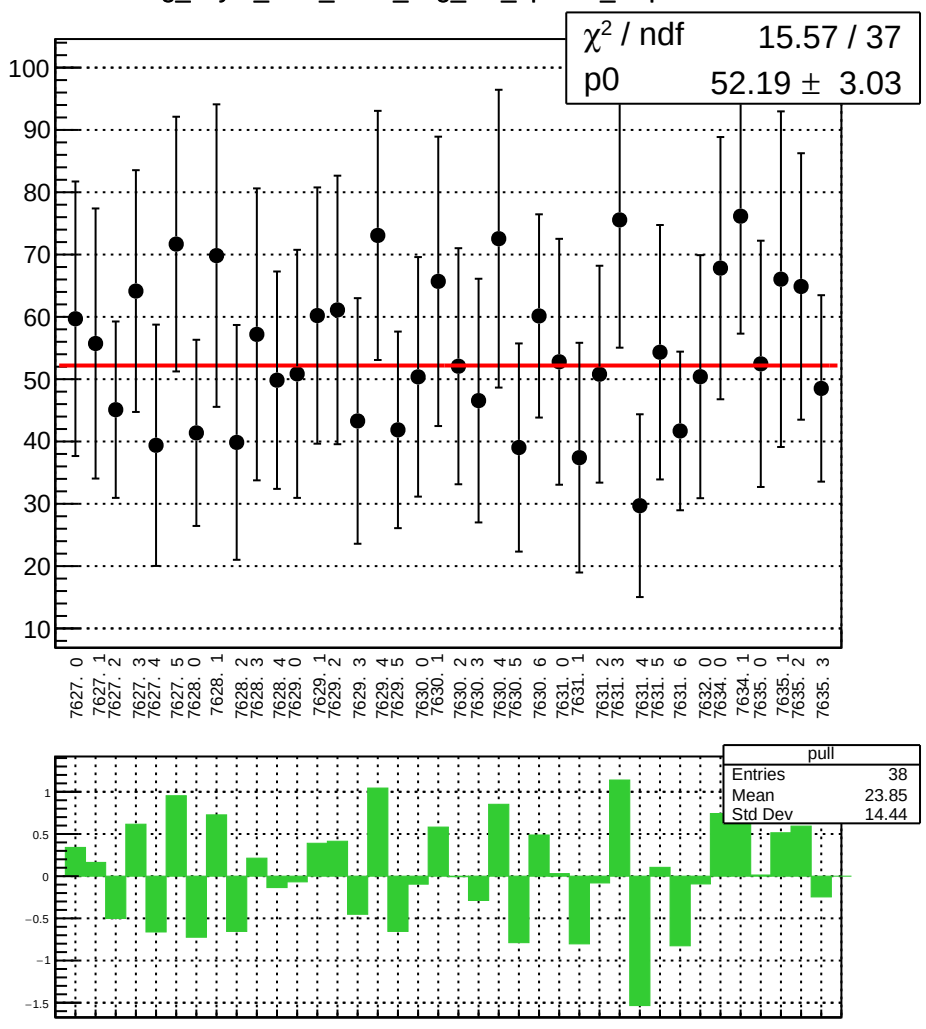

pull1D
Entries 38
Mean 0.01283
Std Dev 0.4568

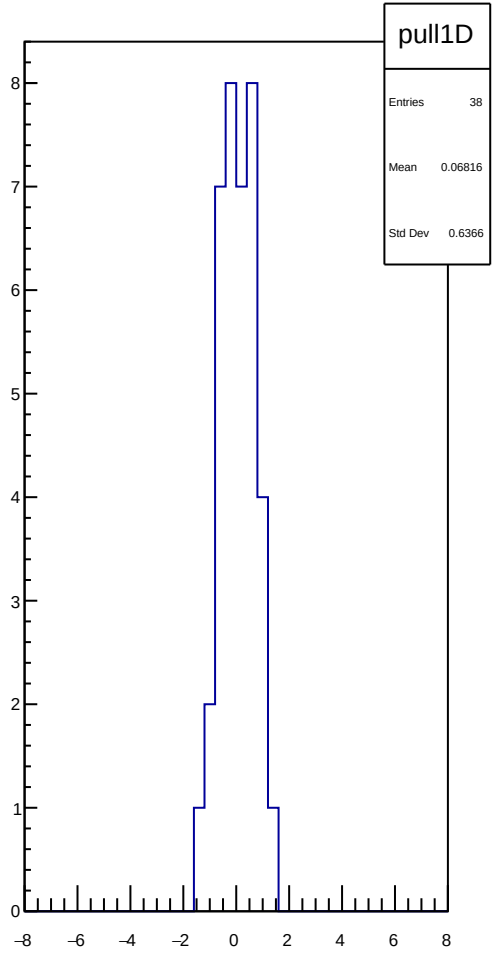

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 22.62 / 37
p0 −111.8 ± 2.706
−80
−100
−120
−140
−160
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 9.426
Std Dev 6.445
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 38
Mean −0.08984
Std Dev 0.7663
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

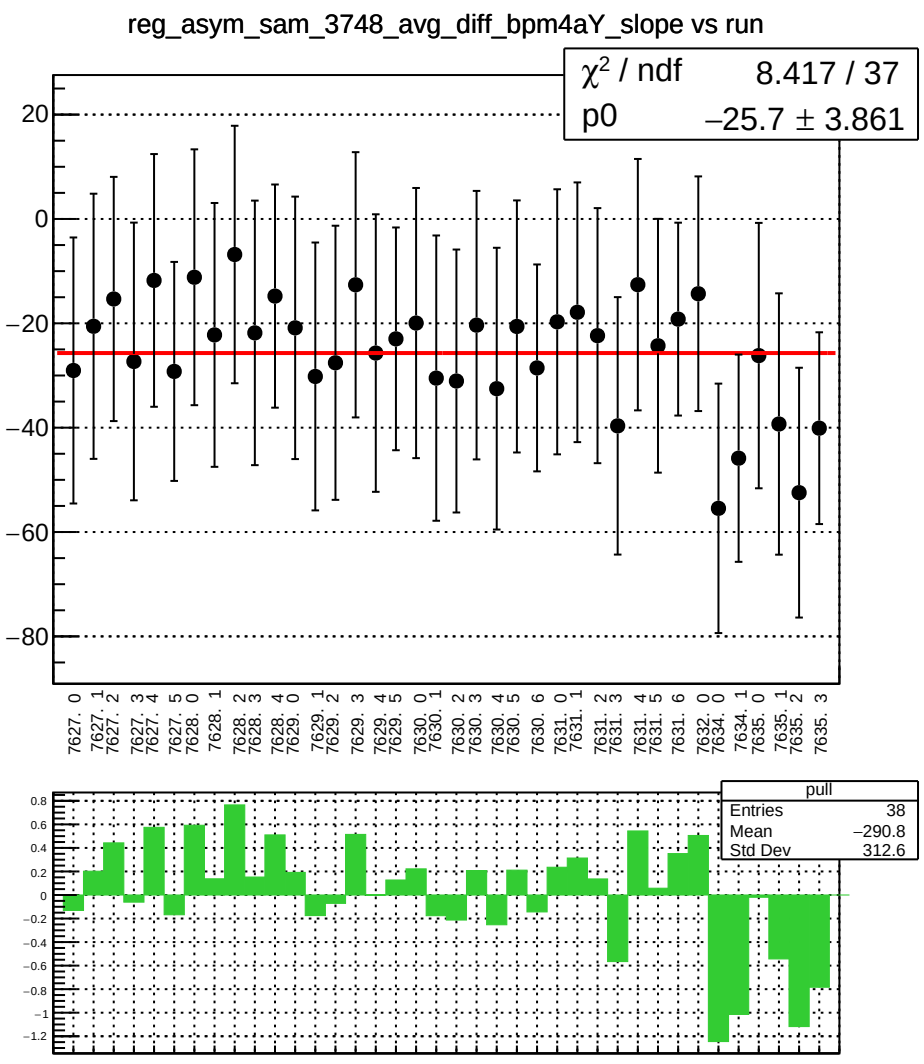

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.804 / 37
p0 126.1 ± 6.329
pull
Entries 38
Mean −196.7
Std Dev 217.9
pull1D
Entries 38
Mean −0.01089
Std Dev 0.4531

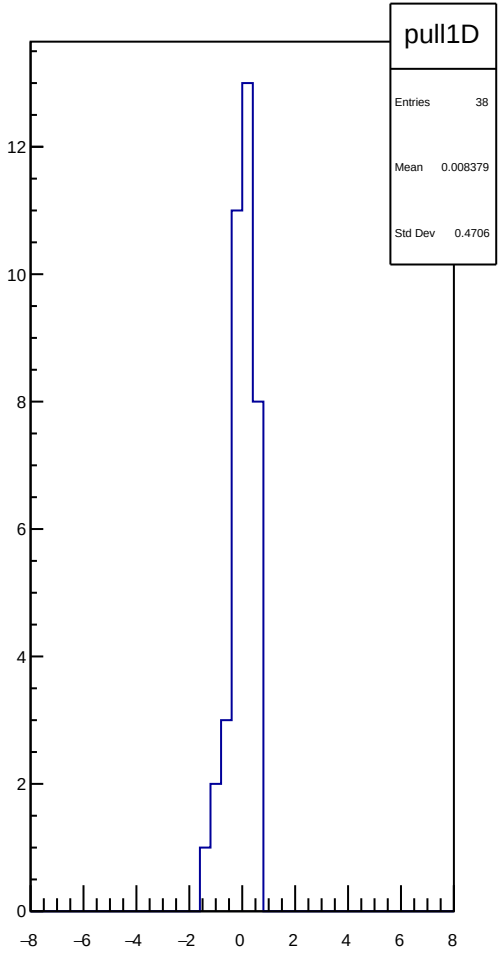

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 30.71 / 37
p0 7.169 ± 0.4254
pull
Entries 38
Mean 29.45
Std Dev 7.74

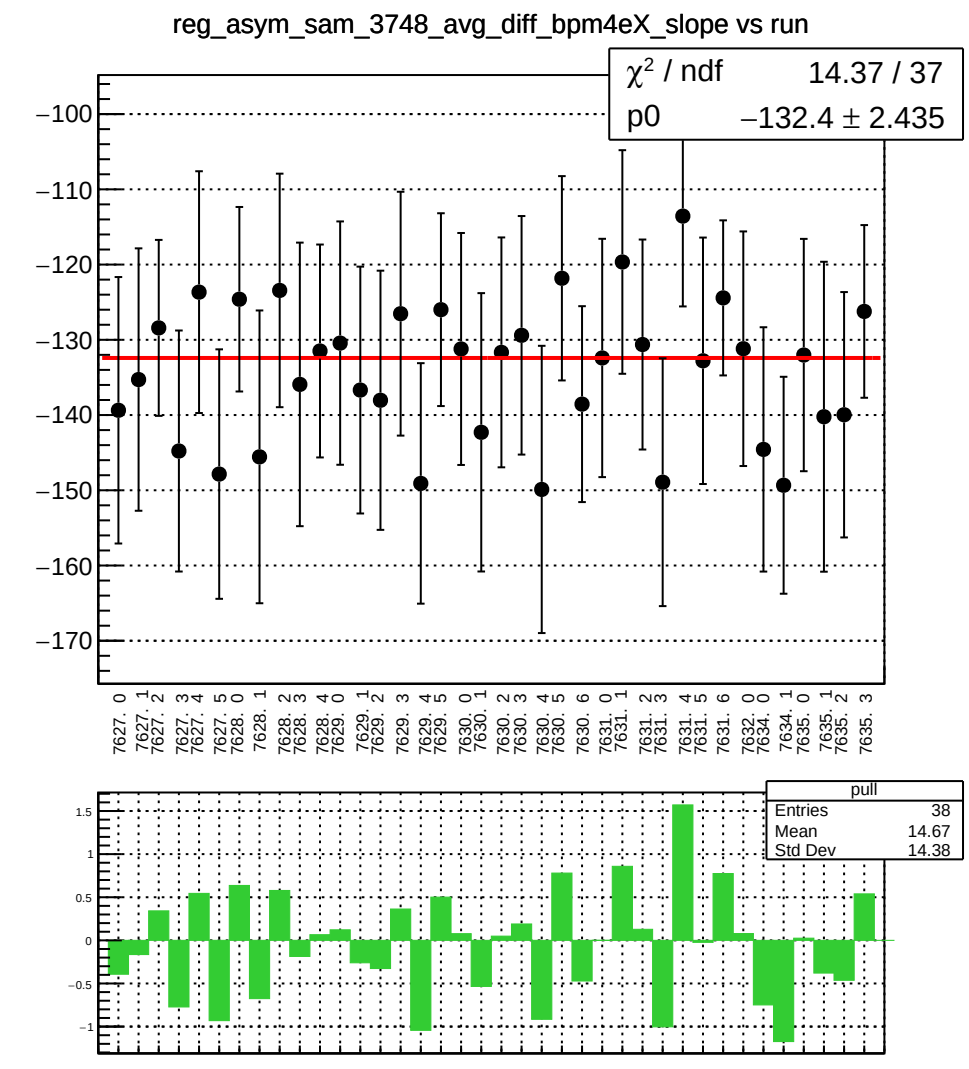

pull1D
Entries 38
Mean 0.1615
Std Dev 0.8843

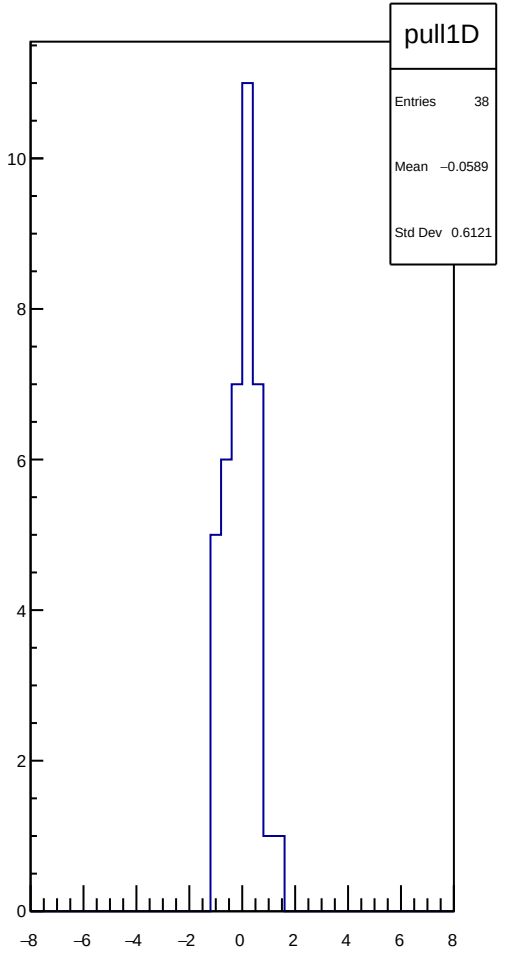

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 15.57 / 37
p0 52.19 ± 3.03
pull
Entries 38
Mean 23.85
Std Dev 14.44

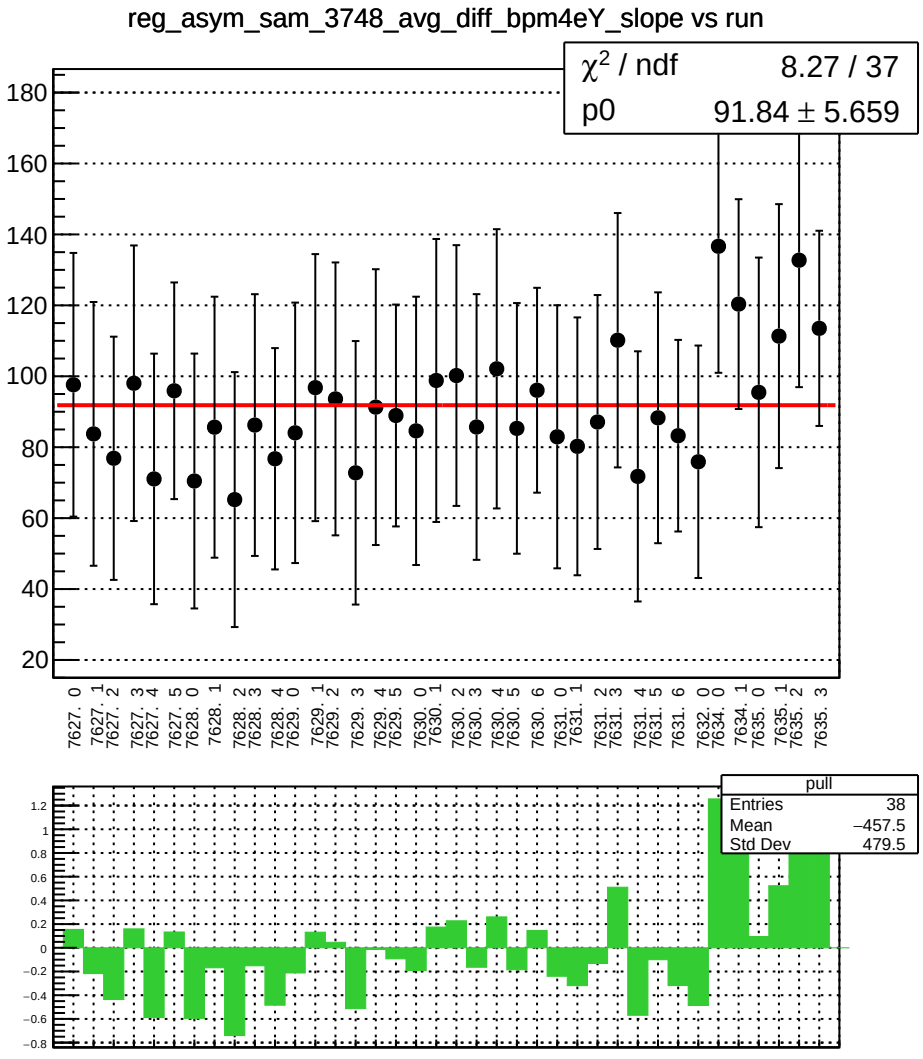

pull1D
Entries 38
Mean 0.06816
Std Dev 0.6366

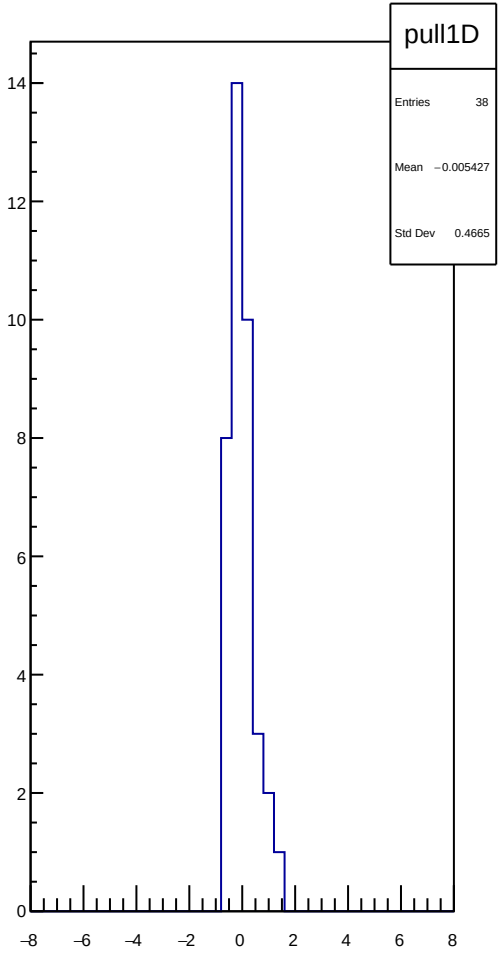

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.417 / 37
p0 –25.7 ± 3.861
20
0
–20
–40
–60
–80
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean –290.8
Std Dev 312.6
0.8
0.6
0.4
0.2
0
–0.2
–0.4
–0.6
–0.8
–1
–1.2

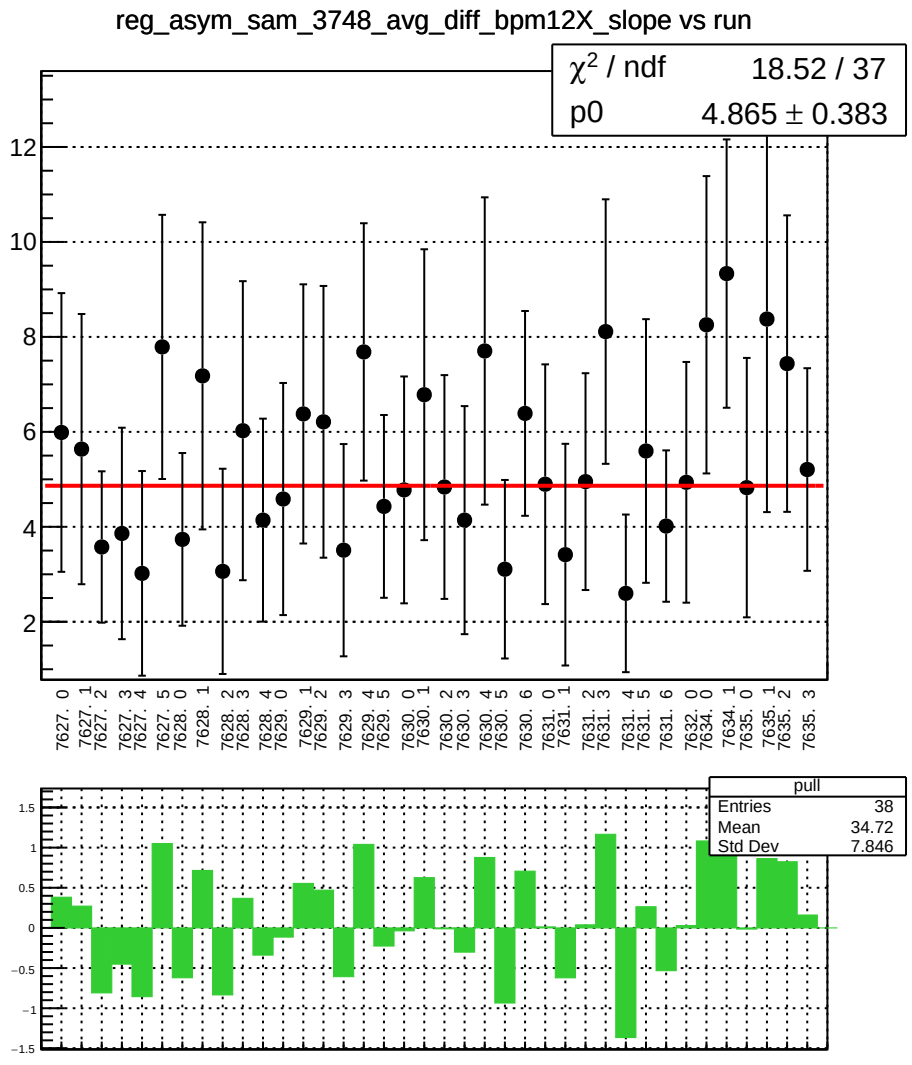

pull1D
Entries 38
Mean 0.008379
Std Dev 0.4706
12
10
8
6
4
2
0
–8
–6
–4
–2
0
2
4
6
8

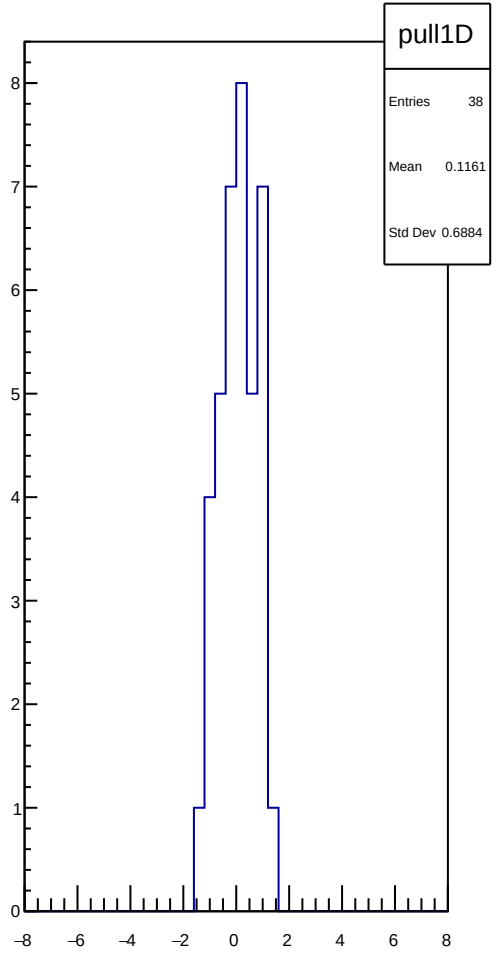

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 14.37 / 37
p0 −132.4 ± 2.435
−100
−110
−120
−130
−140
−150
−160
−170
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 14.67
Std Dev 14.38
1.5
1
0.5
0
−0.5
−1

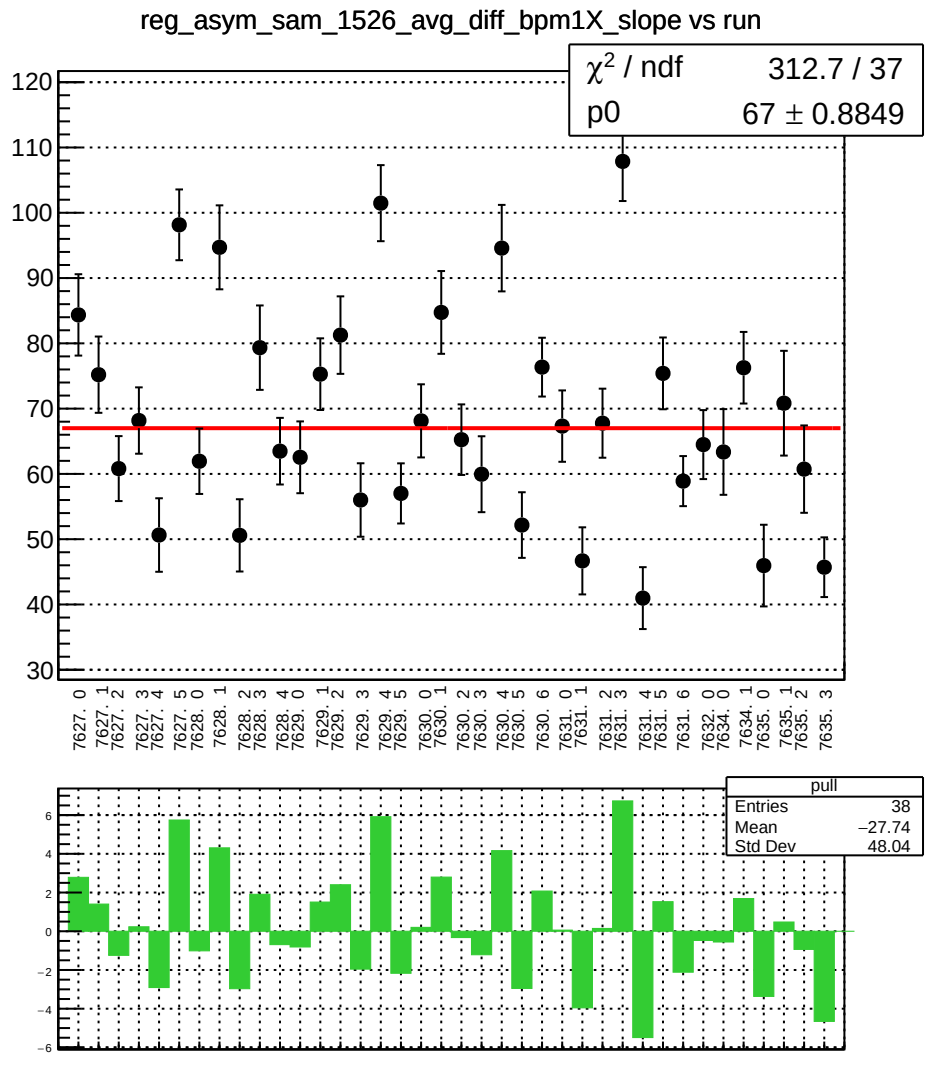

pull1D
Entries 38
Mean −0.0589
Std Dev 0.6121
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

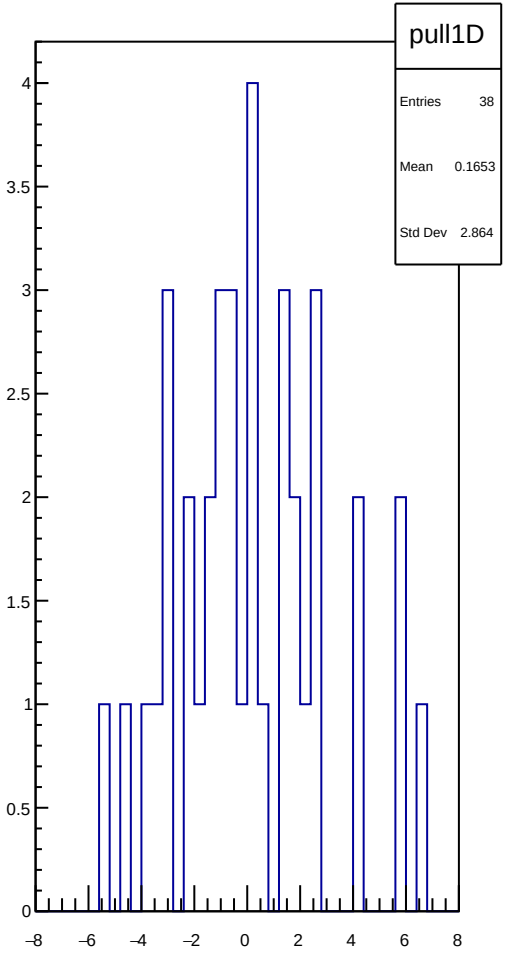

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.27 / 37
p0 91.84 ± 5.659
pull
Entries 38
Mean −457.5
Std Dev 479.5

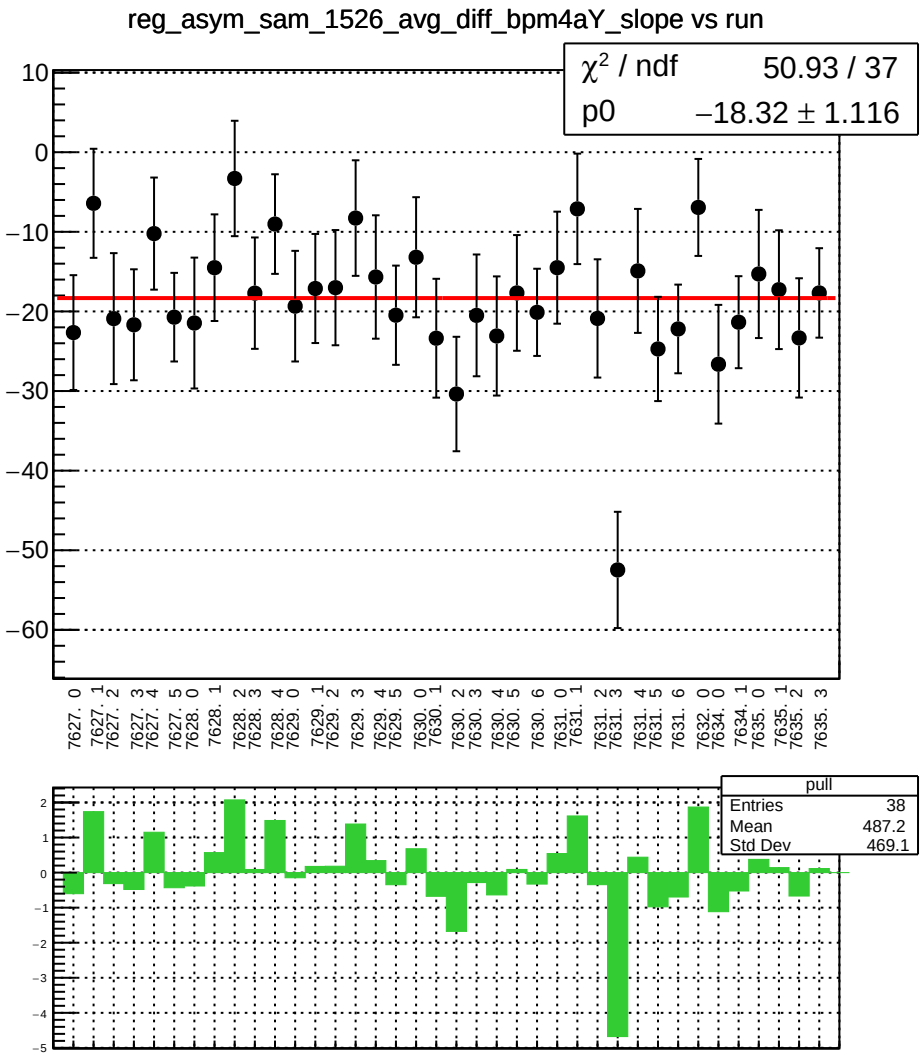

pull1D
Entries 38
Mean −0.005427
Std Dev 0.4665

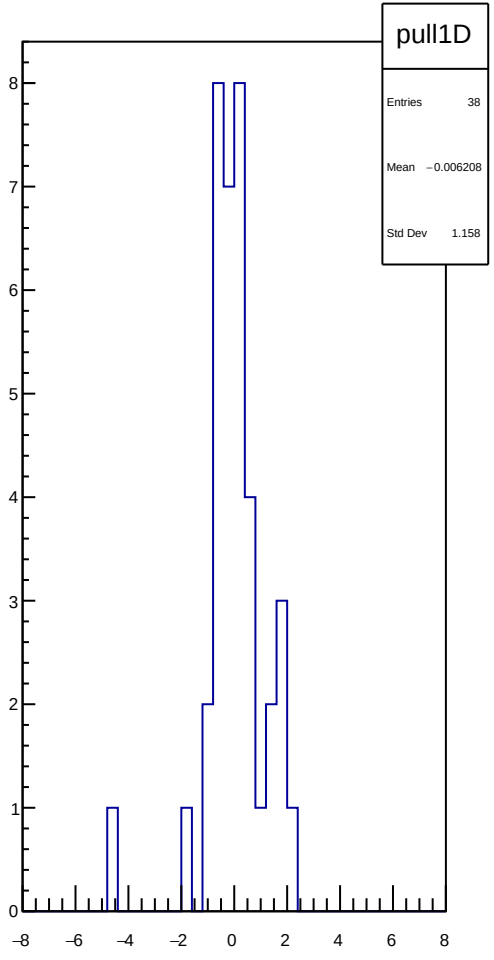

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 18.52 / 37
p0 4.865 ± 0.383
pull
Entries 38
Mean 34.72
Std Dev 7.846

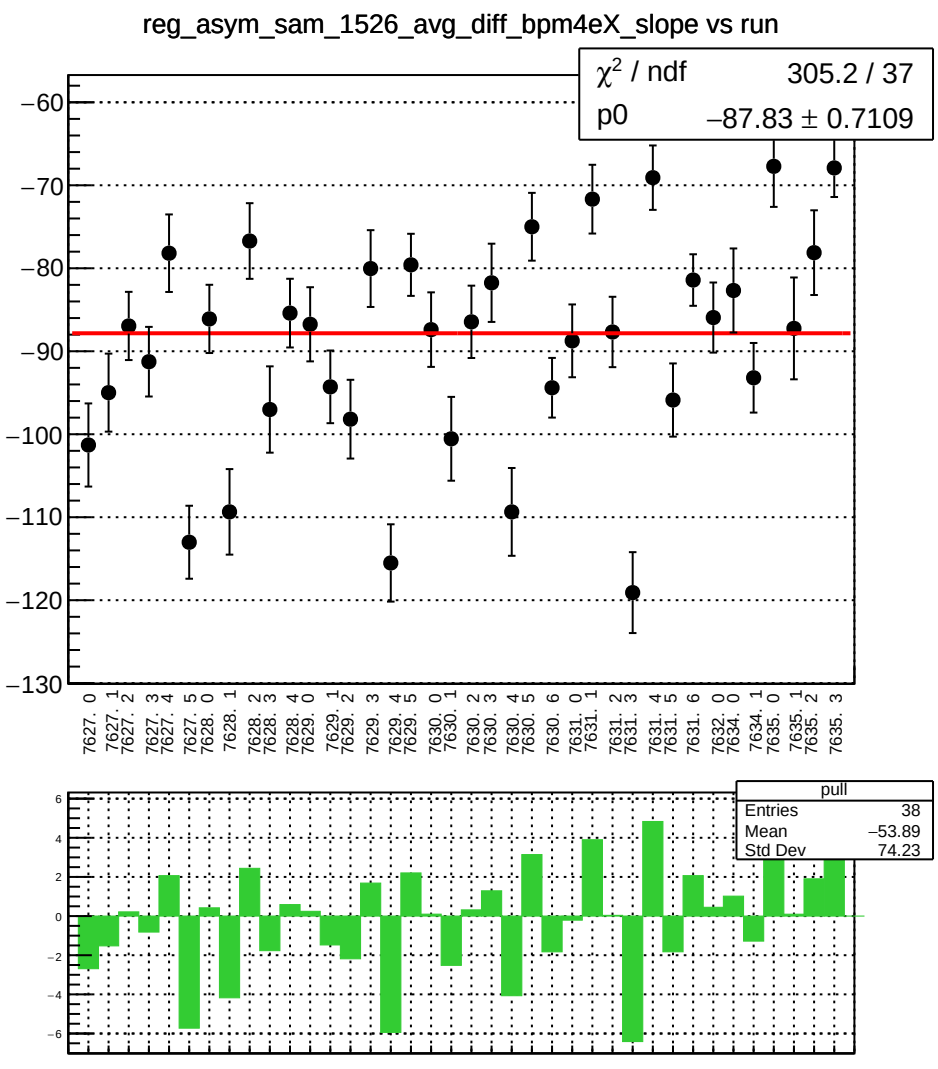

pull1D
Entries 38
Mean 0.1161
Std Dev 0.6884

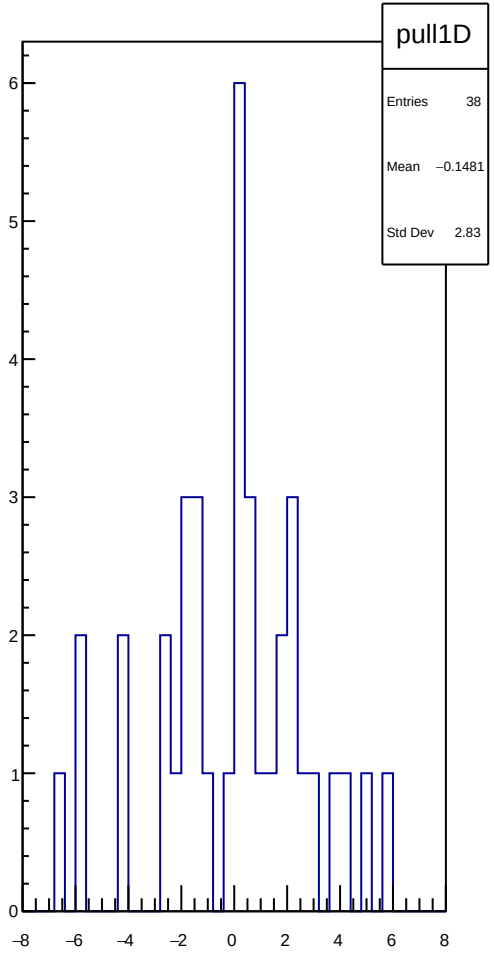

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 312.7 / 37
p0 67 ± 0.8849
pull
Entries 38
Mean −27.74
Std Dev 48.04

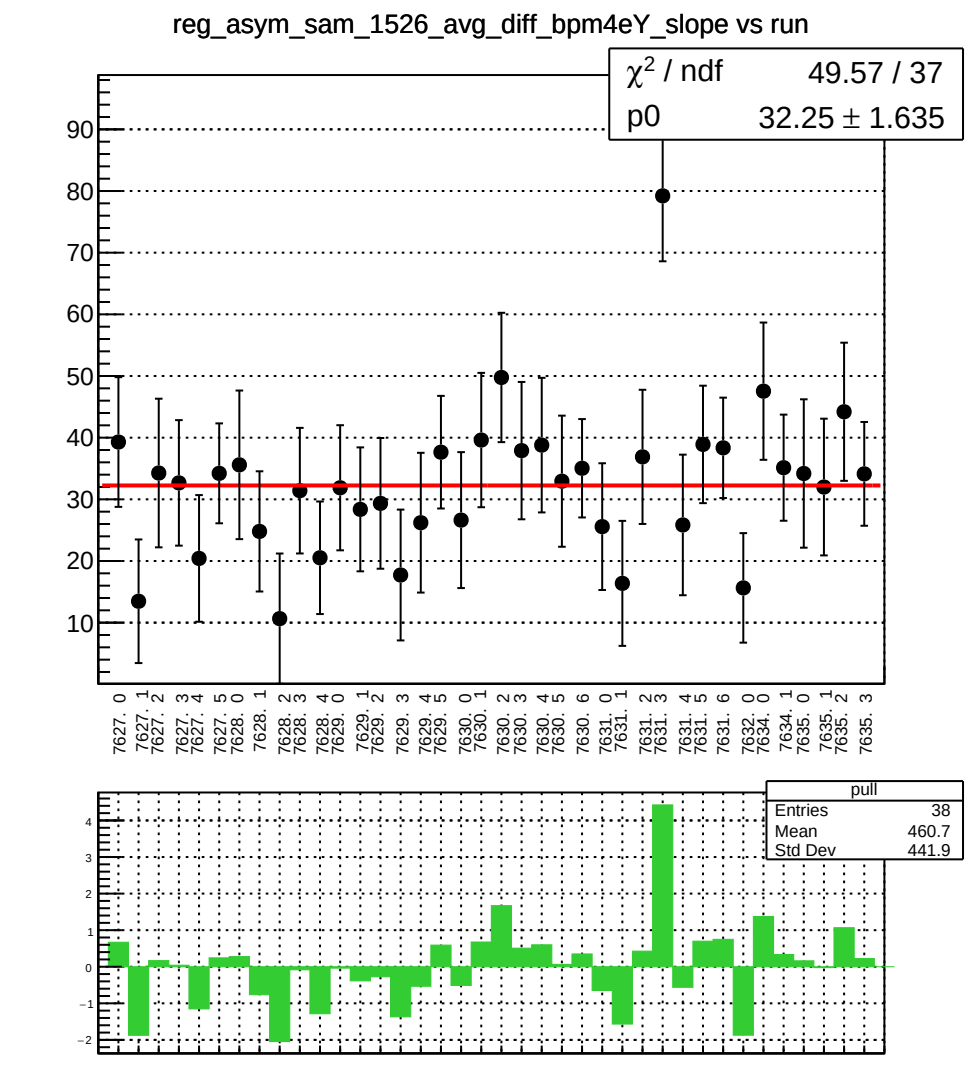

pull1D
Entries 38
Mean 0.1653
Std Dev 2.864

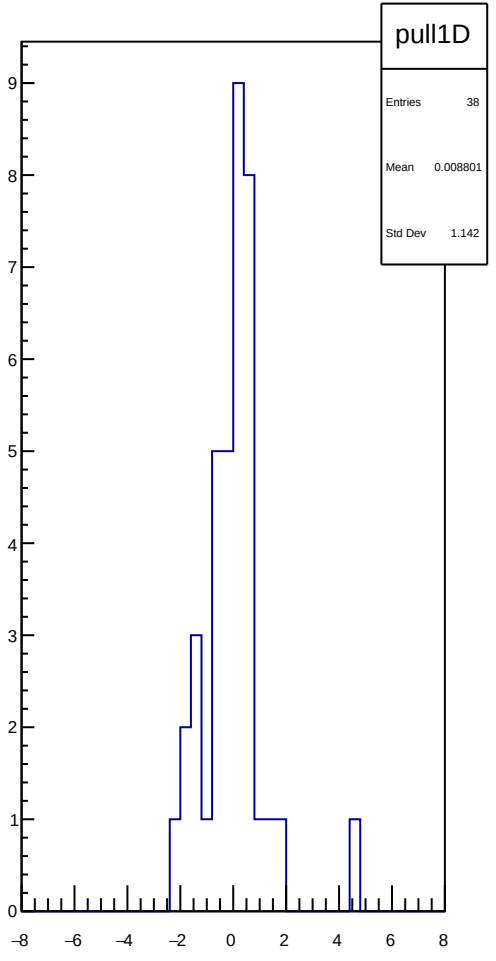

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 50.93 / 37
p0 −18.32 ± 1.116
pull
Entries 38
Mean 487.2
Std Dev 469.1

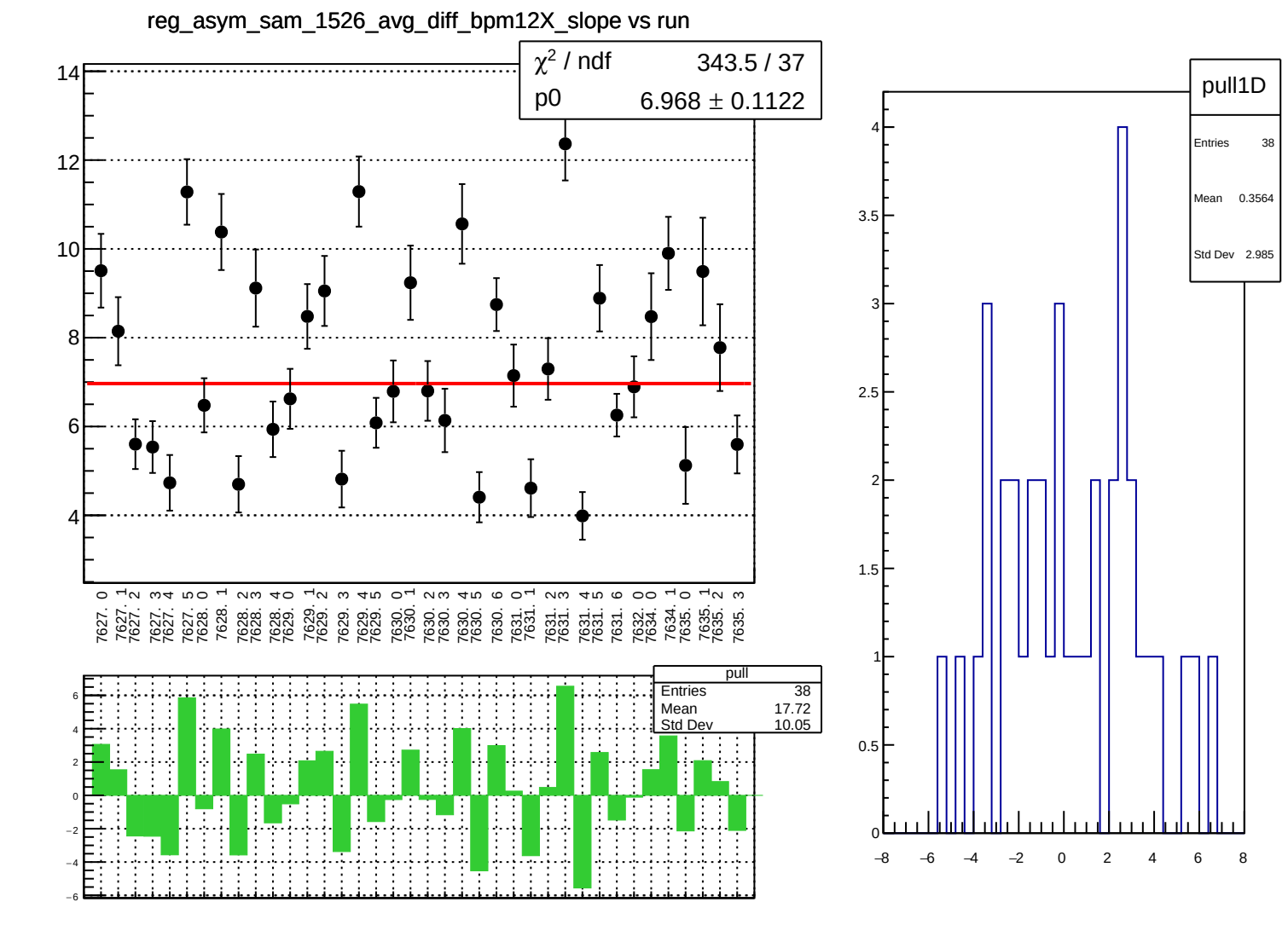

pull1D
Entries 38
Mean −0.006208
Std Dev 1.158

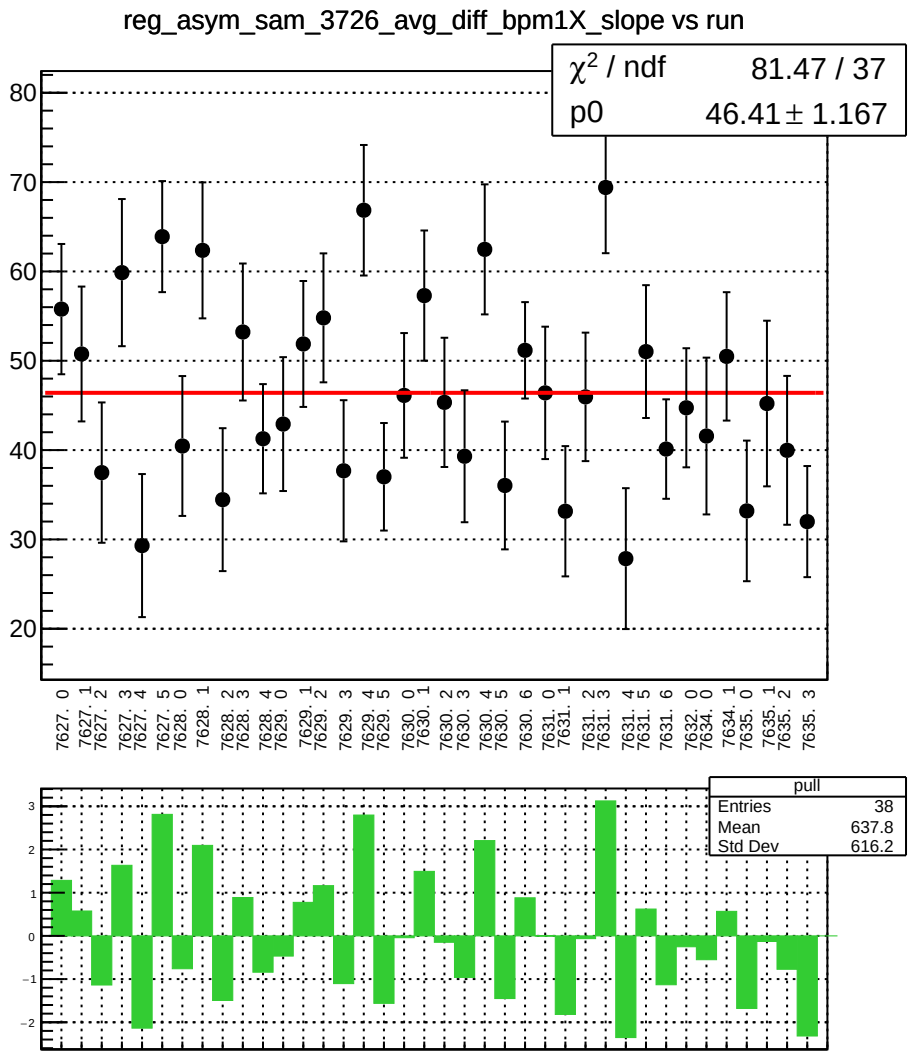

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 305.2 / 37
p0 −87.83 ± 0.7109
pull
Entries 38
Mean −53.89
Std Dev 74.23

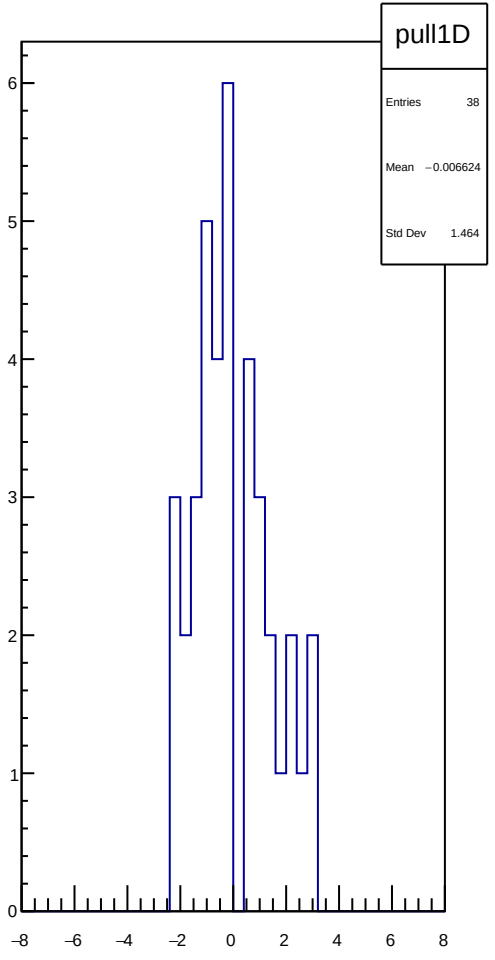

pull1D
Entries 38
Mean −0.1481
Std Dev 2.83

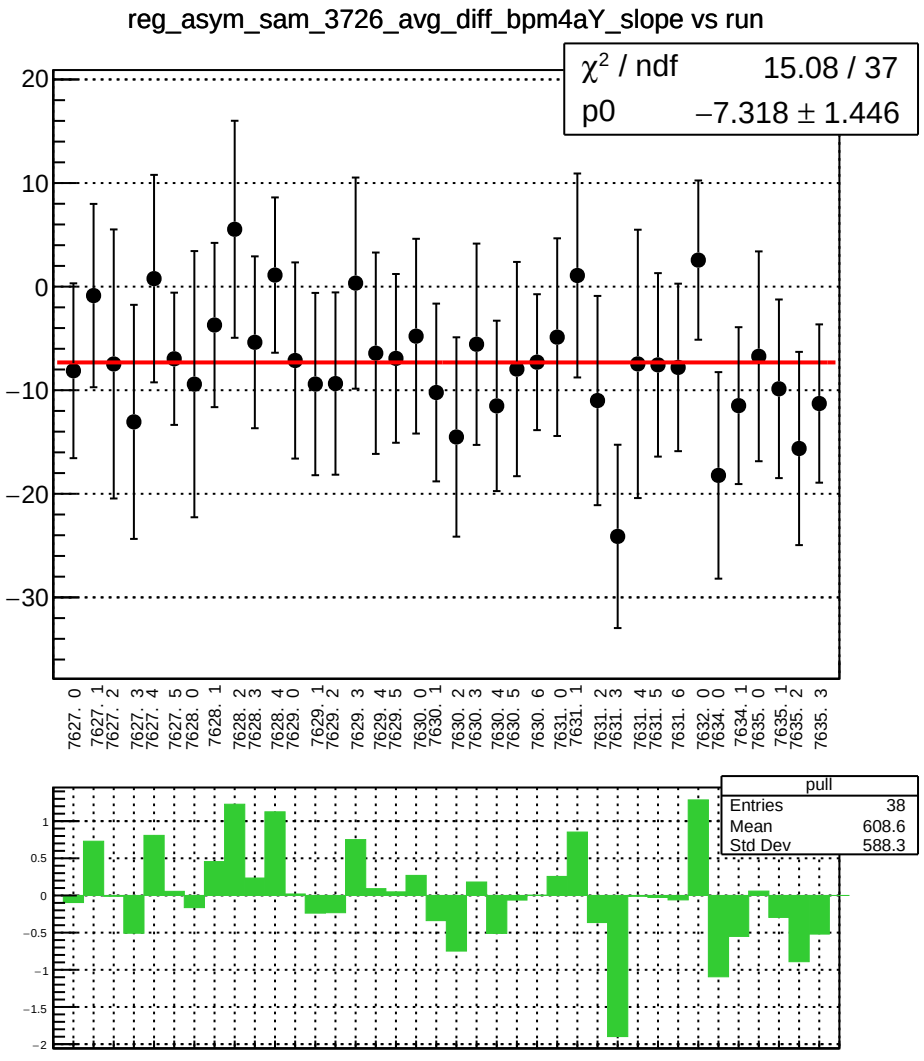

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 49.57 / 37
p0 32.25 ± 1.635
pull
Entries 38
Mean 460.7
Std Dev 441.9

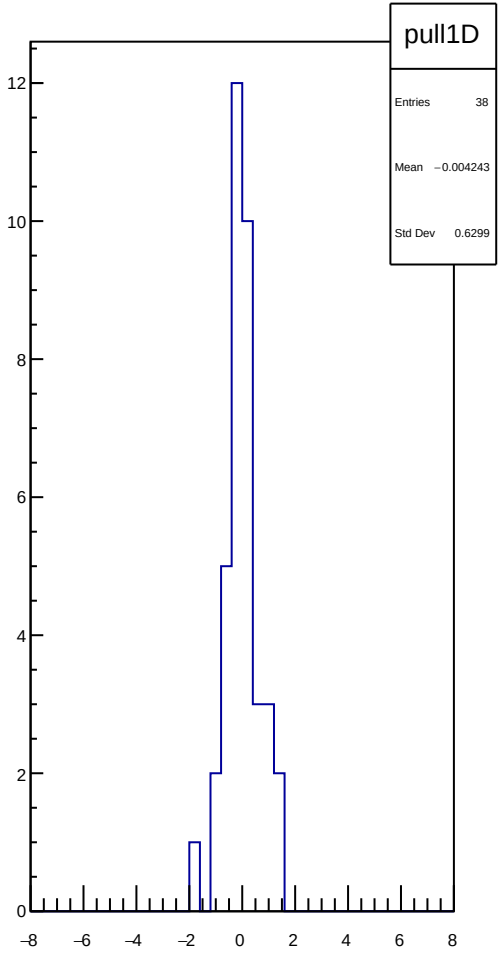

pull1D
Entries 38
Mean 0.008801
Std Dev 1.142

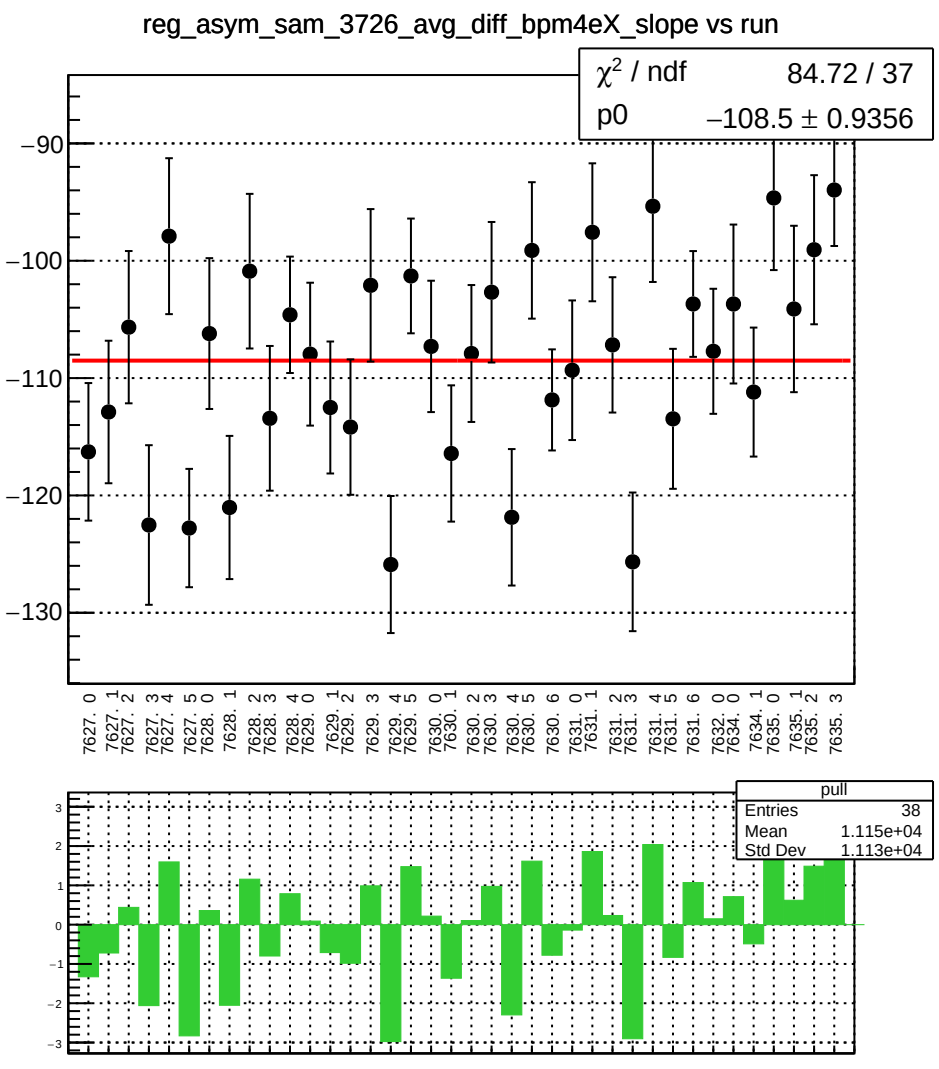

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 343.5 / 37
p0 6.968 ± 0.1122
pull
Entries 38
Mean 17.72
Std Dev 10.05
pull1D
Entries 38
Mean 0.3564
Std Dev 2.985

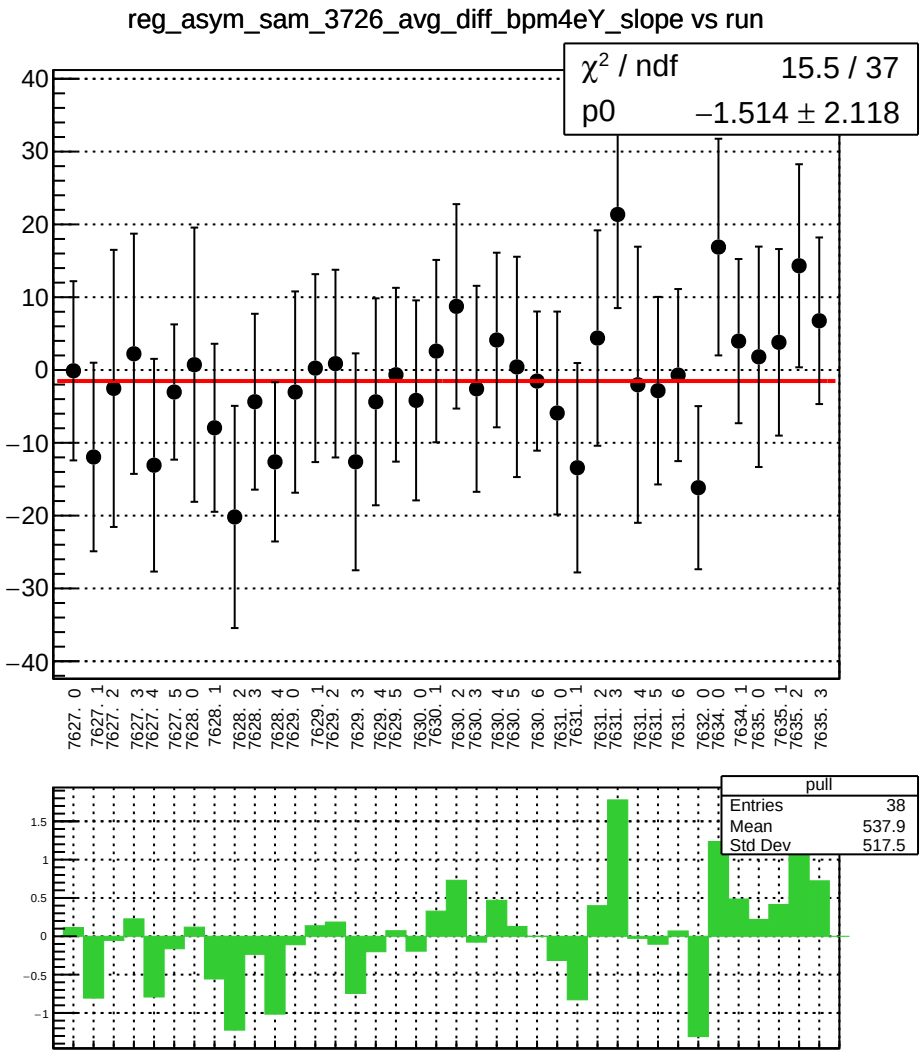

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 81.47 / 37
p0 46.41 ± 1.167
pull
Entries 38
Mean 637.8
Std Dev 616.2

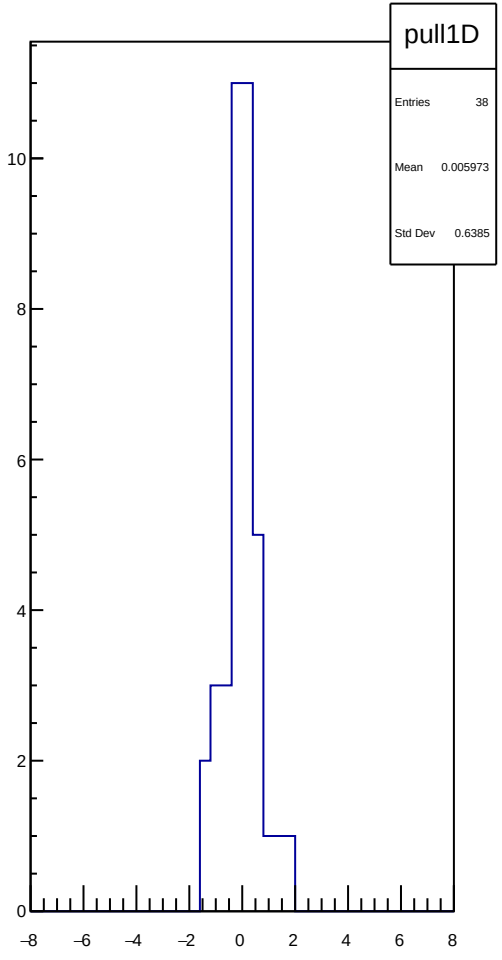

pull1D
Entries 38
Mean −0.006624
Std Dev 1.464

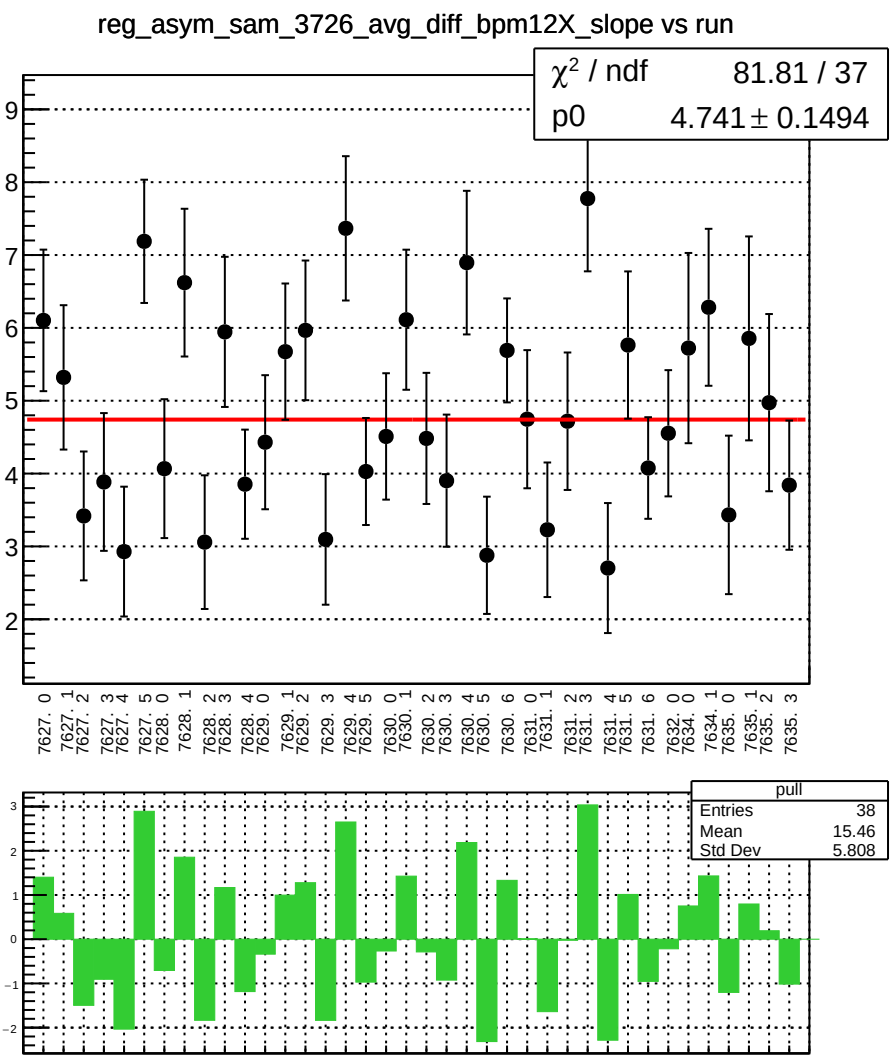

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 15.08 / 37
p0 −7.318 ± 1.446
20
10
0
−10
−20
−30
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 608.6
Std Dev 588.3
1
0.5
0
−0.5
−1
−1.5
−2

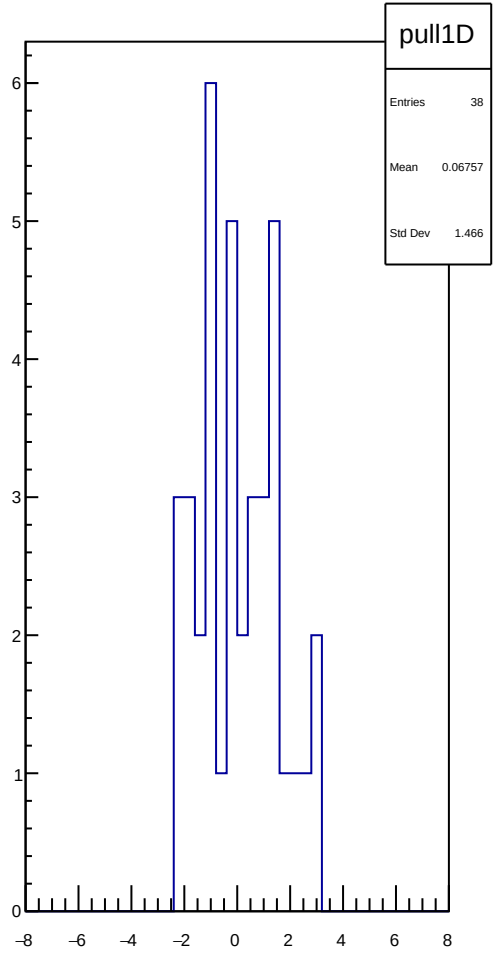

pull1D
Entries 38
Mean −0.004243
Std Dev 0.6299
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

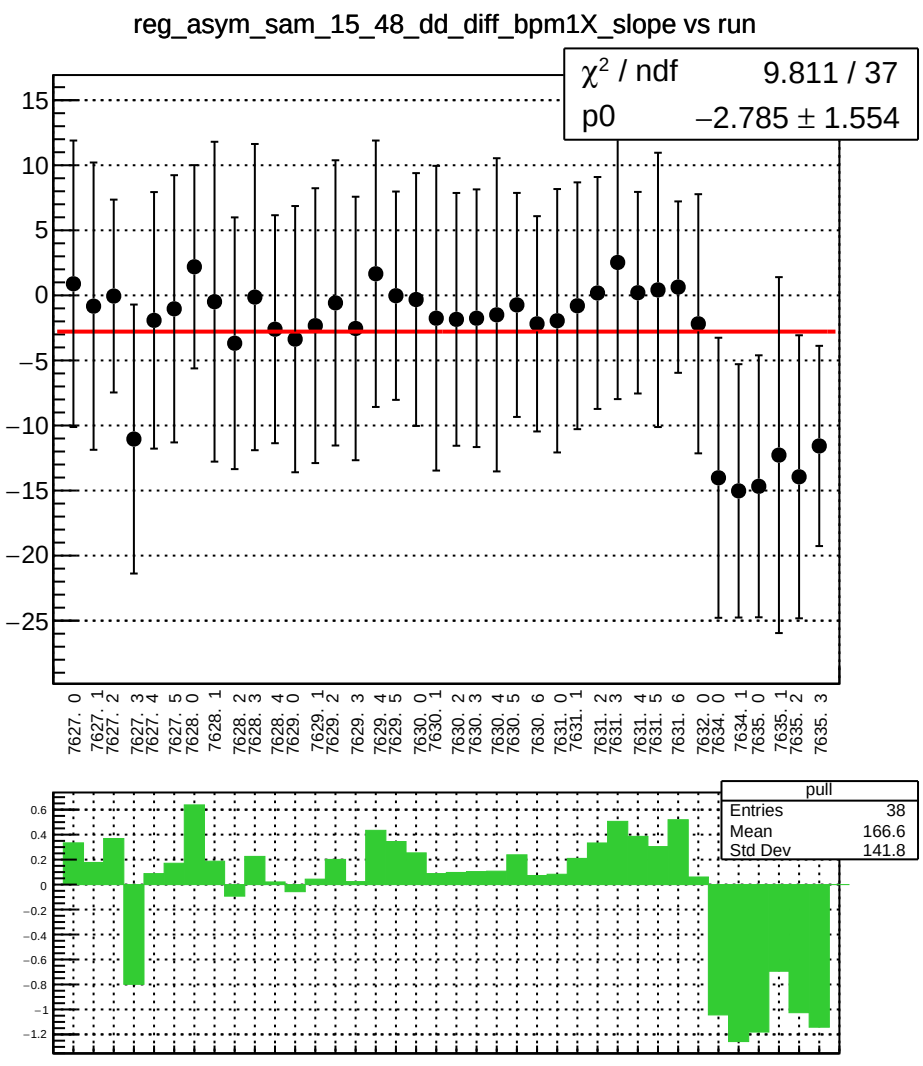

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 84.72 / 37
p0 −108.5 ± 0.9356
−90
−100
−110
−120
−130
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 1.115e+04
Std Dev 1.113e+04
3
2
1
0
−1
−2
−3
pull1D
Entries 38
Mean 0.0005626
Std Dev 1.493
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

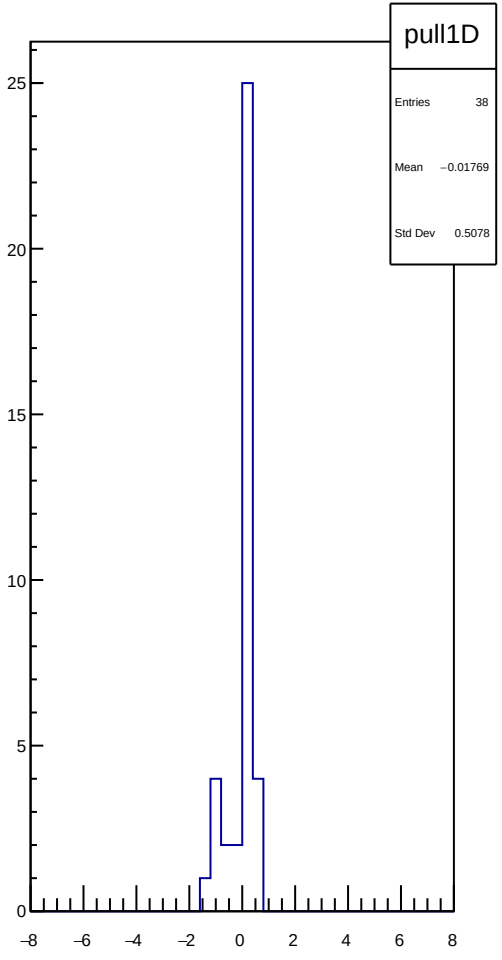

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 15.5 / 37
p0 −1.514 ± 2.118
pull
Entries 38
Mean 537.9
Std Dev 517.5

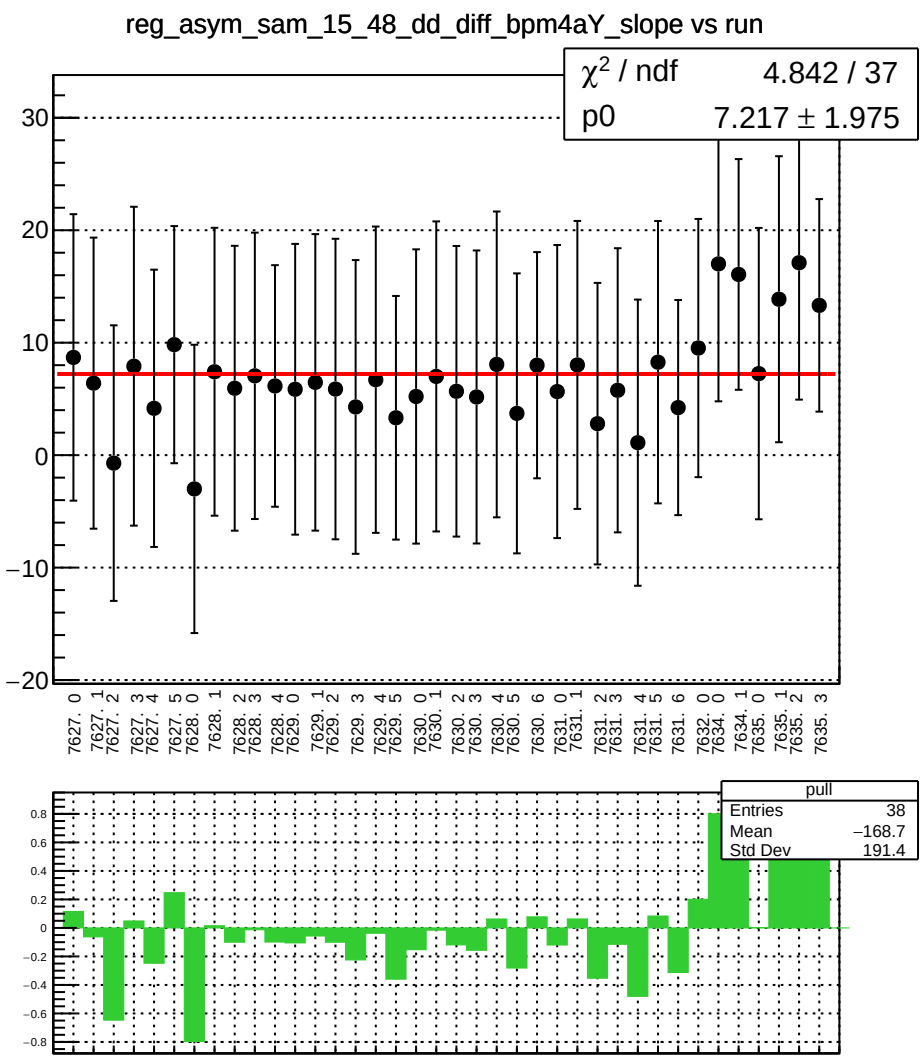

pull1D
Entries 38
Mean 0.005973
Std Dev 0.6385

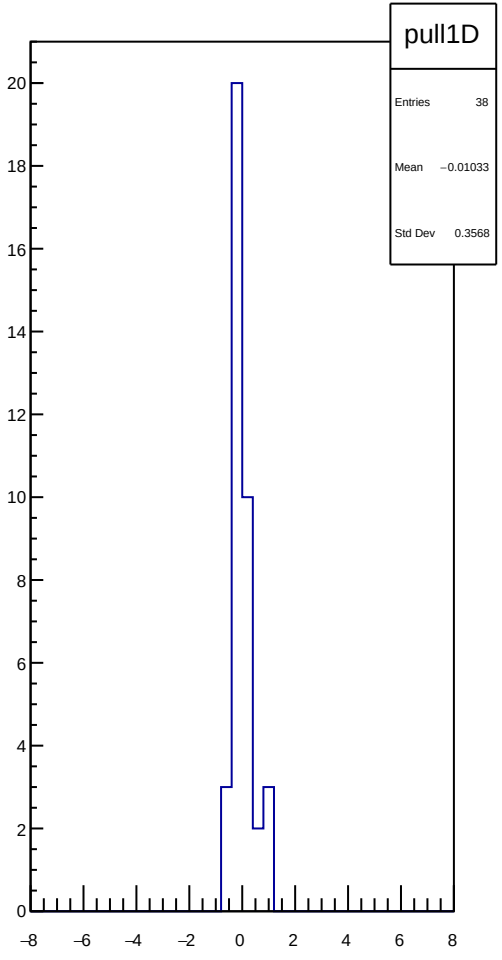

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 81.81 / 37
p0 4.741 ± 0.1494
pull
Entries 38
Mean 15.46
Std Dev 5.808

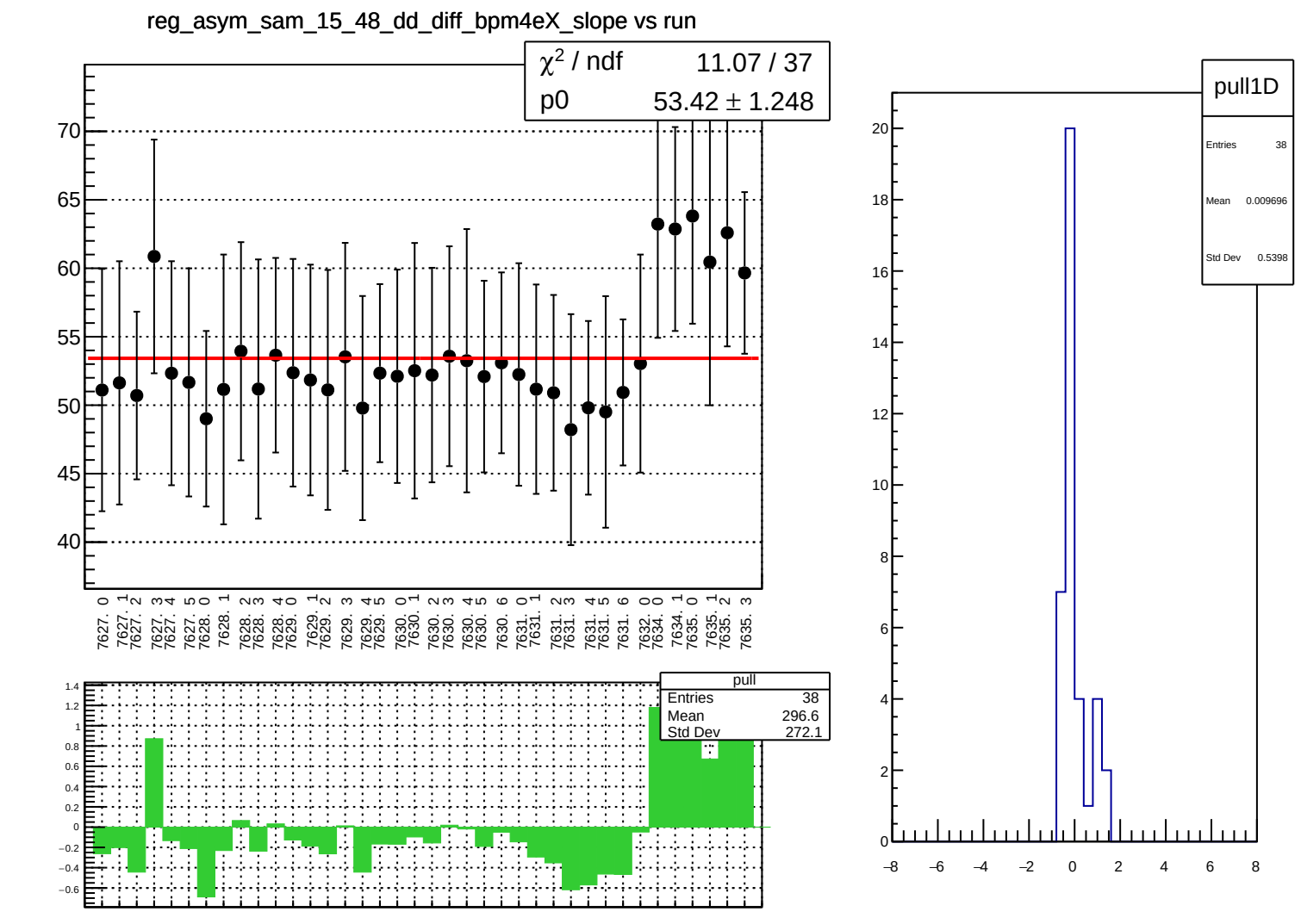

pull1D
Entries 38
Mean 0.06757
Std Dev 1.466

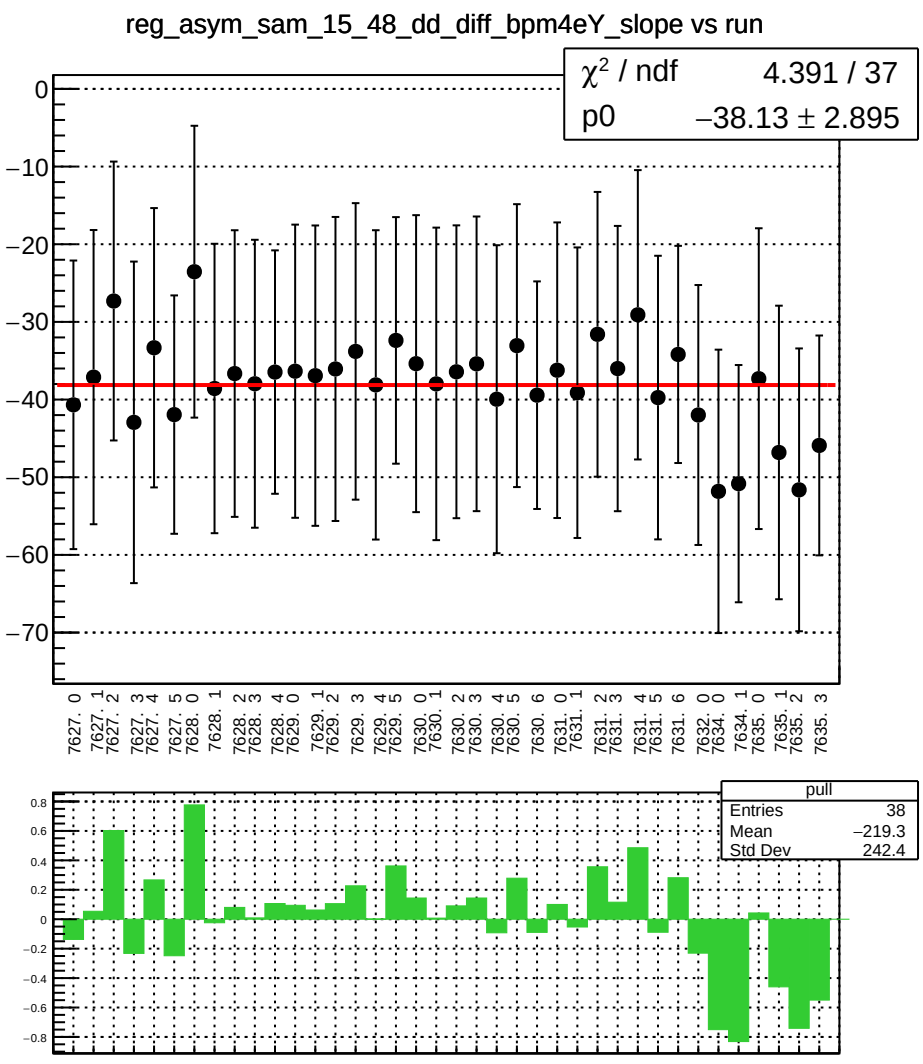

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 9.811 / 37
p0 −2.785 ± 1.554
pull
Entries 38
Mean 166.6
Std Dev 141.8

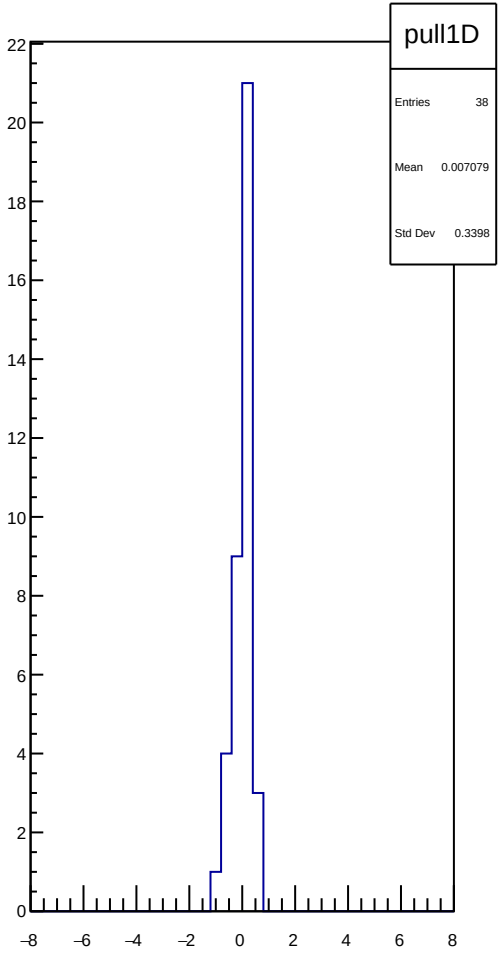

pull1D
Entries 38
Mean −0.01769
Std Dev 0.5078

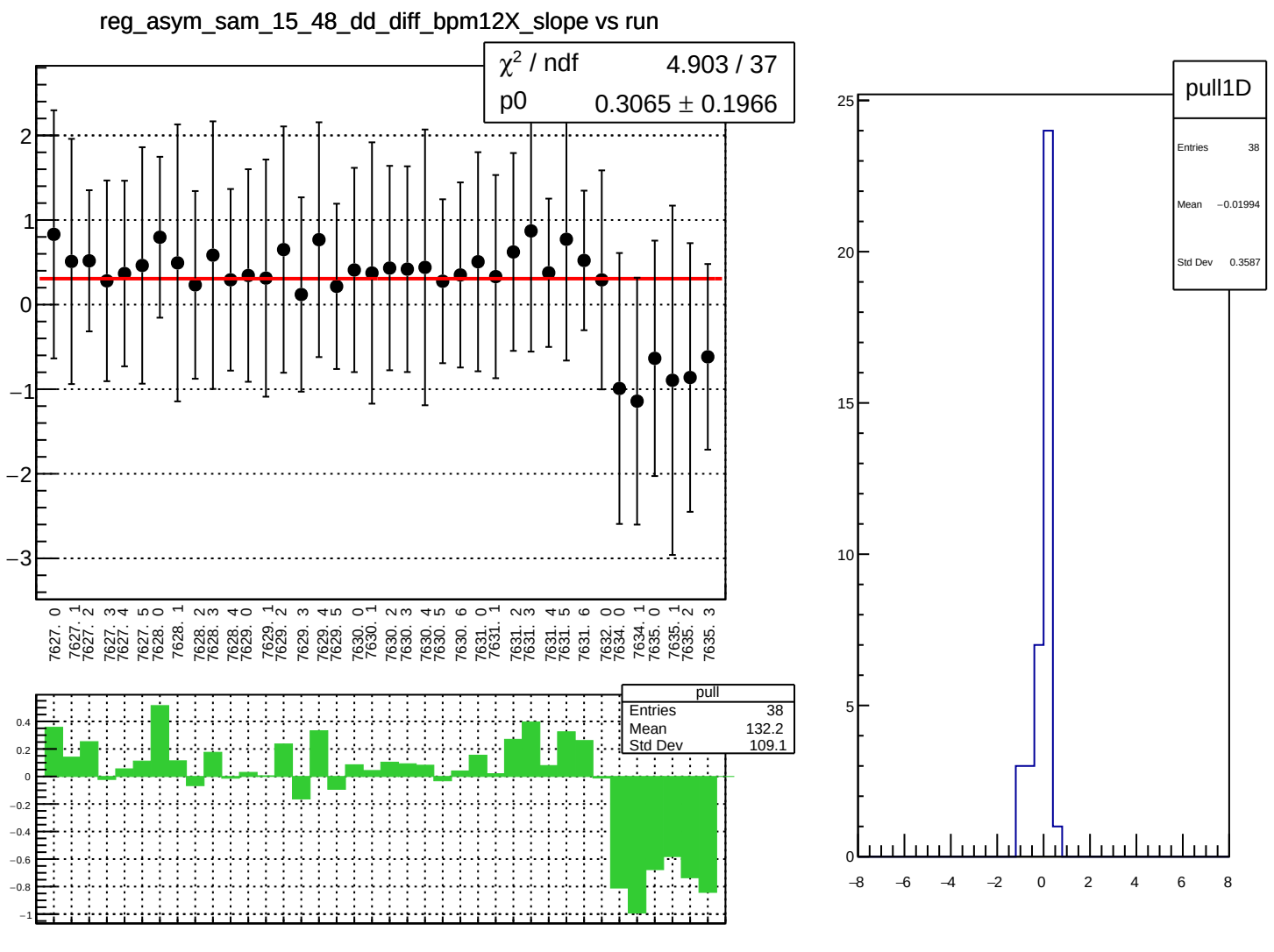

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.842 / 37
p0 7.217 ± 1.975
pull
Entries 38
Mean −168.7
Std Dev 191.4

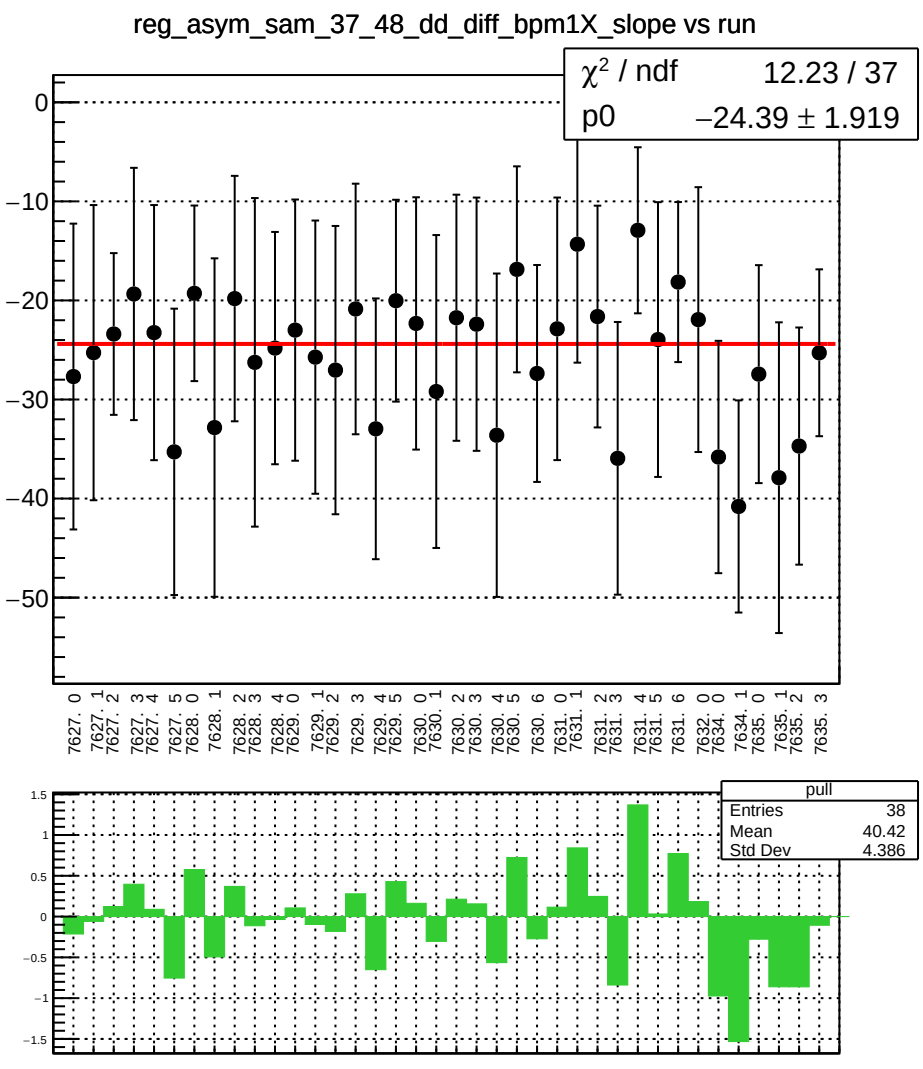

pull1D
Entries 38
Mean −0.01033
Std Dev 0.3568

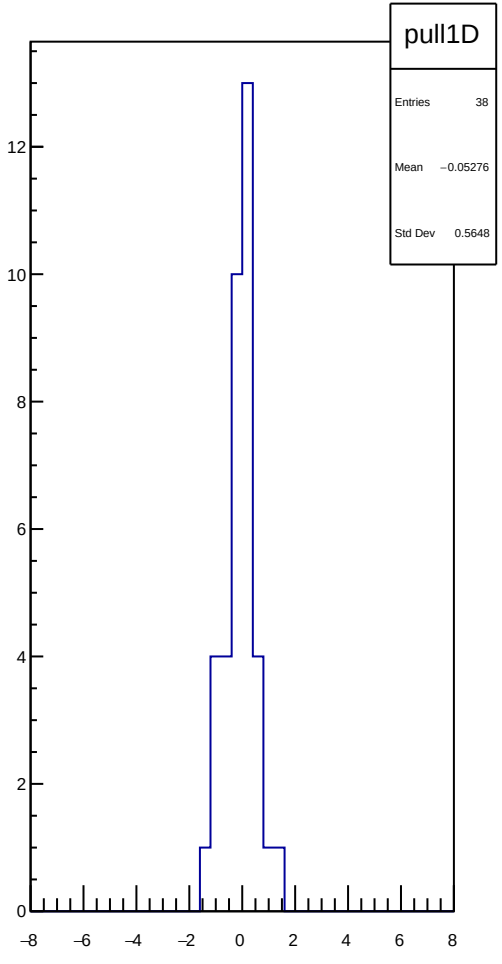

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 11.07 / 37
p0 53.42 ± 1.248
pull
Entries 38
Mean 296.6
Std Dev 272.1
pull1D
Entries 38
Mean 0.009696
Std Dev 0.5398

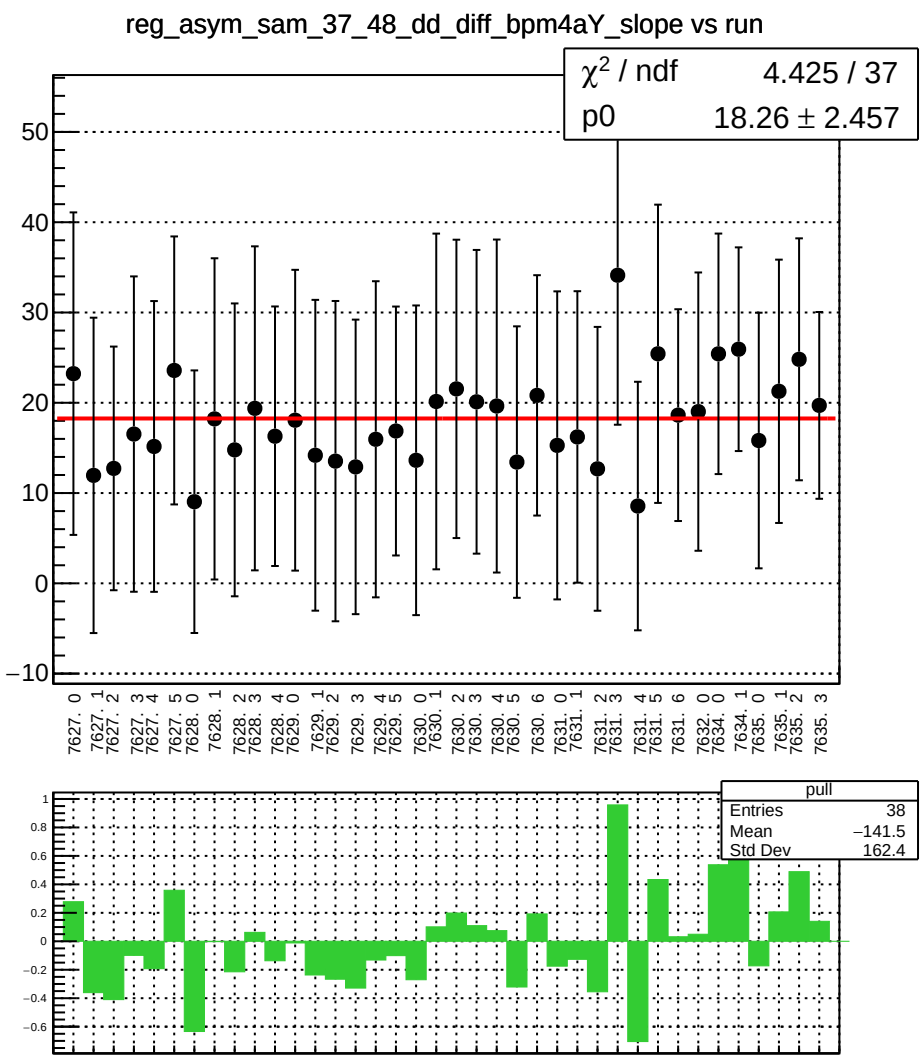

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.391 / 37
p0 −38.13 ± 2.895
pull
Entries 38
Mean −219.3
Std Dev 242.4

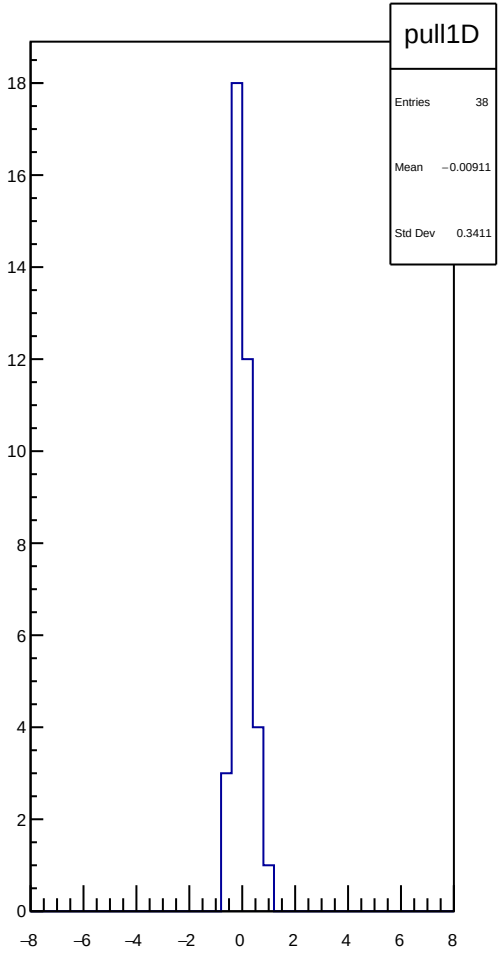

pull1D
Entries 38
Mean 0.007079
Std Dev 0.3398

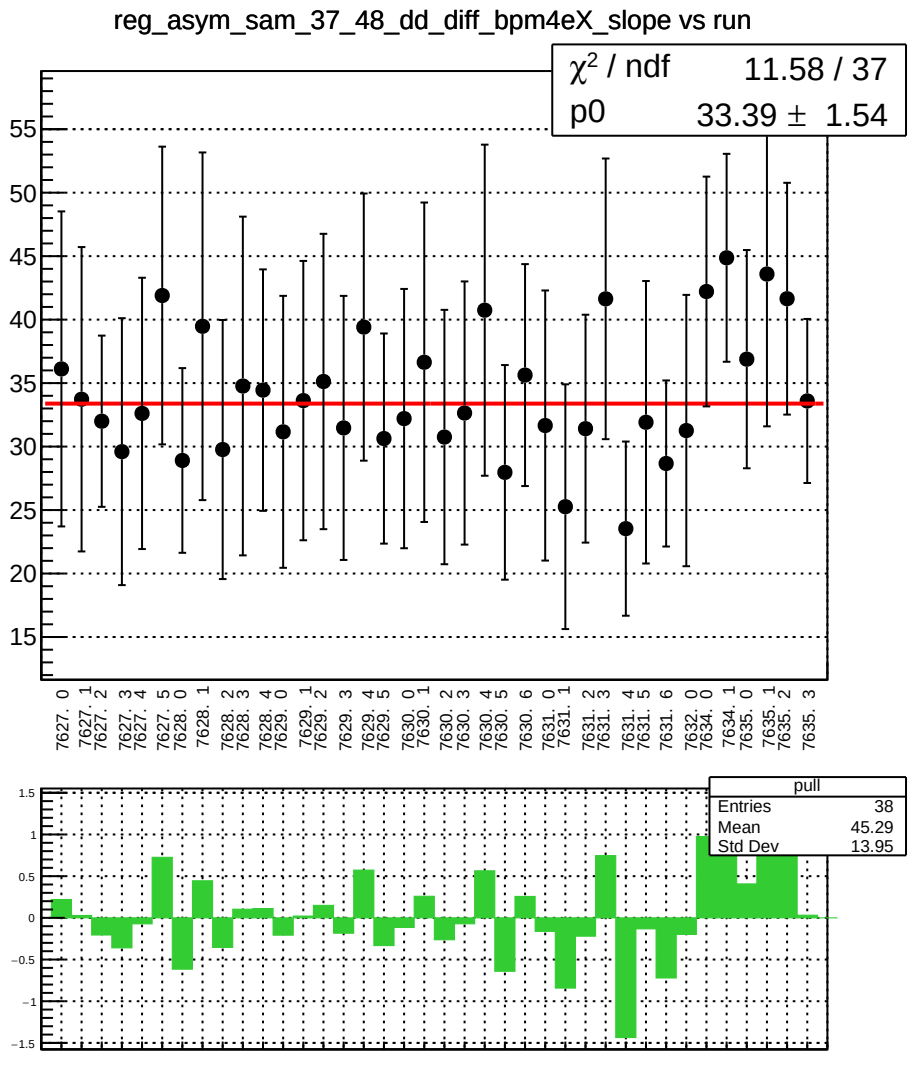

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 4.903 / 37
p0 0.3065 ± 0.1966
pull
Entries 38
Mean 132.2
Std Dev 109.1
pull1D
Entries 38
Mean −0.01994
Std Dev 0.3587

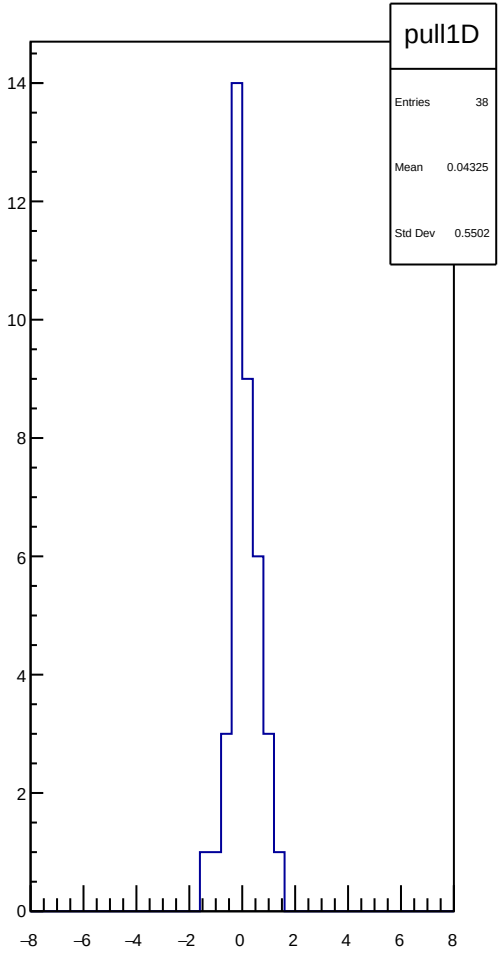

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 12.23 / 37
p0 −24.39 ± 1.919
pull
Entries 38
Mean 40.42
Std Dev 4.386

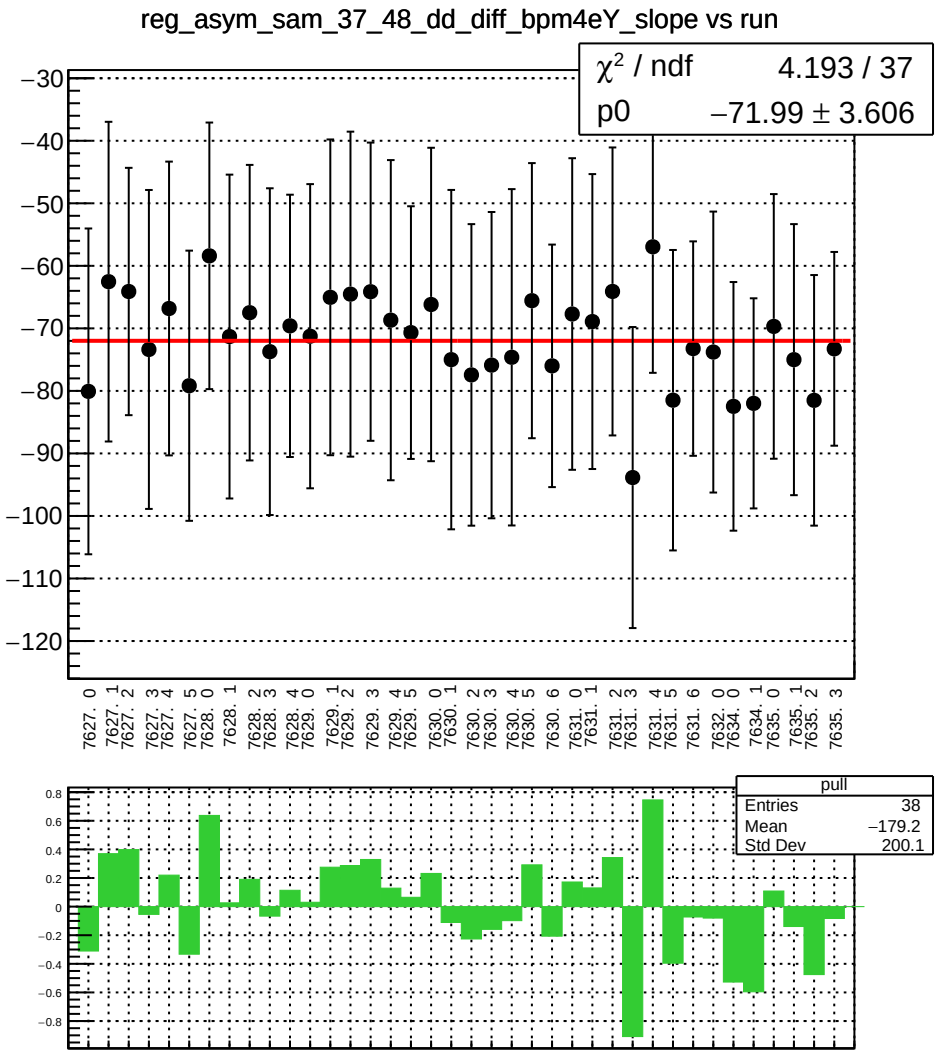

pull1D
Entries 38
Mean −0.05276
Std Dev 0.5648

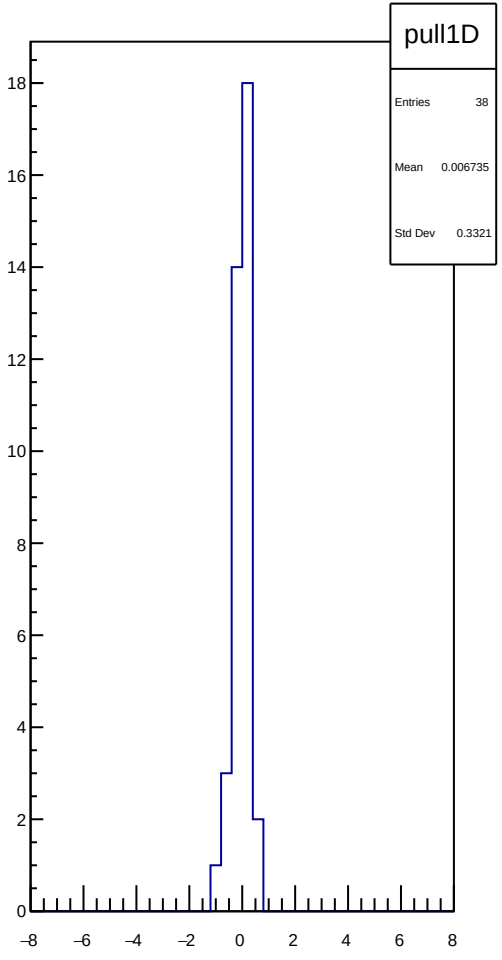

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.425 / 37
p0 18.26 ± 2.457
pull
Entries 38
Mean −141.5
Std Dev 162.4

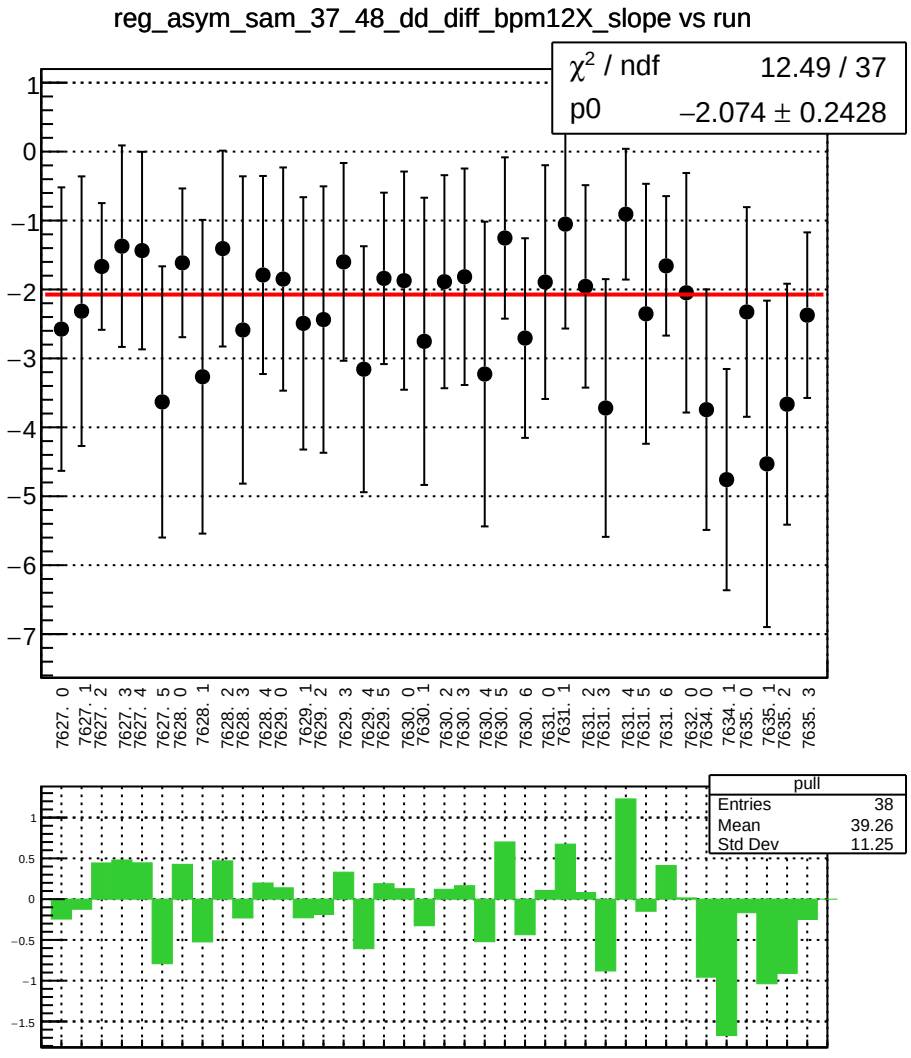

pull1D
Entries 38
Mean −0.00911
Std Dev 0.3411

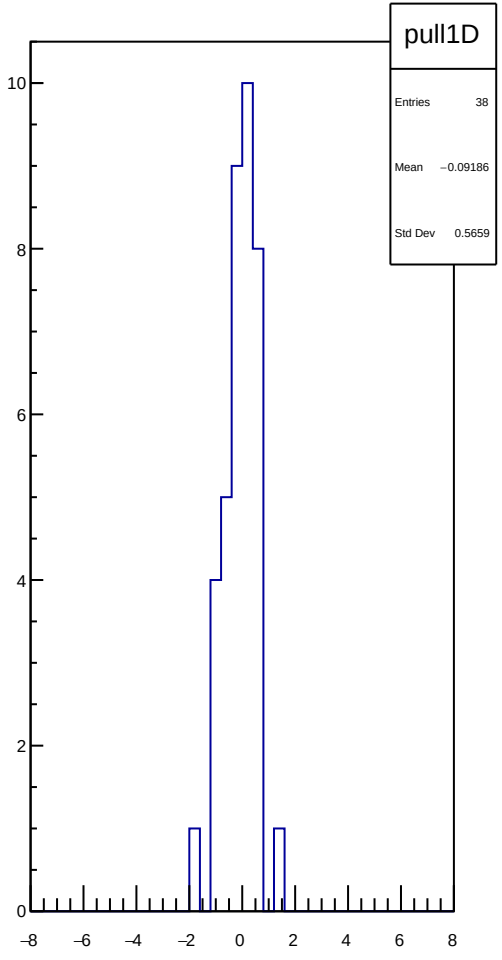

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 11.58 / 37
p0 33.39 ± 1.54
pull
Entries 38
Mean 45.29
Std Dev 13.95

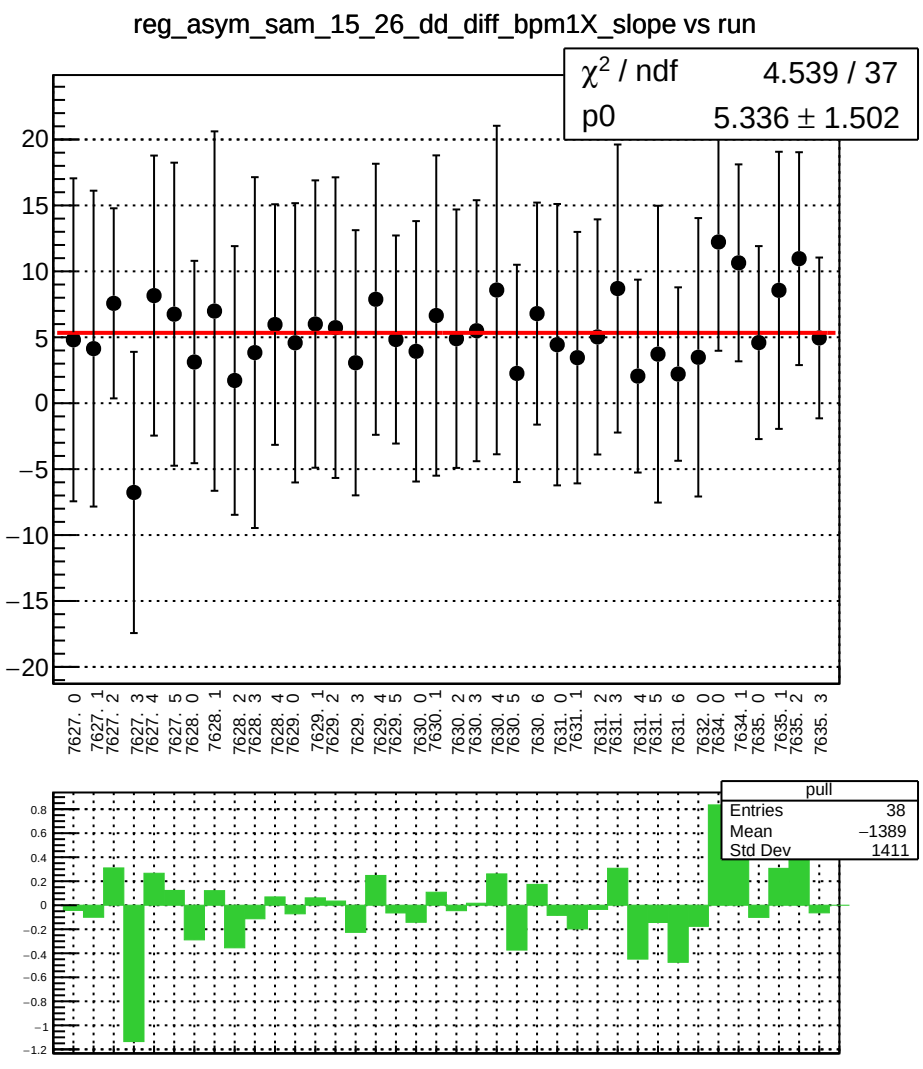

pull1D
Entries 38
Mean 0.04325
Std Dev 0.5502

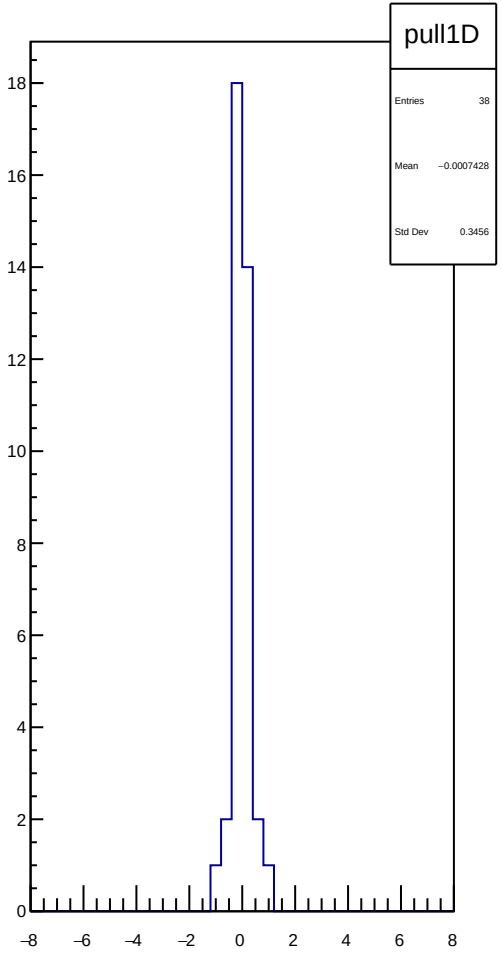

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.193 / 37
p0 −71.99 ± 3.606
pull
Entries 38
Mean −179.2
Std Dev 200.1

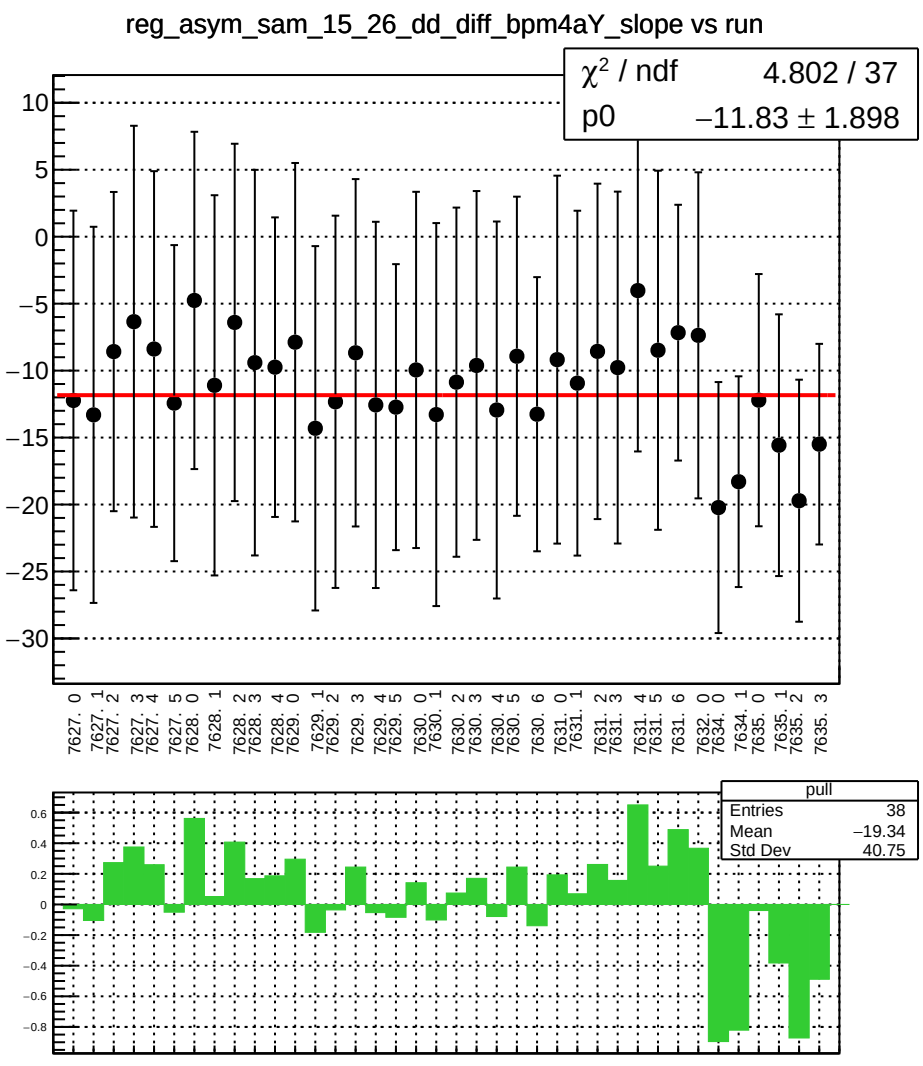

pull1D
Entries 38
Mean 0.006735
Std Dev 0.3321

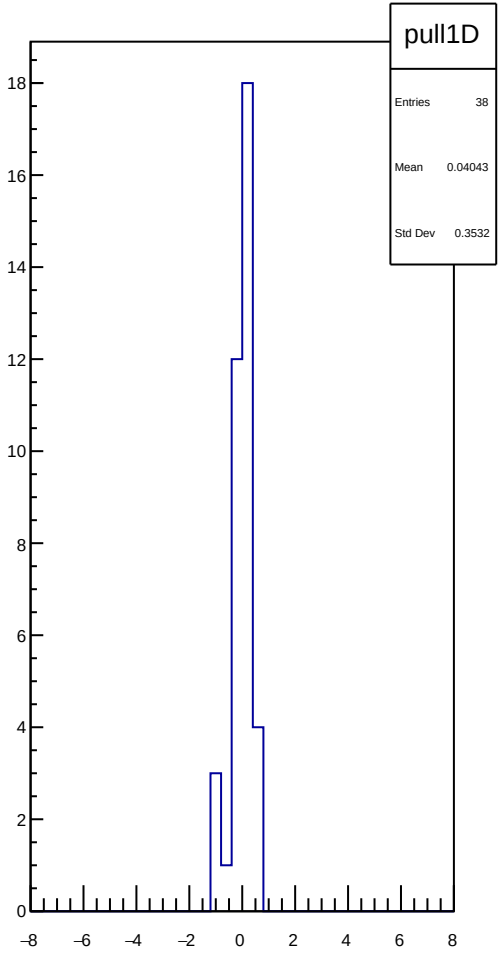

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 12.49 / 37
p0 −2.074 ± 0.2428
pull
Entries 38
Mean 39.26
Std Dev 11.25

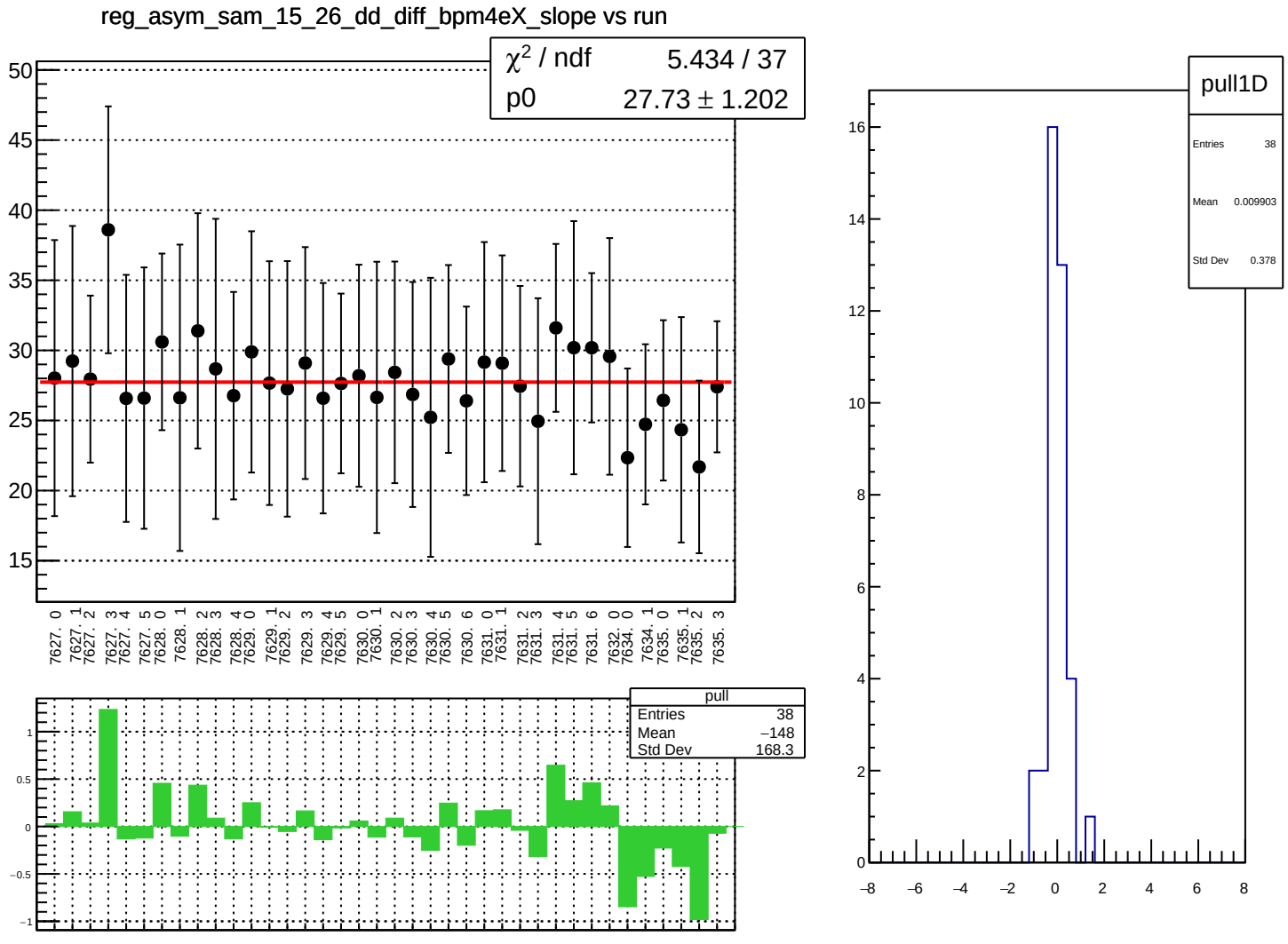

pull1D
Entries 38
Mean −0.09186
Std Dev 0.5659

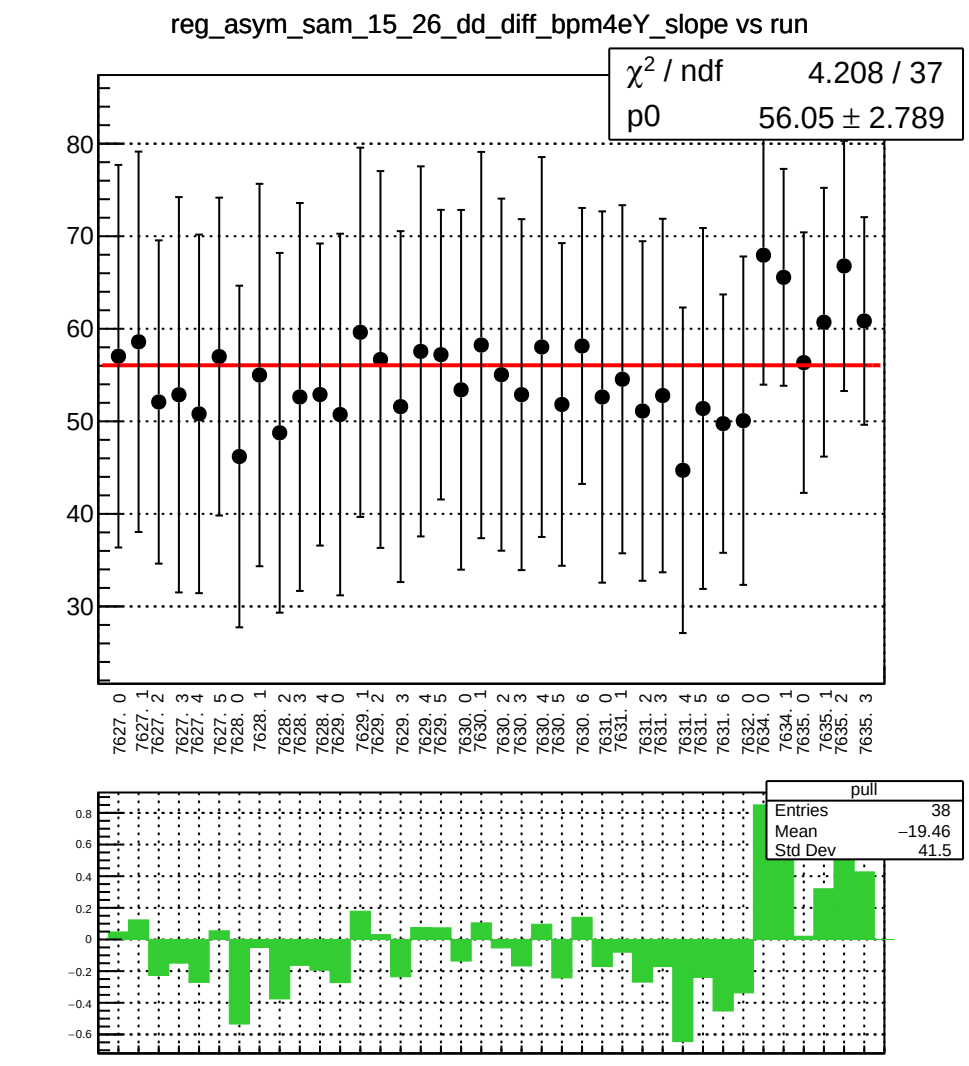

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 4.539 / 37
p0 5.336 ± 1.502
pull
Entries 38
Mean −1389
Std Dev 1411

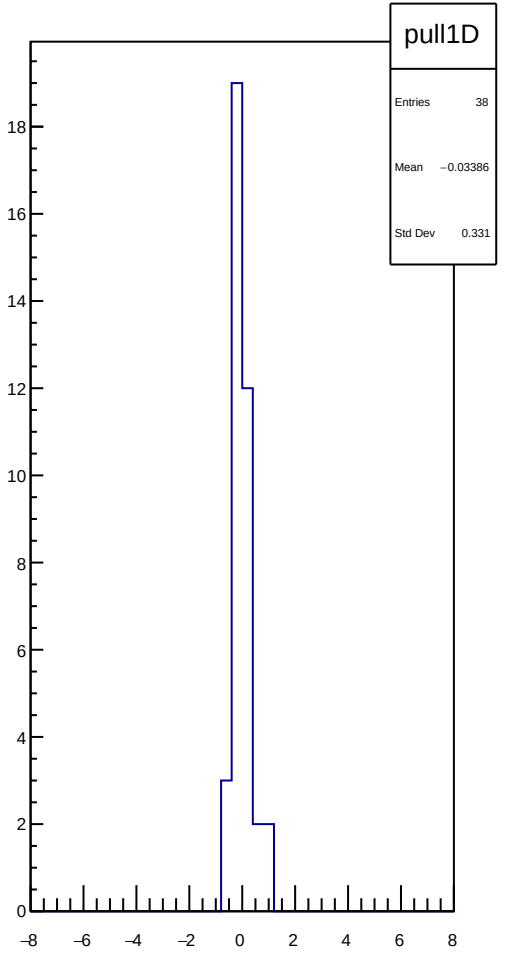

pull1D
Entries 38
Mean −0.0007428
Std Dev 0.3456

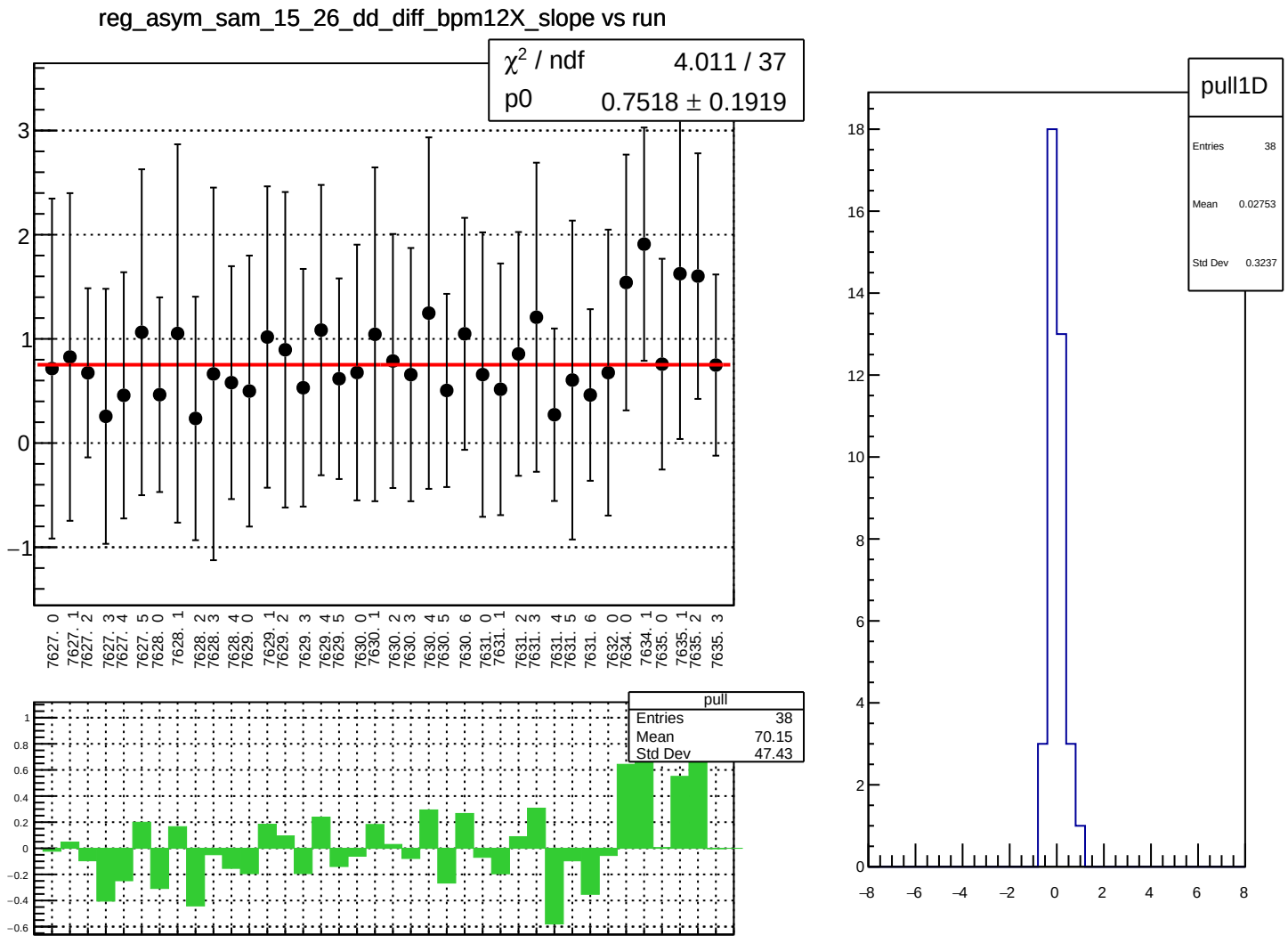

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.802 / 37
p0 −11.83 ± 1.898
pull
Entries 38
Mean −19.34
Std Dev 40.75

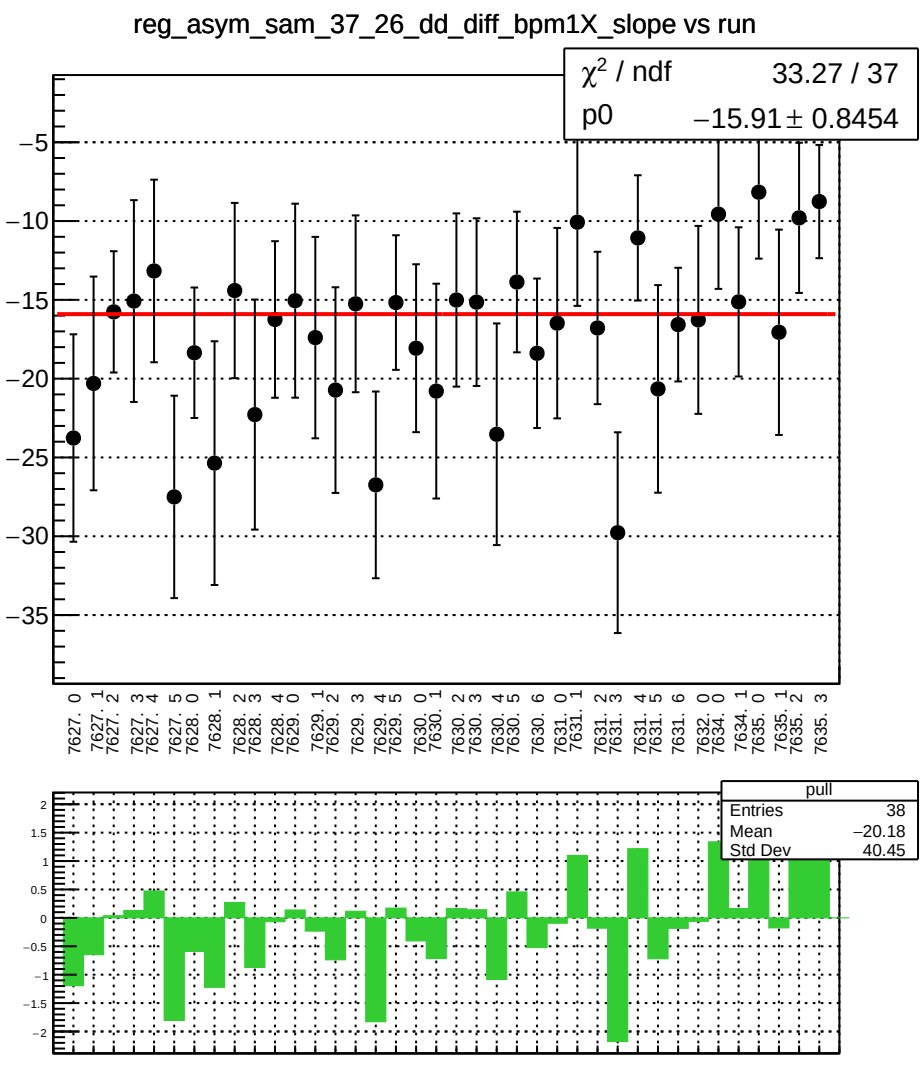

pull1D
Entries 38
Mean 0.04043
Std Dev 0.3532

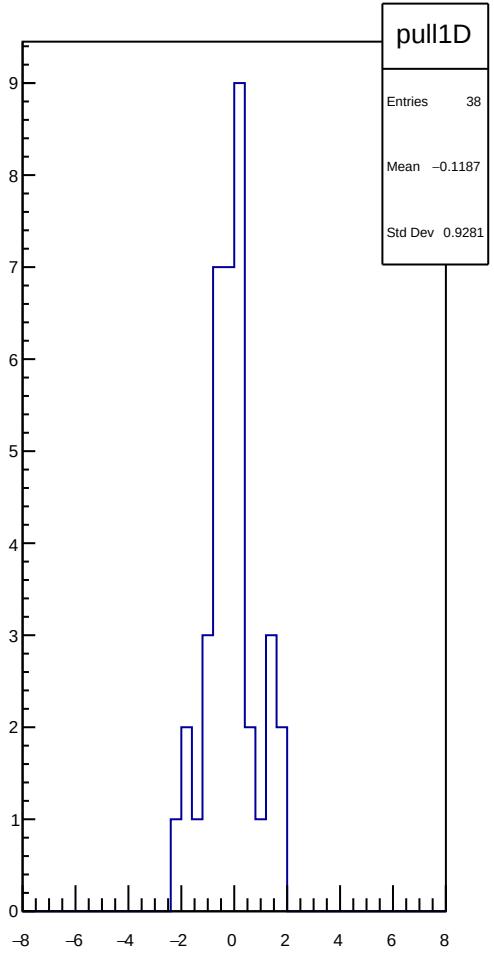

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.434 / 37
p0 27.73 ± 1.202
pull
Entries 38
Mean −148
Std Dev 168.3
pull1D
Entries 38
Mean 0.009903
Std Dev 0.378

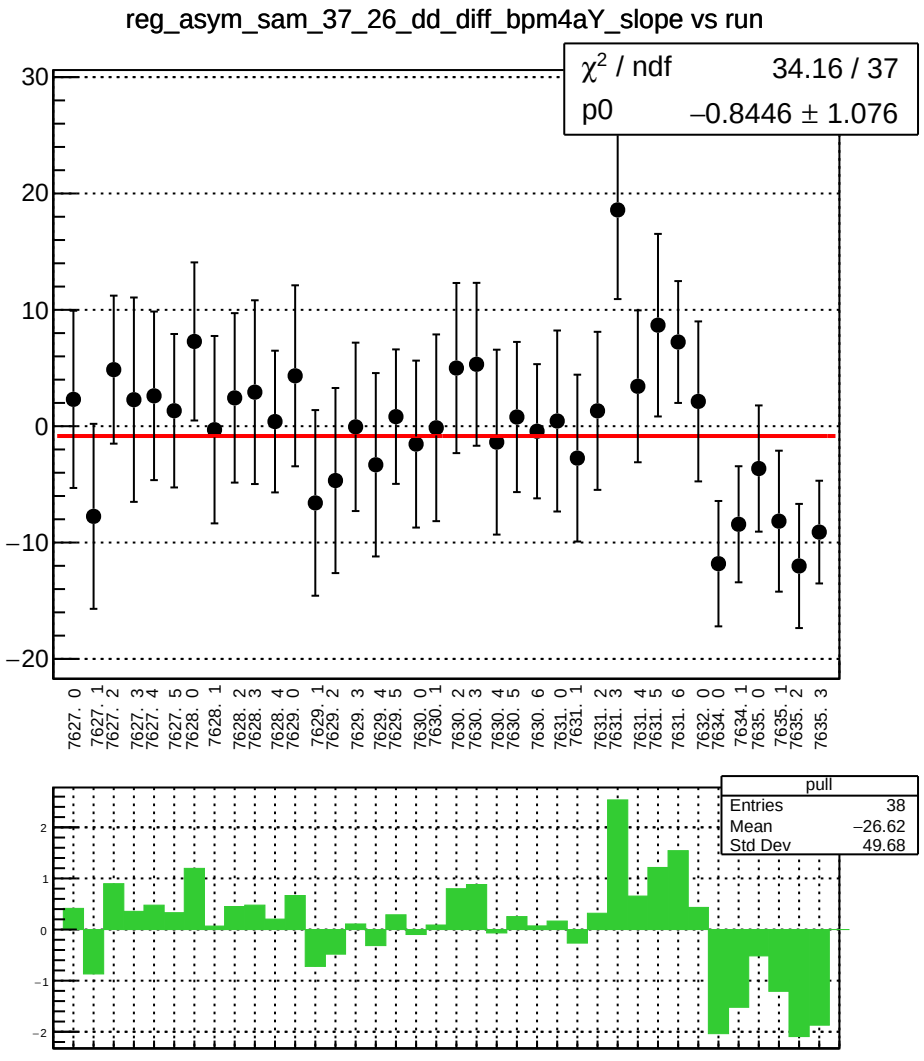

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.208 / 37
p0 56.05 ± 2.789
80
70
60
50
40
30
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −19.46
Std Dev 41.5
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

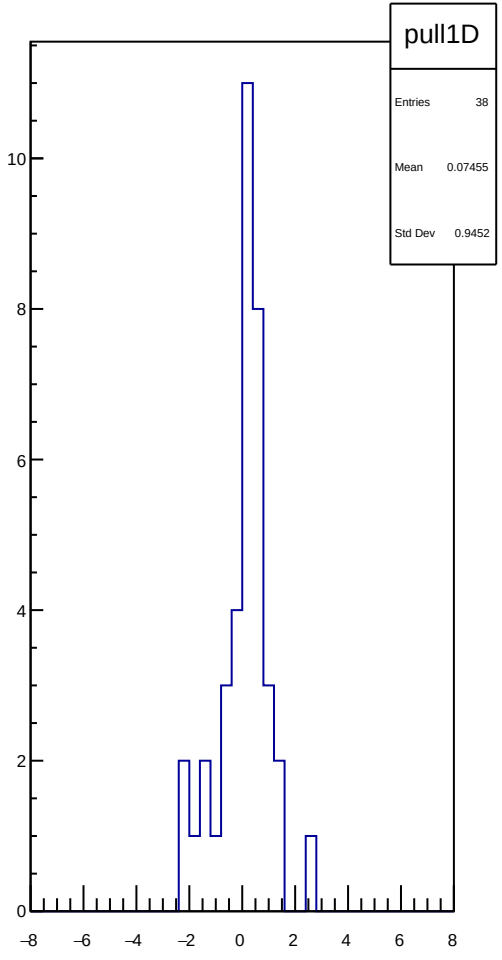

pull1D
Entries 38
Mean −0.03386
Std Dev 0.331
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

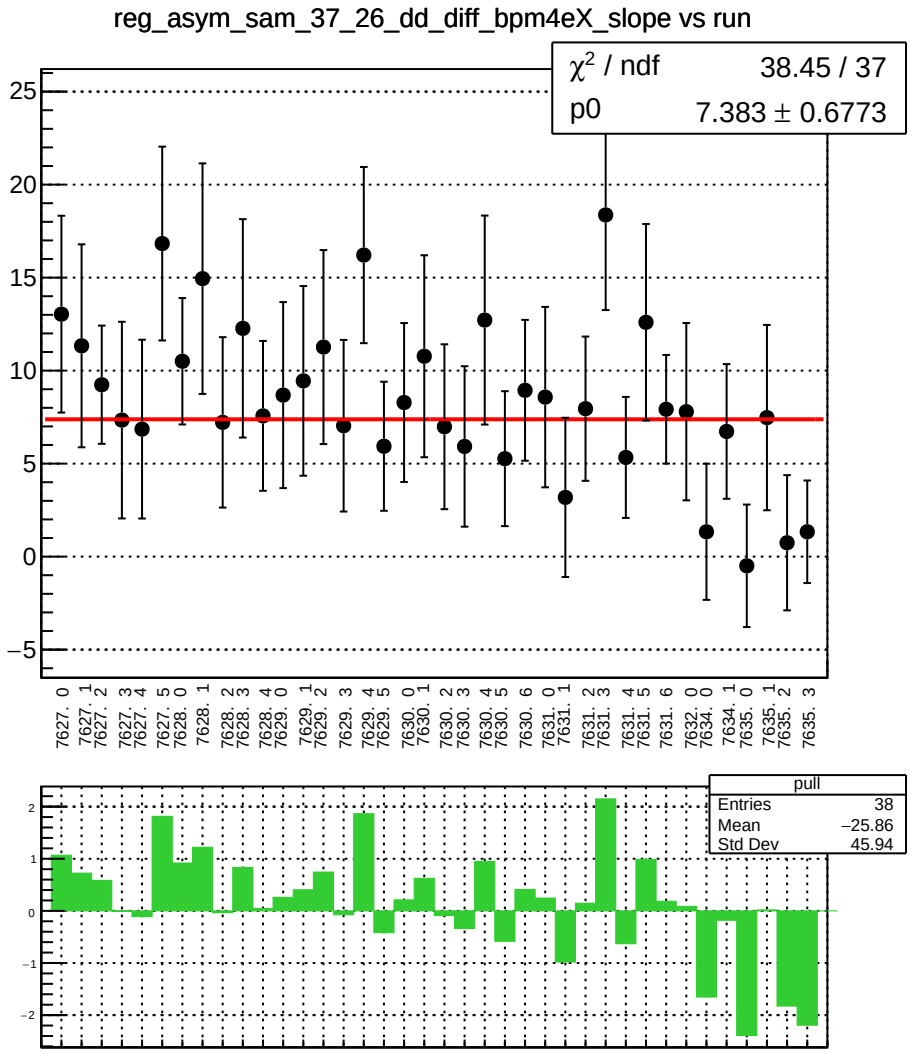

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 4.011 / 37
p0 0.7518 ± 0.1919
pull
Entries 38
Mean 70.15
Std Dev 47.43
pull1D
Entries 38
Mean 0.02753
Std Dev 0.3237

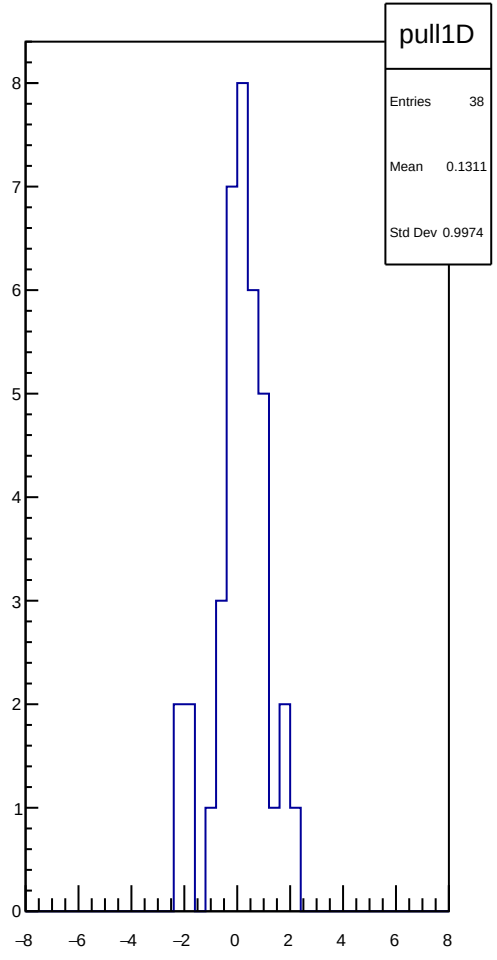

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 33.27 / 37
p0 −15.91 ± 0.8454
pull
Entries 38
Mean −20.18
Std Dev 40.45

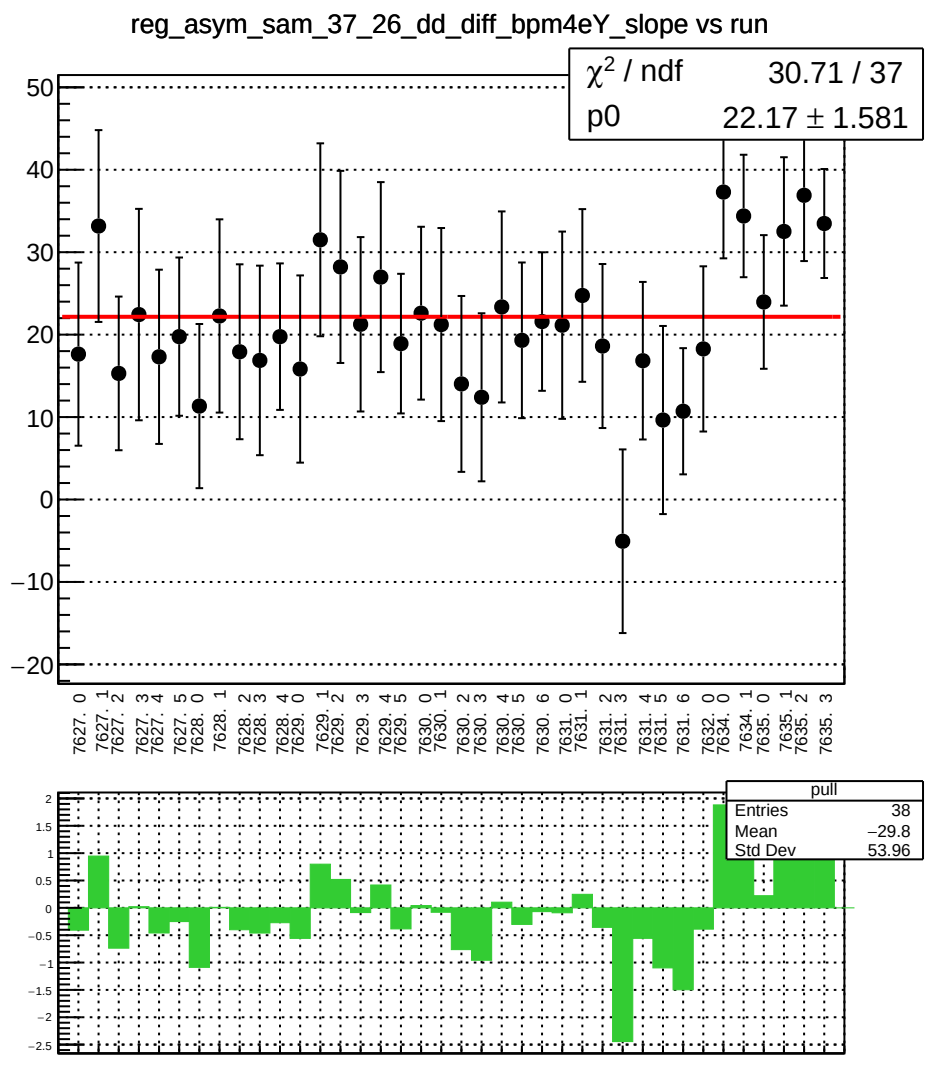

pull1D
Entries 38
Mean −0.1187
Std Dev 0.9281

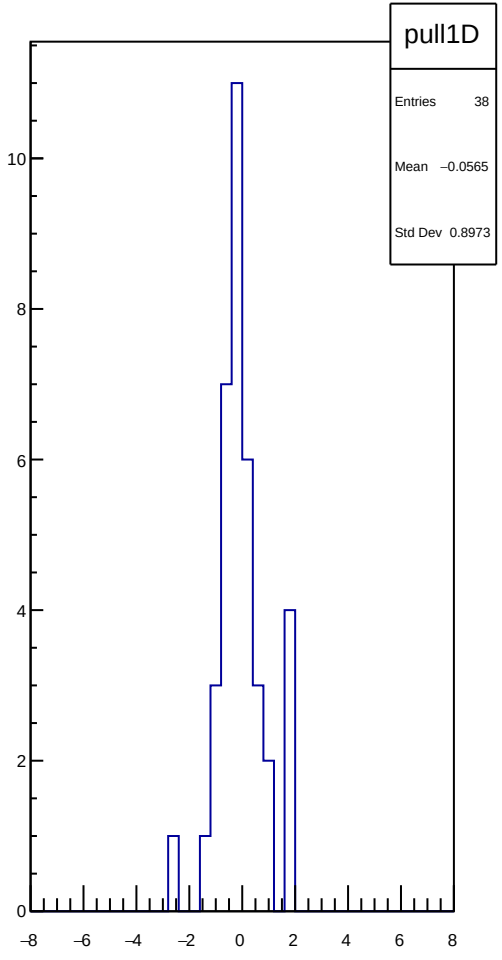

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 34.16 / 37
p0 −0.8446 ± 1.076
30
20
10
0
−10
−20
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −26.62
Std Dev 49.68
2
1
0
−1
−2

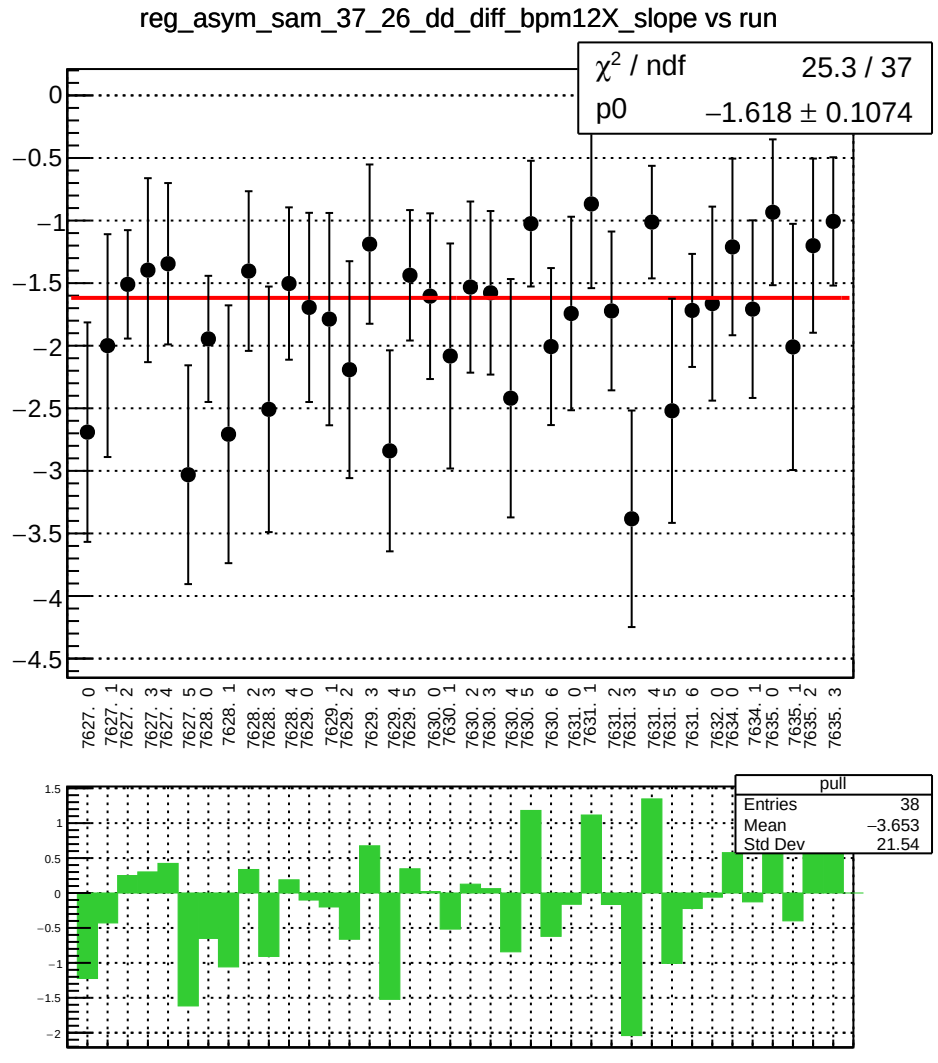

pull1D
Entries 38
Mean 0.07455
Std Dev 0.9452
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

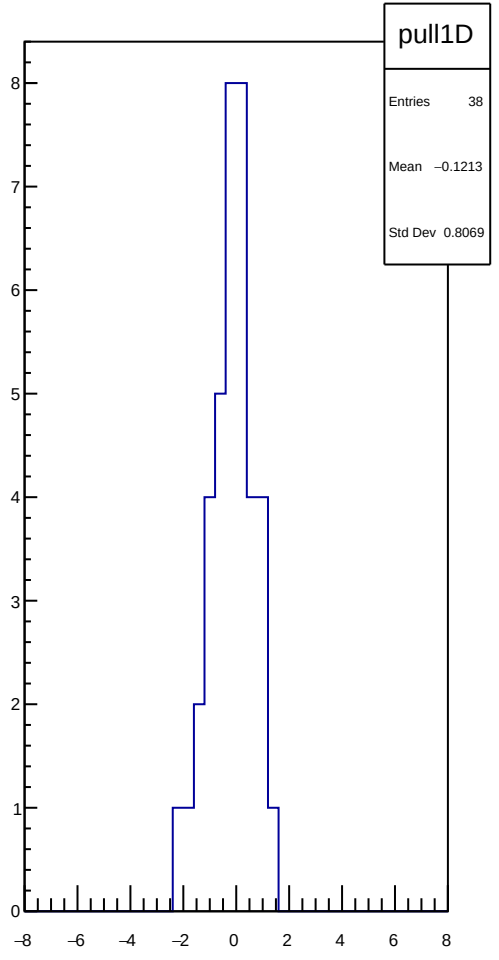

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 38.45 / 37
p0 7.383 ± 0.6773
pull
Entries 38
Mean −25.86
Std Dev 45.94

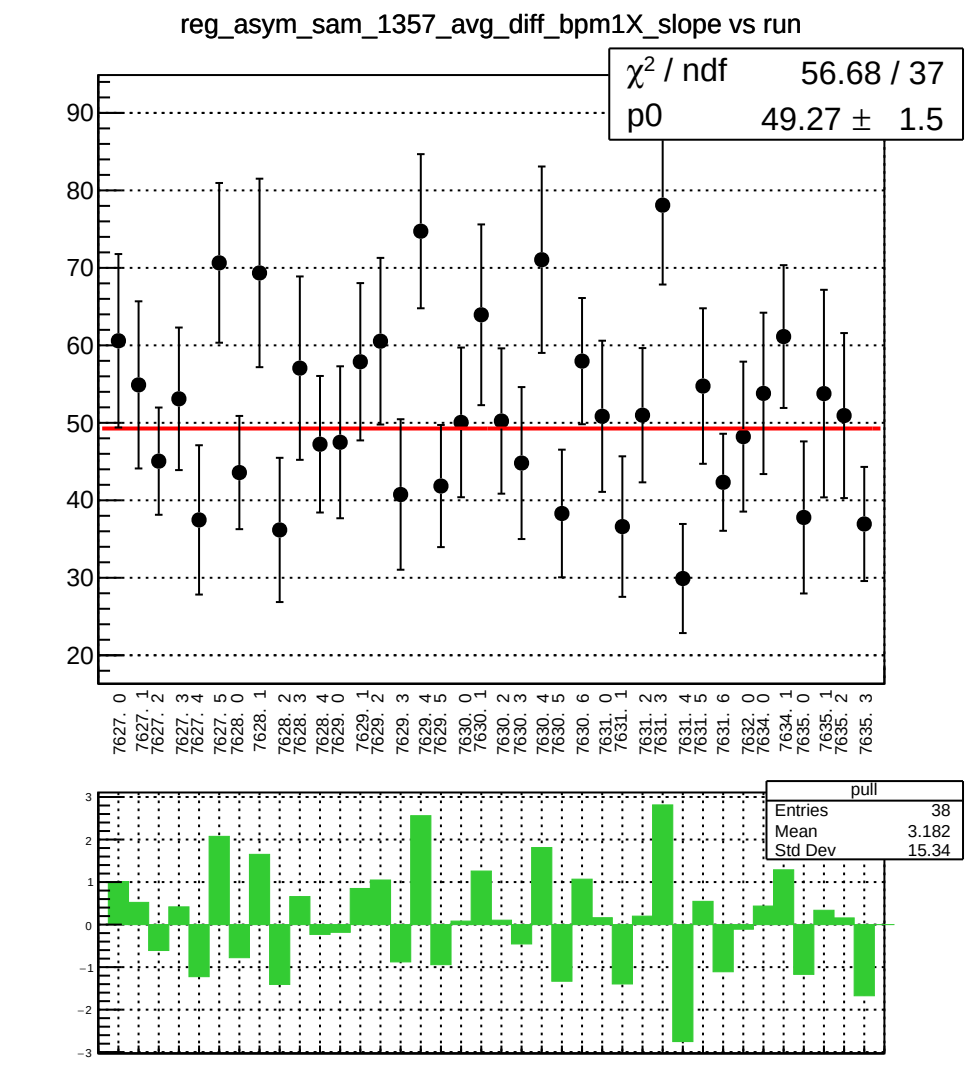

pull1D
Entries 38
Mean 0.1311
Std Dev 0.9974

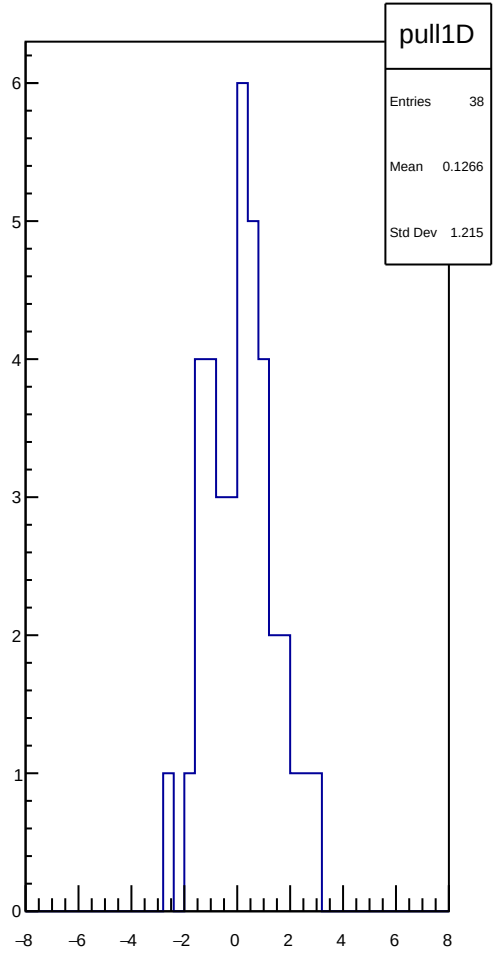

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 30.71 / 37
p0 22.17 ± 1.581
pull
Entries 38
Mean −29.8
Std Dev 53.96

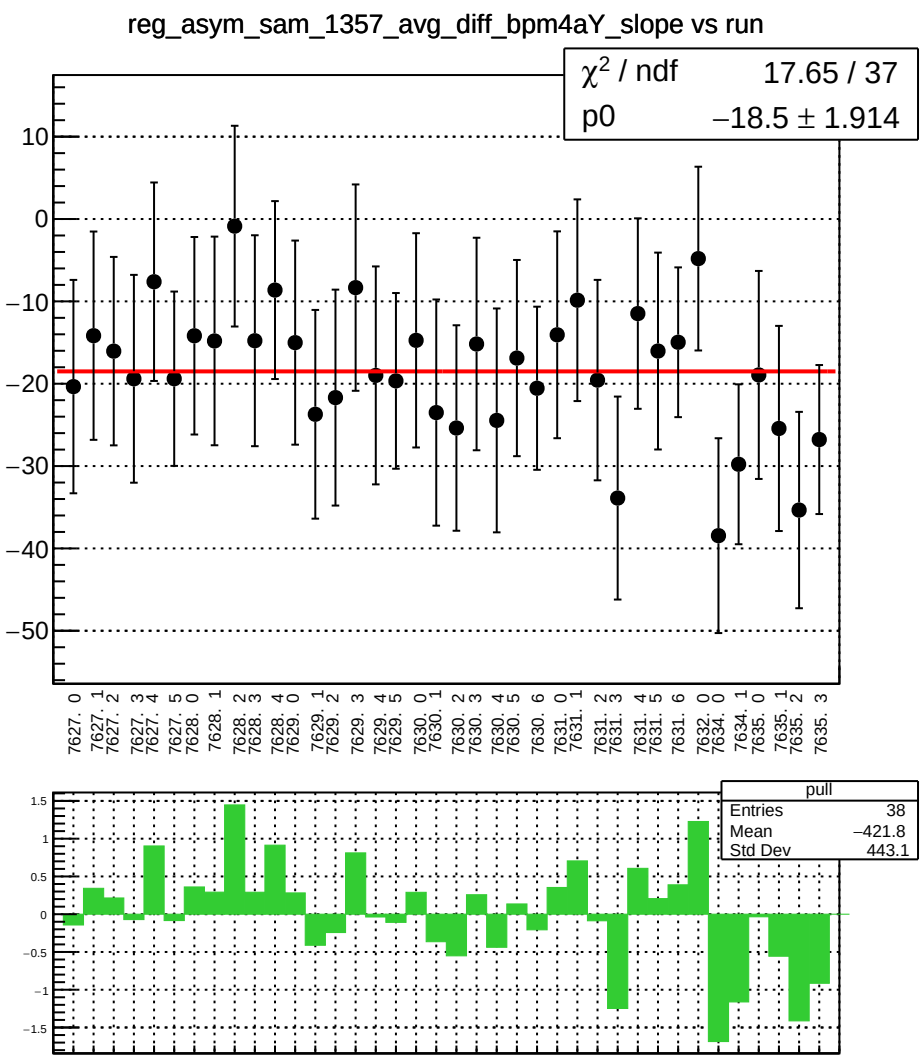

pull1D
Entries 38
Mean −0.0565
Std Dev 0.8973

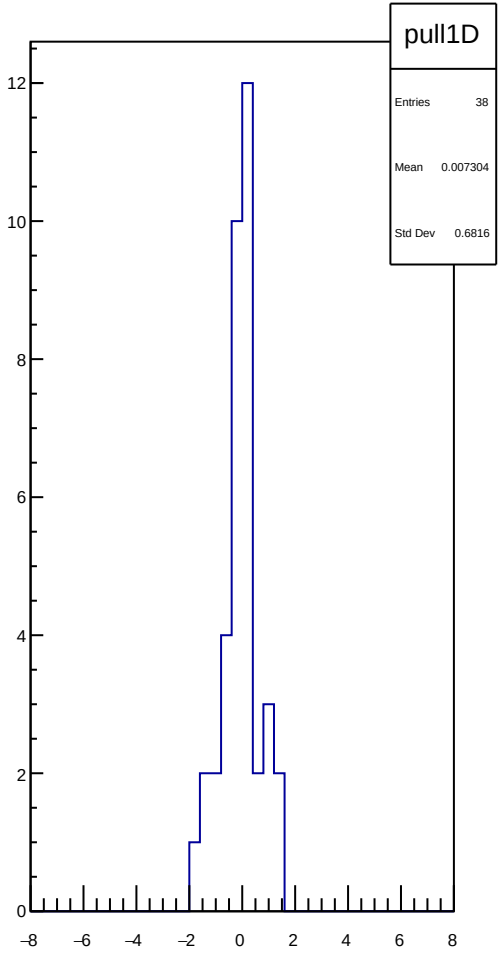

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 25.3 / 37
p0 −1.618 ± 0.1074
pull
Entries 38
Mean −3.653
Std Dev 21.54

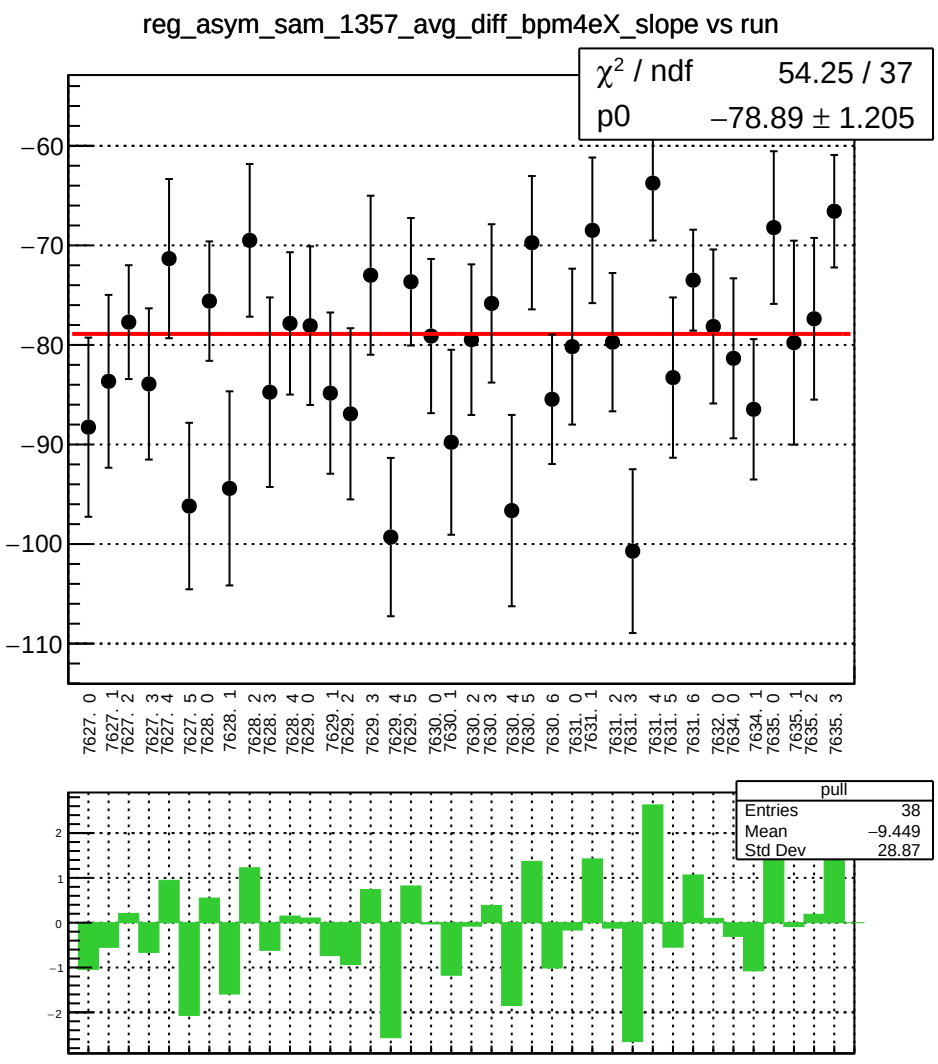

pull1D
Entries 38
Mean −0.1213
Std Dev 0.8069

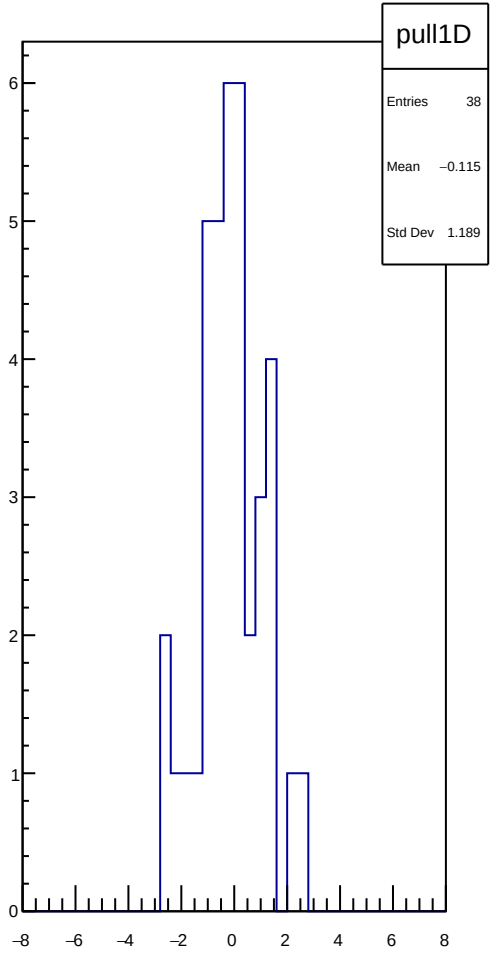

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 56.68 / 37
p0 49.27 ± 1.5
90
80
70
60
50
40
30
20
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 4
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 3.182
Std Dev 15.34
3
2
1
0
−1
−2
−3

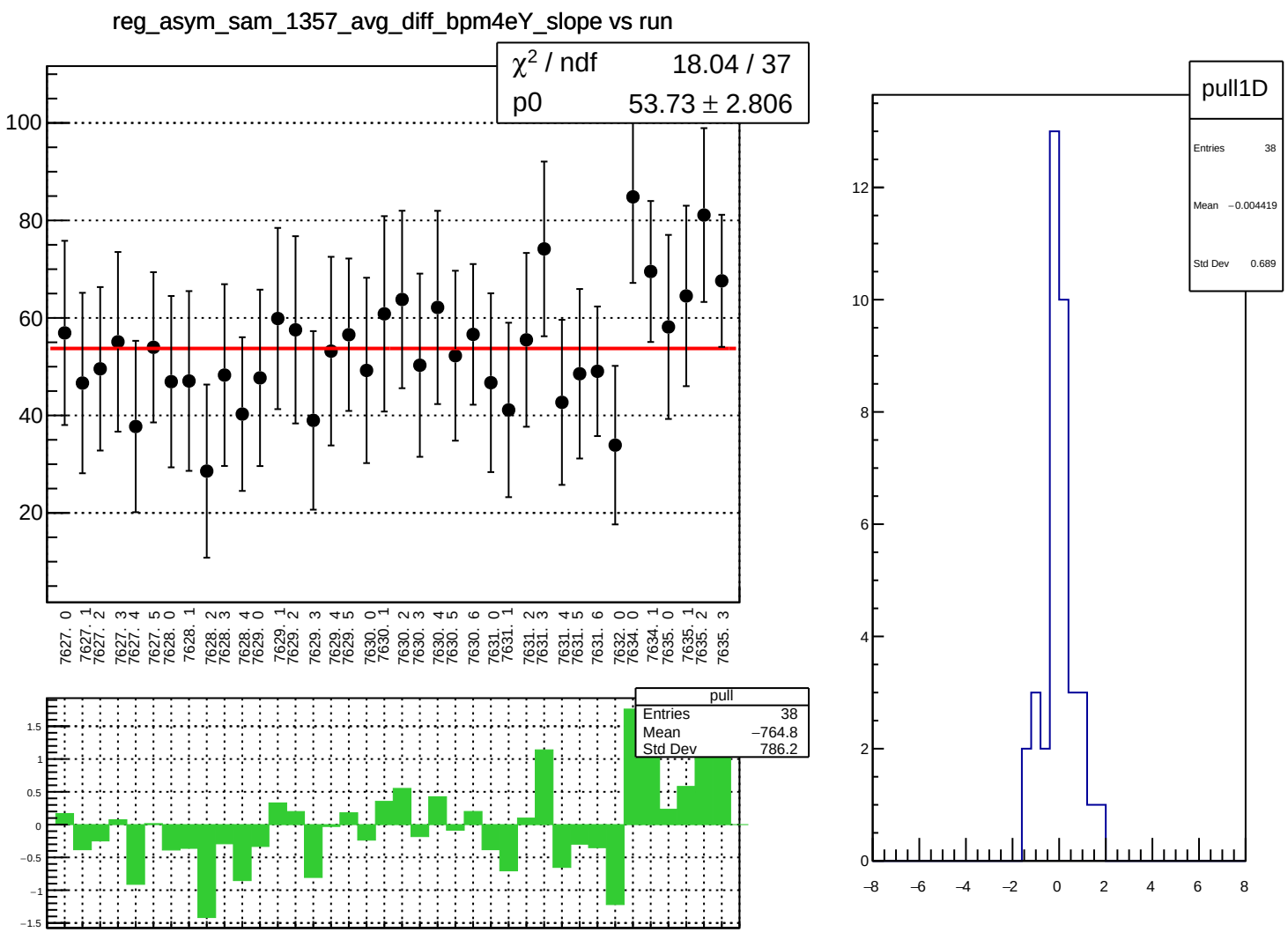

pull1D
Entries 38
Mean 0.1266
Std Dev 1.215
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

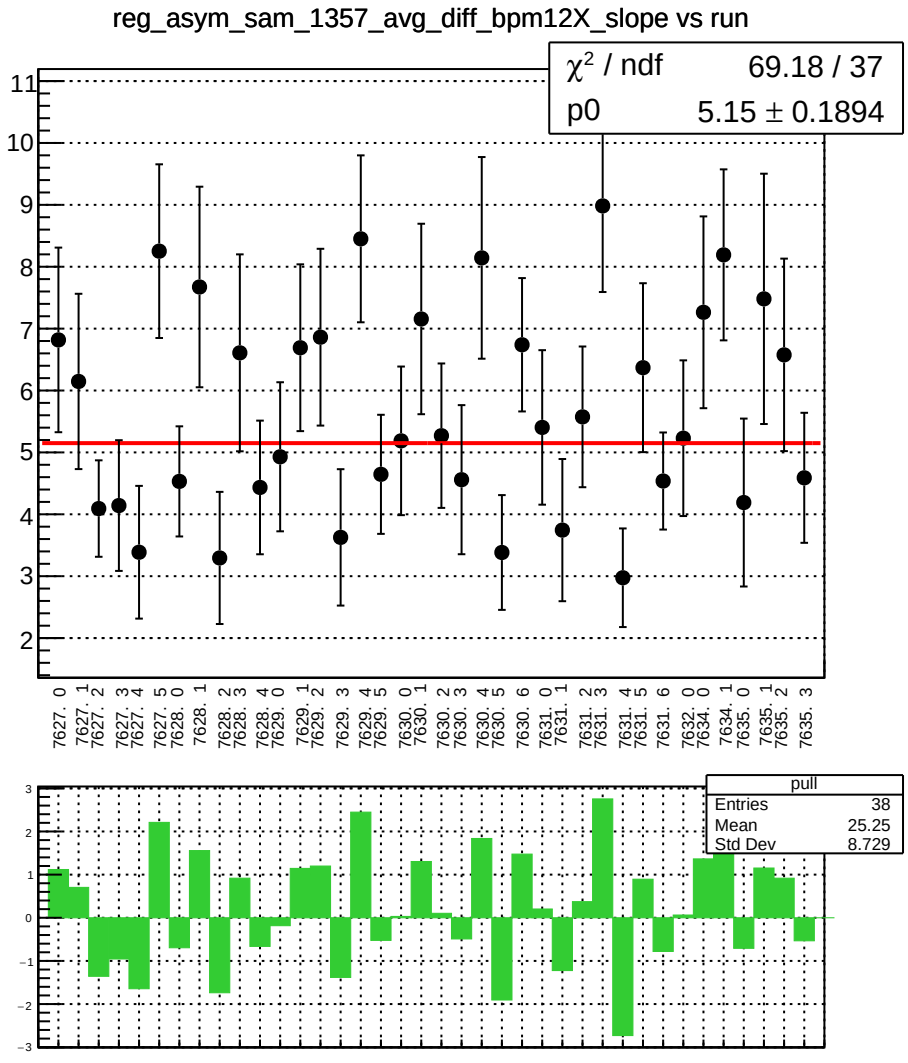

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 17.65 / 37
p0 −18.5 ± 1.914
pull
Entries 38
Mean −421.8
Std Dev 443.1

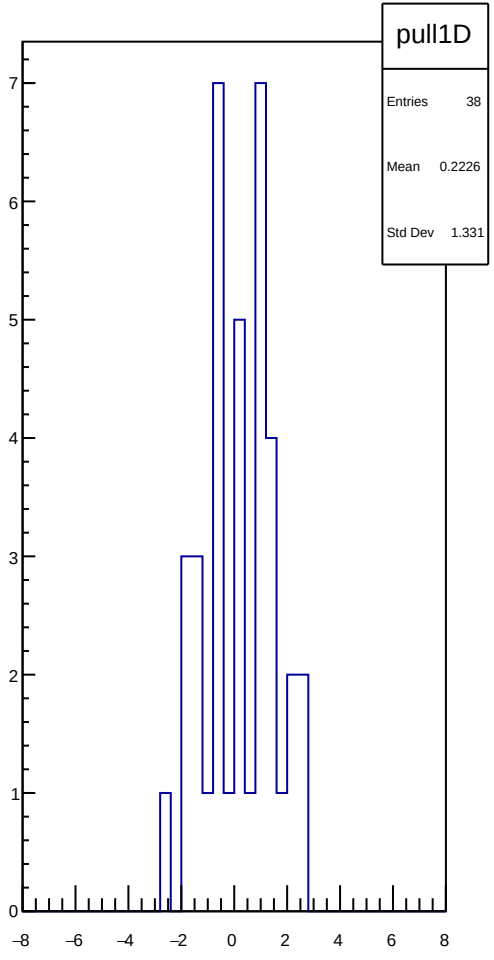

pull1D
Entries 38
Mean 0.007304
Std Dev 0.6816

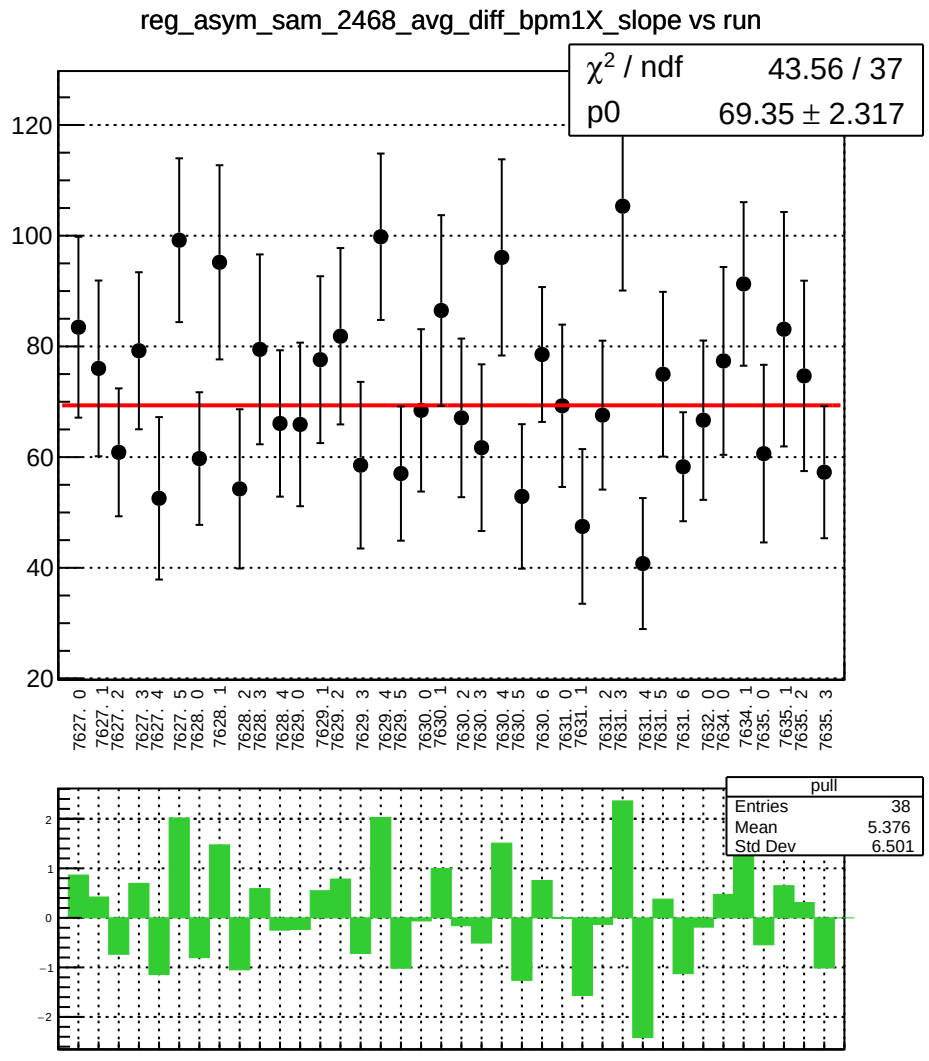

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 54.25 / 37
p0 −78.89 ± 1.205
pull
Entries 38
Mean −9.449
Std Dev 28.87

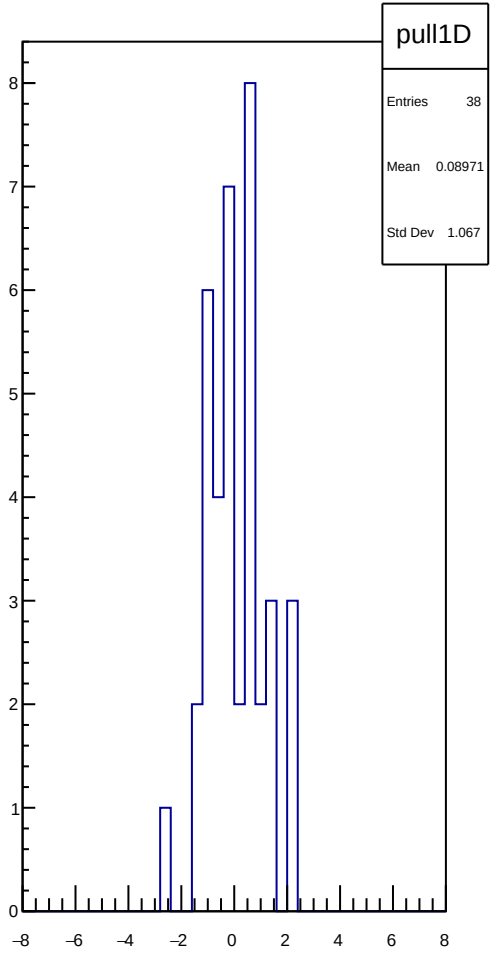

pull1D
Entries 38
Mean −0.115
Std Dev 1.189

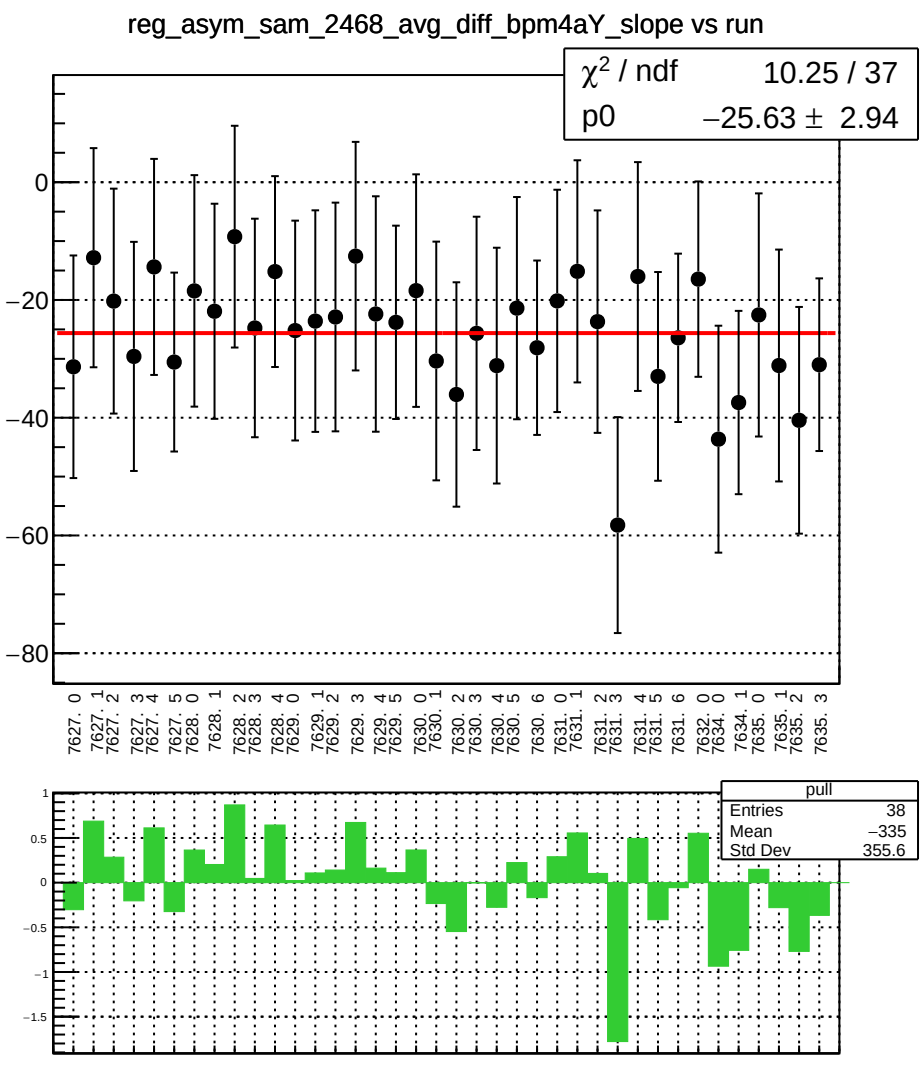

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 18.04 / 37
p0 53.73 ± 2.806
100
80
60
40
20
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −764.8
Std Dev 786.2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 38
Mean −0.004419
Std Dev 0.689
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

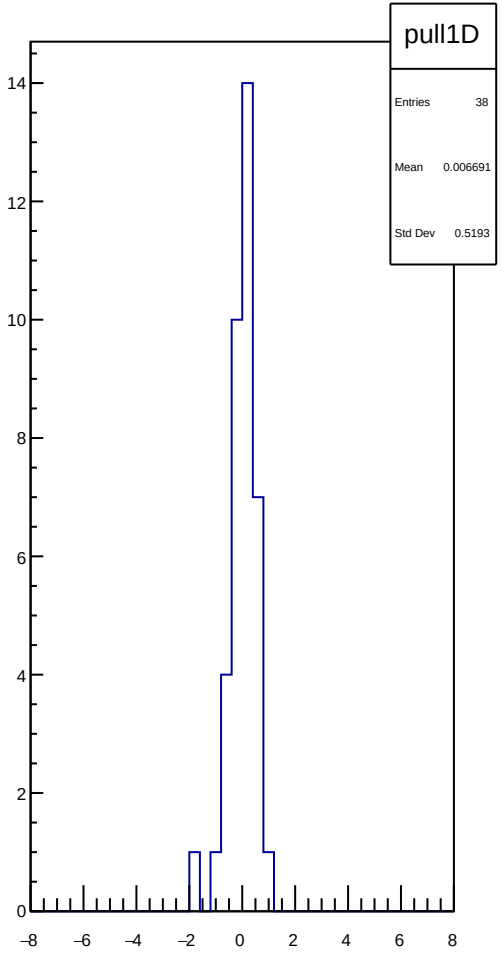

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 69.18 / 37
p0 5.15 ± 0.1894
pull
Entries 38
Mean 25.25
Std Dev 8.729

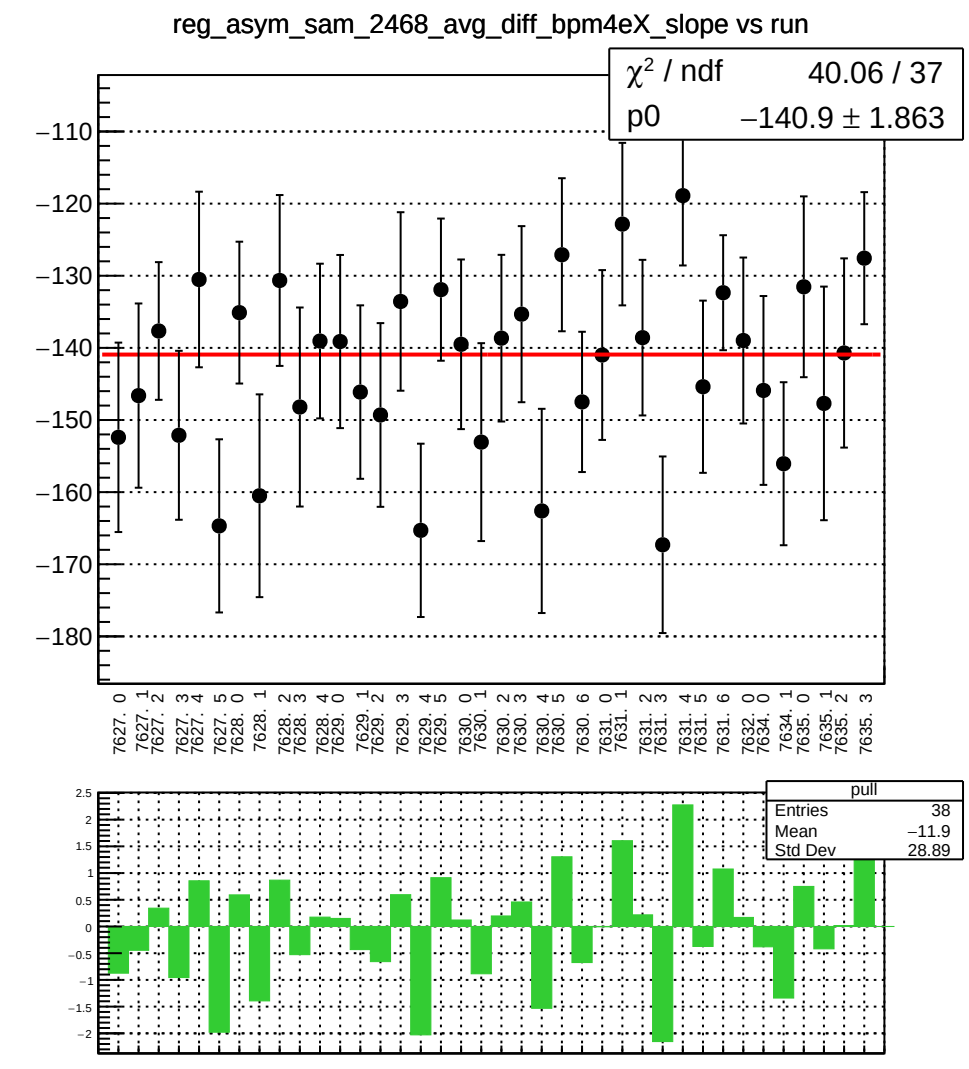

pull1D
Entries 38
Mean 0.2226
Std Dev 1.331

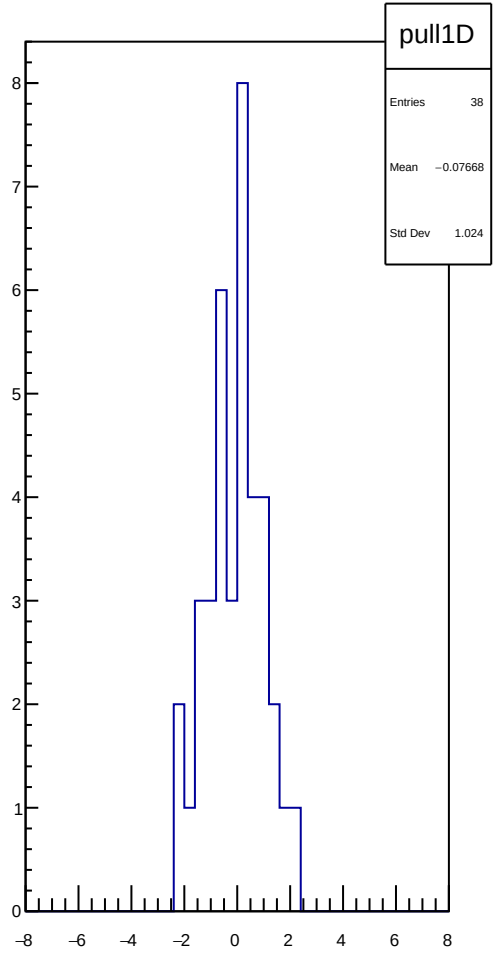

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 43.56 / 37
p0 69.35 ± 2.317
pull
Entries 38
Mean 5.376
Std Dev 6.501

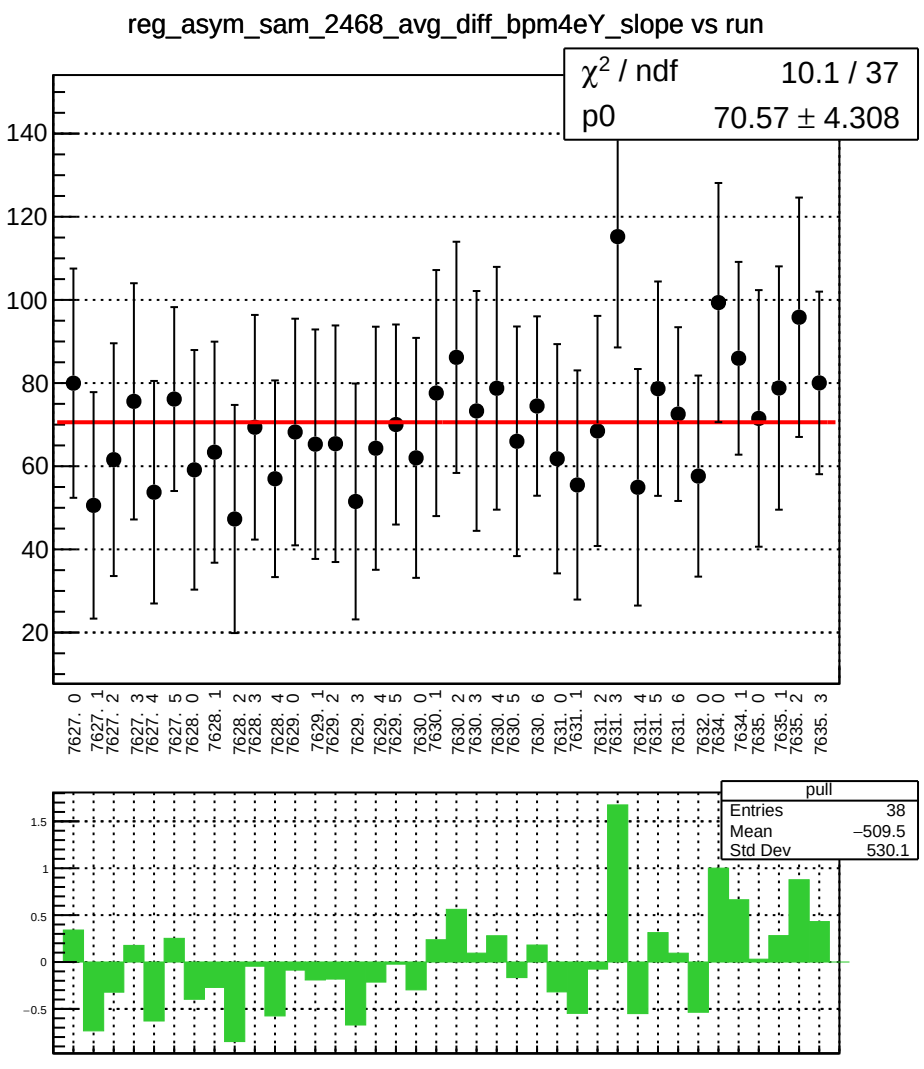

pull1D
Entries 38
Mean 0.08971
Std Dev 1.067

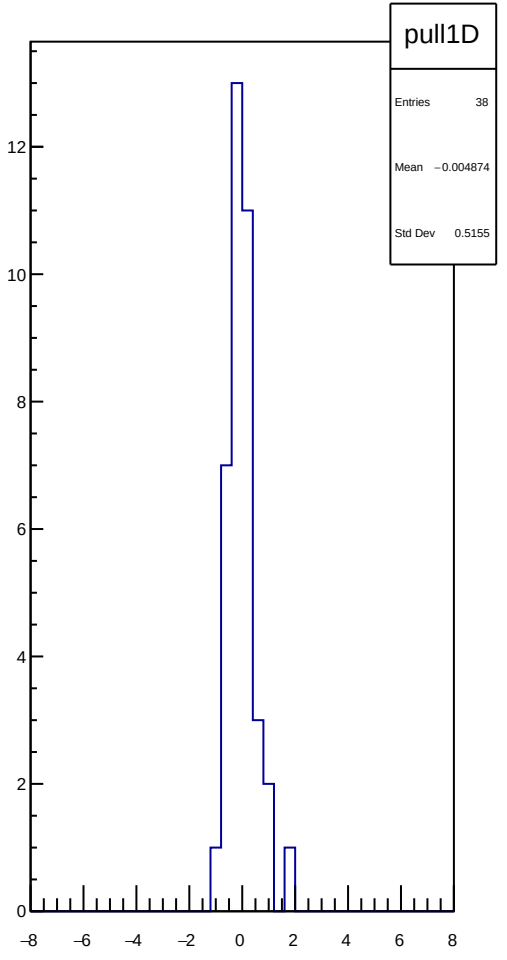

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 10.25 / 37
p0 −25.63 ± 2.94
0
−20
−40
−60
−80
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 4
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −335
Std Dev 355.6
1
0.5
0
−0.5
−1
−1.5

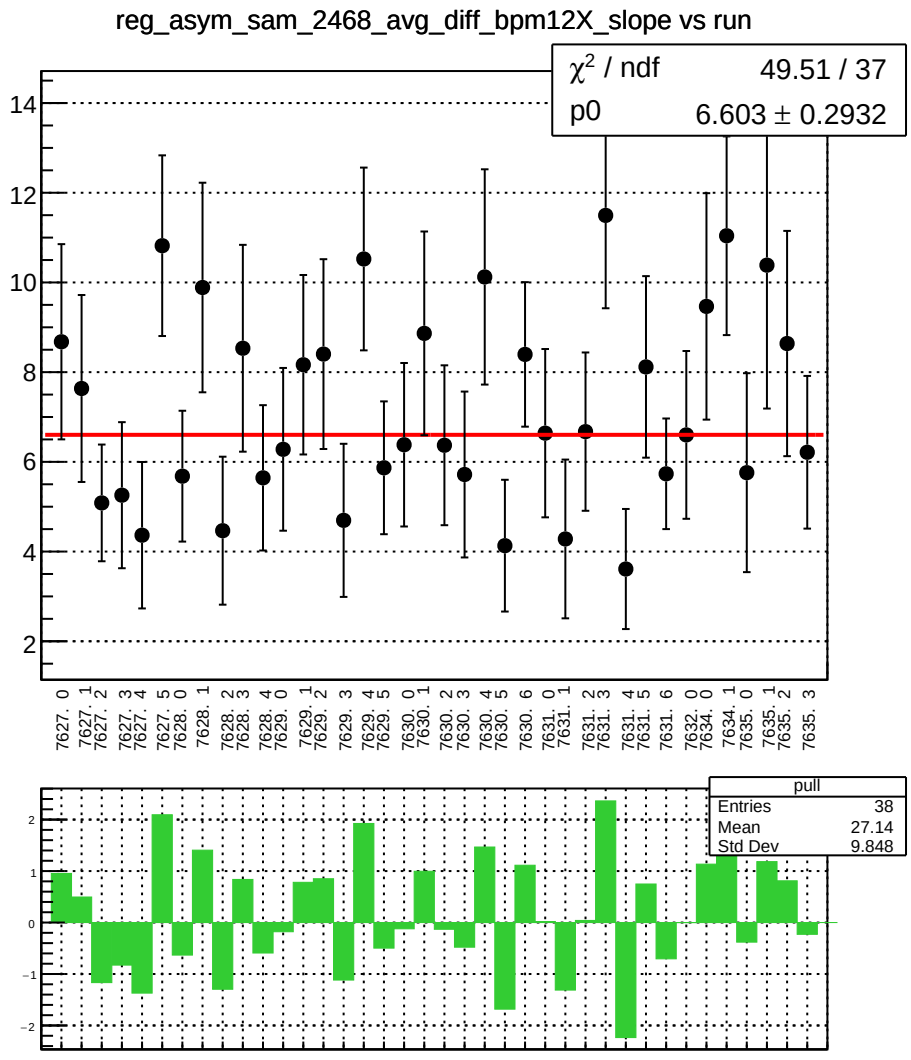

pull1D
Entries 38
Mean 0.006691
Std Dev 0.5193
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

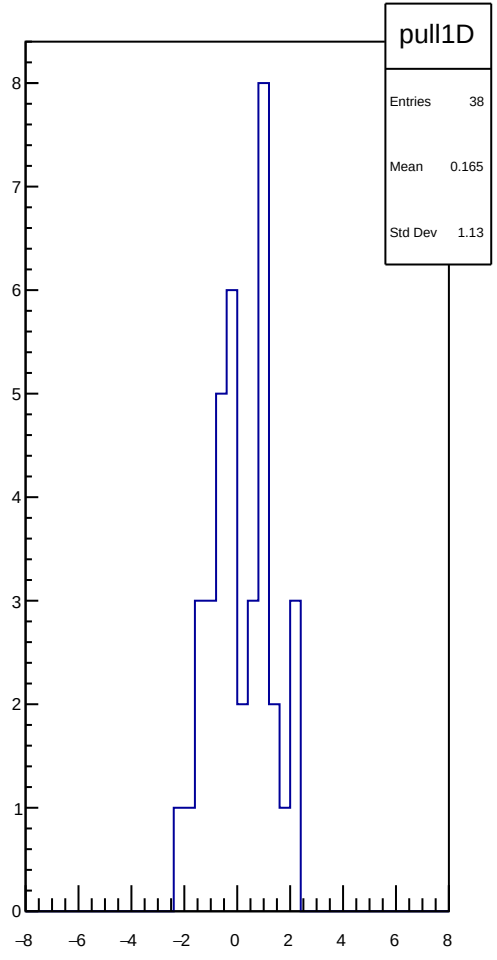

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 40.06 / 37
p0 −140.9 ± 1.863
−110
−120
−130
−140
−150
−160
−170
−180
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −11.9
Std Dev 28.89
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

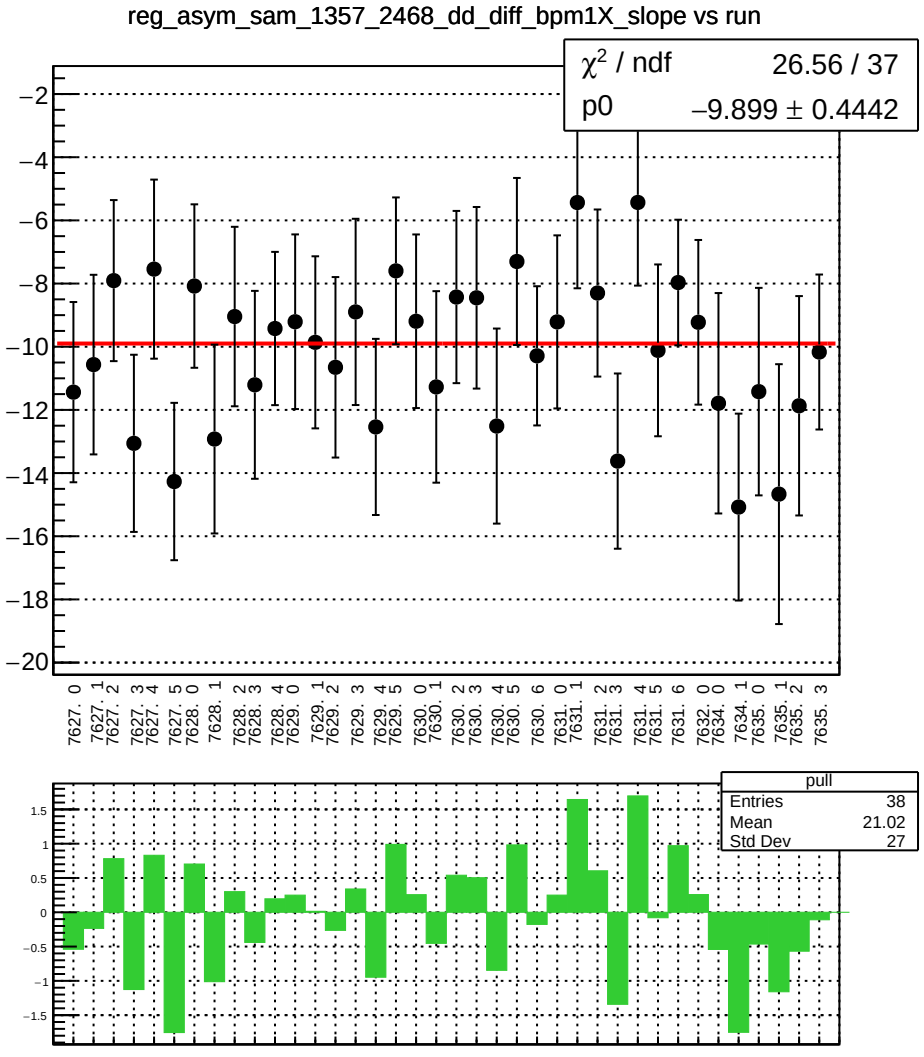

pull1D
Entries 38
Mean −0.07668
Std Dev 1.024
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

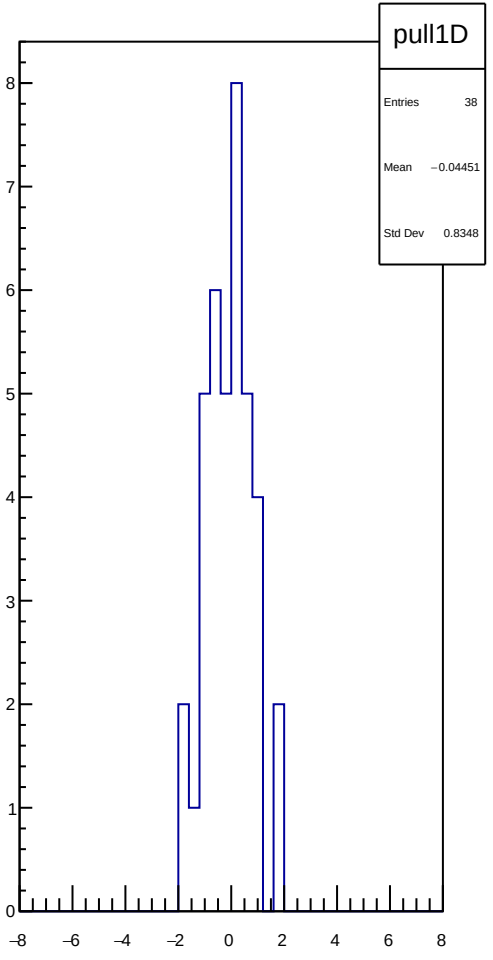

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 10.1 / 37
p0 70.57 ± 4.308
140
120
100
80
60
40
20
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −509.5
Std Dev 530.1
1.5
1
0.5
0
−0.5

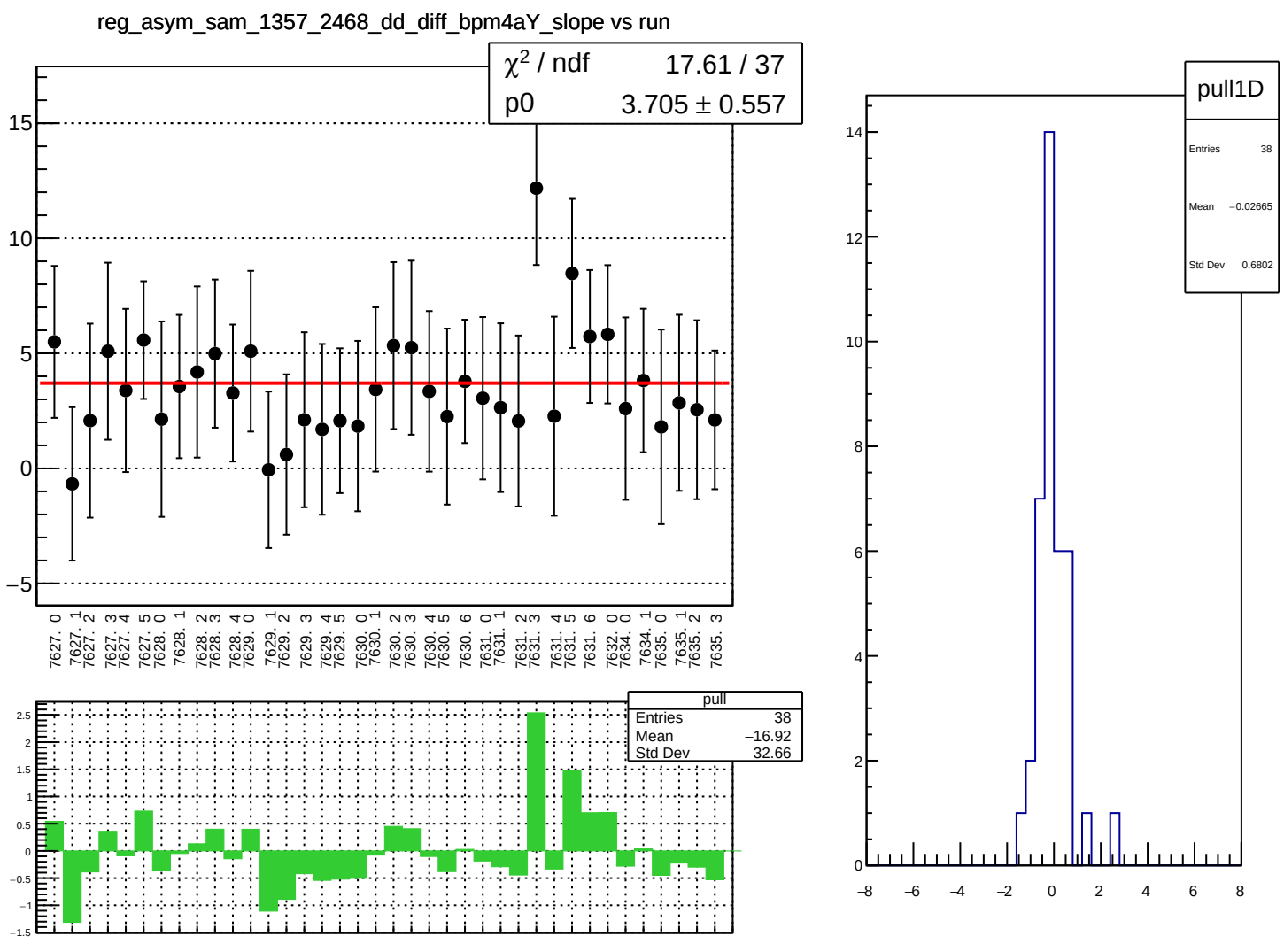

pull1D
Entries 38
Mean −0.004874
Std Dev 0.5155
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

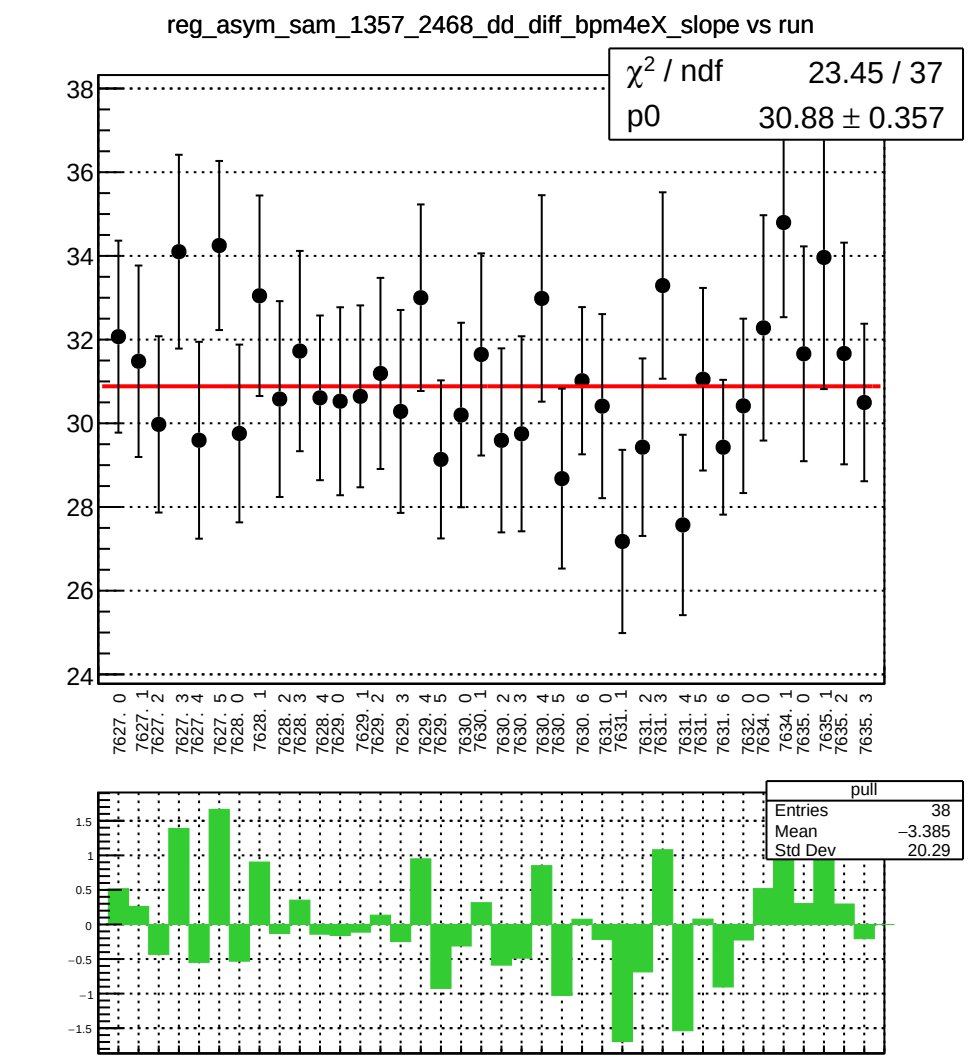

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 49.51 / 37
p0 6.603 ± 0.2932
pull
Entries 38
Mean 27.14
Std Dev 9.848

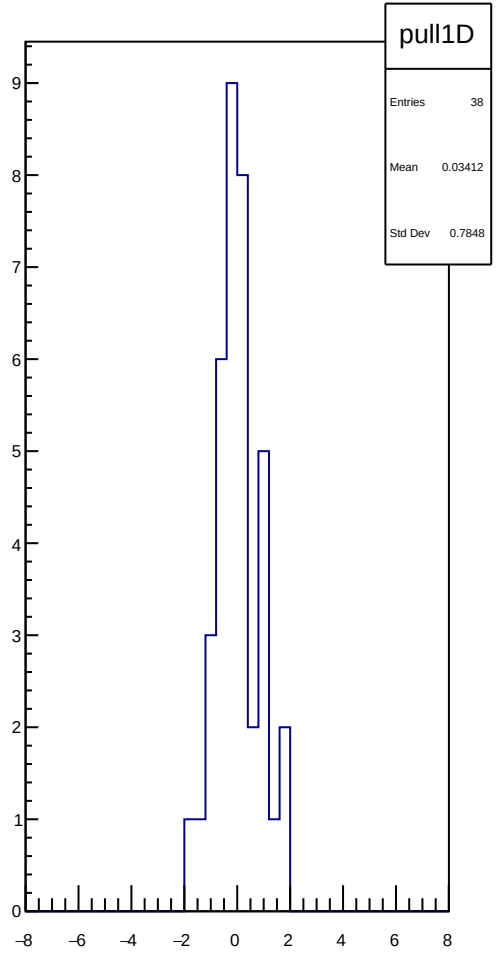

pull1D
Entries 38
Mean 0.165
Std Dev 1.13

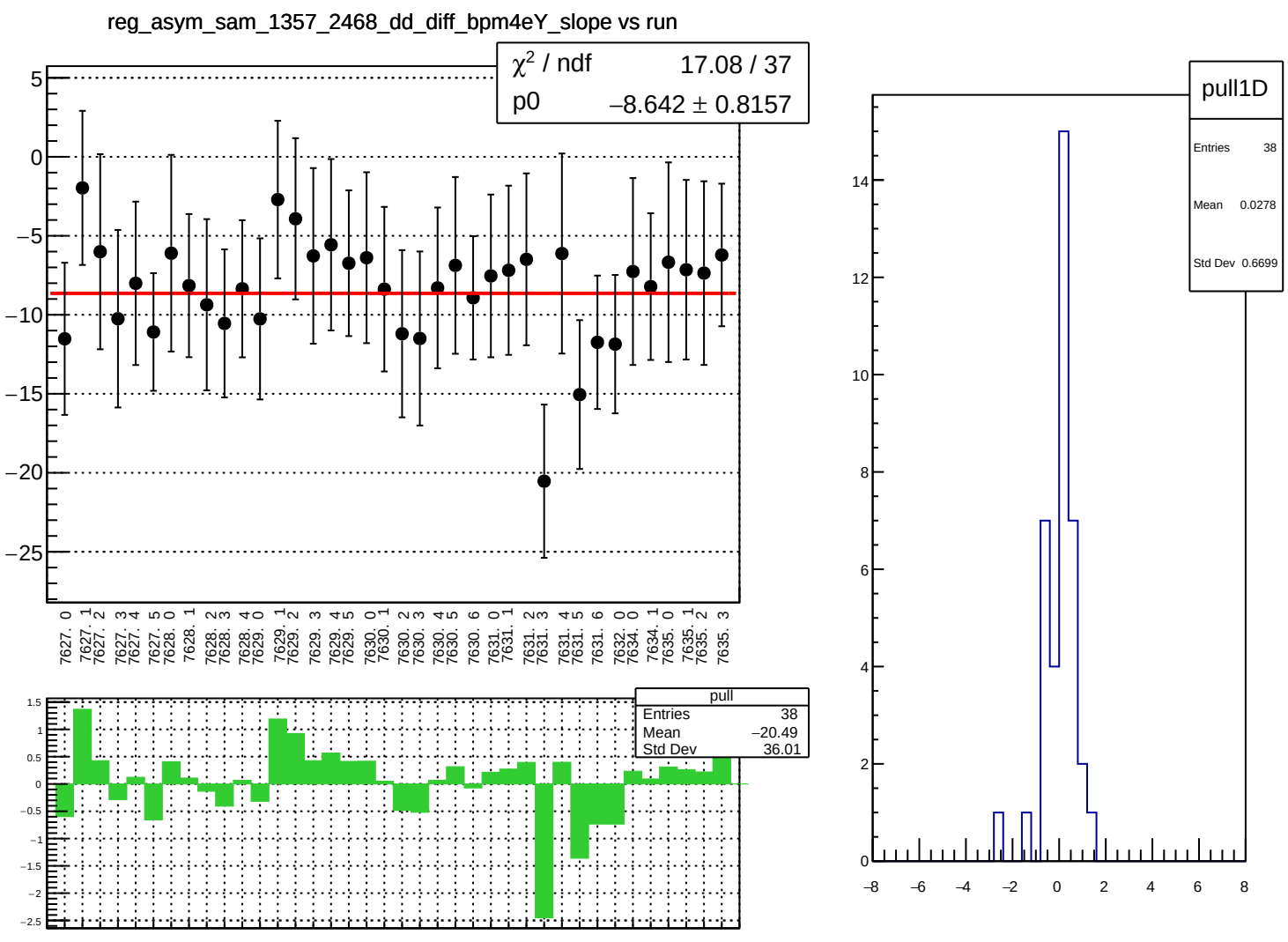

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 26.56 / 37
p0 −9.899 ± 0.4442
pull
Entries 38
Mean 21.02
Std Dev 27

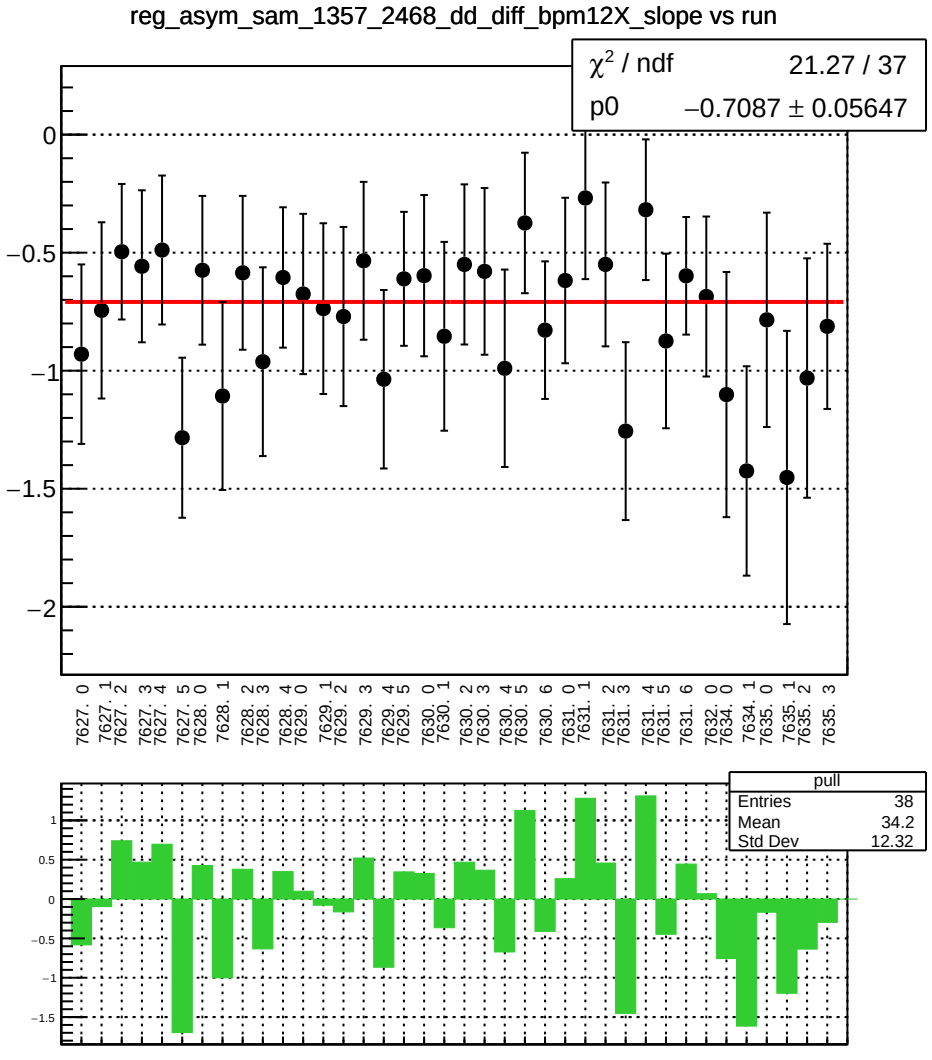

pull1D
Entries 38
Mean −0.04451
Std Dev 0.8348

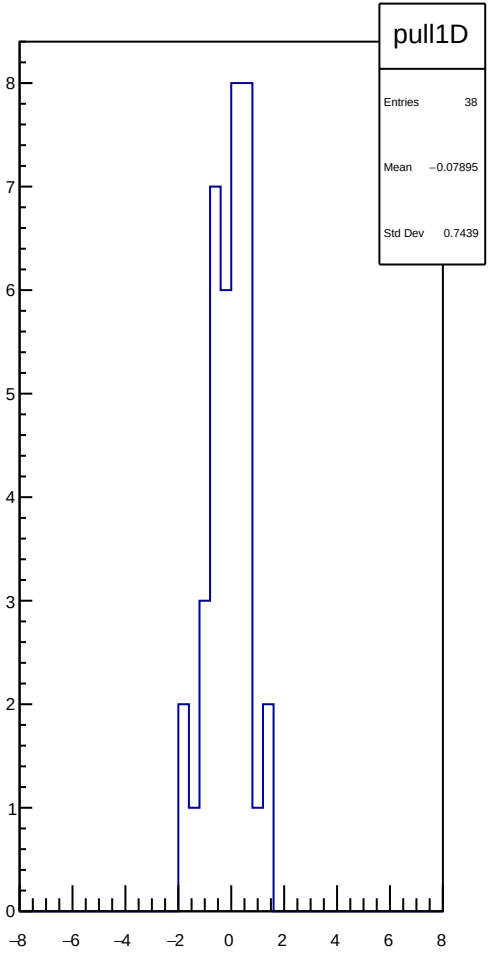

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 17.61 / 37
p0 3.705 ± 0.557
pull
Entries 38
Mean −16.92
Std Dev 32.66
pull1D
Entries 38
Mean −0.02665
Std Dev 0.6802

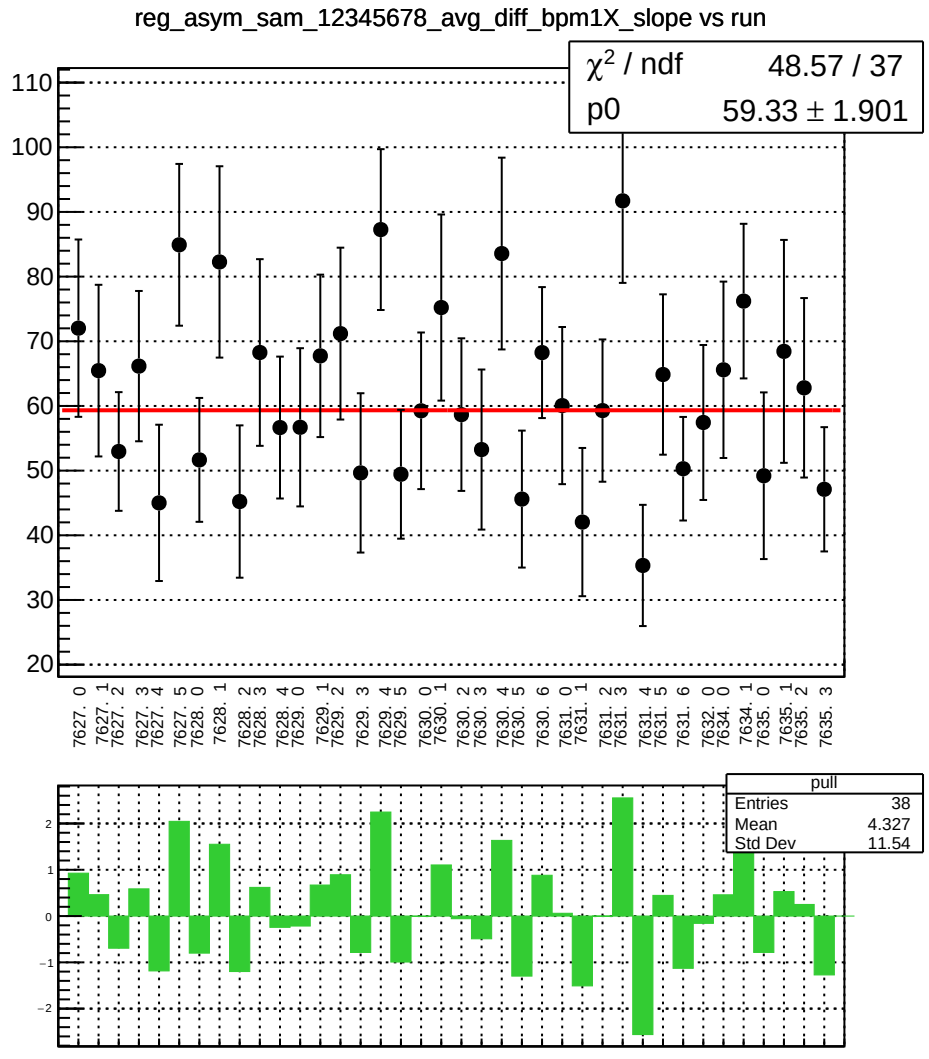

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 23.45 / 37
p0 30.88 ± 0.357
38
36
34
32
30
28
26
24
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −3.385
Std Dev 20.29
1.5
1
0.5
0
−0.5
−1
−1.5

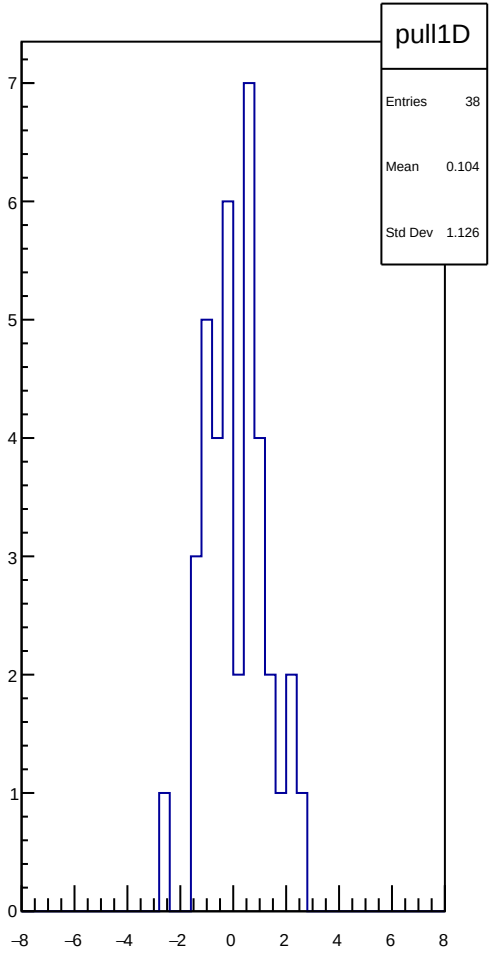

pull1D
Entries 38
Mean 0.03412
Std Dev 0.7848
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

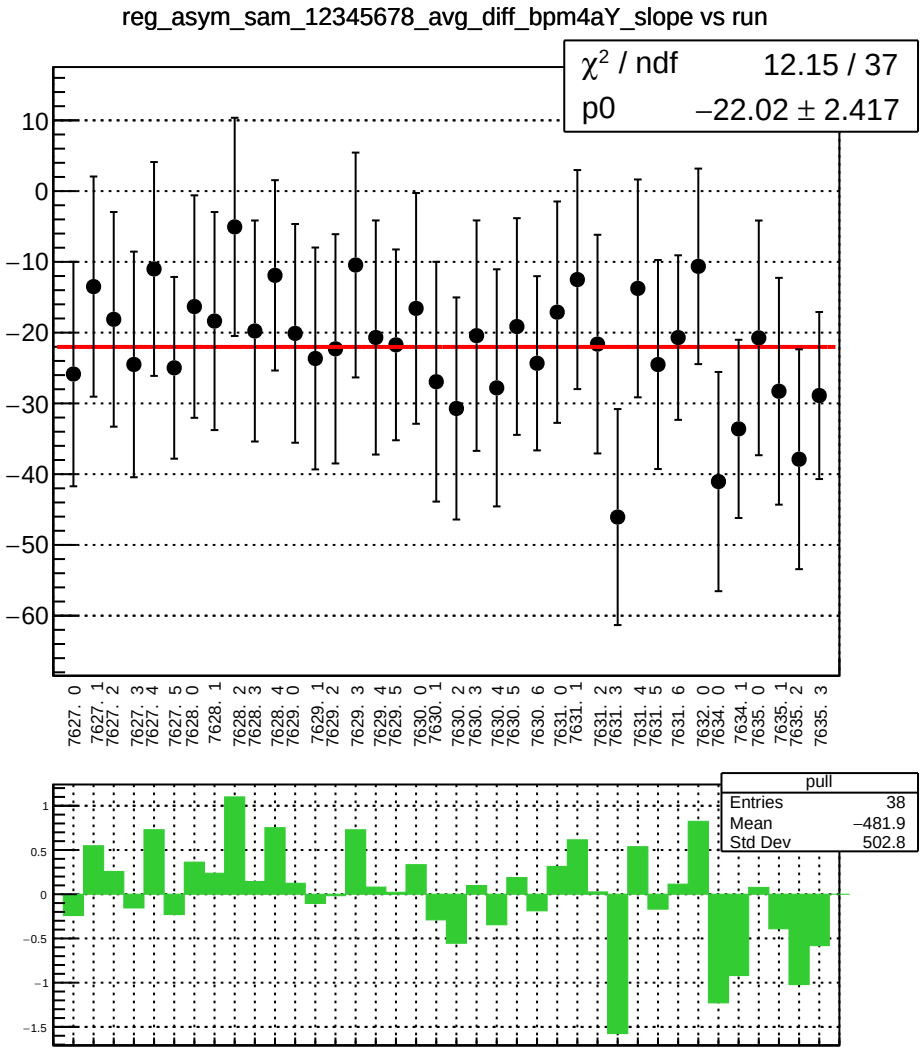

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 17.08 / 37
p0 −8.642 ± 0.8157
pull
Entries 38
Mean −20.49
Std Dev 36.01
pull1D
Entries 38
Mean 0.0278
Std Dev 0.6699

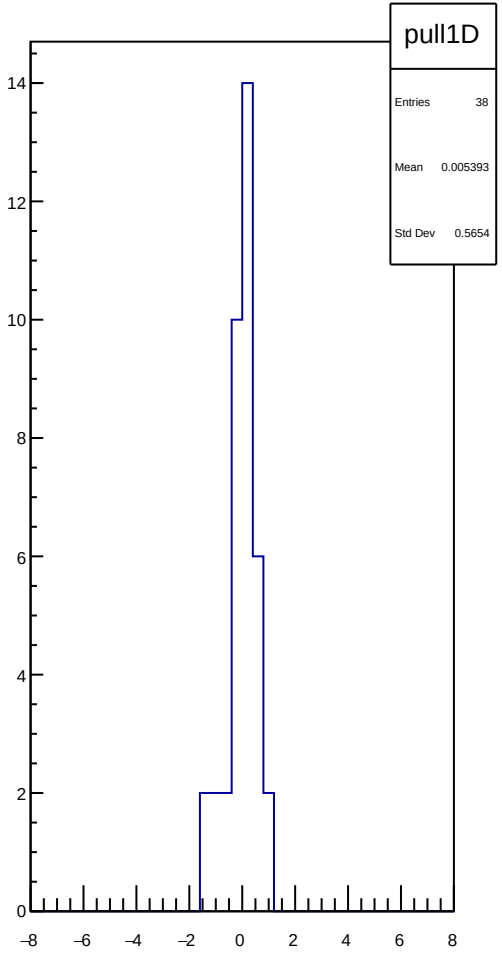

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 21.27 / 37
p0 −0.7087 ± 0.05647
pull
Entries 38
Mean 34.2
Std Dev 12.32

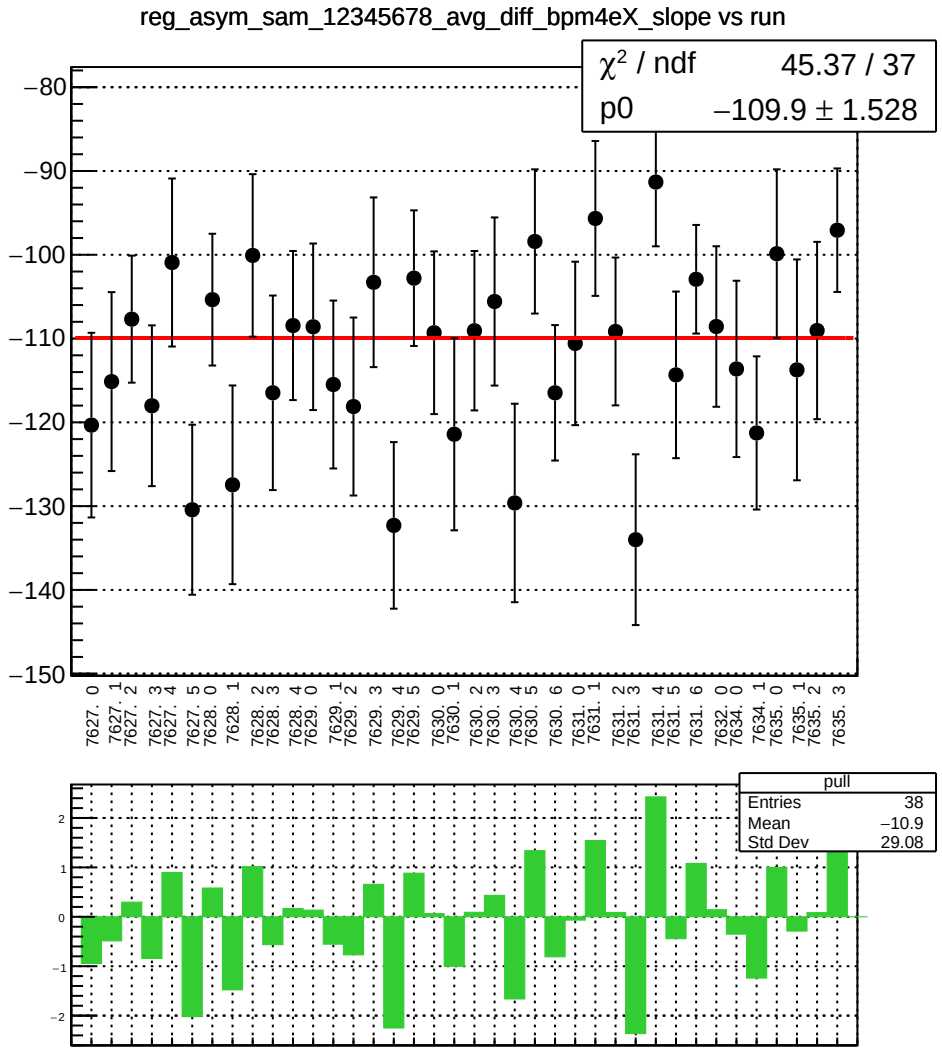

pull1D
Entries 38
Mean −0.07895
Std Dev 0.7439

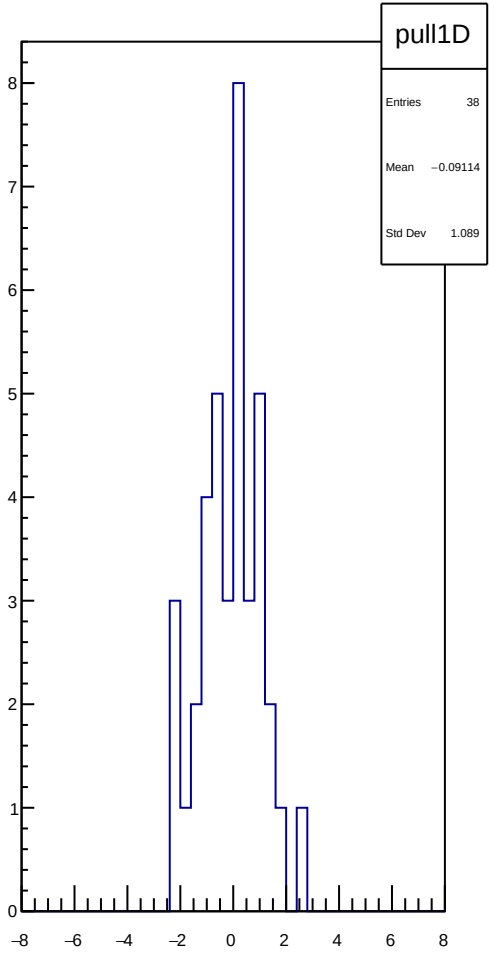

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 48.57 / 37
p0 59.33 ± 1.901
pull
Entries 38
Mean 4.327
Std Dev 11.54

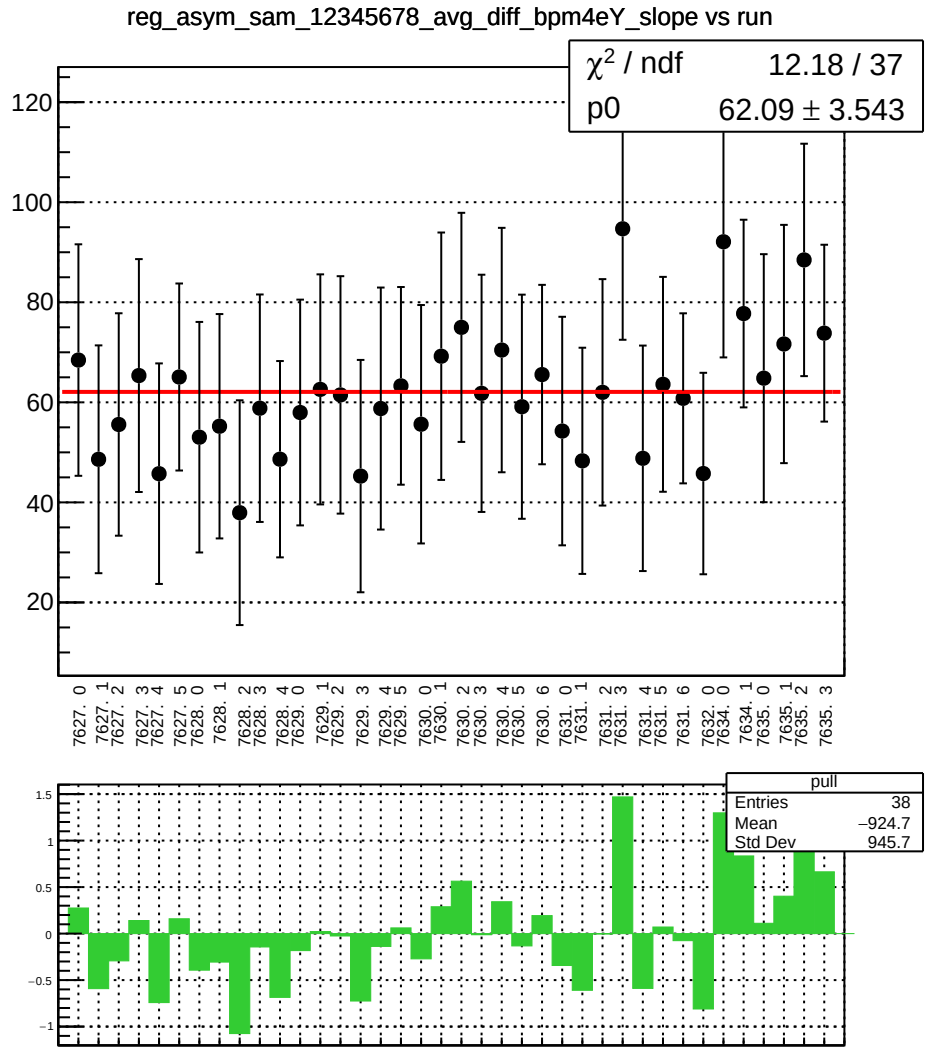

pull1D
Entries 38
Mean 0.104
Std Dev 1.126

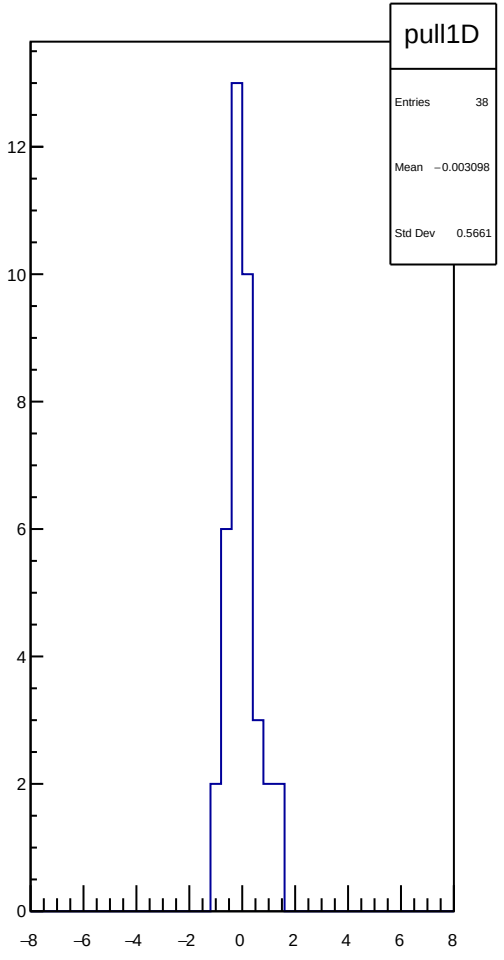

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 12.15 / 37
p0 −22.02 ± 2.417
pull
Entries 38
Mean −481.9
Std Dev 502.8

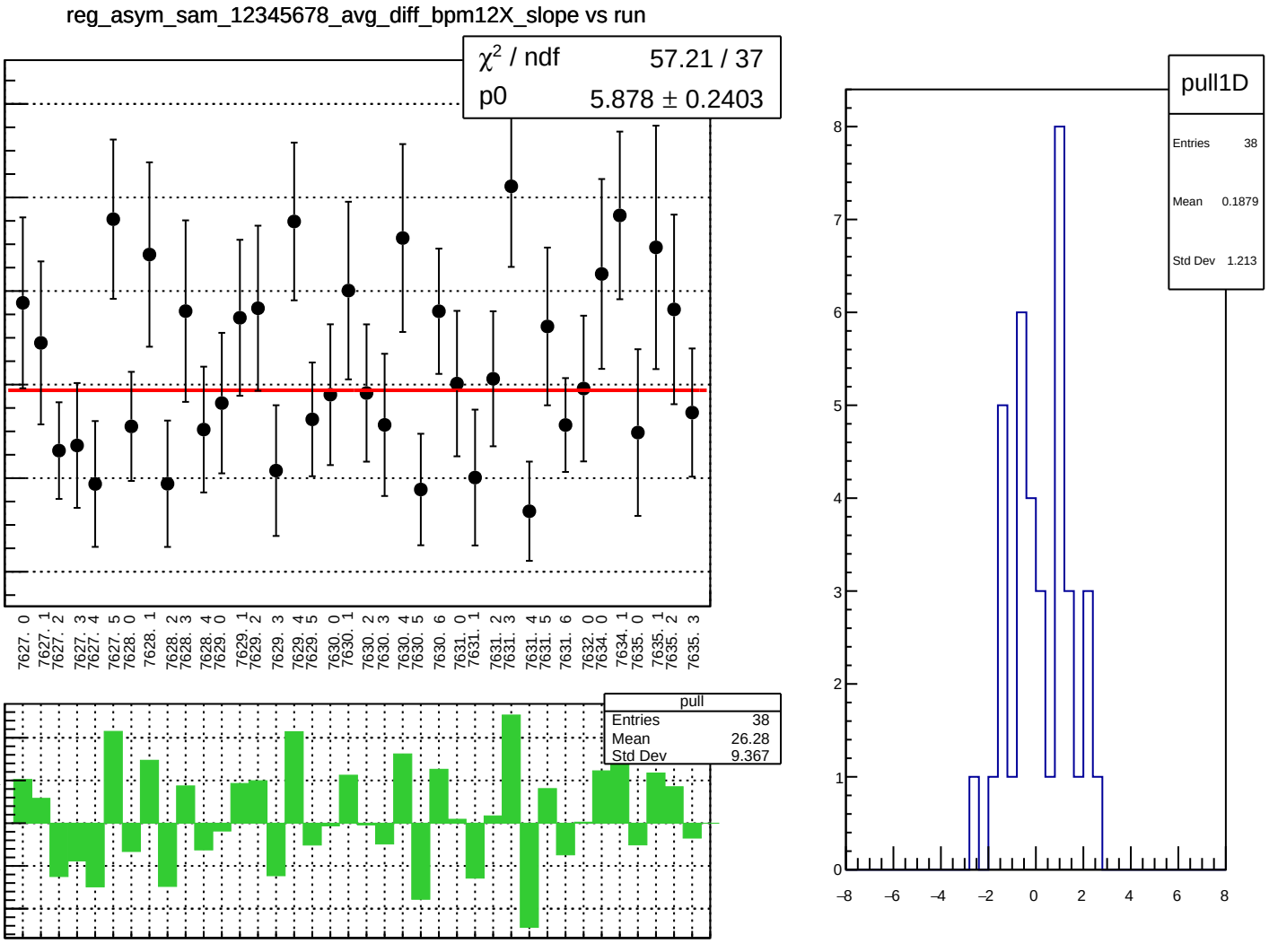

pull1D
Entries 38
Mean 0.005393
Std Dev 0.5654

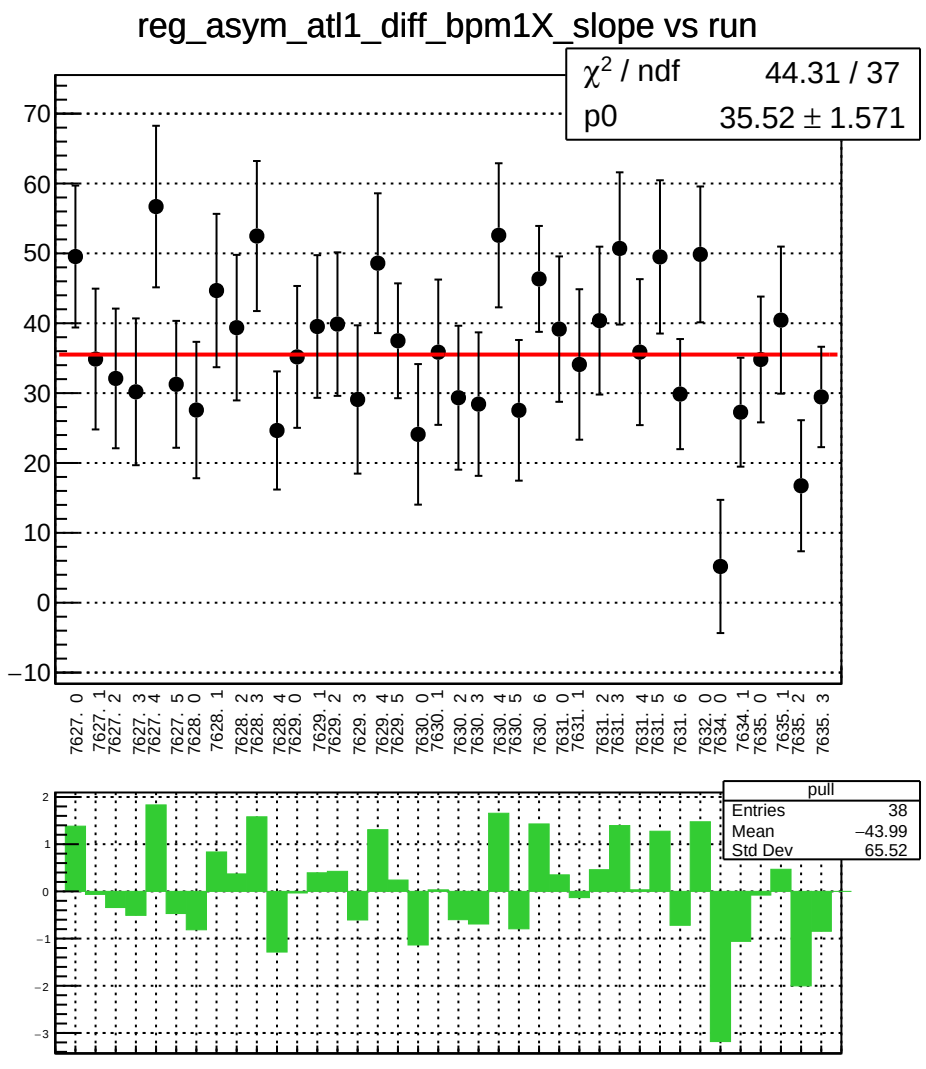

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 45.37 / 37
p0 −109.9 ± 1.528
pull
Entries 38
Mean −10.9
Std Dev 29.08

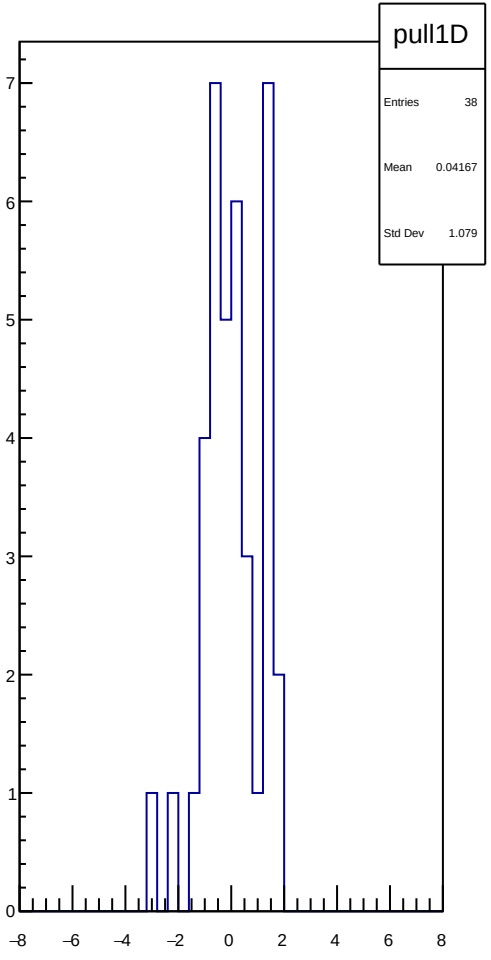

pull1D
Entries 38
Mean −0.09114
Std Dev 1.089

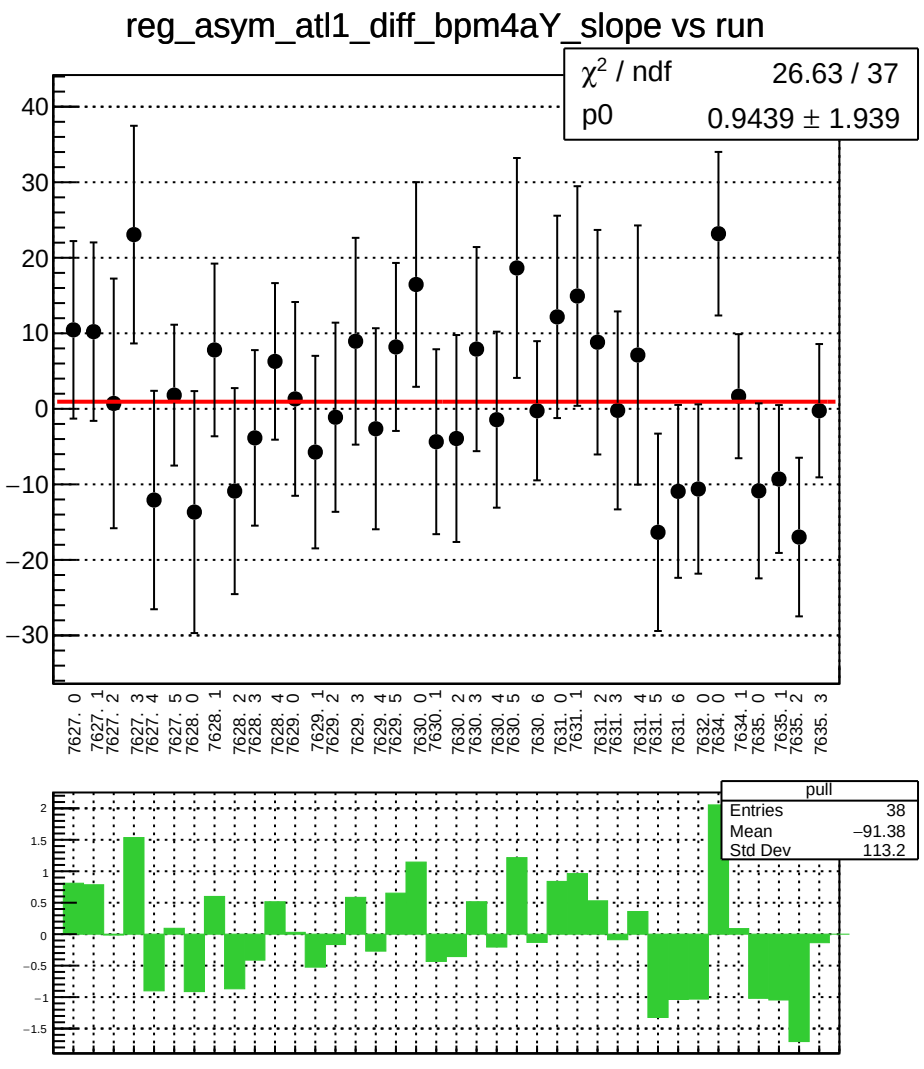

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 12.18 / 37
p0 62.09 ± 3.543
120
100
80
60
40
20
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −924.7
Std Dev 945.7
1.5
1
0.5
0
−0.5
−1

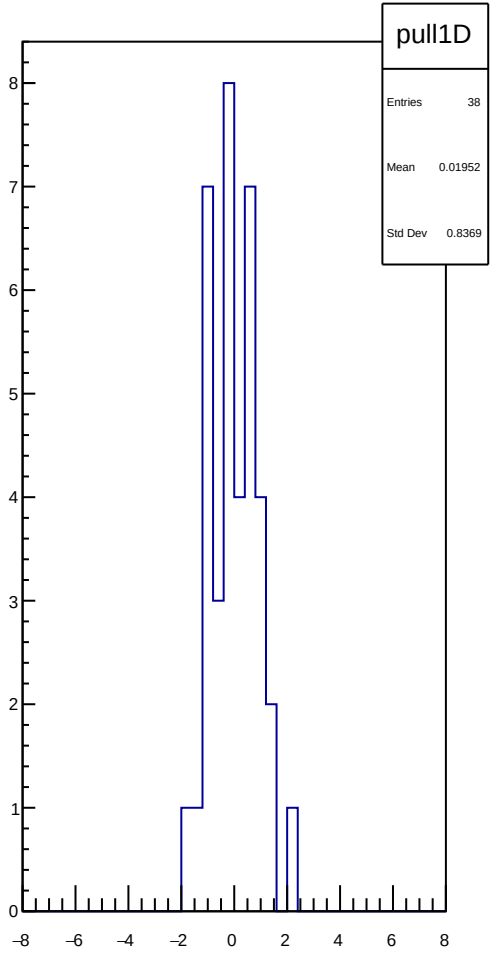

pull1D
Entries 38
Mean −0.003098
Std Dev 0.5661
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

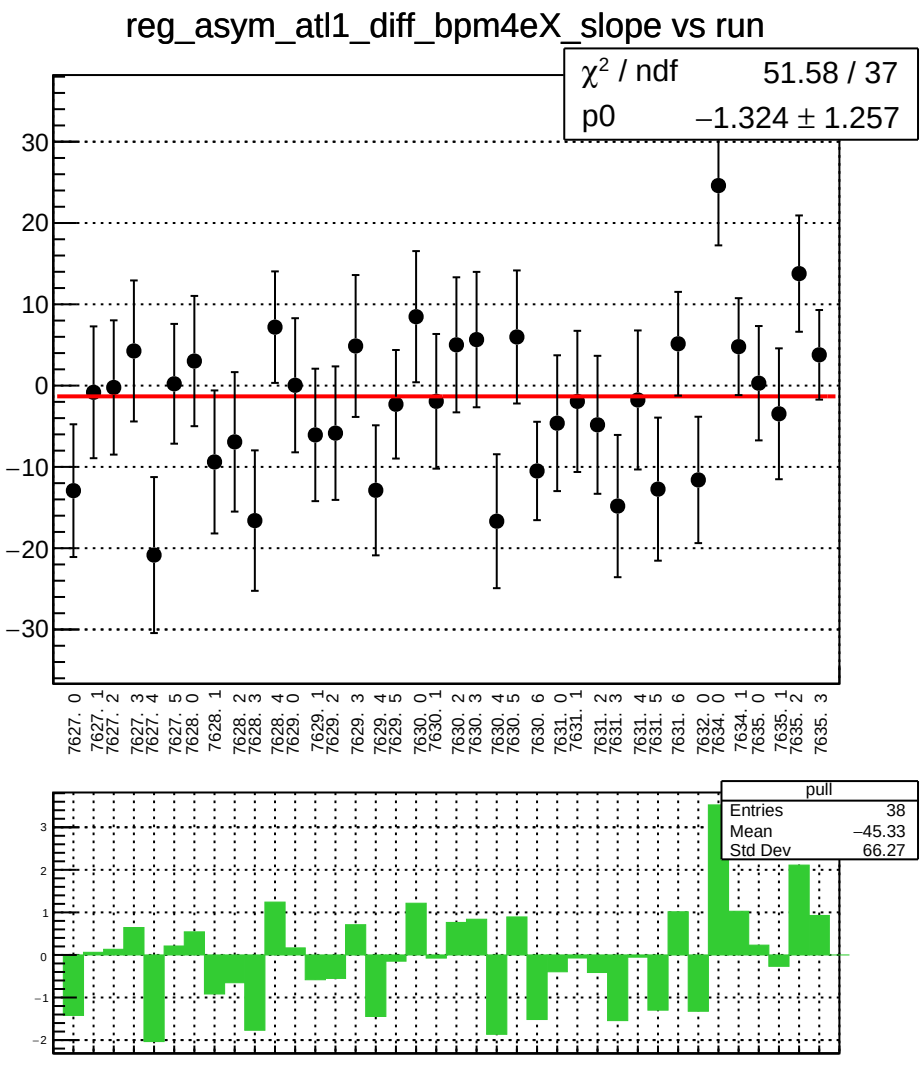

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 57.21 / 37
p0 5.878 ± 0.2403
12
10
8
6
4
2
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 26.28
Std Dev 9.367
2
1
0
−1
−2
pull1D
Entries 38
Mean 0.1879
Std Dev 1.213
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

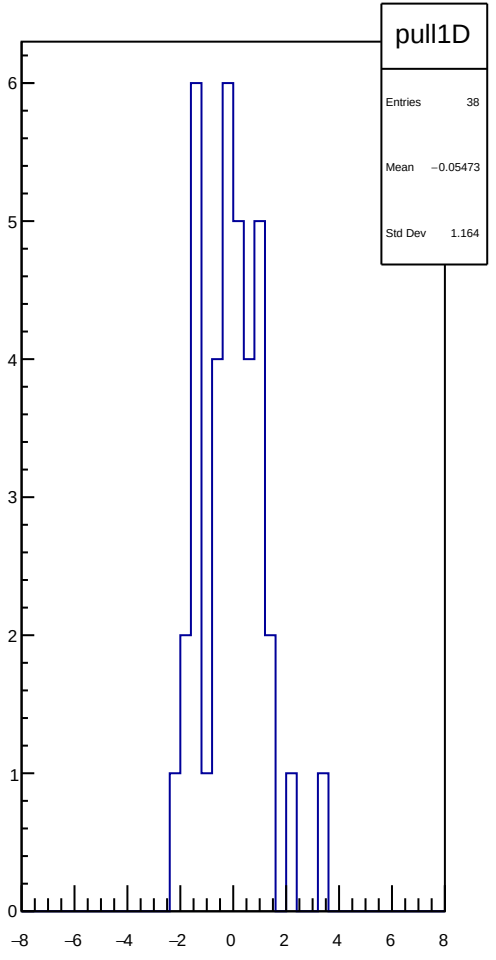

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 44.31 / 37
p0 35.52 ± 1.571
pull
Entries 38
Mean −43.99
Std Dev 65.52

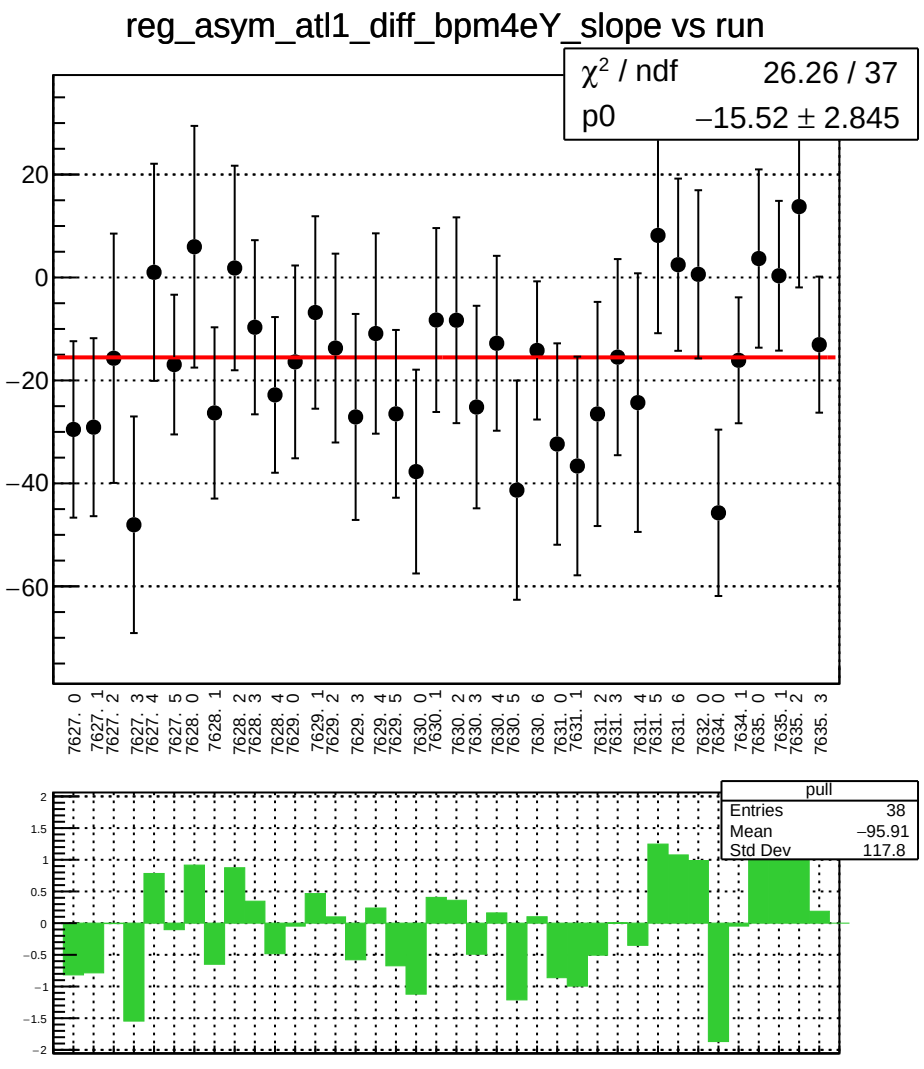

pull1D
Entries 38
Mean 0.04167
Std Dev 1.079

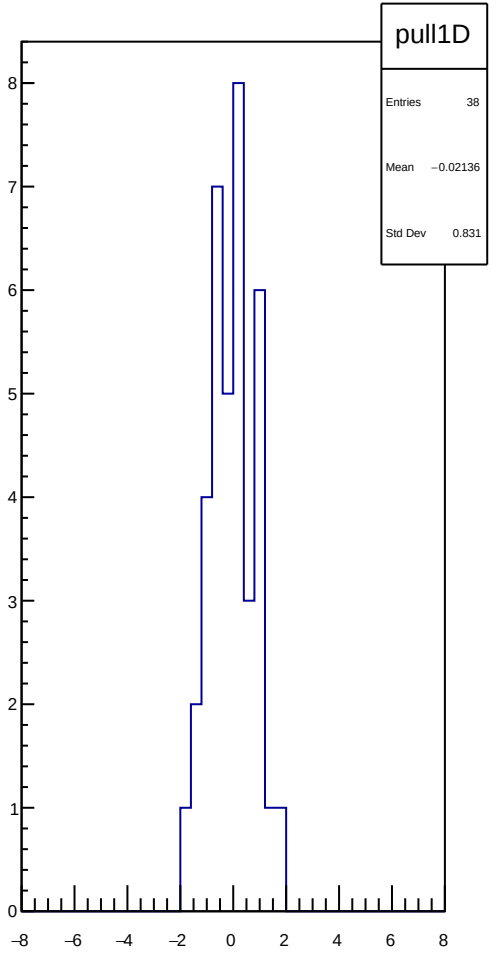

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 26.63 / 37
p0 0.9439 ± 1.939
pull
Entries 38
Mean −91.38
Std Dev 113.2

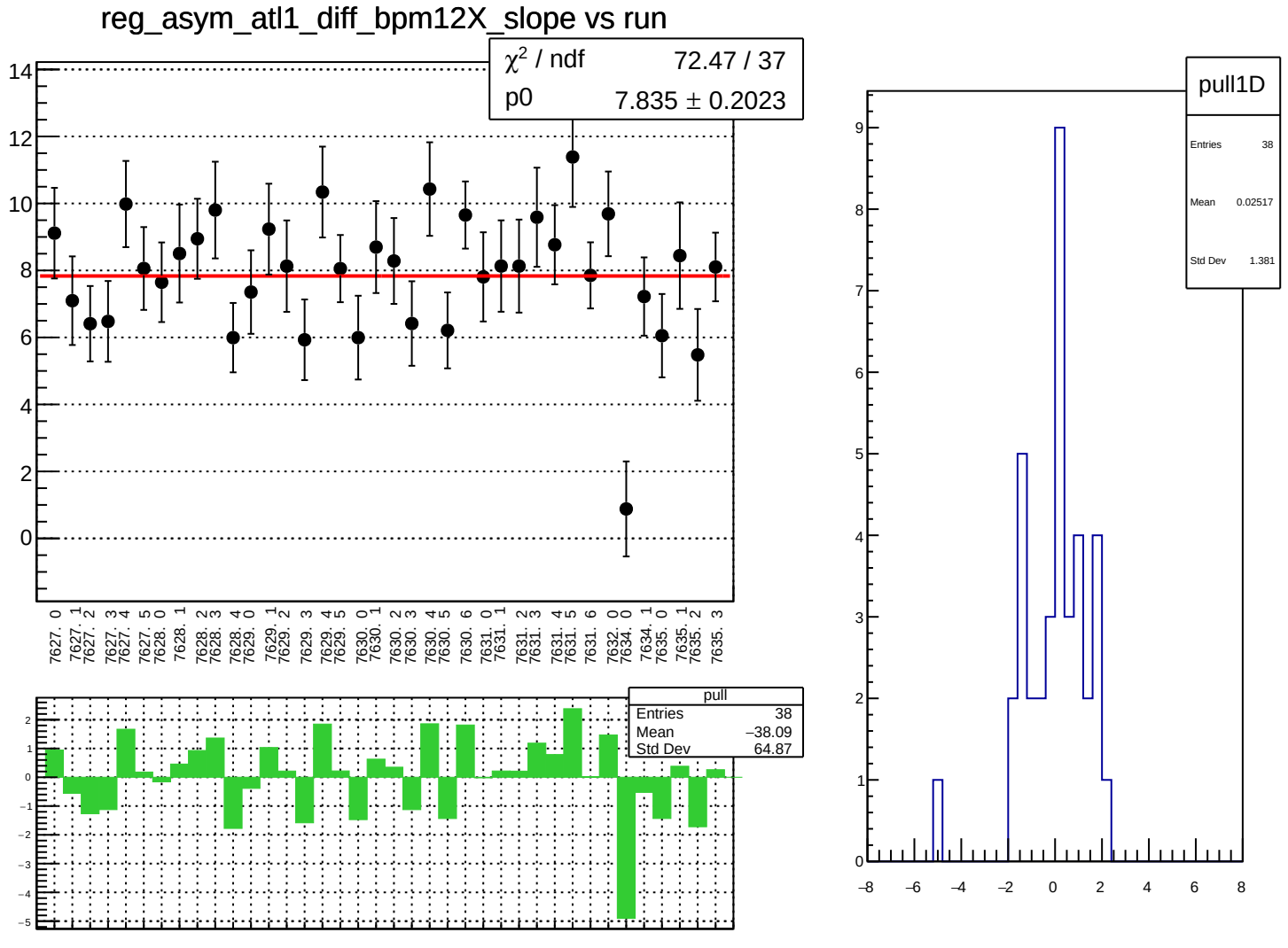

pull1D
Entries 38
Mean 0.01952
Std Dev 0.8369

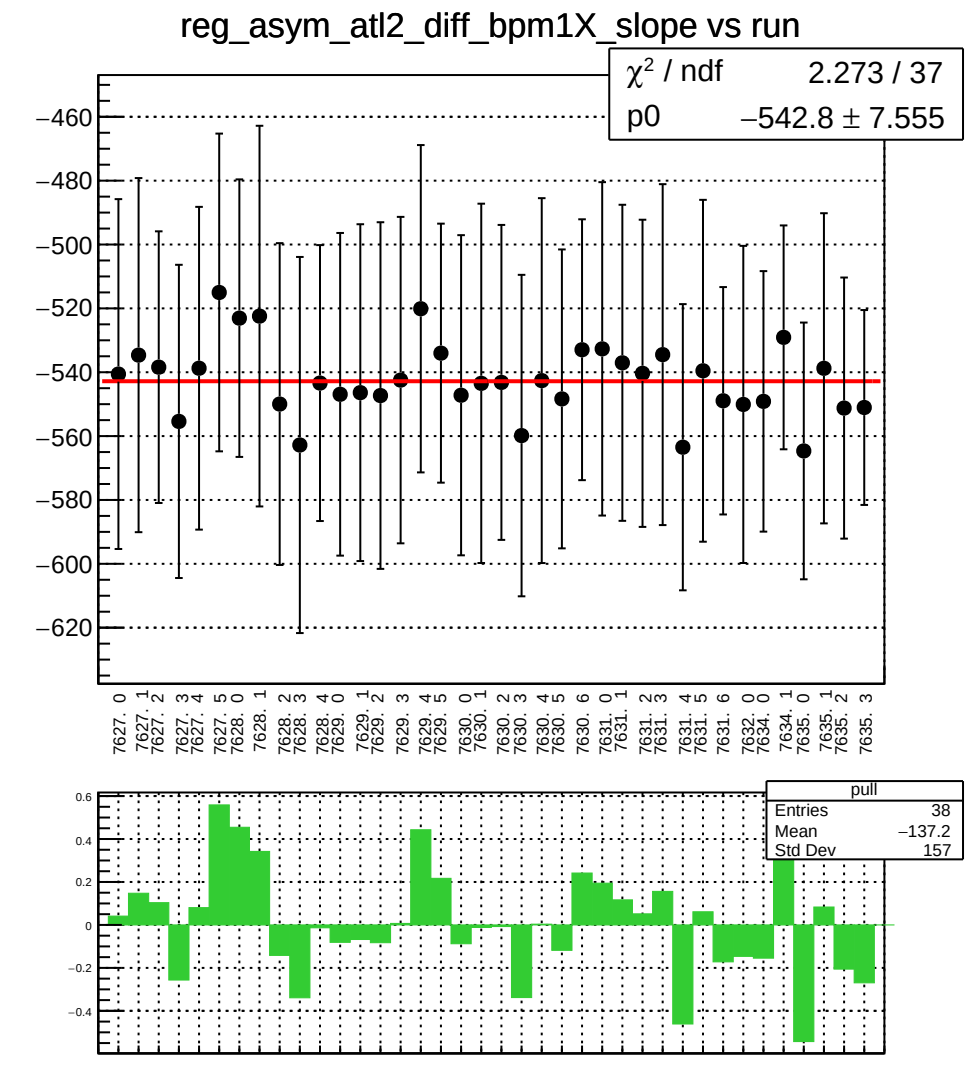

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 51.58 / 37
p0 −1.324 ± 1.257
30
20
10
0
−10
−20
−30
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −45.33
Std Dev 66.27
3
2
1
0
−1
−2

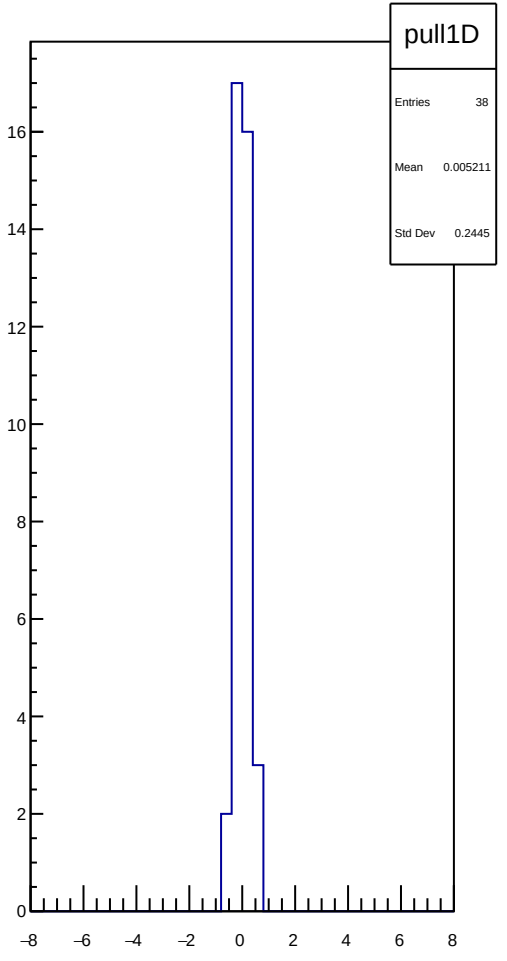

pull1D
Entries 38
Mean −0.05473
Std Dev 1.164
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

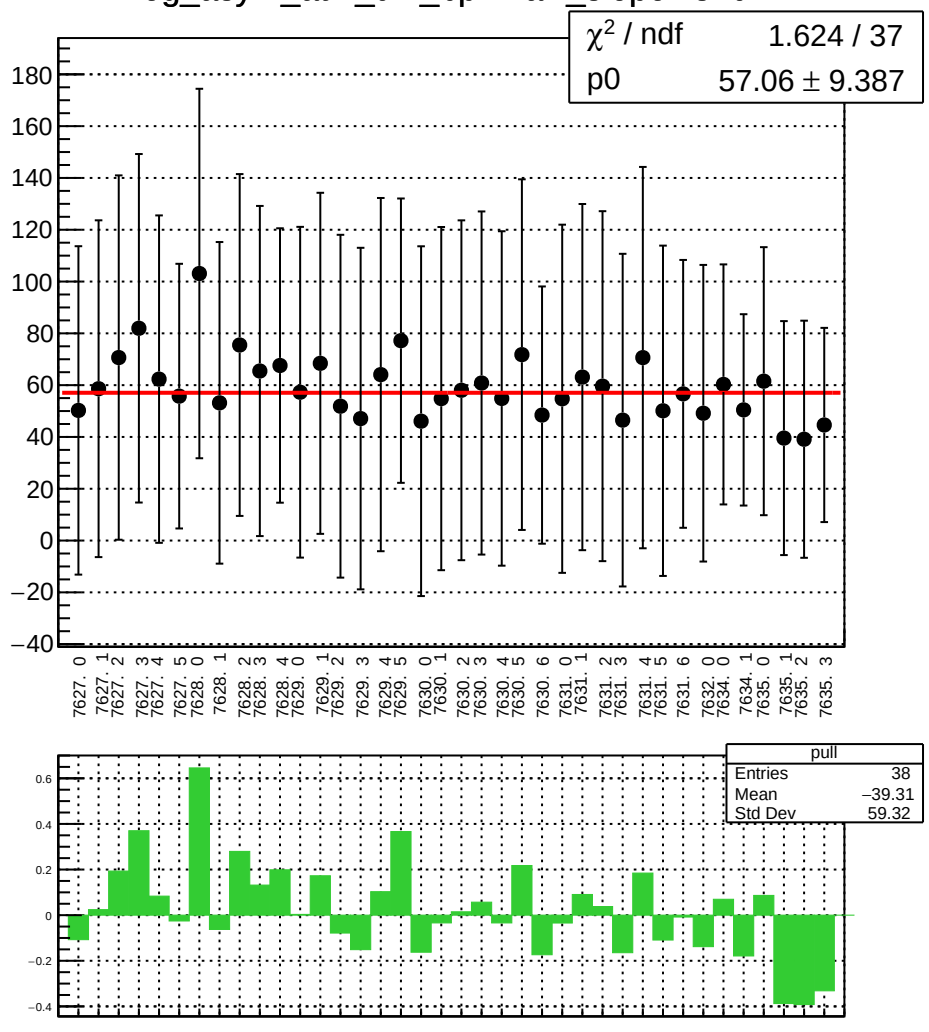

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 26.26 / 37
p0 −15.52 ± 2.845
20
0
−20
−40
−60
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 4
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −95.91
Std Dev 117.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

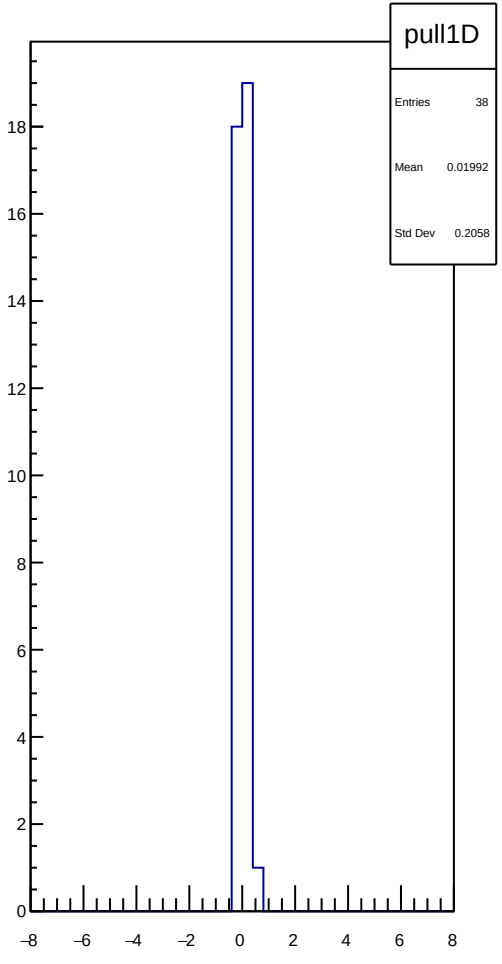

pull1D
Entries 38
Mean −0.02136
Std Dev 0.831
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

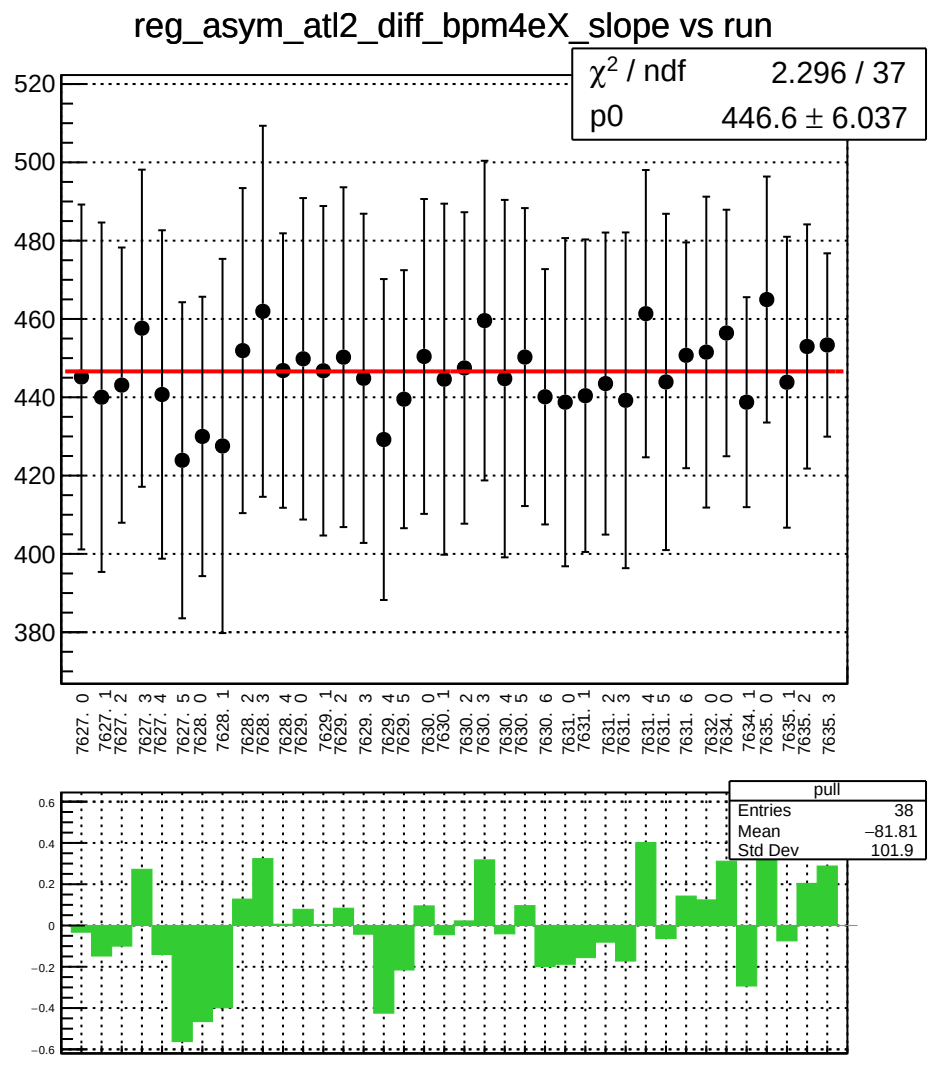

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 72.47 / 37
p0 7.835 ± 0.2023
pull
Entries 38
Mean −38.09
Std Dev 64.87
pull1D
Entries 38
Mean 0.02517
Std Dev 1.381

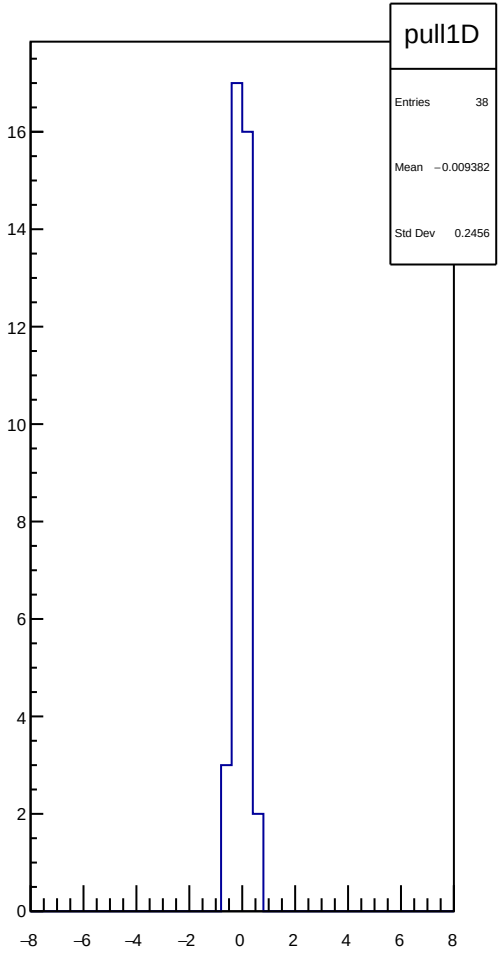

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 2.273 / 37
p0 −542.8 ± 7.555
−460
−480
−500
−520
−540
−560
−580
−600
−620
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −137.2
Std Dev 157
0.6
0.4
0.2
0
−0.2
−0.4

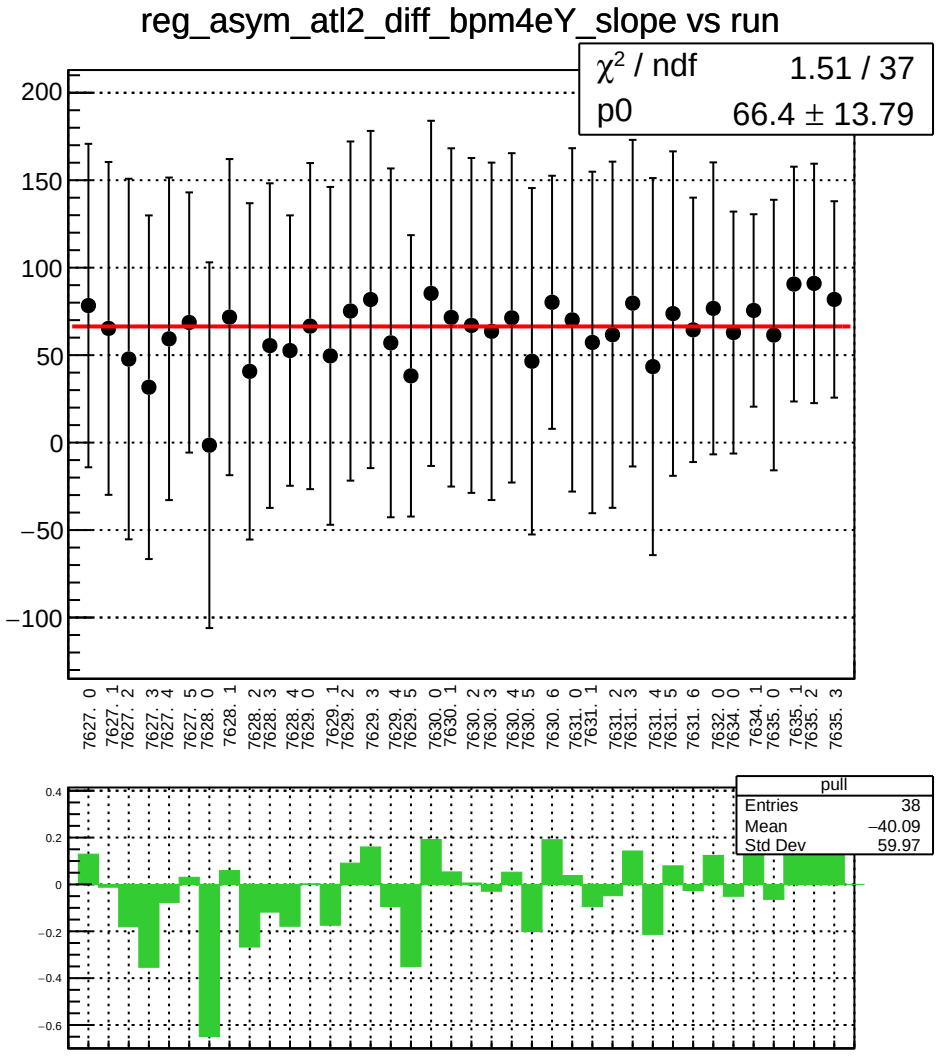

pull1D
Entries 38
Mean 0.005211
Std Dev 0.2445
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

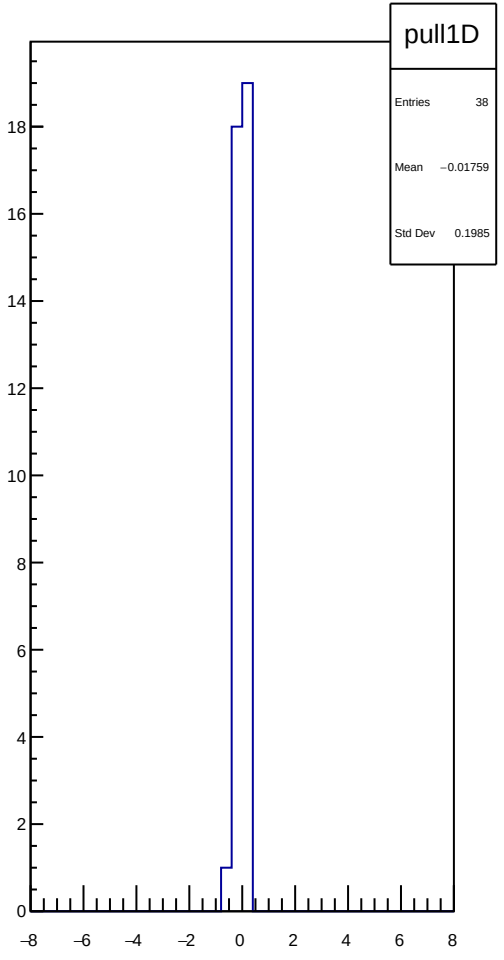

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 1.624 / 37
p0 57.06 ± 9.387
pull
Entries 38
Mean −39.31
Std Dev 59.32

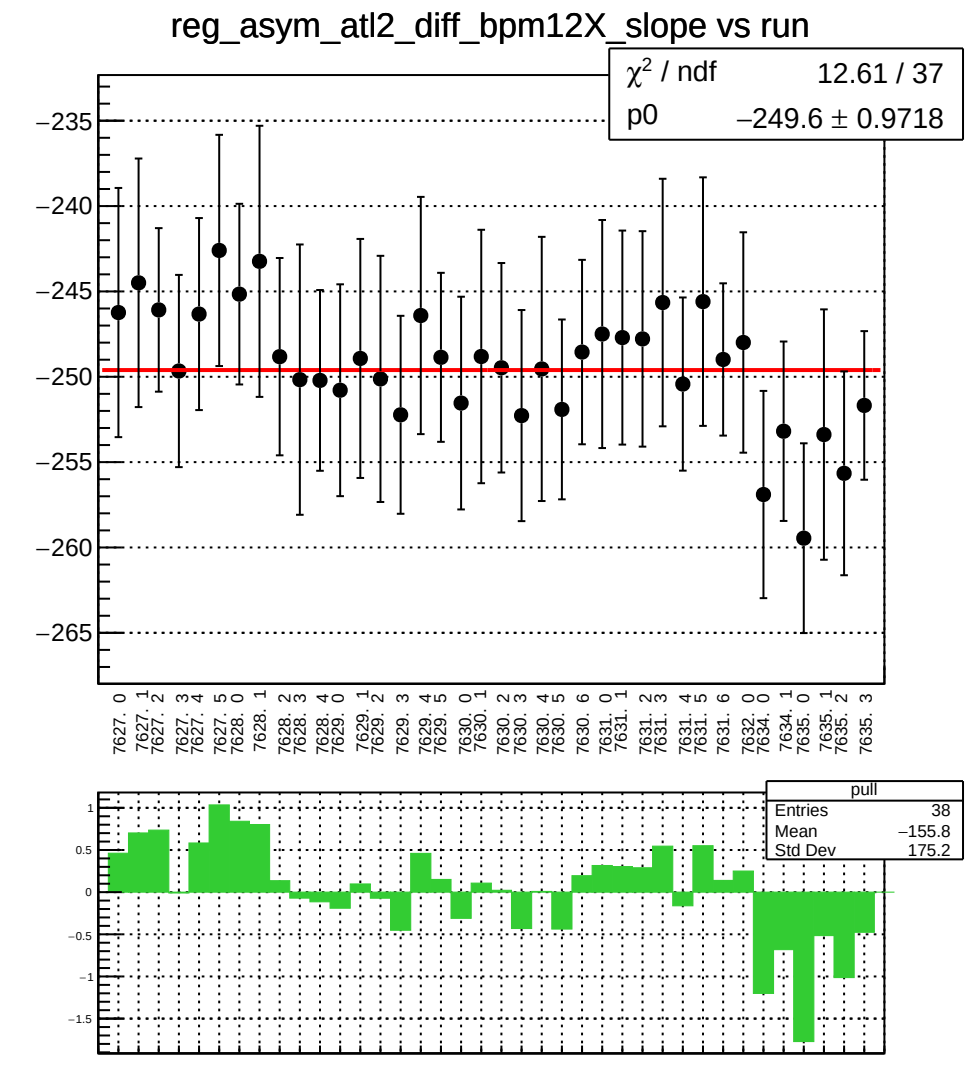

pull1D
Entries 38
Mean 0.01992
Std Dev 0.2058

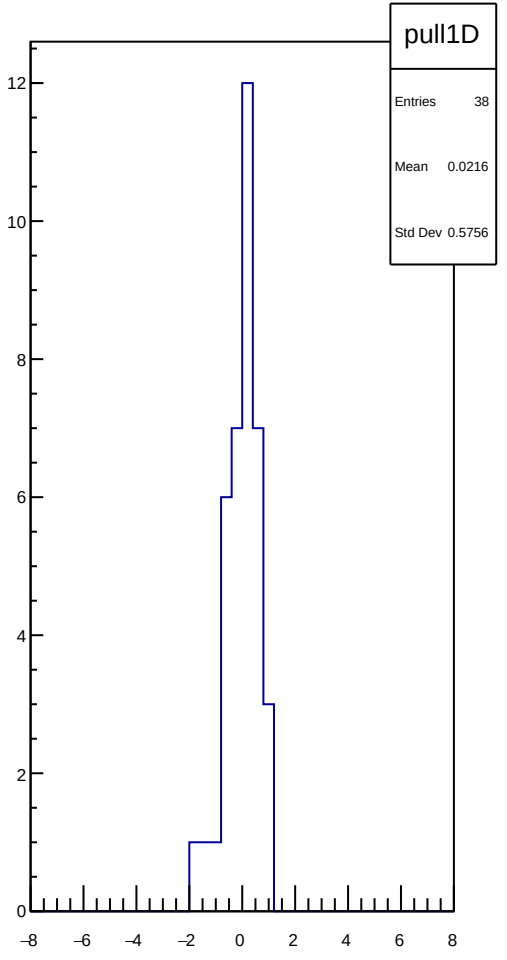

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 2.296 / 37
p0 446.6 ± 6.037
520
500
480
460
440
420
400
380
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −81.81
Std Dev 101.9
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

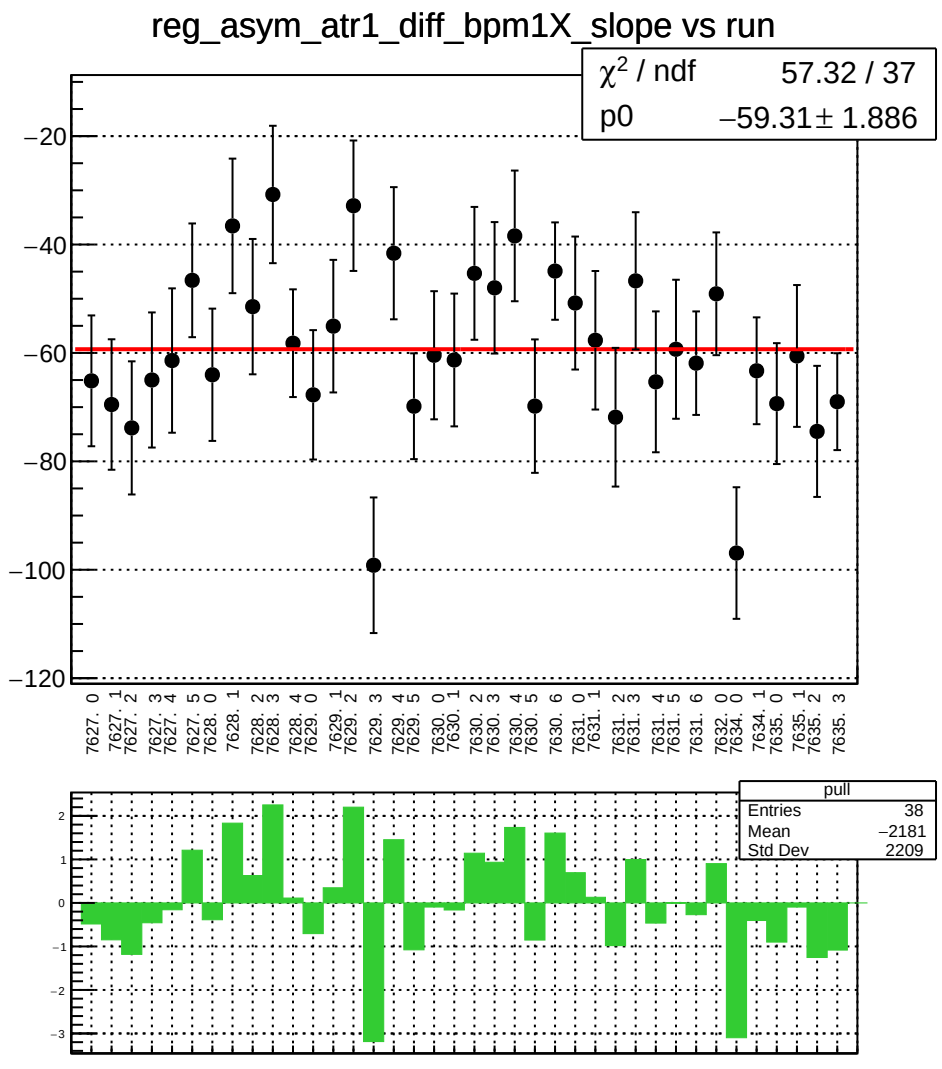

pull1D
Entries 38
Mean −0.009382
Std Dev 0.2456
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

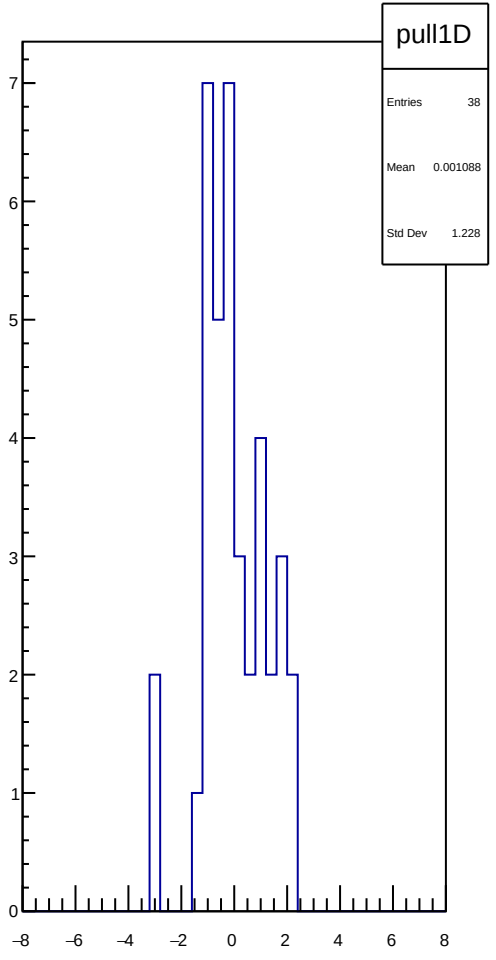

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 1.51 / 37
p0 66.4 ± 13.79
200
150
100
50
0
−50
−100
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −40.09
Std Dev 59.97
0.4
0.2
0
−0.2
−0.4
−0.6

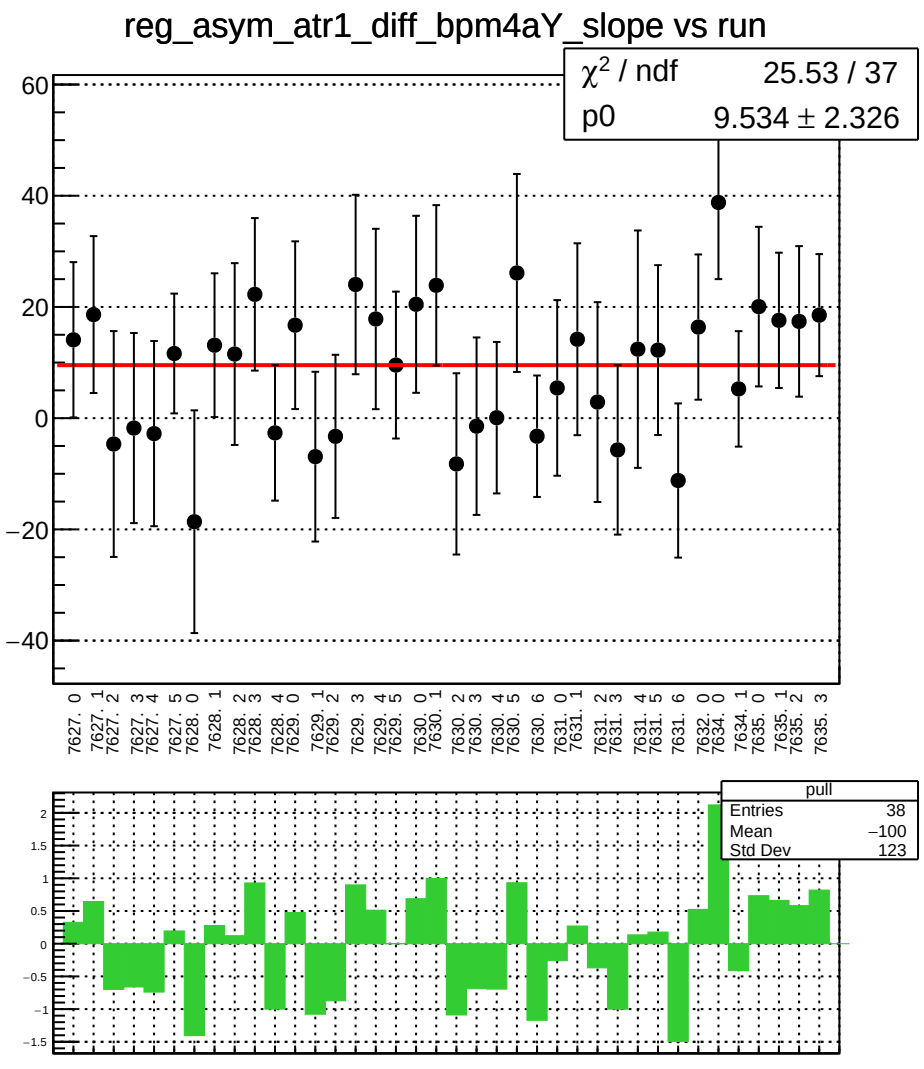

pull1D
Entries 38
Mean −0.01759
Std Dev 0.1985
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

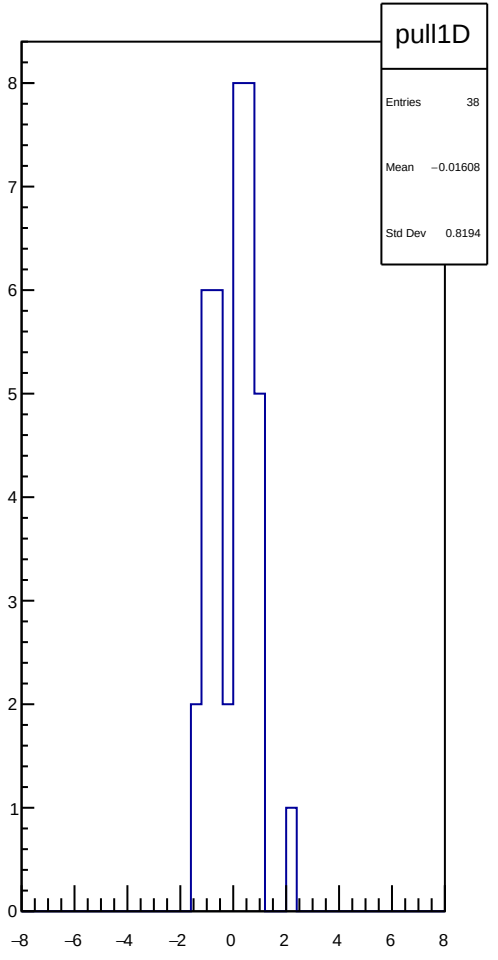

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 12.61 / 37
p0 −249.6 ± 0.9718
−235
−240
−245
−250
−255
−260
−265
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −155.8
Std Dev 175.2
1
0.5
0
−0.5
−1
−1.5

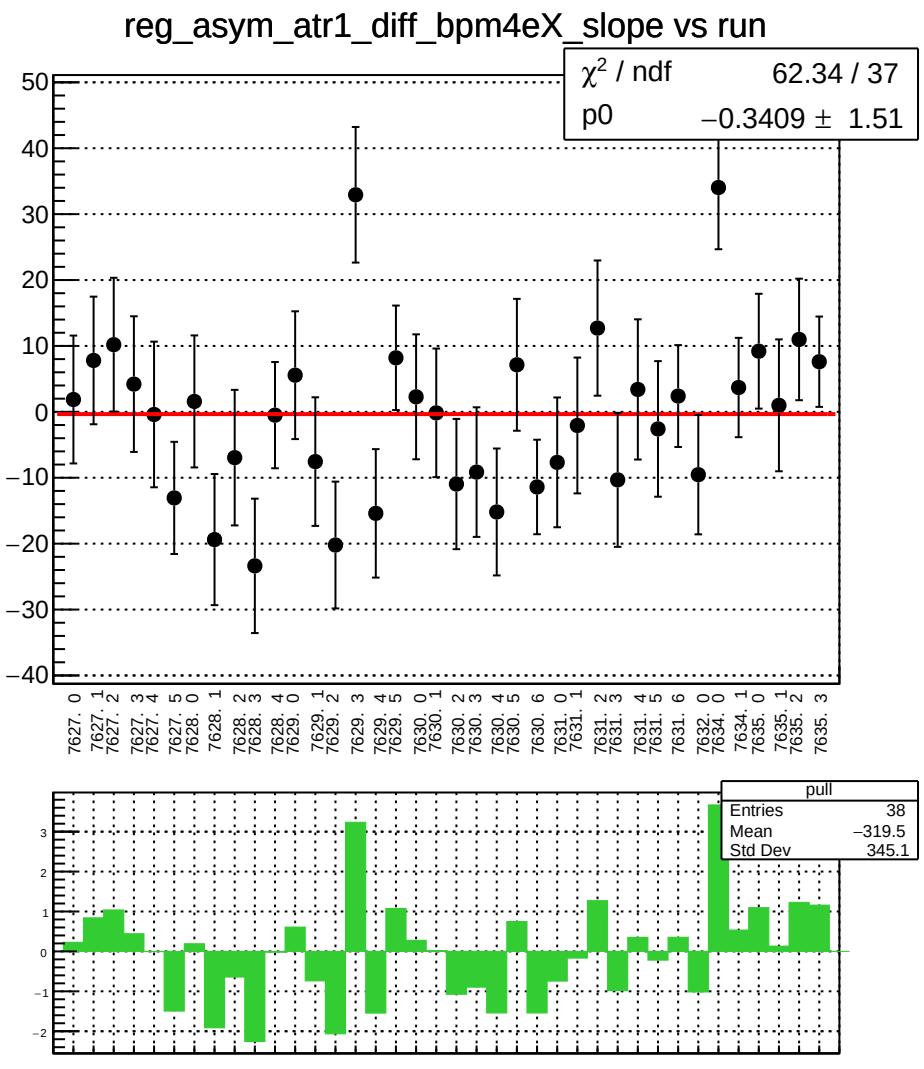

pull1D
Entries 38
Mean 0.0216
Std Dev 0.5756
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

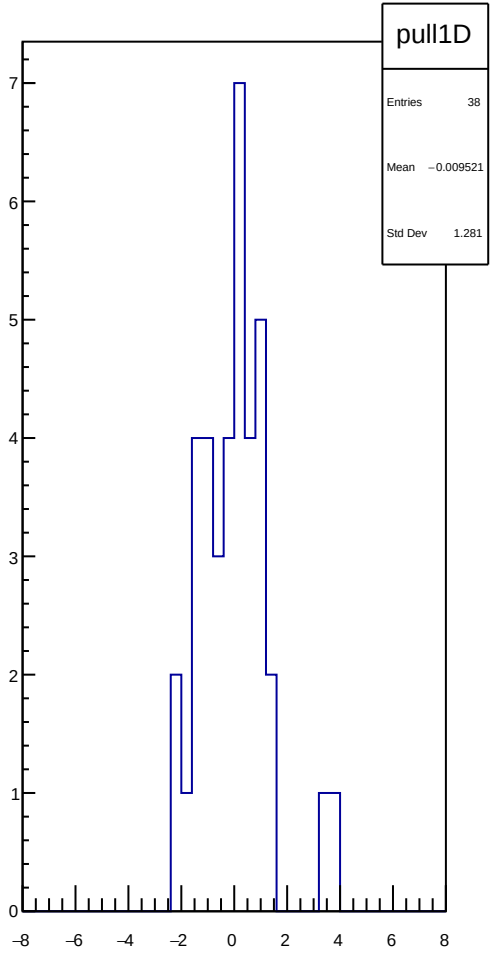

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 57.32 / 37
p0 −59.31 ± 1.886
−20
−40
−60
−80
−100
−120
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −2181
Std Dev 2209
2
1
0
−1
−2
−3

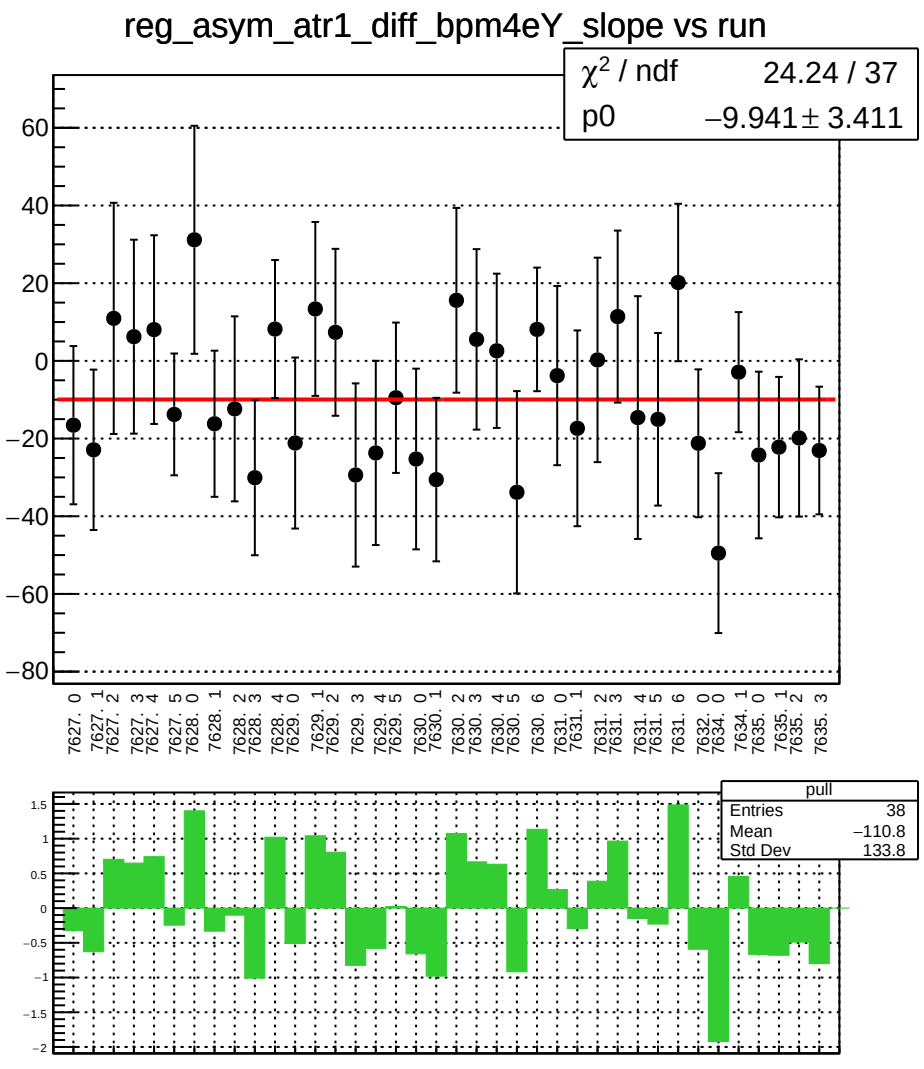

pull1D
Entries 38
Mean 0.001088
Std Dev 1.228
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

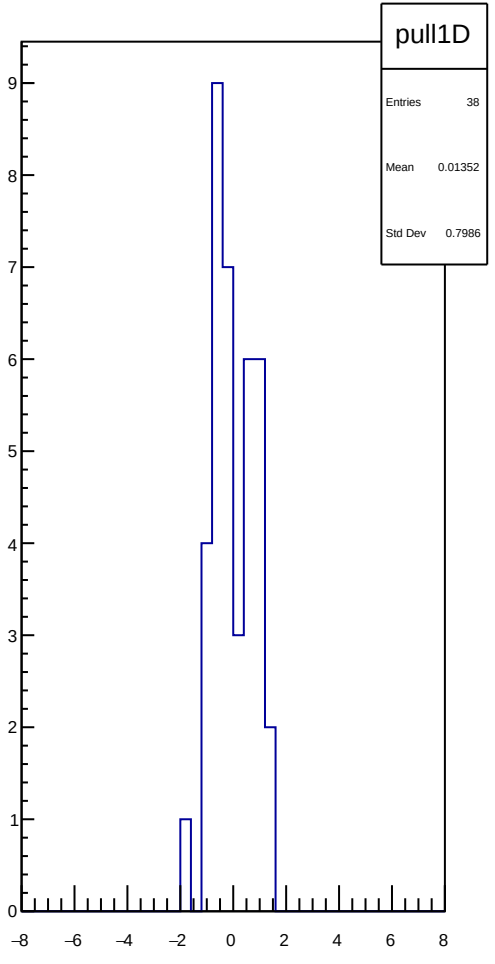

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 25.53 / 37
p0 9.534 ± 2.326
60
40
20
0
−20
−40
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −100
Std Dev 123
2
1.5
1
0.5
0
−0.5
−1
−1.5

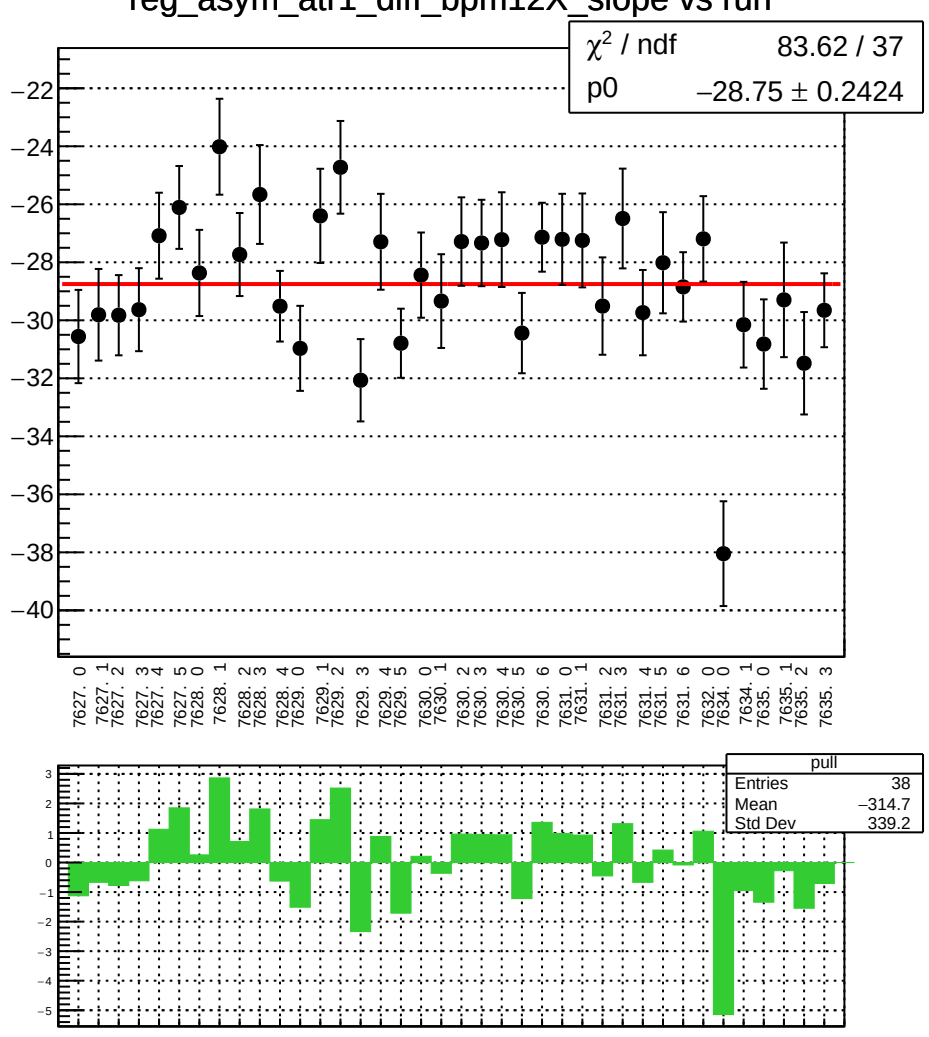

pull1D
Entries 38
Mean −0.01608
Std Dev 0.8194
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

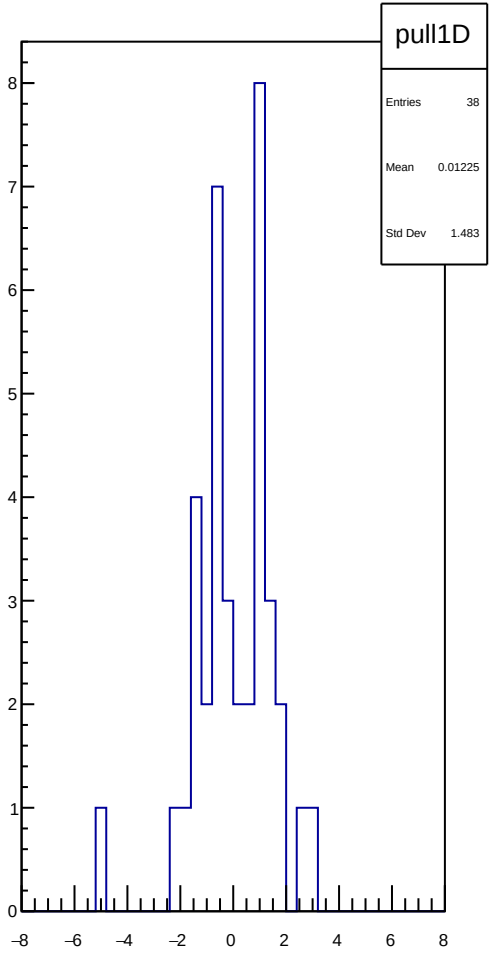

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 62.34 / 37
p0 −0.3409 ± 1.51
pull
Entries 38
Mean −319.5
Std Dev 345.1

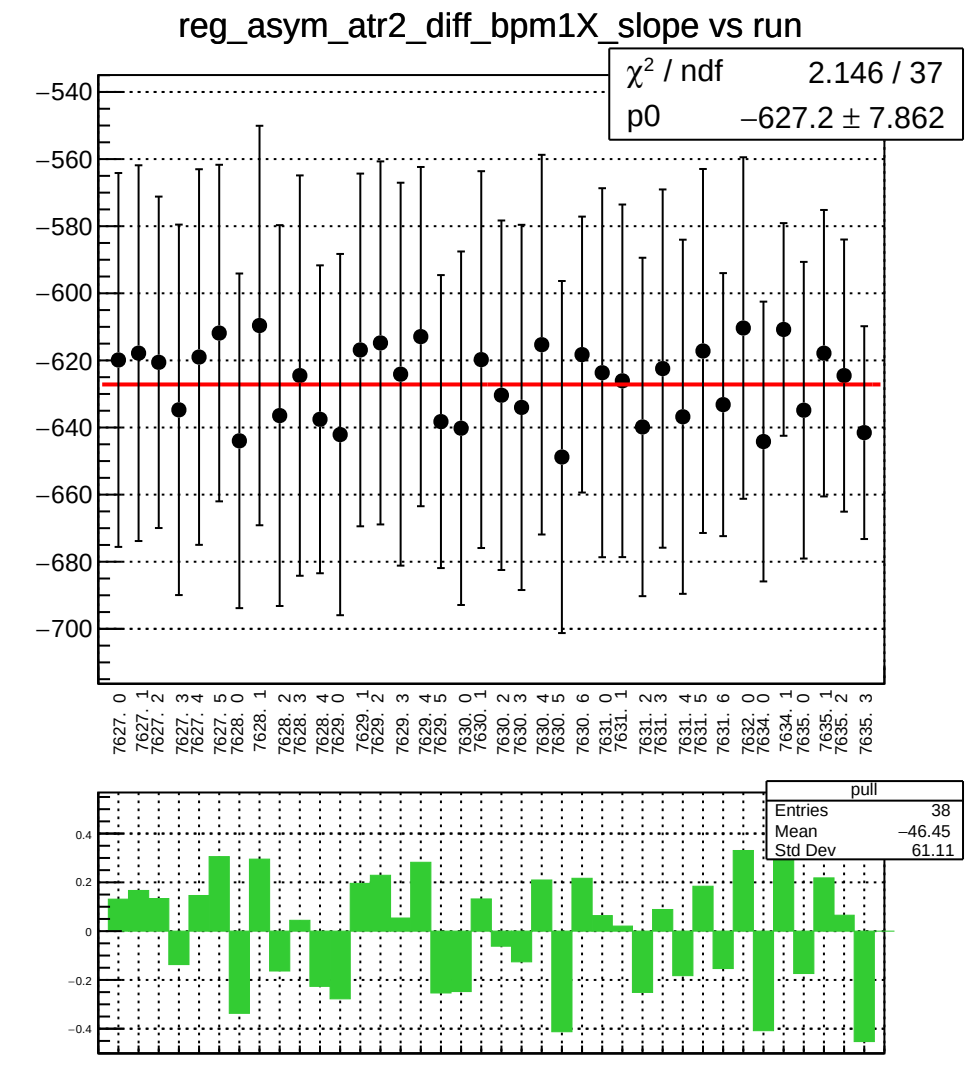

pull1D
Entries 38
Mean −0.009521
Std Dev 1.281

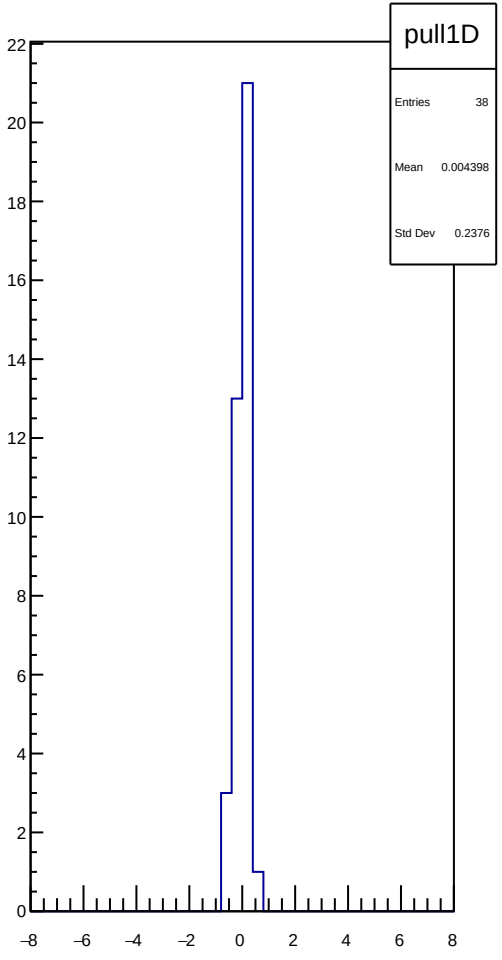

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 24.24 / 37
p0 −9.941 ± 3.411
pull
Entries 38
Mean −110.8
Std Dev 133.8

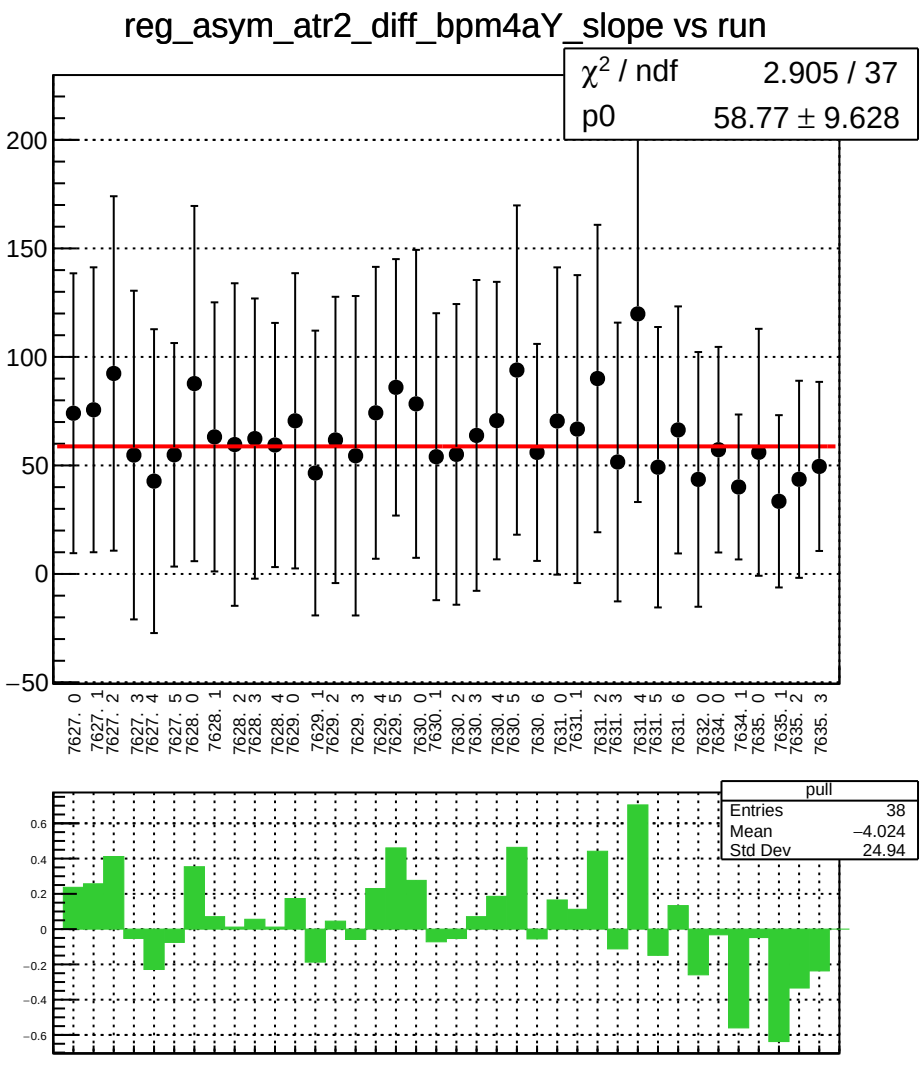

pull1D
Entries 38
Mean 0.01352
Std Dev 0.7986

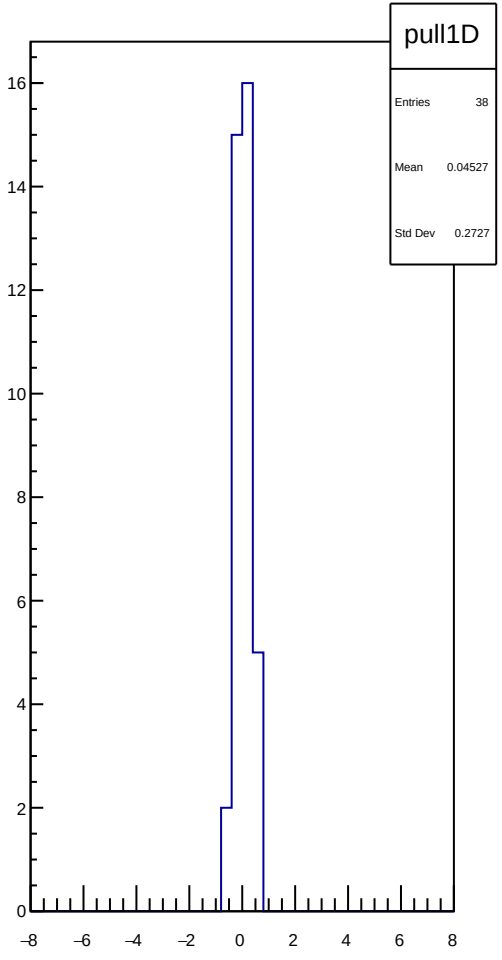

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 83.62 / 37
p0 −28.75 ± 0.2424
pull
Entries 38
Mean −314.7
Std Dev 339.2

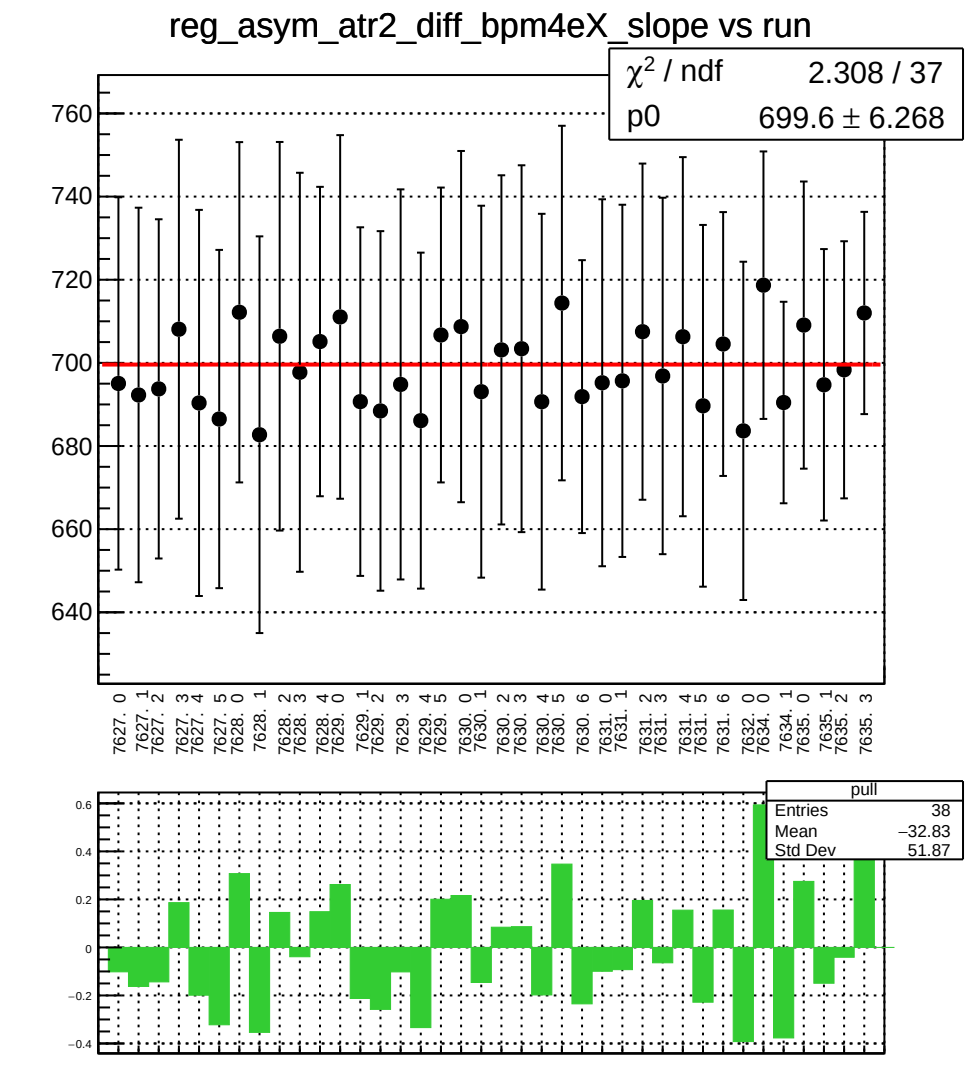

pull1D
Entries 38
Mean 0.01225
Std Dev 1.483

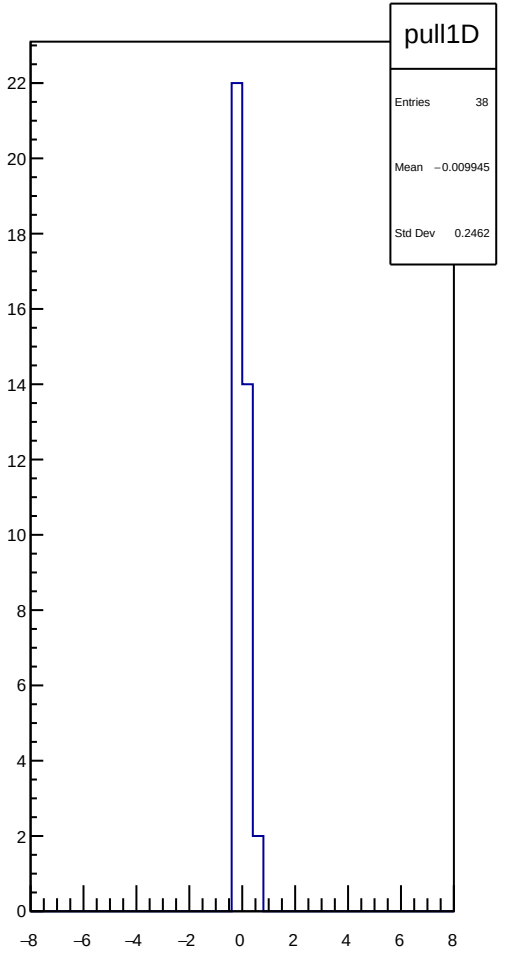

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 2.146 / 37
p0 −627.2 ± 7.862
−540
−560
−580
−600
−620
−640
−660
−680
−700
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −46.45
Std Dev 61.11
0.4
0.2
0
−0.2
−0.4

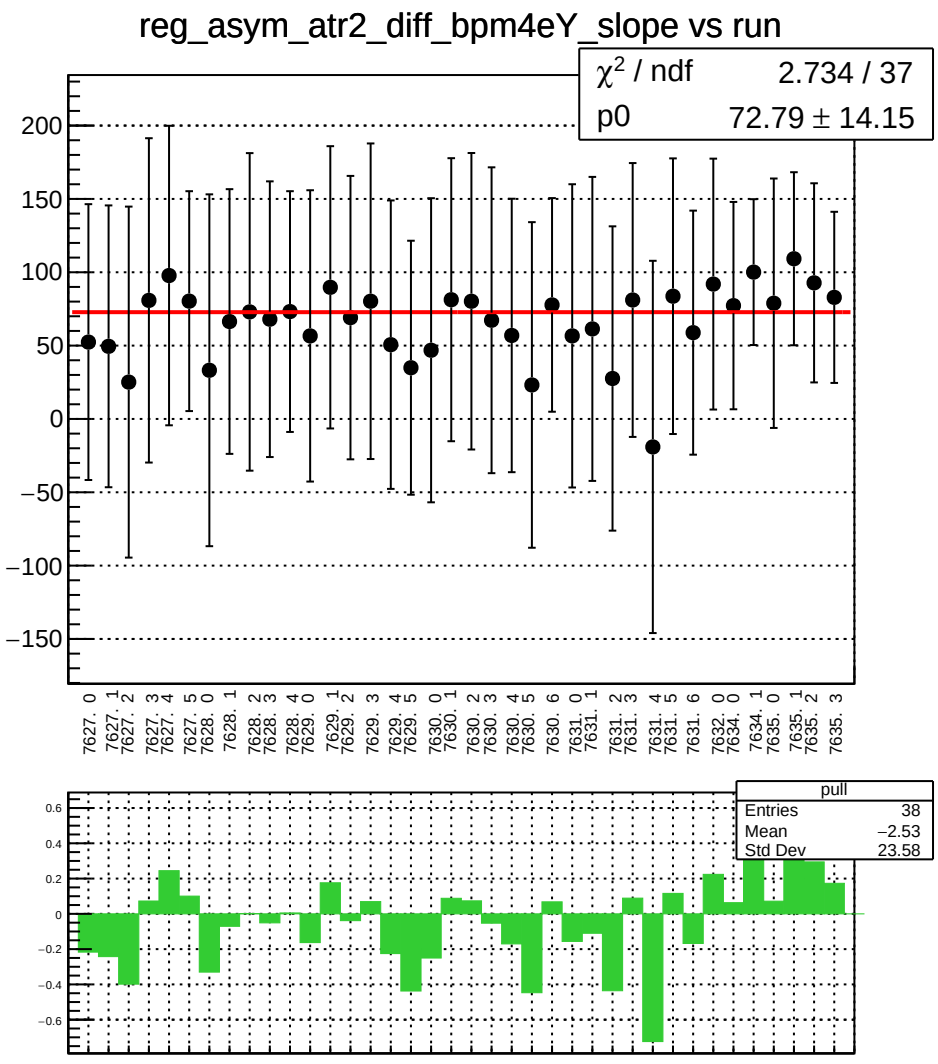

pull1D
Entries 38
Mean 0.004398
Std Dev 0.2376
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

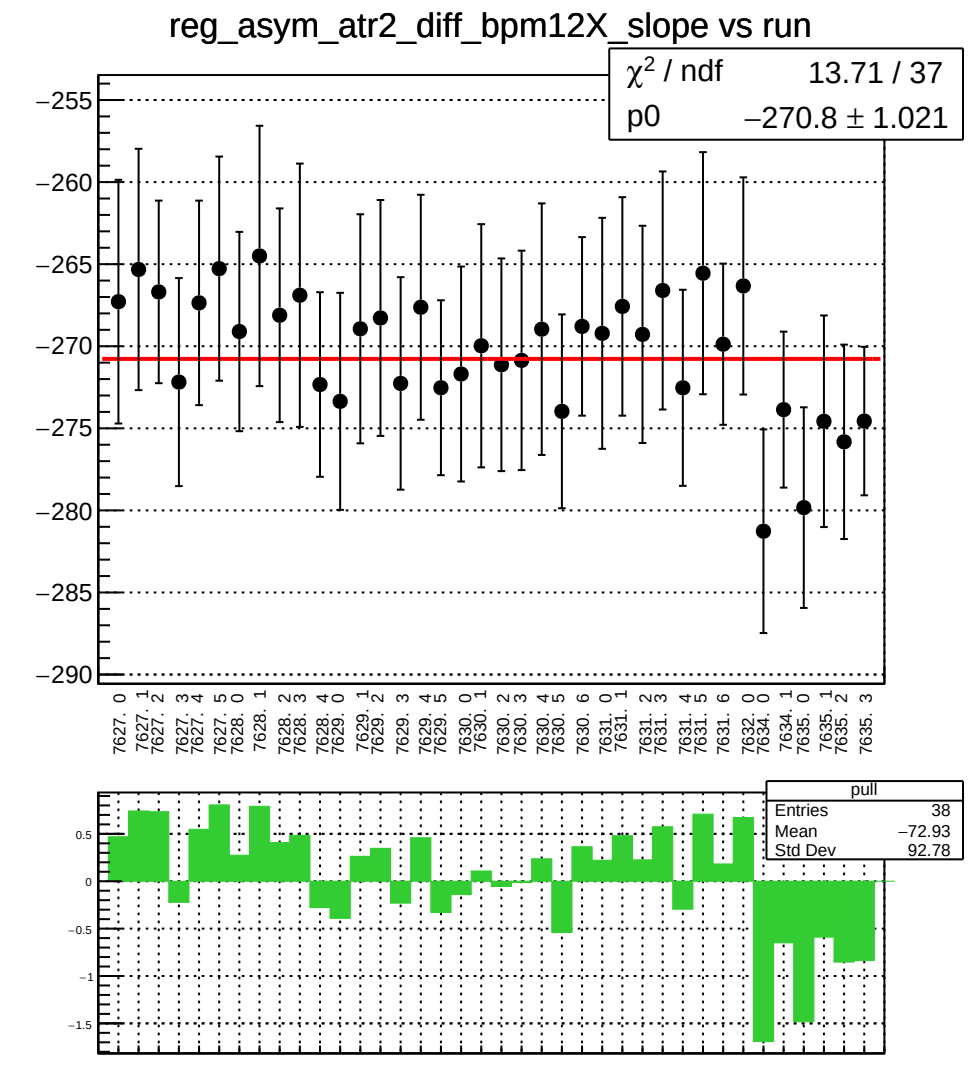

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 2.905 / 37
p0 58.77 ± 9.628
200
150
100
50
0
−50
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 4
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −4.024
Std Dev 24.94
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

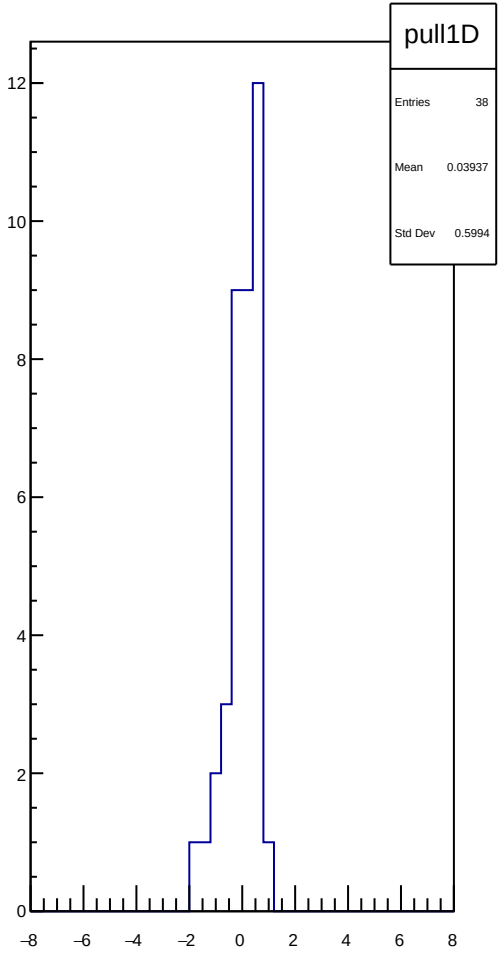

pull1D
Entries 38
Mean 0.04527
Std Dev 0.2727
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

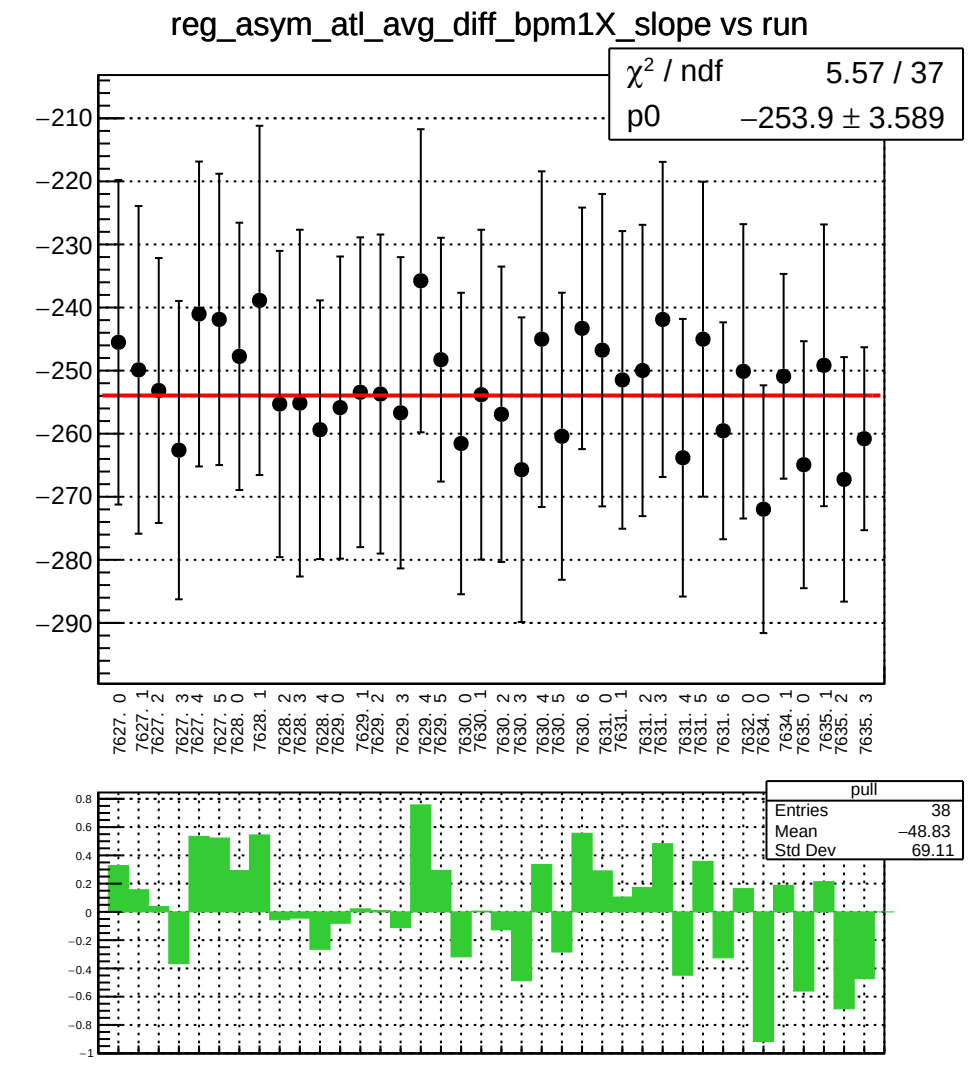

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 2.308 / 37
p0 699.6 ± 6.268
760
740
720
700
680
660
640
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −32.83
Std Dev 51.87
0.6
0.4
0.2
0
−0.2
−0.4

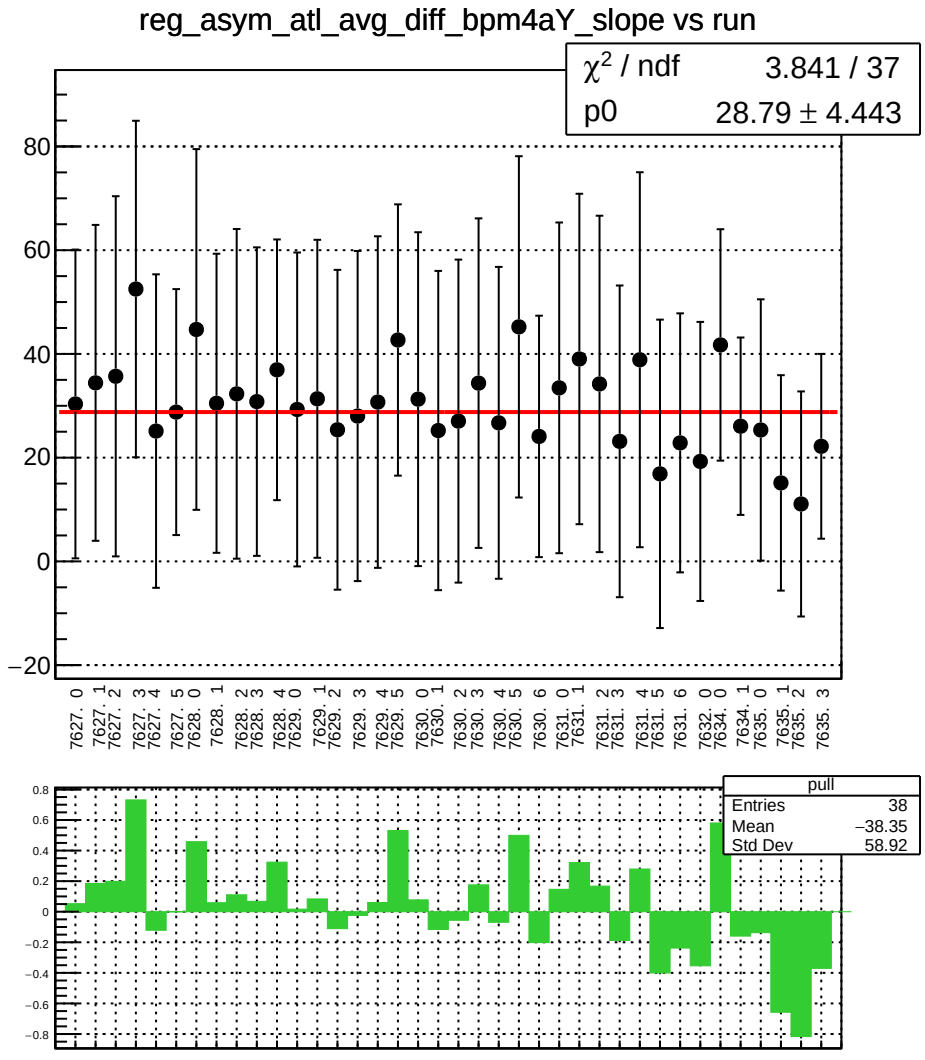

pull1D
Entries 38
Mean −0.009945
Std Dev 0.2462
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

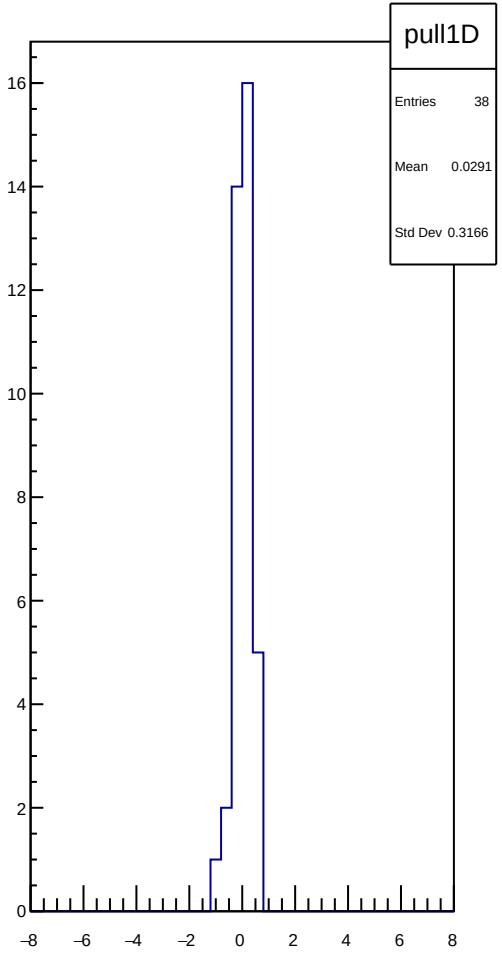

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 2.734 / 37
p0 72.79 ± 14.15
200
150
100
50
0
−50
−100
−150
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −2.53
Std Dev 23.58
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 38
Mean −0.04183
Std Dev 0.2649
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

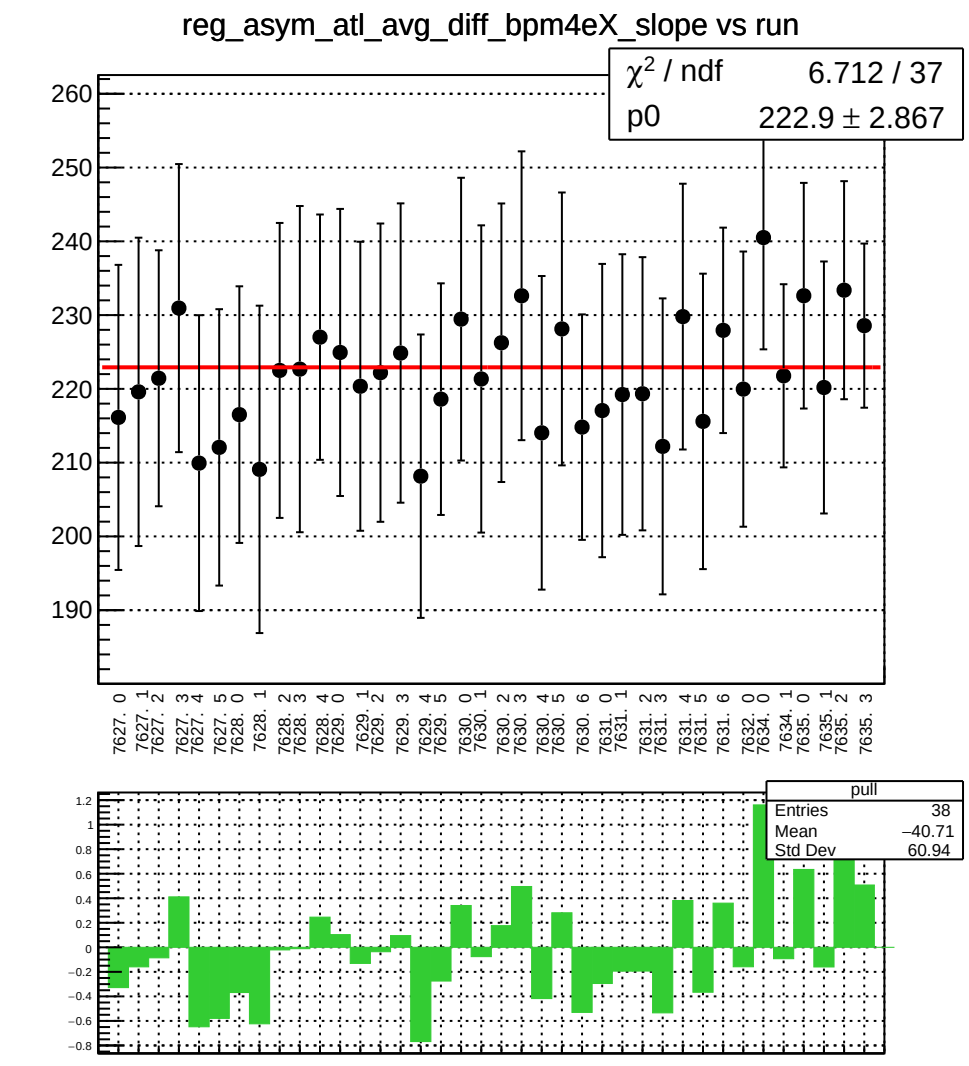

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 13.71 / 37
p0 −270.8 ± 1.021
pull
Entries 38
Mean −72.93
Std Dev 92.78

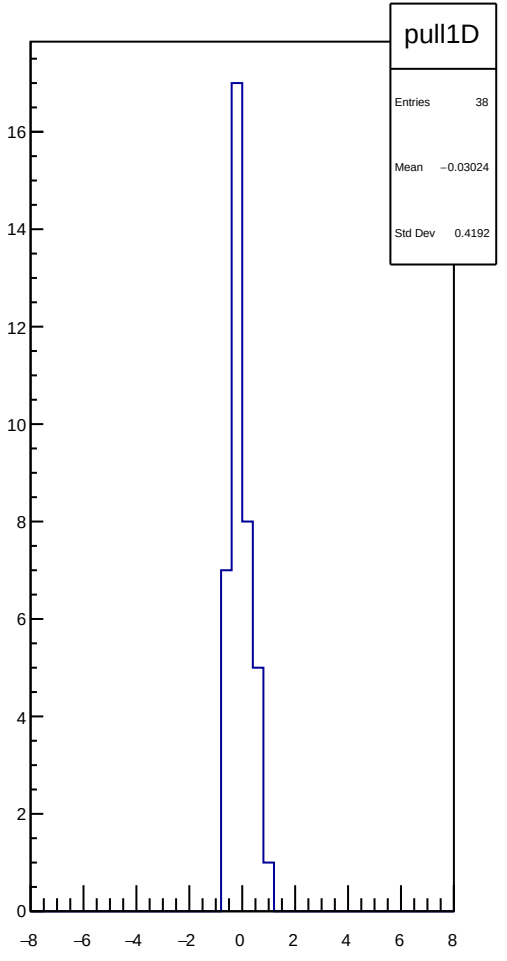

pull1D
Entries 38
Mean 0.03937
Std Dev 0.5994

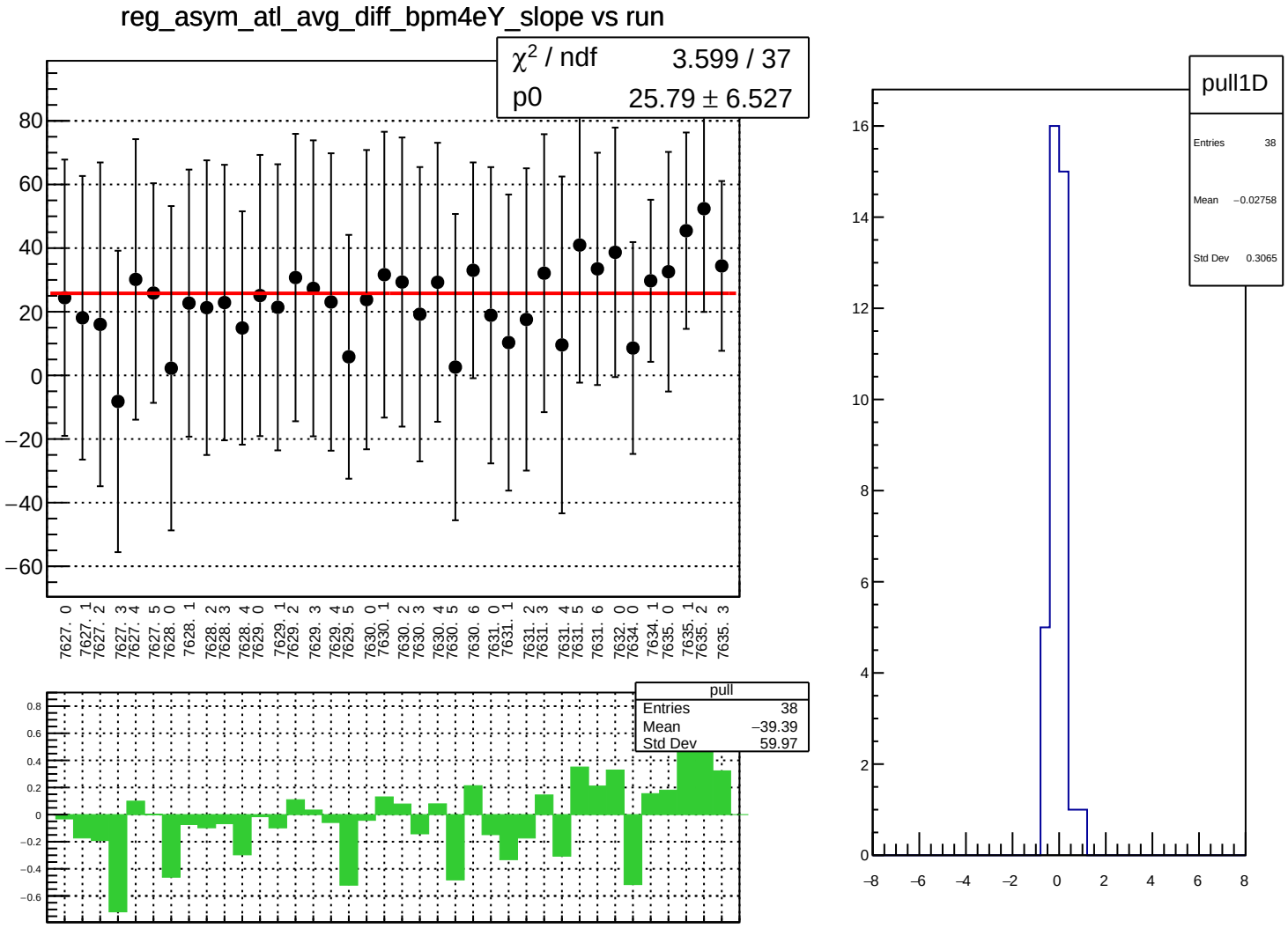

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 5.57 / 37
p0 −253.9 ± 3.589
−210
−220
−230
−240
−250
−260
−270
−280
−290
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −48.83
Std Dev 69.11
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 38
Mean 0.02163
Std Dev 0.3822
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

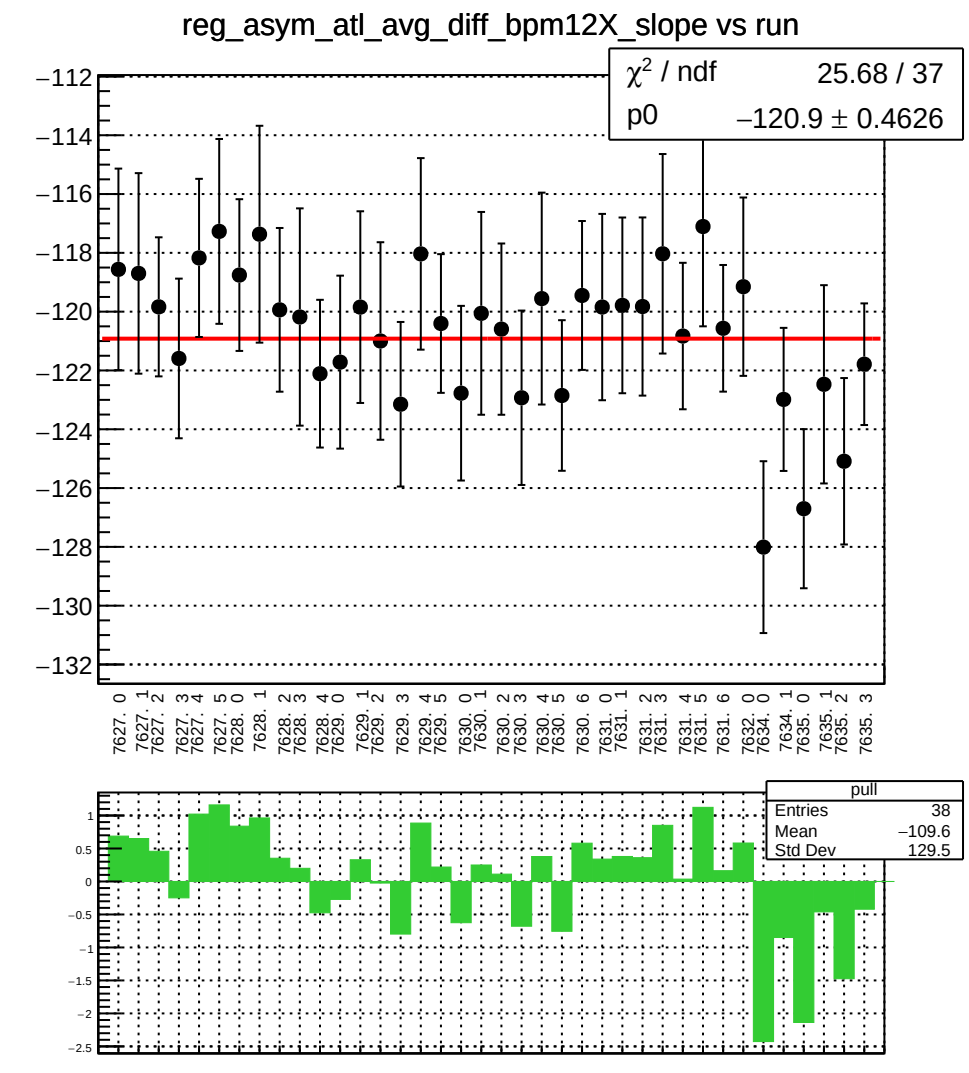

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.841 / 37
p0 28.79 ± 4.443
pull
Entries 38
Mean −38.35
Std Dev 58.92

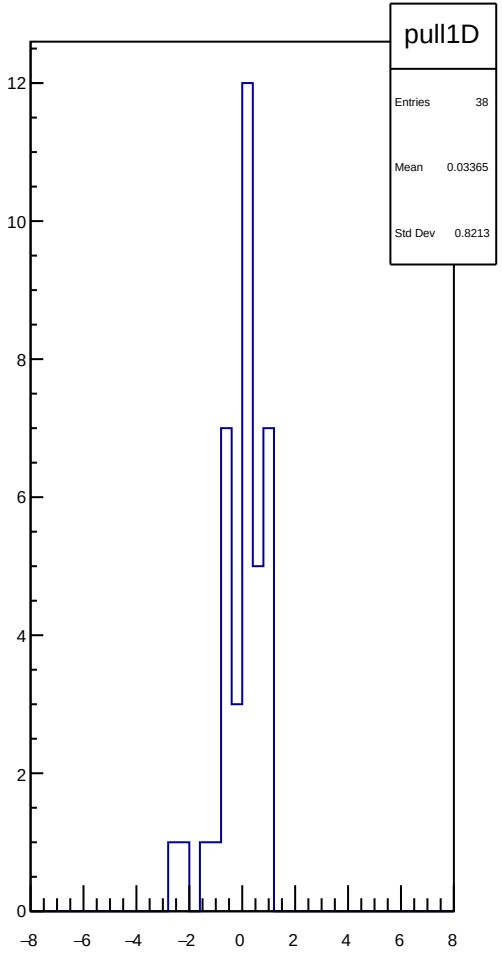

pull1D
Entries 38
Mean 0.0291
Std Dev 0.3166

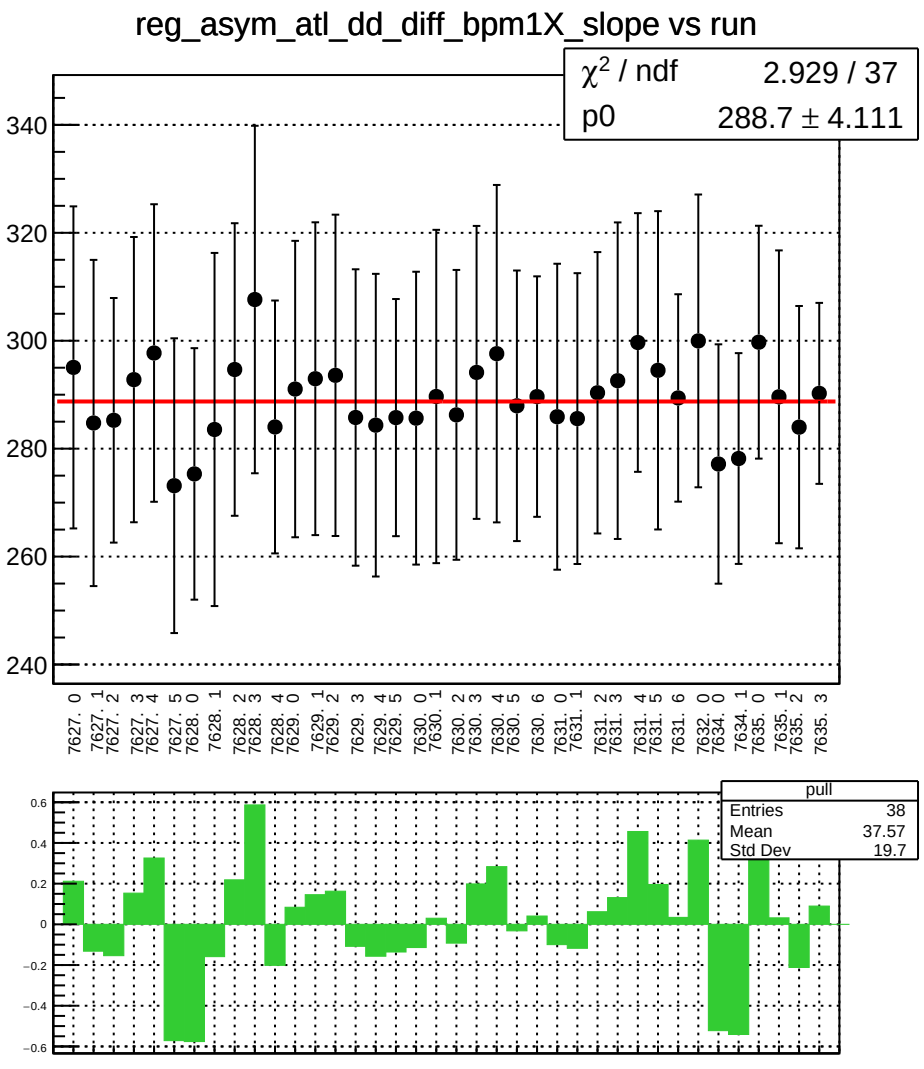

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.712 / 37
p0 222.9 ± 2.867
260
250
240
230
220
210
200
190
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −40.71
Std Dev 60.94
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

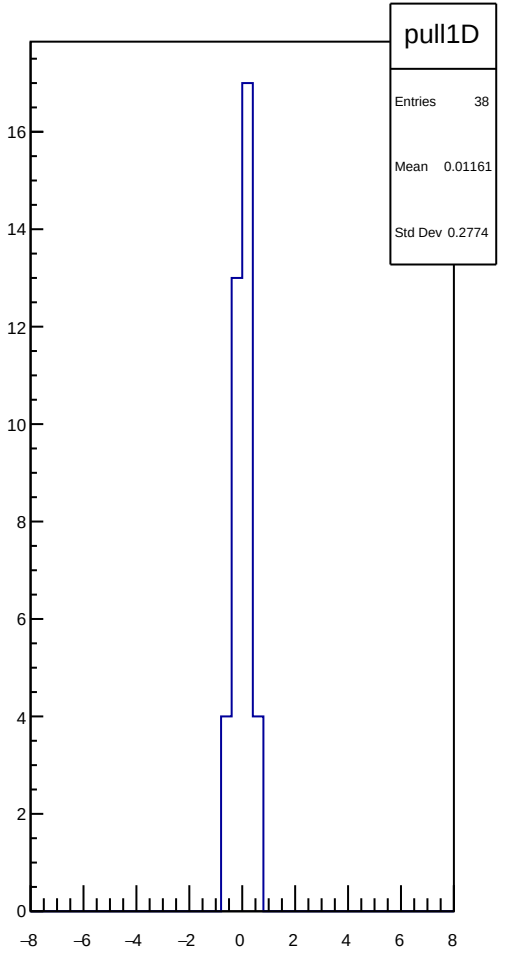

pull1D
Entries 38
Mean −0.03024
Std Dev 0.4192
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

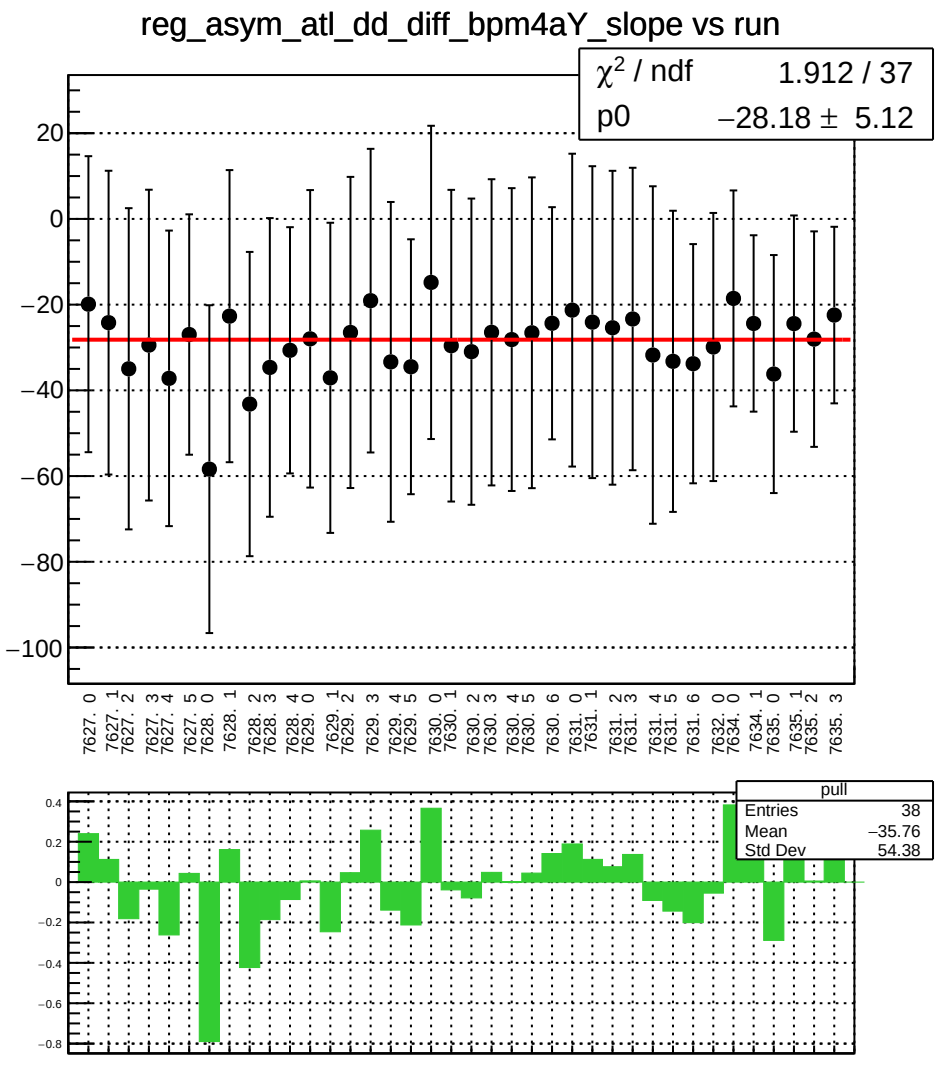

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.599 / 37
p0 25.79 ± 6.527
80
60
40
20
0
−20
−40
−60
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −39.39
Std Dev 59.97
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 38
Mean −0.02758
Std Dev 0.3065
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

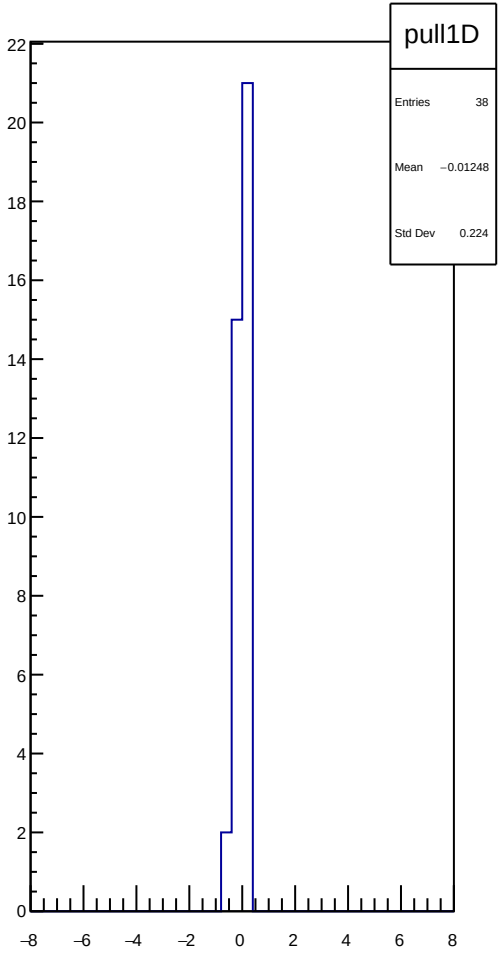

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 25.68 / 37
p0 −120.9 ± 0.4626
pull
Entries 38
Mean −109.6
Std Dev 129.5

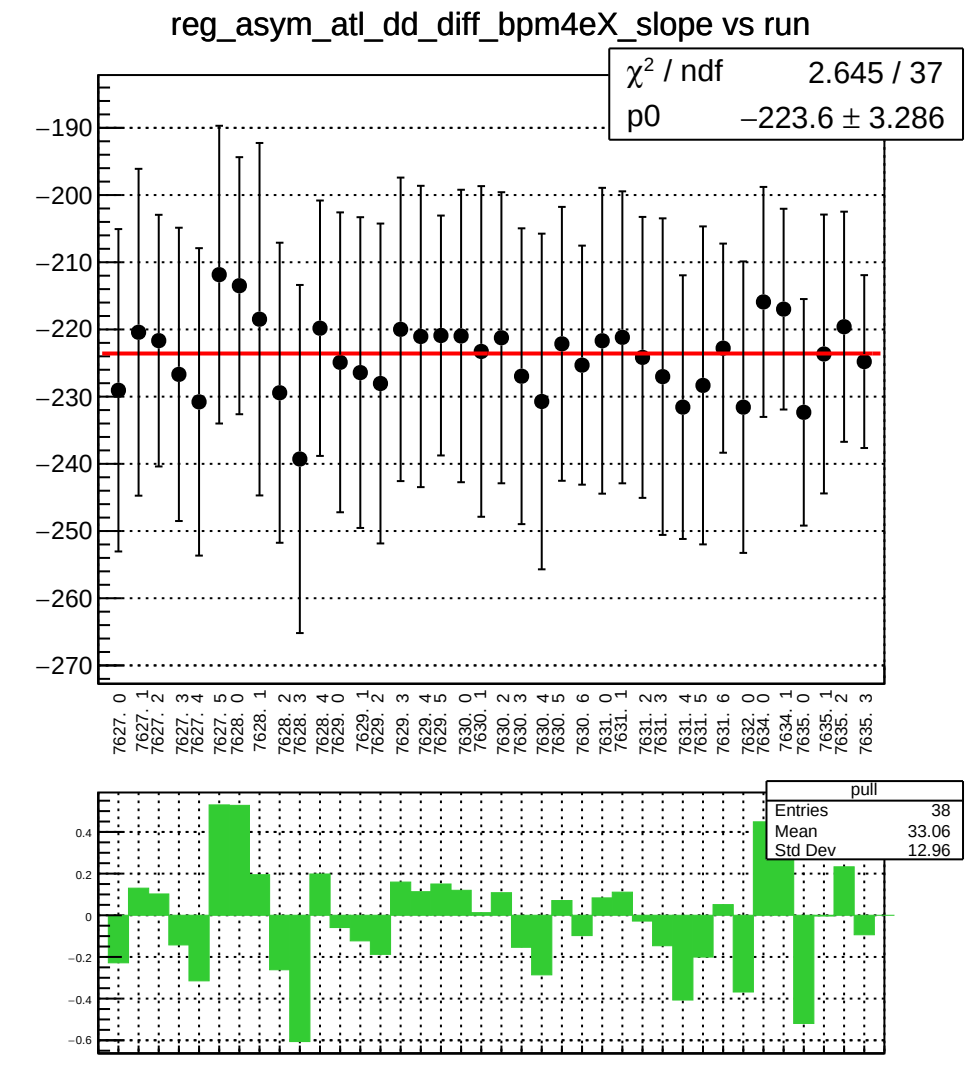

pull1D
Entries 38
Mean 0.03365
Std Dev 0.8213

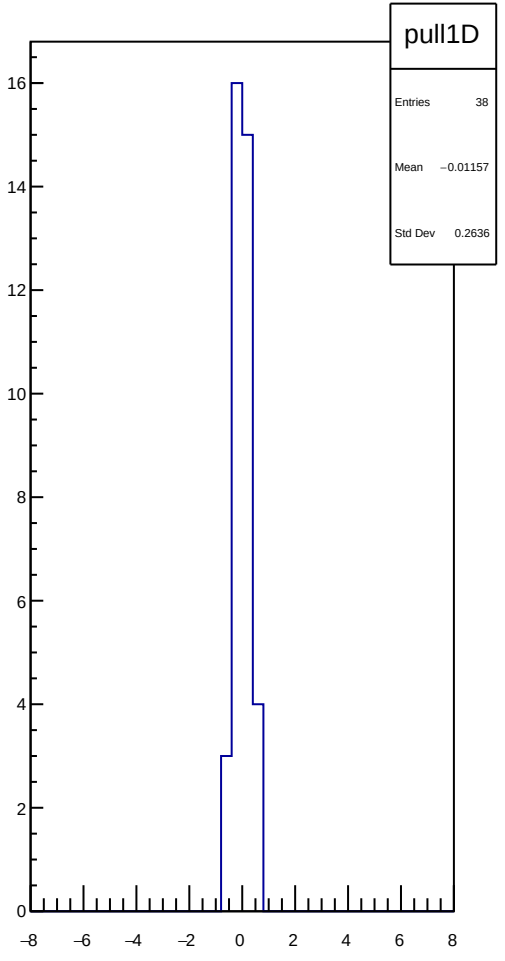

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 2.929 / 37
p0 288.7 ± 4.111
340
320
300
280
260
240
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 37.57
Std Dev 19.7
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

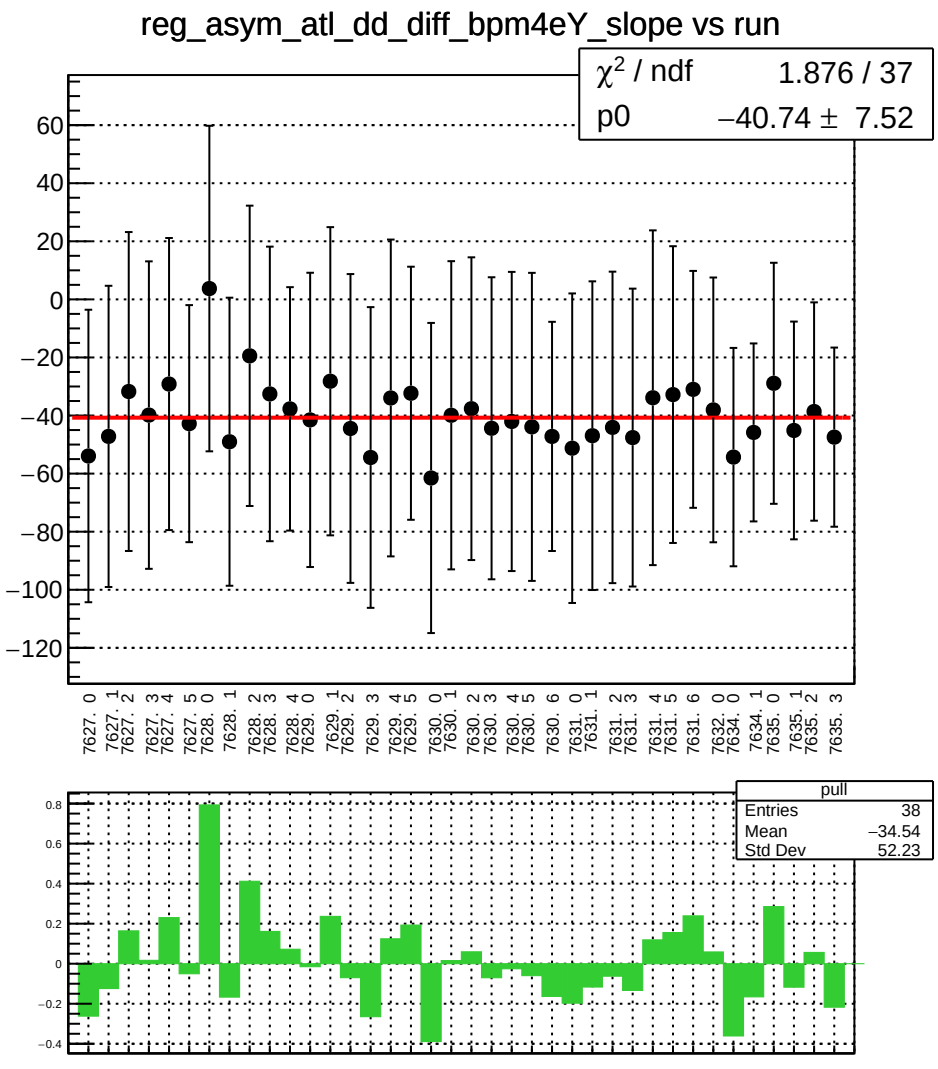

pull1D
Entries 38
Mean 0.01161
Std Dev 0.2774
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

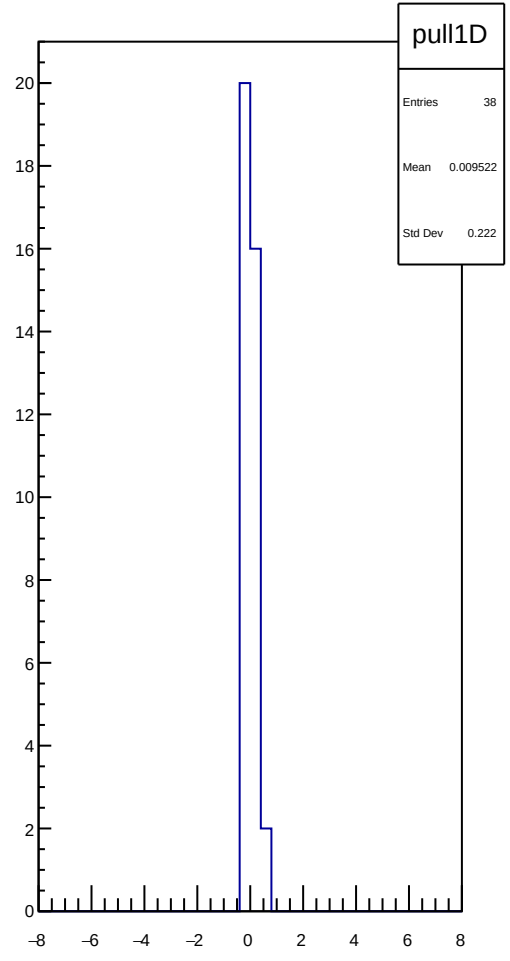

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.912 / 37
p0 −28.18 ± 5.12
20
0
−20
−40
−60
−80
−100
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −35.76
Std Dev 54.38
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

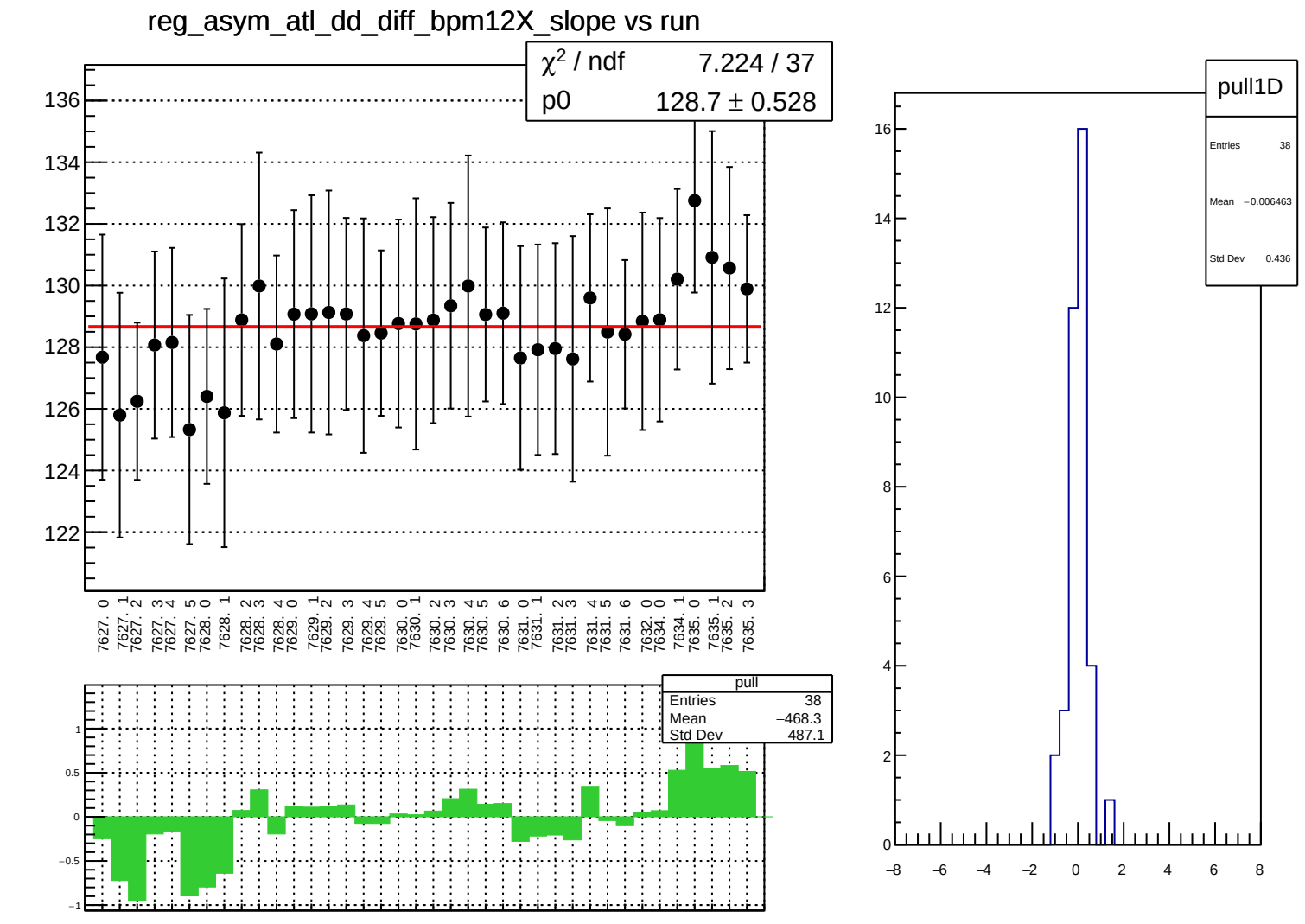

pull1D
Entries 38
Mean −0.01248
Std Dev 0.224
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

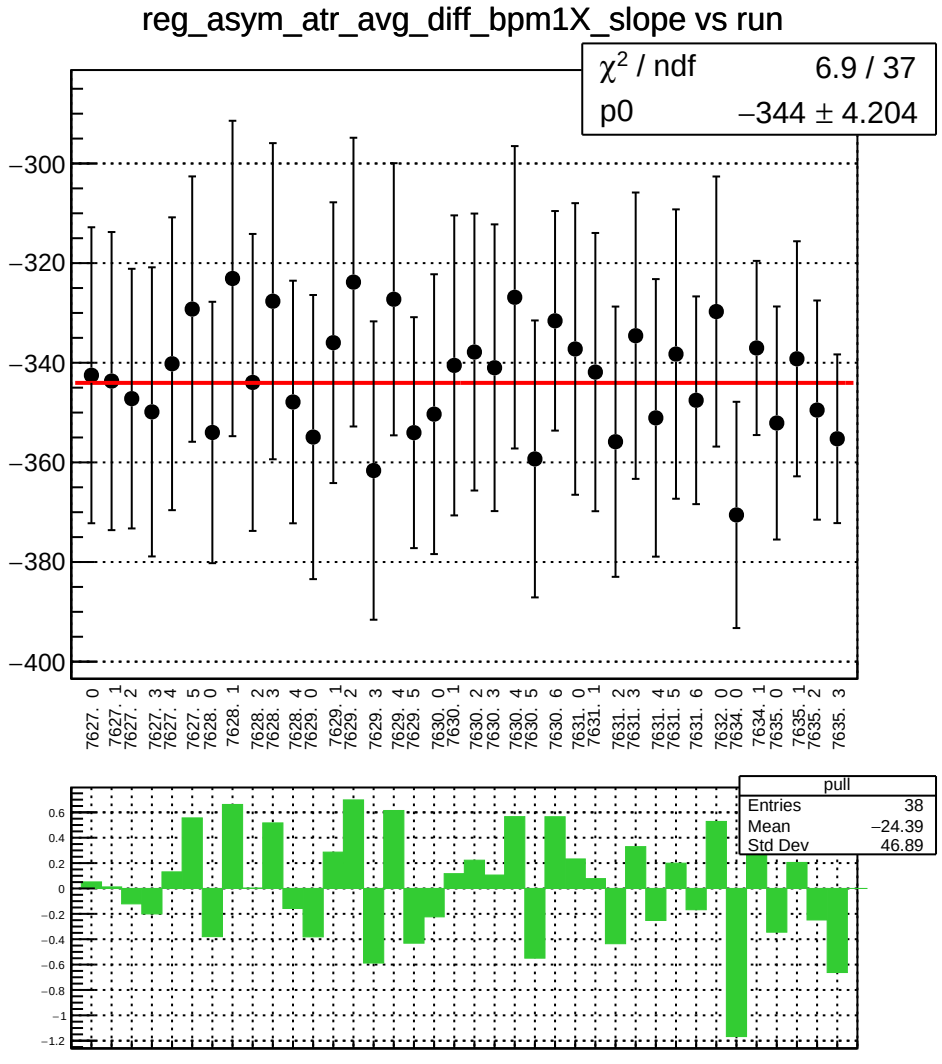

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.645 / 37
p0 −223.6 ± 3.286
pull
Entries 38
Mean 33.06
Std Dev 12.96

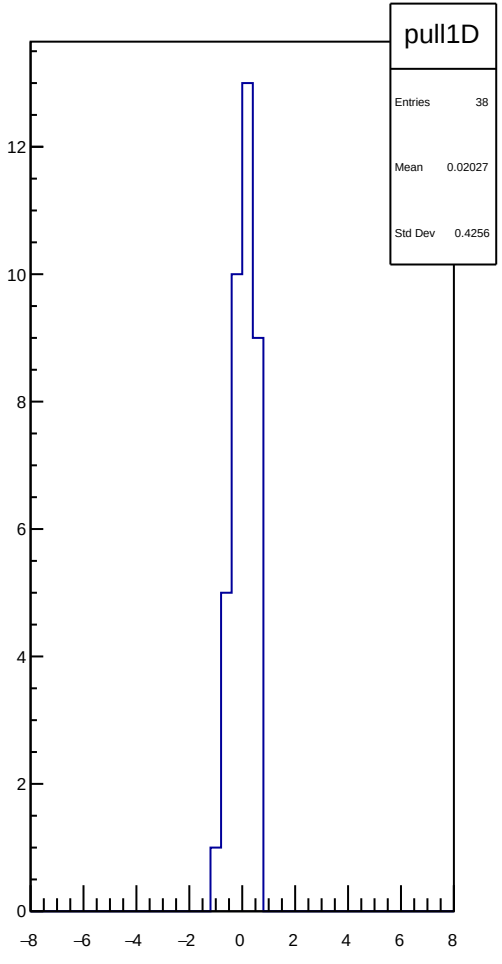

pull1D
Entries 38
Mean −0.01157
Std Dev 0.2636

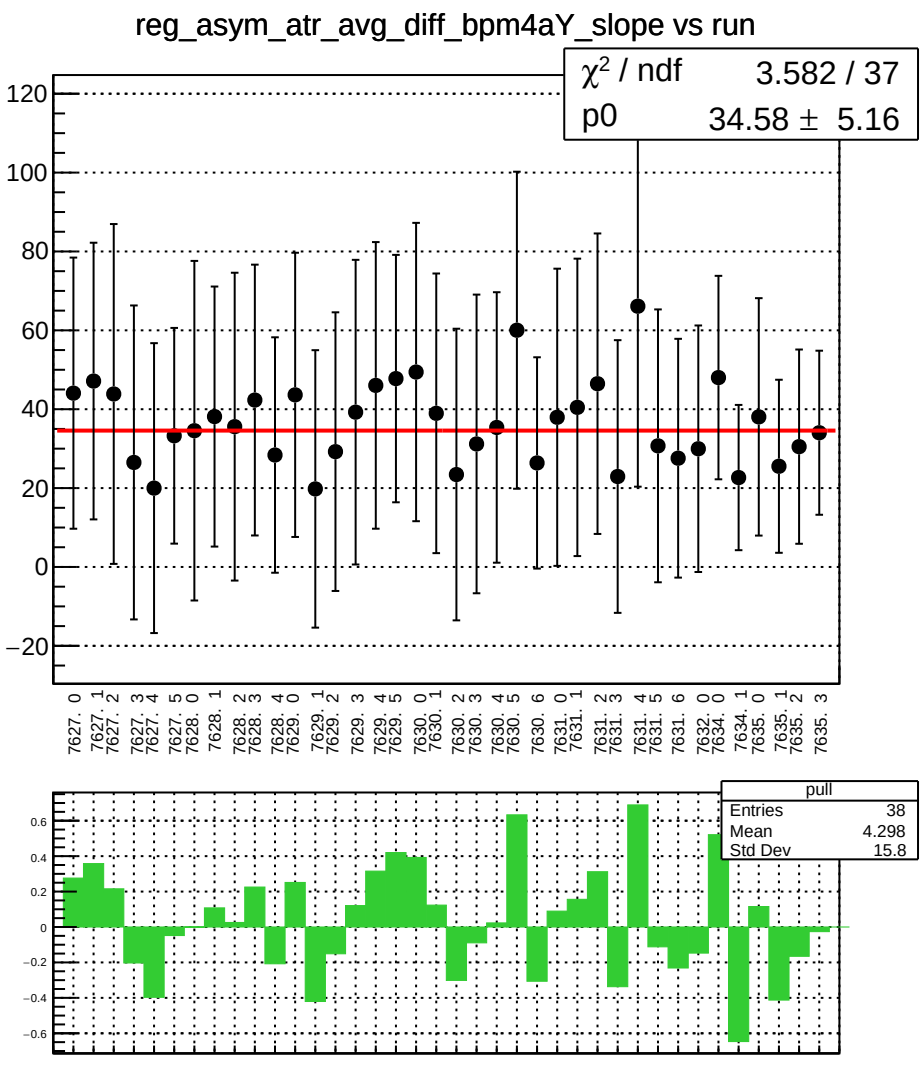

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.876 / 37
p0 −40.74 ± 7.52
pull
Entries 38
Mean −34.54
Std Dev 52.23

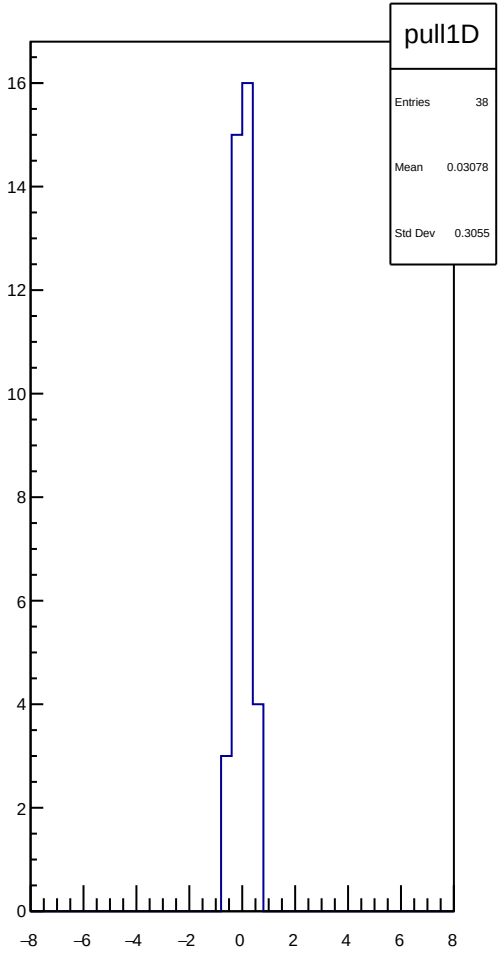

pull1D
Entries 38
Mean 0.009522
Std Dev 0.222

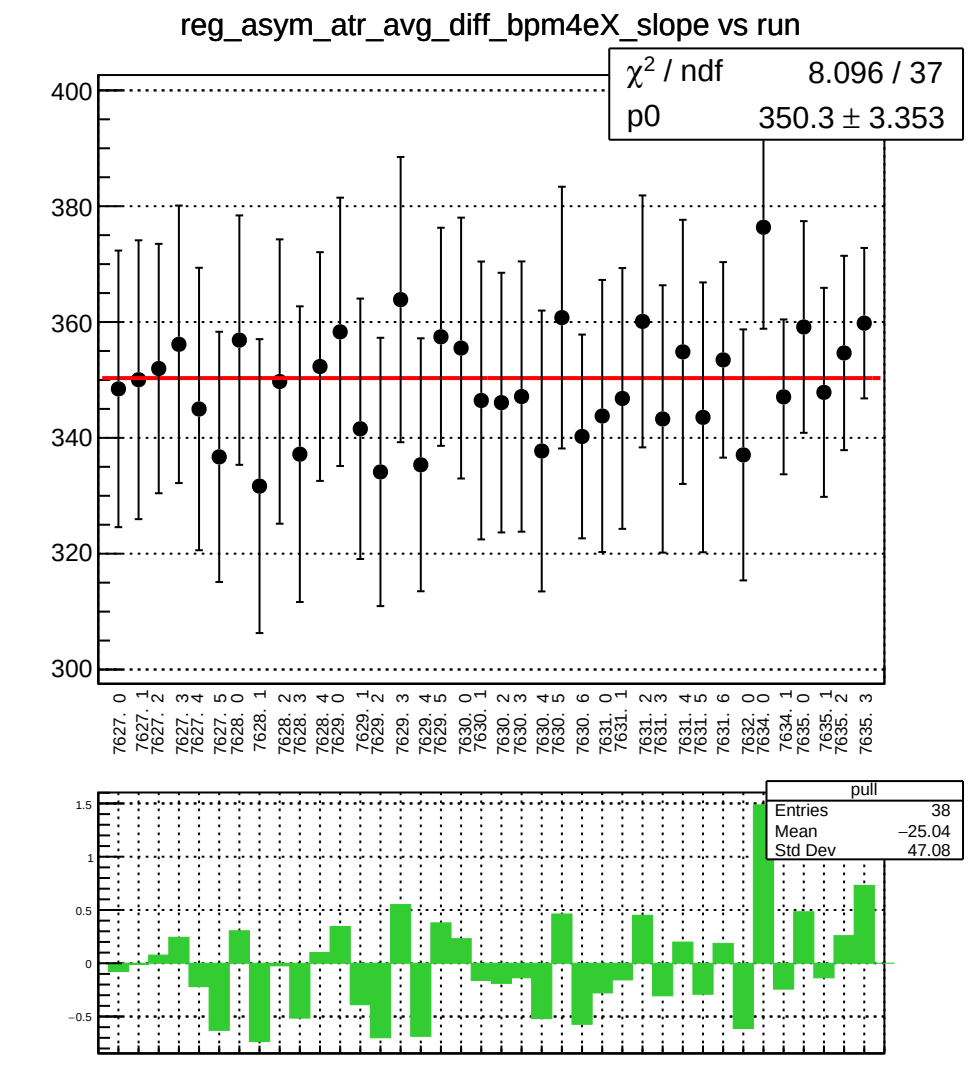

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 7.224 / 37
p0 128.7 ± 0.528
136
134
132
130
128
126
124
122
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 4
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −468.3
Std Dev 487.1
1
0.5
0
−0.5
−1
pull1D
Entries 38
Mean −0.006463
Std Dev 0.436
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

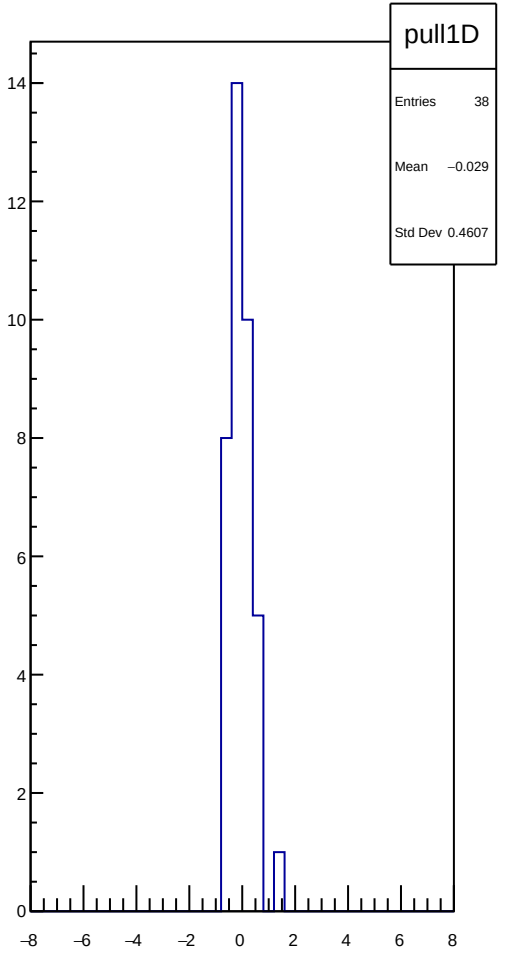

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 6.9 / 37
p0 −344 ± 4.204
pull
Entries 38
Mean −24.39
Std Dev 46.89

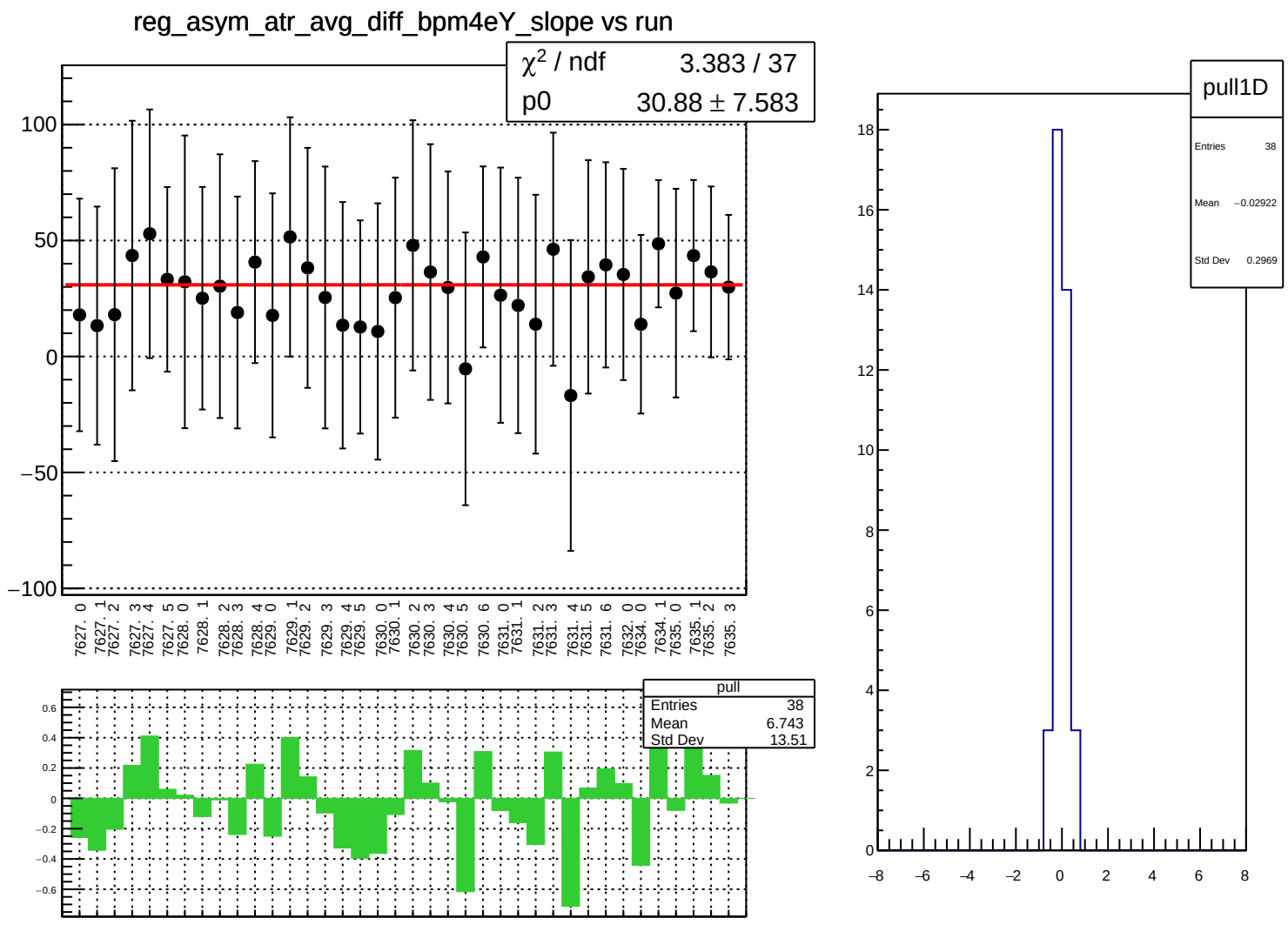

pull1D
Entries 38
Mean 0.02027
Std Dev 0.4256

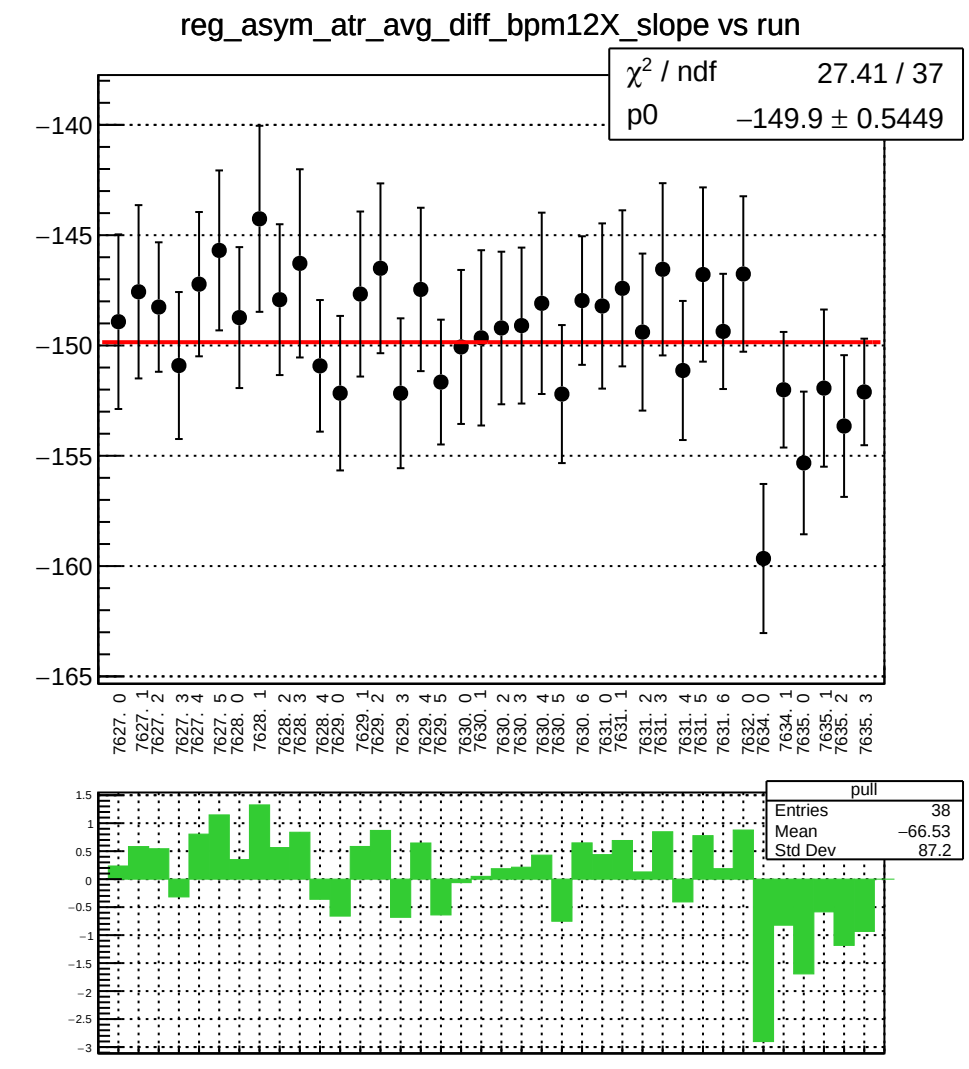

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.582 / 37
p0 34.58 ± 5.16
pull
Entries 38
Mean 4.298
Std Dev 15.8

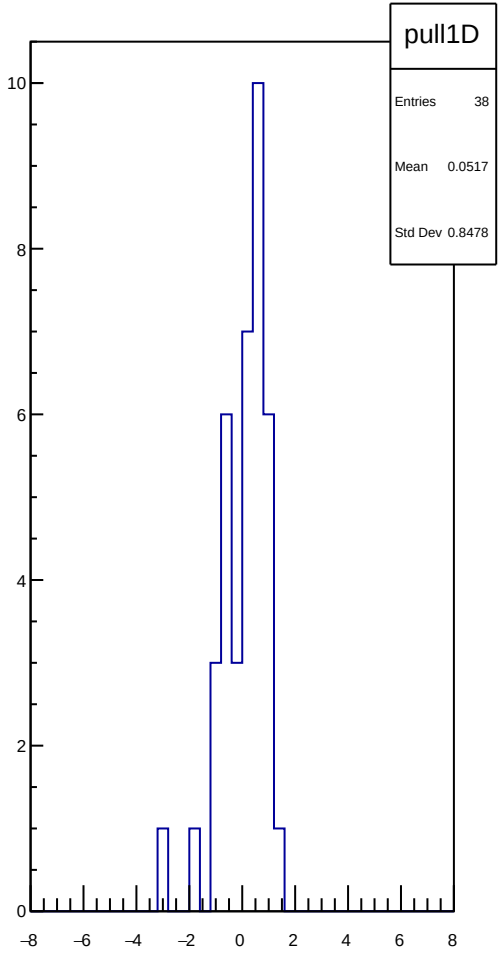

pull1D
Entries 38
Mean 0.03078
Std Dev 0.3055

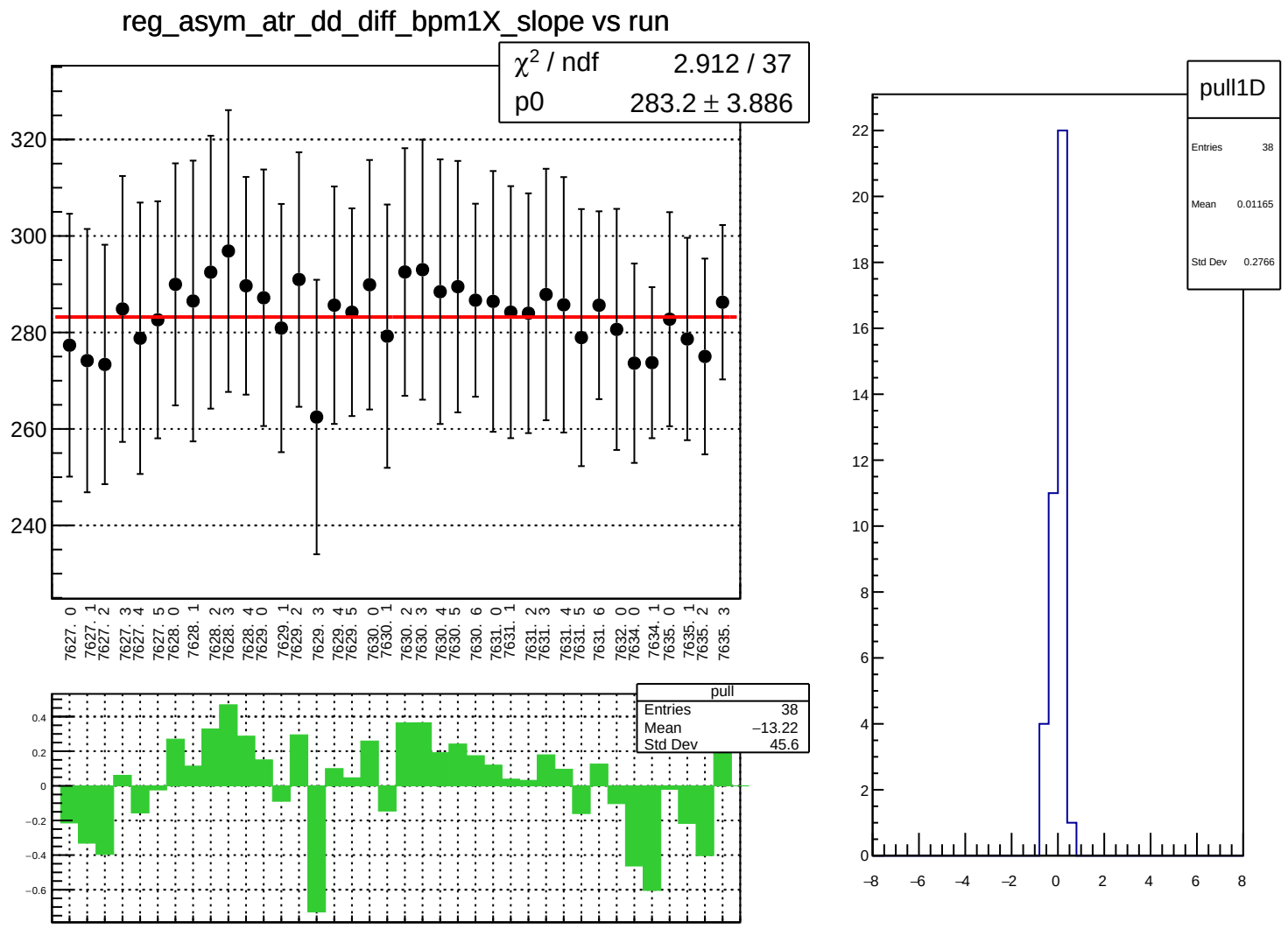

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 8.096 / 37
p0 350.3 ± 3.353
400
380
360
340
320
300
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −25.04
Std Dev 47.08
1.5
1
0.5
0
−0.5

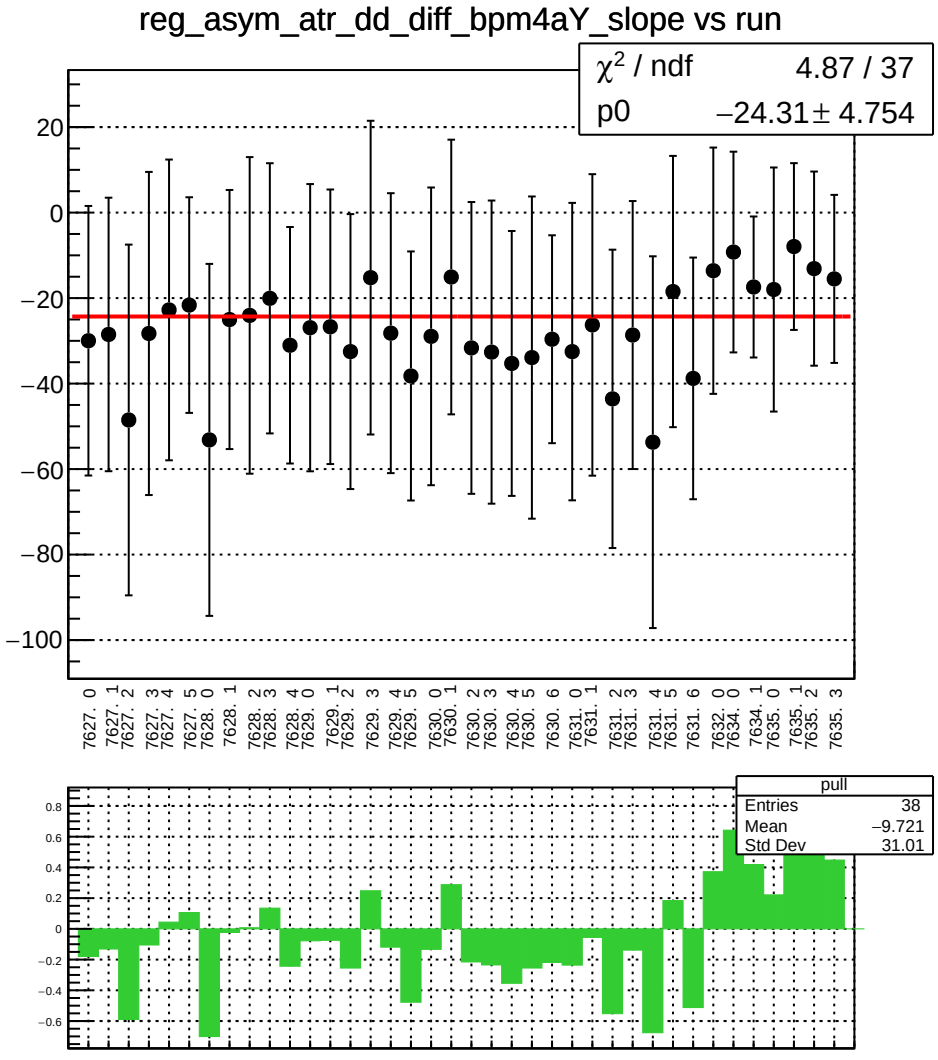

pull1D
Entries 38
Mean −0.029
Std Dev 0.4607
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

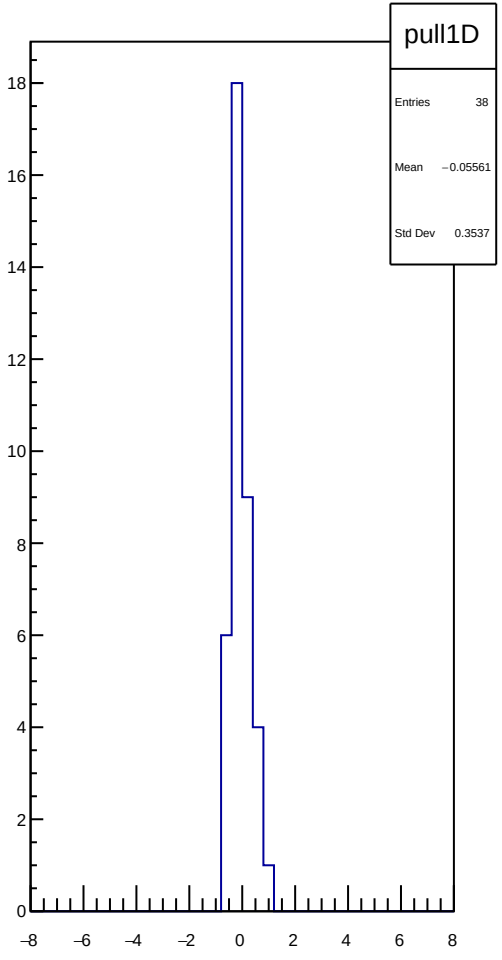

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.383 / 37
p0 30.88 ± 7.583
100
50
0
−50
−100
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 6.743
Std Dev 13.51
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 38
Mean −0.02922
Std Dev 0.2969
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

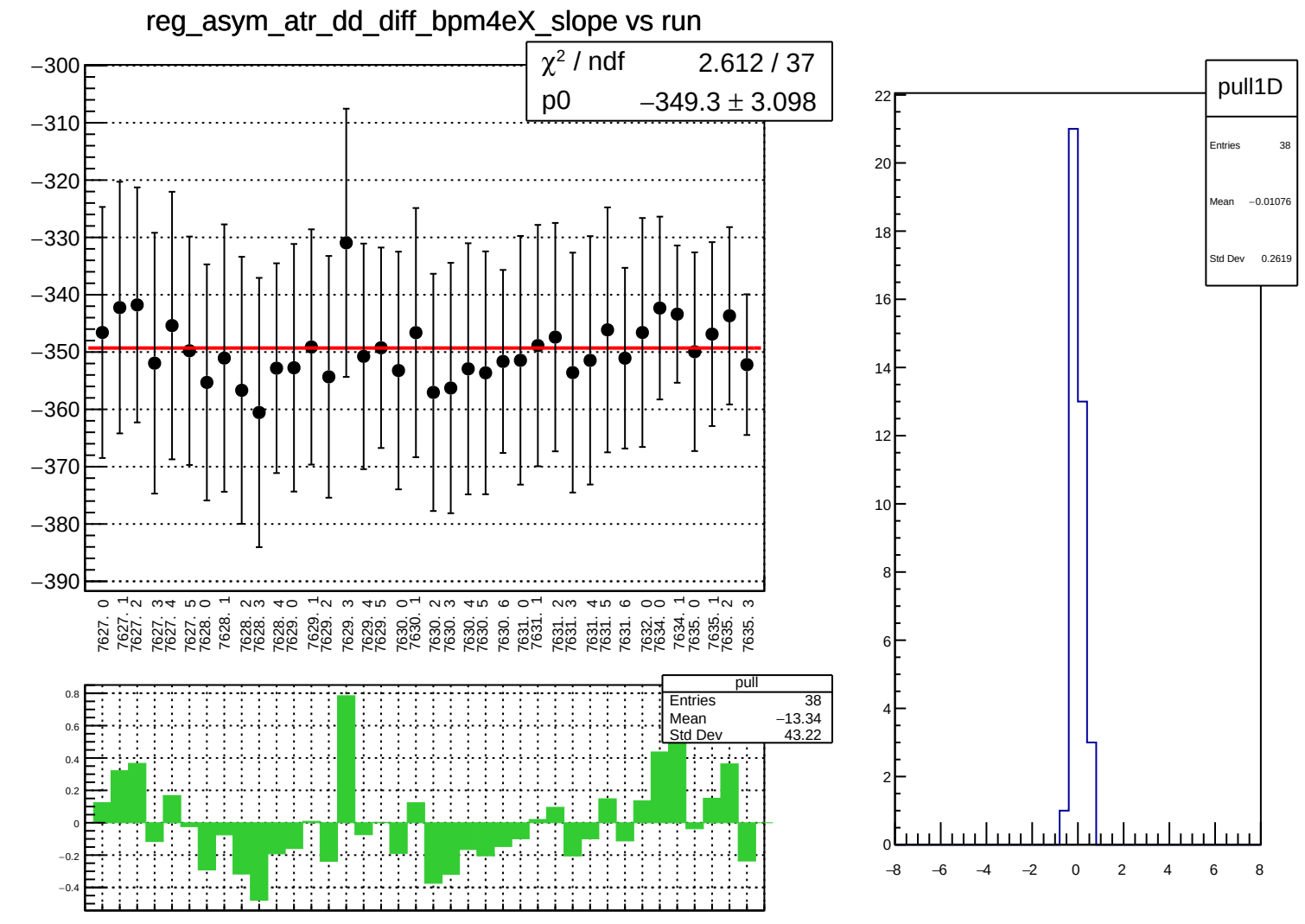

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 27.41 / 37
p0 −149.9 ± 0.5449
pull
Entries 38
Mean −66.53
Std Dev 87.2

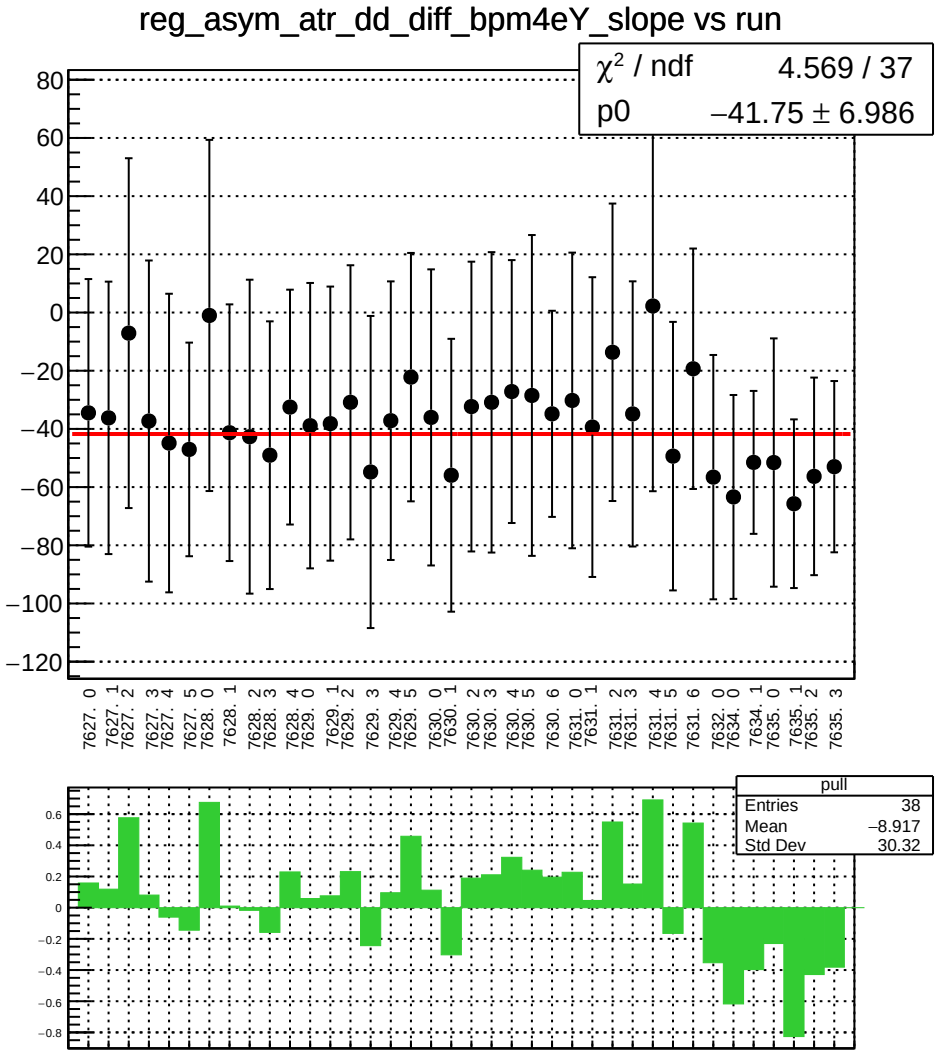

pull1D
Entries 38
Mean 0.0517
Std Dev 0.8478

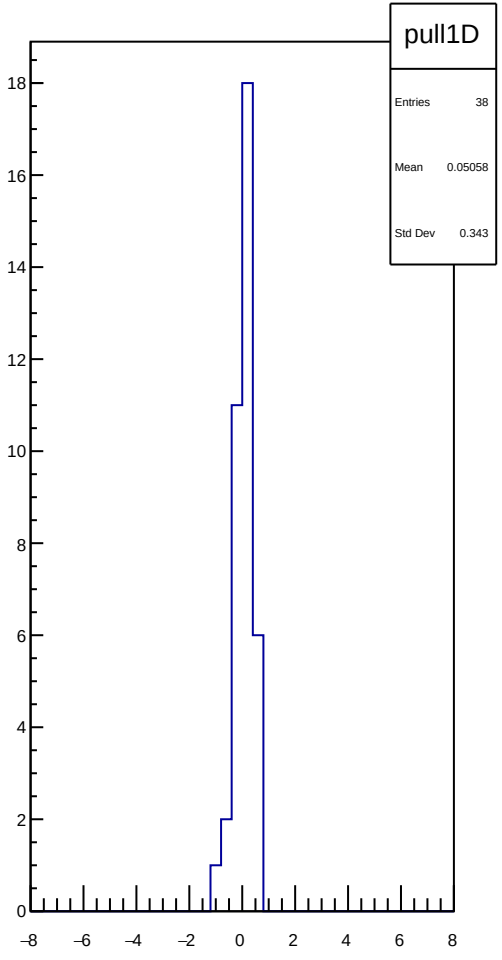

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 2.912 / 37
p0 283.2 ± 3.886
320
300
280
260
240
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −13.22
Std Dev 45.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 38
Mean 0.01165
Std Dev 0.2766
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

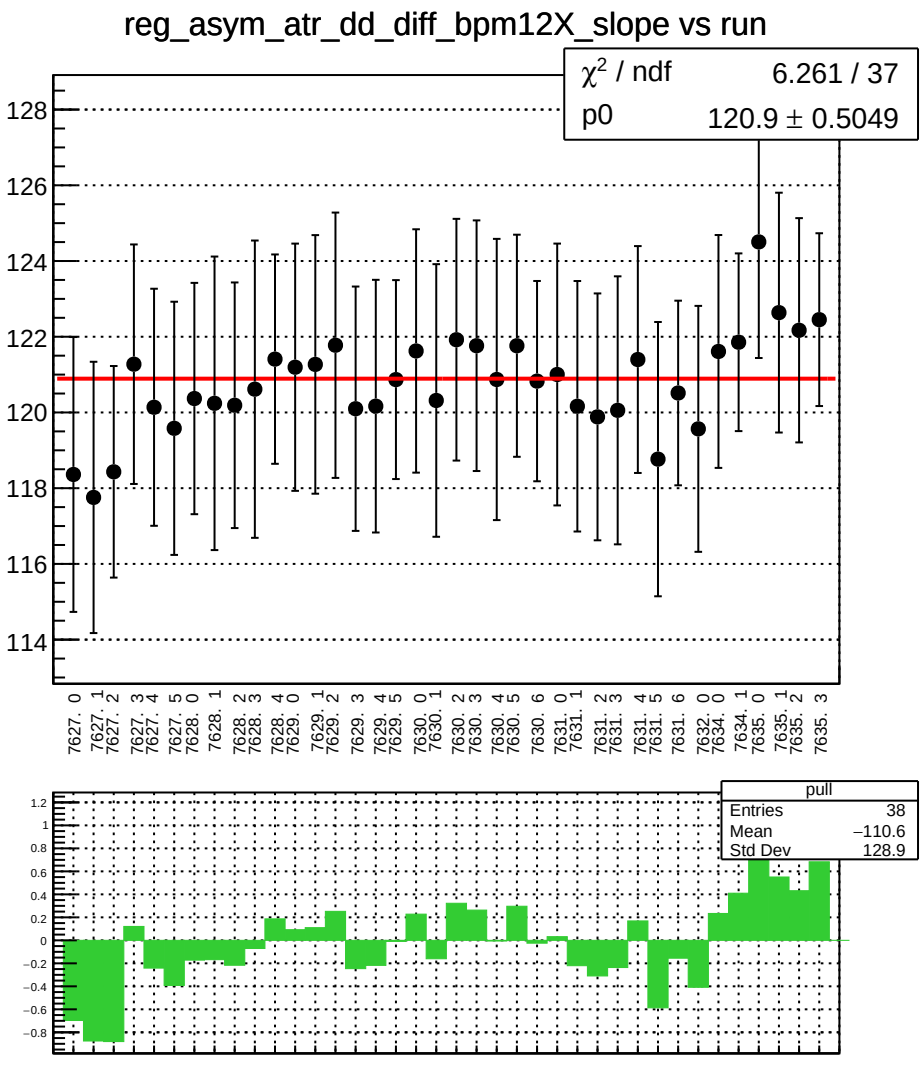

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.87 / 37
p0 −24.31 ± 4.754
20
0
−20
−40
−60
−80
−100
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −9.721
Std Dev 31.01
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

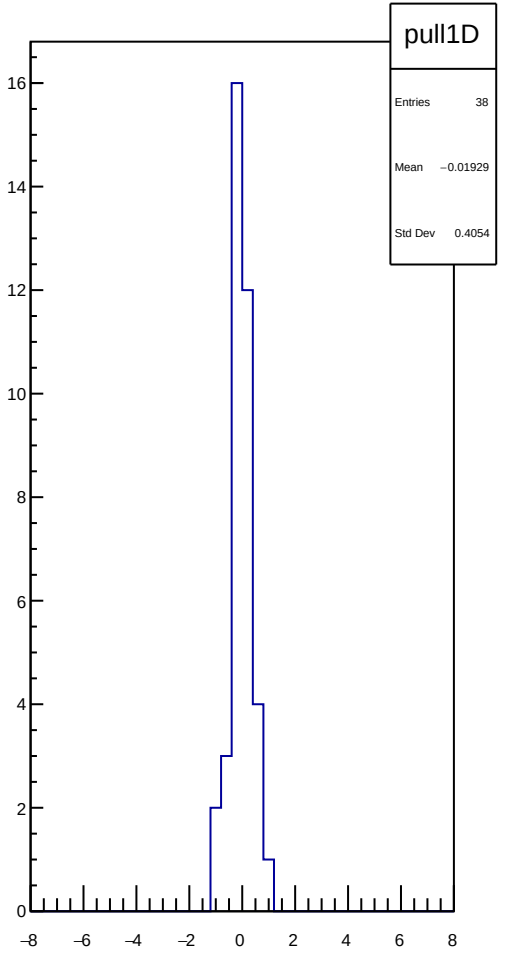

pull1D
Entries 38
Mean −0.05561
Std Dev 0.3537
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

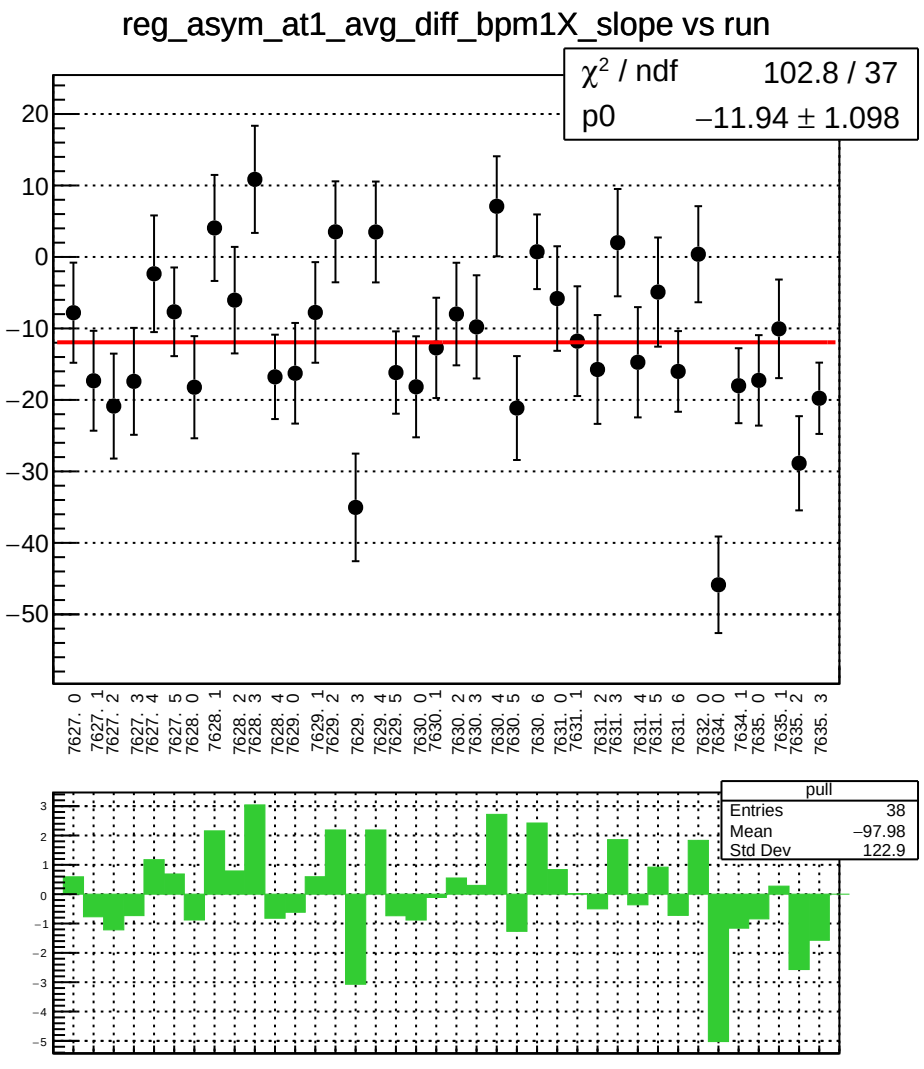

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.612 / 37
p0 −349.3 ± 3.098
pull
Entries 38
Mean −13.34
Std Dev 43.22
pull1D
Entries 38
Mean −0.01076
Std Dev 0.2619

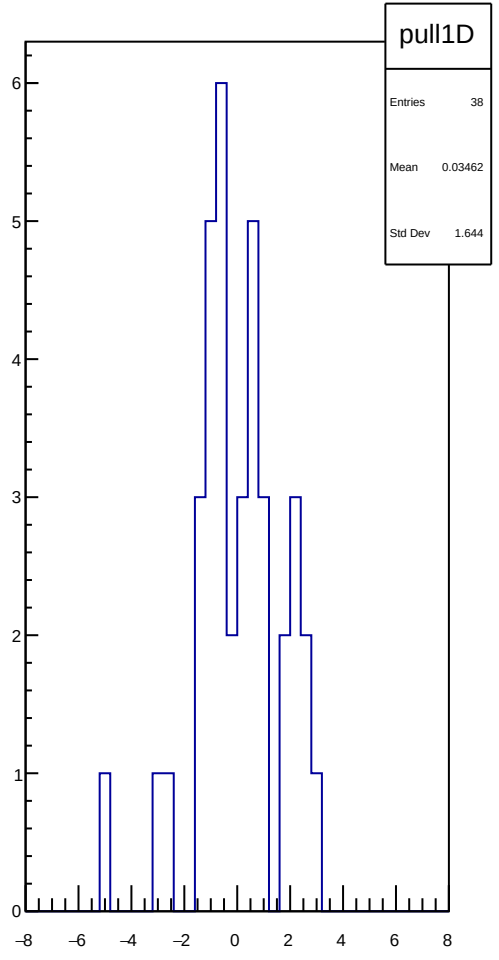

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.569 / 37
p0 −41.75 ± 6.986
pull
Entries 38
Mean −8.917
Std Dev 30.32

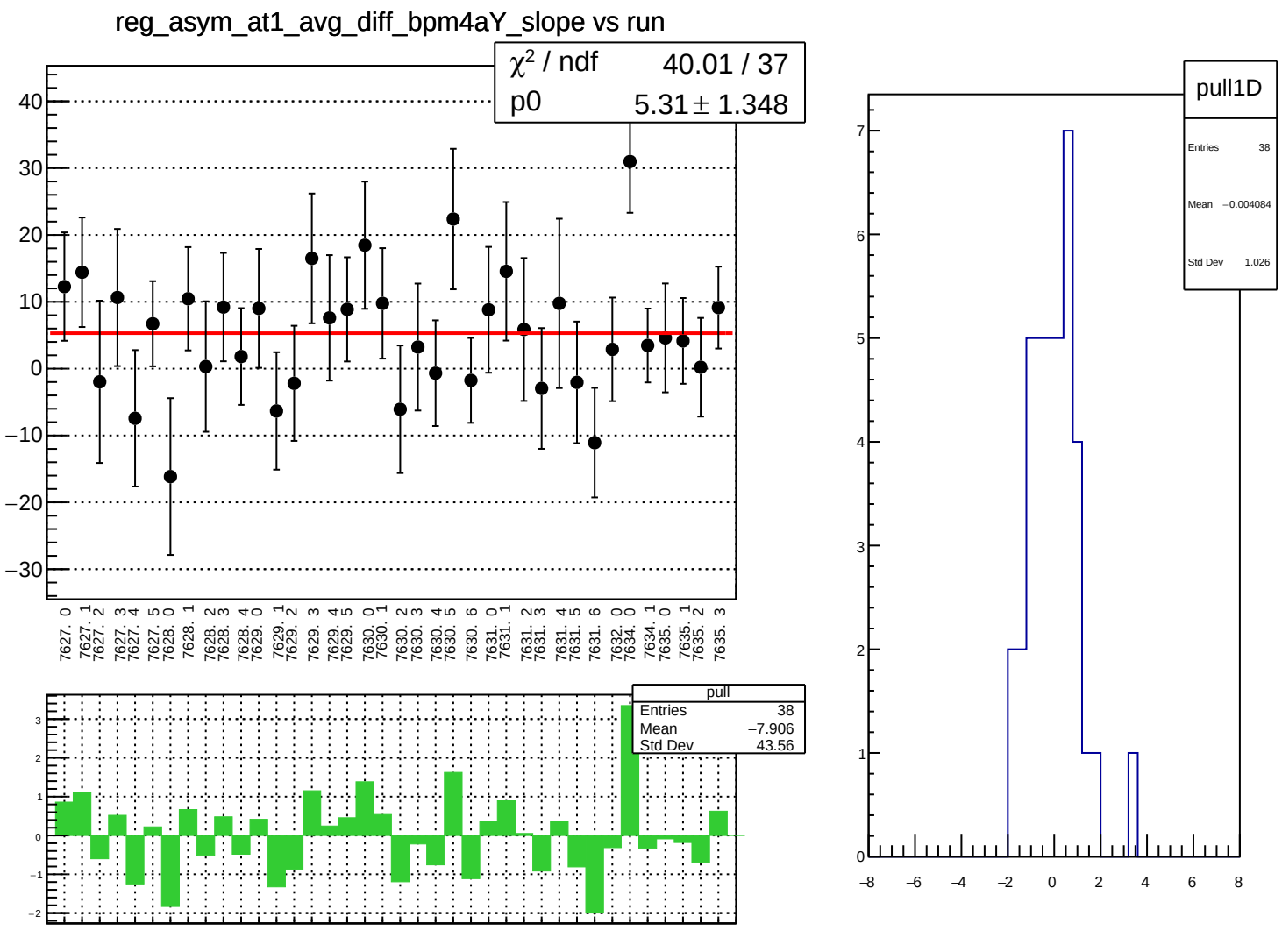

pull1D
Entries 38
Mean 0.05058
Std Dev 0.343

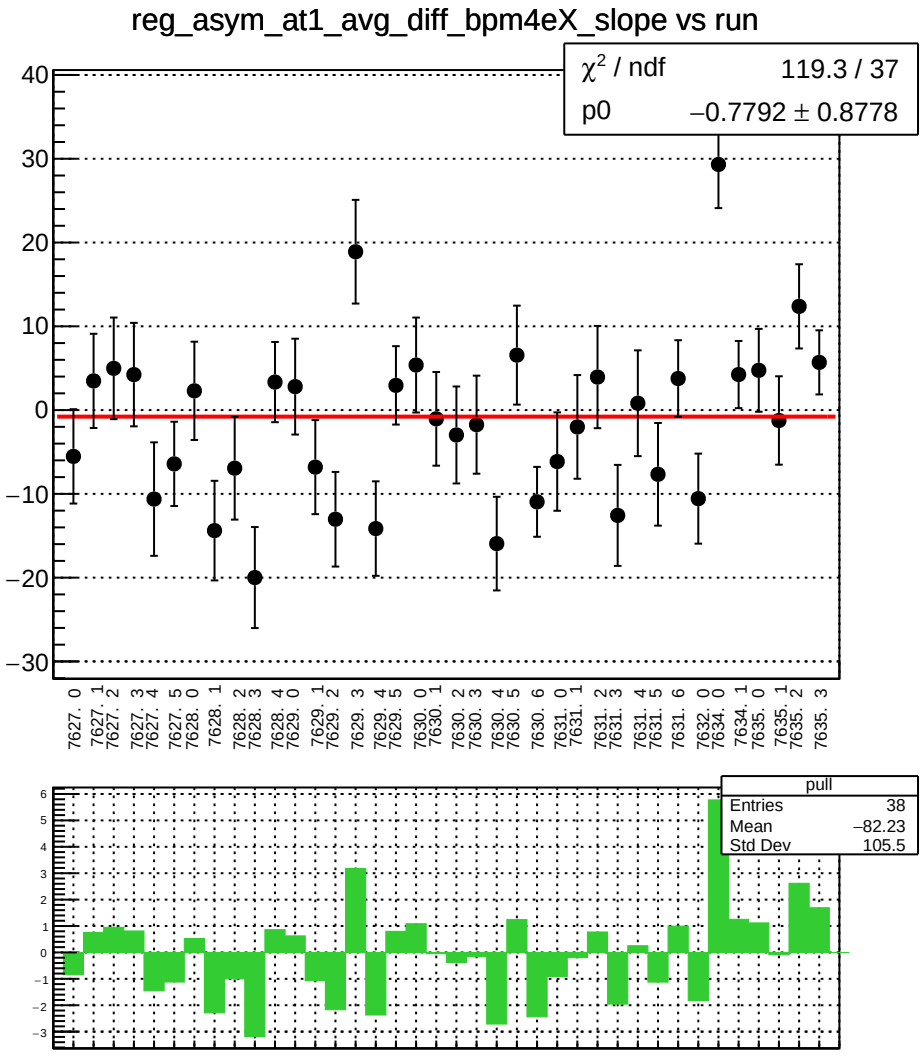

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 6.261 / 37
p0 120.9 ± 0.5049
128
126
124
122
120
118
116
114
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −110.6
Std Dev 128.9
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

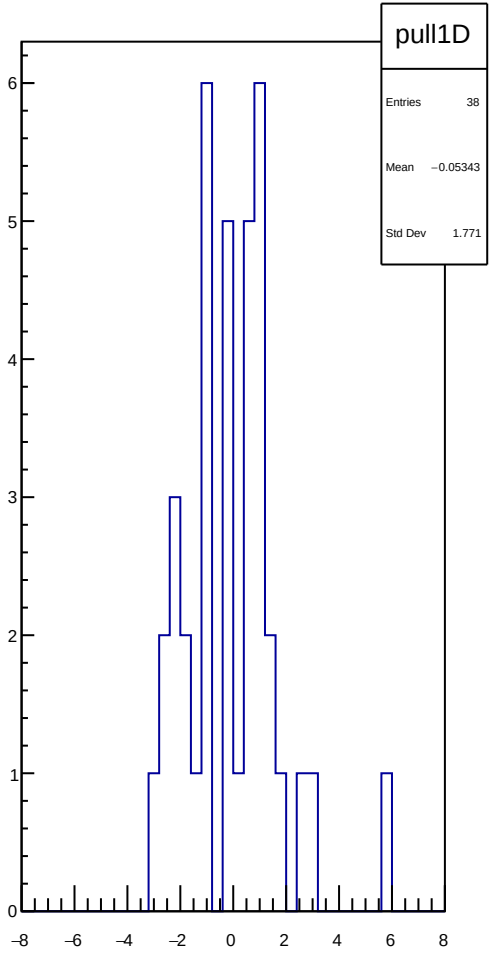

pull1D
Entries 38
Mean −0.01929
Std Dev 0.4054
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

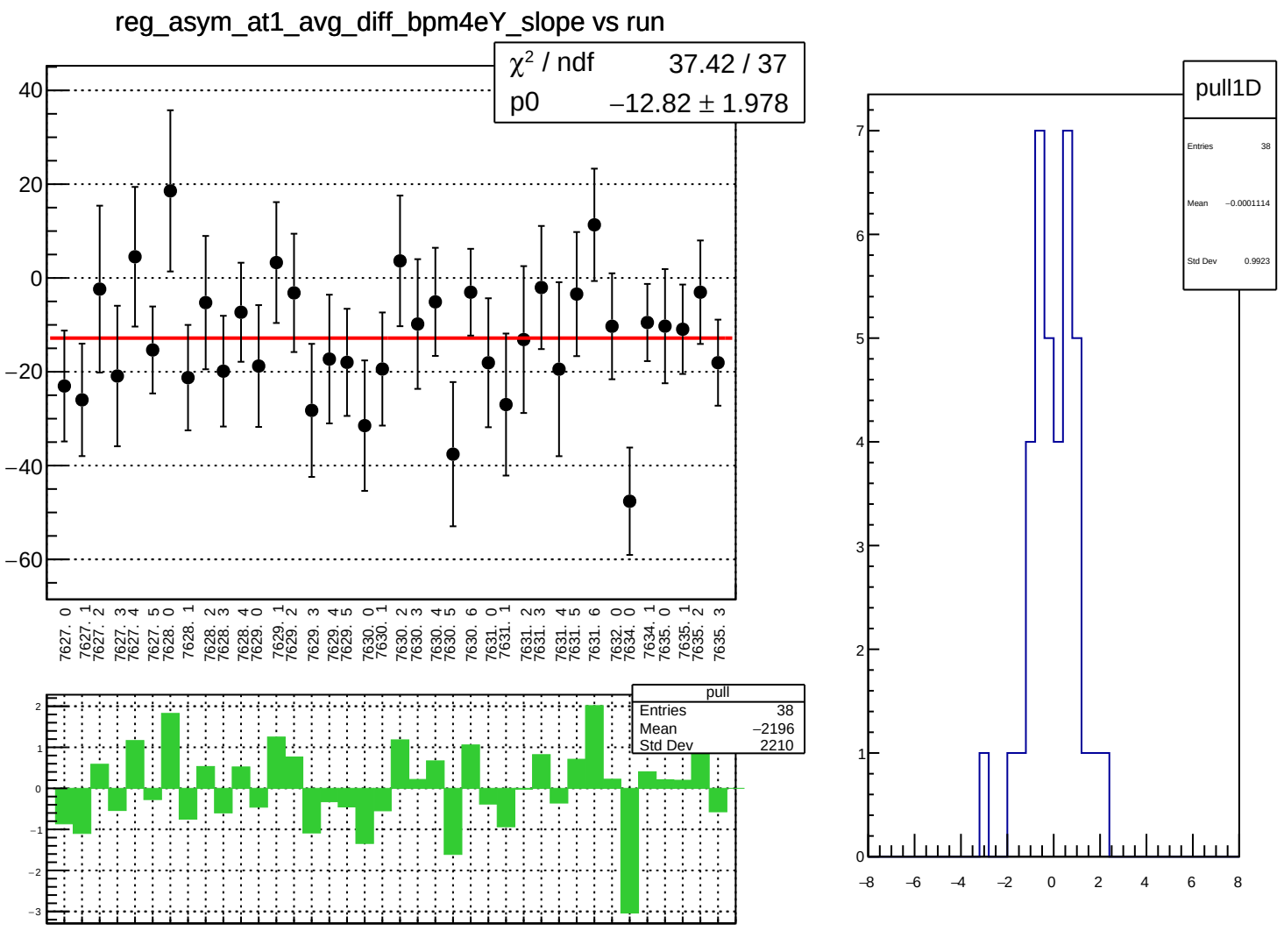

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 102.8 / 37
p0 −11.94 ± 1.098
pull
Entries 38
Mean −97.98
Std Dev 122.9

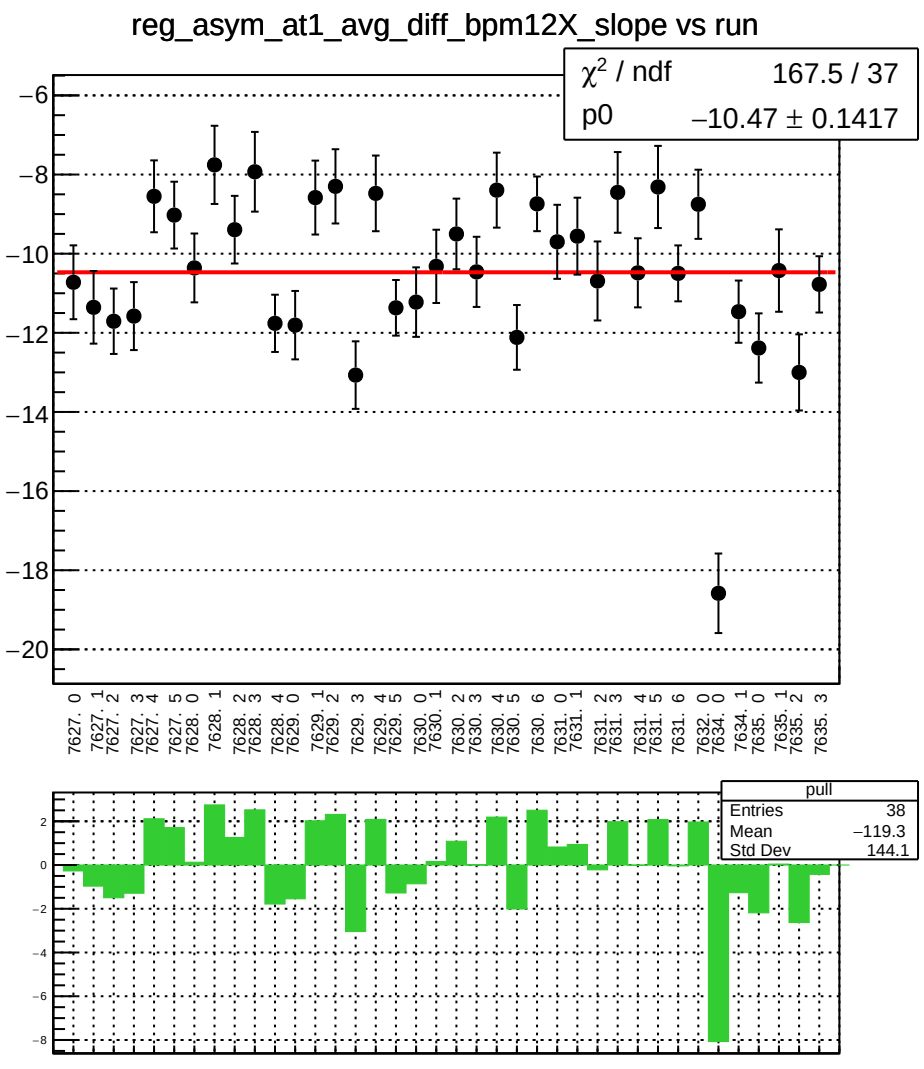

pull1D
Entries 38
Mean 0.03462
Std Dev 1.644

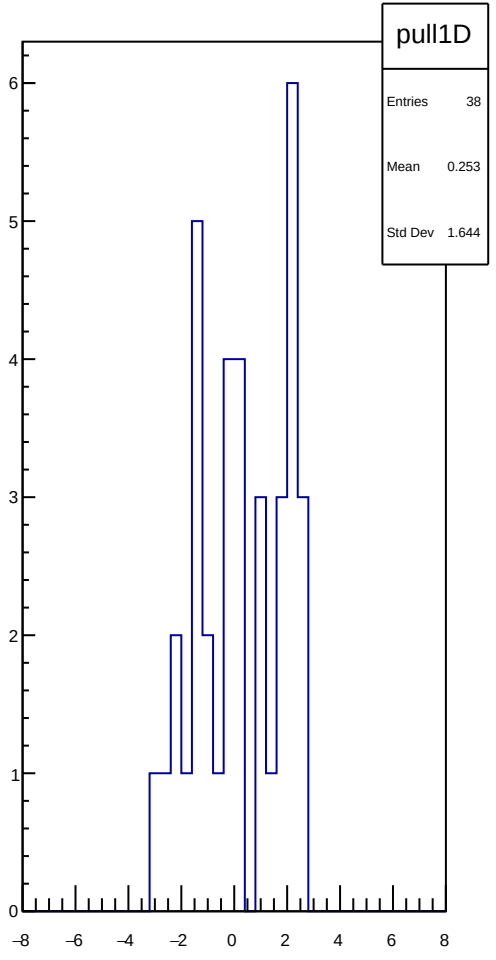

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 40.01 / 37
p0 5.31 ± 1.348
pull
Entries 38
Mean −7.906
Std Dev 43.56
pull1D
Entries 38
Mean −0.004084
Std Dev 1.026

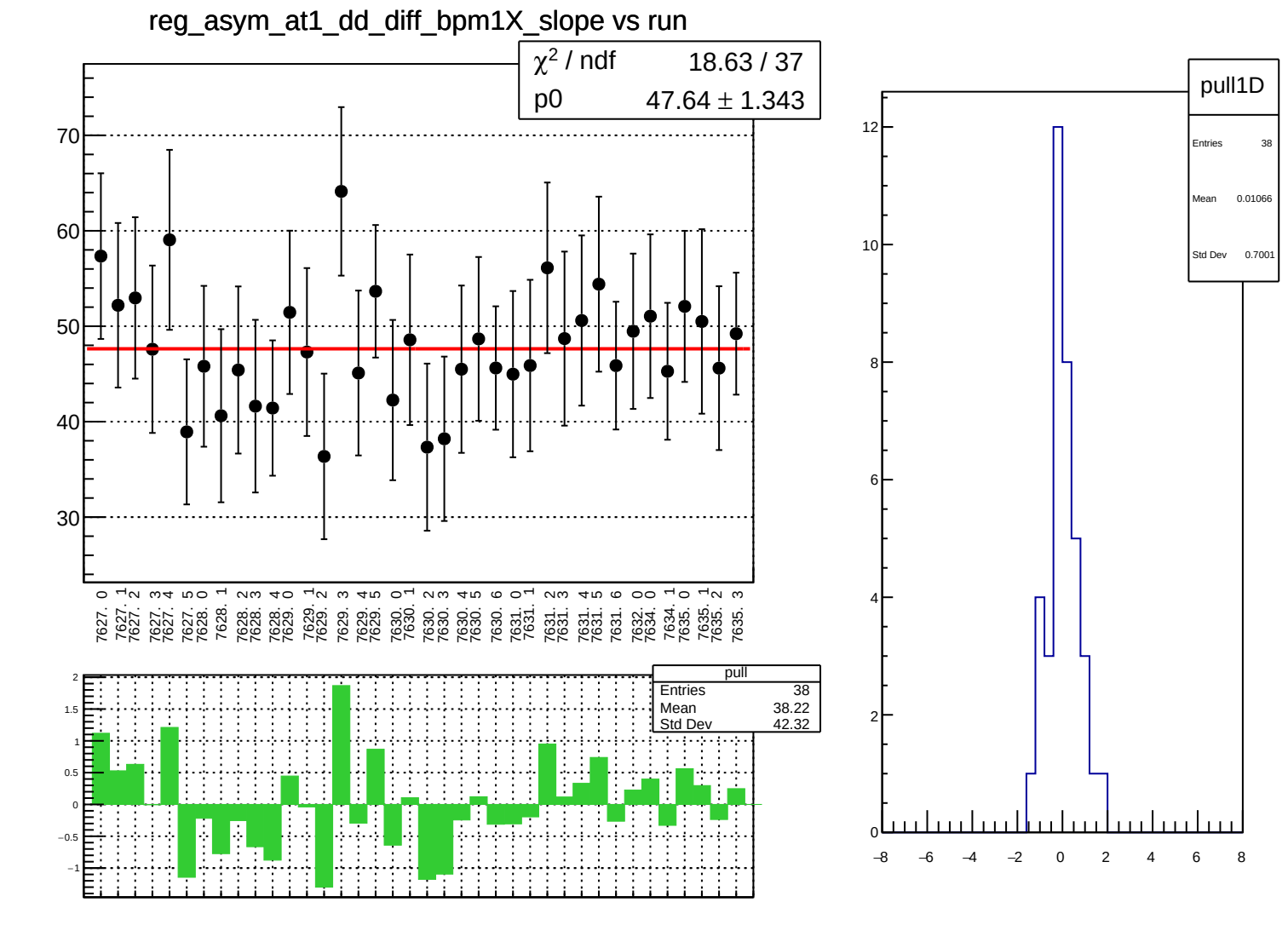

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 119.3 / 37
p0 −0.7792 ± 0.8778
pull
Entries 38
Mean −82.23
Std Dev 105.5

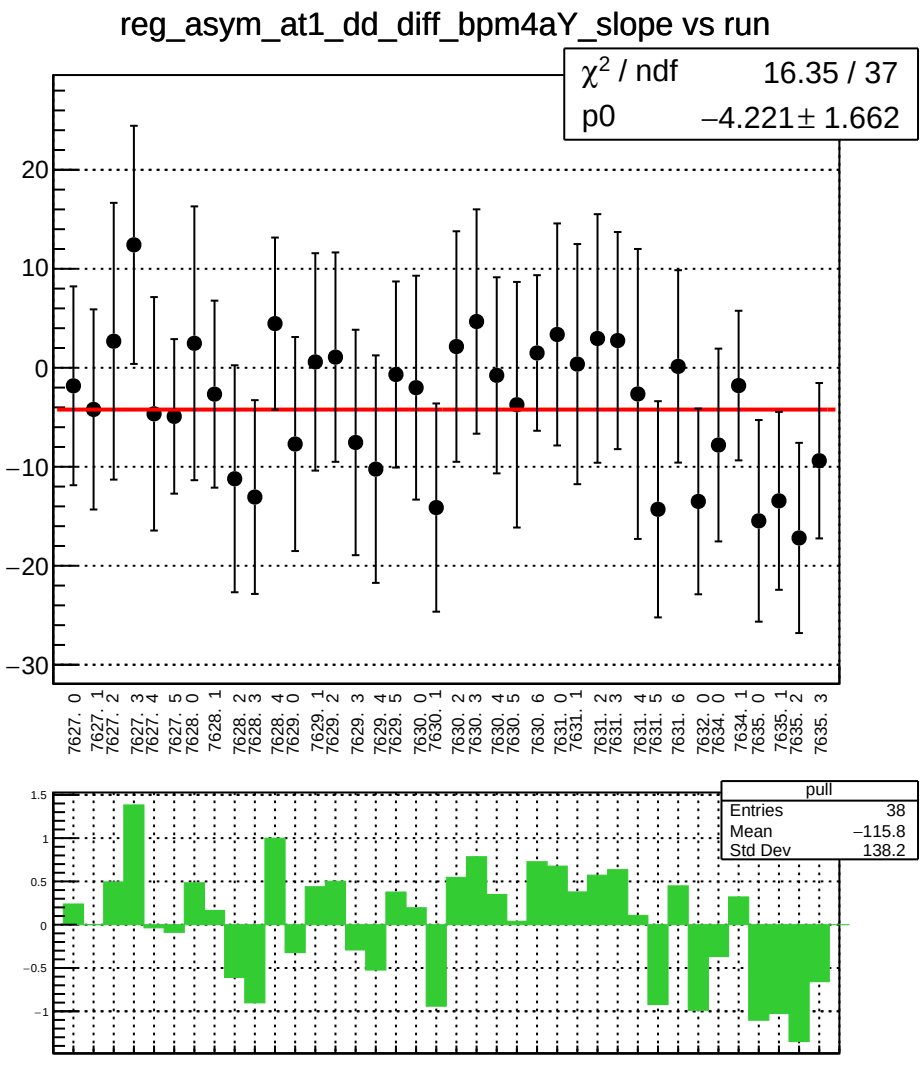

pull1D
Entries 38
Mean −0.05343
Std Dev 1.771

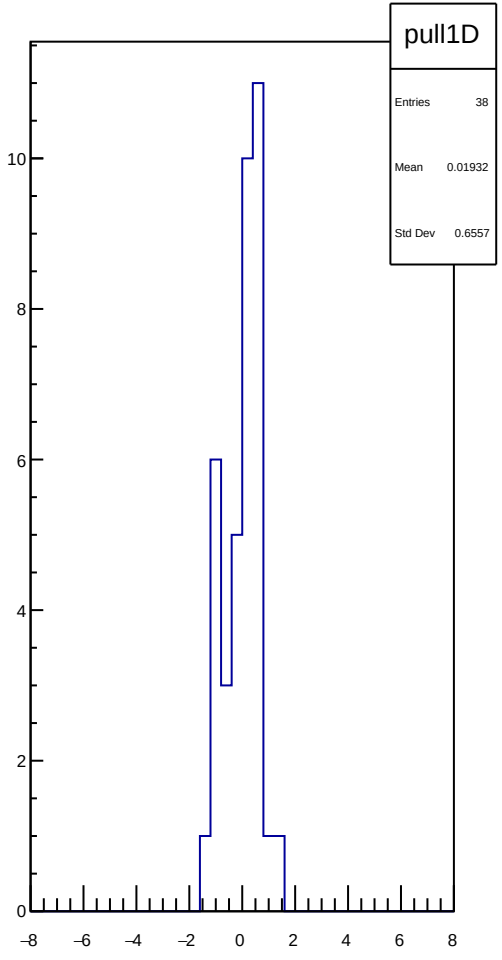

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 37.42 / 37
p0 −12.82 ± 1.978
40
20
0
−20
−40
−60
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −2196
Std Dev 2210
2
1
0
−1
−2
−3
pull1D
Entries 38
Mean −0.0001114
Std Dev 0.9923
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

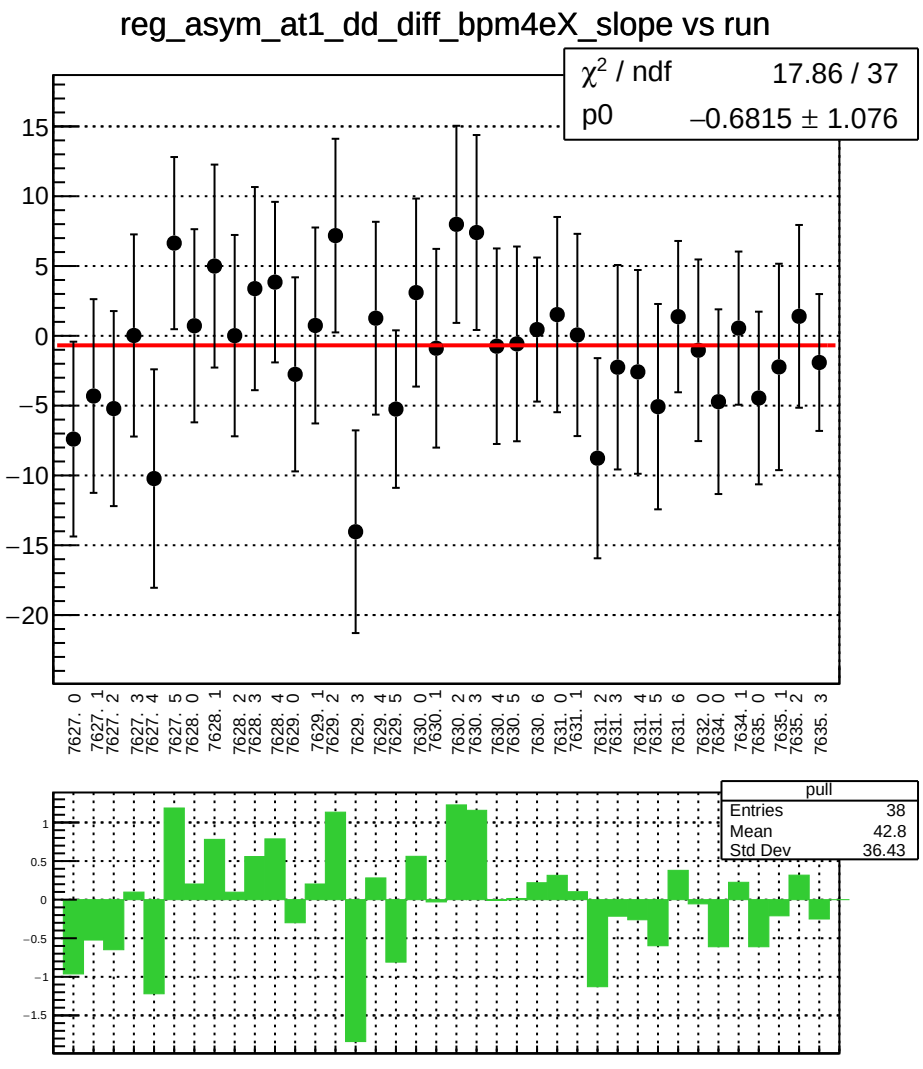

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 167.5 / 37
p0 −10.47 ± 0.1417
pull
Entries 38
Mean −119.3
Std Dev 144.1

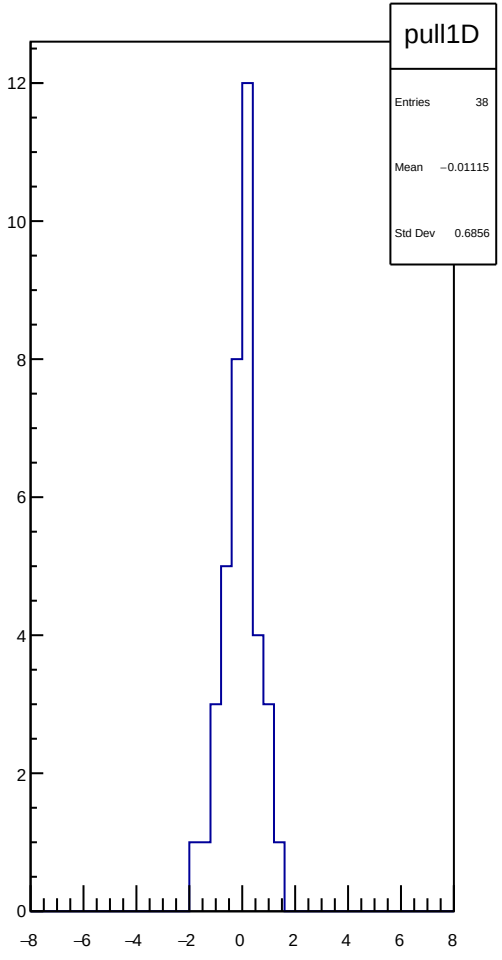

pull1D
Entries 38
Mean 0.253
Std Dev 1.644

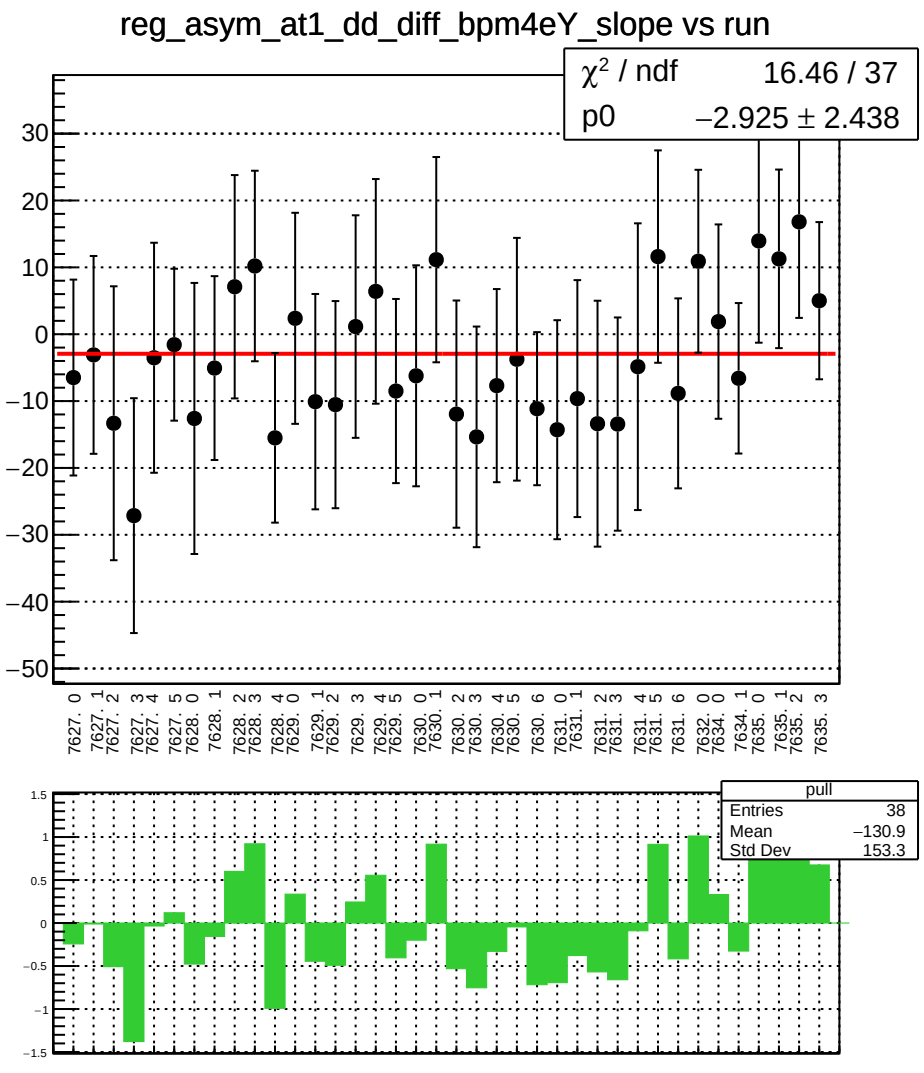

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ² / ndf 18.63 / 37
p0 47.64 ± 1.343
70
60
50
40
30
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 4
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 38.22
Std Dev 42.32
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 38
Mean 0.01066
Std Dev 0.7001
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

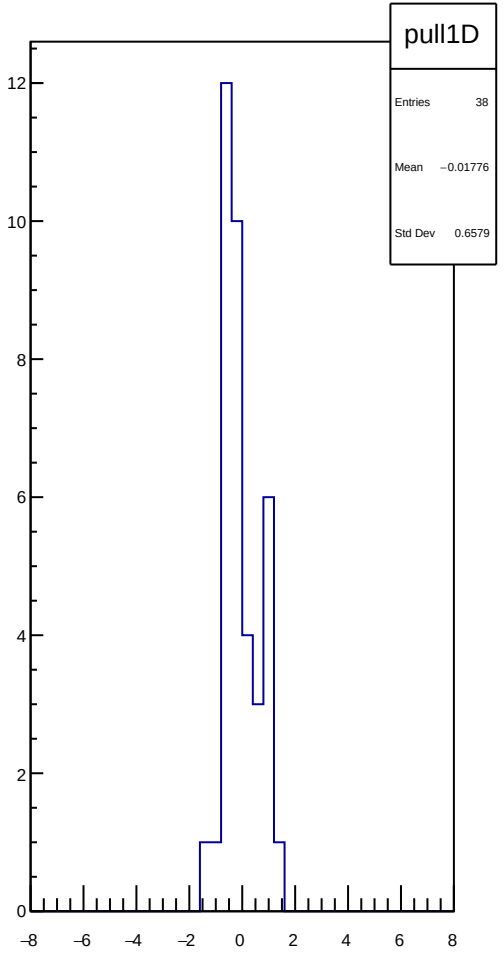

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 16.35 / 37
p0 −4.221 ± 1.662
20
10
0
−10
−20
−30
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 4
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −115.8
Std Dev 138.2
1.5
1
0.5
0
−0.5
−1

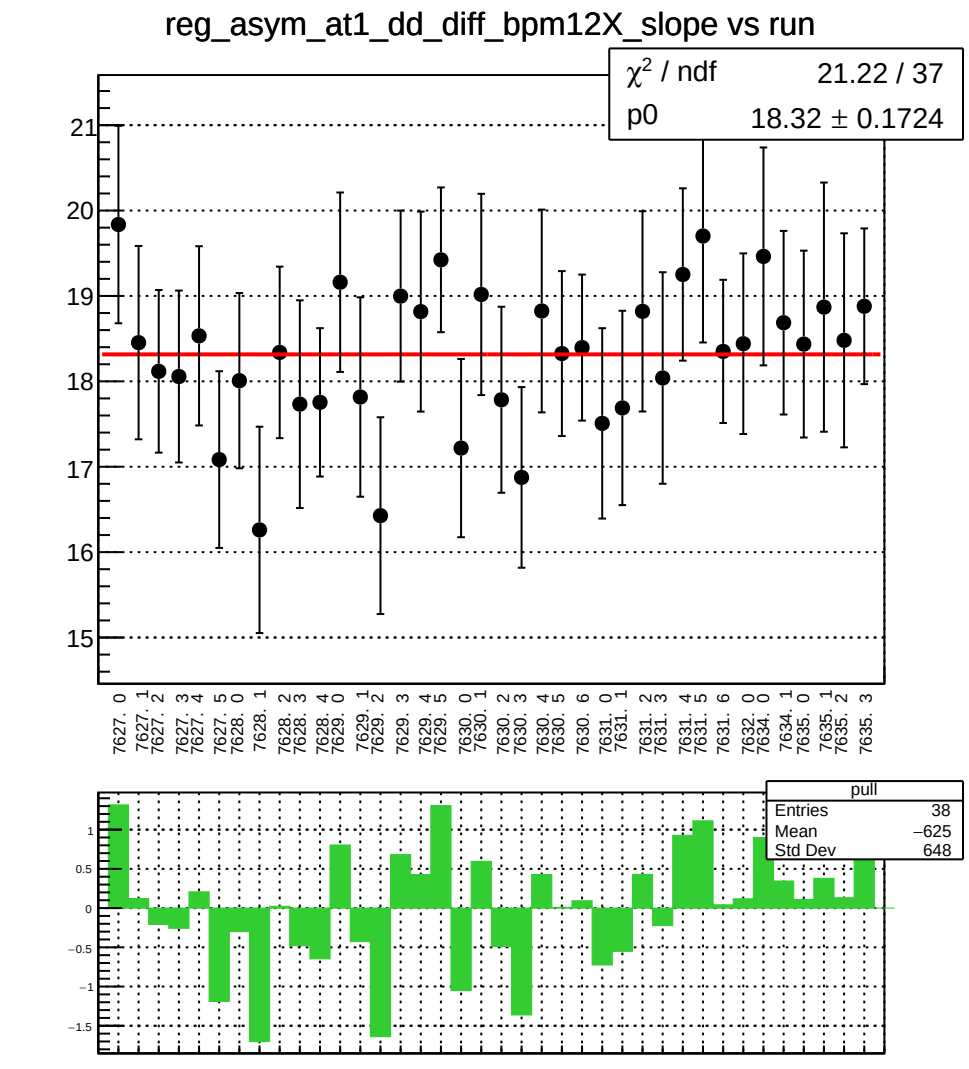

pull1D
Entries 38
Mean 0.01932
Std Dev 0.6557
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

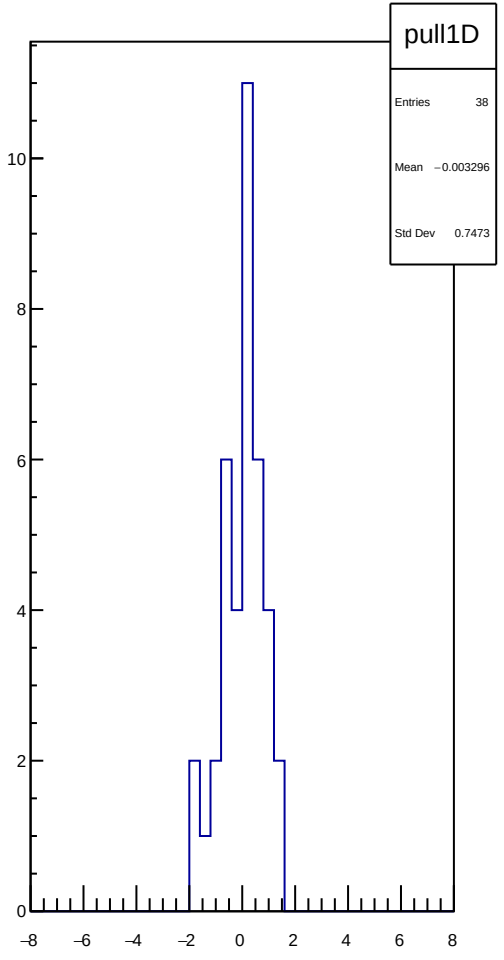

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 17.86 / 37
p0 −0.6815 ± 1.076
pull
Entries 38
Mean 42.8
Std Dev 36.43

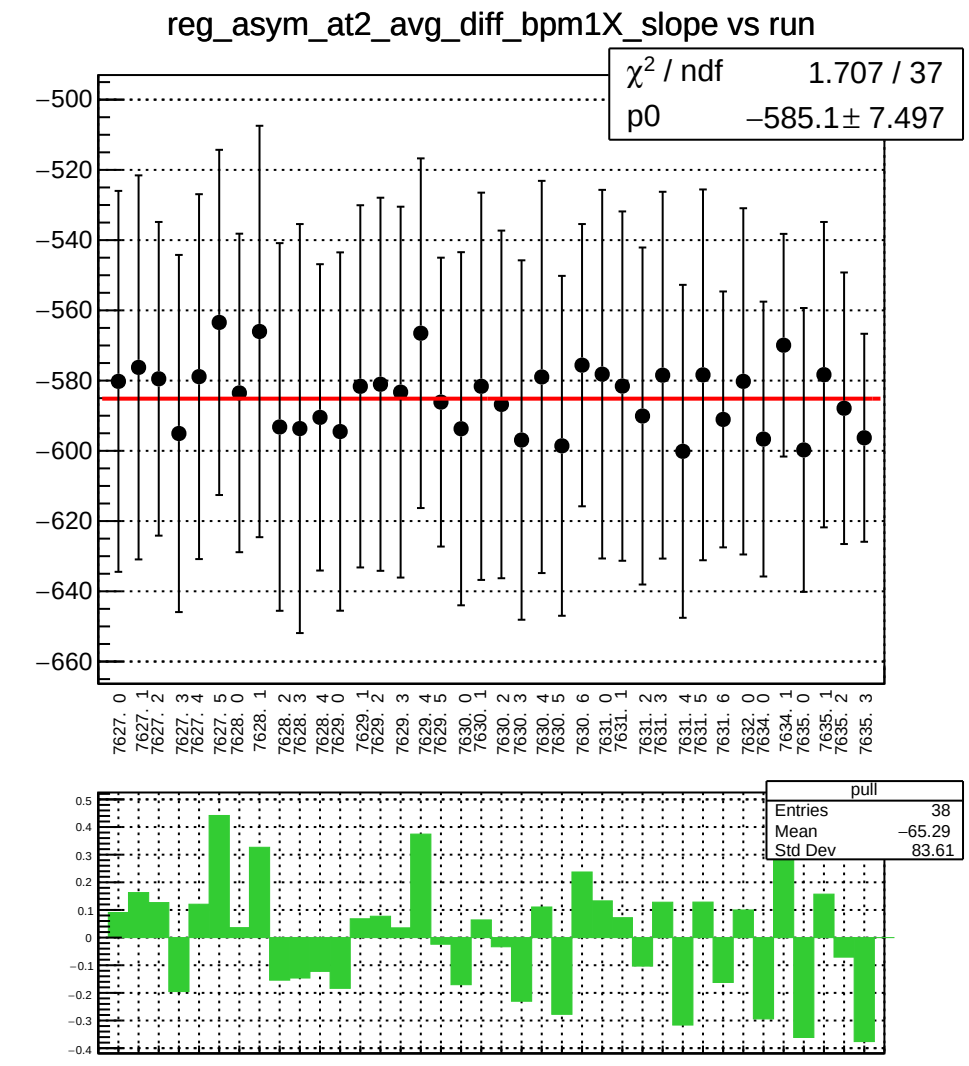

pull1D
Entries 38
Mean −0.01115
Std Dev 0.6856

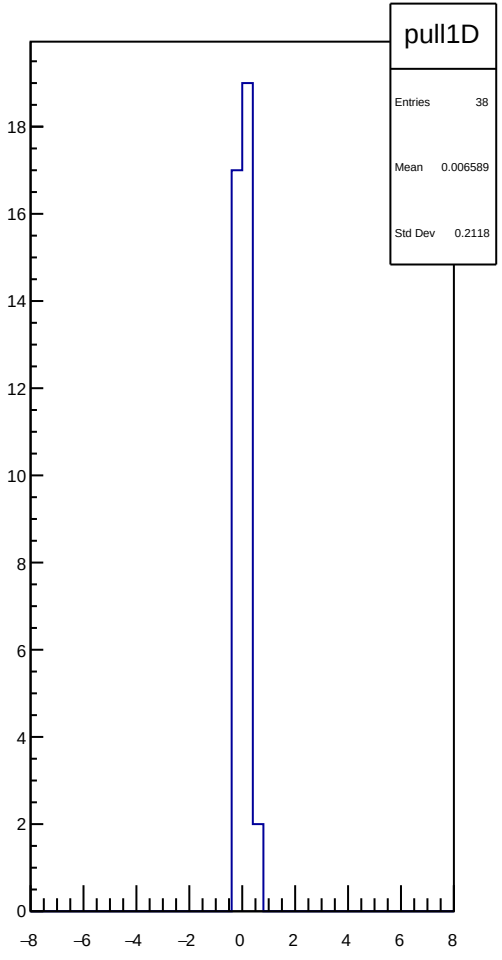

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 16.46 / 37
p0 −2.925 ± 2.438
pull
Entries 38
Mean −130.9
Std Dev 153.3

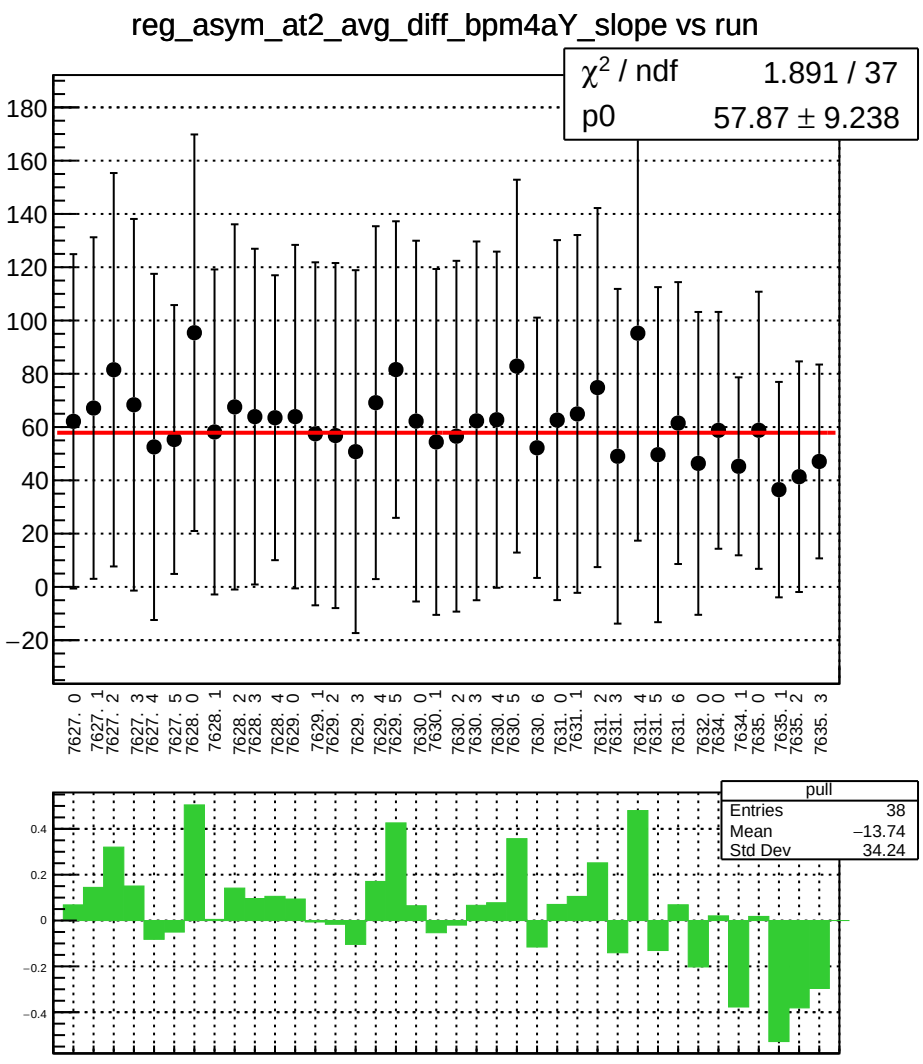

pull1D
Entries 38
Mean −0.01776
Std Dev 0.6579

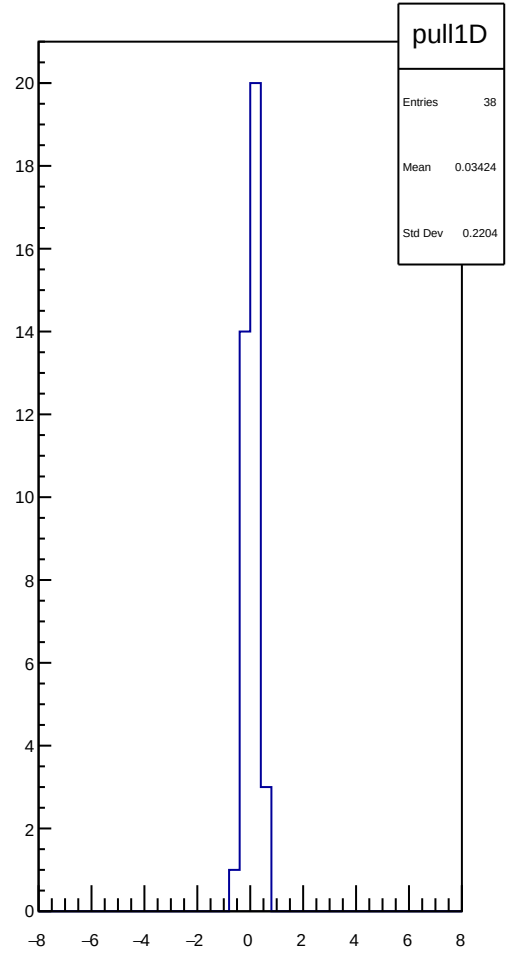

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 21.22 / 37
p0 18.32 ± 0.1724
pull
Entries 38
Mean −625
Std Dev 648

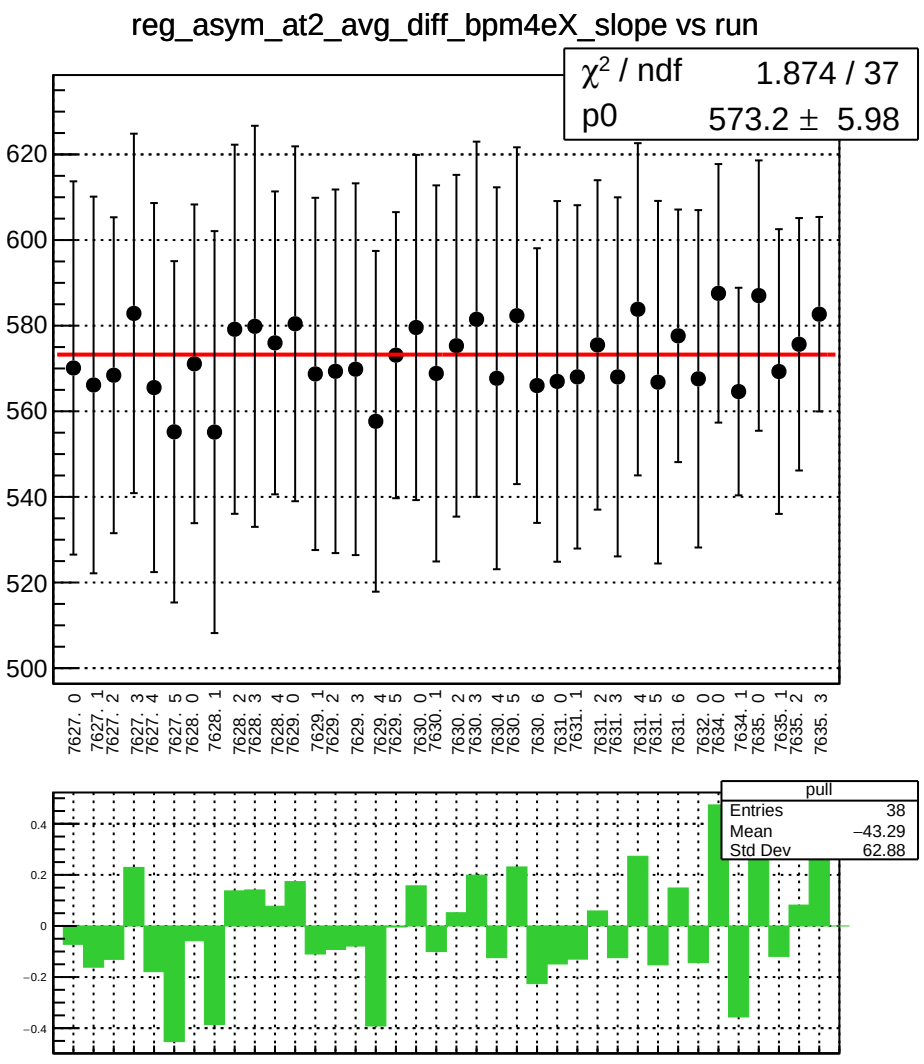

pull1D
Entries 38
Mean −0.003296
Std Dev 0.7473

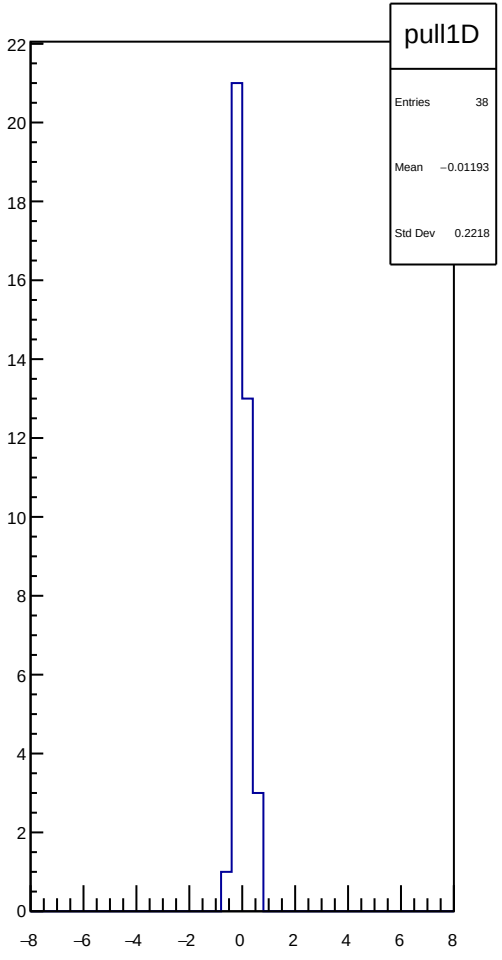

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 1.707 / 37
p0 −585.1± 7.497
pull
Entries 38
Mean −65.29
Std Dev 83.61

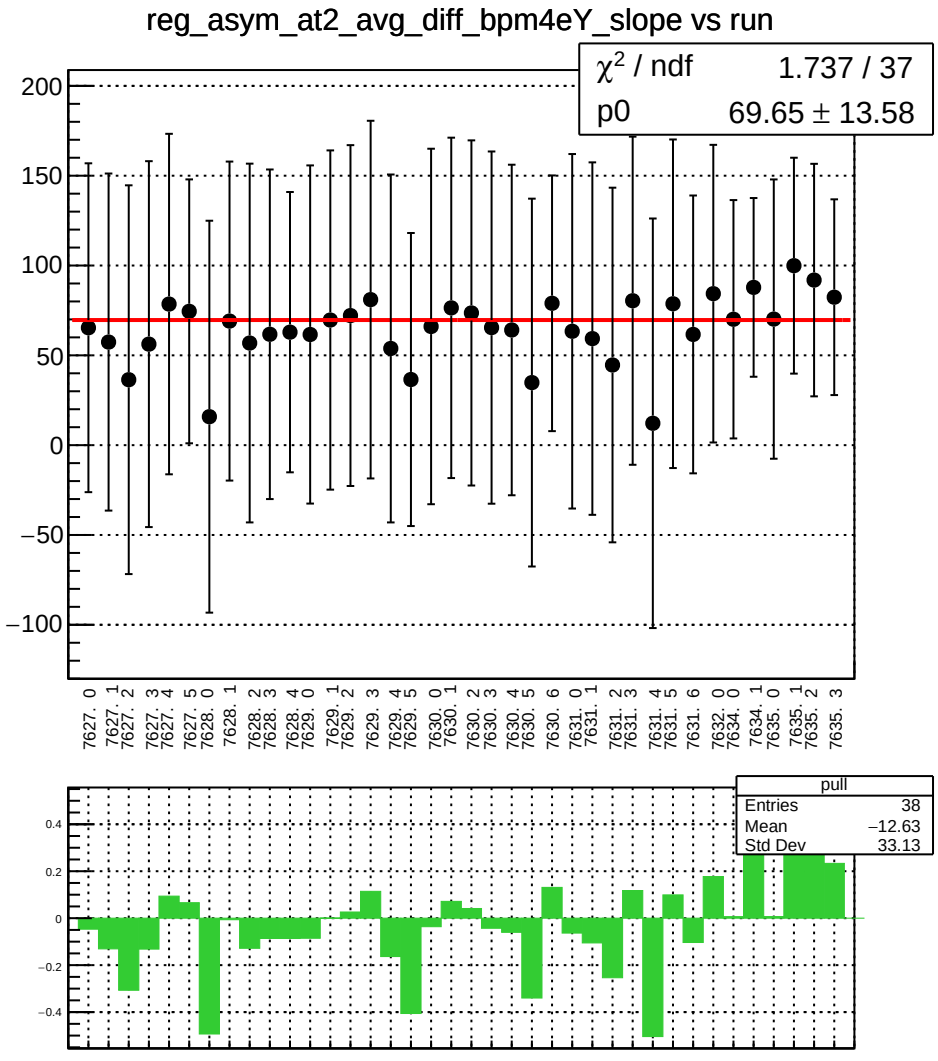

pull1D
Entries 38
Mean 0.006589
Std Dev 0.2118

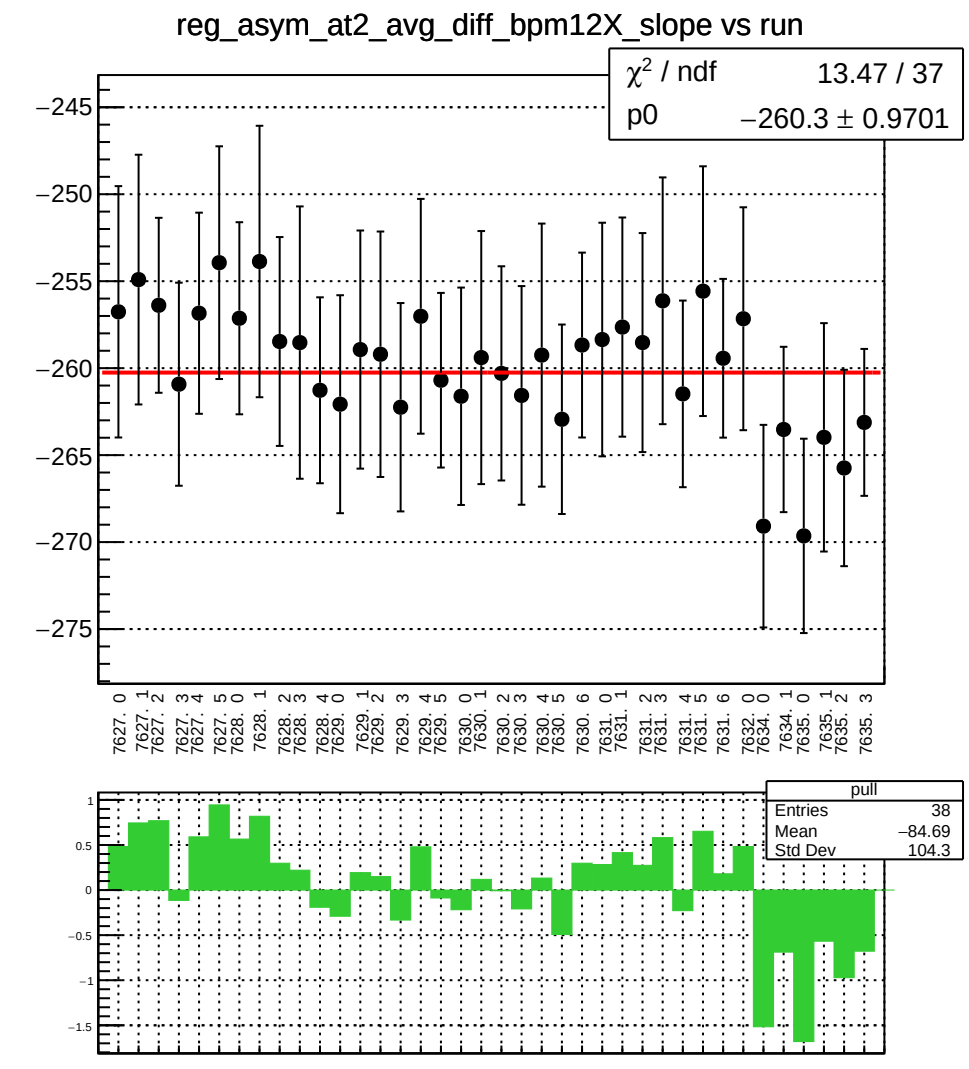

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.891 / 37
p0 57.87 ± 9.238
pull
Entries 38
Mean −13.74
Std Dev 34.24

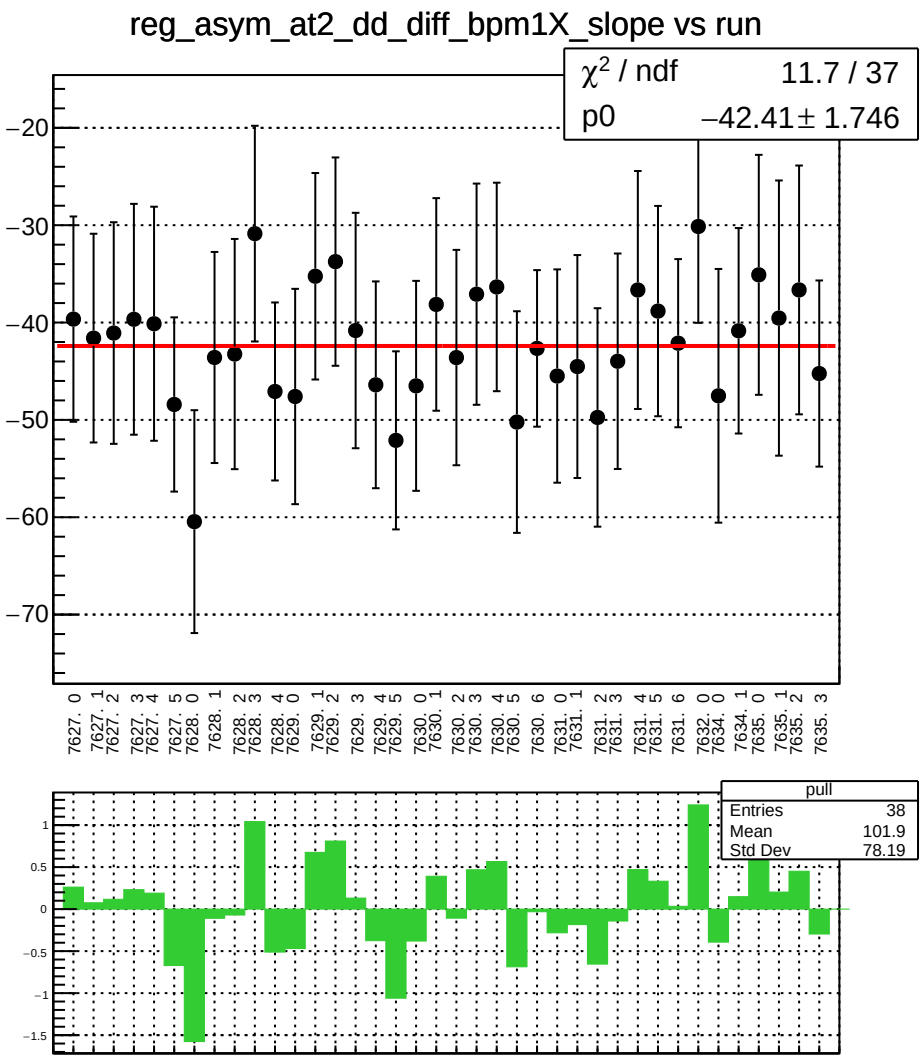

pull1D
Entries 38
Mean 0.03424
Std Dev 0.2204

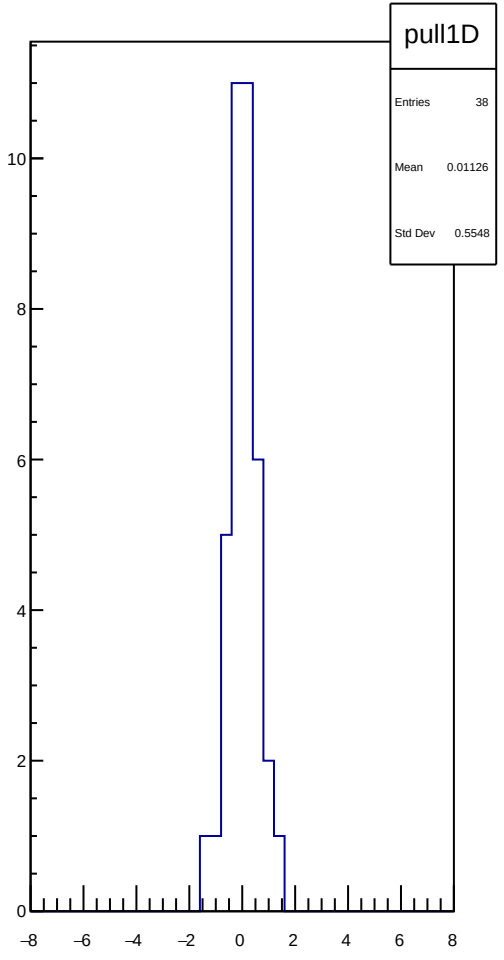

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.874 / 37
p0 573.2 ± 5.98
620
600
580
560
540
520
500
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −43.29
Std Dev 62.88
0.4
0.2
0
−0.2
−0.4

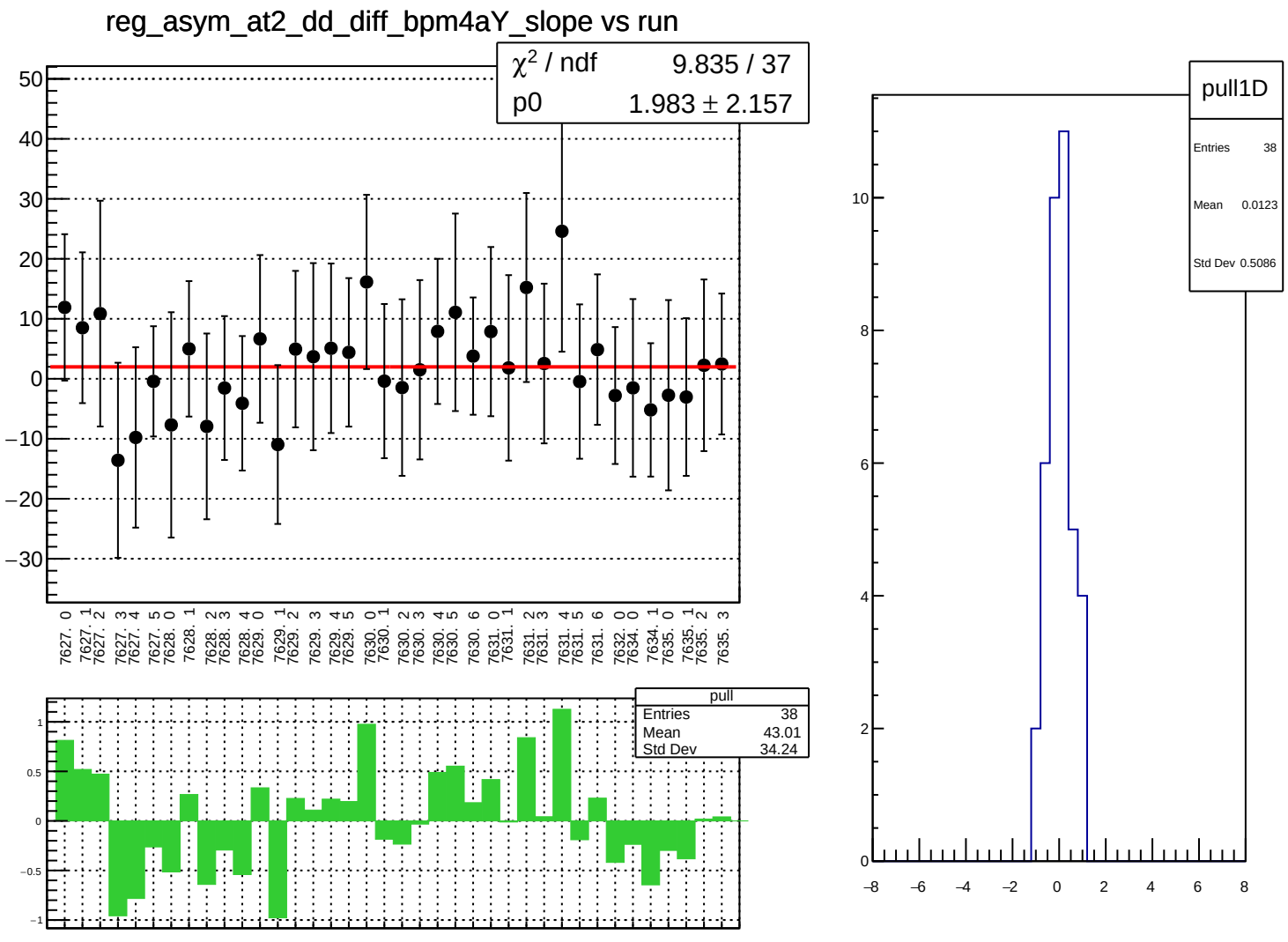

pull1D
Entries 38
Mean −0.01193
Std Dev 0.2218
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

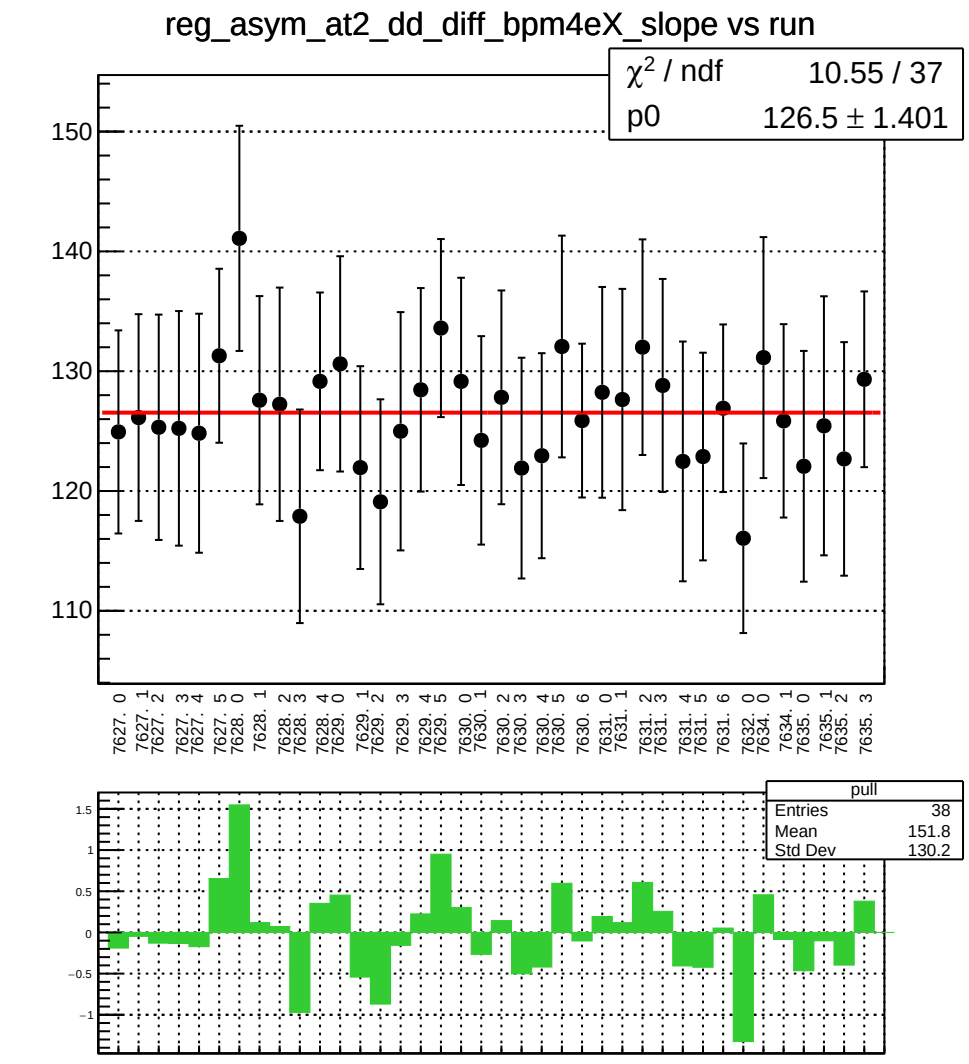

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.737 / 37
p0 69.65 ± 13.58
200
150
100
50
0
−50
−100
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 4
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −12.63
Std Dev 33.13
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 38
Mean −0.03113
Std Dev 0.2115
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

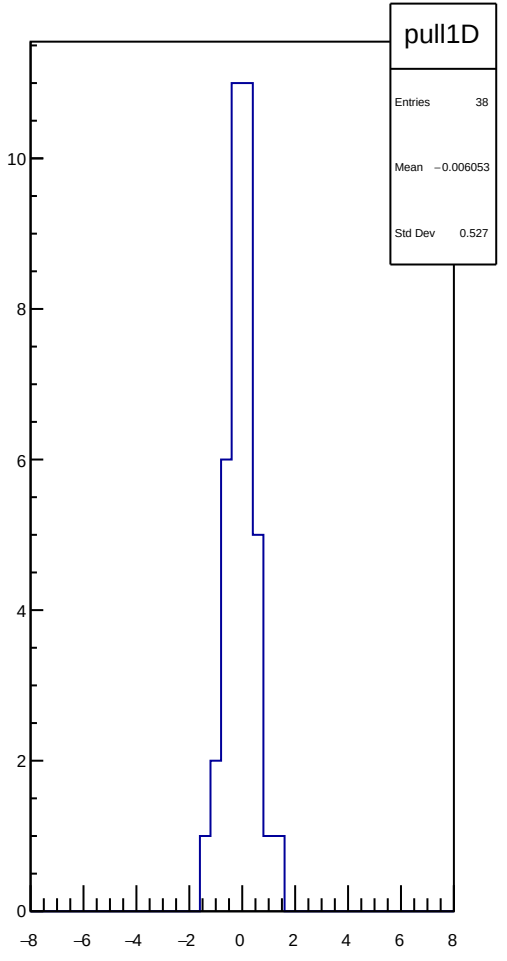

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 13.47 / 37
p0 −260.3 ± 0.9701
−245
−250
−255
−260
−265
−270
−275
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −84.69
Std Dev 104.3
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 38
Mean 0.03695
Std Dev 0.5943
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

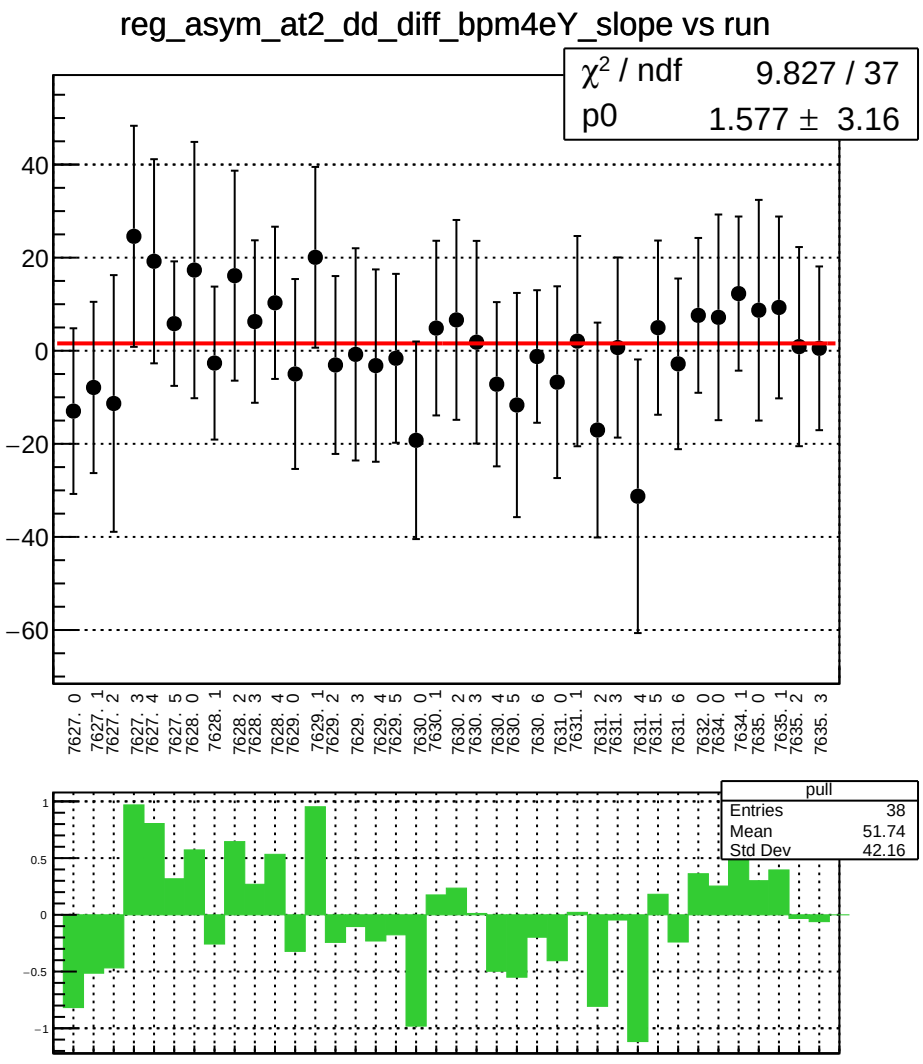

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 11.7 / 37
p0 −42.41 ± 1.746
−20
−30
−40
−50
−60
−70
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 101.9
Std Dev 78.19
1
0.5
0
−0.5
−1
−1.5

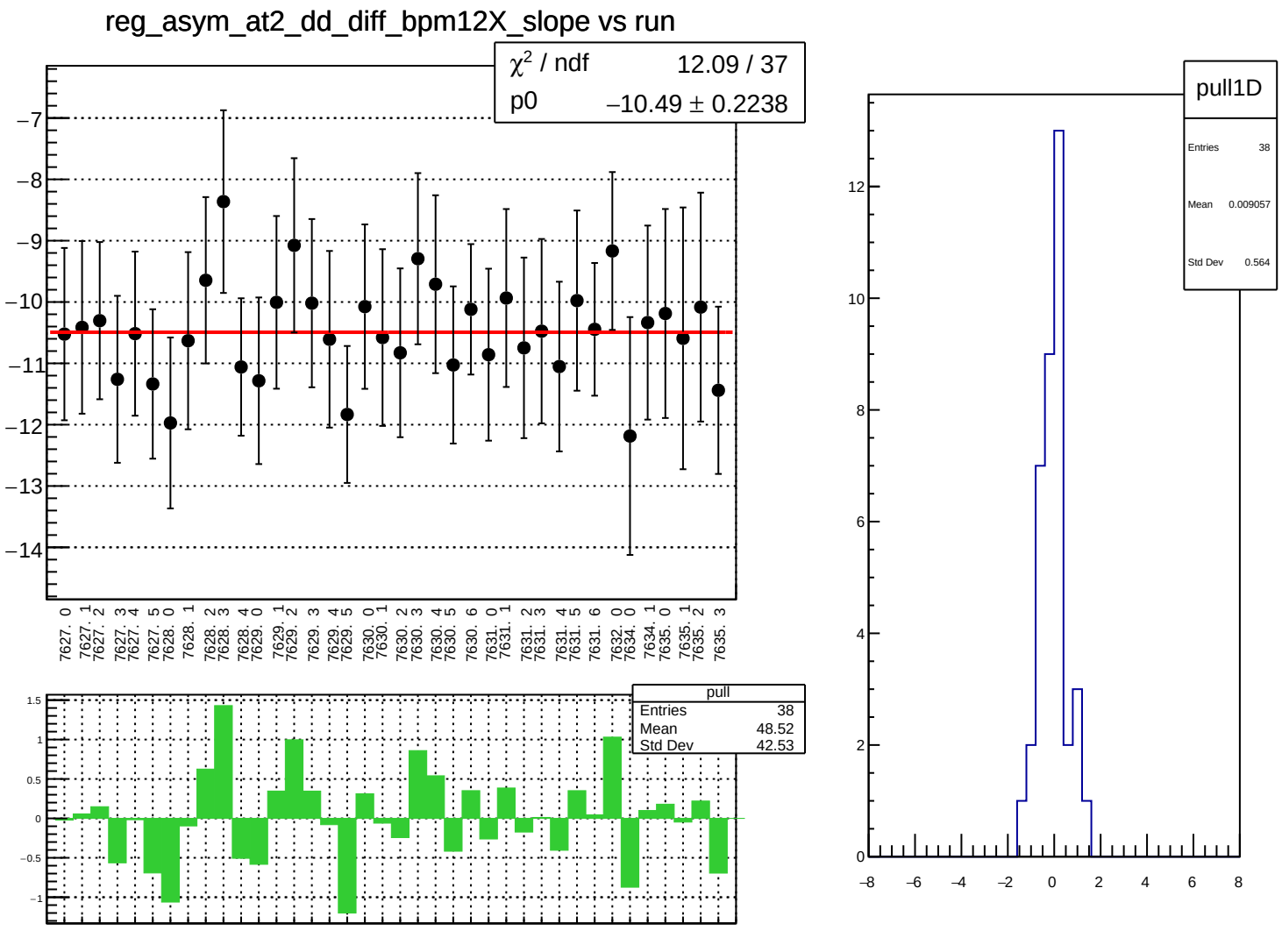

pull1D
Entries 38
Mean 0.01126
Std Dev 0.5548
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

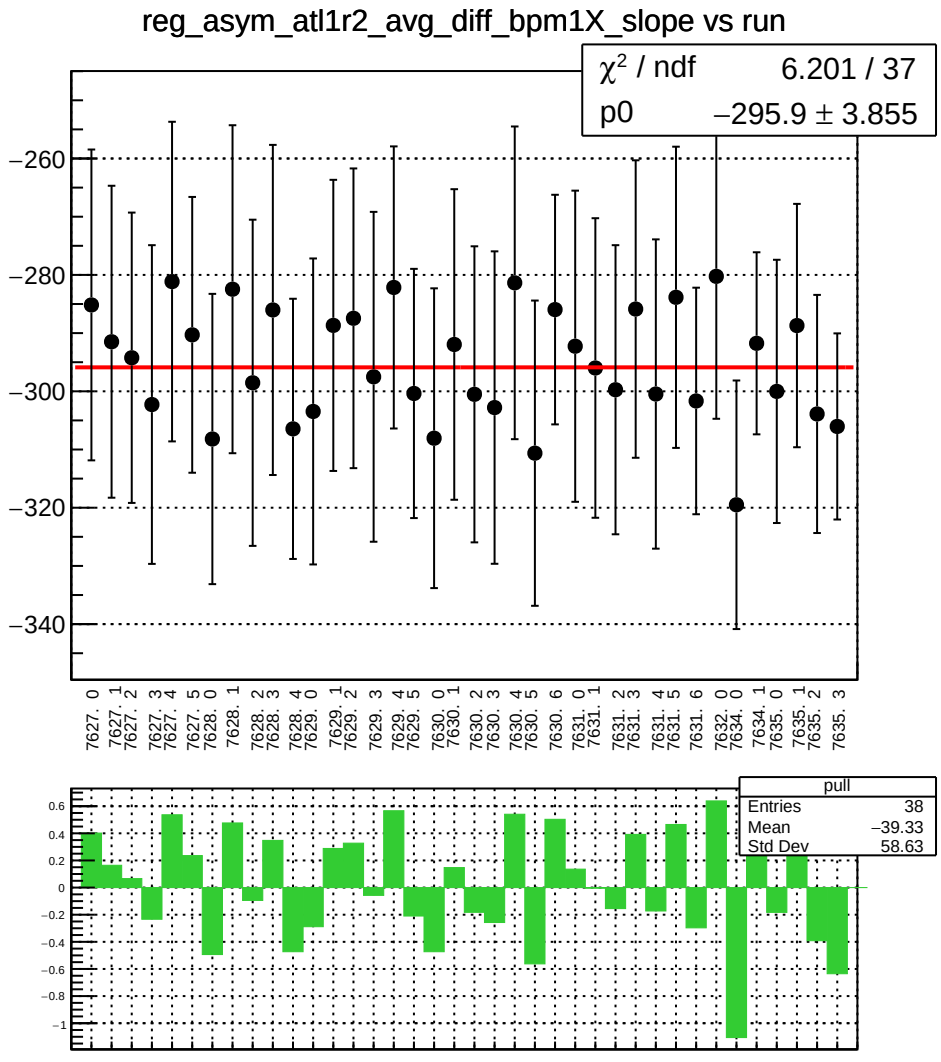

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.835 / 37
p0 1.983 ± 2.157
pull
Entries 38
Mean 43.01
Std Dev 34.24
pull1D
Entries 38
Mean 0.0123
Std Dev 0.5086

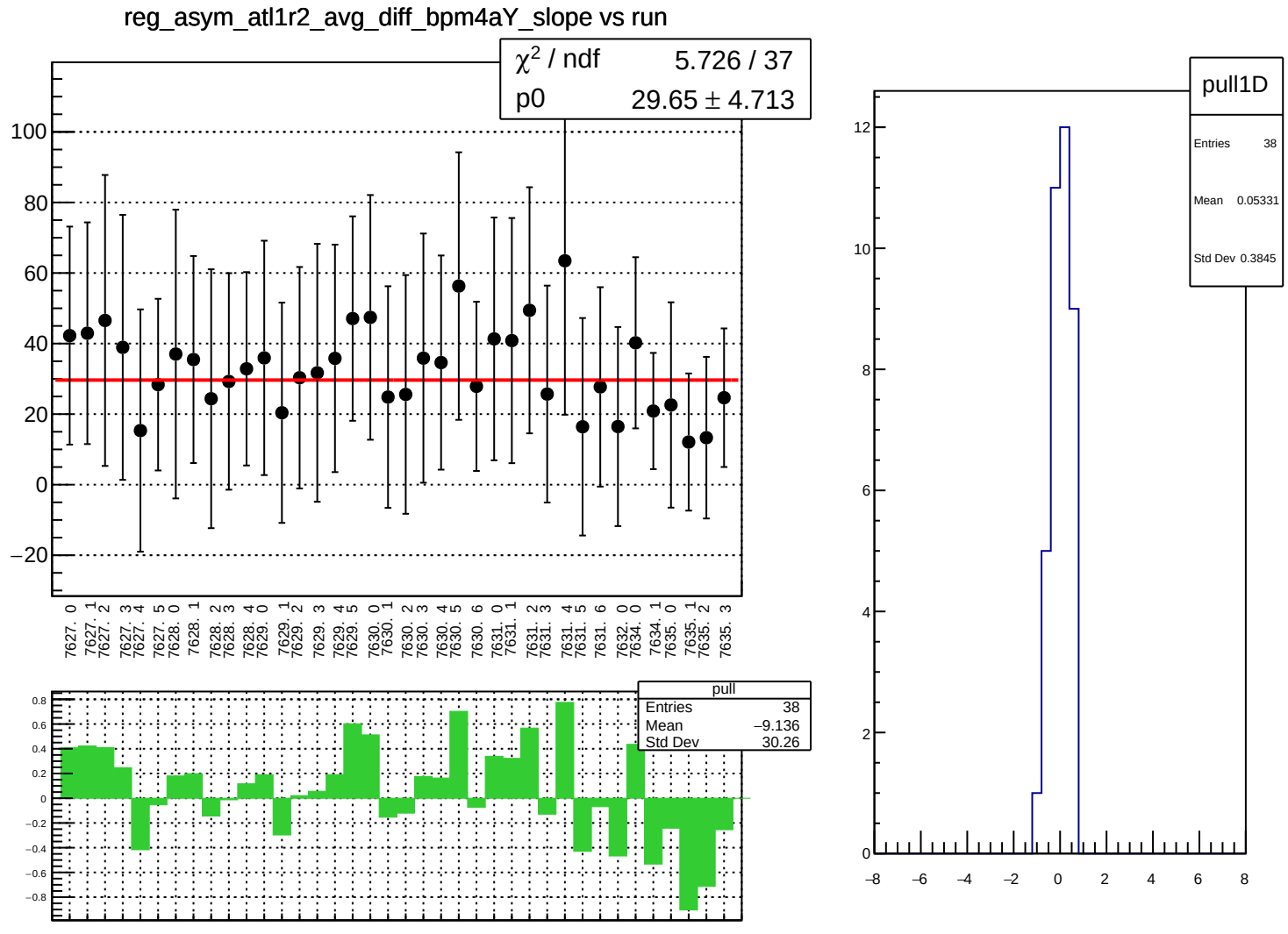

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 10.55 / 37
p0 126.5 ± 1.401
150
140
130
120
110
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 151.8
Std Dev 130.2
1.5
1
0.5
0
−0.5
−1

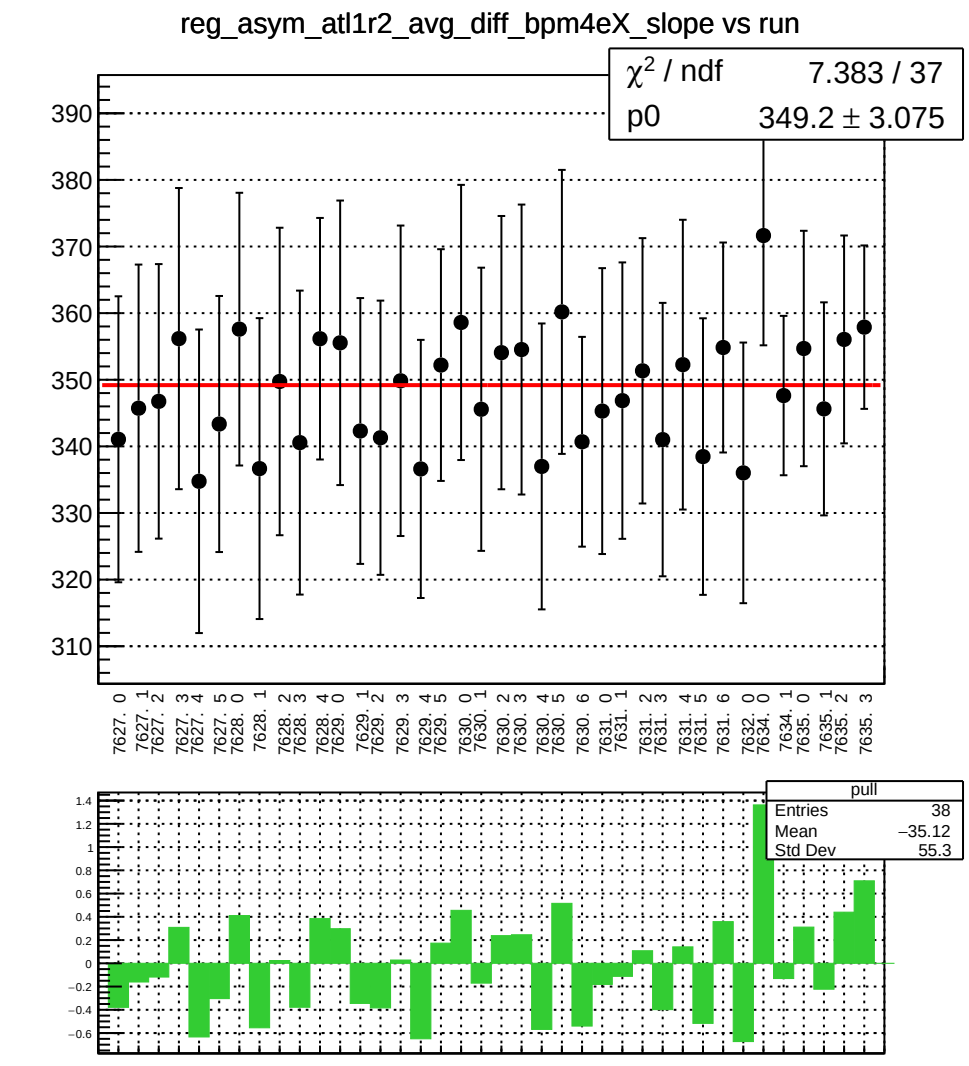

pull1D
Entries 38
Mean −0.006053
Std Dev 0.527
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

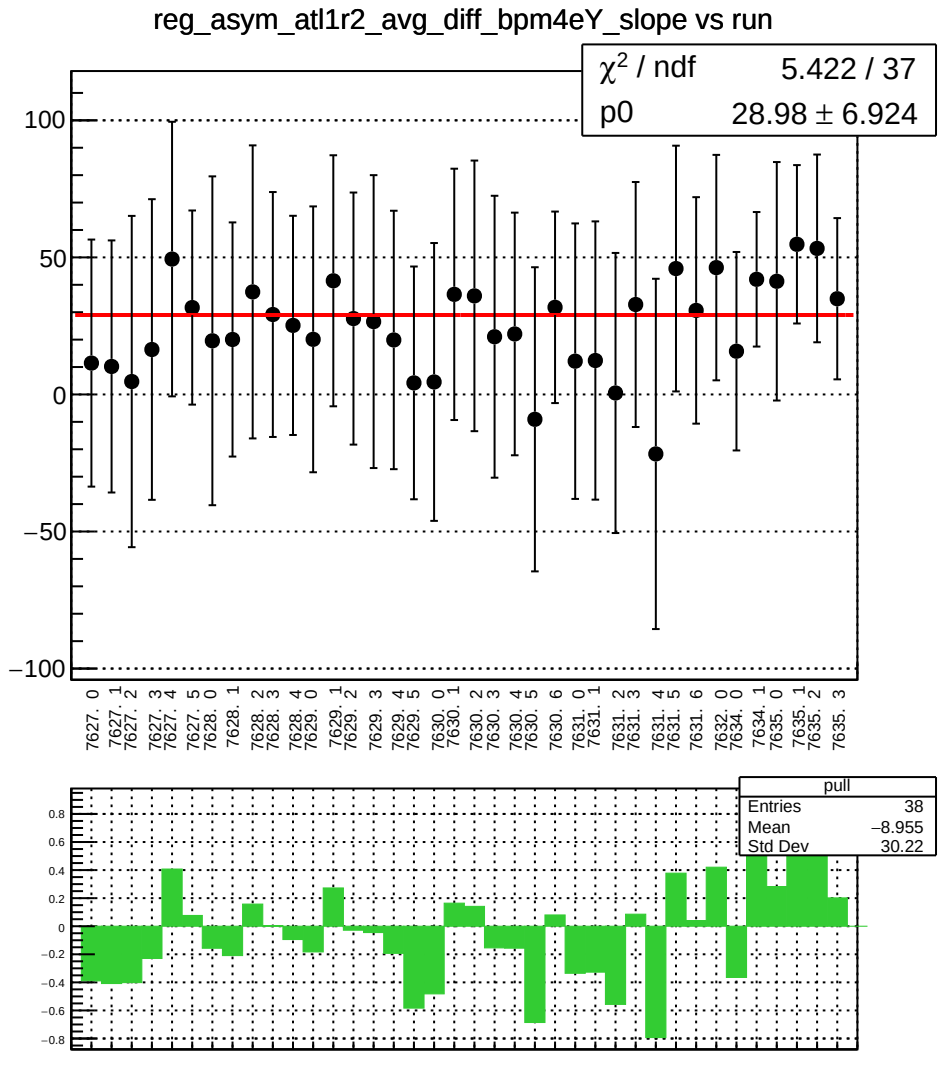

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.827 / 37
p0 1.577 ± 3.16
40
20
0
−20
−40
−60
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 51.74
Std Dev 42.16
1
0.5
0
−0.5
−1
pull1D
Entries 38
Mean −0.01093
Std Dev 0.5084
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

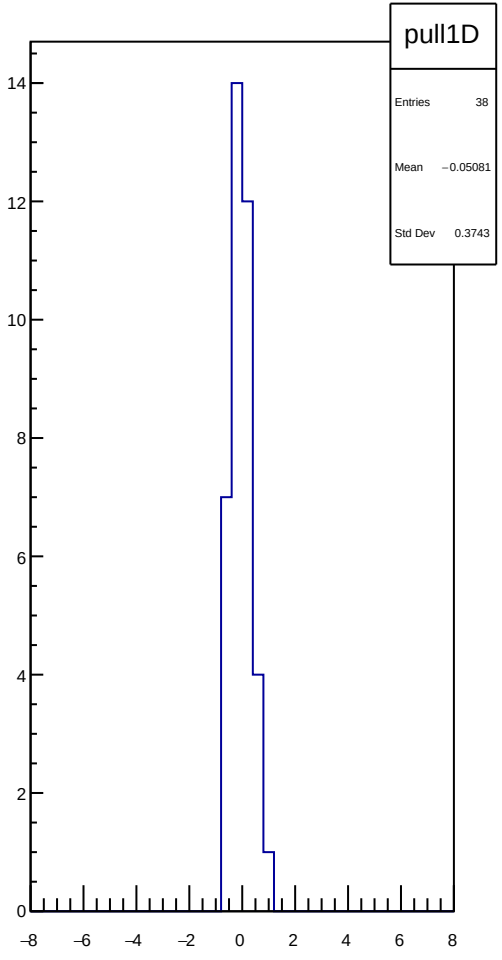

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 12.09 / 37
p0 −10.49 ± 0.2238
pull
Entries 38
Mean 48.52
Std Dev 42.53
pull1D
Entries 38
Mean 0.009057
Std Dev 0.564

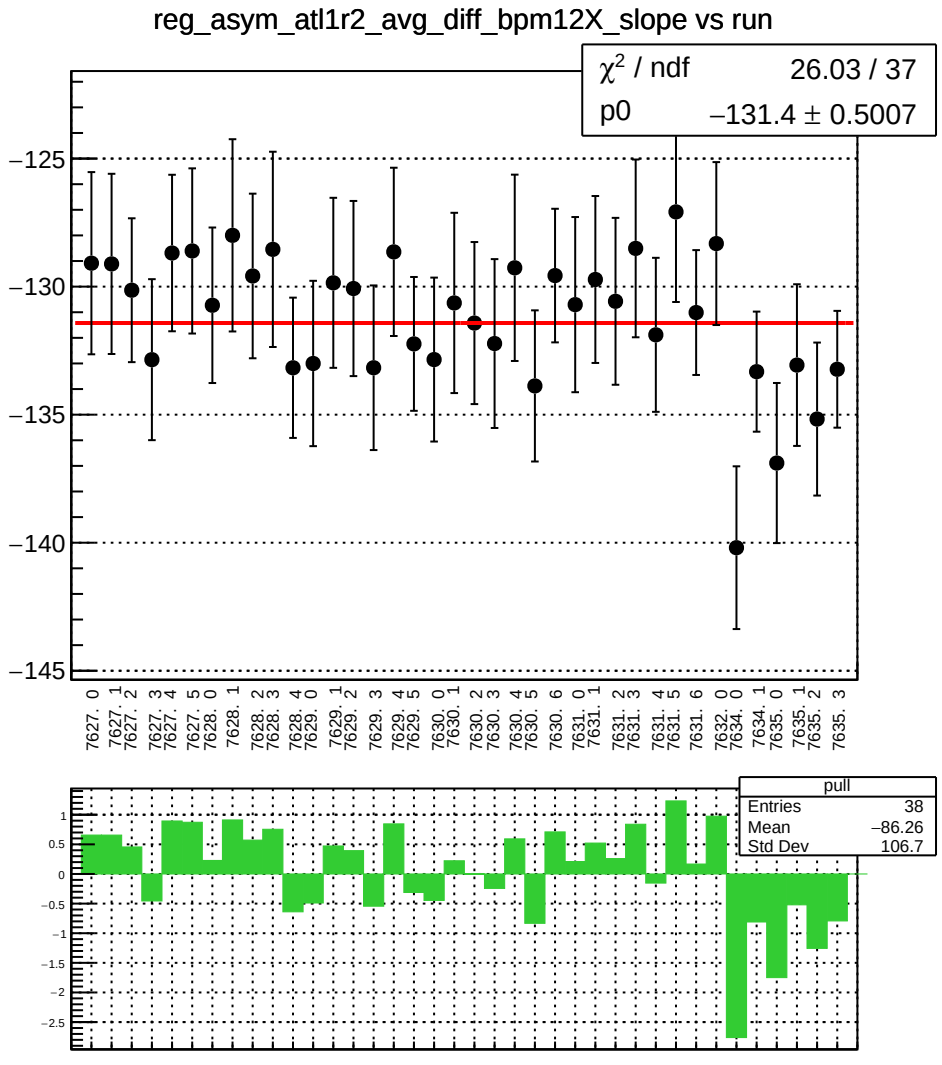

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 6.201 / 37
p0 −295.9 ± 3.855
−260
−280
−300
−320
−340
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −39.33
Std Dev 58.63
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 38
Mean 0.01507
Std Dev 0.4037
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

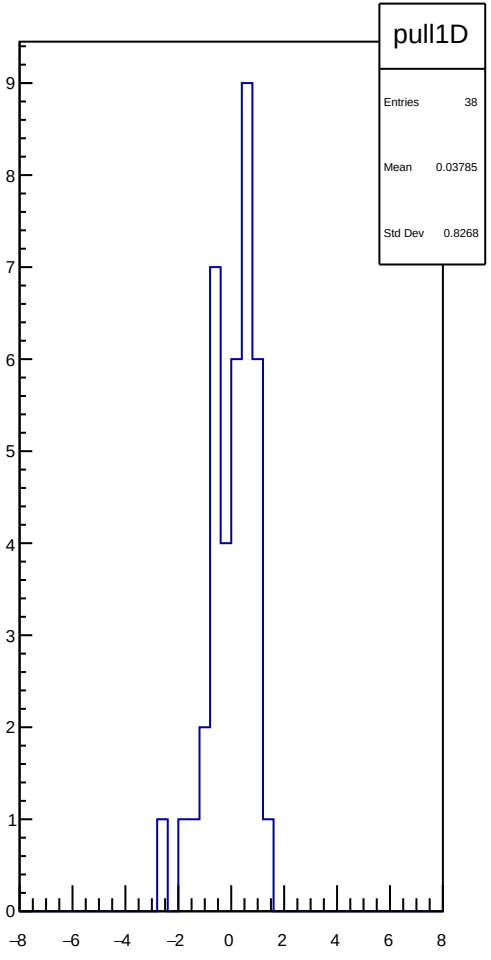

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.726 / 37
p0 29.65 ± 4.713
100
80
60
40
20
0
−20
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 4
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −9.136
Std Dev 30.26
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 38
Mean 0.05331
Std Dev 0.3845
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

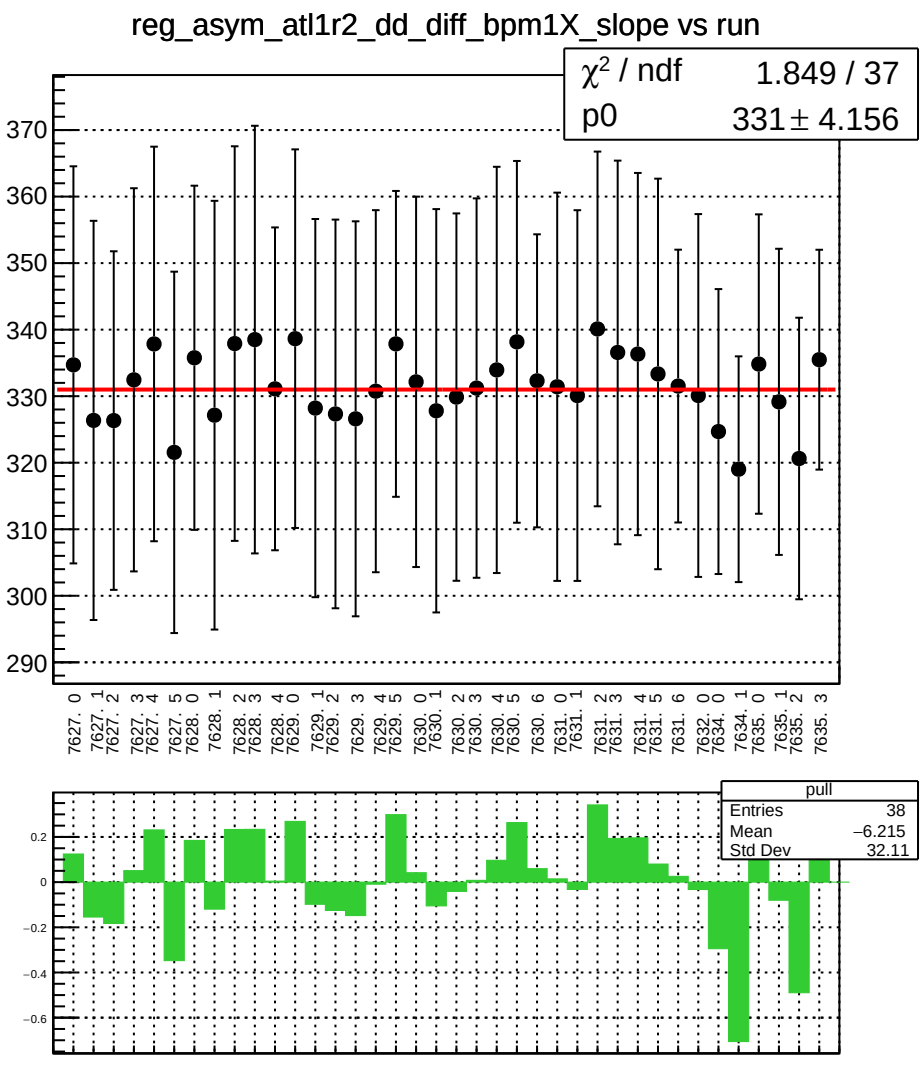

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 7.383 / 37
p0 349.2 ± 3.075
390
380
370
360
350
340
330
320
310
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −35.12
Std Dev 55.3
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 38
Mean −0.02385
Std Dev 0.4401
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

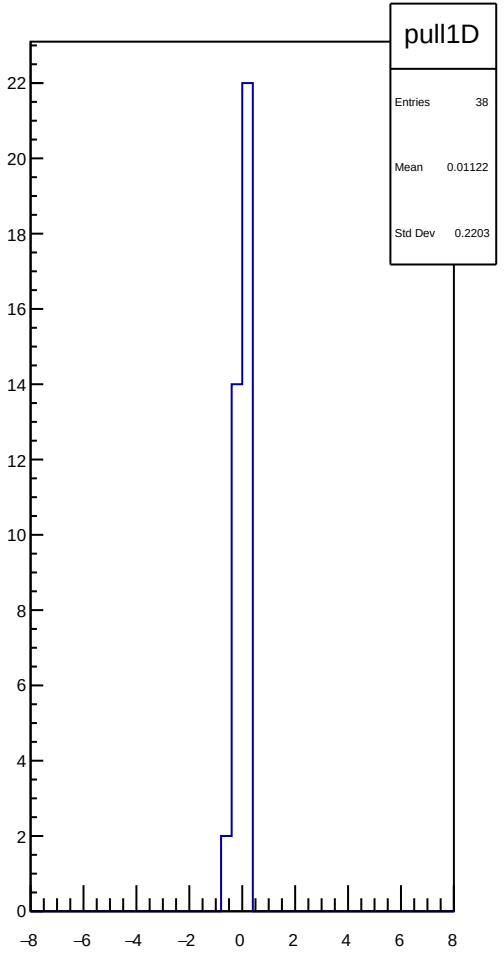

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.422 / 37
p0 28.98 ± 6.924
100
50
0
−50
−100
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −8.955
Std Dev 30.22
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

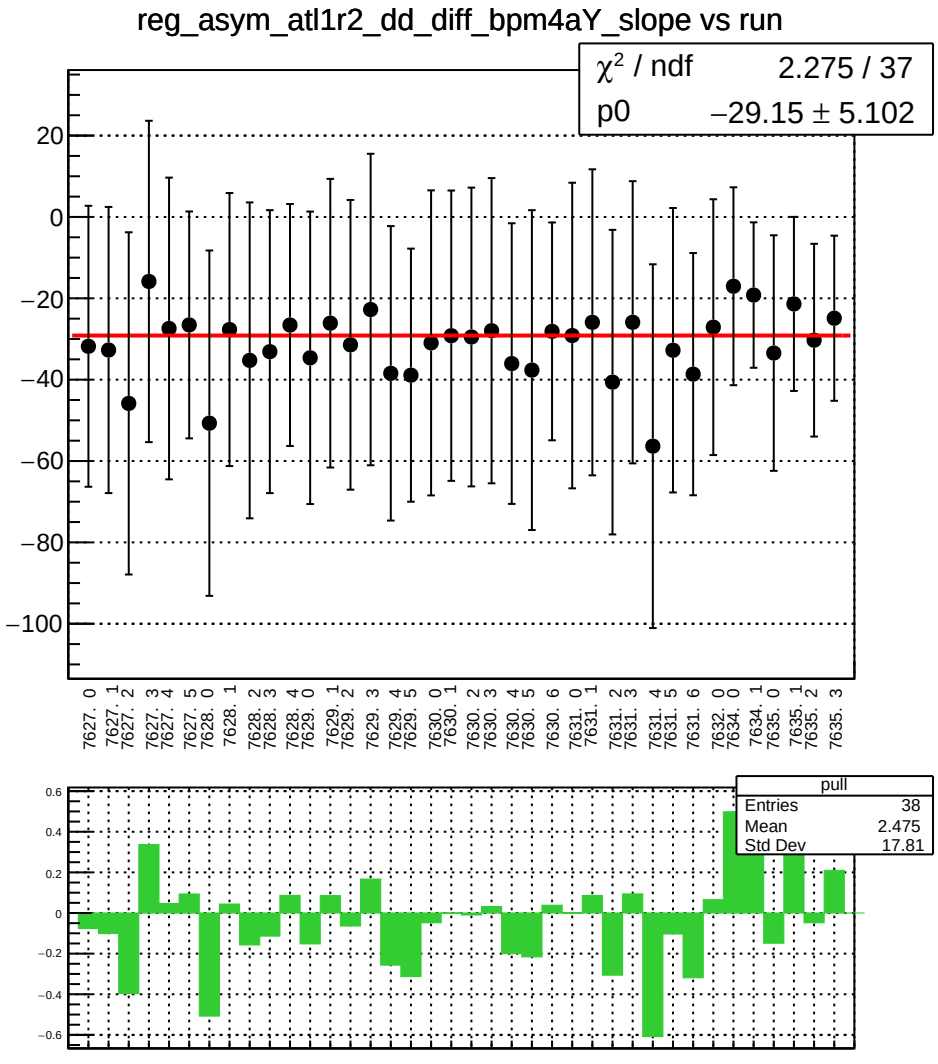

pull1D
Entries 38
Mean −0.05081
Std Dev 0.3743
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

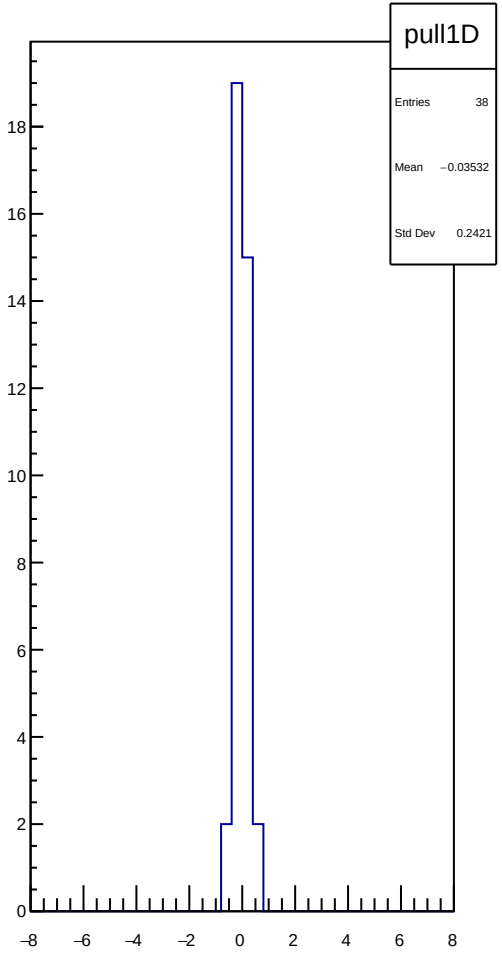

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 26.03 / 37
p0 −131.4 ± 0.5007
−125
−130
−135
−140
−145
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −86.26
Std Dev 106.7
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

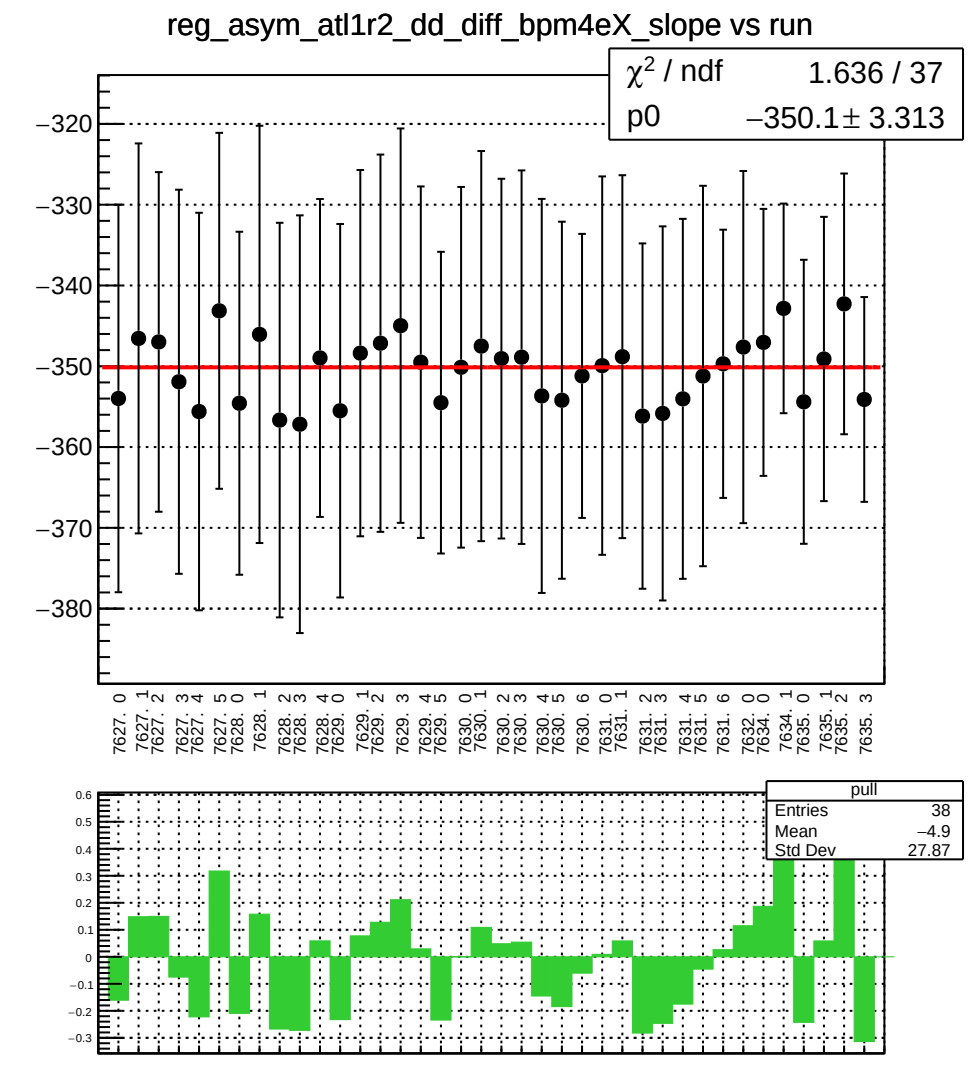

pull1D
Entries 38
Mean 0.03785
Std Dev 0.8268
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

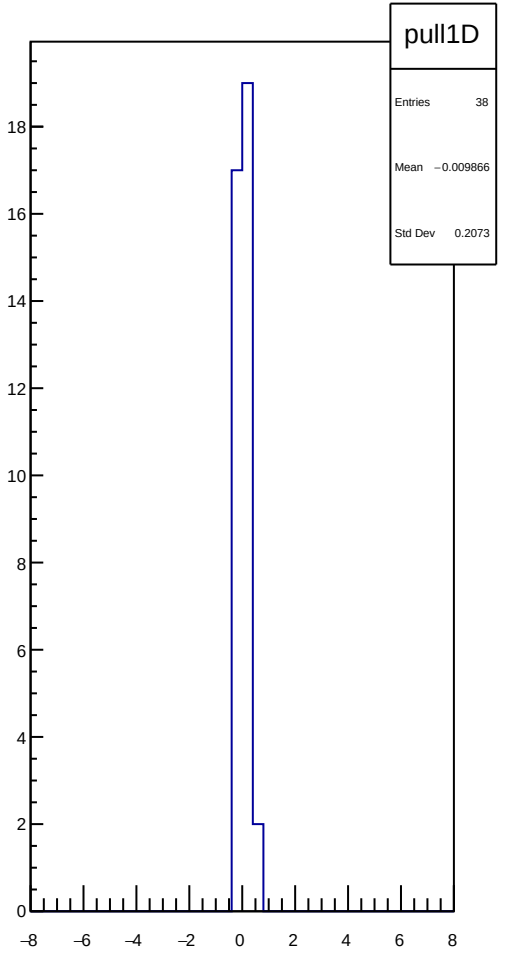

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 1.849 / 37
p0 331 ± 4.156
pull
Entries 38
Mean −6.215
Std Dev 32.11

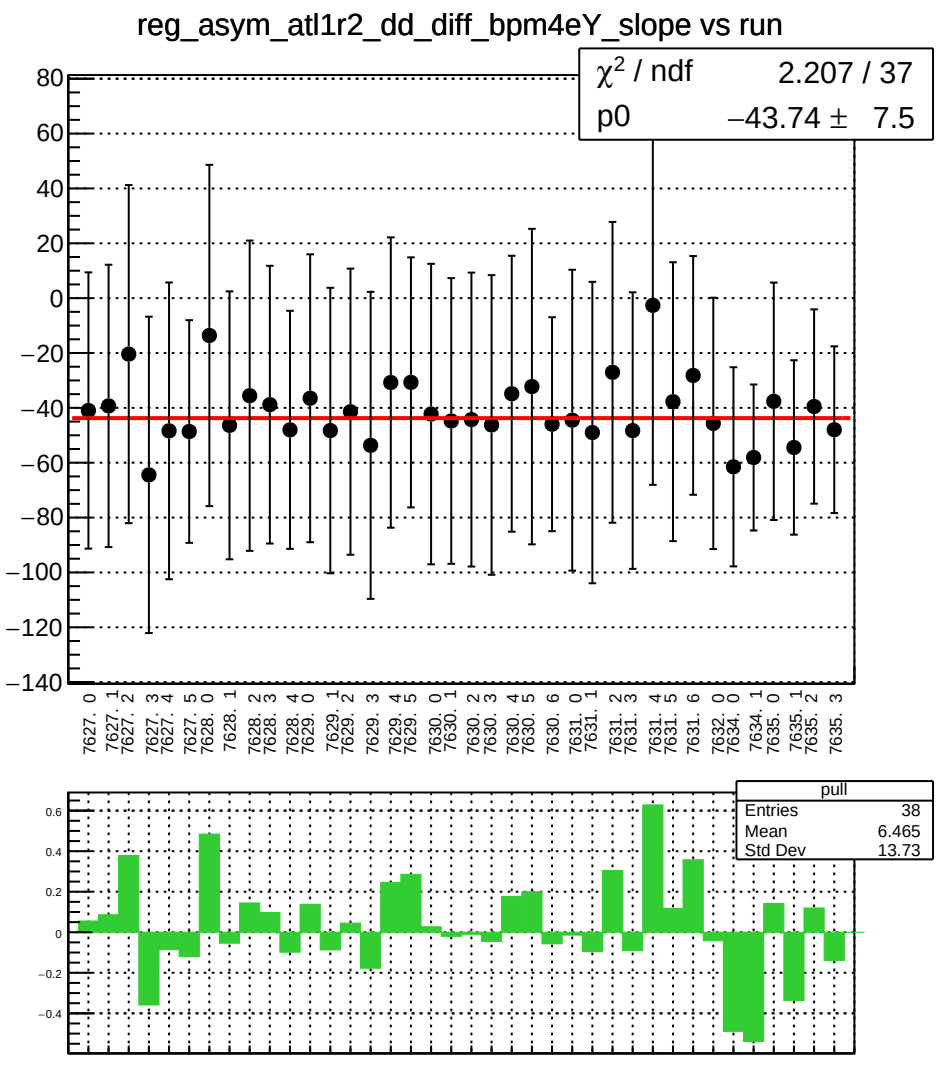

pull1D
Entries 38
Mean 0.01122
Std Dev 0.2203

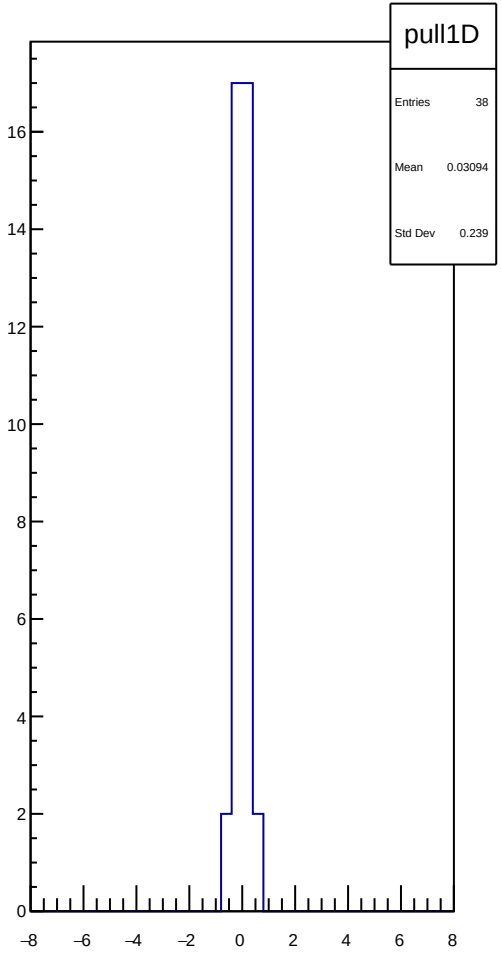

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.275 / 37
p0 −29.15 ± 5.102
20
0
−20
−40
−60
−80
−100
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 2.475
Std Dev 17.81
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

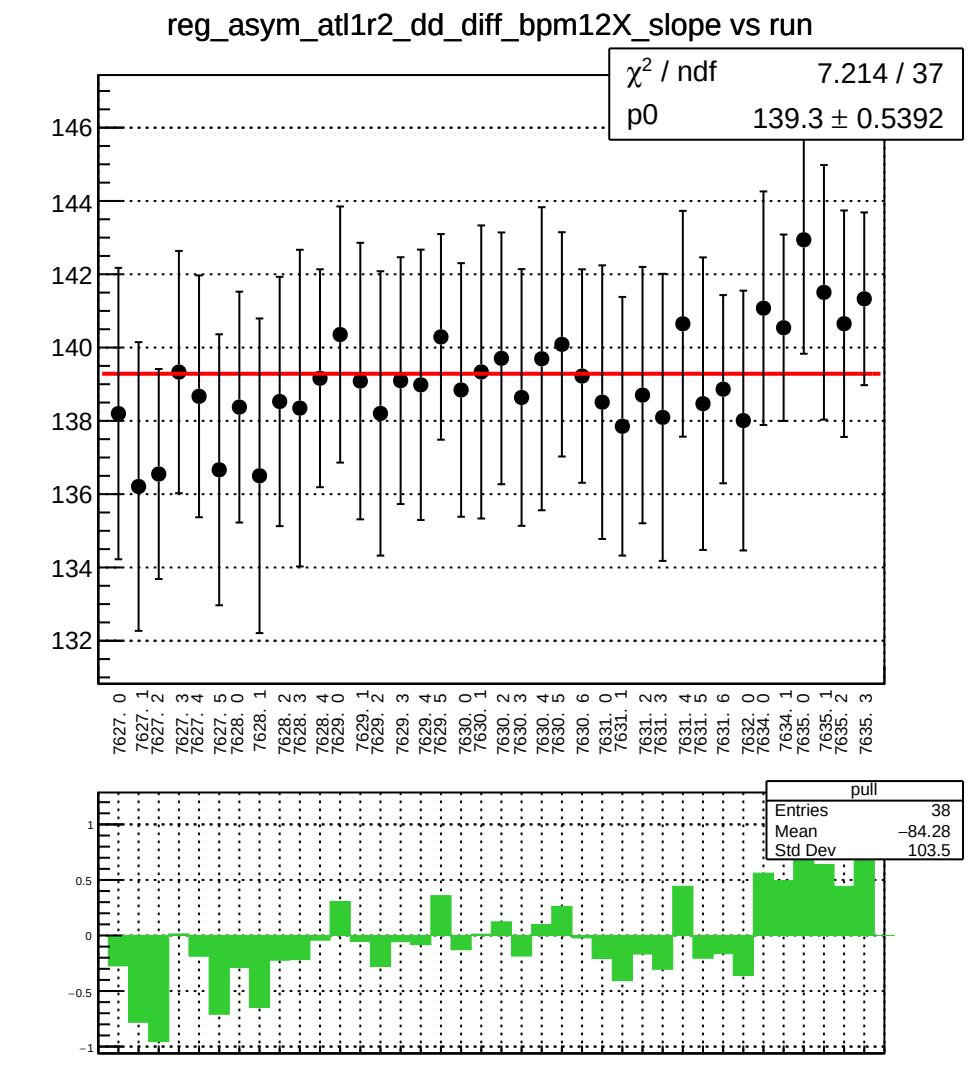

pull1D
Entries 38
Mean −0.03532
Std Dev 0.2421
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

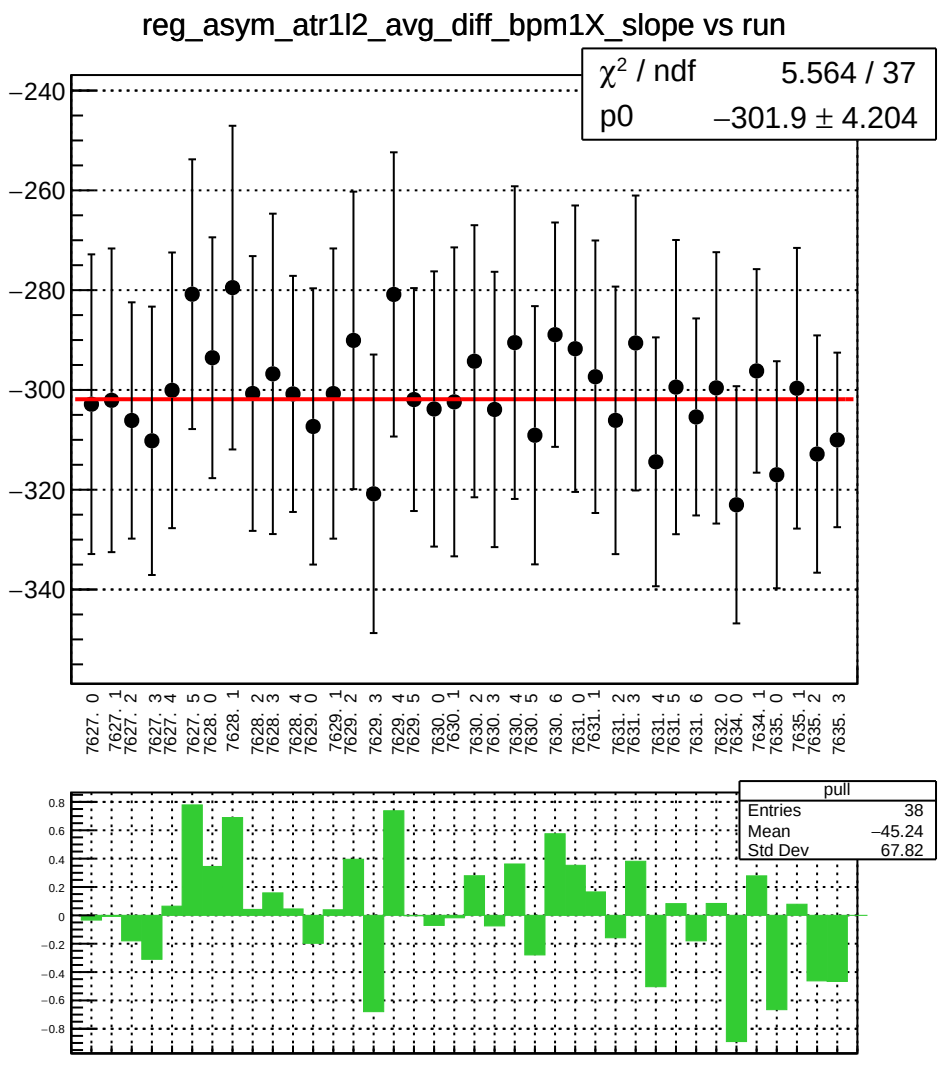

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.636 / 37
p0 −350.1± 3.313
−320
−330
−340
−350
−360
−370
−380
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 4
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −4.9
Std Dev 27.87
0.6
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

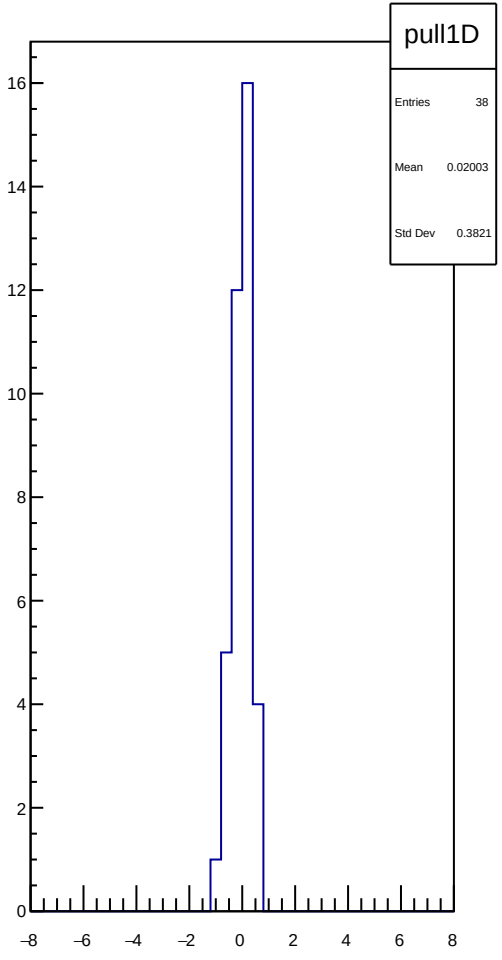

pull1D
Entries 38
Mean −0.009866
Std Dev 0.2073
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

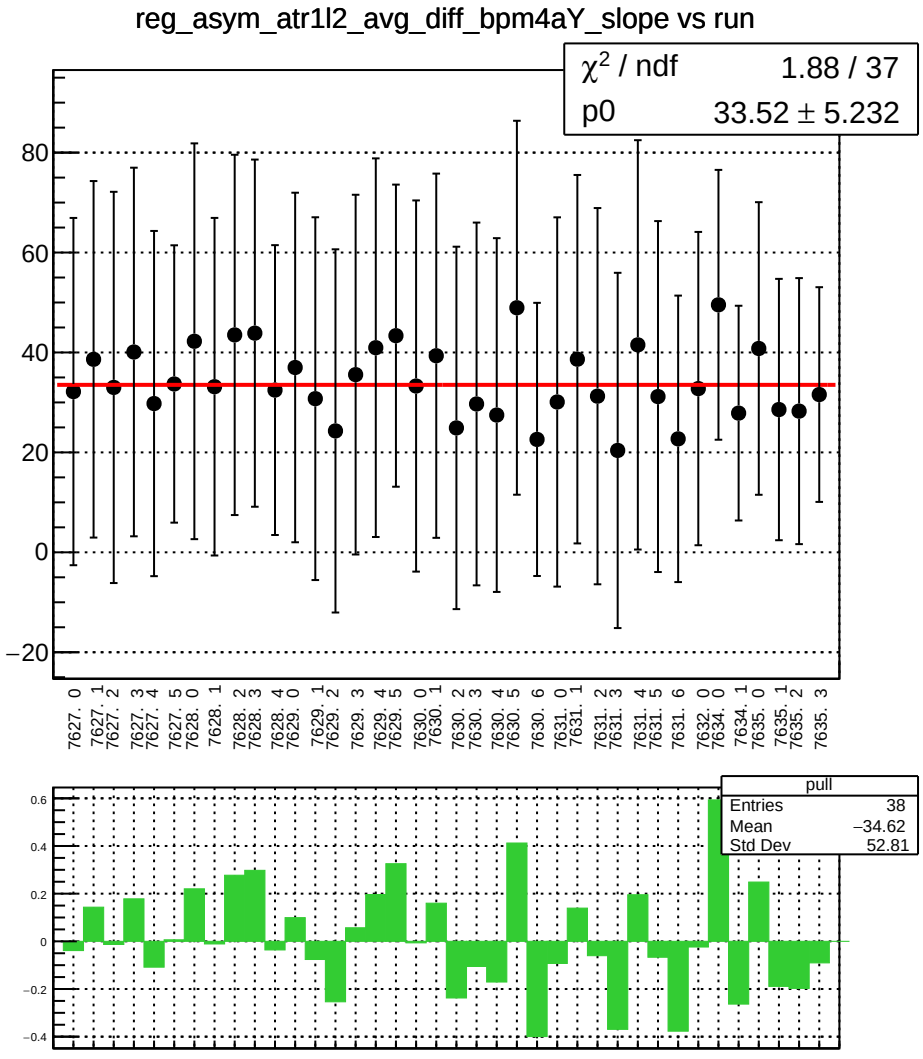

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.207 / 37
p0 −43.74 ± 7.5
pull
Entries 38
Mean 6.465
Std Dev 13.73

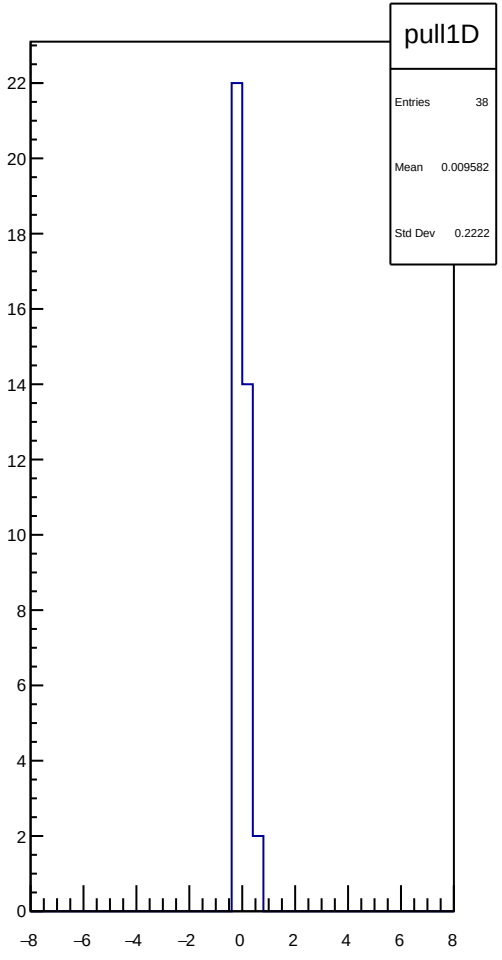

pull1D
Entries 38
Mean 0.03094
Std Dev 0.239

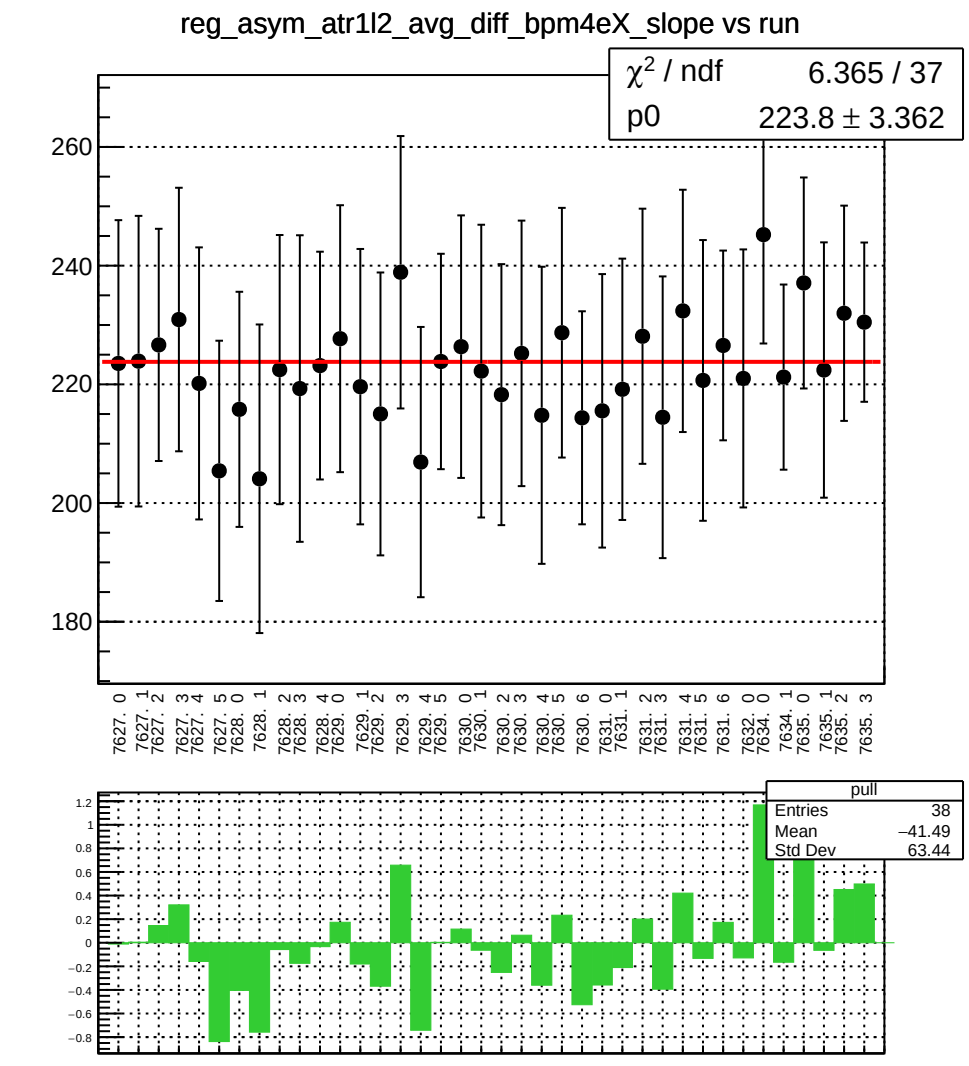

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 7.214 / 37
p0 139.3 ± 0.5392
146
144
142
140
138
136
134
132
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −84.28
Std Dev 103.5
1
0.5
0
−0.5
−1
pull1D
Entries 38
Mean −0.03006
Std Dev 0.4347
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

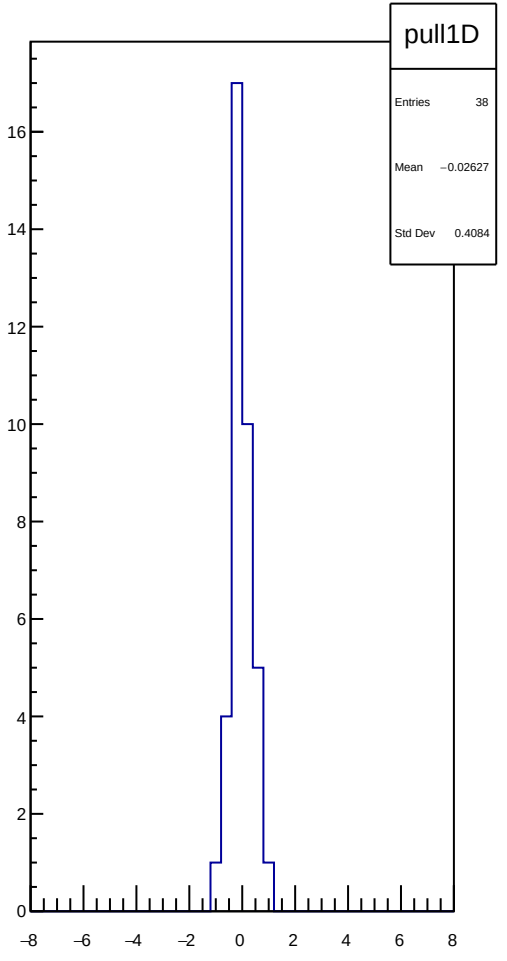

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 5.564 / 37
p0 −301.9 ± 4.204
−240
−260
−280
−300
−320
−340
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 4
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −45.24
Std Dev 67.82
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

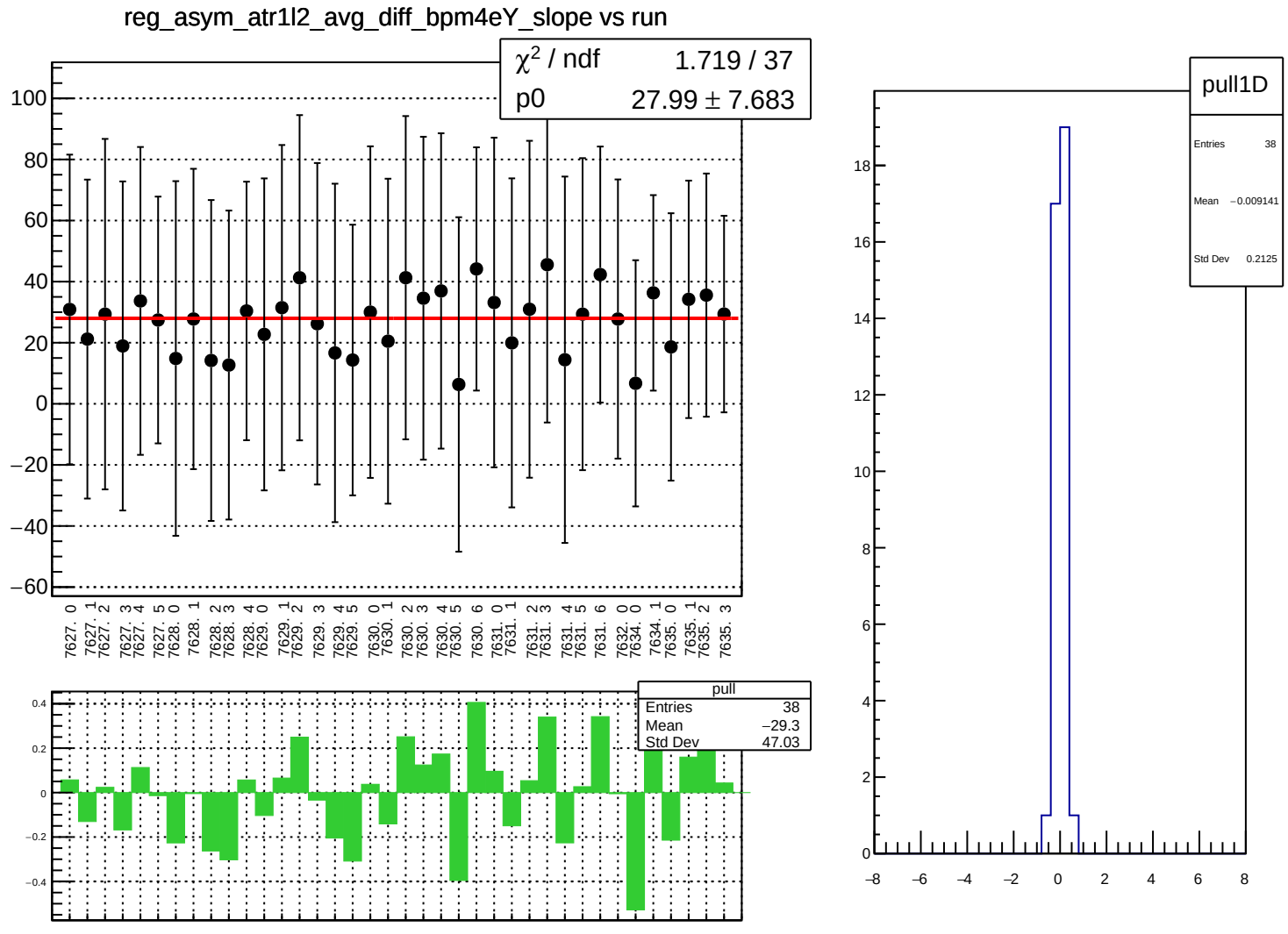

pull1D
Entries 38
Mean 0.02003
Std Dev 0.3821
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

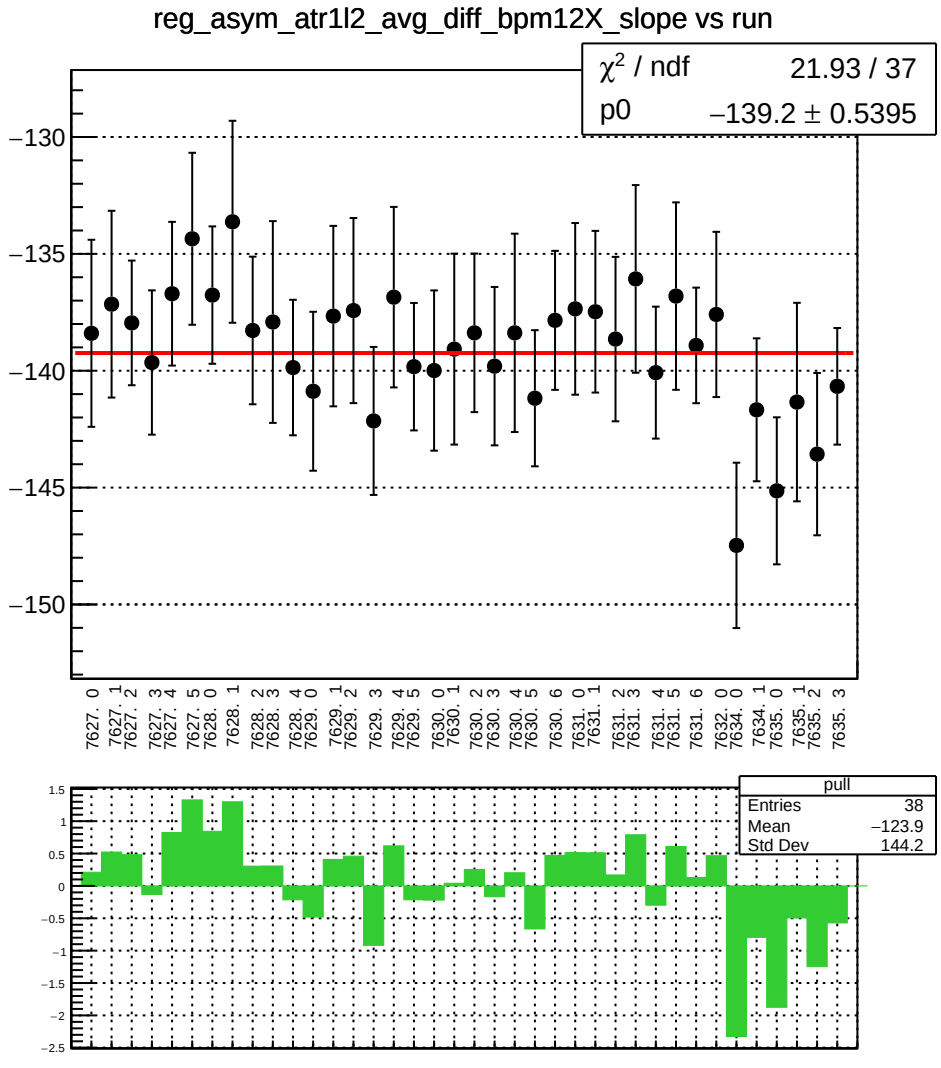

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.88 / 37
p0 33.52 ± 5.232
pull
Entries 38
Mean −34.62
Std Dev 52.81

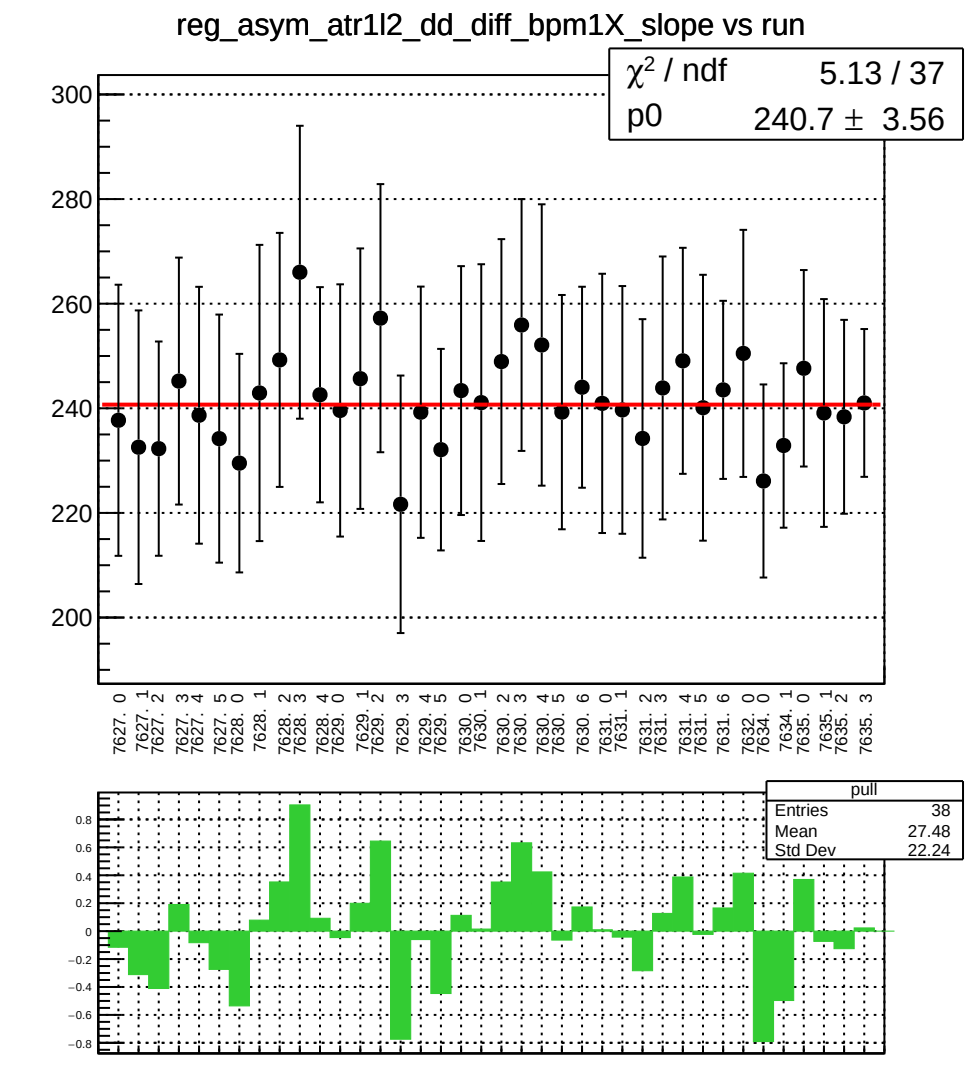

pull1D
Entries 38
Mean 0.009582
Std Dev 0.2222

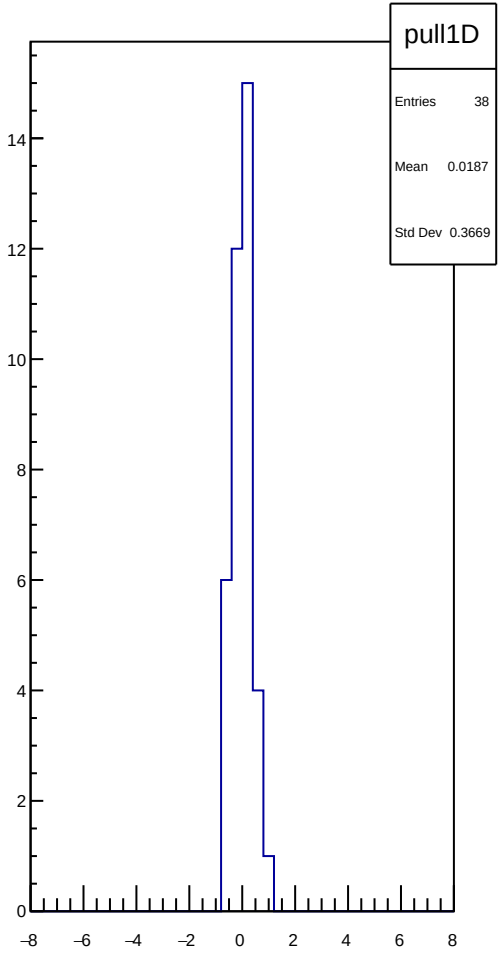

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.365 / 37
p0 223.8 ± 3.362
260
240
220
200
180
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −41.49
Std Dev 63.44
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

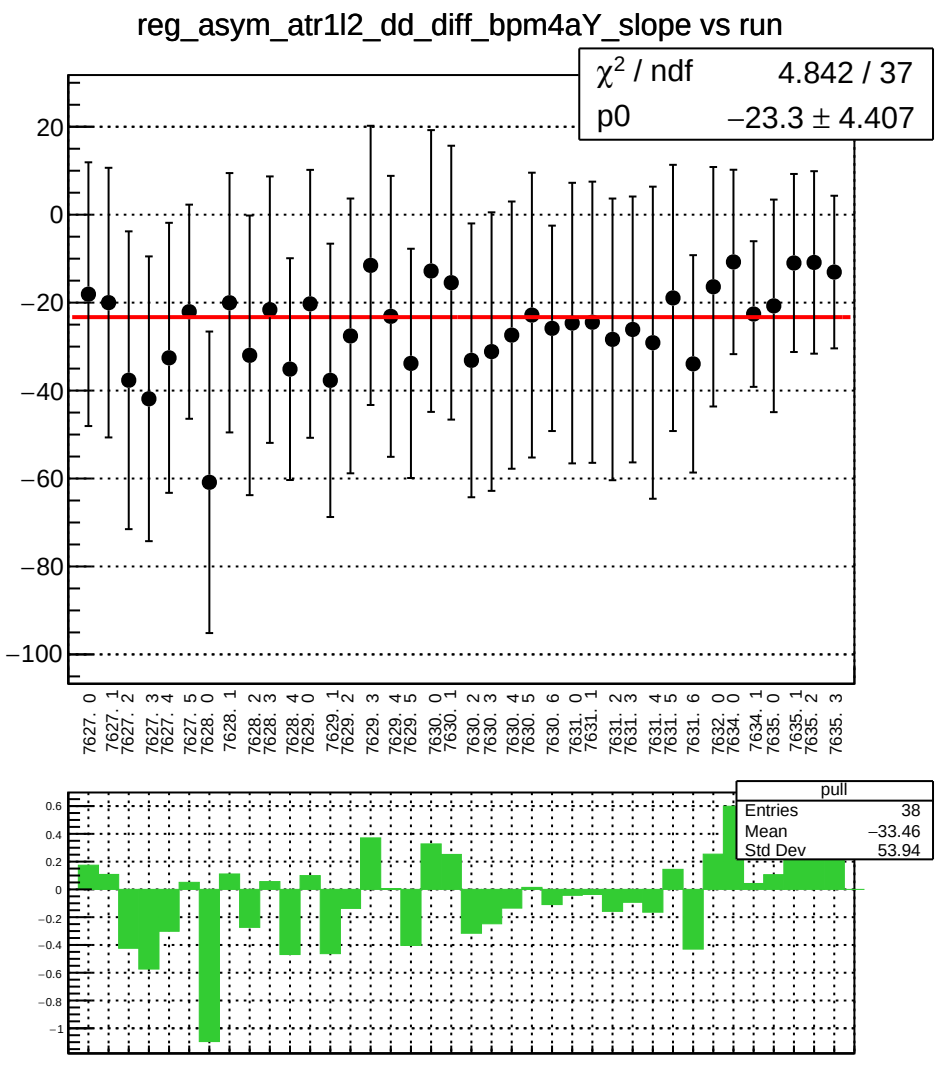

pull1D
Entries 38
Mean −0.02627
Std Dev 0.4084
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

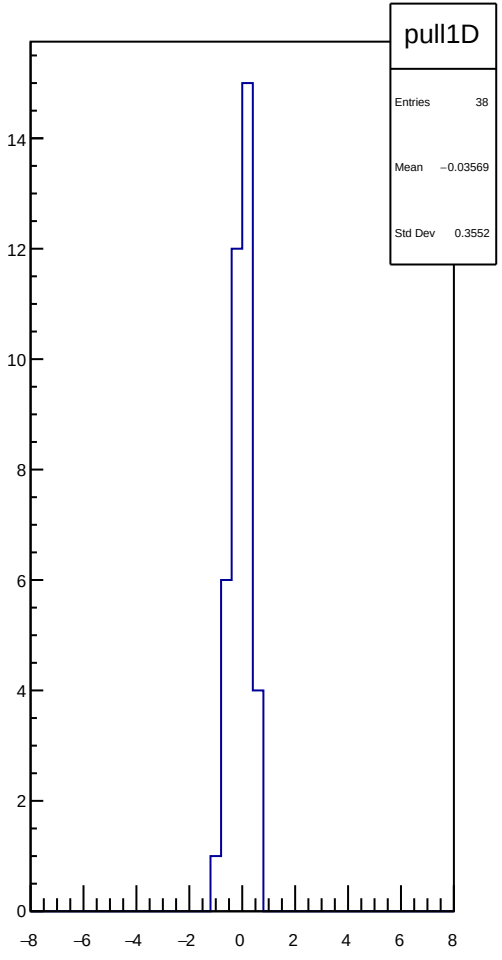

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.719 / 37
p0 27.99 ± 7.683
pull
Entries 38
Mean −29.3
Std Dev 47.03
pull1D
Entries 38
Mean −0.009141
Std Dev 0.2125

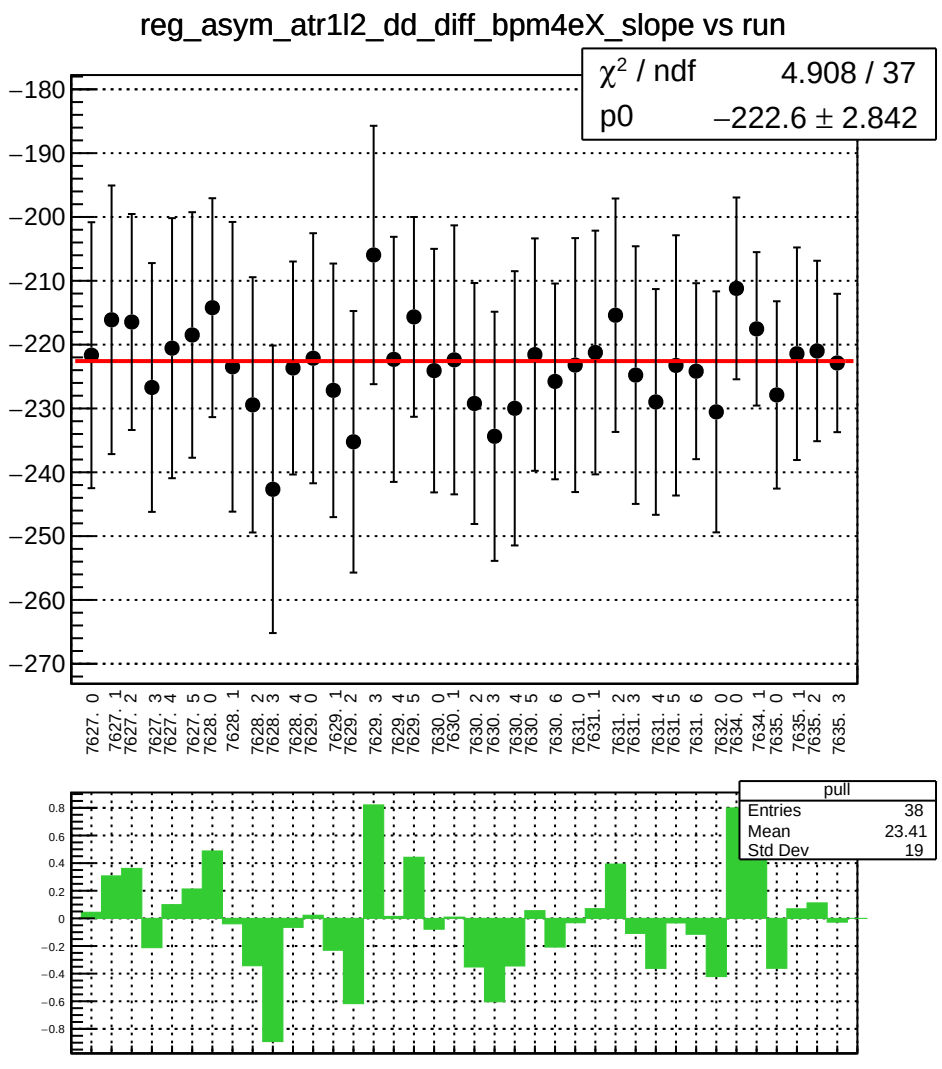

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 21.93 / 37
p0 −139.2 ± 0.5395
−130
−135
−140
−145
−150
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 4
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −123.9
Std Dev 144.2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 38
Mean 0.03034
Std Dev 0.759
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

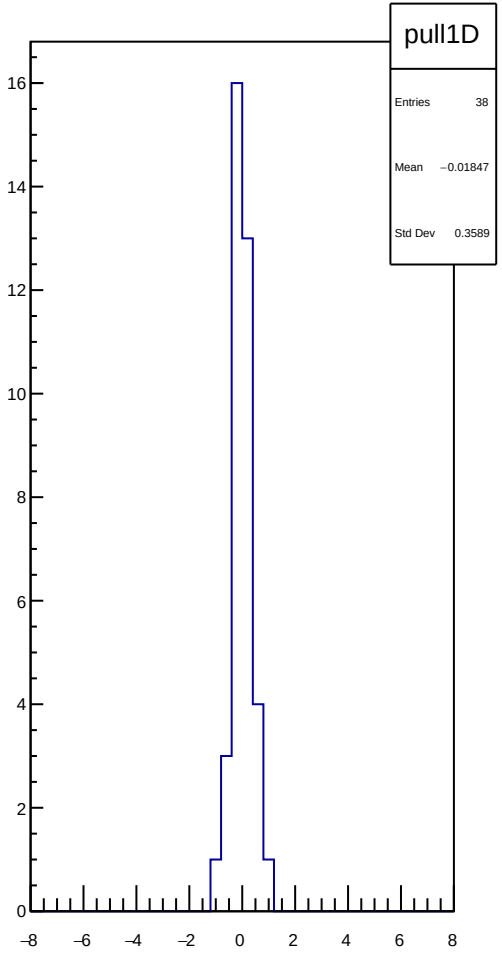

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 5.13 / 37
p0 240.7 ± 3.56
300
280
260
240
220
200
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 27.48
Std Dev 22.24
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

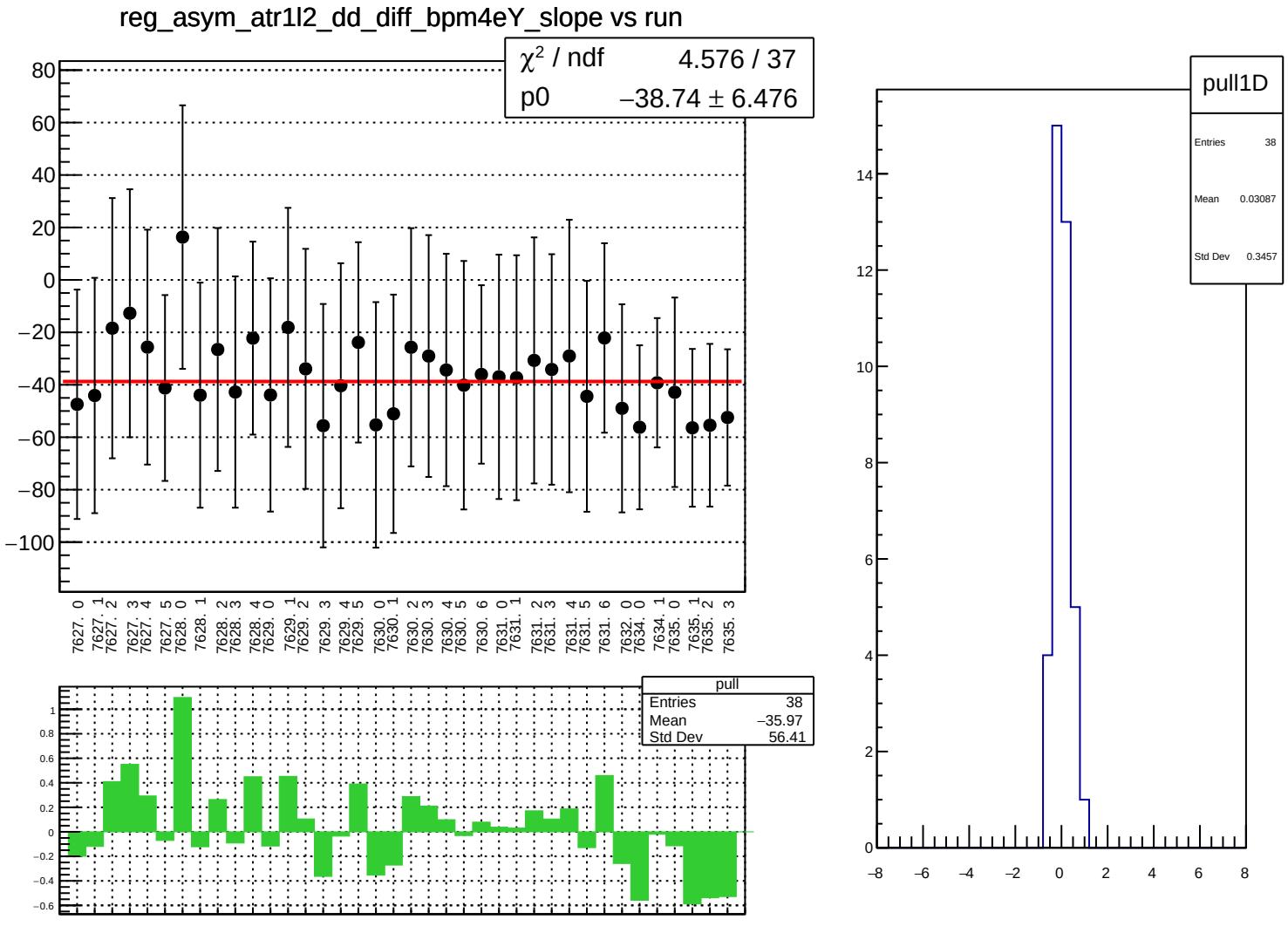

pull1D
Entries 38
Mean 0.0187
Std Dev 0.3669
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

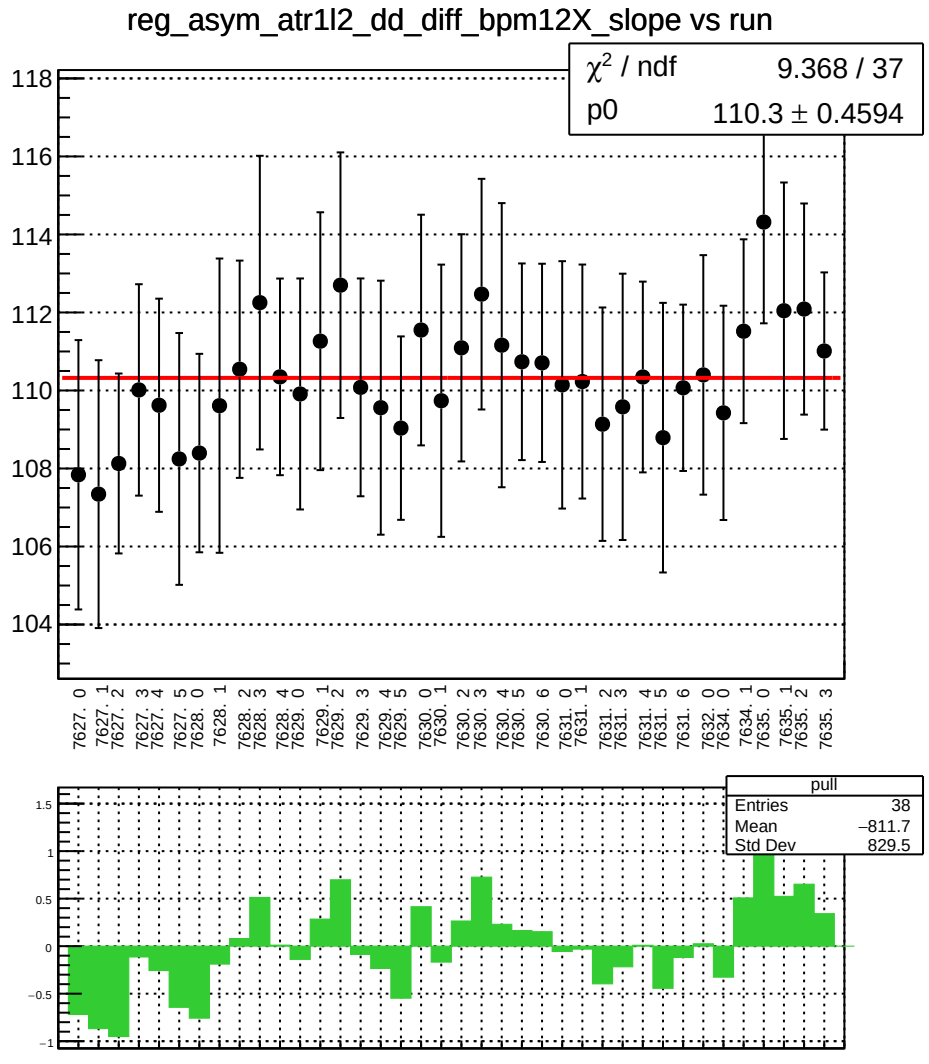

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.842 / 37
p0 −23.3 ± 4.407
20
0
−20
−40
−60
−80
−100
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −33.46
Std Dev 53.94
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

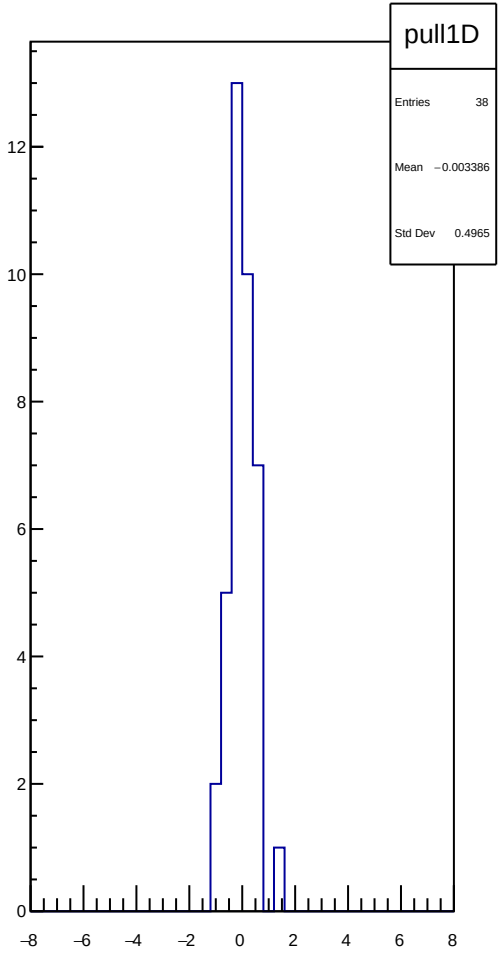

pull1D
Entries 38
Mean −0.03569
Std Dev 0.3552
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

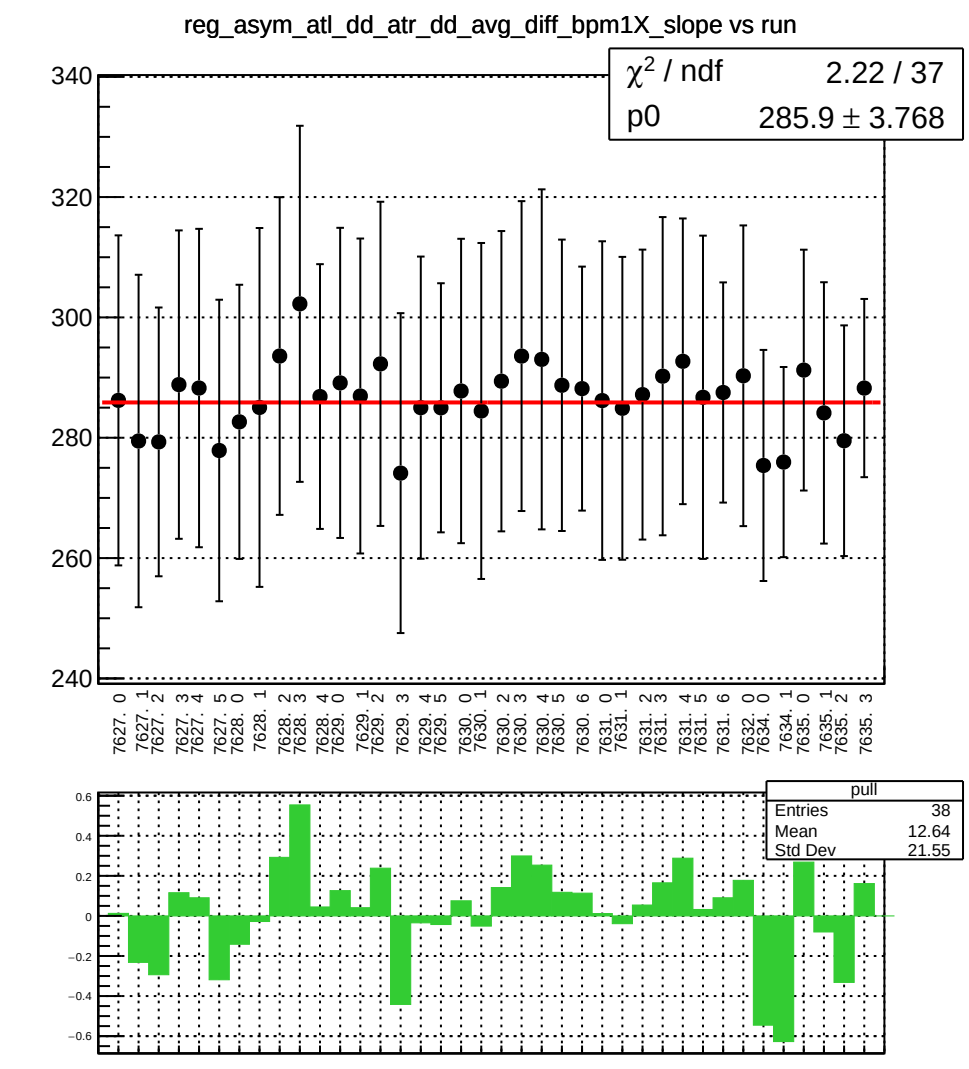

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.908 / 37
p0 −222.6 ± 2.842
pull
Entries 38
Mean 23.41
Std Dev 19

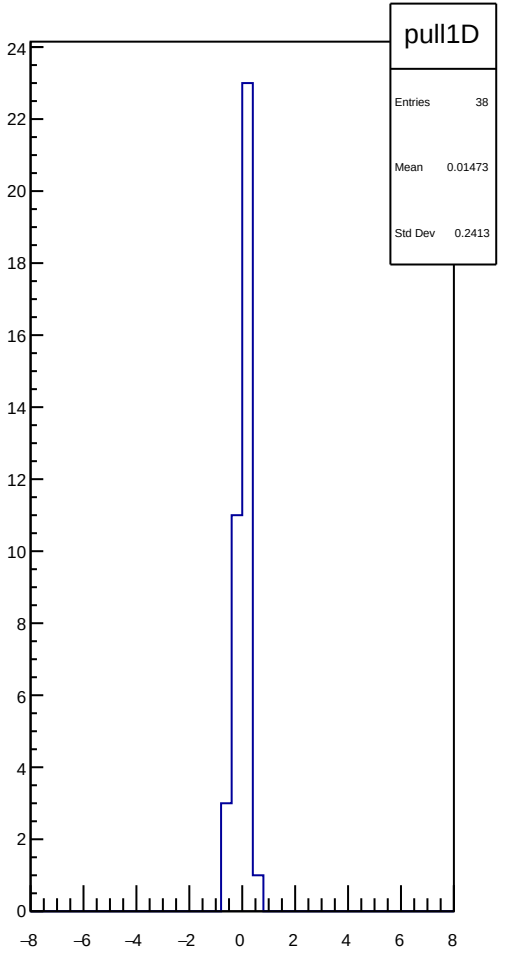

pull1D
Entries 38
Mean −0.01847
Std Dev 0.3589

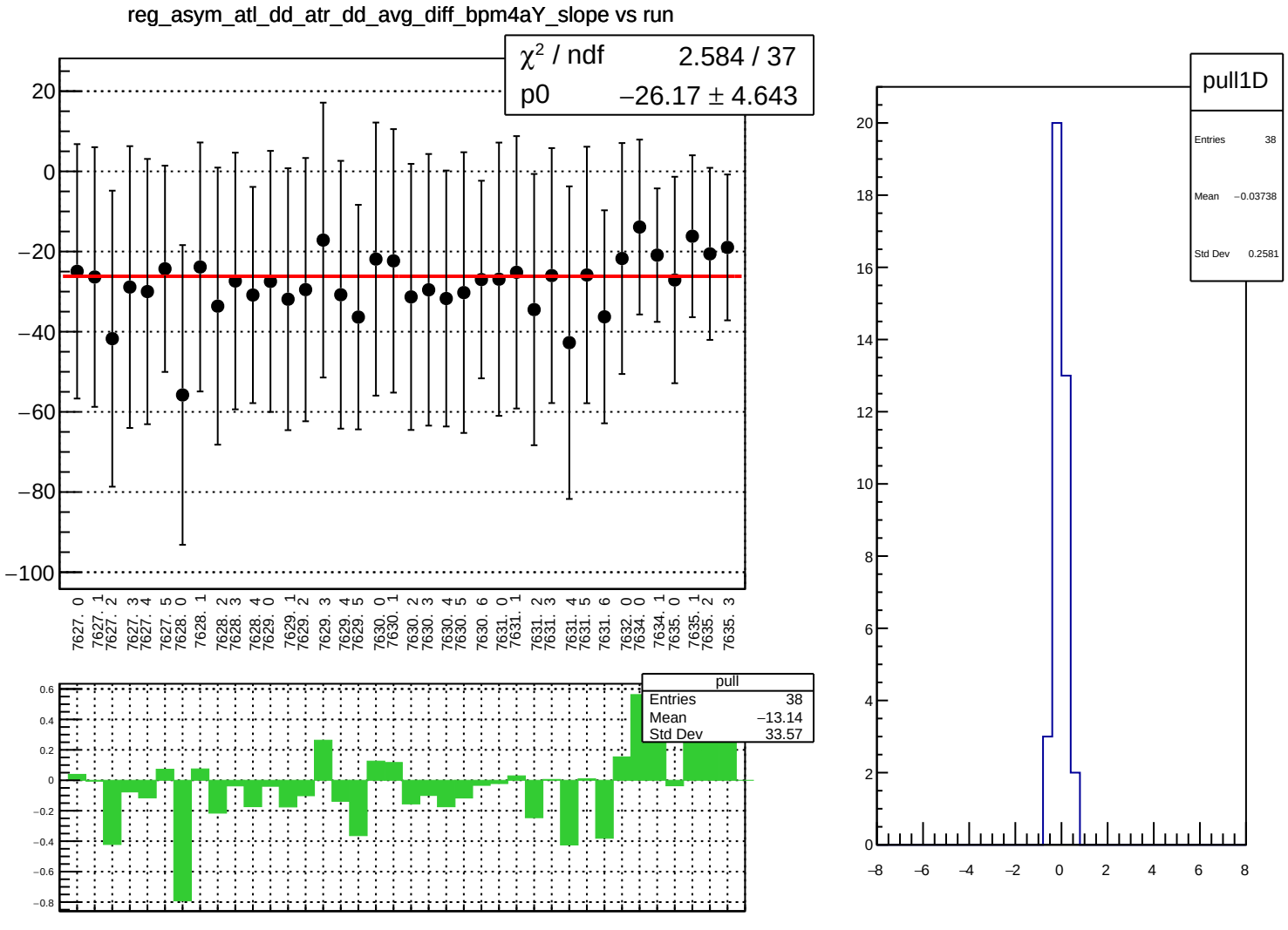

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.576 / 37
p0 −38.74 ± 6.476
pull
Entries 38
Mean −35.97
Std Dev 56.41
pull1D
Entries 38
Mean 0.03087
Std Dev 0.3457

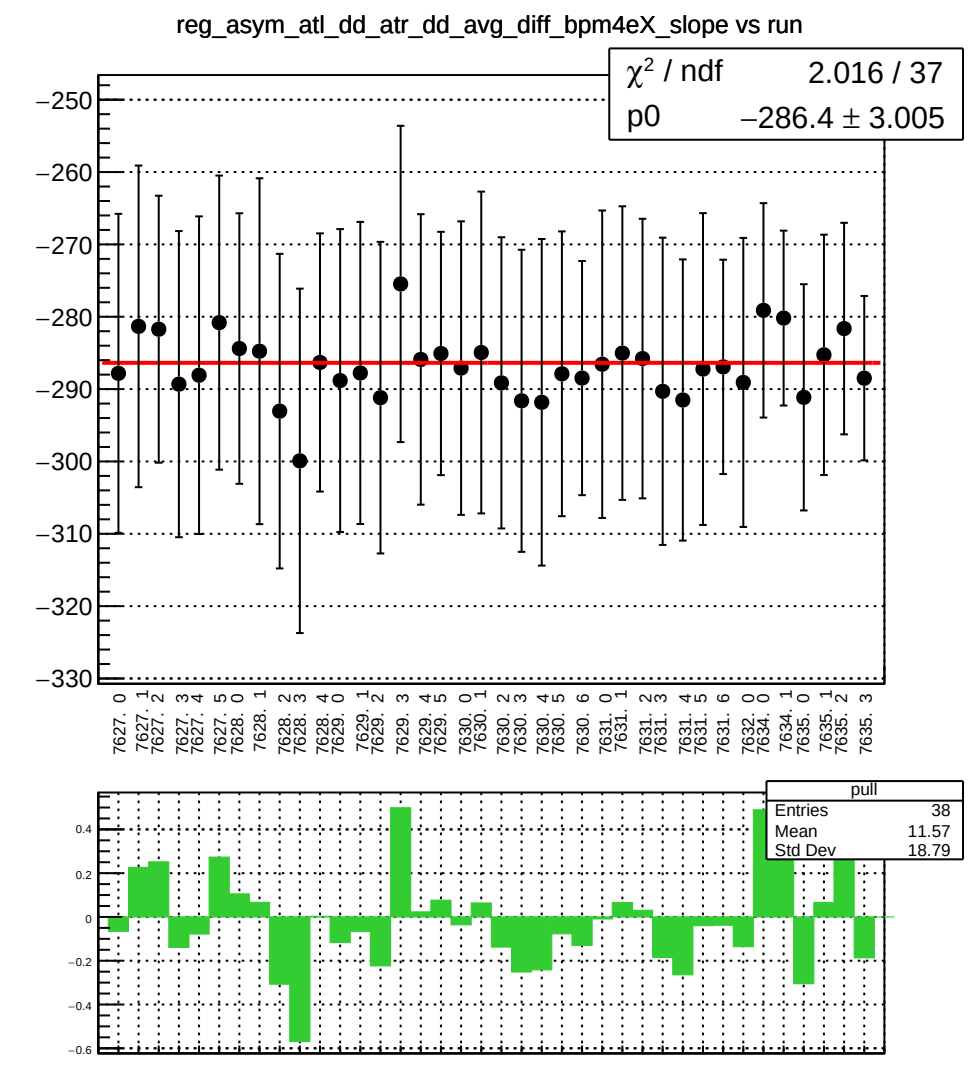

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 9.368 / 37
p0 110.3 ± 0.4594
pull
Entries 38
Mean −811.7
Std Dev 829.5

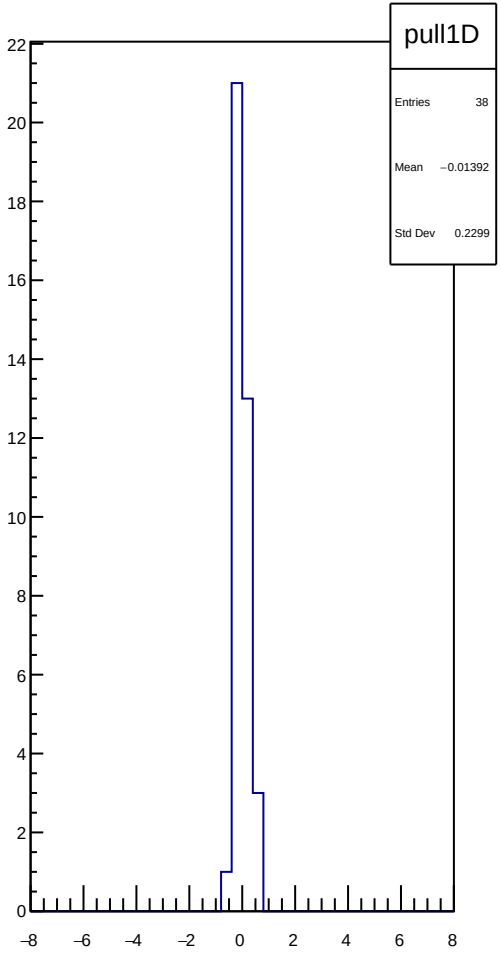

pull1D
Entries 38
Mean −0.003386
Std Dev 0.4965

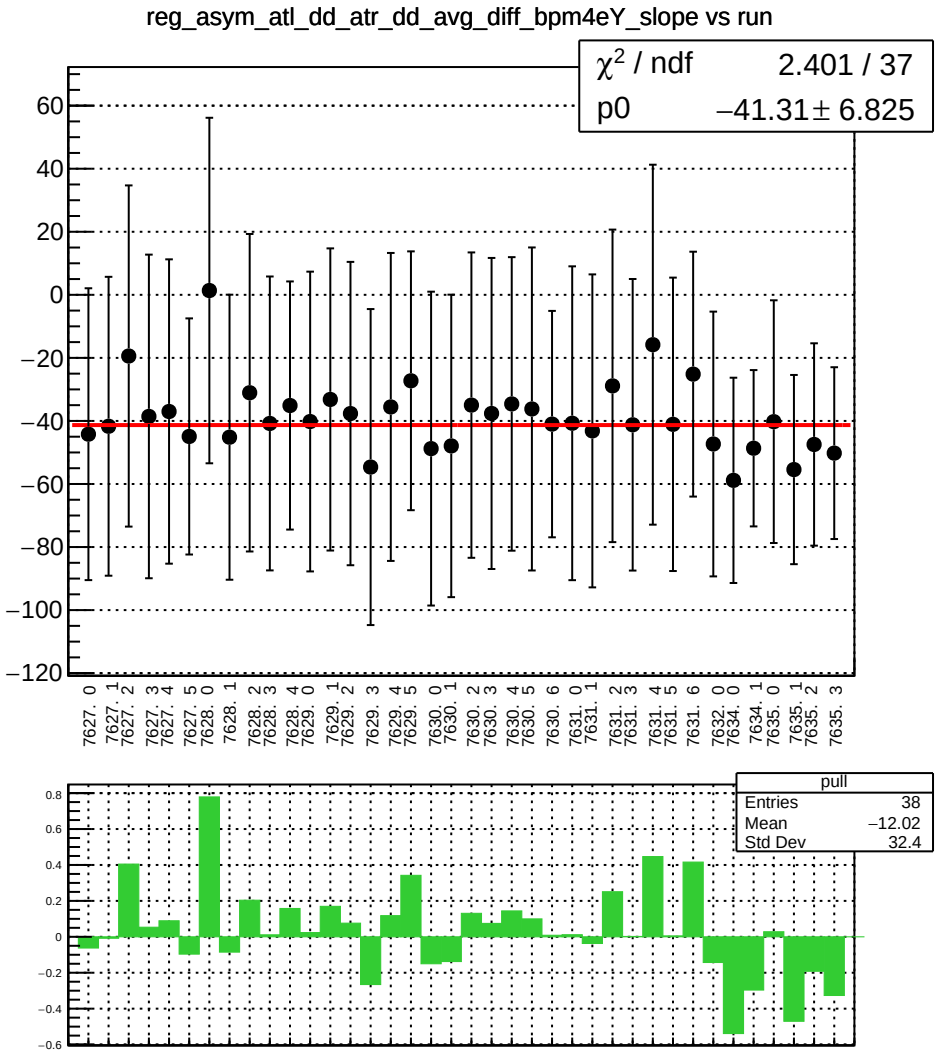

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 2.22 / 37
p0 285.9 ± 3.768
340
320
300
280
260
240
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 12.64
Std Dev 21.55
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

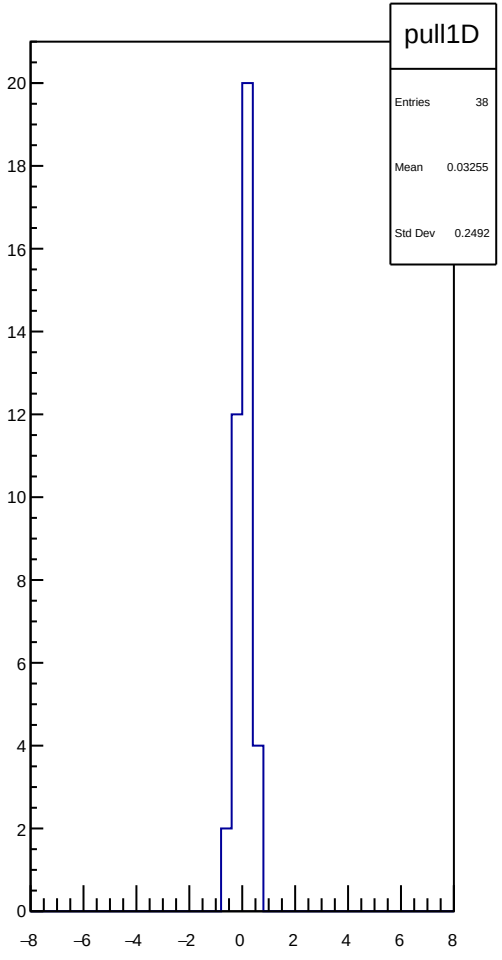

pull1D
Entries 38
Mean 0.01473
Std Dev 0.2413
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

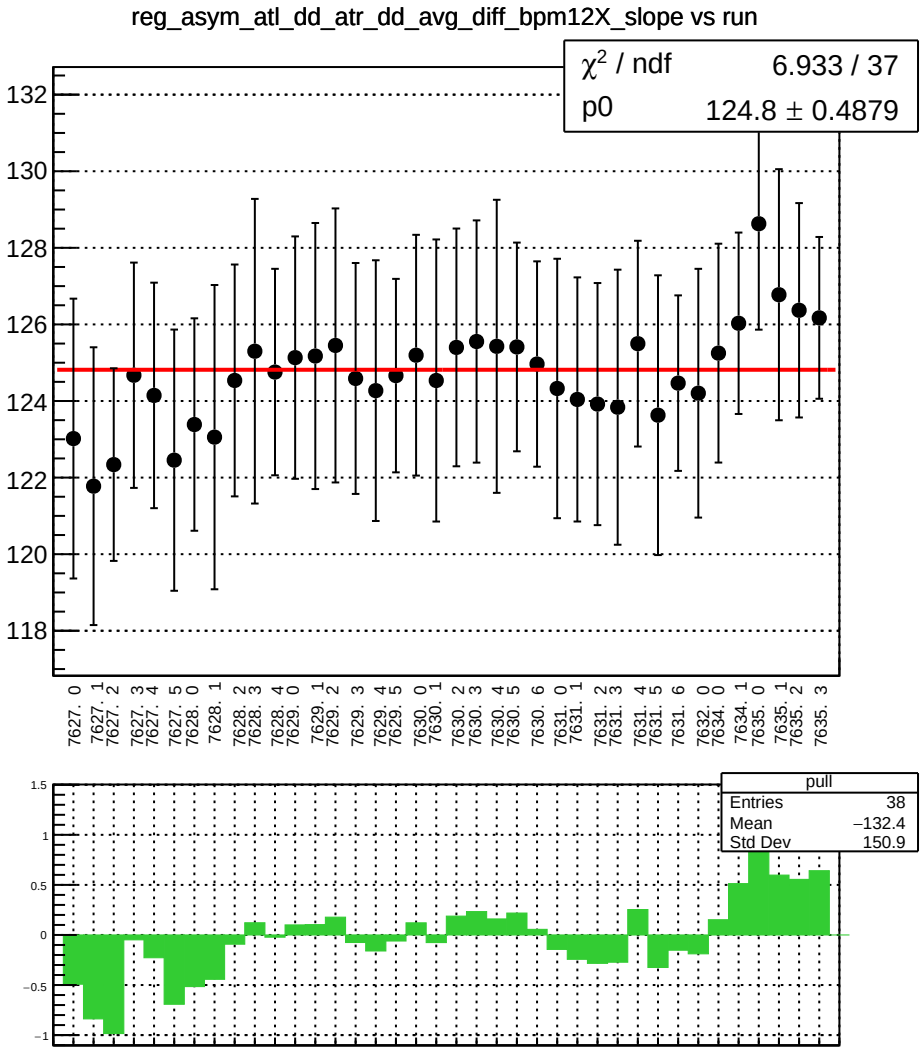

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.584 / 37
p0 −26.17 ± 4.643
pull
Entries 38
Mean −13.14
Std Dev 33.57
pull1D
Entries 38
Mean −0.03738
Std Dev 0.2581

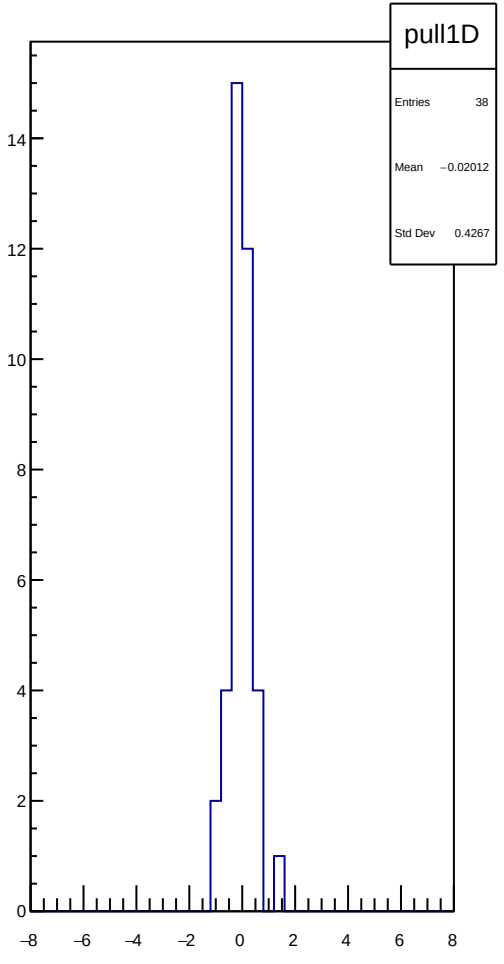

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.016 / 37
p0 −286.4 ± 3.005
pull
Entries 38
Mean 11.57
Std Dev 18.79

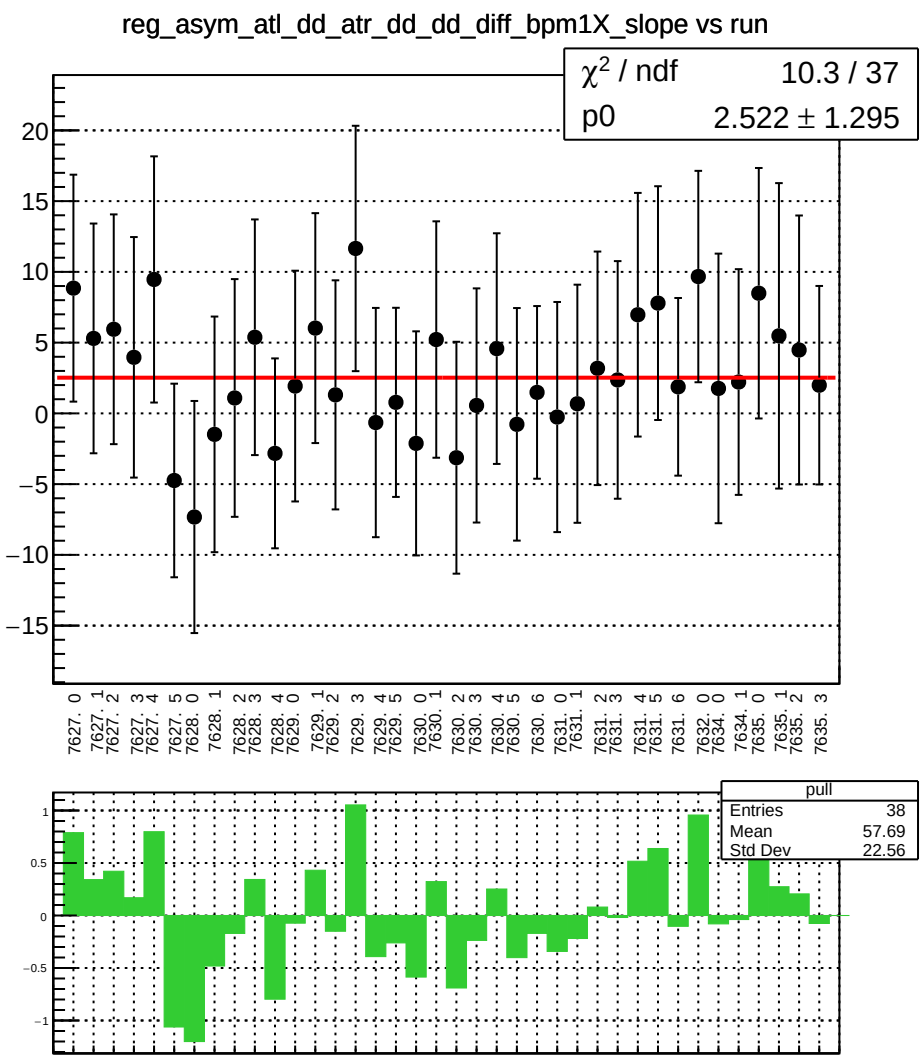

pull1D
Entries 38
Mean −0.01392
Std Dev 0.2299

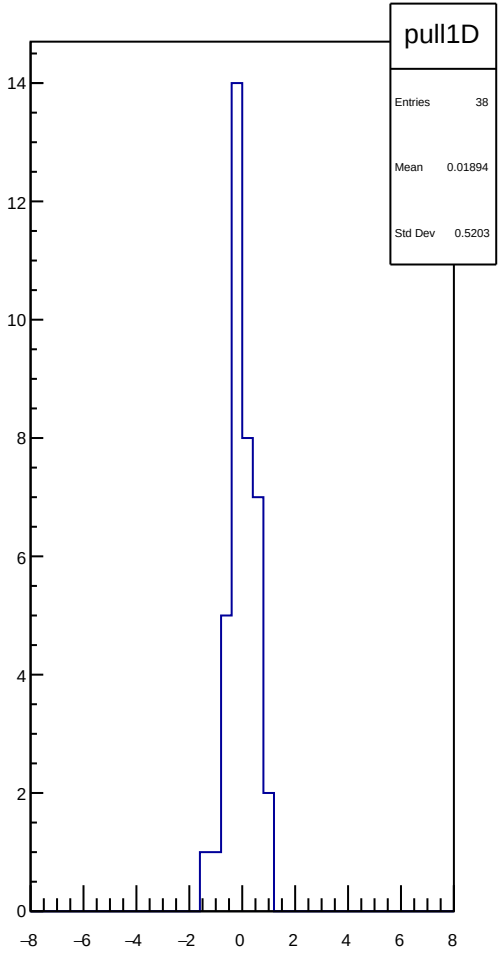

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.401 / 37
p0 −41.31 ± 6.825
pull
Entries 38
Mean −12.02
Std Dev 32.4

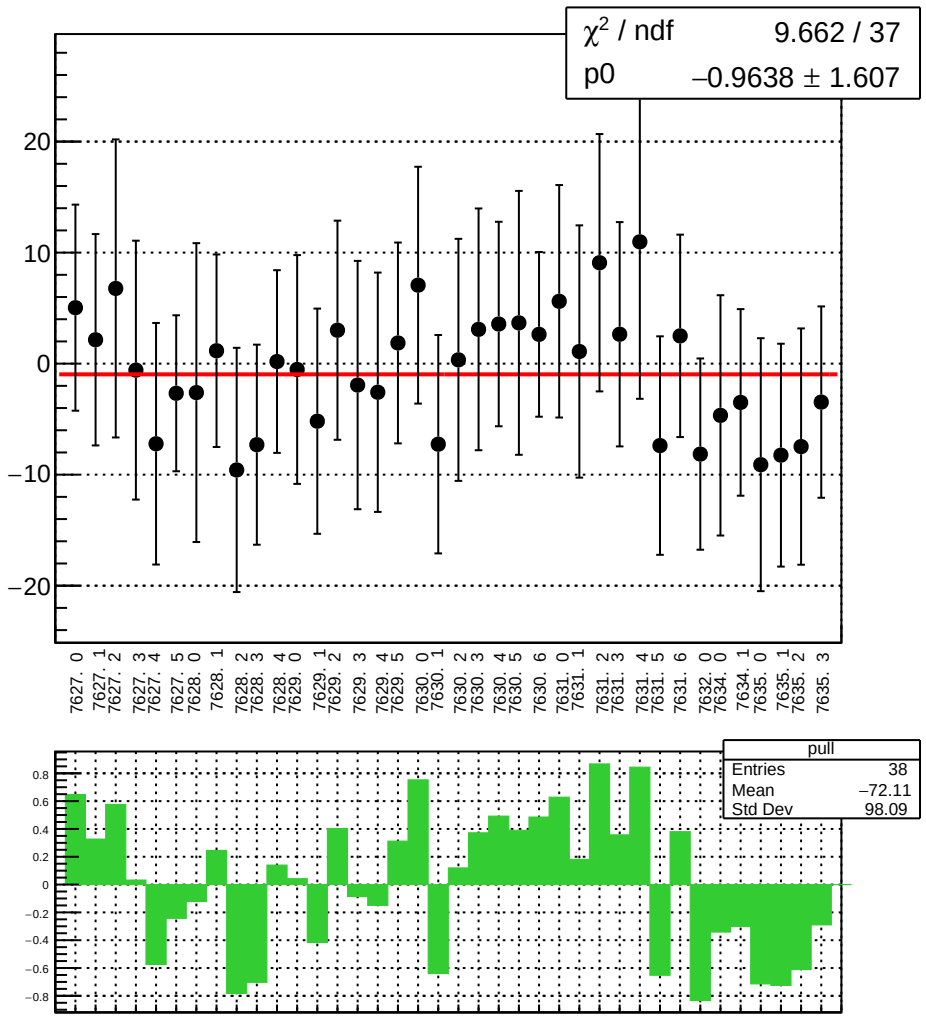

pull1D
Entries 38
Mean 0.03255
Std Dev 0.2492

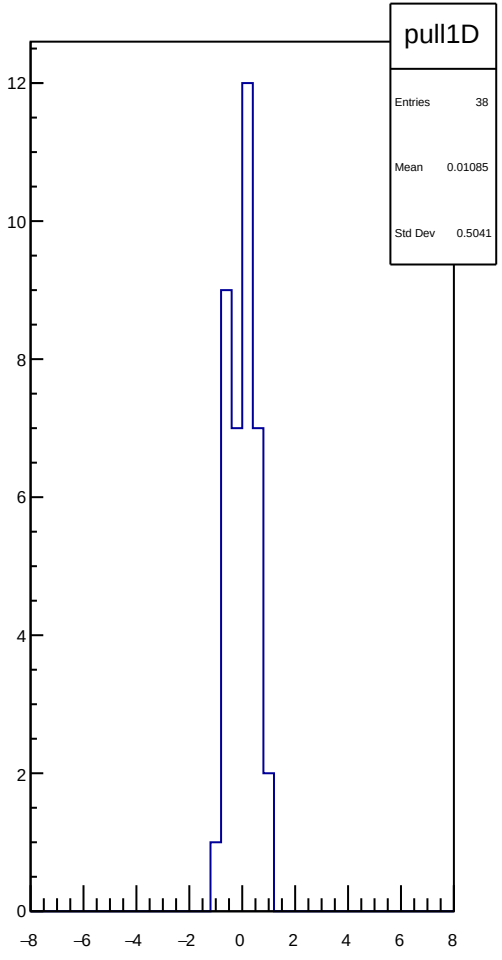

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 6.933 / 37
p0 124.8 ± 0.4879
pull
Entries 38
Mean −132.4
Std Dev 150.9

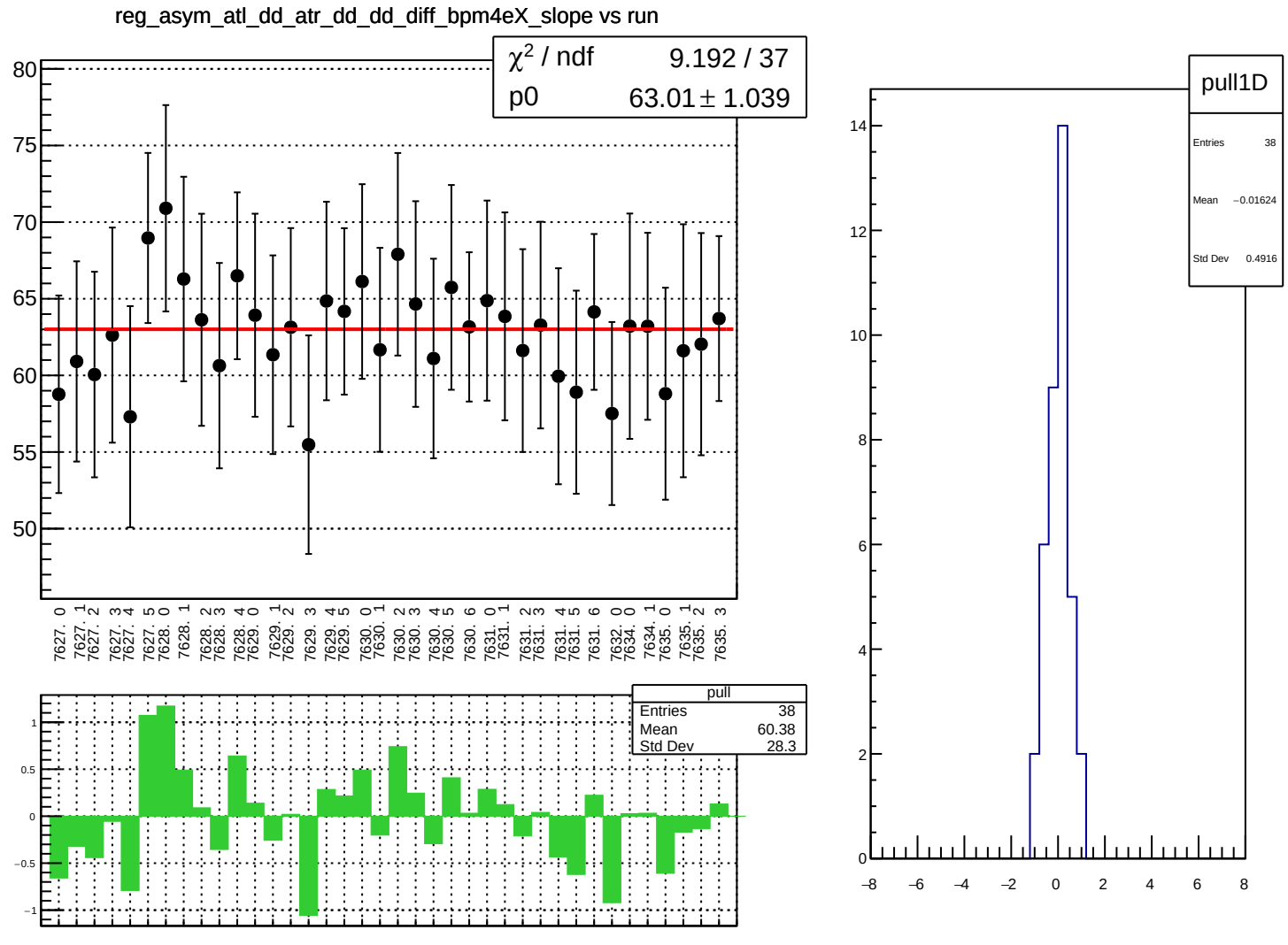

pull1D
Entries 38
Mean −0.02012
Std Dev 0.4267

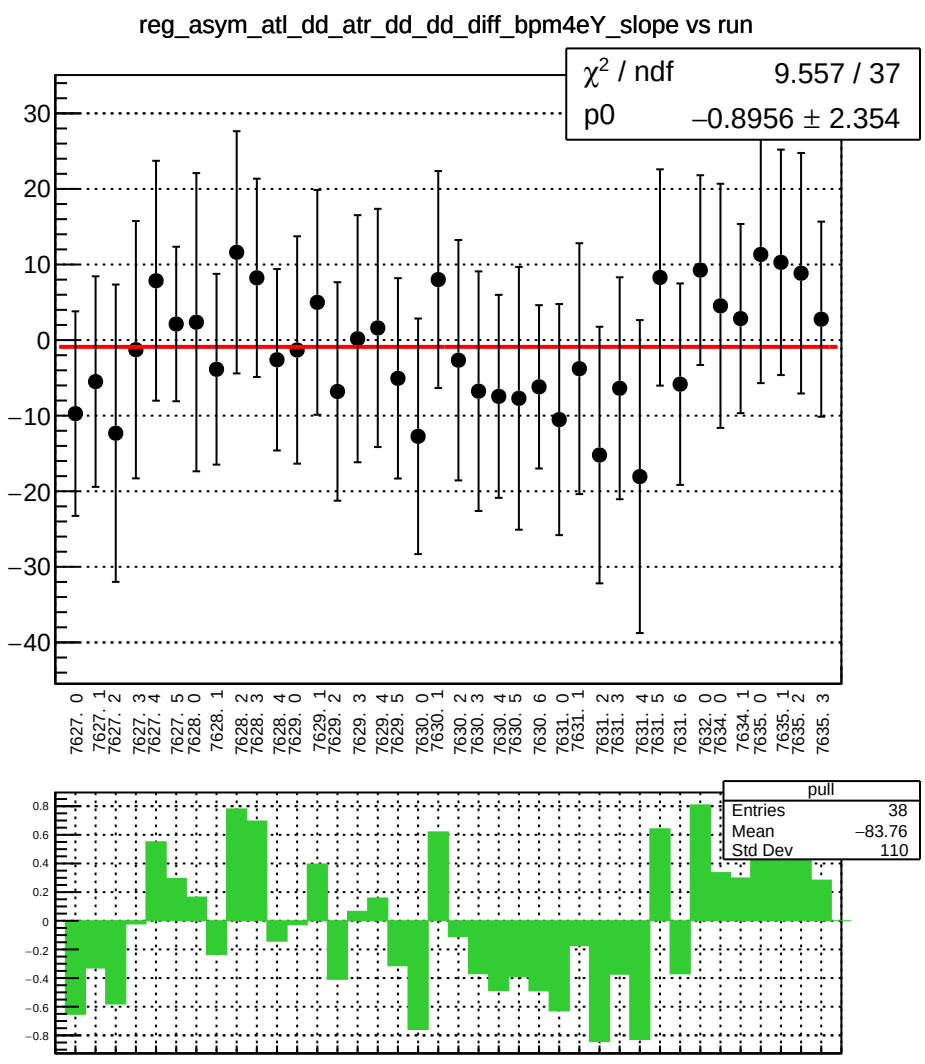

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 10.3 / 37
p0 2.522 ± 1.295
pull
Entries 38
Mean 57.69
Std Dev 22.56

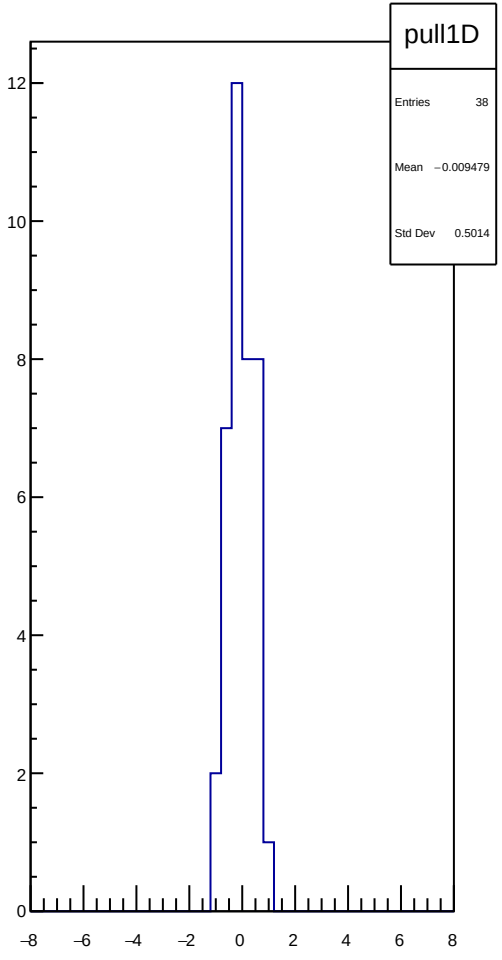

pull1D
Entries 38
Mean 0.01894
Std Dev 0.5203

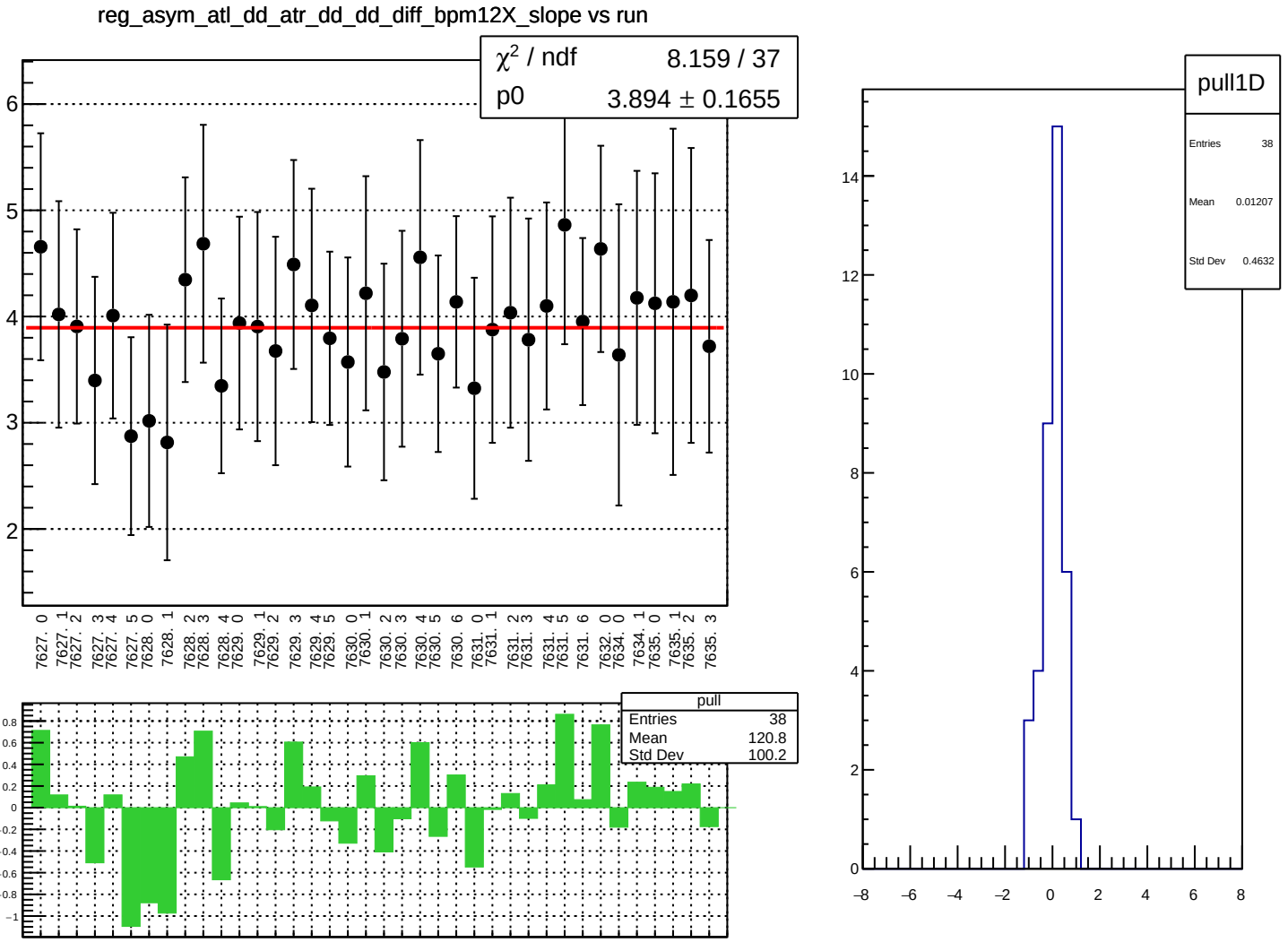

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.662 / 37
p0 −0.9638 ± 1.607
pull
Entries 38
Mean −72.11
Std Dev 98.09

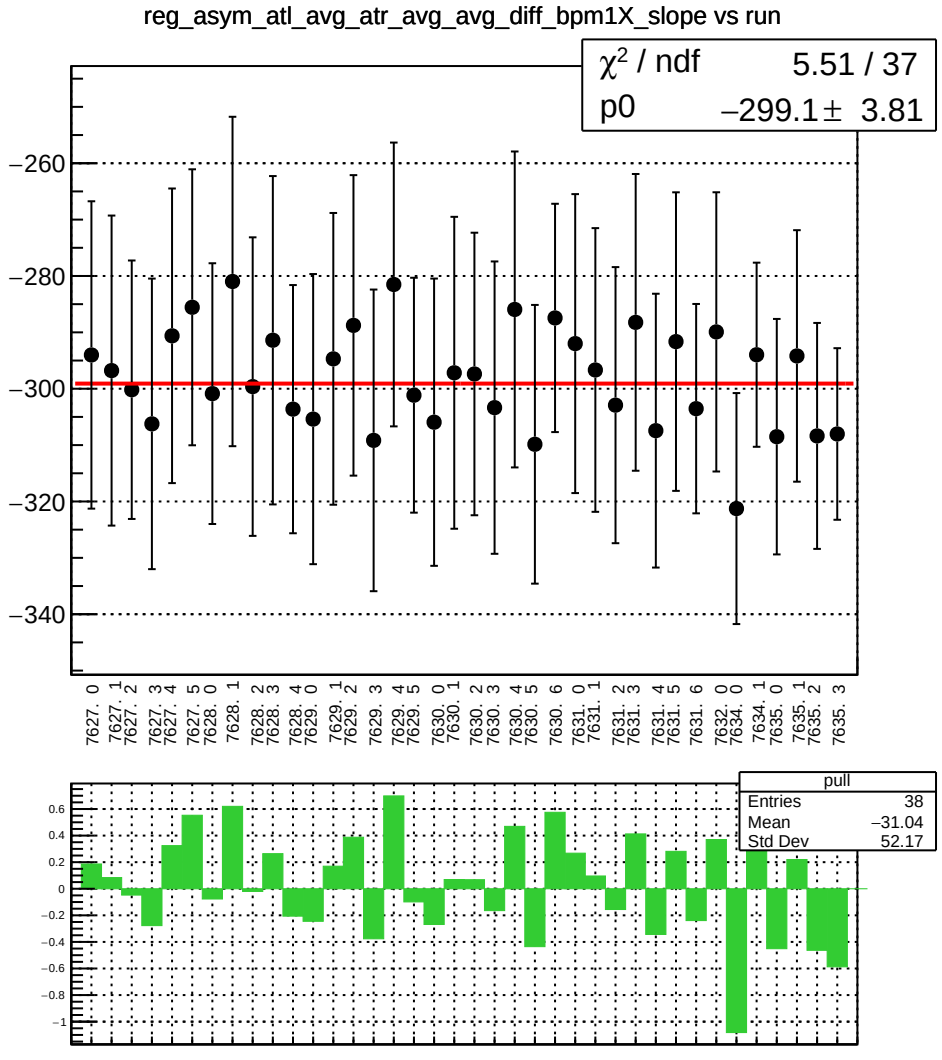

pull1D
Entries 38
Mean 0.01085
Std Dev 0.5041

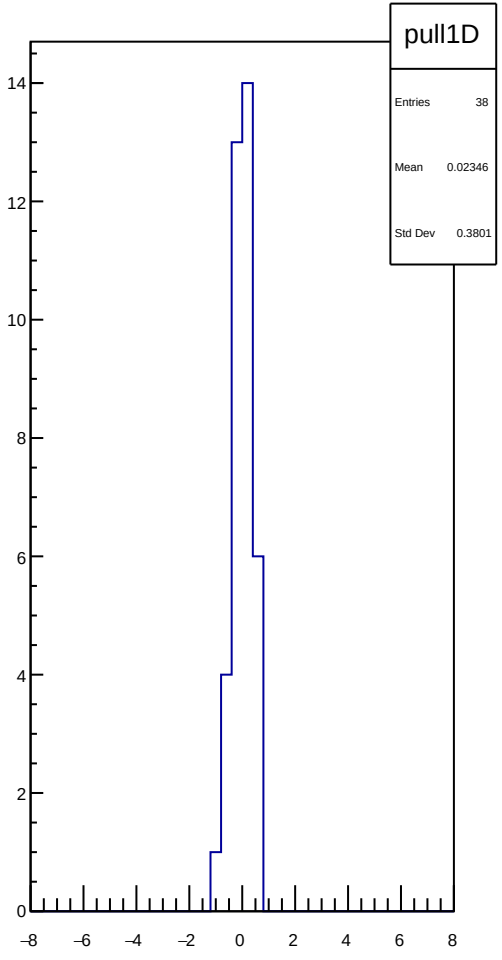

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.192 / 37
p0 63.01 ± 1.039
80
75
70
65
60
55
50
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 60.38
Std Dev 28.3
1
0.5
0
−0.5
−1
pull1D
Entries 38
Mean −0.01624
Std Dev 0.4916
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

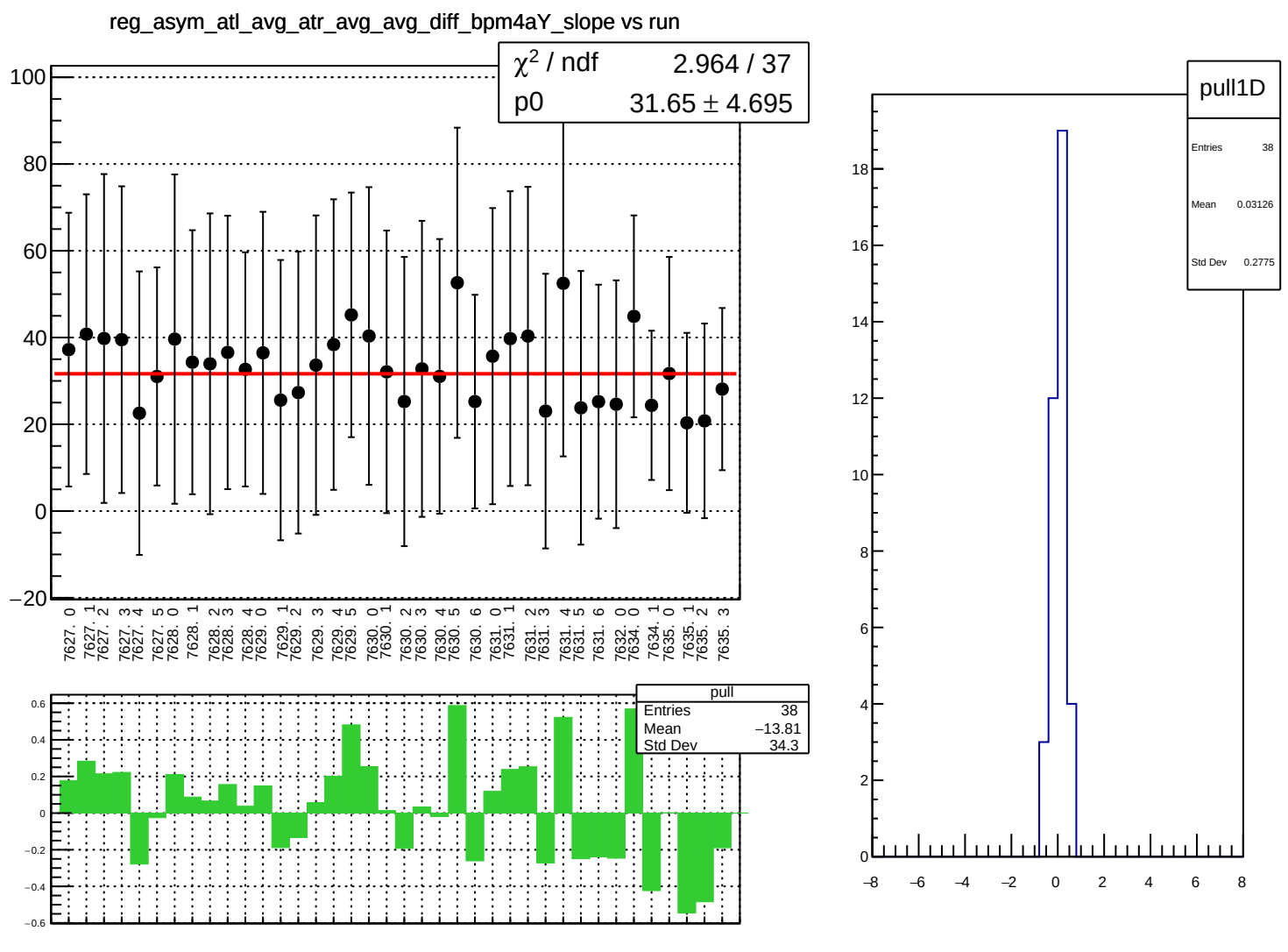

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.557 / 37
p0 −0.8956 ± 2.354
pull
Entries 38
Mean −83.76
Std Dev 110

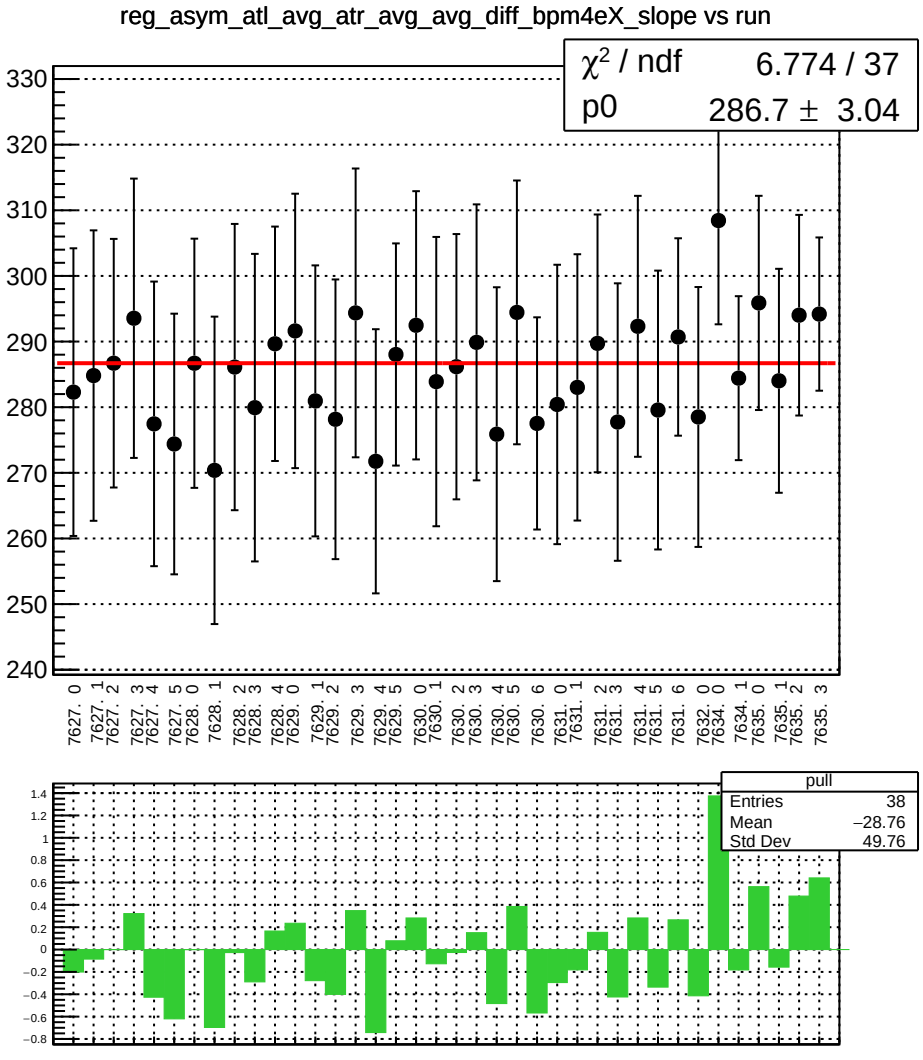

pull1D
Entries 38
Mean −0.009479
Std Dev 0.5014

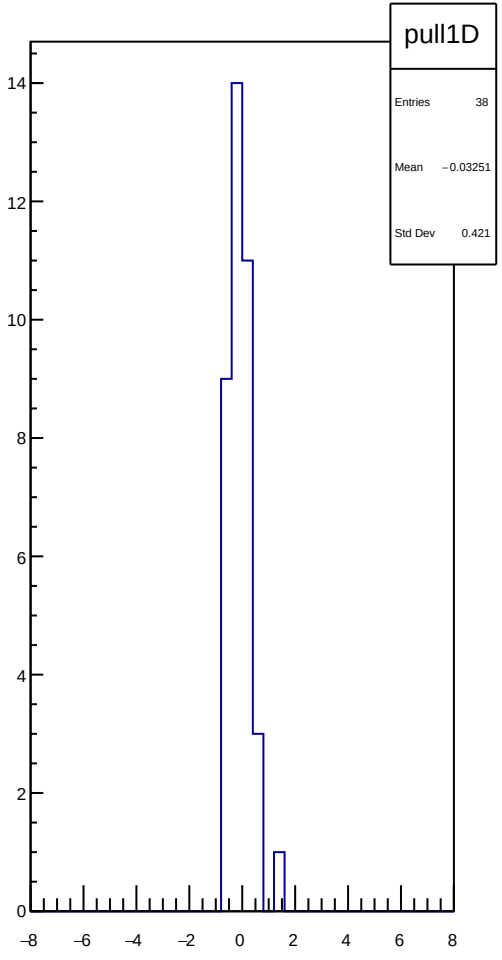

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 8.159 / 37
p0 3.894 ± 0.1655
pull
Entries 38
Mean 120.8
Std Dev 100.2
pull1D
Entries 38
Mean 0.01207
Std Dev 0.4632

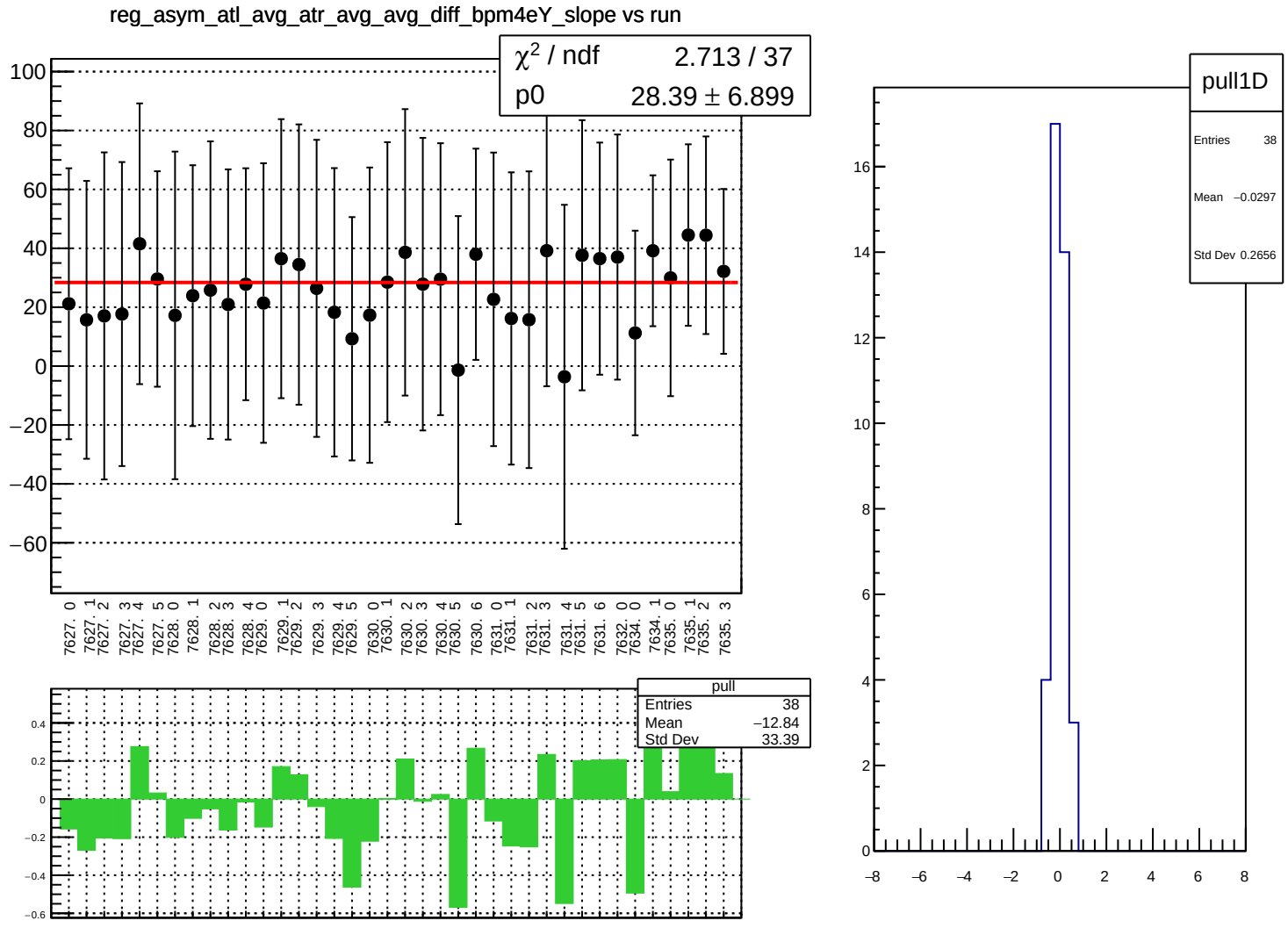

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 5.51 / 37
p0 −299.1 ± 3.81
−260
−280
−300
−320
−340
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −31.04
Std Dev 52.17
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

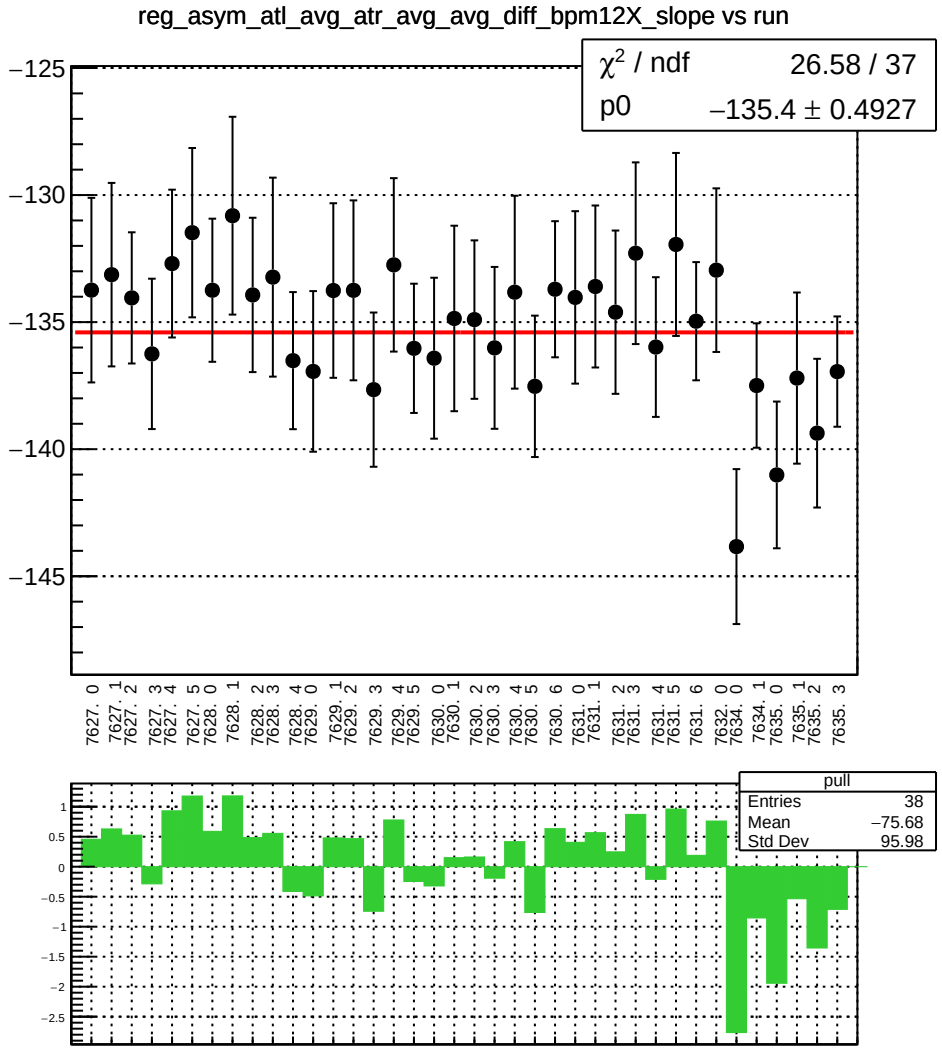

pull1D
Entries 38
Mean 0.02346
Std Dev 0.3801
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

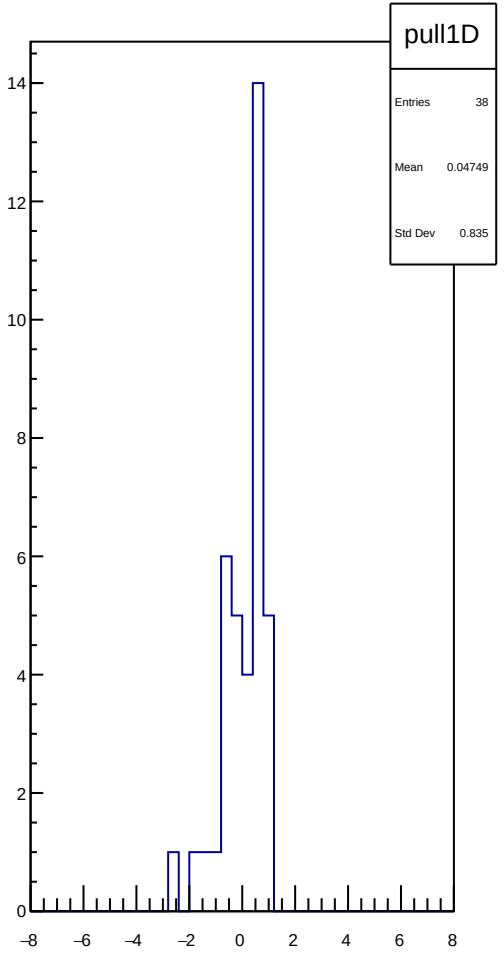

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.964 / 37
p0 31.65 ± 4.695
pull
Entries 38
Mean −13.81
Std Dev 34.3
pull1D
Entries 38
Mean 0.03126
Std Dev 0.2775

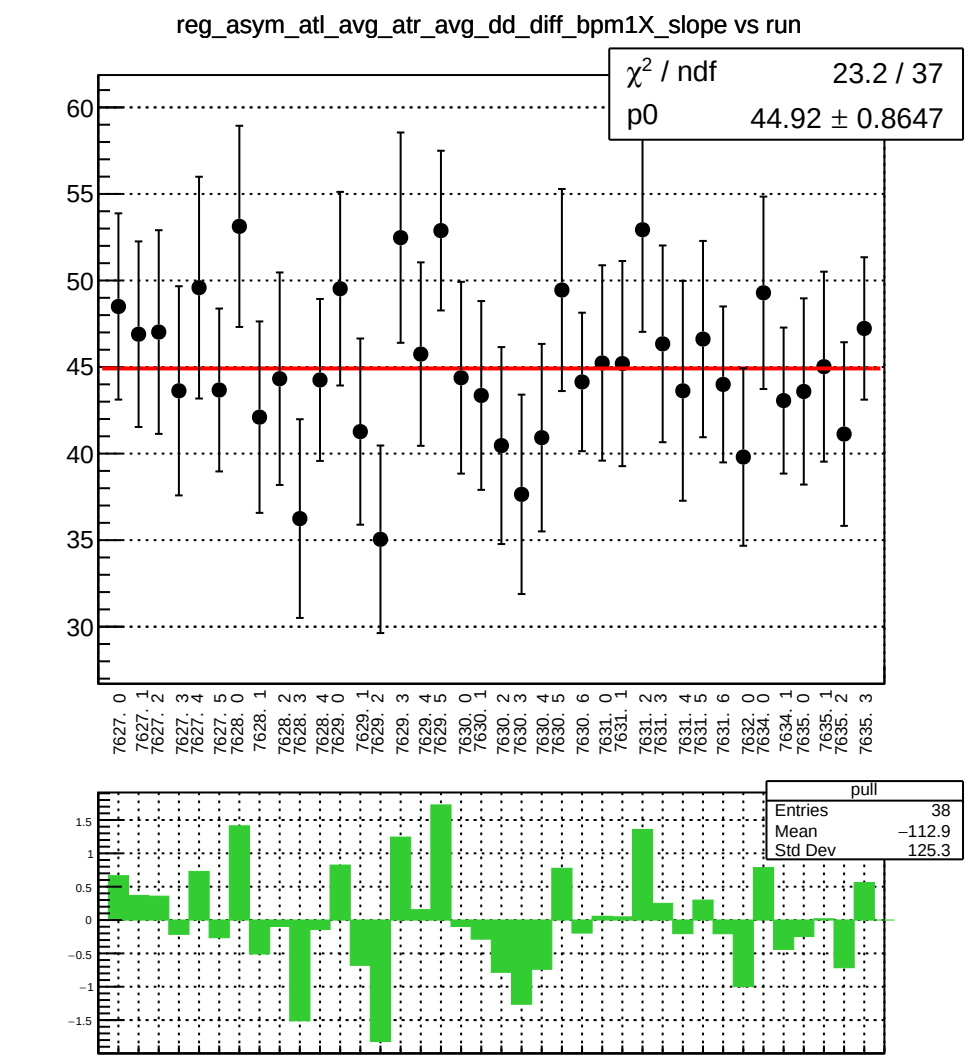

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.774 / 37
p0 286.7 ± 3.04
330
320
310
300
290
280
270
260
250
240
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −28.76
Std Dev 49.76
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

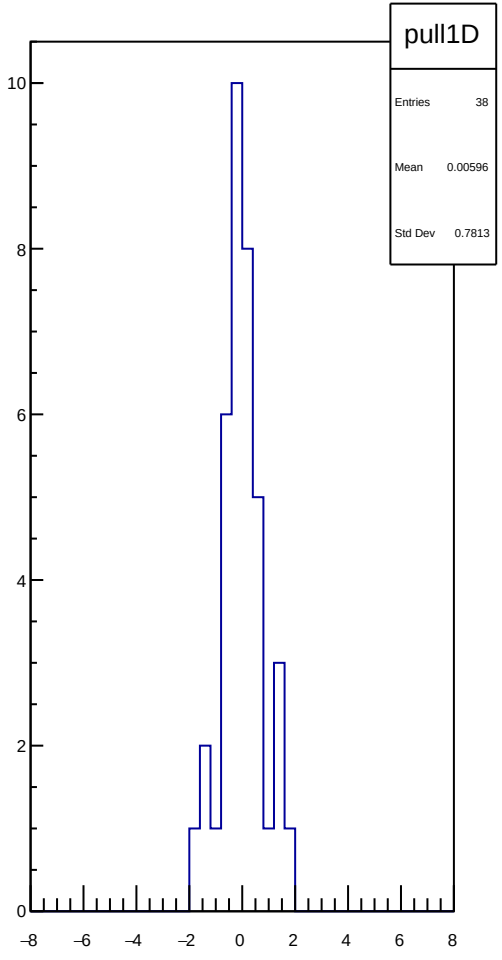

pull1D
Entries 38
Mean −0.03251
Std Dev 0.421
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

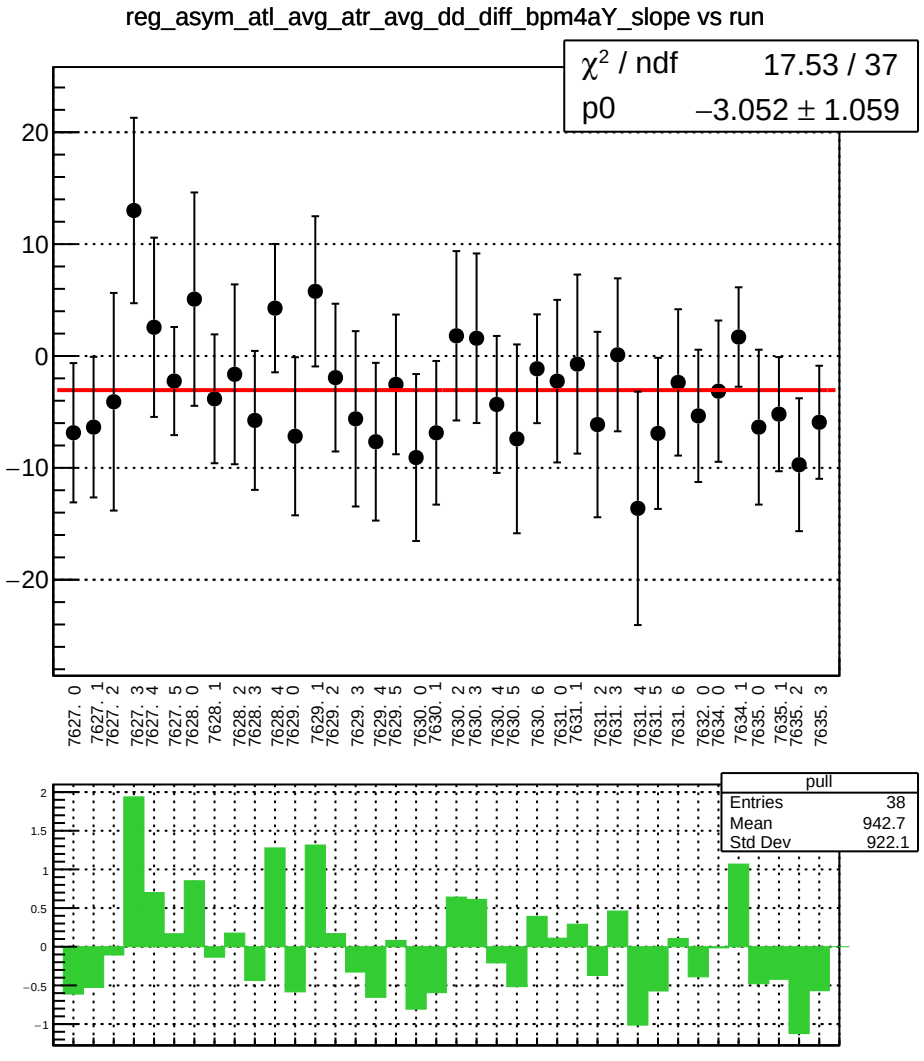

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.713 / 37
p0 28.39 ± 6.899
pull
Entries 38
Mean −12.84
Std Dev 33.39
pull1D
Entries 38
Mean −0.0297
Std Dev 0.2656

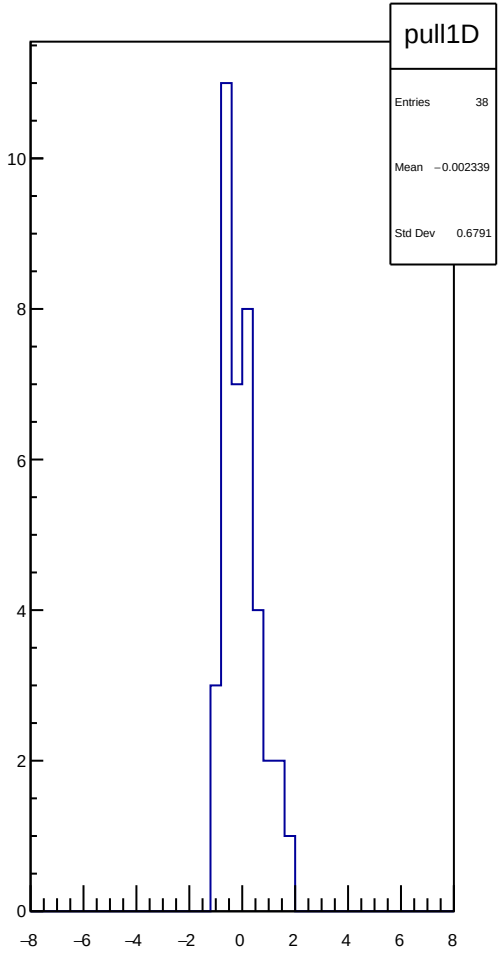

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 26.58 / 37
p0 −135.4 ± 0.4927
−125
−130
−135
−140
−145
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −75.68
Std Dev 95.98
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

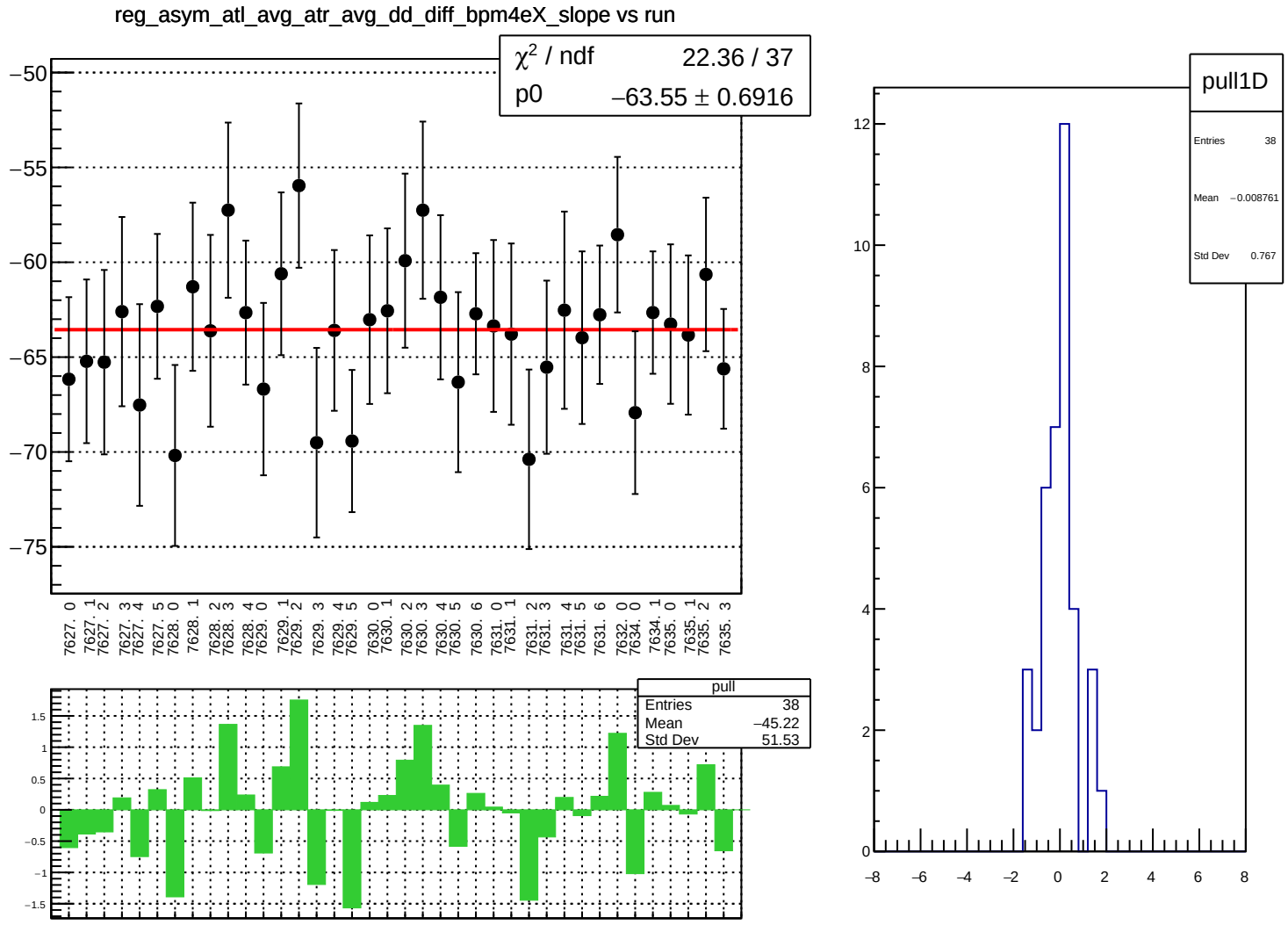

pull1D
Entries 38
Mean 0.04749
Std Dev 0.835
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

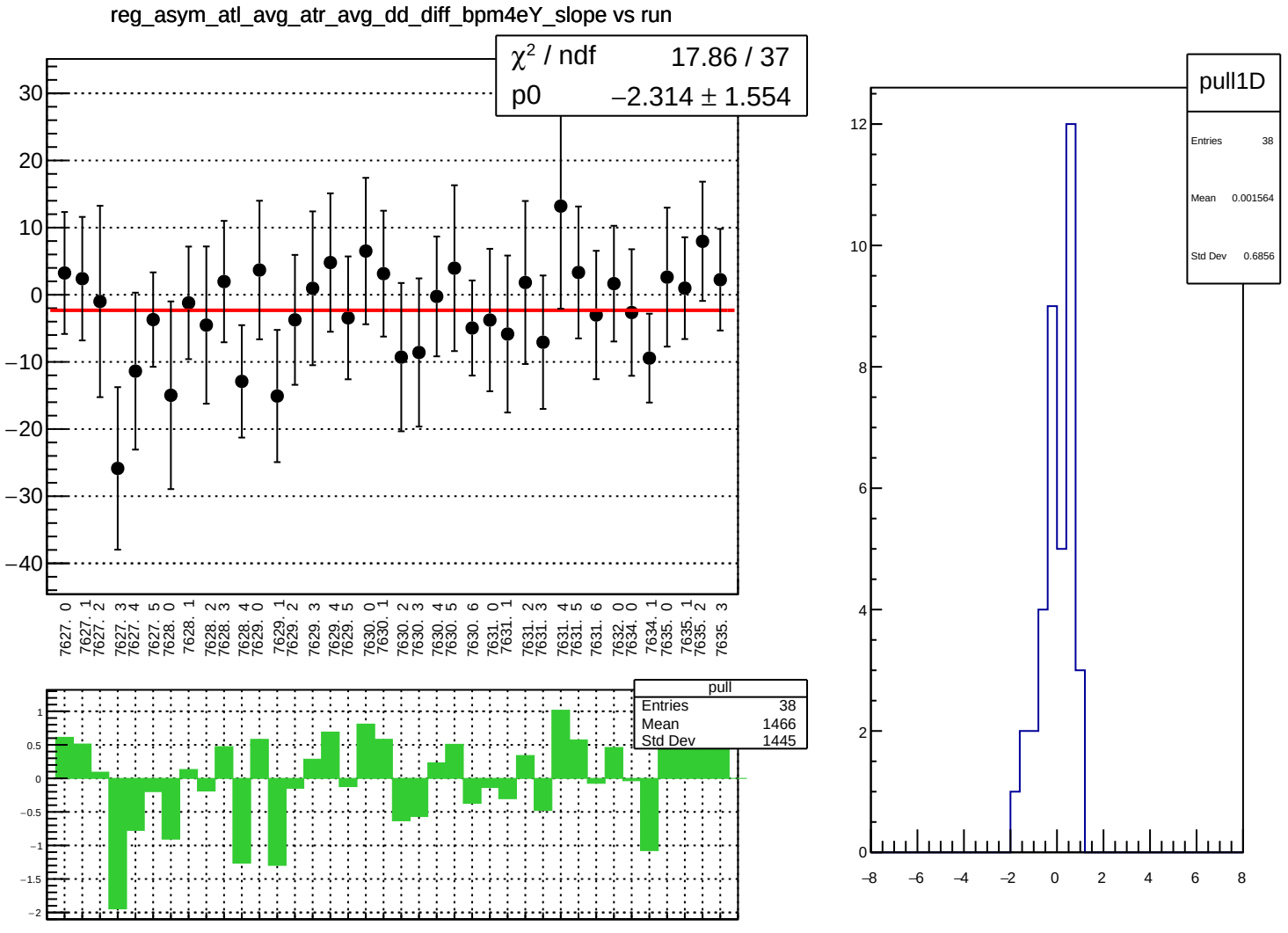

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 23.2 / 37
p0 44.92 ± 0.8647
pull
Entries 38
Mean −112.9
Std Dev 125.3

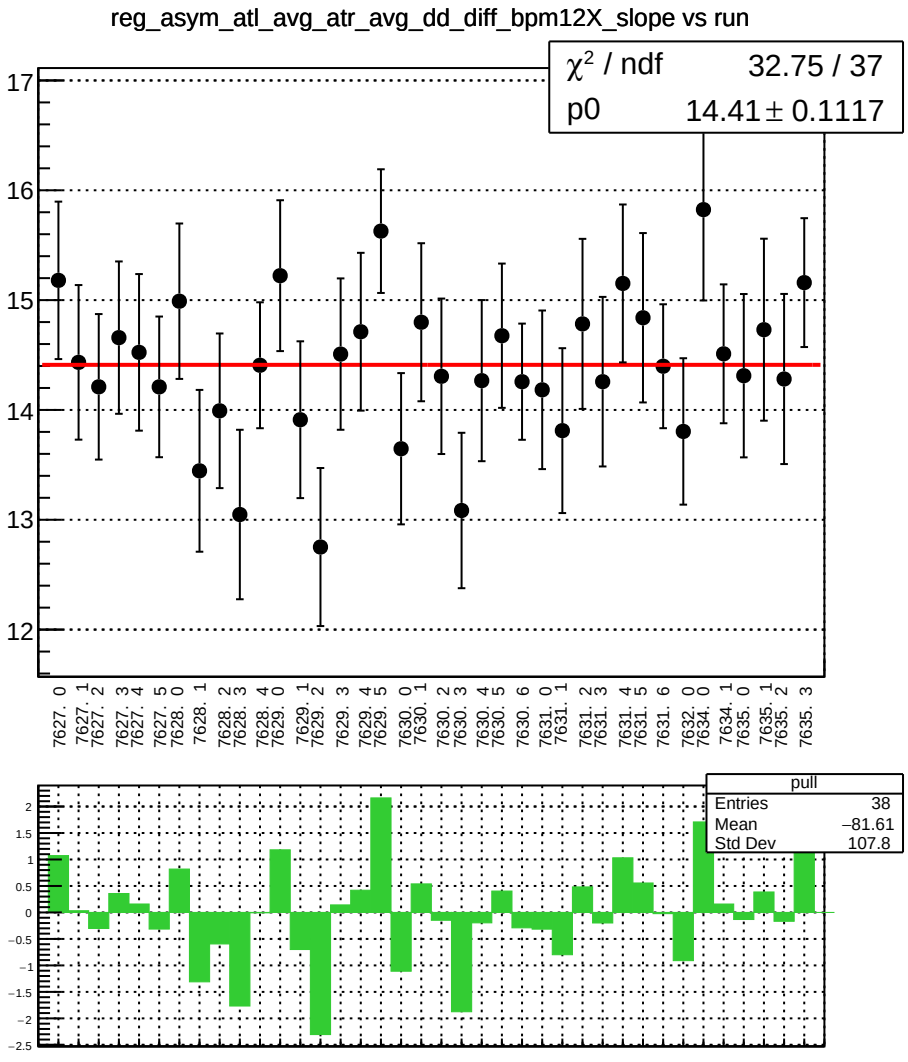

pull1D
Entries 38
Mean 0.00596
Std Dev 0.7813

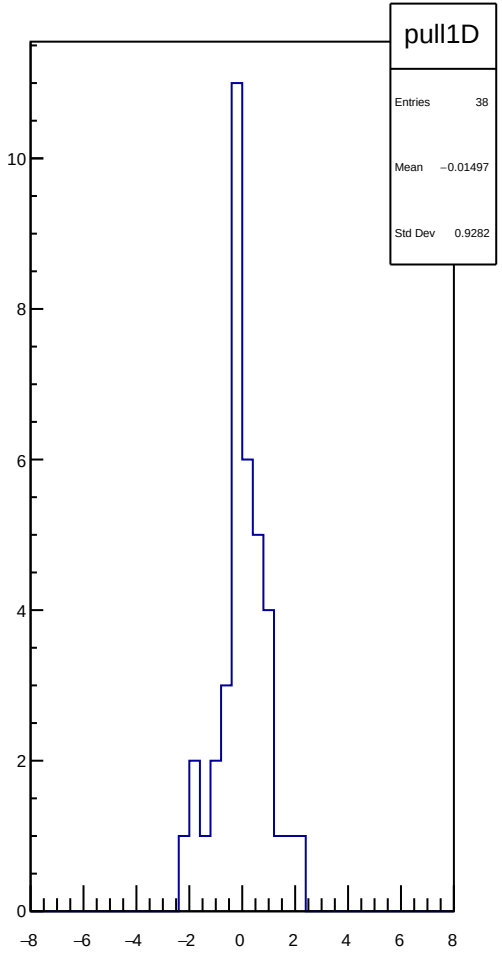

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 17.53 / 37
p0 −3.052 ± 1.059
20
10
0
−10
−20
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 4
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean 942.7
Std Dev 922.1
2
1.5
1
0.5
0
−0.5
−1

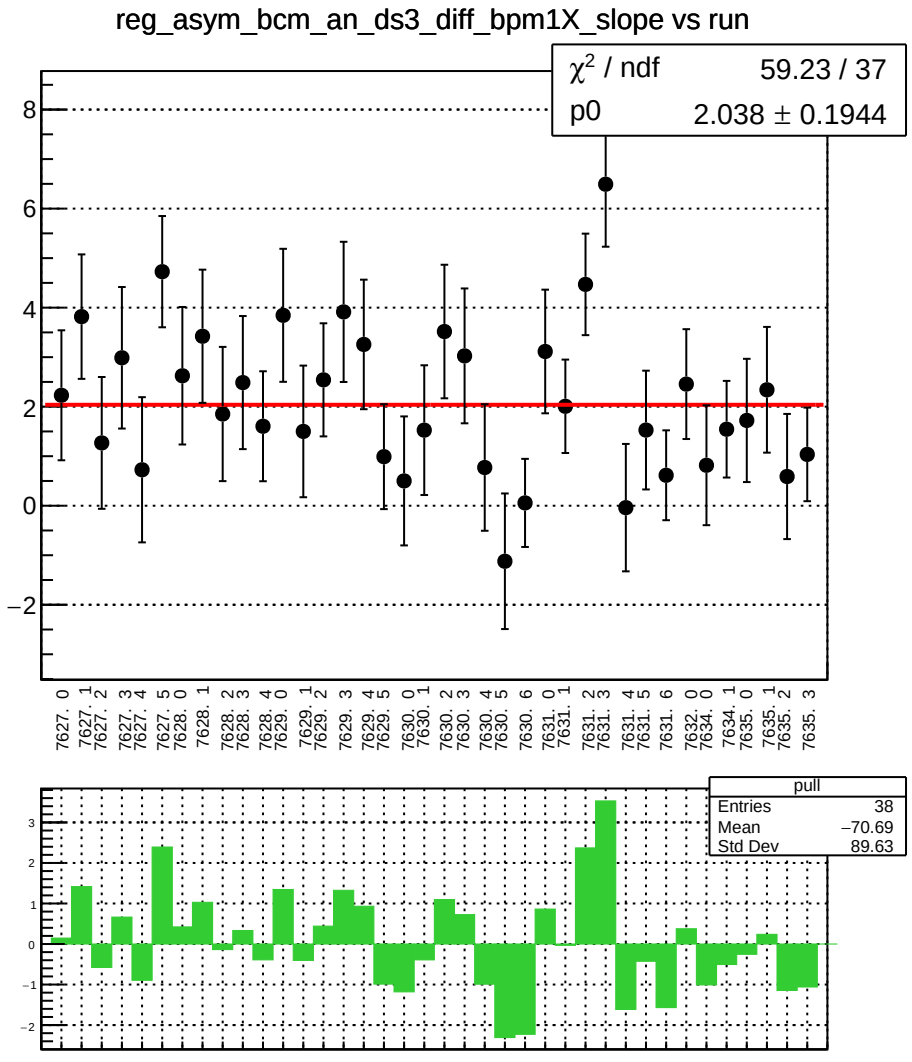

pull1D
Entries 38
Mean −0.002339
Std Dev 0.6791
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

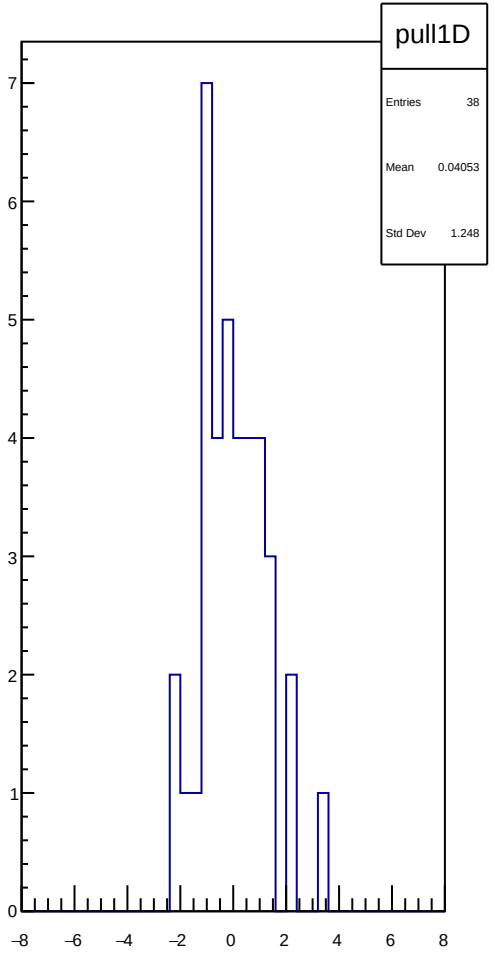

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 22.36 / 37
p0 −63.55 ± 0.6916
−50
−55
−60
−65
−70
−75
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 4
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −45.22
Std Dev 51.53
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 38
Mean −0.008761
Std Dev 0.767
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

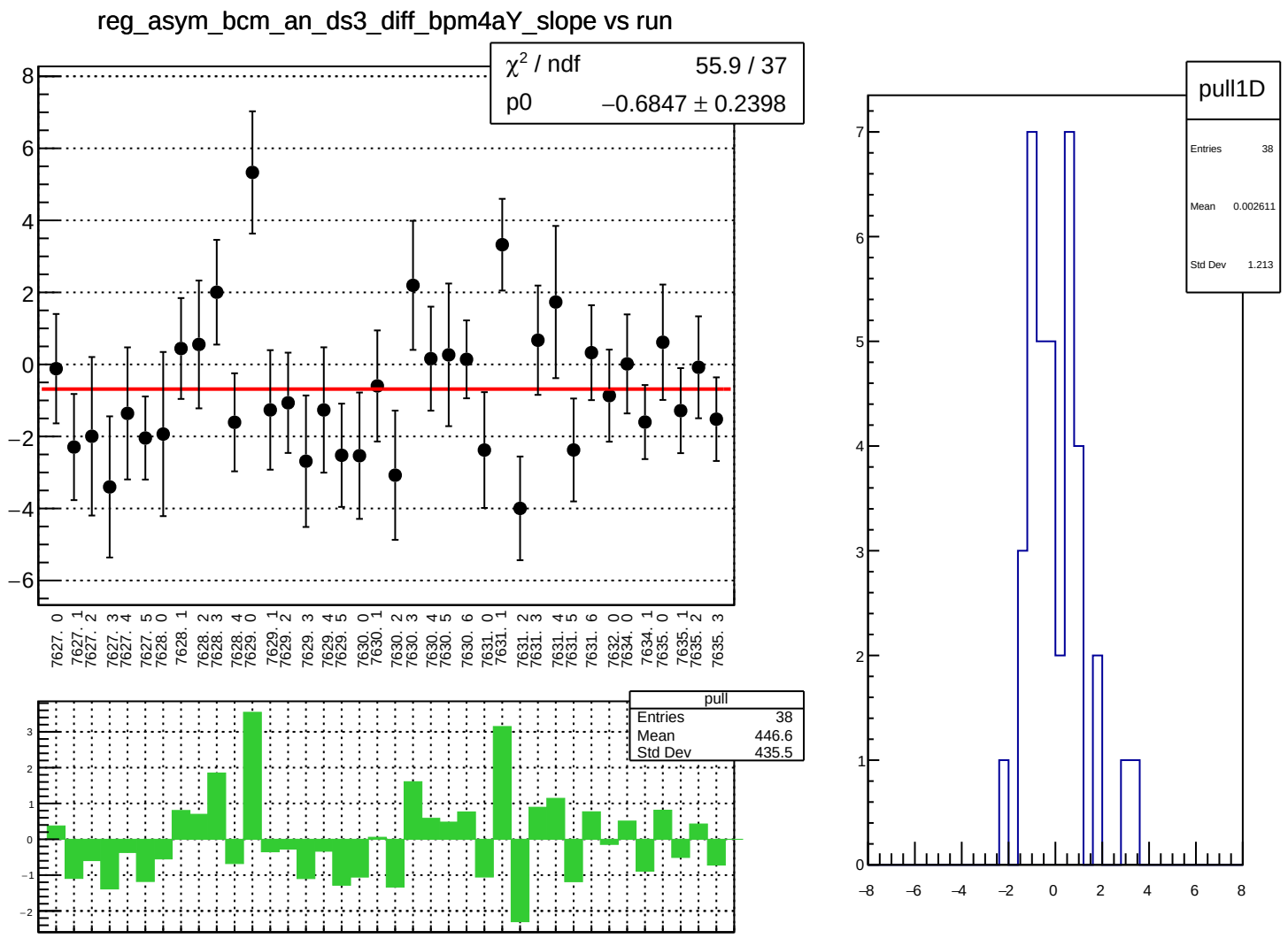

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 17.86 / 37
p0 −2.314 ± 1.554
pull
Entries 38
Mean 1466
Std Dev 1445
pull1D
Entries 38
Mean 0.001564
Std Dev 0.6856

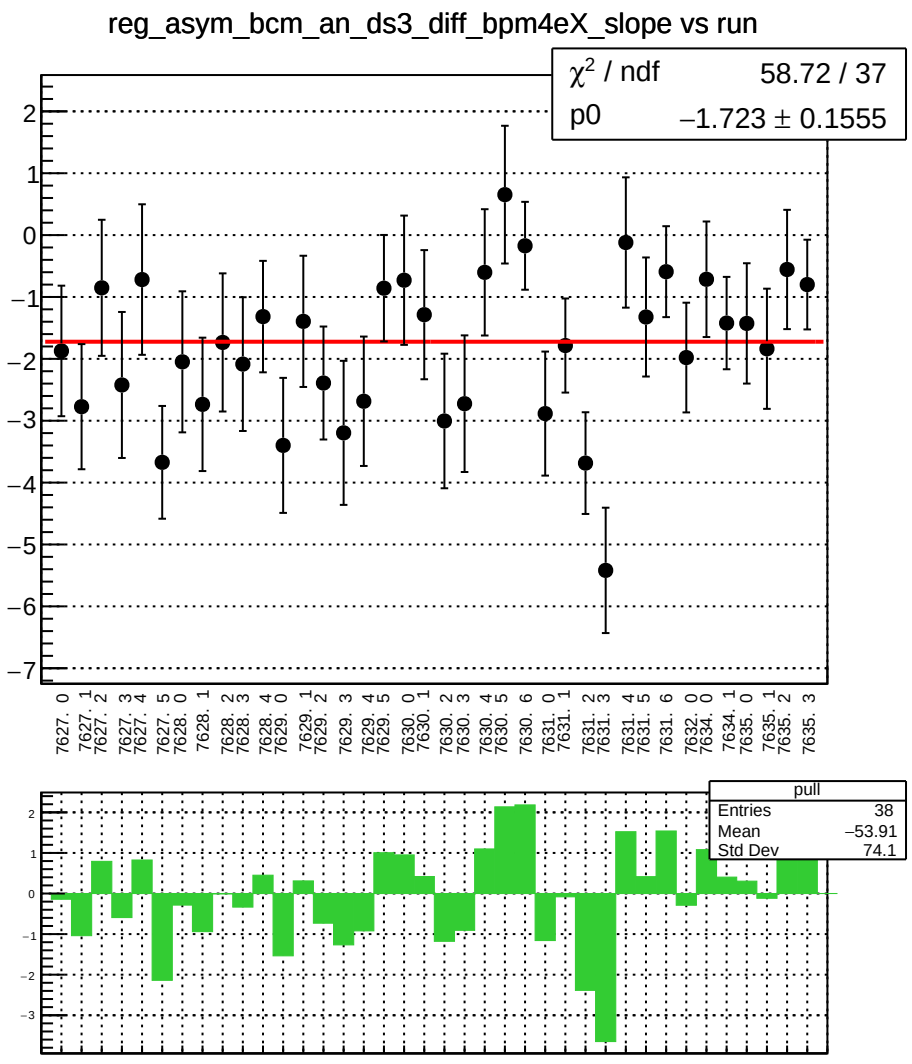

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 32.75 / 37
p0 14.41 ± 0.1117
pull
Entries 38
Mean −81.61
Std Dev 107.8

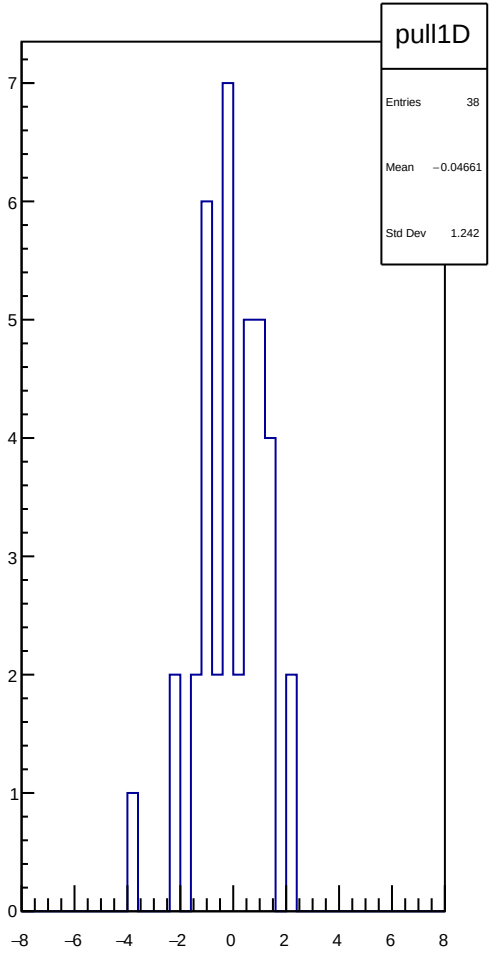

pull1D
Entries 38
Mean −0.01497
Std Dev 0.9282

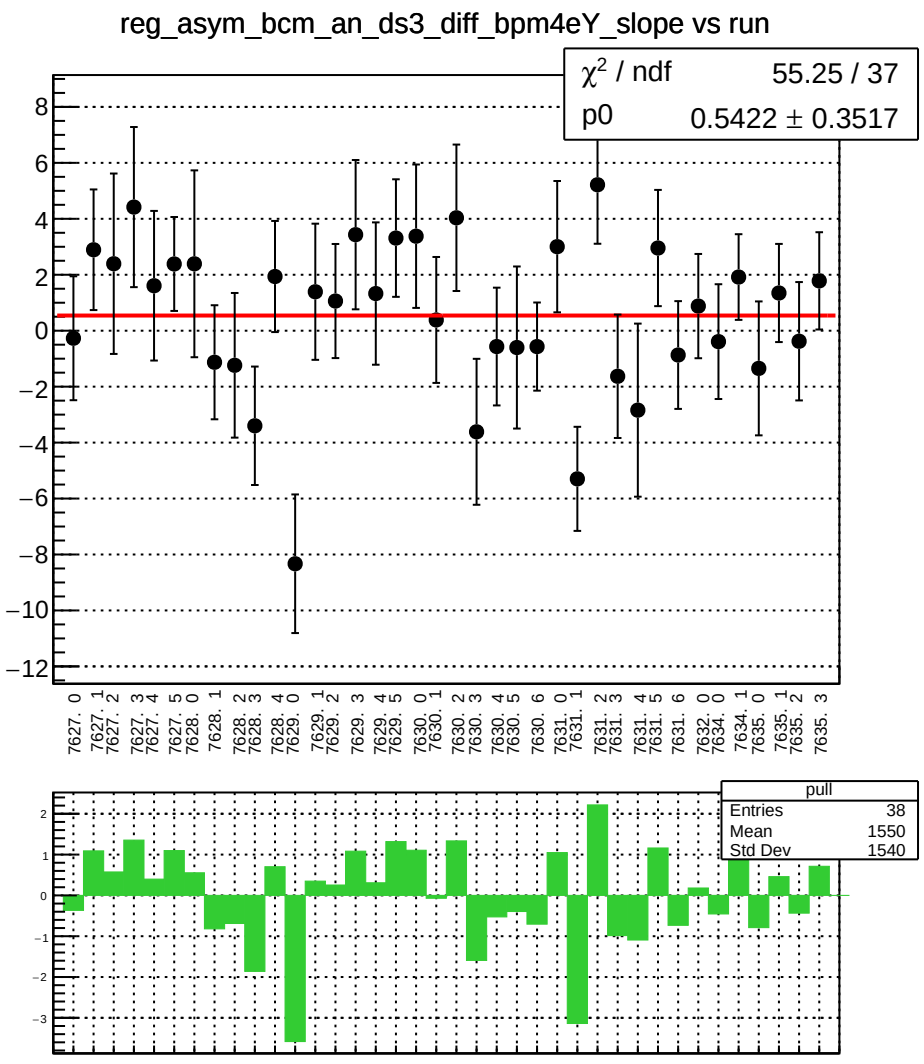

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 59.23 / 37
p0 2.038 ± 0.1944
pull
Entries 38
Mean −70.69
Std Dev 89.63

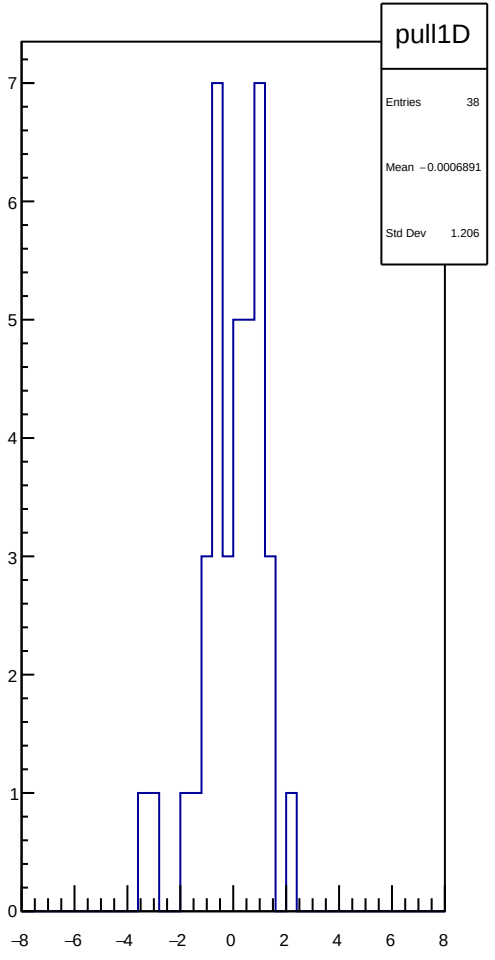

pull1D
Entries 38
Mean 0.04053
Std Dev 1.248

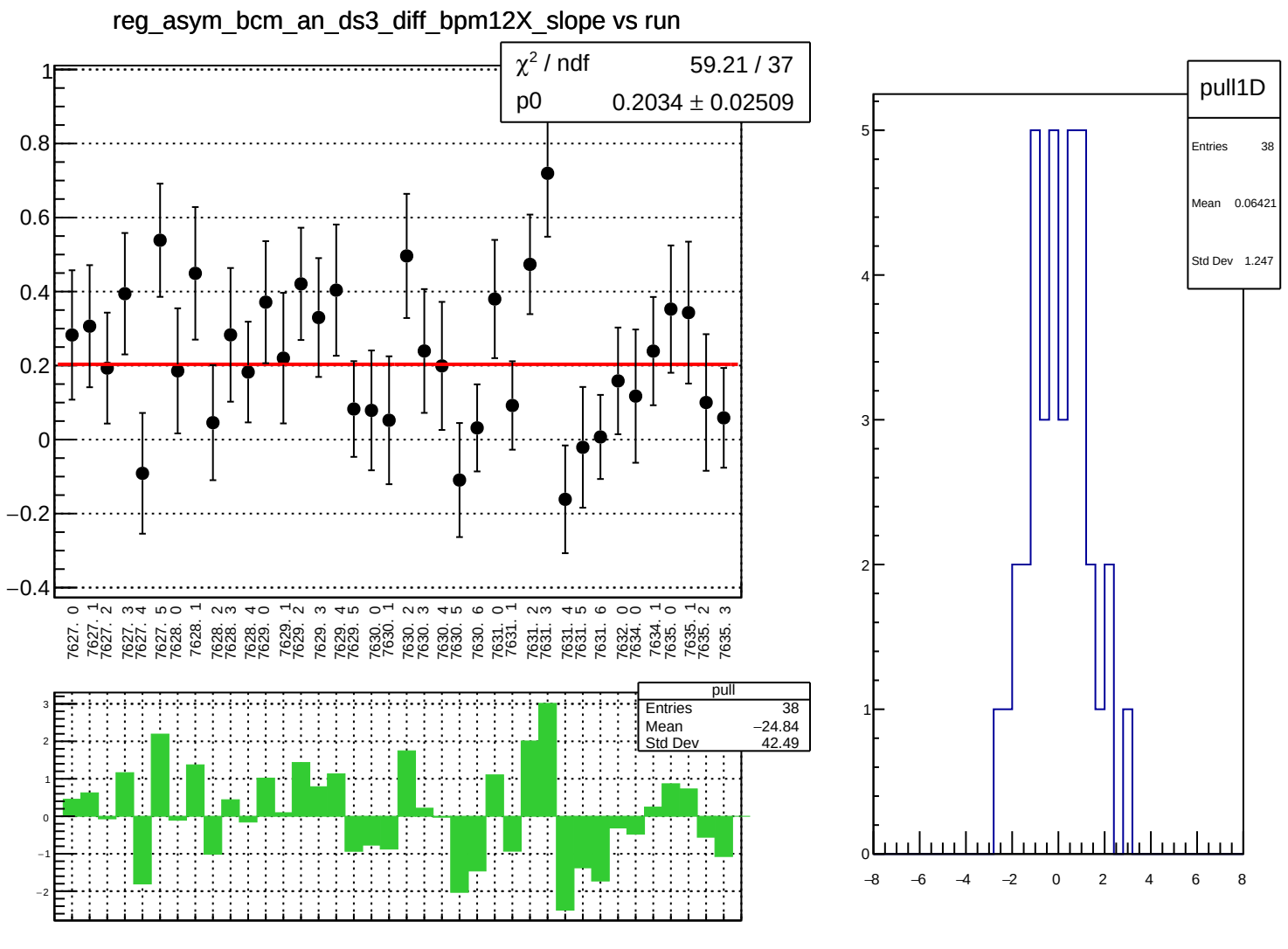

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 55.9 / 37
p0 −0.6847 ± 0.2398
pull
Entries 38
Mean 446.6
Std Dev 435.5
pull1D
Entries 38
Mean 0.002611
Std Dev 1.213

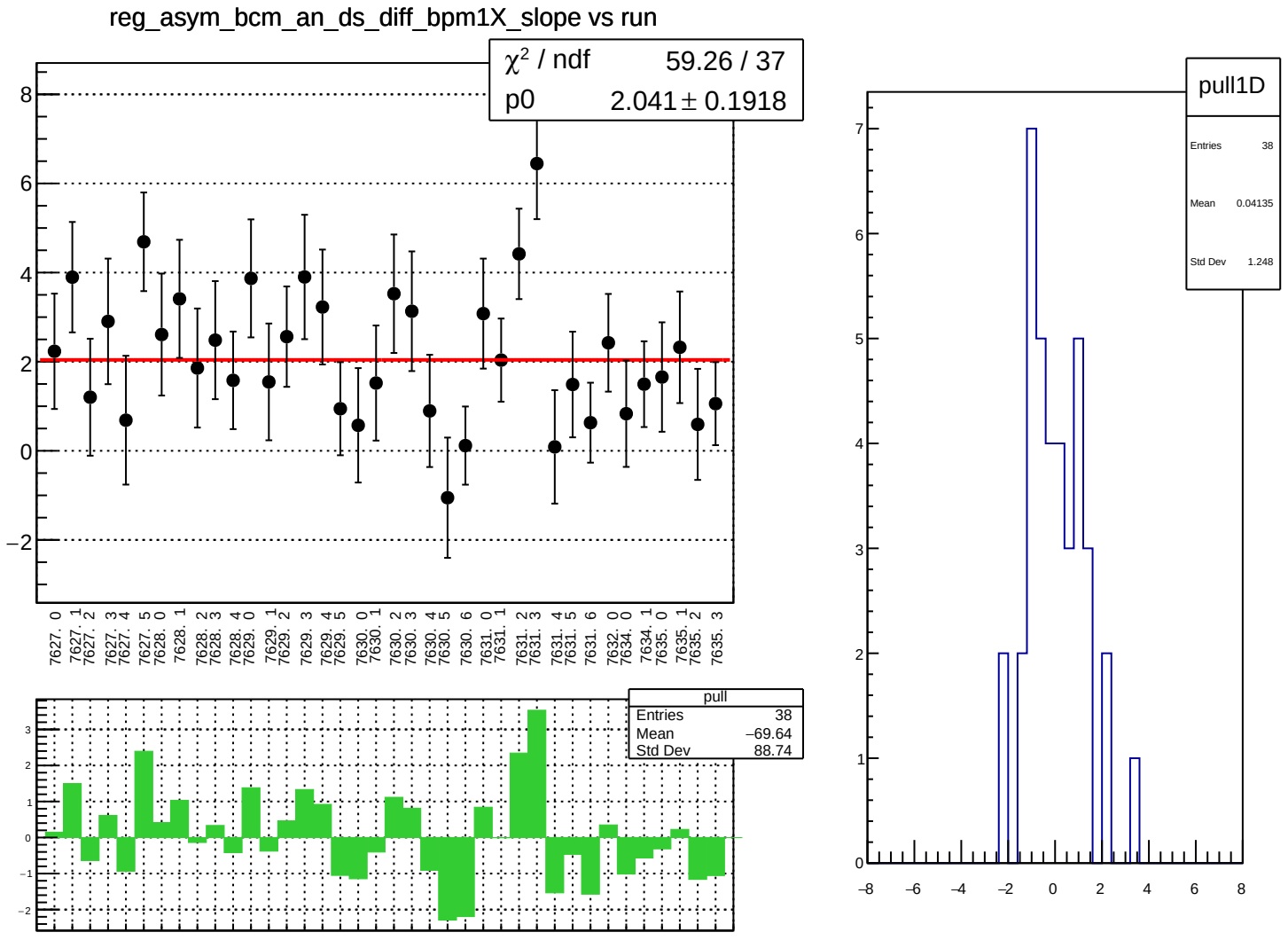

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 58.72 / 37
p0 −1.723 ± 0.1555
pull
Entries 38
Mean −53.91
Std Dev 74.1

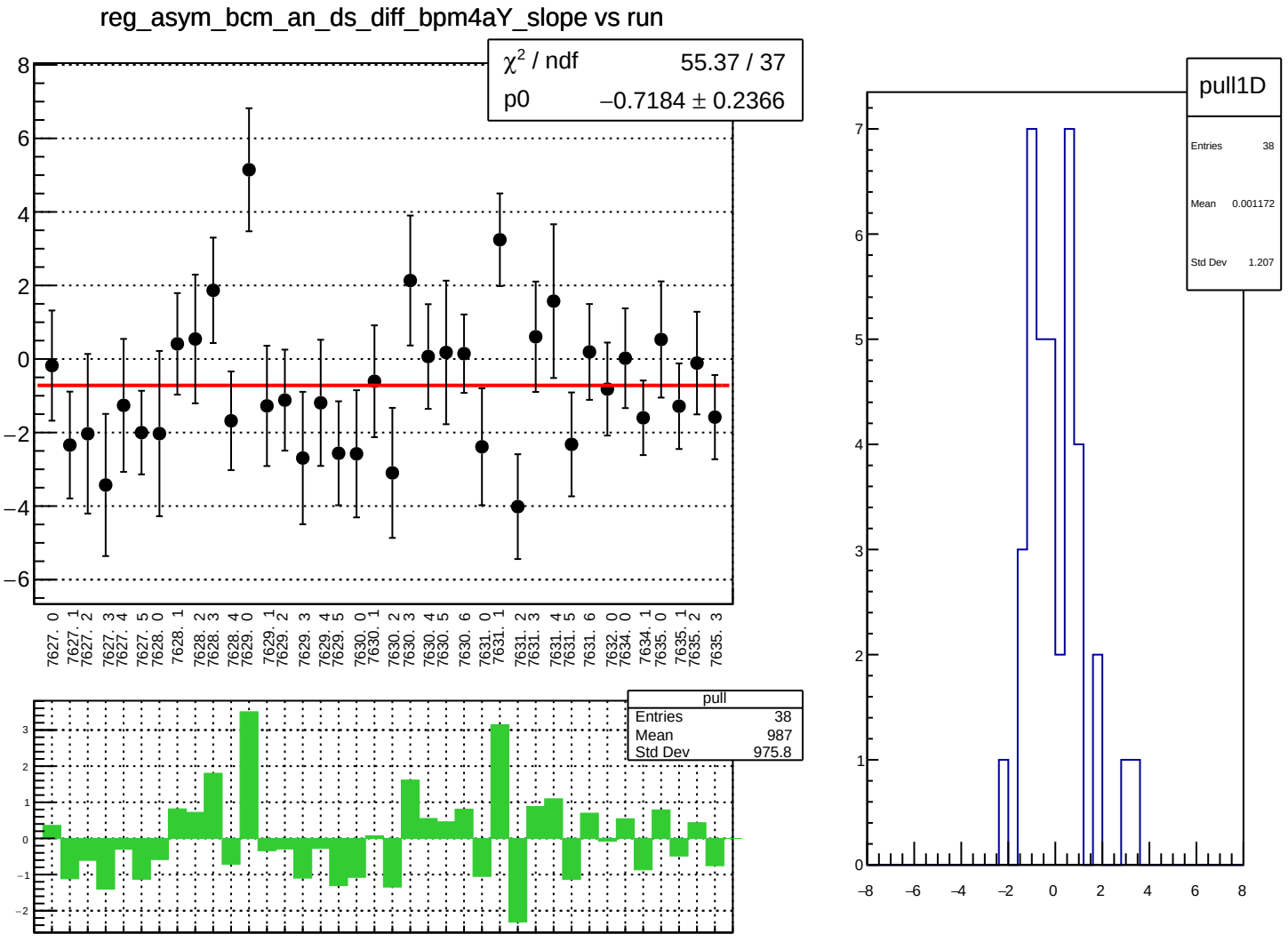

pull1D
Entries 38
Mean −0.04661
Std Dev 1.242

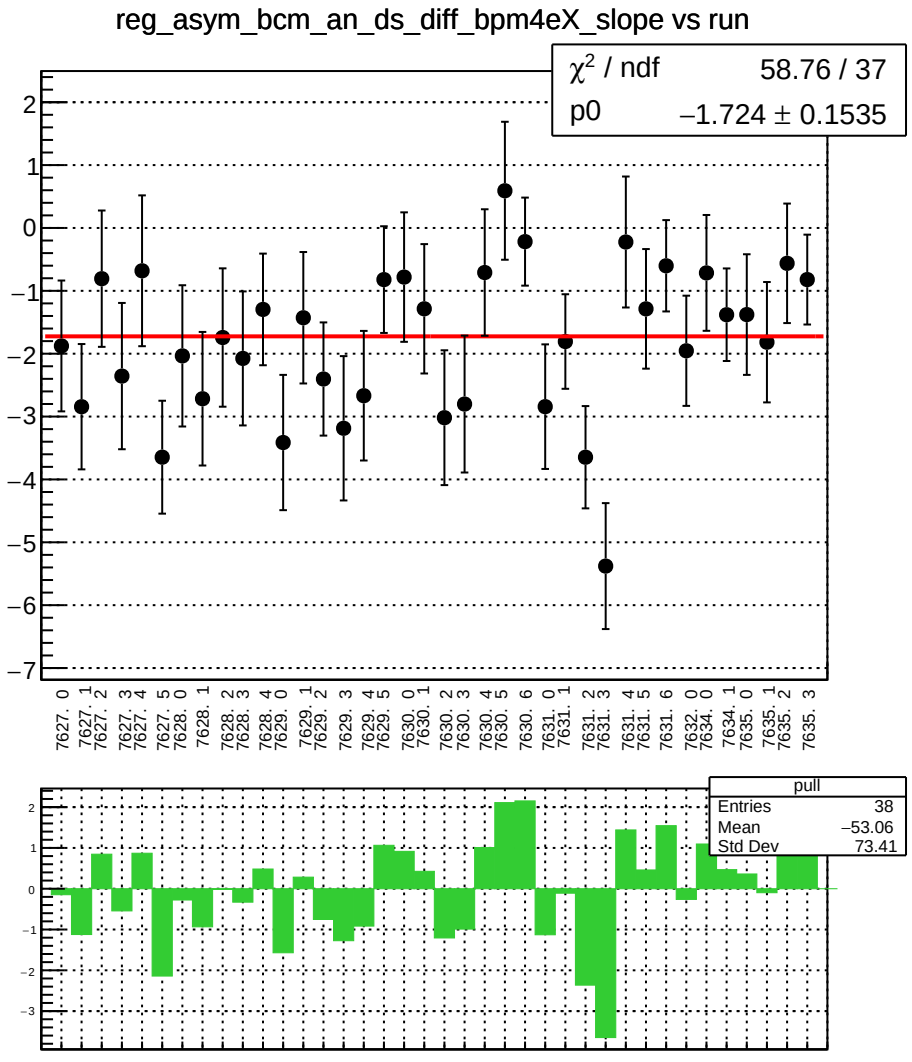

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 55.25 / 37
p0 0.5422 ± 0.3517
pull
Entries 38
Mean 1550
Std Dev 1540

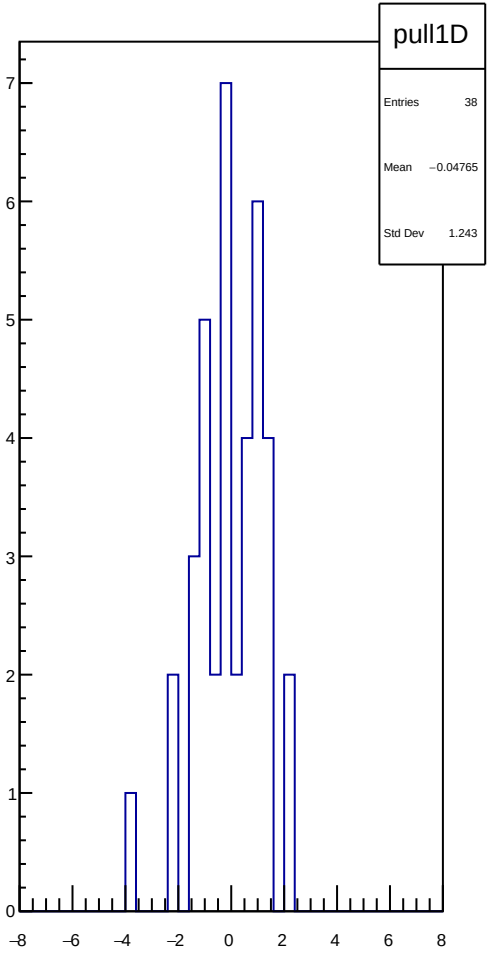

pull1D
Entries 38
Mean −0.0006891
Std Dev 1.206

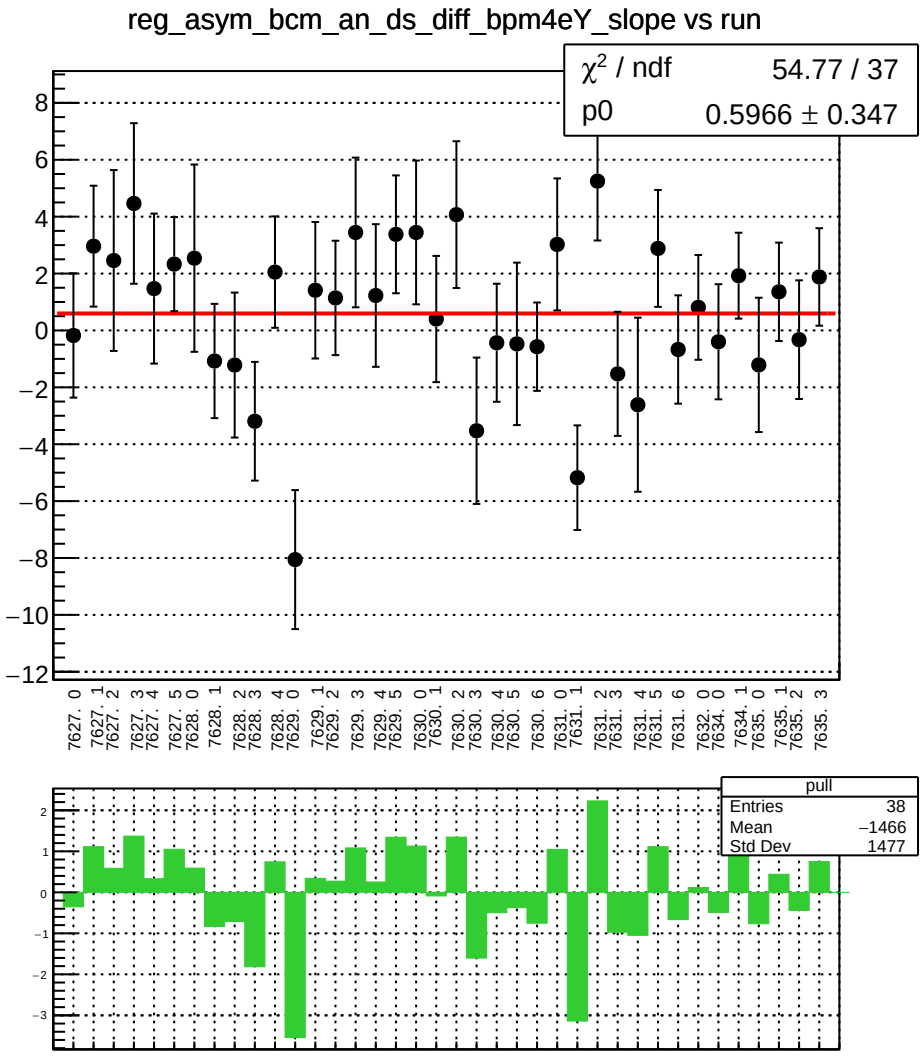

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 59.21 / 37
p0 0.2034 ± 0.02509
pull
Entries 38
Mean −24.84
Std Dev 42.49
pull1D
Entries 38
Mean 0.06421
Std Dev 1.247

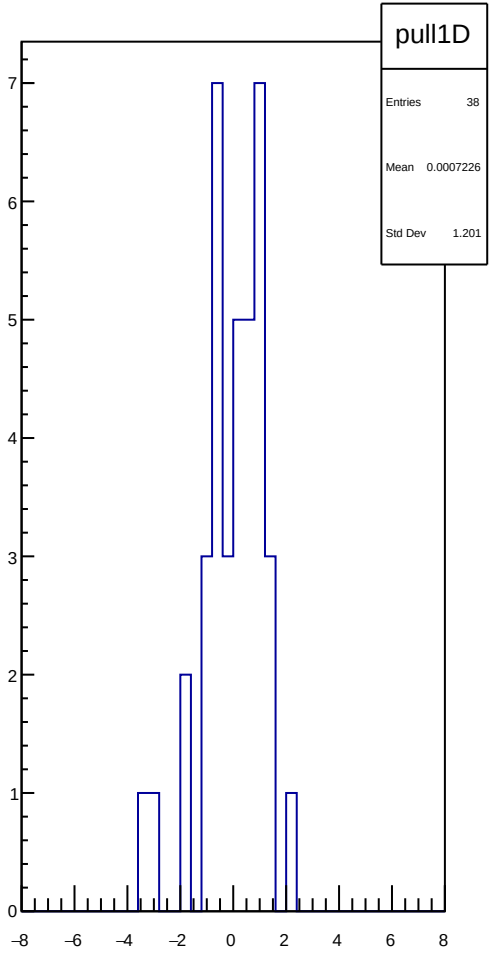

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 59.26 / 37
p0 2.041 ± 0.1918
pull
Entries 38
Mean −69.64
Std Dev 88.74
pull1D
Entries 38
Mean 0.04135
Std Dev 1.248

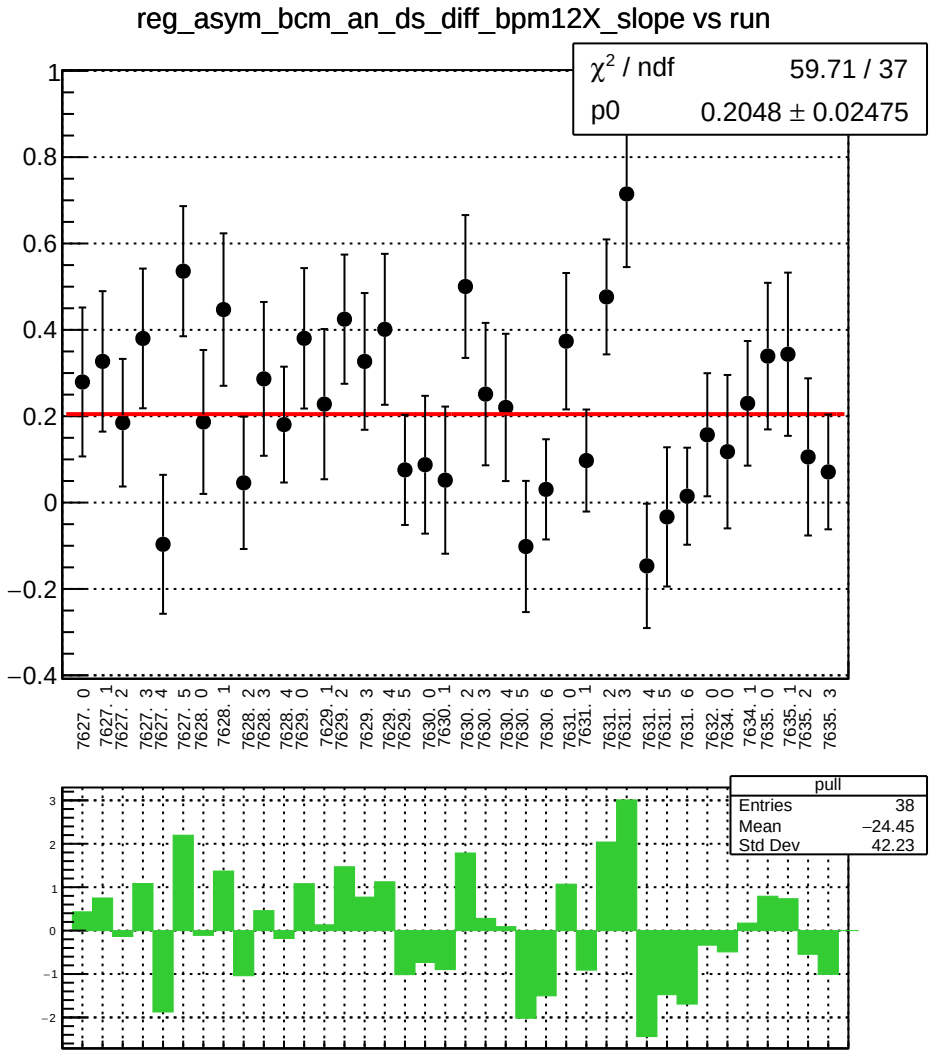

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 55.37 / 37
p0 −0.7184 ± 0.2366
pull
Entries 38
Mean 987
Std Dev 975.8
pull1D
Entries 38
Mean 0.001172
Std Dev 1.207

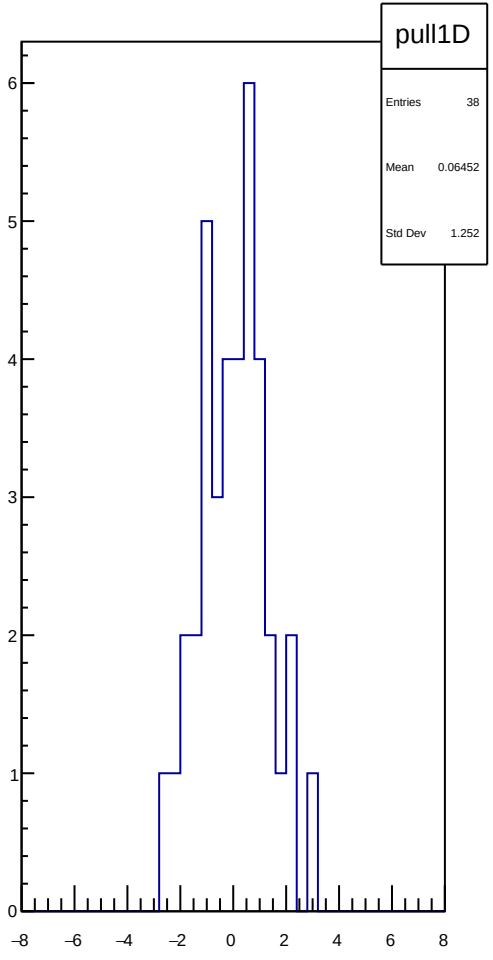

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 58.76 / 37
p0 −1.724 ± 0.1535
pull
Entries 38
Mean −53.06
Std Dev 73.41

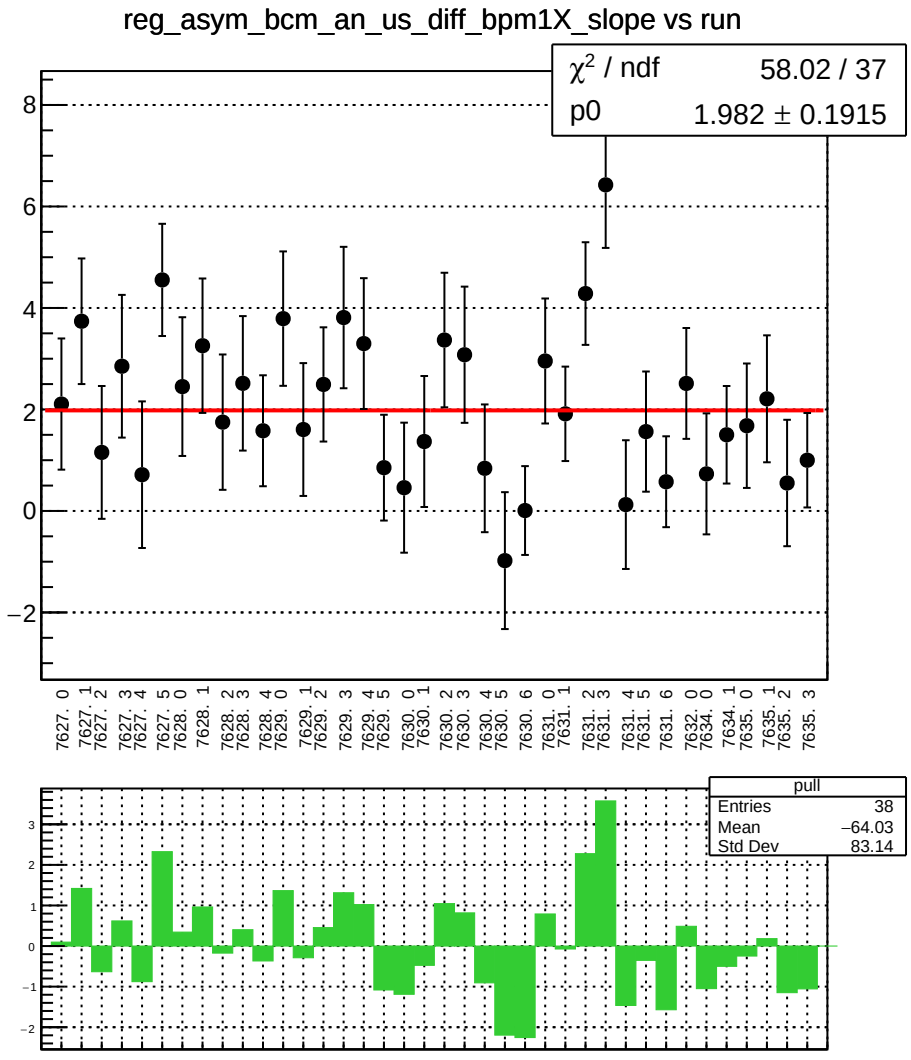

pull1D
Entries 38
Mean −0.04765
Std Dev 1.243

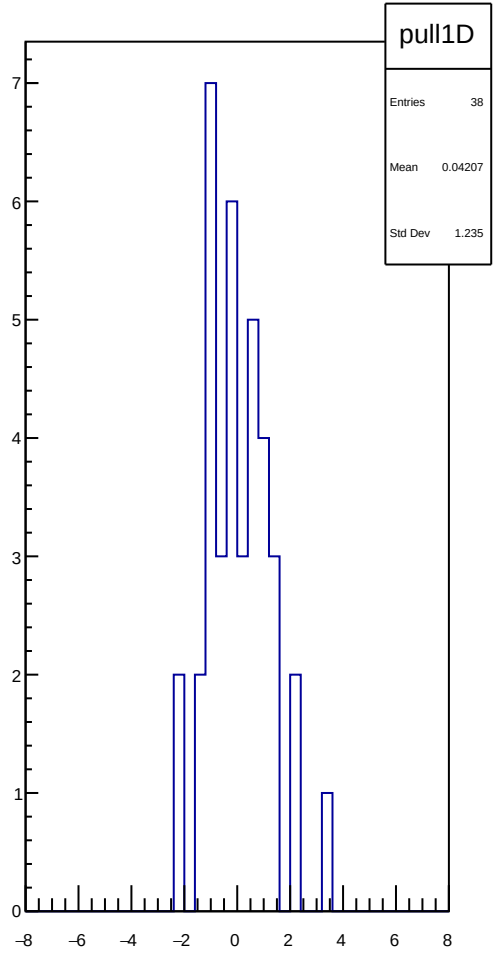

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 54.77 / 37
p0 0.5966 ± 0.347
pull
Entries 38
Mean −1466
Std Dev 1477

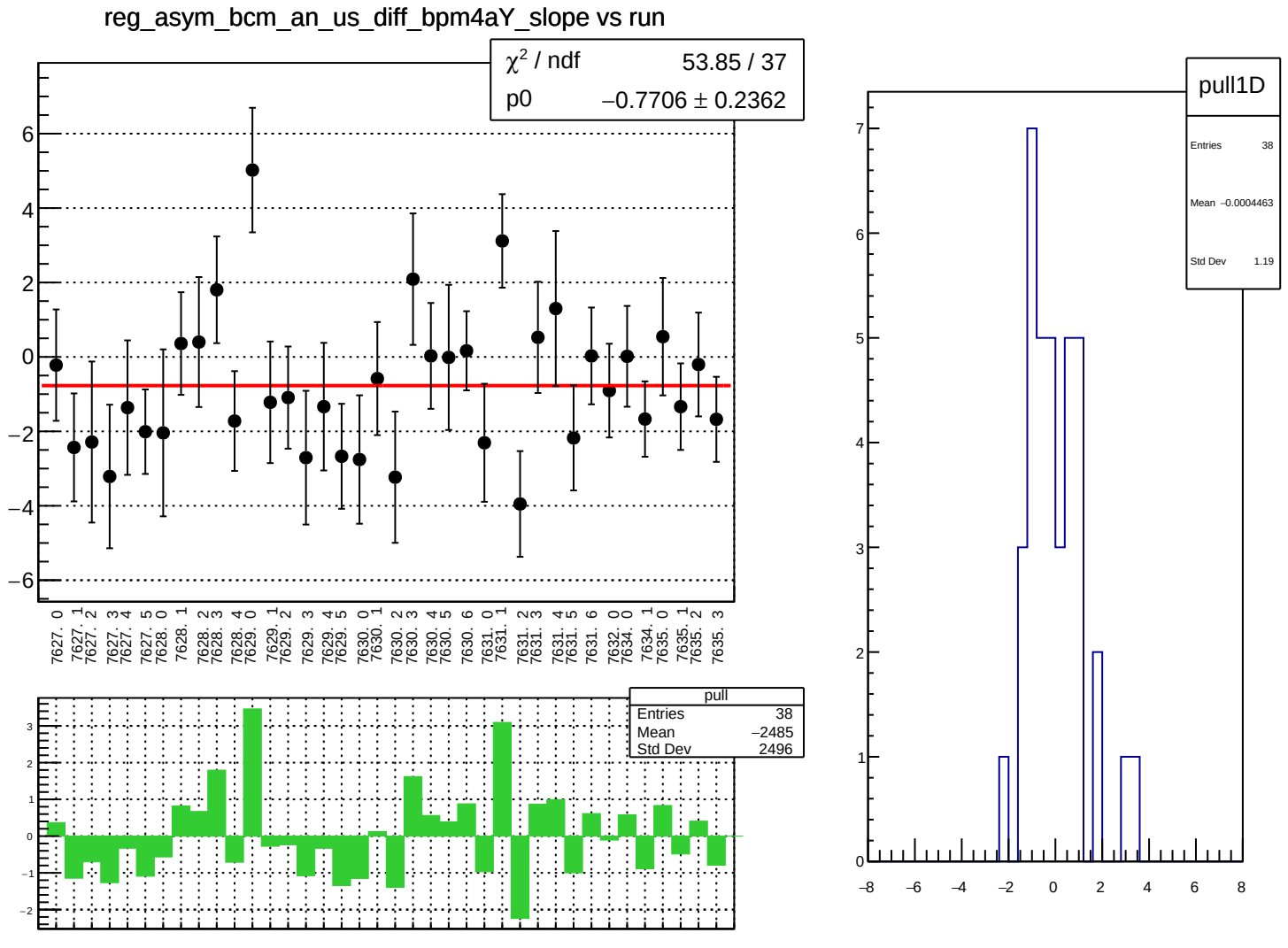

pull1D
Entries 38
Mean 0.0007226
Std Dev 1.201

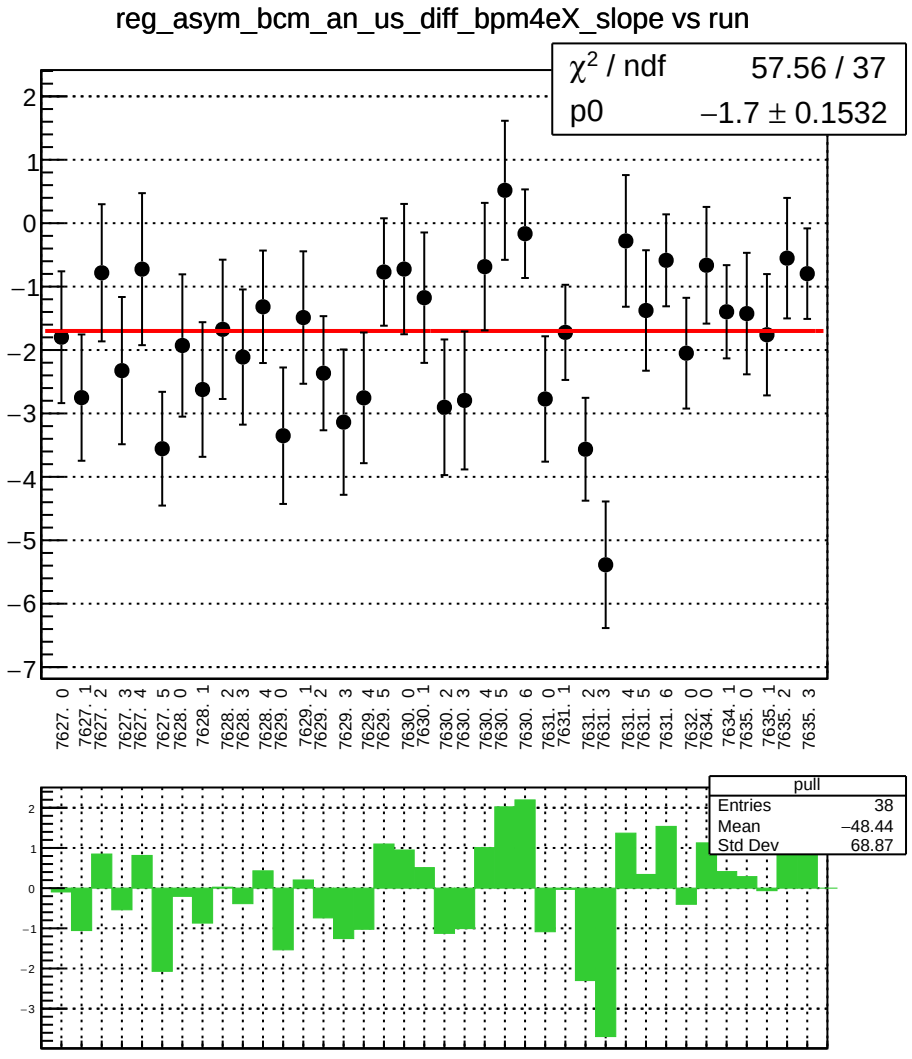

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 59.71 / 37
p0 0.2048 ± 0.02475
pull
Entries 38
Mean −24.45
Std Dev 42.23

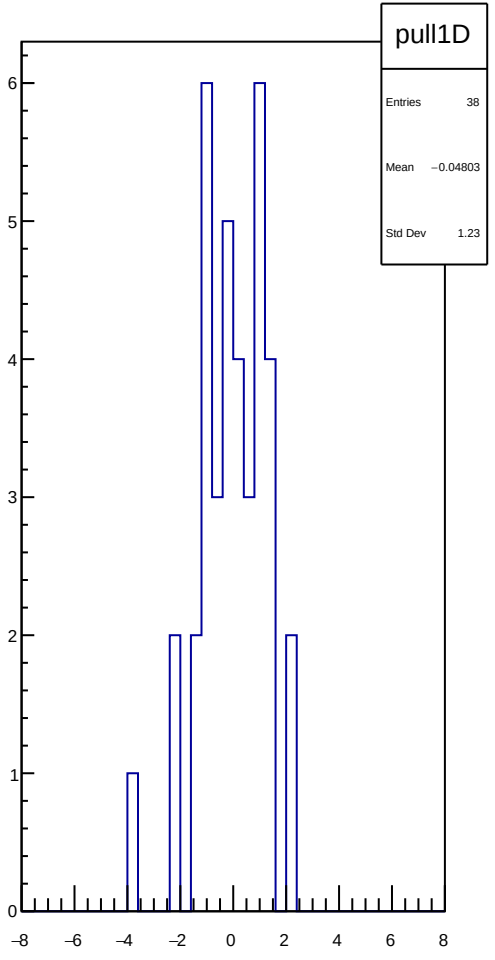

pull1D
Entries 38
Mean 0.06452
Std Dev 1.252

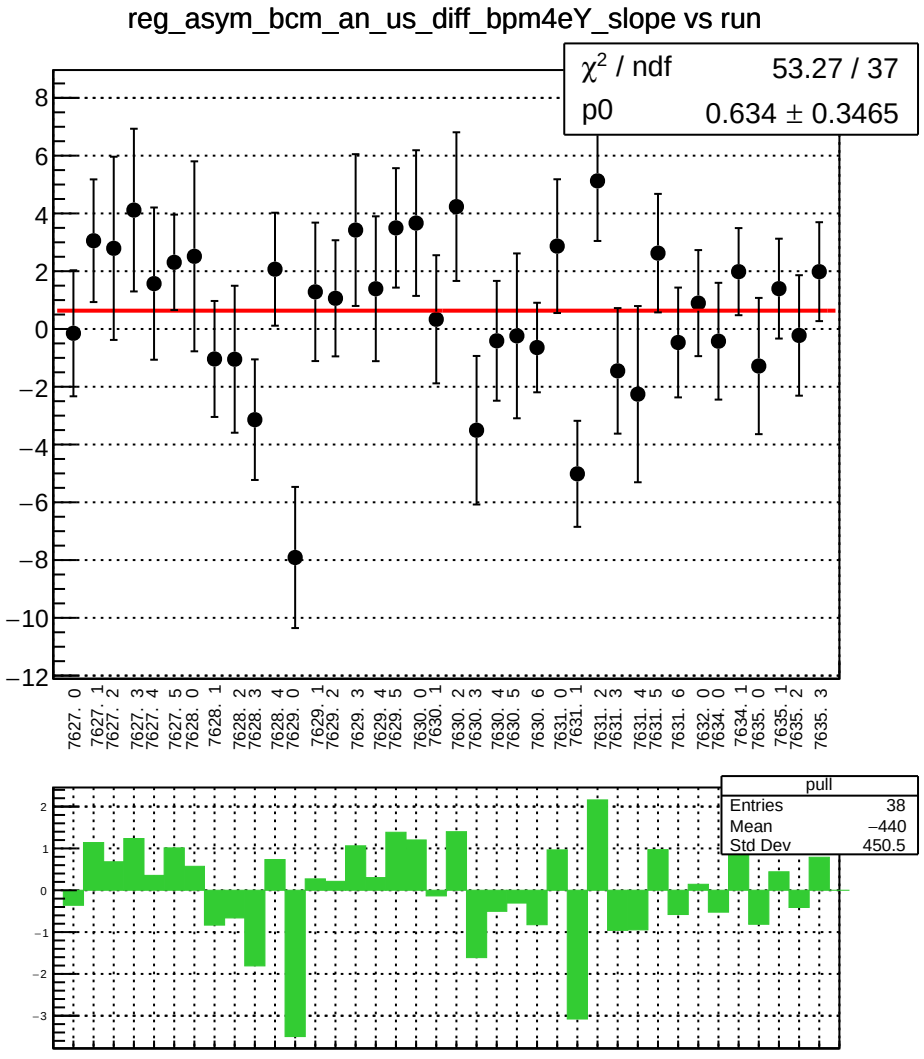

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 58.02 / 37
p0 1.982 ± 0.1915
pull
Entries 38
Mean −64.03
Std Dev 83.14

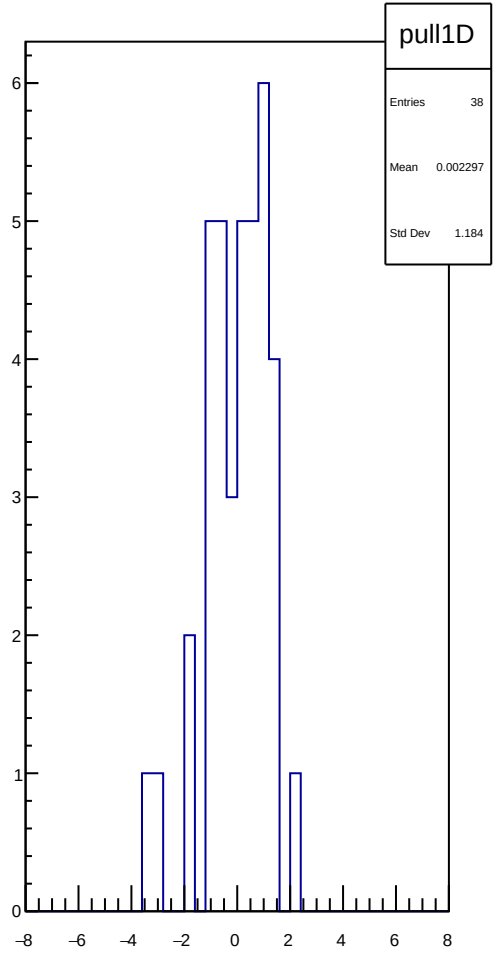

pull1D
Entries 38
Mean 0.04207
Std Dev 1.235

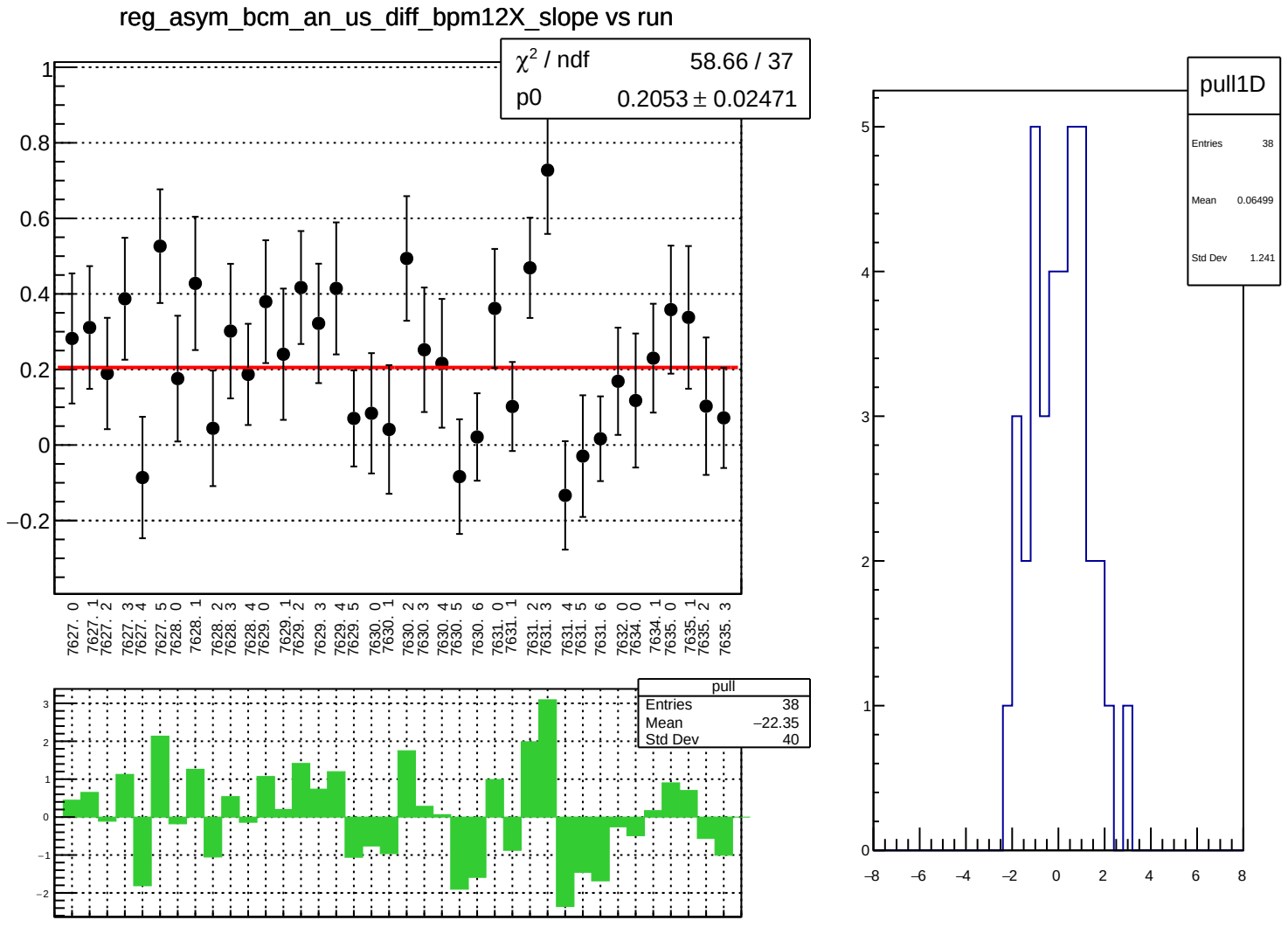

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 53.85 / 37
p0 −0.7706 ± 0.2362
pull
Entries 38
Mean −2485
Std Dev 2496
pull1D
Entries 38
Mean −0.0004463
Std Dev 1.19

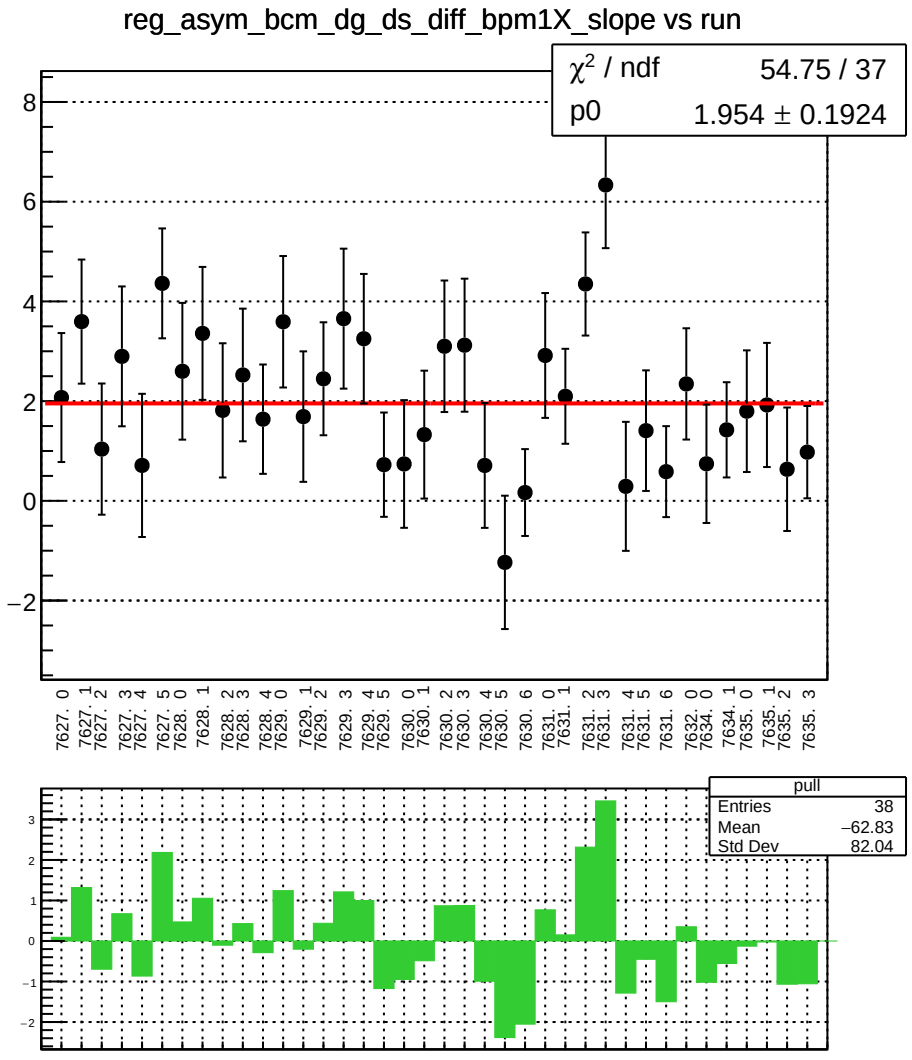

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 57.56 / 37
p0 −1.7 ± 0.1532
pull
Entries 38
Mean −48.44
Std Dev 68.87

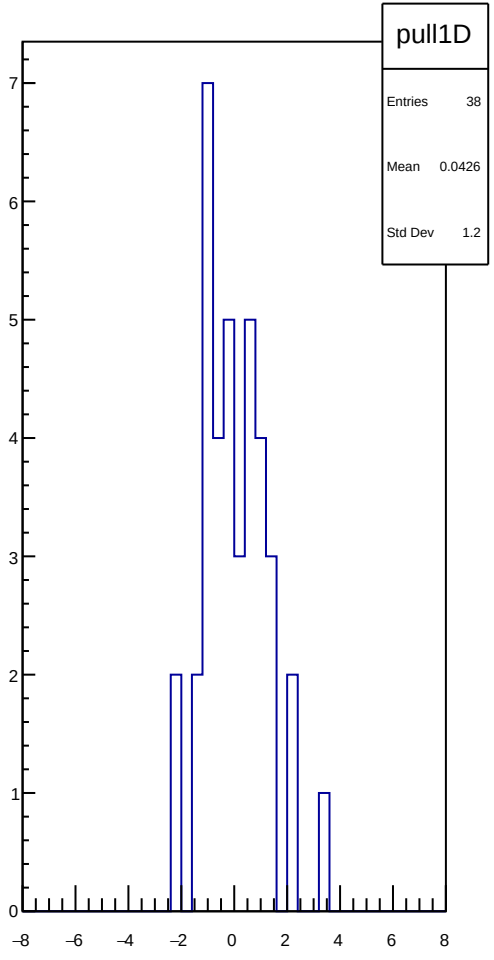

pull1D
Entries 38
Mean −0.04803
Std Dev 1.23

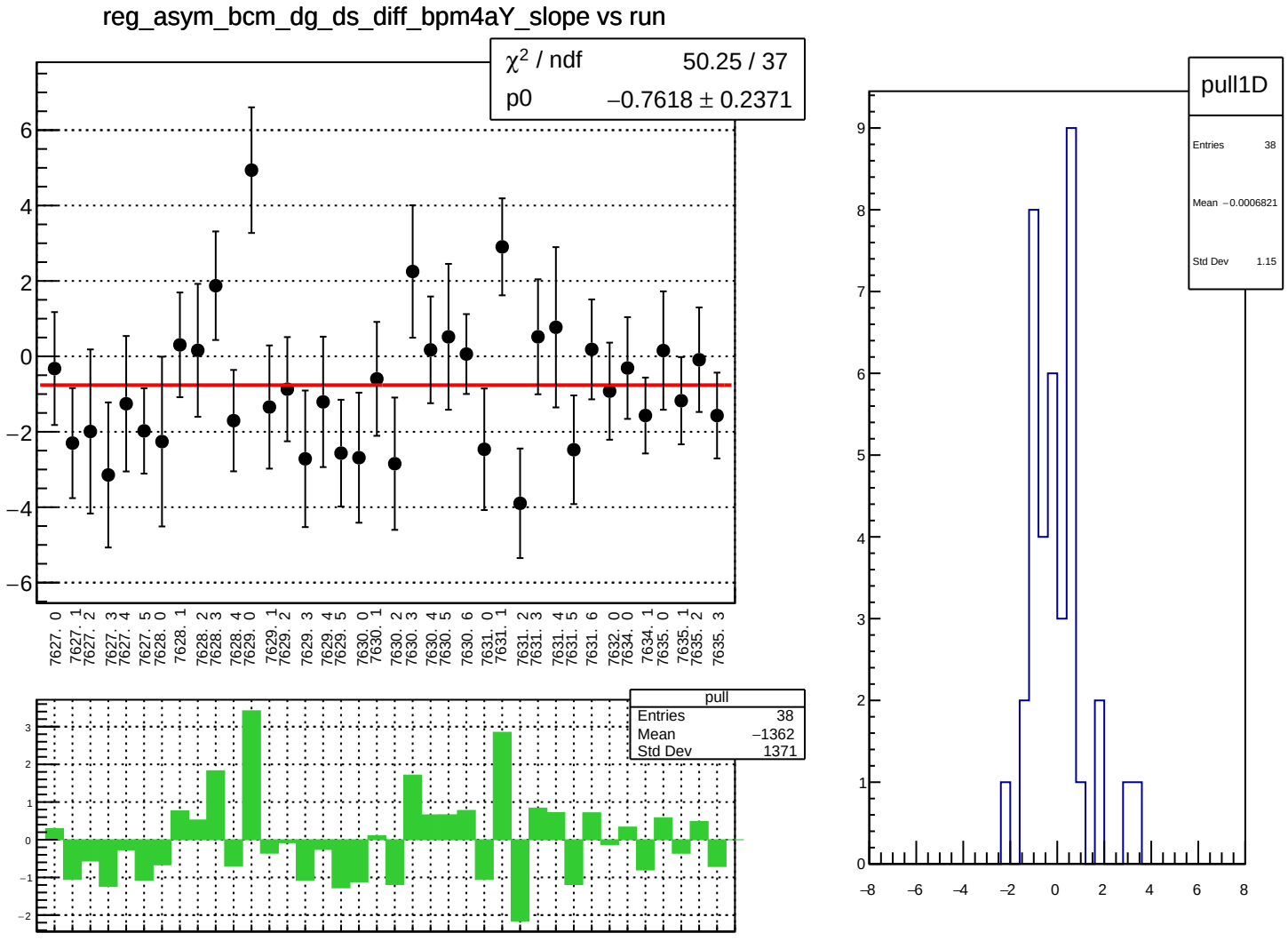

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 53.27 / 37
p0 0.634 ± 0.3465
pull
Entries 38
Mean −440
Std Dev 450.5

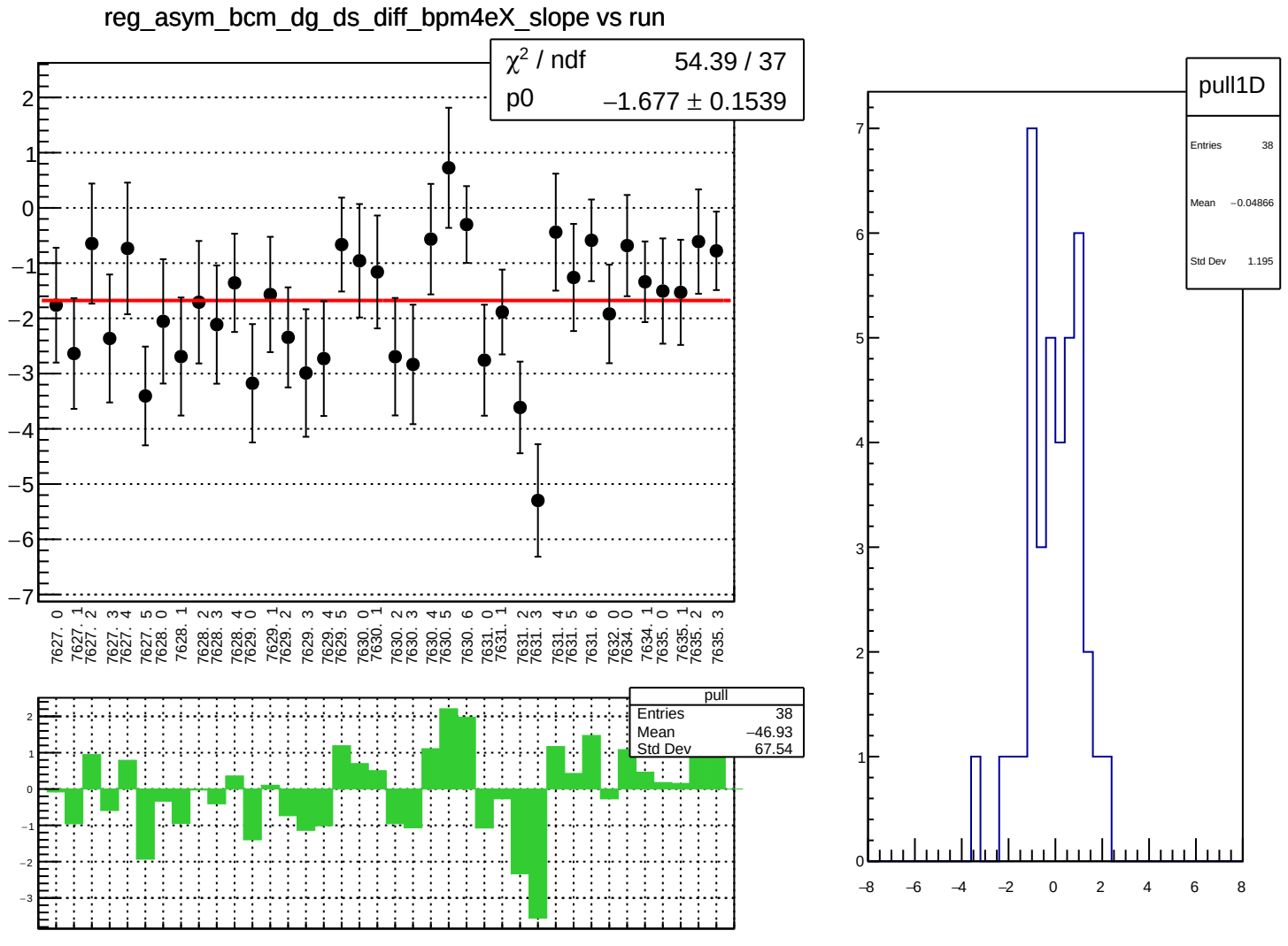

pull1D
Entries 38
Mean 0.002297
Std Dev 1.184

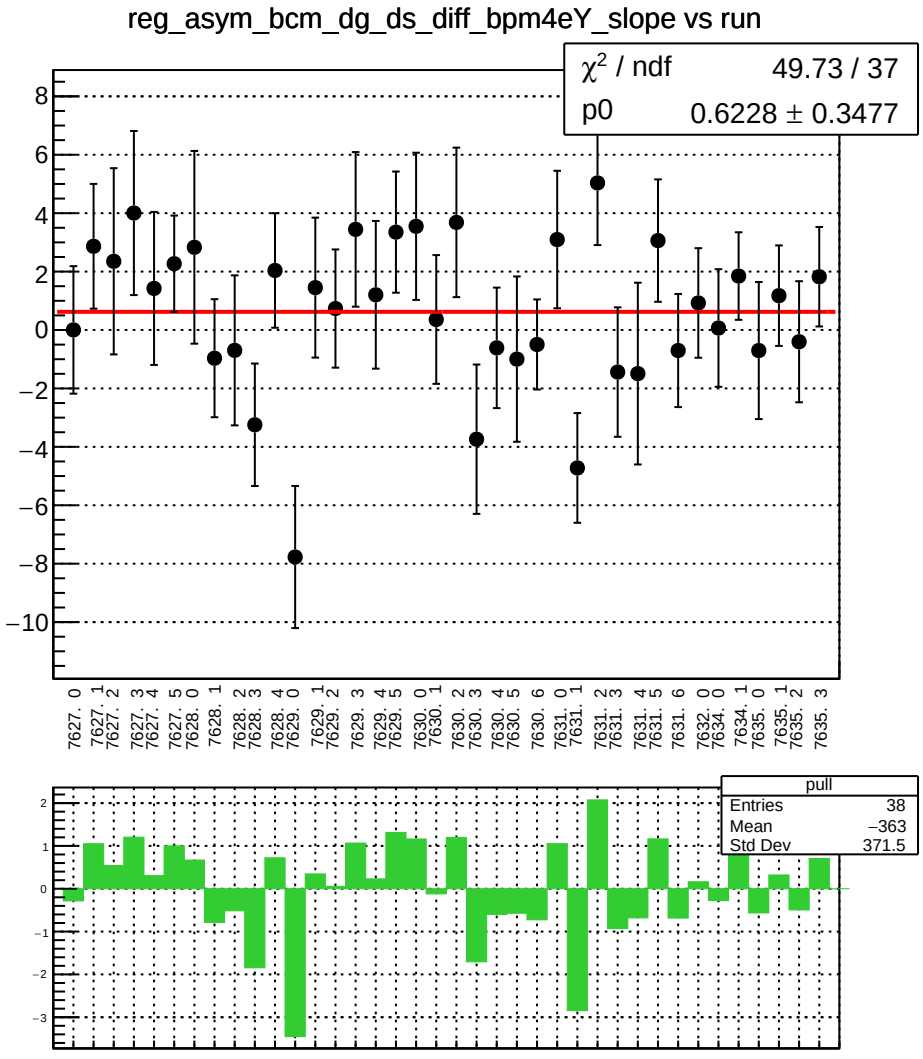

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 58.66 / 37
p0 0.2053 ± 0.02471
pull
Entries 38
Mean −22.35
Std Dev 40
pull1D
Entries 38
Mean 0.06499
Std Dev 1.241

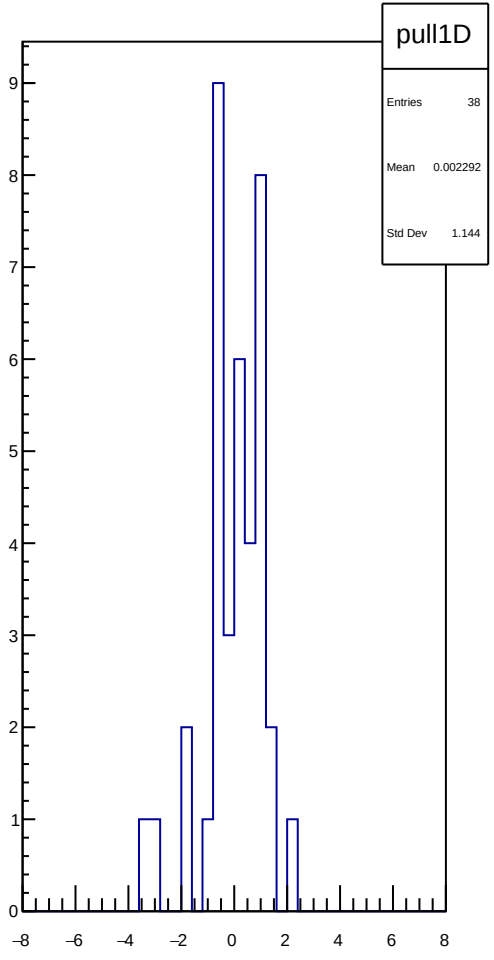

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 54.75 / 37
p0 1.954 ± 0.1924
pull
Entries 38
Mean −62.83
Std Dev 82.04

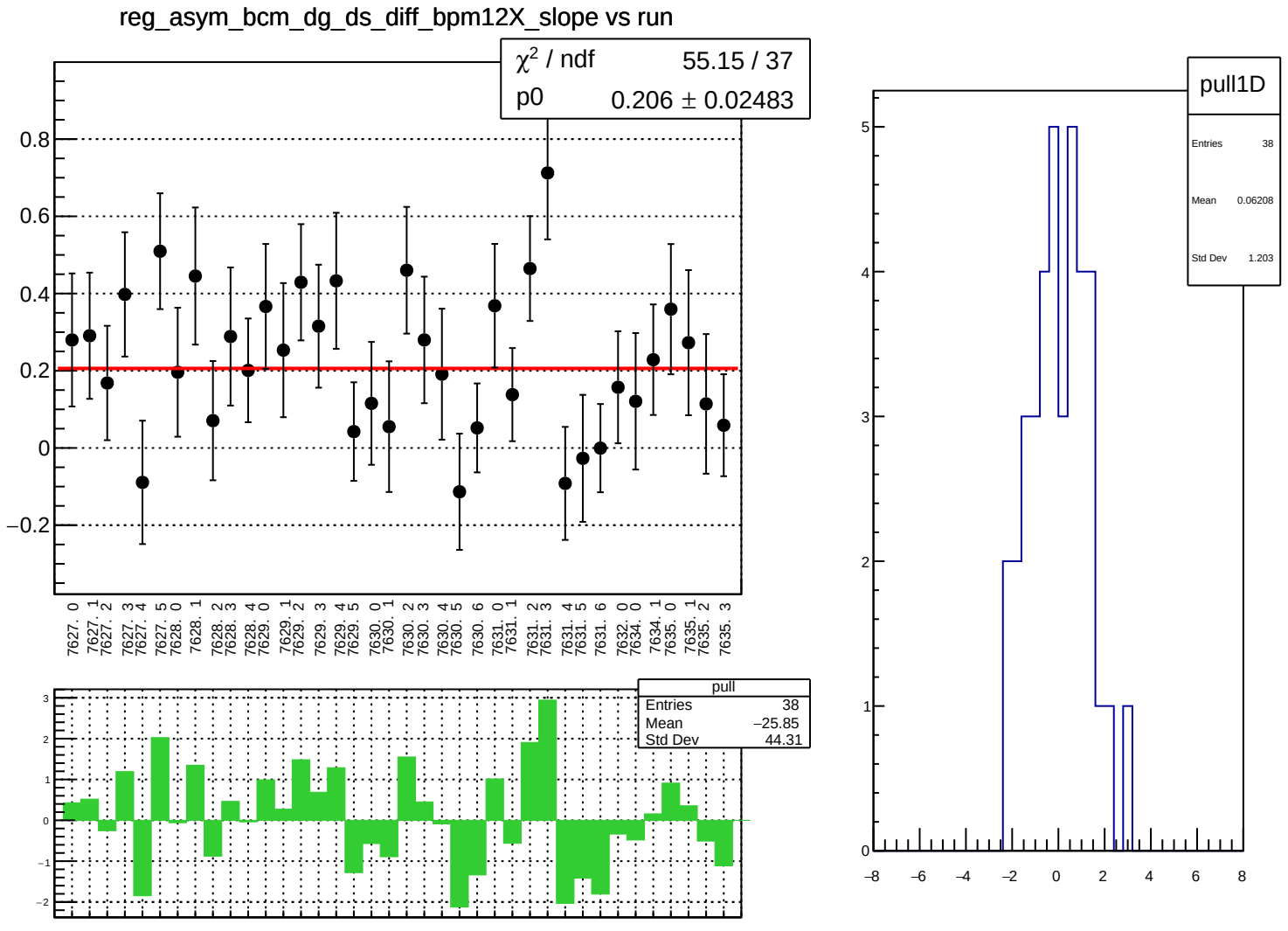

pull1D
Entries 38
Mean 0.0426
Std Dev 1.2

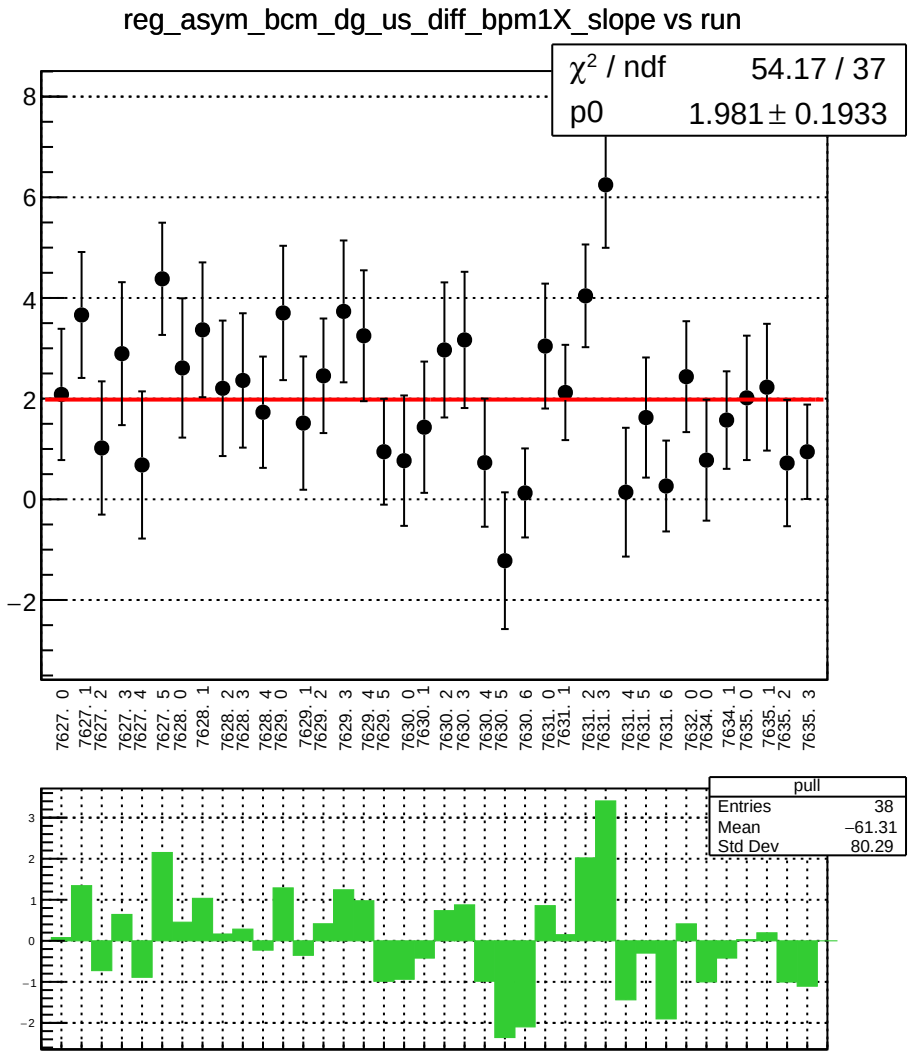

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 50.25 / 37
p0 −0.7618 ± 0.2371
pull
Entries 38
Mean −1362
Std Dev 1371
pull1D
Entries 38
Mean −0.0006821
Std Dev 1.15

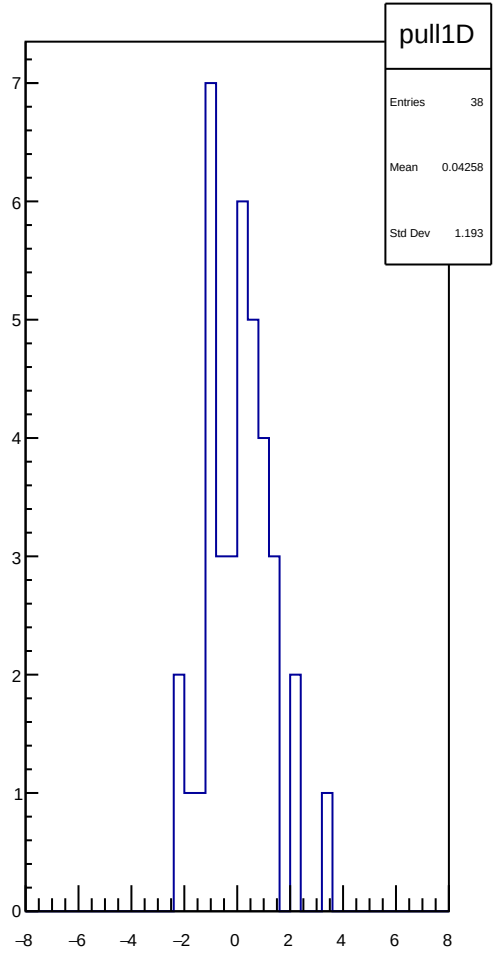

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 54.39 / 37
p0 −1.677 ± 0.1539
pull
Entries 38
Mean −46.93
Std Dev 67.54
pull1D
Entries 38
Mean −0.04866
Std Dev 1.195

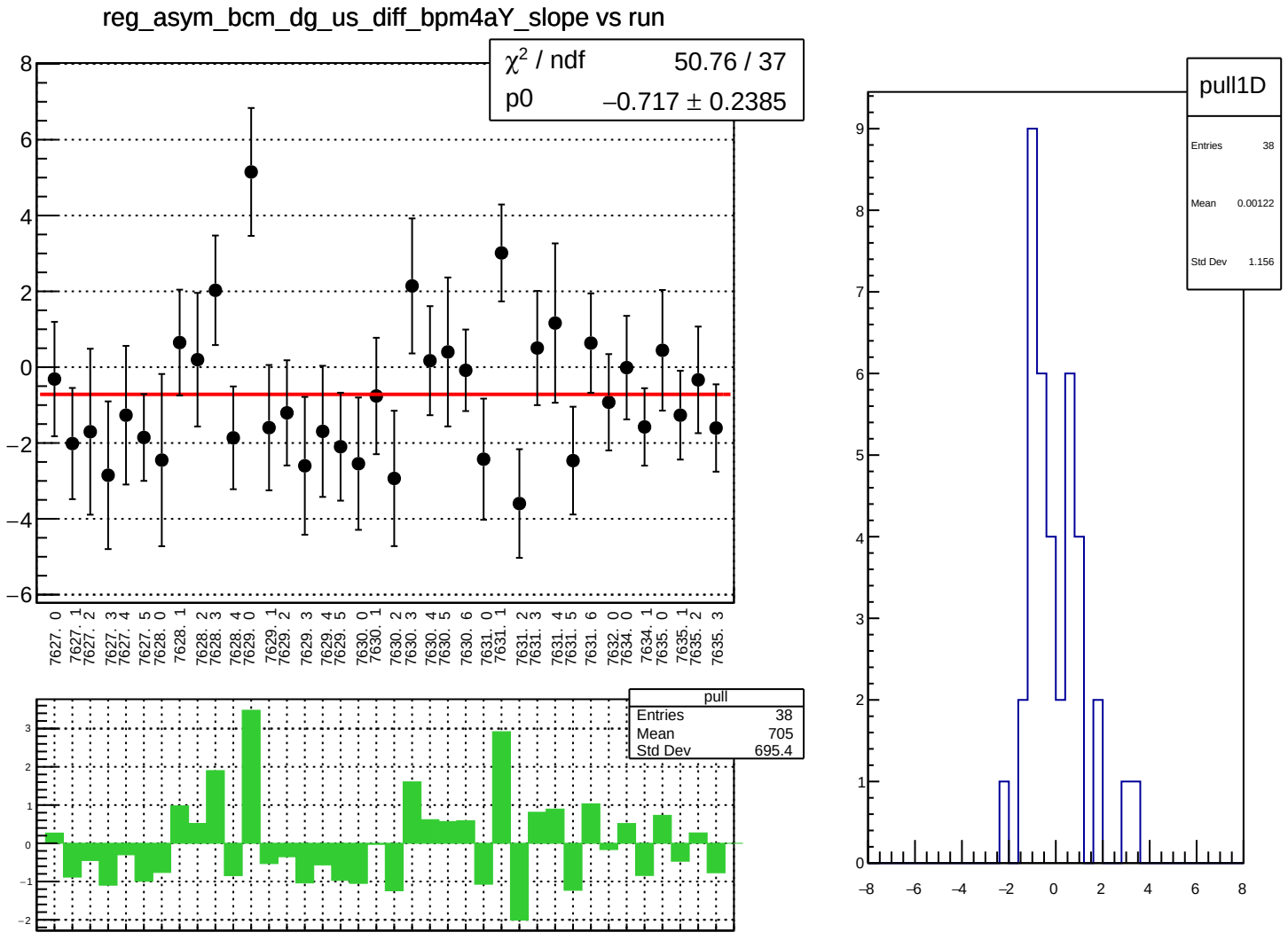

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 49.73 / 37
p0 0.6228 ± 0.3477
pull
Entries 38
Mean −363
Std Dev 371.5

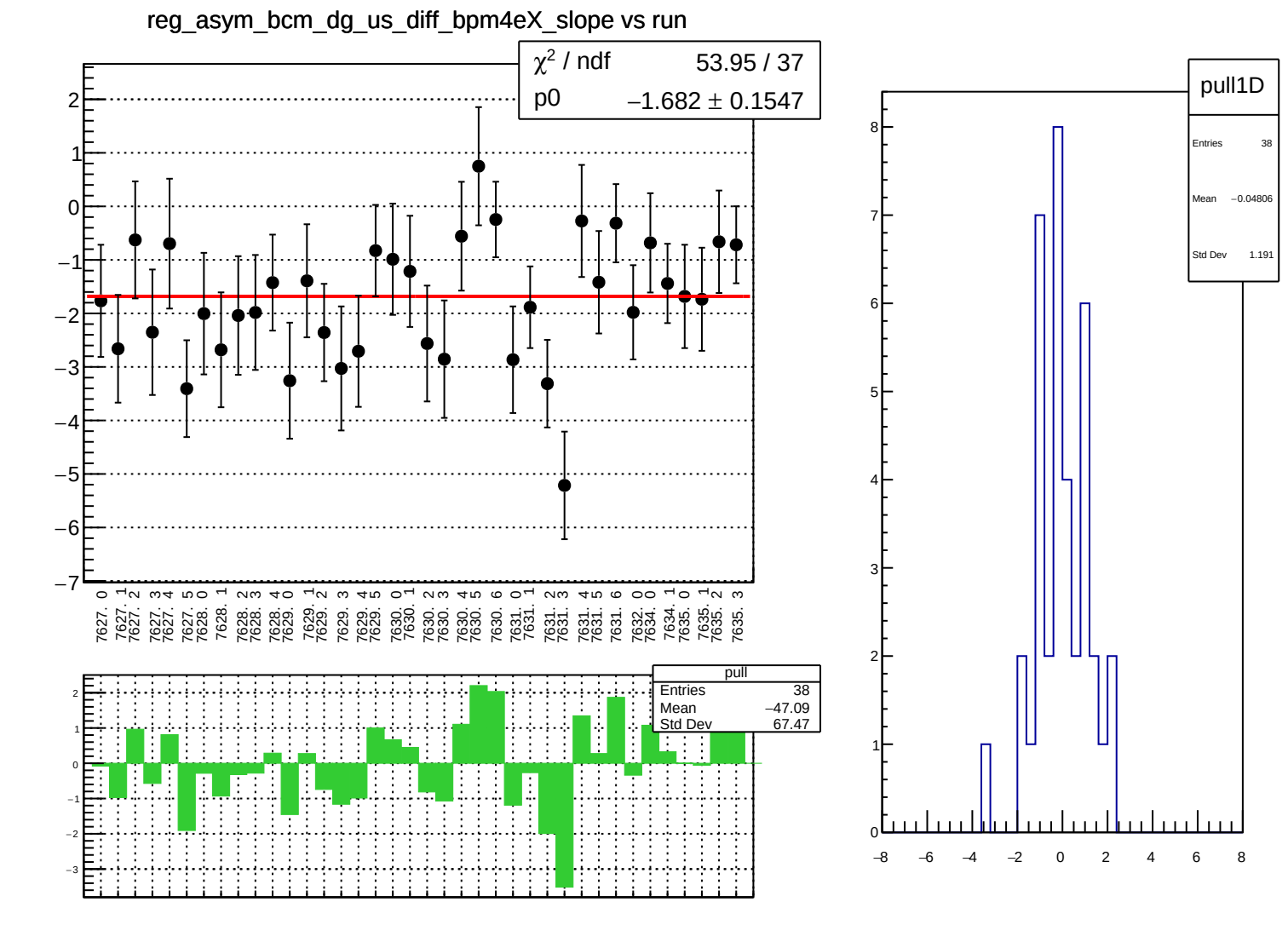

pull1D
Entries 38
Mean 0.002292
Std Dev 1.144

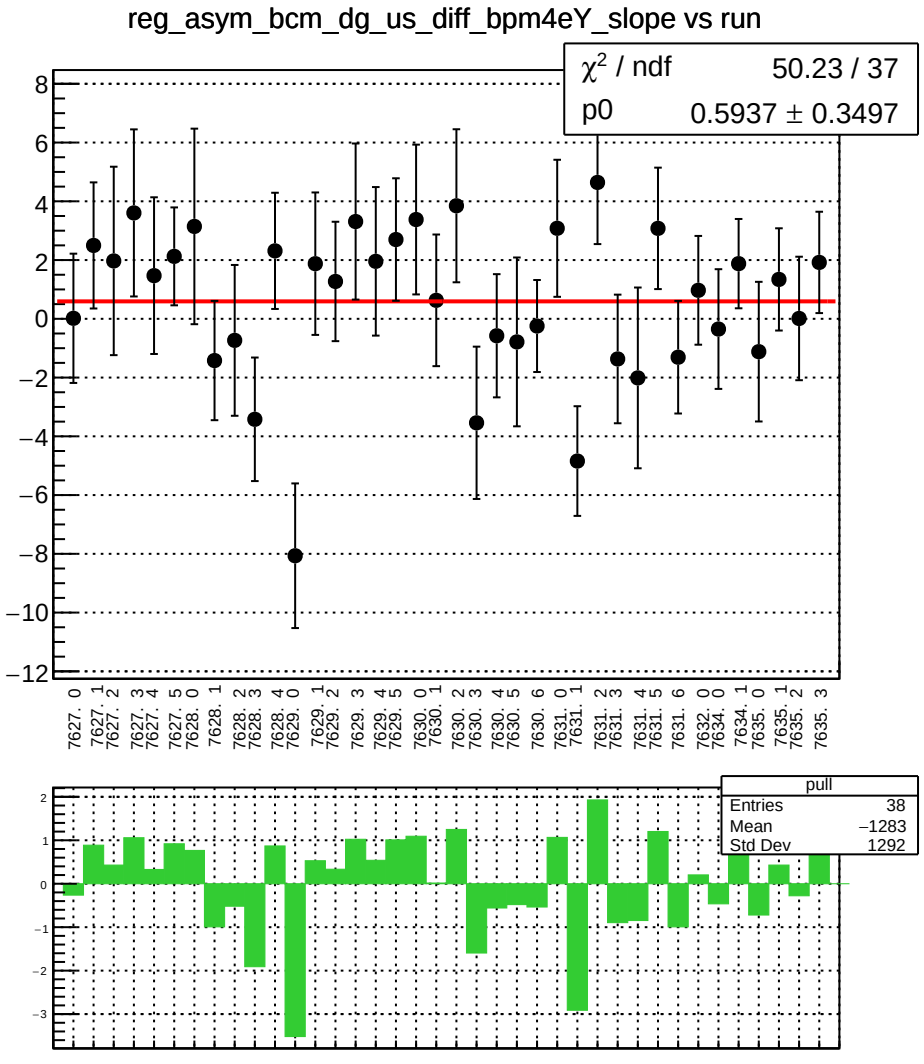

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 55.15 / 37
p0 0.206 ± 0.02483
0.8
0.6
0.4
0.2
0
−0.2
7627. 0
7627. 1
7627. 2
7627. 3
7627. 4
7627. 5
7628. 0
7628. 1
7628. 2
7628. 3
7628. 4
7629. 0
7629. 1
7629. 2
7629. 3
7629. 4
7629. 5
7630. 0
7630. 1
7630. 2
7630. 3
7630. 4
7630. 5
7630. 6
7631. 0
7631. 1
7631. 2
7631. 3
7631. 4
7631. 5
7631. 6
7632. 0
7634. 0
7634. 1
7635. 0
7635. 1
7635. 2
7635. 3
pull
Entries 38
Mean −25.85
Std Dev 44.31
3
2
1
0
−1
−2
pull1D
Entries 38
Mean 0.06208
Std Dev 1.203
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

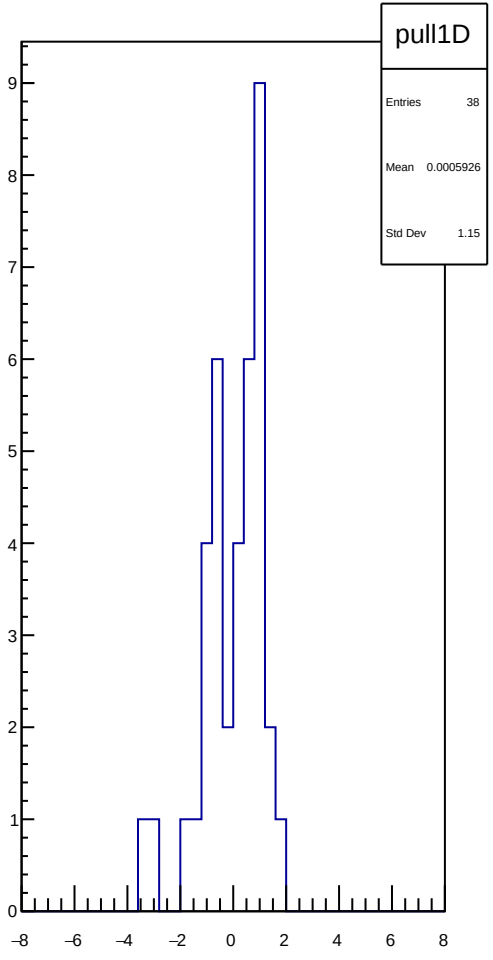

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 54.17 / 37
p0 1.981 ± 0.1933
pull
Entries 38
Mean −61.31
Std Dev 80.29

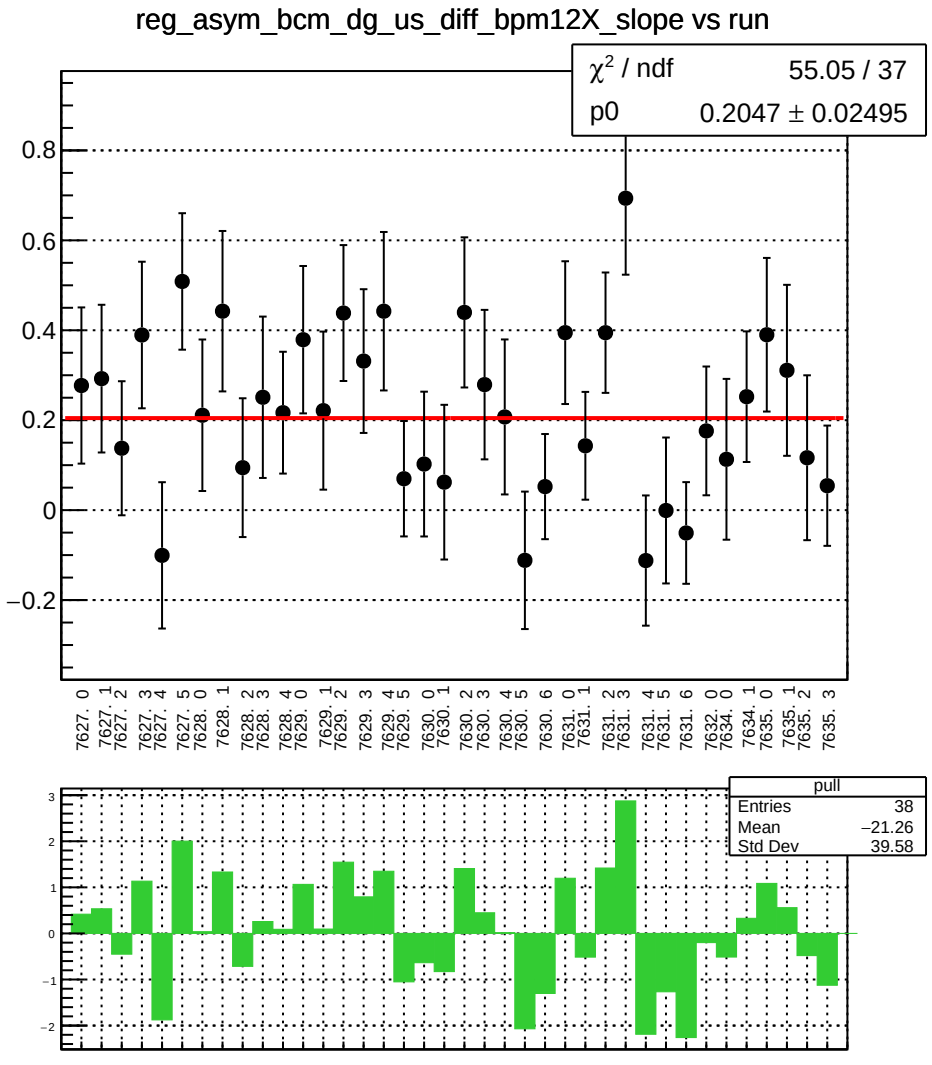

pull1D
Entries 38
Mean 0.04258
Std Dev 1.193

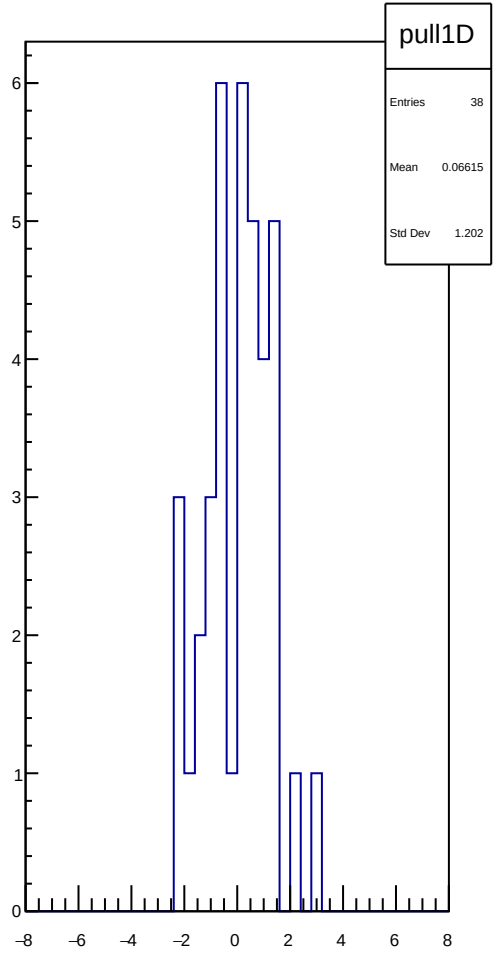

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 50.76 / 37
p0 −0.717 ± 0.2385
pull
Entries 38
Mean 705
Std Dev 695.4
pull1D
Entries 38
Mean 0.00122
Std Dev 1.156


reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 53.95 / 37
p0 −1.682 ± 0.1547
pull
Entries 38
Mean −47.09
Std Dev 67.47
pull1D
Entries 38
Mean −0.04806
Std Dev 1.191


reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 50.23 / 37
p0 0.5937 ± 0.3497
pull
Entries 38
Mean −1283
Std Dev 1292


pull1D
Entries 38
Mean 0.0005926
Std Dev 1.15


reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 55.05 / 37
p0 0.2047 ± 0.02495
pull
Entries 38
Mean −21.26
Std Dev 39.58


pull1D
Entries 38
Mean 0.06615
Std Dev 1.202