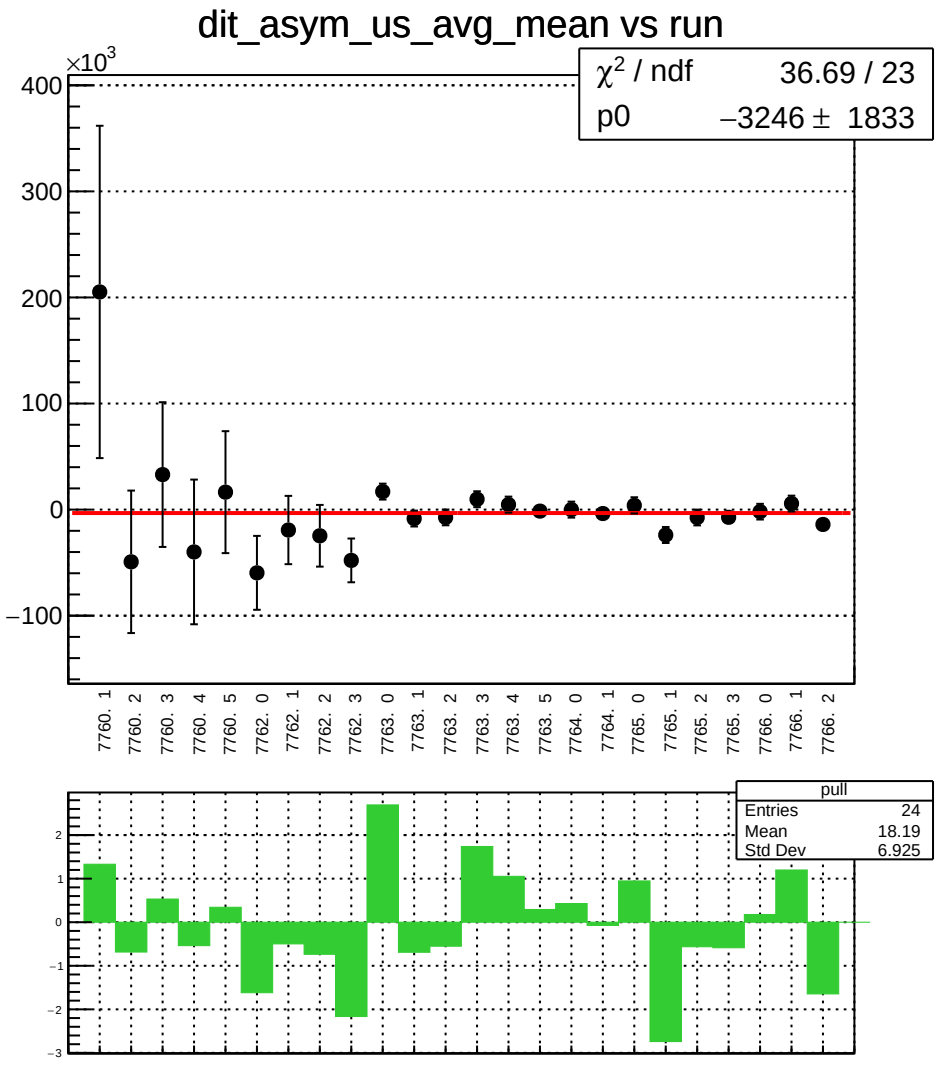
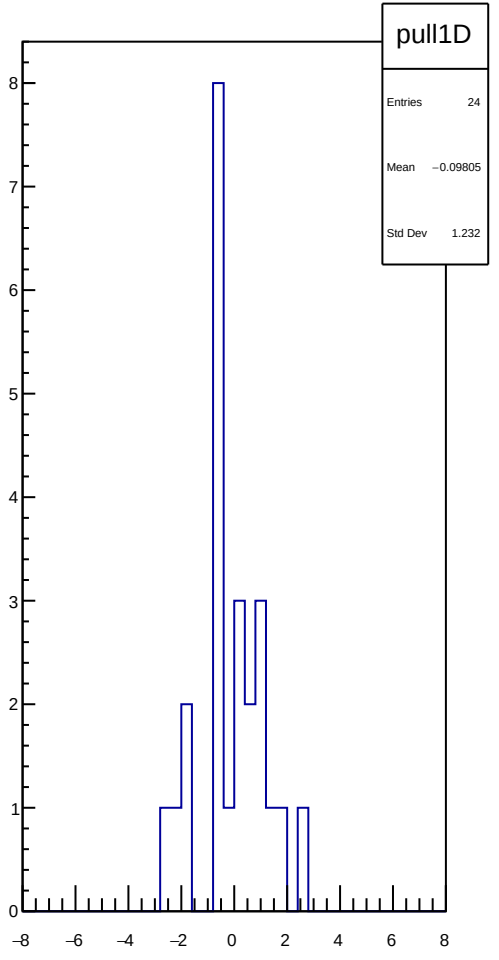
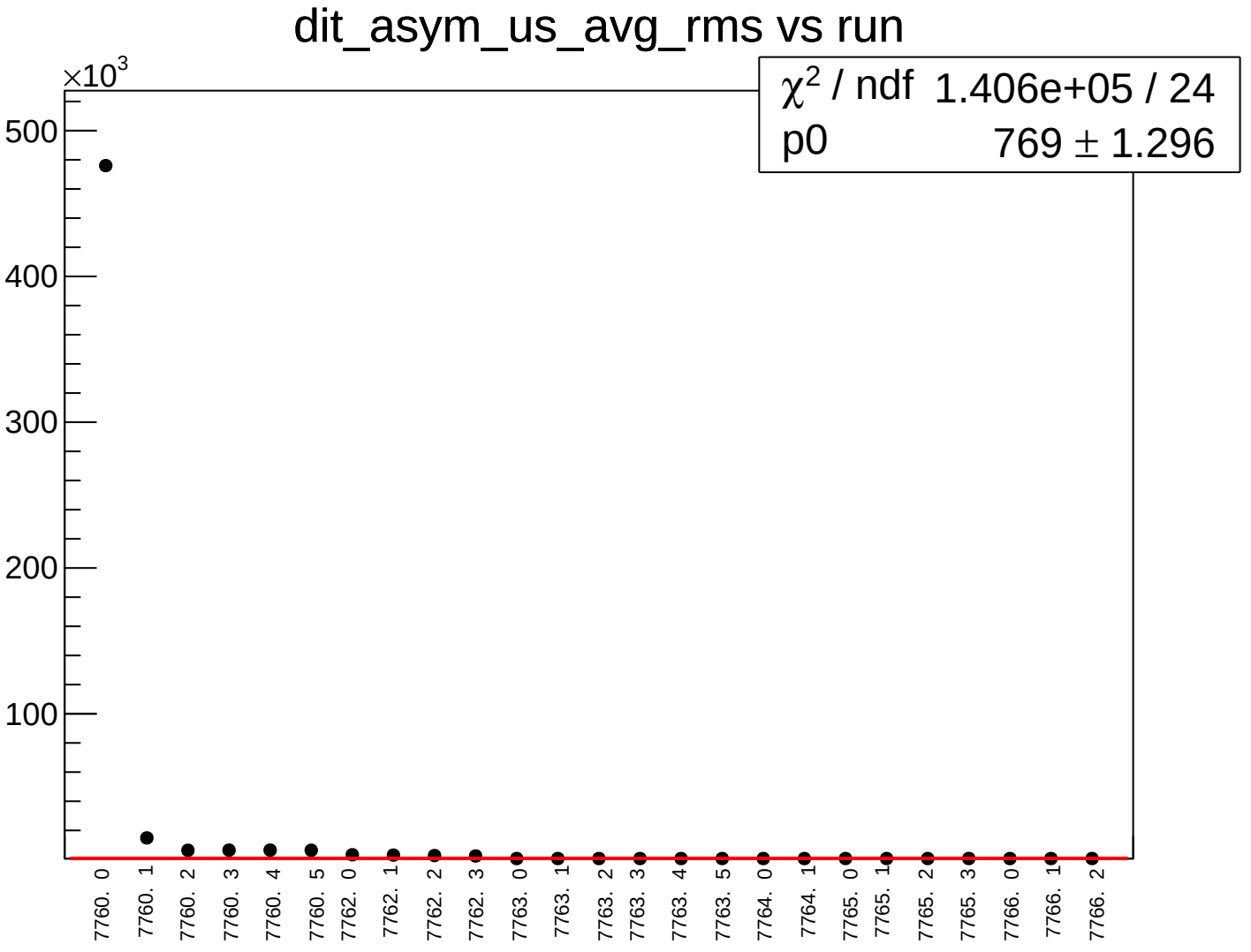
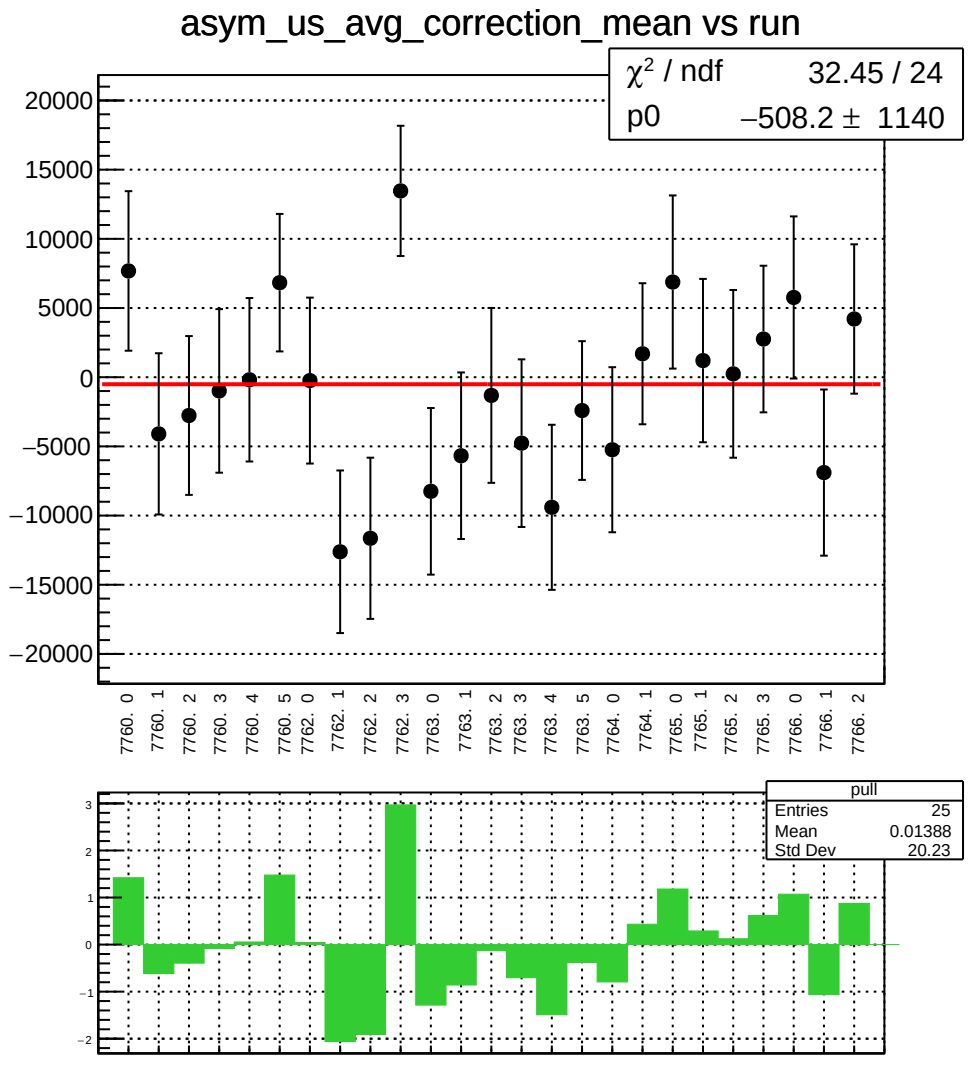
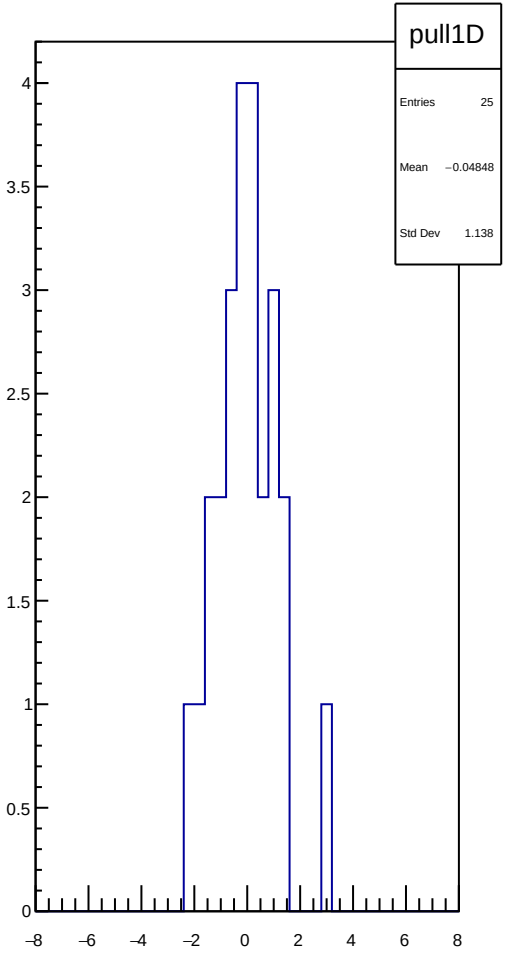
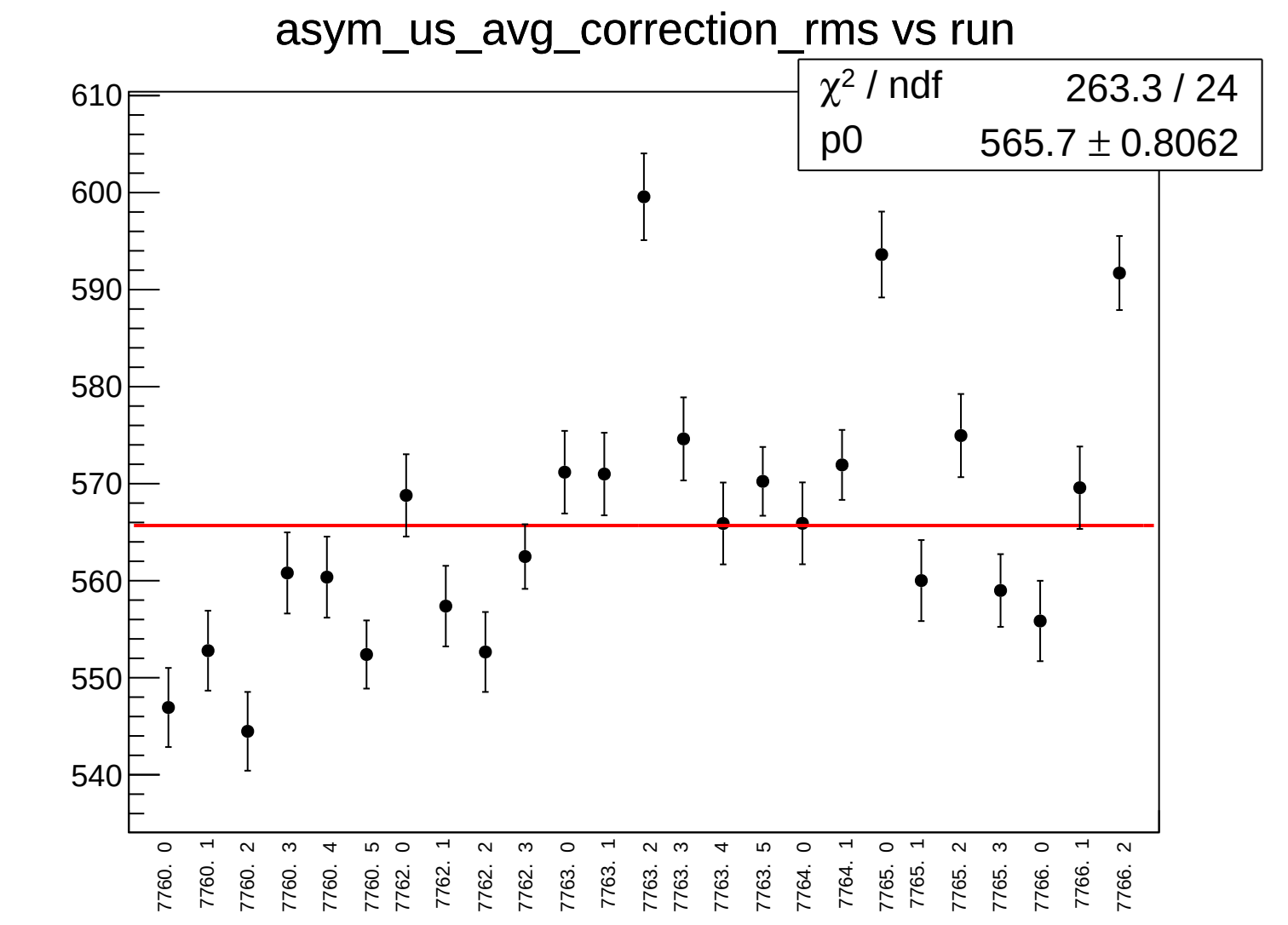

dit_asym_us_avg_mean vs run
×10^3
400
300
200
100
0
−100
χ² / ndf 36.69 / 23
p0 −3246 ± 1833
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 24
Mean 18.19
Std Dev 6.925
2
1
0
−1
−2
−3

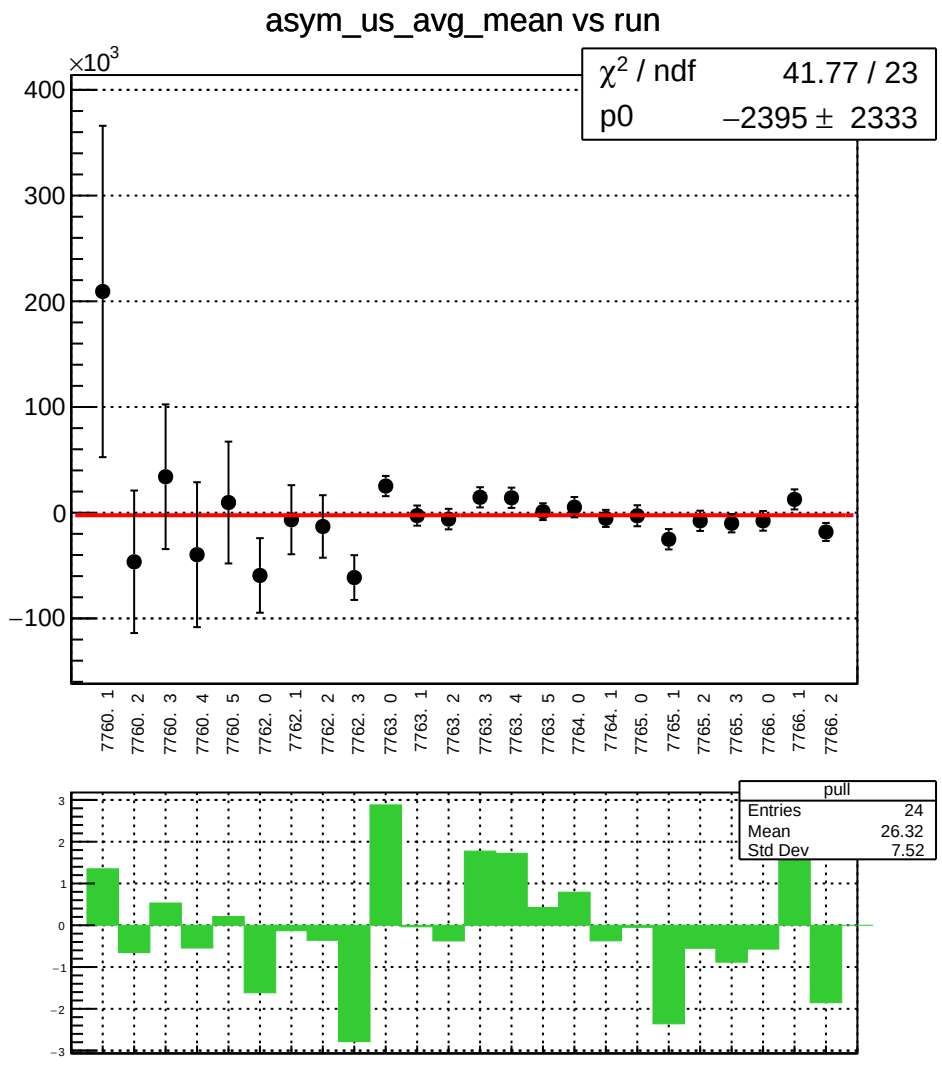

pull1D
Entries 24
Mean −0.09805
Std Dev 1.232
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

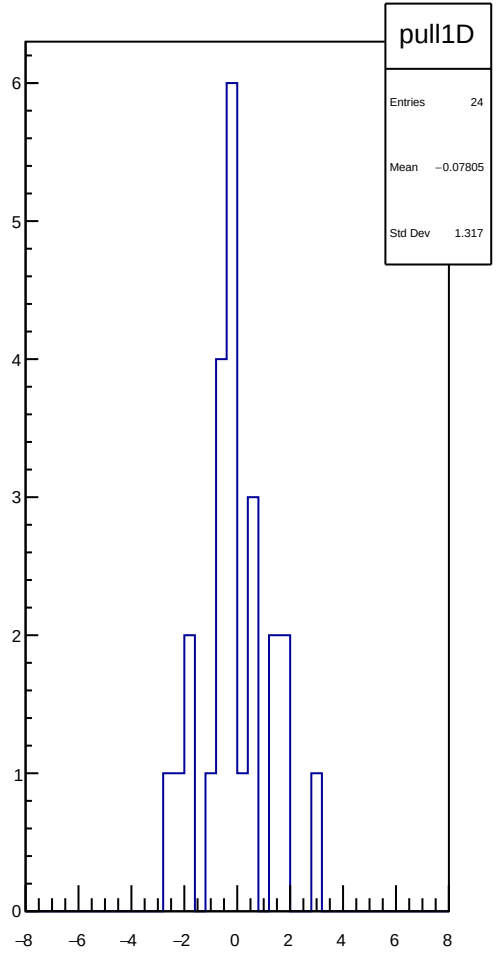

dit_asym_us_avg_rms vs run
×10^3
500
400
300
200
100
χ² / ndf 1.406e+05 / 24
p0 769 ± 1.296
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

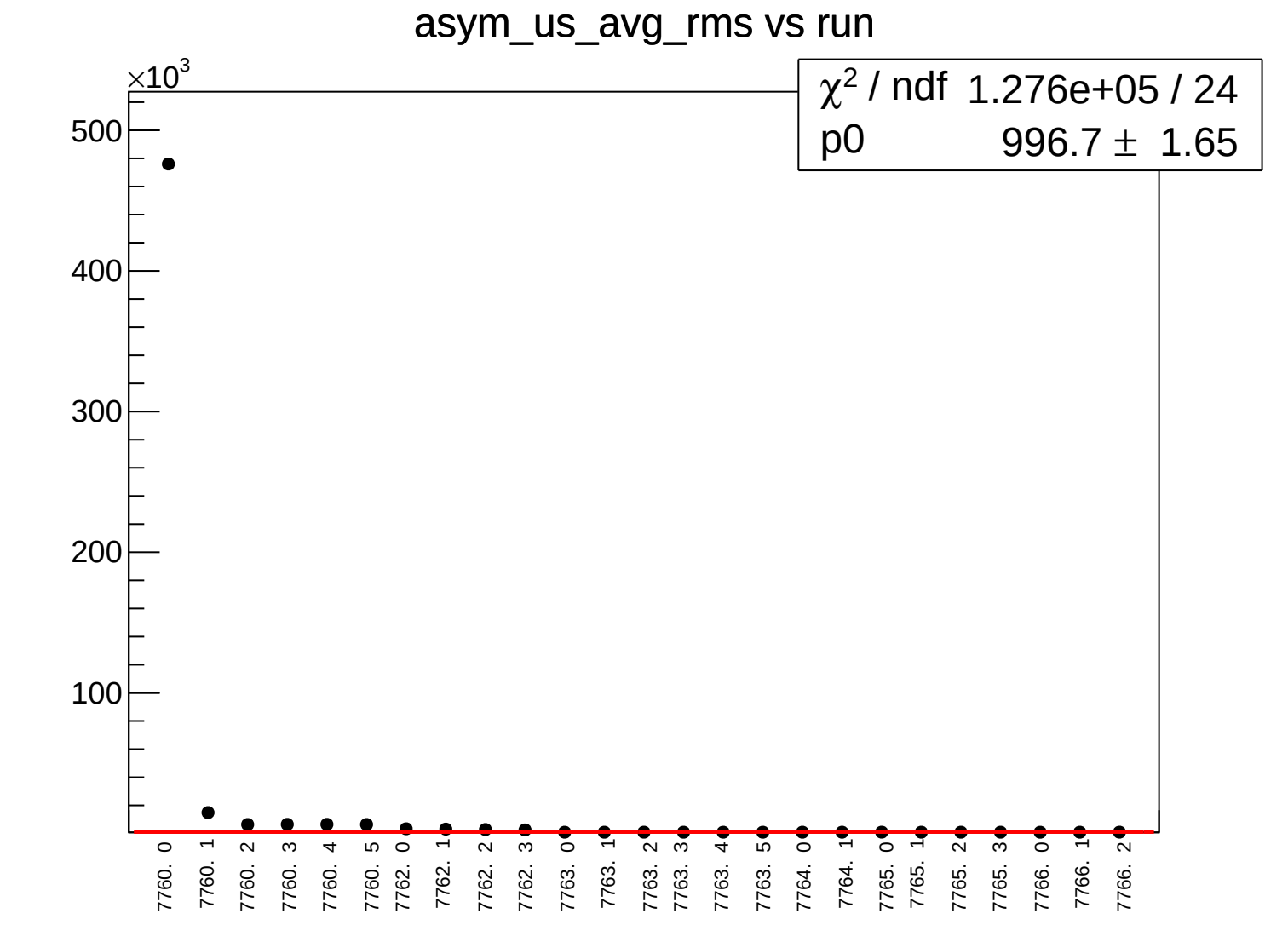

asym_us_avg_correction_mean vs run
χ² / ndf 32.45 / 24
p0 −508.2 ± 1140
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 0.01388
Std Dev 20.23
3
2
1
0
−1
−2

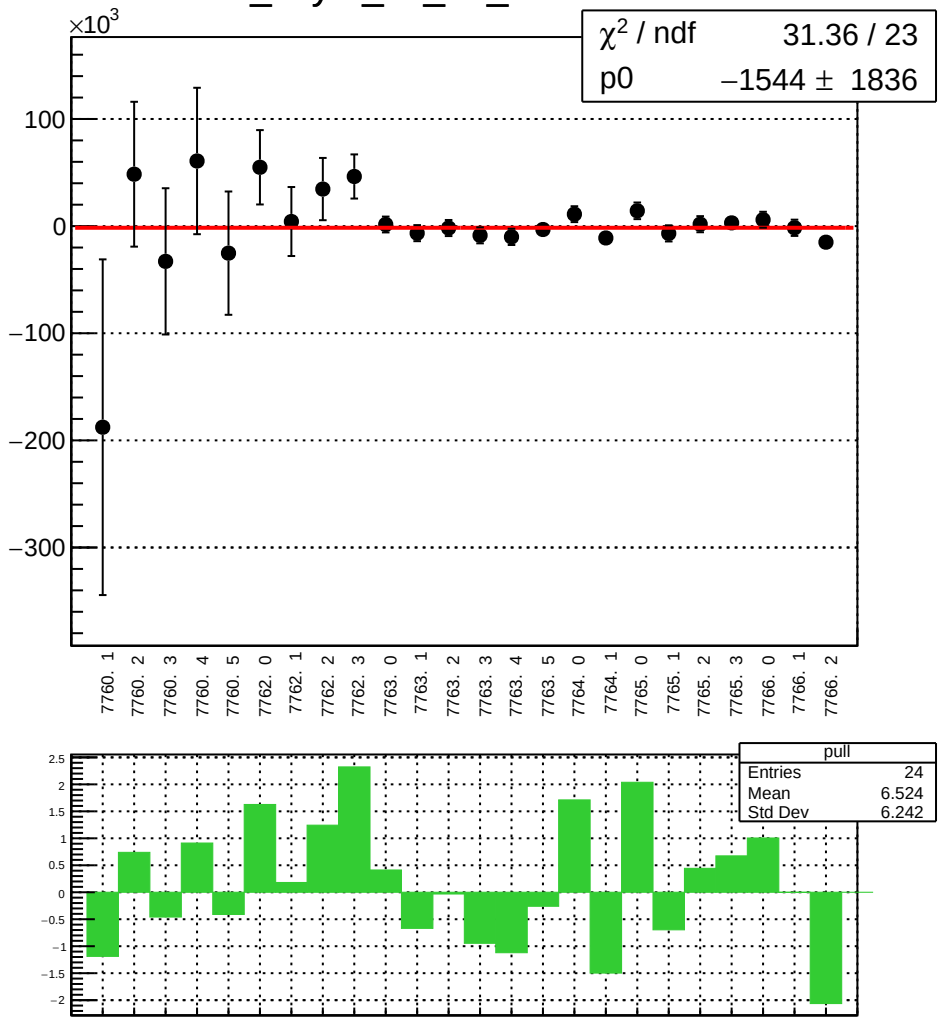

pull1D
Entries 25
Mean −0.04848
Std Dev 1.138
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

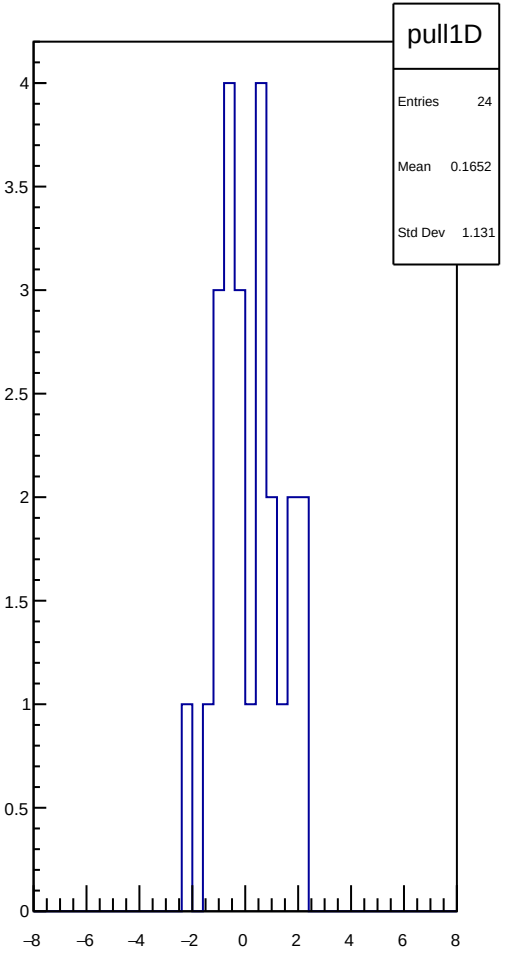

asym_us_avg_correction_rms vs run
χ² / ndf 263.3 / 24
p0 565.7 ± 0.8062
610
600
590
580
570
560
550
540
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

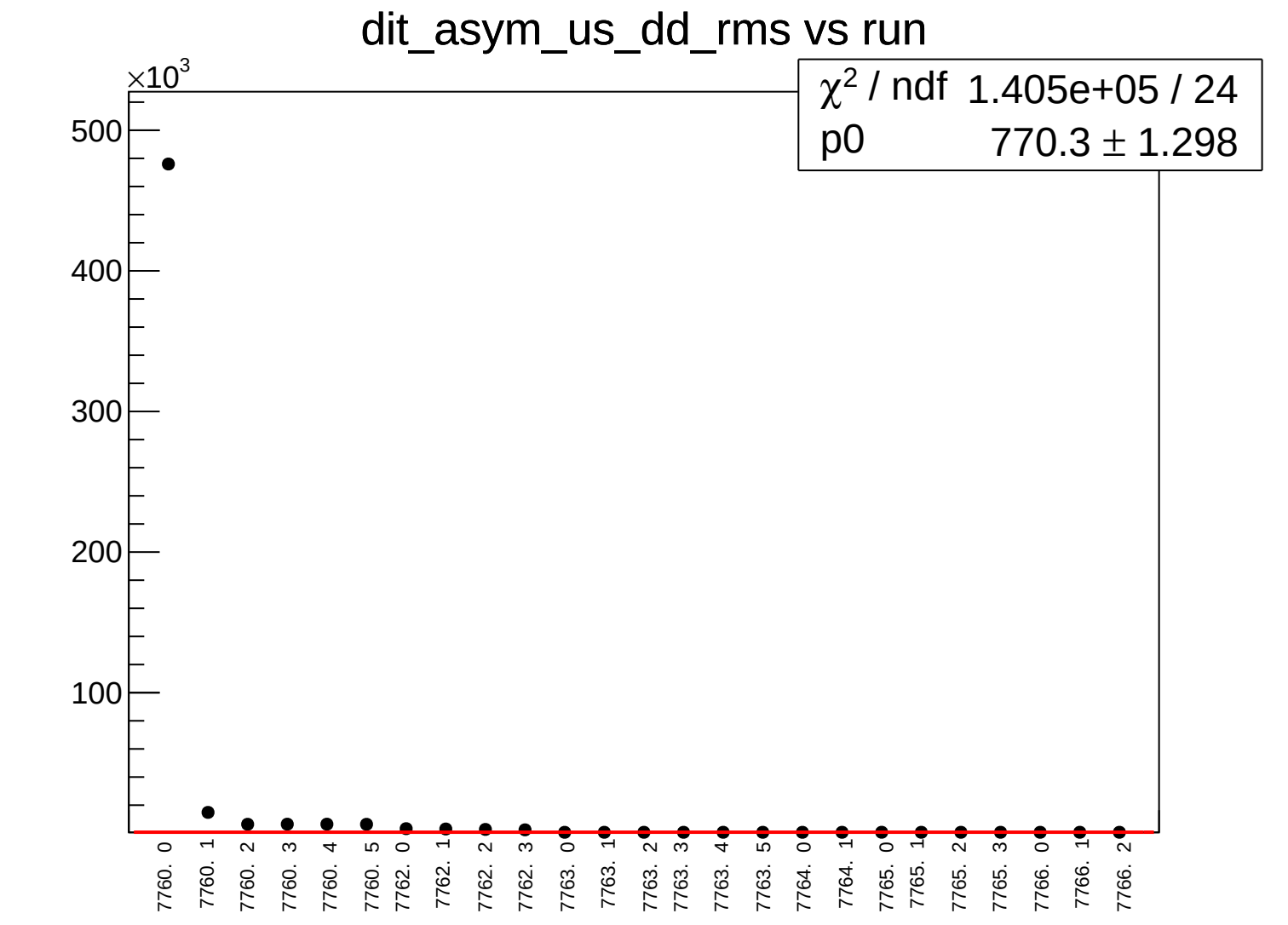

asym_us_avg_mean vs run
×10^3
400
300
200
100
0
−100
χ² / ndf 41.77 / 23
p0 −2395 ± 2333
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 24
Mean 26.32
Std Dev 7.52
3
2
1
0
−1
−2
−3

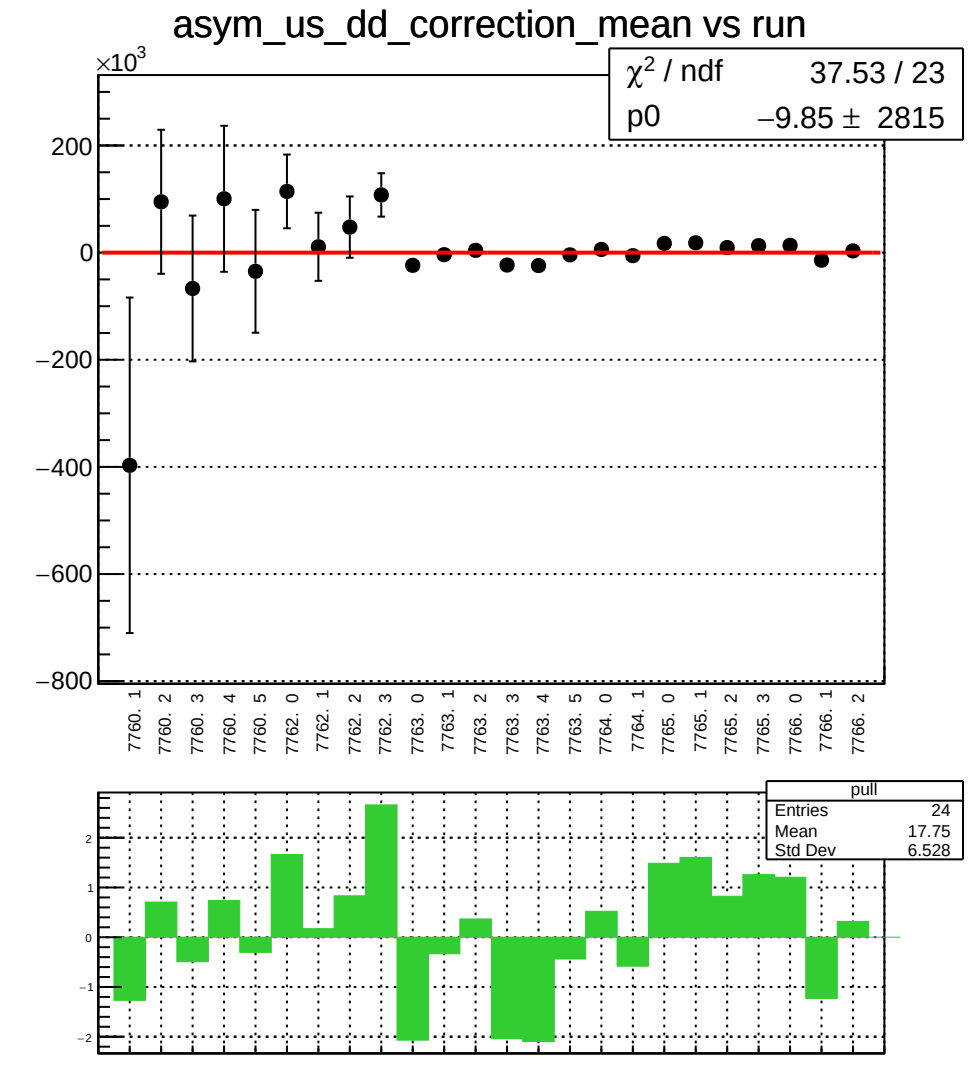

pull1D
Entries 24
Mean −0.07805
Std Dev 1.317
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

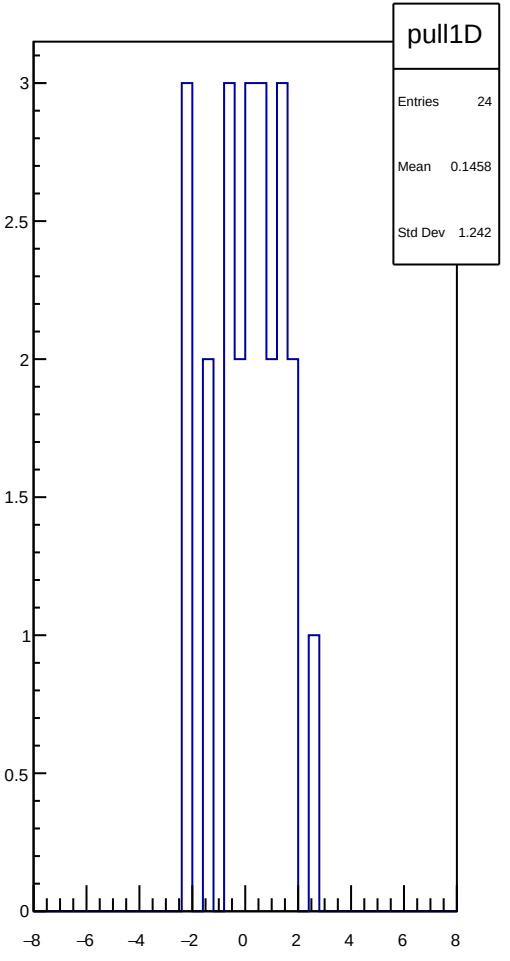

asym_us_avg_rms vs run
×10^3
500
400
300
200
100
χ² / ndf 1.276e+05 / 24
p0 996.7 ± 1.65
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

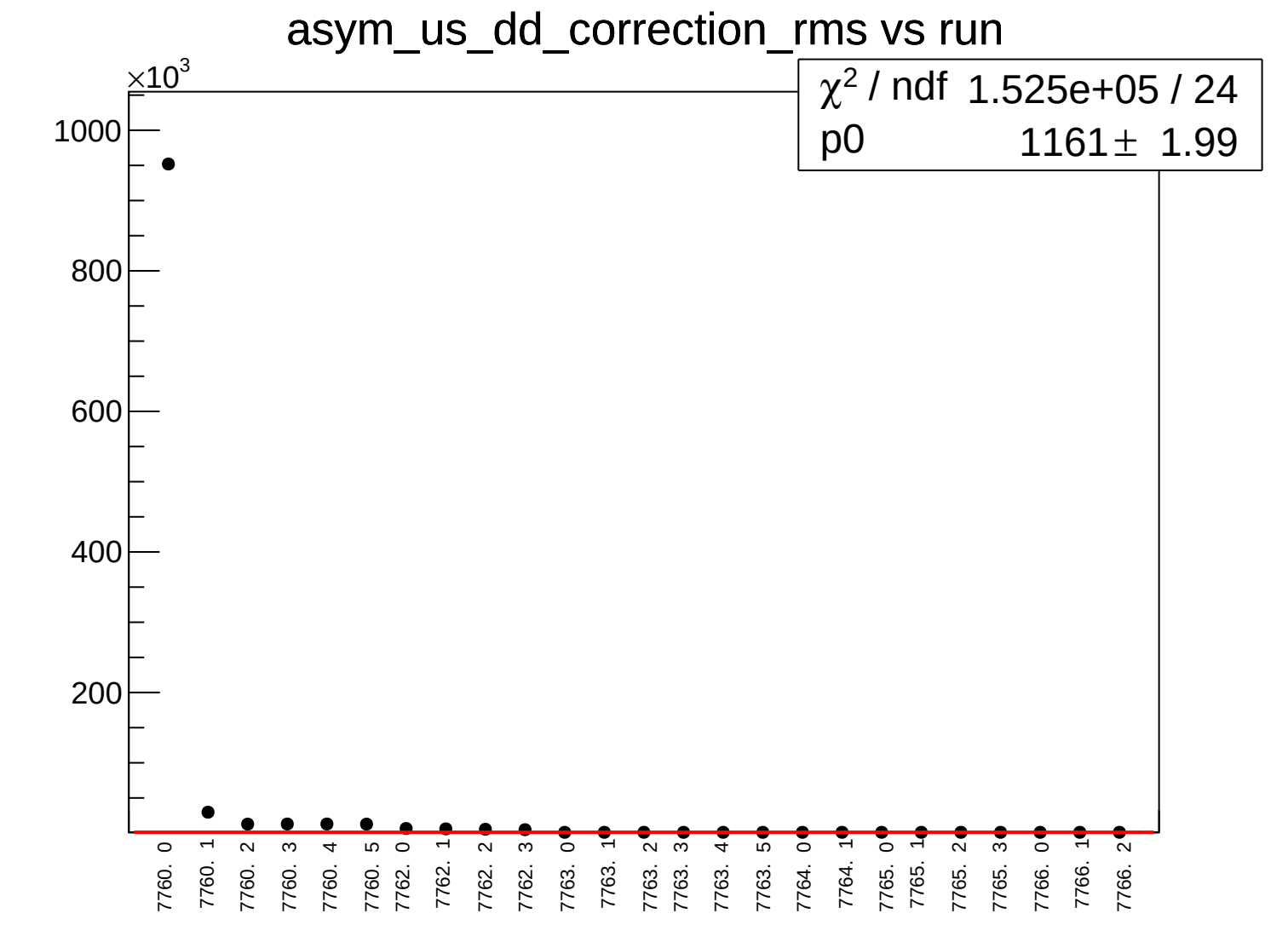

dit_asym_us_dd_mean vs run
×10^3
χ^2 / ndf 31.36 / 23
p0 −1544 ± 1836
100
0
−100
−200
−300
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 24
Mean 6.524
Std Dev 6.242
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

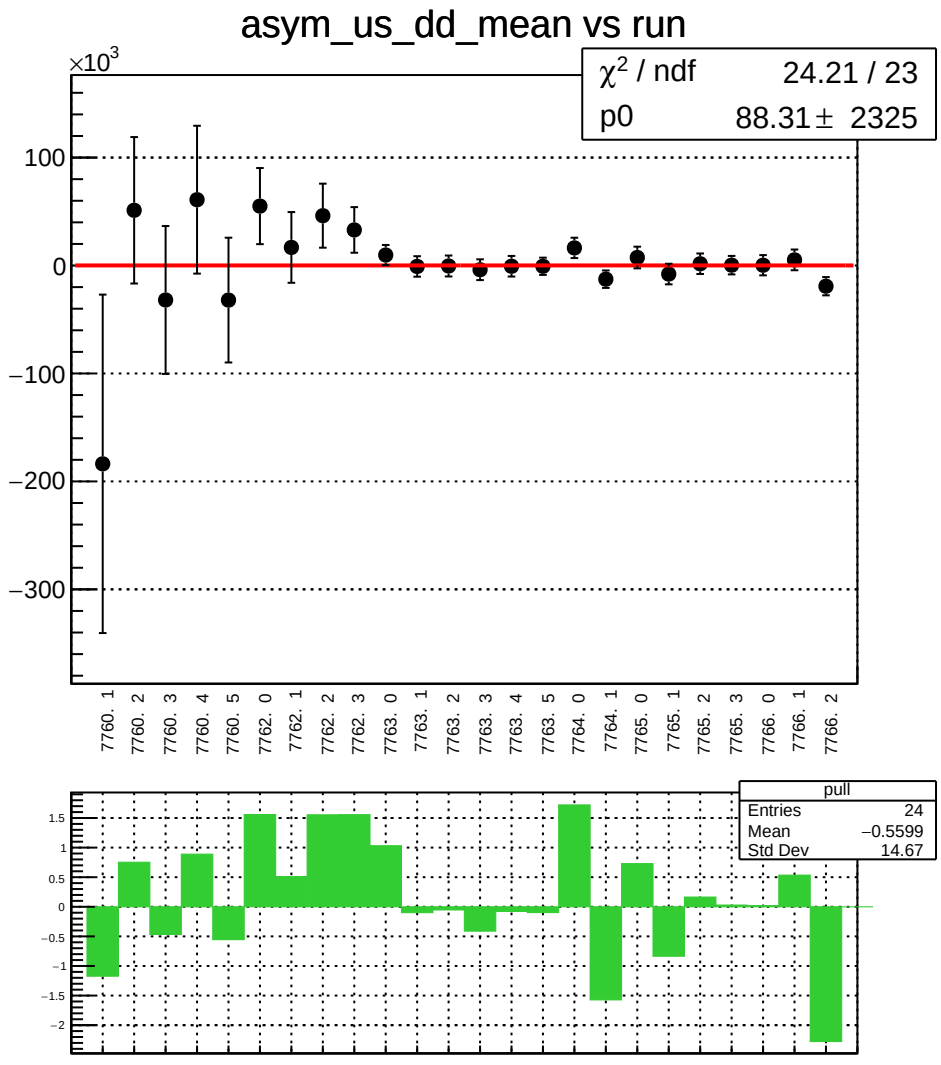

pull1D
Entries 24
Mean 0.1652
Std Dev 1.131
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

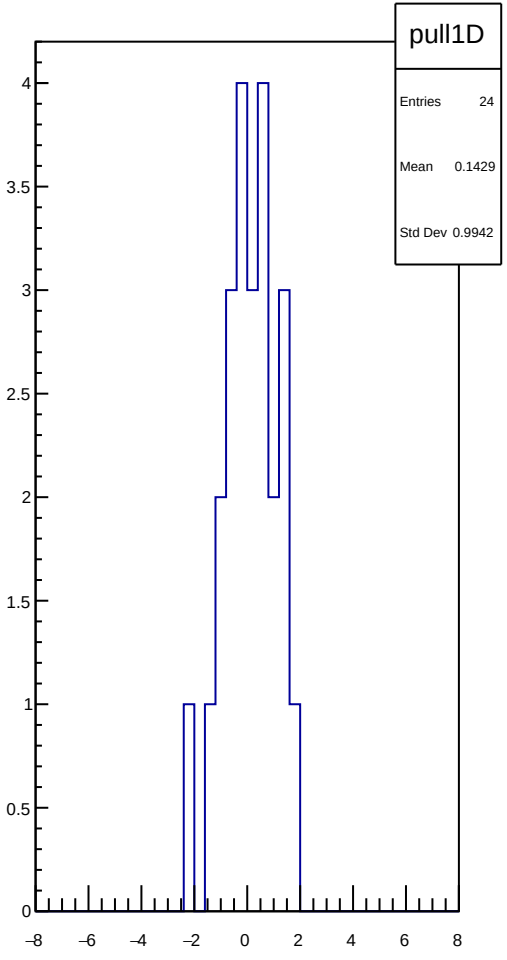

dit_asym_us_dd_rms vs run
×10^3
500
400
300
200
100
χ² / ndf 1.405e+05 / 24
p0 770.3 ± 1.298
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

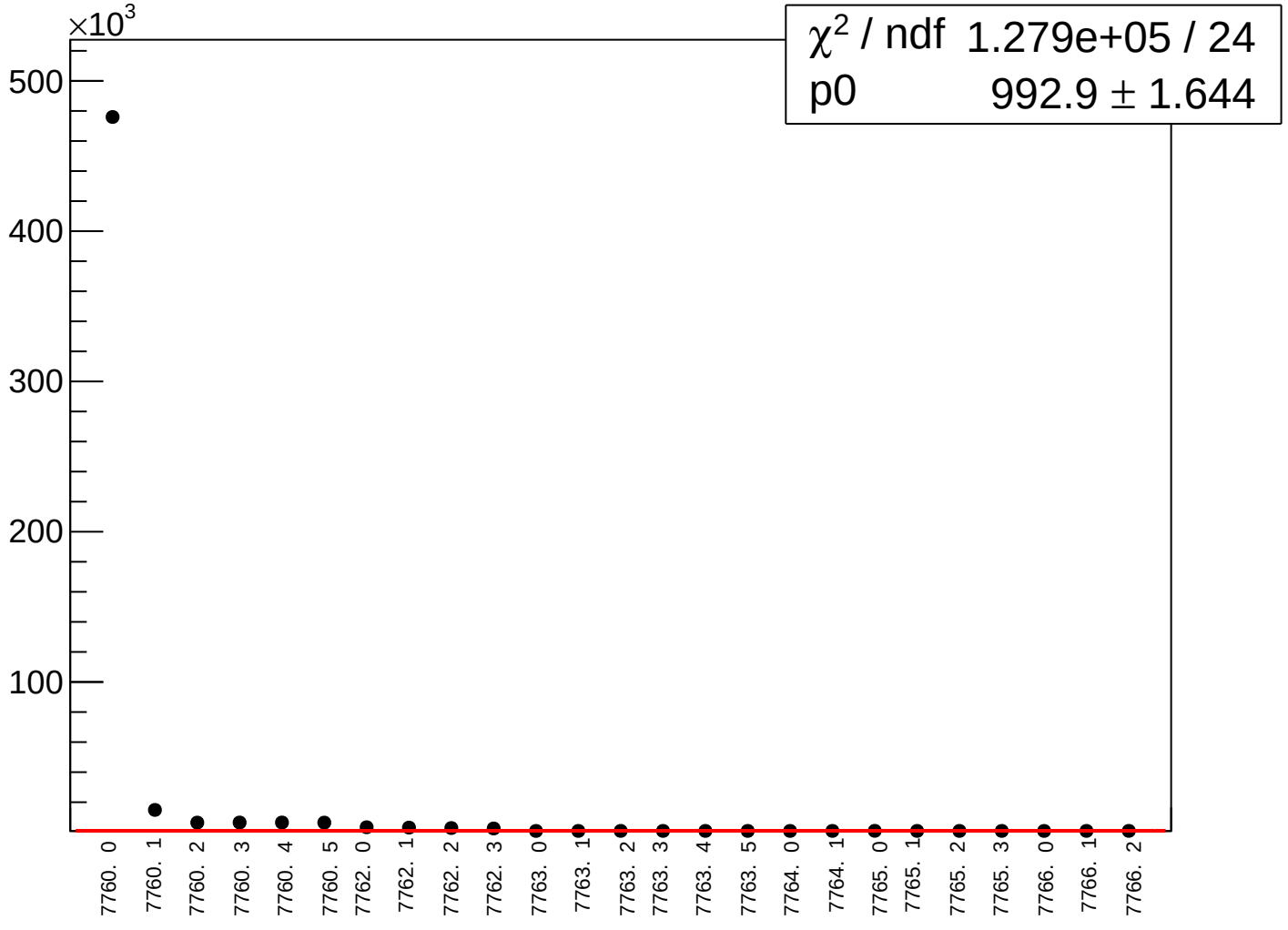

asym_us_dd_correction_mean vs run
×10^3
χ^2 / ndf 37.53 / 23
p0 −9.85 ± 2815
200
0
−200
−400
−600
−800
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 24
Mean 17.75
Std Dev 6.528
2
1
0
−1
−2

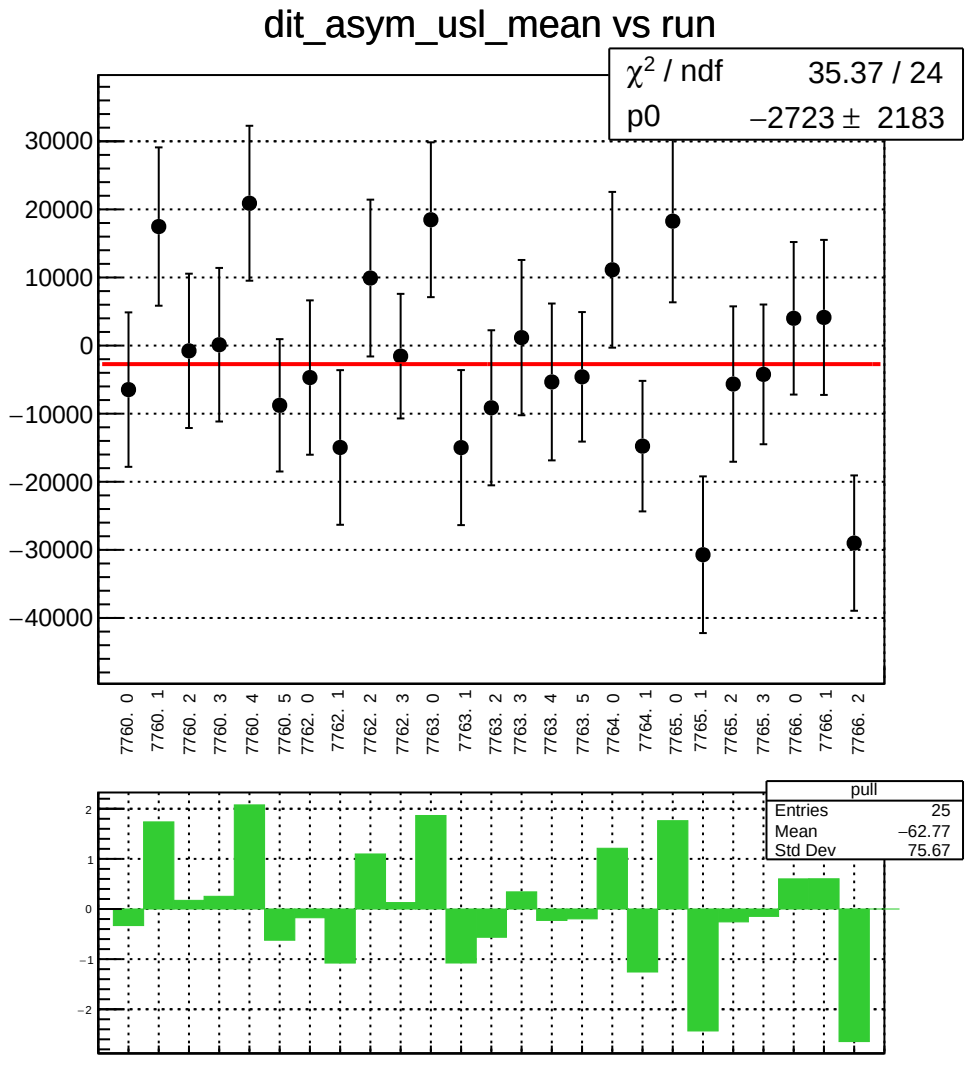

pull1D
Entries 24
Mean 0.1458
Std Dev 1.242
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

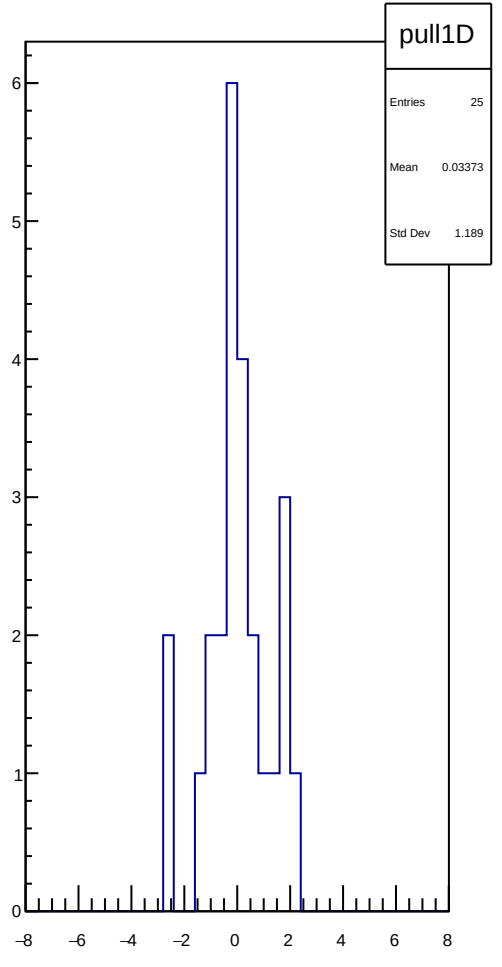

asym_us_dd_correction_rms vs run
×10^3
1000
800
600
400
200
χ² / ndf 1.525e+05 / 24
p0 1161 ± 1.99
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

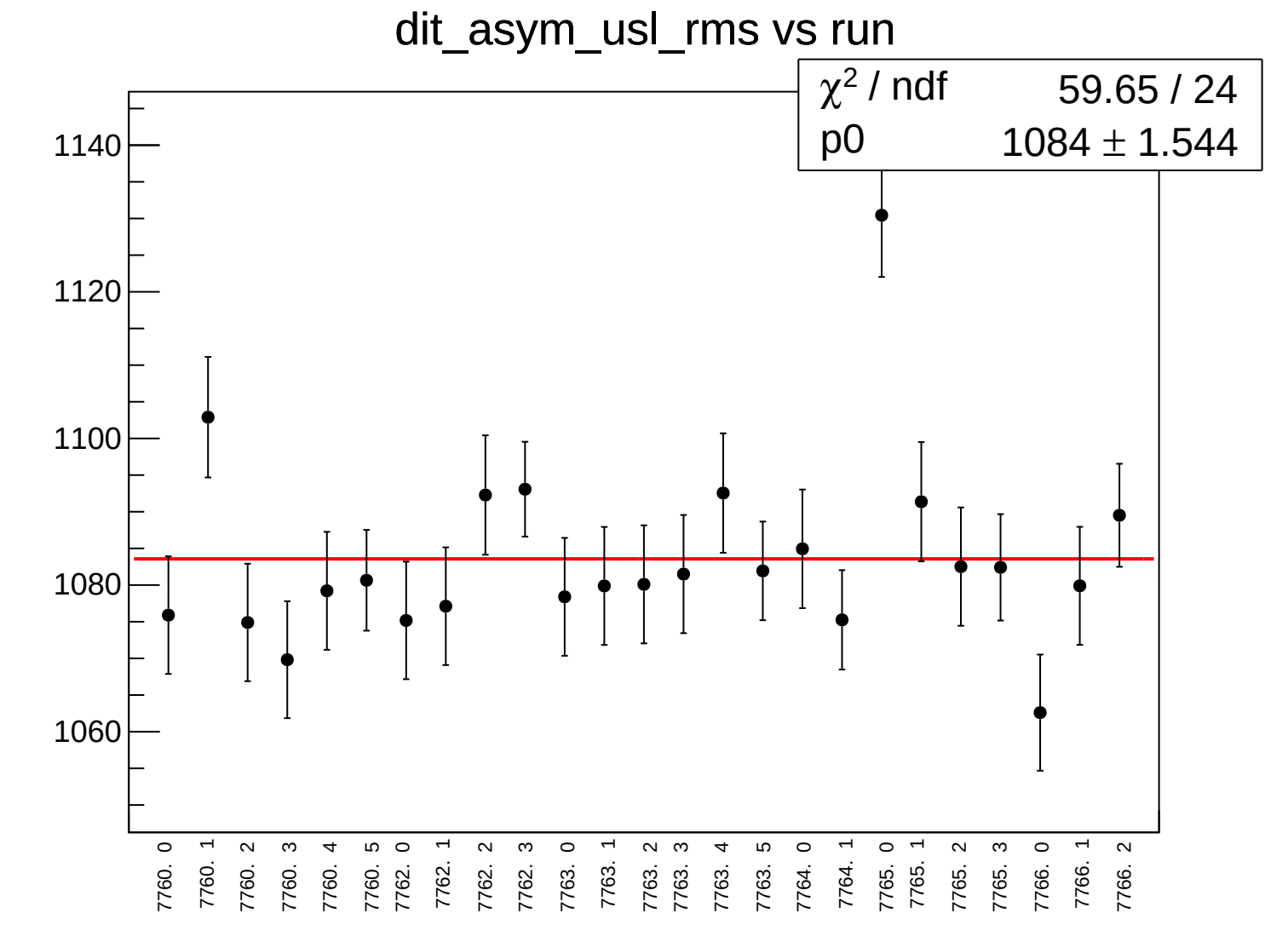

asym_us_dd_mean vs run
×10^3
χ^2 / ndf 24.21 / 23
p0 88.31 ± 2325
100
0
−100
−200
−300
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 24
Mean −0.5599
Std Dev 14.67
1.5
1
0.5
0
−0.5
−1
−1.5
−2

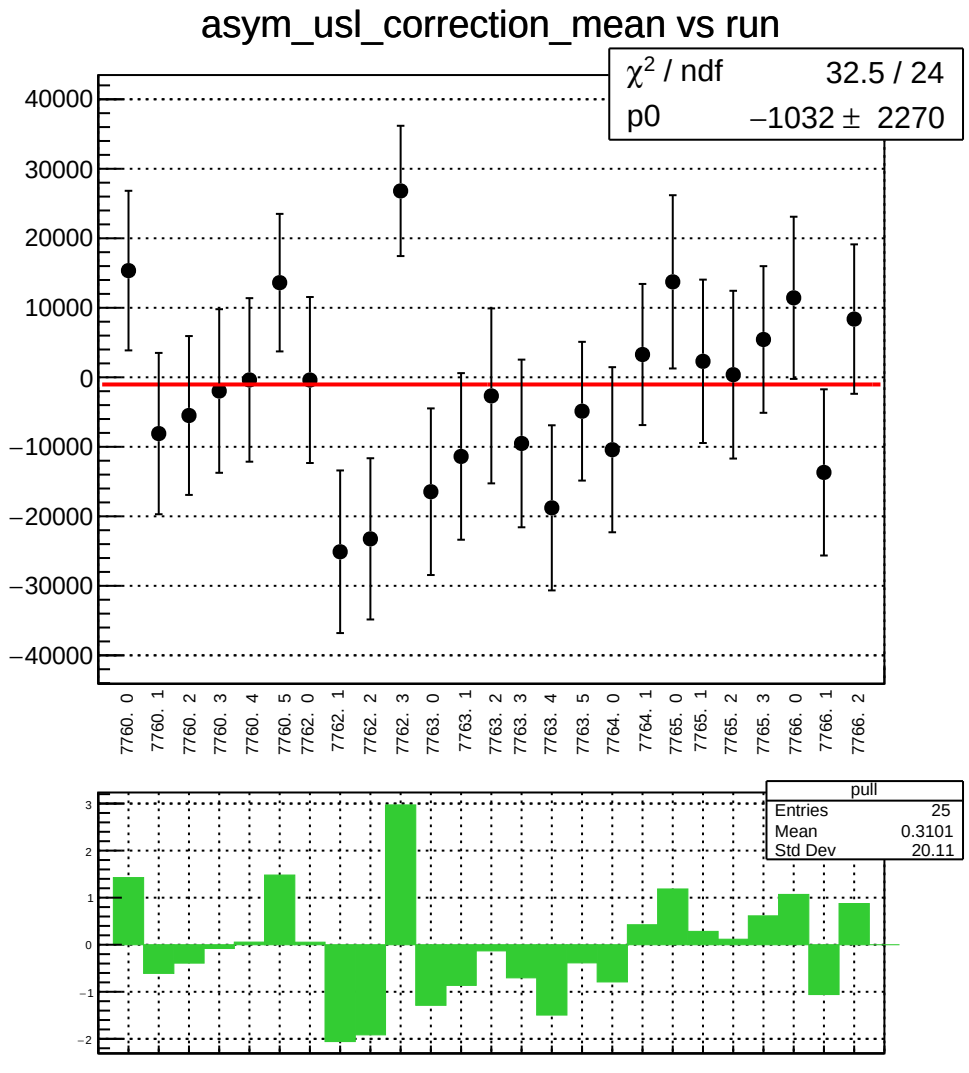

pull1D
Entries 24
Mean 0.1429
Std Dev 0.9942
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

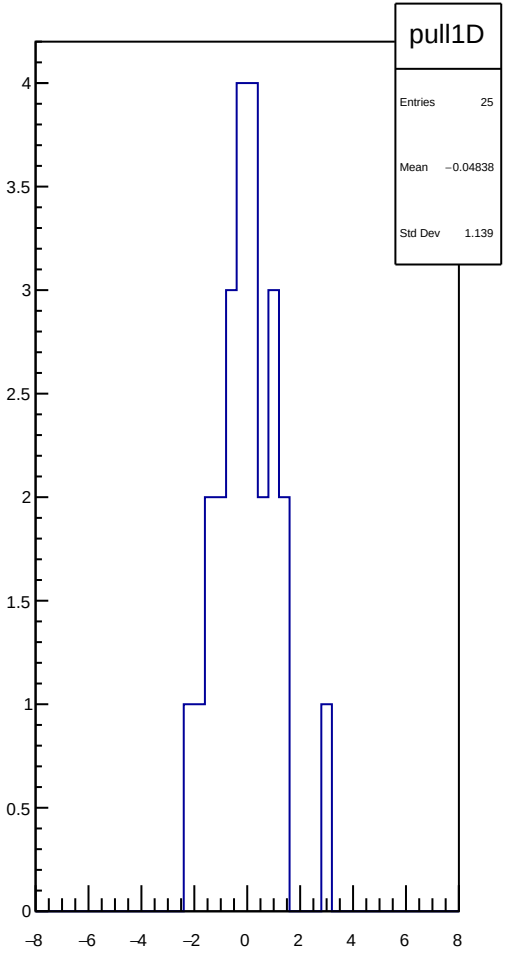

asym_us_dd_rms vs run
×10^3
500
400
300
200
100
χ² / ndf 1.279e+05 / 24
p0 992.9 ± 1.644
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

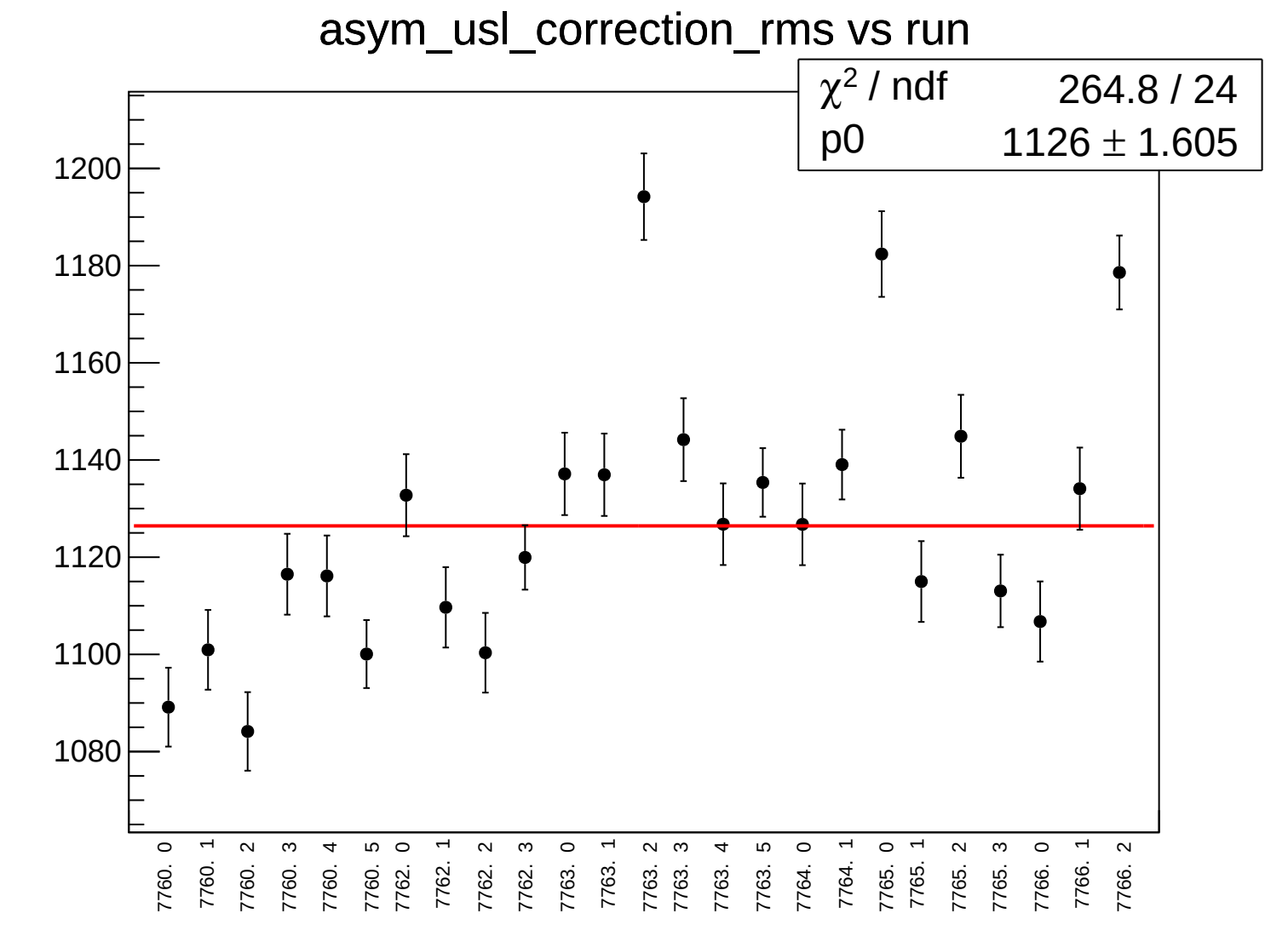

dit_asym_usl_mean vs run
χ² / ndf 35.37 / 24
p0 −2723 ± 2183
30000
20000
10000
0
−10000
−20000
−30000
−40000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −62.77
Std Dev 75.67
2
1
0
−1
−2

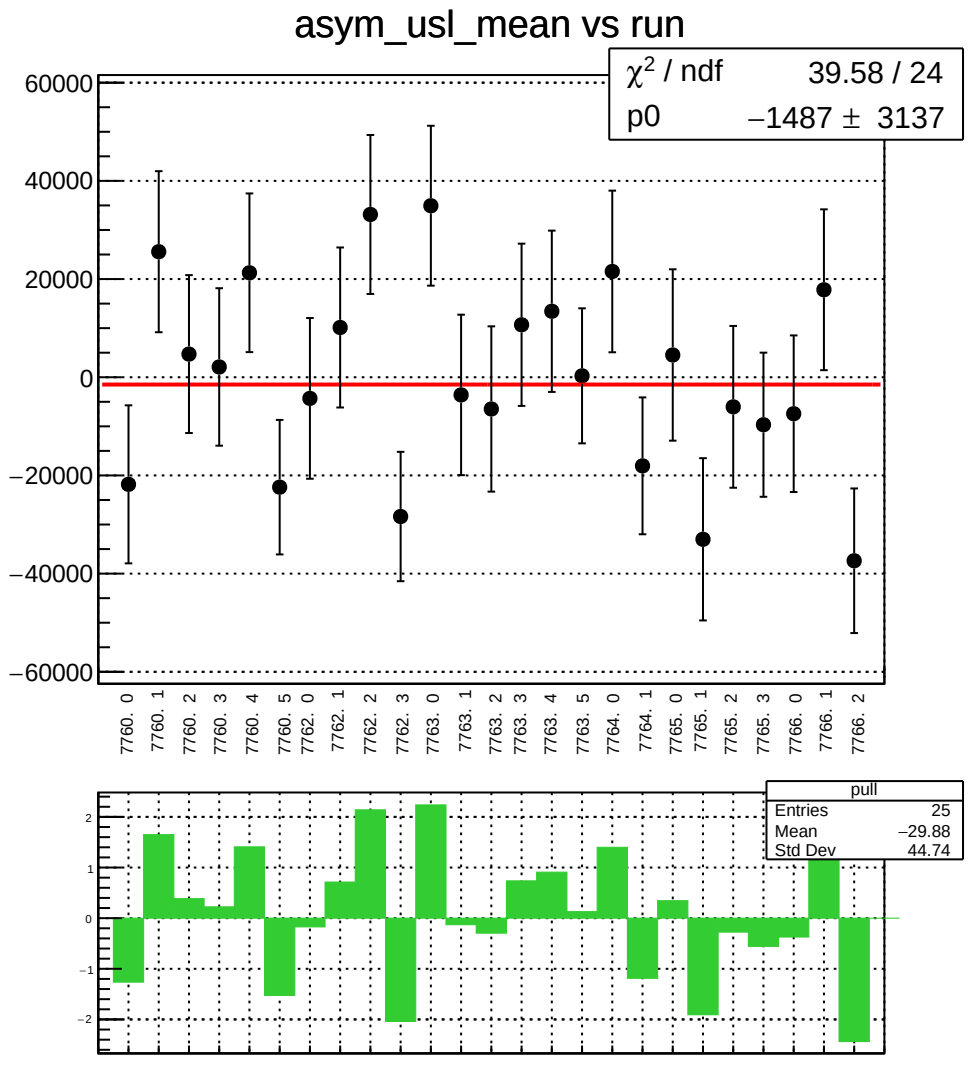

pull1D
Entries 25
Mean 0.03373
Std Dev 1.189
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

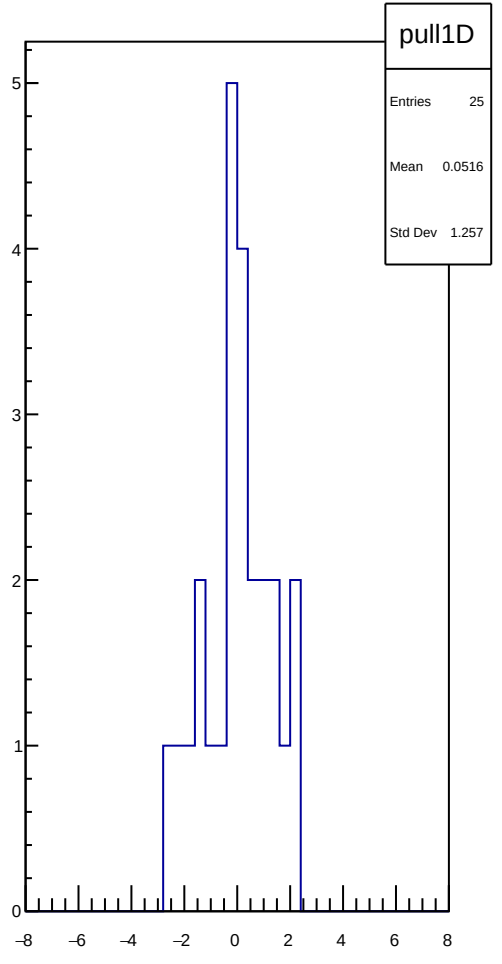

dit_asym_usl_rms vs run
χ² / ndf 59.65 / 24
p0 1084 ± 1.544
1140
1120
1100
1080
1060
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

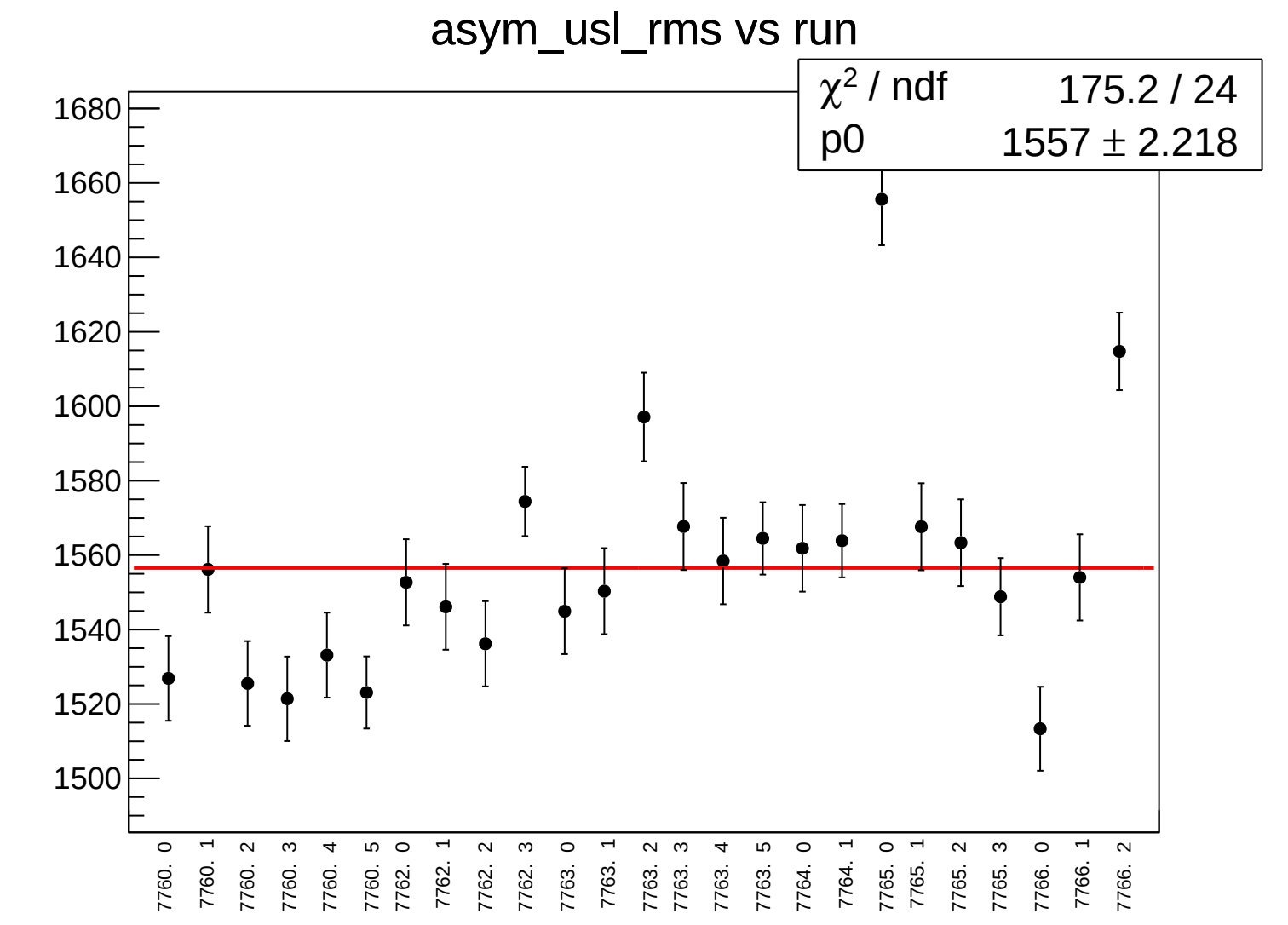

asym_usl_correction_mean vs run
χ² / ndf 32.5 / 24
p0 −1032 ± 2270
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 0.3101
Std Dev 20.11
3
2
1
0
−1
−2

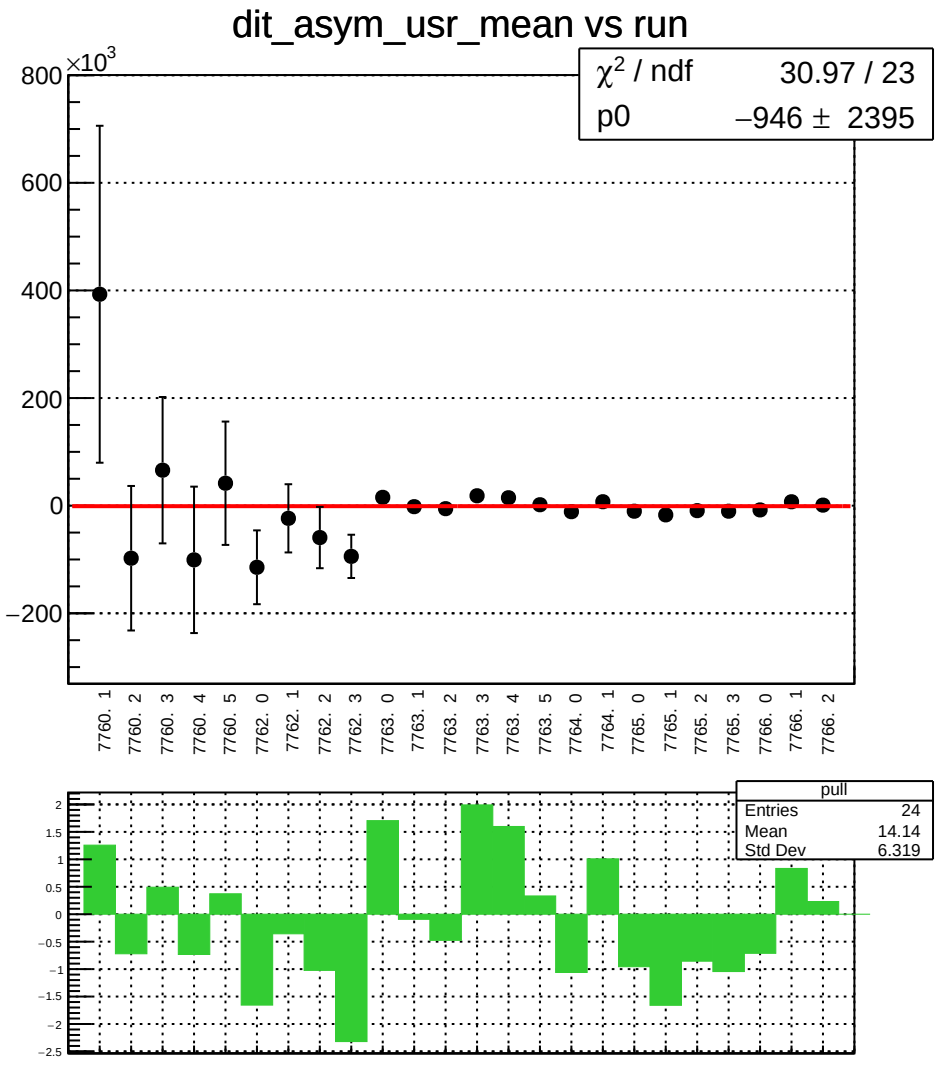

pull1D
Entries 25
Mean −0.04838
Std Dev 1.139
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

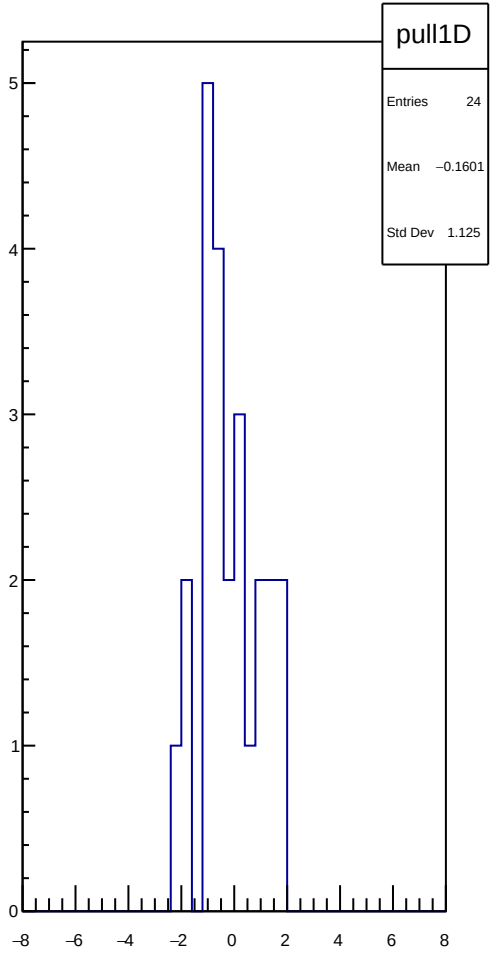

asym_usl_correction_rms vs run
χ² / ndf 264.8 / 24
p0 1126 ± 1.605
1200
1180
1160
1140
1120
1100
1080
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

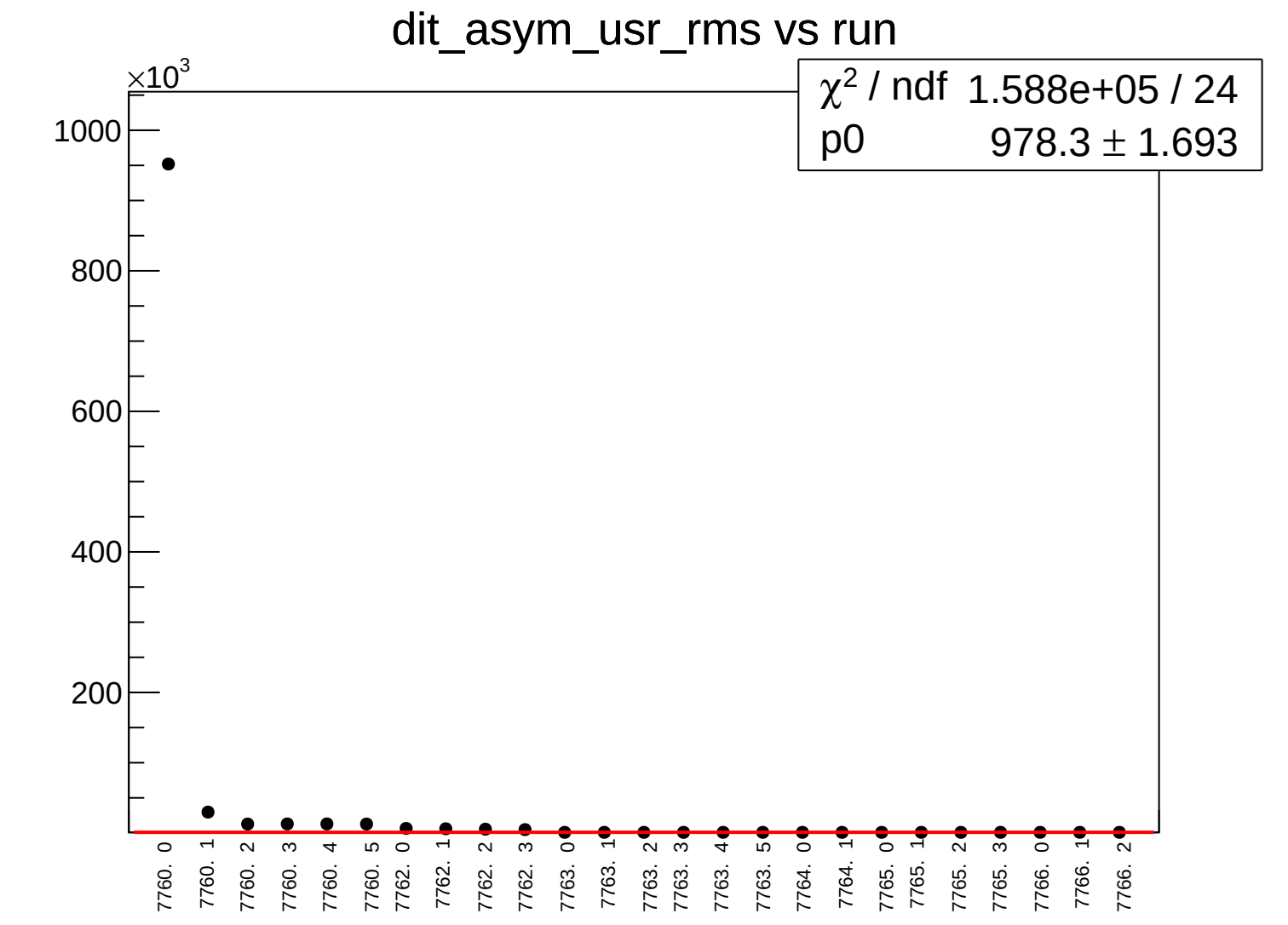

asym_usl_mean vs run
χ² / ndf 39.58 / 24
p0 −1487 ± 3137
60000
40000
20000
0
−20000
−40000
−60000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −29.88
Std Dev 44.74
2
1
0
−1
−2

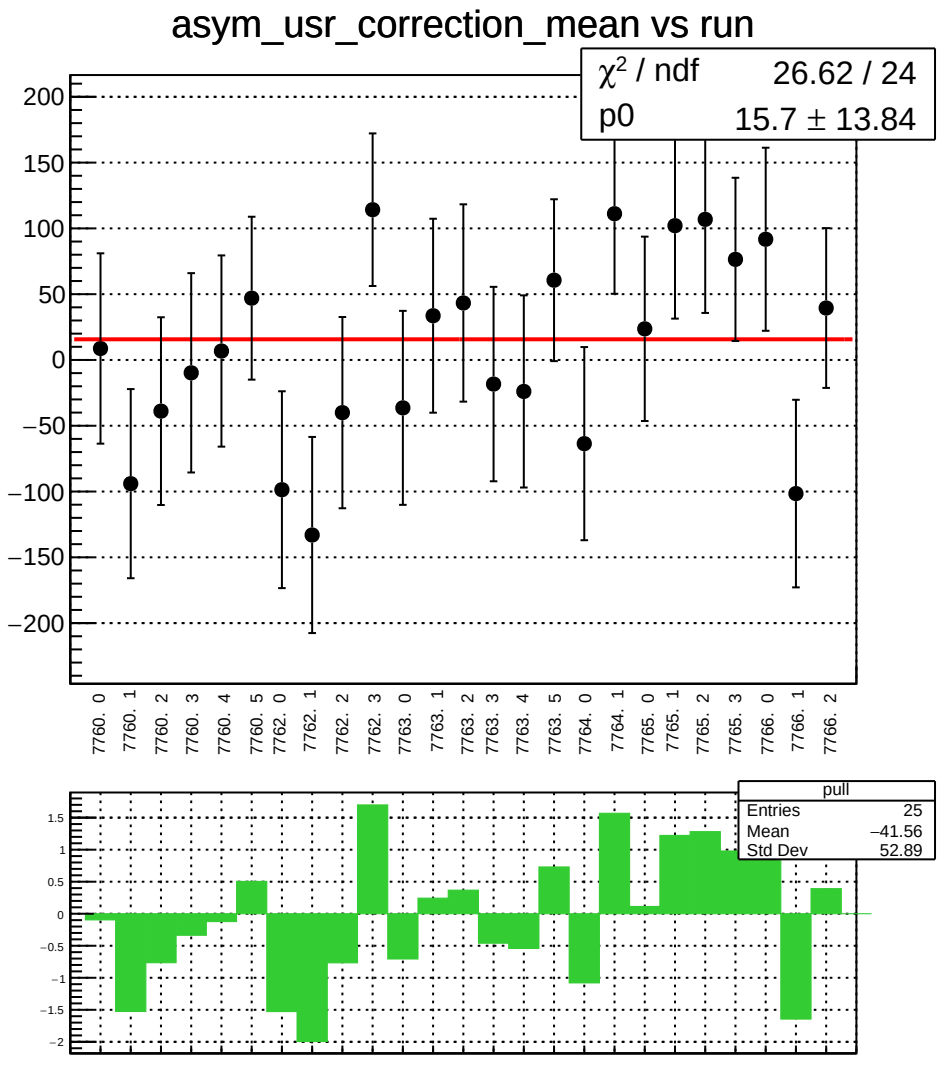

pull1D
Entries 25
Mean 0.0516
Std Dev 1.257
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

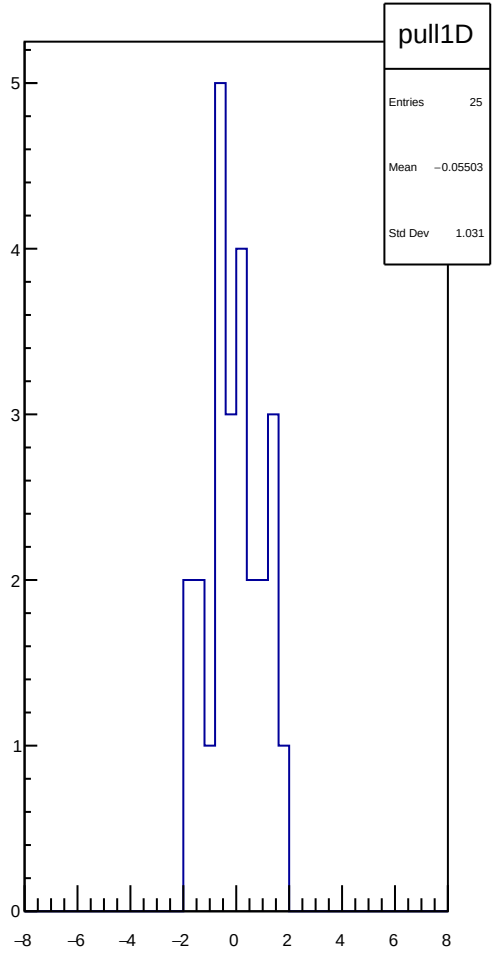

asym_usl_rms vs run
χ² / ndf 175.2 / 24
p0 1557 ± 2.218
1680
1660
1640
1620
1600
1580
1560
1540
1520
1500
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

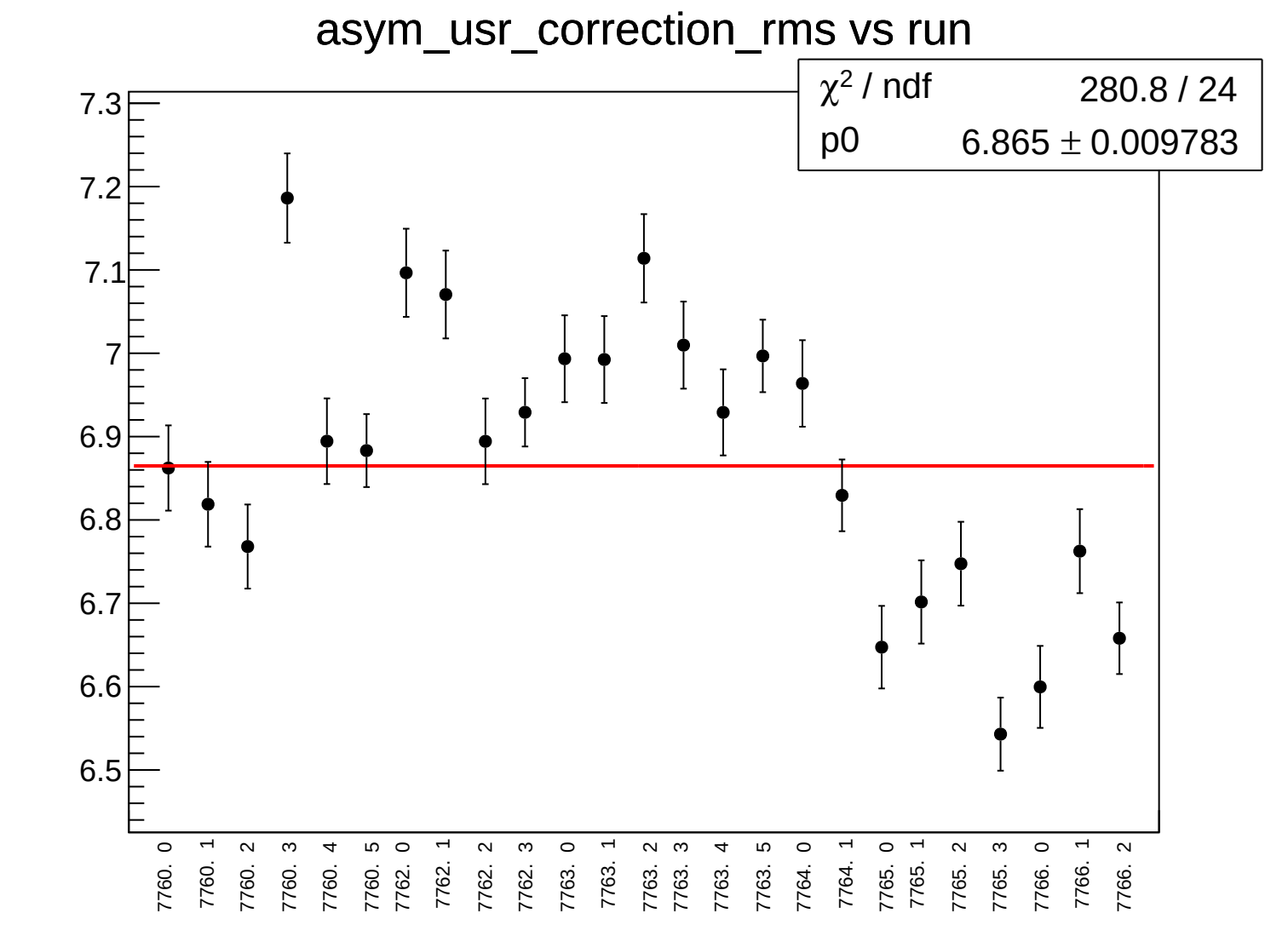

dit_asym_usr_mean vs run
χ² / ndf 30.97 / 23
p0 −946 ± 2395
×10³
800
600
400
200
0
−200
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 24
Mean 14.14
Std Dev 6.319
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

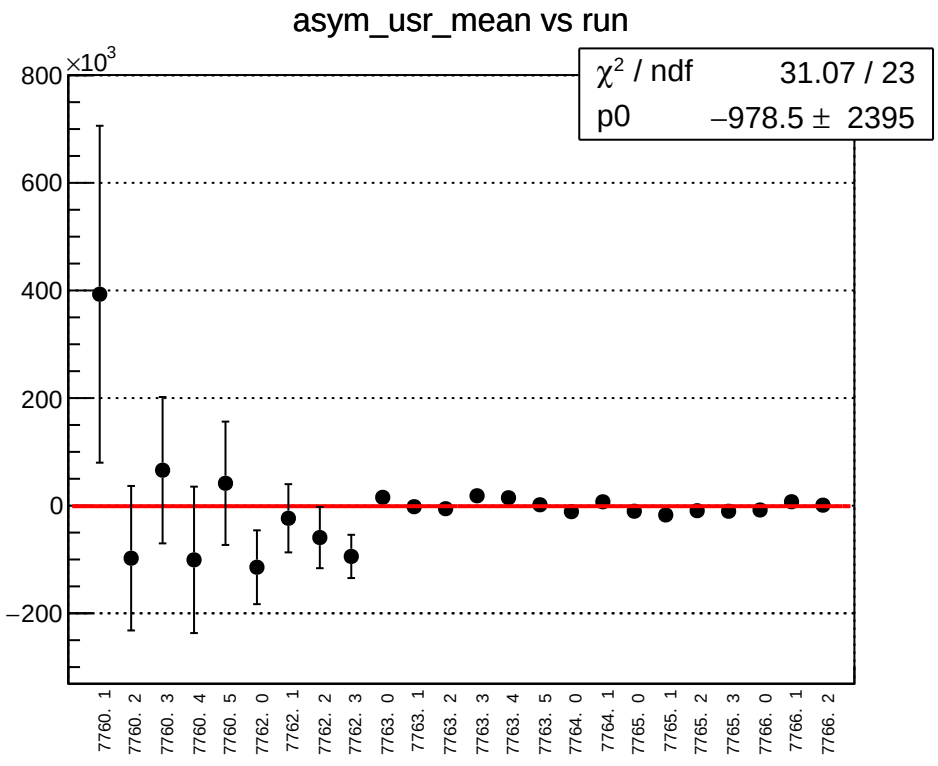

pull1D
Entries 24
Mean −0.1601
Std Dev 1.125
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

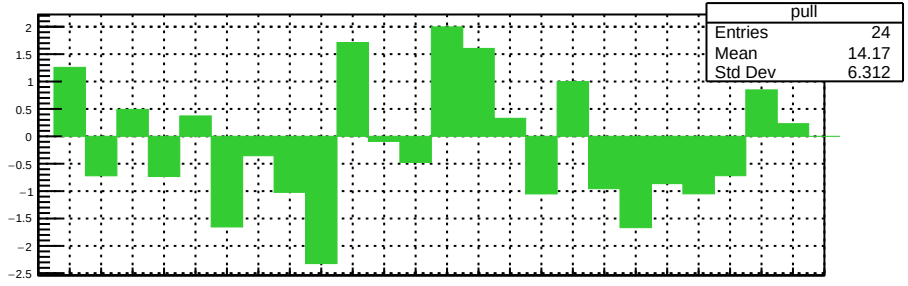

dit_asym_usr_rms vs run
×10^3
1000
800
600
400
200
χ² / ndf 1.588e+05 / 24
p0 978.3 ± 1.693
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

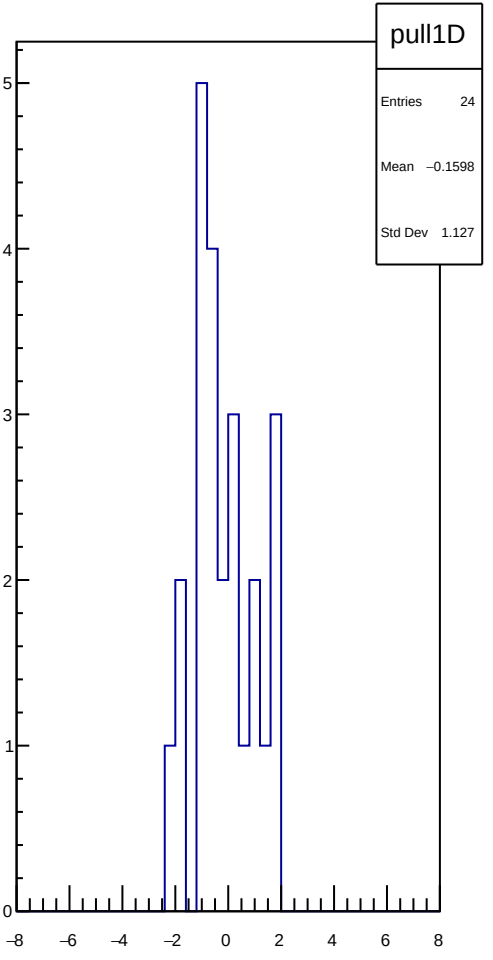

asym_usr_correction_mean vs run
χ² / ndf 26.62 / 24
p0 15.7 ± 13.84
200
150
100
50
0
−50
−100
−150
−200
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −41.56
Std Dev 52.89
1.5
1
0.5
0
−0.5
−1
−1.5
−2

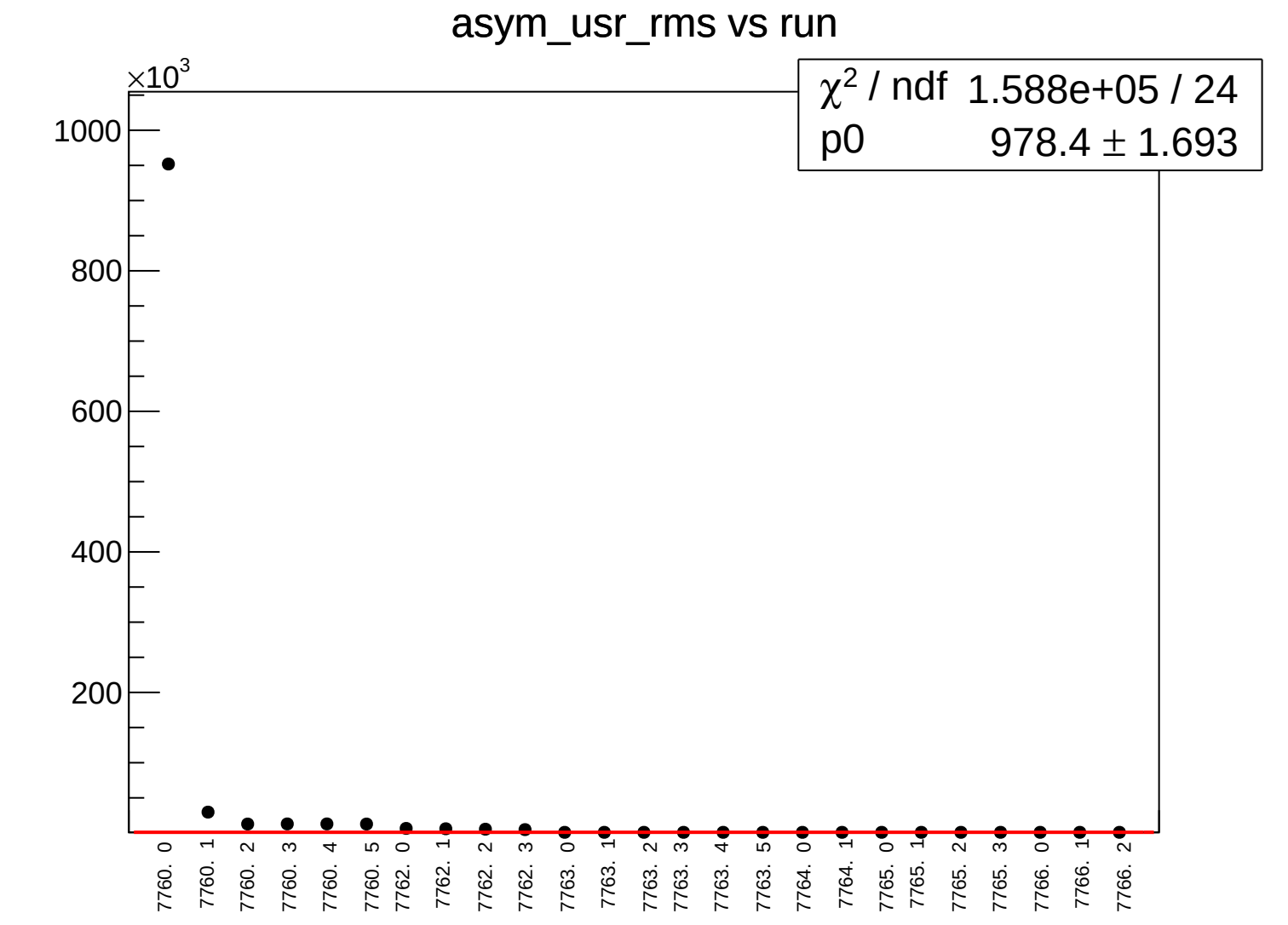

pull1D
Entries 25
Mean −0.05503
Std Dev 1.031
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

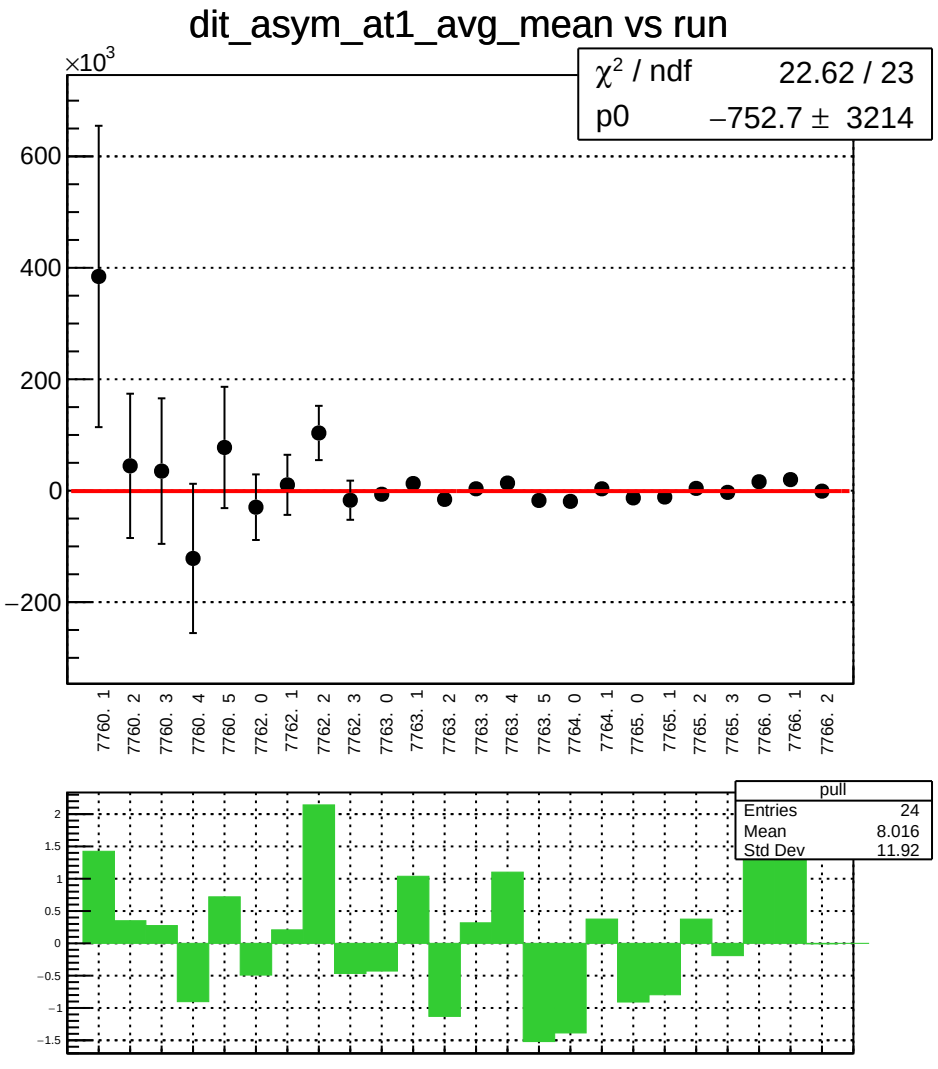

asym_usr_correction_rms vs run
χ^2 / ndf 280.8 / 24
p0 6.865 ± 0.009783
7.3
7.2
7.1
7
6.9
6.8
6.7
6.6
6.5
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

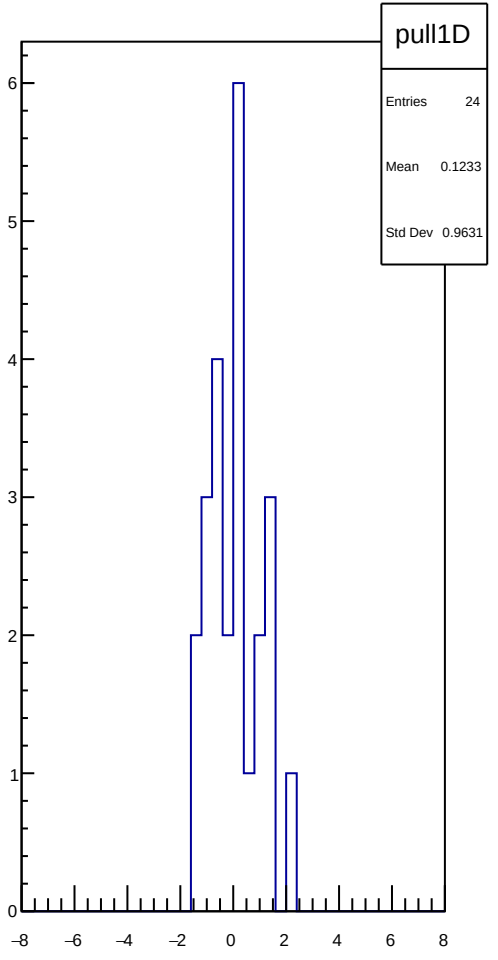

asym_usr_mean vs run
χ² / ndf 31.07 / 23
p0 −978.5 ± 2395
×10³
800
600
400
200
0
−200
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

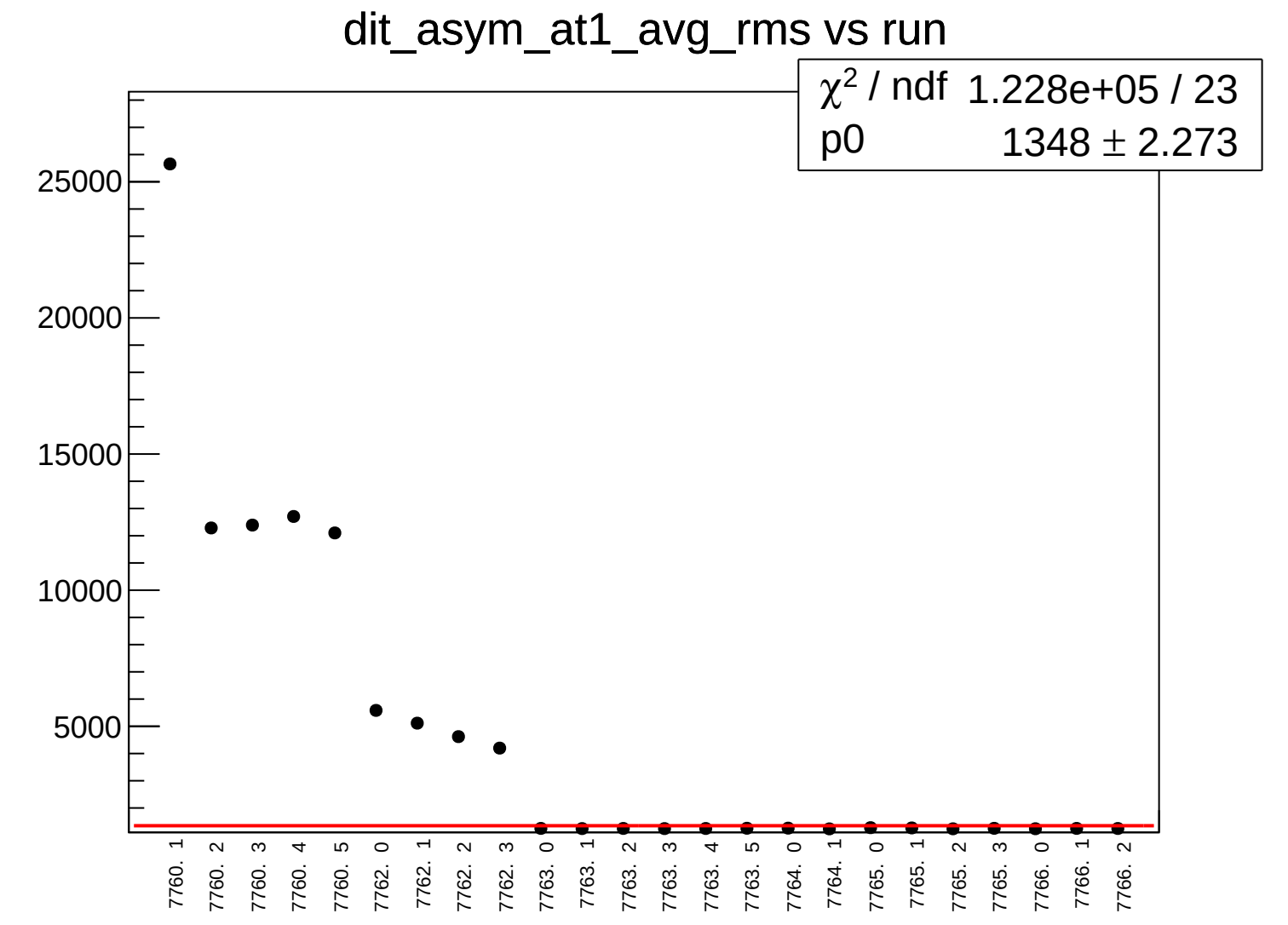

pull
Entries 24
Mean 14.17
Std Dev 6.312
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

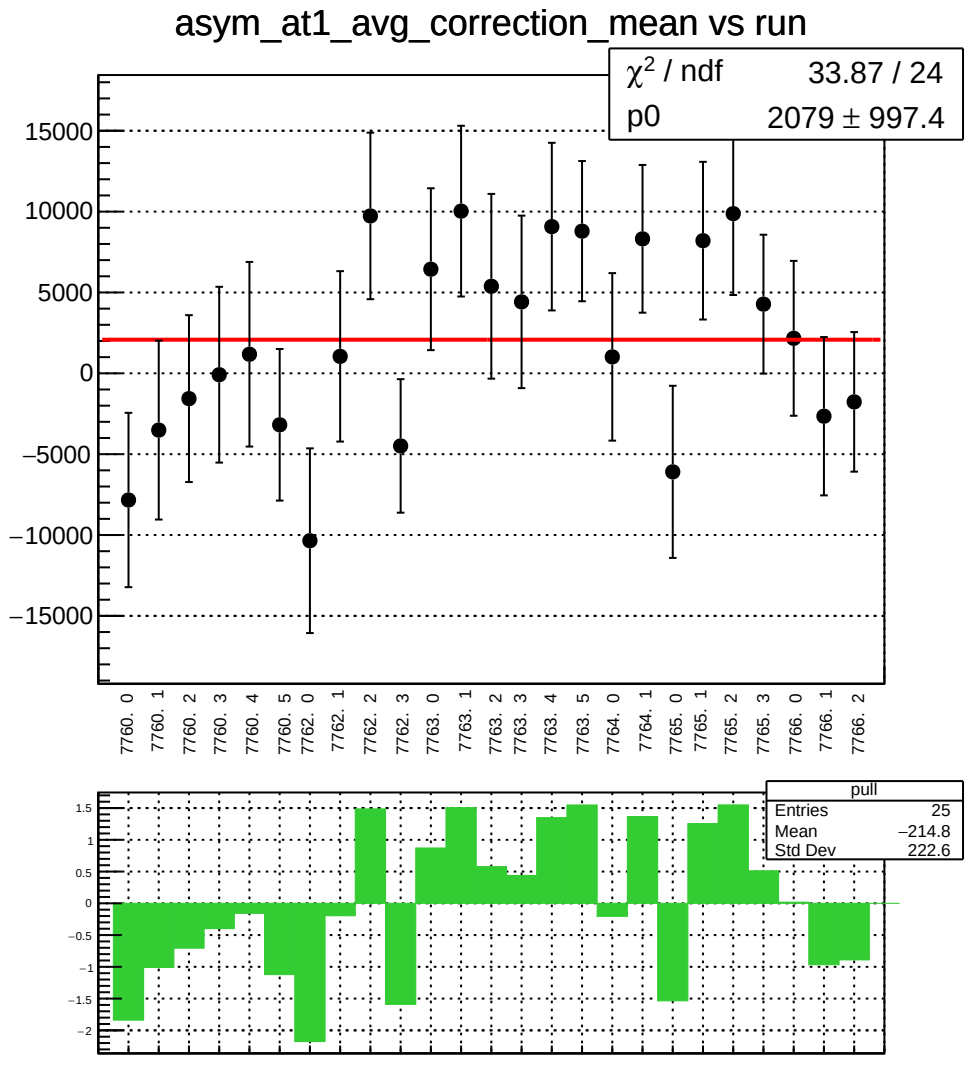

pull1D
Entries 24
Mean −0.1598
Std Dev 1.127
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

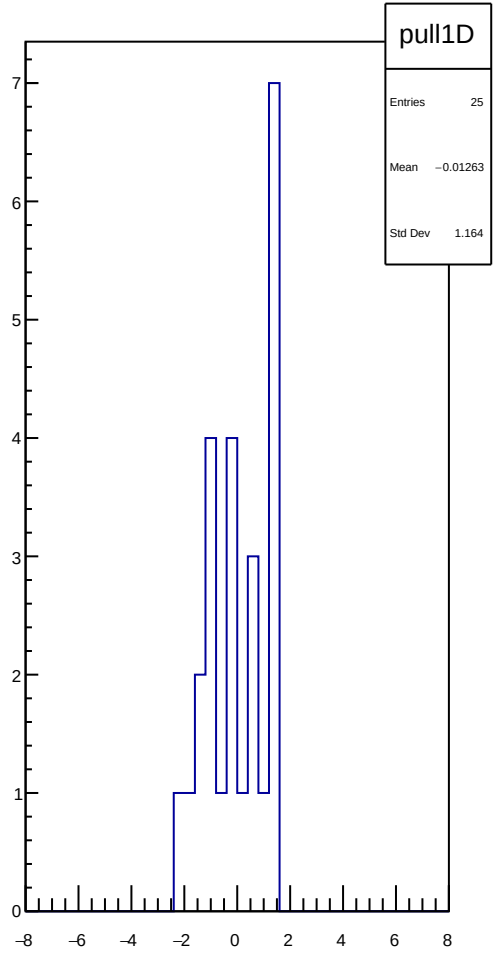

asym_usr_rms vs run
×10^3
1000
800
600
400
200
χ² / ndf 1.588e+05 / 24
p0 978.4 ± 1.693
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

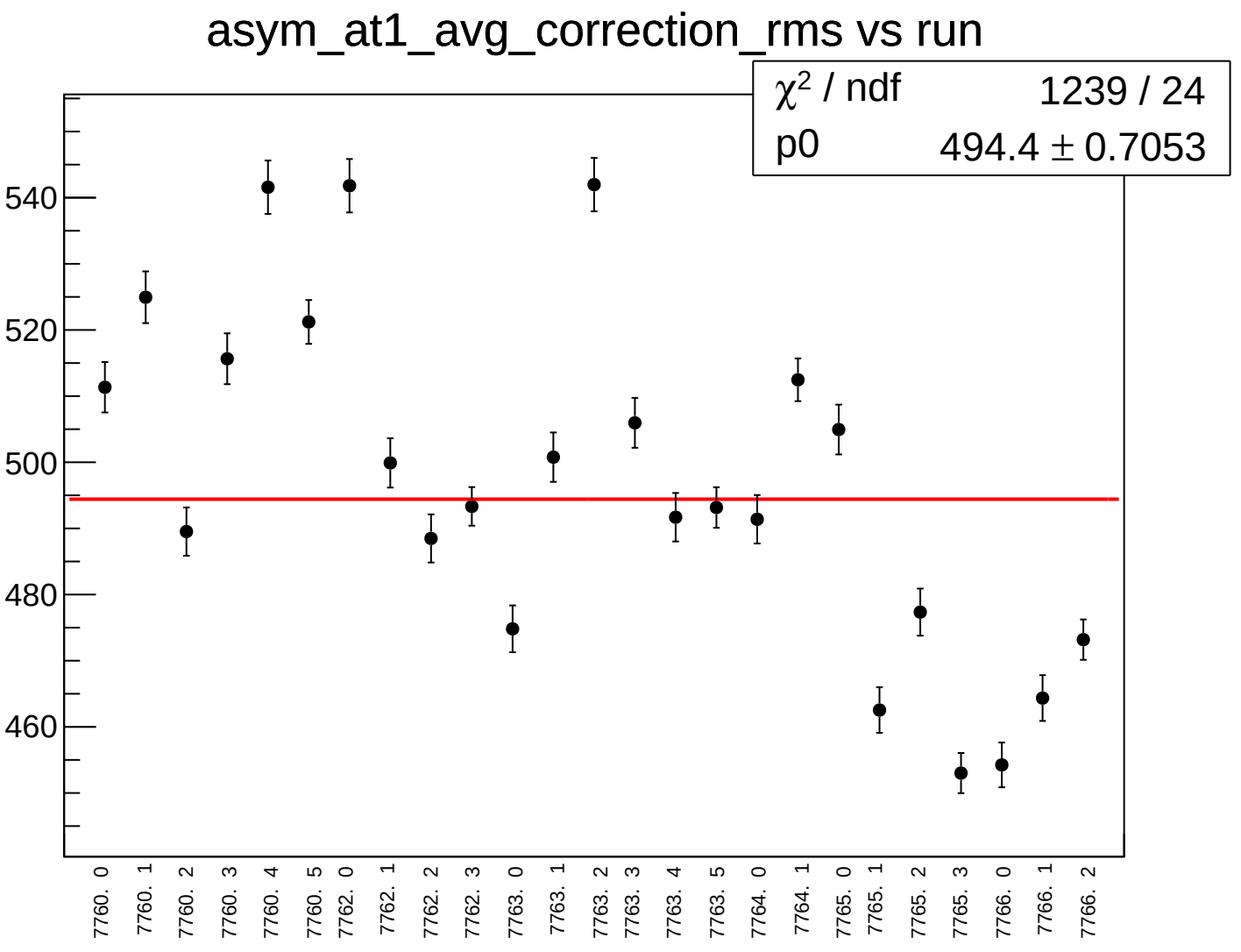

dit_asym_at1_avg_mean vs run
×10^3
χ² / ndf 22.62 / 23
p0 −752.7 ± 3214
600
400
200
0
−200
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 24
Mean 8.016
Std Dev 11.92
2
1.5
1
0.5
0
−0.5
−1
−1.5

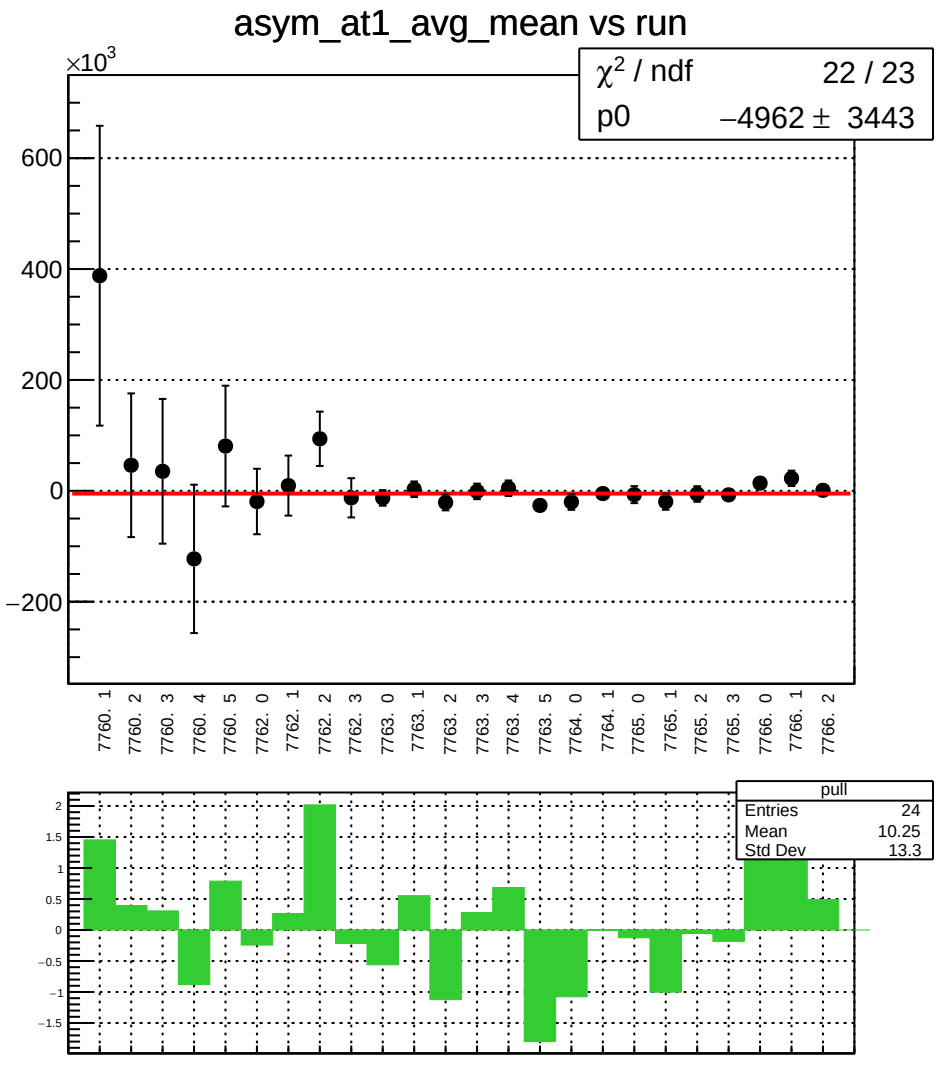

pull1D
Entries 24
Mean 0.1233
Std Dev 0.9631
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

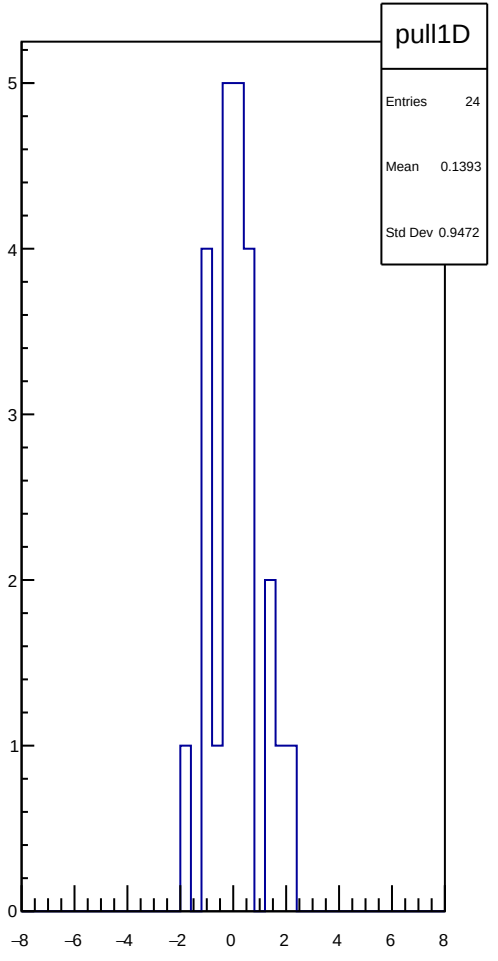

dit_asym_at1_avg_rms vs run
χ² / ndf 1.228e+05 / 23
p0 1348 ± 2.273
25000
20000
15000
10000
5000
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

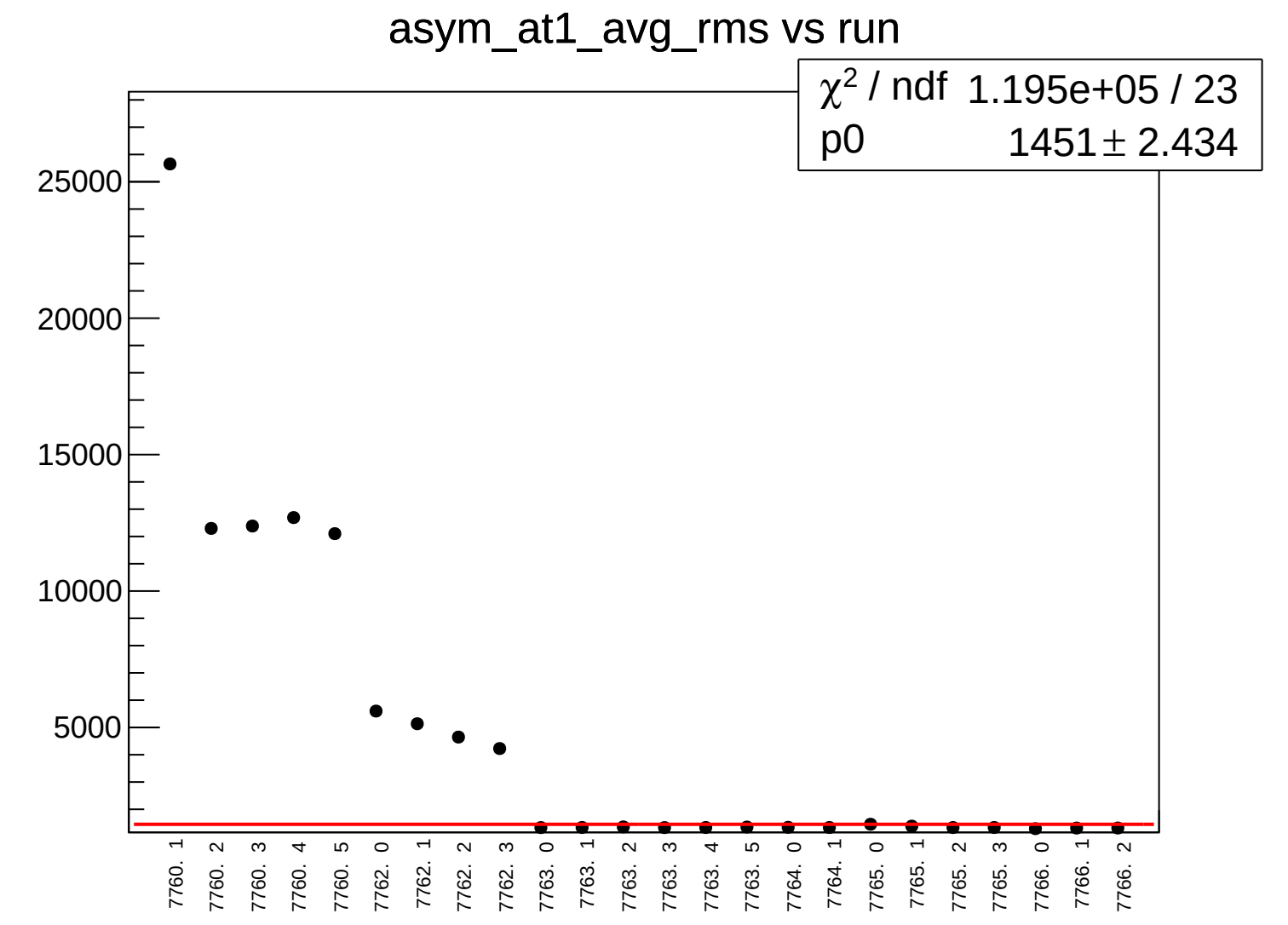

asym_at1_avg_correction_mean vs run
χ² / ndf 33.87 / 24
p0 2079 ± 997.4
15000
10000
5000
0
−5000
−10000
−15000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −214.8
Std Dev 222.6
1.5
1
0.5
0
−0.5
−1
−1.5
−2

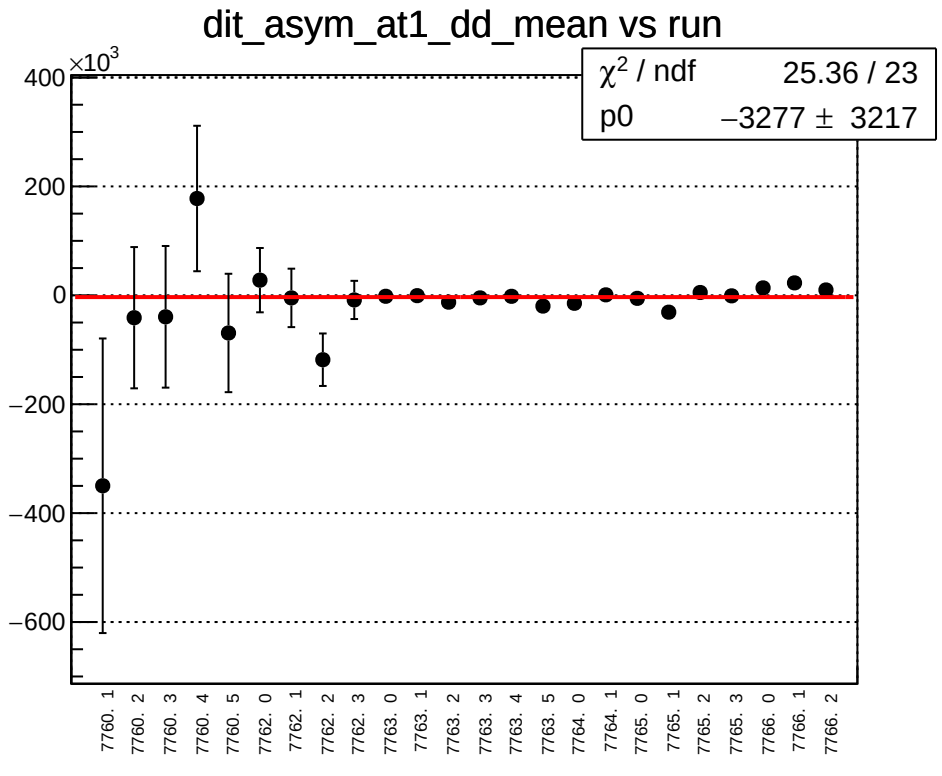

pull1D
Entries 25
Mean −0.01263
Std Dev 1.164
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

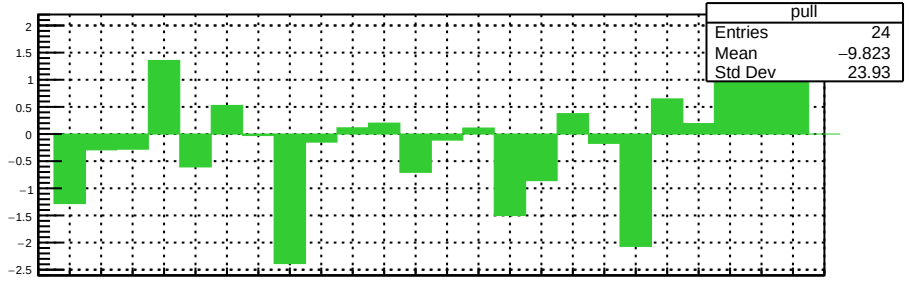

asym_at1_avg_correction_rms vs run
χ² / ndf 1239 / 24
p0 494.4 ± 0.7053
540
520
500
480
460
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

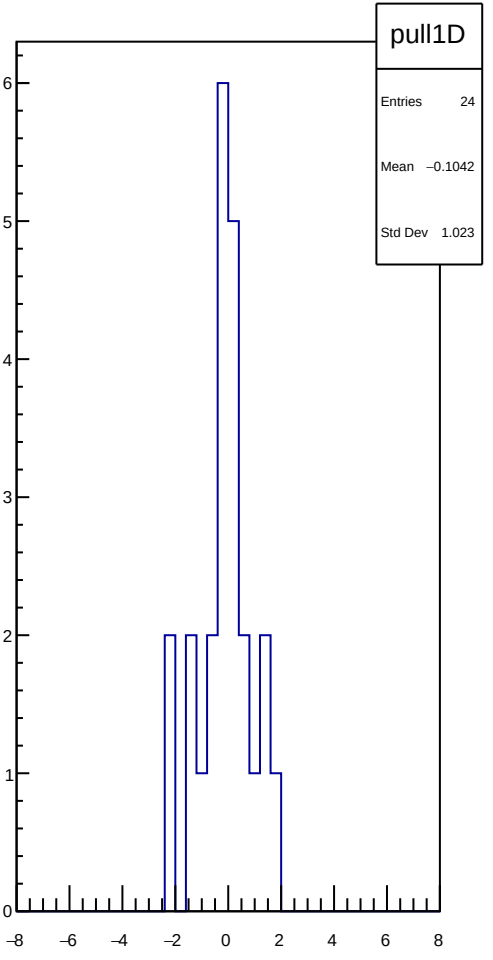

asym_at1_avg_mean vs run
×10^3
χ² / ndf 22 / 23
p0 −4962 ± 3443
600
400
200
0
−200
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 24
Mean 10.25
Std Dev 13.3
2
1.5
1
0.5
0
−0.5
−1
−1.5

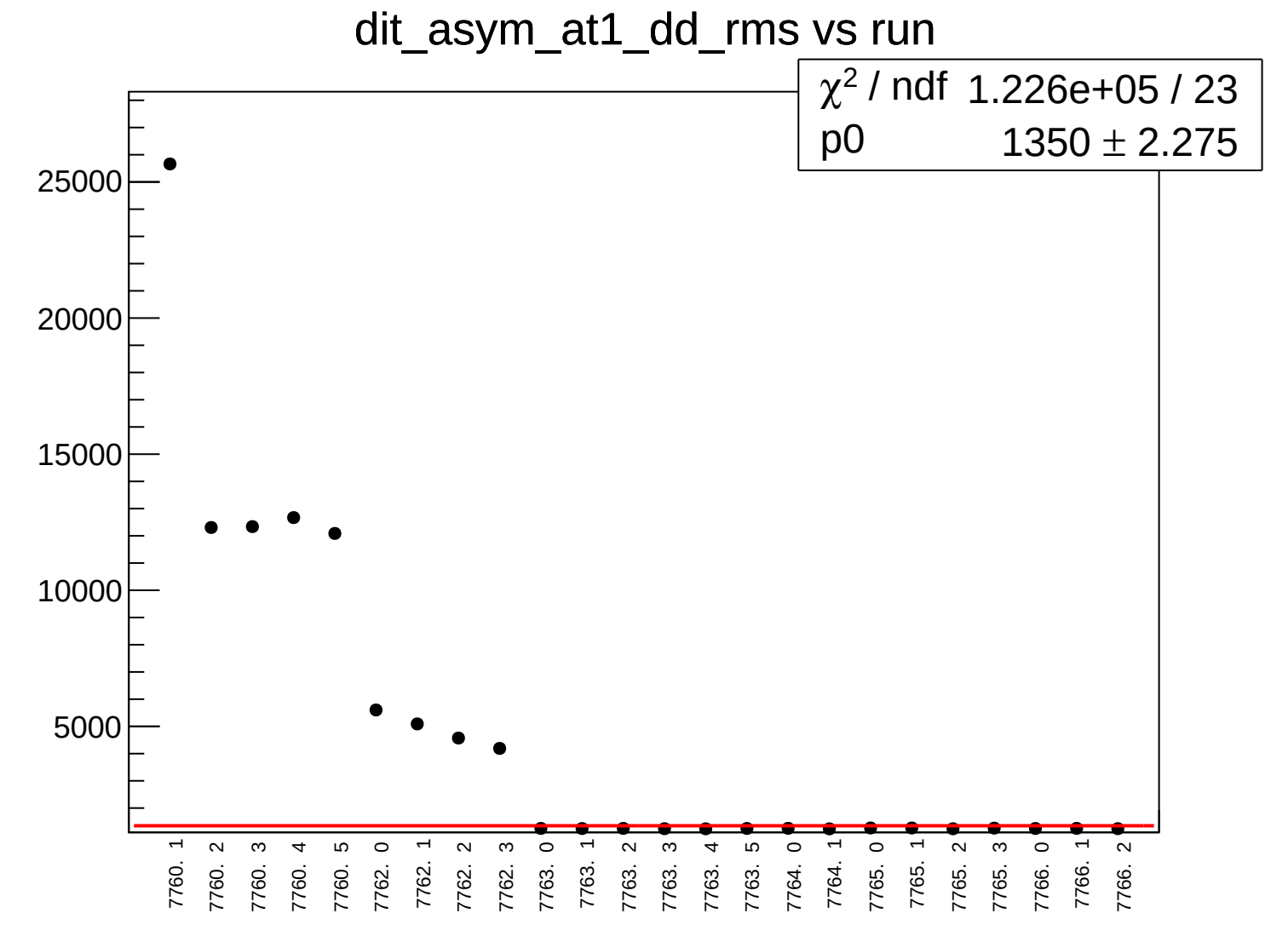

pull1D
Entries 24
Mean 0.1393
Std Dev 0.9472
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_at1_avg_rms vs run
χ² / ndf 1.195e+05 / 23
p0 1451 ± 2.434
25000
20000
15000
10000
5000
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2


dit_asym_at1_dd_mean vs run
χ² / ndf 25.36 / 23
p0 −3277 ± 3217
×10³
400
200
0
−200
−400
−600
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2


pull
Entries 24
Mean −9.823
Std Dev 23.93
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 24
Mean −0.1042
Std Dev 1.023
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 1.226e+05 / 23
p0 1350 ± 2.275
25000
20000
15000
10000
5000
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
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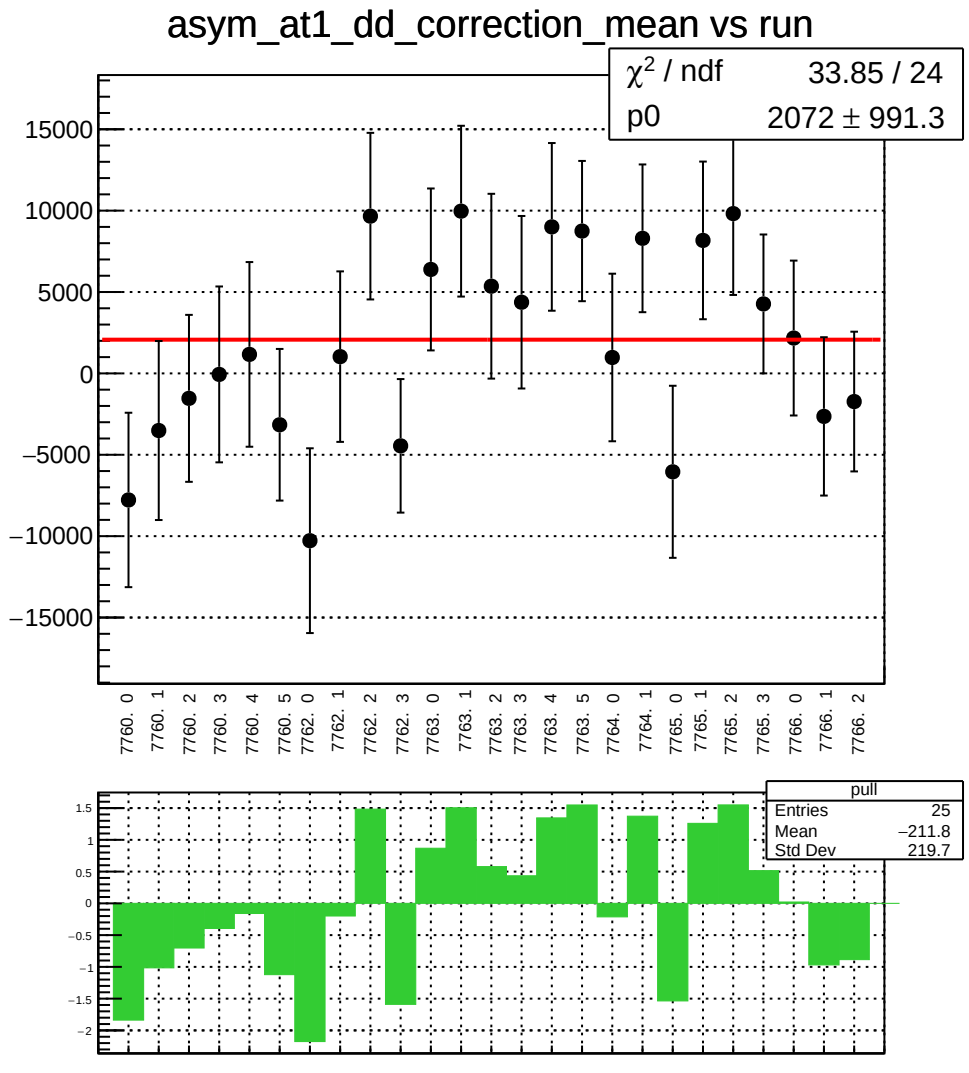
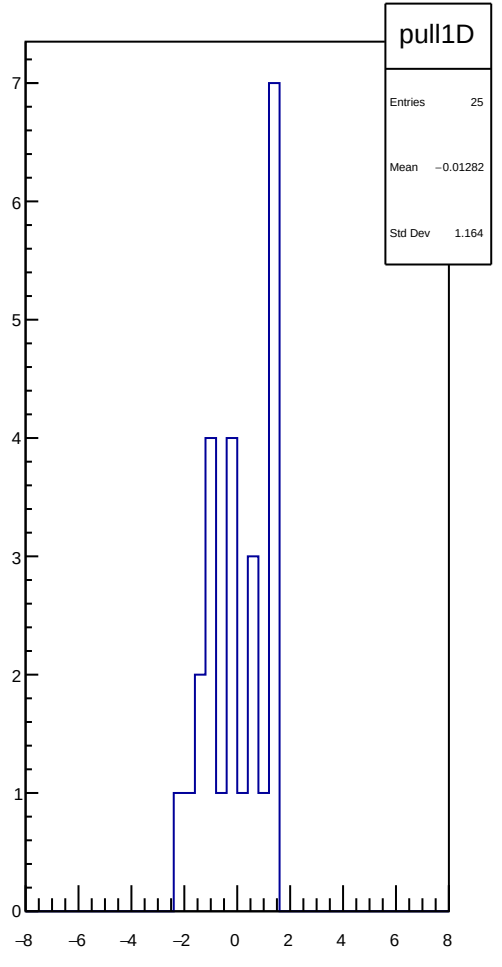
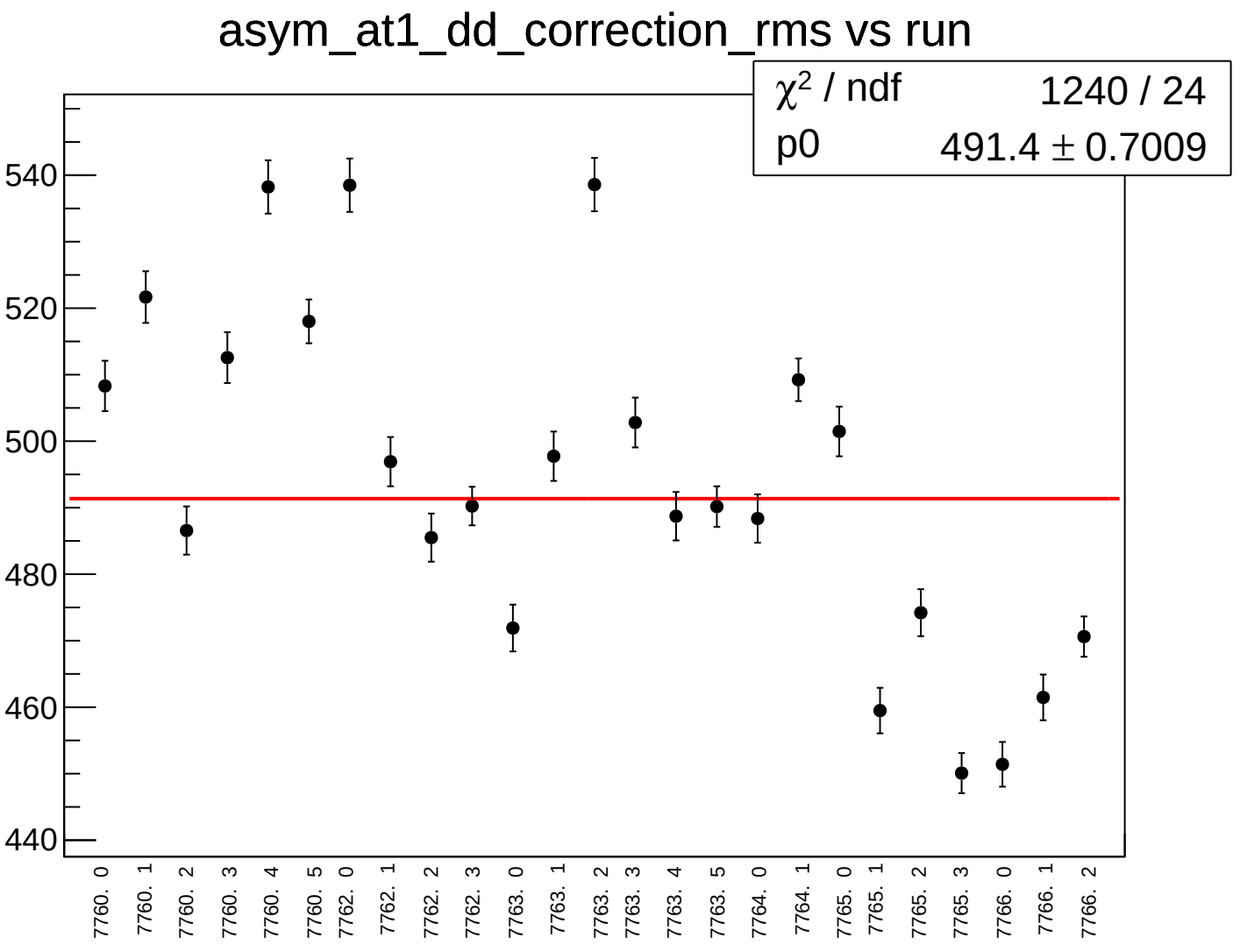
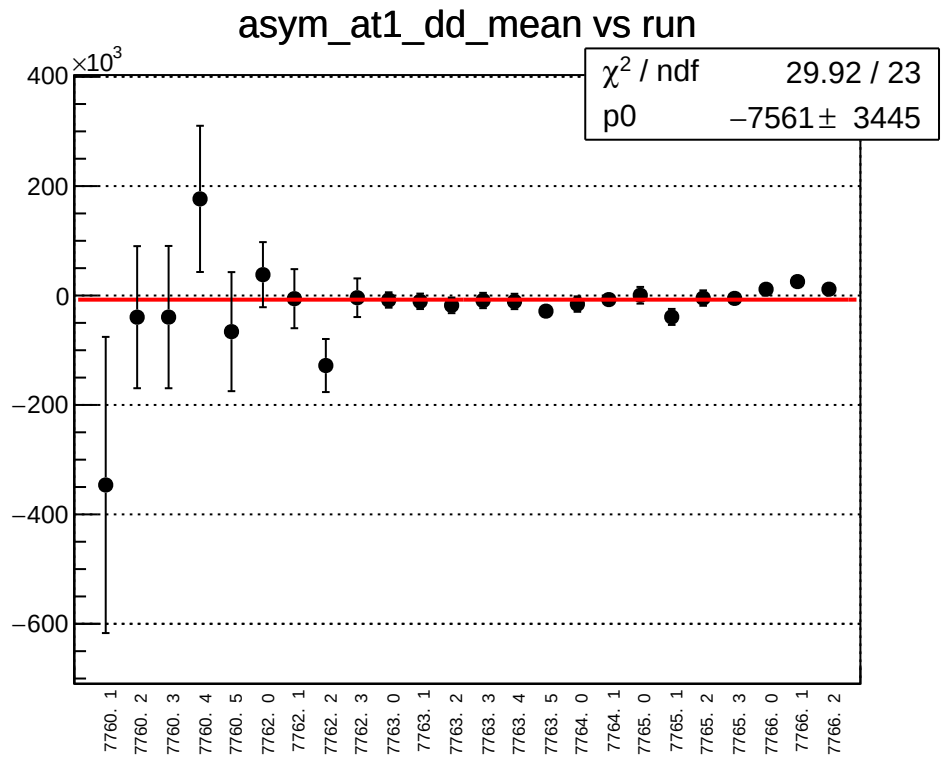
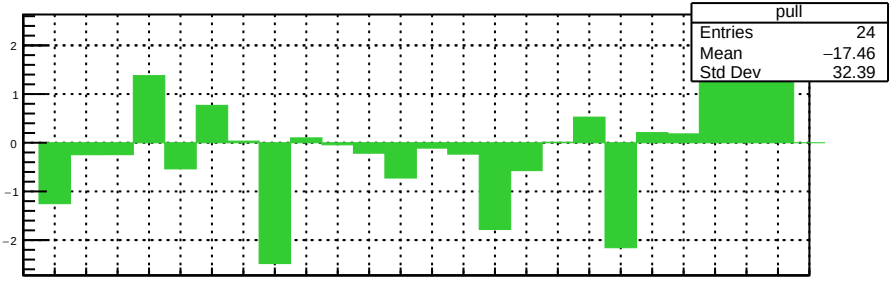
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

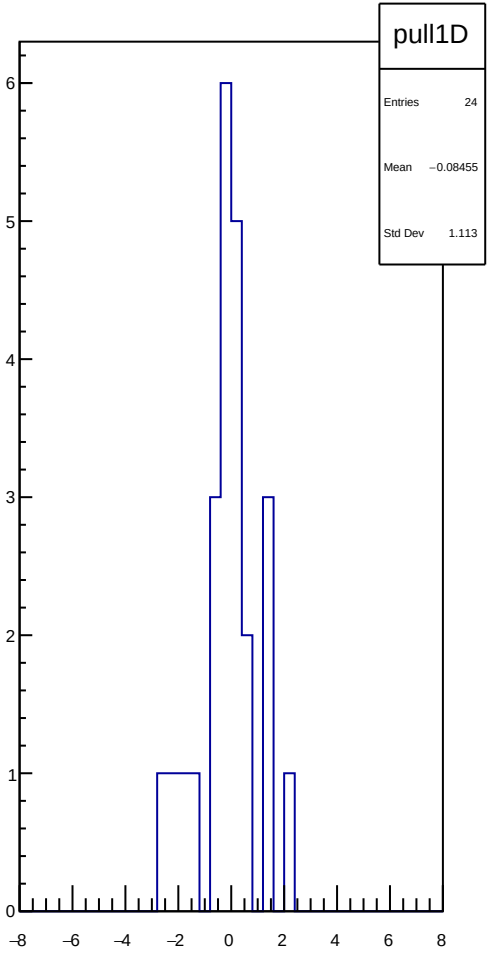

asym_at1_dd_correction_mean vs run
χ² / ndf 33.85 / 24
p0 2072 ± 991.3
15000
10000
5000
0
−5000
−10000
−15000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −211.8
Std Dev 219.7
1.5
1
0.5
0
−0.5
−1
−1.5
−2

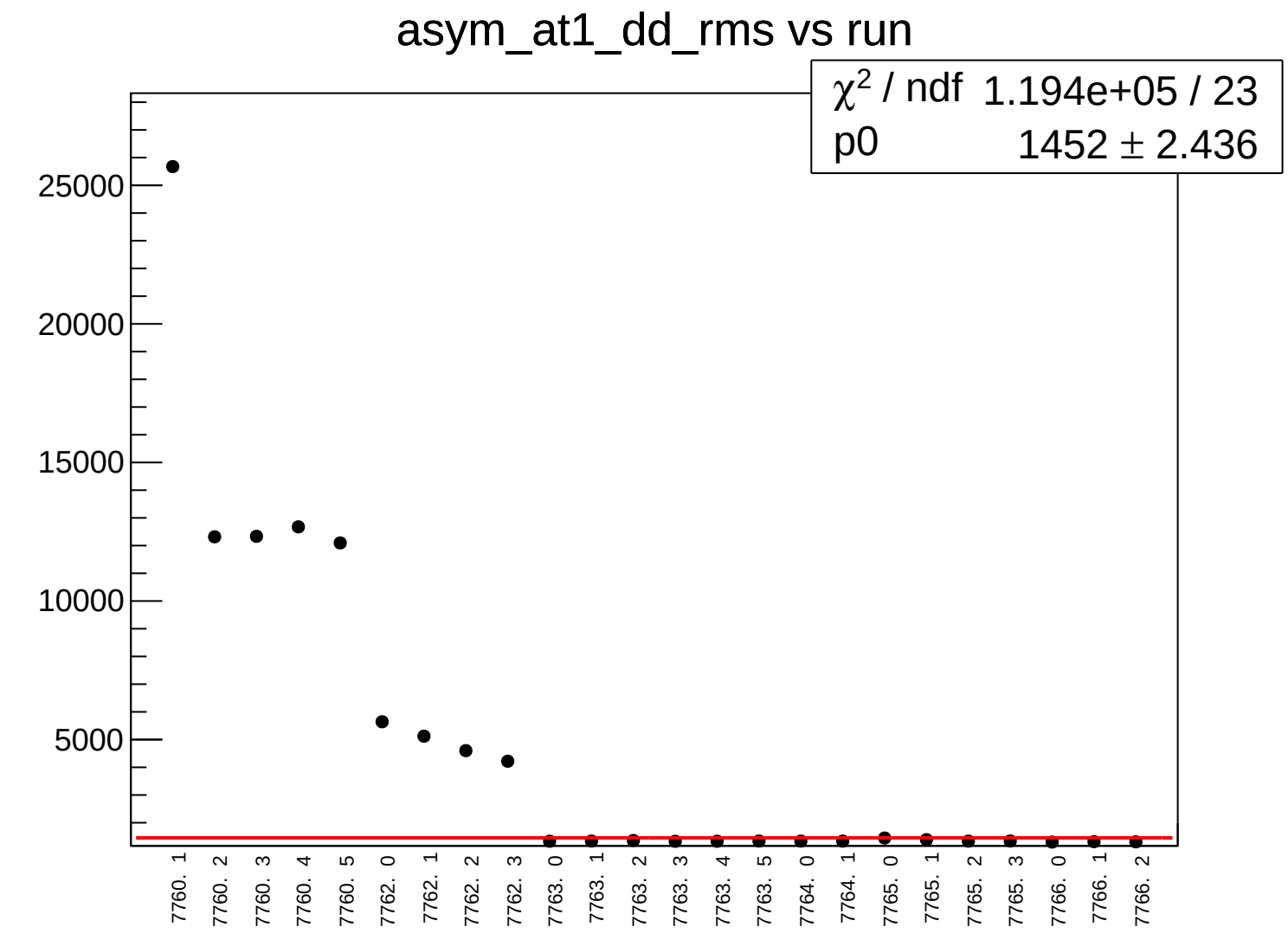

pull1D
Entries 25
Mean −0.01282
Std Dev 1.164
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

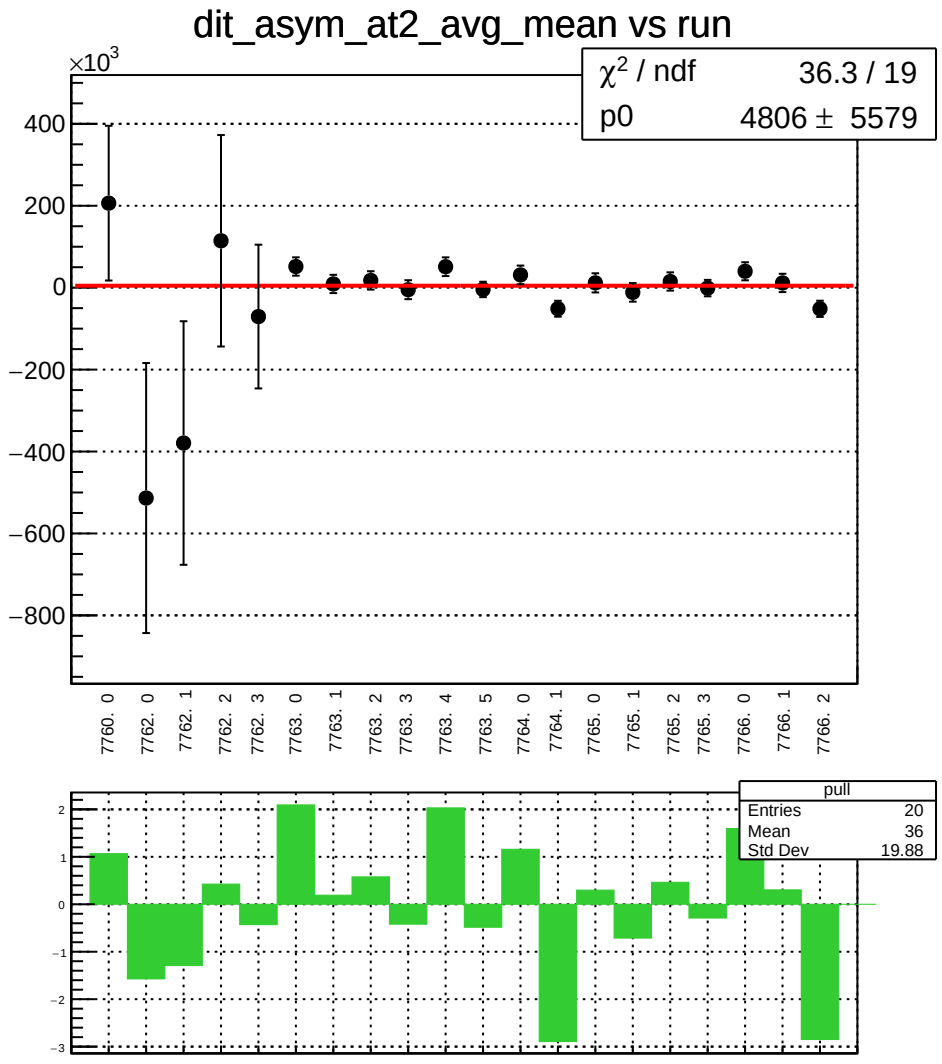

asym_at1_dd_correction_rms vs run
χ² / ndf 1240 / 24
p0 491.4 ± 0.7009
540
520
500
480
460
440
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

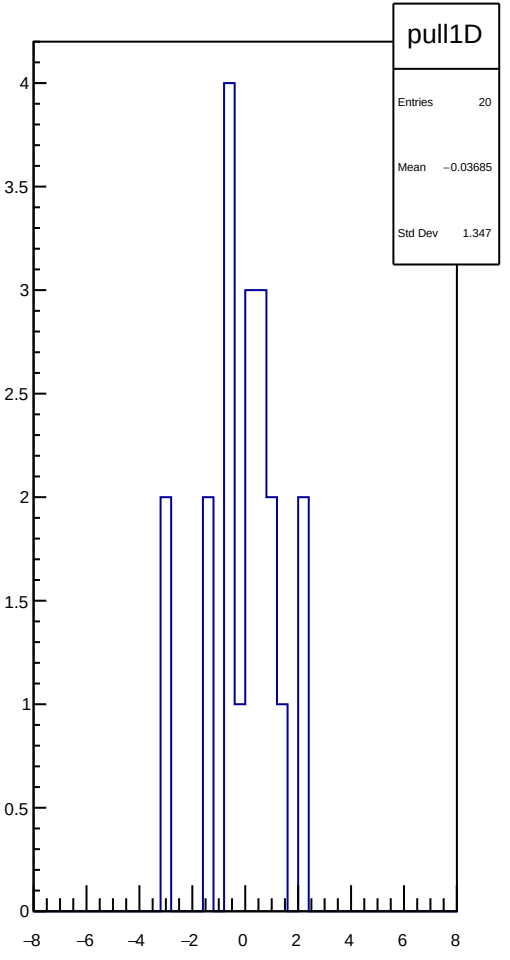

asym_at1_dd_mean vs run
×10^3
χ² / ndf 29.92 / 23
p0 −7561 ± 3445
400
200
0
−200
−400
−600
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

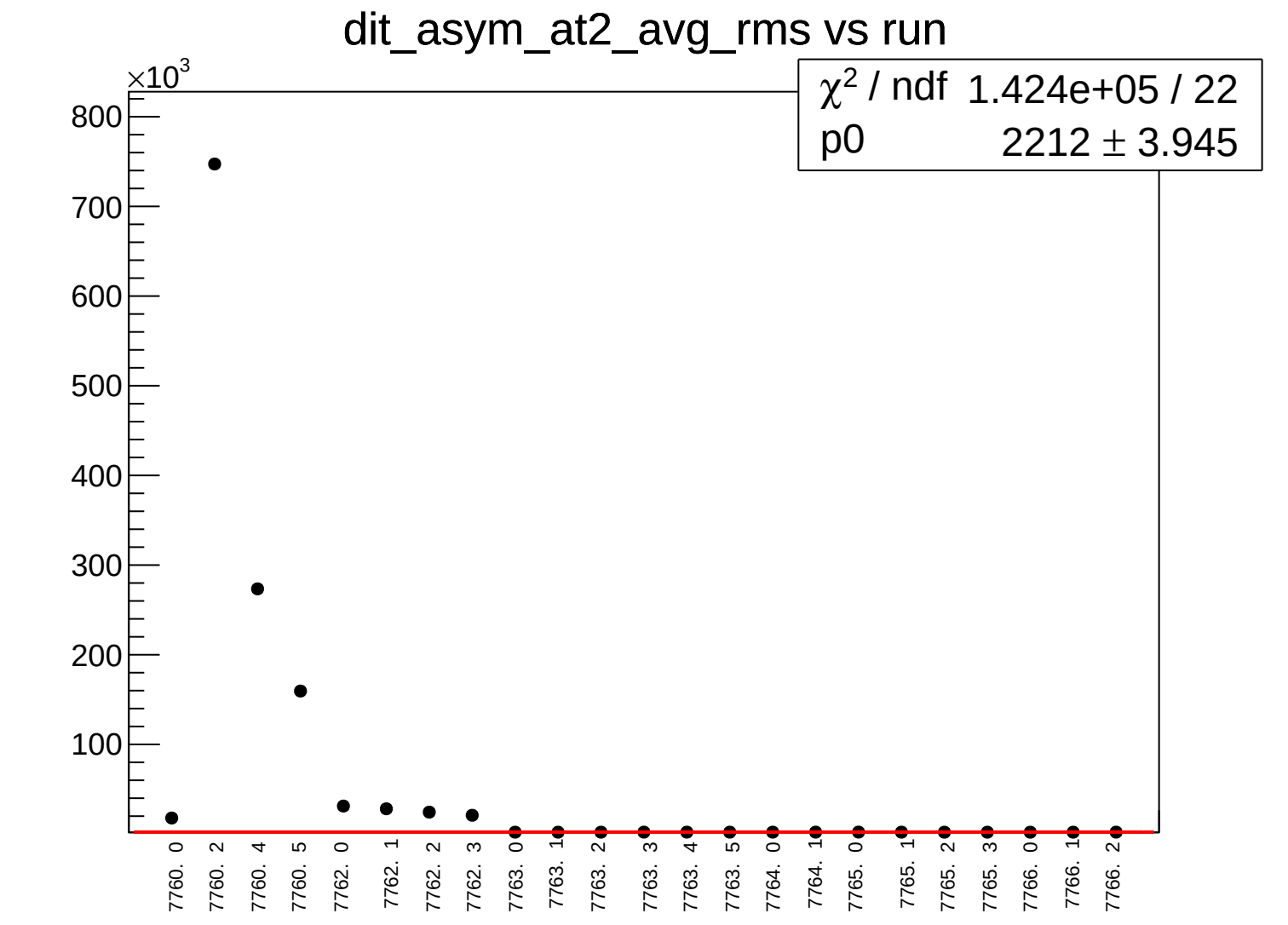

pull
Entries 24
Mean −17.46
Std Dev 32.39
2
1
0
−1
−2

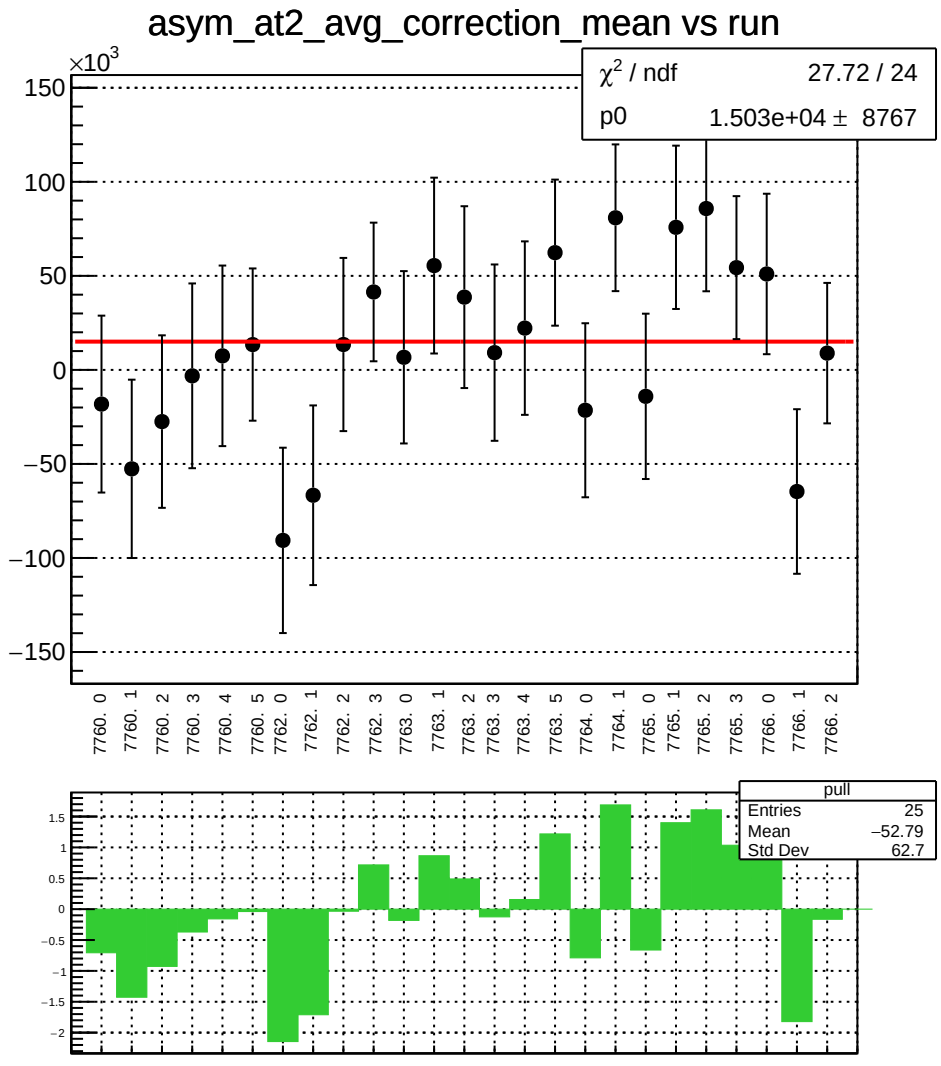

pull1D
Entries 24
Mean −0.08455
Std Dev 1.113
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

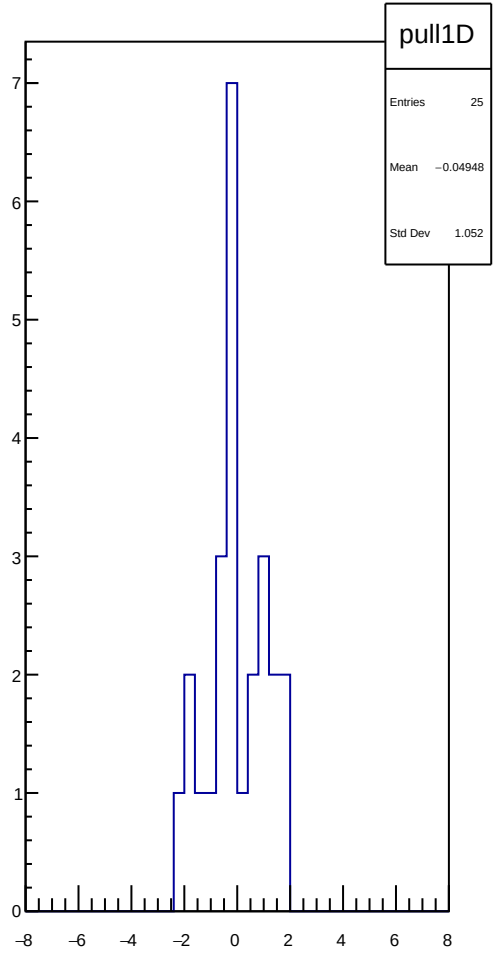

asym_at1_dd_rms vs run
χ² / ndf 1.194e+05 / 23
p0 1452 ± 2.436
25000
20000
15000
10000
5000
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

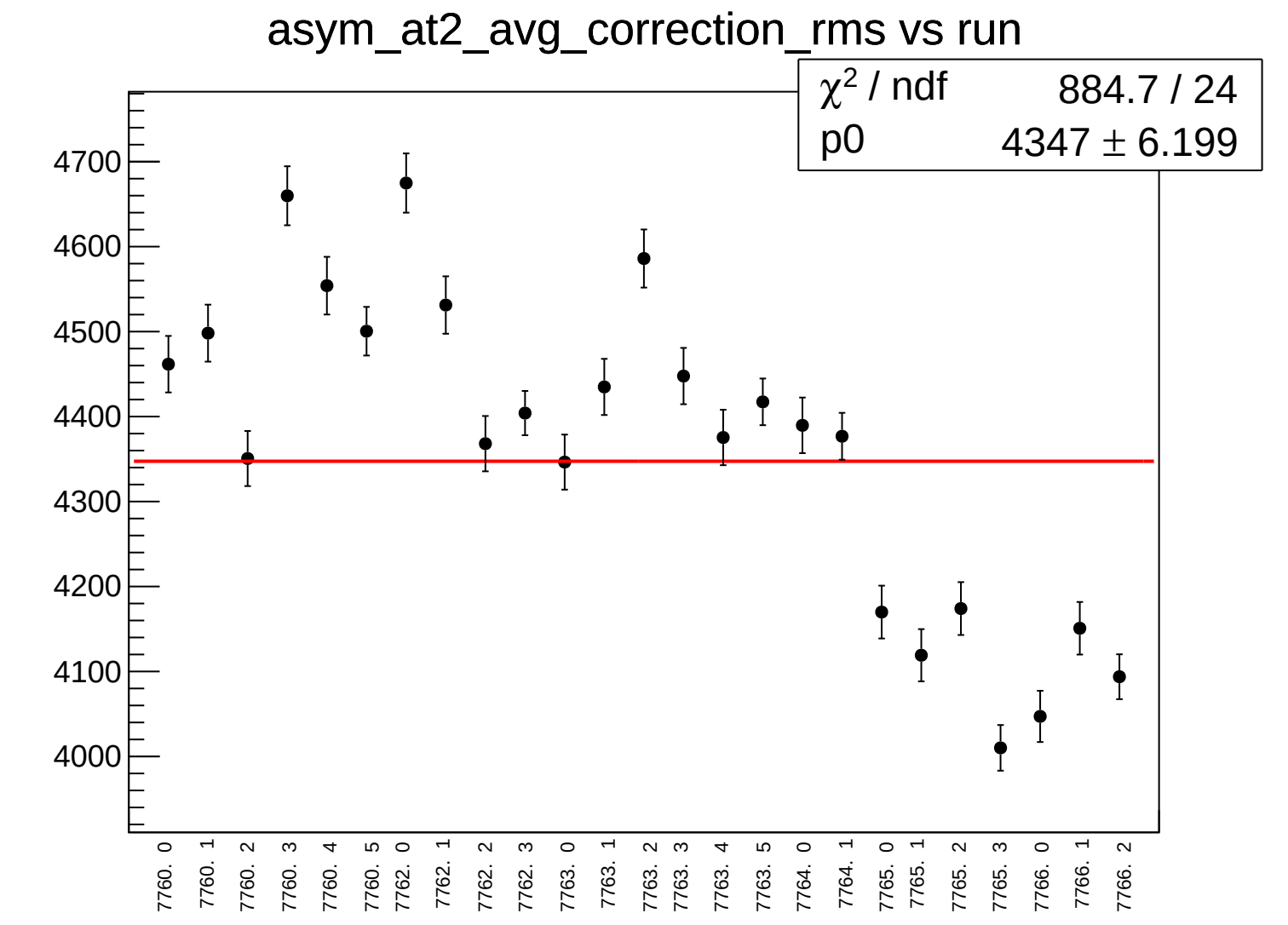

dit_asym_at2_avg_mean vs run
×10^3
χ² / ndf 36.3 / 19
p0 4806 ± 5579
400
200
0
−200
−400
−600
−800
7760. 0
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 20
Mean 36
Std Dev 19.88
2
1
0
−1
−2
−3

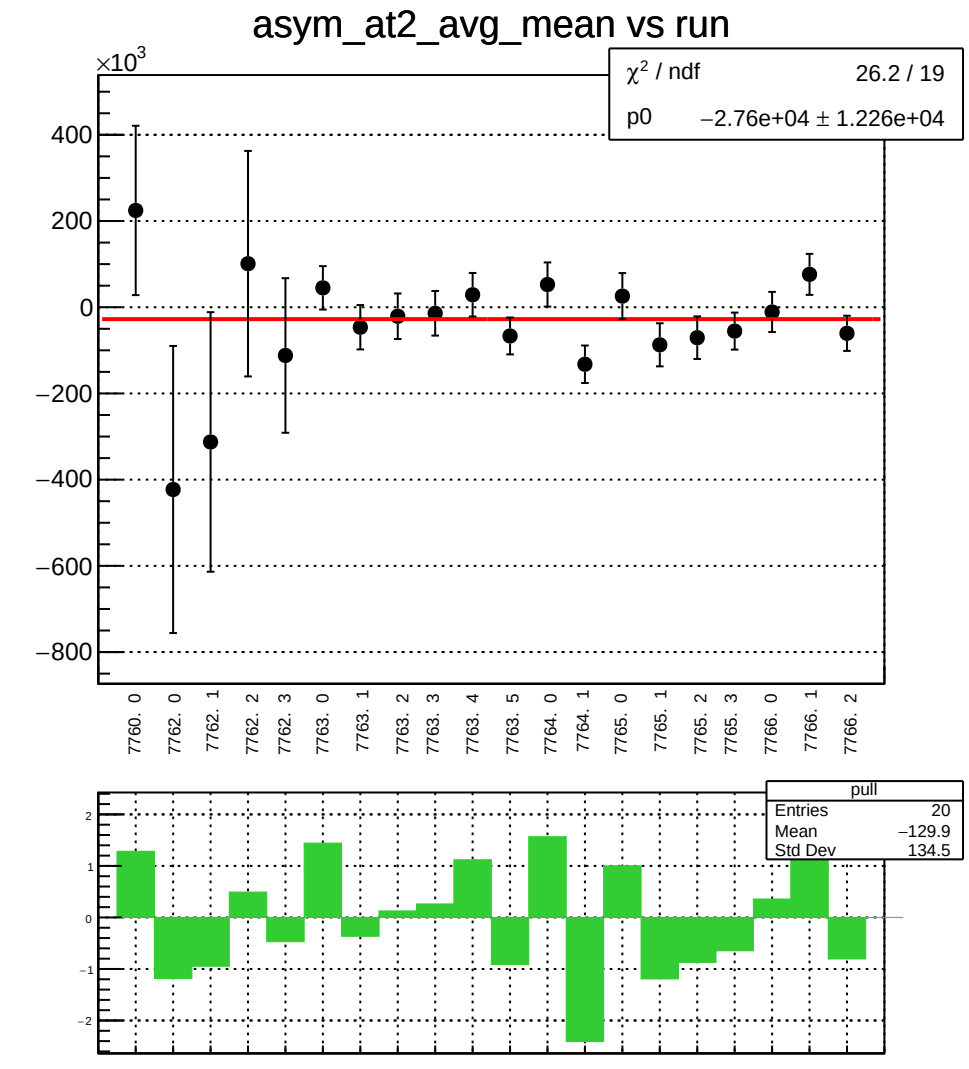

pull1D
Entries 20
Mean −0.03685
Std Dev 1.347
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

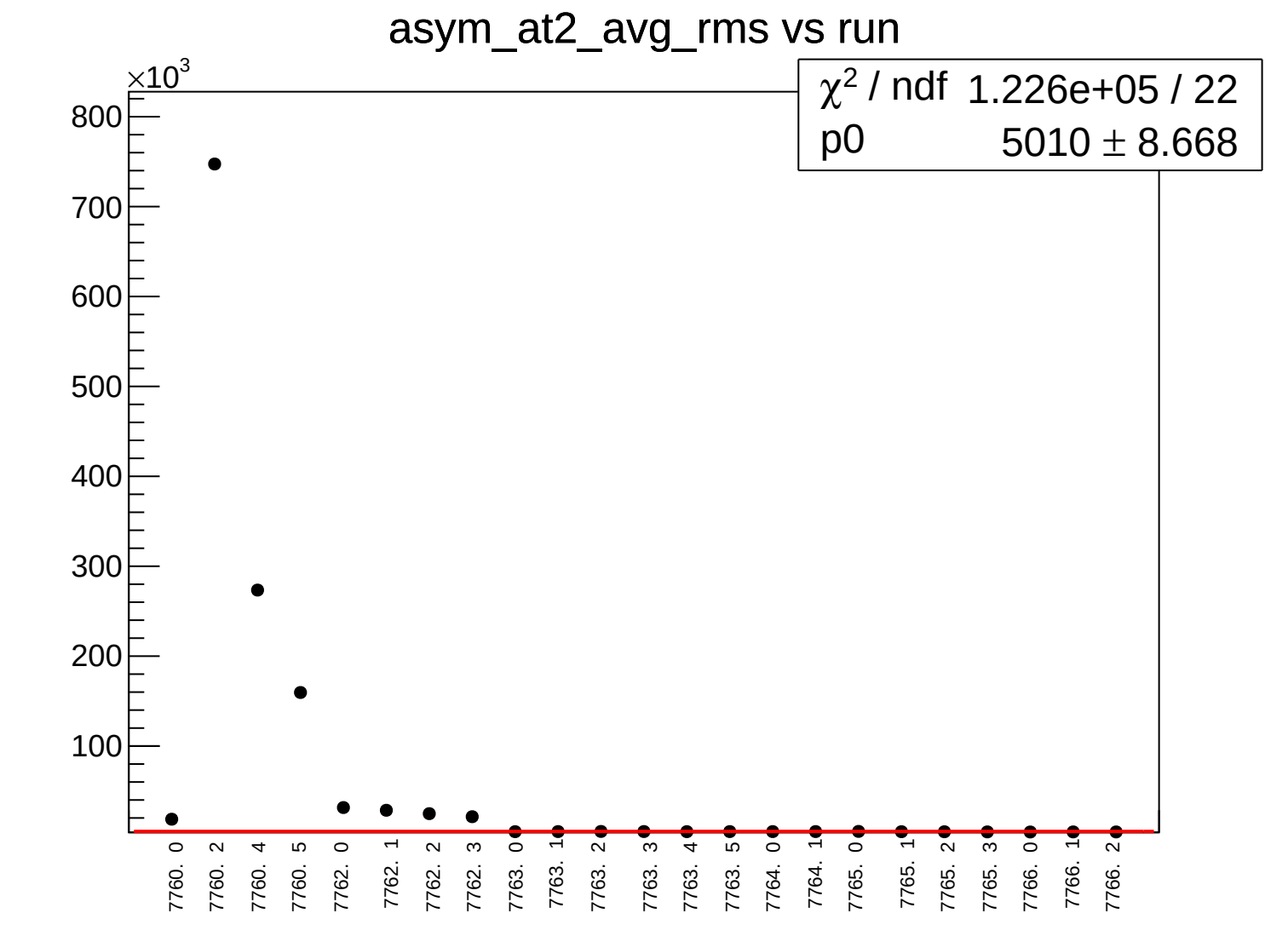

dit_asym_at2_avg_rms vs run
×10^3
800
700
600
500
400
300
200
100
χ² / ndf 1.424e+05 / 22
p0 2212 ± 3.945
7760. 0
7760. 2
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

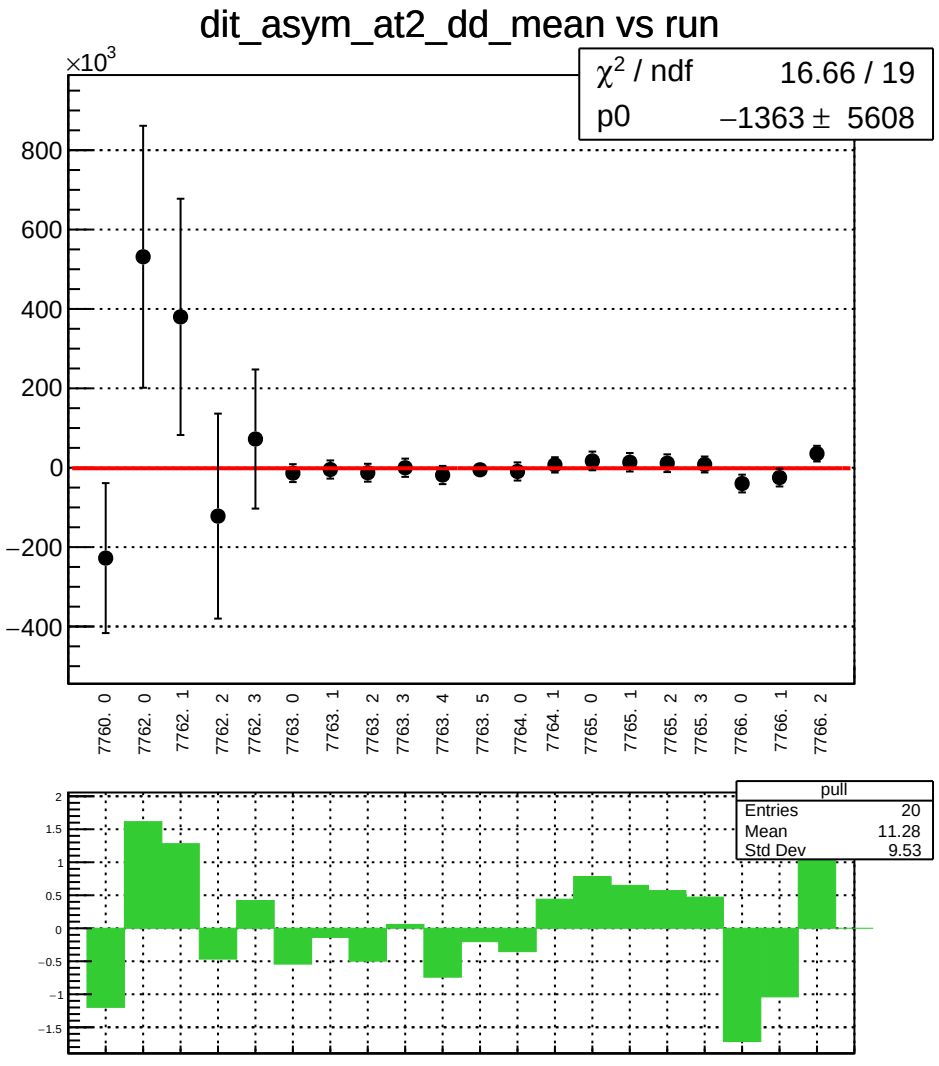

asym_at2_avg_correction_mean vs run
×10^3
χ² / ndf 27.72 / 24
p0 1.503e+04 ± 8767
150
100
50
0
−50
−100
−150
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −52.79
Std Dev 62.7
1.5
1
0.5
0
−0.5
−1
−1.5
−2

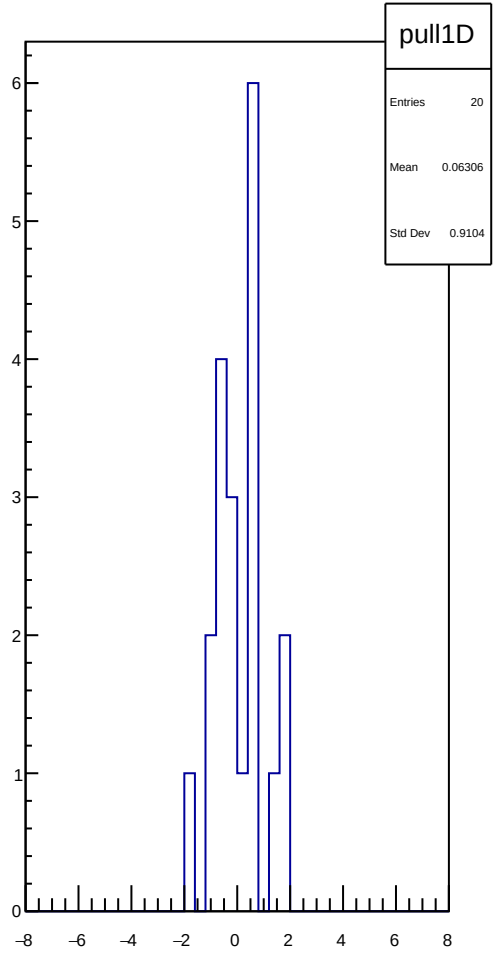

pull1D
Entries 25
Mean −0.04948
Std Dev 1.052
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

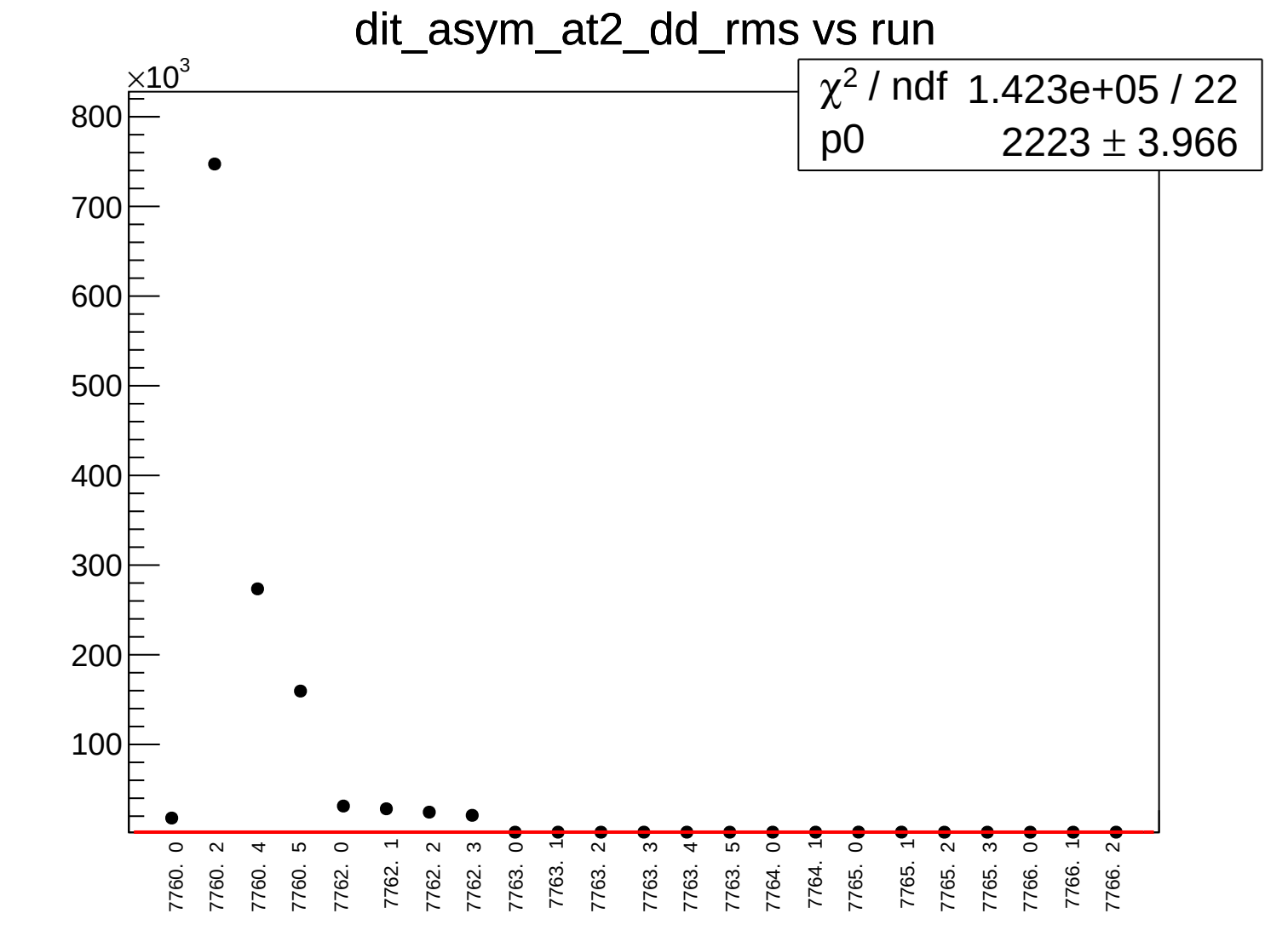

asym_at2_avg_correction_rms vs run
χ² / ndf 884.7 / 24
p0 4347 ± 6.199
4700
4600
4500
4400
4300
4200
4100
4000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

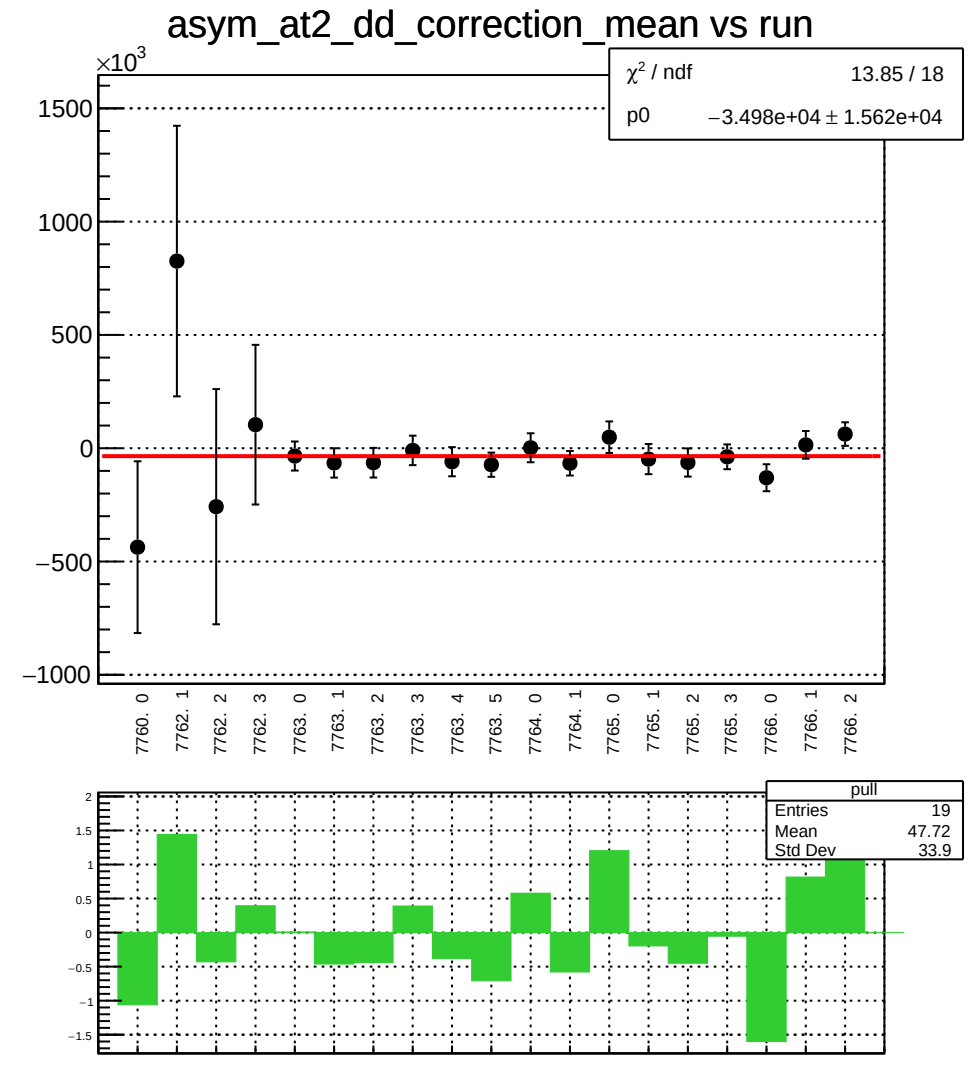

asym_at2_avg_mean vs run
×10^3
χ² / ndf 26.2 / 19
p0 −2.76e+04 ± 1.226e+04
400
200
0
−200
−400
−600
−800
7760. 0
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 20
Mean −129.9
Std Dev 134.5
2
1
0
−1
−2
pull1D
Entries 20
Mean 0.001251
Std Dev 1.145
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

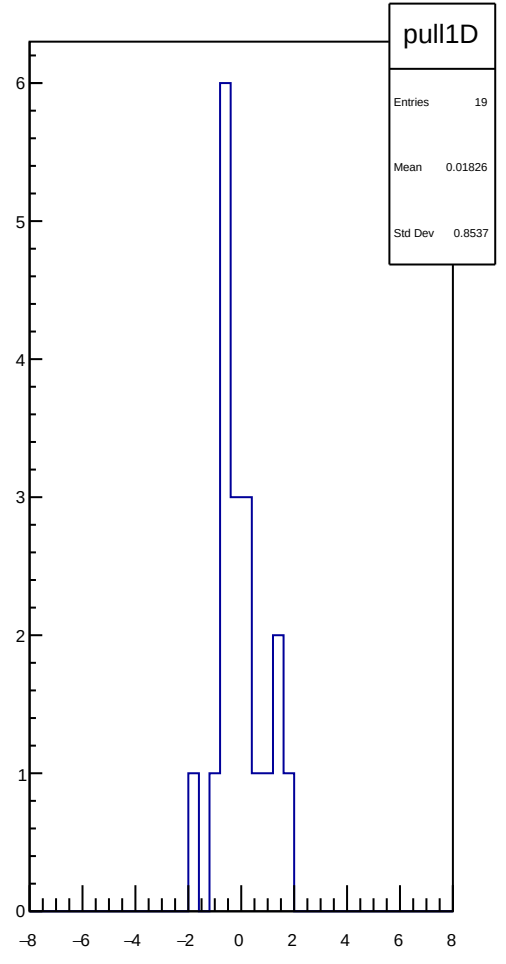

asym_at2_avg_rms vs run
×10^3
800
700
600
500
400
300
200
100
χ² / ndf 1.226e+05 / 22
p0 5010 ± 8.668
7760. 0
7760. 2
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

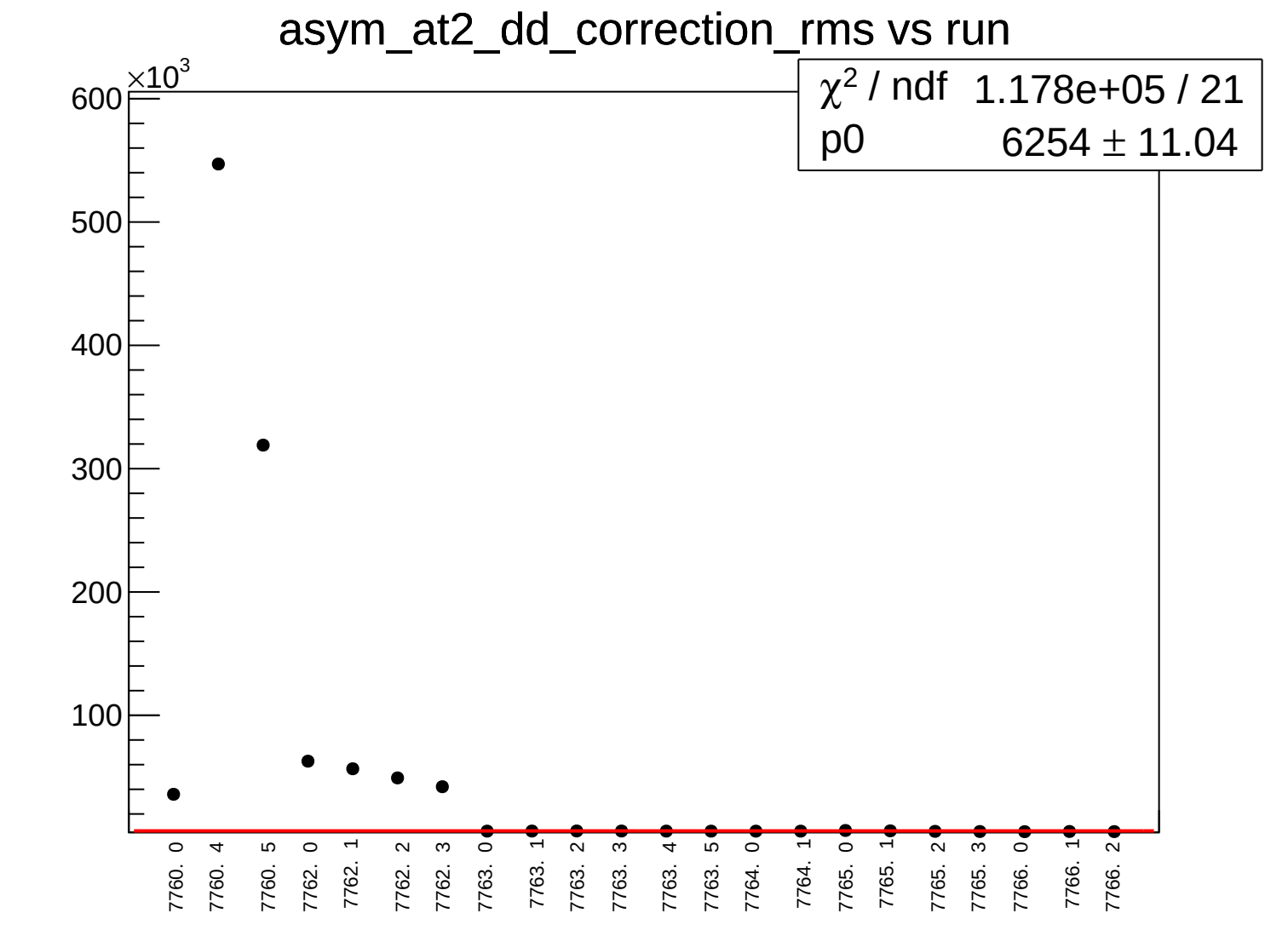

dit_asym_at2_dd_mean vs run
×10^3
χ² / ndf 16.66 / 19
p0 −1363 ± 5608
800
600
400
200
0
−200
−400
7760. 0
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 20
Mean 11.28
Std Dev 9.53
2
1.5
1
0.5
0
−0.5
−1
−1.5

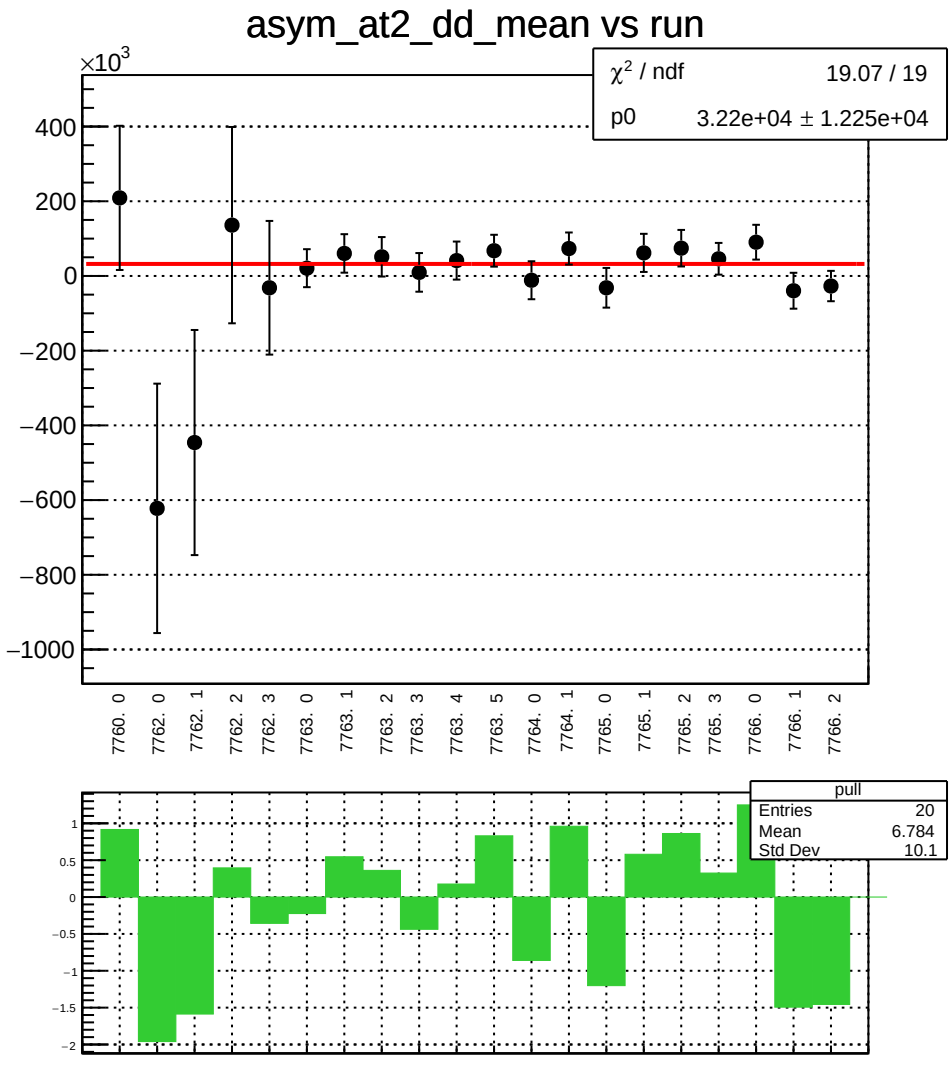

pull1D
Entries 20
Mean 0.06306
Std Dev 0.9104
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

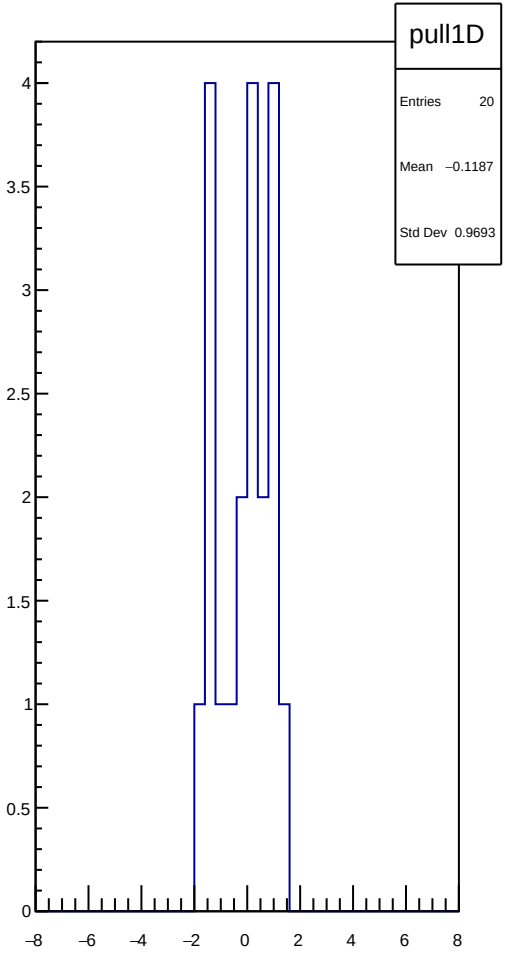

dit_asym_at2_dd_rms vs run
×10^3
800
700
600
500
400
300
200
100
χ² / ndf 1.423e+05 / 22
p0 2223 ± 3.966
7760. 0
7760. 2
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

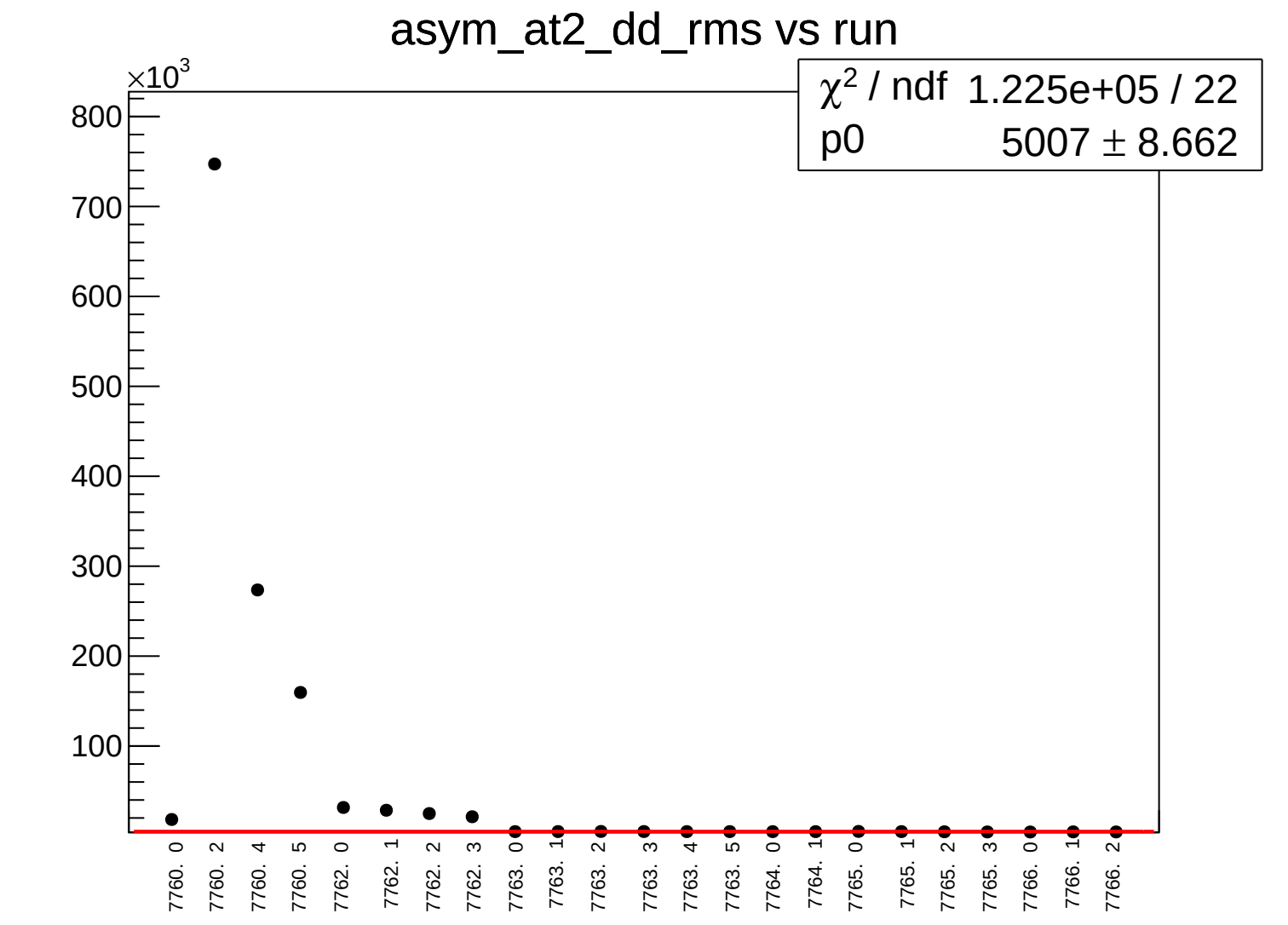

asym_at2_dd_correction_mean vs run
×10^3
χ² / ndf 13.85 / 18
p0 −3.498e+04 ± 1.562e+04
1500
1000
500
0
−500
−1000
7760. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 19
Mean 47.72
Std Dev 33.9
2
1.5
1
0.5
0
−0.5
−1
−1.5

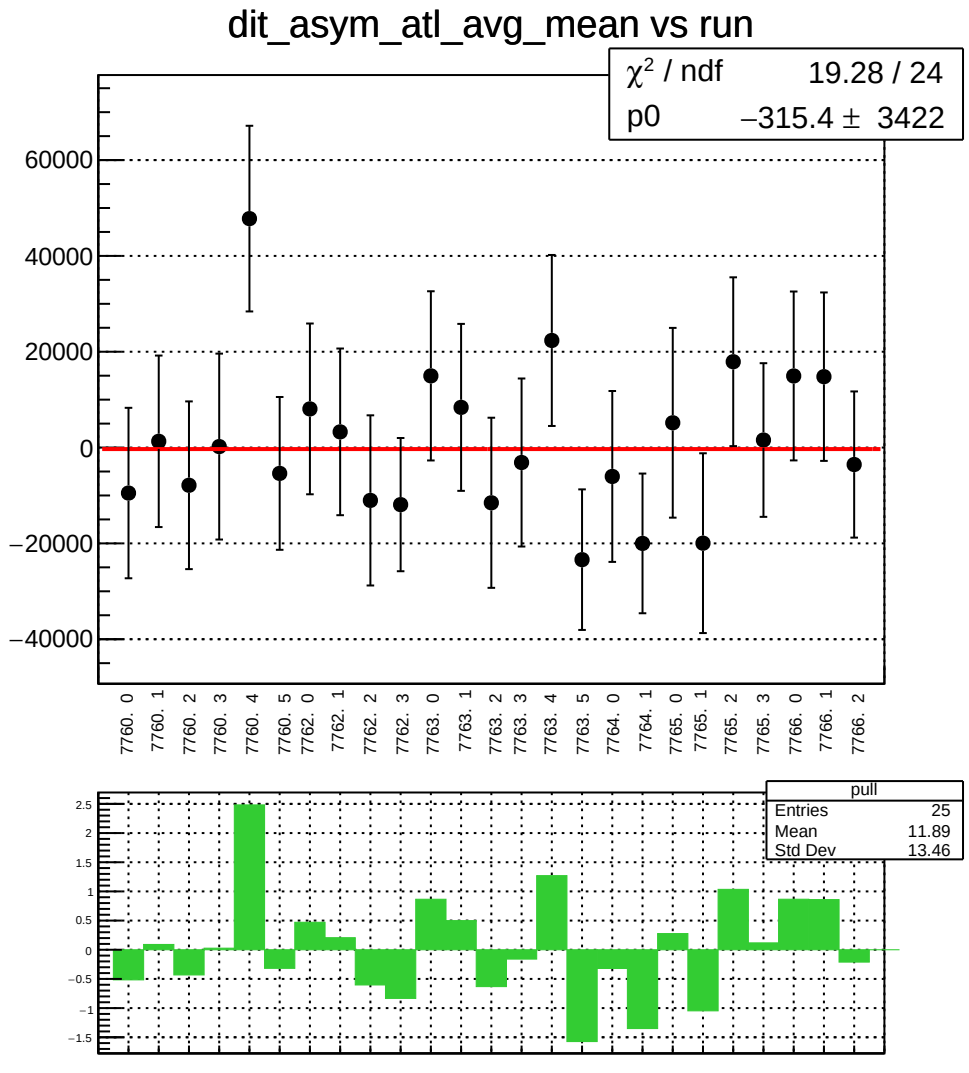

pull1D
Entries 19
Mean 0.01826
Std Dev 0.8537
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

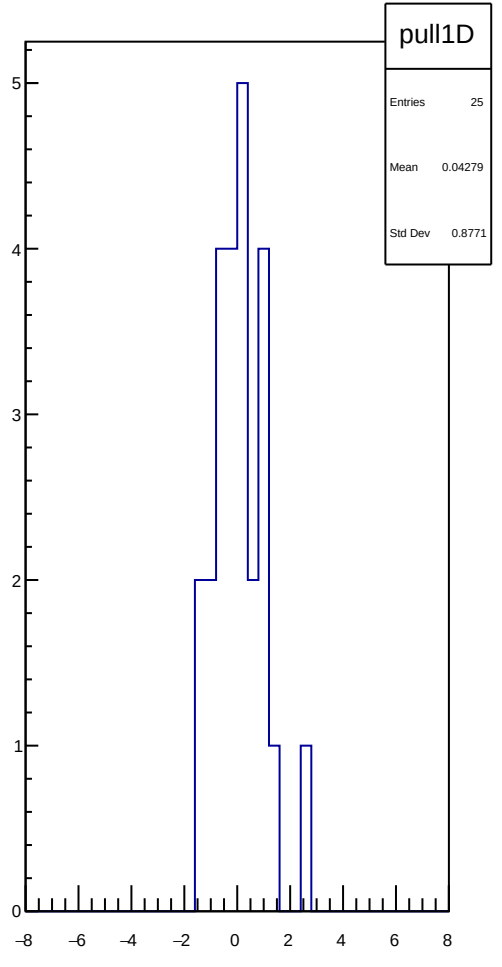

asym_at2_dd_correction_rms vs run
×10^3
600
500
400
300
200
100
χ² / ndf 1.178e+05 / 21
p0 6254 ± 11.04
7760. 0
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

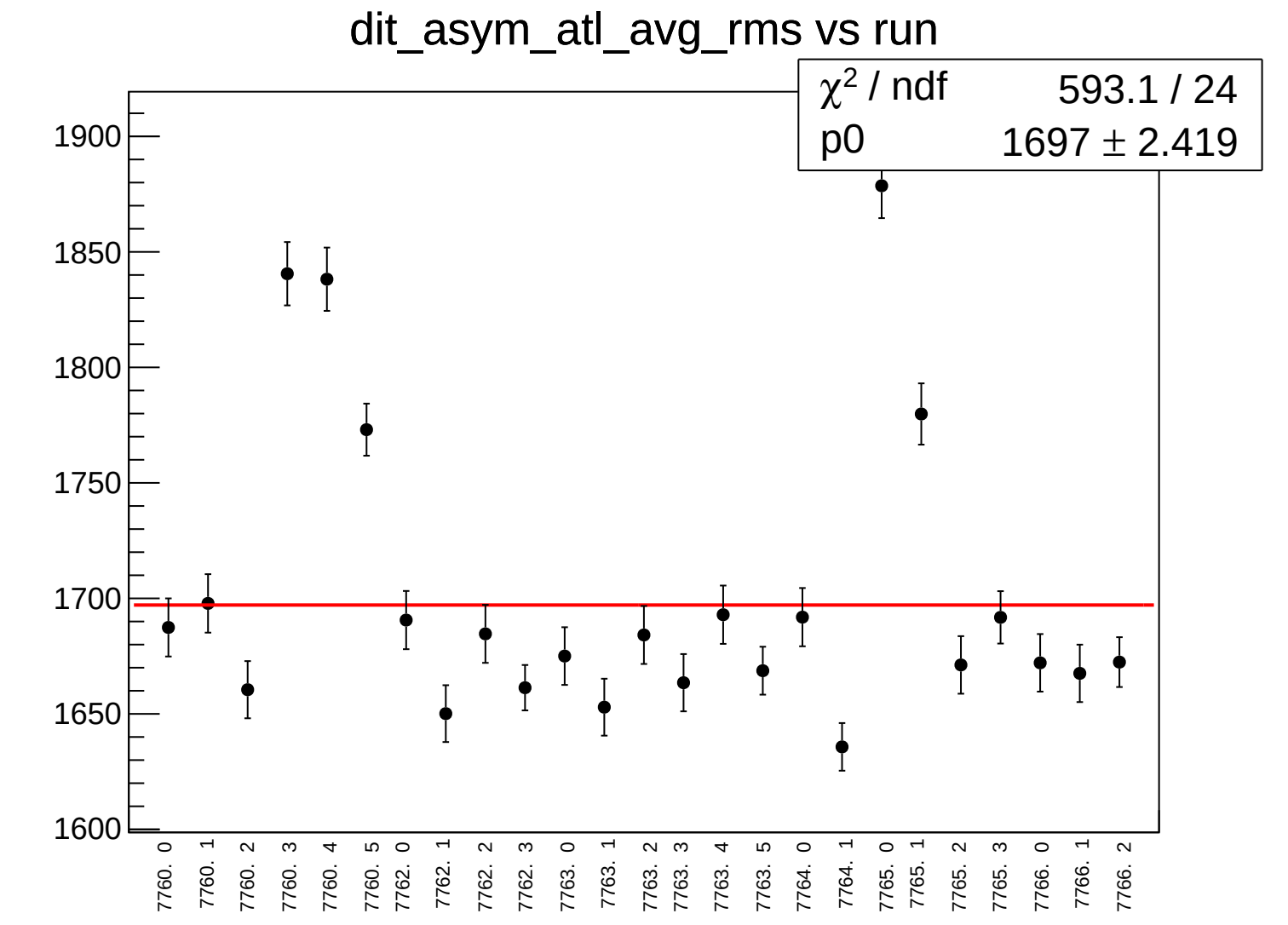

asym_at2_dd_mean vs run
×10^3
χ² / ndf 19.07 / 19
p0 3.22e+04 ± 1.225e+04
400
200
0
−200
−400
−600
−800
−1000
7760. 0
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 20
Mean 6.784
Std Dev 10.1
1
0.5
0
−0.5
−1
−1.5
−2

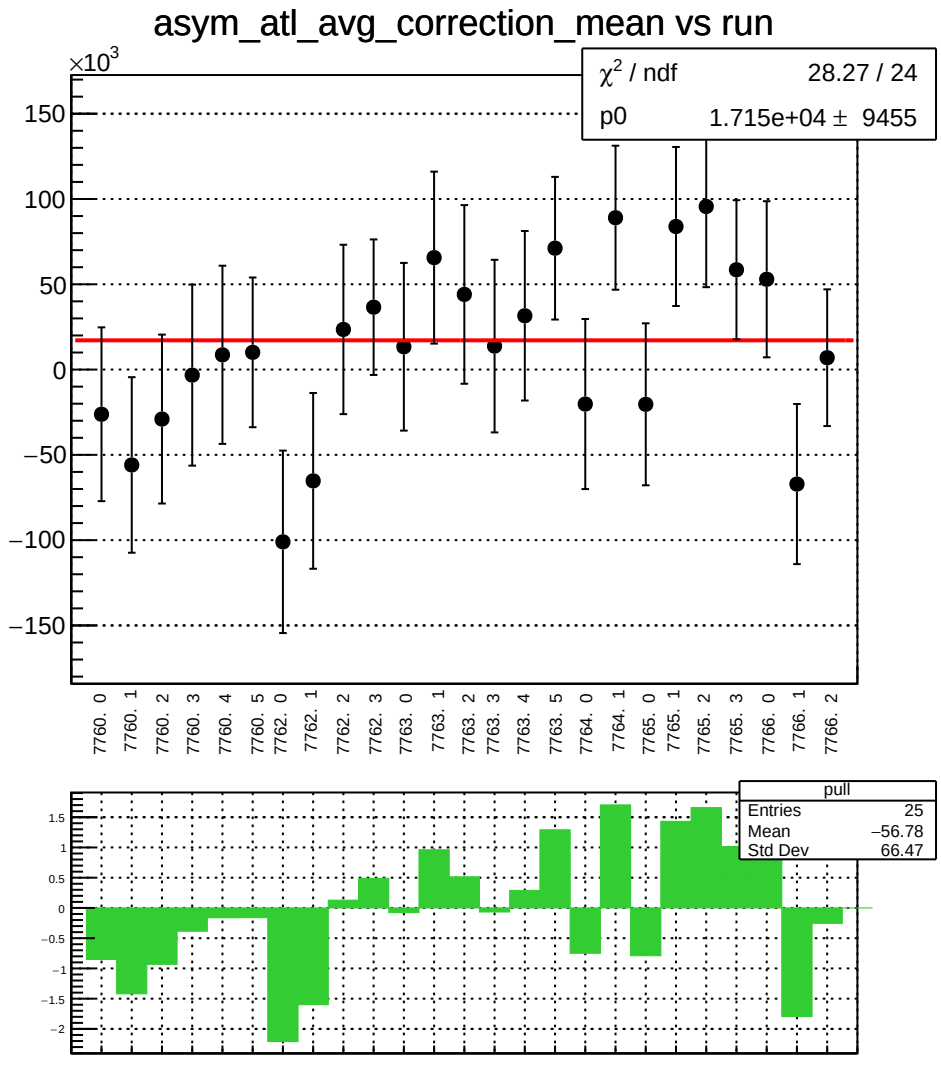

pull1D
Entries 20
Mean −0.1187
Std Dev 0.9693
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

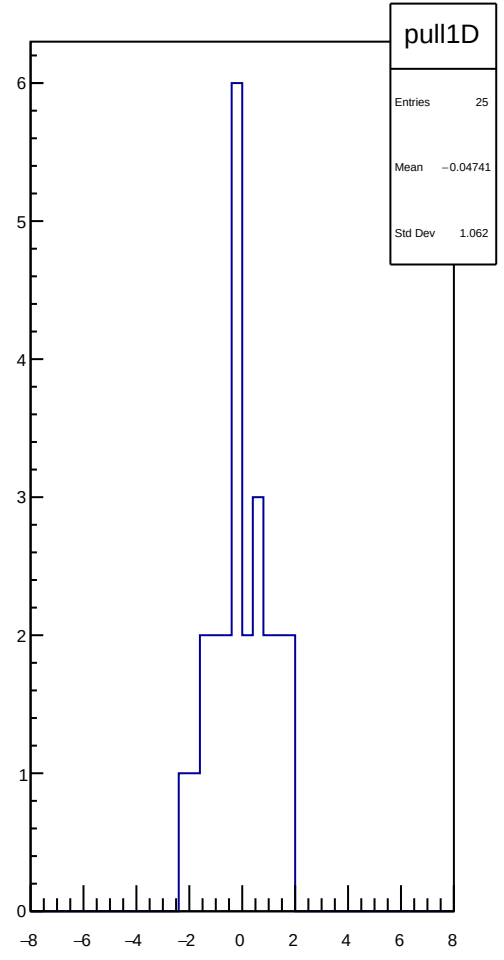

asym_at2_dd_rms vs run
×10^3
800
700
600
500
400
300
200
100
χ² / ndf 1.225e+05 / 22
p0 5007 ± 8.662
7760. 0
7760. 2
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

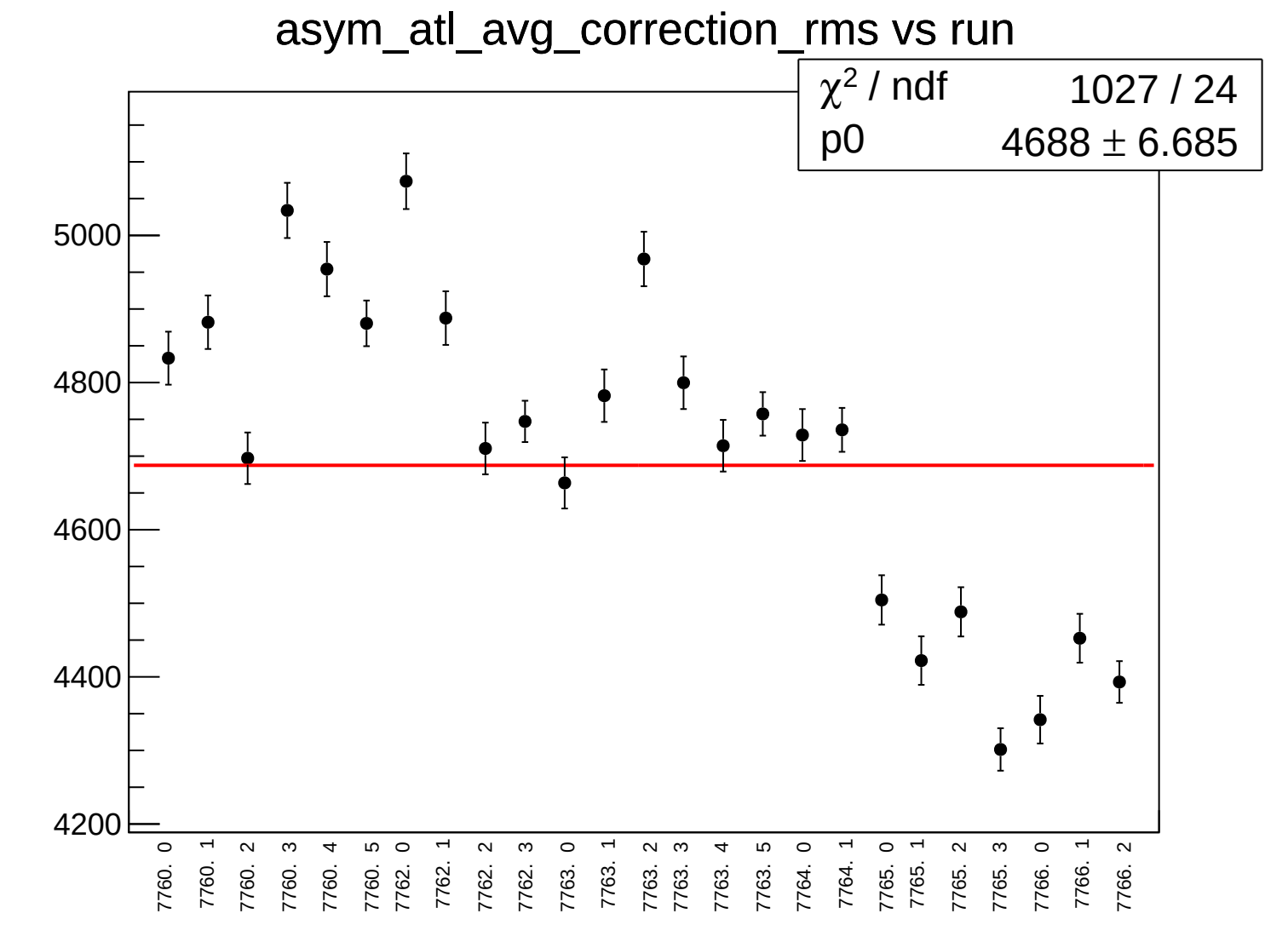

dit_asym_atl_avg_mean vs run
χ² / ndf 19.28 / 24
p0 −315.4 ± 3422
60000
40000
20000
0
−20000
−40000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 11.89
Std Dev 13.46
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

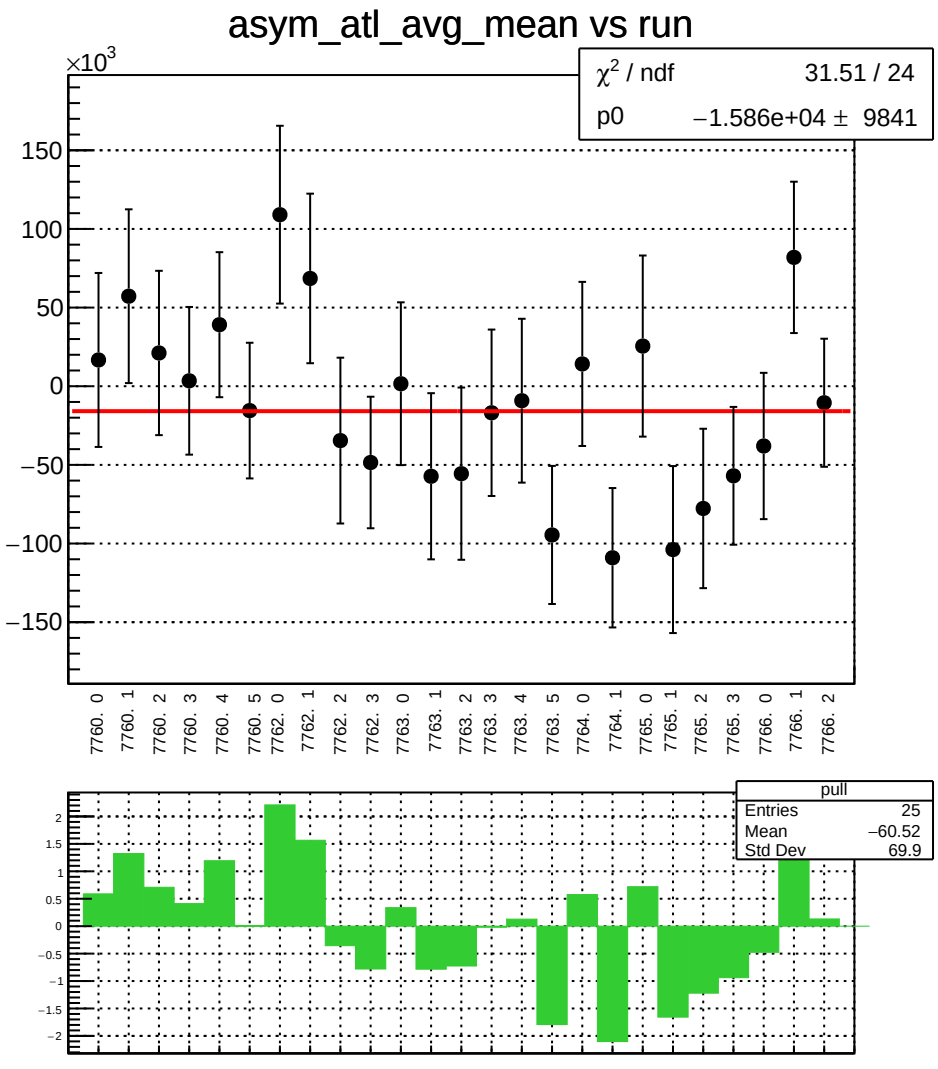

pull1D
Entries 25
Mean 0.04279
Std Dev 0.8771
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

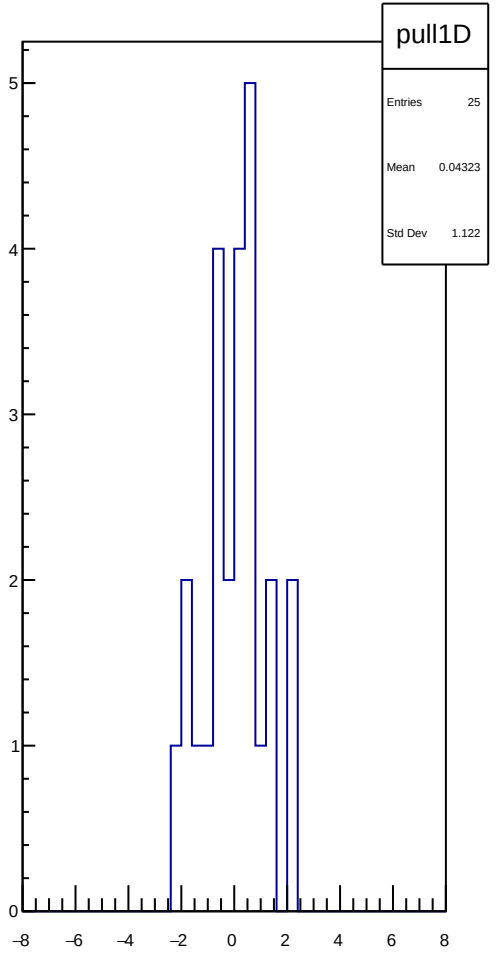

dit_asym_atl_avg_rms vs run
χ² / ndf 593.1 / 24
p0 1697 ± 2.419
1900
1850
1800
1750
1700
1650
1600
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

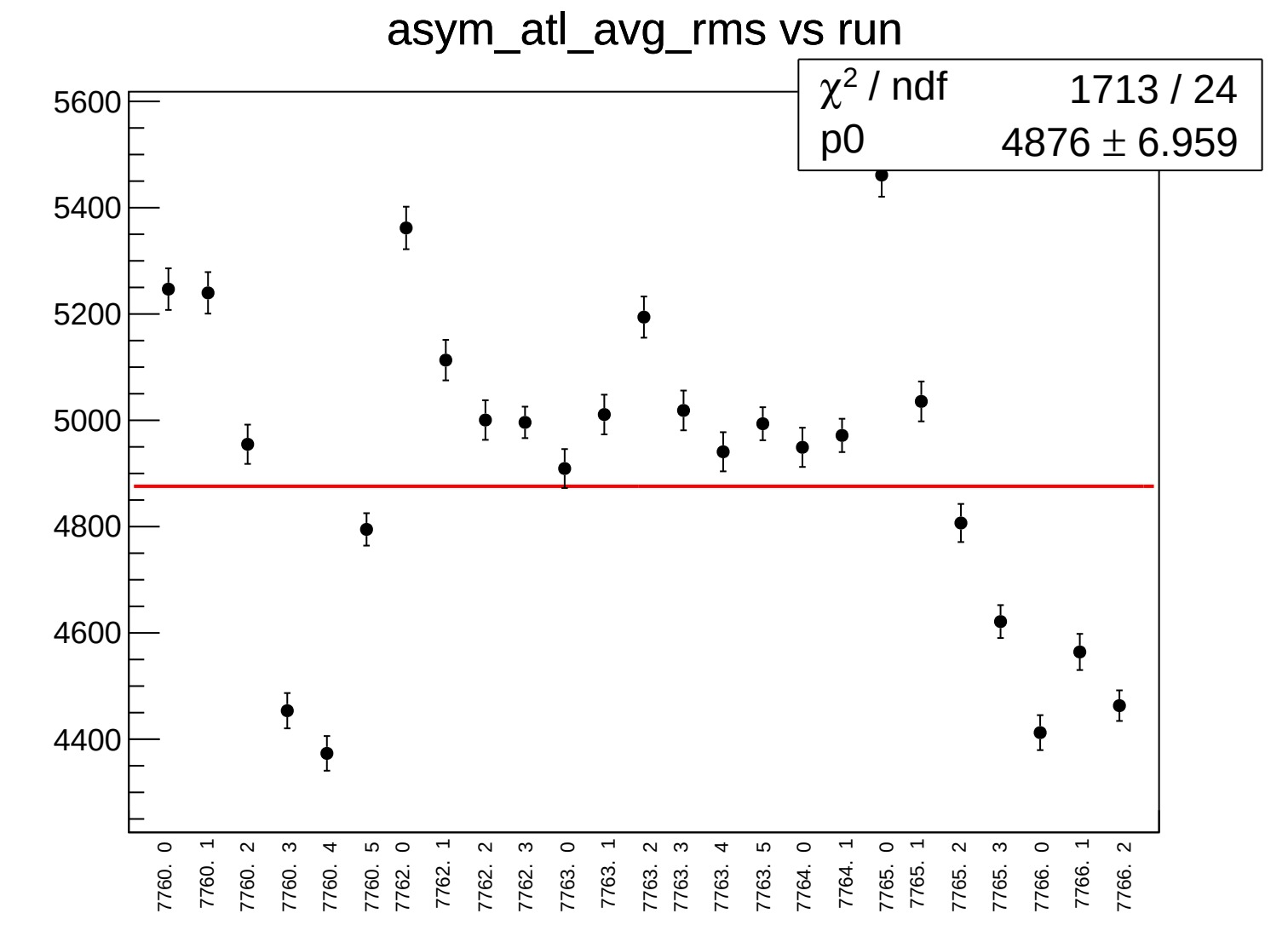

asym_atl_avg_correction_mean vs run
×10^3
χ² / ndf 28.27 / 24
p0 1.715e+04 ± 9455
150
100
50
0
−50
−100
−150
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −56.78
Std Dev 66.47
1.5
1
0.5
0
−0.5
−1
−1.5
−2

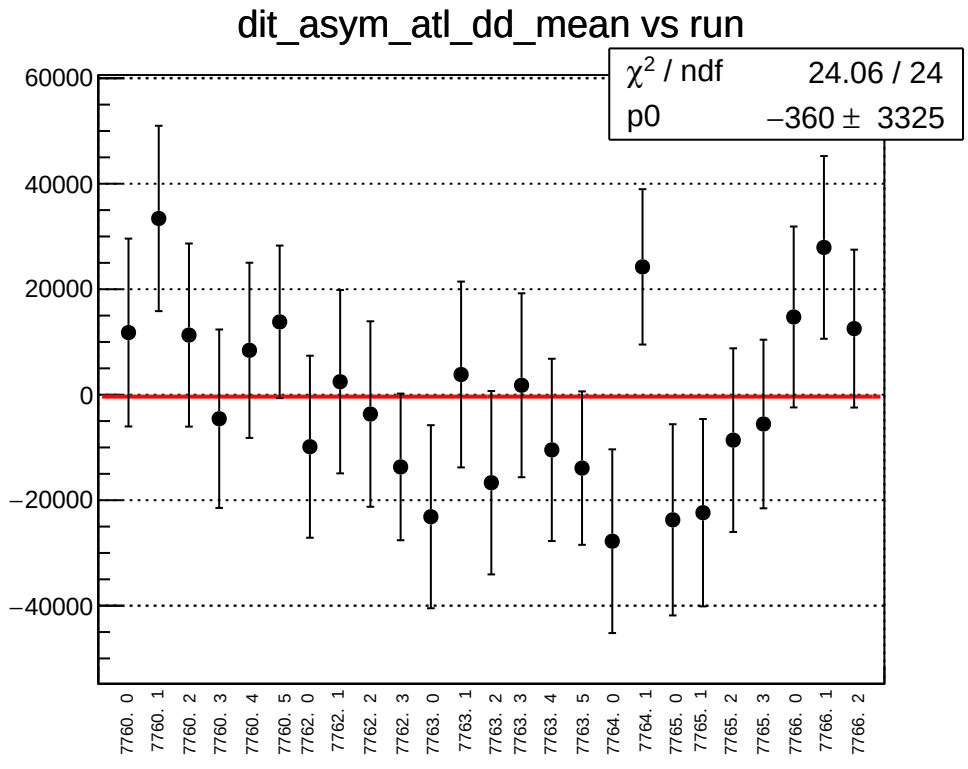

pull1D
Entries 25
Mean −0.04741
Std Dev 1.062
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

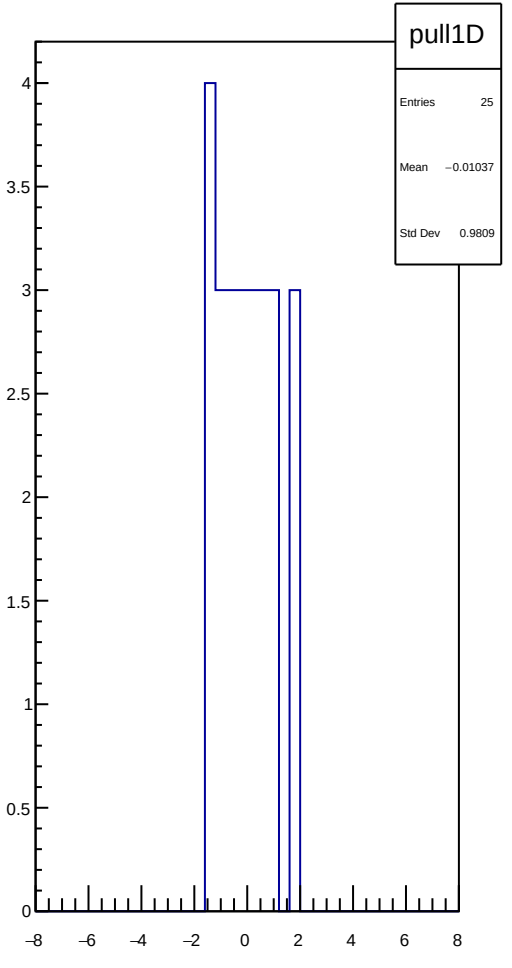

asym_atl_avg_correction_rms vs run
χ² / ndf 1027 / 24
p0 4688 ± 6.685
5000
4800
4600
4400
4200
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

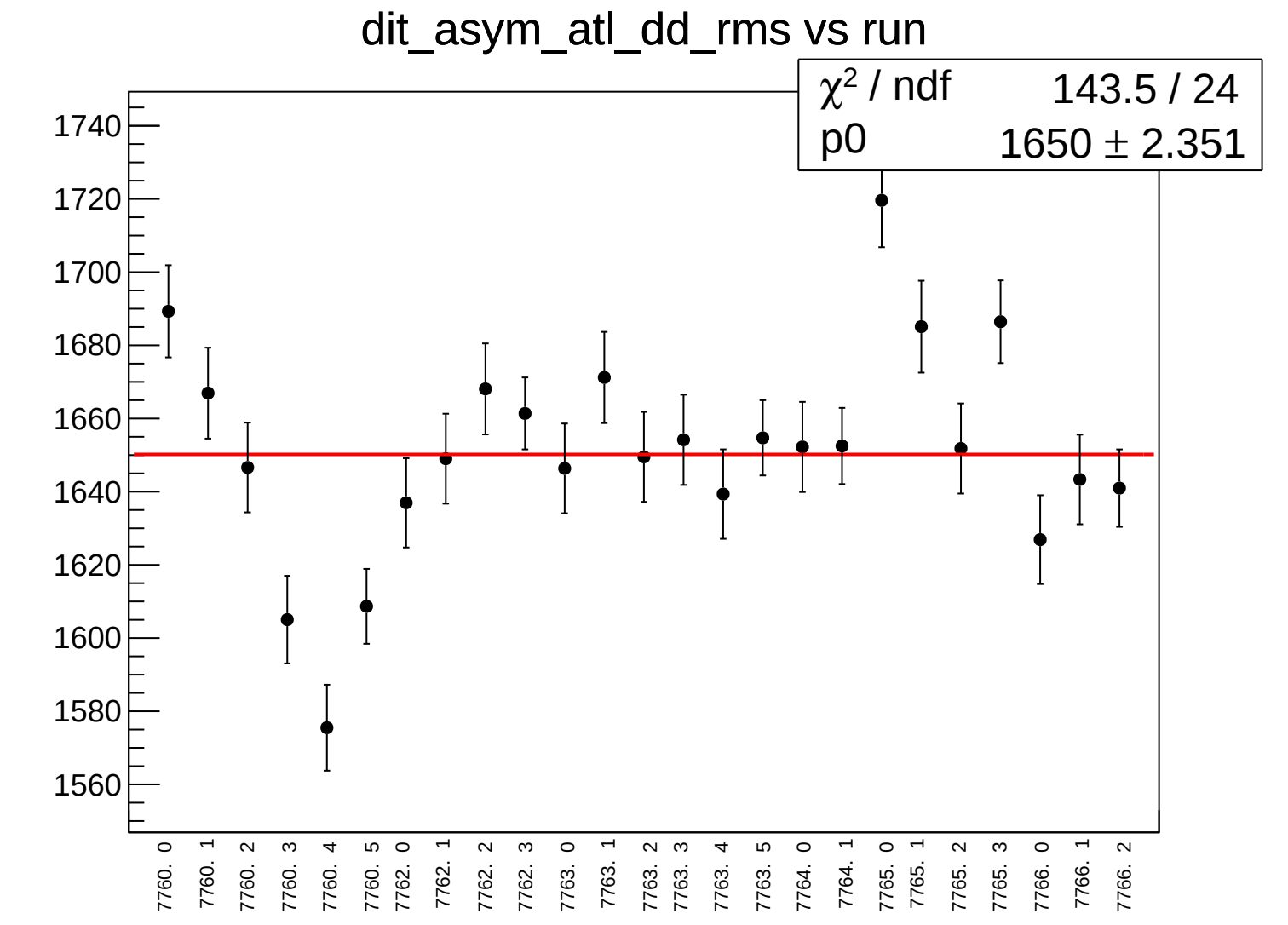

asym_atl_avg_mean vs run
×10^3
χ^2 / ndf 31.51 / 24
p0 −1.586e+04 ± 9841
150
100
50
0
−50
−100
−150
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −60.52
Std Dev 69.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

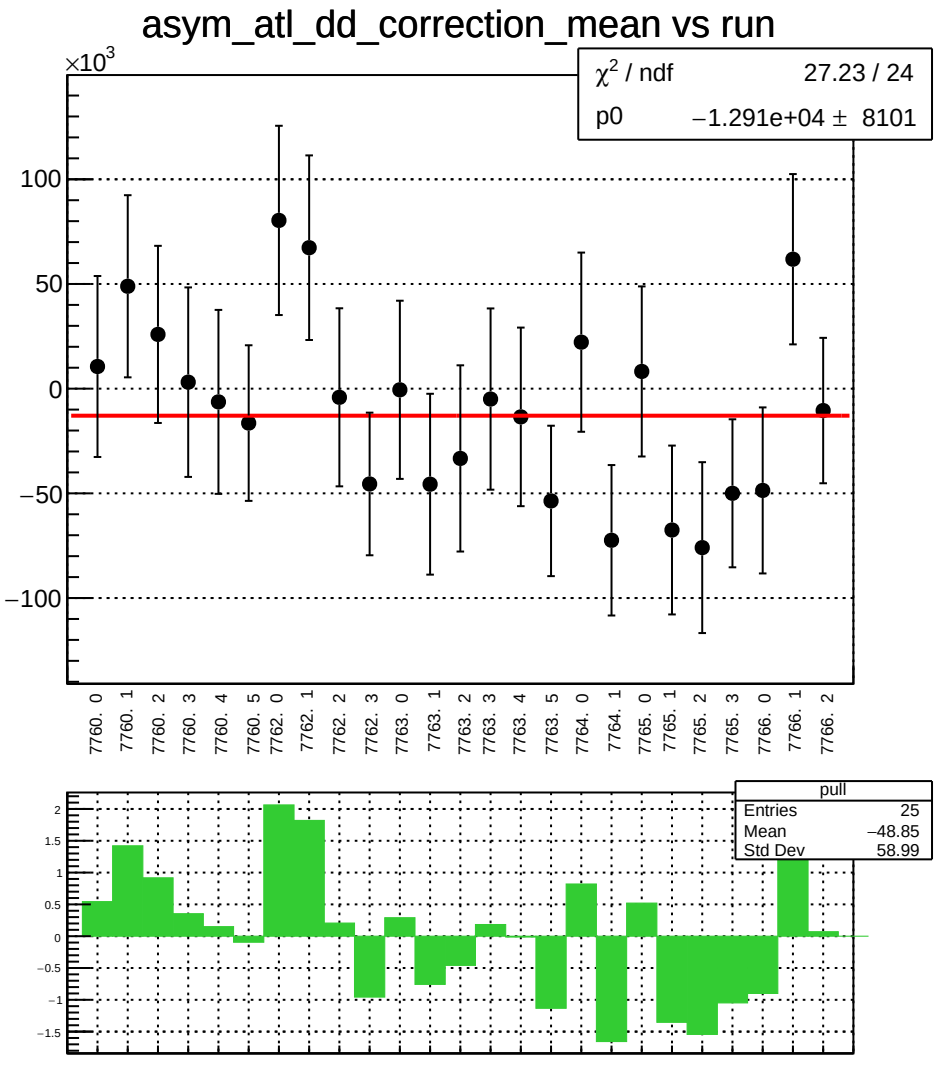

pull1D
Entries 25
Mean 0.04323
Std Dev 1.122
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

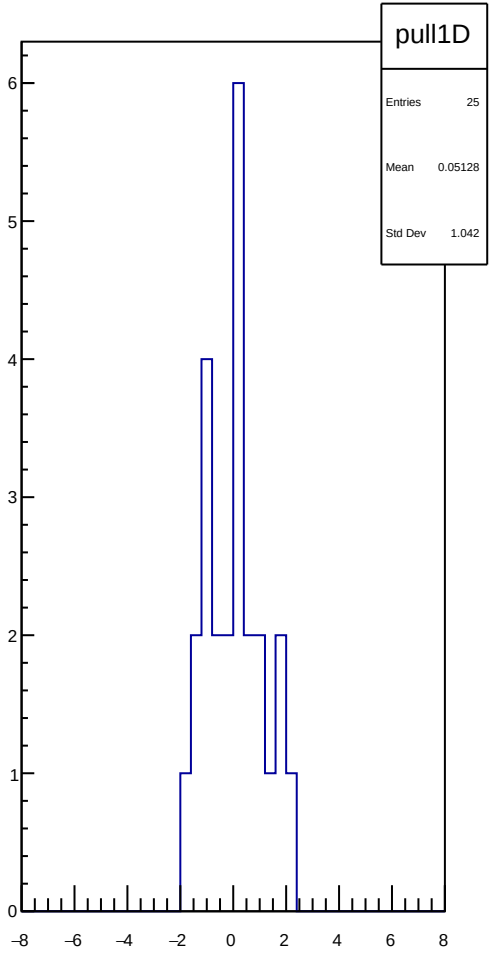

asym_atl_avg_rms vs run
χ² / ndf 1713 / 24
p0 4876 ± 6.959
5600
5400
5200
5000
4800
4600
4400
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

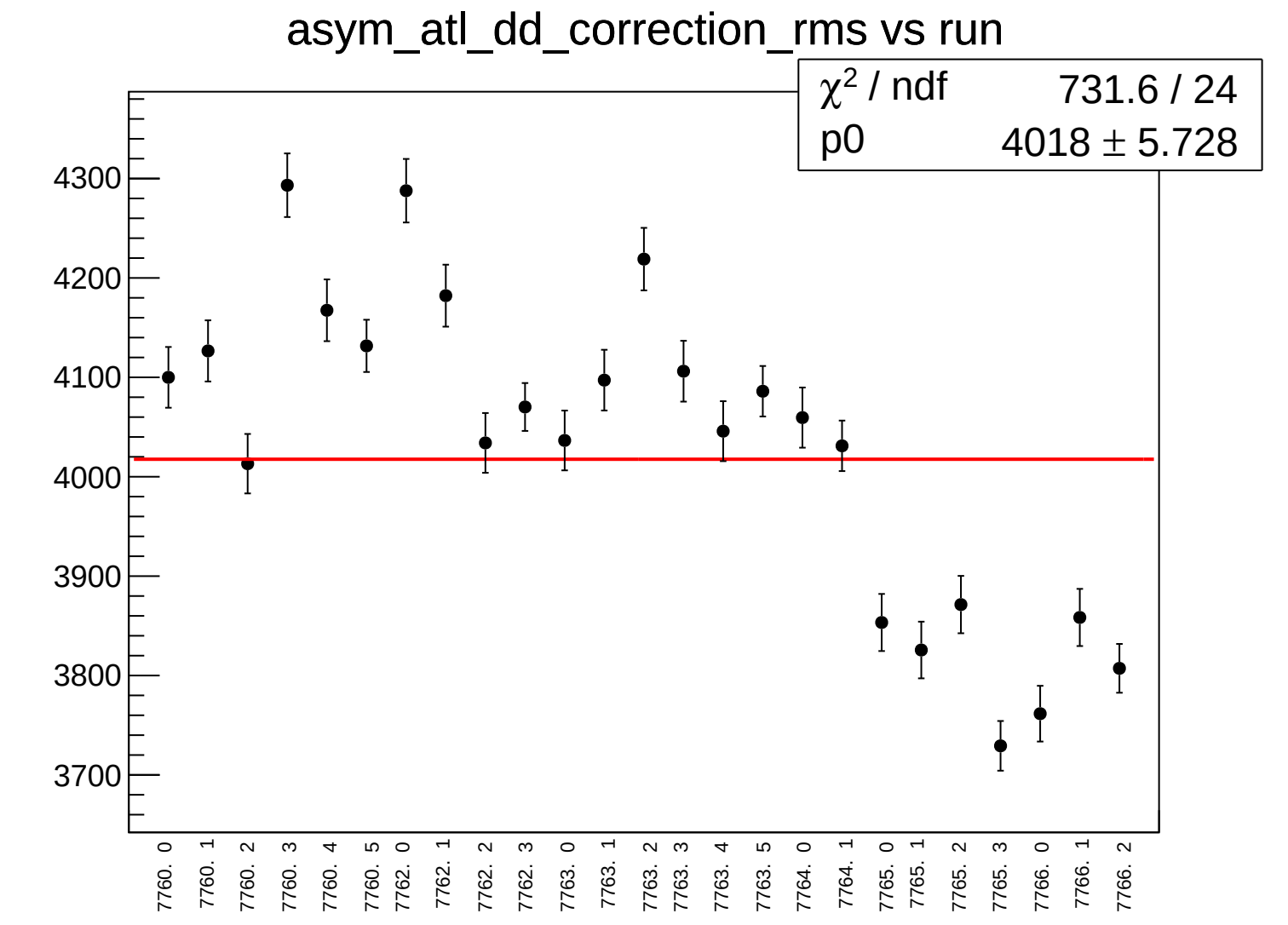

dit_asym_atl_dd_mean vs run
χ² / ndf 24.06 / 24
p0 −360 ± 3325
60000
40000
20000
0
−20000
−40000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 105.9
Std Dev 106.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

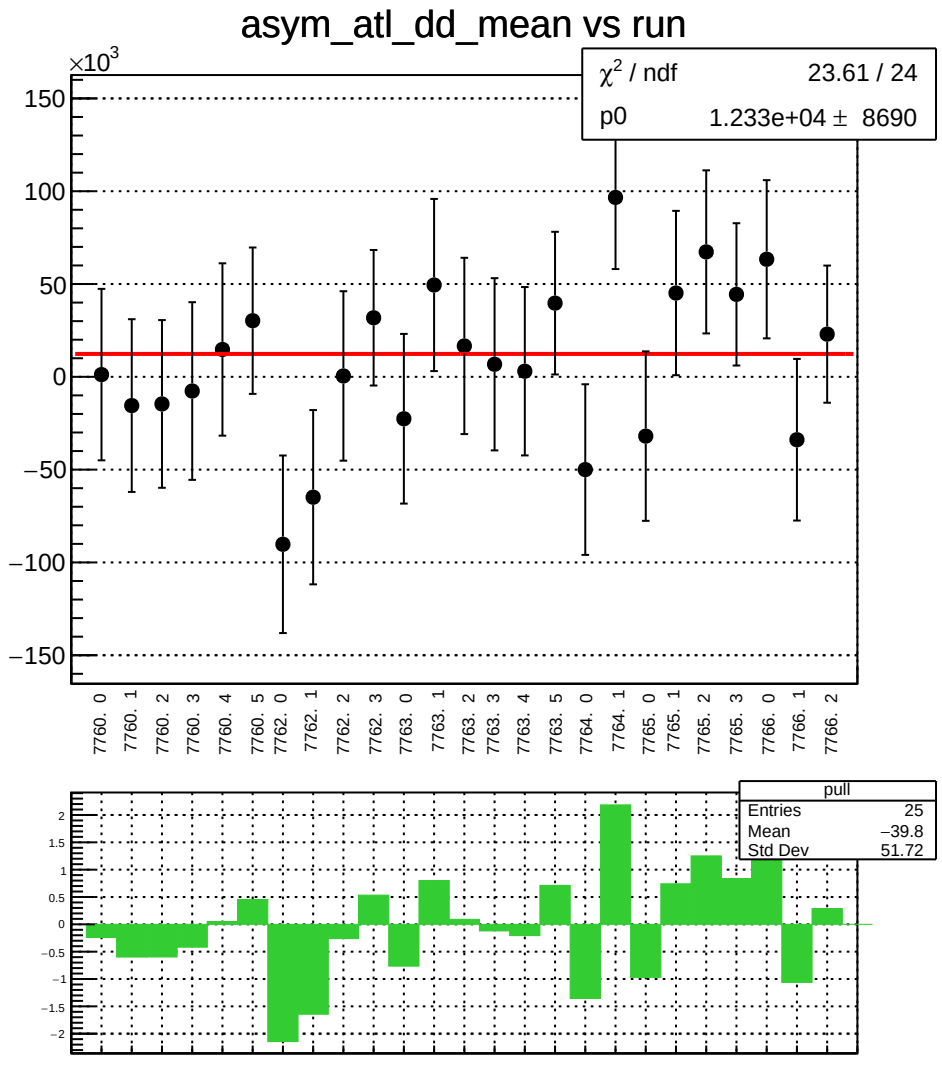

pull1D
Entries 25
Mean −0.01037
Std Dev 0.9809
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

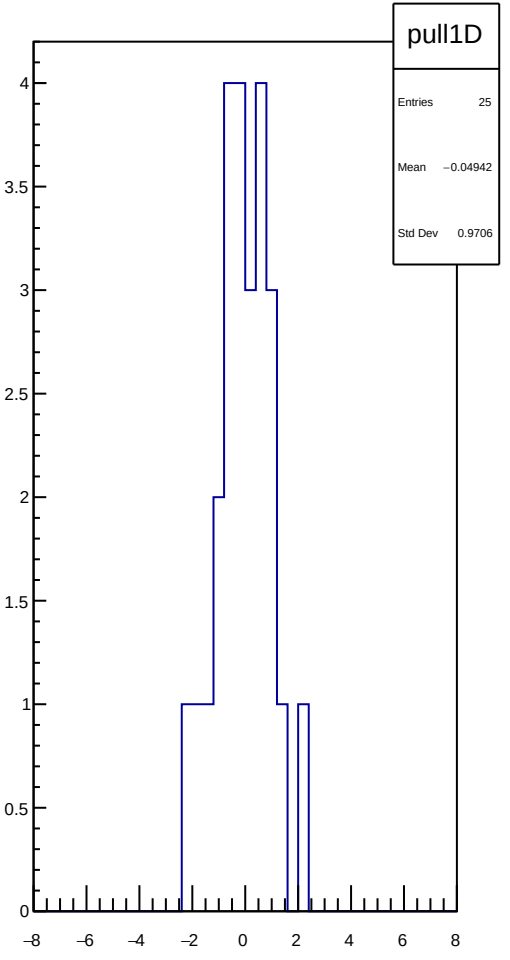

dit_asym_atl_dd_rms vs run
χ² / ndf 143.5 / 24
p0 1650 ± 2.351
1740
1720
1700
1680
1660
1640
1620
1600
1580
1560
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

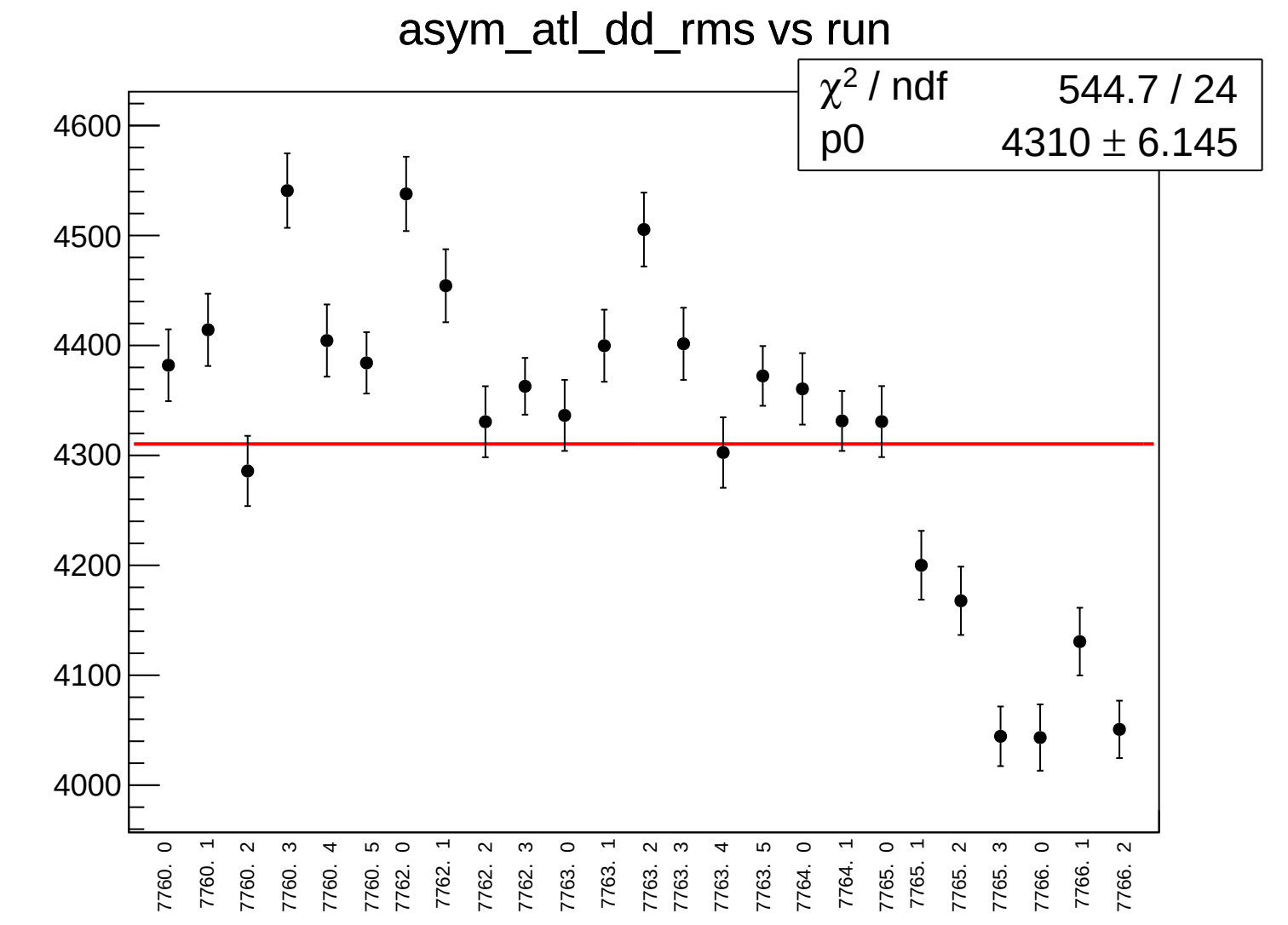

asym_atl_dd_correction_mean vs run
×10^3
χ² / ndf 27.23 / 24
p0 −1.291e+04 ± 8101
100
50
0
−50
−100
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −48.85
Std Dev 58.99
2
1.5
1
0.5
0
−0.5
−1
−1.5

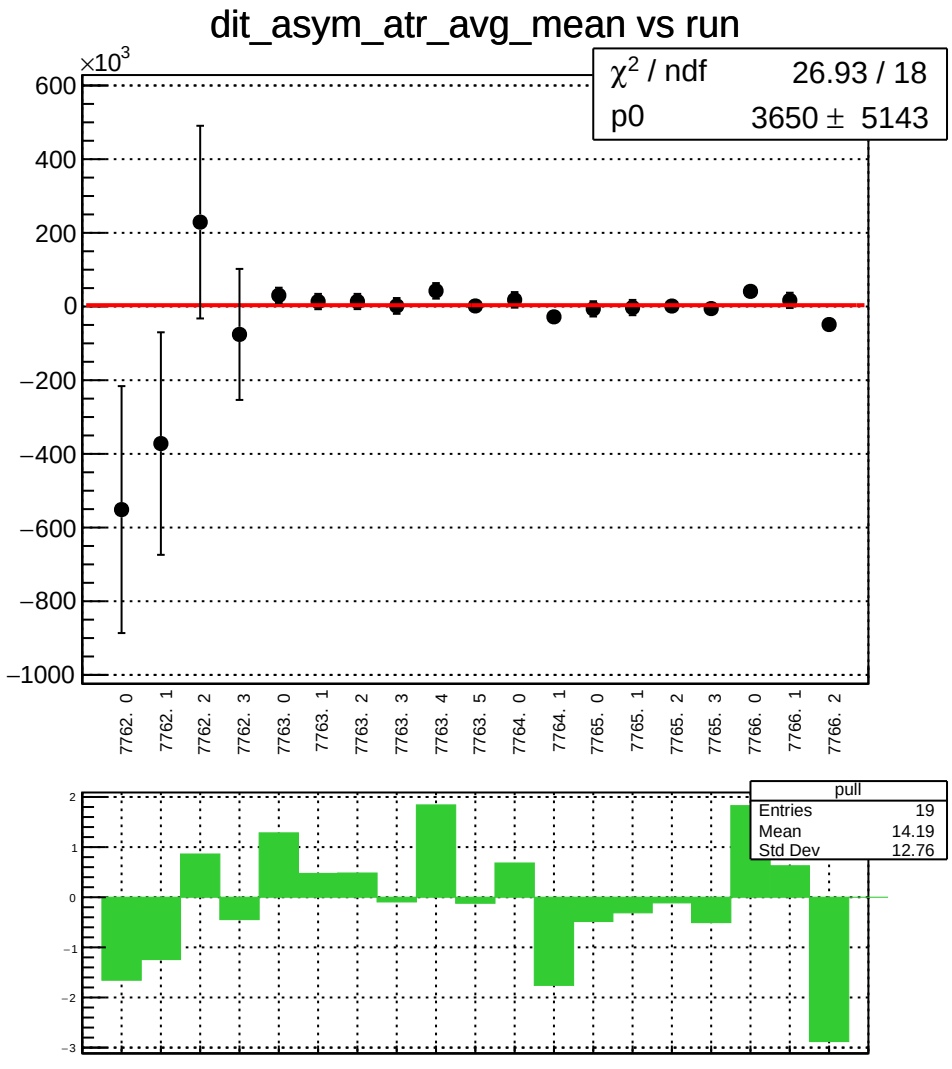

pull1D
Entries 25
Mean 0.05128
Std Dev 1.042
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

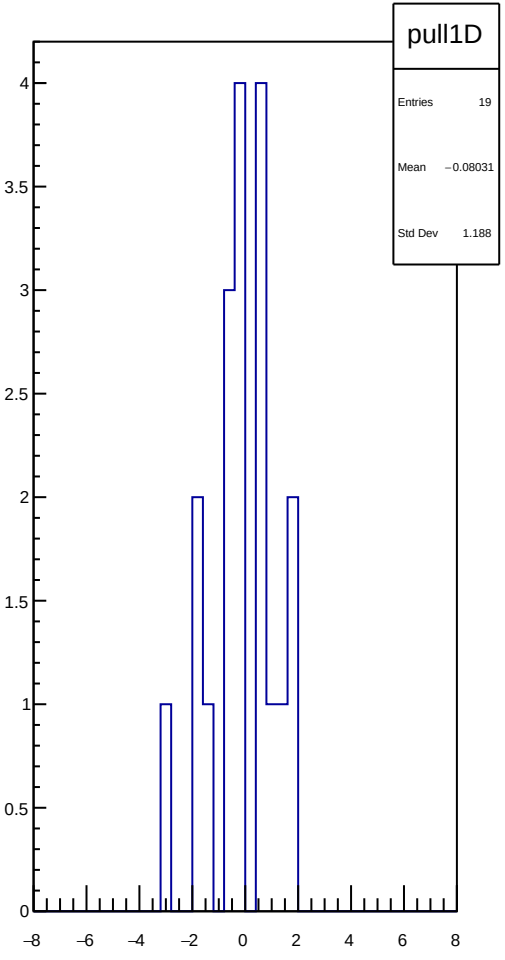

asym_atl_dd_correction_rms vs run
χ² / ndf 731.6 / 24
p0 4018 ± 5.728
4300
4200
4100
4000
3900
3800
3700
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

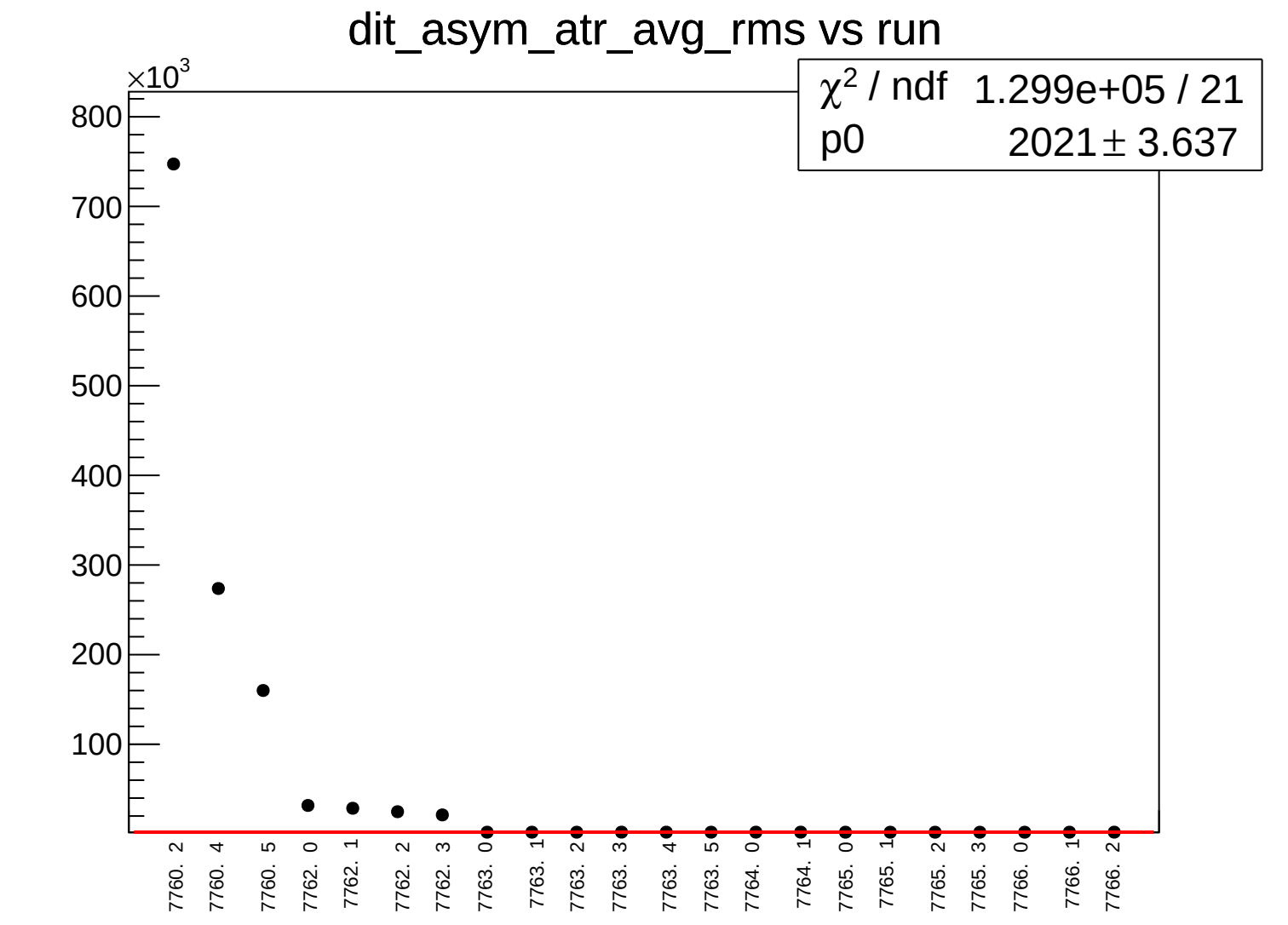

asym_atl_dd_mean vs run
×10^3
χ² / ndf 23.61 / 24
p0 1.233e+04 ± 8690
150
100
50
0
−50
−100
−150
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −39.8
Std Dev 51.72
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

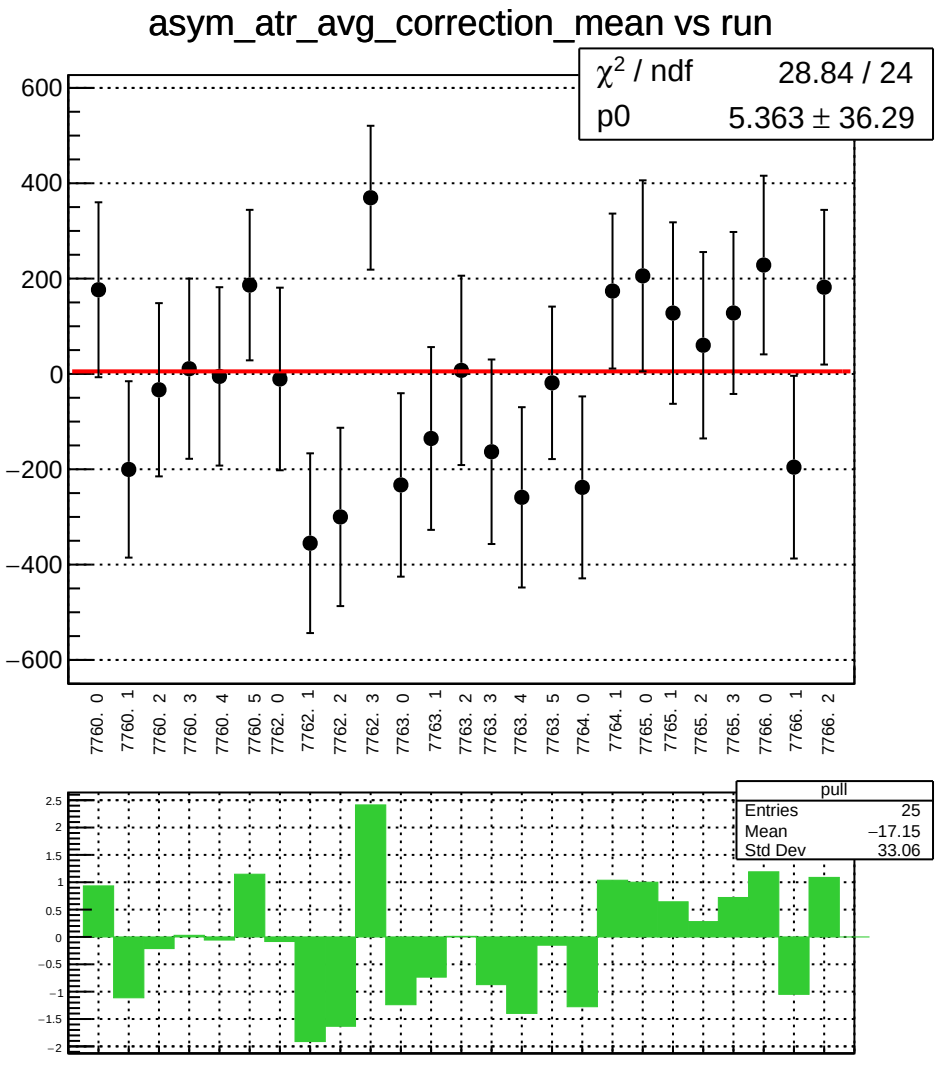

pull1D
Entries 25
Mean −0.04942
Std Dev 0.9706
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

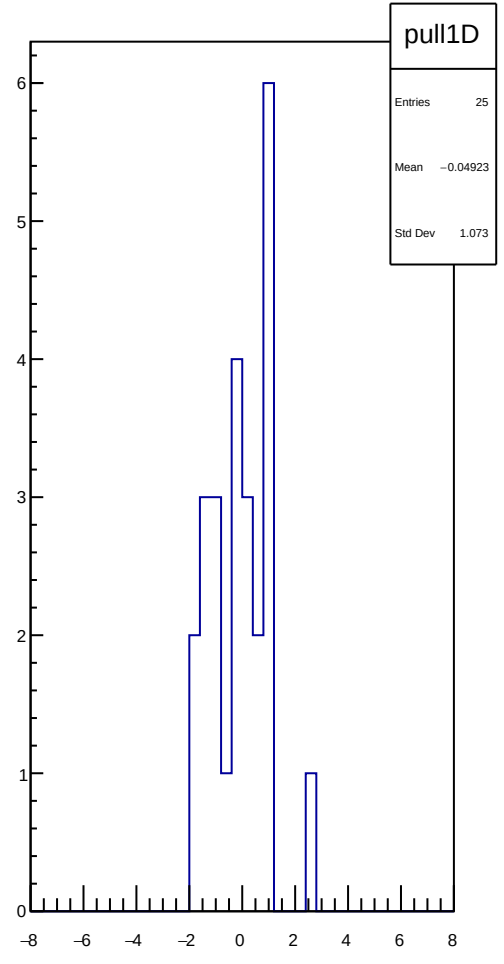

asym_atl_dd_rms vs run
χ² / ndf 544.7 / 24
p0 4310 ± 6.145
4600
4500
4400
4300
4200
4100
4000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

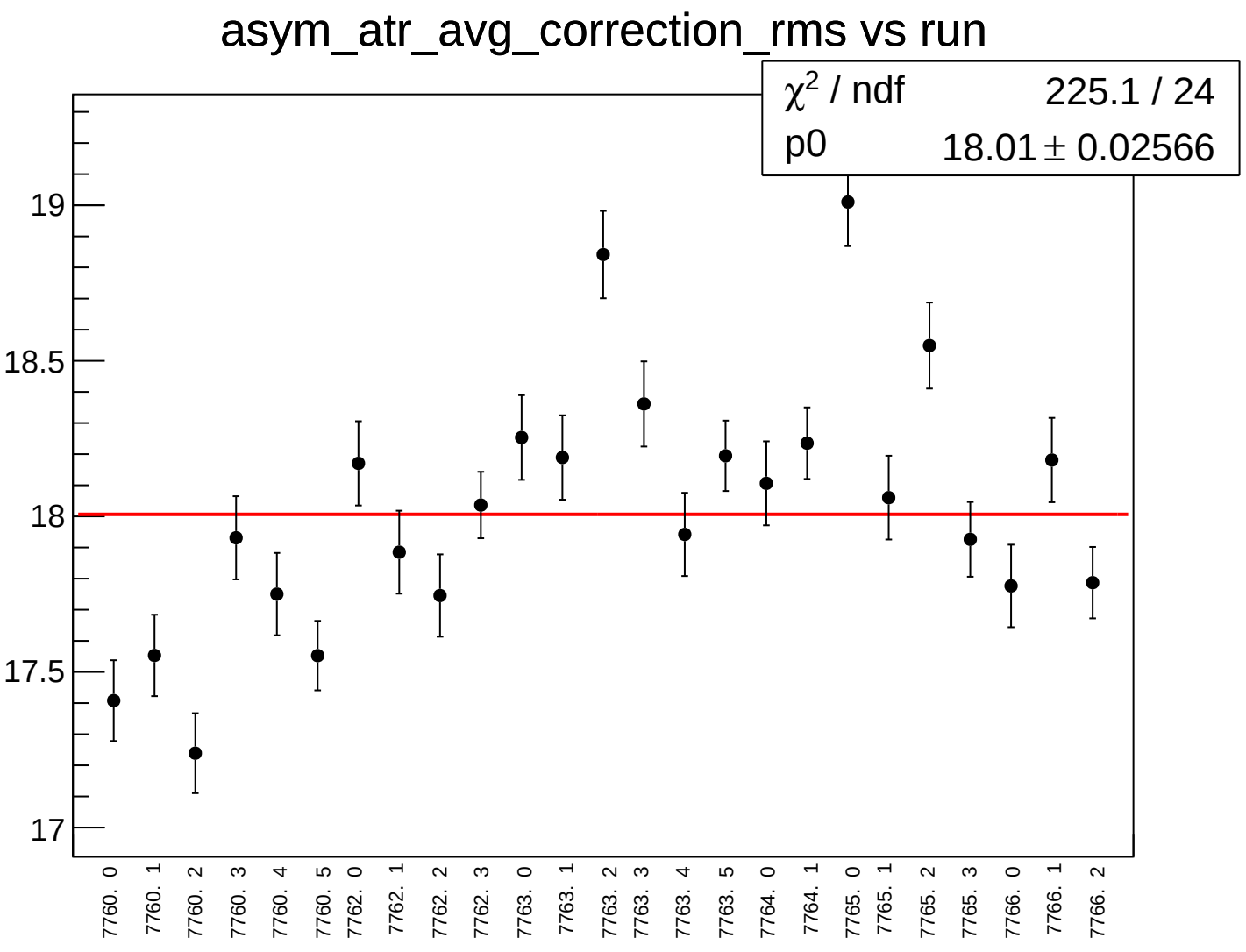

dit_asym_atr_avg_mean vs run
×10^3
χ^2 / ndf 26.93 / 18
p0 3650 ± 5143
600
400
200
0
−200
−400
−600
−800
−1000
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 19
Mean 14.19
Std Dev 12.76
2
1
0
−1
−2
−3

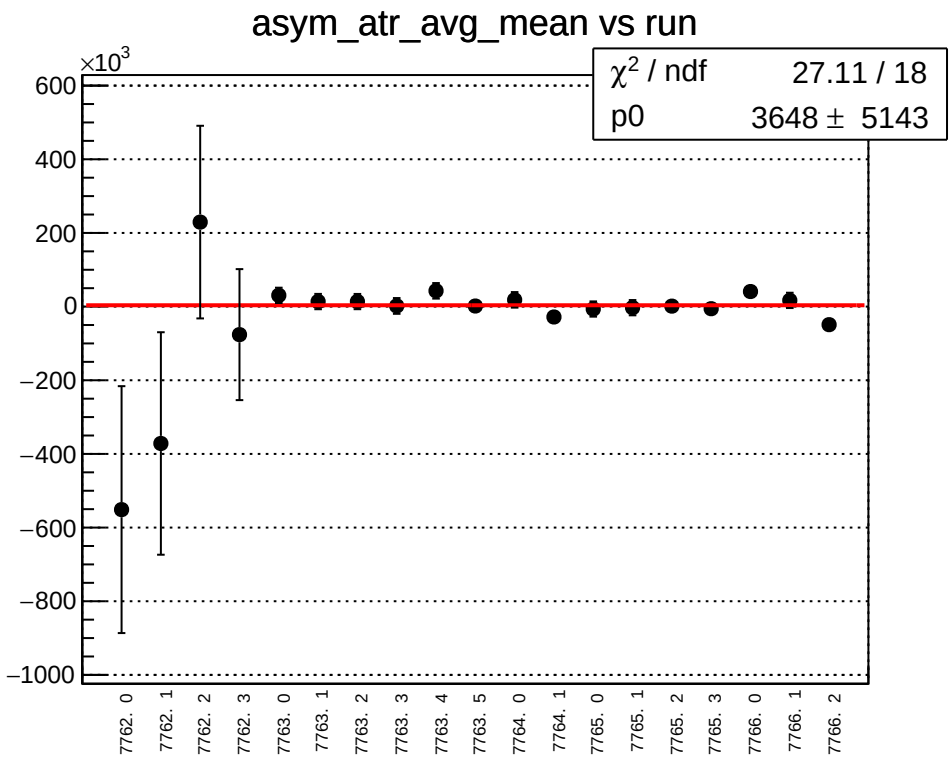

pull1D
Entries 19
Mean −0.08031
Std Dev 1.188
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

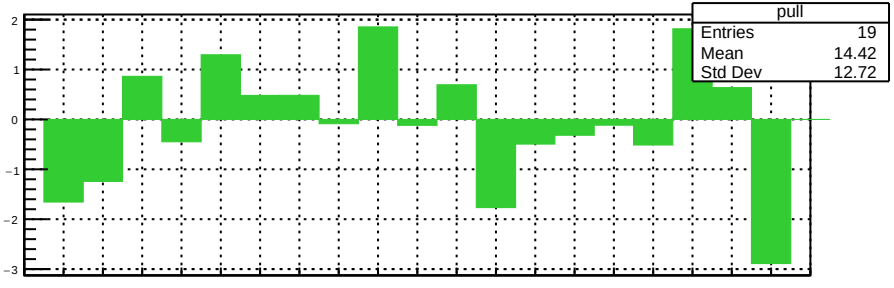

dit_asym_atr_avg_rms vs run
×10^3
800
700
600
500
400
300
200
100
χ² / ndf 1.299e+05 / 21
p0 2021 ± 3.637
7760. 2
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

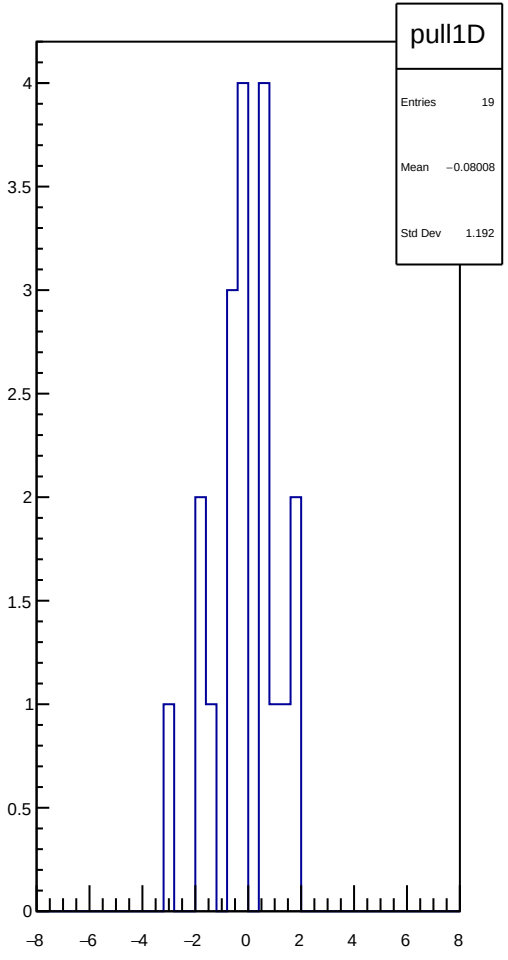

asym_atr_avg_correction_mean vs run
χ² / ndf 28.84 / 24
p0 5.363 ± 36.29
600
400
200
0
−200
−400
−600
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −17.15
Std Dev 33.06
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

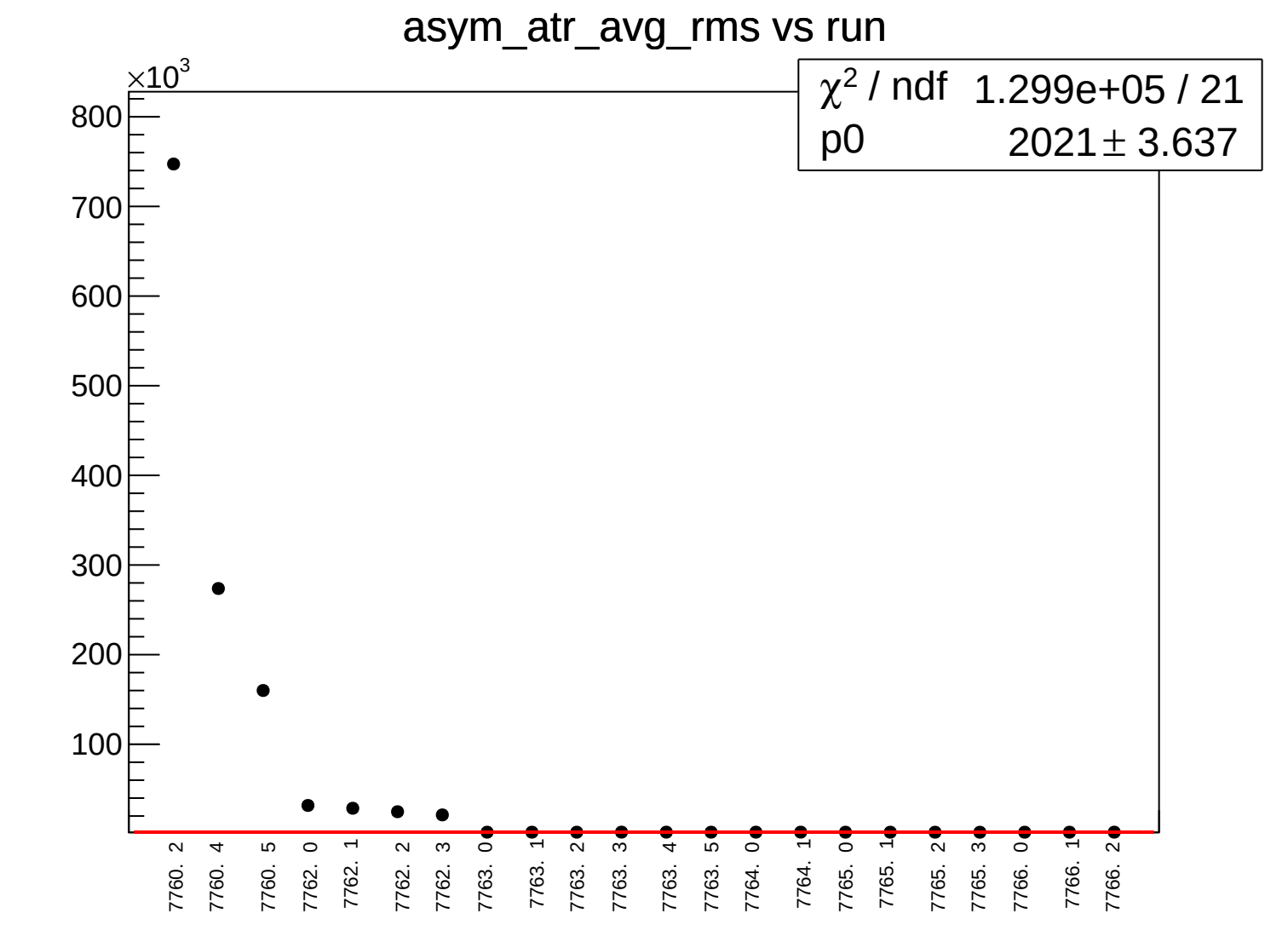

pull1D
Entries 25
Mean −0.04923
Std Dev 1.073
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

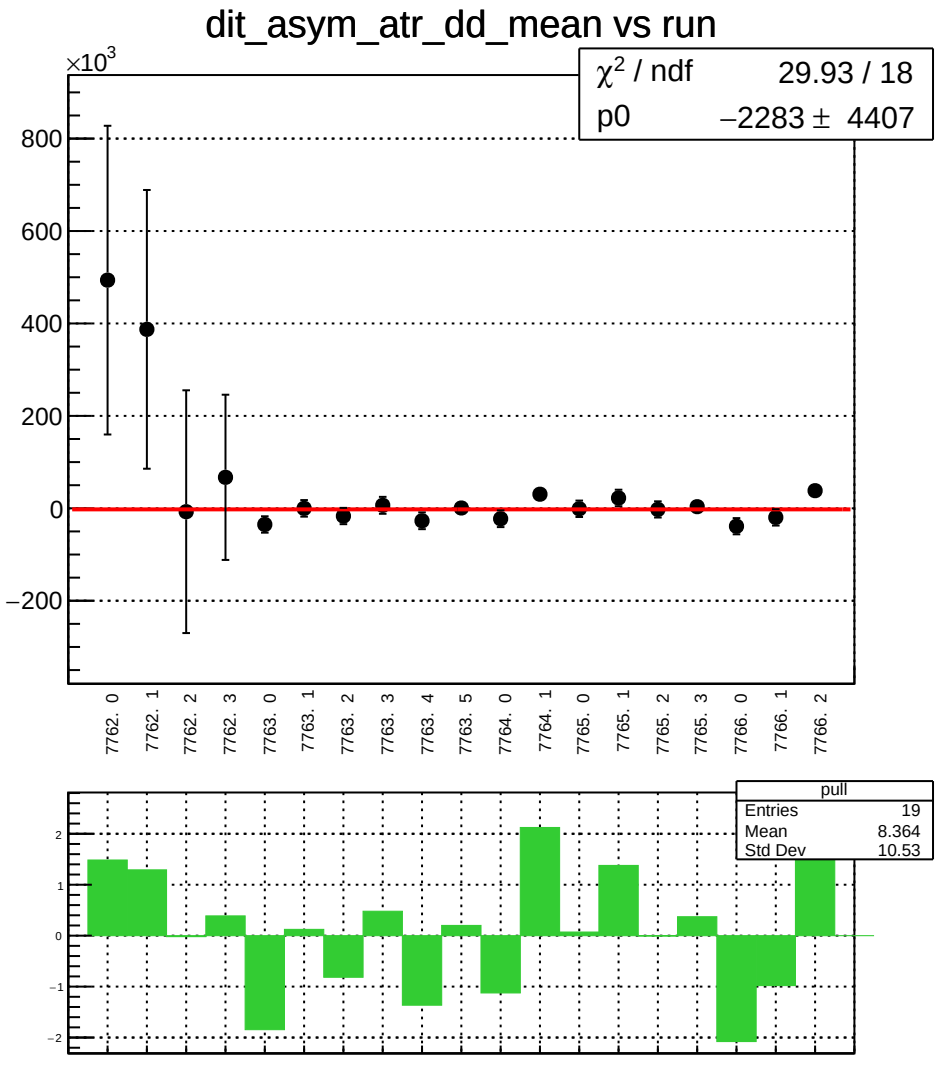

asym_atr_avg_correction_rms vs run
χ² / ndf 225.1 / 24
p0 18.01 ± 0.02566
19
18.5
18
17.5
17
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

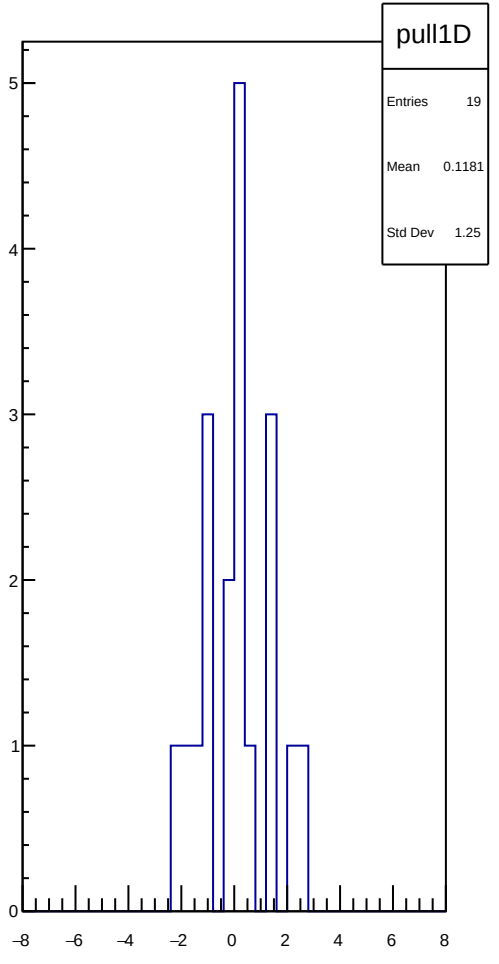

asym_atr_avg_mean vs run
×10^3
χ² / ndf 27.11 / 18
p0 3648 ± 5143
600
400
200
0
−200
−400
−600
−800
−1000
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

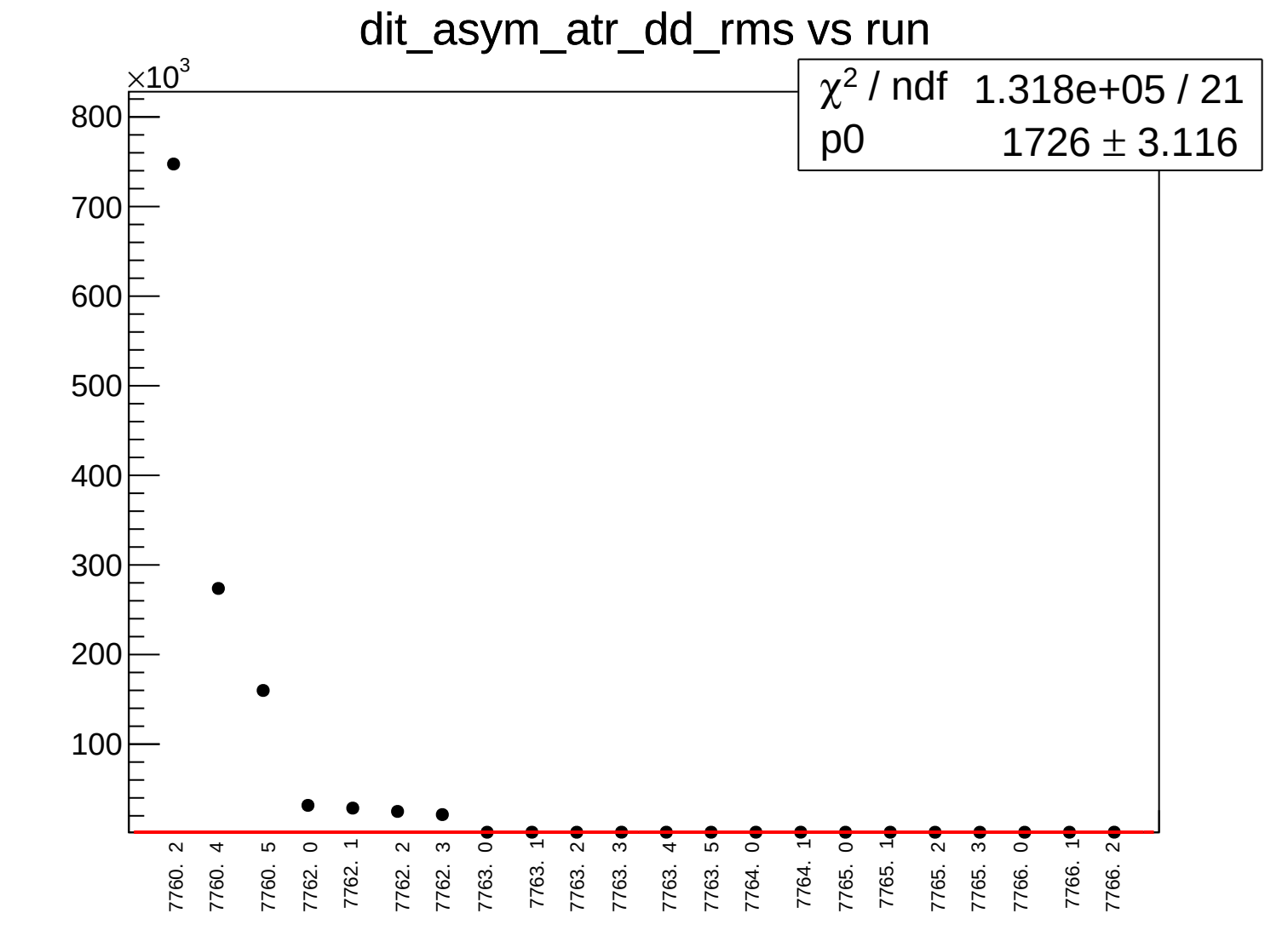

pull
Entries 19
Mean 14.42
Std Dev 12.72
2
1
0
−1
−2
−3

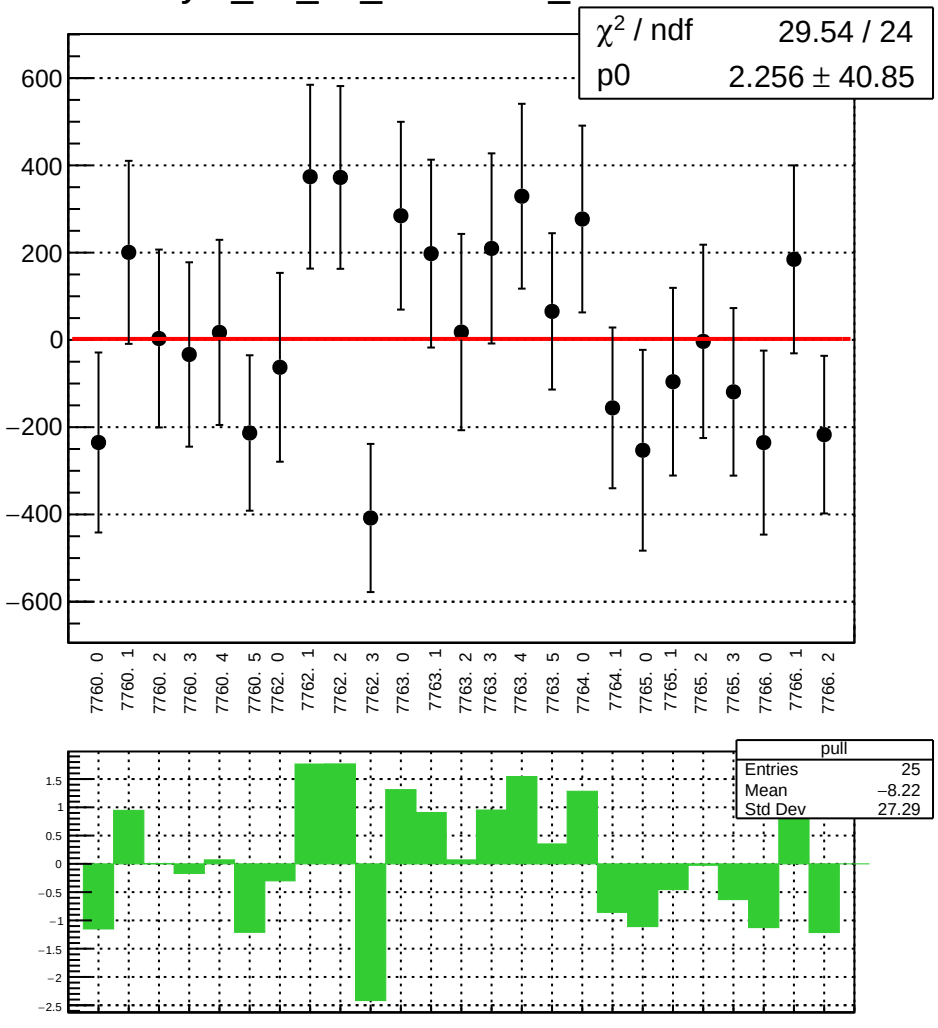

pull1D
Entries 19
Mean −0.08008
Std Dev 1.192
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

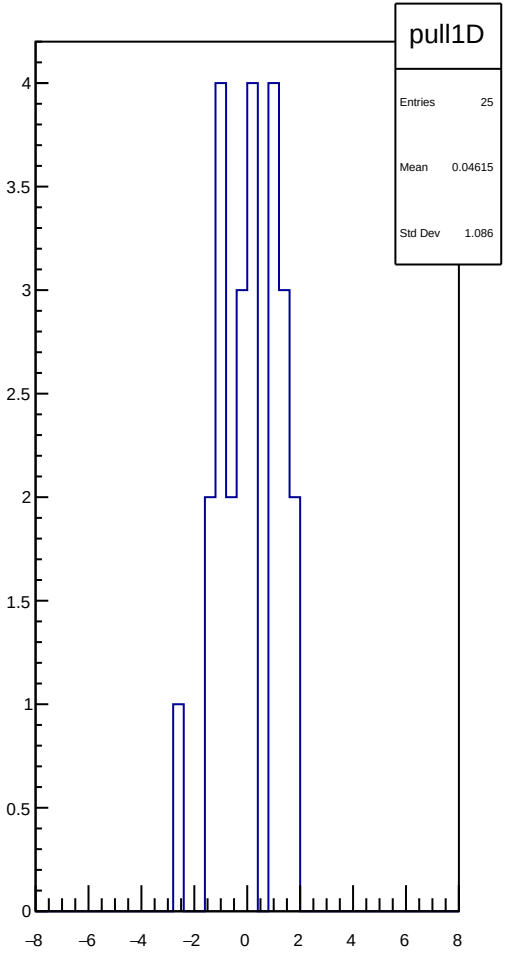

asym_atr_avg_rms vs run
×10^3
800
700
600
500
400
300
200
100
χ² / ndf 1.299e+05 / 21
p0 2021 ± 3.637
7760. 2
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

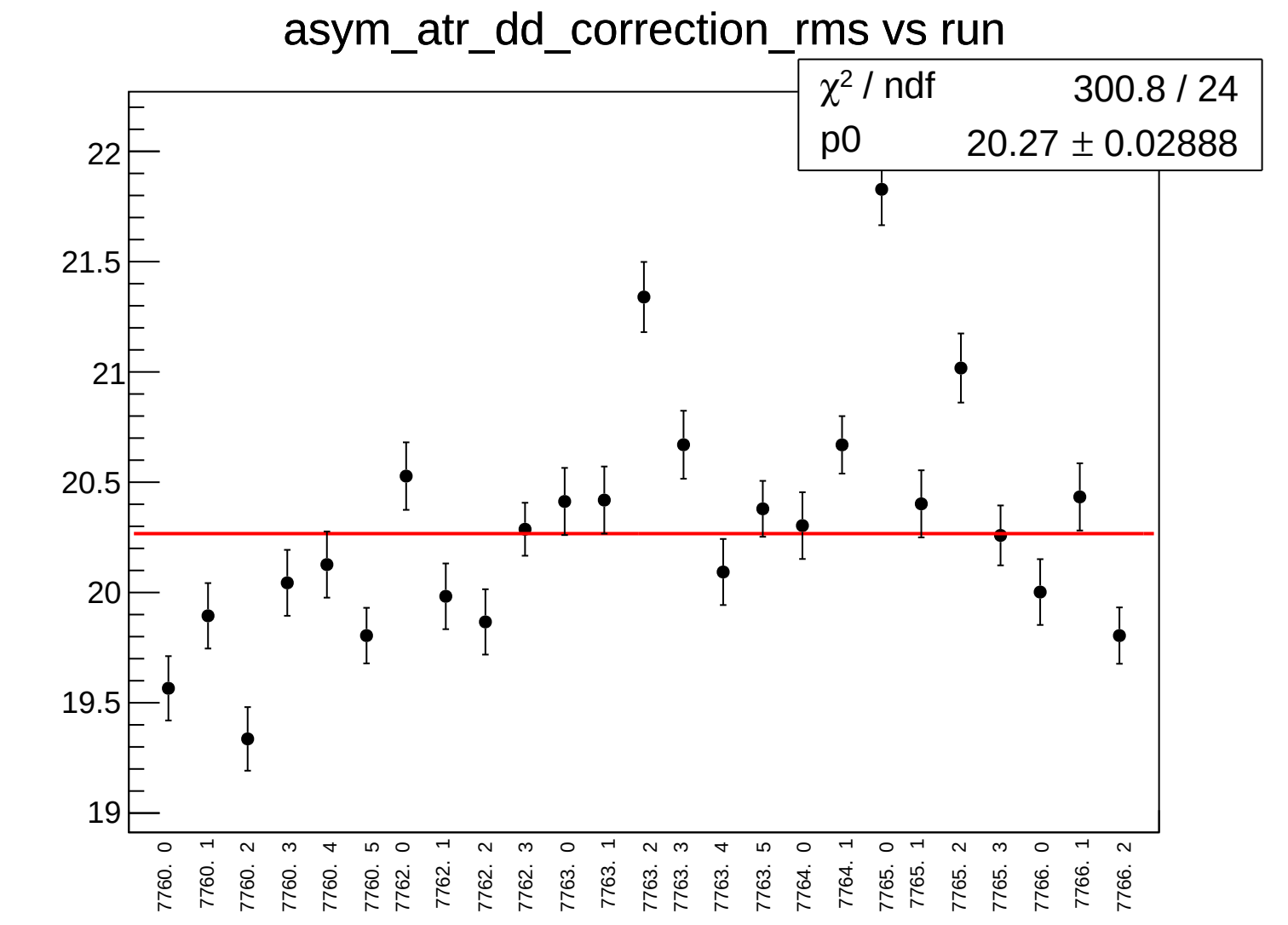

dit_asym_atr_dd_mean vs run
×10^3
χ^2 / ndf 29.93 / 18
p0 −2283 ± 4407
800
600
400
200
0
−200
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 19
Mean 8.364
Std Dev 10.53
2
1
0
−1
−2

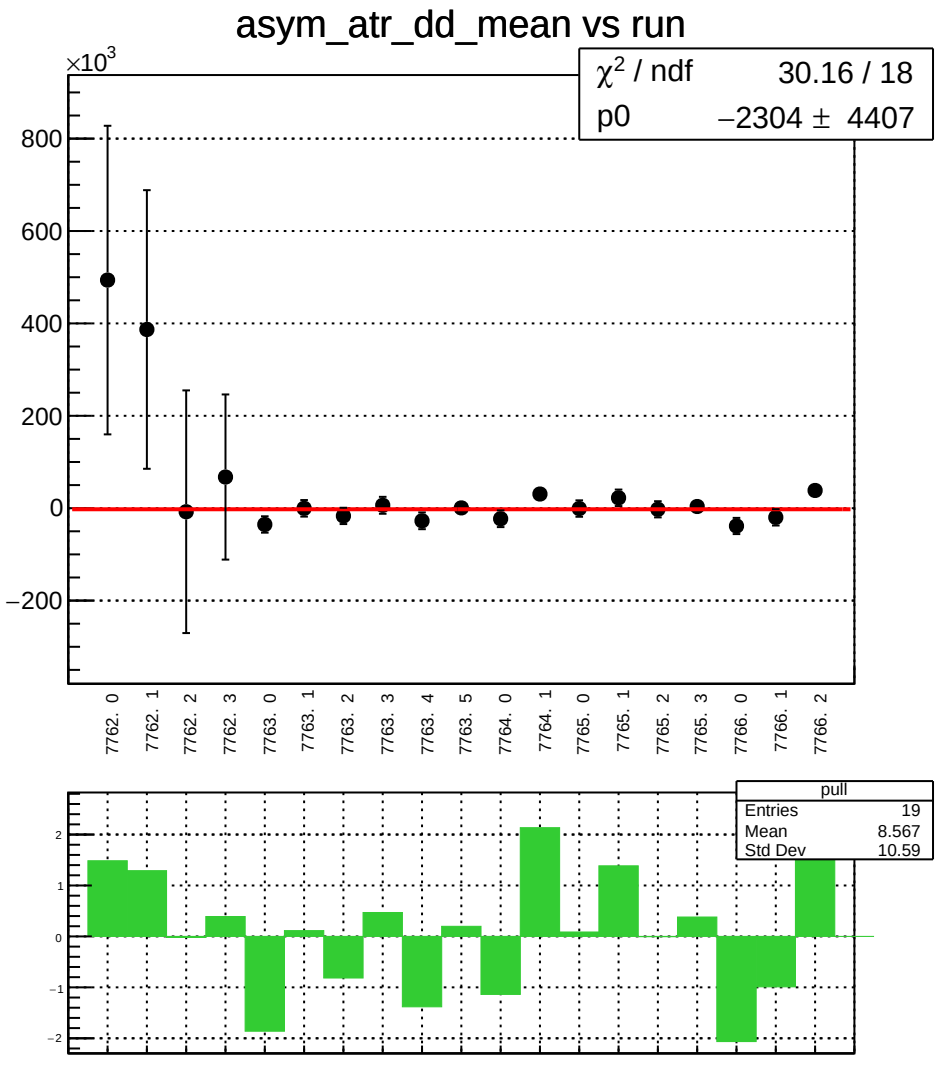

pull1D
Entries 19
Mean 0.1181
Std Dev 1.25
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

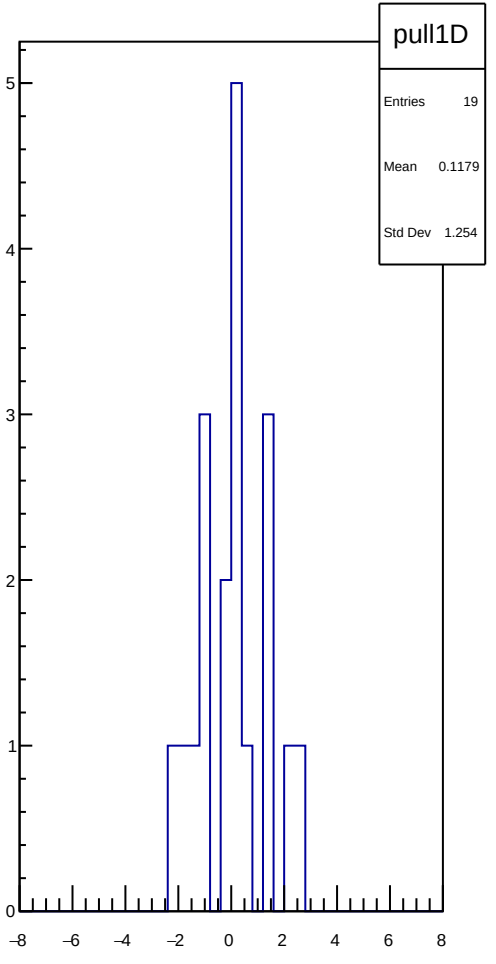

dit_asym_atr_dd_rms vs run
×10^3
800
700
600
500
400
300
200
100
χ² / ndf 1.318e+05 / 21
p0 1726 ± 3.116
7760. 2
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

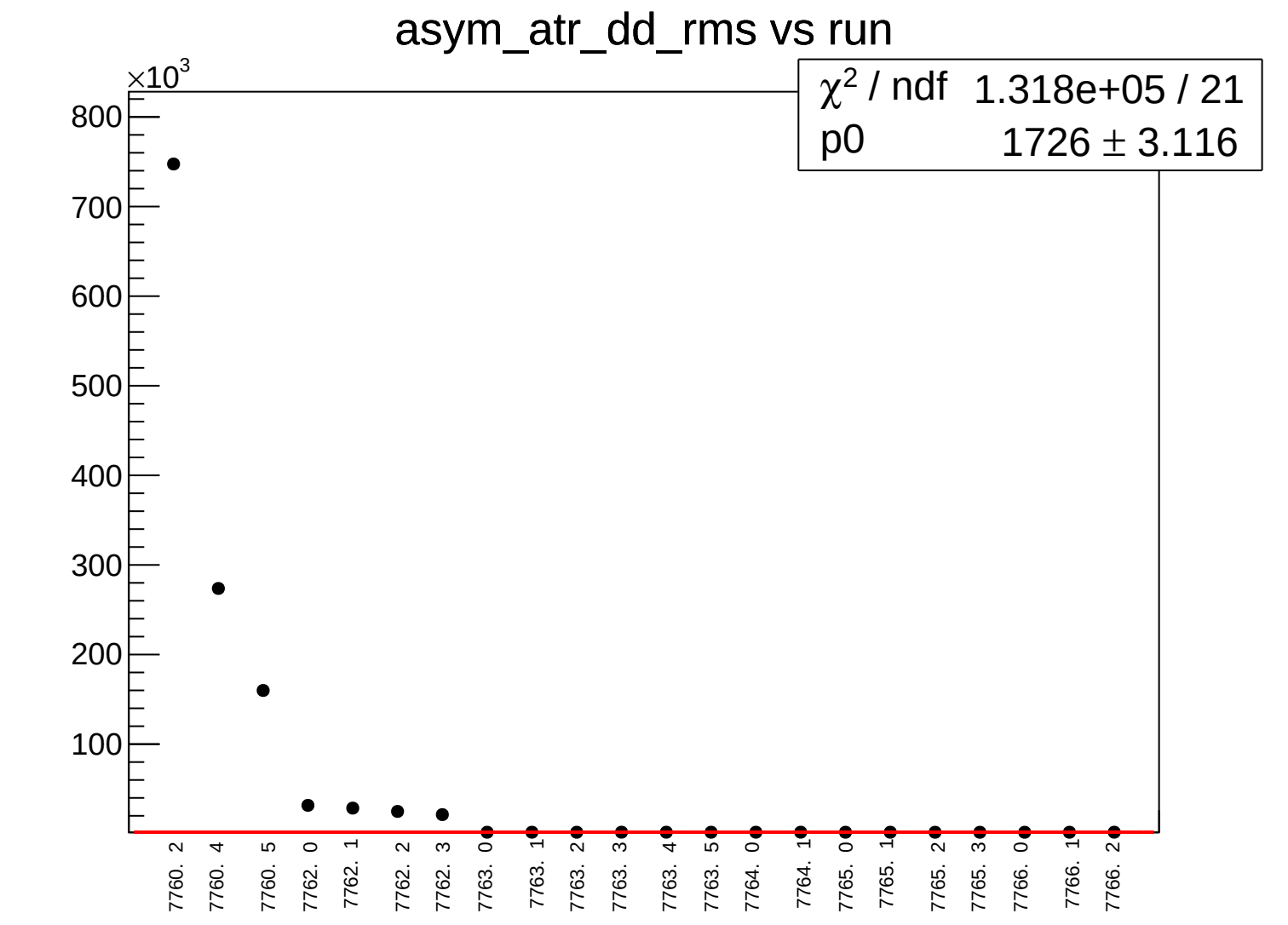

asym_atr_dd_correction_mean vs run
χ² / ndf 29.54 / 24
p0 2.256 ± 40.85
600
400
200
0
−200
−400
−600
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −8.22
Std Dev 27.29
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

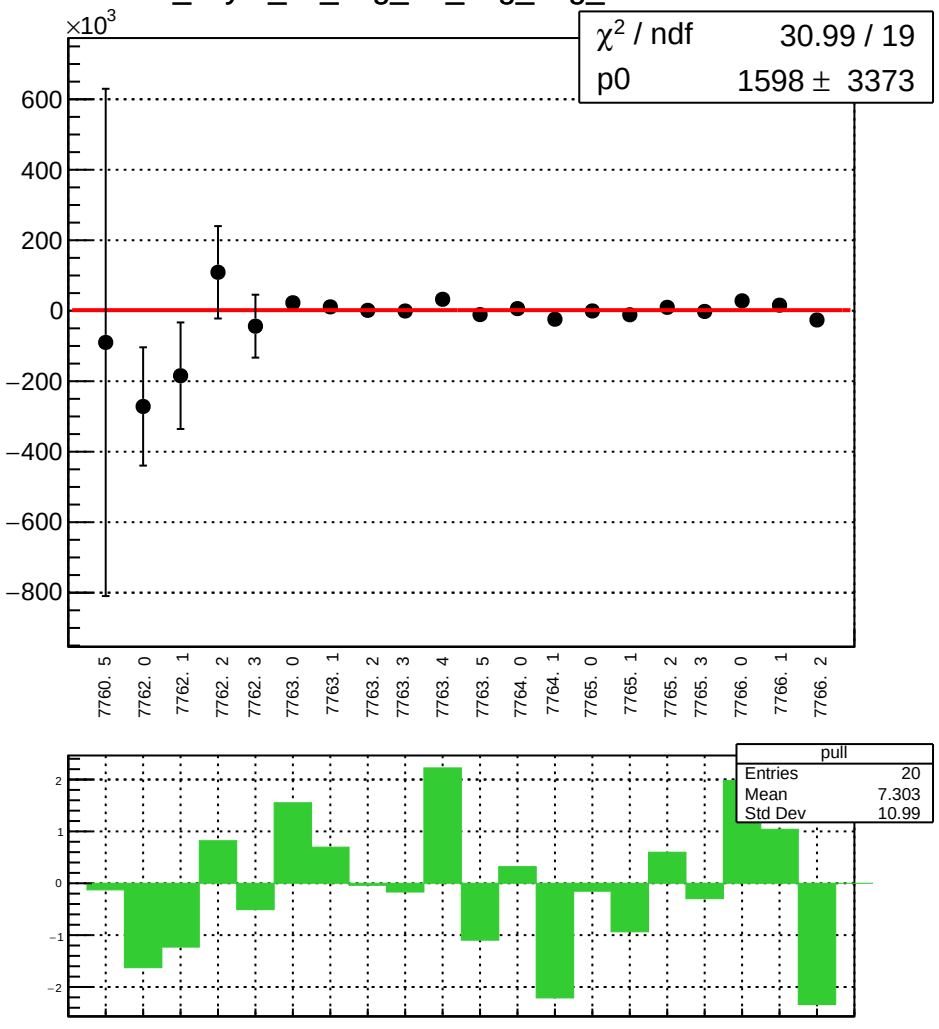

pull1D
Entries 25
Mean 0.04615
Std Dev 1.086
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

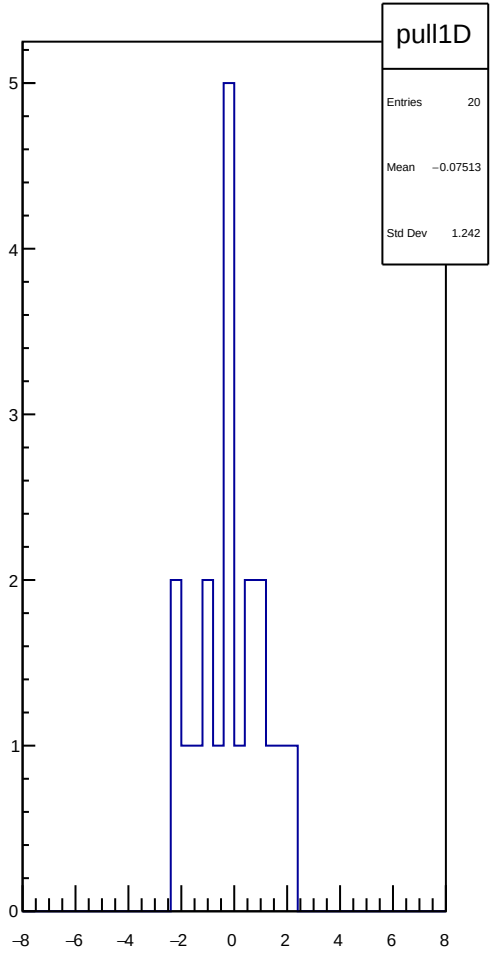

asym_atr_dd_correction_rms vs run
χ² / ndf 300.8 / 24
p0 20.27 ± 0.02888
22
21.5
21
20.5
20
19.5
19
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

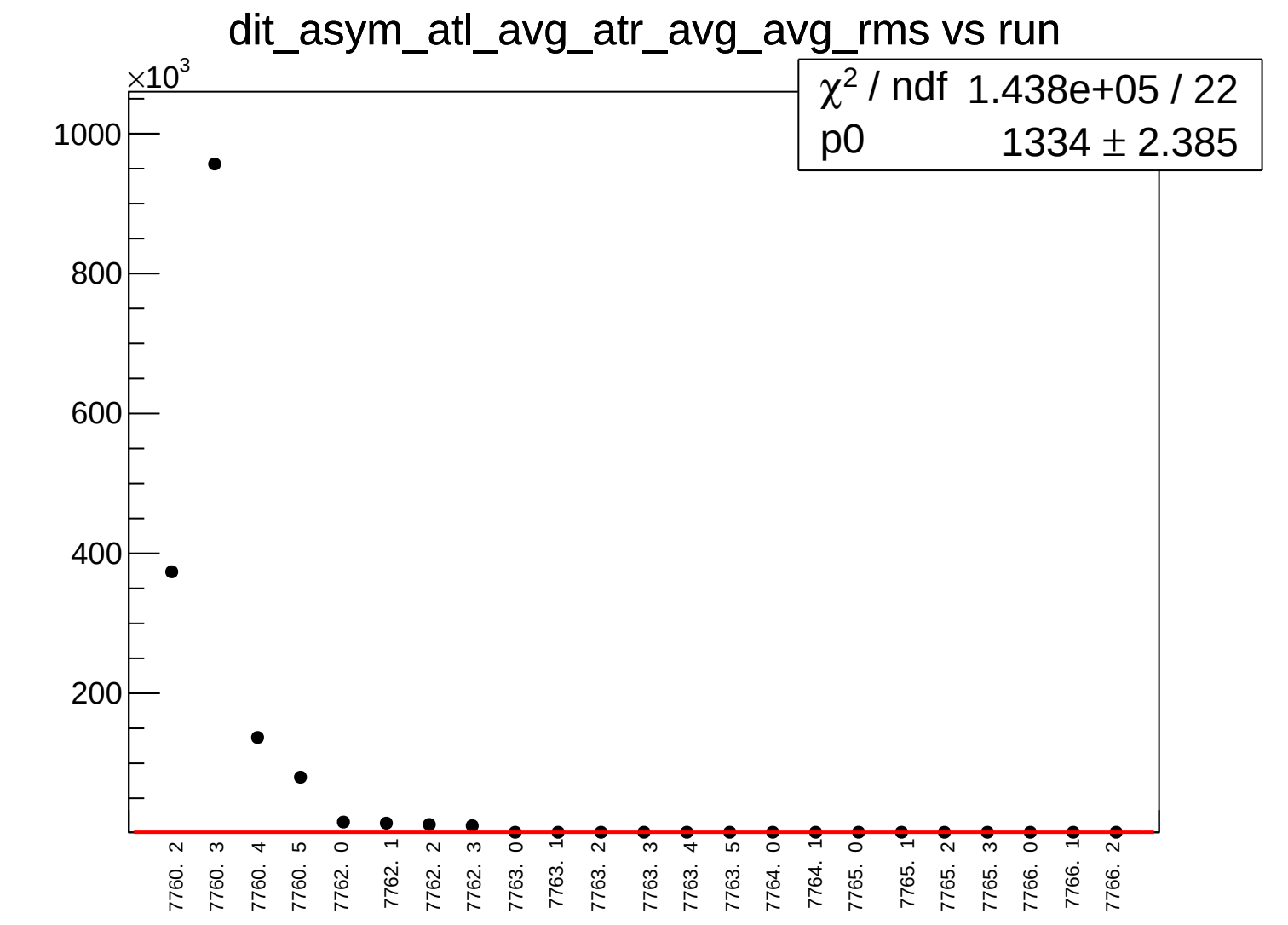

asym_atr_dd_mean vs run
×10^3
χ² / ndf 30.16 / 18
p0 −2304 ± 4407
800
600
400
200
0
−200
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 19
Mean 8.567
Std Dev 10.59
2
1
0
−1
−2

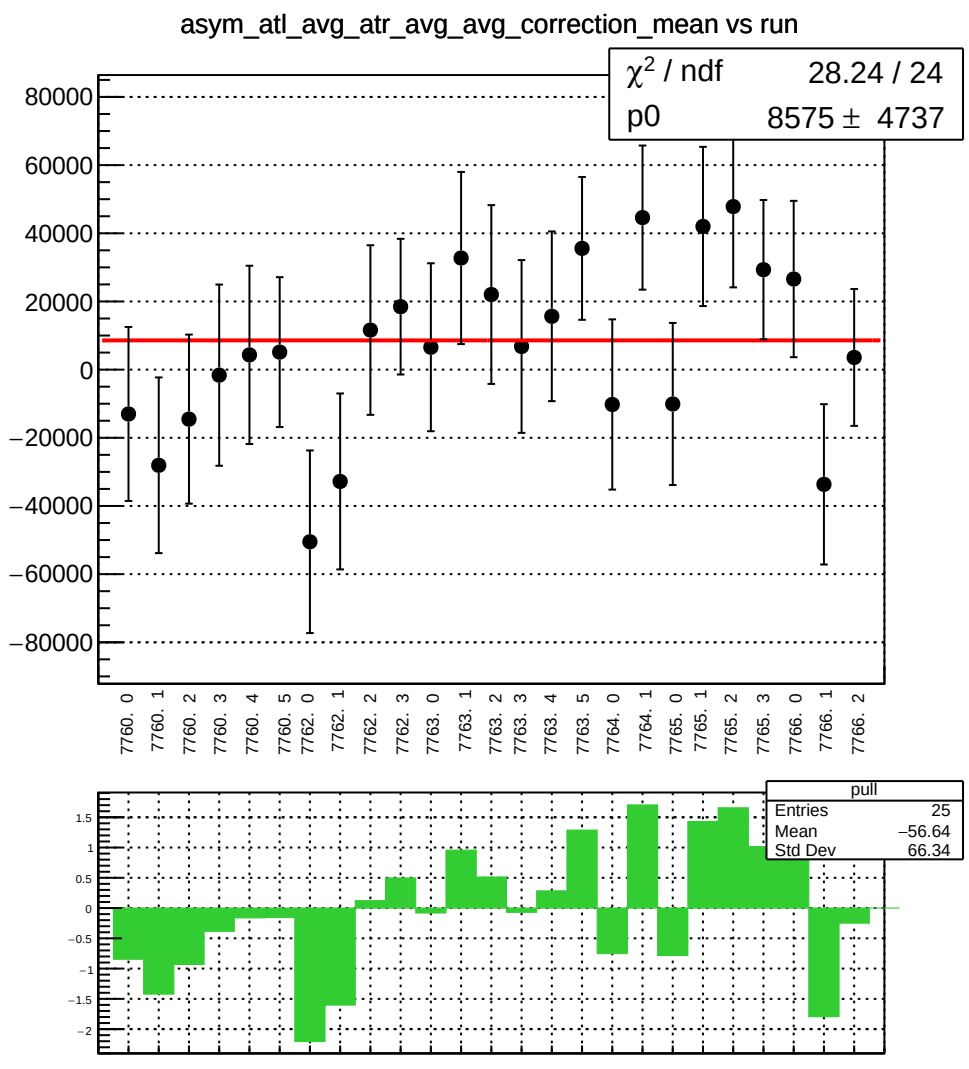

pull1D
Entries 19
Mean 0.1179
Std Dev 1.254
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

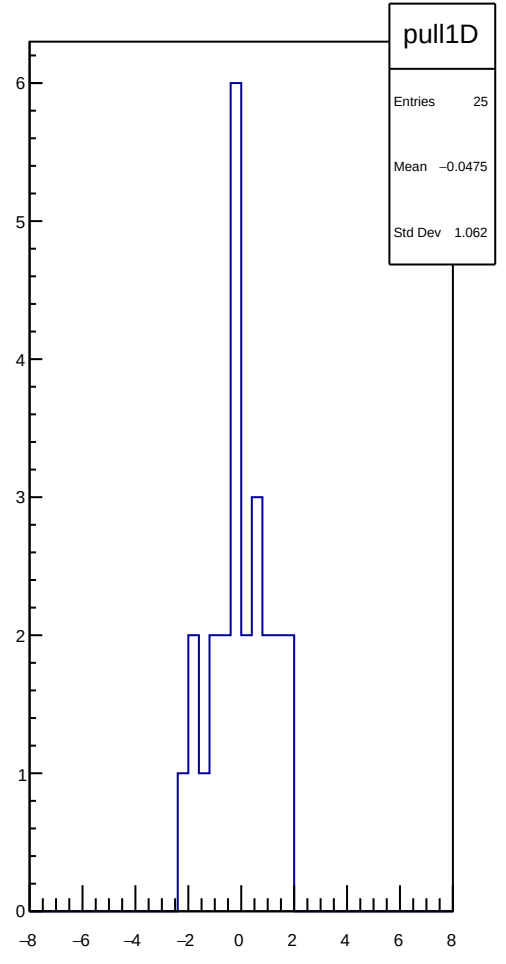

asym_atr_dd_rms vs run
×10^3
800
700
600
500
400
300
200
100
χ² / ndf 1.318e+05 / 21
p0 1726 ± 3.116
7760. 2
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

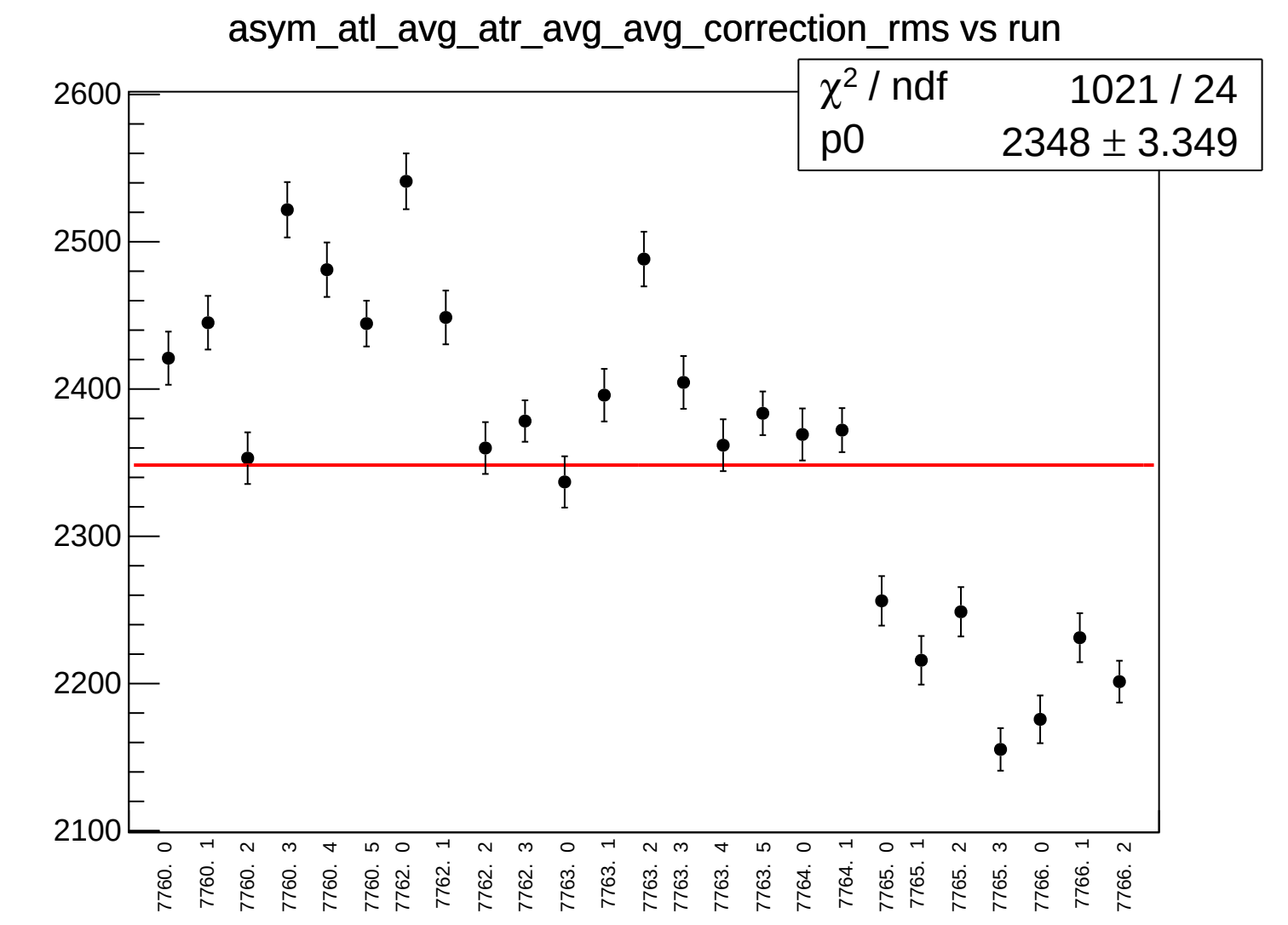

dit_asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ^2 / ndf 30.99 / 19
p0 1598 ± 3373
600
400
200
0
−200
−400
−600
−800
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 20
Mean 7.303
Std Dev 10.99
2
1
0
−1
−2

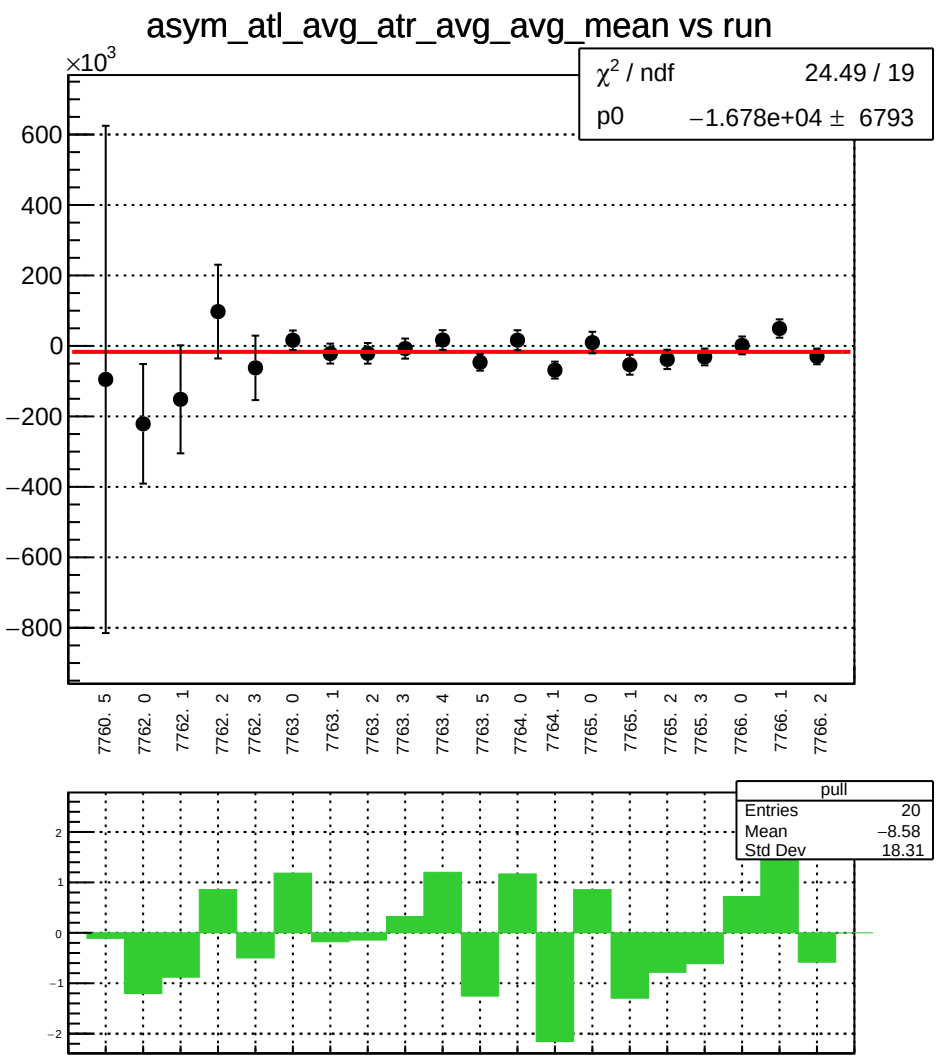

pull1D
Entries 20
Mean −0.07513
Std Dev 1.242
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

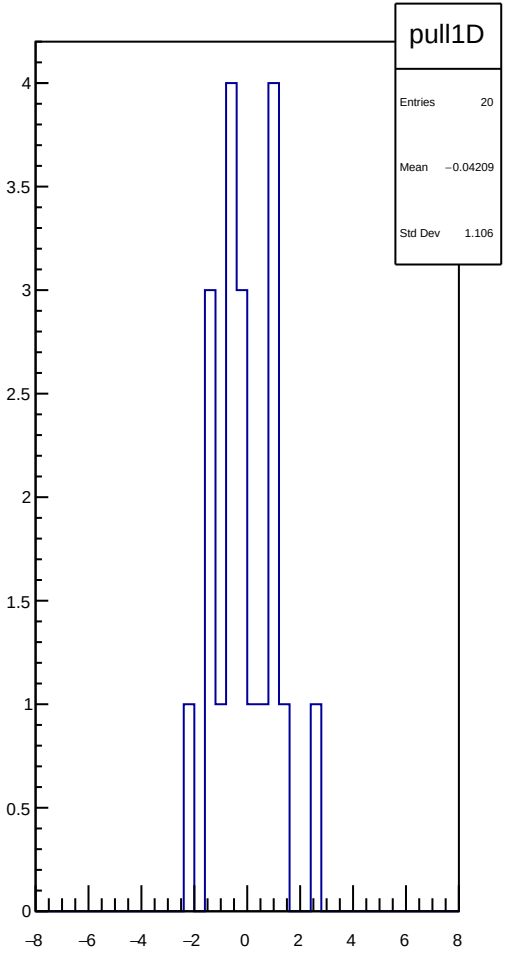

dit_asym_atl_avg_atr_avg_avg_rms vs run
×10^3
1000
800
600
400
200
χ² / ndf 1.438e+05 / 22
p0 1334 ± 2.385
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

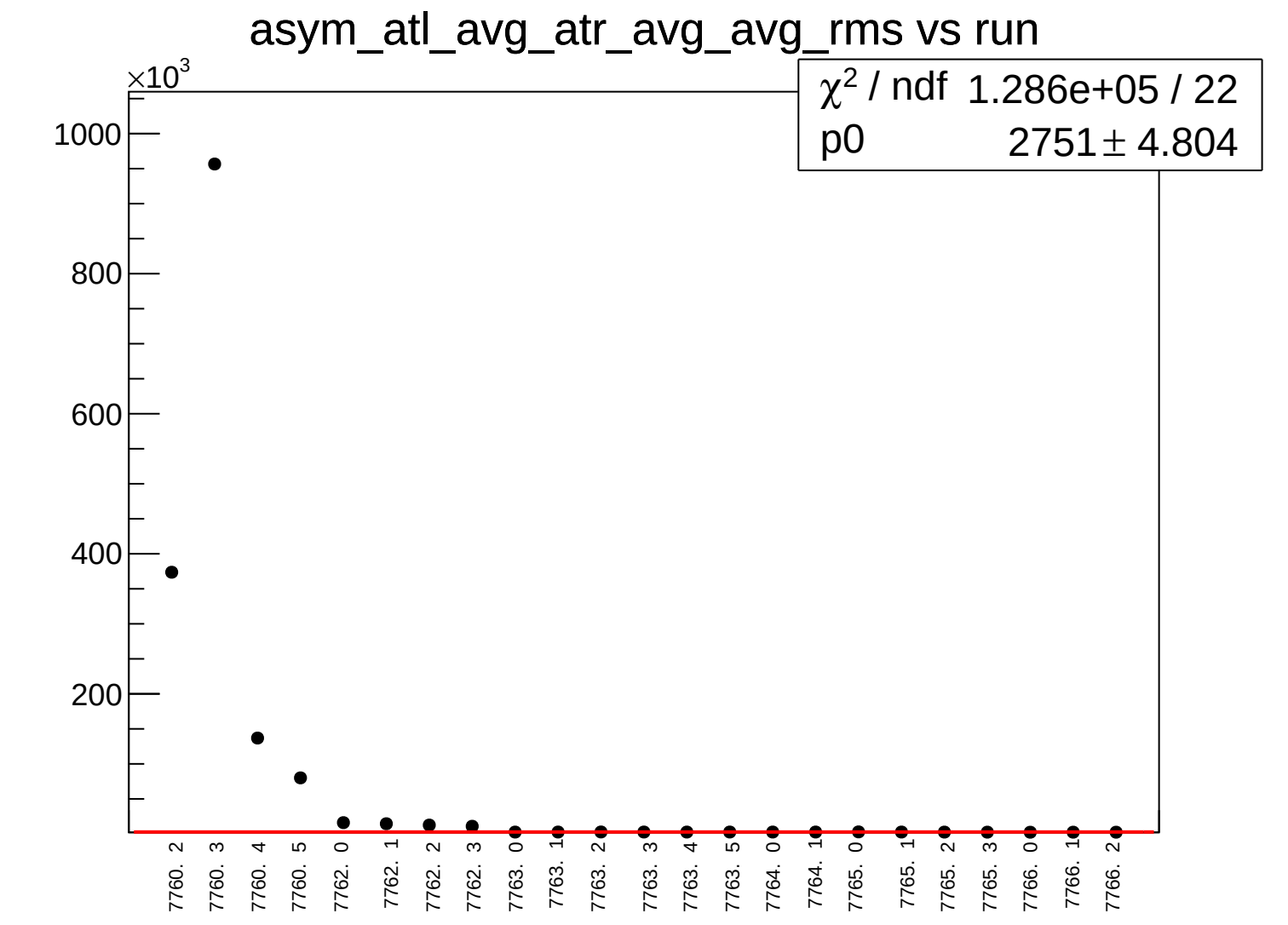

asym_atl_avg_atr_avg_avg_correction_mean vs run
χ² / ndf 28.24 / 24
p0 8575 ± 4737
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −56.64
Std Dev 66.34
1.5
1
0.5
0
−0.5
−1
−1.5
−2

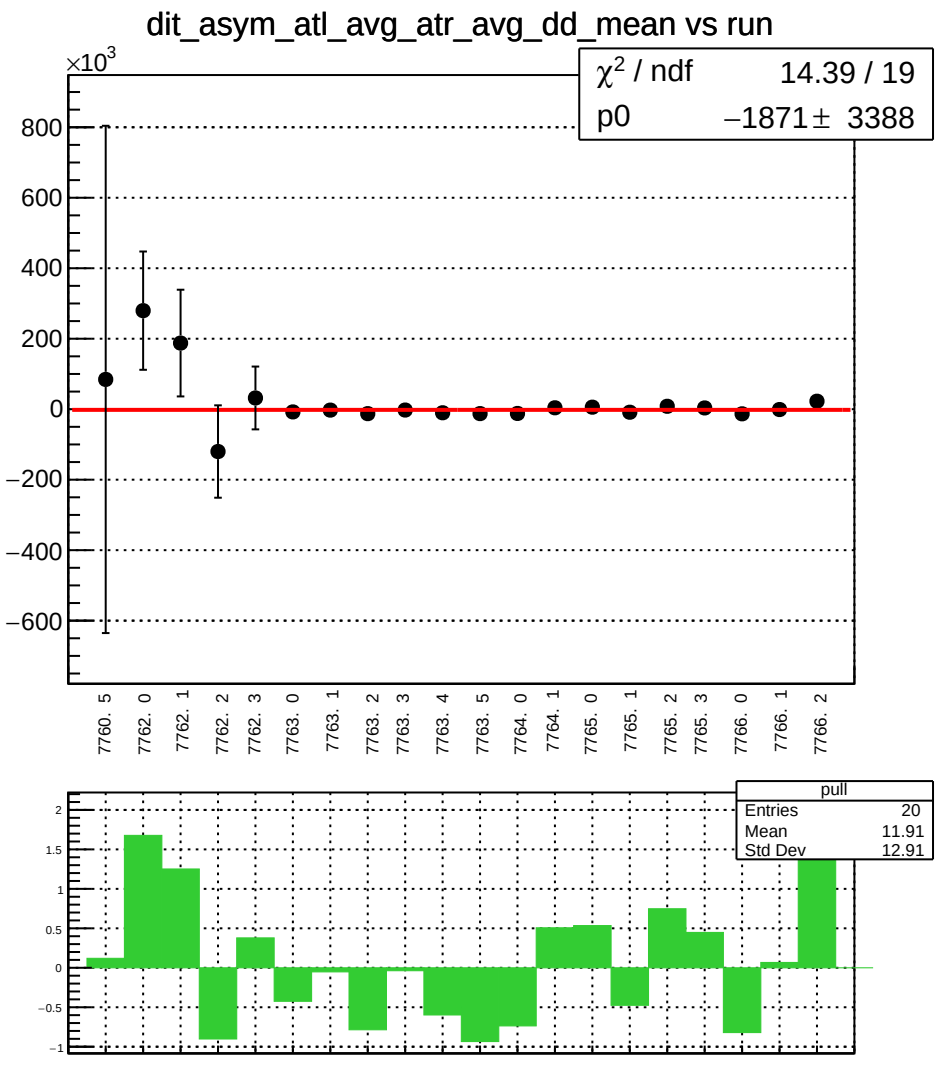

pull1D
Entries 25
Mean −0.0475
Std Dev 1.062
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

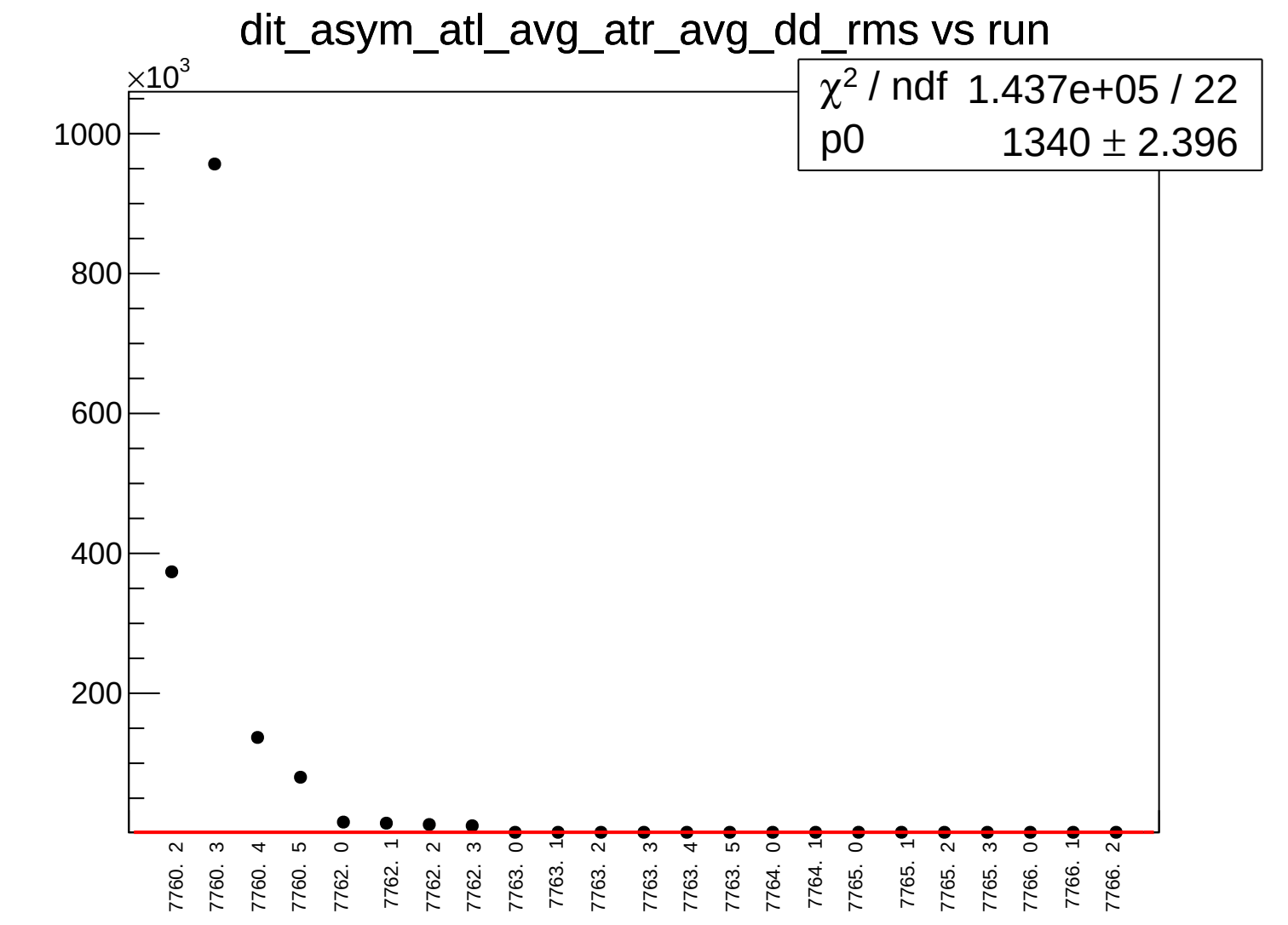

asym_atl_avg_atr_avg_avg_correction_rms vs run
χ² / ndf 1021 / 24
p0 2348 ± 3.349
2600
2500
2400
2300
2200
2100
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

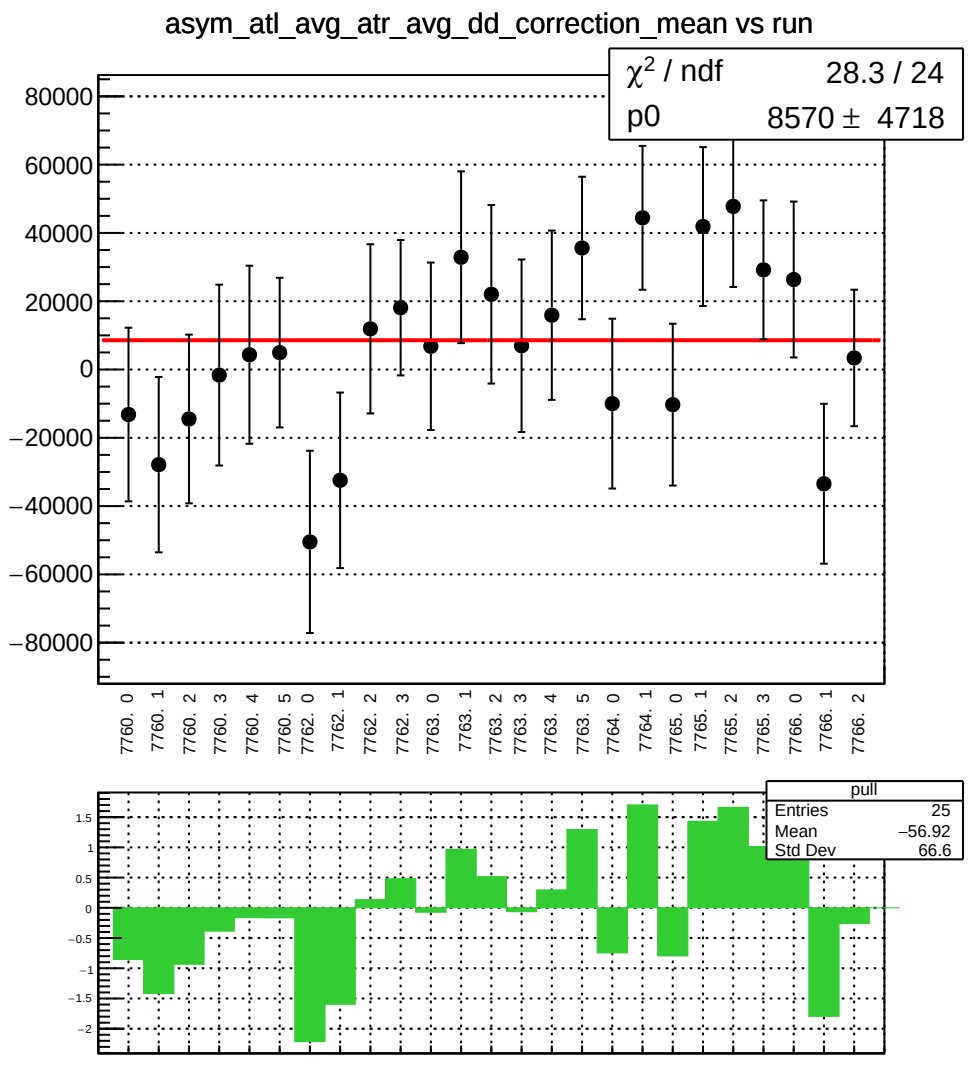

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 24.49 / 19
p0 −1.678e+04 ± 6793
600
400
200
0
−200
−400
−600
−800
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 20
Mean −8.58
Std Dev 18.31
2
1
0
−1
−2

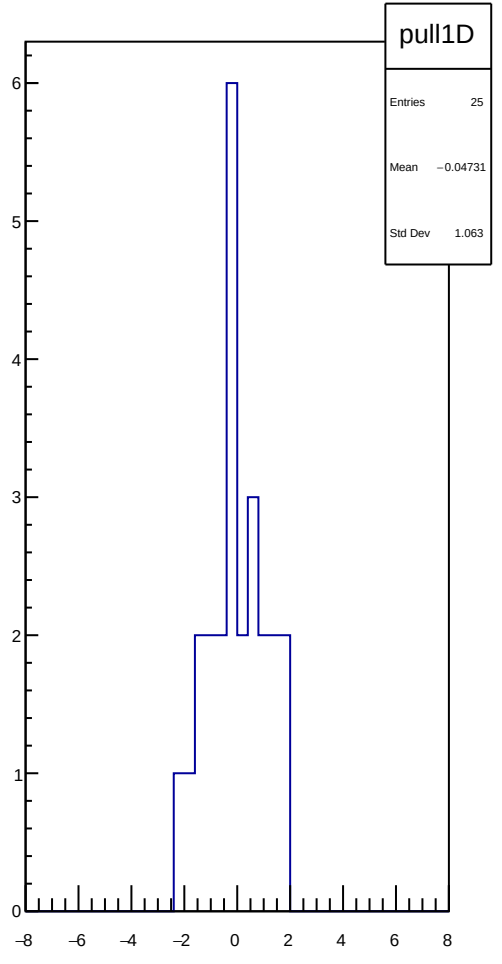

pull1D
Entries 20
Mean −0.04209
Std Dev 1.106
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

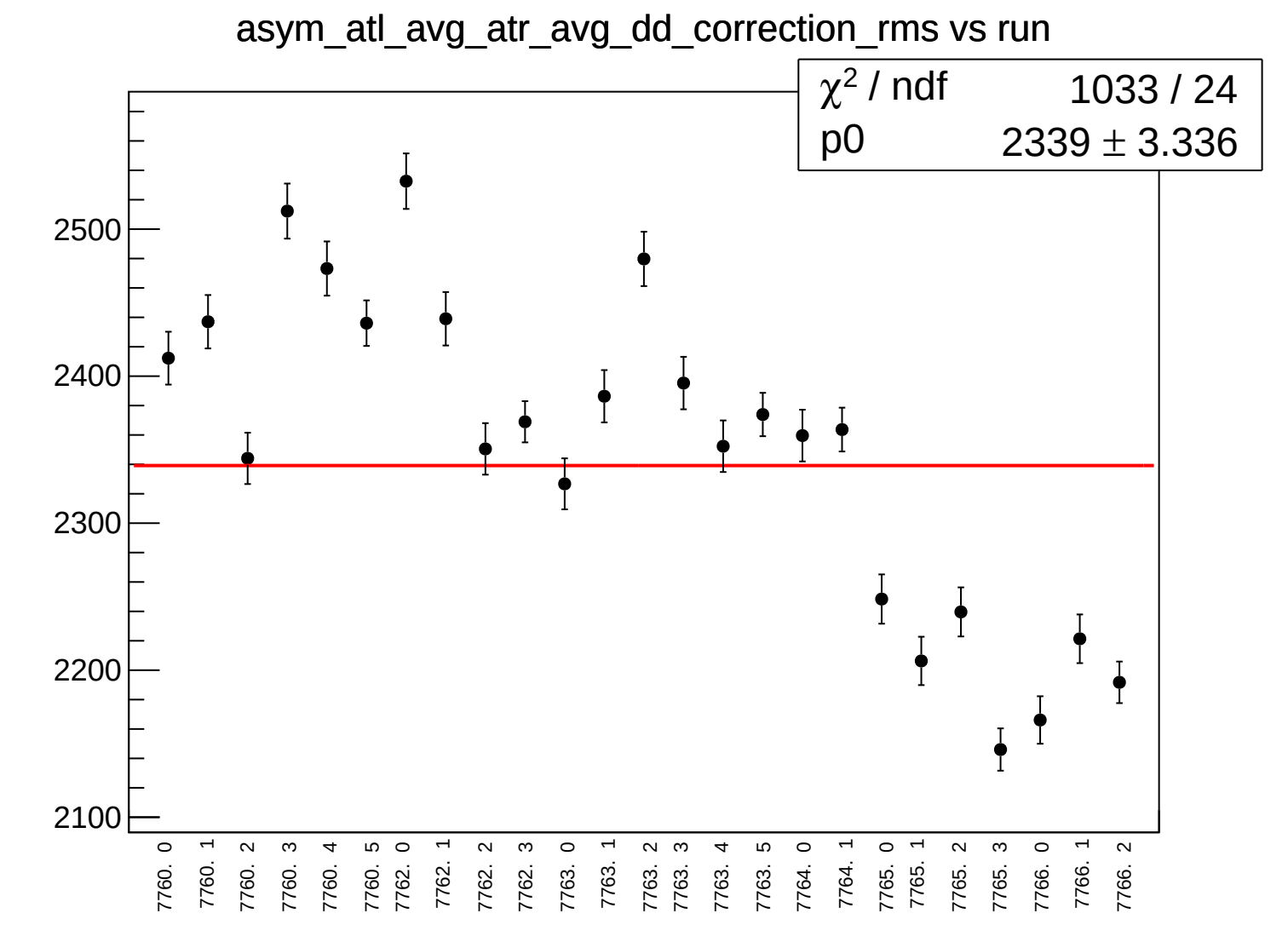

asym_atl_avg_atr_avg_avg_rms vs run
×10^3
1000
800
600
400
200
χ² / ndf 1.286e+05 / 22
p0 2751 ± 4.804
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

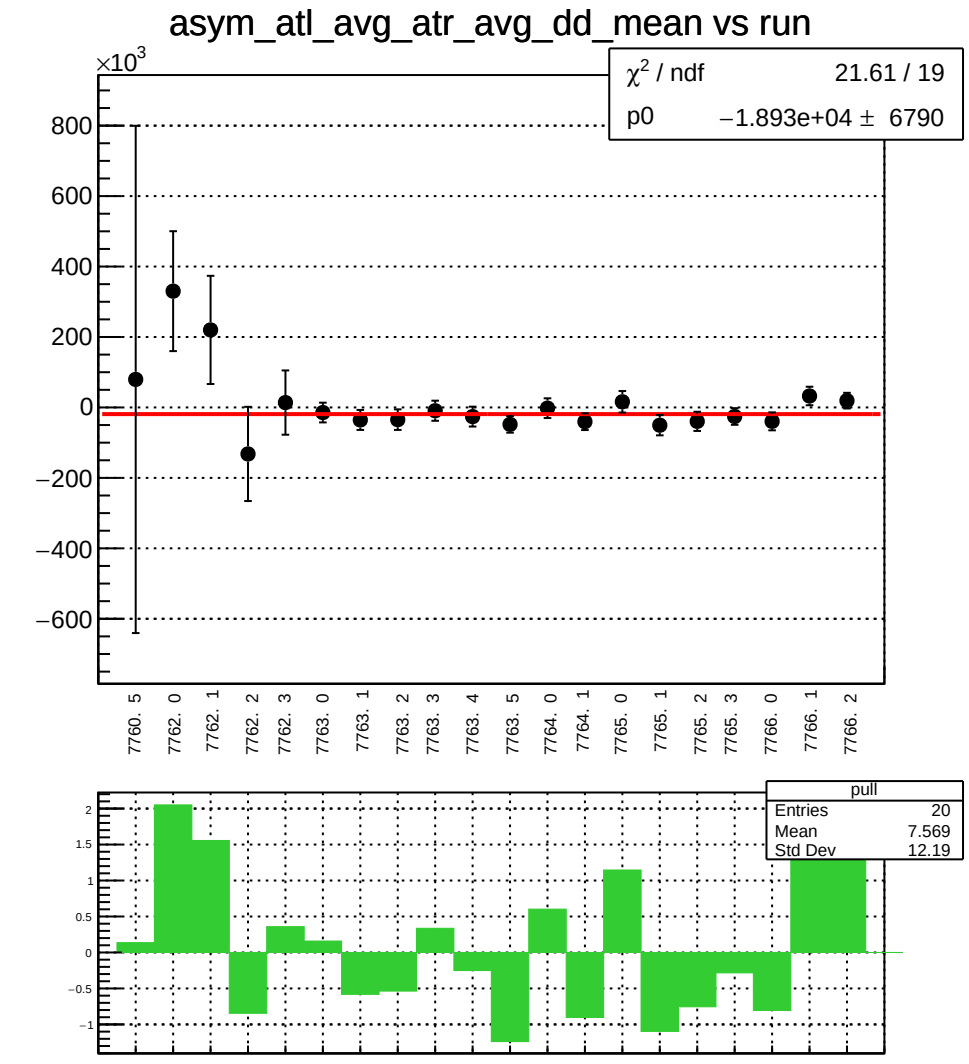

dit_asym_atl_avg_atr_avg_dd_mean vs run
×10^3
χ² / ndf 14.39 / 19
p0 −1871 ± 3388
800
600
400
200
0
−200
−400
−600
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 20
Mean 11.91
Std Dev 12.91
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean 0.1016
Std Dev 0.8421
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

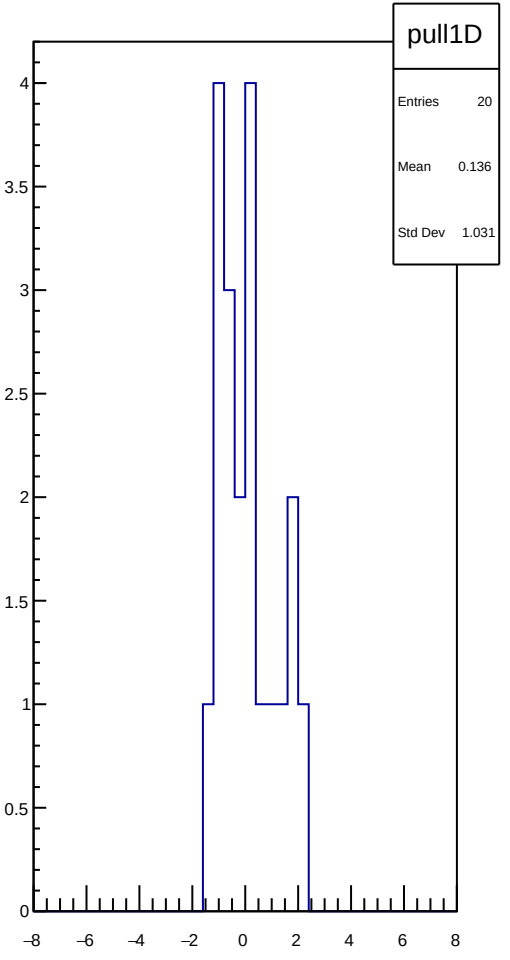

dit_asym_atl_avg_atr_avg_dd_rms vs run
×10^3
1000
800
600
400
200
χ² / ndf 1.437e+05 / 22
p0 1340 ± 2.396
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

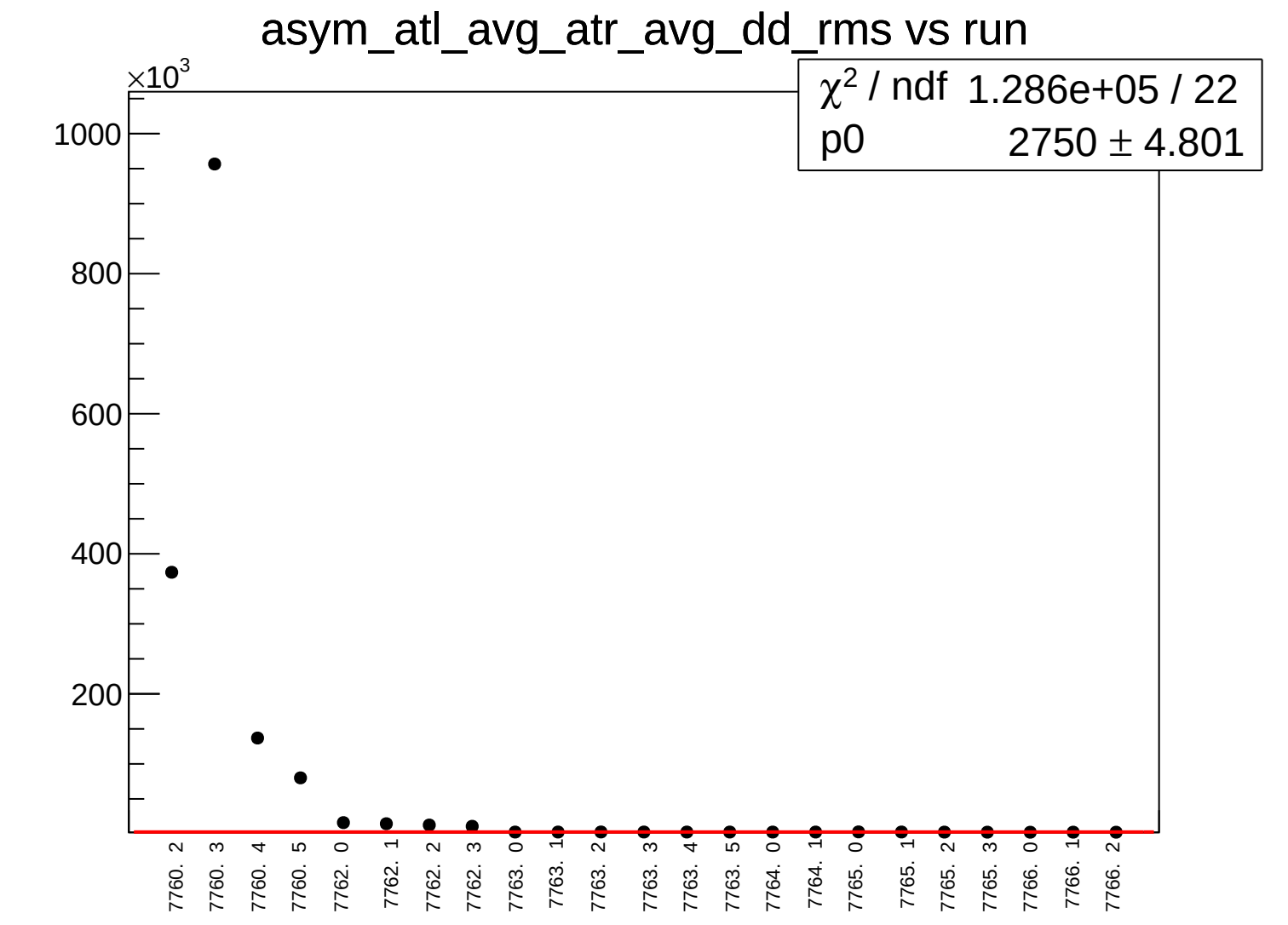

asym_atl_avg_atr_avg_dd_correction_mean vs run
χ² / ndf 28.3 / 24
p0 8570 ± 4718
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −56.92
Std Dev 66.6
1.5
1
0.5
0
−0.5
−1
−1.5
−2

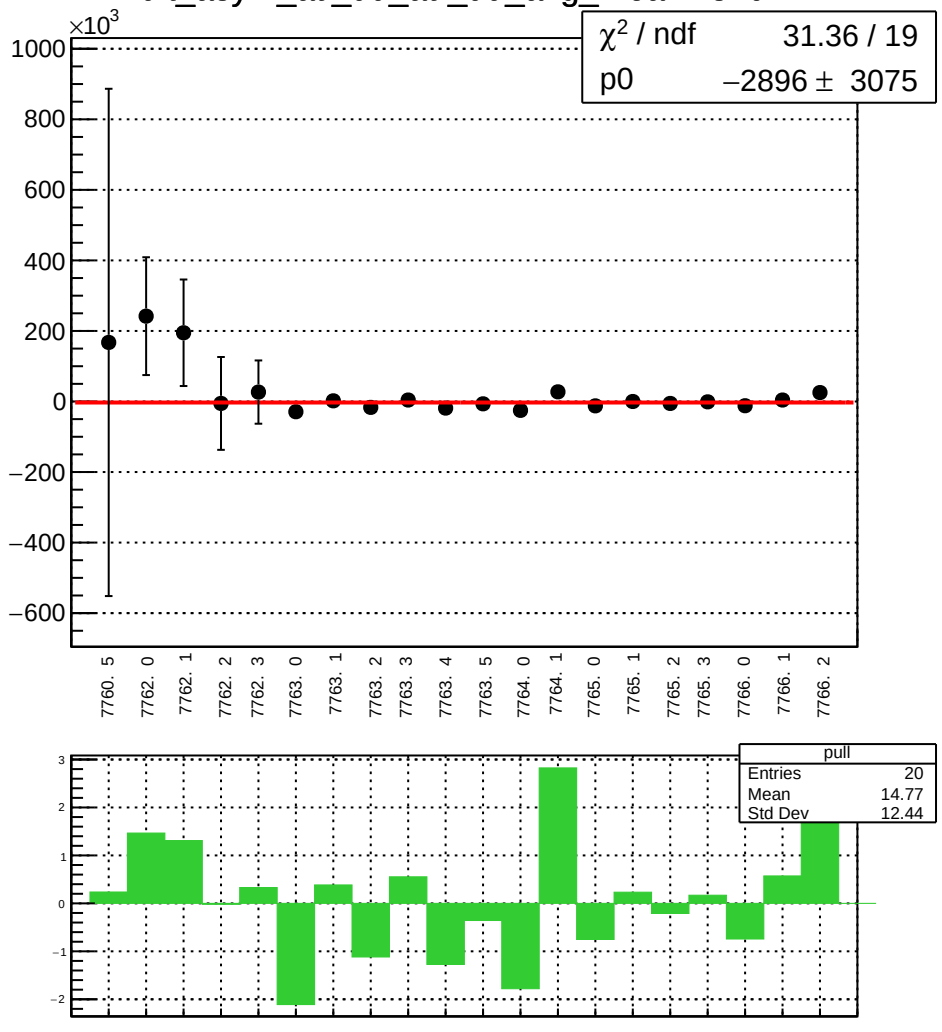

pull1D
Entries 25
Mean −0.04731
Std Dev 1.063
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

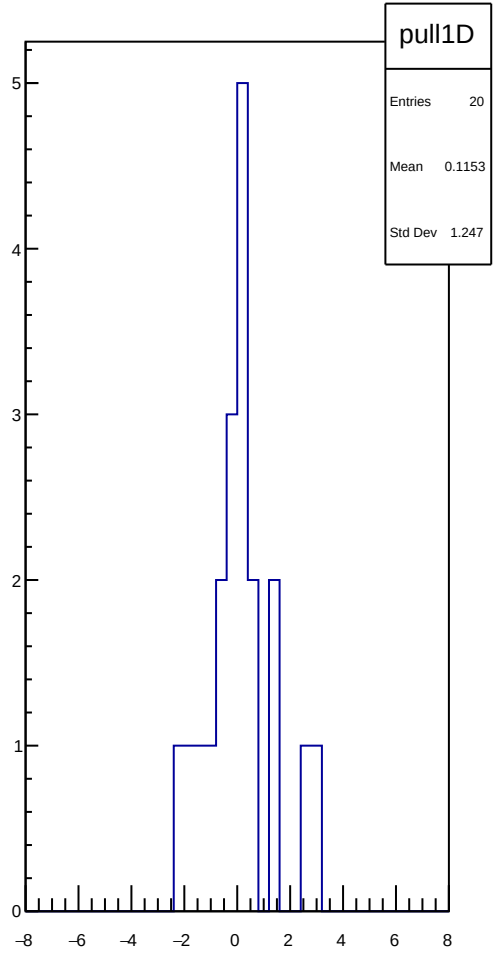

asym_atl_avg_atr_avg_dd_correction_rms vs run
χ² / ndf 1033 / 24
p0 2339 ± 3.336
2500
2400
2300
2200
2100
17760. 0
17760. 1
17760. 2
17760. 3
17760. 4
17760. 5
17762. 0
17762. 1
17762. 2
17762. 3
17763. 0
17763. 1
17763. 2
17763. 3
17763. 4
17763. 5
17764. 0
17764. 1
17765. 0
17765. 1
17765. 2
17765. 3
17766. 0
17766. 1
17766. 2

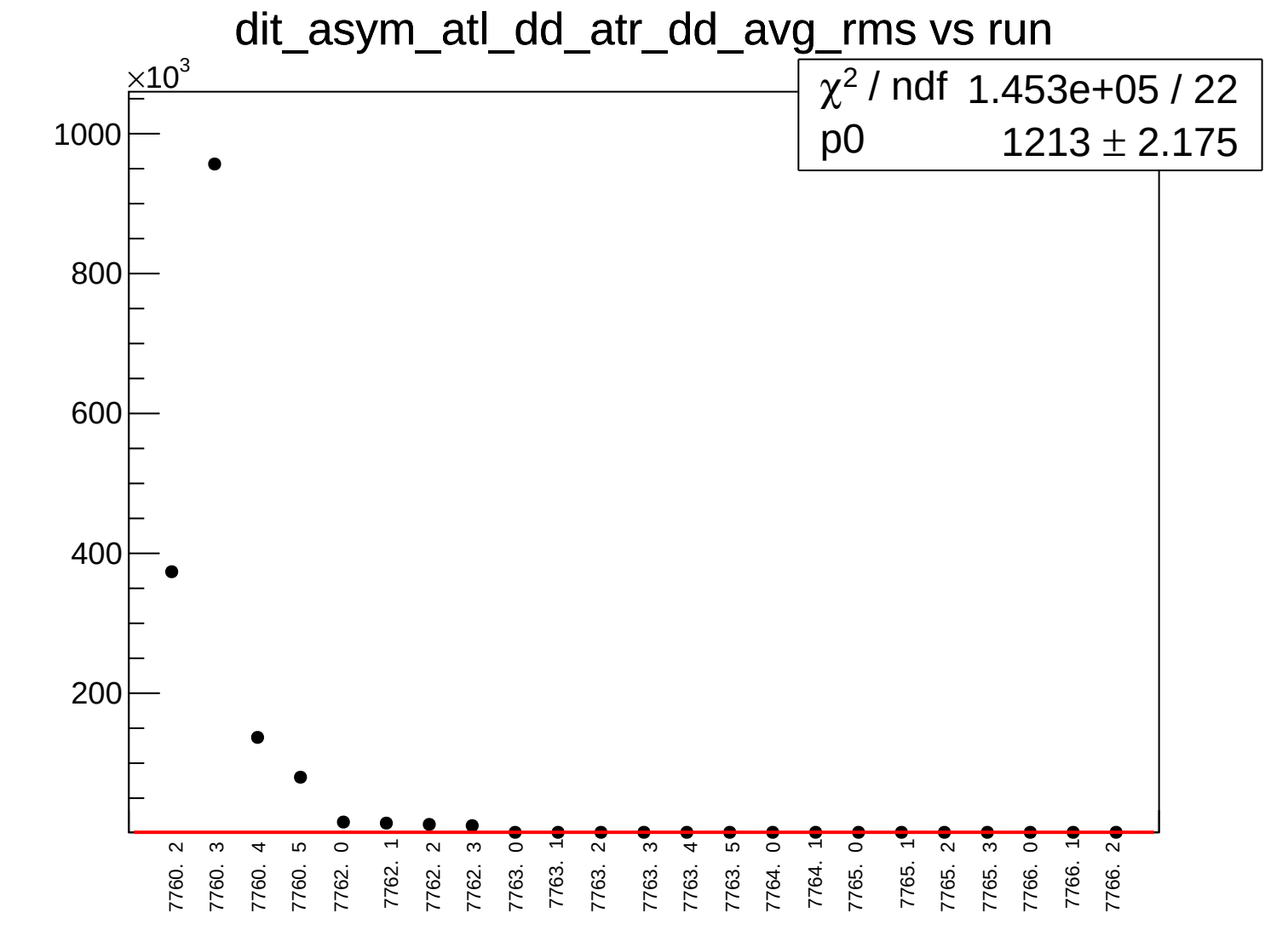

asym_atl_avg_atr_avg_dd_mean vs run
×10^3
χ² / ndf 21.61 / 19
p0 −1.893e+04 ± 6790
800
600
400
200
0
−200
−400
−600
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 20
Mean 7.569
Std Dev 12.19
2
1.5
1
0.5
0
−0.5
−1

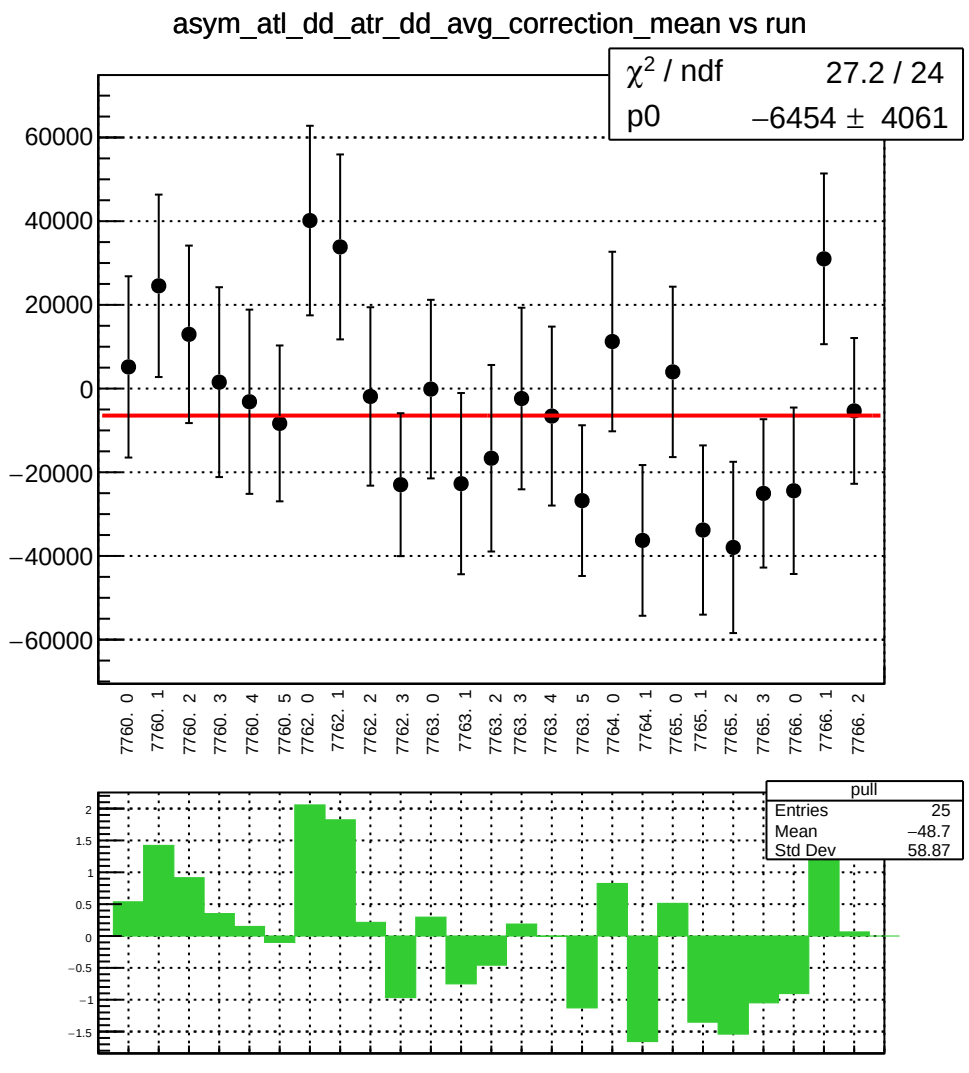

pull1D
Entries 20
Mean 0.136
Std Dev 1.031
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

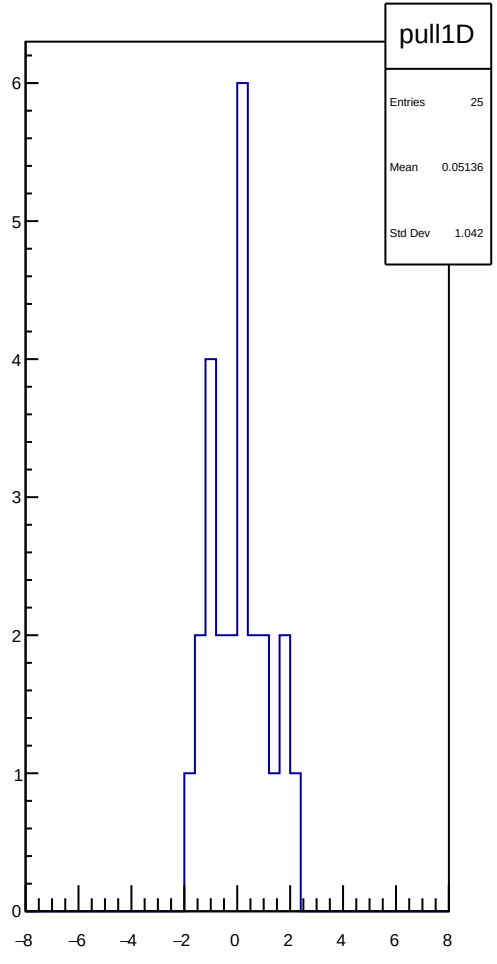

asym_atl_avg_atr_avg_dd_rms vs run
×10^3
1000
800
600
400
200
χ² / ndf 1.286e+05 / 22
p0 2750 ± 4.801
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

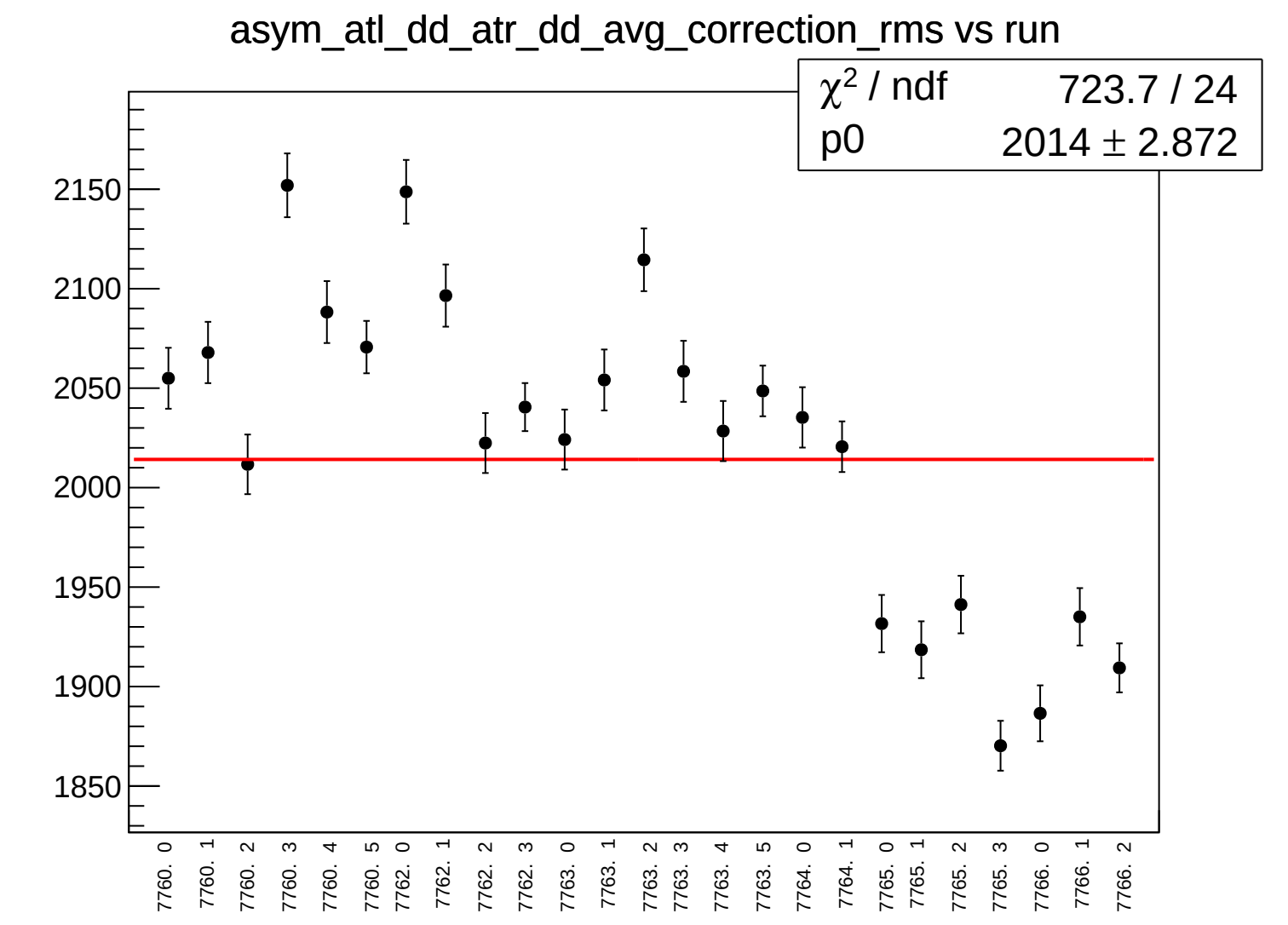

dit_asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ^2 / ndf 31.36 / 19
p0 −2896 ± 3075
1000
800
600
400
200
0
−200
−400
−600
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 20
Mean 14.77
Std Dev 12.44
3
2
1
0
−1
−2

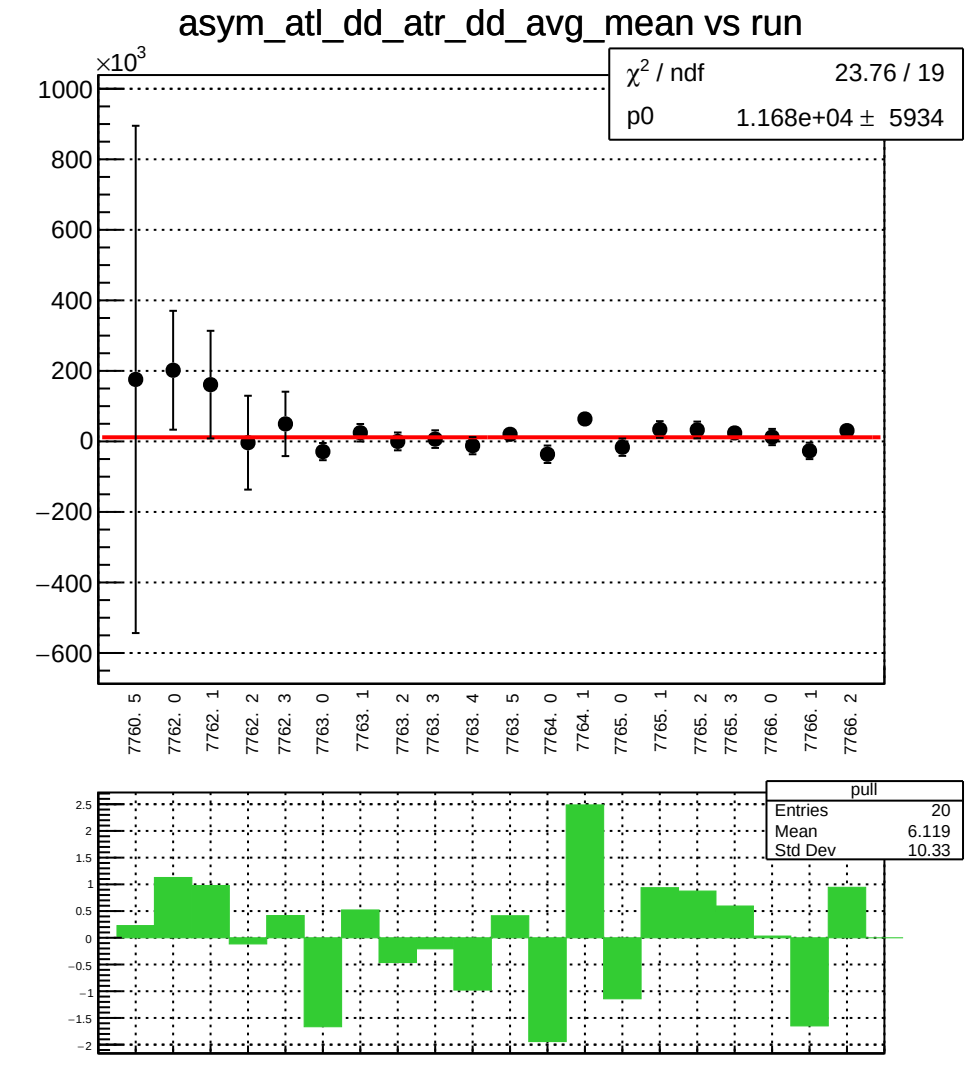

pull1D
Entries 20
Mean 0.1153
Std Dev 1.247
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

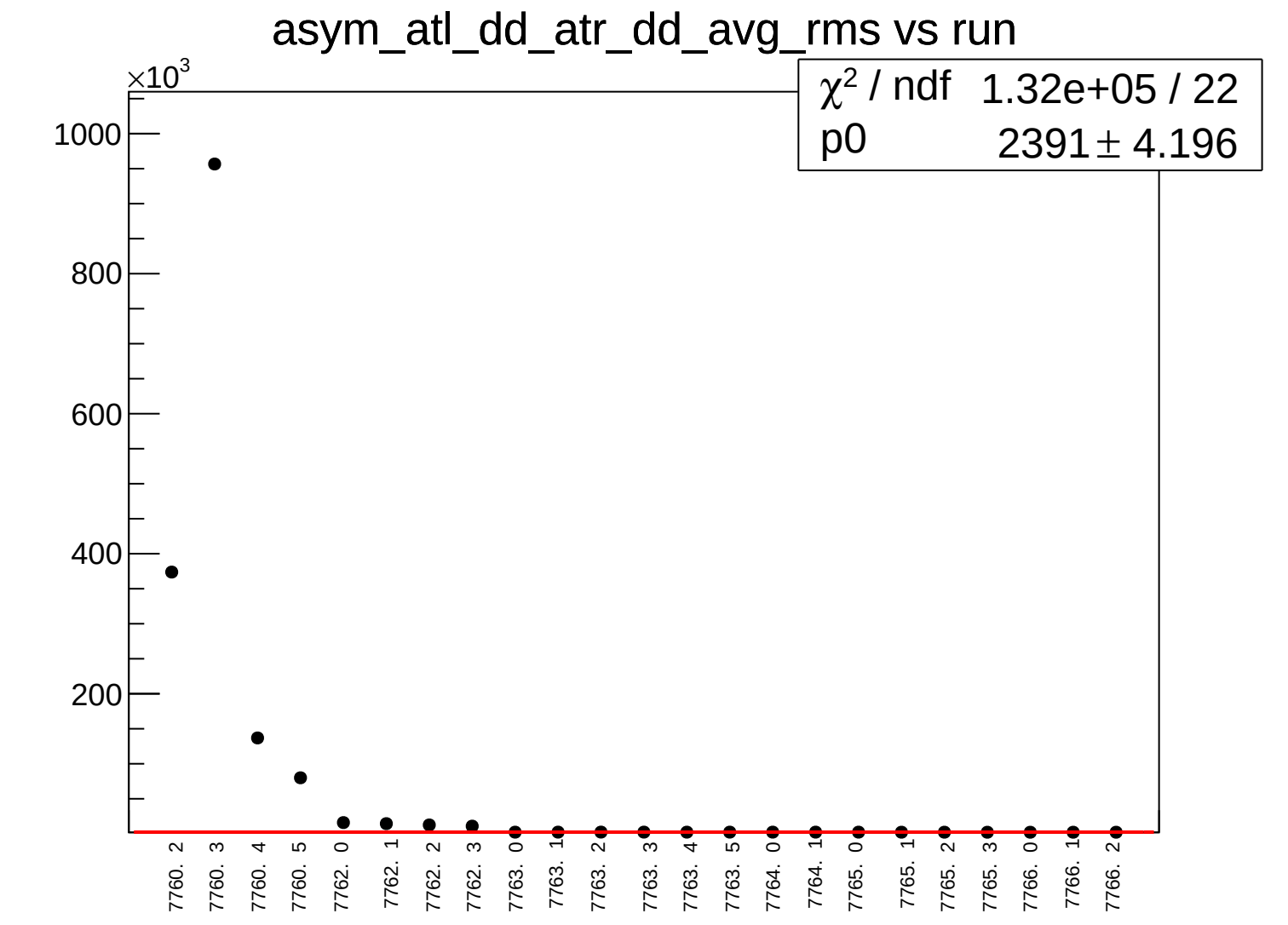

dit_asym_atl_dd_atr_dd_avg_rms vs run
×10^3
1000
800
600
400
200
χ² / ndf 1.453e+05 / 22
p0 1213 ± 2.175
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

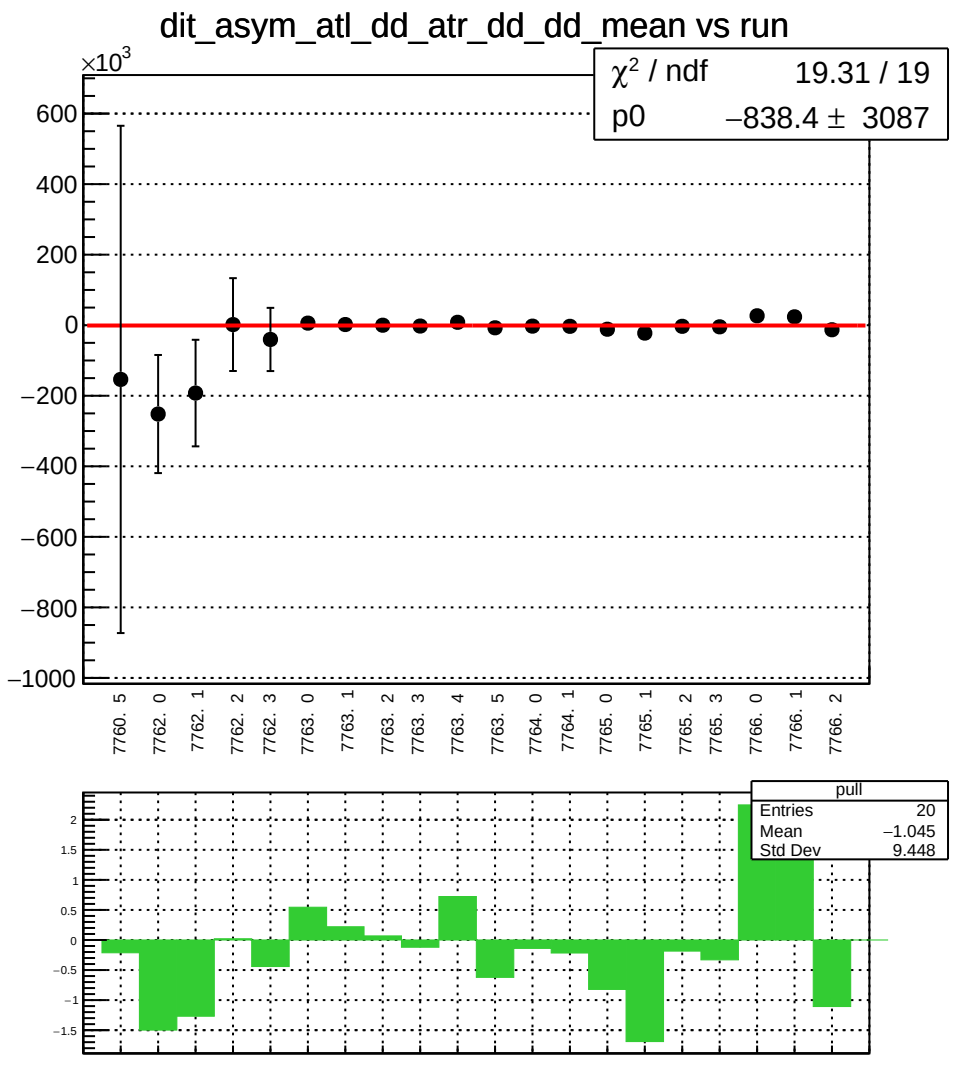

asym_atl_dd_atr_dd_avg_correction_mean vs run
χ² / ndf 27.2 / 24
p0 −6454 ± 4061
60000
40000
20000
0
−20000
−40000
−60000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −48.7
Std Dev 58.87
2
1.5
1
0.5
0
−0.5
−1
−1.5

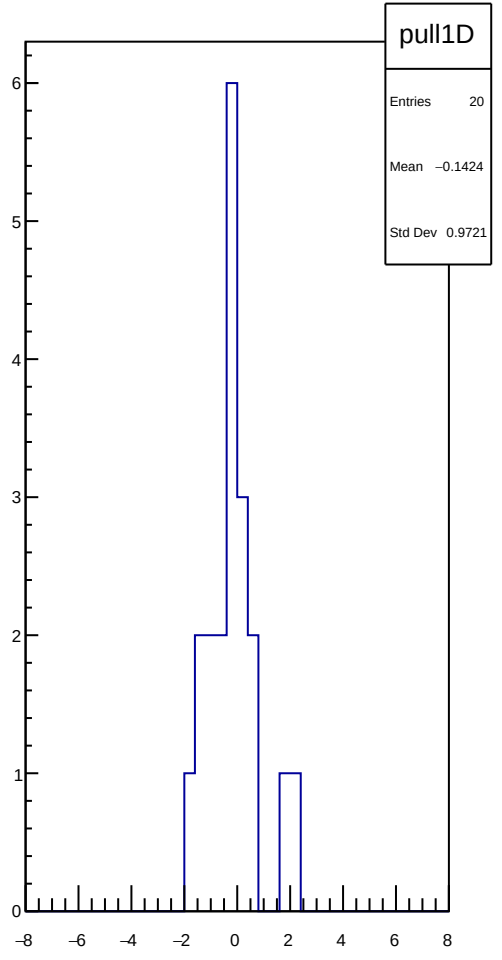

pull1D
Entries 25
Mean 0.05136
Std Dev 1.042
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

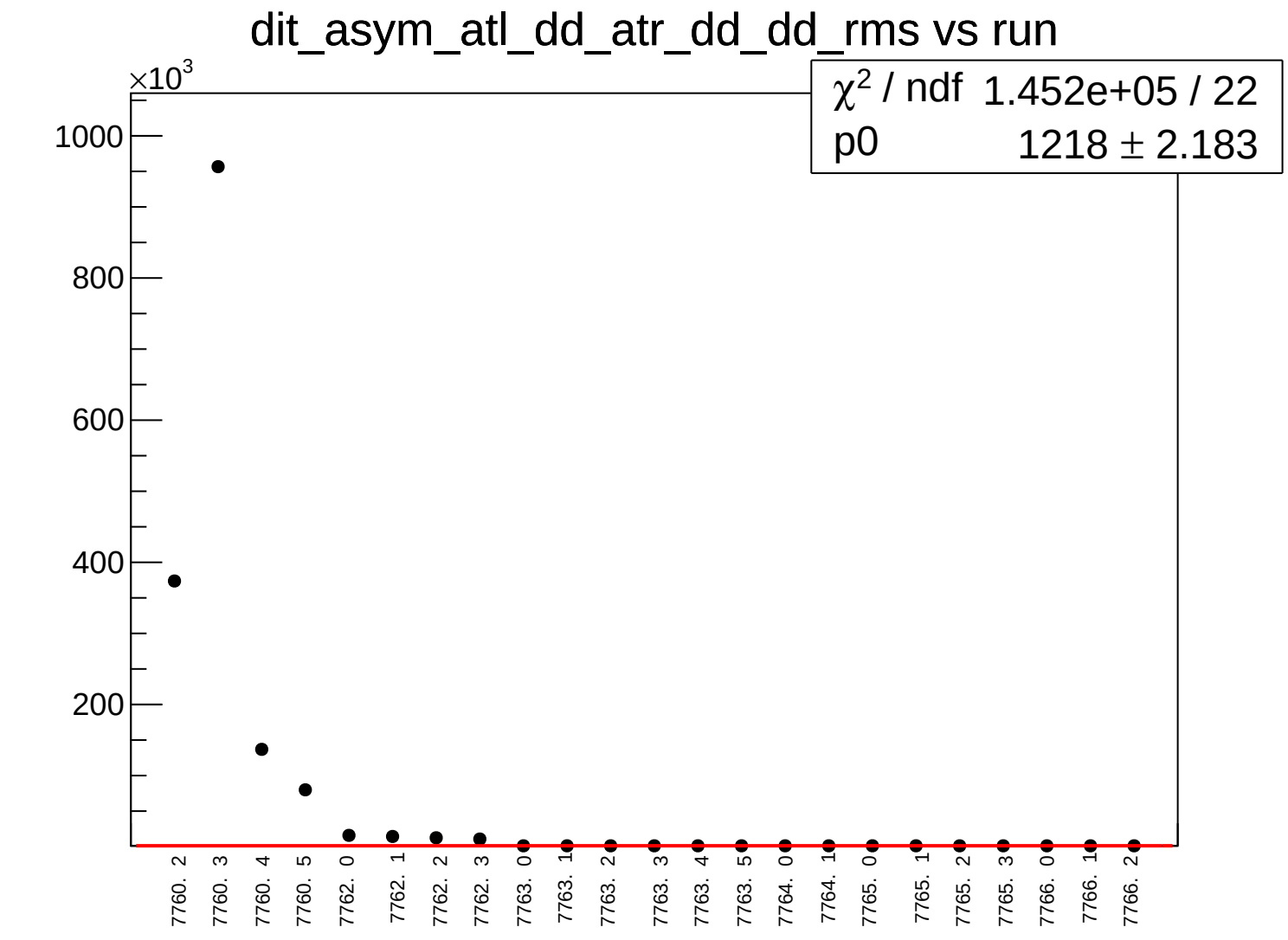

asym_atl_dd_atr_dd_avg_correction_rms vs run
χ² / ndf 723.7 / 24
p0 2014 ± 2.872
2150
2100
2050
2000
1950
1900
1850
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

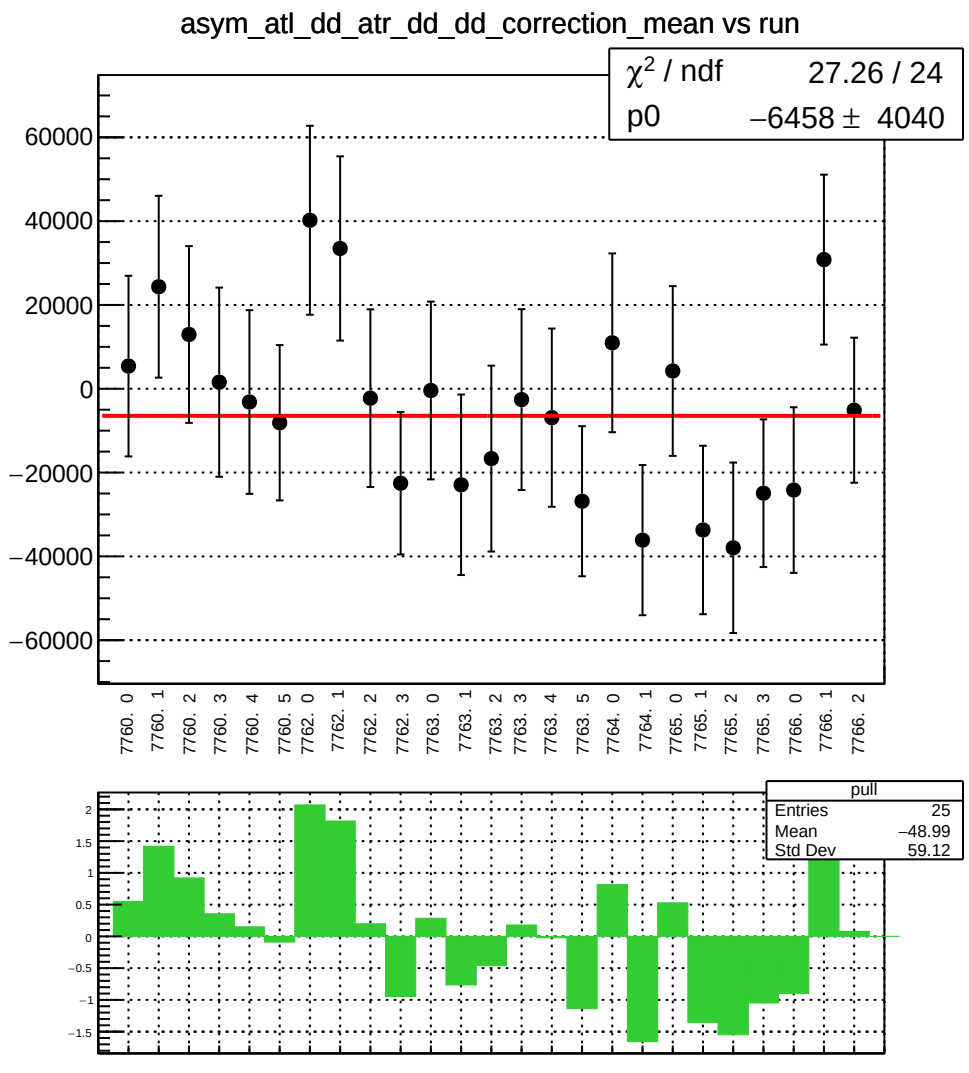

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 23.76 / 19
p0 1.168e+04 ± 5934
1000
800
600
400
200
0
−200
−400
−600
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 20
Mean 6.119
Std Dev 10.33
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean 0.06968
Std Dev 1.088
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

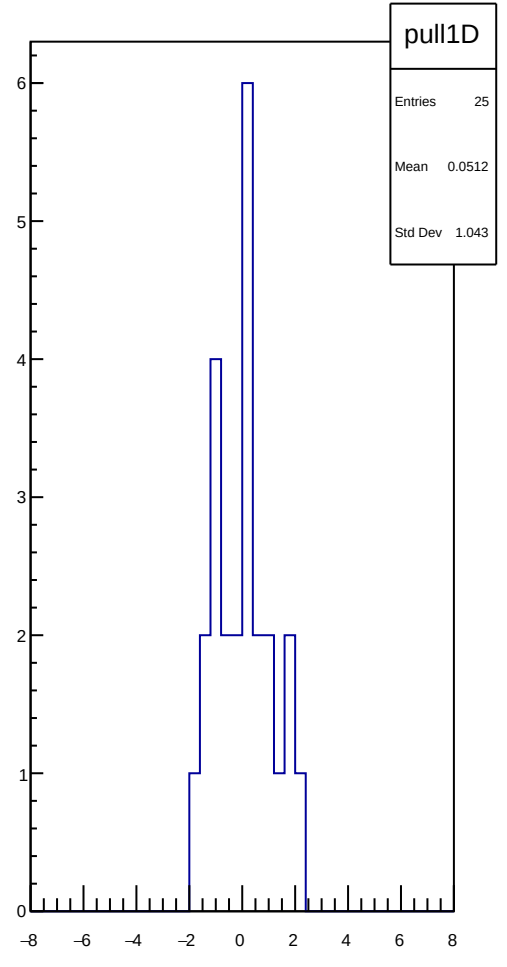

asym_atl_dd_atr_dd_avg_rms vs run
×10^3
1000
800
600
400
200
χ² / ndf 1.32e+05 / 22
p0 2391 ± 4.196
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

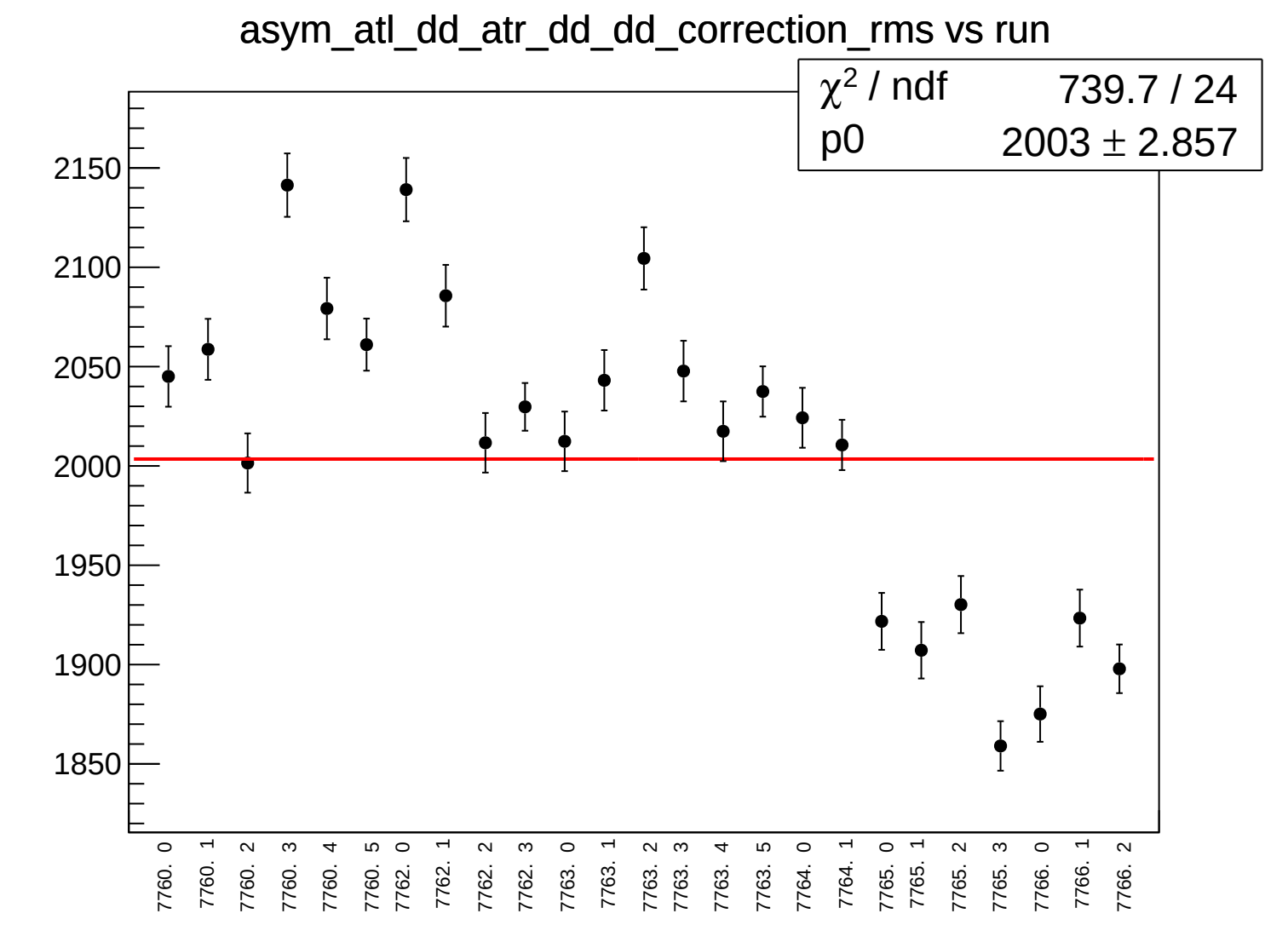

dit_asym_atl_dd_atr_dd_dd_mean vs run
×10^3
χ² / ndf 19.31 / 19
p0 −838.4 ± 3087
600
400
200
0
−200
−400
−600
−800
−1000
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 20
Mean −1.045
Std Dev 9.448
2
1.5
1
0.5
0
−0.5
−1
−1.5

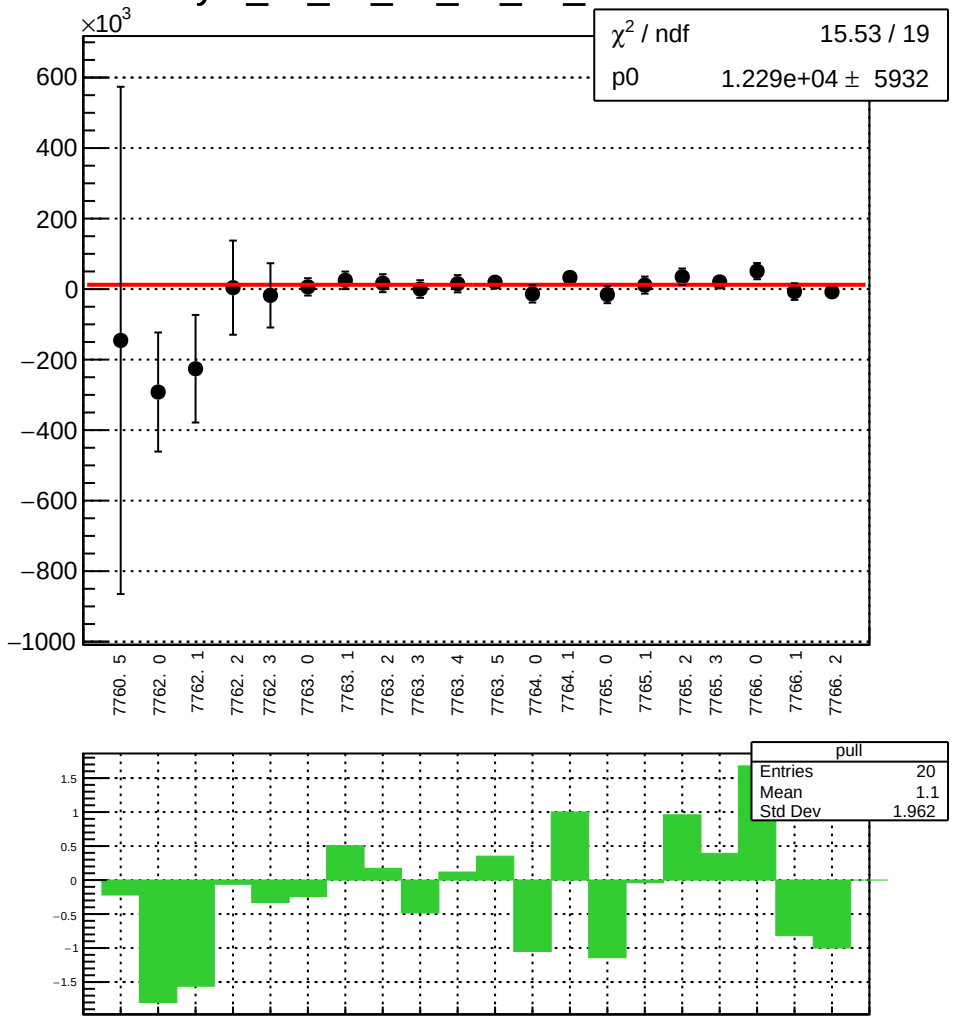

pull1D
Entries 20
Mean −0.1424
Std Dev 0.9721
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

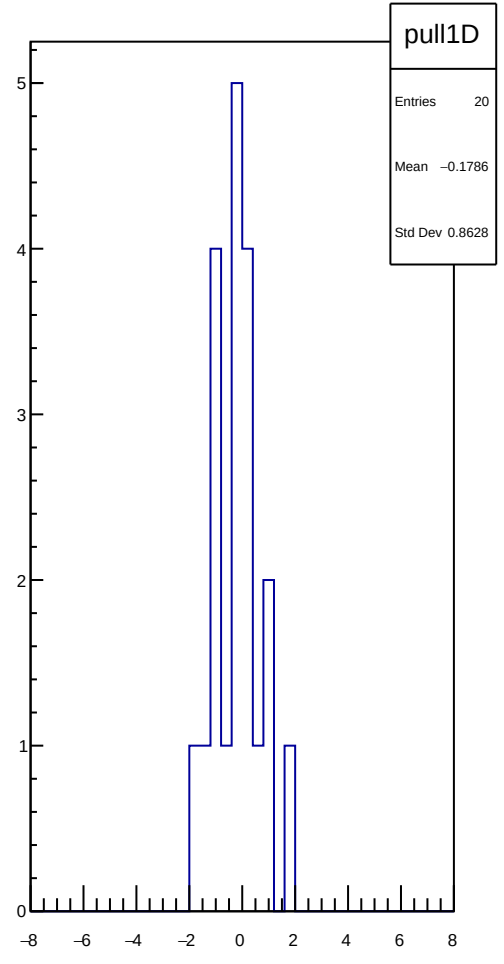

dit_asym_atl_dd_atr_dd_dd_rms vs run
×10^3
1000
800
600
400
200
χ² / ndf 1.452e+05 / 22
p0 1218 ± 2.183
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

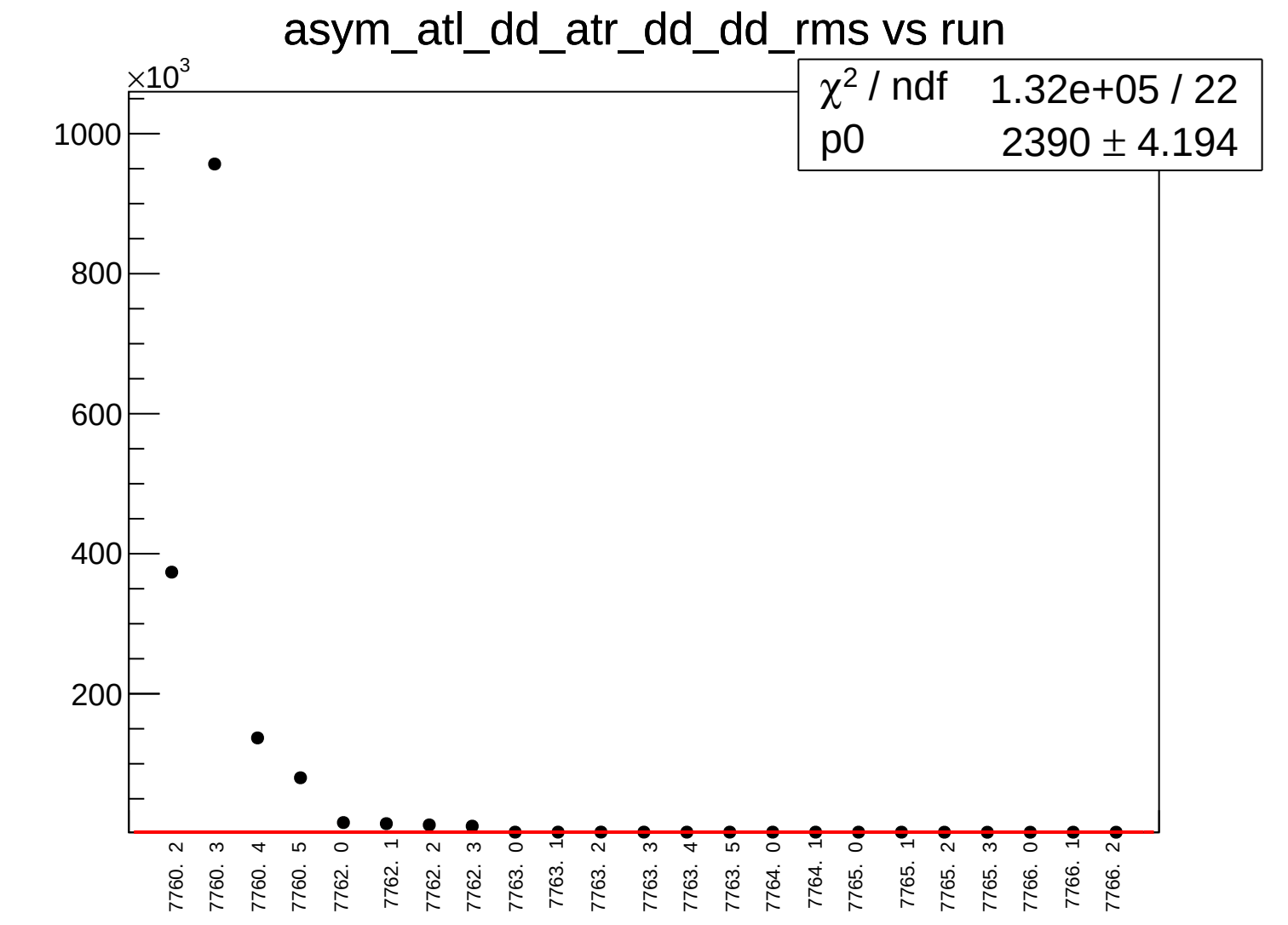

asym_atl_dd_atr_dd_dd_correction_mean vs run
χ² / ndf 27.26 / 24
p0 −6458 ± 4040
60000
40000
20000
0
−20000
−40000
−60000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −48.99
Std Dev 59.12
2
1.5
1
0.5
0
−0.5
−1
−1.5

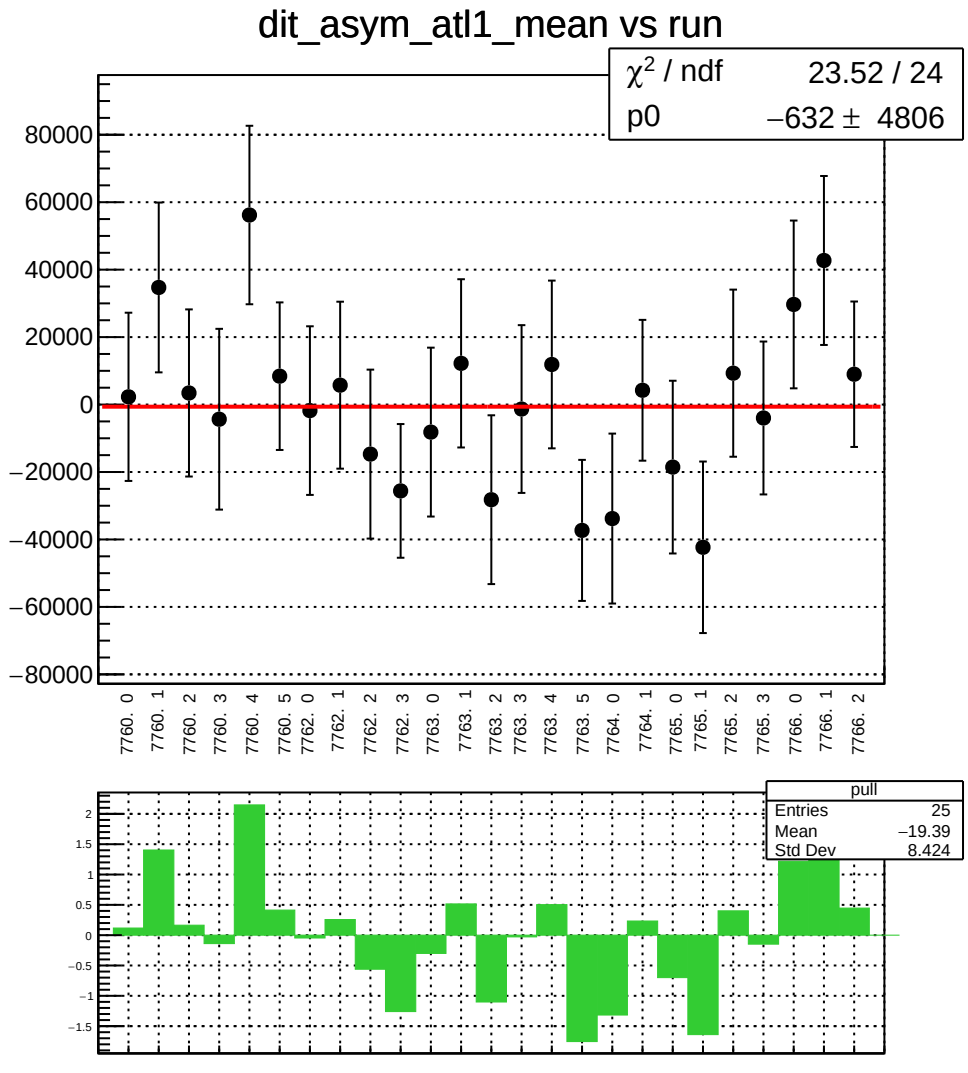

pull1D
Entries 25
Mean 0.0512
Std Dev 1.043
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

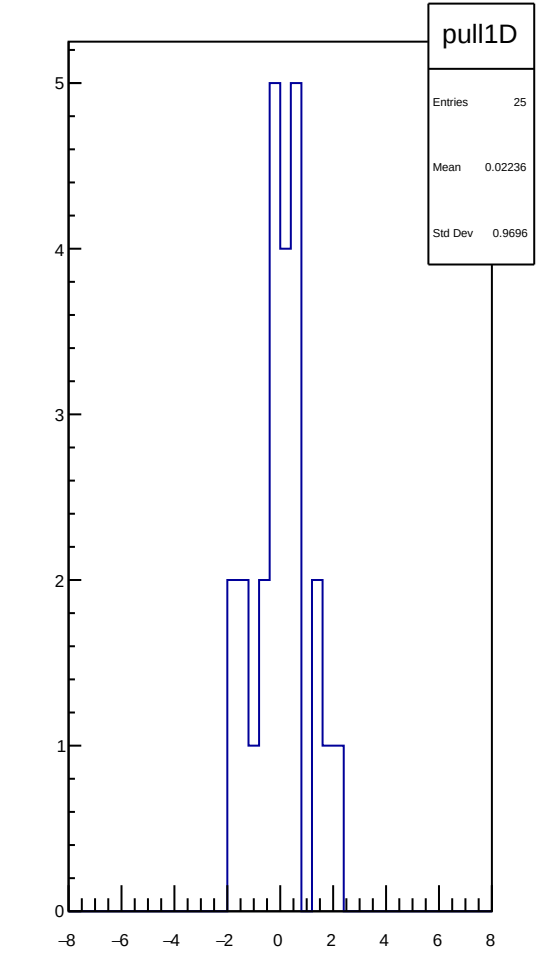

asym_atl_dd_atr_dd_dd_correction_rms vs run
χ² / ndf 739.7 / 24
p0 2003 ± 2.857
2150
2100
2050
2000
1950
1900
1850
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

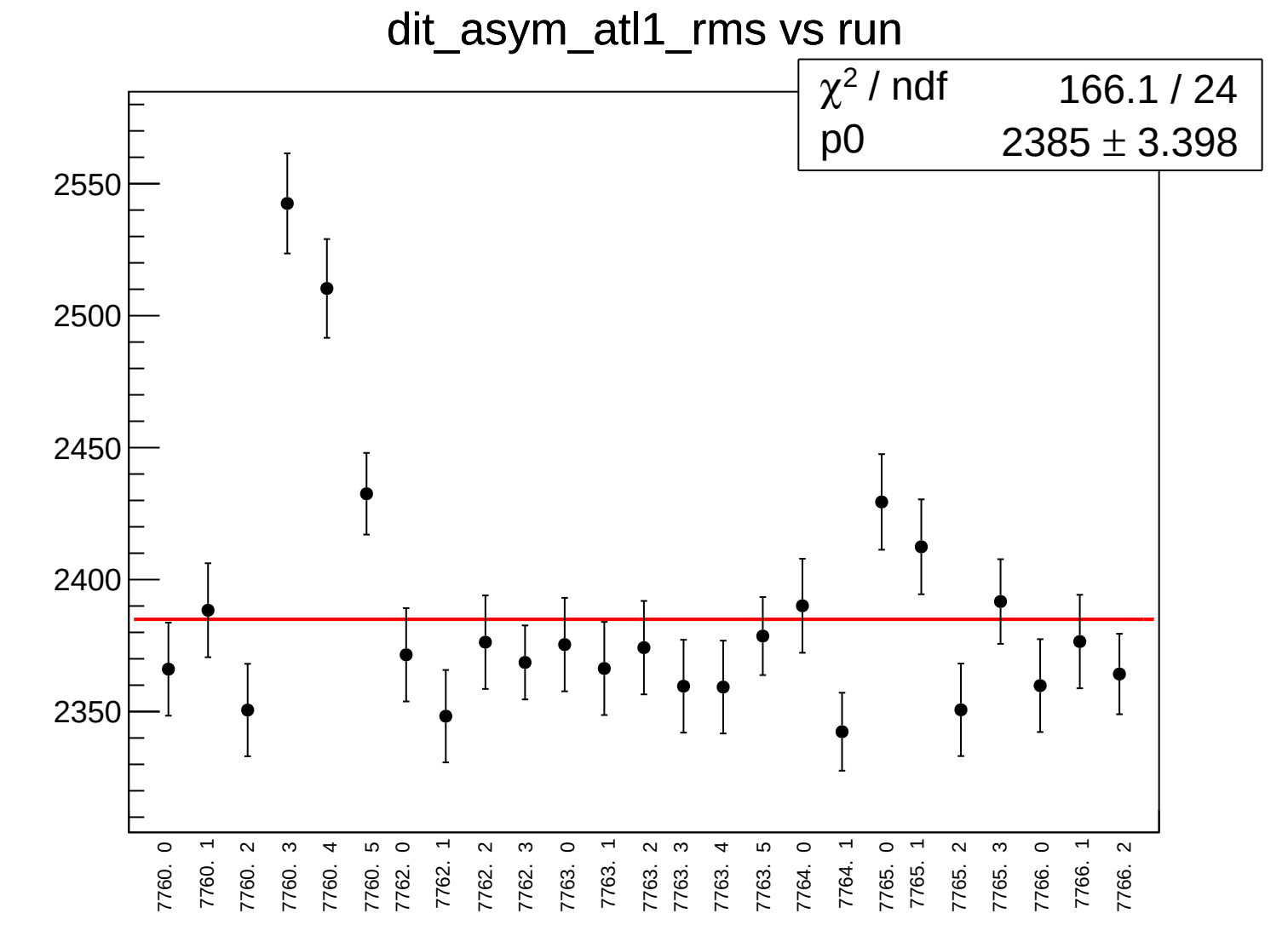

asym_atl_dd_atr_dd_dd_mean vs run
×10^3
χ² / ndf 15.53 / 19
p0 1.229e+04 ± 5932
600
400
200
0
−200
−400
−600
−800
−1000
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 20
Mean 1.1
Std Dev 1.962
1.5
1
0.5
0
−0.5
−1
−1.5

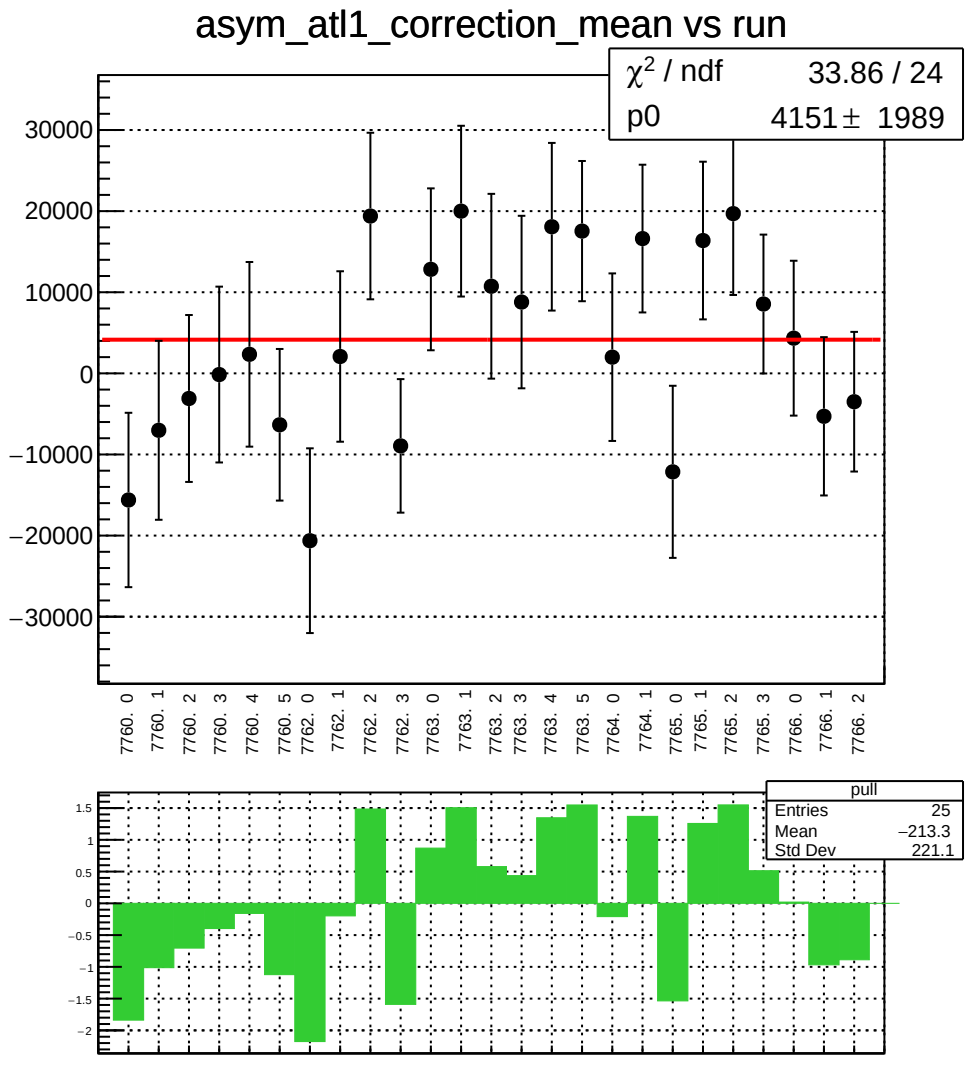

pull1D
Entries 20
Mean −0.1786
Std Dev 0.8628
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

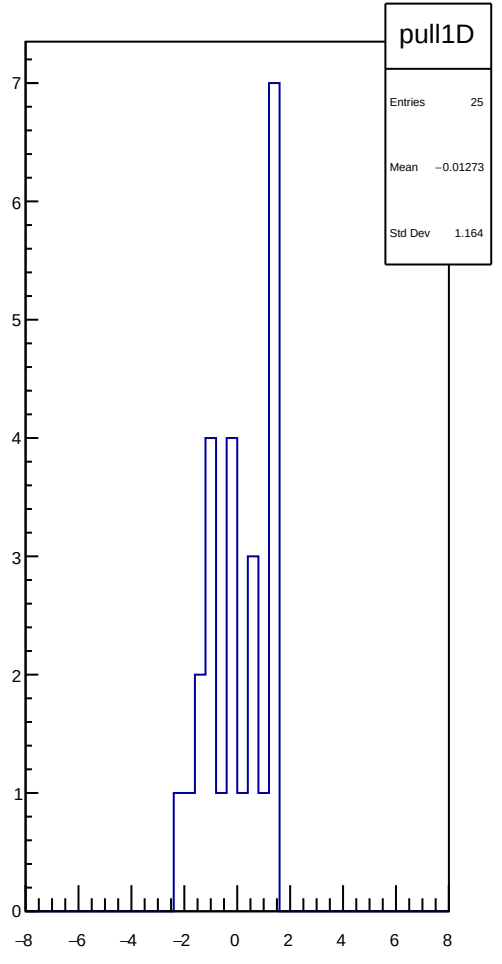

asym_atl_dd_atr_dd_dd_rms vs run
×10^3
1000
800
600
400
200
χ² / ndf 1.32e+05 / 22
p0 2390 ± 4.194
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

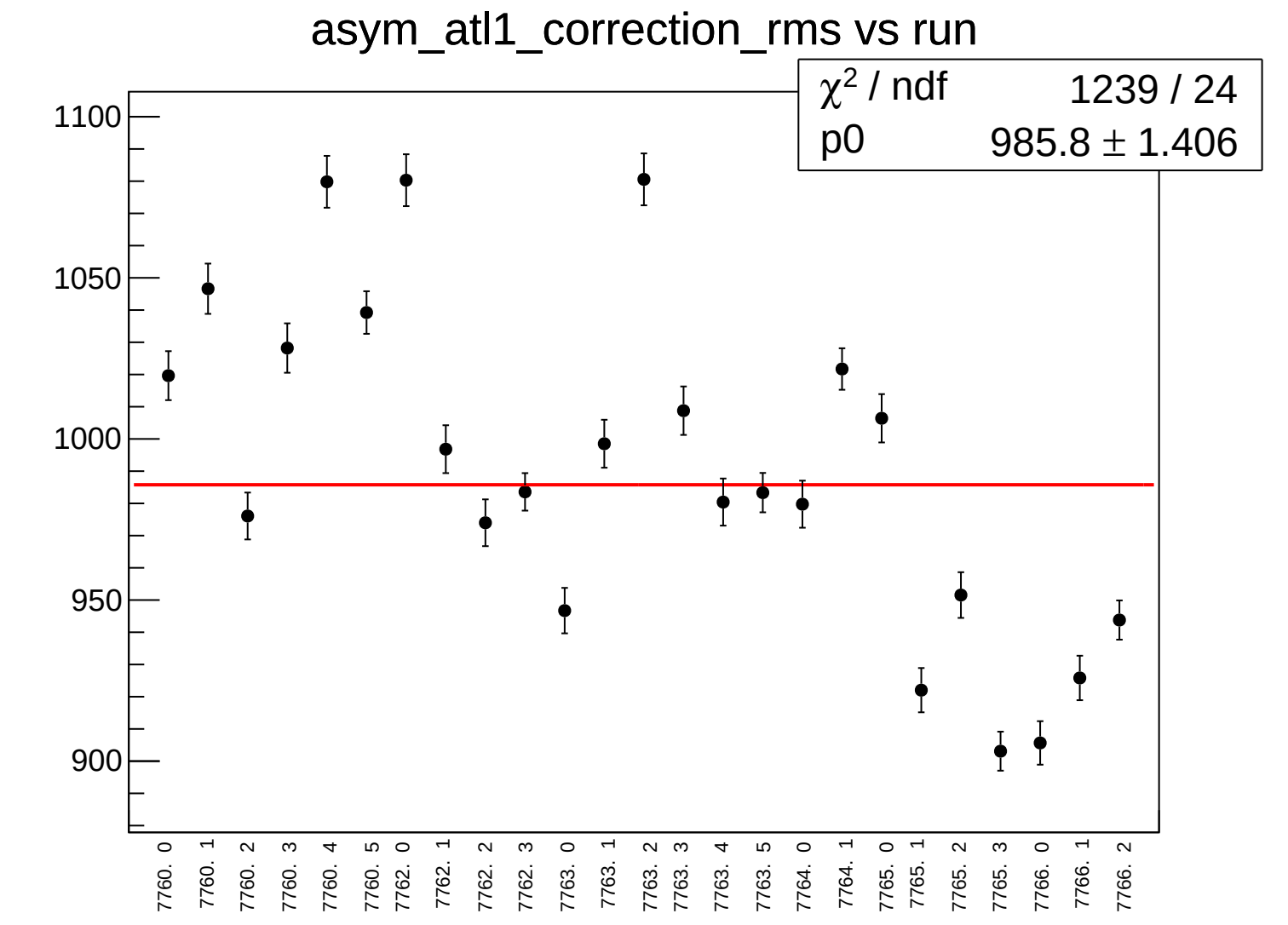

dit_asym_atl1_mean vs run
χ² / ndf 23.52 / 24
p0 −632 ± 4806
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −19.39
Std Dev 8.424
2
1.5
1
0.5
0
−0.5
−1
−1.5

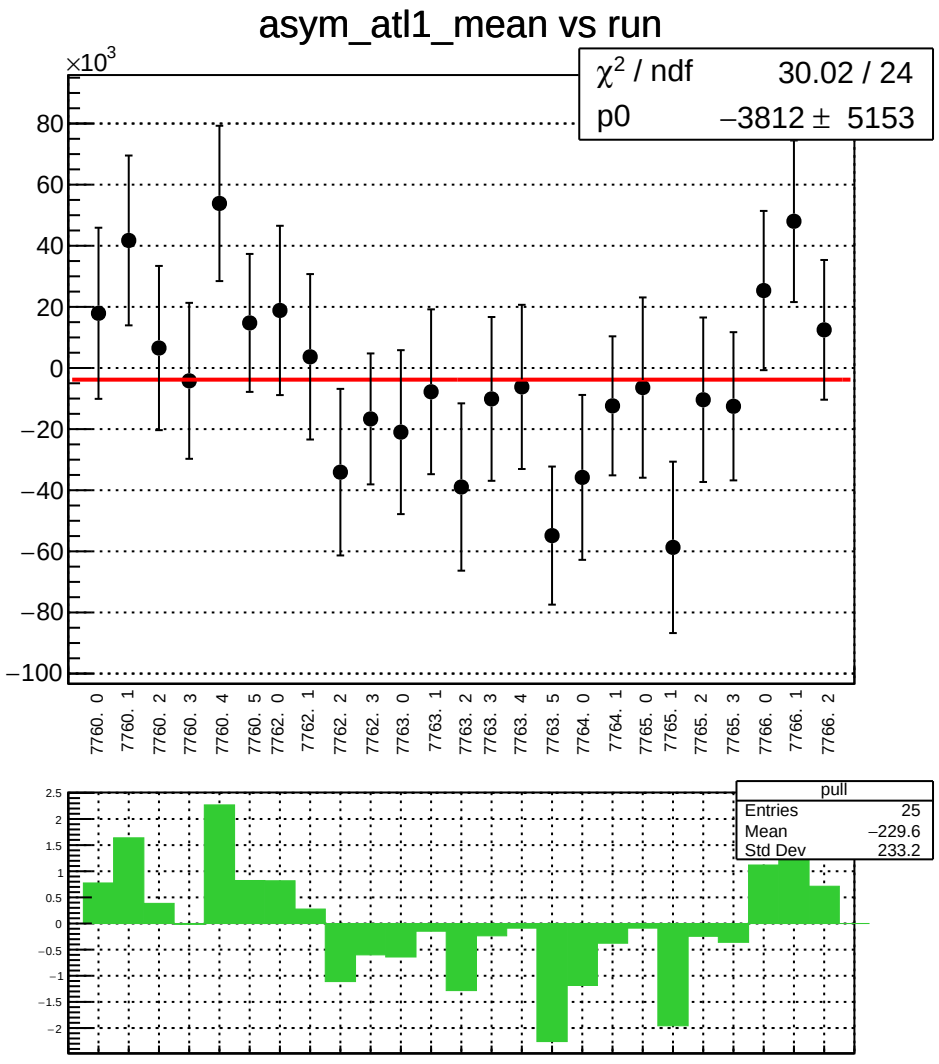

pull1D
Entries 25
Mean 0.02236
Std Dev 0.9696
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

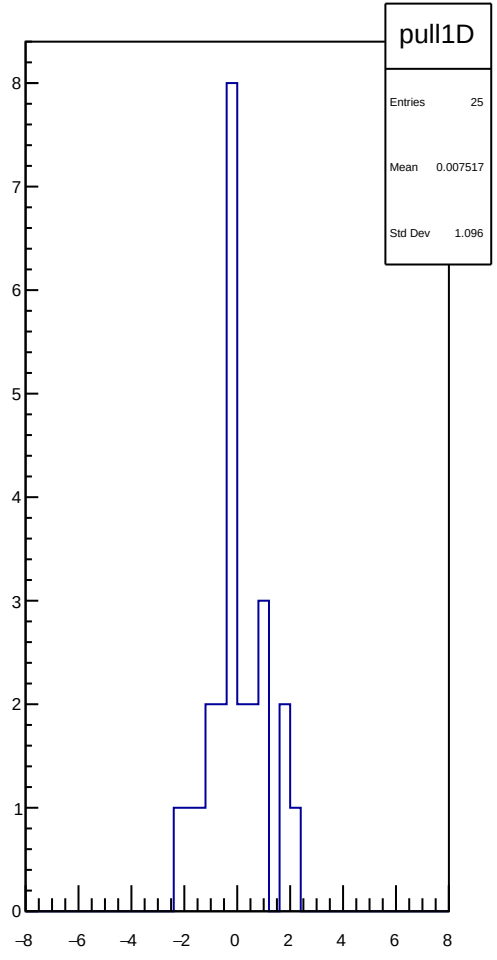

dit_asym_atl1_rms vs run
χ² / ndf 166.1 / 24
p0 2385 ± 3.398
2550
2500
2450
2400
2350
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

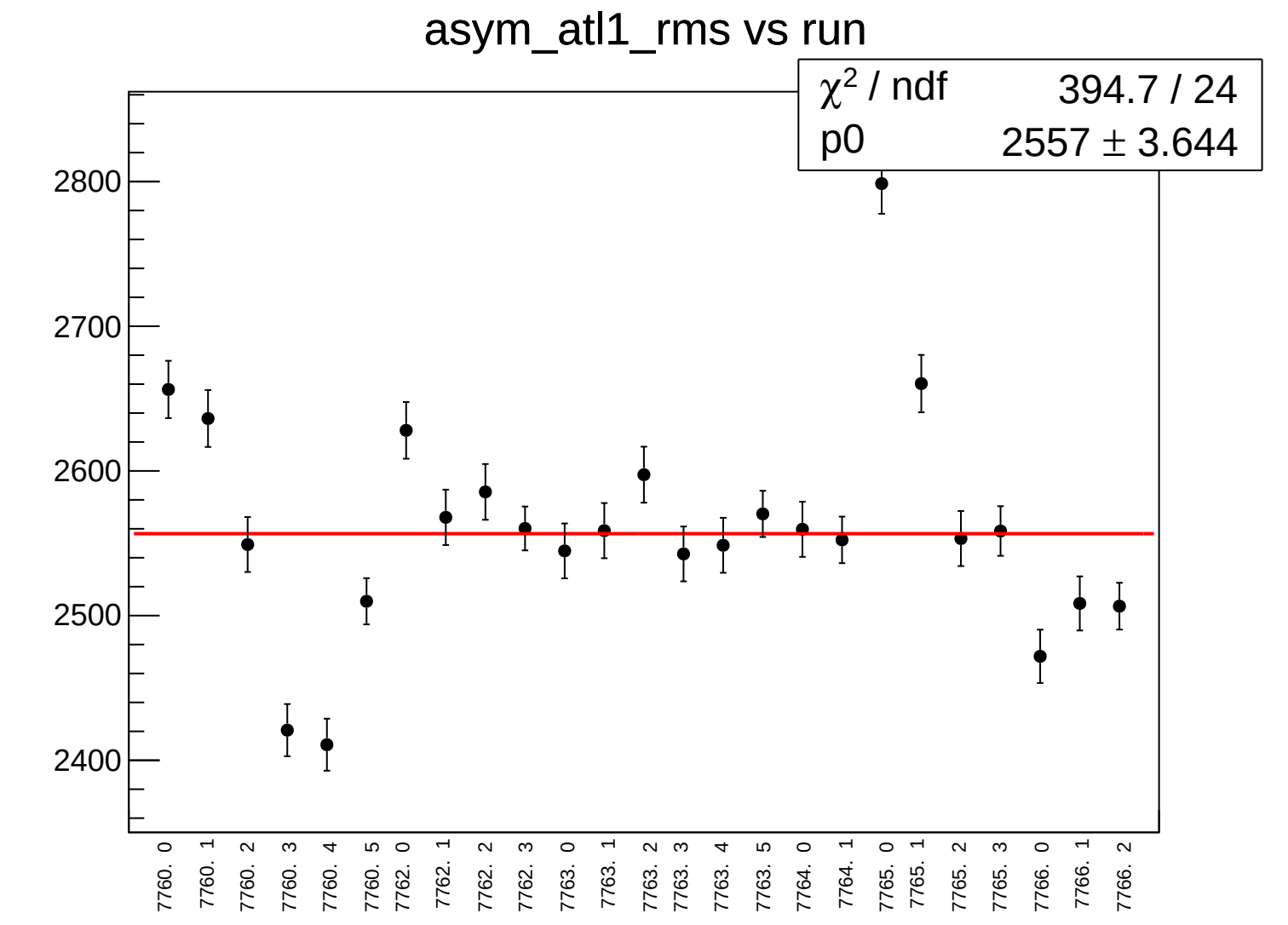

asym_atl1_correction_mean vs run
χ² / ndf 33.86 / 24
p0 4151 ± 1989
30000
20000
10000
0
−10000
−20000
−30000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −213.3
Std Dev 221.1
1.5
1
0.5
0
−0.5
−1
−1.5
−2

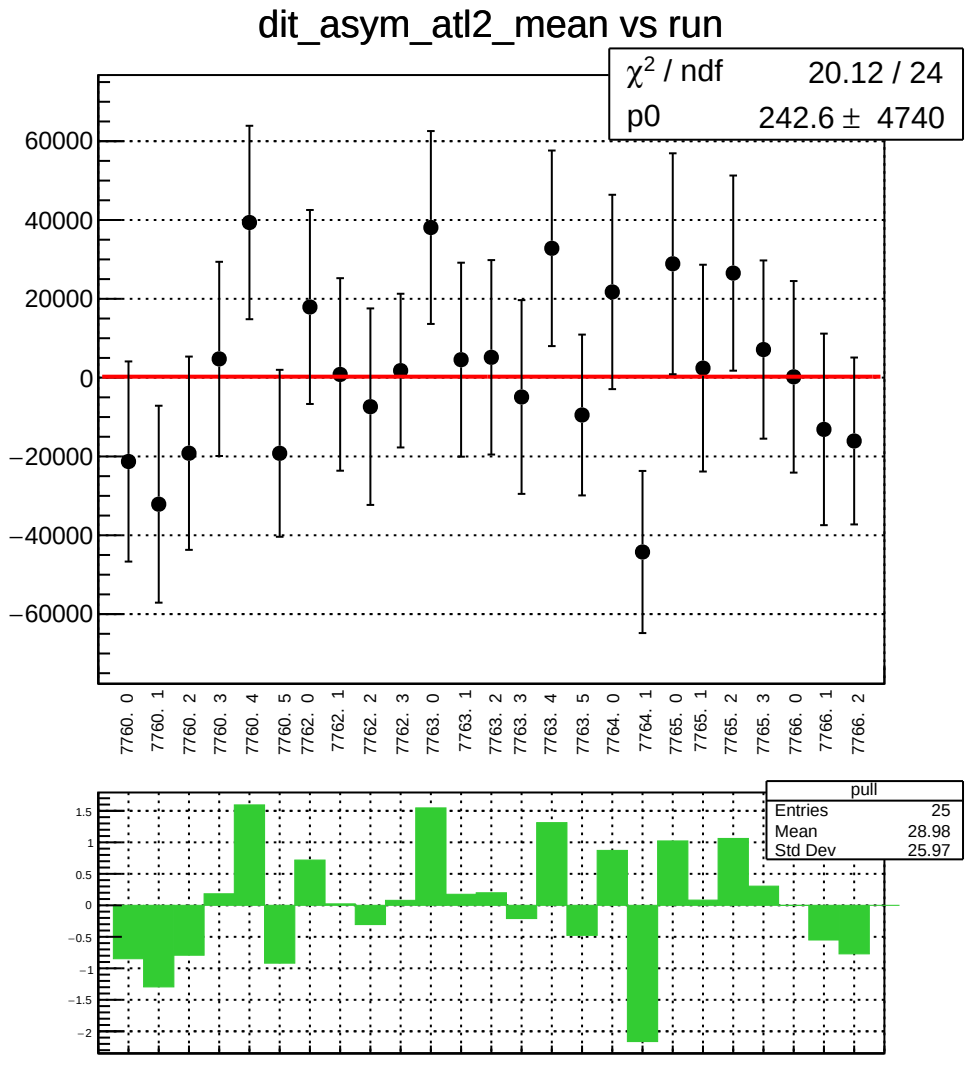

pull1D
Entries 25
Mean −0.01273
Std Dev 1.164
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

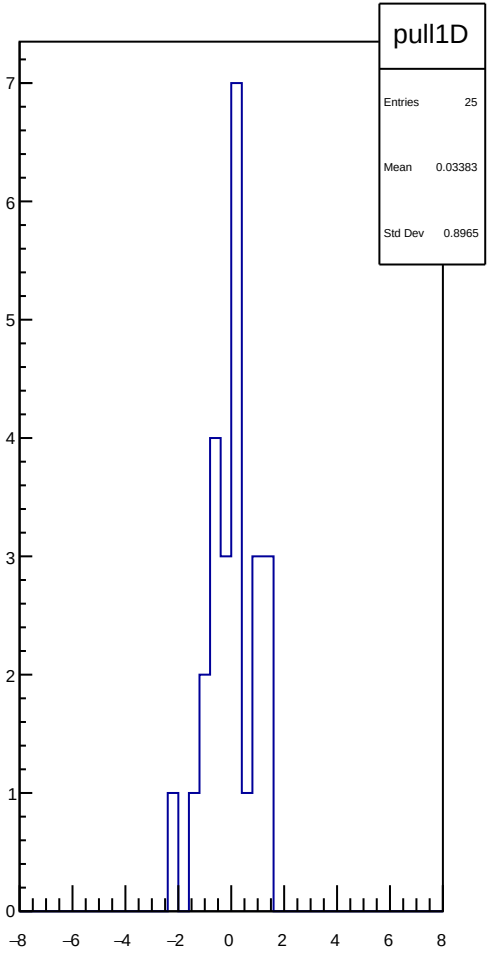

asym_atl1_correction_rms vs run
χ² / ndf 1239 / 24
p0 985.8 ± 1.406
1100
1050
1000
950
900
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

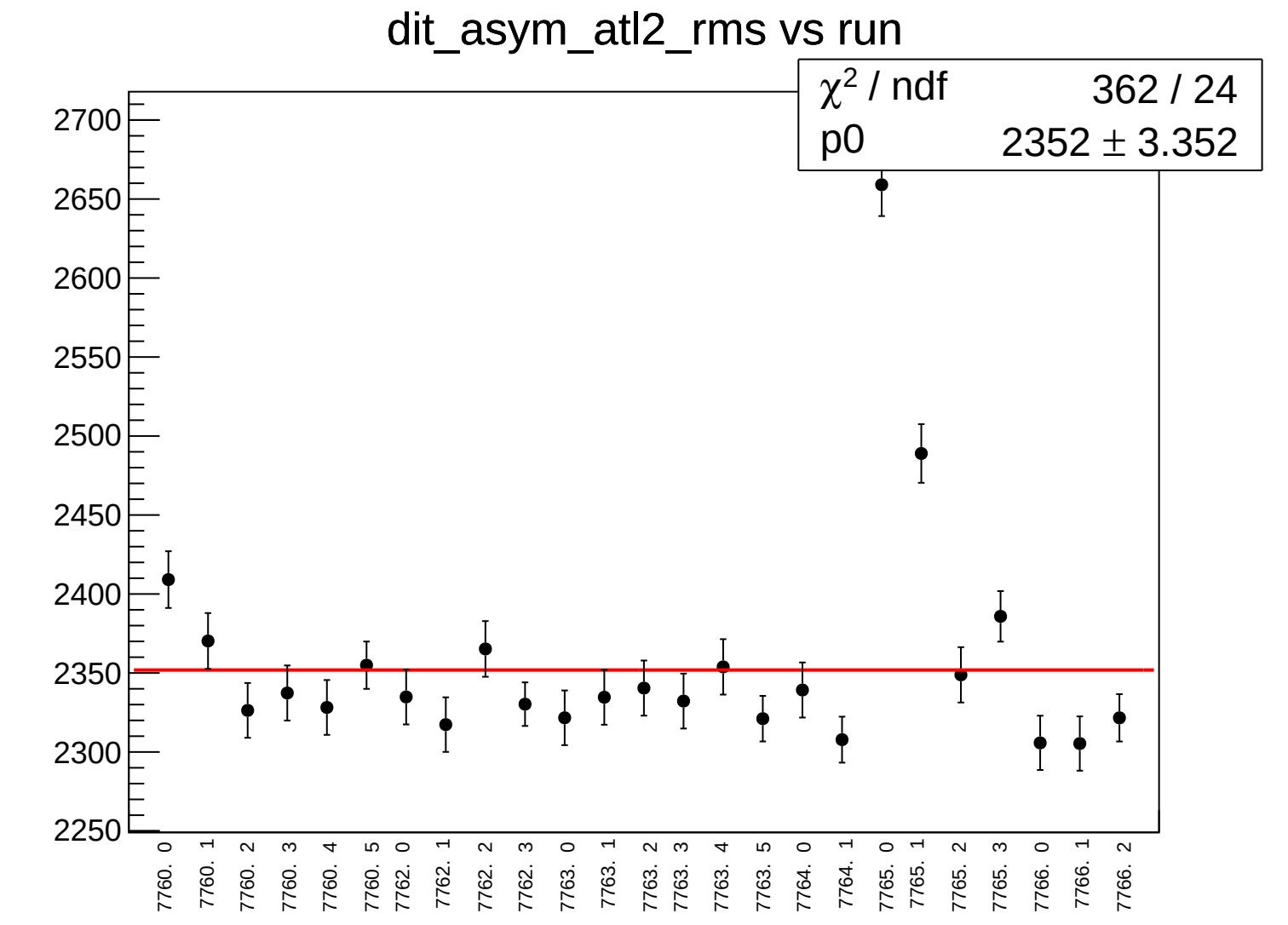

asym_atl1_mean vs run
×10^3
χ^2 / ndf 30.02 / 24
p0 −3812 ± 5153
80
60
40
20
0
−20
−40
−60
−80
−100
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −229.6
Std Dev 233.2
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

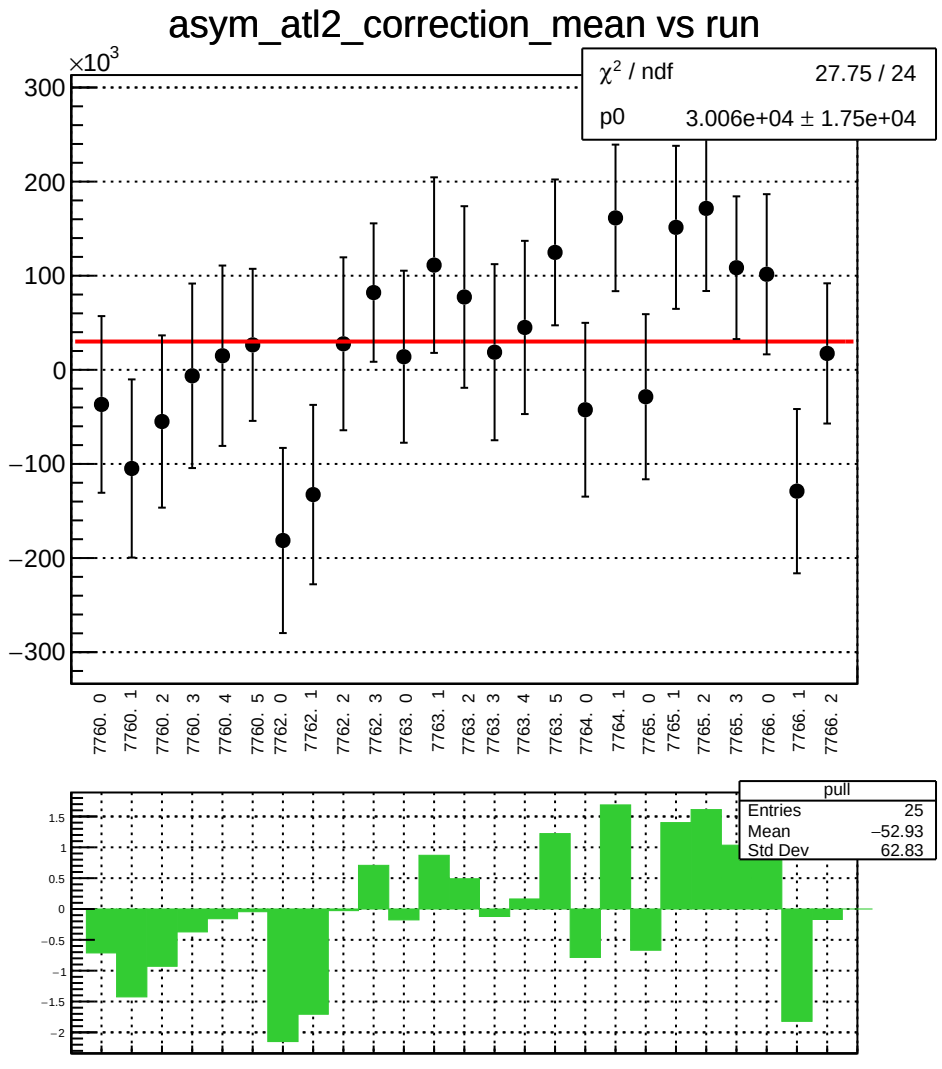

pull1D
Entries 25
Mean 0.007517
Std Dev 1.096
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

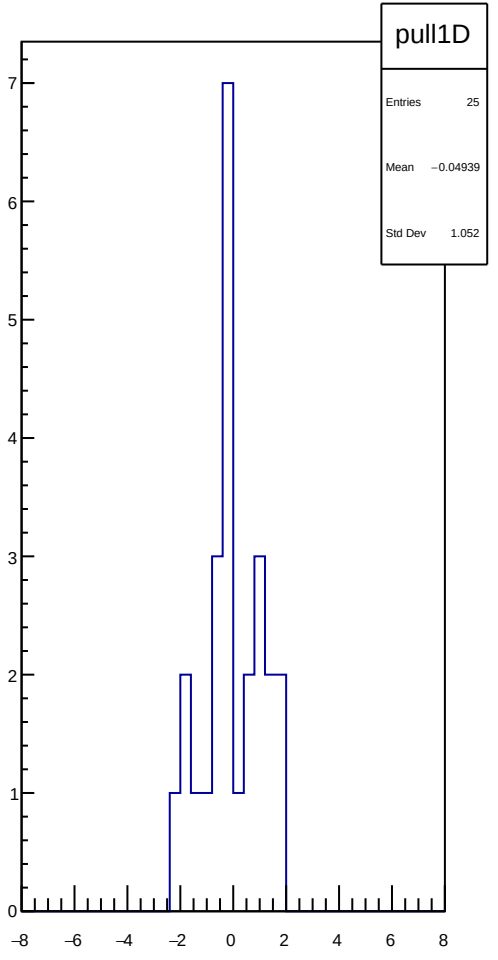

asym_atl1_rms vs run
χ² / ndf 394.7 / 24
p0 2557 ± 3.644
2800
2700
2600
2500
2400
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

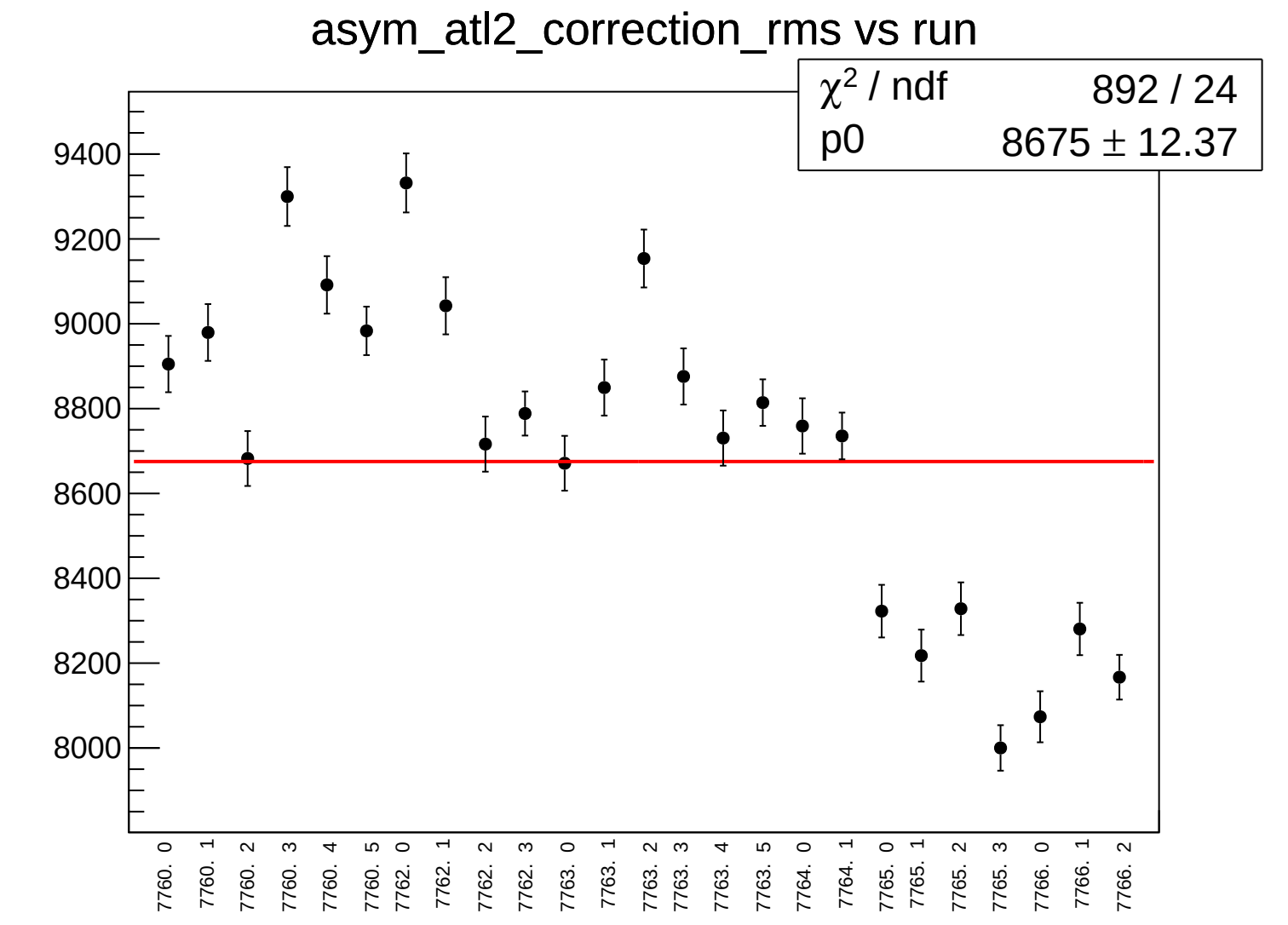

dit_asym_atl2_mean vs run
χ² / ndf 20.12 / 24
p0 242.6 ± 4740
60000
40000
20000
0
−20000
−40000
−60000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 28.98
Std Dev 25.97
1.5
1
0.5
0
−0.5
−1
−1.5
−2

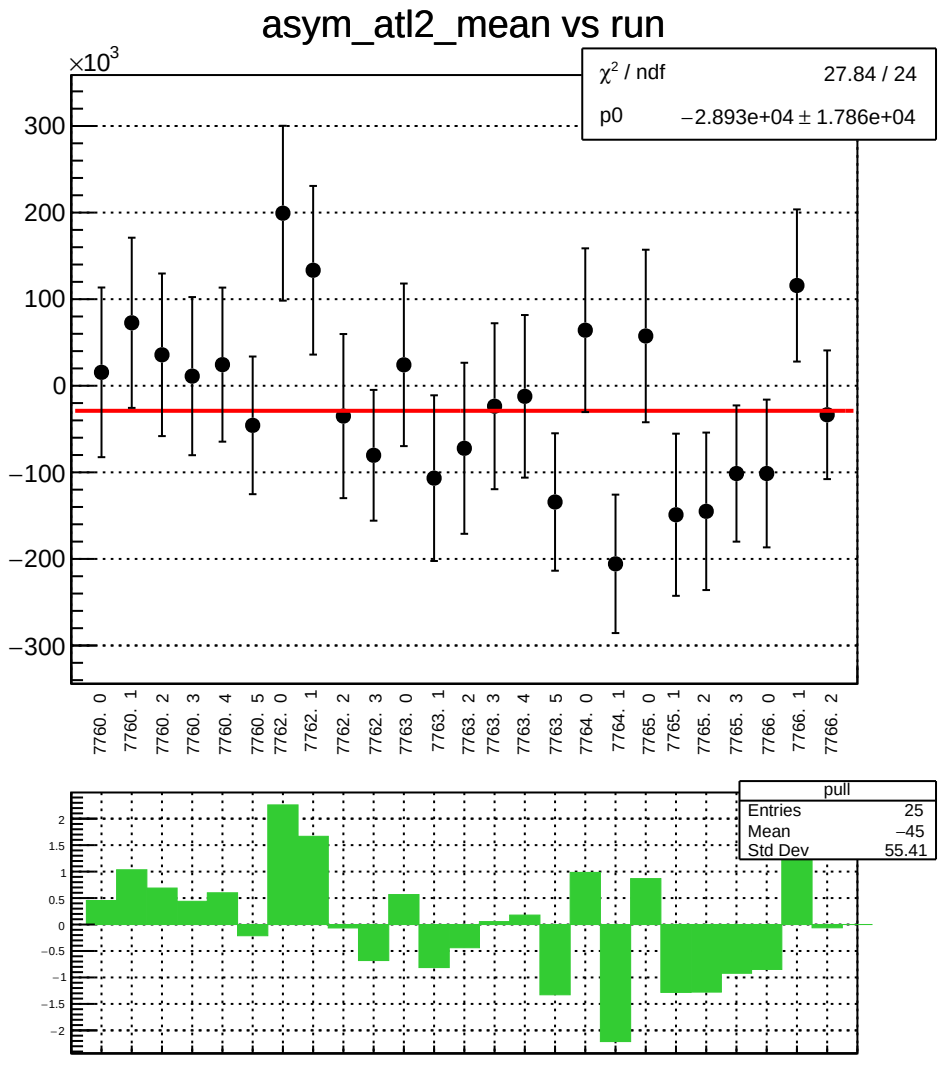

pull1D
Entries 25
Mean 0.03383
Std Dev 0.8965
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

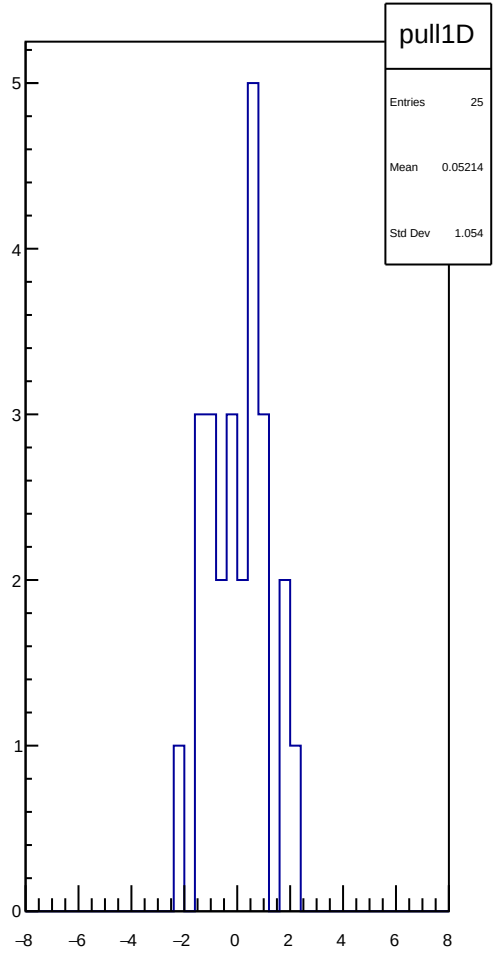

dit_asym_atl2_rms vs run
χ² / ndf 362 / 24
p0 2352 ± 3.352
2700
2650
2600
2550
2500
2450
2400
2350
2300
2250
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

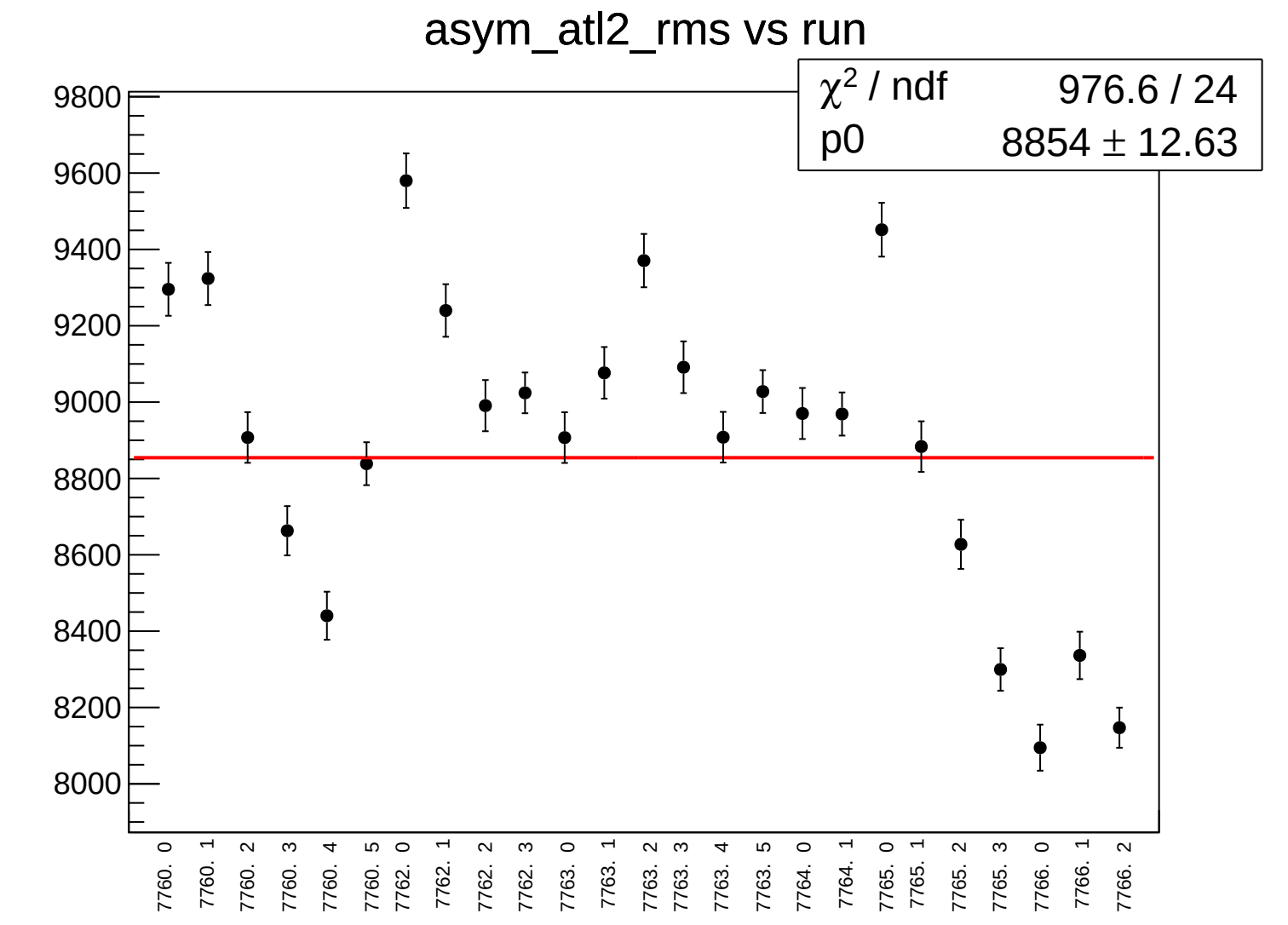

asym_atl2_correction_mean vs run
×10^3
χ² / ndf 27.75 / 24
p0 3.006e+04 ± 1.75e+04
300
200
100
0
−100
−200
−300
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −52.93
Std Dev 62.83
1.5
1
0.5
0
−0.5
−1
−1.5
−2

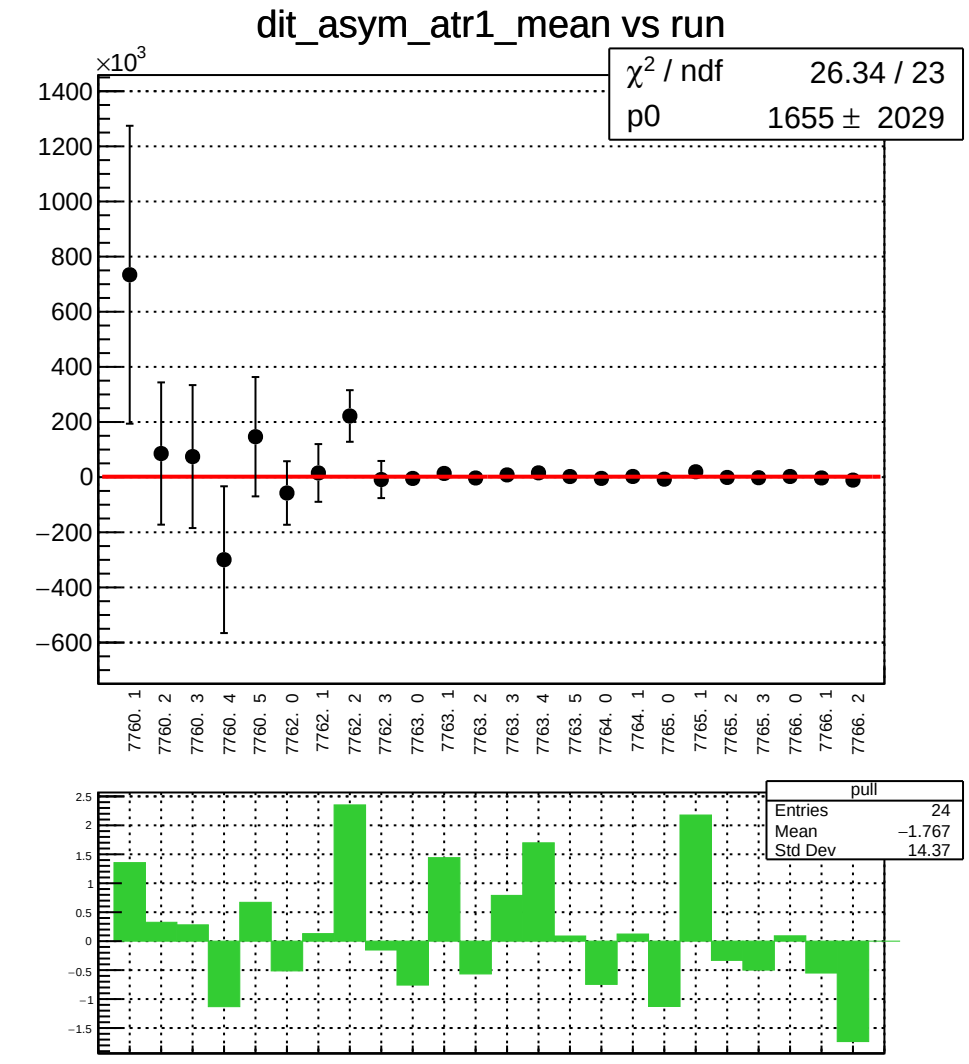

pull1D
Entries 25
Mean −0.04939
Std Dev 1.052
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

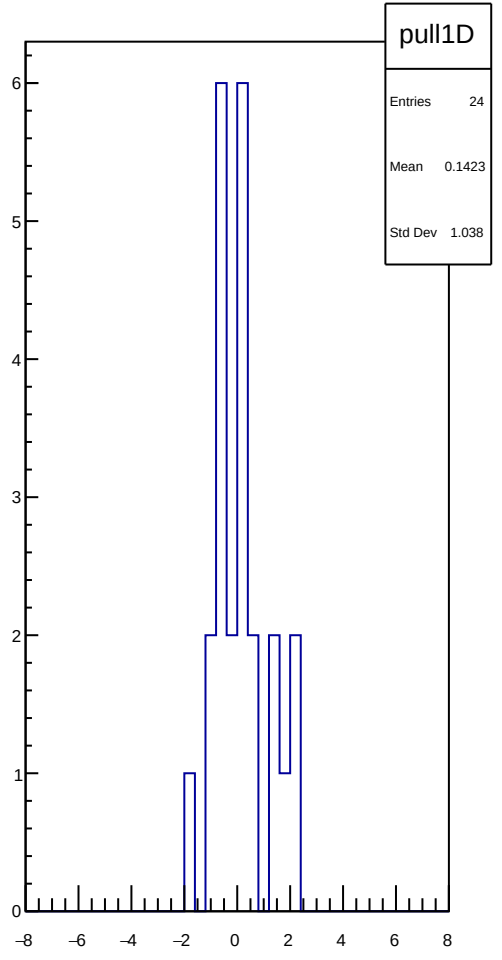

asym_atl2_correction_rms vs run
χ² / ndf 892 / 24
p0 8675 ± 12.37
9400
9200
9000
8800
8600
8400
8200
8000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

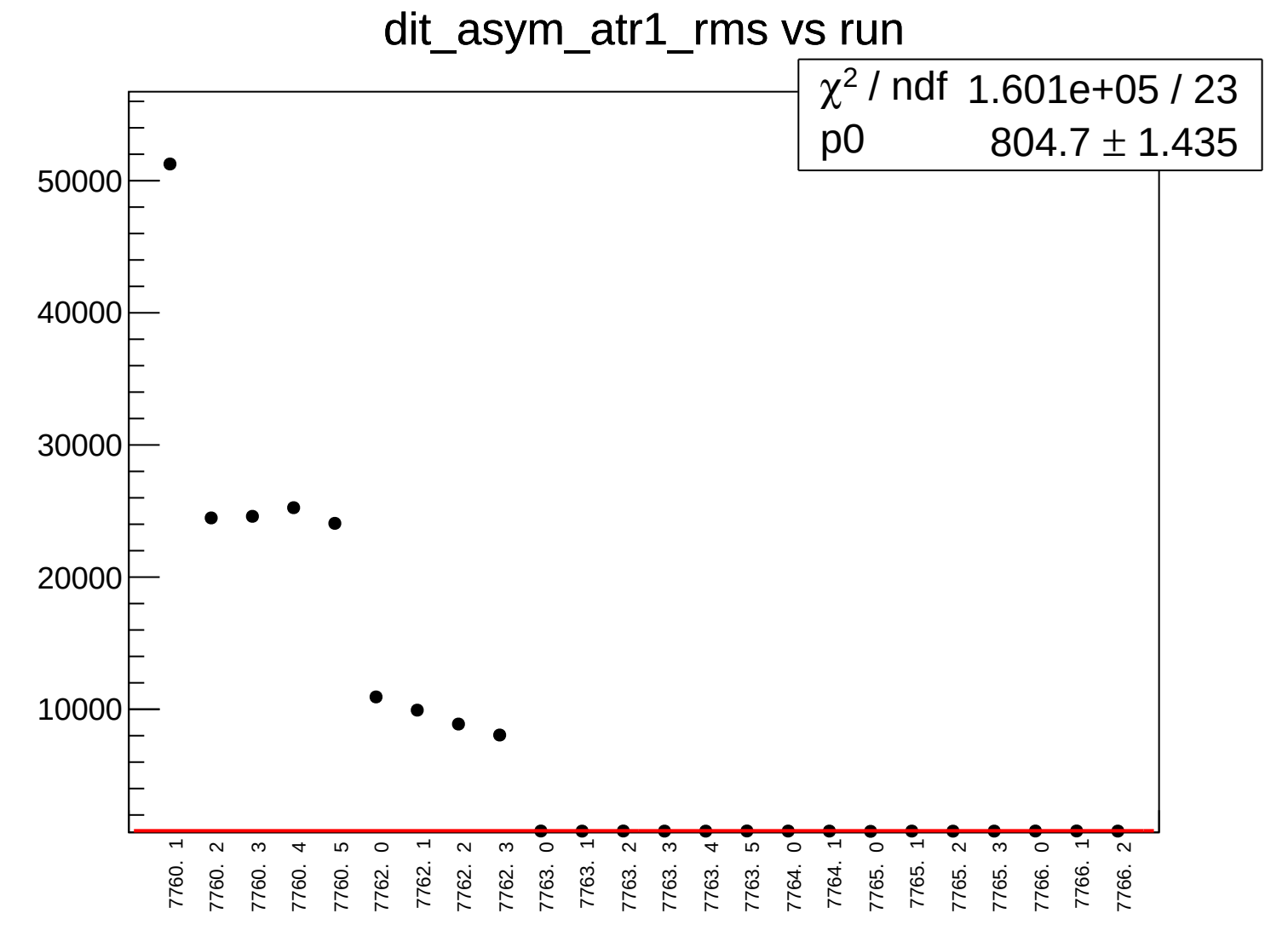

asym_atl2_mean vs run
×10^3
χ² / ndf 27.84 / 24
p0 −2.893e+04 ± 1.786e+04
300
200
100
0
−100
−200
−300
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −45
Std Dev 55.41
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

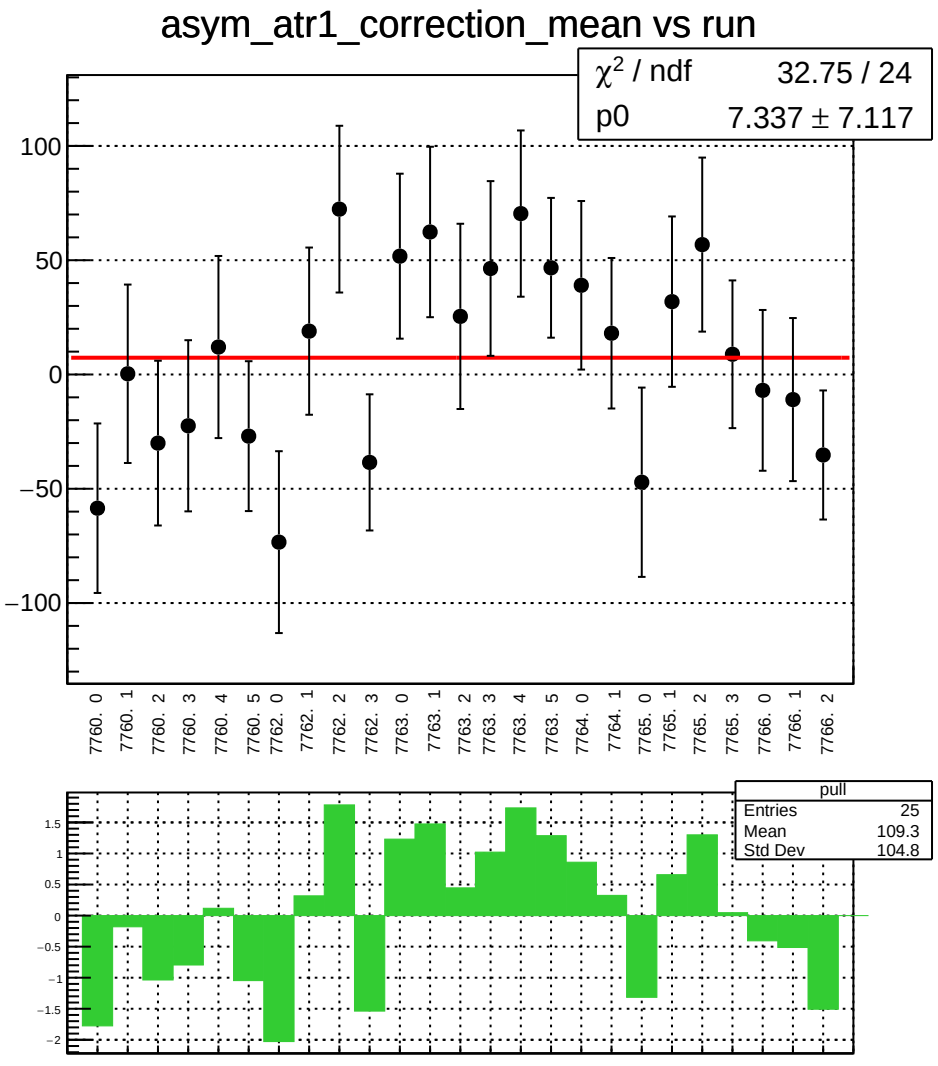

pull1D
Entries 25
Mean 0.05214
Std Dev 1.054
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

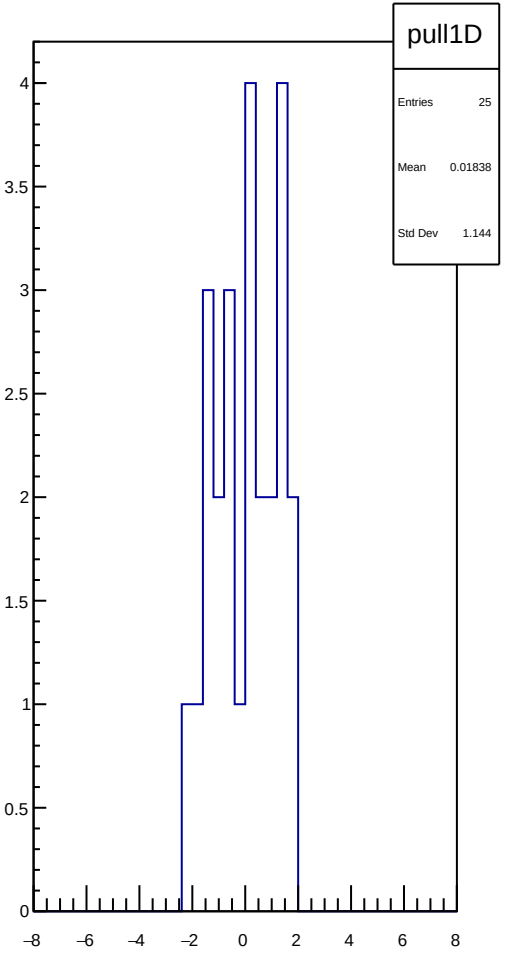

asym_atl2_rms vs run
χ² / ndf 976.6 / 24
p0 8854 ± 12.63
9800
9600
9400
9200
9000
8800
8600
8400
8200
8000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

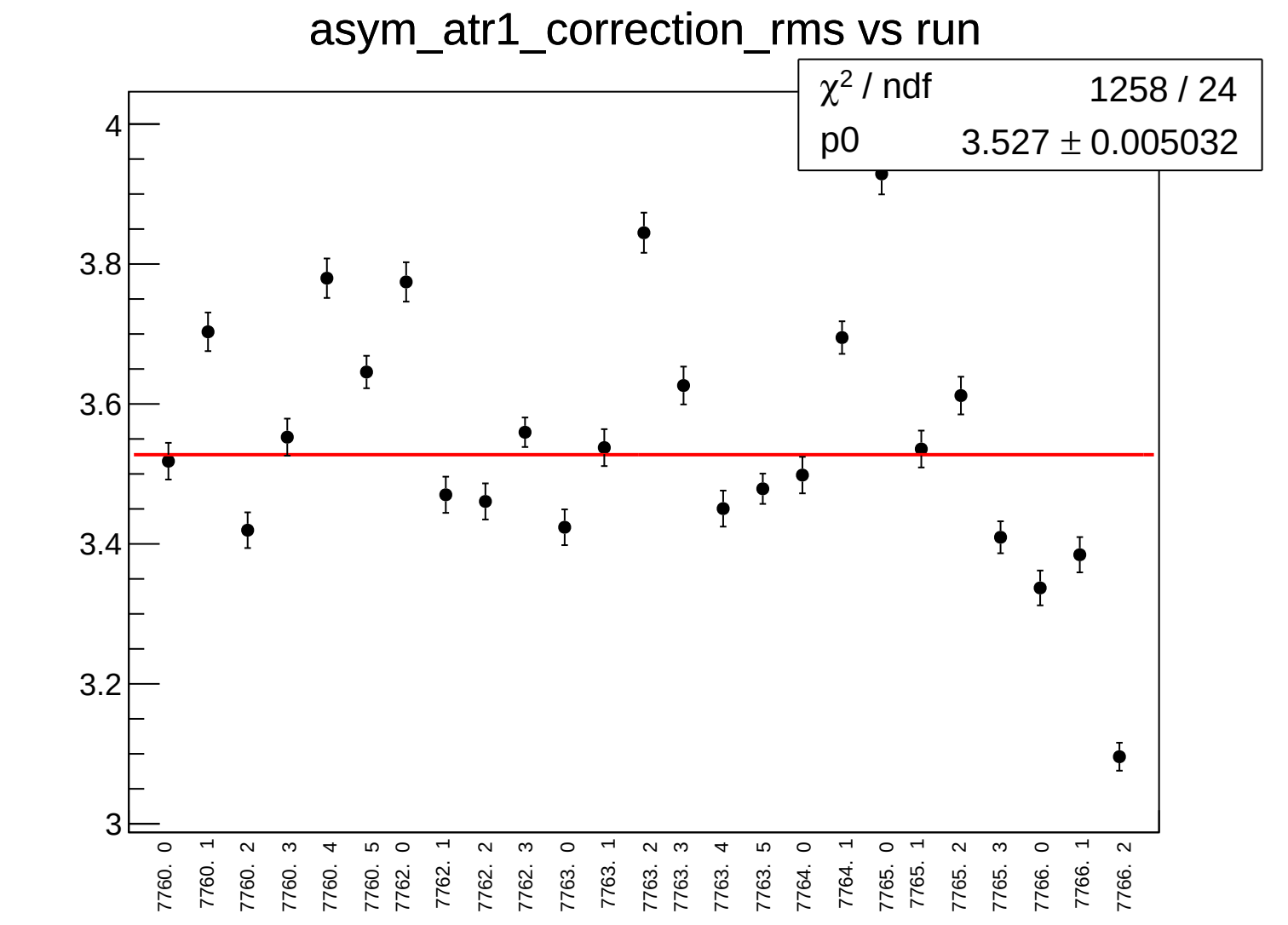

dit_asym_atr1_mean vs run
χ^2 / ndf 26.34 / 23
p0 1655 ± 2029
×10^3
1400
1200
1000
800
600
400
200
0
−200
−400
−600
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 24
Mean −1.767
Std Dev 14.37
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

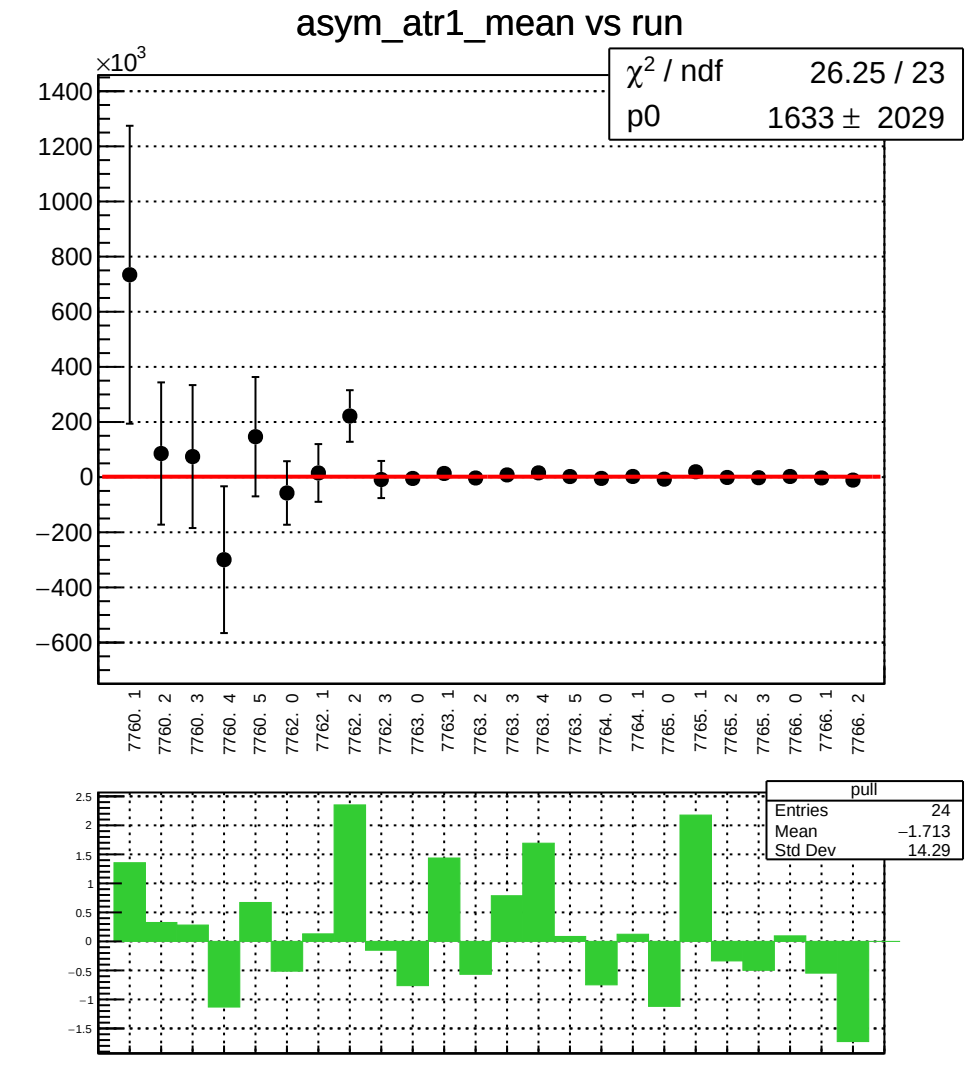

pull1D
Entries 24
Mean 0.1423
Std Dev 1.038
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

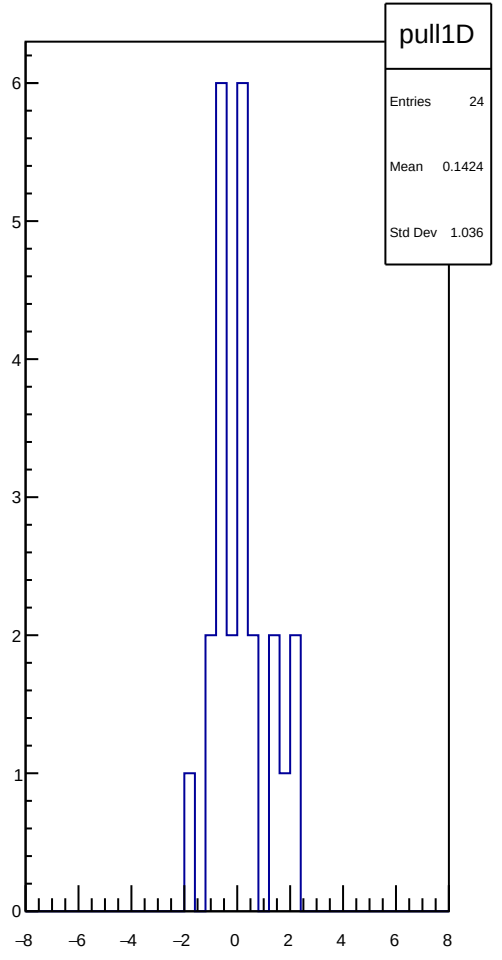

dit_asym_atr1_rms vs run
χ² / ndf 1.601e+05 / 23
p0 804.7 ± 1.435
50000
40000
30000
20000
10000
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

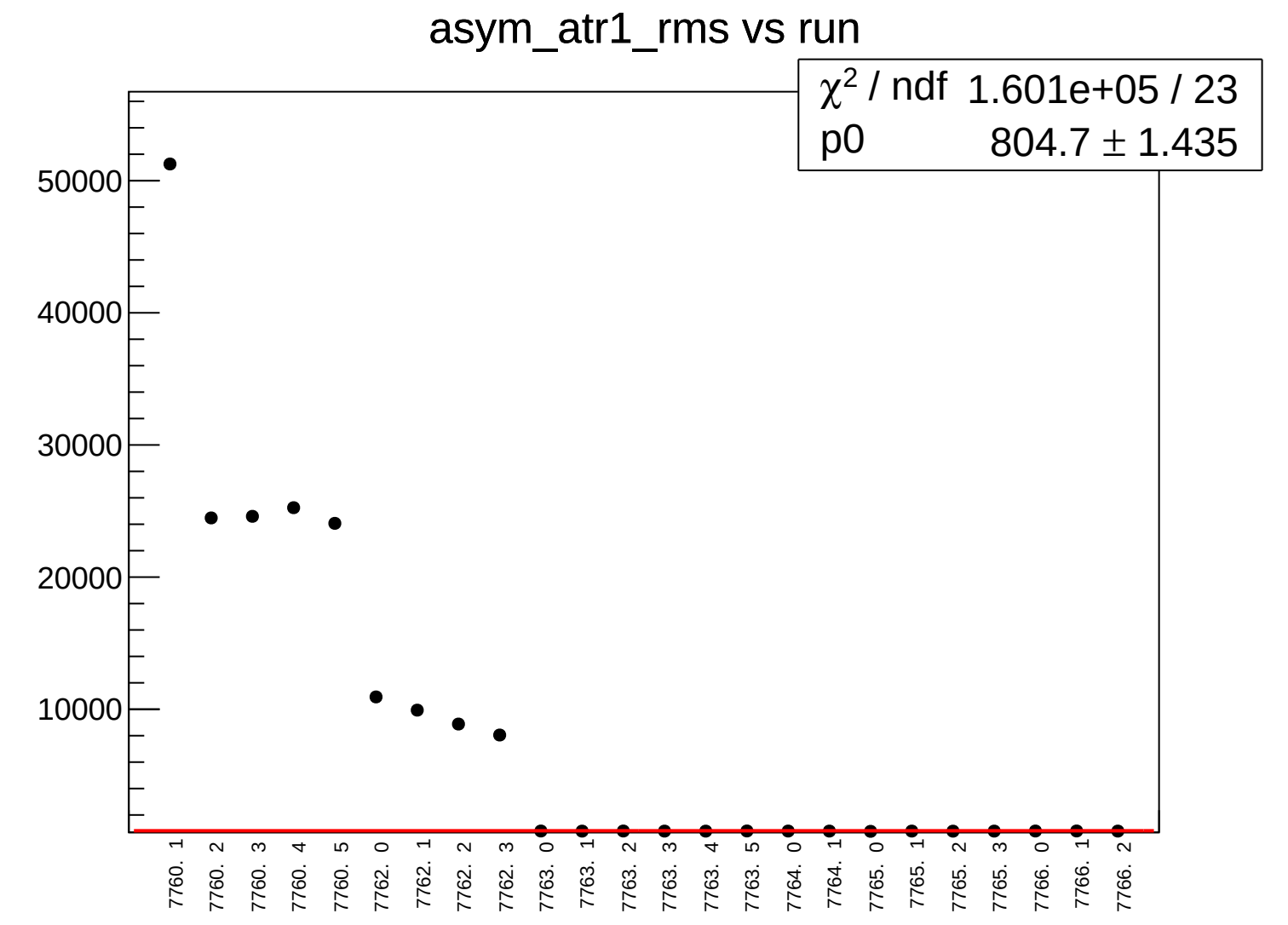

asym_atr1_correction_mean vs run
χ² / ndf 32.75 / 24
p0 7.337 ± 7.117
100
50
0
−50
−100
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 109.3
Std Dev 104.8
1.5
1
0.5
0
−0.5
−1
−1.5
−2

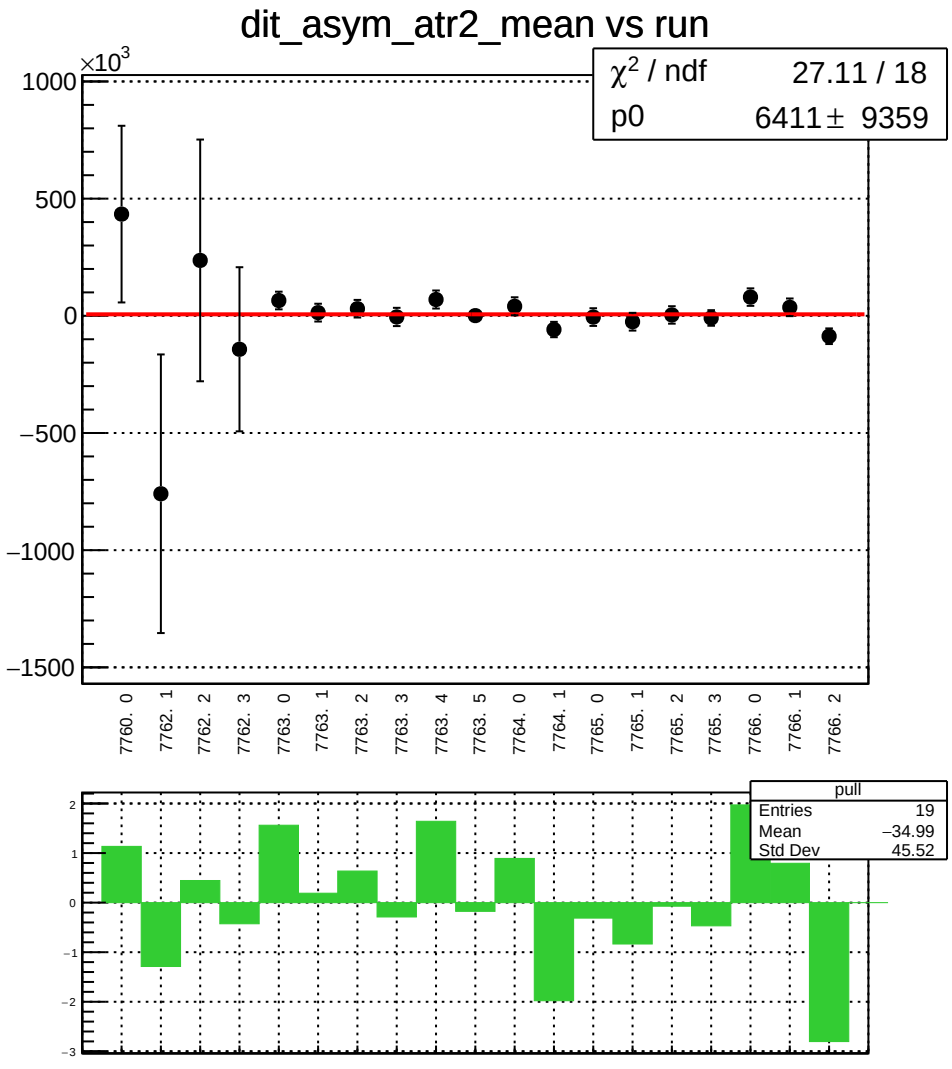

pull1D
Entries 25
Mean 0.01838
Std Dev 1.144
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

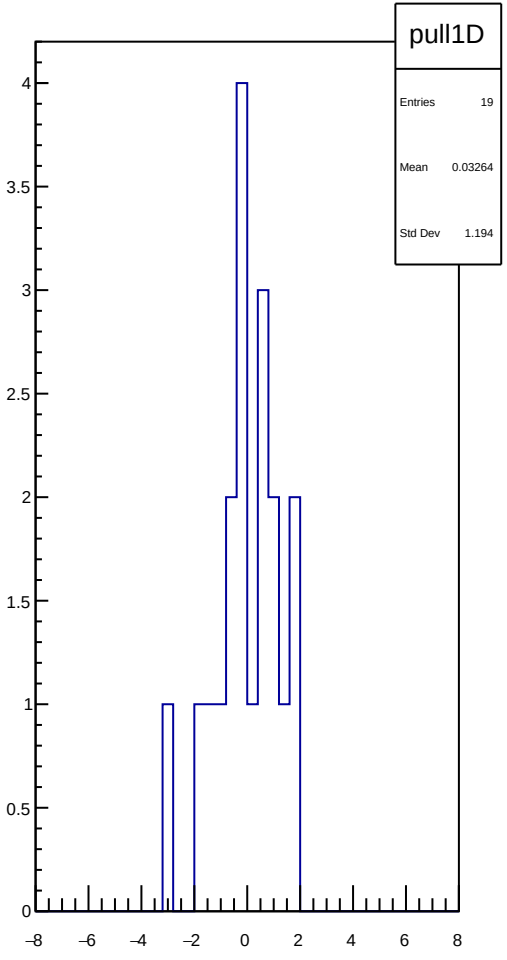

asym_atr1_correction_rms vs run
χ² / ndf 1258 / 24
p0 3.527 ± 0.005032
4
3.8
3.6
3.4
3.2
3
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

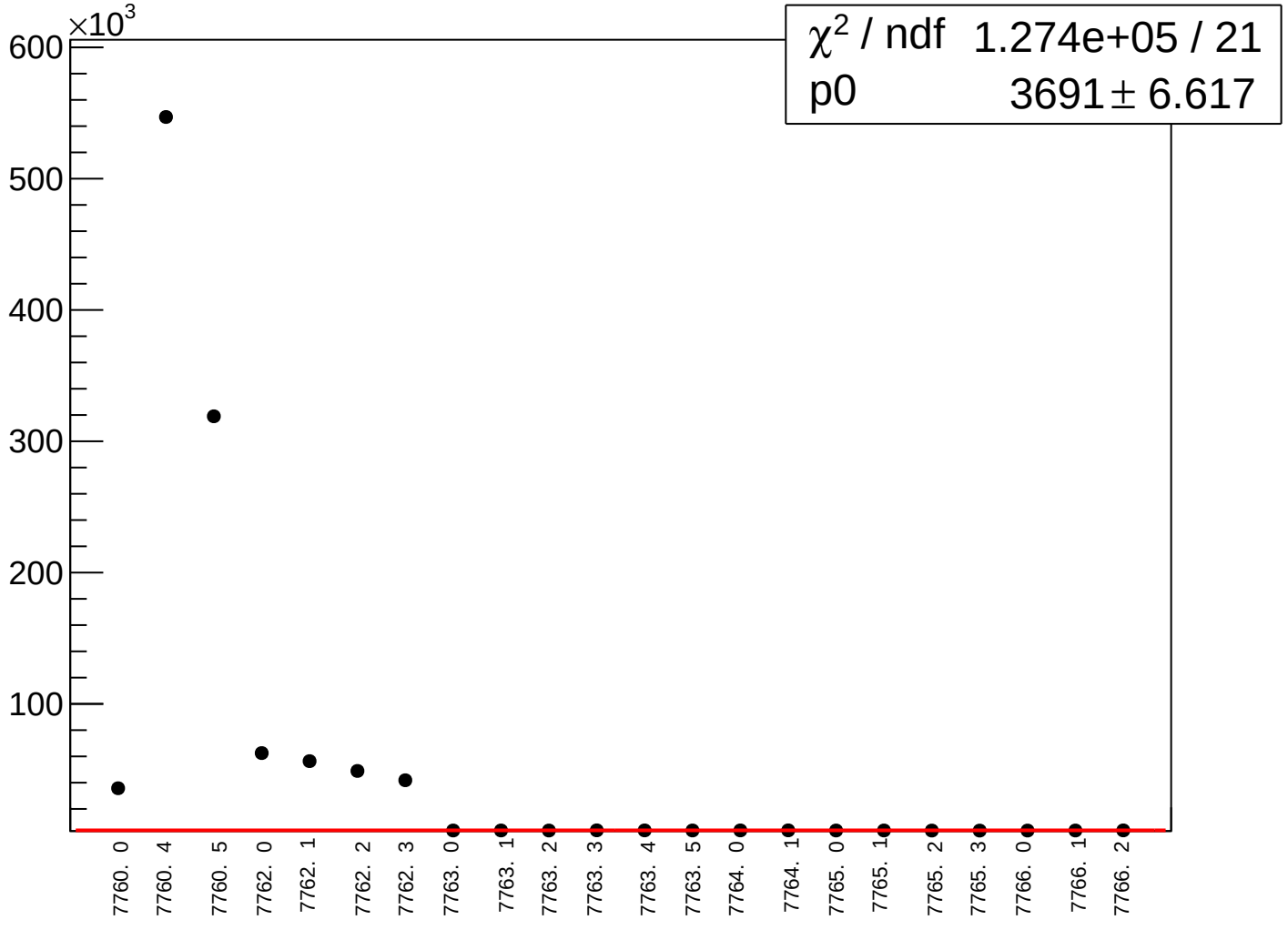

asym_atr1_mean vs run
×10^3
χ² / ndf 26.25 / 23
p0 1633 ± 2029
1400
1200
1000
800
600
400
200
0
−200
−400
−600
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 24
Mean −1.713
Std Dev 14.29
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

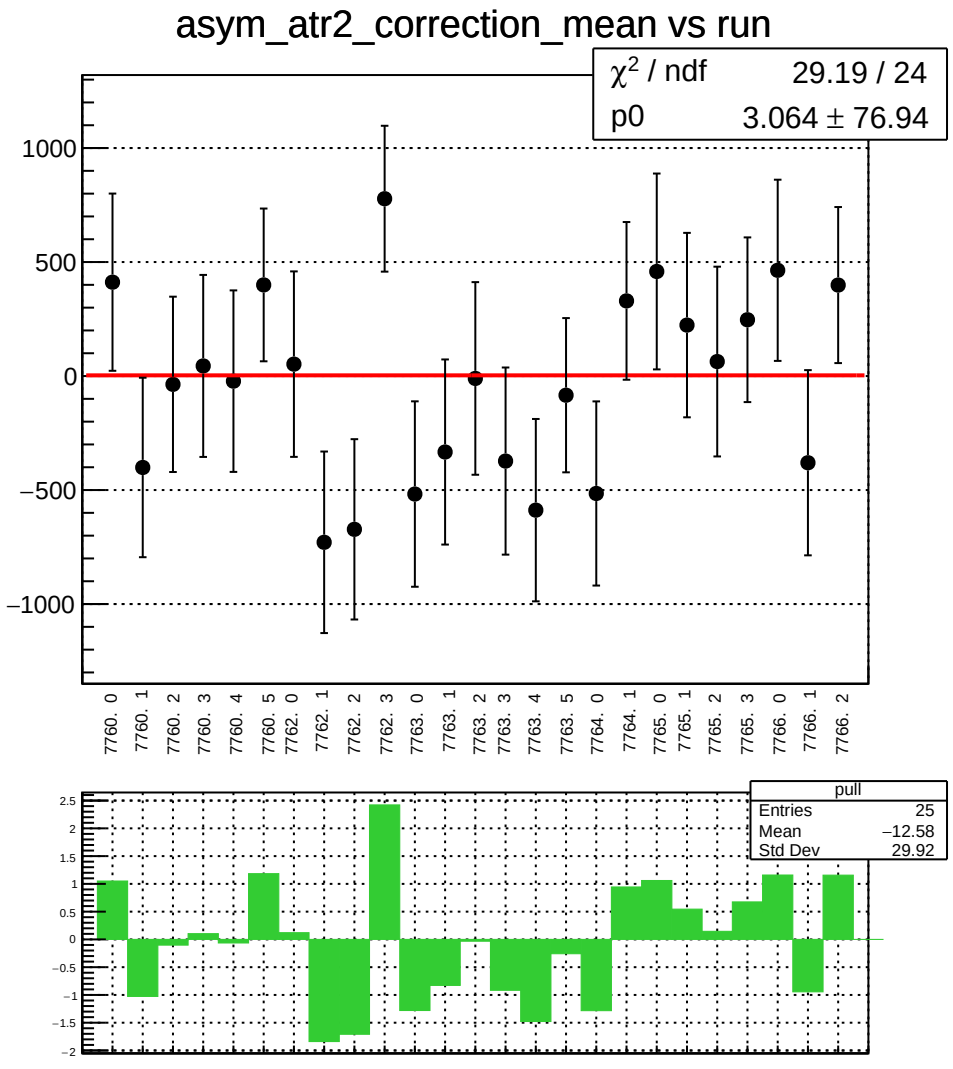

pull1D
Entries 24
Mean 0.1424
Std Dev 1.036
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

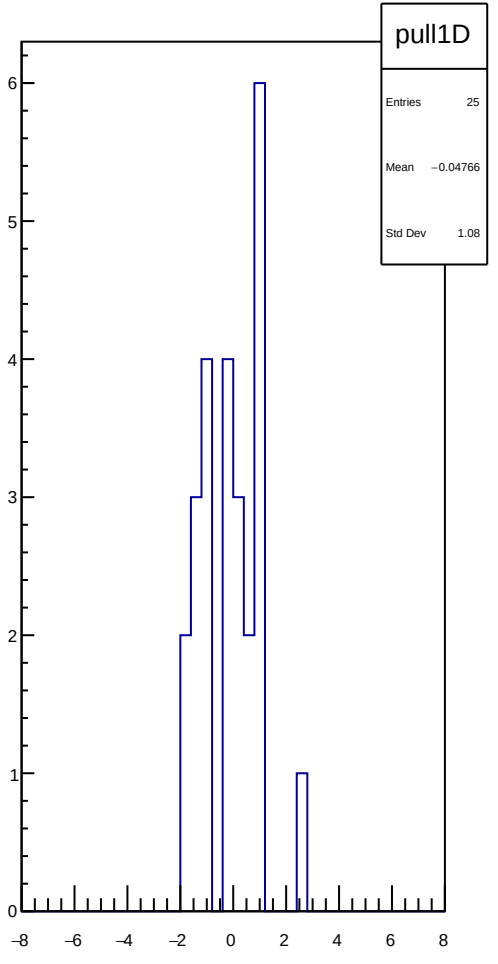

asym_atr1_rms vs run
χ² / ndf 1.601e+05 / 23
p0 804.7 ± 1.435
50000
40000
30000
20000
10000
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

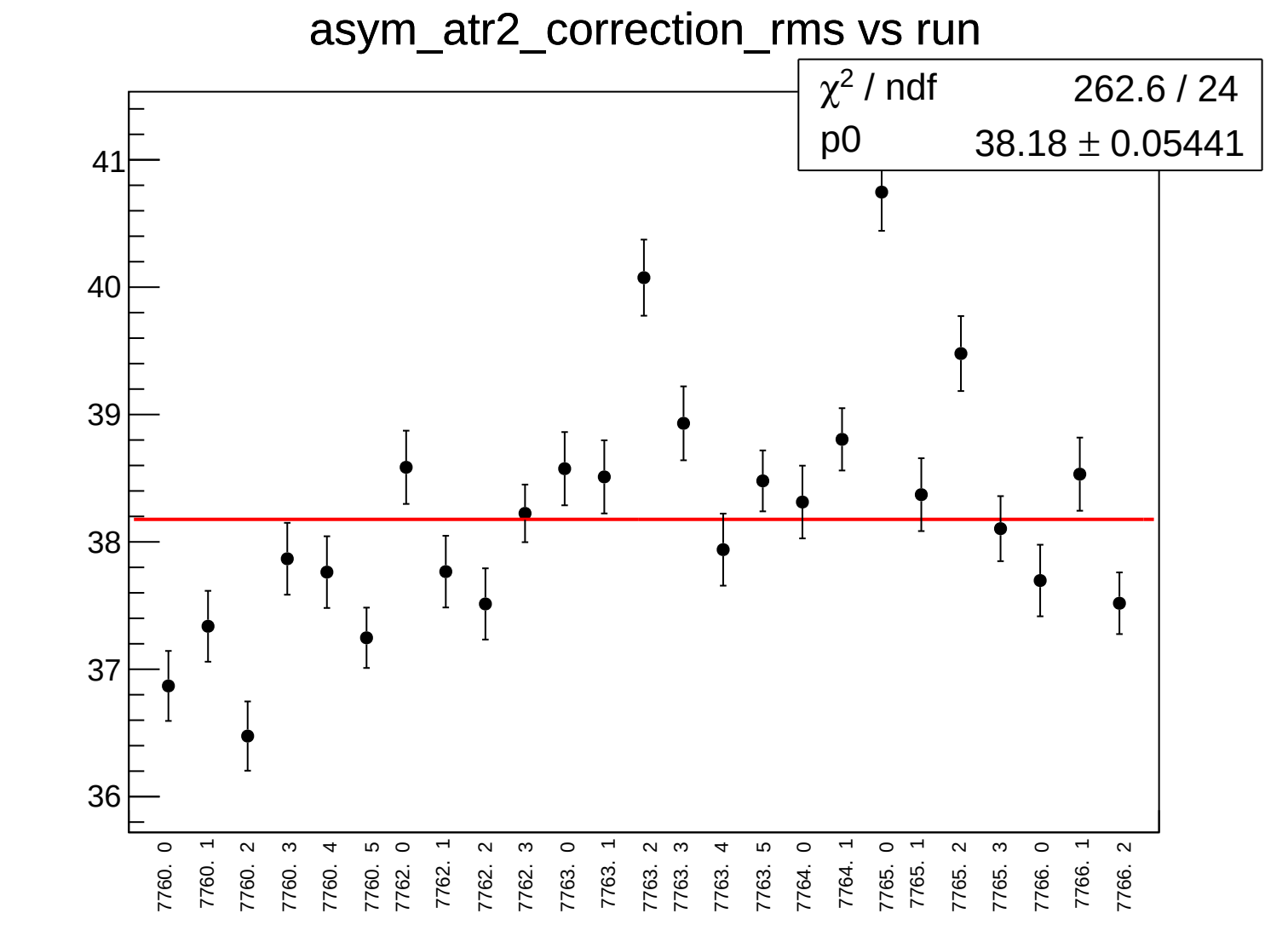

dit_asym_atr2_mean vs run
×10^3
χ^2 / ndf 27.11 / 18
p0 6411 ± 9359
1000
500
0
−500
−1000
−1500
7760. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 19
Mean −34.99
Std Dev 45.52
2
1
0
−1
−2
−3

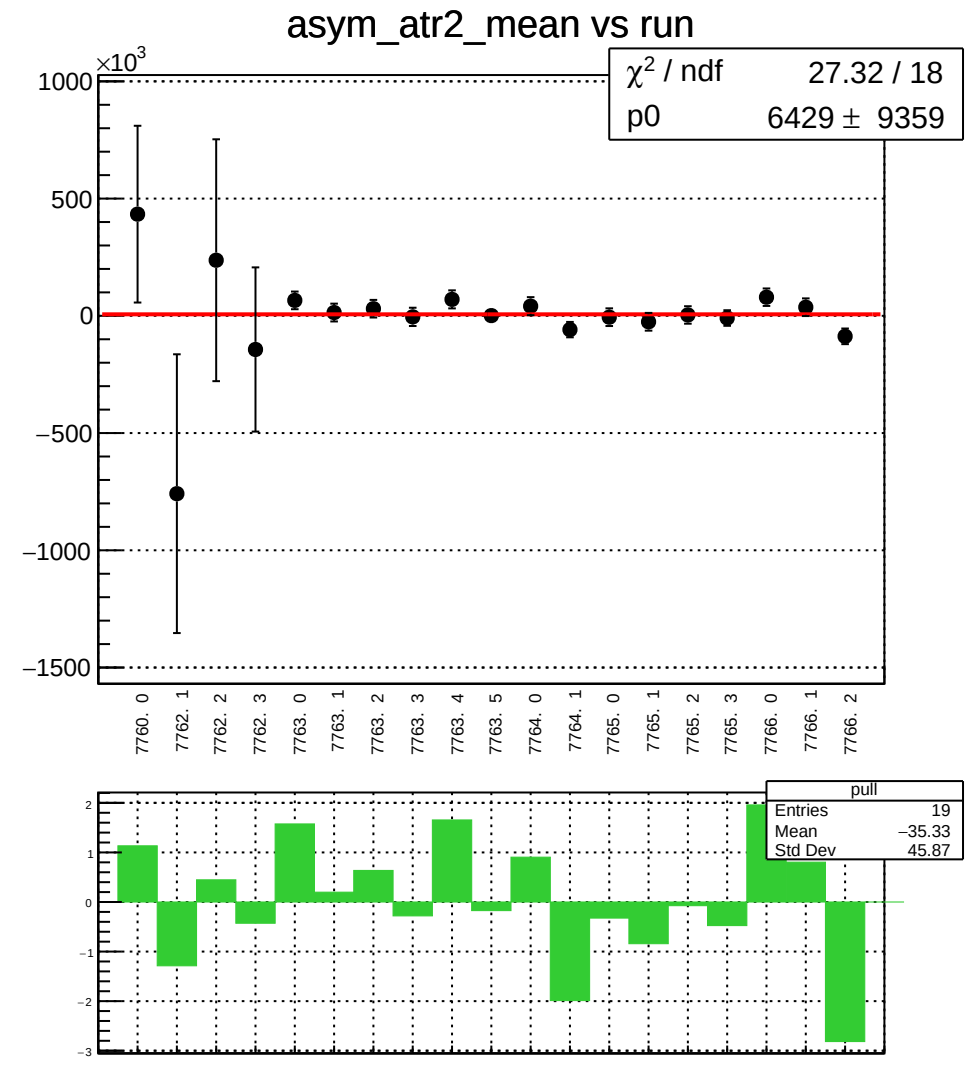

pull1D
Entries 19
Mean 0.03264
Std Dev 1.194
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

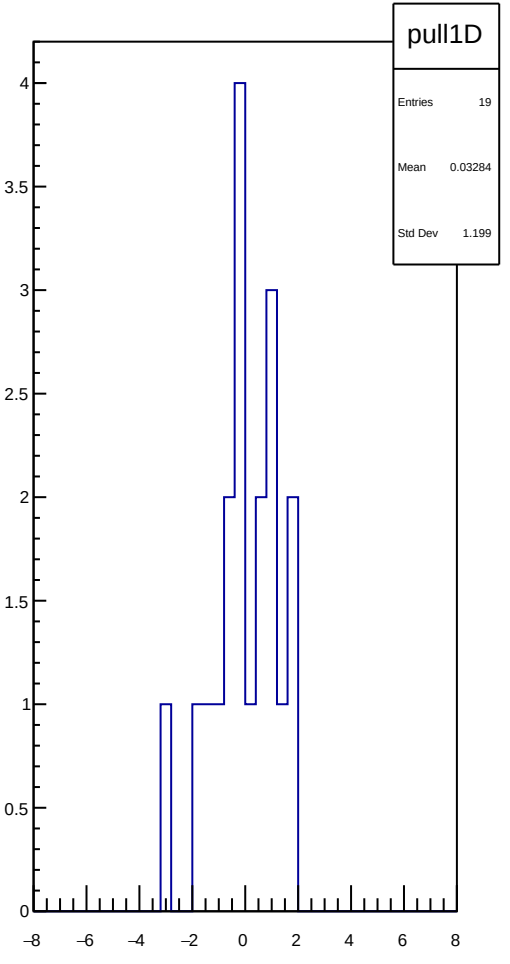

dit_asym_atr2_rms vs run
×10^3
600
500
400
300
200
100
χ² / ndf 1.274e+05 / 21
p0 3691 ± 6.617
7760. 0
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

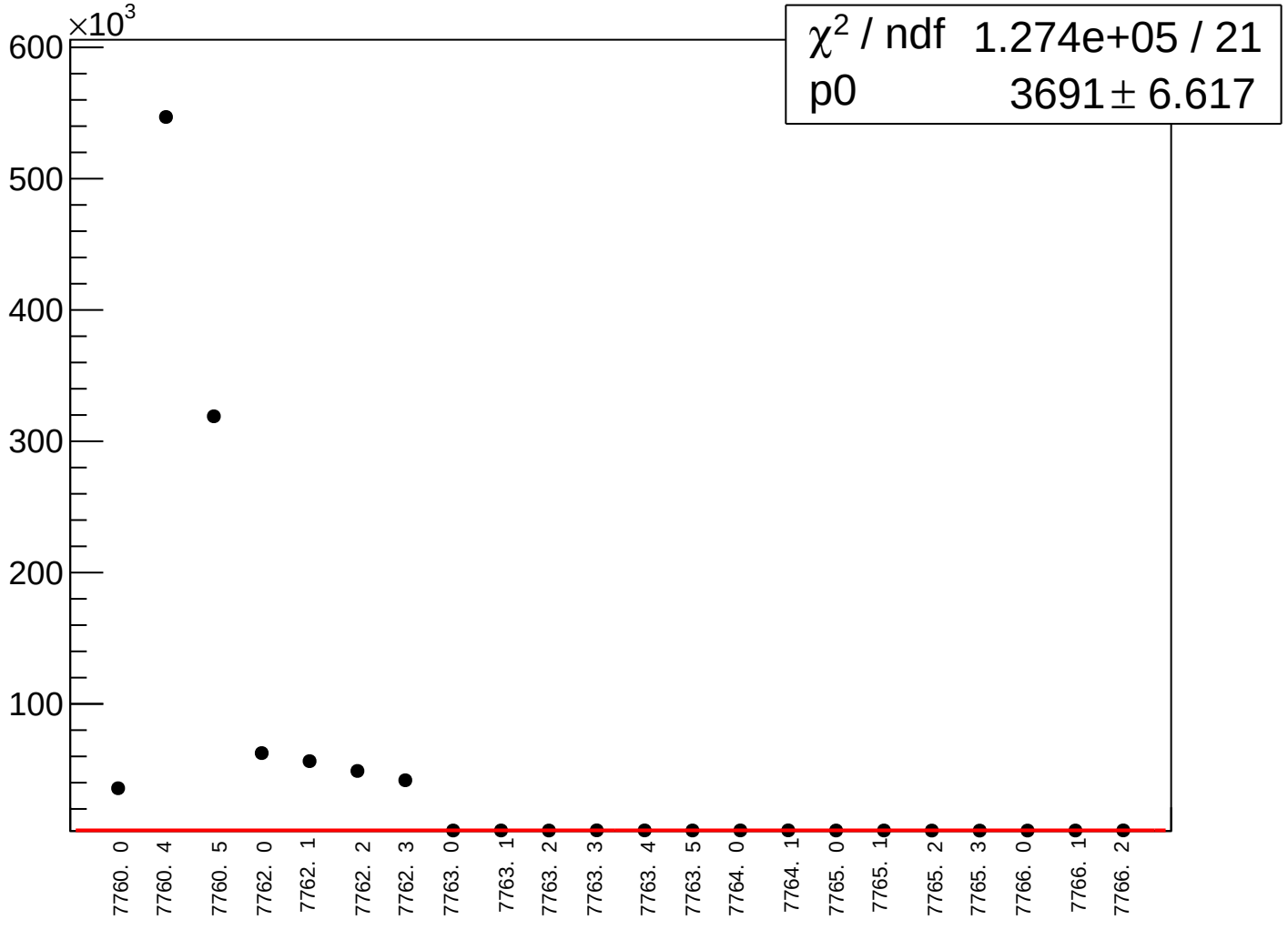

asym_atr2_correction_mean vs run
χ² / ndf 29.19 / 24
p0 3.064 ± 76.94
1000
500
0
−500
−1000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −12.58
Std Dev 29.92
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

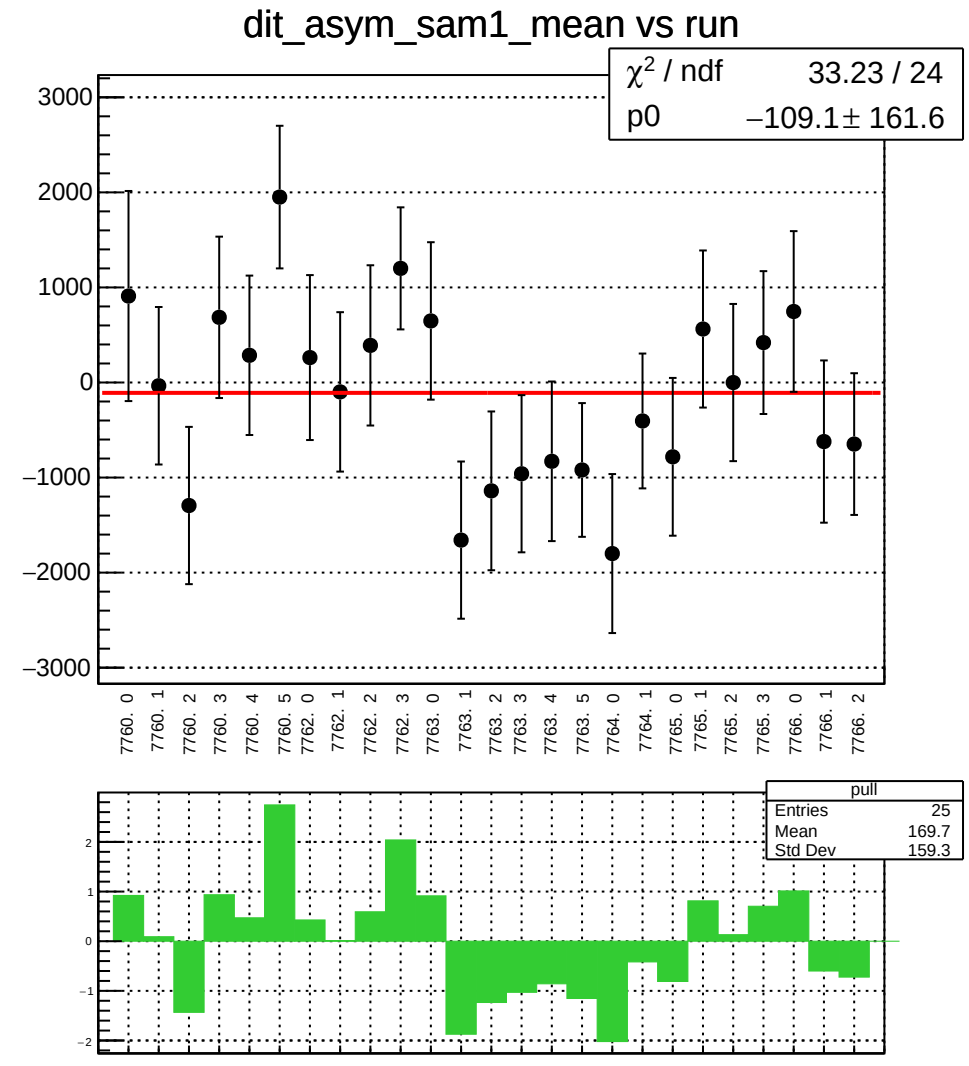

pull1D
Entries 25
Mean −0.04766
Std Dev 1.08
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

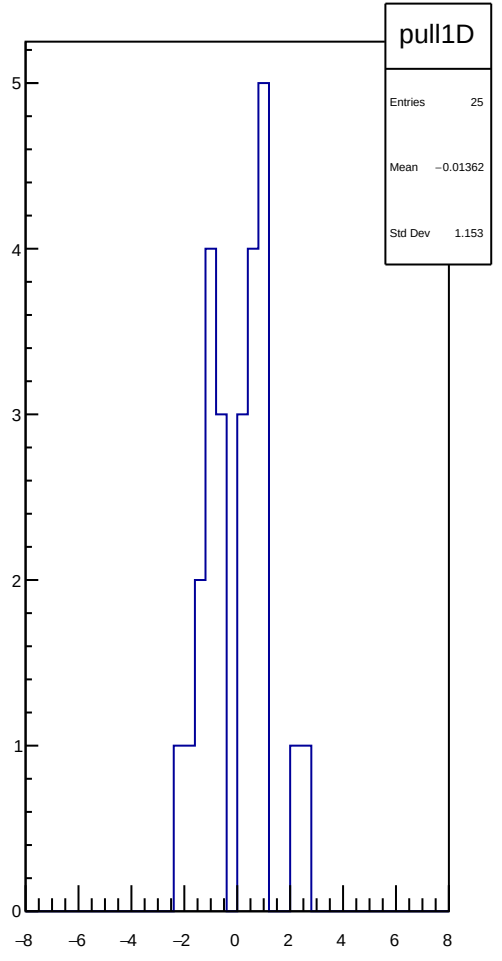

asym_atr2_correction_rms vs run
χ² / ndf 262.6 / 24
p0 38.18 ± 0.05441
41
40
39
38
37
36
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

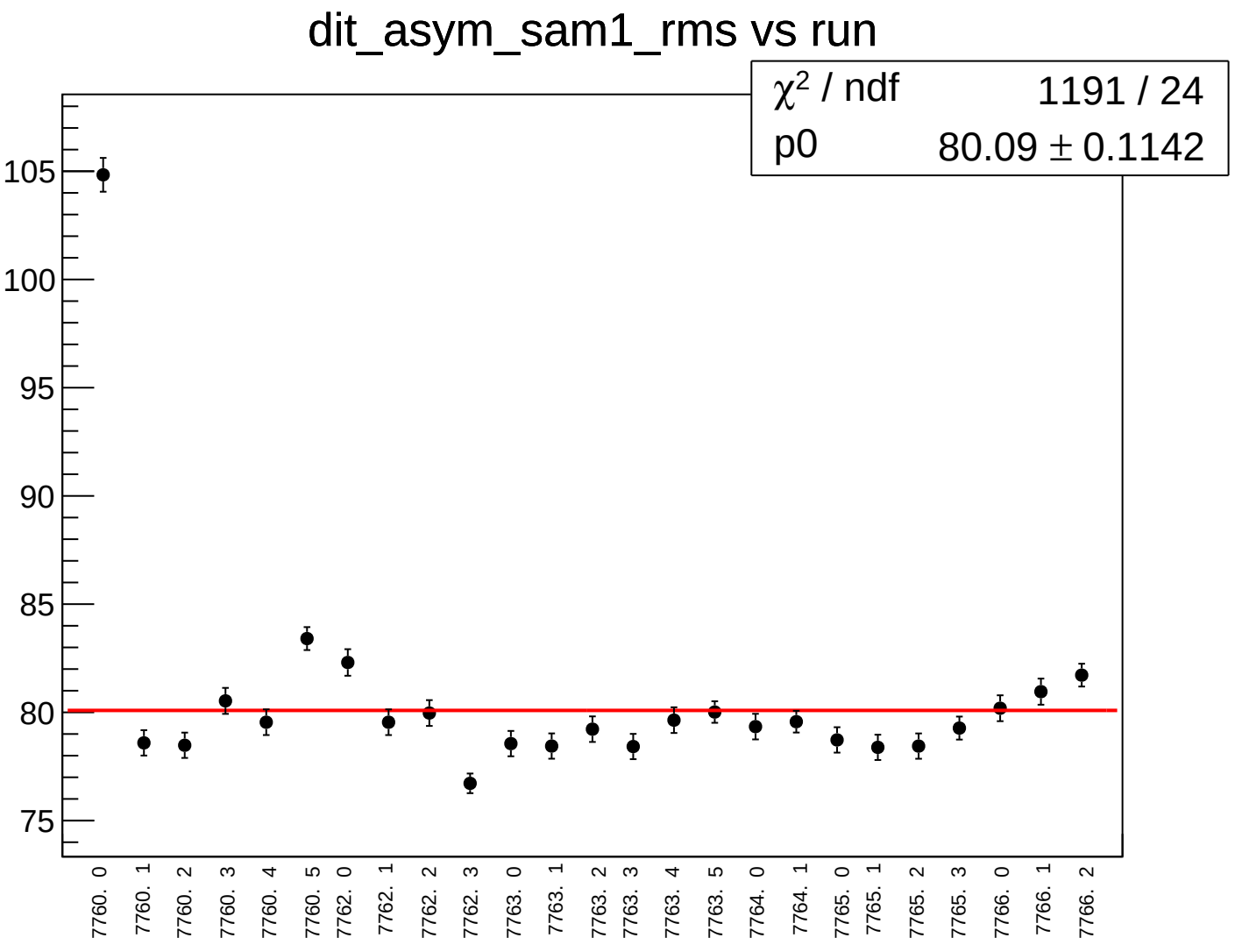

asym_atr2_mean vs run
×10^3
χ^2 / ndf 27.32 / 18
p0 6429 ± 9359
1000
500
0
−500
−1000
−1500
7760. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 19
Mean −35.33
Std Dev 45.87
2
1
0
−1
−2
−3

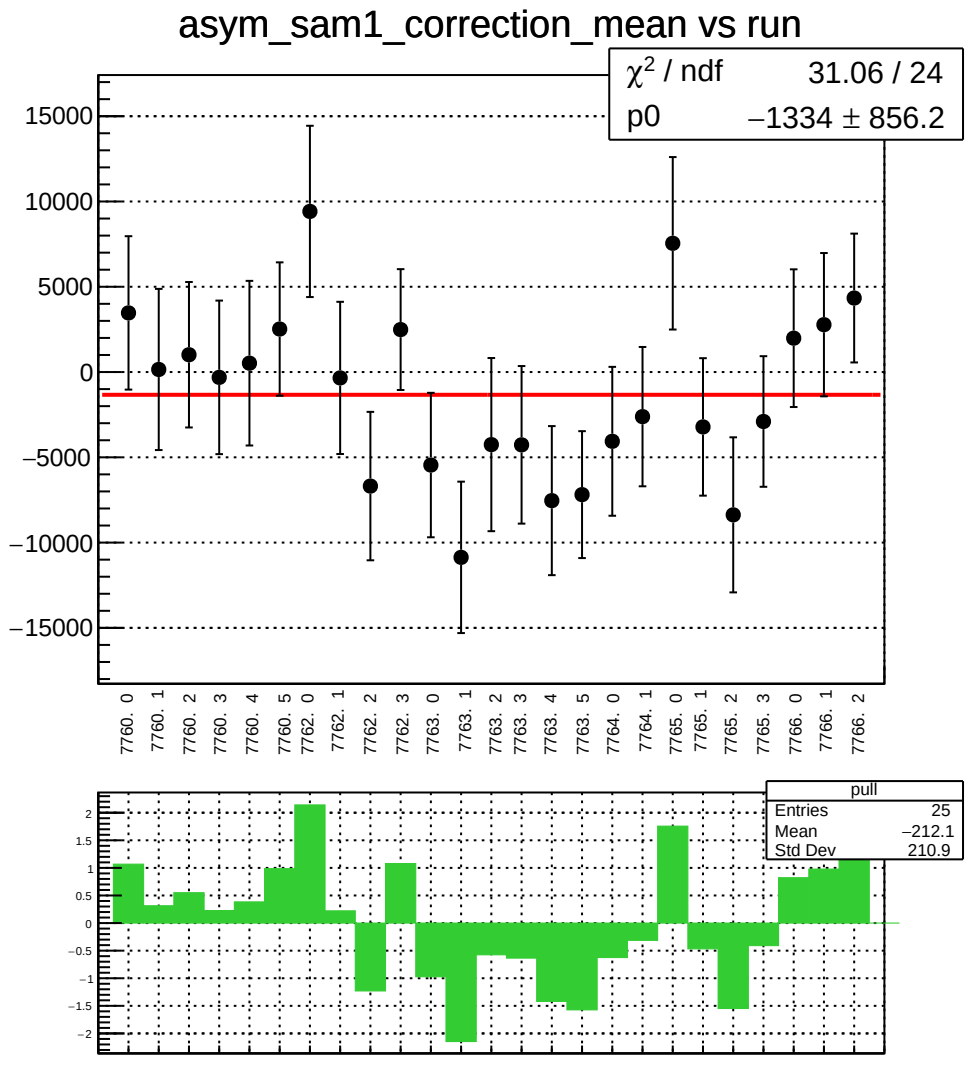

pull1D
Entries 19
Mean 0.03284
Std Dev 1.199
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

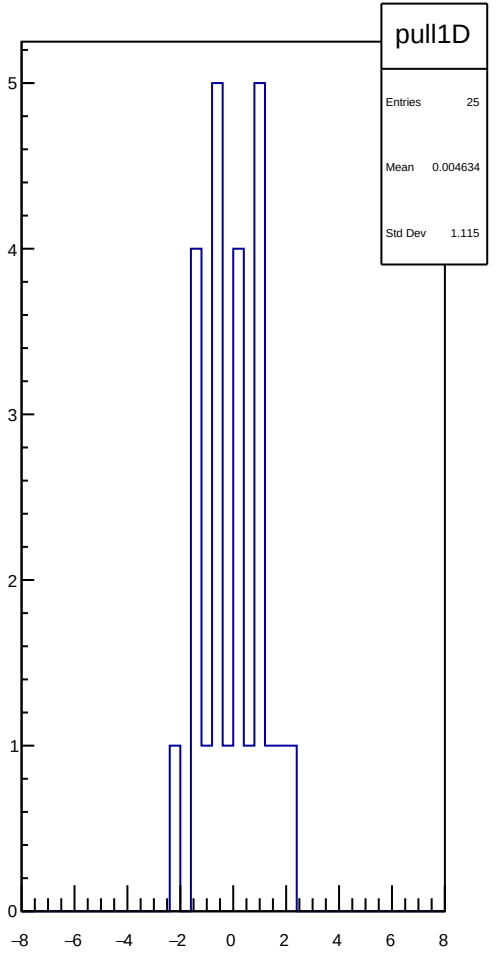

asym_atr2_rms vs run
×10^3
600
500
400
300
200
100
χ² / ndf 1.274e+05 / 21
p0 3691 ± 6.617
7760. 0
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

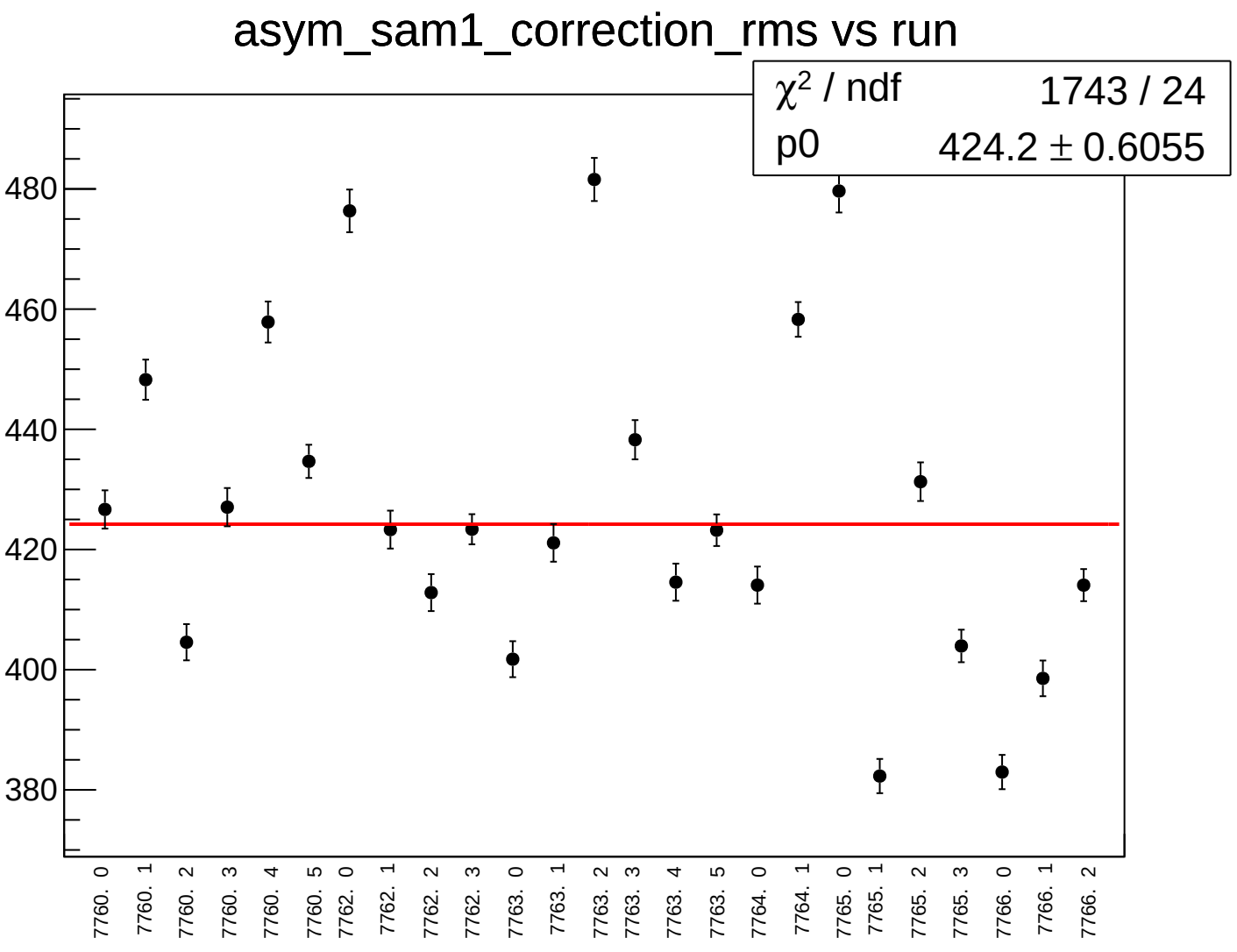

dit_asym_sam1_mean vs run
χ² / ndf 33.23 / 24
p0 −109.1± 161.6
3000
2000
1000
0
−1000
−2000
−3000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 169.7
Std Dev 159.3
2
1
0
−1
−2

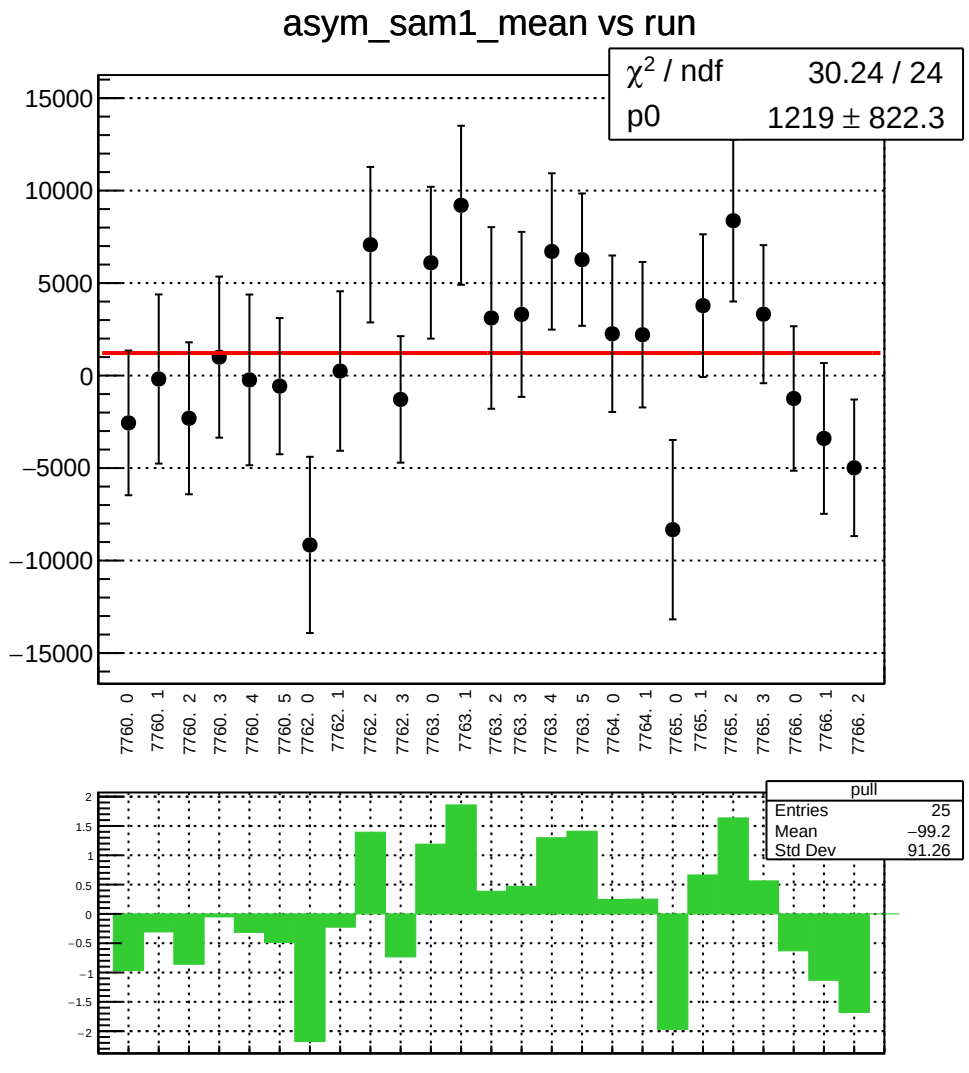

pull1D
Entries 25
Mean −0.01362
Std Dev 1.153
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

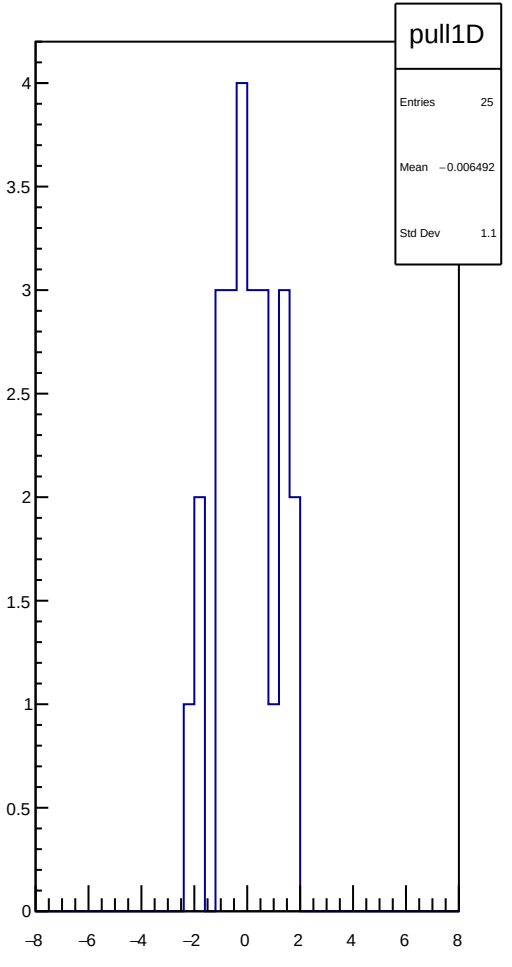

dit_asym_sam1_rms vs run
χ² / ndf 1191 / 24
p0 80.09 ± 0.1142
105
100
95
90
85
80
75
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

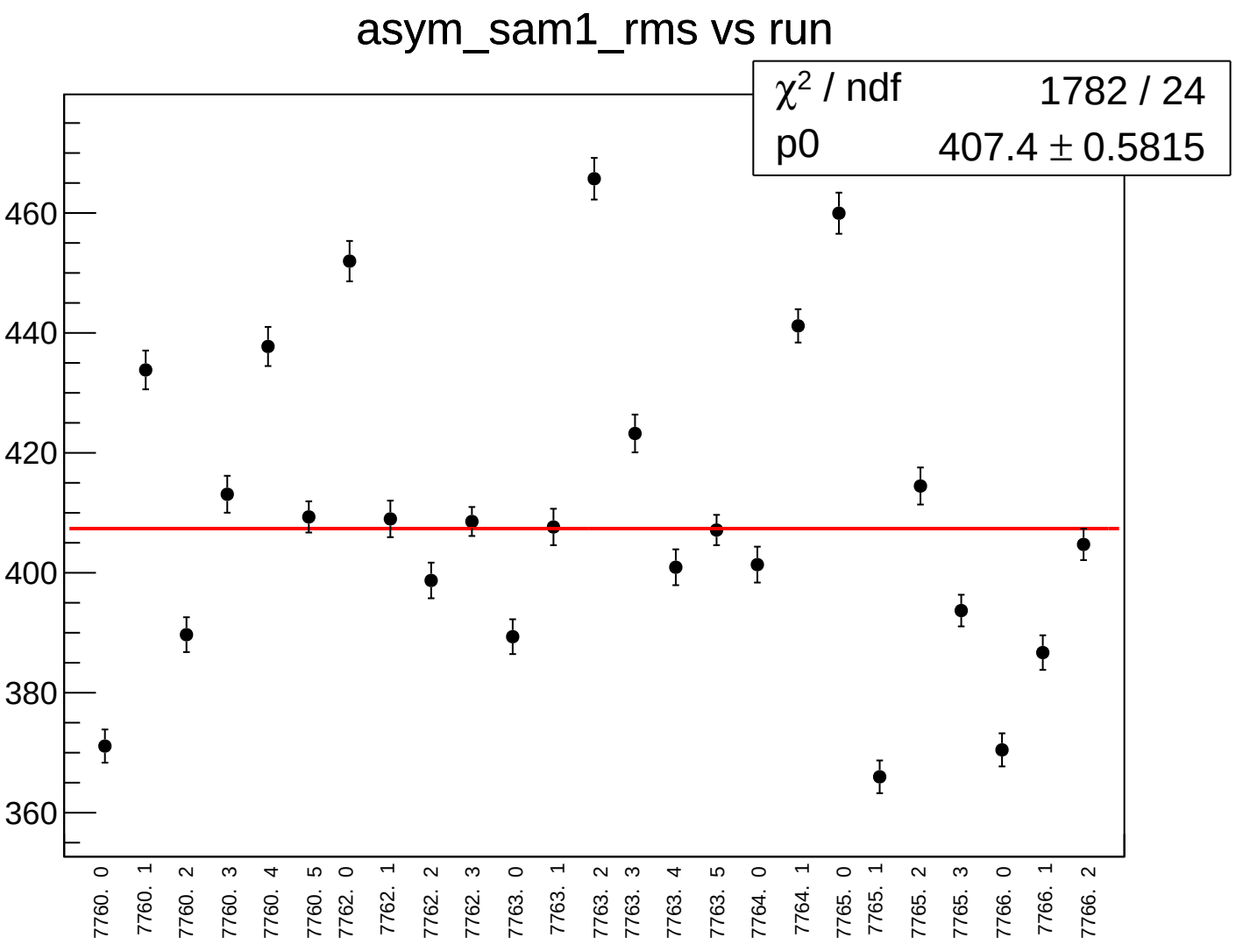

asym_sam1_correction_mean vs run
χ² / ndf 31.06 / 24
p0 −1334 ± 856.2
15000
10000
5000
0
−5000
−10000
−15000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −212.1
Std Dev 210.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

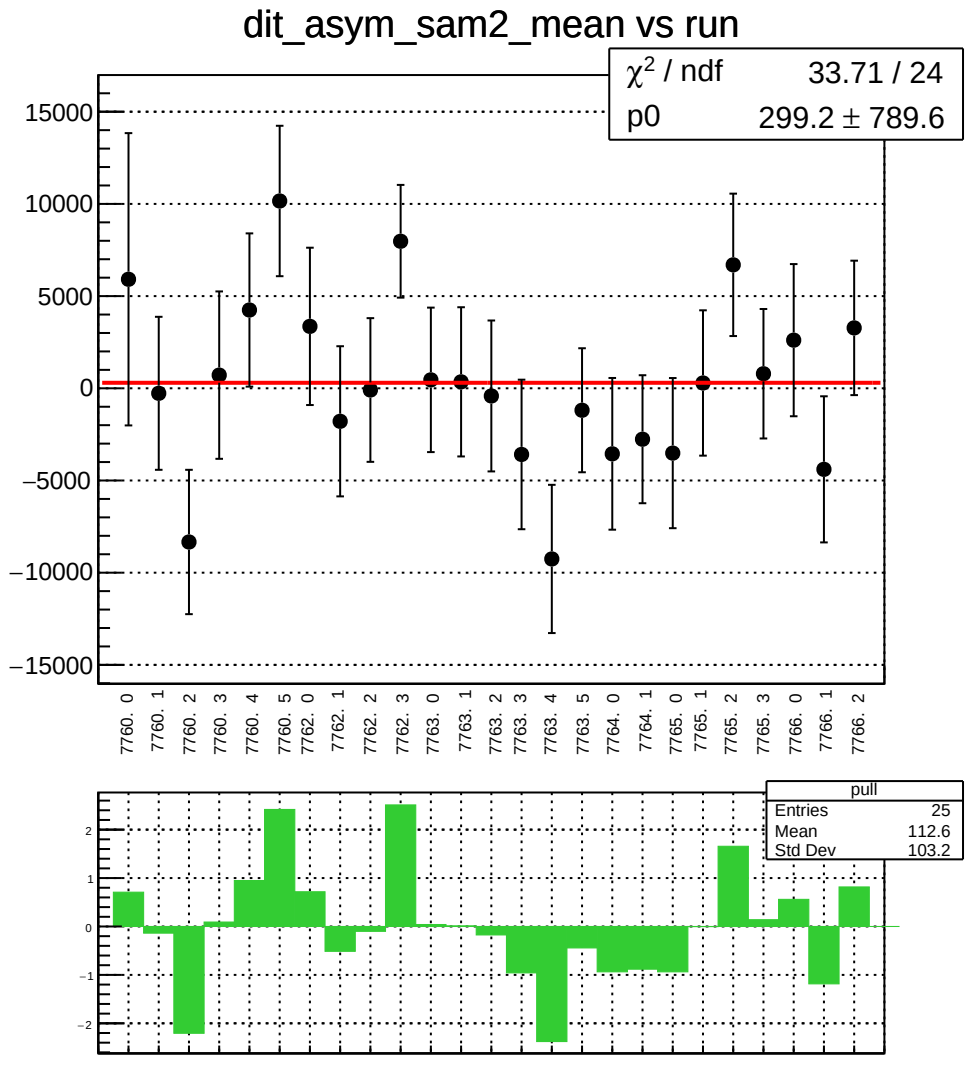

pull1D
Entries 25
Mean 0.004634
Std Dev 1.115
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

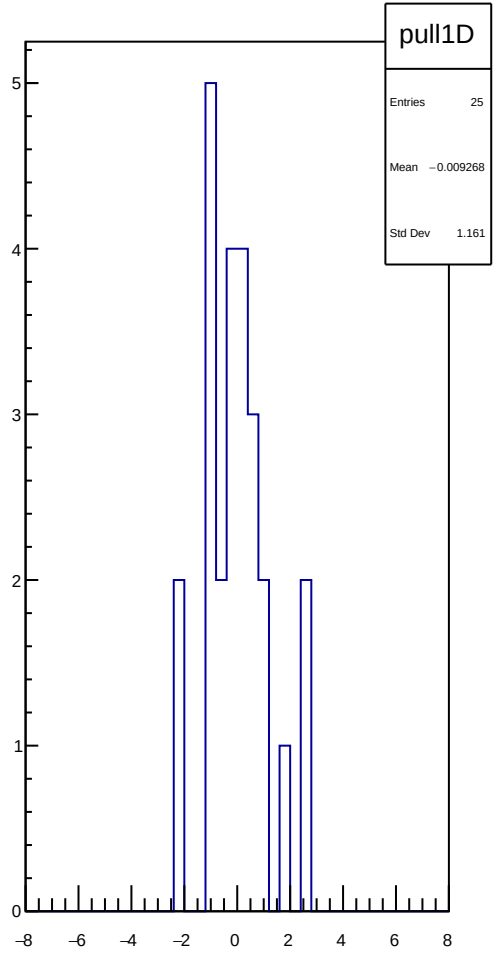

asym_sam1_correction_rms vs run
χ² / ndf 1743 / 24
p0 424.2 ± 0.6055
480
460
440
420
400
380
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

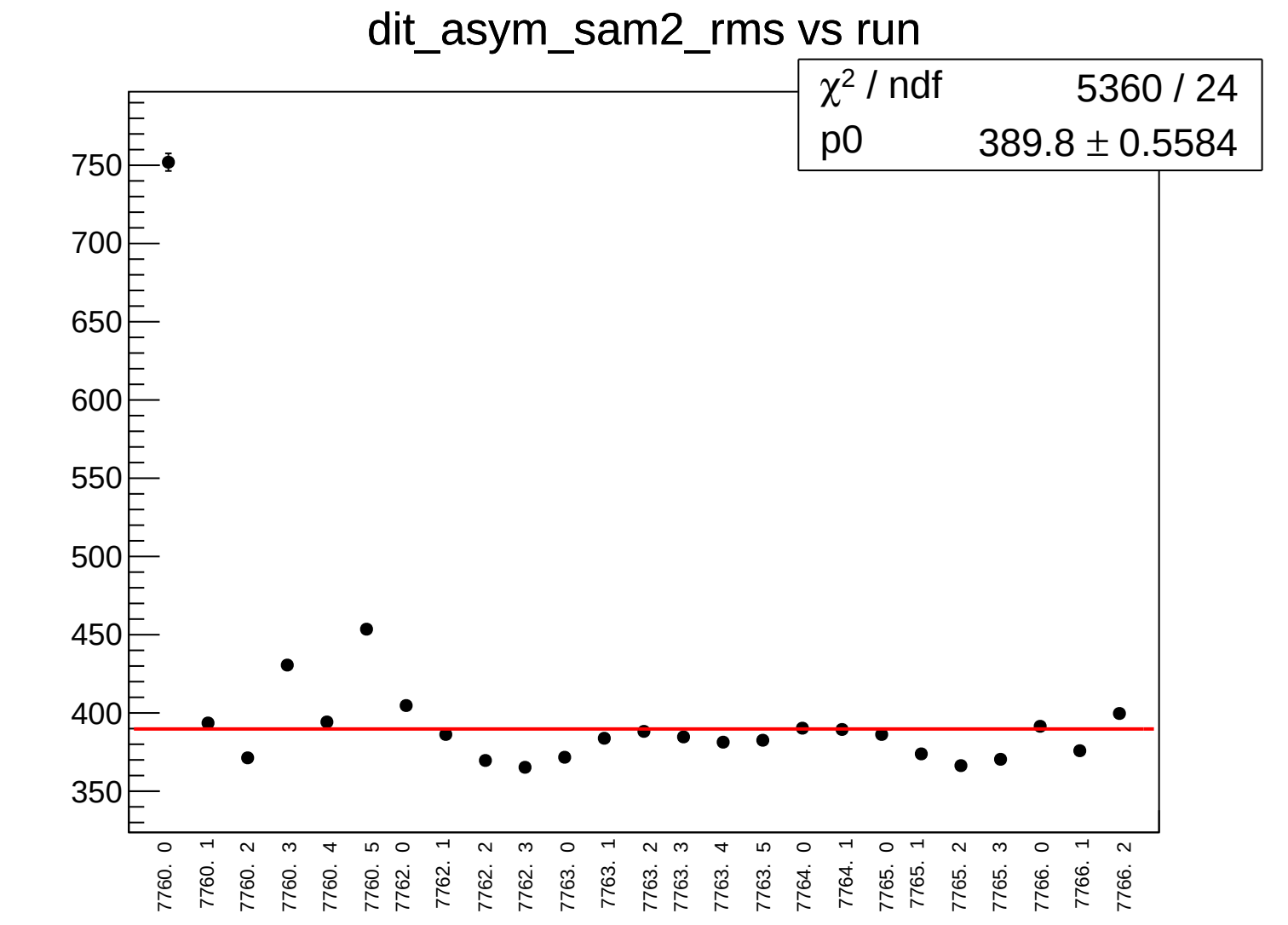

asym_sam1_mean vs run
χ² / ndf 30.24 / 24
p0 1219 ± 822.3
15000
10000
5000
0
−5000
−10000
−15000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −99.2
Std Dev 91.26
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

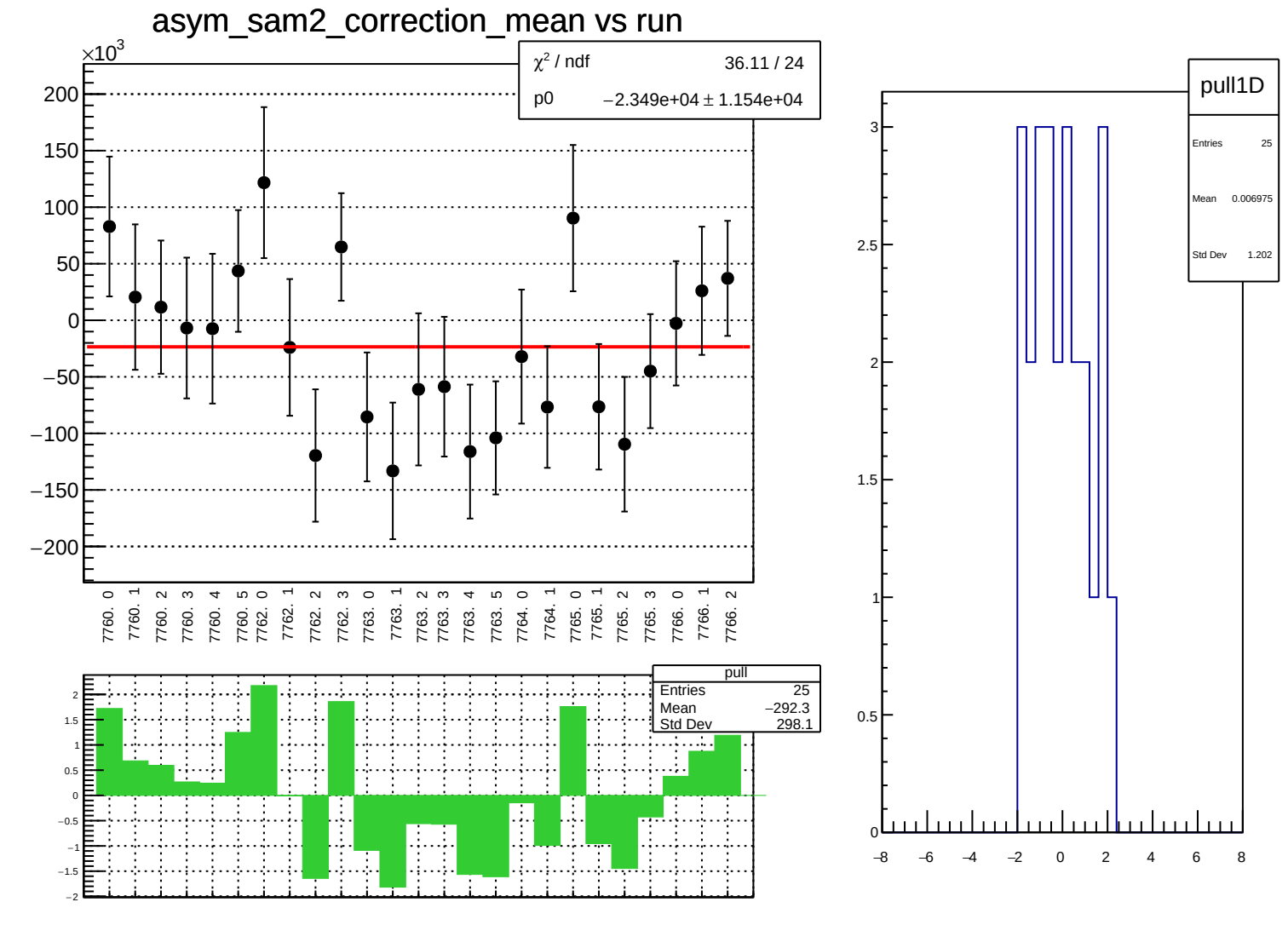

pull1D
Entries 25
Mean −0.006492
Std Dev 1.1
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

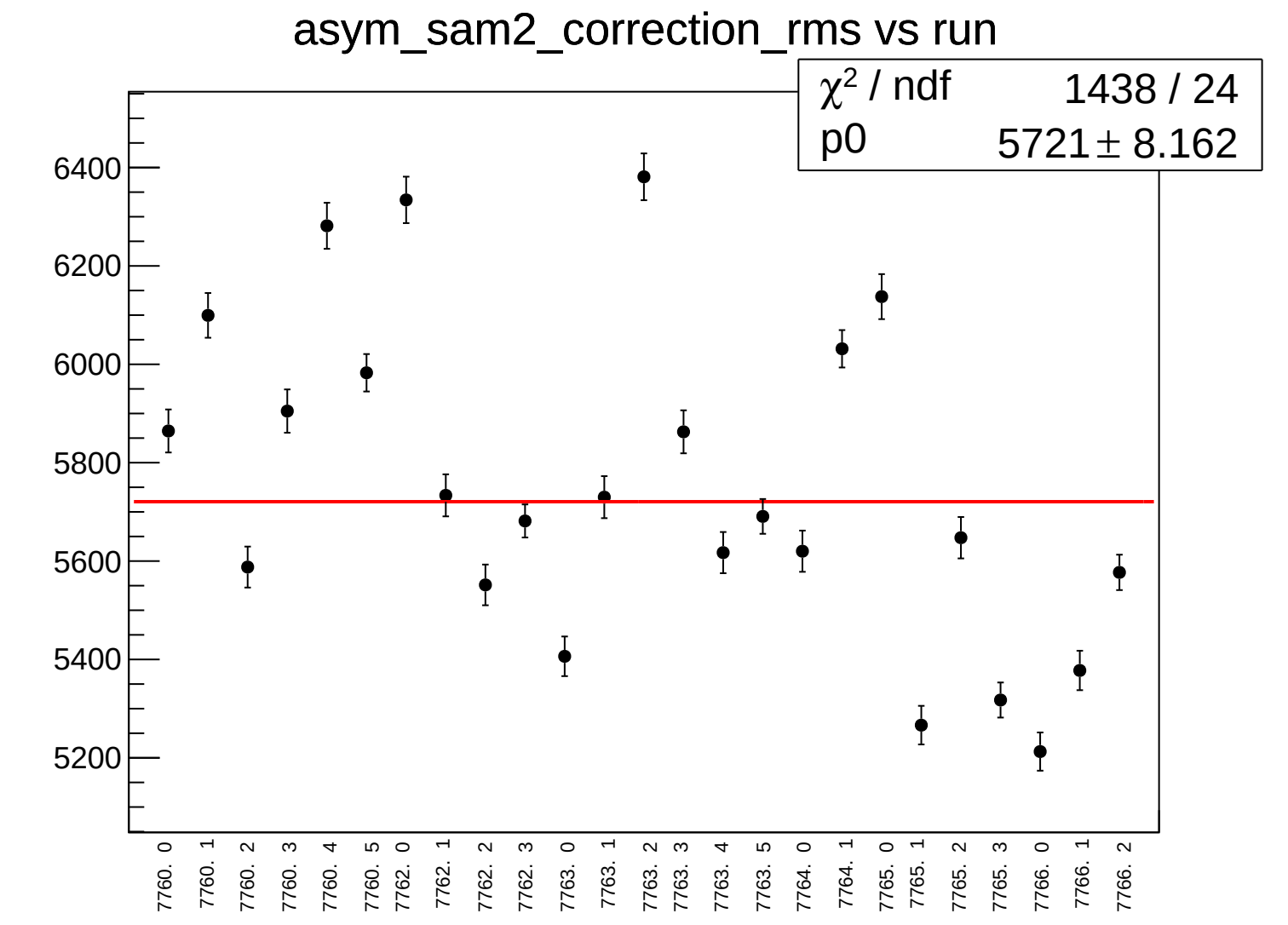

asym_sam1_rms vs run
χ² / ndf 1782 / 24
p0 407.4 ± 0.5815
460
440
420
400
380
360
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

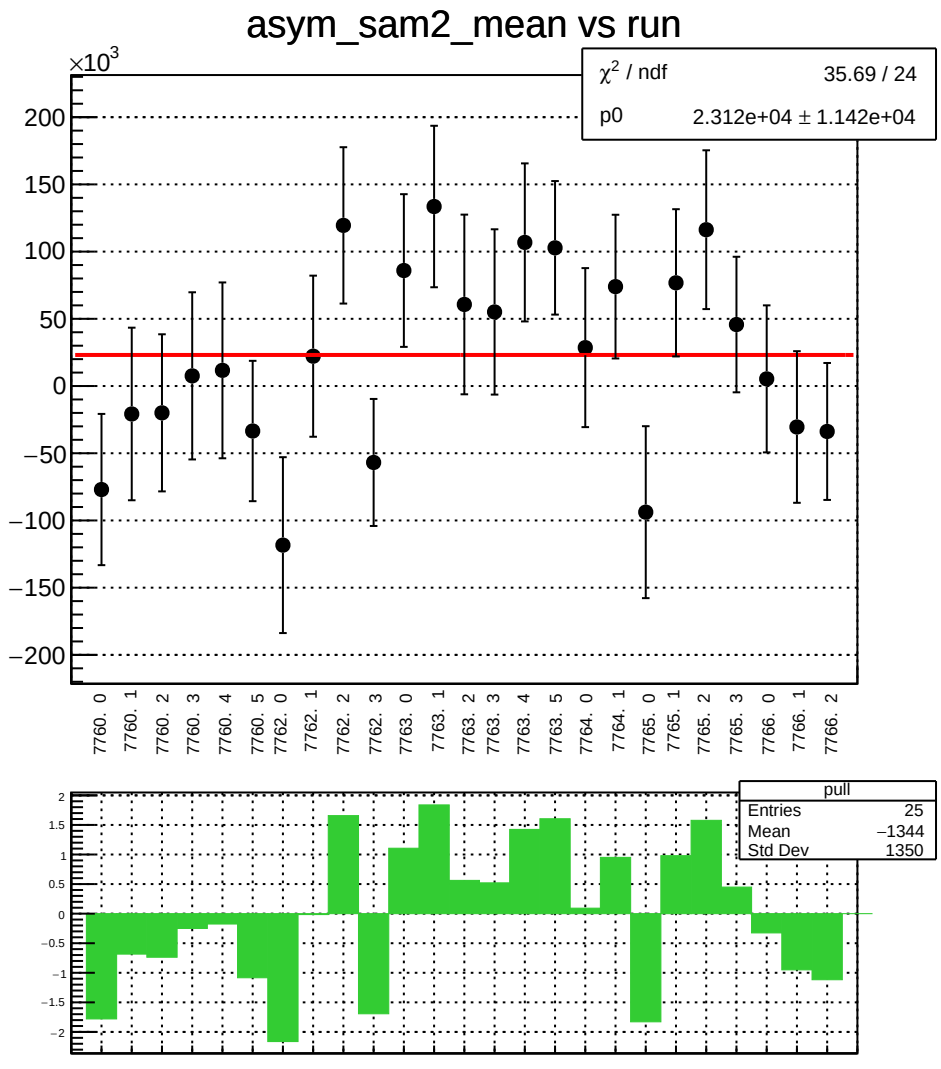

dit_asym_sam2_mean vs run
χ² / ndf 33.71 / 24
p0 299.2 ± 789.6
15000
10000
5000
0
−5000
−10000
−15000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 112.6
Std Dev 103.2
2
1
0
−1
−2

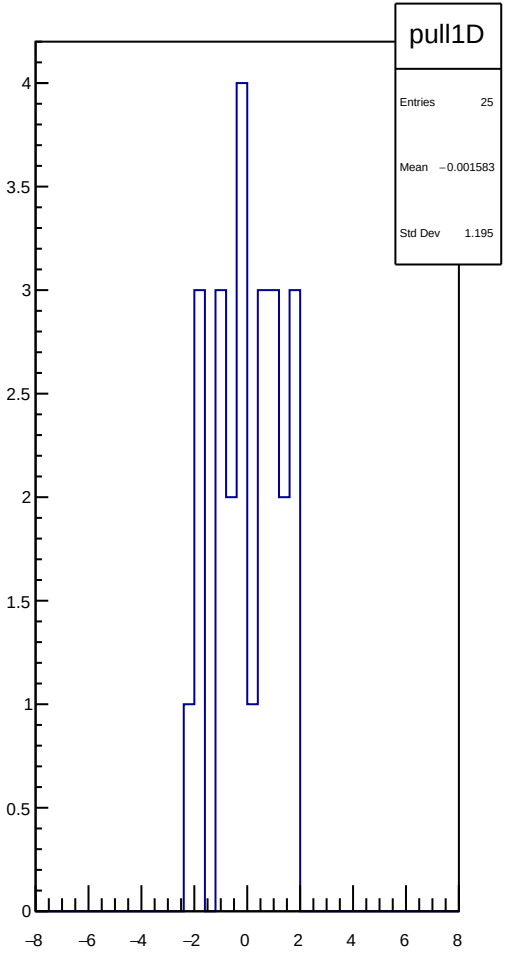

pull1D
Entries 25
Mean −0.009268
Std Dev 1.161
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

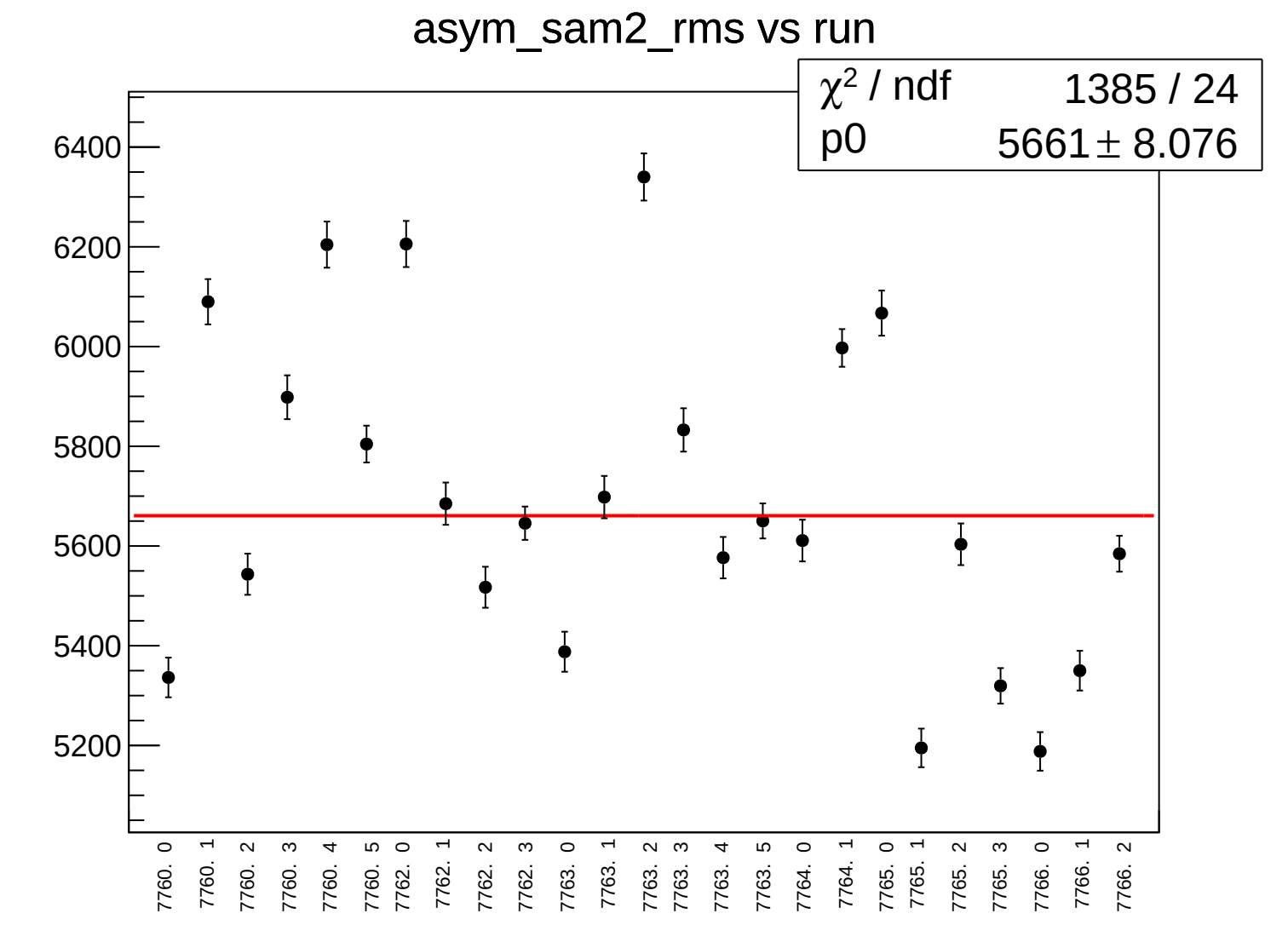

dit_asym_sam2_rms vs run
χ² / ndf 5360 / 24
p0 389.8 ± 0.5584
750
700
650
600
550
500
450
400
350
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

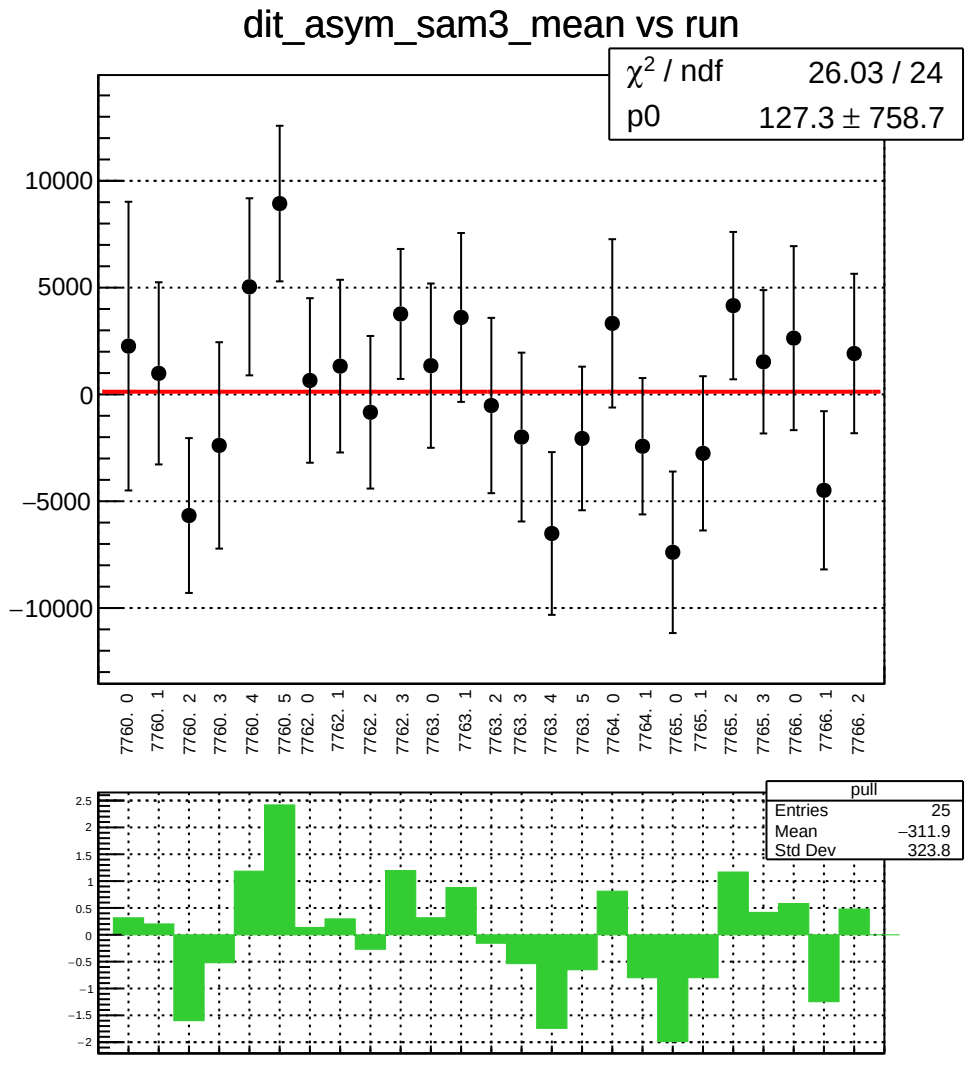

asym_sam2_correction_mean vs run
×10^3
χ² / ndf 36.11 / 24
p0 −2.349e+04 ± 1.154e+04
200
150
100
50
0
−50
−100
−150
−200
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −292.3
Std Dev 298.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 25
Mean 0.006975
Std Dev 1.202
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

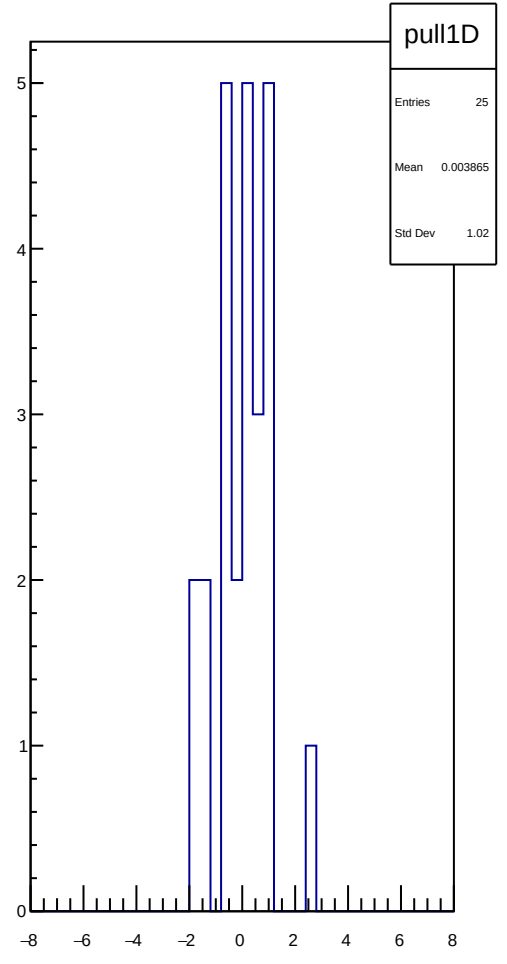

asym_sam2_correction_rms vs run
χ² / ndf 1438 / 24
p0 5721 ± 8.162
6400
6200
6000
5800
5600
5400
5200
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

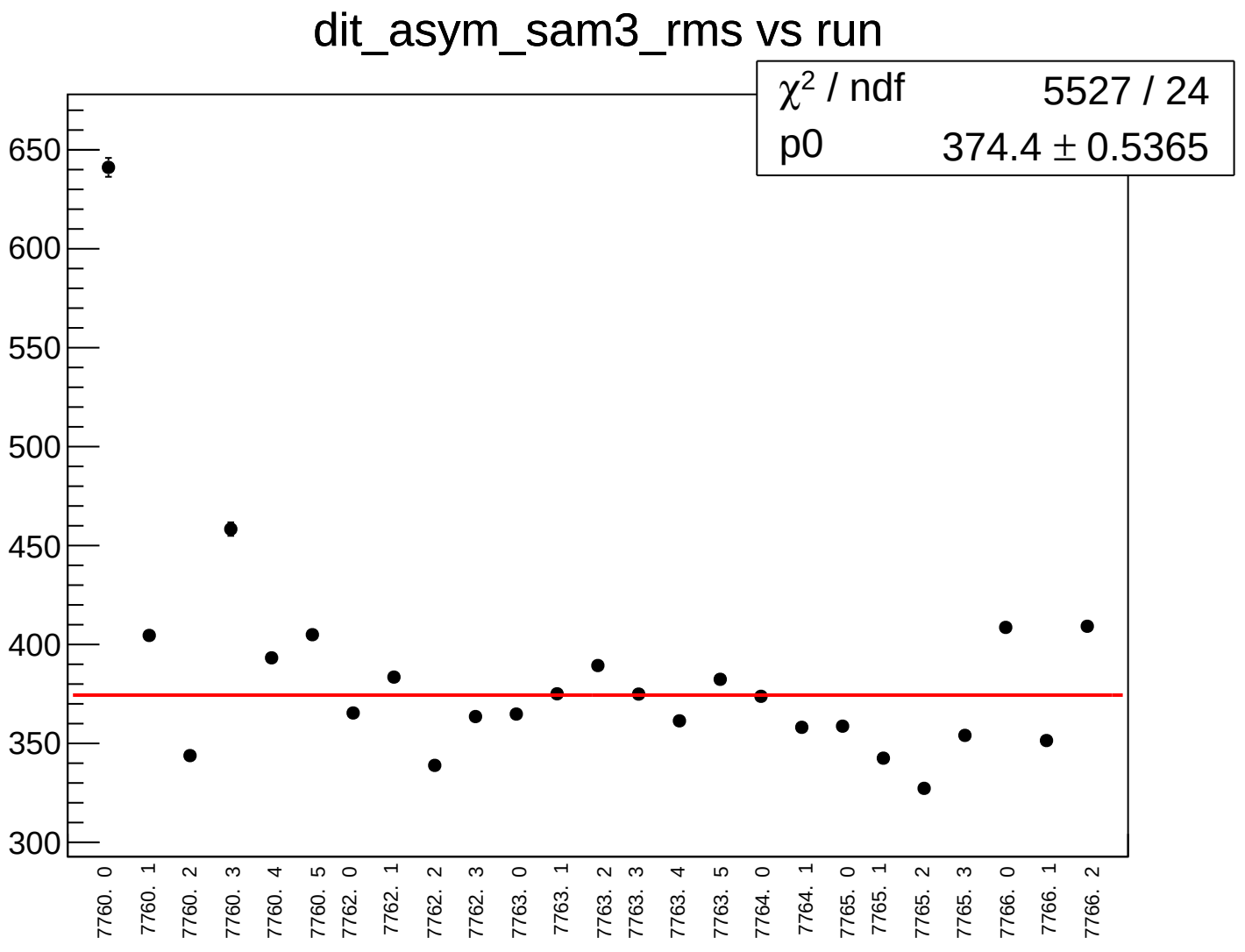

asym_sam2_mean vs run
×10^3
χ² / ndf 35.69 / 24
p0 2.312e+04 ± 1.142e+04
200
150
100
50
0
−50
−100
−150
−200
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −1344
Std Dev 1350
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

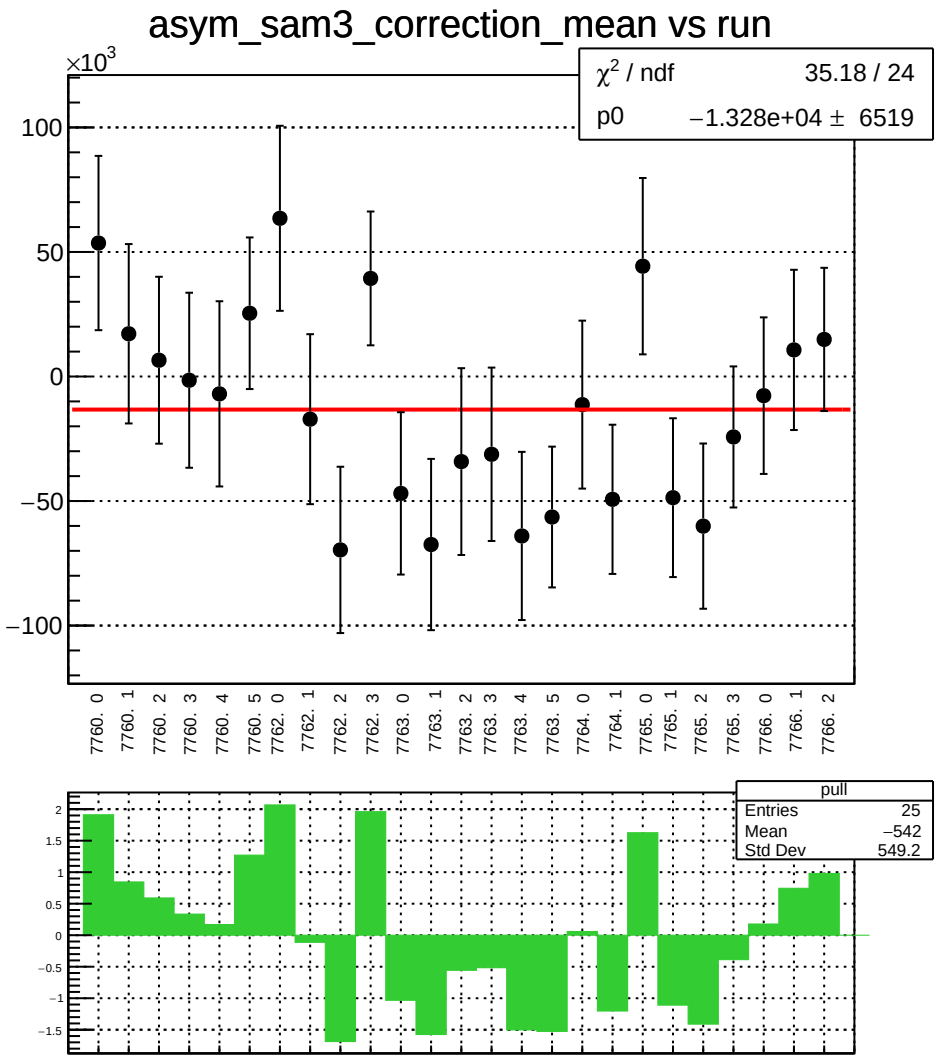

pull1D
Entries 25
Mean −0.001583
Std Dev 1.195
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

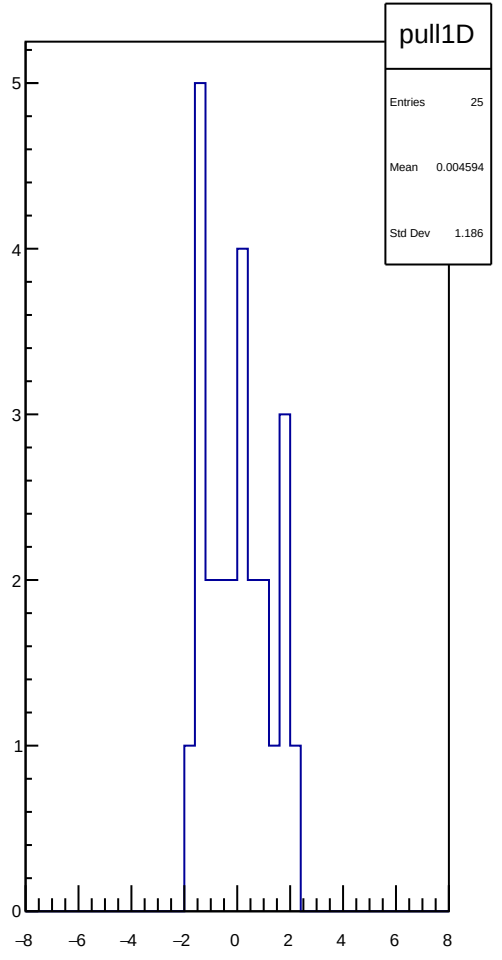

asym_sam2_rms vs run
χ² / ndf 1385 / 24
p0 5661 ± 8.076
6400
6200
6000
5800
5600
5400
5200
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

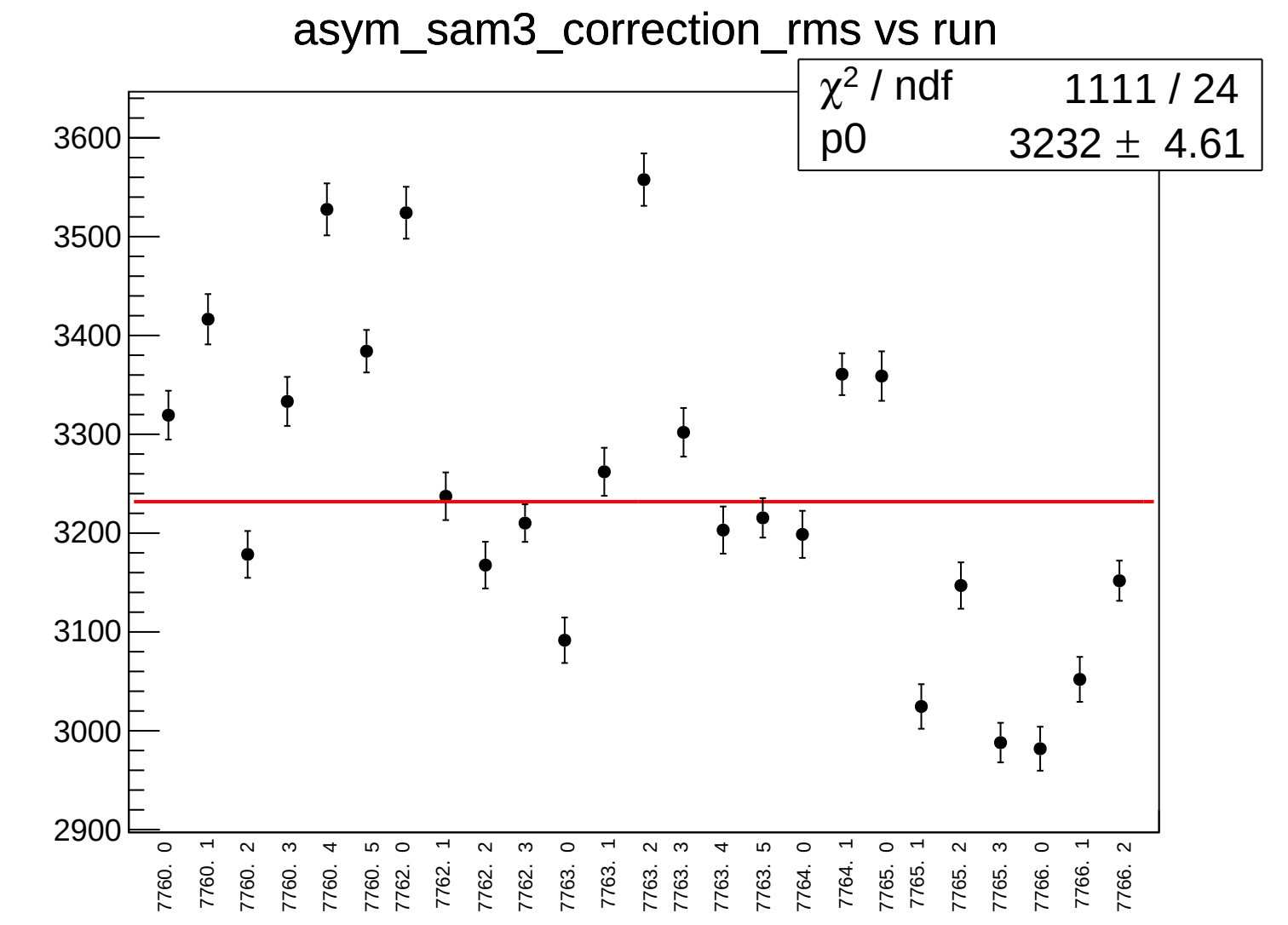

dit_asym_sam3_mean vs run
χ² / ndf 26.03 / 24
p0 127.3 ± 758.7
10000
5000
0
−5000
−10000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −311.9
Std Dev 323.8
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

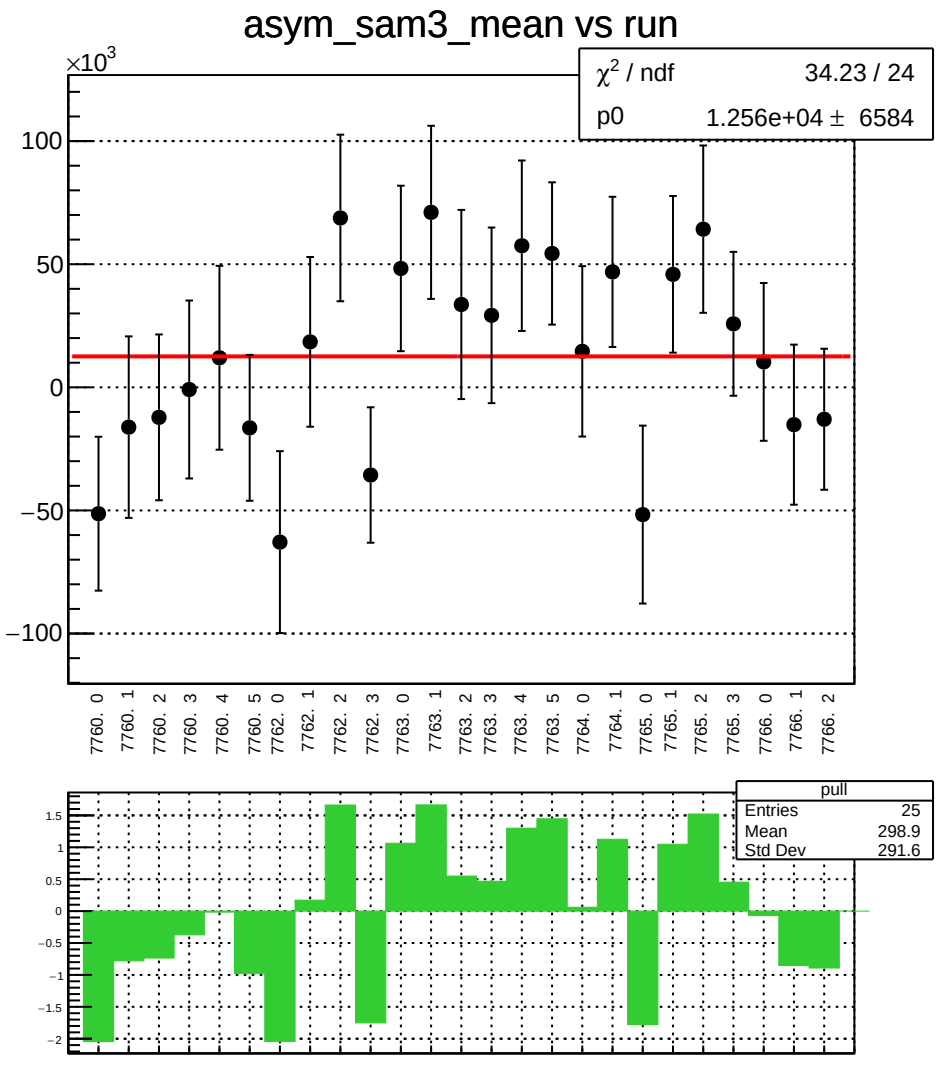

pull1D
Entries 25
Mean 0.003865
Std Dev 1.02
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

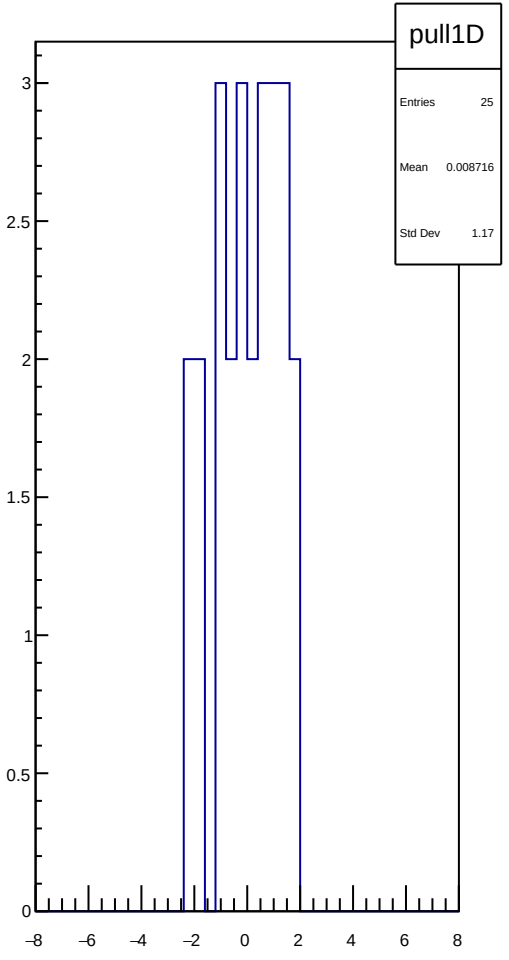

dit_asym_sam3_rms vs run
χ² / ndf 5527 / 24
p0 374.4 ± 0.5365
650
600
550
500
450
400
350
300
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

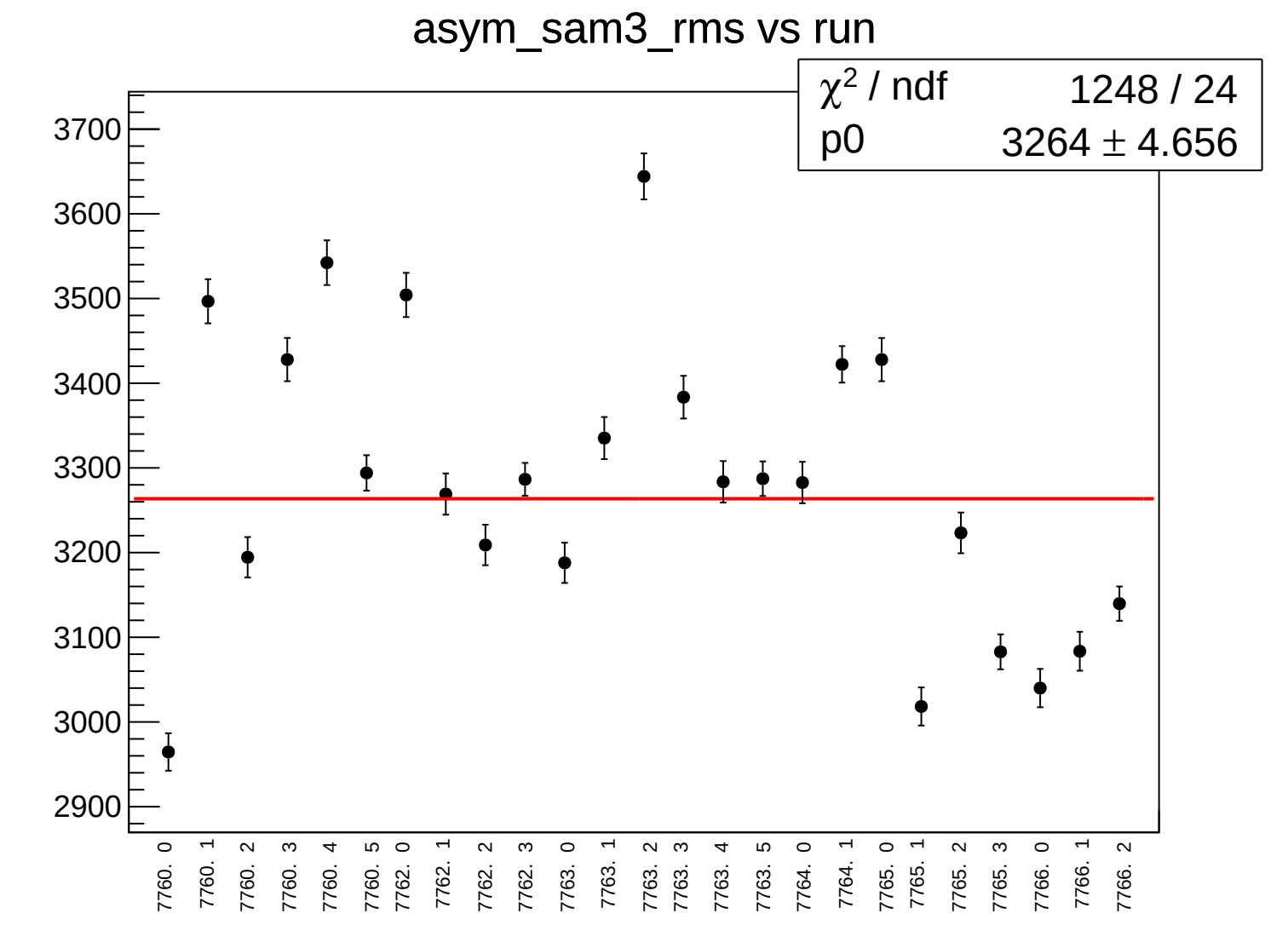

asym_sam3_correction_mean vs run
×10^3
χ² / ndf 35.18 / 24
p0 −1.328e+04 ± 6519
100
50
0
−50
−100
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −542
Std Dev 549.2
2
1.5
1
0.5
0
−0.5
−1
−1.5

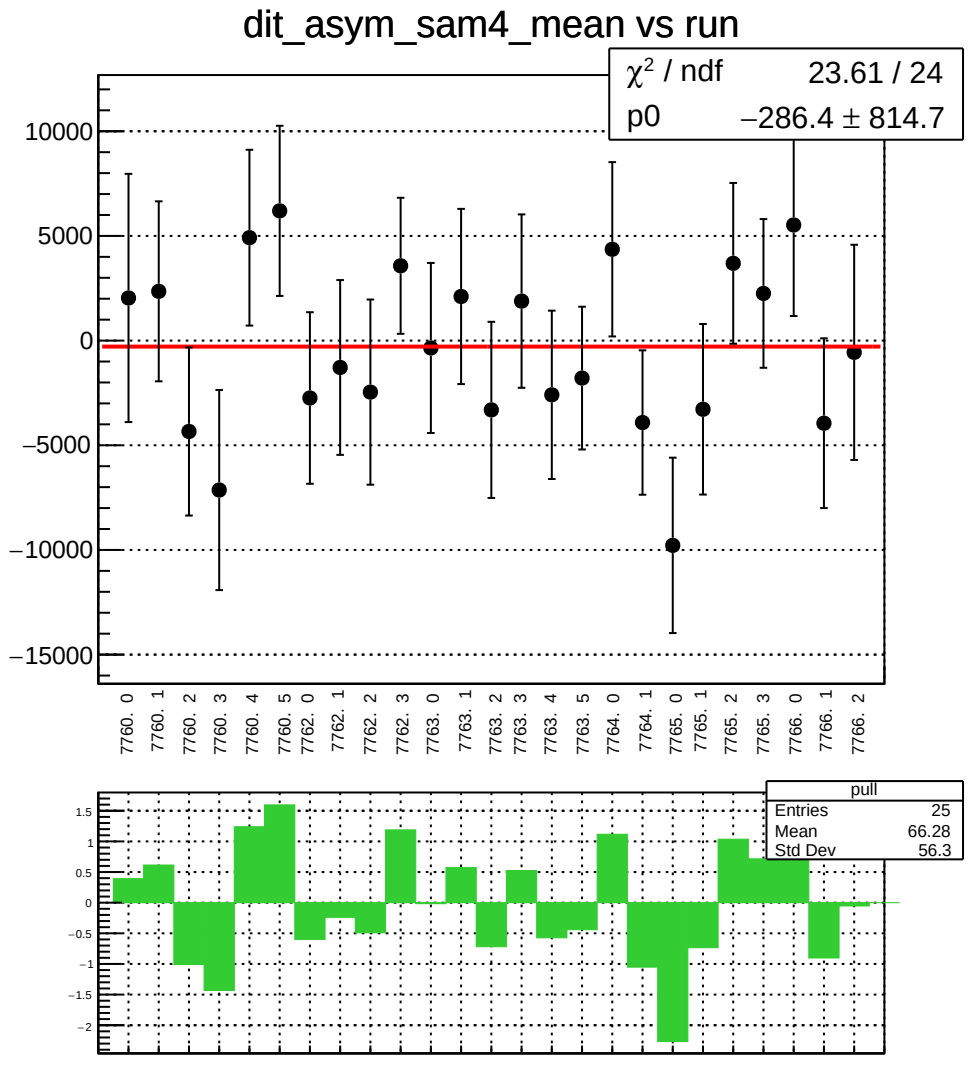

pull1D
Entries 25
Mean 0.004594
Std Dev 1.186
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

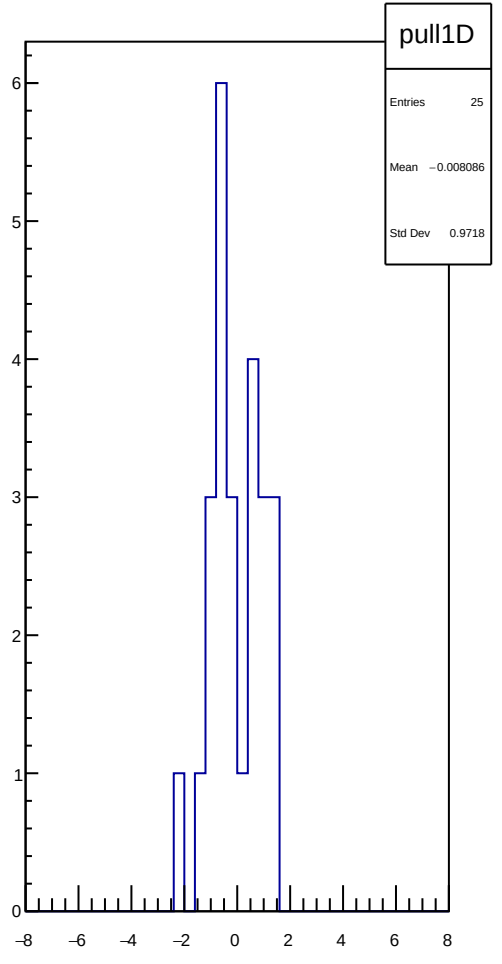

asym_sam3_correction_rms vs run
χ² / ndf 1111 / 24
p0 3232 ± 4.61
3600
3500
3400
3300
3200
3100
3000
2900
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

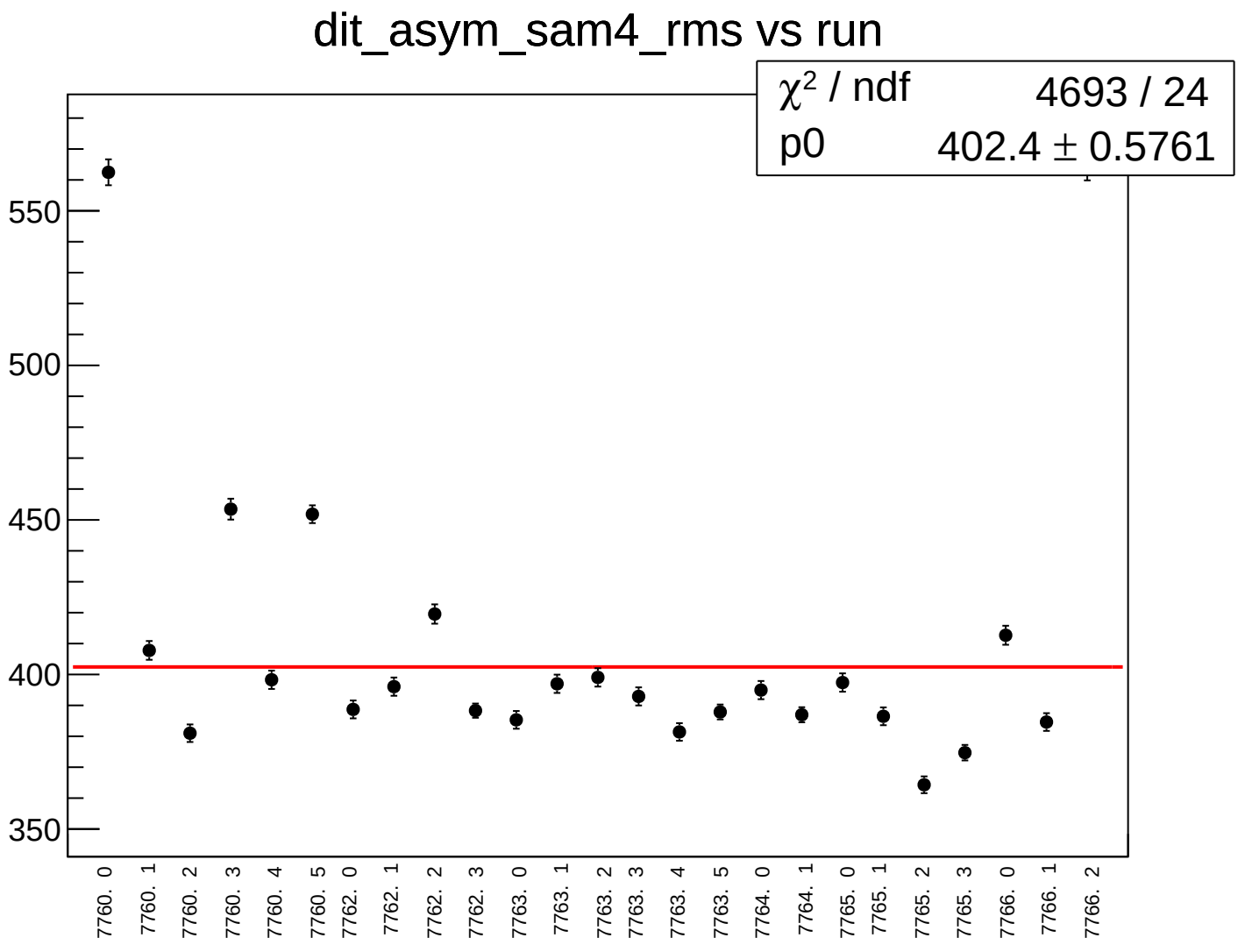

asym_sam3_mean vs run
×10^3
χ² / ndf 34.23 / 24
p0 1.256e+04 ± 6584
100
50
0
−50
−100
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 298.9
Std Dev 291.6
1.5
1
0.5
0
−0.5
−1
−1.5
−2

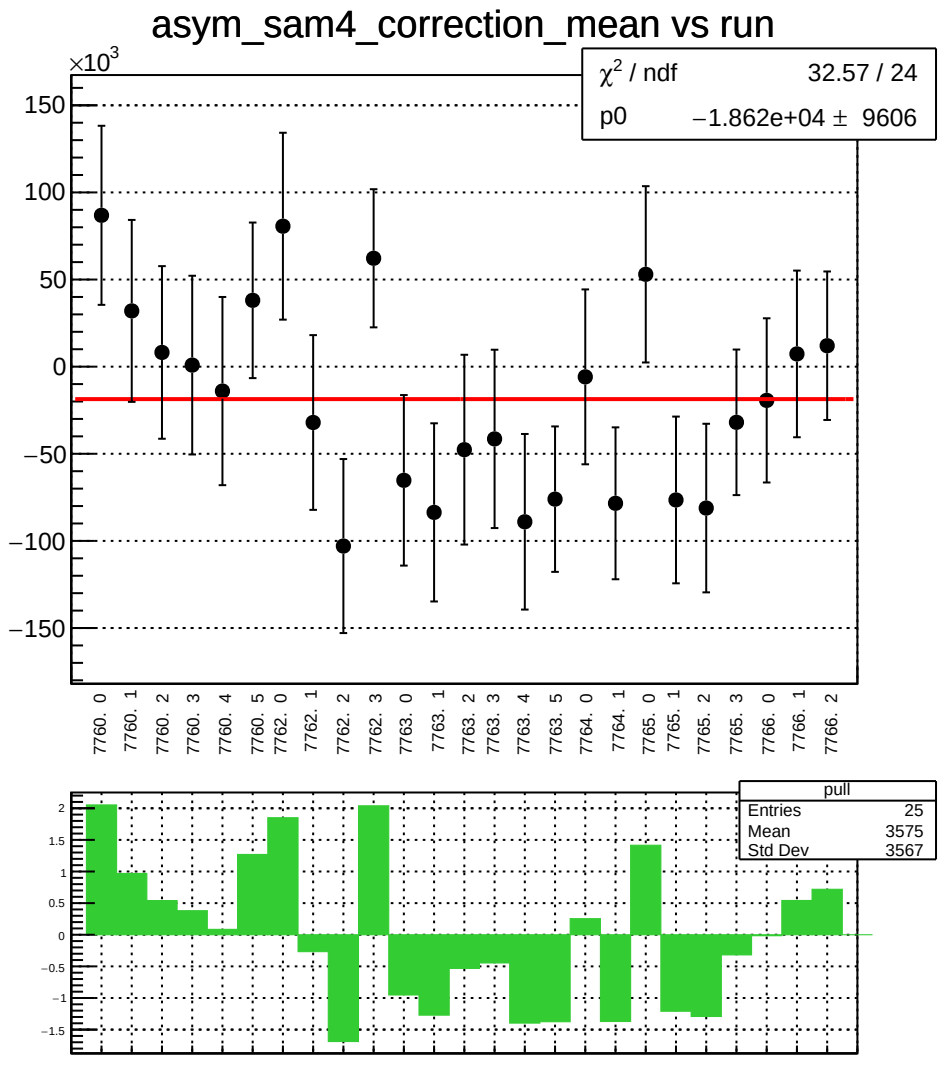

pull1D
Entries 25
Mean 0.008716
Std Dev 1.17
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

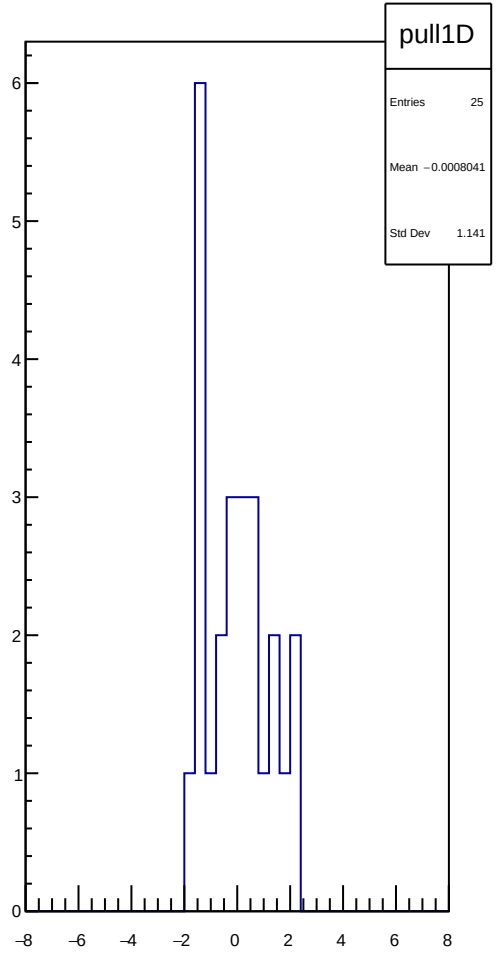

asym_sam3_rms vs run
χ² / ndf 1248 / 24
p0 3264 ± 4.656
3700
3600
3500
3400
3300
3200
3100
3000
2900
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

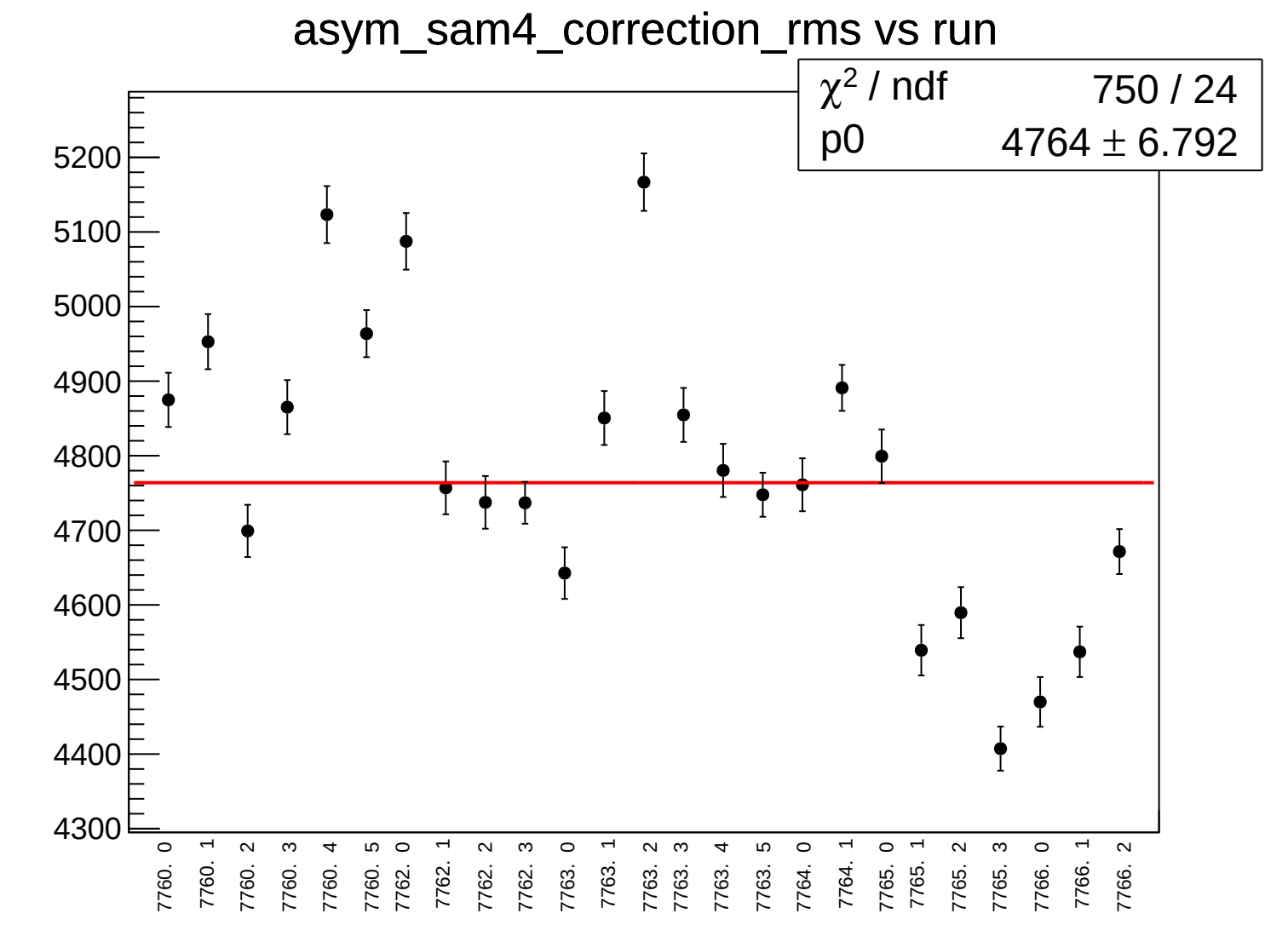

dit_asym_sam4_mean vs run
χ² / ndf 23.61 / 24
p0 −286.4 ± 814.7
10000
5000
0
−5000
−10000
−15000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 66.28
Std Dev 56.3
1.5
1
0.5
0
−0.5
−1
−1.5
−2

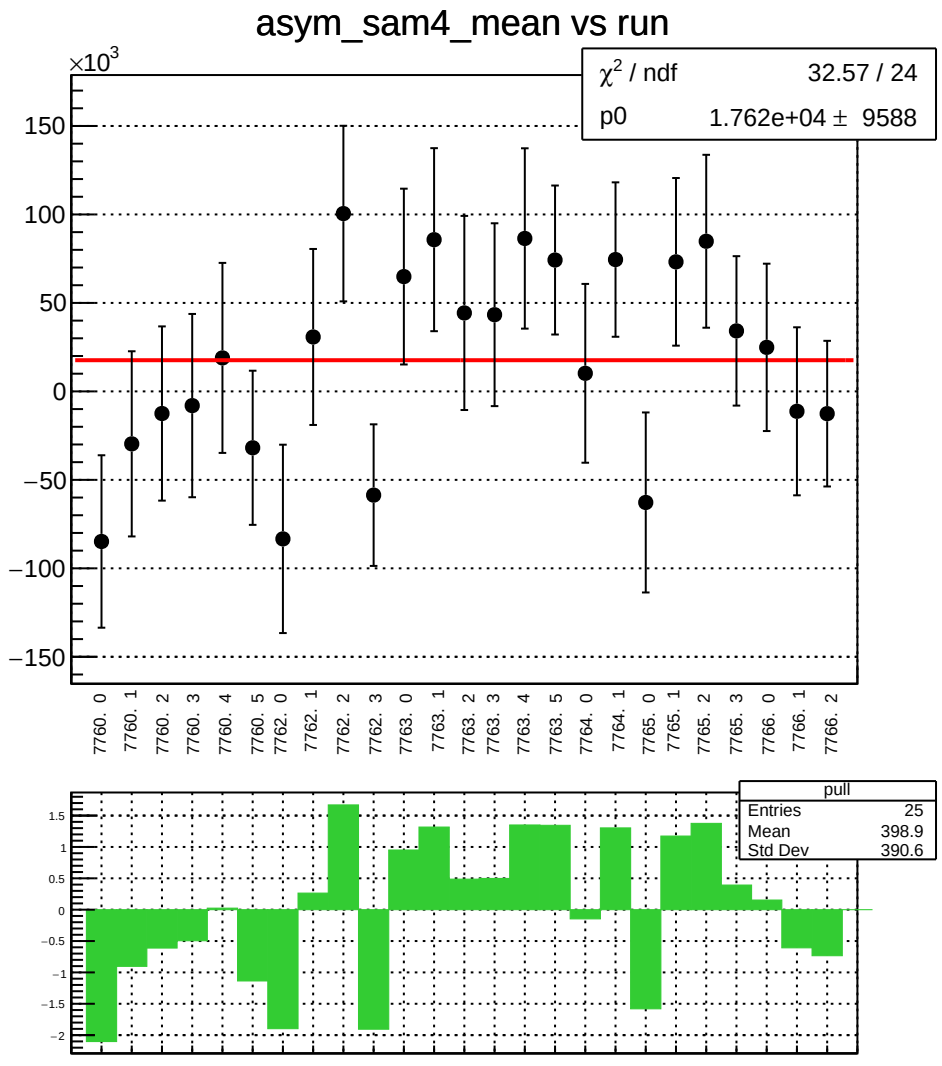

pull1D
Entries 25
Mean −0.008086
Std Dev 0.9718
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

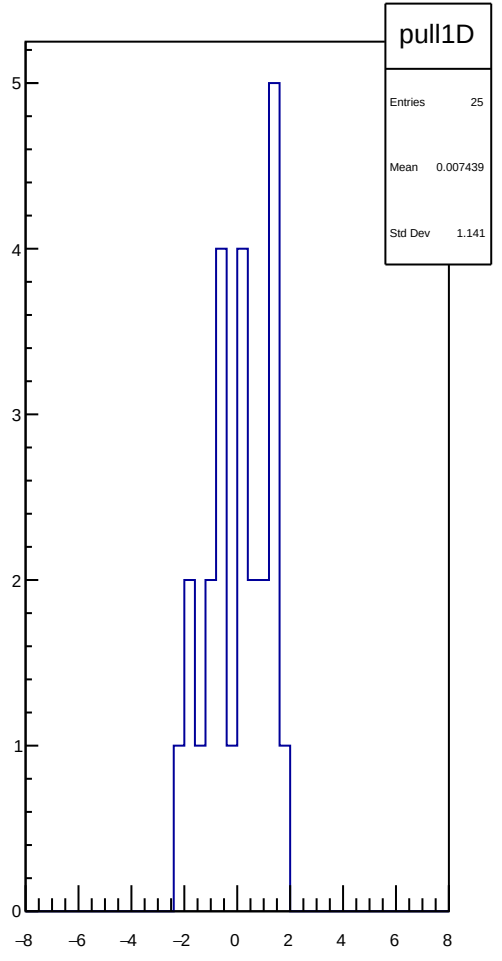

dit_asym_sam4_rms vs run
χ² / ndf 4693 / 24
p0 402.4 ± 0.5761
550
500
450
400
350
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

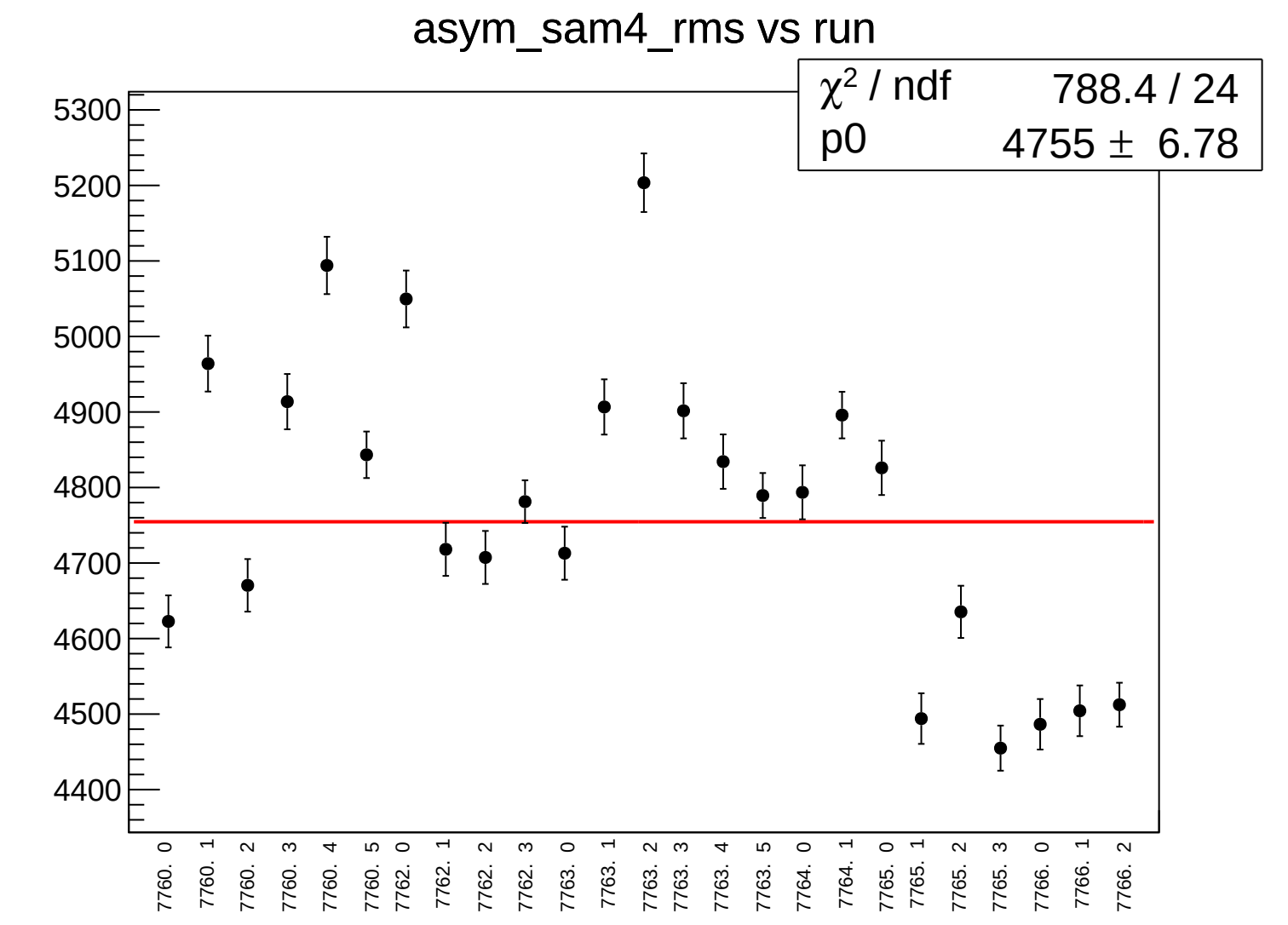

asym_sam4_correction_mean vs run
×10^3
χ² / ndf 32.57 / 24
p0 −1.862e+04 ± 9606
150
100
50
0
−50
−100
−150
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 3575
Std Dev 3567
2
1.5
1
0.5
0
−0.5
−1
−1.5

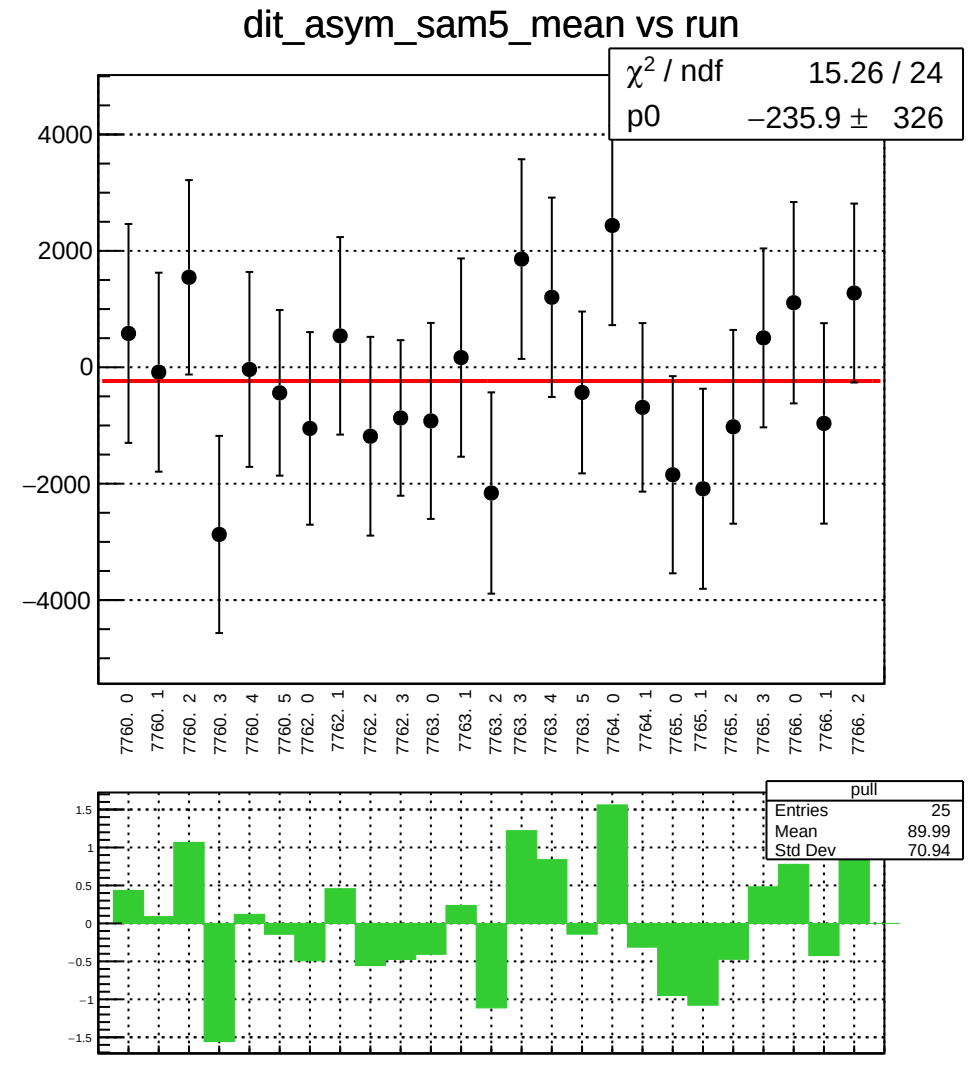

pull1D
Entries 25
Mean −0.0008041
Std Dev 1.141
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

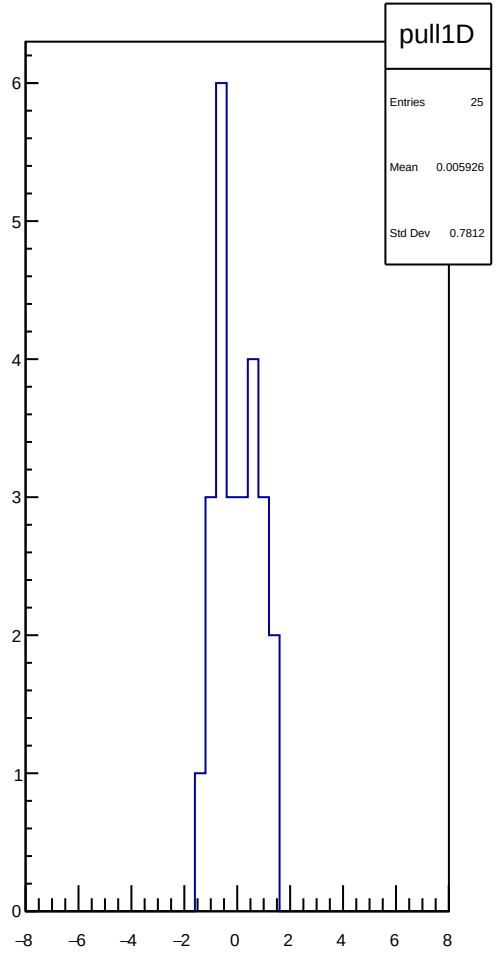

asym_sam4_correction_rms vs run
χ² / ndf 750 / 24
p0 4764 ± 6.792
5200
5100
5000
4900
4800
4700
4600
4500
4400
4300
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

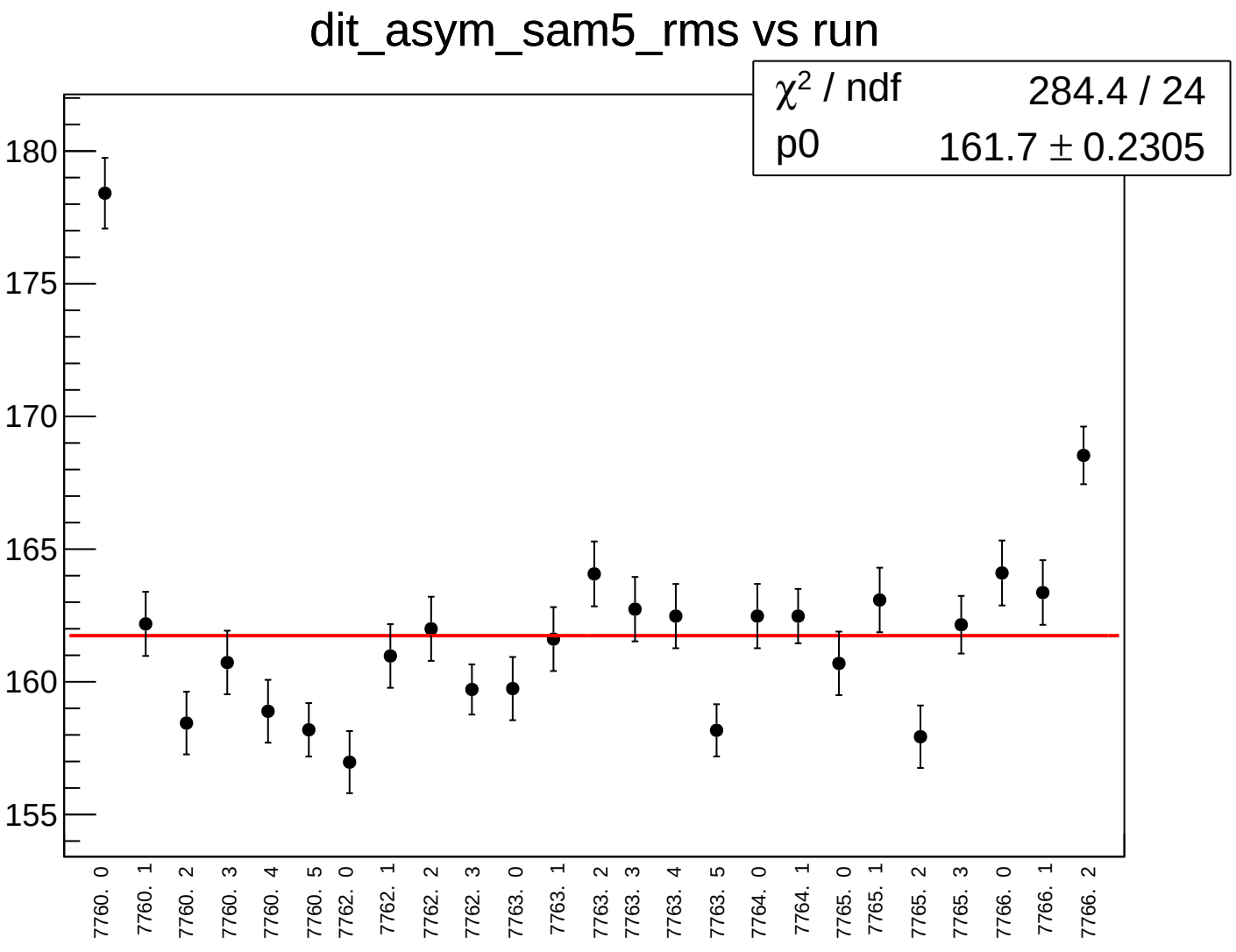

asym_sam4_mean vs run
×10^3
χ² / ndf 32.57 / 24
p0 1.762e+04 ± 9588
150
100
50
0
−50
−100
−150
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 398.9
Std Dev 390.6
1.5
1
0.5
0
−0.5
−1
−1.5
−2

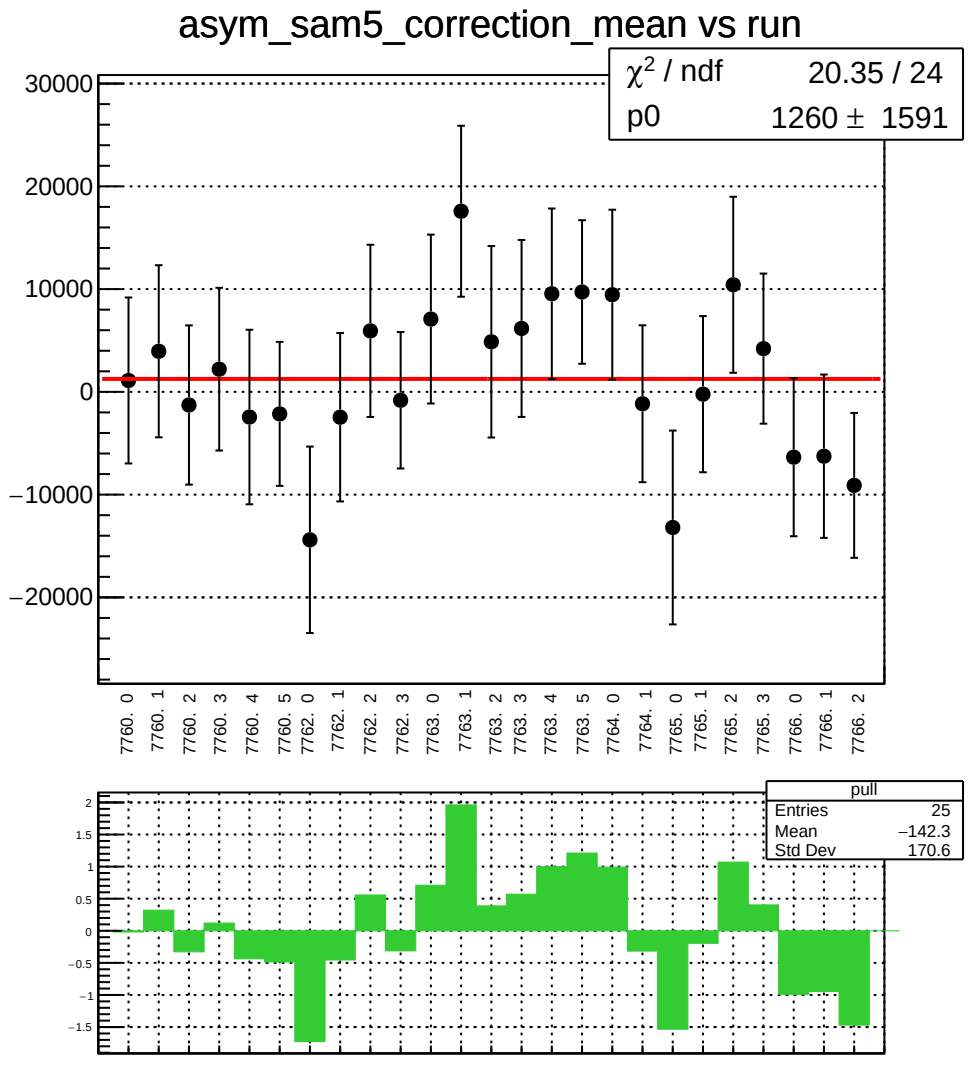

pull1D
Entries 25
Mean 0.007439
Std Dev 1.141
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

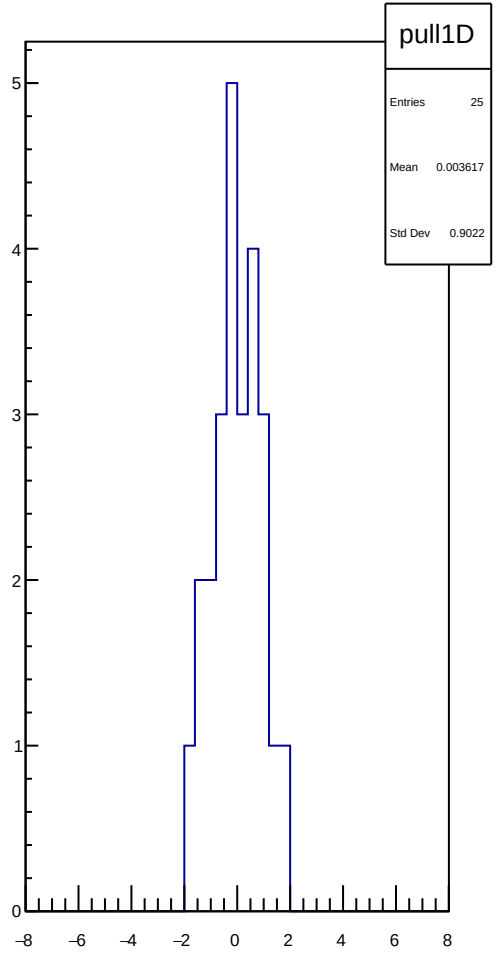

asym_sam4_rms vs run
χ² / ndf 788.4 / 24
p0 4755 ± 6.78
5300
5200
5100
5000
4900
4800
4700
4600
4500
4400
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

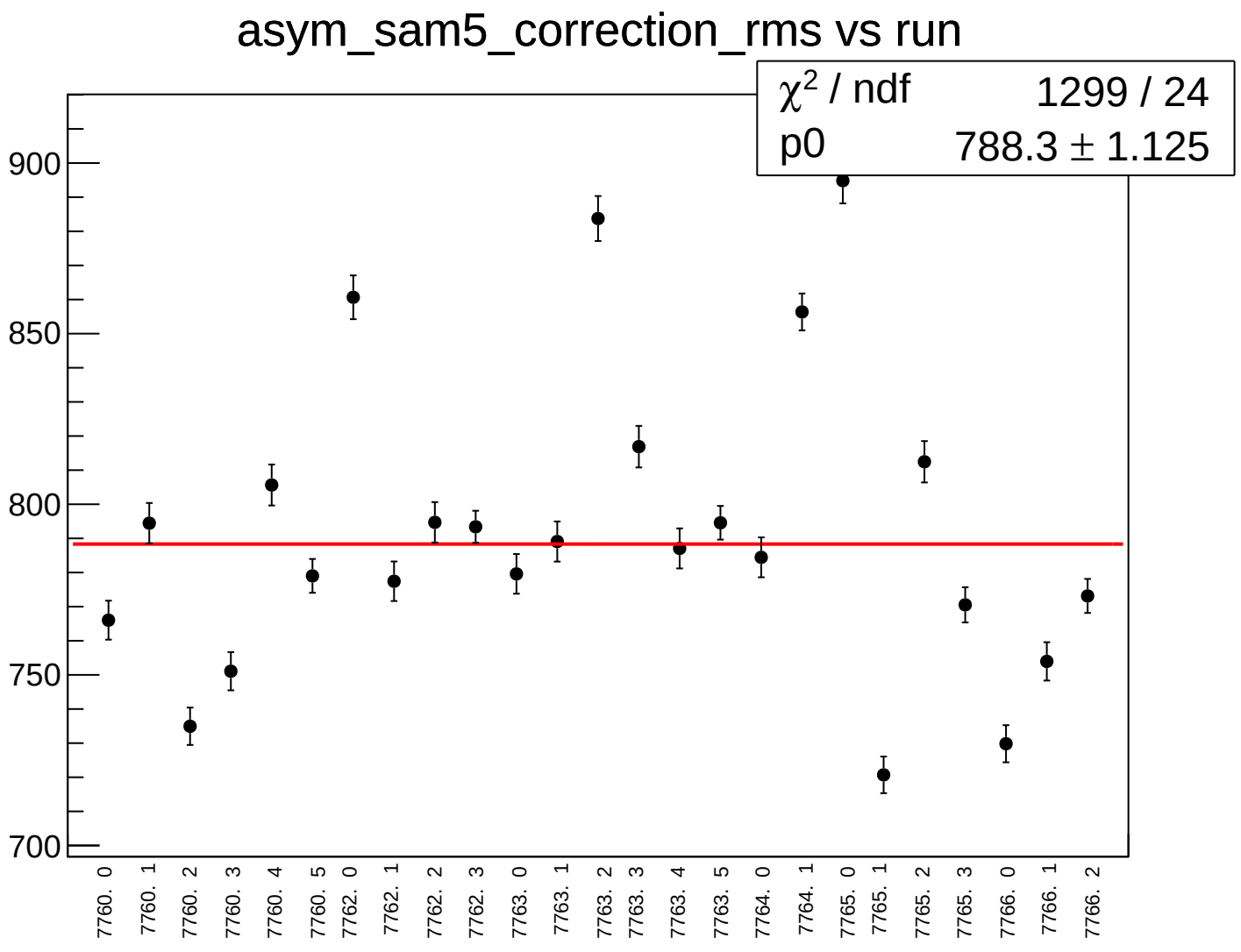

dit_asym_sam5_mean vs run
χ² / ndf 15.26 / 24
p0 −235.9 ± 326
4000
2000
0
−2000
−4000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 89.99
Std Dev 70.94
1.5
1
0.5
0
−0.5
−1
−1.5

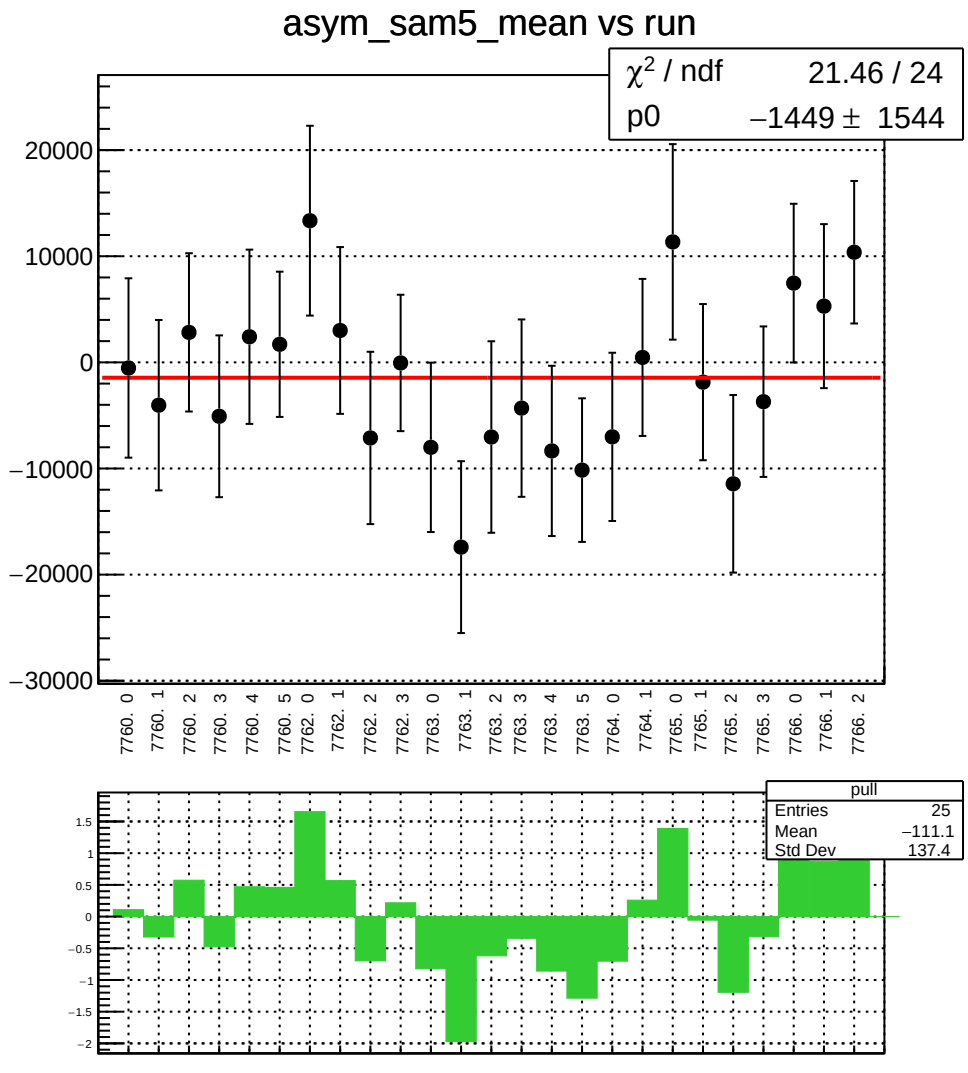

pull1D
Entries 25
Mean 0.005926
Std Dev 0.7812
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

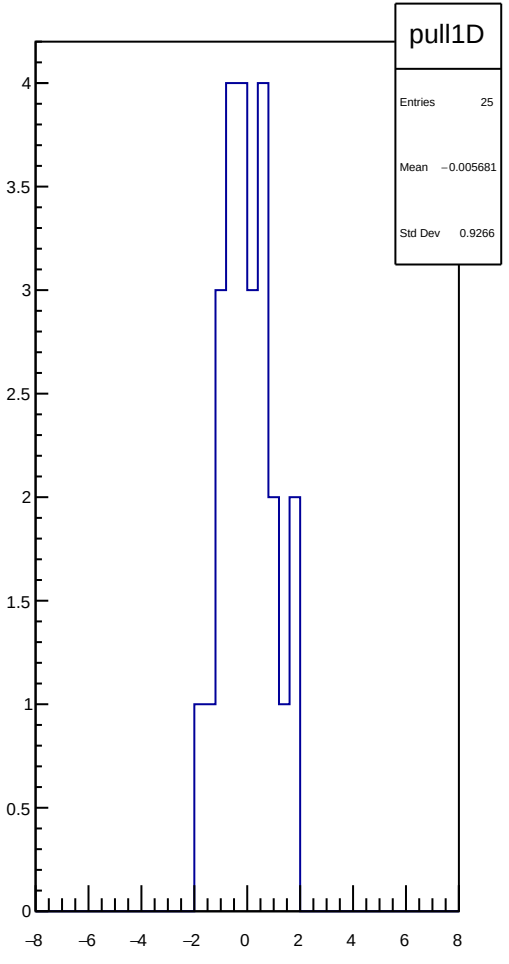

dit_asym_sam5_rms vs run
χ² / ndf 284.4 / 24
p0 161.7 ± 0.2305
180
175
170
165
160
155
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

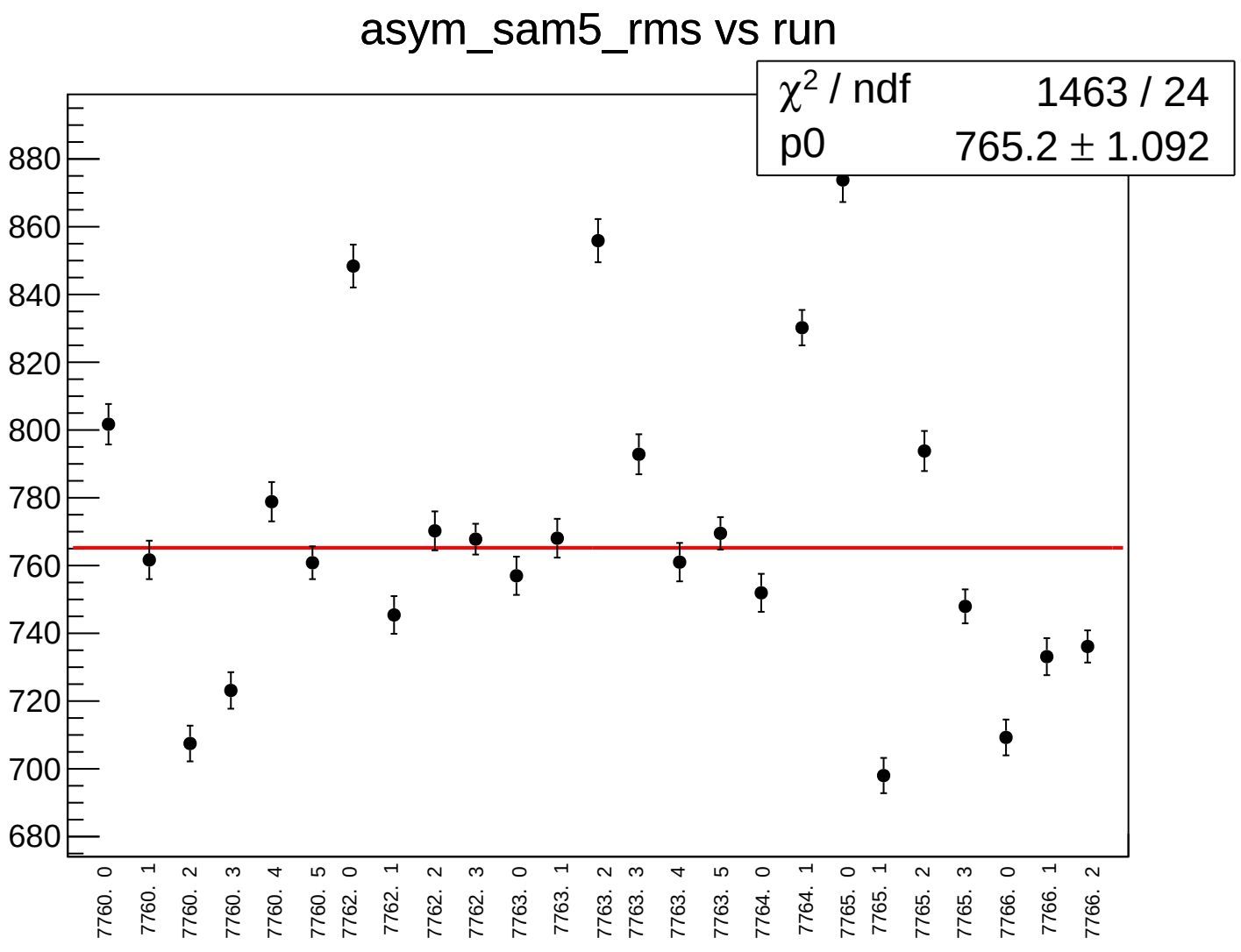

asym_sam5_correction_mean vs run
χ² / ndf 20.35 / 24
p0 1260 ± 1591
30000
20000
10000
0
−10000
−20000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −142.3
Std Dev 170.6
2
1.5
1
0.5
0
−0.5
−1
−1.5

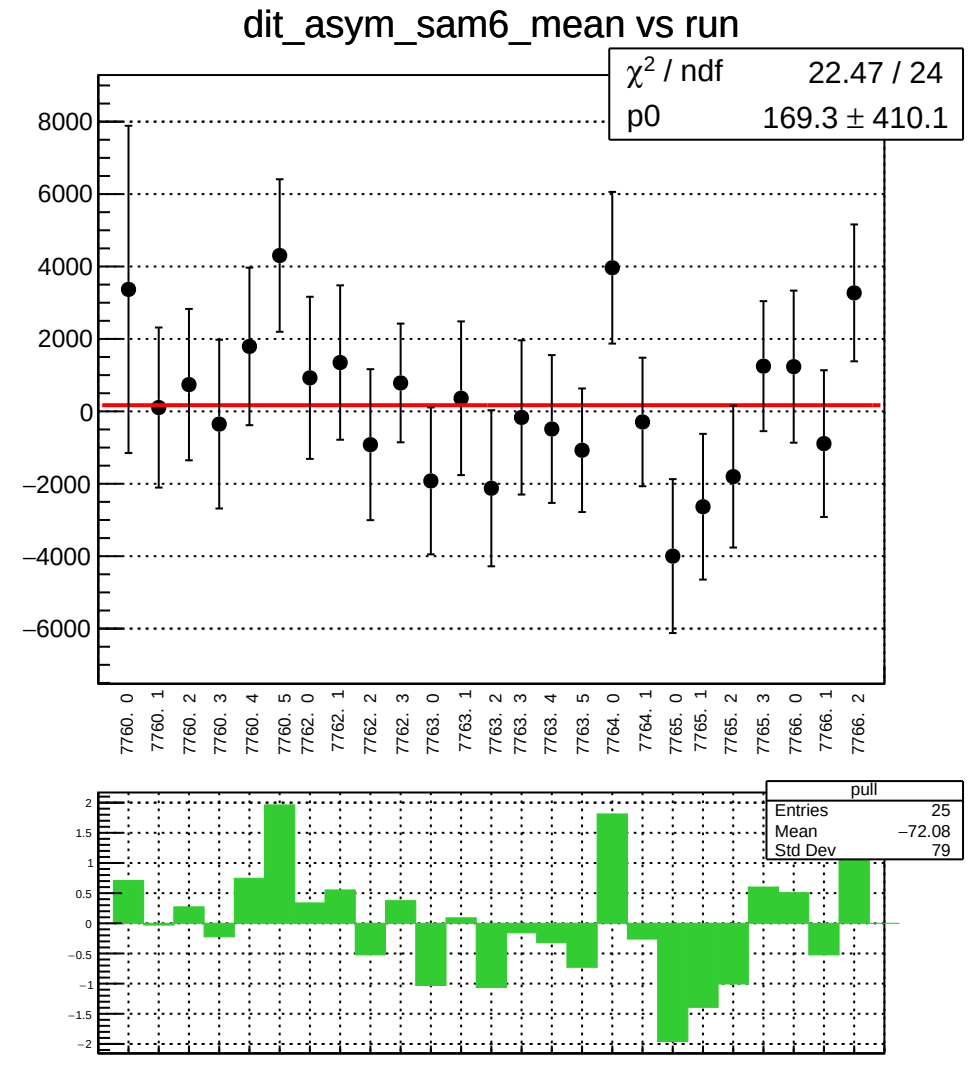

pull1D
Entries 25
Mean 0.003617
Std Dev 0.9022
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

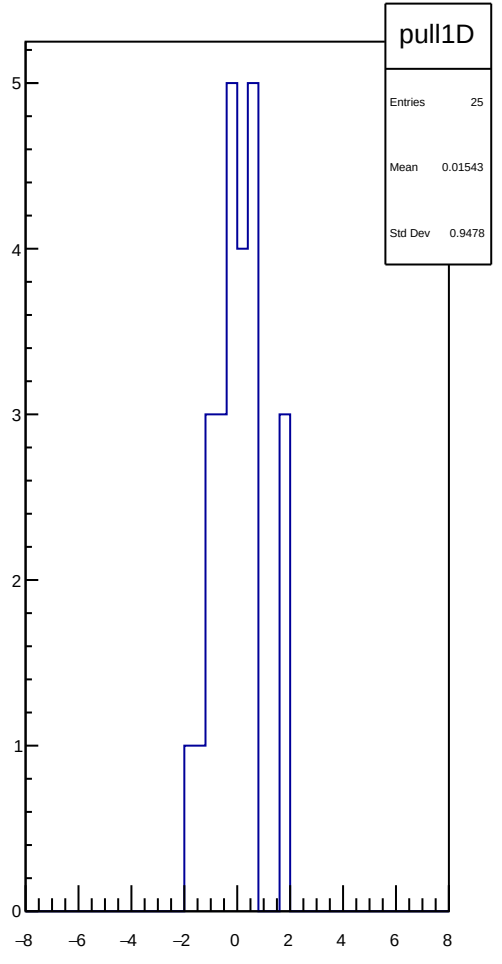

asym_sam5_correction_rms vs run
χ² / ndf 1299 / 24
p0 788.3 ± 1.125
900
850
800
750
700
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

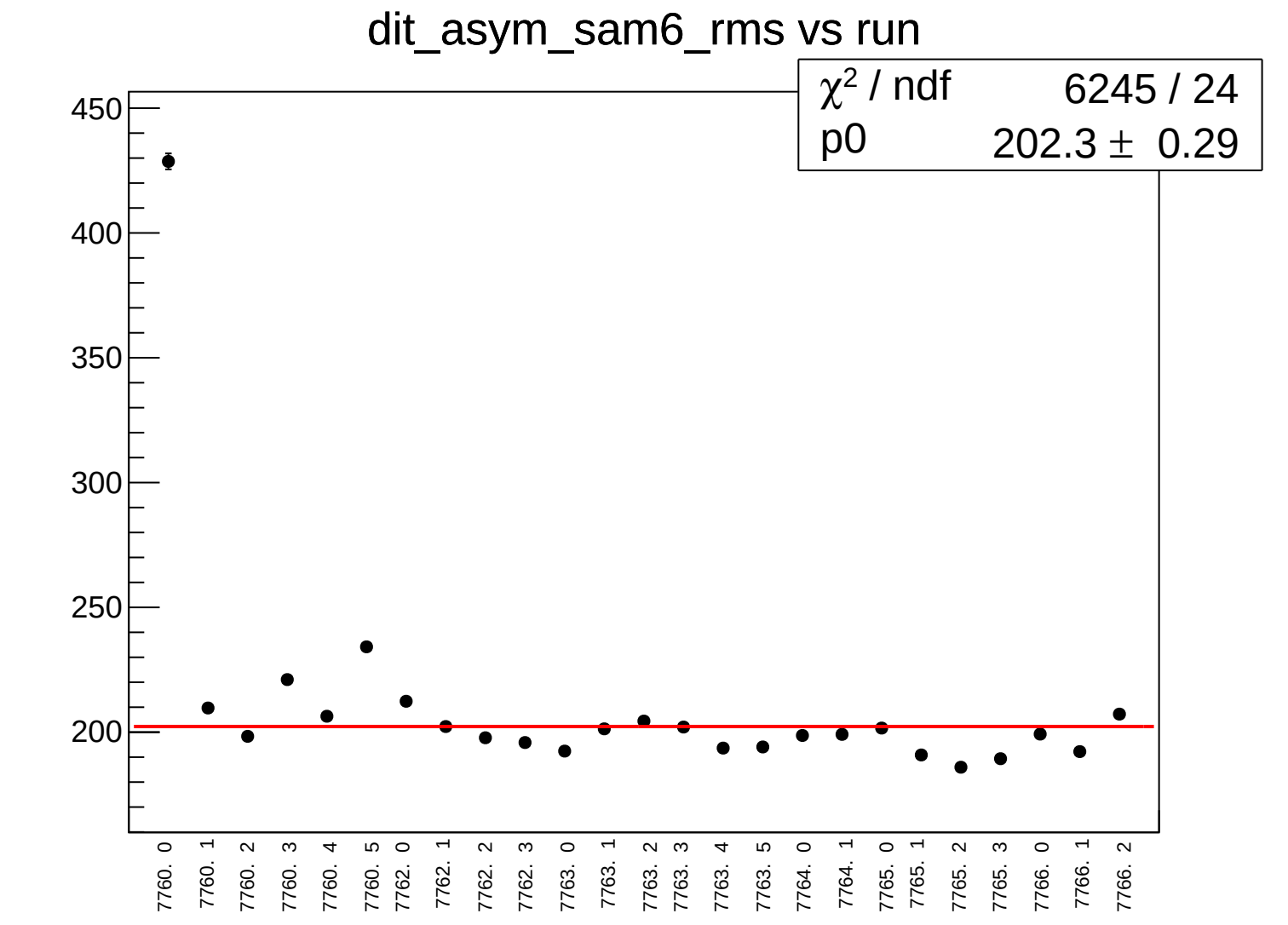

asym_sam5_mean vs run
χ² / ndf 21.46 / 24
p0 −1449 ± 1544
20000
10000
0
−10000
−20000
−30000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −111.1
Std Dev 137.4
1.5
1
0.5
0
−0.5
−1
−1.5
−2

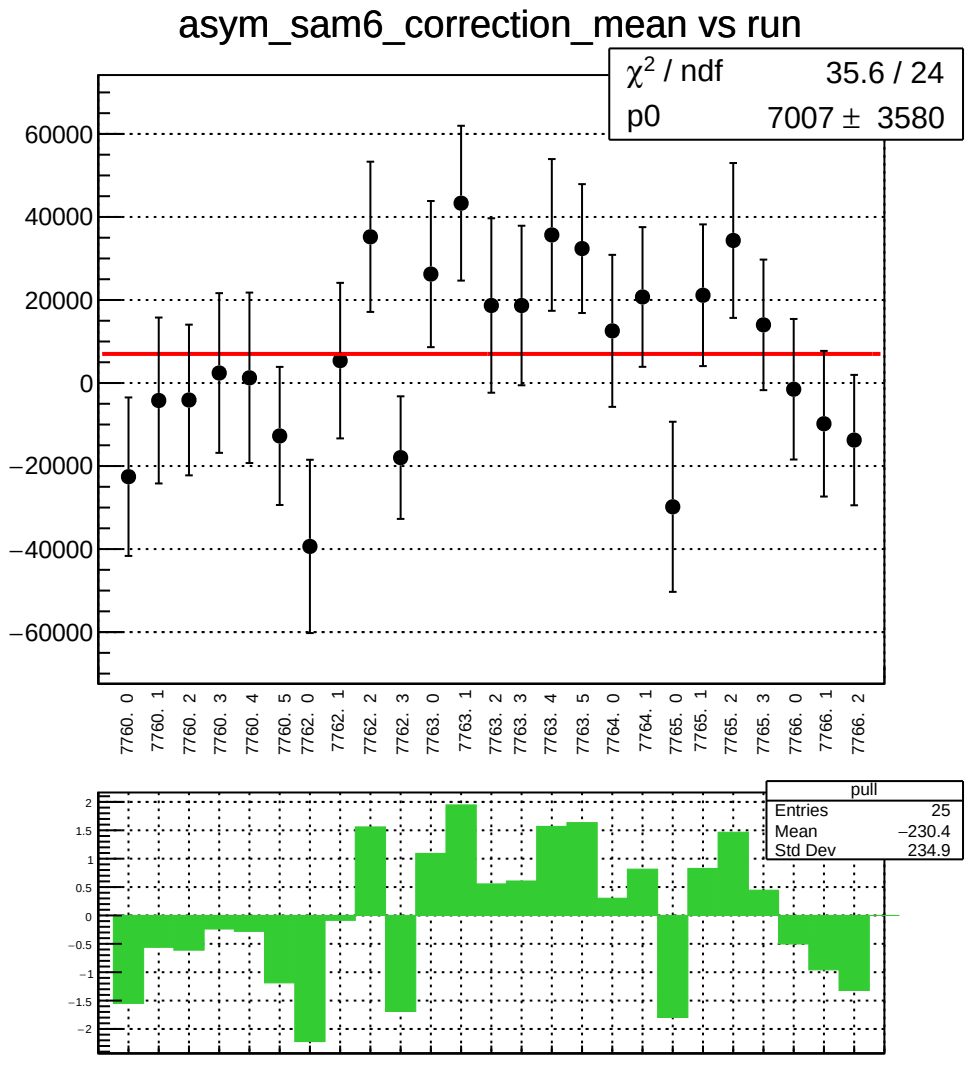

pull1D
Entries 25
Mean −0.005681
Std Dev 0.9266
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

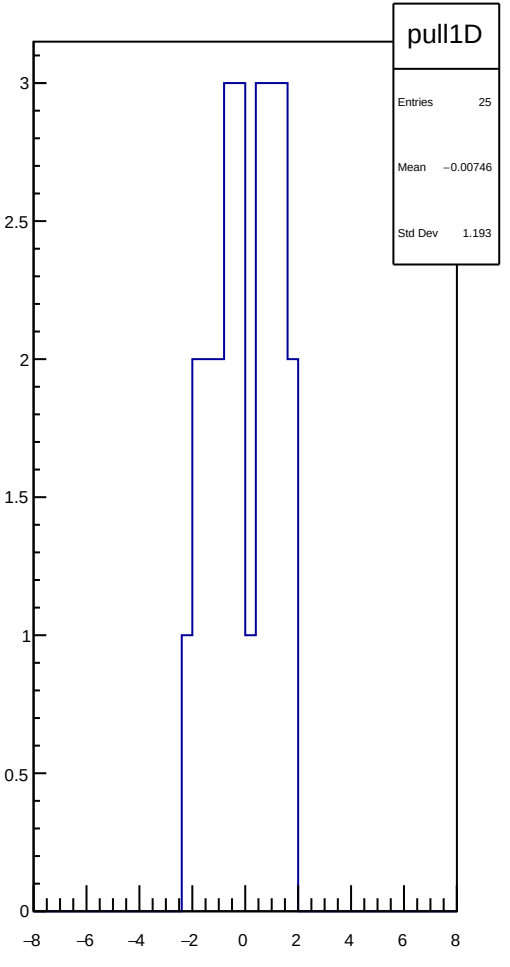

asym_sam5_rms vs run
χ² / ndf 1463 / 24
p0 765.2 ± 1.092
880
860
840
820
800
780
760
740
720
700
680
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

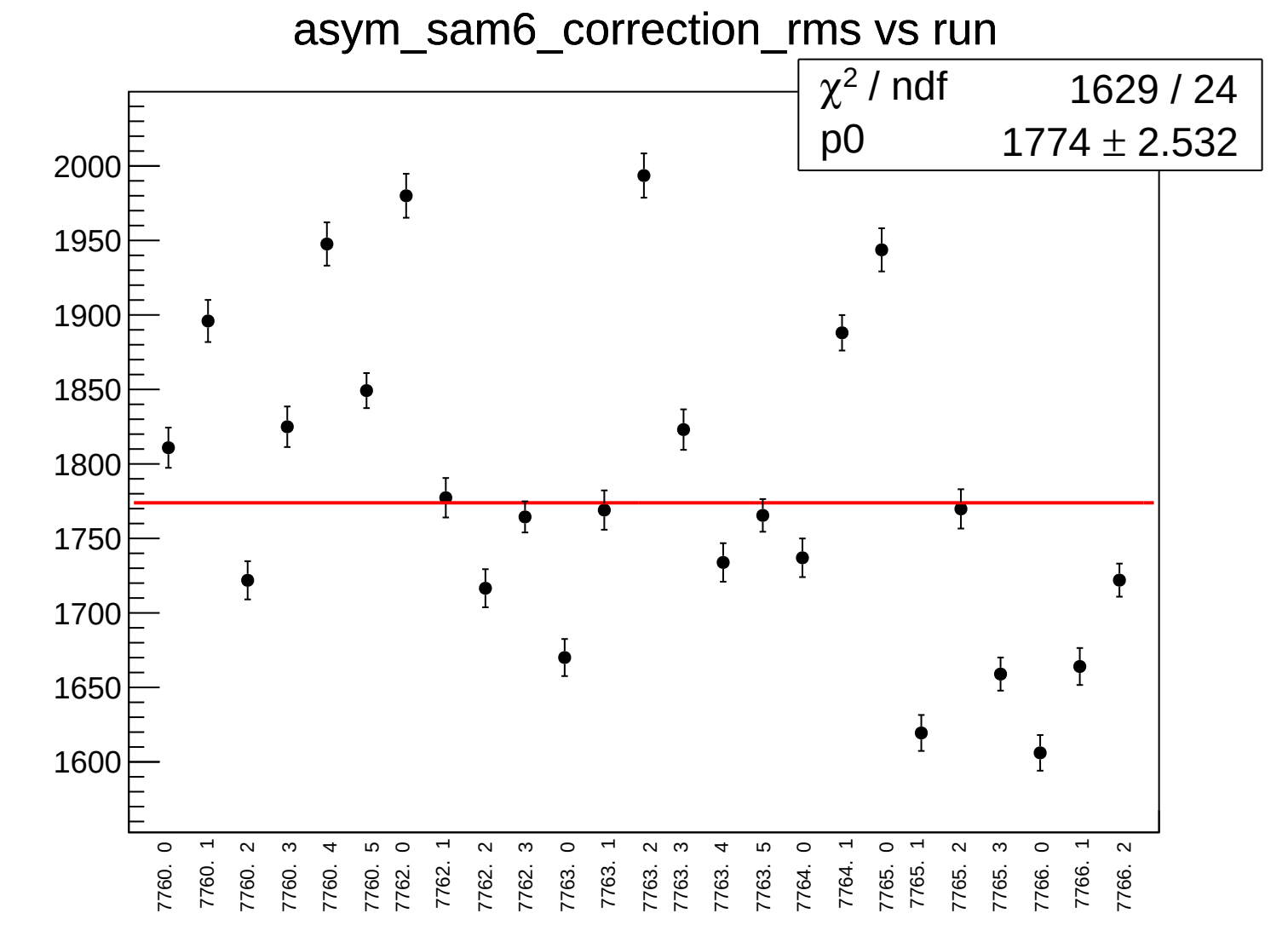

dit_asym_sam6_mean vs run
χ² / ndf 22.47 / 24
p0 169.3 ± 410.1
8000
6000
4000
2000
0
−2000
−4000
−6000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −72.08
Std Dev 79
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

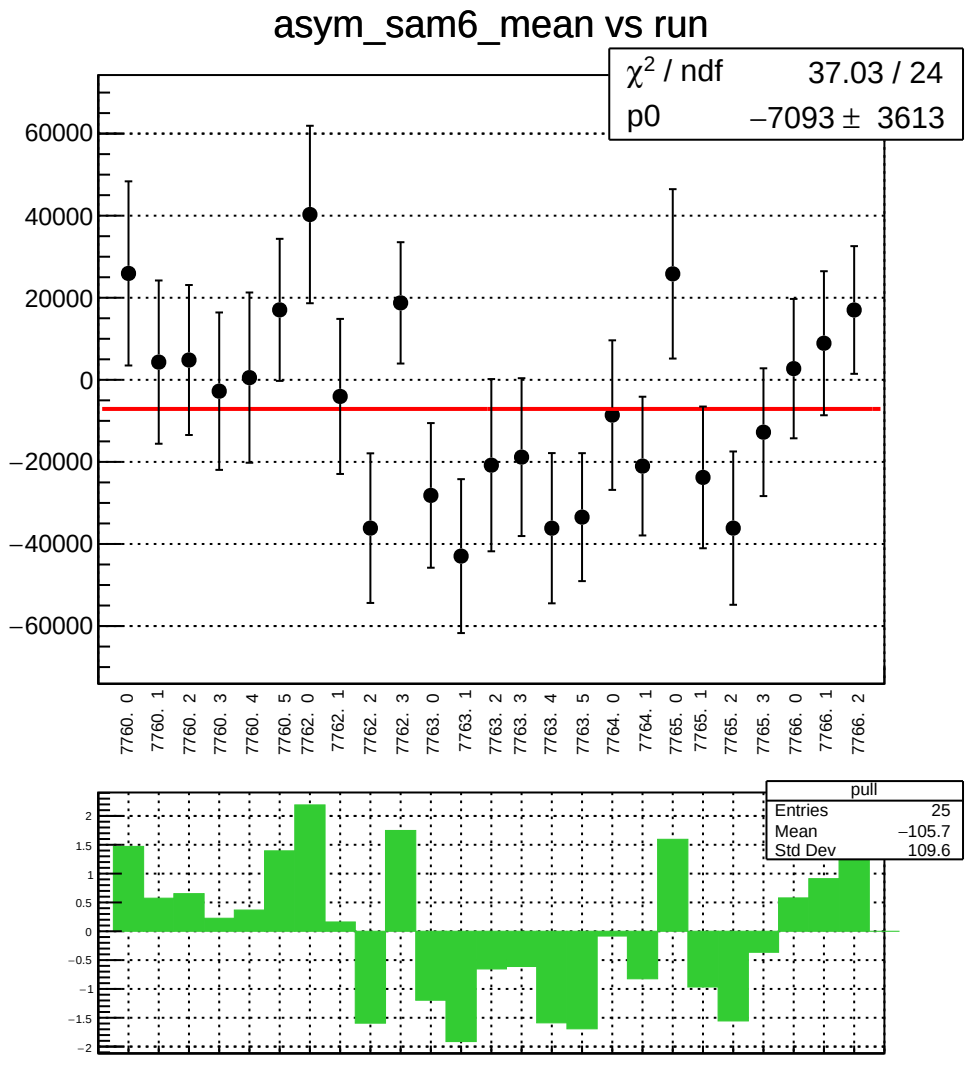

pull1D
Entries 25
Mean 0.01543
Std Dev 0.9478
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

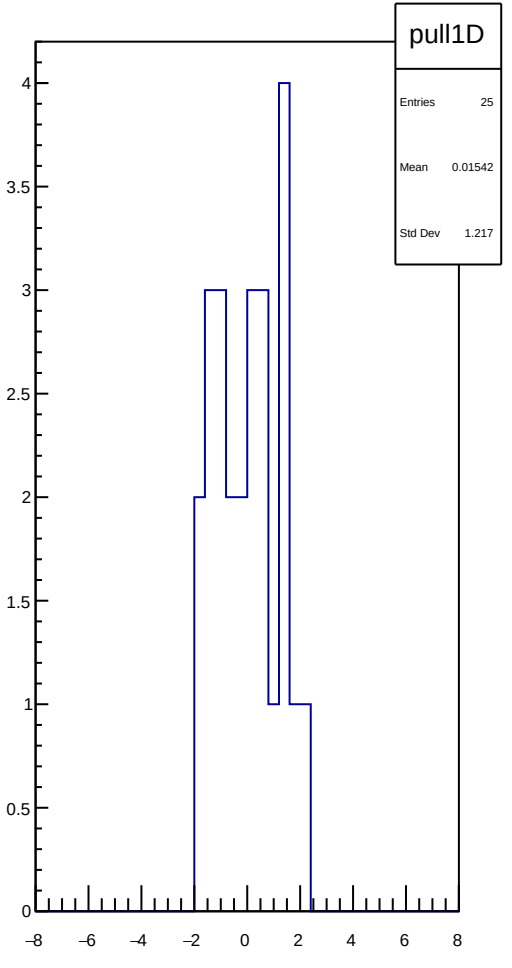

dit_asym_sam6_rms vs run
χ² / ndf 6245 / 24
p0 202.3 ± 0.29
450
400
350
300
250
200
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

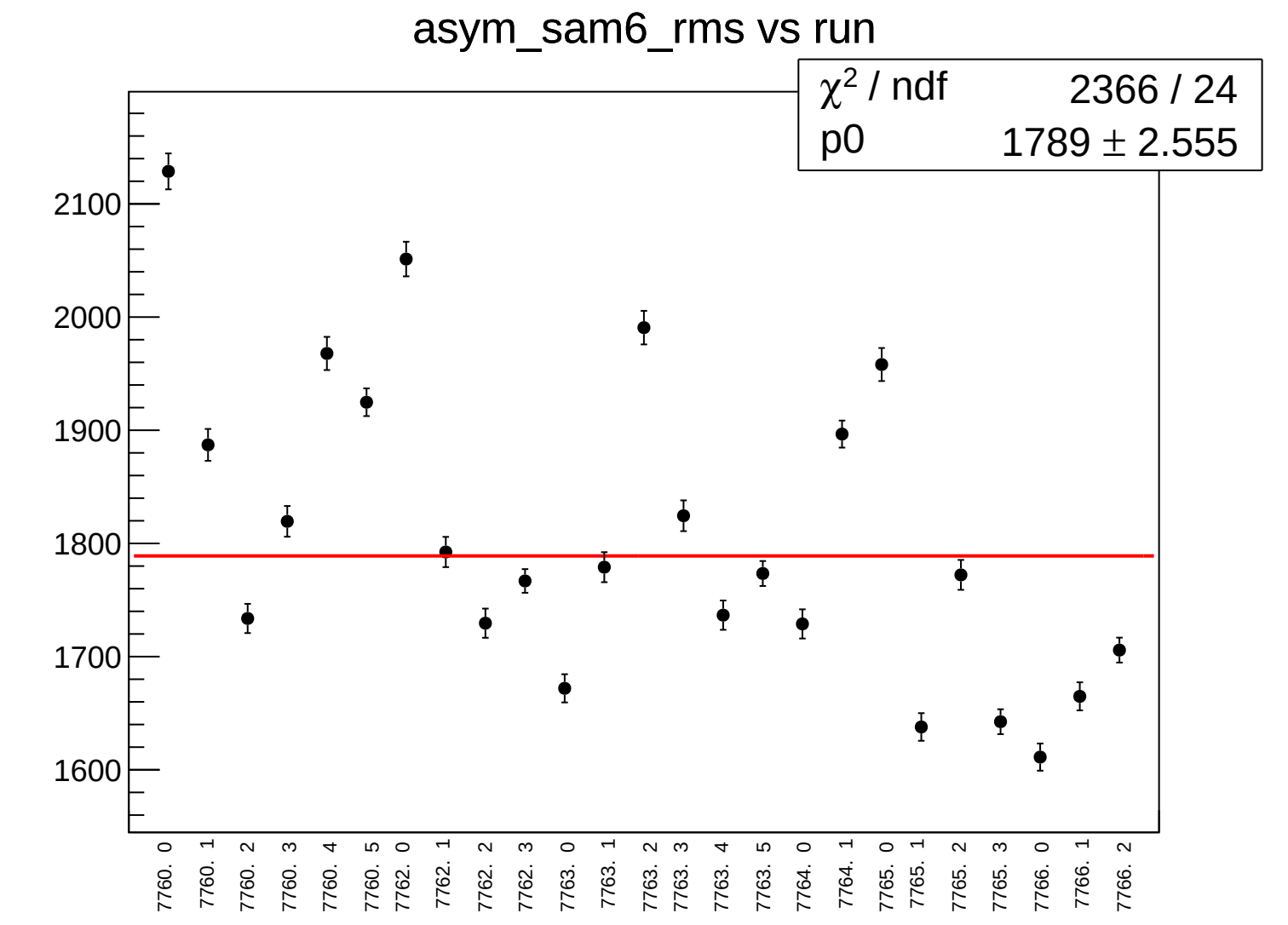

asym_sam6_correction_mean vs run
χ² / ndf 35.6 / 24
p0 7007 ± 3580
60000
40000
20000
0
−20000
−40000
−60000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −230.4
Std Dev 234.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

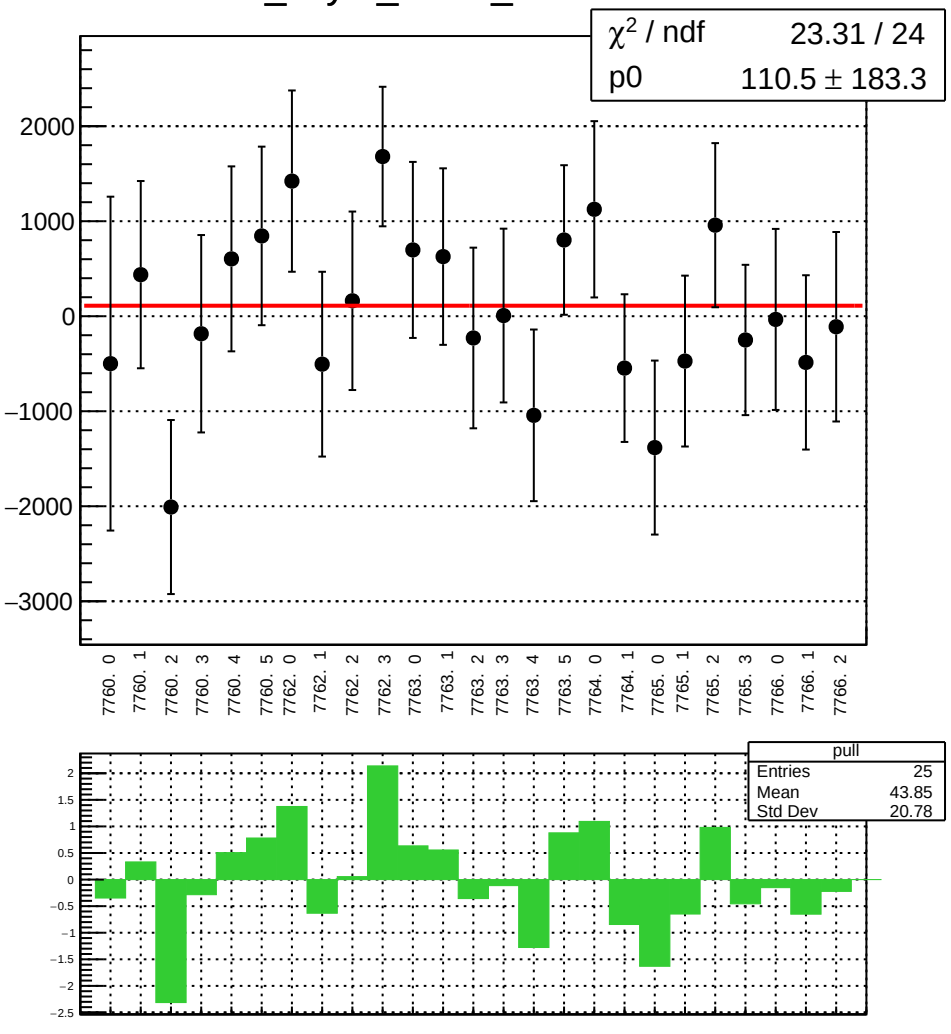

pull1D
Entries 25
Mean −0.00746
Std Dev 1.193
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

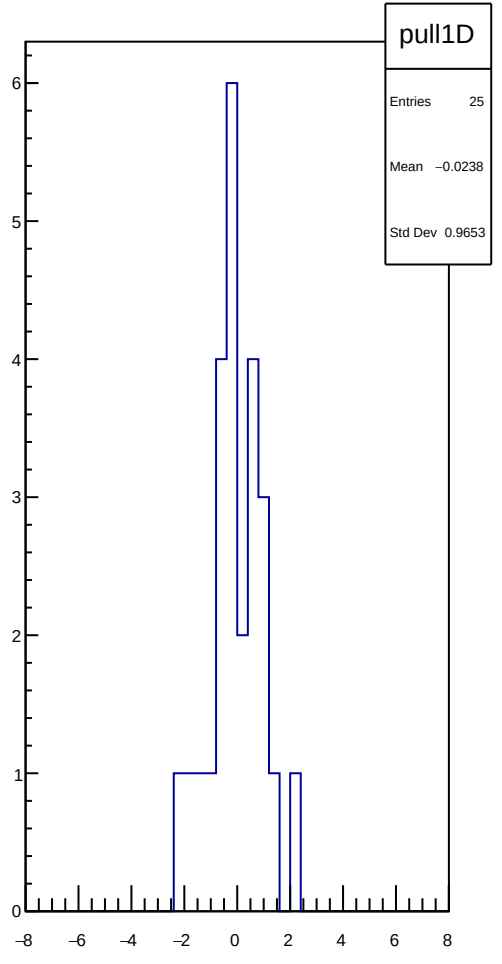

asym_sam6_correction_rms vs run
χ² / ndf 1629 / 24
p0 1774 ± 2.532
2000
1950
1900
1850
1800
1750
1700
1650
1600
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

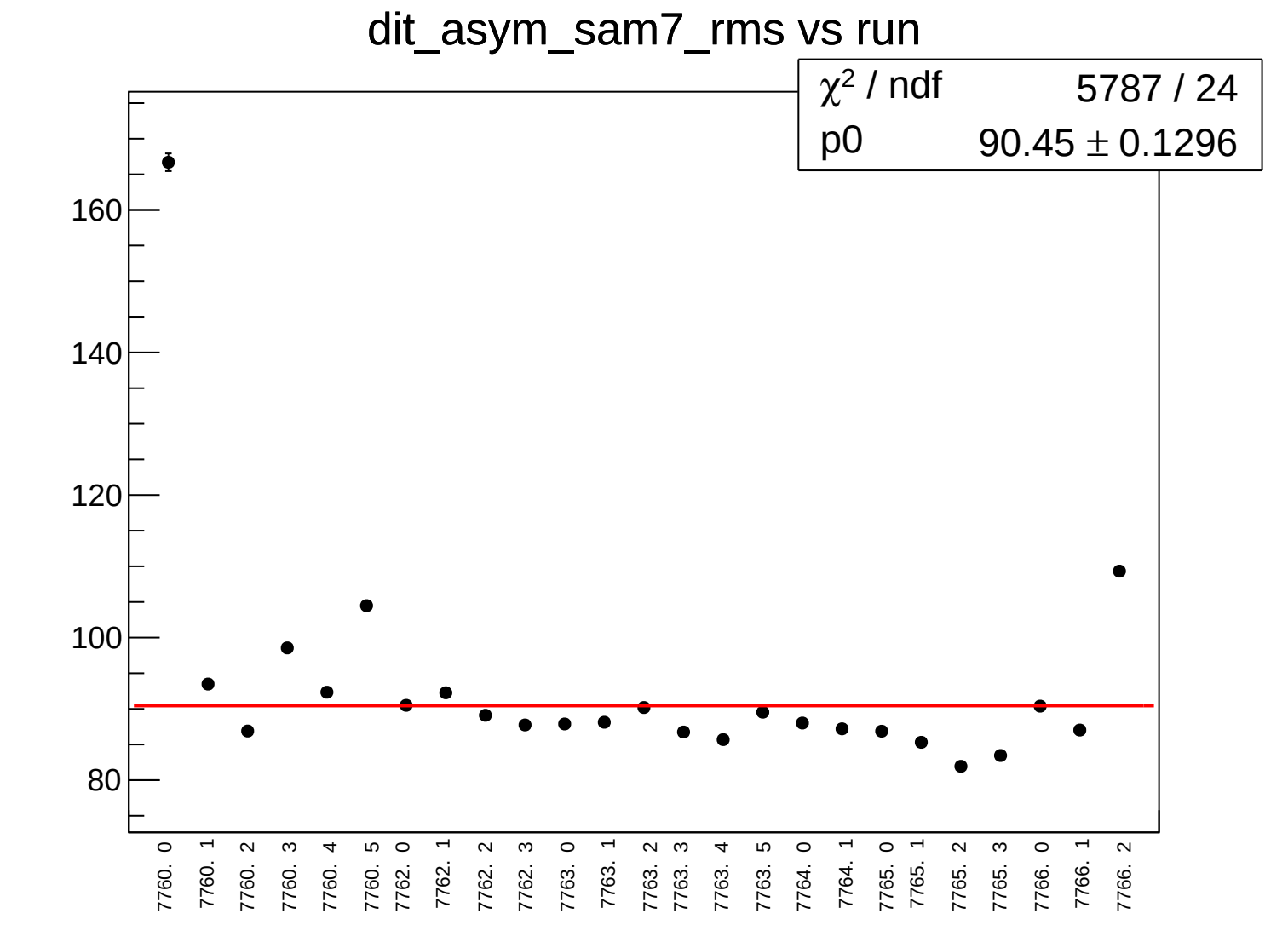

asym_sam6_mean vs run
χ² / ndf 37.03 / 24
p0 −7093 ± 3613
60000
40000
20000
0
−20000
−40000
−60000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −105.7
Std Dev 109.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

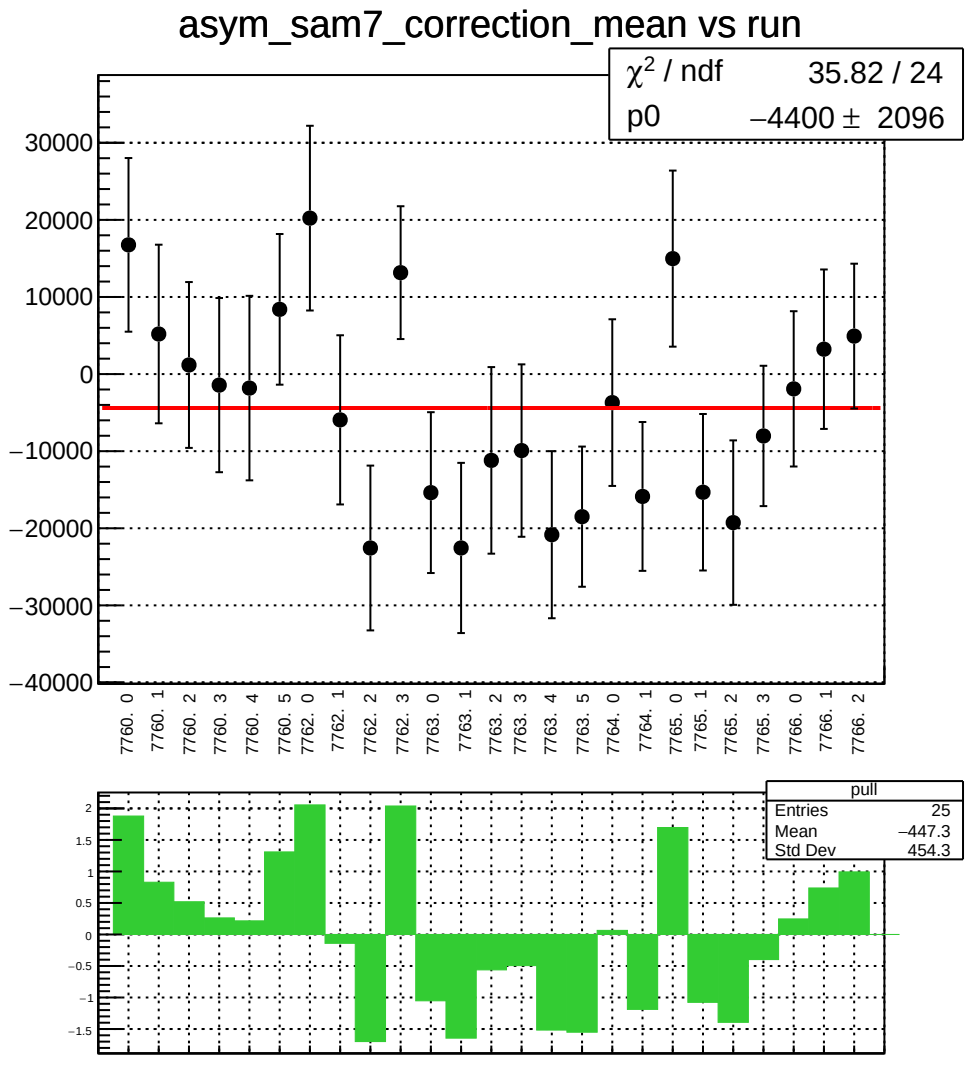

pull1D
Entries 25
Mean 0.01542
Std Dev 1.217
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

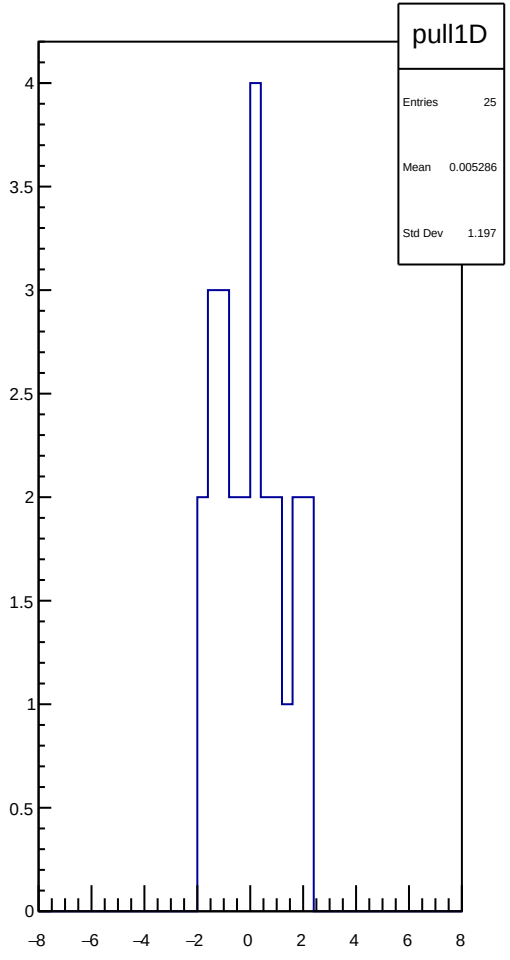

asym_sam6_rms vs run
χ² / ndf 2366 / 24
p0 1789 ± 2.555
2100
2000
1900
1800
1700
1600
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

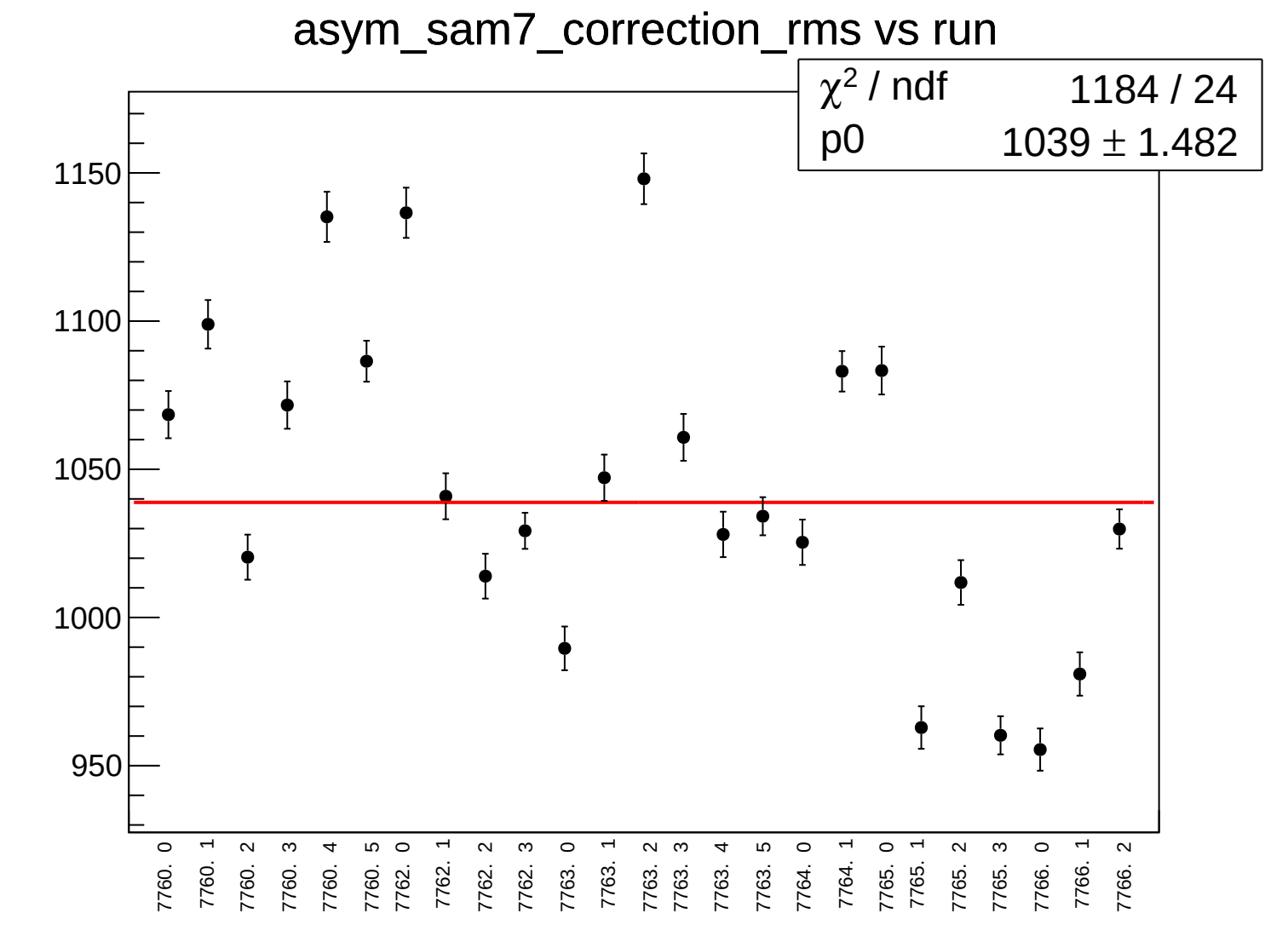

dit_asym_sam7_mean vs run
χ² / ndf 23.31 / 24
p0 110.5 ± 183.3
2000
1000
0
−1000
−2000
−3000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 43.85
Std Dev 20.78
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

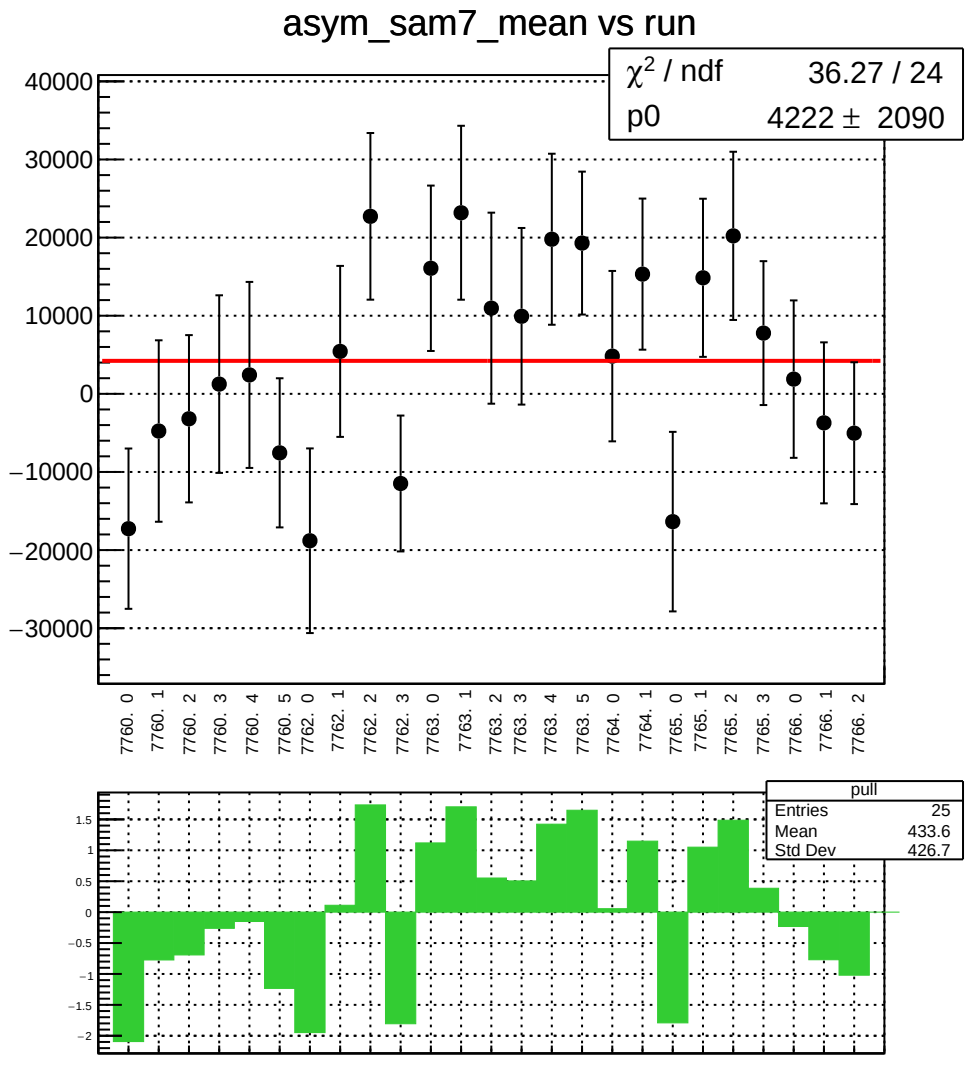

pull1D
Entries 25
Mean −0.0238
Std Dev 0.9653
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

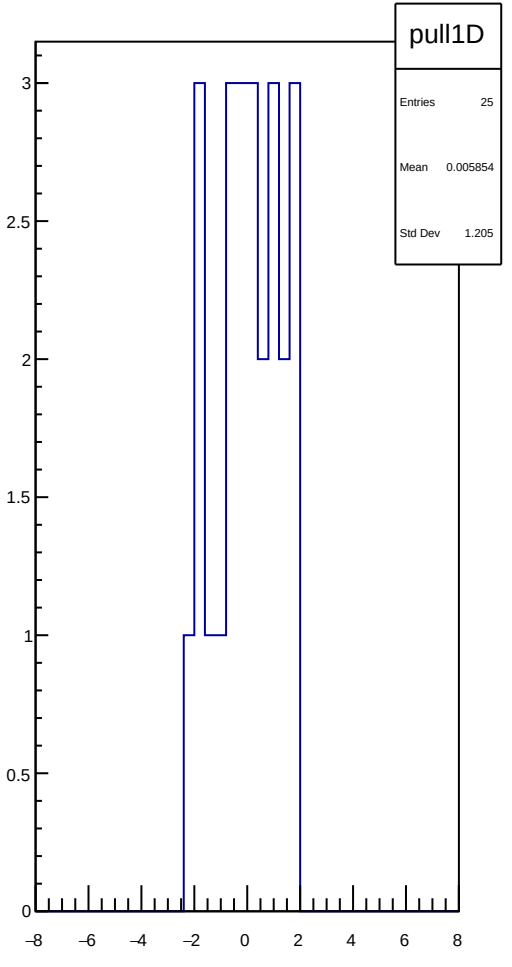

dit_asym_sam7_rms vs run
χ² / ndf 5787 / 24
p0 90.45 ± 0.1296
160
140
120
100
80
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

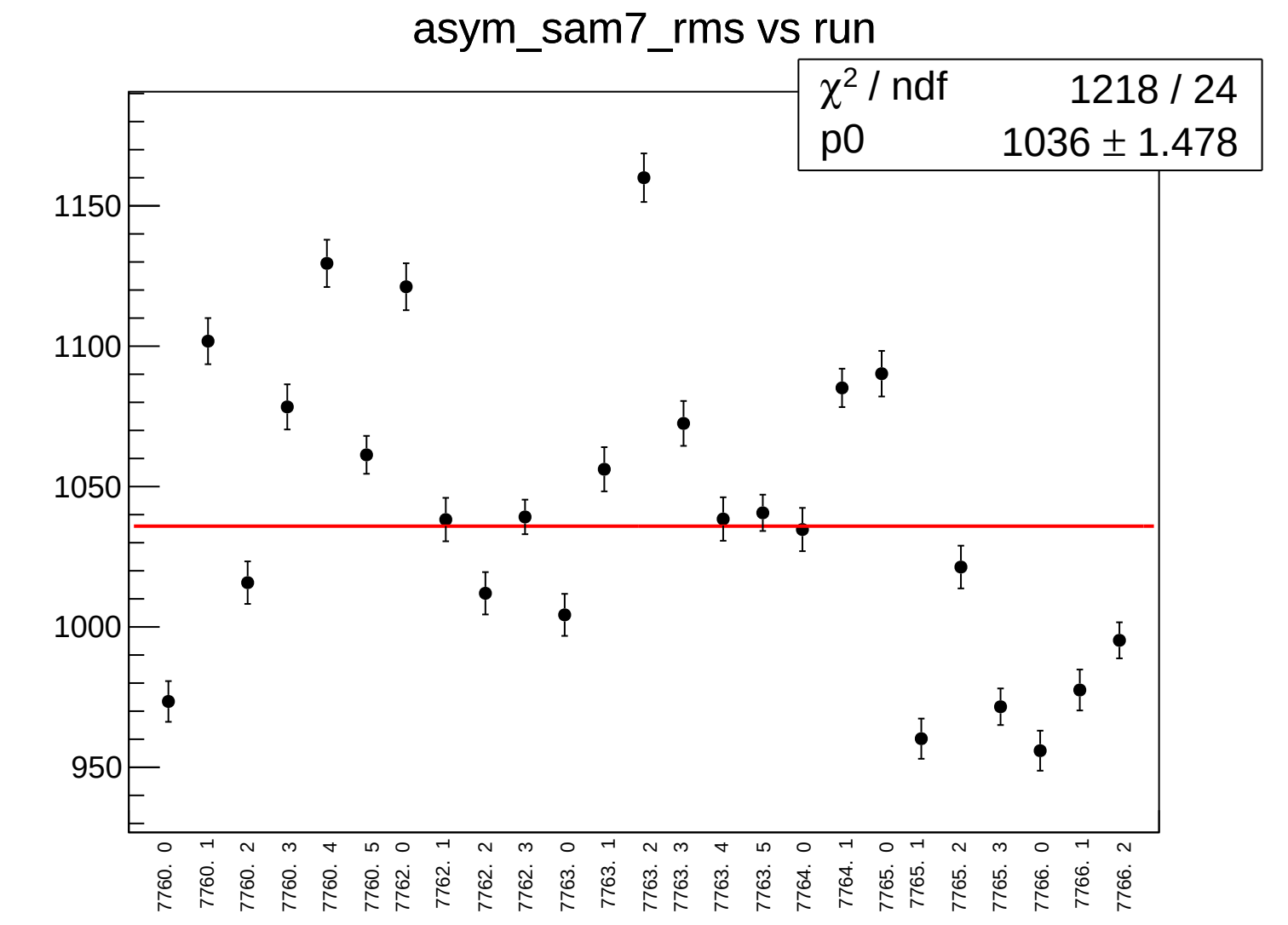

asym_sam7_correction_mean vs run
χ² / ndf 35.82 / 24
p0 −4400 ± 2096
30000
20000
10000
0
−10000
−20000
−30000
−40000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −447.3
Std Dev 454.3
2
1.5
1
0.5
0
−0.5
−1
−1.5

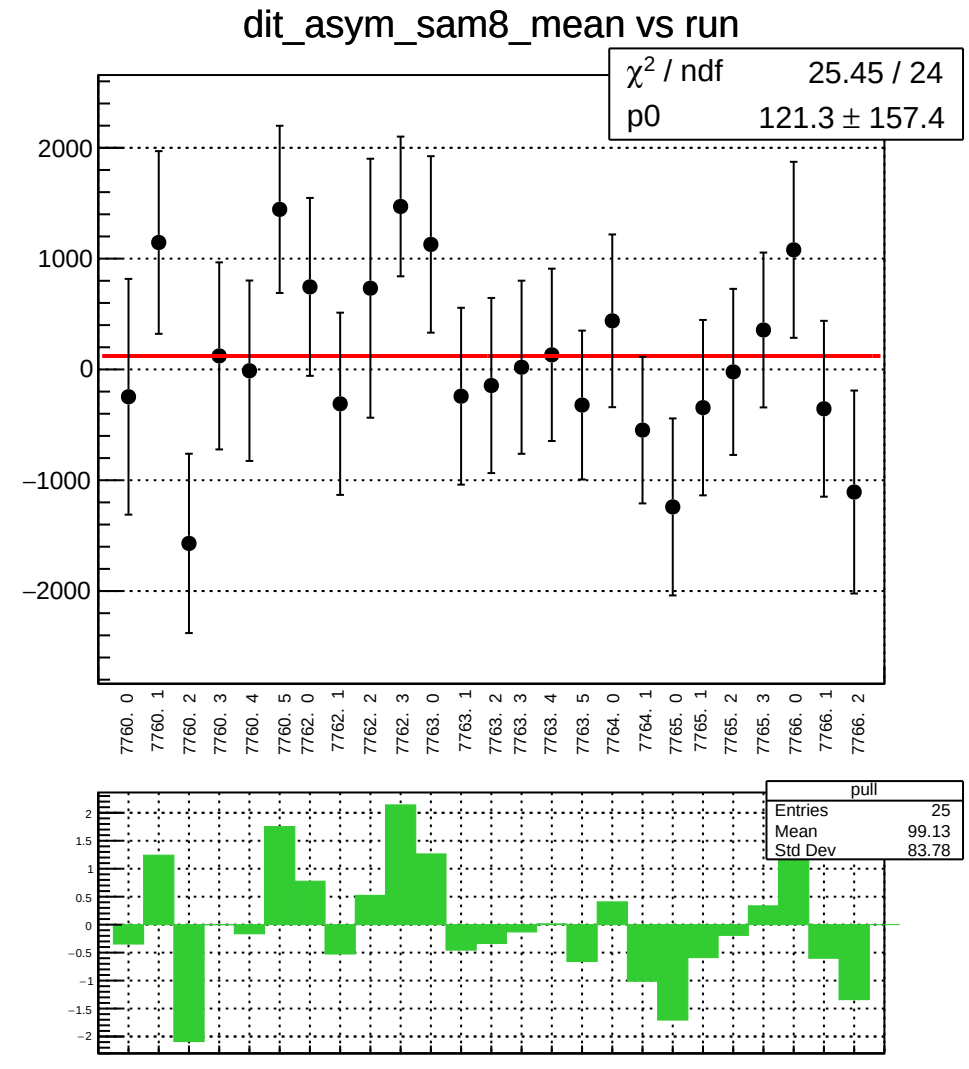

pull1D
Entries 25
Mean 0.005286
Std Dev 1.197
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

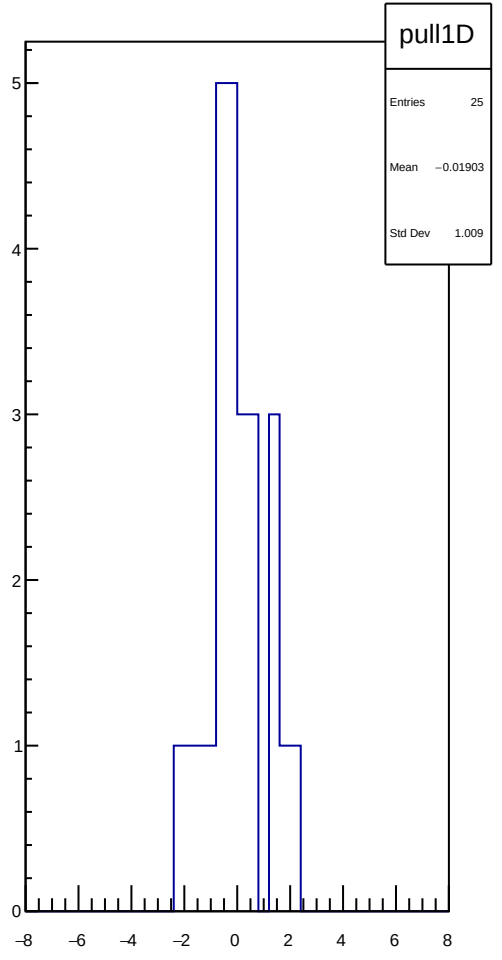

asym_sam7_correction_rms vs run
χ² / ndf 1184 / 24
p0 1039 ± 1.482
1150
1100
1050
1000
950
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

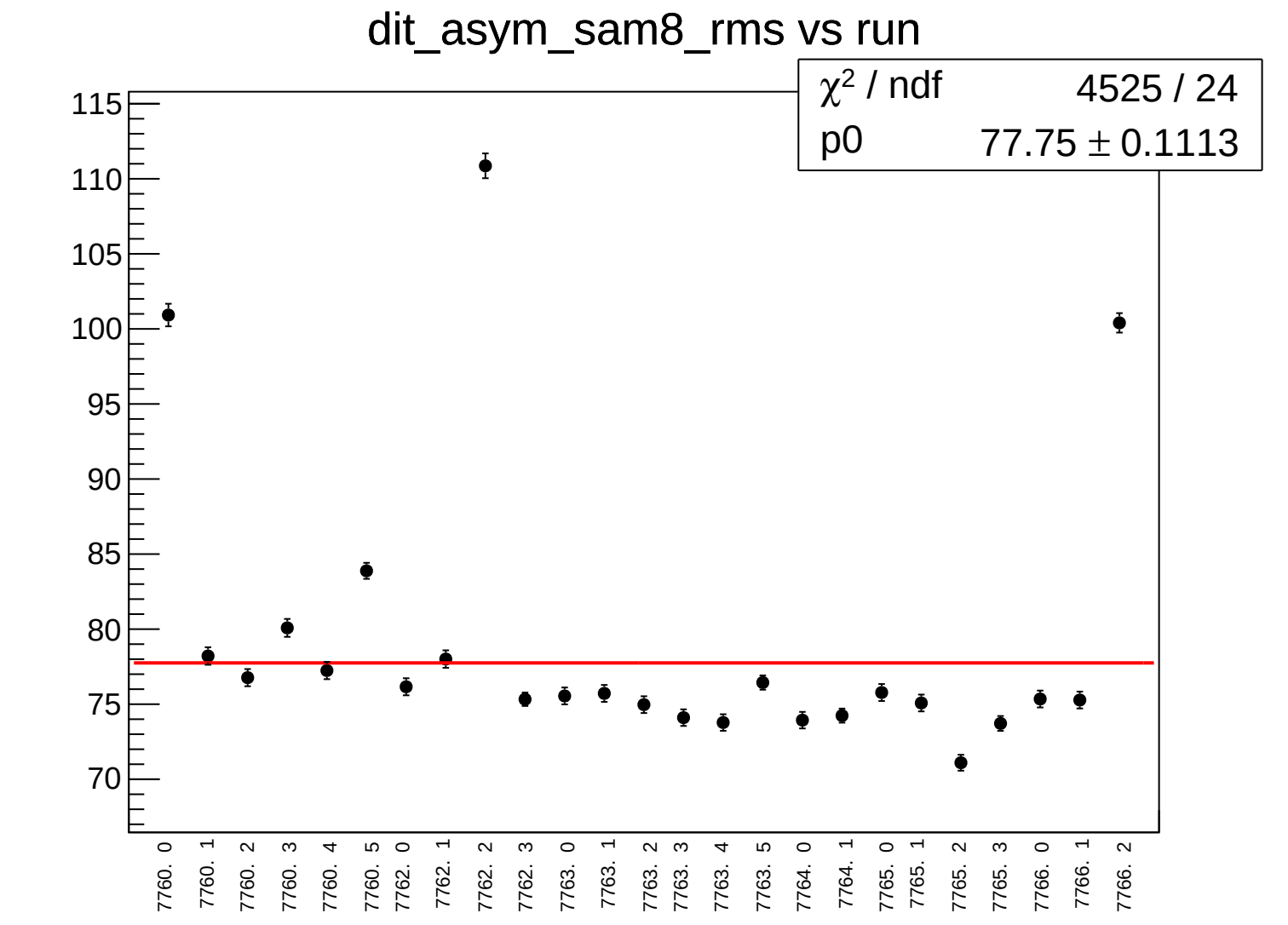

asym_sam7_mean vs run
χ² / ndf 36.27 / 24
p0 4222 ± 2090
40000
30000
20000
10000
0
−10000
−20000
−30000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 433.6
Std Dev 426.7
1.5
1
0.5
0
−0.5
−1
−1.5
−2

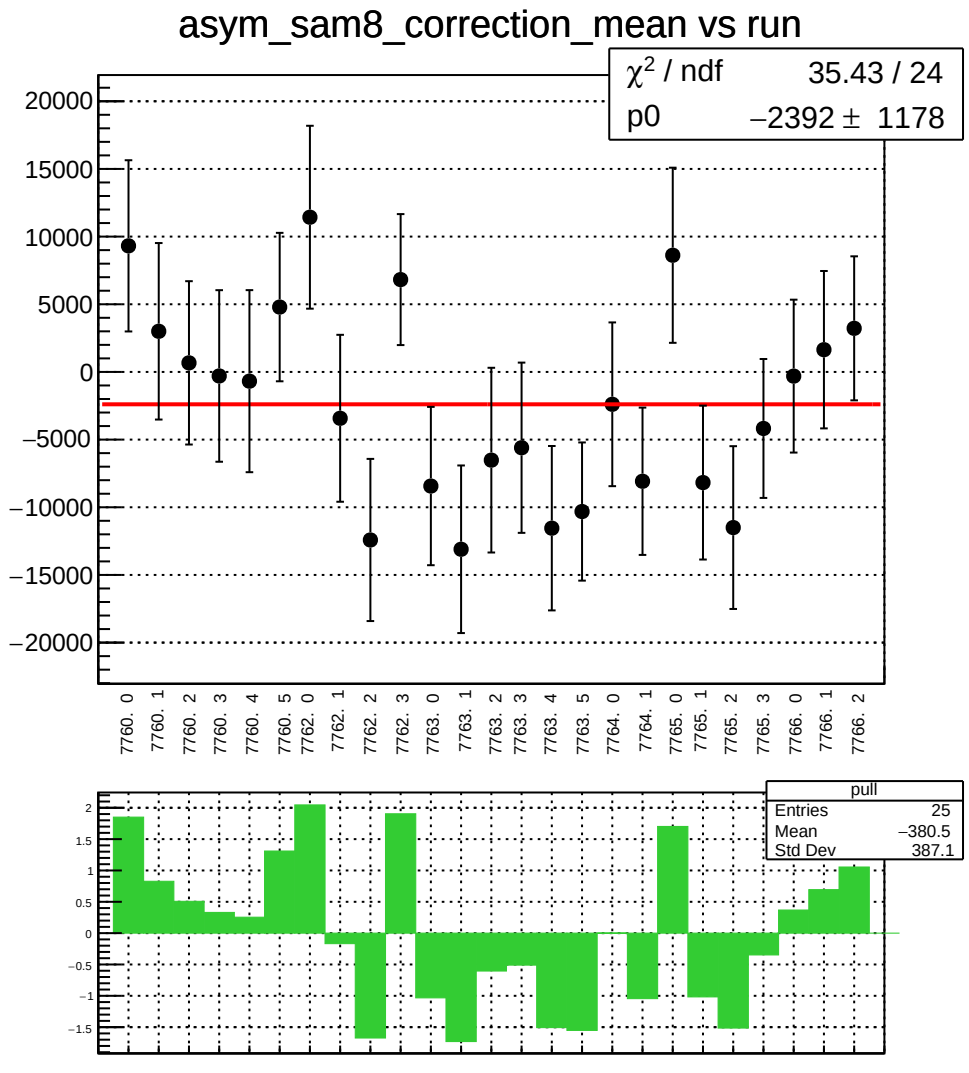

pull1D
Entries 25
Mean 0.005854
Std Dev 1.205
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

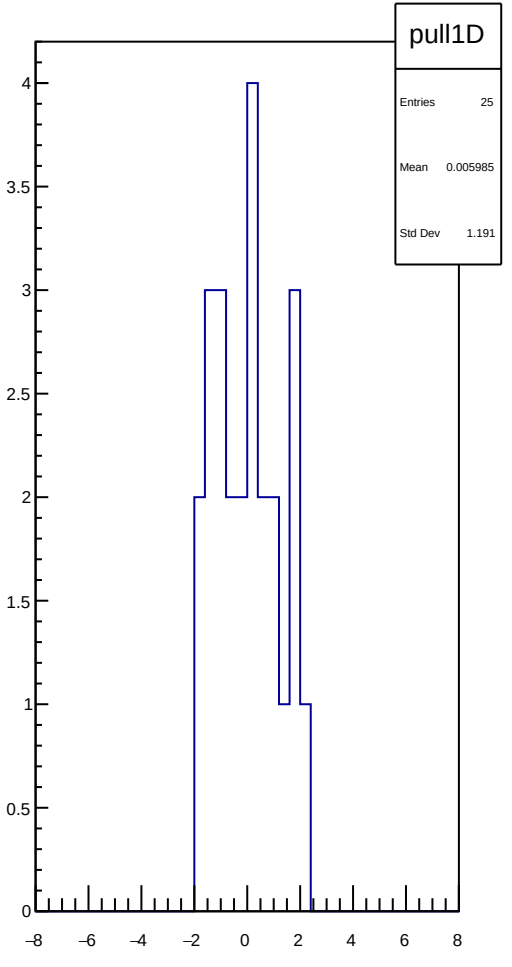

asym_sam7_rms vs run
χ² / ndf 1218 / 24
p0 1036 ± 1.478
1150
1100
1050
1000
950
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

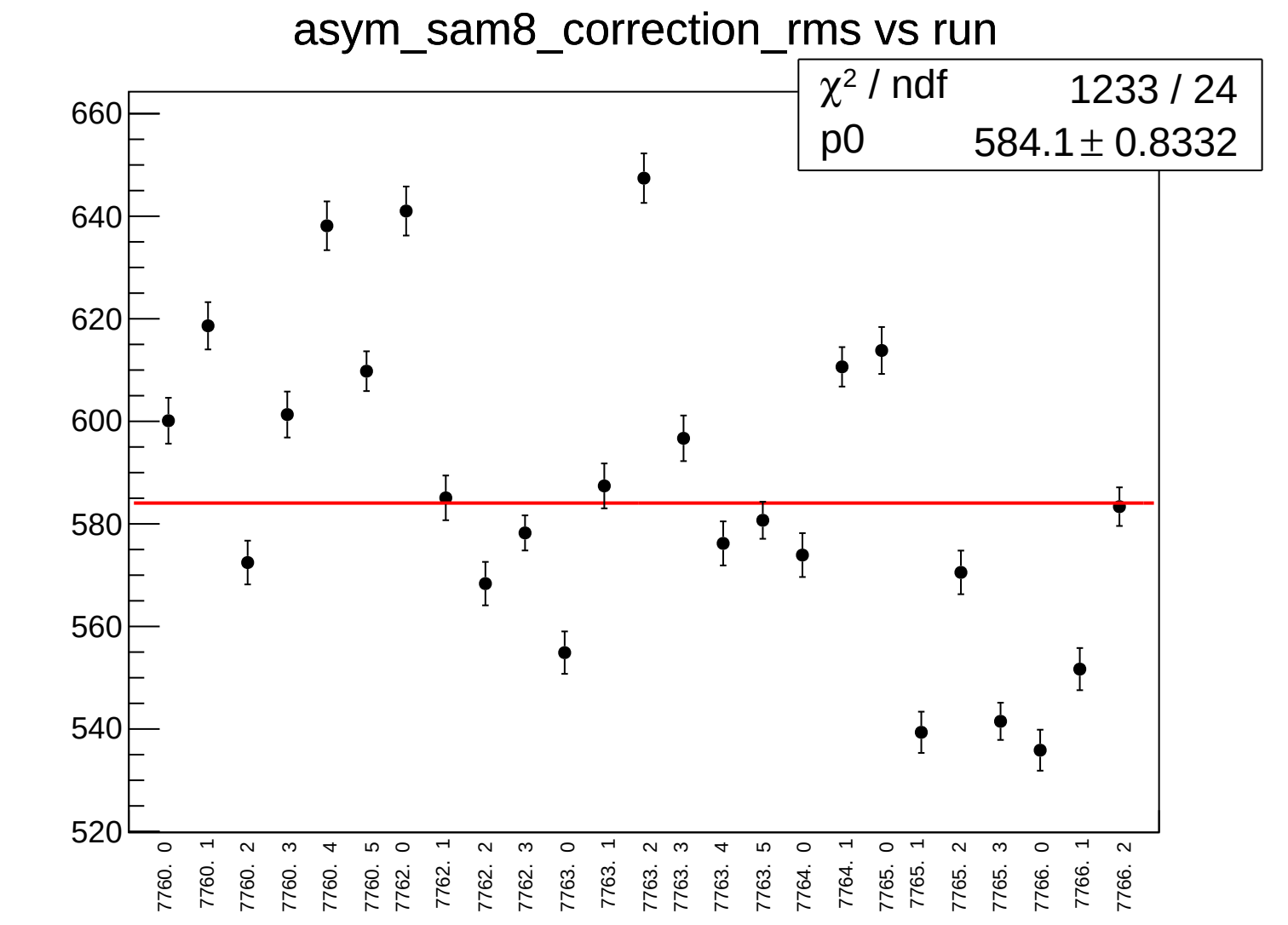

dit_asym_sam8_mean vs run
χ² / ndf 25.45 / 24
p0 121.3 ± 157.4
2000
1000
0
−1000
−2000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 99.13
Std Dev 83.78
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

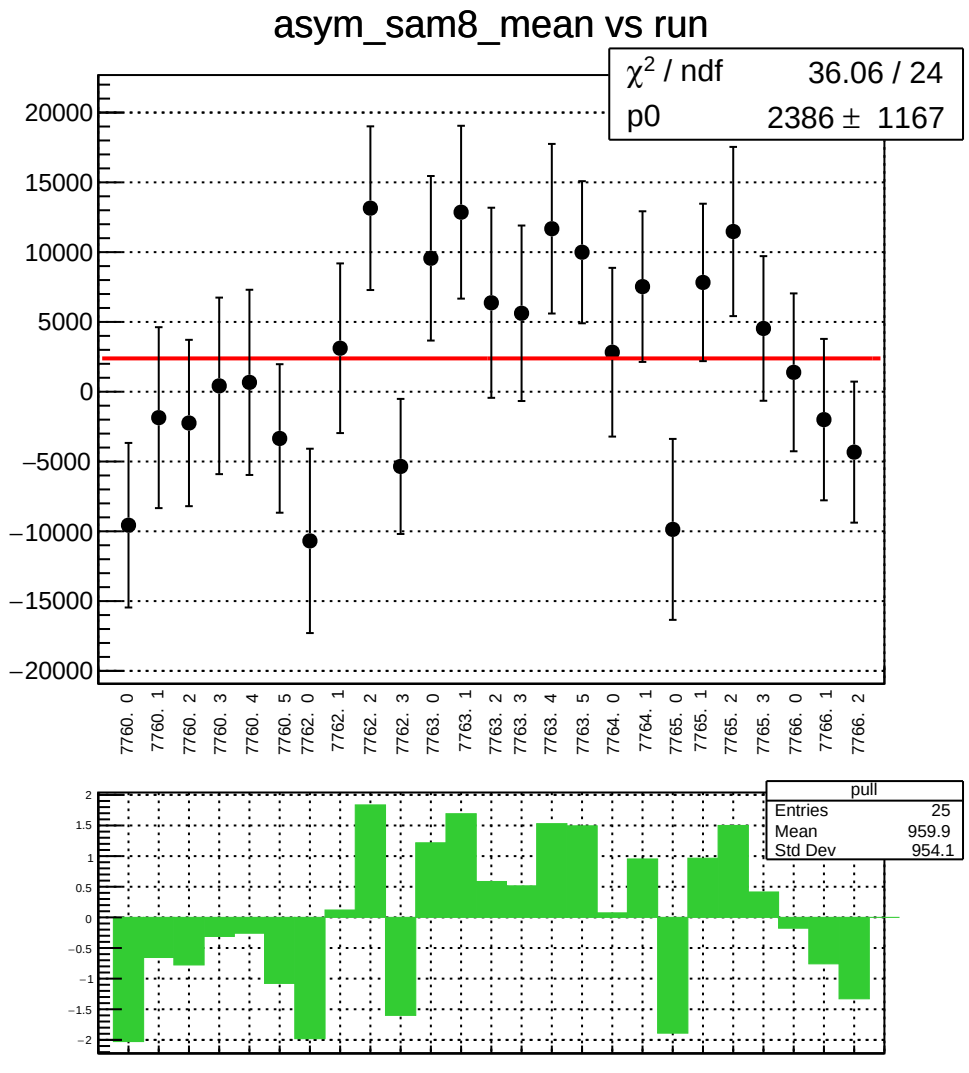

pull1D
Entries 25
Mean −0.01903
Std Dev 1.009
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

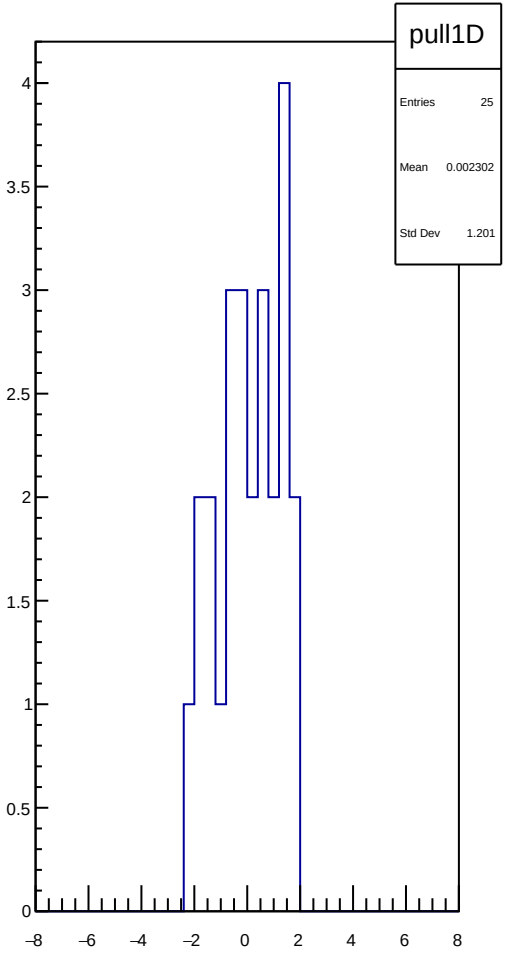

dit_asym_sam8_rms vs run
χ² / ndf 4525 / 24
p0 77.75 ± 0.1113
115
110
105
100
95
90
85
80
75
70
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

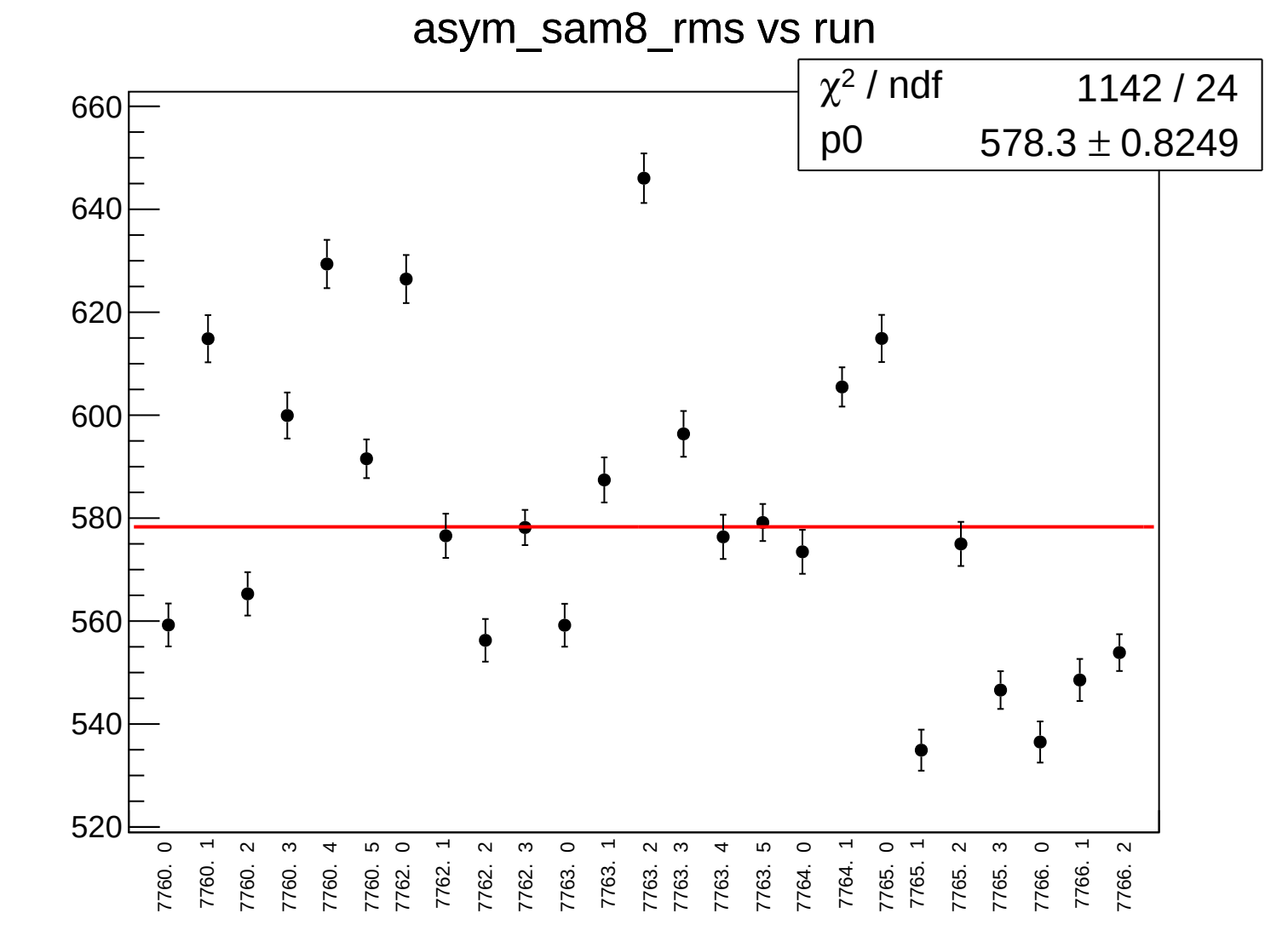

asym_sam8_correction_mean vs run
χ² / ndf 35.43 / 24
p0 −2392 ± 1178
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −380.5
Std Dev 387.1
2
1.5
1
0.5
0
−0.5
−1
−1.5

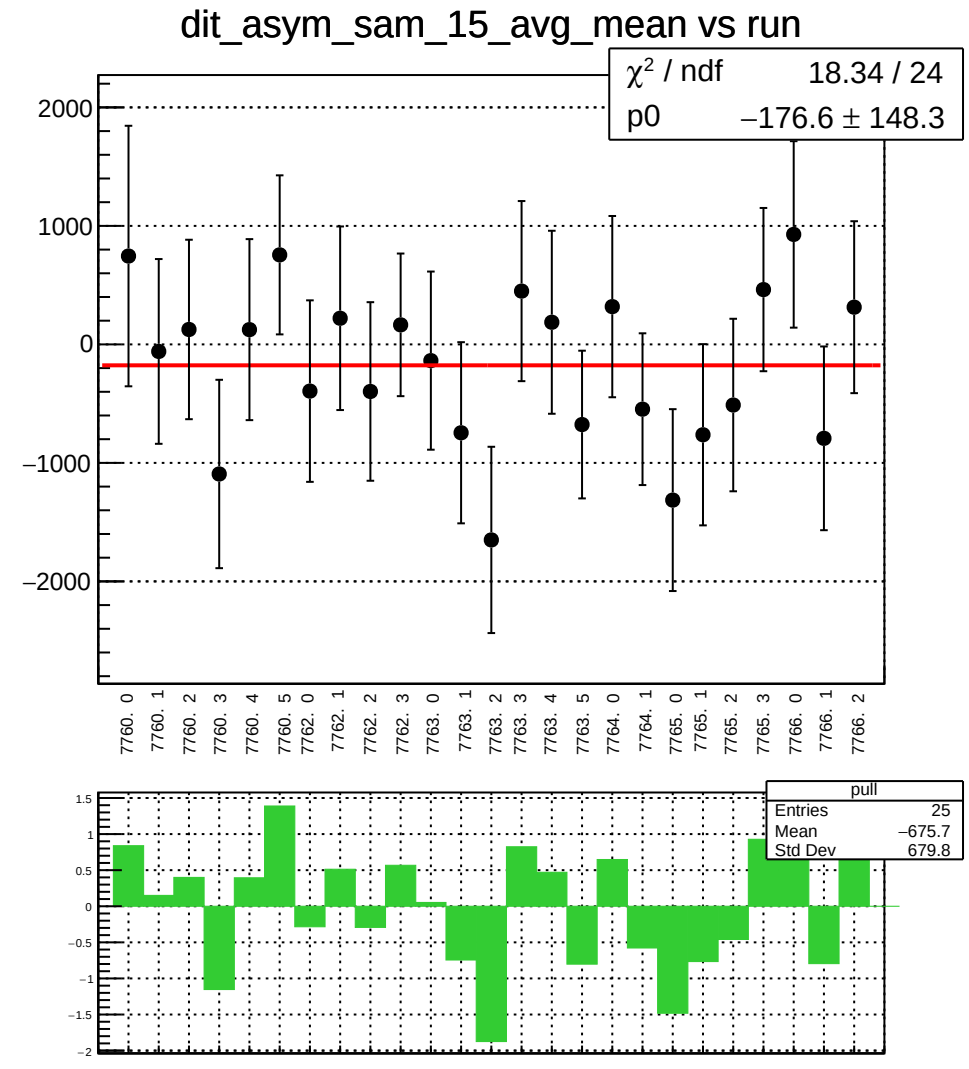

pull1D
Entries 25
Mean 0.005985
Std Dev 1.191
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

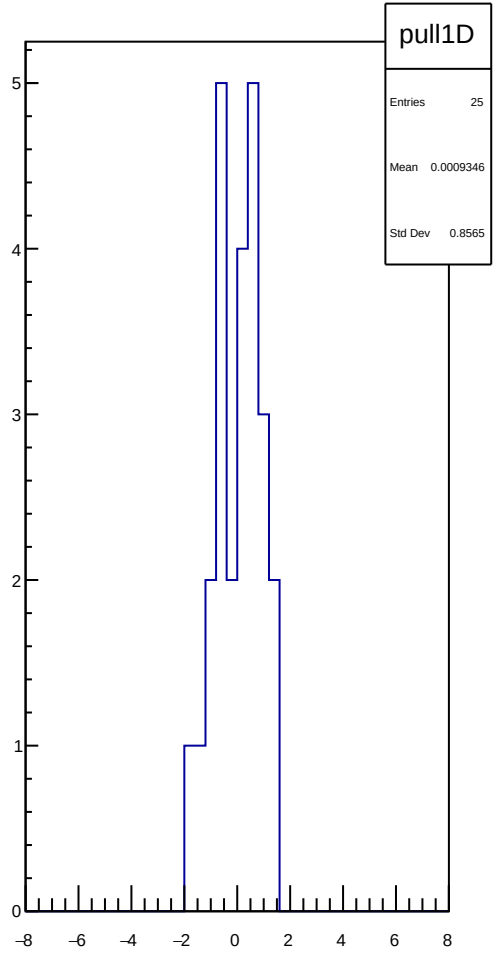

asym_sam8_correction_rms vs run
χ² / ndf 1233 / 24
p0 584.1 ± 0.8332
660
640
620
600
580
560
540
520
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

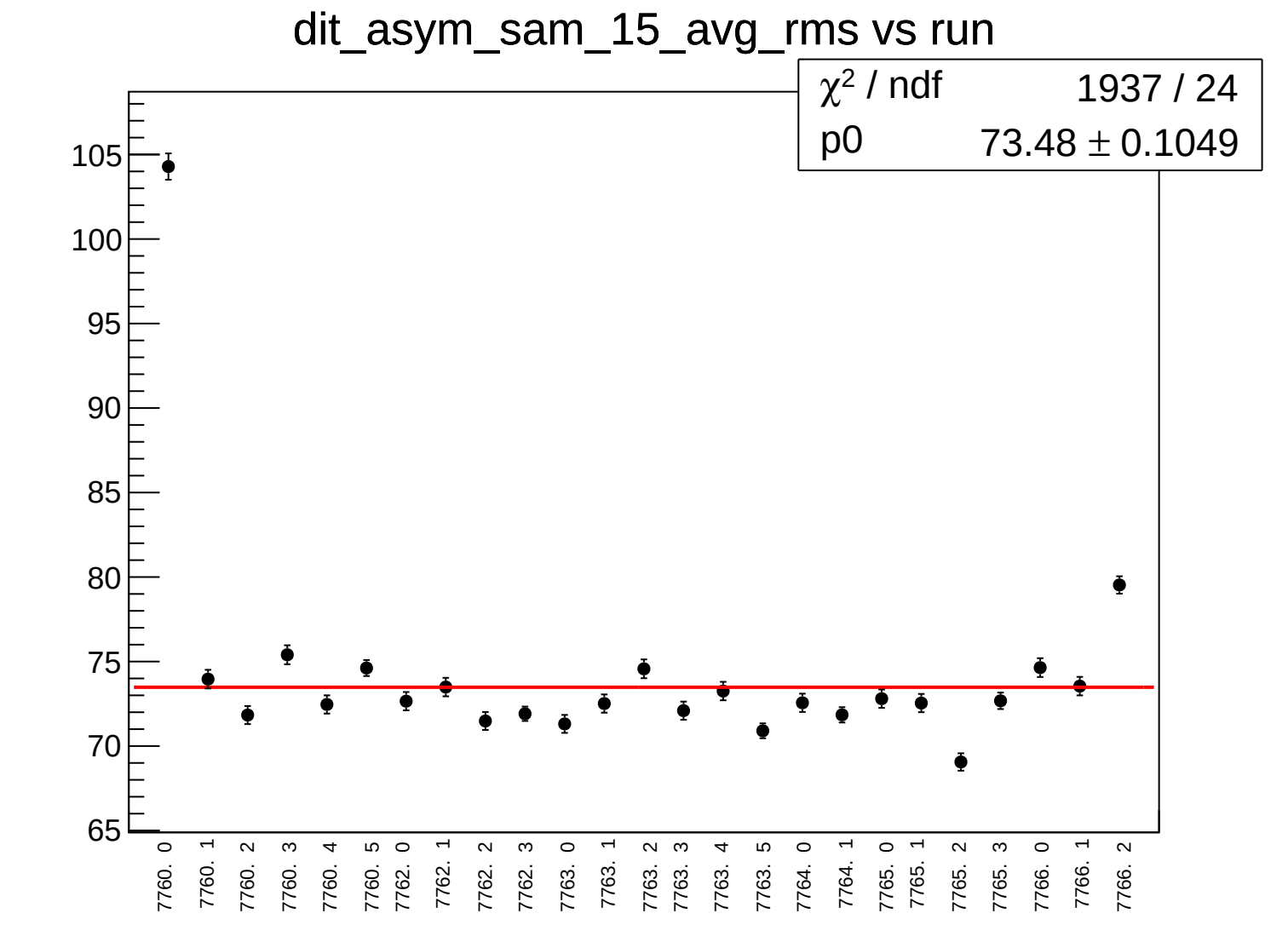

asym_sam8_mean vs run
χ² / ndf 36.06 / 24
p0 2386 ± 1167
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 959.9
Std Dev 954.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

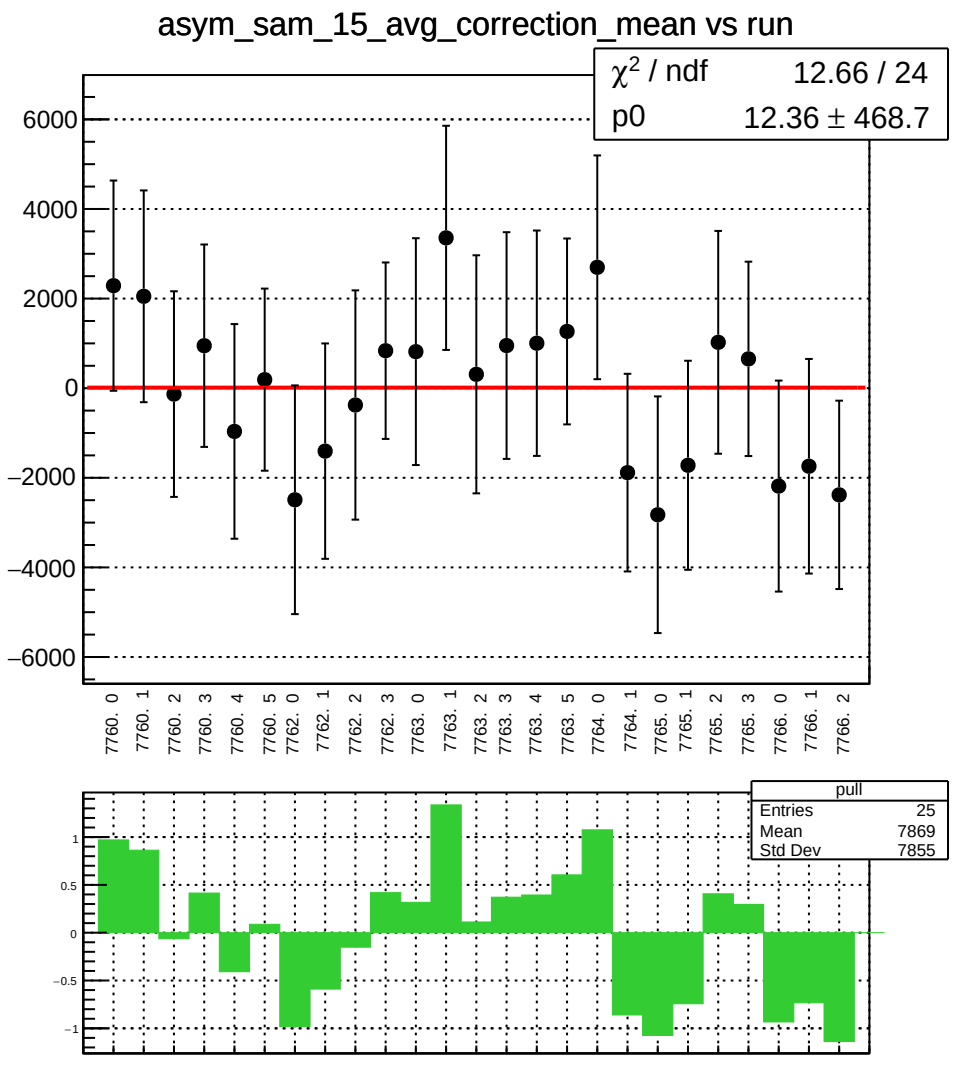

pull1D
Entries 25
Mean 0.002302
Std Dev 1.201
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

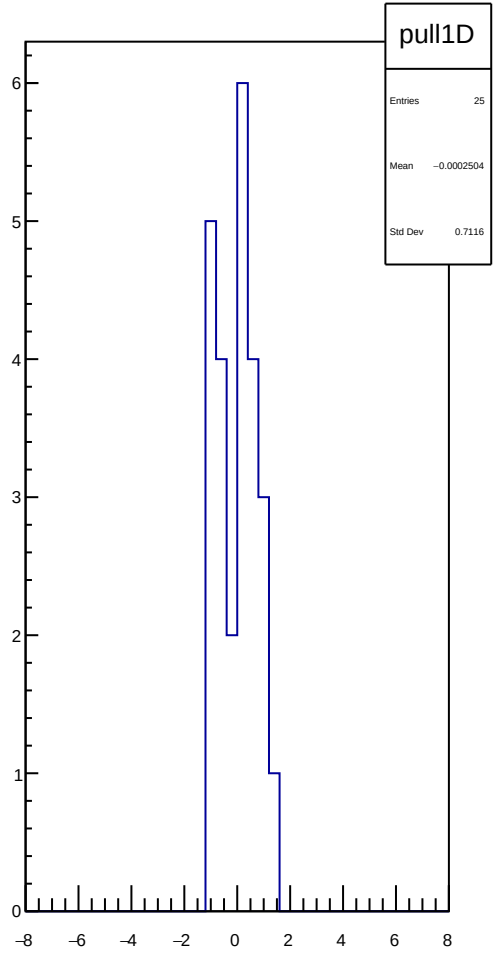

asym_sam8_rms vs run
χ² / ndf 1142 / 24
p0 578.3 ± 0.8249
660
640
620
600
580
560
540
520
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

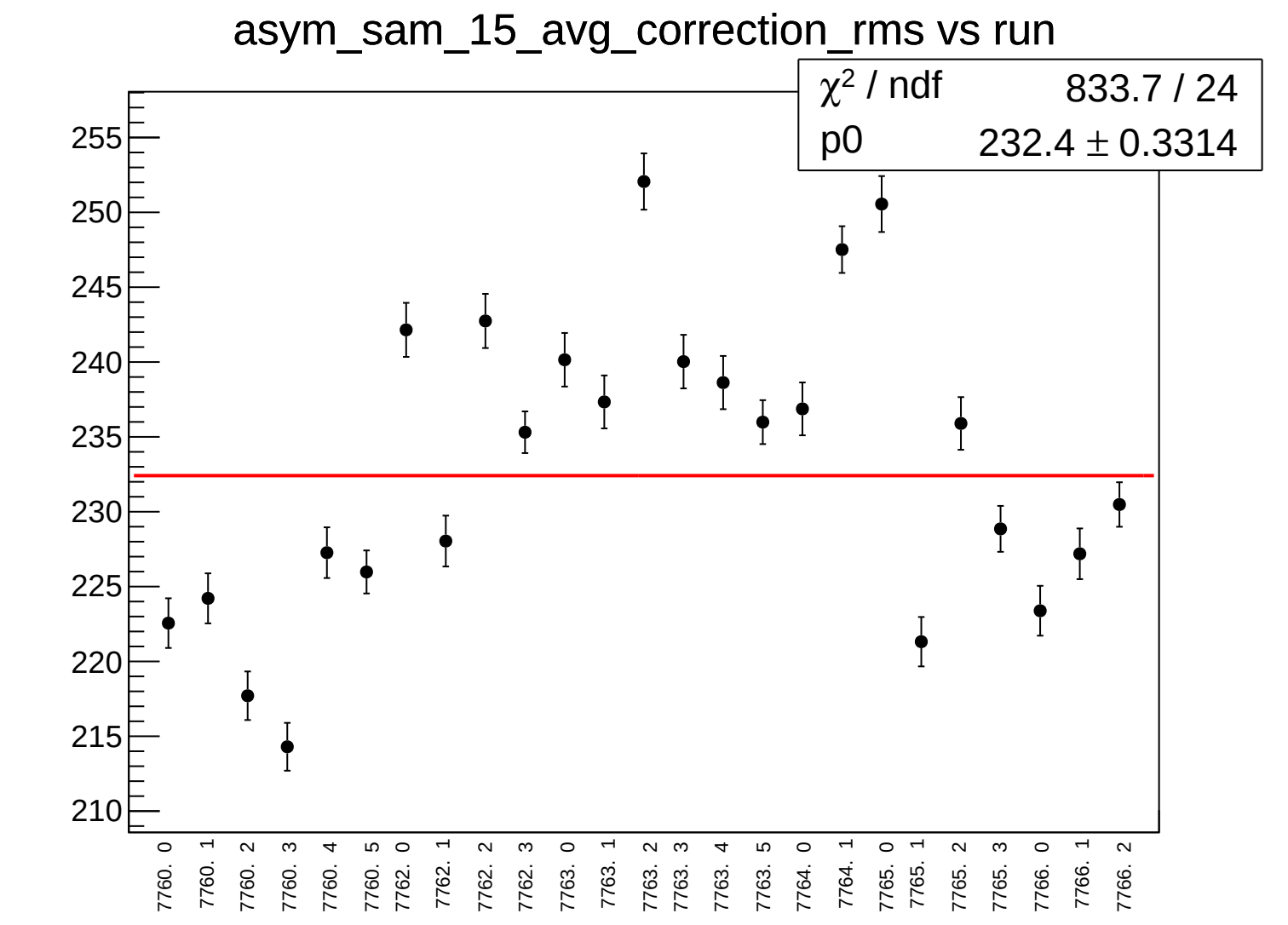

dit_asym_sam_15_avg_mean vs run
χ² / ndf 18.34 / 24
p0 −176.6 ± 148.3
2000
1000
0
−1000
−2000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −675.7
Std Dev 679.8
1.5
1
0.5
0
−0.5
−1
−1.5
−2

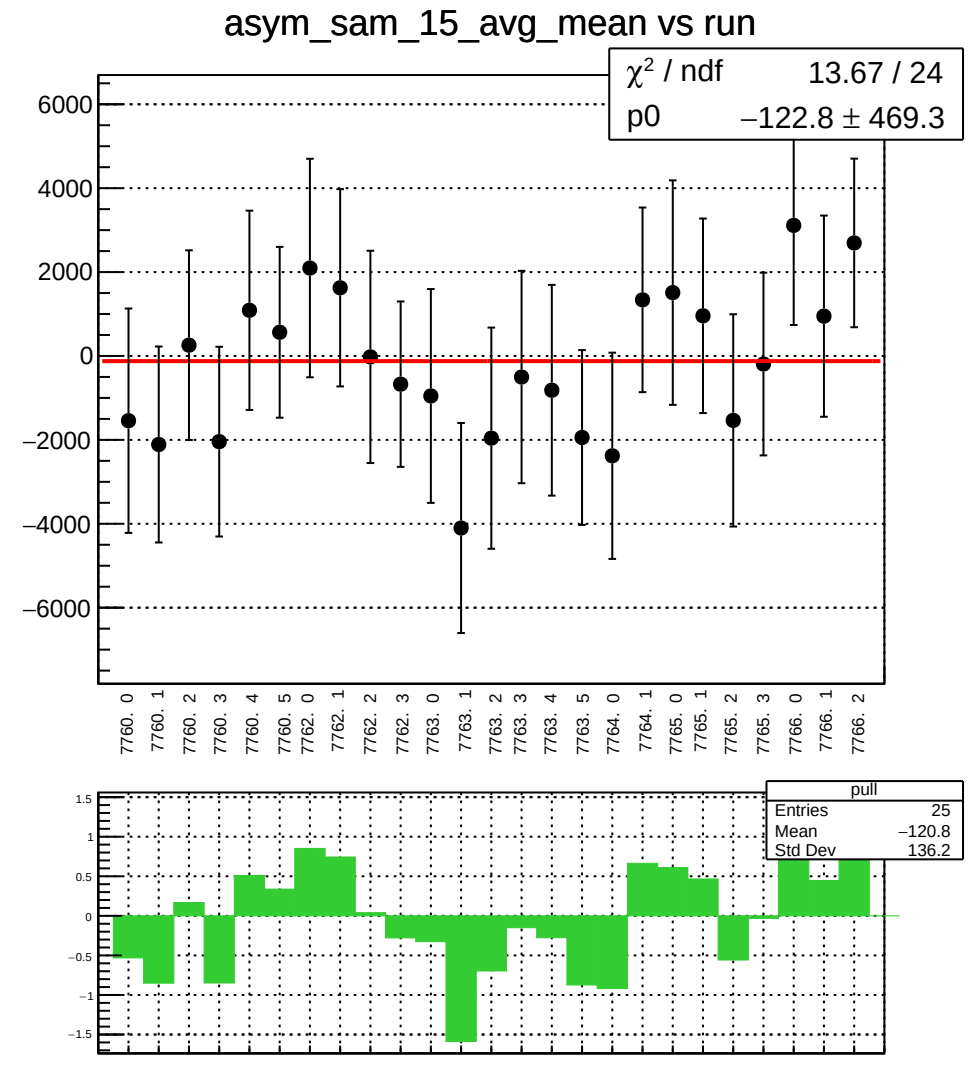

pull1D
Entries 25
Mean 0.0009346
Std Dev 0.8565
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

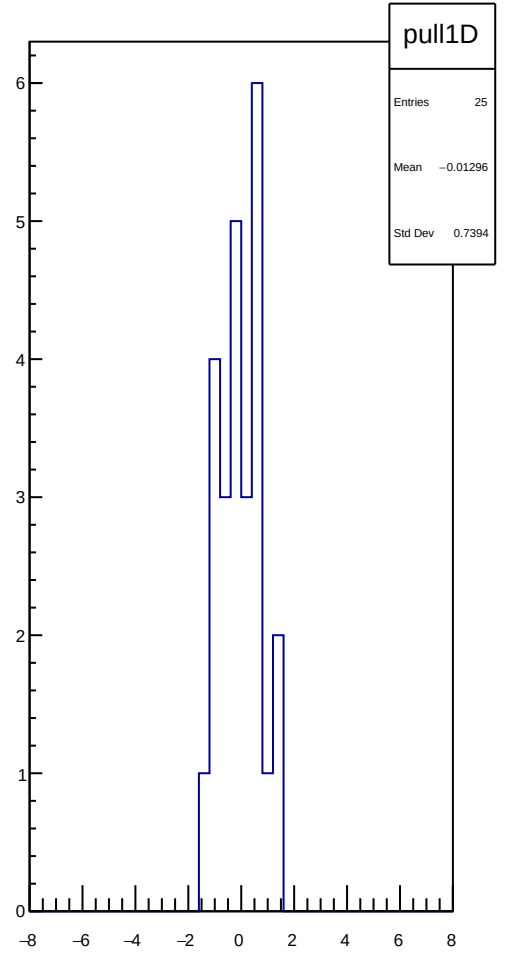

dit_asym_sam_15_avg_rms vs run
χ² / ndf 1937 / 24
p0 73.48 ± 0.1049
105
100
95
90
85
80
75
70
65
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

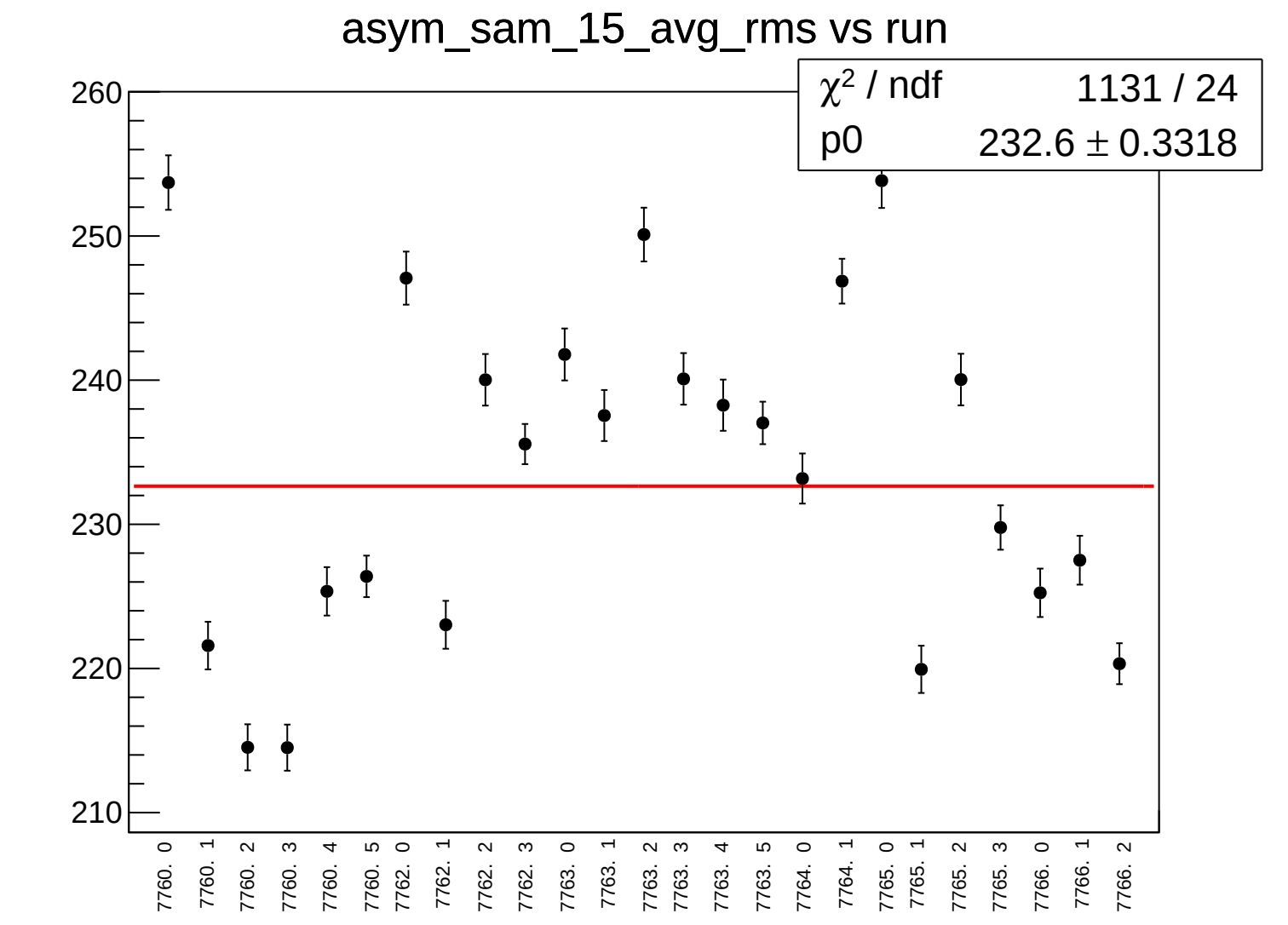

asym_sam_15_avg_correction_mean vs run
χ² / ndf 12.66 / 24
p0 12.36 ± 468.7
6000
4000
2000
0
−2000
−4000
−6000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 7869
Std Dev 7855
1
0.5
0
−0.5
−1

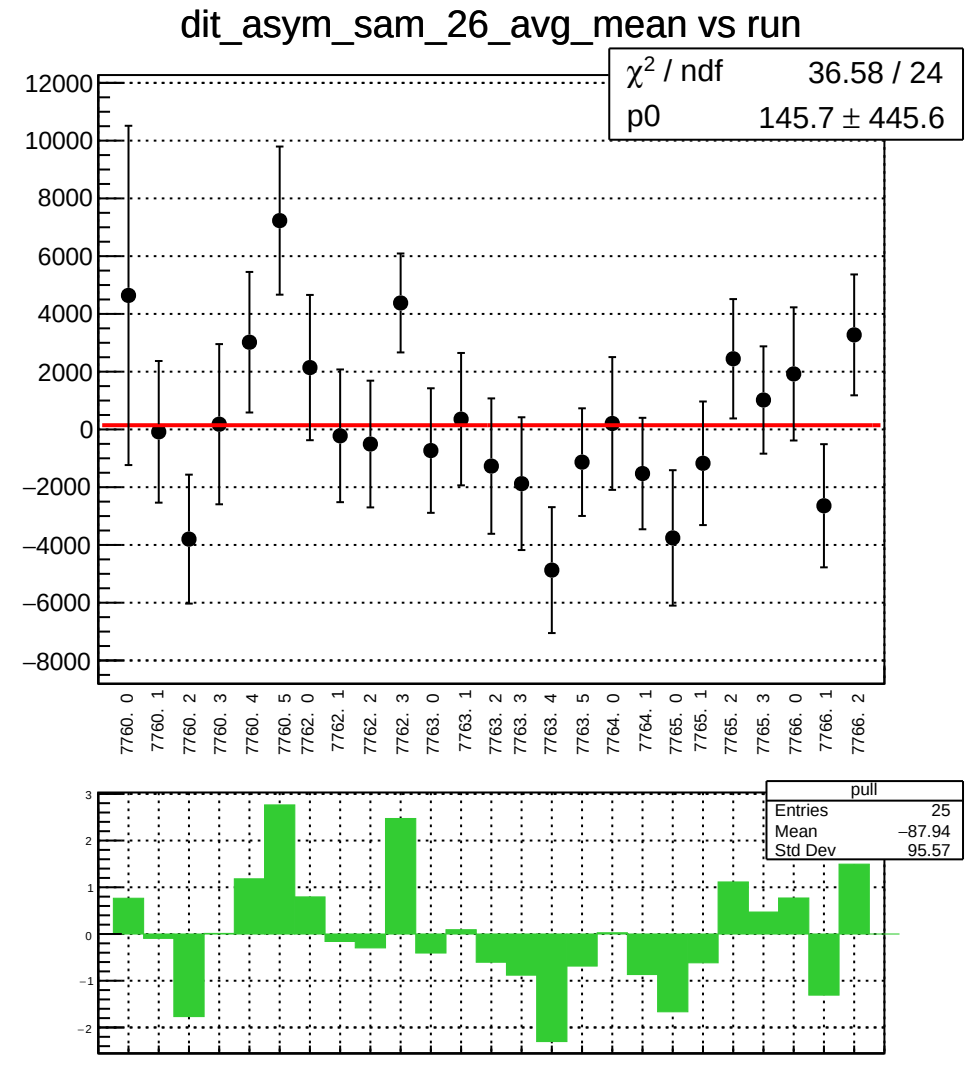

pull1D
Entries 25
Mean −0.0002504
Std Dev 0.7116
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

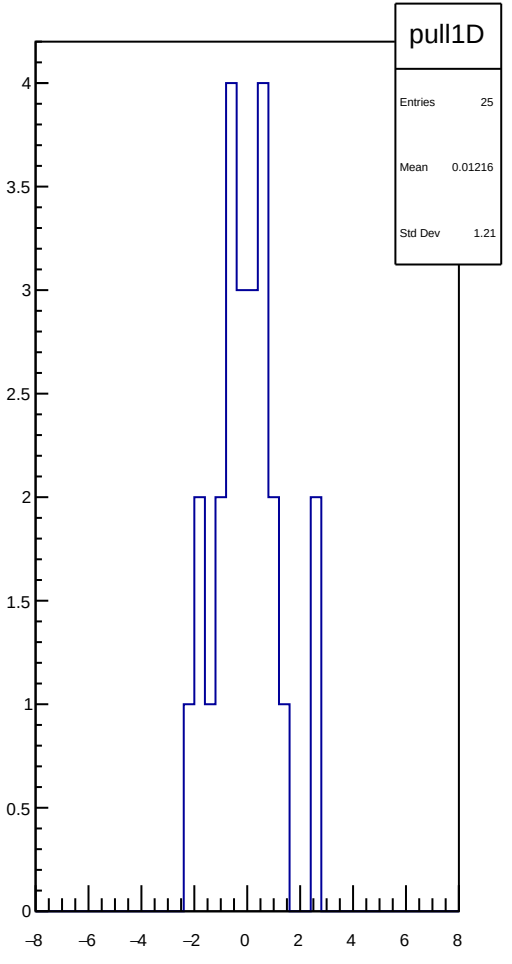

asym_sam_15_avg_correction_rms vs run
χ² / ndf 833.7 / 24
p0 232.4 ± 0.3314
255
250
245
240
235
230
225
220
215
210
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

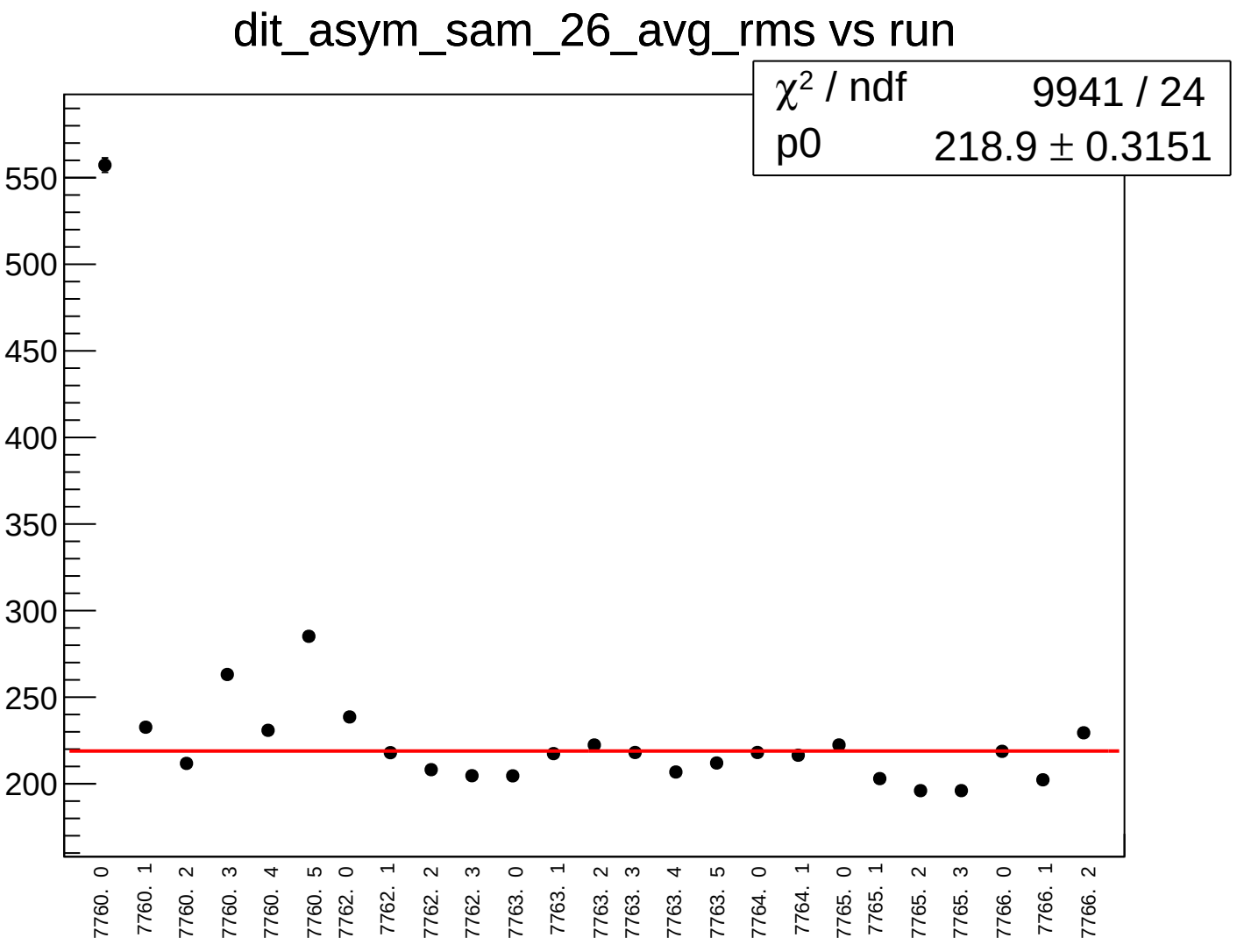

asym_sam_15_avg_mean vs run
χ² / ndf 13.67 / 24
p0 −122.8 ± 469.3
6000
4000
2000
0
−2000
−4000
−6000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −120.8
Std Dev 136.2
1.5
1
0.5
0
−0.5
−1
−1.5

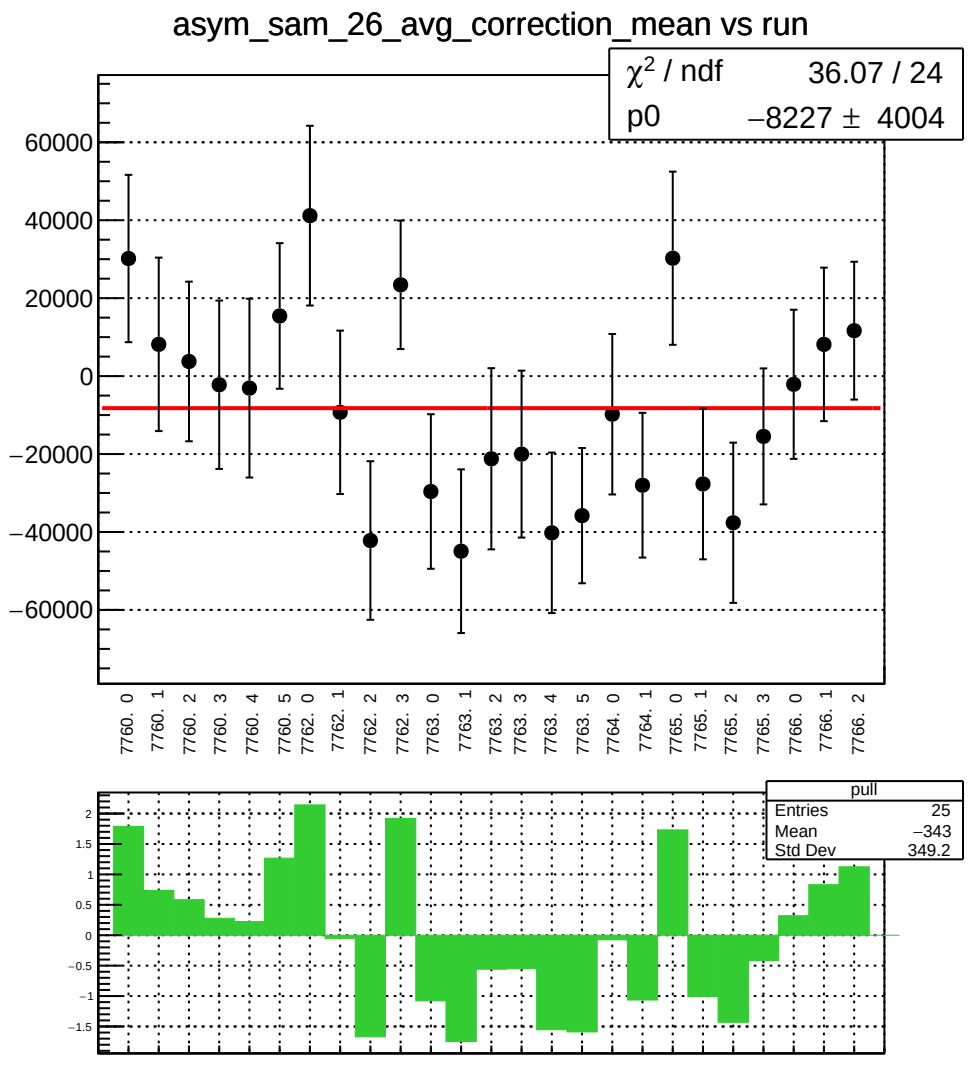

pull1D
Entries 25
Mean −0.01296
Std Dev 0.7394
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

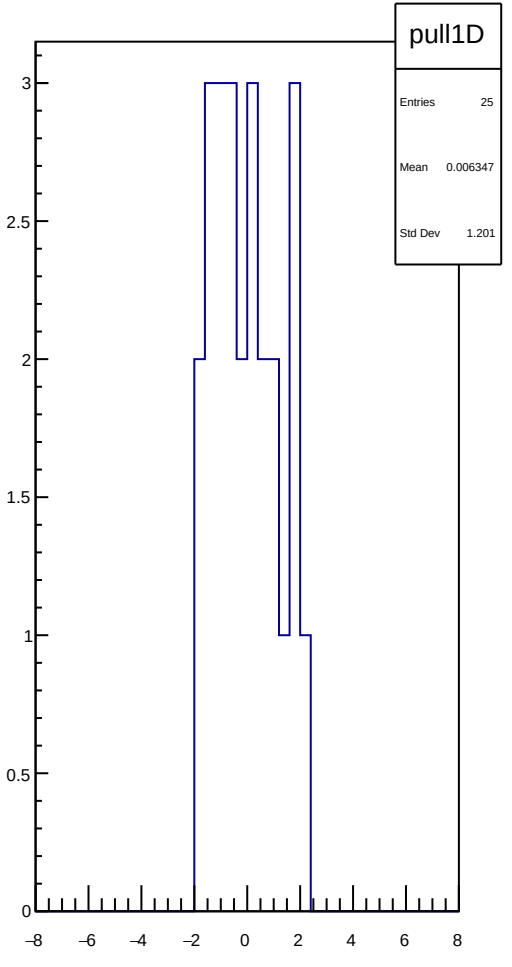

asym_sam_15_avg_rms vs run
χ² / ndf 1131 / 24
p0 232.6 ± 0.3318
260
250
240
230
220
210
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

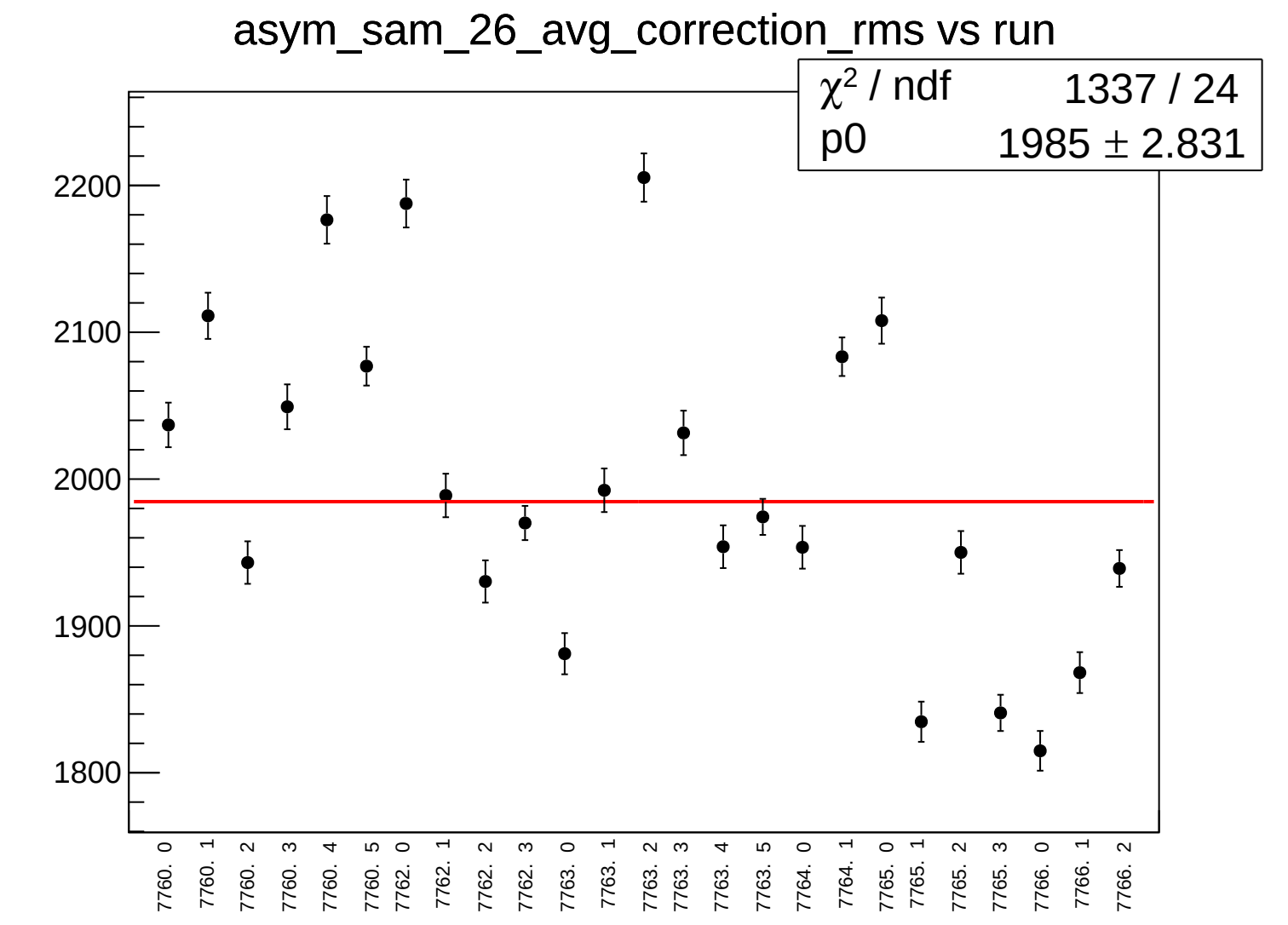

dit_asym_sam_26_avg_mean vs run
χ² / ndf 36.58 / 24
p0 145.7 ± 445.6
12000
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −87.94
Std Dev 95.57
3
2
1
0
−1
−2

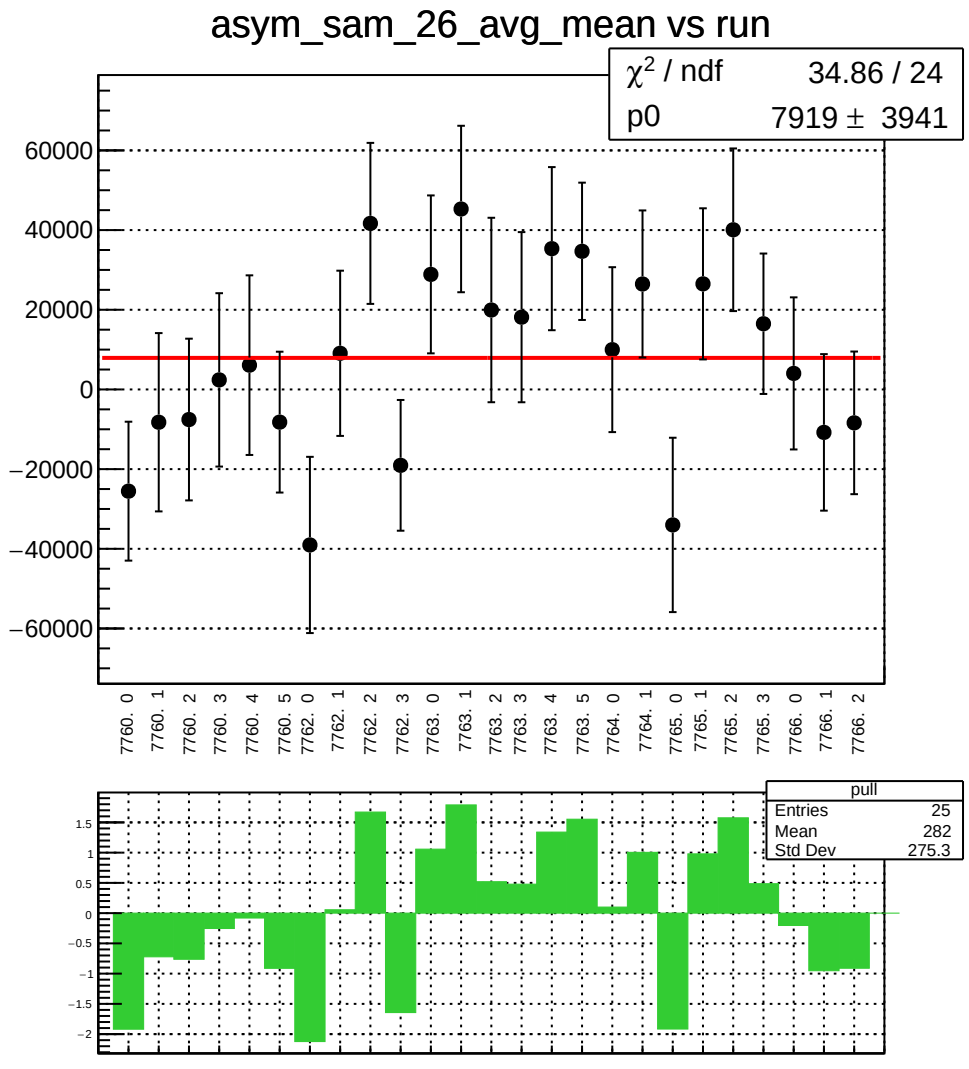

pull1D
Entries 25
Mean 0.01216
Std Dev 1.21
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

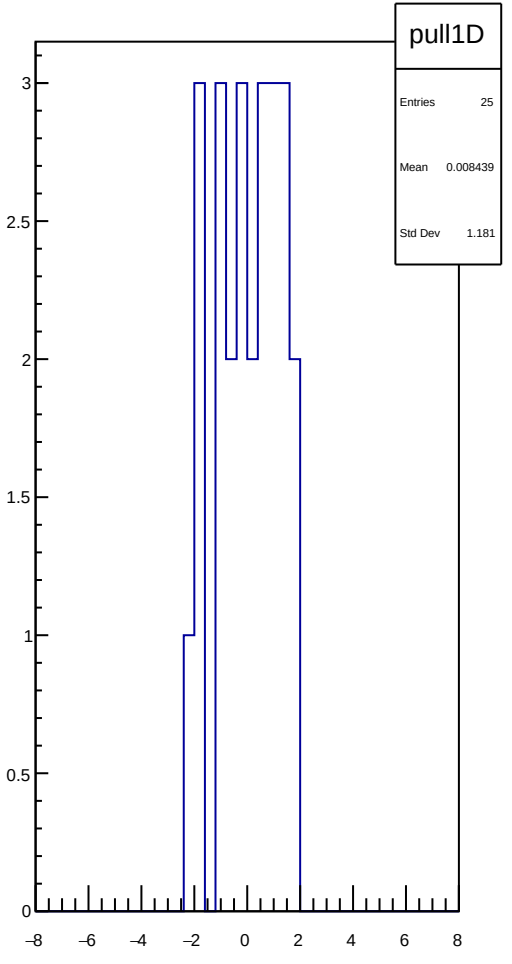

dit_asym_sam_26_avg_rms vs run
χ² / ndf 9941 / 24
p0 218.9 ± 0.3151
550
500
450
400
350
300
250
200
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

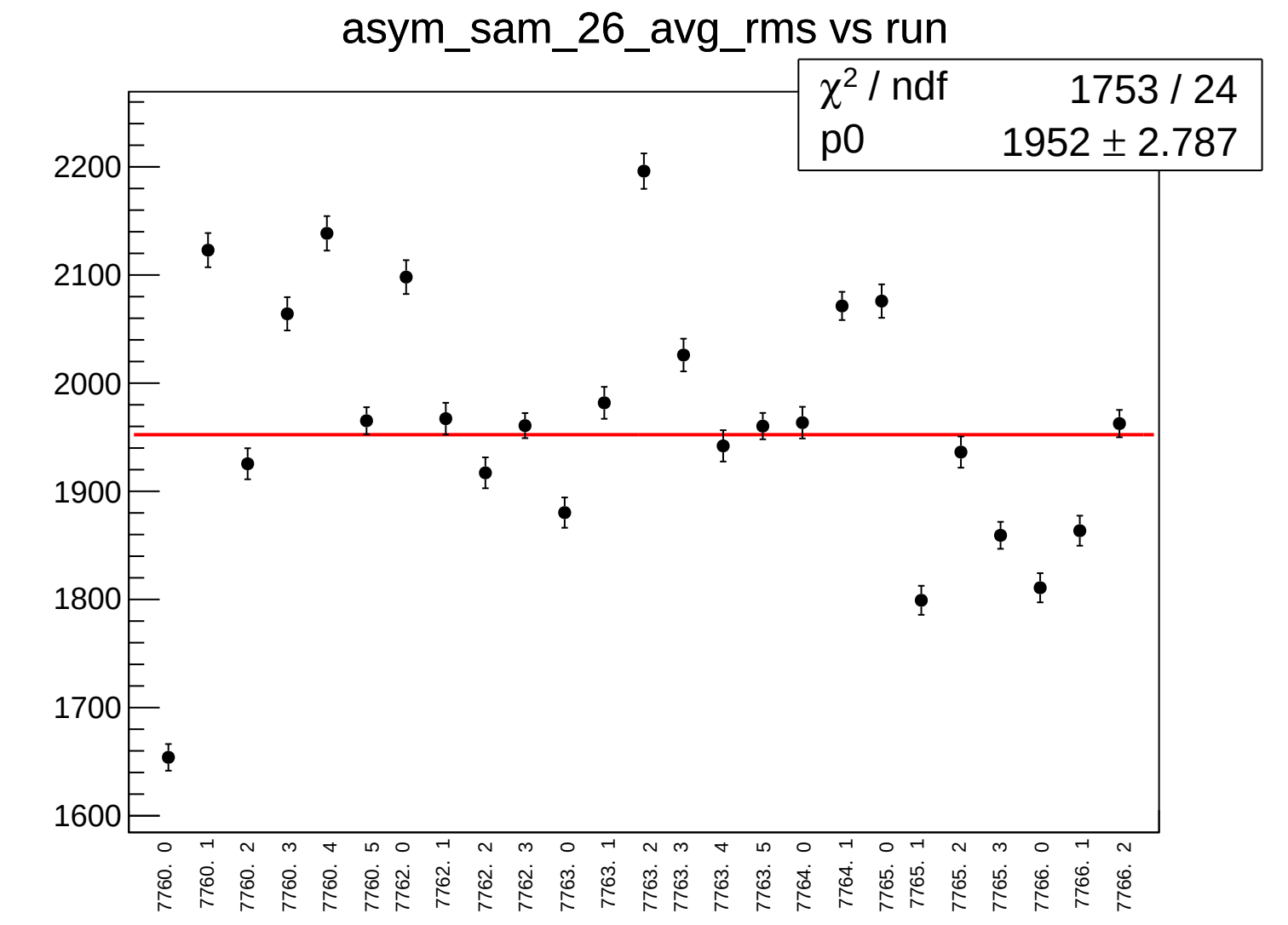

asym_sam_26_avg_correction_mean vs run
χ² / ndf 36.07 / 24
p0 −8227 ± 4004
60000
40000
20000
0
−20000
−40000
−60000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −343
Std Dev 349.2
2
1.5
1
0.5
0
−0.5
−1
−1.5

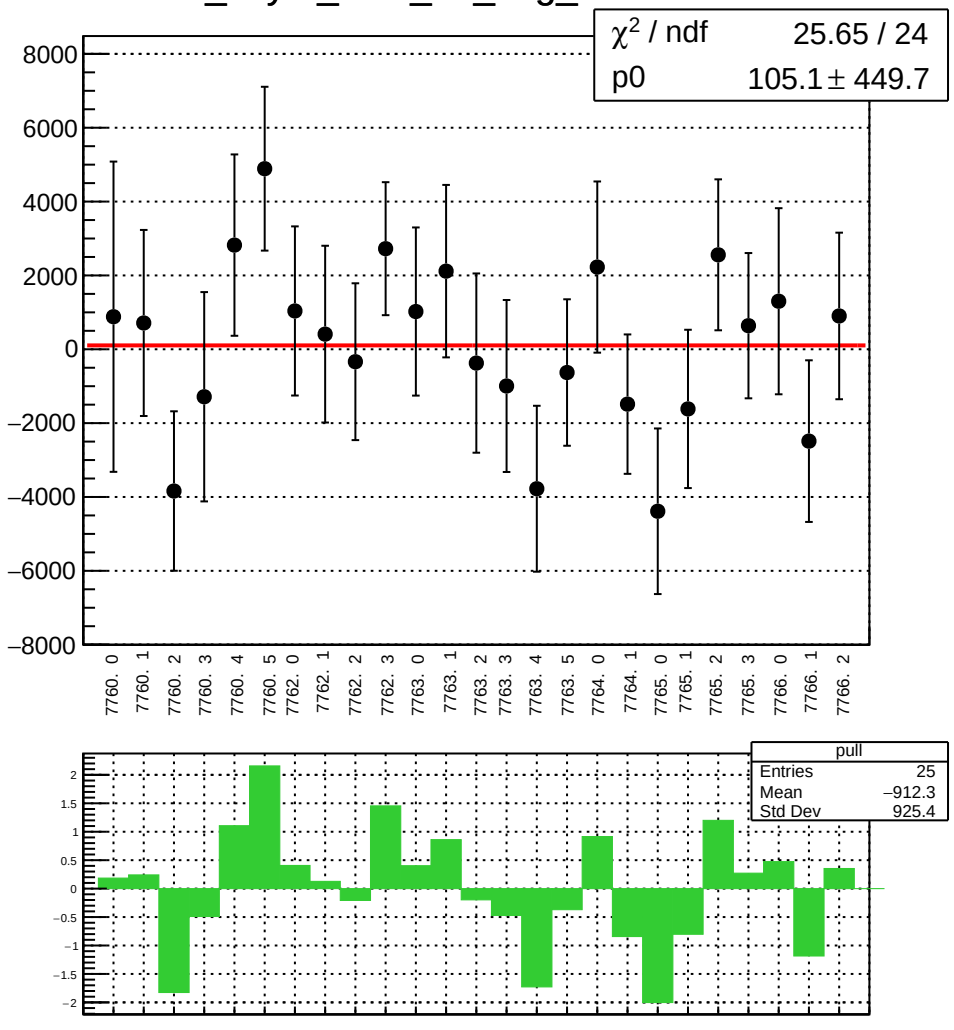

pull1D
Entries 25
Mean 0.006347
Std Dev 1.201
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

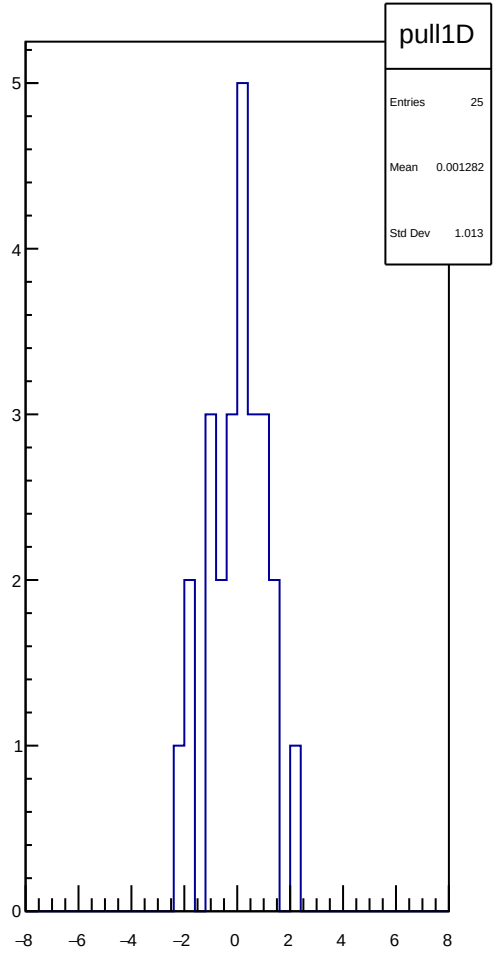

asym_sam_26_avg_correction_rms vs run
χ² / ndf 1337 / 24
p0 1985 ± 2.831
2200
2100
2000
1900
1800
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

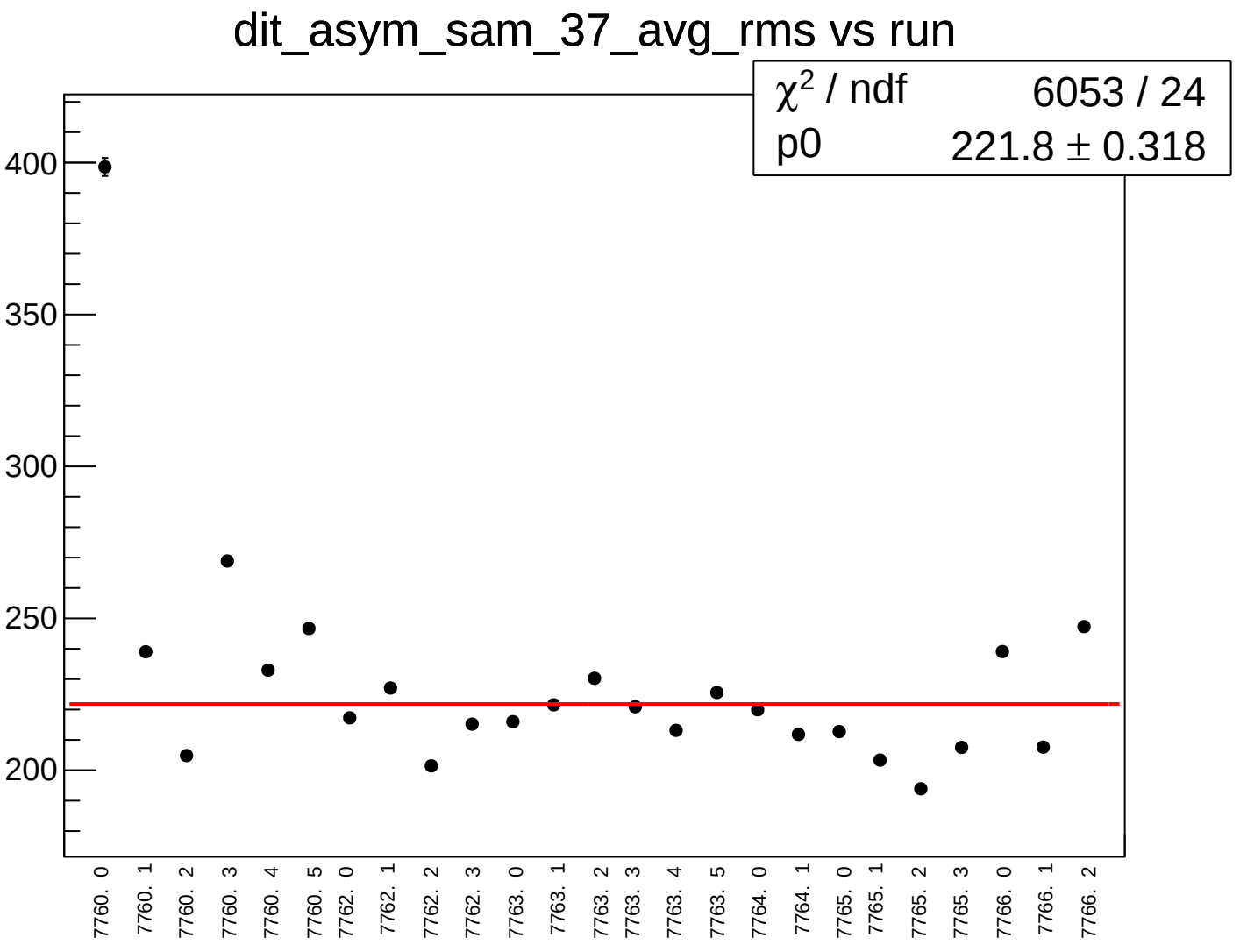

asym_sam_26_avg_mean vs run
χ² / ndf 34.86 / 24
p0 7919 ± 3941
60000
40000
20000
0
−20000
−40000
−60000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 282
Std Dev 275.3
1.5
1
0.5
0
−0.5
−1
−1.5
−2

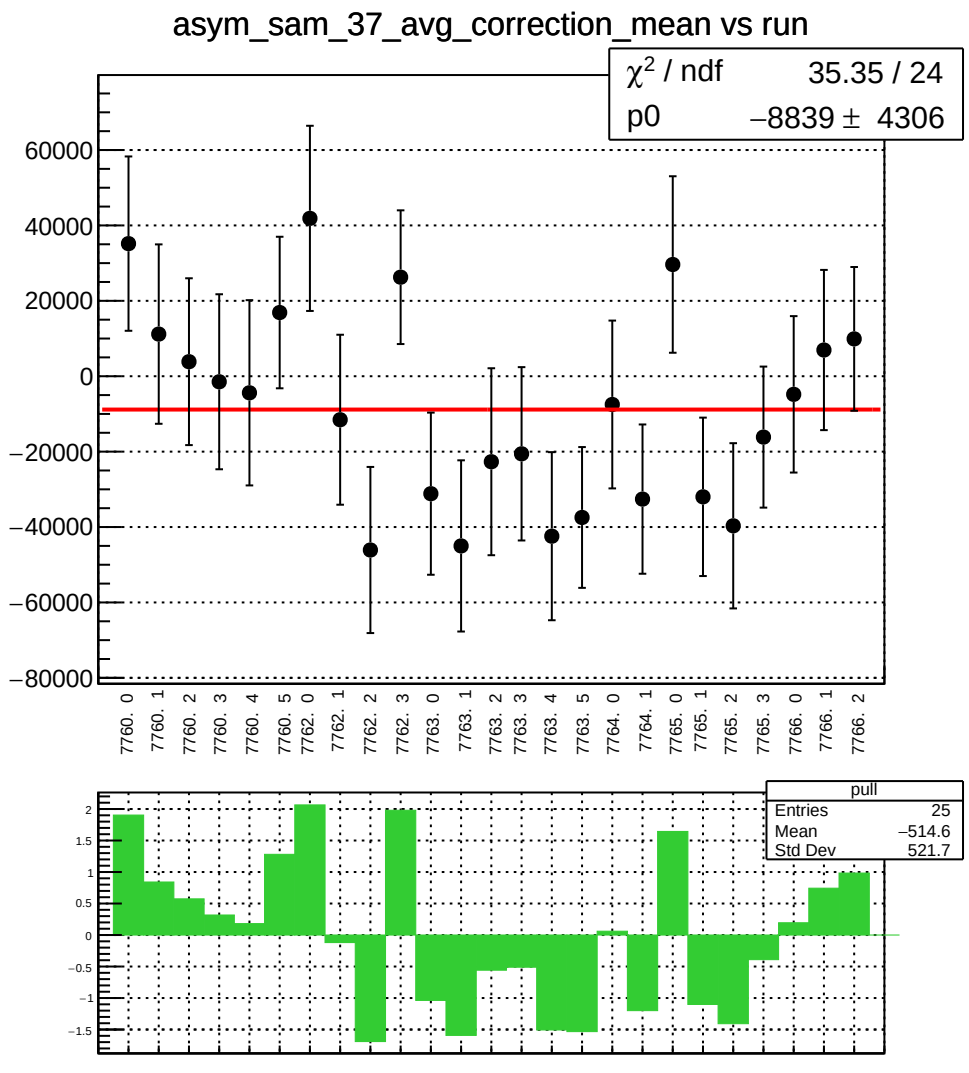

pull1D
Entries 25
Mean 0.008439
Std Dev 1.181
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

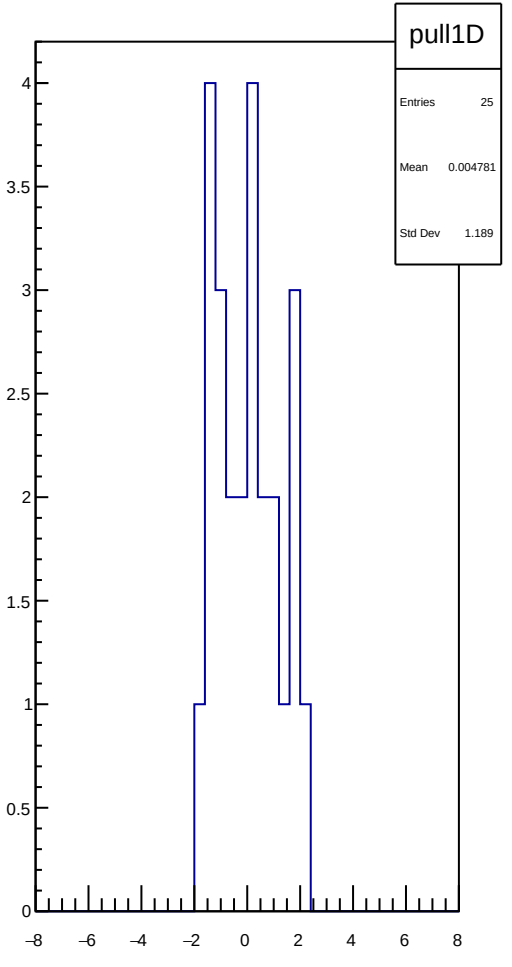

asym_sam_26_avg_rms vs run
χ² / ndf 1753 / 24
p0 1952 ± 2.787
2200
2100
2000
1900
1800
1700
1600
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

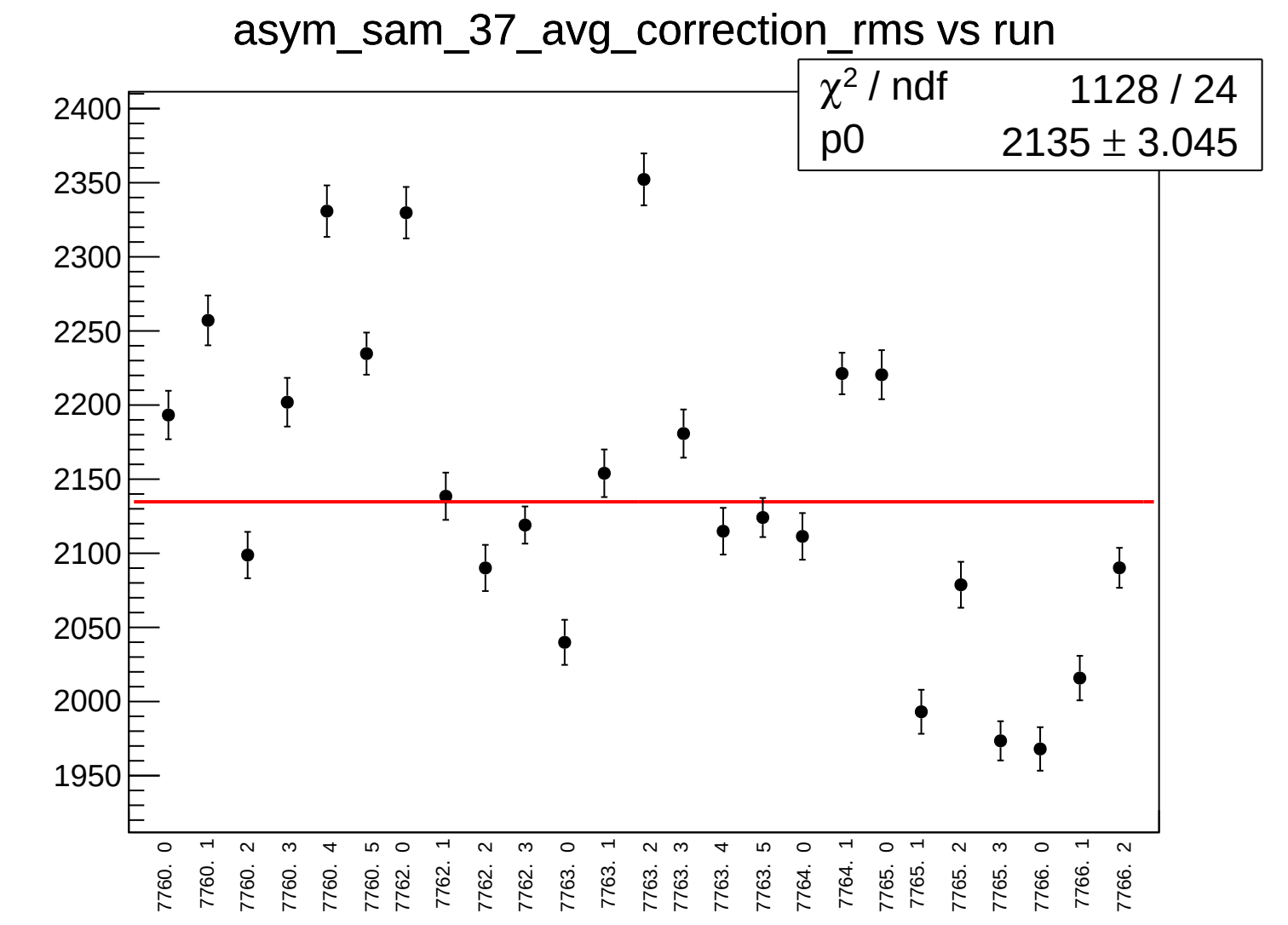

dit_asym_sam_37_avg_mean vs run
χ² / ndf 25.65 / 24
p0 105.1 ± 449.7
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −912.3
Std Dev 925.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

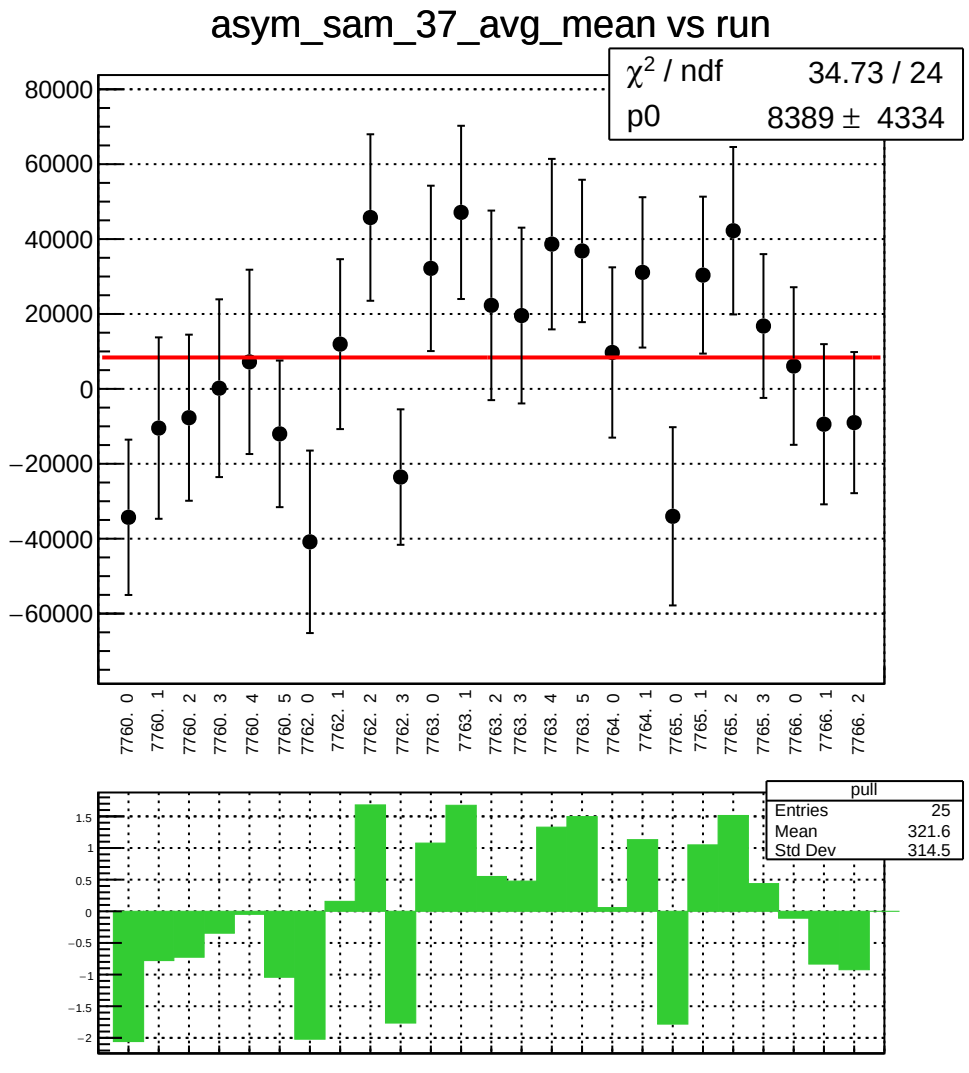

pull1D
Entries 25
Mean 0.001282
Std Dev 1.013
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

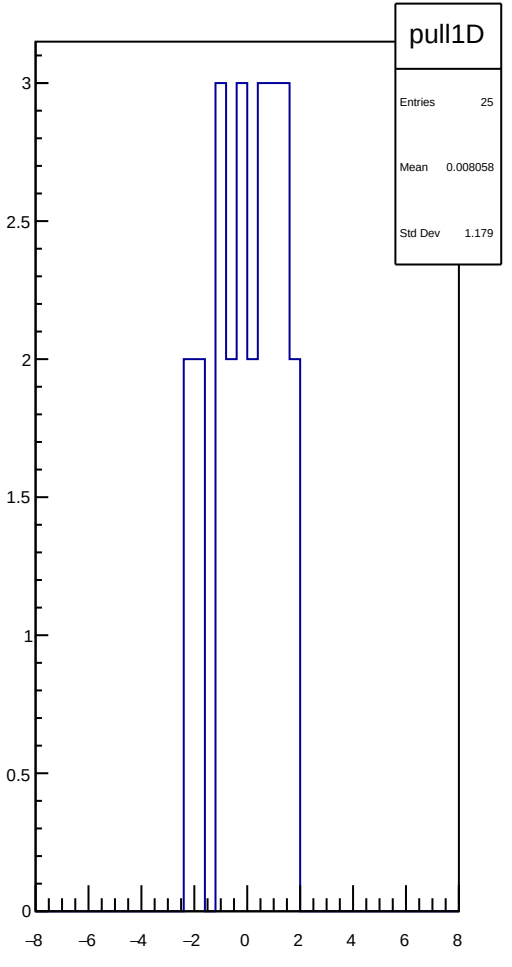

dit_asym_sam_37_avg_rms vs run
χ² / ndf 6053 / 24
p0 221.8 ± 0.318
400
350
300
250
200
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

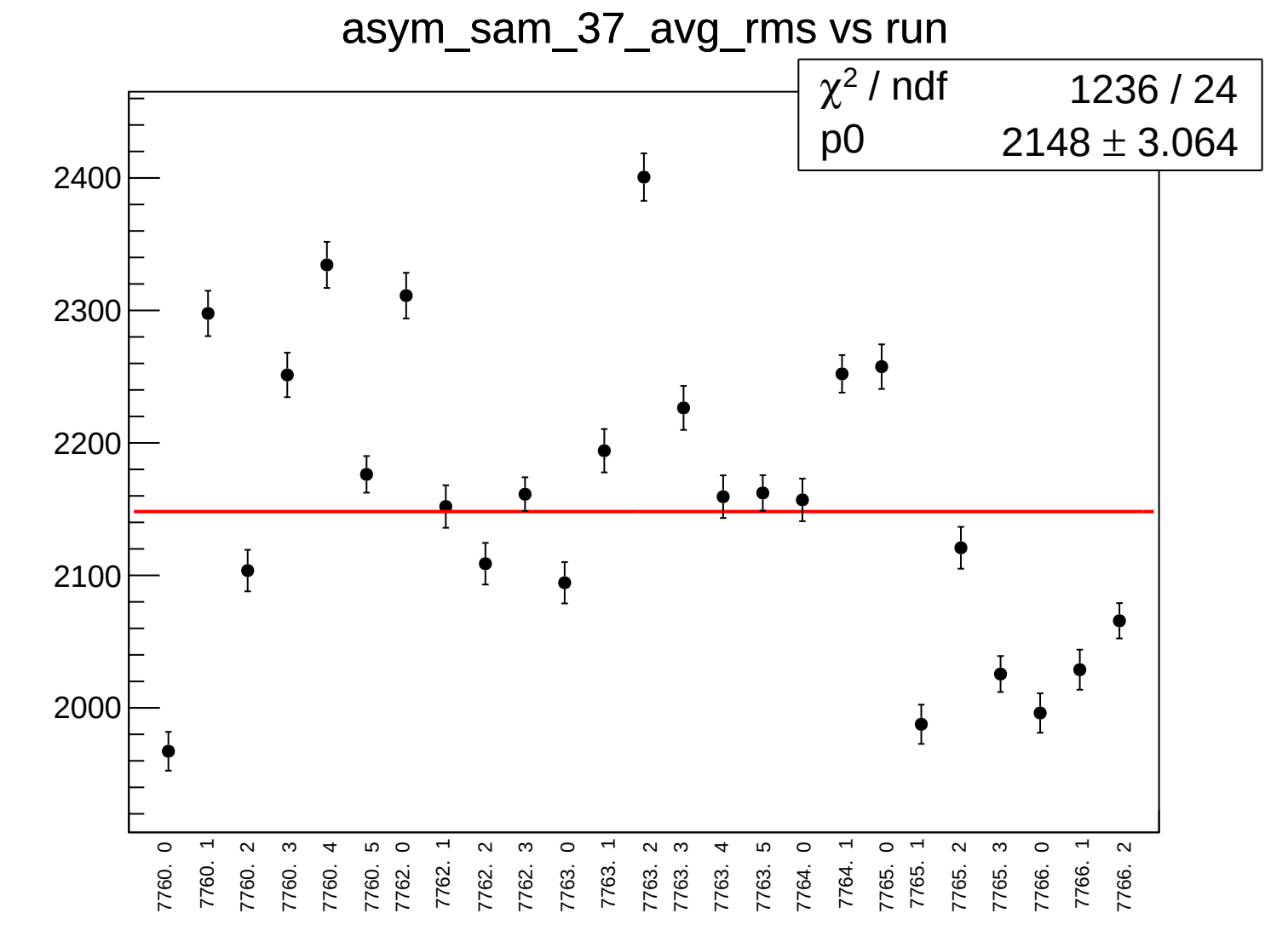

asym_sam_37_avg_correction_mean vs run
χ² / ndf 35.35 / 24
p0 −8839 ± 4306
60000
40000
20000
0
−20000
−40000
−60000
−80000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −514.6
Std Dev 521.7
2
1.5
1
0.5
0
−0.5
−1
−1.5

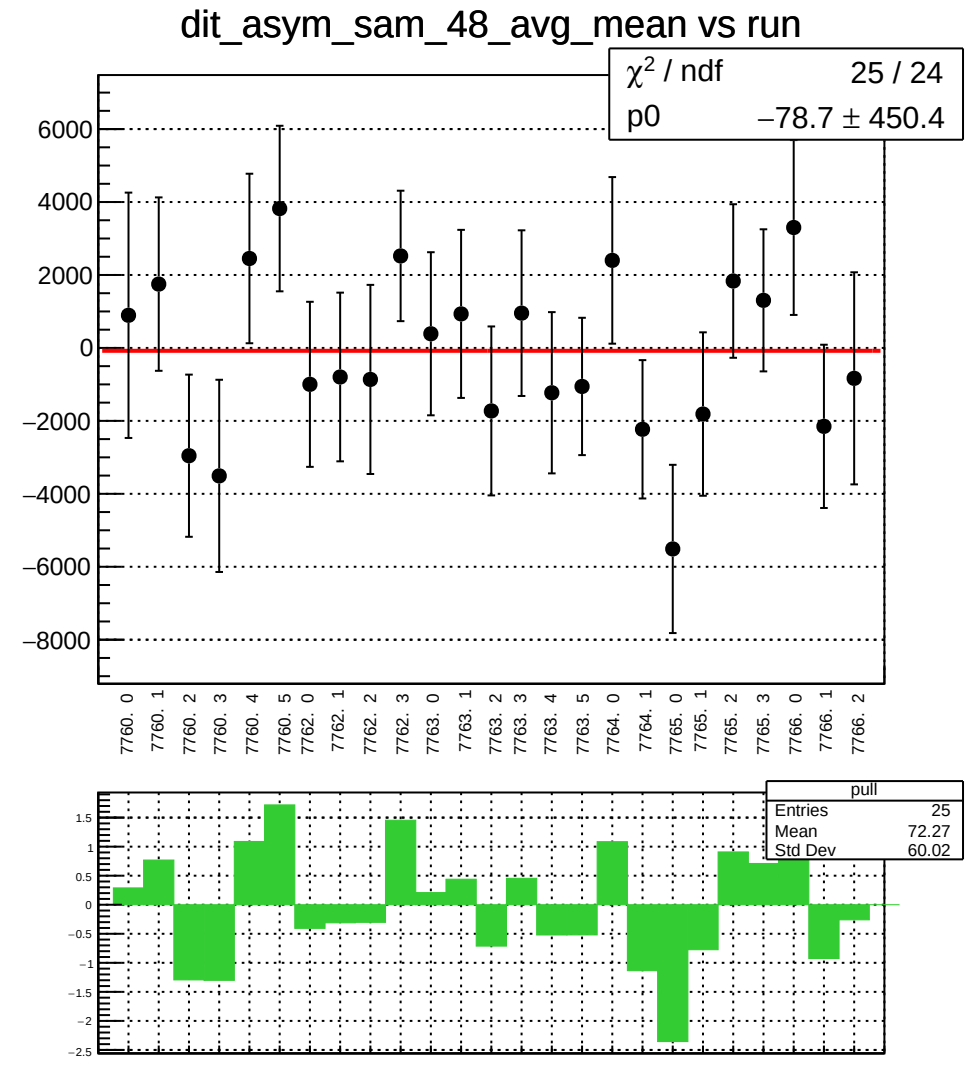

pull1D
Entries 25
Mean 0.004781
Std Dev 1.189
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

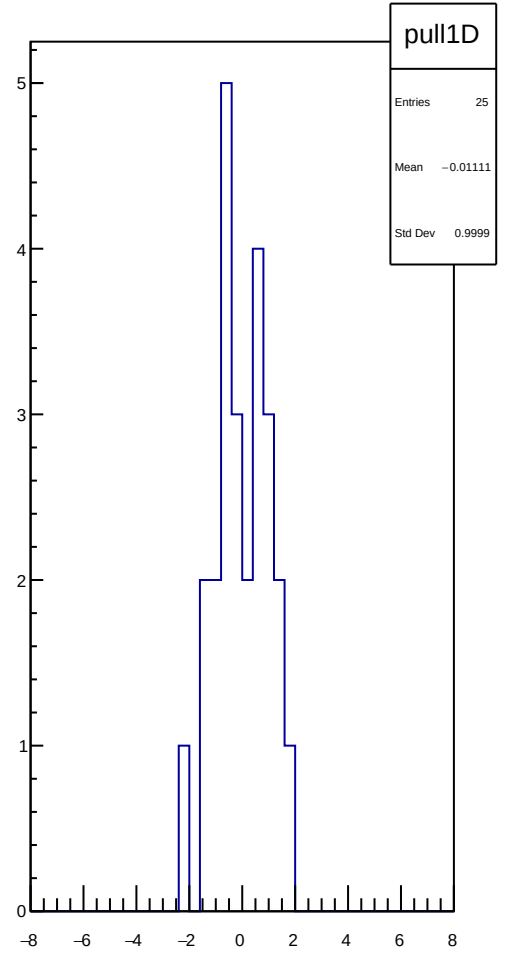

asym_sam_37_avg_correction_rms vs run
χ² / ndf 1128 / 24
p0 2135 ± 3.045
2400
2350
2300
2250
2200
2150
2100
2050
2000
1950
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

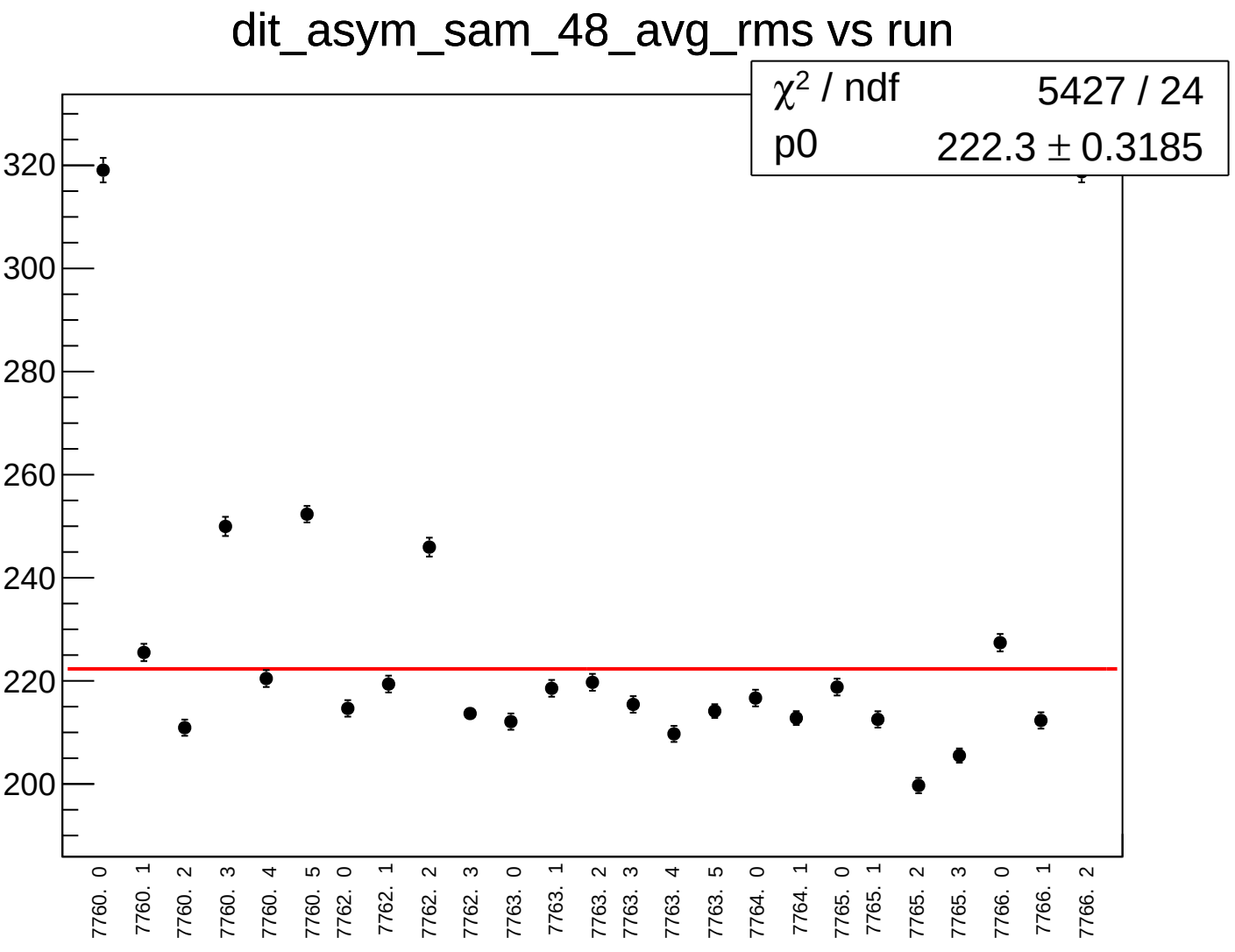

asym_sam_37_avg_mean vs run
χ² / ndf 34.73 / 24
p0 8389 ± 4334
80000
60000
40000
20000
0
−20000
−40000
−60000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 321.6
Std Dev 314.5
1.5
1
0.5
0
−0.5
−1
−1.5
−2

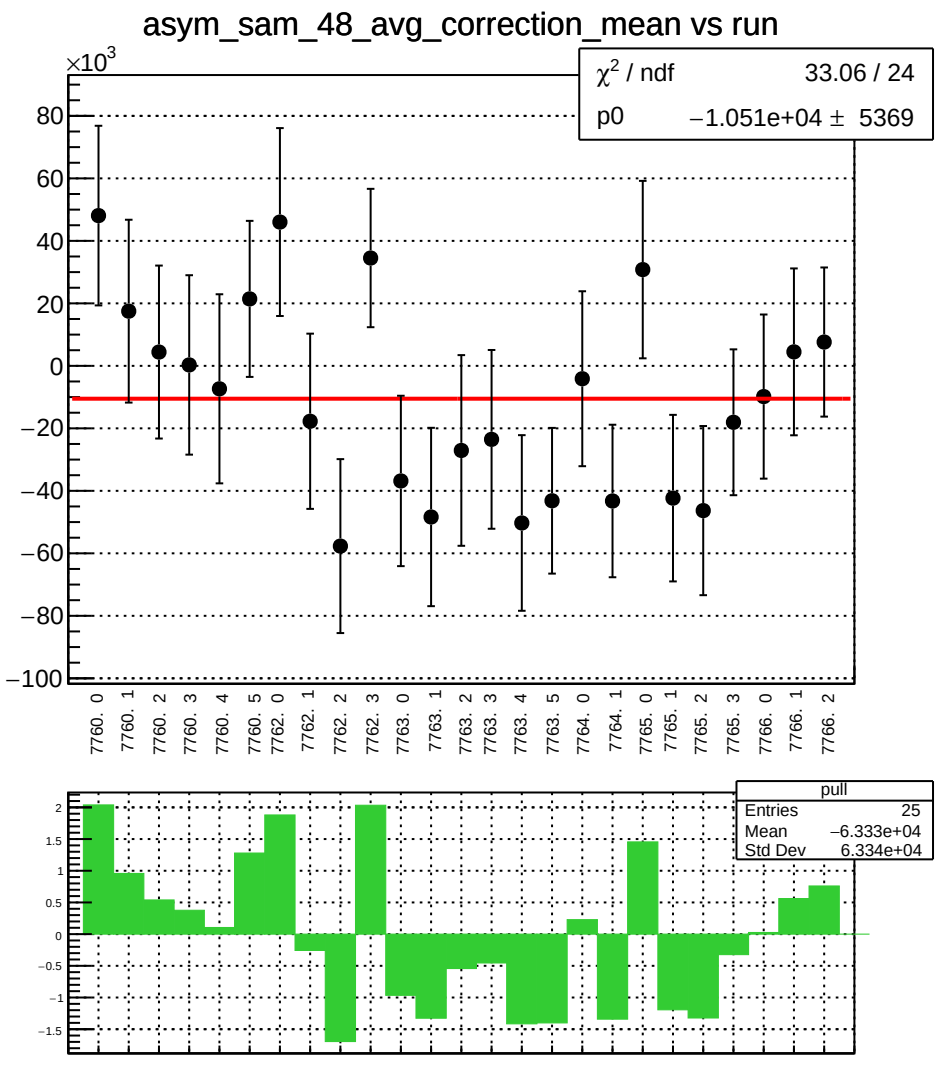

pull1D
Entries 25
Mean 0.008058
Std Dev 1.179
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

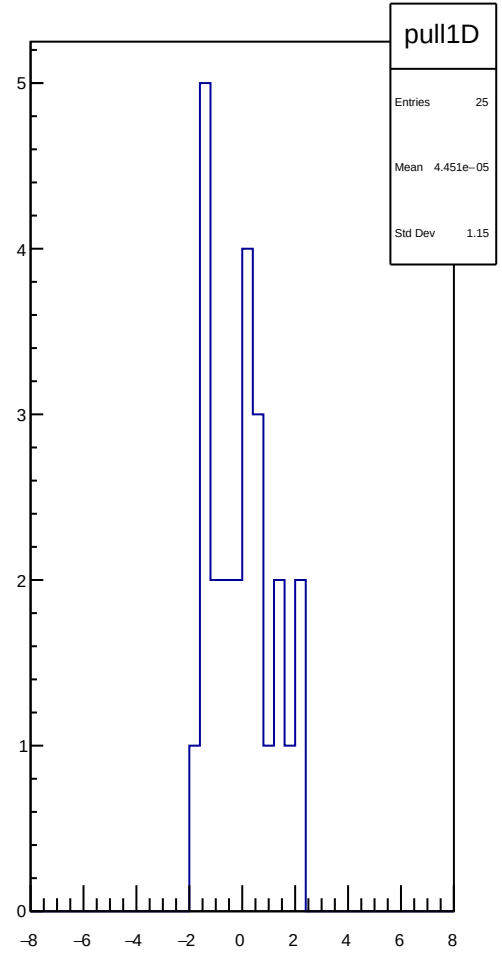

asym_sam_37_avg_rms vs run
χ² / ndf 1236 / 24
p0 2148 ± 3.064
2400
2300
2200
2100
2000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

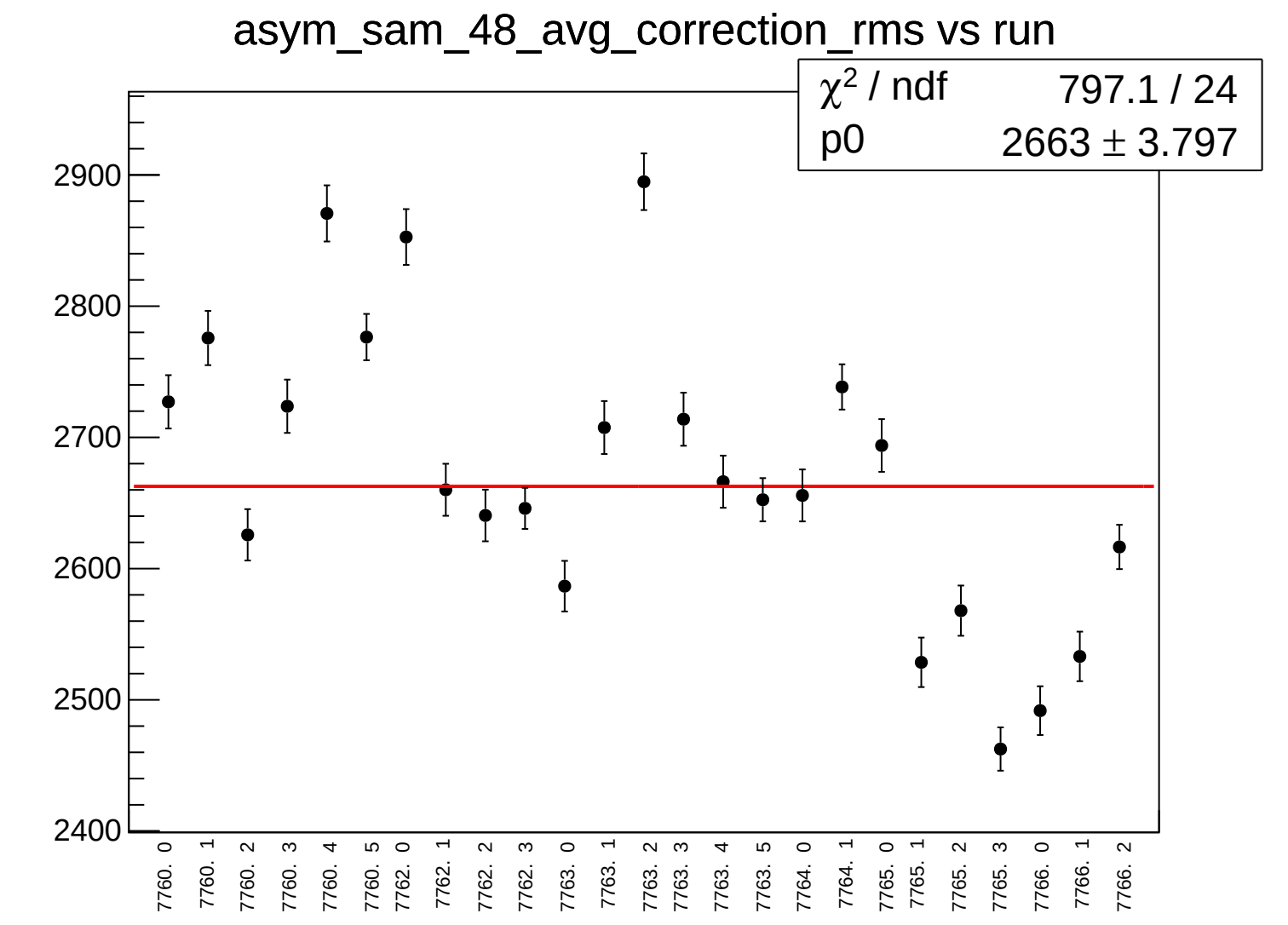

dit_asym_sam_48_avg_mean vs run
χ² / ndf 25 / 24
p0 −78.7 ± 450.4
6000
4000
2000
0
−2000
−4000
−6000
−8000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 72.27
Std Dev 60.02
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

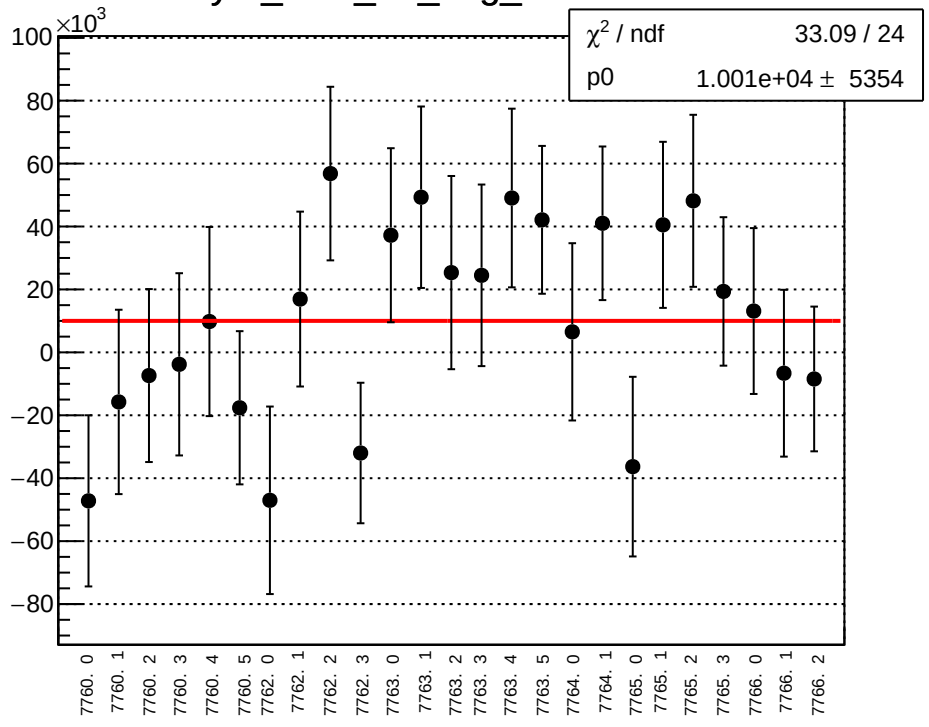

pull1D
Entries 25
Mean −0.01111
Std Dev 0.9999
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

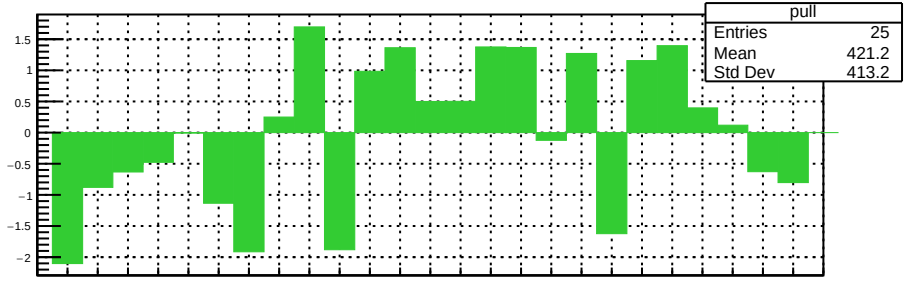

dit_asym_sam_48_avg_rms vs run
χ² / ndf 5427 / 24
p0 222.3 ± 0.3185
320
300
280
260
240
220
200
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

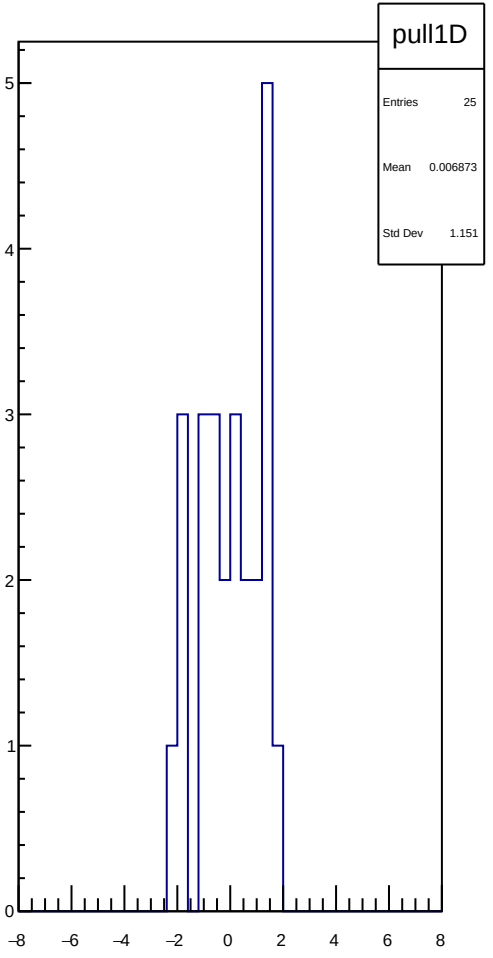

asym_sam_48_avg_correction_mean vs run
×10^3
χ² / ndf 33.06 / 24
p0 −1.051e+04 ± 5369
80
60
40
20
0
−20
−40
−60
−80
−100
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −6.333e+04
Std Dev 6.334e+04
2
1.5
1
0.5
0
−0.5
−1
−1.5

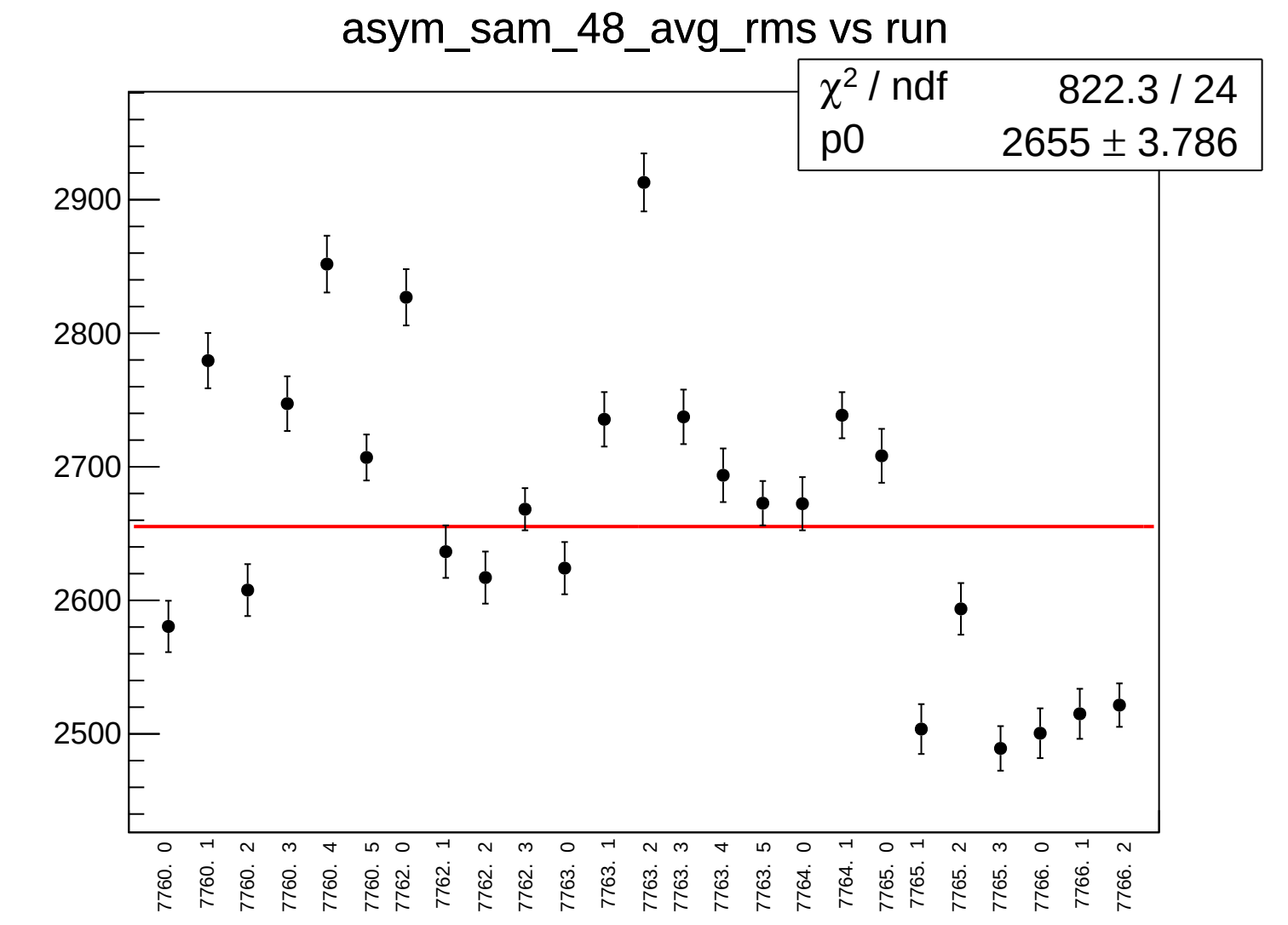

pull1D
Entries 25
Mean 4.451e−05
Std Dev 1.15
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

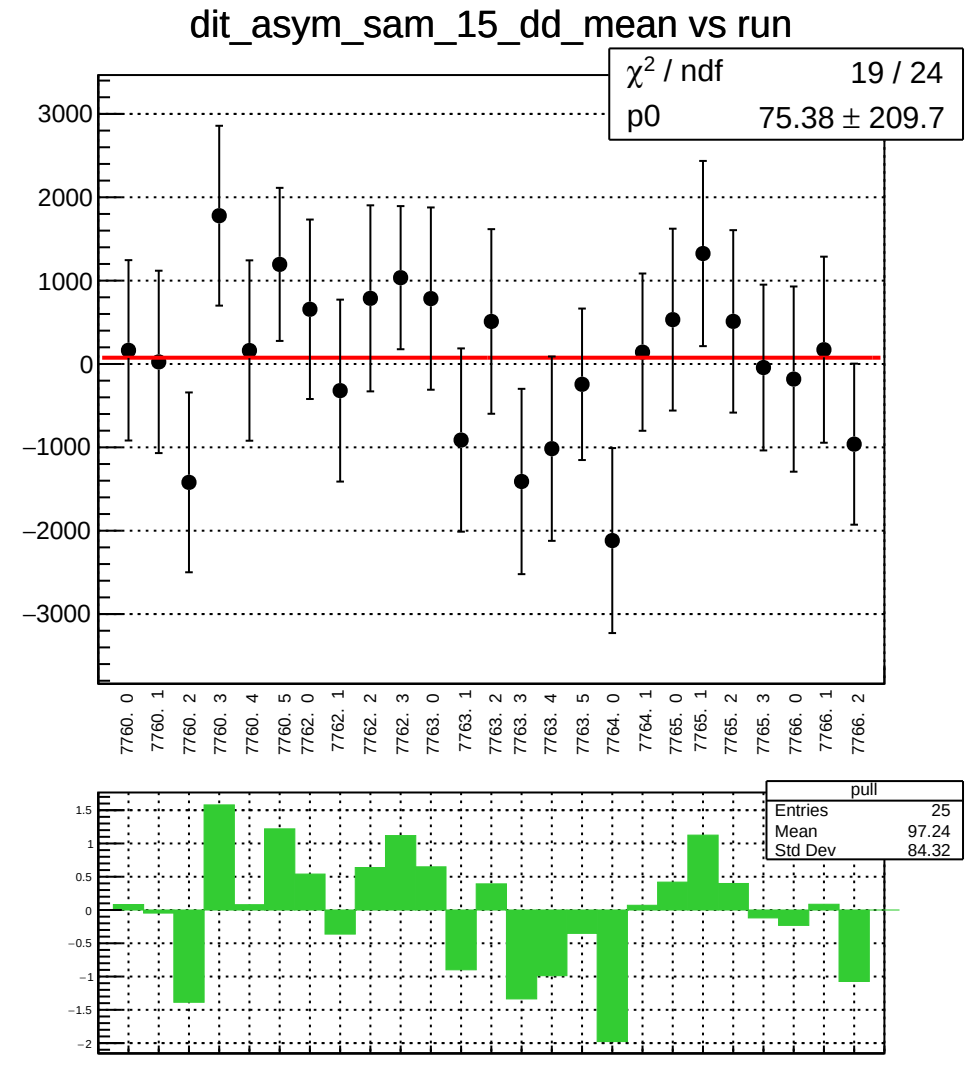

asym_sam_48_avg_correction_rms vs run
χ² / ndf 797.1 / 24
p0 2663 ± 3.797
2900
2800
2700
2600
2500
2400
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

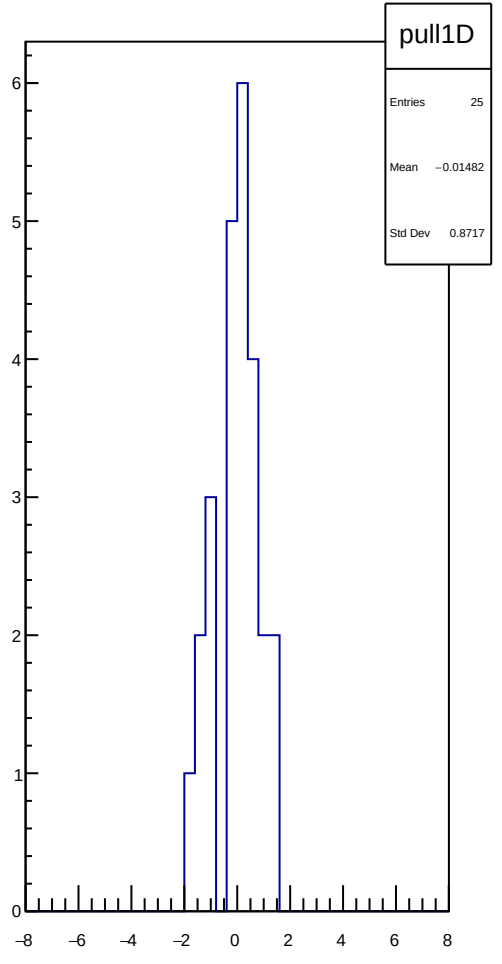

asym_sam_48_avg_mean vs run
×10^3
χ² / ndf 33.09 / 24
p0 1.001e+04 ± 5354
100
80
60
40
20
0
−20
−40
−60
−80
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

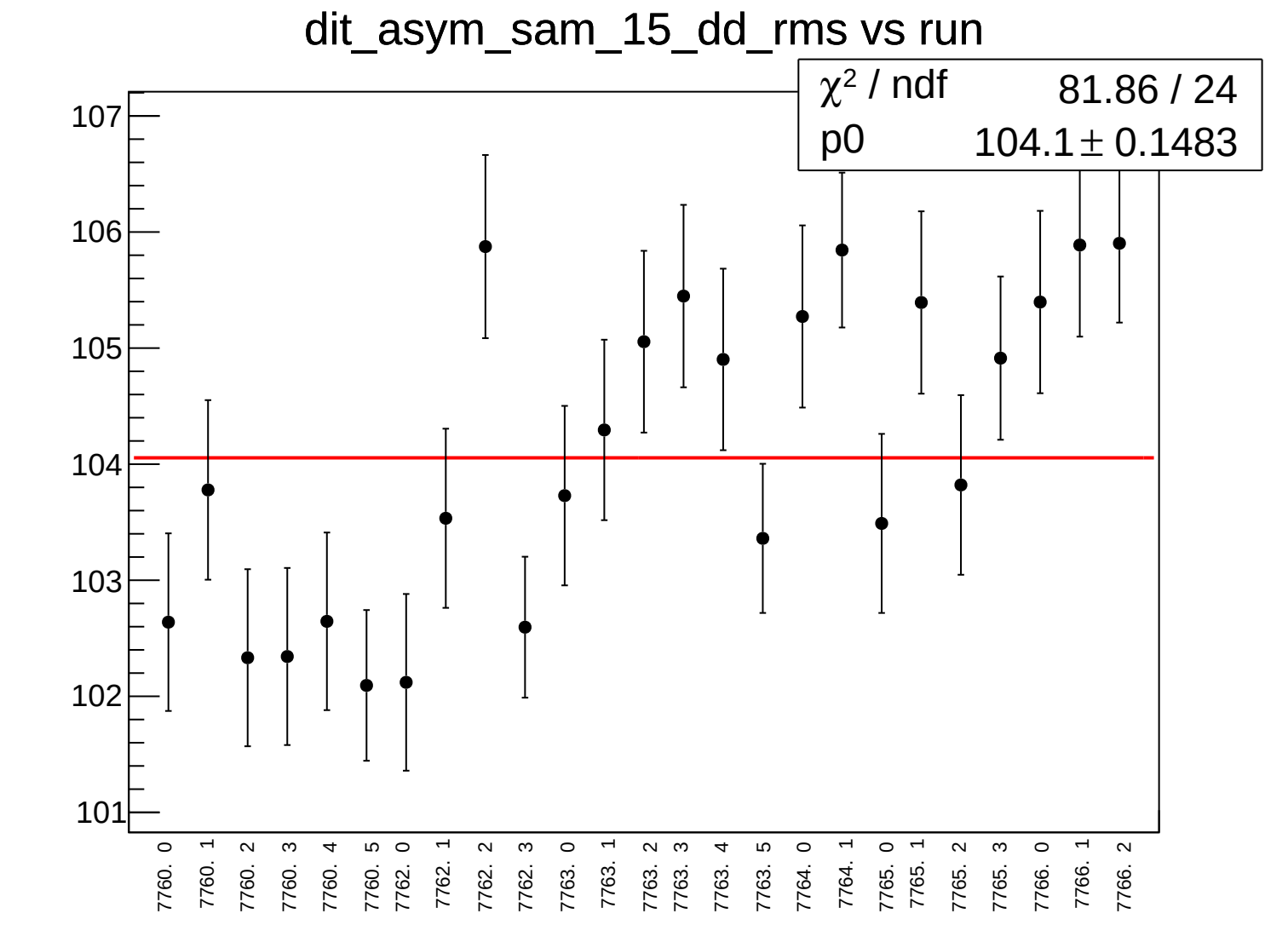

pull
Entries 25
Mean 421.2
Std Dev 413.2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

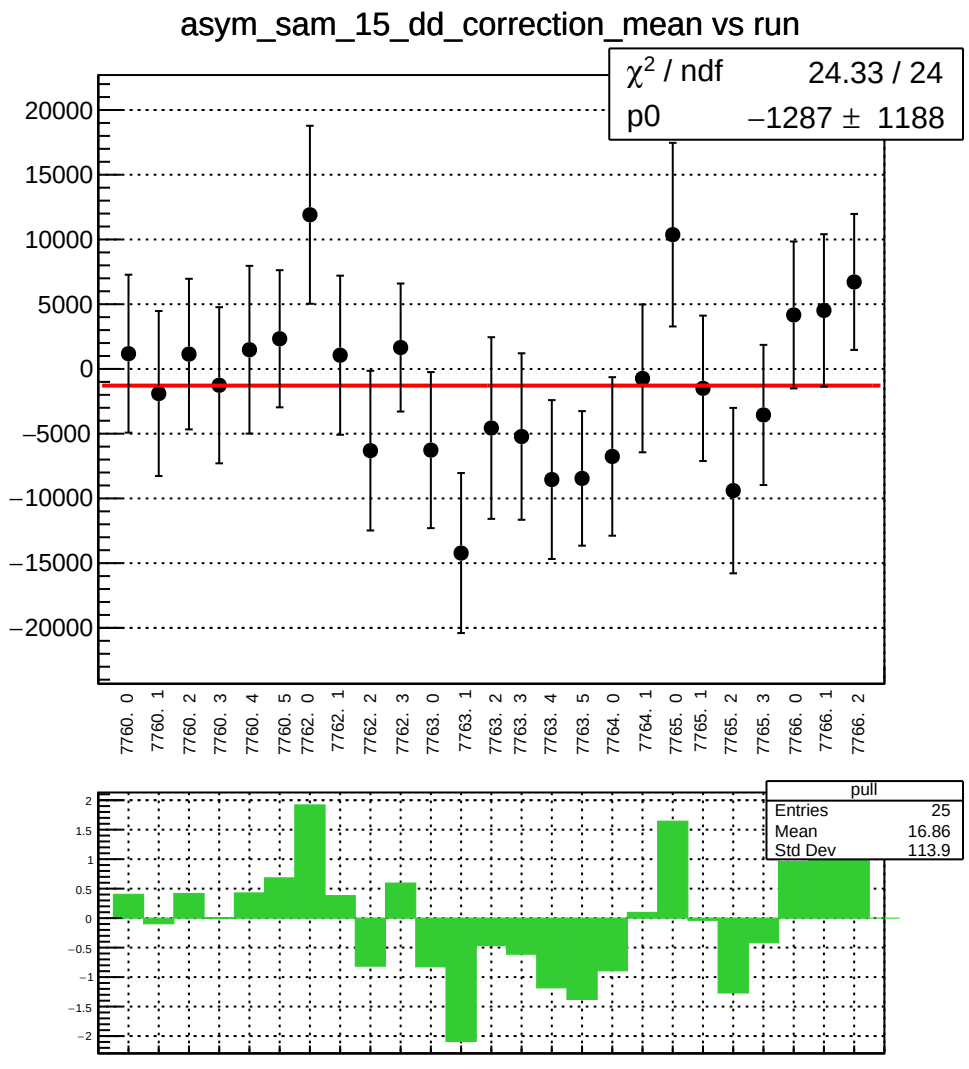

pull1D
Entries 25
Mean 0.006873
Std Dev 1.151
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

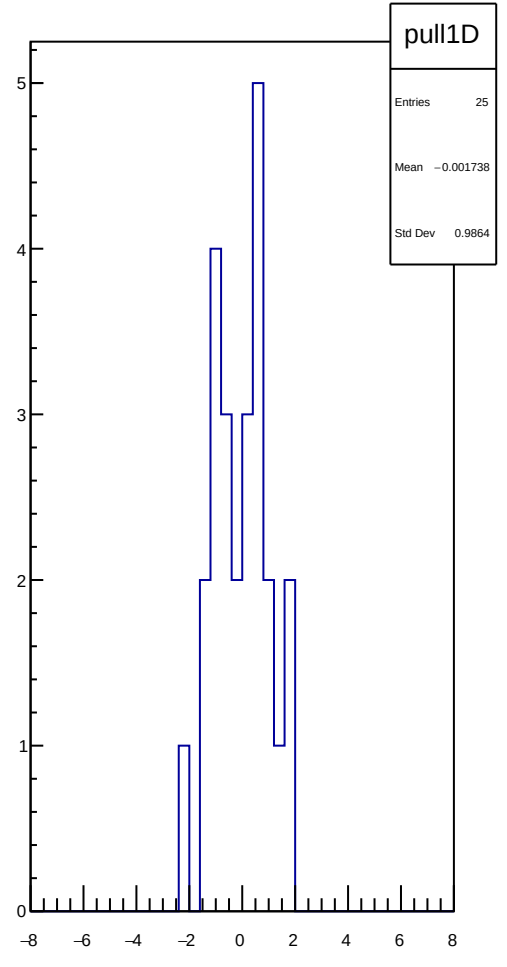

asym_sam_48_avg_rms vs run
χ² / ndf 822.3 / 24
p0 2655 ± 3.786
2900
2800
2700
2600
2500
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

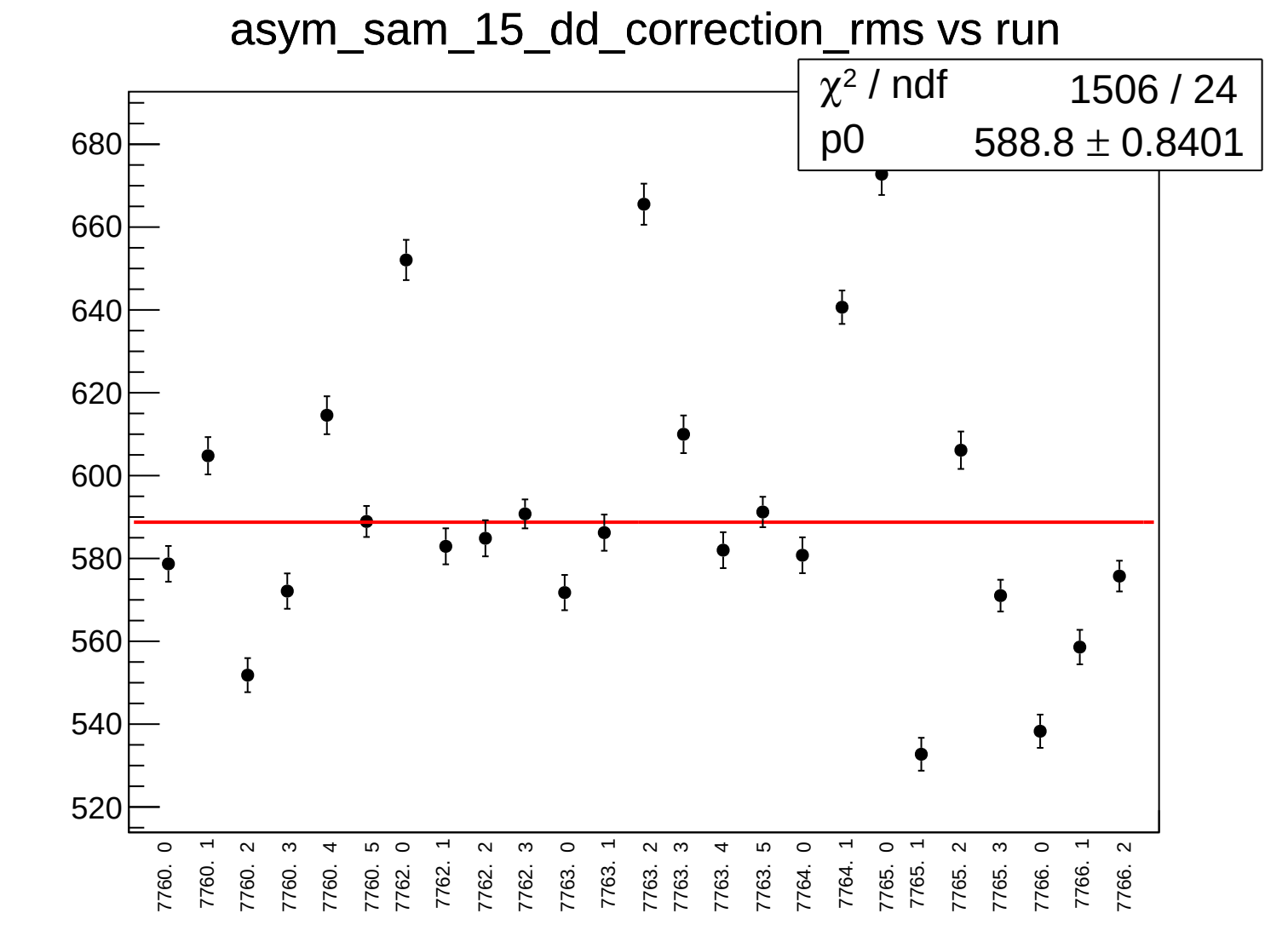

dit_asym_sam_15_dd_mean vs run
χ² / ndf 19 / 24
p0 75.38 ± 209.7
3000
2000
1000
0
−1000
−2000
−3000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 97.24
Std Dev 84.32
1.5
1
0.5
0
−0.5
−1
−1.5
−2

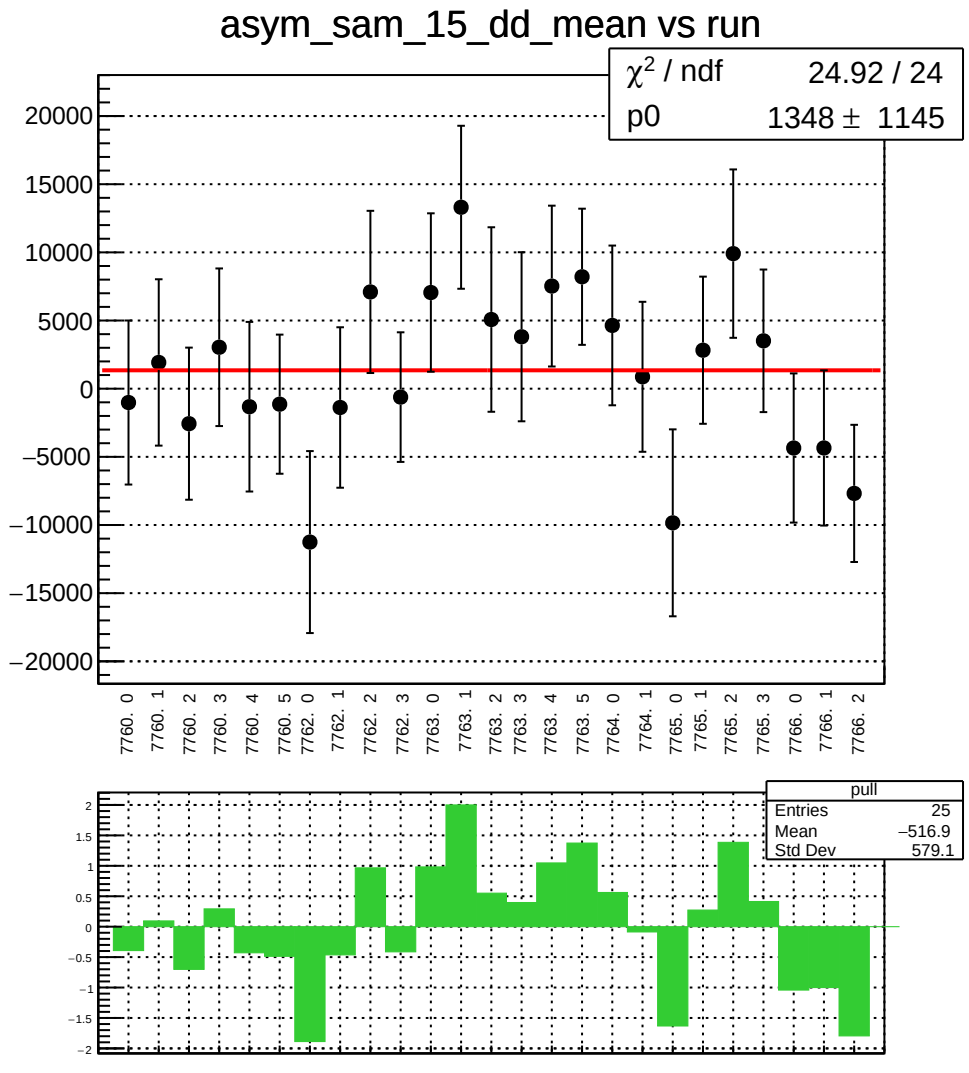

pull1D
Entries 25
Mean −0.01482
Std Dev 0.8717
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

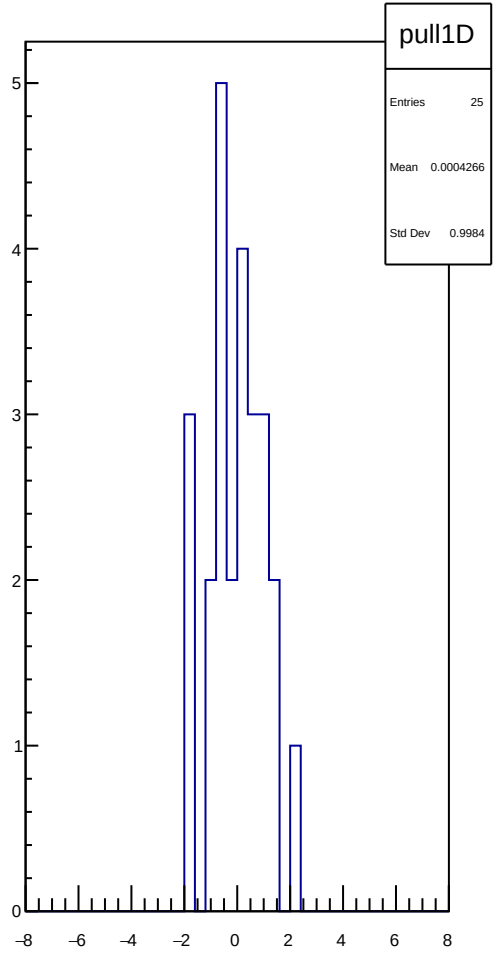

dit_asym_sam_15_dd_rms vs run
χ² / ndf 81.86 / 24
p0 104.1 ± 0.1483
107
106
105
104
103
102
101
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

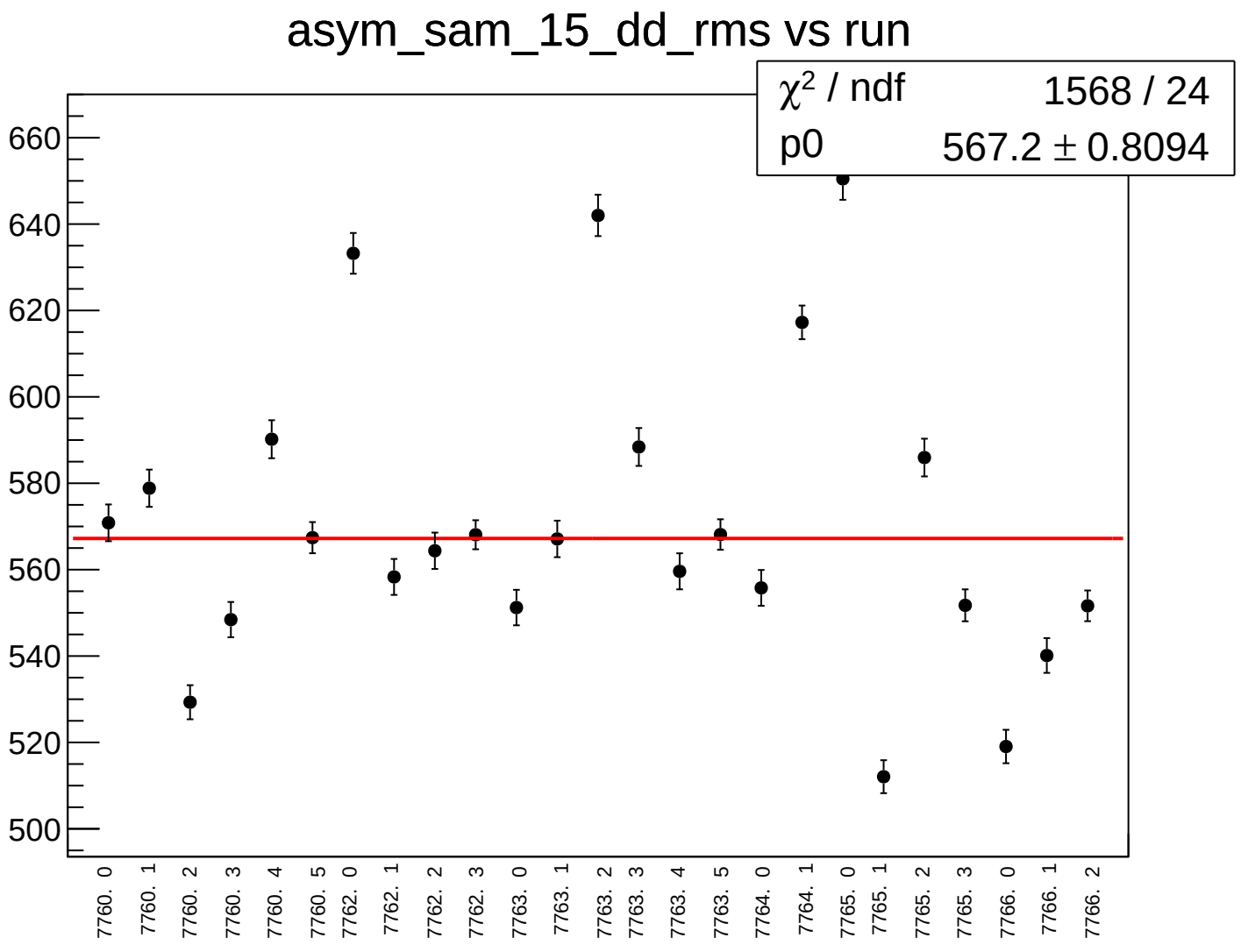

asym_sam_15_dd_correction_mean vs run
χ² / ndf 24.33 / 24
p0 −1287 ± 1188
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 16.86
Std Dev 113.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

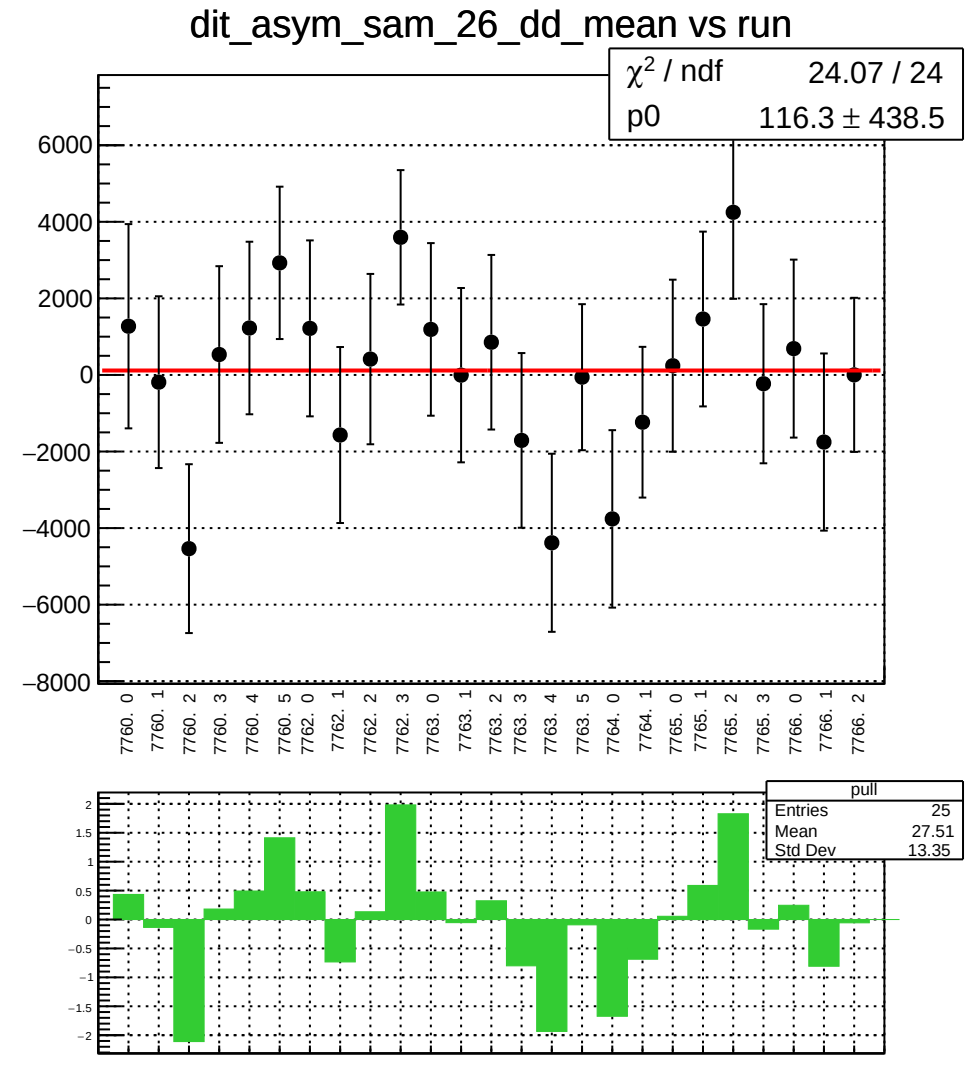

pull1D
Entries 25
Mean −0.001738
Std Dev 0.9864
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

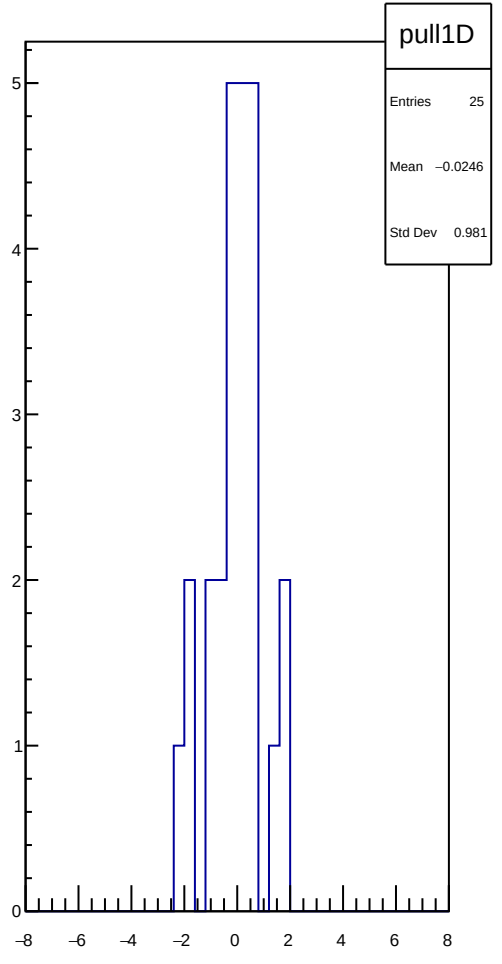

asym_sam_15_dd_correction_rms vs run
χ² / ndf 1506 / 24
p0 588.8 ± 0.8401
680
660
640
620
600
580
560
540
520
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

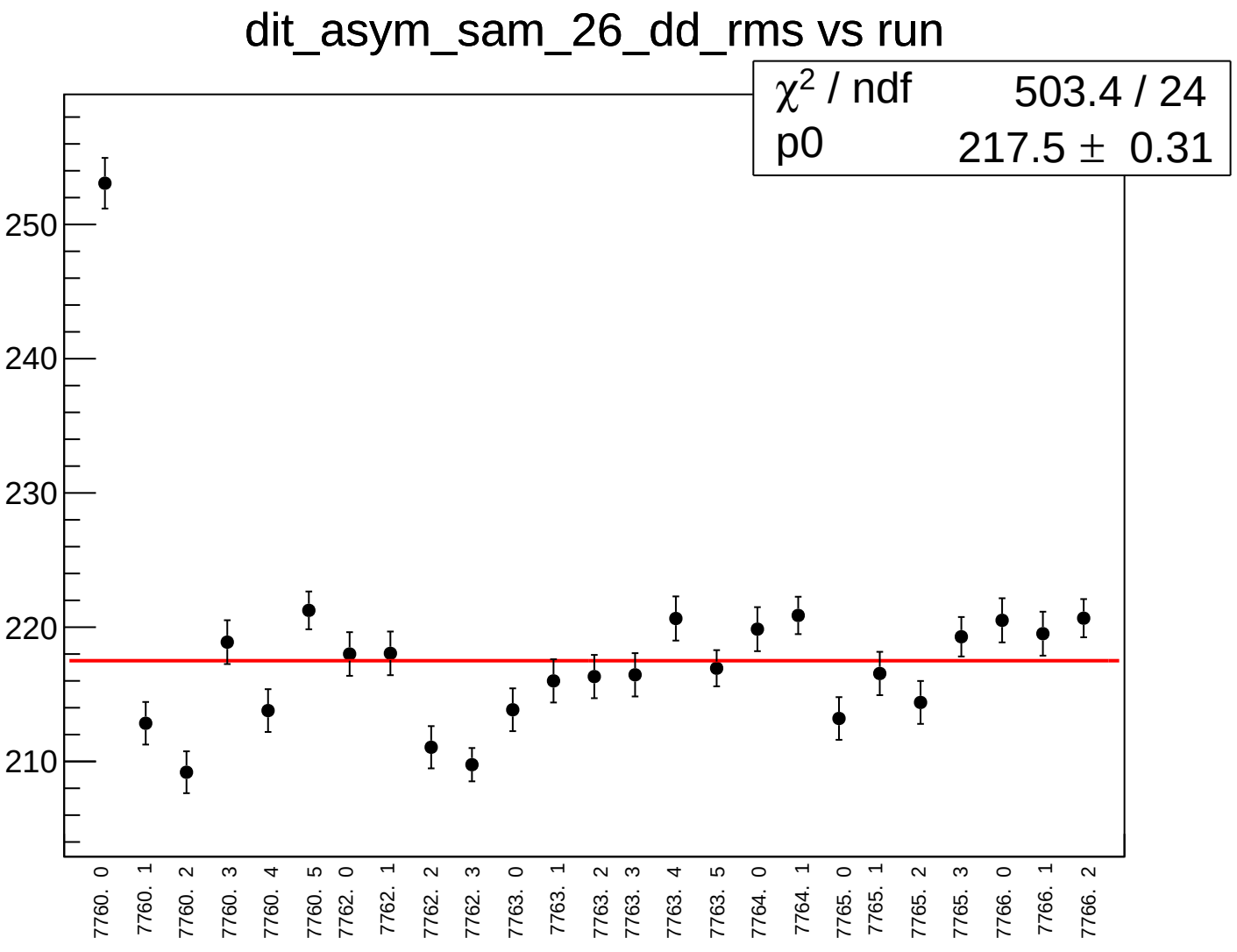

asym_sam_15_dd_mean vs run
χ² / ndf 24.92 / 24
p0 1348 ± 1145
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −516.9
Std Dev 579.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

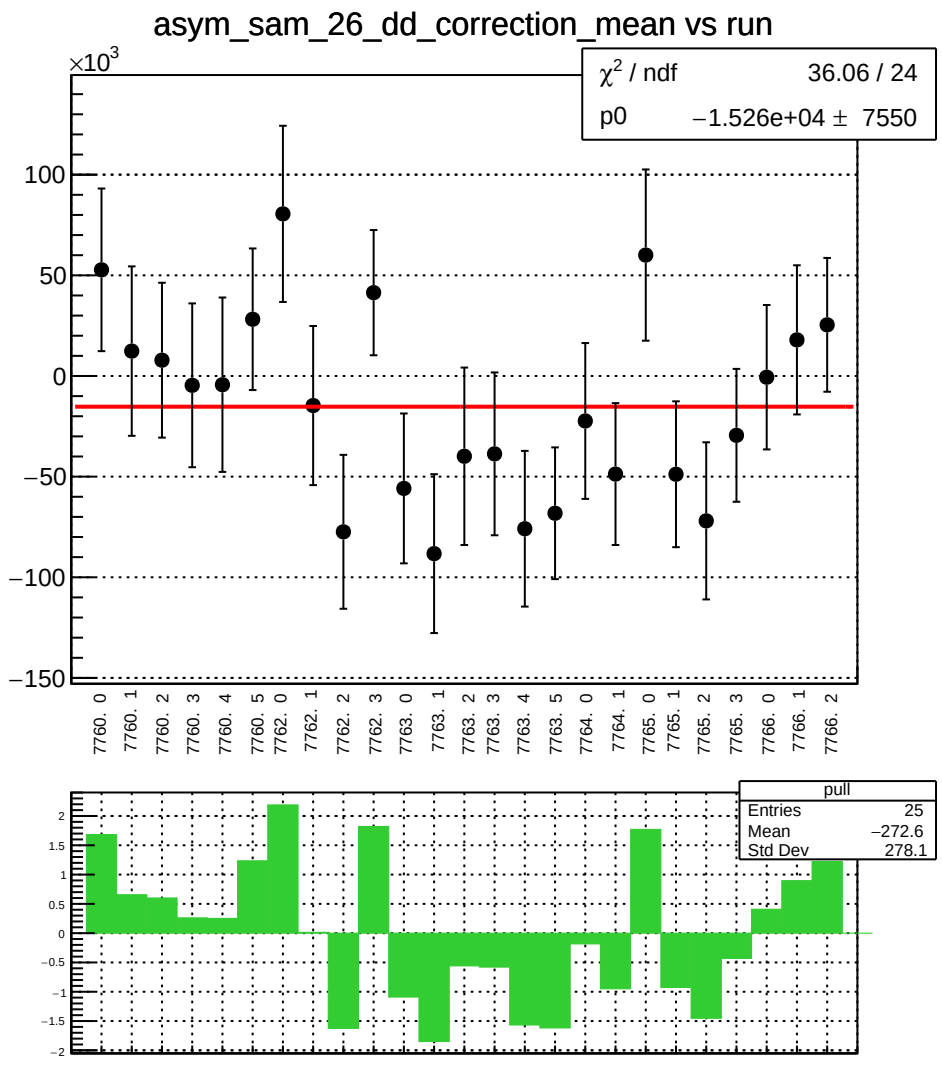

pull1D
Entries 25
Mean 0.0004266
Std Dev 0.9984
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

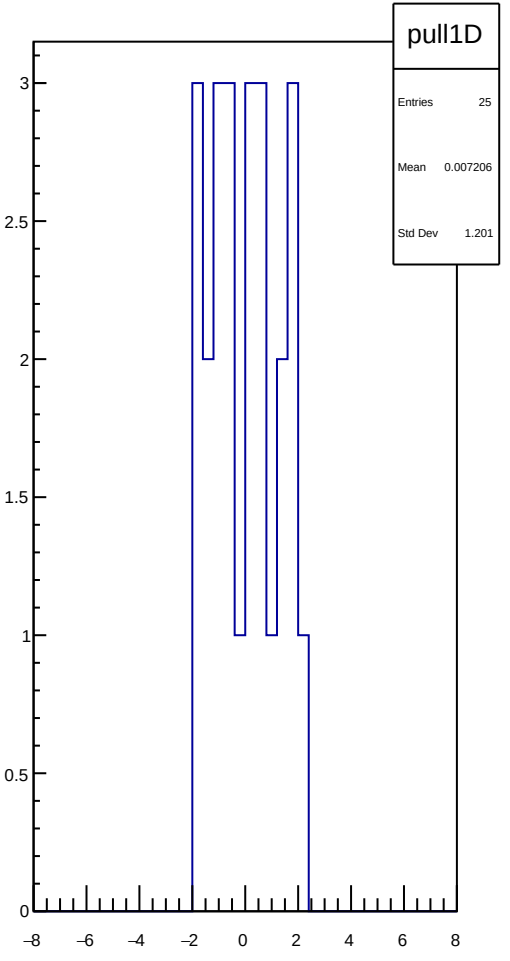

asym_sam_15_dd_rms vs run
χ² / ndf 1568 / 24
p0 567.2 ± 0.8094
660
640
620
600
580
560
540
520
500
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

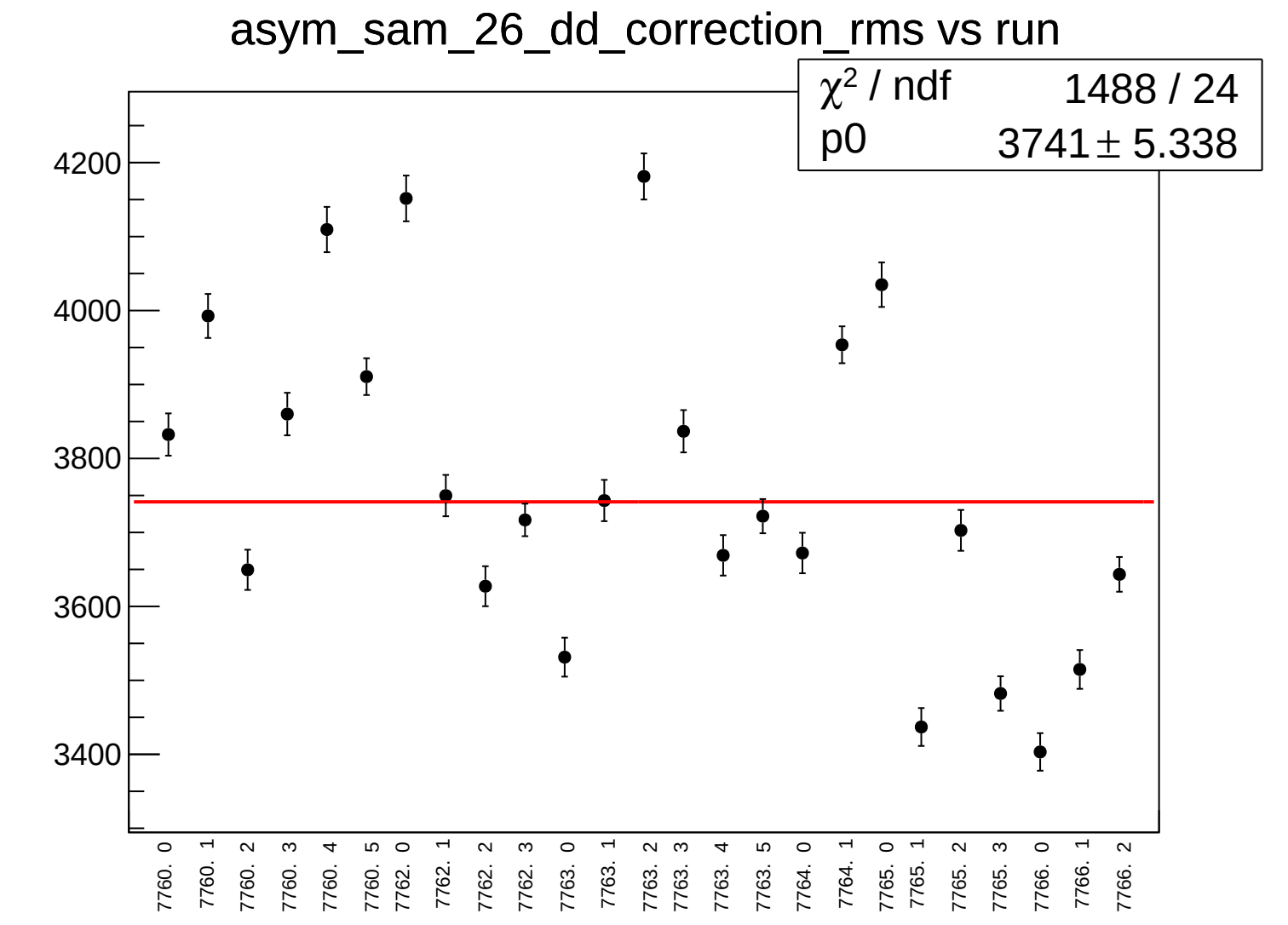

dit_asym_sam_26_dd_mean vs run
χ² / ndf 24.07 / 24
p0 116.3 ± 438.5
6000
4000
2000
0
−2000
−4000
−6000
−8000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 27.51
Std Dev 13.35
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

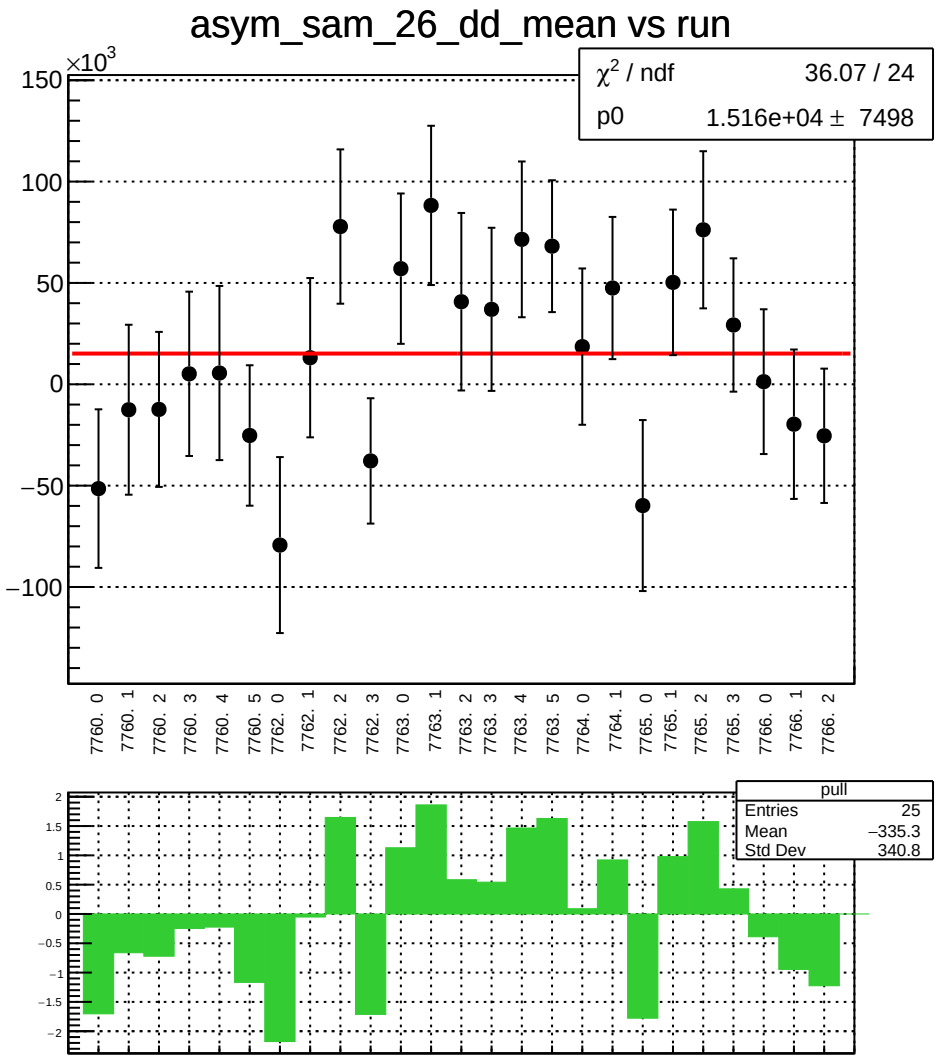

pull1D
Entries 25
Mean −0.0246
Std Dev 0.981
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

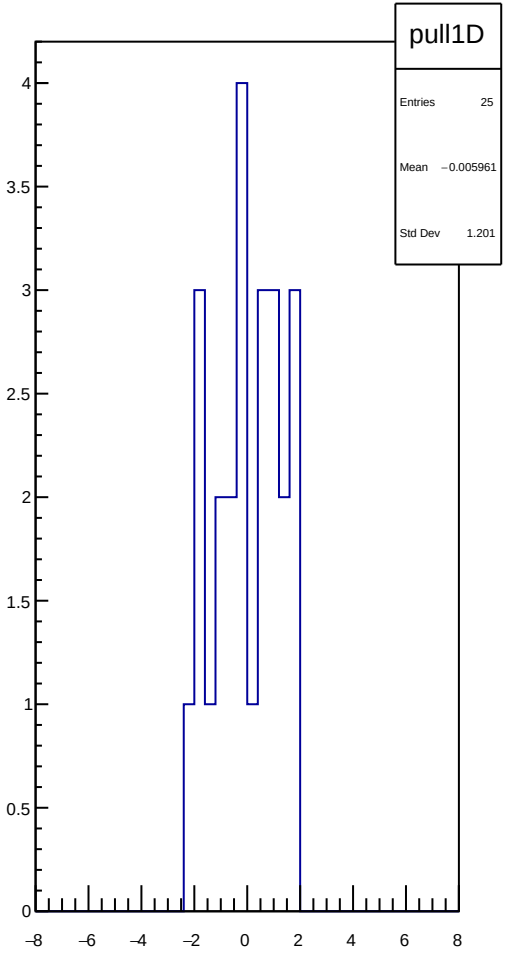

dit_asym_sam_26_dd_rms vs run
χ² / ndf 503.4 / 24
p0 217.5 ± 0.31
250
240
230
220
210
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

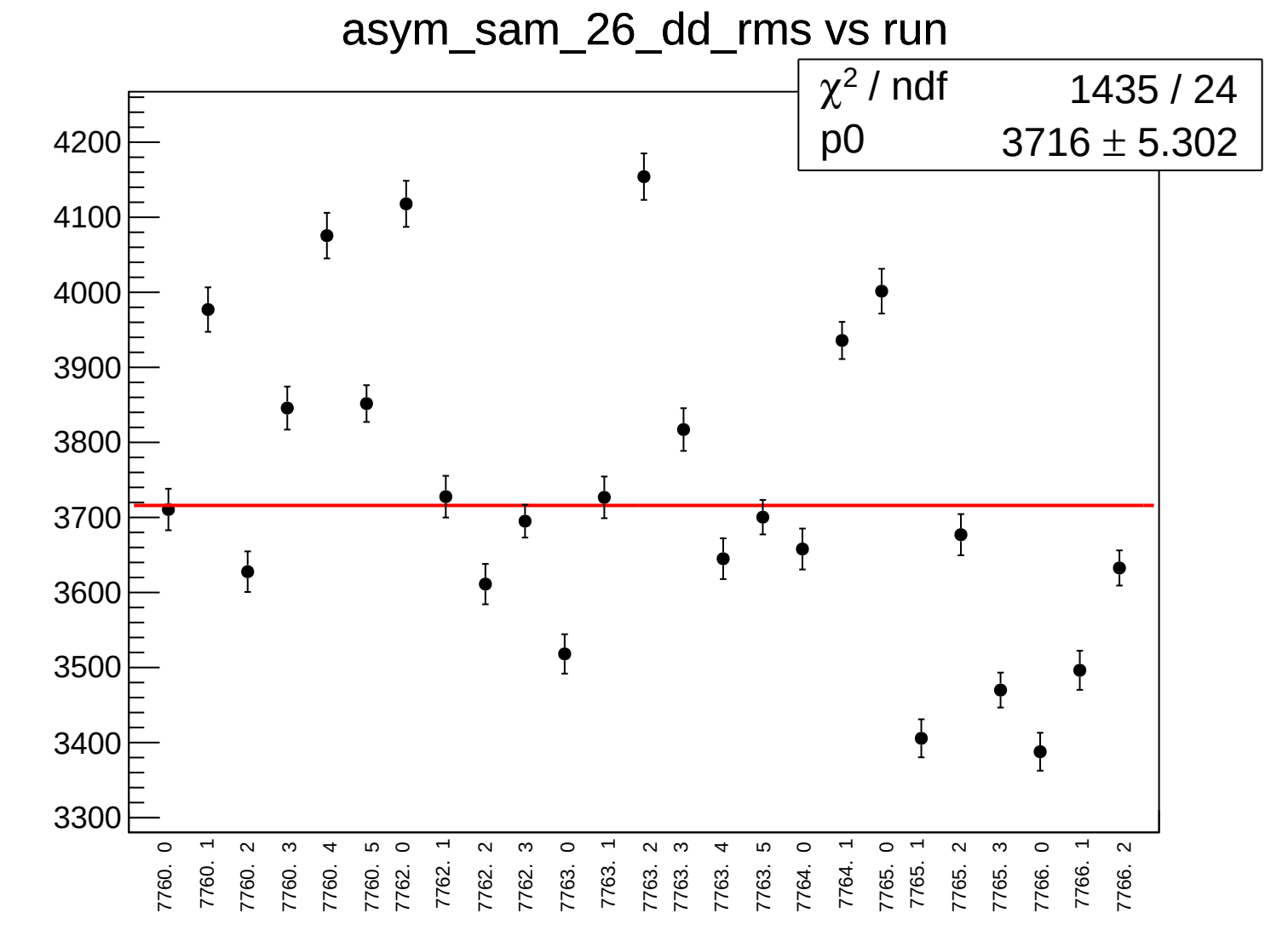

asym_sam_26_dd_correction_mean vs run
×10^3
χ² / ndf 36.06 / 24
p0 −1.526e+04 ± 7550
100
50
0
−50
−100
−150
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −272.6
Std Dev 278.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

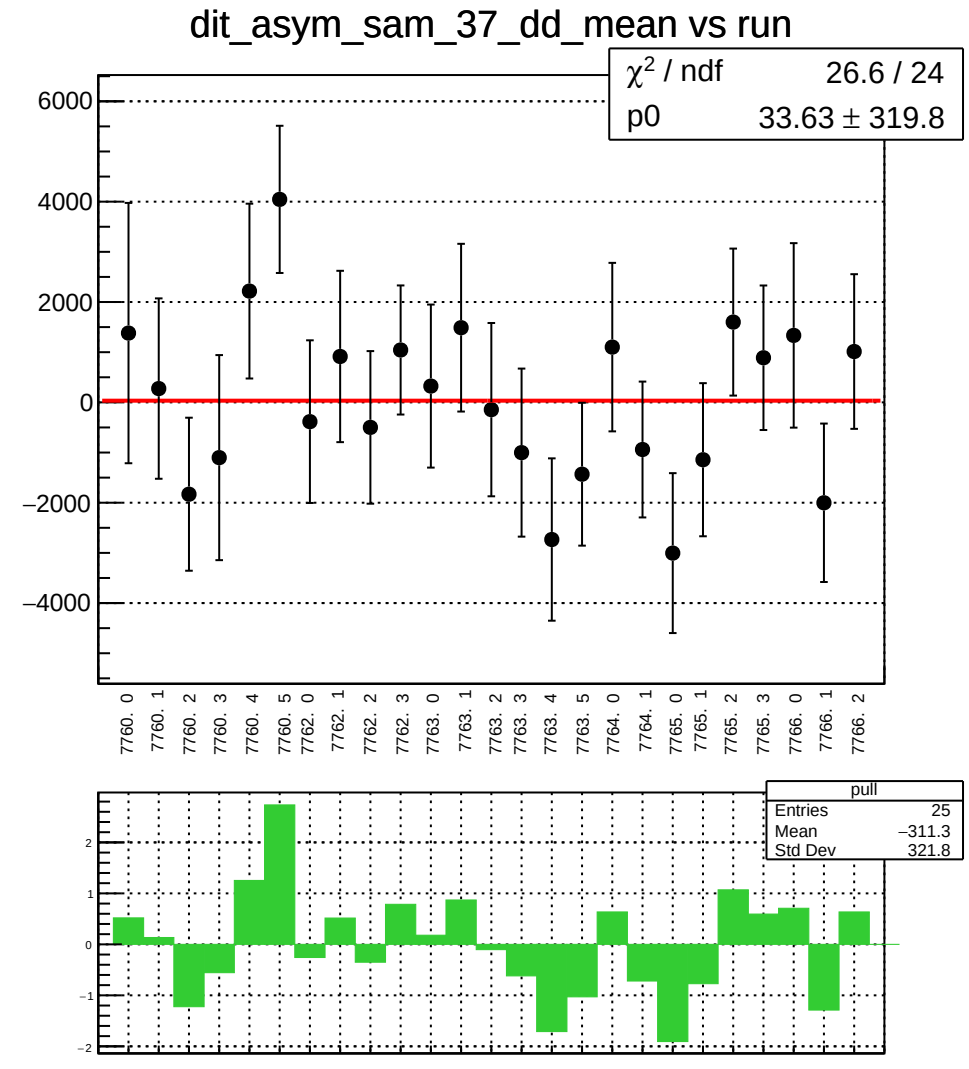

pull1D
Entries 25
Mean 0.007206
Std Dev 1.201
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

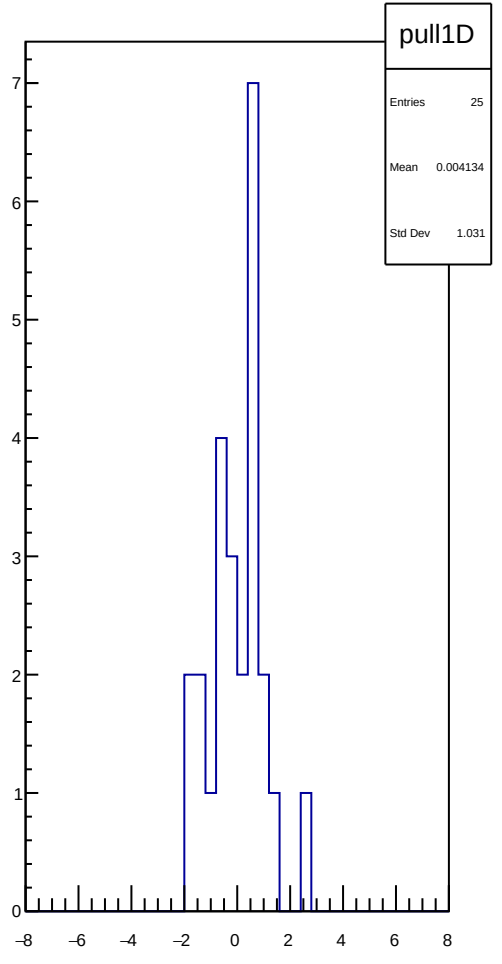

asym_sam_26_dd_correction_rms vs run
χ² / ndf 1488 / 24
p0 3741 ± 5.338
4200
4000
3800
3600
3400
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

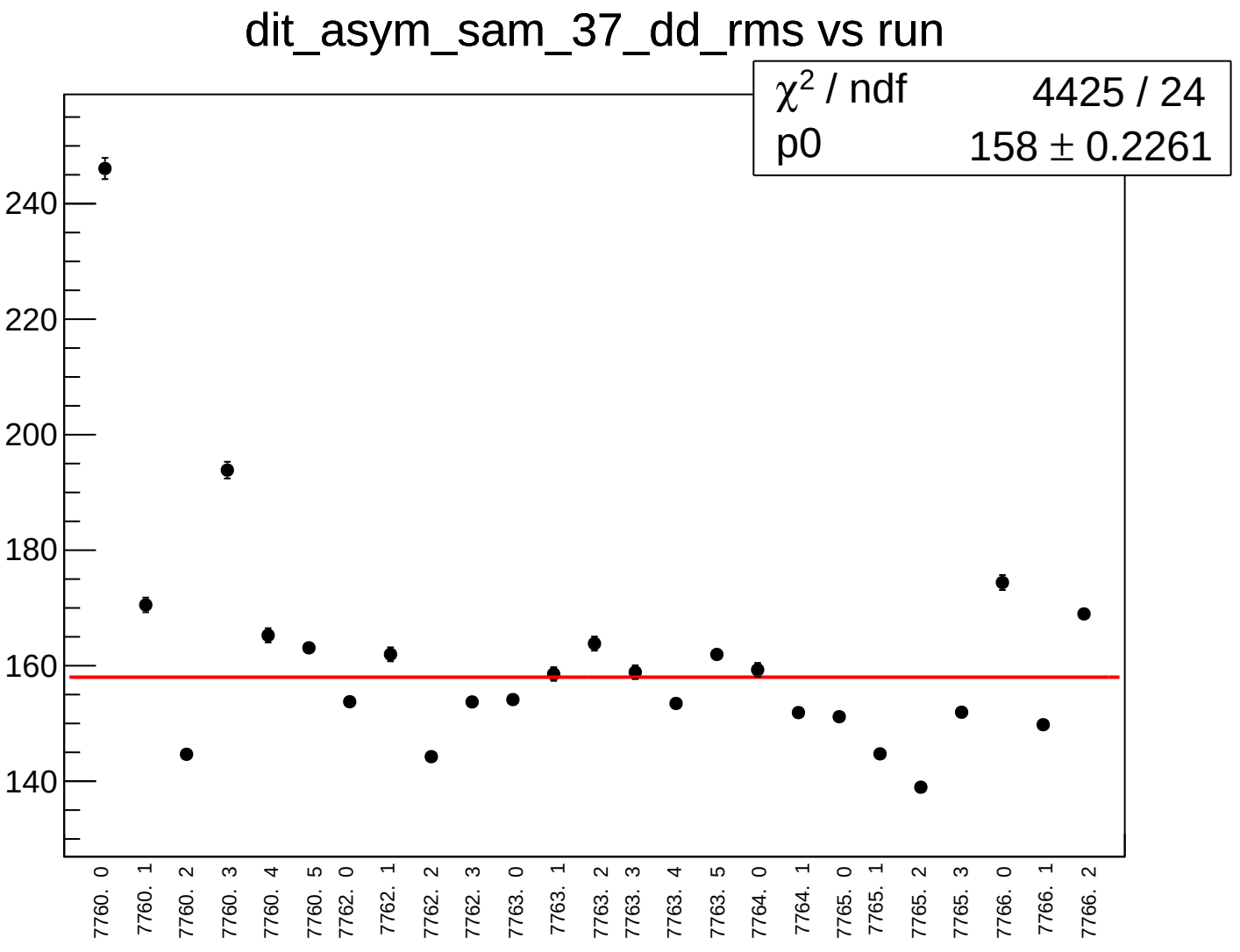

asym_sam_26_dd_mean vs run
×10^3
χ² / ndf 36.07 / 24
p0 1.516e+04 ± 7498
150
100
50
0
−50
−100
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −335.3
Std Dev 340.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

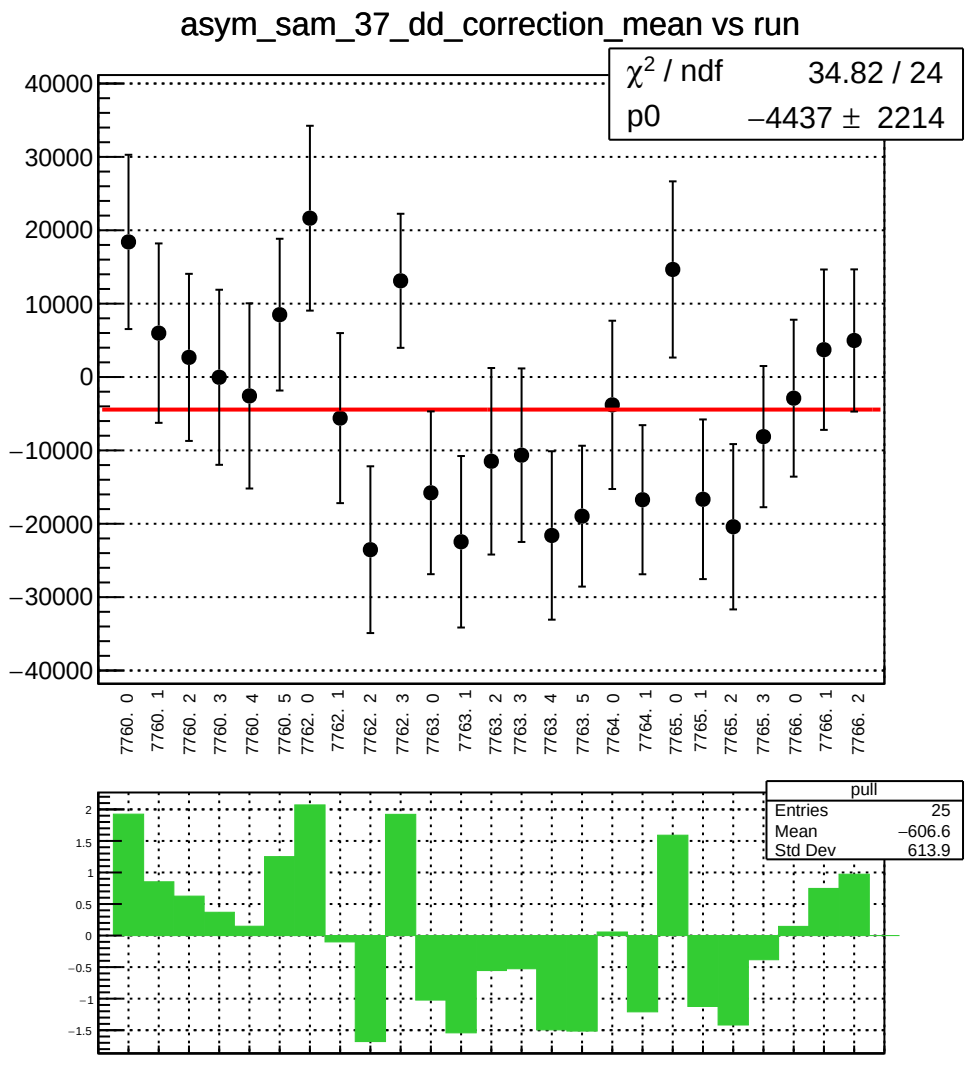

pull1D
Entries 25
Mean −0.005961
Std Dev 1.201
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

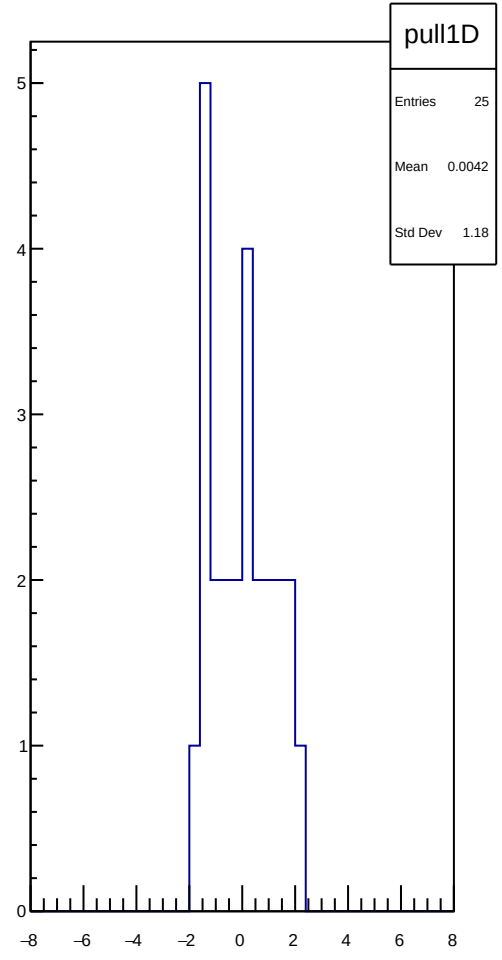

asym_sam_26_dd_rms vs run
χ² / ndf 1435 / 24
p0 3716 ± 5.302
4200
4100
4000
3900
3800
3700
3600
3500
3400
3300
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

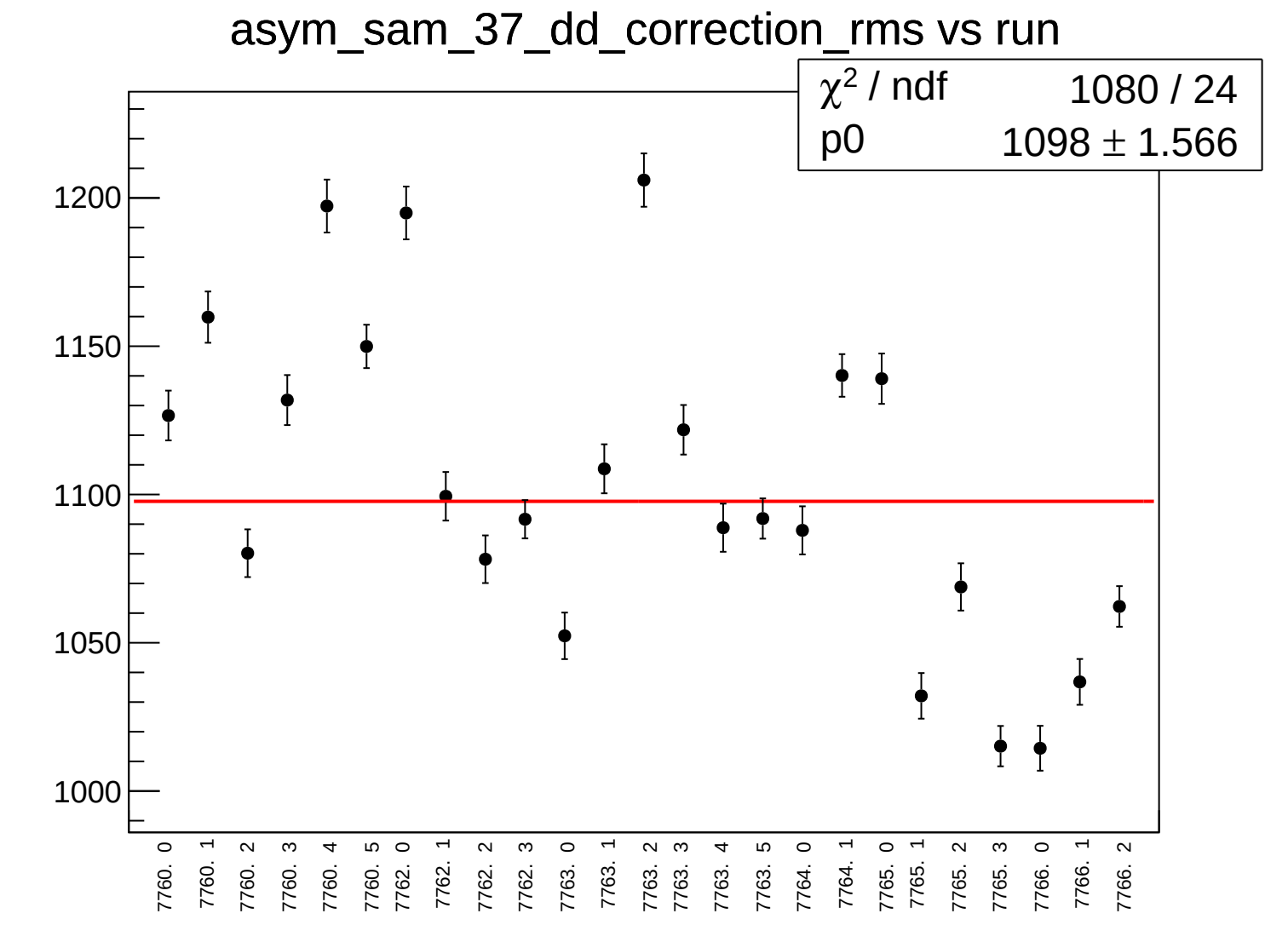

dit_asym_sam_37_dd_mean vs run
χ² / ndf 26.6 / 24
p0 33.63 ± 319.8
6000
4000
2000
0
−2000
−4000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −311.3
Std Dev 321.8
2
1
0
−1
−2

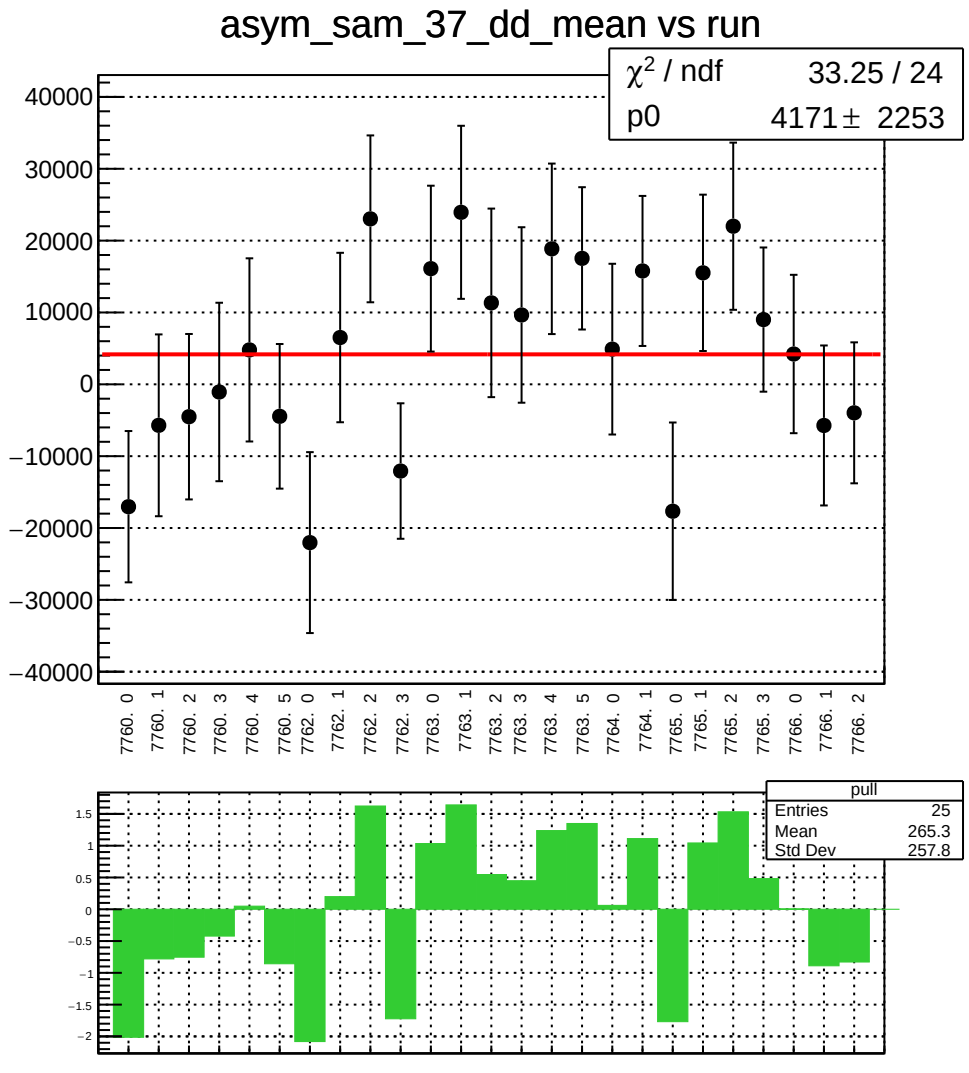

pull1D
Entries 25
Mean 0.004134
Std Dev 1.031
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

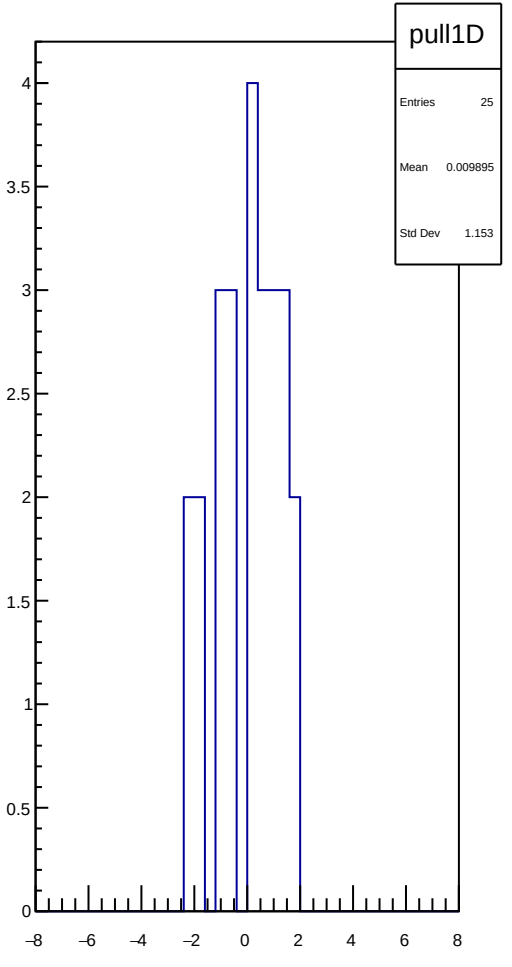

dit_asym_sam_37_dd_rms vs run
χ² / ndf 4425 / 24
p0 158 ± 0.2261
240
220
200
180
160
140
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

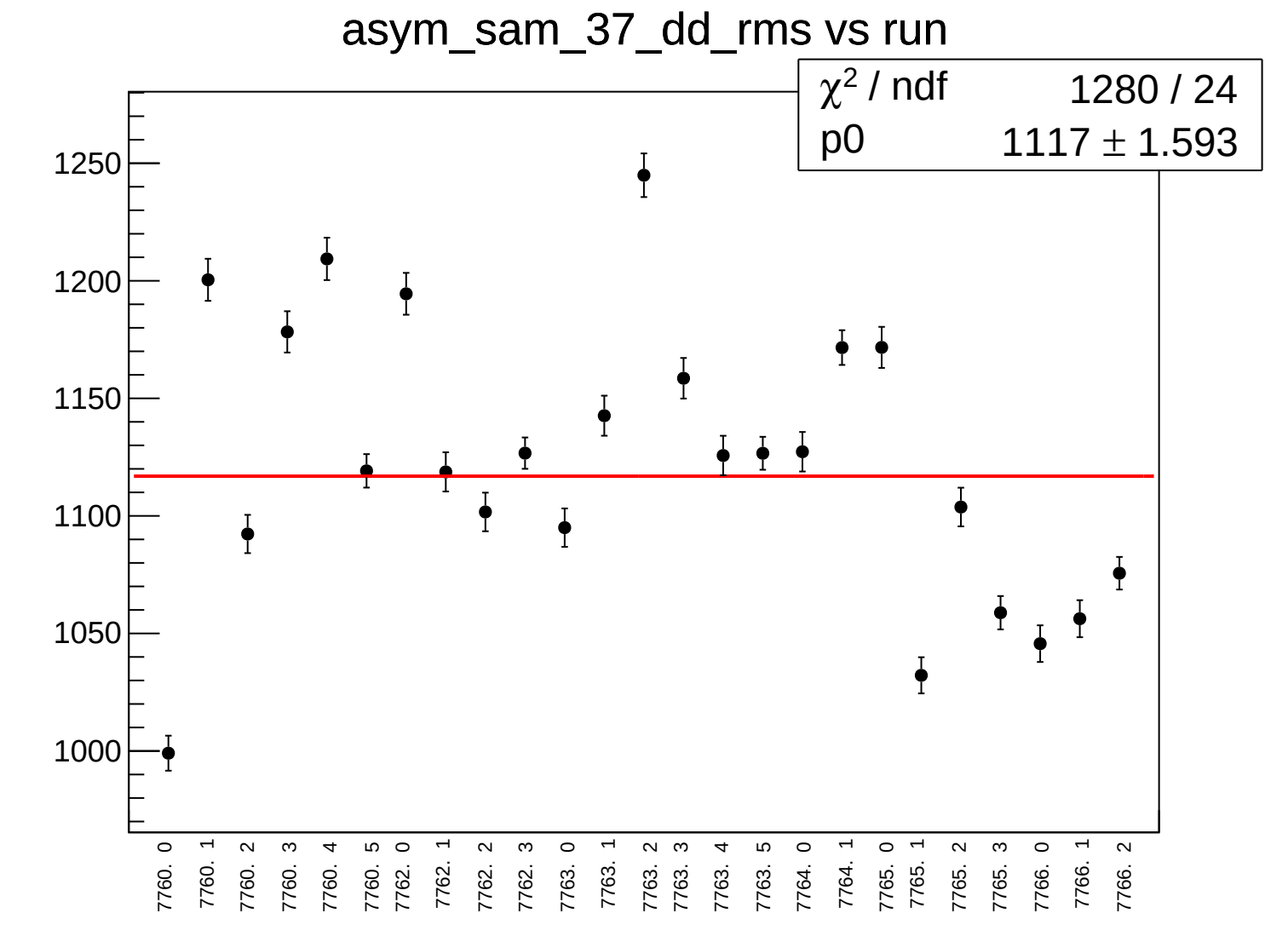

asym_sam_37_dd_correction_mean vs run
χ² / ndf 34.82 / 24
p0 −4437 ± 2214
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −606.6
Std Dev 613.9
2
1.5
1
0.5
0
−0.5
−1
−1.5

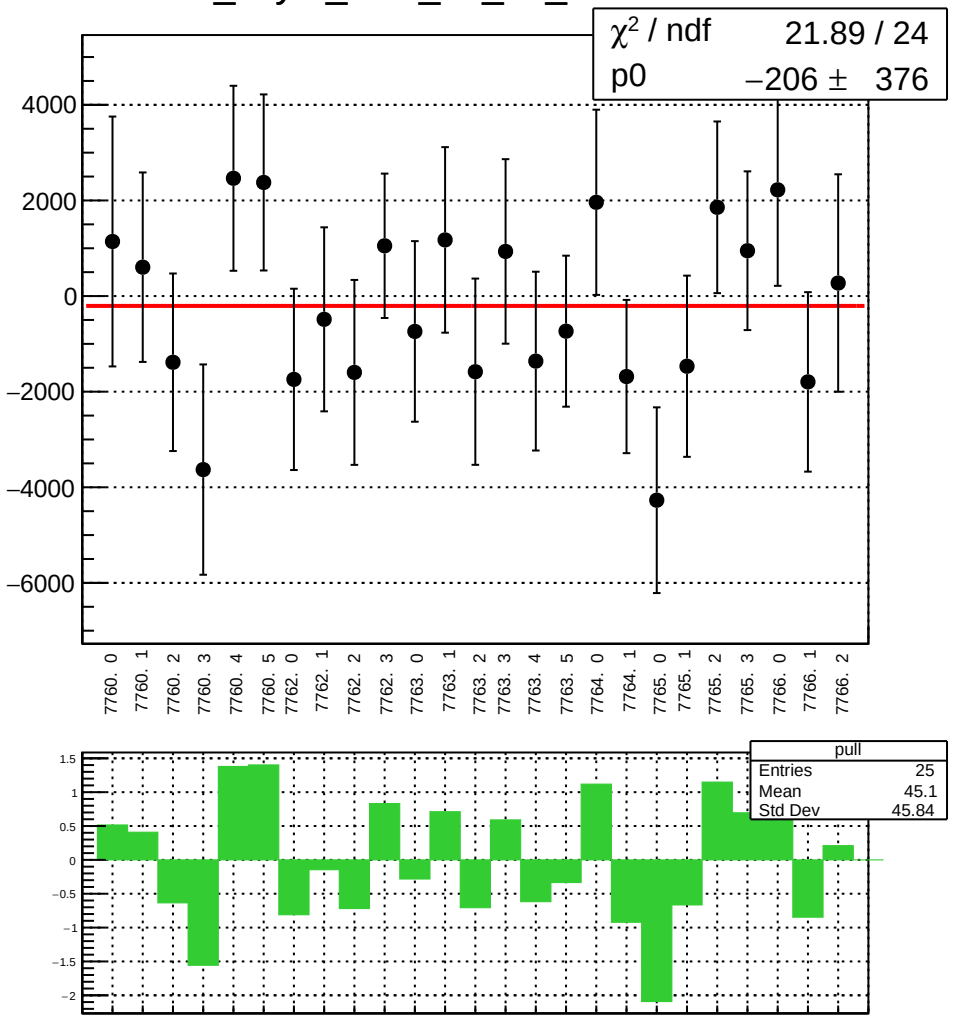

pull1D
Entries 25
Mean 0.0042
Std Dev 1.18
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

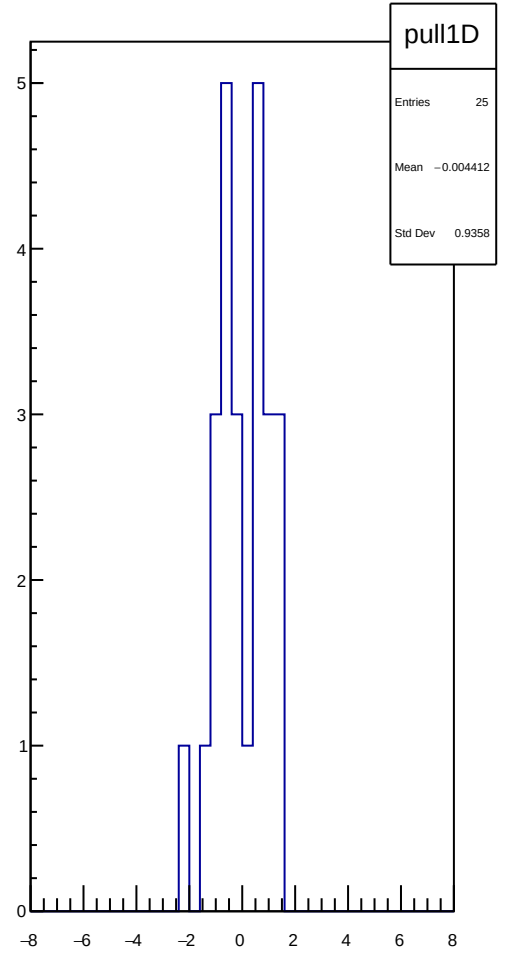

asym_sam_37_dd_correction_rms vs run
χ² / ndf 1080 / 24
p0 1098 ± 1.566
1200
1150
1100
1050
1000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

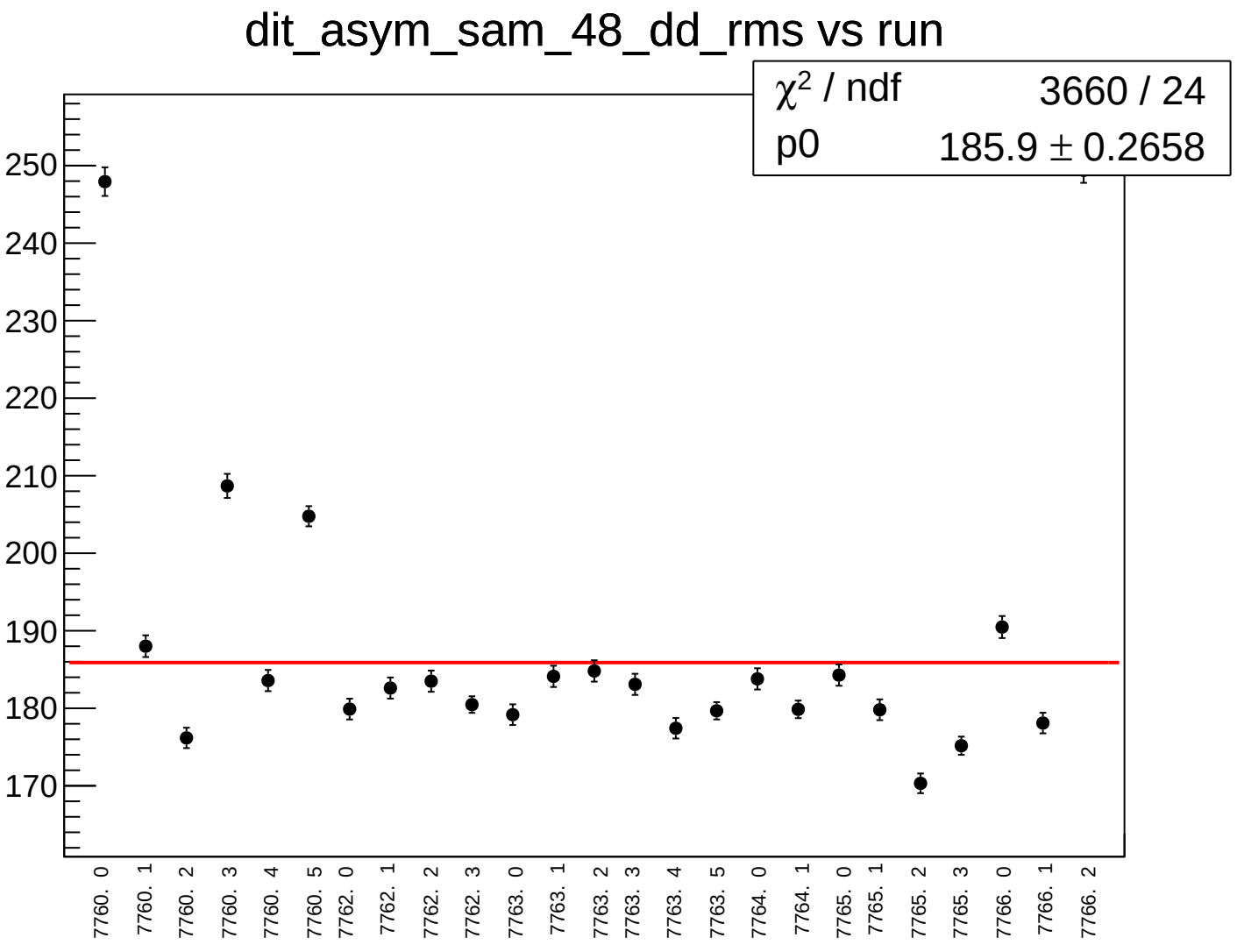

asym_sam_37_dd_mean vs run
χ² / ndf 33.25 / 24
p0 4171 ± 2253
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 265.3
Std Dev 257.8
1.5
1
0.5
0
−0.5
−1
−1.5
−2

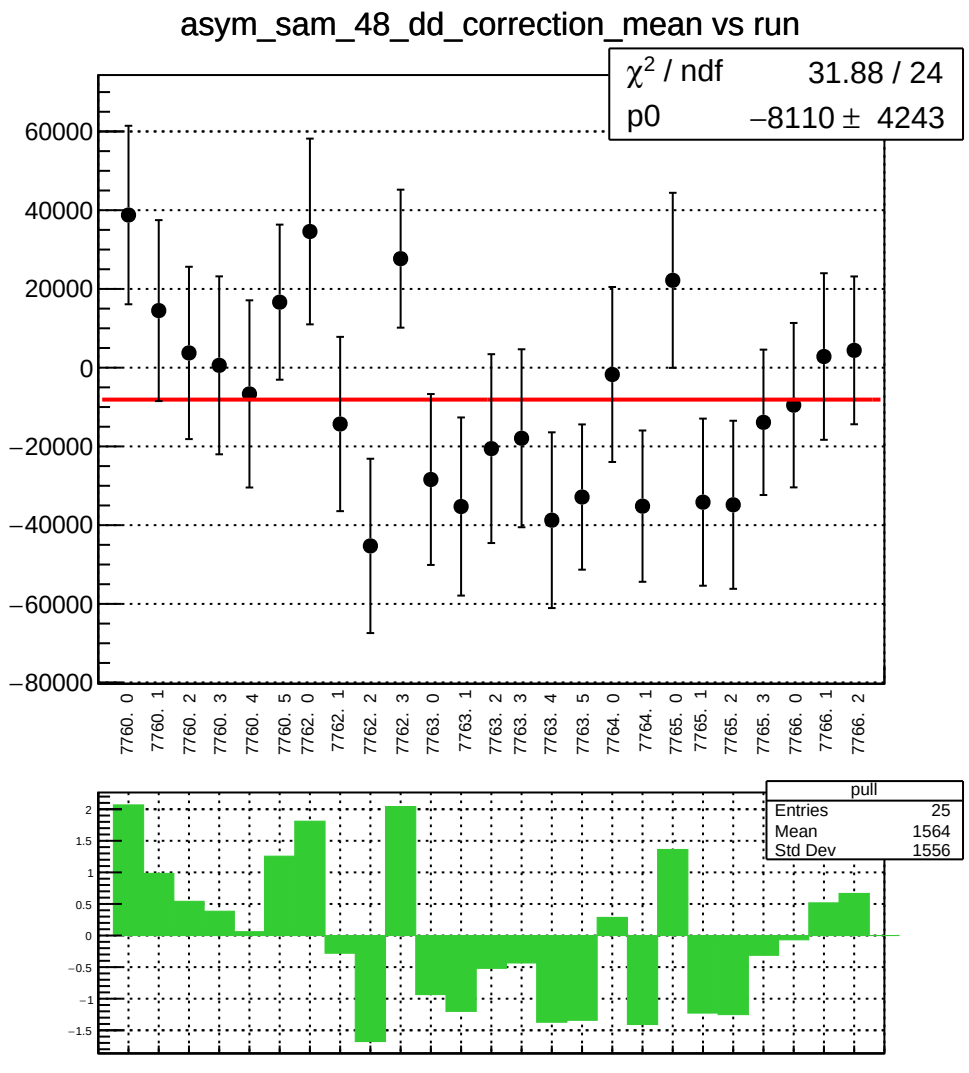

pull1D
Entries 25
Mean 0.009895
Std Dev 1.153
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

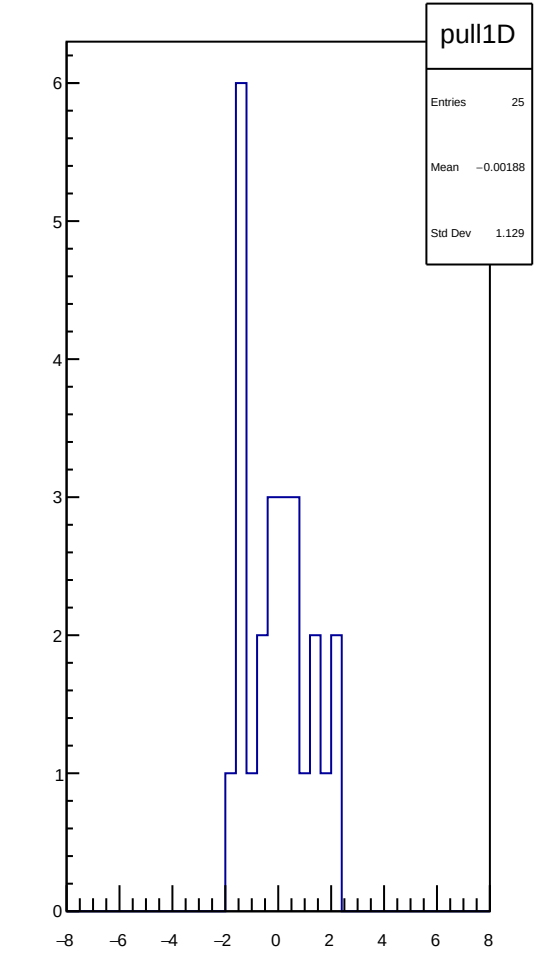

asym_sam_37_dd_rms vs run
χ² / ndf 1280 / 24
p0 1117 ± 1.593
1250
1200
1150
1100
1050
1000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

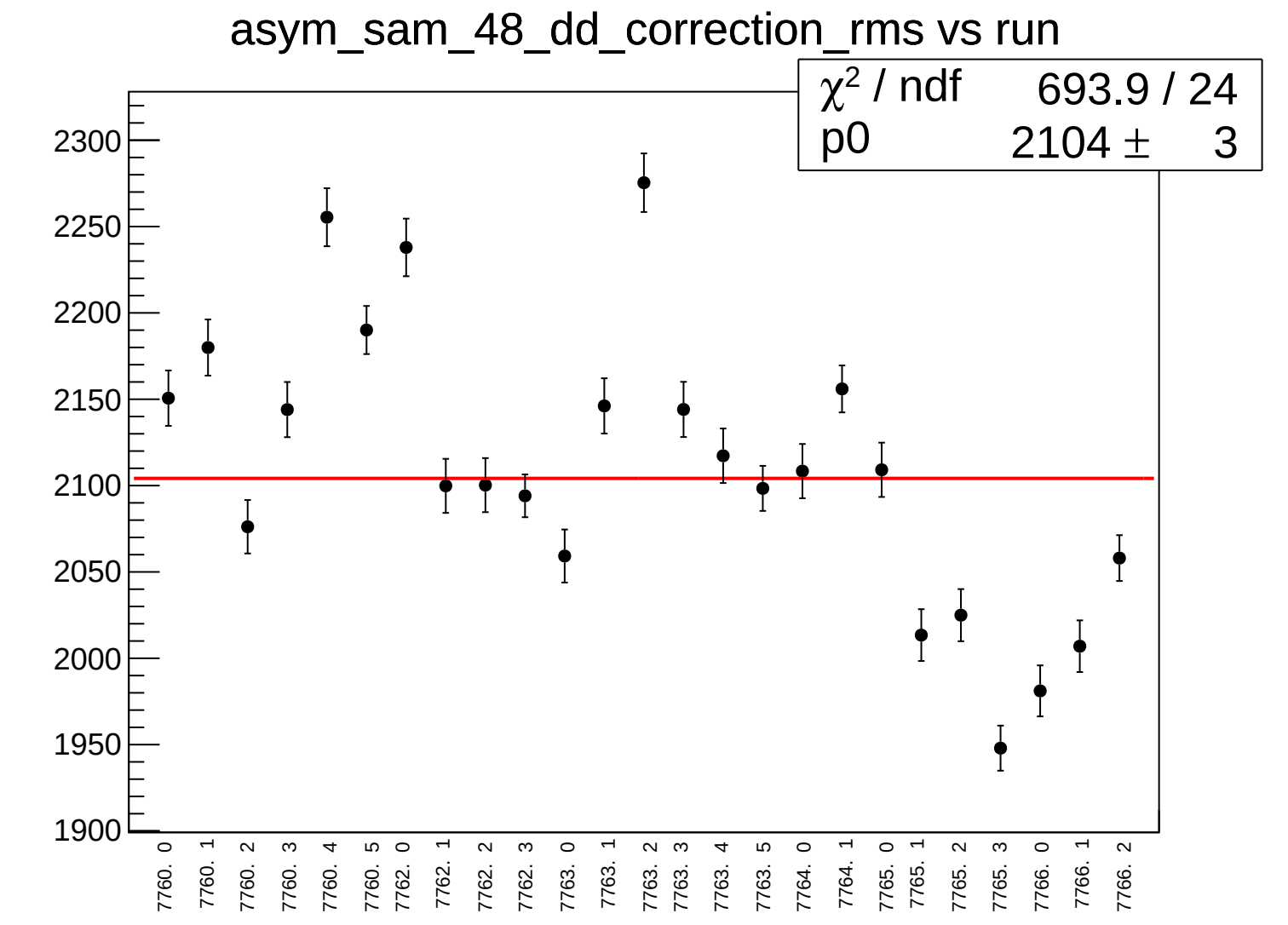

dit_asym_sam_48_dd_mean vs run
χ² / ndf 21.89 / 24
p0 −206 ± 376
4000
2000
0
−2000
−4000
−6000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 45.1
Std Dev 45.84
1.5
1
0.5
0
−0.5
−1
−1.5
−2

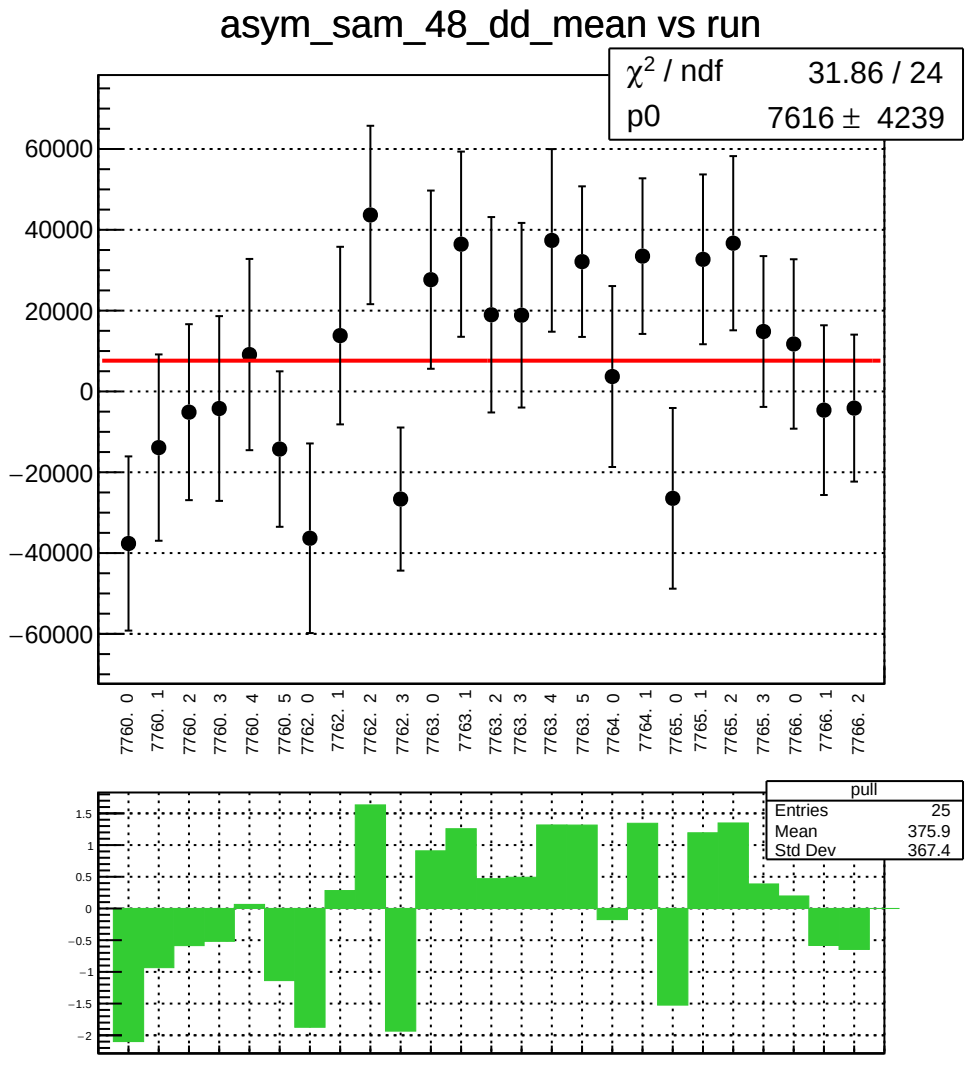

pull1D
Entries 25
Mean −0.004412
Std Dev 0.9358
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

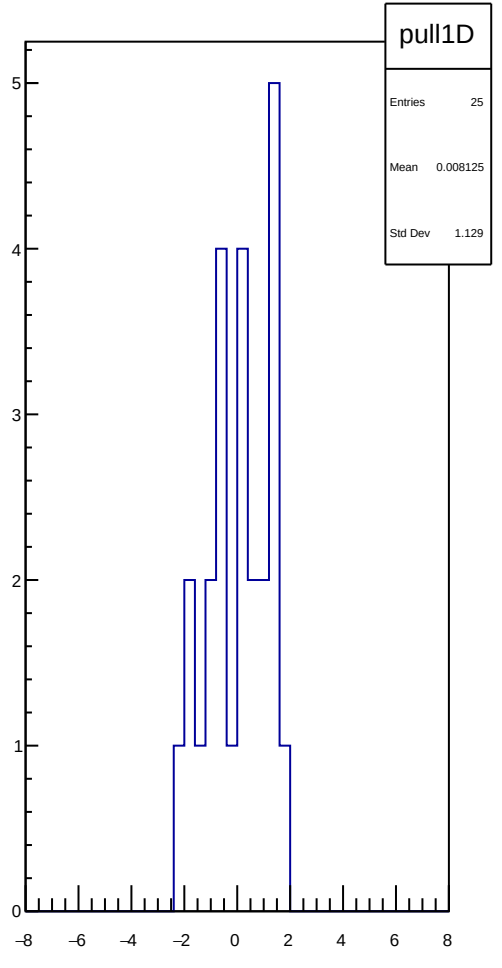

dit_asym_sam_48_dd_rms vs run
χ² / ndf 3660 / 24
p0 185.9 ± 0.2658
250
240
230
220
210
200
190
180
170
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

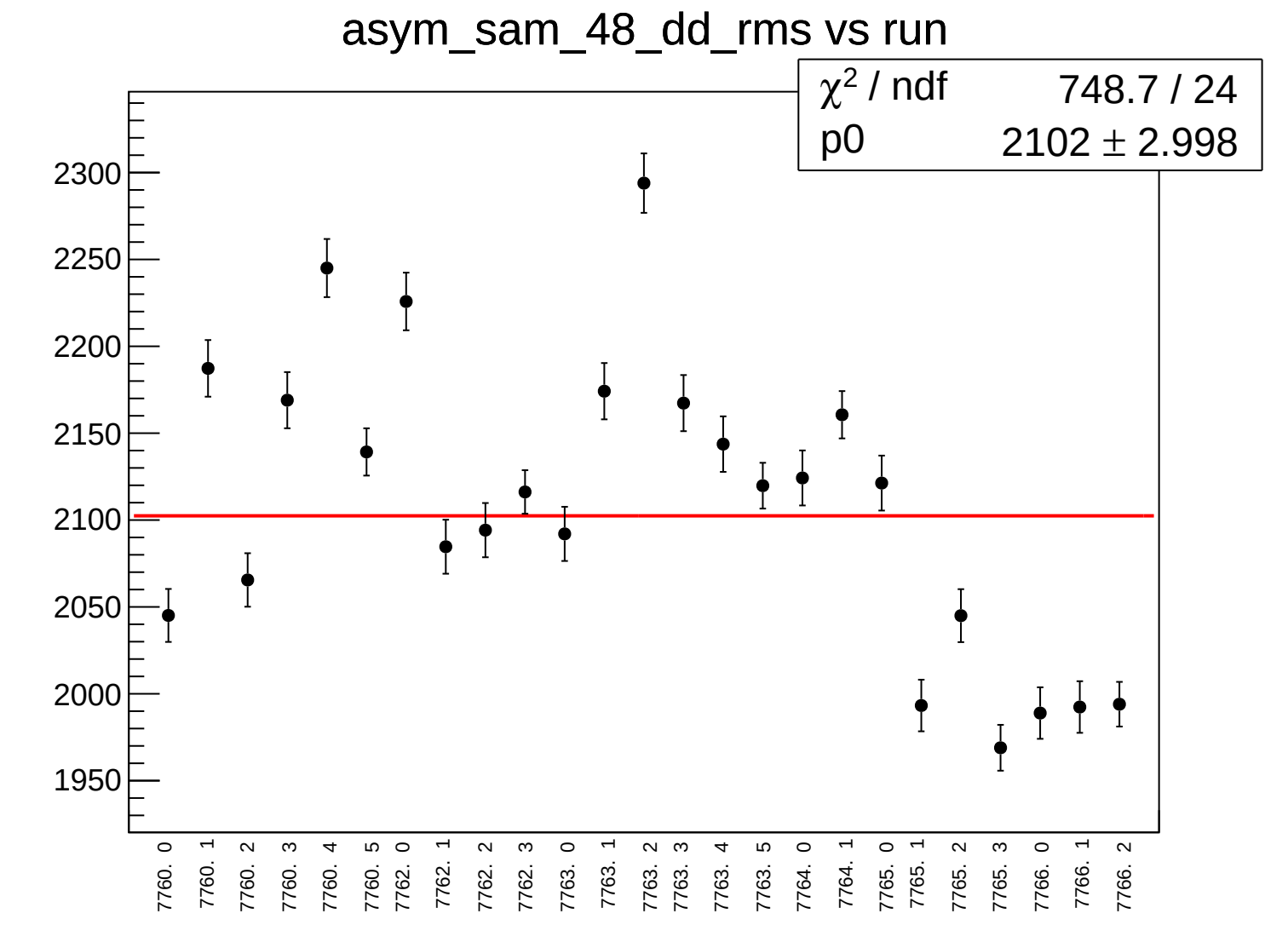

asym_sam_48_dd_correction_mean vs run
χ² / ndf 31.88 / 24
p0 −8110 ± 4243
60000
40000
20000
0
−20000
−40000
−60000
−80000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 1564
Std Dev 1556
2
1.5
1
0.5
0
−0.5
−1
−1.5

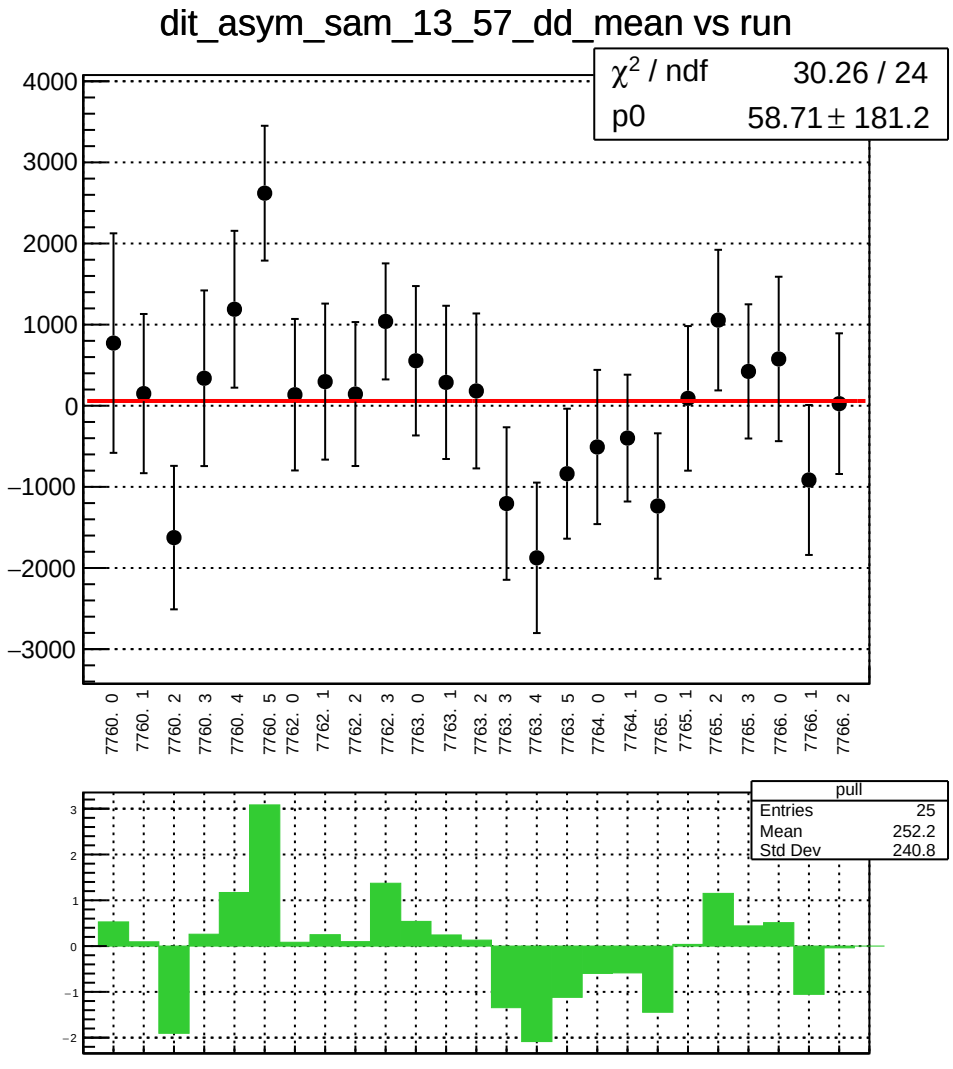

pull1D
Entries 25
Mean −0.00188
Std Dev 1.129
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

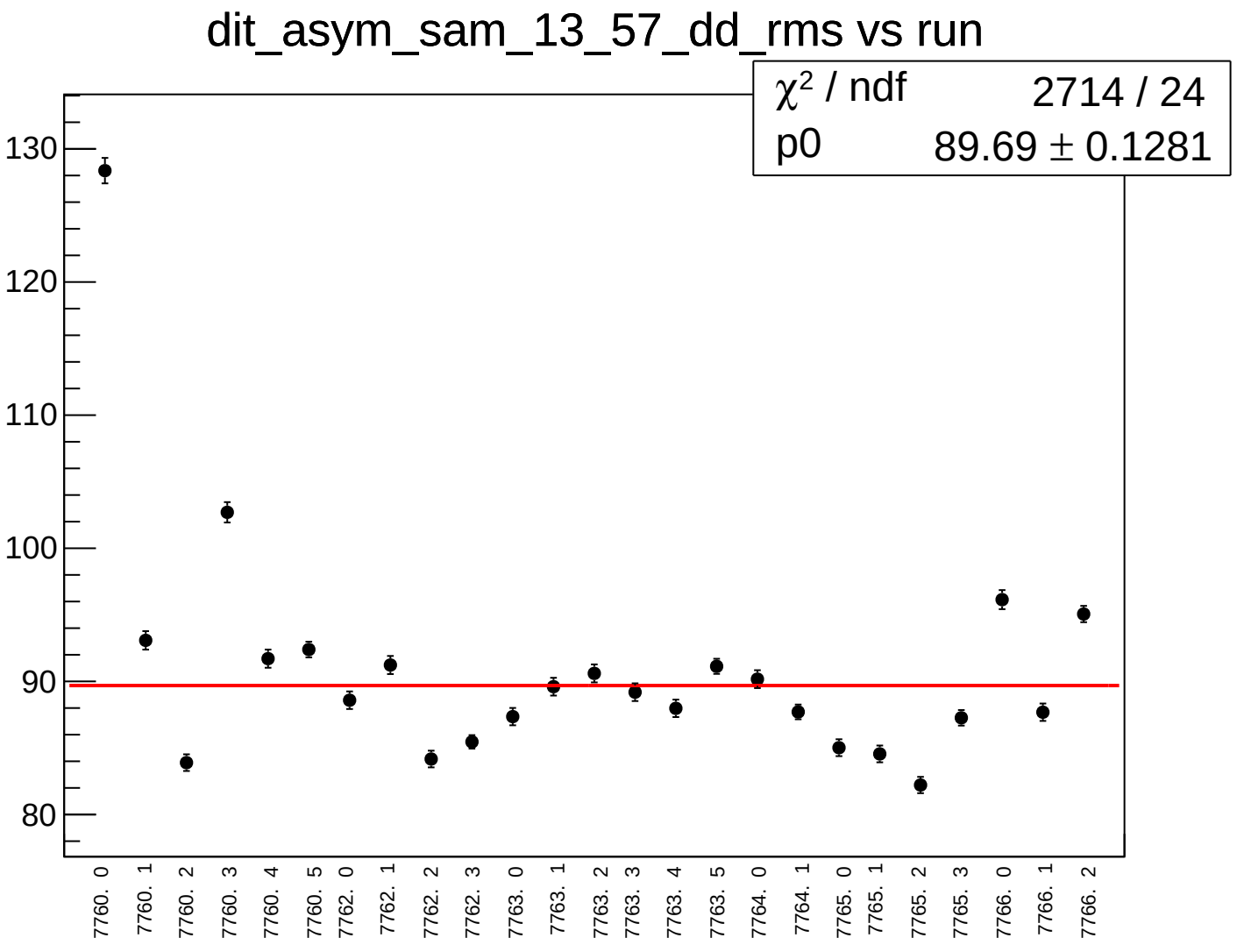

asym_sam_48_dd_correction_rms vs run
χ² / ndf 693.9 / 24
p0 2104 ± 3
2300
2250
2200
2150
2100
2050
2000
1950
1900
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

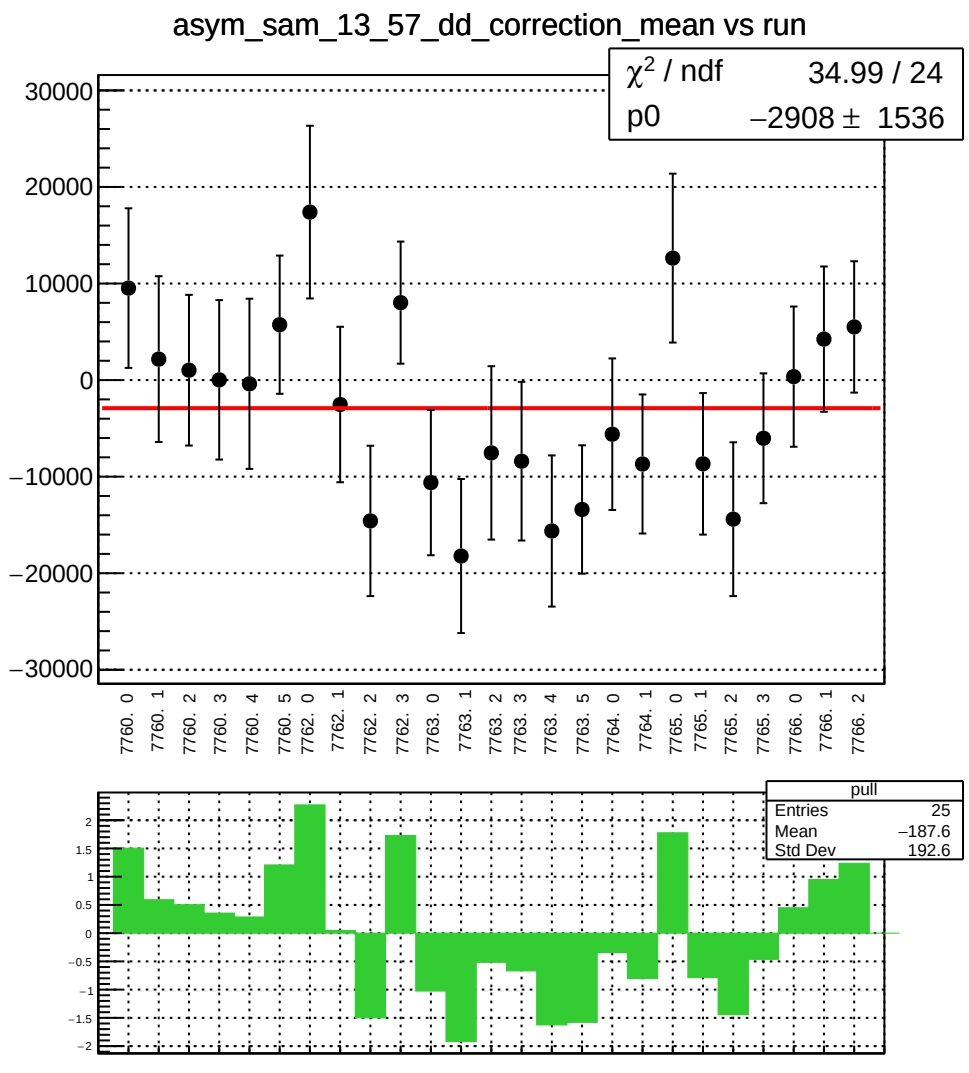

asym_sam_48_dd_mean vs run
χ² / ndf 31.86 / 24
p0 7616 ± 4239
60000
40000
20000
0
−20000
−40000
−60000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 375.9
Std Dev 367.4
1.5
1
0.5
0
−0.5
−1
−1.5
−2

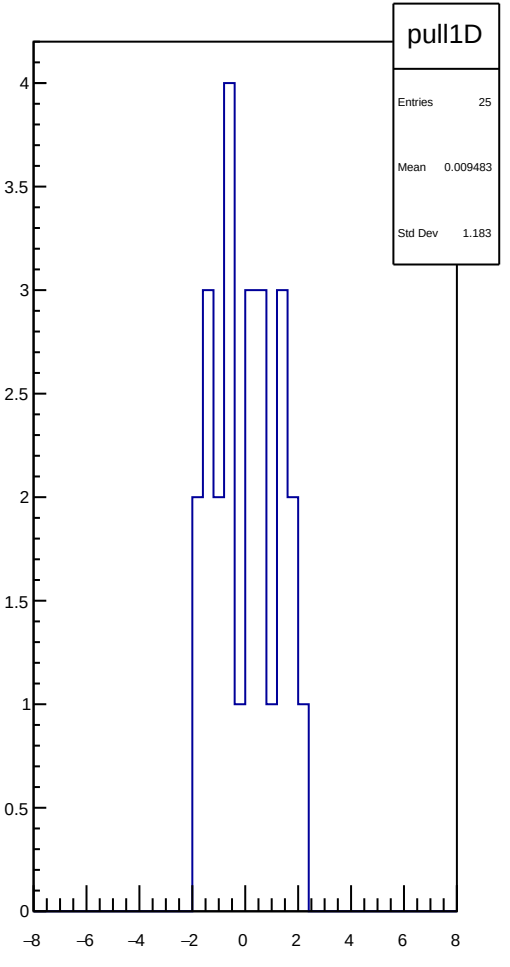

pull1D
Entries 25
Mean 0.008125
Std Dev 1.129
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

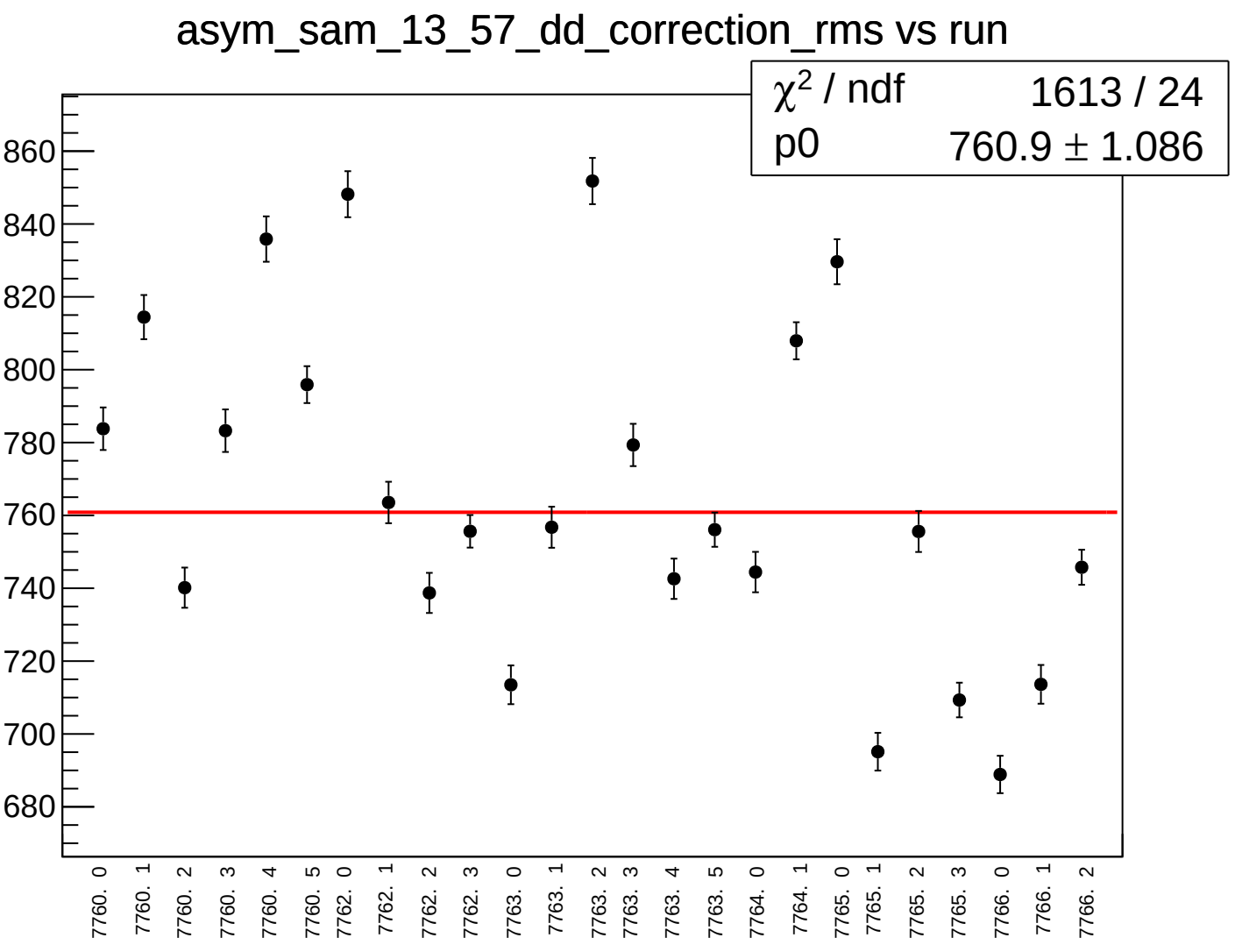

asym_sam_48_dd_rms vs run
χ² / ndf 748.7 / 24
p0 2102 ± 2.998
2300
2250
2200
2150
2100
2050
2000
1950
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

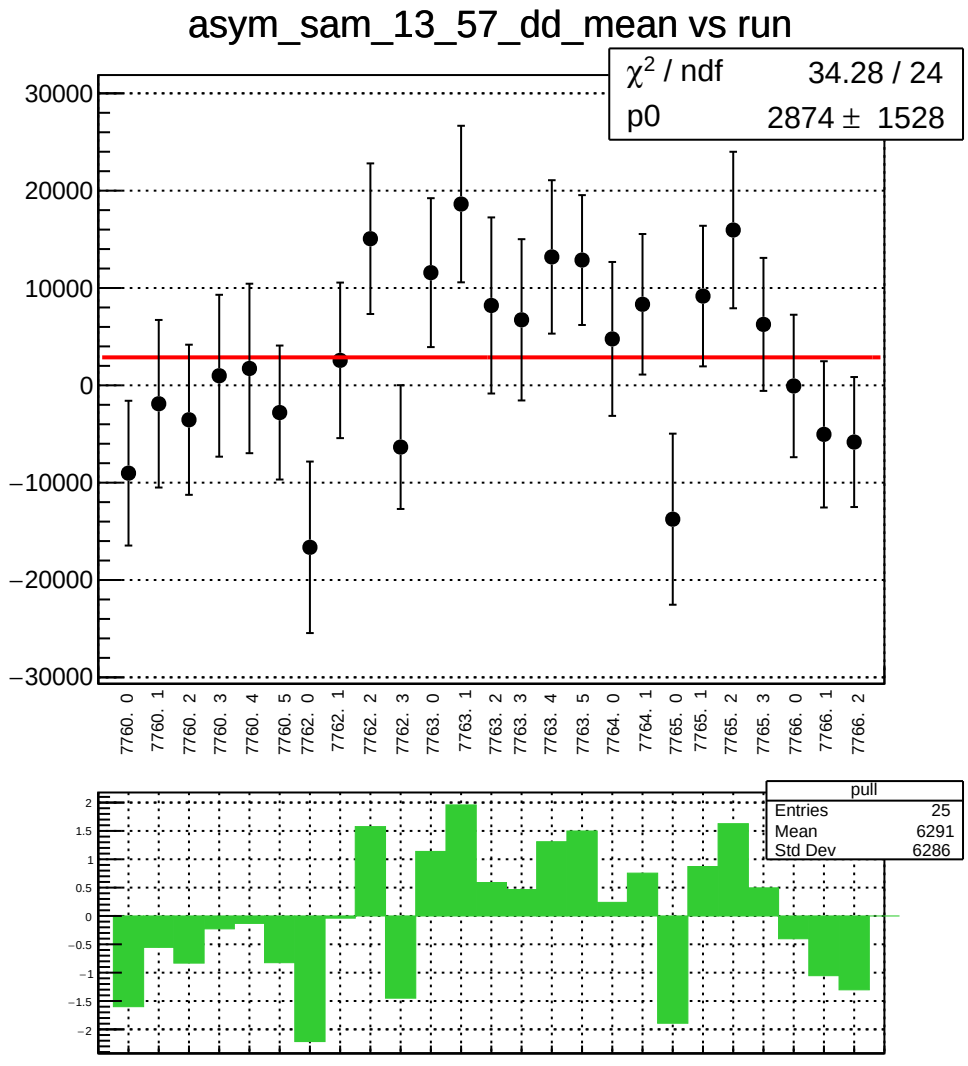

dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 30.26 / 24
p0 58.71 ± 181.2
4000
3000
2000
1000
0
−1000
−2000
−3000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 252.2
Std Dev 240.8
3
2
1
0
−1
−2
pull1D
Entries 25
Mean −0.007593
Std Dev 1.1
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

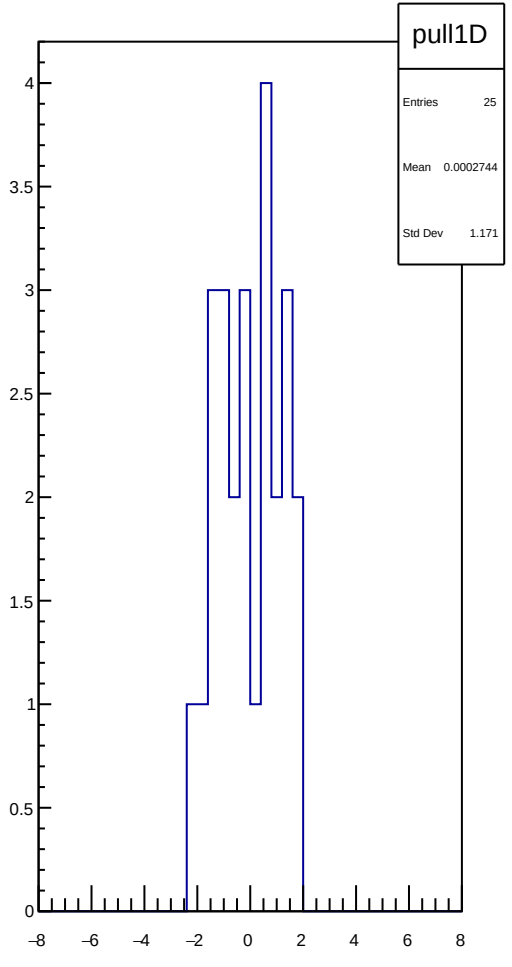

dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 2714 / 24
p0 89.69 ± 0.1281
130
120
110
100
90
80
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

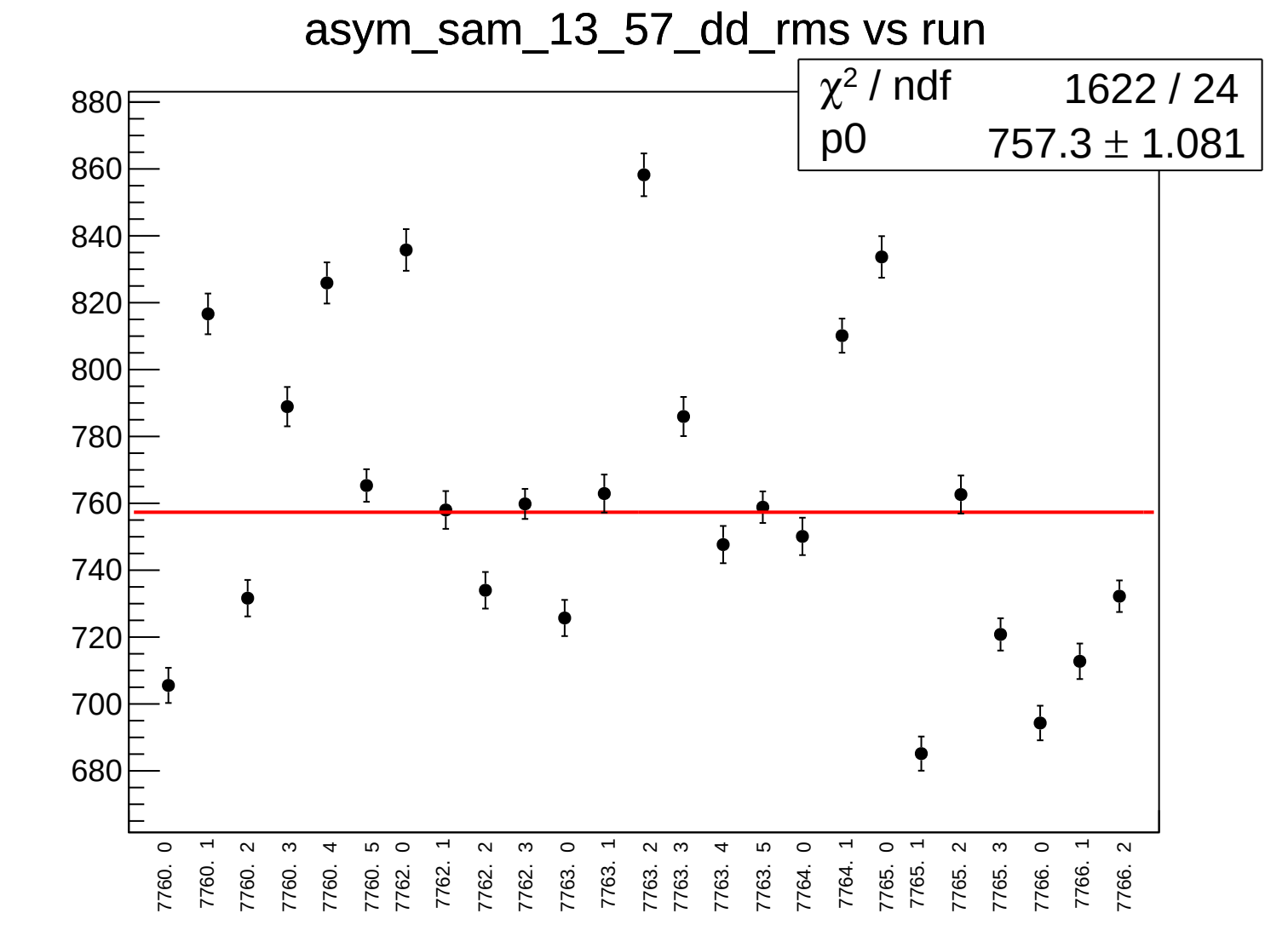

asym_sam_13_57_dd_correction_mean vs run
χ² / ndf 34.99 / 24
p0 −2908 ± 1536
30000
20000
10000
0
−10000
−20000
−30000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −187.6
Std Dev 192.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

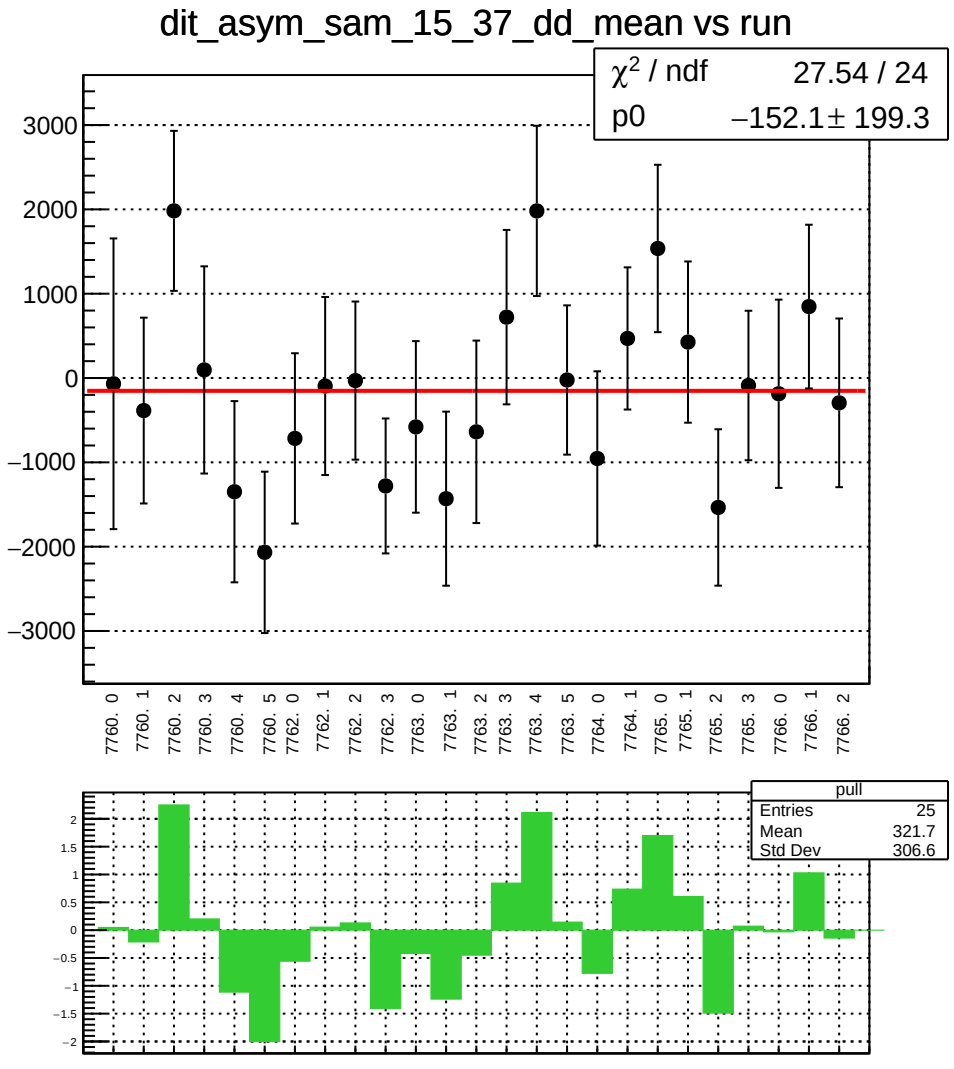

pull1D
Entries 25
Mean 0.009483
Std Dev 1.183
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

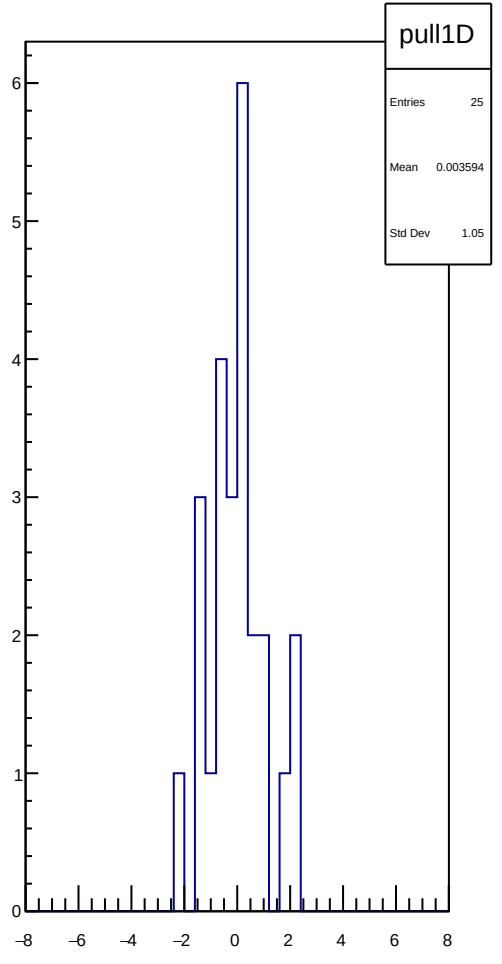

asym_sam_13_57_dd_correction_rms vs run
χ² / ndf 1613 / 24
p0 760.9 ± 1.086
860
840
820
800
780
760
740
720
700
680
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

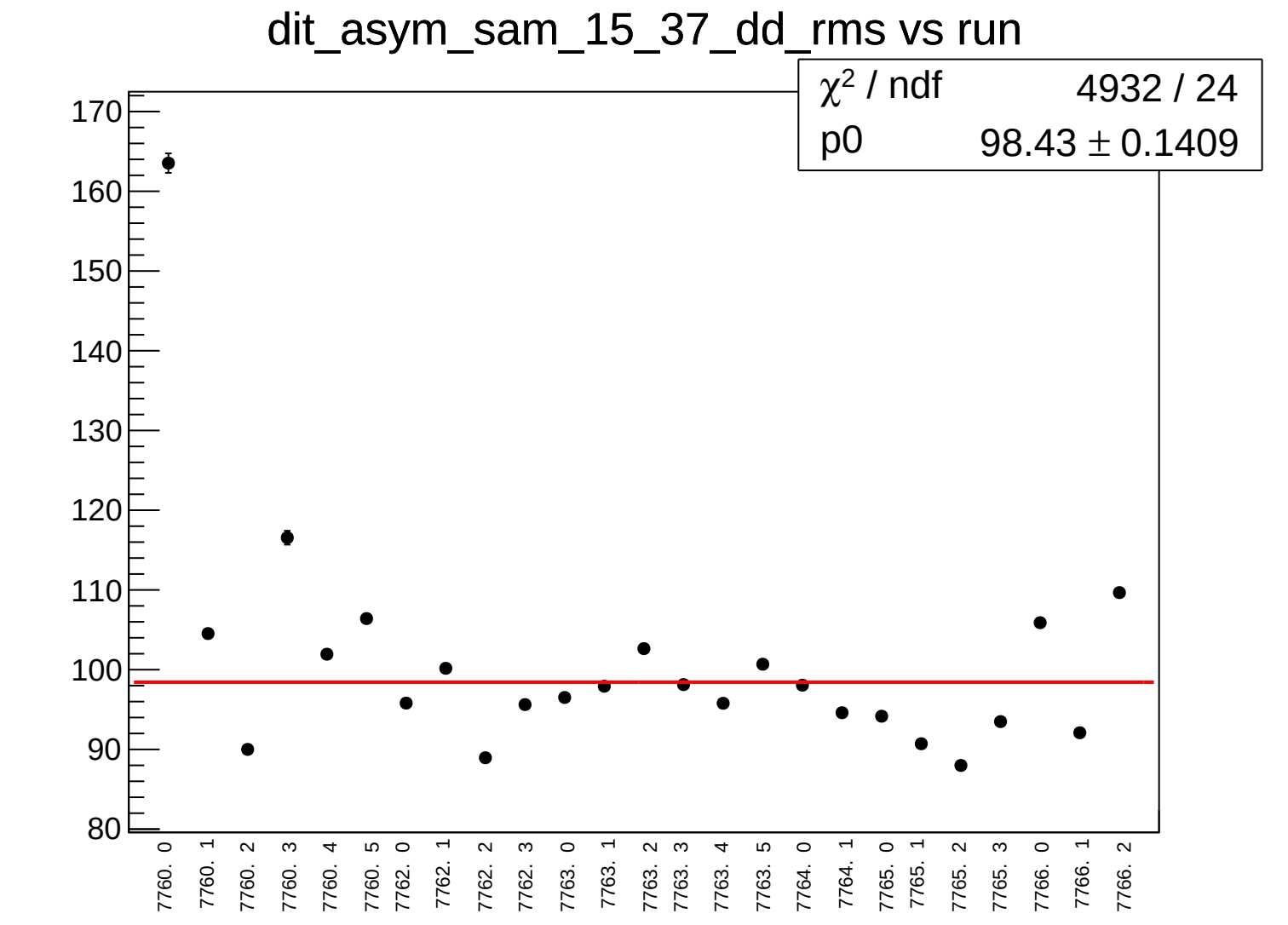

asym_sam_13_57_dd_mean vs run
χ² / ndf 34.28 / 24
p0 2874 ± 1528
30000
20000
10000
0
−10000
−20000
−30000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 6291
Std Dev 6286
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

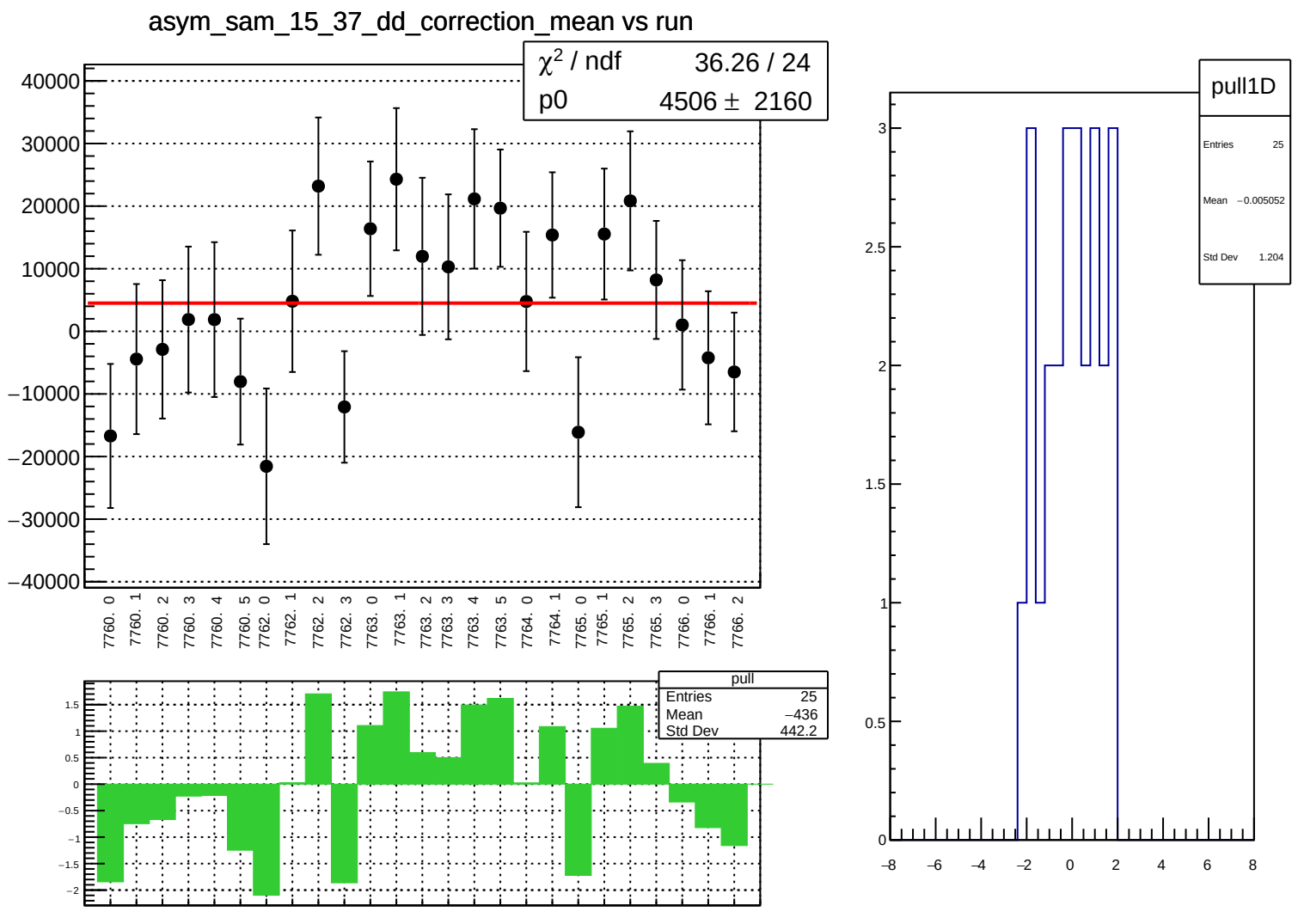

pull1D
Entries 25
Mean 0.0002744
Std Dev 1.171
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

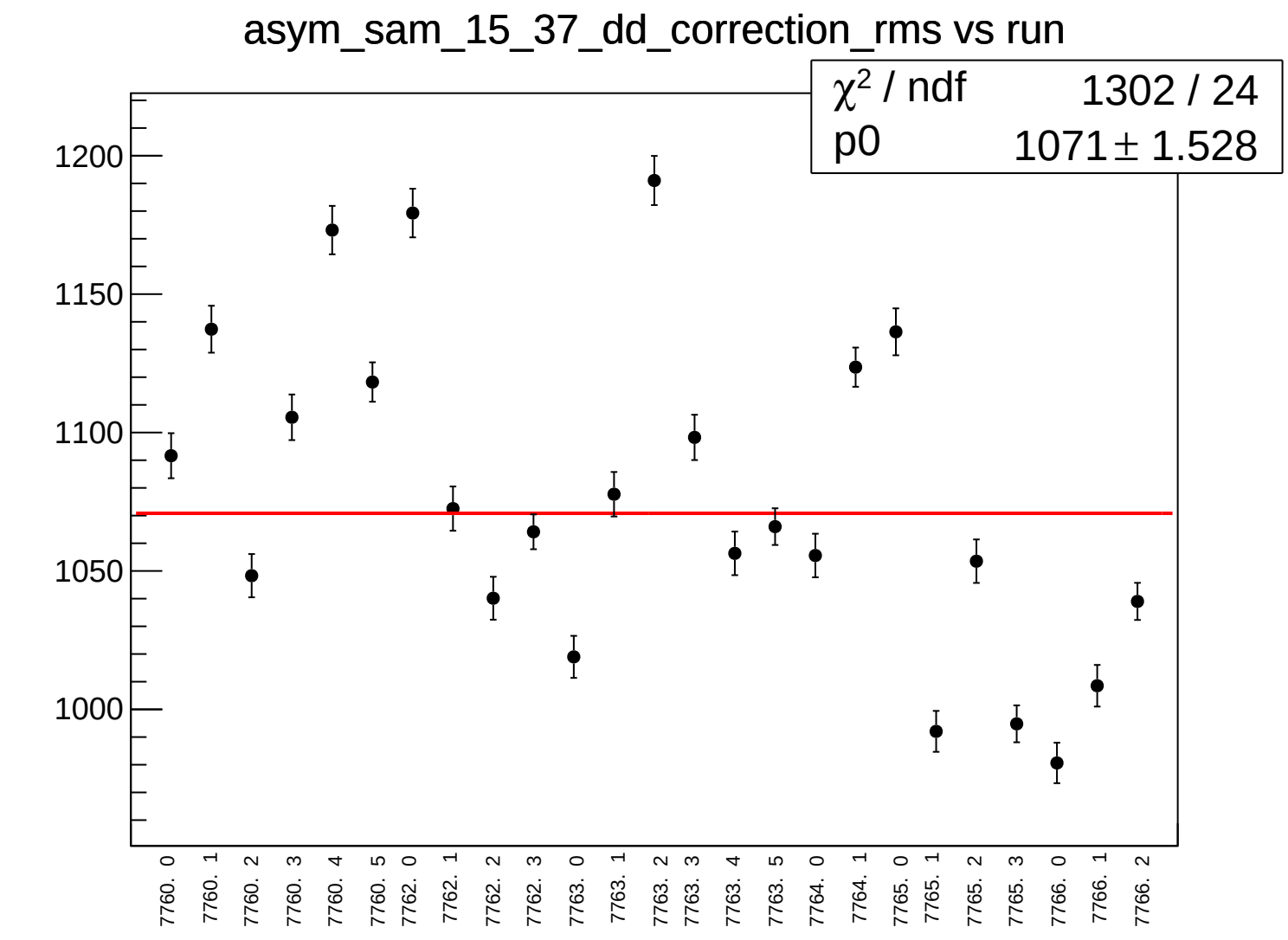

asym_sam_13_57_dd_rms vs run
χ² / ndf 1622 / 24
p0 757.3 ± 1.081
880
860
840
820
800
780
760
740
720
700
680
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

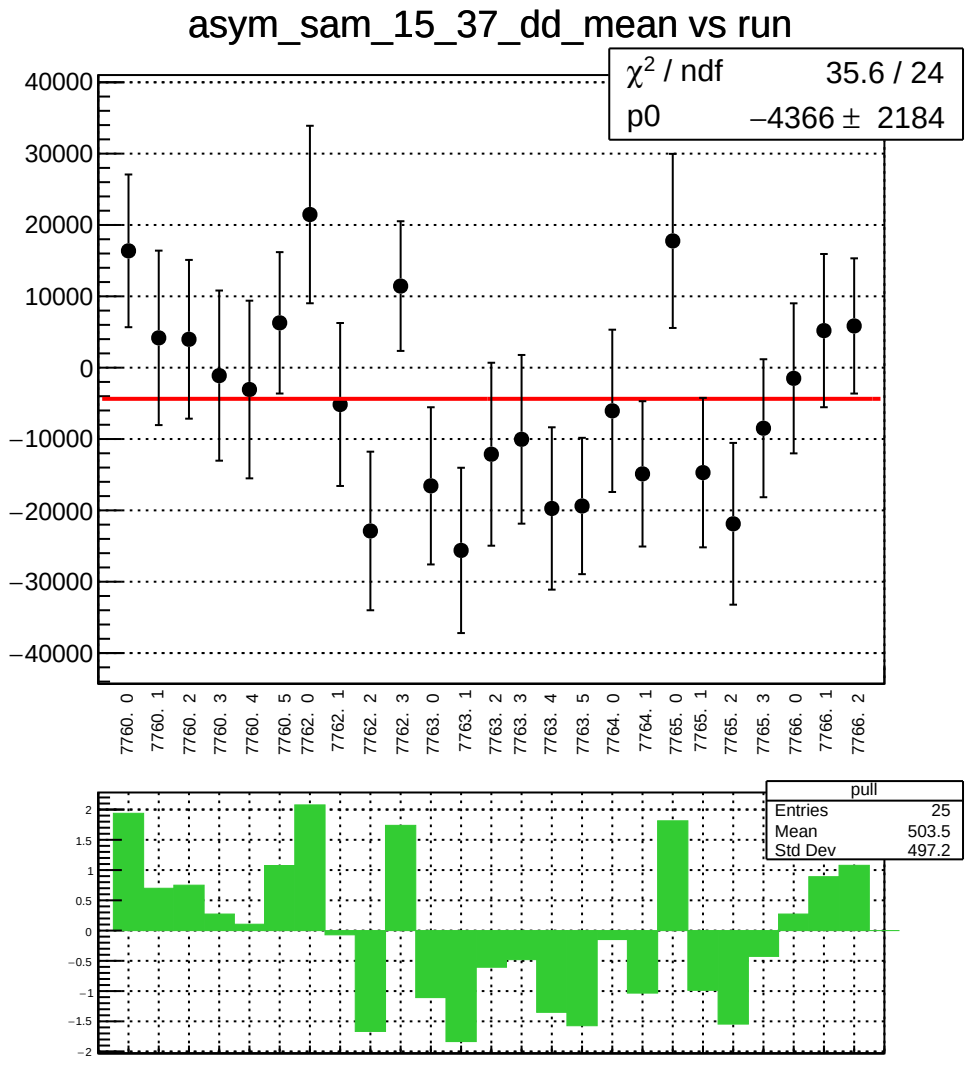

dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 27.54 / 24
p0 −152.1± 199.3
3000
2000
1000
0
−1000
−2000
−3000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 321.7
Std Dev 306.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

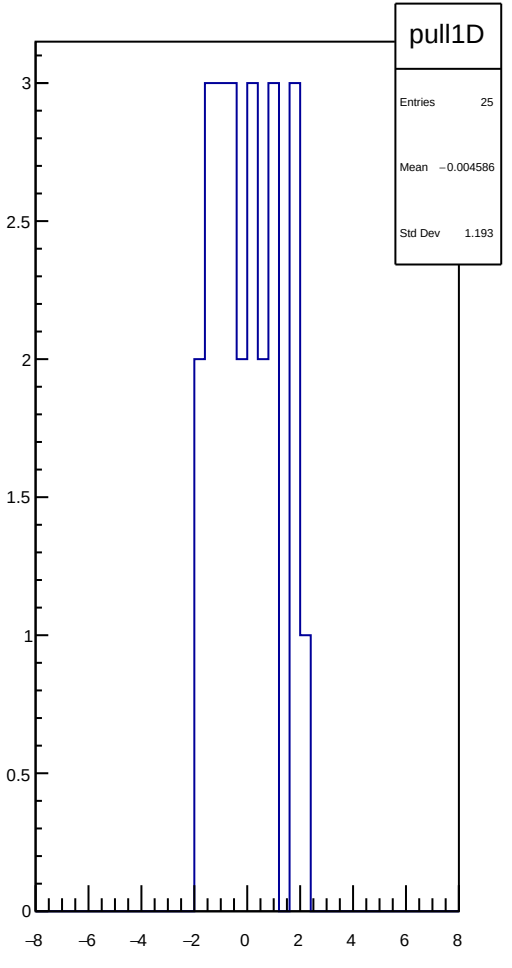

pull1D
Entries 25
Mean 0.003594
Std Dev 1.05
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

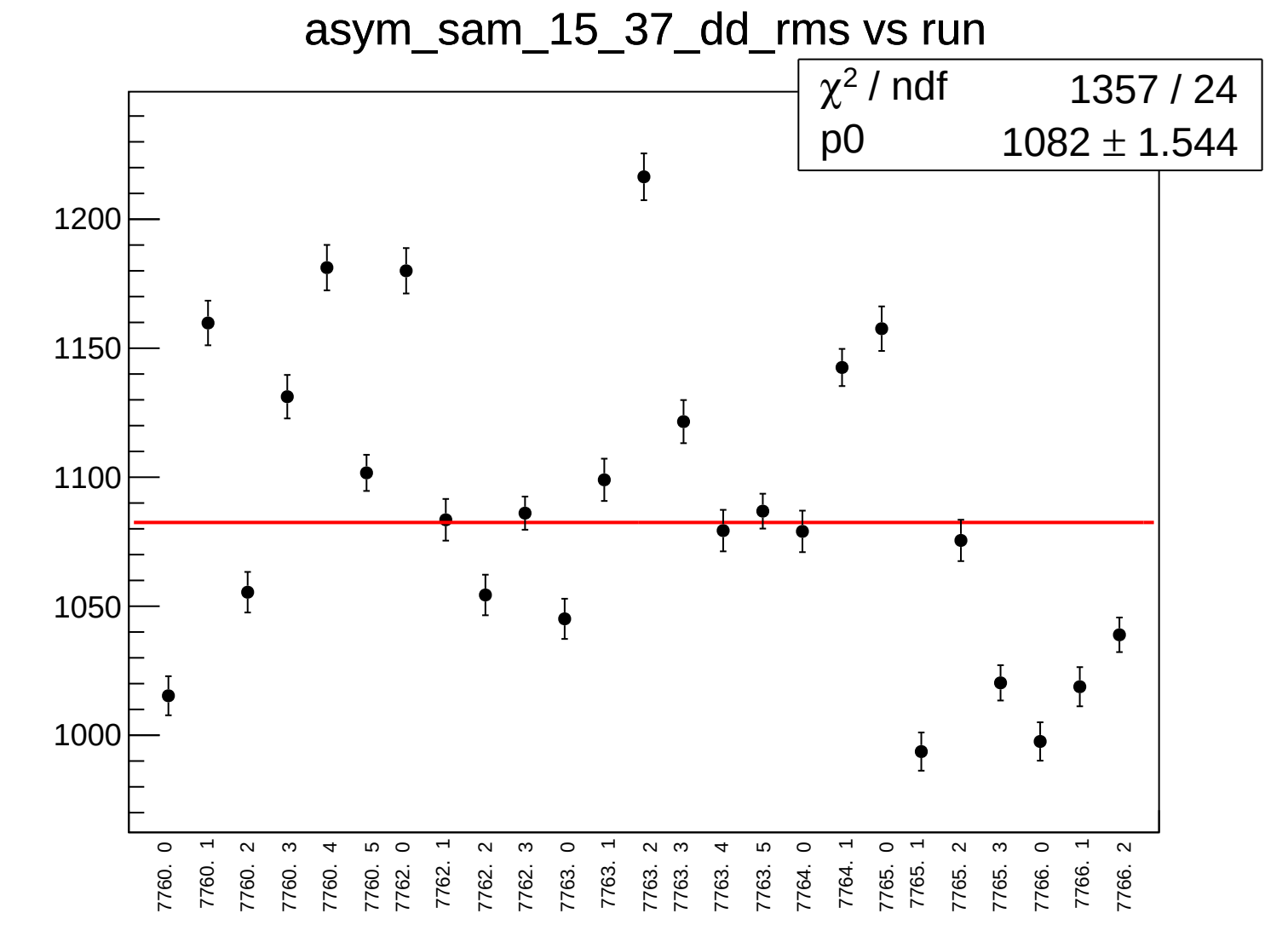

dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 4932 / 24
p0 98.43 ± 0.1409
170
160
150
140
130
120
110
100
90
80
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

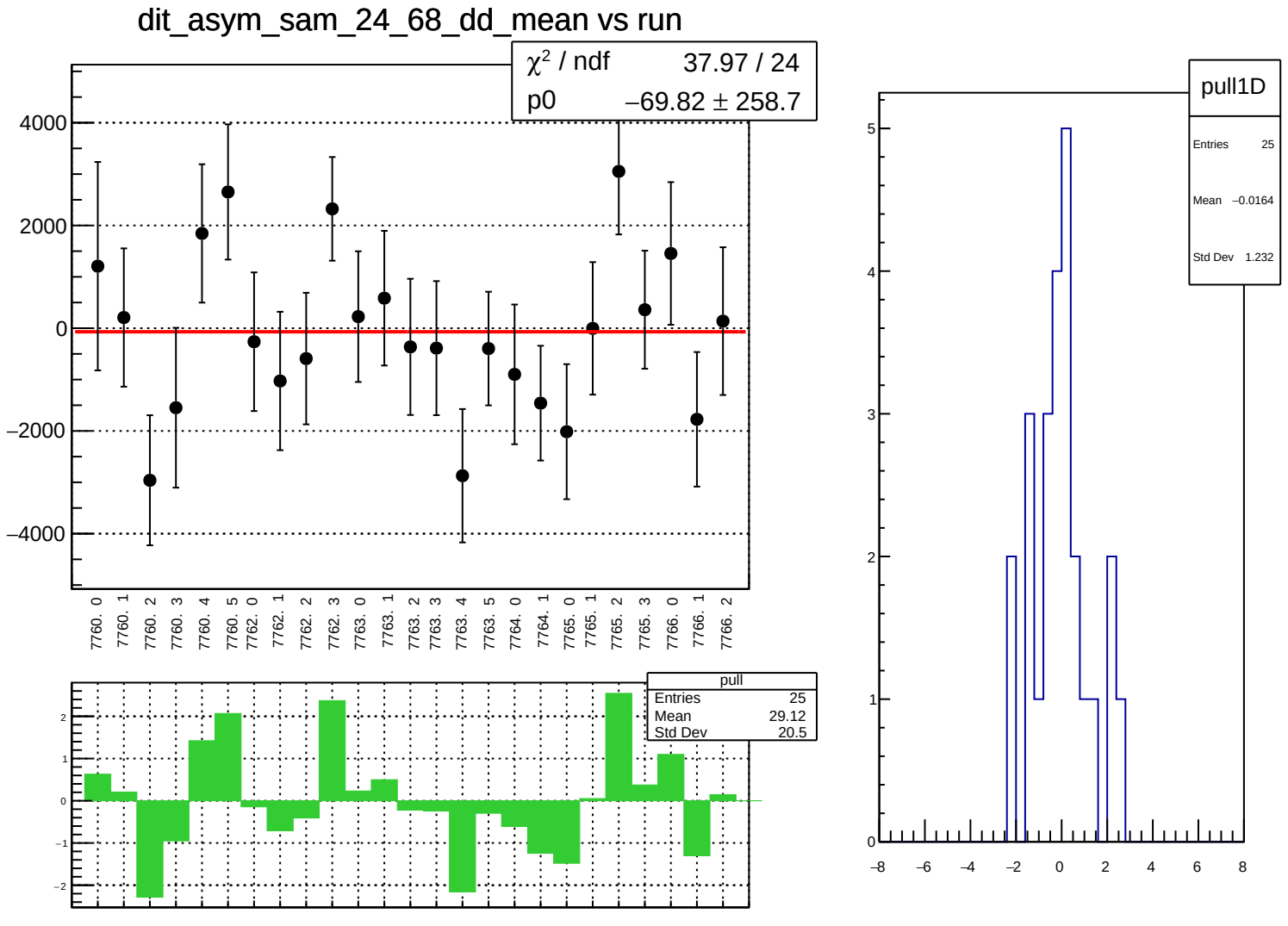

asym_sam_15_37_dd_correction_mean vs run
χ² / ndf 36.26 / 24
p0 4506 ± 2160
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −436
Std Dev 442.2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 25
Mean −0.005052
Std Dev 1.204
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

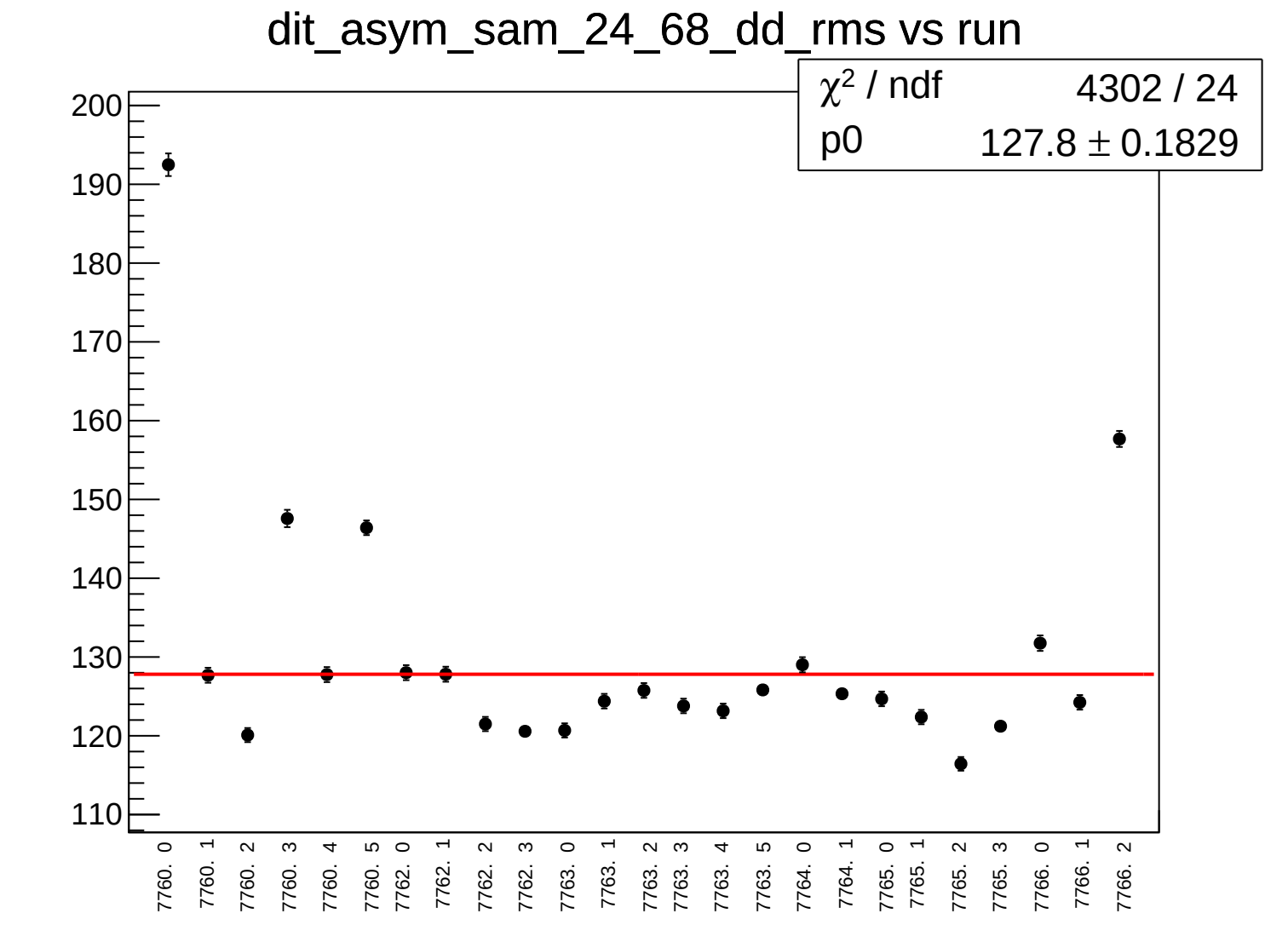

asym_sam_15_37_dd_correction_rms vs run
χ² / ndf 1302 / 24
p0 1071 ± 1.528
1200
1150
1100
1050
1000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

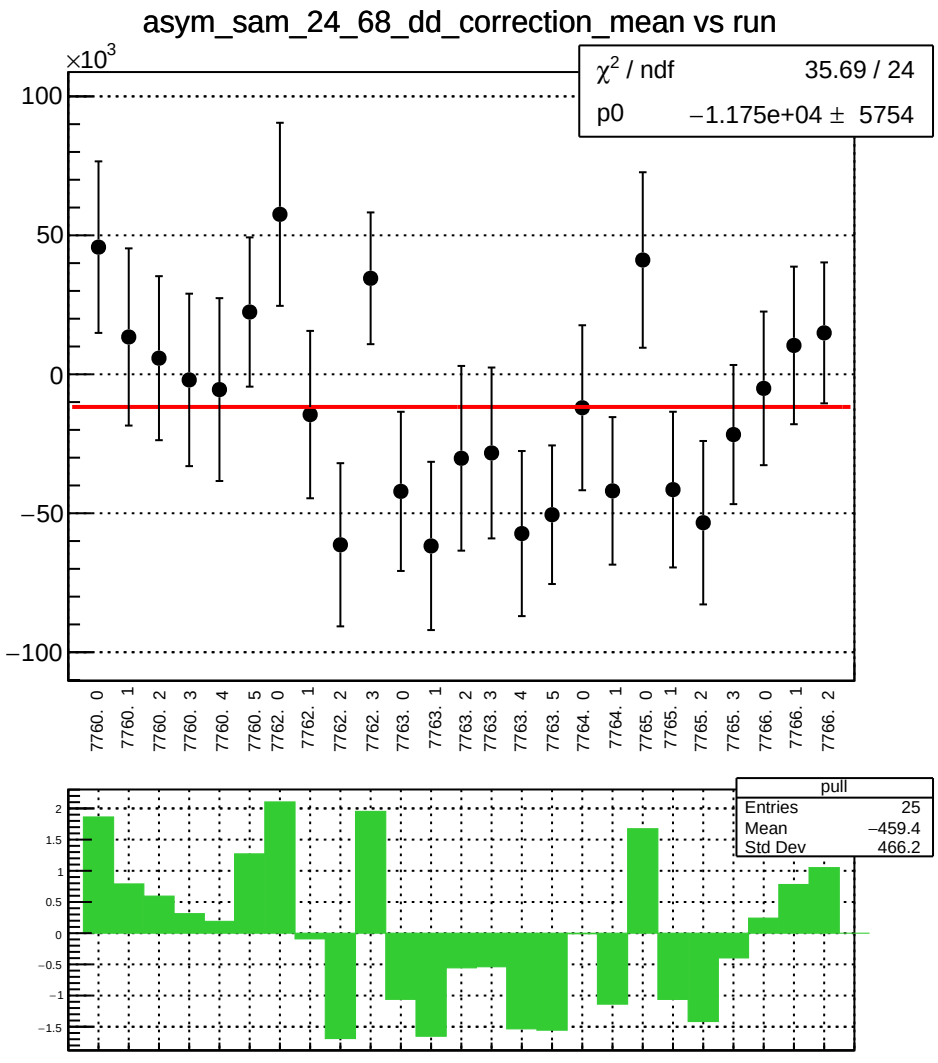

asym_sam_15_37_dd_mean vs run
χ² / ndf 35.6 / 24
p0 −4366 ± 2184
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 503.5
Std Dev 497.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

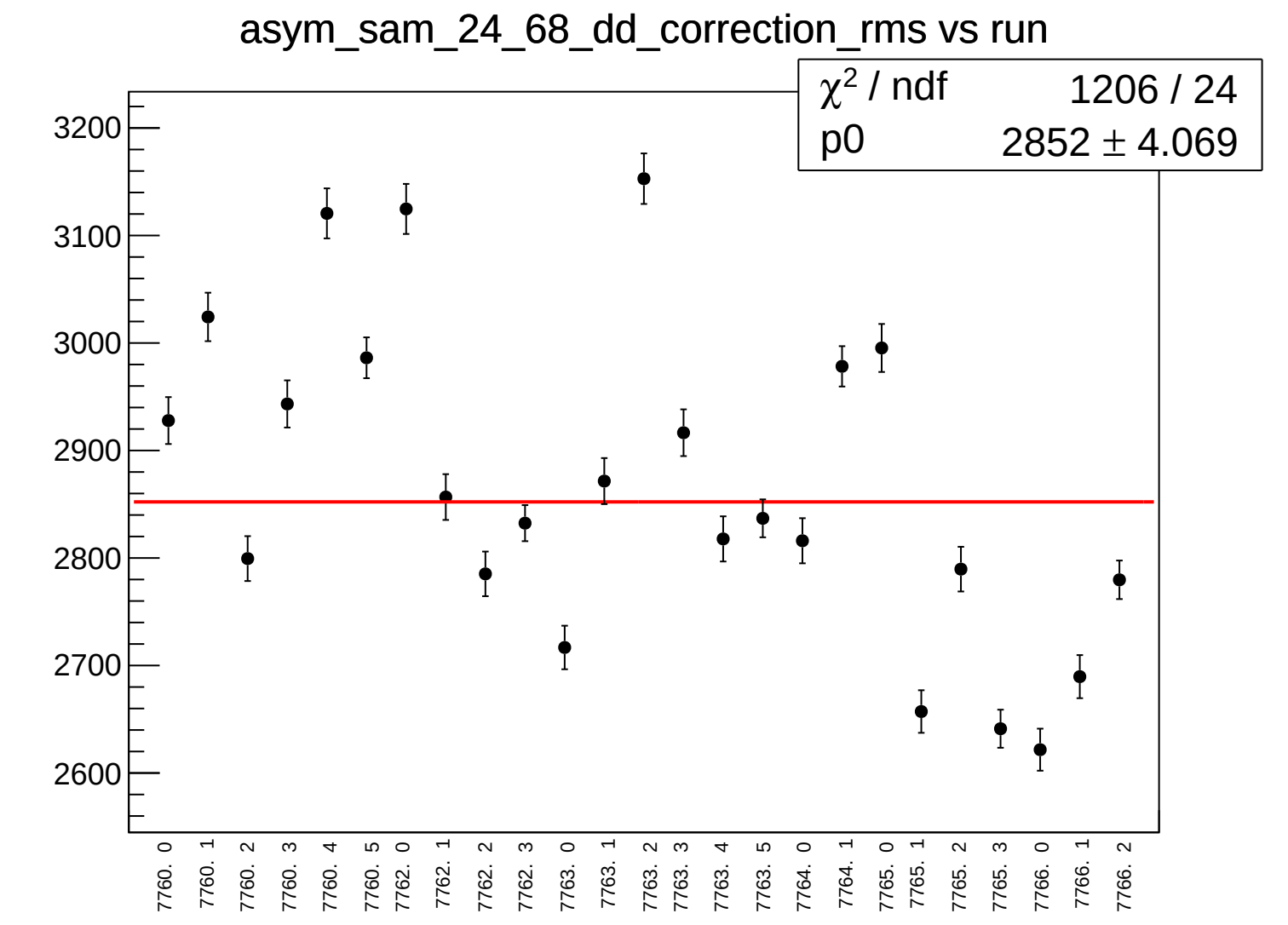

pull1D
Entries 25
Mean −0.004586
Std Dev 1.193
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

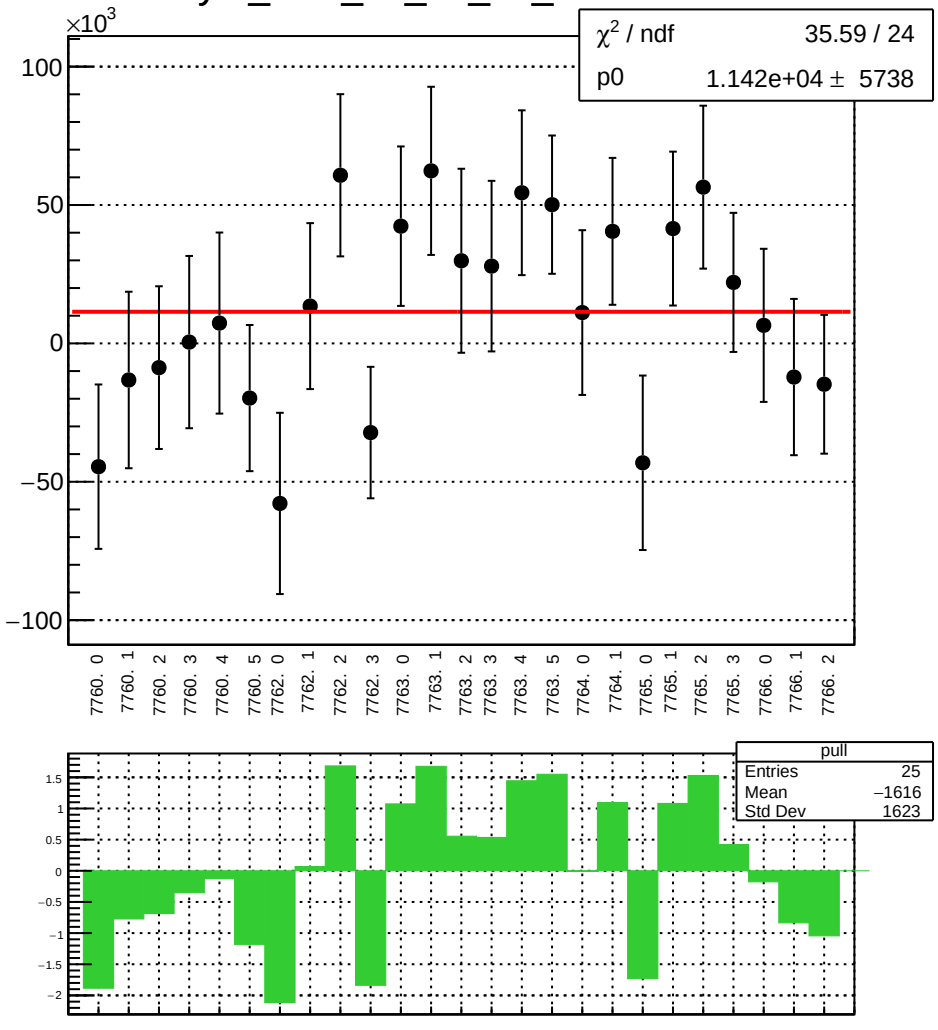

asym_sam_15_37_dd_rms vs run
χ² / ndf 1357 / 24
p0 1082 ± 1.544
1200
1150
1100
1050
1000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

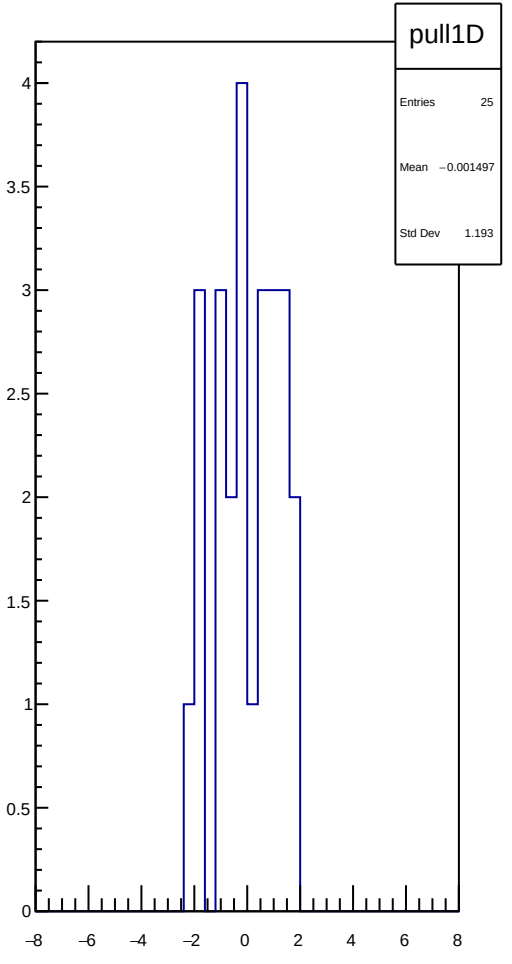

dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 37.97 / 24
p0 −69.82 ± 258.7
4000
2000
0
−2000
−4000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 29.12
Std Dev 20.5
2
1
0
−1
−2
pull1D
Entries 25
Mean −0.0164
Std Dev 1.232
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

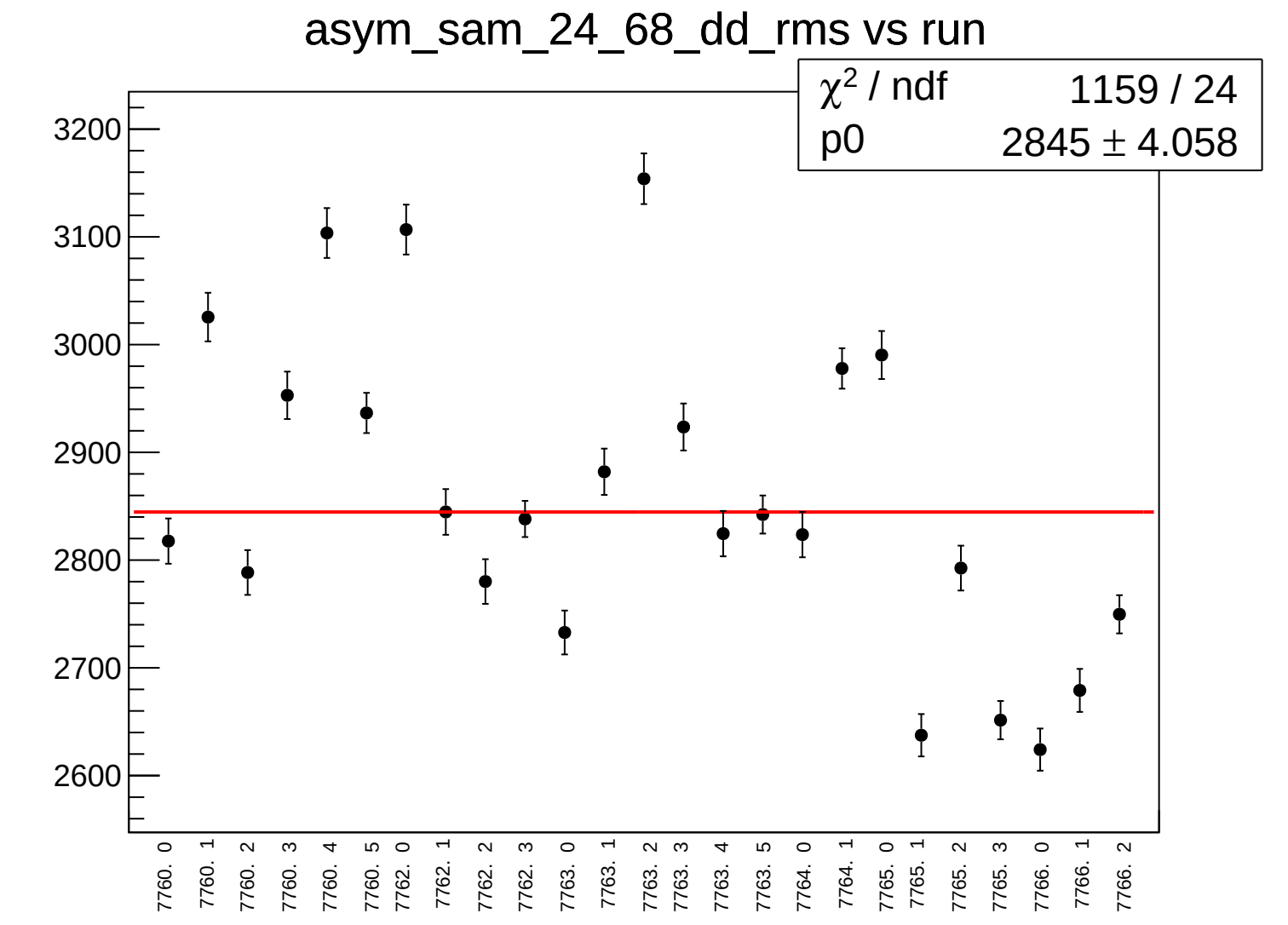

dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 4302 / 24
p0 127.8 ± 0.1829
200
190
180
170
160
150
140
130
120
110
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

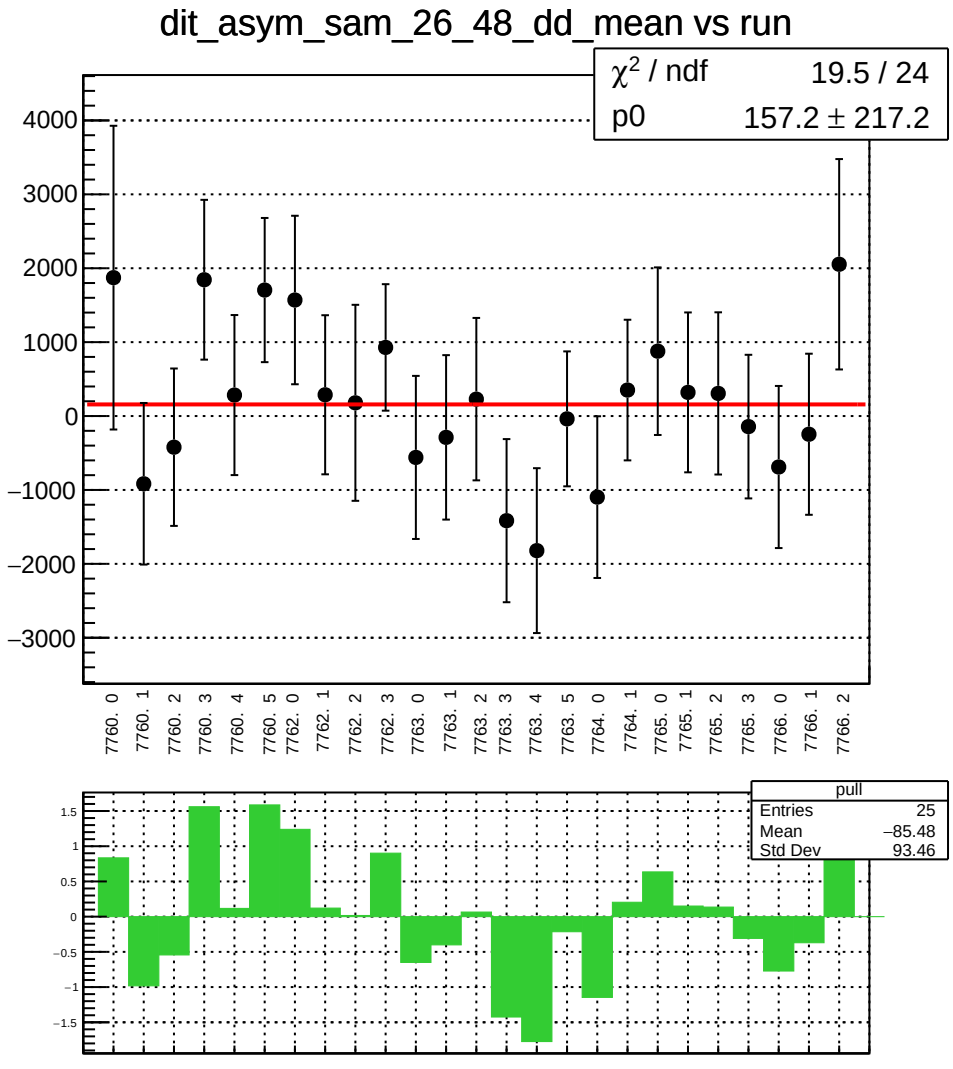

asym_sam_24_68_dd_correction_mean vs run
×10^3
χ² / ndf 35.69 / 24
p0 −1.175e+04 ± 5754
100
50
0
−50
−100
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −459.4
Std Dev 466.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 25
Mean 0.00512
Std Dev 1.195
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

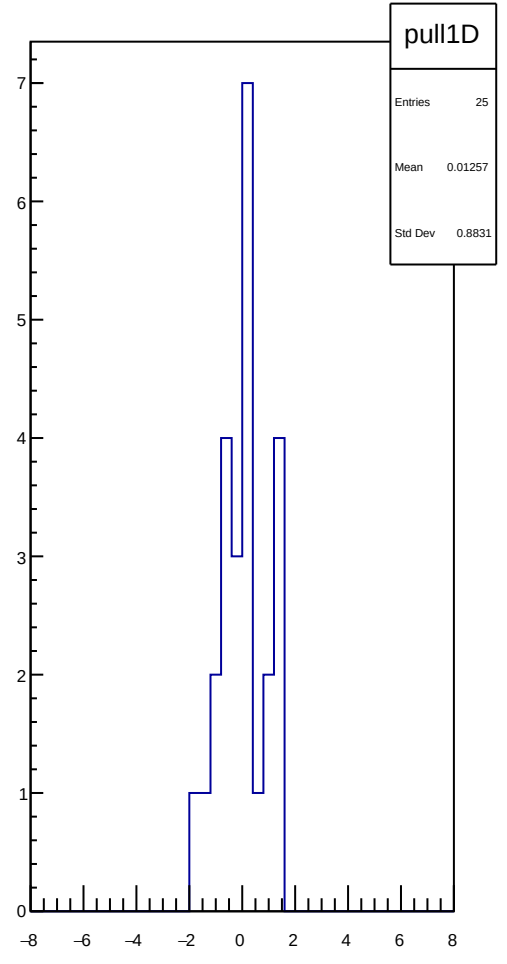

asym_sam_24_68_dd_correction_rms vs run
χ² / ndf 1206 / 24
p0 2852 ± 4.069
3200
3100
3000
2900
2800
2700
2600
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

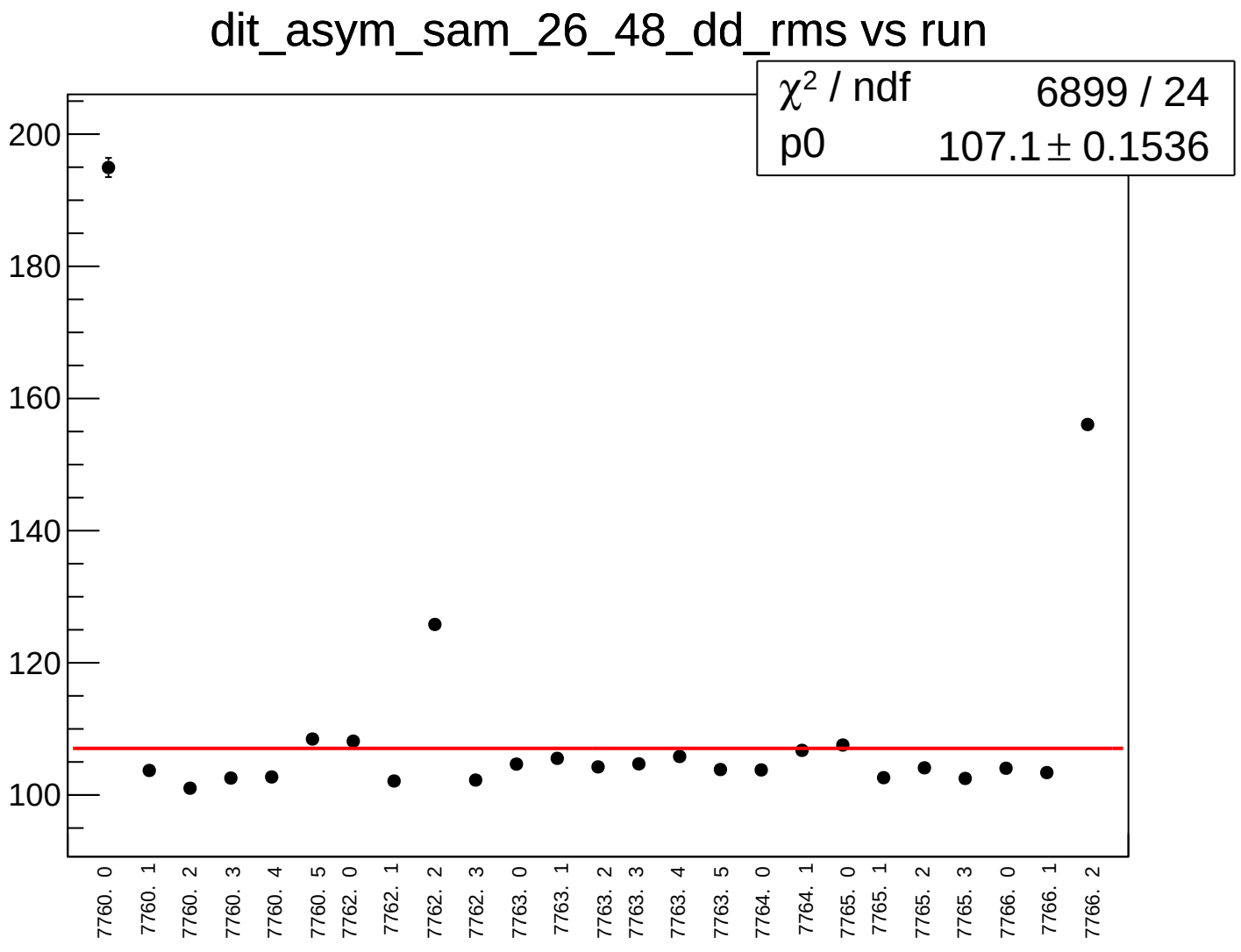

asym_sam_24_68_dd_mean vs run
×10^3
χ² / ndf 35.59 / 24
p0 1.142e+04 ± 5738
100
50
0
−50
−100
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −1616
Std Dev 1623
1.5
1
0.5
0
−0.5
−1
−1.5
−2

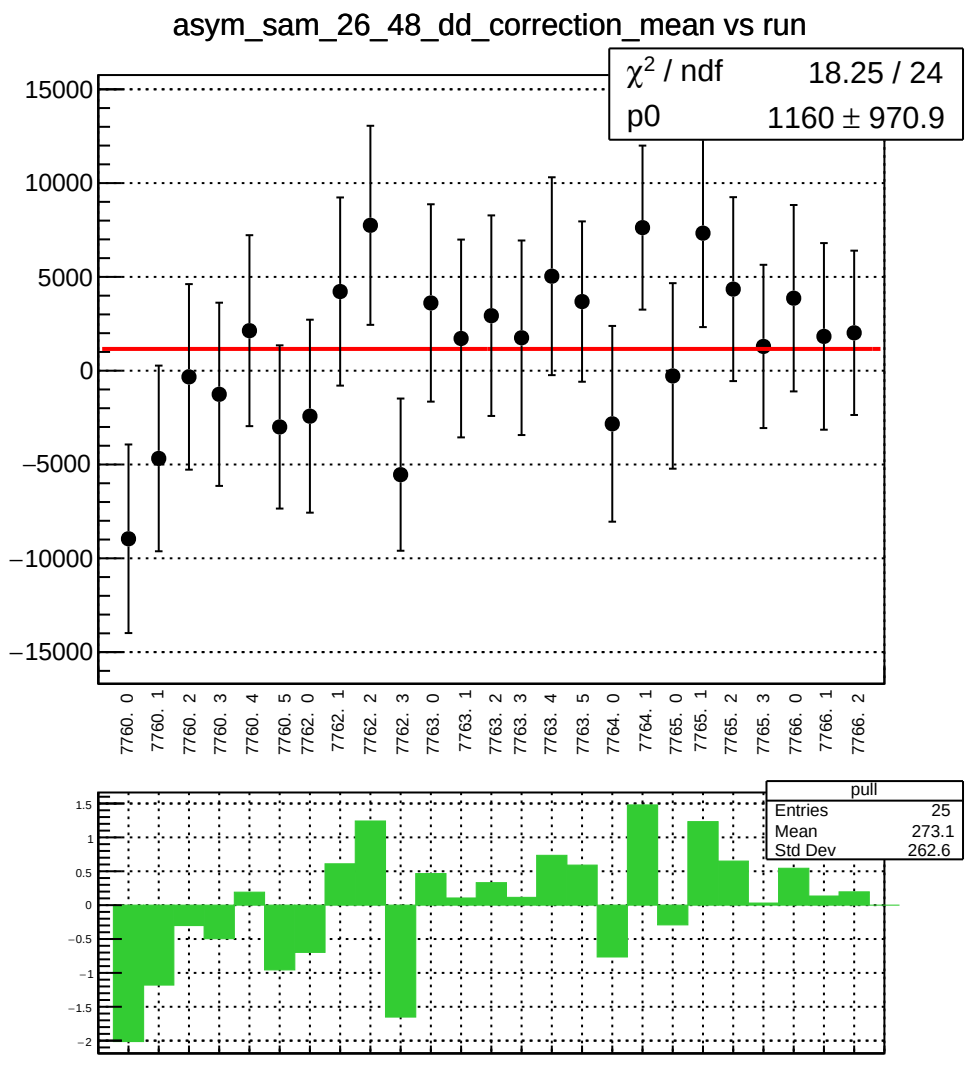

pull1D
Entries 25
Mean −0.001497
Std Dev 1.193
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

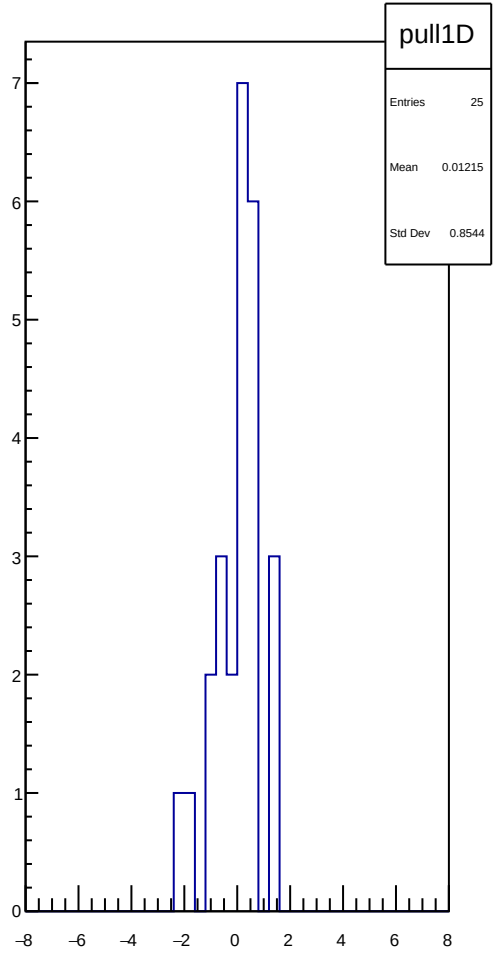

asym_sam_24_68_dd_rms vs run
χ² / ndf 1159 / 24
p0 2845 ± 4.058
3200
3100
3000
2900
2800
2700
2600
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

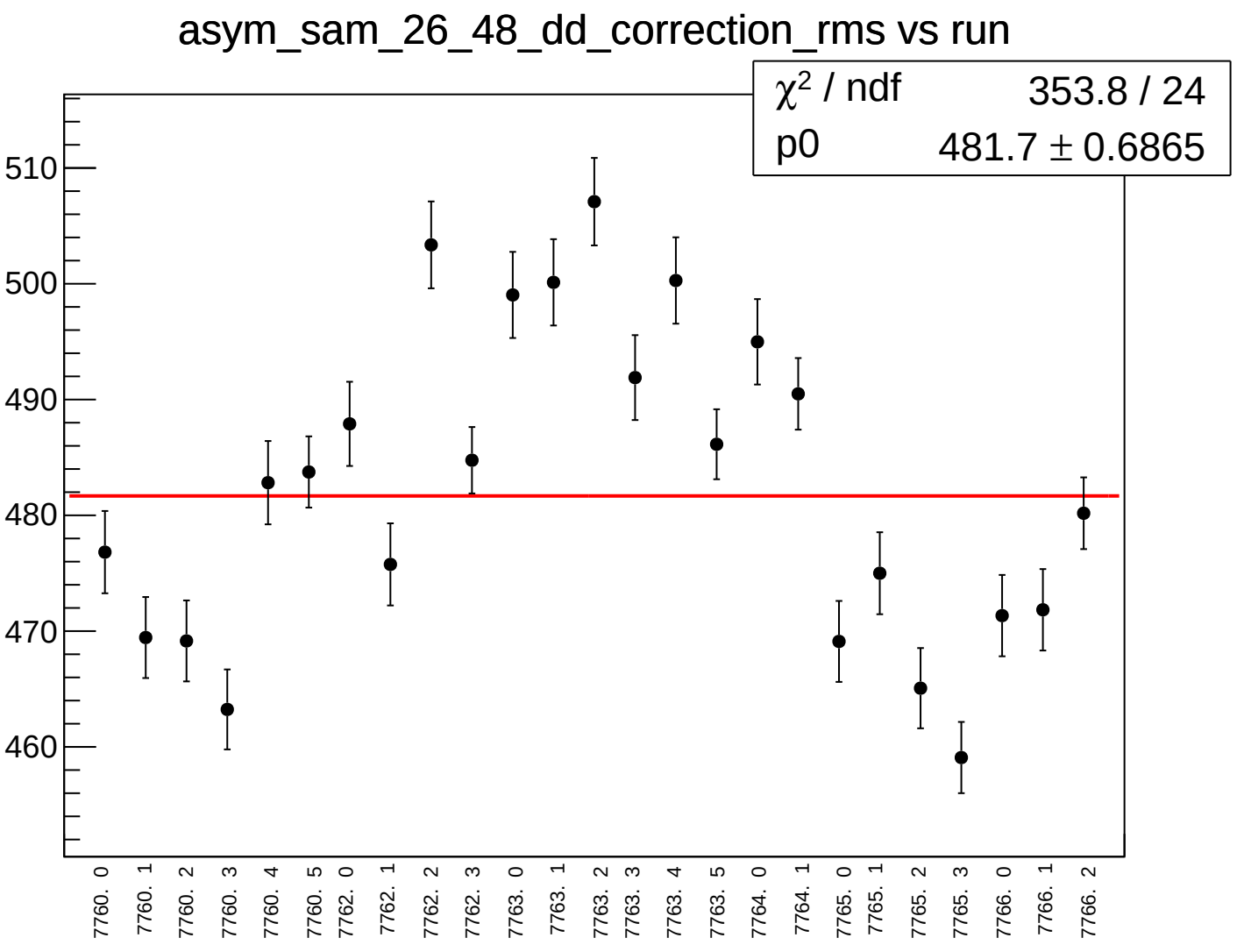

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 19.5 / 24
p0 157.2 ± 217.2
4000
3000
2000
1000
0
−1000
−2000
−3000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −85.48
Std Dev 93.46
1.5
1
0.5
0
−0.5
−1
−1.5

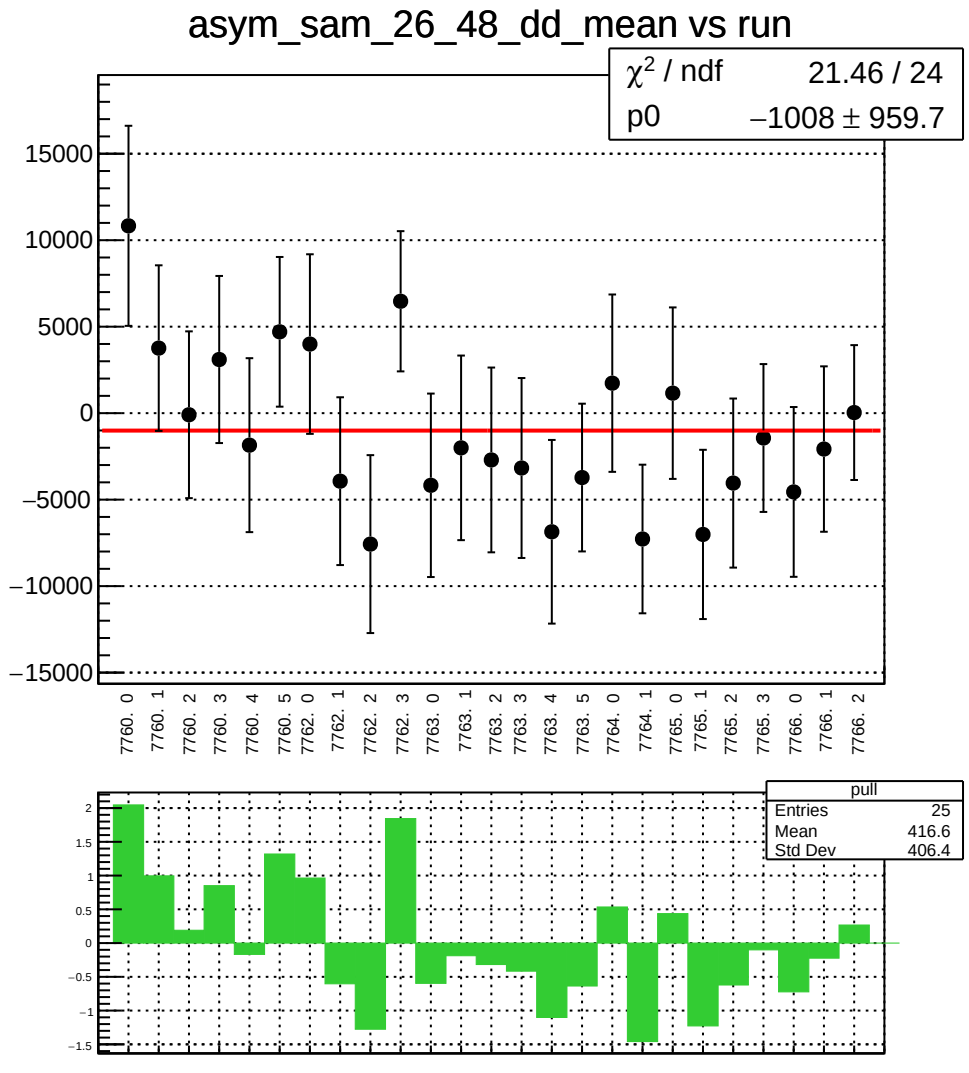

pull1D
Entries 25
Mean 0.01257
Std Dev 0.8831
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

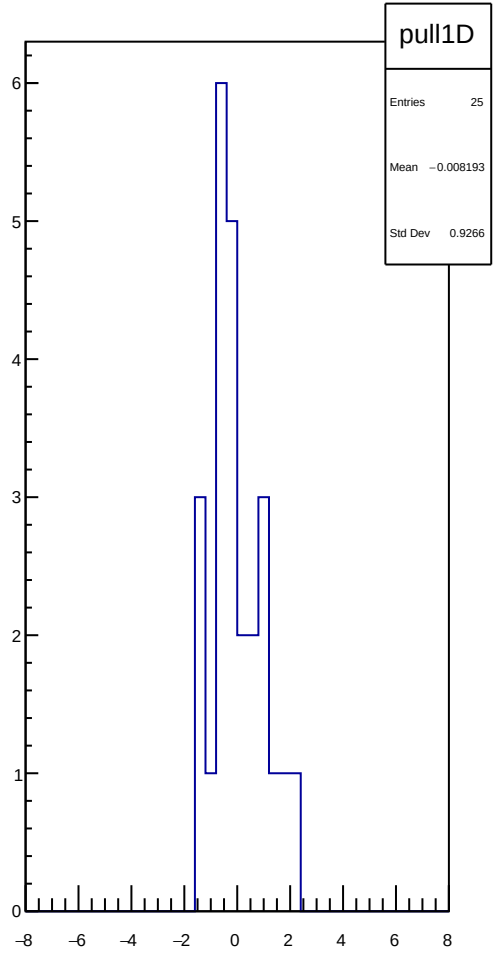

dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 6899 / 24
p0 107.1 ± 0.1536
200
180
160
140
120
100
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

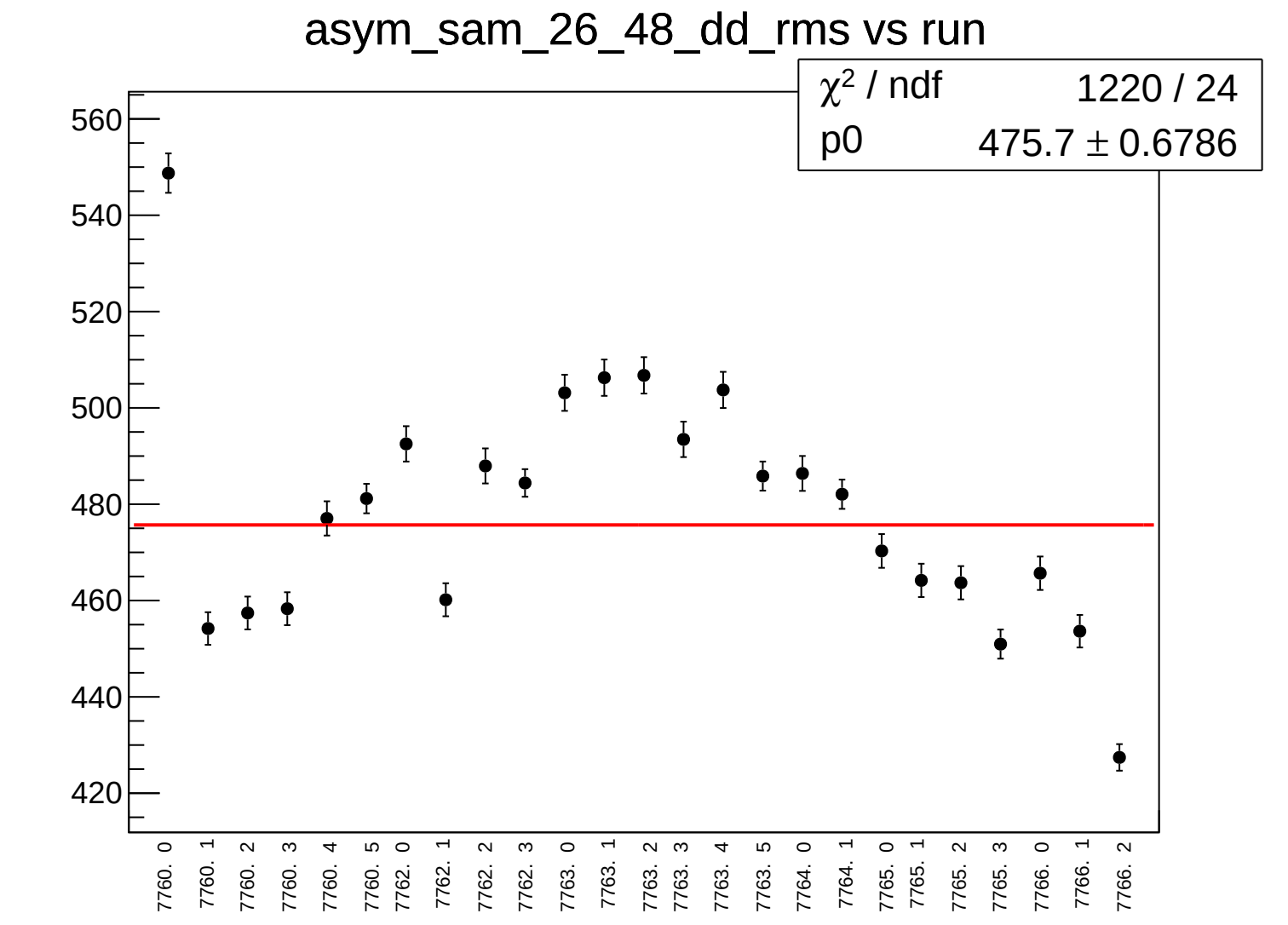

asym_sam_26_48_dd_correction_mean vs run
χ² / ndf 18.25 / 24
p0 1160 ± 970.9
15000
10000
5000
0
−5000
−10000
−15000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 273.1
Std Dev 262.6
1.5
1
0.5
0
−0.5
−1
−1.5
−2

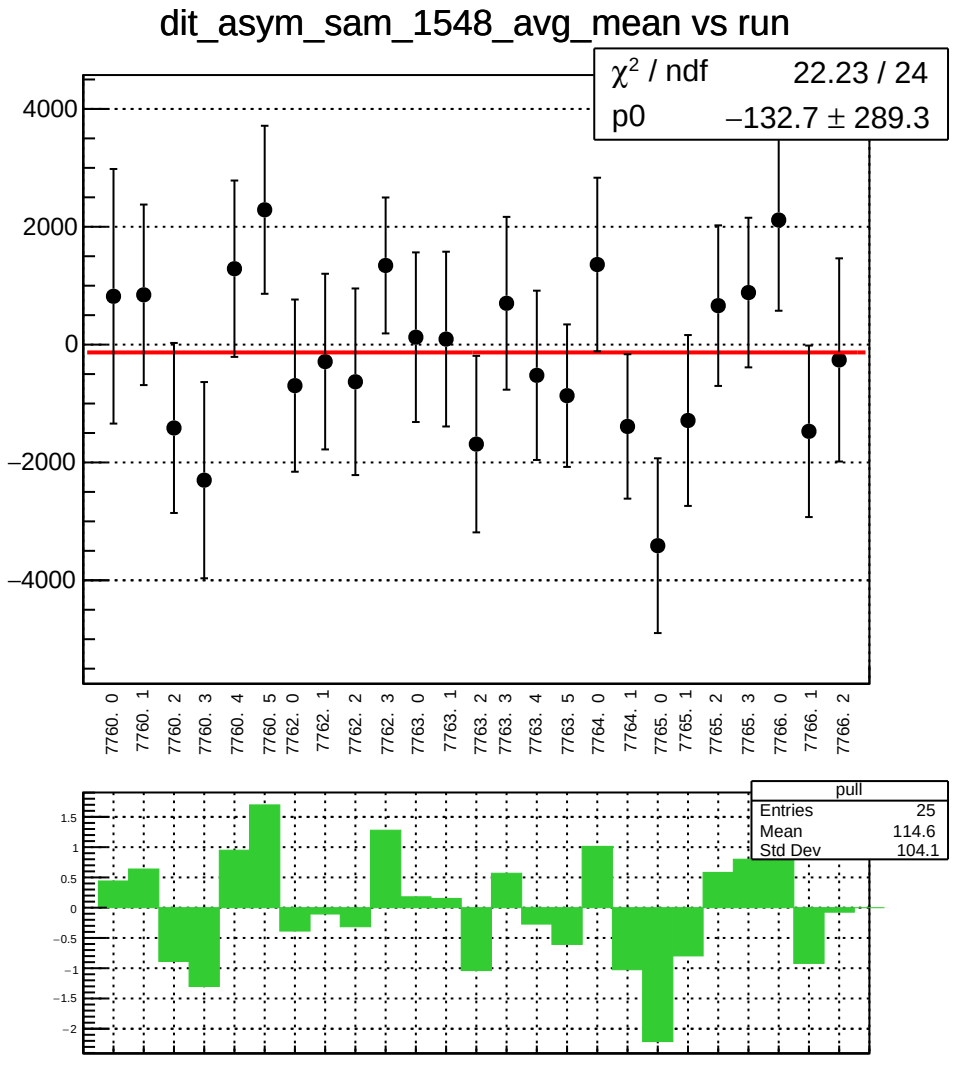

pull1D
Entries 25
Mean 0.01215
Std Dev 0.8544
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

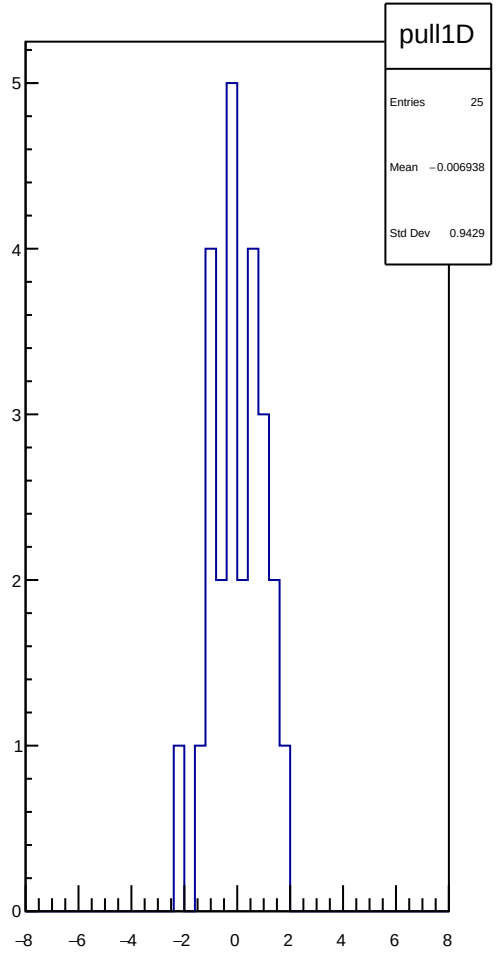

asym_sam_26_48_dd_correction_rms vs run
χ² / ndf 353.8 / 24
p0 481.7 ± 0.6865
510
500
490
480
470
460
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

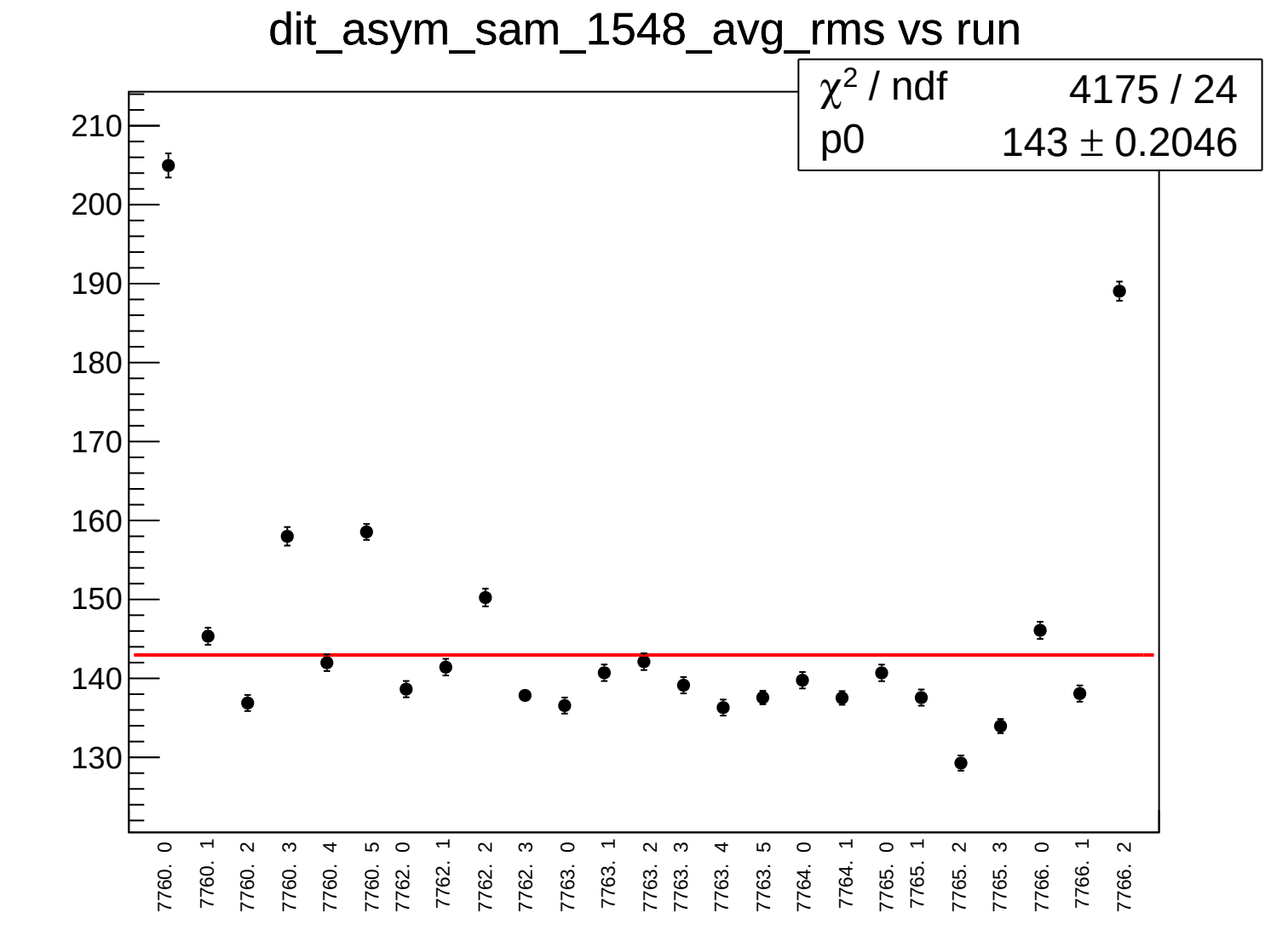

asym_sam_26_48_dd_mean vs run
χ² / ndf 21.46 / 24
p0 −1008 ± 959.7
15000
10000
5000
0
−5000
−10000
−15000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 416.6
Std Dev 406.4
2
1.5
1
0.5
0
−0.5
−1
−1.5

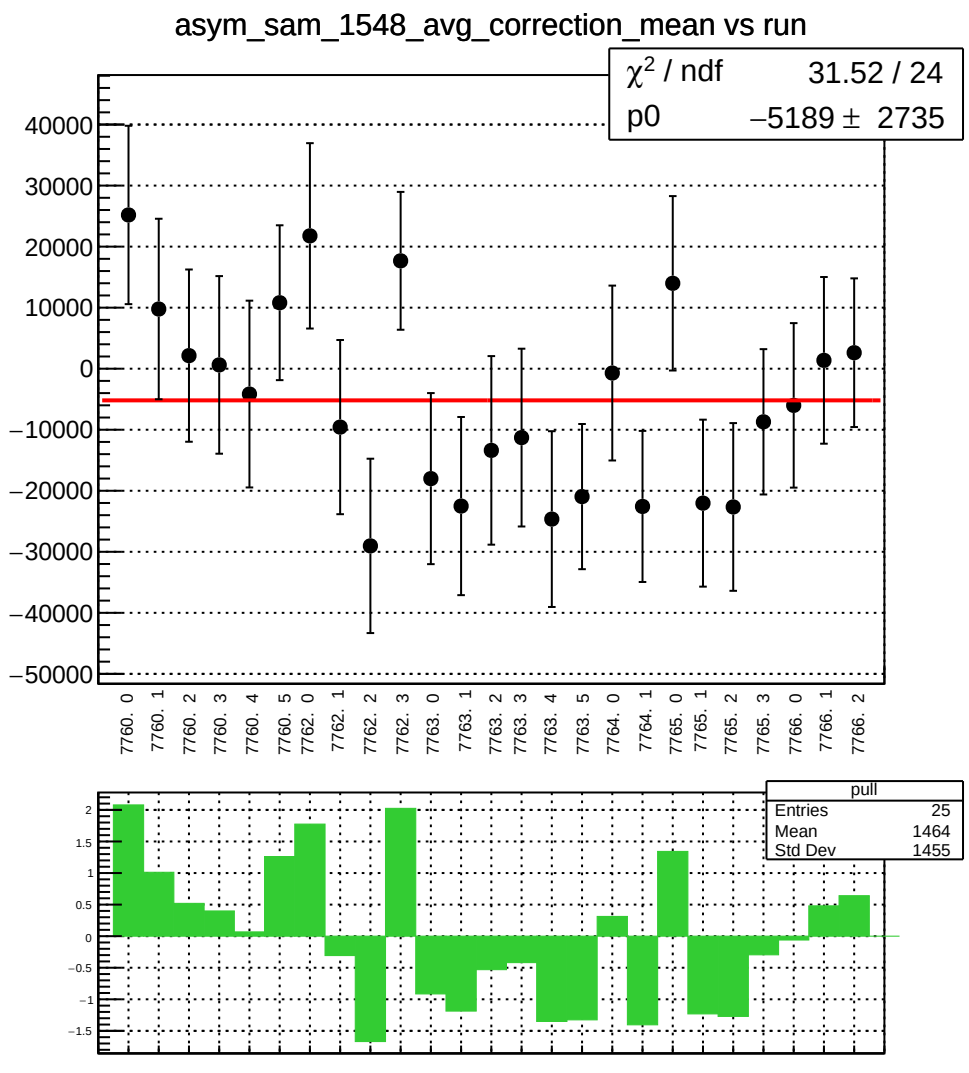

pull1D
Entries 25
Mean −0.008193
Std Dev 0.9266
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

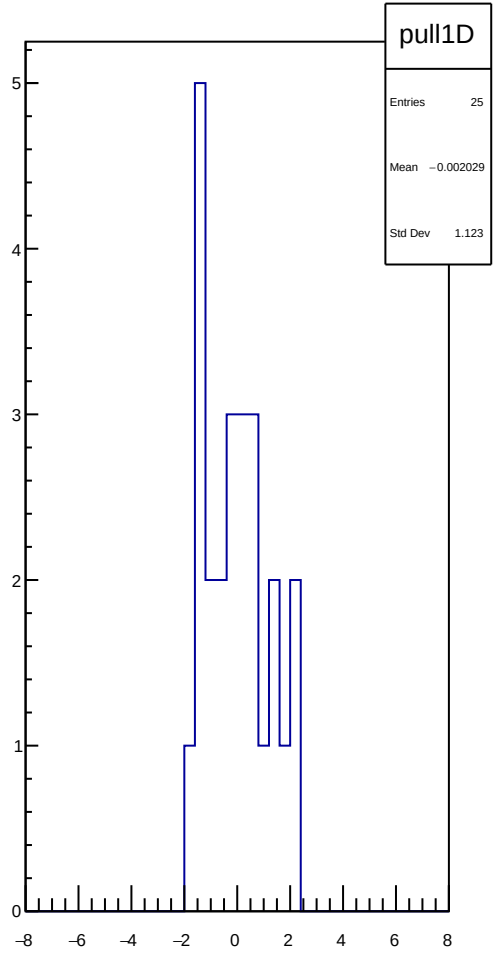

asym_sam_26_48_dd_rms vs run
χ² / ndf 1220 / 24
p0 475.7 ± 0.6786
560
540
520
500
480
460
440
420
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

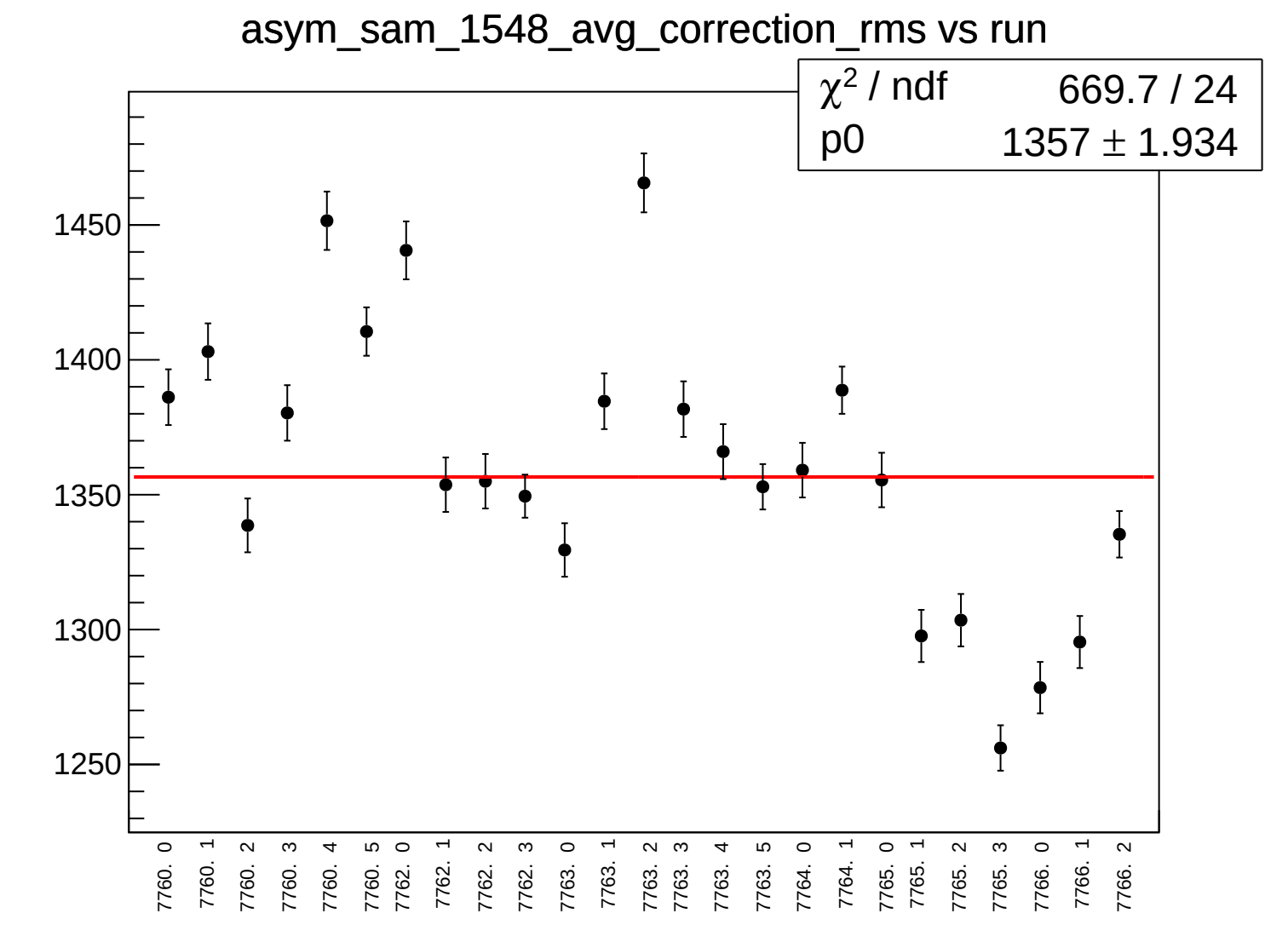

dit_asym_sam_1548_avg_mean vs run
χ² / ndf 22.23 / 24
p0 −132.7 ± 289.3
4000
2000
0
−2000
−4000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 114.6
Std Dev 104.1
1.5
1
0.5
0
−0.5
−1
−1.5
−2

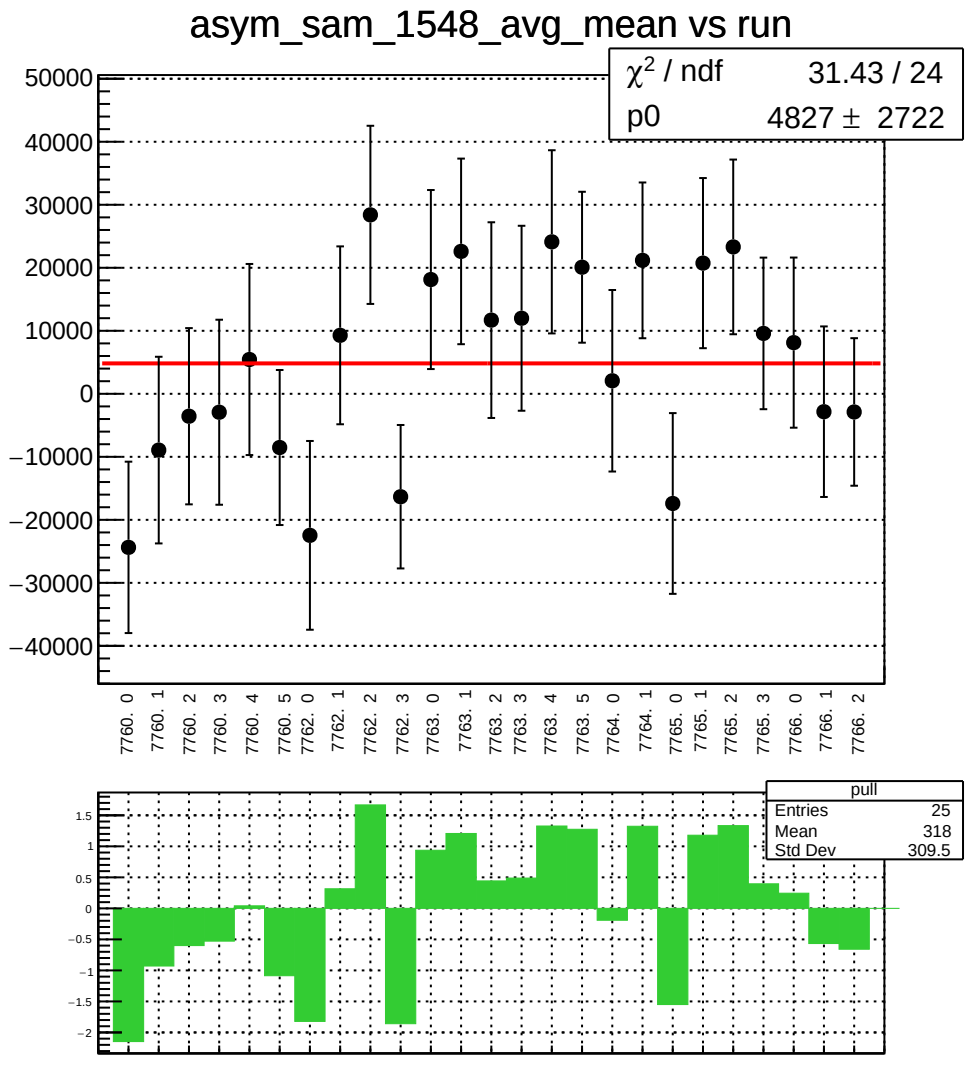

pull1D
Entries 25
Mean −0.006938
Std Dev 0.9429
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

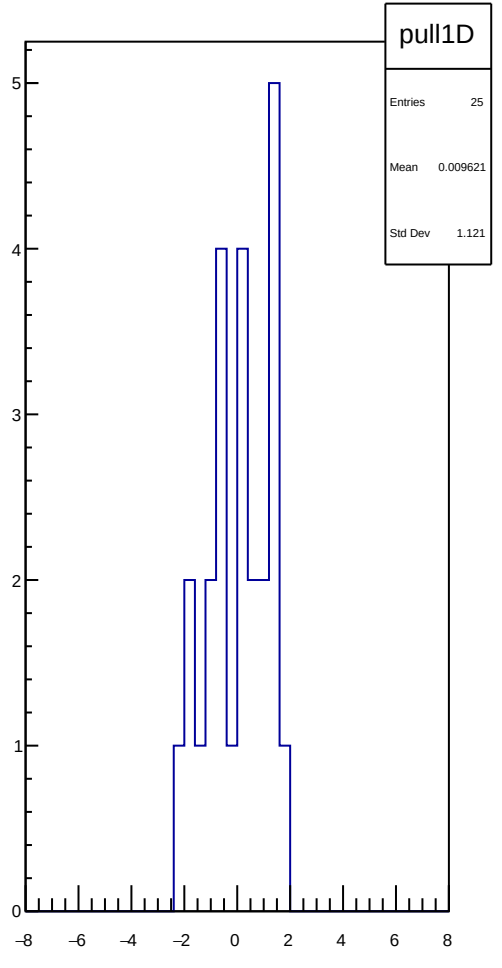

dit_asym_sam_1548_avg_rms vs run
χ² / ndf 4175 / 24
p0 143 ± 0.2046
210
200
190
180
170
160
150
140
130
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

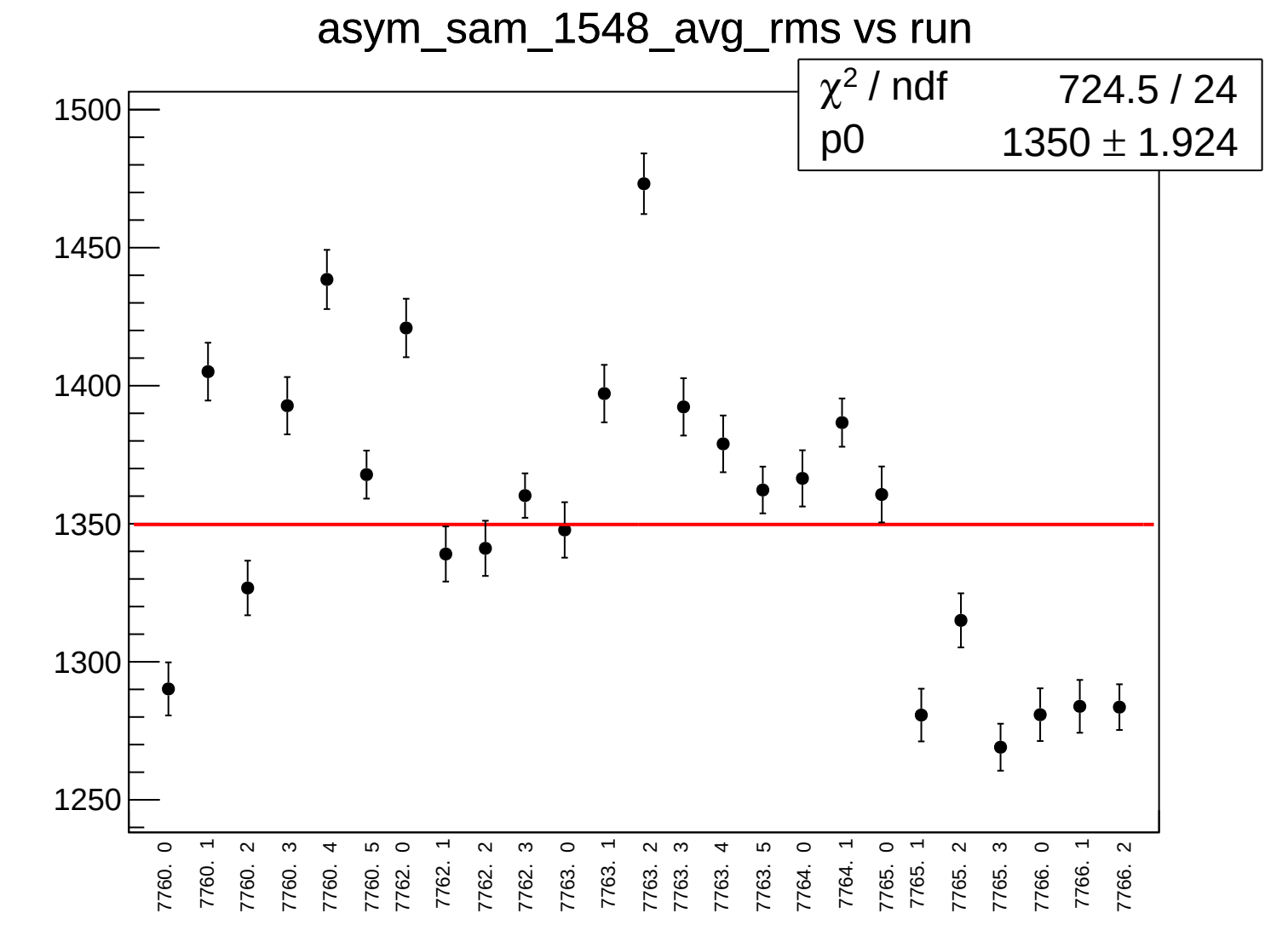

asym_sam_1548_avg_correction_mean vs run
χ² / ndf 31.52 / 24
p0 −5189 ± 2735
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 1464
Std Dev 1455
2
1.5
1
0.5
0
−0.5
−1
−1.5

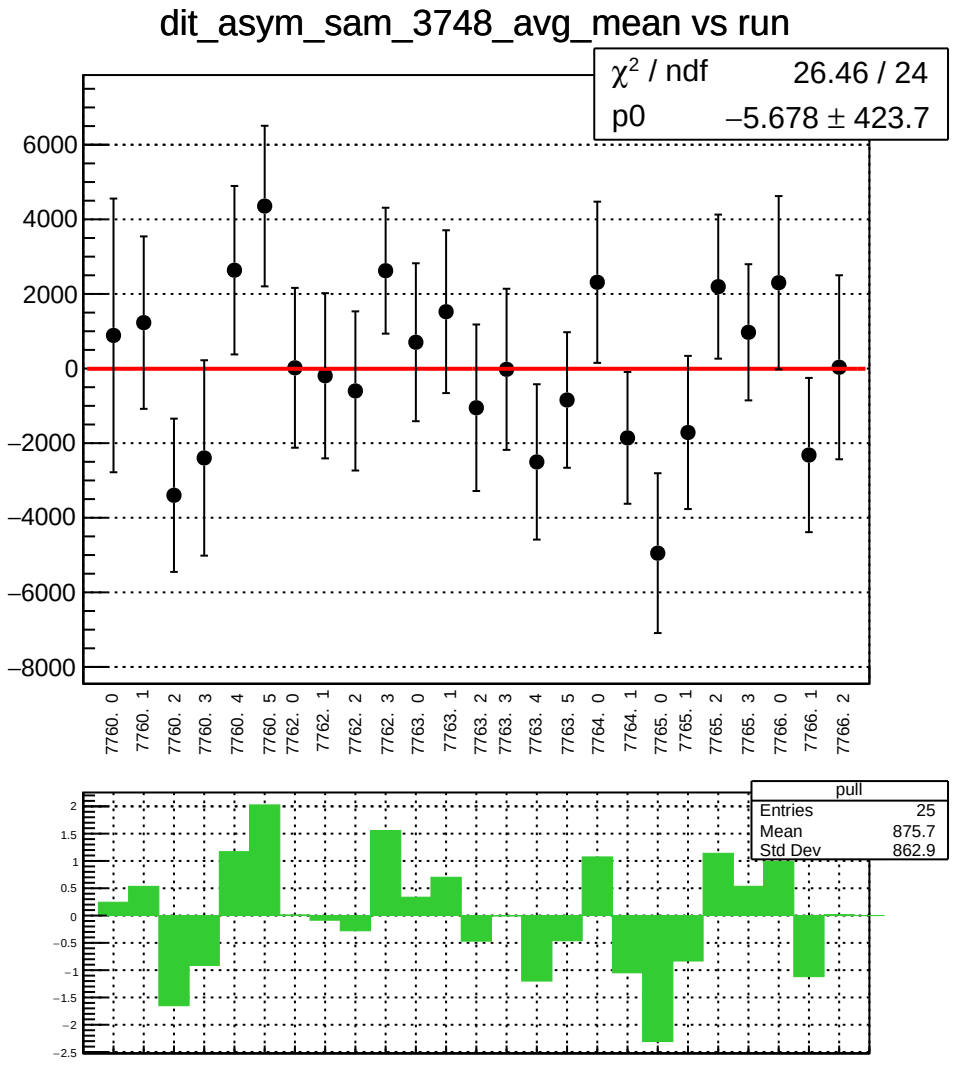

pull1D
Entries 25
Mean −0.002029
Std Dev 1.123
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

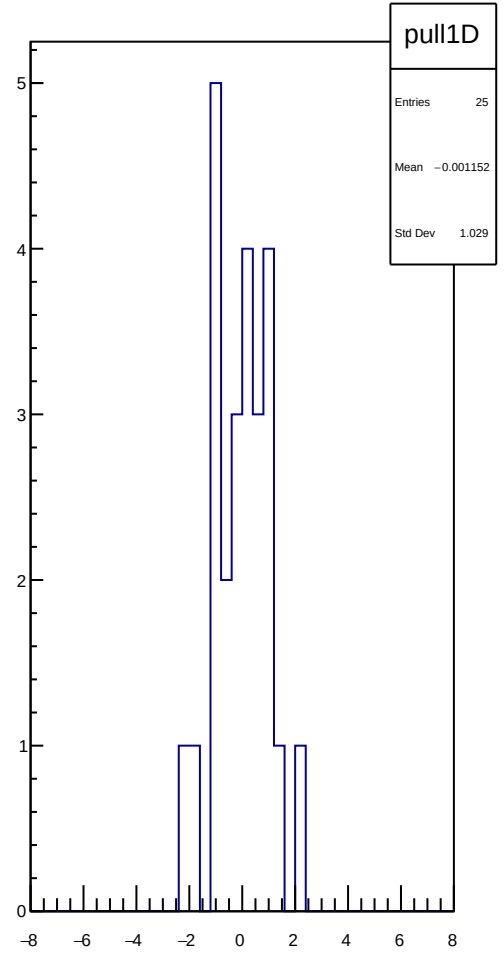

asym_sam_1548_avg_correction_rms vs run
χ² / ndf 669.7 / 24
p0 1357 ± 1.934
1450
1400
1350
1300
1250
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

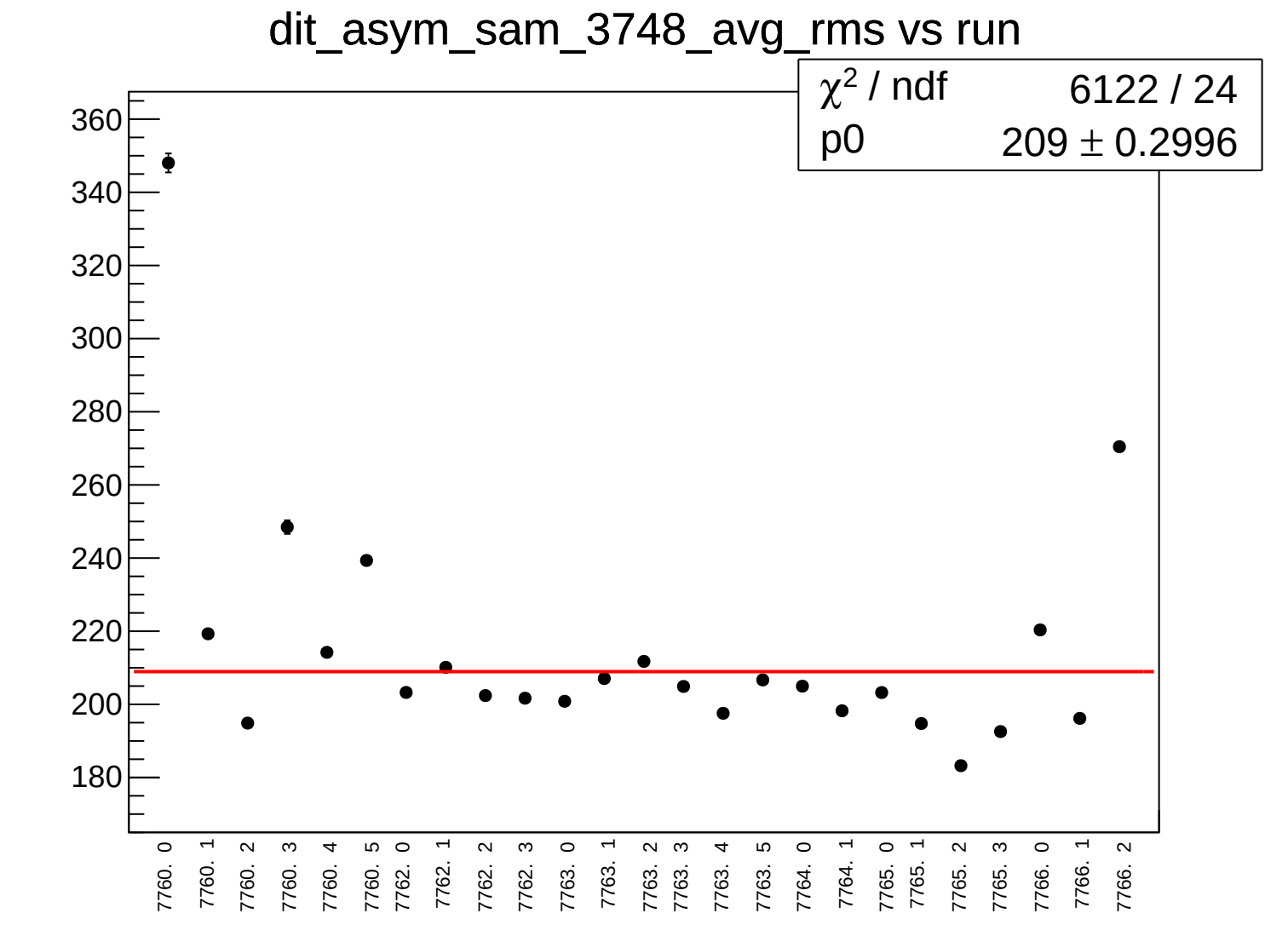

asym_sam_1548_avg_mean vs run
χ² / ndf 31.43 / 24
p0 4827 ± 2722
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 318
Std Dev 309.5
1.5
1
0.5
0
−0.5
−1
−1.5
−2

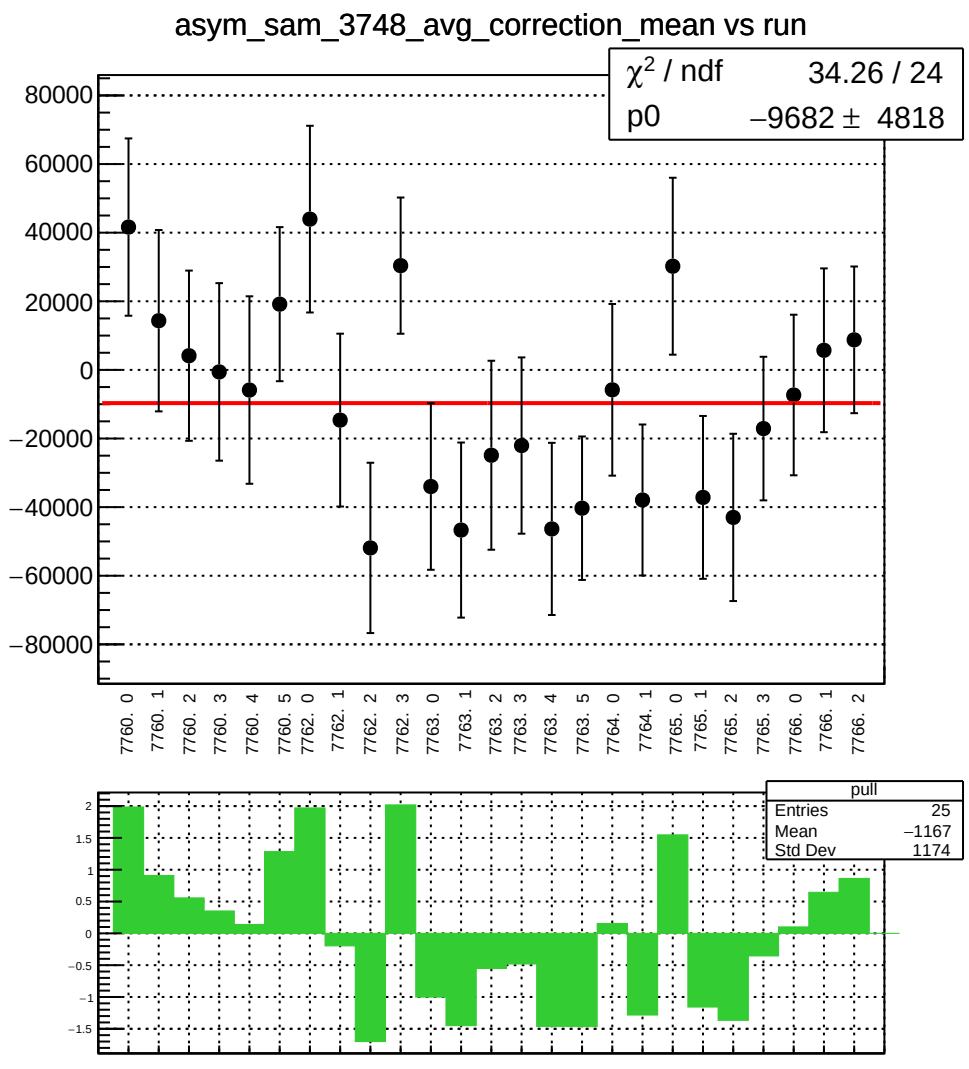

pull1D
Entries 25
Mean 0.009621
Std Dev 1.121
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

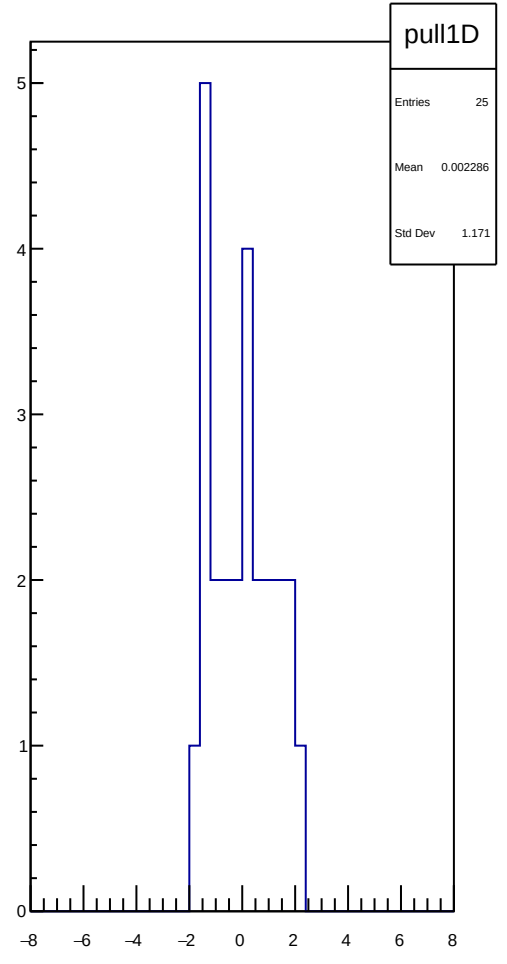

asym_sam_1548_avg_rms vs run
χ² / ndf 724.5 / 24
p0 1350 ± 1.924
1500
1450
1400
1350
1300
1250
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

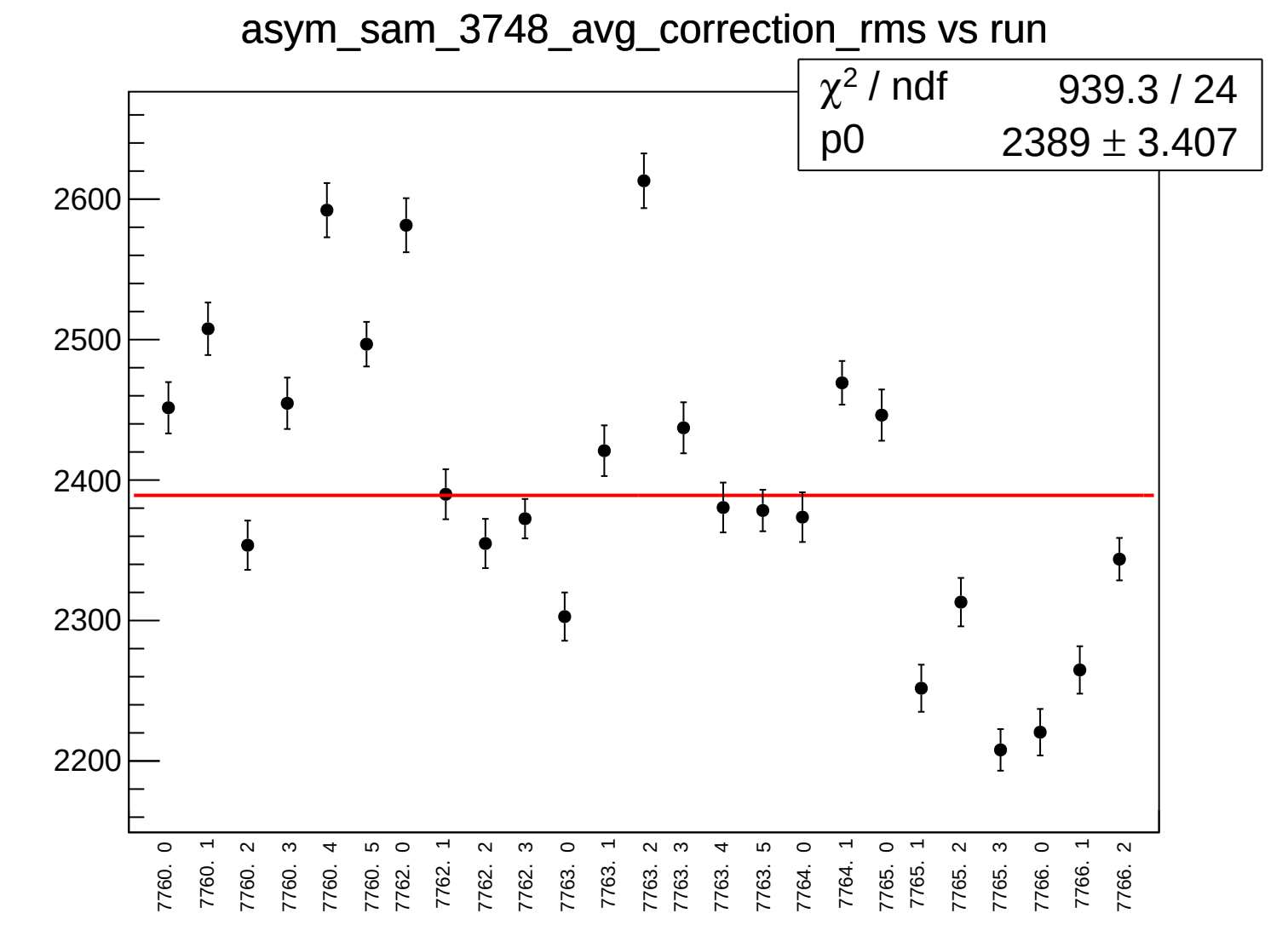

dit_asym_sam_3748_avg_mean vs run
χ² / ndf 26.46 / 24
p0 −5.678 ± 423.7
6000
4000
2000
0
−2000
−4000
−6000
−8000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 875.7
Std Dev 862.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

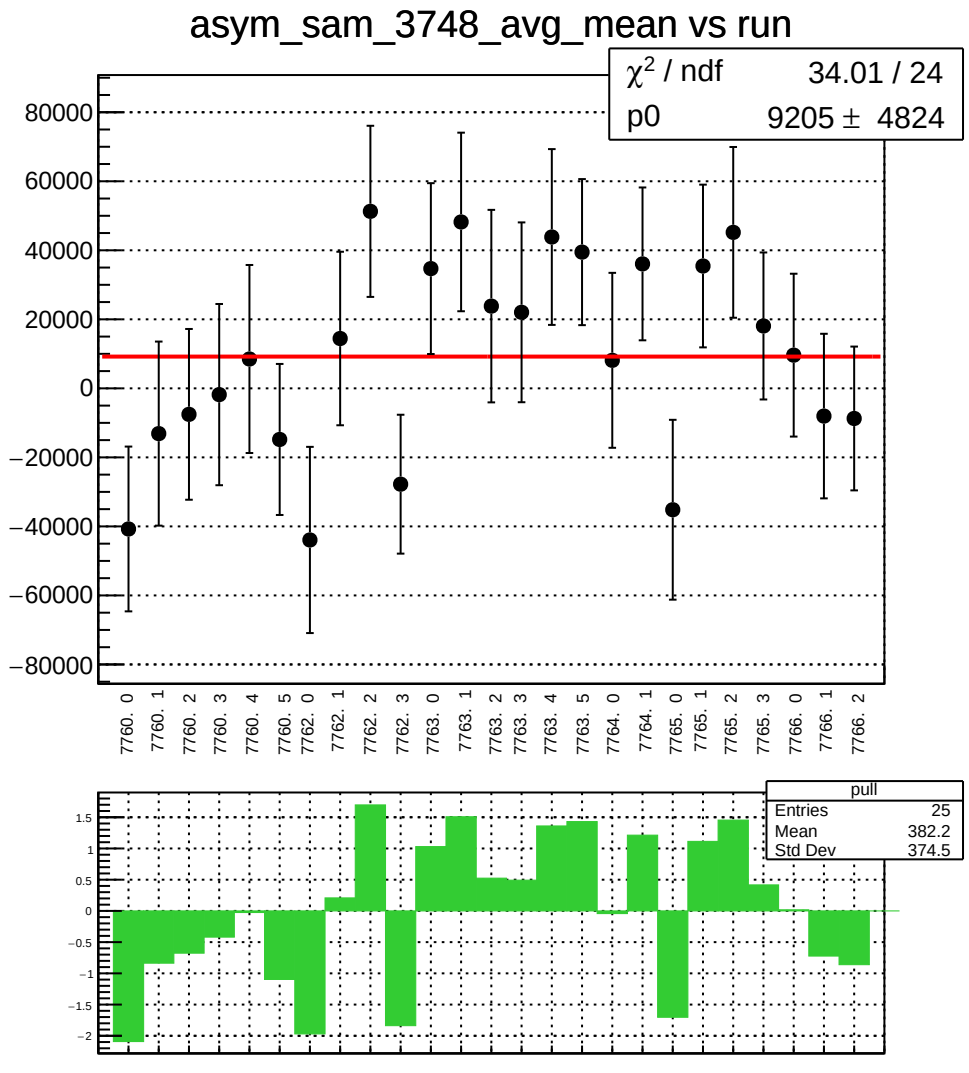

pull1D
Entries 25
Mean −0.001152
Std Dev 1.029
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

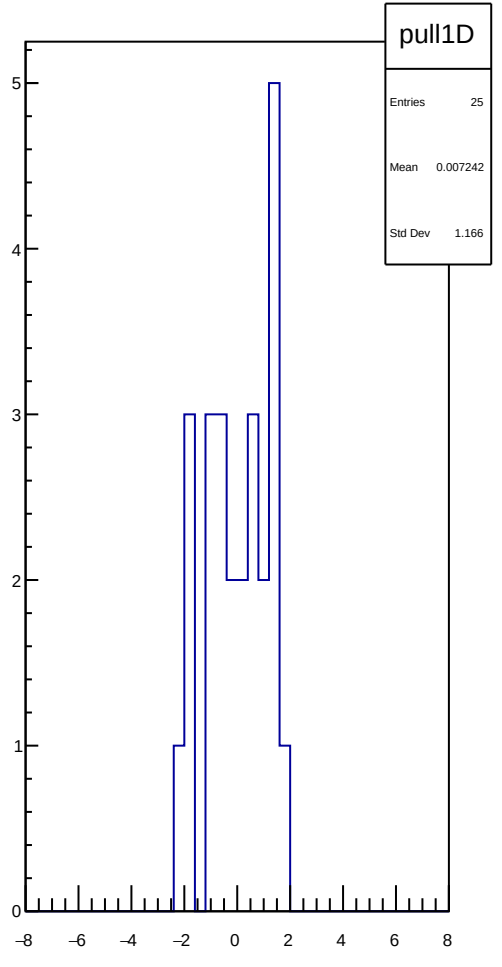

dit_asym_sam_3748_avg_rms vs run
χ² / ndf 6122 / 24
p0 209 ± 0.2996
360
340
320
300
280
260
240
220
200
180
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

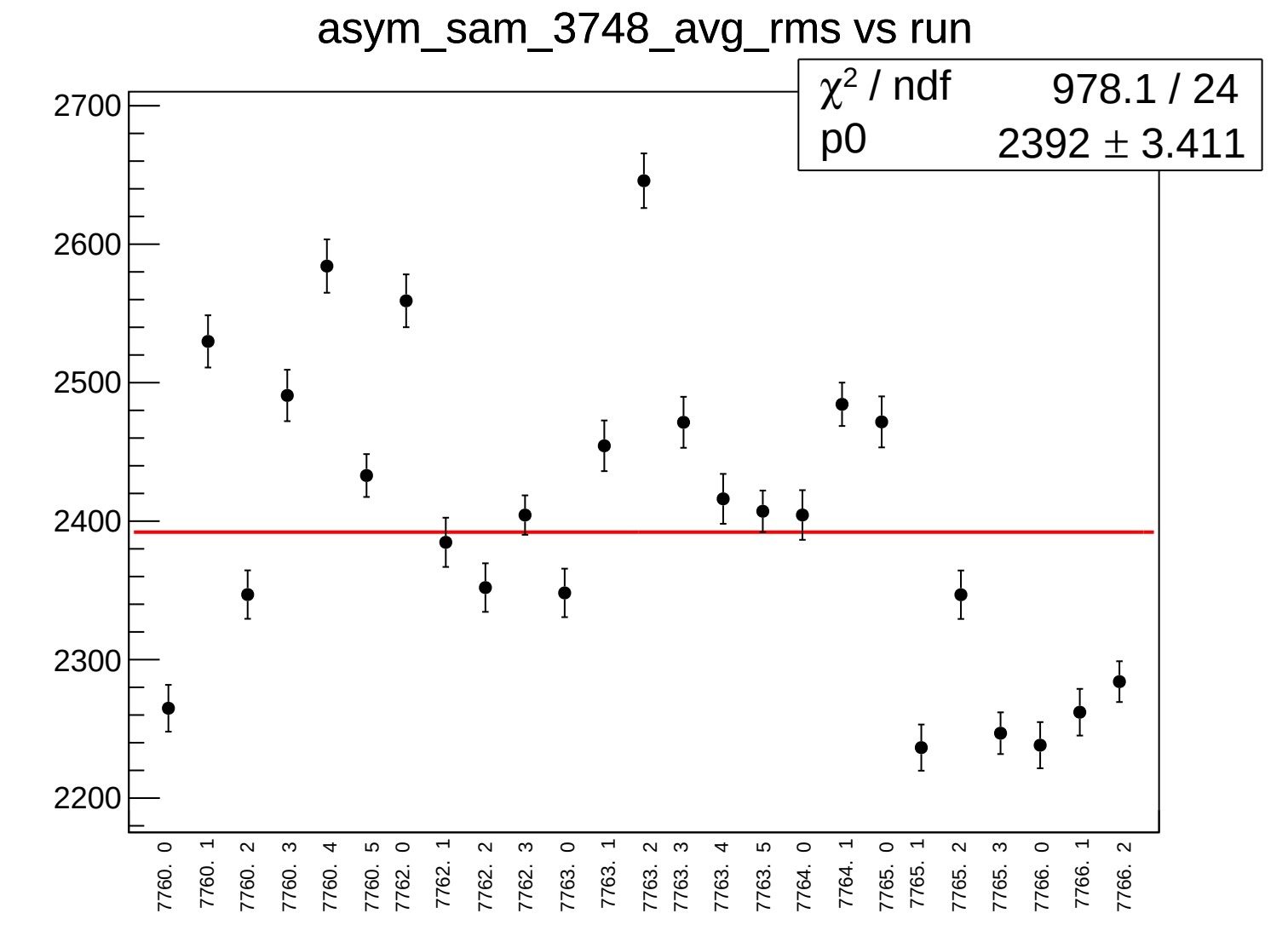

asym_sam_3748_avg_correction_mean vs run
χ² / ndf 34.26 / 24
p0 −9682 ± 4818
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −1167
Std Dev 1174
2
1.5
1
0.5
0
−0.5
−1
−1.5

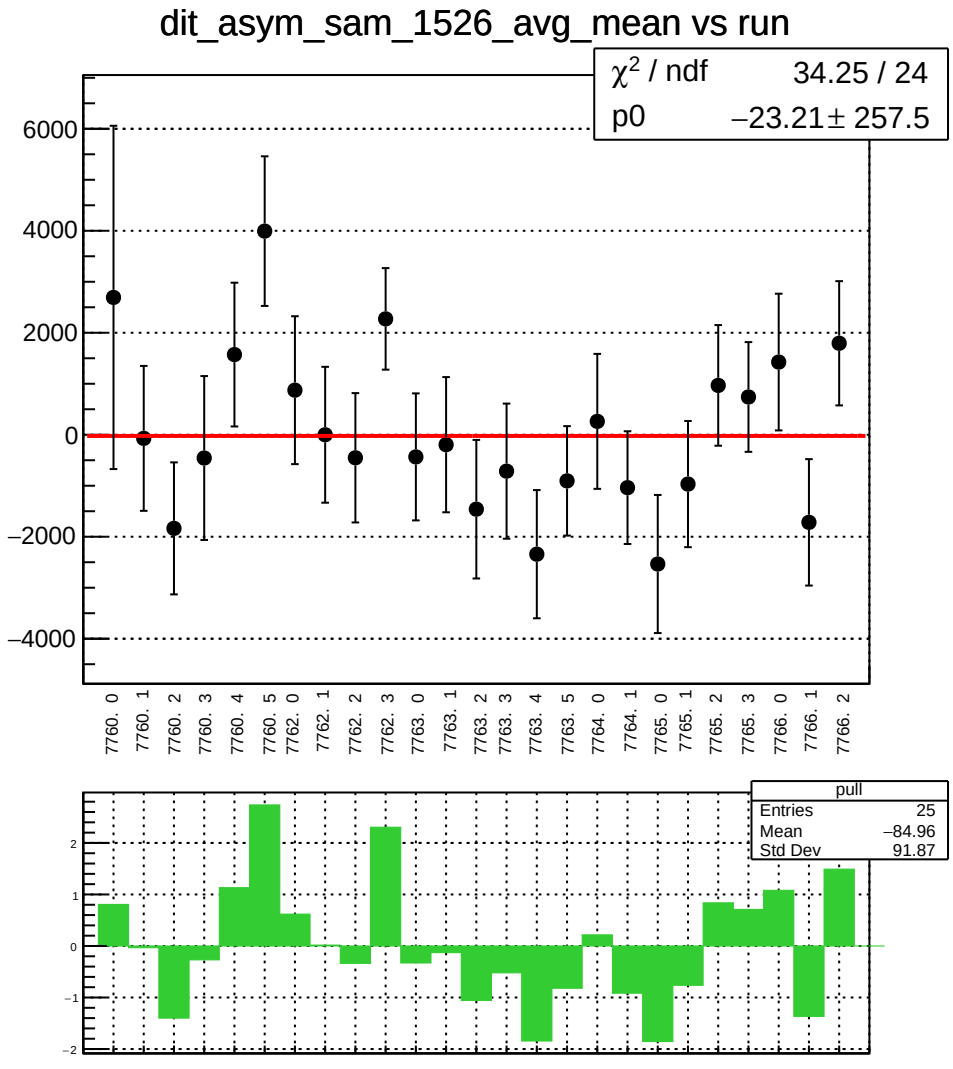

pull1D
Entries 25
Mean 0.002286
Std Dev 1.171
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

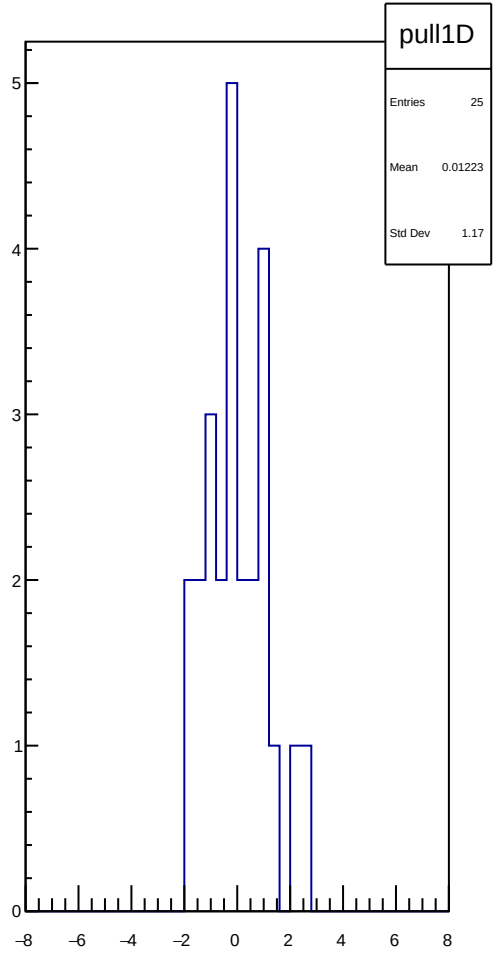

asym_sam_3748_avg_correction_rms vs run
χ² / ndf 939.3 / 24
p0 2389 ± 3.407
2600
2500
2400
2300
2200
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

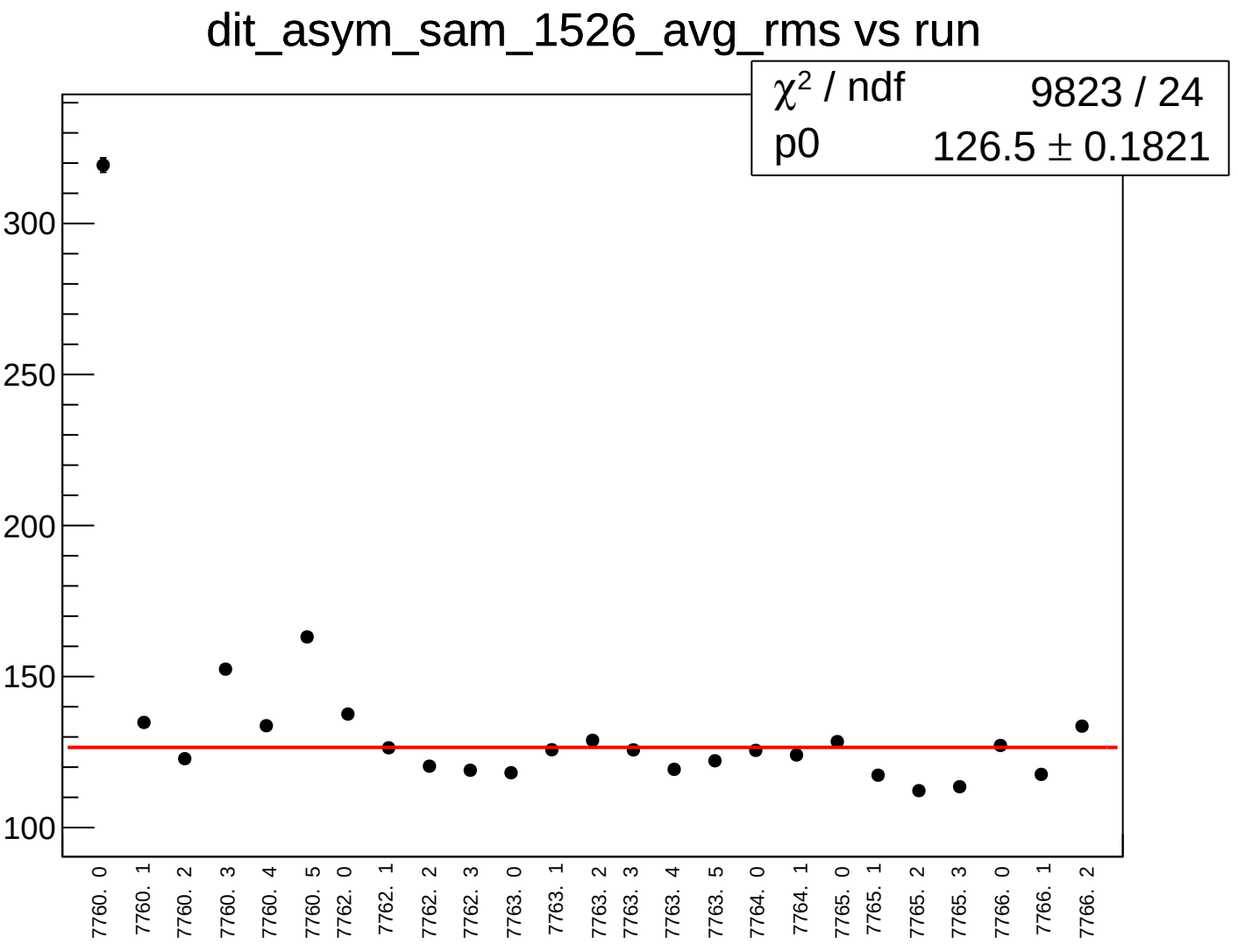

asym_sam_3748_avg_mean vs run
χ² / ndf 34.01 / 24
p0 9205 ± 4824
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 382.2
Std Dev 374.5
1.5
1
0.5
0
−0.5
−1
−1.5
−2

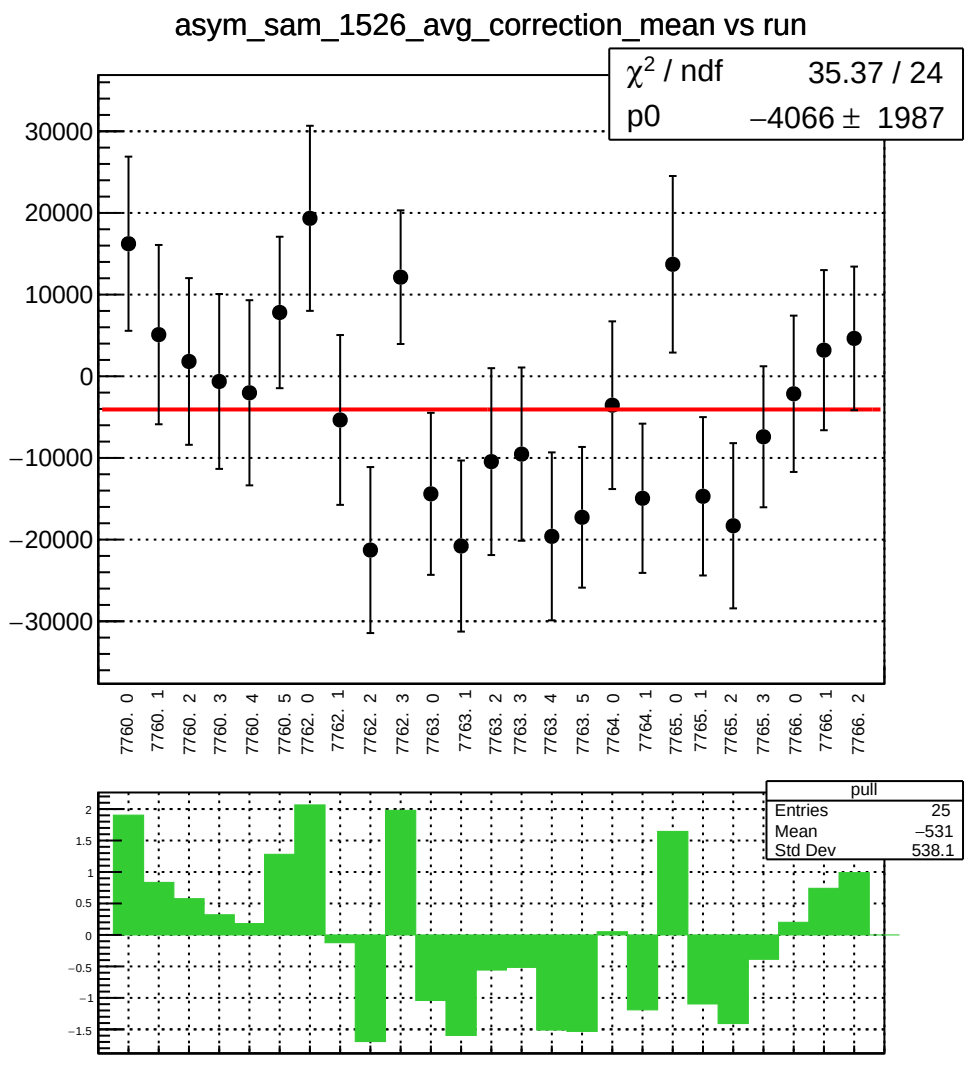

pull1D
Entries 25
Mean 0.007242
Std Dev 1.166
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

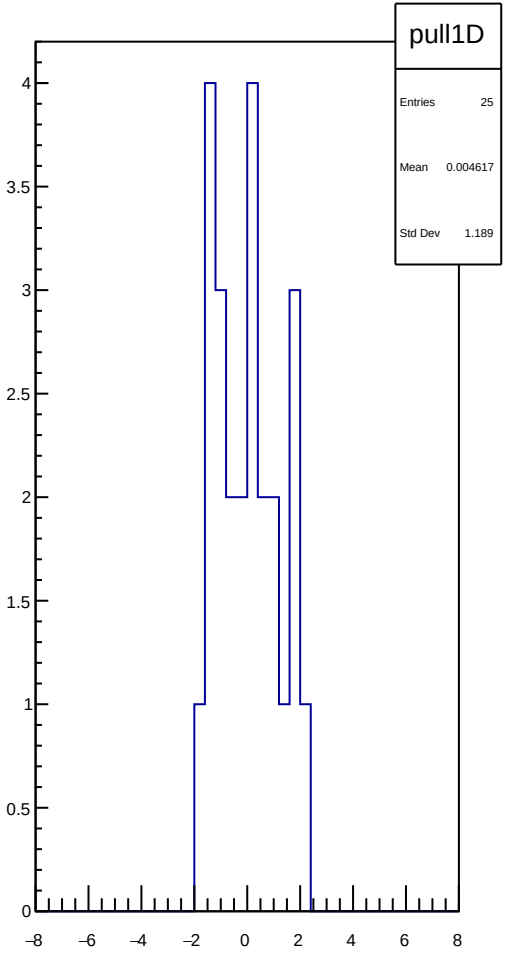

asym_sam_3748_avg_rms vs run
χ² / ndf 978.1 / 24
p0 2392 ± 3.411
2700
2600
2500
2400
2300
2200
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

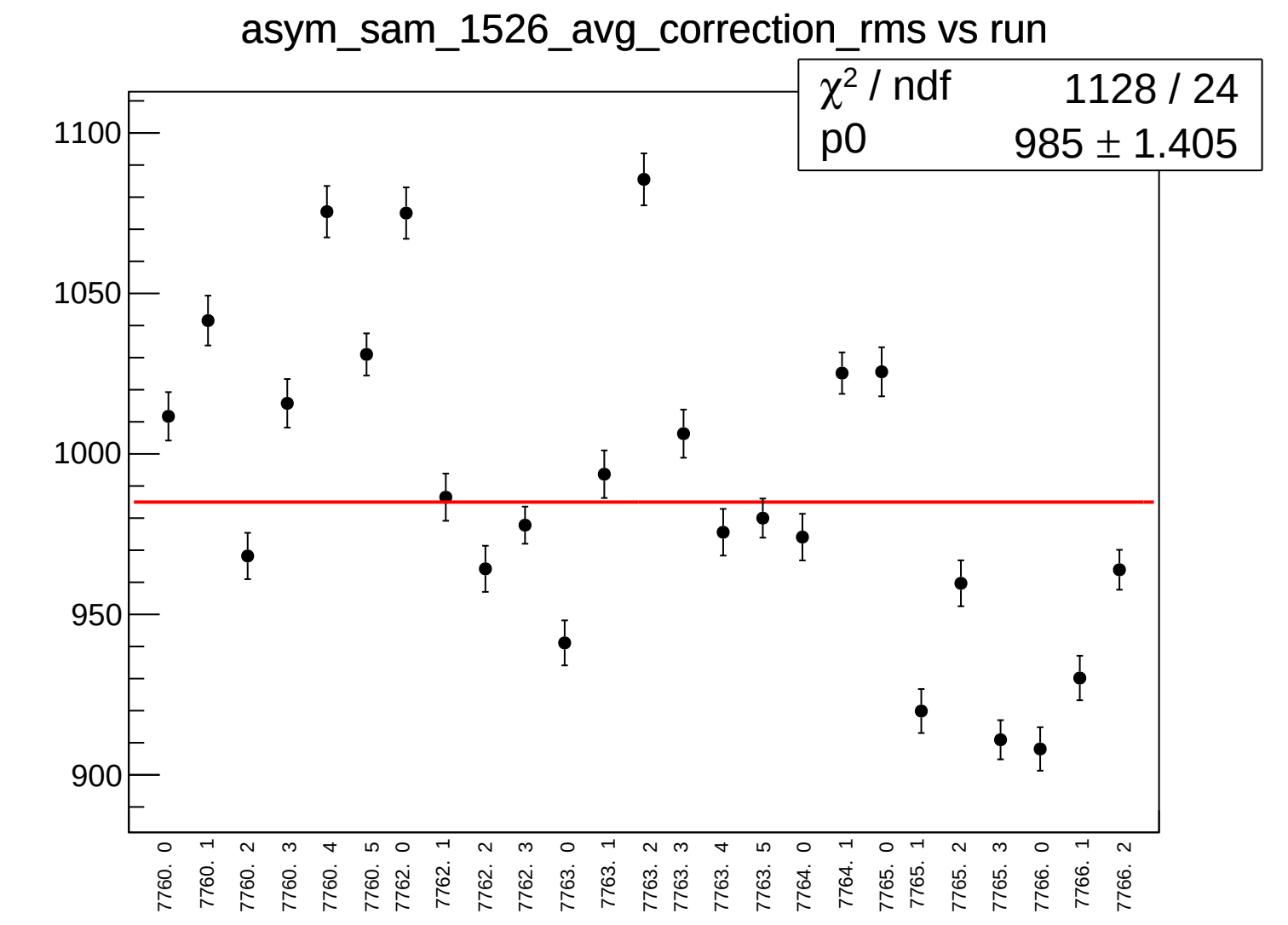

dit_asym_sam_1526_avg_mean vs run
χ² / ndf 34.25 / 24
p0 −23.21± 257.5
6000
4000
2000
0
−2000
−4000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −84.96
Std Dev 91.87
2
1
0
−1
−2

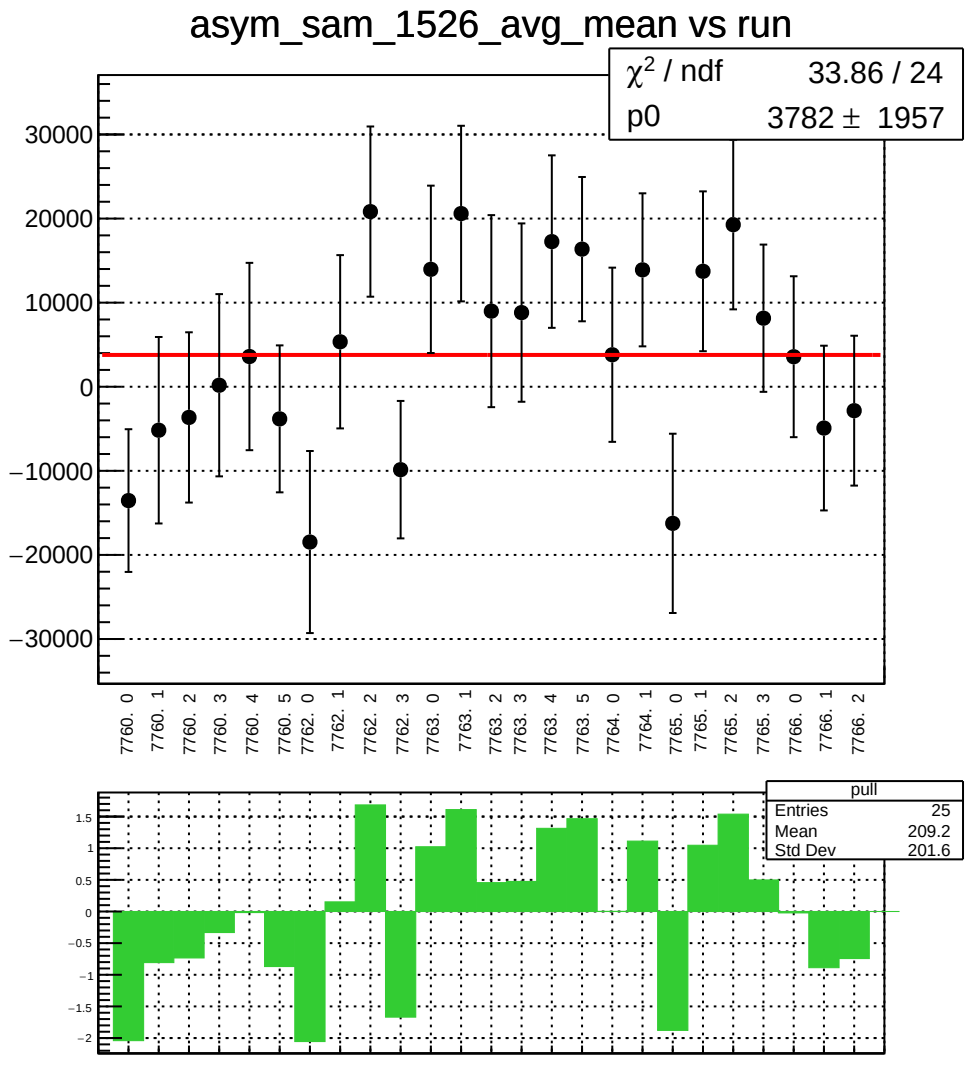

pull1D
Entries 25
Mean 0.01223
Std Dev 1.17
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

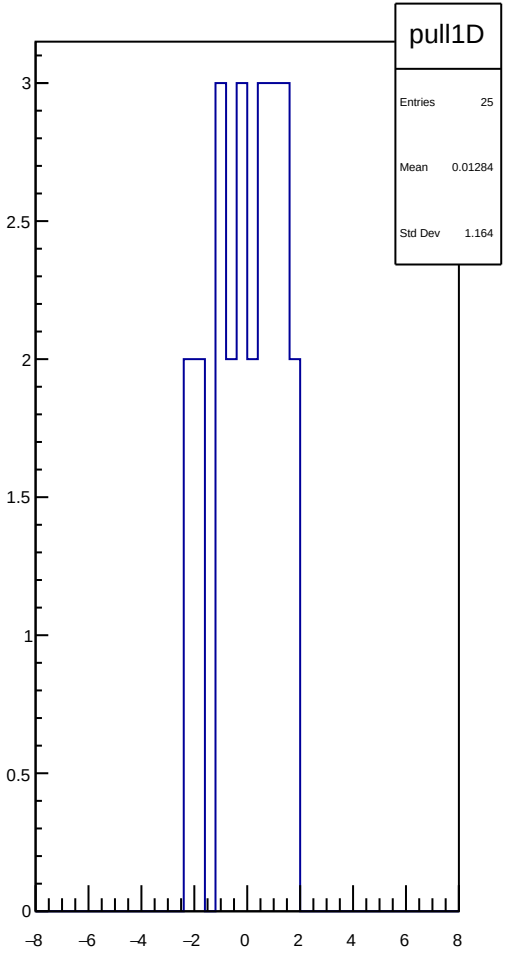

dit_asym_sam_1526_avg_rms vs run
χ² / ndf 9823 / 24
p0 126.5 ± 0.1821
300
250
200
150
100
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

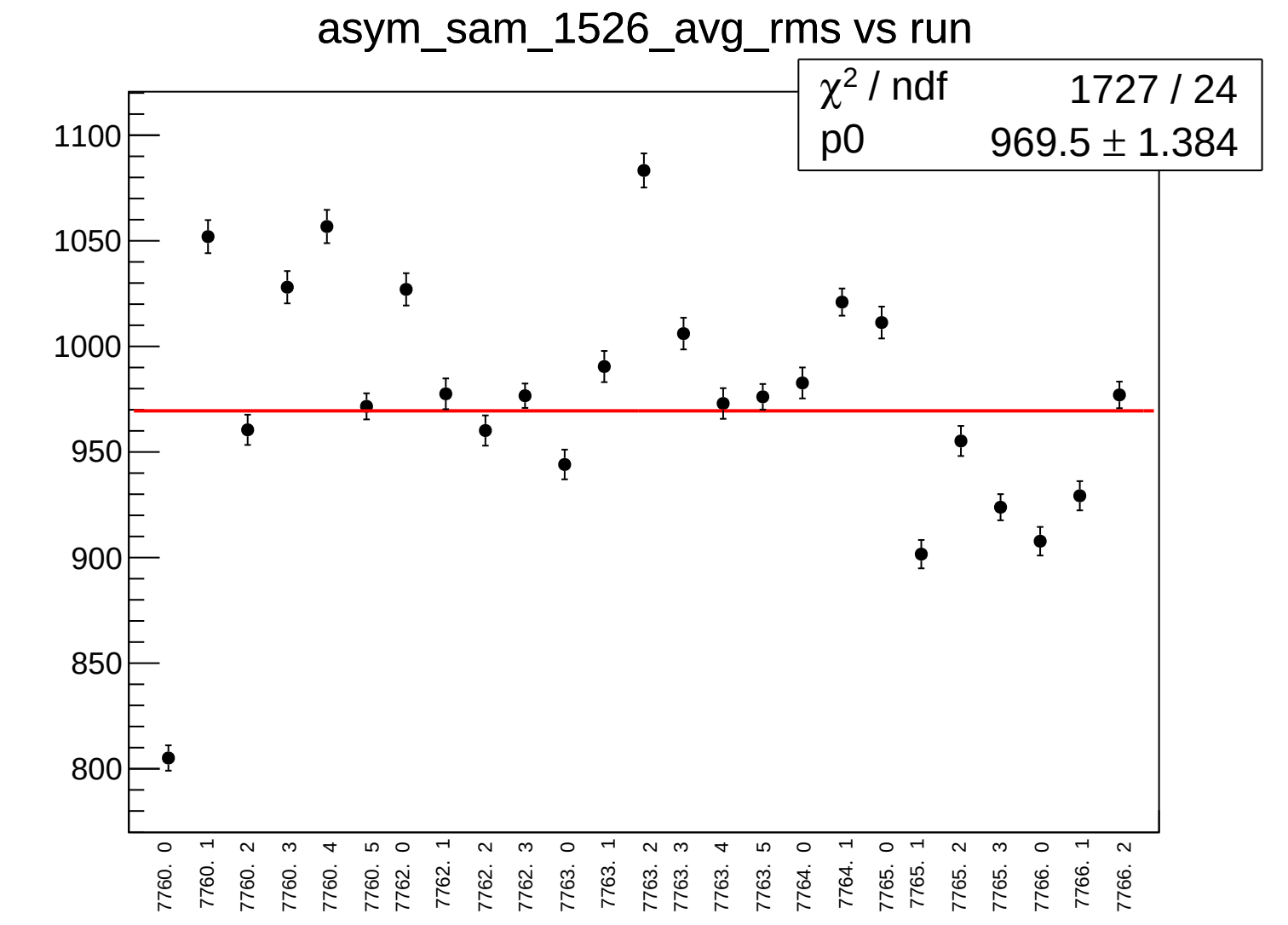

asym_sam_1526_avg_correction_mean vs run
χ² / ndf 35.37 / 24
p0 −4066 ± 1987
30000
20000
10000
0
−10000
−20000
−30000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −531
Std Dev 538.1
2
1.5
1
0.5
0
−0.5
−1
−1.5

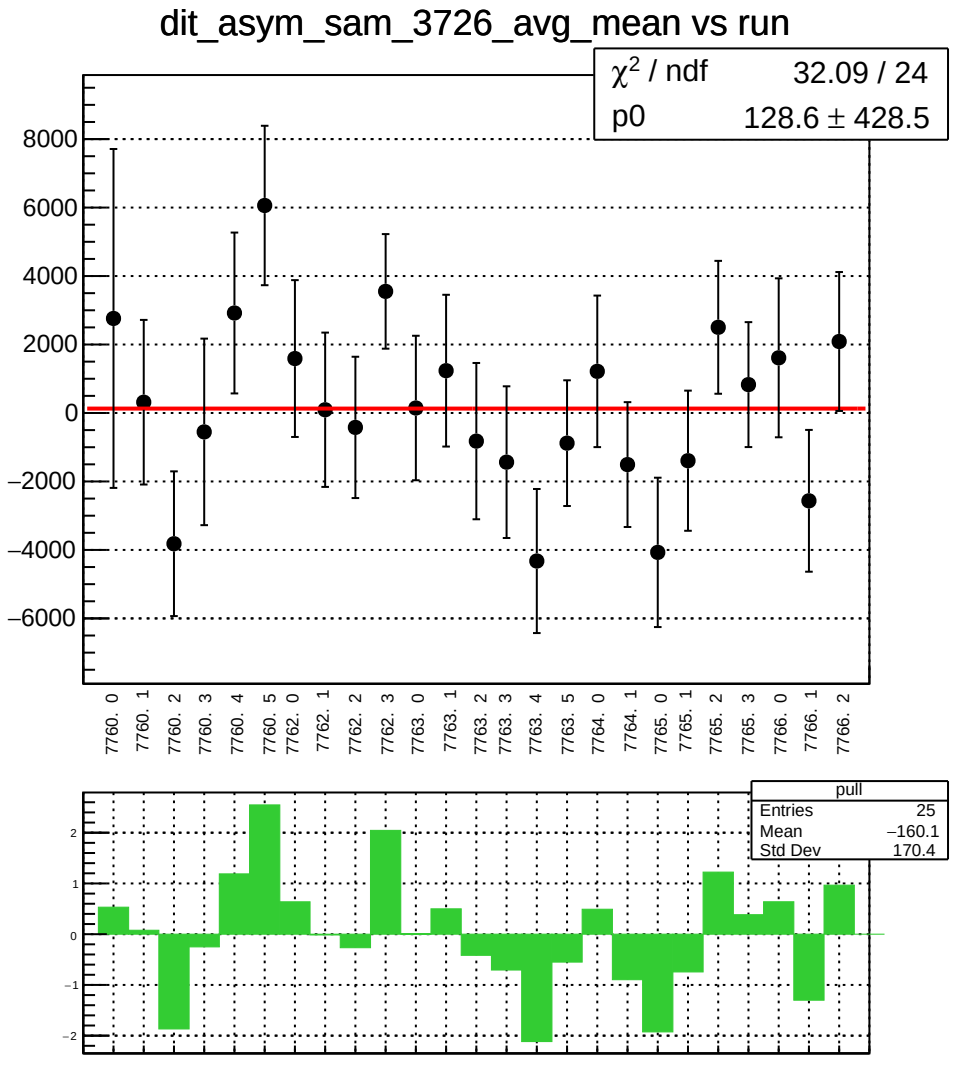

pull1D
Entries 25
Mean 0.004617
Std Dev 1.189
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

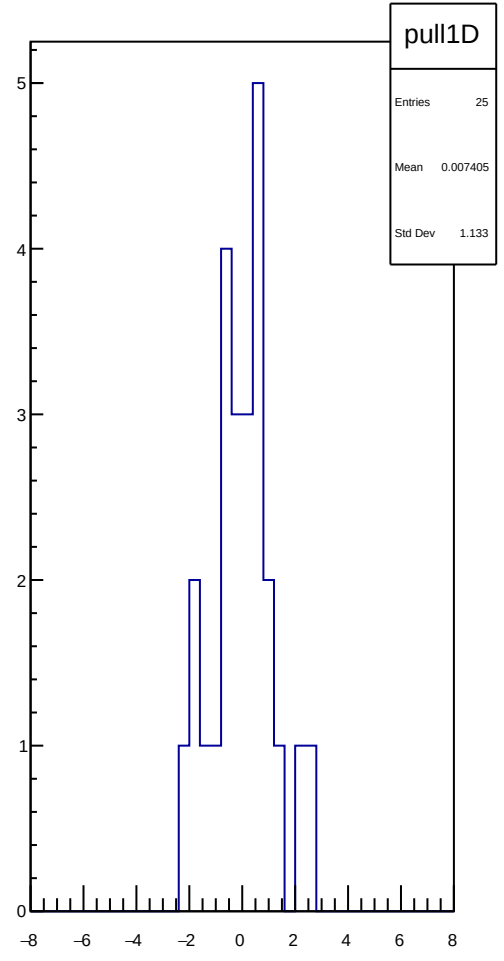

asym_sam_1526_avg_correction_rms vs run
χ² / ndf 1128 / 24
p0 985 ± 1.405
1100
1050
1000
950
900
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

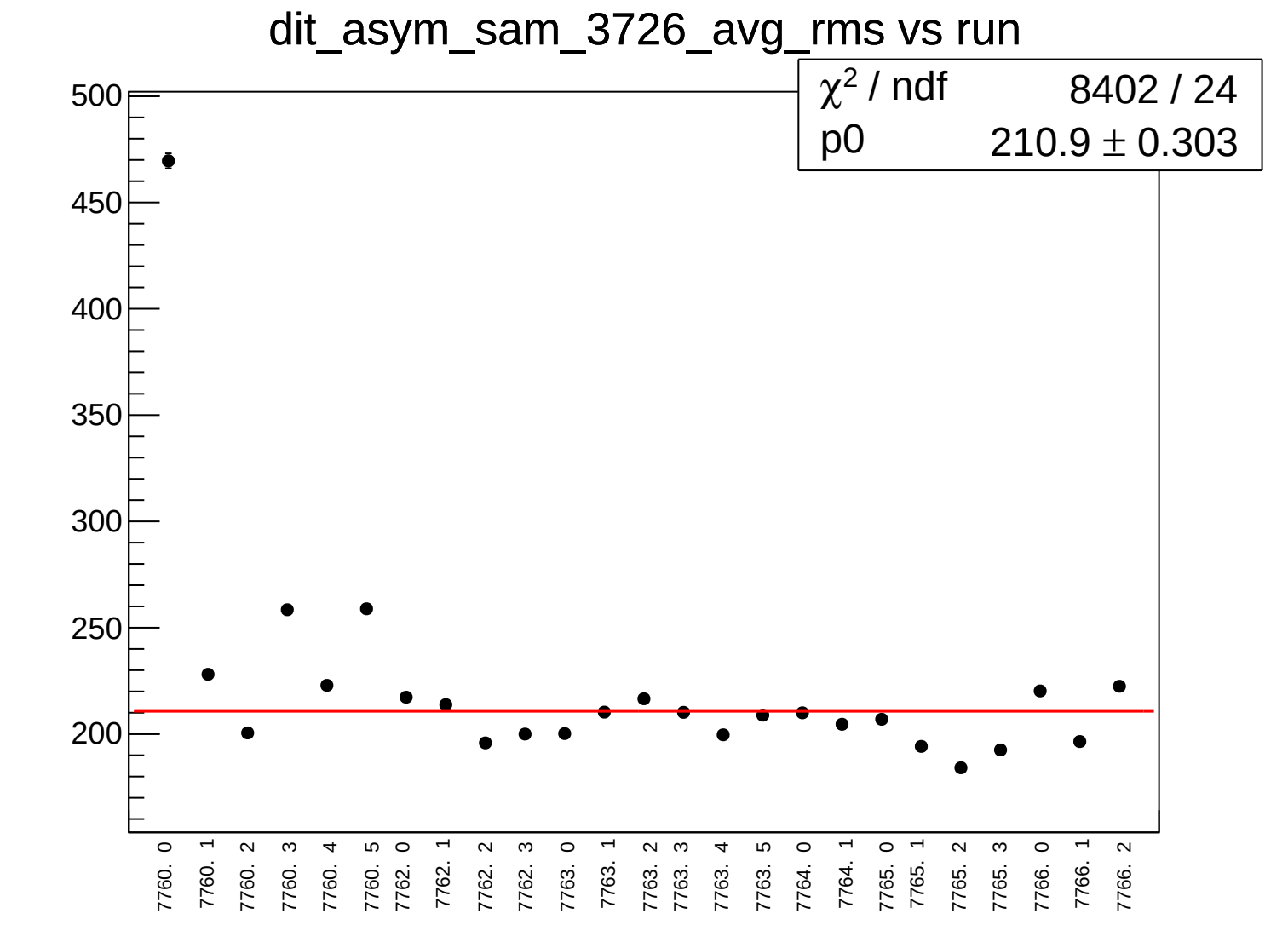

asym_sam_1526_avg_mean vs run
χ² / ndf 33.86 / 24
p0 3782 ± 1957
30000
20000
10000
0
−10000
−20000
−30000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 209.2
Std Dev 201.6
1.5
1
0.5
0
−0.5
−1
−1.5
−2

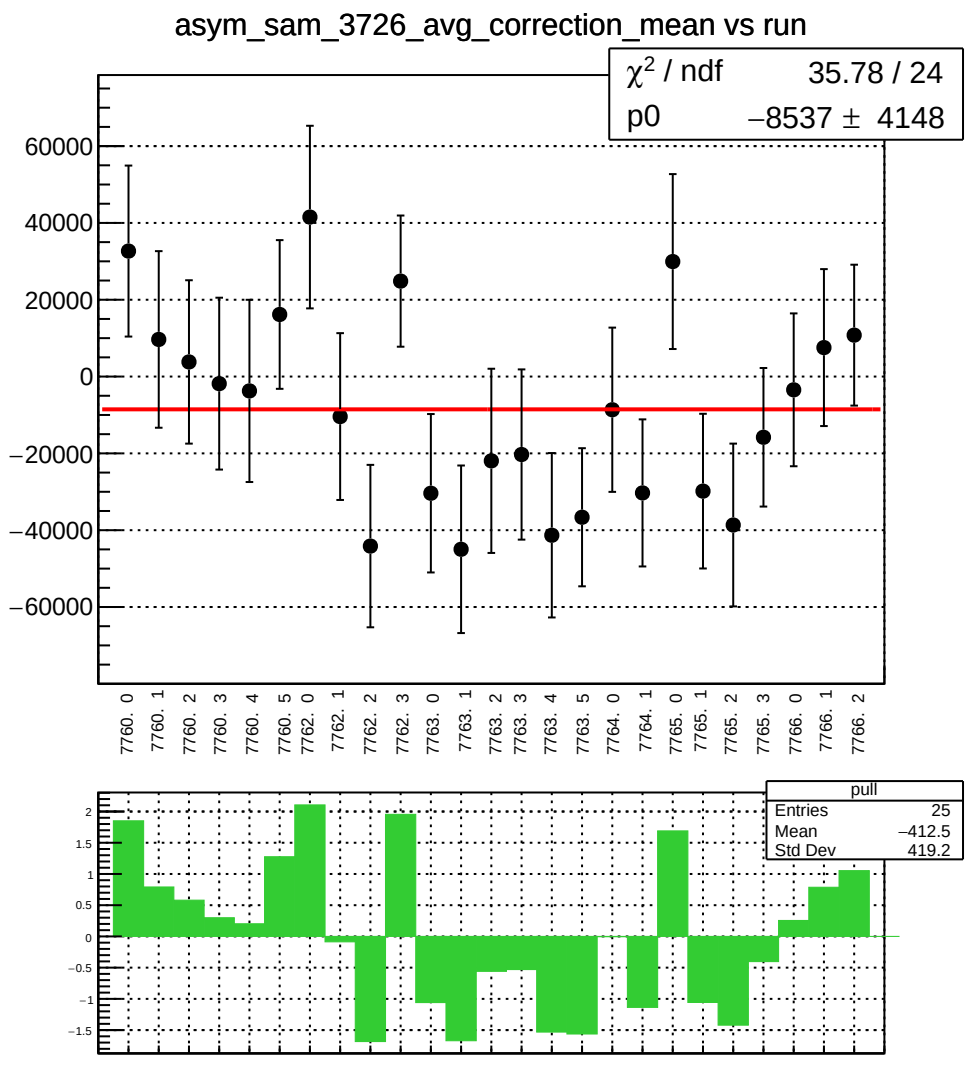

pull1D
Entries 25
Mean 0.01284
Std Dev 1.164
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

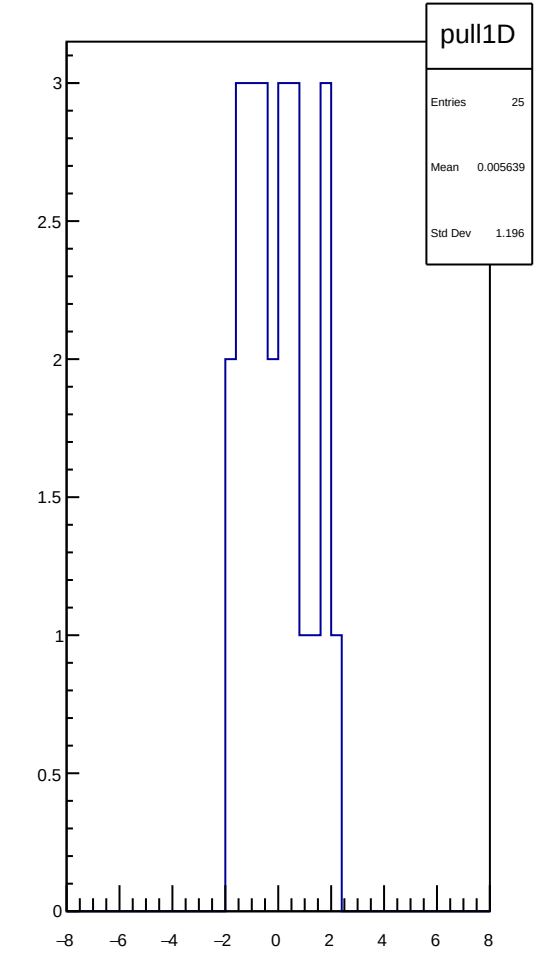

asym_sam_1526_avg_rms vs run
χ² / ndf 1727 / 24
p0 969.5 ± 1.384
1100
1050
1000
950
900
850
800
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

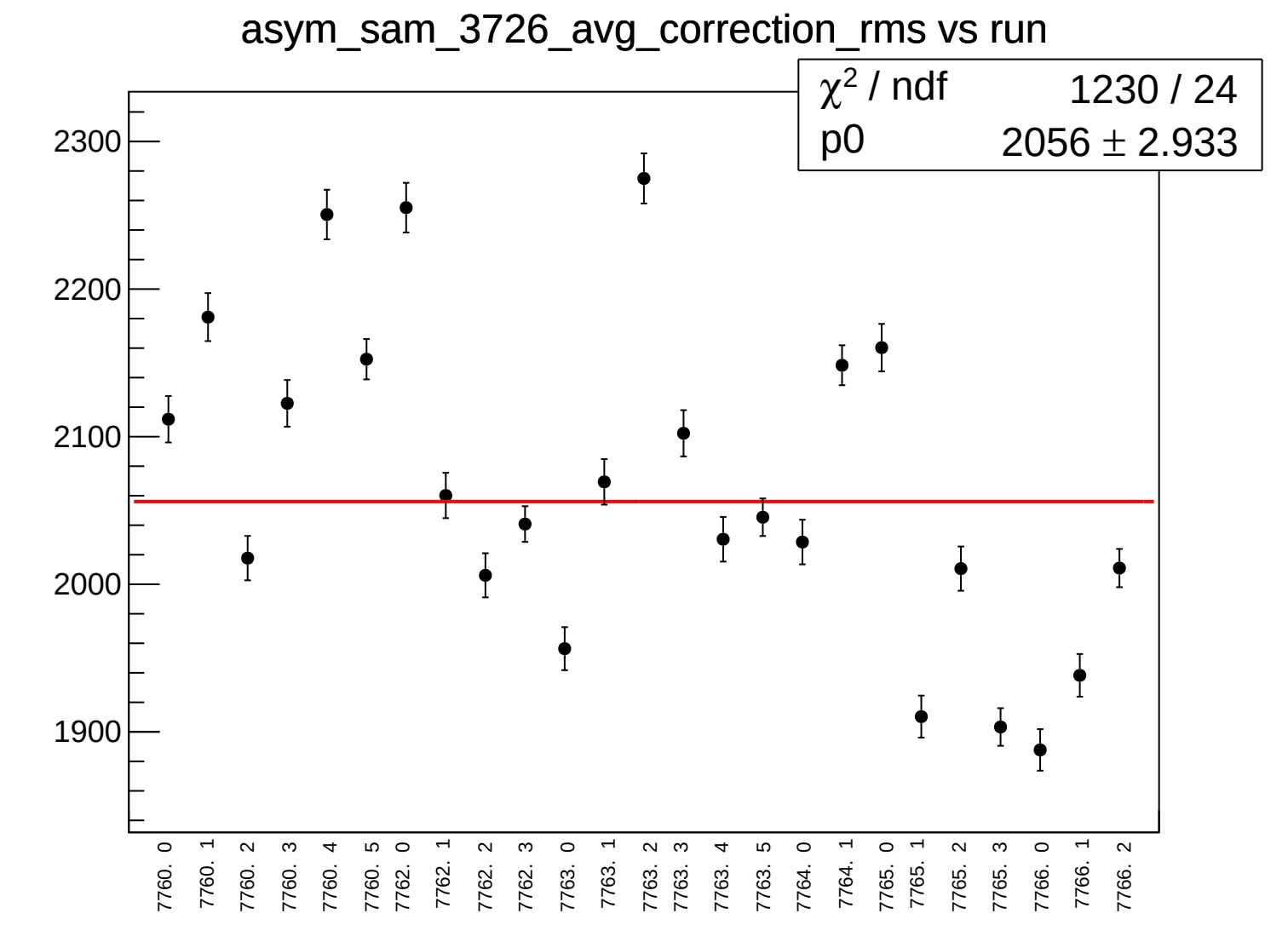

dit_asym_sam_3726_avg_mean vs run
χ² / ndf 32.09 / 24
p0 128.6 ± 428.5
8000
6000
4000
2000
0
−2000
−4000
−6000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −160.1
Std Dev 170.4
2
1
0
−1
−2

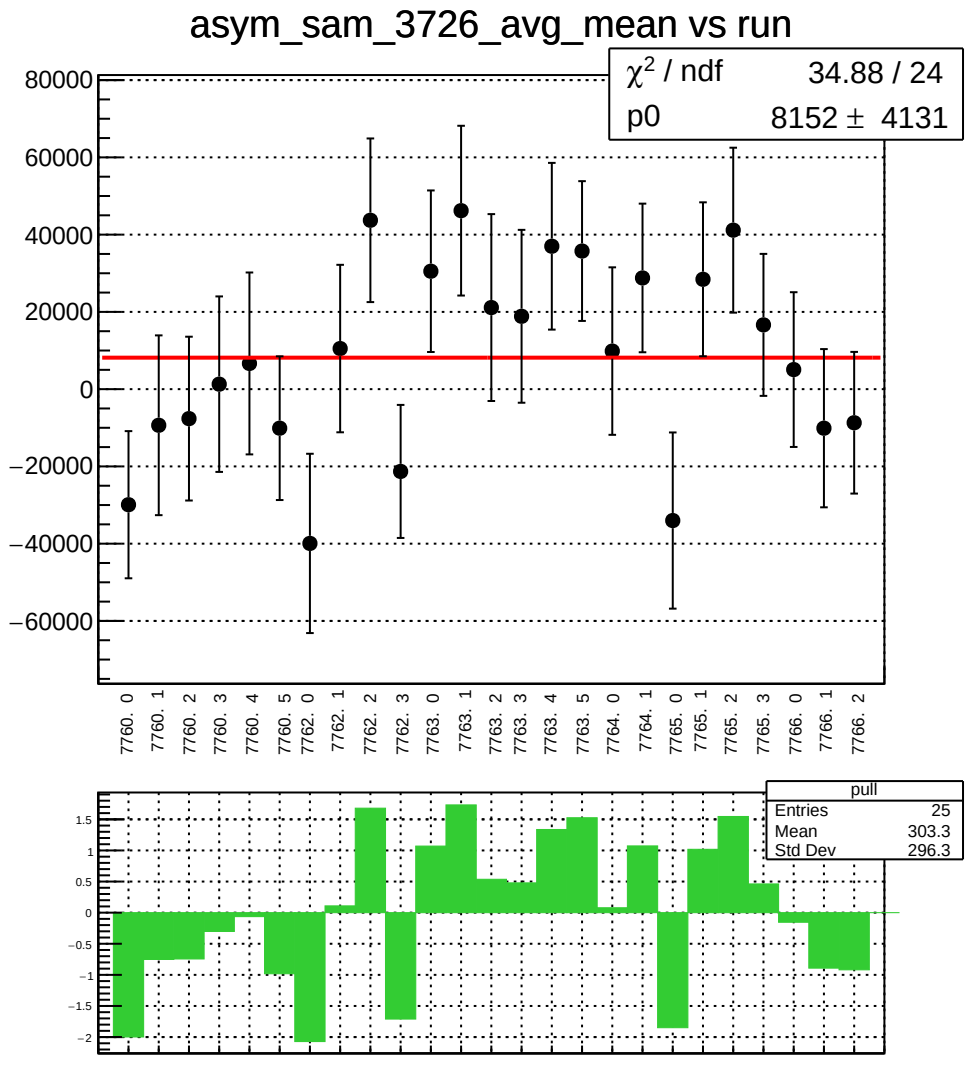

pull1D
Entries 25
Mean 0.007405
Std Dev 1.133
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

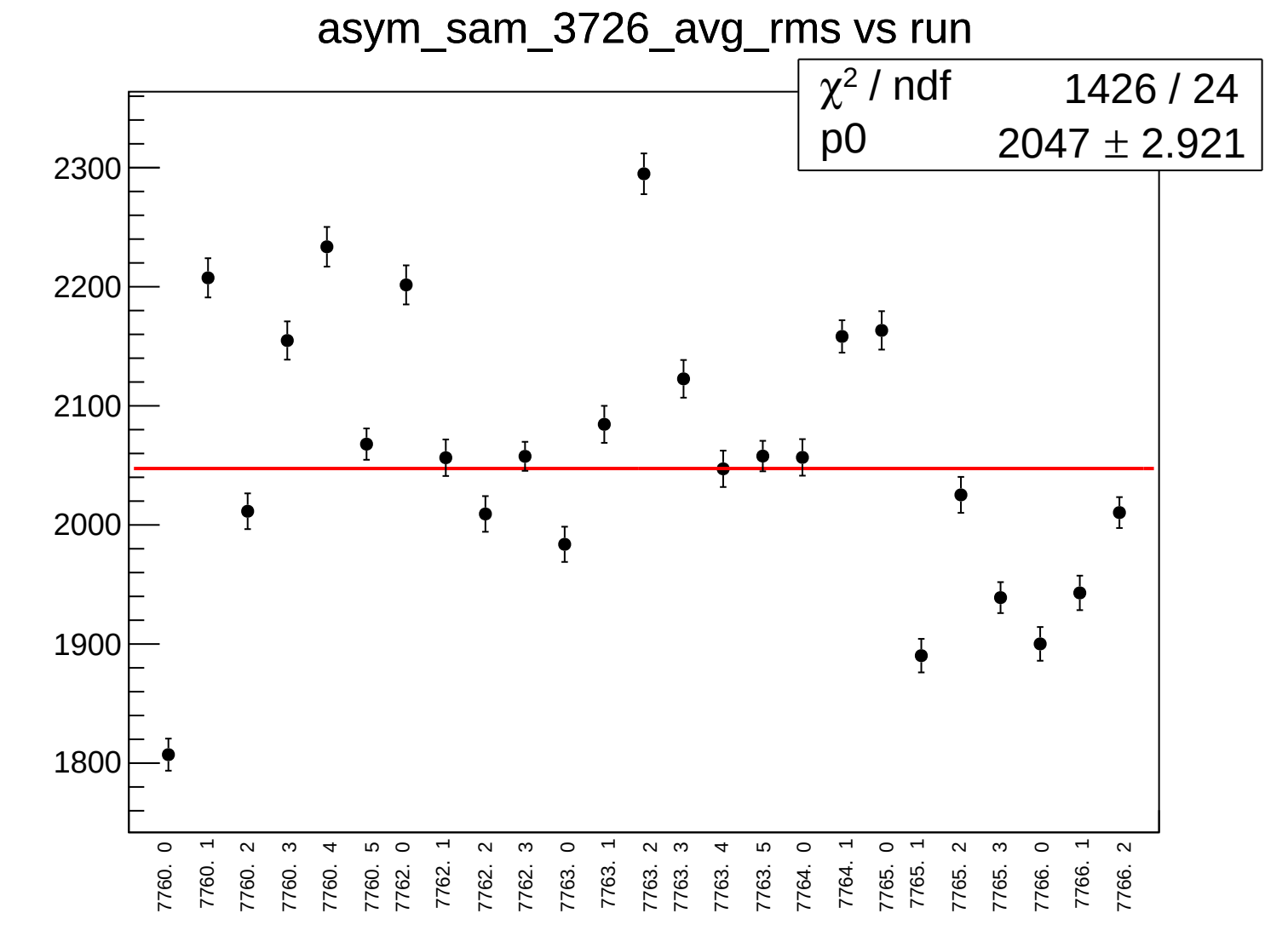

dit_asym_sam_3726_avg_rms vs run
χ² / ndf 8402 / 24
p0 210.9 ± 0.303
500
450
400
350
300
250
200
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

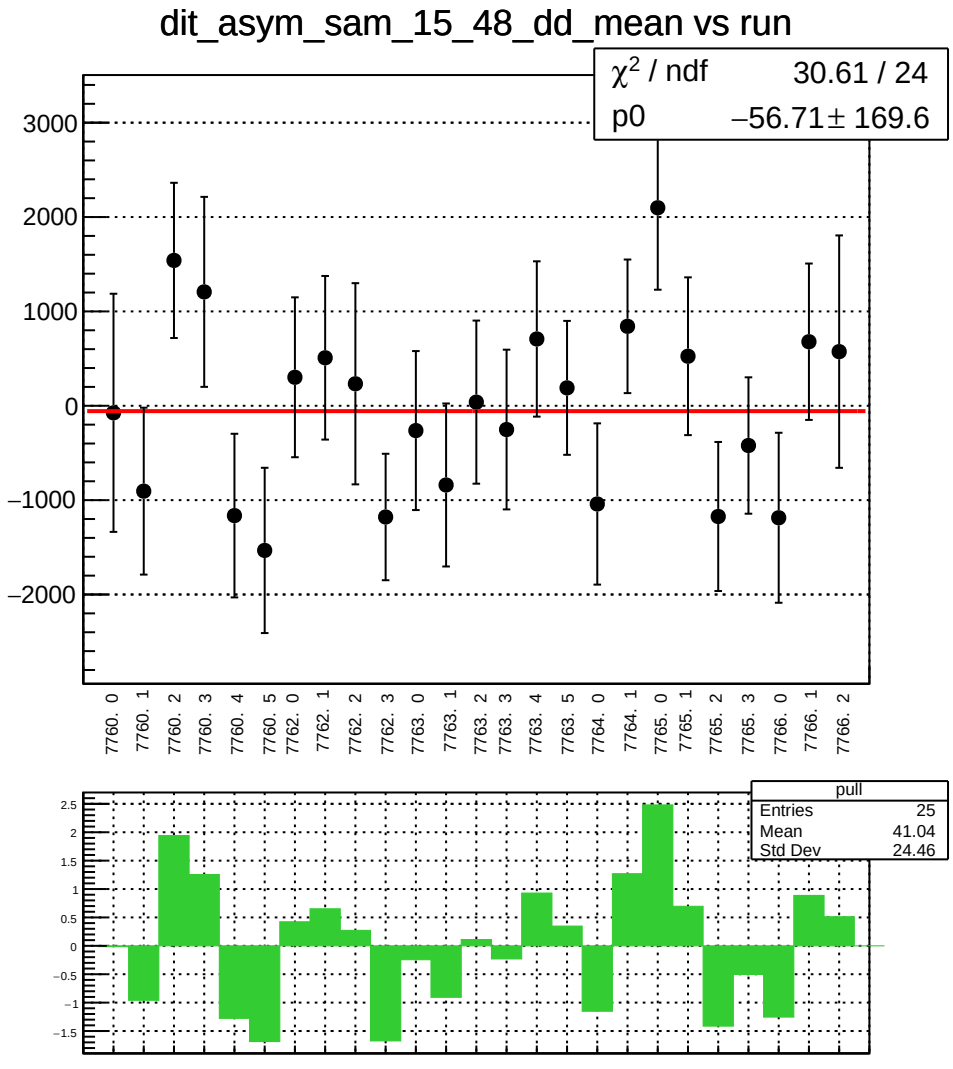

asym_sam_3726_avg_correction_mean vs run
χ² / ndf 35.78 / 24
p0 −8537 ± 4148
60000
40000
20000
0
−20000
−40000
−60000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −412.5
Std Dev 419.2
2
1.5
1
0.5
0
−0.5
−1
−1.5

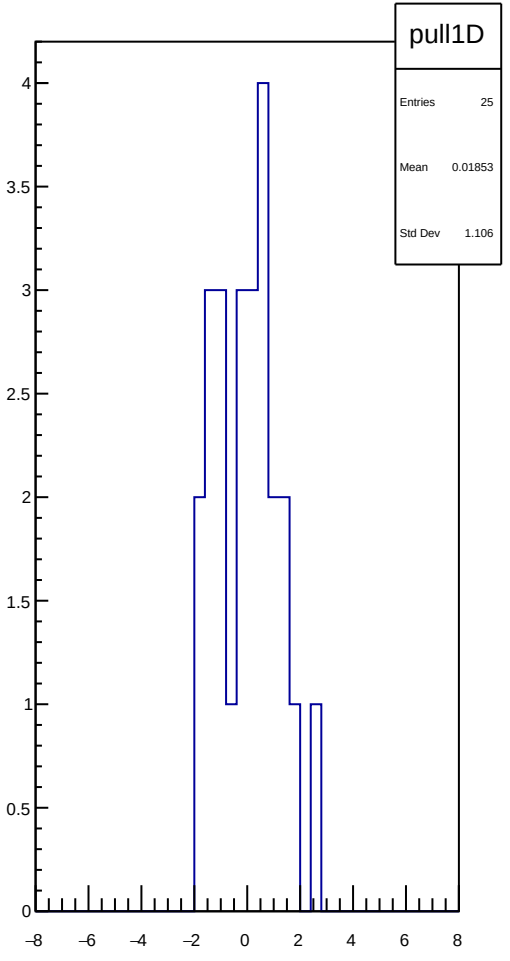

pull1D
Entries 25
Mean 0.005639
Std Dev 1.196
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

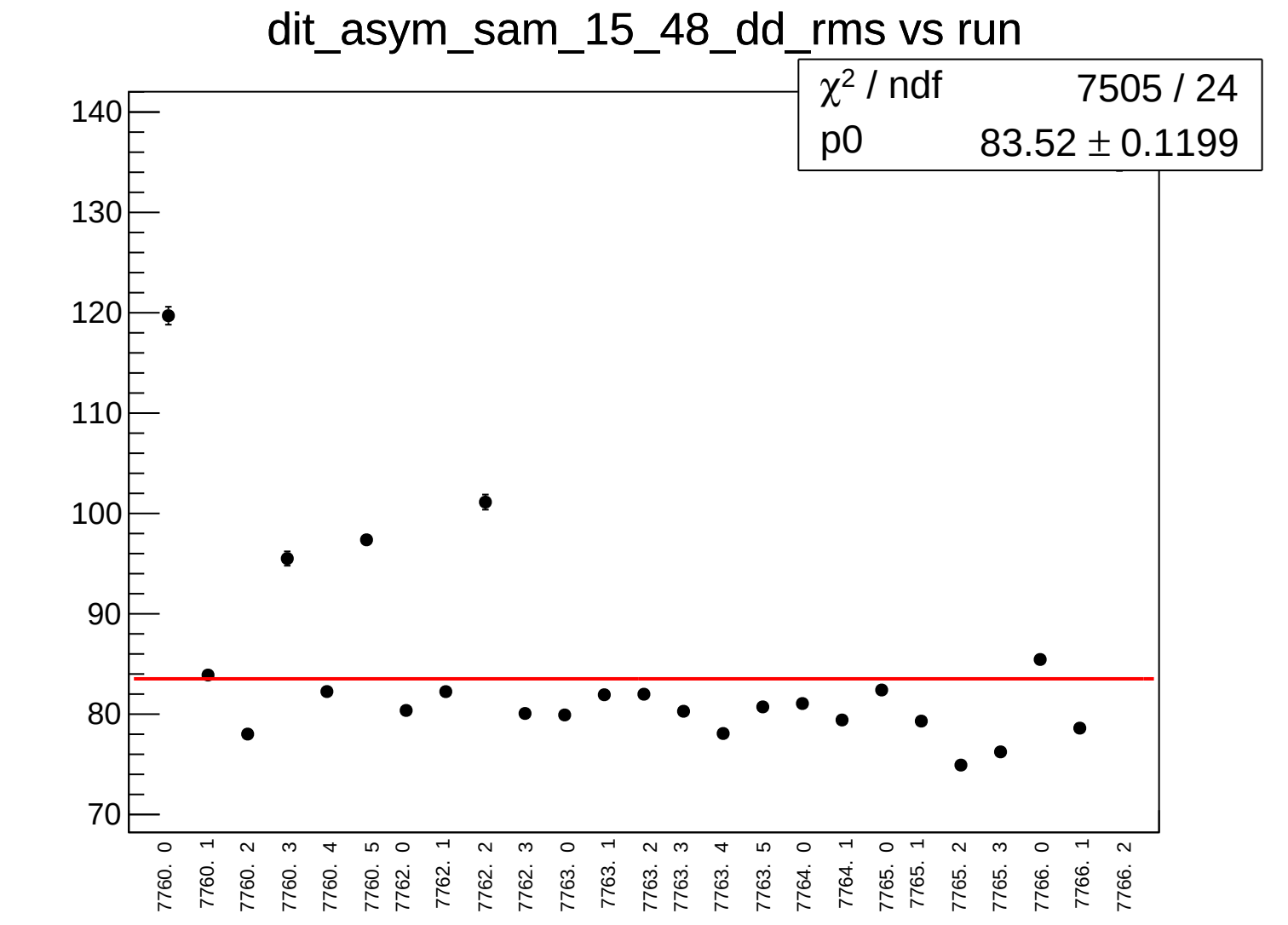

asym_sam_3726_avg_correction_rms vs run
χ² / ndf 1230 / 24
p0 2056 ± 2.933
2300
2200
2100
2000
1900
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

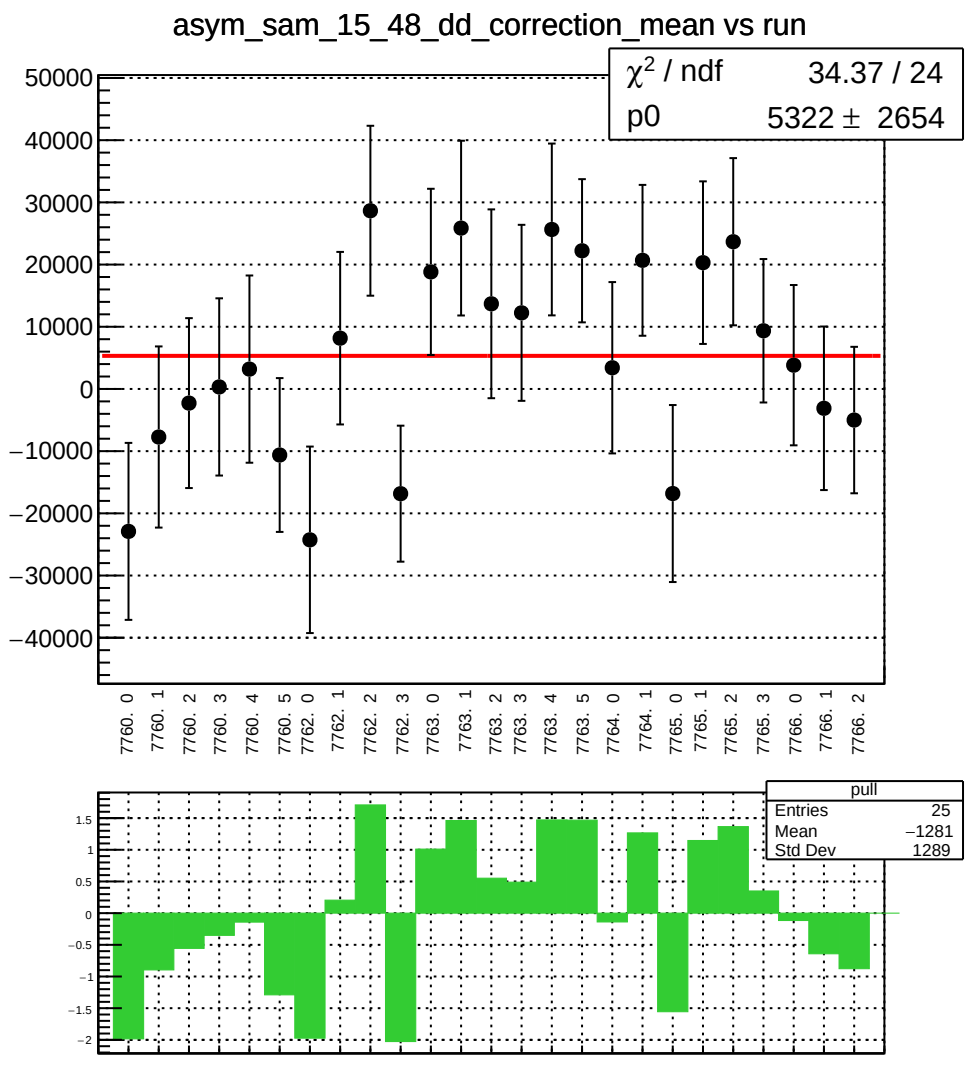

asym_sam_3726_avg_mean vs run
χ² / ndf 34.88 / 24
p0 8152 ± 4131
80000
60000
40000
20000
0
−20000
−40000
−60000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 303.3
Std Dev 296.3
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 25
Mean 0.008228
Std Dev 1.181
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

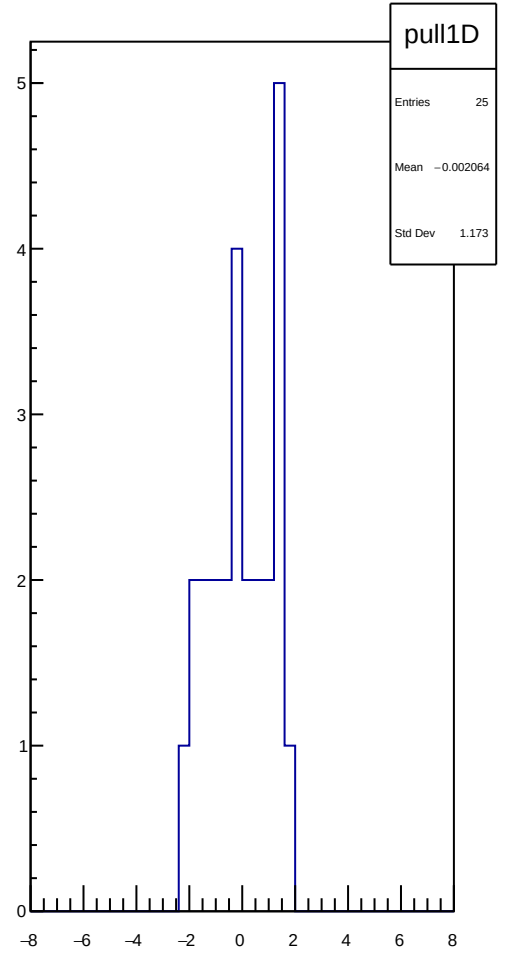

asym_sam_3726_avg_rms vs run
χ² / ndf 1426 / 24
p0 2047 ± 2.921
2300
2200
2100
2000
1900
1800
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

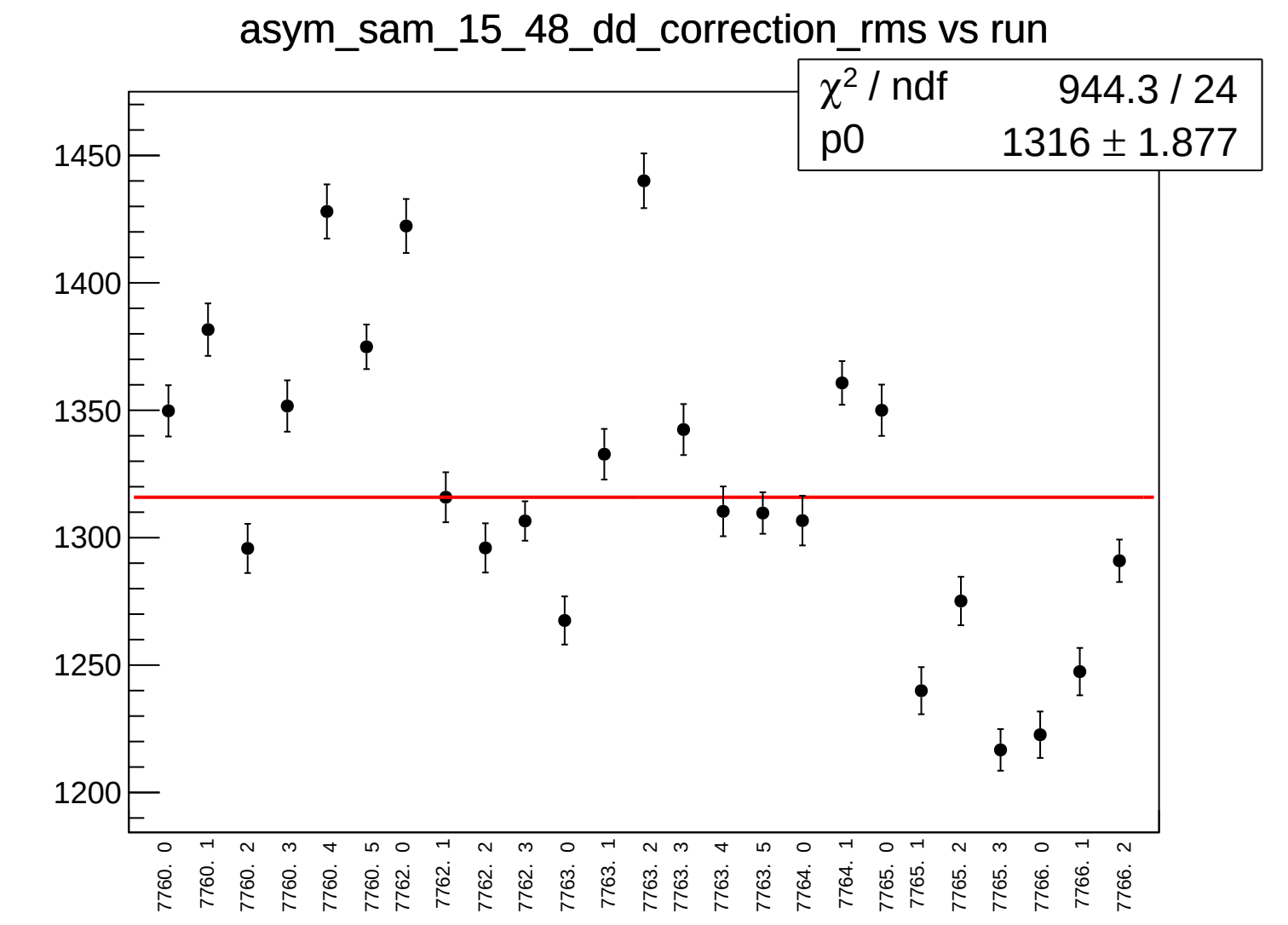

dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 30.61 / 24
p0 −56.71 ± 169.6
3000
2000
1000
0
−1000
−2000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 41.04
Std Dev 24.46
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

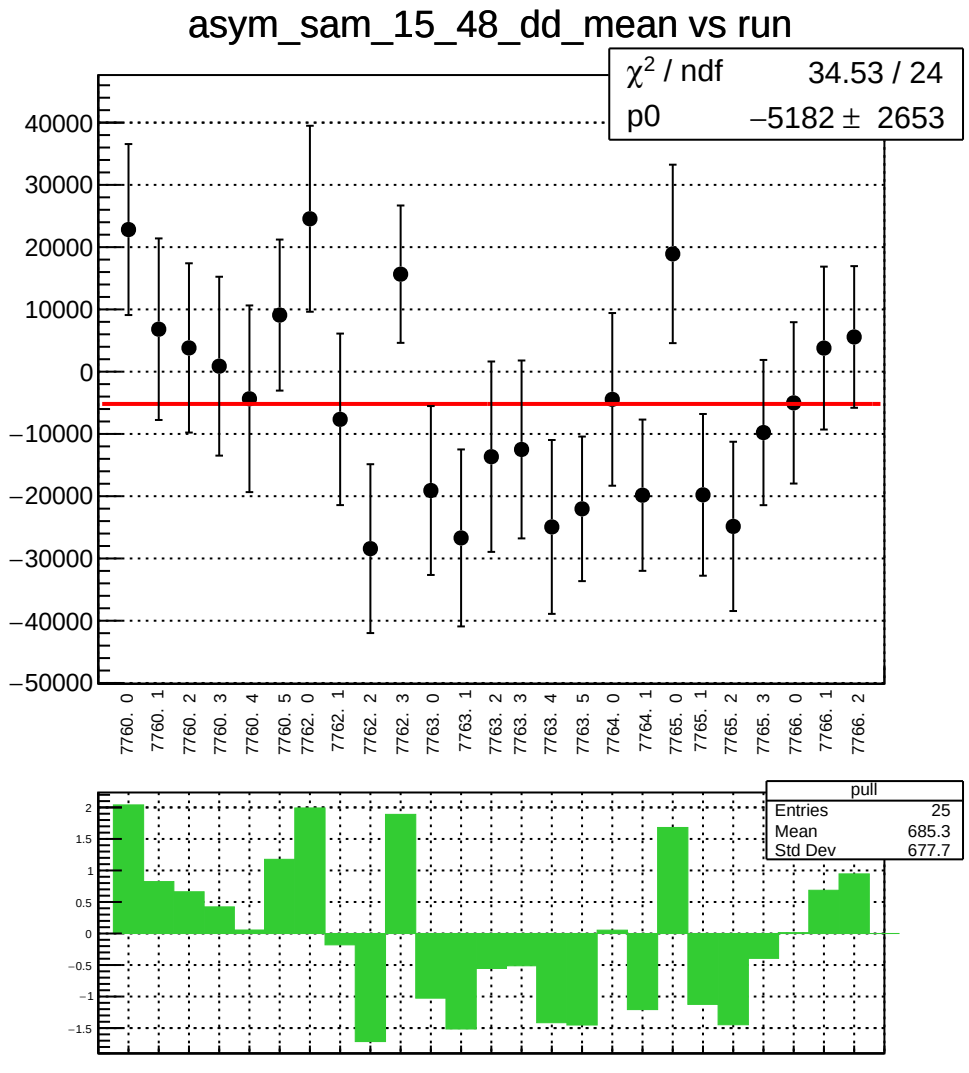

pull1D
Entries 25
Mean 0.01853
Std Dev 1.106
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

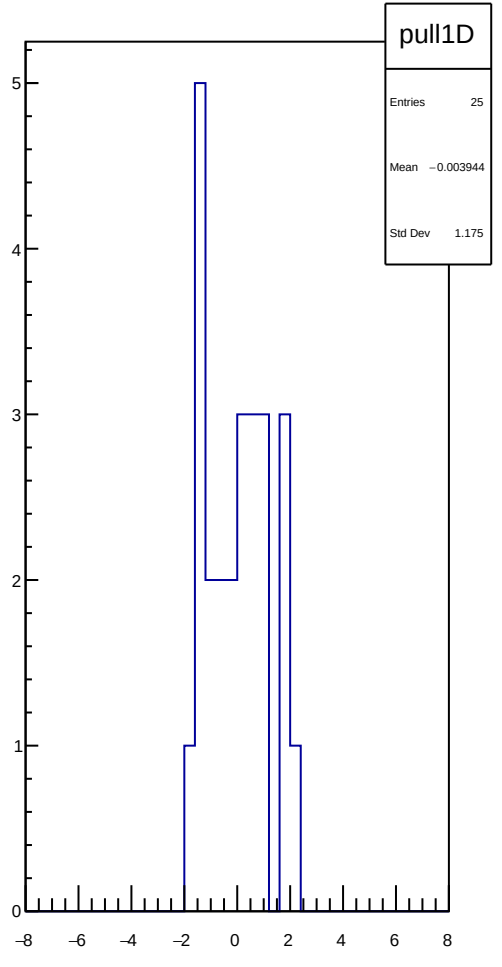

dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 7505 / 24
p0 83.52 ± 0.1199
140
130
120
110
100
90
80
70
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

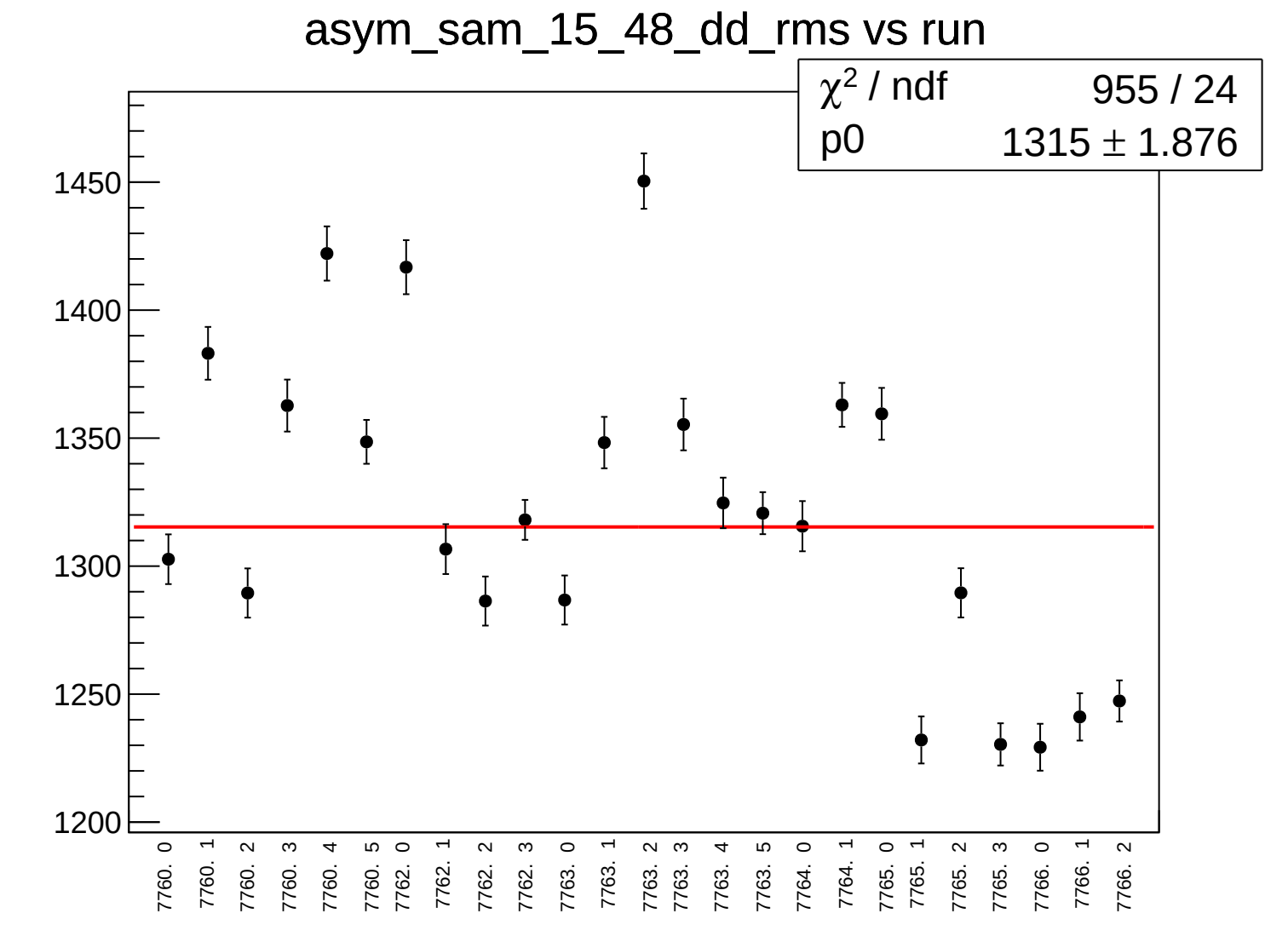

asym_sam_15_48_dd_correction_mean vs run
χ² / ndf 34.37 / 24
p0 5322 ± 2654
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −1281
Std Dev 1289
1.5
1
0.5
0
−0.5
−1
−1.5
−2

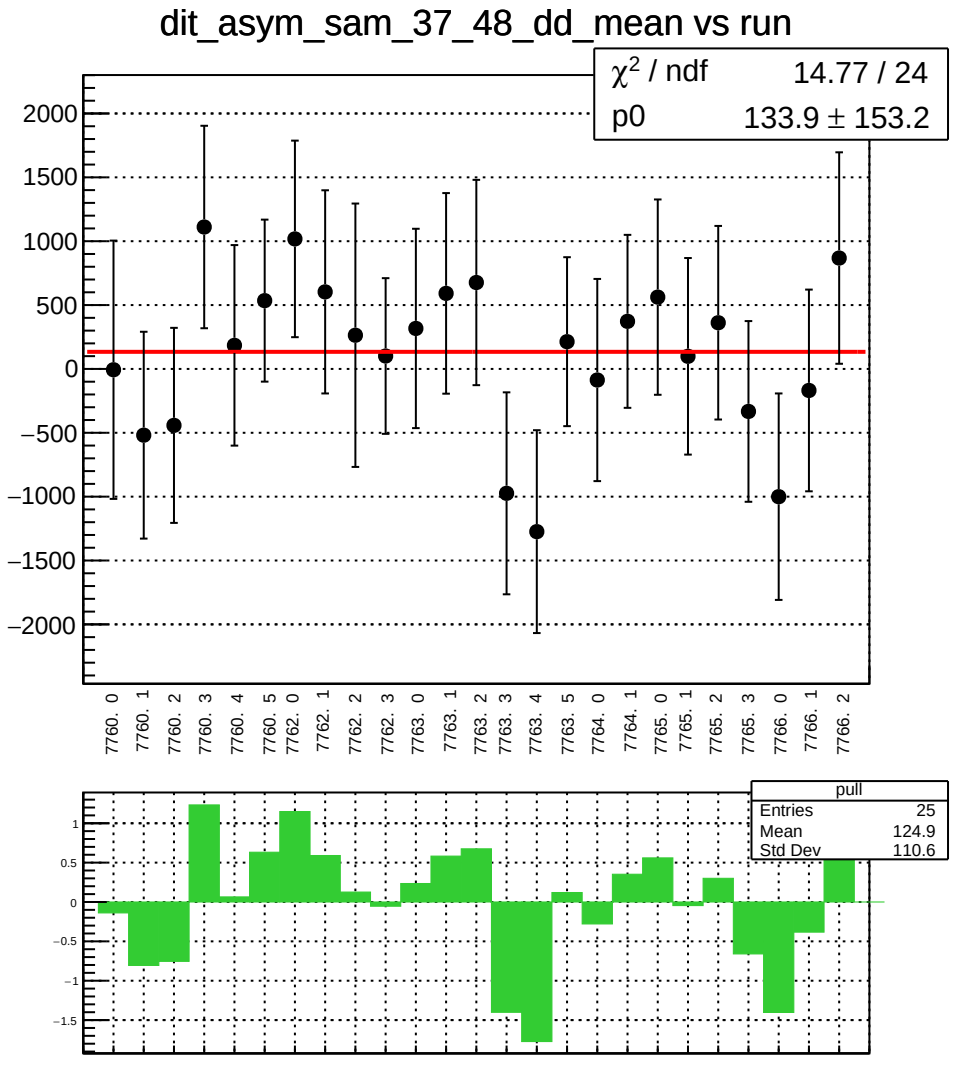

pull1D
Entries 25
Mean −0.002064
Std Dev 1.173
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

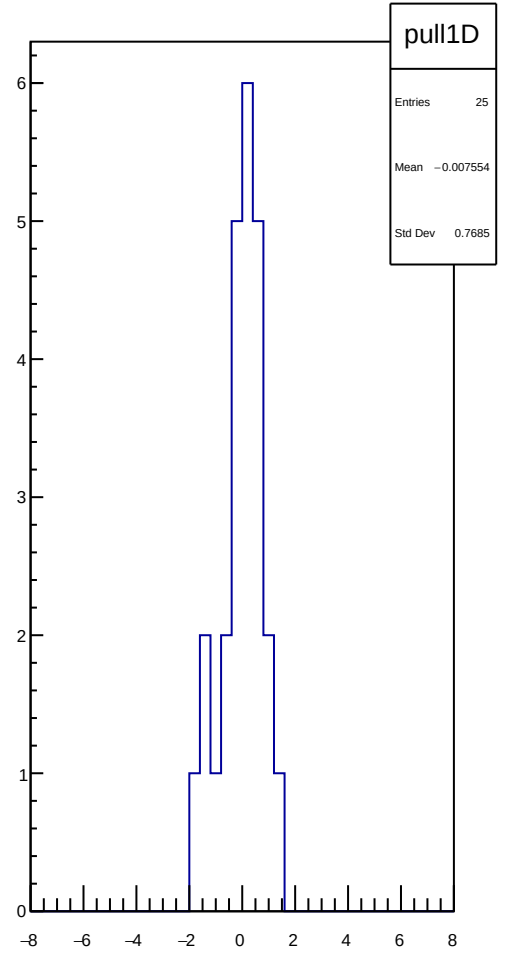

asym_sam_15_48_dd_correction_rms vs run
χ² / ndf 944.3 / 24
p0 1316 ± 1.877
1450
1400
1350
1300
1250
1200
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

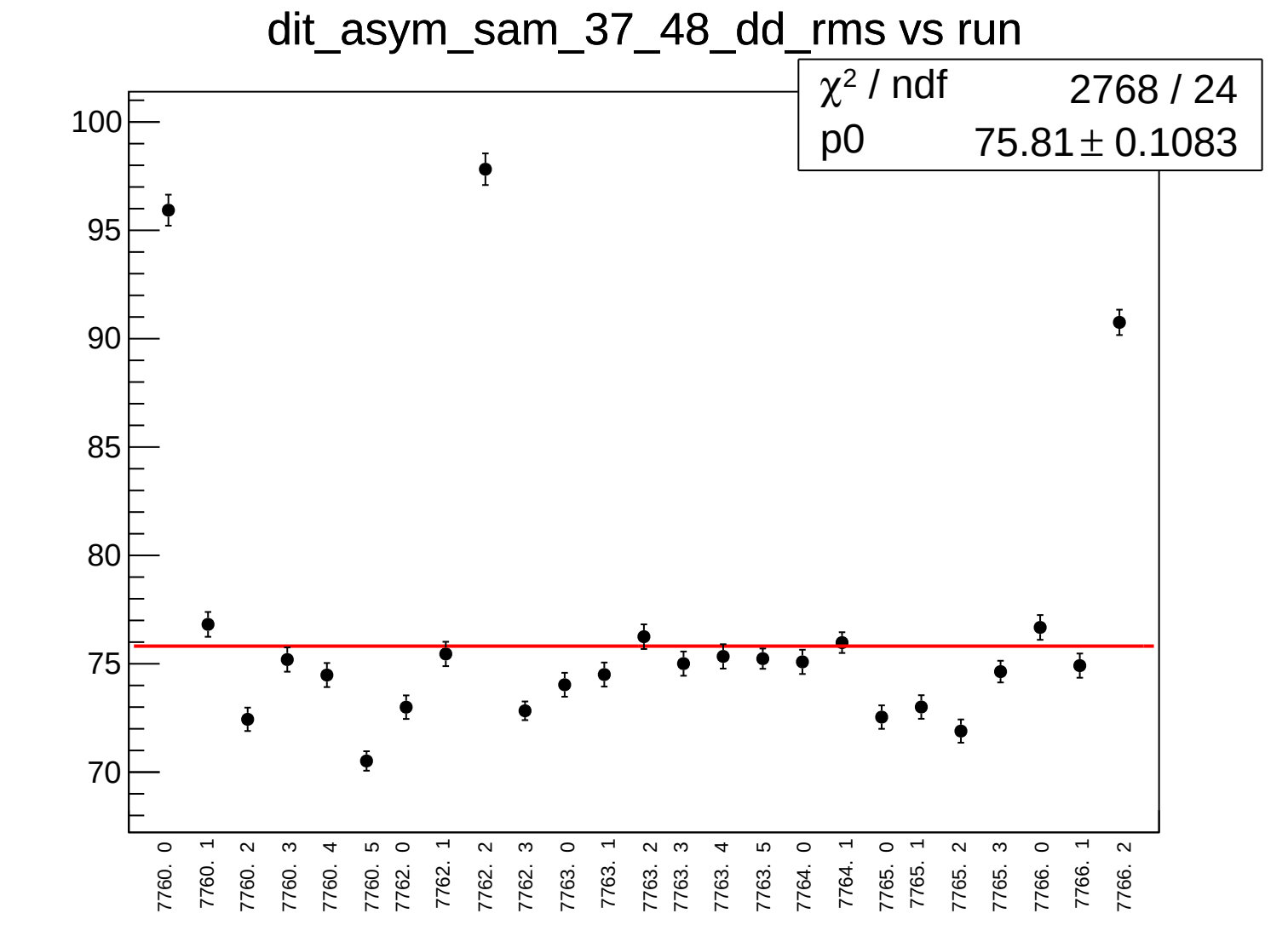

asym_sam_15_48_dd_mean vs run
χ² / ndf 34.53 / 24
p0 −5182 ± 2653
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 685.3
Std Dev 677.7
2
1.5
1
0.5
0
−0.5
−1
−1.5

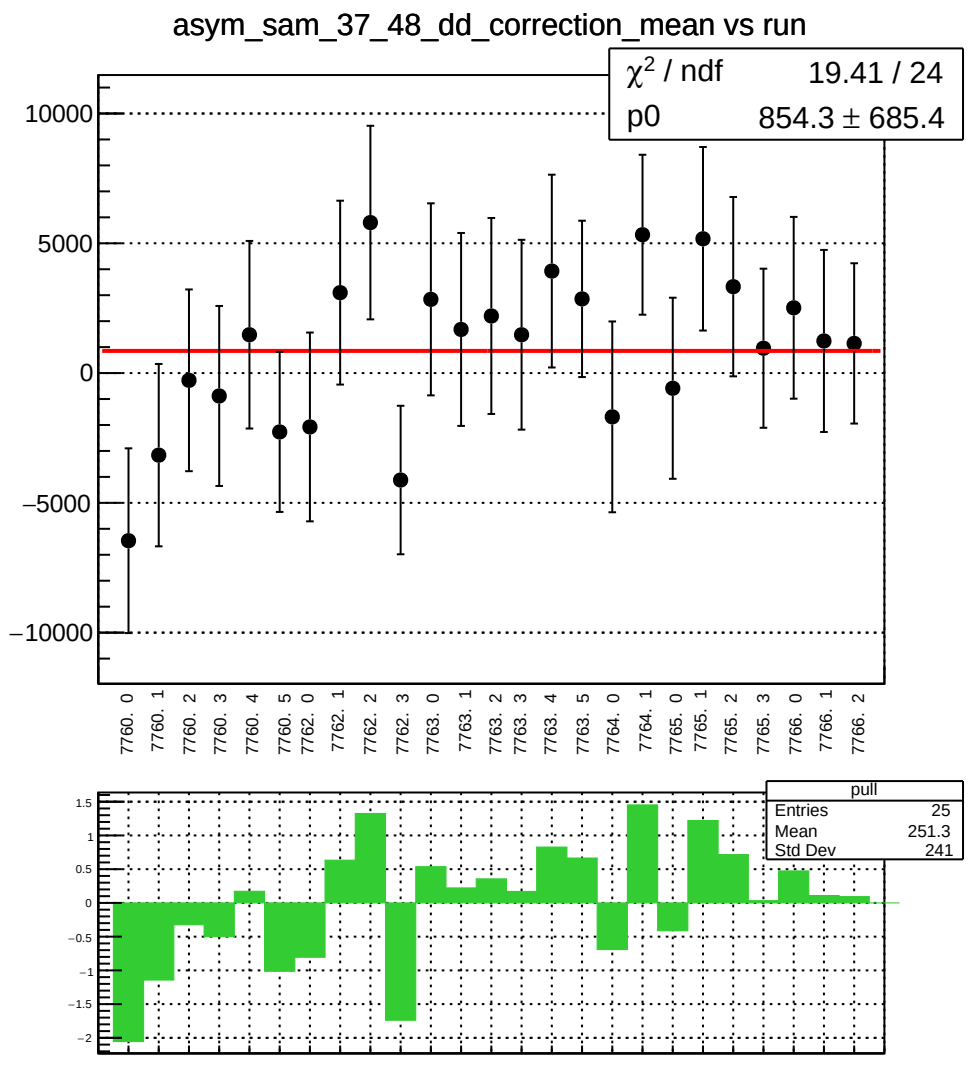

pull1D
Entries 25
Mean −0.003944
Std Dev 1.175
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

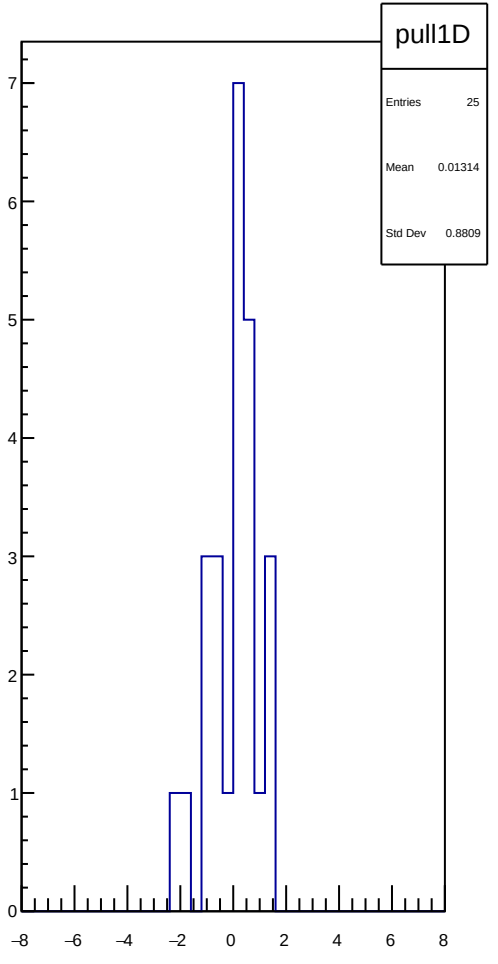

asym_sam_15_48_dd_rms vs run
χ² / ndf 955 / 24
p0 1315 ± 1.876
1450
1400
1350
1300
1250
1200
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

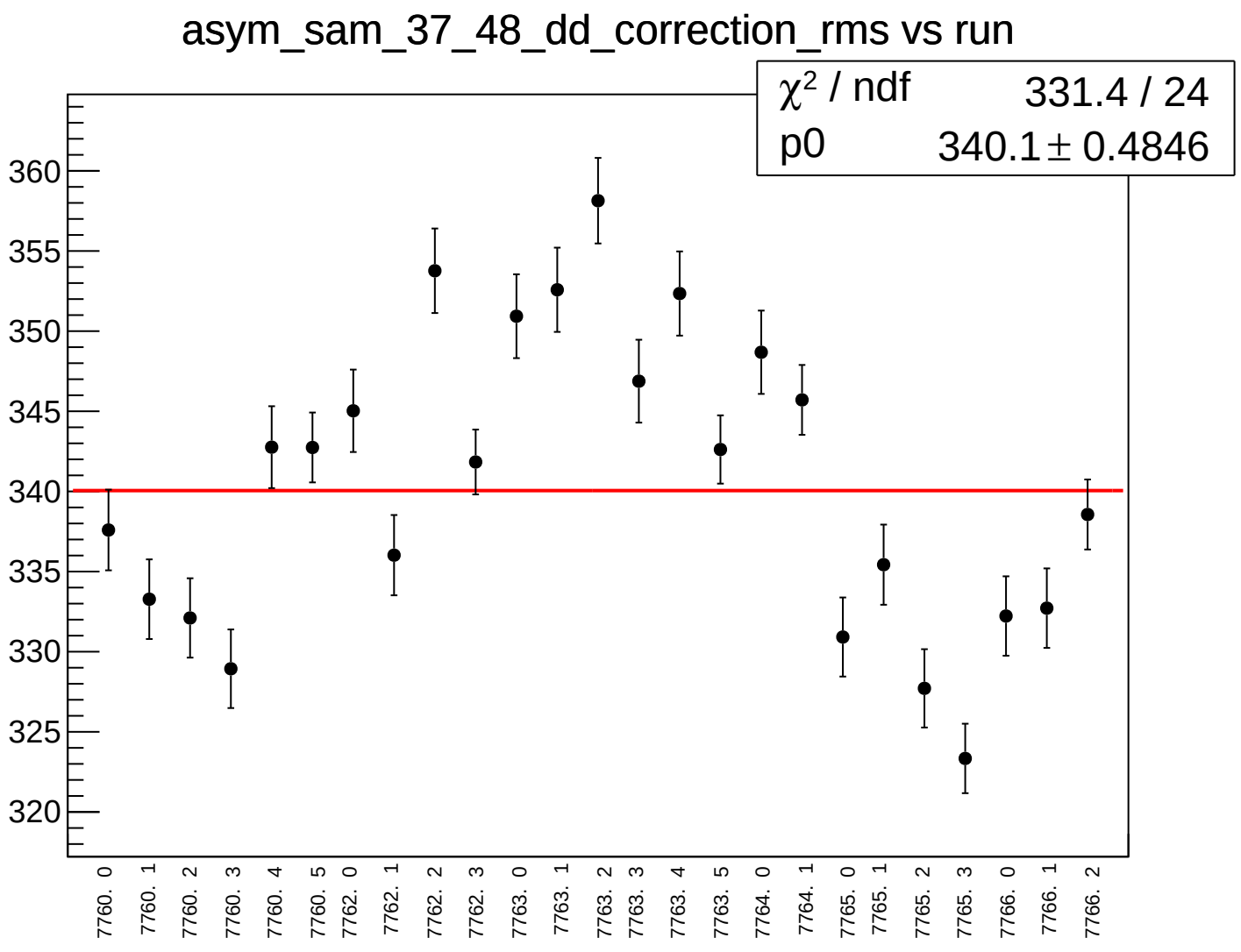

dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 14.77 / 24
p0 133.9 ± 153.2
2000
1500
1000
500
0
−500
−1000
−1500
−2000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 124.9
Std Dev 110.6
1
0.5
0
−0.5
−1
−1.5

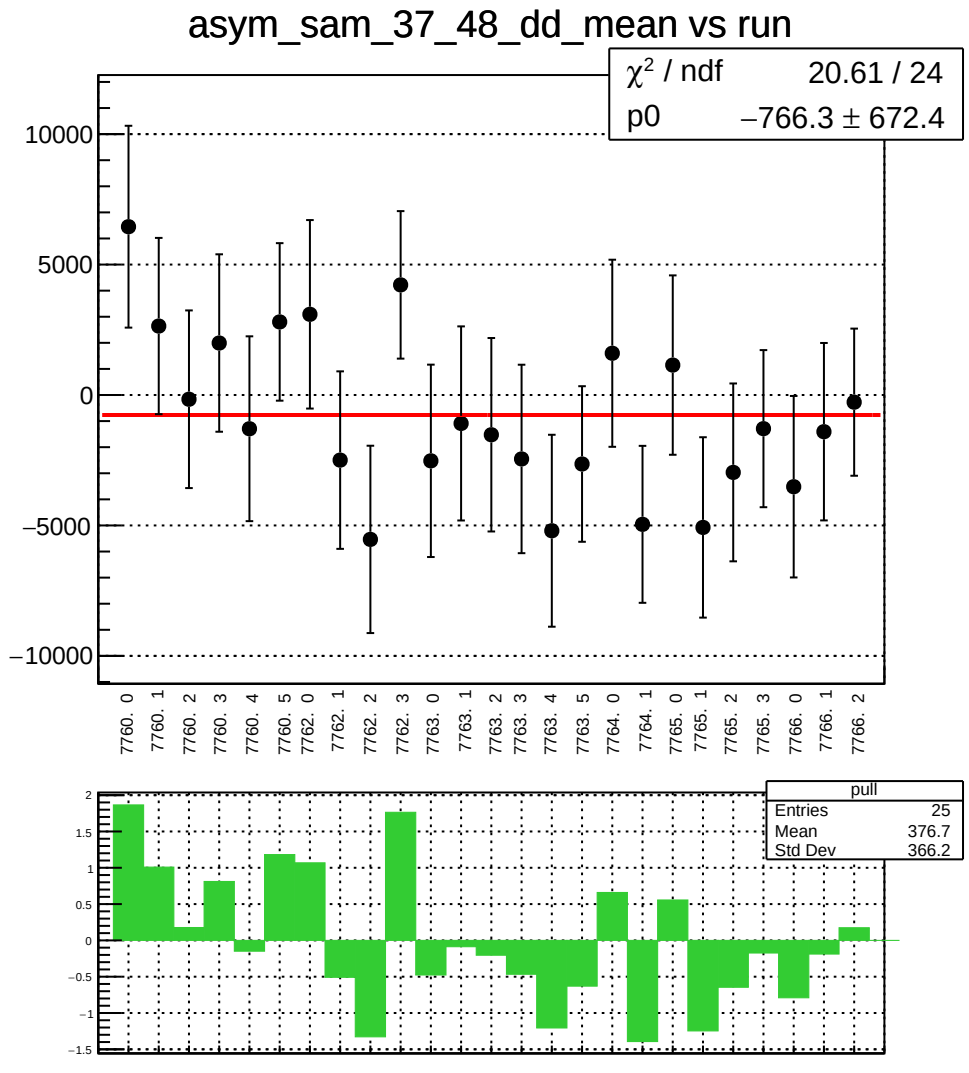

pull1D
Entries 25
Mean −0.007554
Std Dev 0.7685
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

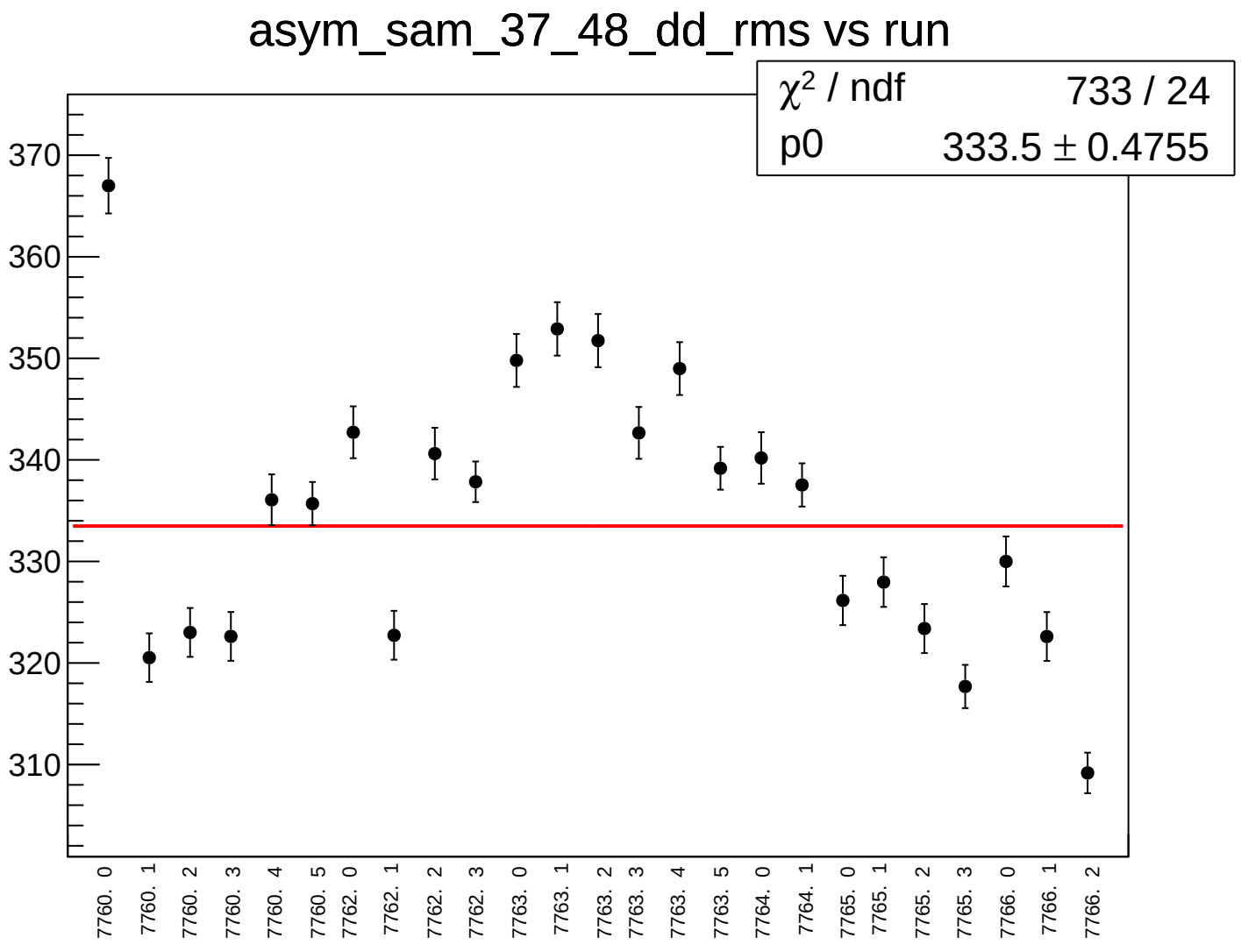

dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 2768 / 24
p0 75.81 ± 0.1083
100
95
90
85
80
75
70
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

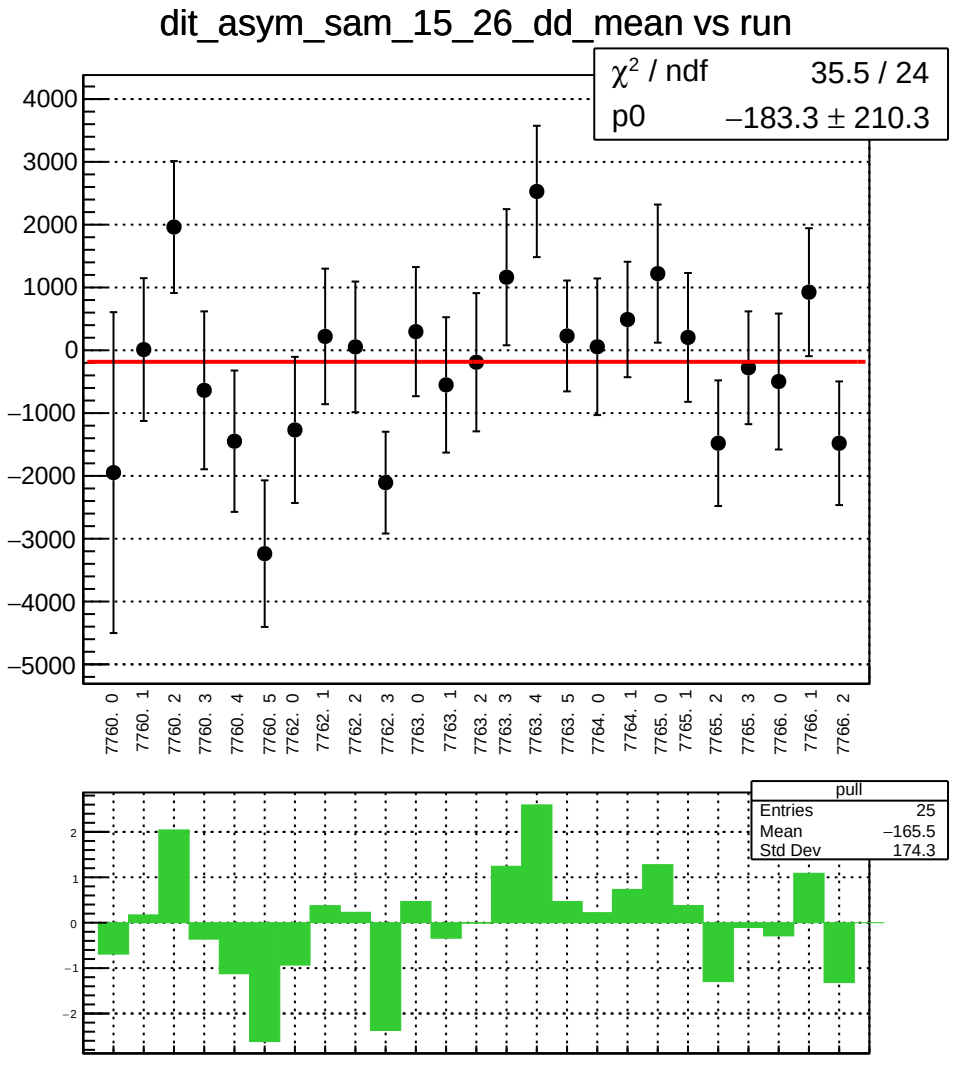

asym_sam_37_48_dd_correction_mean vs run
χ² / ndf 19.41 / 24
p0 854.3 ± 685.4
10000
5000
0
−5000
−10000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 251.3
Std Dev 241
1.5
1
0.5
0
−0.5
−1
−1.5
−2

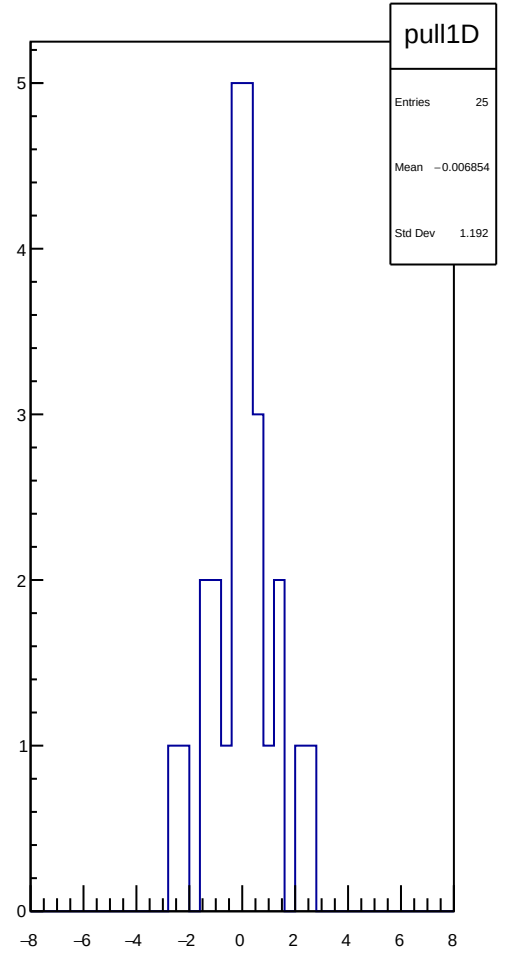

pull1D
Entries 25
Mean 0.01314
Std Dev 0.8809
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

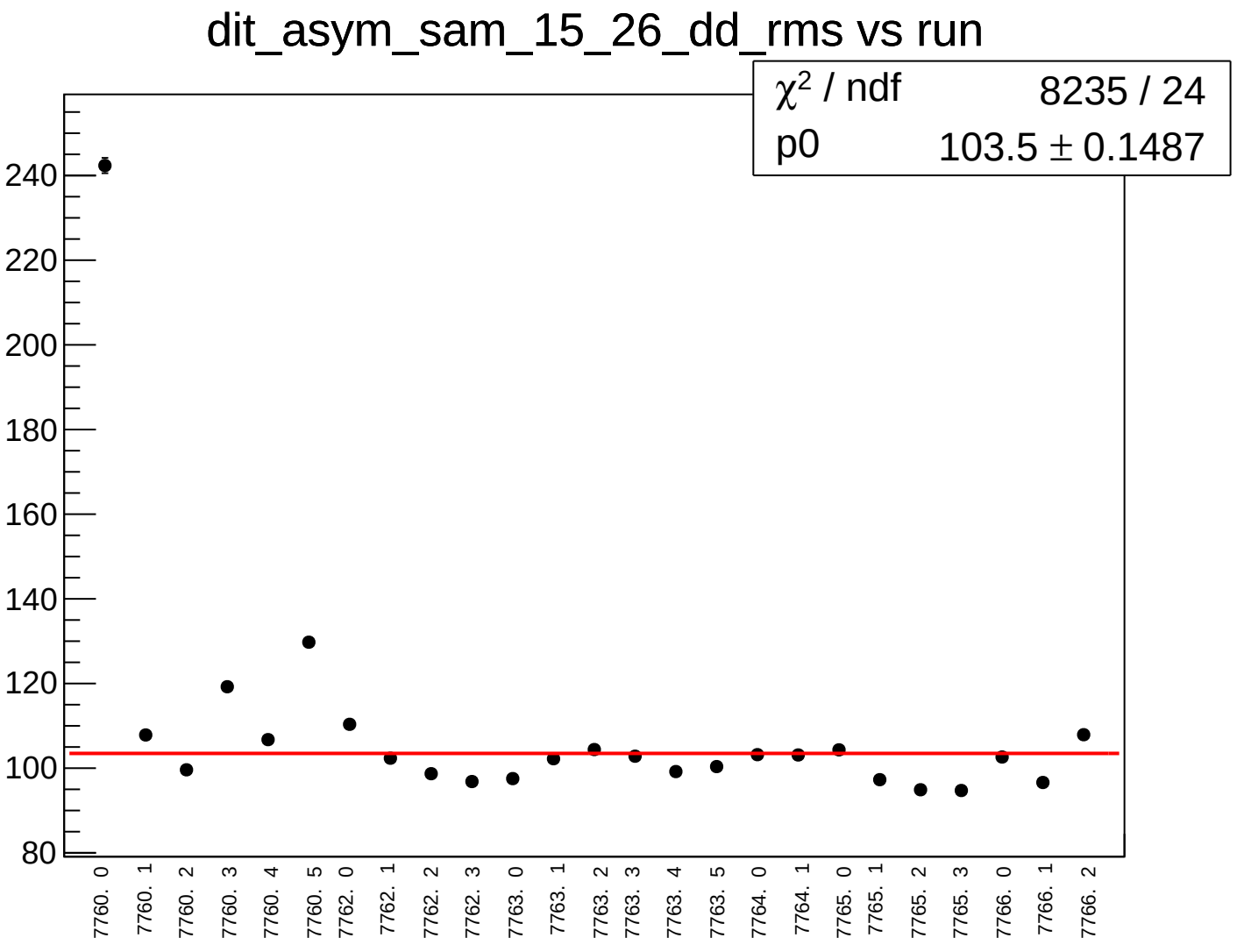

asym_sam_37_48_dd_correction_rms vs run
χ² / ndf 331.4 / 24
p0 340.1 ± 0.4846
360
355
350
345
340
335
330
325
320
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

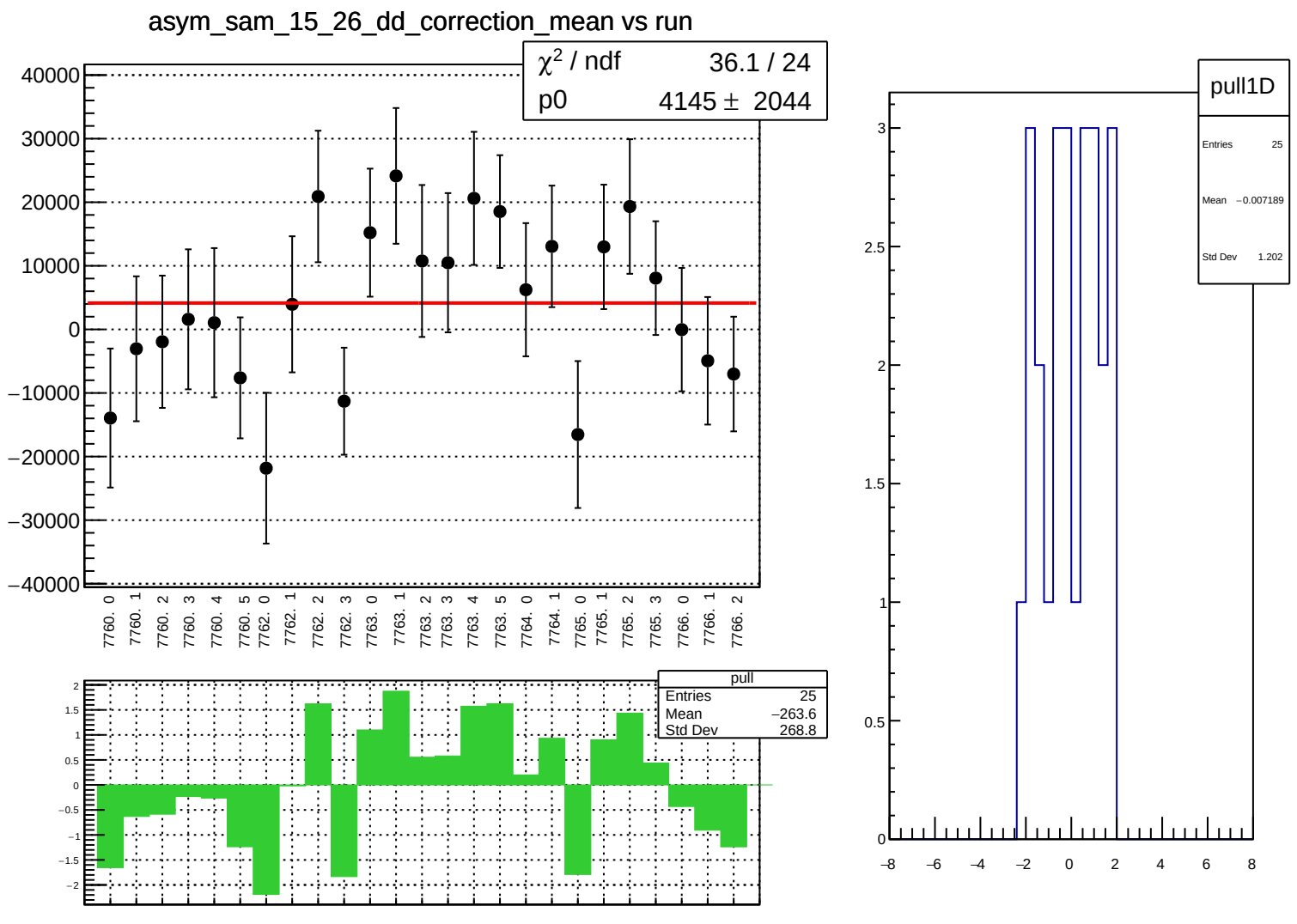

asym_sam_37_48_dd_mean vs run
χ² / ndf 20.61 / 24
p0 −766.3 ± 672.4
10000
5000
0
−5000
−10000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 376.7
Std Dev 366.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 25
Mean −0.008957
Std Dev 0.9078
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

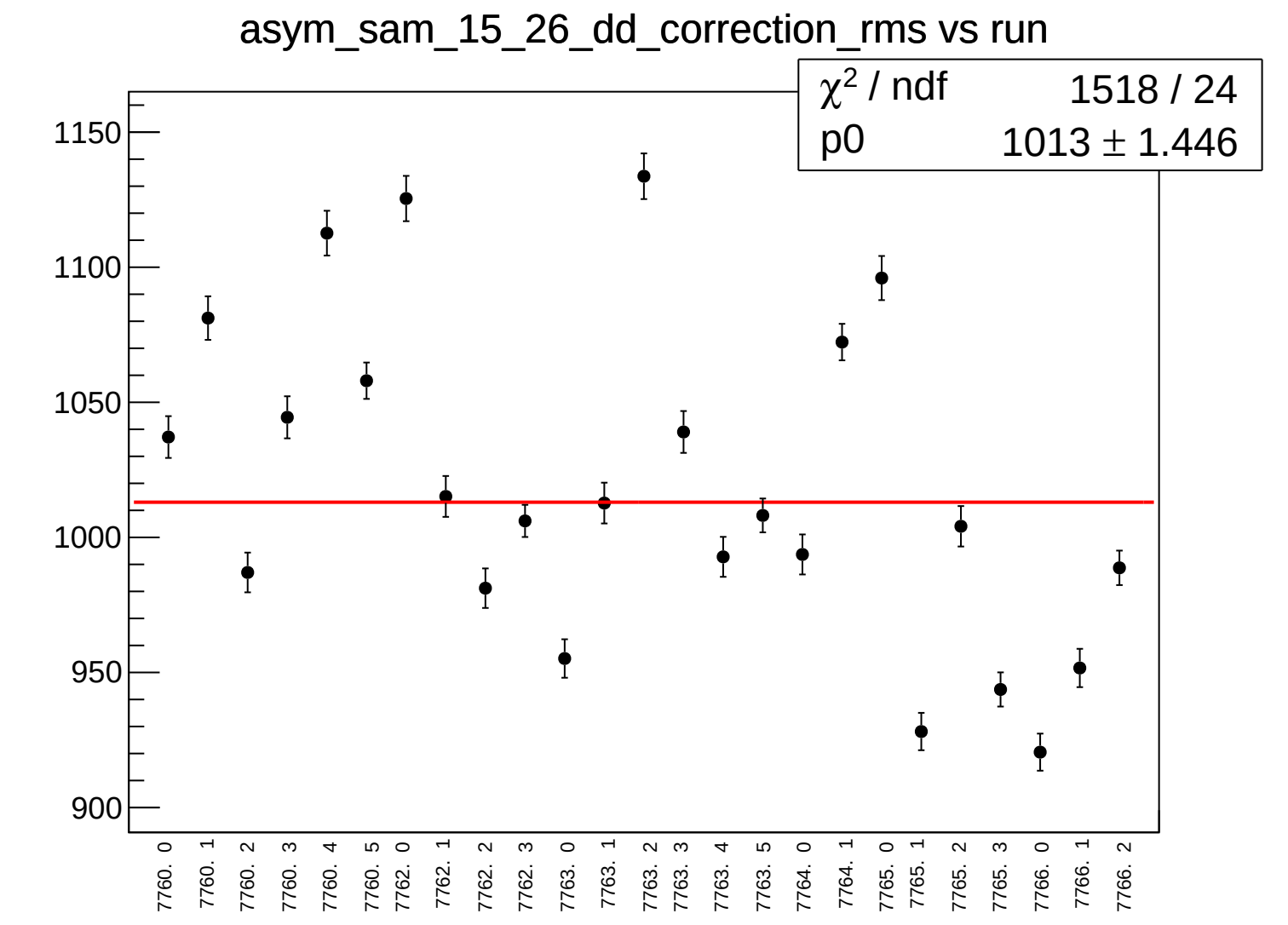

asym_sam_37_48_dd_rms vs run
χ² / ndf 733 / 24
p0 333.5 ± 0.4755
370
360
350
340
330
320
310
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

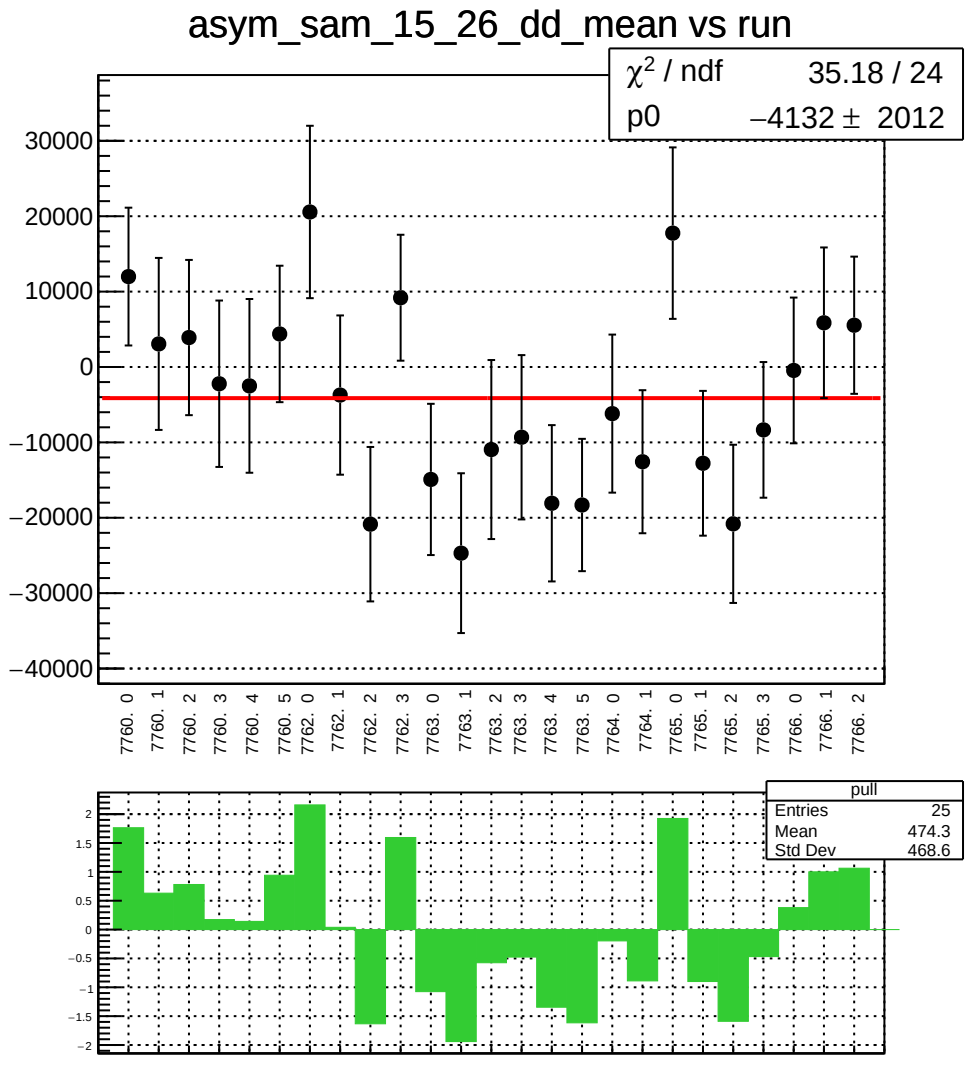

dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 35.5 / 24
p0 −183.3 ± 210.3
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −165.5
Std Dev 174.3
2
1
0
−1
−2

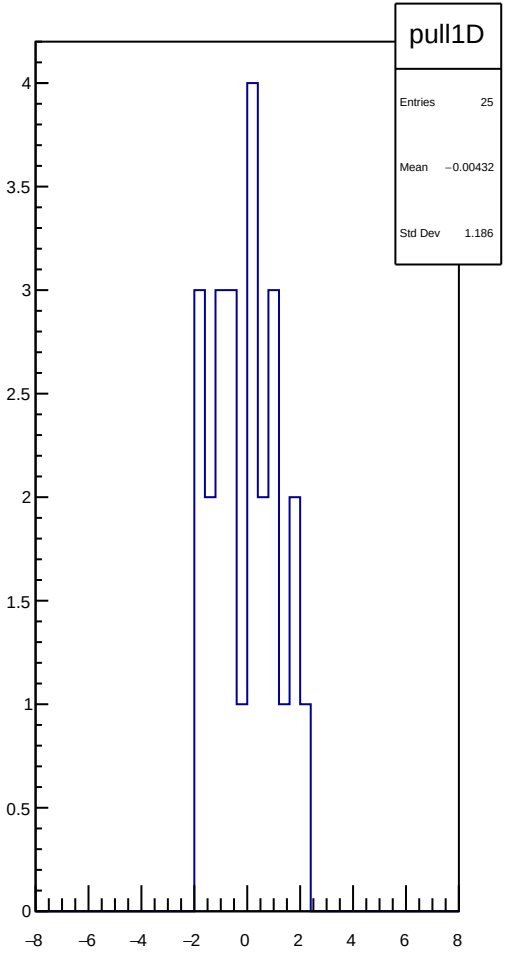

pull1D
Entries 25
Mean −0.006854
Std Dev 1.192
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

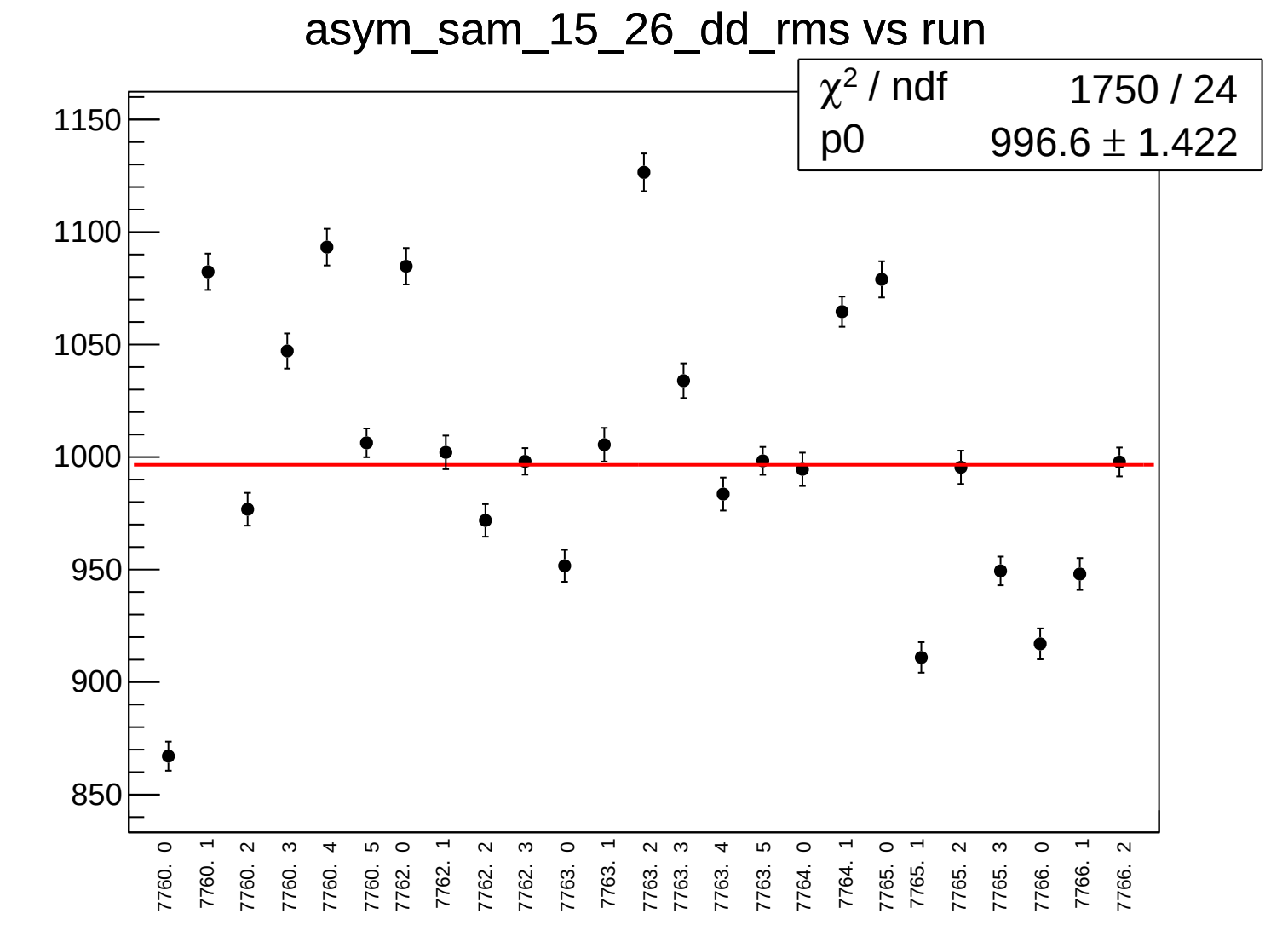

dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 8235 / 24
p0 103.5 ± 0.1487
240
220
200
180
160
140
120
100
80
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

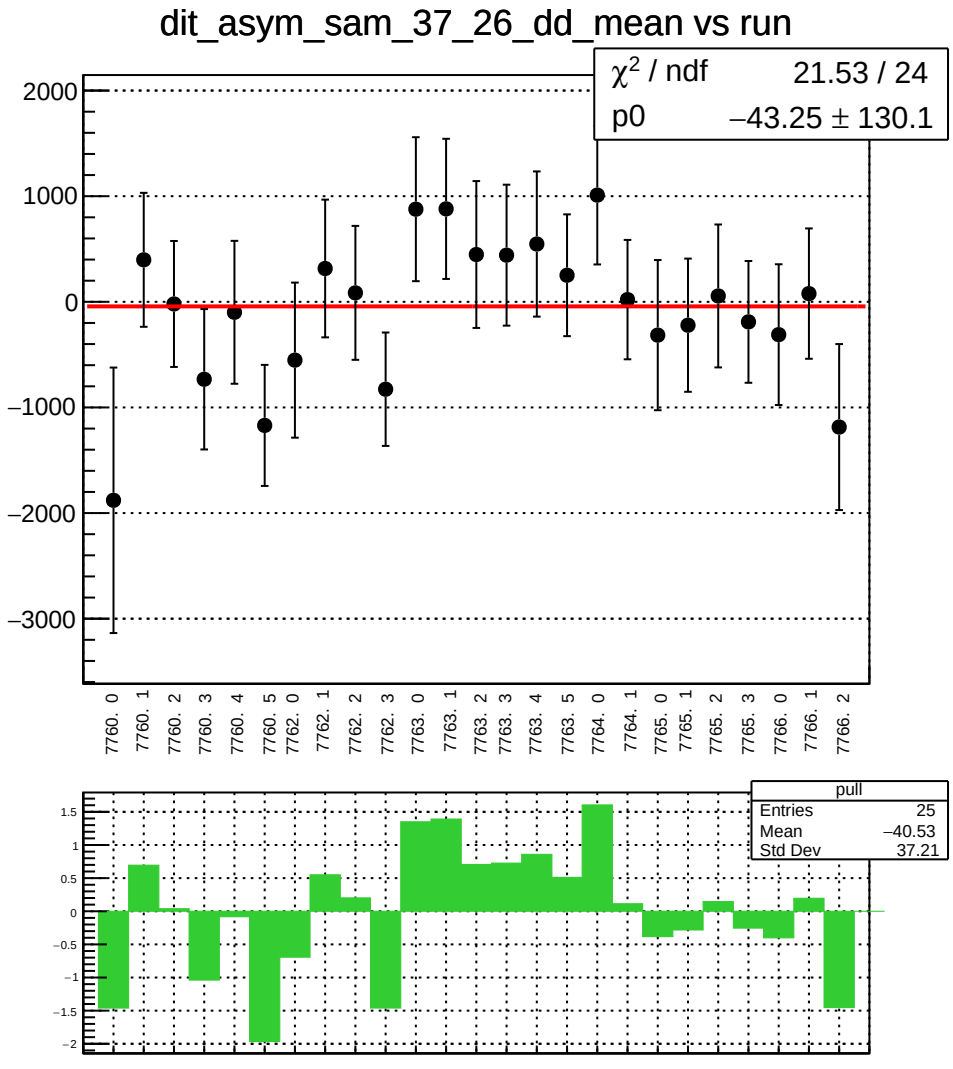

asym_sam_15_26_dd_correction_mean vs run
χ² / ndf 36.1 / 24
p0 4145 ± 2044
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −263.6
Std Dev 268.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 25
Mean −0.007189
Std Dev 1.202
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

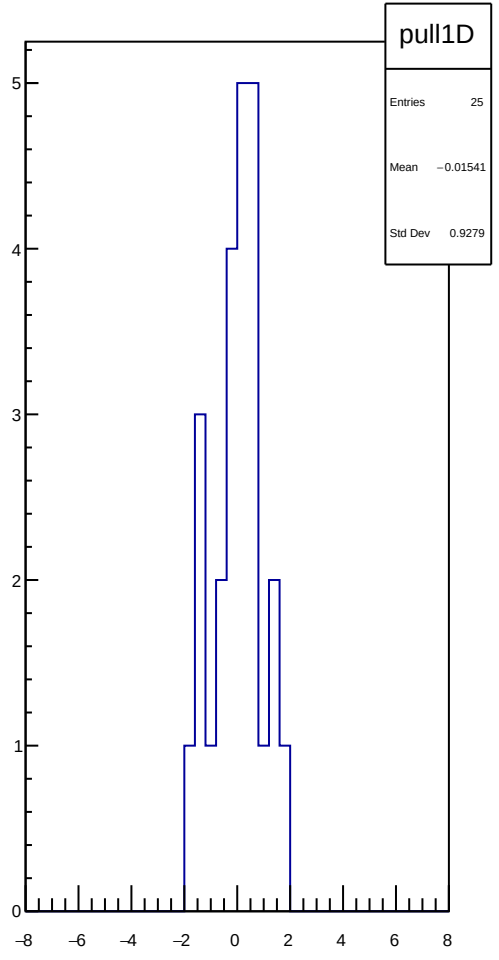

asym_sam_15_26_dd_correction_rms vs run
χ² / ndf 1518 / 24
p0 1013 ± 1.446
1150
1100
1050
1000
950
900
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

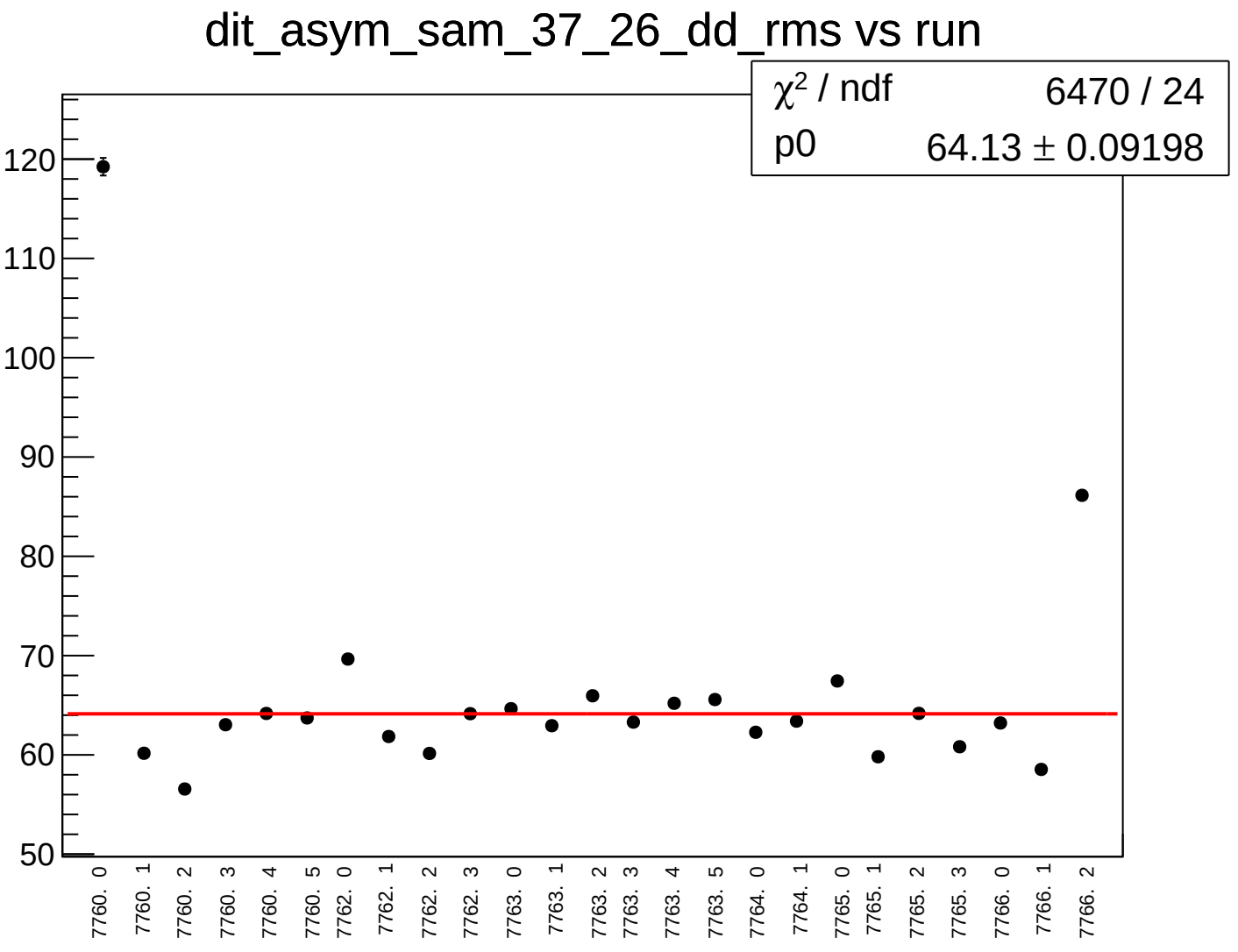

asym_sam_15_26_dd_mean vs run
χ² / ndf 35.18 / 24
p0 −4132 ± 2012
30000
20000
10000
0
−10000
−20000
−30000
−40000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 474.3
Std Dev 468.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

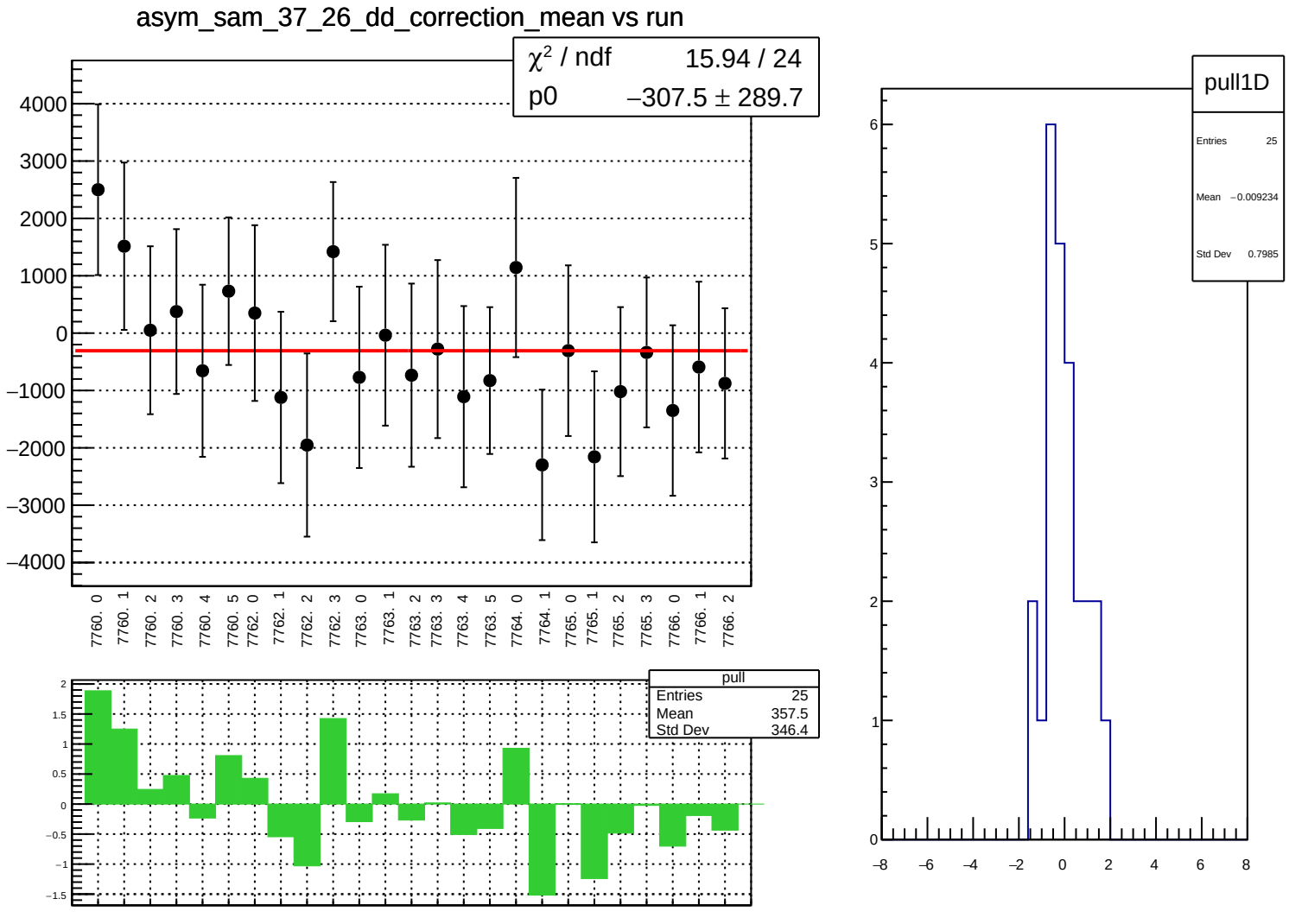

pull1D
Entries 25
Mean −0.00432
Std Dev 1.186
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

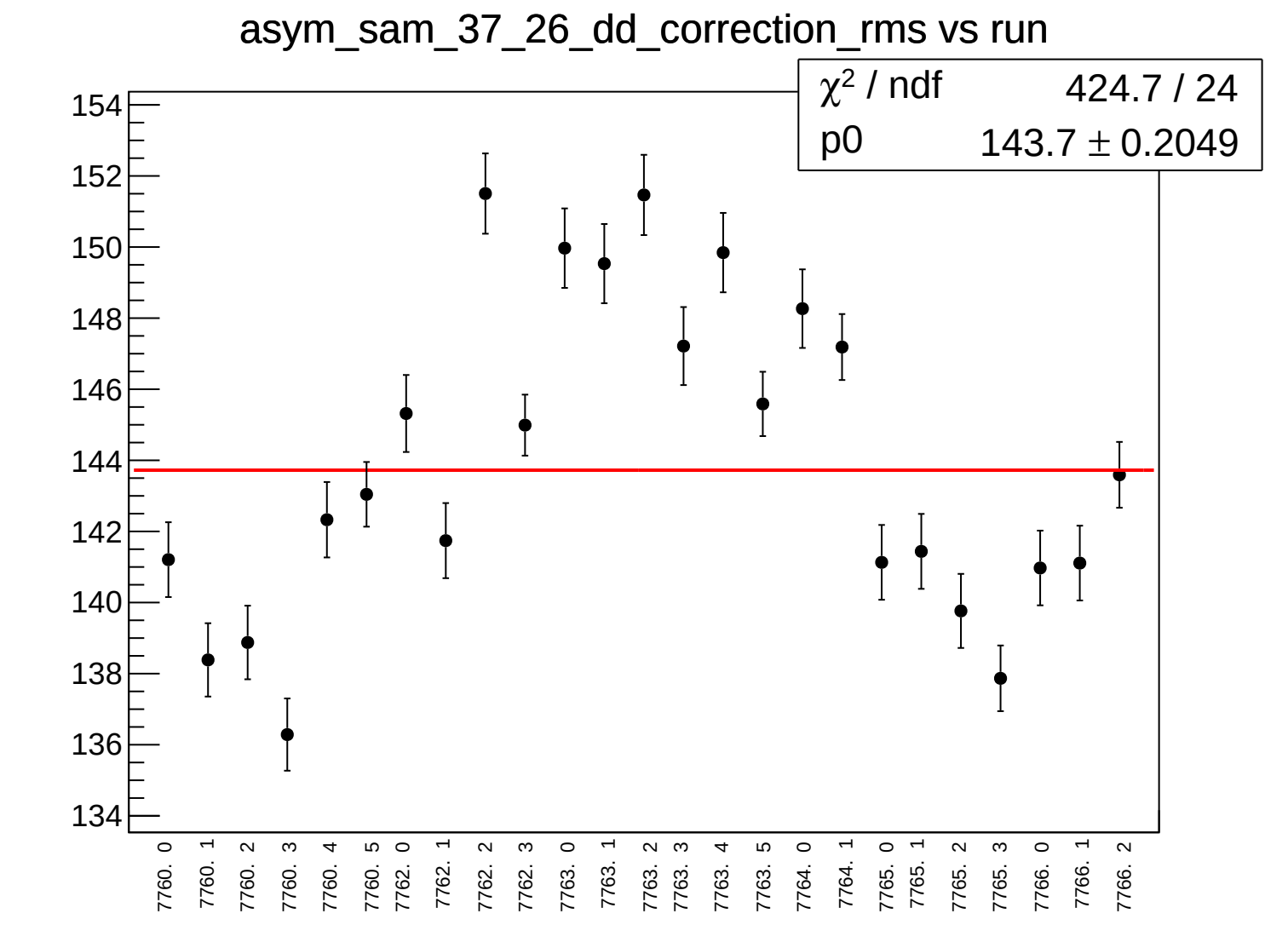

asym_sam_15_26_dd_rms vs run
χ² / ndf 1750 / 24
p0 996.6 ± 1.422
1150
1100
1050
1000
950
900
850
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

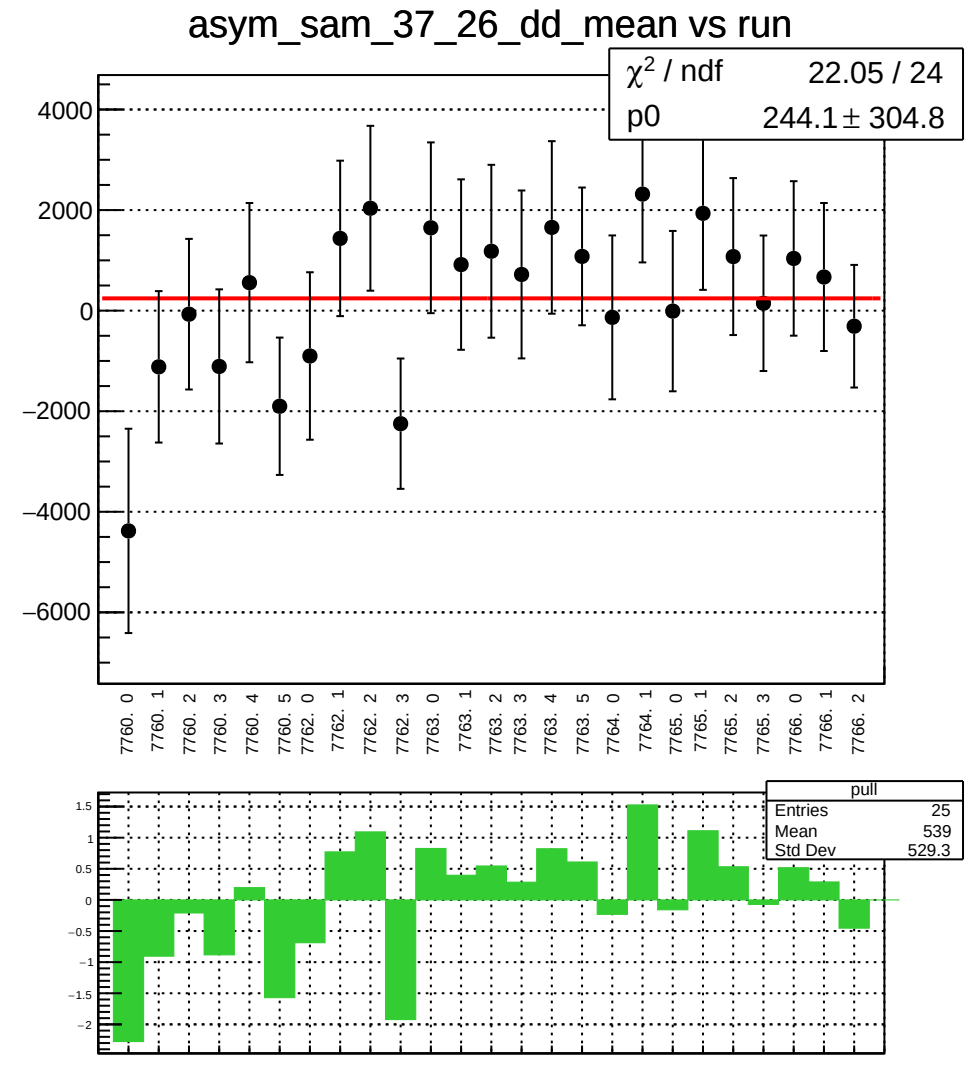

dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 21.53 / 24
p0 −43.25 ± 130.1
2000
1000
0
−1000
−2000
−3000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −40.53
Std Dev 37.21
1.5
1
0.5
0
−0.5
−1
−1.5
−2

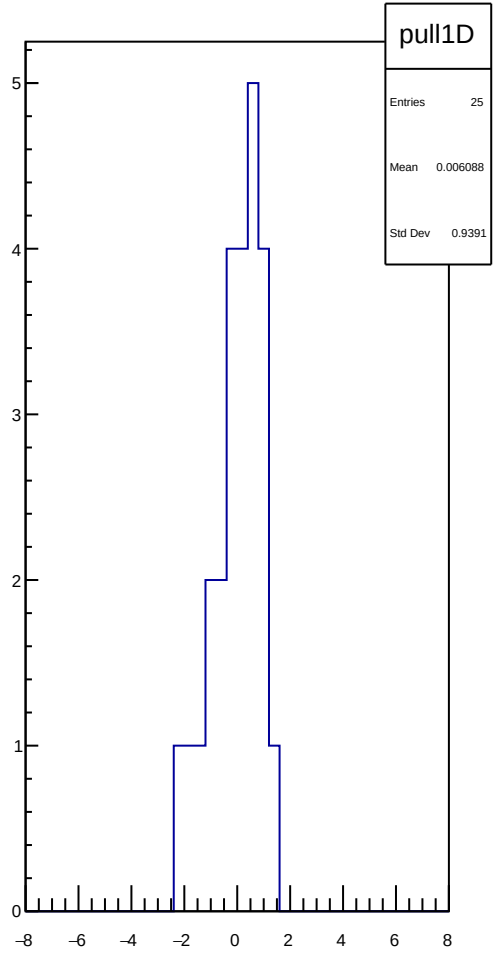

pull1D
Entries 25
Mean −0.01541
Std Dev 0.9279
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

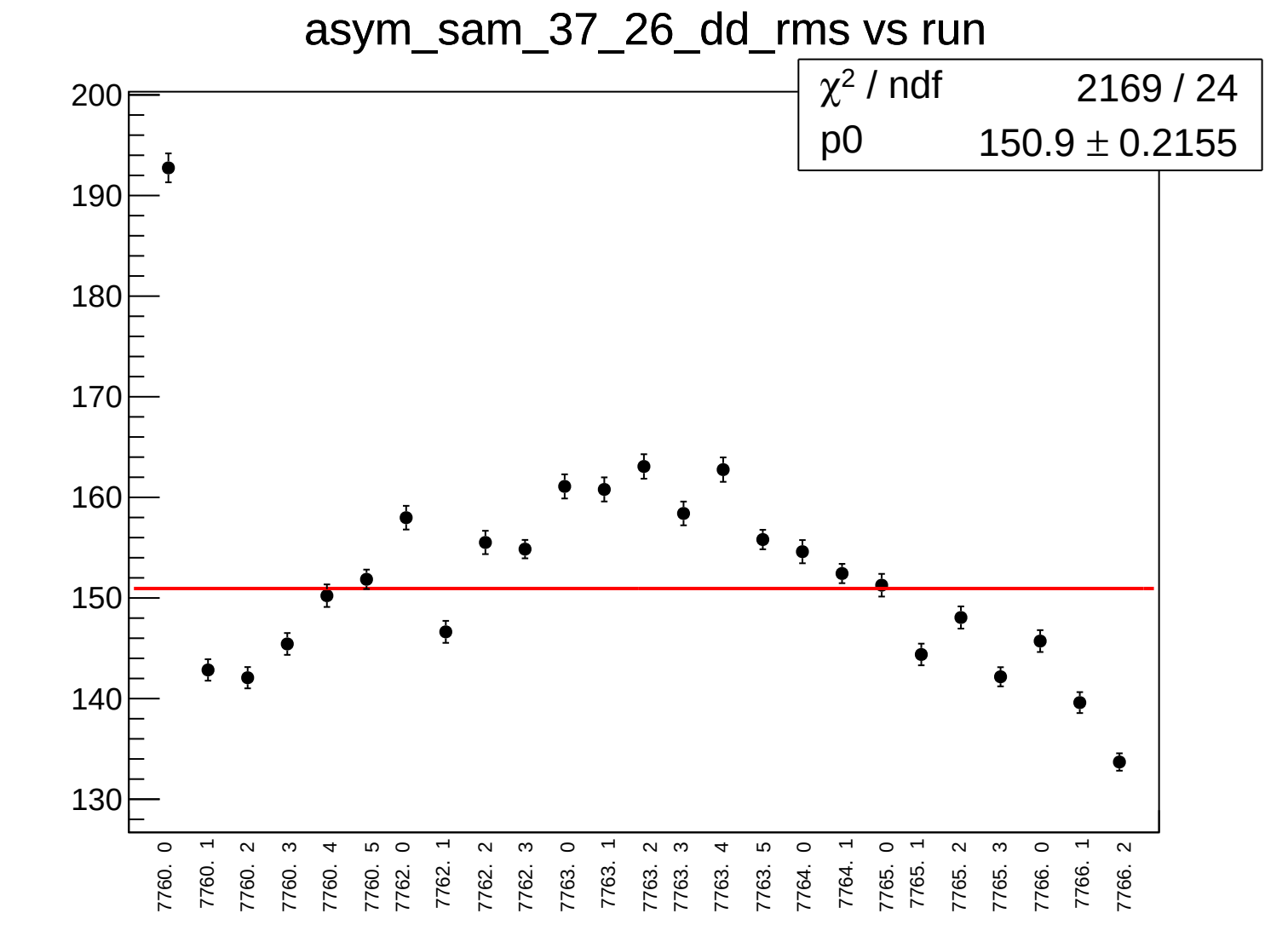

dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 6470 / 24
p0 64.13 ± 0.09198
120
110
100
90
80
70
60
50
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

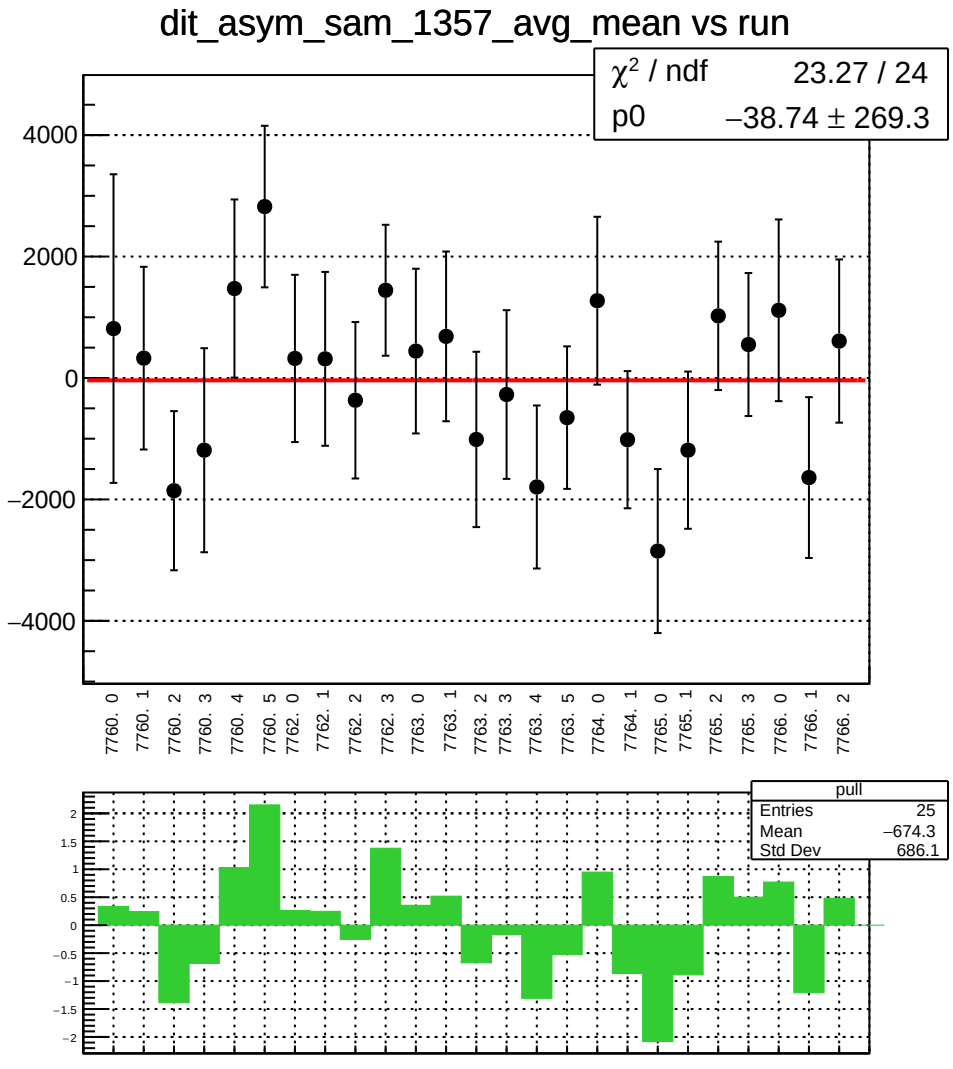

asym_sam_37_26_dd_correction_mean vs run
χ² / ndf 15.94 / 24
p0 −307.5 ± 289.7
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 357.5
Std Dev 346.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 25
Mean −0.009234
Std Dev 0.7985
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

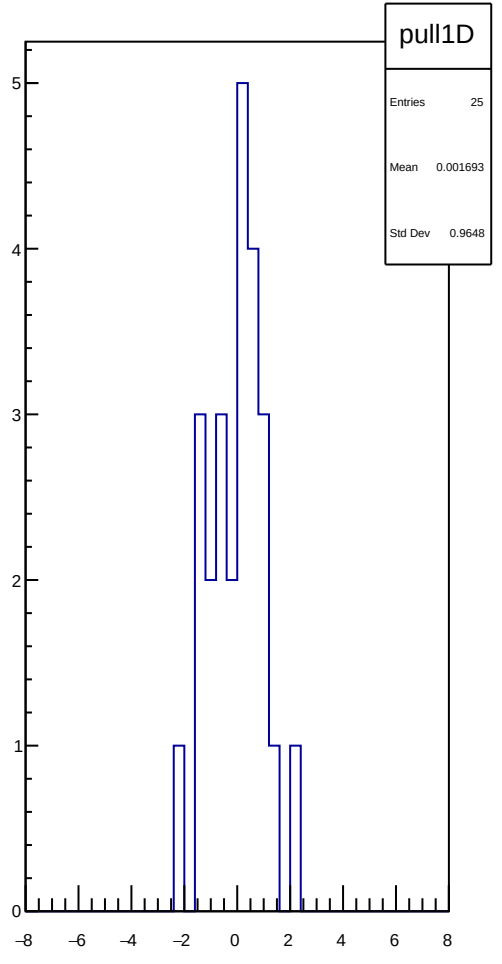

asym_sam_37_26_dd_correction_rms vs run
χ² / ndf 424.7 / 24
p0 143.7 ± 0.2049
154
152
150
148
146
144
142
140
138
136
134
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

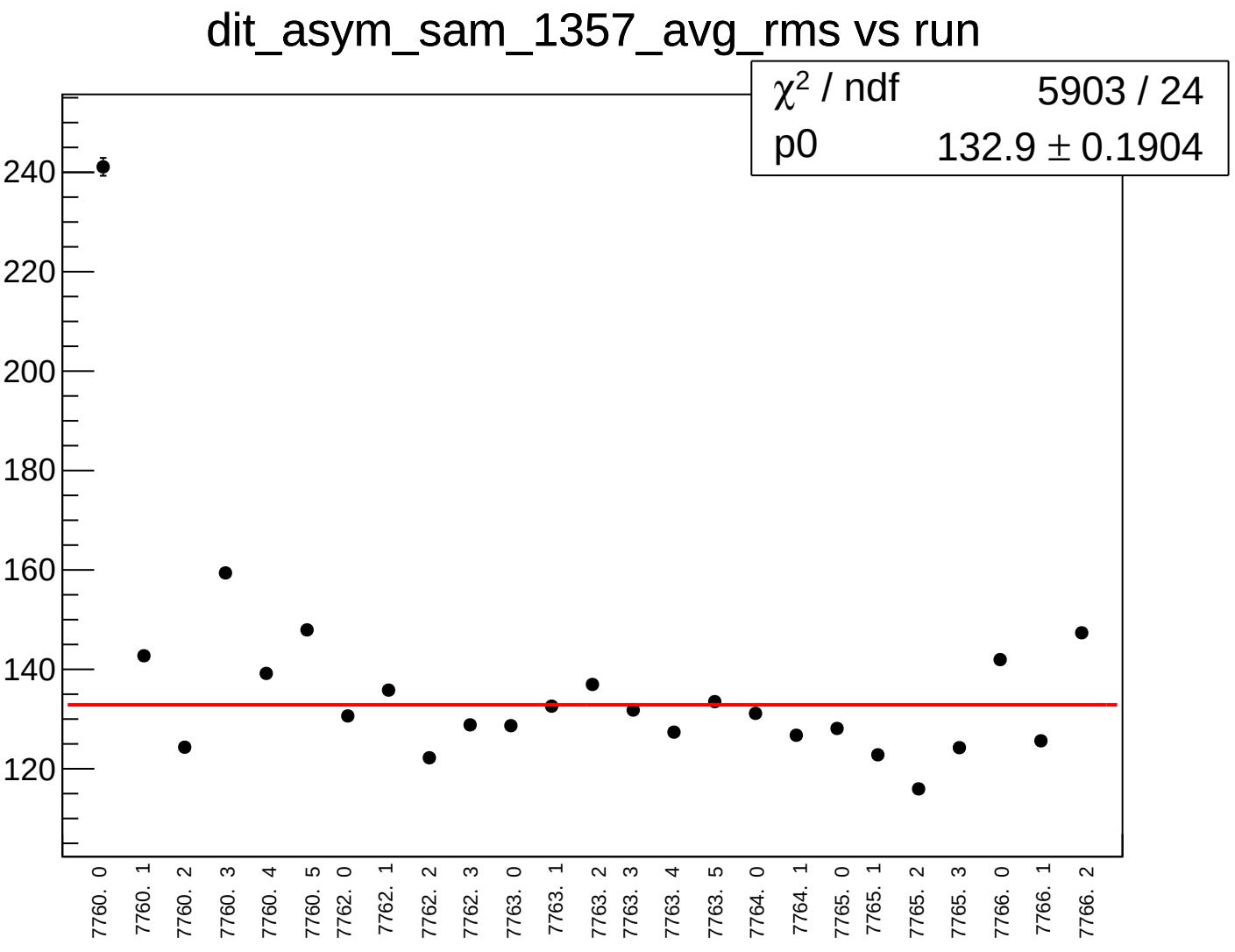

asym_sam_37_26_dd_mean vs run
χ² / ndf 22.05 / 24
p0 244.1 ± 304.8
4000
2000
0
−2000
−4000
−6000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 539
Std Dev 529.3
1.5
1
0.5
0
−0.5
−1
−1.5
−2

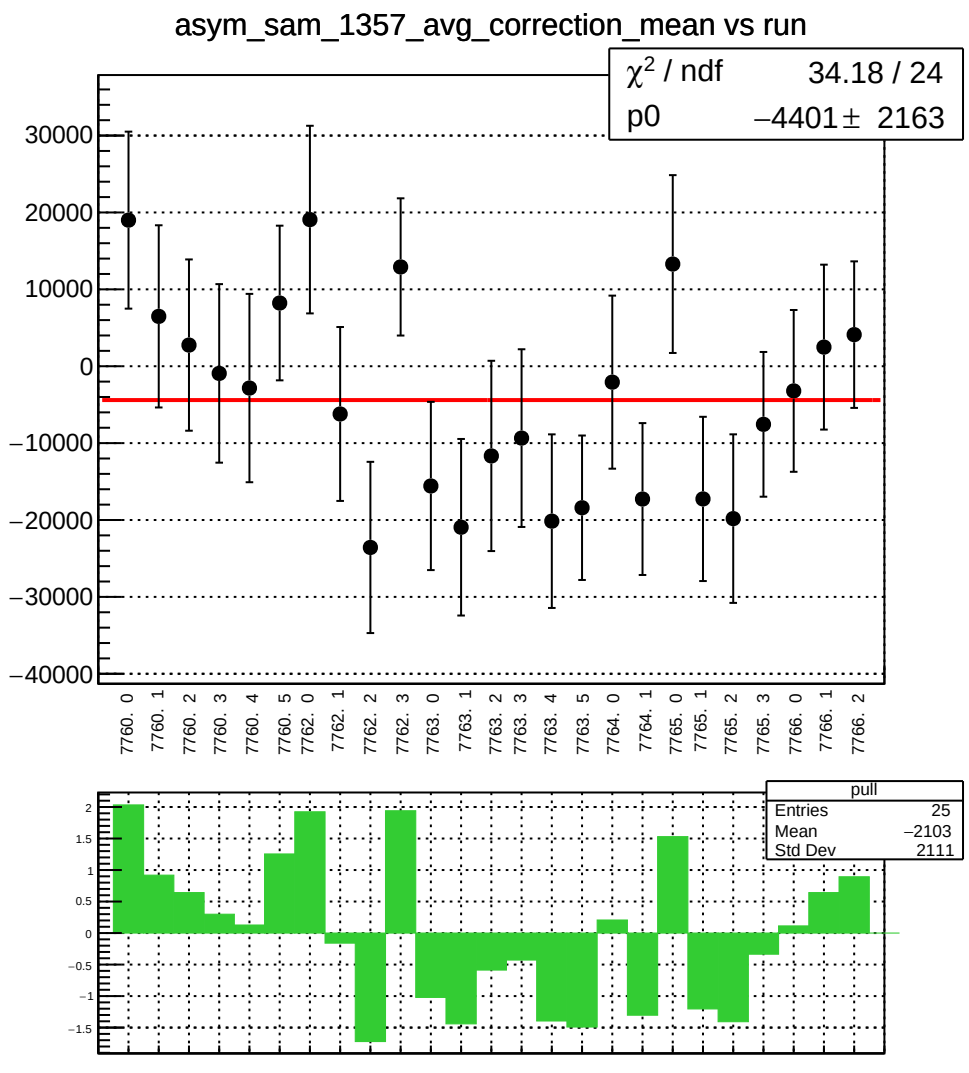

pull1D
Entries 25
Mean 0.006088
Std Dev 0.9391
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

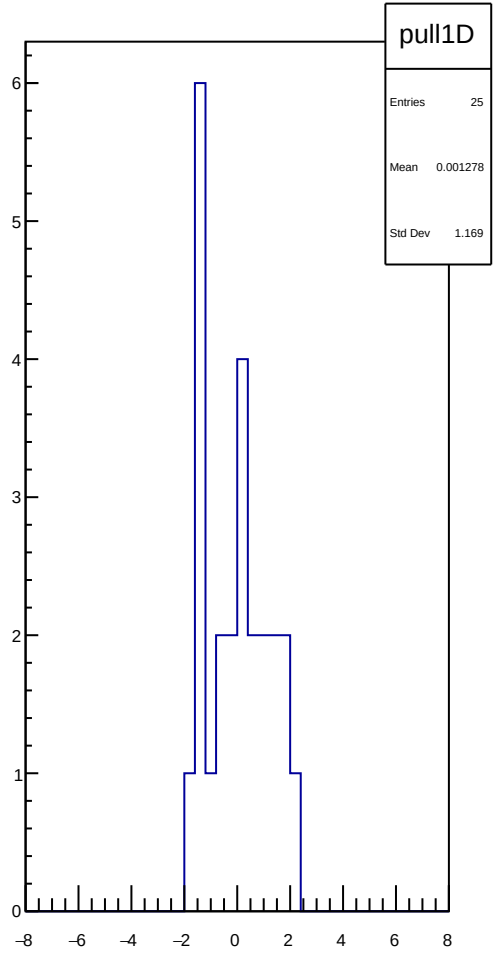

asym_sam_37_26_dd_rms vs run
χ² / ndf 2169 / 24
p0 150.9 ± 0.2155
200
190
180
170
160
150
140
130
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

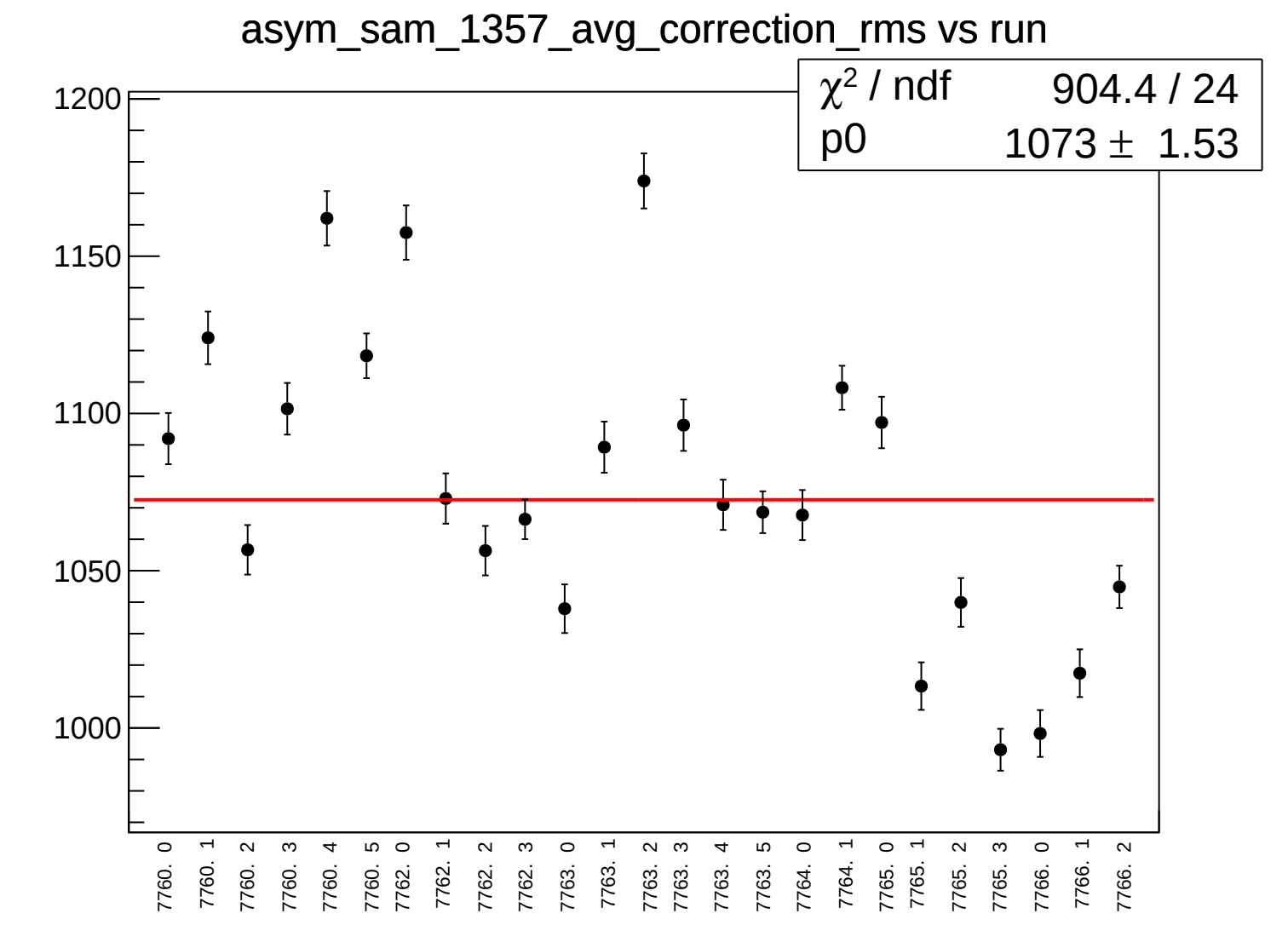

dit_asym_sam_1357_avg_mean vs run
χ² / ndf 23.27 / 24
p0 −38.74 ± 269.3
4000
2000
0
−2000
−4000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −674.3
Std Dev 686.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

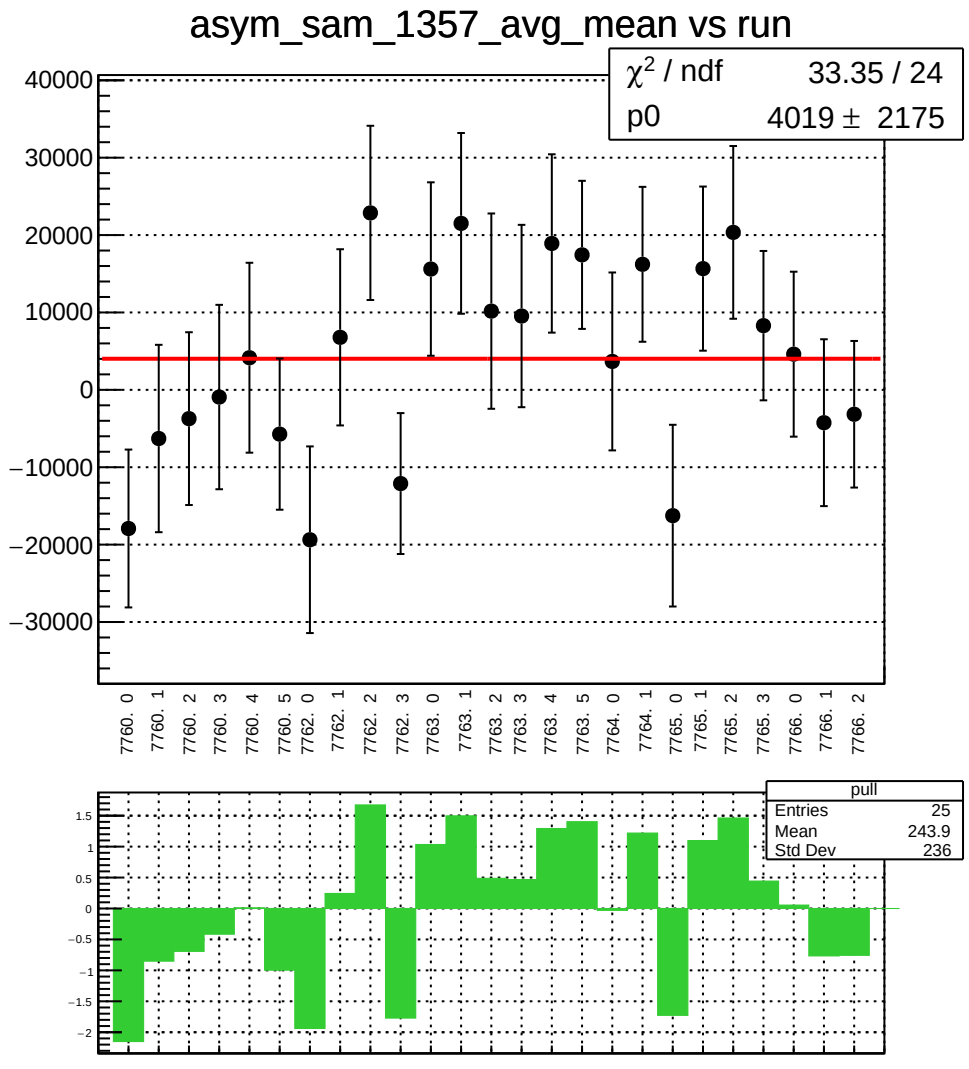

pull1D
Entries 25
Mean 0.001693
Std Dev 0.9648
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

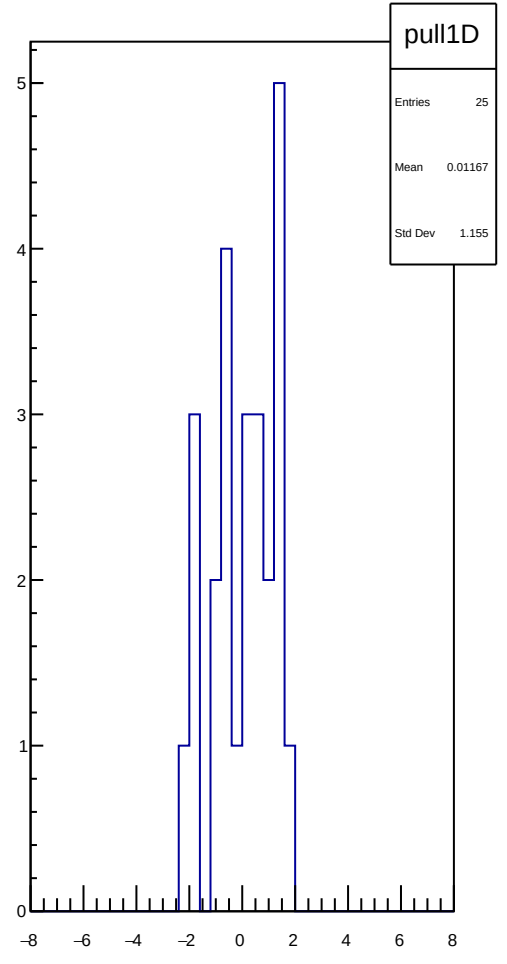

dit_asym_sam_1357_avg_rms vs run
χ² / ndf 5903 / 24
p0 132.9 ± 0.1904
240
220
200
180
160
140
120
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

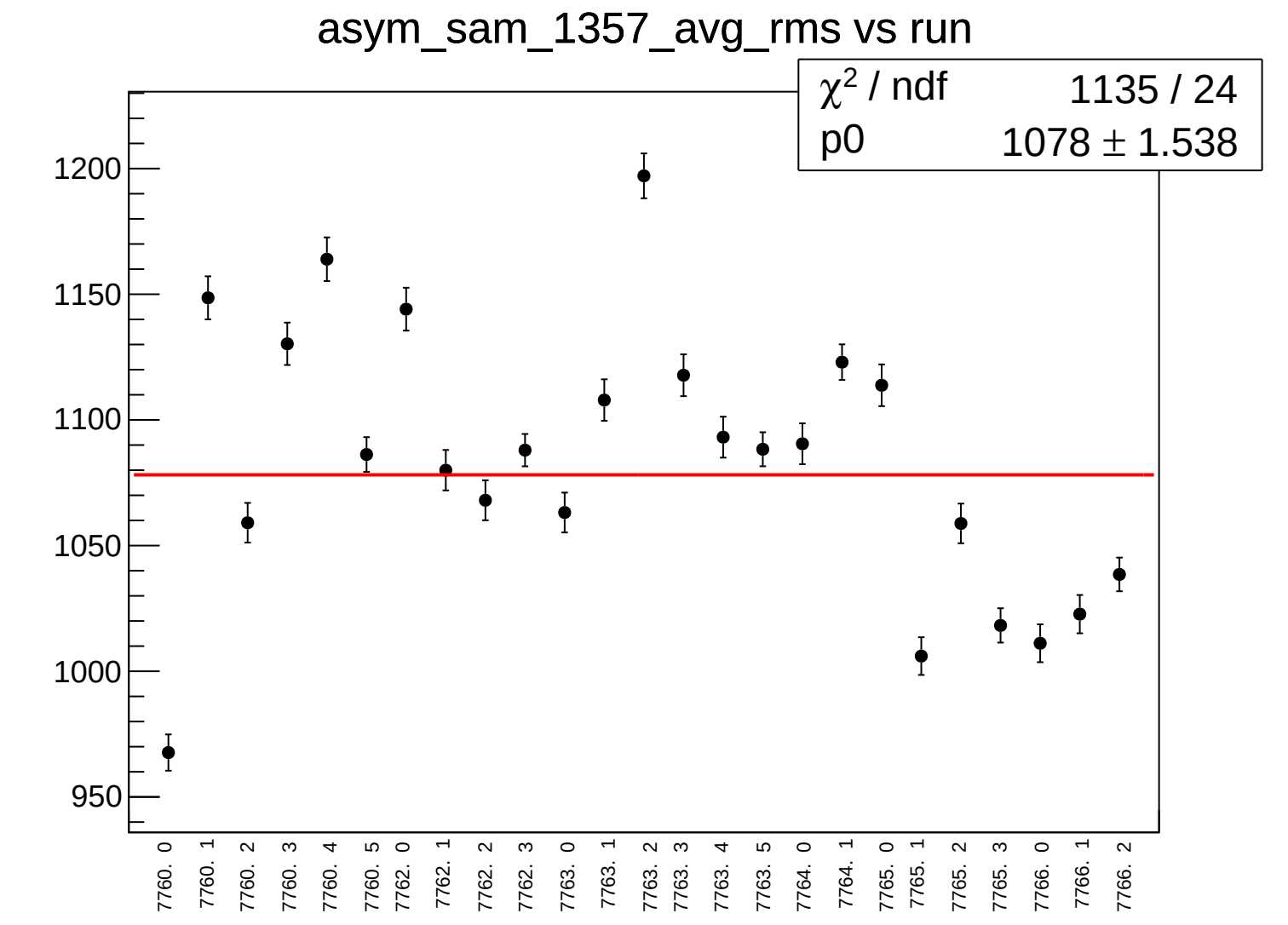

asym_sam_1357_avg_correction_mean vs run
χ² / ndf 34.18 / 24
p0 −4401 ± 2163
30000
20000
10000
0
−10000
−20000
−30000
−40000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −2103
Std Dev 2111
2
1.5
1
0.5
0
−0.5
−1
−1.5

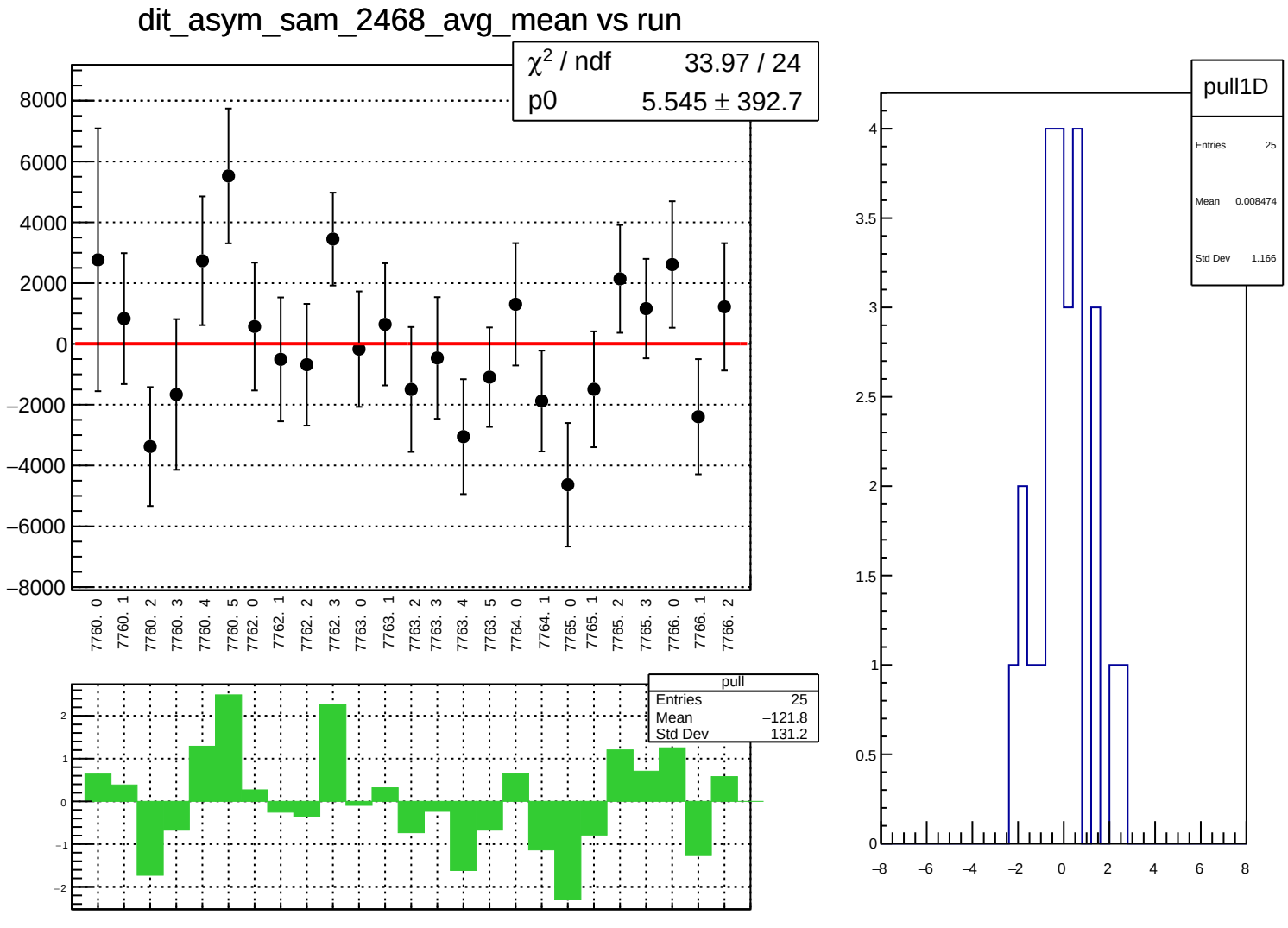

pull1D
Entries 25
Mean 0.001278
Std Dev 1.169
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

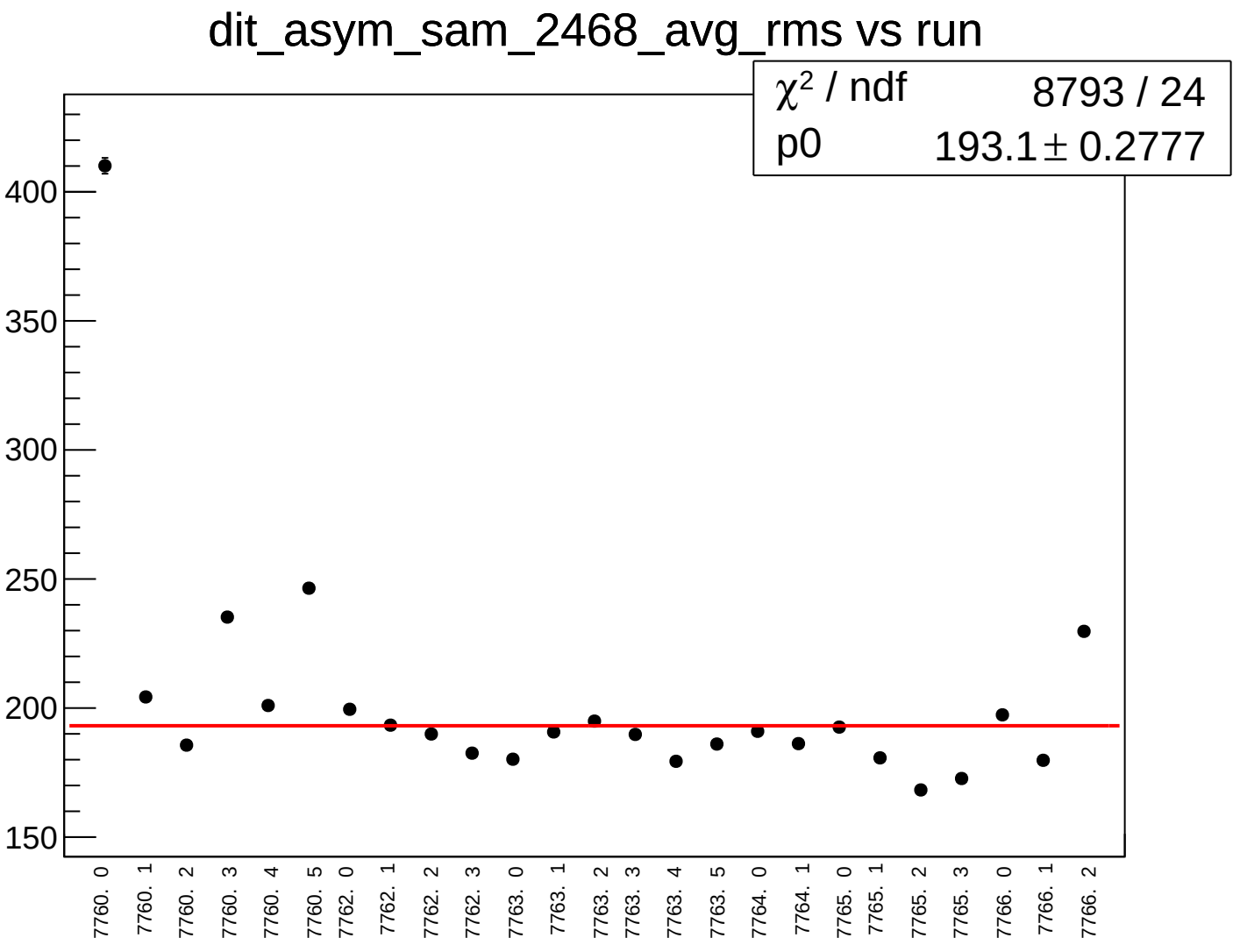

asym_sam_1357_avg_correction_rms vs run
χ² / ndf 904.4 / 24
p0 1073 ± 1.53
1200
1150
1100
1050
1000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

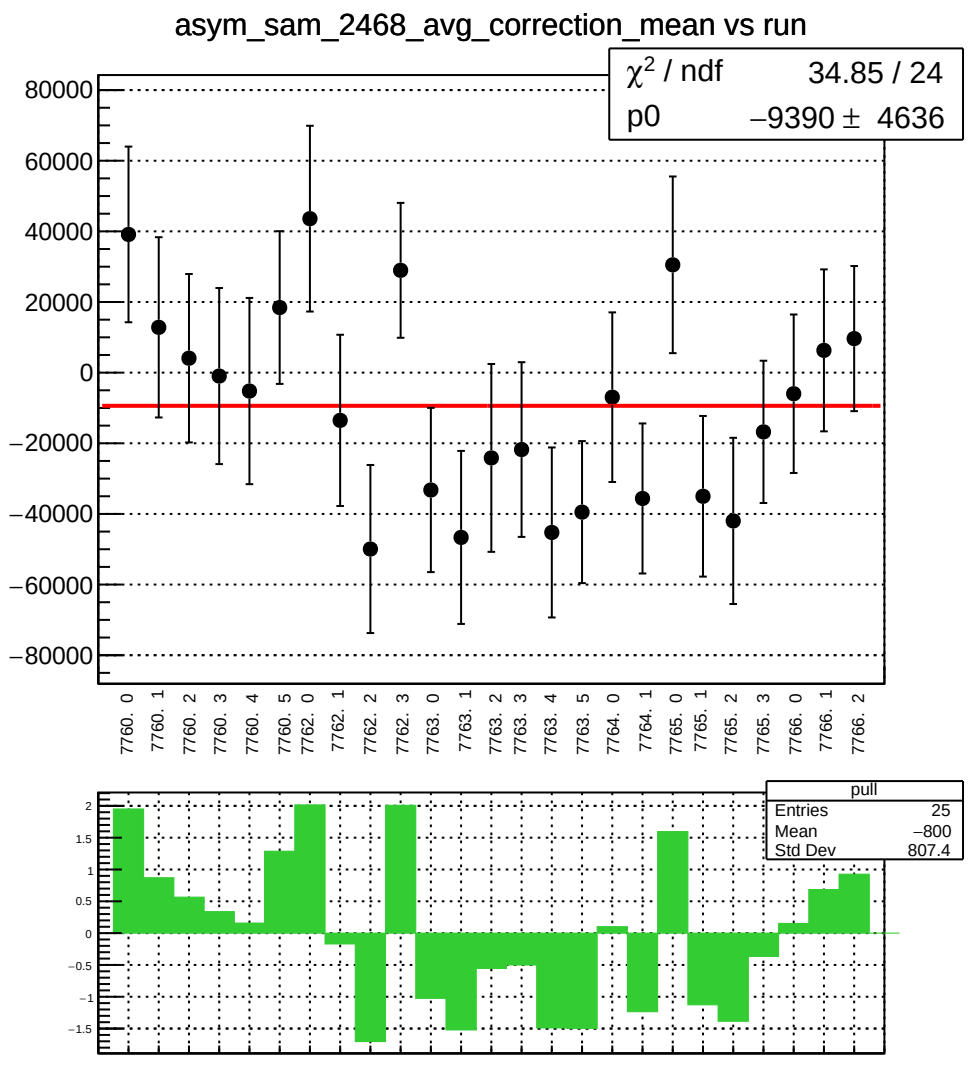

asym_sam_1357_avg_mean vs run
χ² / ndf 33.35 / 24
p0 4019 ± 2175
40000
30000
20000
10000
0
−10000
−20000
−30000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 243.9
Std Dev 236
1.5
1
0.5
0
−0.5
−1
−1.5
−2

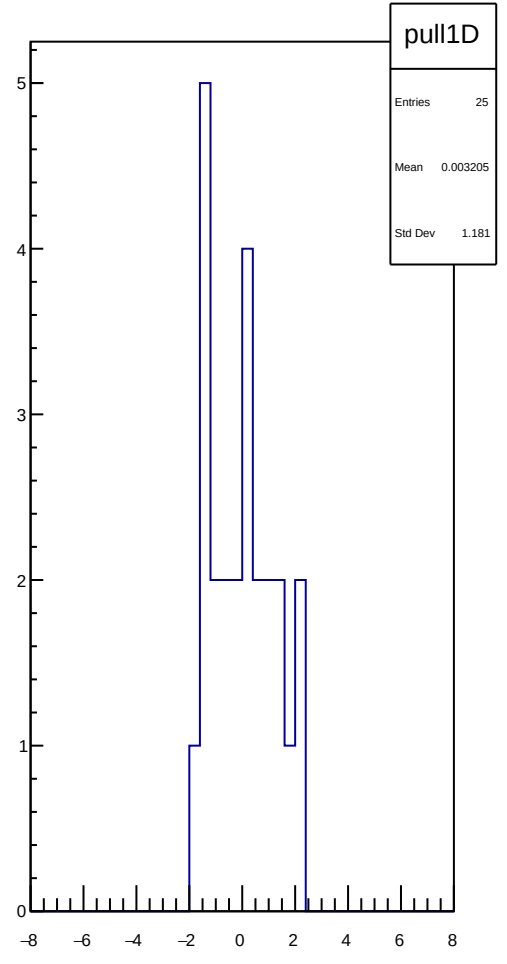

pull1D
Entries 25
Mean 0.01167
Std Dev 1.155
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

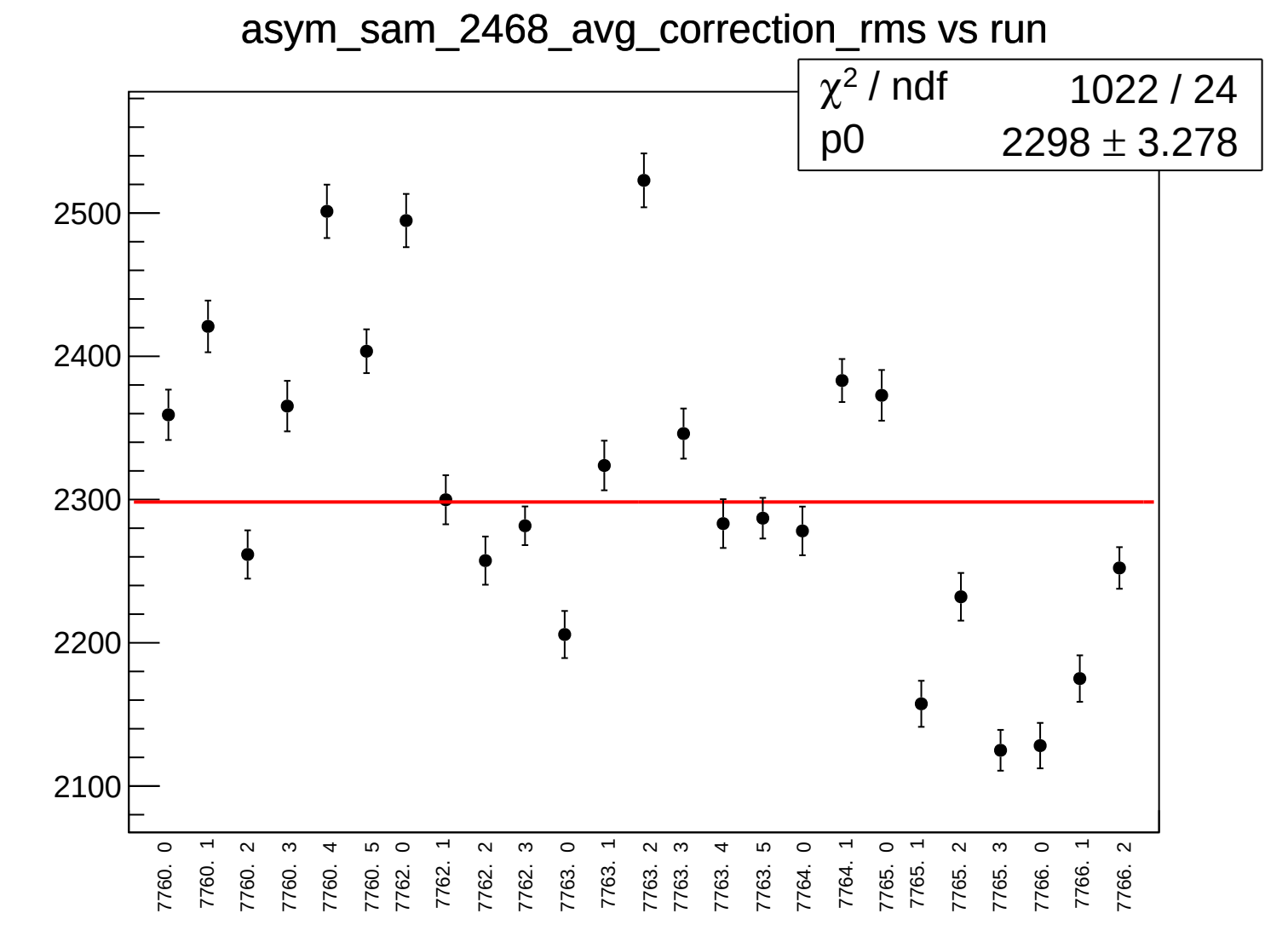

asym_sam_1357_avg_rms vs run
χ² / ndf 1135 / 24
p0 1078 ± 1.538
1200
1150
1100
1050
1000
950
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

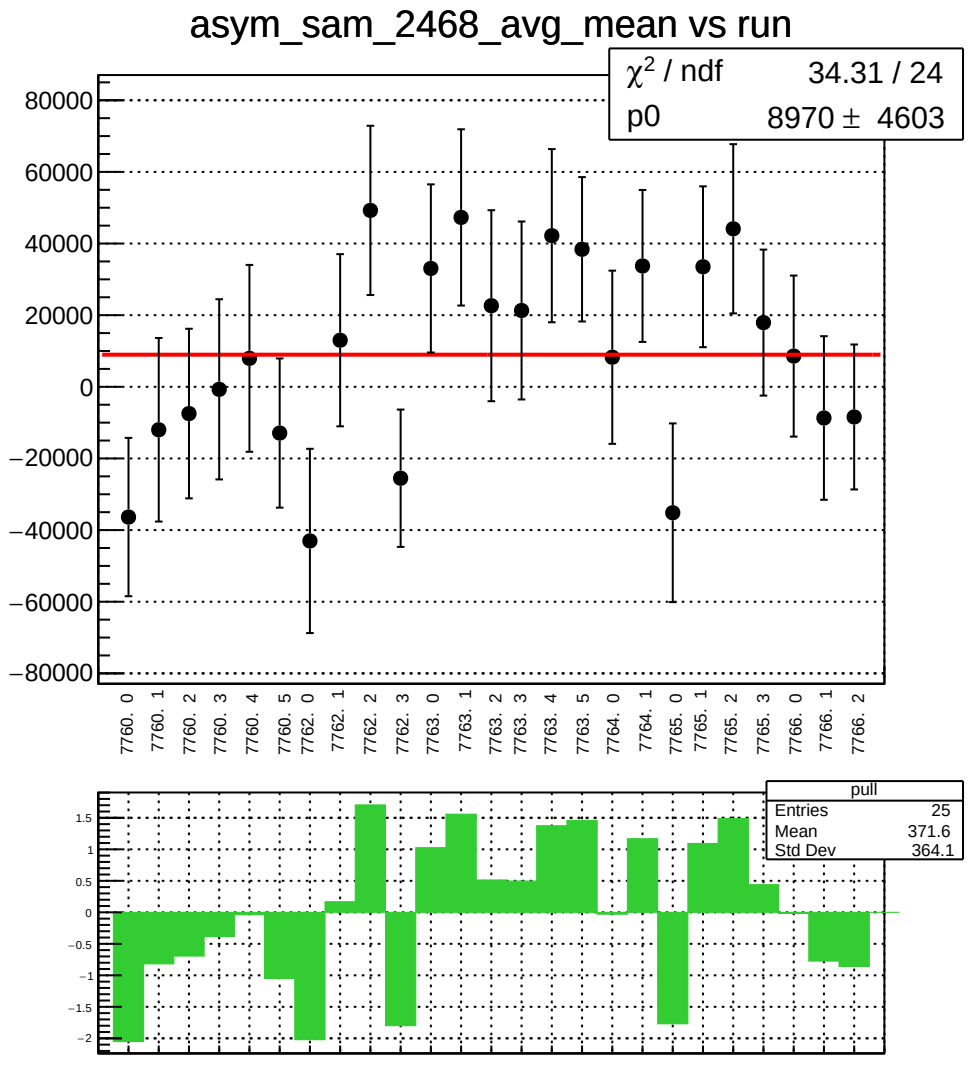

dit_asym_sam_2468_avg_mean vs run
χ² / ndf 33.97 / 24
p0 5.545 ± 392.7
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −121.8
Std Dev 131.2
2
1
0
−1
−2
pull1D
Entries 25
Mean 0.008474
Std Dev 1.166
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

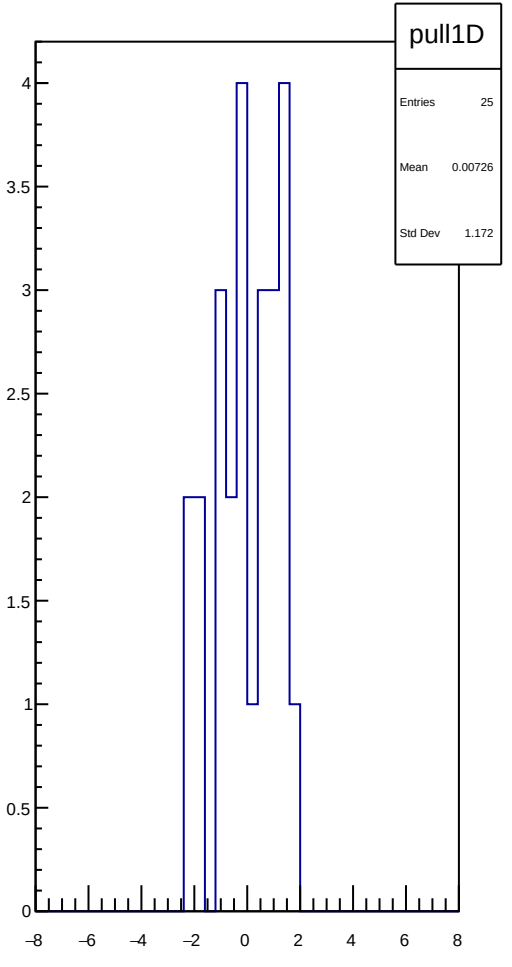

dit_asym_sam_2468_avg_rms vs run
χ² / ndf 8793 / 24
p0 193.1 ± 0.2777
400
350
300
250
200
150
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

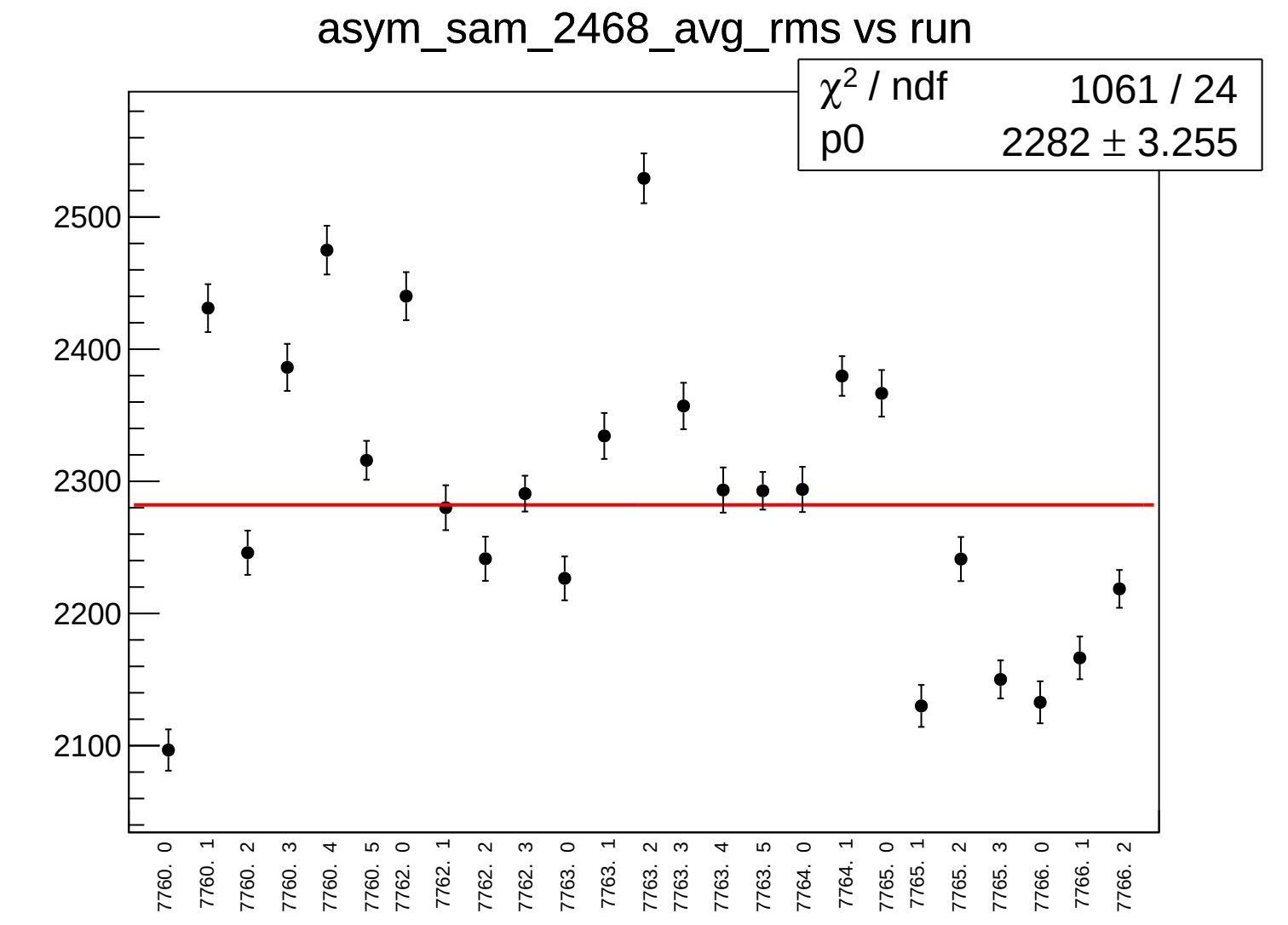

asym_sam_2468_avg_correction_mean vs run
χ² / ndf 34.85 / 24
p0 −9390 ± 4636
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −800
Std Dev 807.4
2
1.5
1
0.5
0
−0.5
−1
−1.5

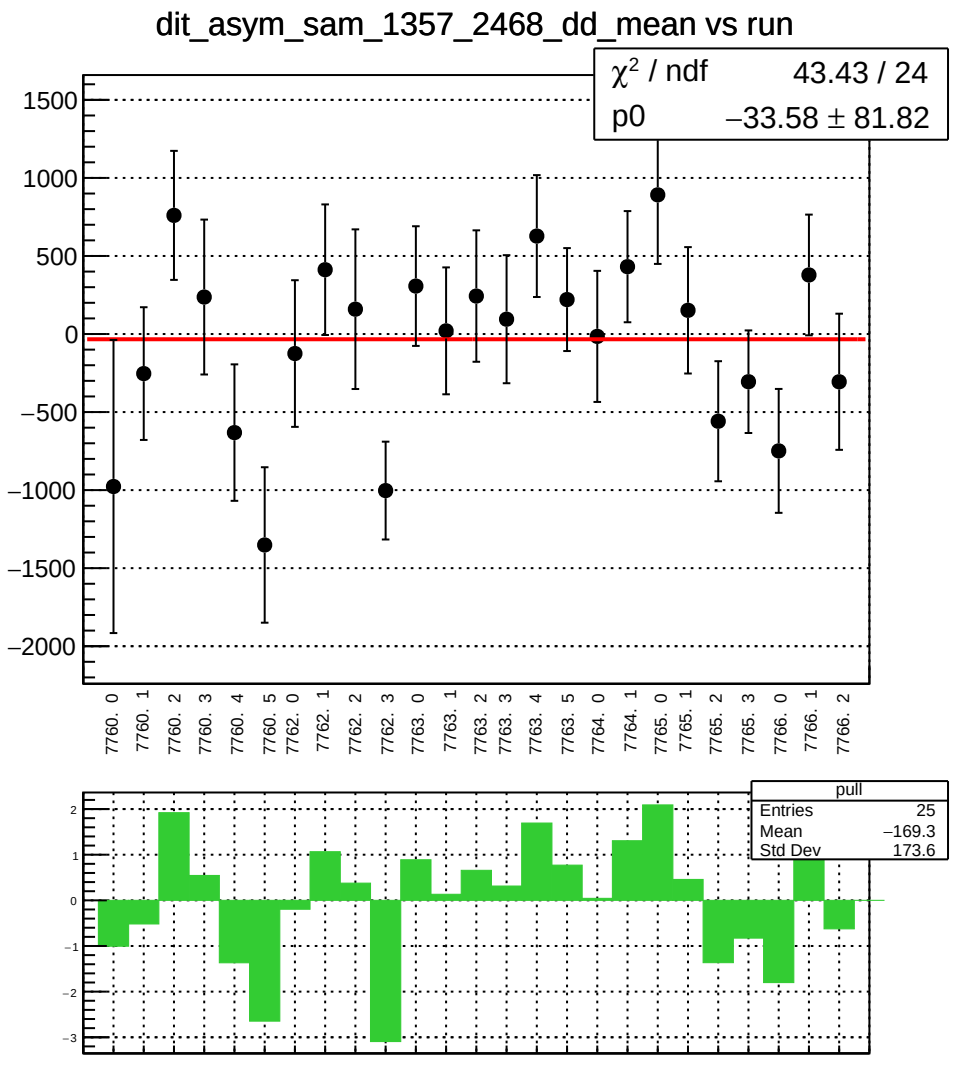

pull1D
Entries 25
Mean 0.003205
Std Dev 1.181
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

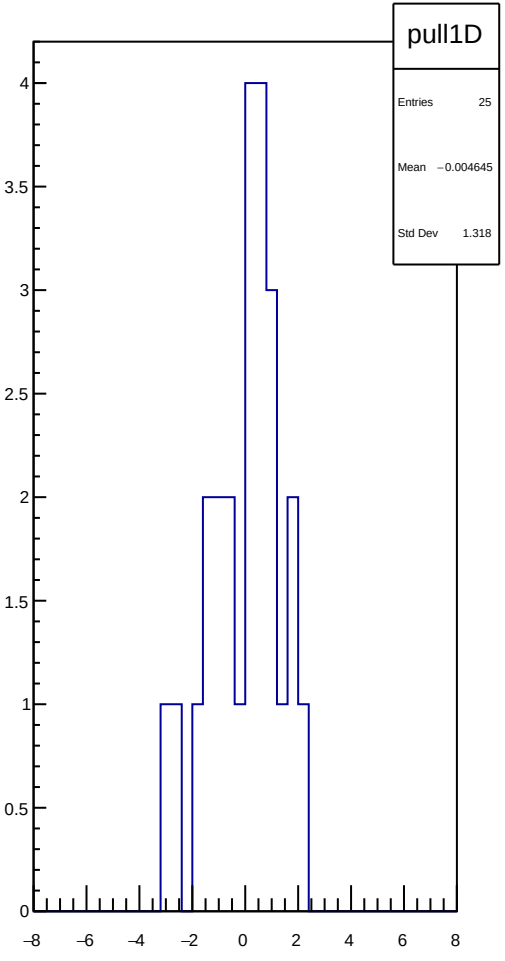

asym_sam_2468_avg_correction_rms vs run
χ² / ndf 1022 / 24
p0 2298 ± 3.278
2500
2400
2300
2200
2100
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

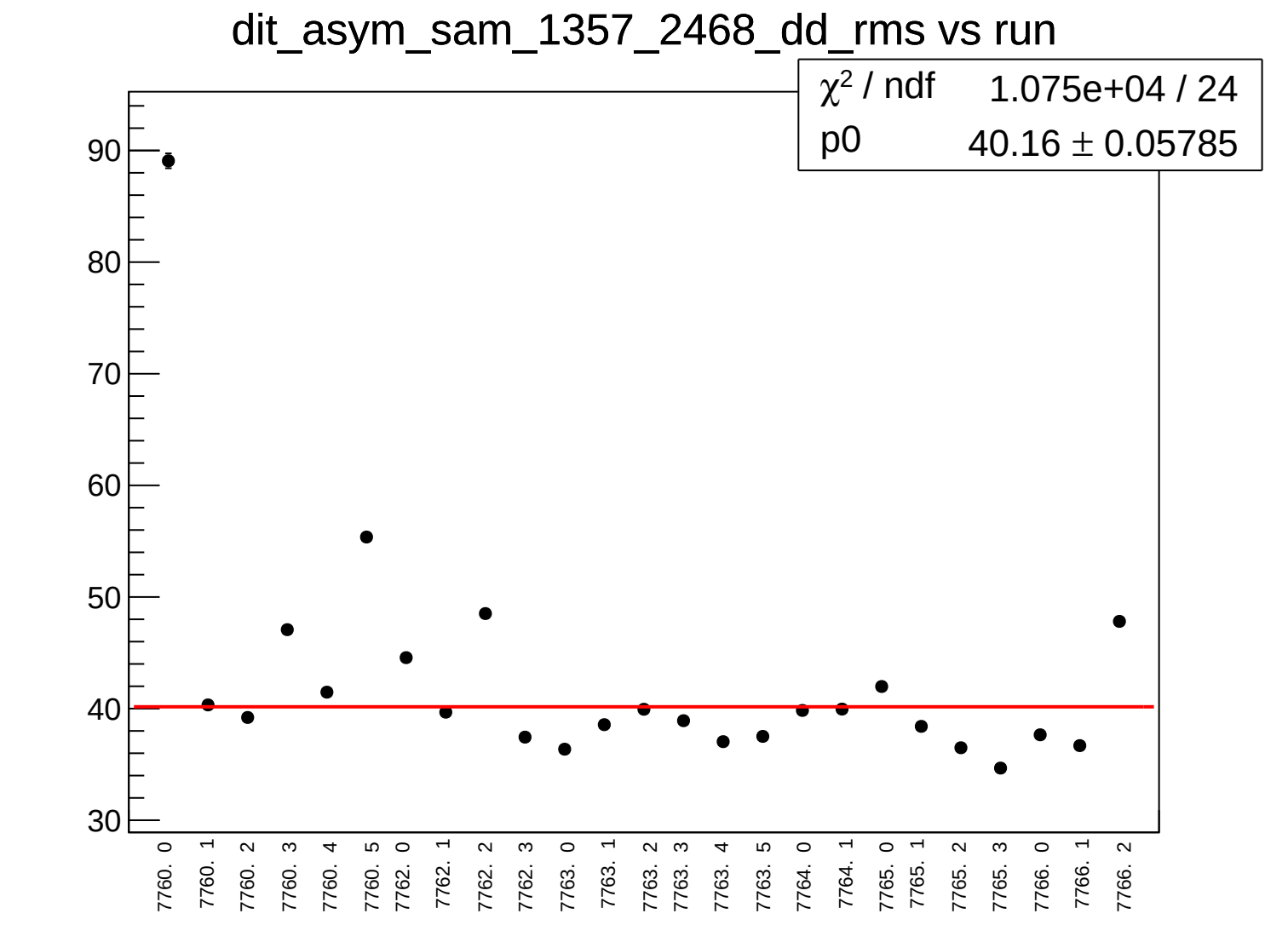

asym_sam_2468_avg_mean vs run
χ² / ndf 34.31 / 24
p0 8970 ± 4603
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 371.6
Std Dev 364.1
1.5
1
0.5
0
−0.5
−1
−1.5
−2

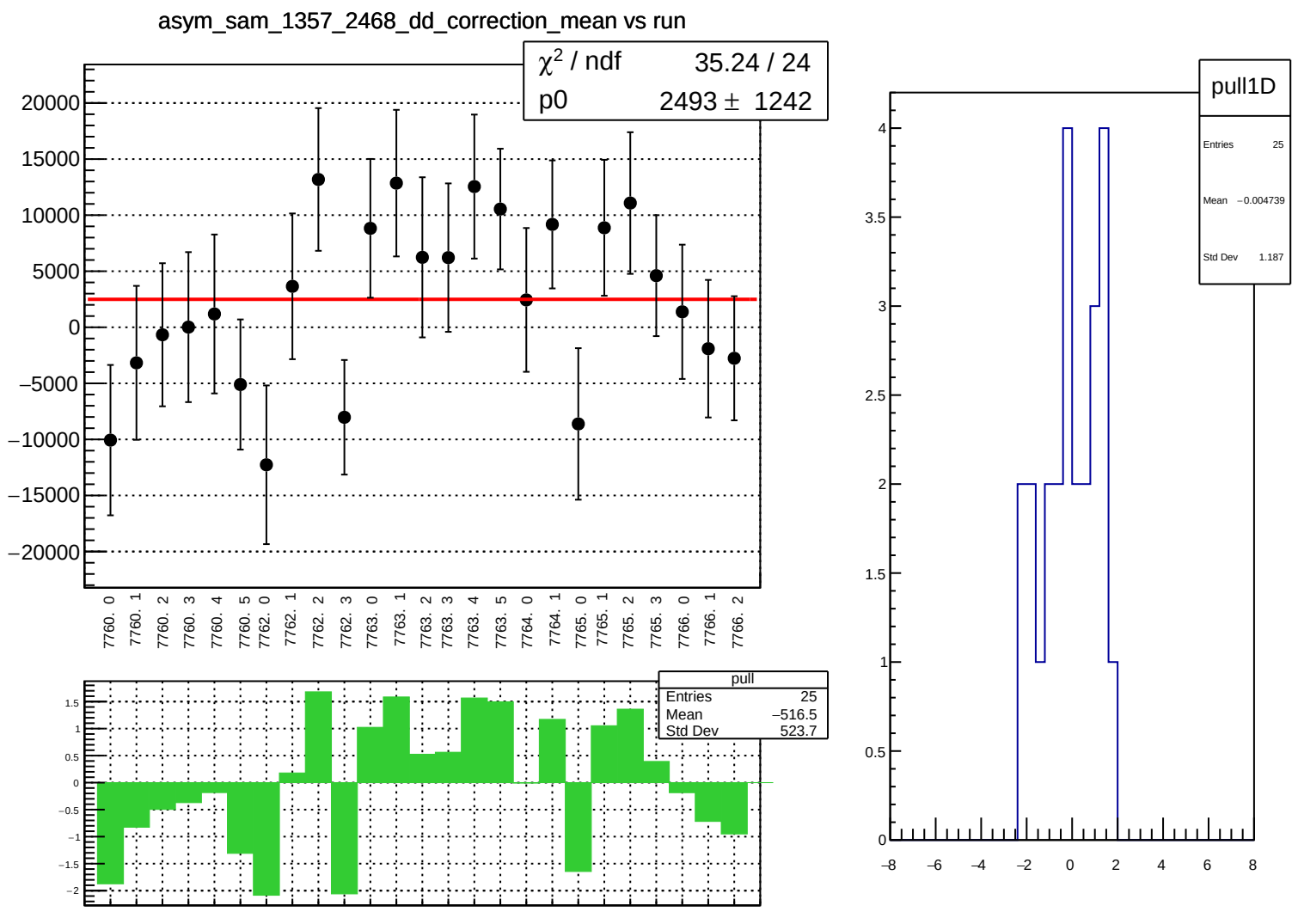

pull1D
Entries 25
Mean 0.00726
Std Dev 1.172
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

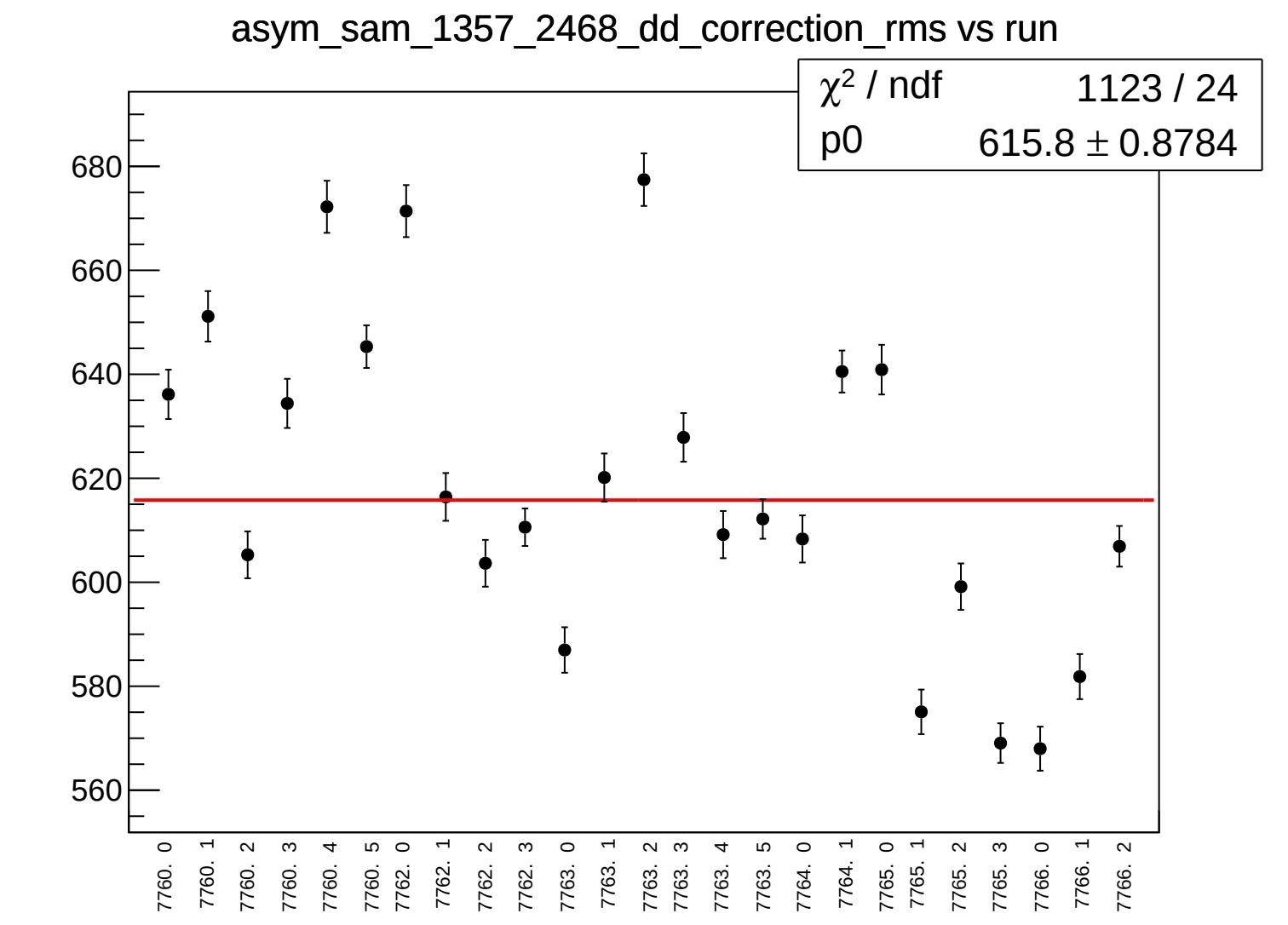

asym_sam_2468_avg_rms vs run
χ² / ndf 1061 / 24
p0 2282 ± 3.255
2500
2400
2300
2200
2100
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

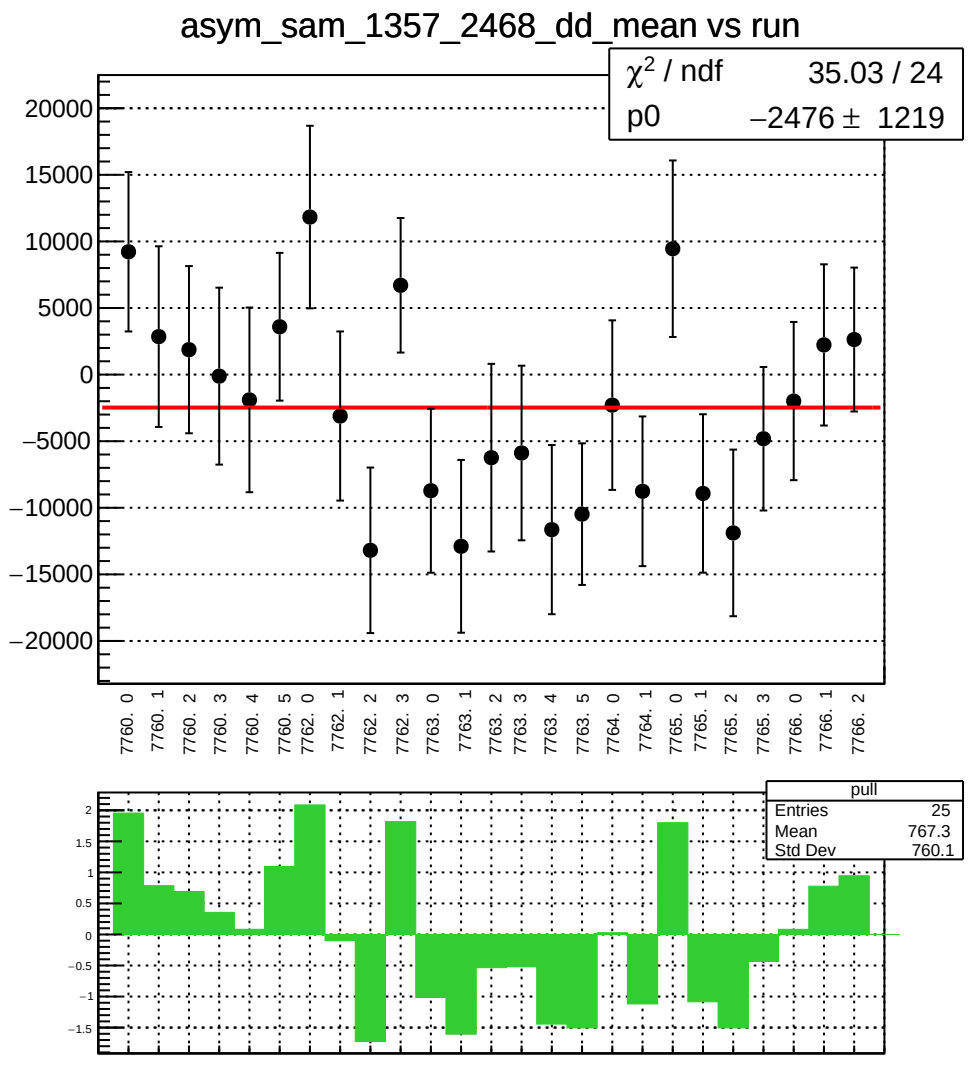

dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 43.43 / 24
p0 −33.58 ± 81.82
1500
1000
500
0
−500
−1000
−1500
−2000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −169.3
Std Dev 173.6
2
1
0
−1
−2
−3

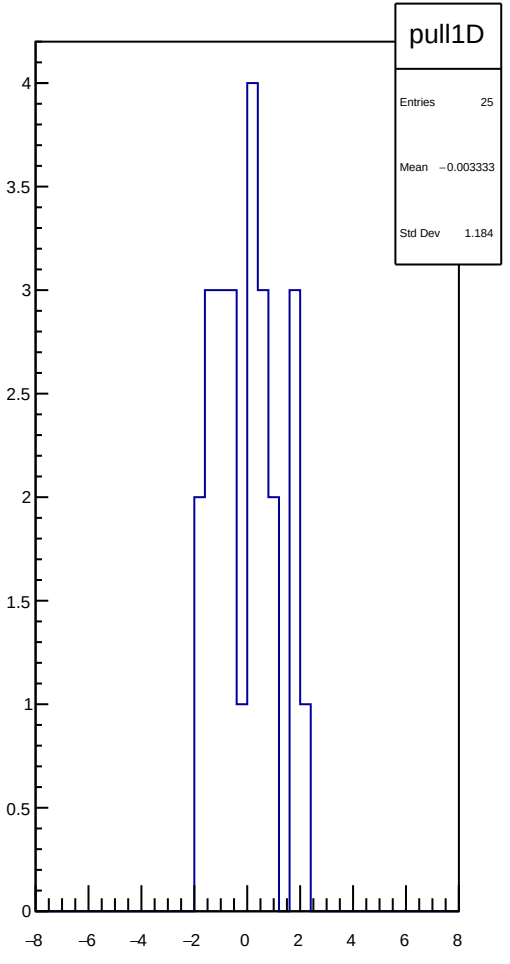

pull1D
Entries 25
Mean −0.004645
Std Dev 1.318
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

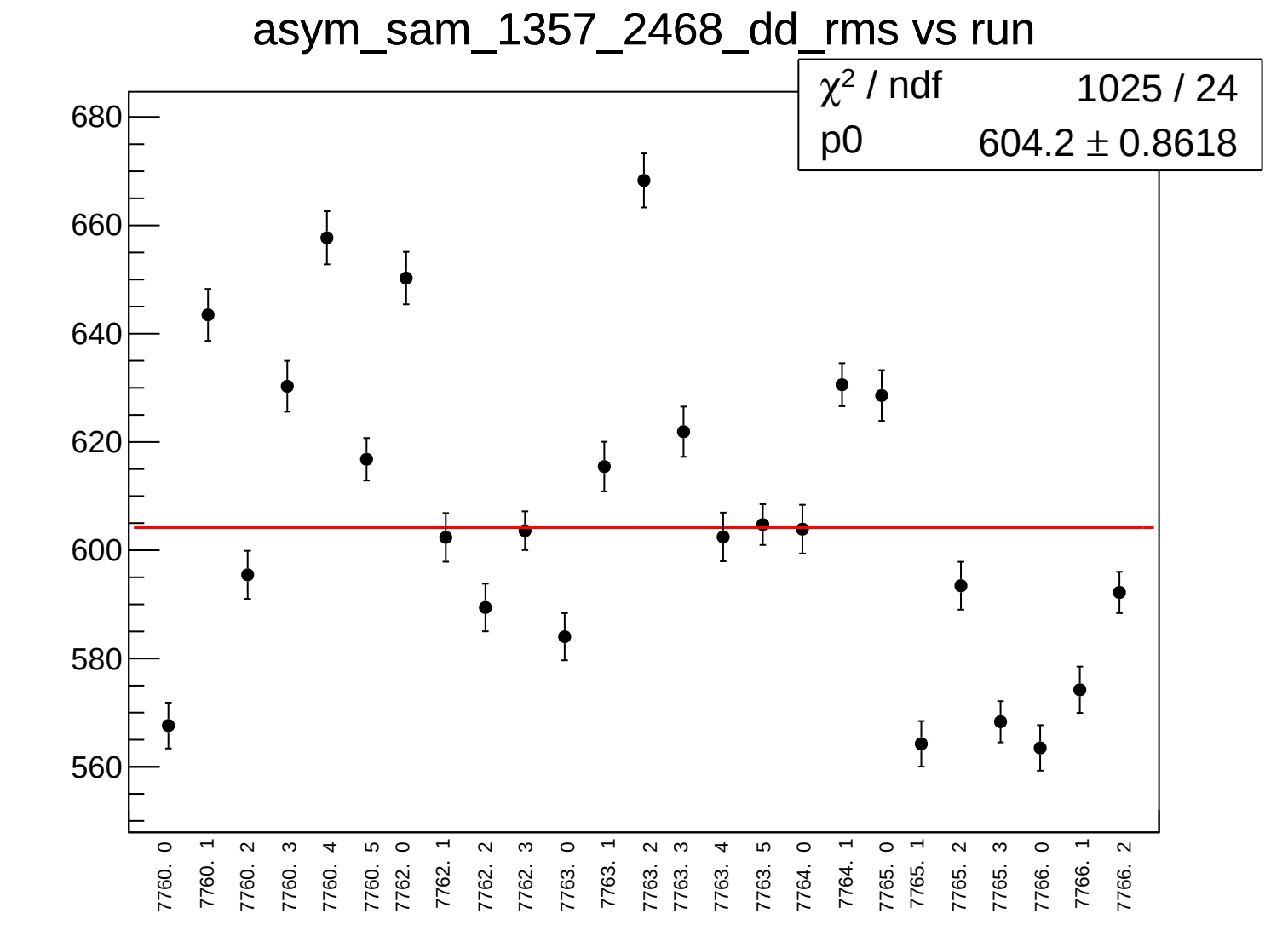

dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.075e+04 / 24
p0 40.16 ± 0.05785
90
80
70
60
50
40
30
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

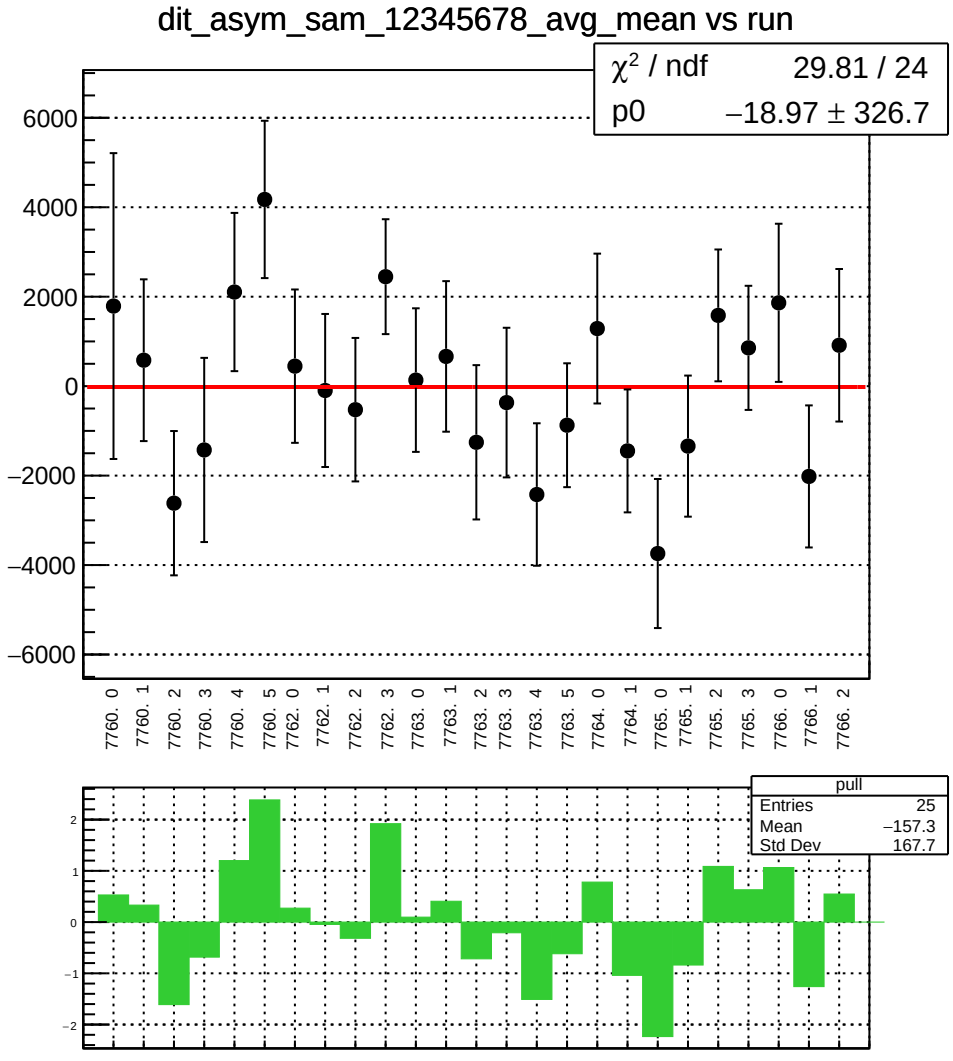

asym_sam_1357_2468_dd_correction_mean vs run
χ² / ndf 35.24 / 24
p0 2493 ± 1242
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −516.5
Std Dev 523.7
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 25
Mean −0.004739
Std Dev 1.187
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

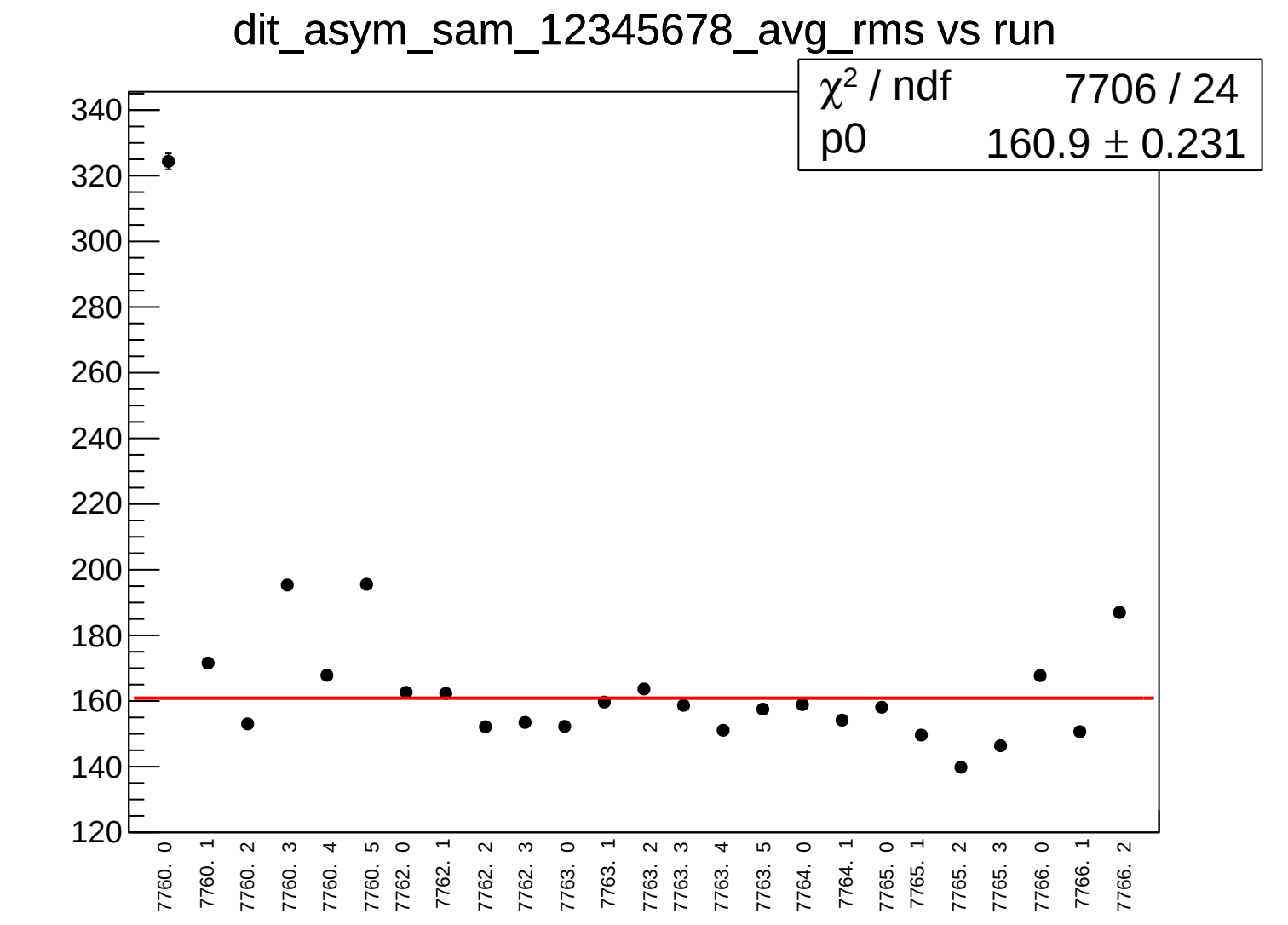

asym_sam_1357_2468_dd_correction_rms vs run
χ² / ndf 1123 / 24
p0 615.8 ± 0.8784
680
660
640
620
600
580
560
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

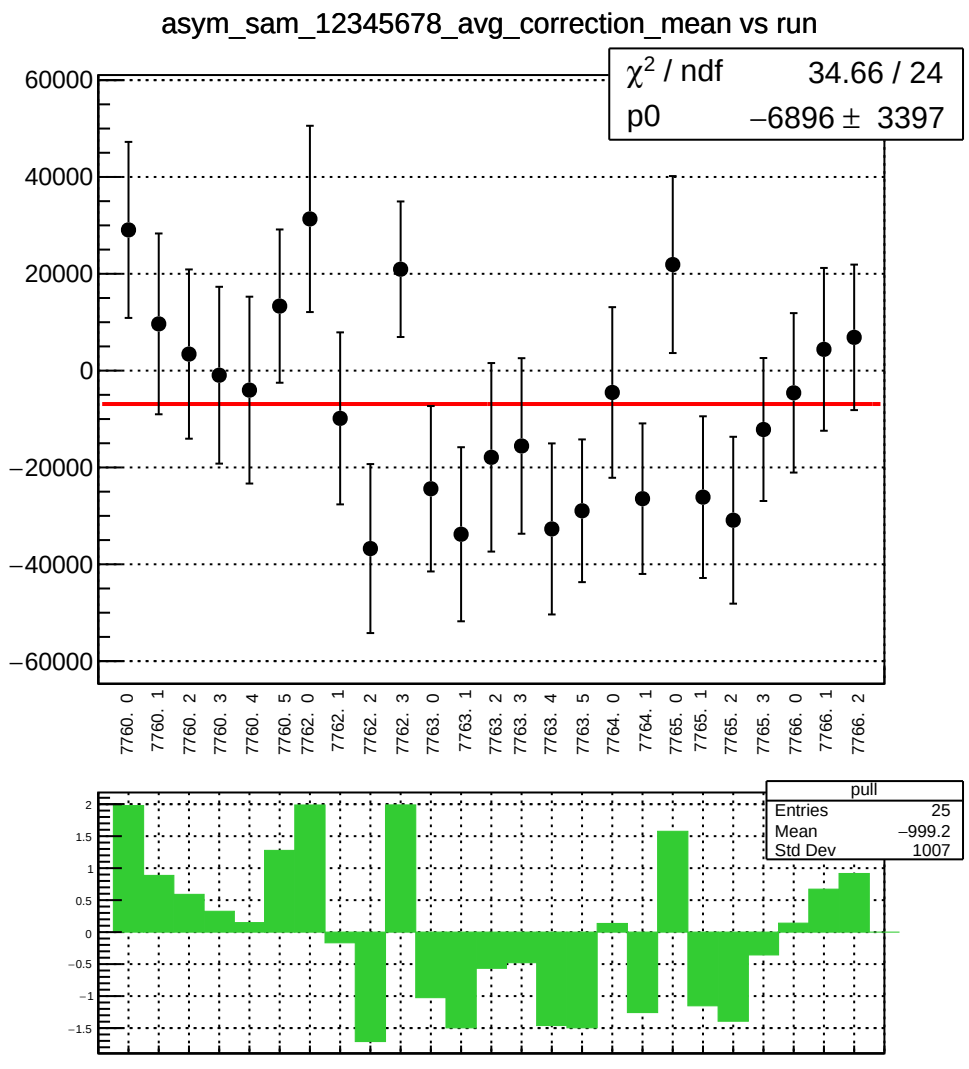

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 35.03 / 24
p0 −2476 ± 1219
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 767.3
Std Dev 760.1
2
1.5
1
0.5
0
−0.5
−1
−1.5

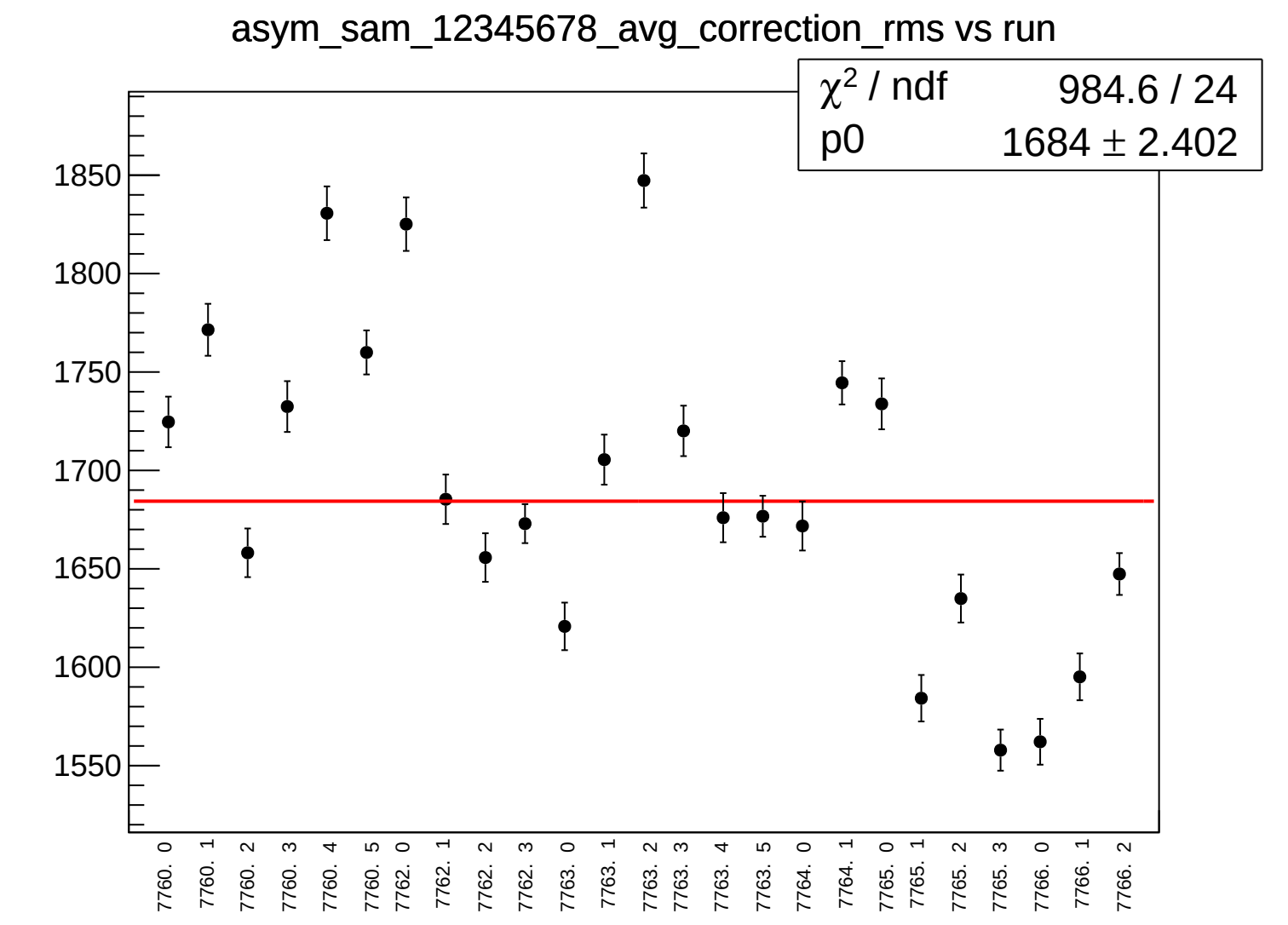

pull1D
Entries 25
Mean −0.003333
Std Dev 1.184
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

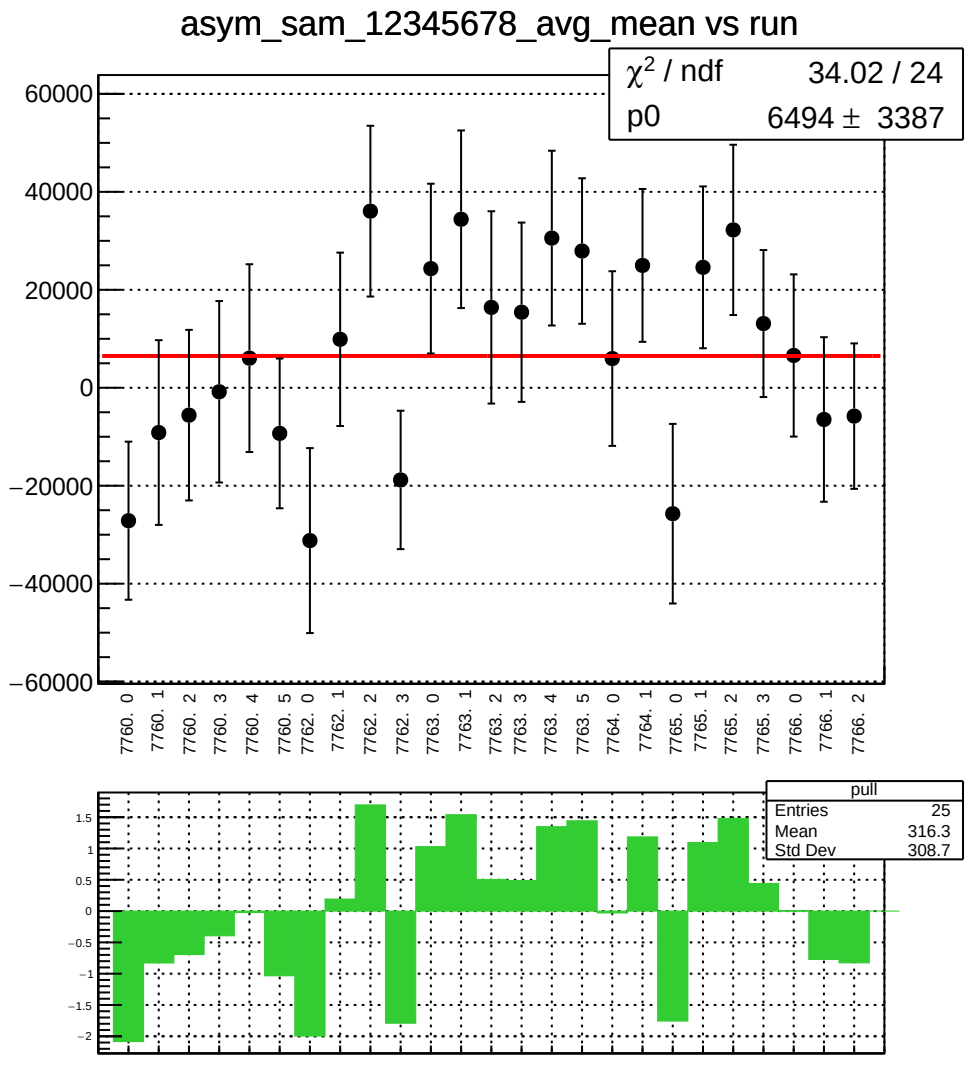

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1025 / 24
p0 604.2 ± 0.8618
680
660
640
620
600
580
560
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

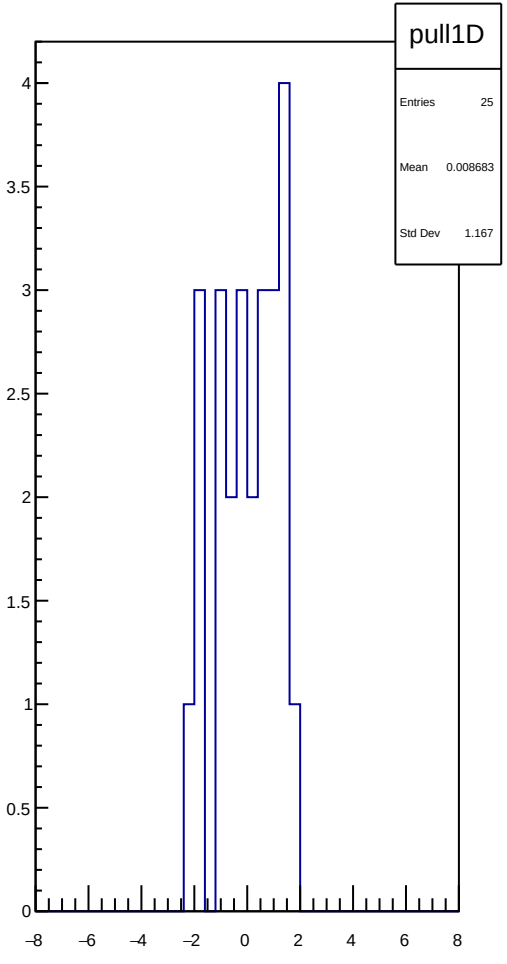

dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 29.81 / 24
p0 −18.97 ± 326.7
6000
4000
2000
0
−2000
−4000
−6000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −157.3
Std Dev 167.7
2
1
0
−1
−2
pull1D
Entries 25
Mean 0.006887
Std Dev 1.092
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

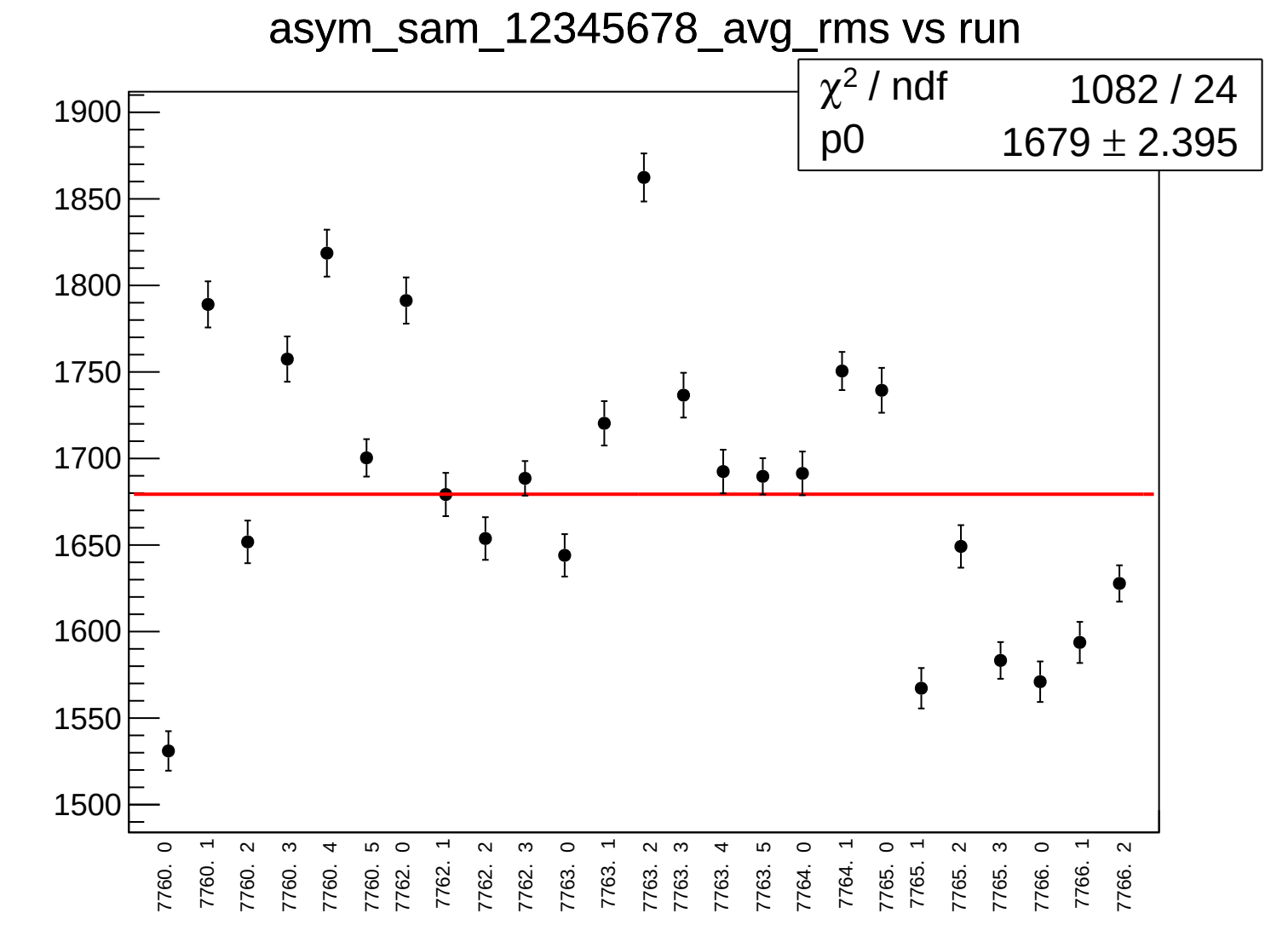

dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 7706 / 24
p0 160.9 ± 0.231
340
320
300
280
260
240
220
200
180
160
140
120
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

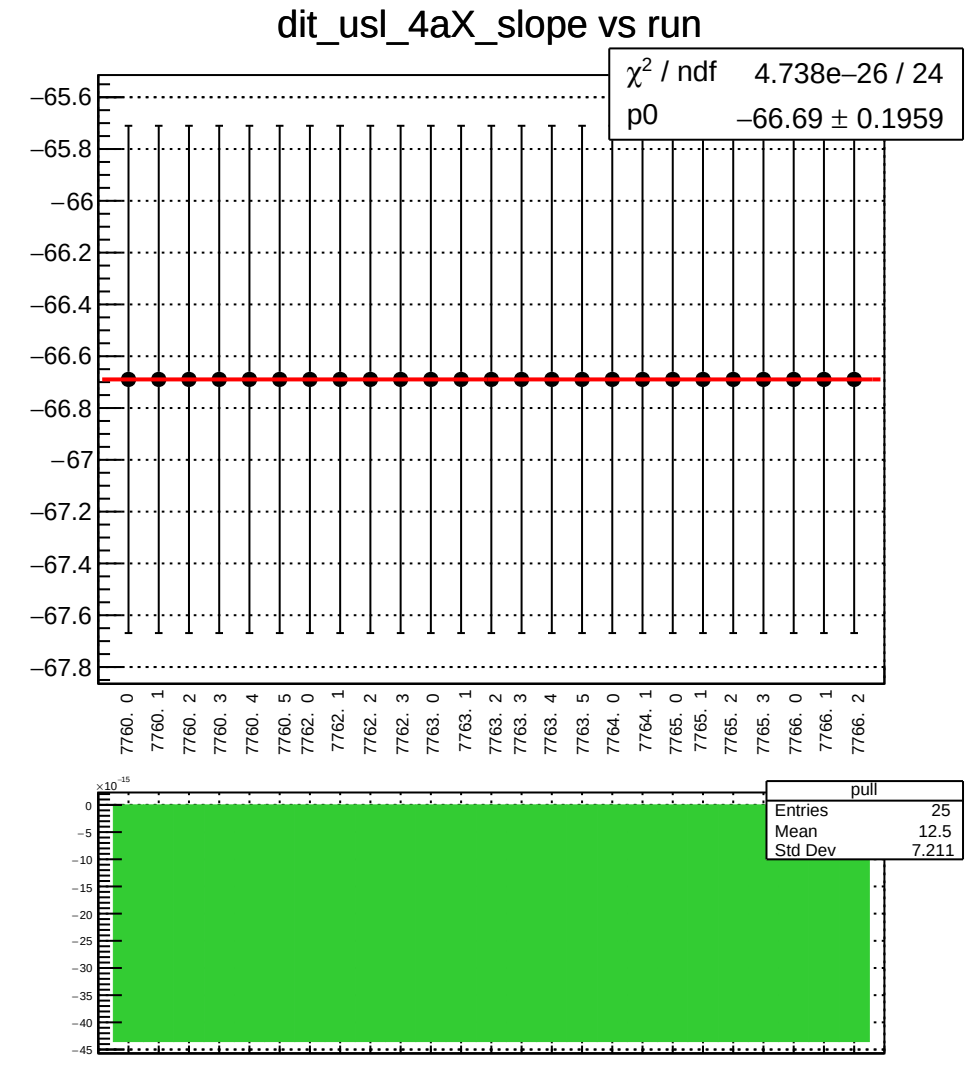

asym_sam_12345678_avg_correction_mean vs run
χ² / ndf 34.66 / 24
p0 −6896 ± 3397
60000
40000
20000
0
−20000
−40000
−60000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −999.2
Std Dev 1007
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 25
Mean 0.002607
Std Dev 1.177
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

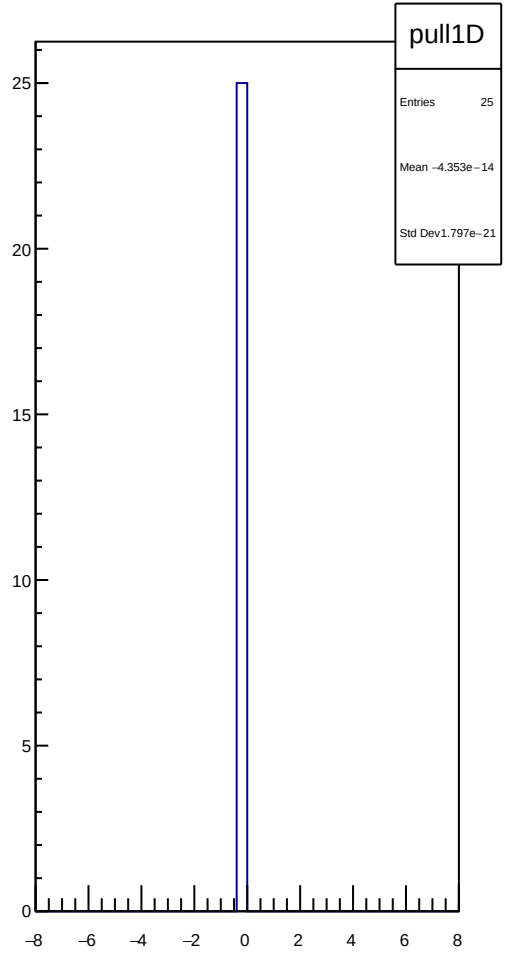

asym_sam_12345678_avg_correction_rms vs run
χ² / ndf 984.6 / 24
p0 1684 ± 2.402
1850
1800
1750
1700
1650
1600
1550
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

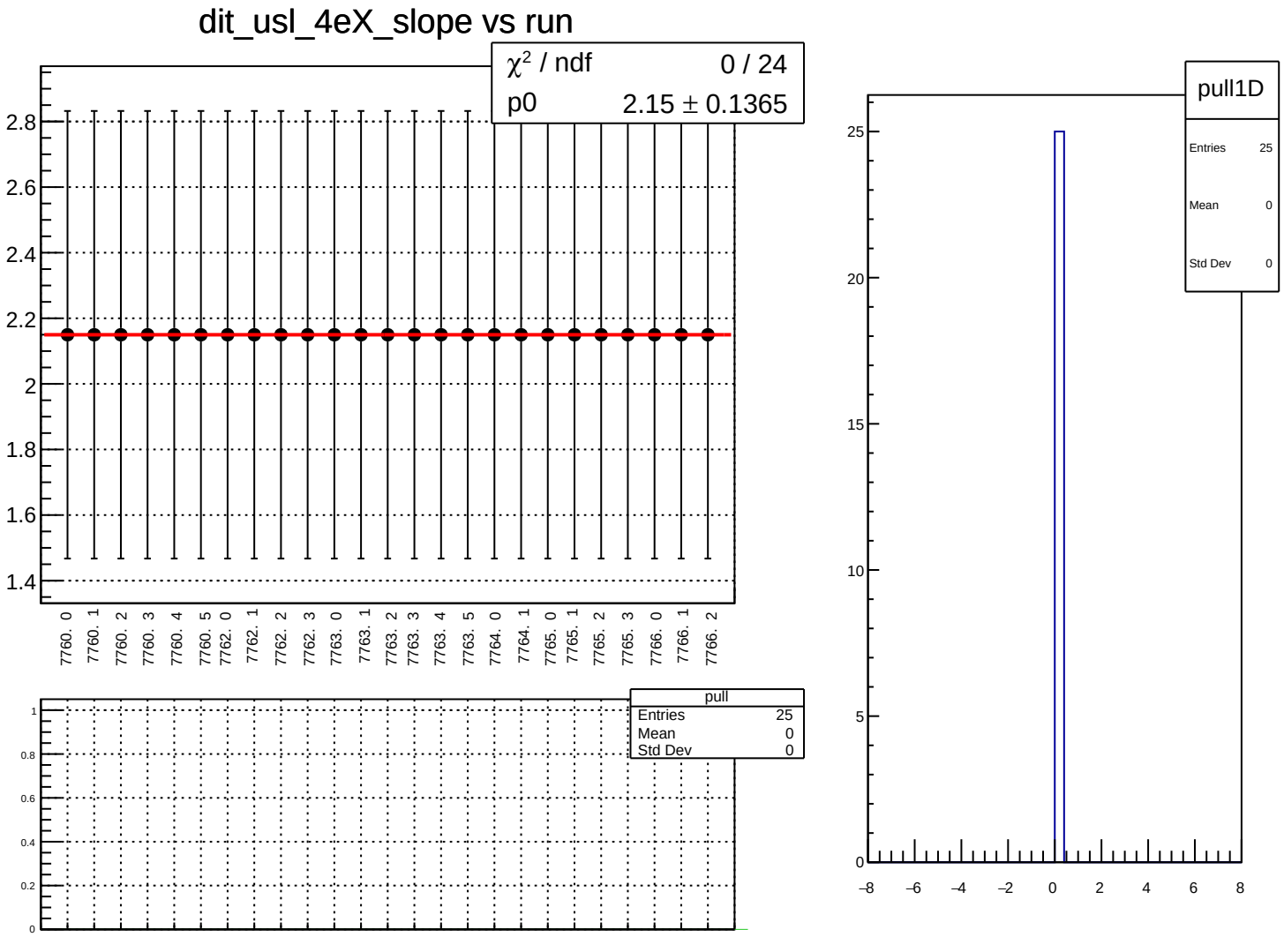

asym_sam_12345678_avg_mean vs run
χ² / ndf 34.02 / 24
p0 6494 ± 3387
60000
40000
20000
0
−20000
−40000
−60000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 316.3
Std Dev 308.7
1.5
1
0.5
0
−0.5
−1
−1.5
−2

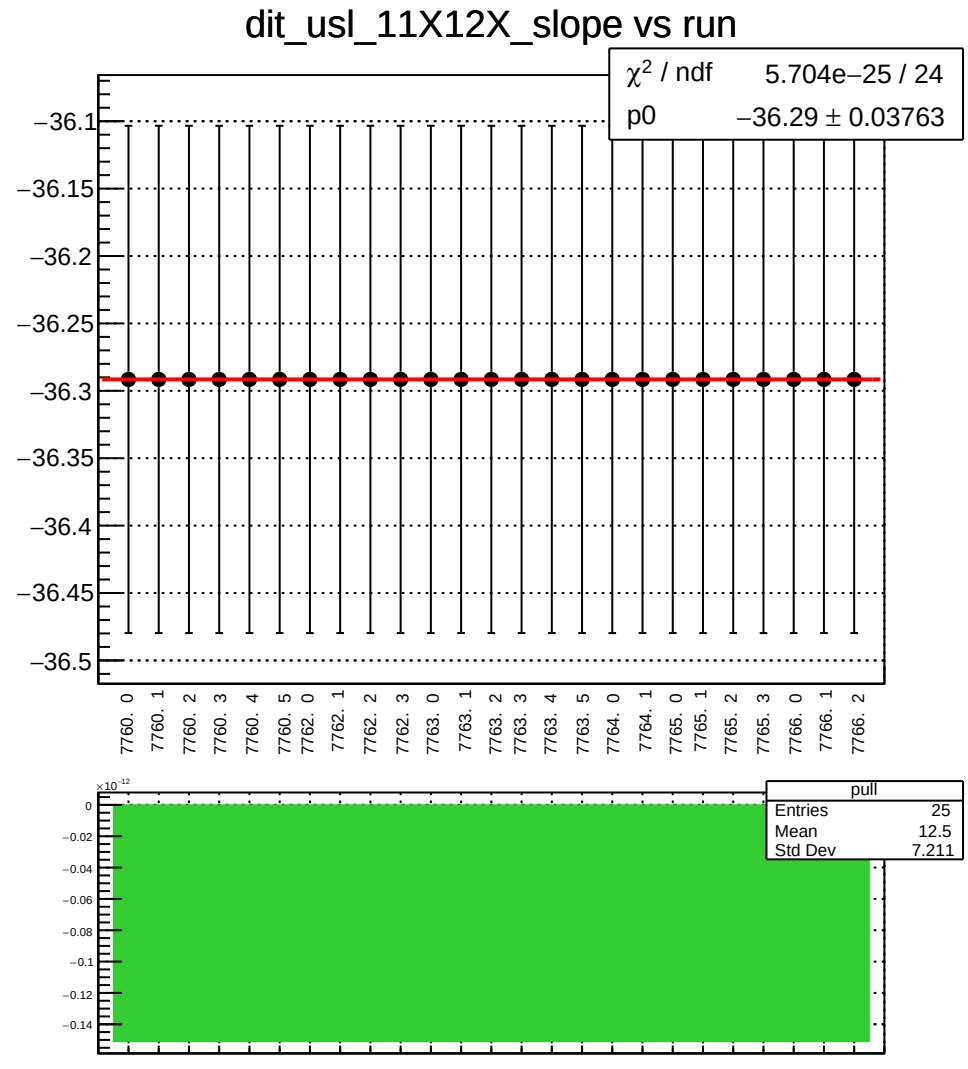

pull1D
Entries 25
Mean 0.008683
Std Dev 1.167
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

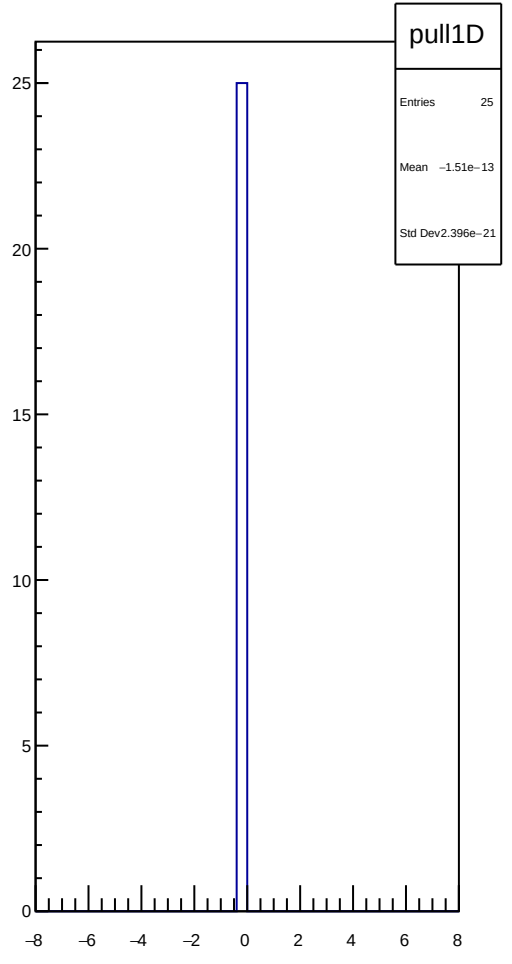

asym_sam_12345678_avg_rms vs run
χ² / ndf 1082 / 24
p0 1679 ± 2.395
1900
1850
1800
1750
1700
1650
1600
1550
1500
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

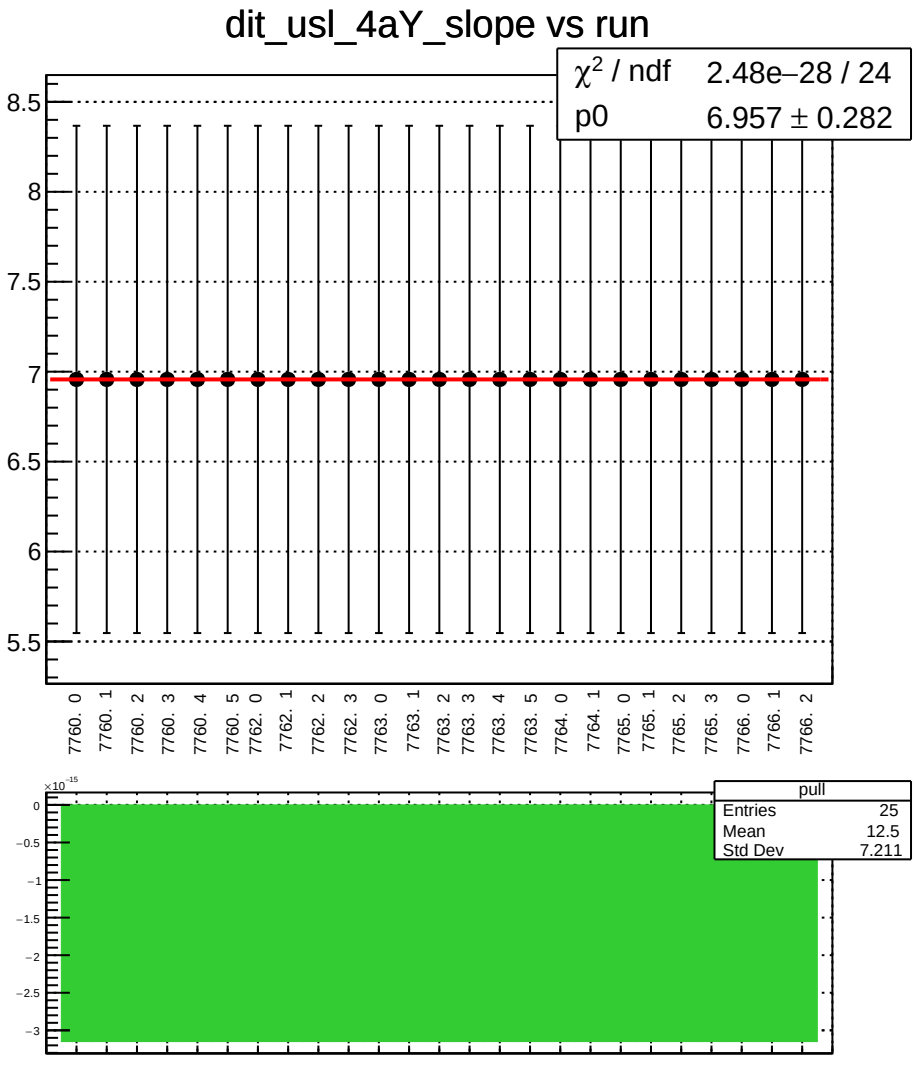

dit_usl_4aX_slope vs run
χ² / ndf 4.738e−26 / 24
p0 −66.69 ± 0.1959
−65.6
−65.8
−66
−66.2
−66.4
−66.6
−66.8
−67
−67.2
−67.4
−67.6
−67.8
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
×10⁻¹⁵
0
−5
−10
−15
−20
−25
−30
−35
−40
−45
pull
Entries 25
Mean 12.5
Std Dev 7.211

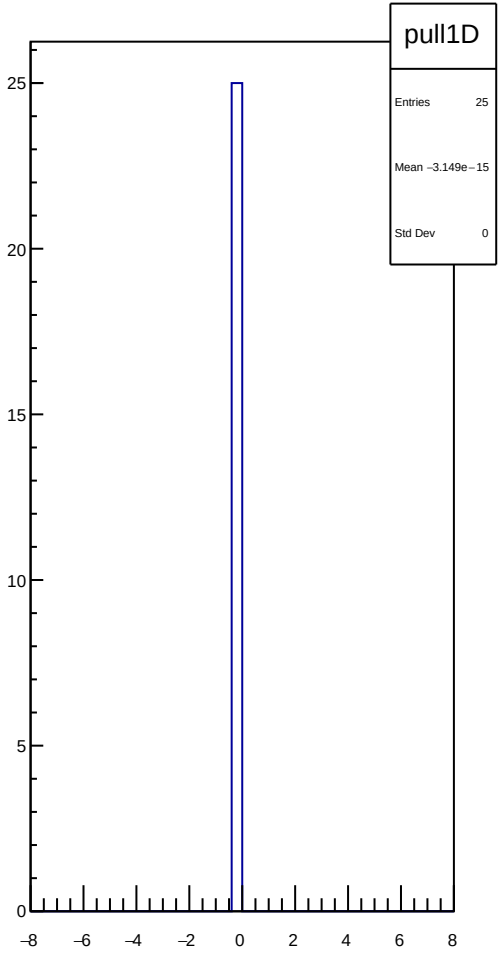

pull1D
Entries 25
Mean −4.353e−14
Std Dev1.797e−21
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

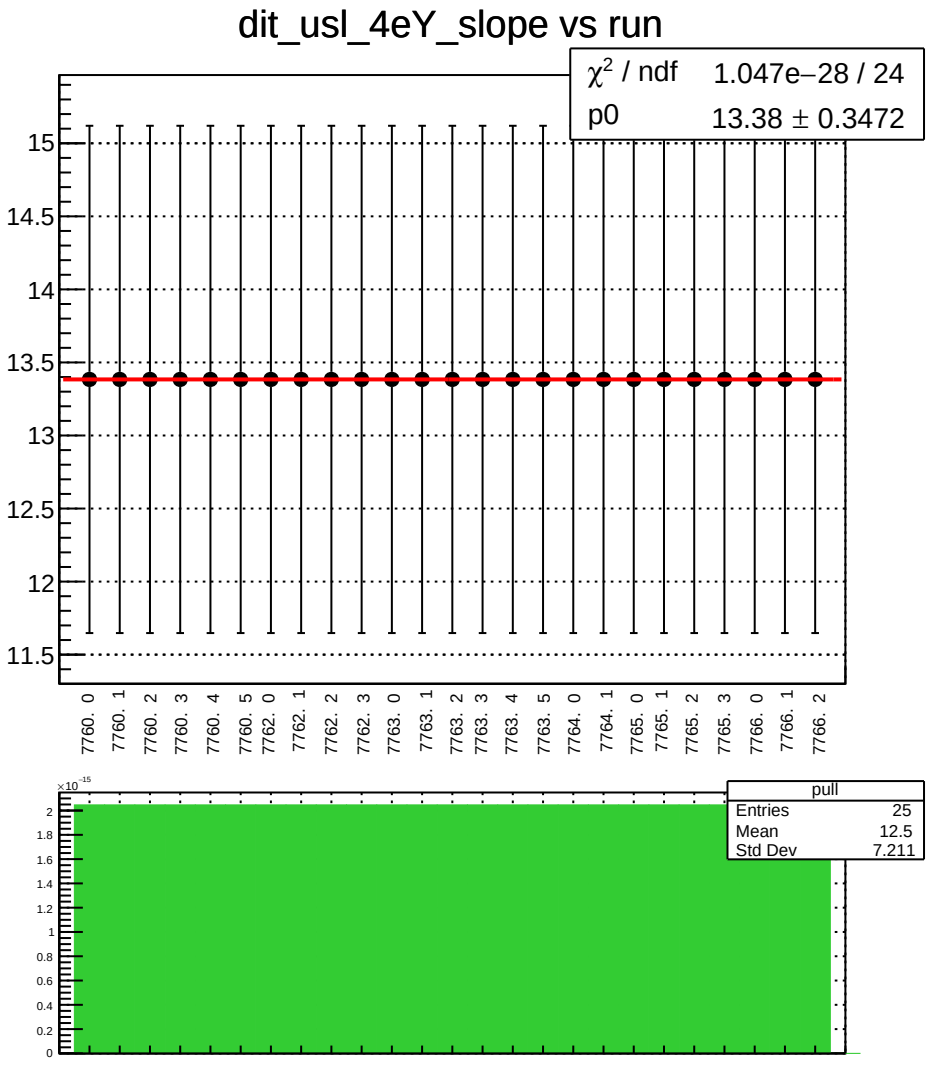

dit_usl_4eX_slope vs run
χ² / ndf 0 / 24
p0 2.15 ± 0.1365
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 25
Mean 0
Std Dev 0
25
20
15
10
5
0
–8
–6
–4
–2
0
2
4
6
8

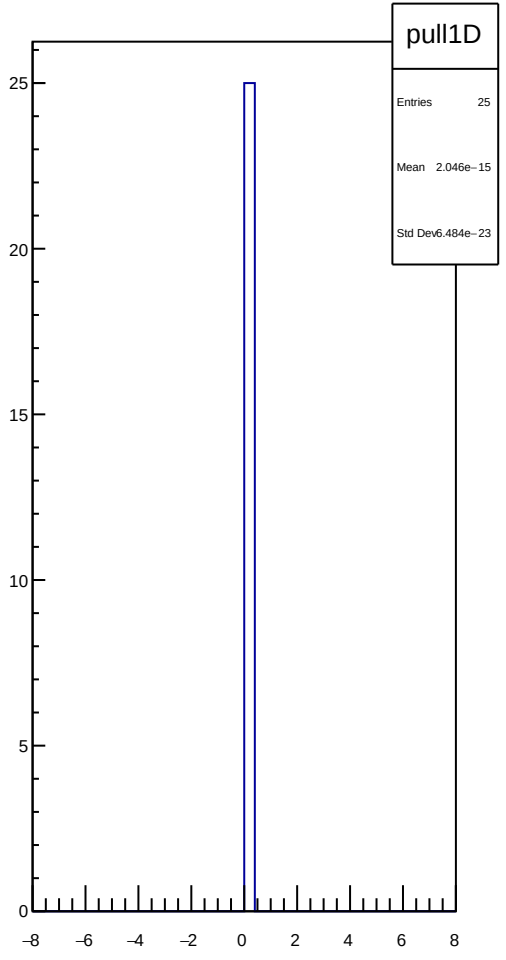

dit_usl_11X12X_slope vs run
χ² / ndf 5.704e−25 / 24
p0 −36.29 ± 0.03763
−36.1
−36.15
−36.2
−36.25
−36.3
−36.35
−36.4
−36.45
−36.5
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
×10⁻¹²
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
−0.14
pull
Entries 25
Mean 12.5
Std Dev 7.211

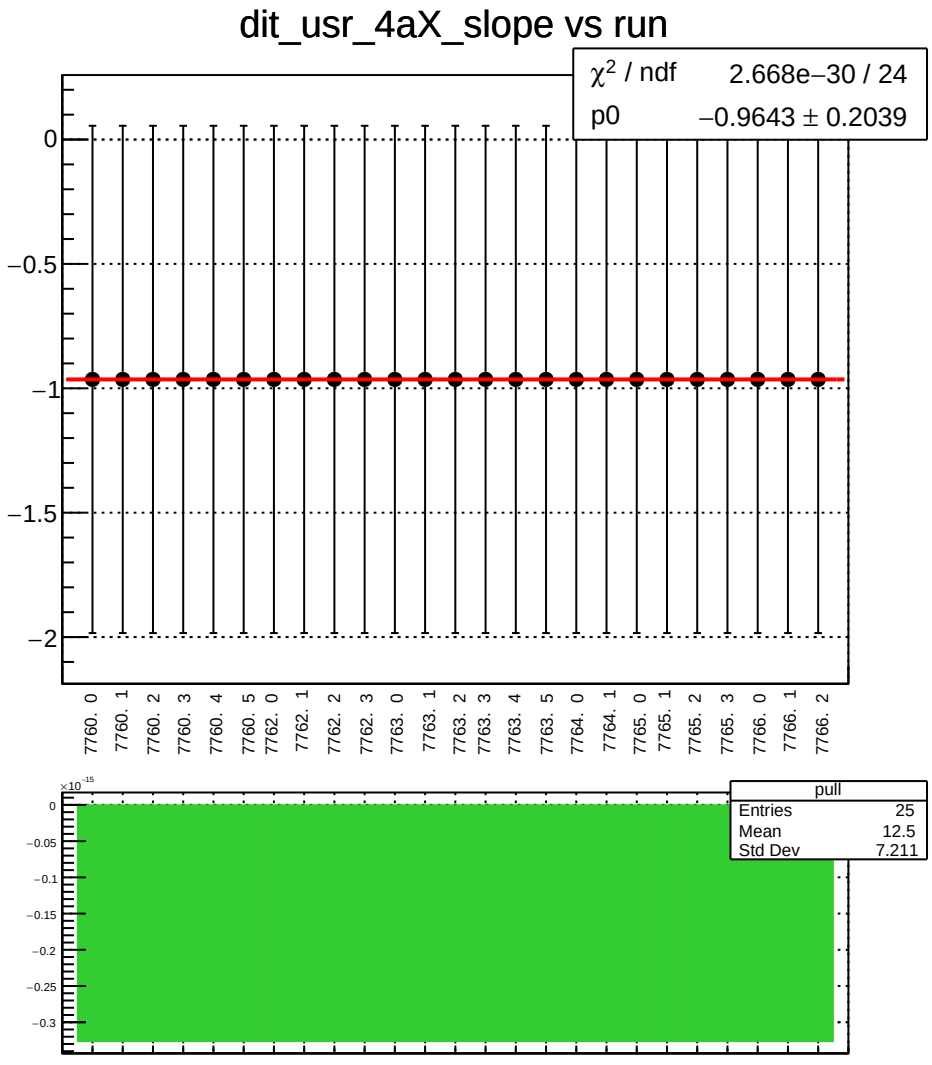

pull1D
Entries 25
Mean −1.51e−13
Std Dev2.396e−21
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

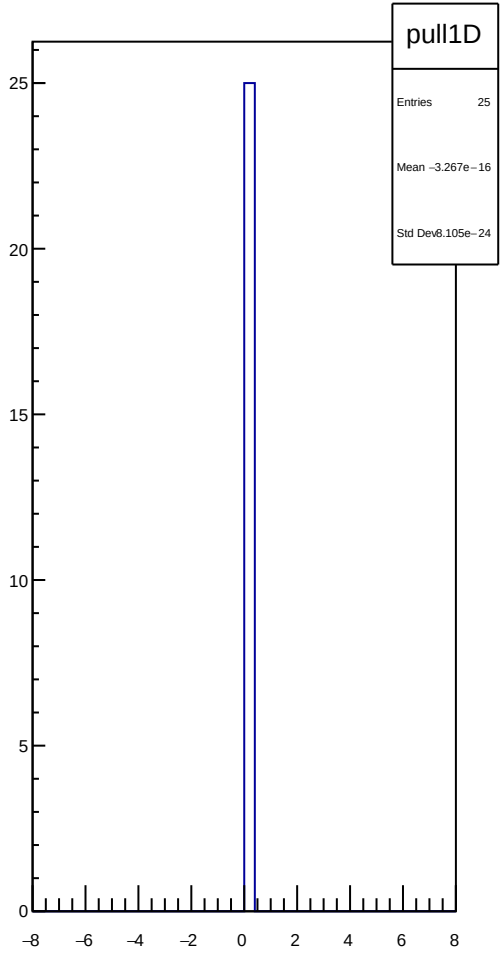

dit_usl_4aY_slope vs run
χ² / ndf 2.48e−28 / 24
p0 6.957 ± 0.282
8.5
8
7.5
7
6.5
6
5.5
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
×10⁻¹⁵
0
−0.5
−1
−1.5
−2
−2.5
−3
pull
Entries 25
Mean 12.5
Std Dev 7.211

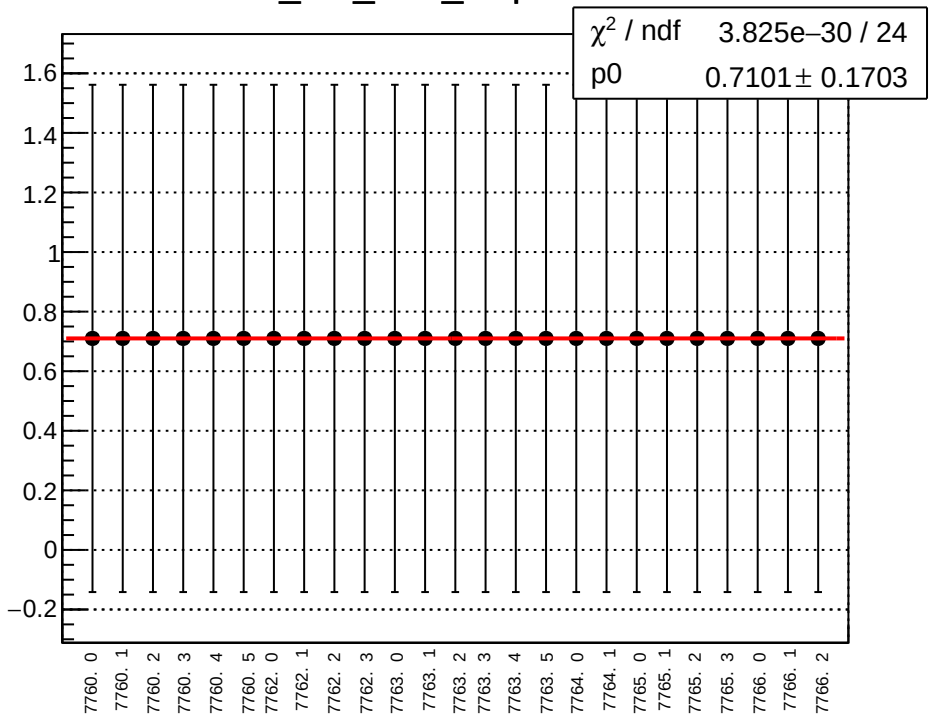

pull1D
Entries 25
Mean −3.149e−15
Std Dev 0
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

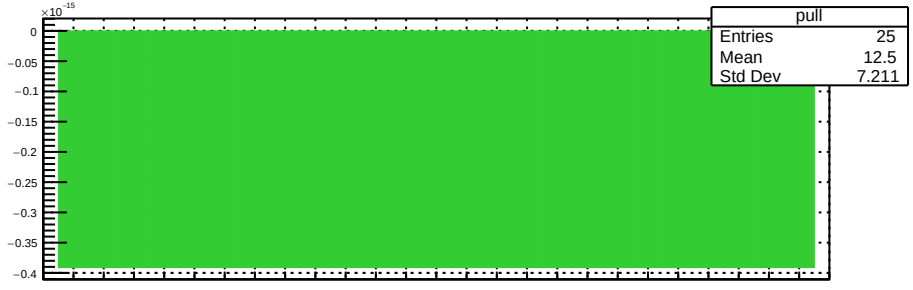

dit_usl_4eY_slope vs run
χ² / ndf 1.047e−28 / 24
p0 13.38 ± 0.3472
15
14.5
14
13.5
13
12.5
12
11.5
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
×10⁻¹⁵
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
pull
Entries 25
Mean 12.5
Std Dev 7.211

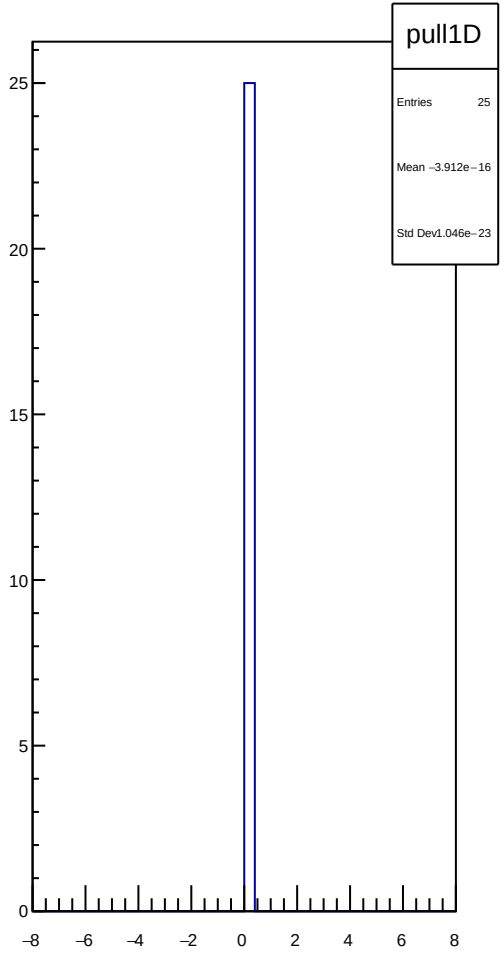

pull1D
Entries 25
Mean 2.046e−15
Std Dev 6.484e−23
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

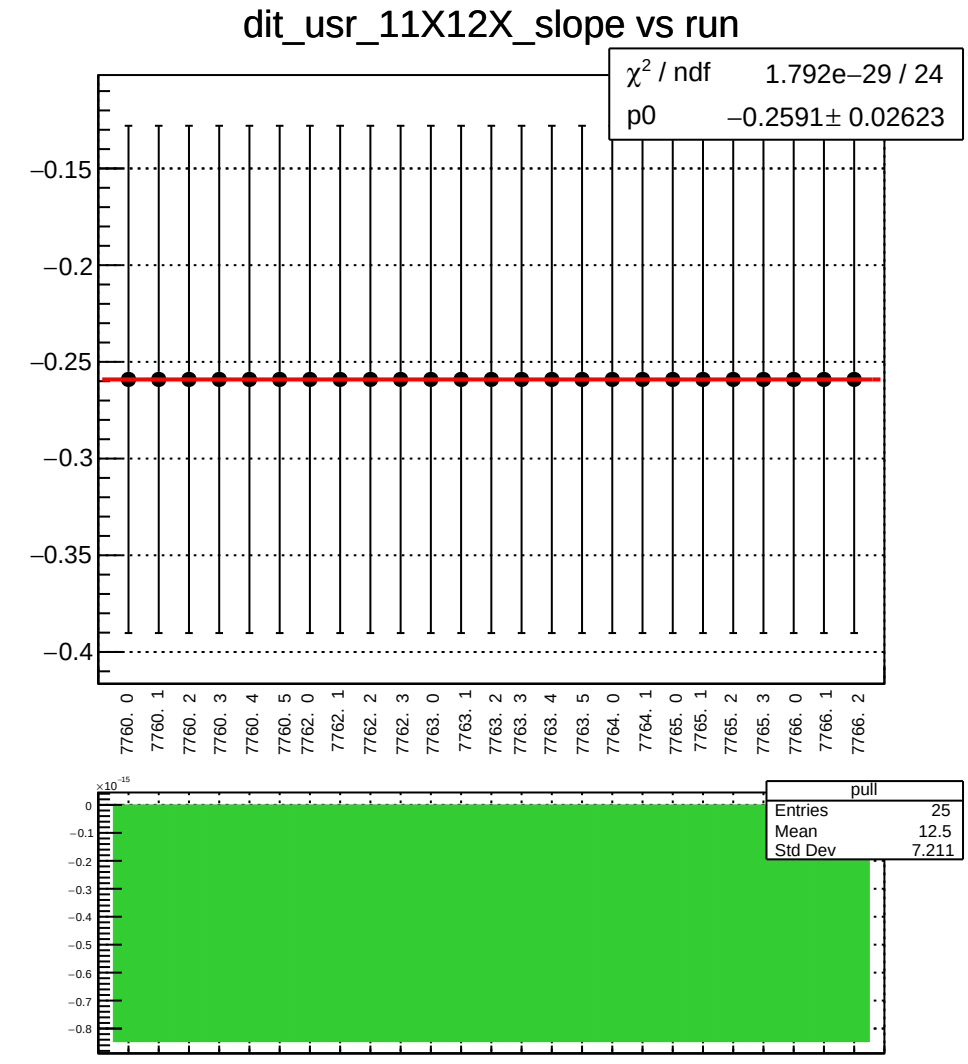

dit_usr_4aX_slope vs run
χ² / ndf 2.668e−30 / 24
p0 −0.9643 ± 0.2039
0
−0.5
−1
−1.5
−2
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
×10⁻¹⁵
0
−0.05
−0.1
−0.15
−0.2
−0.25
−0.3
pull
Entries 25
Mean 12.5
Std Dev 7.211

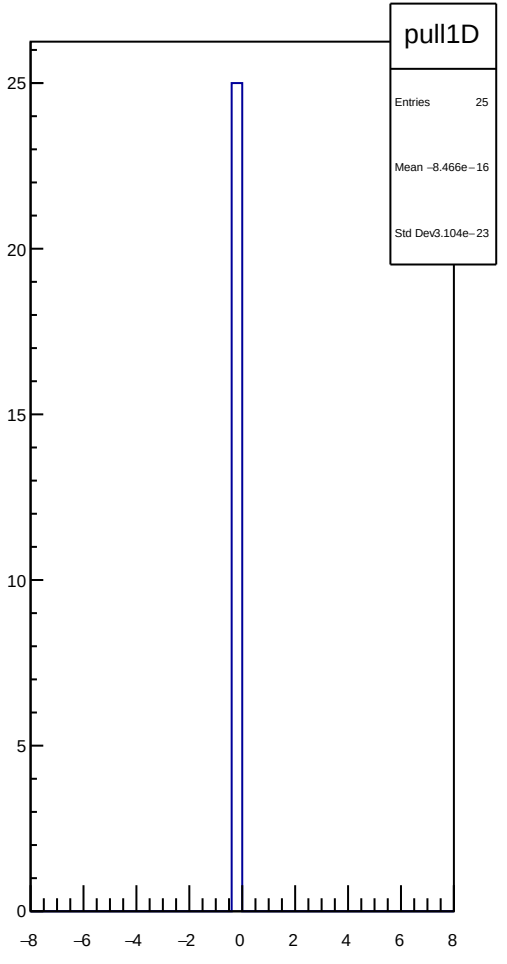

pull1D
Entries 25
Mean −3.267e−16
Std Dev 8.105e−24
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

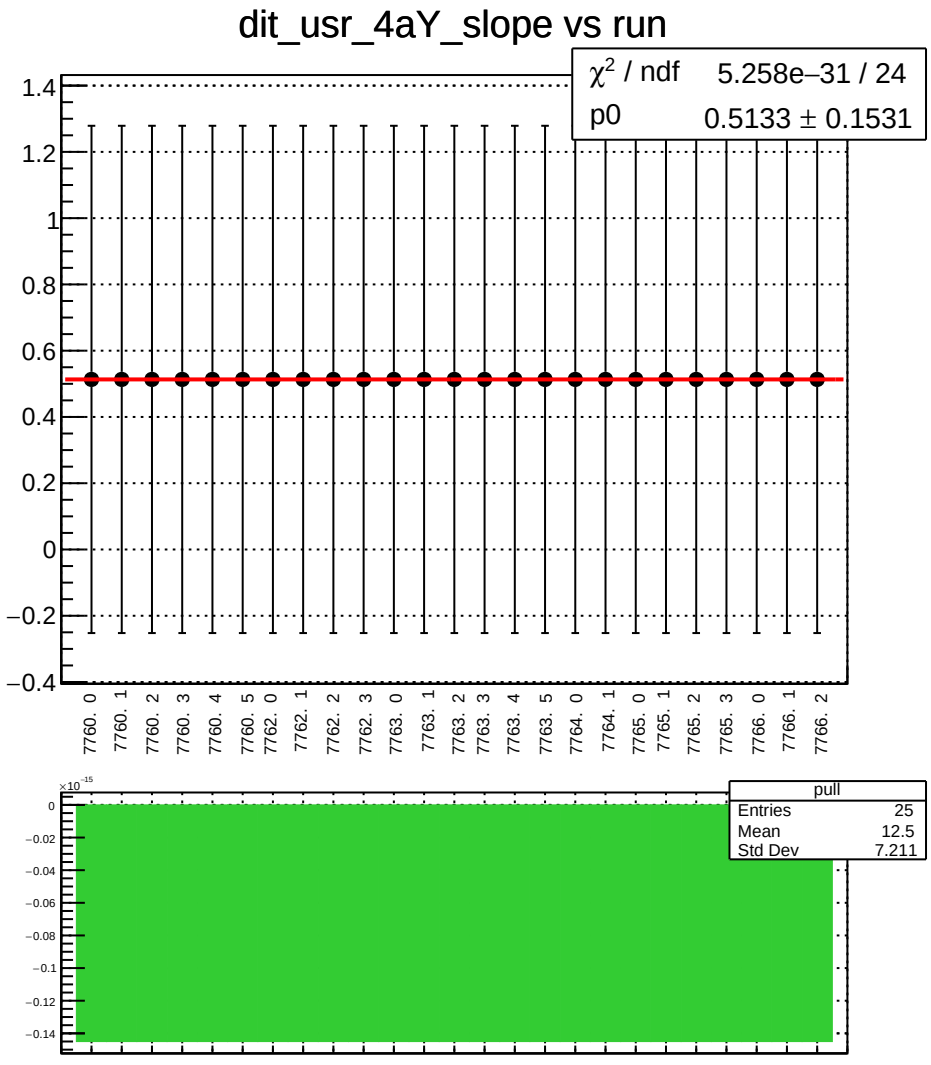

dit_usr_4eX_slope vs run
χ² / ndf 3.825e−30 / 24
p0 0.7101 ± 0.1703
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

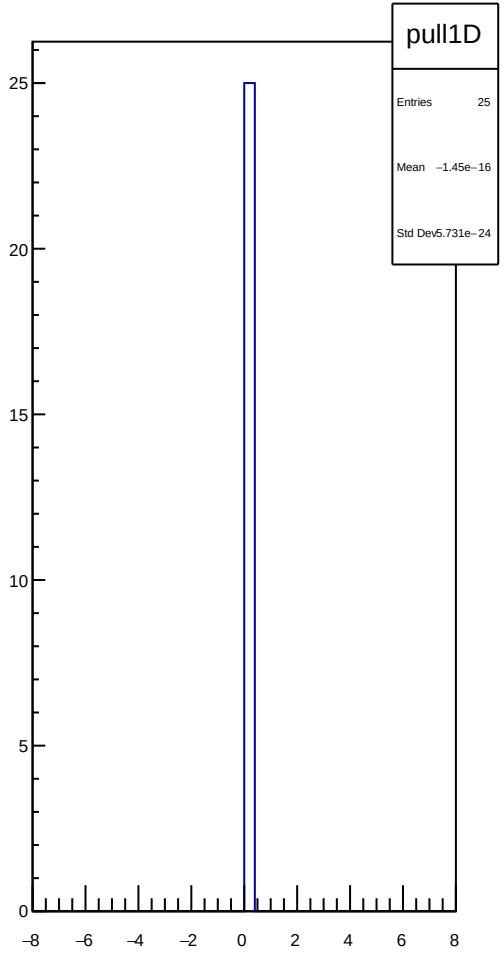

×10⁻¹⁵
0
−0.05
−0.1
−0.15
−0.2
−0.25
−0.3
−0.35
−0.4
pull
Entries 25
Mean 12.5
Std Dev 7.211

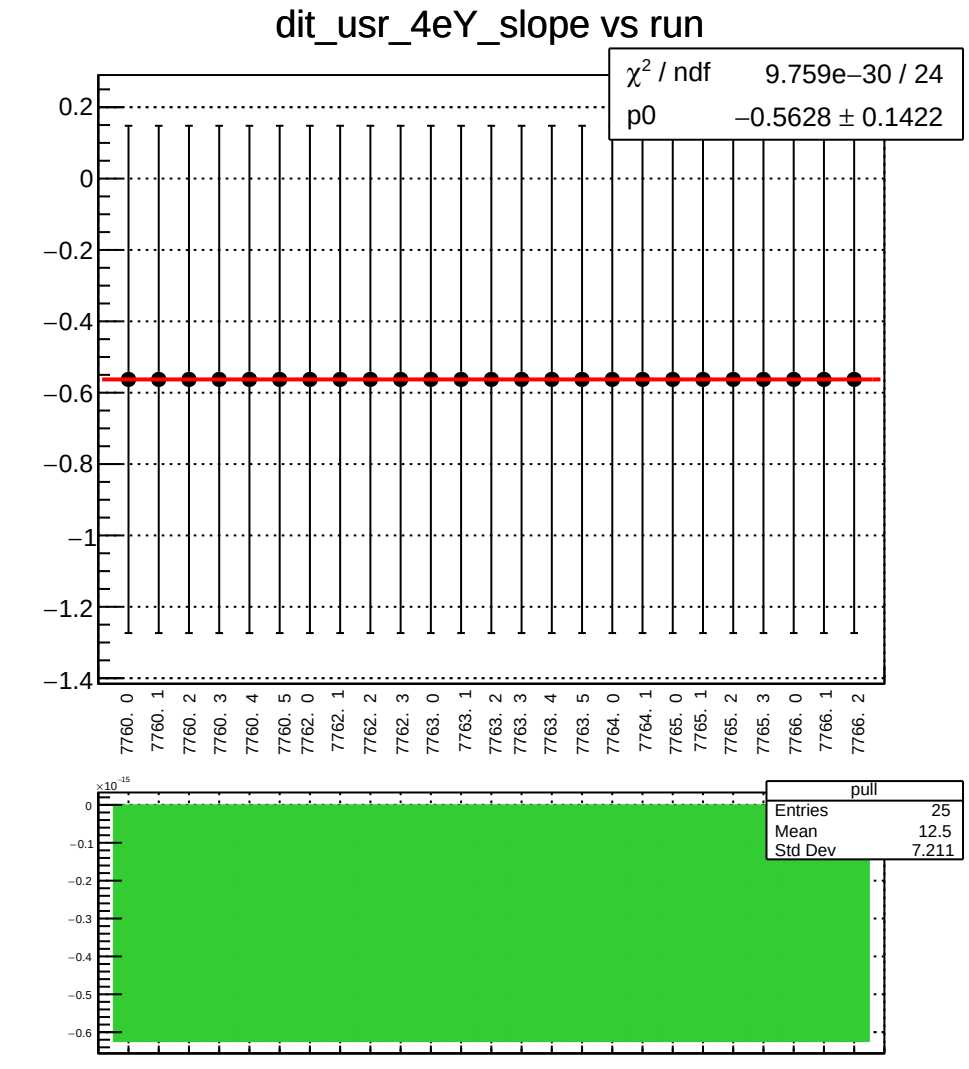

pull1D
Entries 25
Mean −3.912e−16
Std Dev1.046e−23
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

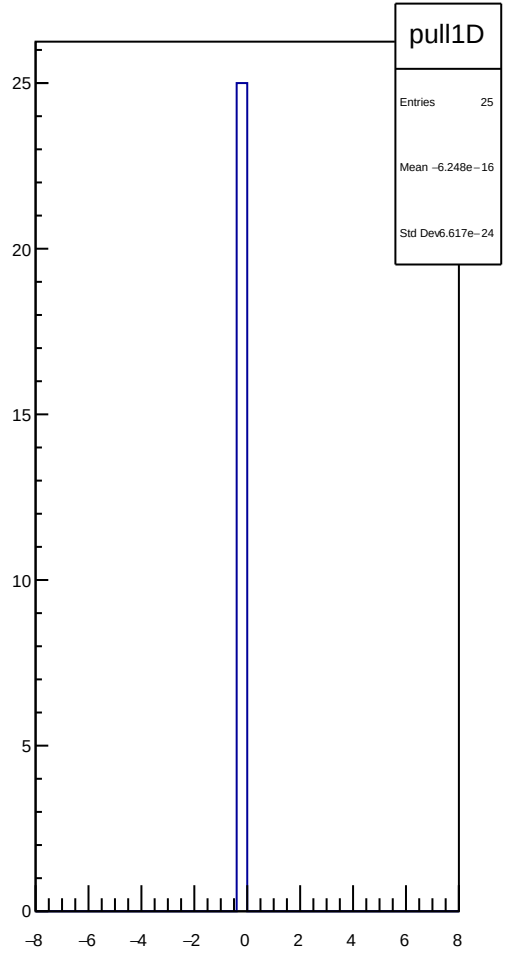

dit_usr_11X12X_slope vs run
χ² / ndf 1.792e−29 / 24
p0 −0.2591± 0.02623
−0.15
−0.2
−0.25
−0.3
−0.35
−0.4
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
×10⁻¹⁵
pull
Entries 25
Mean 12.5
Std Dev 7.211

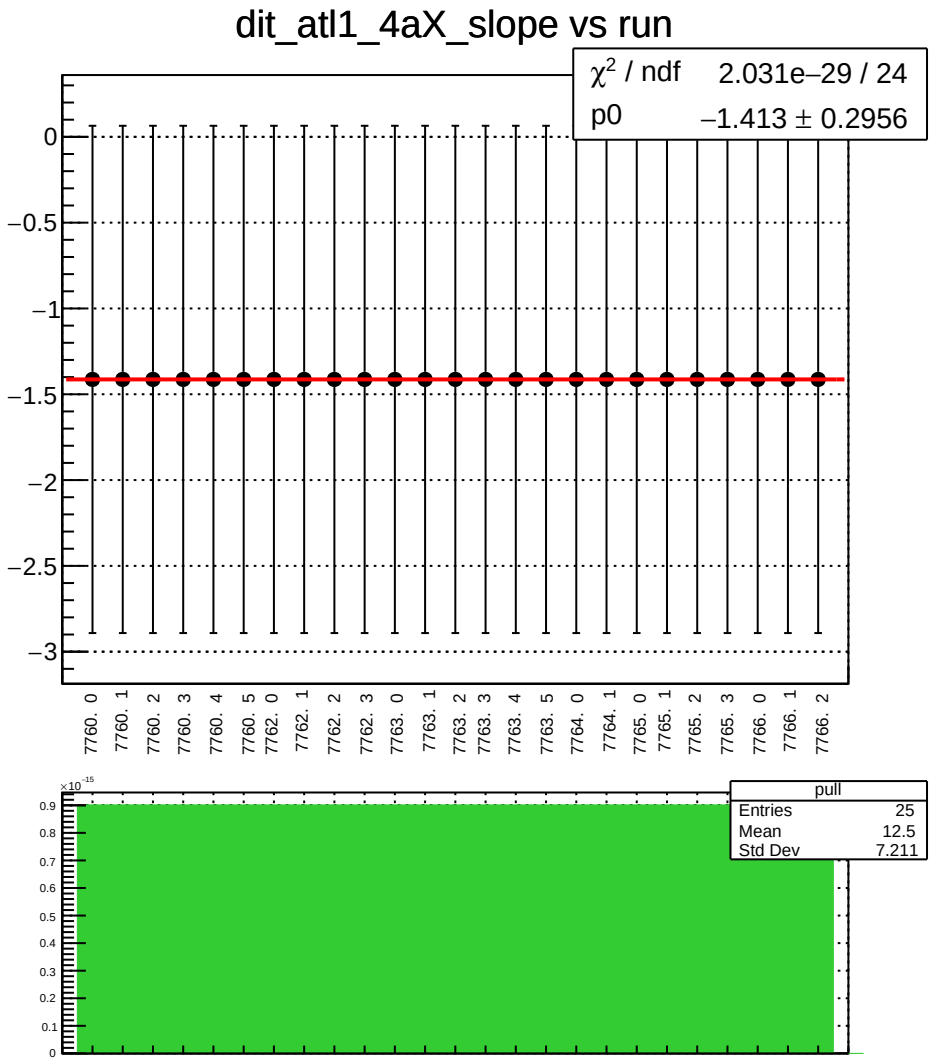

pull1D
Entries 25
Mean −8.466e−16
Std Dev3.104e−23
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

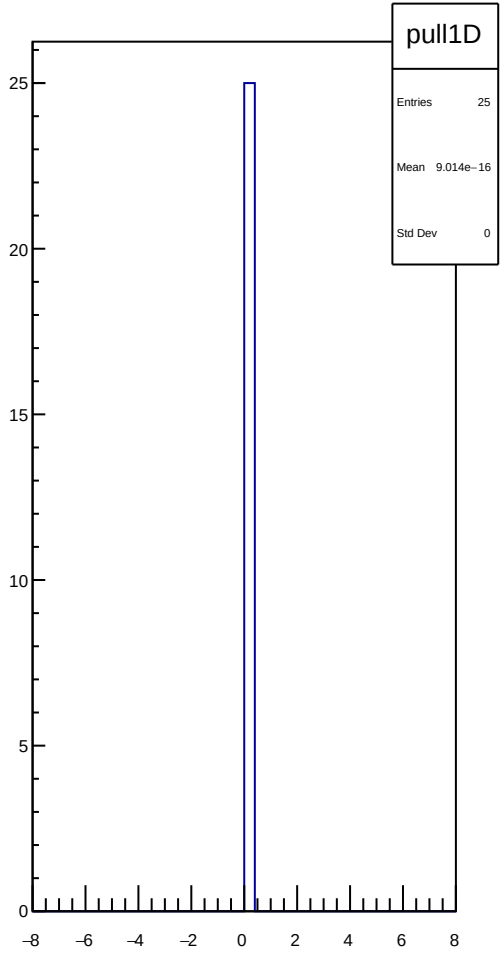

dit_usr_4aY_slope vs run
χ² / ndf 5.258e−31 / 24
p0 0.5133 ± 0.1531
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
×10⁻¹⁵
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
−0.14
pull
Entries 25
Mean 12.5
Std Dev 7.211

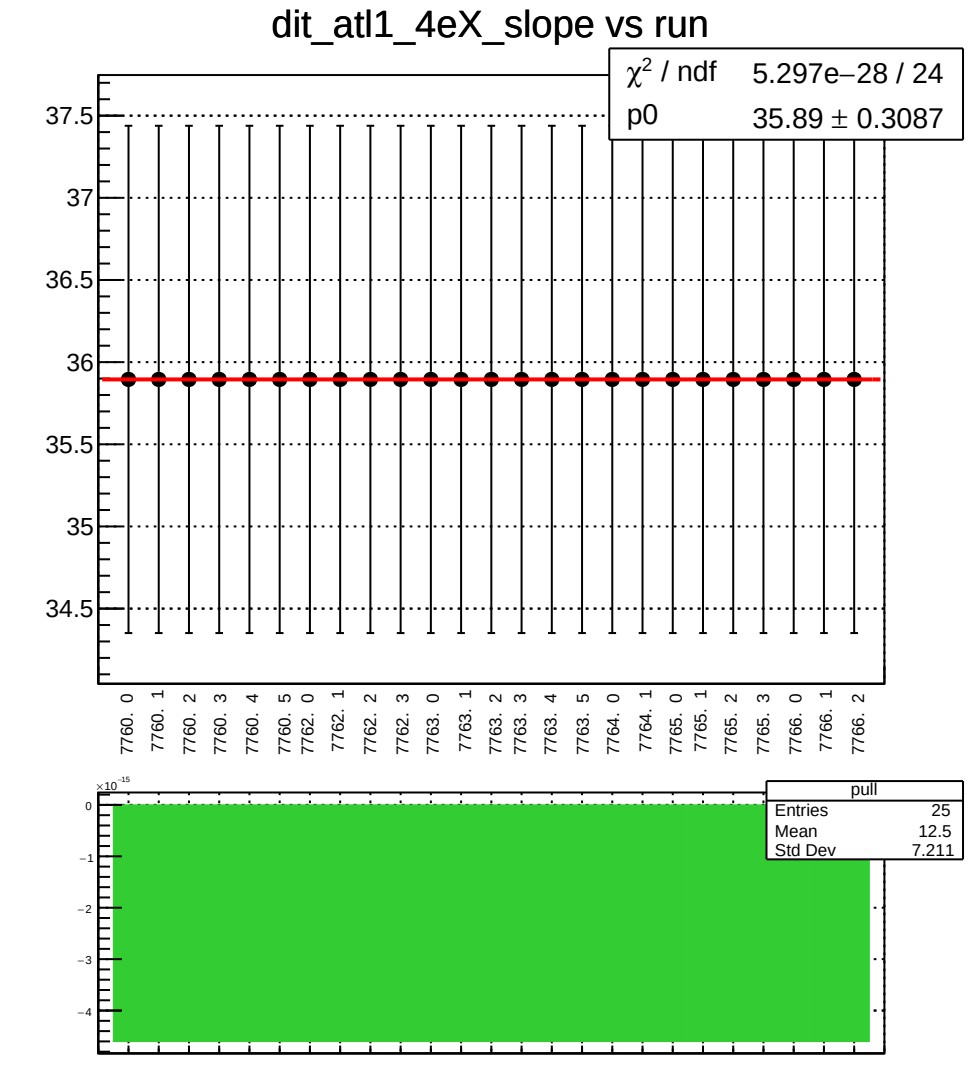

pull1D
Entries 25
Mean −1.45e−16
Std Dev 5.731e−24
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

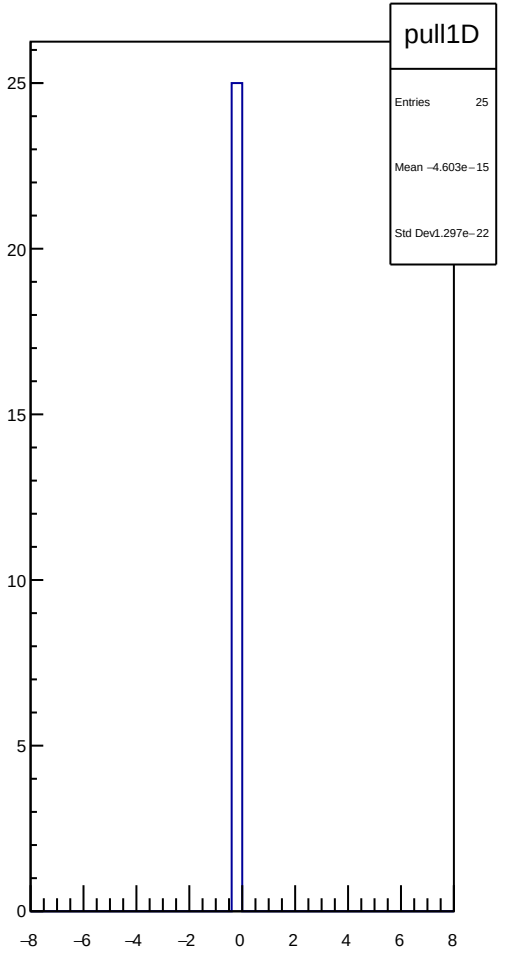

dit_usr_4eY_slope vs run
χ² / ndf 9.759e−30 / 24
p0 −0.5628 ± 0.1422
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
×10⁻¹⁵
0
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
pull
Entries 25
Mean 12.5
Std Dev 7.211

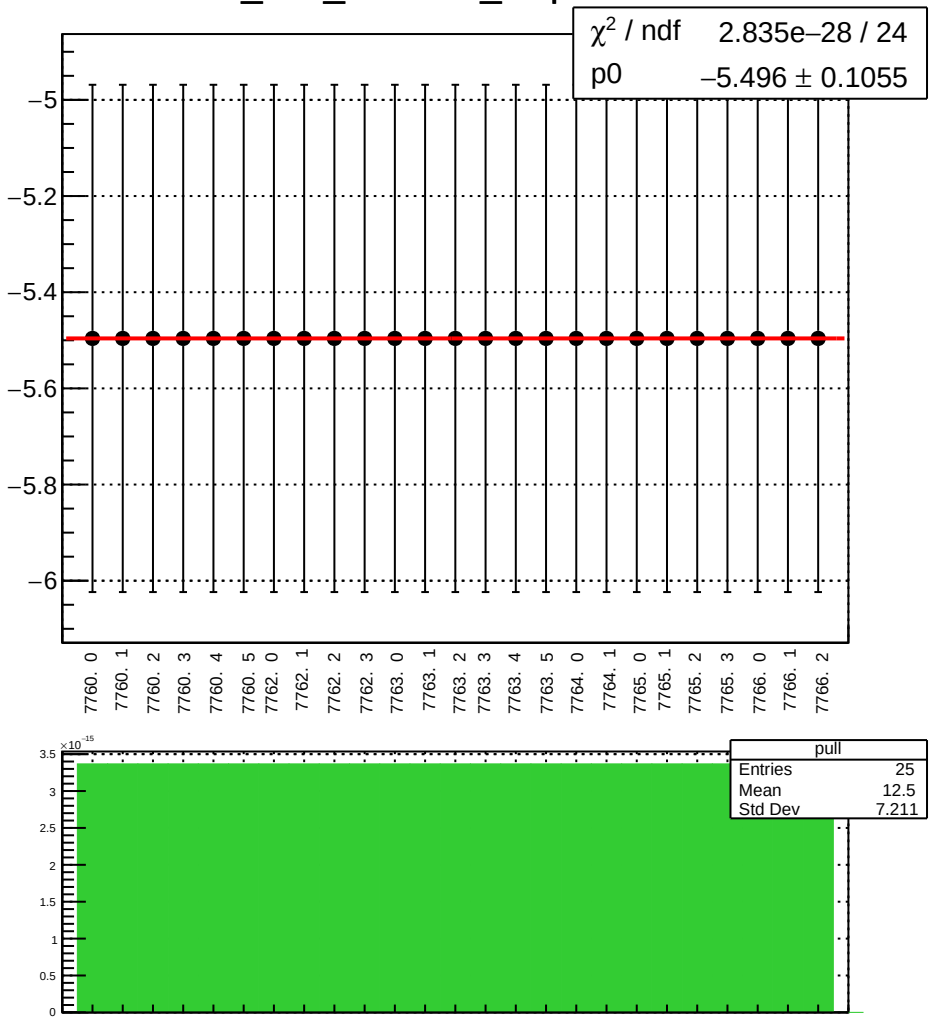

pull1D
Entries 25
Mean −6.248e−16
Std Dev 6.617e−24
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

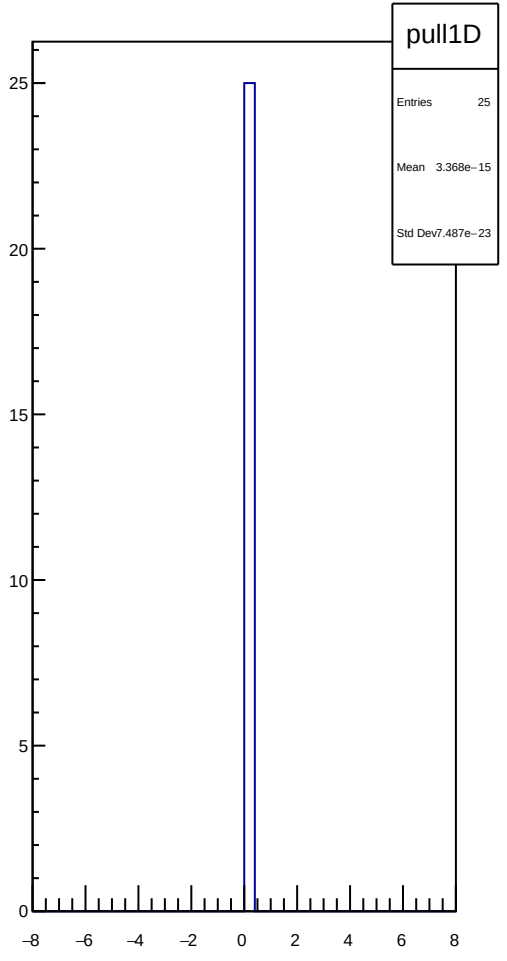

dit_atl1_4aX_slope vs run
χ² / ndf 2.031e−29 / 24
p0 −1.413 ± 0.2956
0
−0.5
−1
−1.5
−2
−2.5
−3
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
×10⁻¹⁵
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
pull
Entries 25
Mean 12.5
Std Dev 7.211

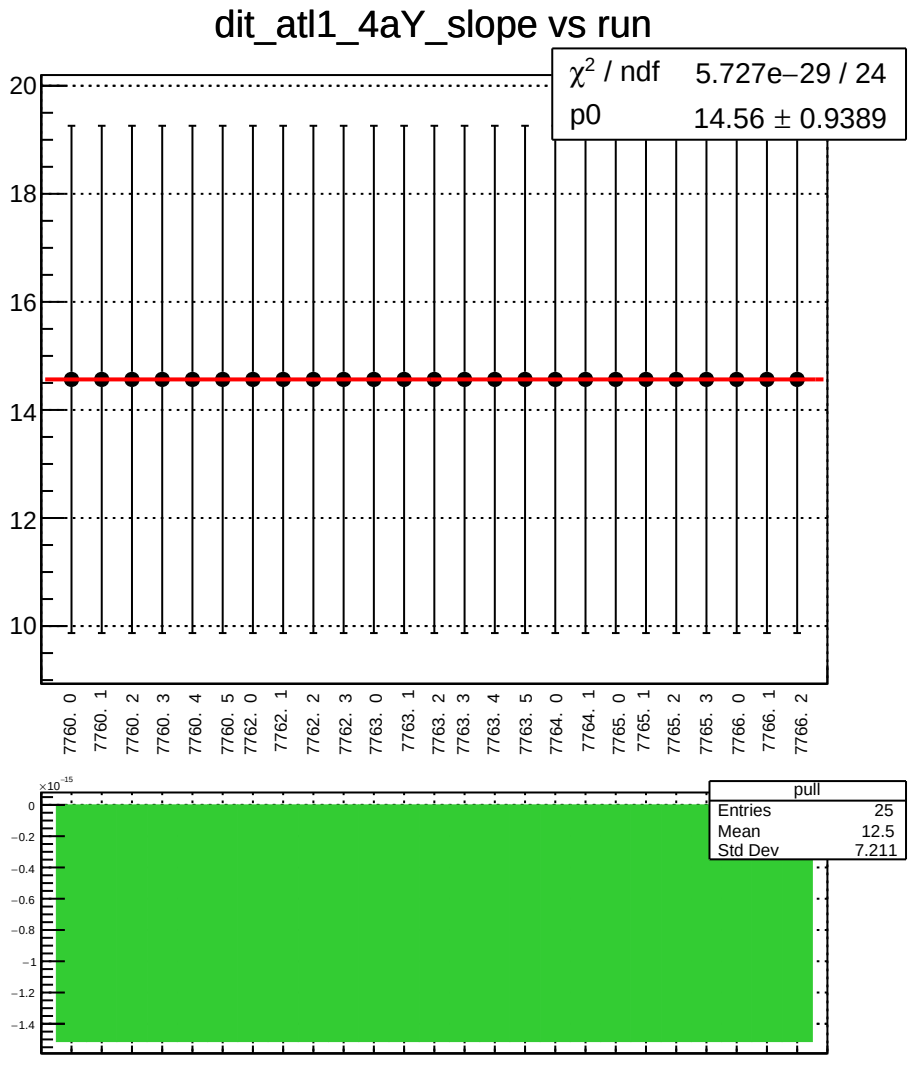

pull1D
Entries 25
Mean 9.014e−16
Std Dev 0
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

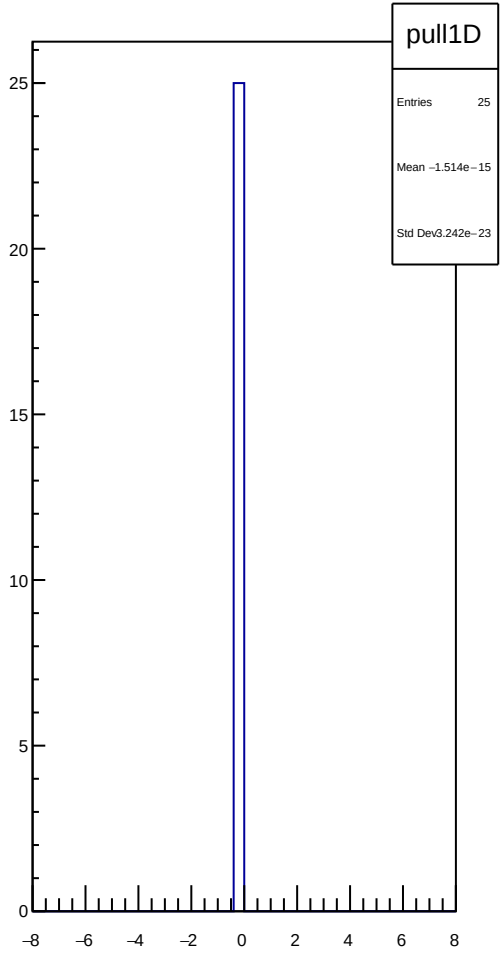

dit_atl1_4eX_slope vs run
χ² / ndf 5.297e−28 / 24
p0 35.89 ± 0.3087
37.5
37
36.5
36
35.5
35
34.5
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
×10⁻¹⁵
0
−1
−2
−3
−4
pull
Entries 25
Mean 12.5
Std Dev 7.211

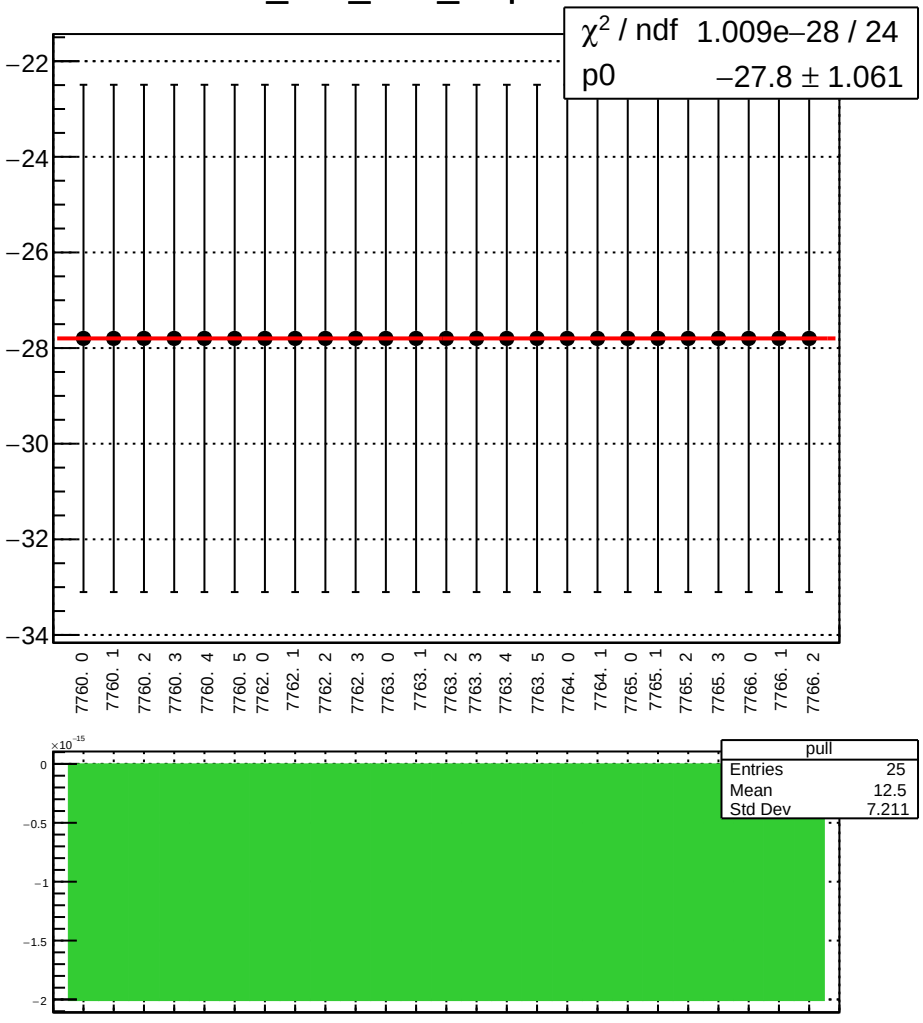

pull1D
Entries 25
Mean −4.603e−15
Std Dev1.297e−22
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

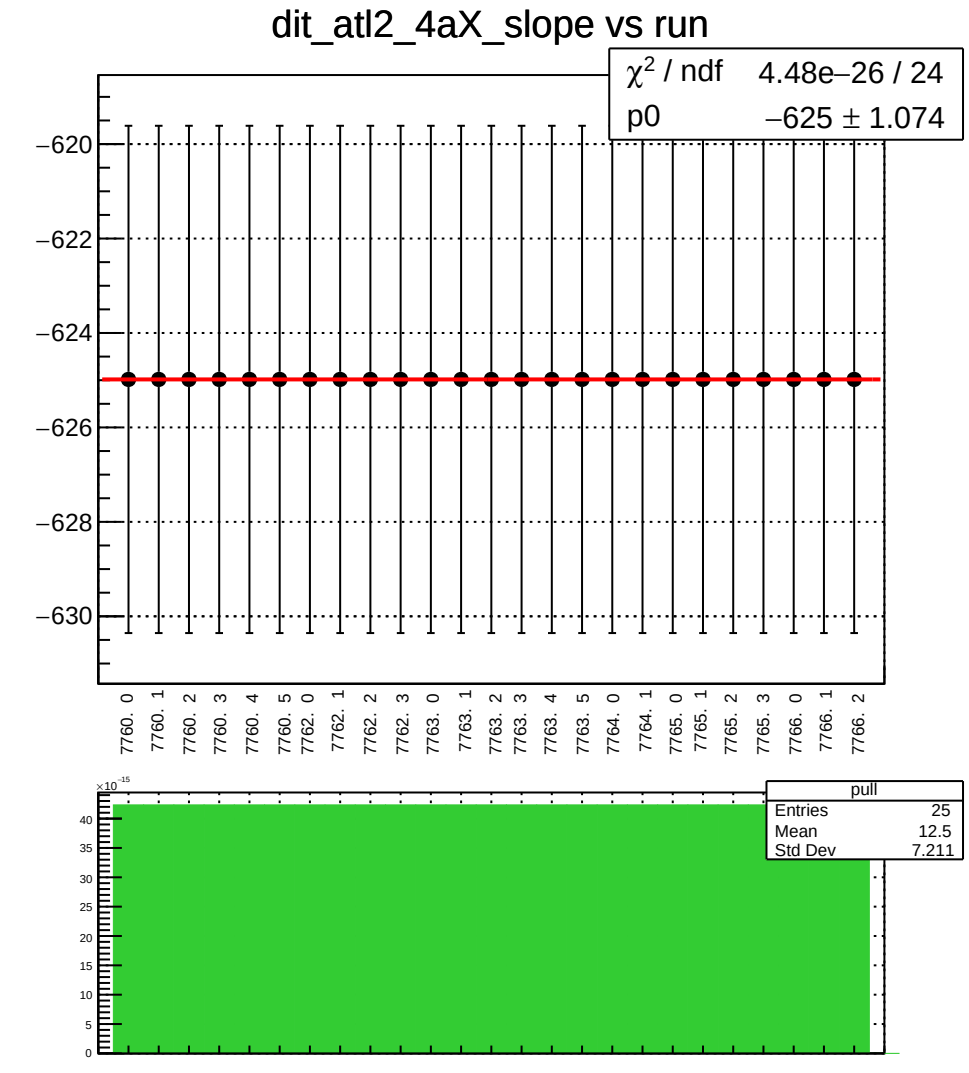

dit_atl1_11X12X_slope vs run
χ² / ndf 2.835e−28 / 24
p0 −5.496 ± 0.1055
−5
−5.2
−5.4
−5.6
−5.8
−6
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
×10⁻¹⁵
3.5
3
2.5
2
1.5
1
0.5
0
pull
Entries 25
Mean 12.5
Std Dev 7.211

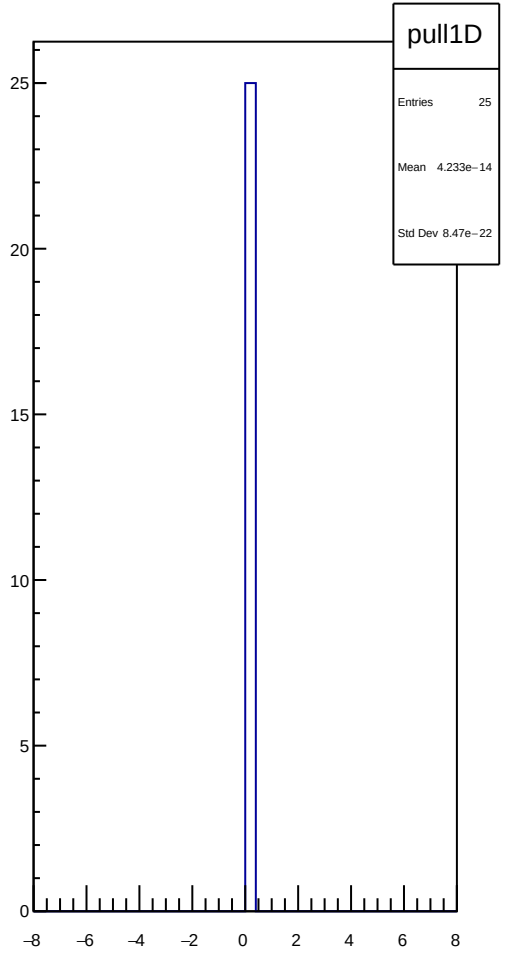

pull1D
Entries 25
Mean 3.368e−15
Std Dev7.487e−23
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

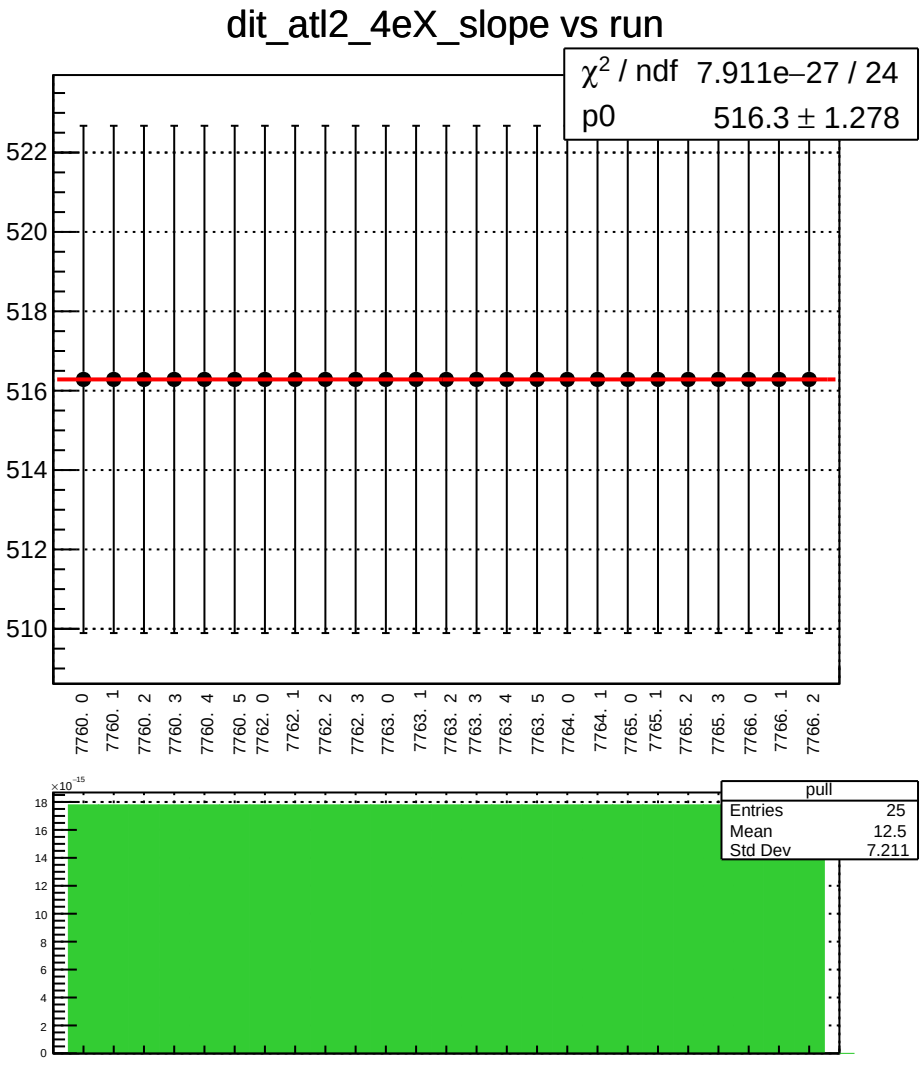

dit_atl1_4aY_slope vs run
χ² / ndf 5.727e−29 / 24
p0 14.56 ± 0.9389
20
18
16
14
12
10
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
×10⁻¹⁵
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4
pull
Entries 25
Mean 12.5
Std Dev 7.211

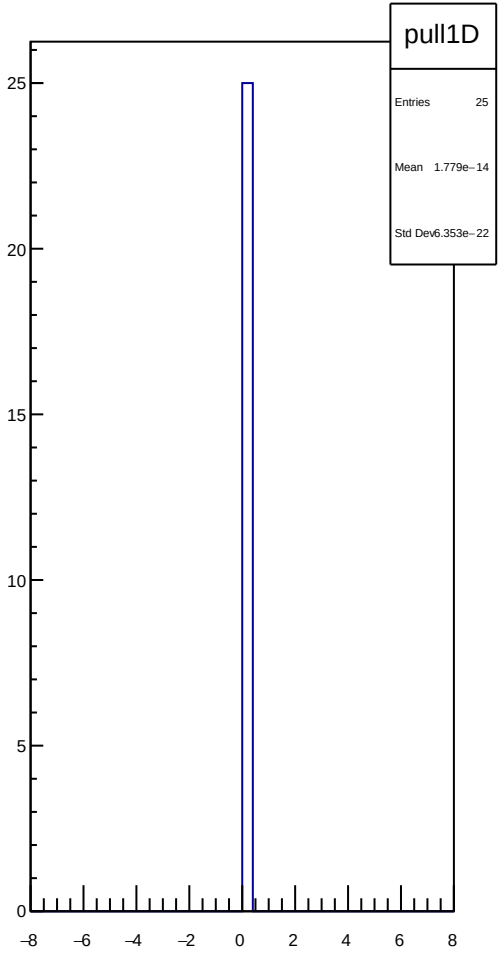

pull1D
Entries 25
Mean −1.514e−15
Std Dev3.242e−23
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

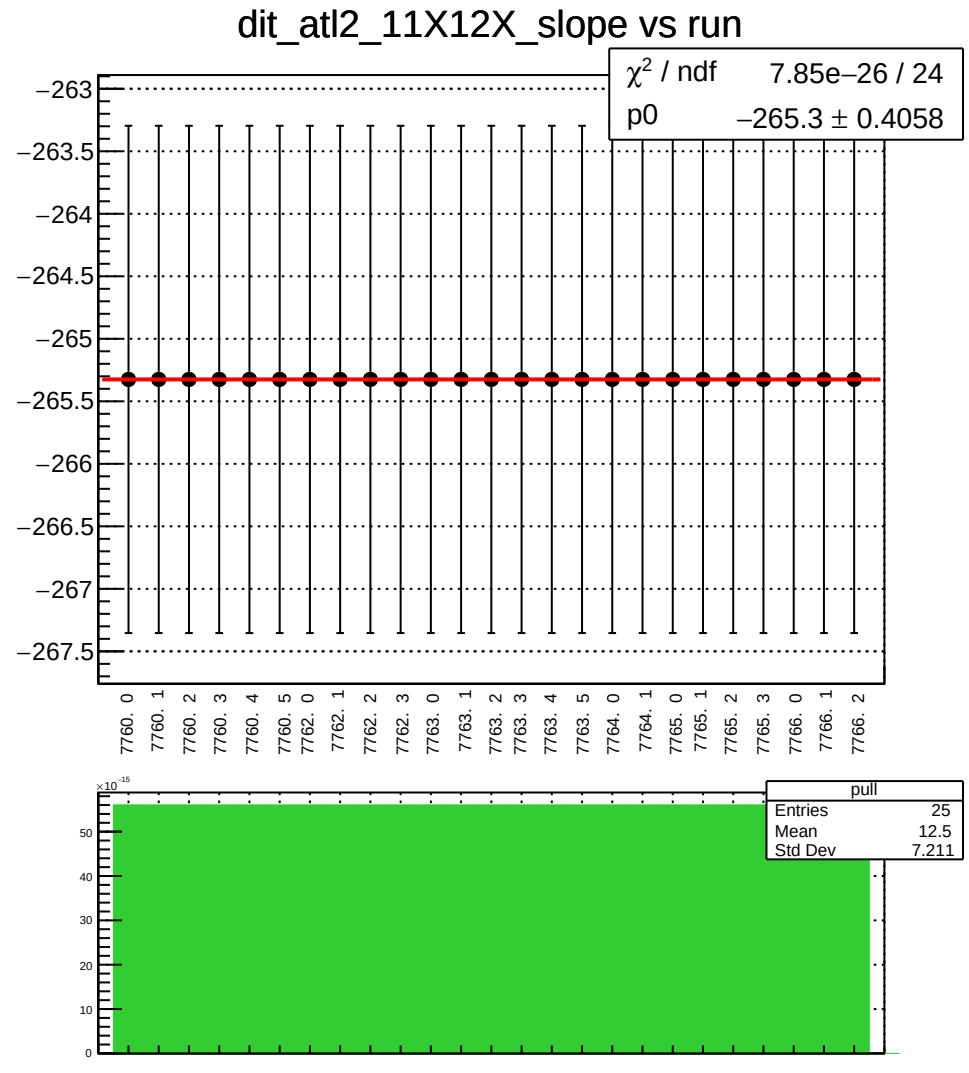

dit_atl1_4eY_slope vs run
χ² / ndf 1.009e−28 / 24
p0 −27.8 ± 1.061
−22
−24
−26
−28
−30
−32
−34
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
×10⁻¹⁵
0
−0.5
−1
−1.5
−2
pull
Entries 25
Mean 12.5
Std Dev 7.211
pull1D
Entries 25
Mean −2.009e−15
Std Dev 0
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

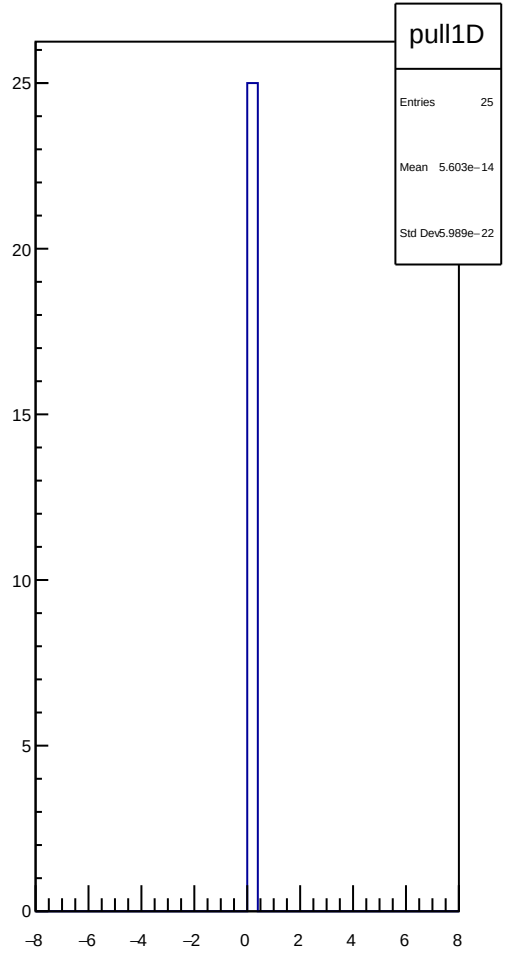

dit_atl2_4aX_slope vs run
χ² / ndf 4.48e−26 / 24
p0 −625 ± 1.074
−620
−622
−624
−626
−628
−630
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
×10⁻¹⁵
40
35
30
25
20
15
10
5
0
pull
Entries 25
Mean 12.5
Std Dev 7.211

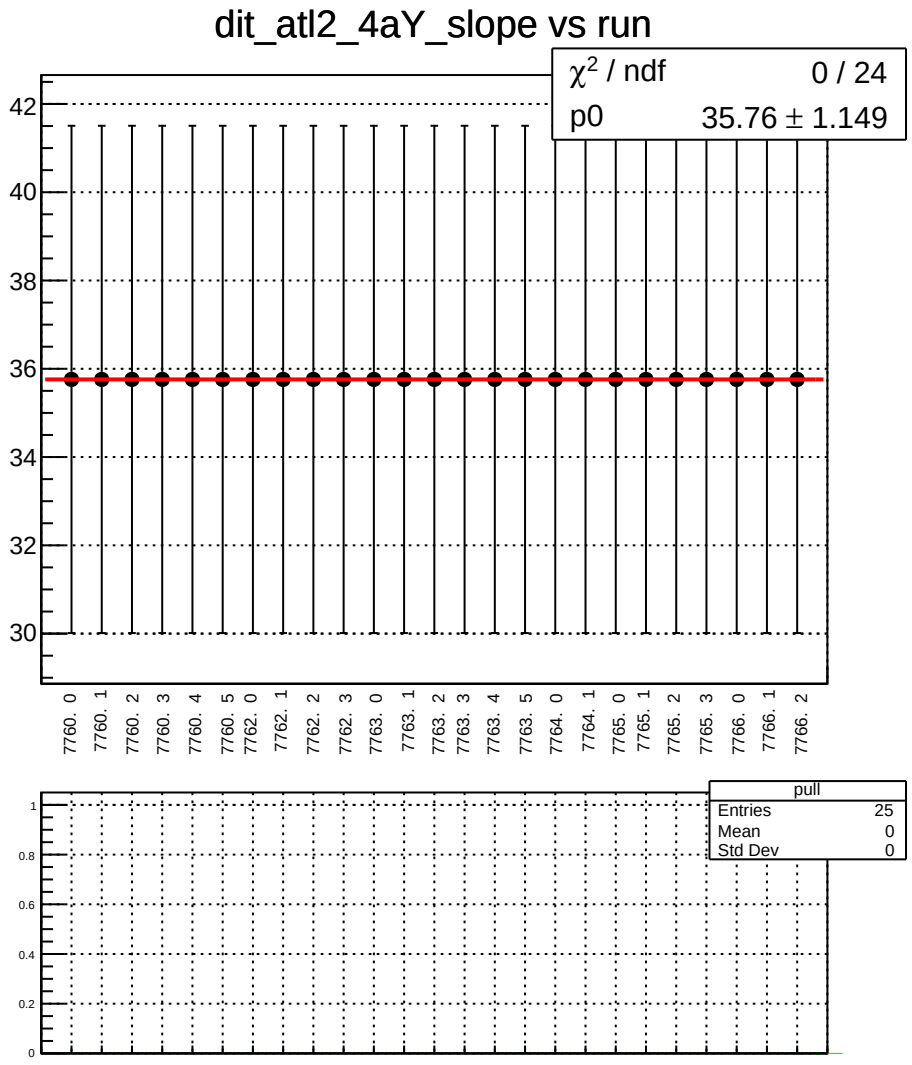

pull1D
Entries 25
Mean 4.233e−14
Std Dev 8.47e−22
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

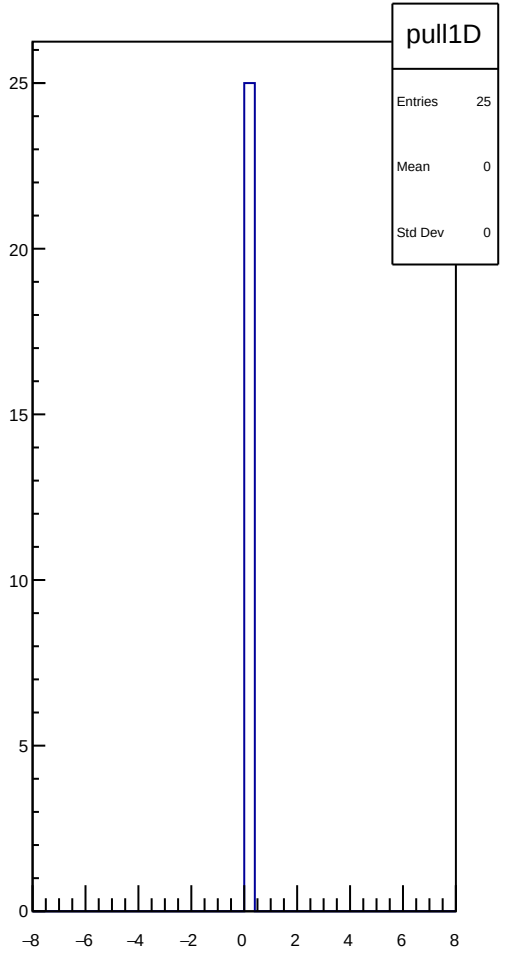

dit_atl2_4eX_slope vs run
χ² / ndf 7.911e−27 / 24
p0 516.3 ± 1.278
522
520
518
516
514
512
510
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
×10⁻¹⁵
18
16
14
12
10
8
6
4
2
0
pull
Entries 25
Mean 12.5
Std Dev 7.211

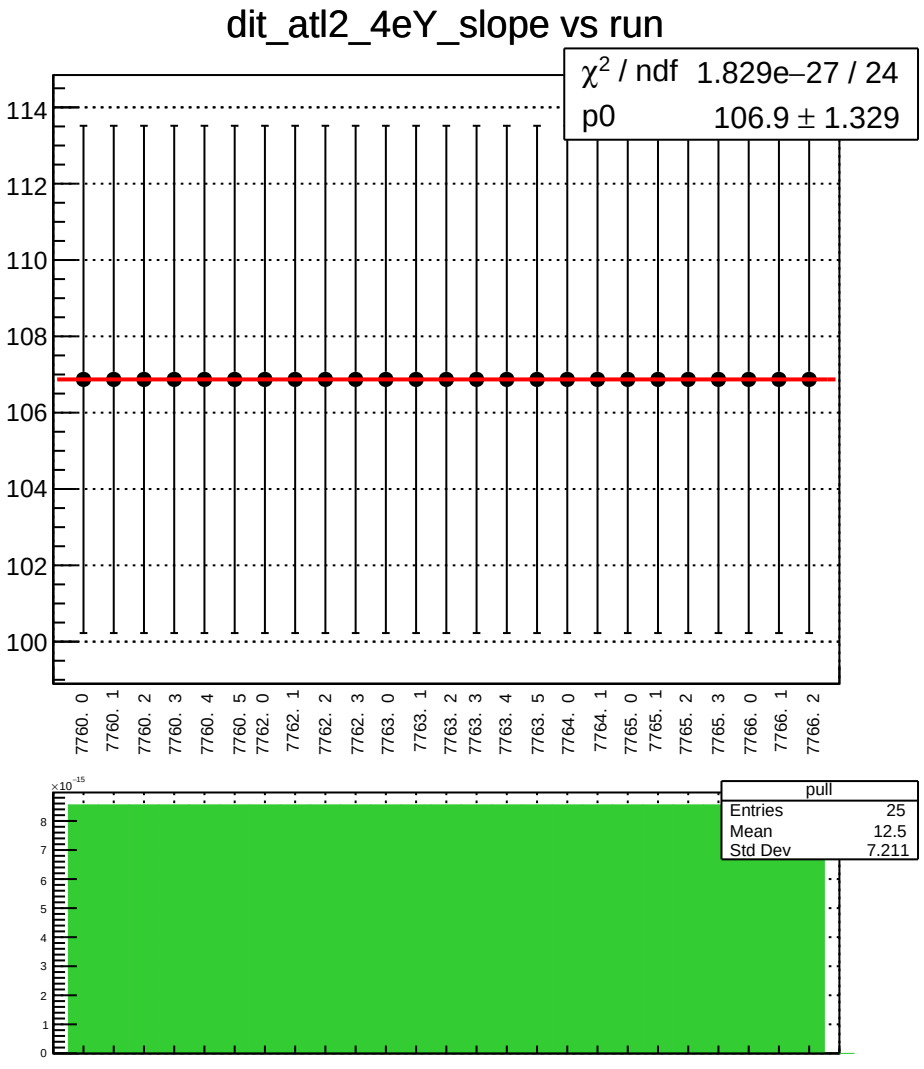

pull1D
Entries 25
Mean 1.779e−14
Std Dev 6.353e−22
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

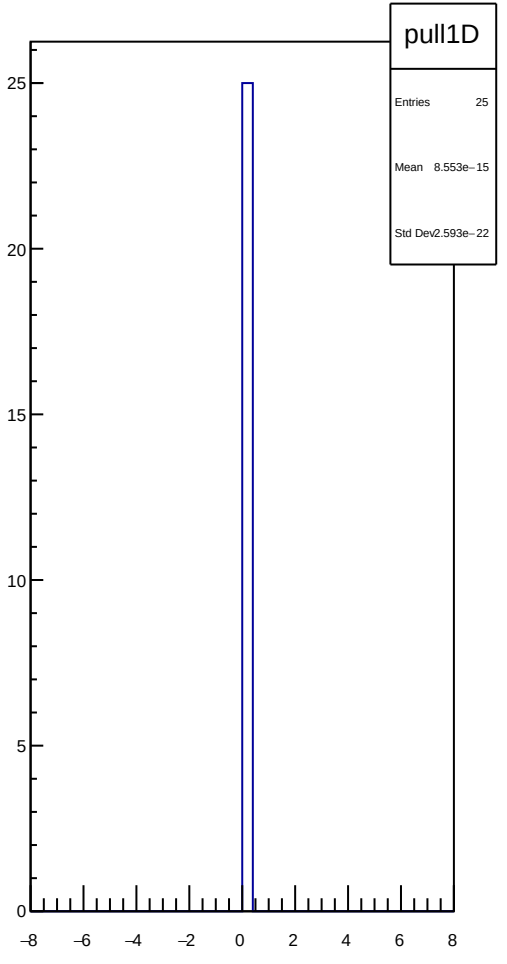

dit_atl2_11X12X_slope vs run
χ² / ndf 7.85e−26 / 24
p0 −265.3 ± 0.4058
−263
−263.5
−264
−264.5
−265
−265.5
−266
−266.5
−267
−267.5
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
×10⁻¹⁵
50
40
30
20
10
0
pull
Entries 25
Mean 12.5
Std Dev 7.211

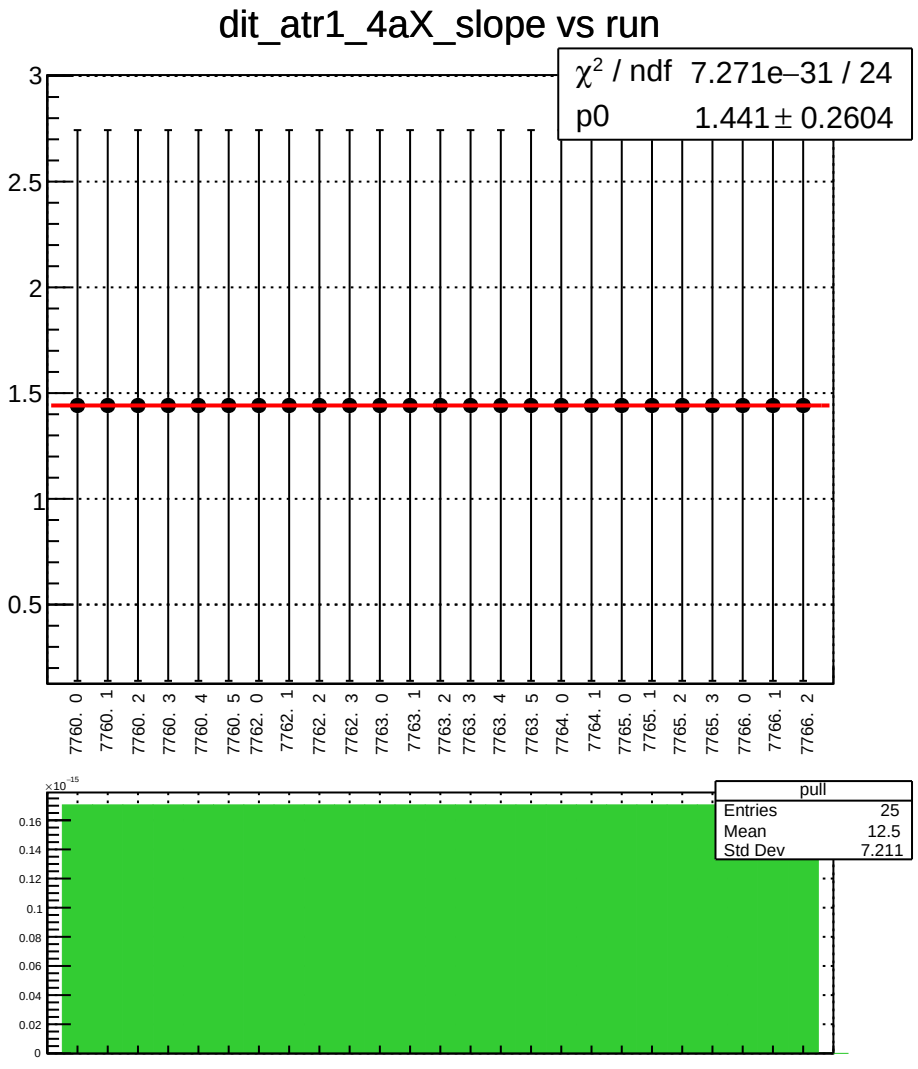

pull1D
Entries 25
Mean 5.603e−14
Std Dev 5.989e−22
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

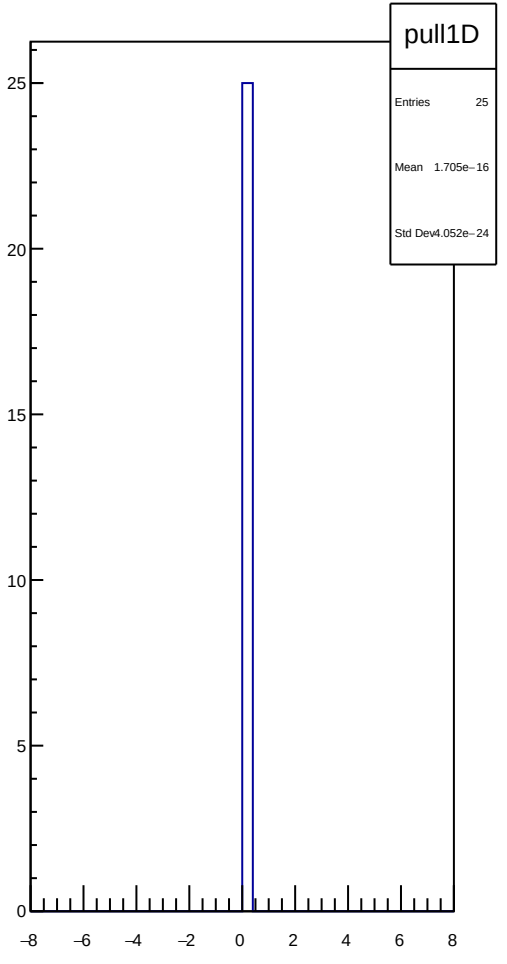

dit_atl2_4aY_slope vs run
χ^2 / ndf 0 / 24
p0 35.76 ± 1.149
42
40
38
36
34
32
30
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

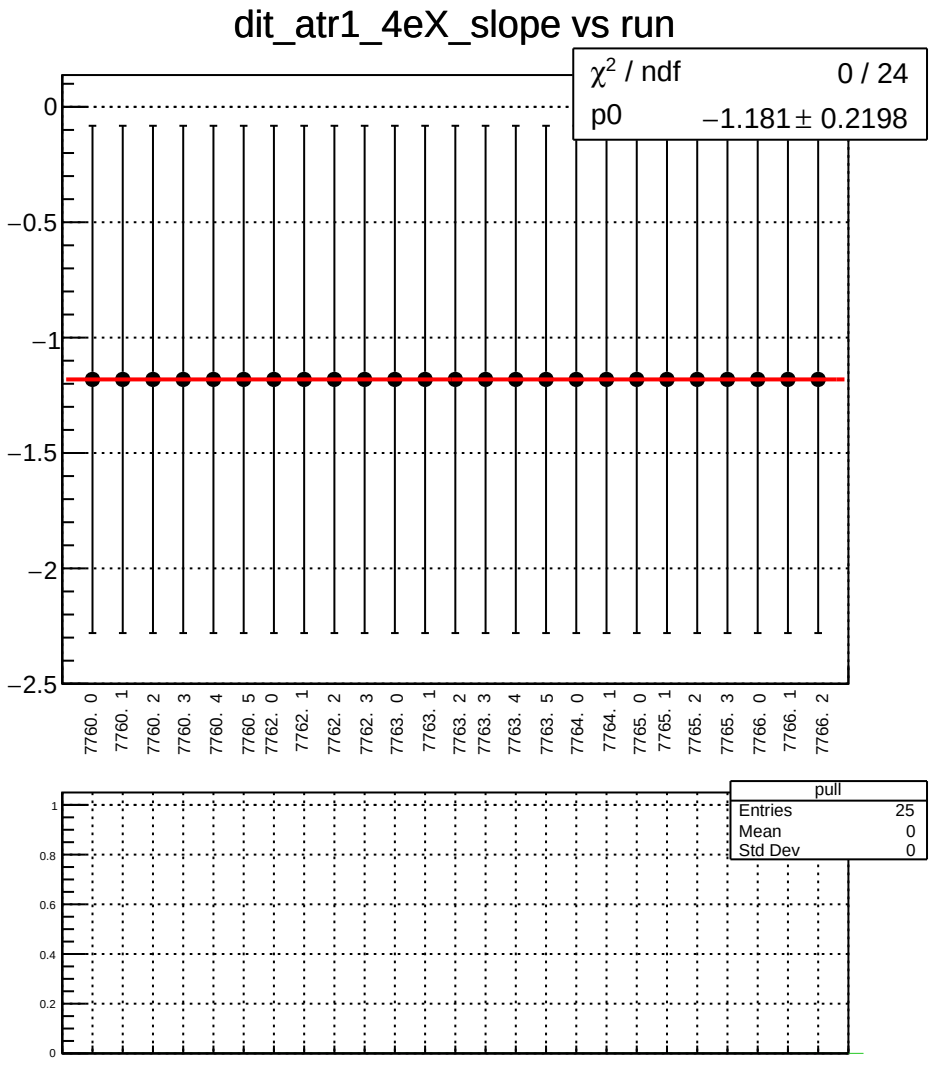

pull1D
Entries 25
Mean 0
Std Dev 0
25
20
15
10
5
0
–8
–6
–4
–2
0
2
4
6
8

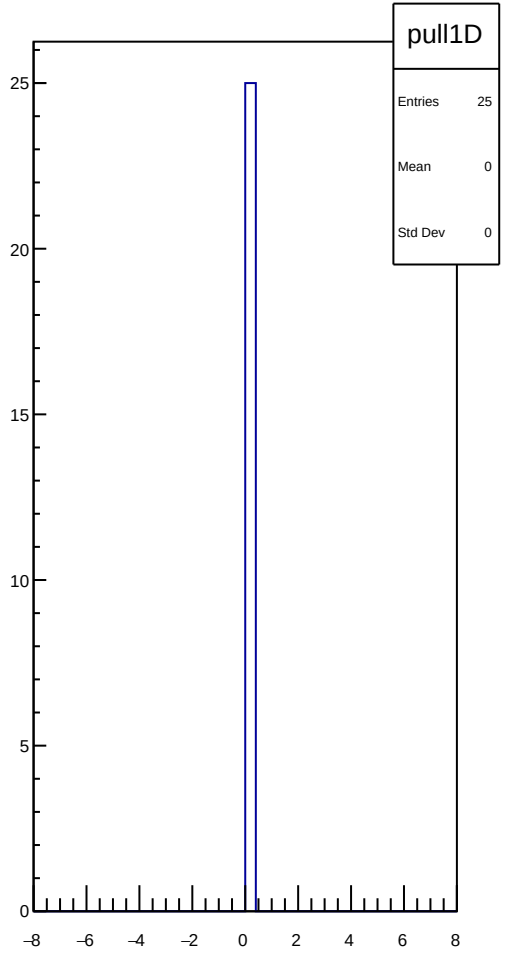

dit_atl2_4eY_slope vs run
χ² / ndf 1.829e−27 / 24
p0 106.9 ± 1.329
114
112
110
108
106
104
102
100
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
×10⁻¹⁵
8
7
6
5
4
3
2
1
0
pull
Entries 25
Mean 12.5
Std Dev 7.211

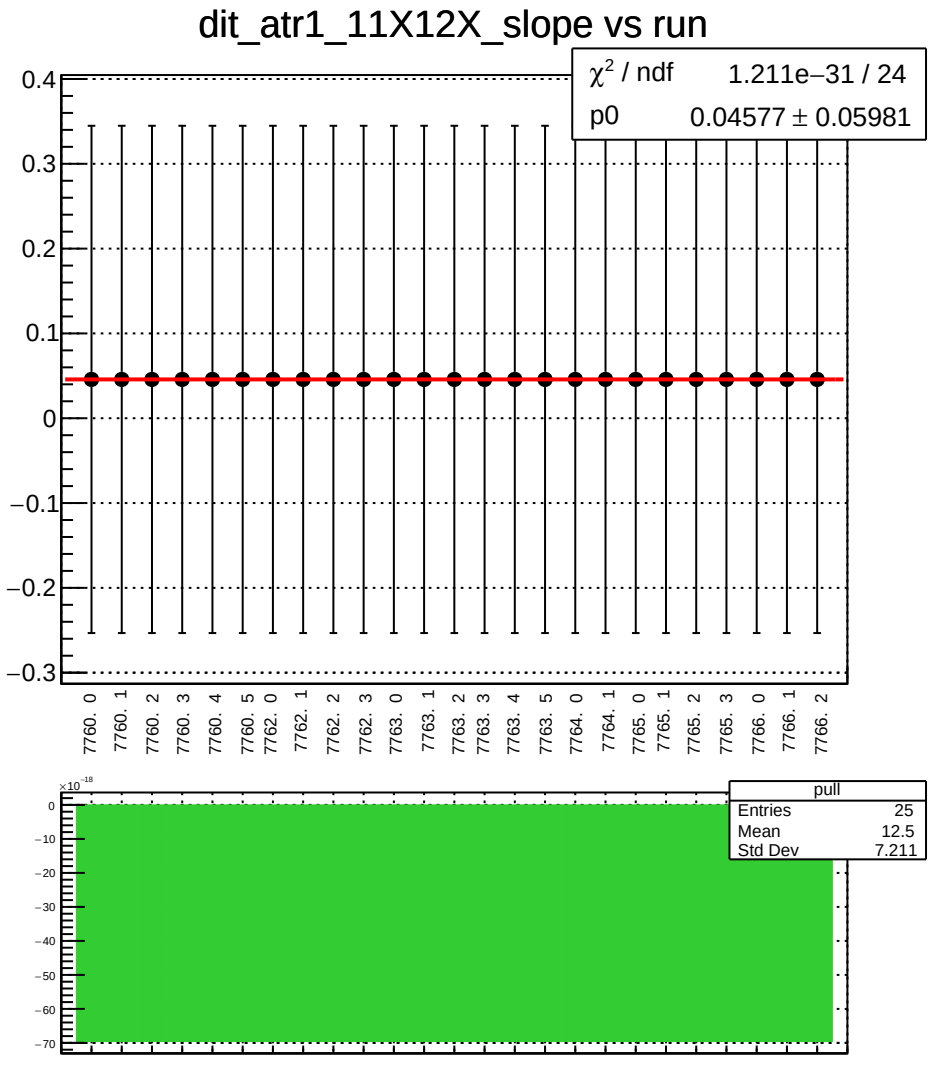

pull1D
Entries 25
Mean 8.553e−15
Std Dev 2.593e−22
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

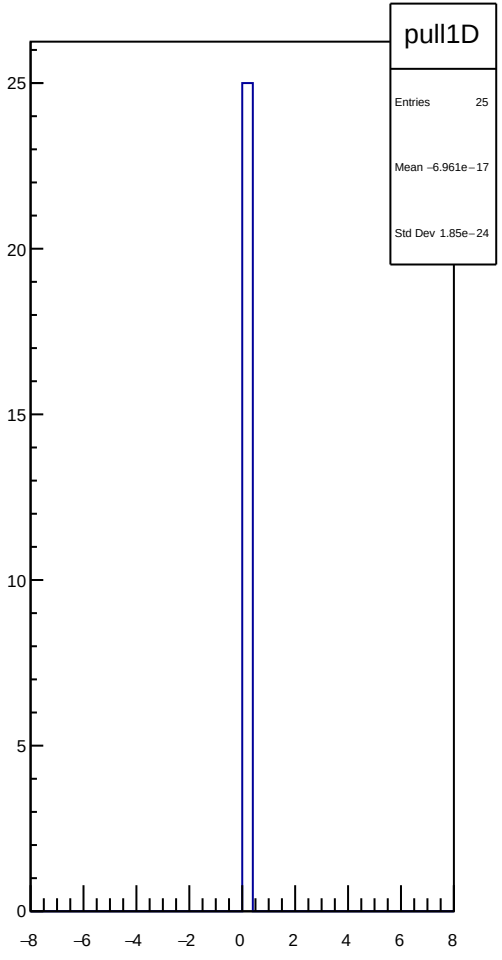

dit_atr1_4aX_slope vs run
χ² / ndf 7.271e−31 / 24
p0 1.441 ± 0.2604
3
2.5
2
1.5
1
0.5
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
×10⁻¹⁵
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
pull
Entries 25
Mean 12.5
Std Dev 7.211

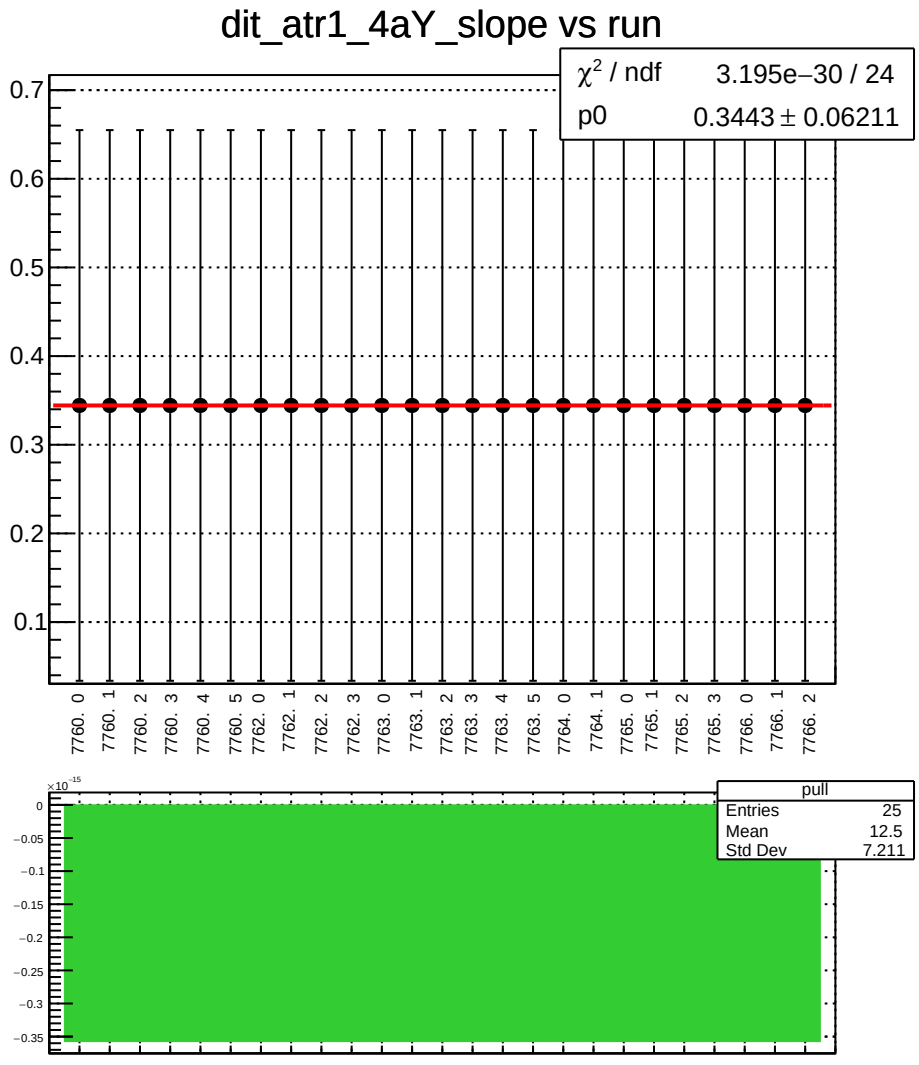

pull1D
Entries 25
Mean 1.705e−16
Std Dev4.052e−24
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

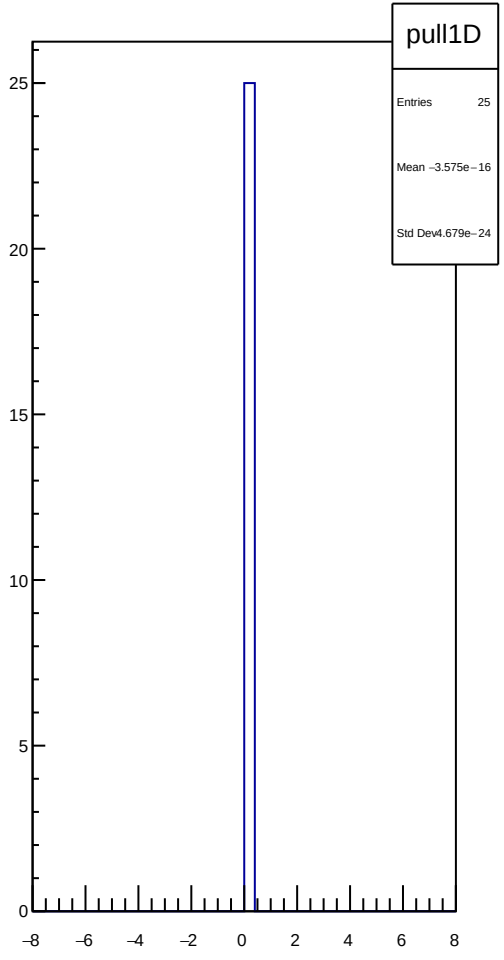

dit_atr1_4eX_slope vs run
χ² / ndf 0 / 24
p0 −1.181 ± 0.2198
0
−0.5
−1
−1.5
−2
−2.5
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

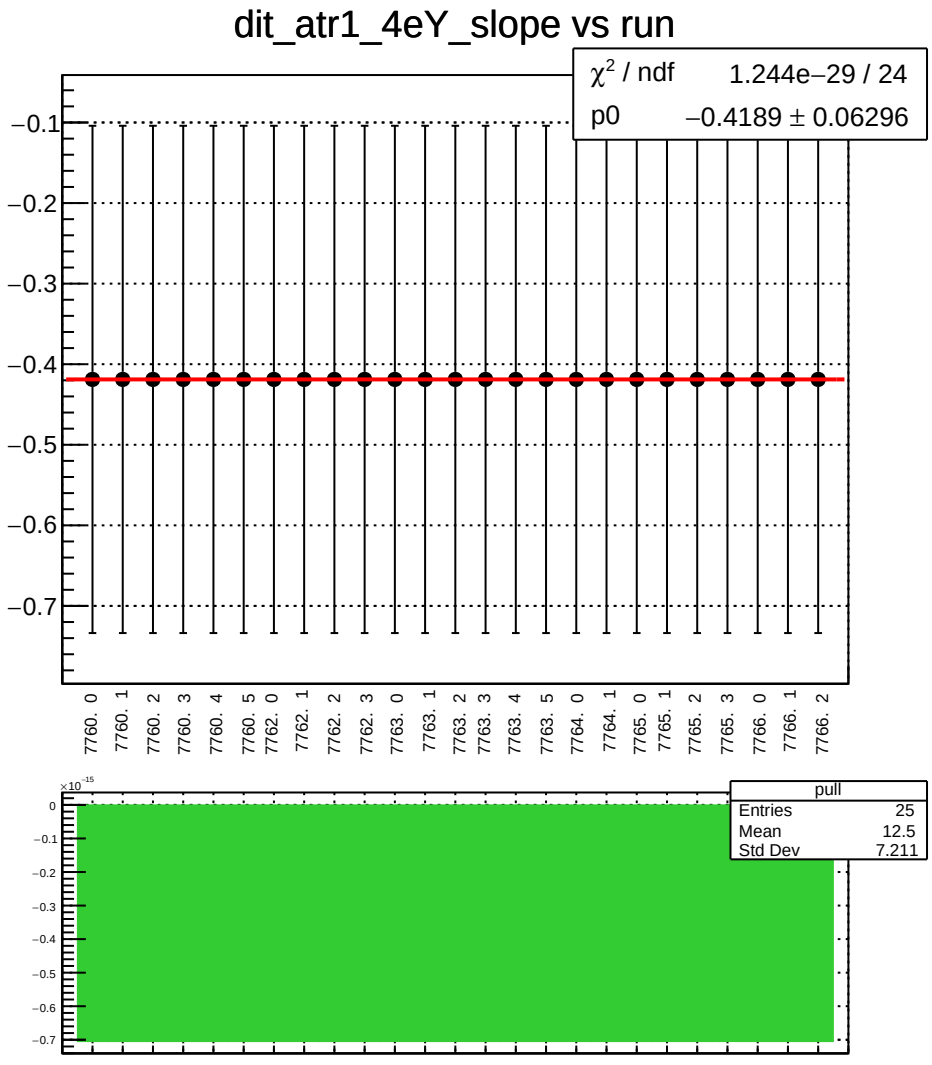

pull1D
Entries 25
Mean 0
Std Dev 0
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

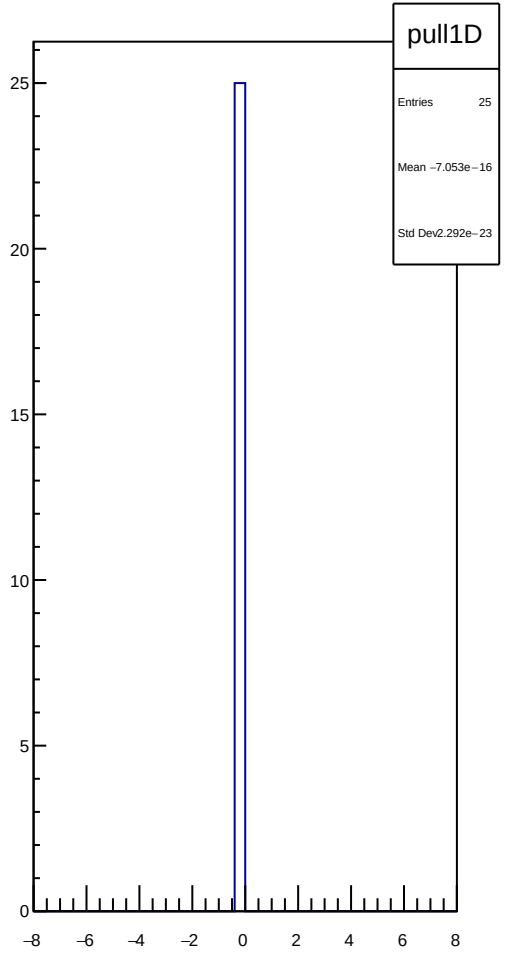

dit_atr1_11X12X_slope vs run
χ² / ndf 1.211e−31 / 24
p0 0.04577 ± 0.05981
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
×10⁻¹⁸
0
−10
−20
−30
−40
−50
−60
−70
pull
Entries 25
Mean 12.5
Std Dev 7.211

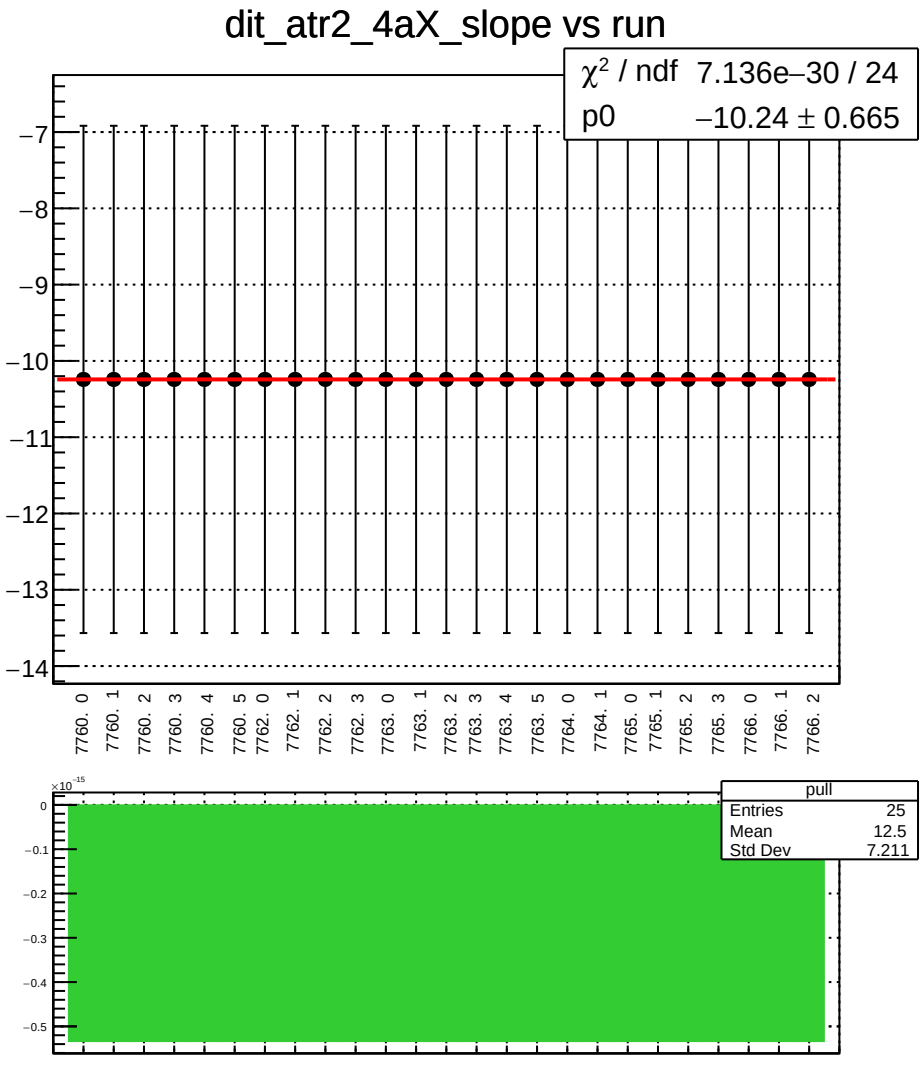

pull1D
Entries 25
Mean −6.961e−17
Std Dev 1.85e−24
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

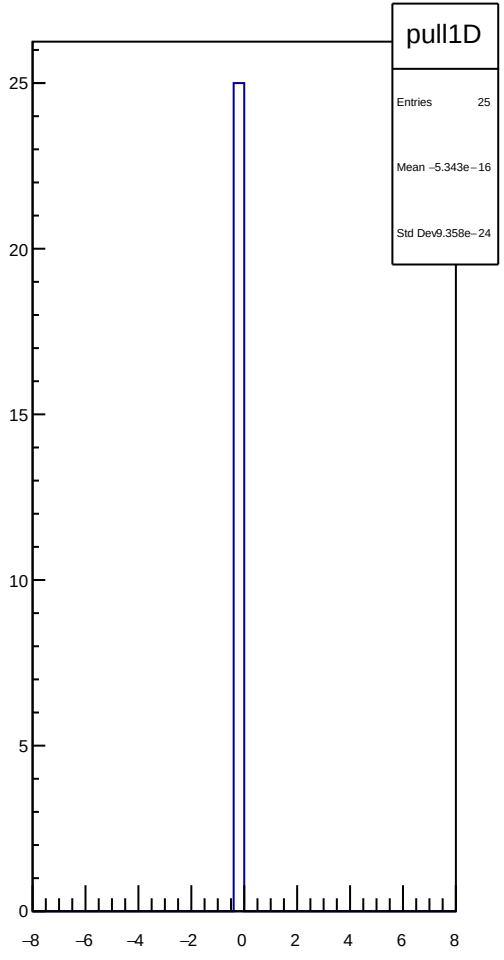

dit_atr1_4aY_slope vs run
χ² / ndf 3.195e−30 / 24
p0 0.3443 ± 0.06211
0.7
0.6
0.5
0.4
0.3
0.2
0.1
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
×10⁻¹⁵
0
−0.05
−0.1
−0.15
−0.2
−0.25
−0.3
−0.35
pull
Entries 25
Mean 12.5
Std Dev 7.211

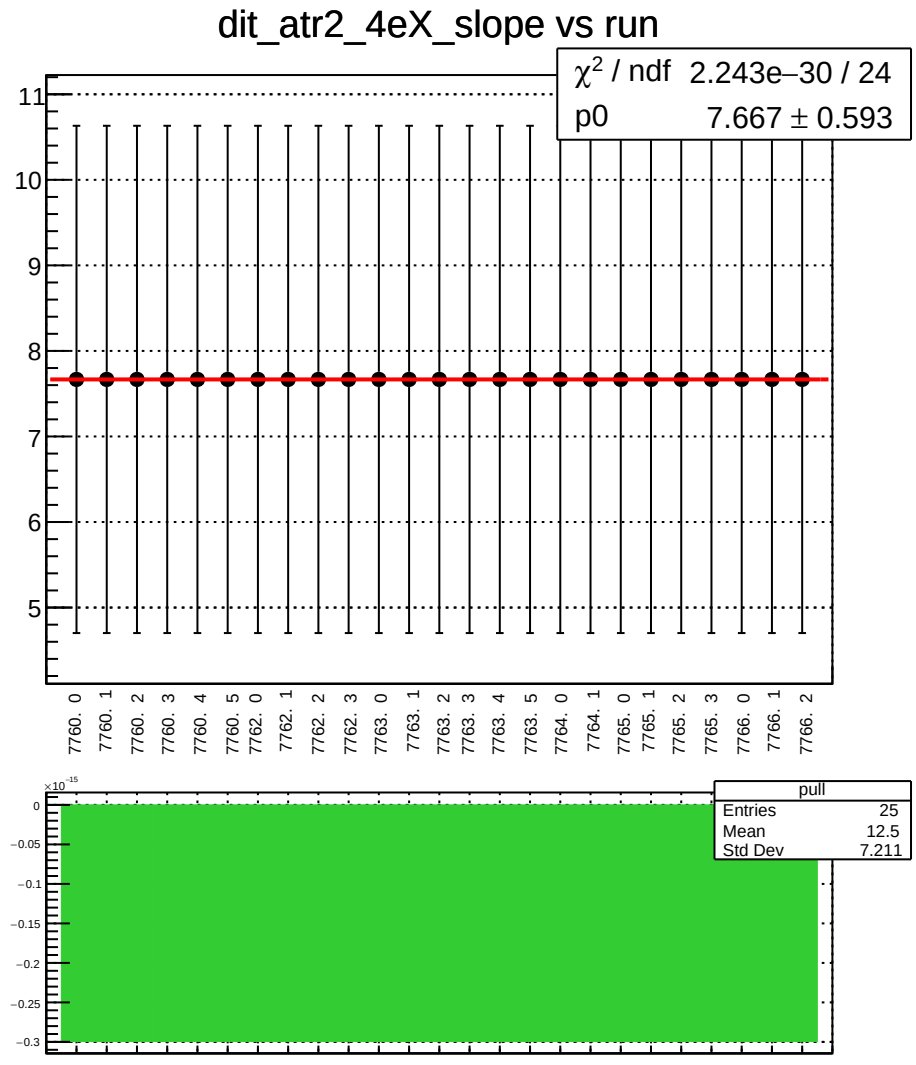

pull1D
Entries 25
Mean −3.575e−16
Std Dev4.679e−24
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

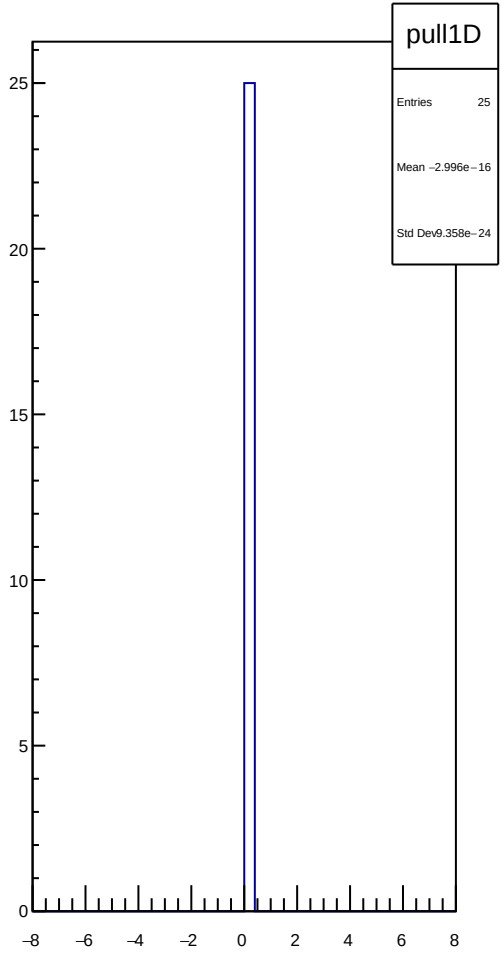

dit_atr1_4eY_slope vs run
χ² / ndf 1.244e−29 / 24
p0 −0.4189 ± 0.06296
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
×10⁻¹⁵
pull
Entries 25
Mean 12.5
Std Dev 7.211

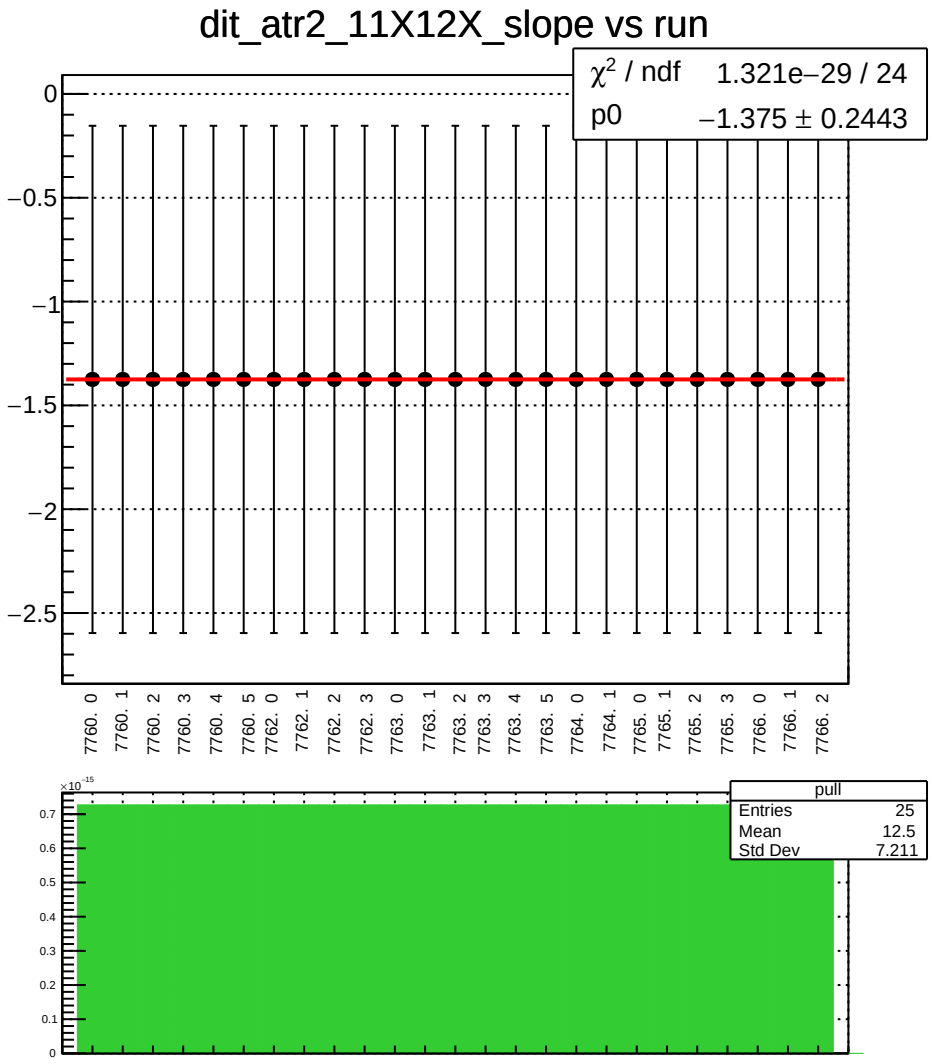

pull1D
Entries 25
Mean −7.053e−16
Std Dev 2.292e−23
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

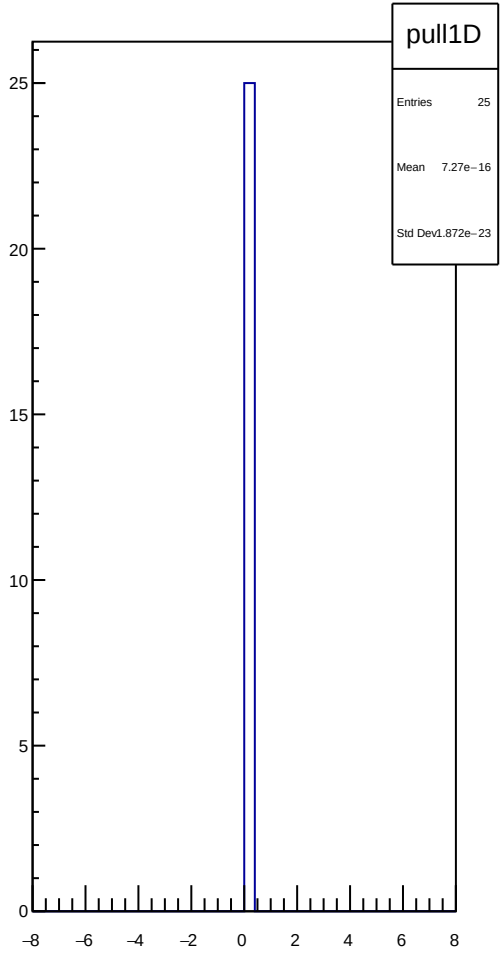

dit_atr2_4aX_slope vs run
χ² / ndf 7.136e−30 / 24
p0 −10.24 ± 0.665
−7
−8
−9
−10
−11
−12
−13
−14
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
×10⁻¹⁵
0
−0.1
−0.2
−0.3
−0.4
−0.5
pull
Entries 25
Mean 12.5
Std Dev 7.211

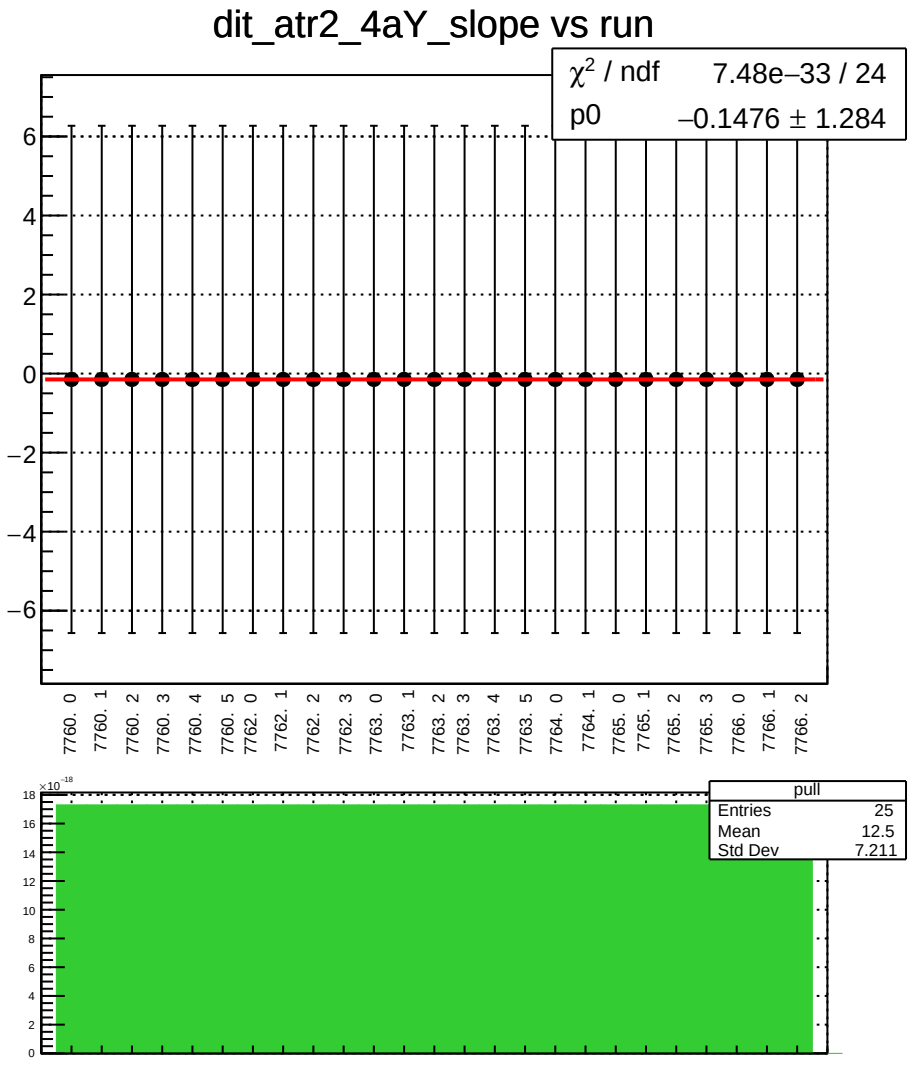

pull1D
Entries 25
Mean −5.343e−16
Std Dev 9.358e−24
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

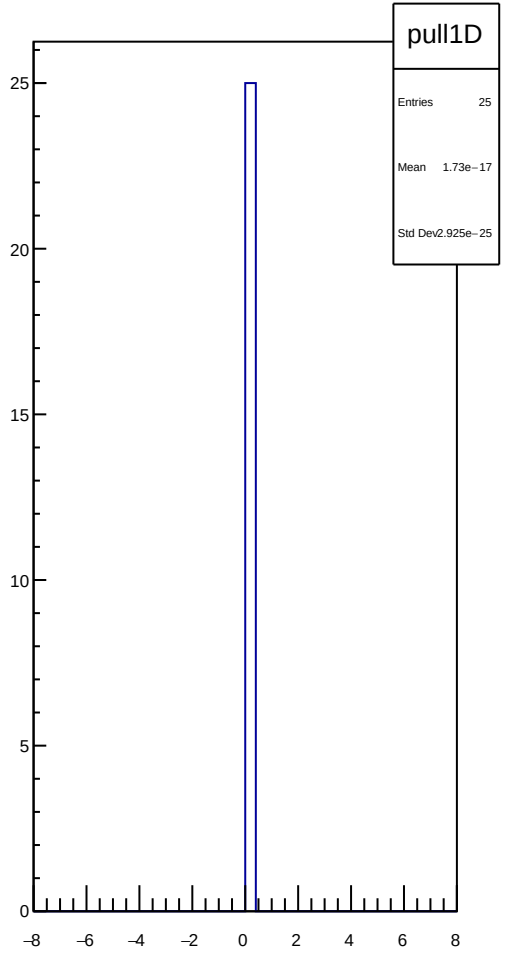

dit_atr2_4eX_slope vs run
χ² / ndf 2.243e−30 / 24
p0 7.667 ± 0.593
11
10
9
8
7
6
5
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
×10⁻¹⁵
0
−0.05
−0.1
−0.15
−0.2
−0.25
−0.3
pull
Entries 25
Mean 12.5
Std Dev 7.211

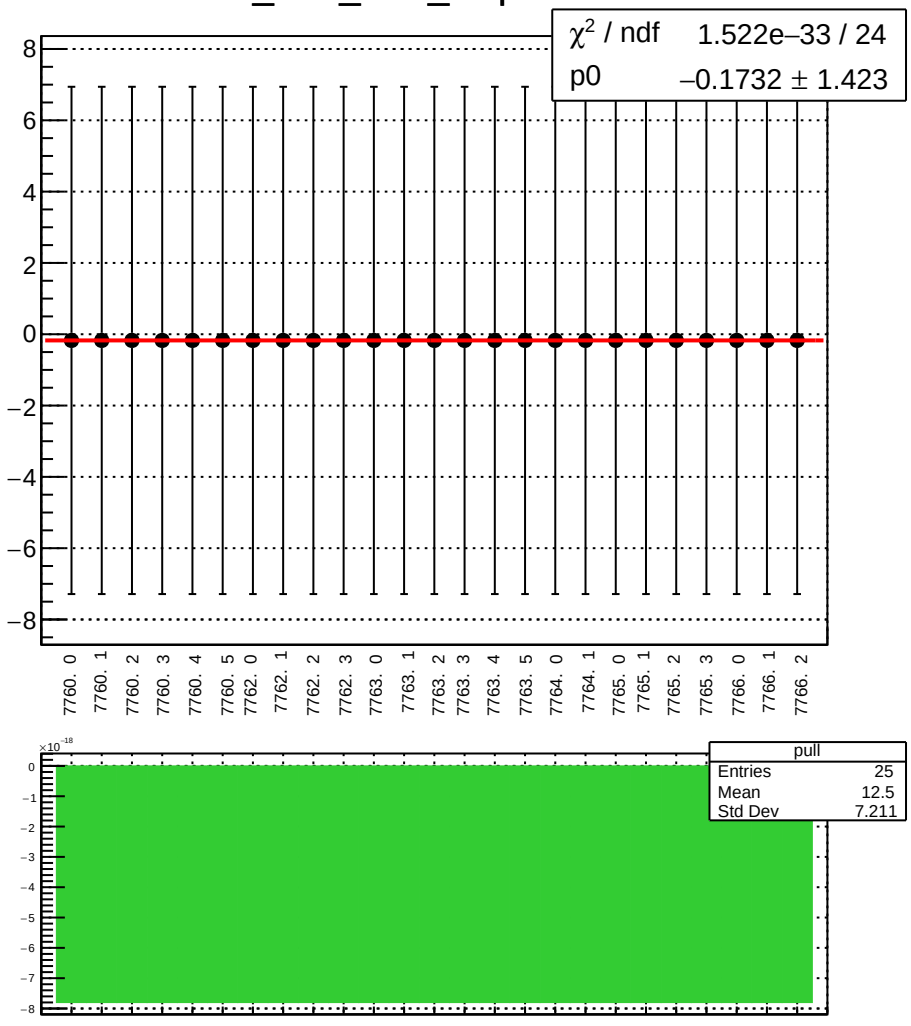

pull1D
Entries 25
Mean −2.996e−16
Std Dev 9.358e−24
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

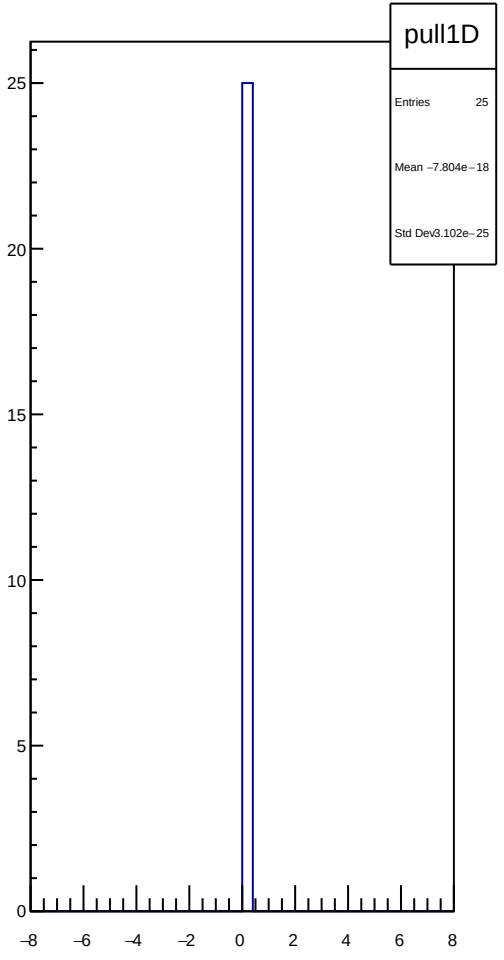

dit_atr2_11X12X_slope vs run
χ² / ndf 1.321e−29 / 24
p0 −1.375 ± 0.2443
0
−0.5
−1
−1.5
−2
−2.5
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
×10⁻¹⁵
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
pull
Entries 25
Mean 12.5
Std Dev 7.211

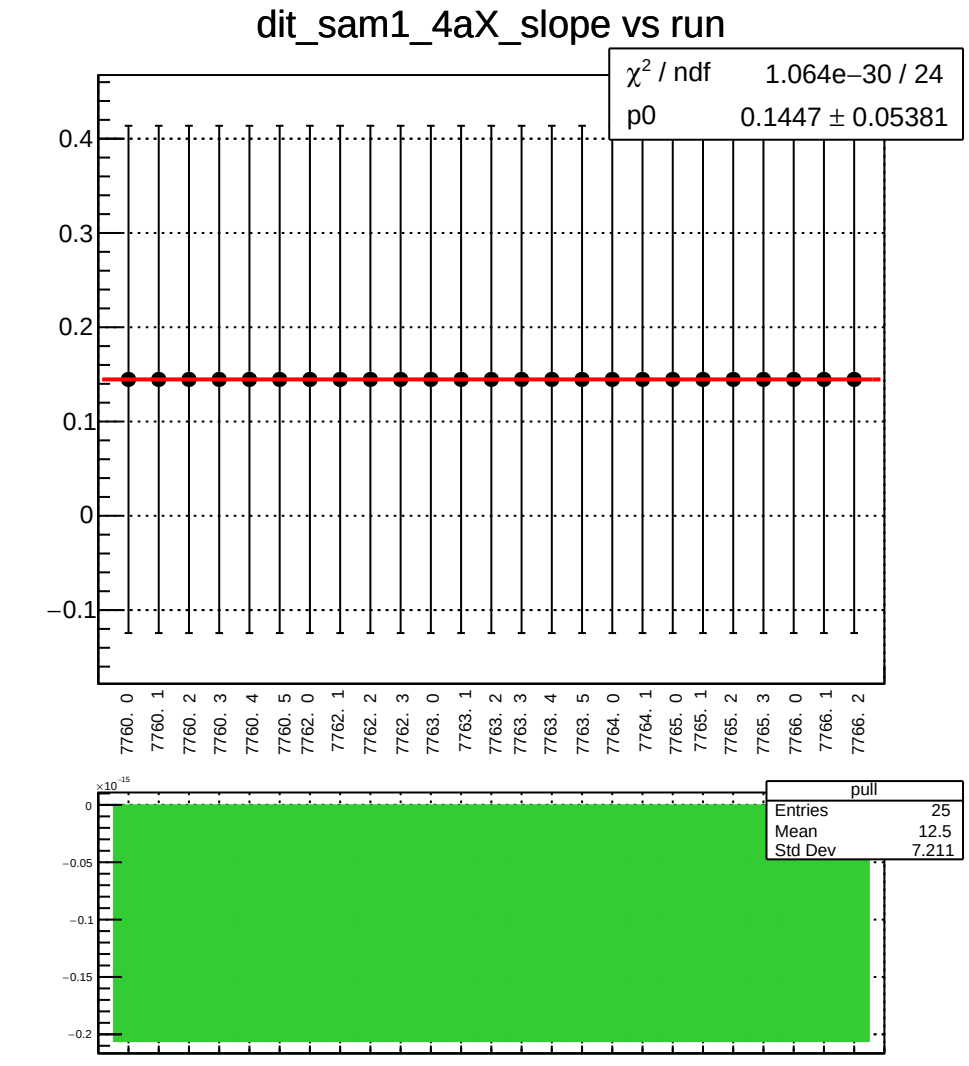

pull1D
Entries 25
Mean 7.27e−16
Std Dev1.872e−23
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

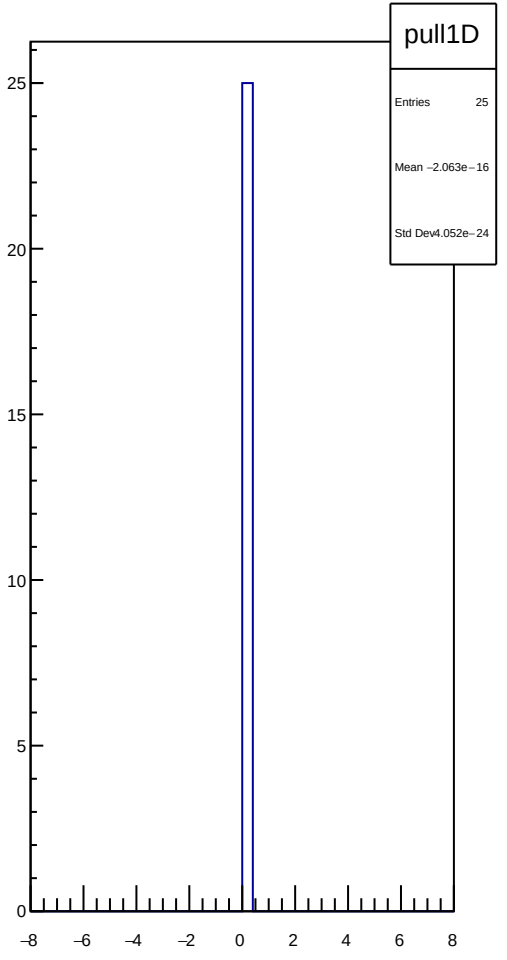

dit_atr2_4aY_slope vs run
χ² / ndf 7.48e−33 / 24
p0 −0.1476 ± 1.284
6
4
2
0
−2
−4
−6
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
×10⁻¹⁸
18
16
14
12
10
8
6
4
2
0
pull
Entries 25
Mean 12.5
Std Dev 7.211

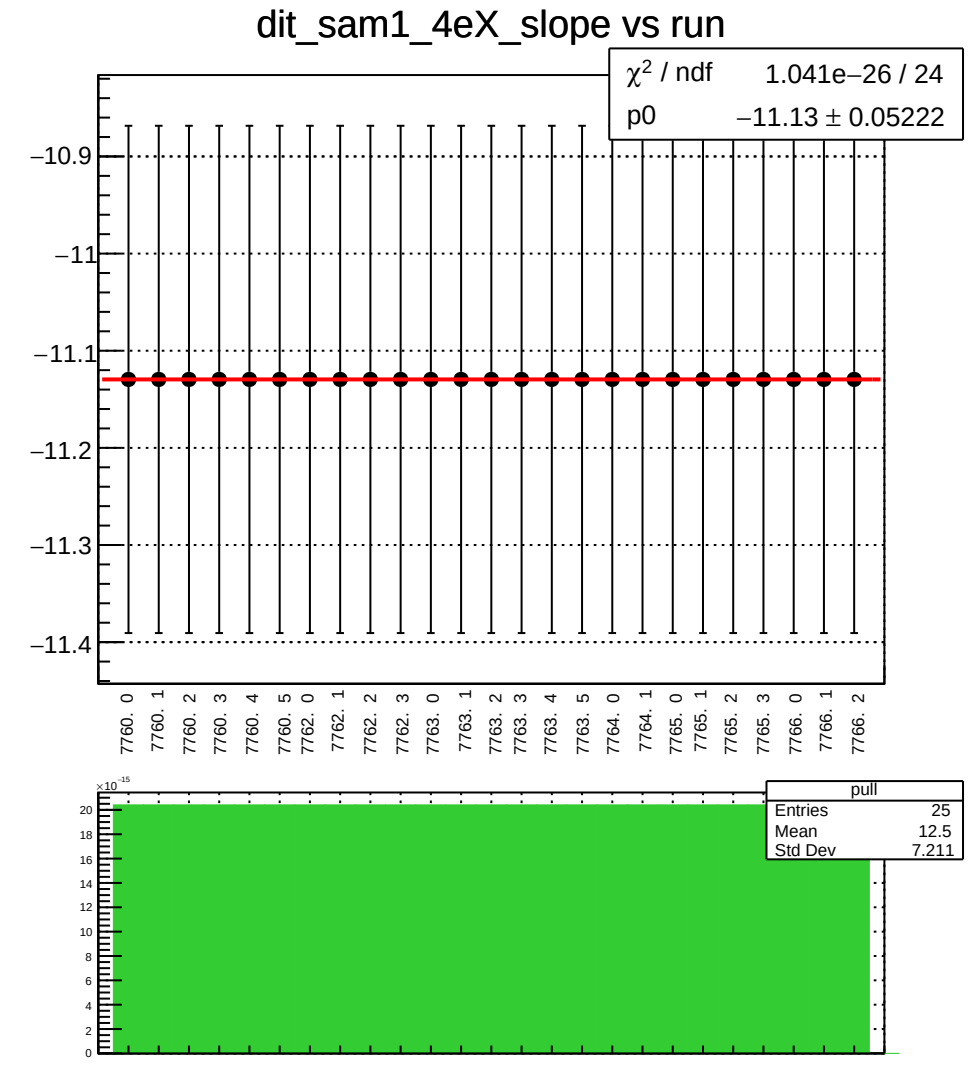

pull1D
Entries 25
Mean 1.73e−17
Std Dev 2.925e−25
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

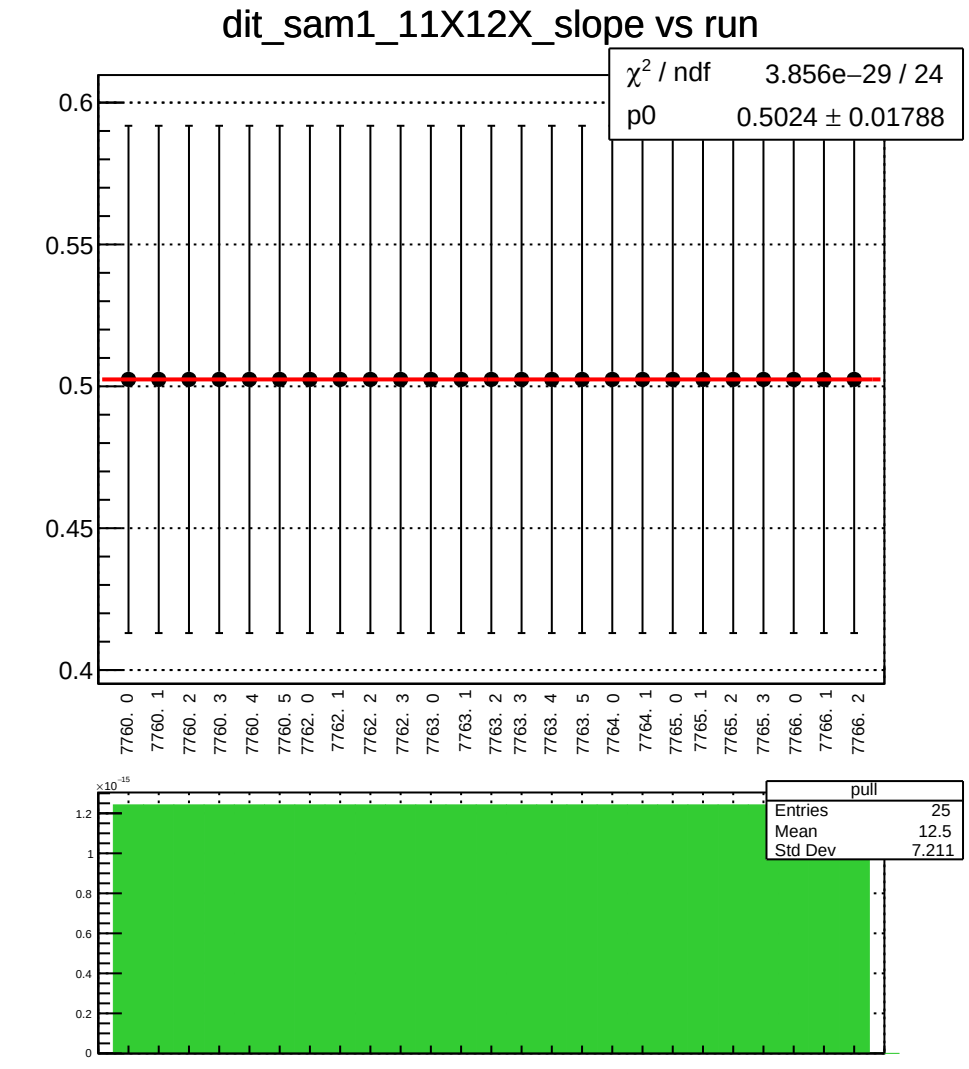

dit_atr2_4eY_slope vs run
χ² / ndf 1.522e−33 / 24
p0 −0.1732 ± 1.423
8
6
4
2
0
−2
−4
−6
−8
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
×10⁻¹⁸
pull
Entries 25
Mean 12.5
Std Dev 7.211

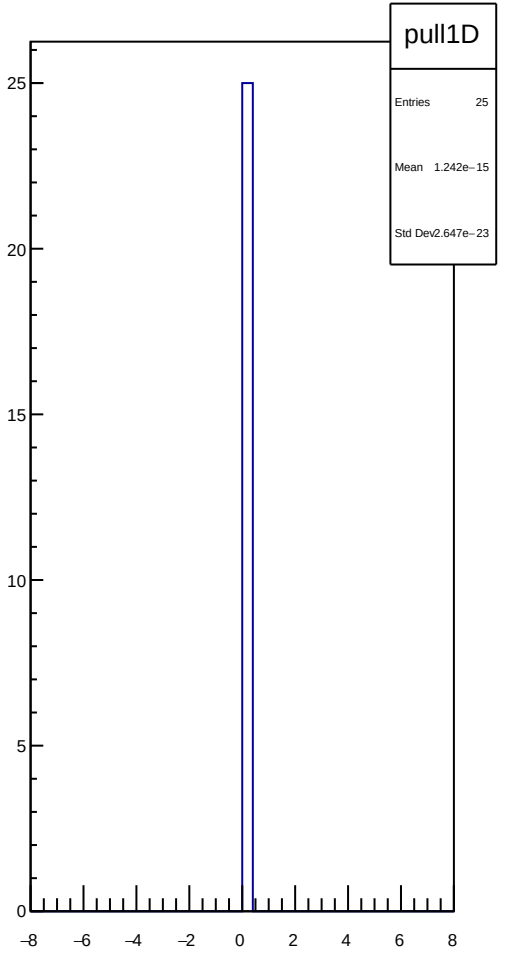

pull1D
Entries 25
Mean −7.804e−18
Std Dev3.102e−25
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

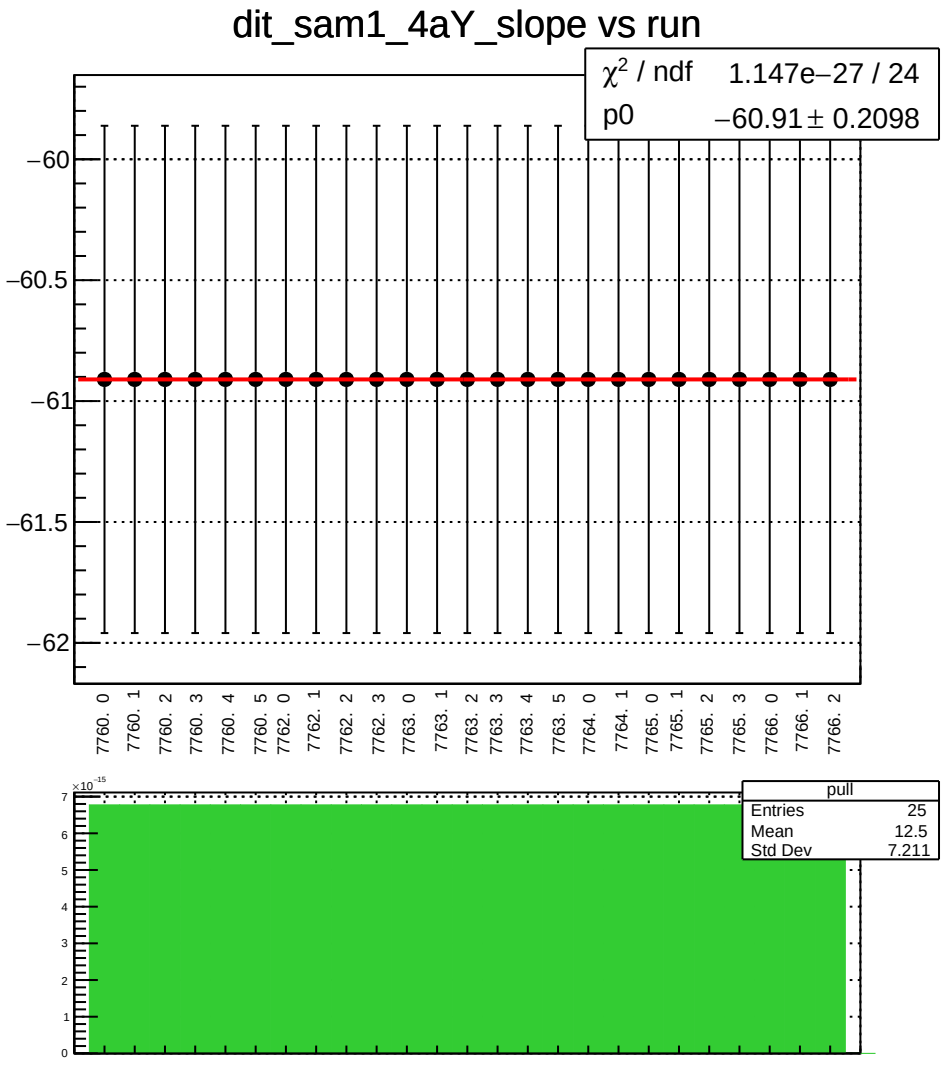

dit_sam1_4aX_slope vs run
χ² / ndf 1.064e−30 / 24
p0 0.1447 ± 0.05381
0.4
0.3
0.2
0.1
0
−0.1
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
×10⁻¹⁵
0
−0.05
−0.1
−0.15
−0.2
pull
Entries 25
Mean 12.5
Std Dev 7.211

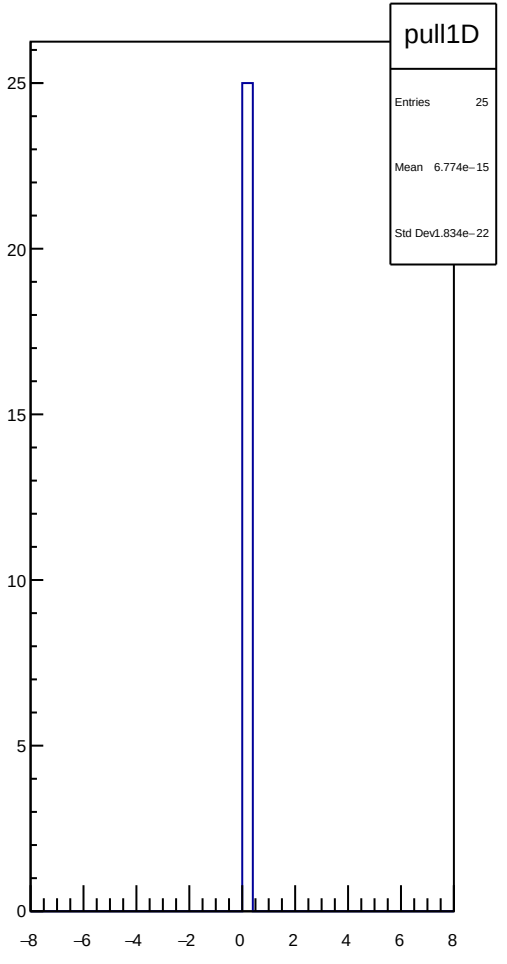

pull1D
Entries 25
Mean −2.063e−16
Std Dev4.052e−24
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

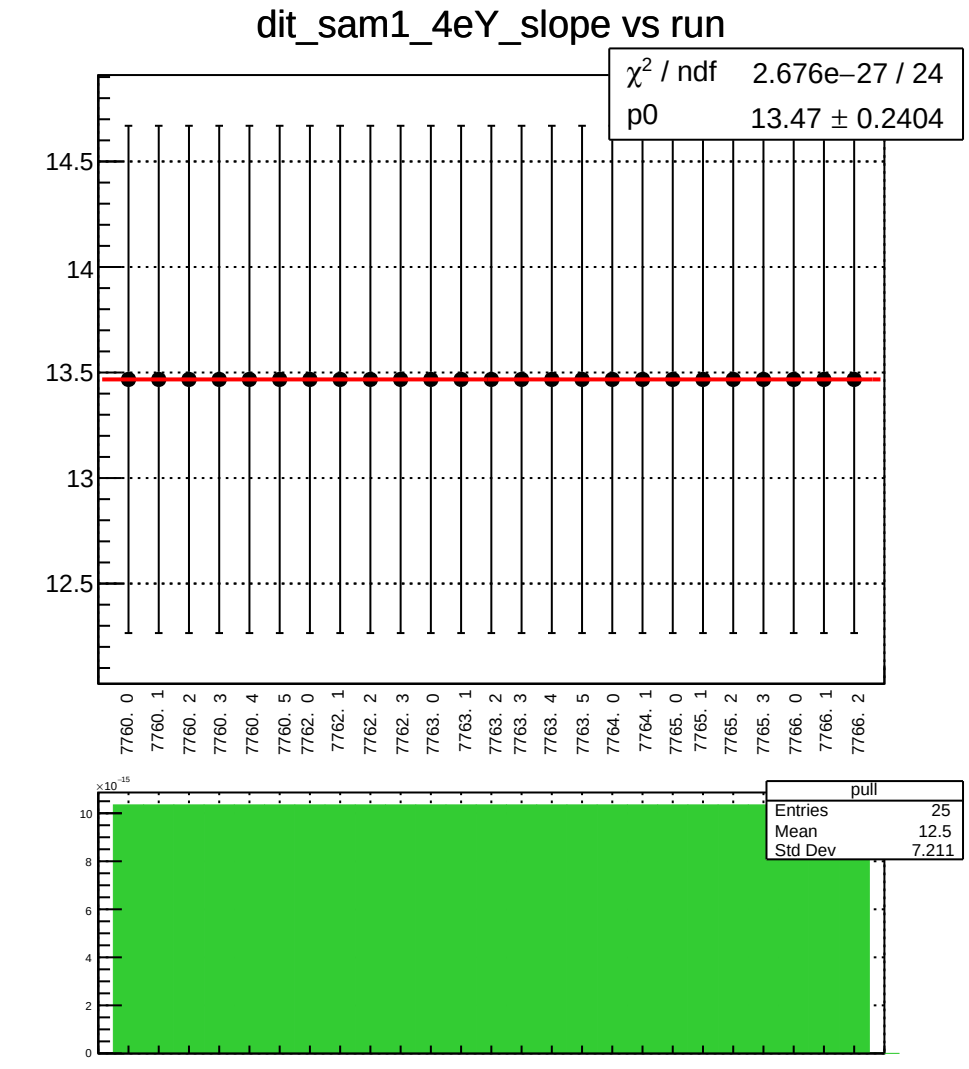

dit_sam1_4eX_slope vs run
χ² / ndf 1.041e−26 / 24
p0 −11.13 ± 0.05222
−10.9
−11
−11.1
−11.2
−11.3
−11.4
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
×10⁻¹⁵
pull
Entries 25
Mean 12.5
Std Dev 7.211
pull1D
Entries 25
Mean 2.041e−14
Std Dev 5.989e−22

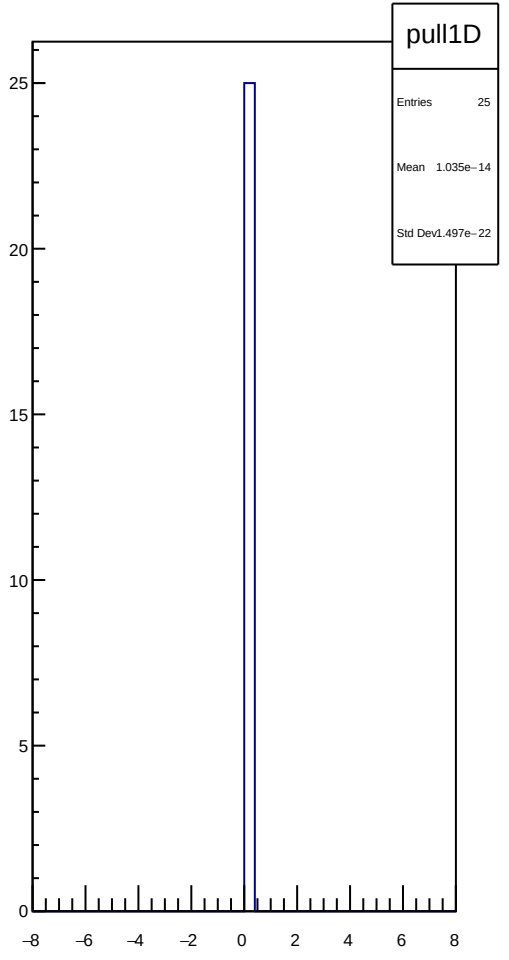

dit_sam1_11X12X_slope vs run
χ² / ndf 3.856e−29 / 24
p0 0.5024 ± 0.01788
0.6
0.55
0.5
0.45
0.4
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
×10⁻¹⁵
1.2
1
0.8
0.6
0.4
0.2
0
pull
Entries 25
Mean 12.5
Std Dev 7.211

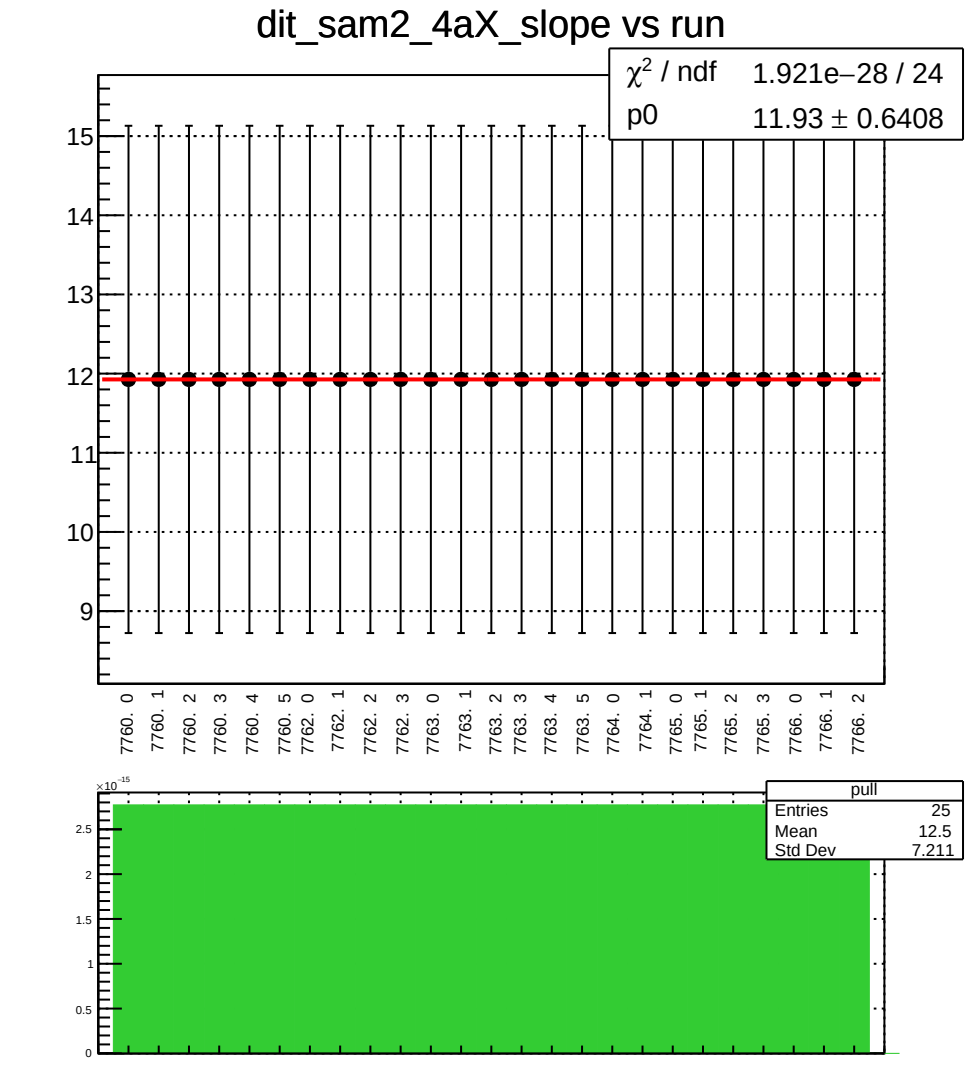

pull1D
Entries 25
Mean 1.242e−15
Std Dev2.647e−23
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

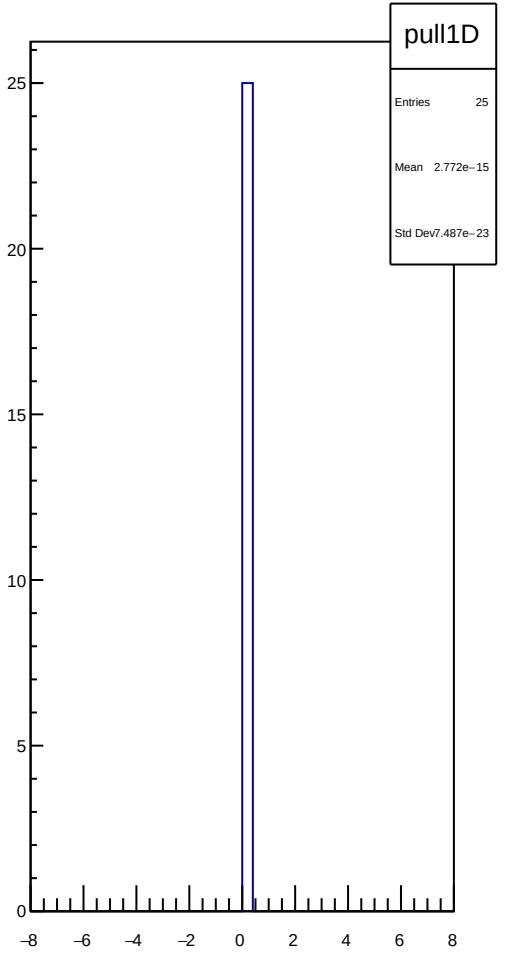

dit_sam1_4aY_slope vs run
χ² / ndf 1.147e−27 / 24
p0 −60.91 ± 0.2098
−60
−60.5
−61
−61.5
−62
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
×10⁻¹⁵
pull
Entries 25
Mean 12.5
Std Dev 7.211

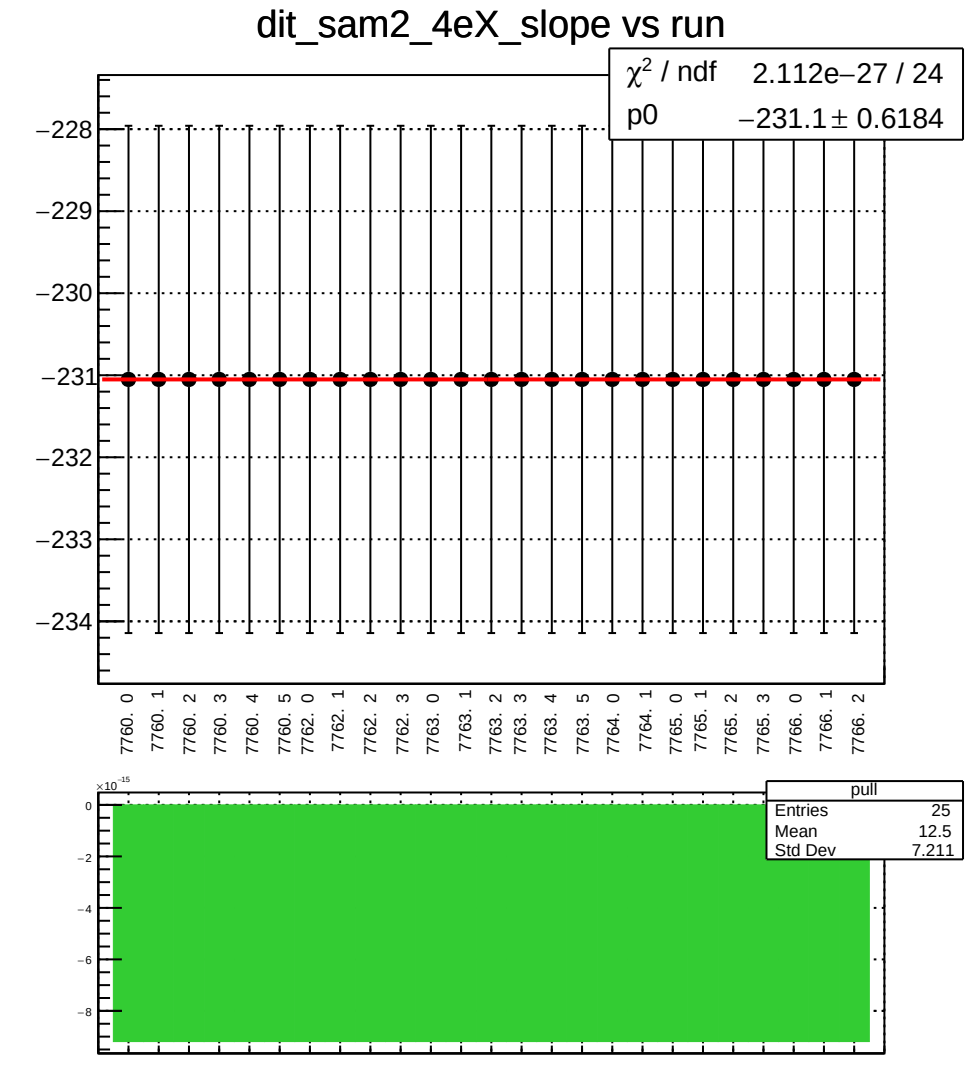

pull1D
Entries 25
Mean 6.774e−15
Std Dev1.834e−22

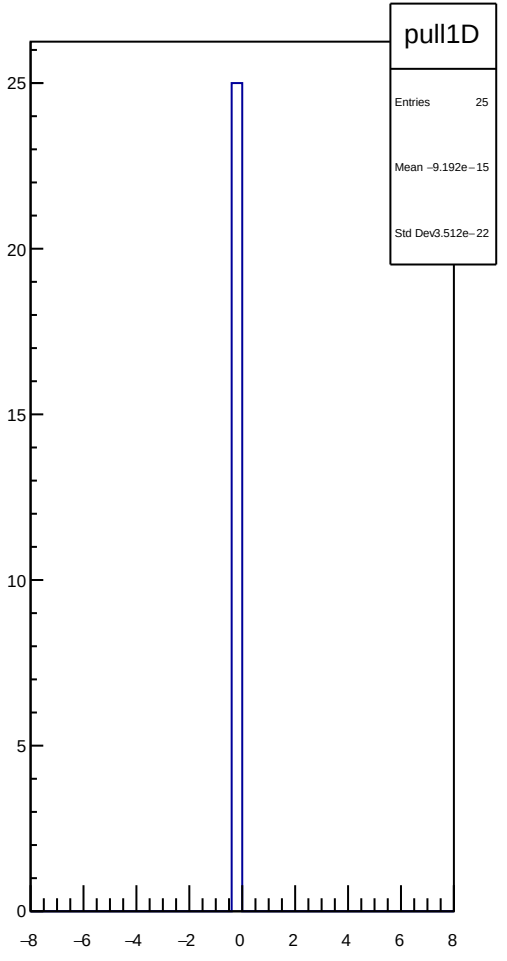

dit_sam1_4eY_slope vs run
χ² / ndf 2.676e−27 / 24
p0 13.47 ± 0.2404
14.5
14
13.5
13
12.5
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
×10⁻¹⁵
10
8
6
4
2
0
pull
Entries 25
Mean 12.5
Std Dev 7.211

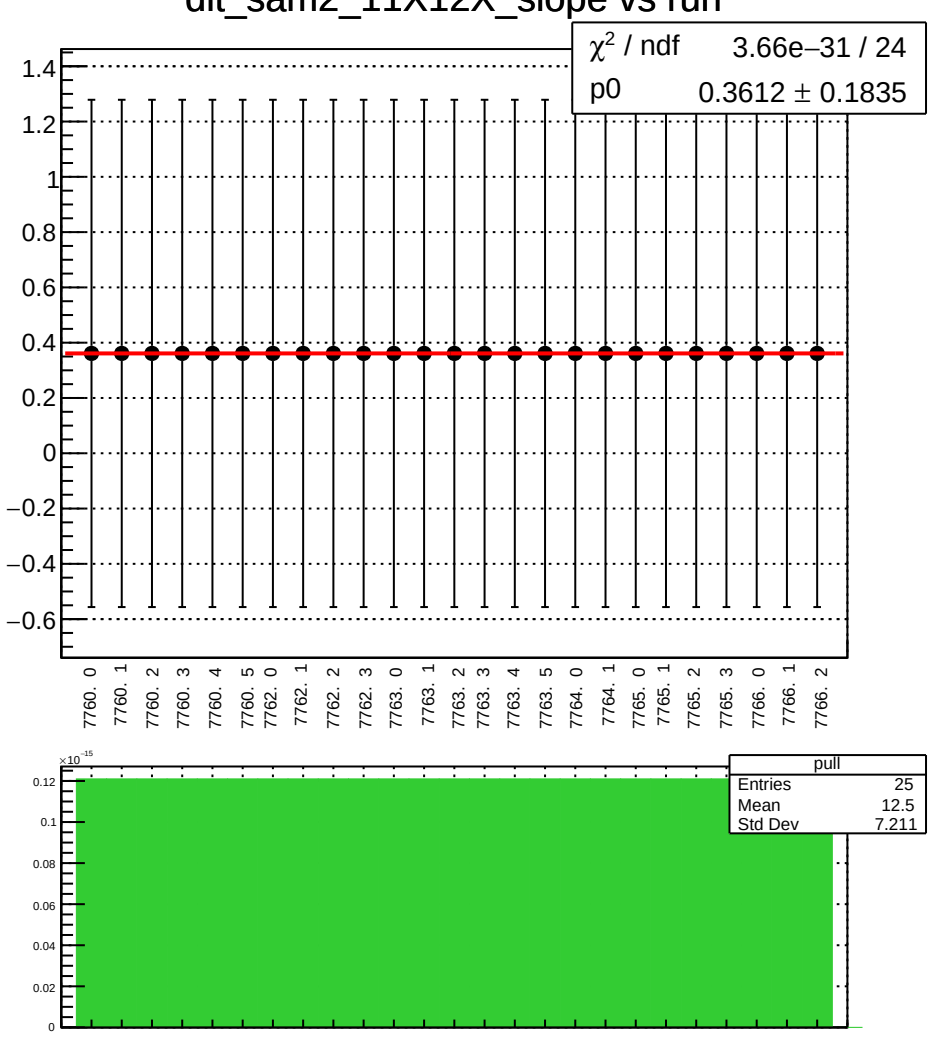

pull1D
Entries 25
Mean 1.035e−14
Std Dev1.497e−22
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

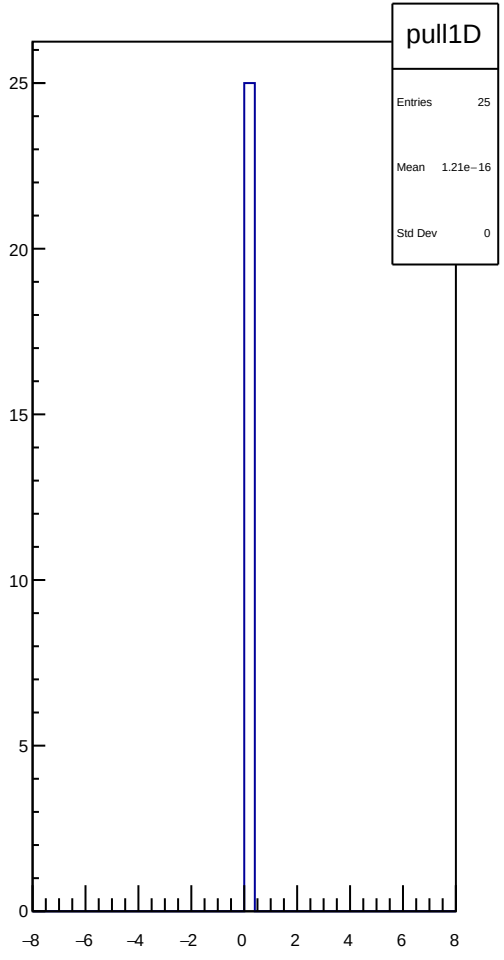

dit_sam2_4aX_slope vs run
χ² / ndf 1.921e−28 / 24
p0 11.93 ± 0.6408
15
14
13
12
11
10
9
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
×10⁻¹⁵
2.5
2
1.5
1
0.5
0
pull
Entries 25
Mean 12.5
Std Dev 7.211

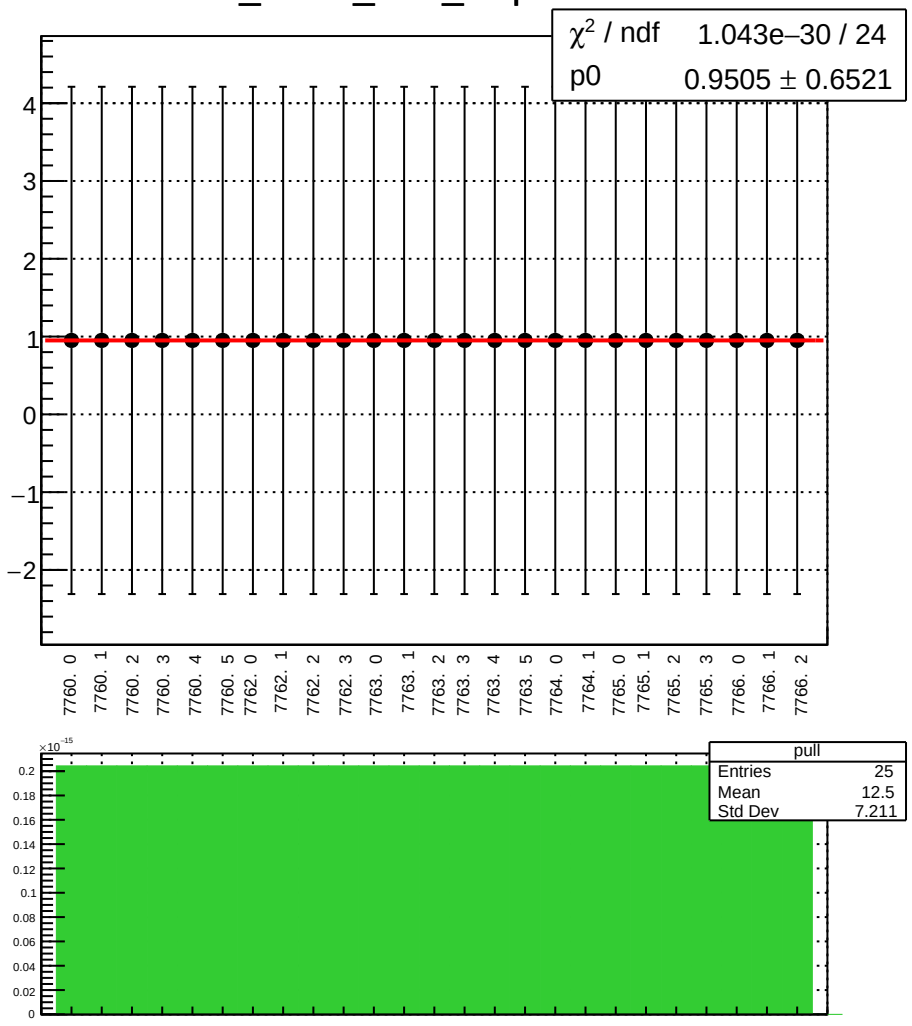

pull1D
Entries 25
Mean 2.772e−15
Std Dev7.487e−23
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

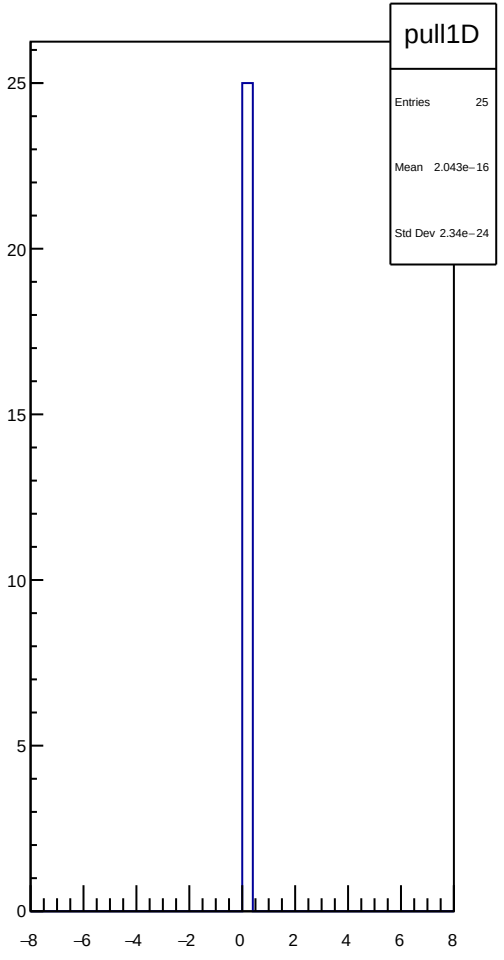

dit_sam2_4eX_slope vs run
χ² / ndf 2.112e−27 / 24
p0 −231.1 ± 0.6184
−228
−229
−230
−231
−232
−233
−234
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
×10⁻¹⁵
0
−2
−4
−6
−8
pull
Entries 25
Mean 12.5
Std Dev 7.211

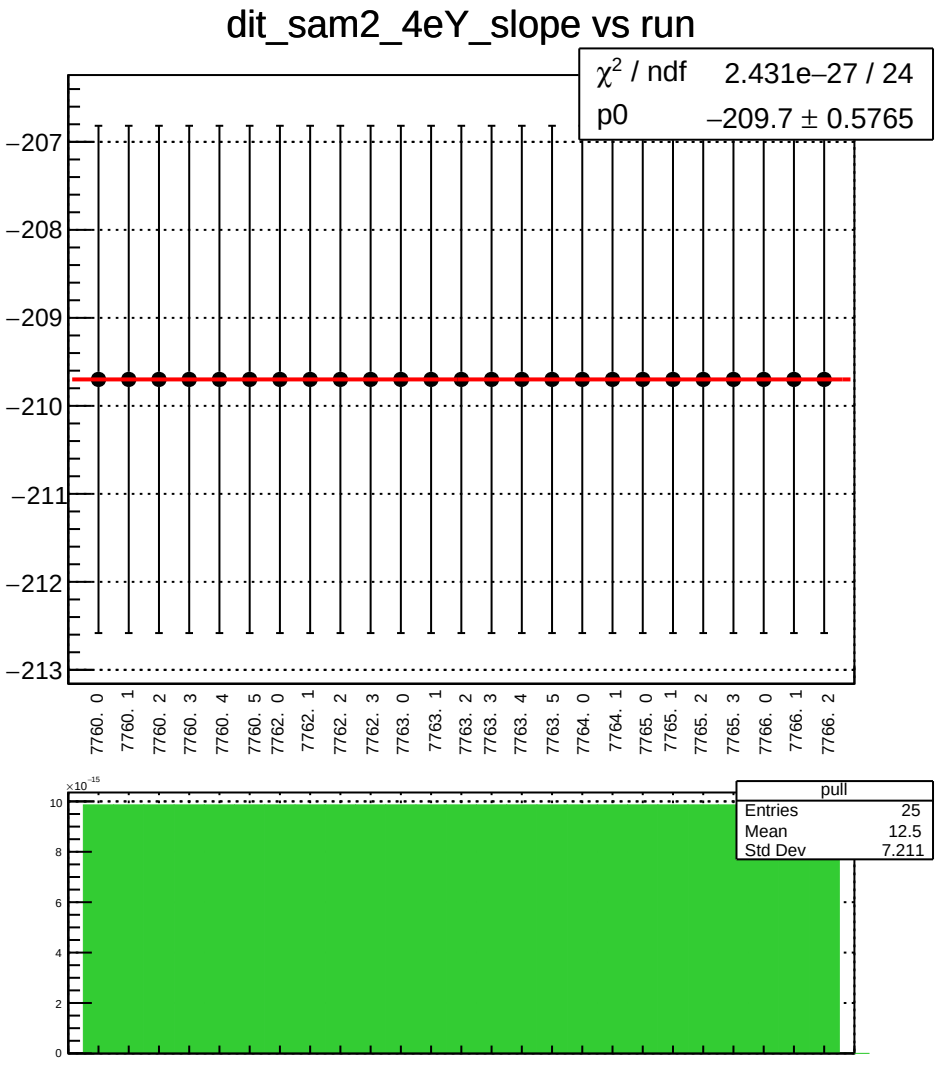

pull1D
Entries 25
Mean −9.192e−15
Std Dev3.512e−22
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

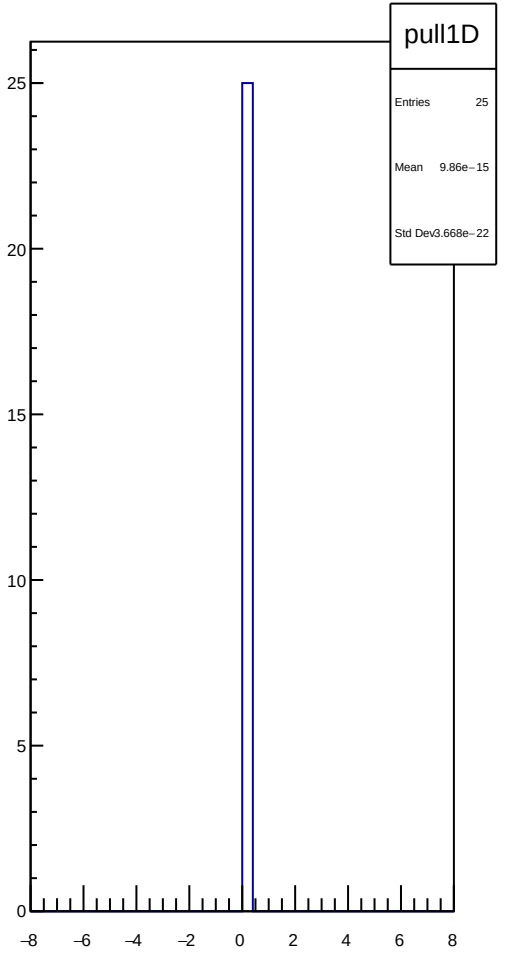

dit_sam2_11X12X_slope vs run
χ² / ndf 3.66e−31 / 24
p0 0.3612 ± 0.1835
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
×10⁻¹⁵
0.12
0.1
0.08
0.06
0.04
0.02
0
pull
Entries 25
Mean 12.5
Std Dev 7.211

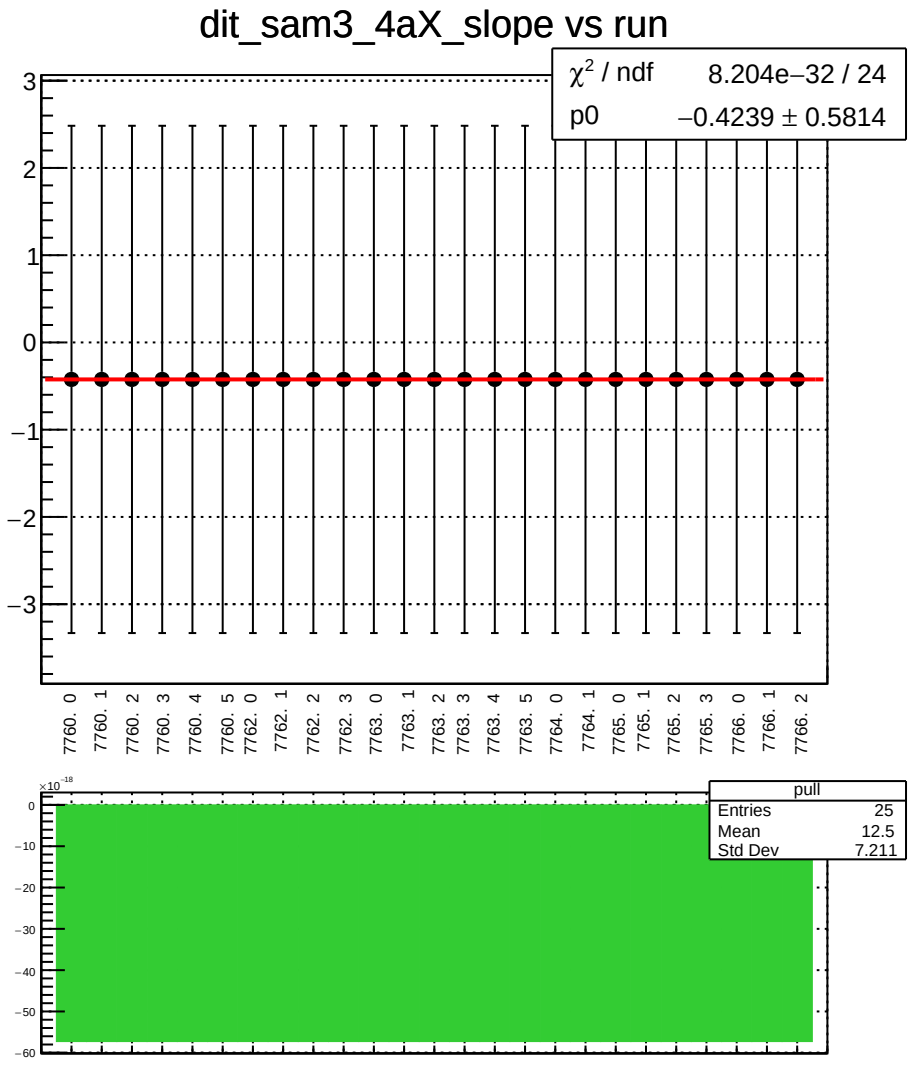

pull1D
Entries 25
Mean 1.21e−16
Std Dev 0
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

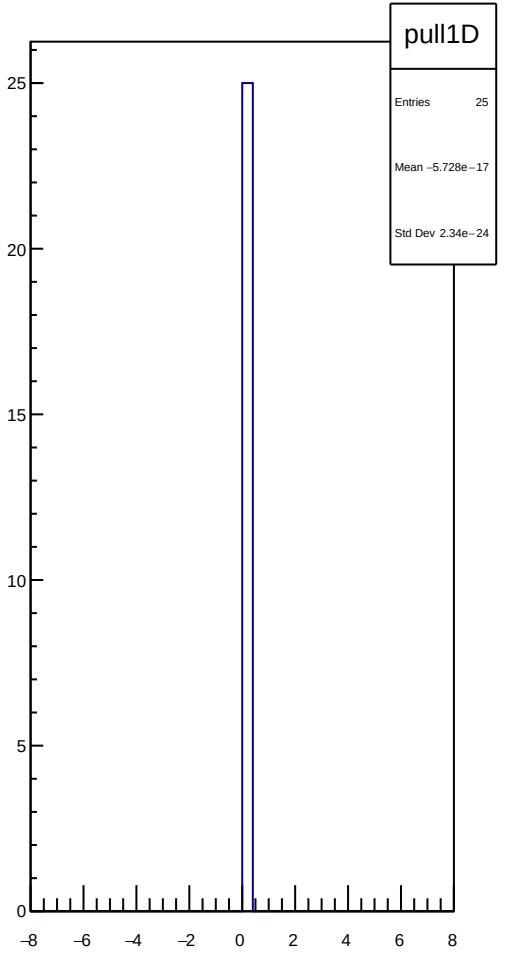

dit_sam2_4aY_slope vs run
χ² / ndf 1.043e−30 / 24
p0 0.9505 ± 0.6521
4
3
2
1
0
−1
−2
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
×10⁻¹⁵
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
pull
Entries 25
Mean 12.5
Std Dev 7.211

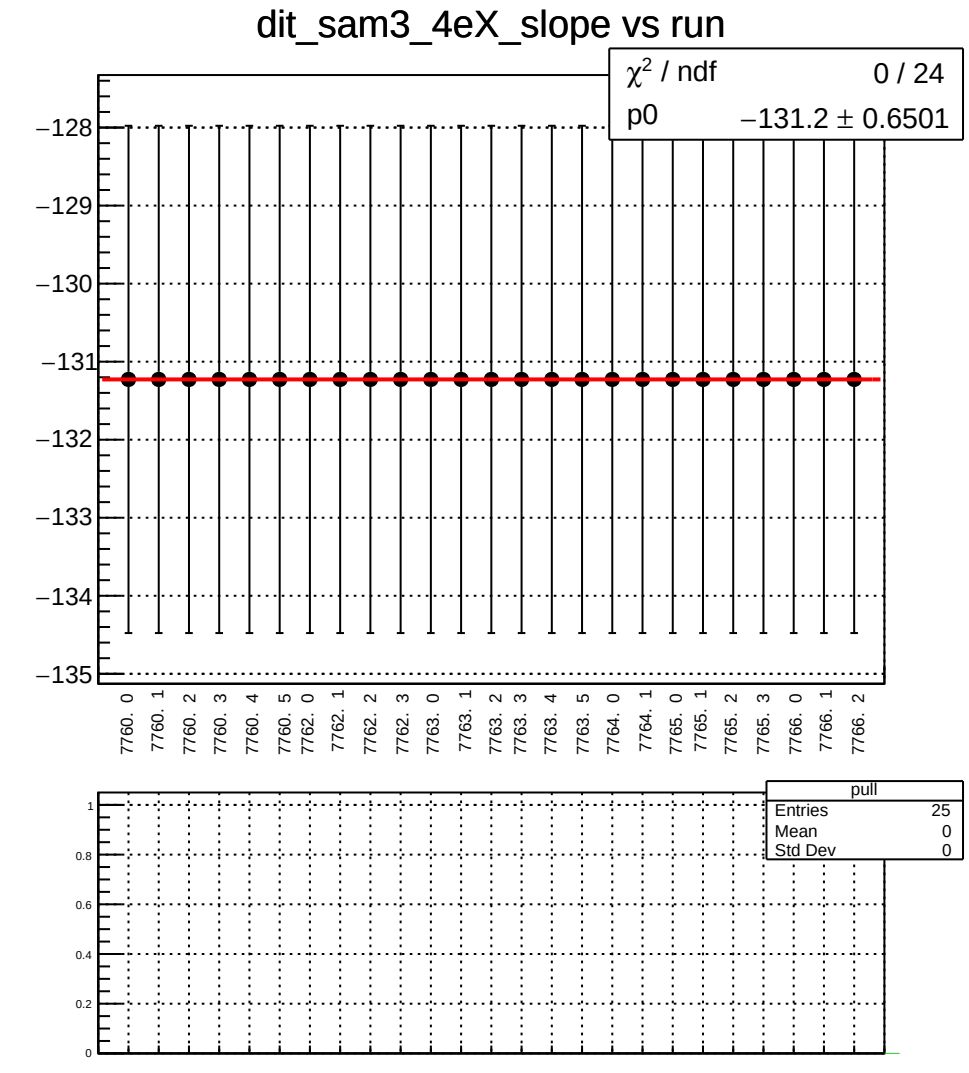

pull1D
Entries 25
Mean 2.043e−16
Std Dev 2.34e−24
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

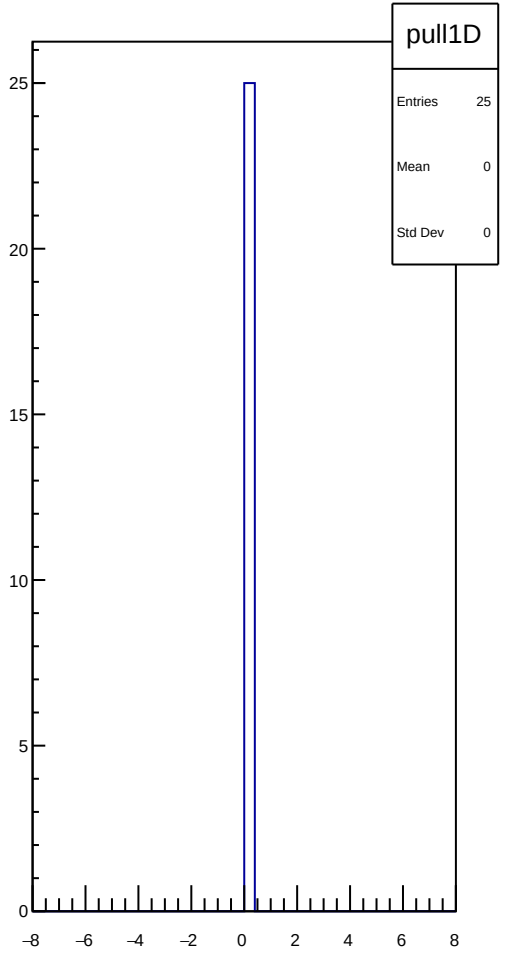

dit_sam2_4eY_slope vs run
χ² / ndf 2.431e−27 / 24
p0 −209.7 ± 0.5765
−207
−208
−209
−210
−211
−212
−213
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
×10⁻¹⁵
10
8
6
4
2
0
pull
Entries 25
Mean 12.5
Std Dev 7.211

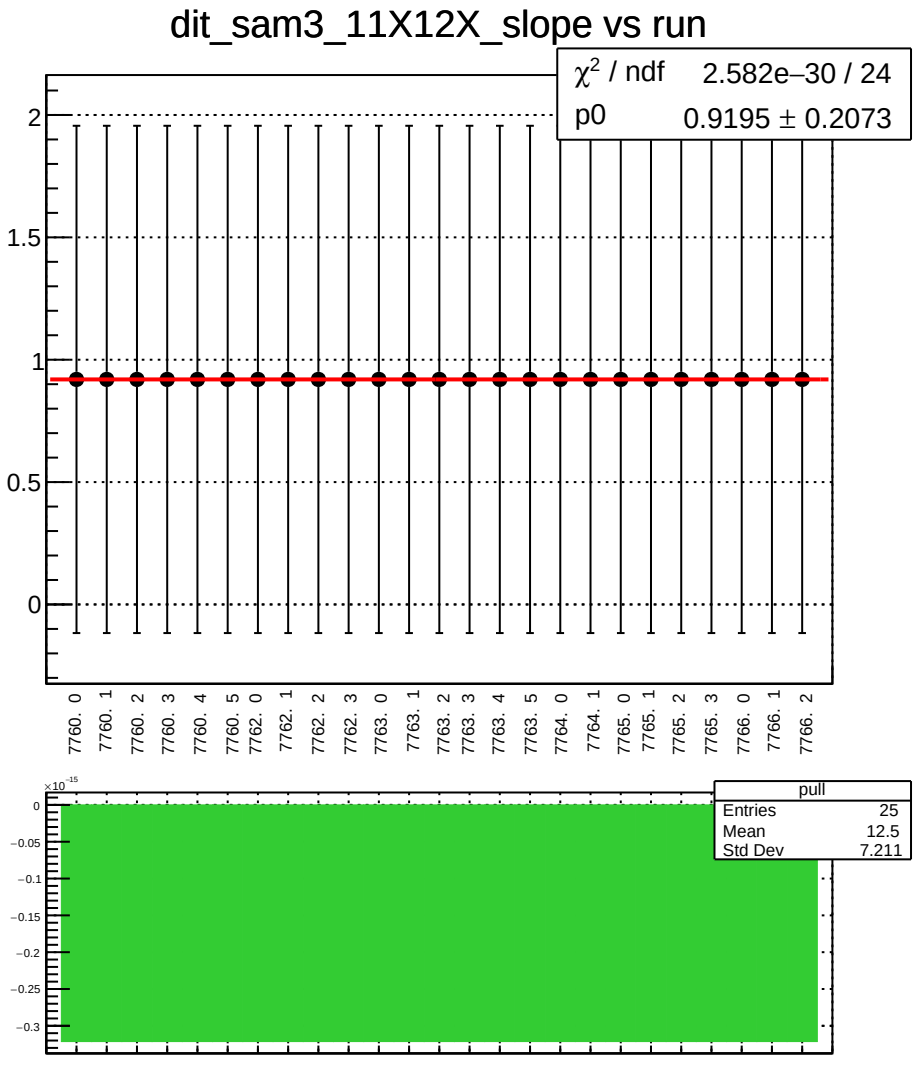

pull1D
Entries 25
Mean 9.86e−15
Std Dev3.668e−22
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

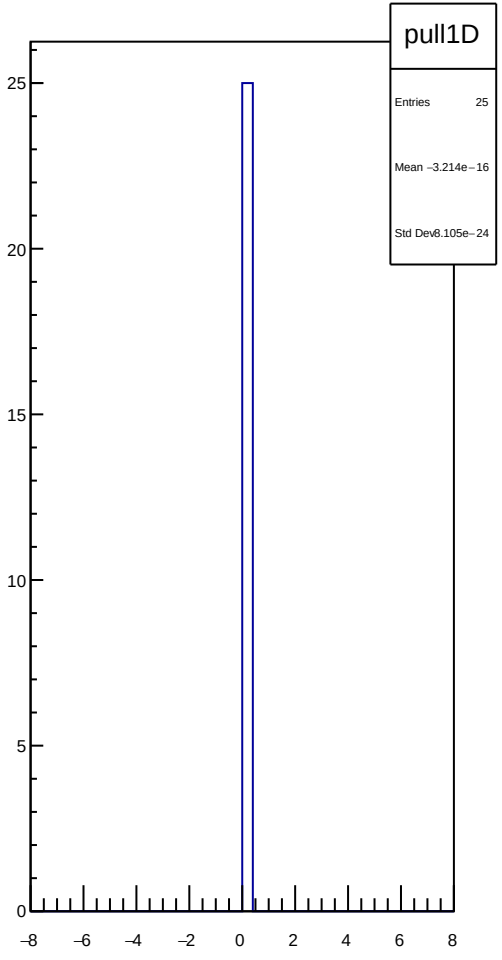

dit_sam3_4aX_slope vs run
χ² / ndf 8.204e−32 / 24
p0 −0.4239 ± 0.5814
3
2
1
0
−1
−2
−3
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
×10⁻¹⁸
0
−10
−20
−30
−40
−50
−60
pull
Entries 25
Mean 12.5
Std Dev 7.211

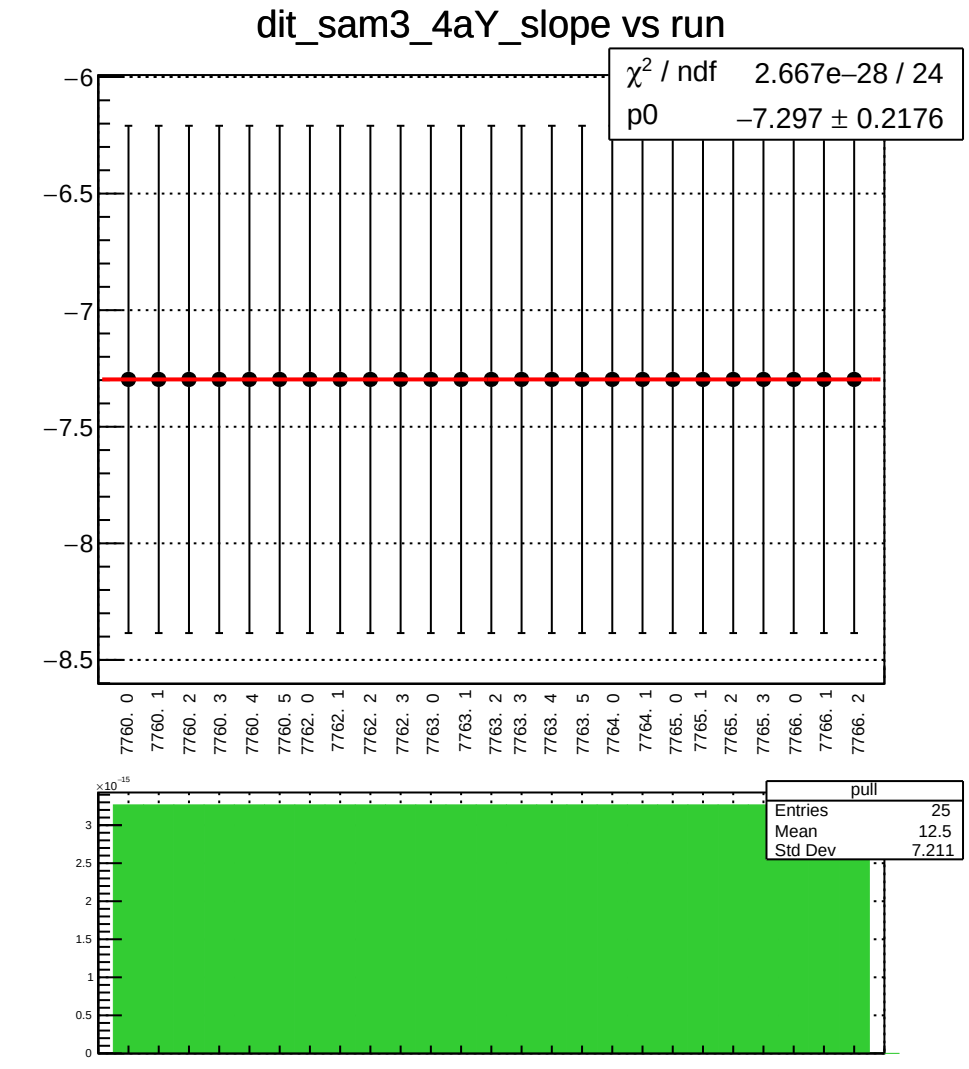

pull1D
Entries 25
Mean −5.728e−17
Std Dev 2.34e−24
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

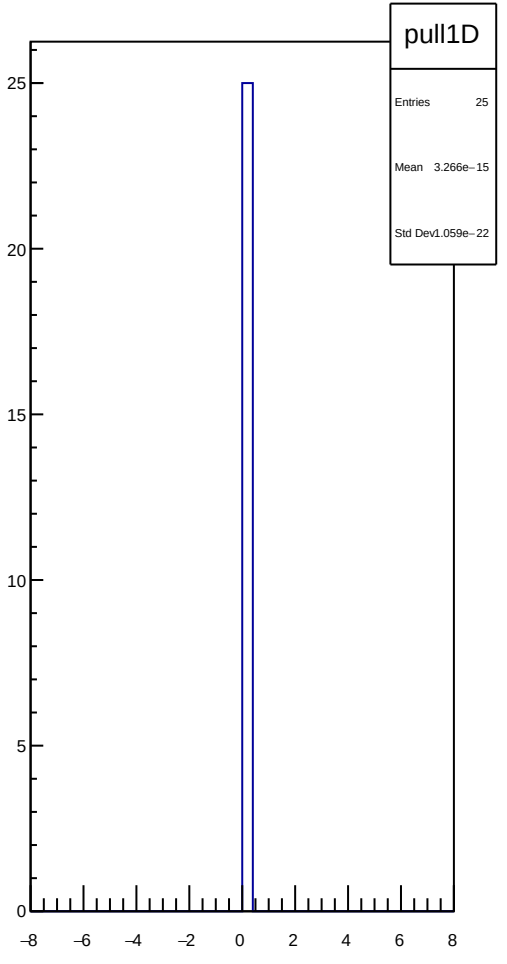

dit_sam3_4eX_slope vs run
χ² / ndf 0 / 24
p0 −131.2 ± 0.6501
−128
−129
−130
−131
−132
−133
−134
−135
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

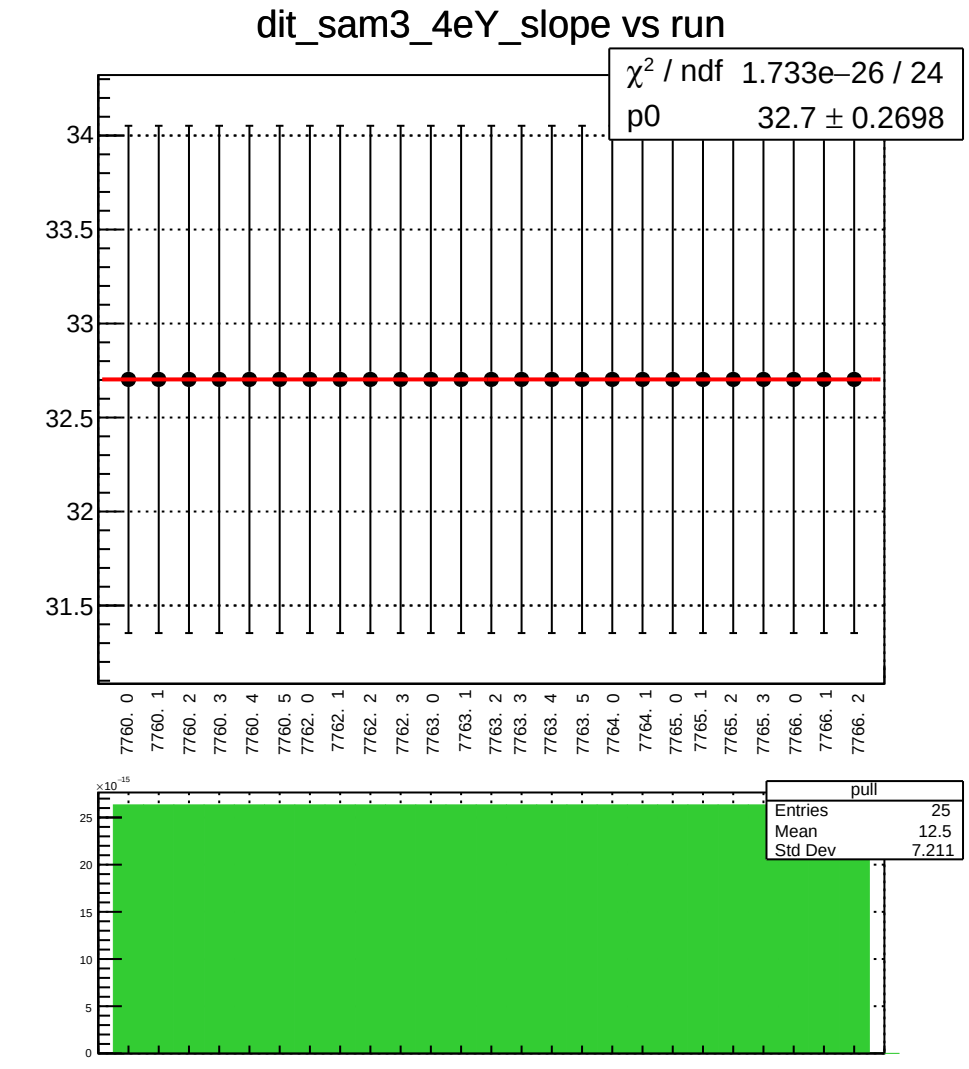

pull1D
Entries 25
Mean 0
Std Dev 0
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

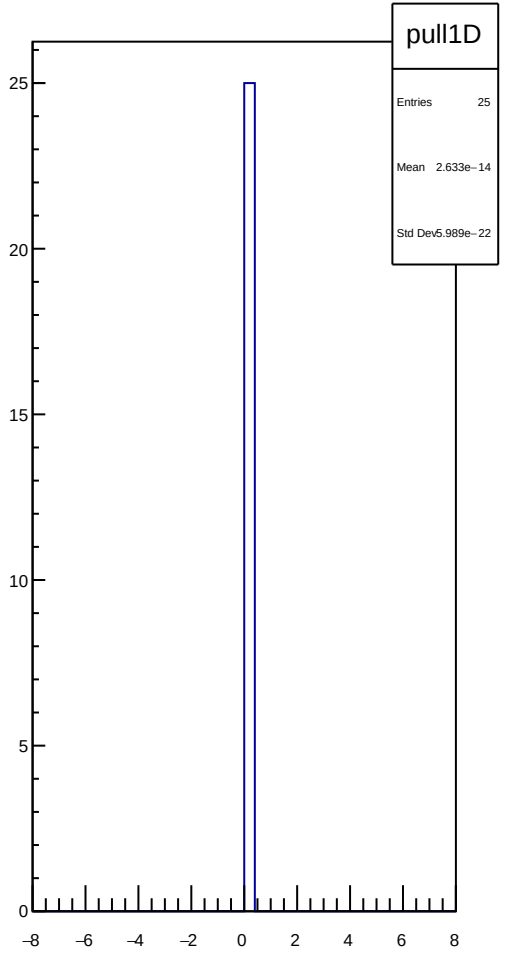

dit_sam3_11X12X_slope vs run
χ² / ndf 2.582e−30 / 24
p0 0.9195 ± 0.2073
2
1.5
1
0.5
0
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
×10⁻¹⁵
0
−0.05
−0.1
−0.15
−0.2
−0.25
−0.3
pull
Entries 25
Mean 12.5
Std Dev 7.211

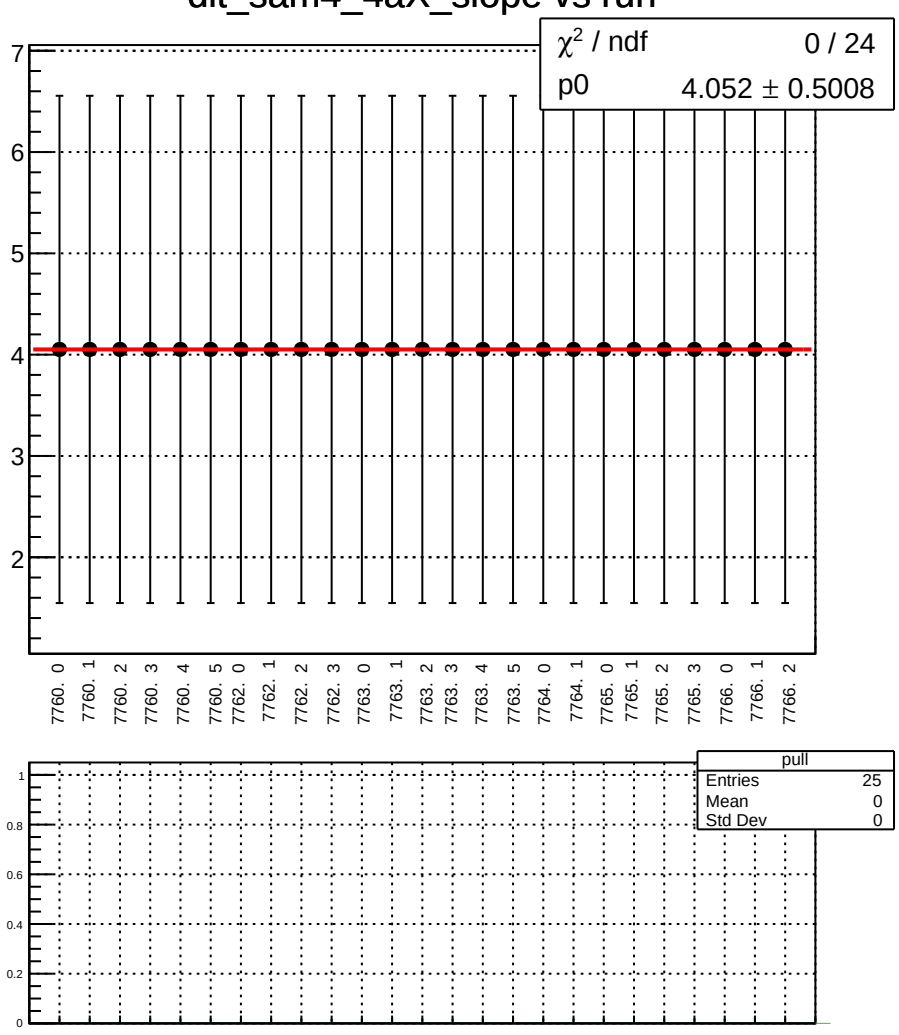

pull1D
Entries 25
Mean −3.214e−16
Std Dev 8.105e−24
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

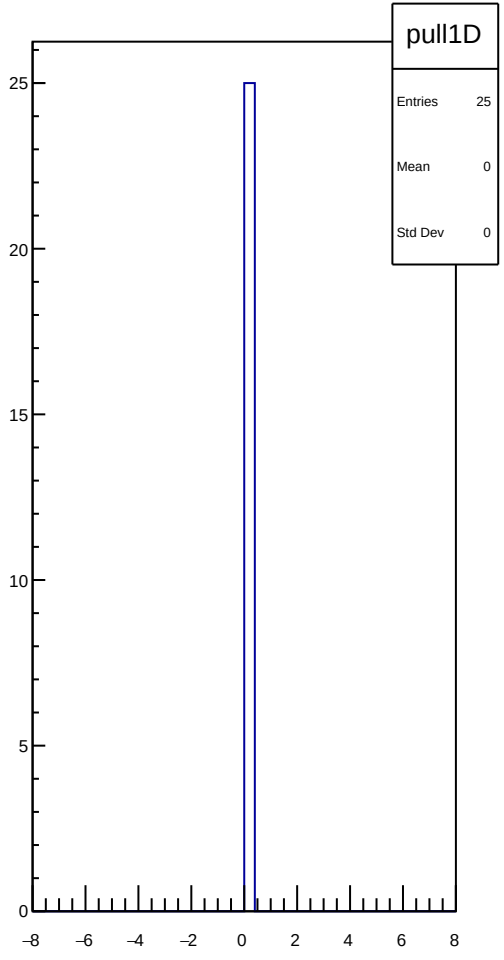

dit_sam3_4aY_slope vs run
χ² / ndf 2.667e−28 / 24
p0 −7.297 ± 0.2176
−6
−6.5
−7
−7.5
−8
−8.5
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
×10⁻¹⁵
3
2.5
2
1.5
1
0.5
0
pull
Entries 25
Mean 12.5
Std Dev 7.211

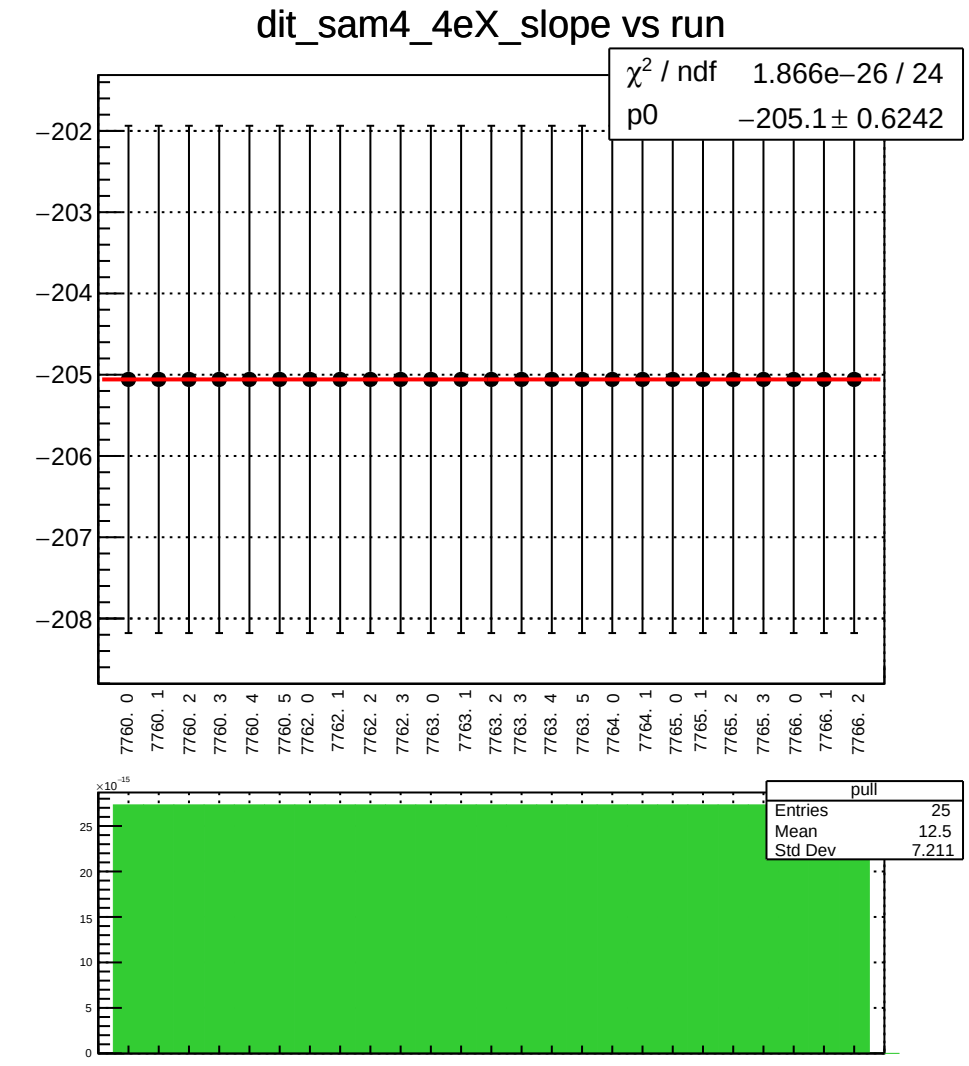

pull1D
Entries 25
Mean 3.266e−15
Std Dev1.059e−22
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

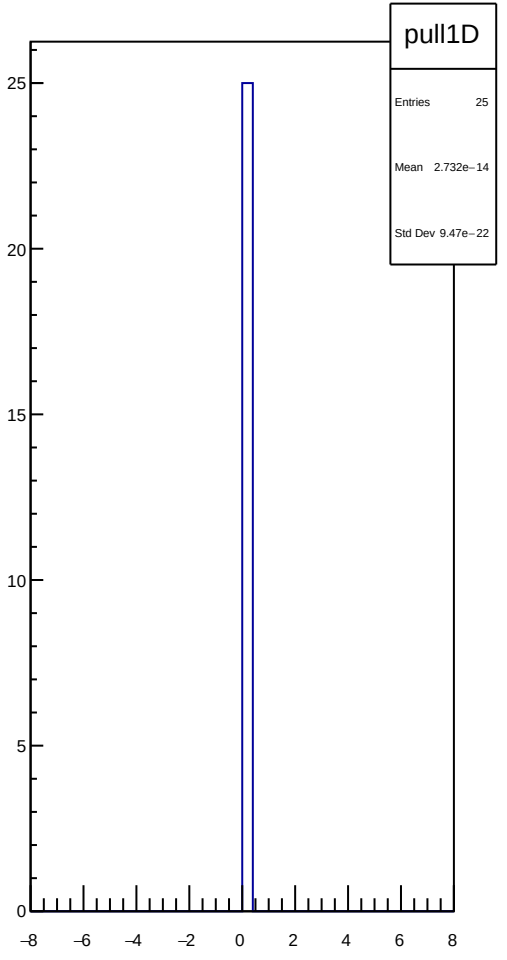

dit_sam3_4eY_slope vs run
χ² / ndf 1.733e−26 / 24
p0 32.7 ± 0.2698
34
33.5
33
32.5
32
31.5
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
×10⁻¹⁵
25
20
15
10
5
0
pull
Entries 25
Mean 12.5
Std Dev 7.211

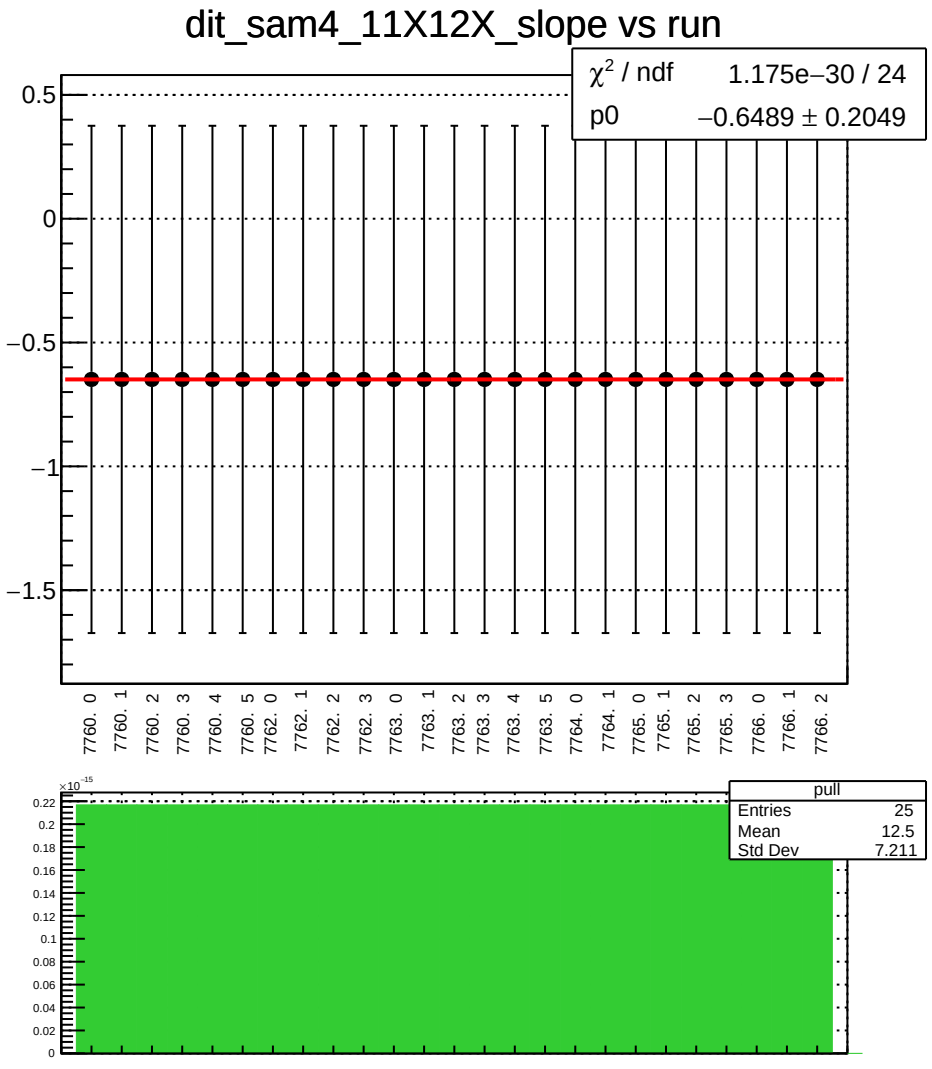

pull1D
Entries 25
Mean 2.633e−14
Std Dev 5.989e−22
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

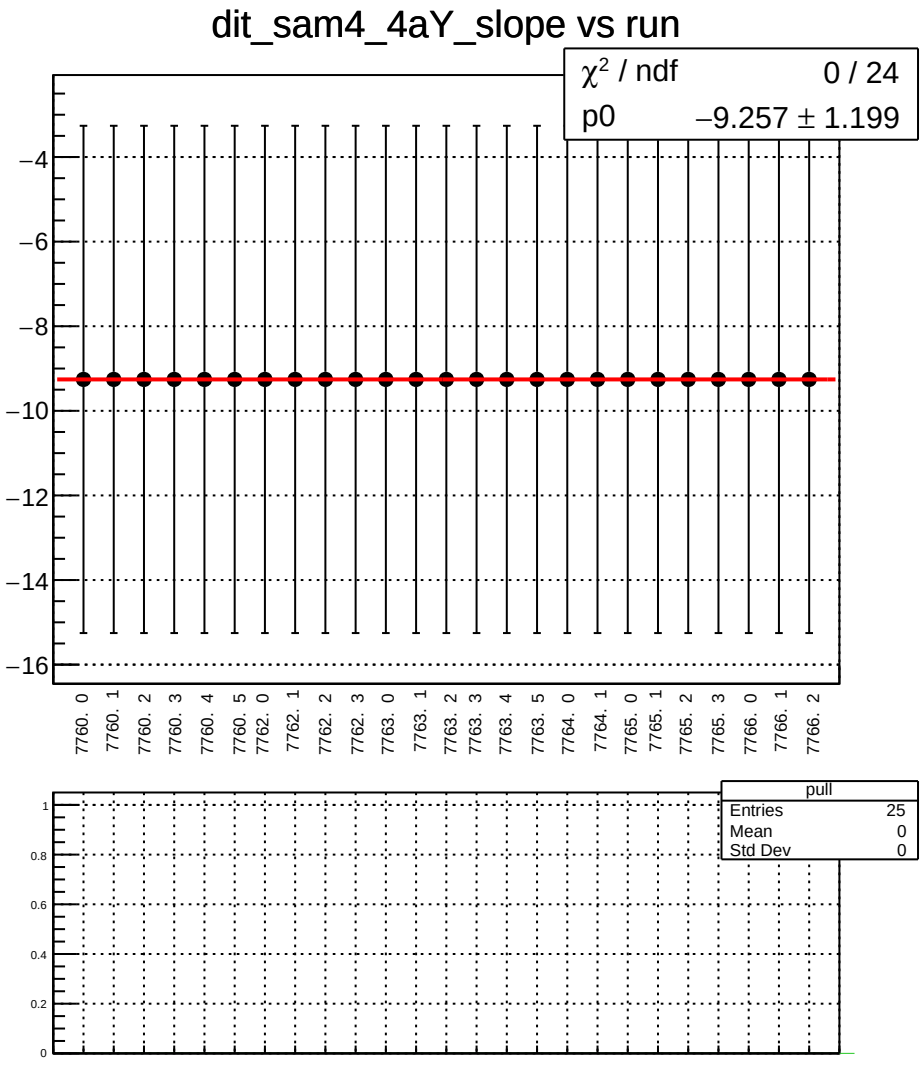

dit_sam4_4aX_slope vs run
χ² / ndf 0 / 24
p0 4.052 ± 0.5008
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 0
Std Dev 0

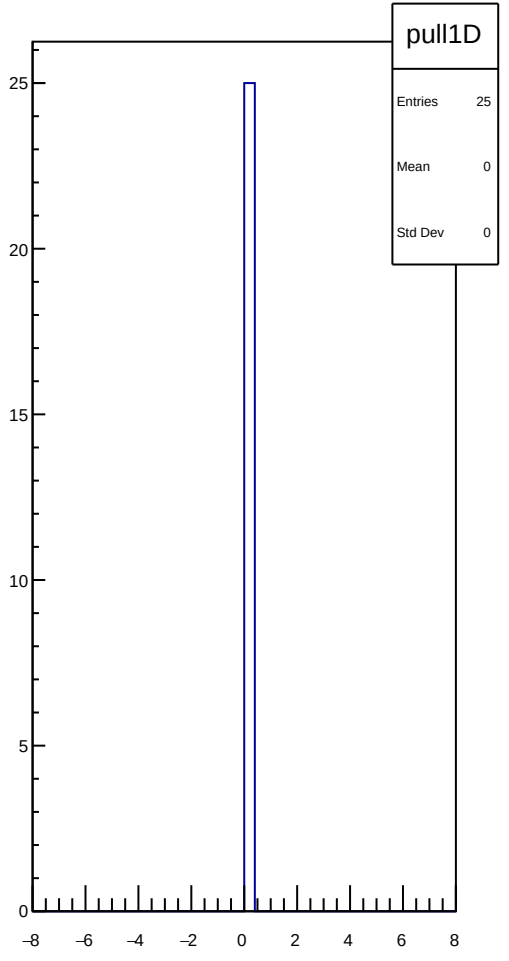

pull1D
Entries 25
Mean 0
Std Dev 0

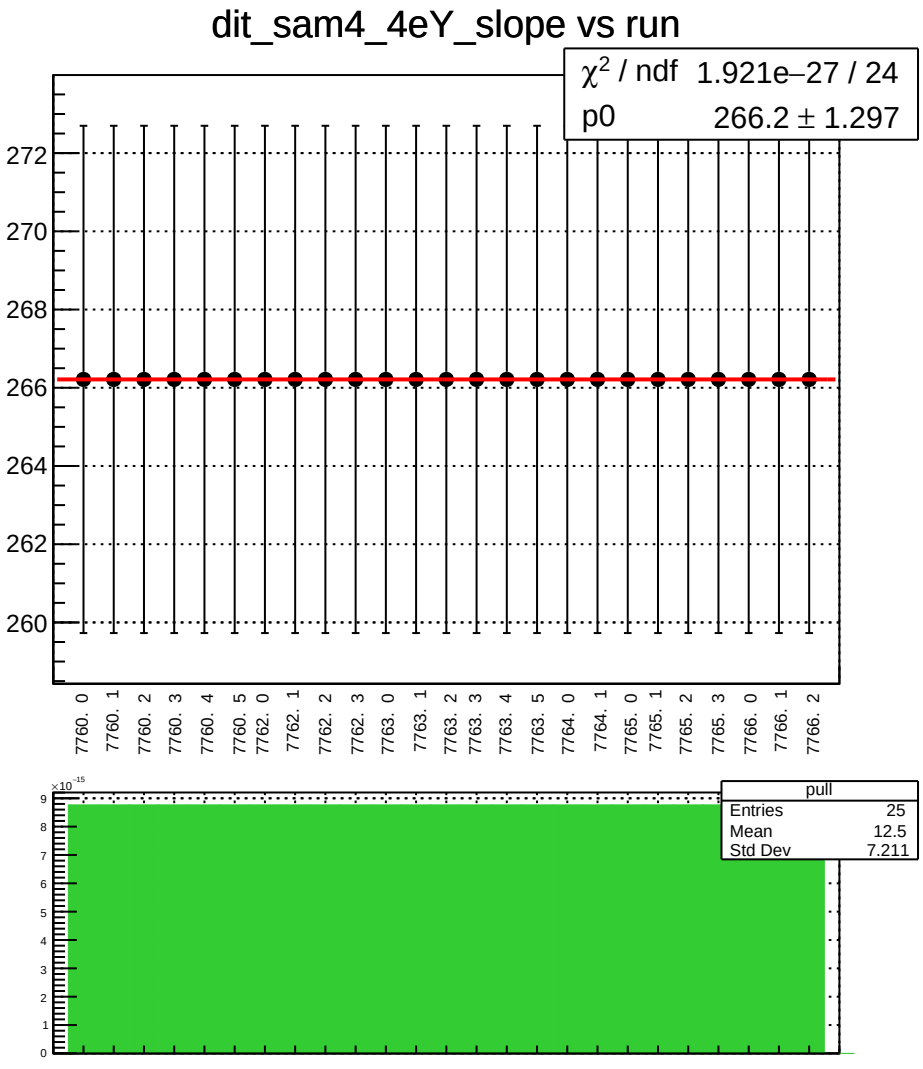

dit_sam4_4eX_slope vs run
χ² / ndf 1.866e−26 / 24
p0 −205.1 ± 0.6242
−202
−203
−204
−205
−206
−207
−208
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
×10⁻¹⁵
25
20
15
10
5
0
pull
Entries 25
Mean 12.5
Std Dev 7.211

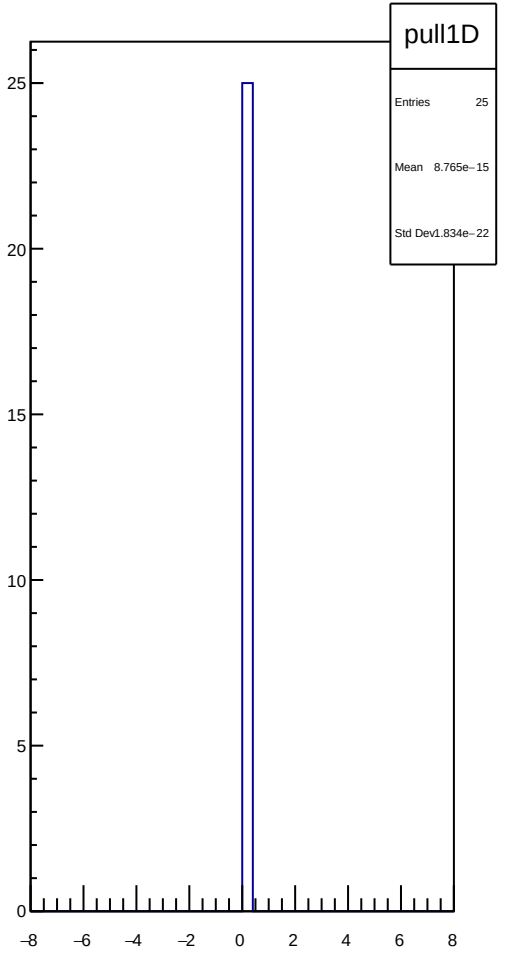

pull1D
Entries 25
Mean 2.732e−14
Std Dev 9.47e−22
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

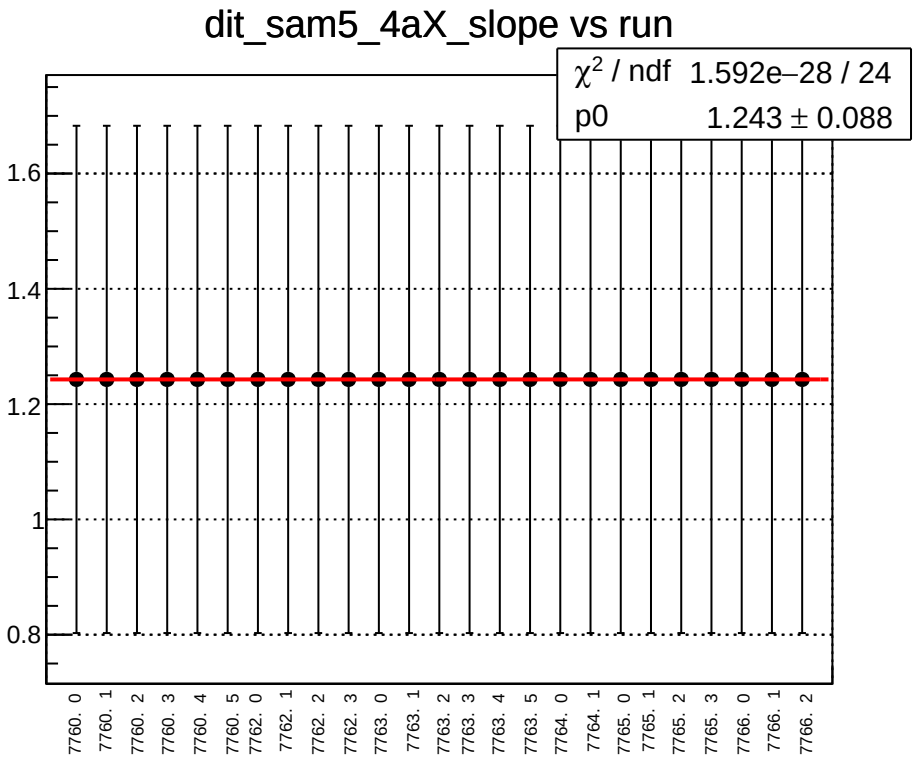

dit_sam4_11X12X_slope vs run
χ² / ndf 1.175e−30 / 24
p0 −0.6489 ± 0.2049
0.5
0
−0.5
−1
−1.5
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
×10⁻¹⁵
pull
Entries 25
Mean 12.5
Std Dev 7.211
pull1D
Entries 25
Mean 2.168e−16
Std Dev 0

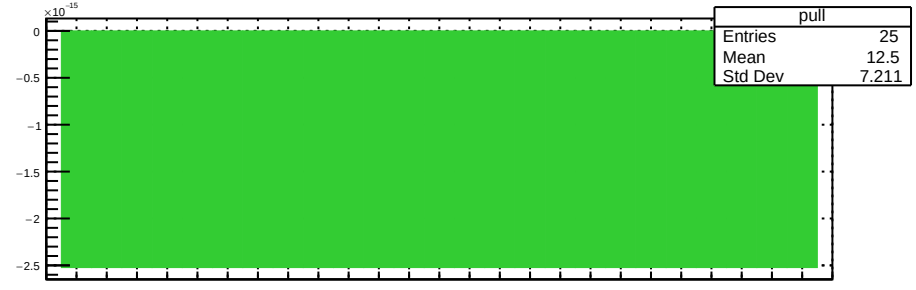

dit_sam4_4aY_slope vs run
χ² / ndf 0 / 24
p0 −9.257 ± 1.199
−4
−6
−8
−10
−12
−14
−16
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

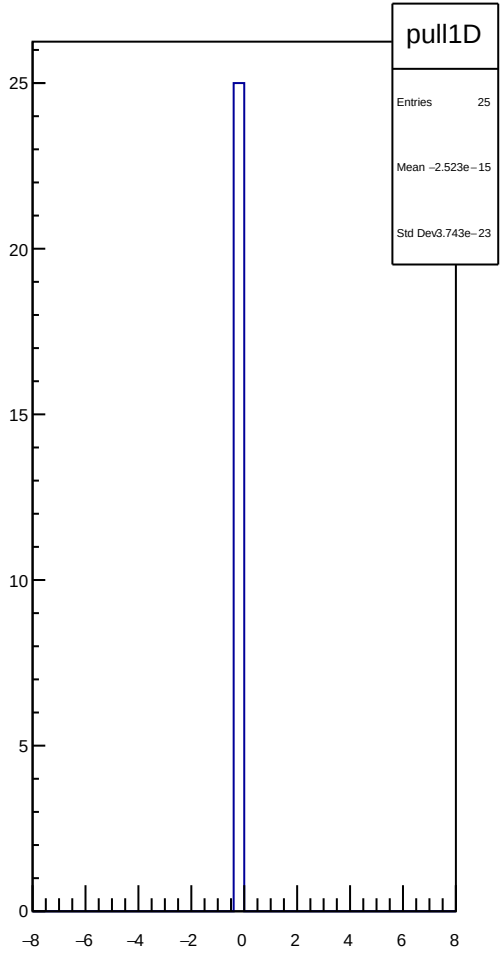

pull1D
Entries 25
Mean 0
Std Dev 0
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

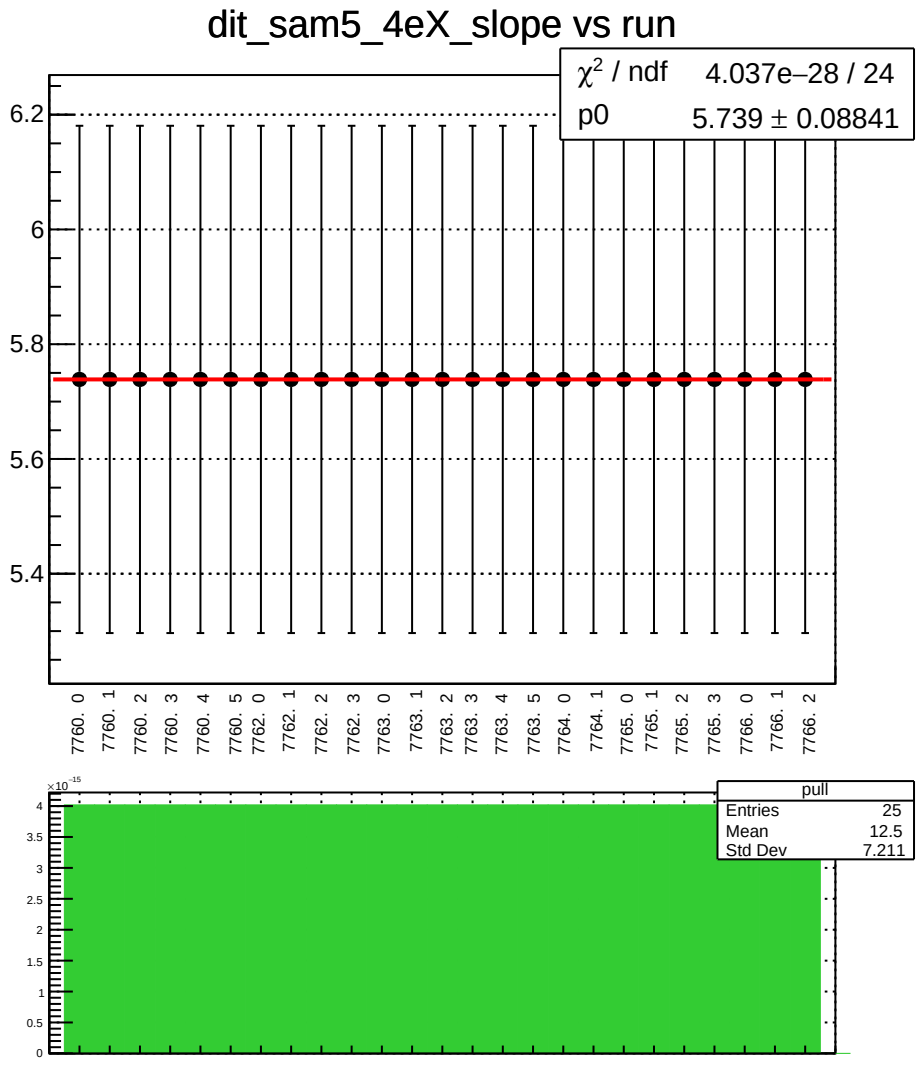

dit_sam4_4eY_slope vs run
χ² / ndf 1.921e−27 / 24
p0 266.2 ± 1.297
272
270
268
266
264
262
260
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
×10⁻¹⁵
pull
Entries 25
Mean 12.5
Std Dev 7.211

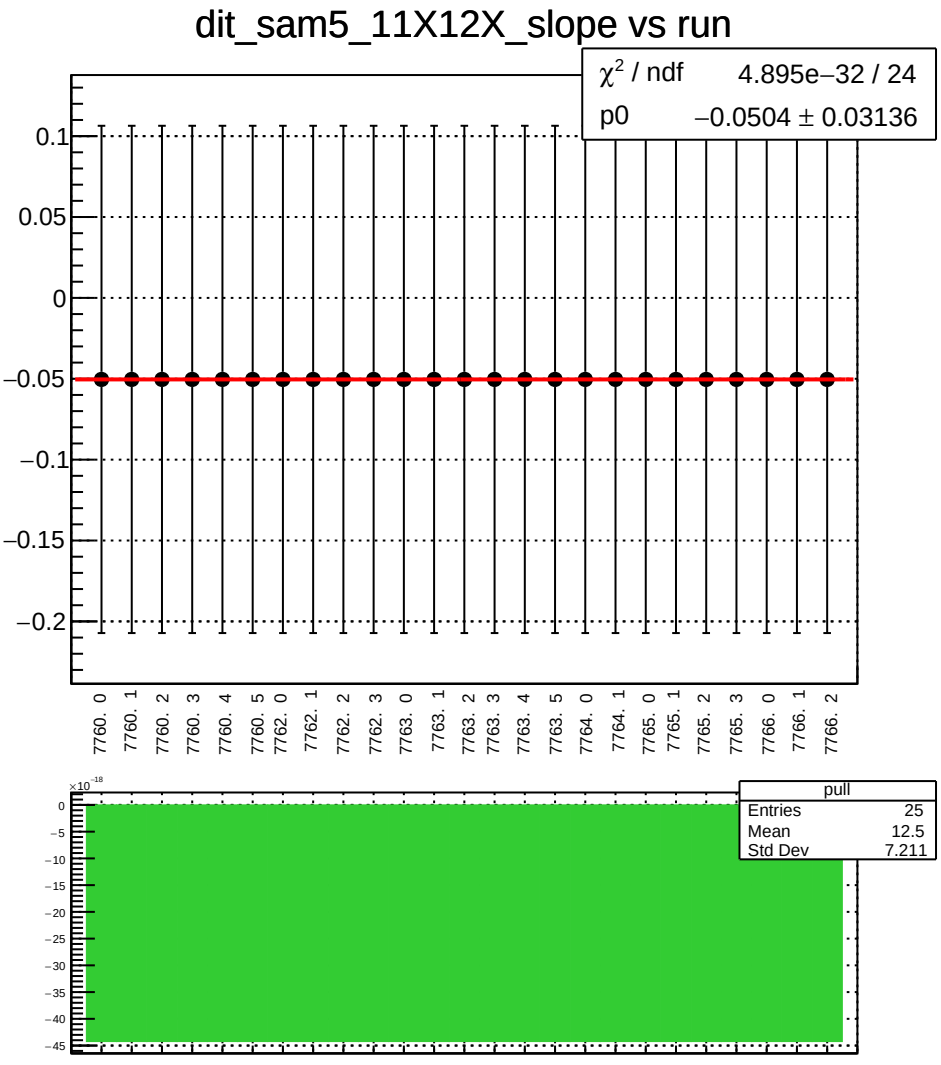

pull1D
Entries 25
Mean 8.765e−15
Std Dev1.834e−22
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

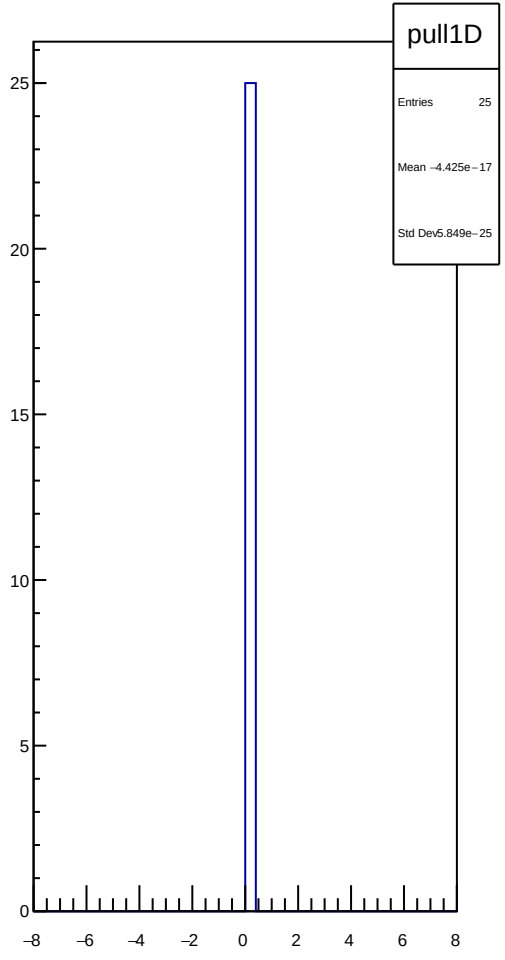

dit_sam5_4aX_slope vs run
χ² / ndf 1.592e−28 / 24
p0 1.243 ± 0.088
1.6
1.4
1.2
1
0.8
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

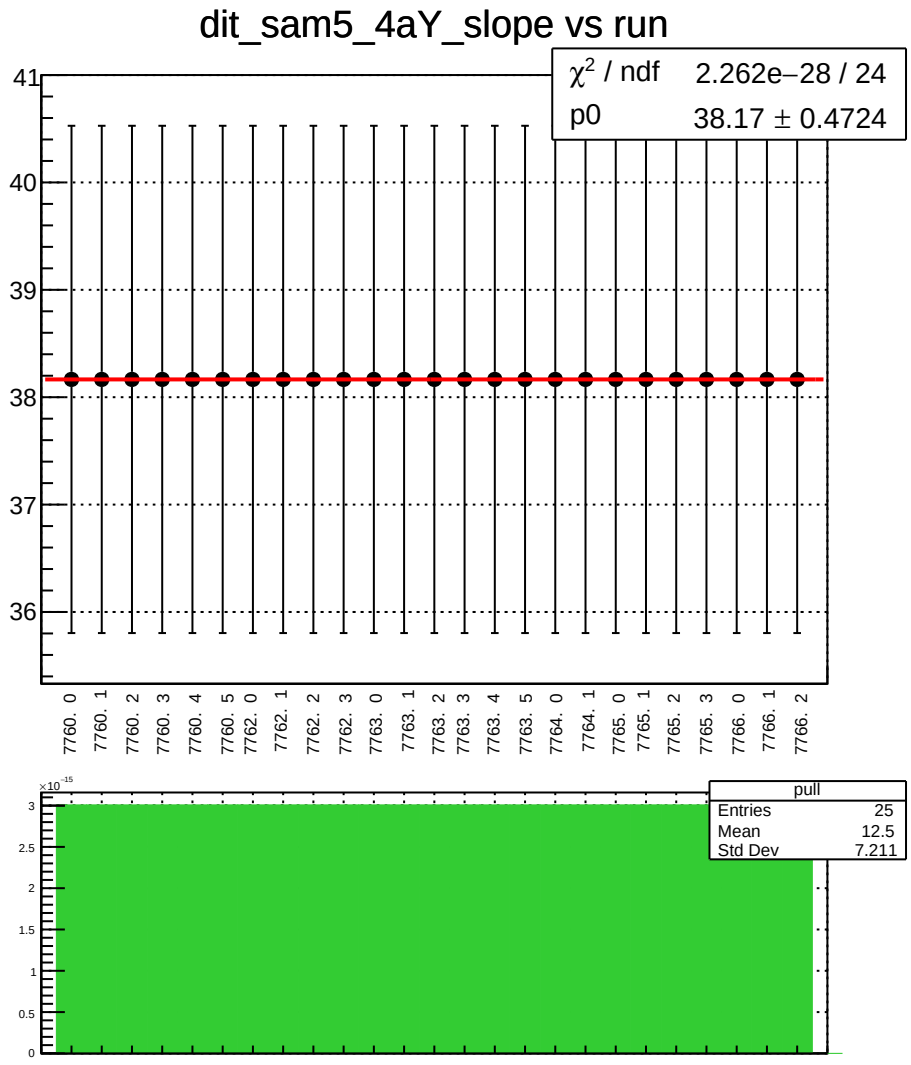

×10⁻¹⁵
0
−0.5
−1
−1.5
−2
−2.5
pull
Entries 25
Mean 12.5
Std Dev 7.211

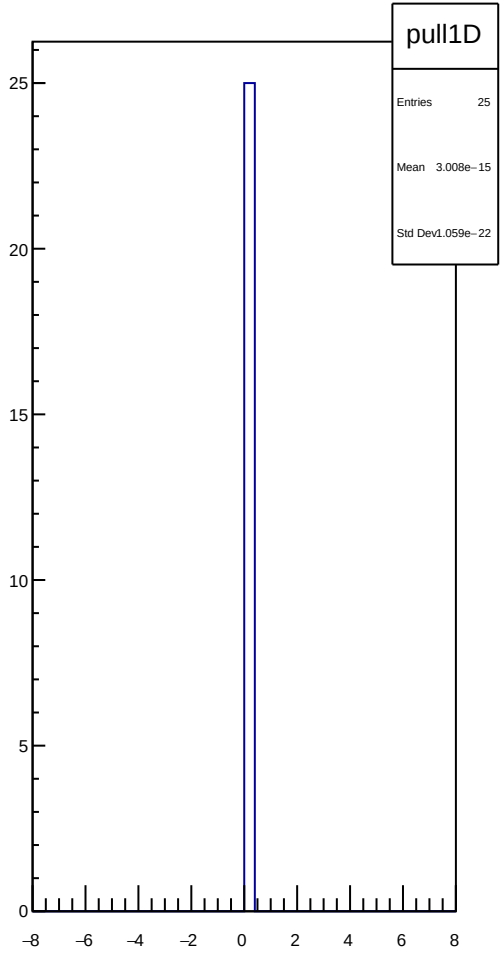

pull1D
Entries 25
Mean −2.523e−15
Std Dev 3.743e−23
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

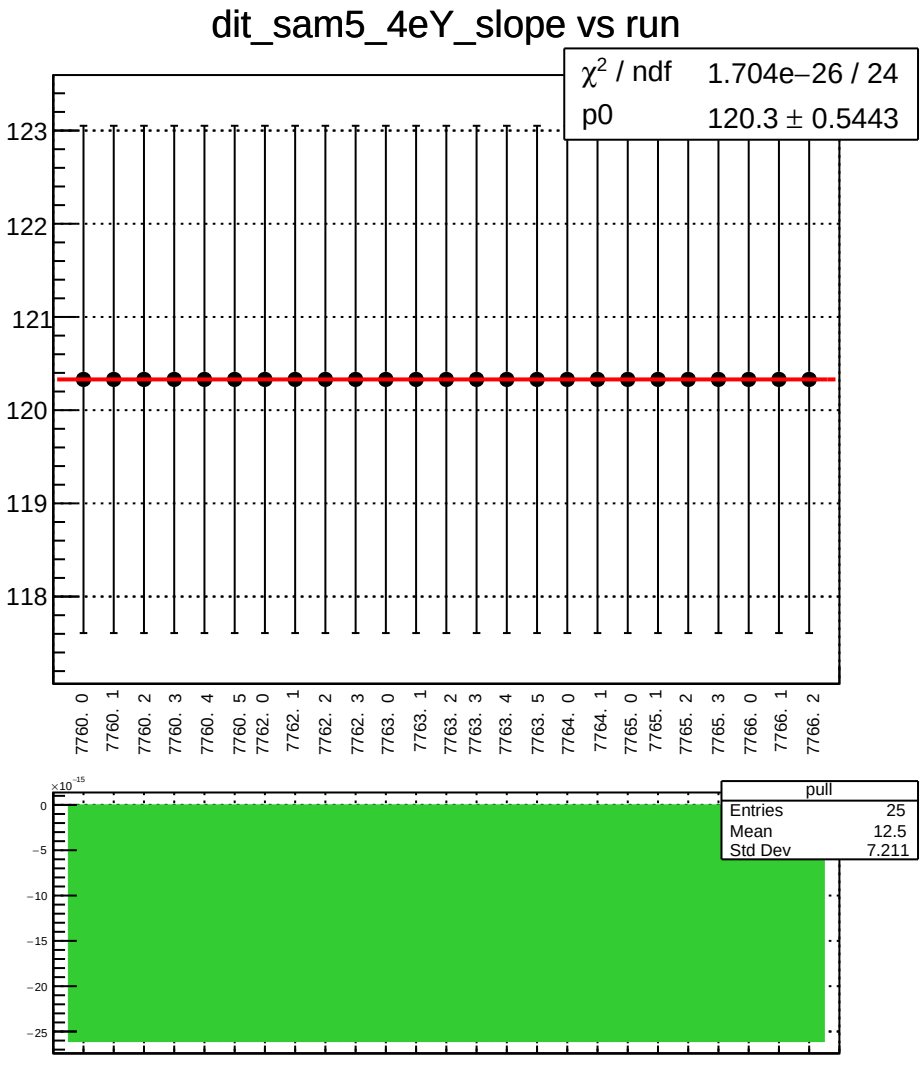

dit_sam5_4eX_slope vs run
χ² / ndf 4.037e−28 / 24
p0 5.739 ± 0.08841
6.2
6
5.8
5.6
5.4
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
×10⁻¹⁵
4
3.5
3
2.5
2
1.5
1
0.5
0
pull
Entries 25
Mean 12.5
Std Dev 7.211
pull1D
Entries 25
Mean 4.019e−15
Std Dev1.297e−22
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

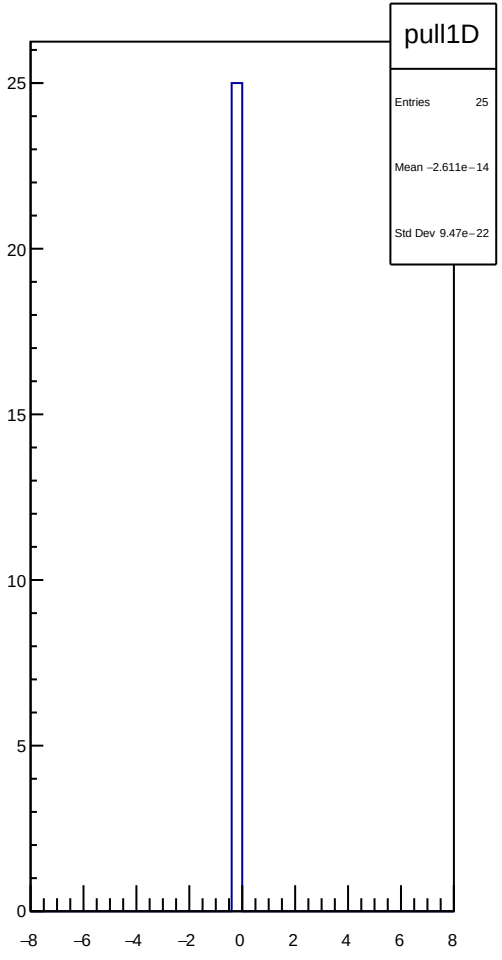

dit_sam5_11X12X_slope vs run
χ² / ndf 4.895e−32 / 24
p0 −0.0504 ± 0.03136
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
×10⁻¹⁸
0
−5
−10
−15
−20
−25
−30
−35
−40
−45
pull
Entries 25
Mean 12.5
Std Dev 7.211

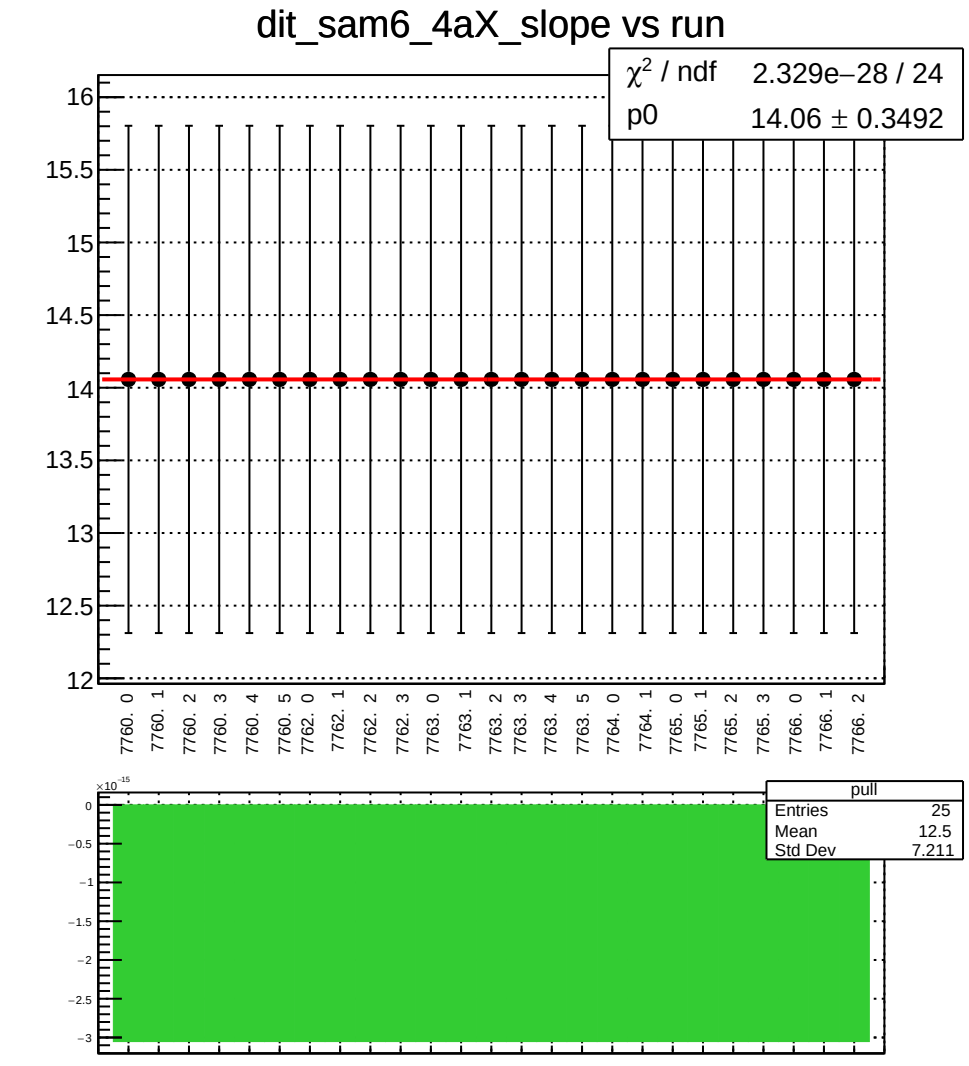

pull1D
Entries 25
Mean −4.425e−17
Std Dev 5.849e−25
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

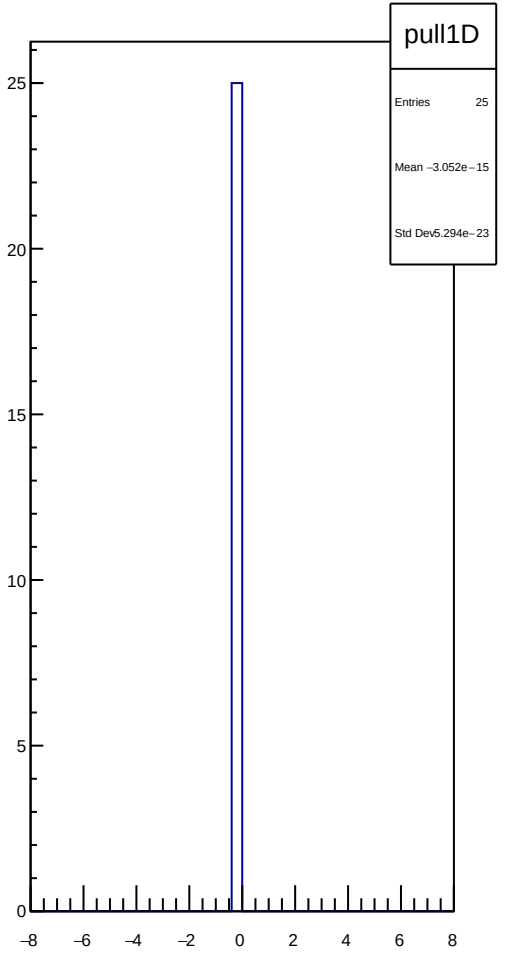

dit_sam5_4aY_slope vs run
χ² / ndf 2.262e−28 / 24
p0 38.17 ± 0.4724
41
40
39
38
37
36
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
×10⁻¹⁵
3
2.5
2
1.5
1
0.5
0
pull
Entries 25
Mean 12.5
Std Dev 7.211

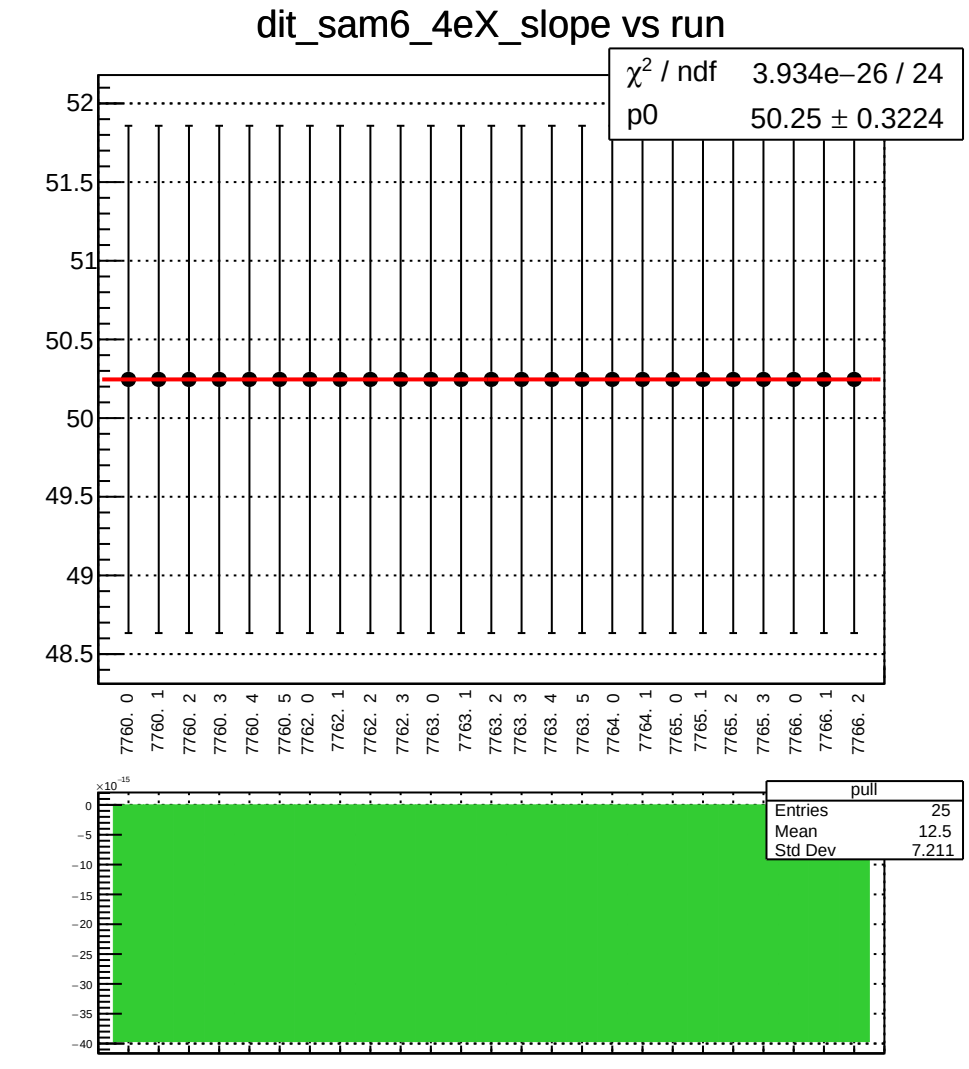

pull1D
Entries 25
Mean 3.008e−15
Std Dev1.059e−22
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

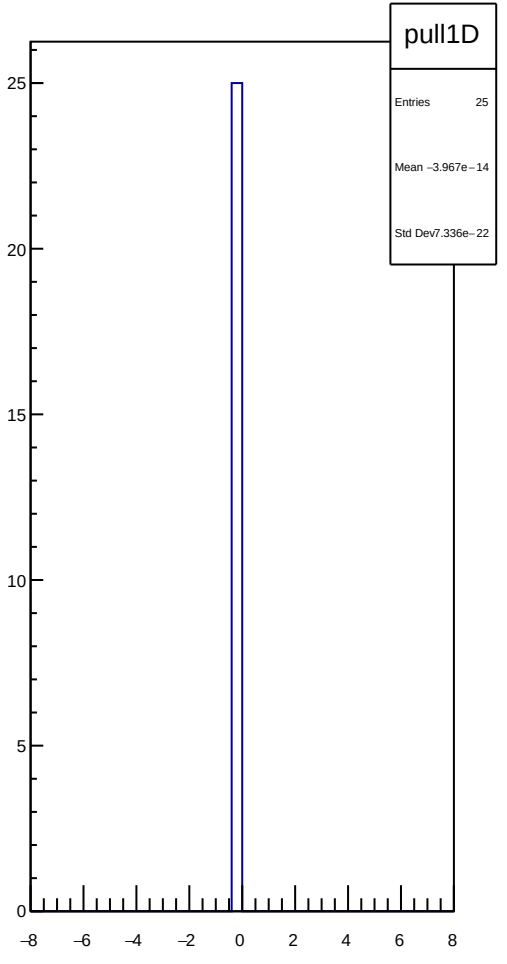

dit_sam5_4eY_slope vs run
χ² / ndf 1.704e−26 / 24
p0 120.3 ± 0.5443
123
122
121
120
119
118
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
×10⁻¹⁵
0
−5
−10
−15
−20
−25
pull
Entries 25
Mean 12.5
Std Dev 7.211

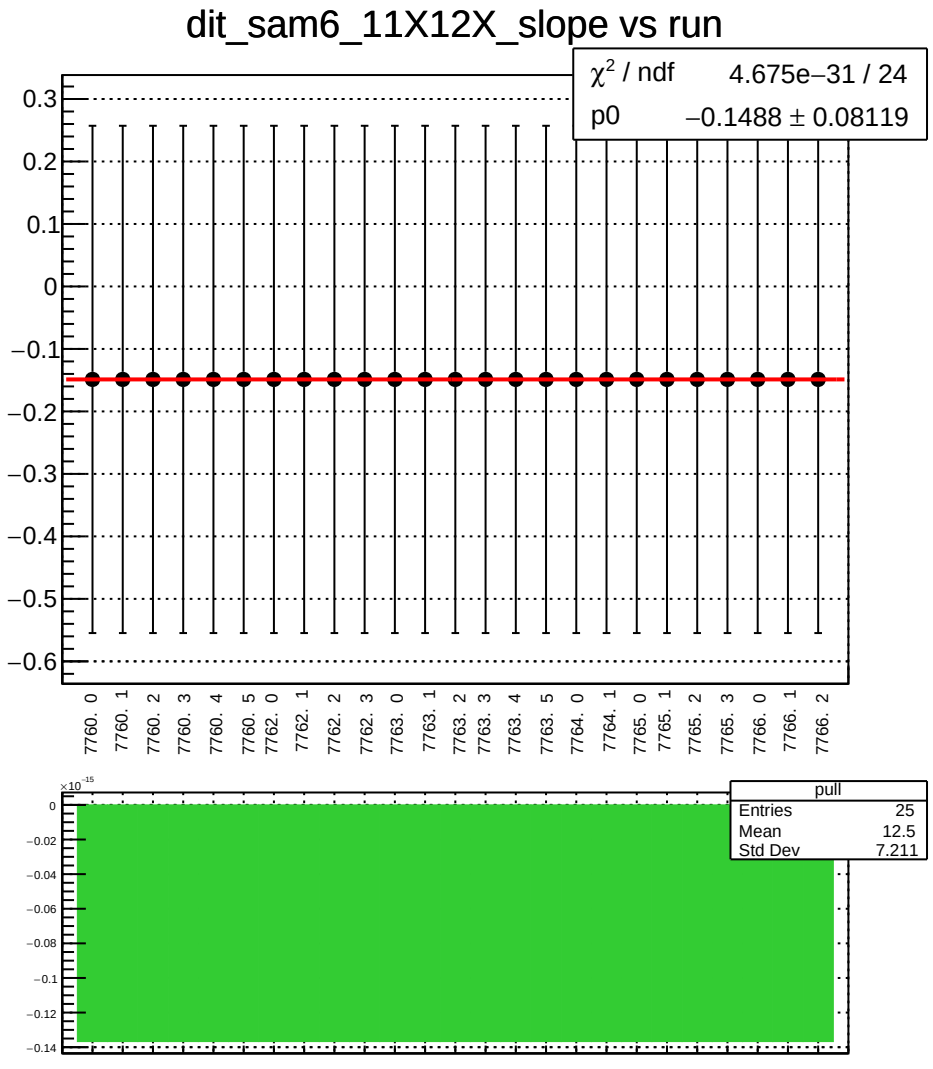

pull1D
Entries 25
Mean −2.611e−14
Std Dev 9.47e−22
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

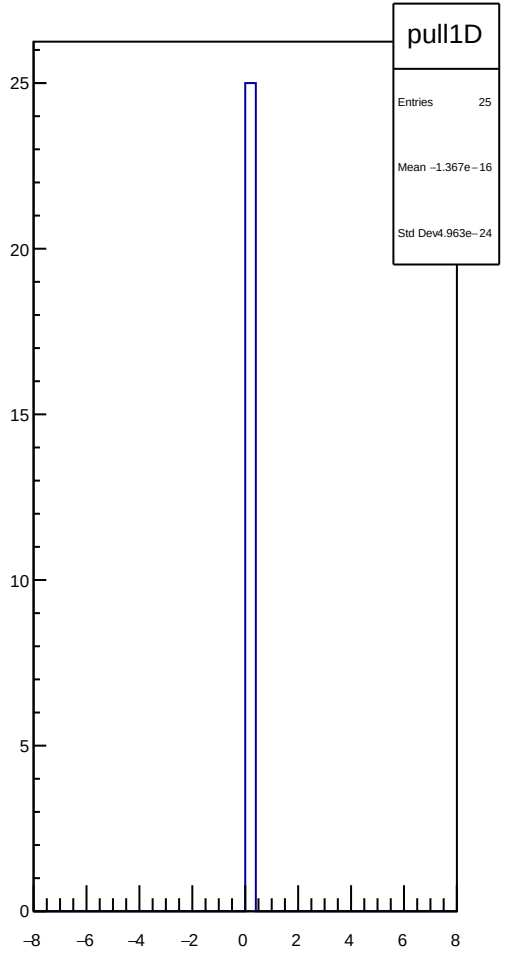

dit_sam6_4aX_slope vs run
χ² / ndf 2.329e−28 / 24
p0 14.06 ± 0.3492
16
15.5
15
14.5
14
13.5
13
12.5
12
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
×10⁻¹⁵
0
−0.5
−1
−1.5
−2
−2.5
−3
pull
Entries 25
Mean 12.5
Std Dev 7.211

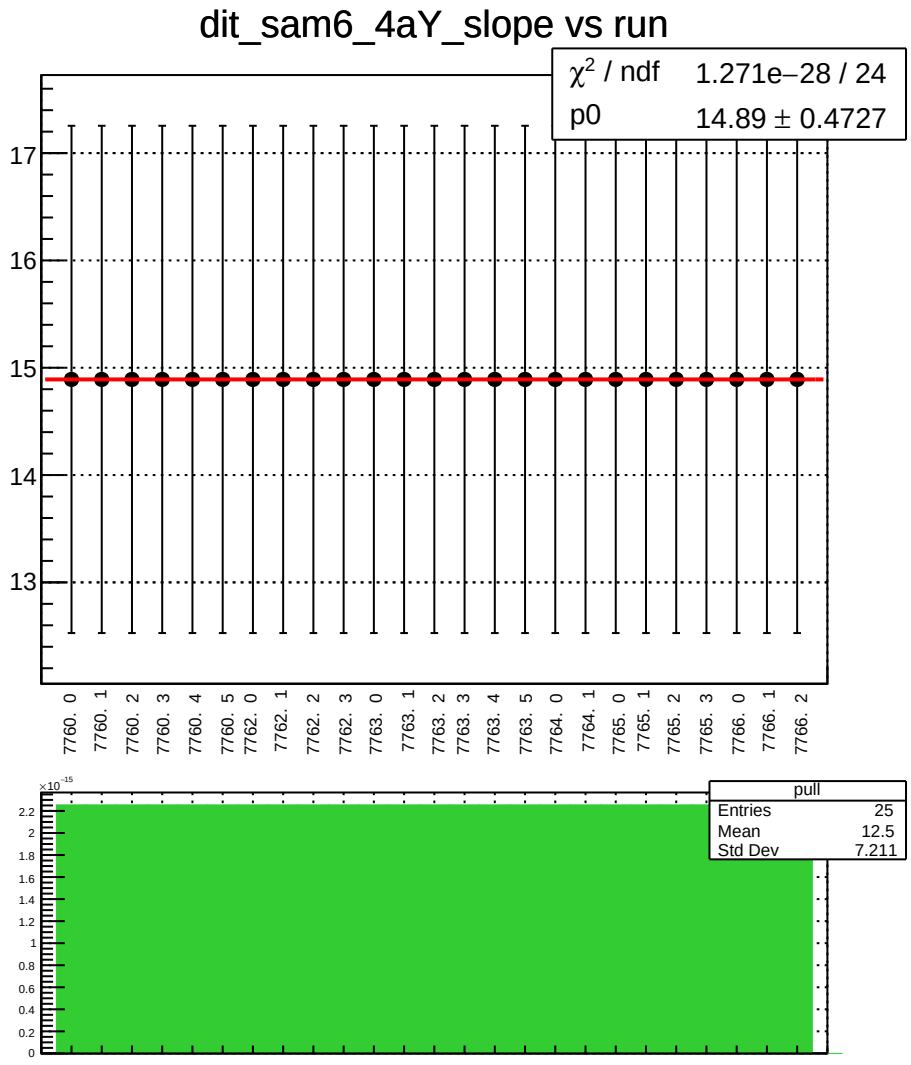

pull1D
Entries 25
Mean −3.052e−15
Std Dev5.294e−23
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

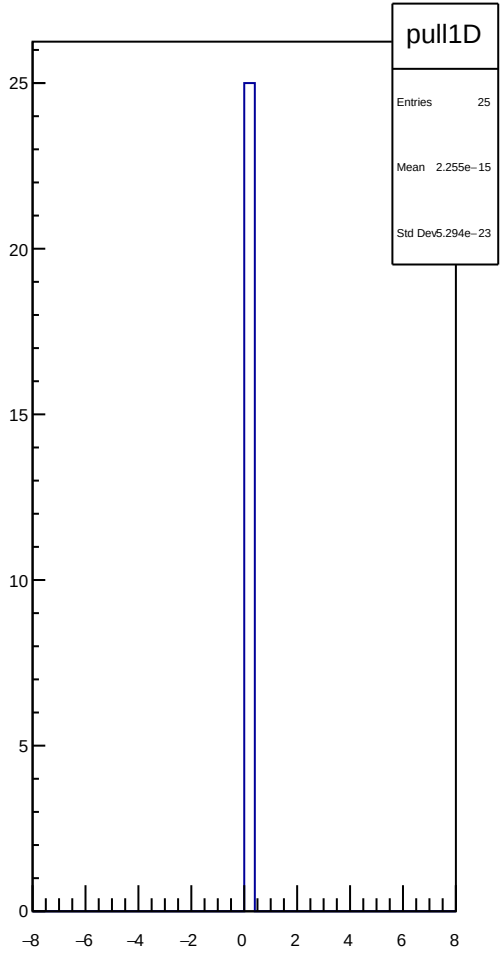

dit_sam6_4eX_slope vs run
χ² / ndf 3.934e−26 / 24
p0 50.25 ± 0.3224
52
51.5
51
50.5
50
49.5
49
48.5
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 12.5
Std Dev 7.211
×10⁻¹⁵
0
−5
−10
−15
−20
−25
−30
−35
−40

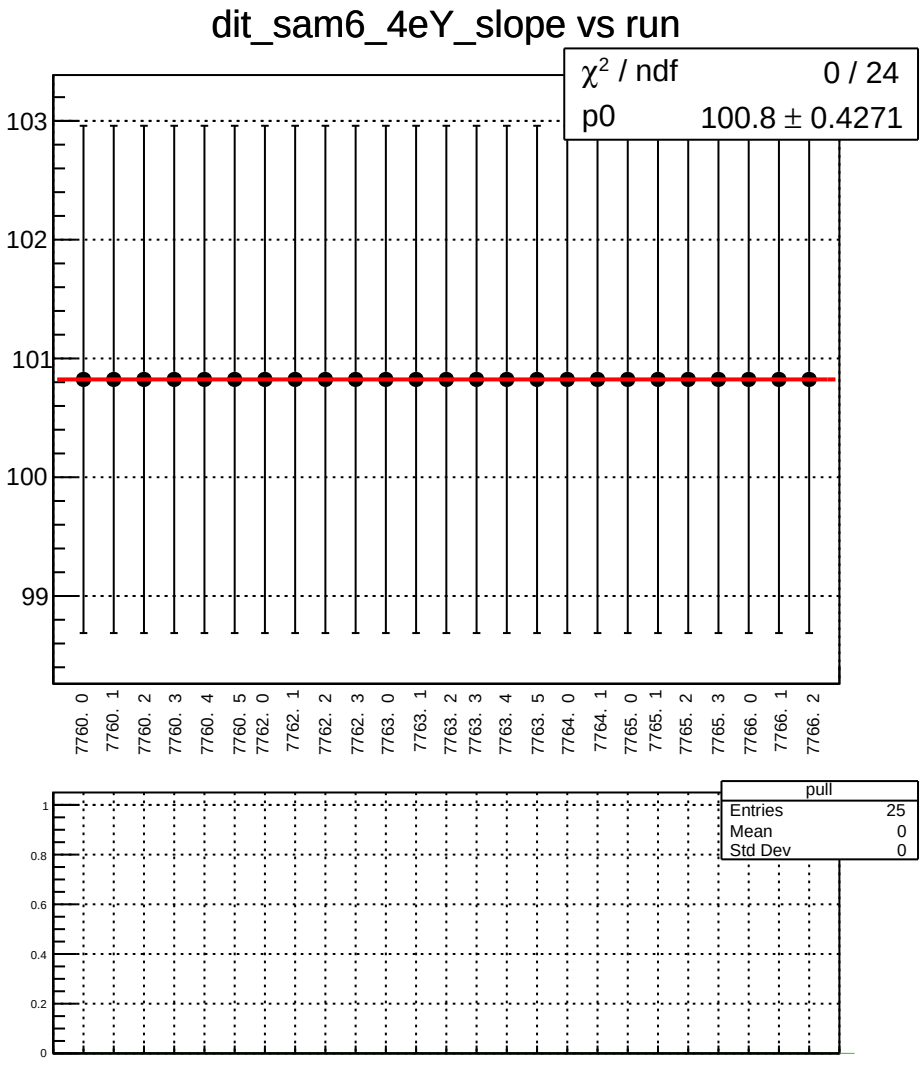

pull1D
Entries 25
Mean −3.967e−14
Std Dev7.336e−22
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

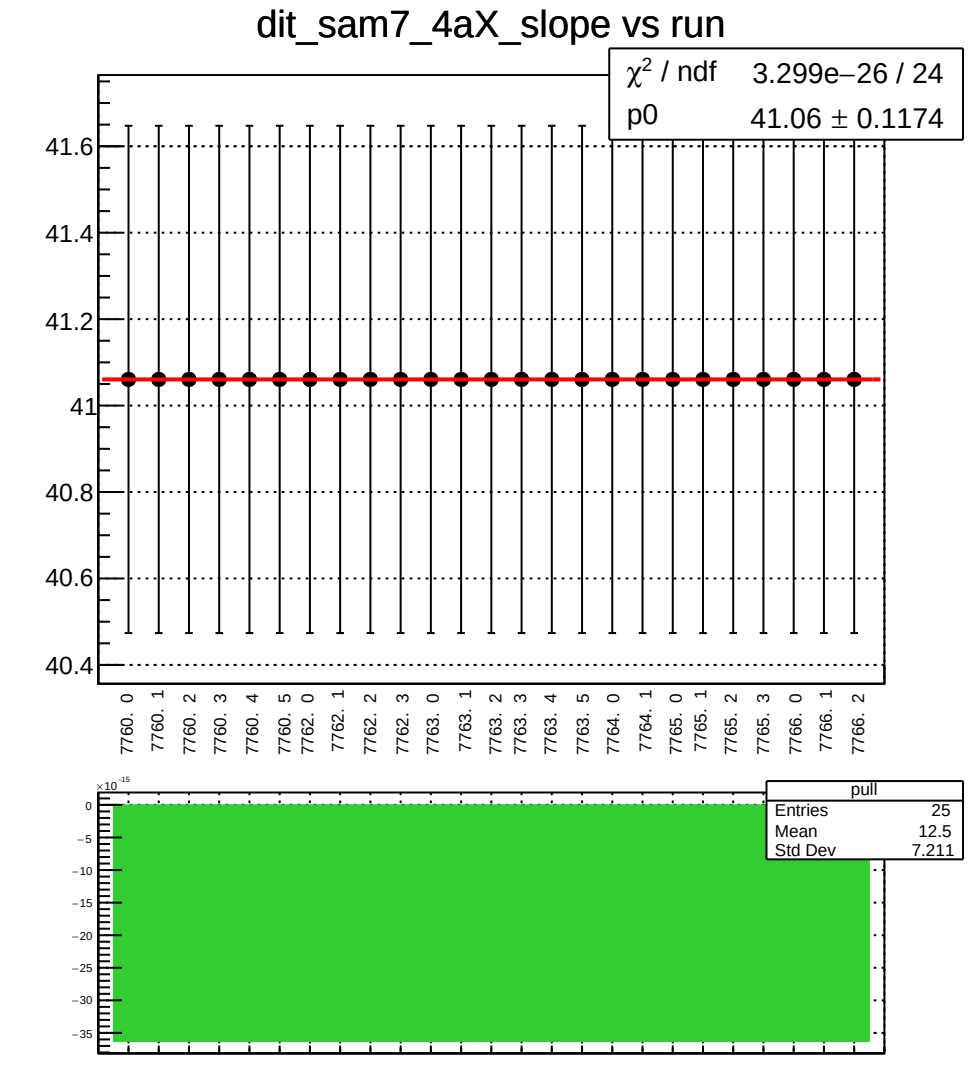

dit_sam6_11X12X_slope vs run
χ² / ndf 4.675e−31 / 24
p0 −0.1488 ± 0.08119
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
×10⁻¹⁵
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
−0.14
pull
Entries 25
Mean 12.5
Std Dev 7.211

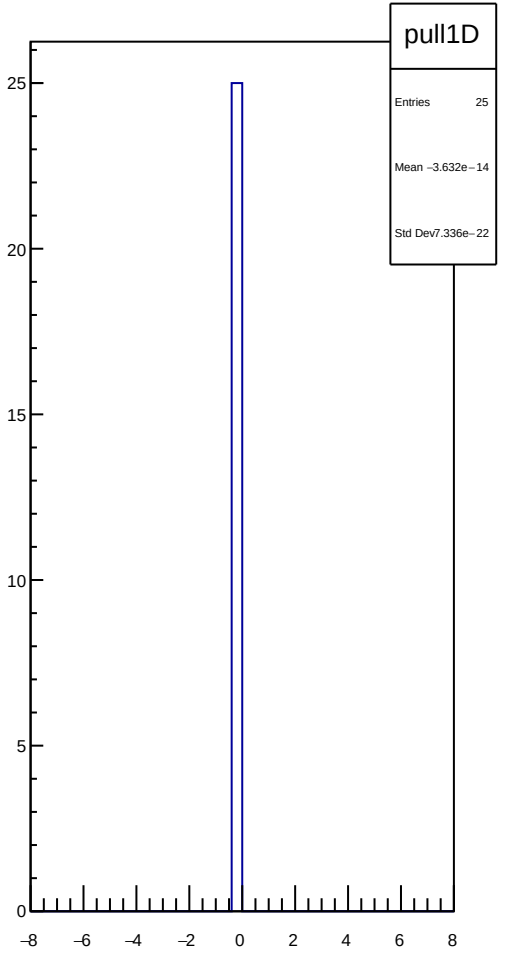

pull1D
Entries 25
Mean −1.367e−16
Std Dev4.963e−24
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

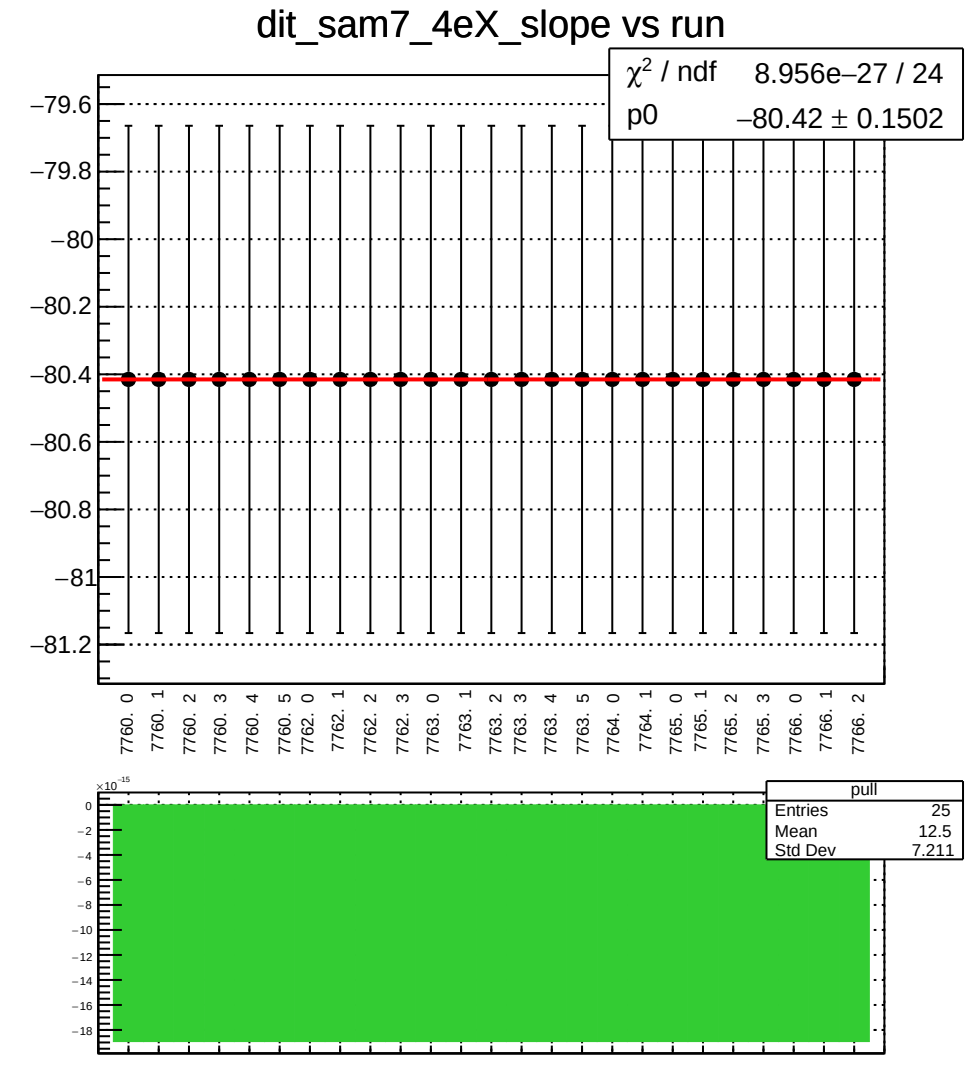

dit_sam6_4aY_slope vs run
χ² / ndf 1.271e−28 / 24
p0 14.89 ± 0.4727
17
16
15
14
13
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
×10⁻¹⁵
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
pull
Entries 25
Mean 12.5
Std Dev 7.211

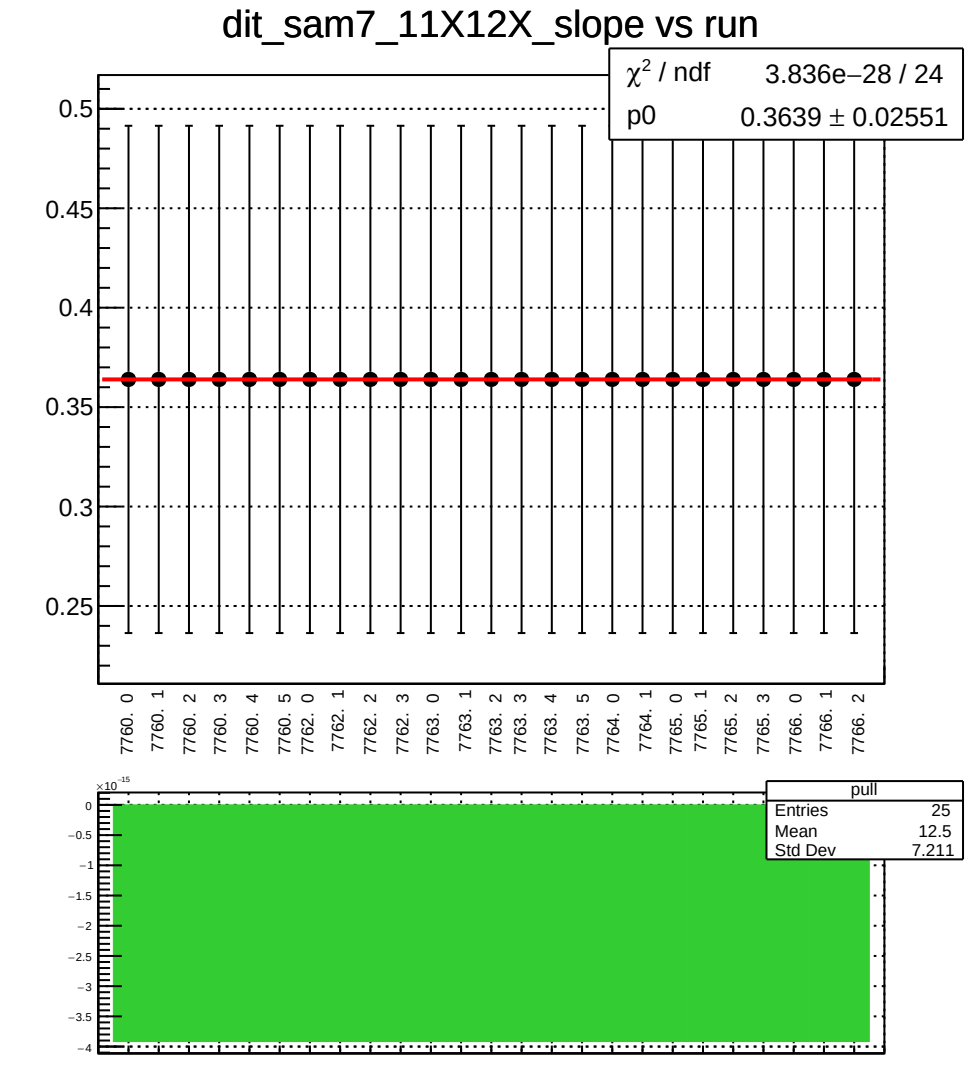

pull1D
Entries 25
Mean 2.255e−15
Std Dev5.294e−23
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

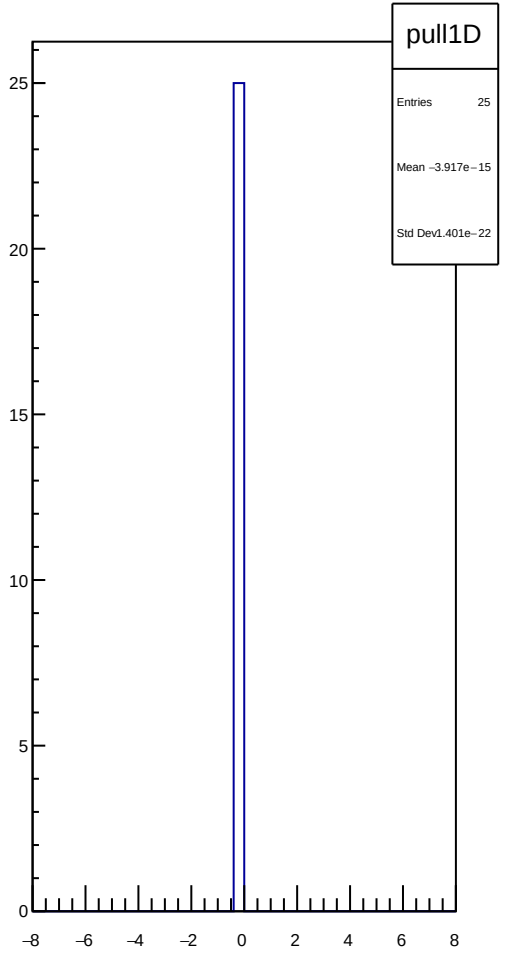

dit_sam6_4eY_slope vs run
χ² / ndf 0 / 24
p0 100.8 ± 0.4271
103
102
101
100
99
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 25
Mean 0
Std Dev 0
25
20
15
10
5
0
–8
–6
–4
–2
0
2
4
6
8

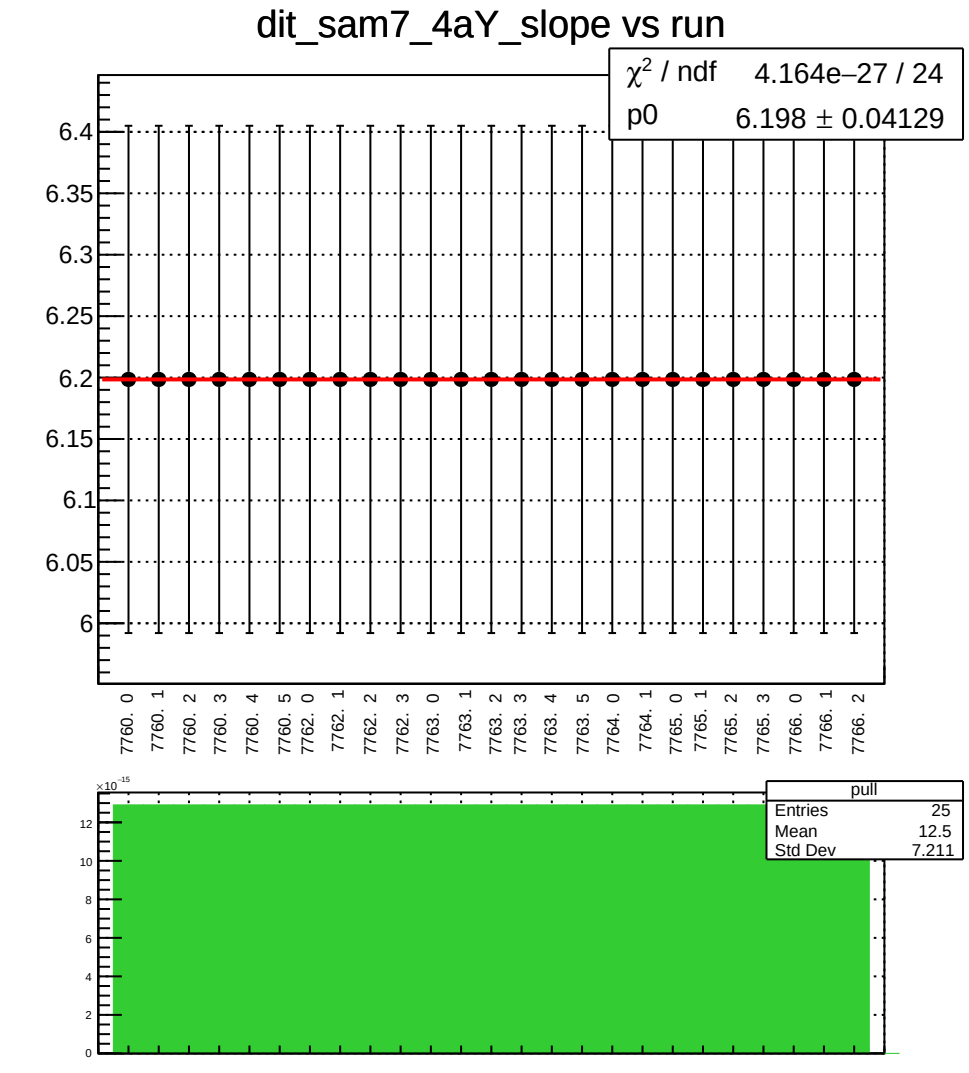

dit_sam7_4aX_slope vs run
χ² / ndf 3.299e−26 / 24
p0 41.06 ± 0.1174
41.6
41.4
41.2
41
40.8
40.6
40.4
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
×10⁻¹⁵
0
−5
−10
−15
−20
−25
−30
−35
pull
Entries 25
Mean 12.5
Std Dev 7.211

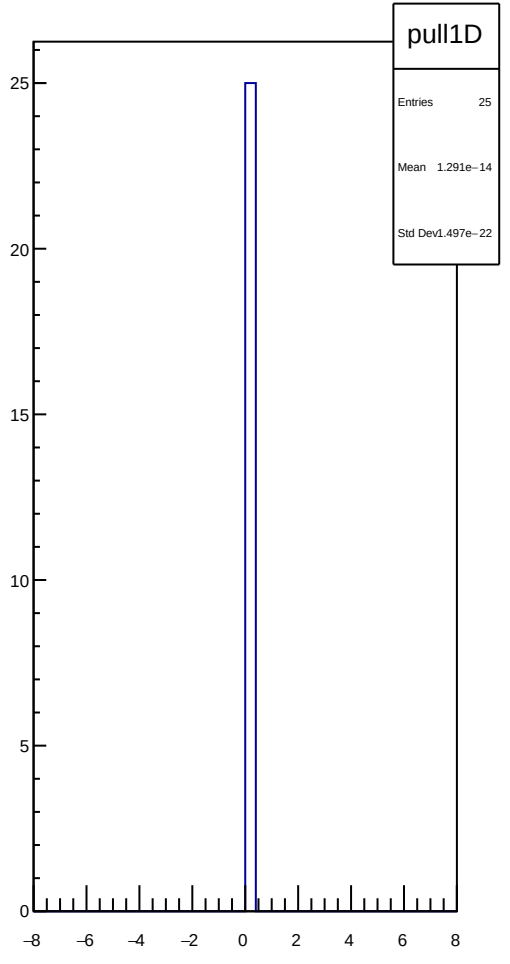

pull1D
Entries 25
Mean −3.632e−14
Std Dev7.336e−22
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

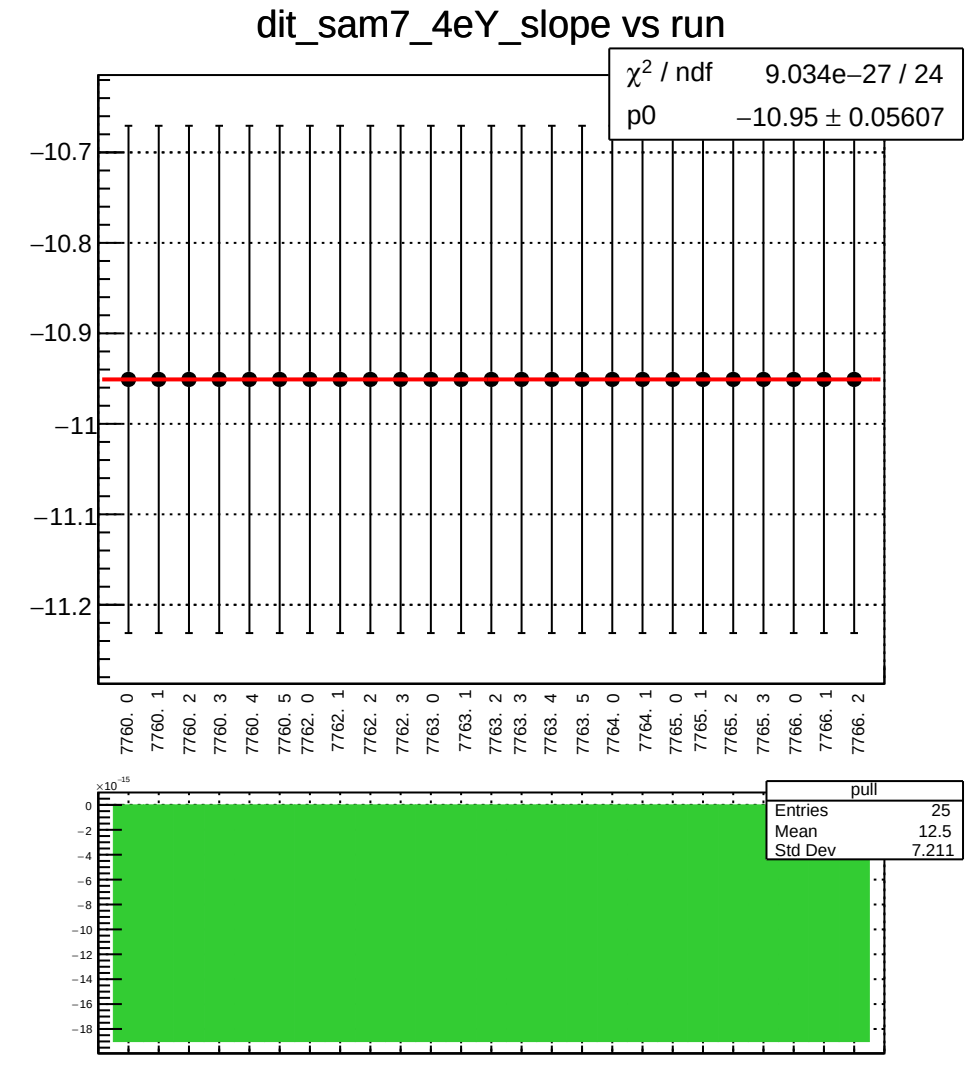

dit_sam7_4eX_slope vs run
χ² / ndf 8.956e−27 / 24
p0 −80.42 ± 0.1502
−79.6
−79.8
−80
−80.2
−80.4
−80.6
−80.8
−81
−81.2
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
×10⁻¹⁵
pull
Entries 25
Mean 12.5
Std Dev 7.211
pull1D
Entries 25
Mean −1.893e−14
Std Dev4.735e−22

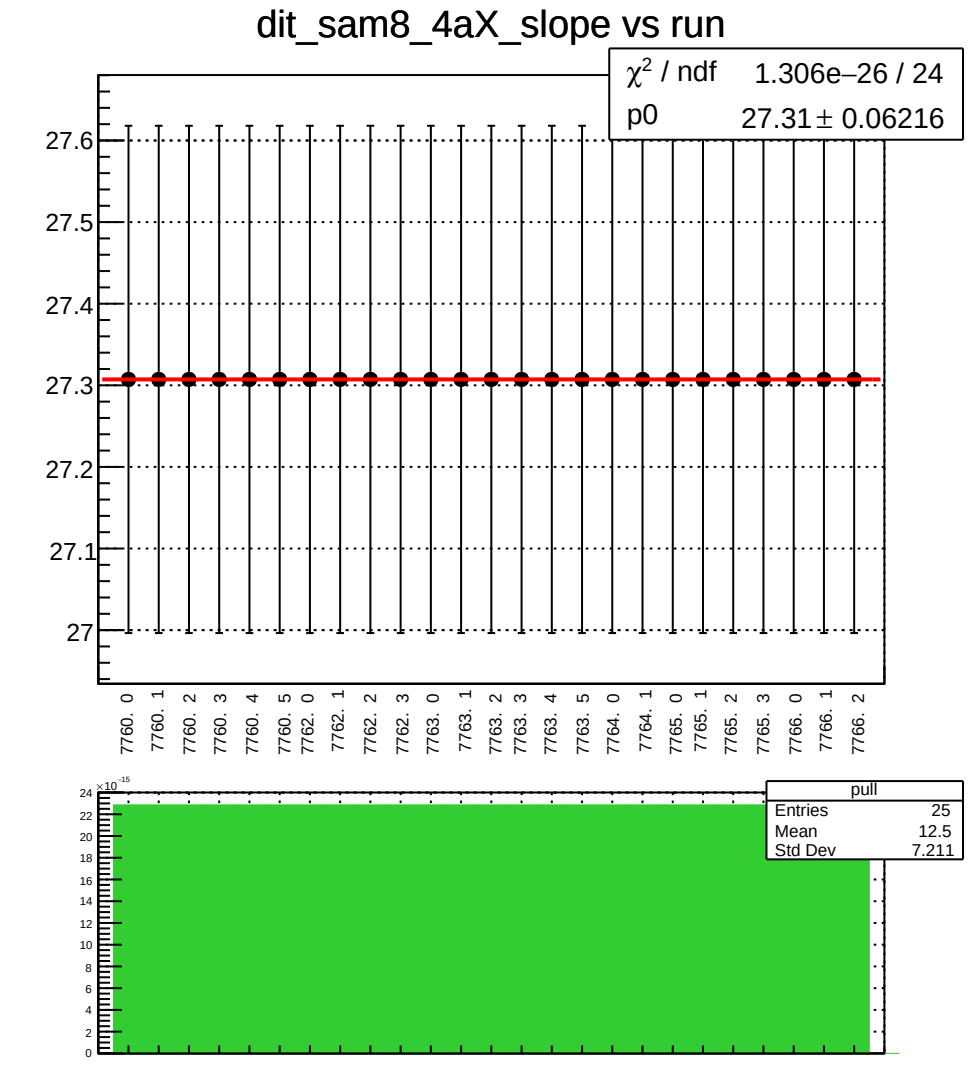

dit_sam7_11X12X_slope vs run
χ² / ndf 3.836e−28 / 24
p0 0.3639 ± 0.02551
0.5
0.45
0.4
0.35
0.3
0.25
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
×10⁻¹⁵
0
−0.5
−1
−1.5
−2
−2.5
−3
−3.5
−4
pull
Entries 25
Mean 12.5
Std Dev 7.211

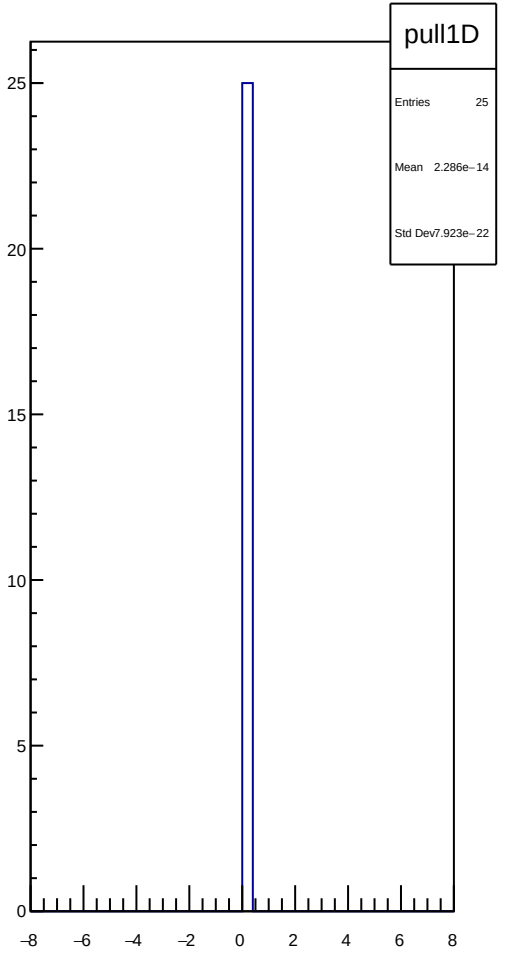

pull1D
Entries 25
Mean −3.917e−15
Std Dev1.401e−22
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

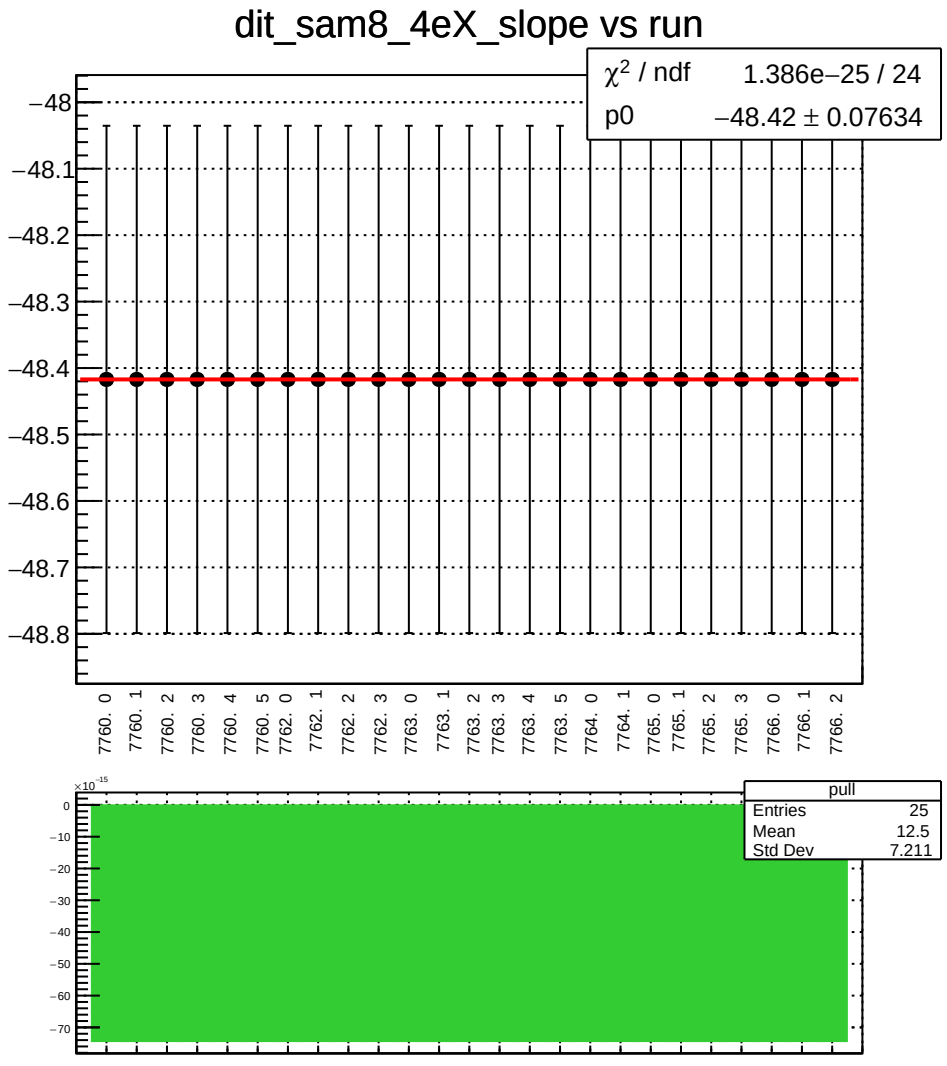

dit_sam7_4aY_slope vs run
χ² / ndf 4.164e−27 / 24
p0 6.198 ± 0.04129
6.4
6.35
6.3
6.25
6.2
6.15
6.1
6.05
6
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
×10⁻¹⁵
12
10
8
6
4
2
0
pull
Entries 25
Mean 12.5
Std Dev 7.211

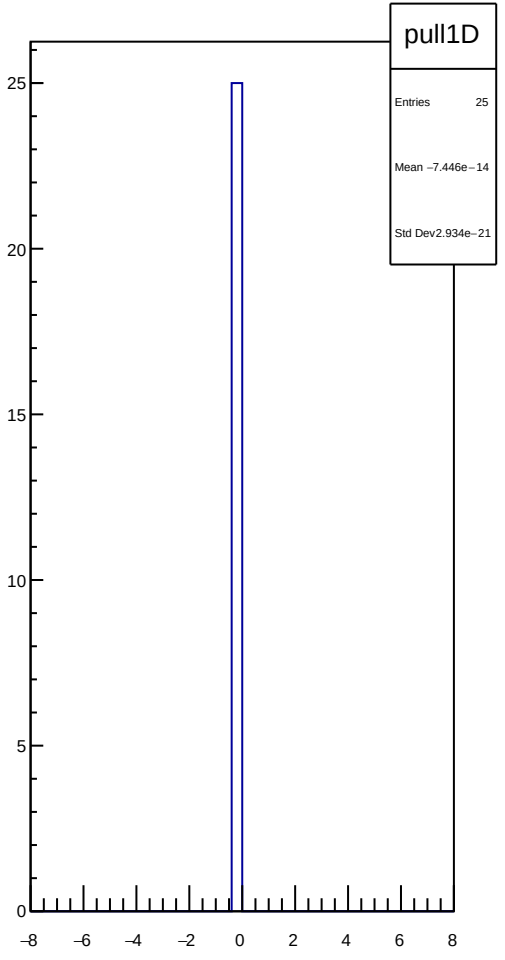

pull1D
Entries 25
Mean 1.291e−14
Std Dev1.497e−22
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

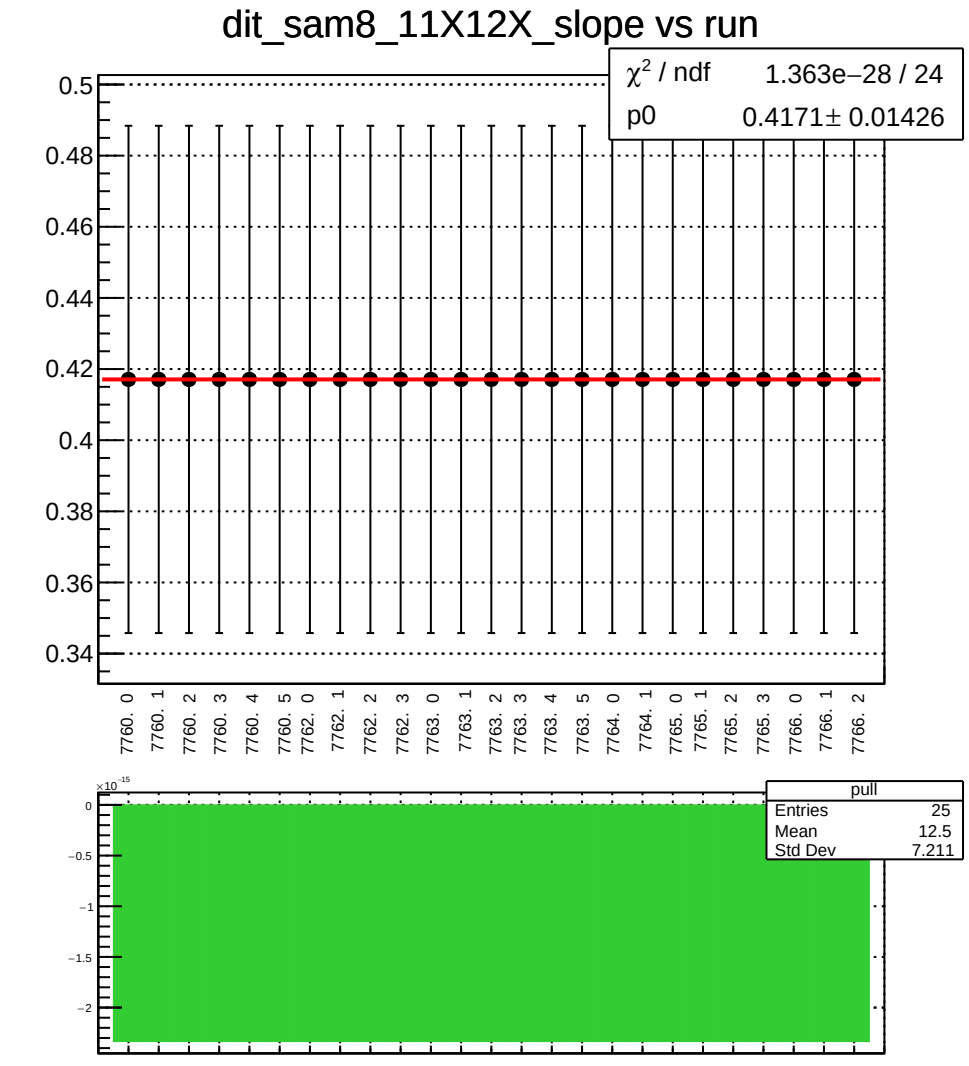

dit_sam7_4eY_slope vs run
χ² / ndf 9.034e−27 / 24
p0 −10.95 ± 0.05607
−10.7
−10.8
−10.9
−11
−11.1
−11.2
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
×10⁻¹⁵
pull
Entries 25
Mean 12.5
Std Dev 7.211
pull1D
Entries 25
Mean −1.901e−14
Std Dev4.235e−22

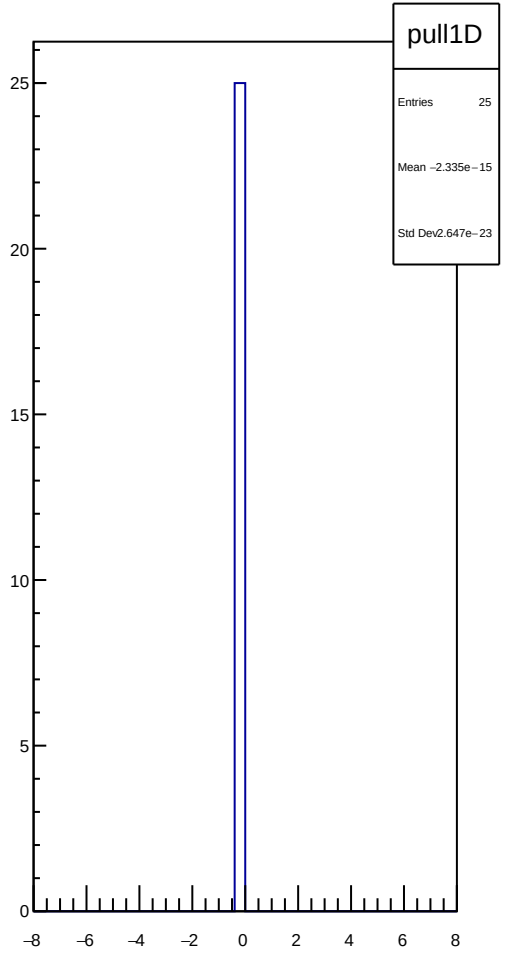

dit_sam8_4aX_slope vs run
χ² / ndf 1.306e−26 / 24
p0 27.31 ± 0.06216
27.6
27.5
27.4
27.3
27.2
27.1
27
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
×10⁻¹⁵
pull
Entries 25
Mean 12.5
Std Dev 7.211

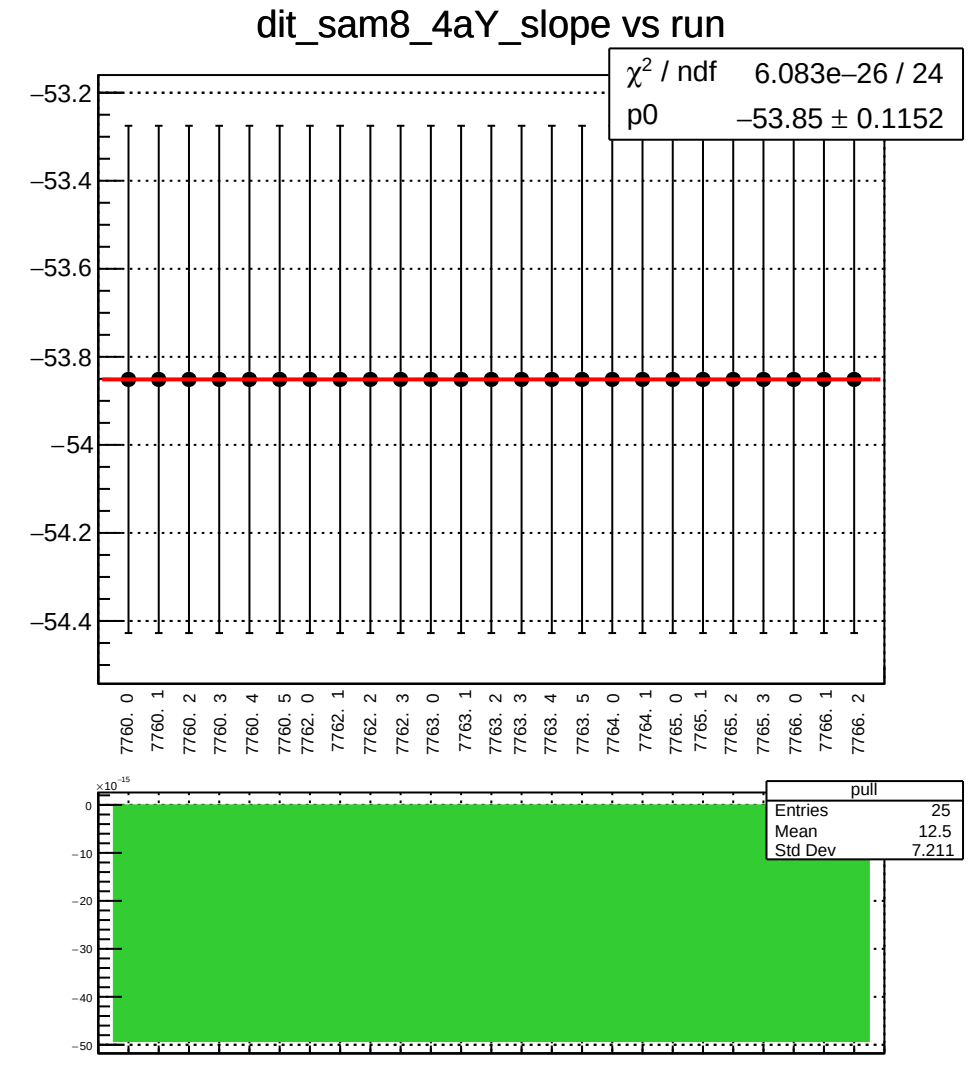

pull1D
Entries 25
Mean 2.286e−14
Std Dev7.923e−22
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

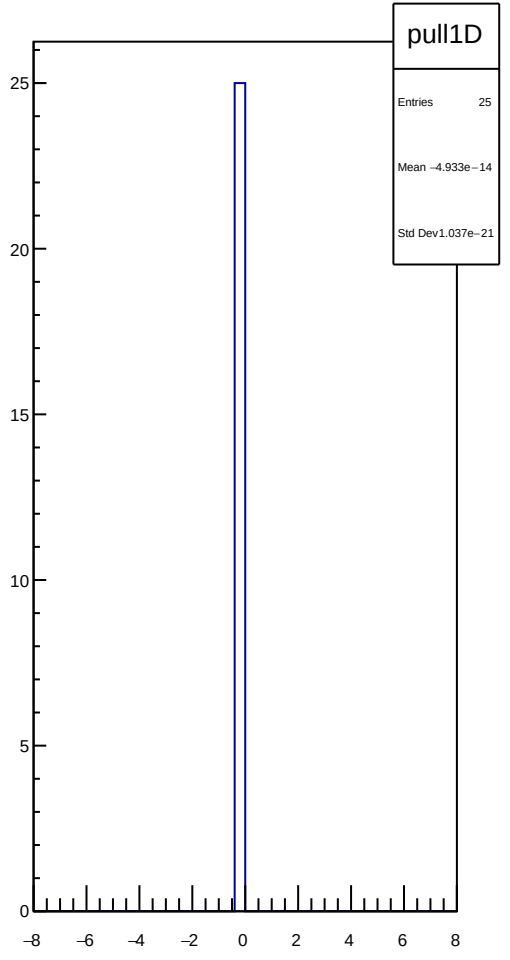

dit_sam8_4eX_slope vs run
χ² / ndf 1.386e−25 / 24
p0 −48.42 ± 0.07634
−48
−48.1
−48.2
−48.3
−48.4
−48.5
−48.6
−48.7
−48.8
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
×10⁻¹⁵
0
−10
−20
−30
−40
−50
−60
−70
pull
Entries 25
Mean 12.5
Std Dev 7.211

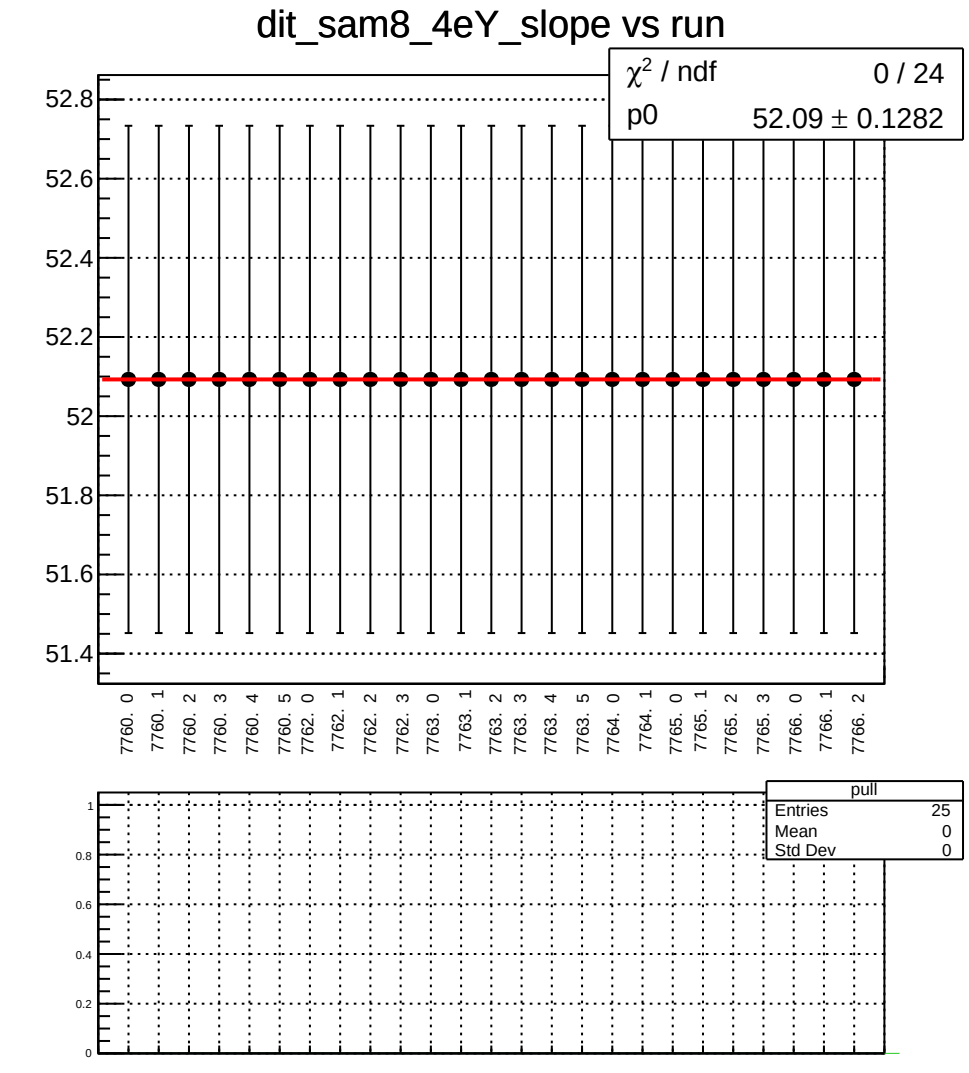

pull1D
Entries 25
Mean −7.446e−14
Std Dev2.934e−21
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

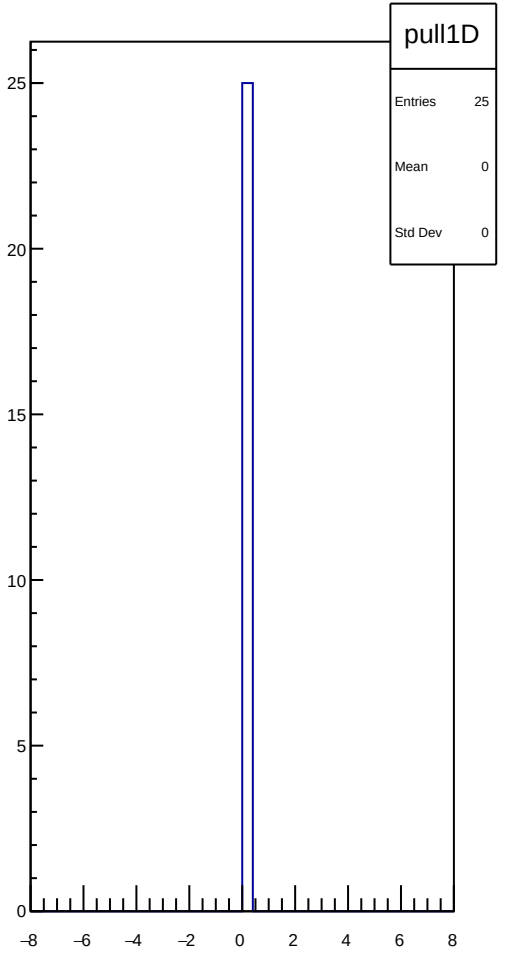

dit_sam8_11X12X_slope vs run
χ² / ndf 1.363e−28 / 24
p0 0.4171± 0.01426
0.5
0.48
0.46
0.44
0.42
0.4
0.38
0.36
0.34
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
×10⁻¹⁵
0
−0.5
−1
−1.5
−2
pull
Entries 25
Mean 12.5
Std Dev 7.211

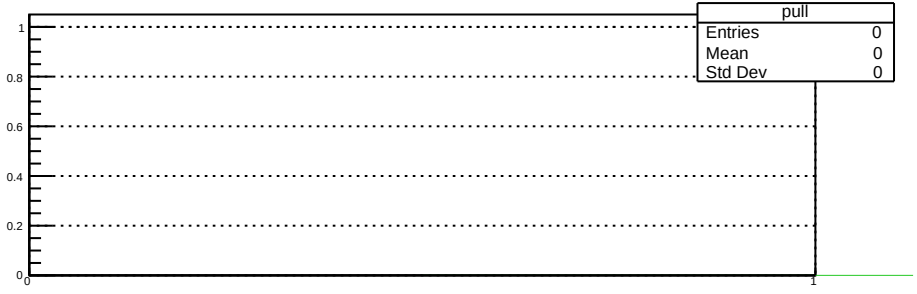

pull1D
Entries 25
Mean −2.335e−15
Std Dev2.647e−23
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

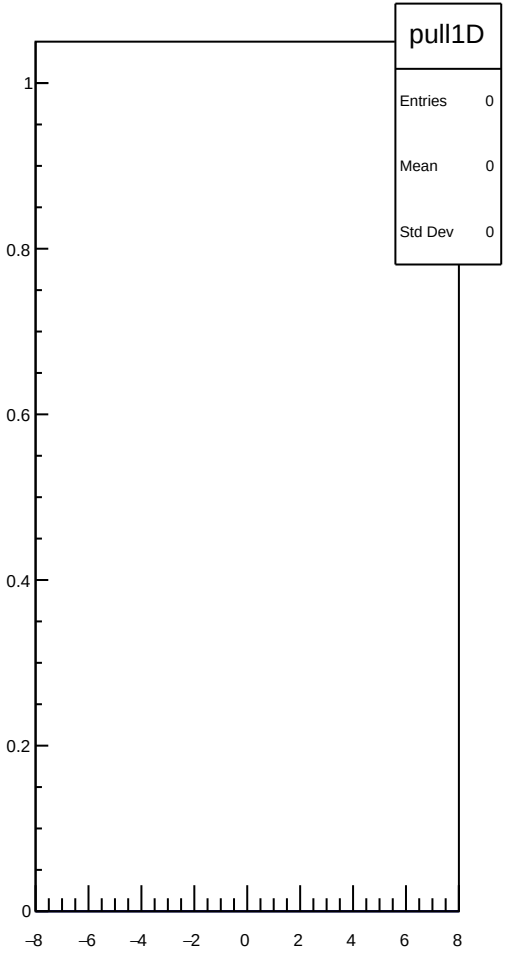

dit_sam8_4aY_slope vs run
χ² / ndf 6.083e−26 / 24
p0 −53.85 ± 0.1152
−53.2
−53.4
−53.6
−53.8
−54
−54.2
−54.4
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
×10⁻¹⁵
0
−10
−20
−30
−40
−50
pull
Entries 25
Mean 12.5
Std Dev 7.211

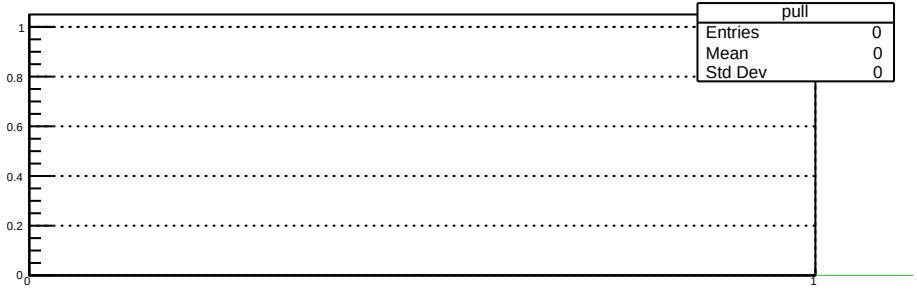

pull1D
Entries 25
Mean −4.933e−14
Std Dev1.037e−21
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

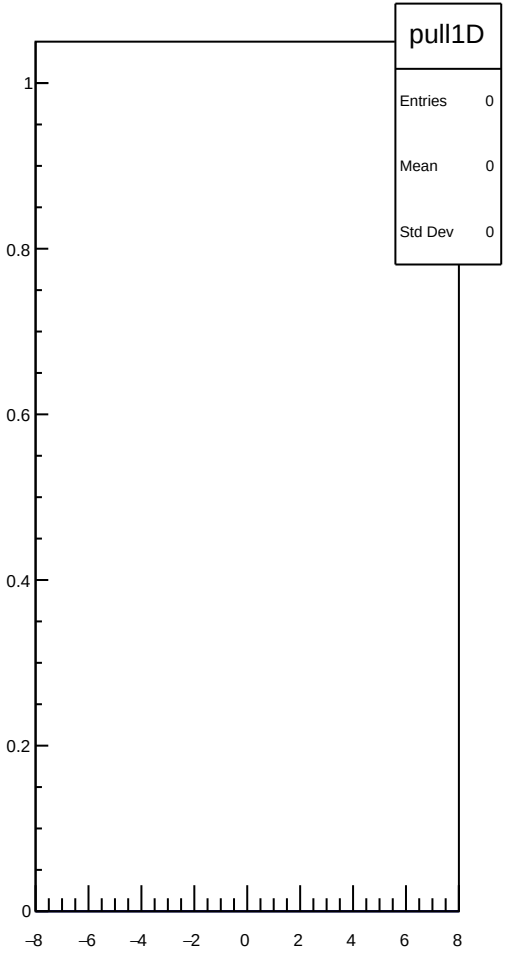

dit_sam8_4eY_slope vs run
χ² / ndf 0 / 24
p0 52.09 ± 0.1282
52.8
52.6
52.4
52.2
52
51.8
51.6
51.4
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0


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


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


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


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


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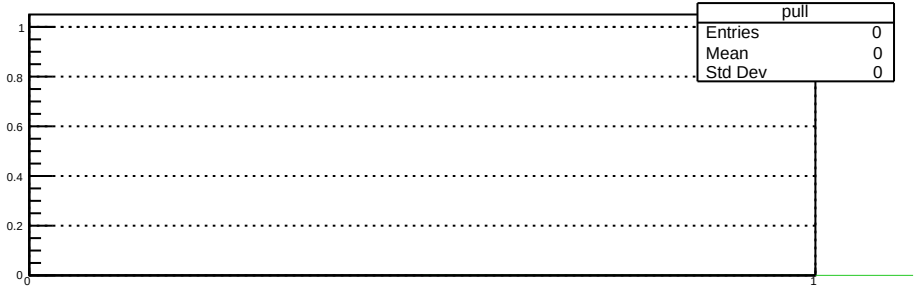
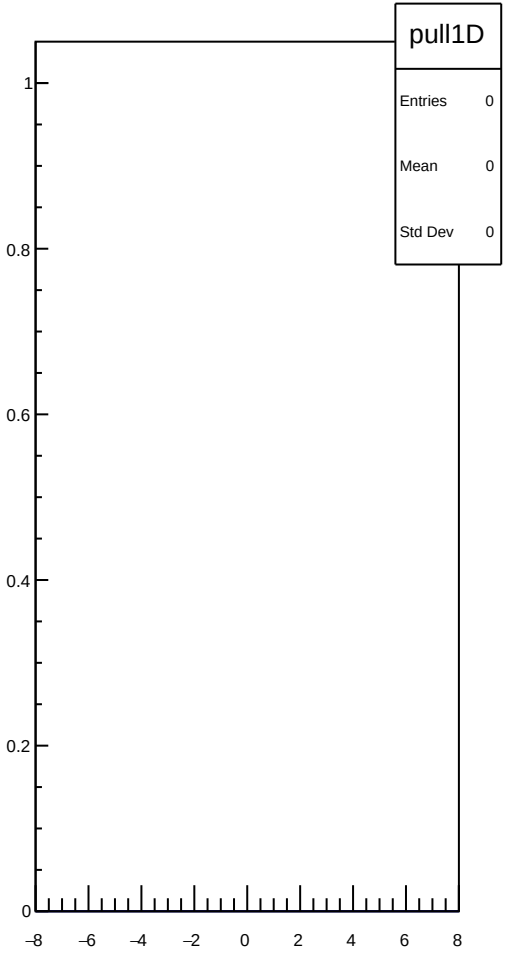
2
4
6
8


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


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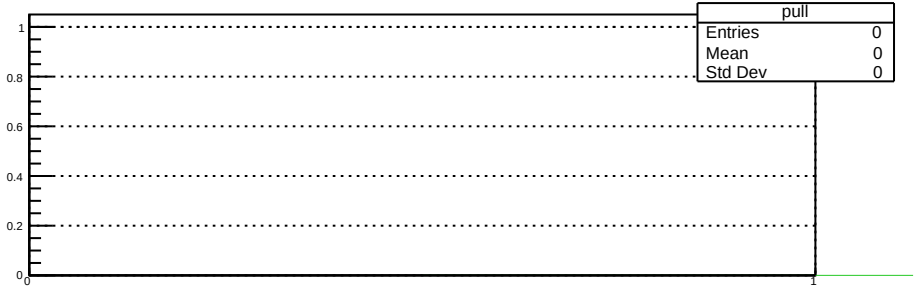
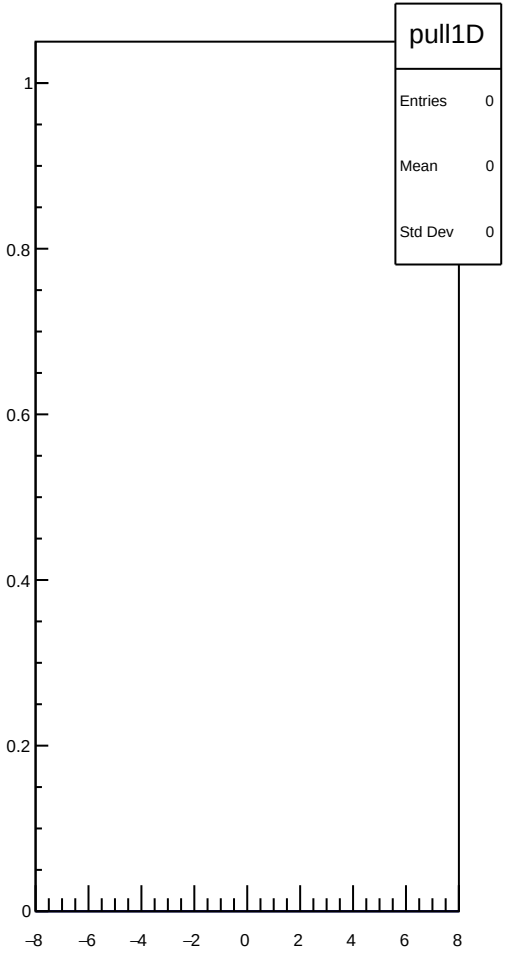
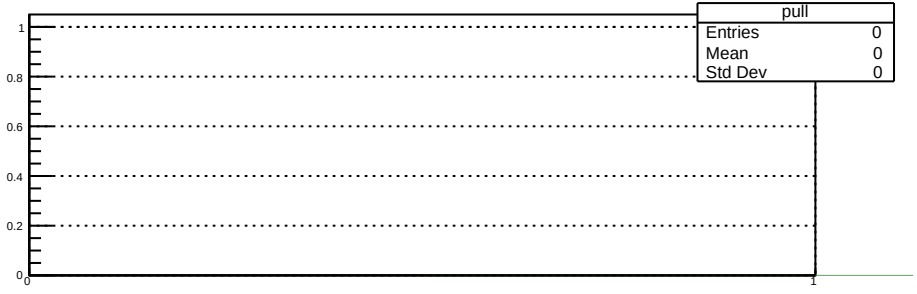
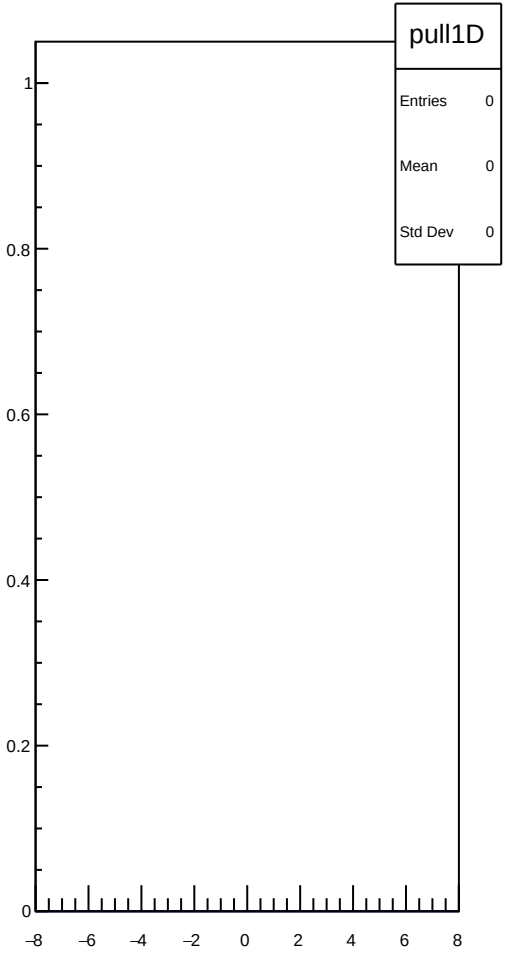
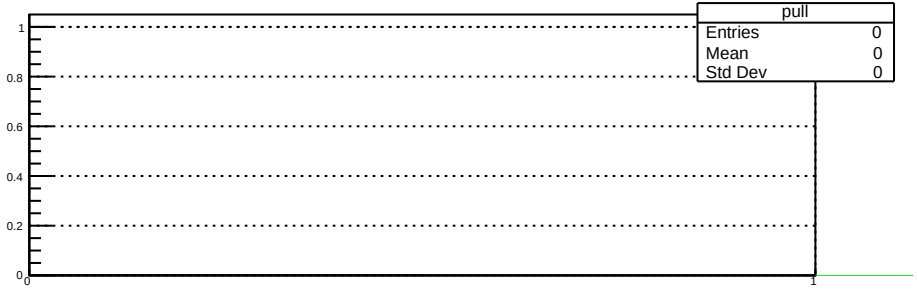
2
4
6
8

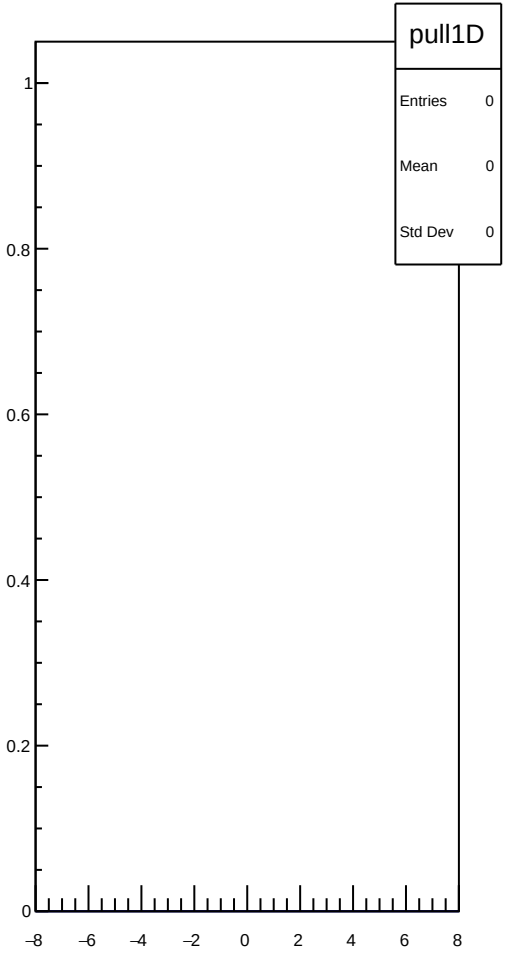

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1


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


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


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


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


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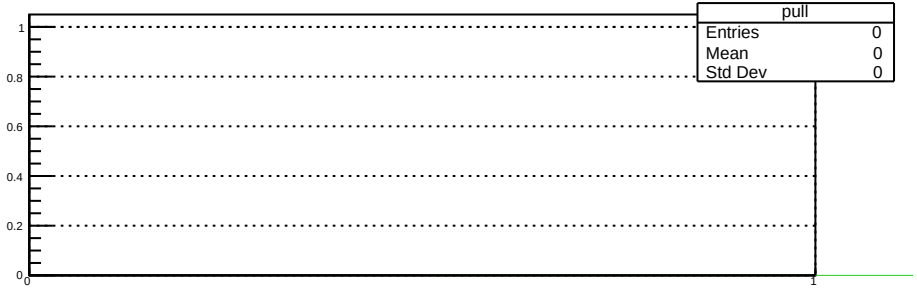
0
2
4
6
8


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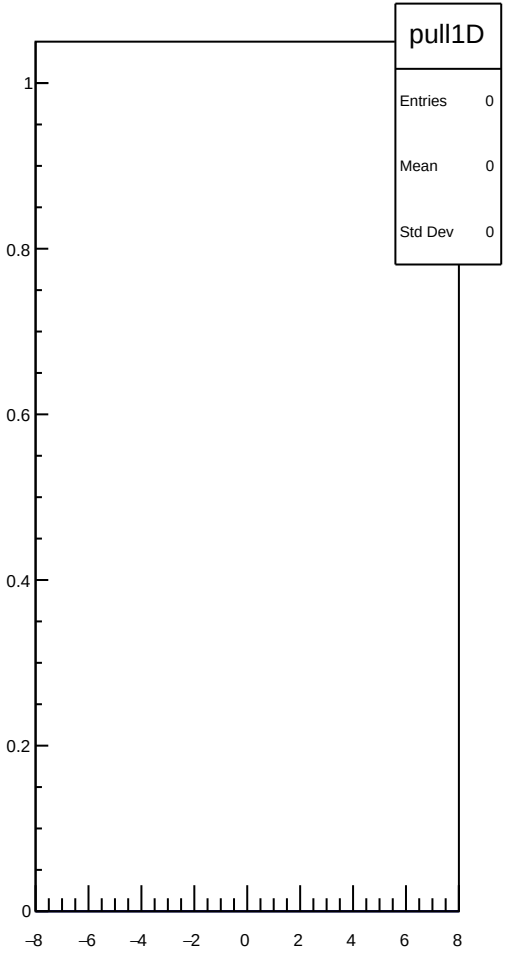
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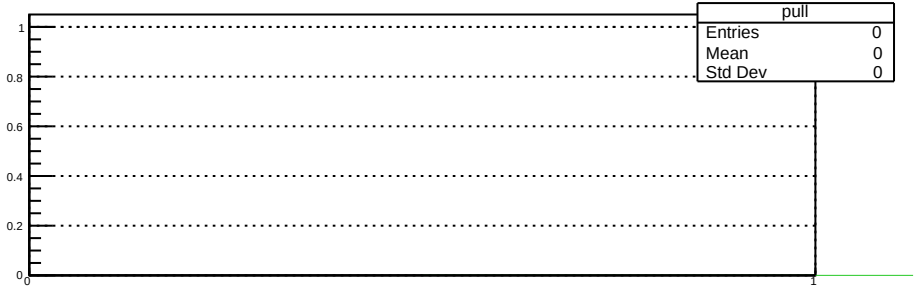
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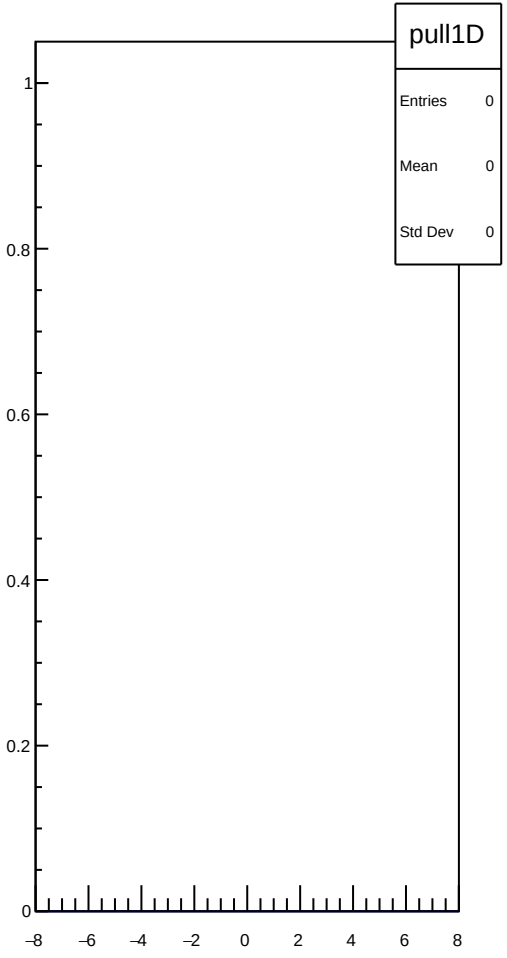
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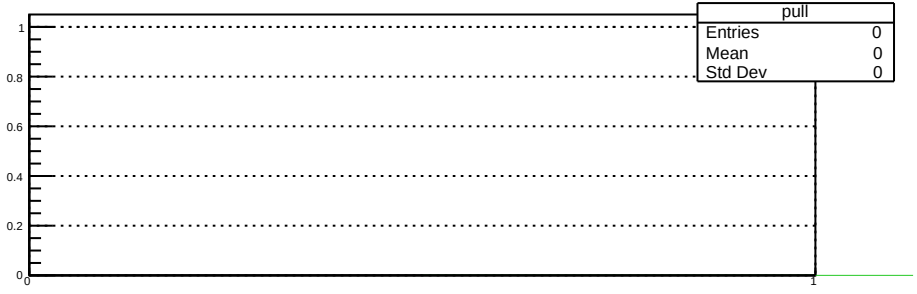
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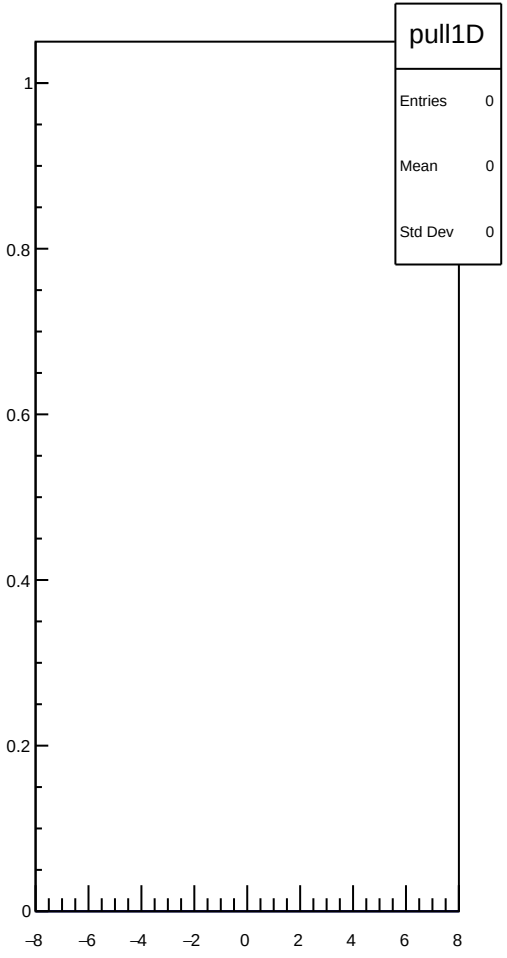
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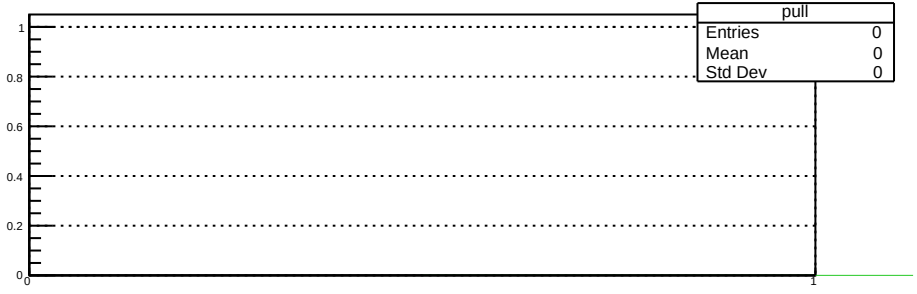
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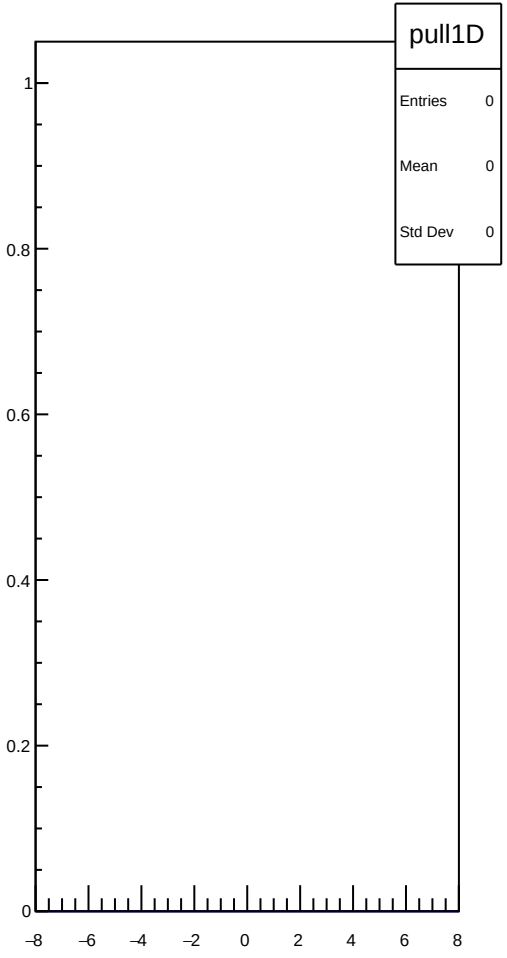
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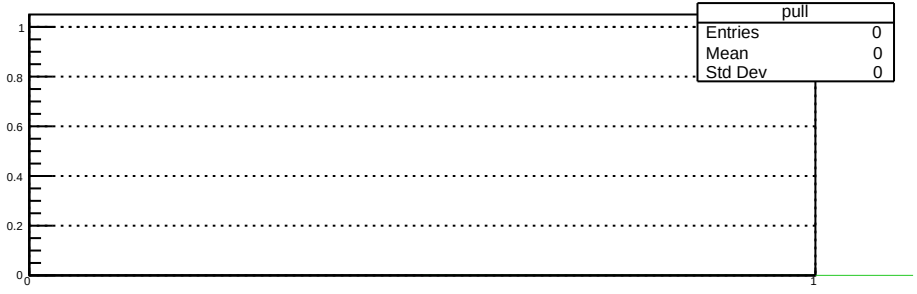
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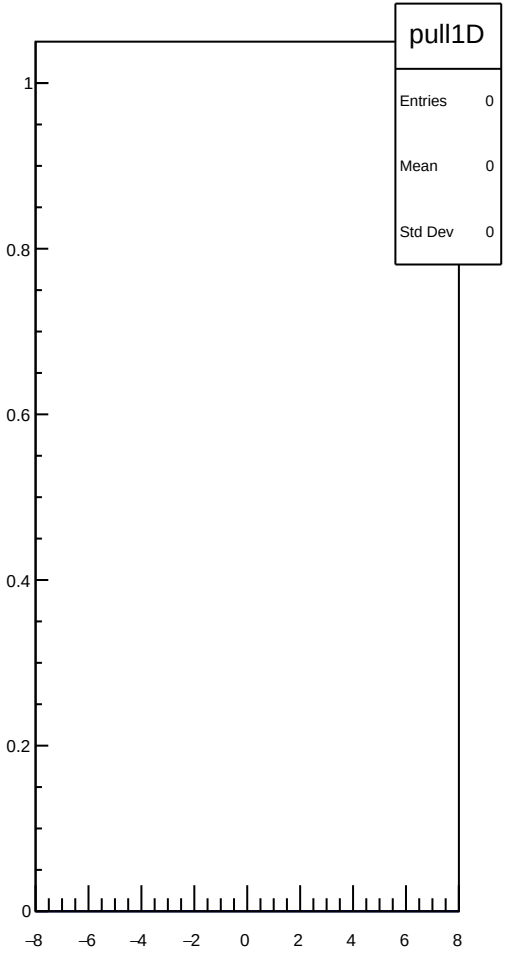
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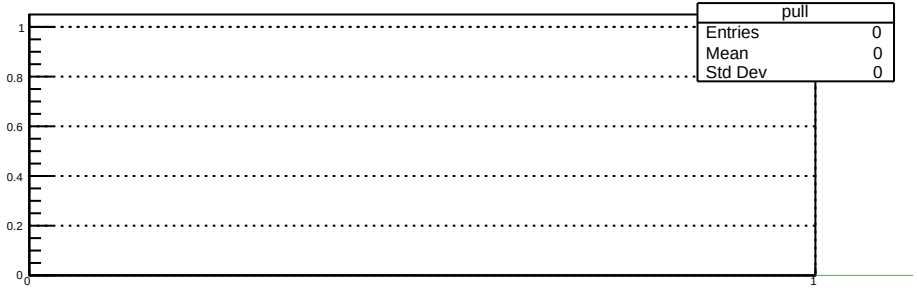
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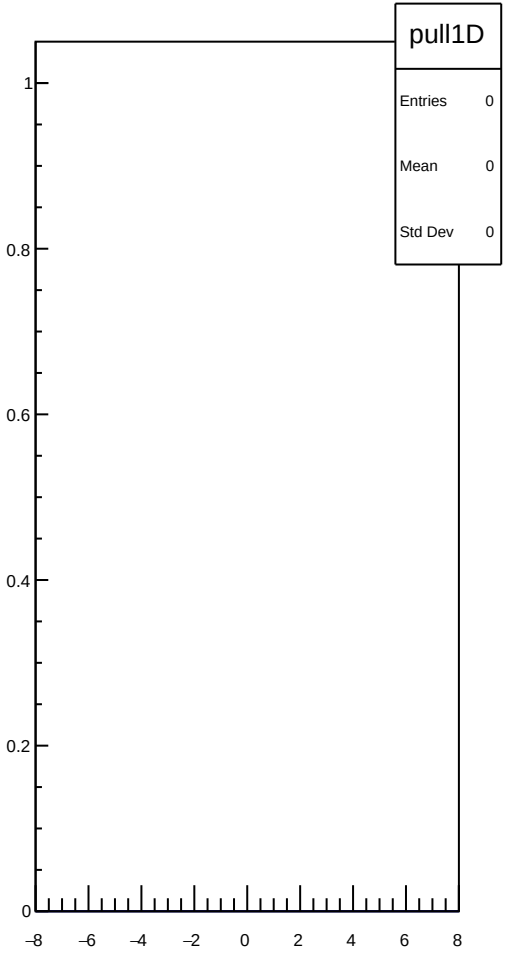
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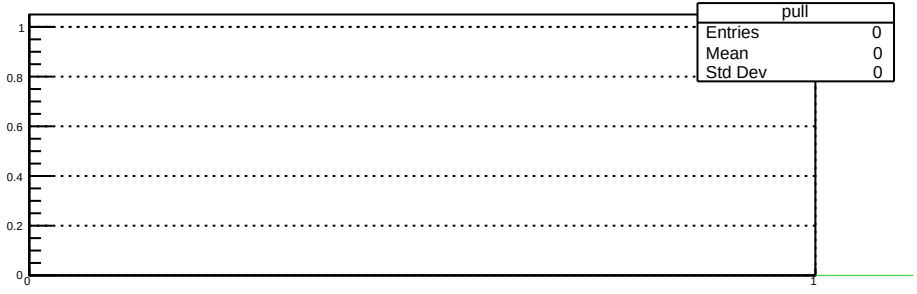
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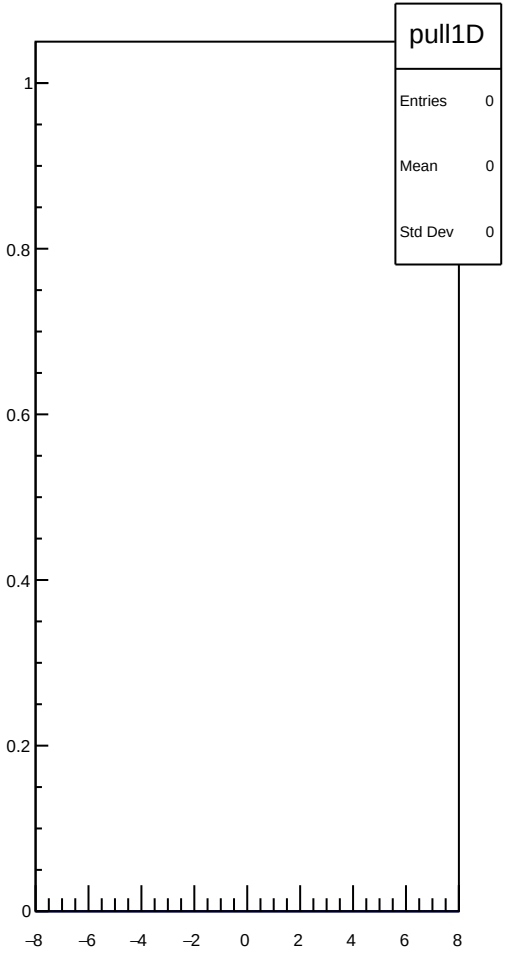
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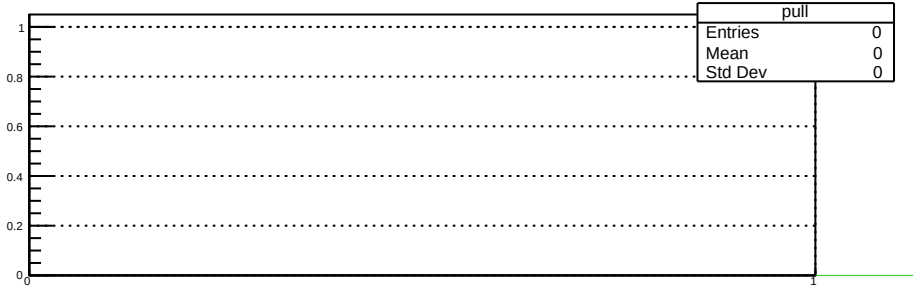
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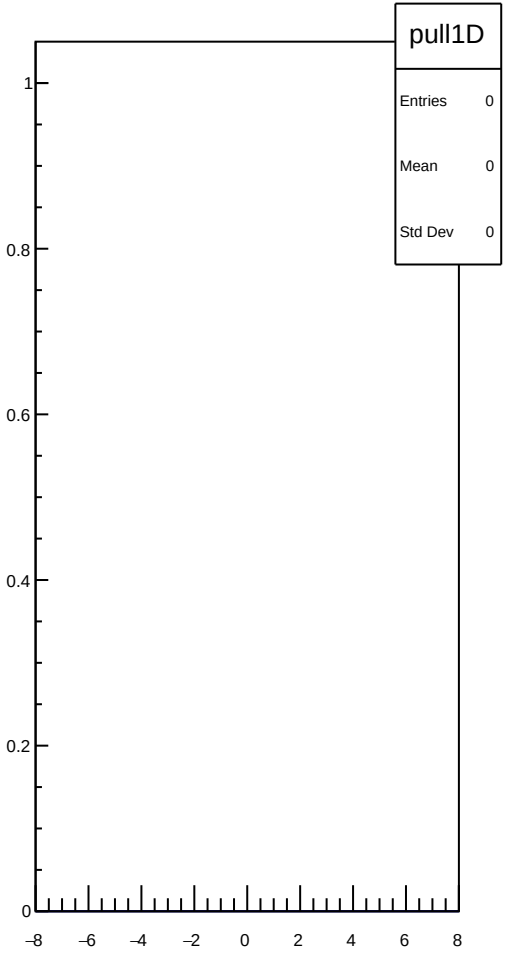
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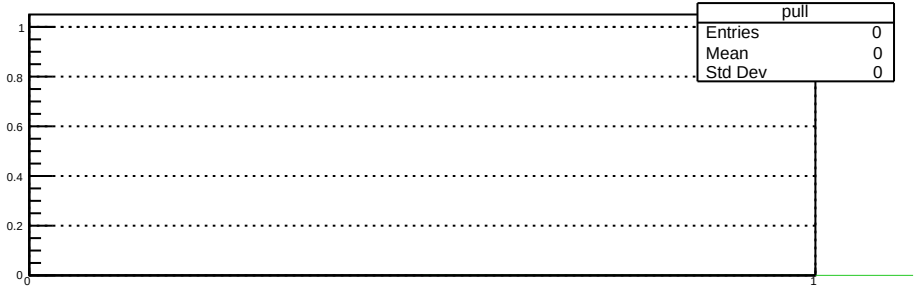
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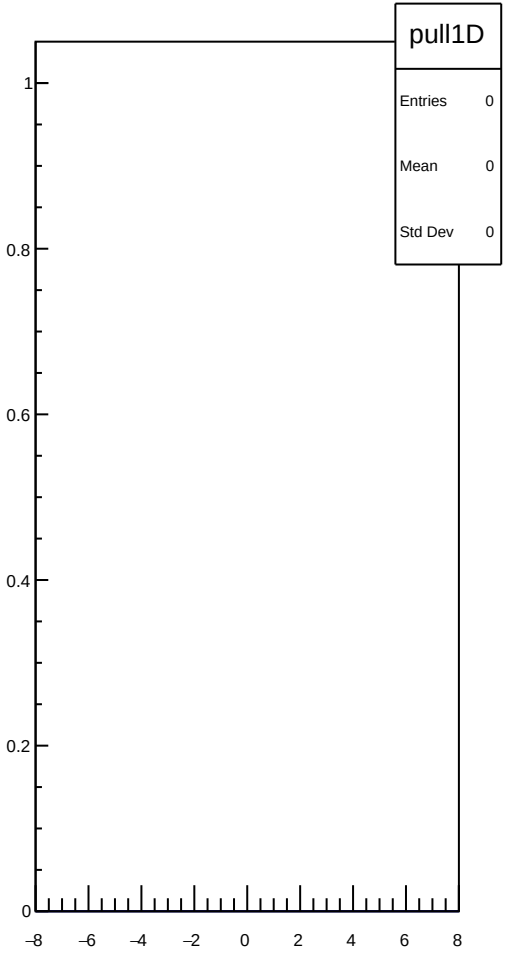
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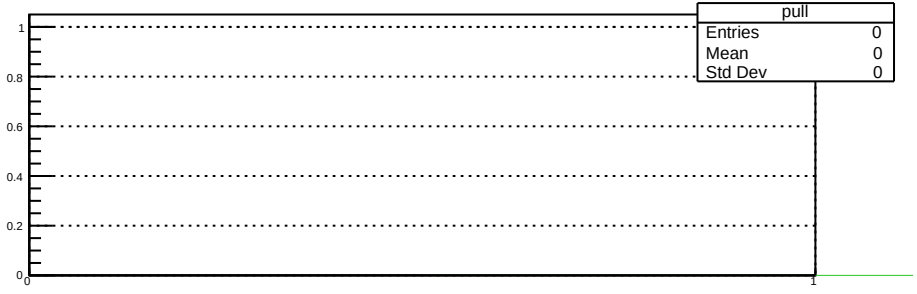
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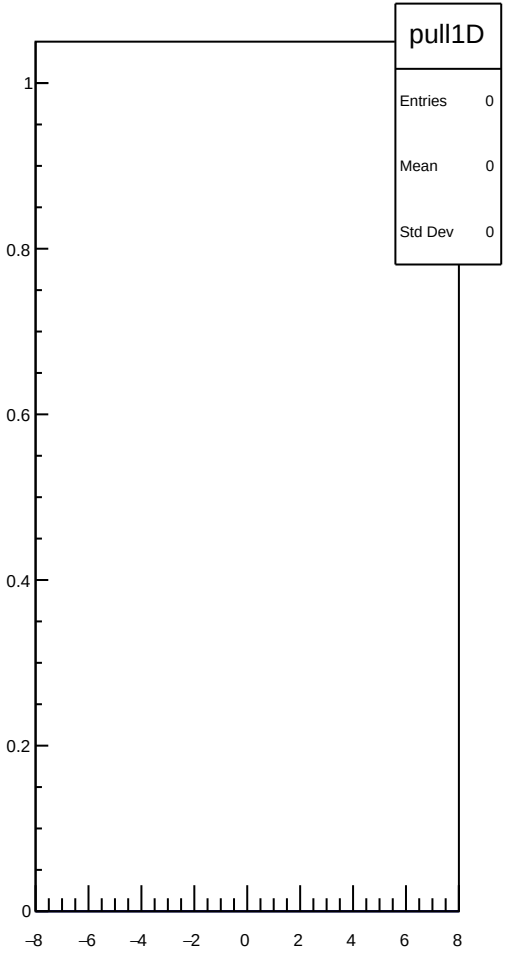
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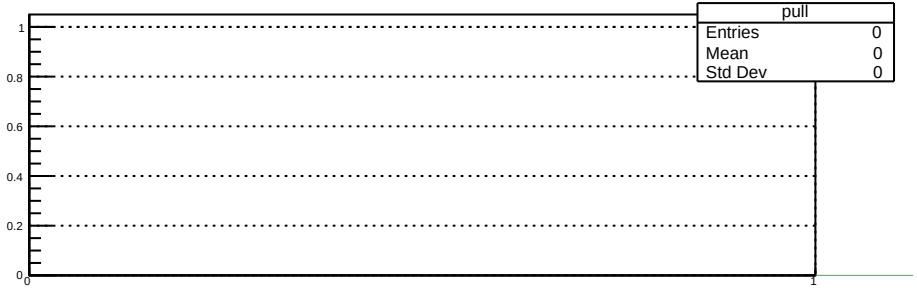
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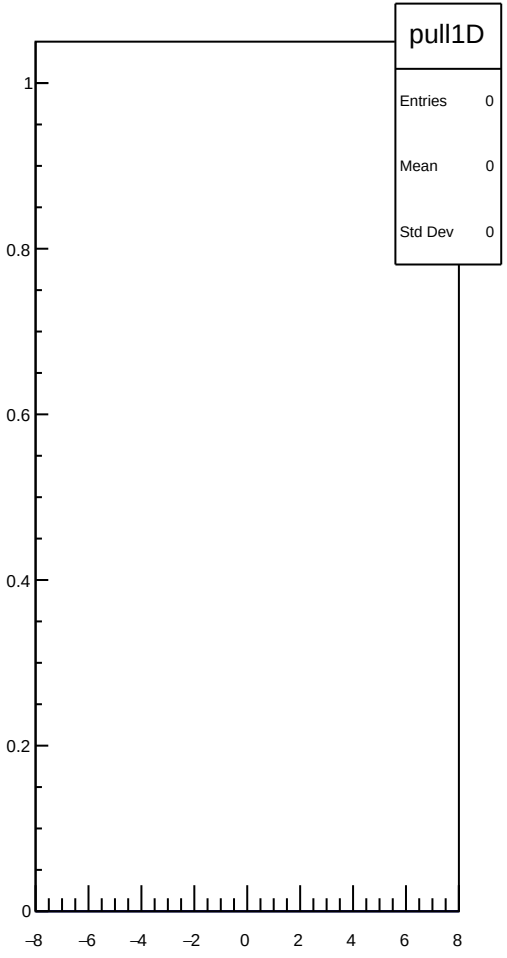
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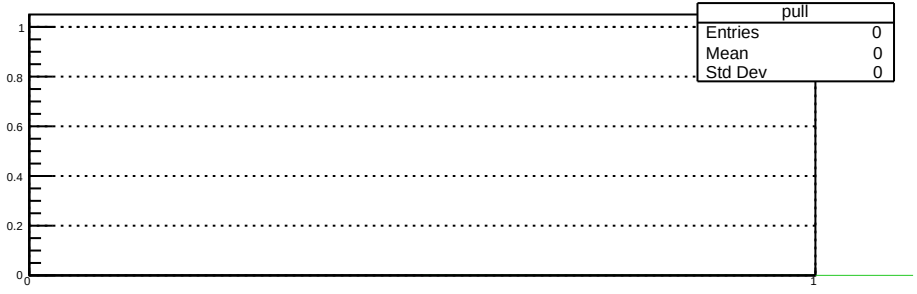
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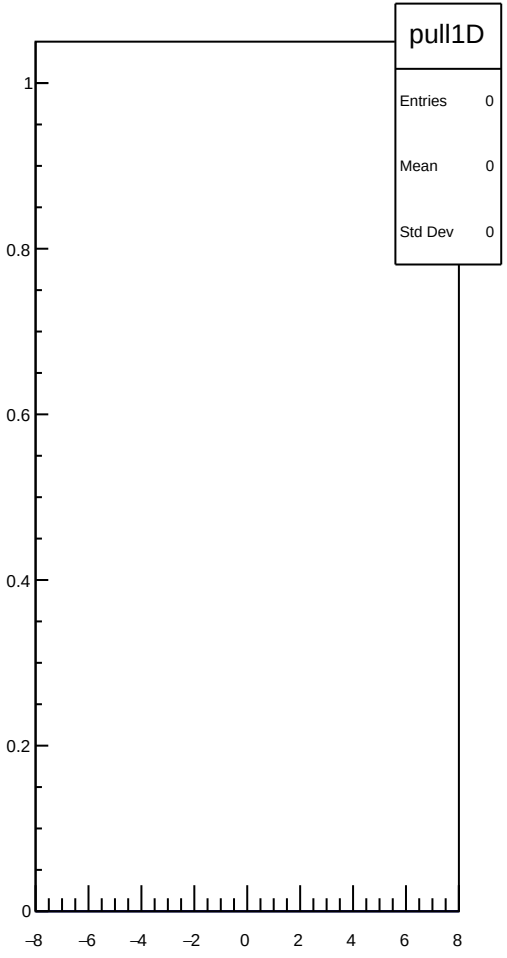
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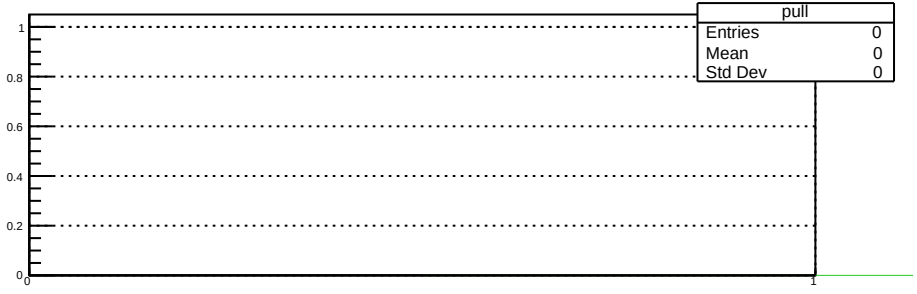
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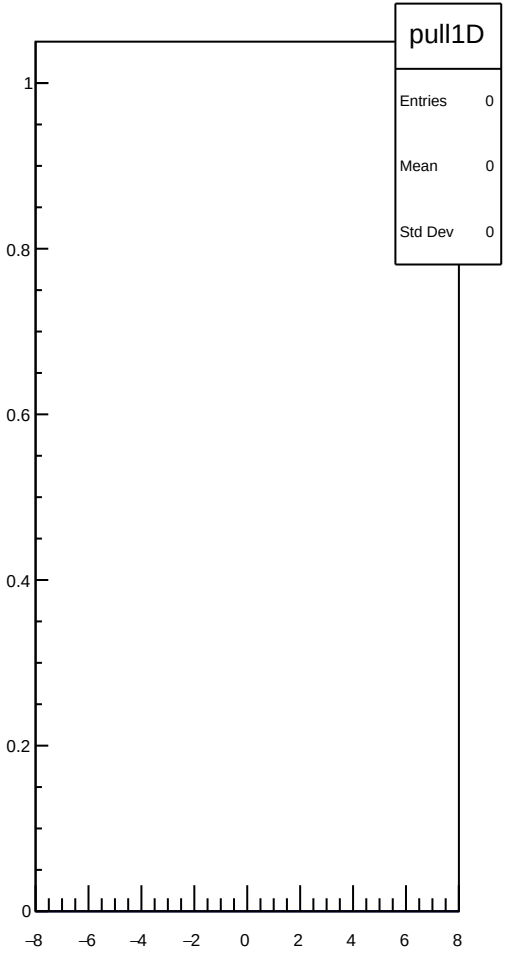
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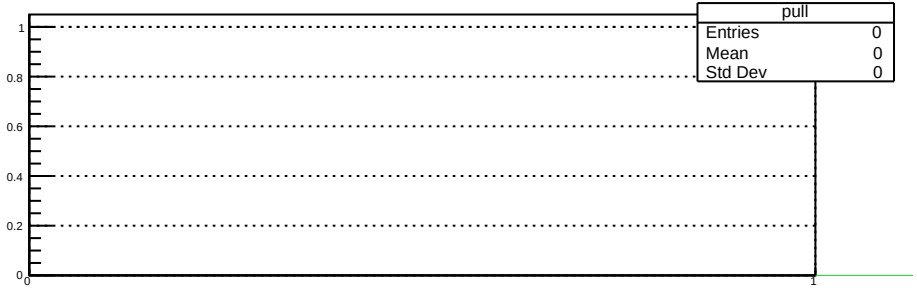
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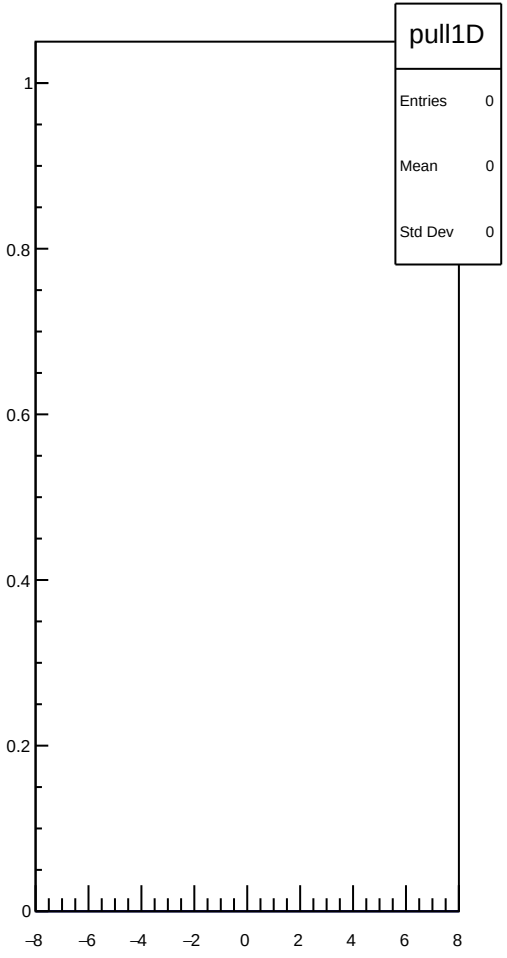
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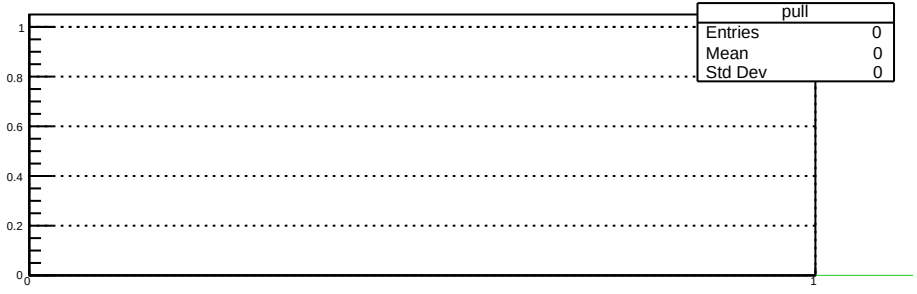
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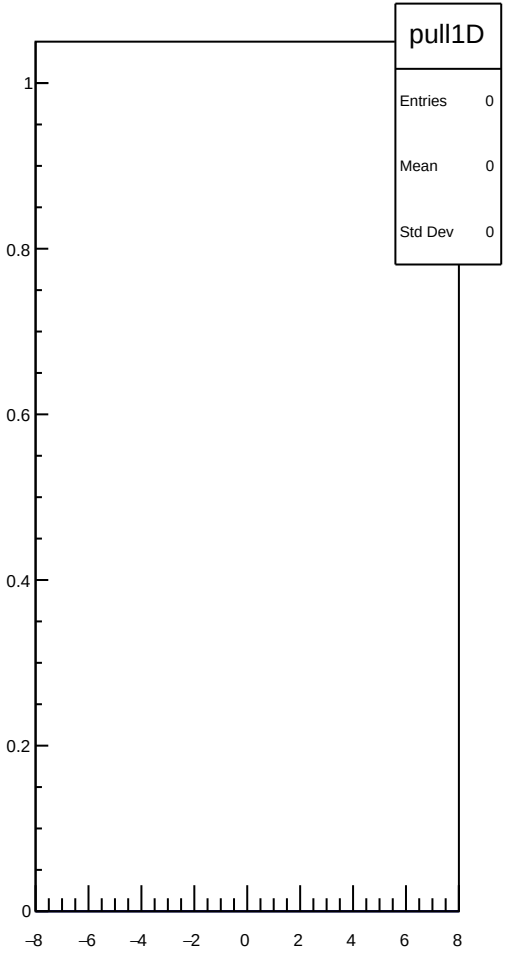
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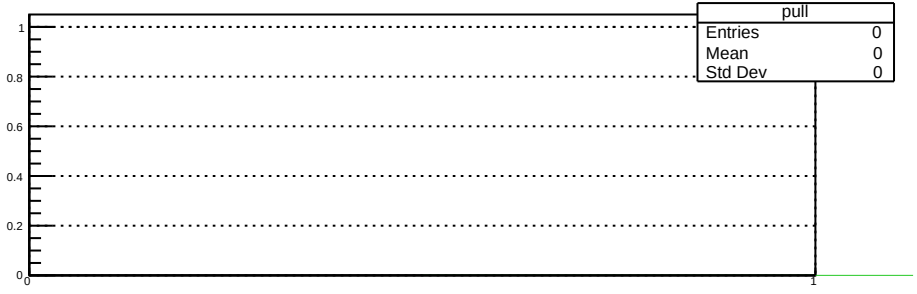
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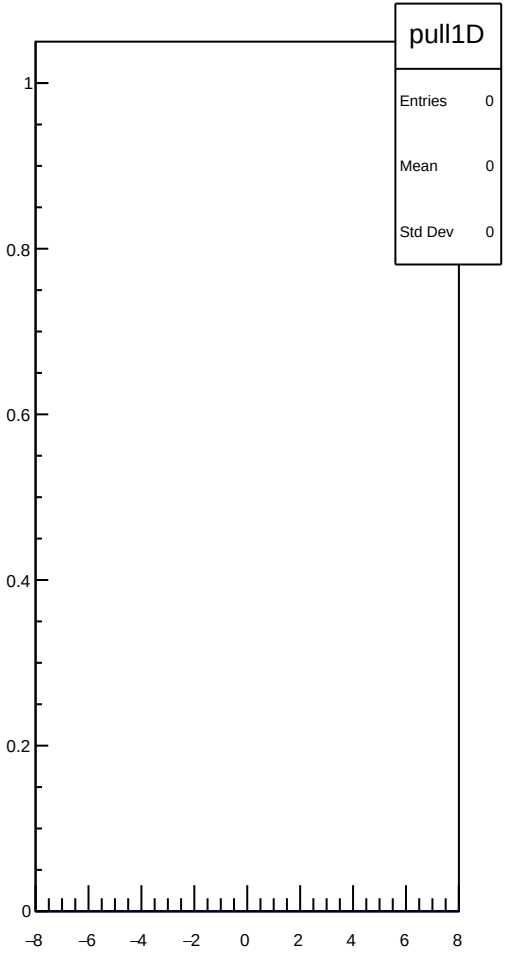
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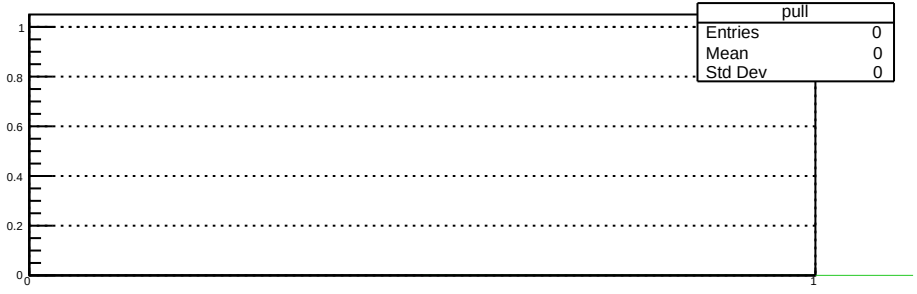
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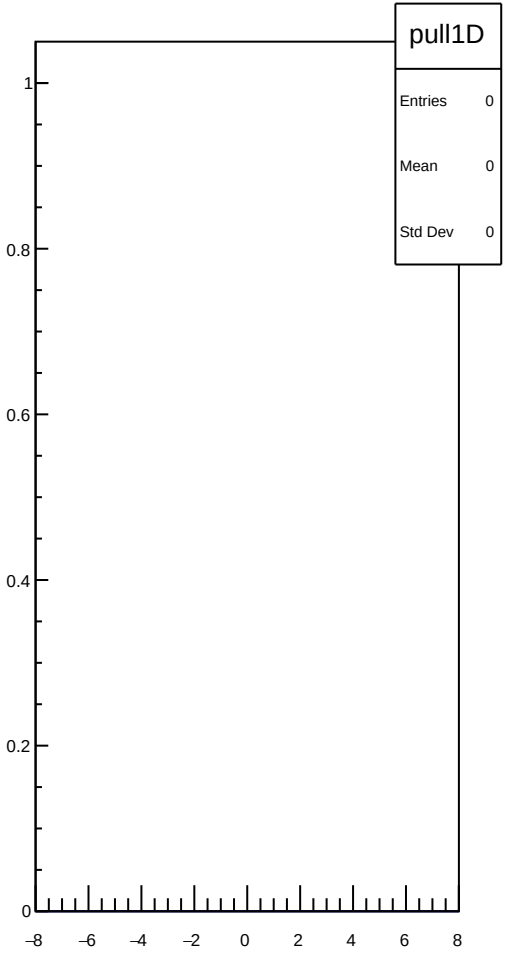
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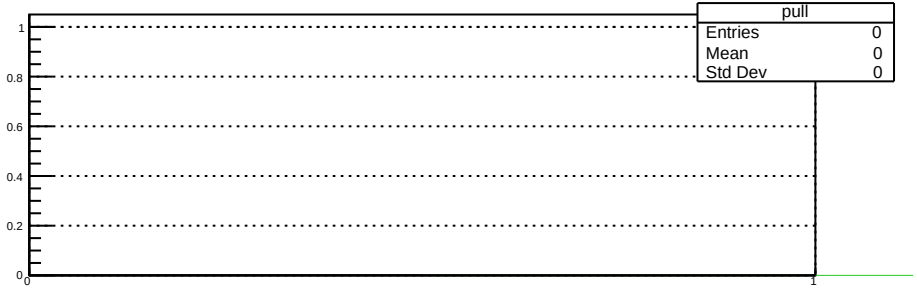
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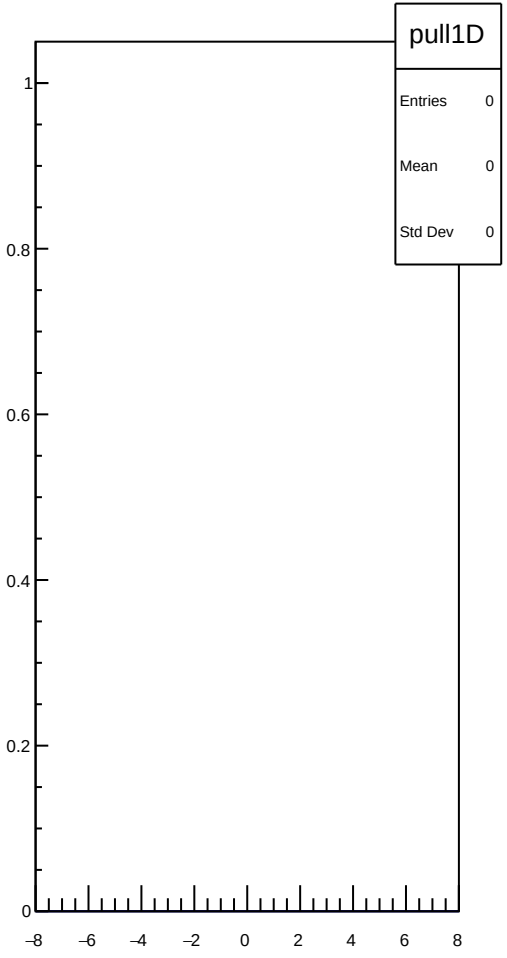
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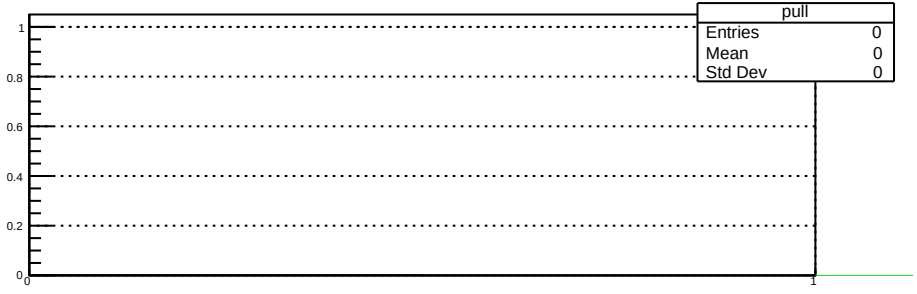
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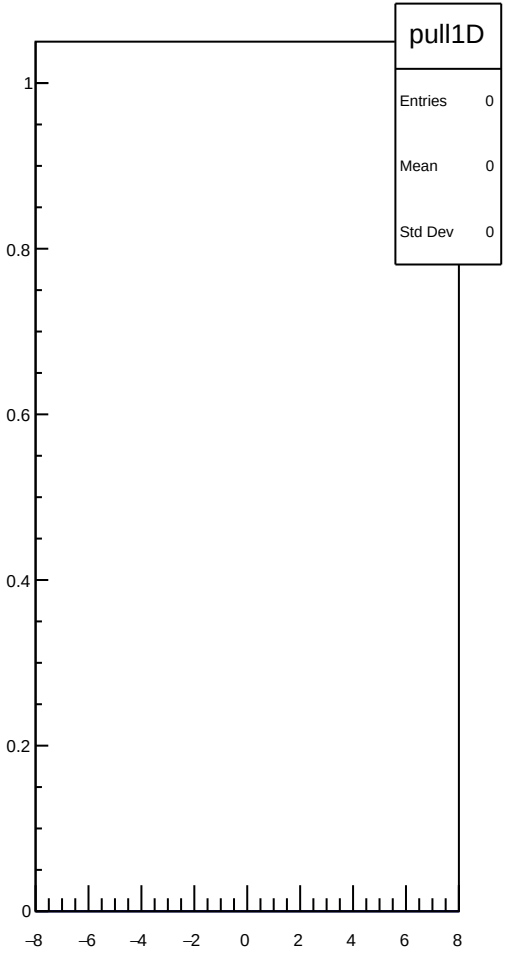
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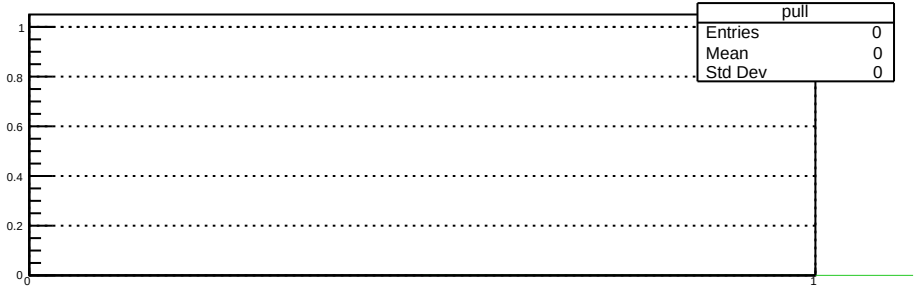
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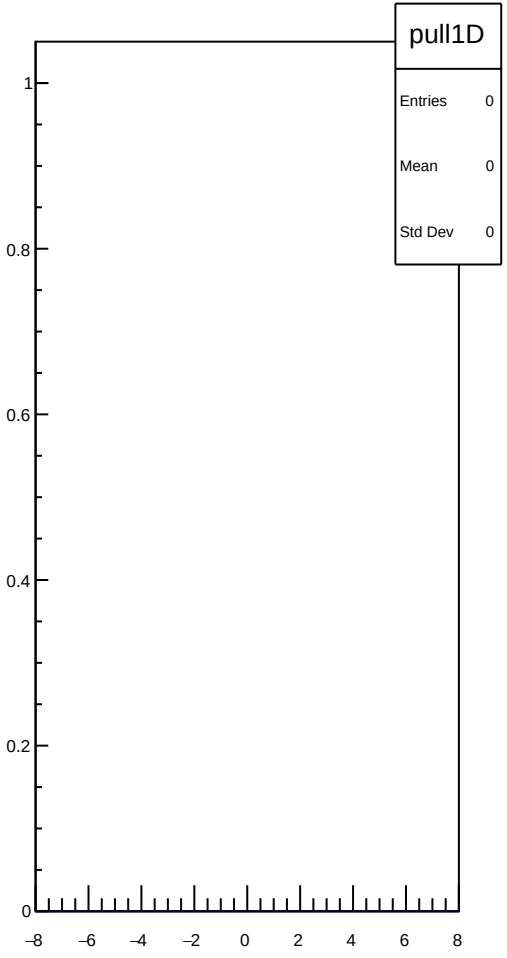
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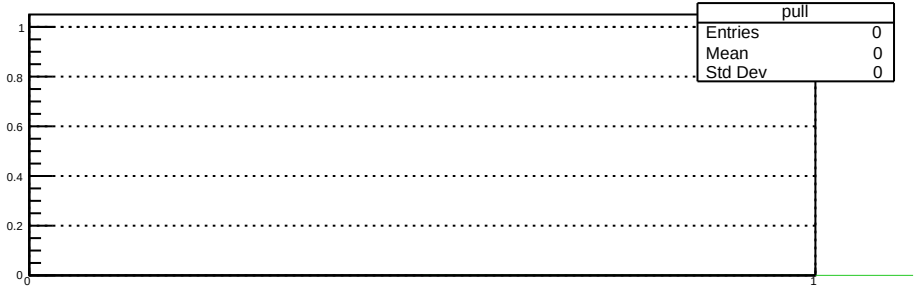
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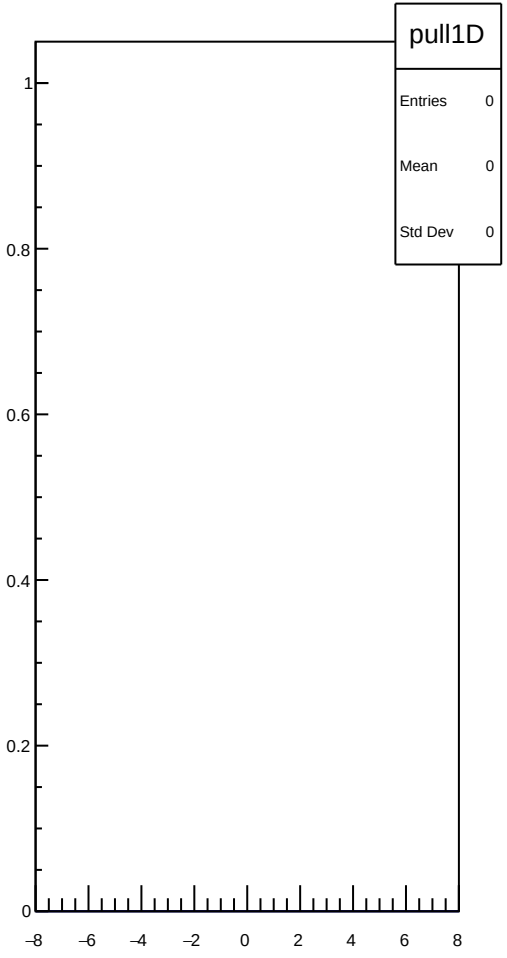
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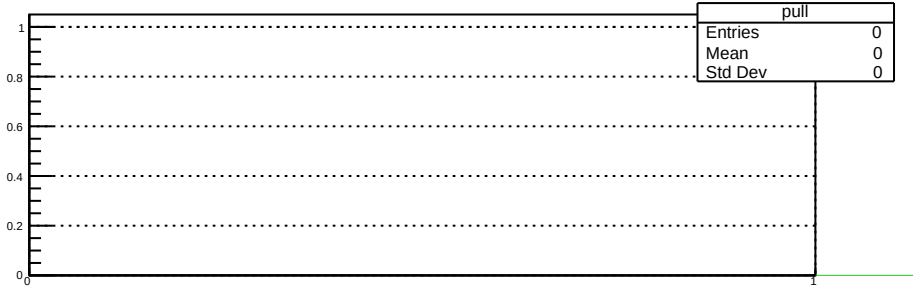
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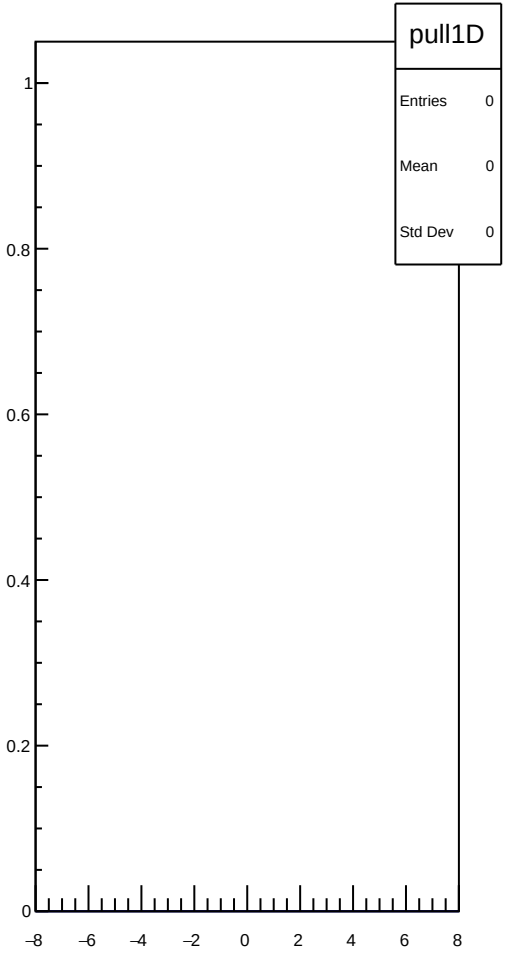
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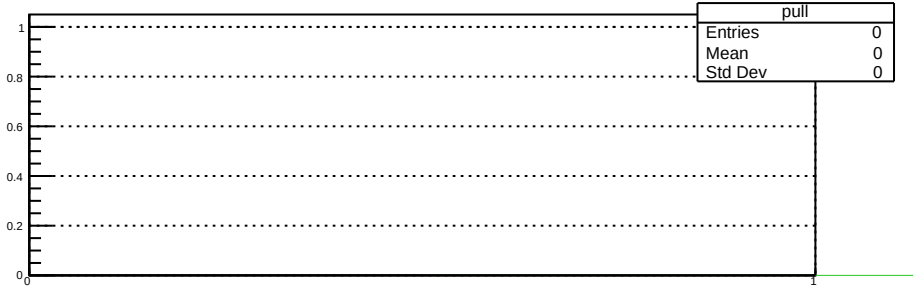
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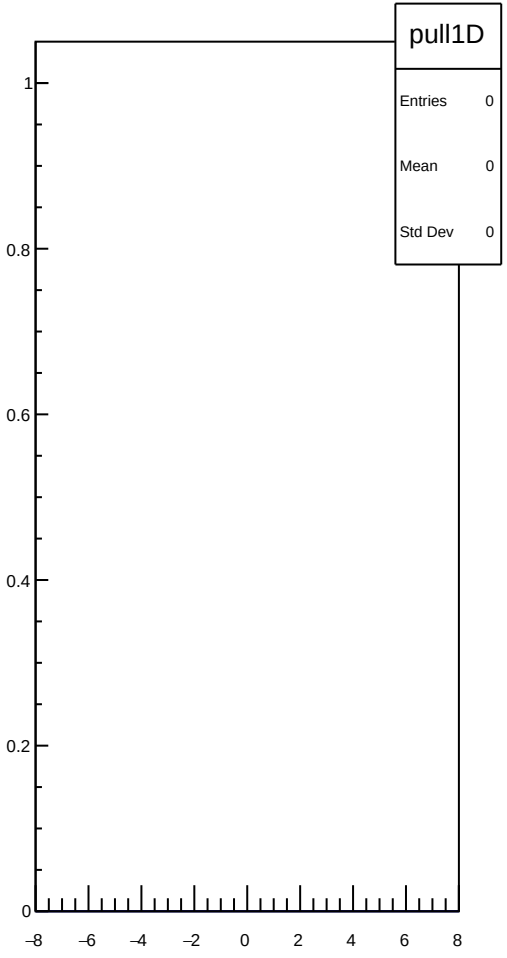
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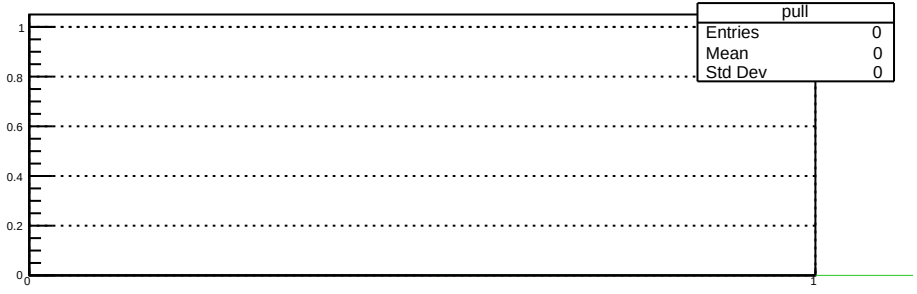
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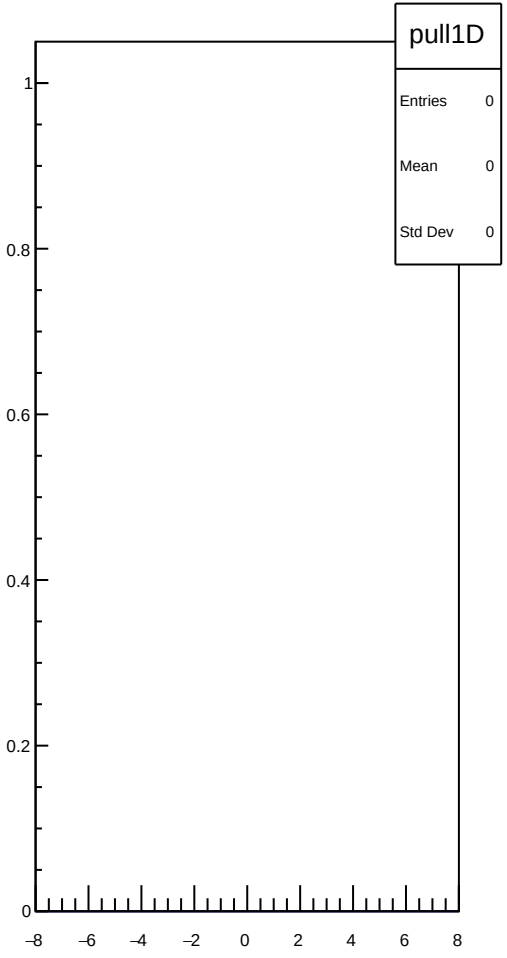
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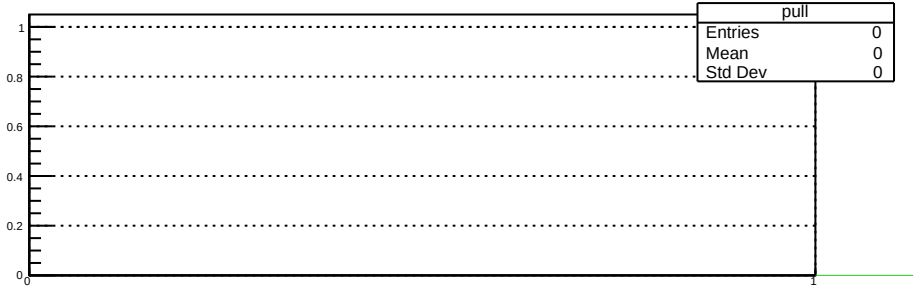
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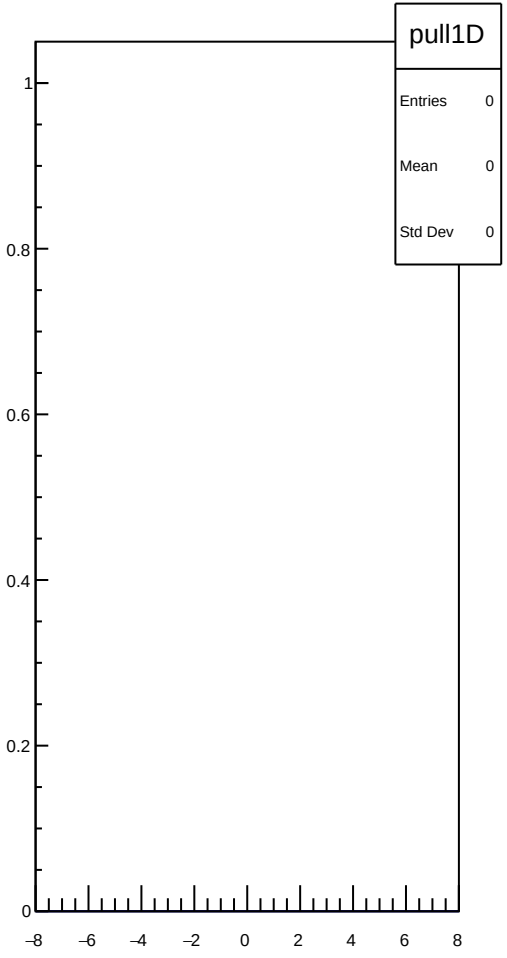
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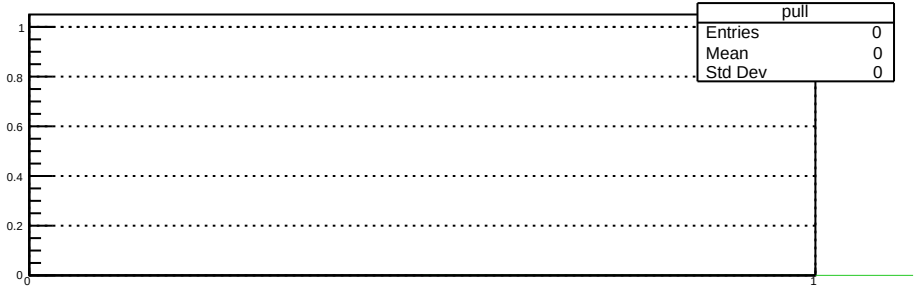
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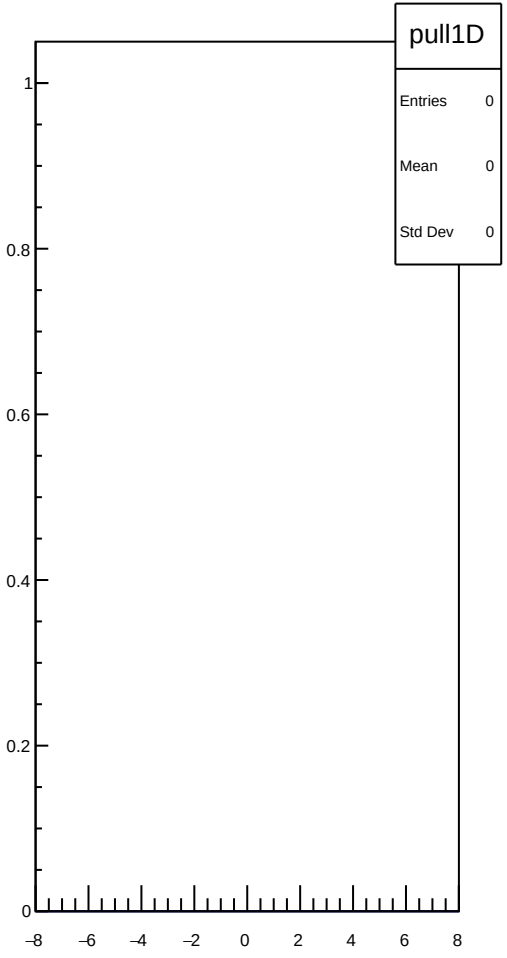
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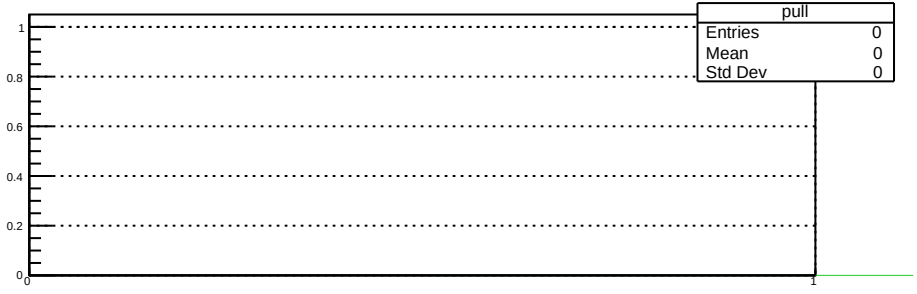
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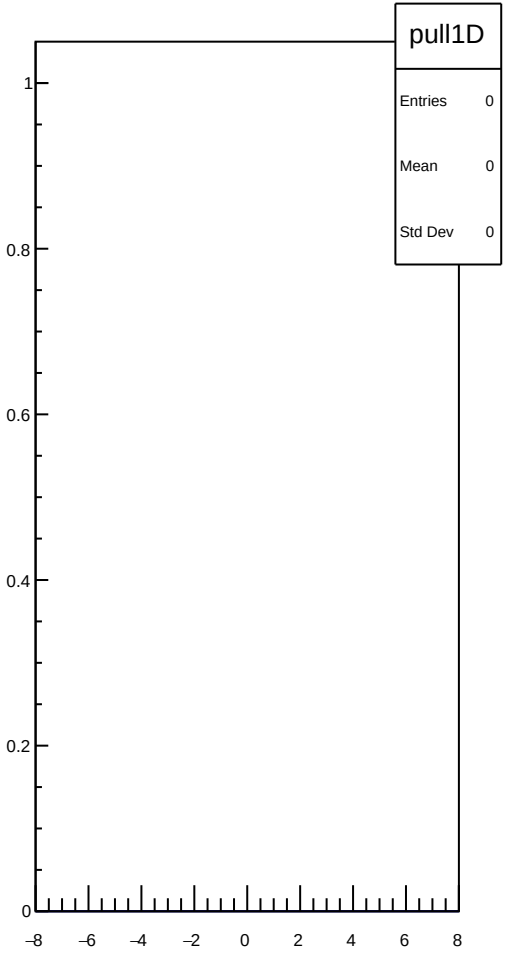
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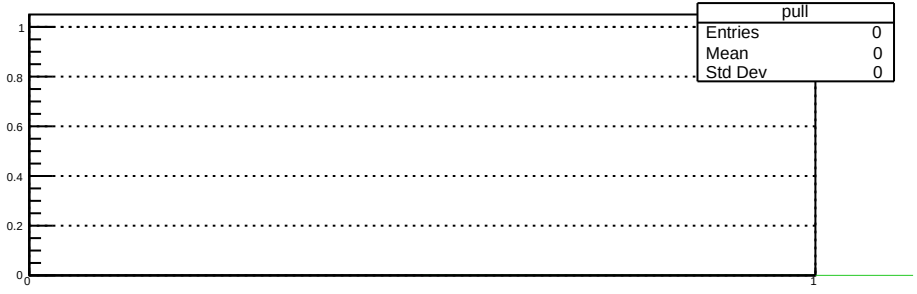
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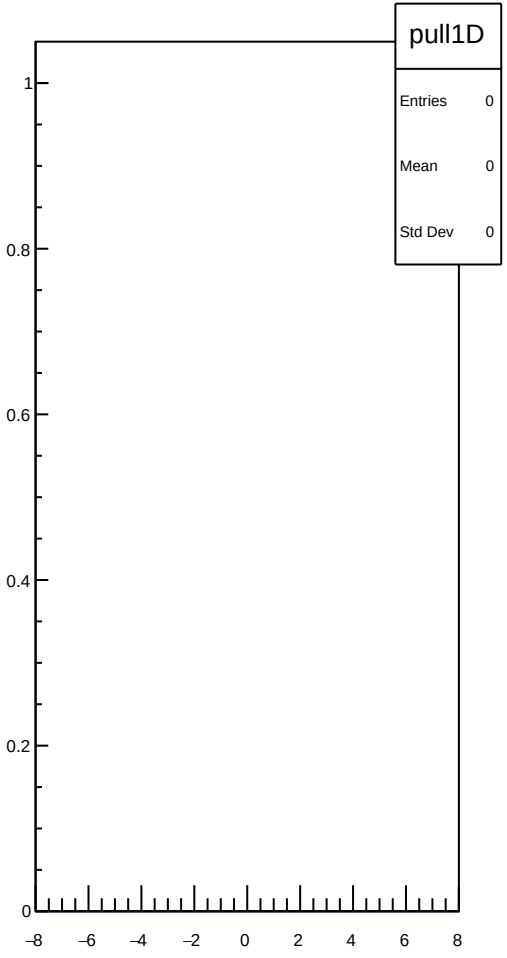
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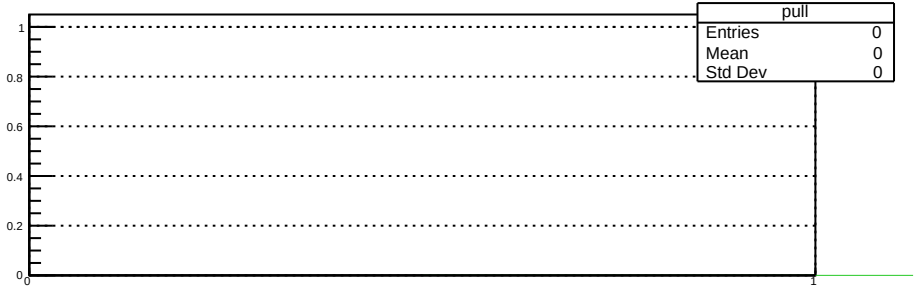
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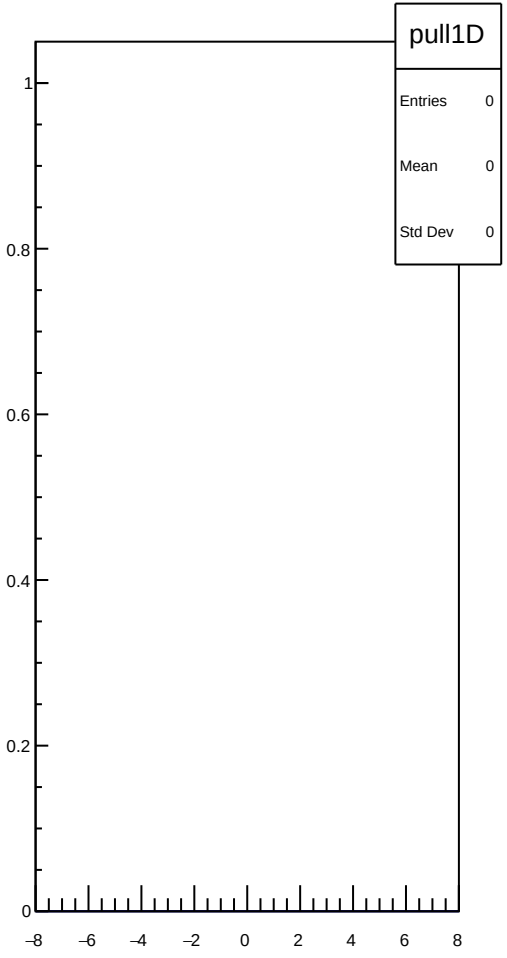
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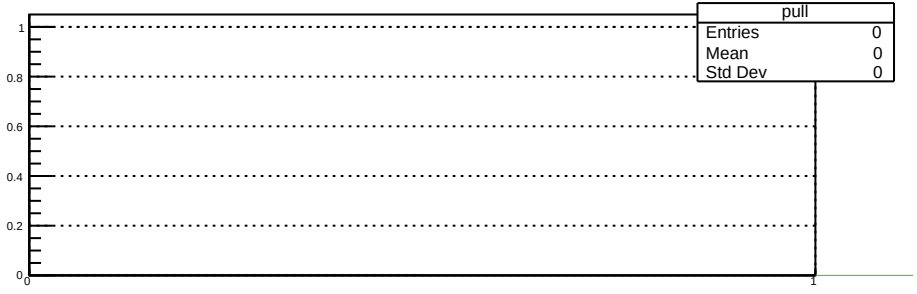
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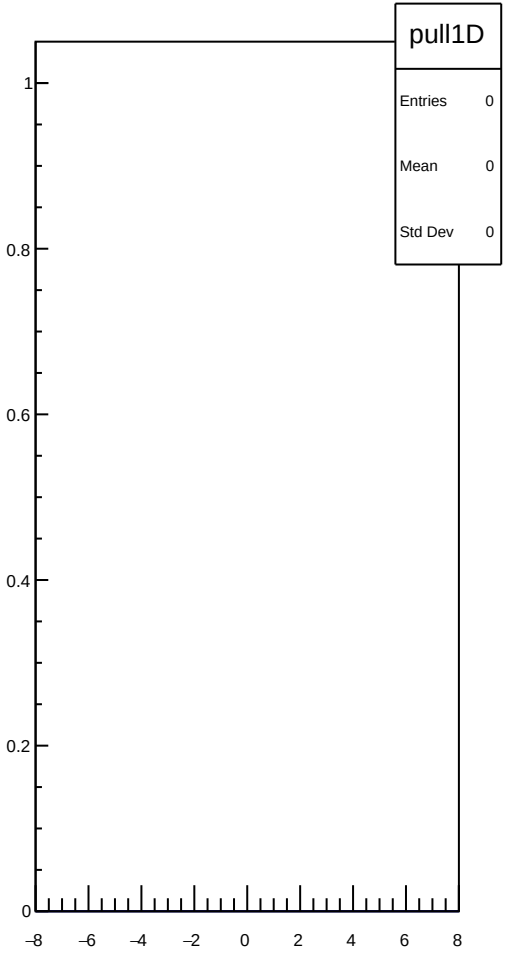
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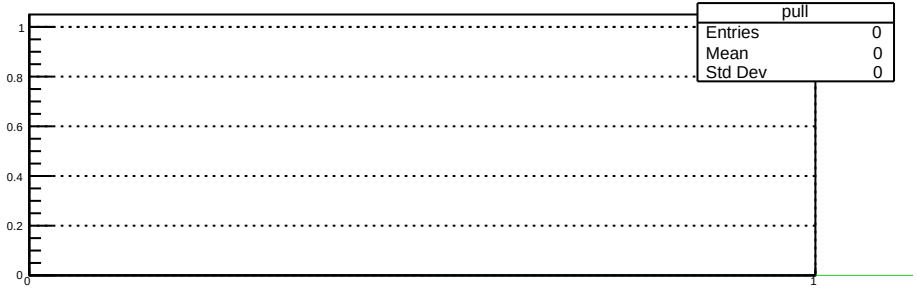
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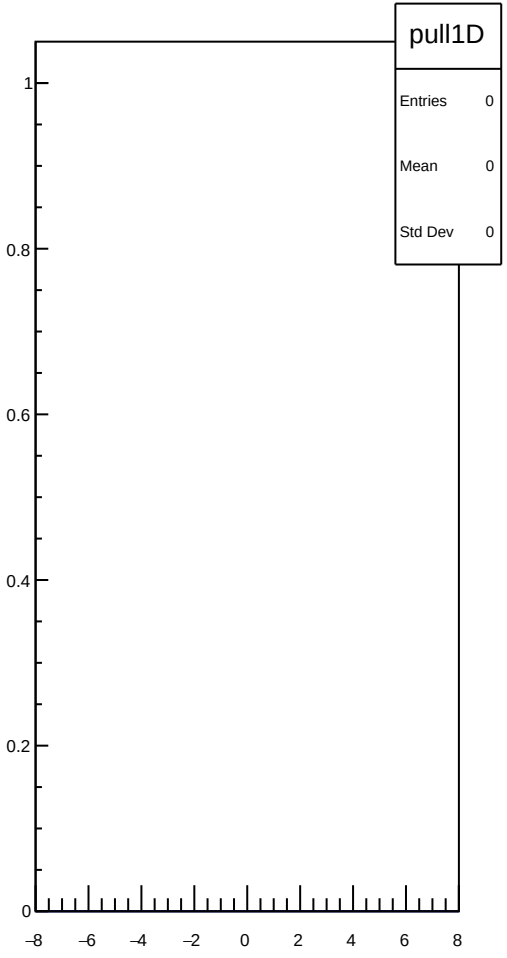
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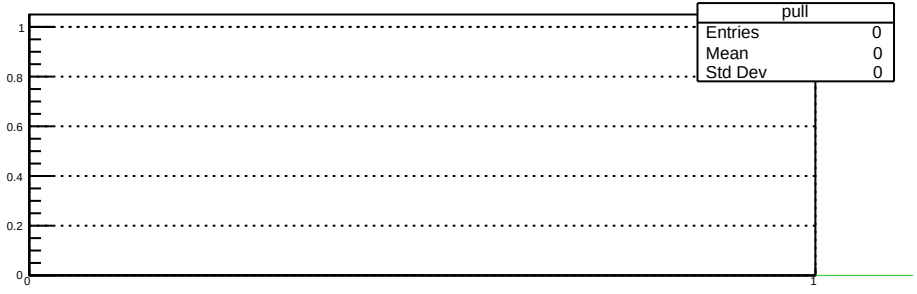
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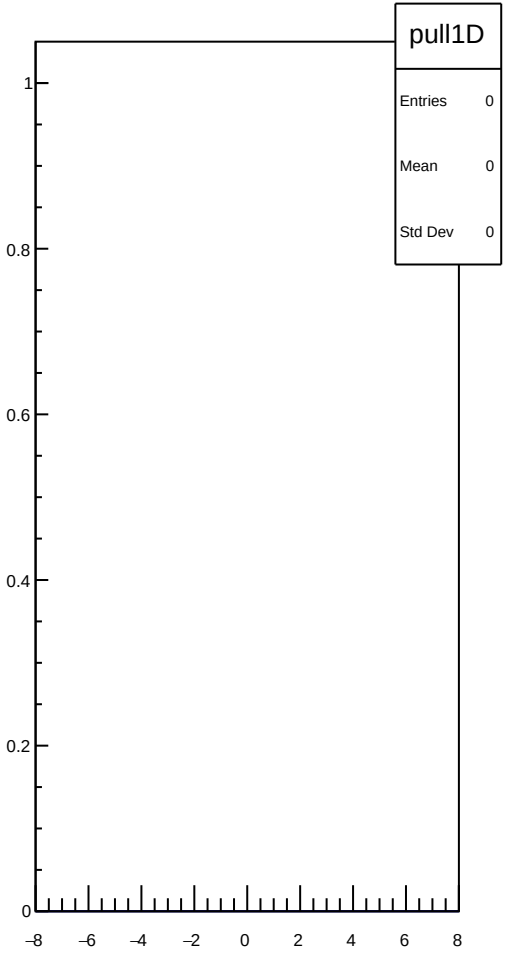
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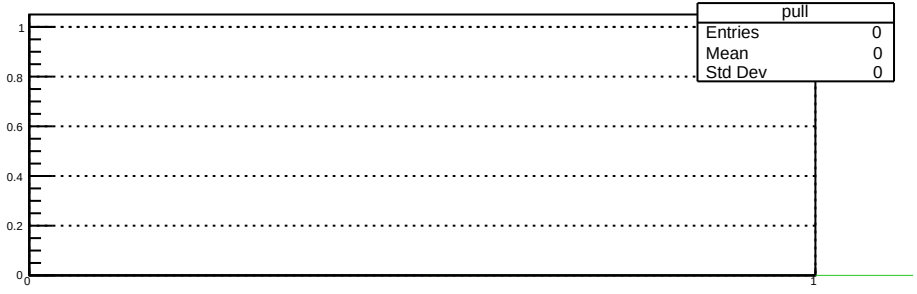
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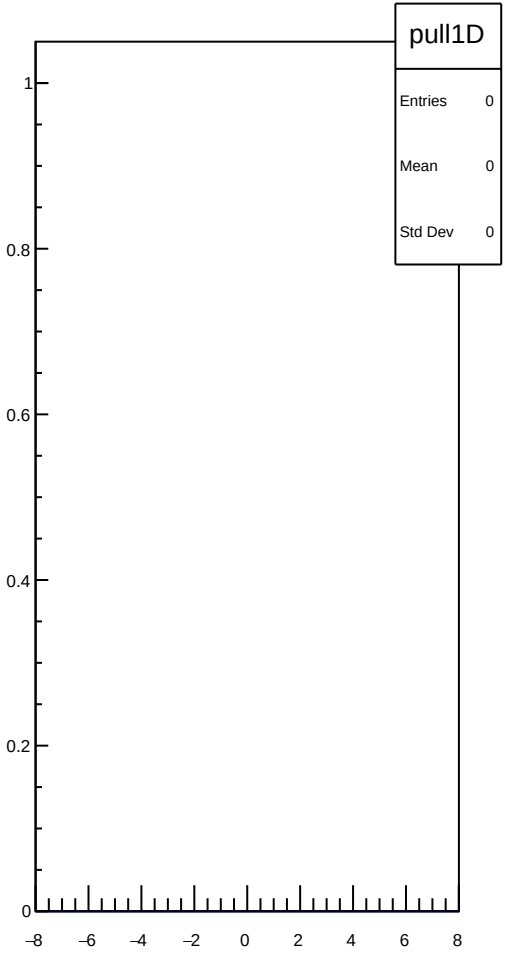
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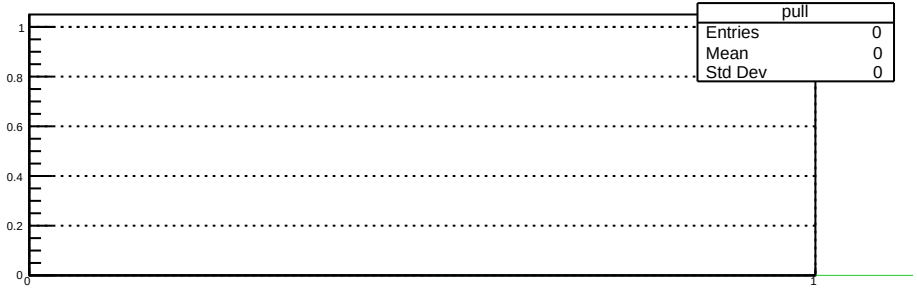
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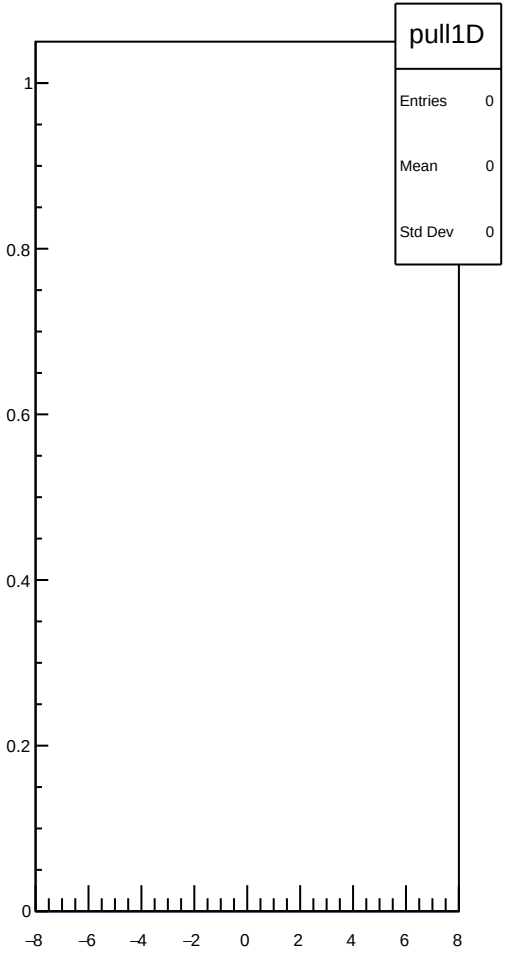
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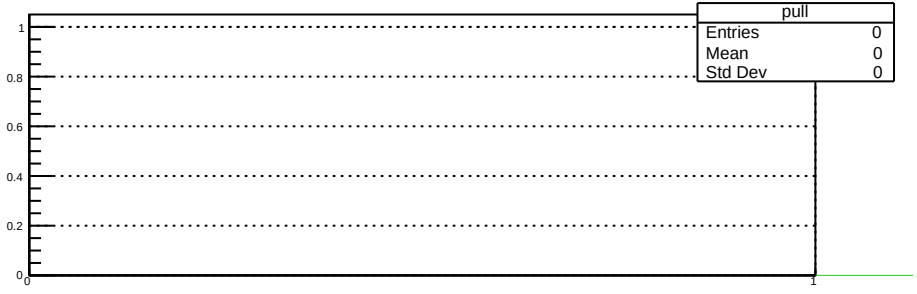
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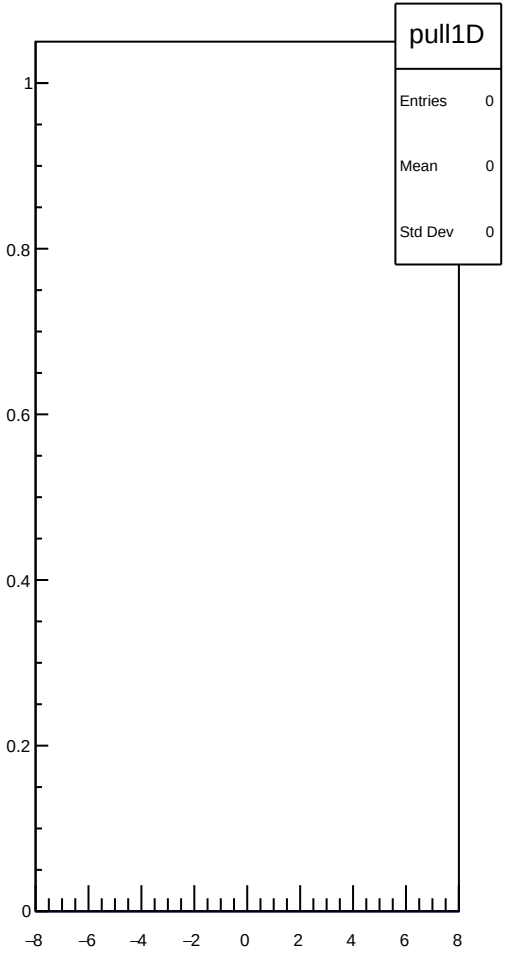
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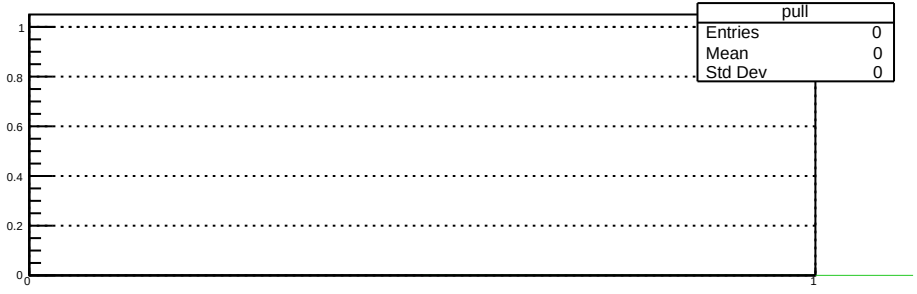
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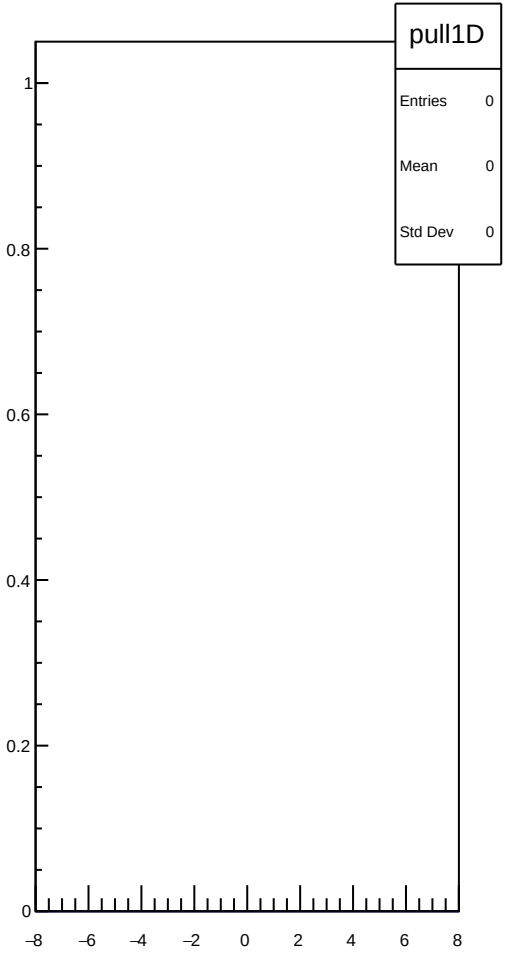
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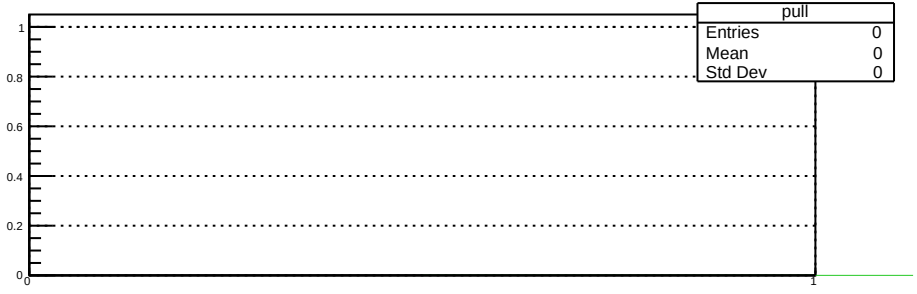
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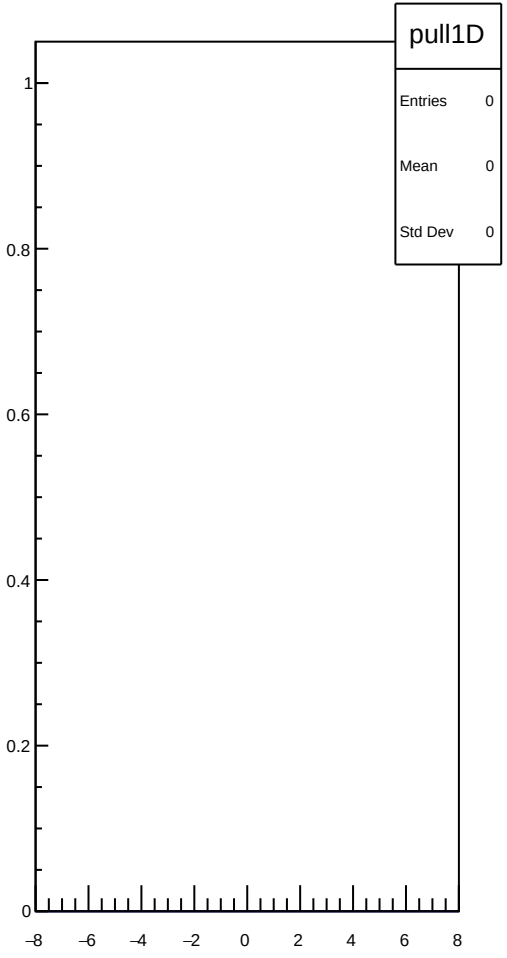
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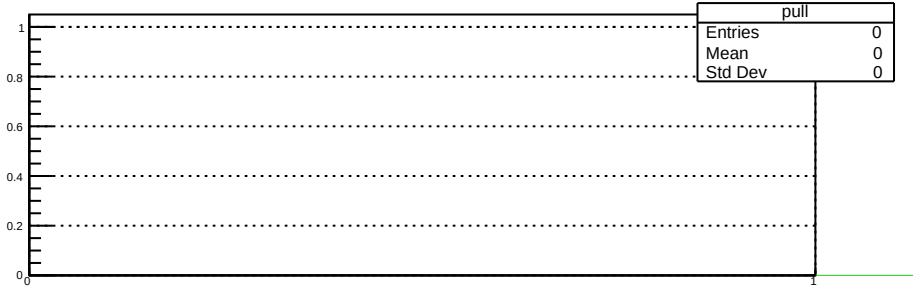
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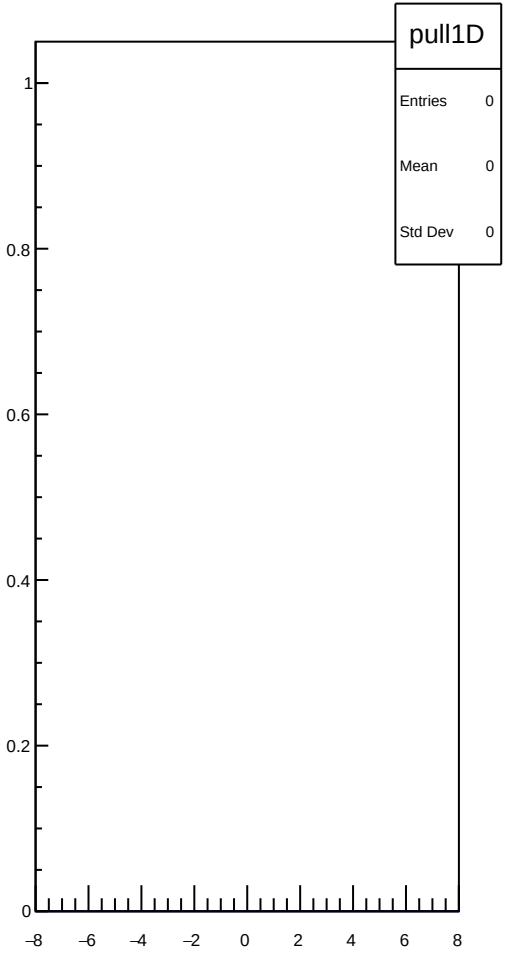
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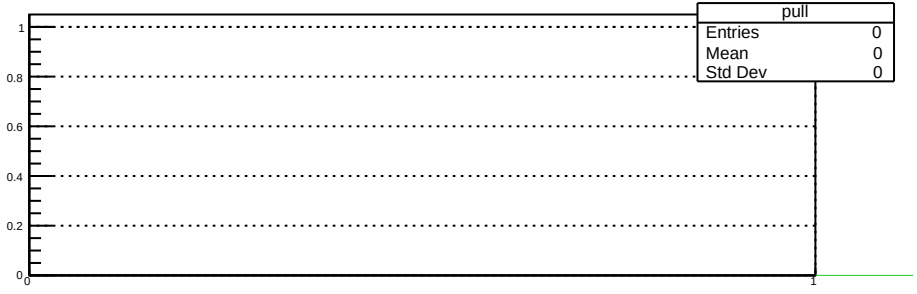
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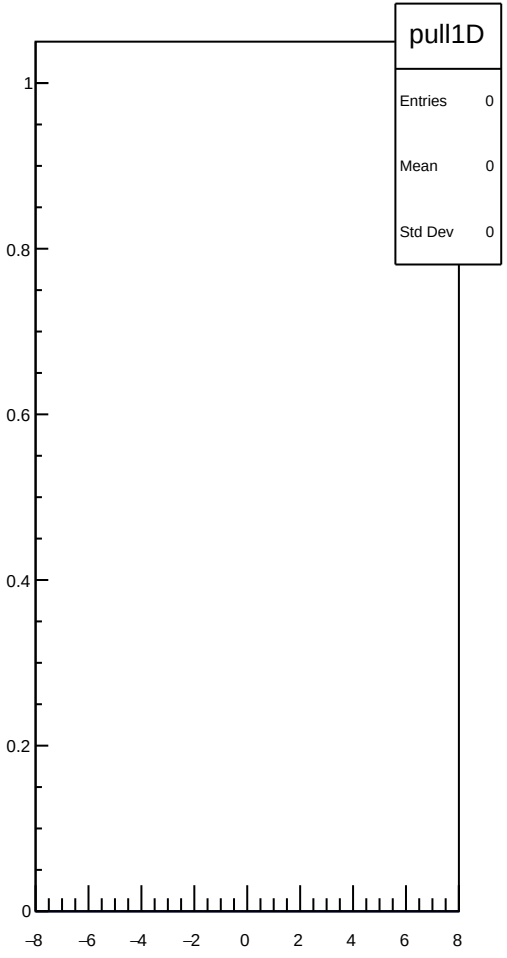
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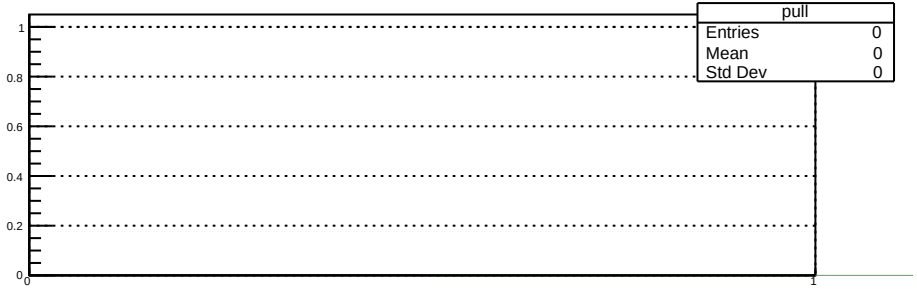
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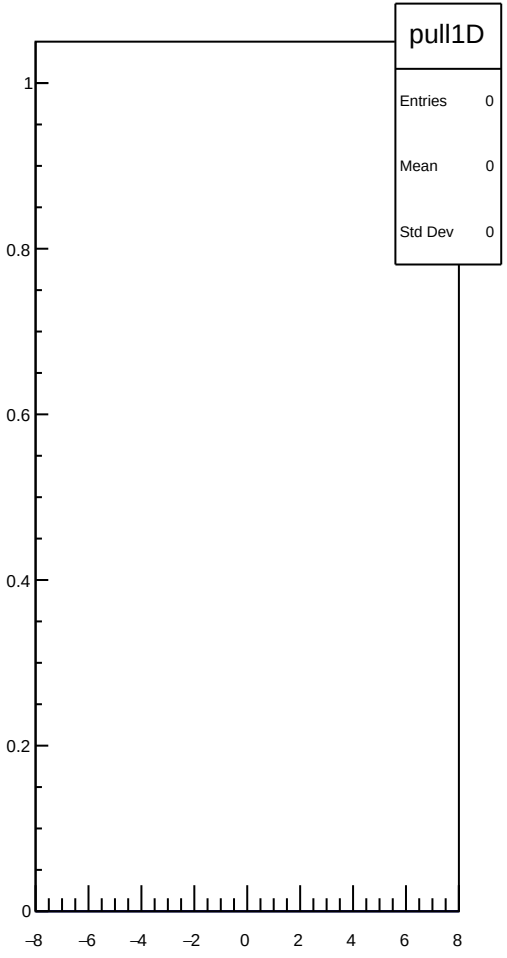
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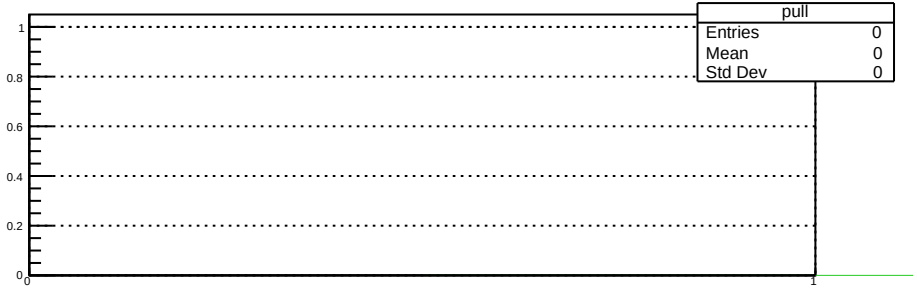
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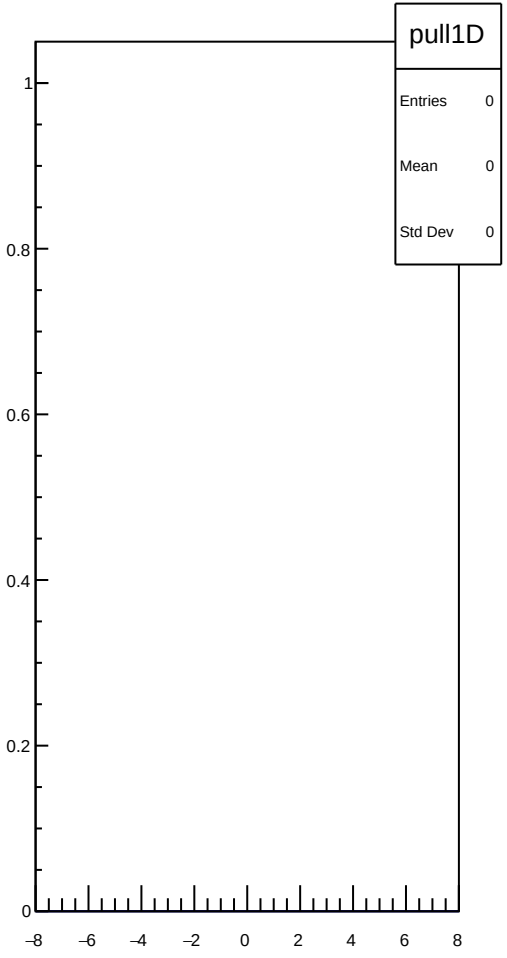
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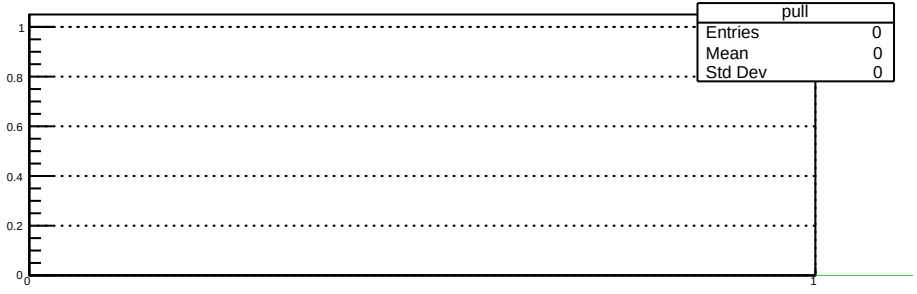
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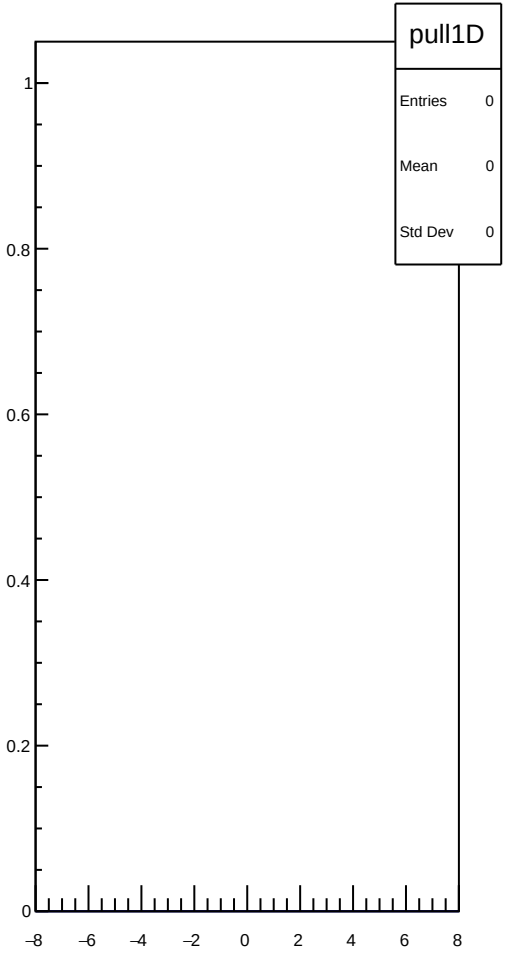
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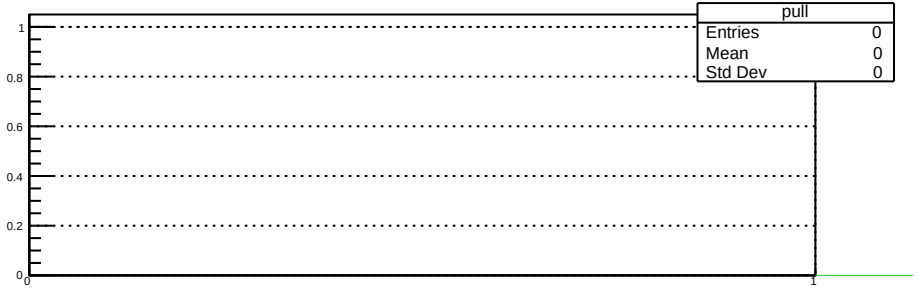
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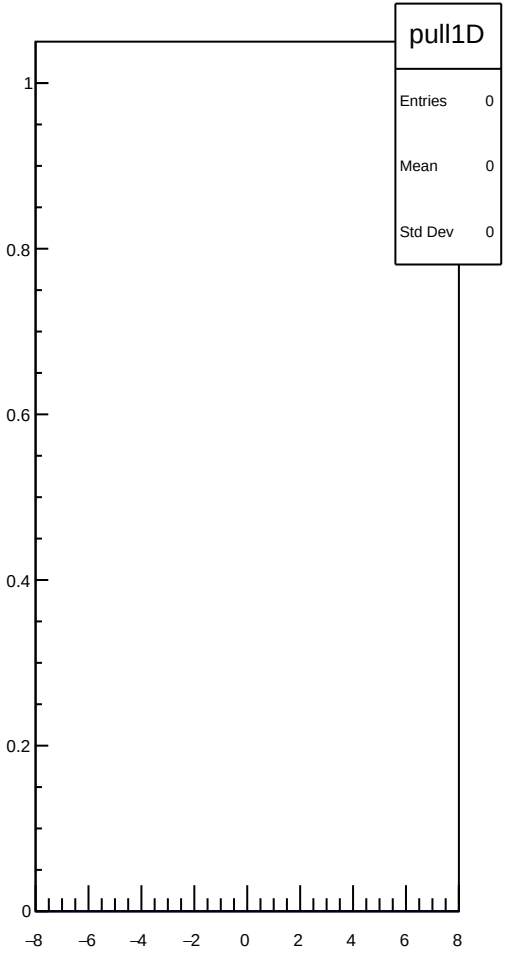
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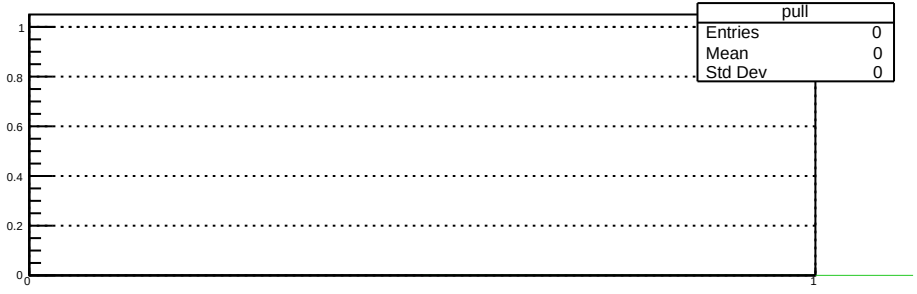
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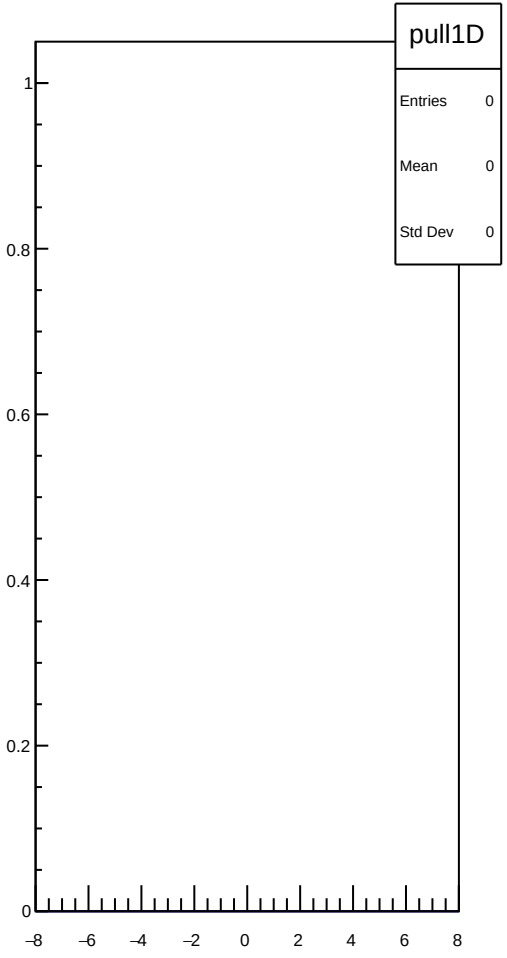
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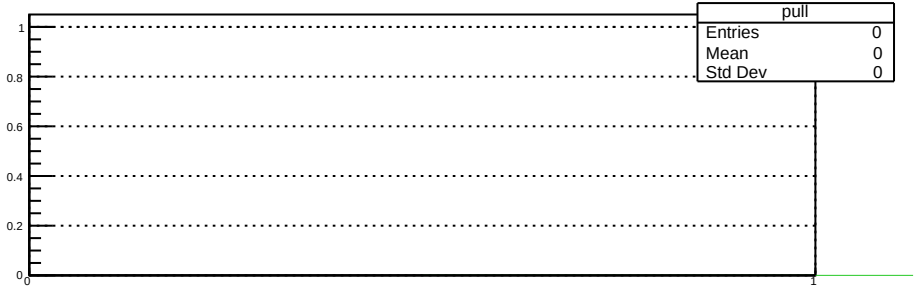
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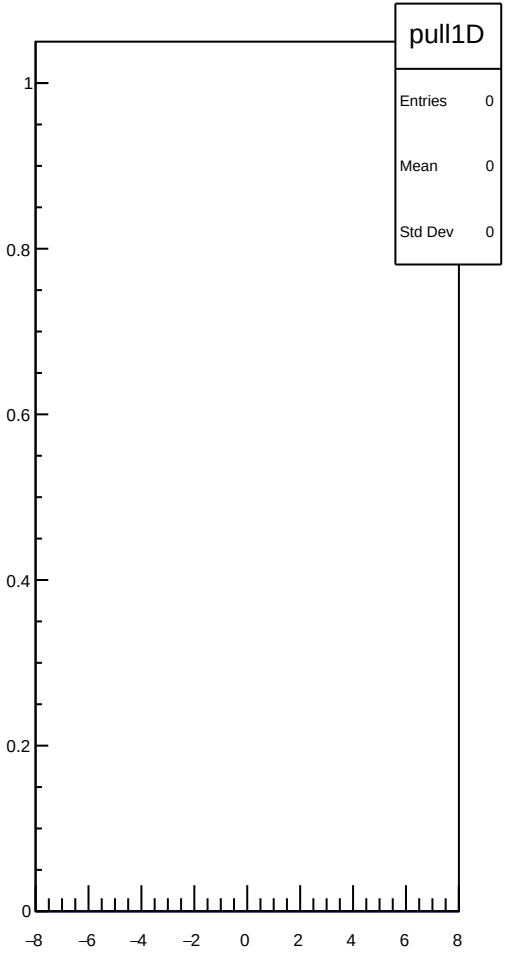
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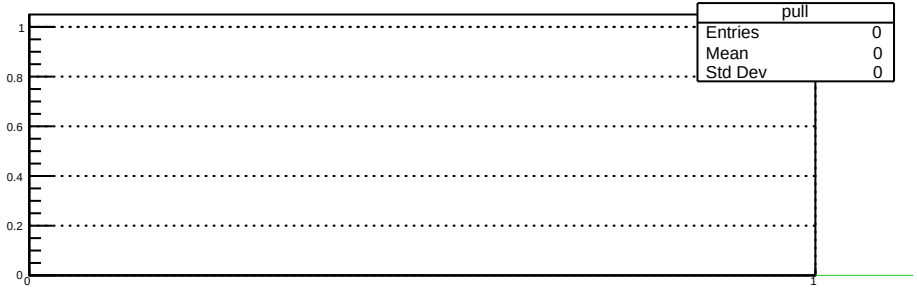
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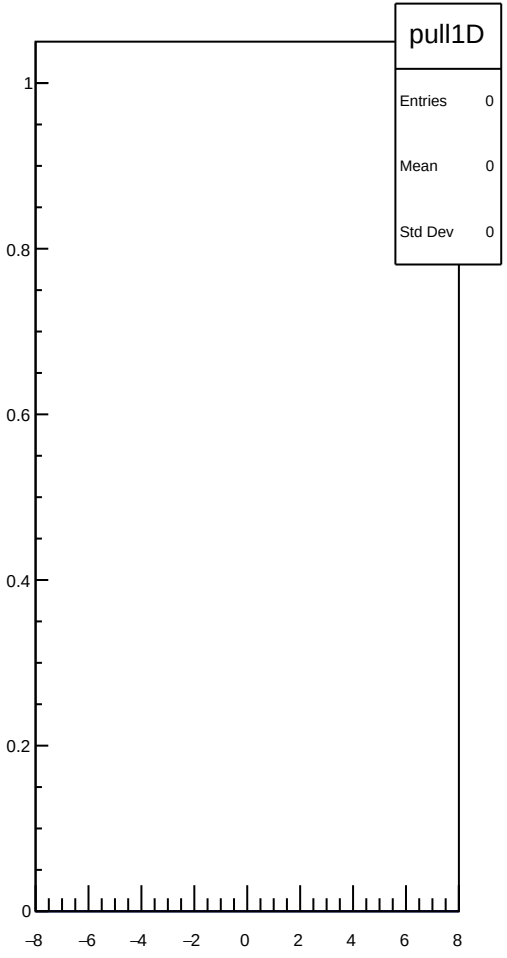
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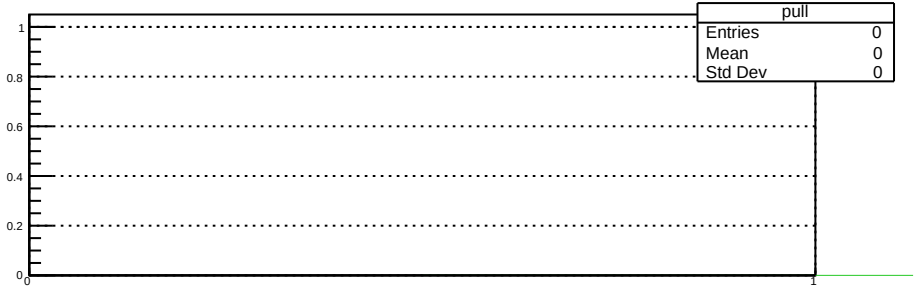
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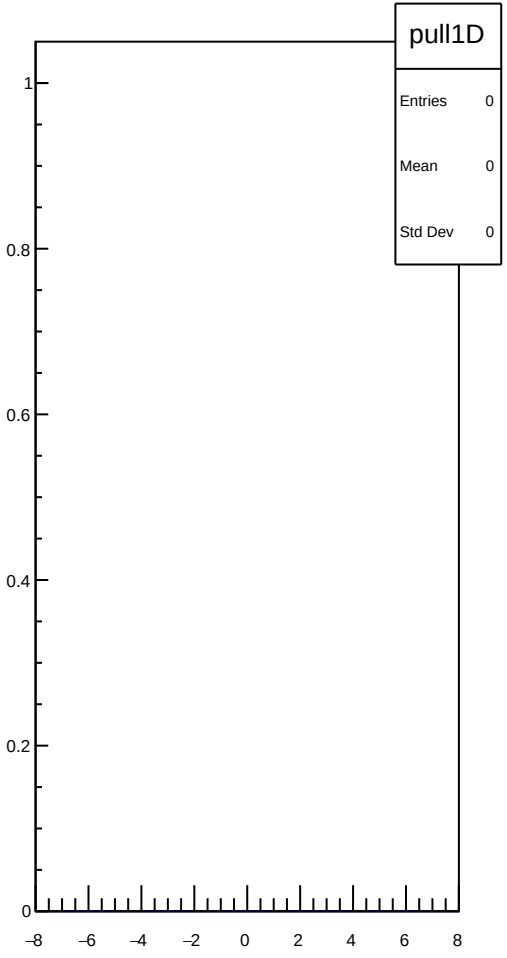
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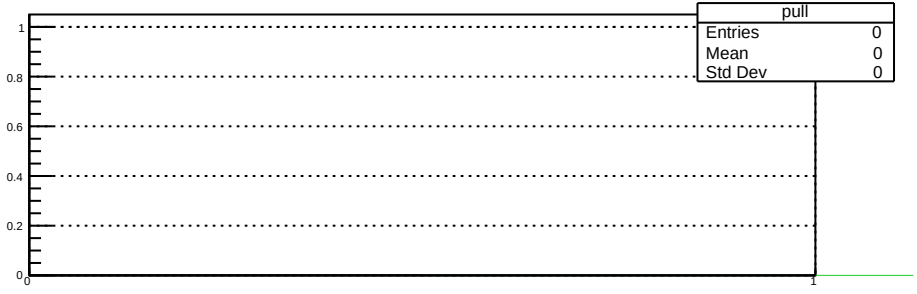
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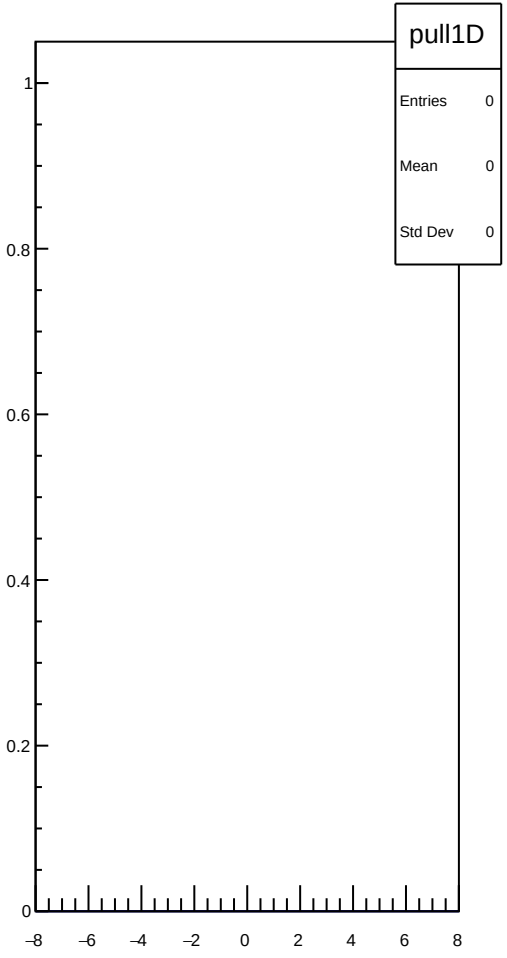
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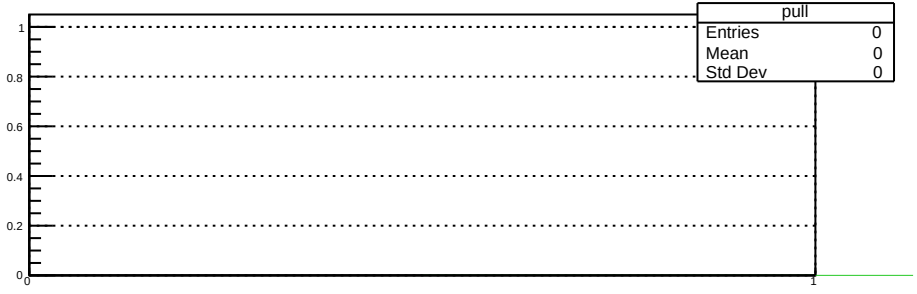
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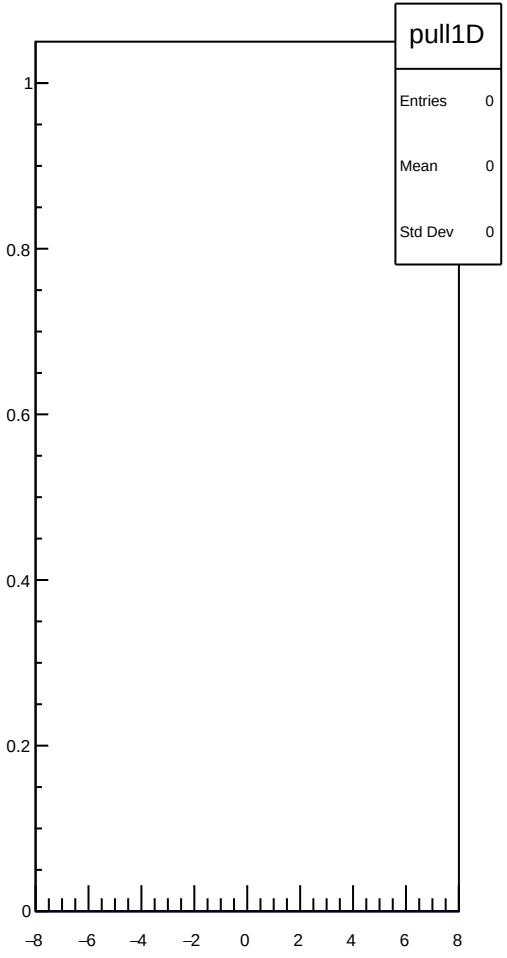
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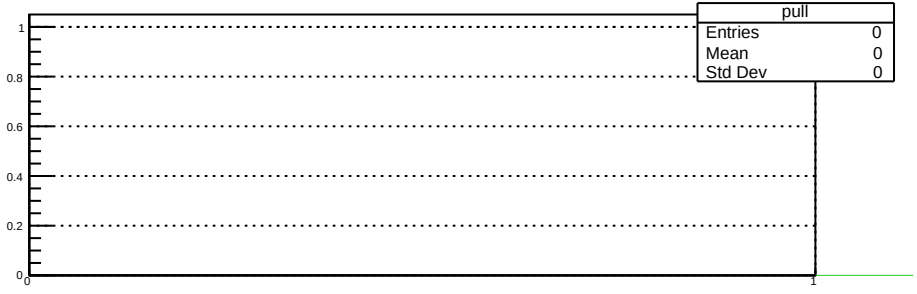
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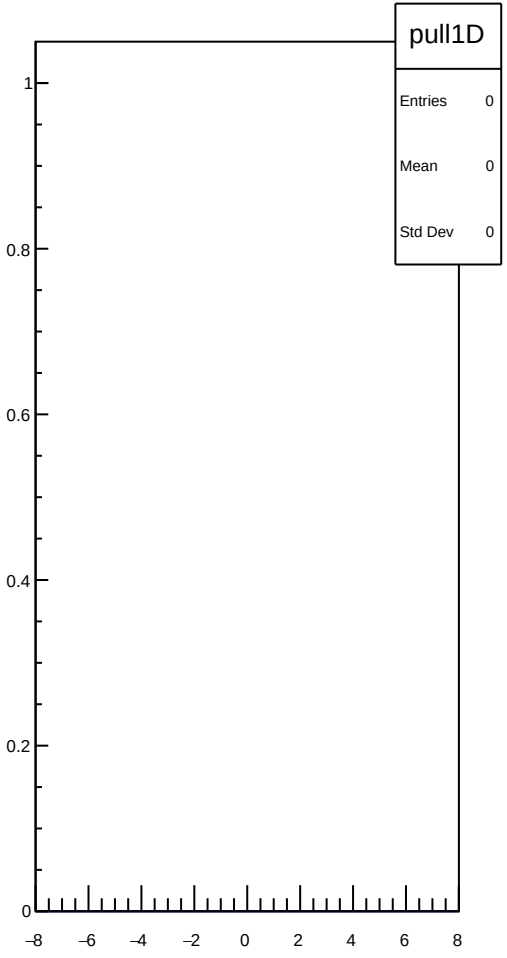
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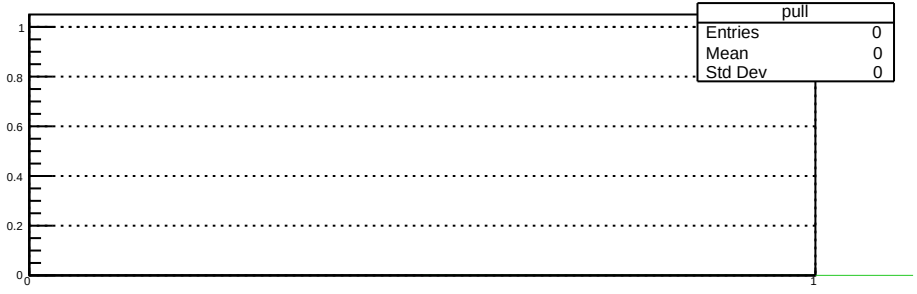
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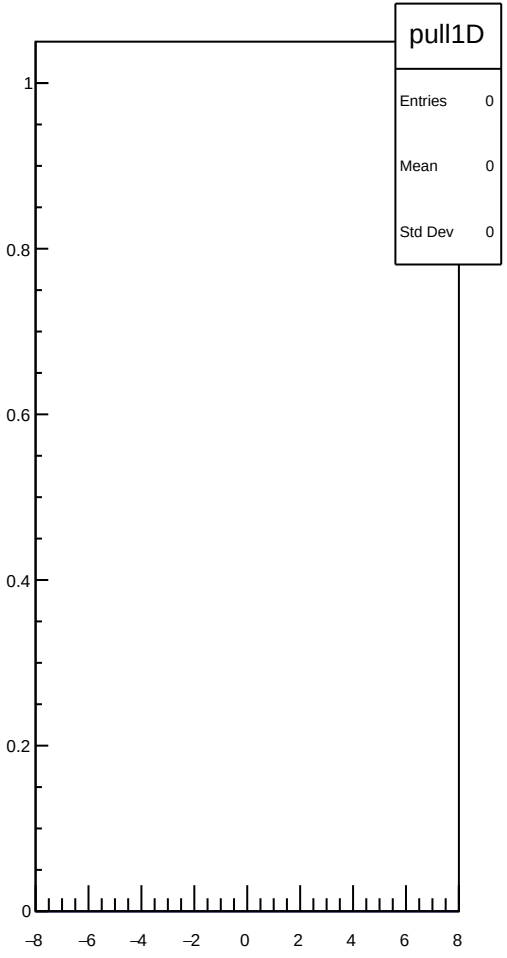
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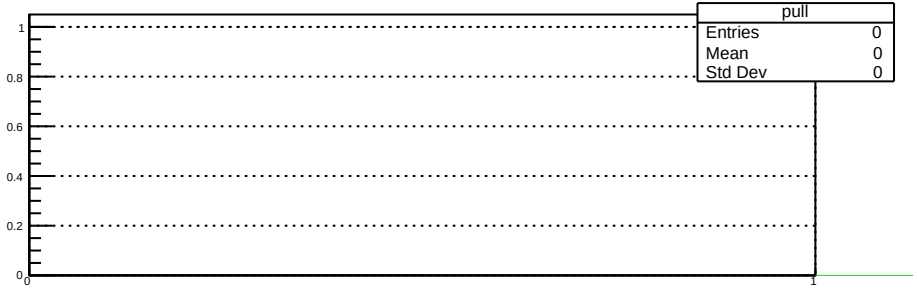
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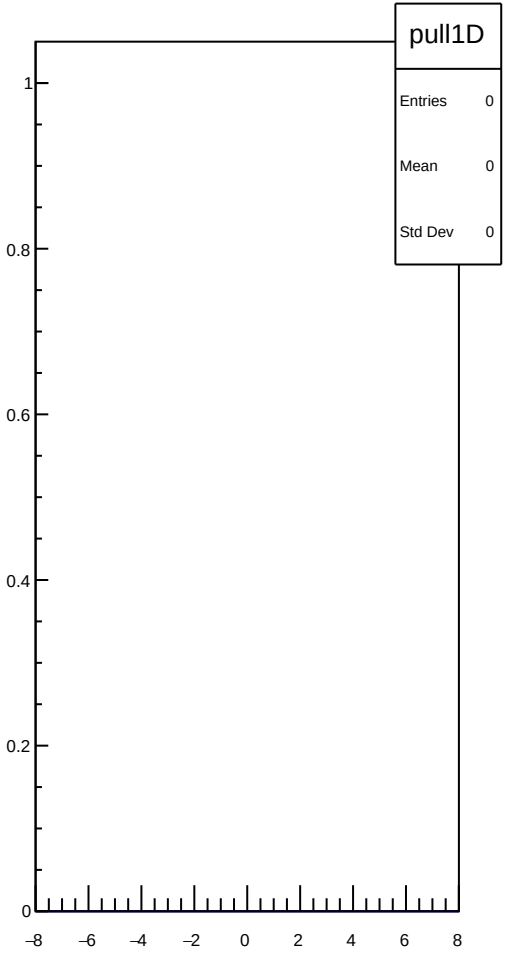
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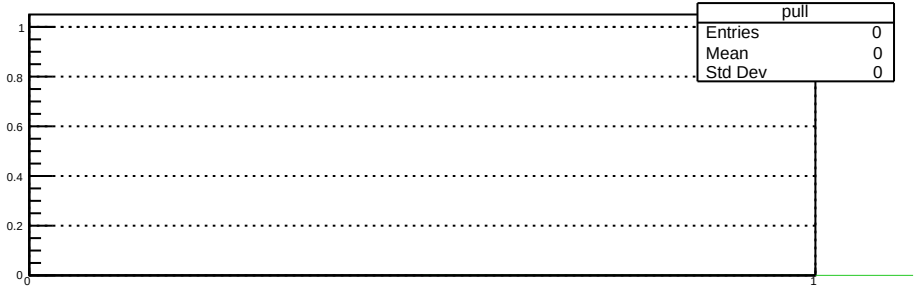
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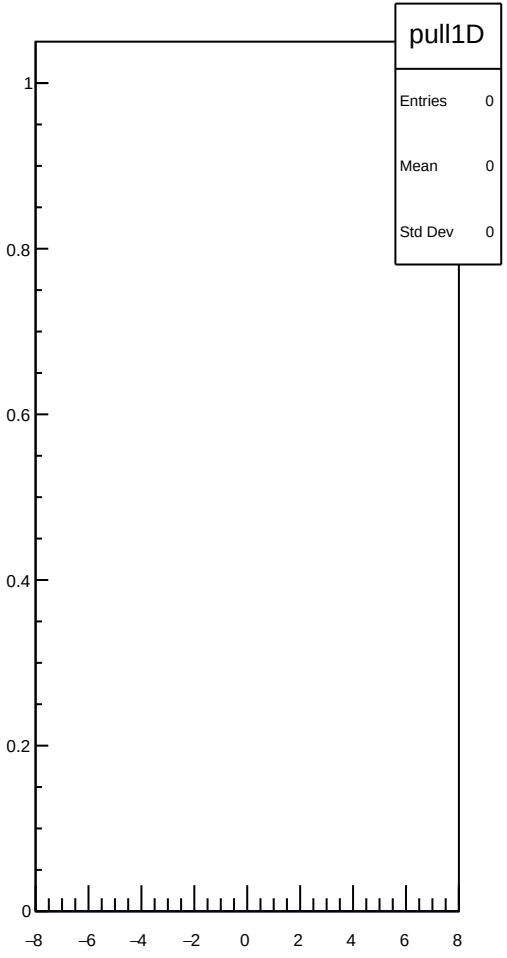
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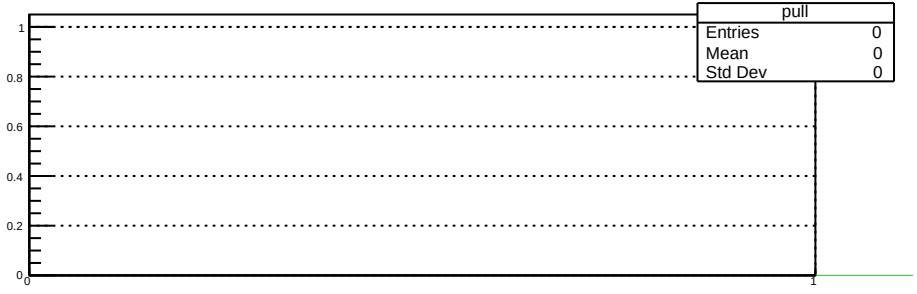
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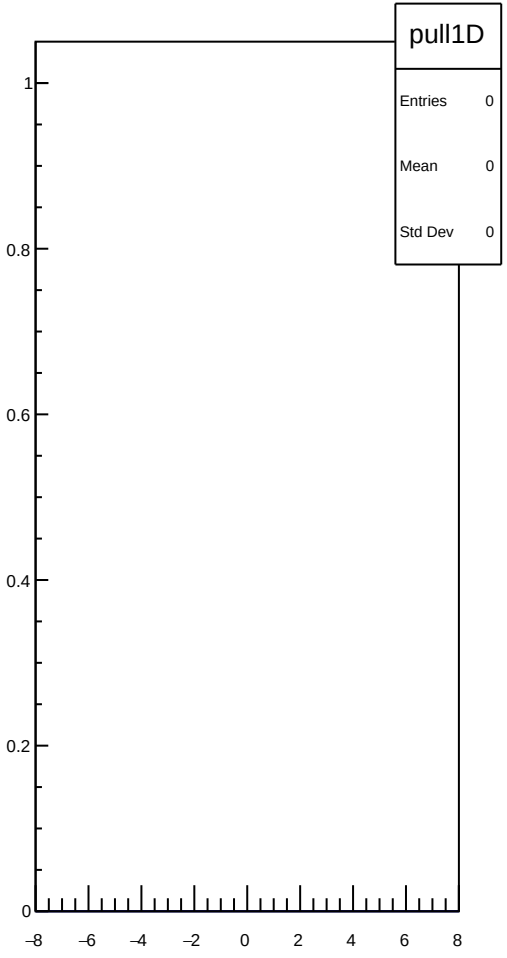
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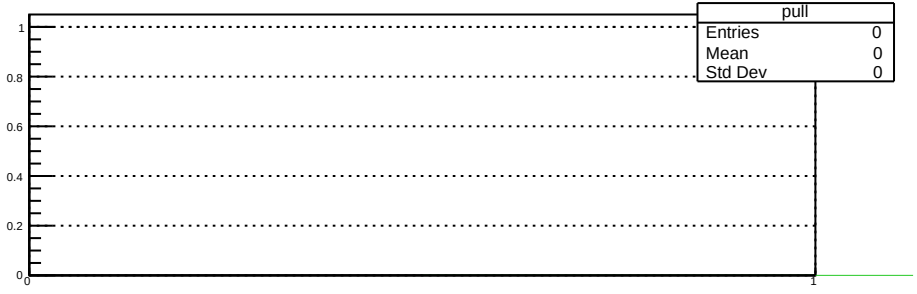
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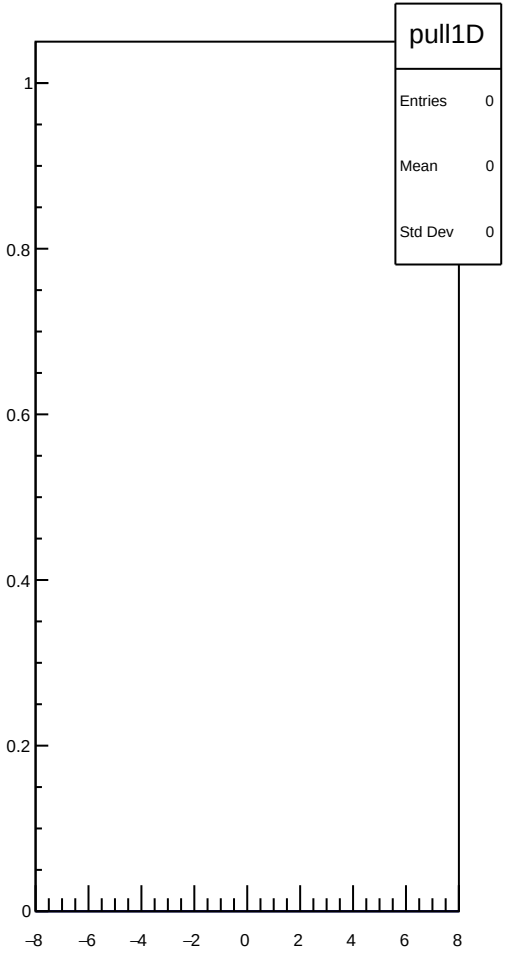
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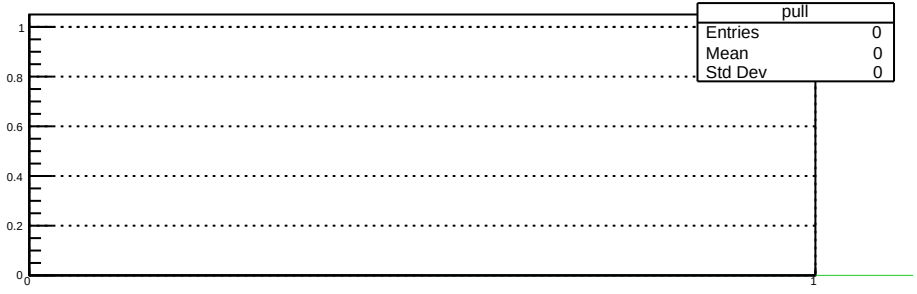
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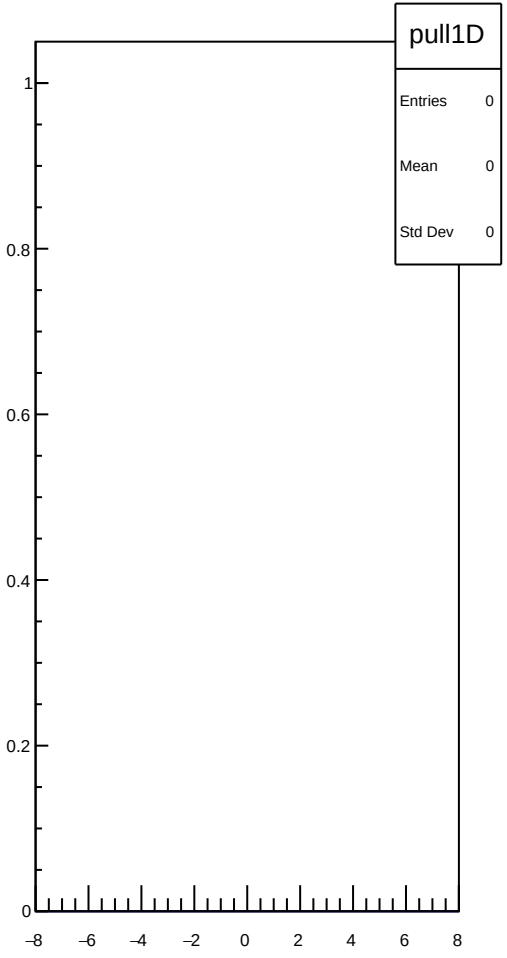
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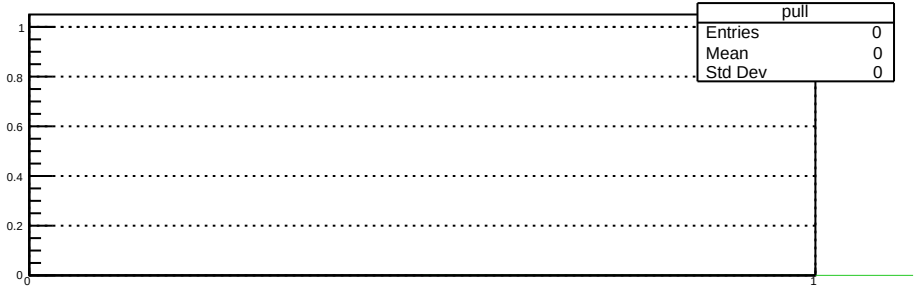
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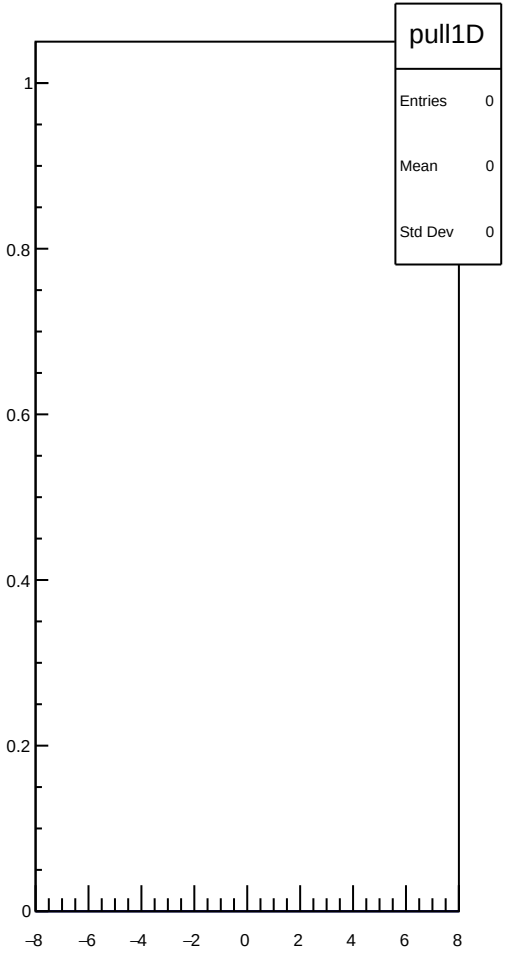
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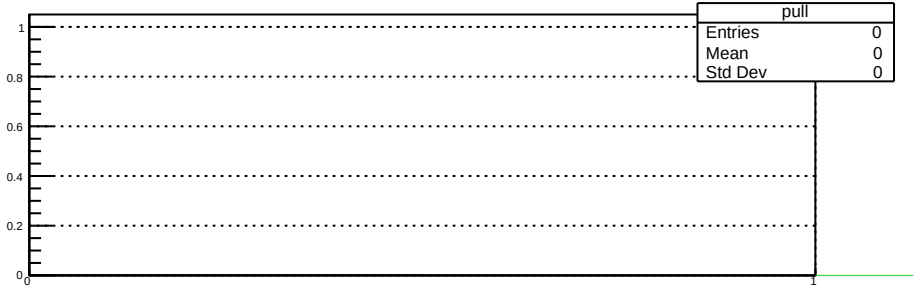
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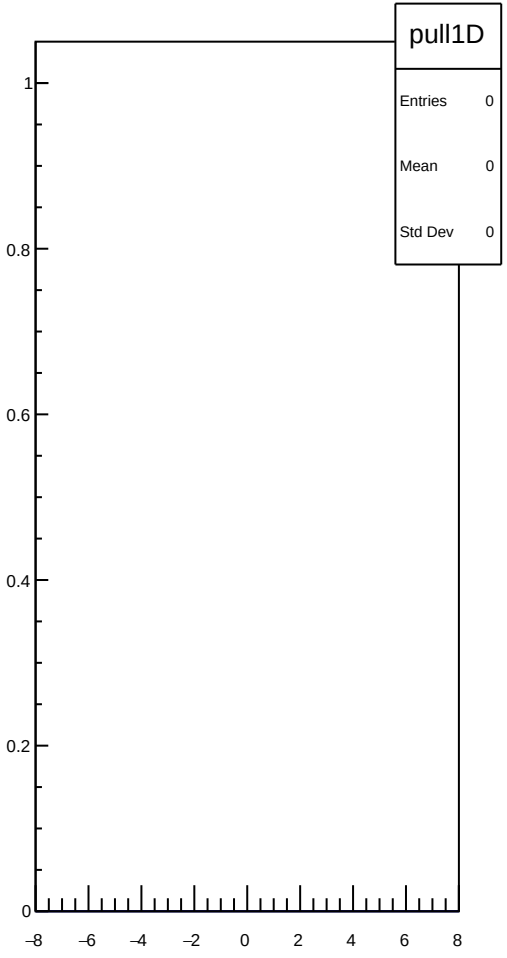
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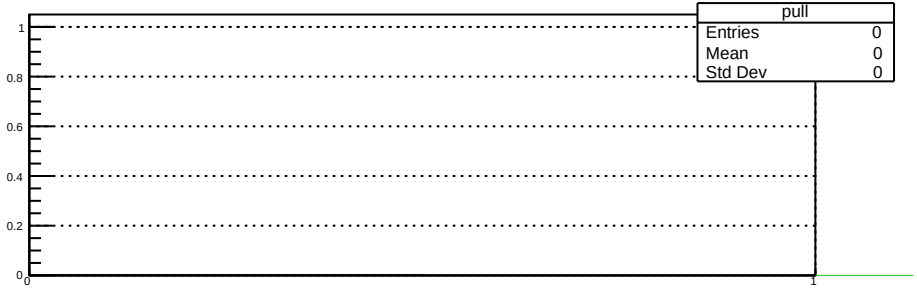
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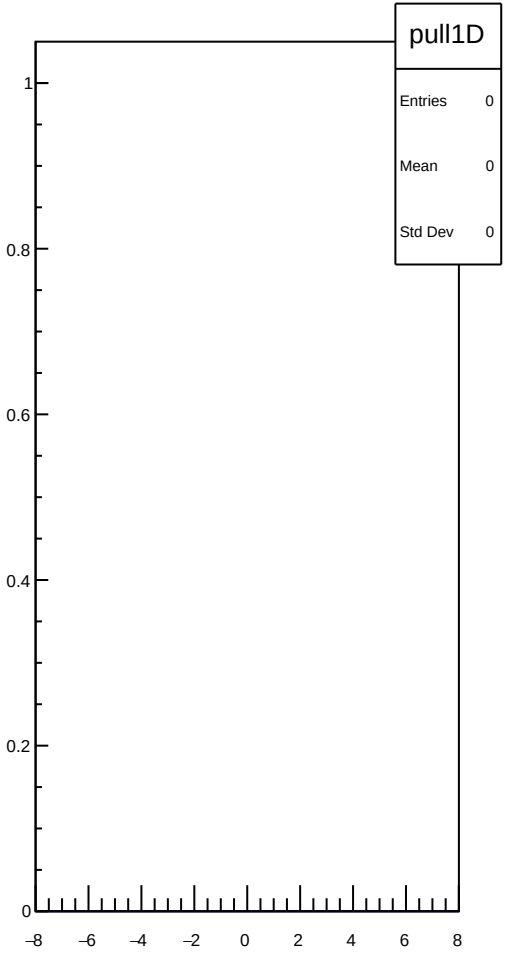
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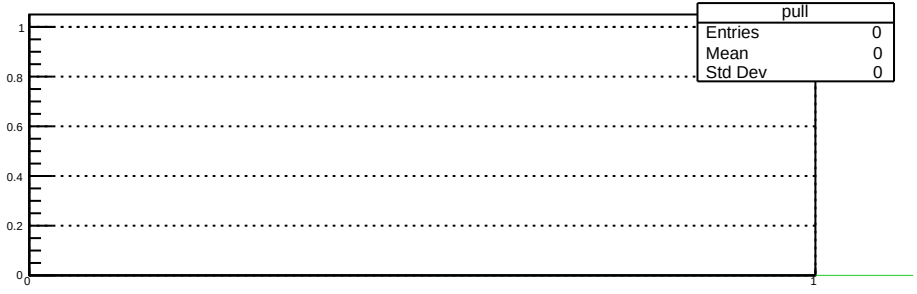
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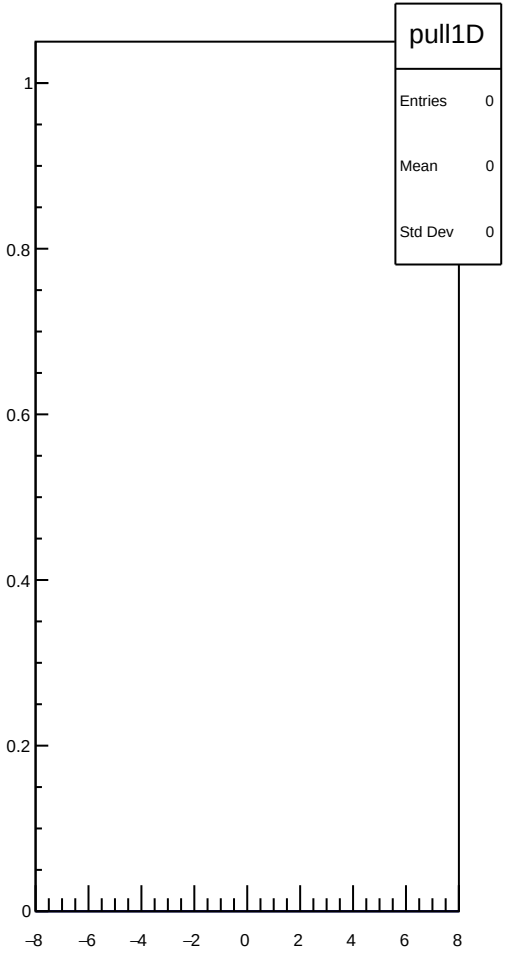
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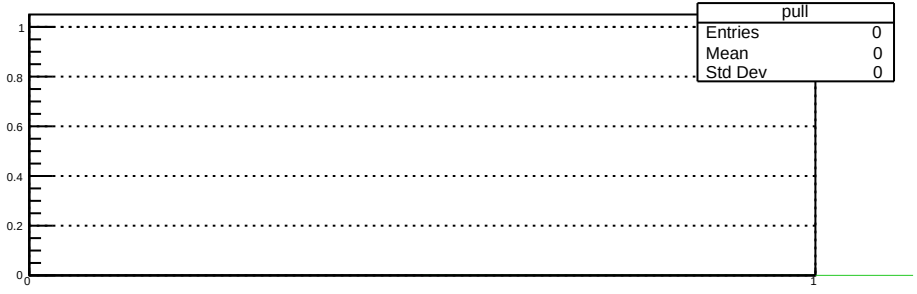
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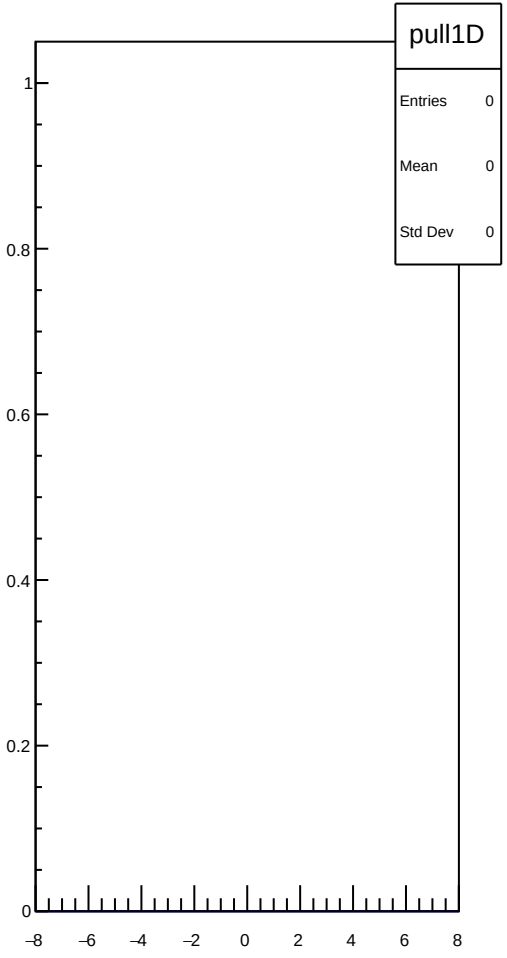
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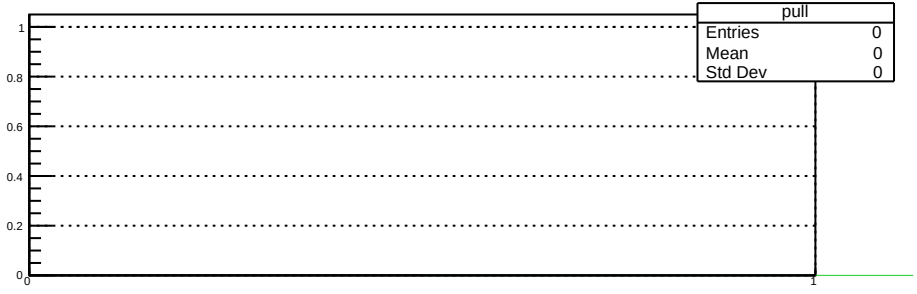
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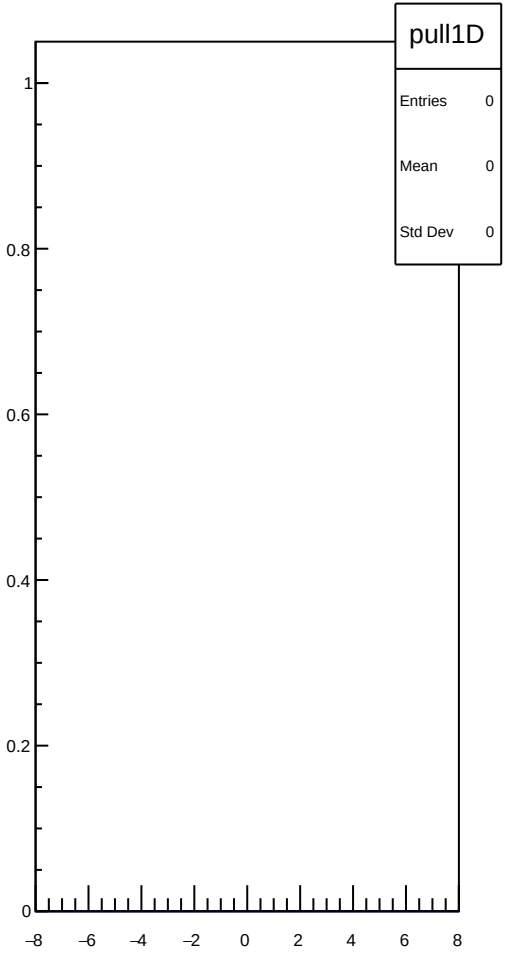
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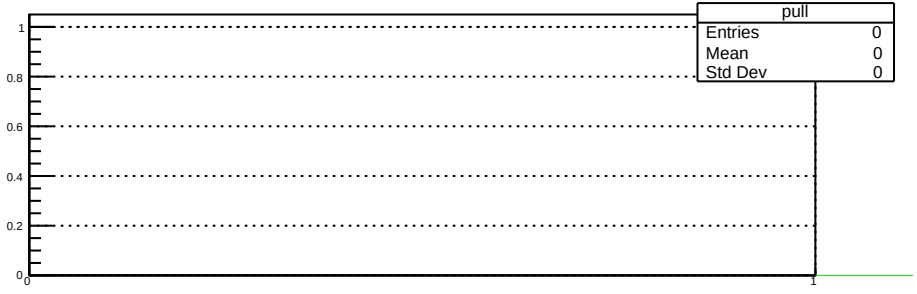
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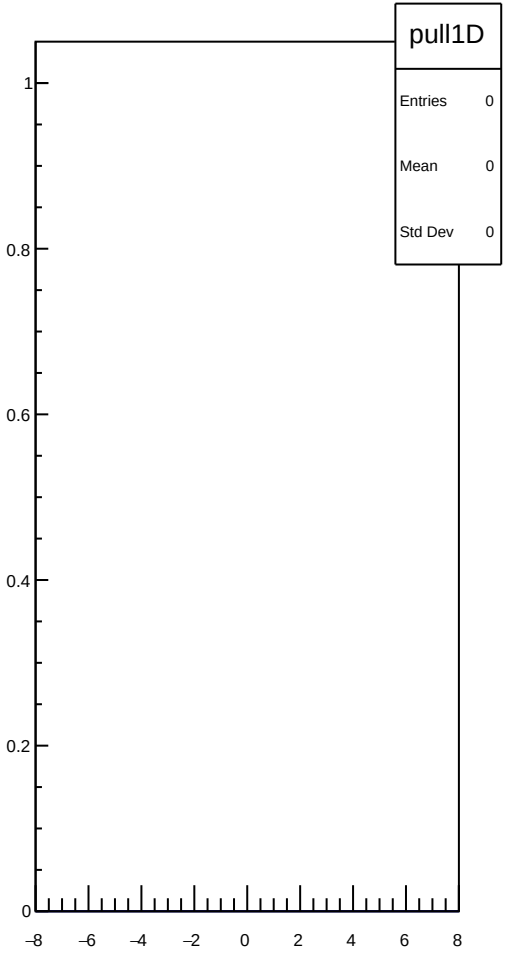
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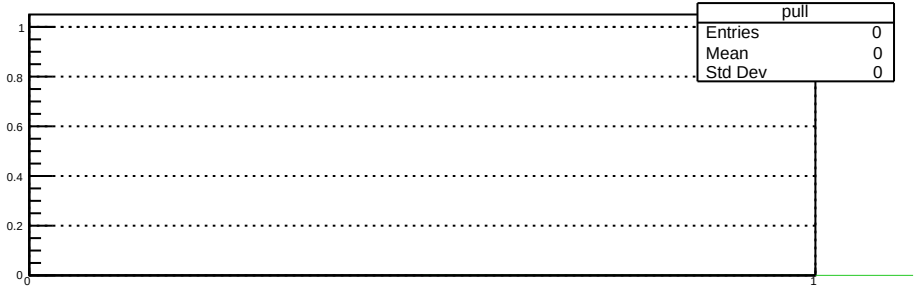
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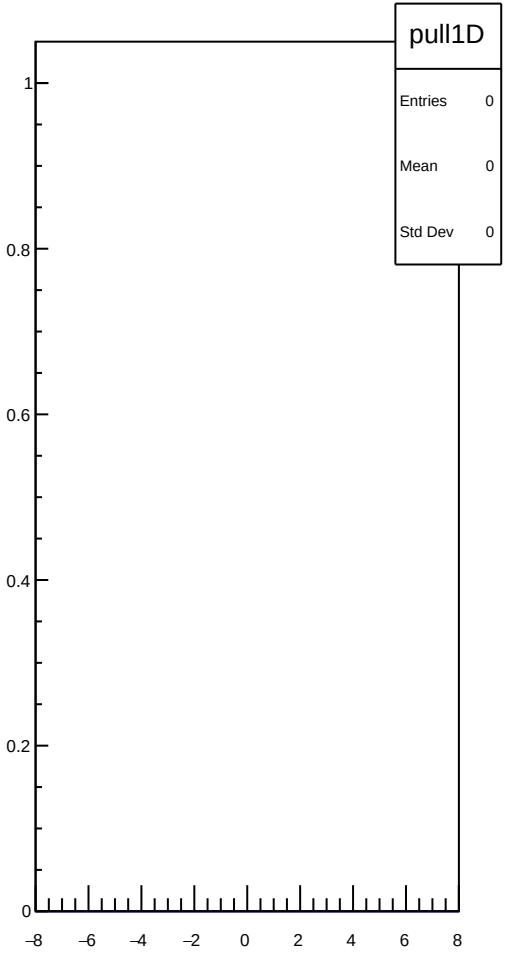
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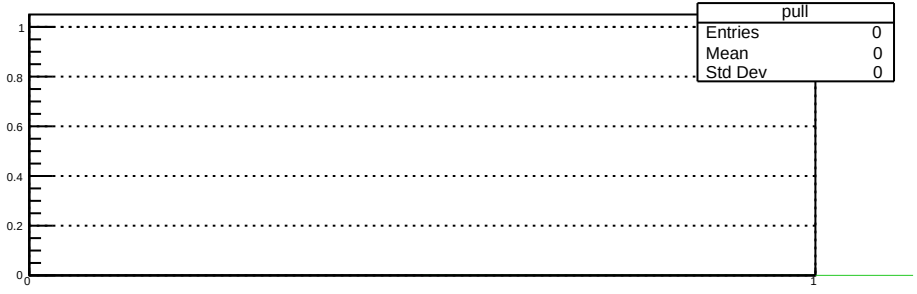
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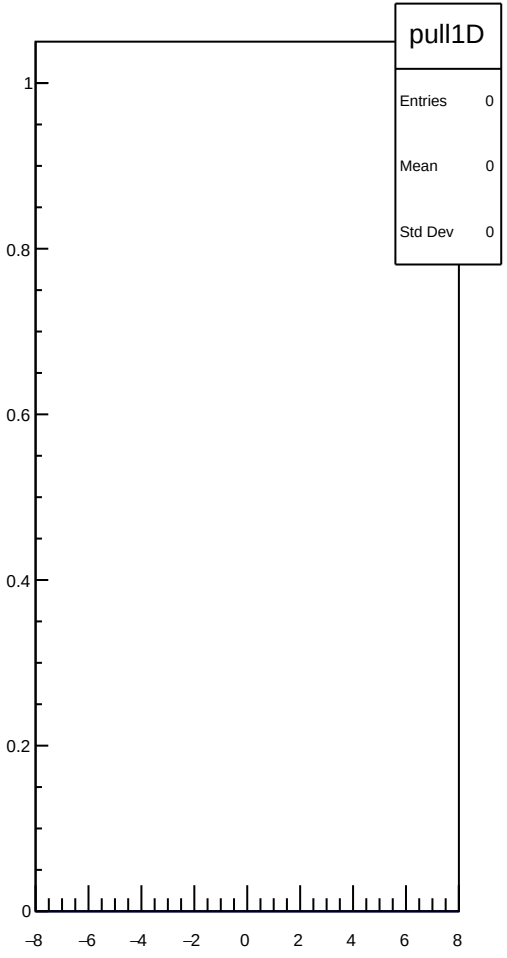
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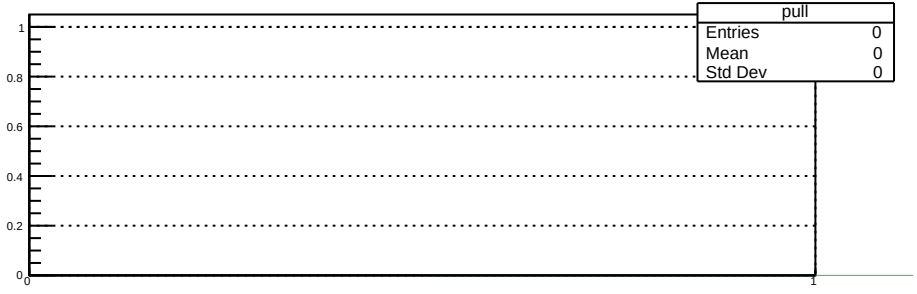
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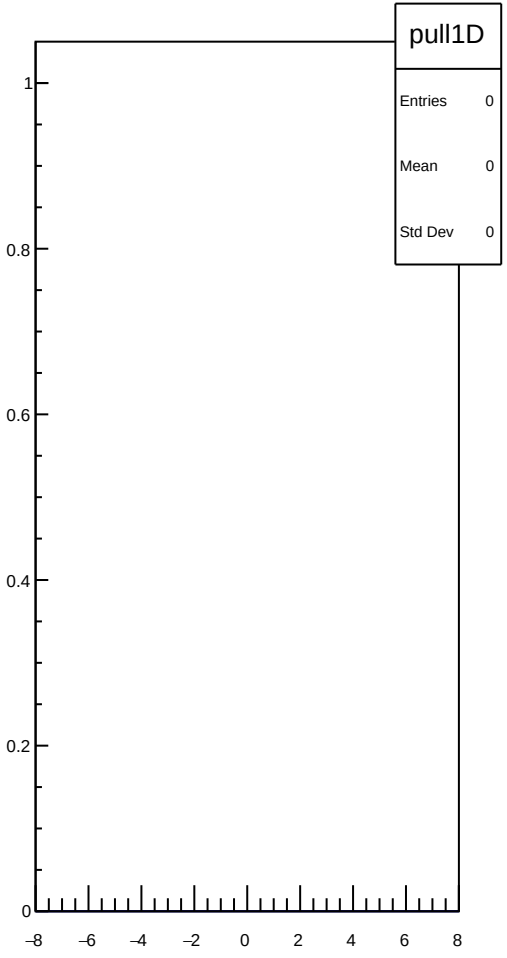
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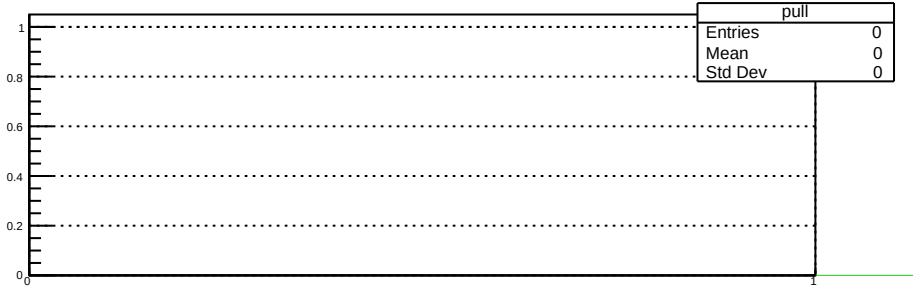
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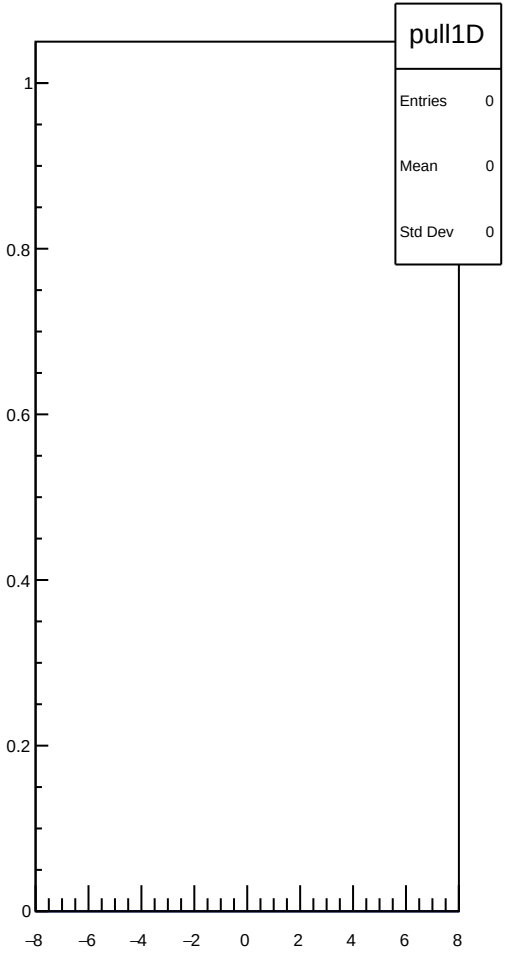
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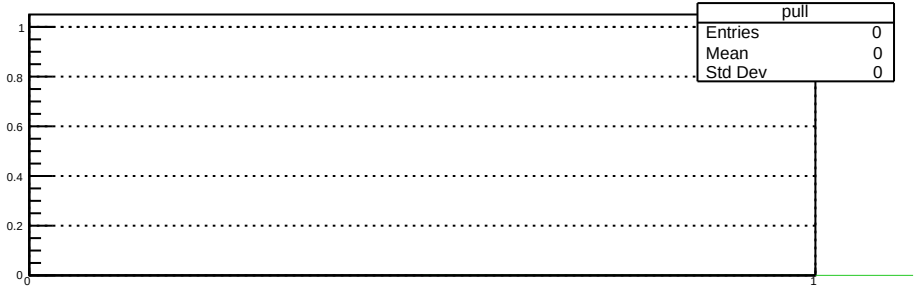
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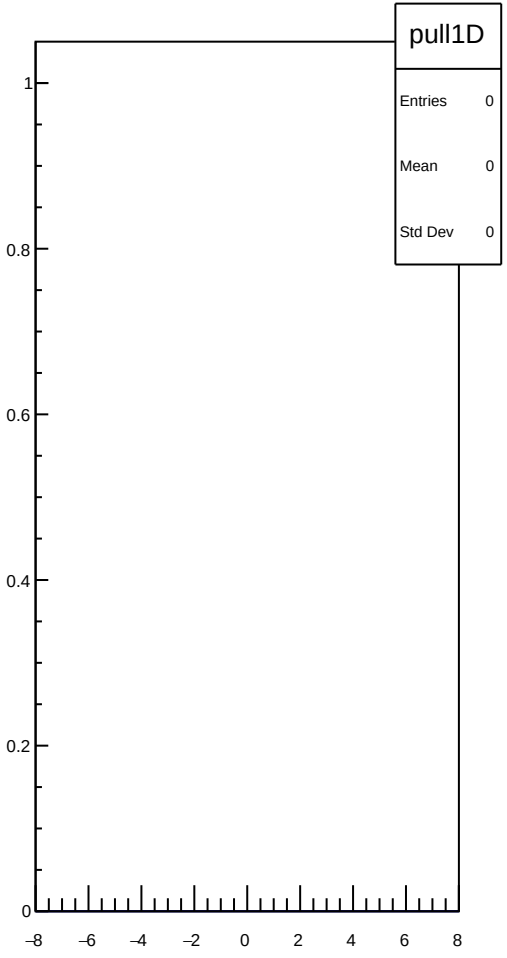
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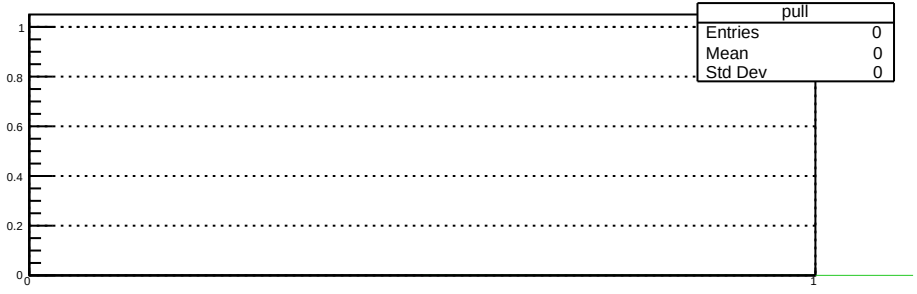
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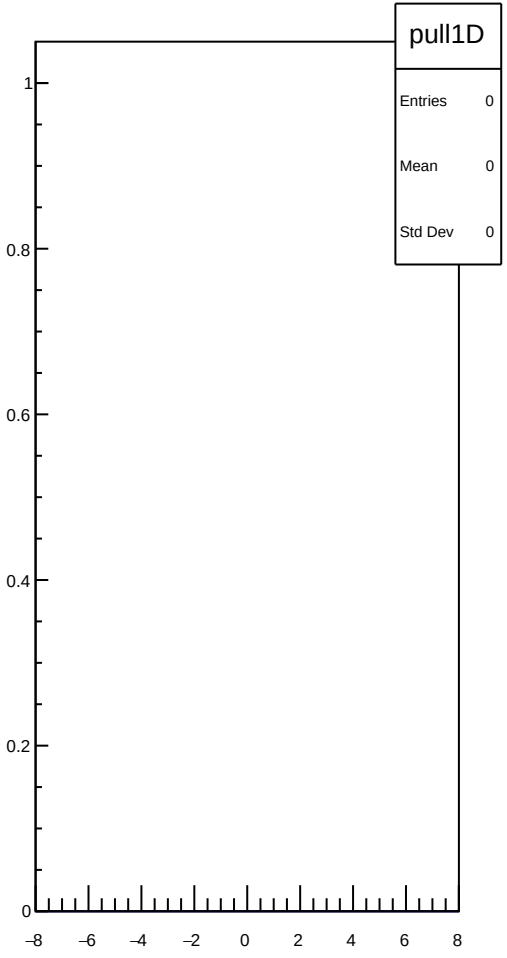
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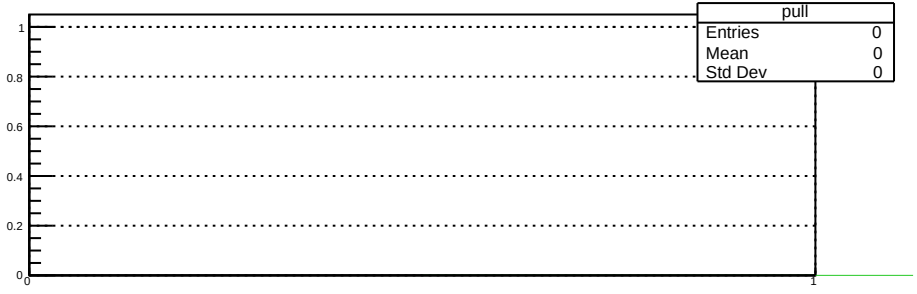
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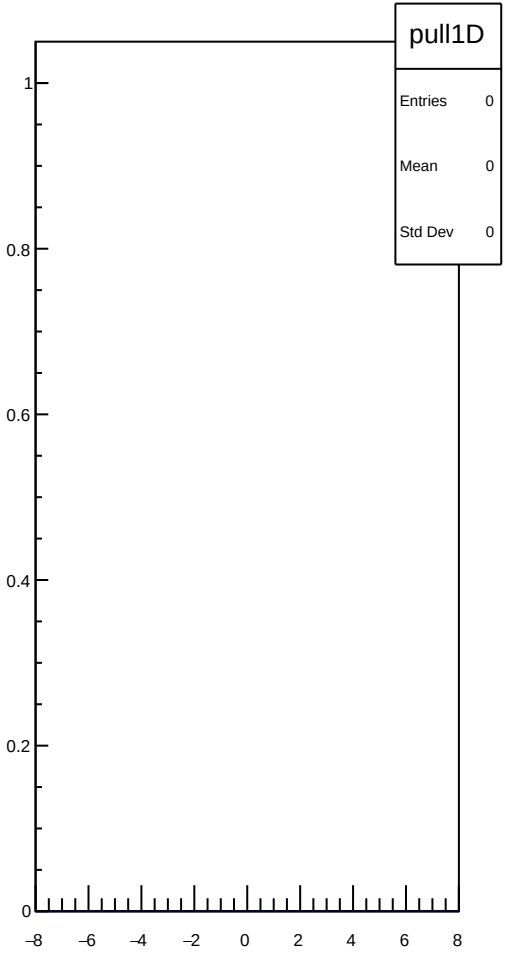
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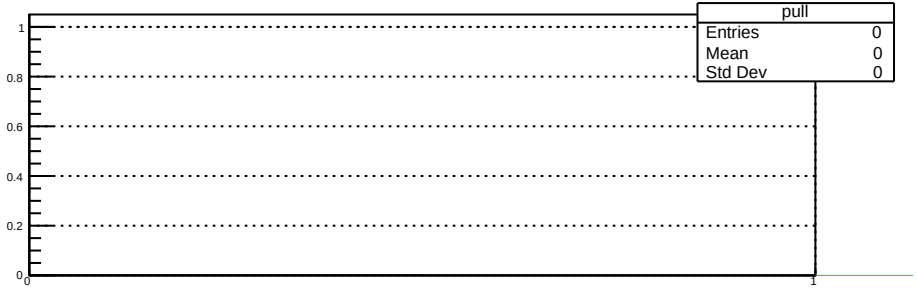
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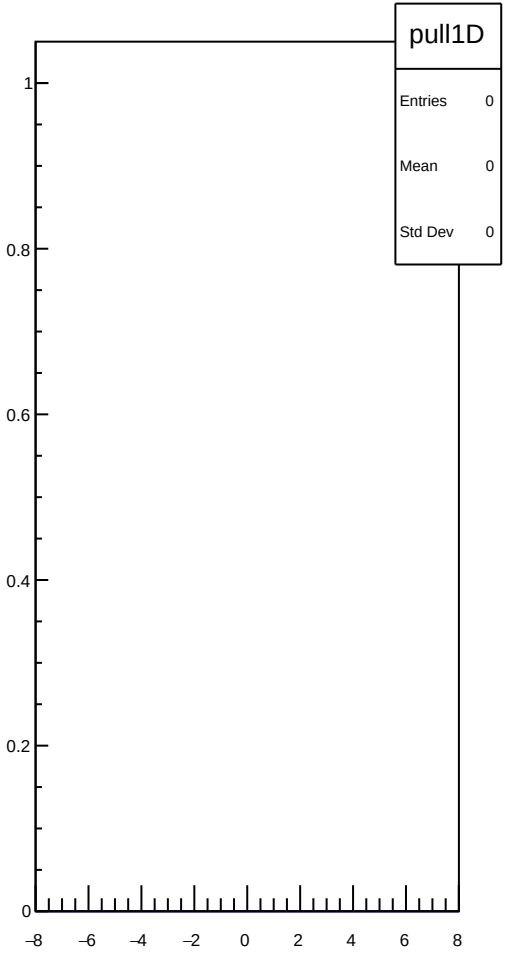
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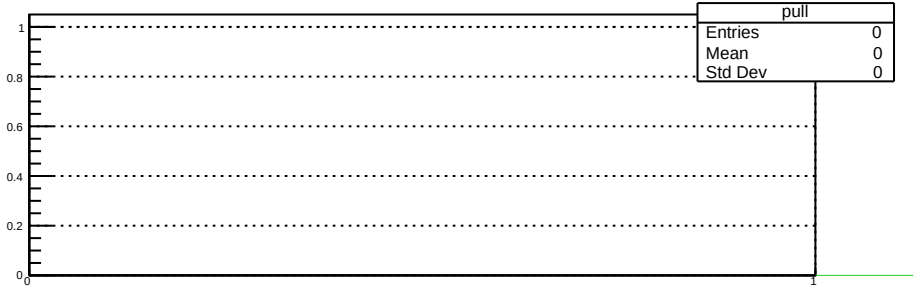
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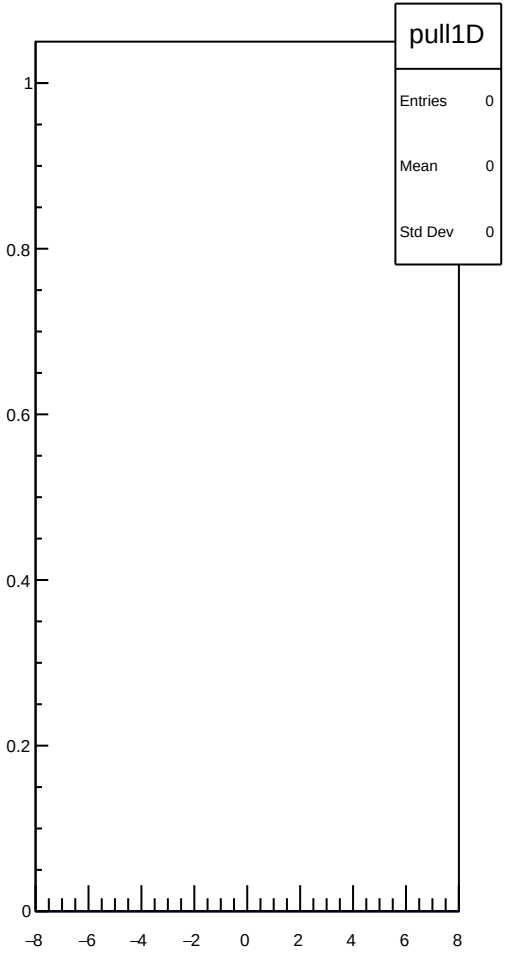
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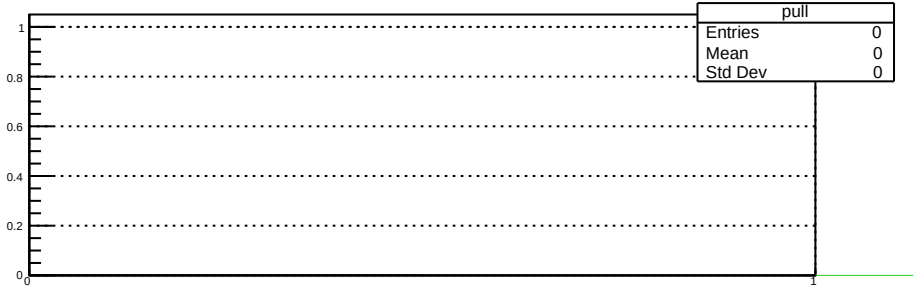
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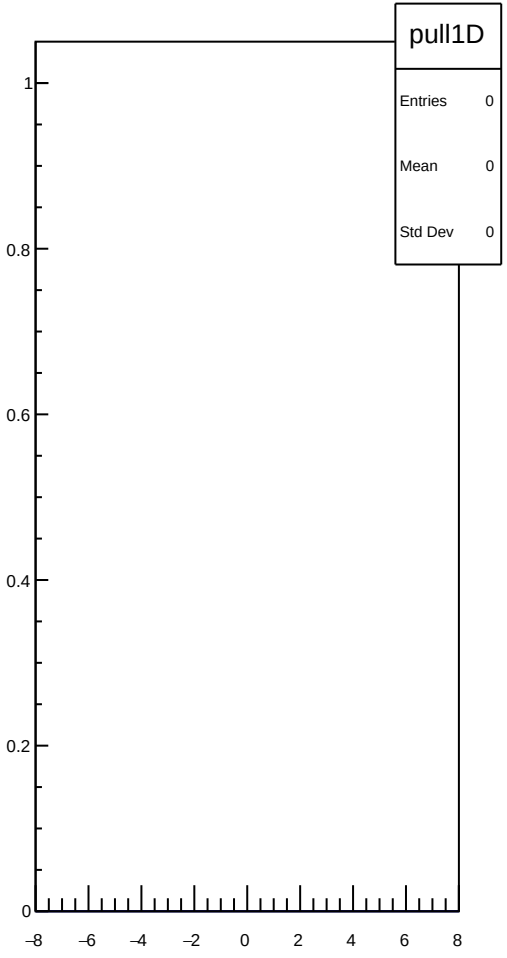
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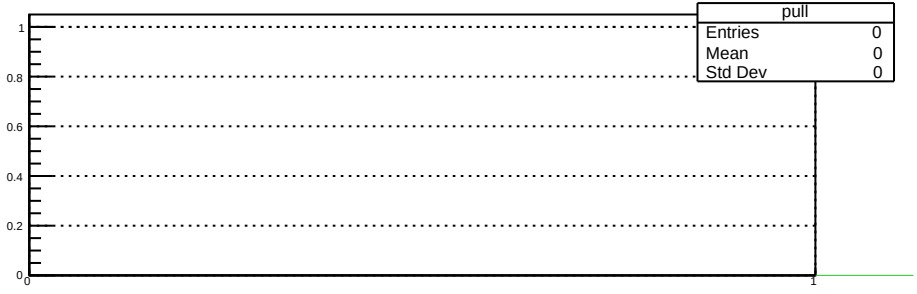
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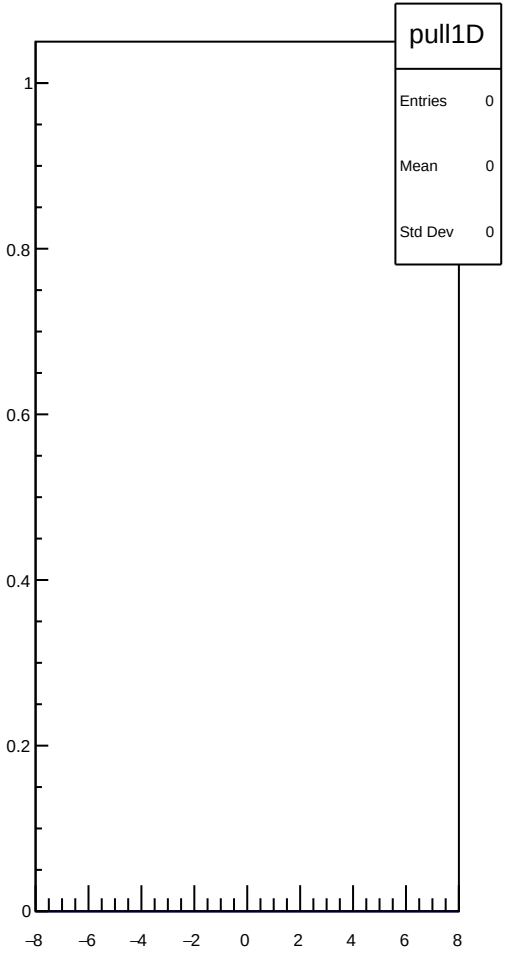
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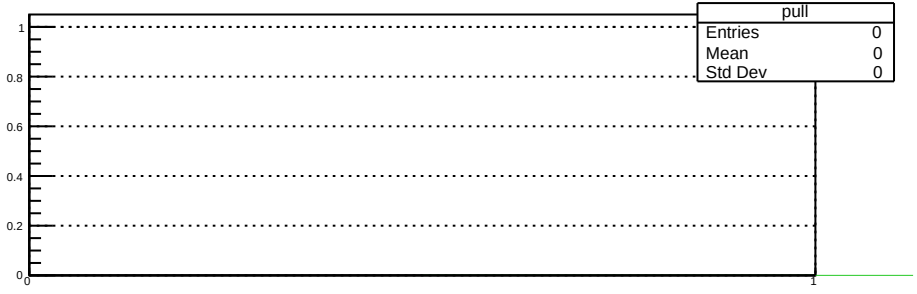
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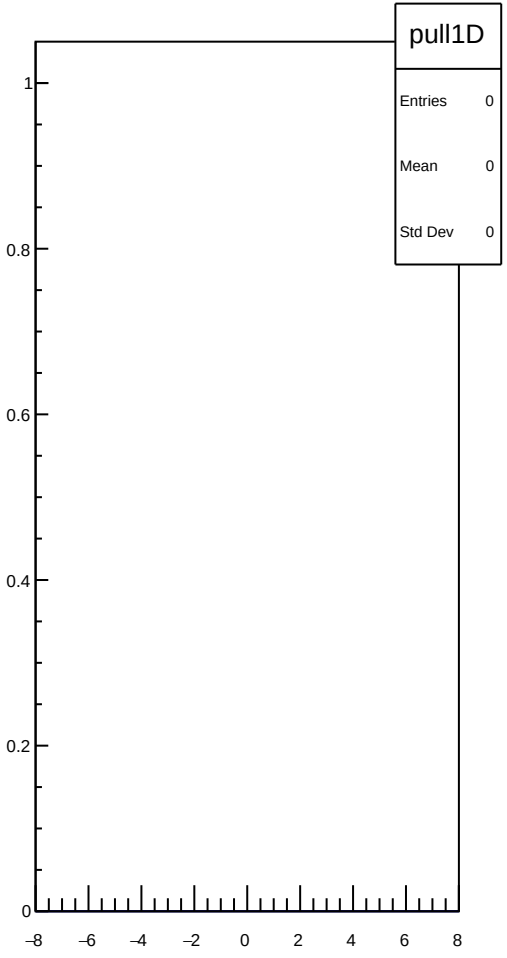
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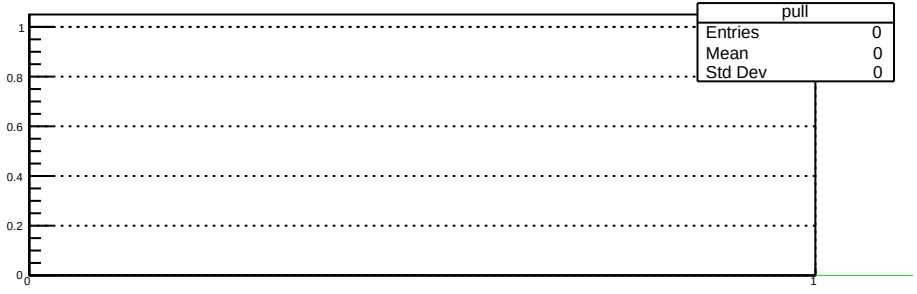
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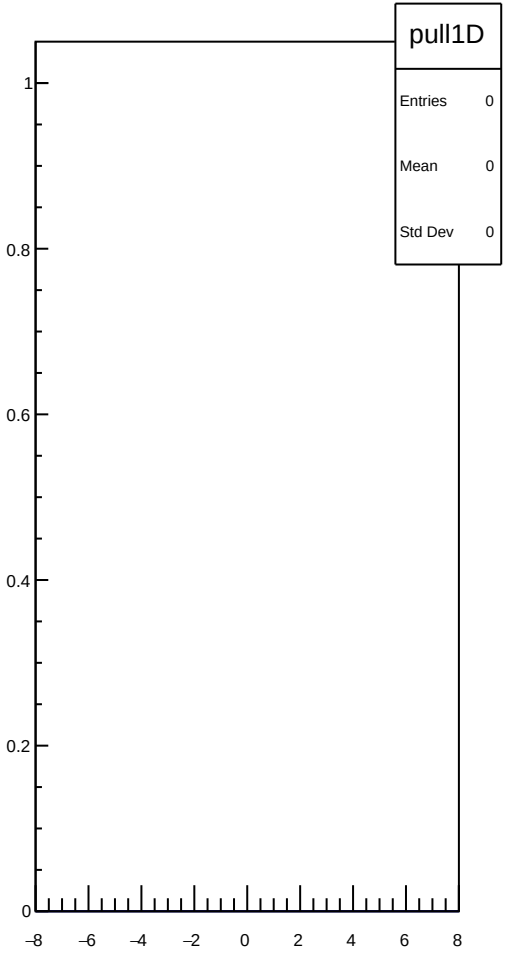
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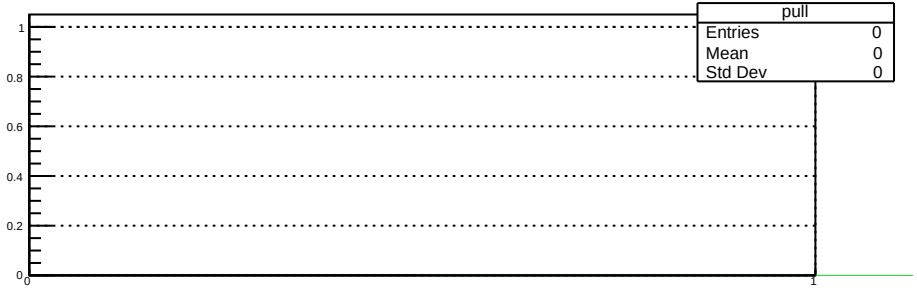
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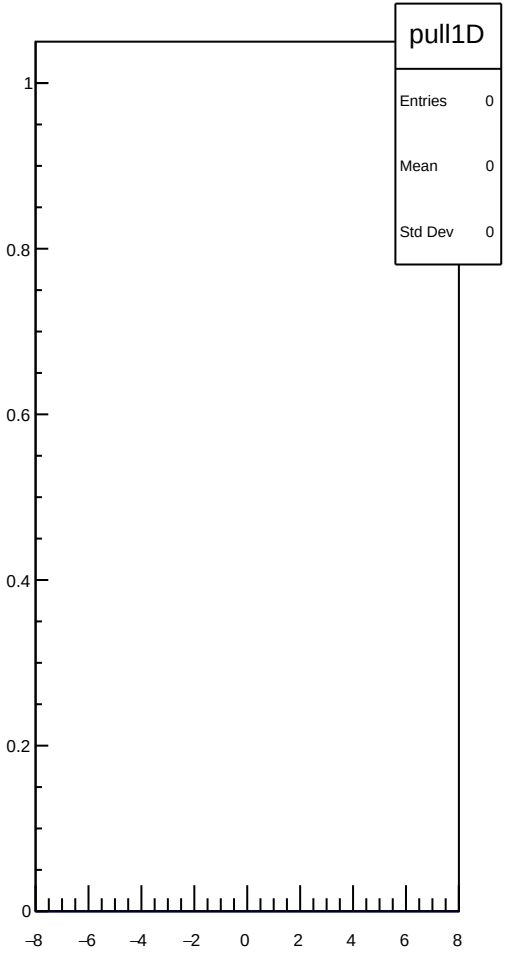
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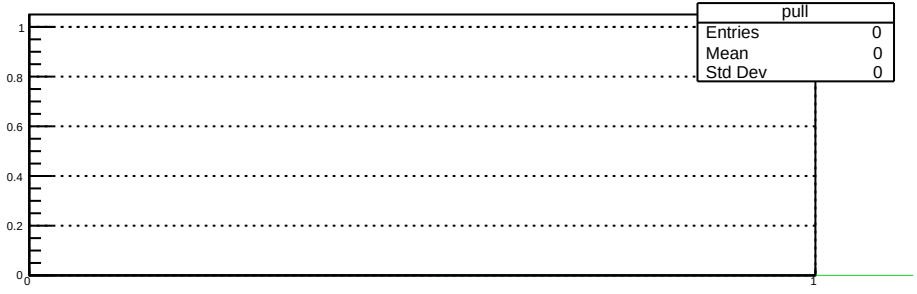
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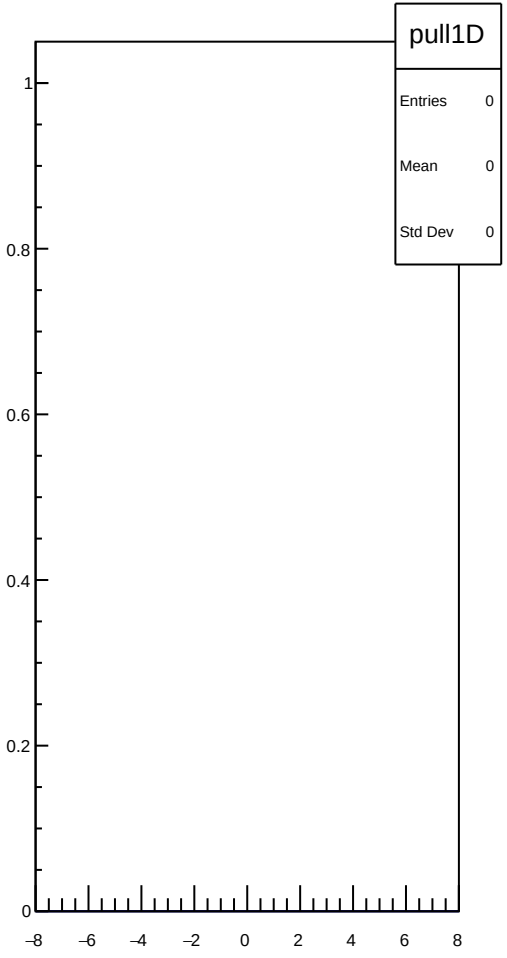
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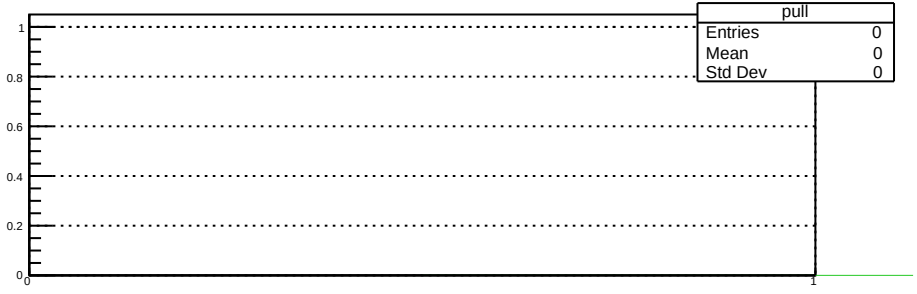
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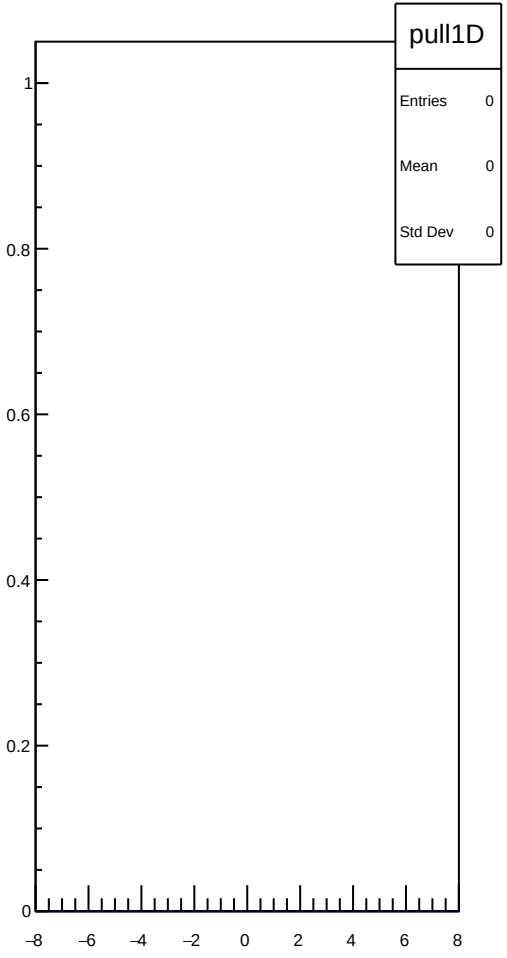
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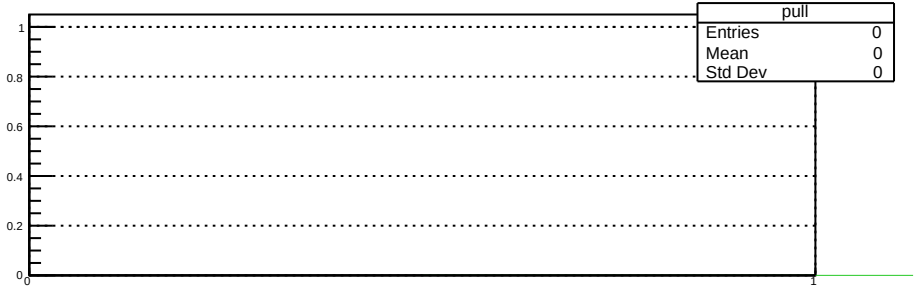
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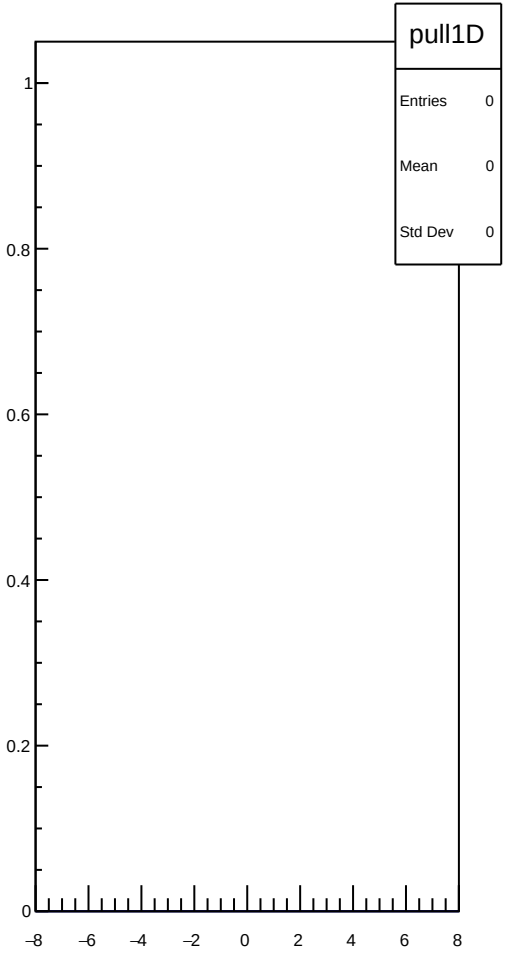
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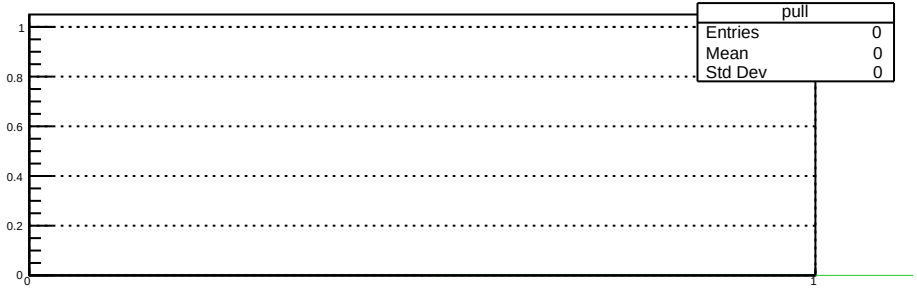
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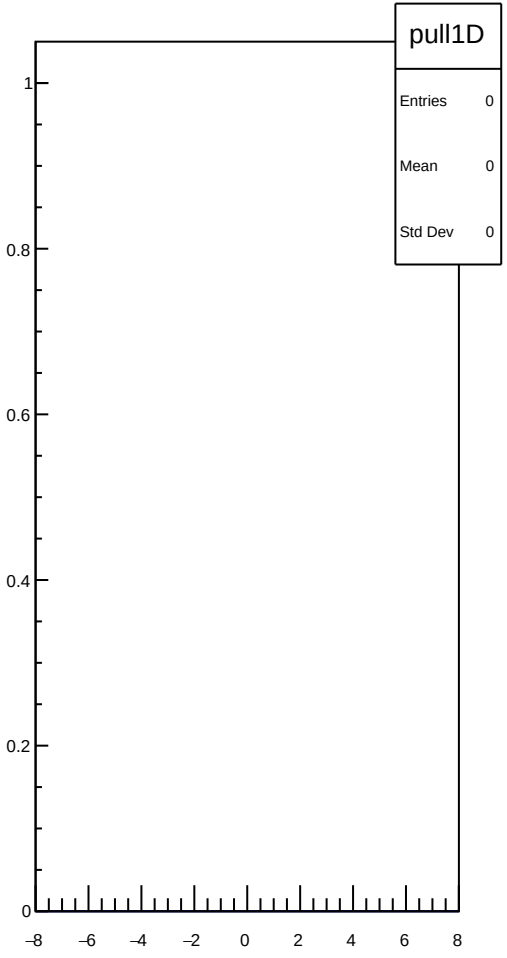
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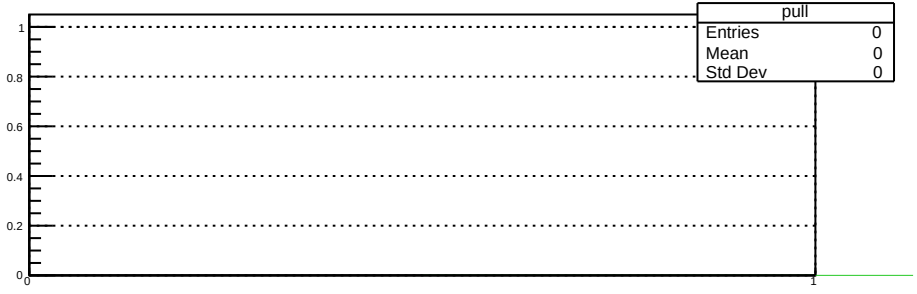
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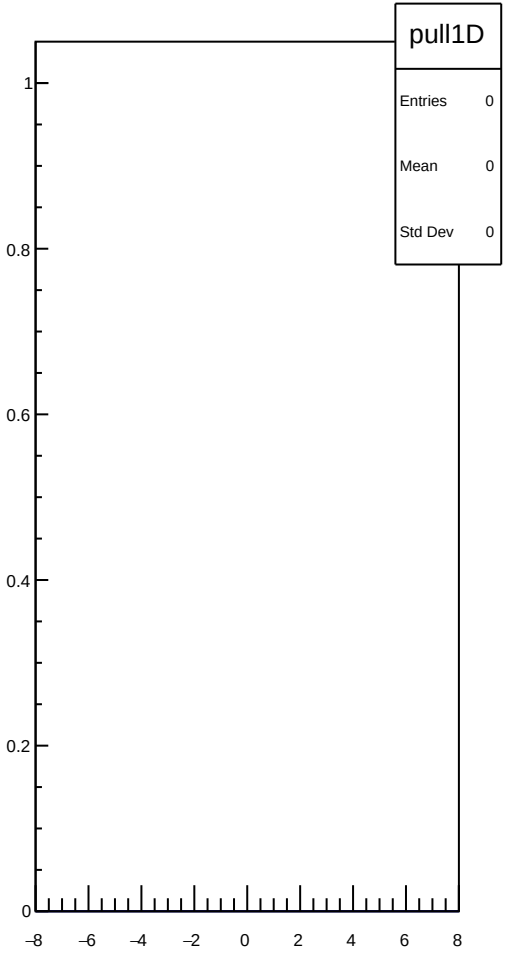
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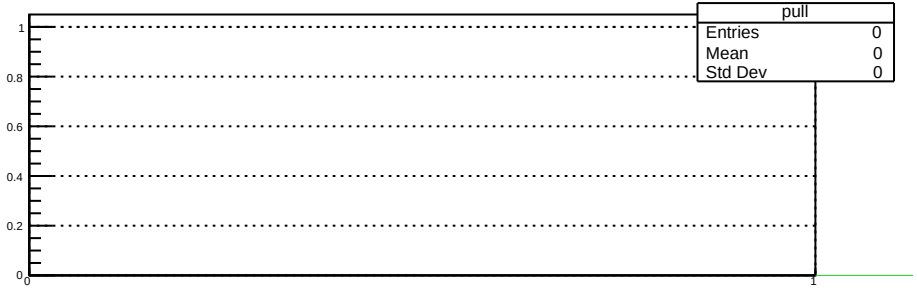
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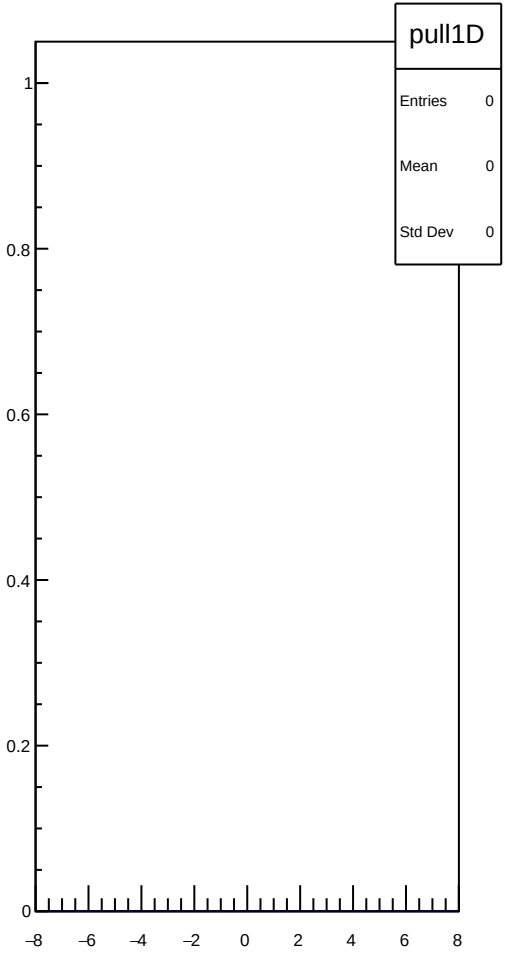
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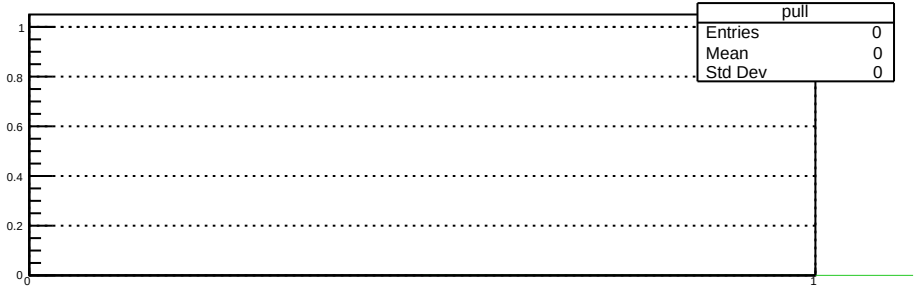
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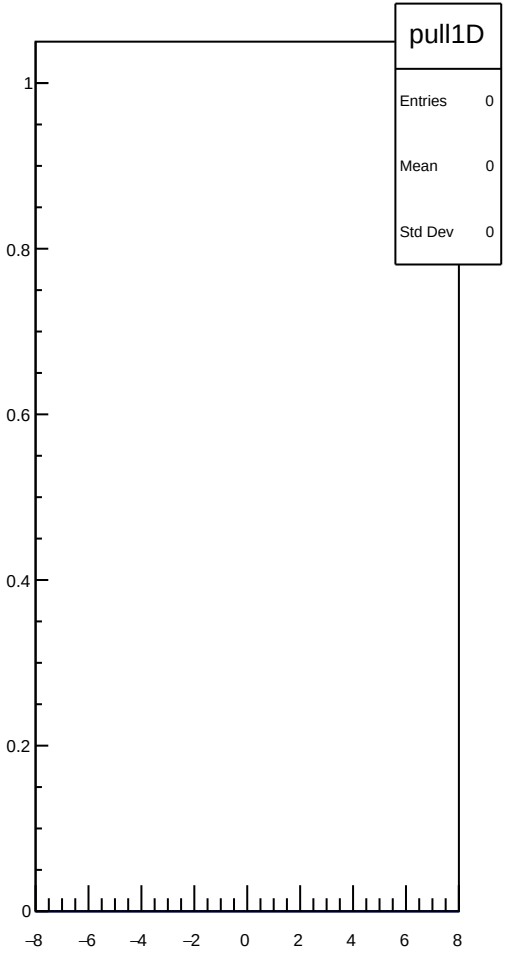
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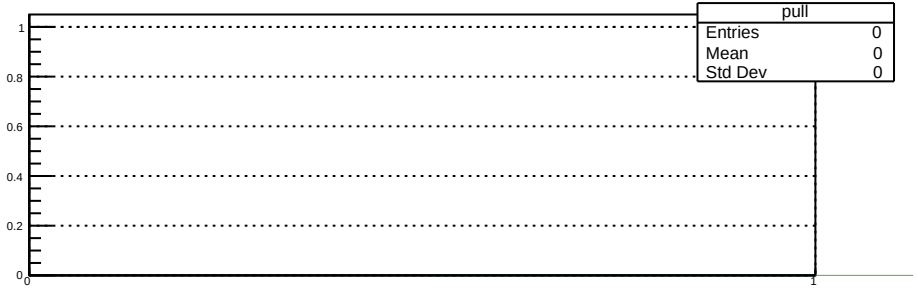
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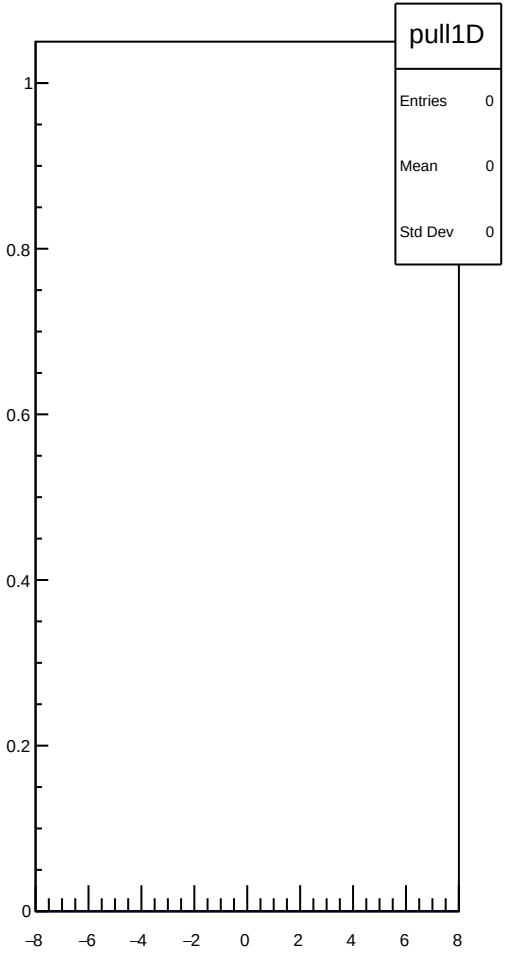
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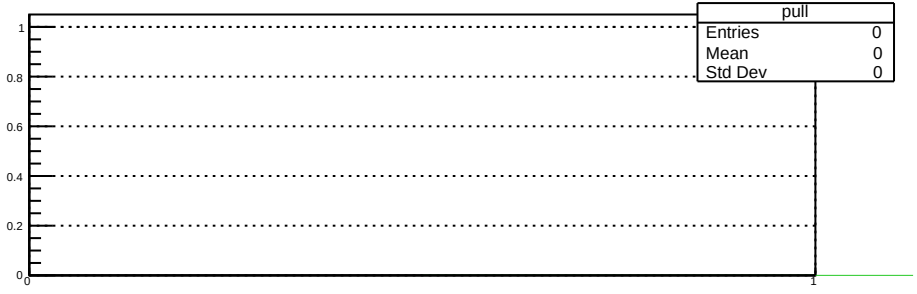
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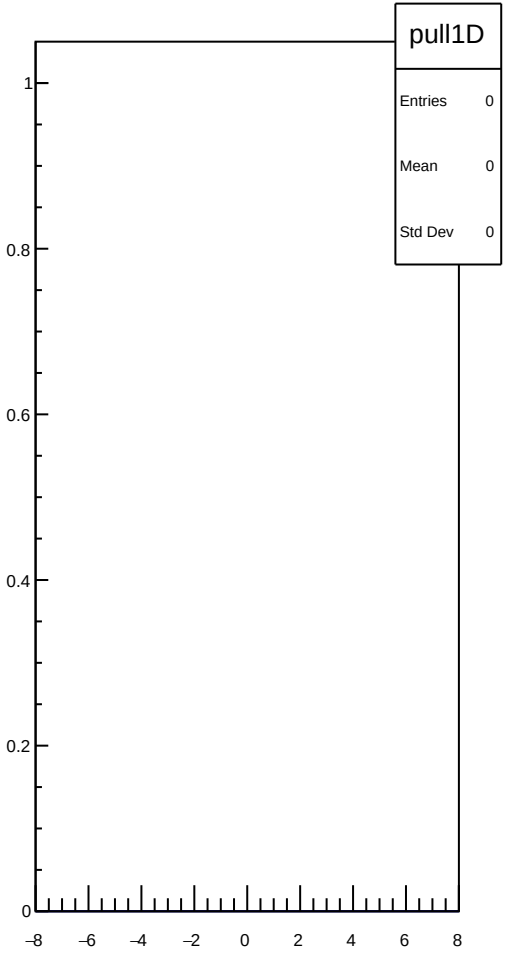
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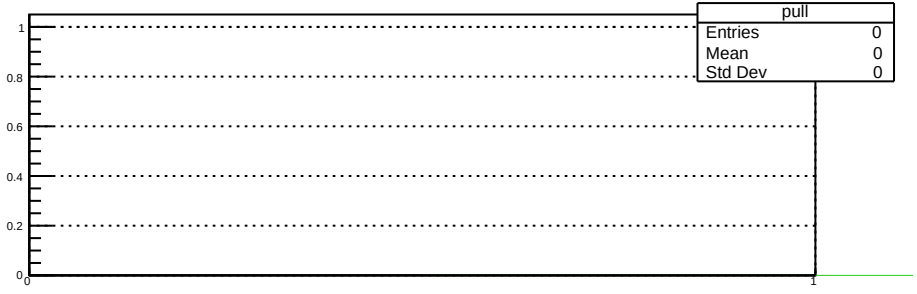
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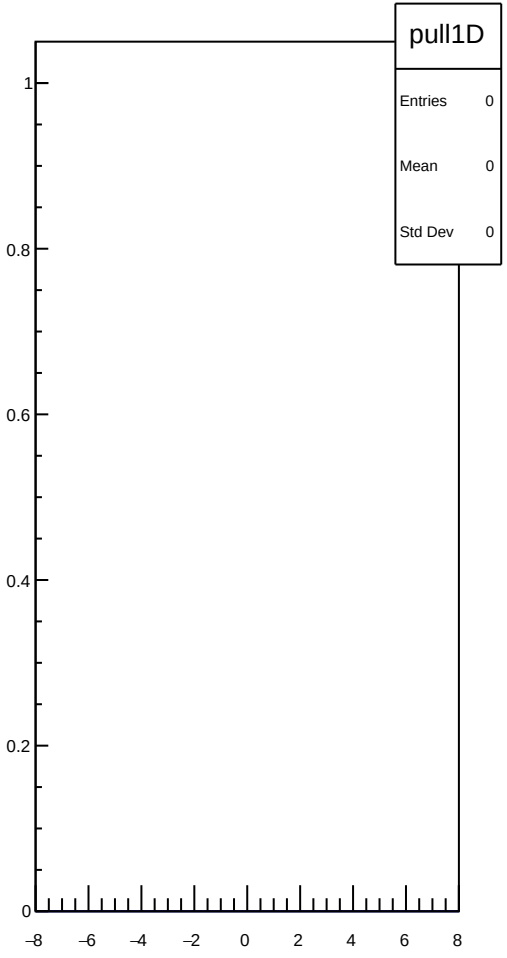
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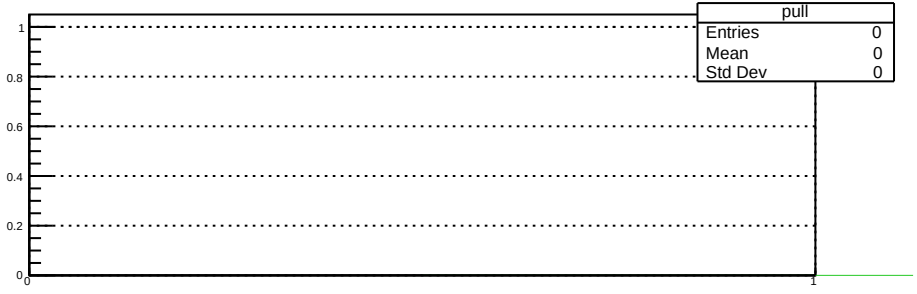
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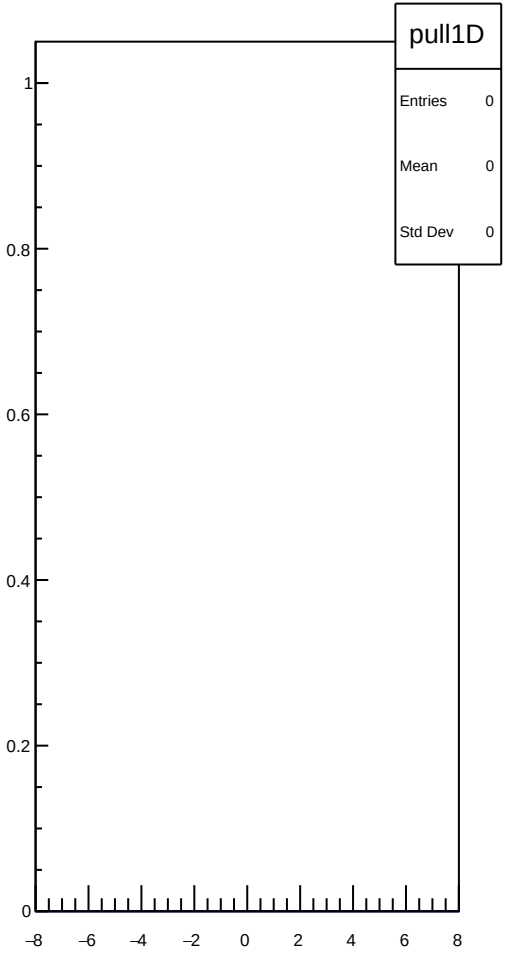
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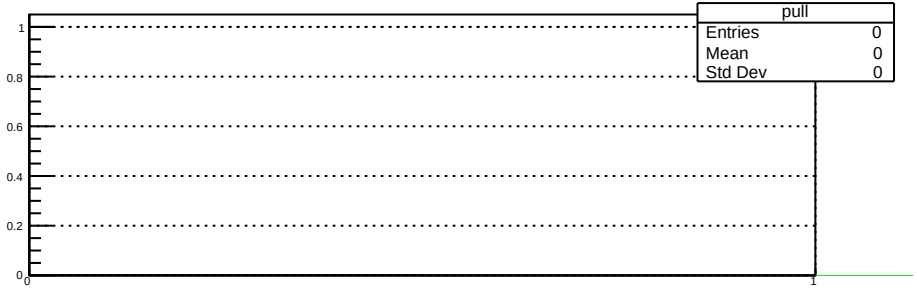
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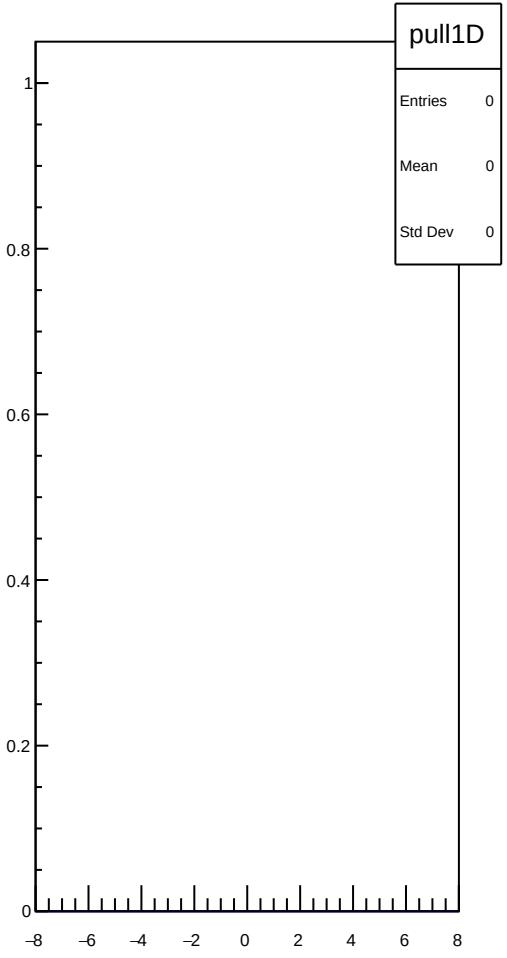
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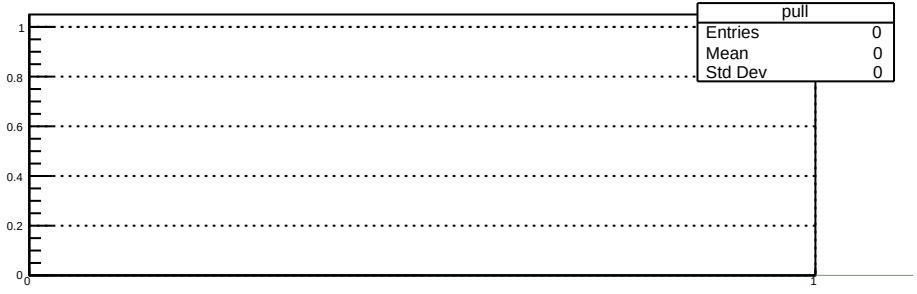
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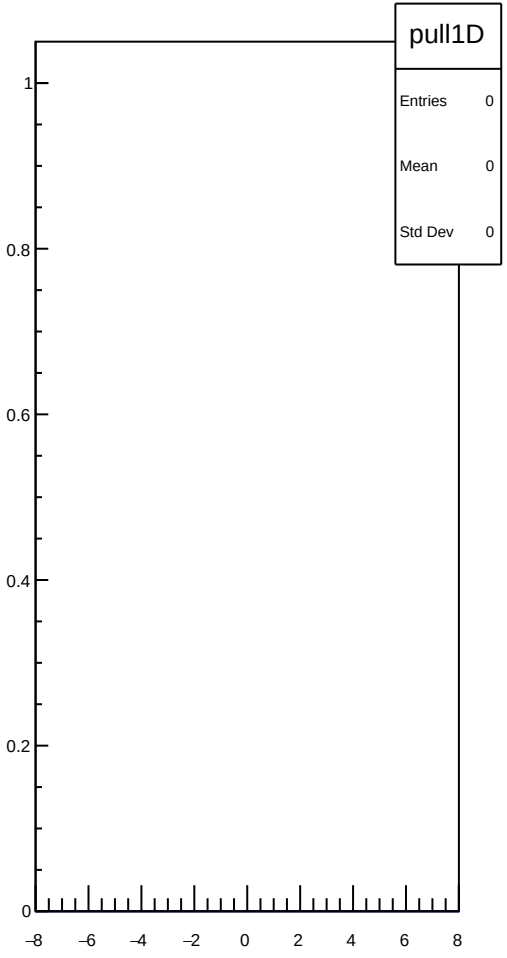
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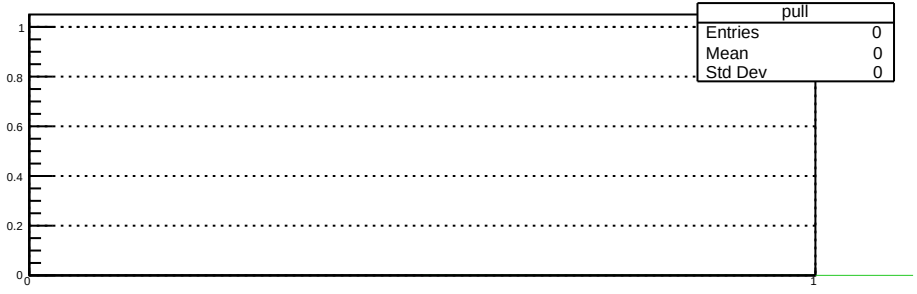
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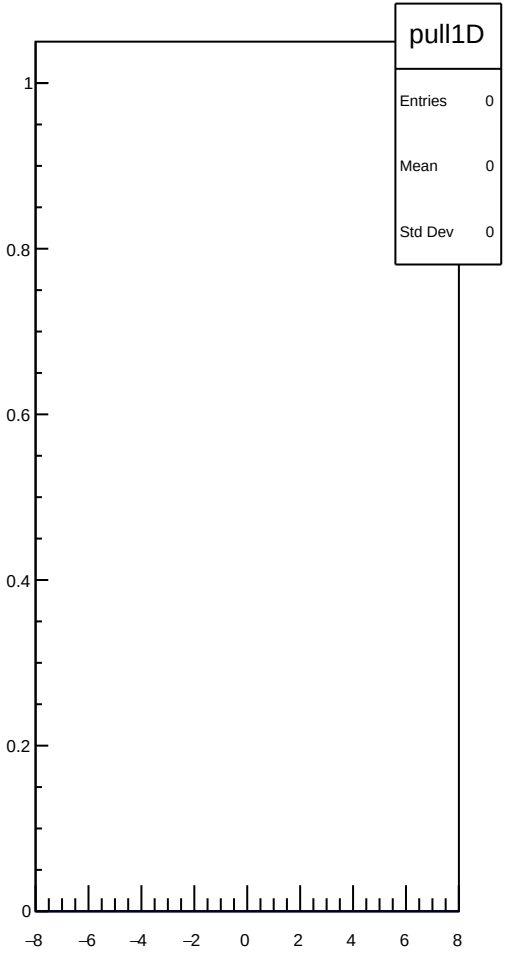
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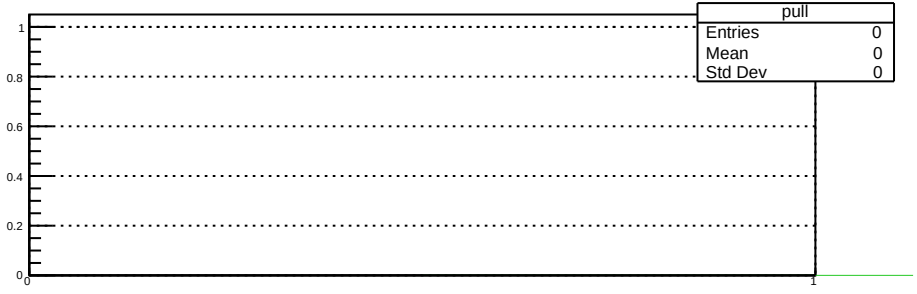
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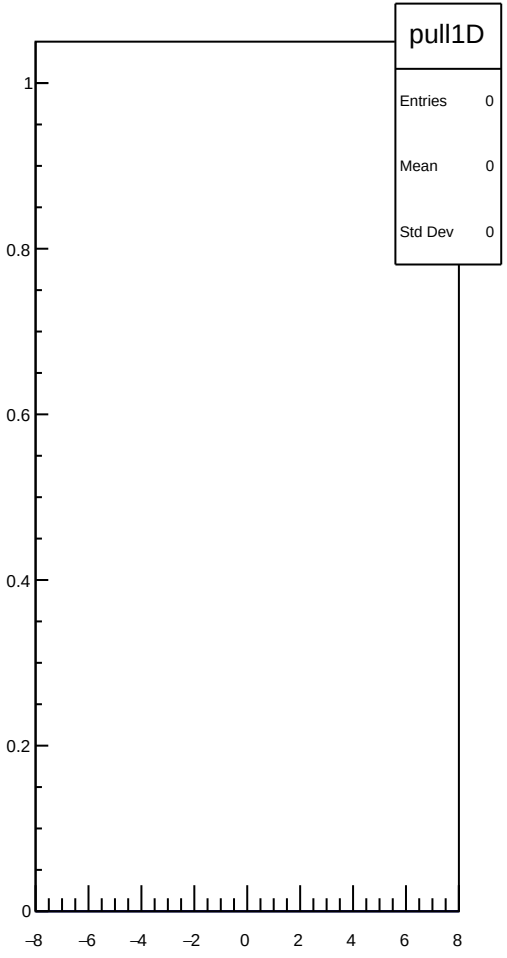
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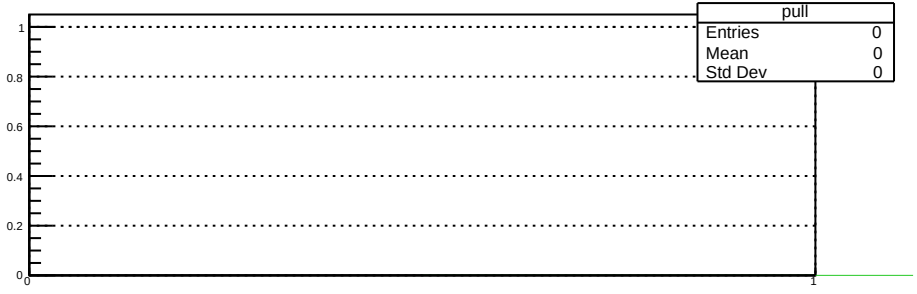
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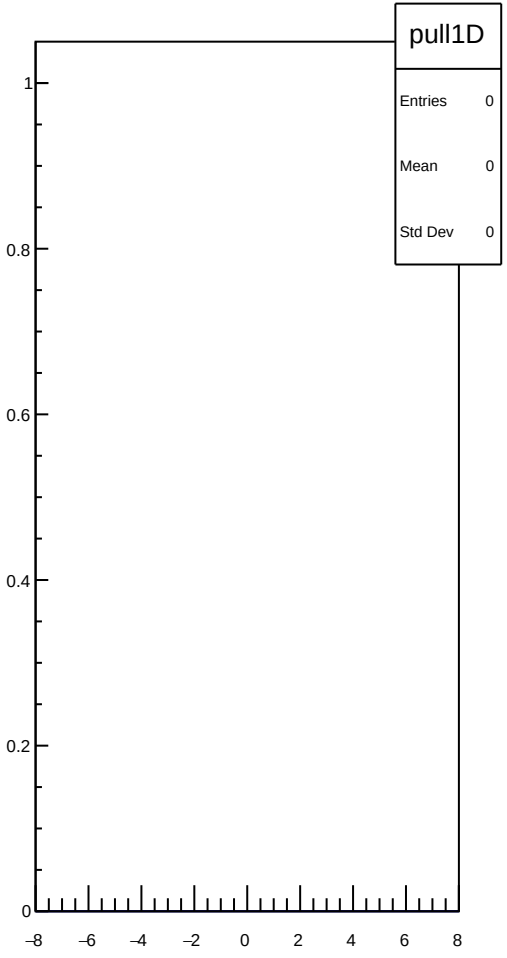
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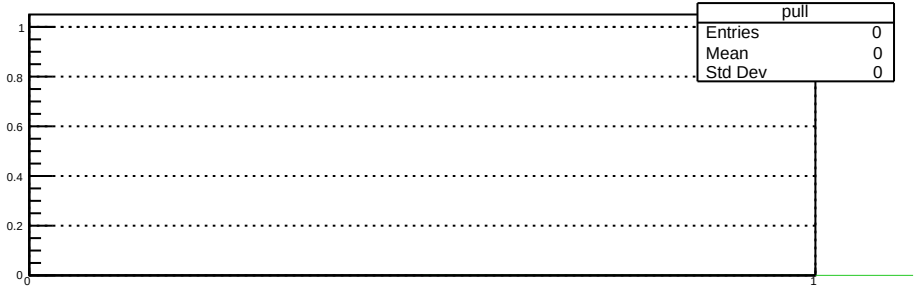
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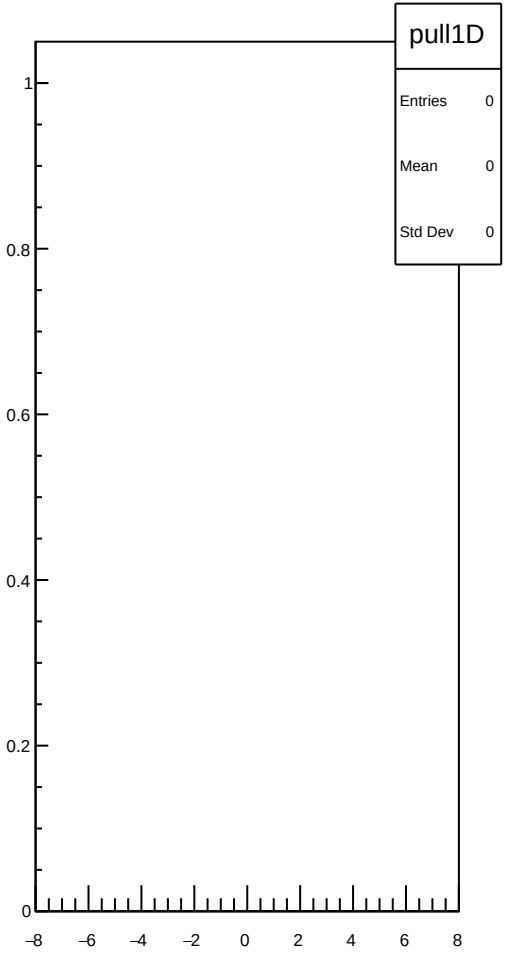
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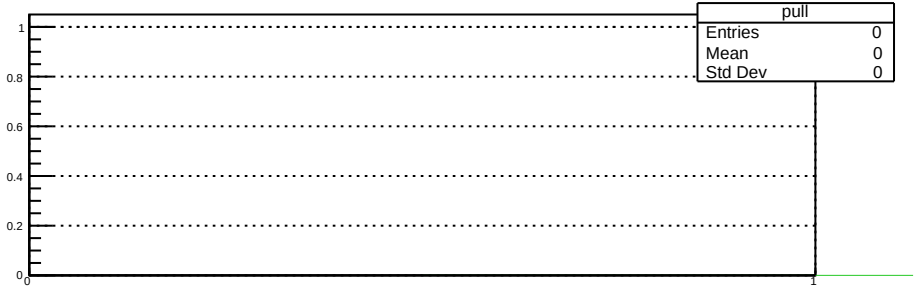
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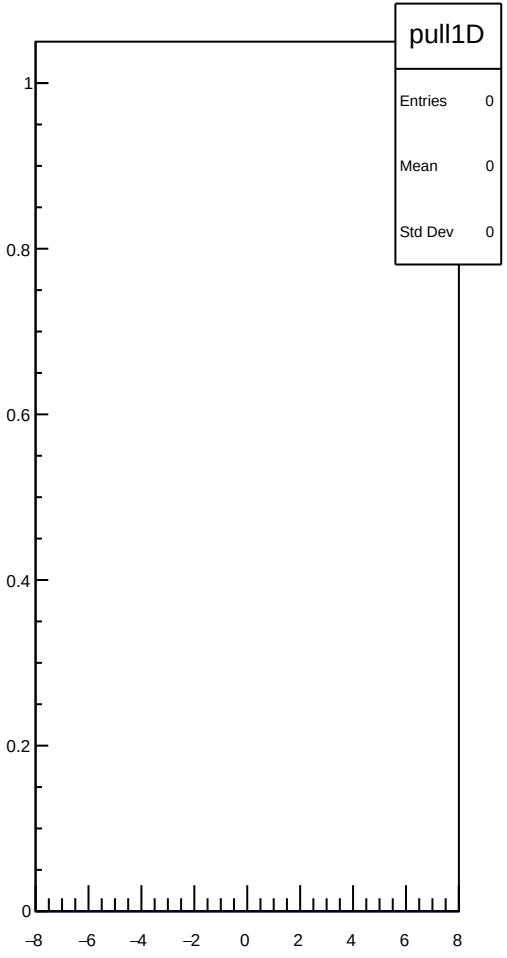
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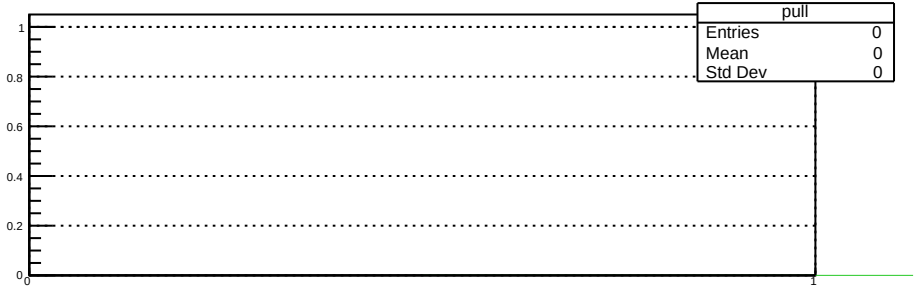
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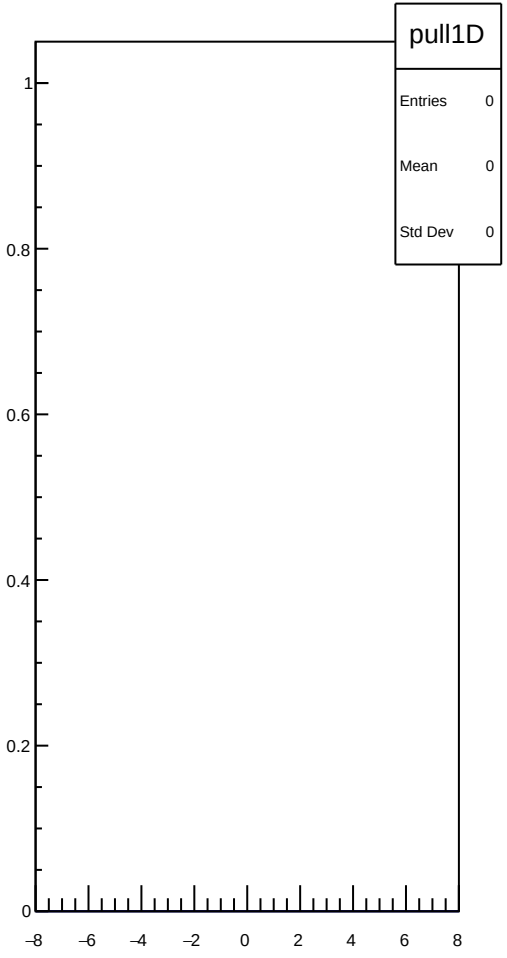
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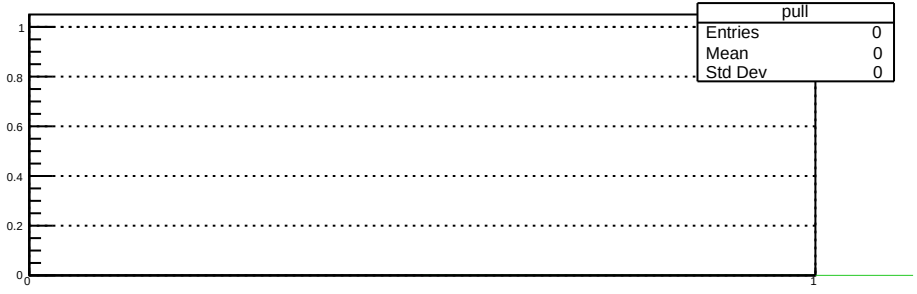
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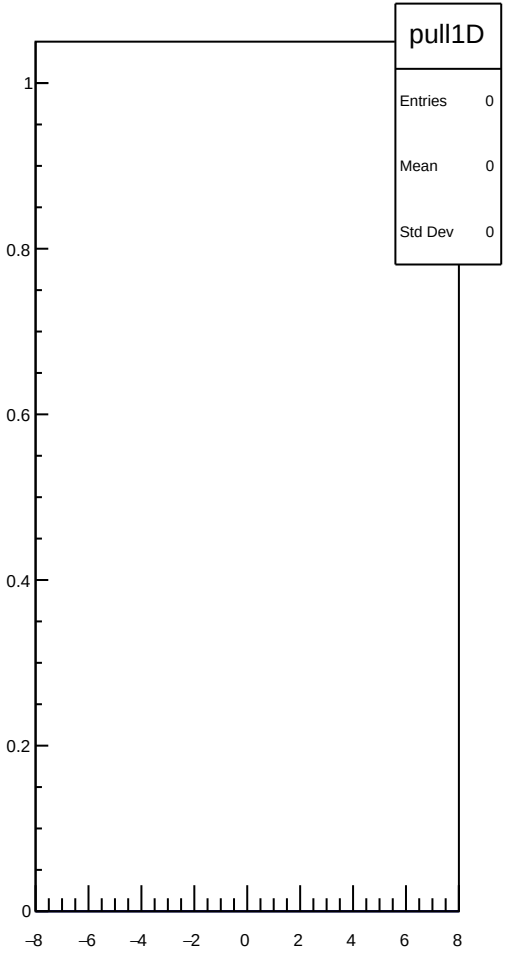
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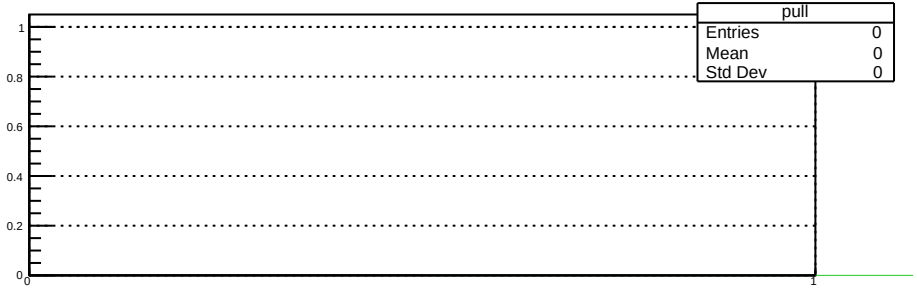
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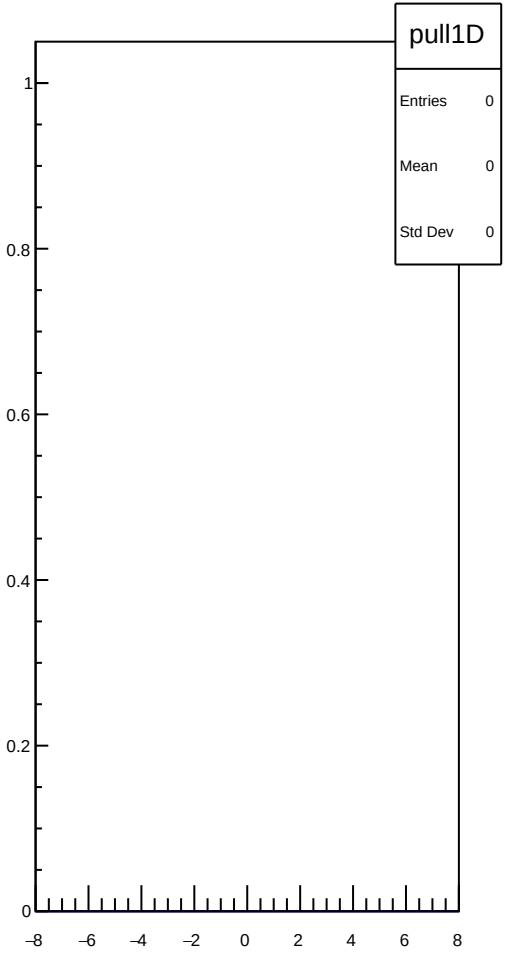
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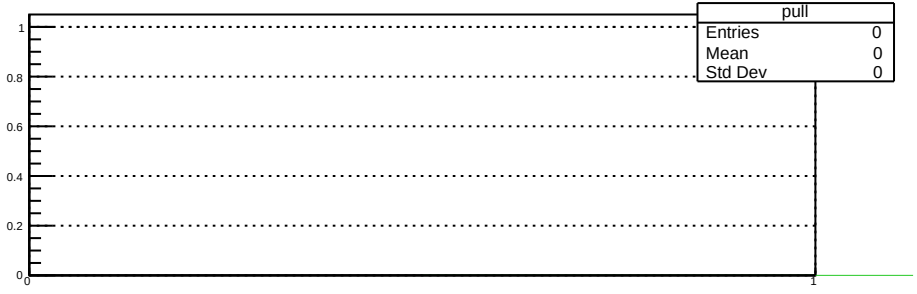
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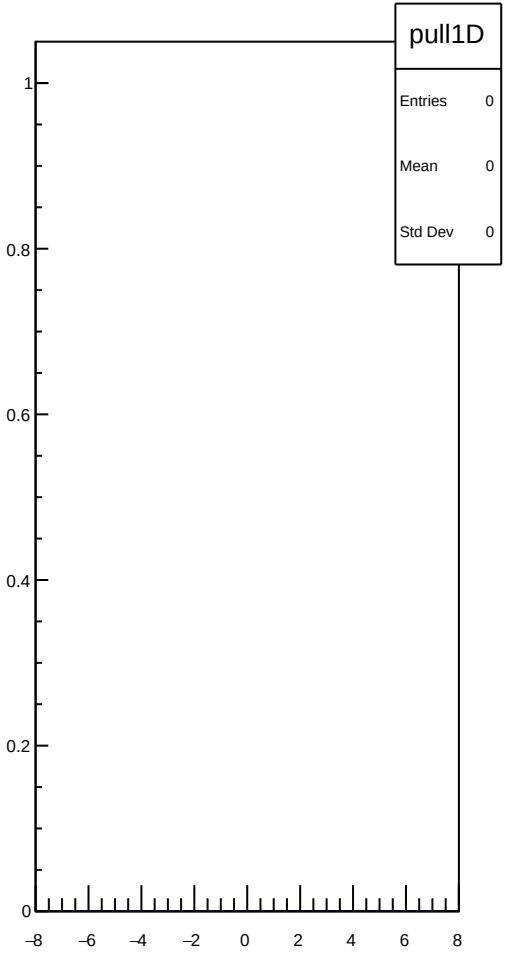
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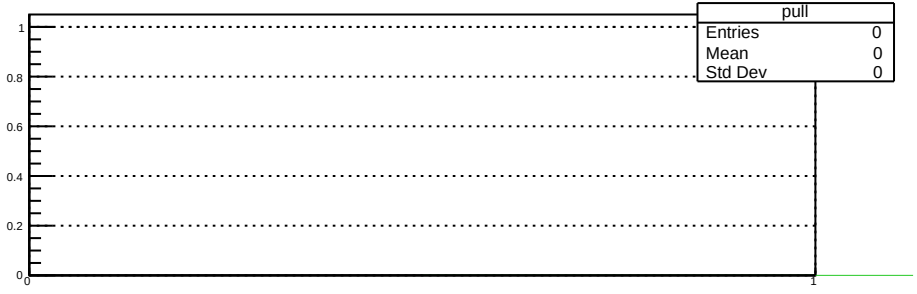
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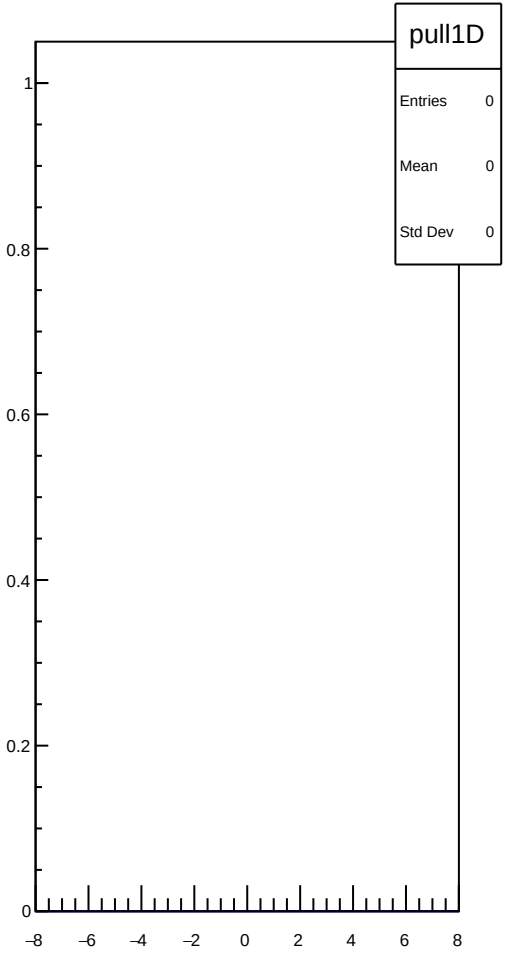
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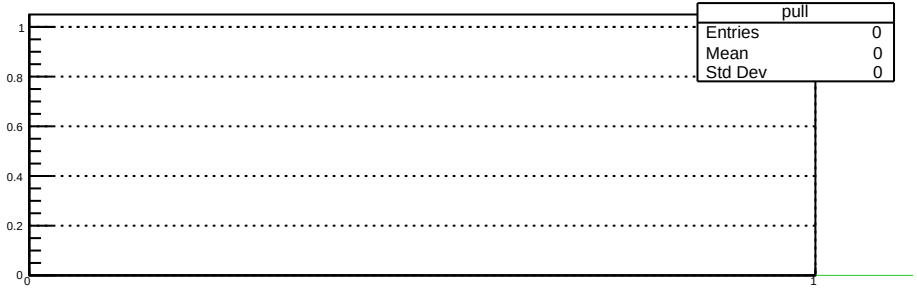
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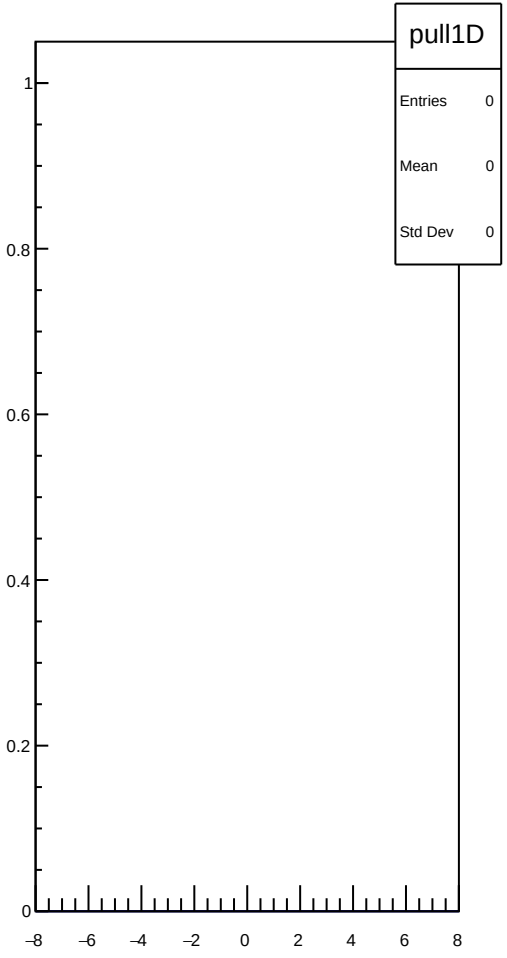
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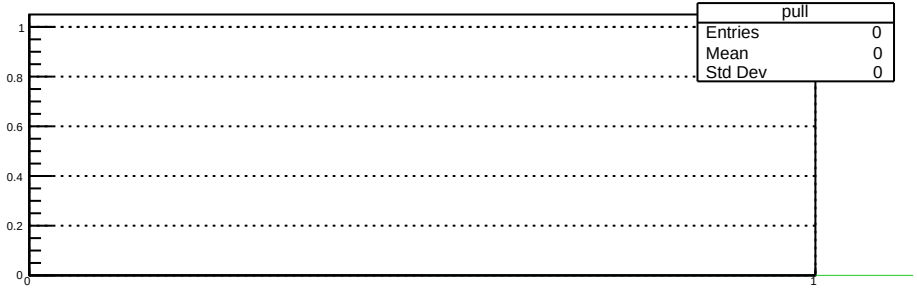
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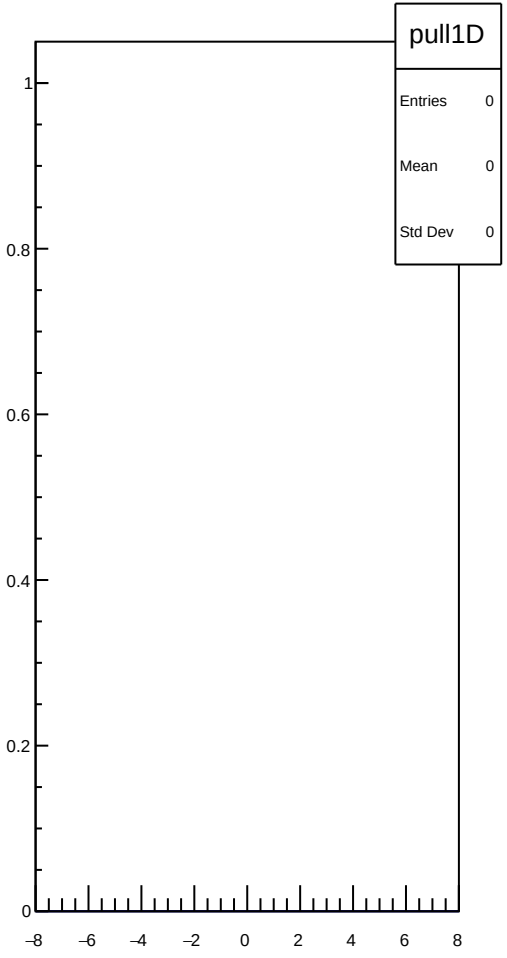
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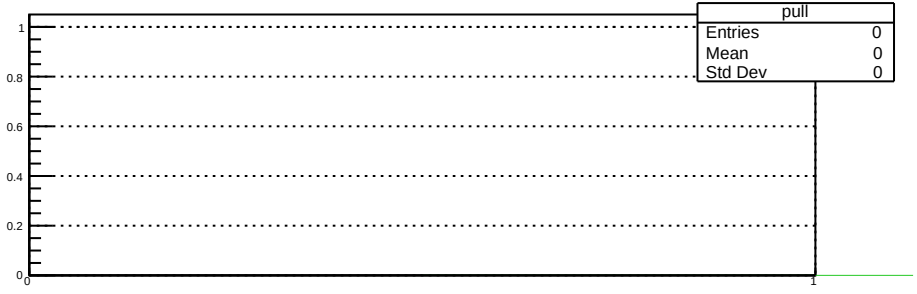
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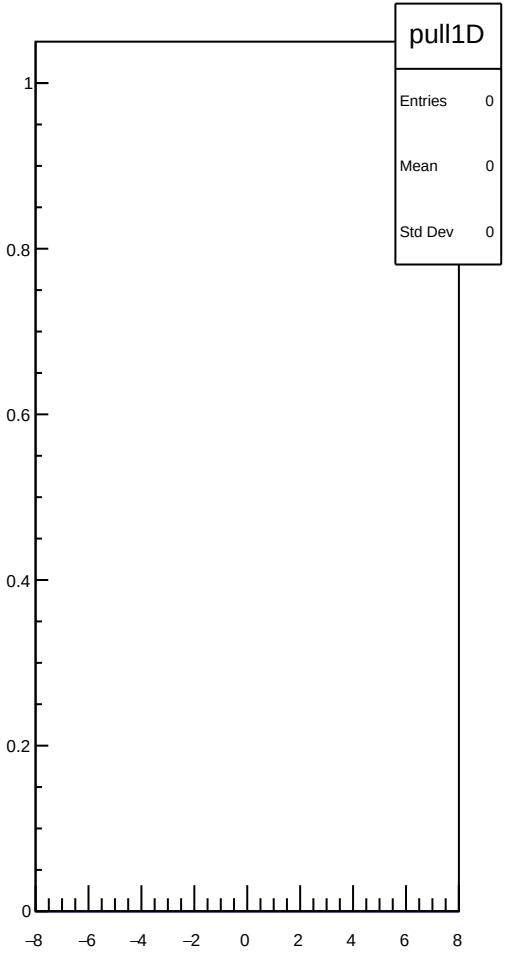
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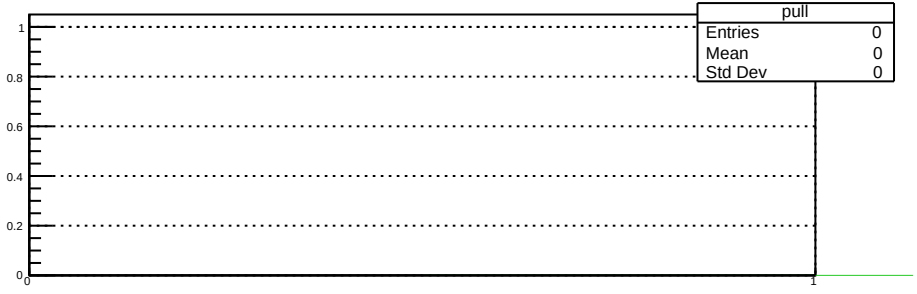
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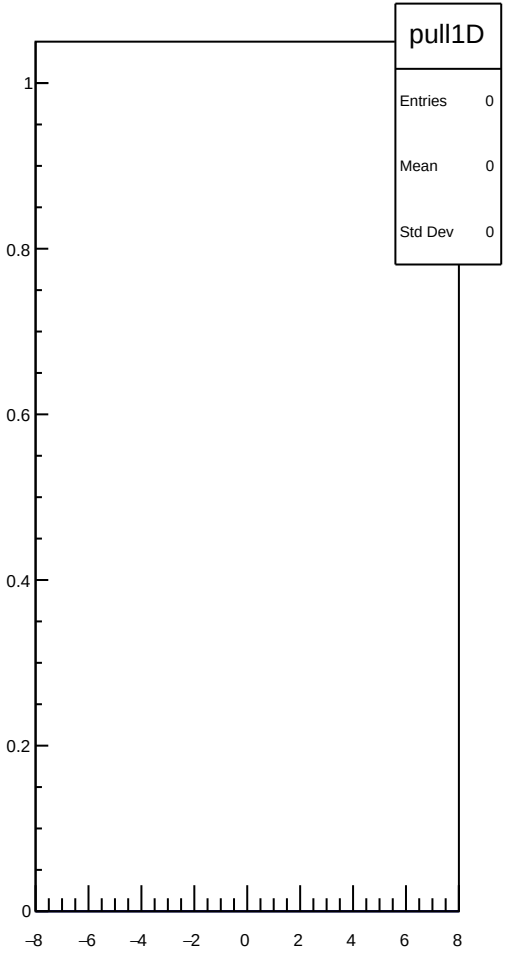
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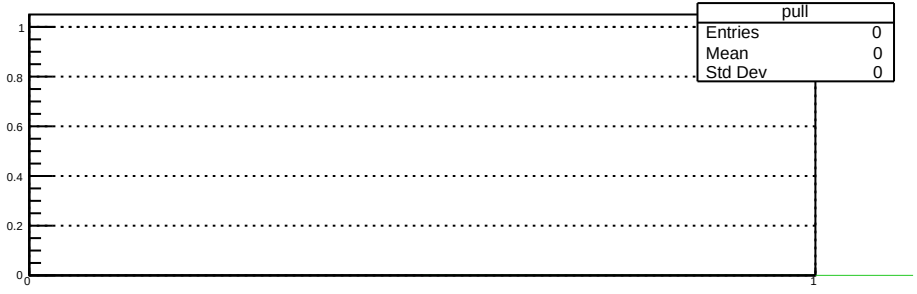
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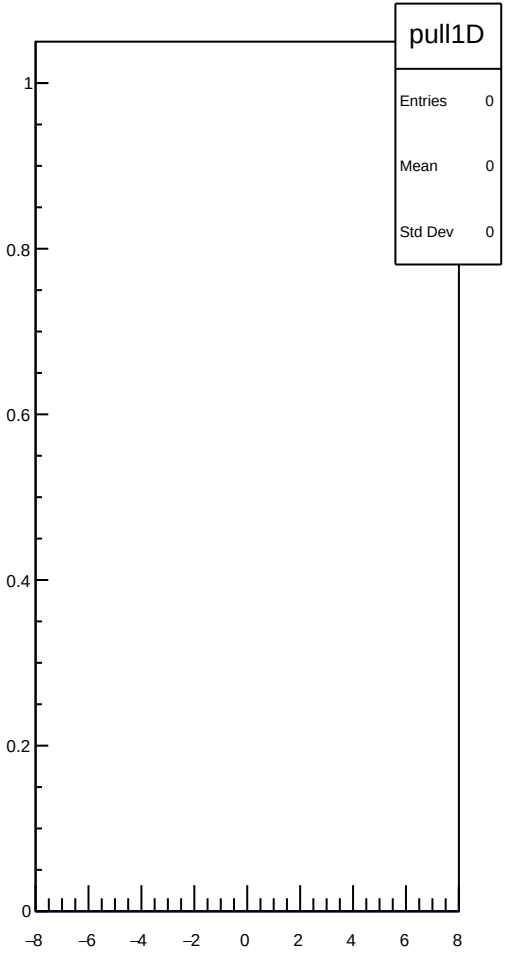
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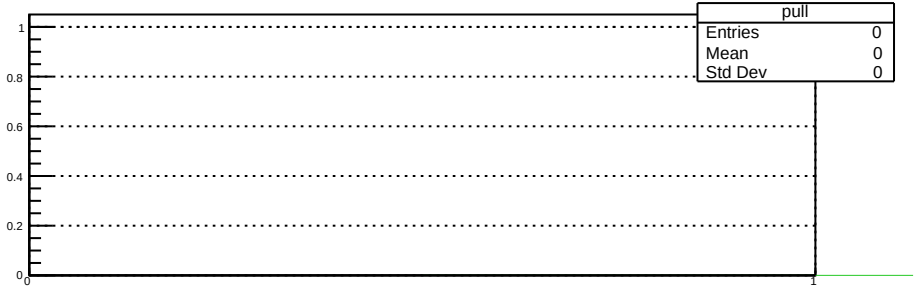
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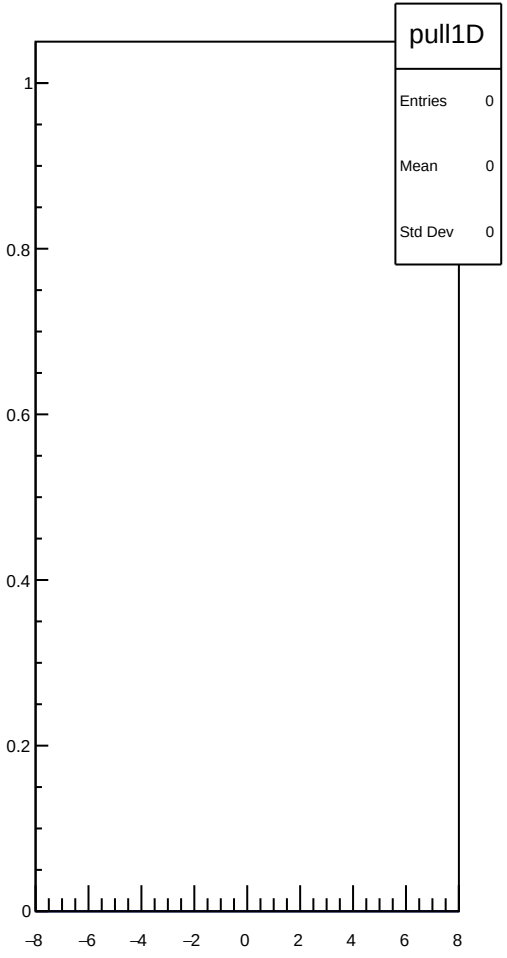
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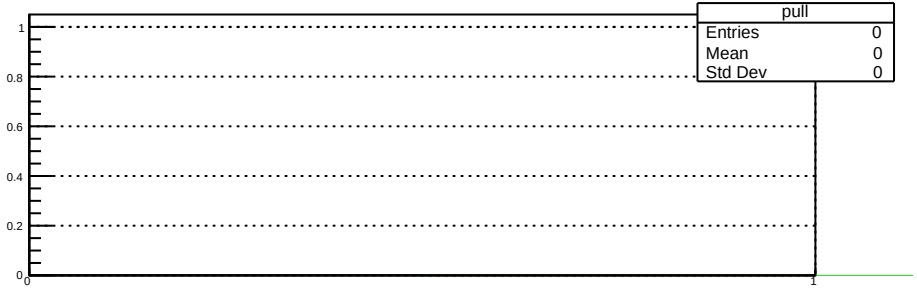
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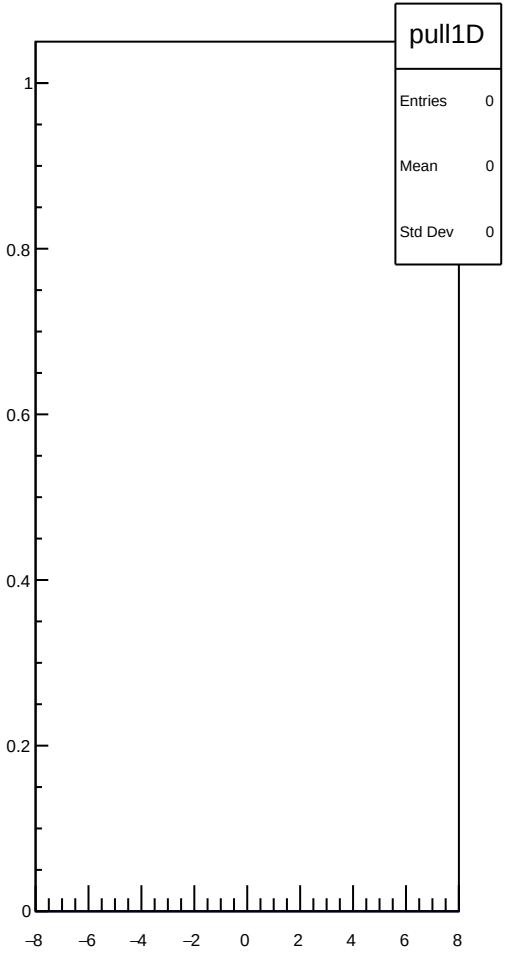
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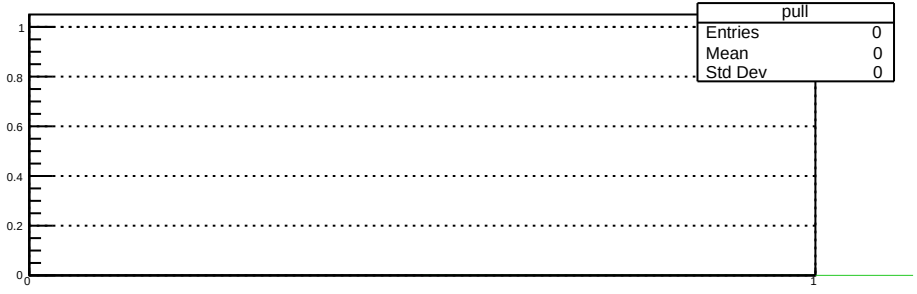
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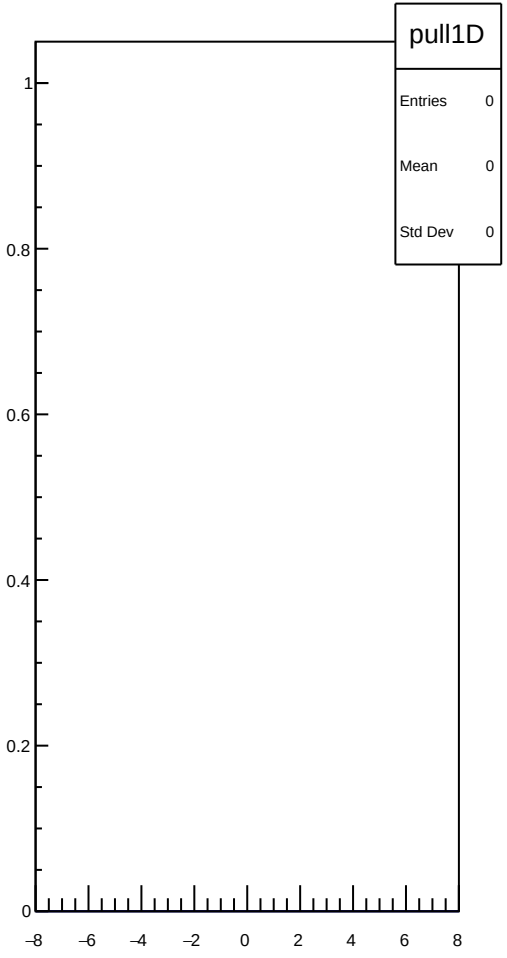
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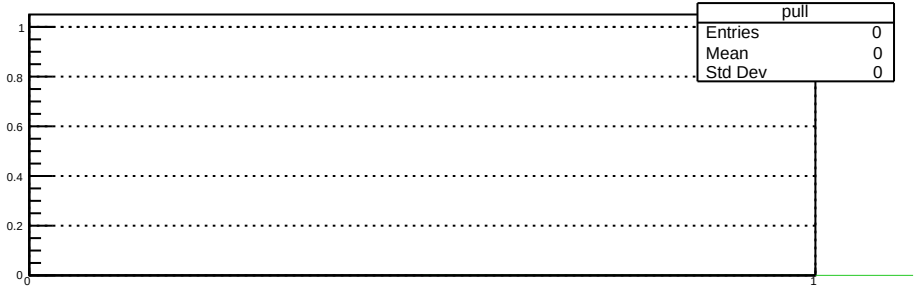
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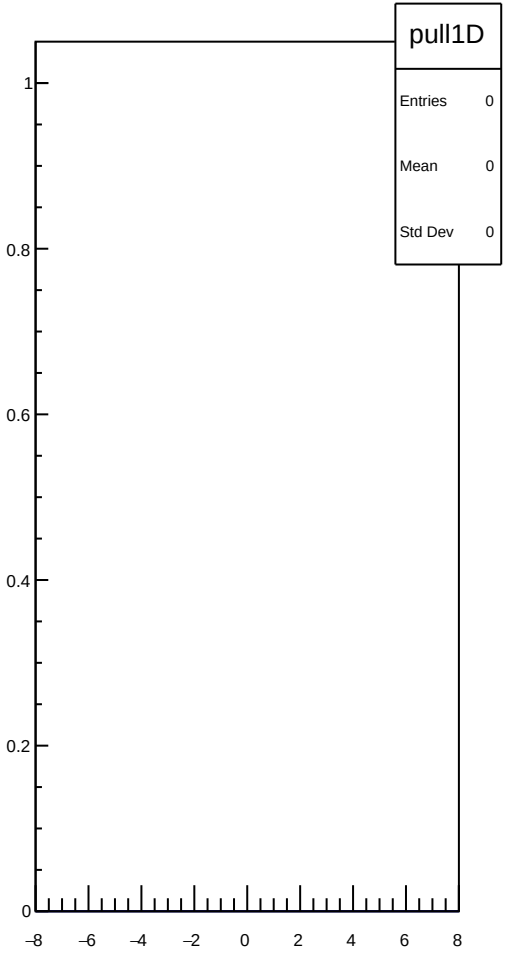
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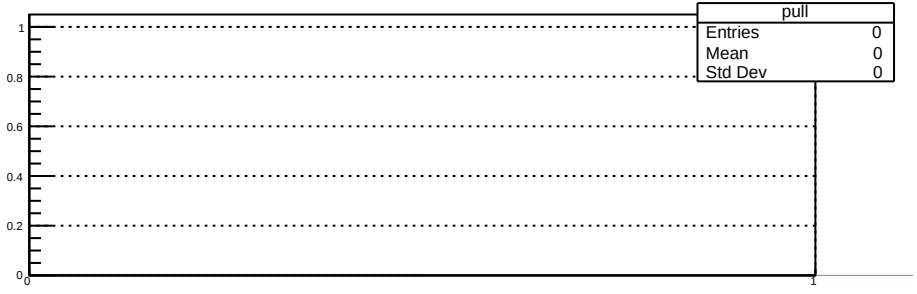
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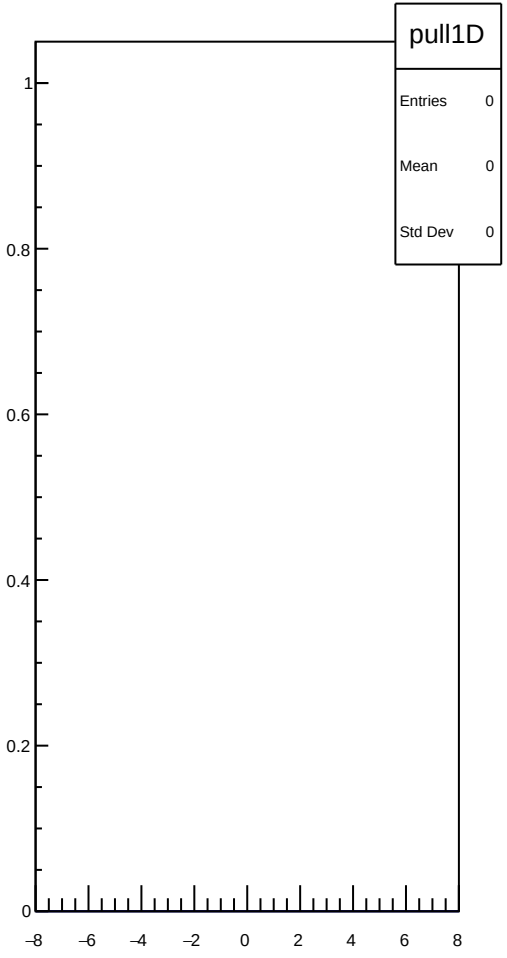
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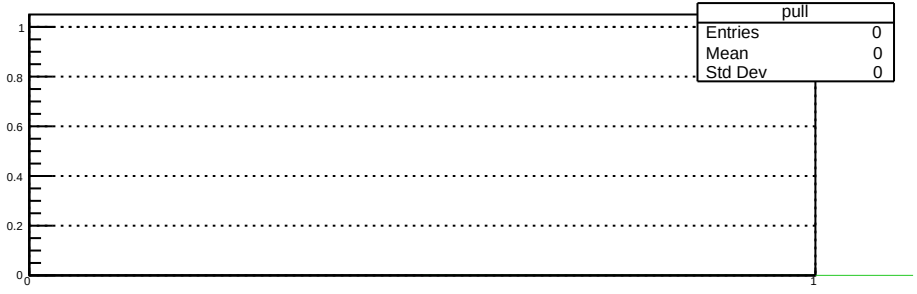
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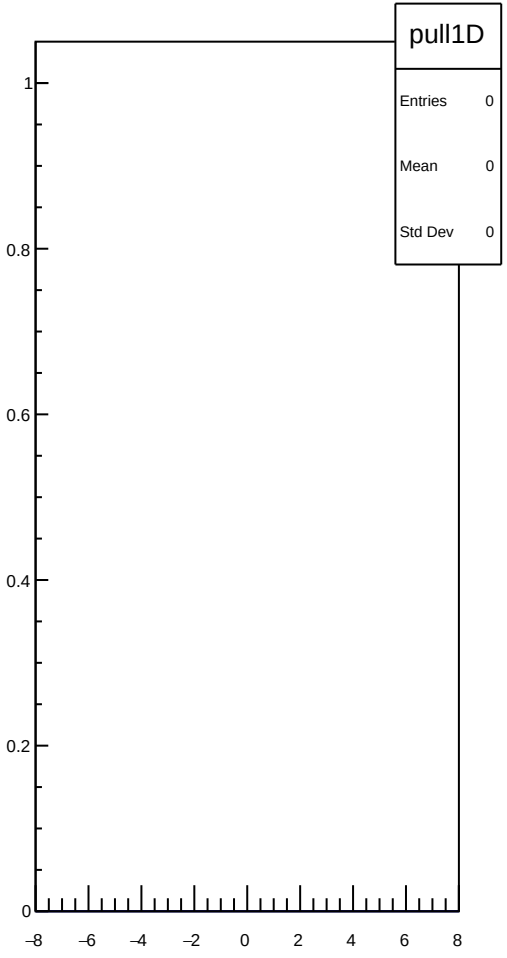
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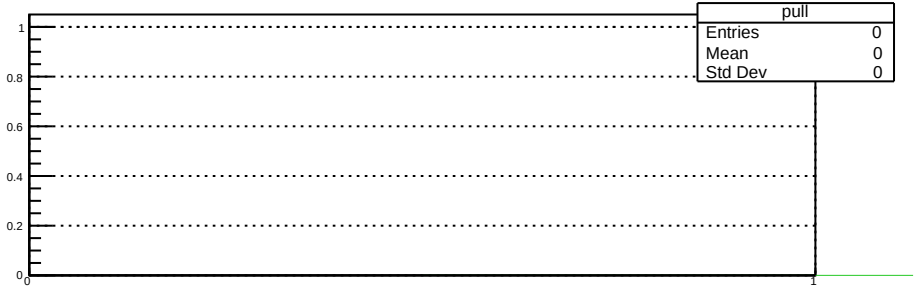
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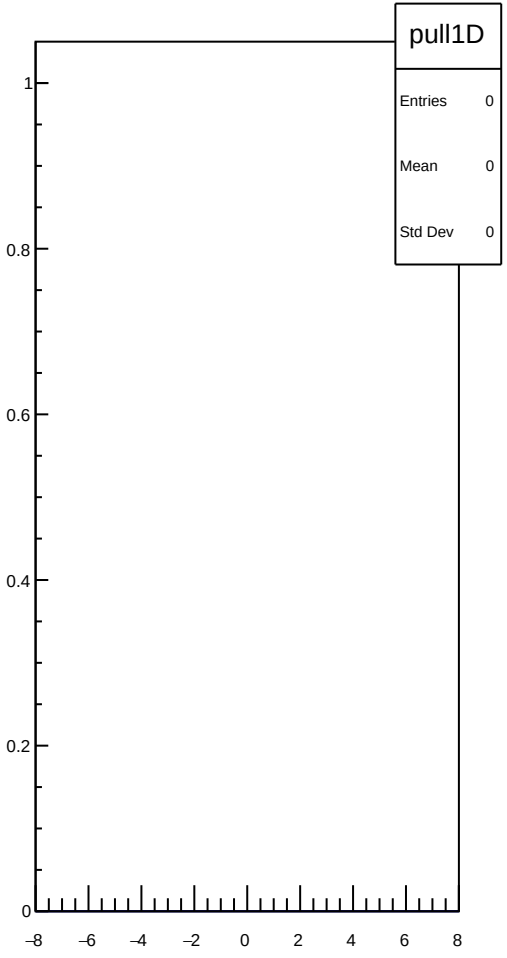
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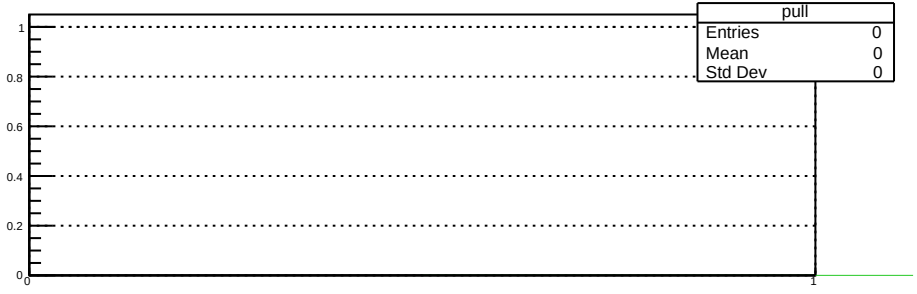
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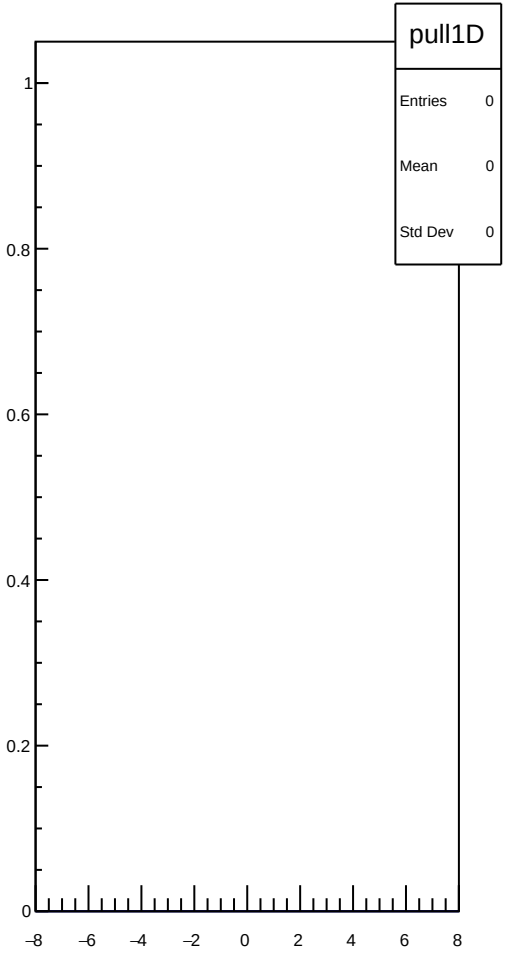
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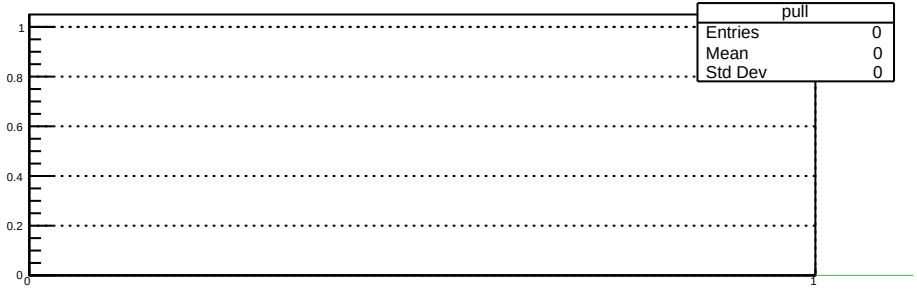
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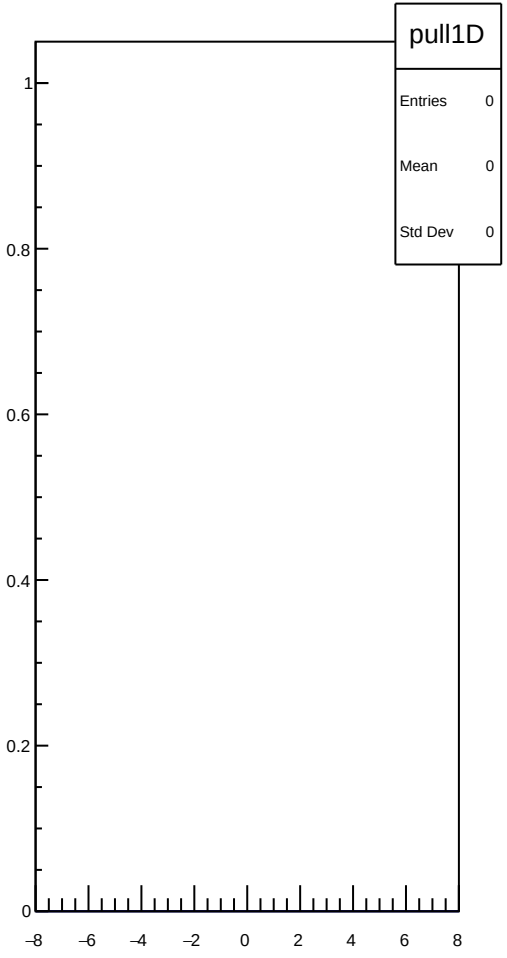
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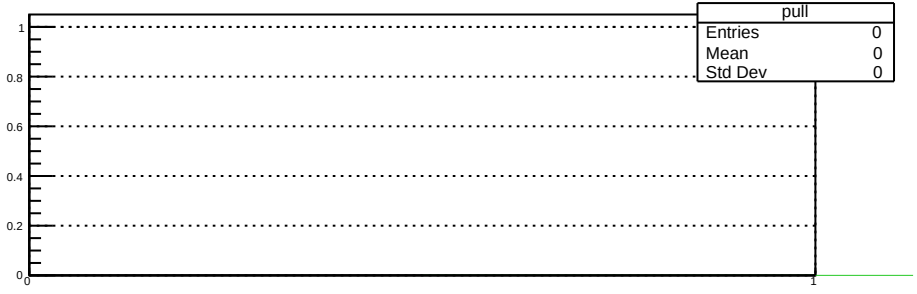
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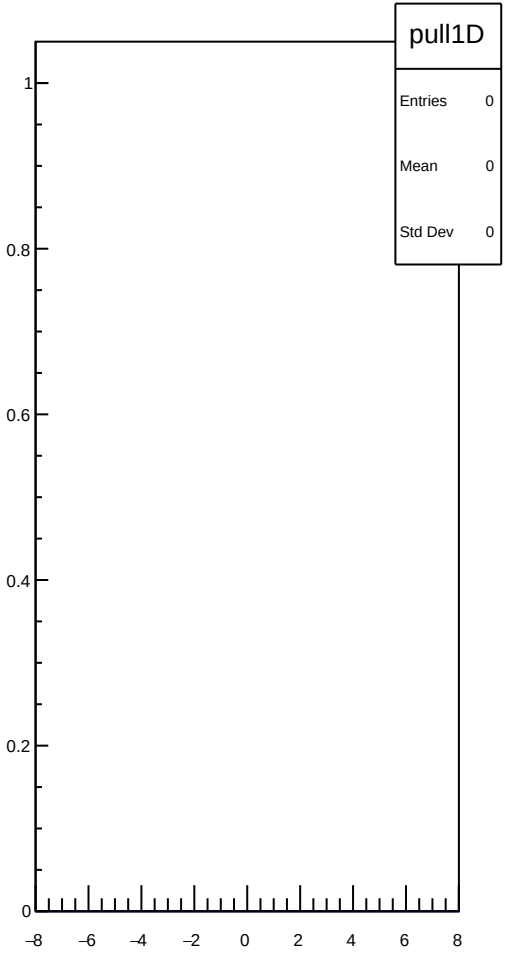
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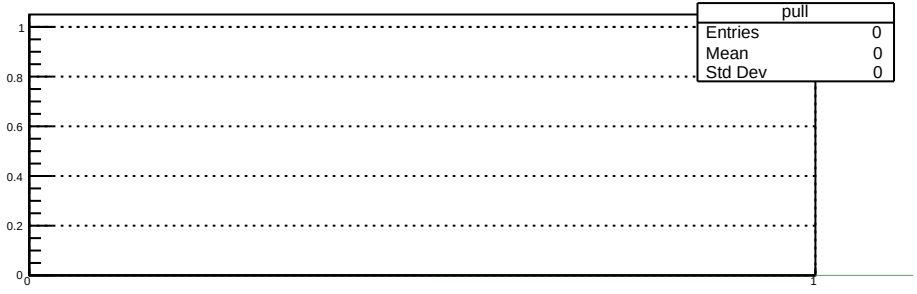
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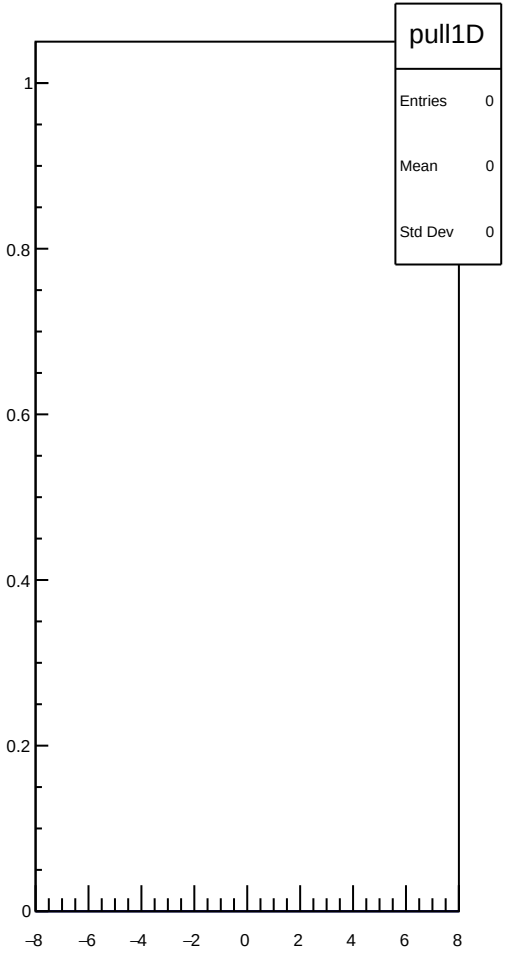
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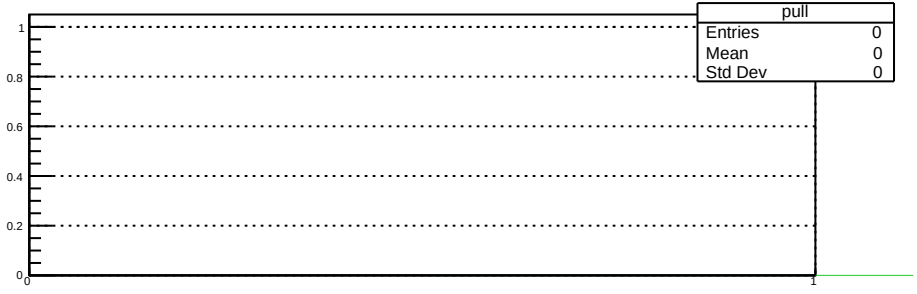
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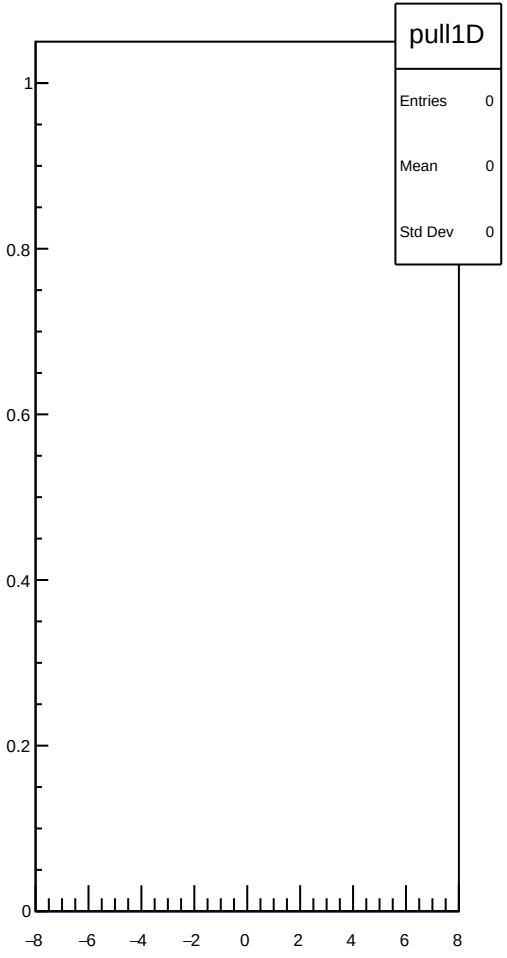
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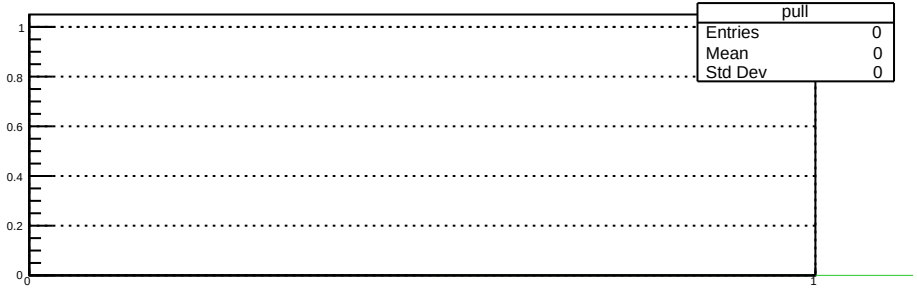
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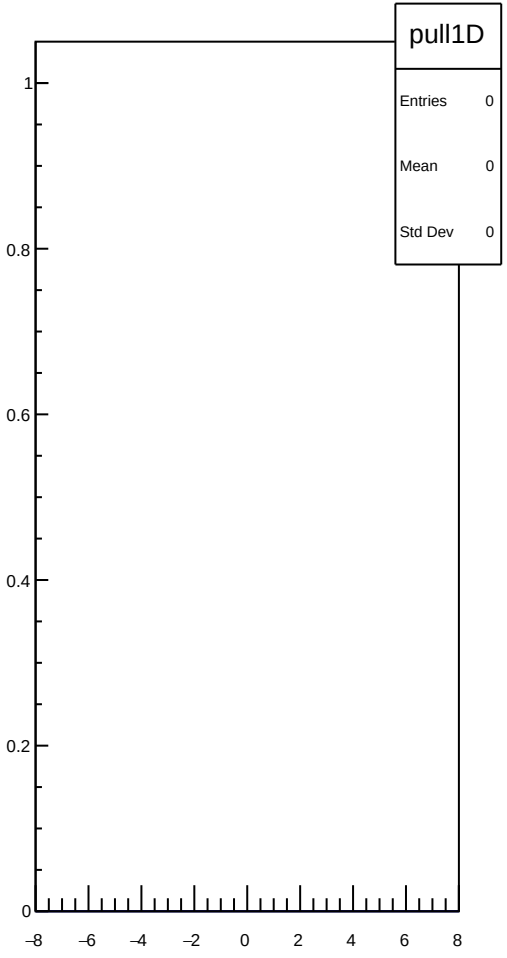
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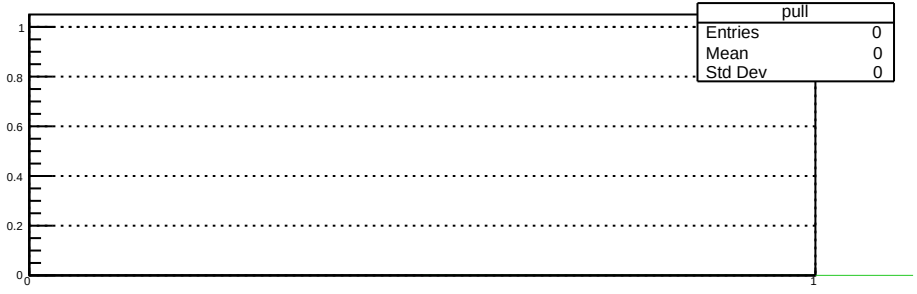
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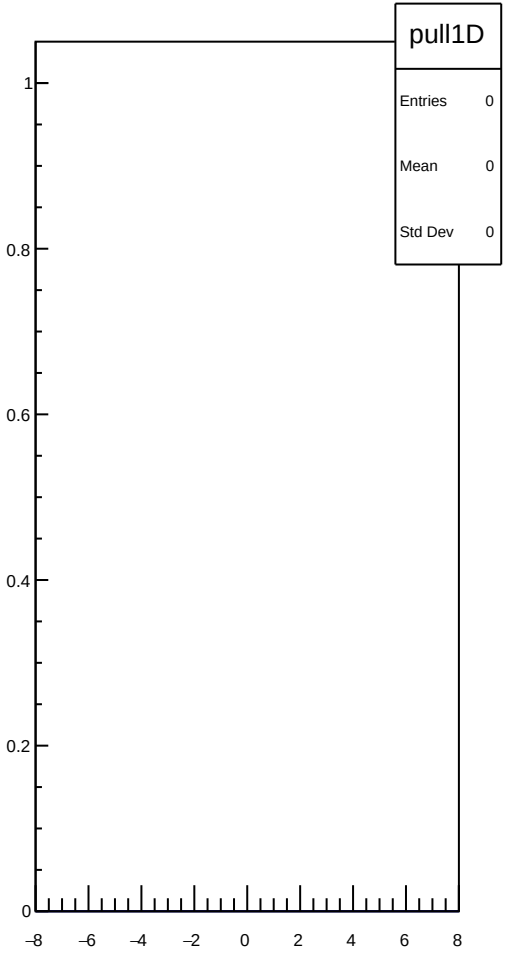
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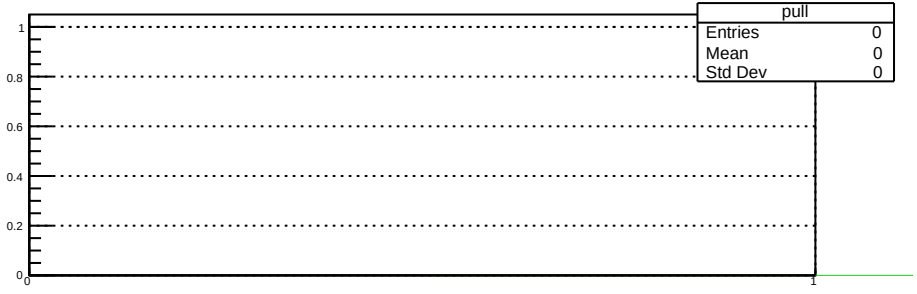
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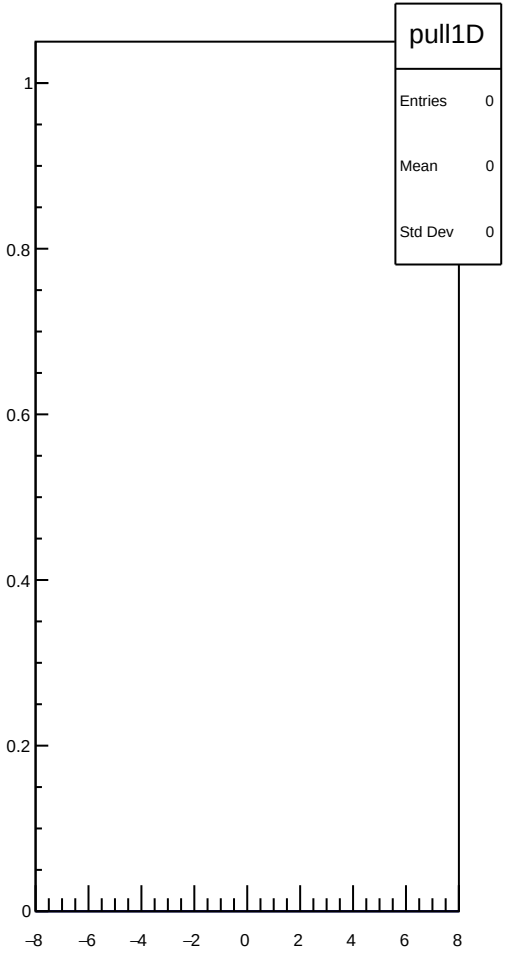
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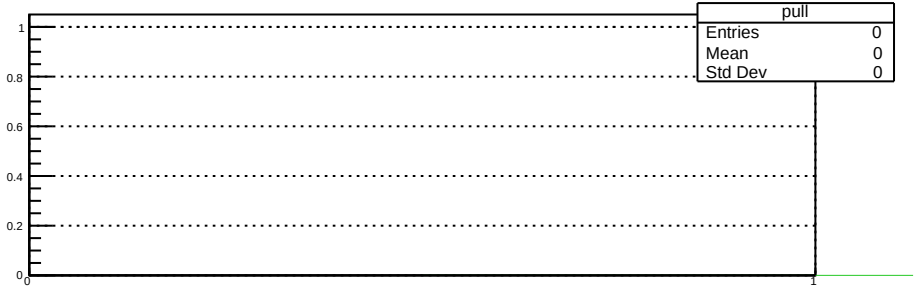
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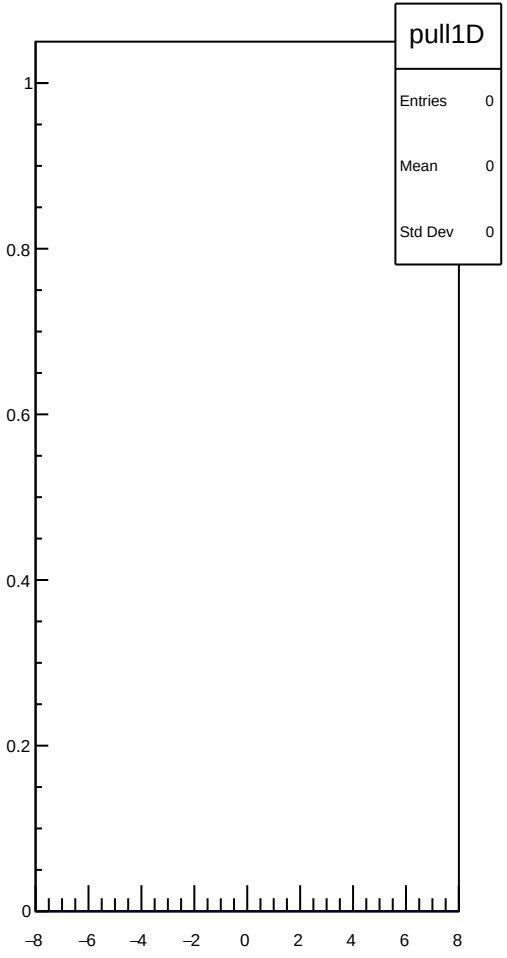
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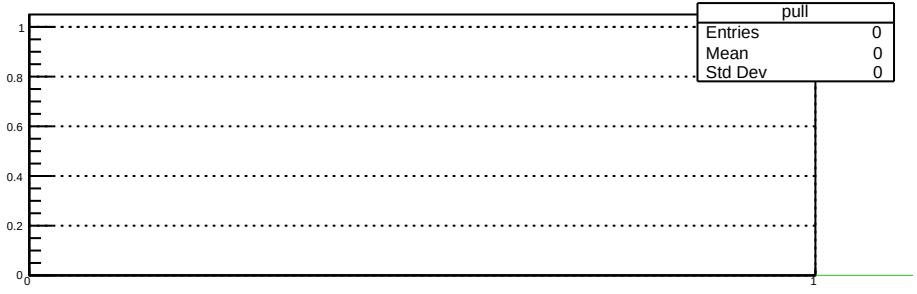
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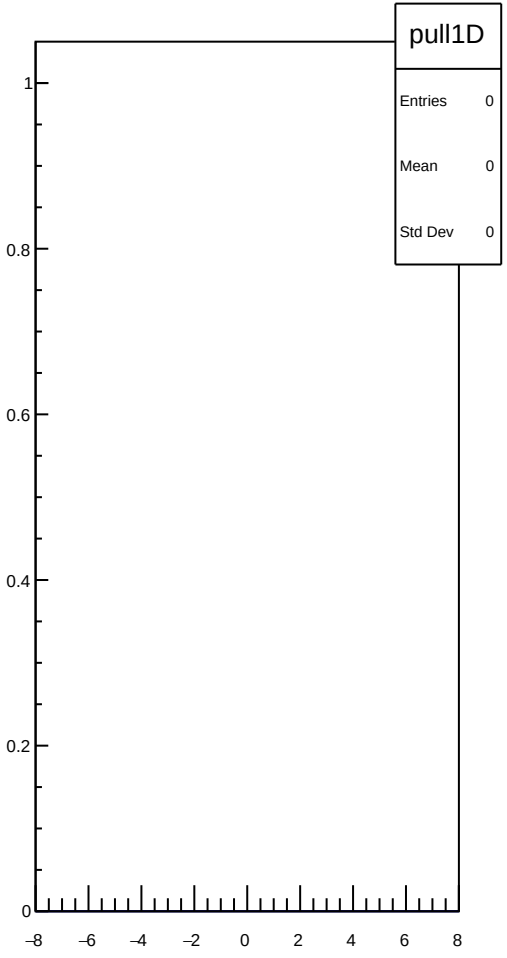
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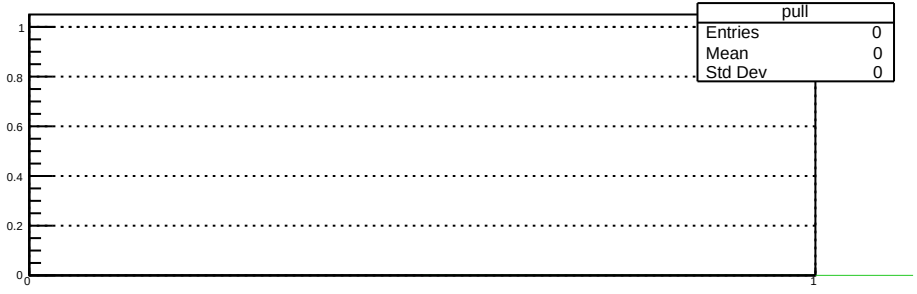
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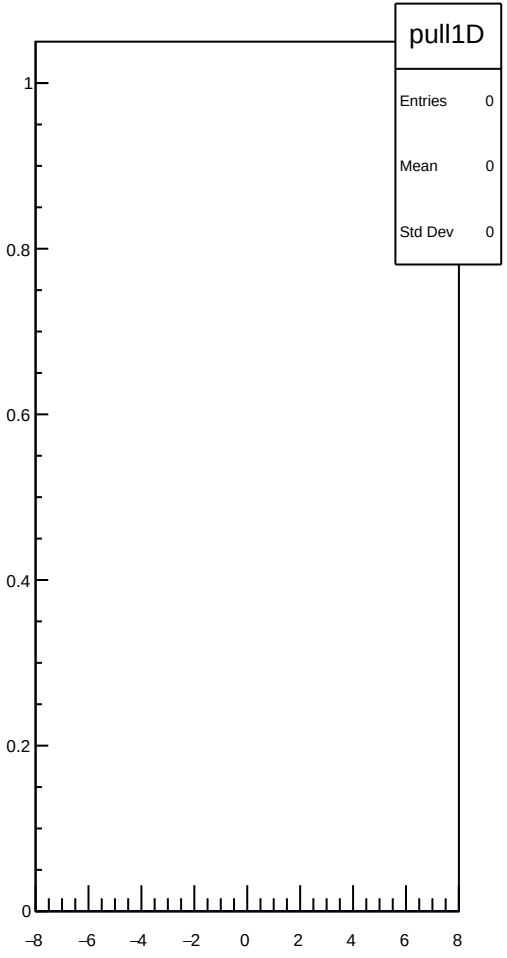
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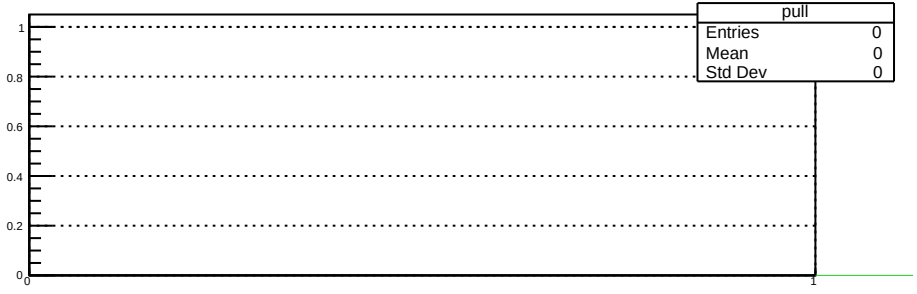
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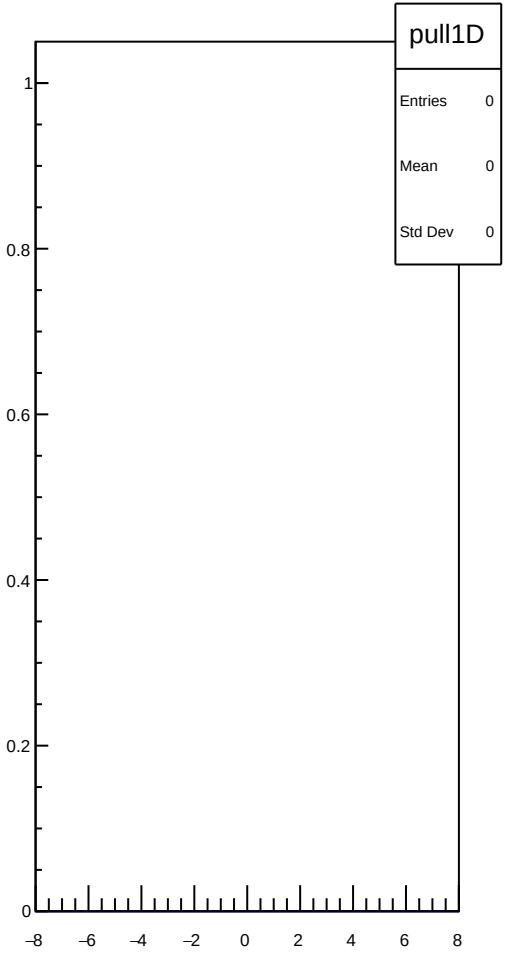
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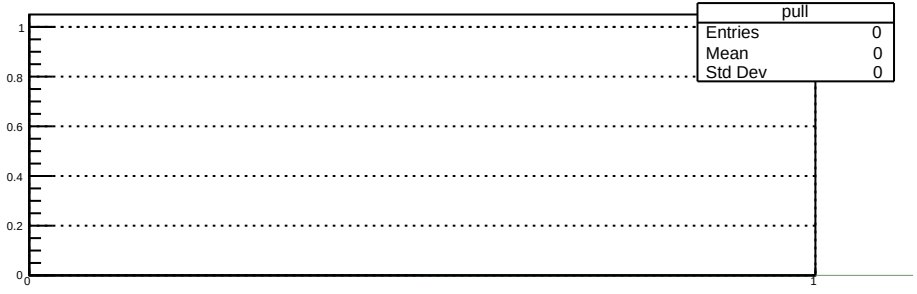
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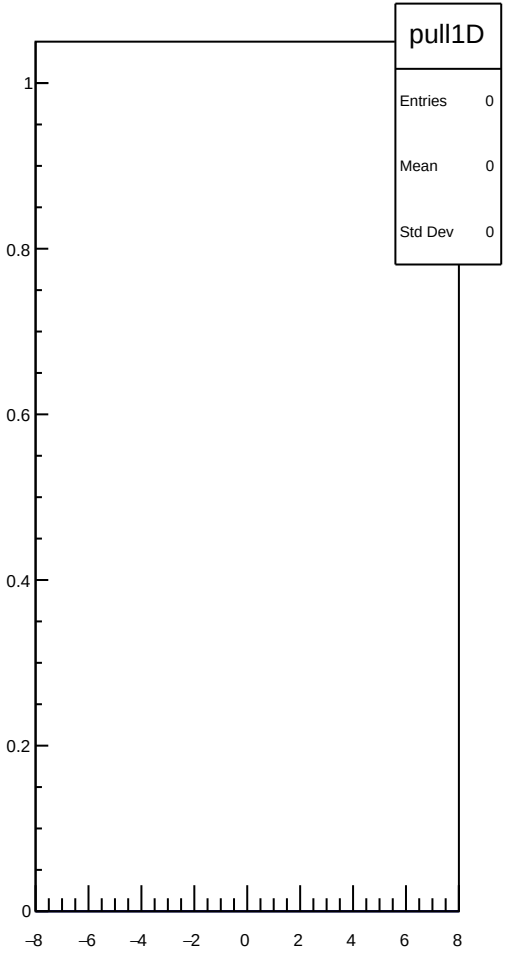
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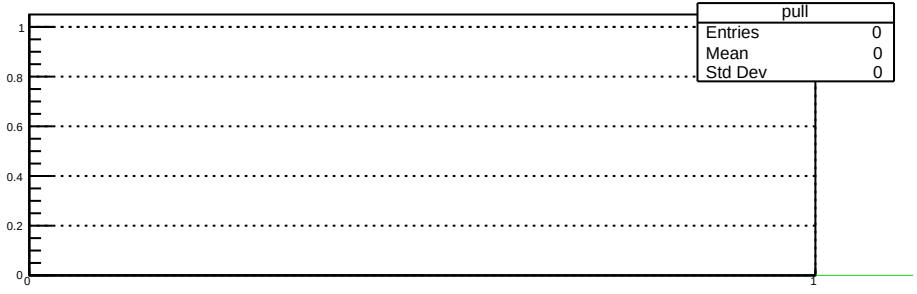
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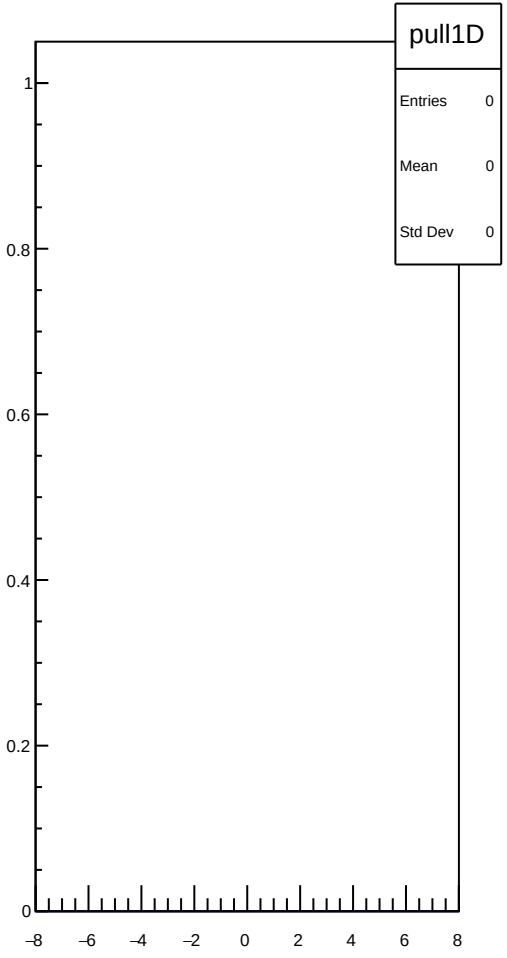
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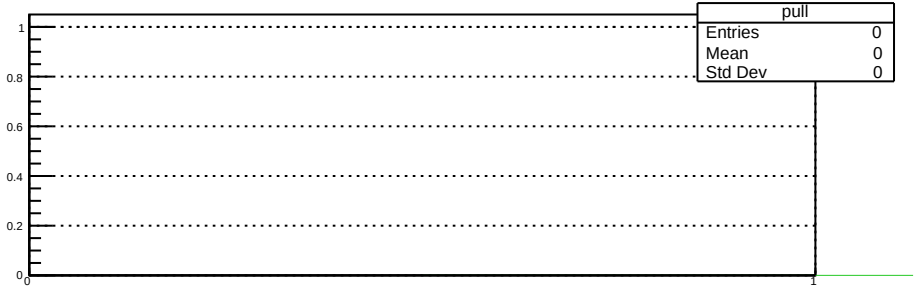
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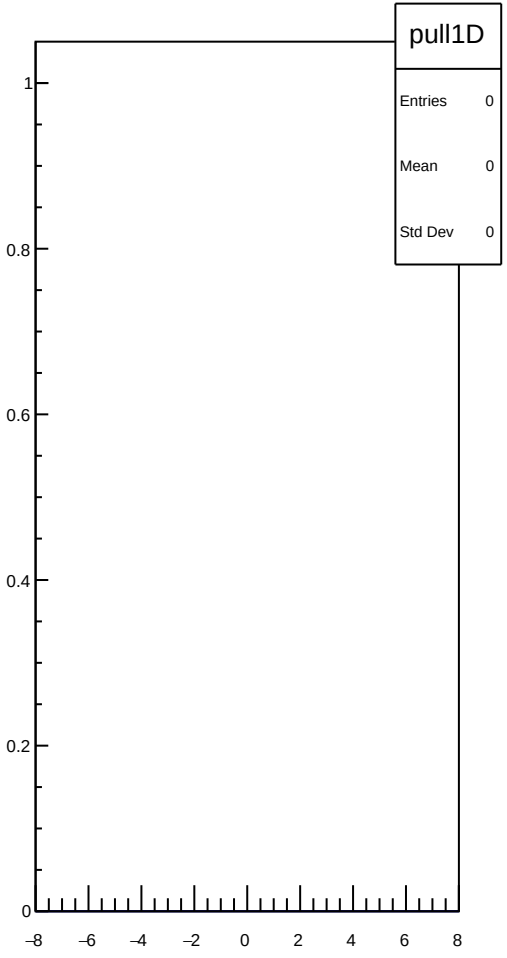
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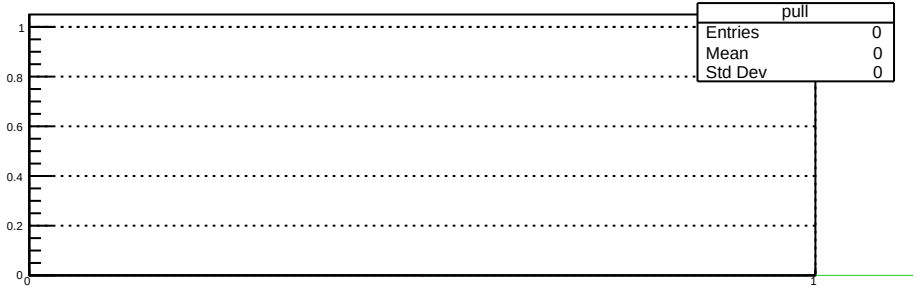
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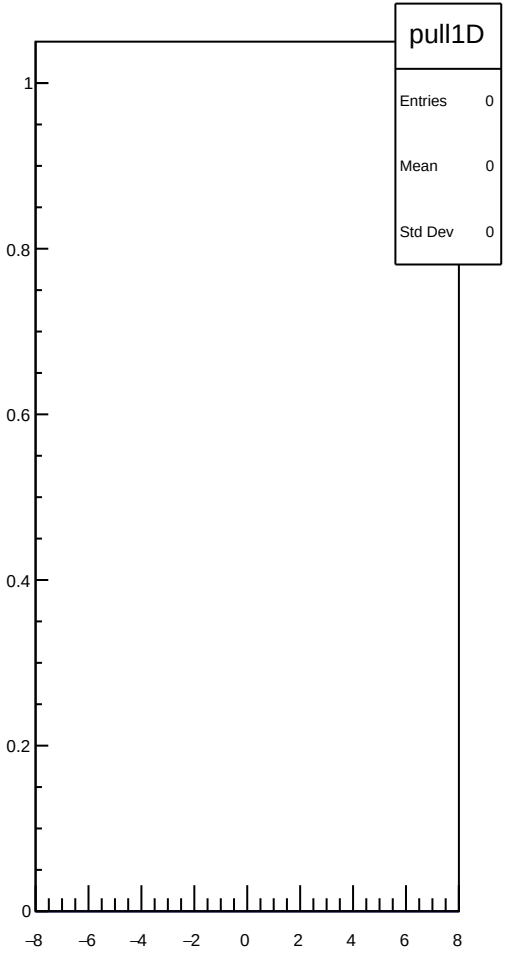
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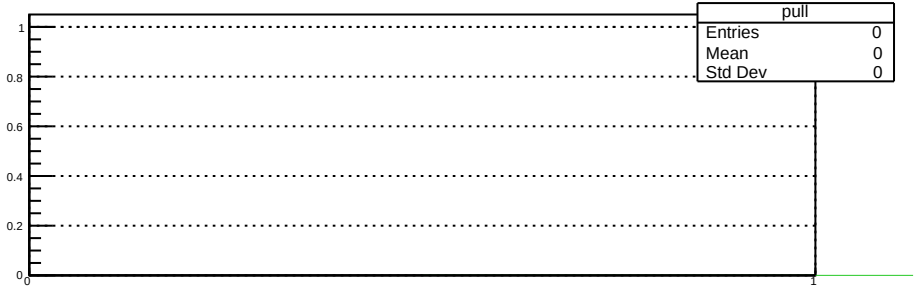
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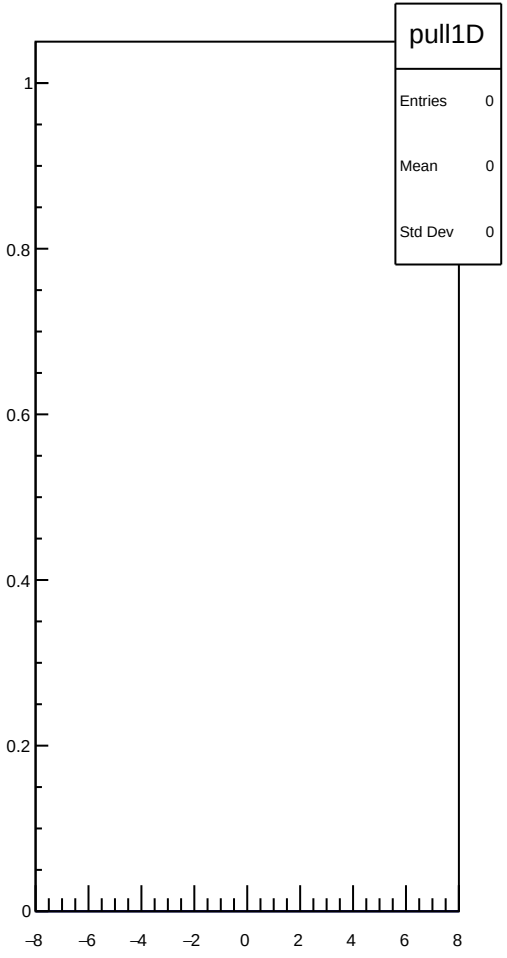
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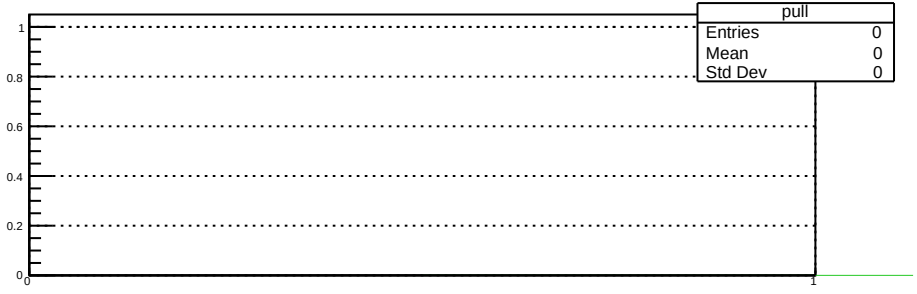
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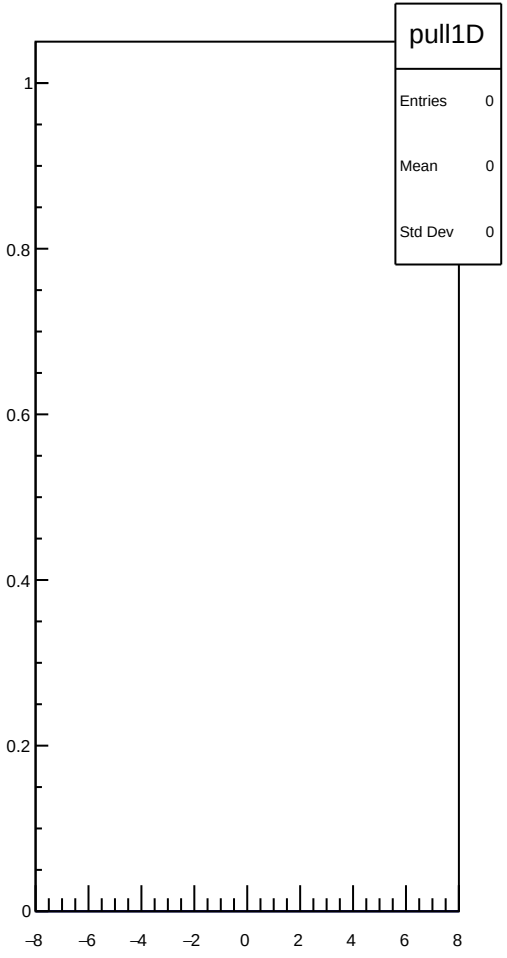
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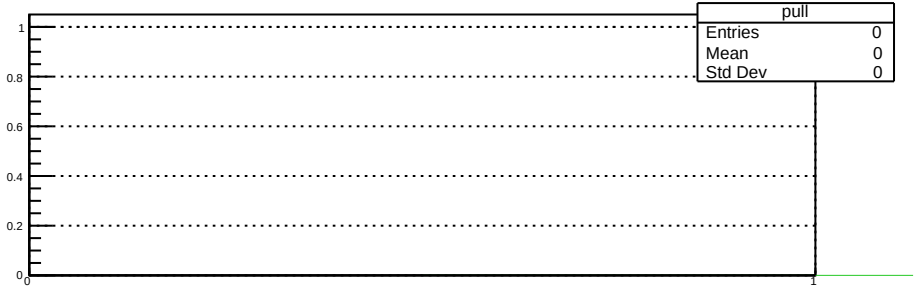
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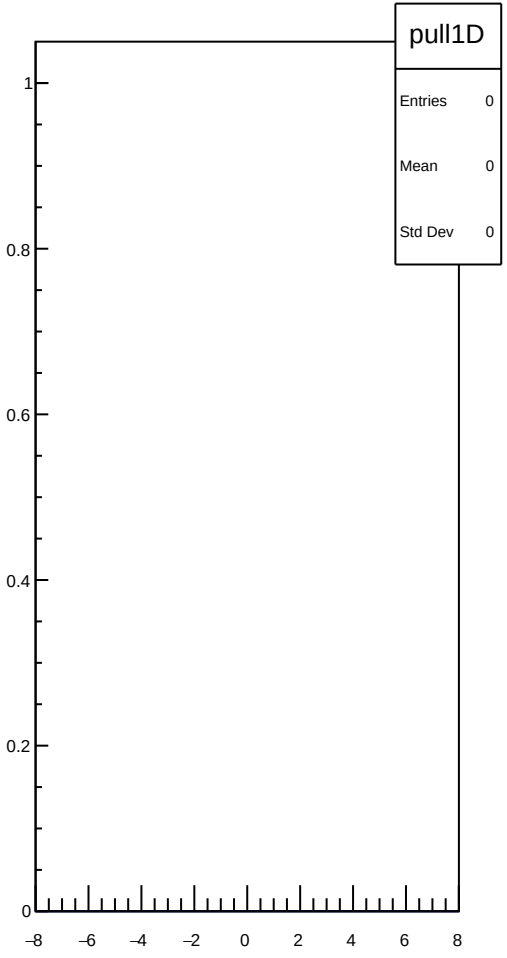
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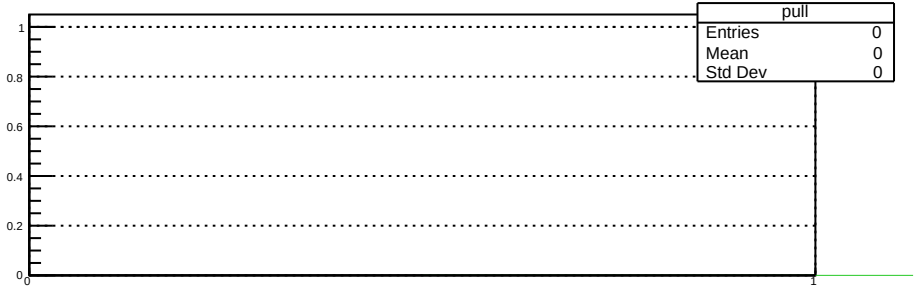
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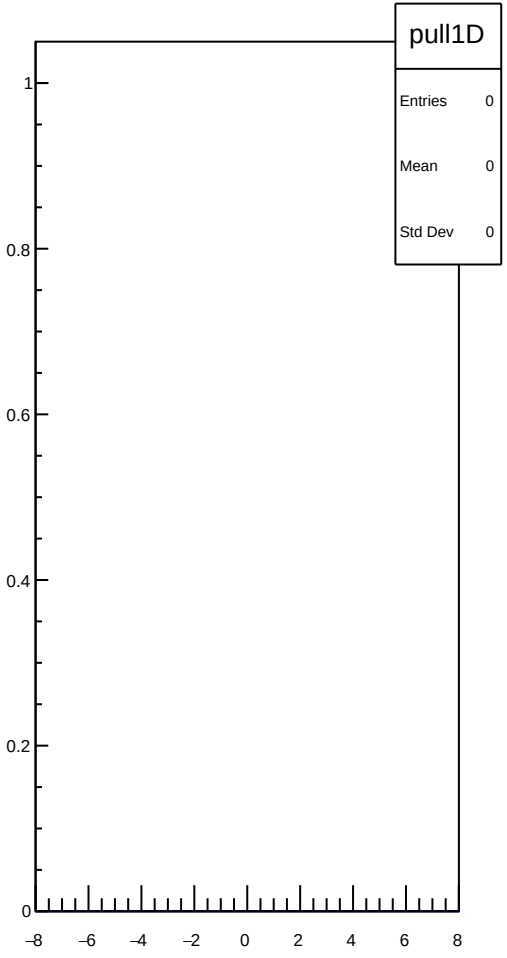
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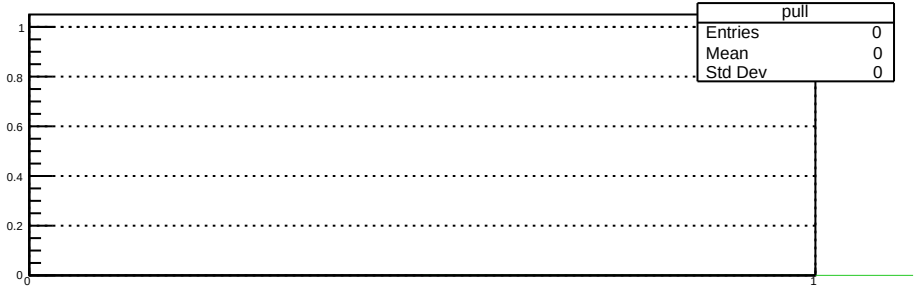
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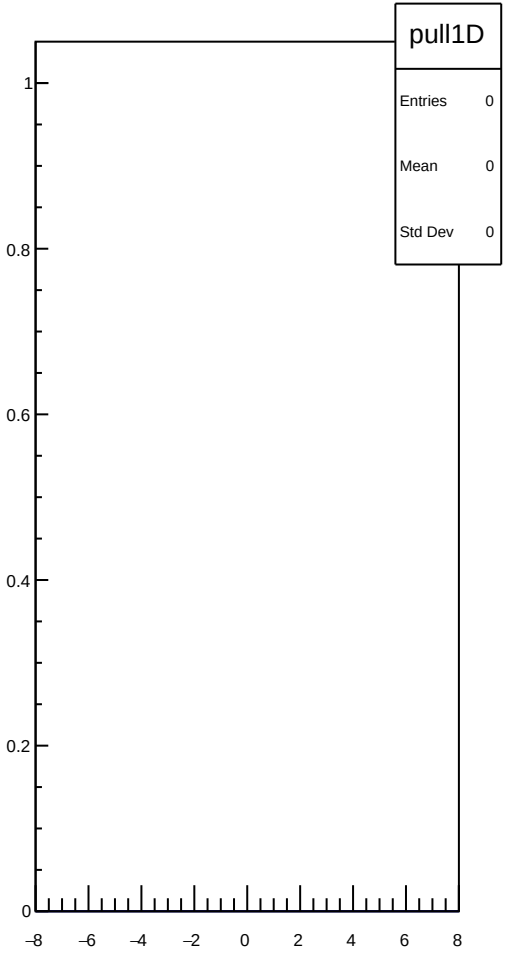
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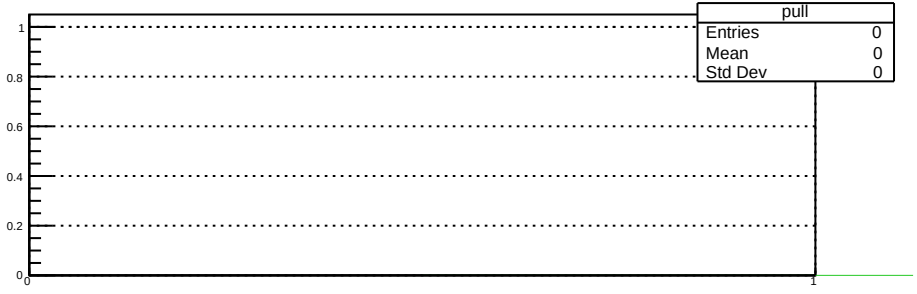
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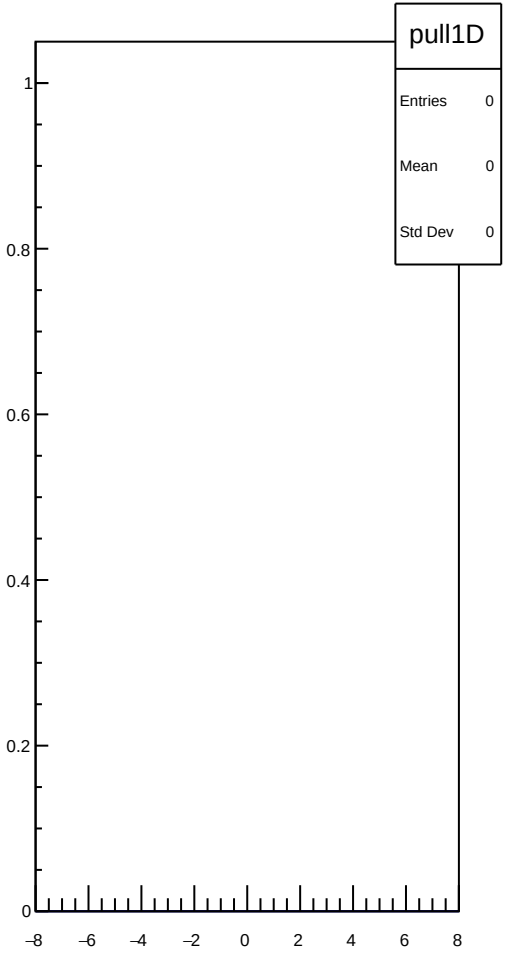
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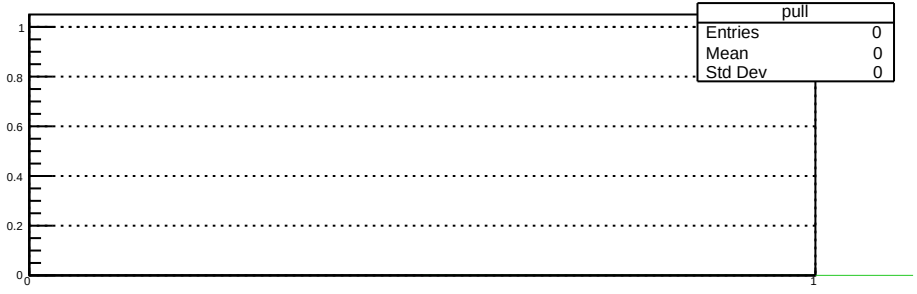
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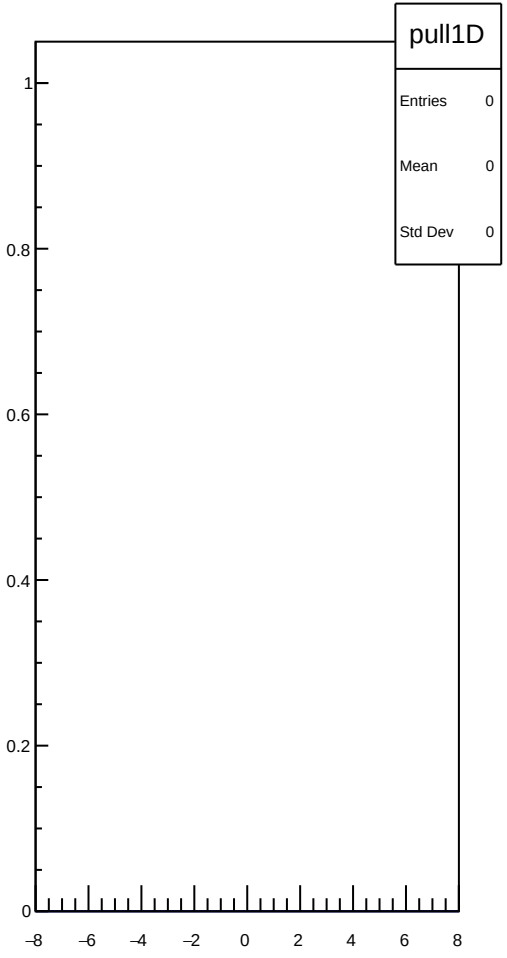
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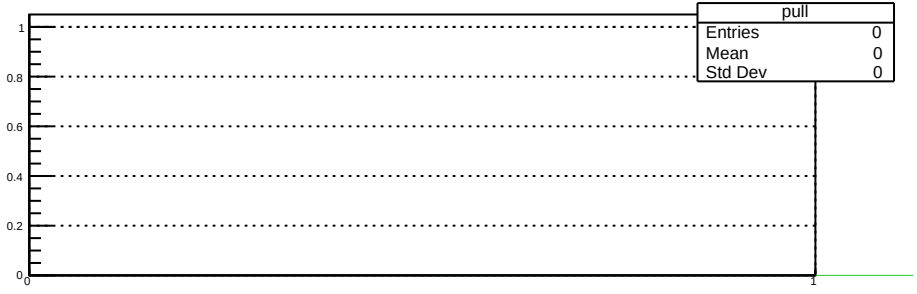
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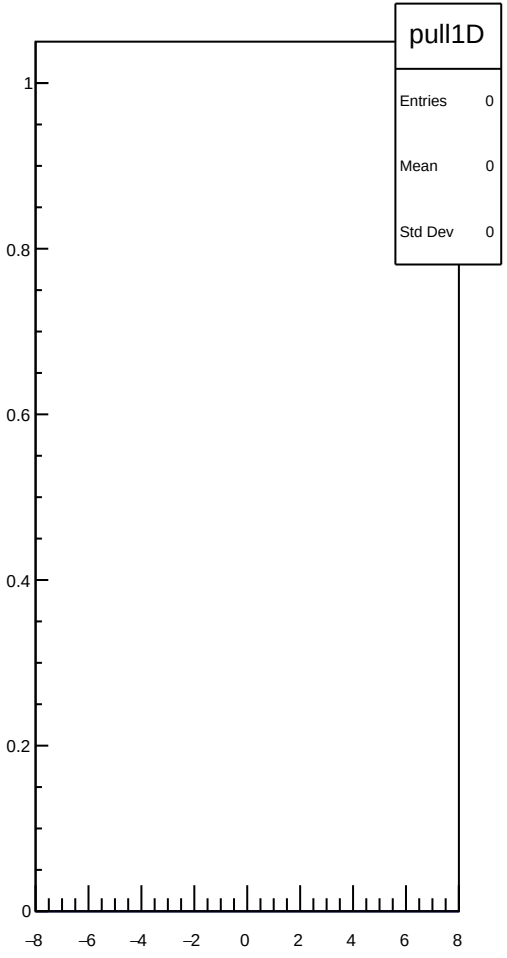
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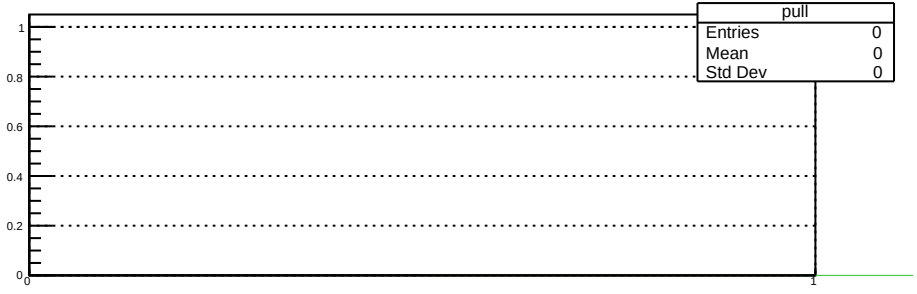
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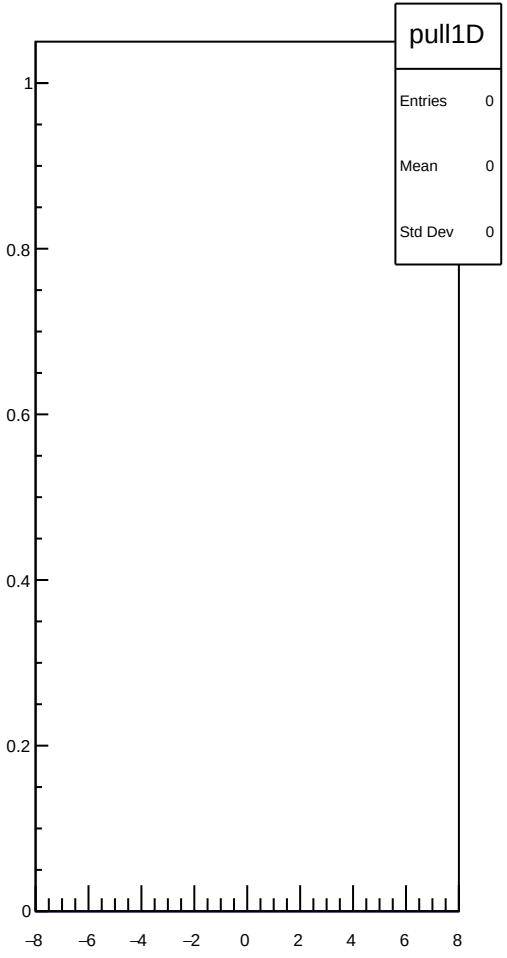
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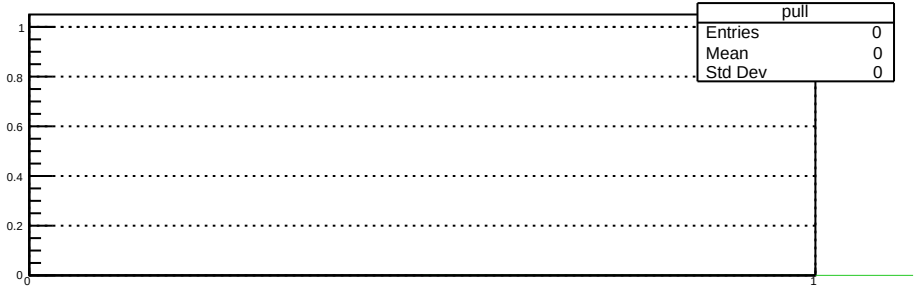
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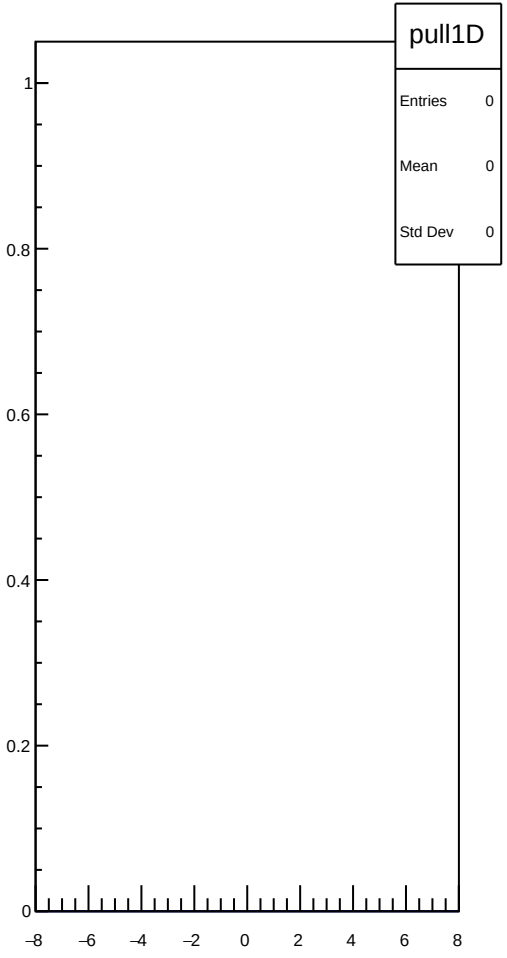
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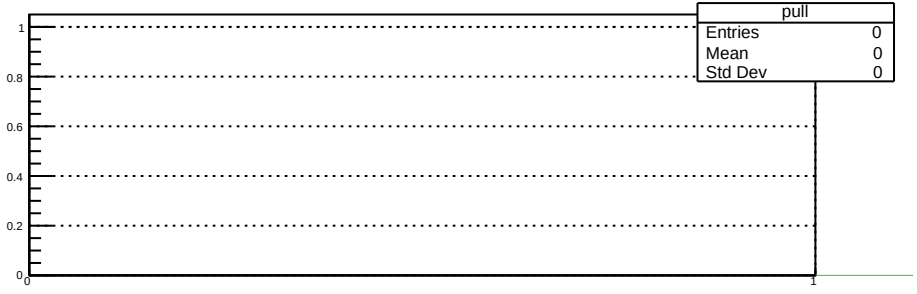
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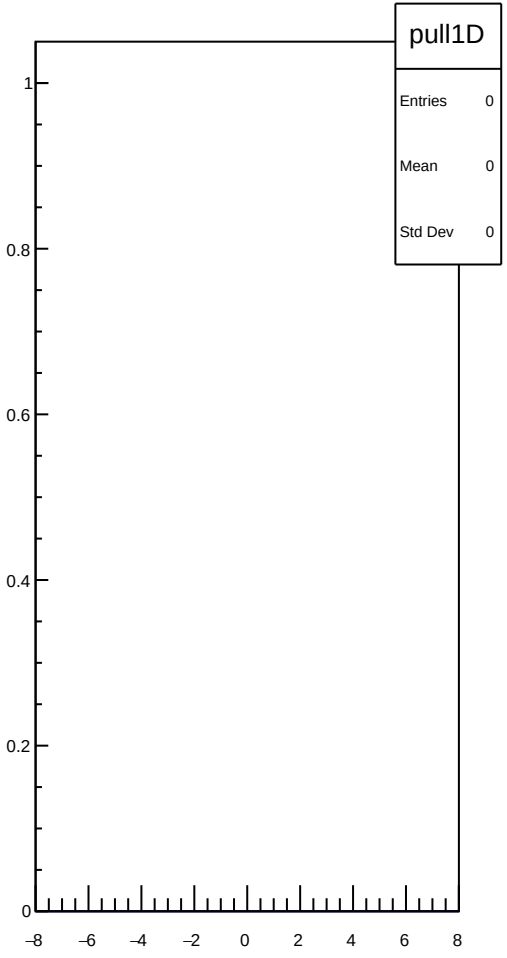
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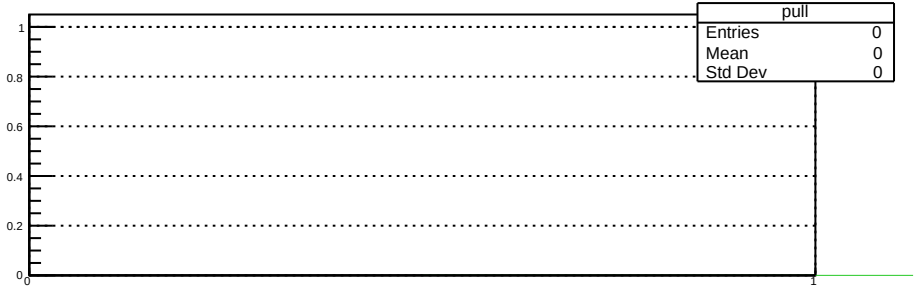
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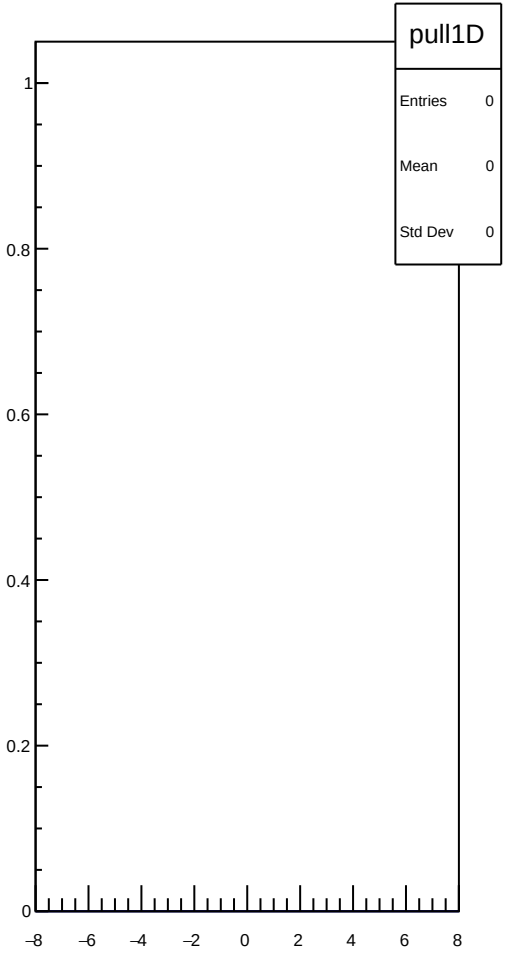
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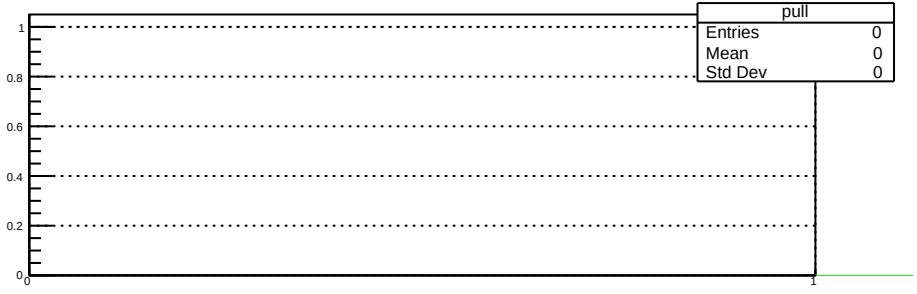
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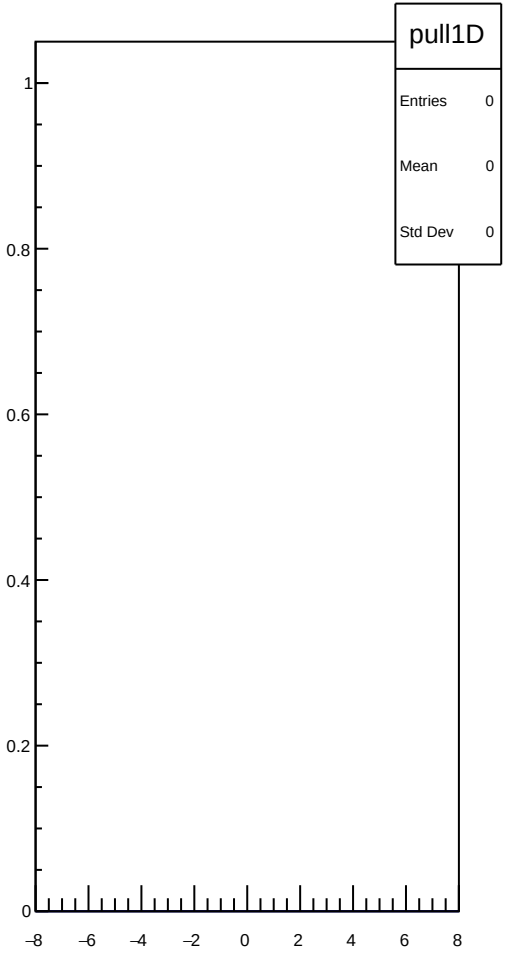
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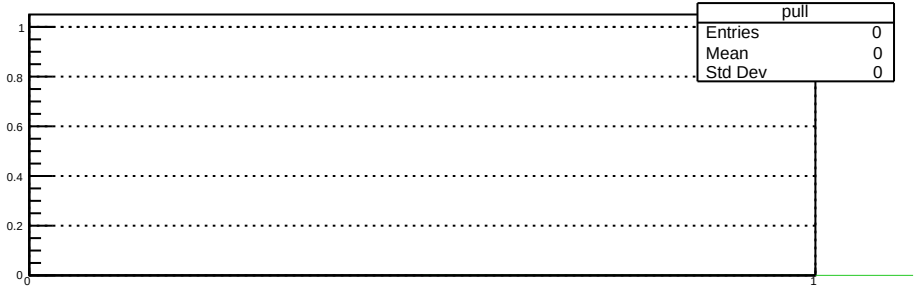
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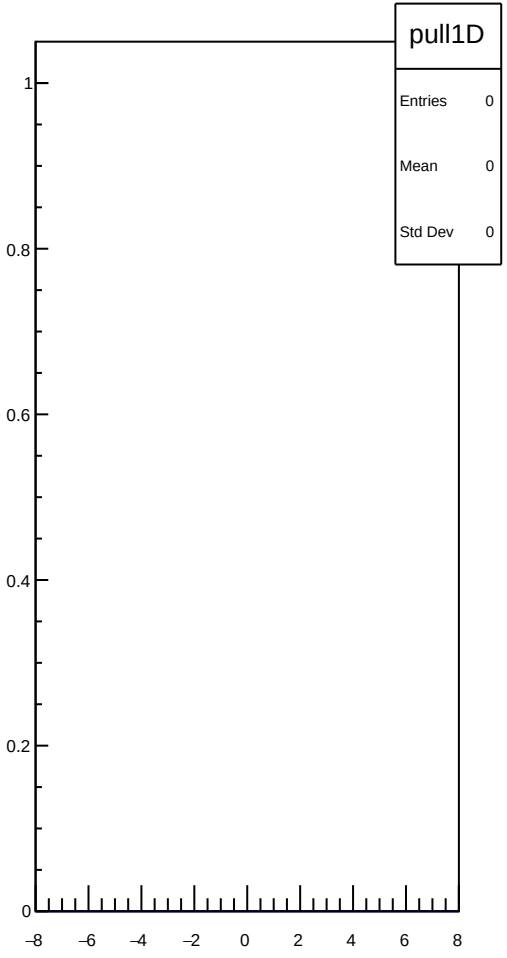
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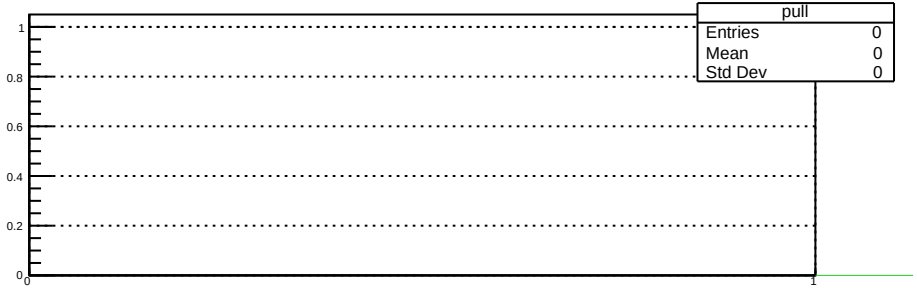
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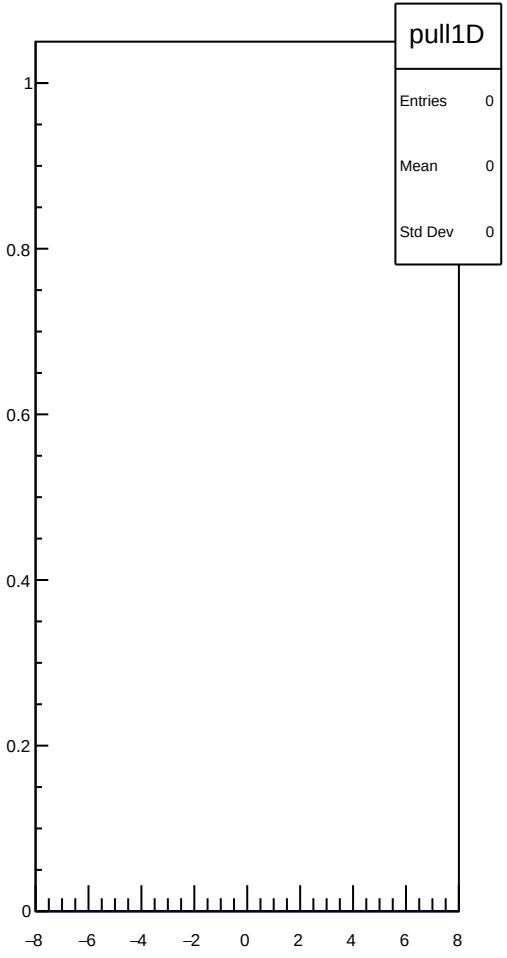
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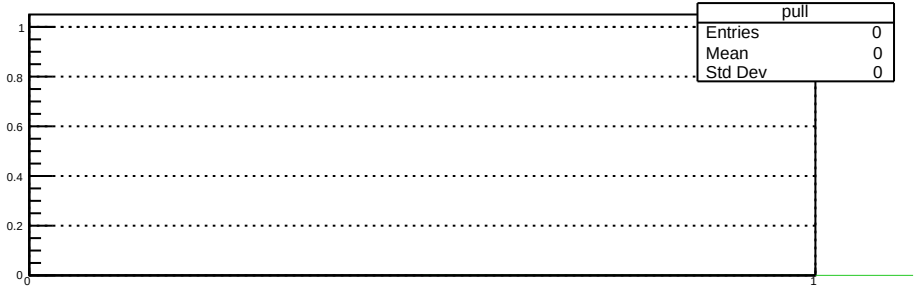
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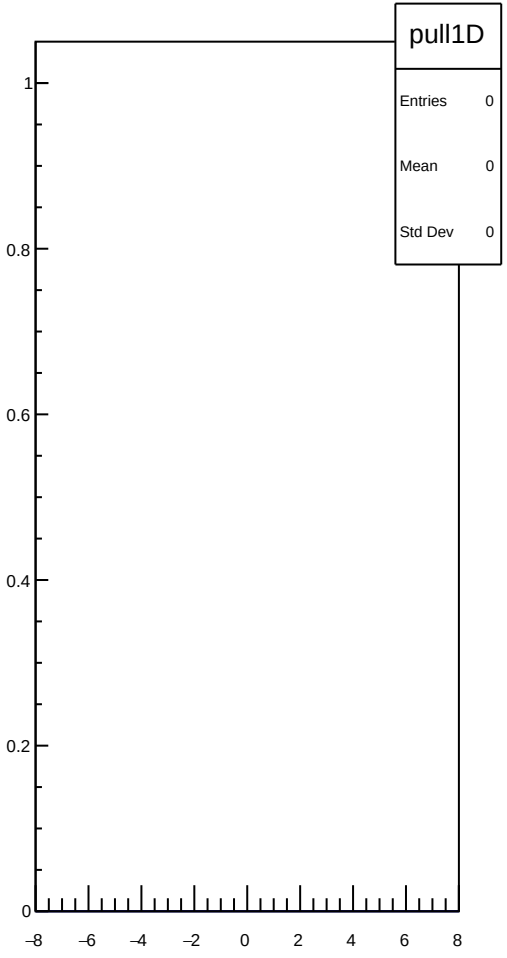
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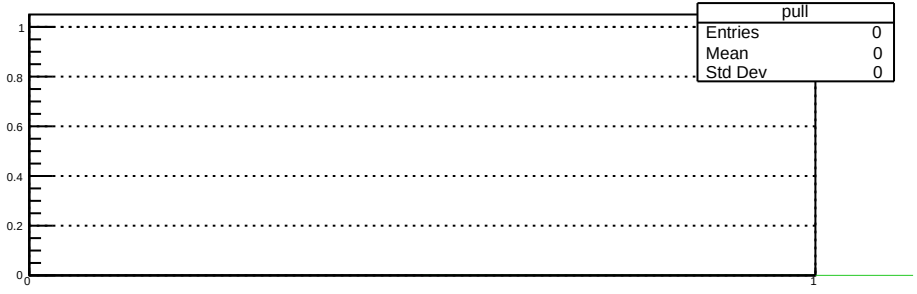
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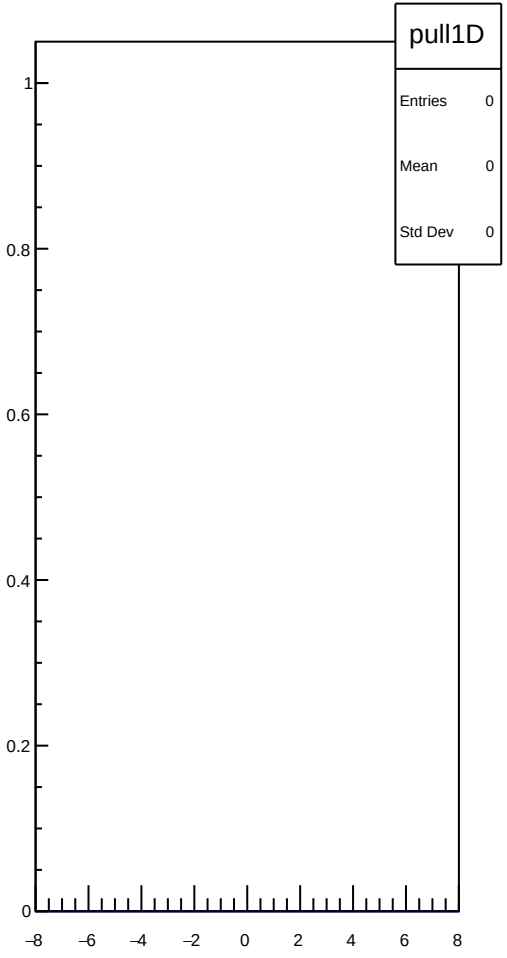
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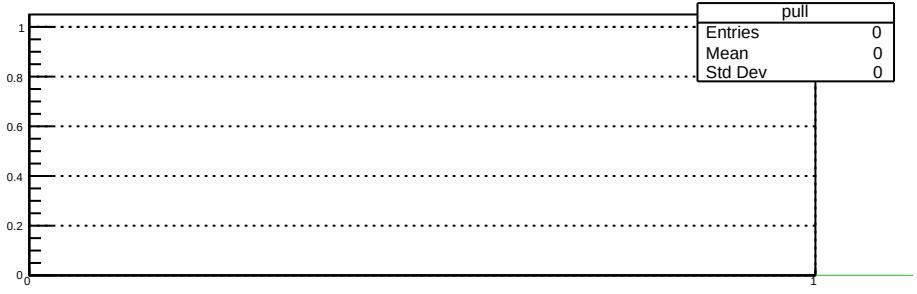
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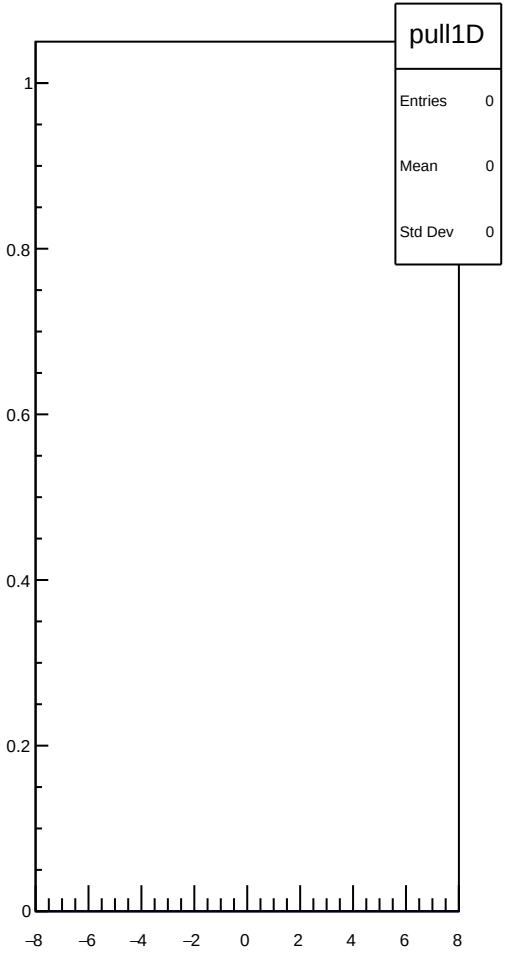
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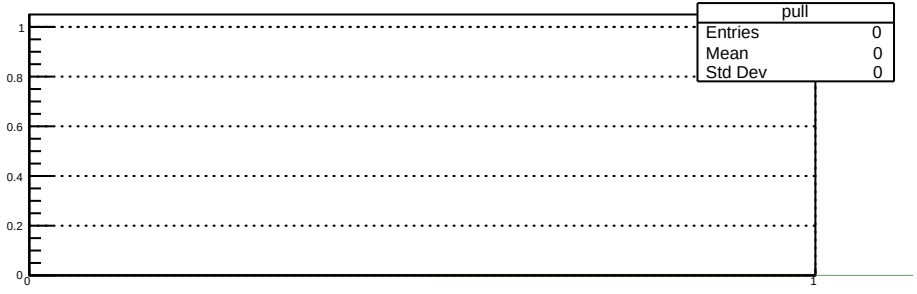
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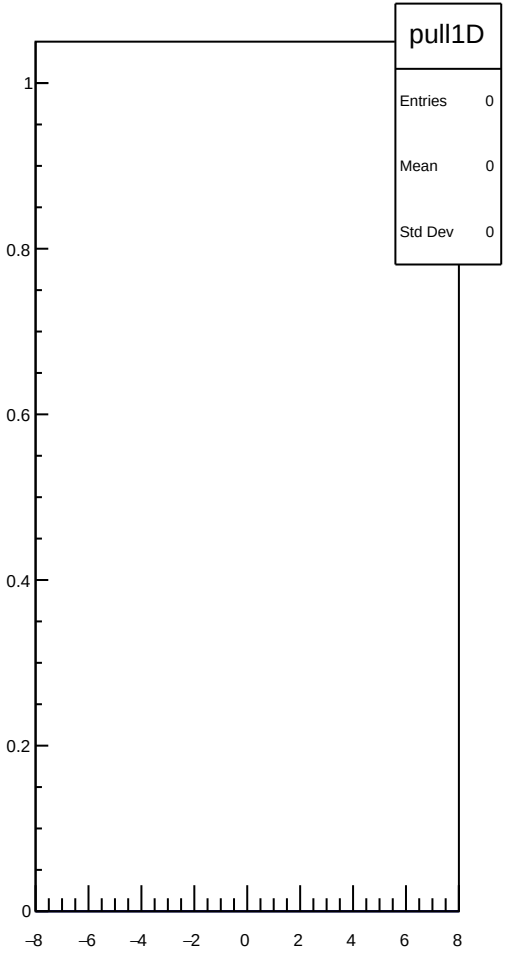
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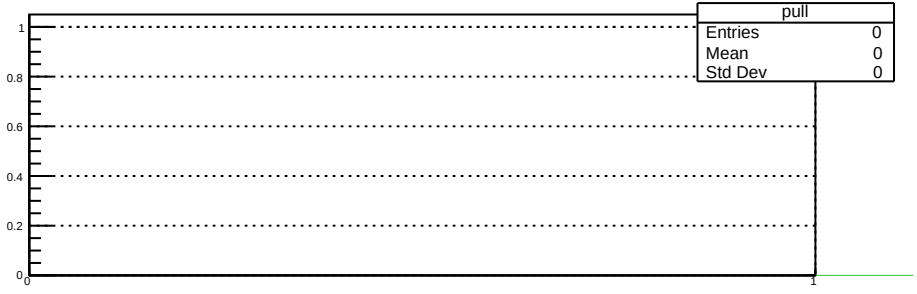
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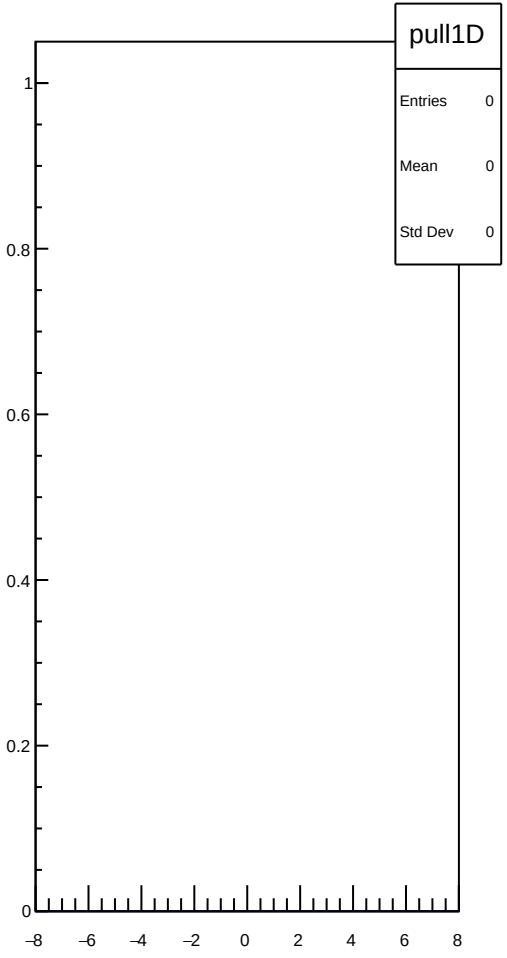
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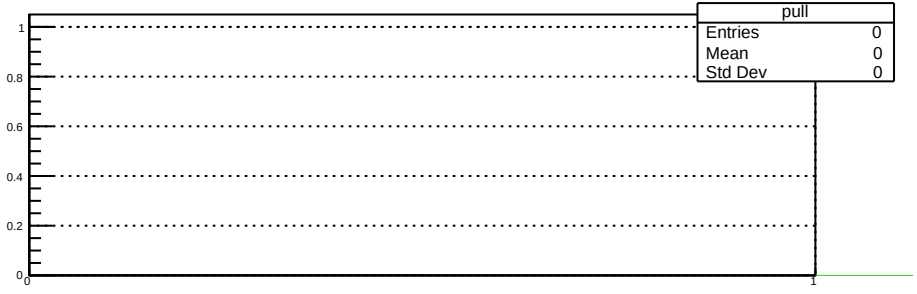
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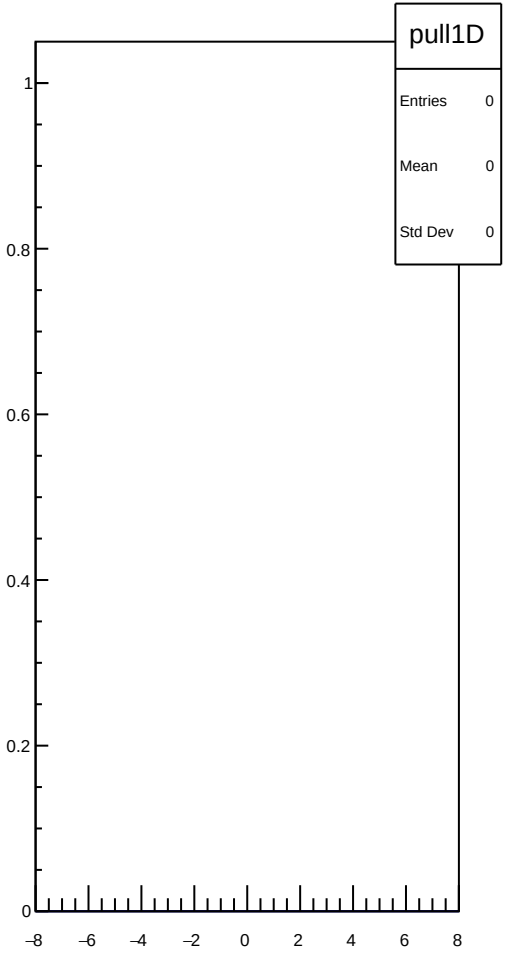
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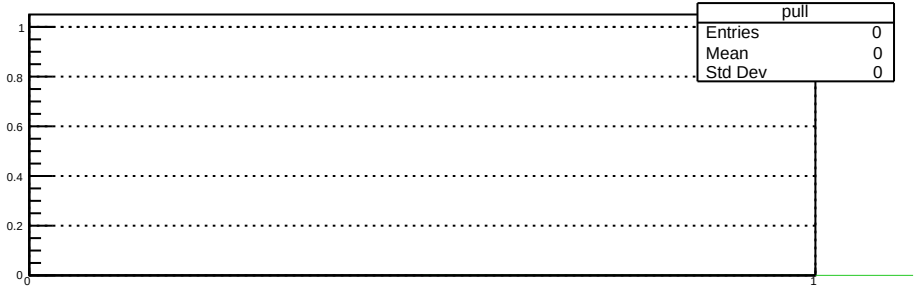
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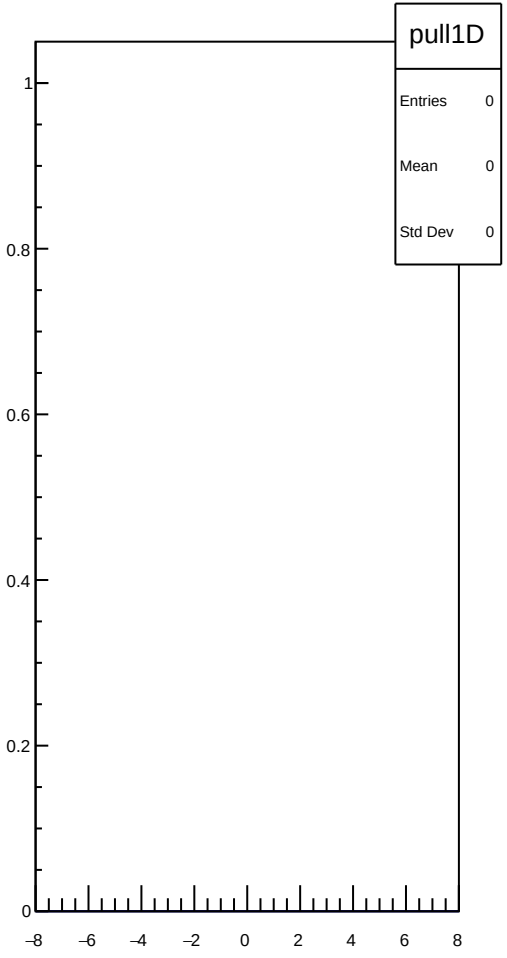
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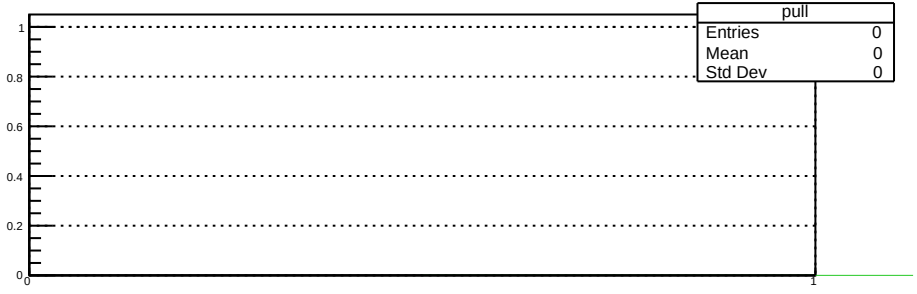
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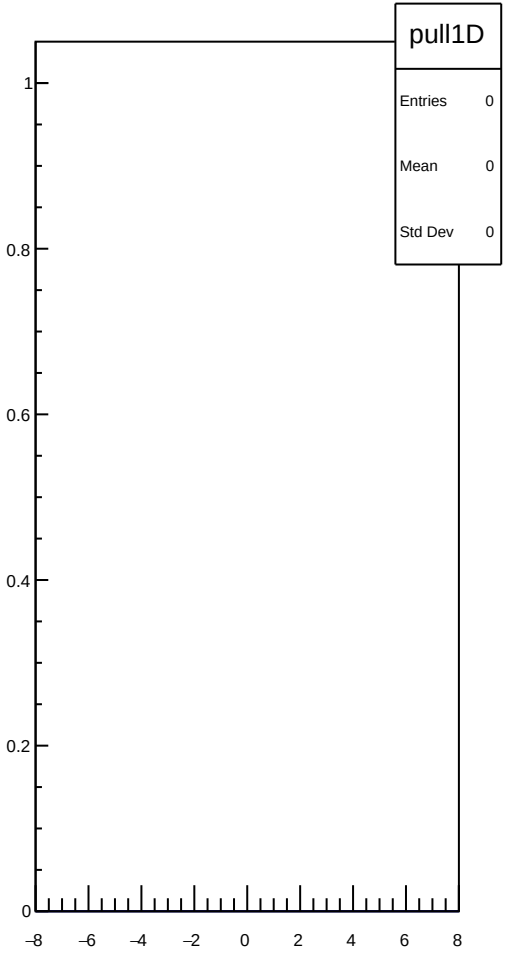
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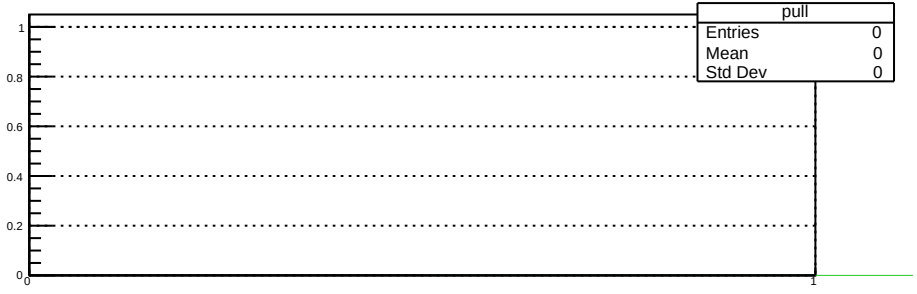
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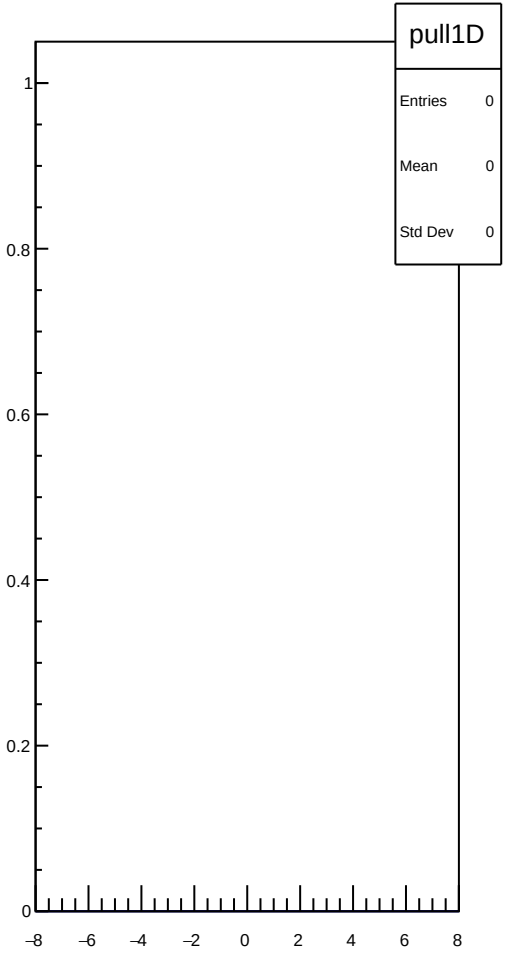
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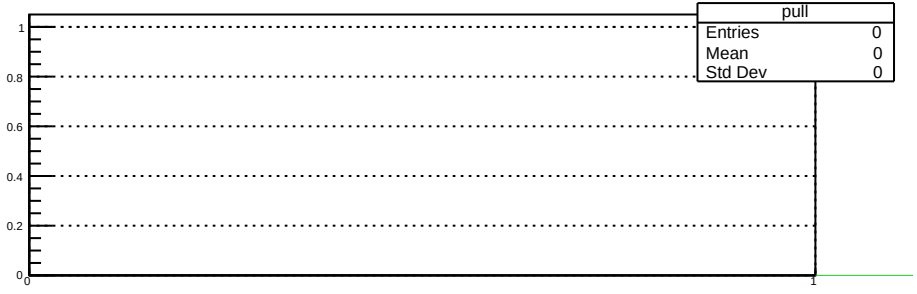
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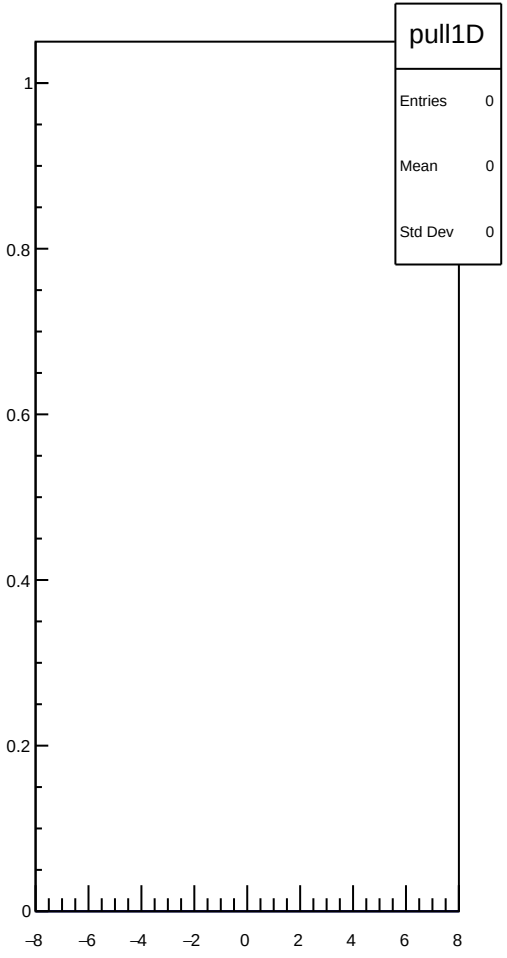
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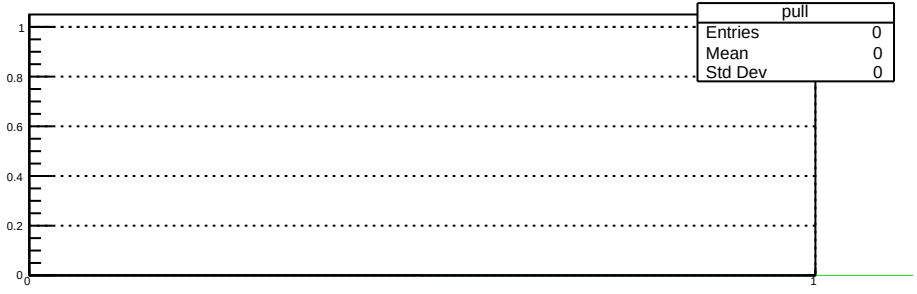
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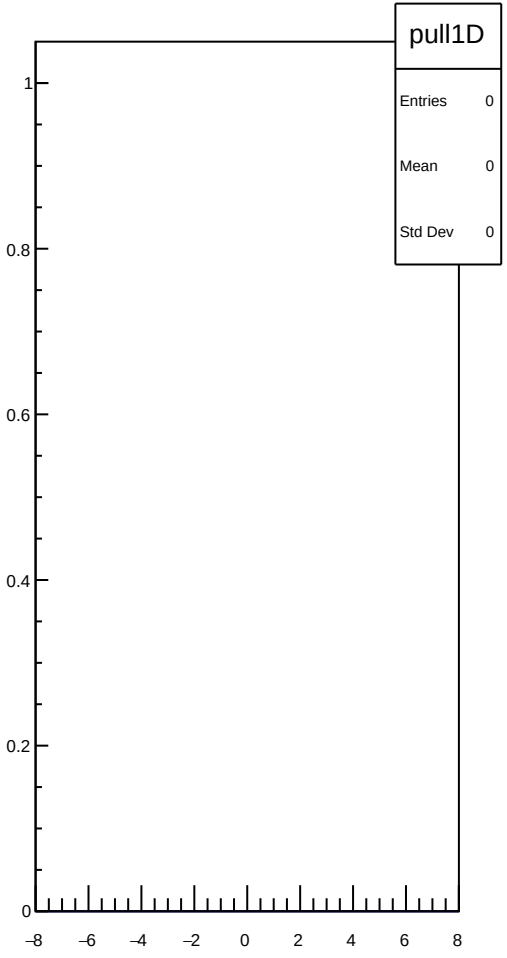
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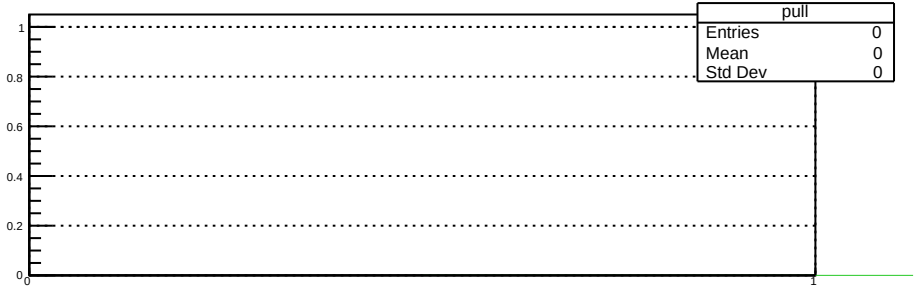
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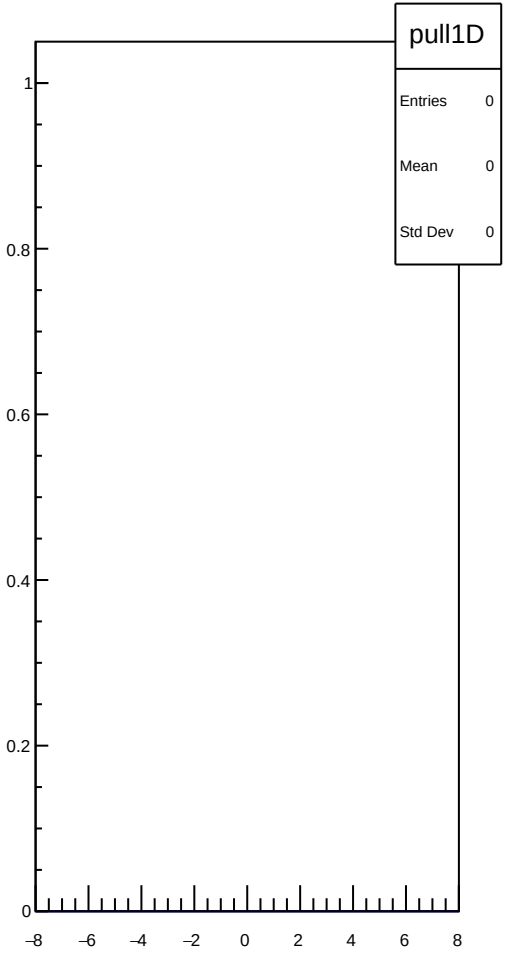
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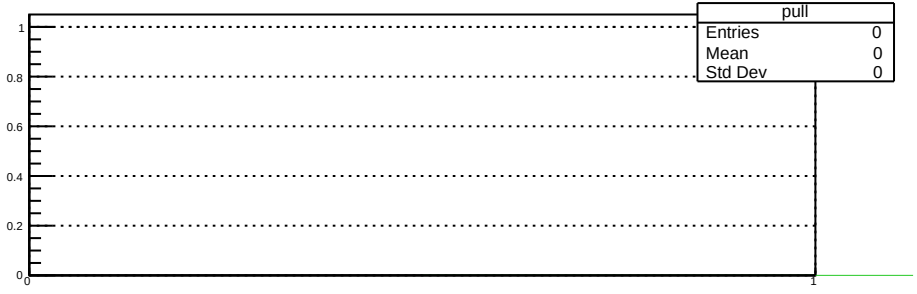
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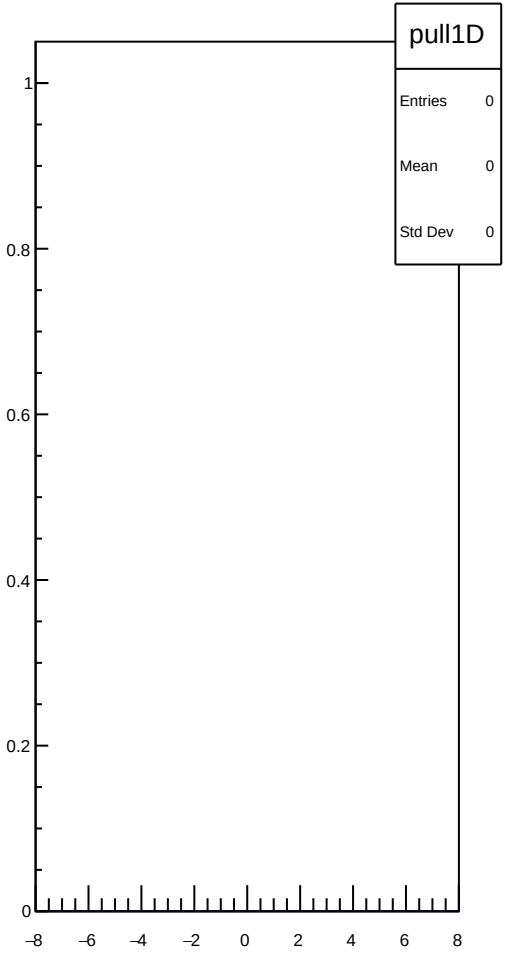
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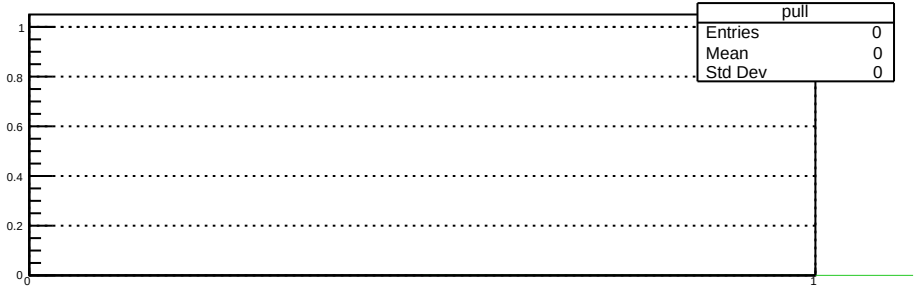
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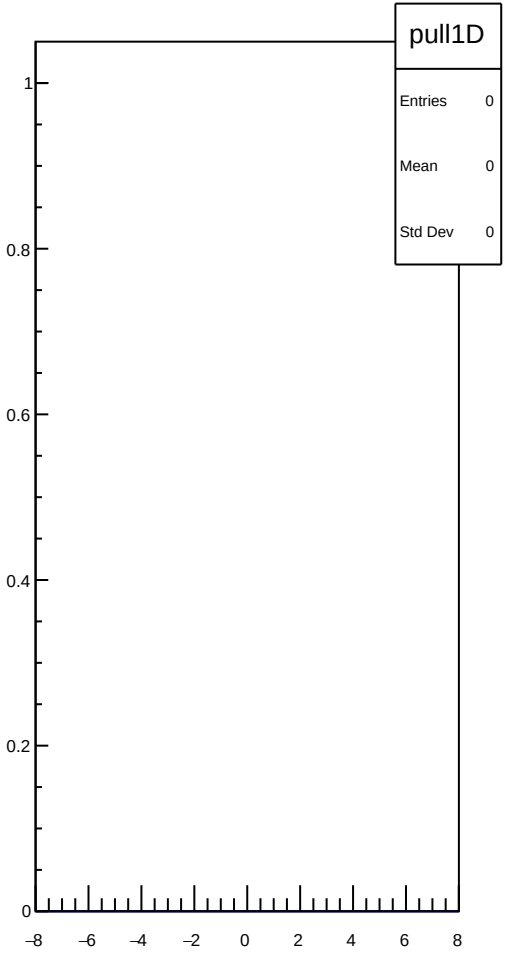
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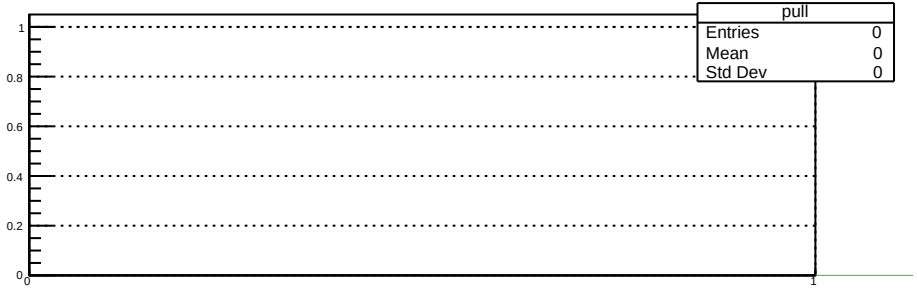
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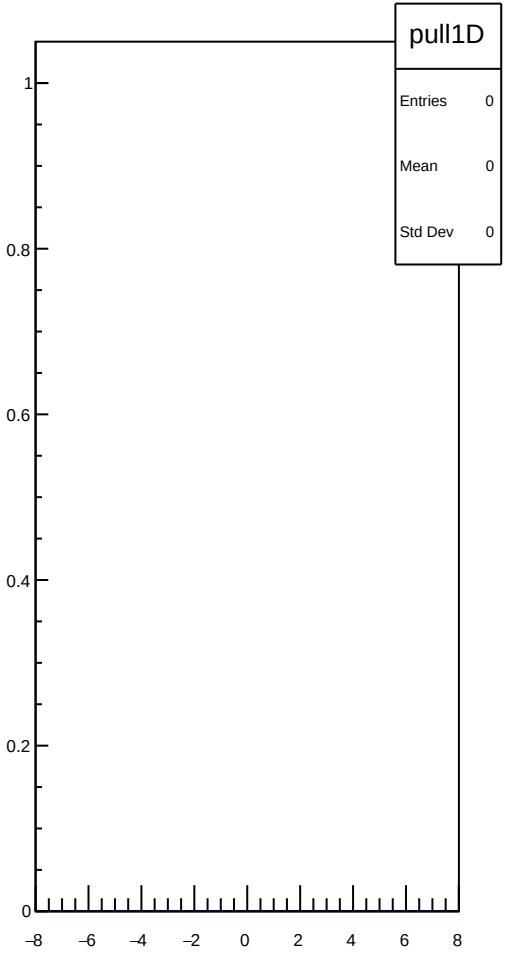
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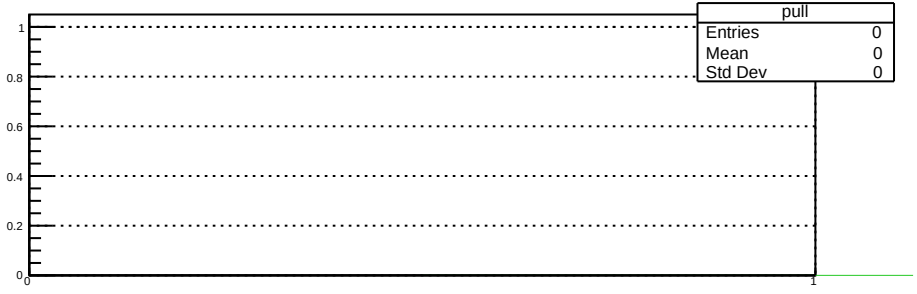
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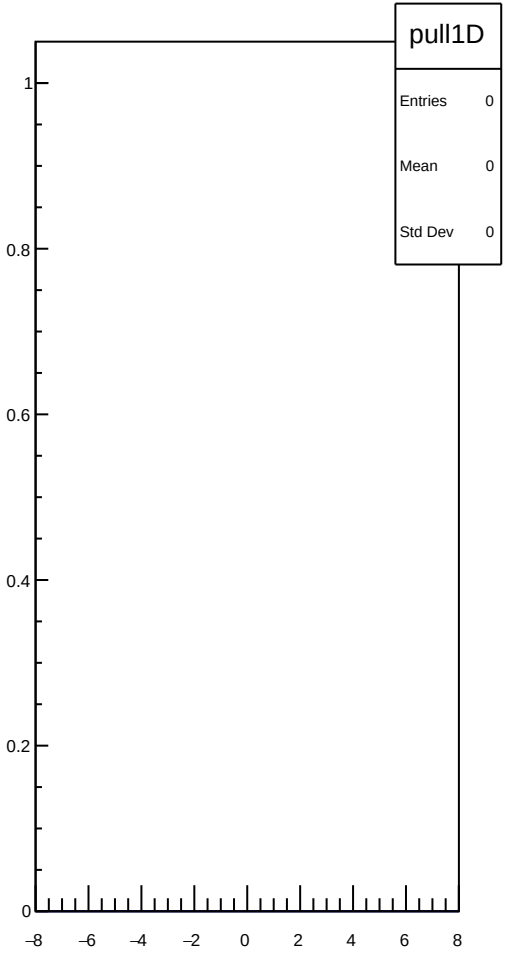
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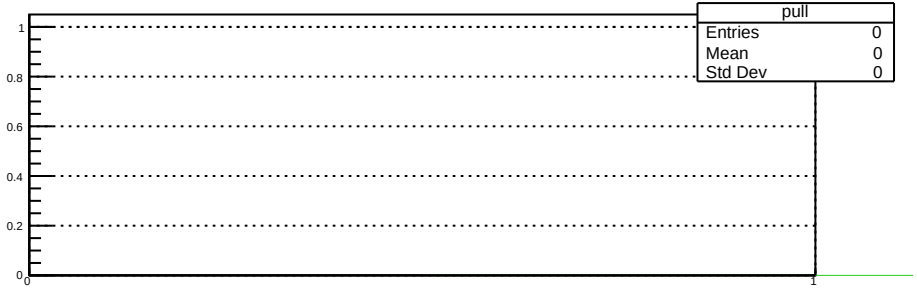
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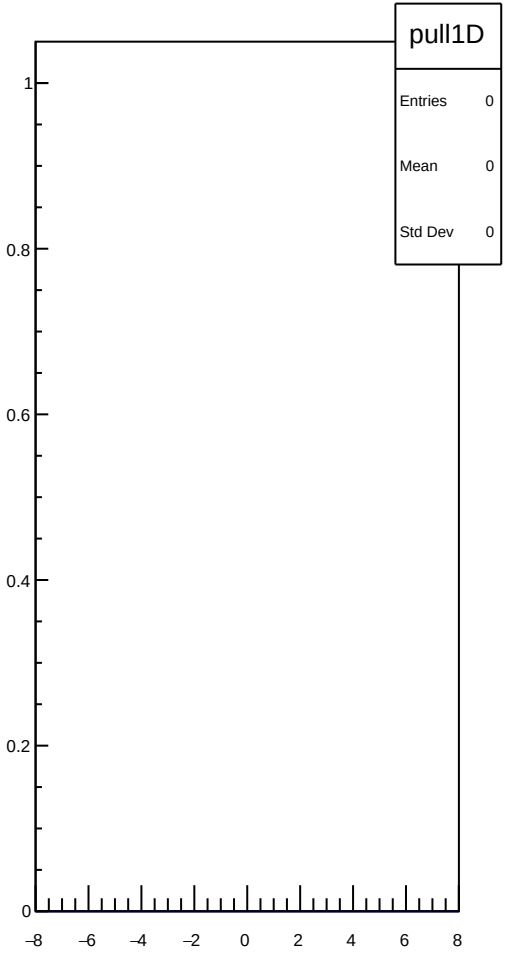
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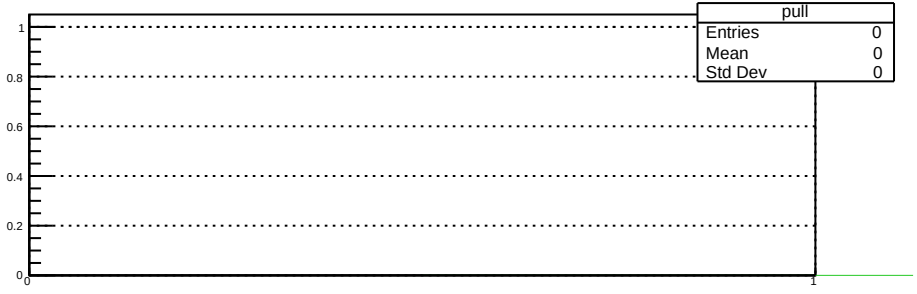
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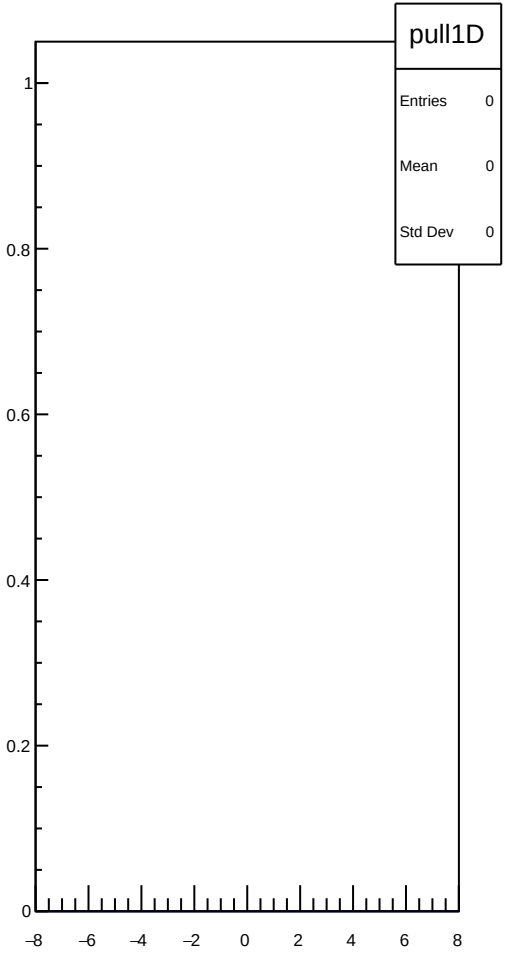
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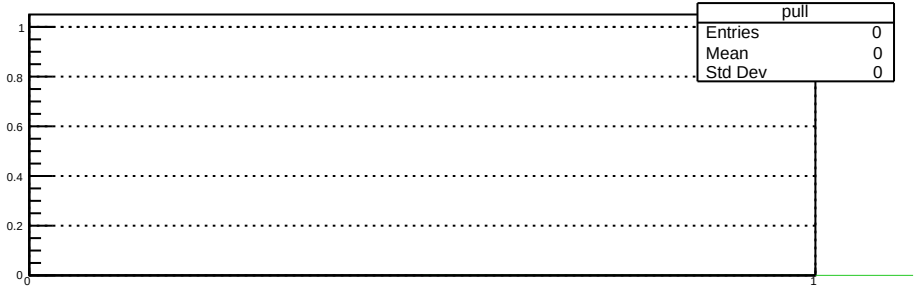
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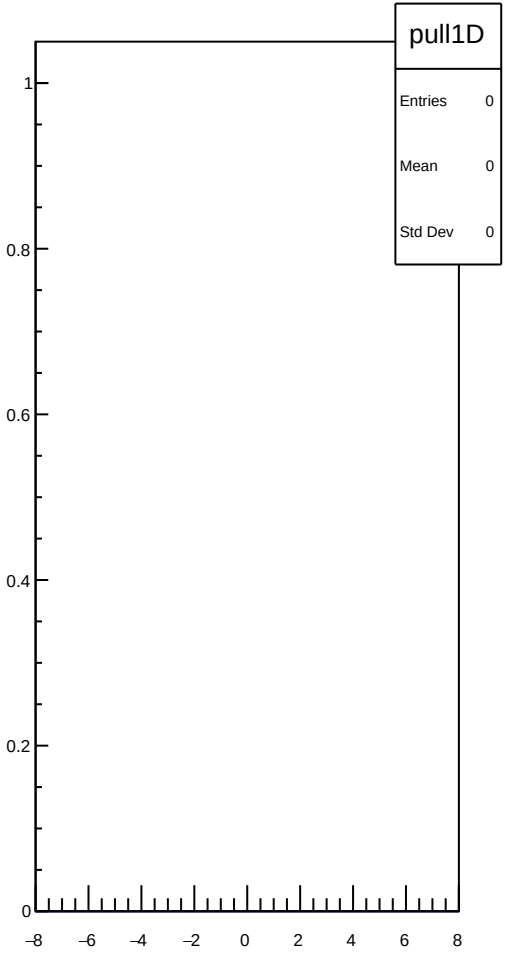
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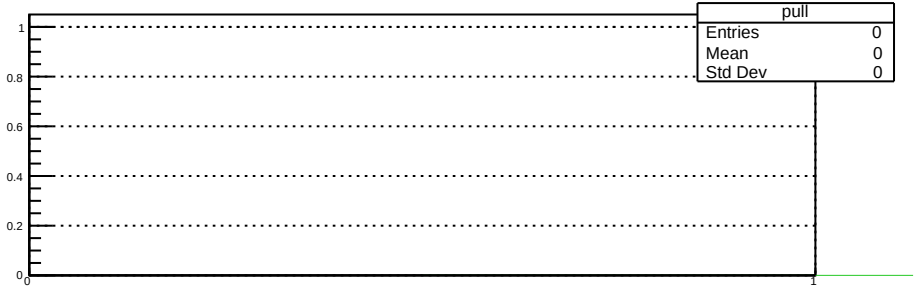
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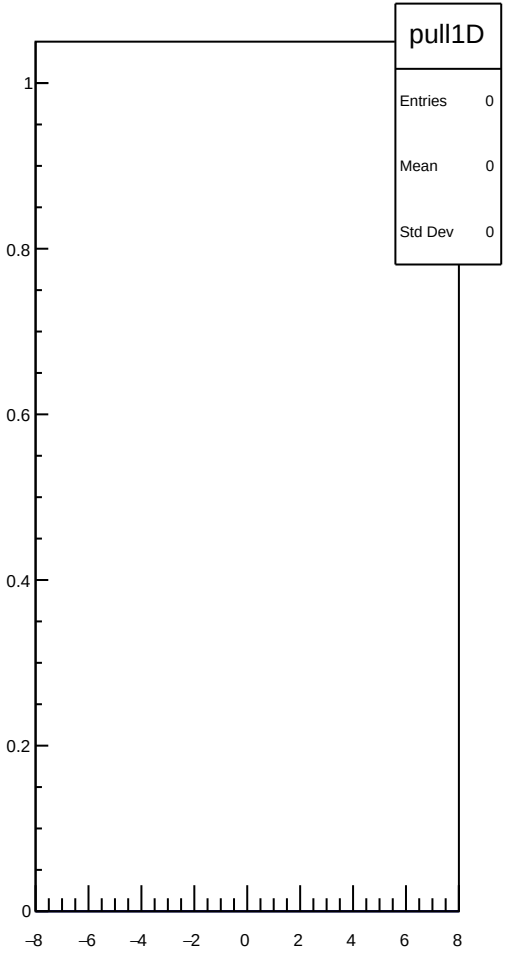
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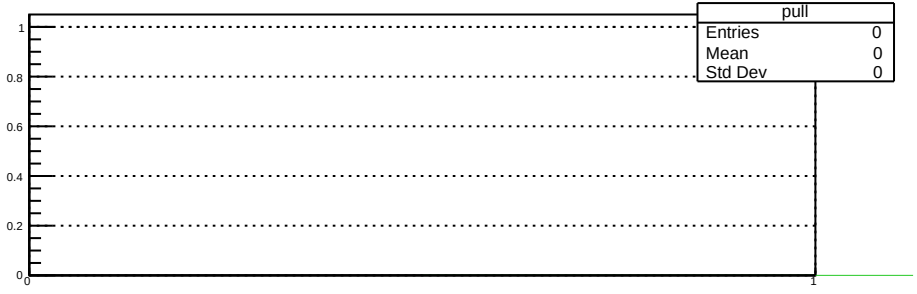
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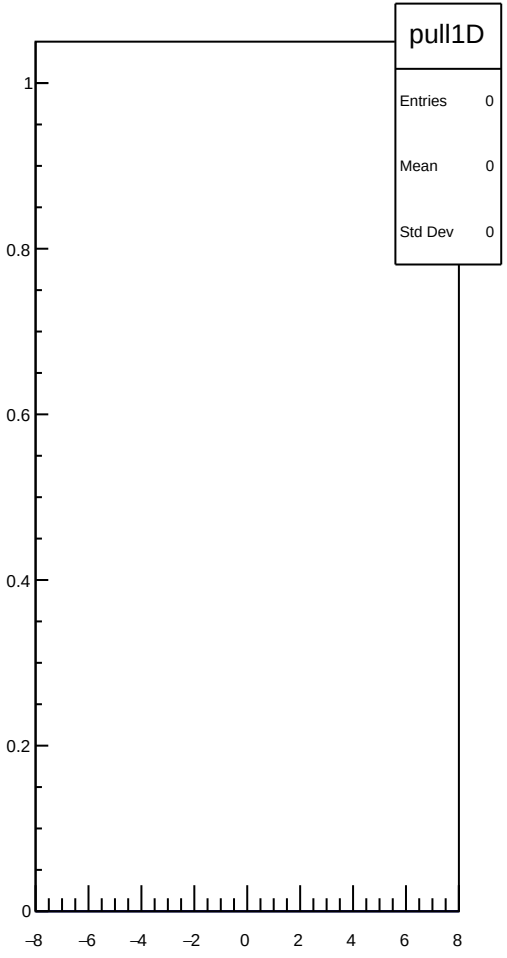
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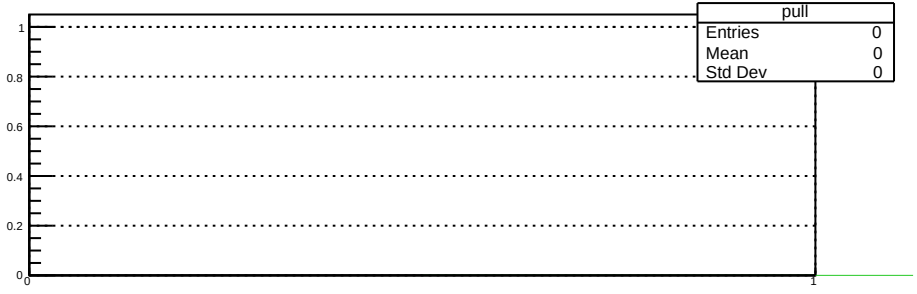
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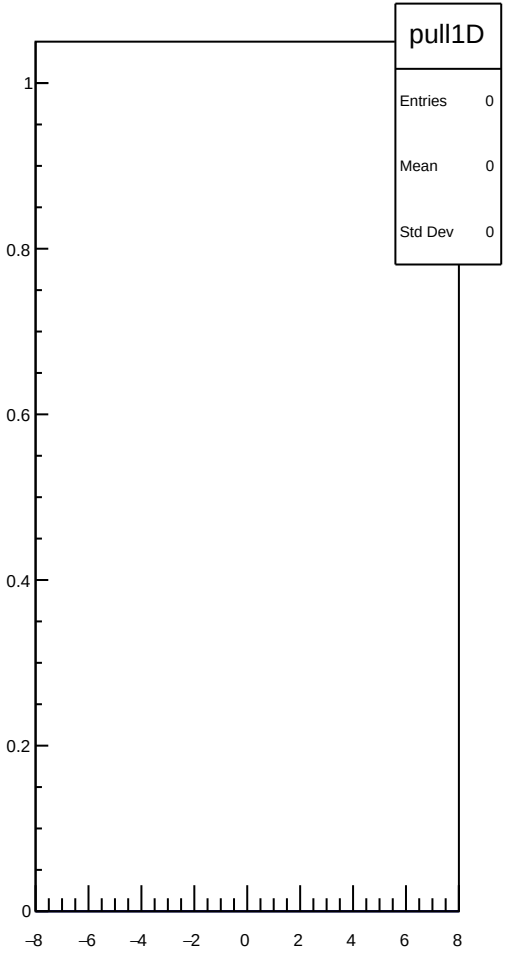
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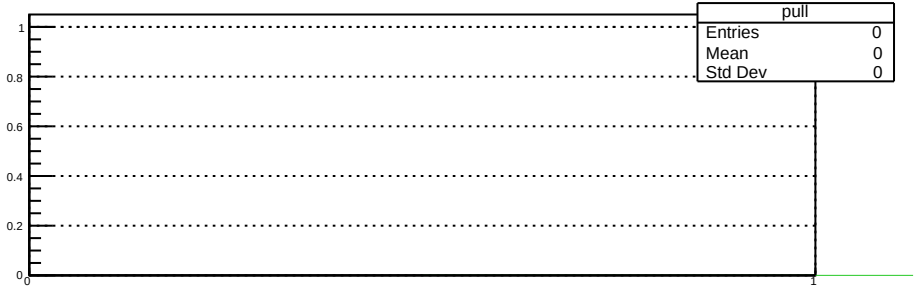
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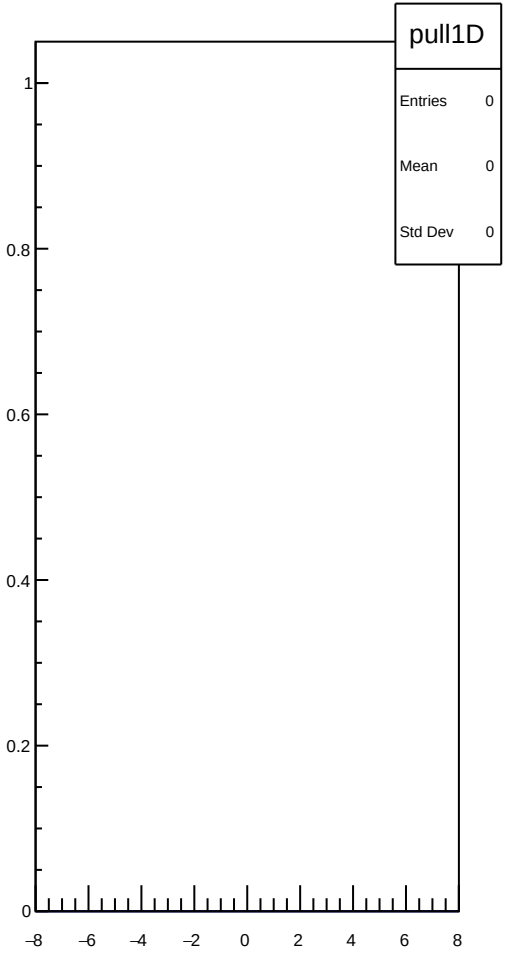
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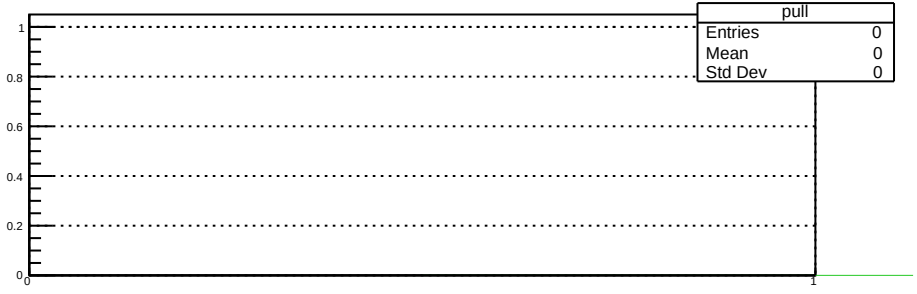
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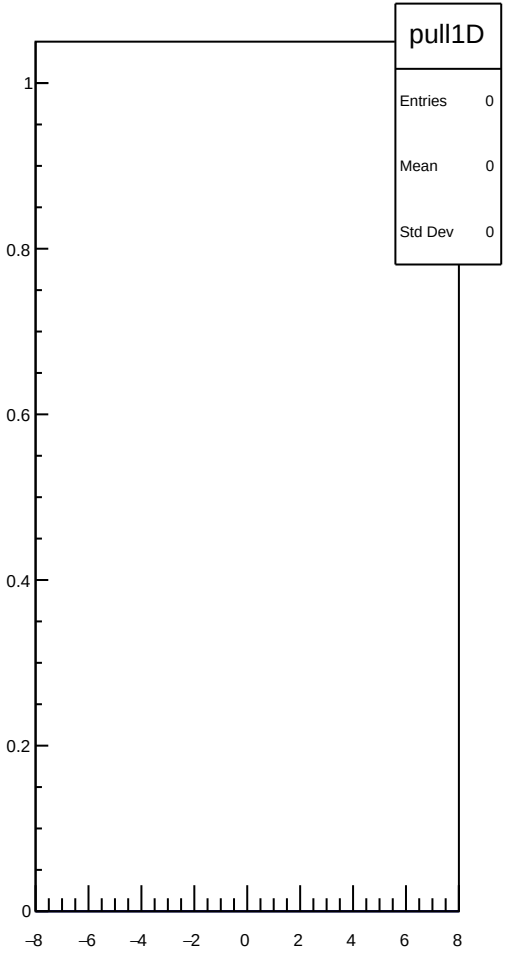
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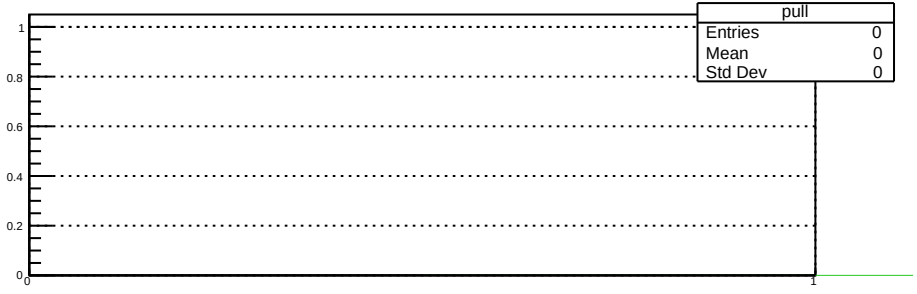
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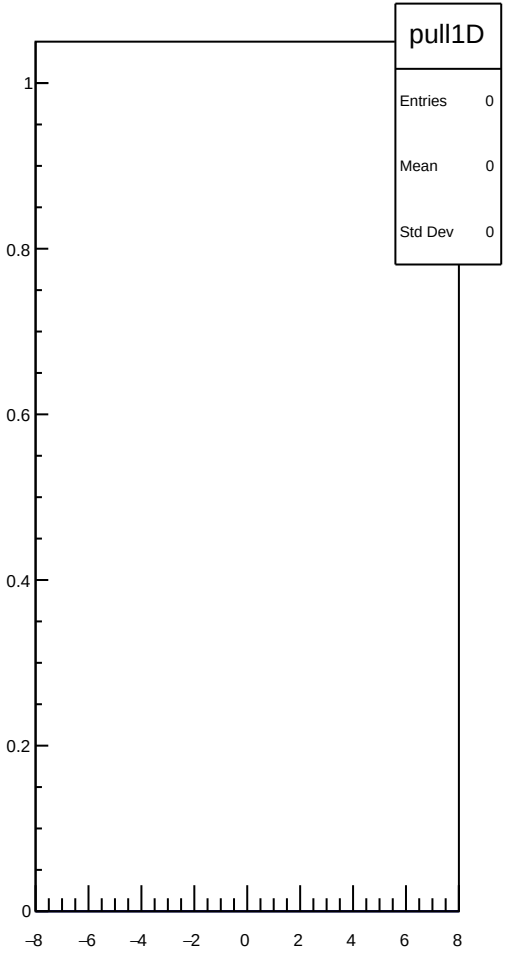
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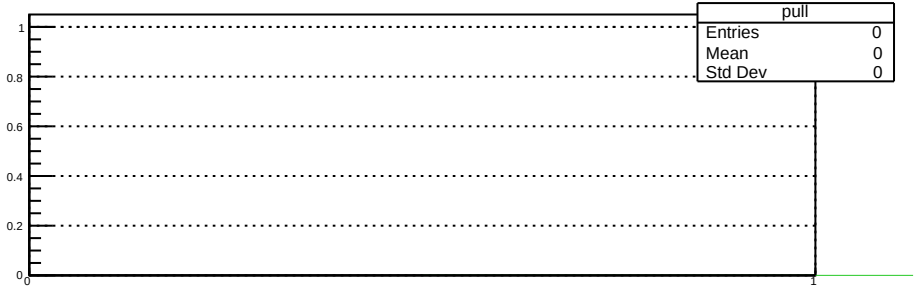
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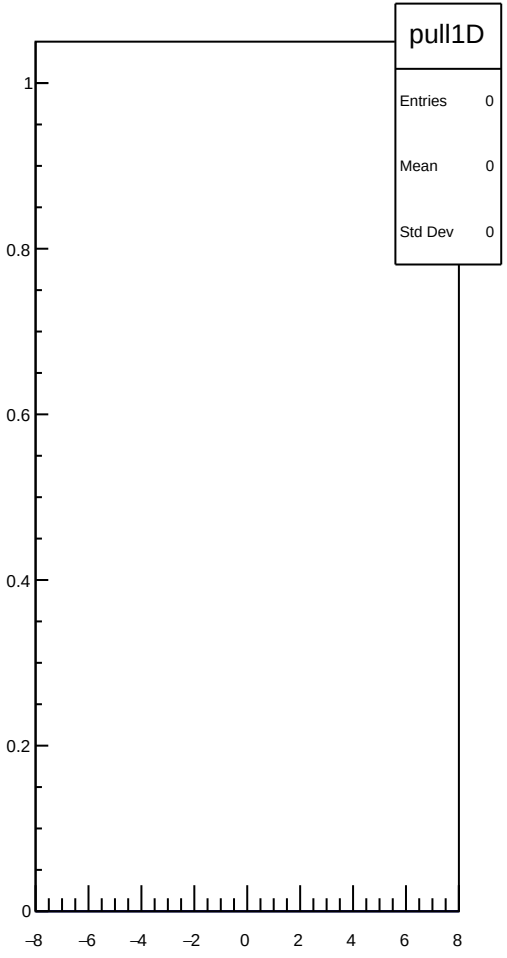
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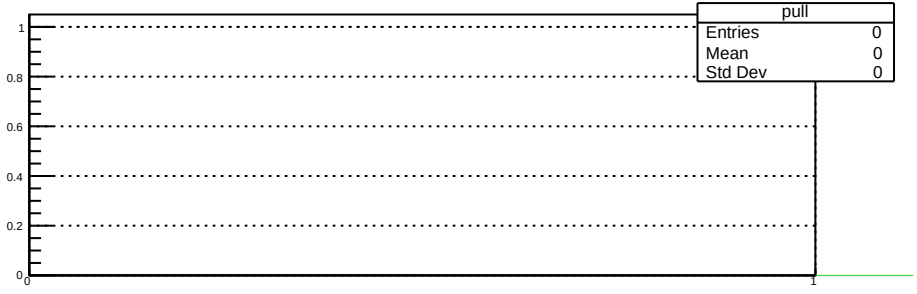
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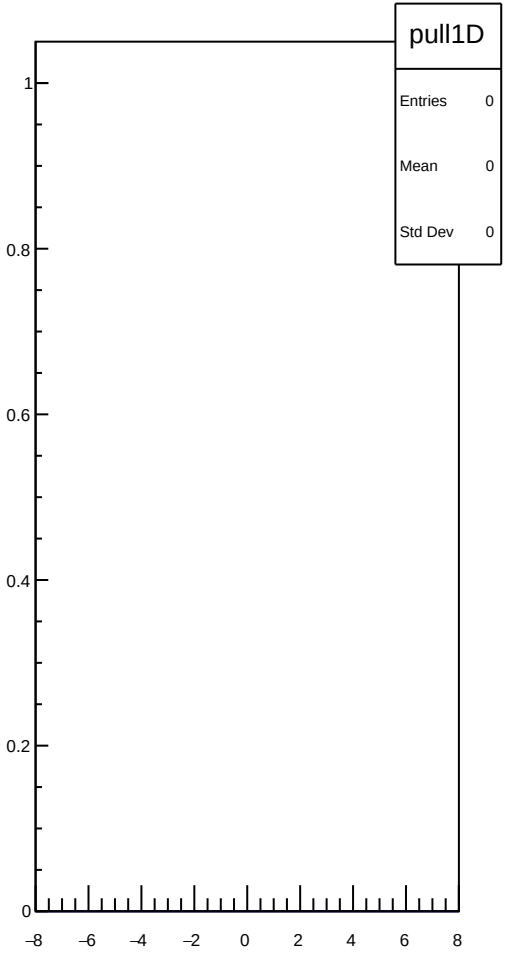
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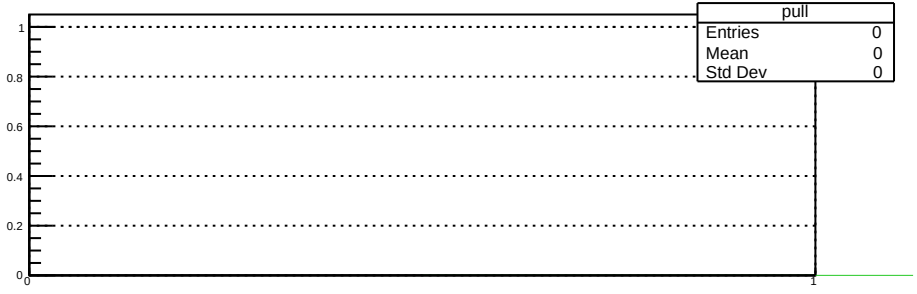
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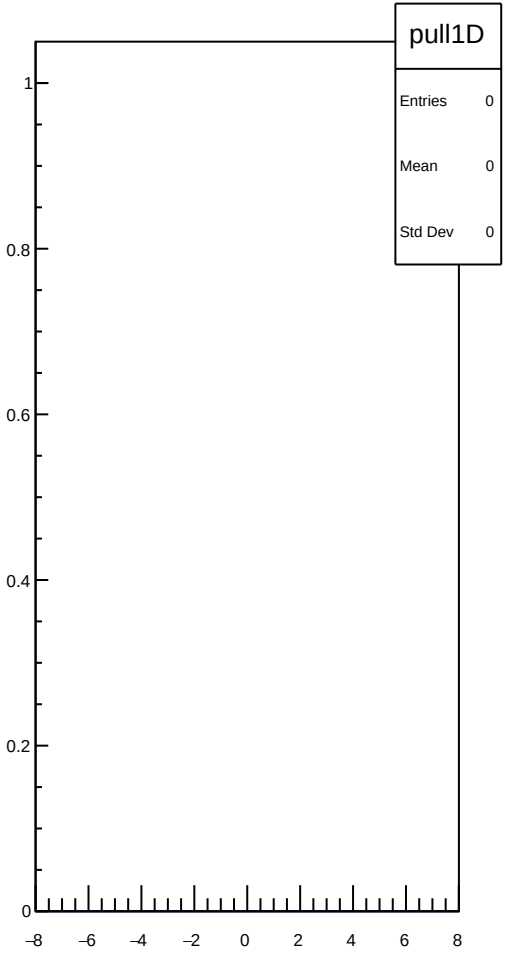
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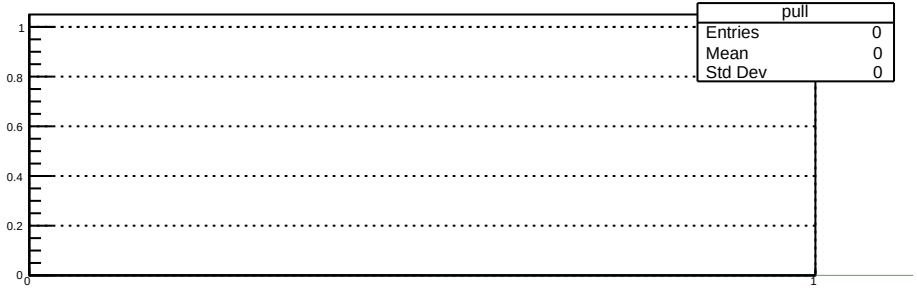
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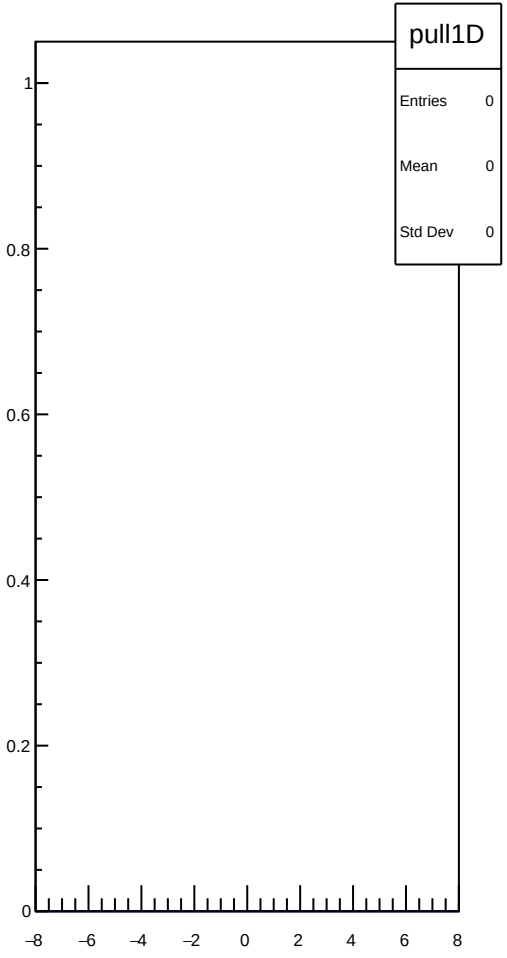
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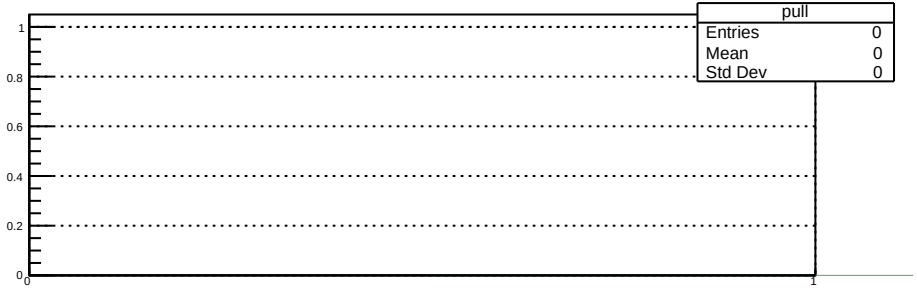
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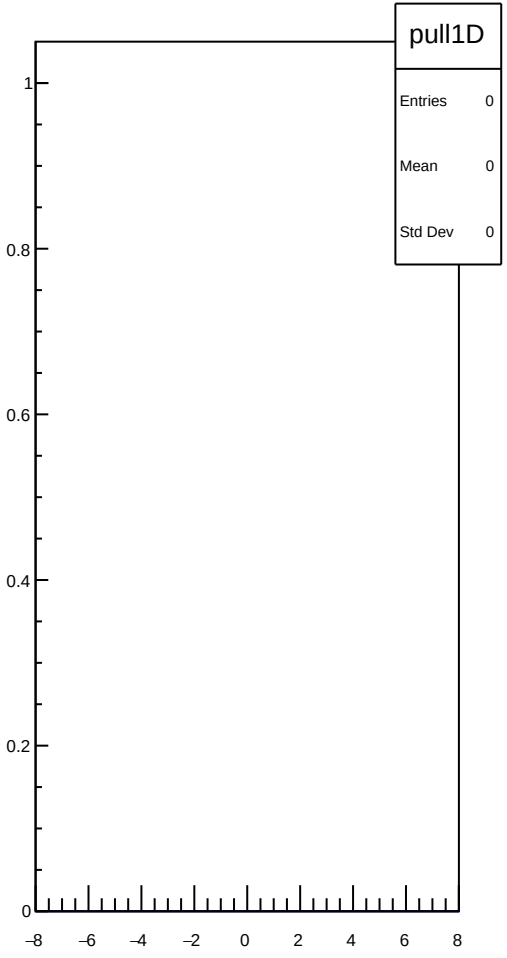
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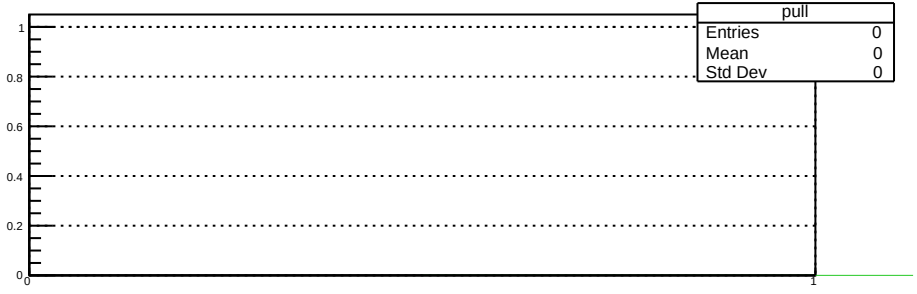
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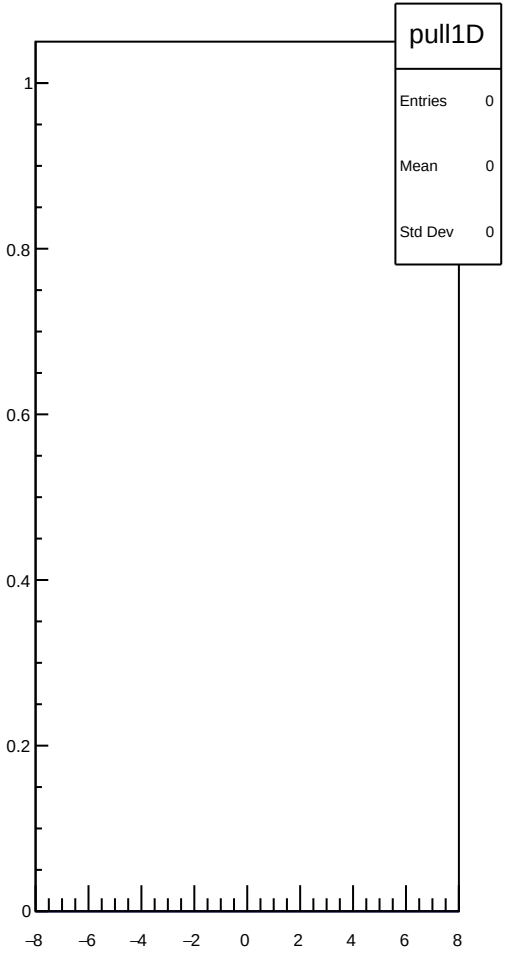
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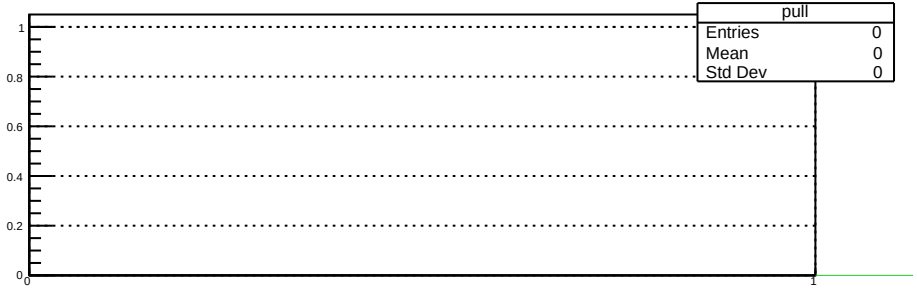
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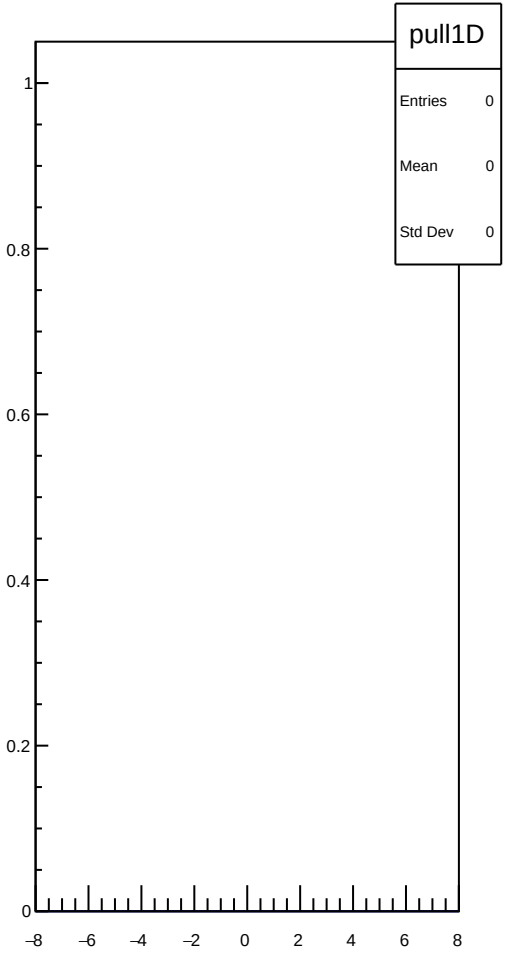
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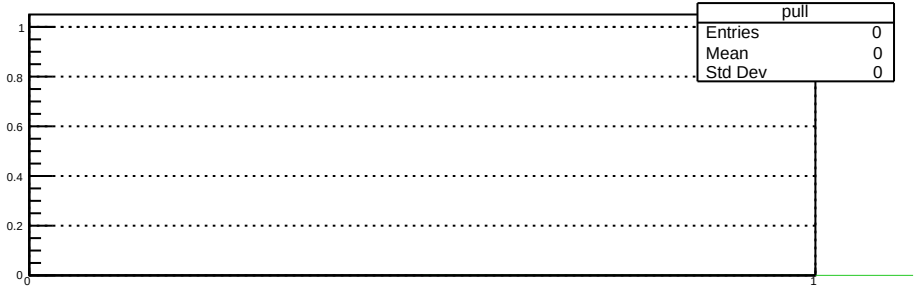
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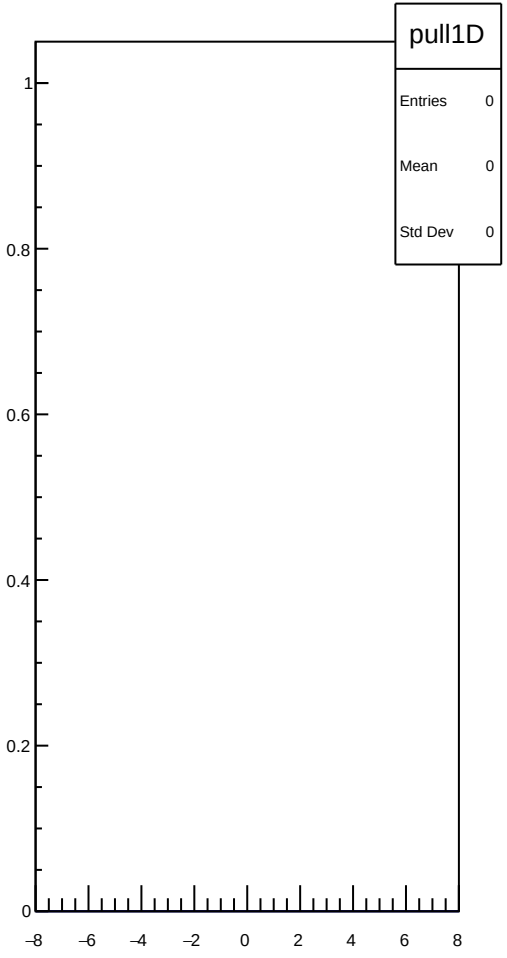
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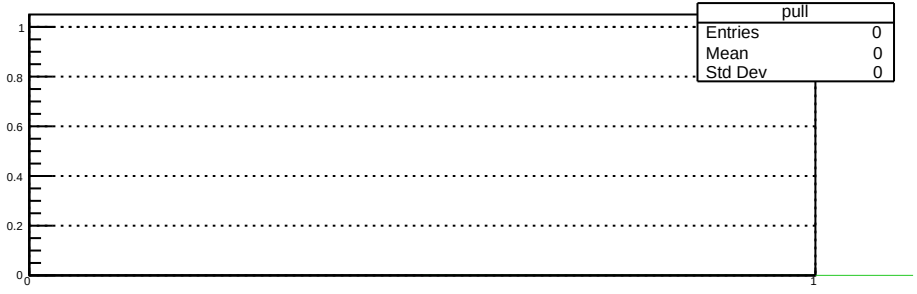
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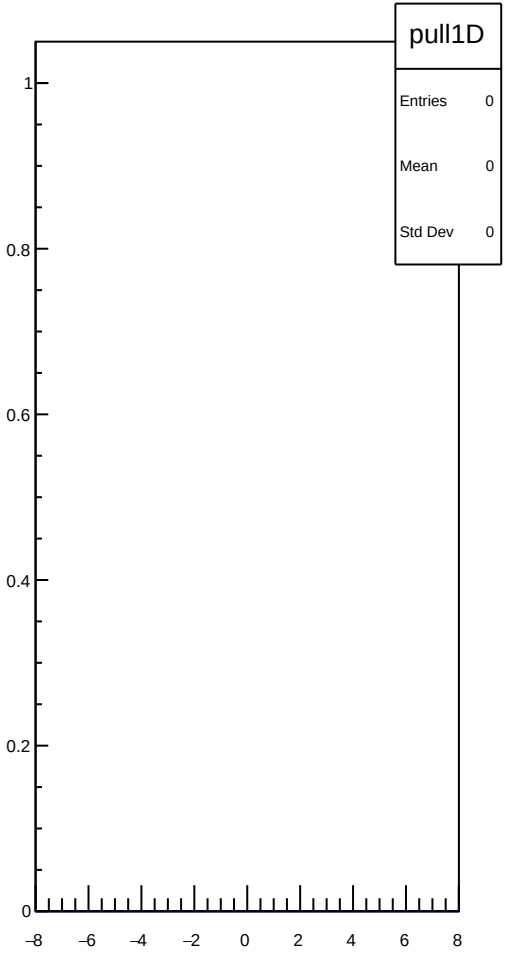
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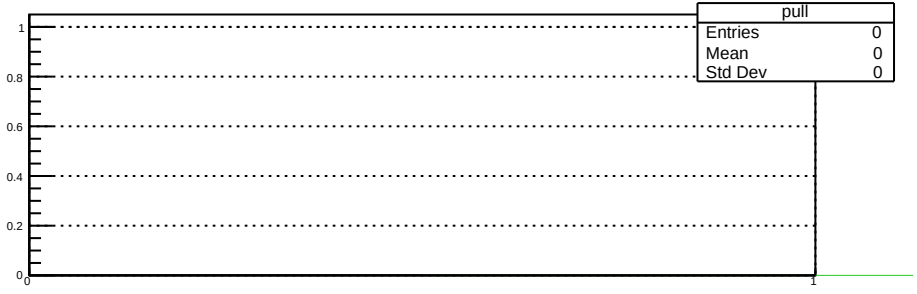
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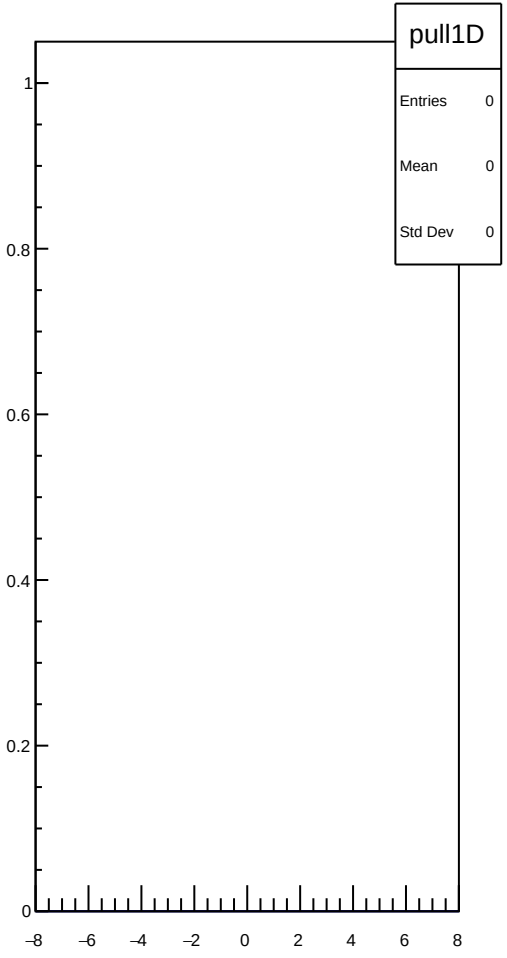
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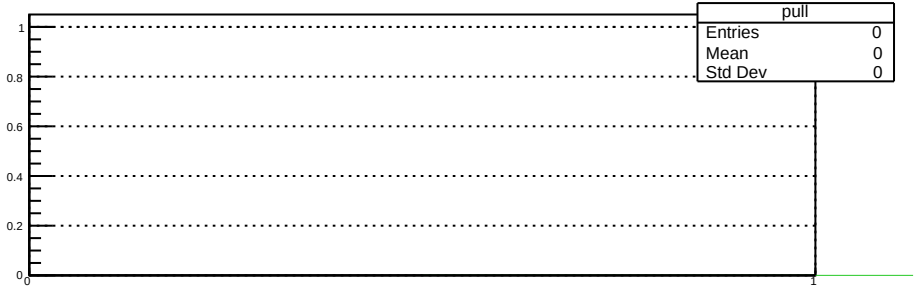
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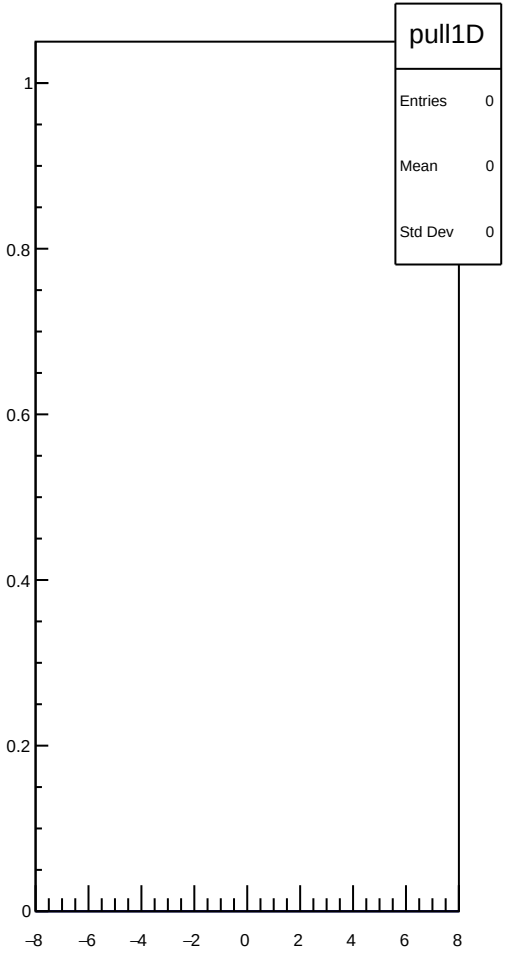
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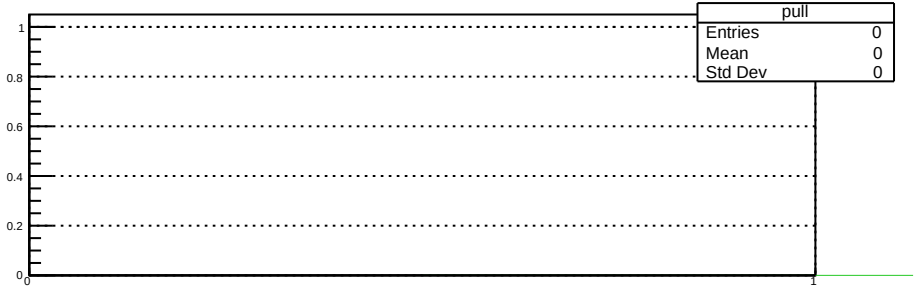
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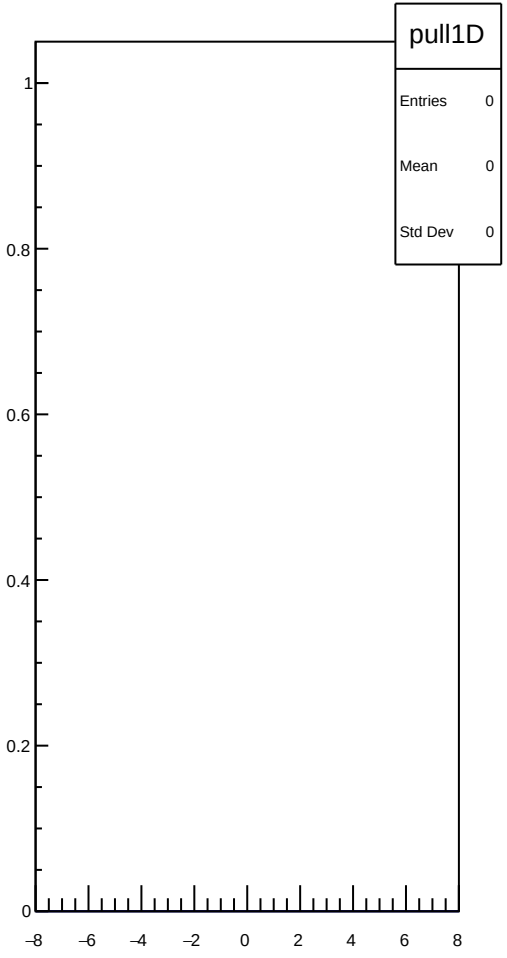
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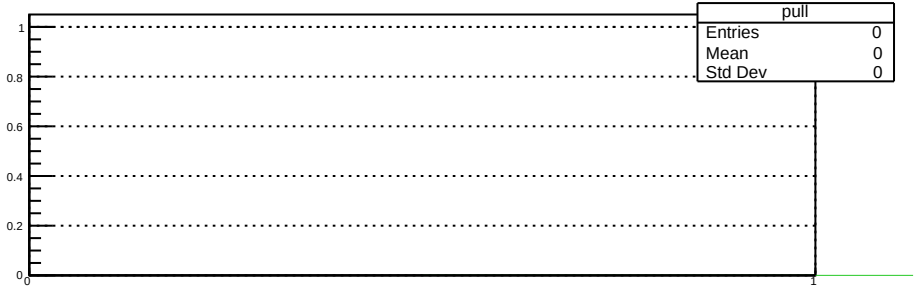
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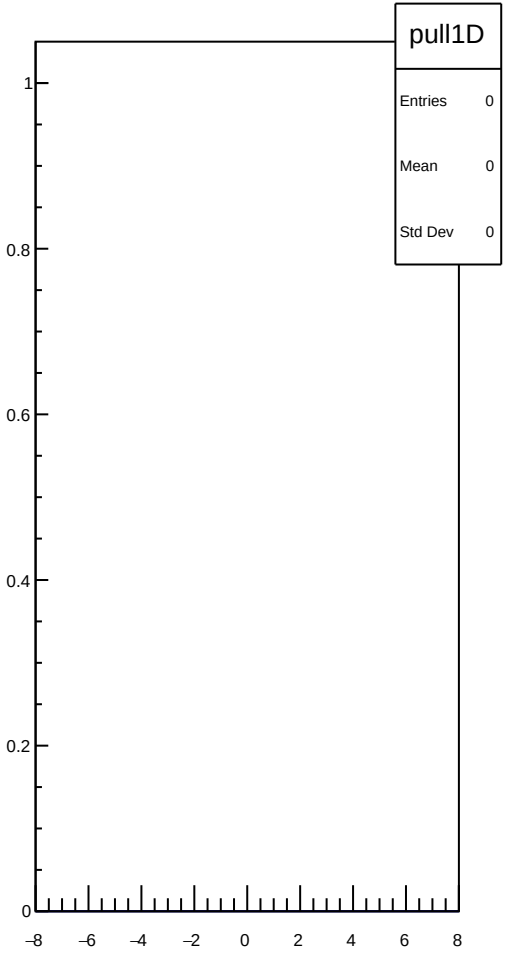
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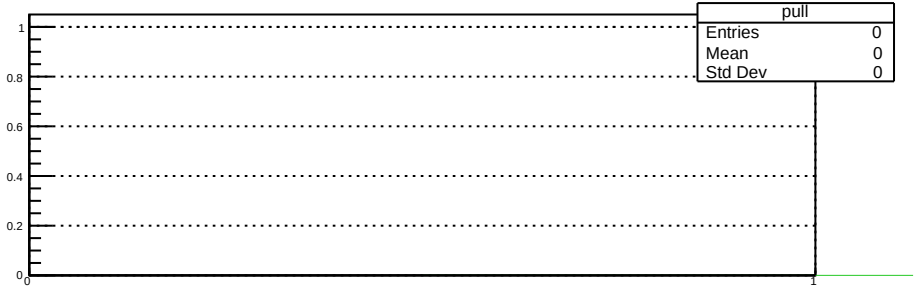
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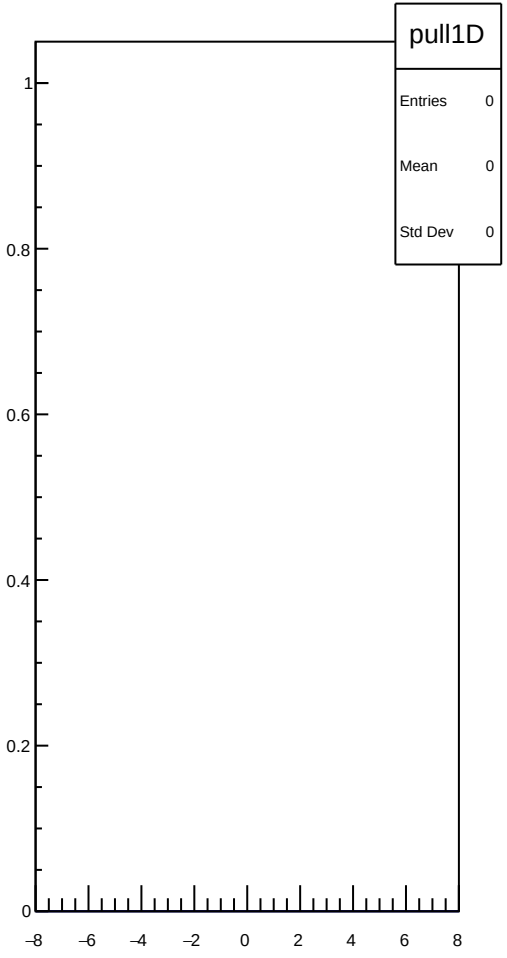
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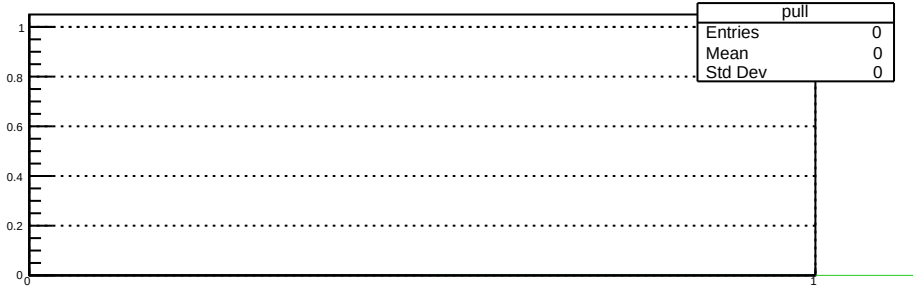
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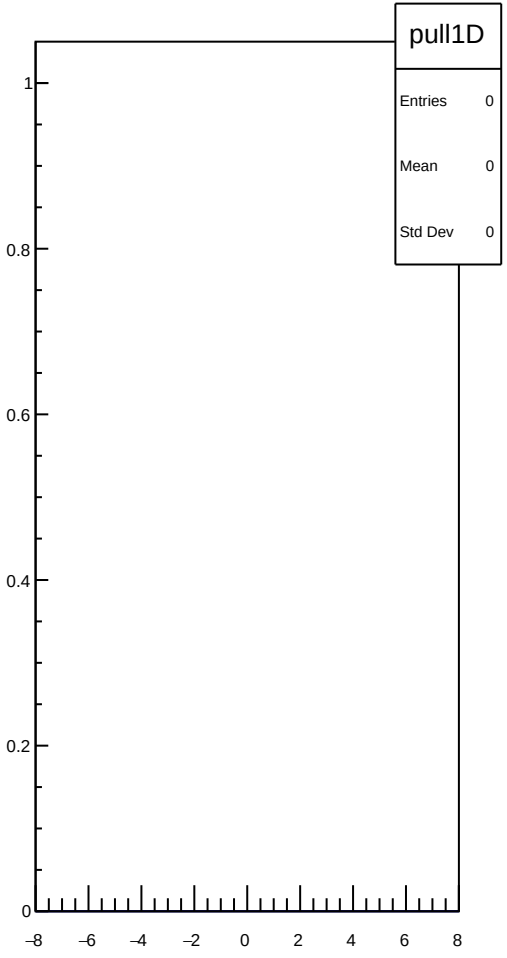
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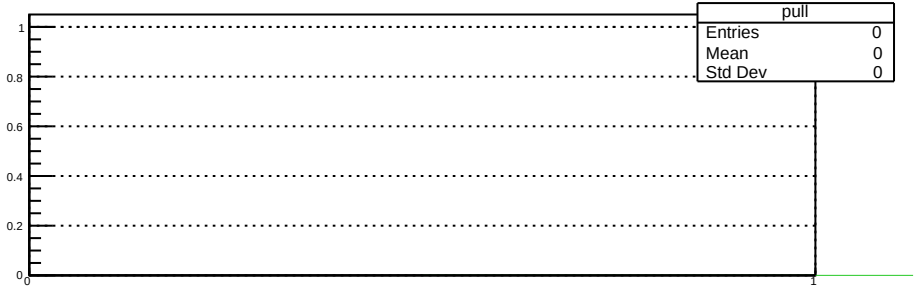
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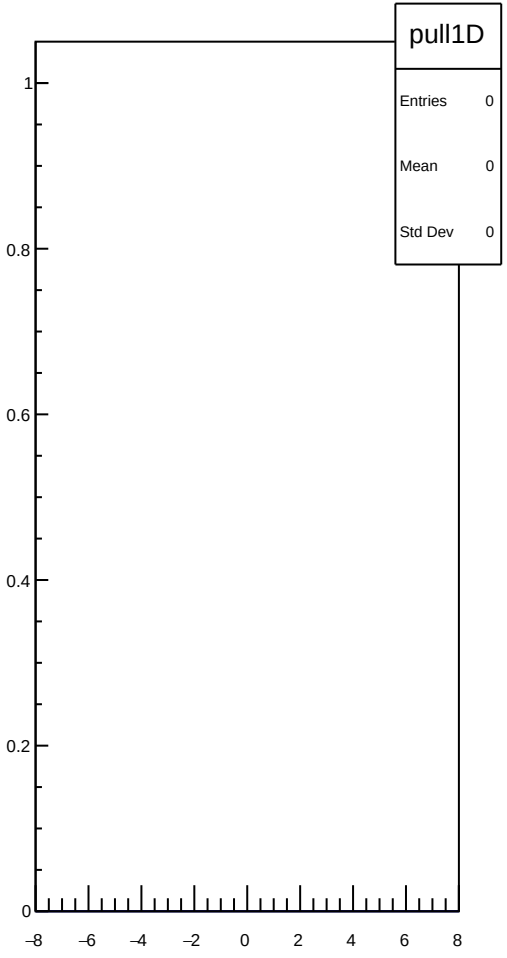
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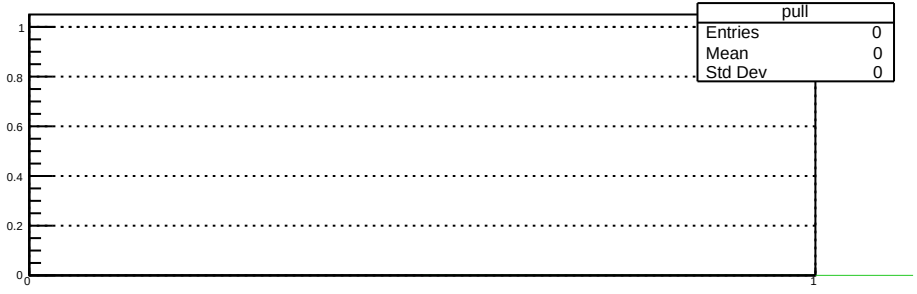
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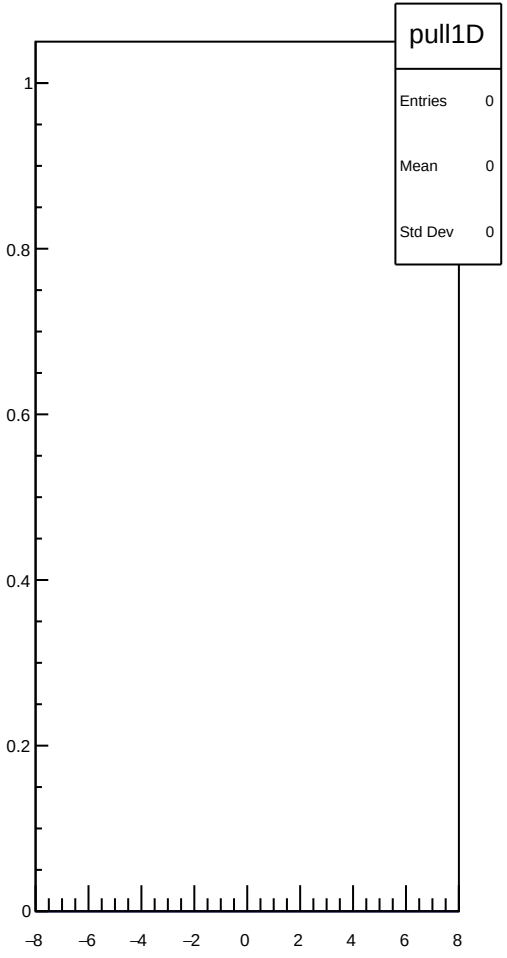
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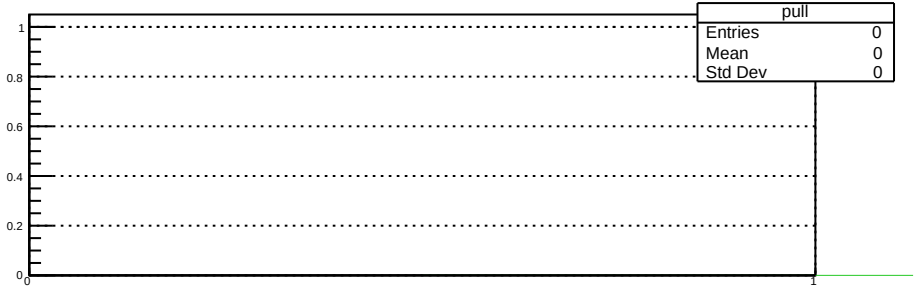
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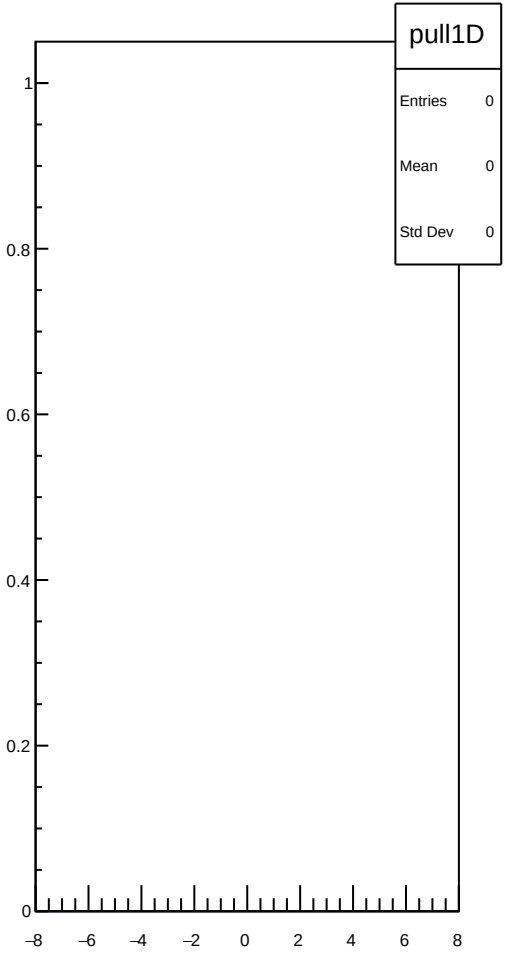
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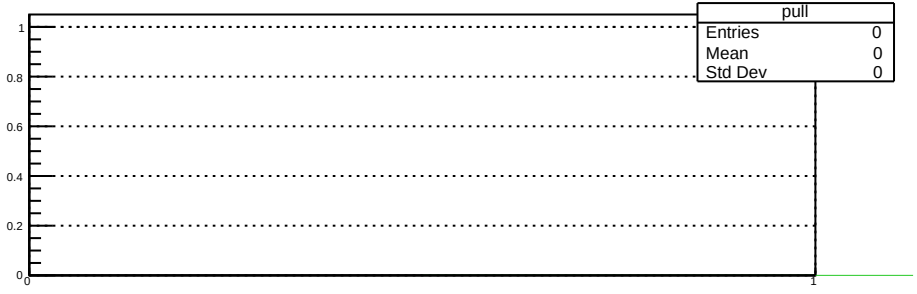
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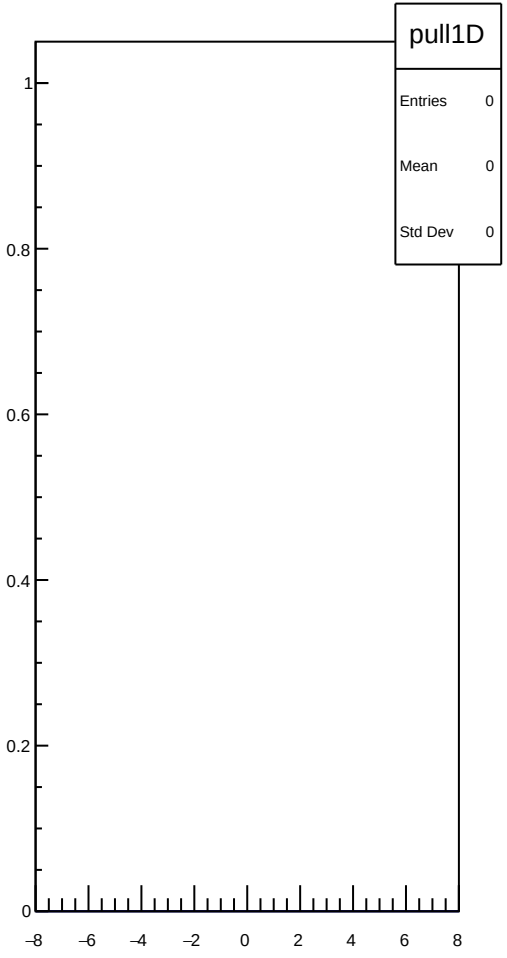
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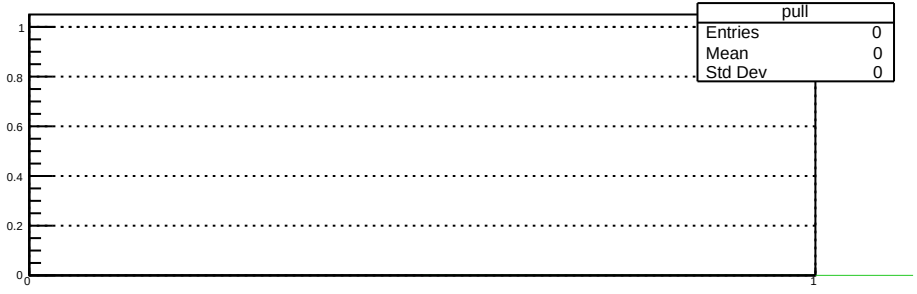
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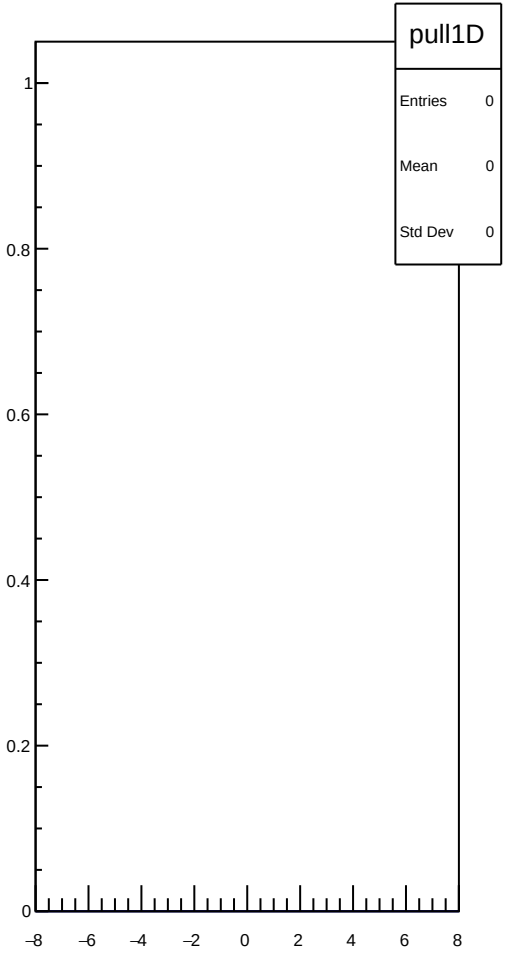
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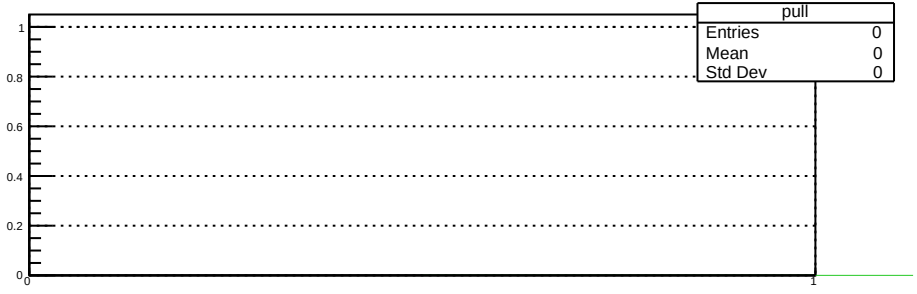
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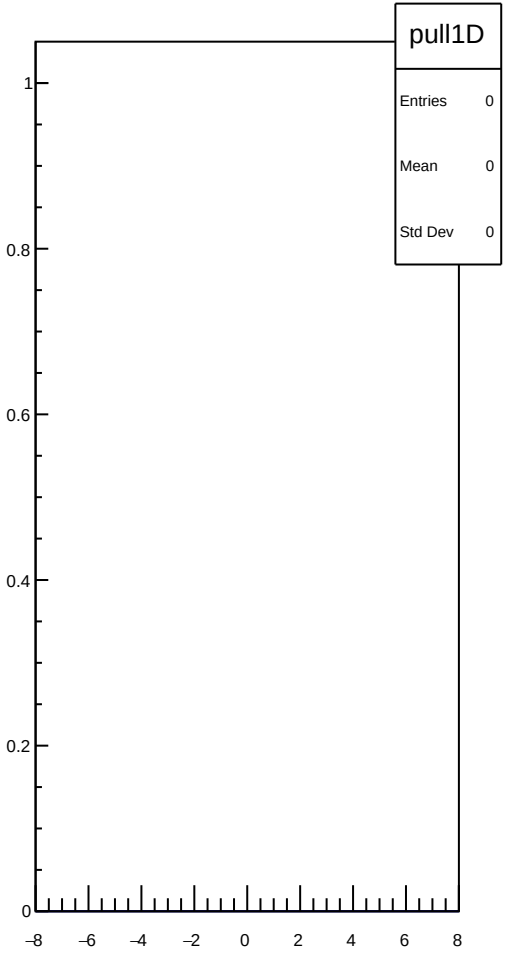
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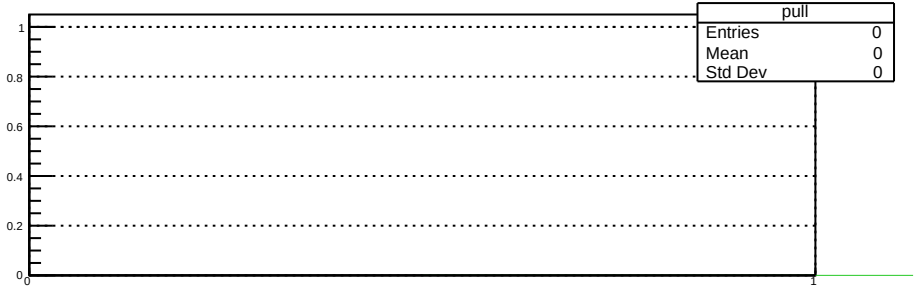
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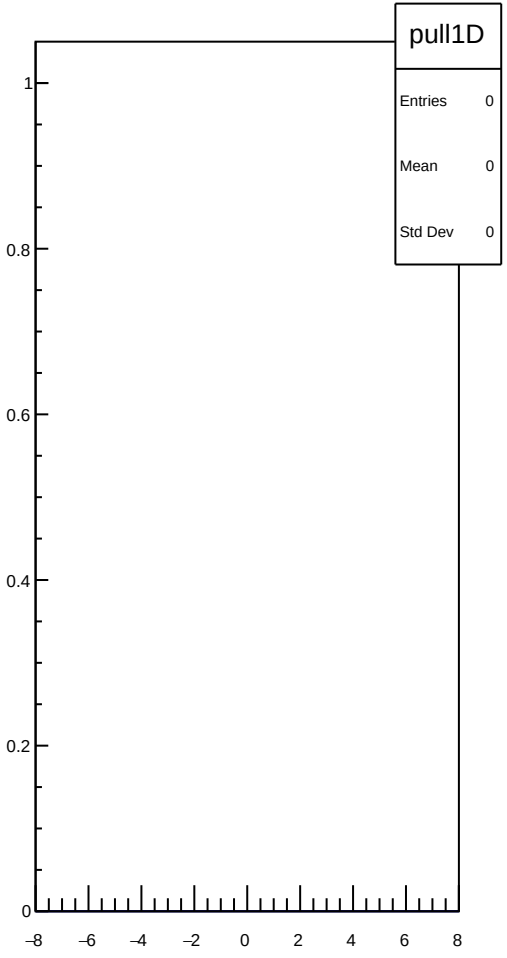
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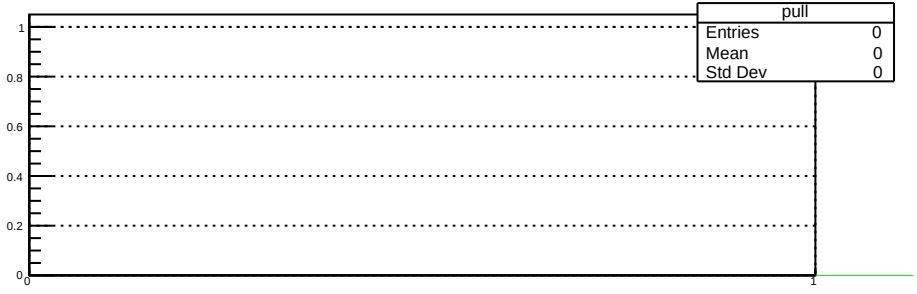
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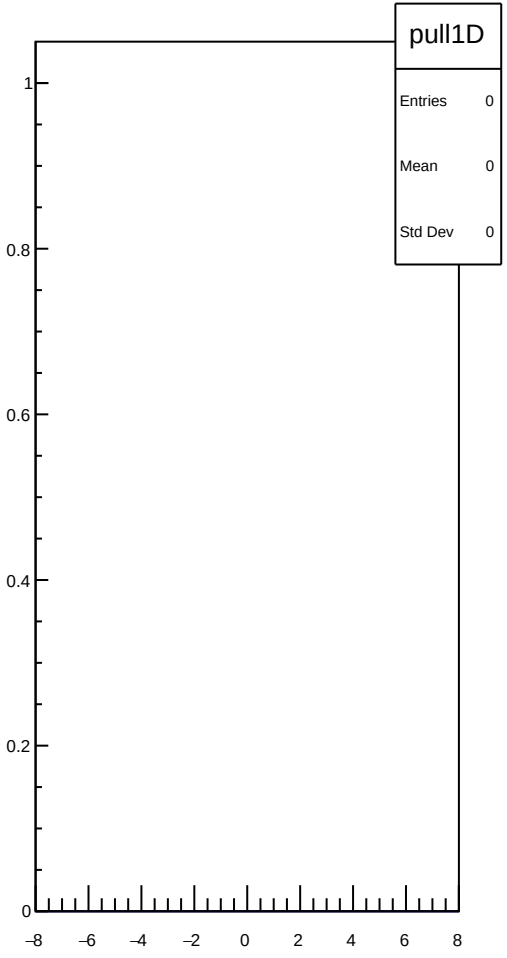
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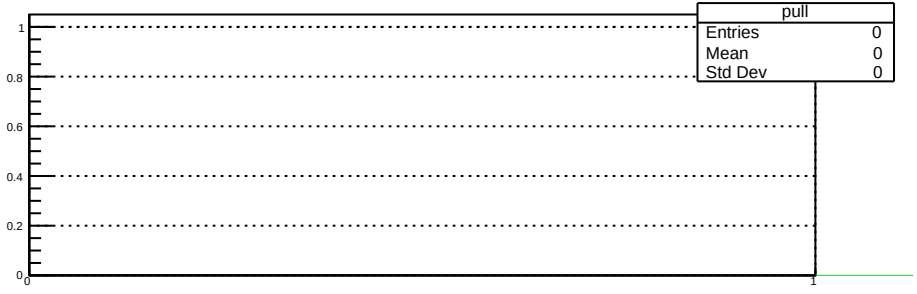
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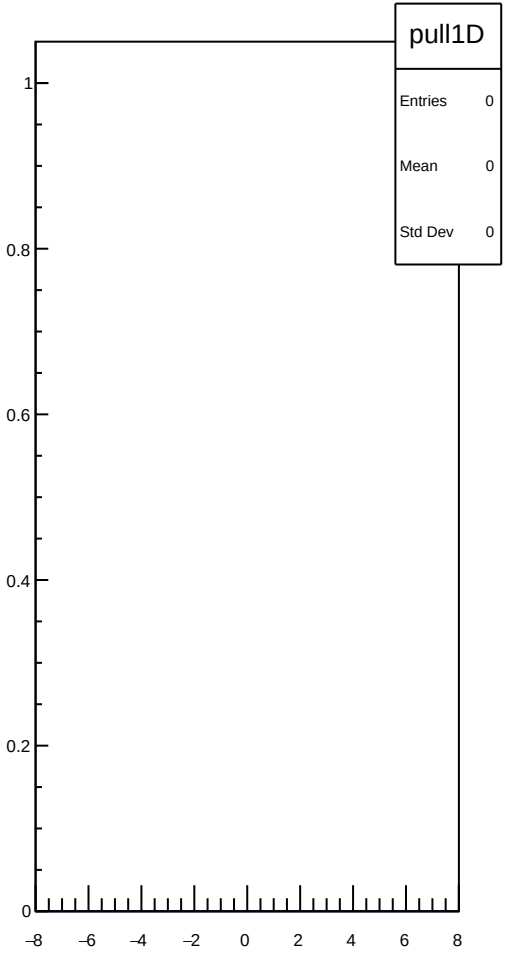
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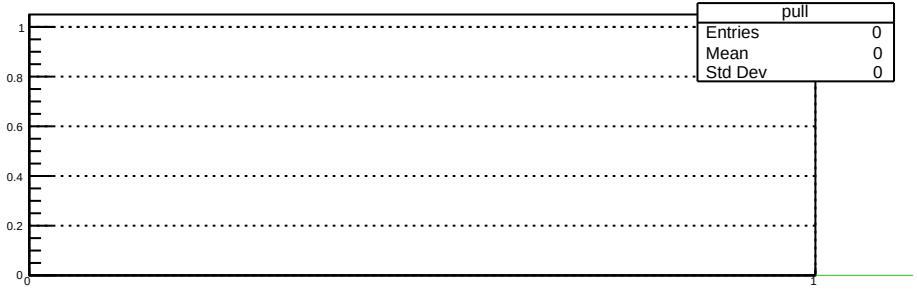
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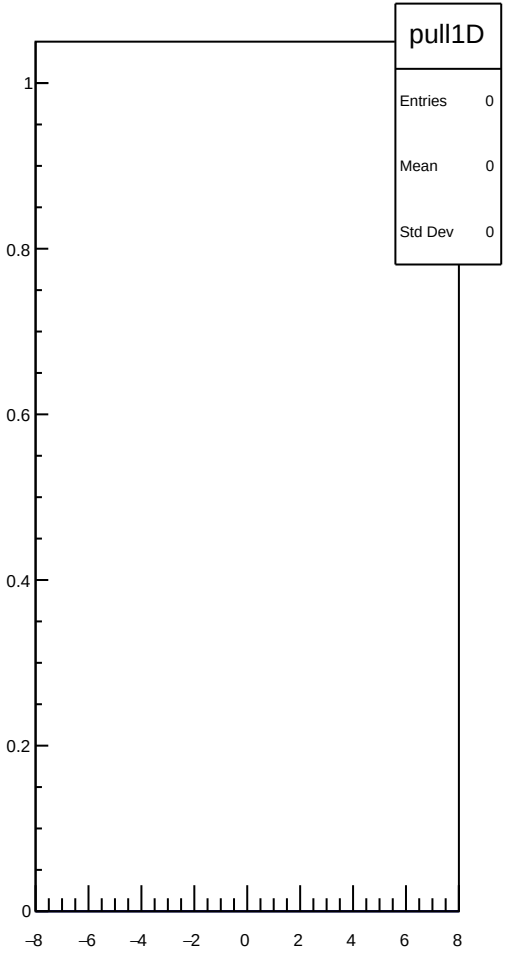
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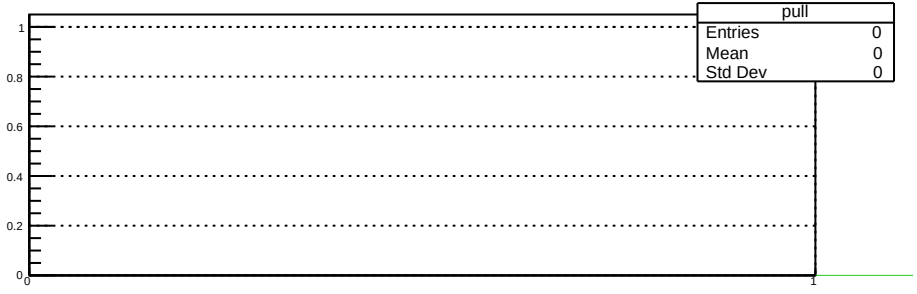
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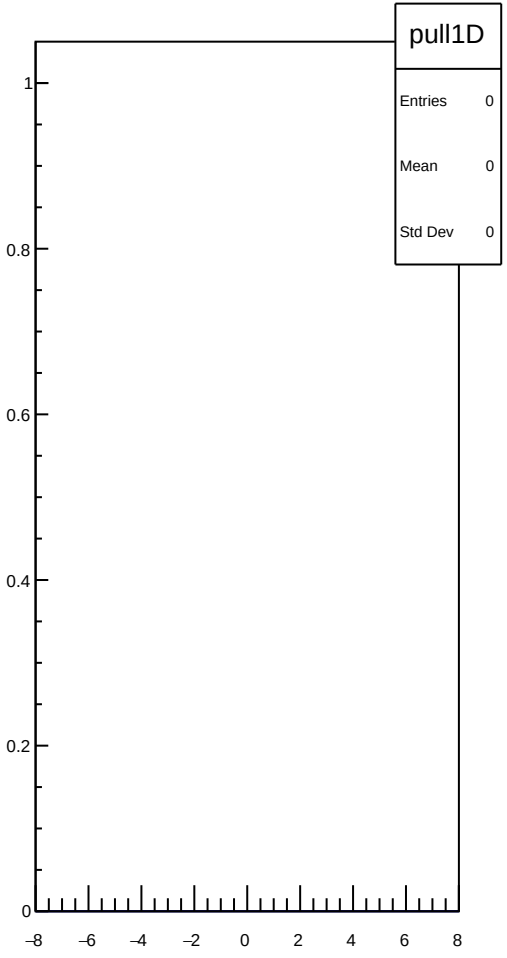
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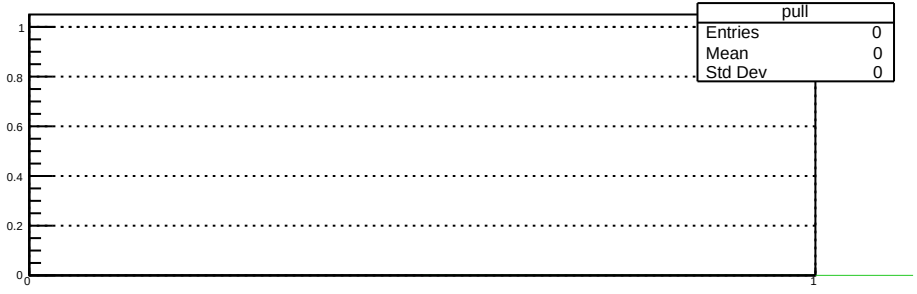
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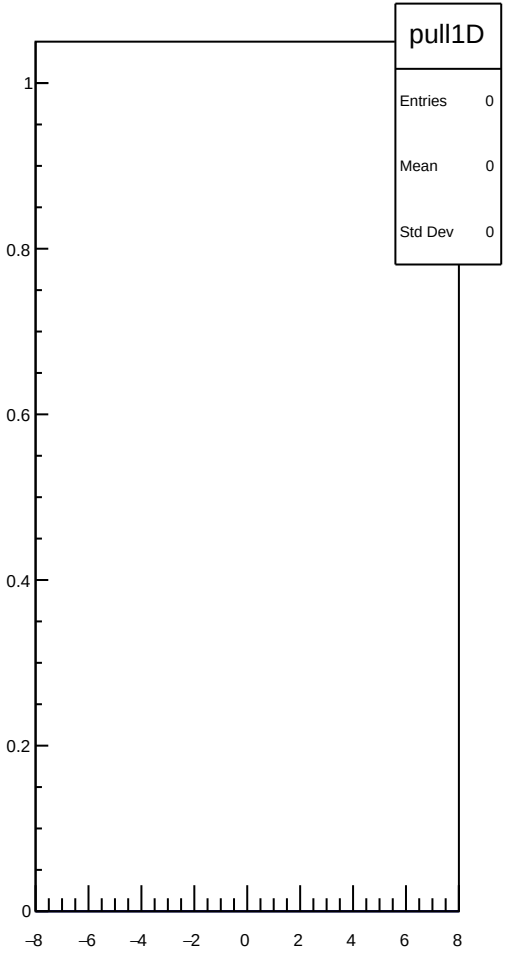
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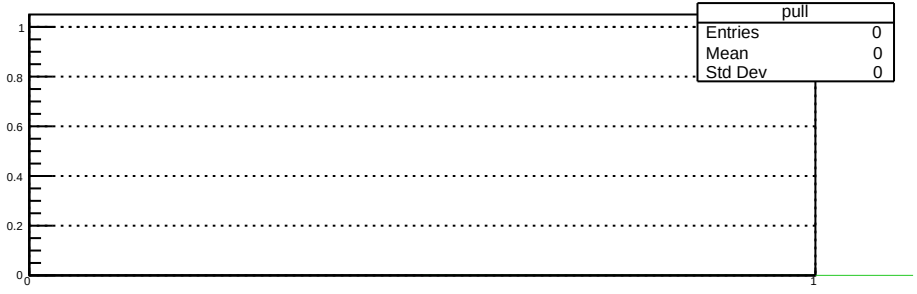
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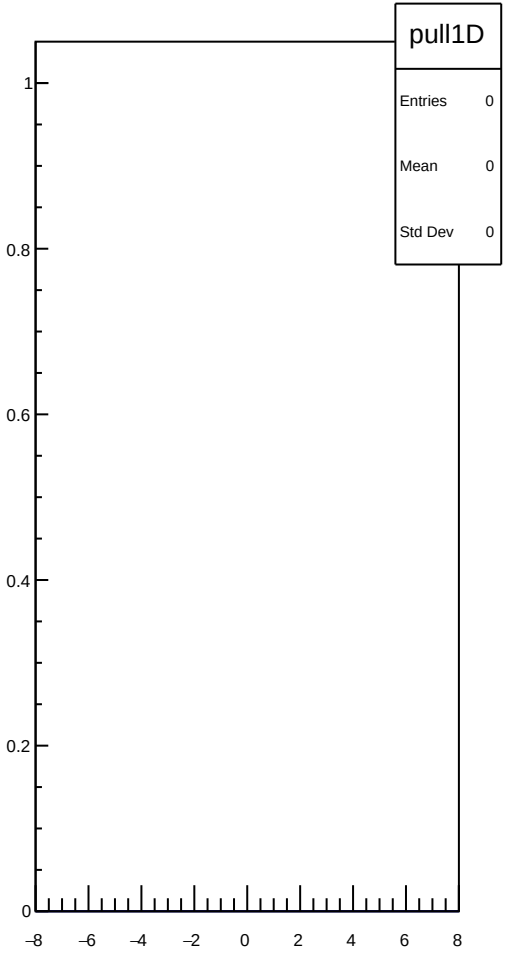
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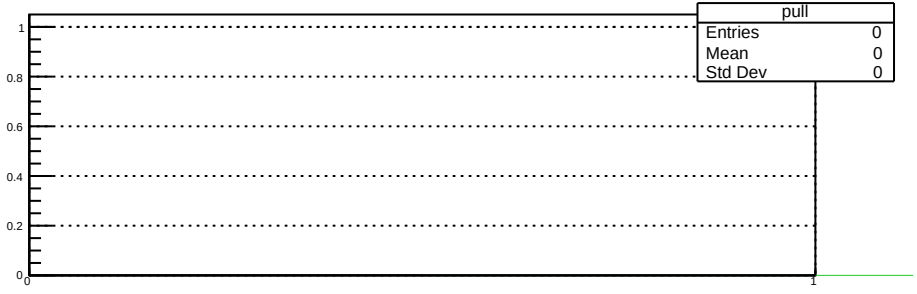
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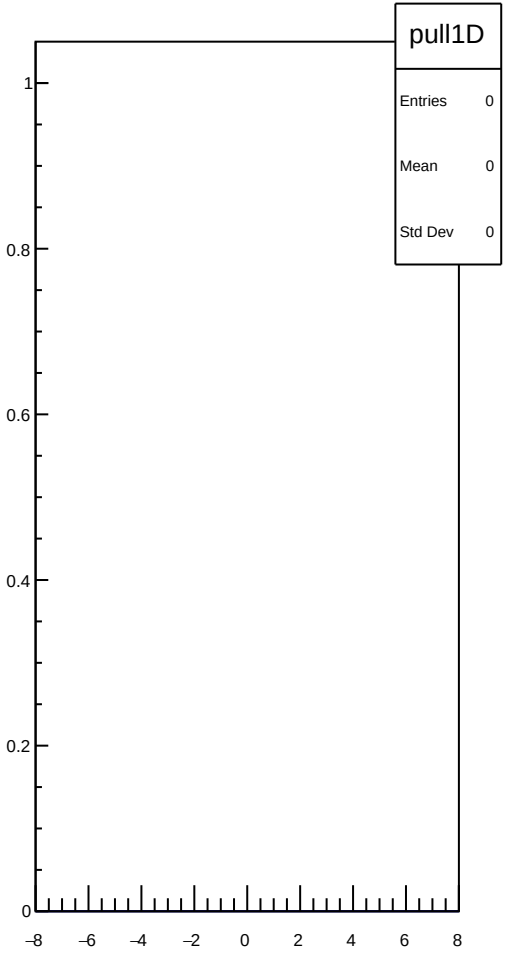
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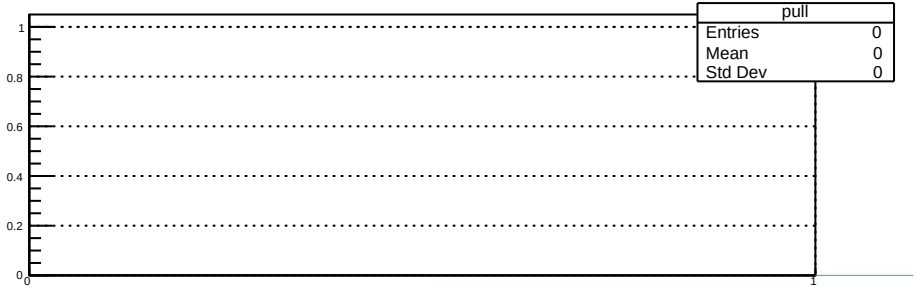
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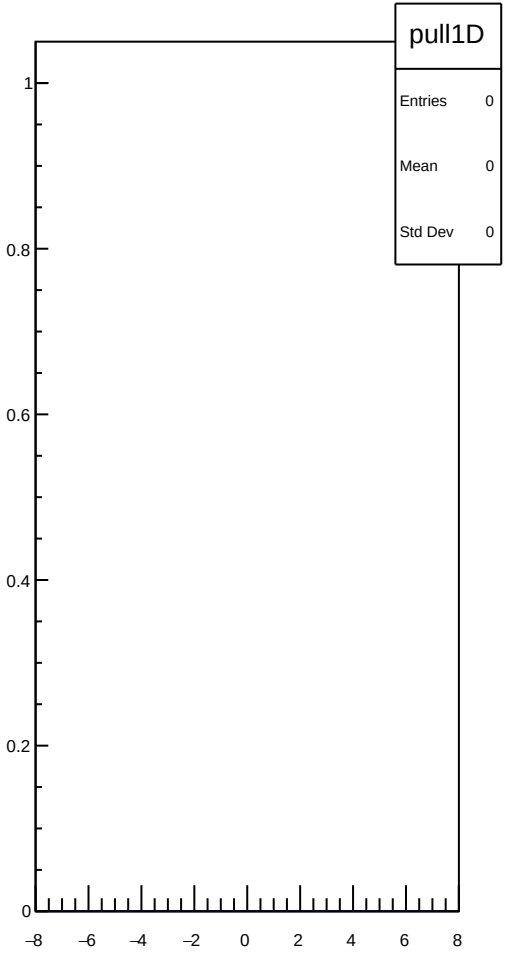
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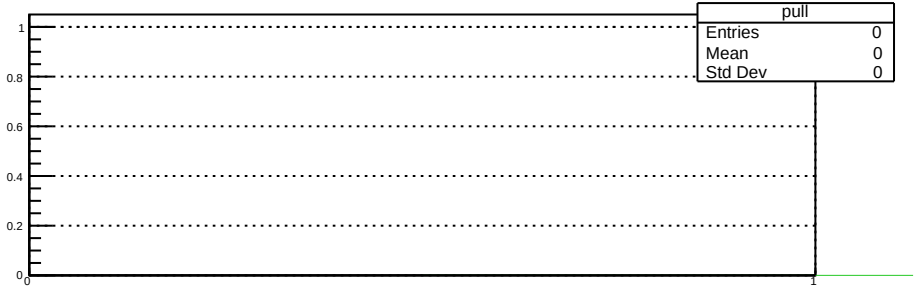
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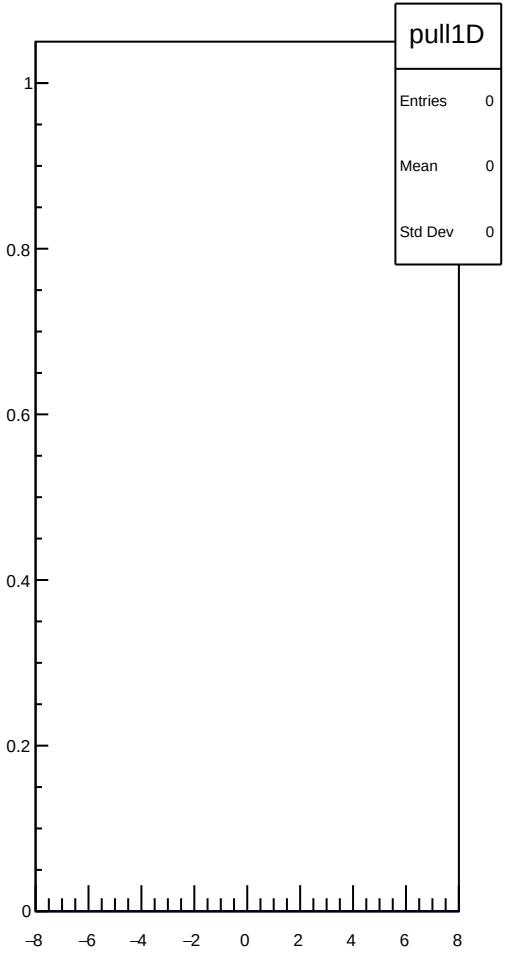
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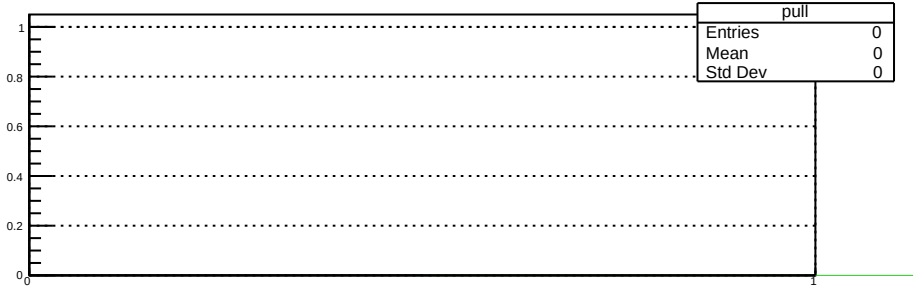
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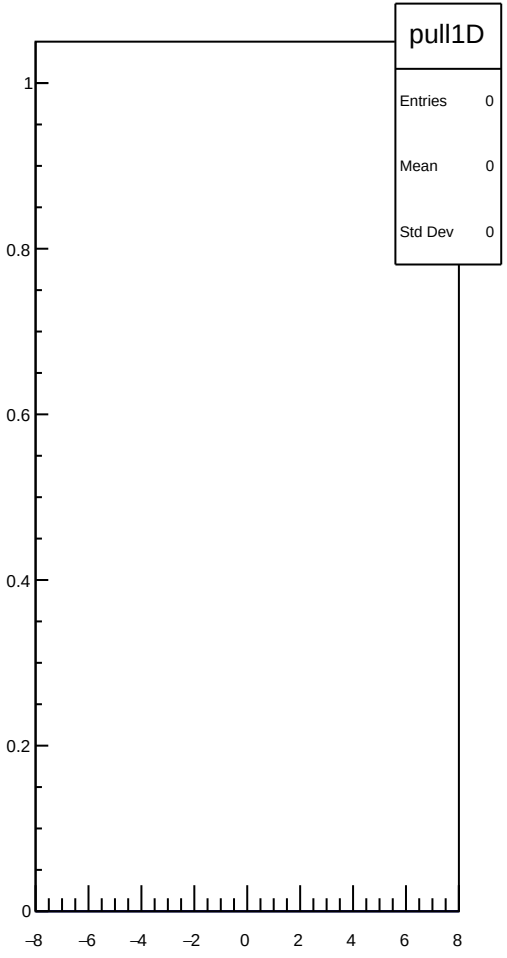
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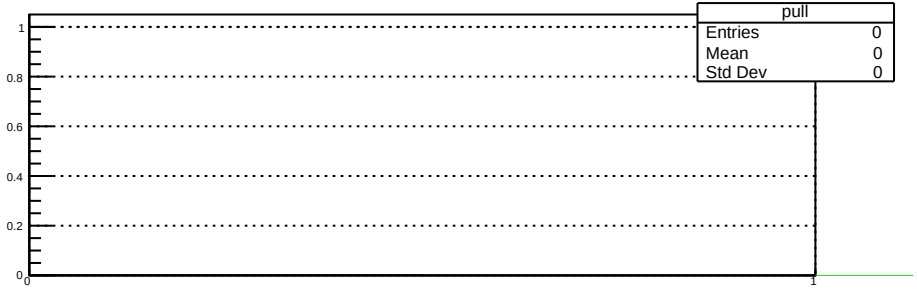
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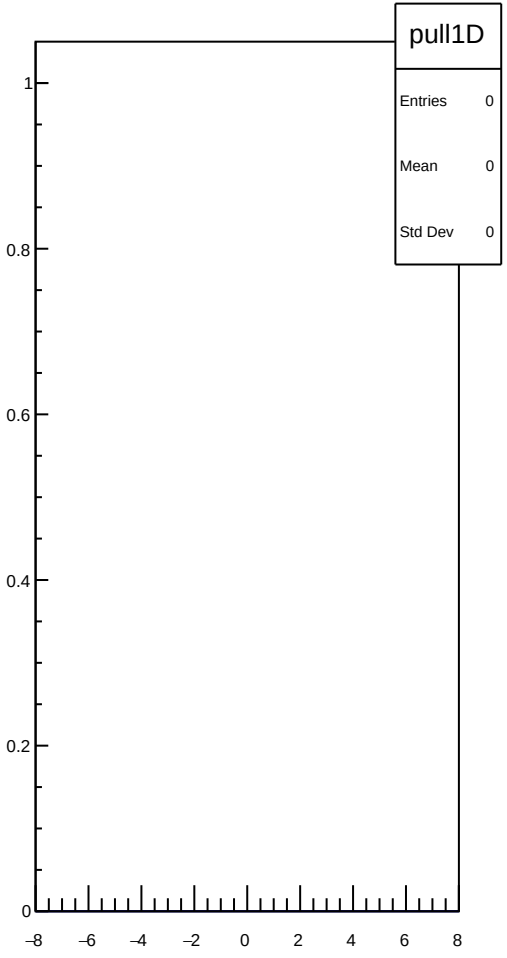
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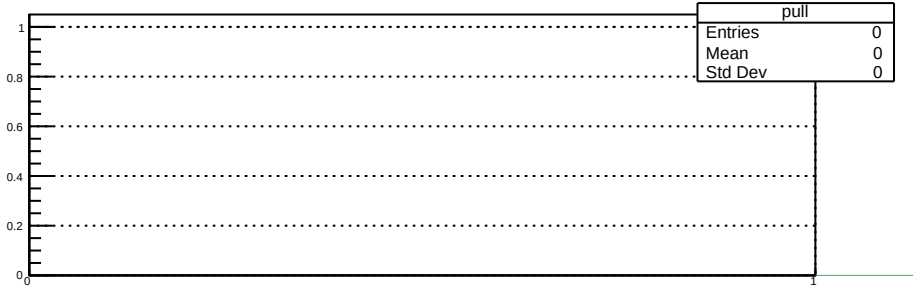
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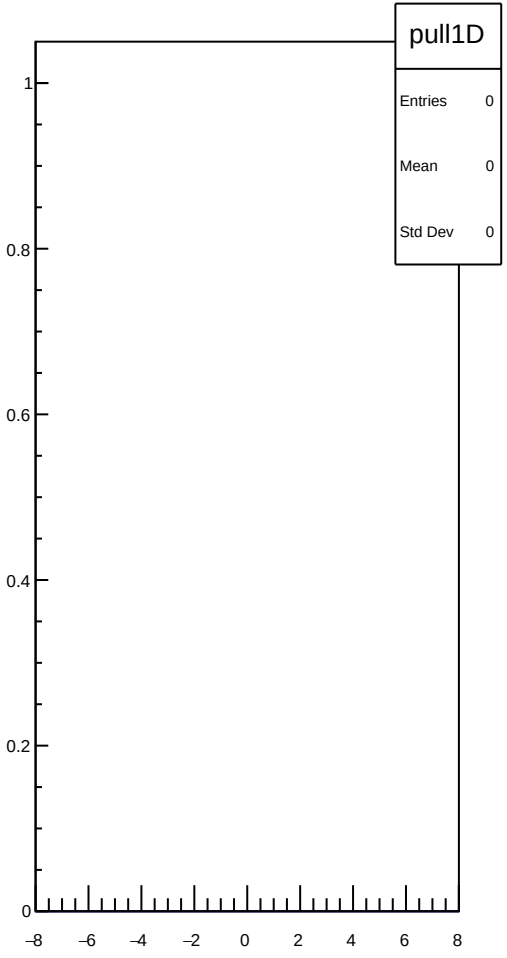
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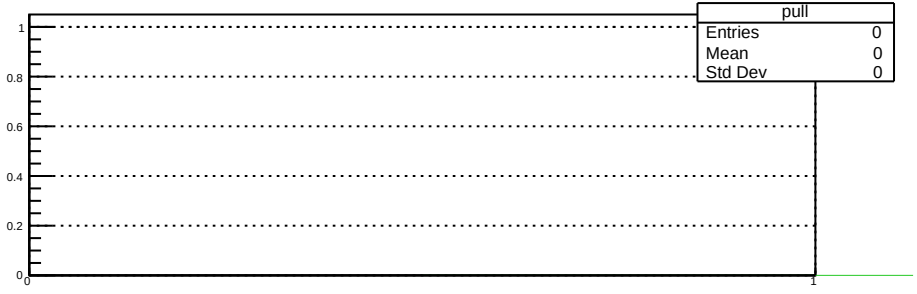
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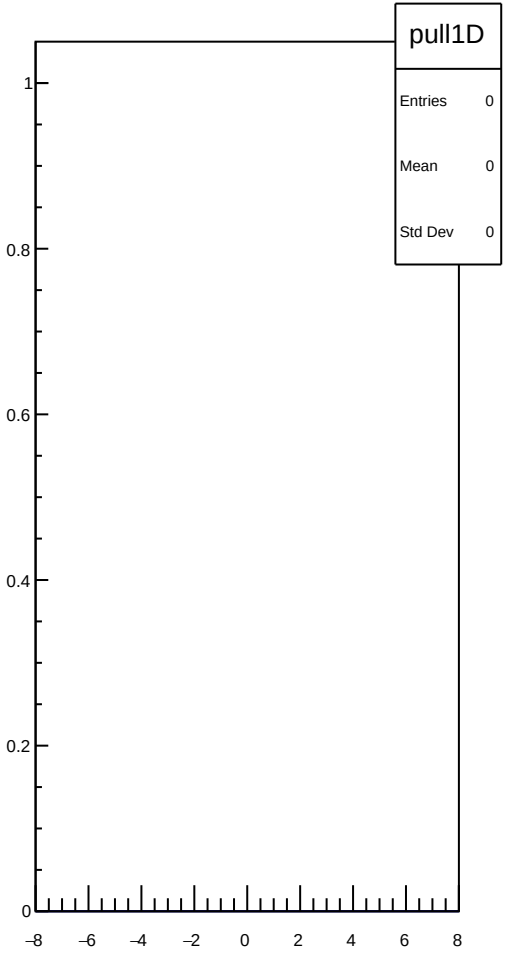
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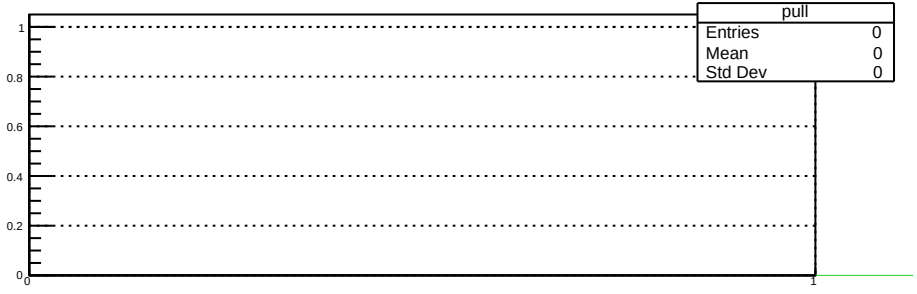
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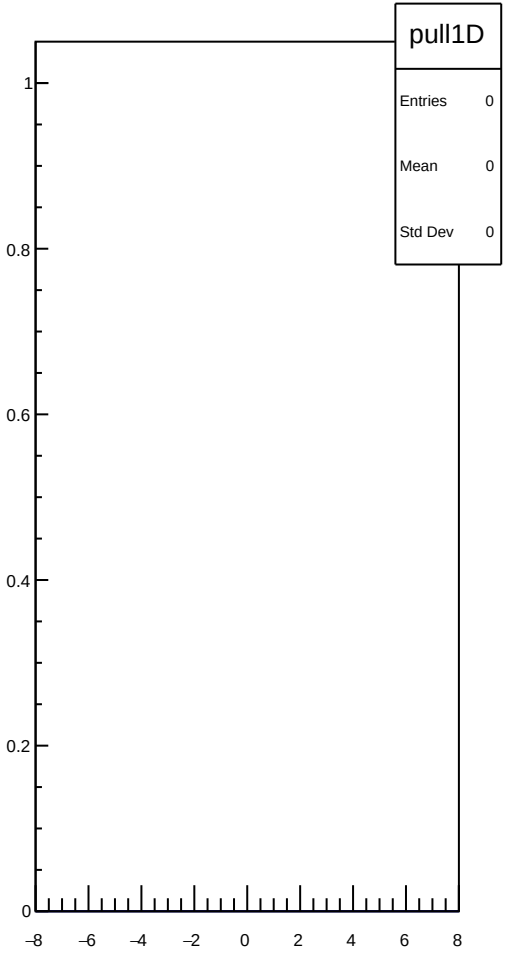
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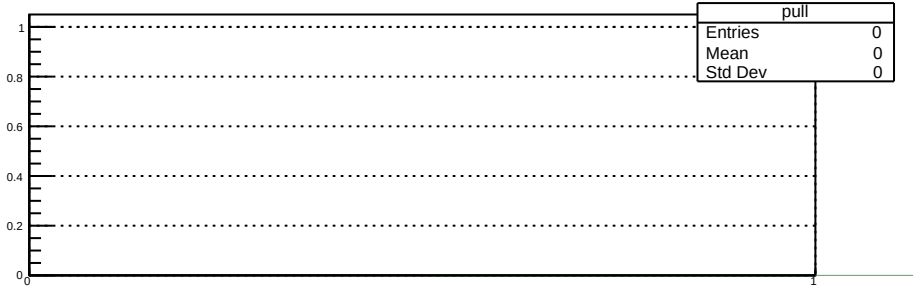
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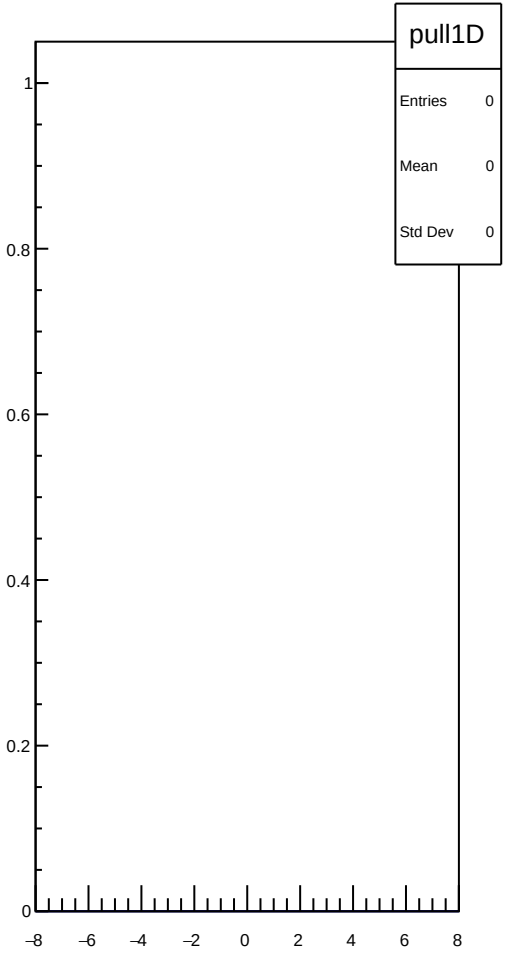
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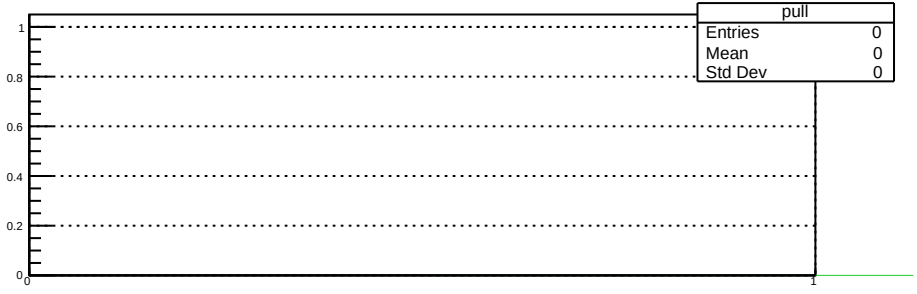
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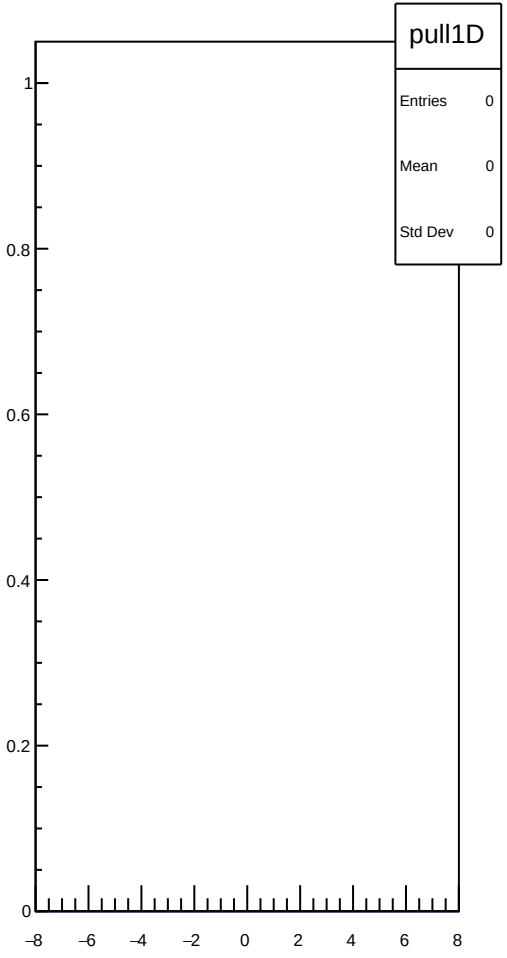
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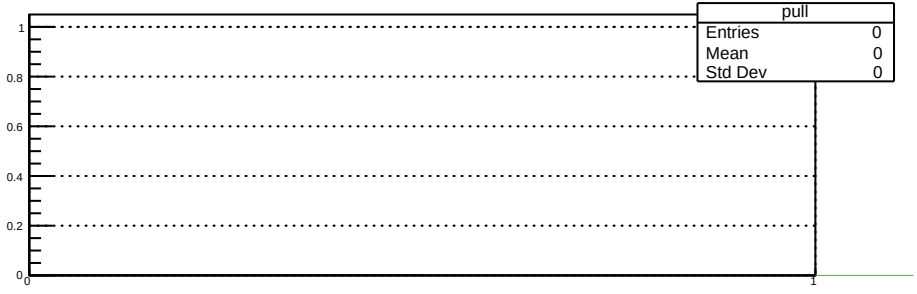
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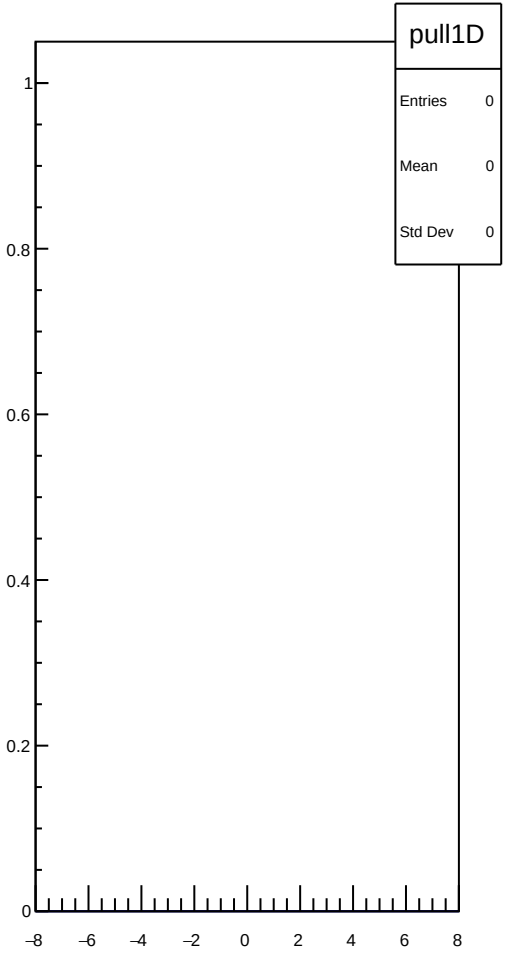
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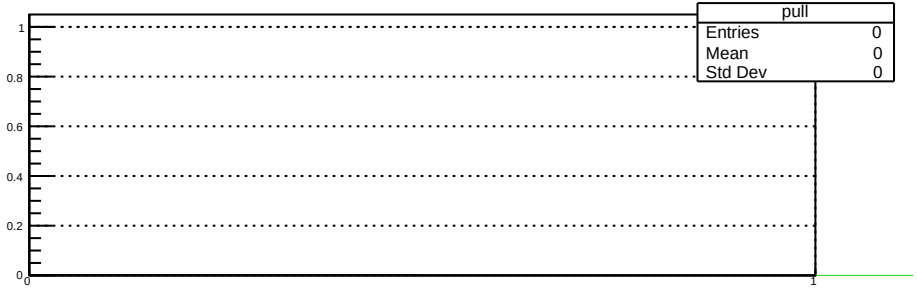
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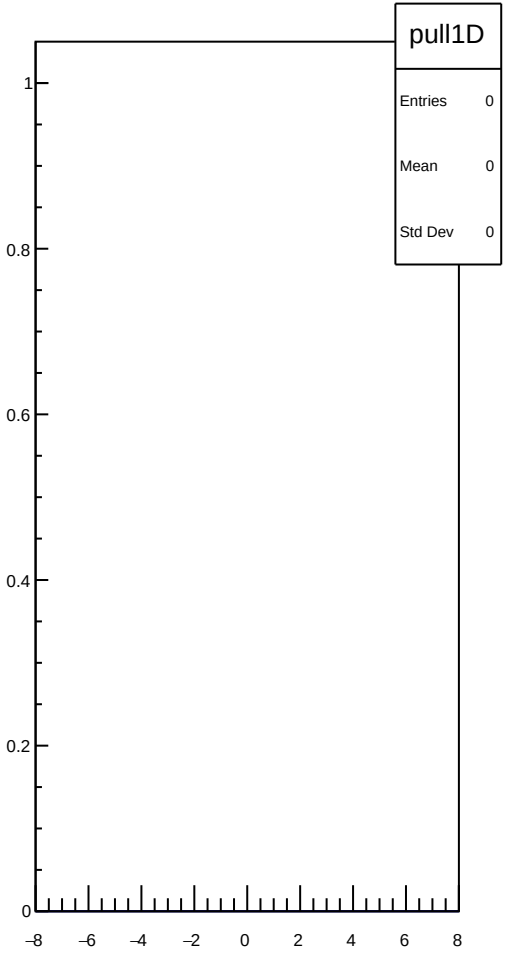
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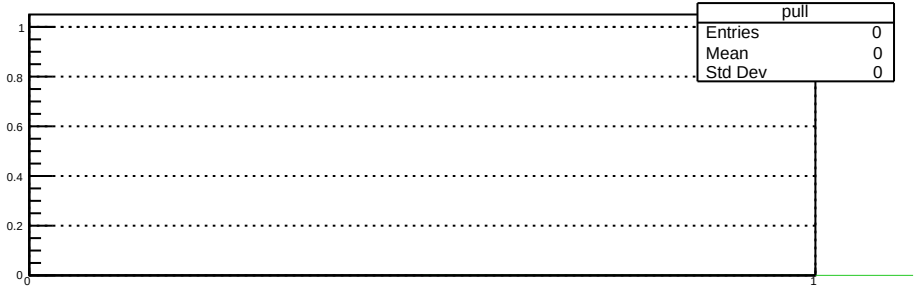
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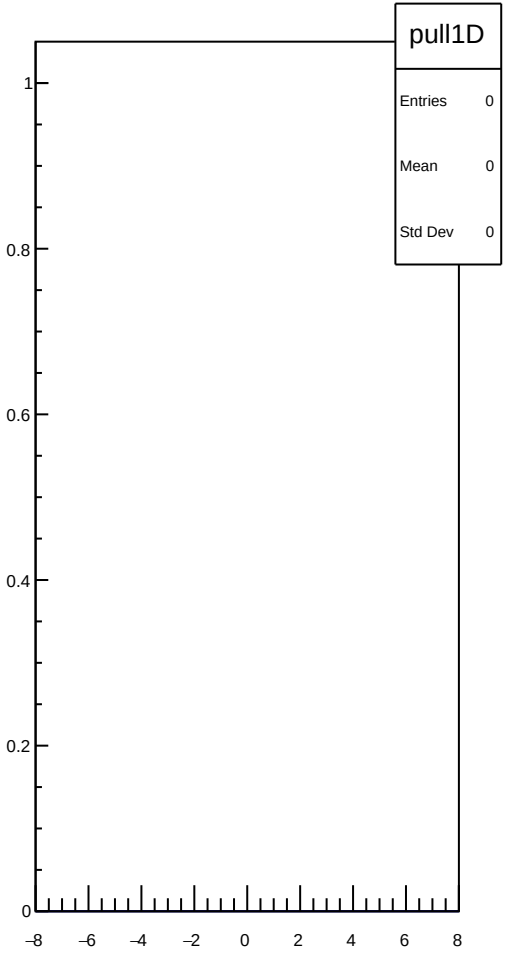
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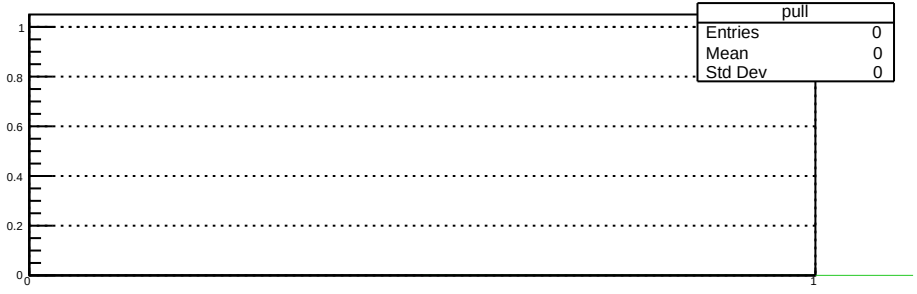
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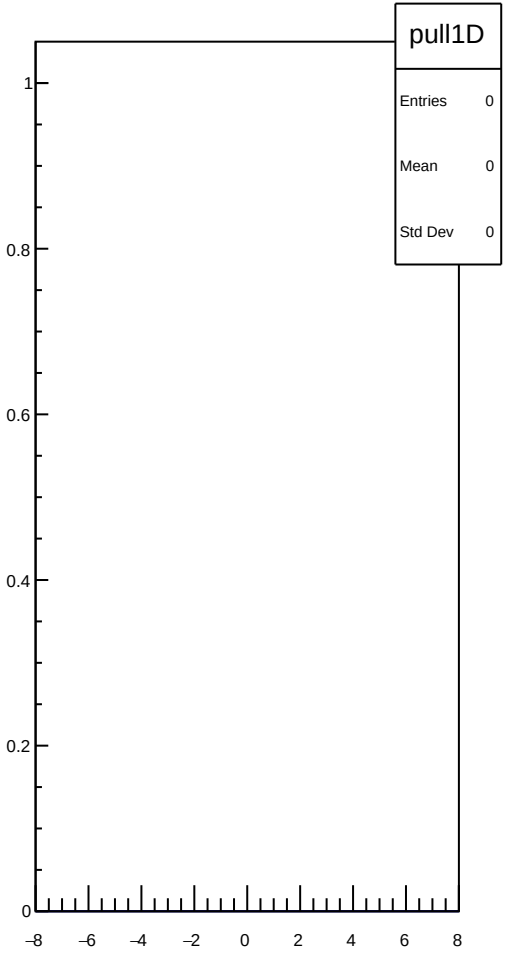
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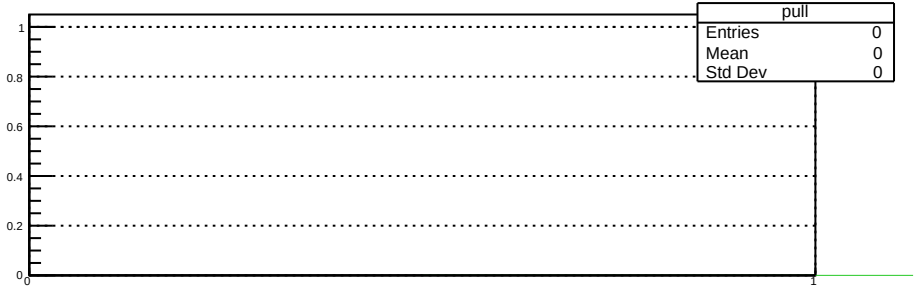
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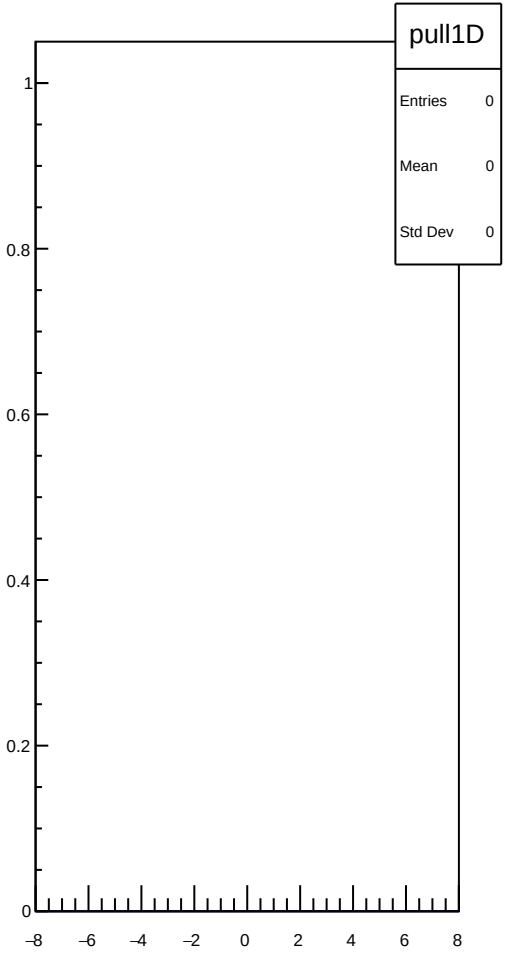
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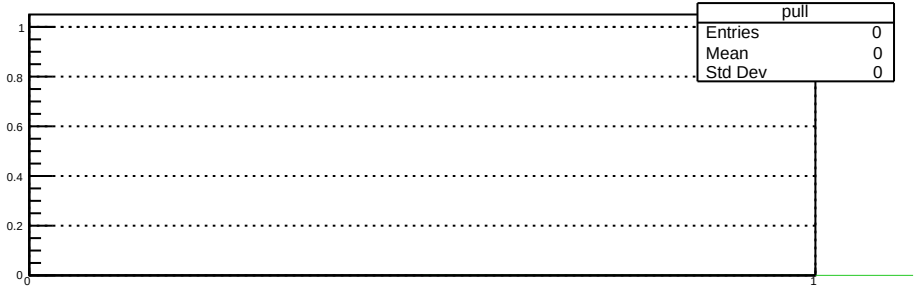
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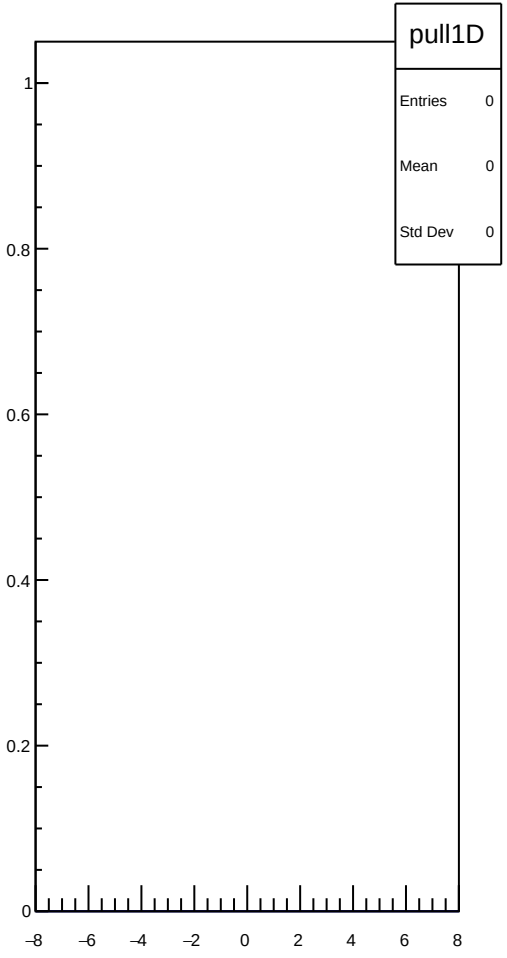
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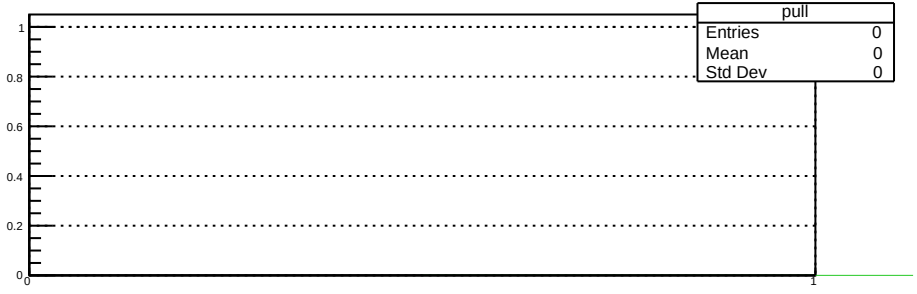
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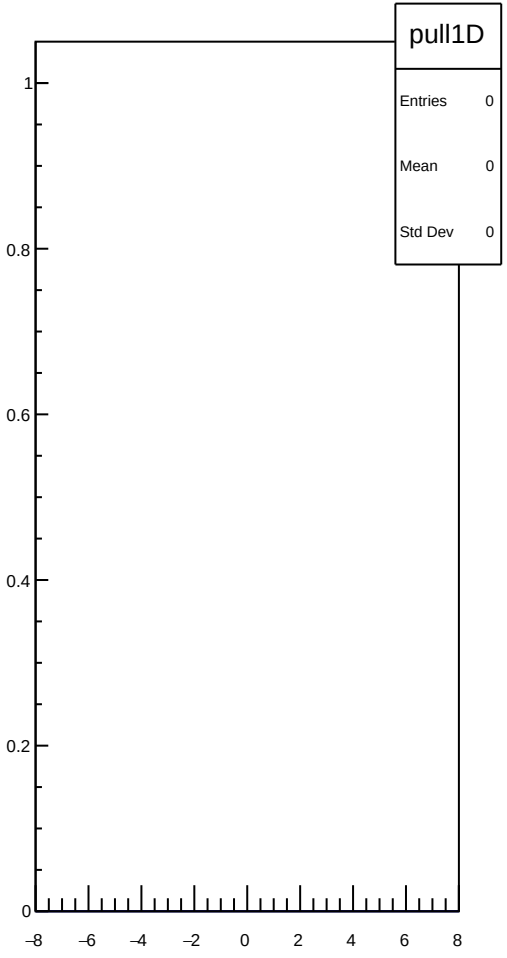
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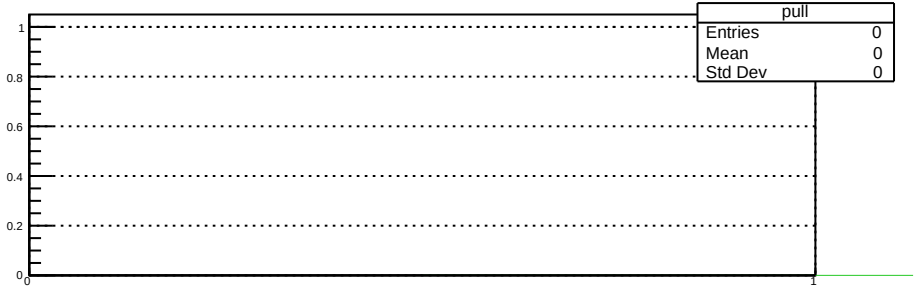
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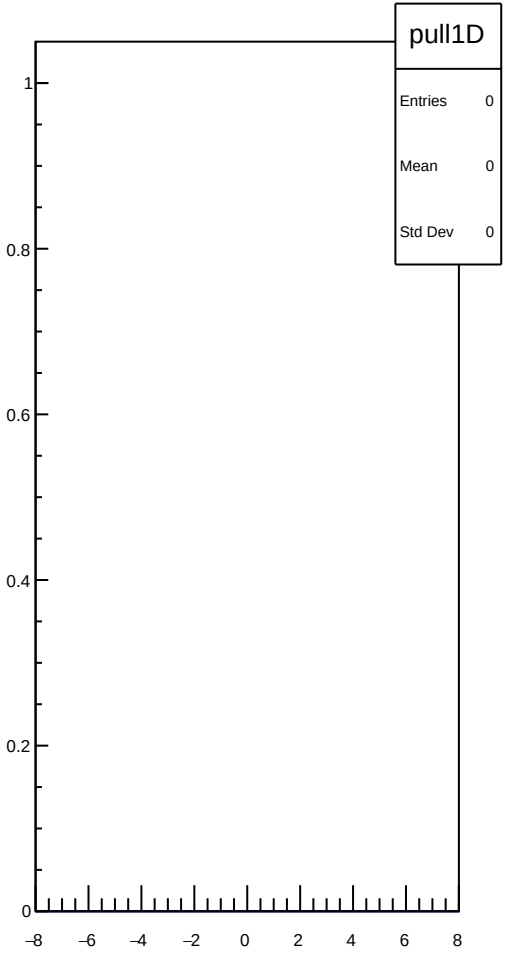
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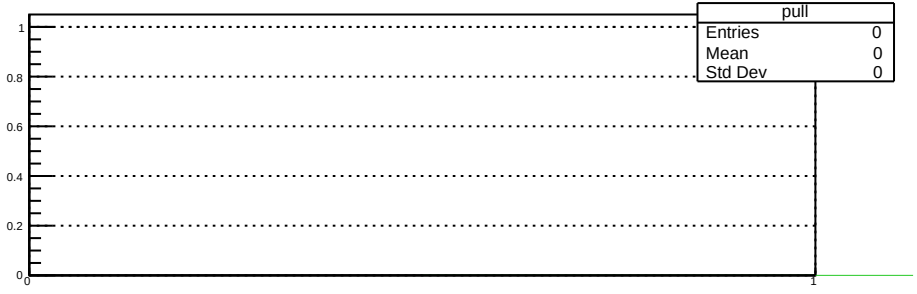
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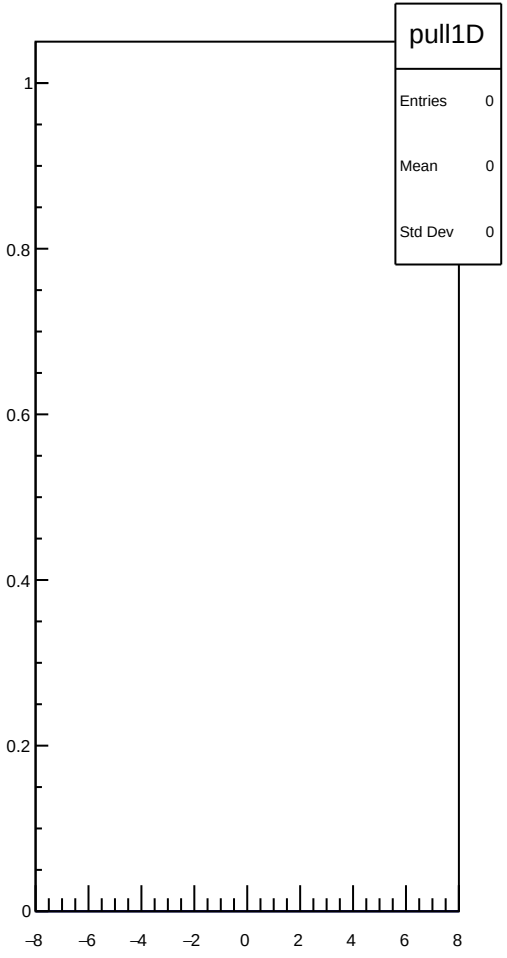
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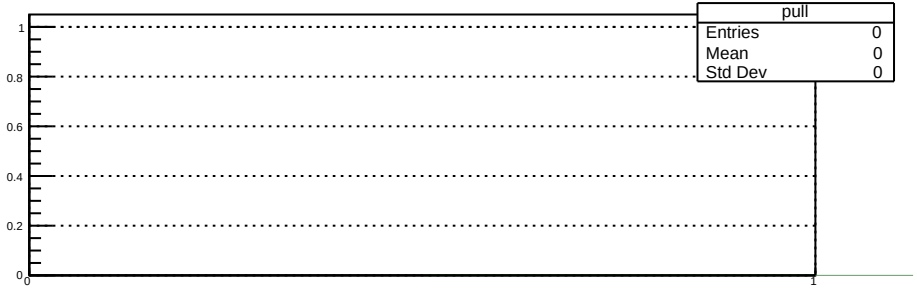
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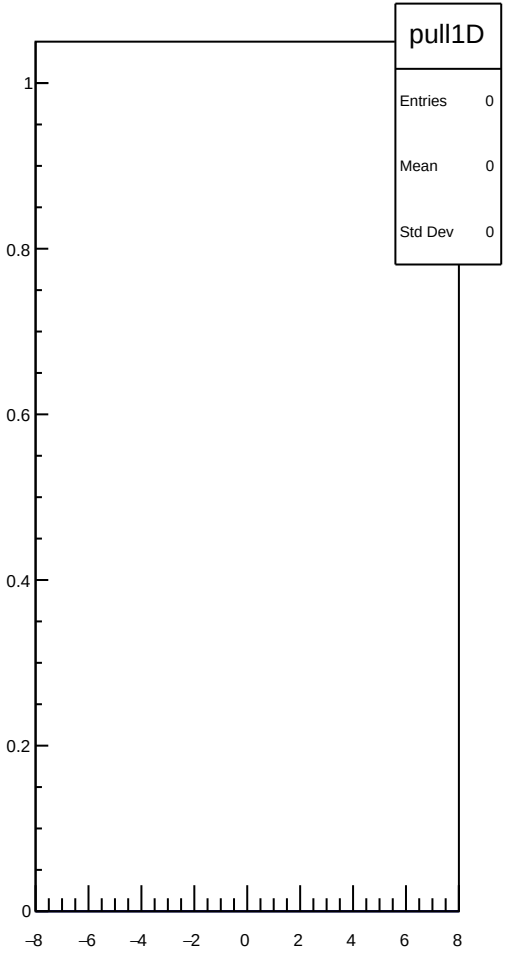
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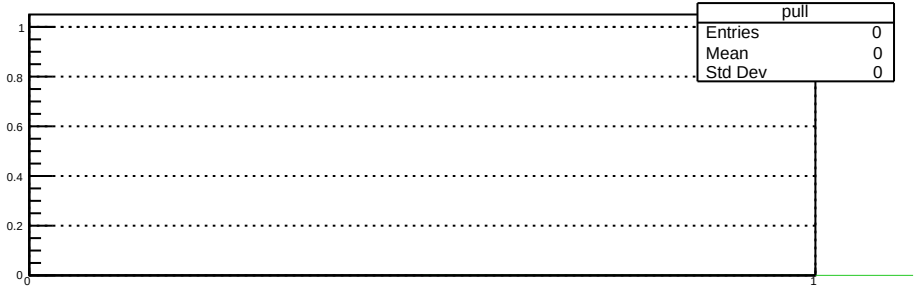
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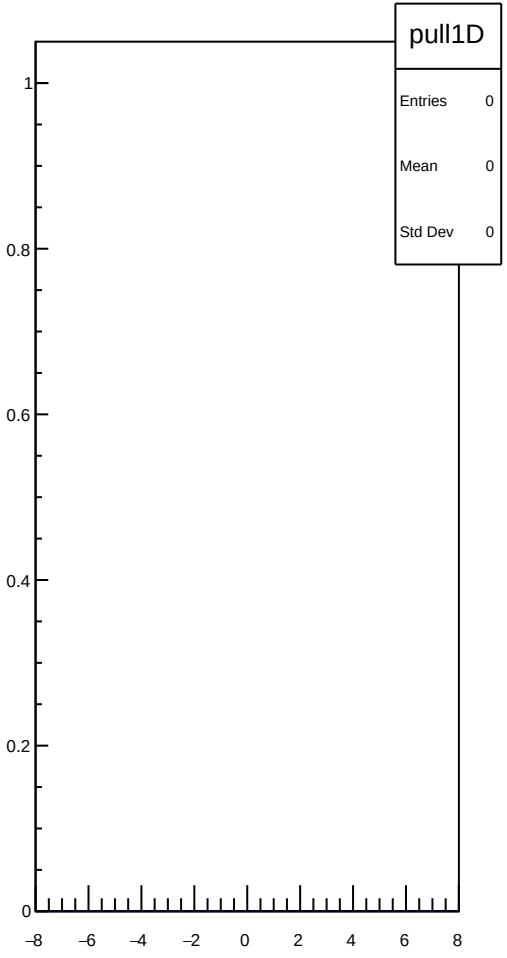
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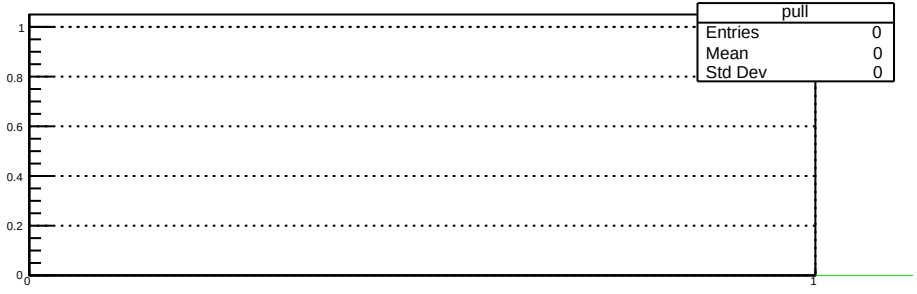
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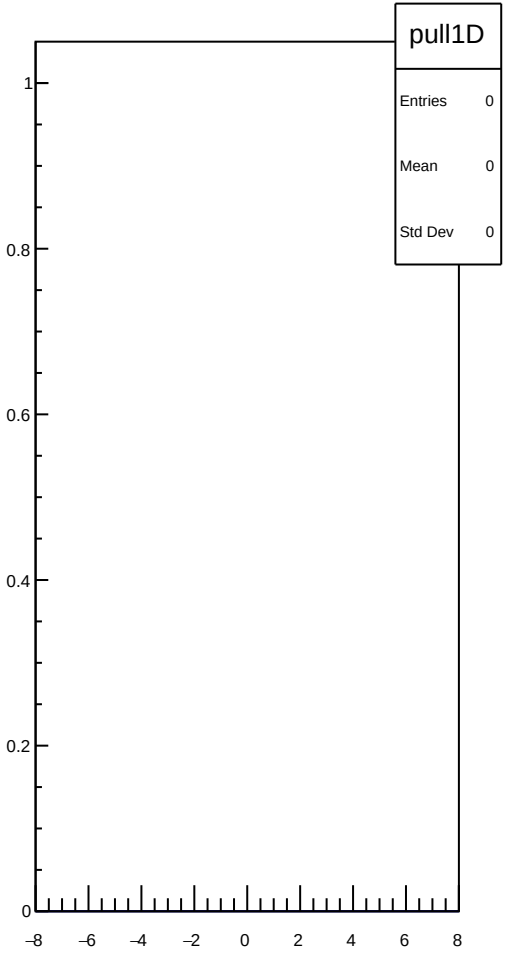
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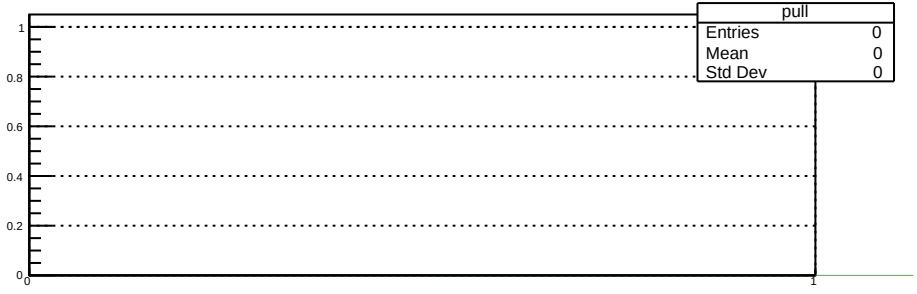
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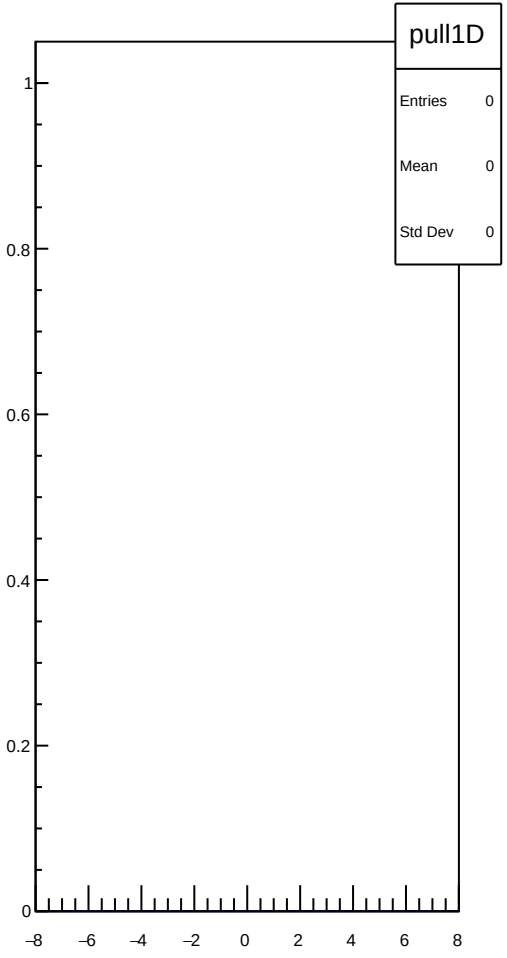
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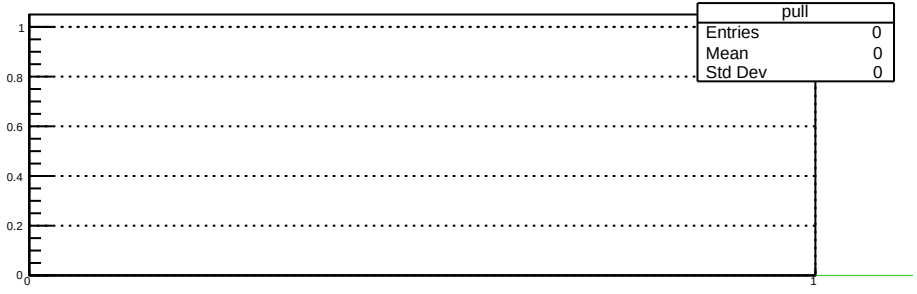
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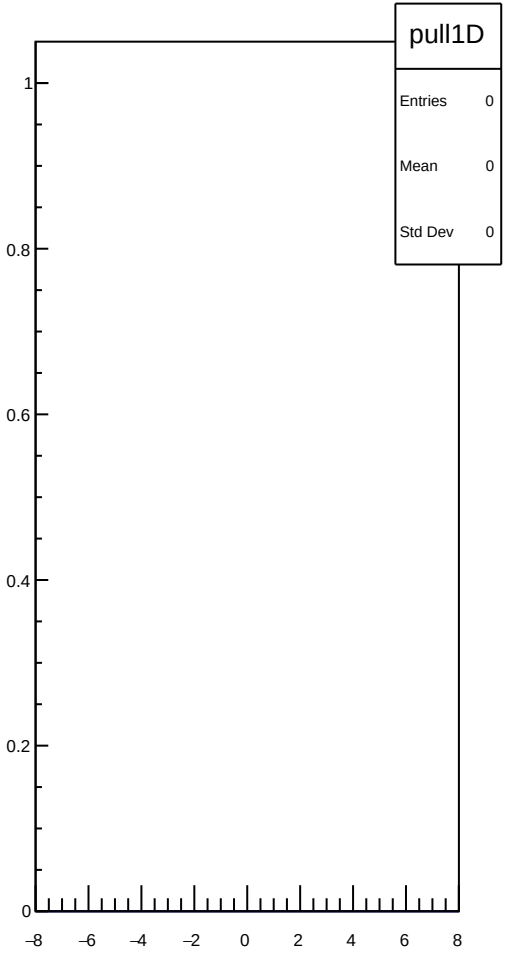
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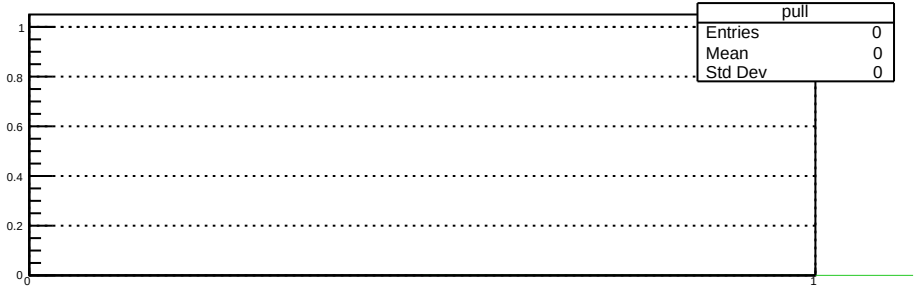
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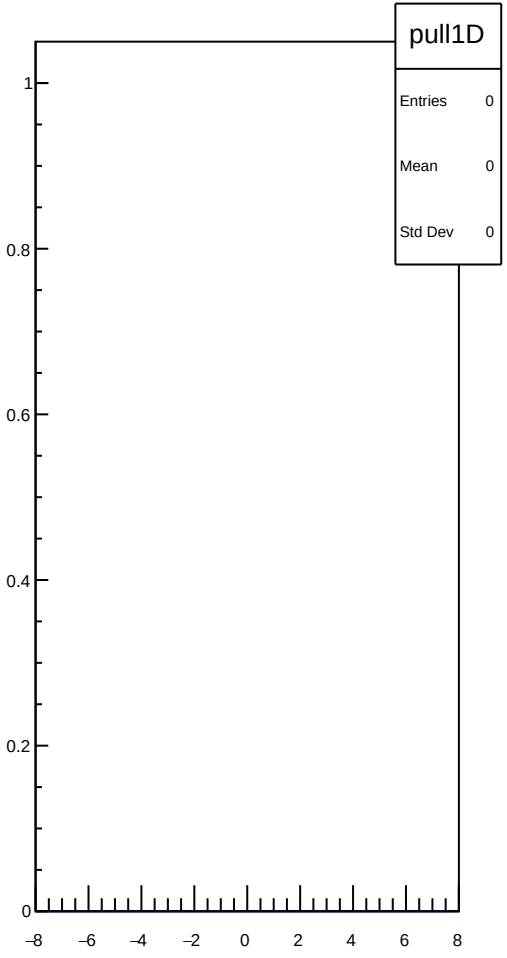
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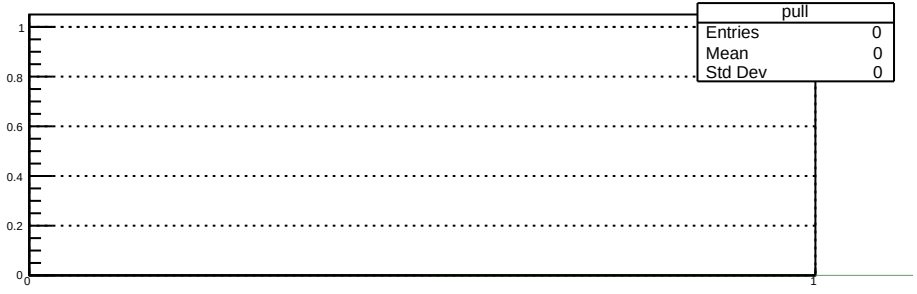
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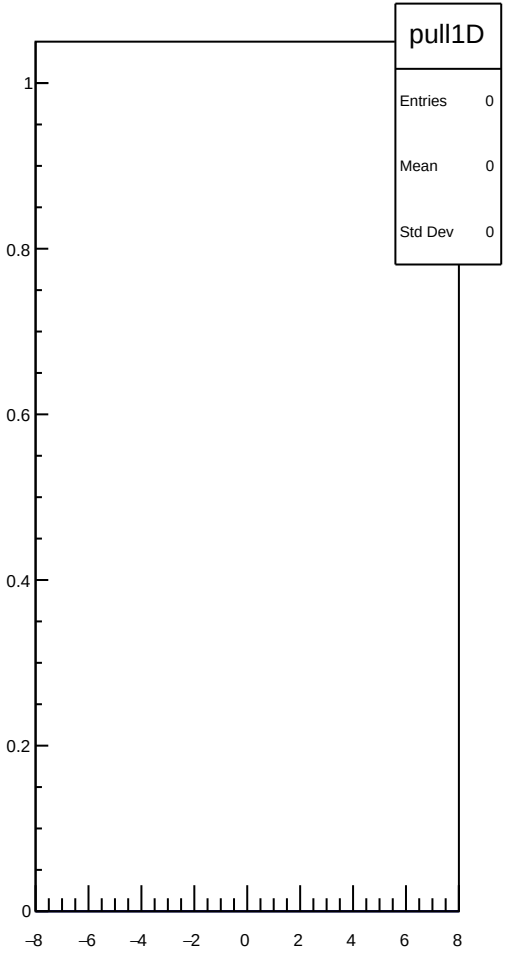
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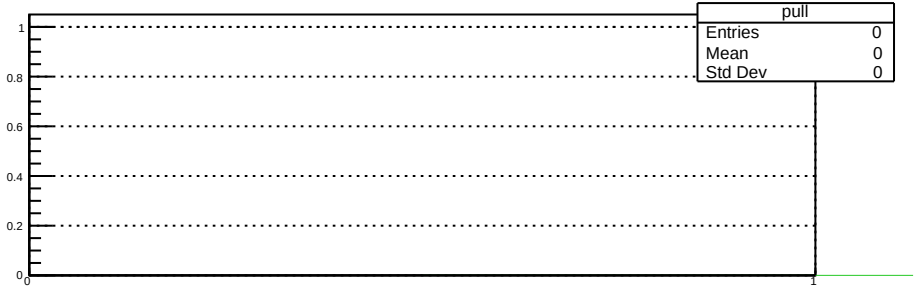
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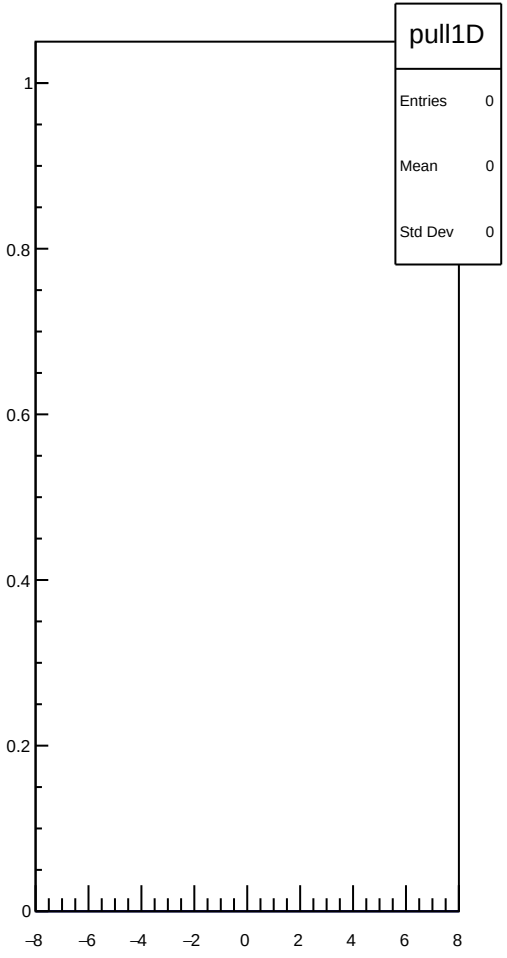
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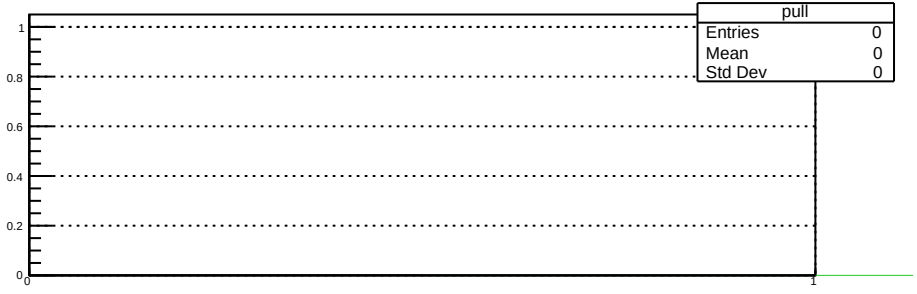
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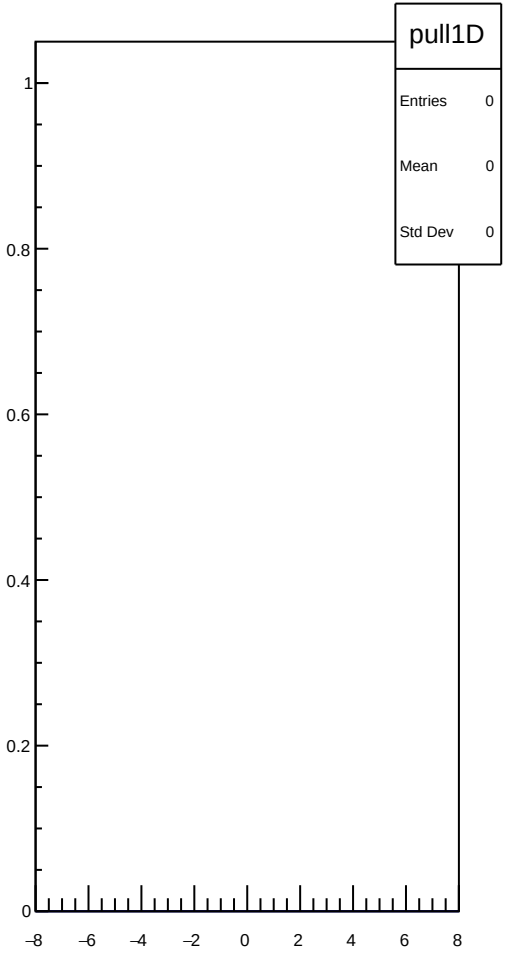
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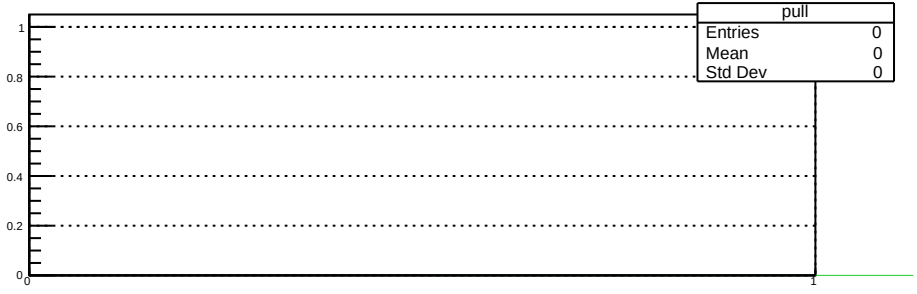
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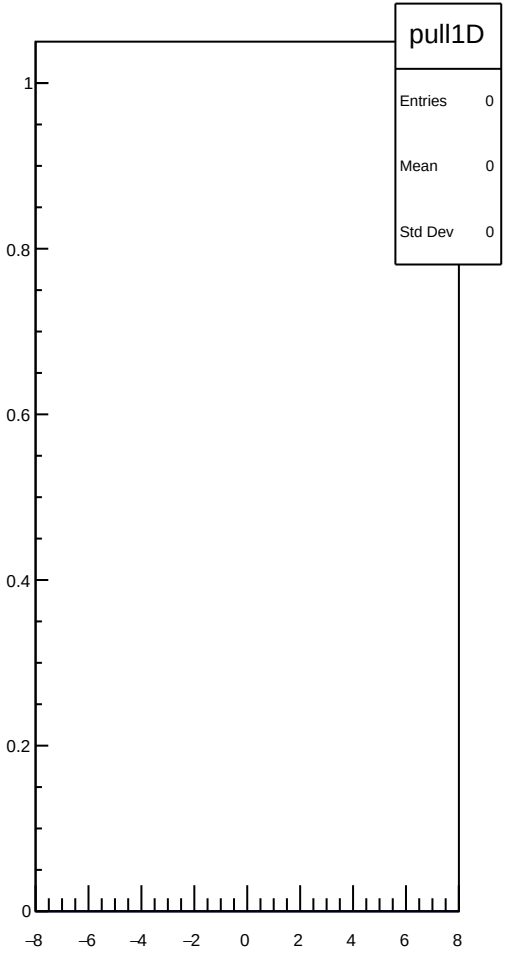
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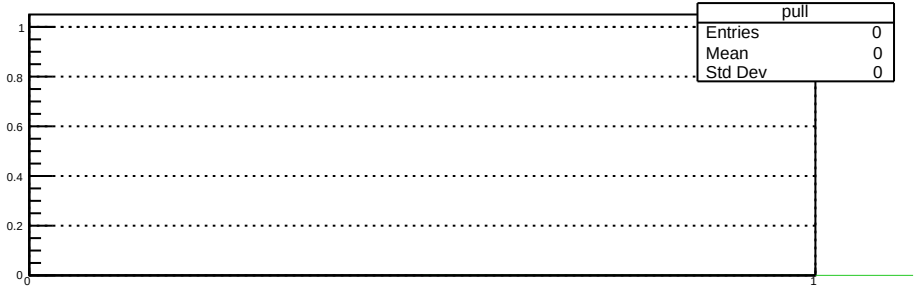
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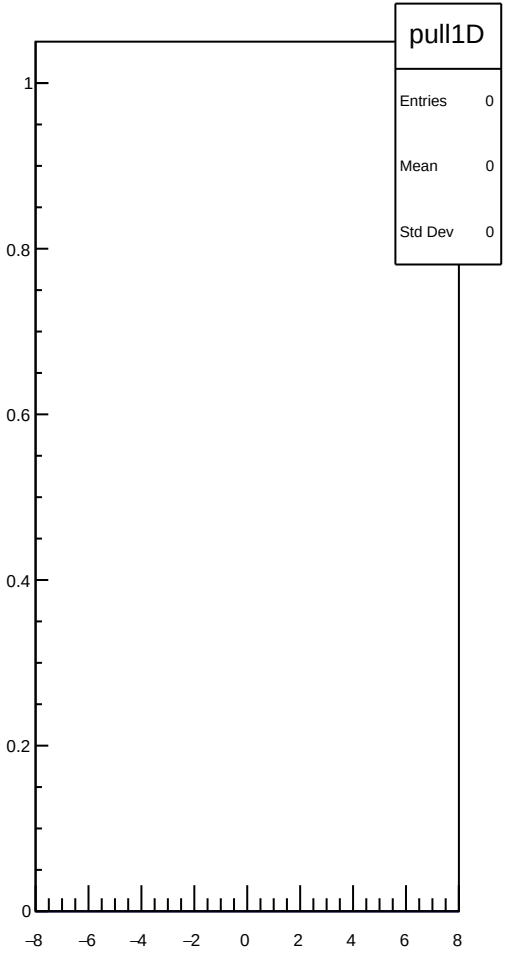
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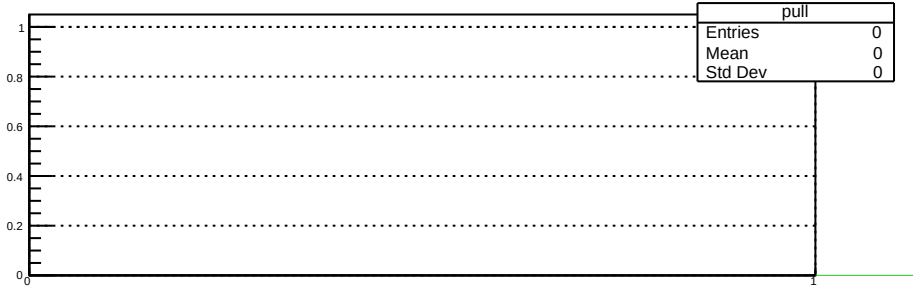
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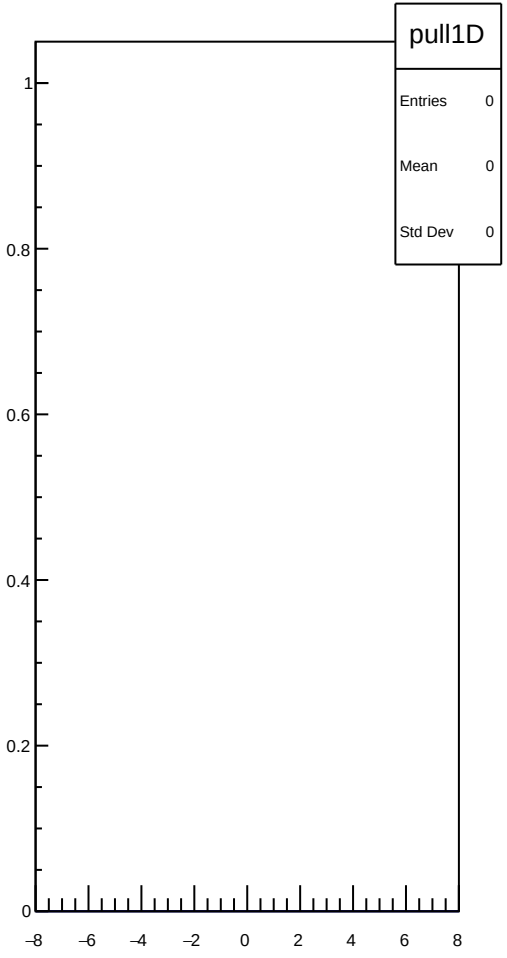
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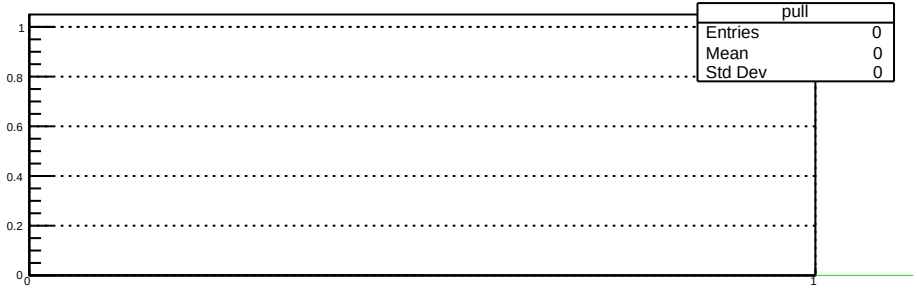
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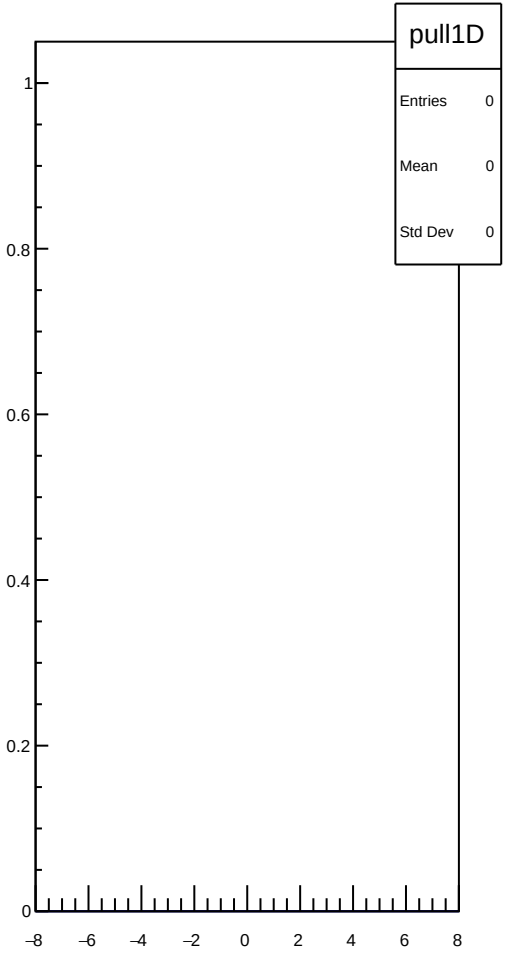
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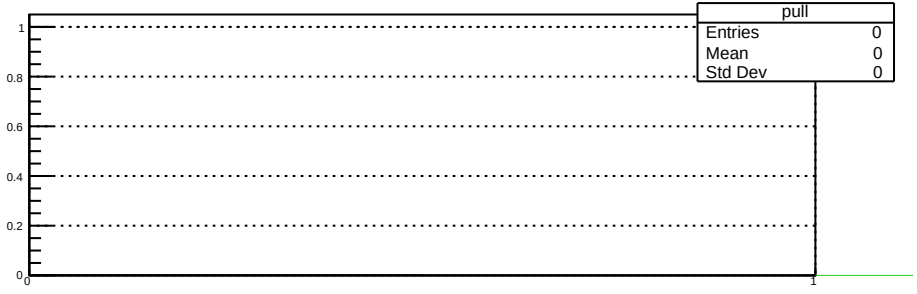
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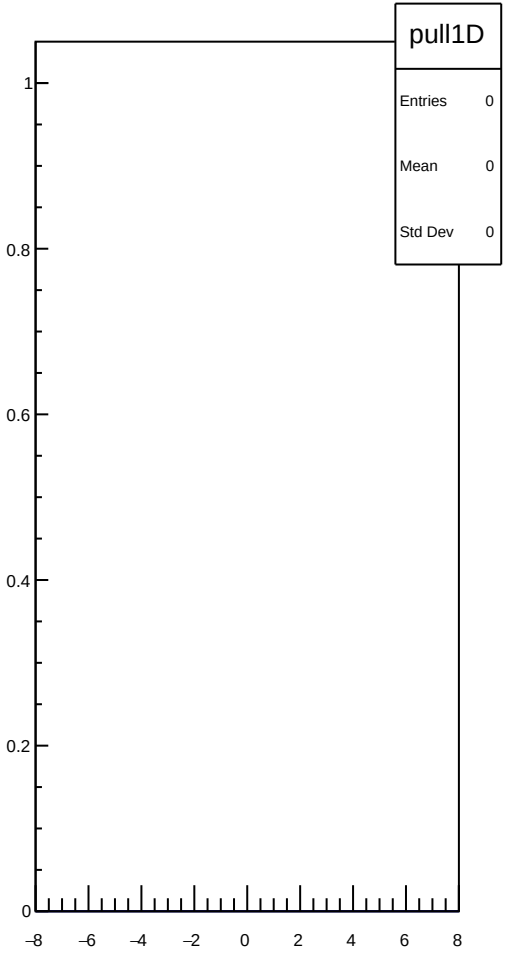
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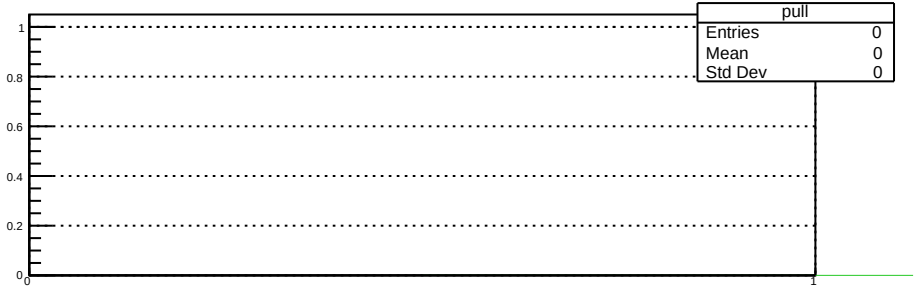
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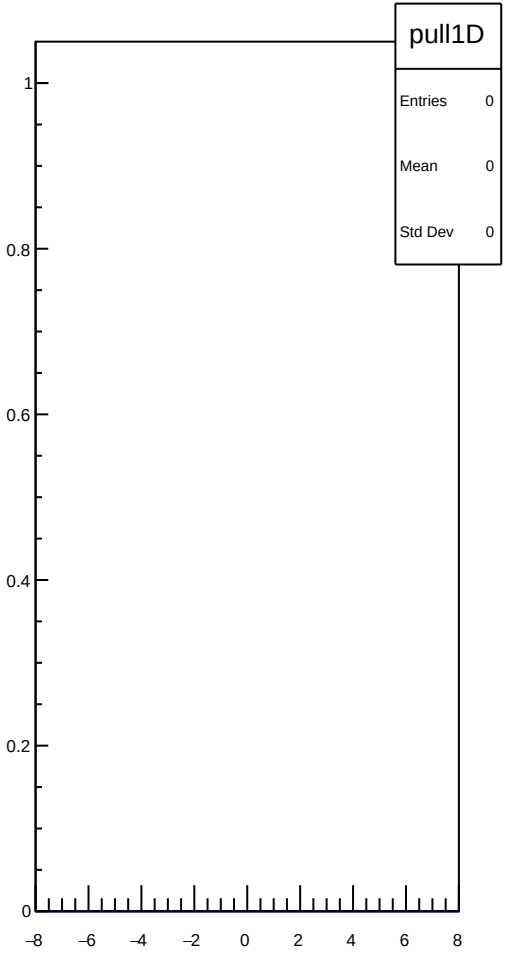
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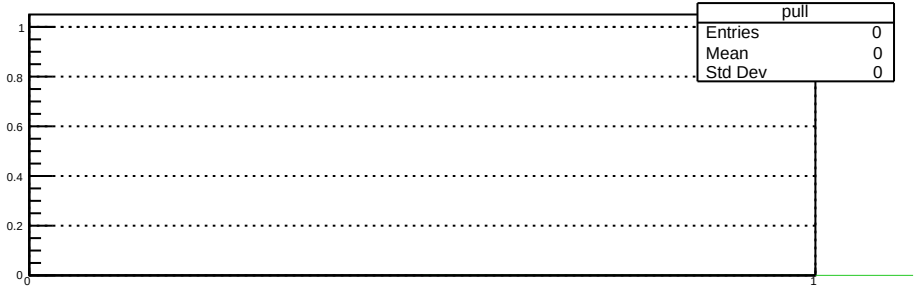
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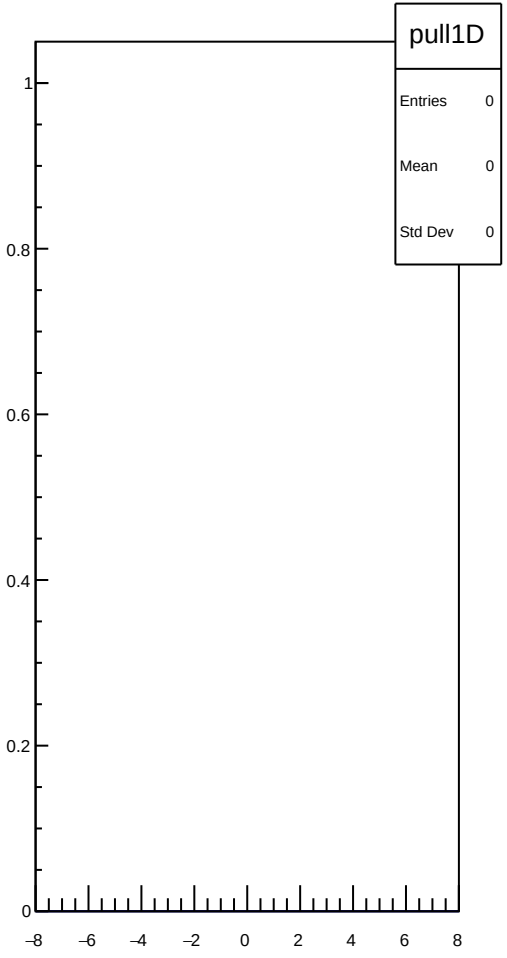
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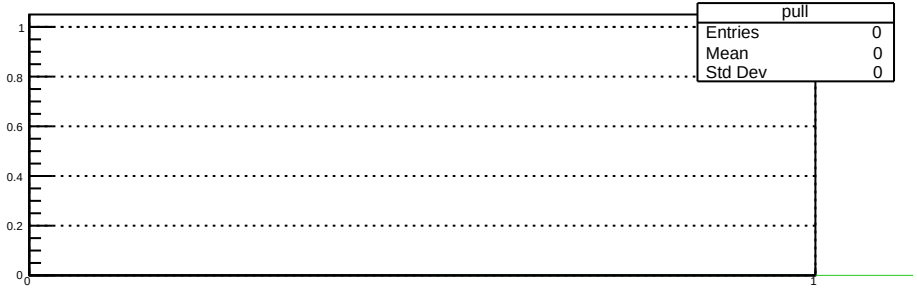
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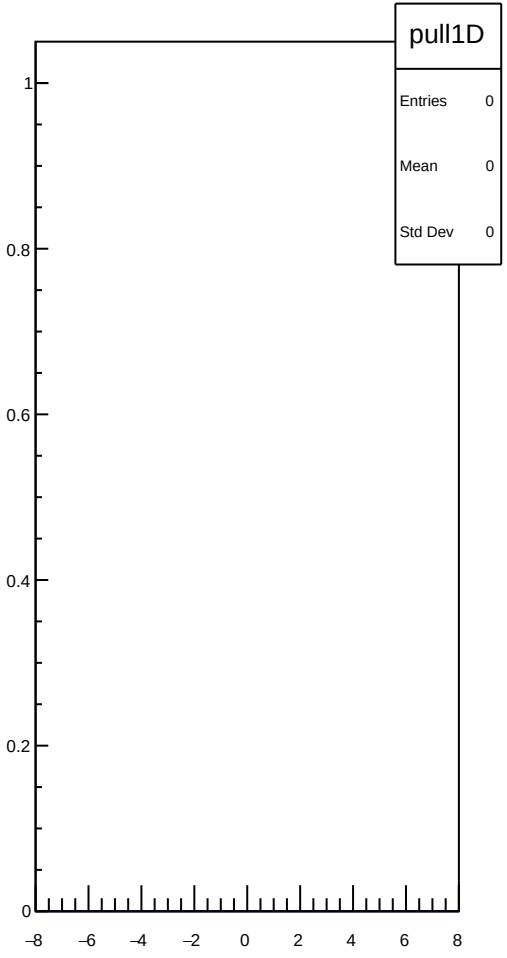
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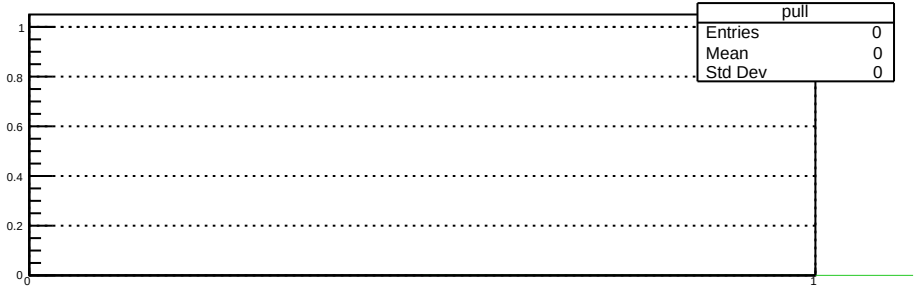
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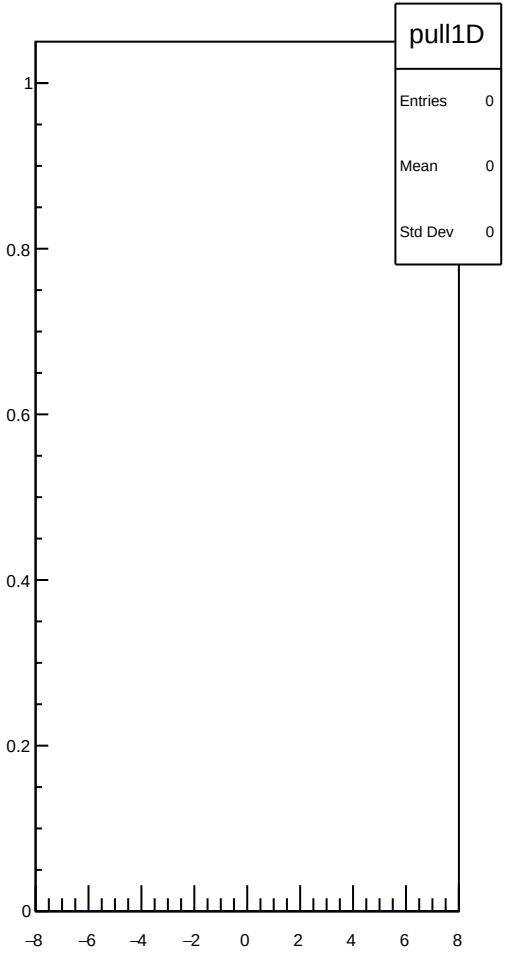
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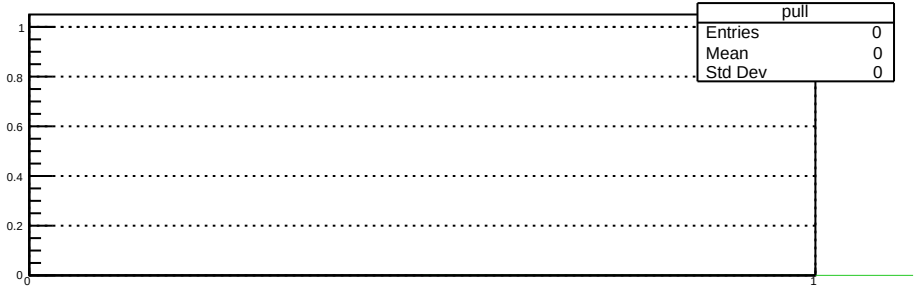
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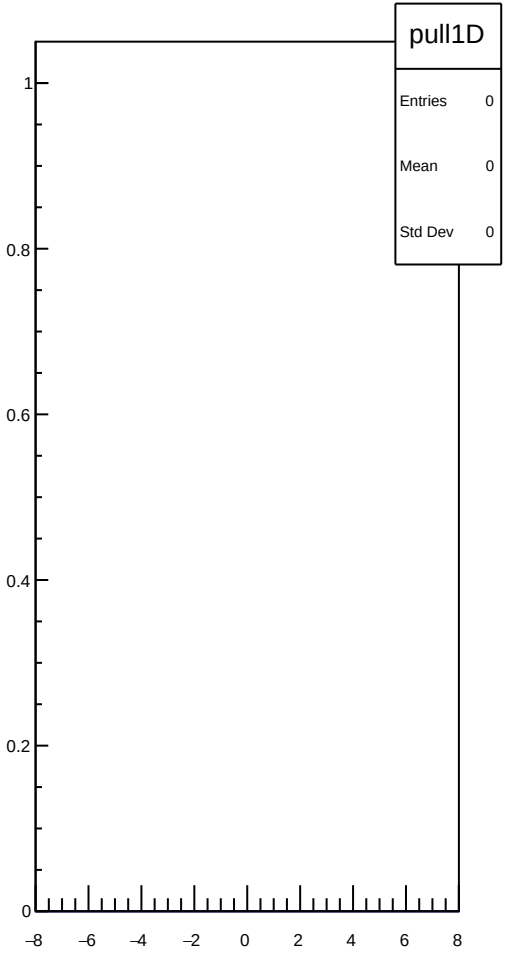
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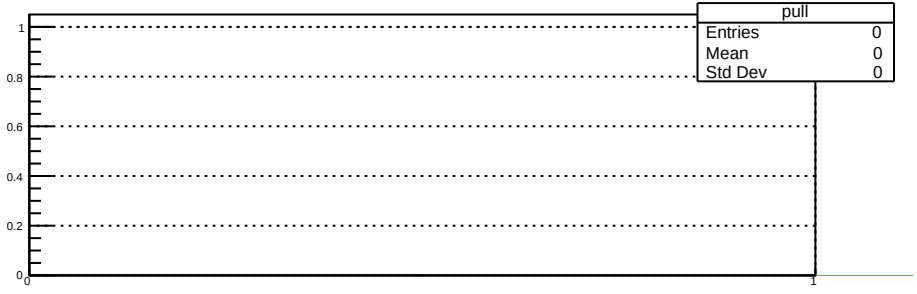
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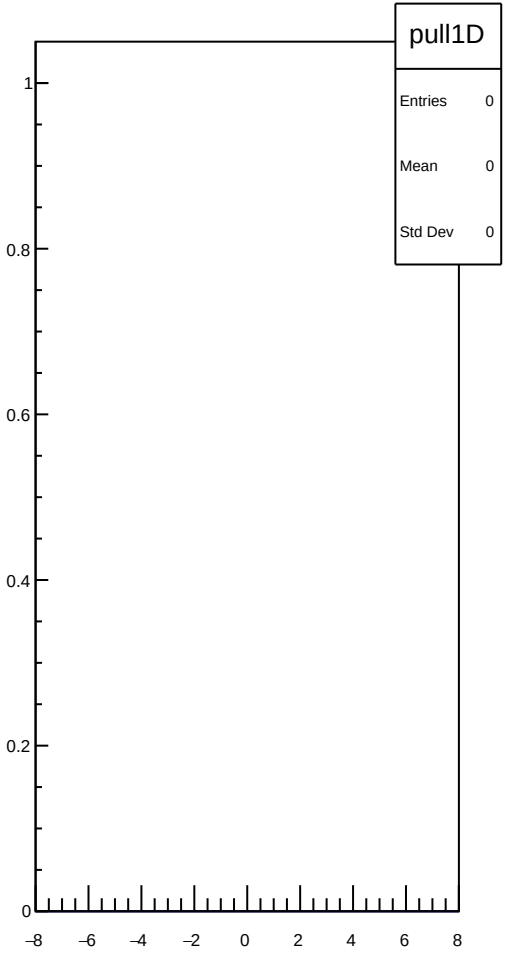
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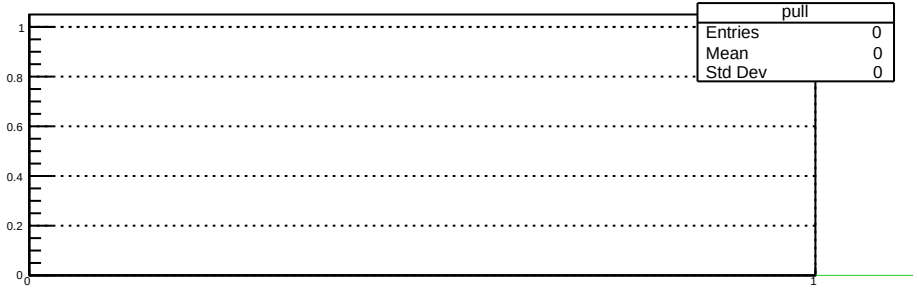
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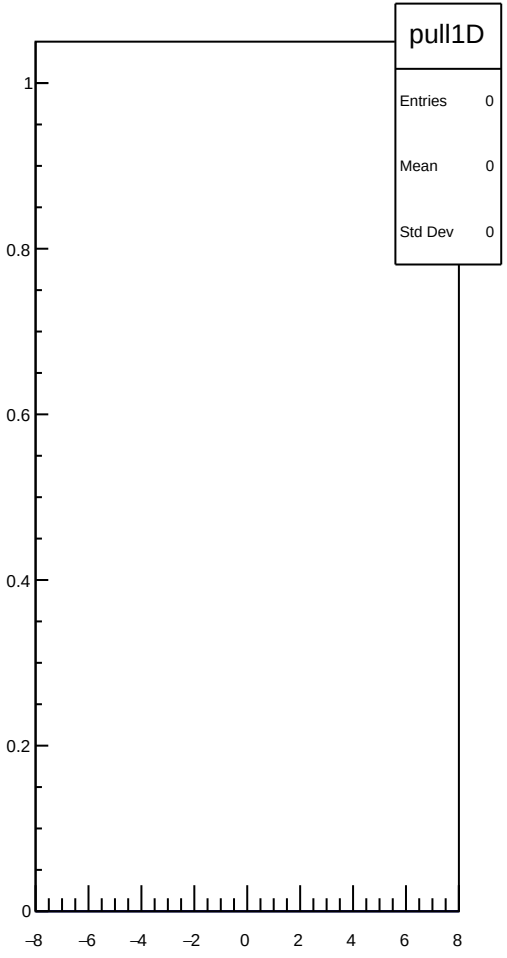
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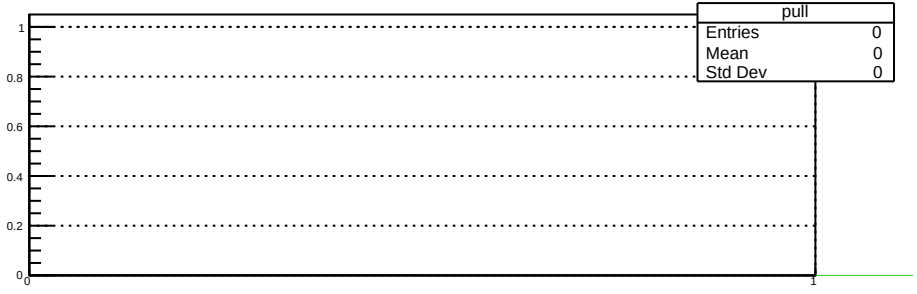
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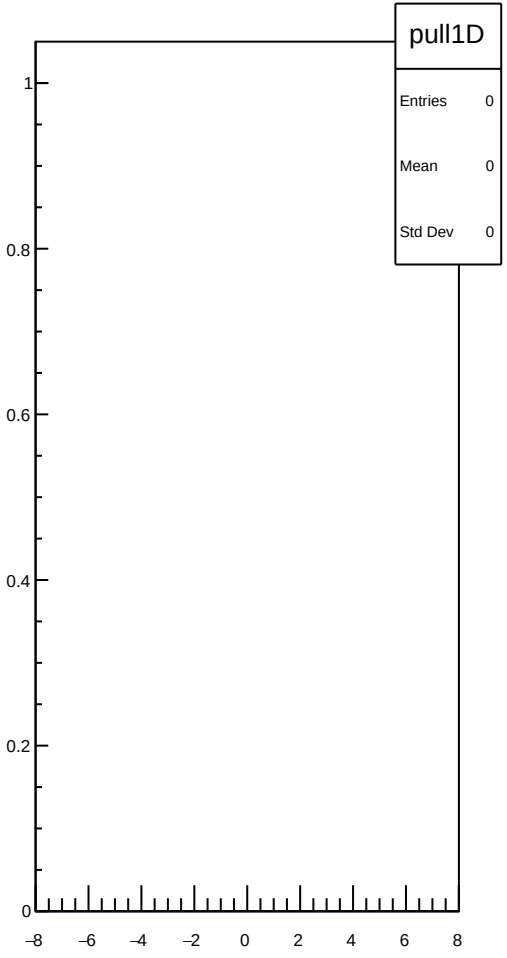
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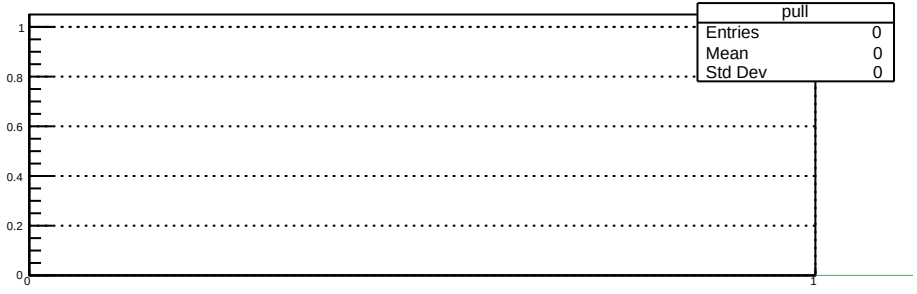
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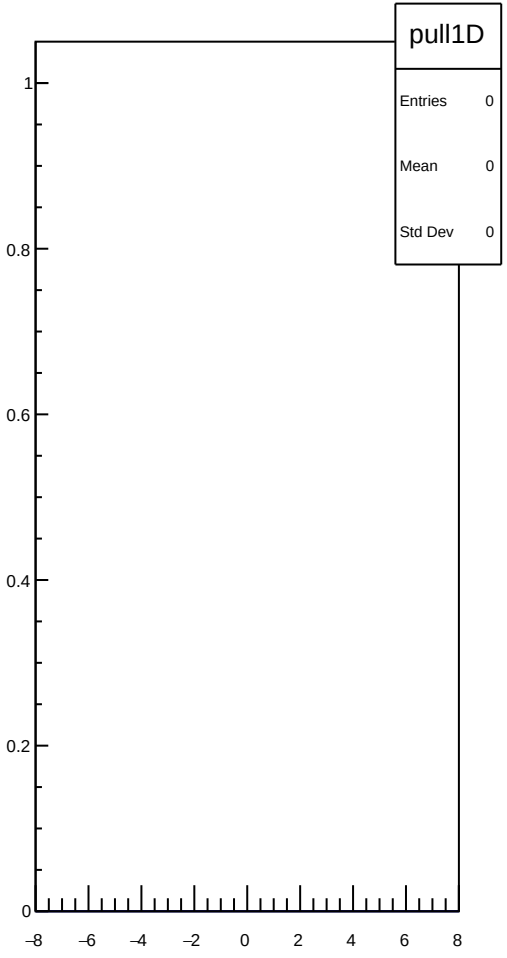
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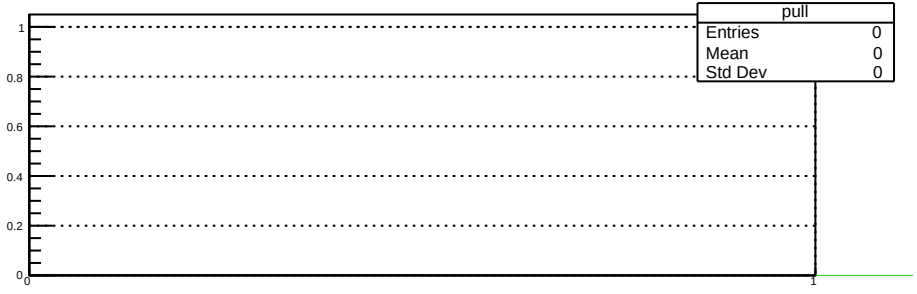
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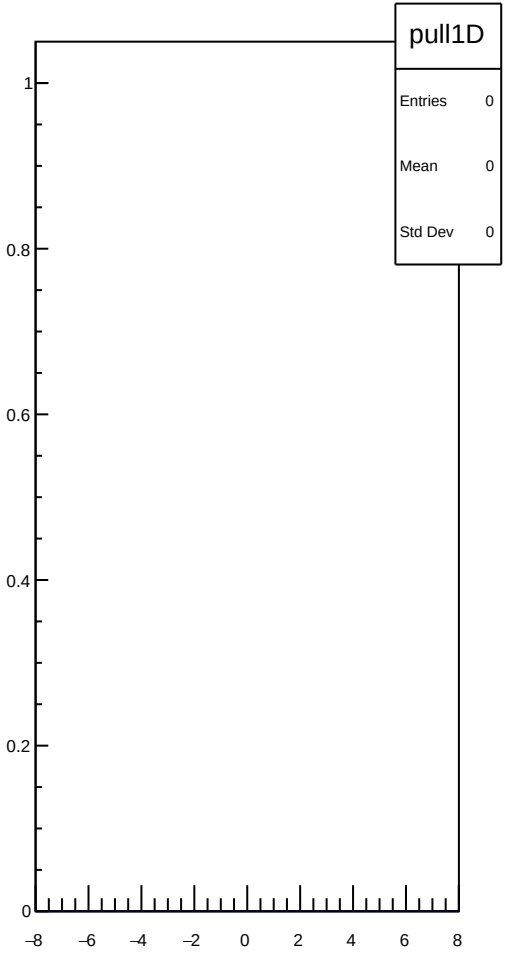
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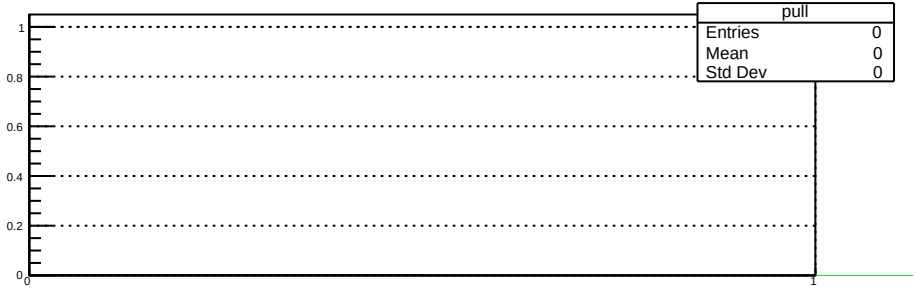
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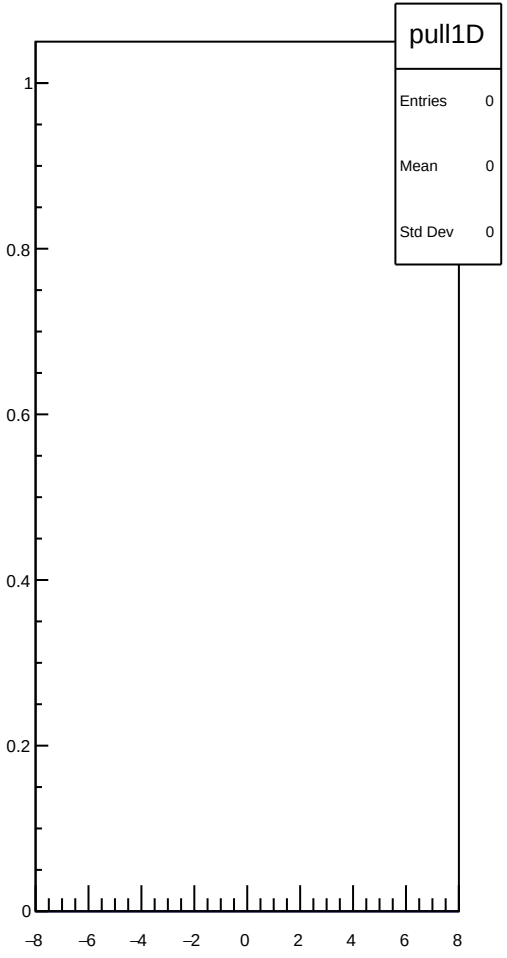
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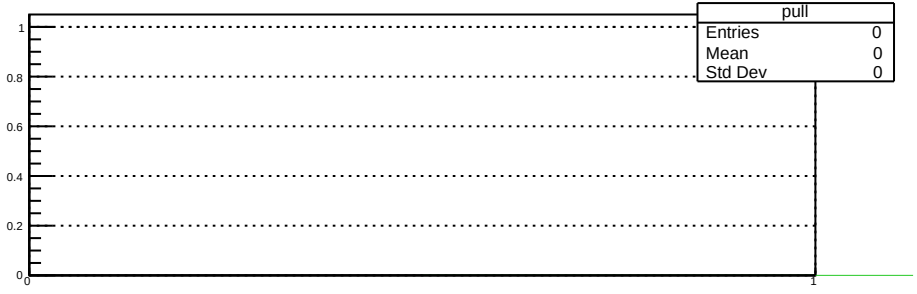
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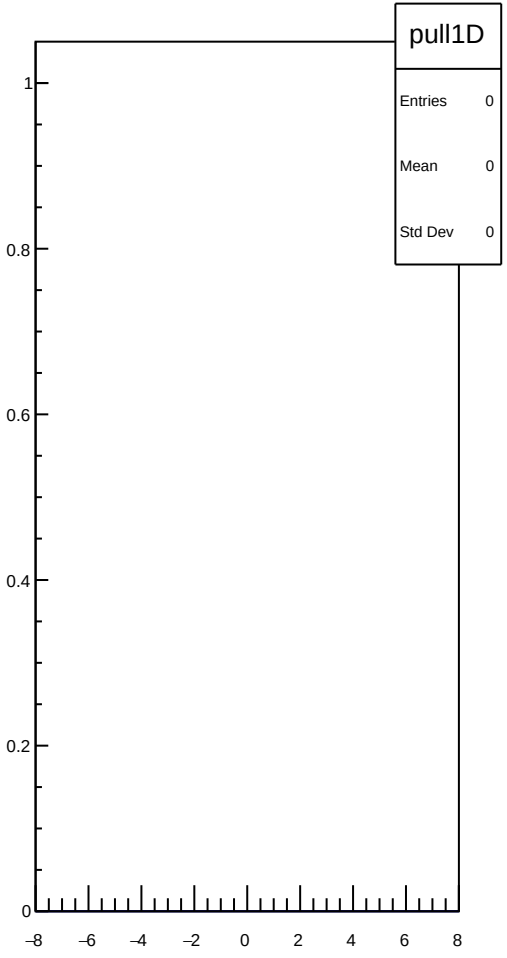
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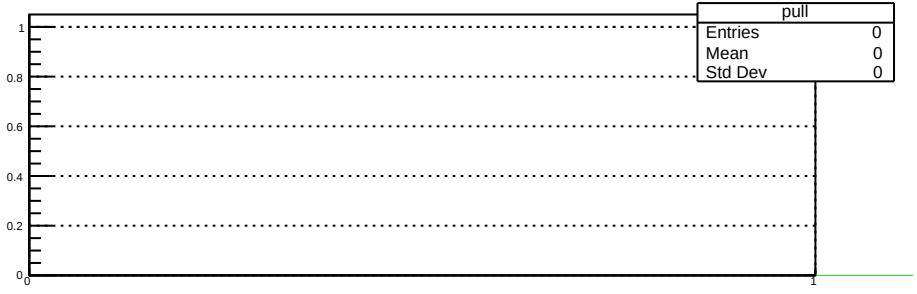
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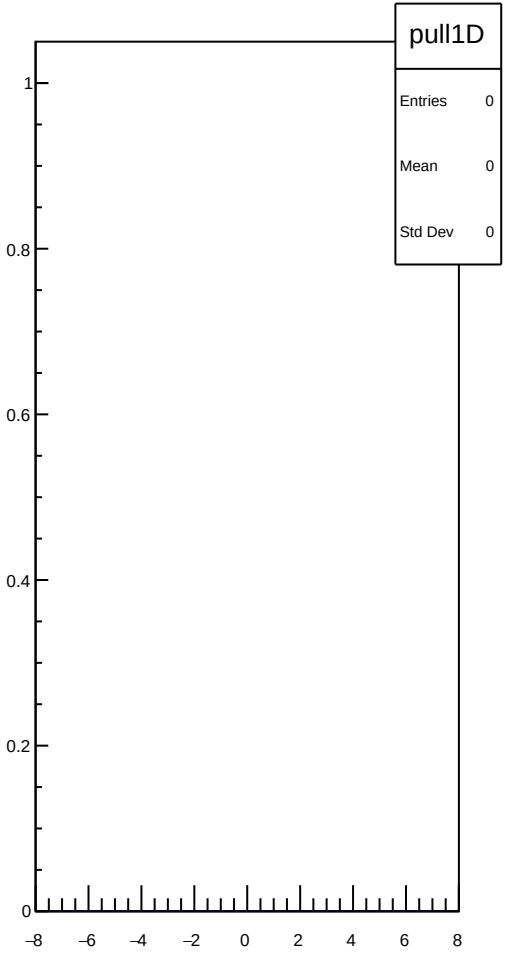
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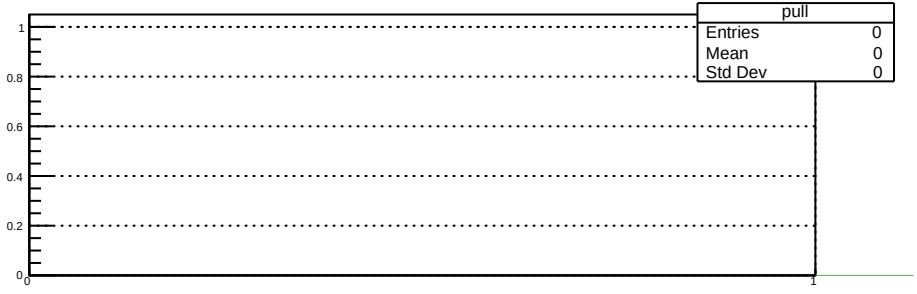
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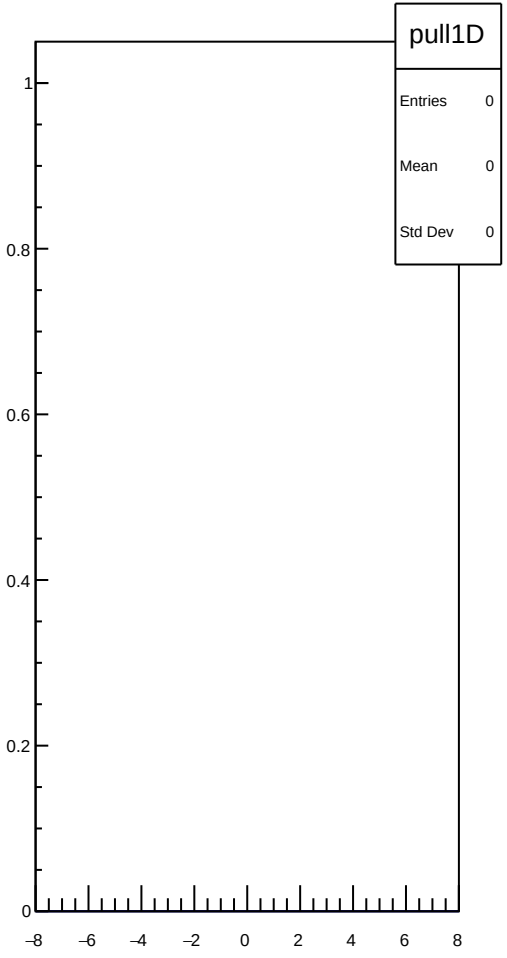
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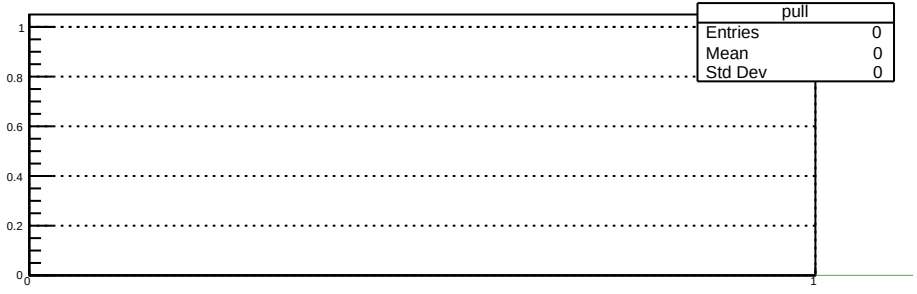
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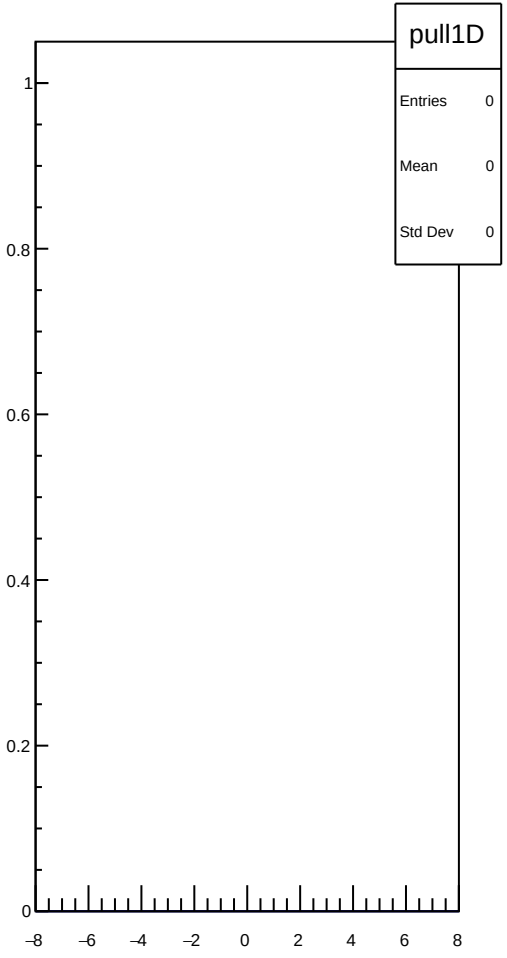
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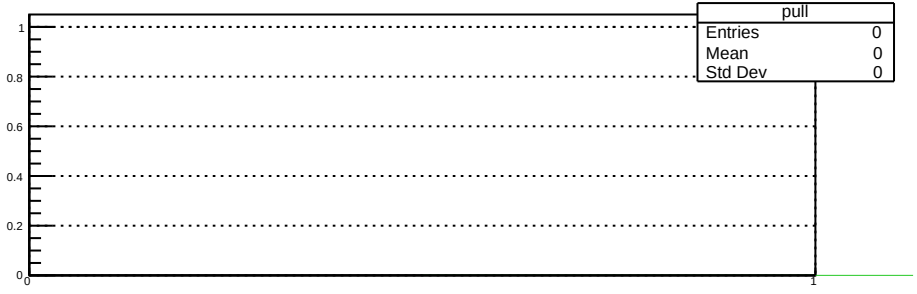
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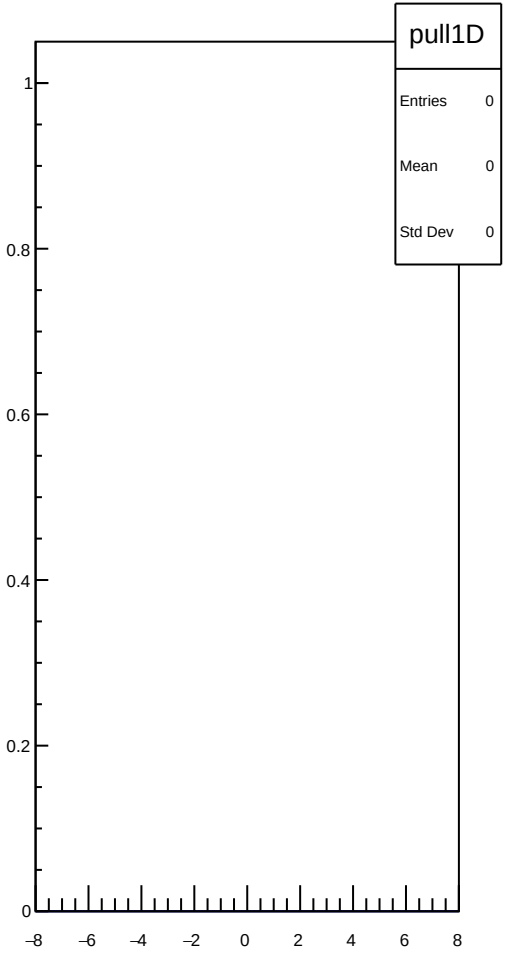
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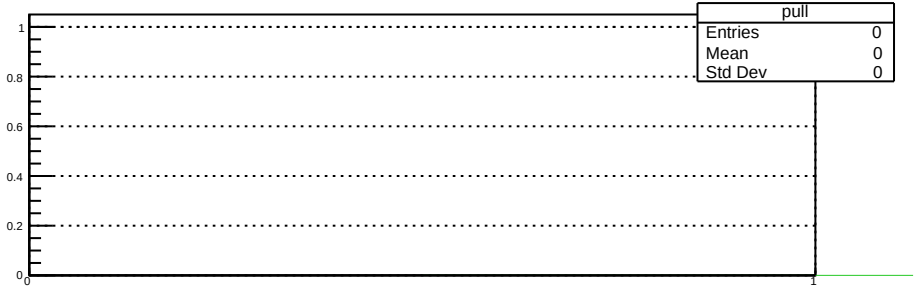
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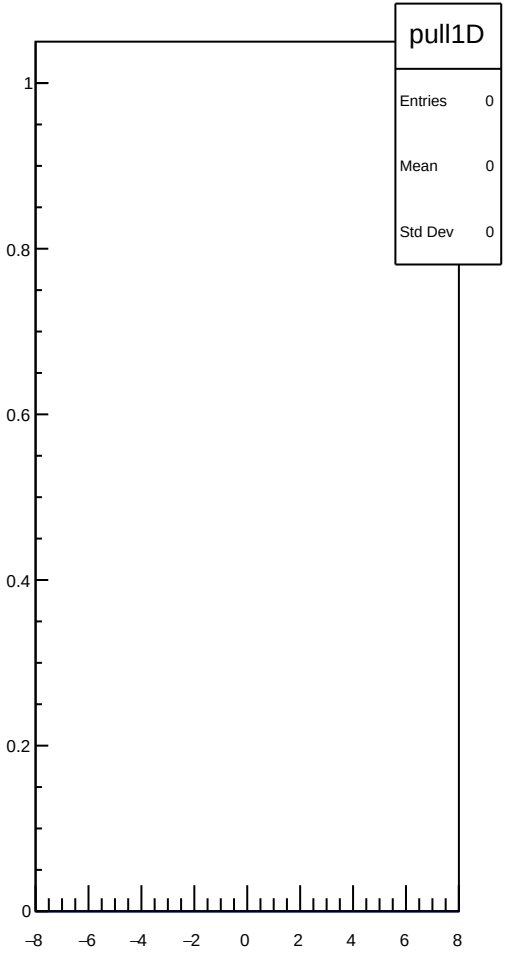
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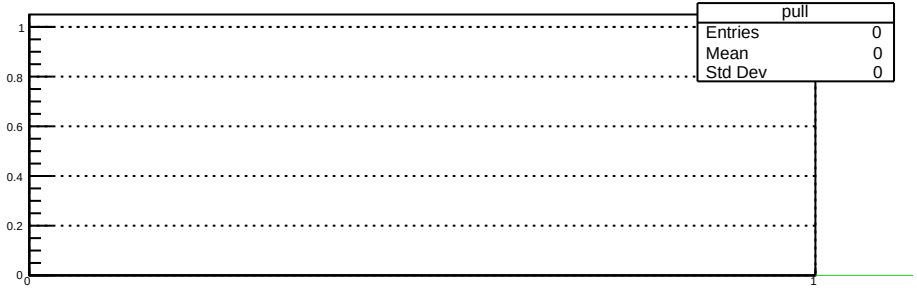
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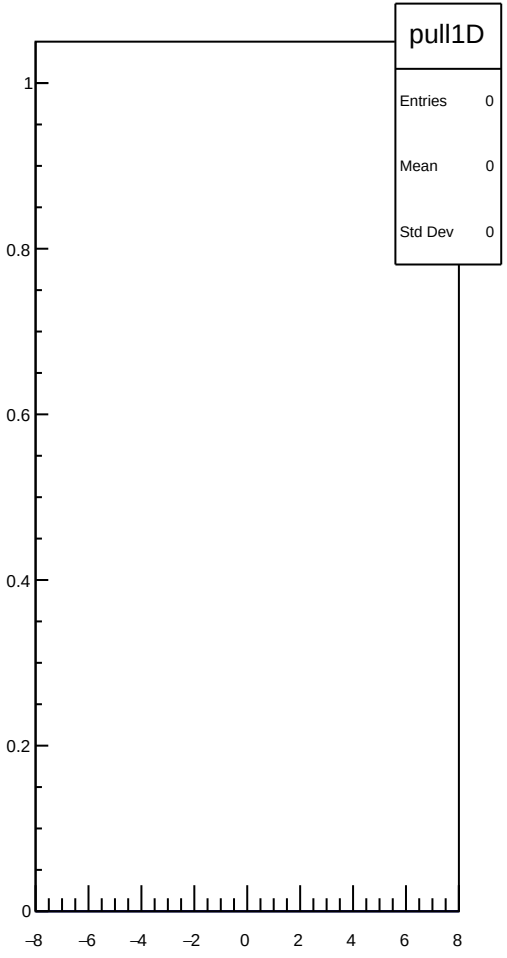
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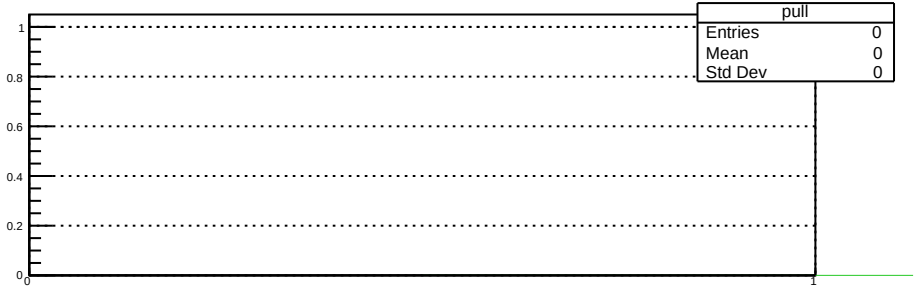
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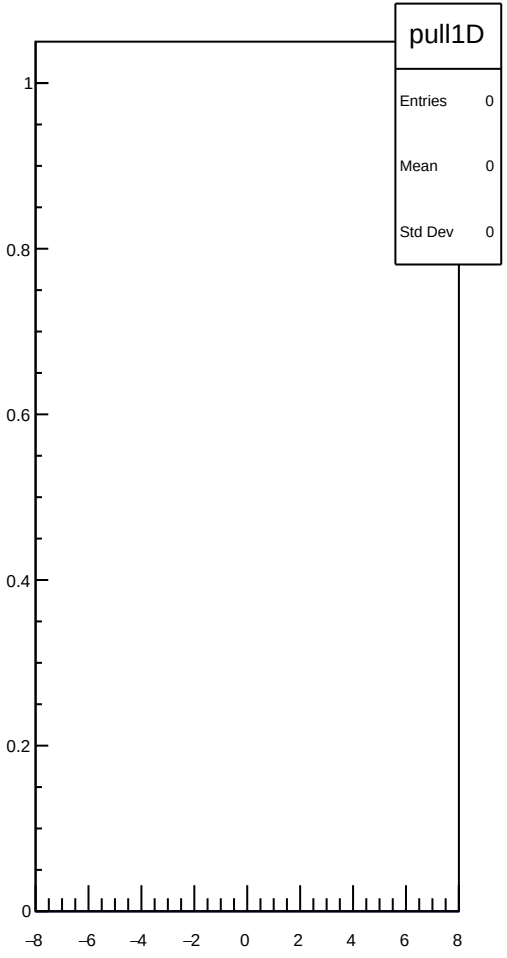
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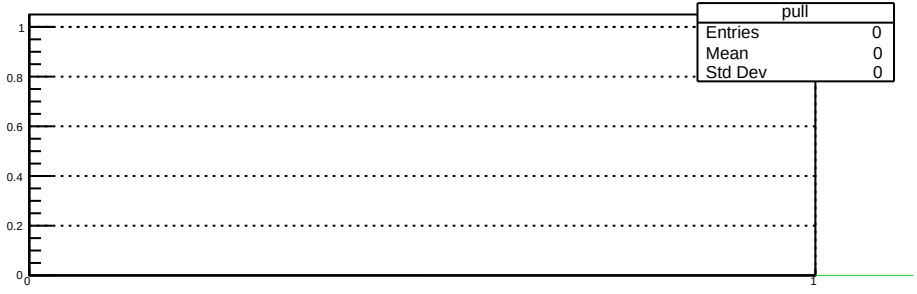
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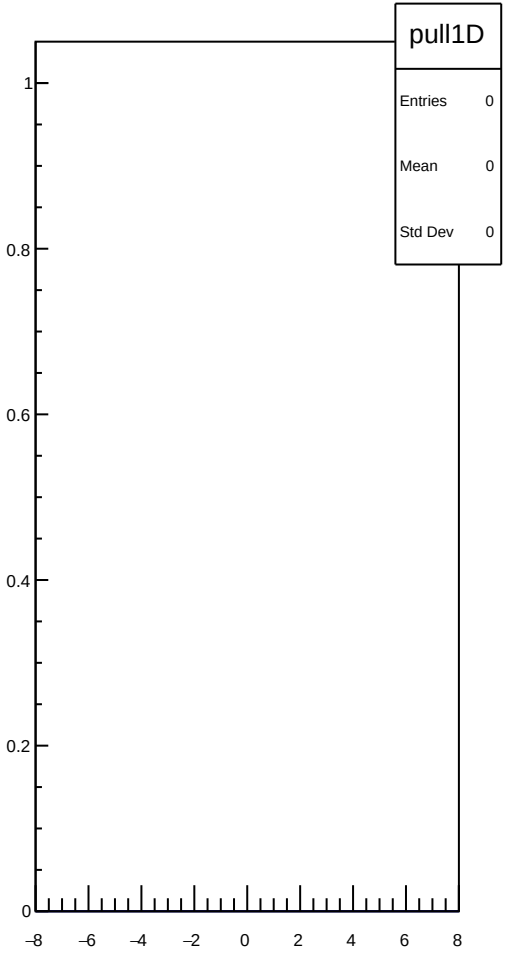
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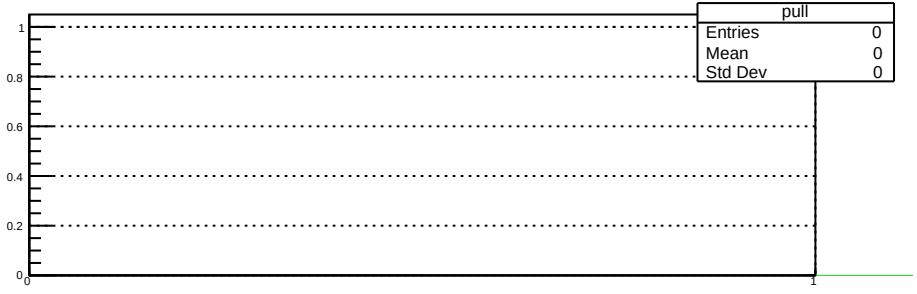
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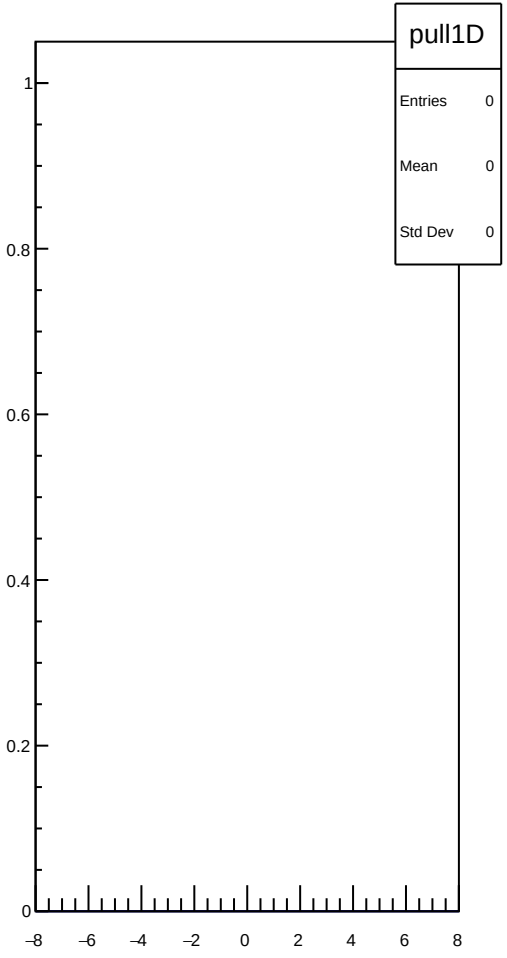
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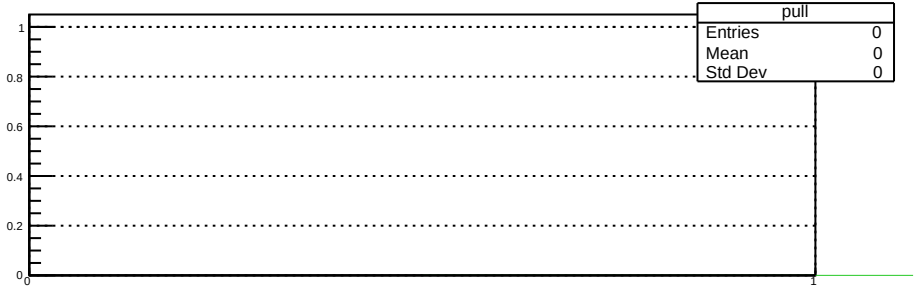
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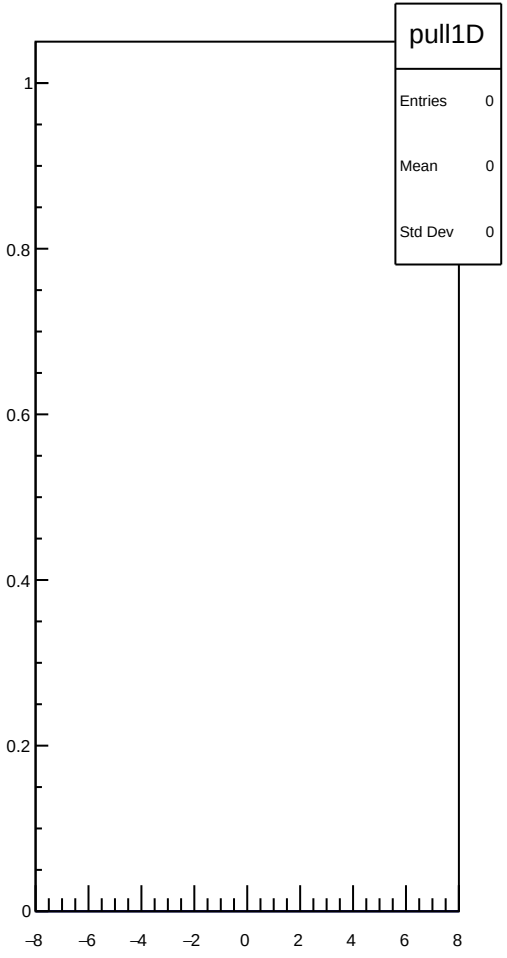
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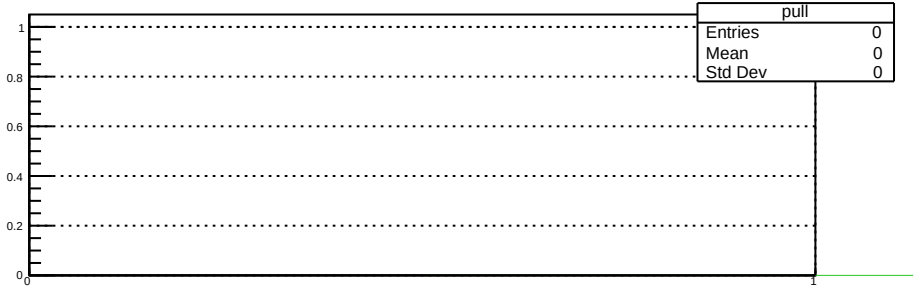
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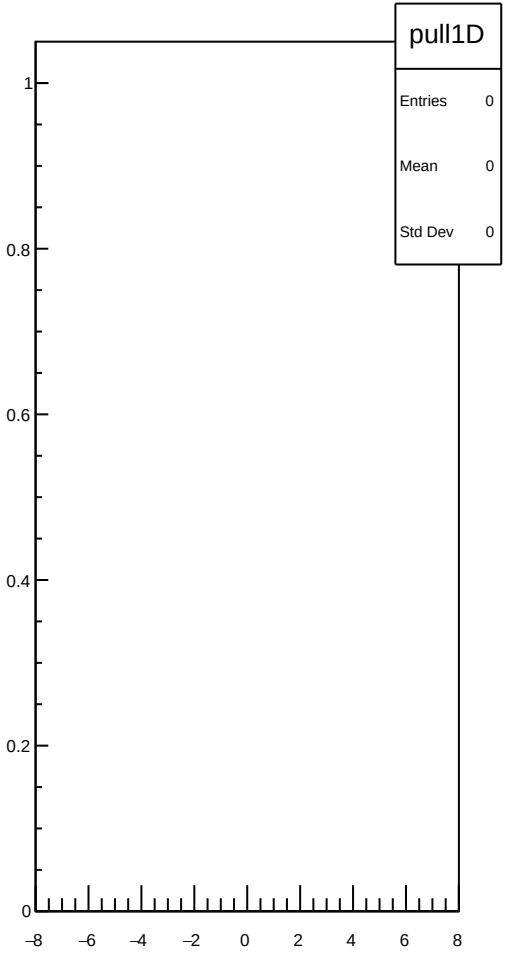
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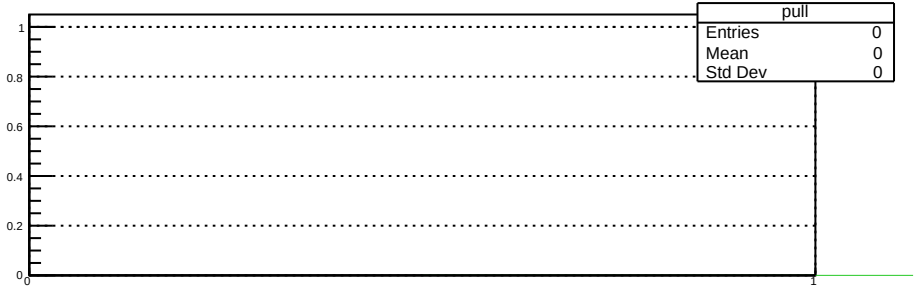
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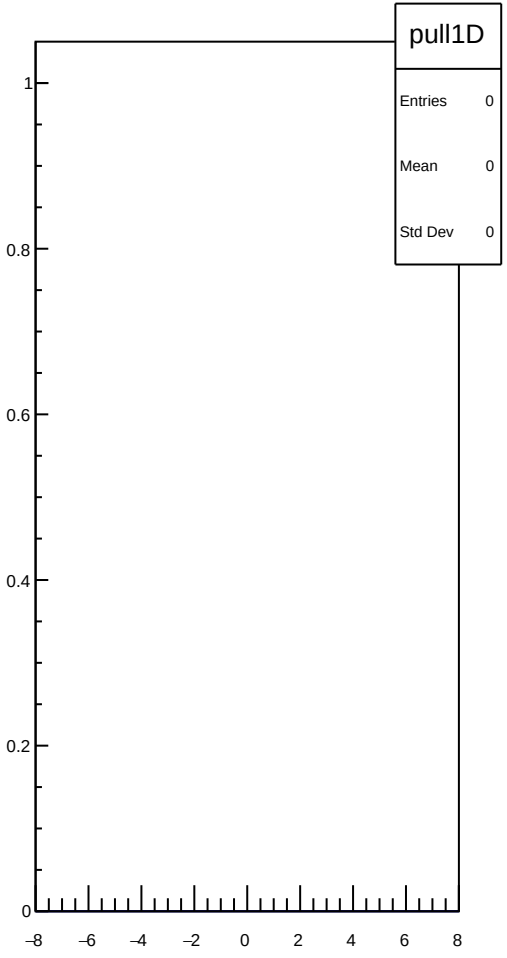
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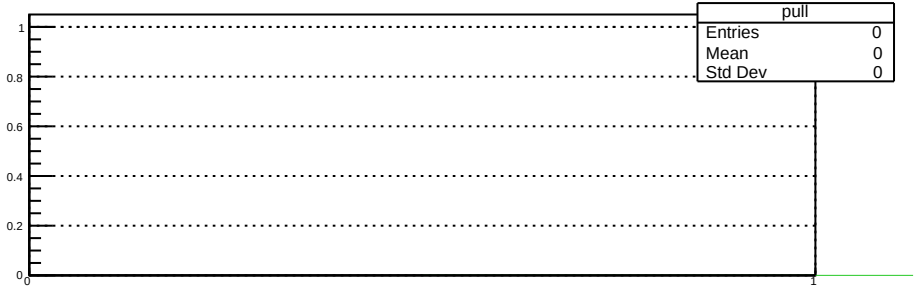
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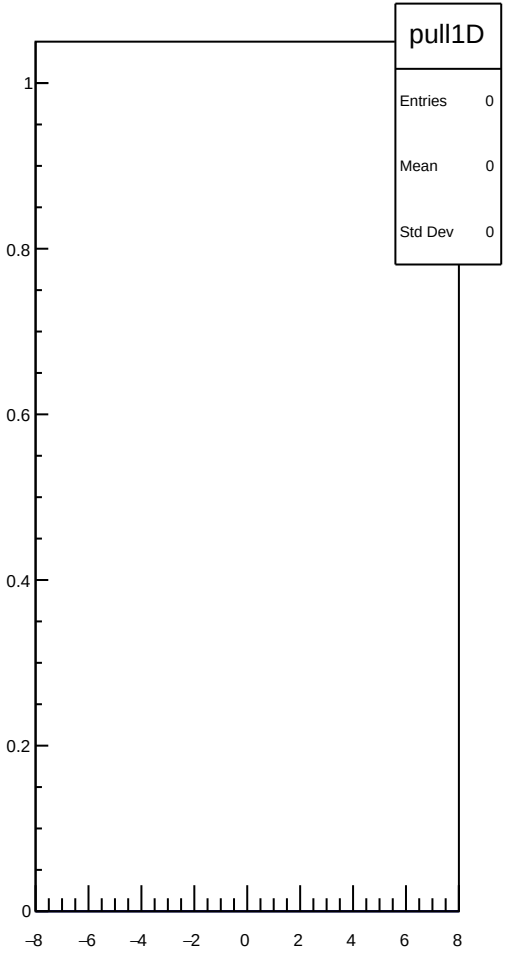
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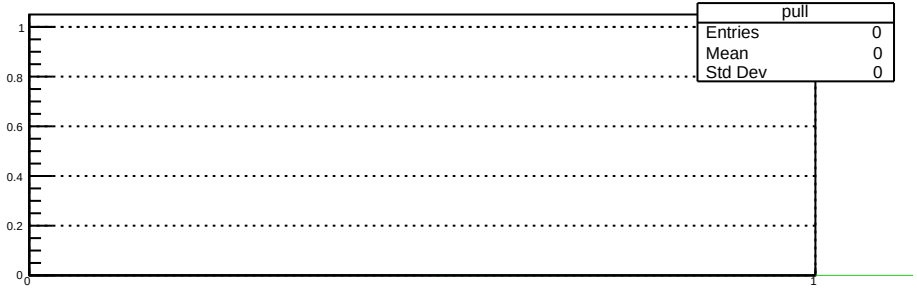
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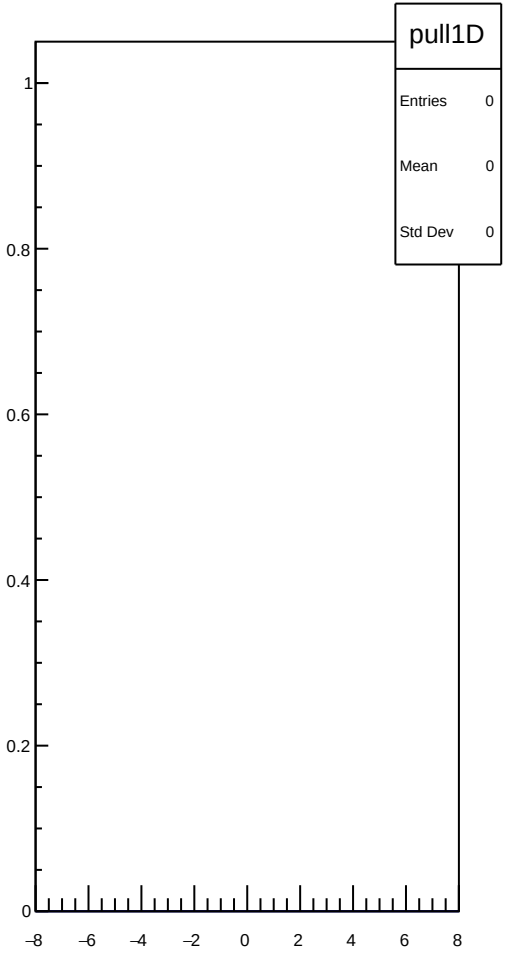
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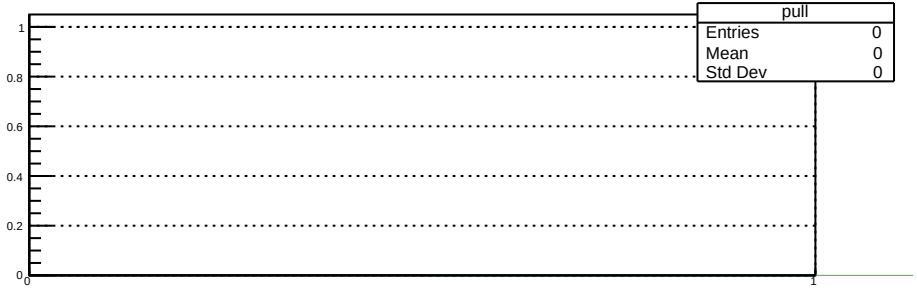
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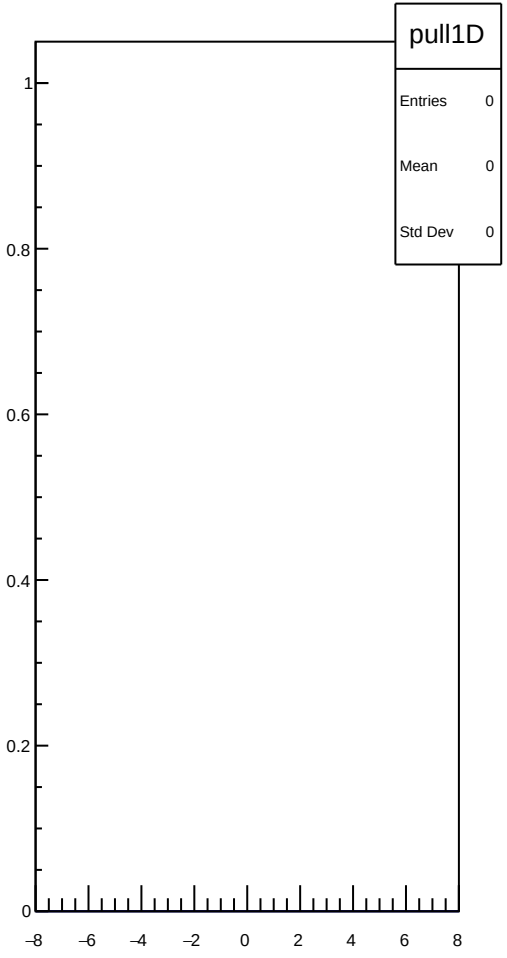
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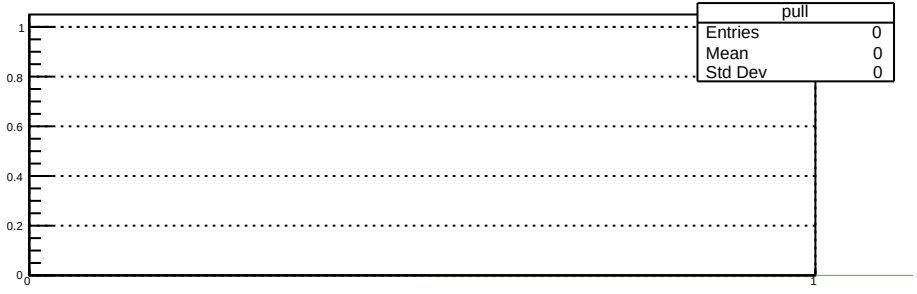
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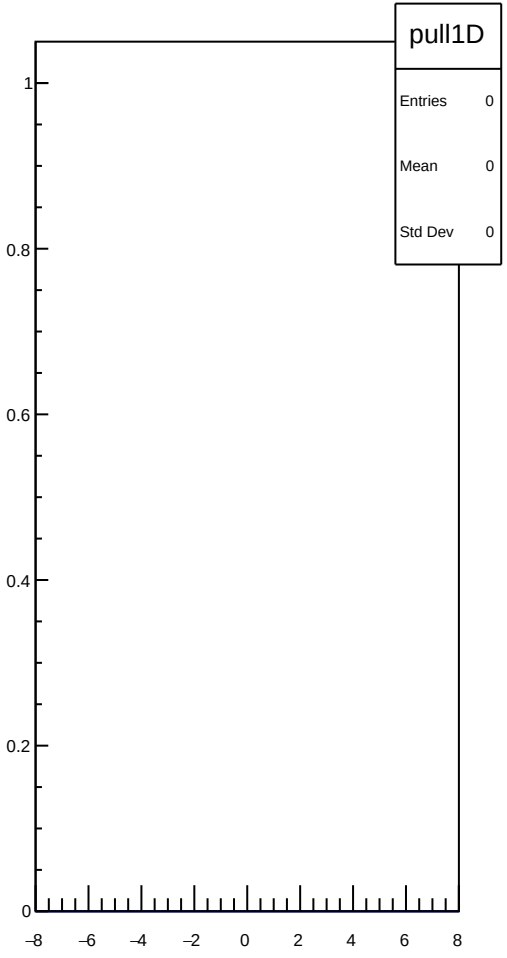
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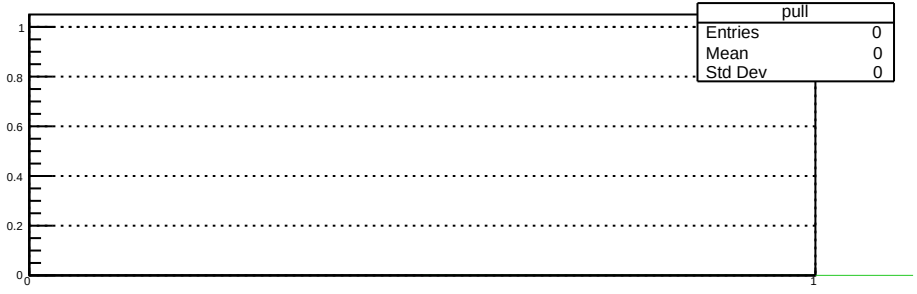
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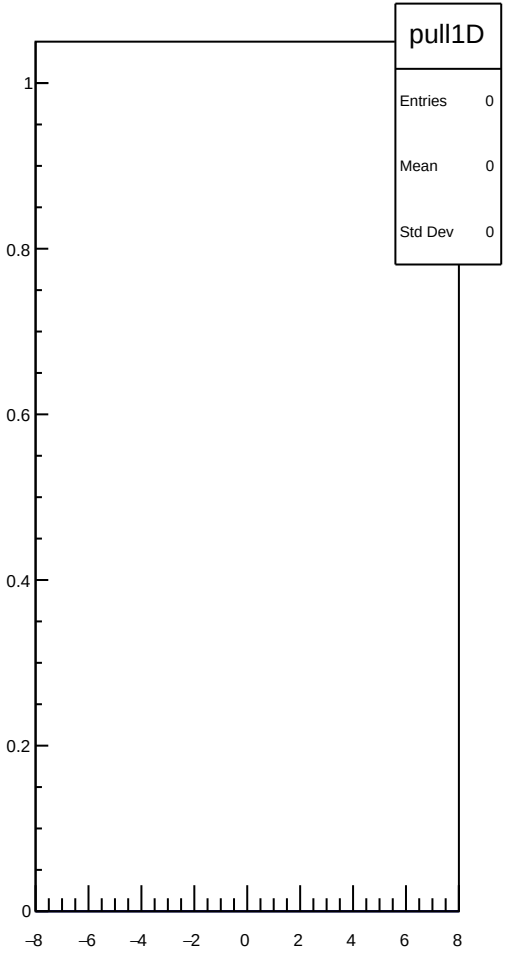
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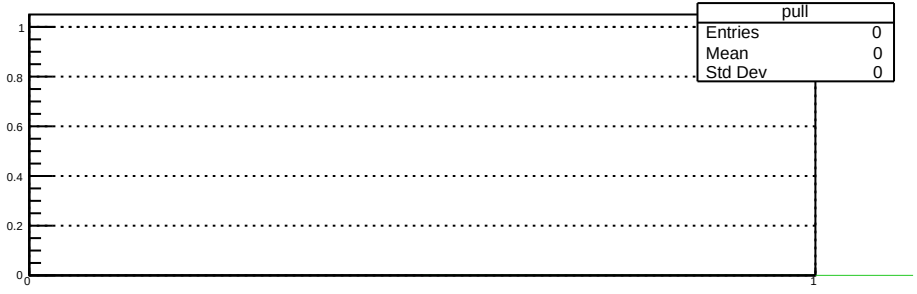
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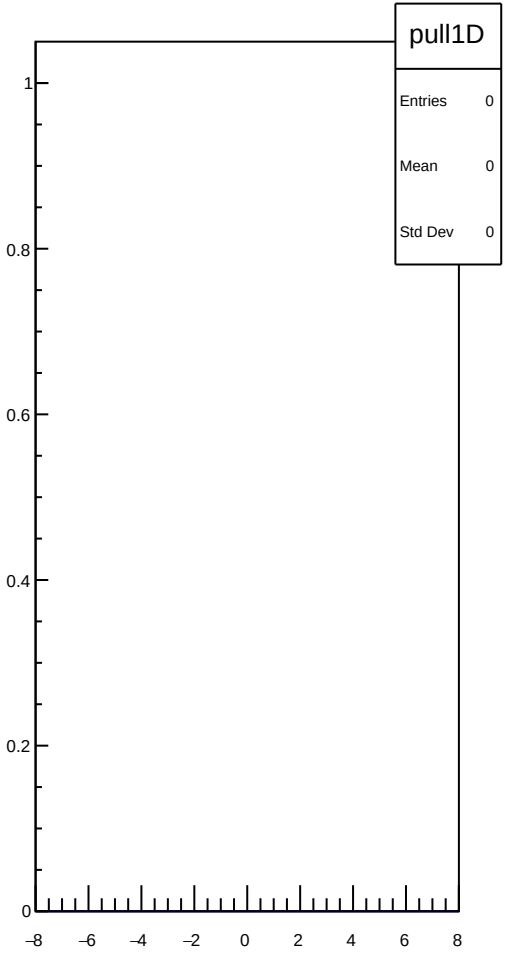
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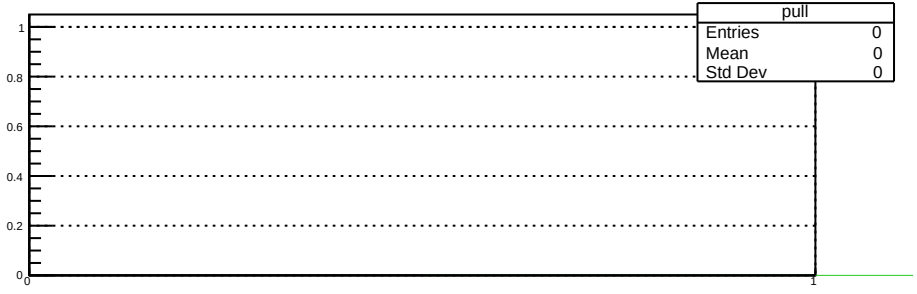
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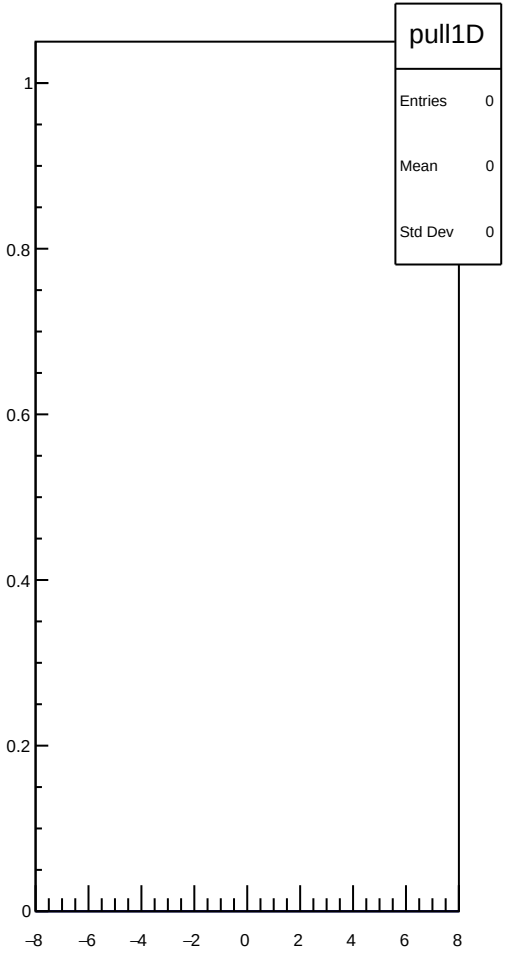
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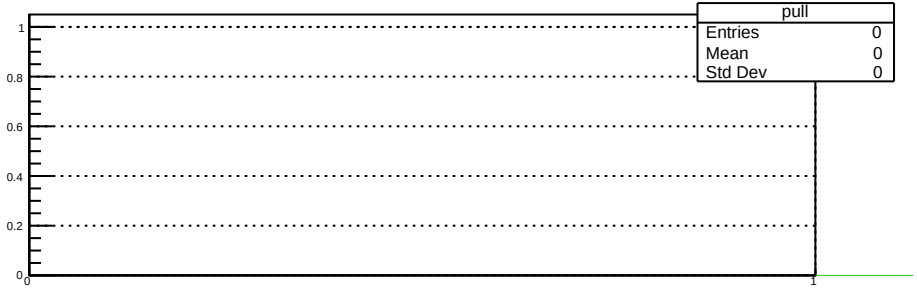
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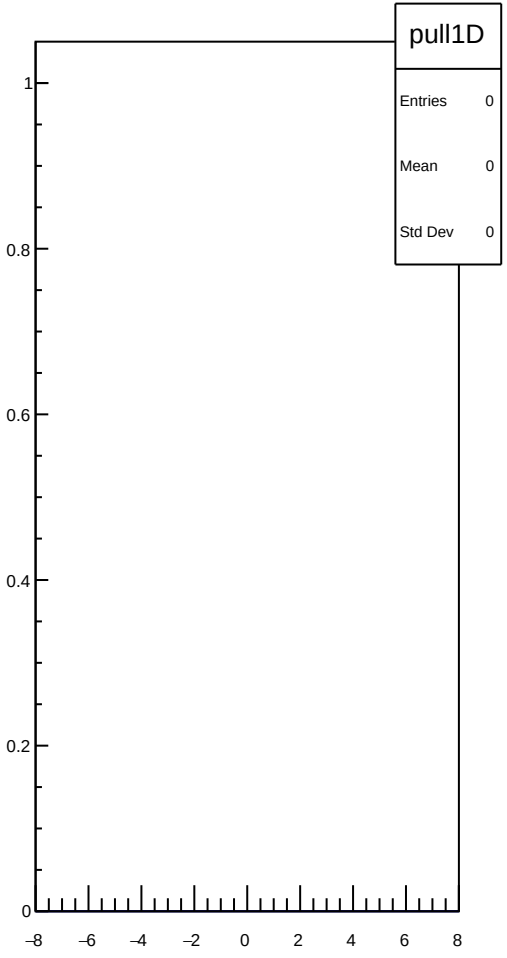
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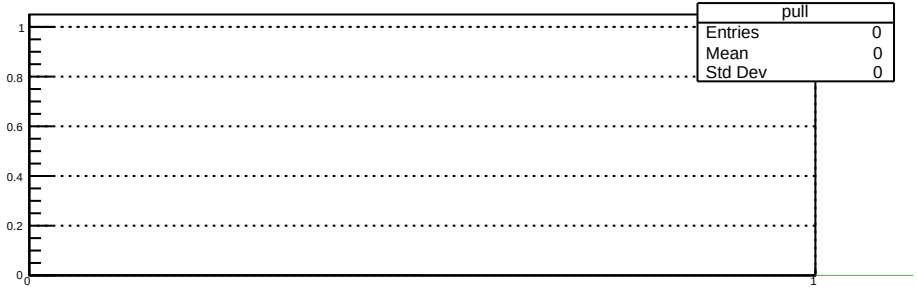
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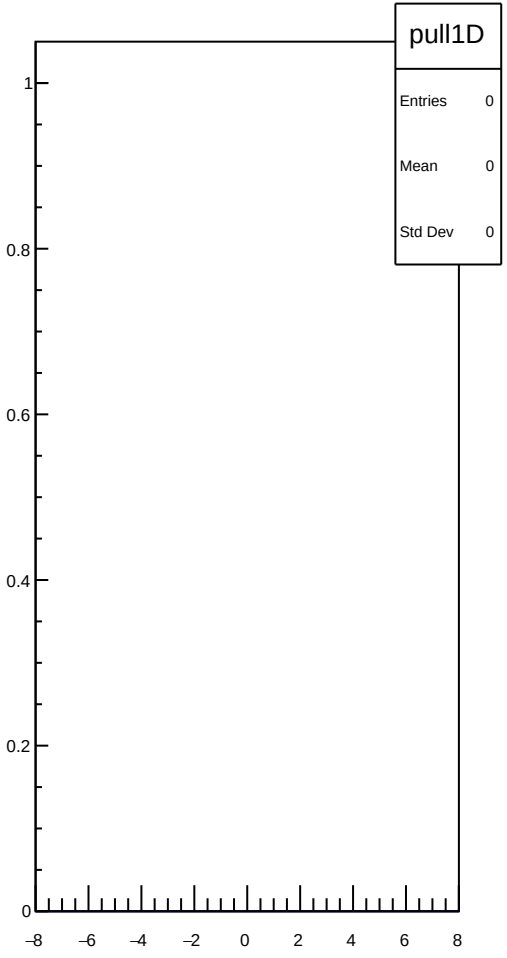
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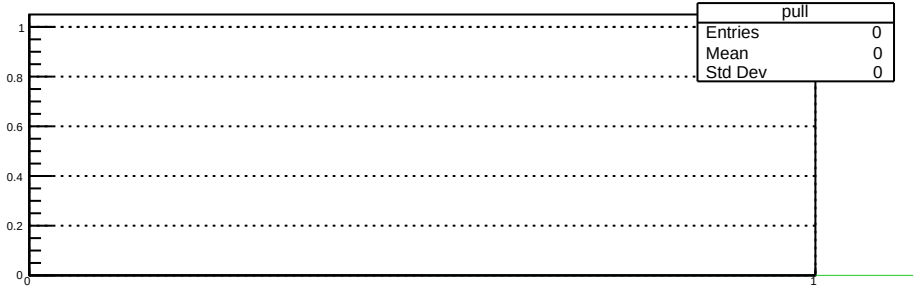
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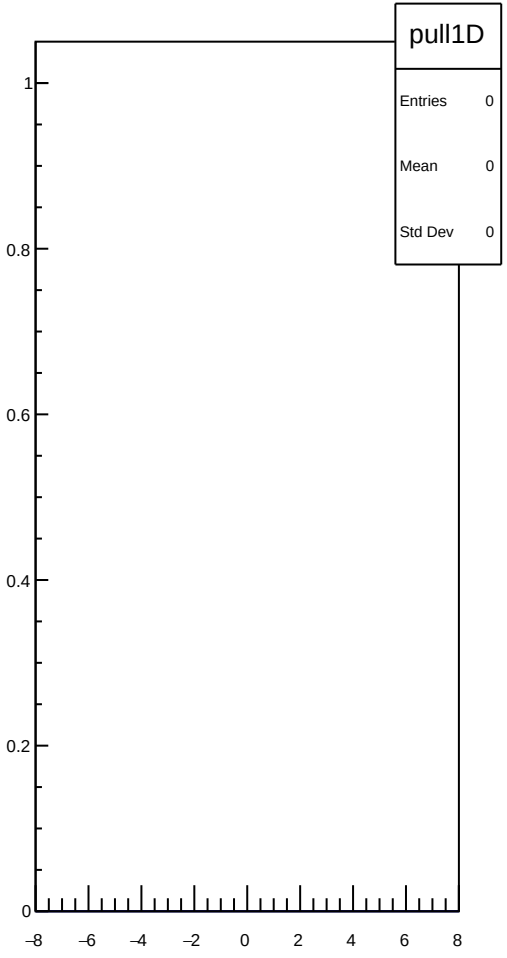
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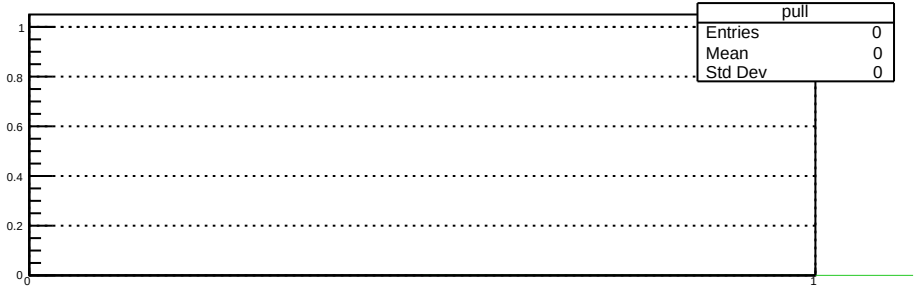
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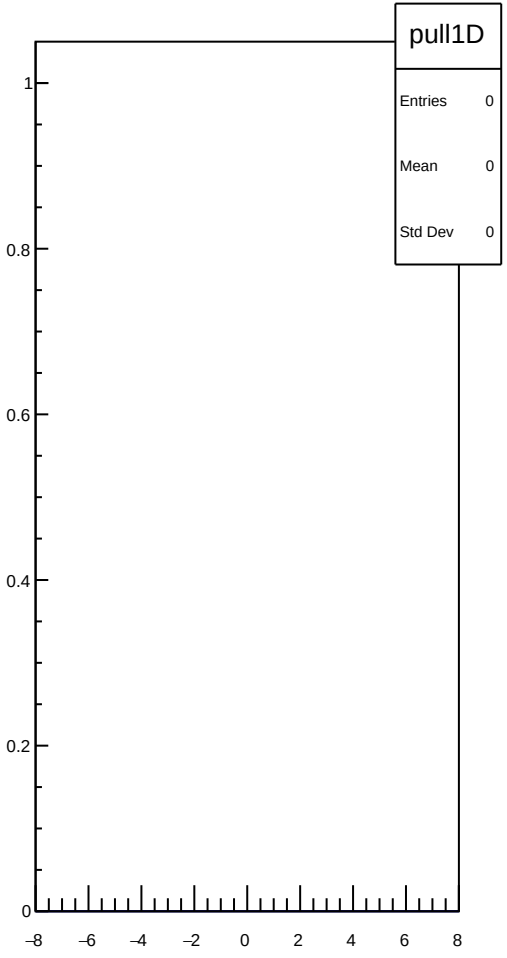
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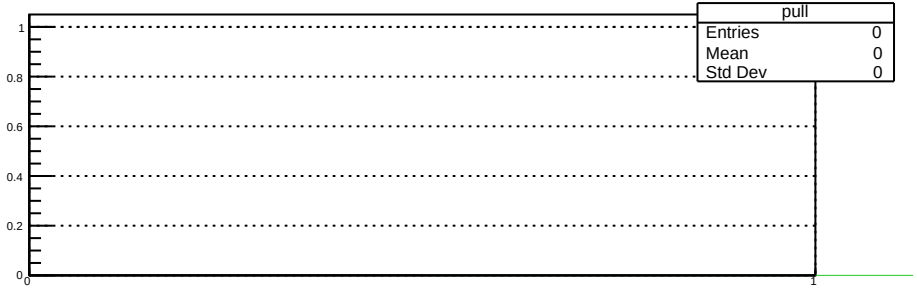
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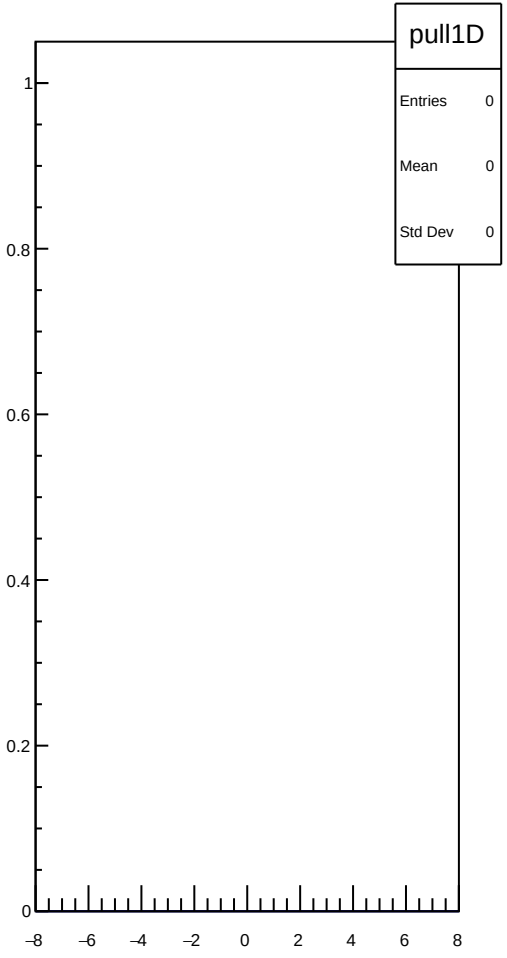
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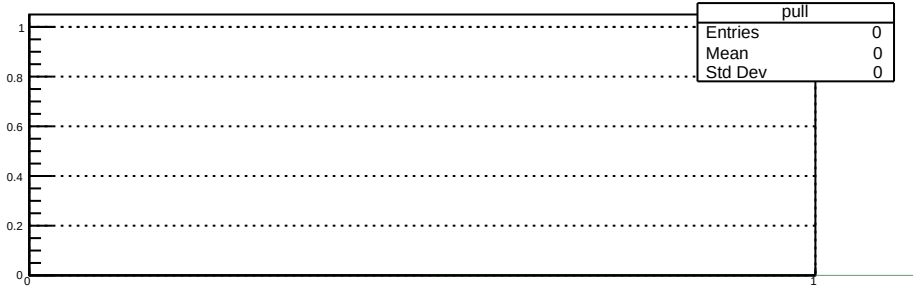
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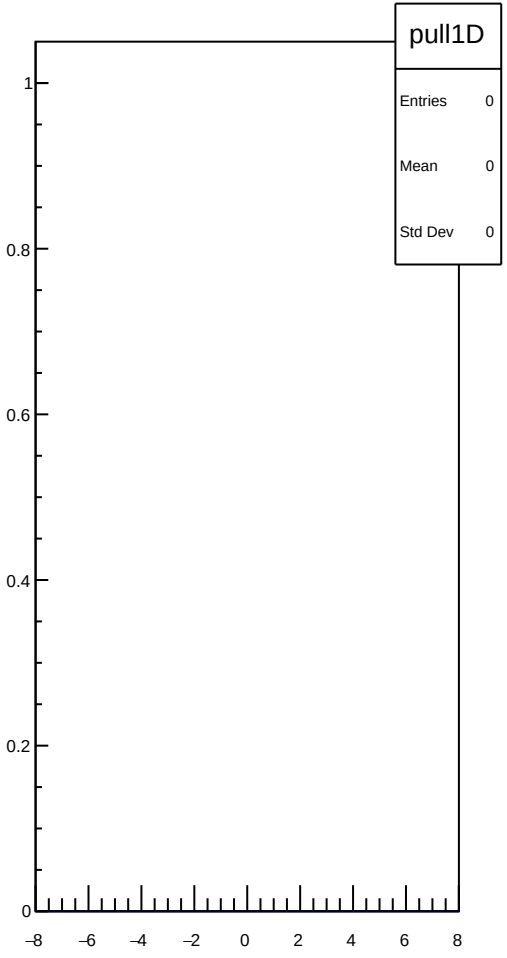
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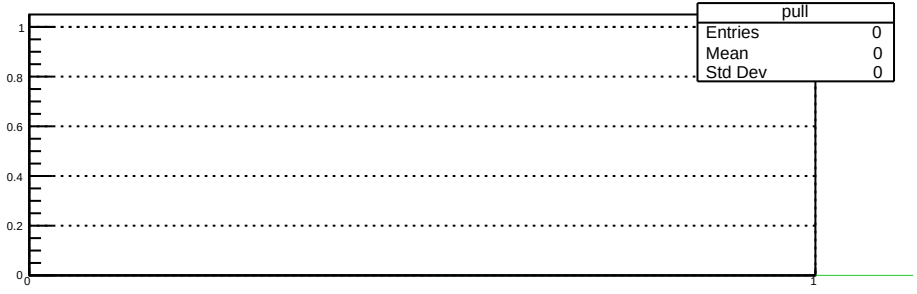
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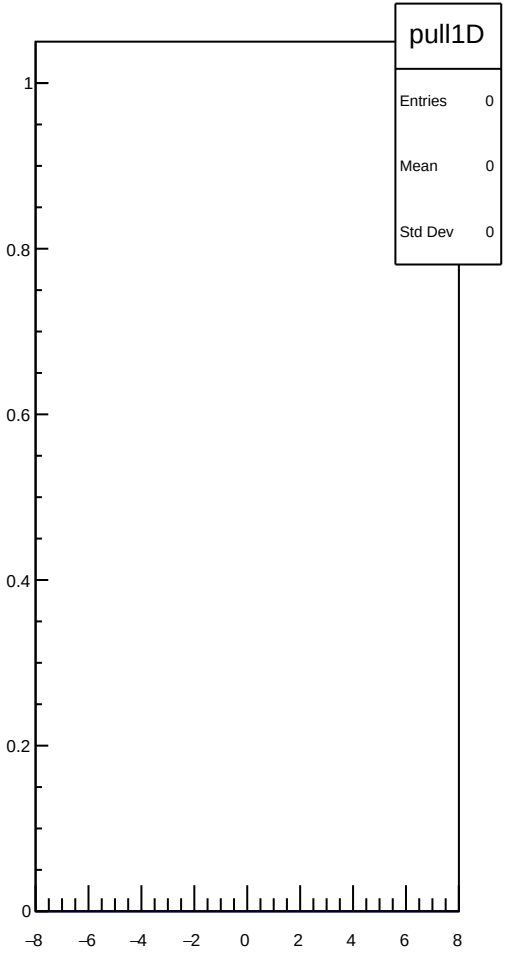
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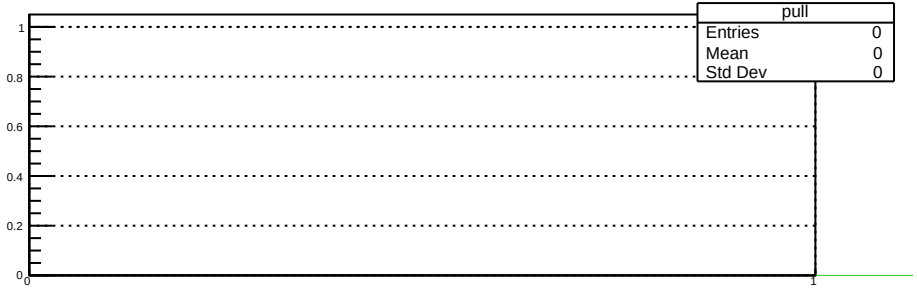
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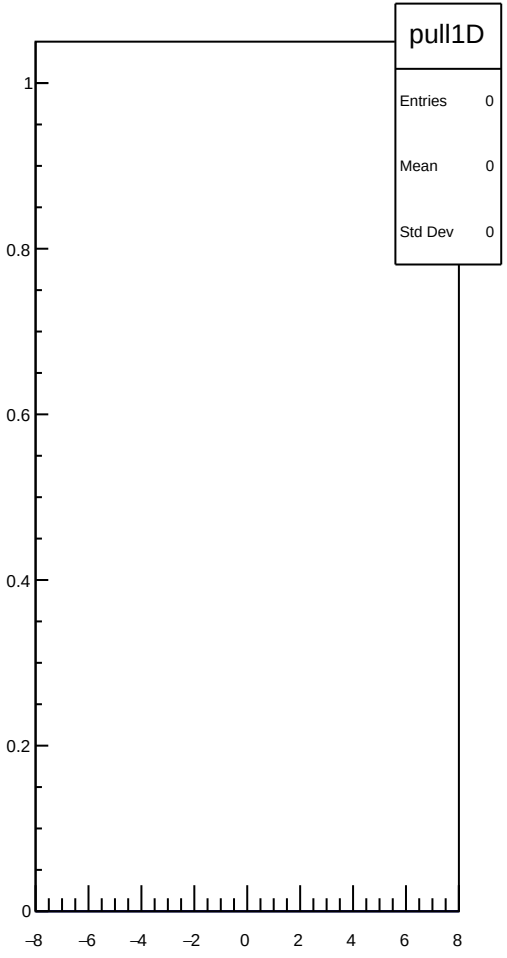
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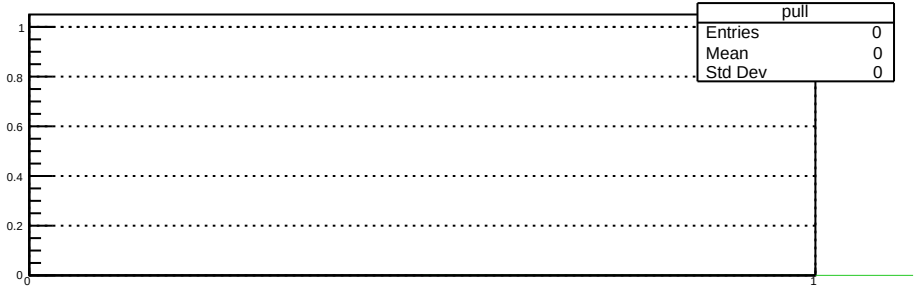
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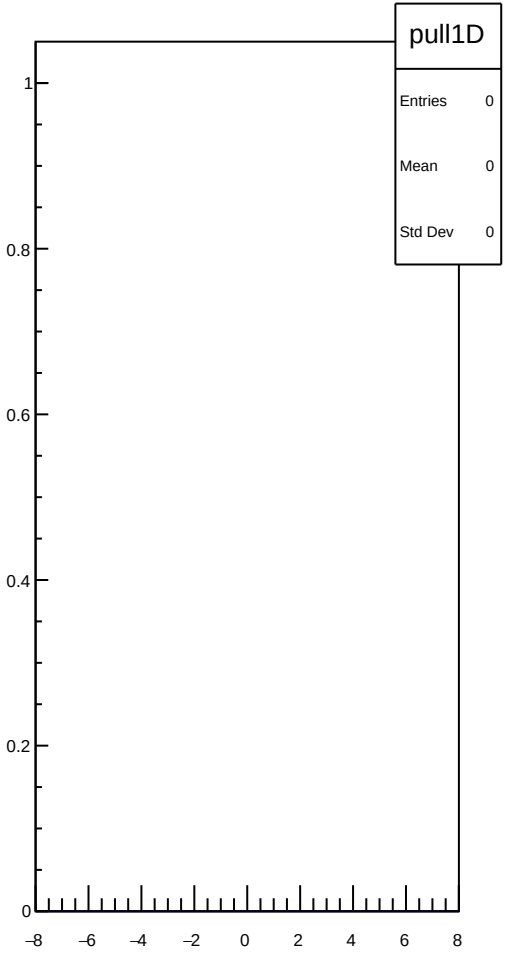
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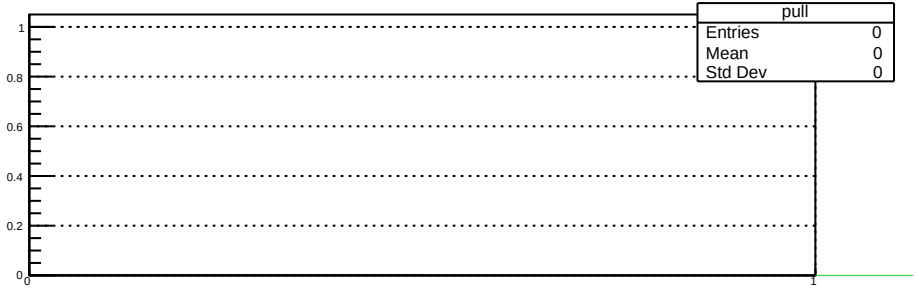
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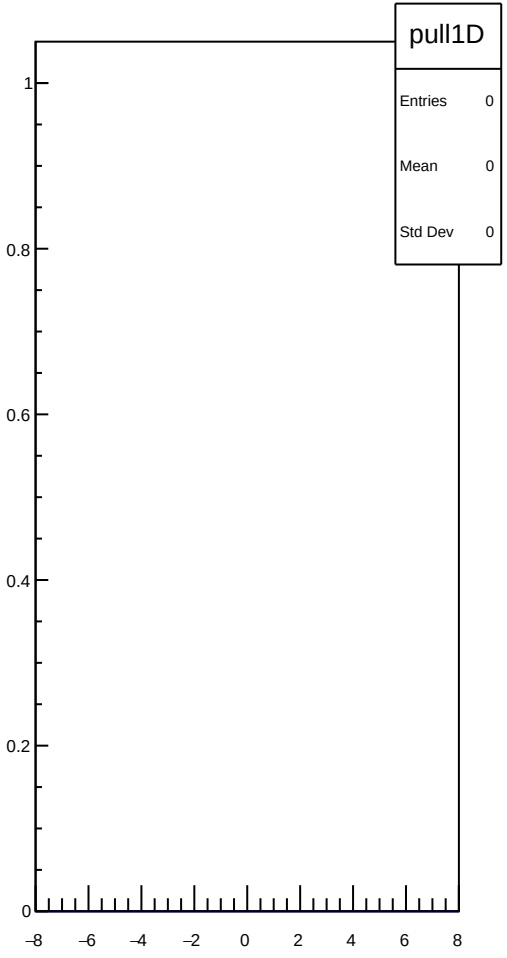
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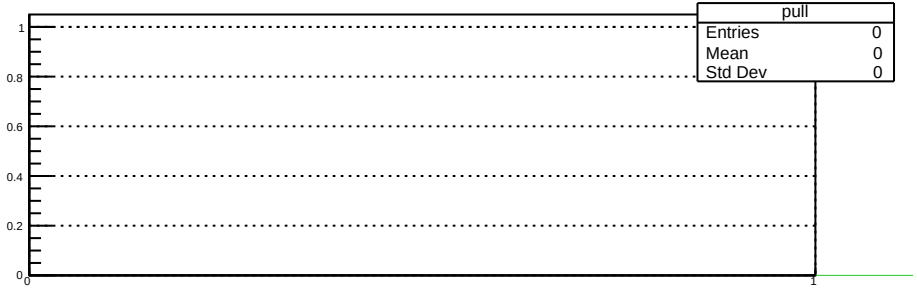
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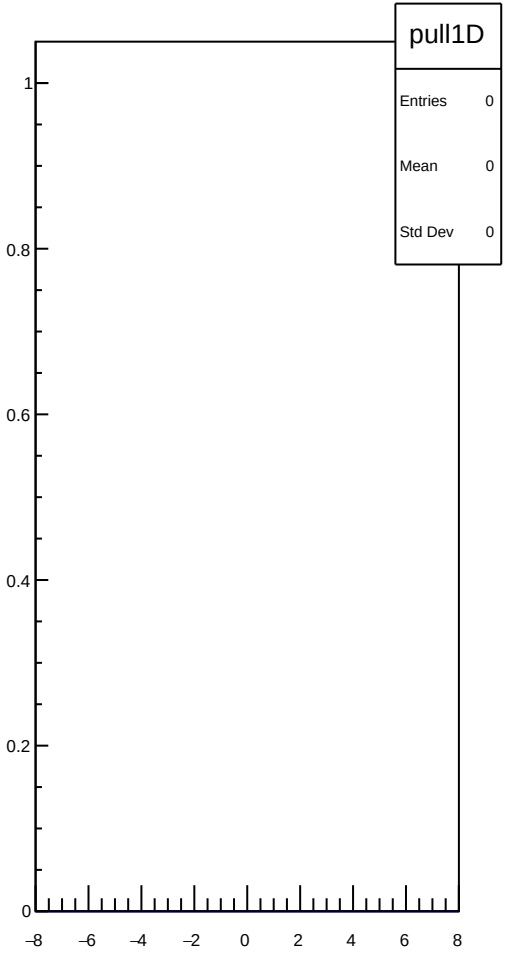
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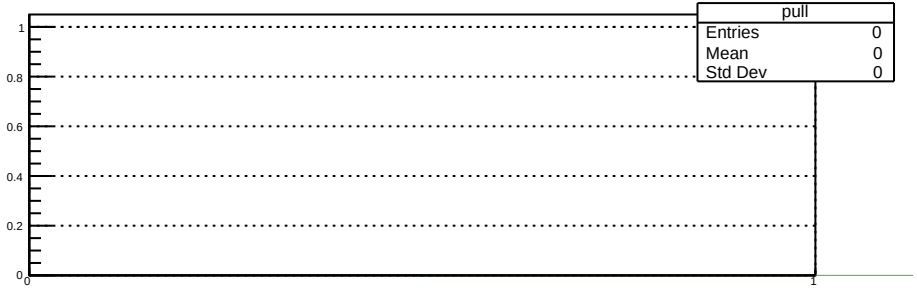
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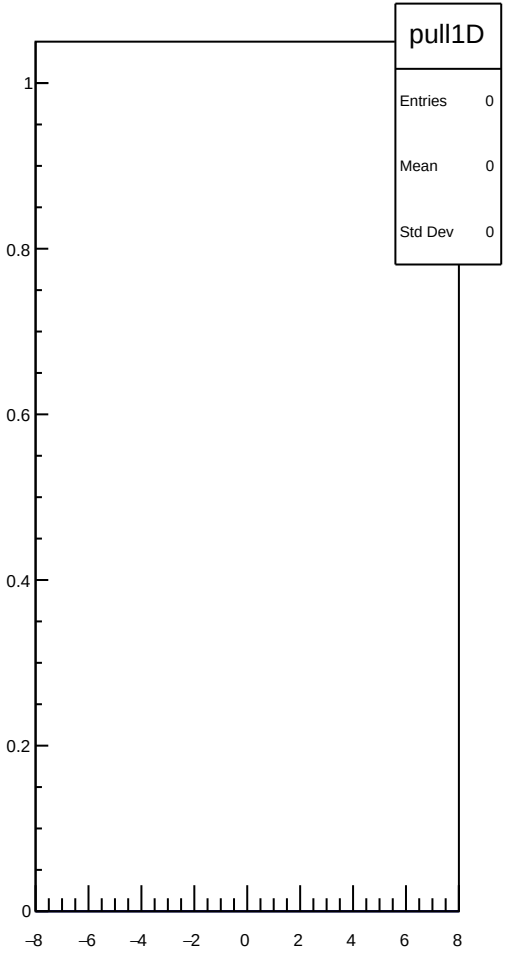
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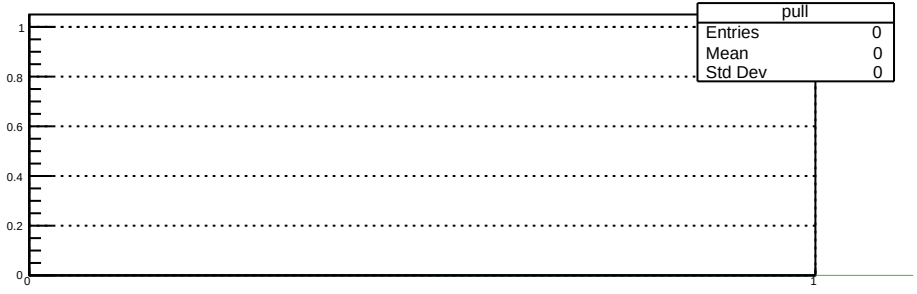
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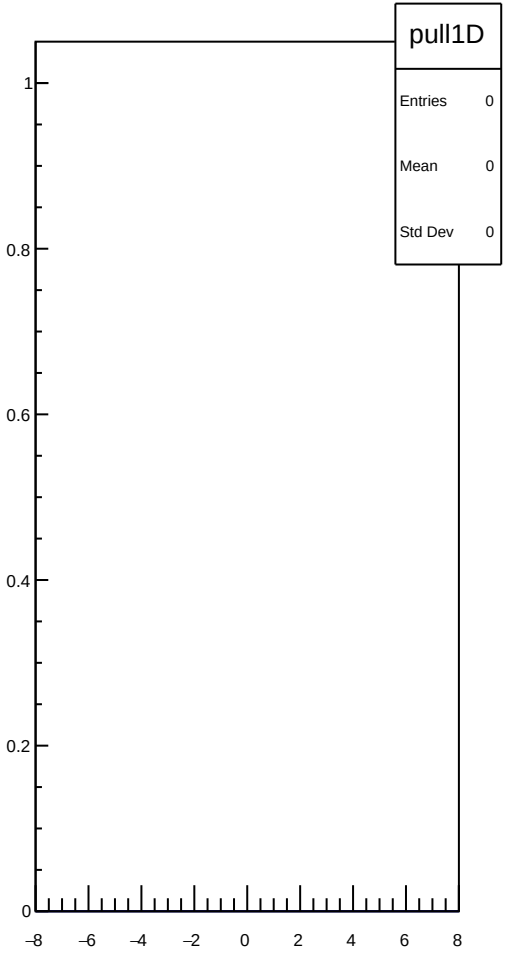
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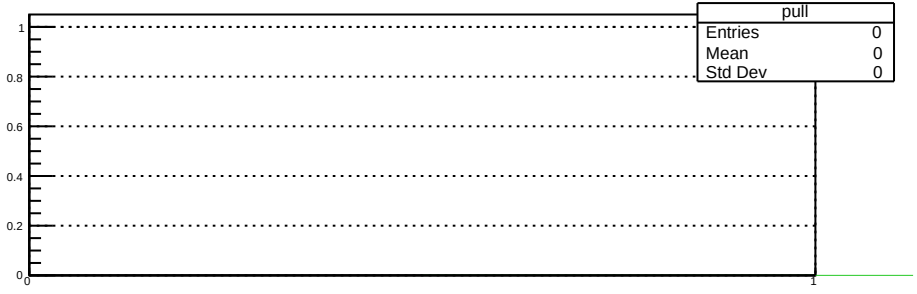
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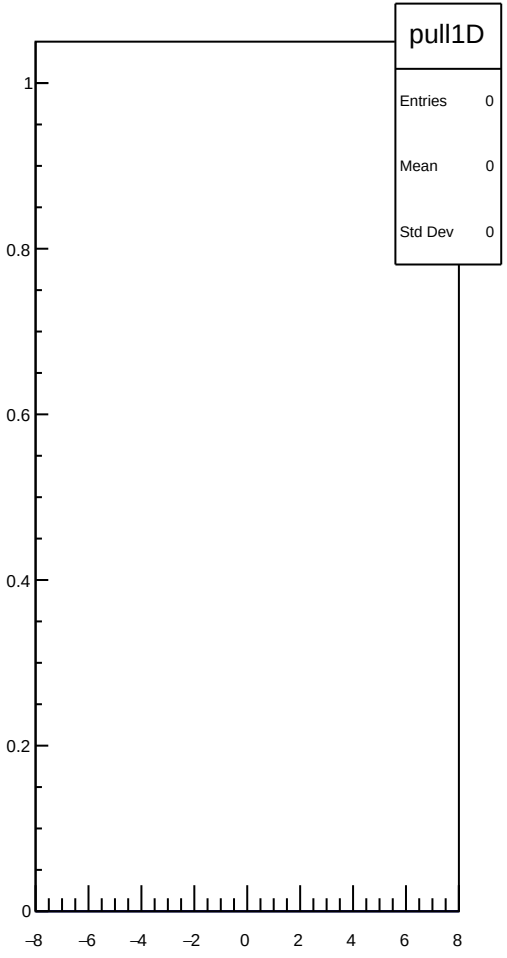
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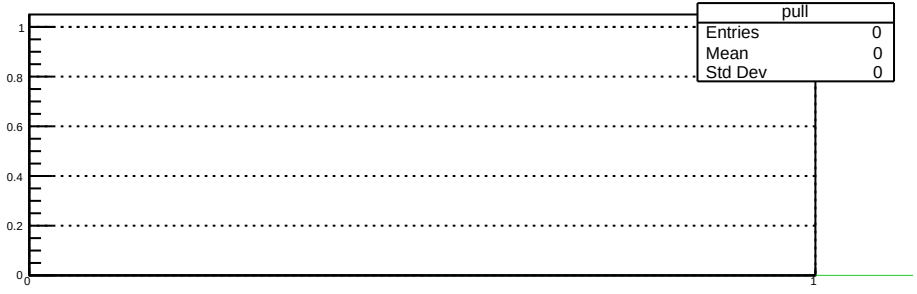
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Std Dev 0
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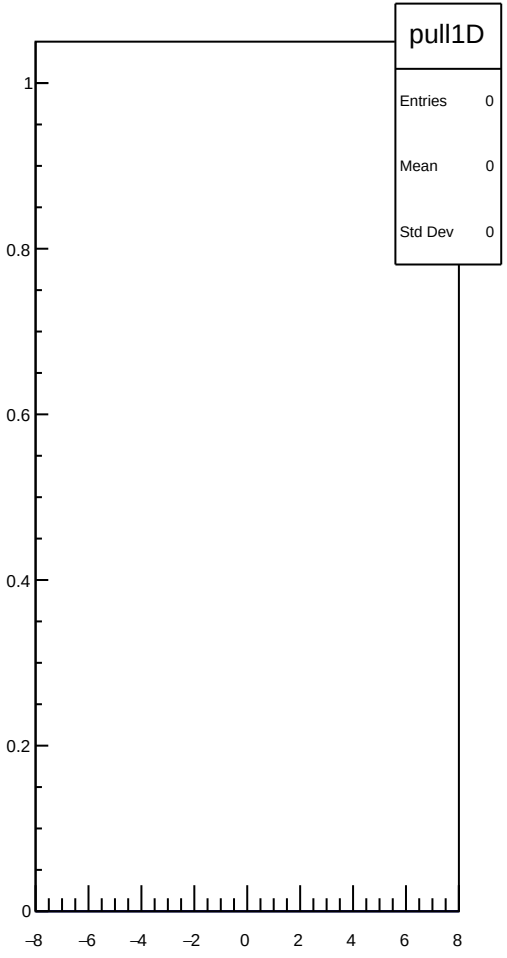
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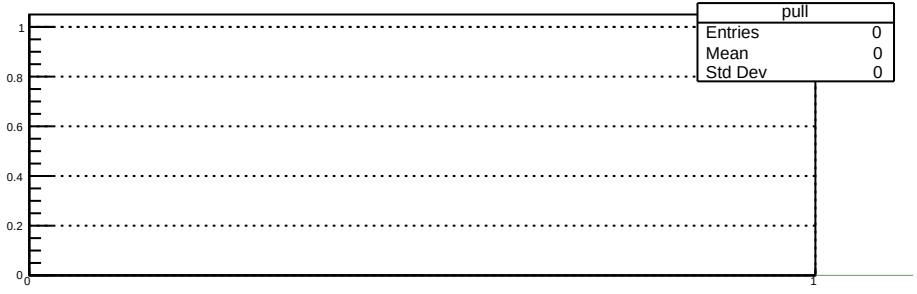
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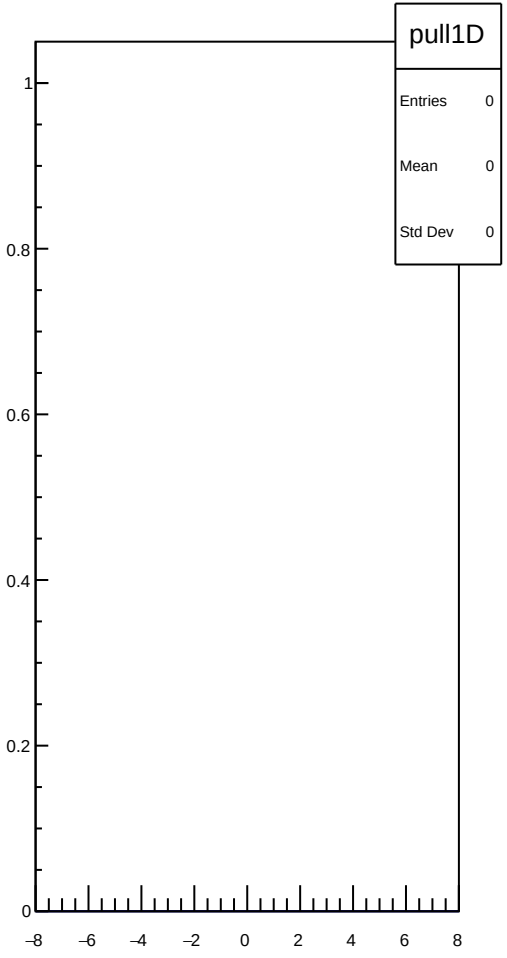
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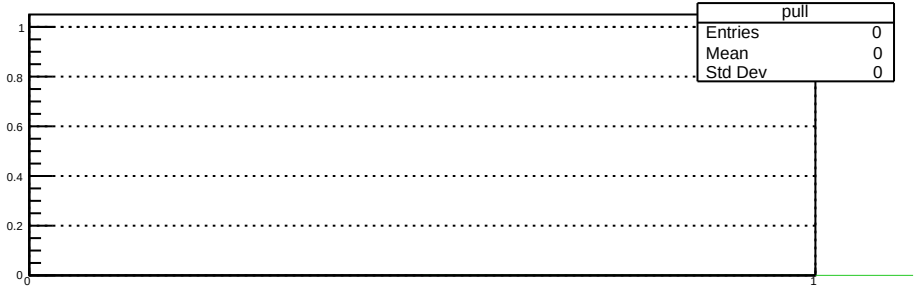
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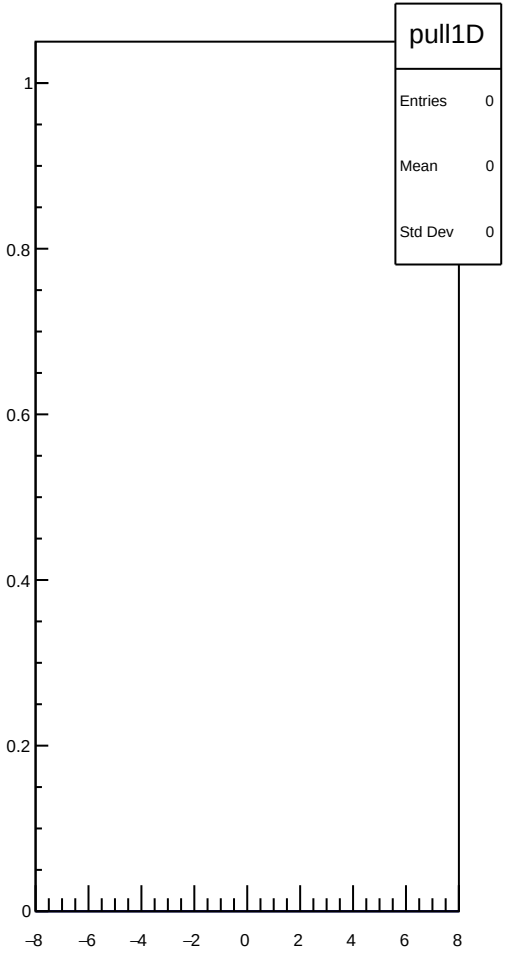
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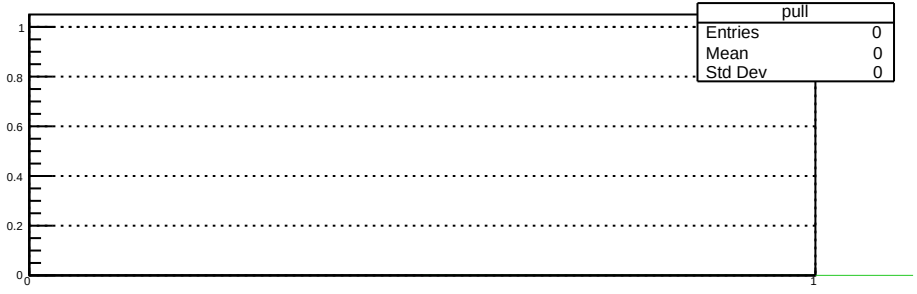
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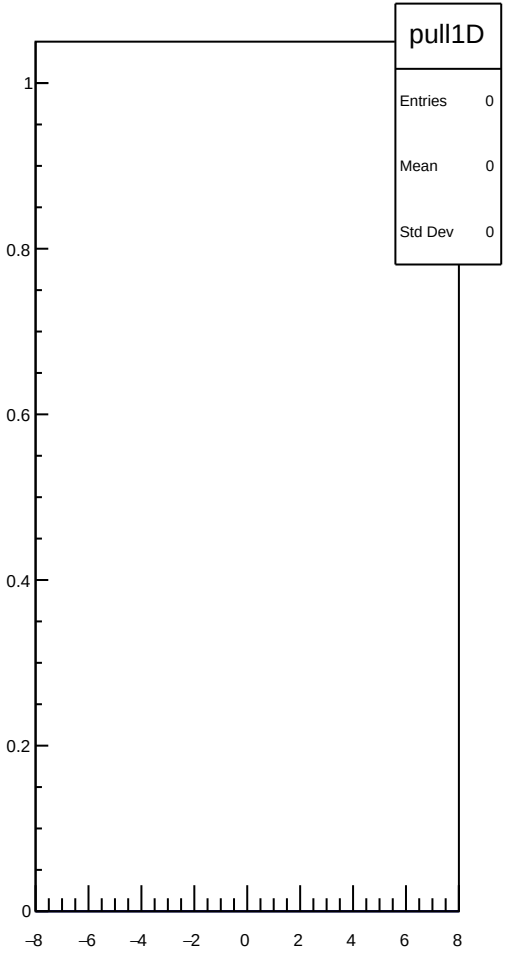
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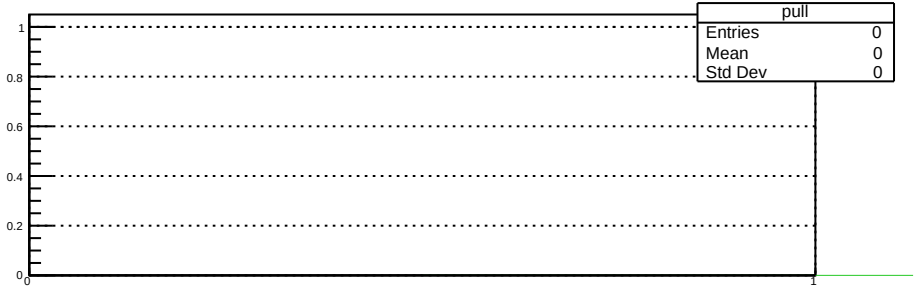
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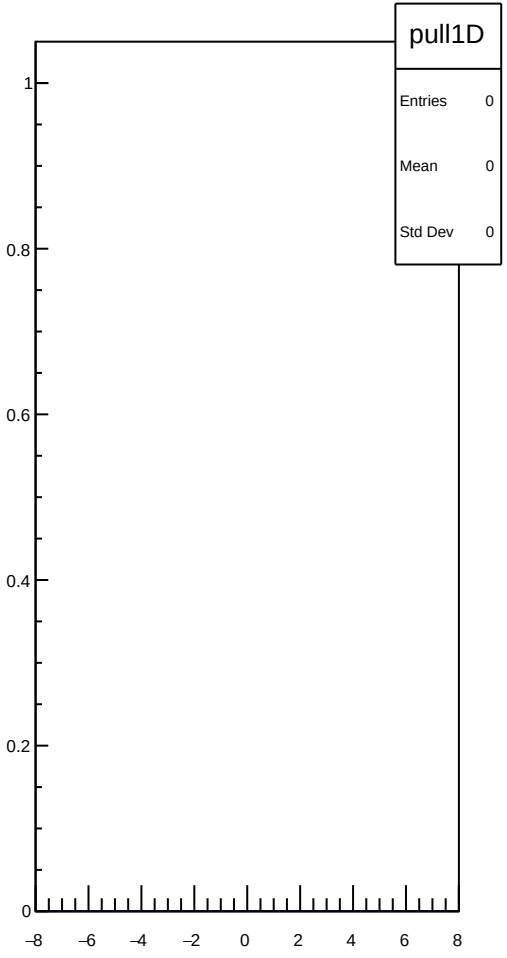
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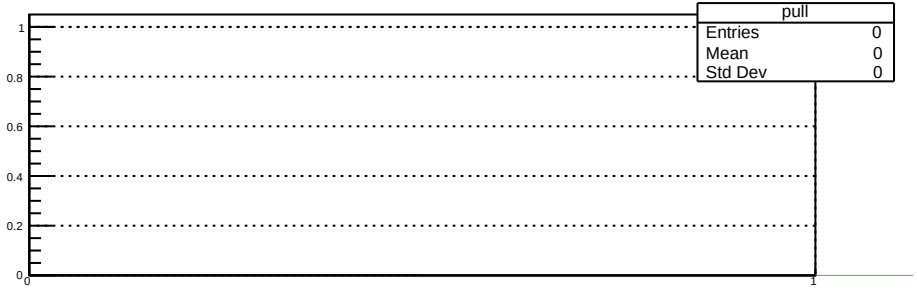
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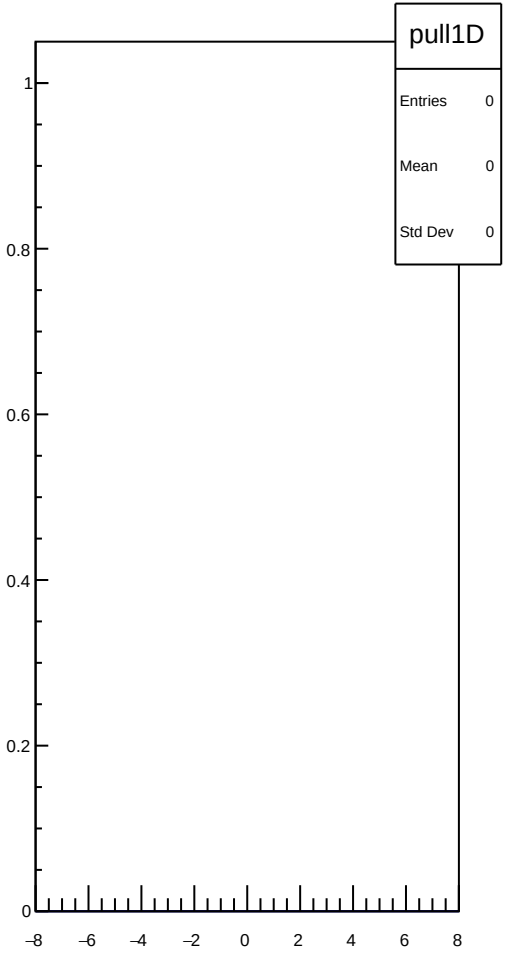
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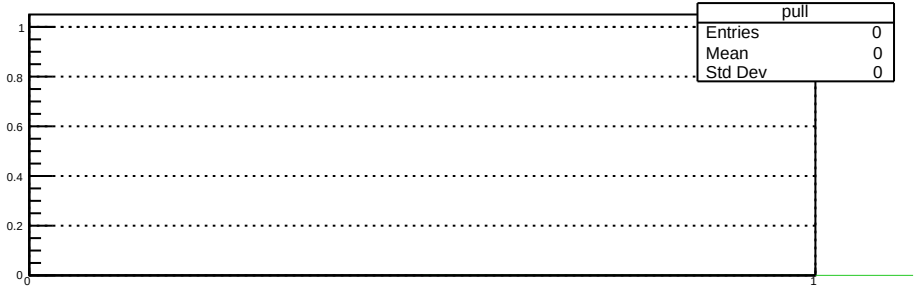
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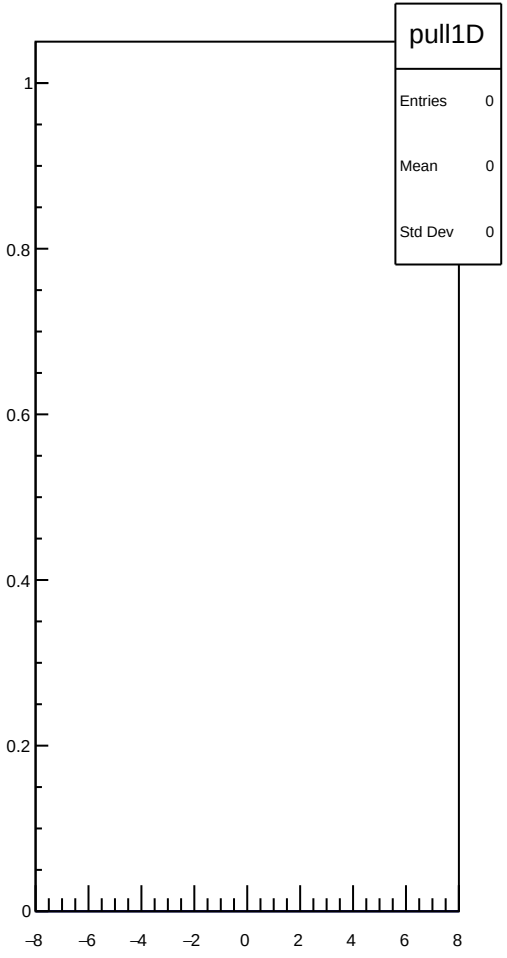
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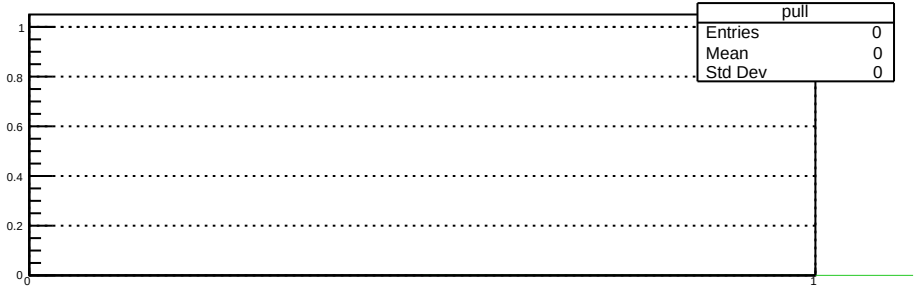
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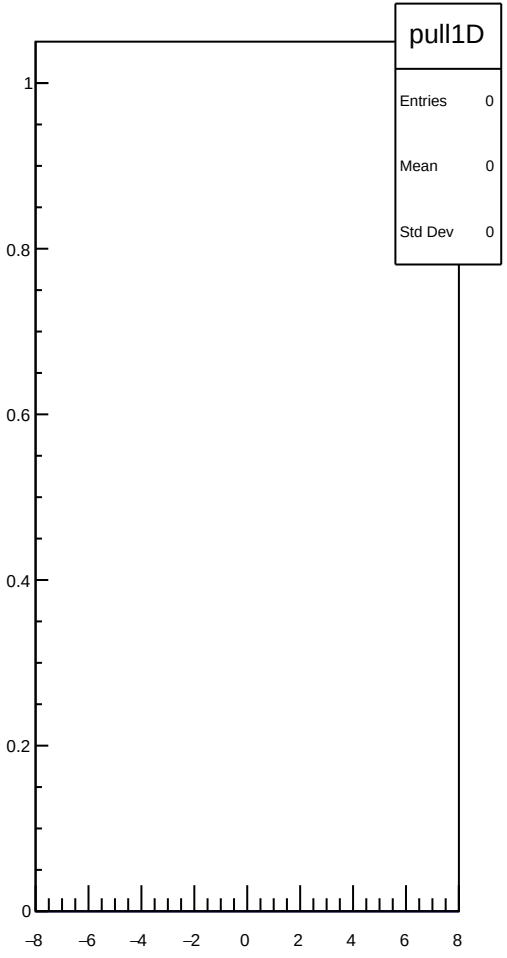
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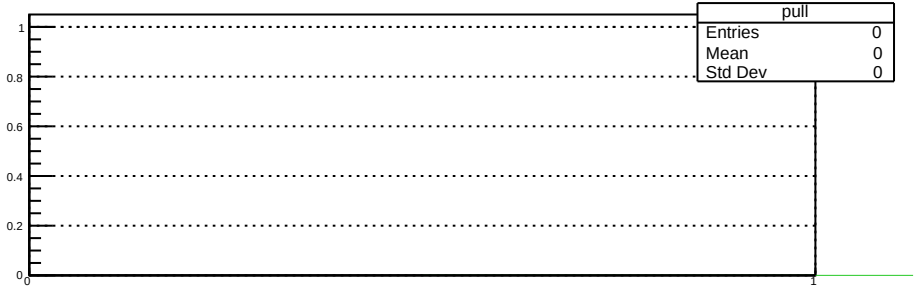
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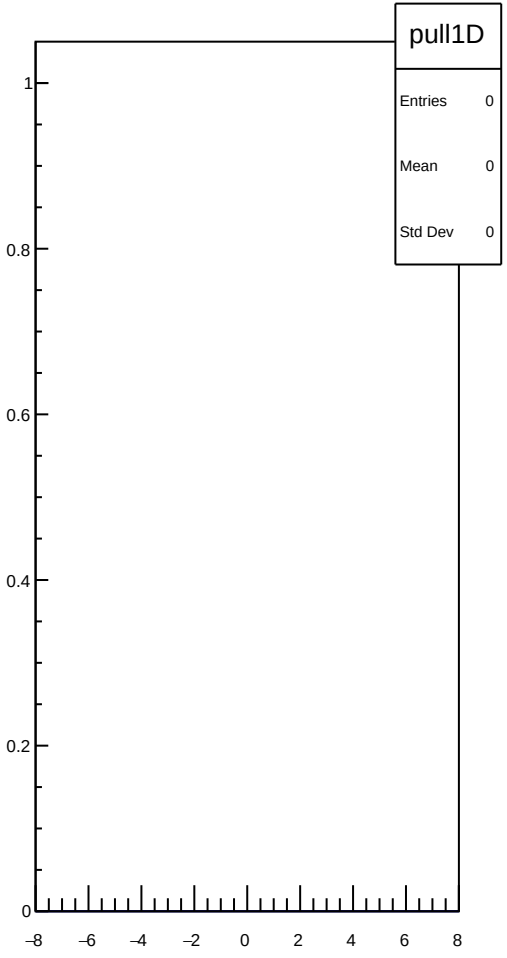
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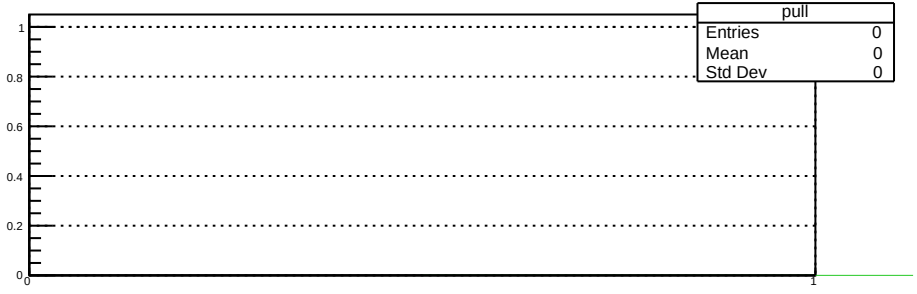
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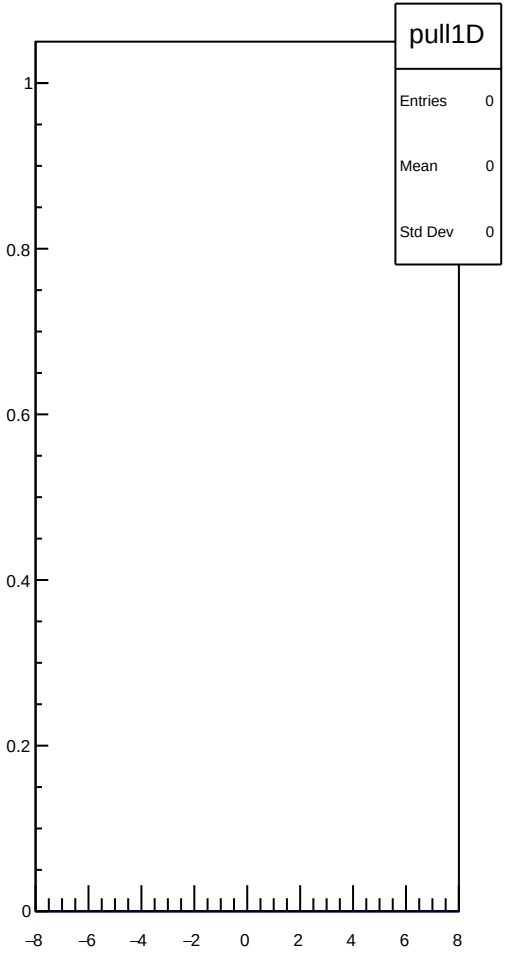
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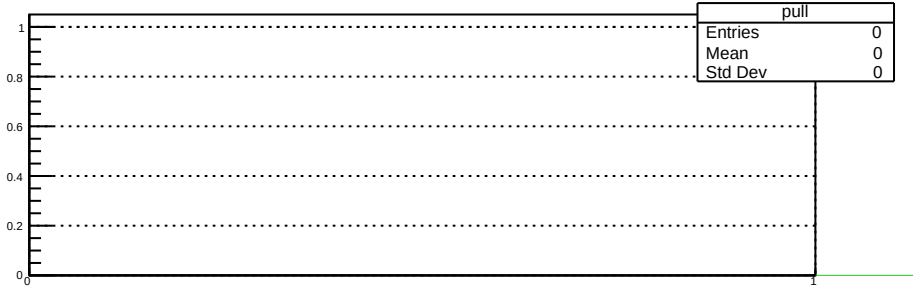
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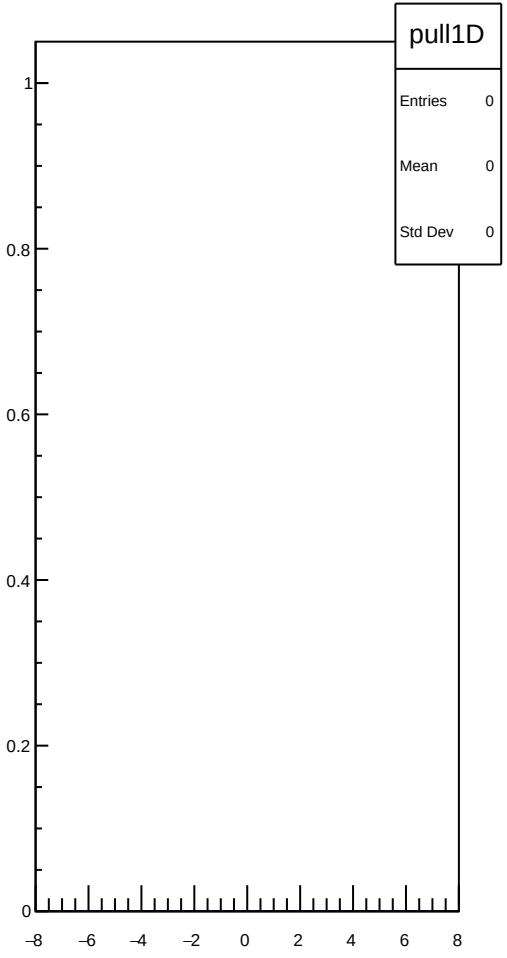
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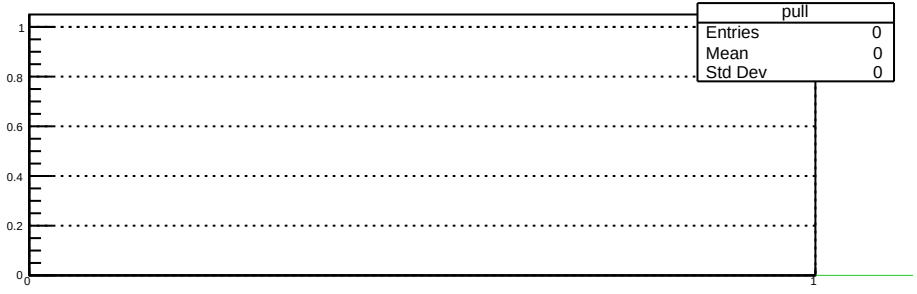
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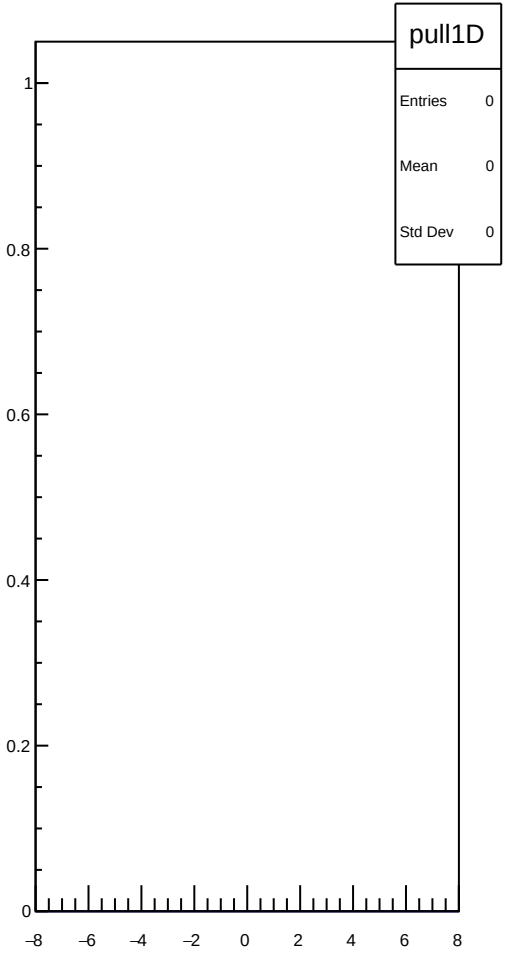
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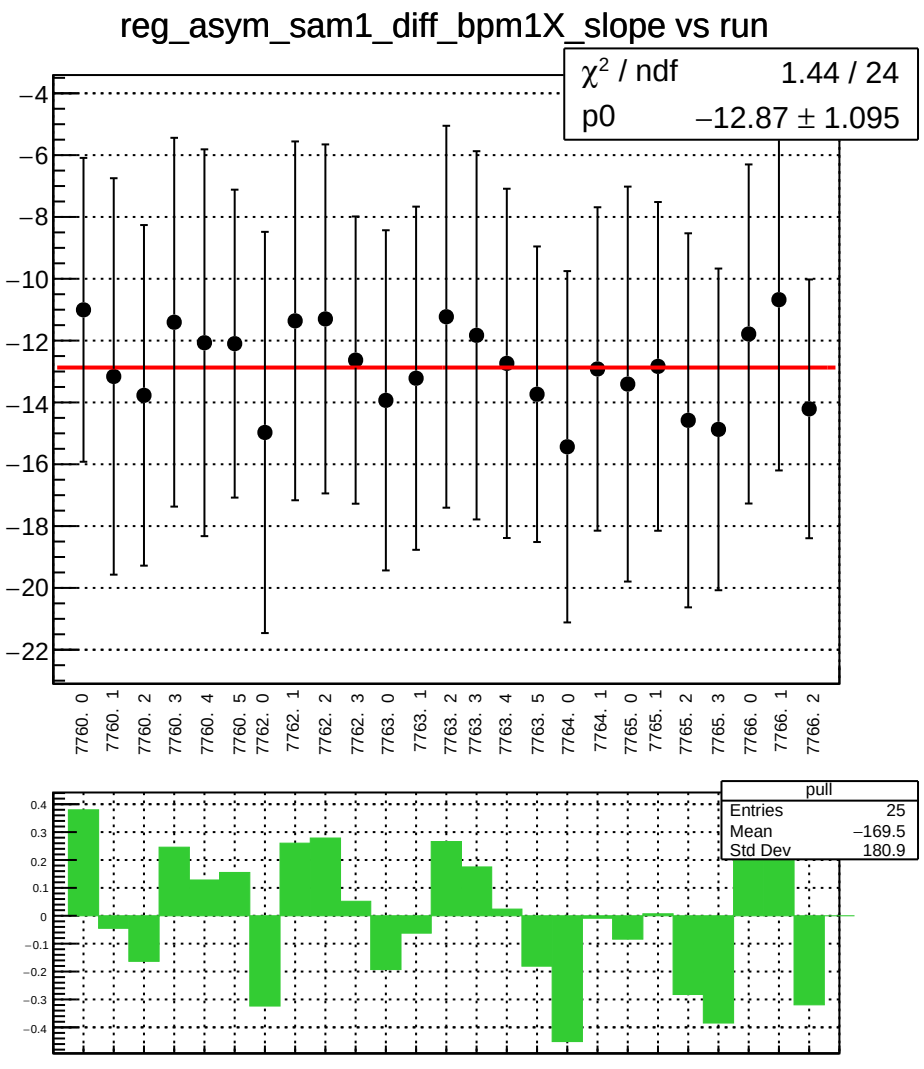
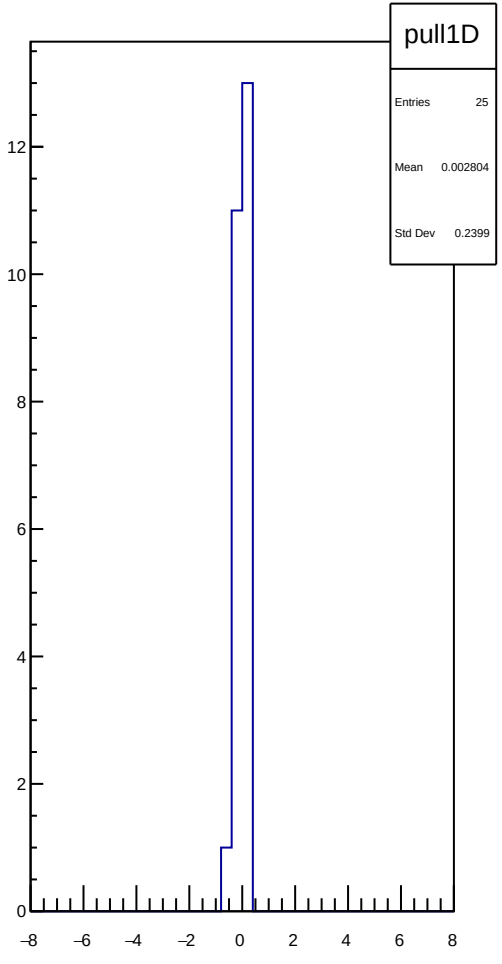

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 1.44 / 24
p0 −12.87 ± 1.095
pull
Entries 25
Mean −169.5
Std Dev 180.9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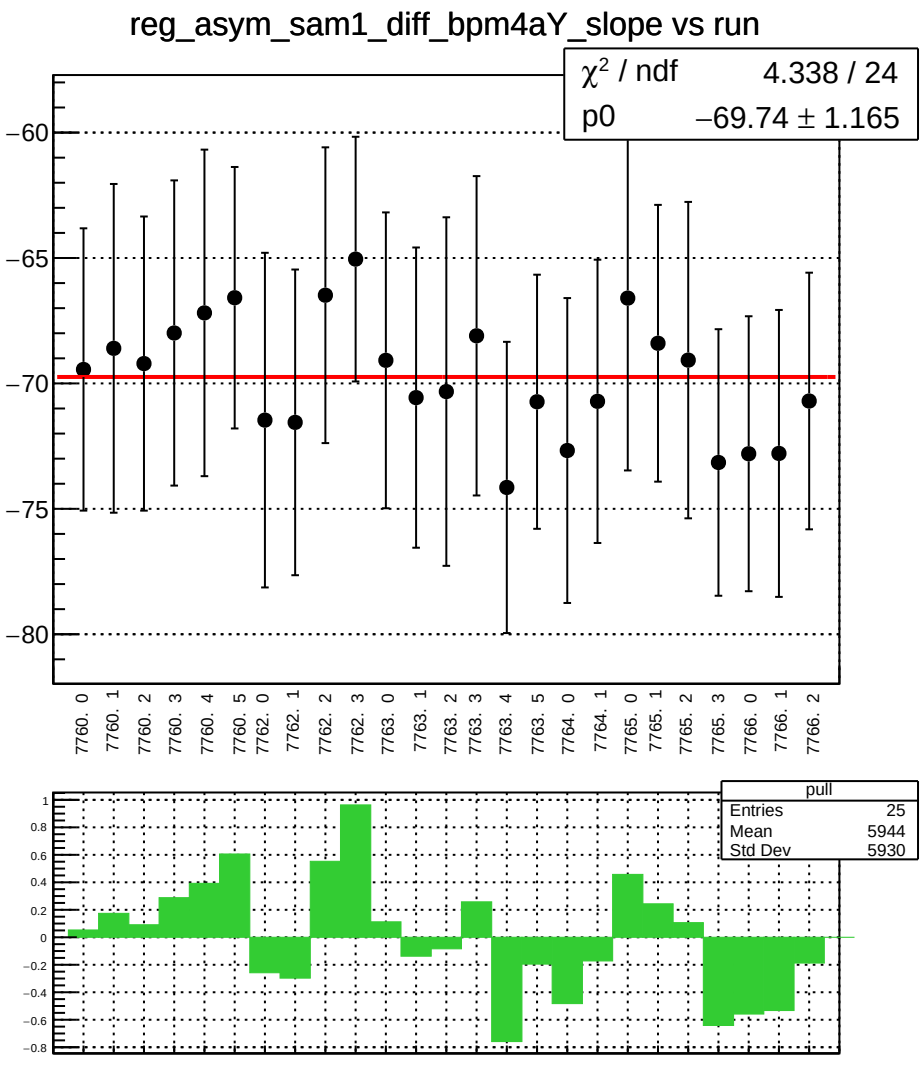
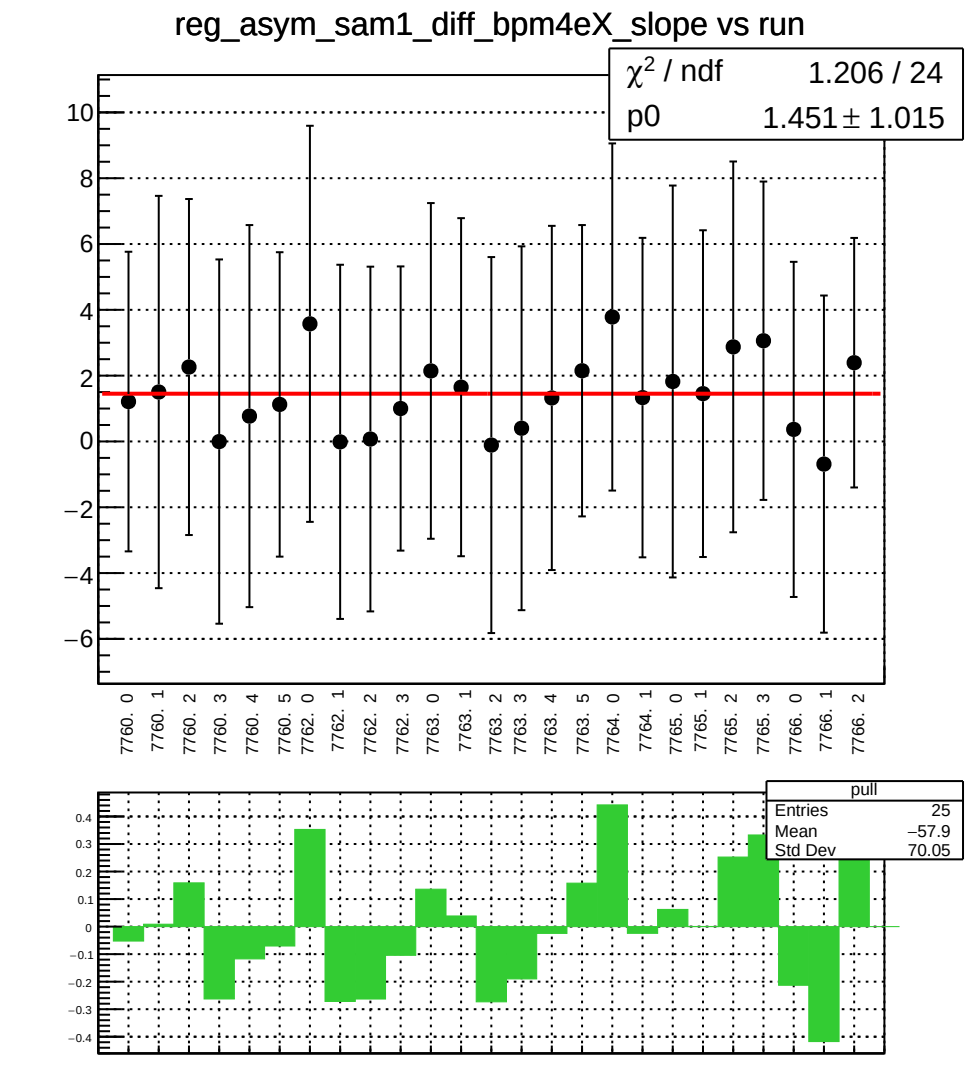
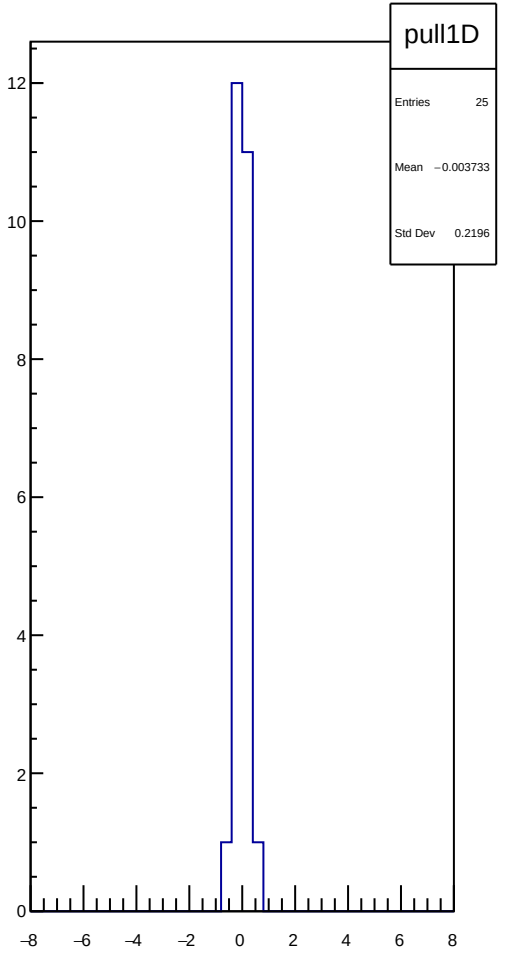
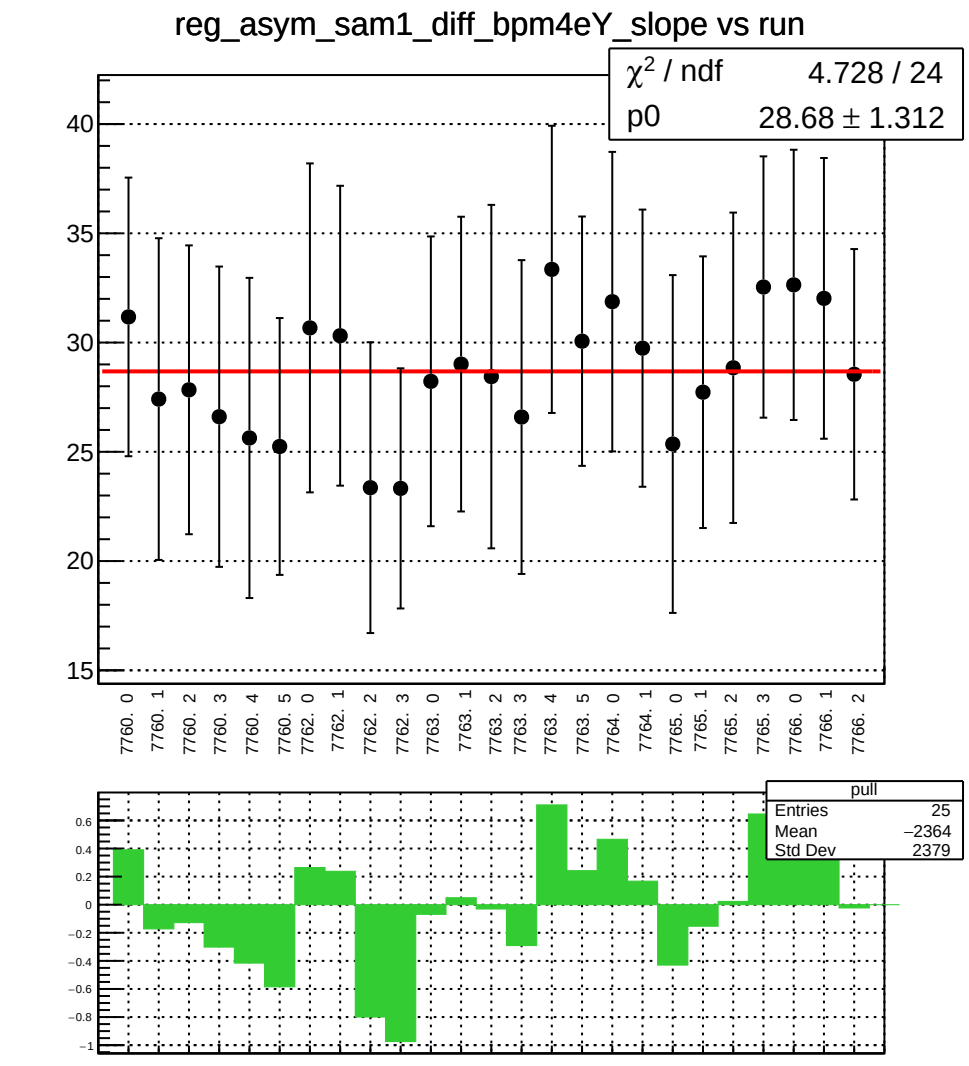
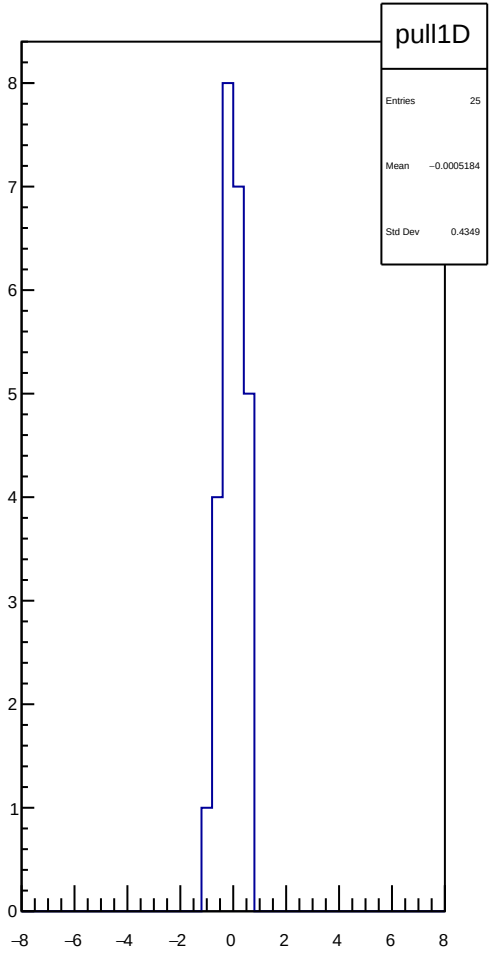
Mean 0.002804
Std Dev 0.2399

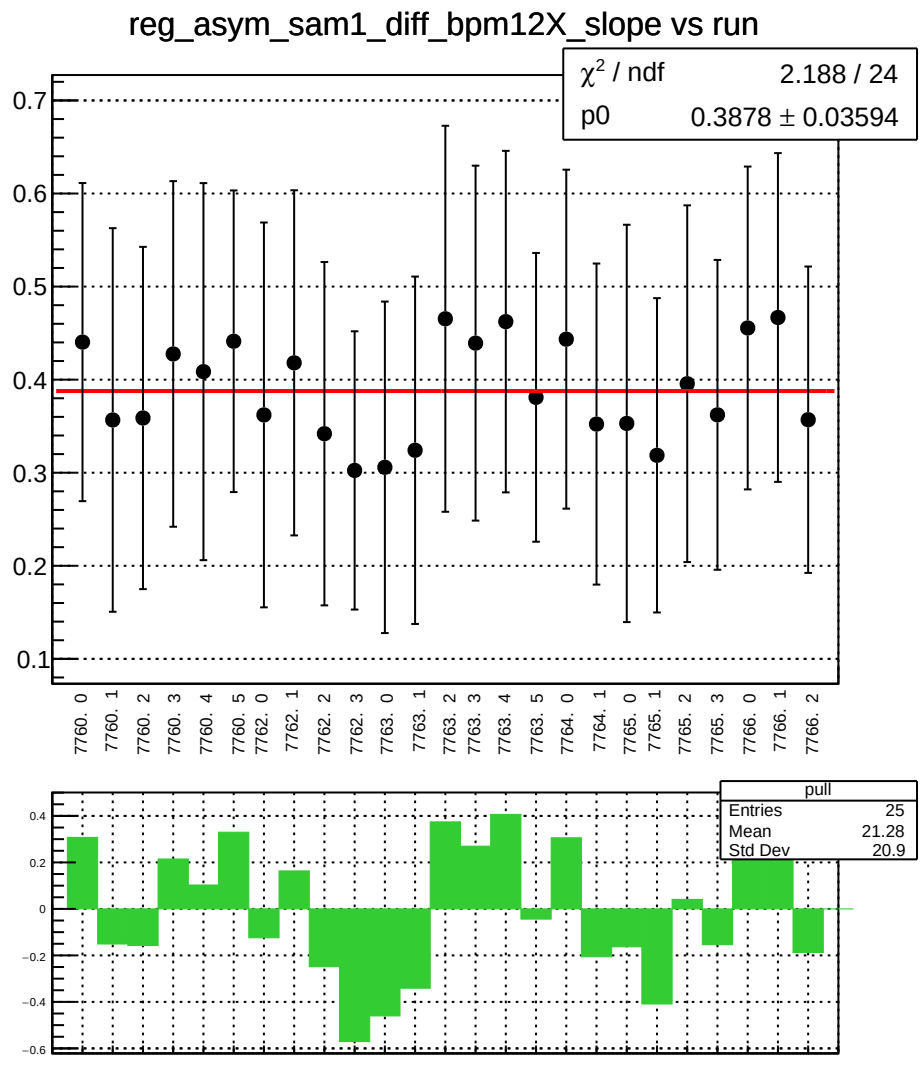

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 4.338 / 24
p0 −69.74 ± 1.165
−60
−65
−70
−75
−80
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 5944
Std Dev 5930
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 25
Mean −0.000232
Std Dev 0.4165
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

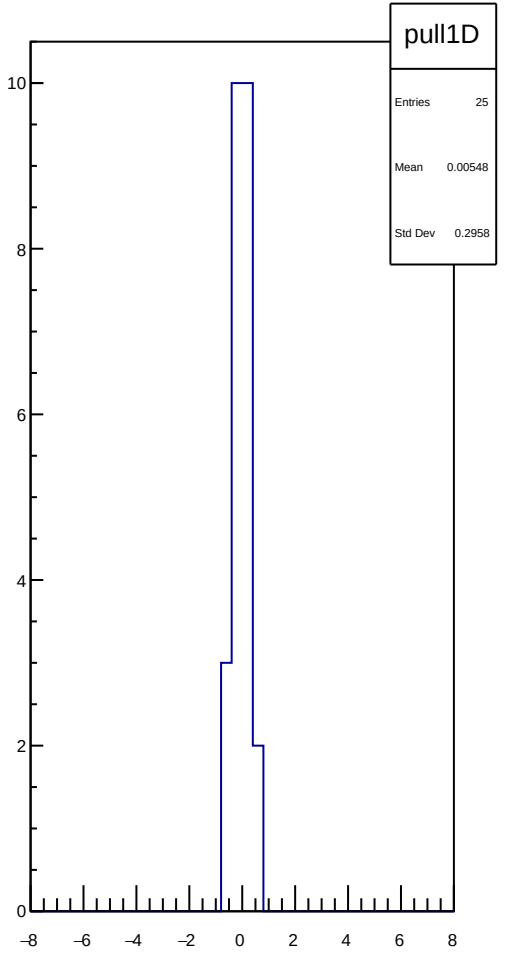

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 1.206 / 24
p0 1.451 ± 1.015
10
8
6
4
2
0
−2
−4
−6
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −57.9
Std Dev 70.05
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

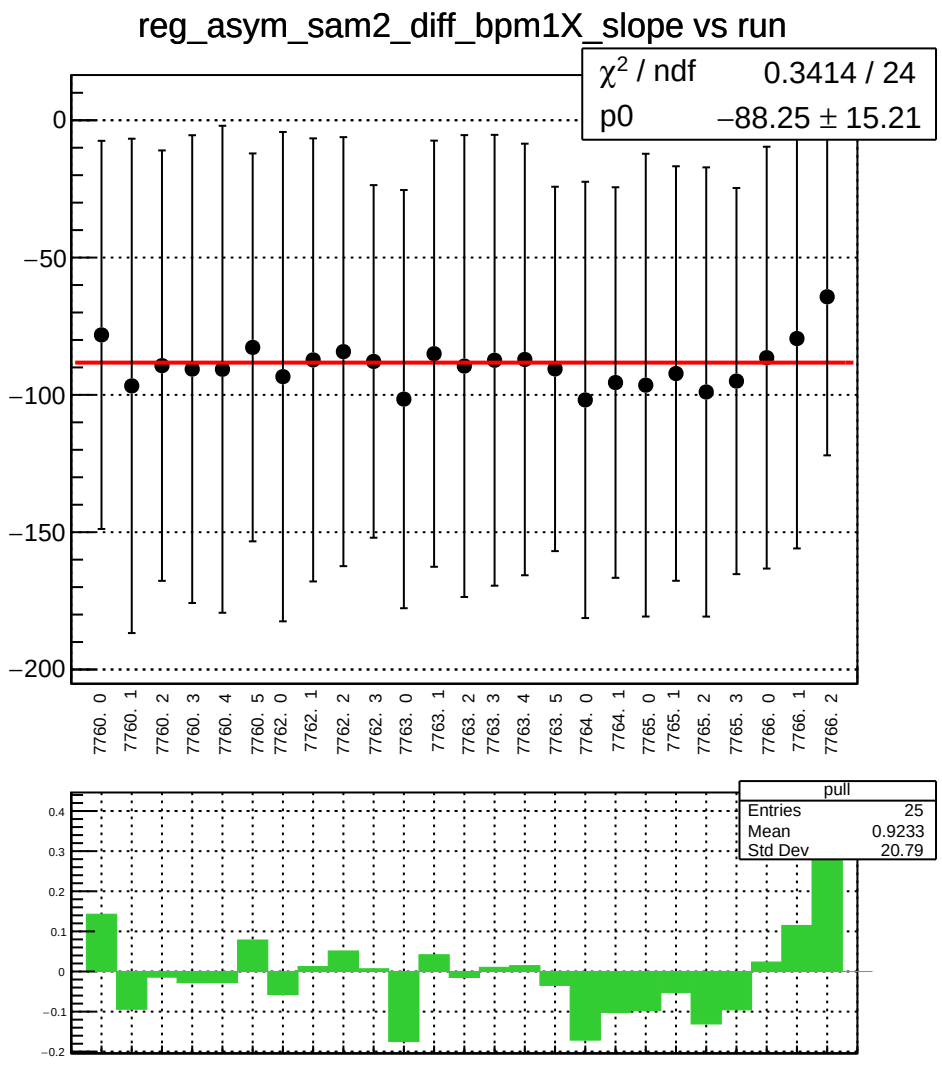

pull1D
Entries 25
Mean −0.003733
Std Dev 0.2196
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

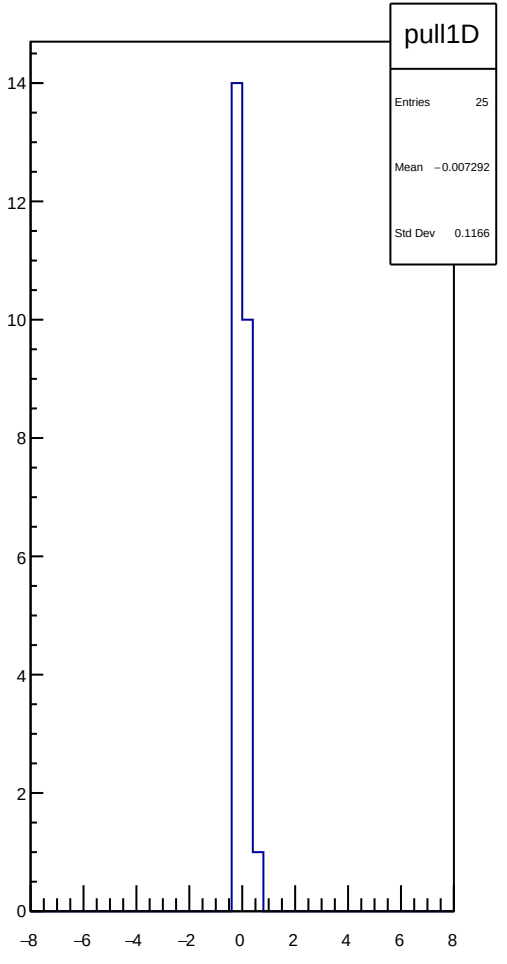

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 4.728 / 24
p0 28.68 ± 1.312
40
35
30
25
20
15
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −2364
Std Dev 2379
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

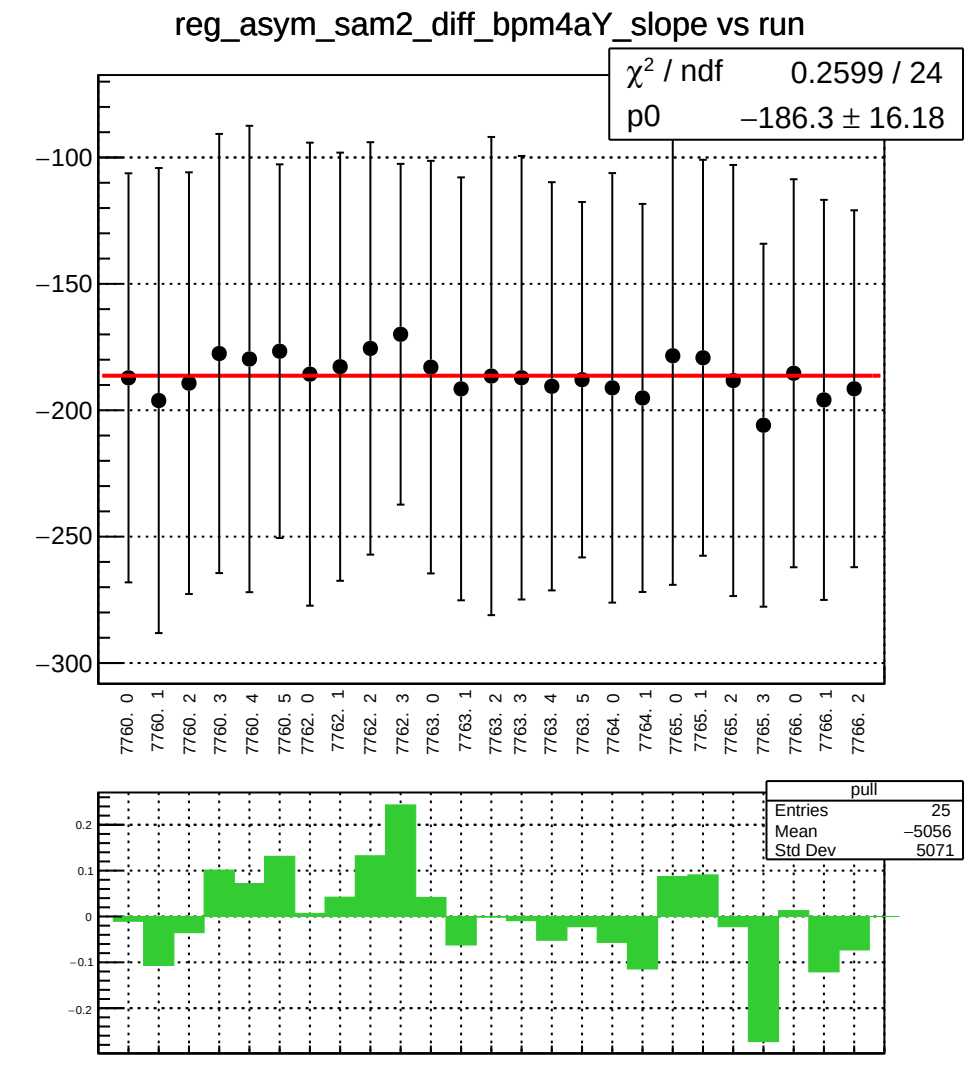

pull1D
Entries 25
Mean −0.0005184
Std Dev 0.4349
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

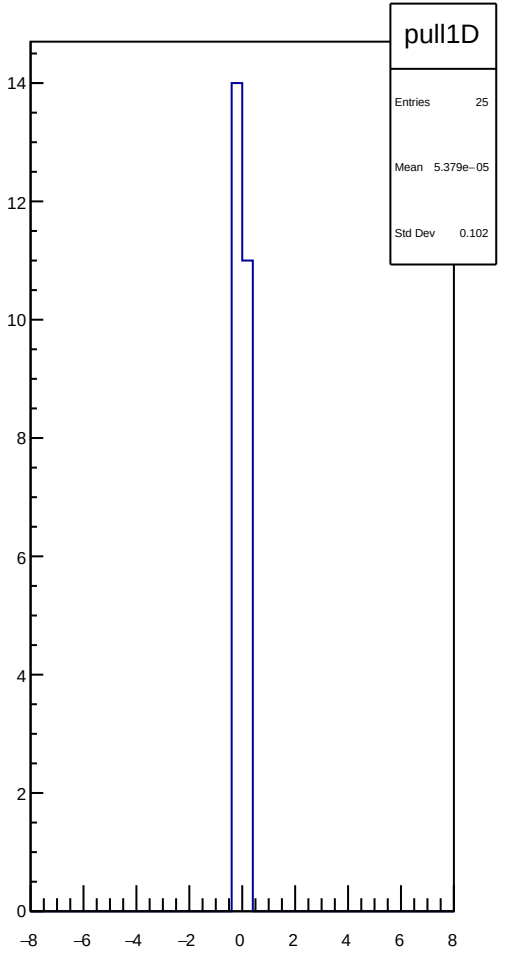

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 2.188 / 24
p0 0.3878 ± 0.03594
0.7
0.6
0.5
0.4
0.3
0.2
0.1
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 21.28
Std Dev 20.9
0.4
0.2
0
−0.2
−0.4
−0.6

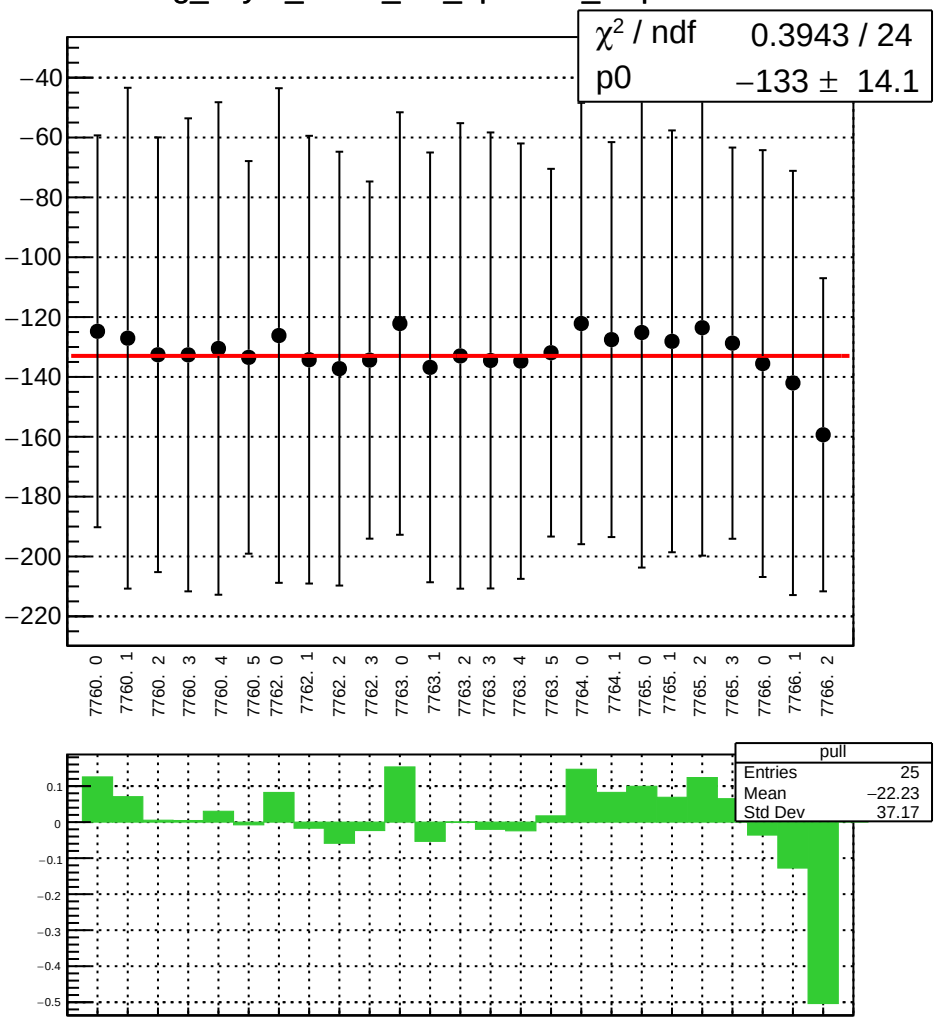

pull1D
Entries 25
Mean 0.00548
Std Dev 0.2958
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

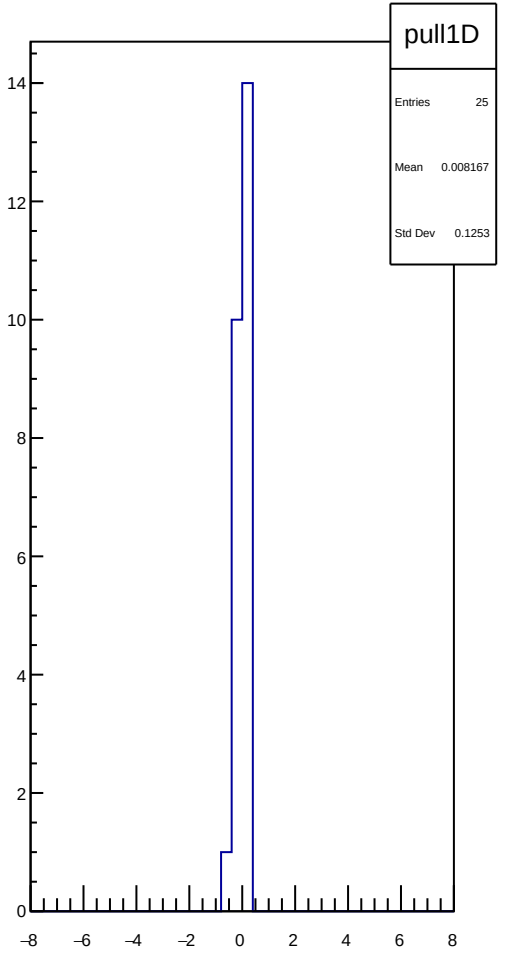

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 0.3414 / 24
p0 −88.25 ± 15.21
0
−50
−100
−150
−200
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 0.9233
Std Dev 20.79
0.4
0.3
0.2
0.1
0
−0.1
−0.2

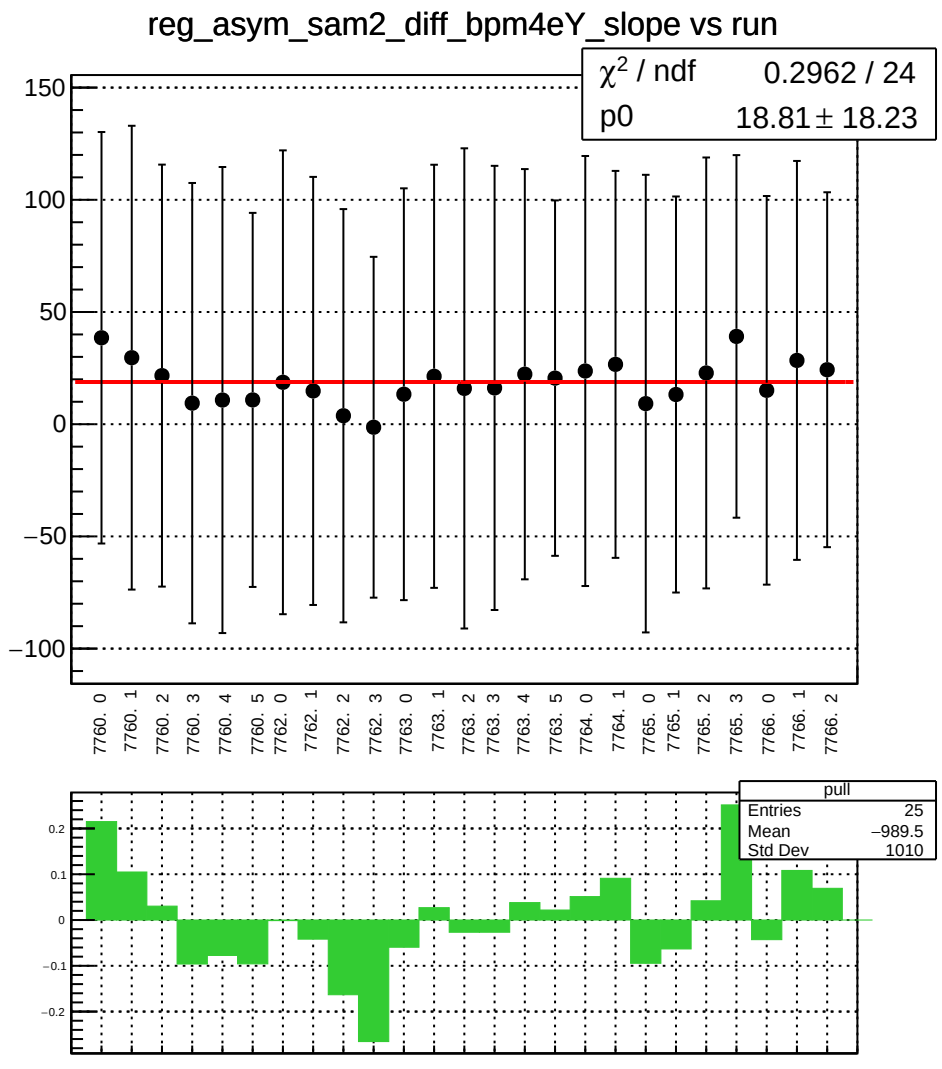

pull1D
Entries 25
Mean −0.007292
Std Dev 0.1166
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

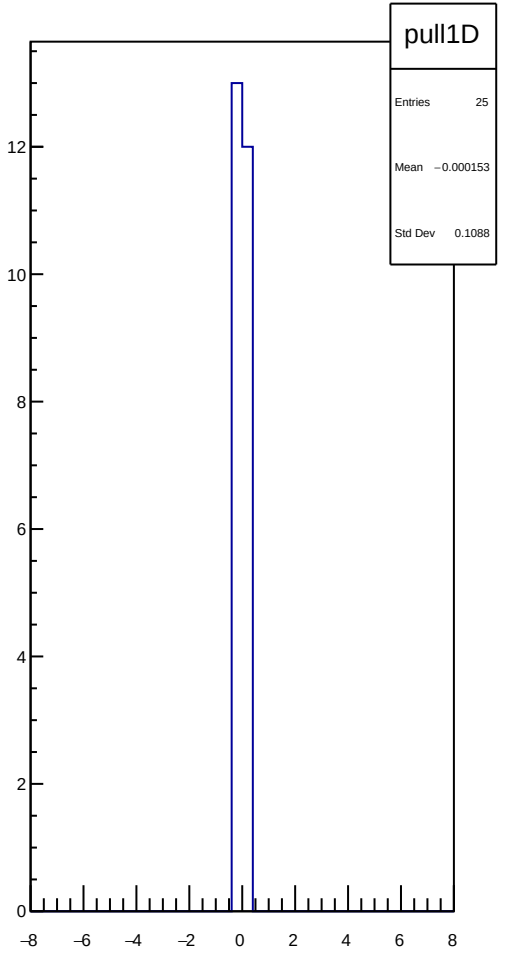

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 0.2599 / 24
p0 −186.3 ± 16.18
−100
−150
−200
−250
−300
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −5056
Std Dev 5071
0.2
0.1
0
−0.1
−0.2

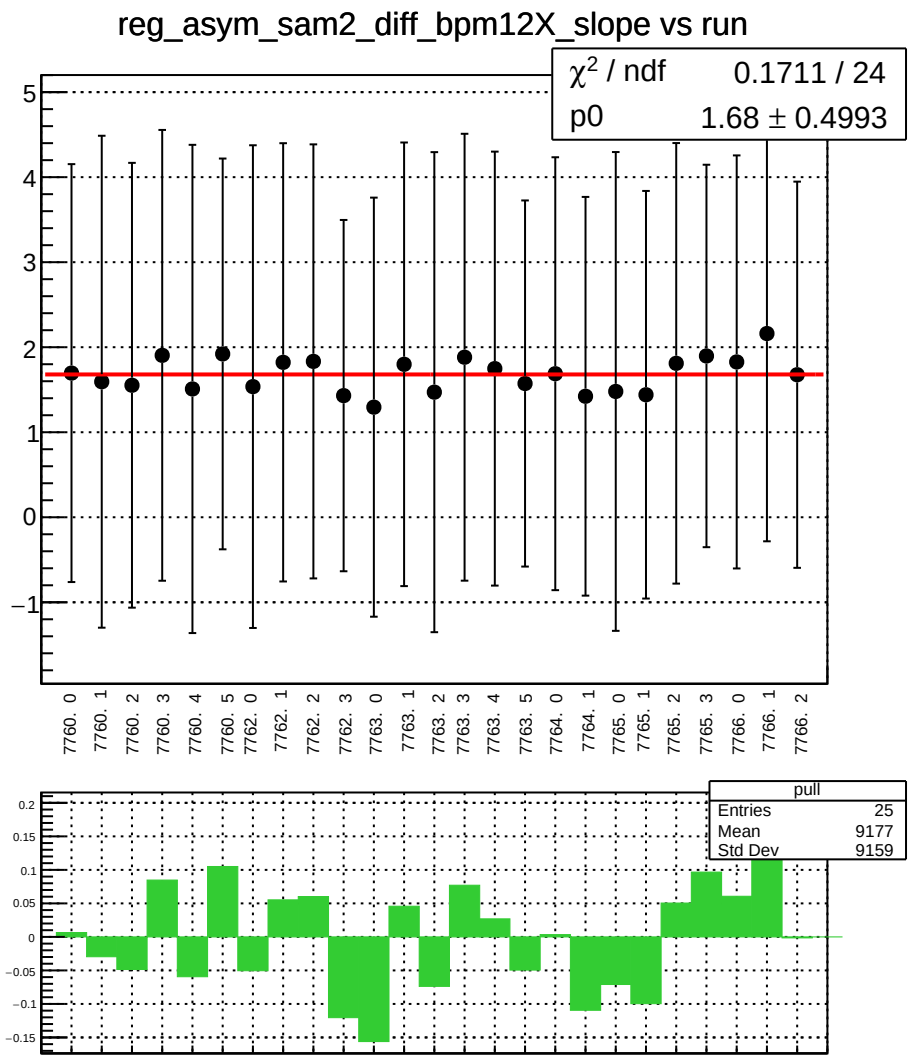

pull1D
Entries 25
Mean 5.379e−05
Std Dev 0.102
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

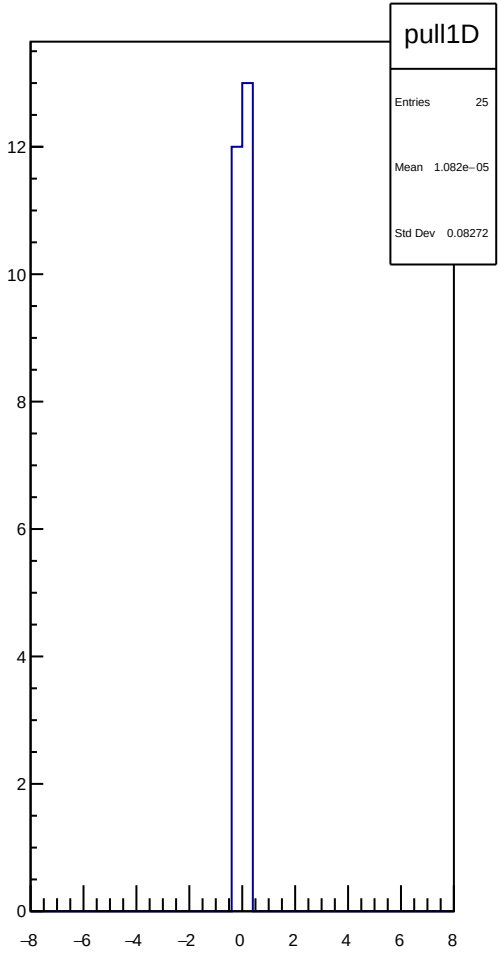

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 0.3943 / 24
p0 −133 ± 14.1
−40
−60
−80
−100
−120
−140
−160
−180
−200
−220
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −22.23
Std Dev 37.17
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5

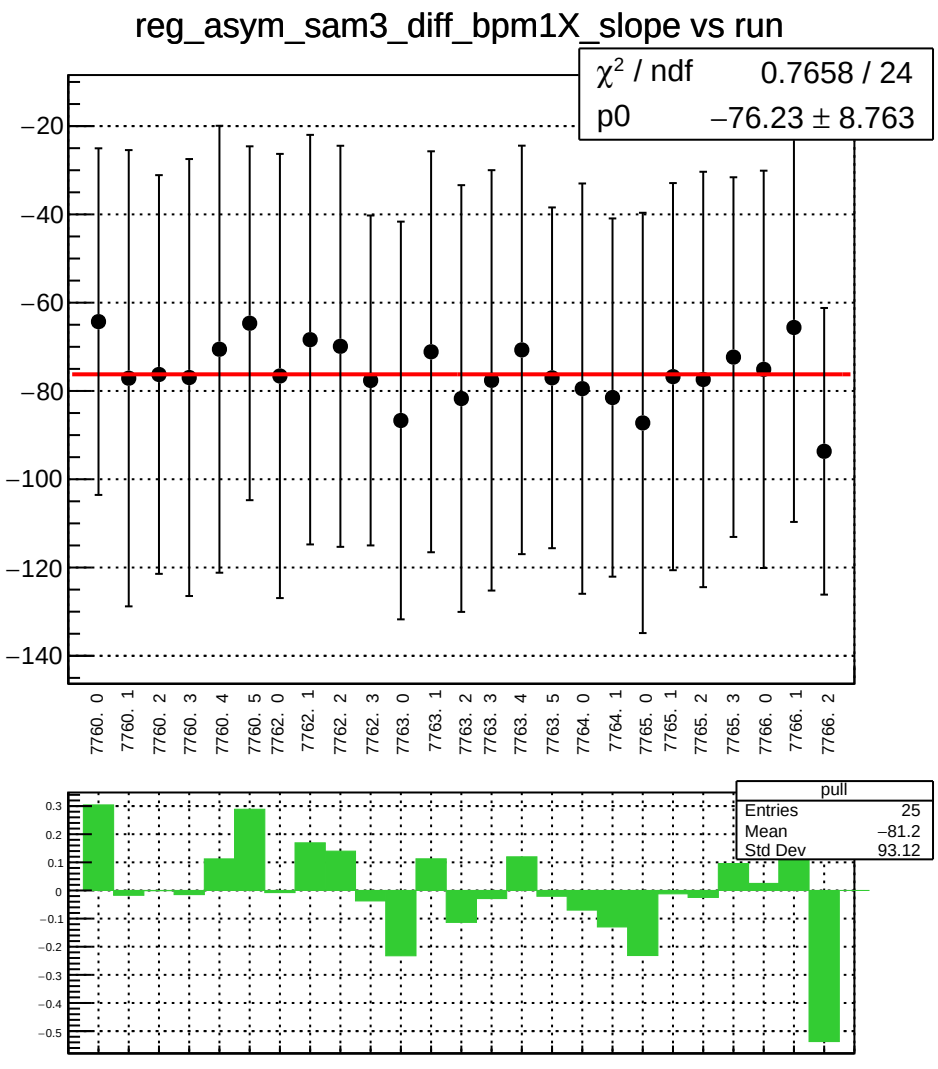

pull1D
Entries 25
Mean 0.008167
Std Dev 0.1253
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

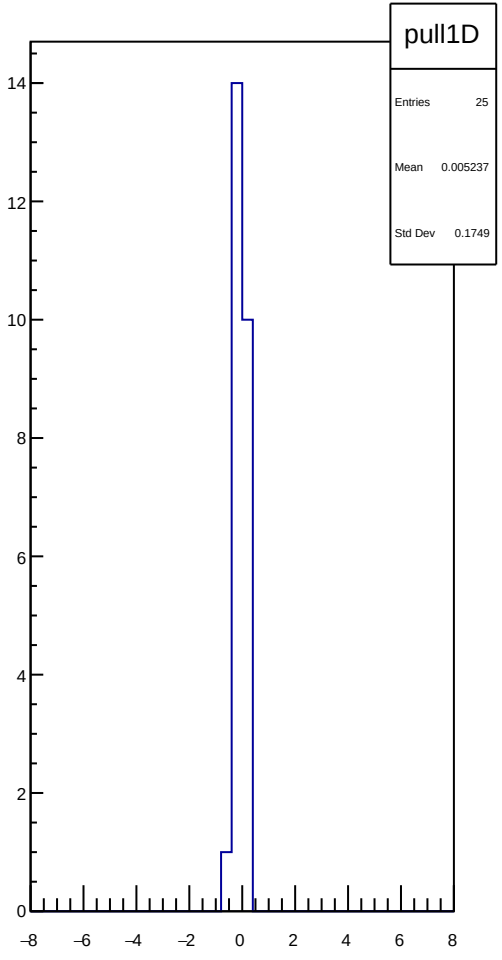

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 0.2962 / 24
p0 18.81 ± 18.23
150
100
50
0
−50
−100
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −989.5
Std Dev 1010
0.2
0.1
0
−0.1
−0.2

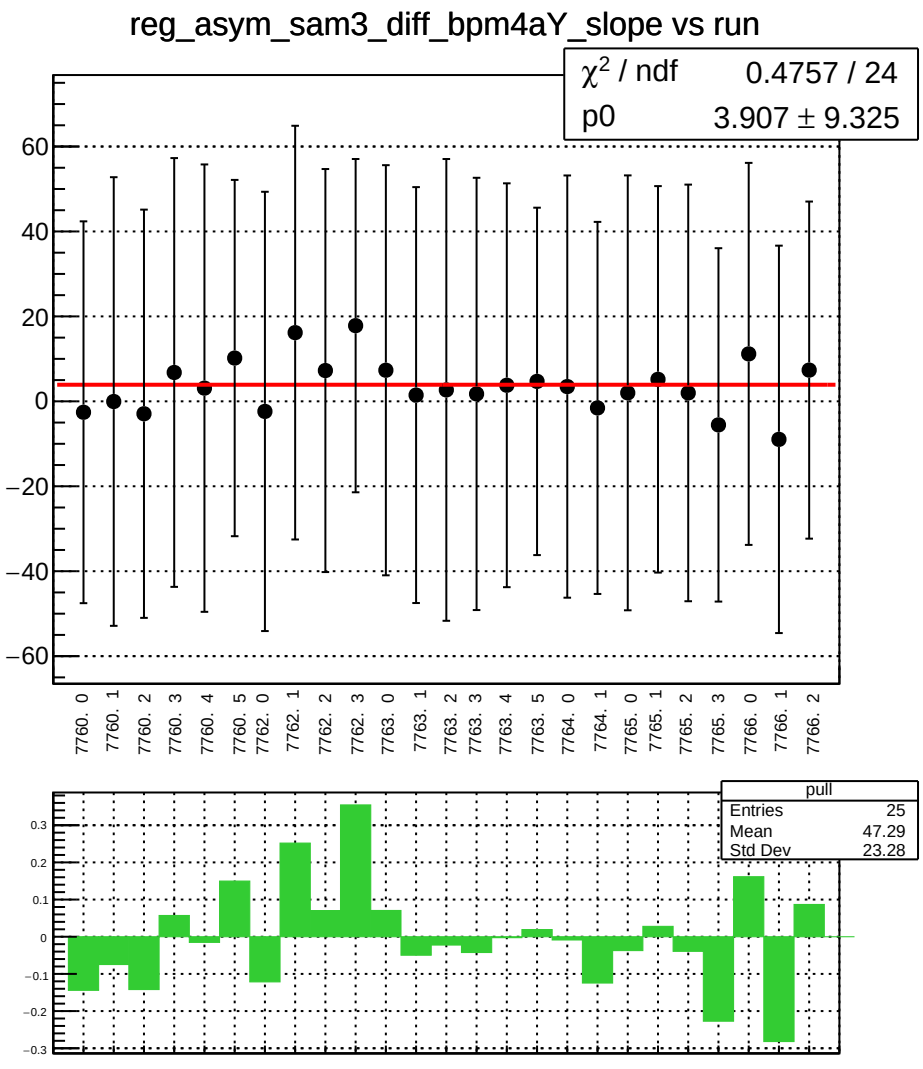

pull1D
Entries 25
Mean −0.000153
Std Dev 0.1088
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

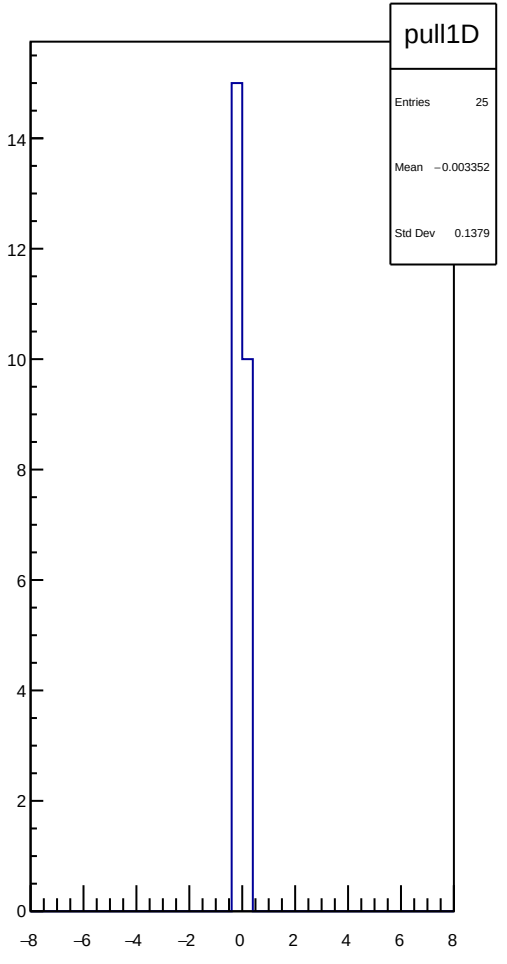

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 0.1711 / 24
p0 1.68 ± 0.4993
5
4
3
2
1
0
−1
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 9177
Std Dev 9159
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15

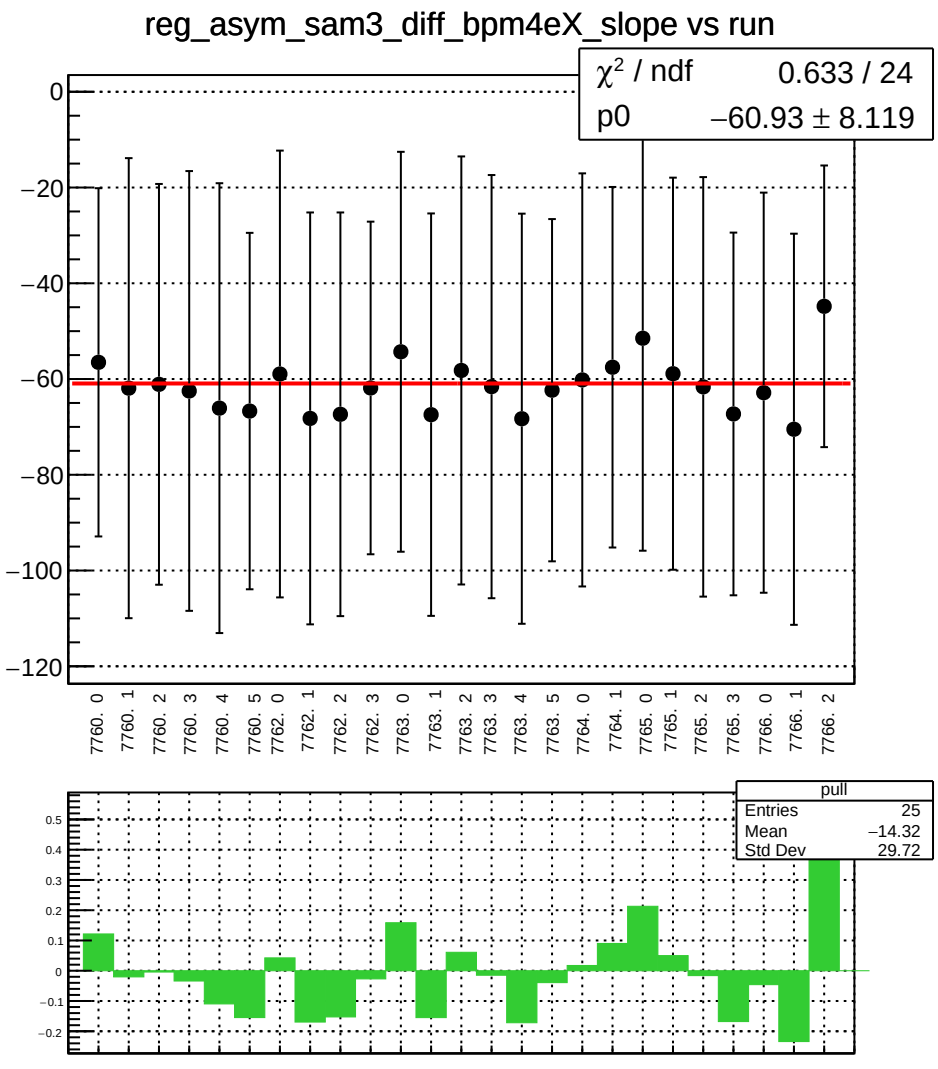

pull1D
Entries 25
Mean 1.082e−05
Std Dev 0.08272
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

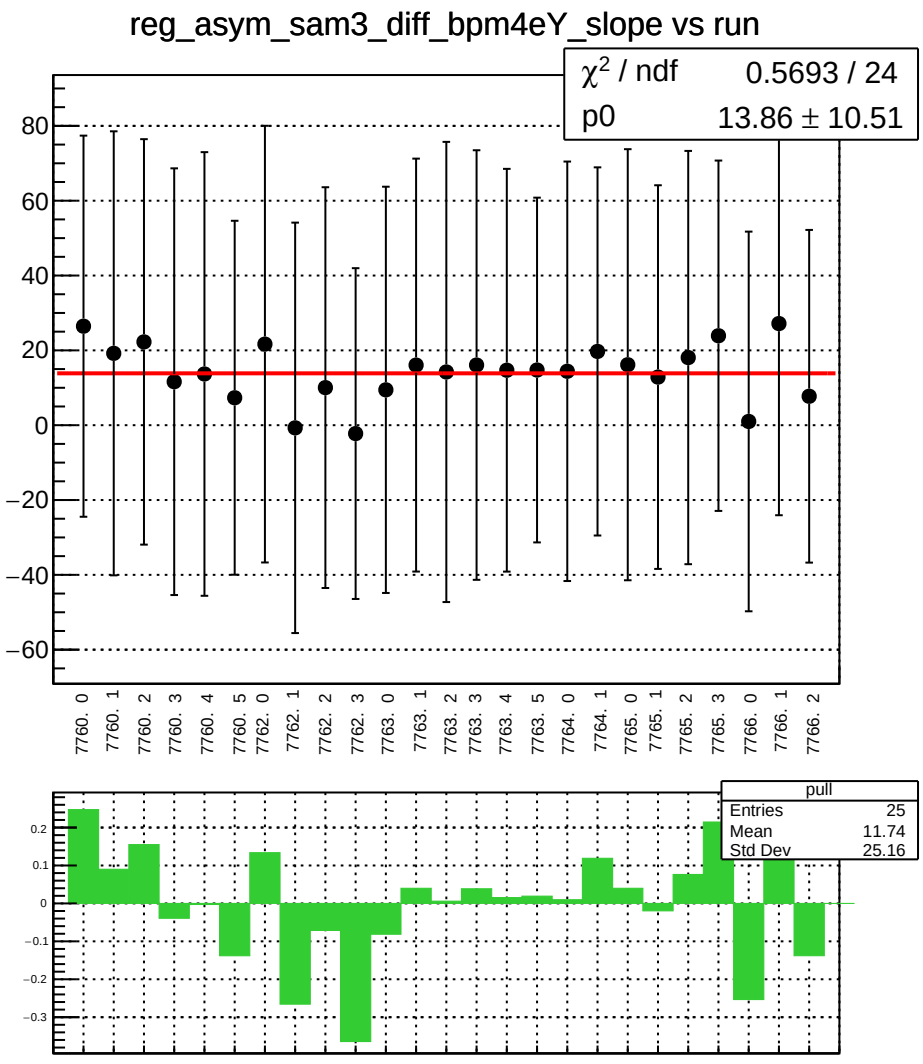

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 0.7658 / 24
p0 −76.23 ± 8.763
−20
−40
−60
−80
−100
−120
−140
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −81.2
Std Dev 93.12
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5

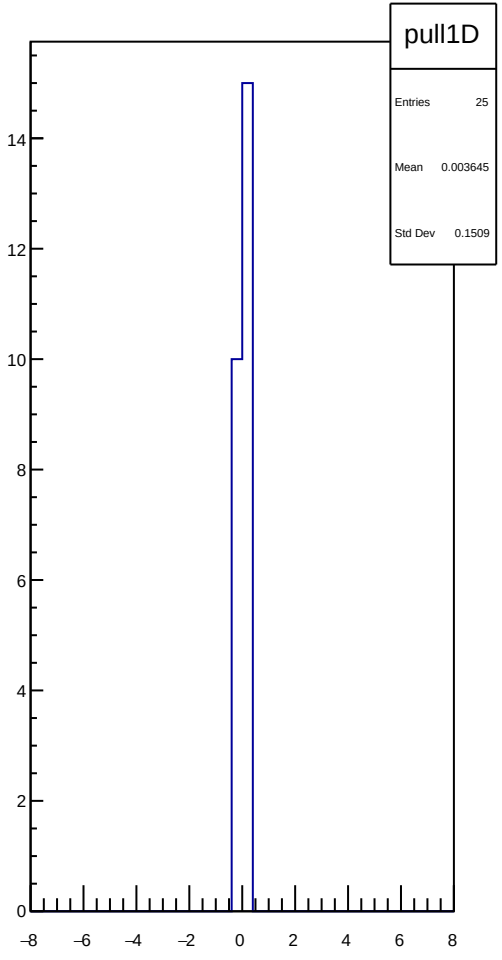

pull1D
Entries 25
Mean 0.005237
Std Dev 0.1749
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

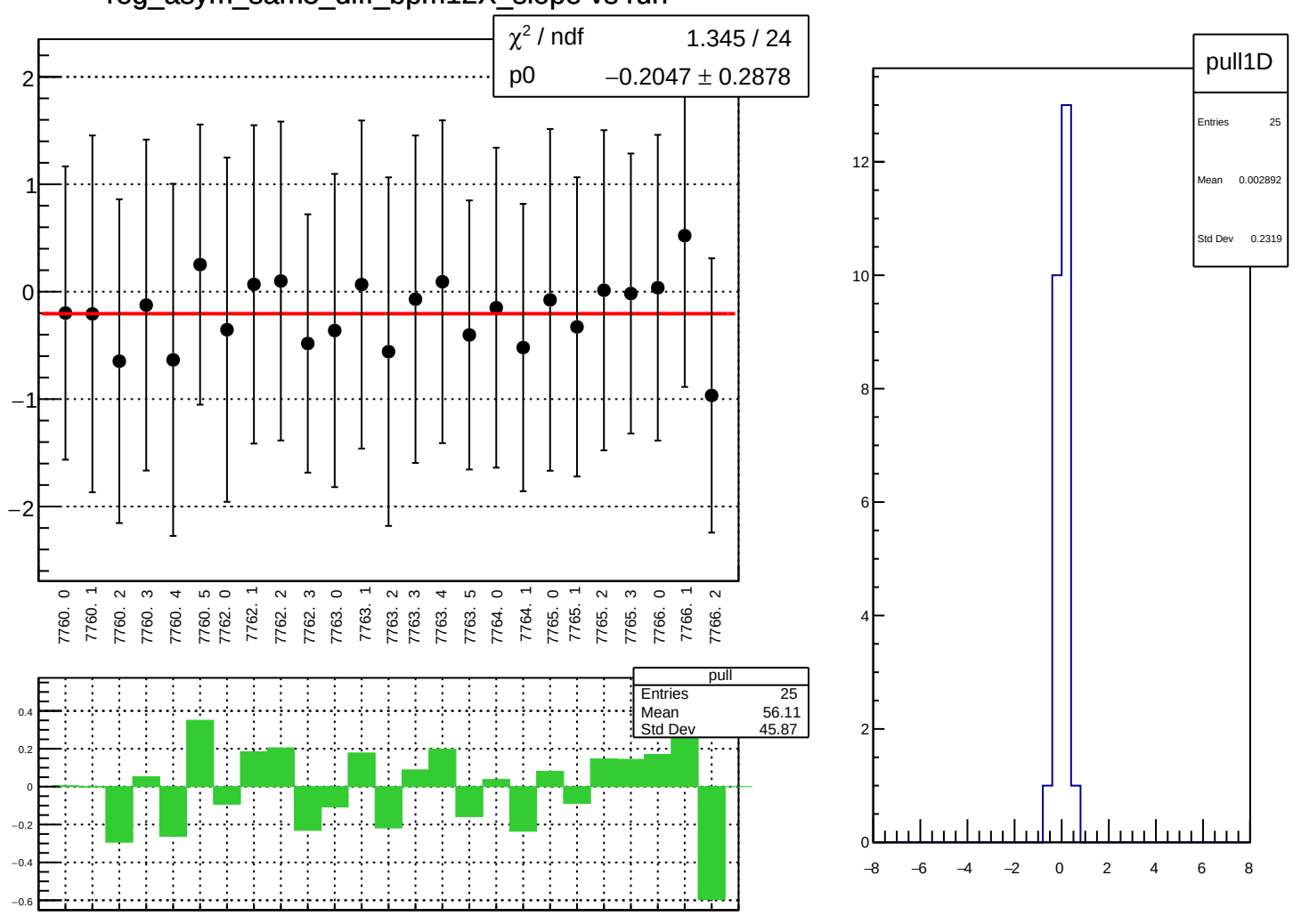

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 0.4757 / 24
p0 3.907 ± 9.325
60
40
20
0
−20
−40
−60
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 47.29
Std Dev 23.28
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

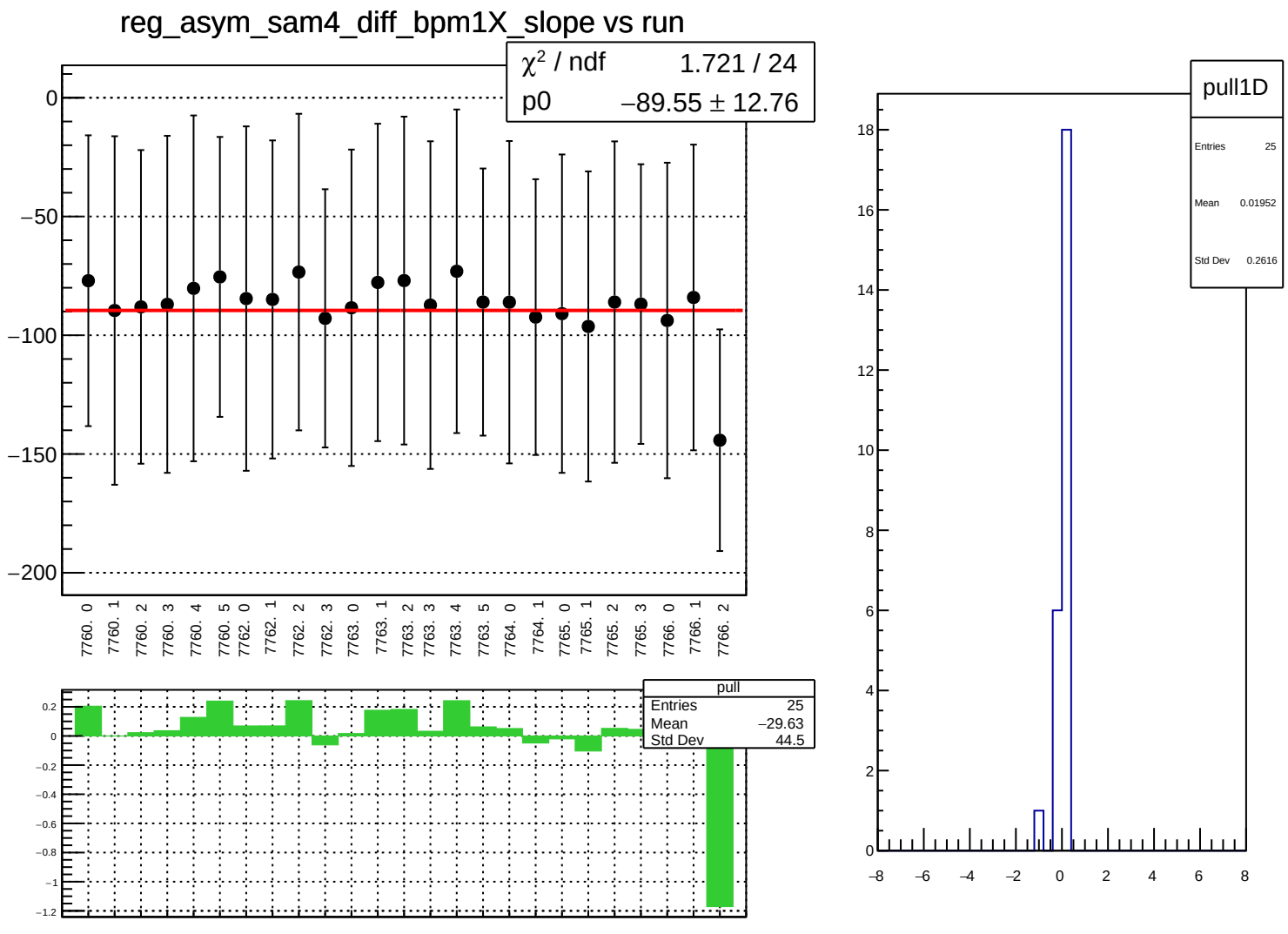

pull1D
Entries 25
Mean −0.003352
Std Dev 0.1379
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

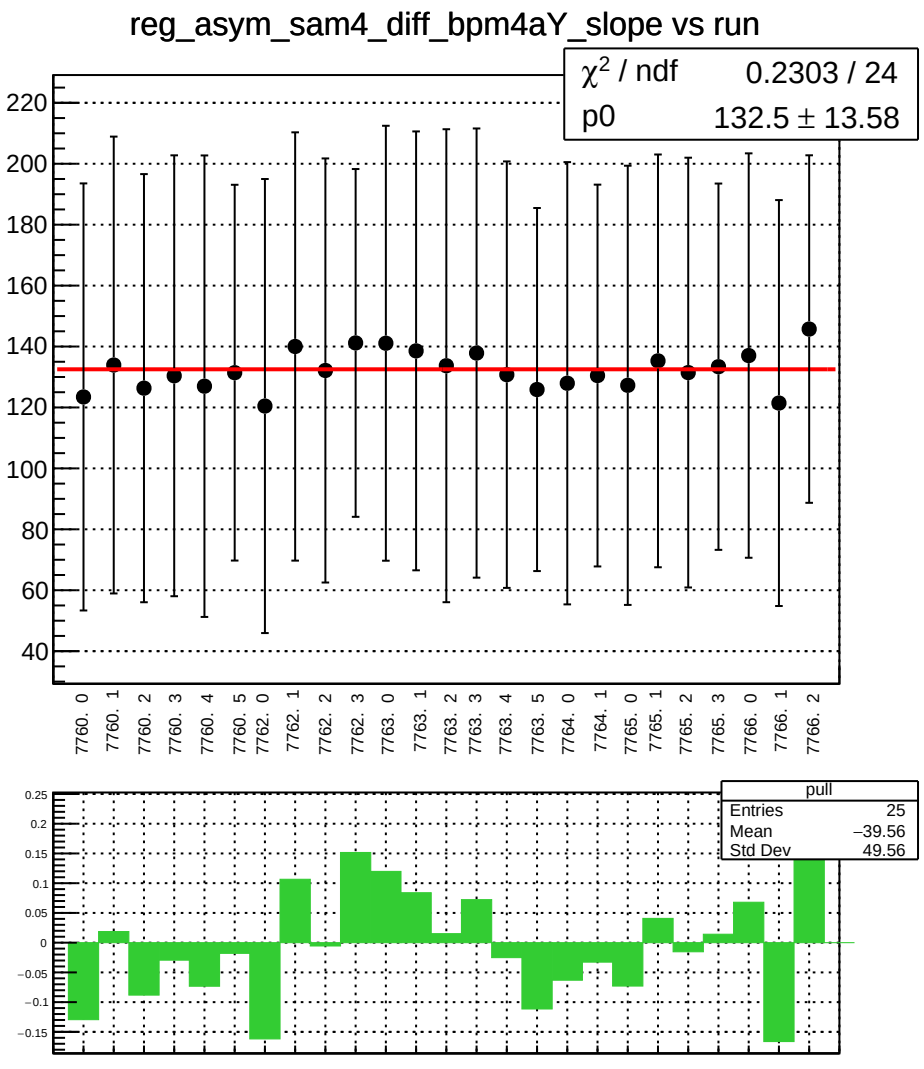

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 0.633 / 24
p0 −60.93 ± 8.119
0
−20
−40
−60
−80
−100
−120
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −14.32
Std Dev 29.72
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 25
Mean −0.008604
Std Dev 0.1589
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

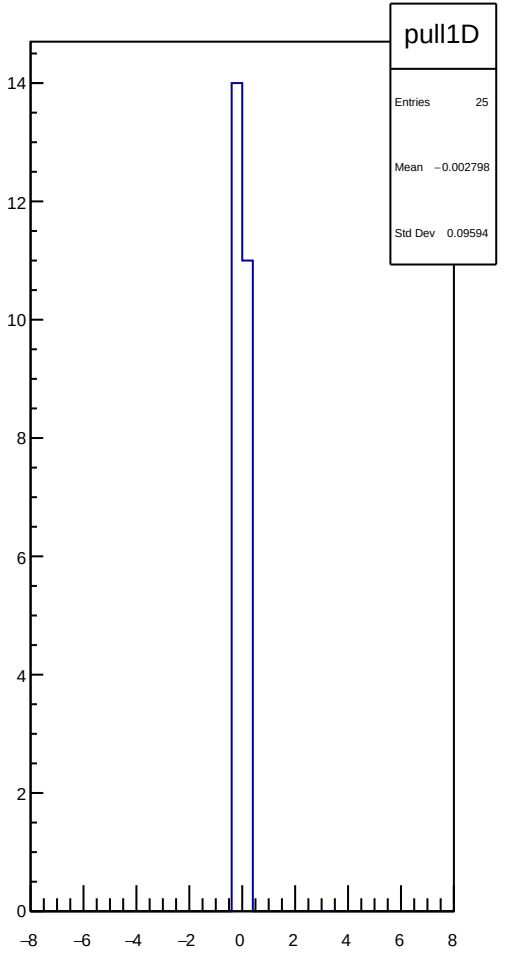

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 0.5693 / 24
p0 13.86 ± 10.51
80
60
40
20
0
−20
−40
−60
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 11.74
Std Dev 25.16
0.2
0.1
0
−0.1
−0.2
−0.3

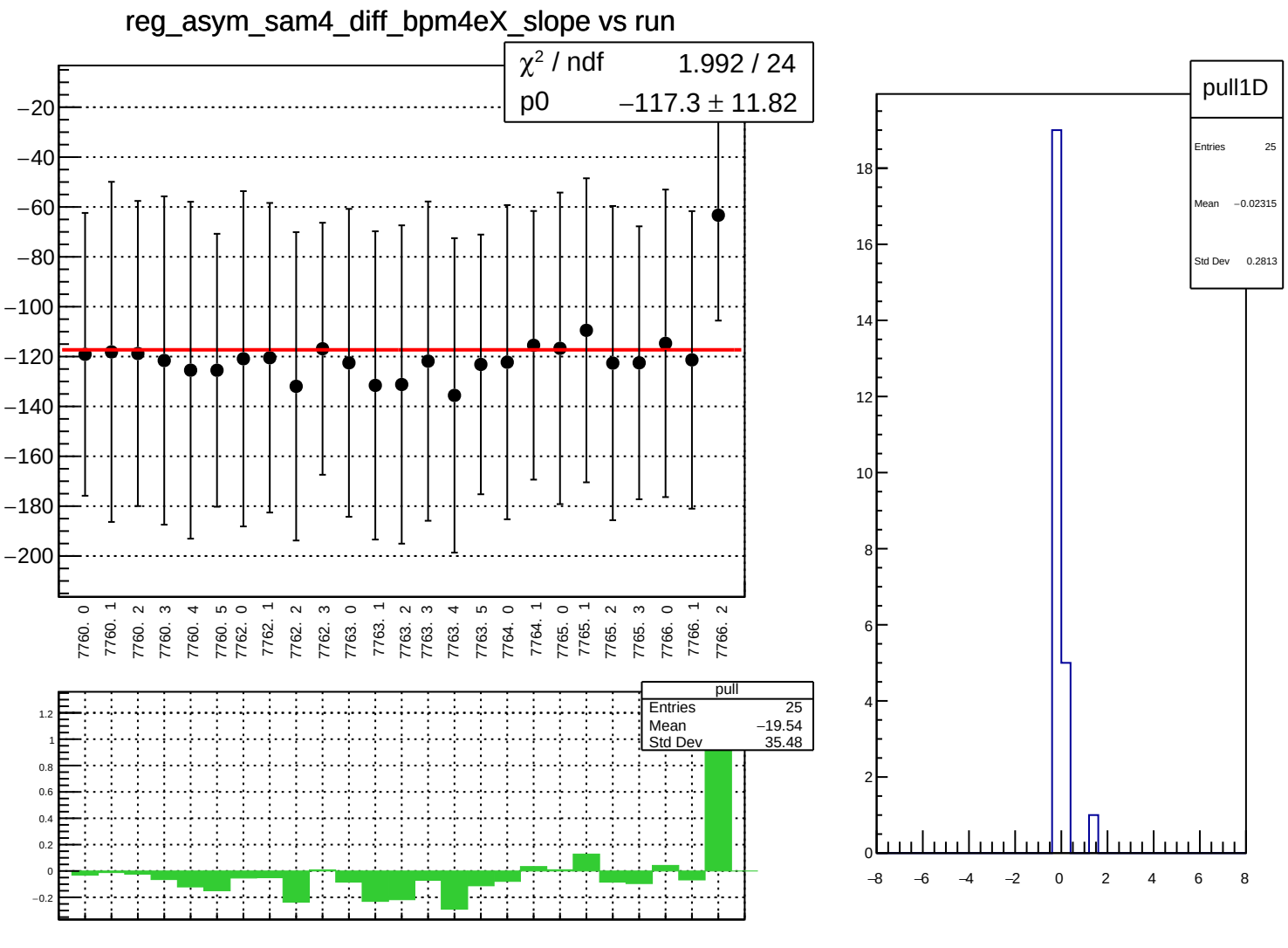

pull1D
Entries 25
Mean 0.003645
Std Dev 0.1509
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

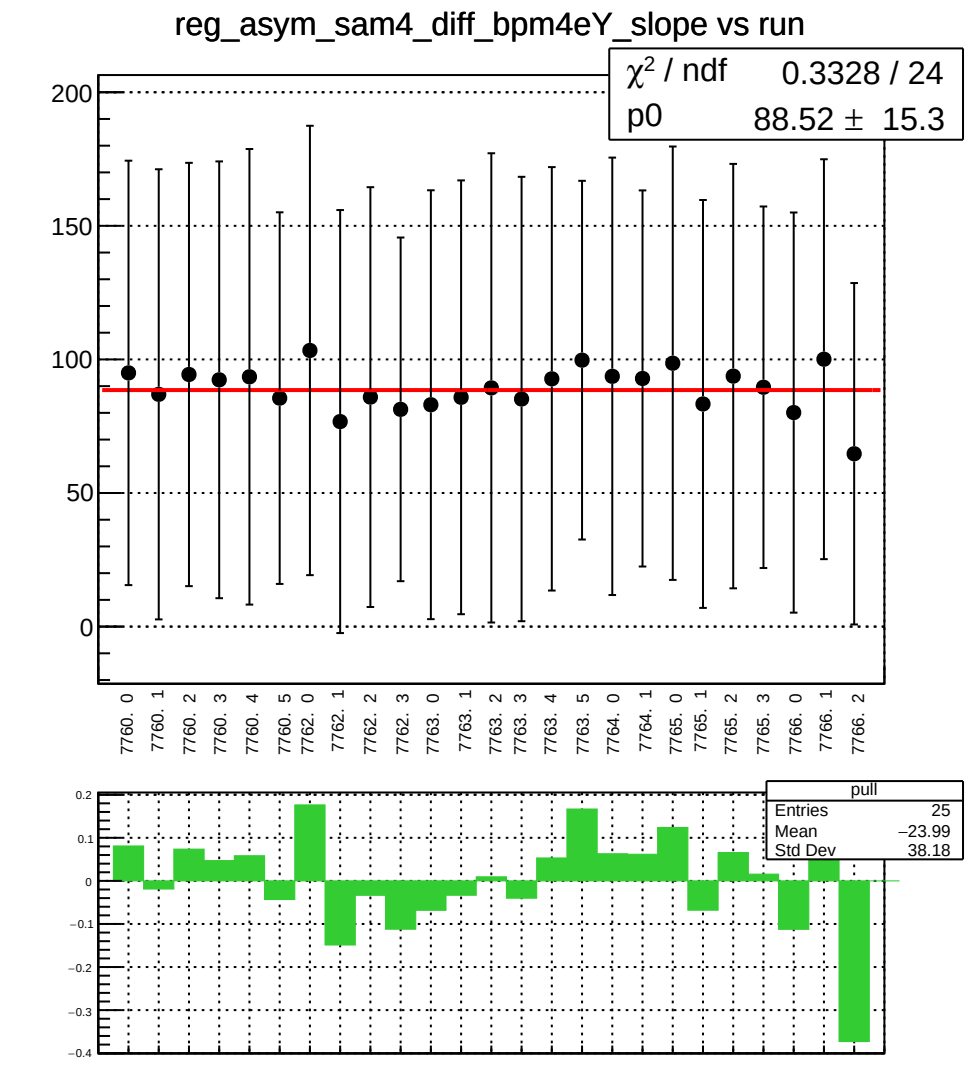

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 1.345 / 24
p0 −0.2047 ± 0.2878
2
1
0
−1
−2
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 56.11
Std Dev 45.87
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 25
Mean 0.002892
Std Dev 0.2319
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

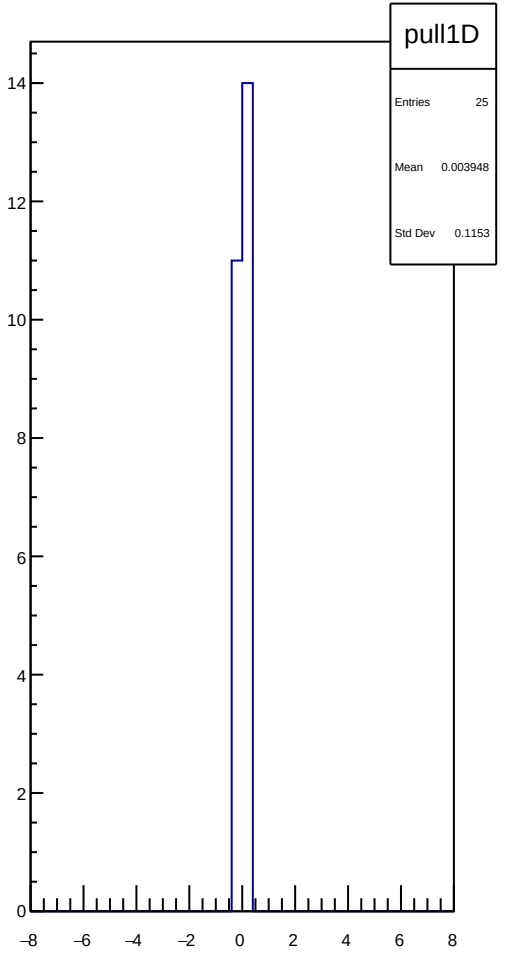

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 1.721 / 24
p0 −89.55 ± 12.76
0
−50
−100
−150
−200
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −29.63
Std Dev 44.5
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 25
Mean 0.01952
Std Dev 0.2616
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

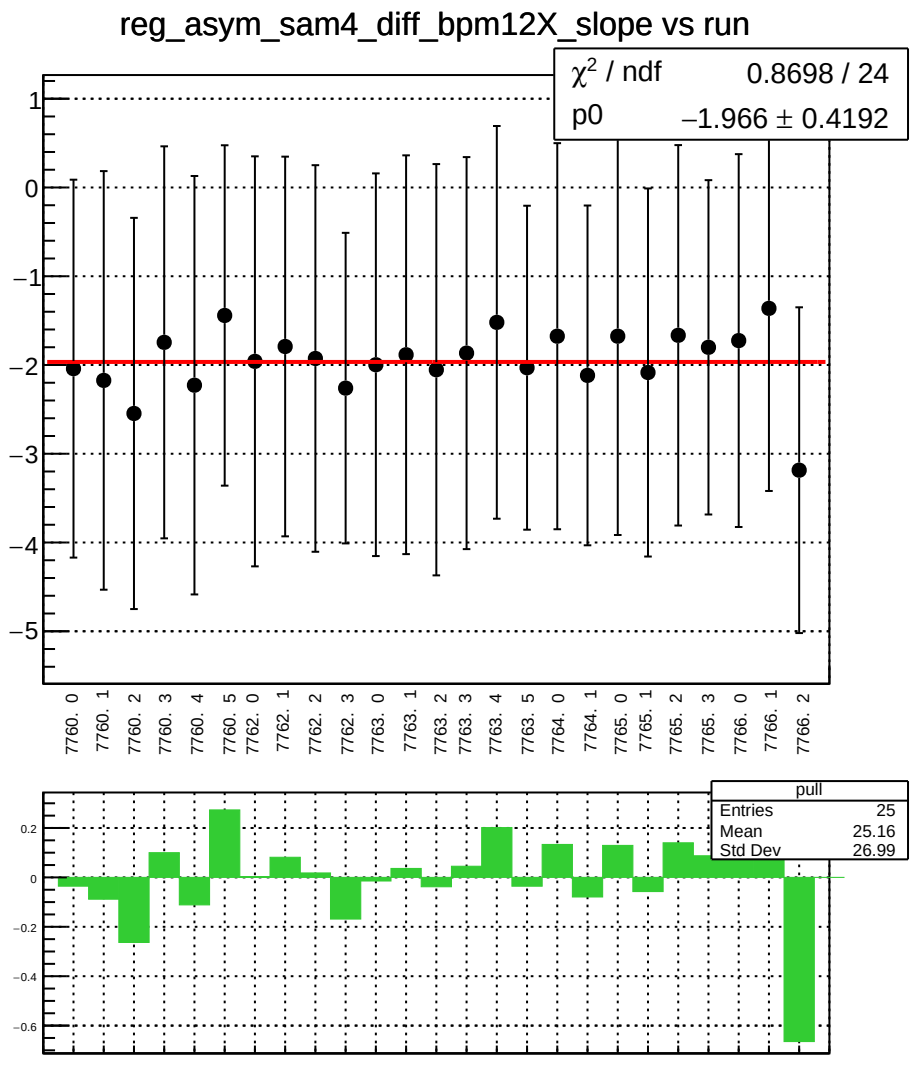

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 0.2303 / 24
p0 132.5 ± 13.58
220
200
180
160
140
120
100
80
60
40
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −39.56
Std Dev 49.56
0.25
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15

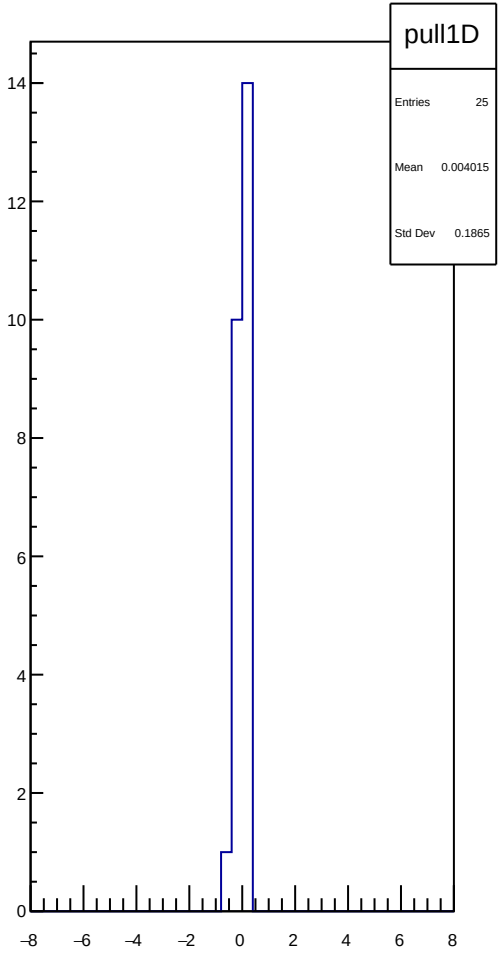

pull1D
Entries 25
Mean −0.002798
Std Dev 0.09594
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

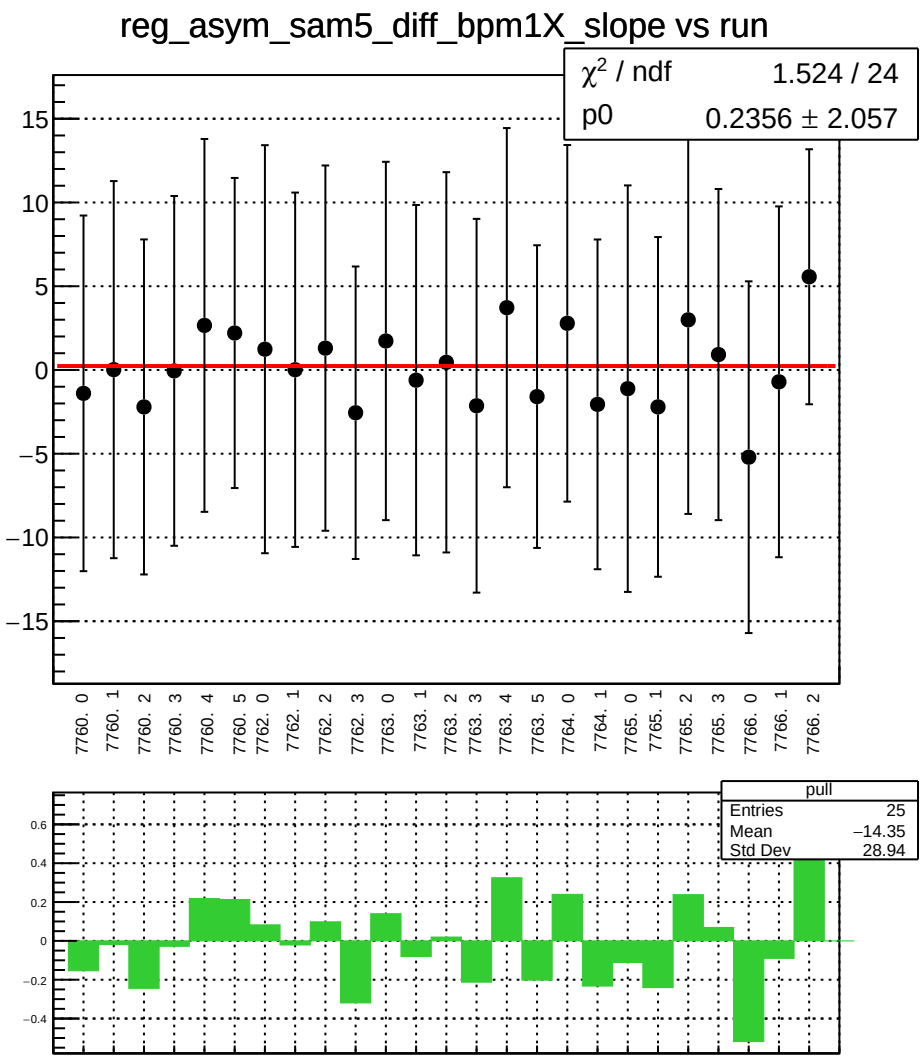

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 1.992 / 24
p0 −117.3 ± 11.82
−20
−40
−60
−80
−100
−120
−140
−160
−180
−200
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −19.54
Std Dev 35.48
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
pull1D
Entries 25
Mean −0.02315
Std Dev 0.2813
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

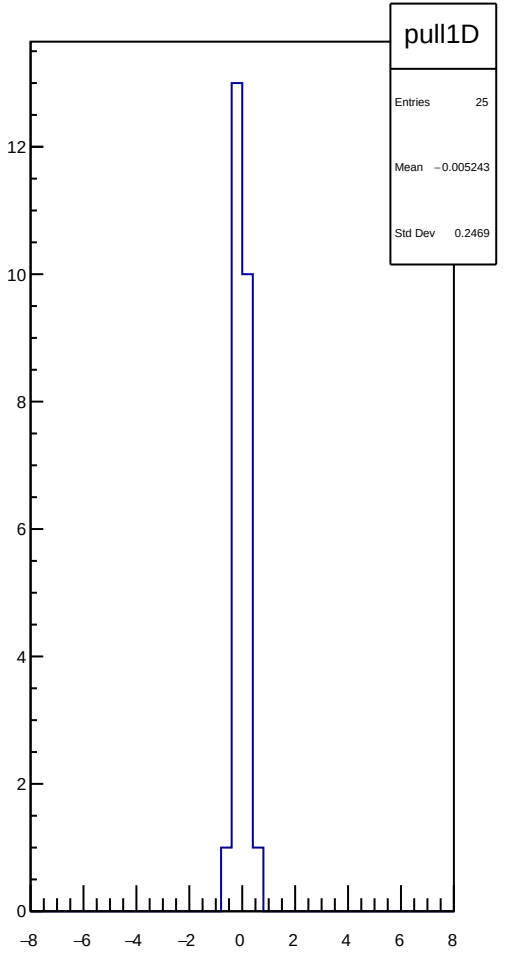

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 0.3328 / 24
p0 88.52 ± 15.3
200
150
100
50
0
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −23.99
Std Dev 38.18
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

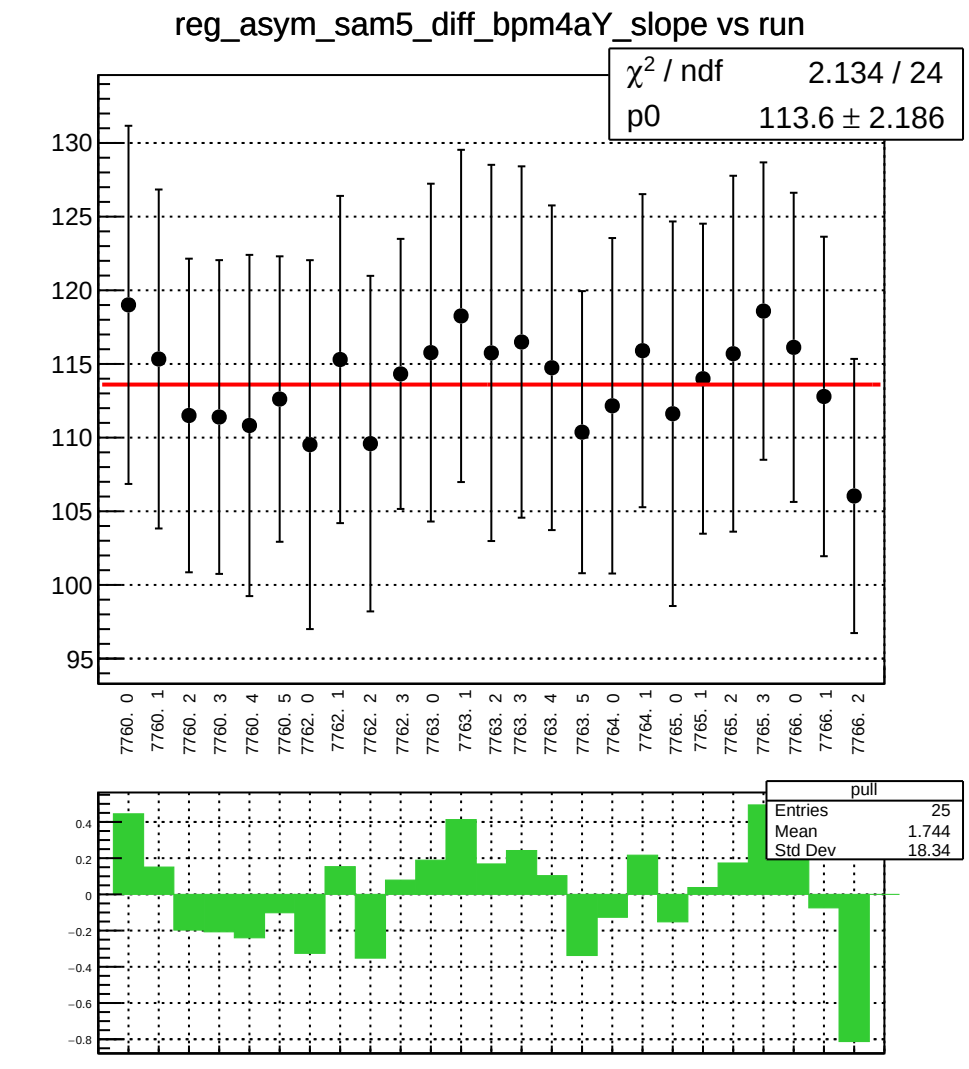

pull1D
Entries 25
Mean 0.003948
Std Dev 0.1153
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

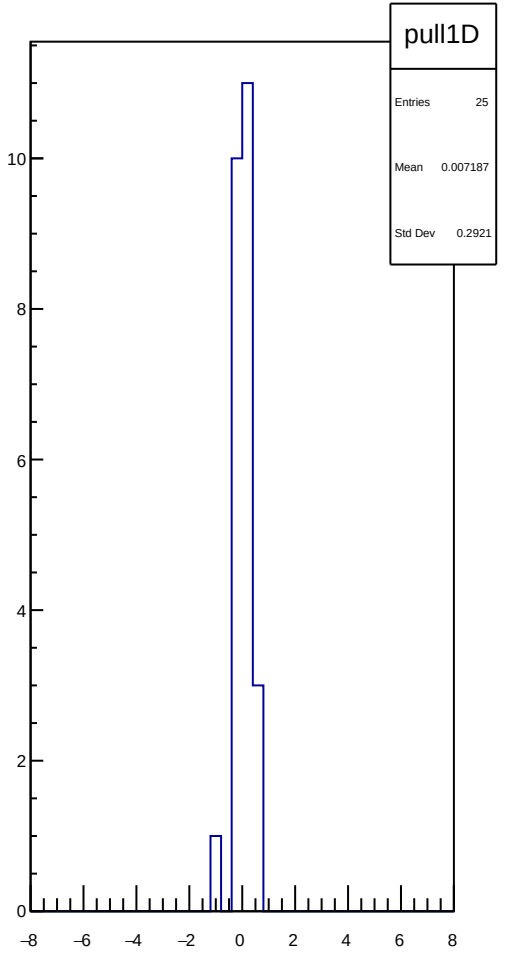

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 0.8698 / 24
p0 −1.966 ± 0.4192
pull
Entries 25
Mean 25.16
Std Dev 26.99

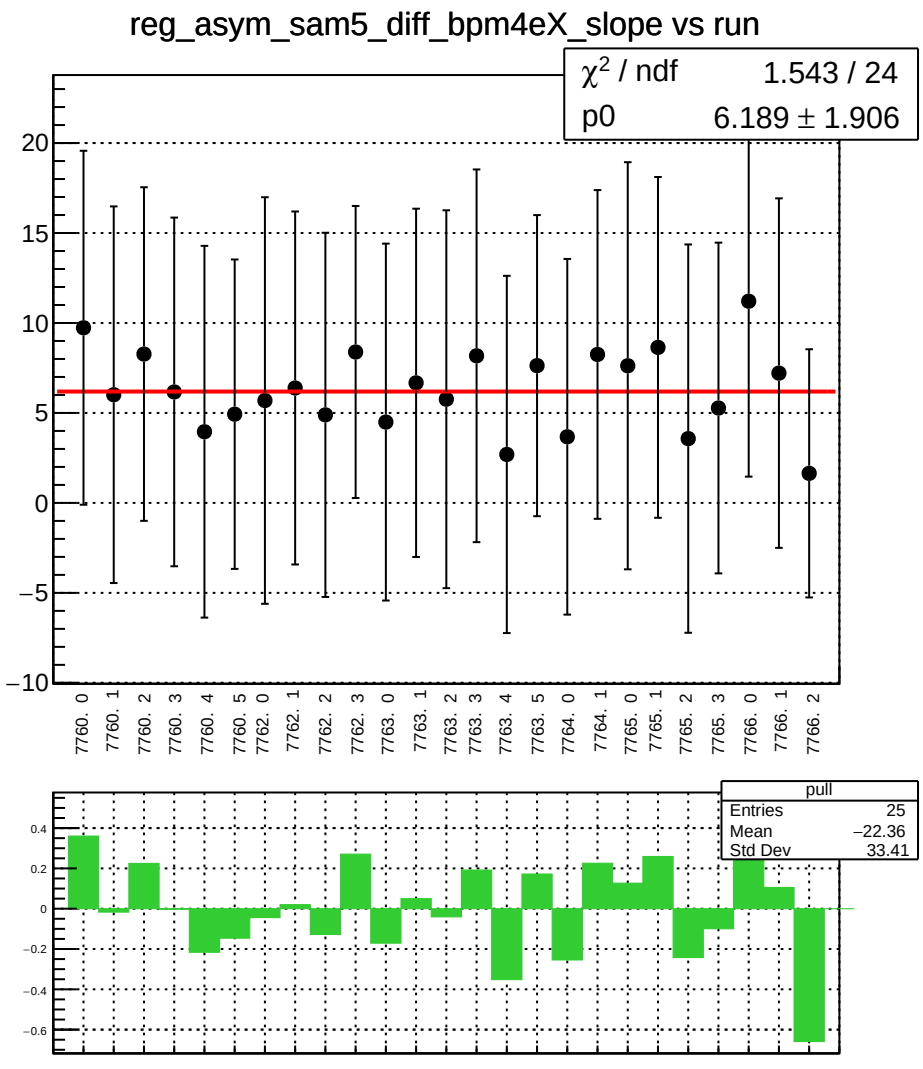

pull1D
Entries 25
Mean 0.004015
Std Dev 0.1865

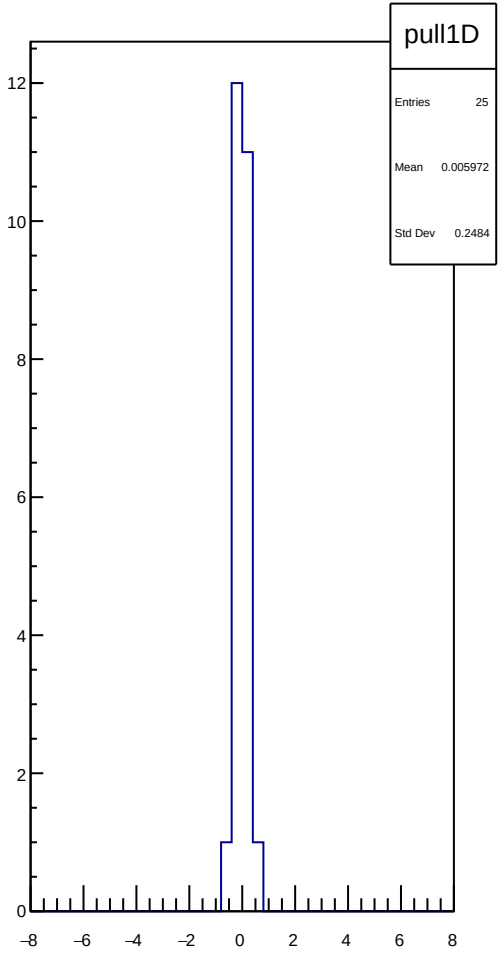

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 1.524 / 24
p0 0.2356 ± 2.057
15
10
5
0
−5
−10
−15
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −14.35
Std Dev 28.94
0.6
0.4
0.2
0
−0.2
−0.4

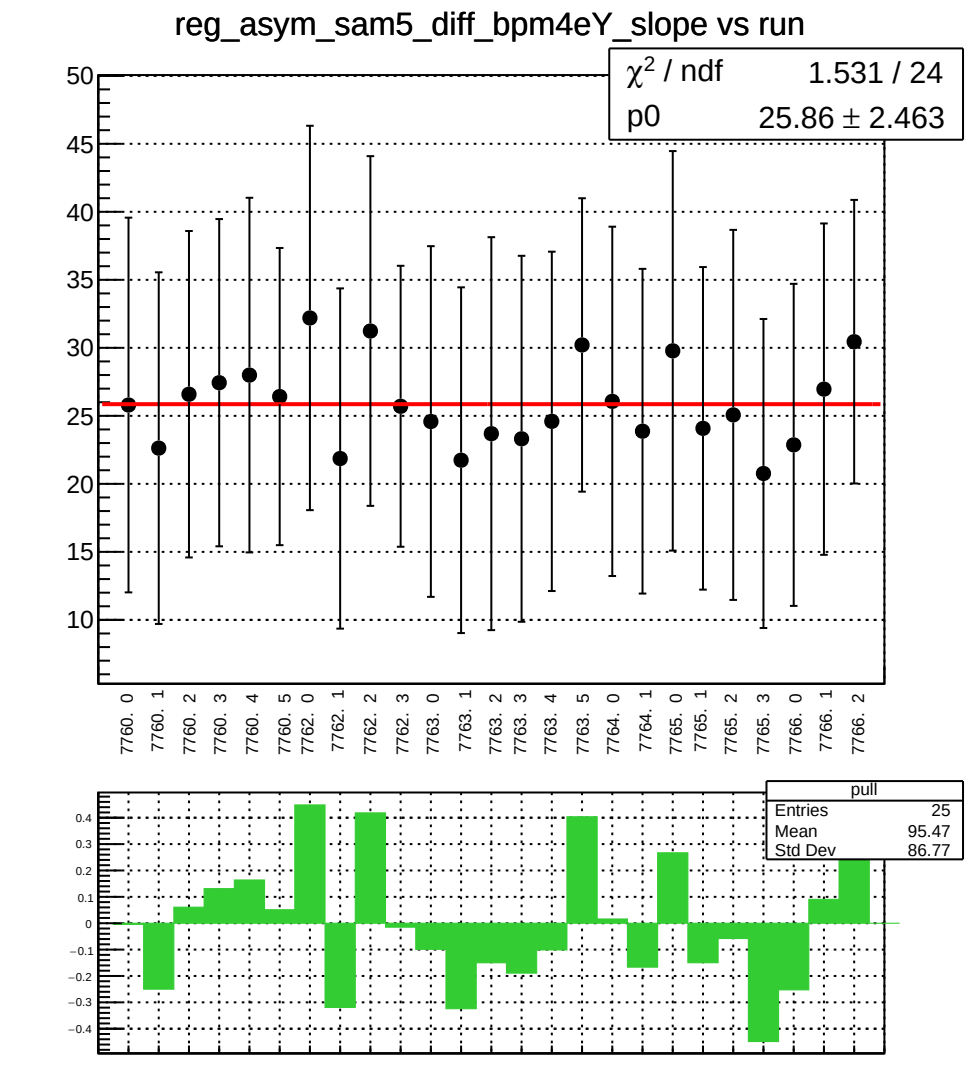

pull1D
Entries 25
Mean −0.005243
Std Dev 0.2469
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

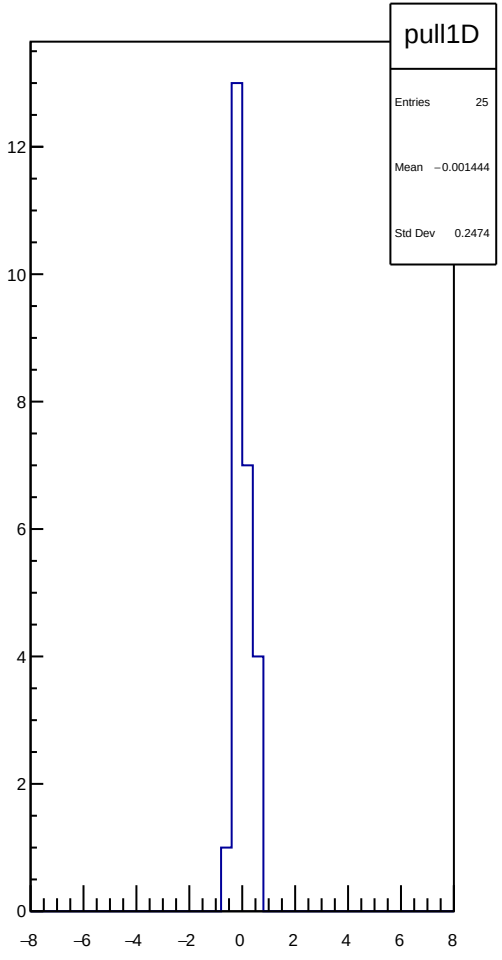

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 2.134 / 24
p0 113.6 ± 2.186
130
125
120
115
110
105
100
95
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 1.744
Std Dev 18.34
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

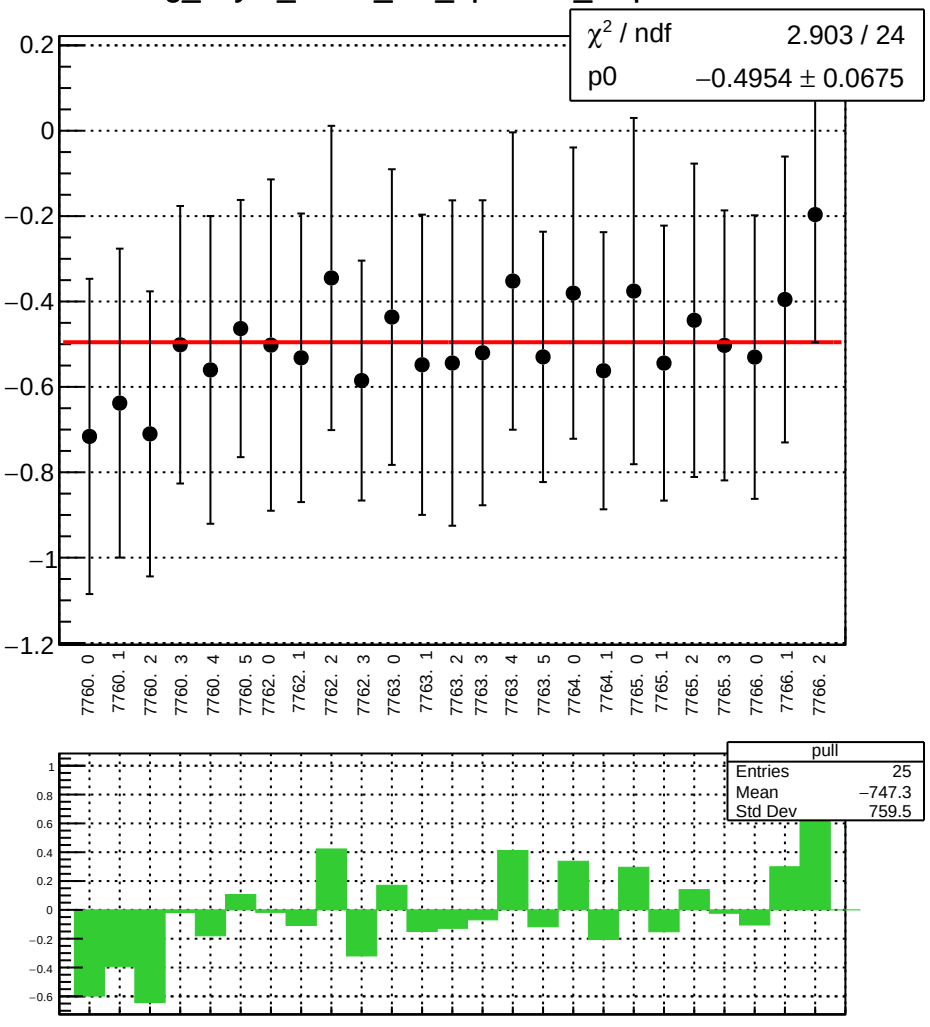

pull1D
Entries 25
Mean 0.007187
Std Dev 0.2921
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

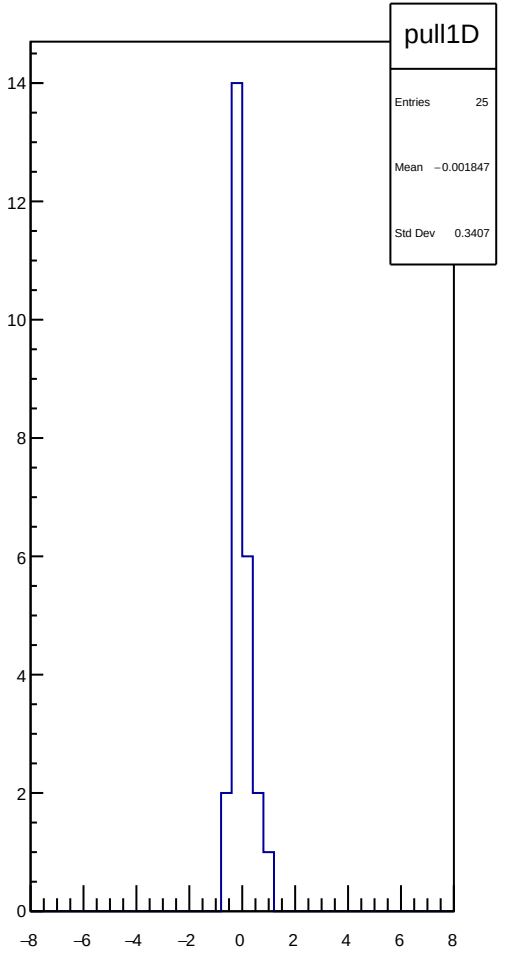

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 1.543 / 24
p0 6.189 ± 1.906
20
15
10
5
0
−5
−10
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −22.36
Std Dev 33.41
0.4
0.2
0
−0.2
−0.4
−0.6

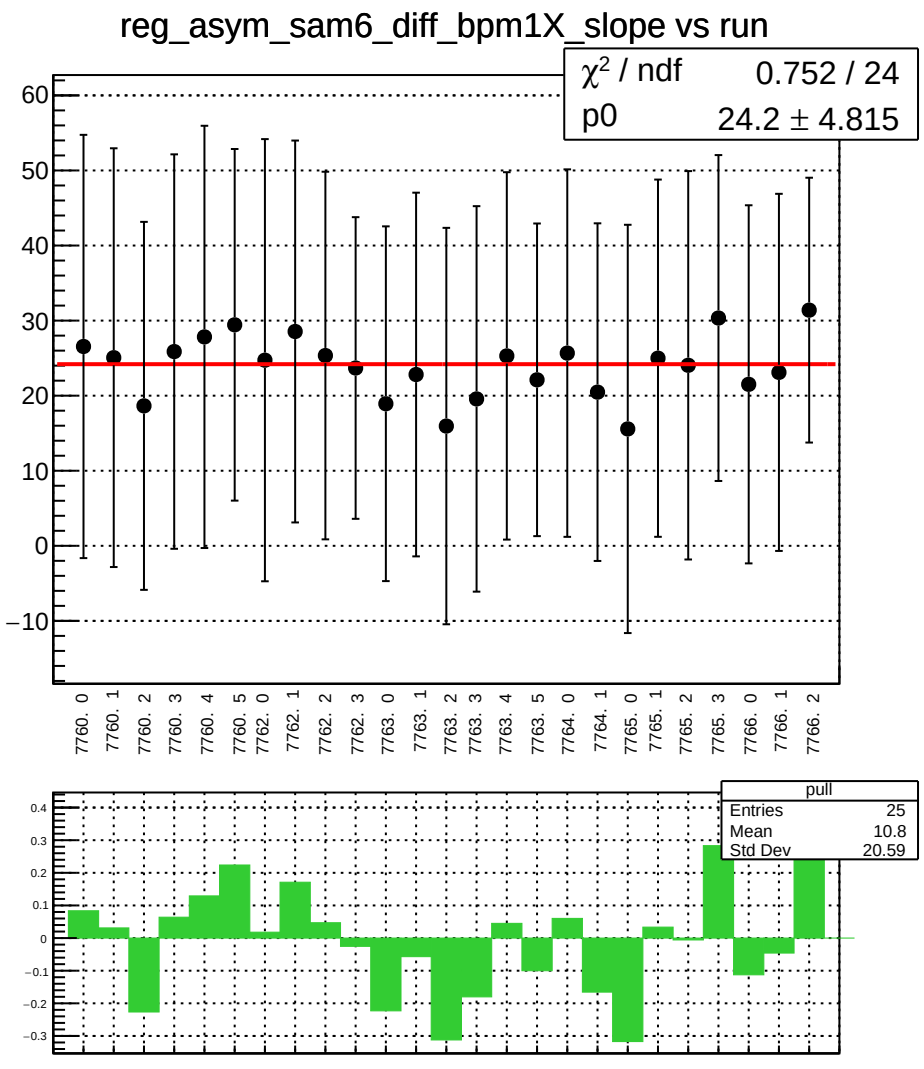

pull1D
Entries 25
Mean 0.005972
Std Dev 0.2484
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

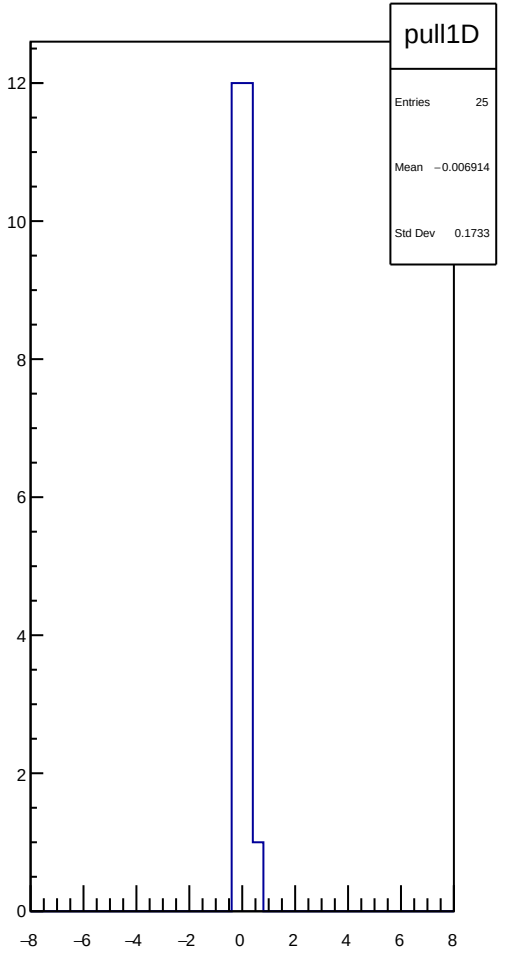

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 1.531 / 24
p0 25.86 ± 2.463
pull
Entries 25
Mean 95.47
Std Dev 86.77

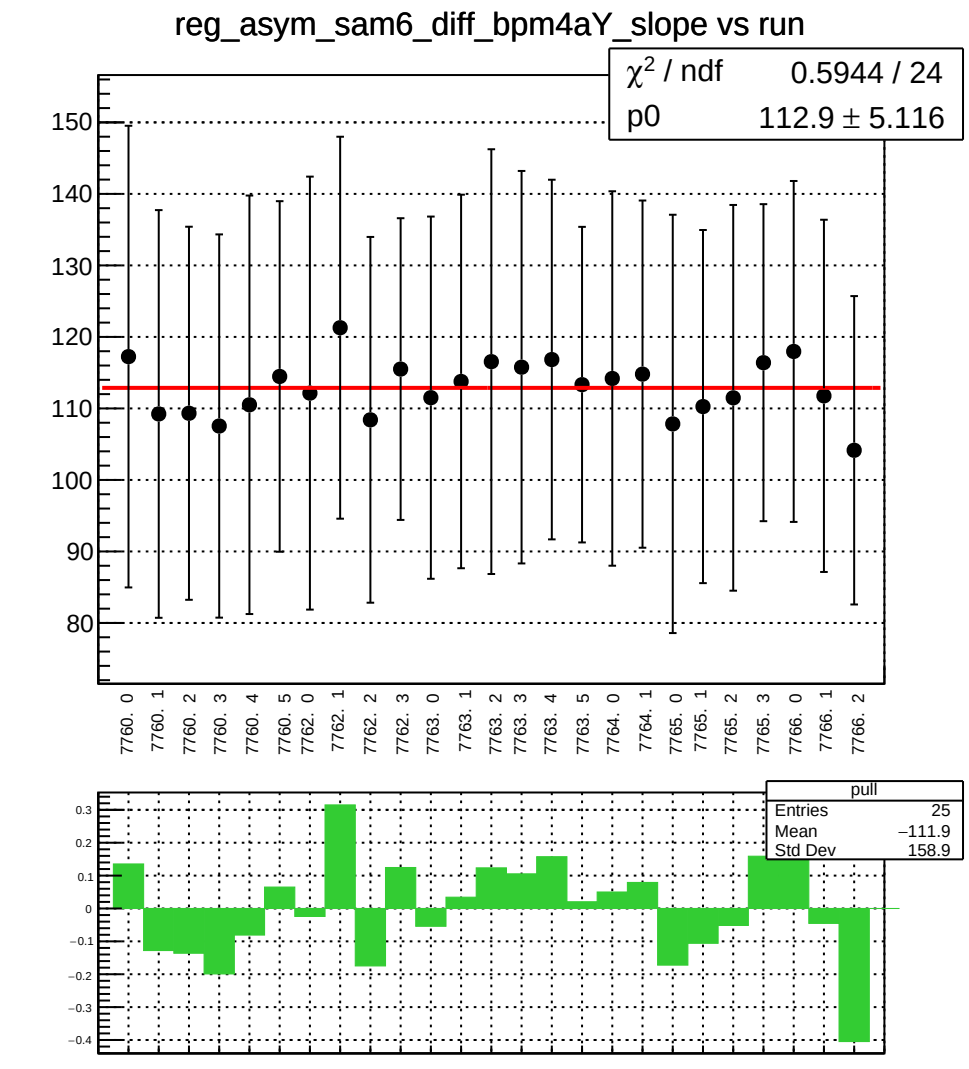

pull1D
Entries 25
Mean −0.001444
Std Dev 0.2474

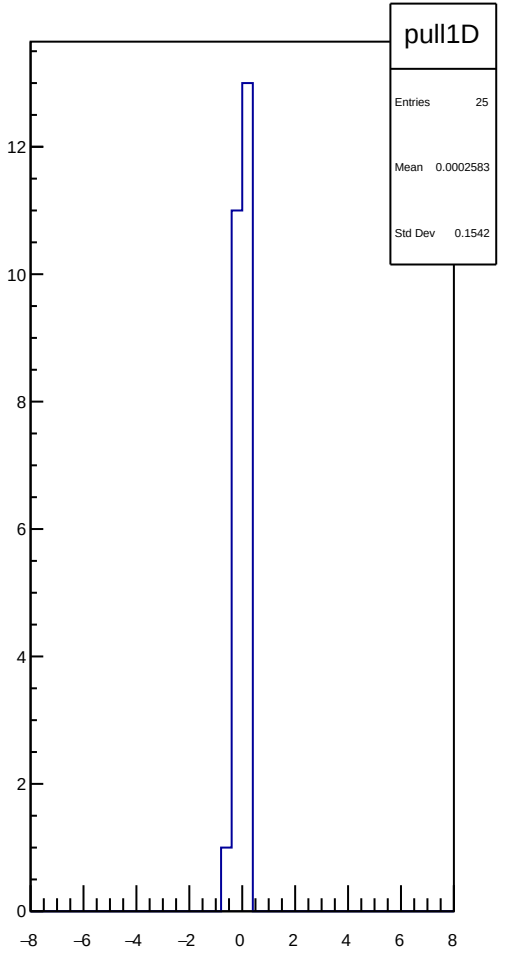

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 2.903 / 24
p0 −0.4954 ± 0.0675
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −747.3
Std Dev 759.5
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

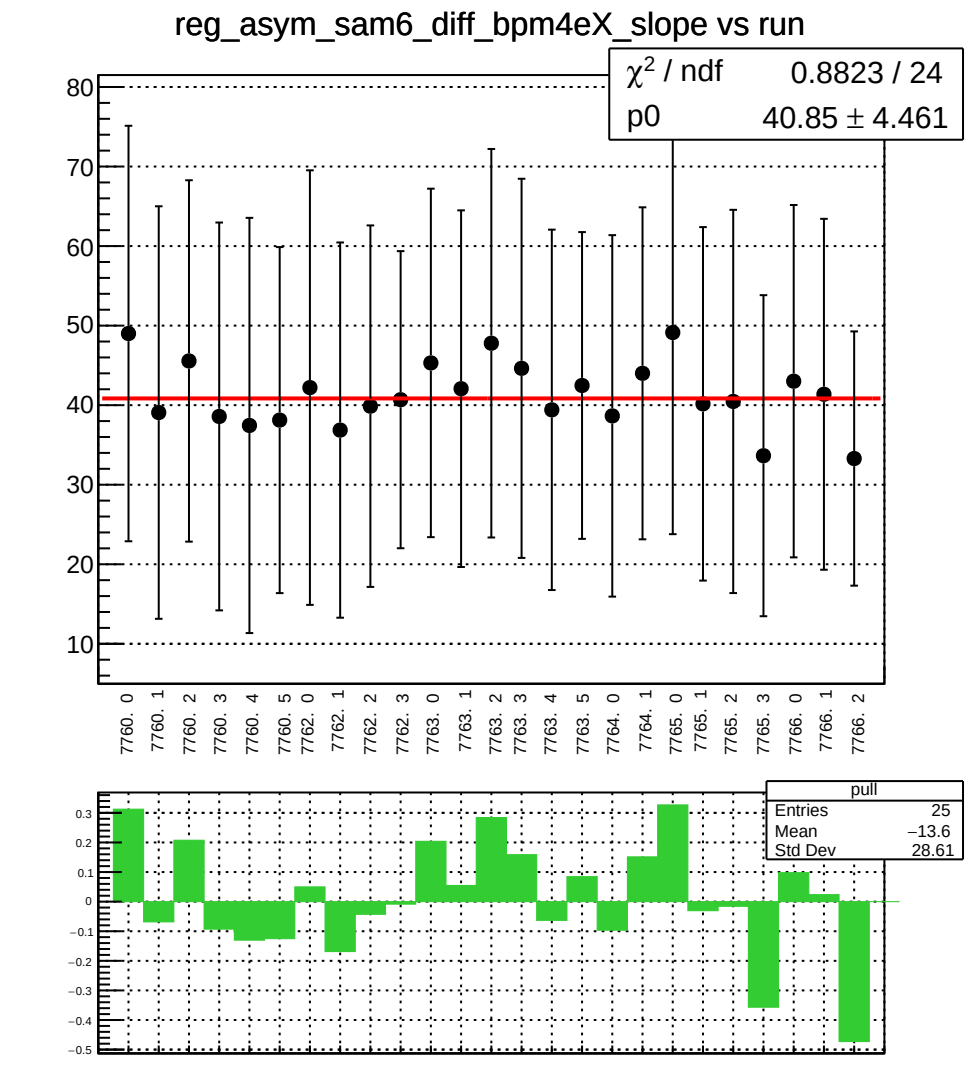

pull1D
Entries 25
Mean −0.001847
Std Dev 0.3407
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

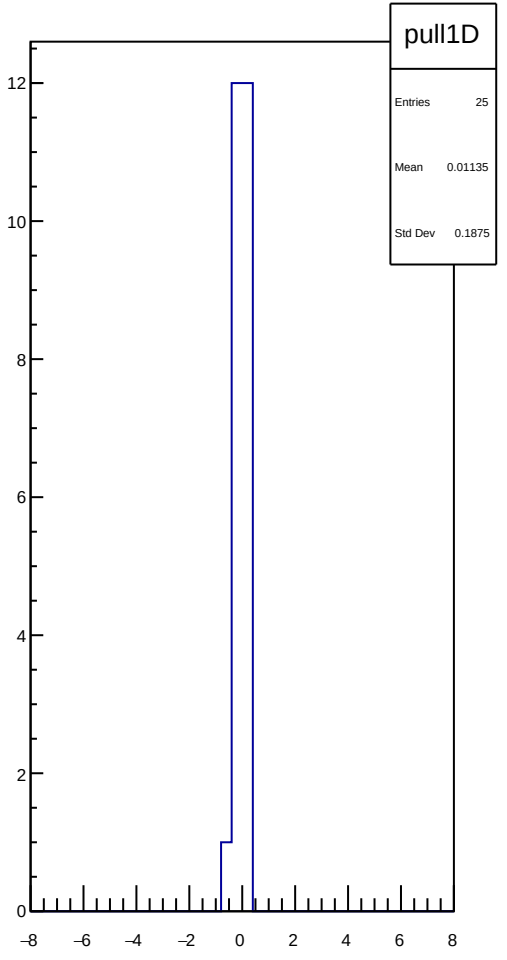

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 0.752 / 24
p0 24.2 ± 4.815
60
50
40
30
20
10
0
−10
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 10.8
Std Dev 20.59
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

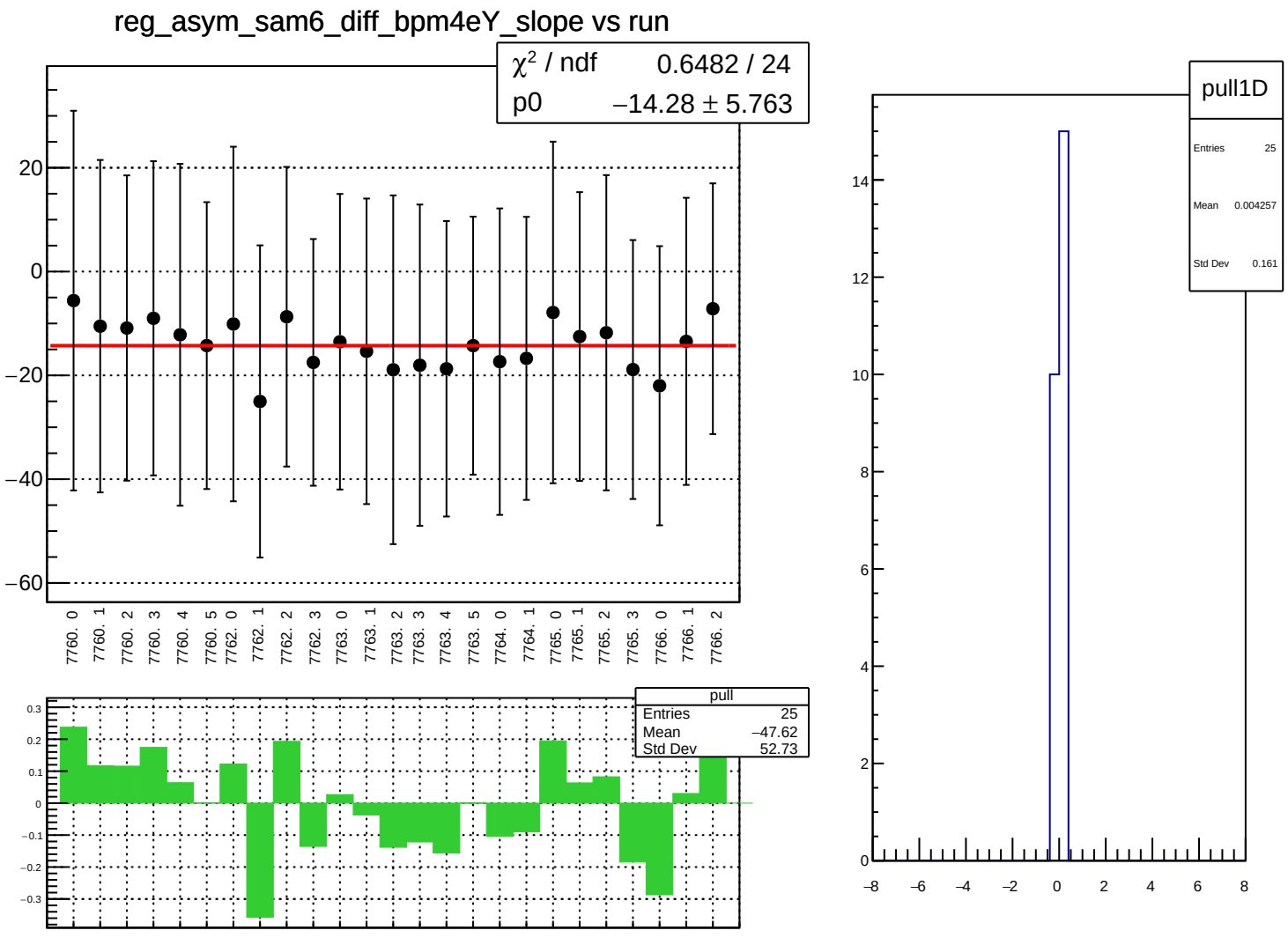

pull1D
Entries 25
Mean −0.006914
Std Dev 0.1733
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

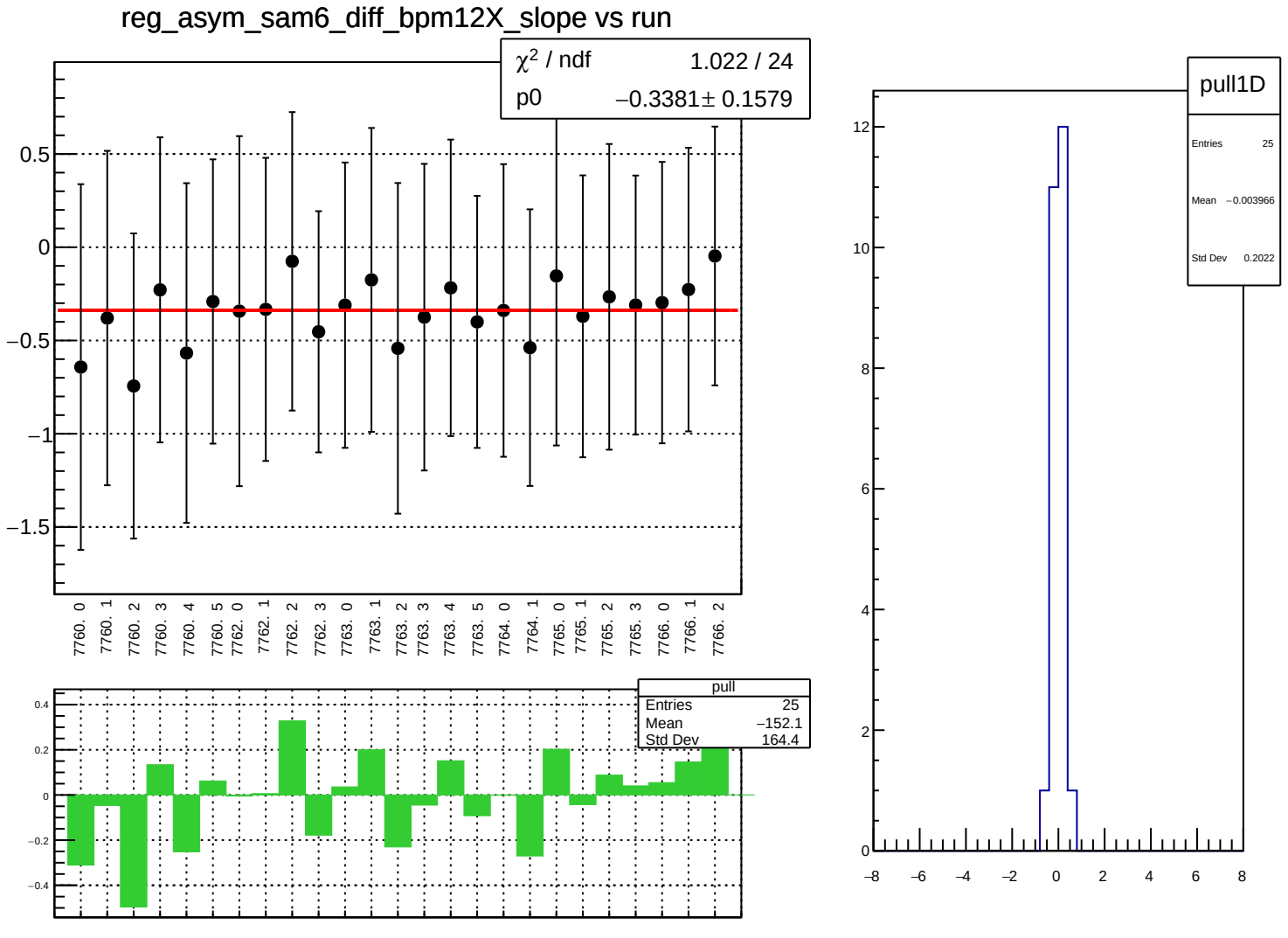

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 0.5944 / 24
p0 112.9 ± 5.116
150
140
130
120
110
100
90
80
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −111.9
Std Dev 158.9
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

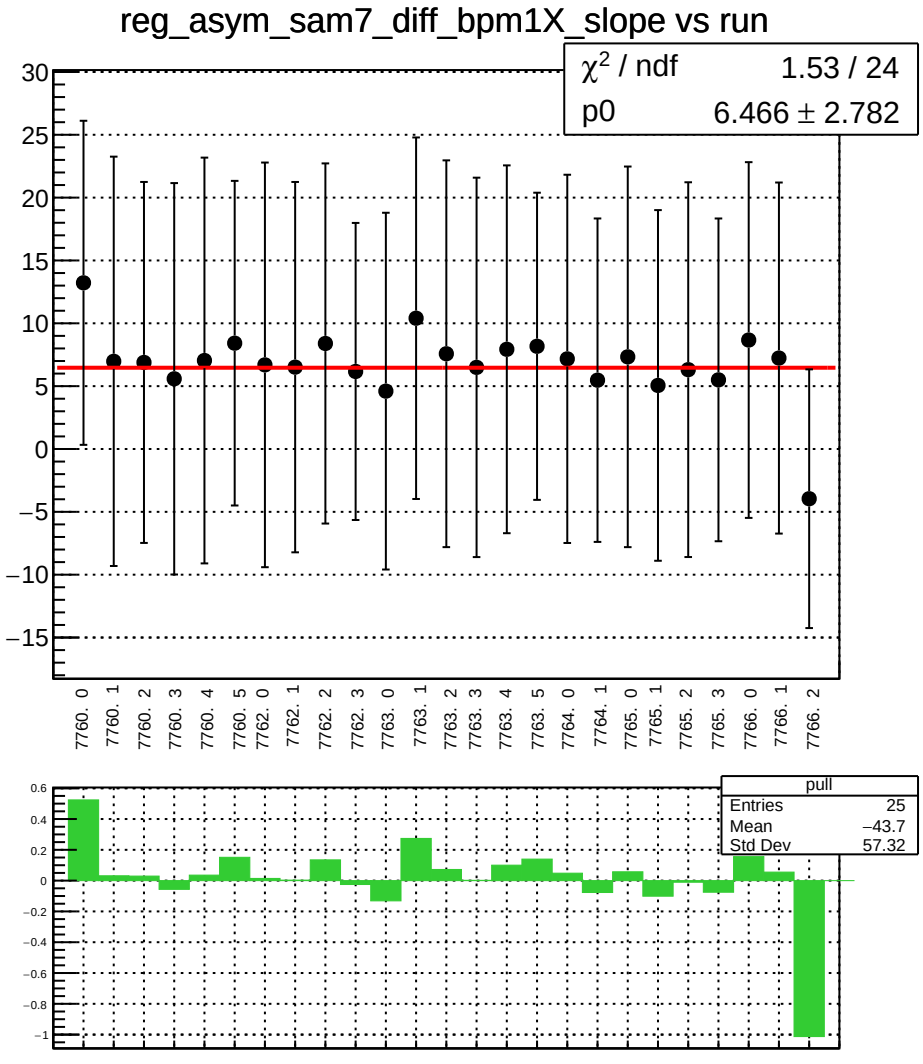

pull1D
Entries 25
Mean 0.0002583
Std Dev 0.1542
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

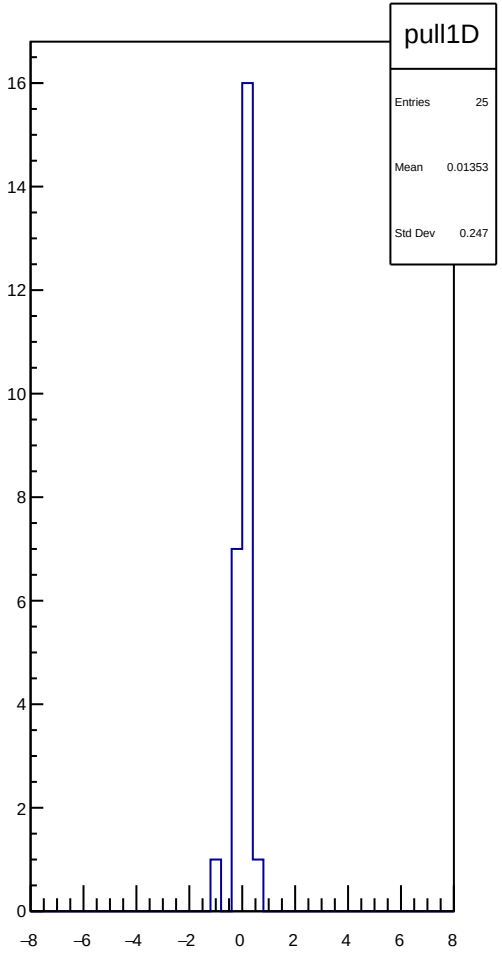

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 0.8823 / 24
p0 40.85 ± 4.461
80
70
60
50
40
30
20
10
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −13.6
Std Dev 28.61
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5

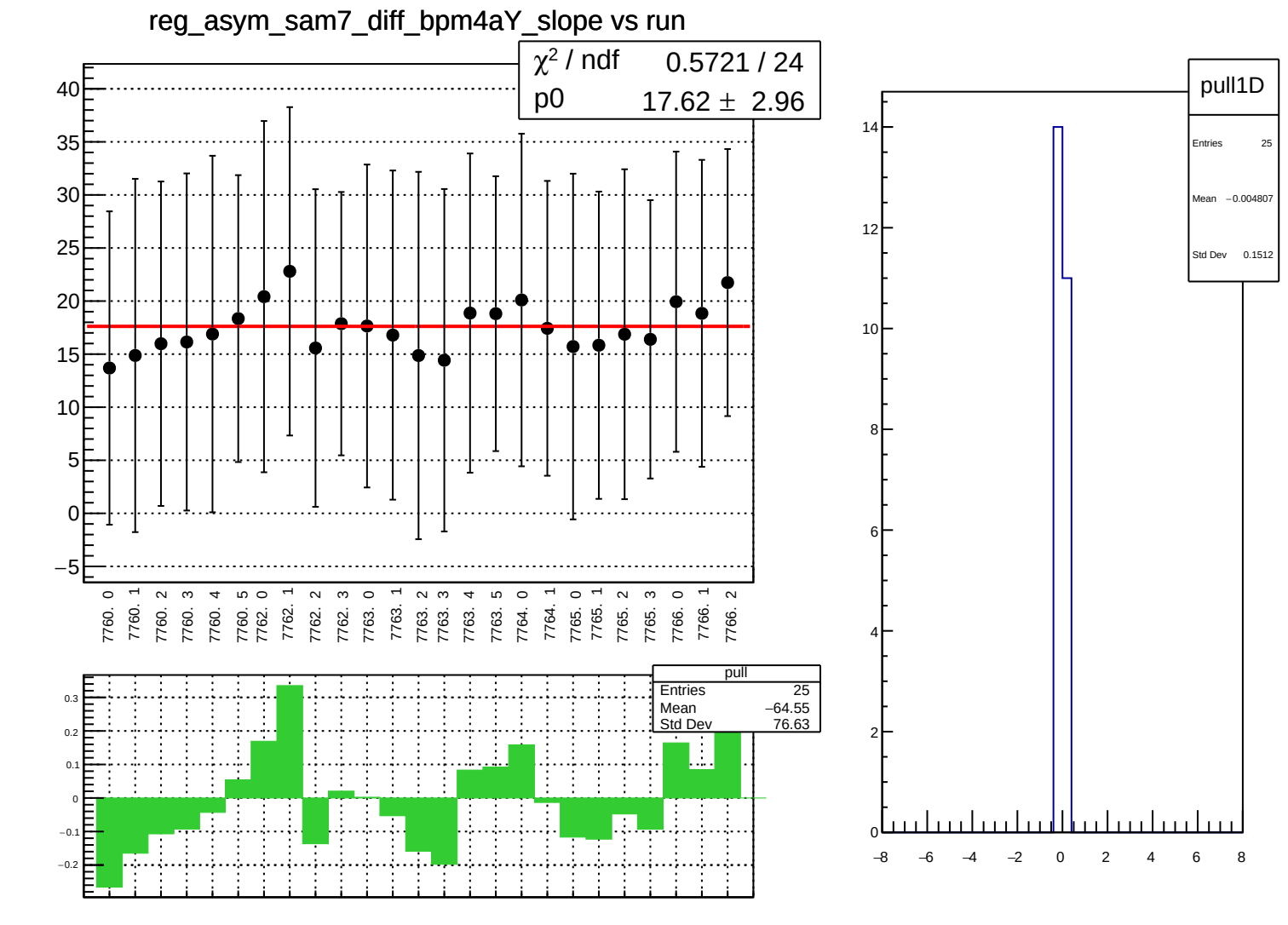

pull1D
Entries 25
Mean 0.01135
Std Dev 0.1875
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

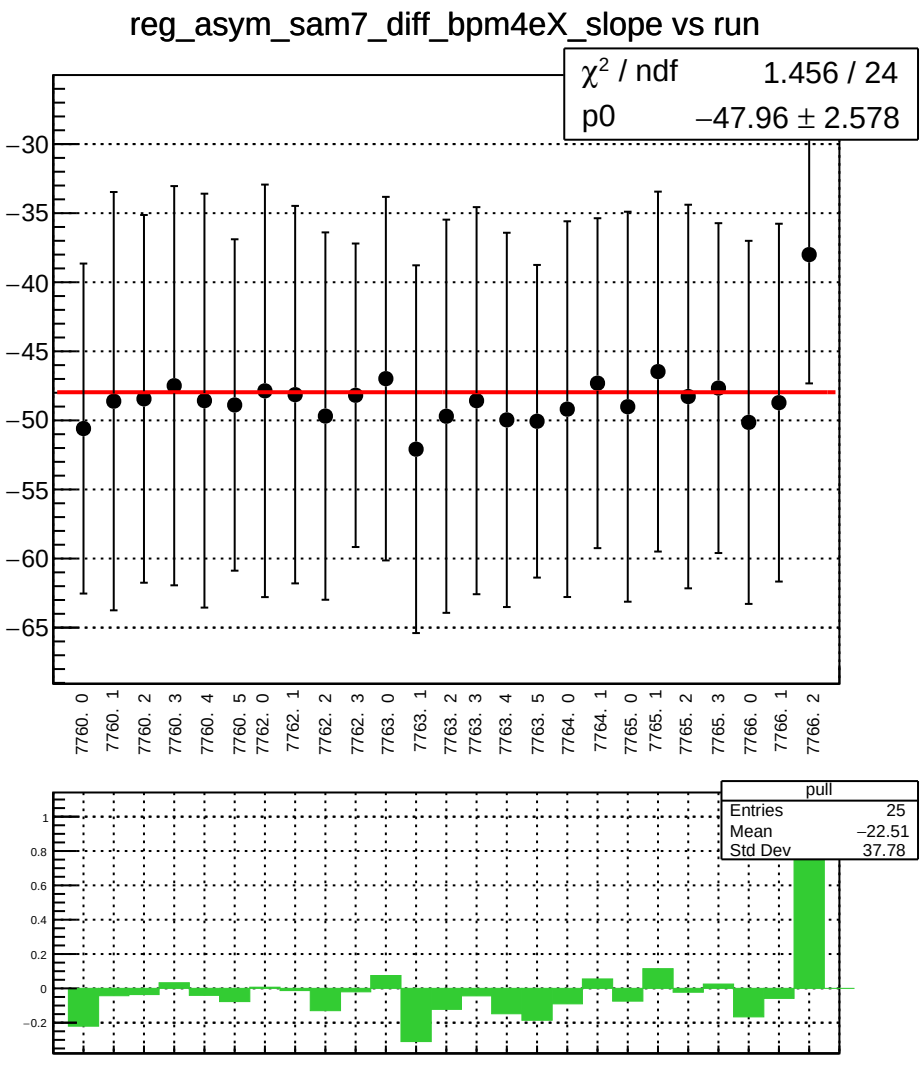

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 0.6482 / 24
p0 −14.28 ± 5.763
20
0
−20
−40
−60
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −47.62
Std Dev 52.73
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 25
Mean 0.004257
Std Dev 0.161
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

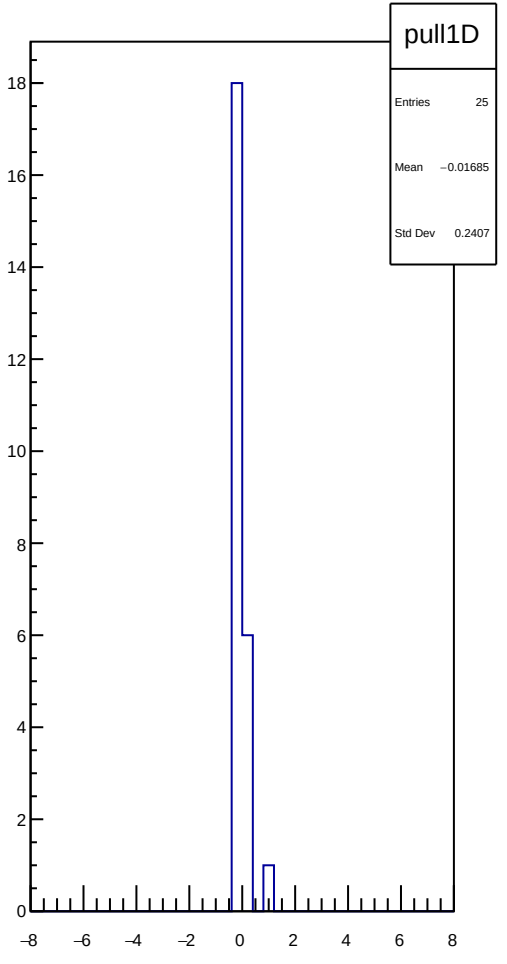

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 1.022 / 24
p0 −0.3381± 0.1579
0.5
0
−0.5
−1
−1.5
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −152.1
Std Dev 164.4
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 25
Mean −0.003966
Std Dev 0.2022
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

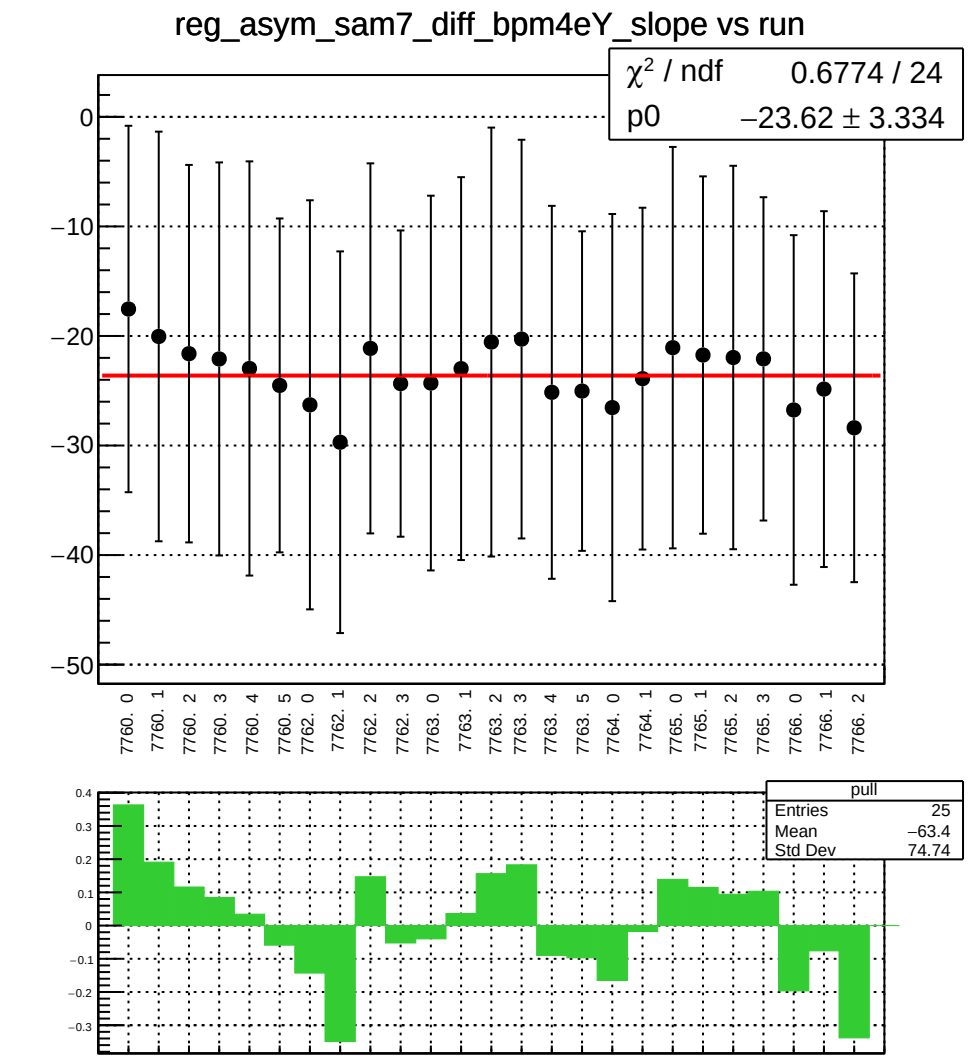

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 1.53 / 24
p0 6.466 ± 2.782
pull
Entries 25
Mean −43.7
Std Dev 57.32

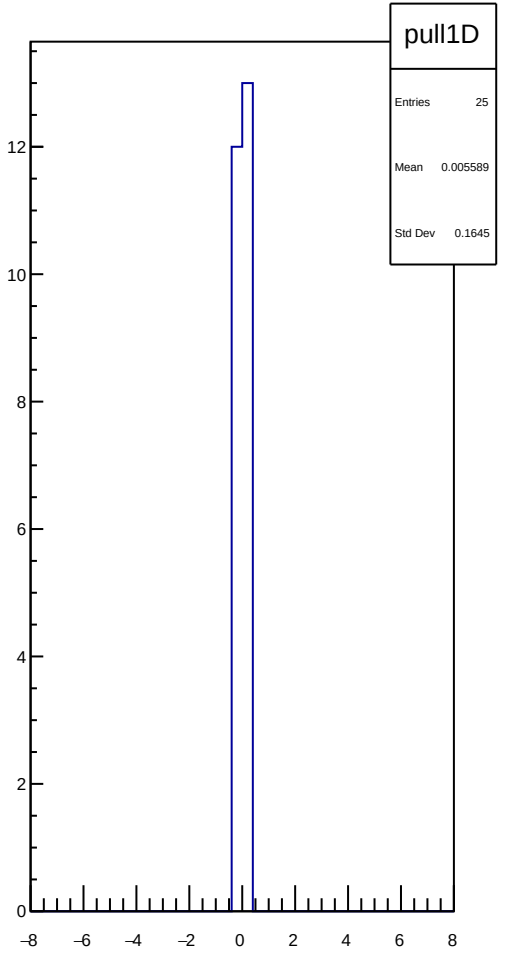

pull1D
Entries 25
Mean 0.01353
Std Dev 0.247

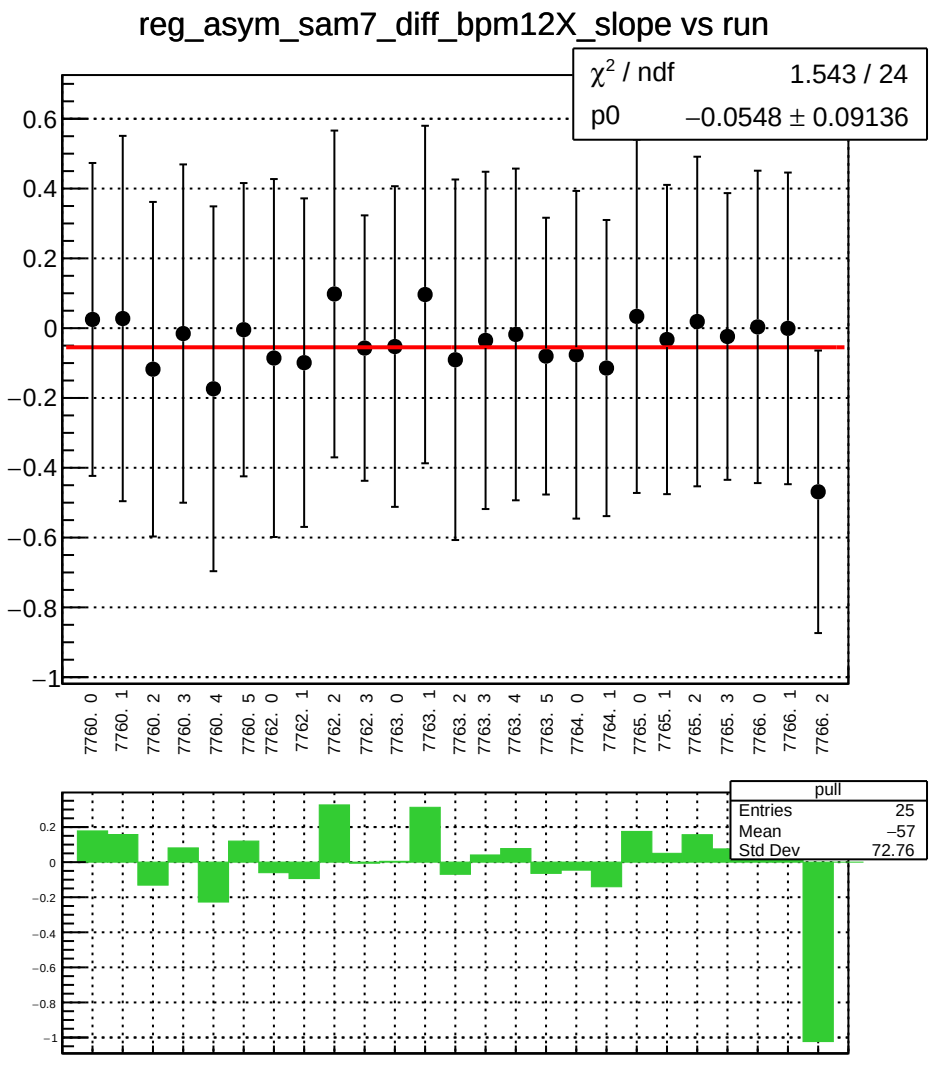

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 0.5721 / 24
p0 17.62 ± 2.96
pull
Entries 25
Mean −64.55
Std Dev 76.63
pull1D
Entries 25
Mean −0.004807
Std Dev 0.1512

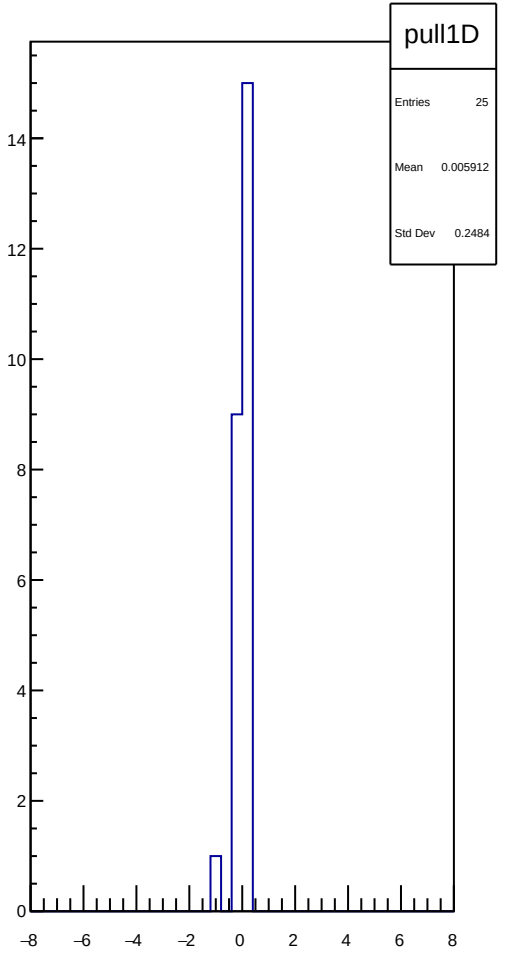

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 1.456 / 24
p0 −47.96 ± 2.578
−30
−35
−40
−45
−50
−55
−60
−65
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −22.51
Std Dev 37.78
1
0.8
0.6
0.4
0.2
0
−0.2

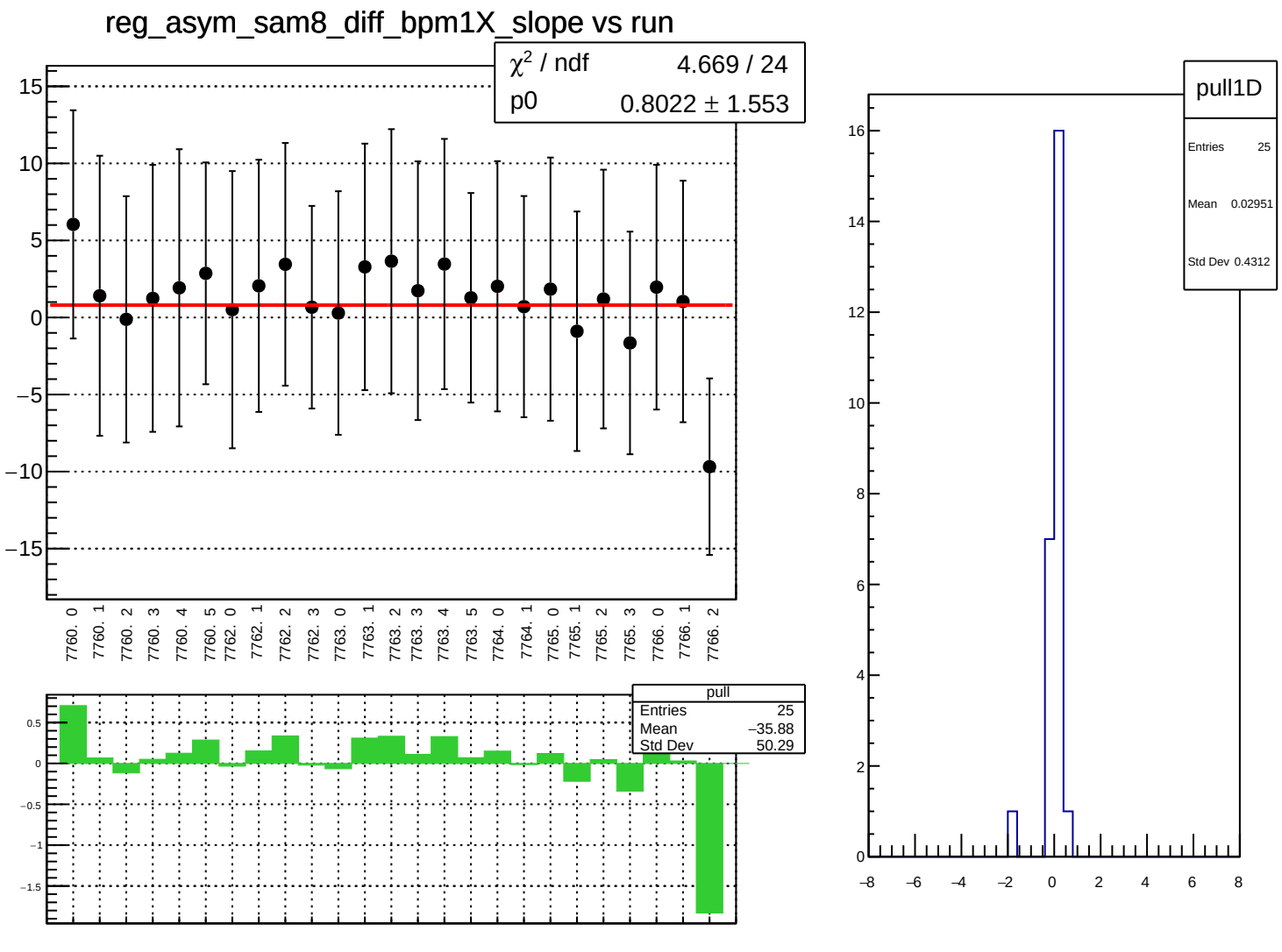

pull1D
Entries 25
Mean −0.01685
Std Dev 0.2407
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

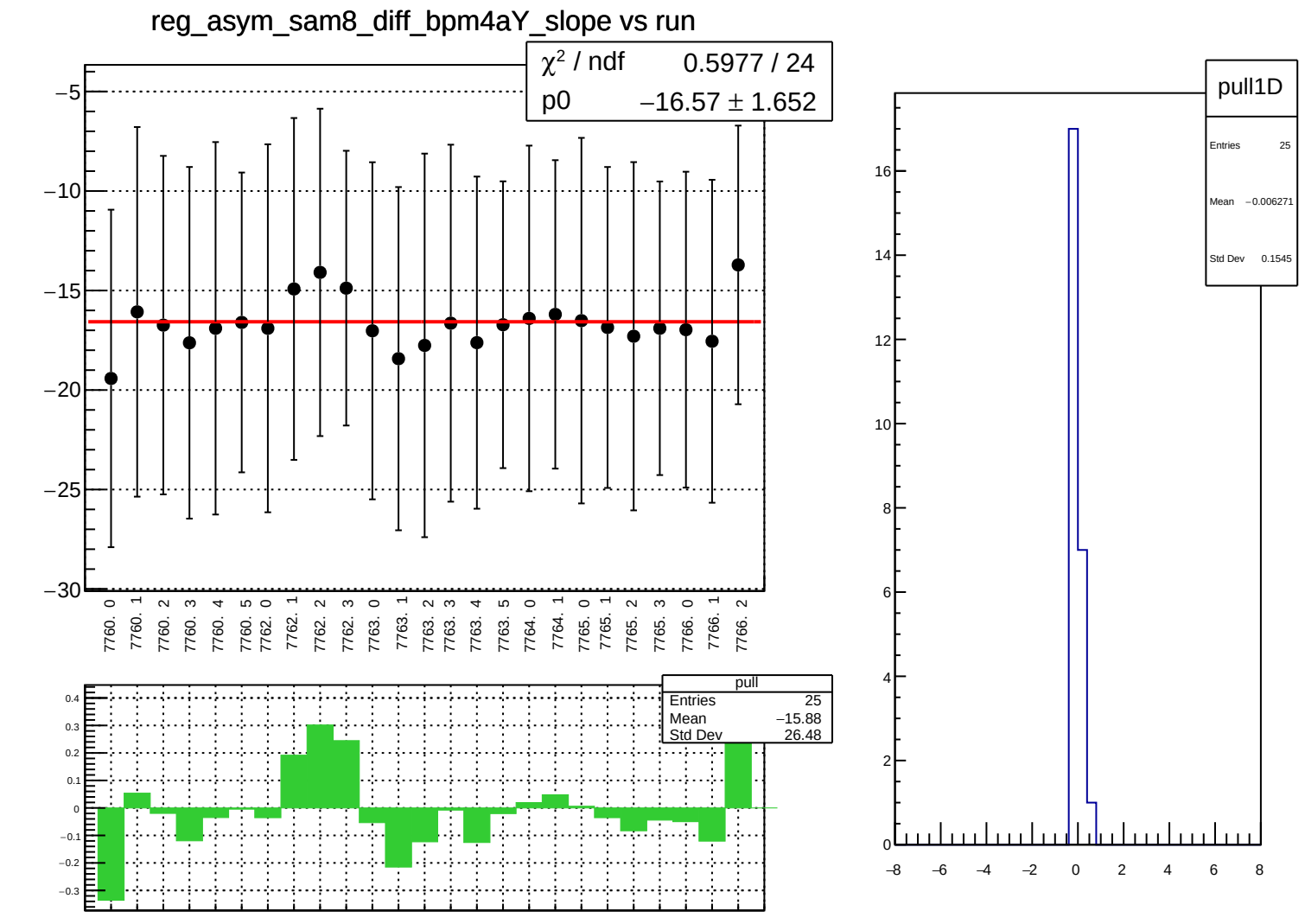

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 0.6774 / 24
p0 −23.62 ± 3.334
0
−10
−20
−30
−40
−50
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −63.4
Std Dev 74.74
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

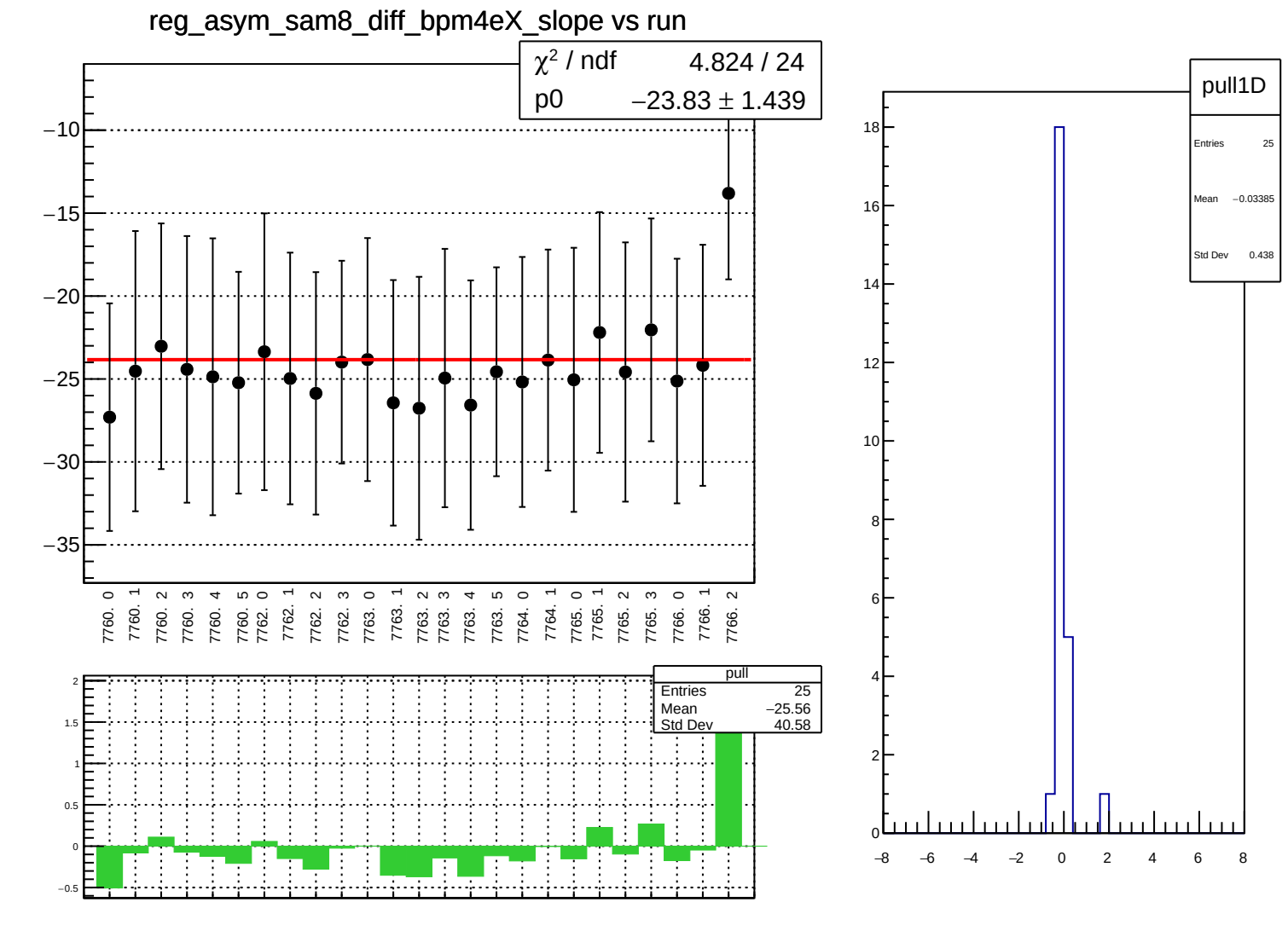

pull1D
Entries 25
Mean 0.005589
Std Dev 0.1645
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

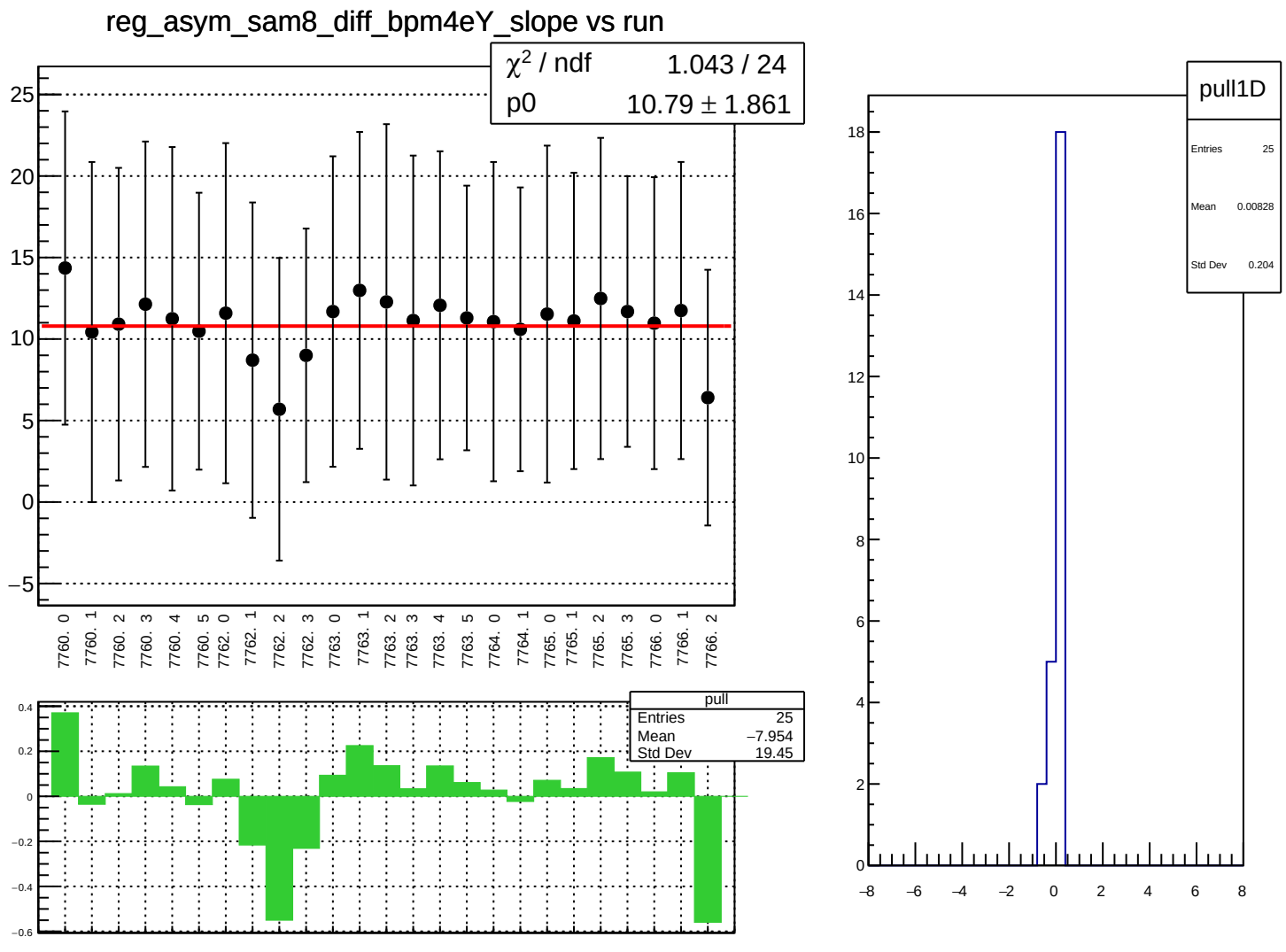

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 1.543 / 24
p0 −0.0548 ± 0.09136
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −57
Std Dev 72.76
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

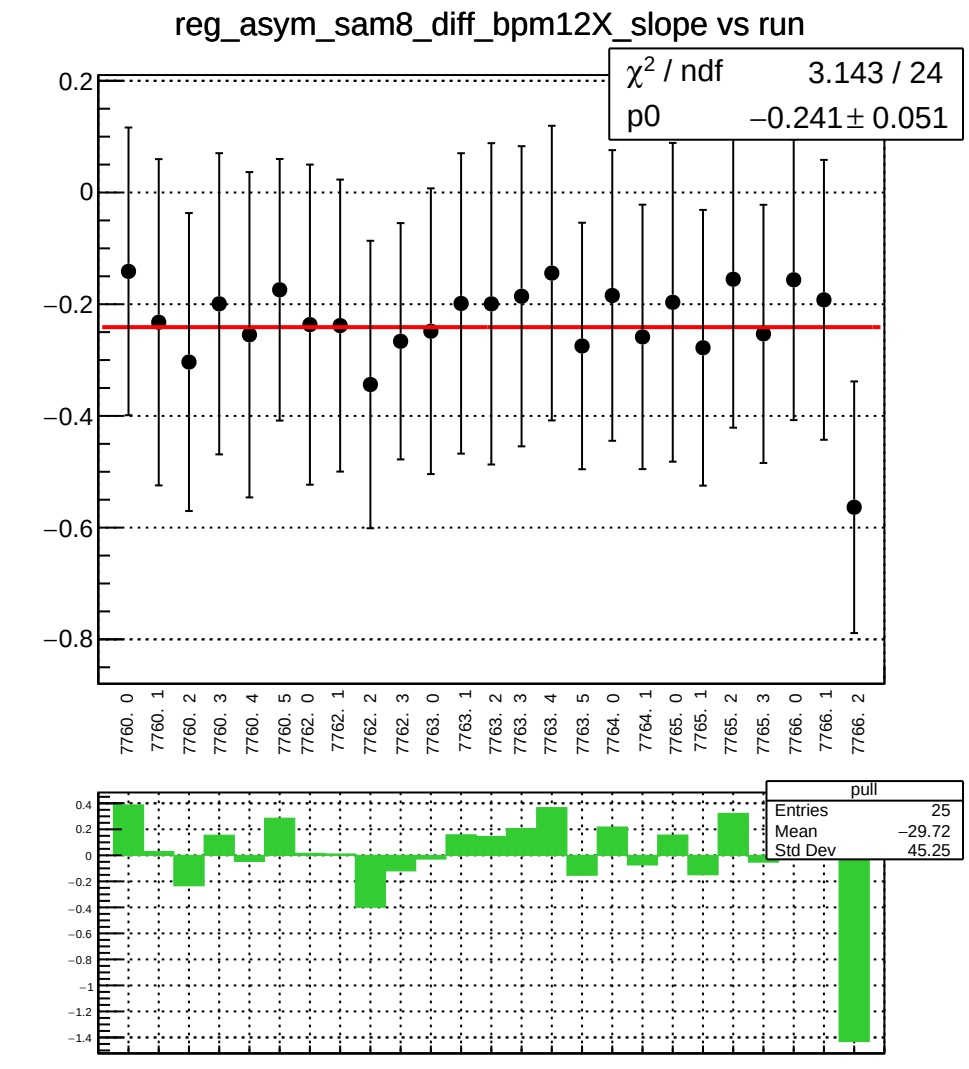

pull1D
Entries 25
Mean 0.005912
Std Dev 0.2484
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

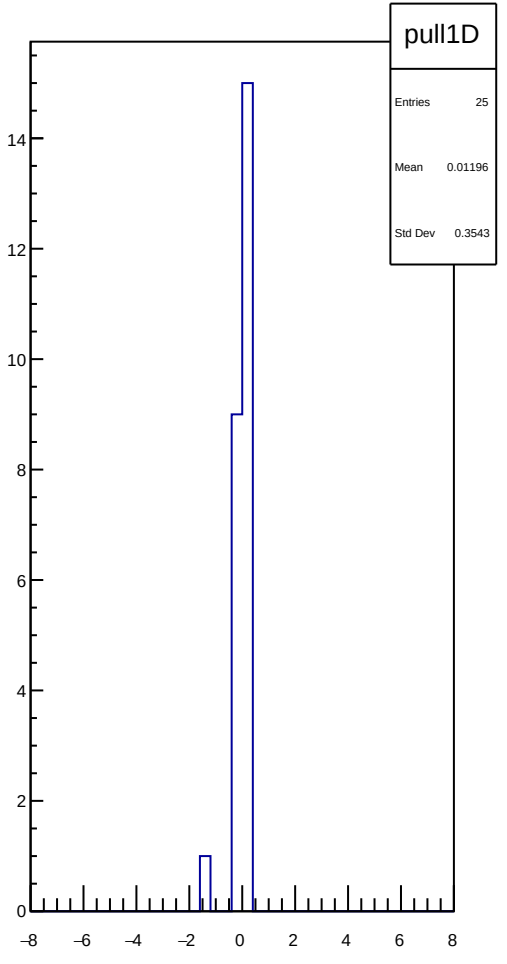

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 4.669 / 24
p0 0.8022 ± 1.553
15
10
5
0
−5
−10
−15
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −35.88
Std Dev 50.29
0.5
0
−0.5
−1
−1.5
pull1D
Entries 25
Mean 0.02951
Std Dev 0.4312
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

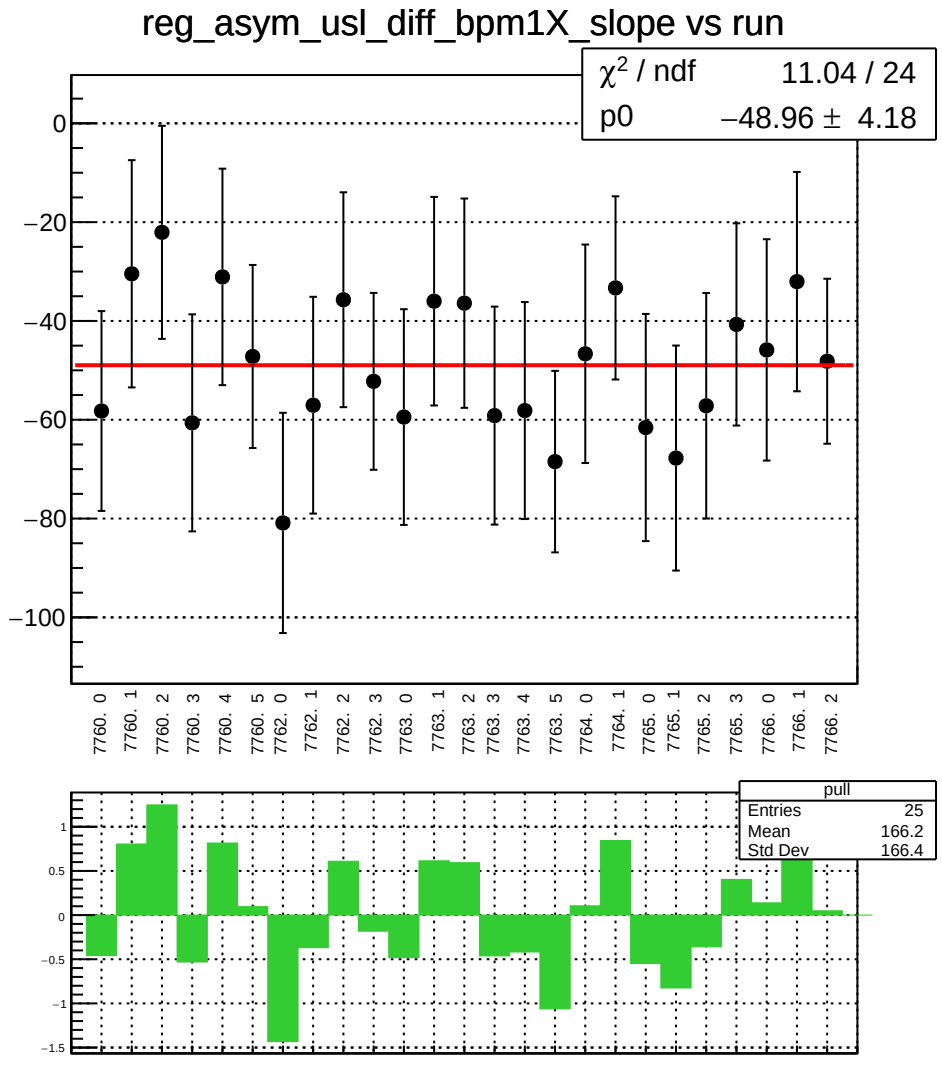

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 0.5977 / 24
p0 −16.57 ± 1.652
−5
−10
−15
−20
−25
−30
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −15.88
Std Dev 26.48
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 25
Mean −0.006271
Std Dev 0.1545
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

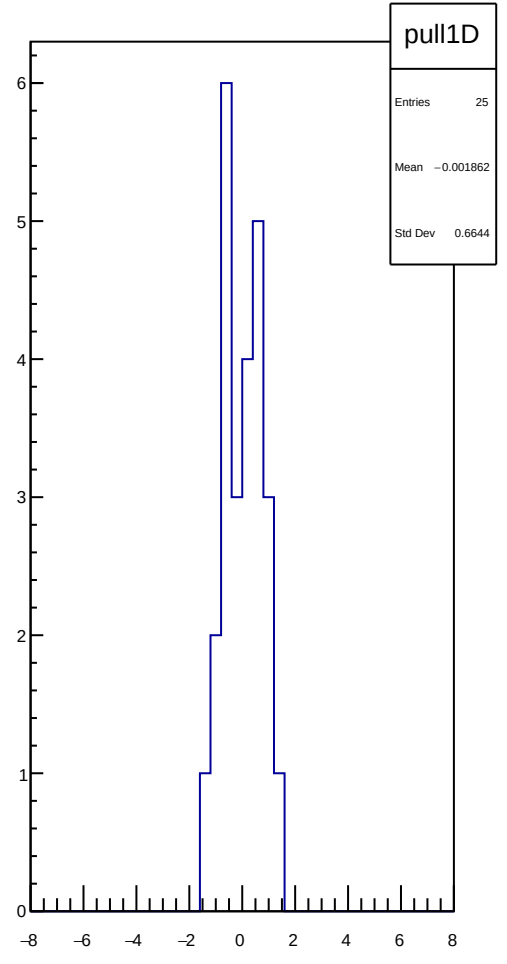

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 4.824 / 24
p0 −23.83 ± 1.439
−10
−15
−20
−25
−30
−35
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −25.56
Std Dev 40.58
2
1.5
1
0.5
0
−0.5
pull1D
Entries 25
Mean −0.03385
Std Dev 0.438
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

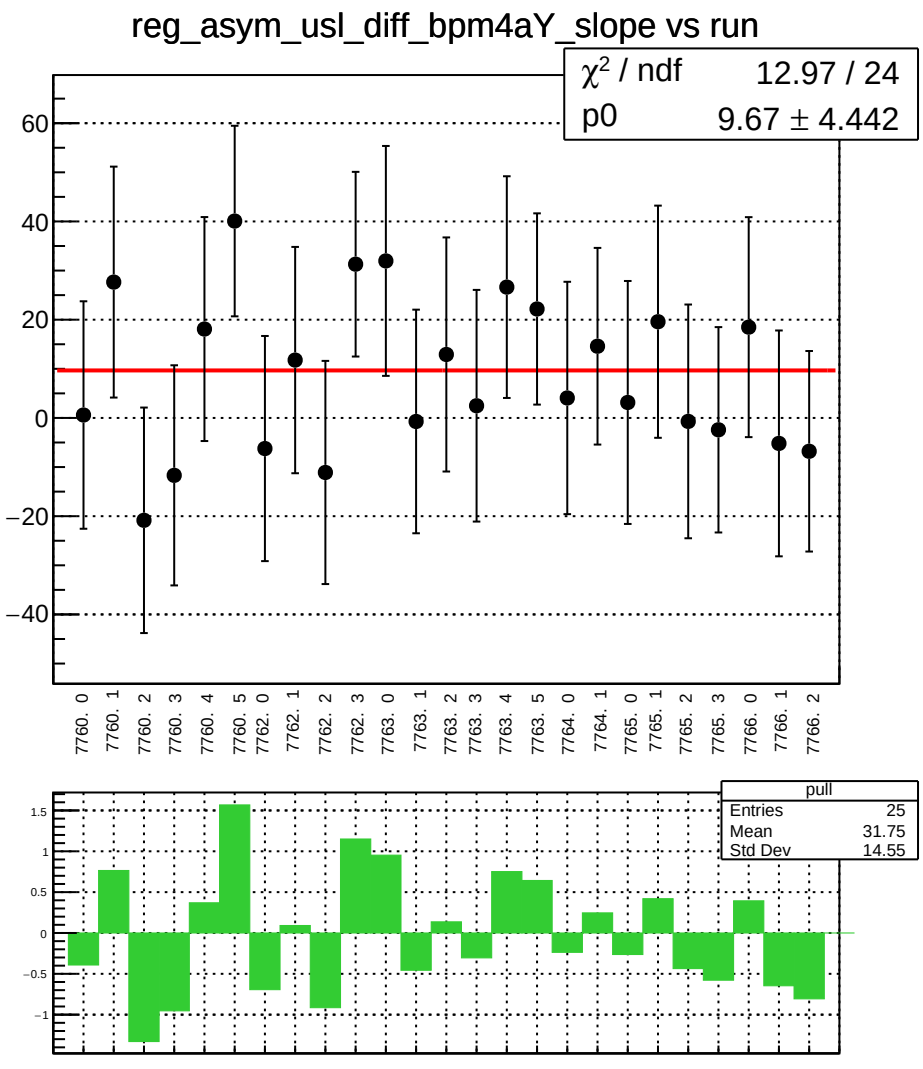

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 1.043 / 24
p0 10.79 ± 1.861
pull
Entries 25
Mean −7.954
Std Dev 19.45
pull1D
Entries 25
Mean 0.00828
Std Dev 0.204

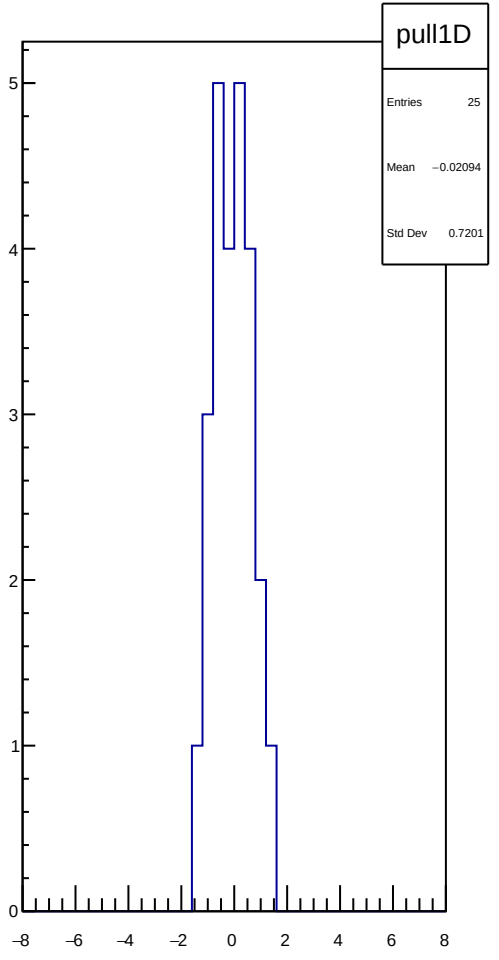

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 3.143 / 24
p0 −0.241 ± 0.051
0.2
0
−0.2
−0.4
−0.6
−0.8
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −29.72
Std Dev 45.25
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4

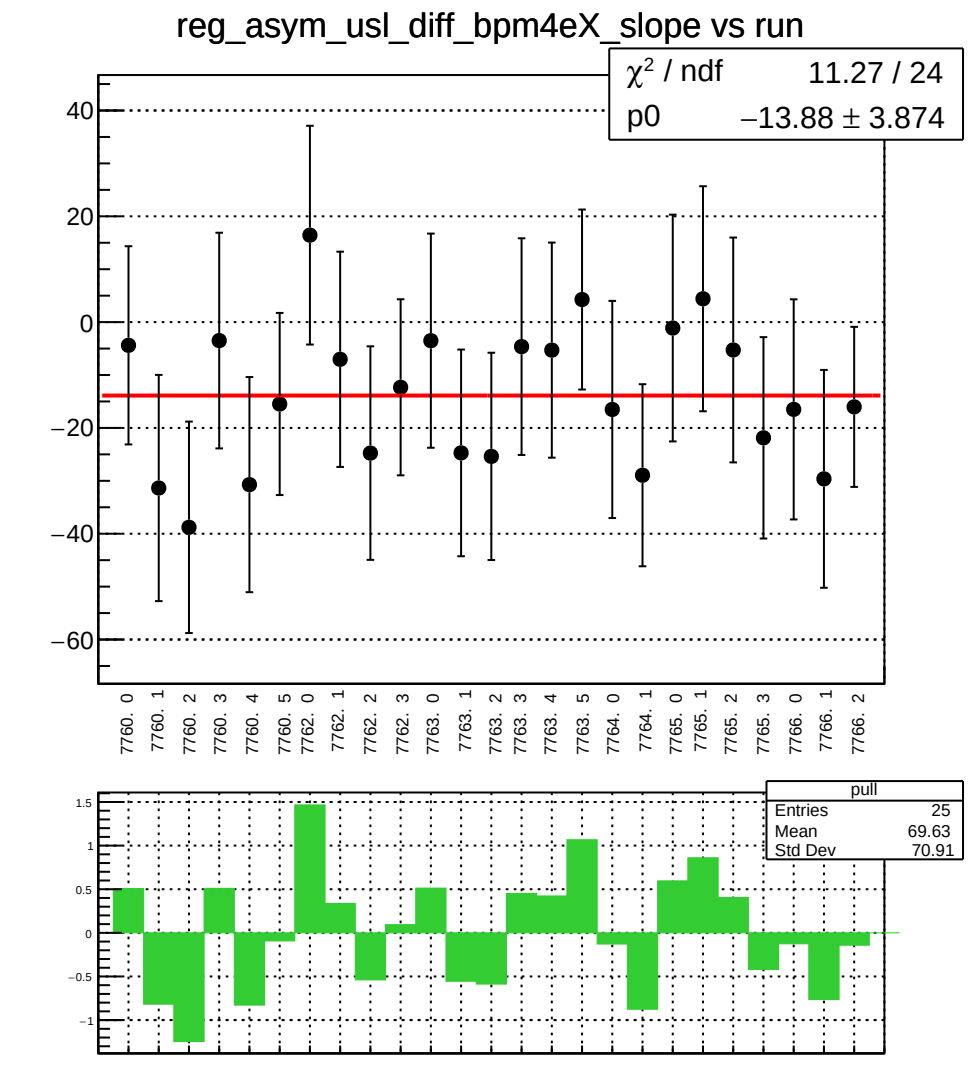

pull1D
Entries 25
Mean 0.01196
Std Dev 0.3543
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

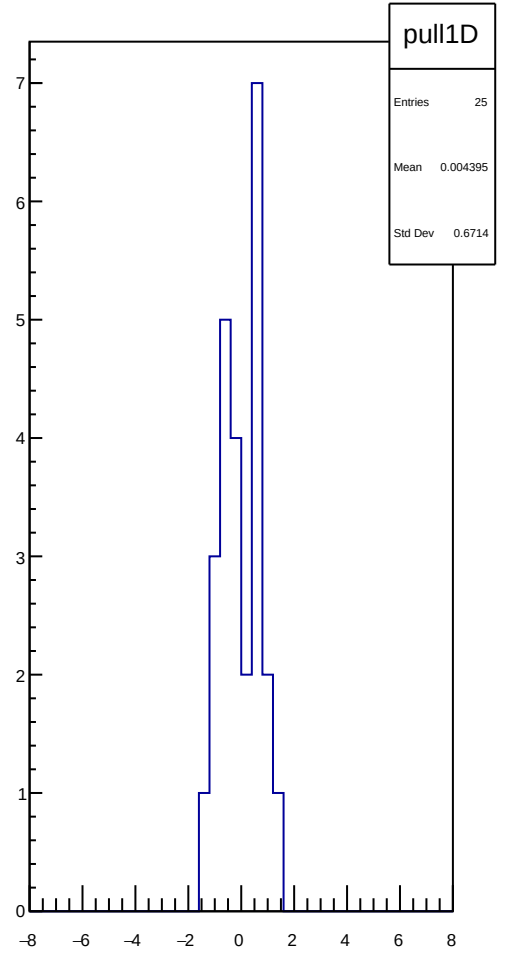

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 11.04 / 24
p0 −48.96 ± 4.18
0
−20
−40
−60
−80
−100
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 166.2
Std Dev 166.4
1
0.5
0
−0.5
−1
−1.5

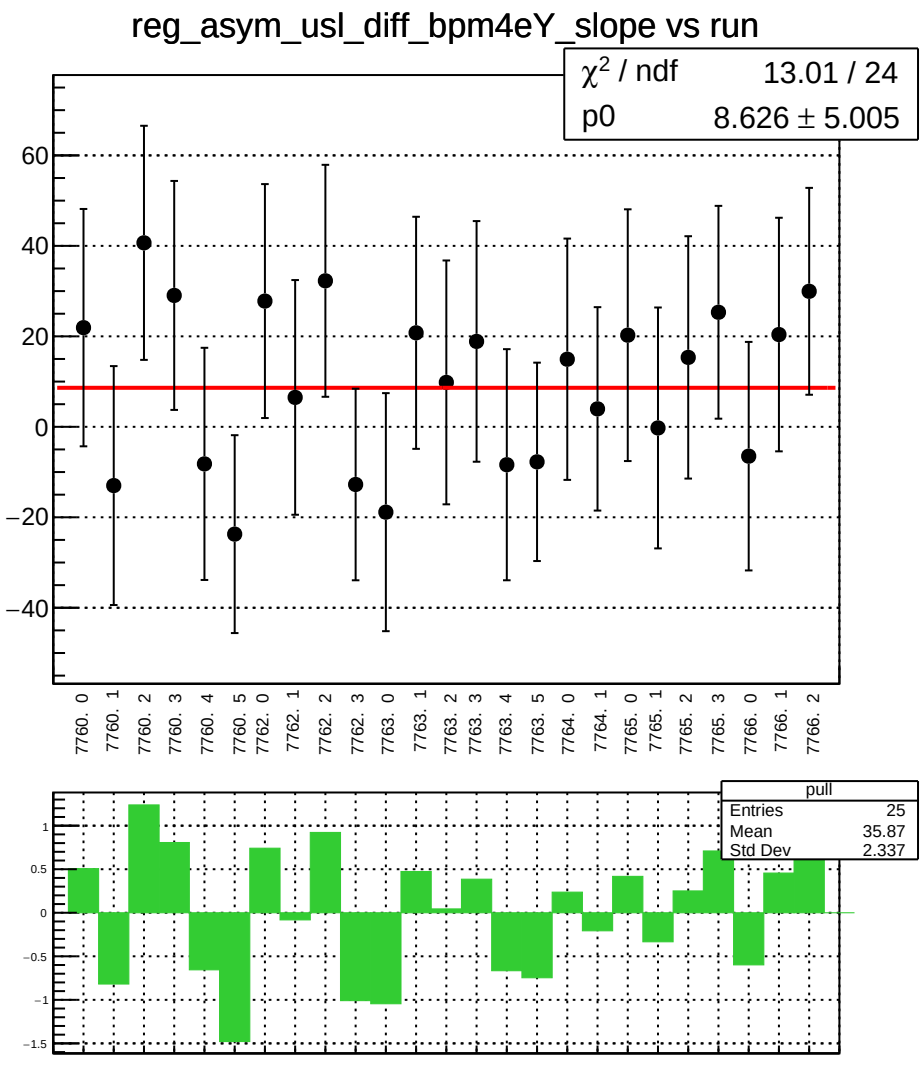

pull1D
Entries 25
Mean −0.001862
Std Dev 0.6644
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

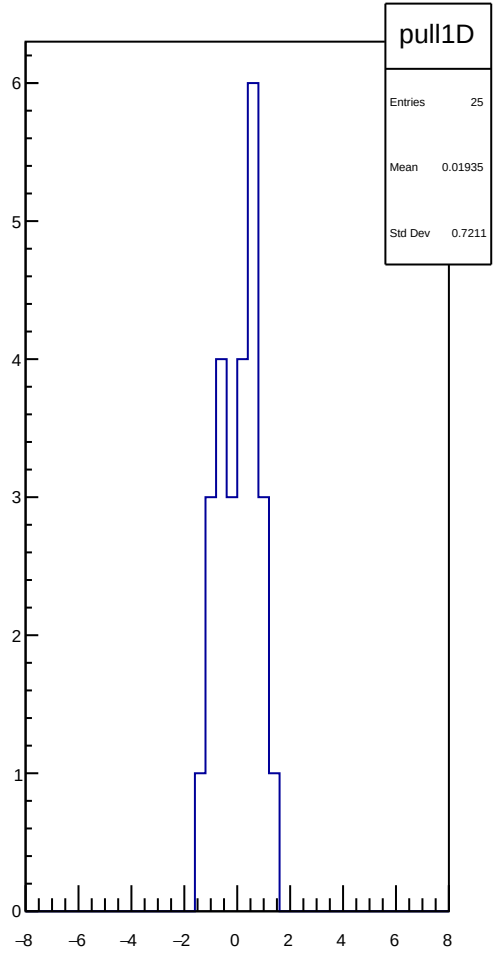

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 12.97 / 24
p0 9.67 ± 4.442
60
40
20
0
−20
−40
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 31.75
Std Dev 14.55
1.5
1
0.5
0
−0.5
−1

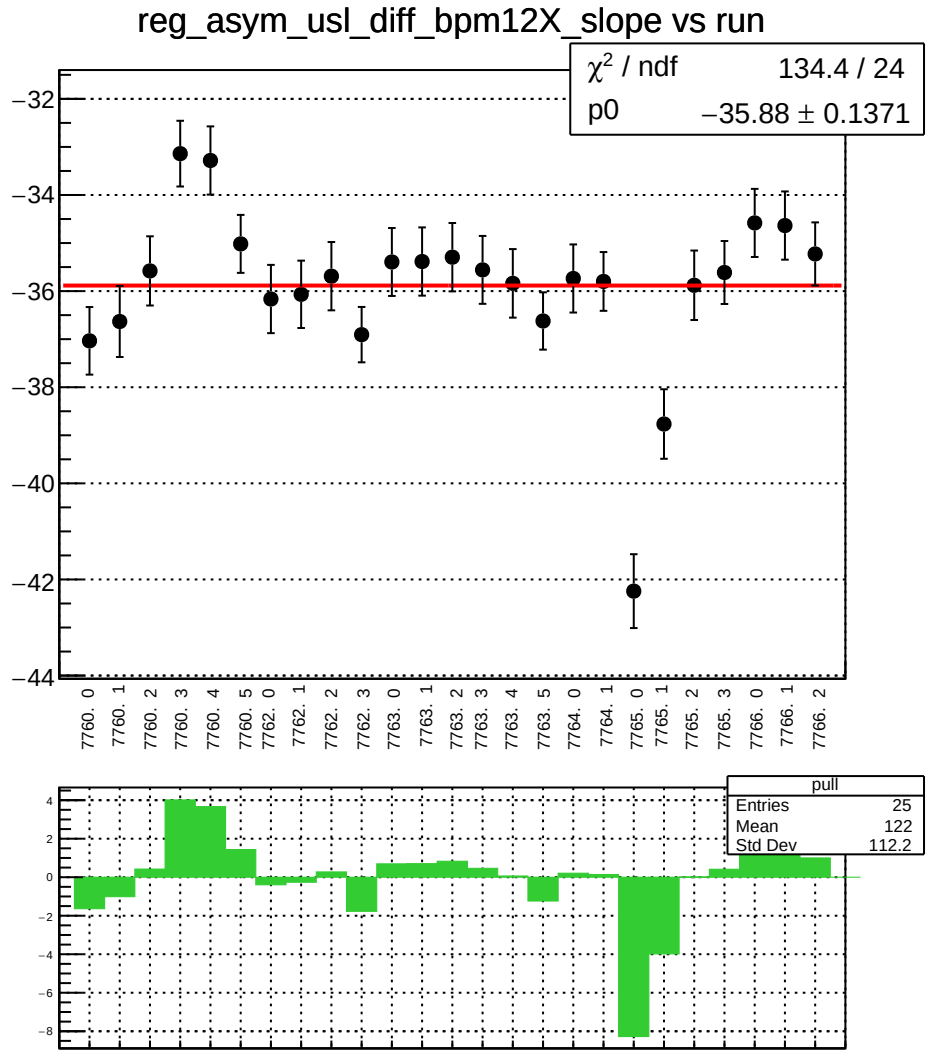

pull1D
Entries 25
Mean −0.02094
Std Dev 0.7201
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

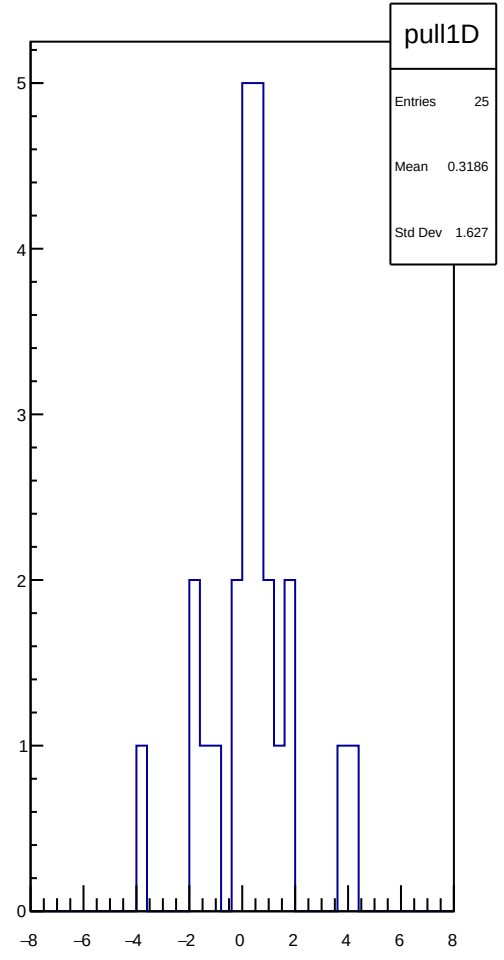

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 11.27 / 24
p0 −13.88 ± 3.874
40
20
0
−20
−40
−60
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 69.63
Std Dev 70.91
1.5
1
0.5
0
−0.5
−1

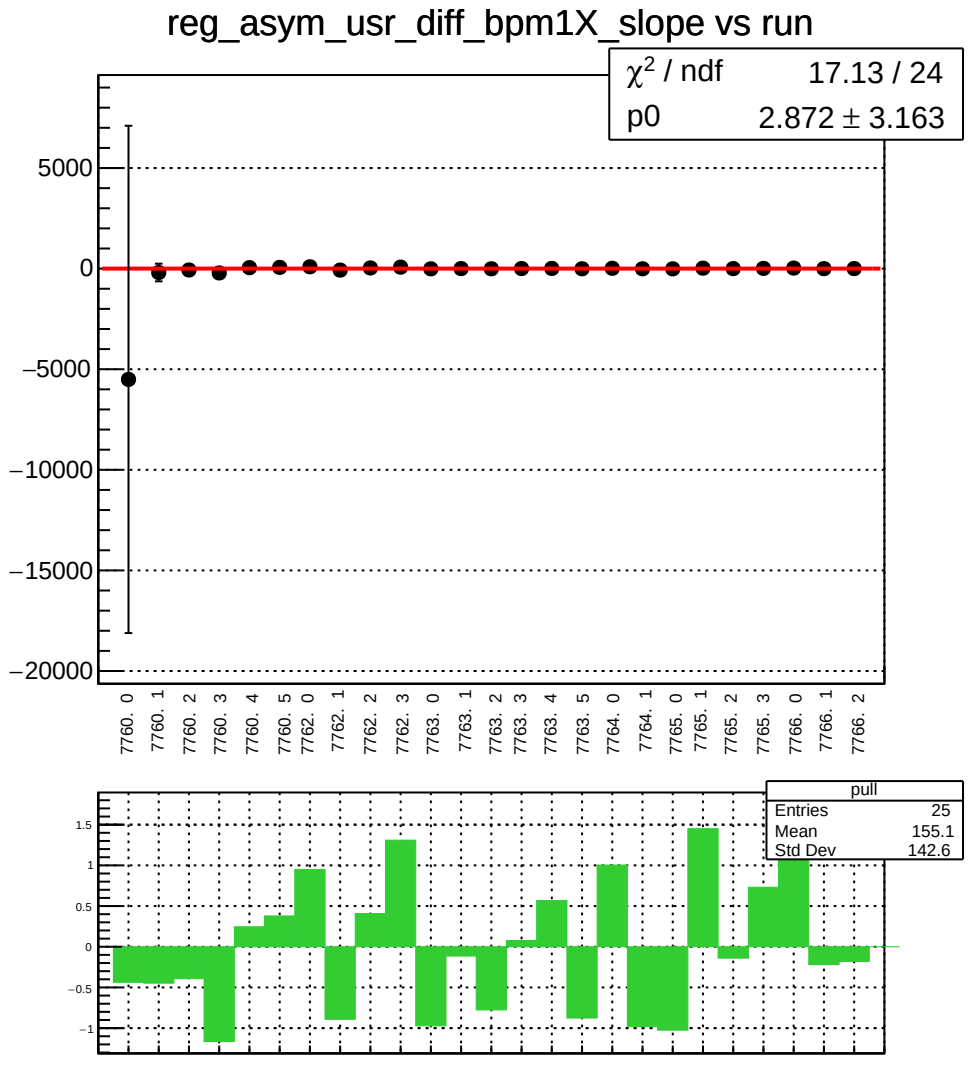

pull1D
Entries 25
Mean 0.004395
Std Dev 0.6714
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

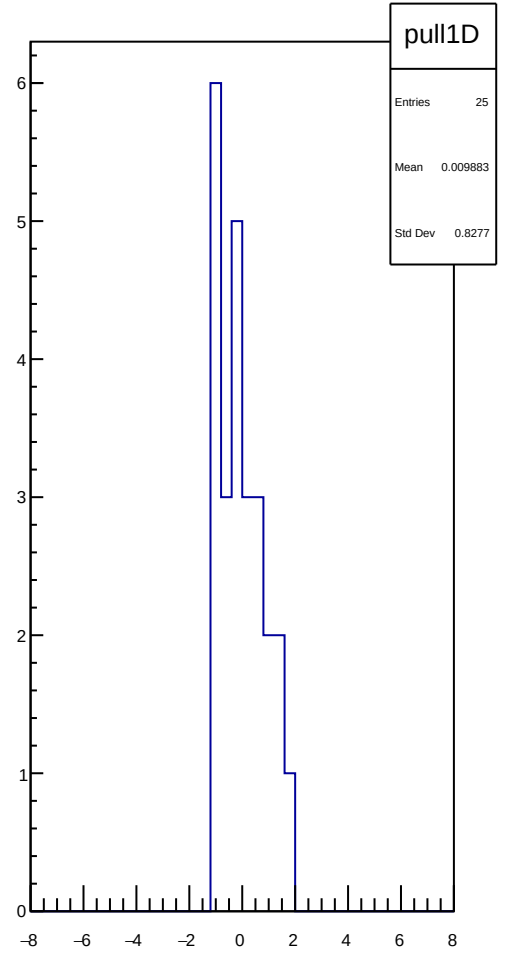

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 13.01 / 24
p0 8.626 ± 5.005
60
40
20
0
−20
−40
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 35.87
Std Dev 2.337
1
0.5
0
−0.5
−1
−1.5

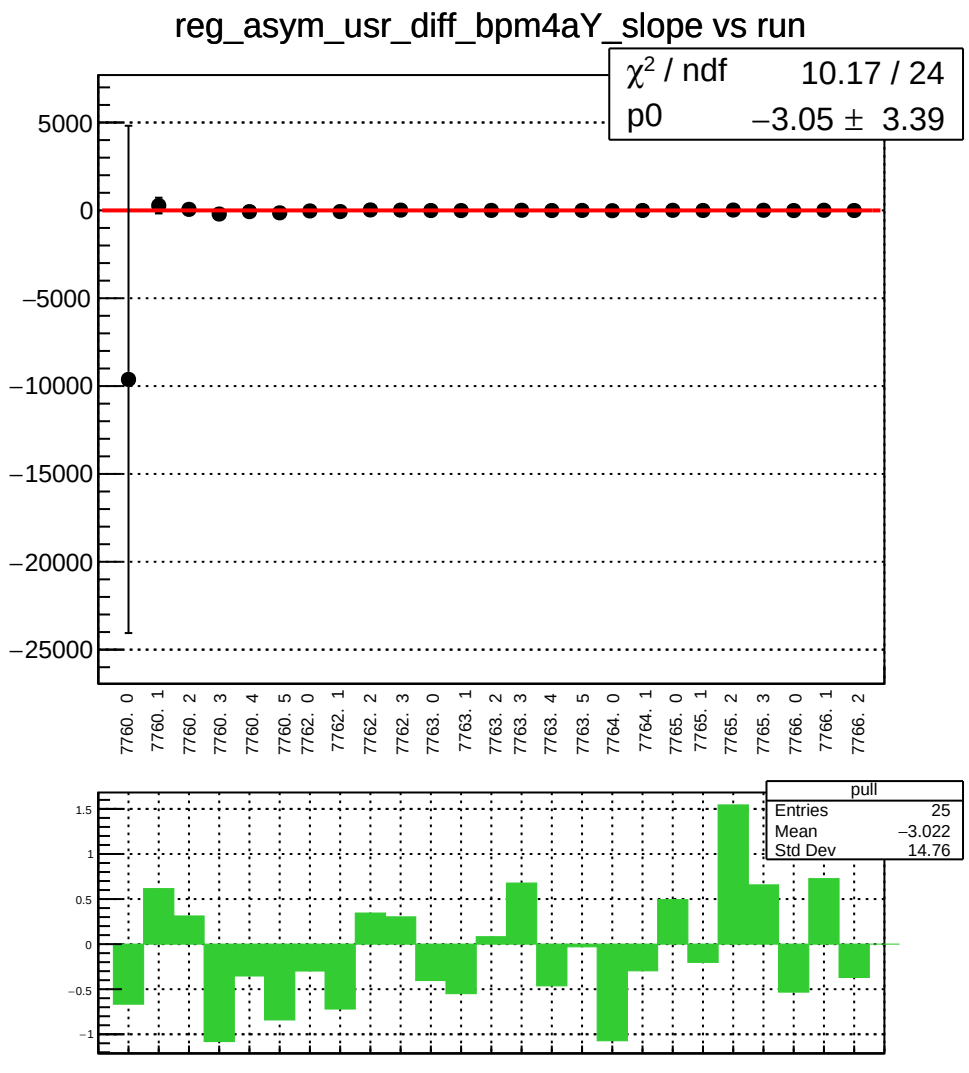

pull1D
Entries 25
Mean 0.01935
Std Dev 0.7211
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

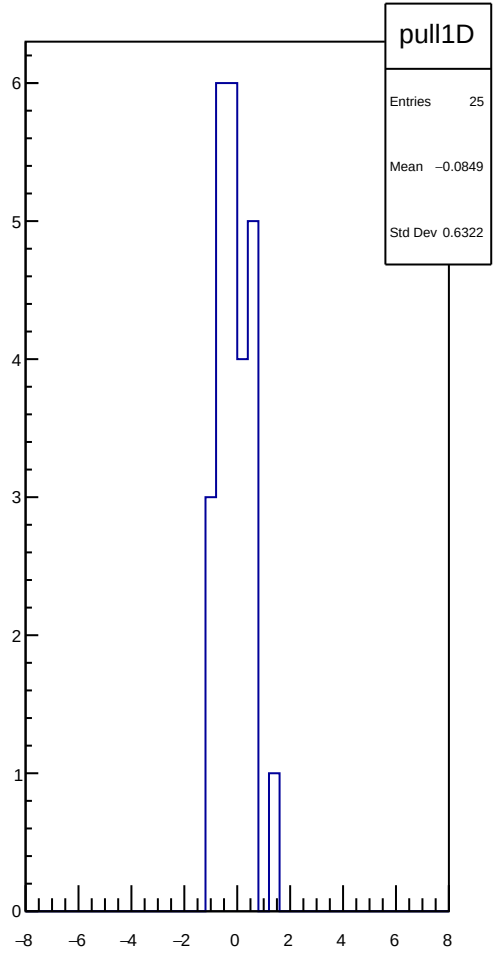

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 134.4 / 24
p0 −35.88 ± 0.1371
−32
−34
−36
−38
−40
−42
−44
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 122
Std Dev 112.2
4
2
0
−2
−4
−6
−8

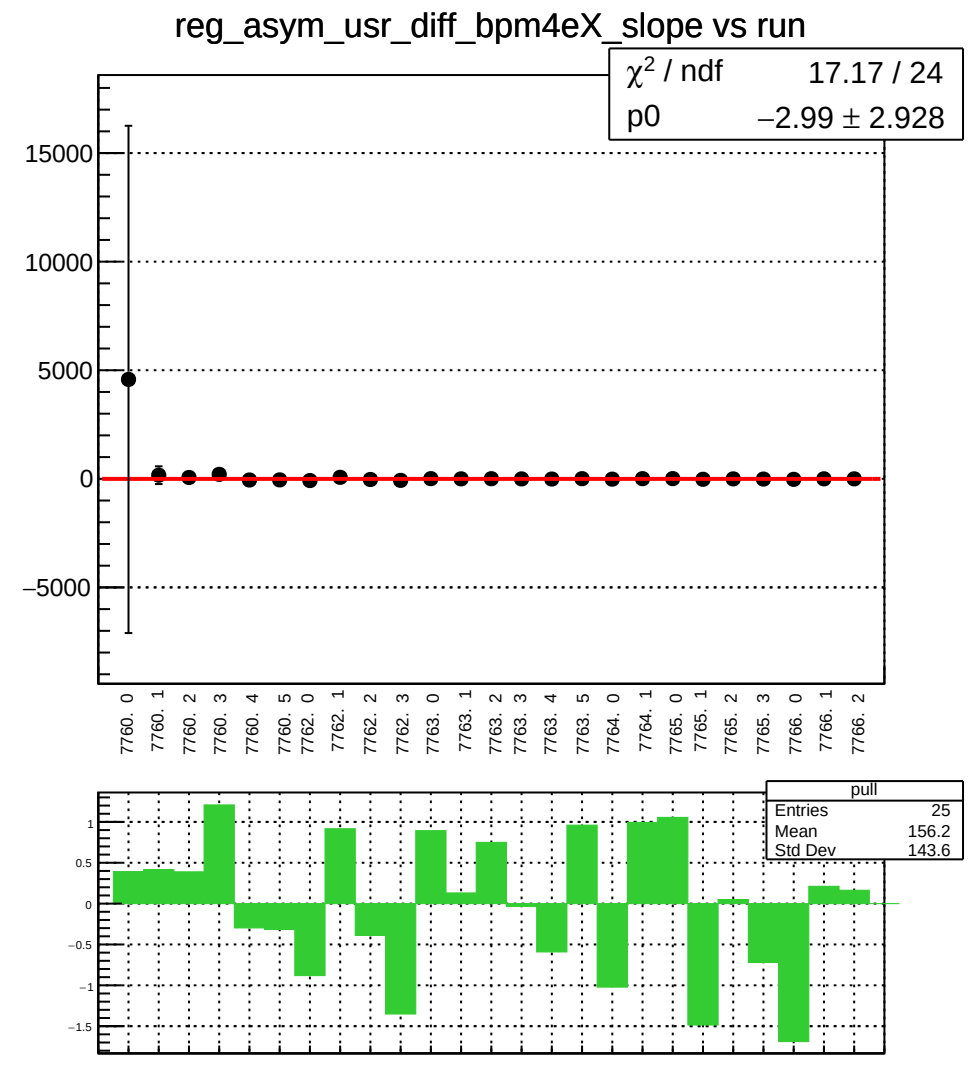

pull1D
Entries 25
Mean 0.3186
Std Dev 1.627
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

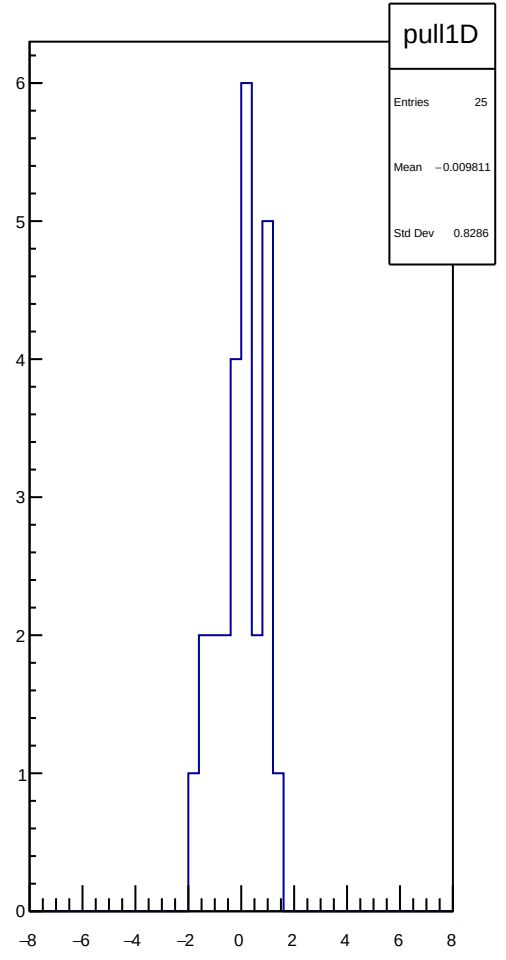

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 17.13 / 24
p0 2.872 ± 3.163
5000
0
−5000
−10000
−15000
−20000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 155.1
Std Dev 142.6
1.5
1
0.5
0
−0.5
−1

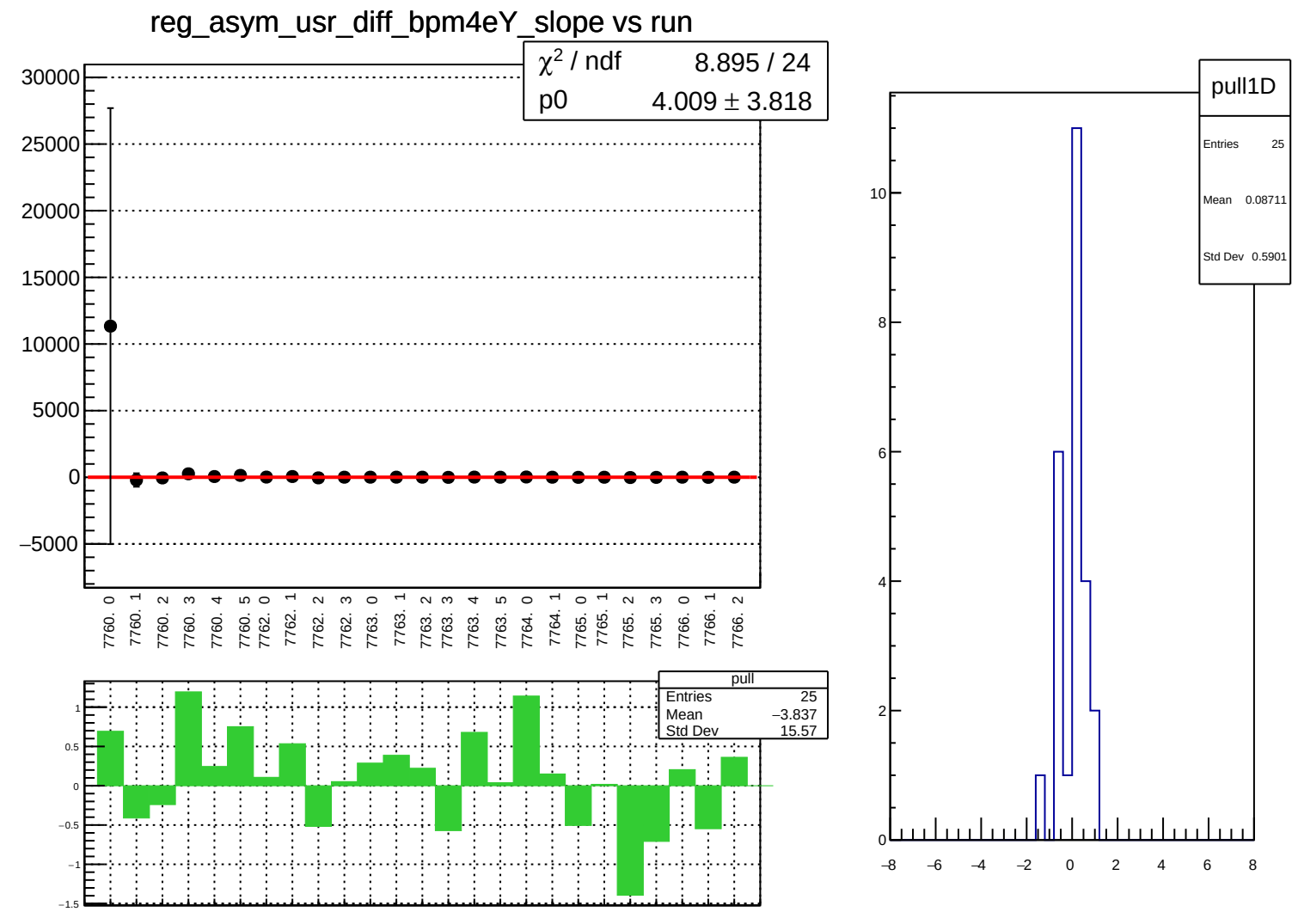

pull1D
Entries 25
Mean 0.009883
Std Dev 0.8277
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

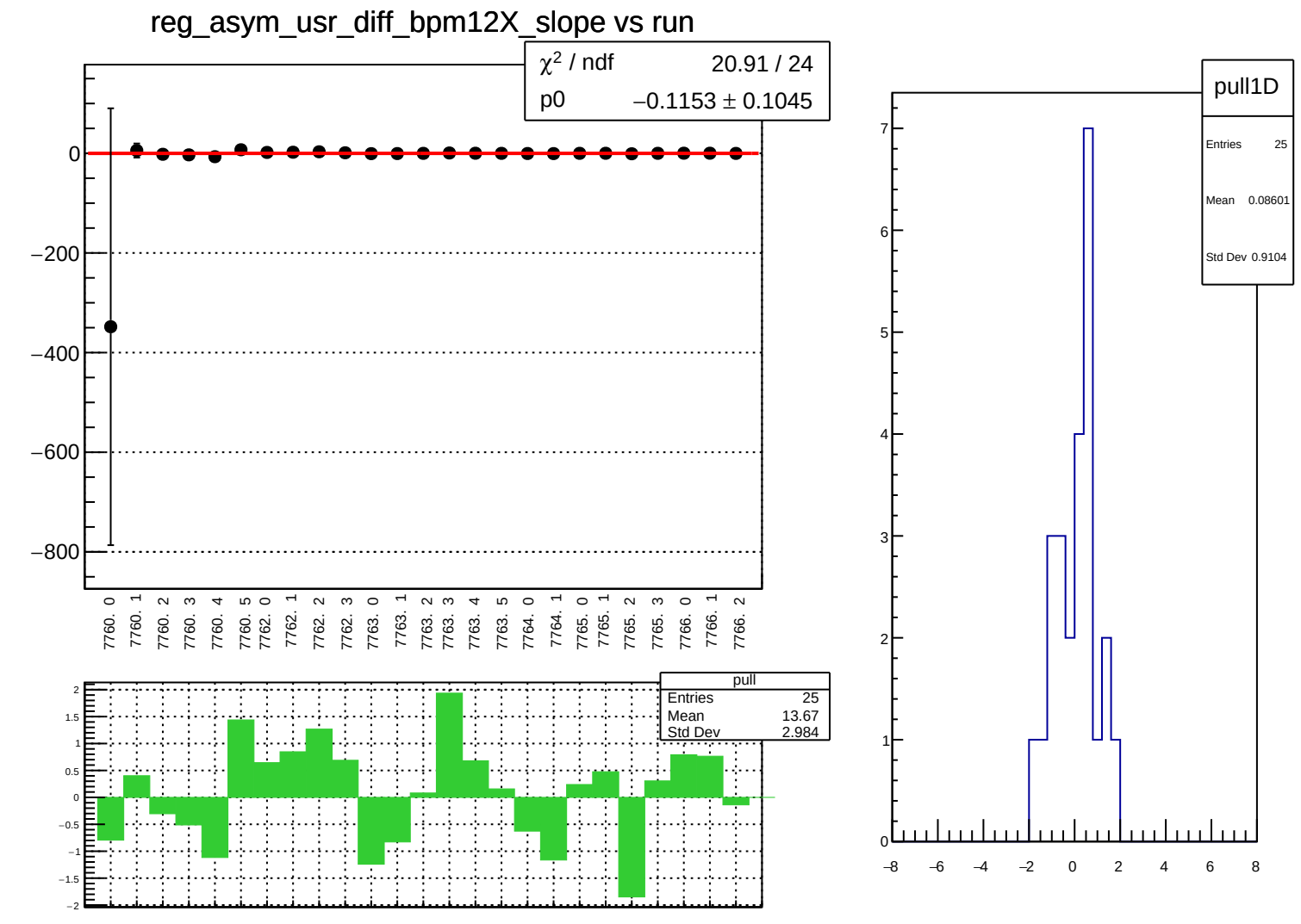

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 10.17 / 24
p0 −3.05 ± 3.39
5000
0
−5000
−10000
−15000
−20000
−25000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −3.022
Std Dev 14.76
1.5
1
0.5
0
−0.5
−1

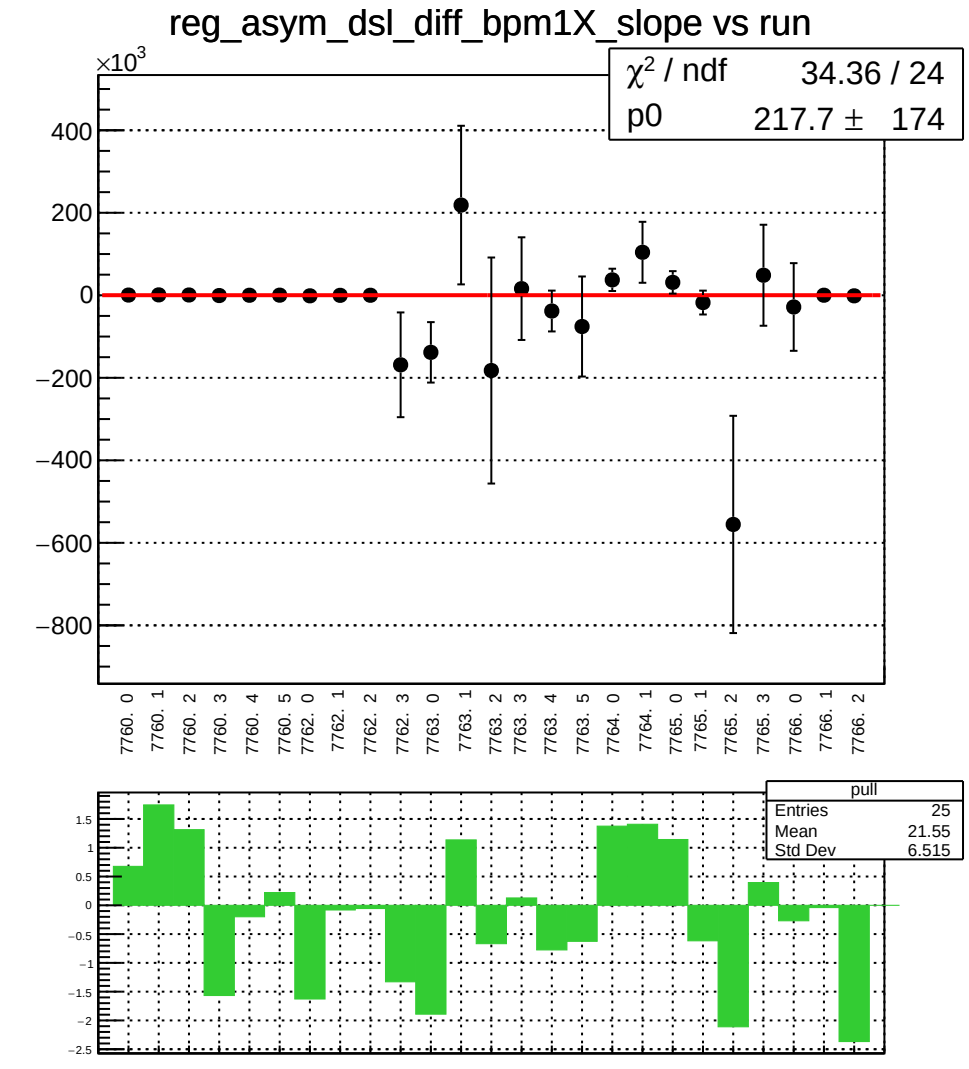

pull1D
Entries 25
Mean −0.0849
Std Dev 0.6322
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

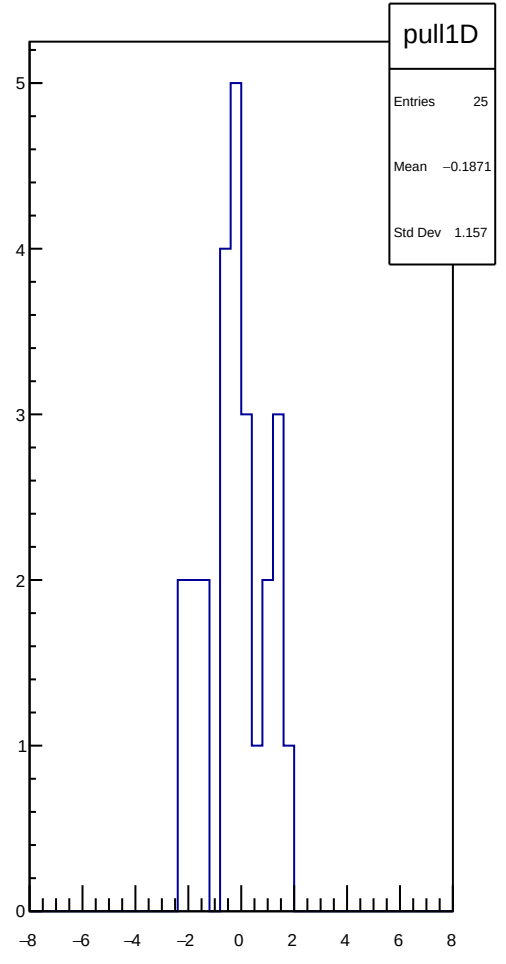

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 17.17 / 24
p0 −2.99 ± 2.928
15000
10000
5000
0
−5000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 156.2
Std Dev 143.6
1
0.5
0
−0.5
−1
−1.5

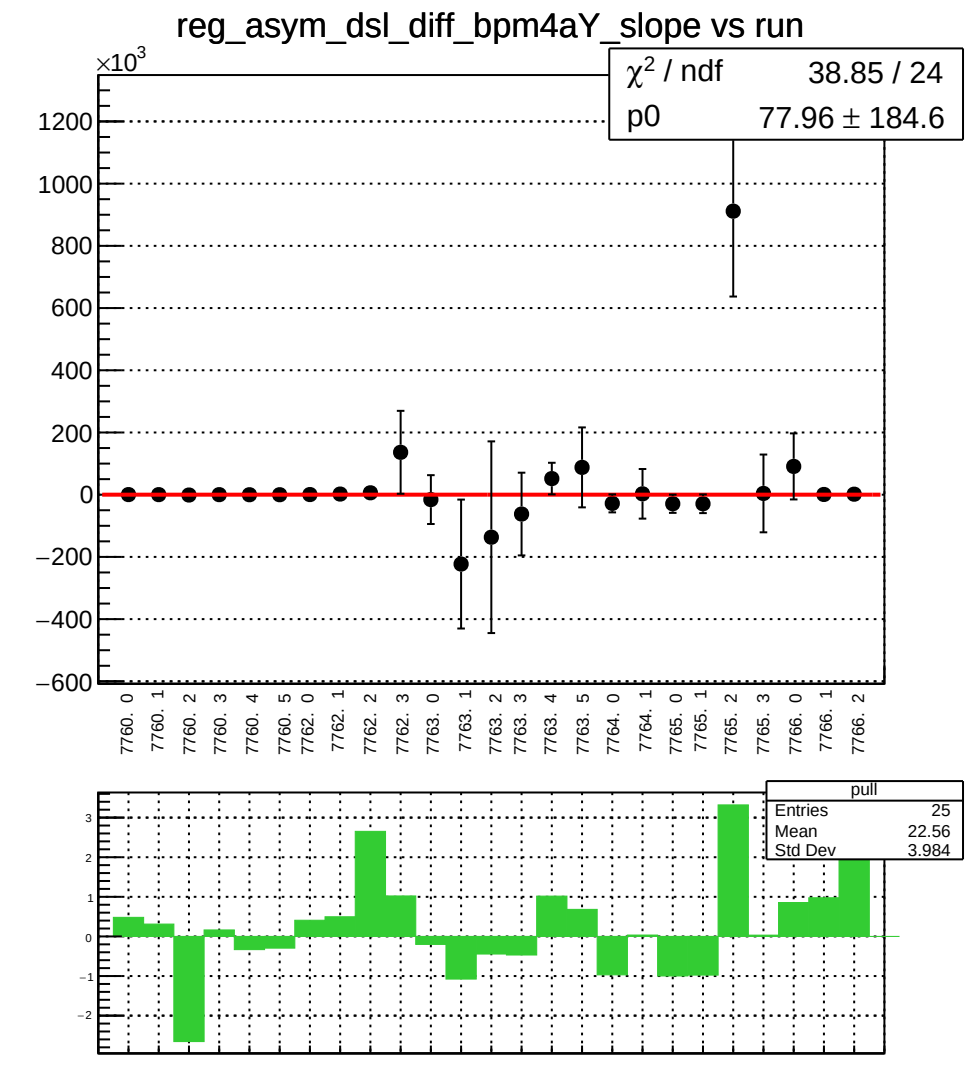

pull1D
Entries 25
Mean −0.009811
Std Dev 0.8286
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

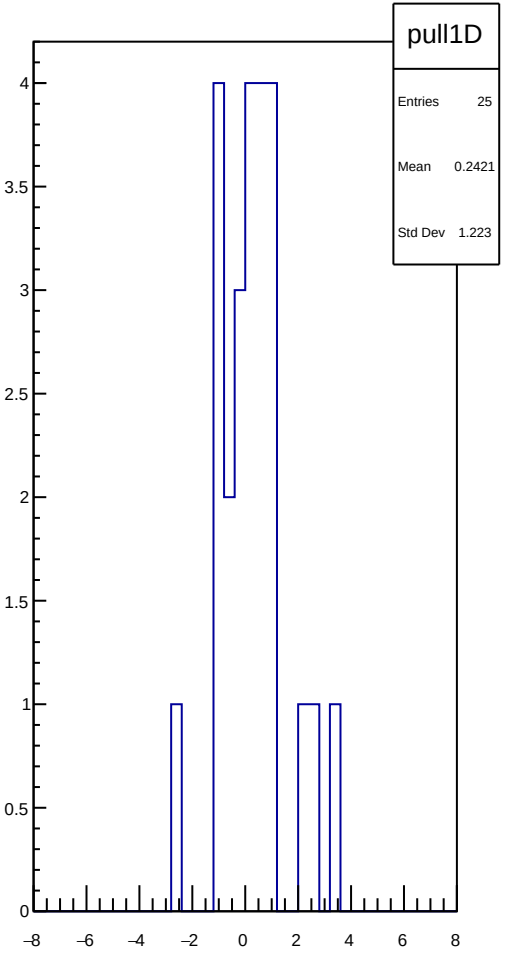

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 8.895 / 24
p0 4.009 ± 3.818
30000
25000
20000
15000
10000
5000
0
−5000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −3.837
Std Dev 15.57
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 25
Mean 0.08711
Std Dev 0.5901
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

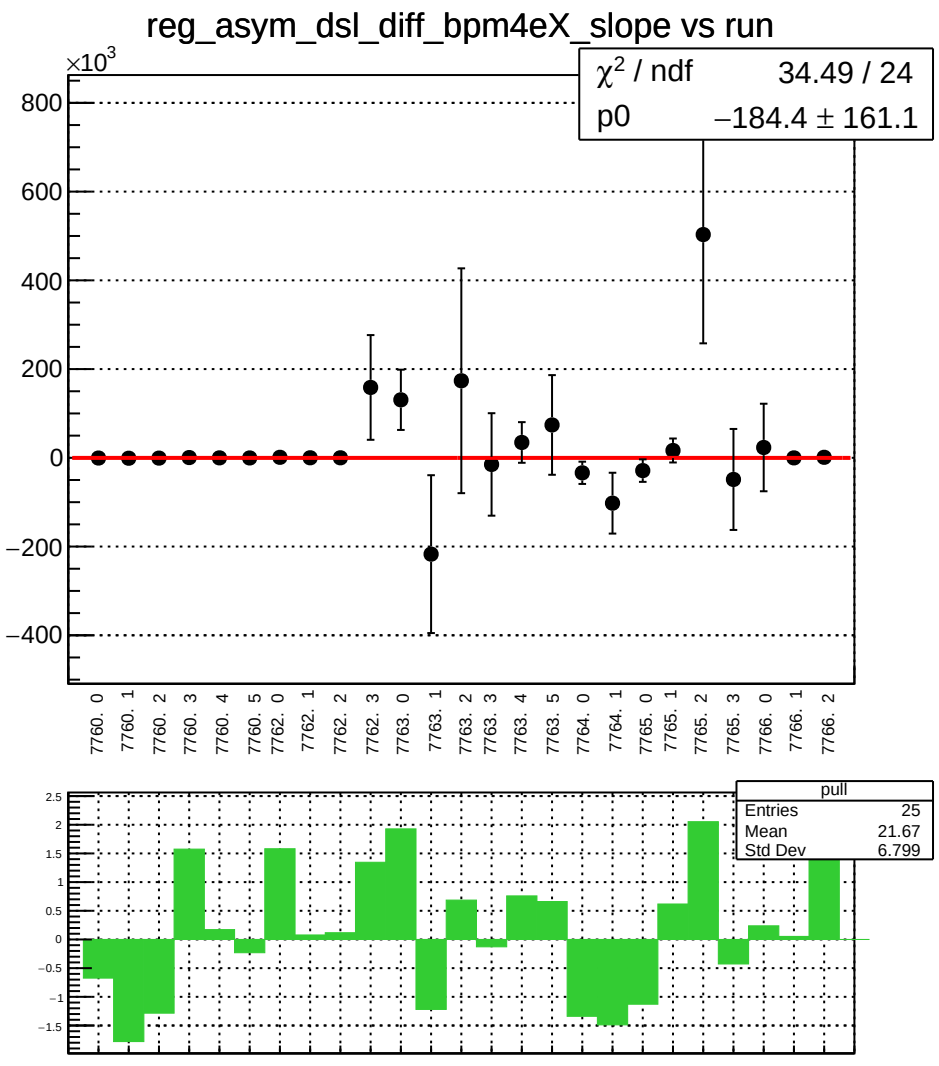

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 20.91 / 24
p0 −0.1153 ± 0.1045
0
−200
−400
−600
−800
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 13.67
Std Dev 2.984
pull1D
Entries 25
Mean 0.08601
Std Dev 0.9104

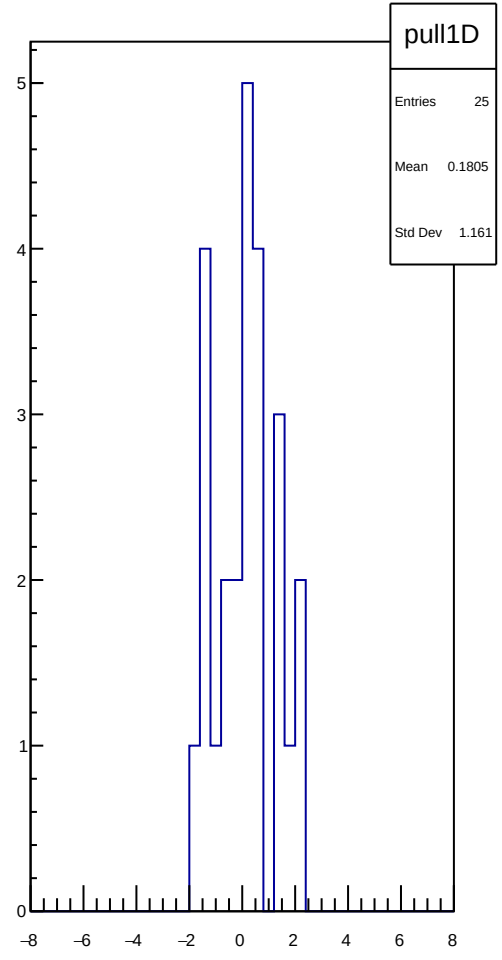

reg_asym_dsl_diff_bpm1X_slope vs run
×10^3
χ^2 / ndf 34.36 / 24
p0 217.7 ± 174
400
200
0
−200
−400
−600
−800
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 21.55
Std Dev 6.515
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

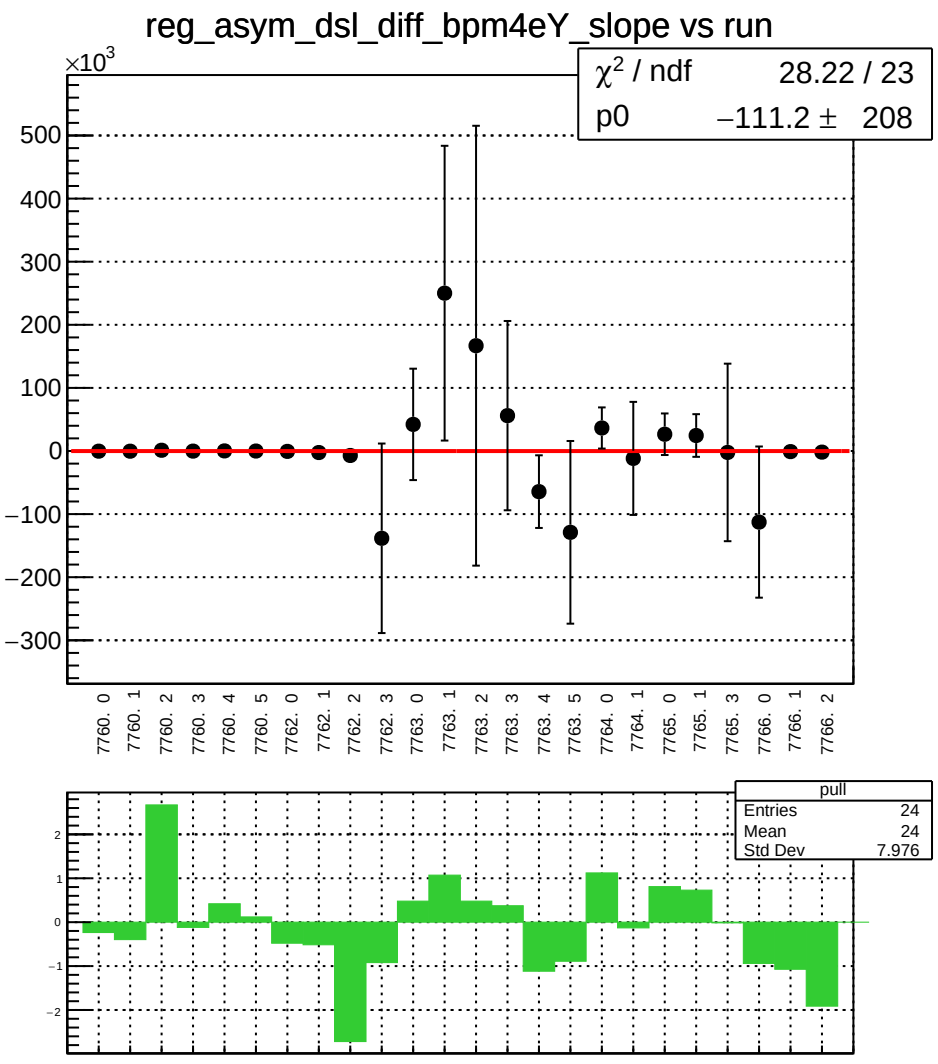

pull1D
Entries 25
Mean −0.1871
Std Dev 1.157
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

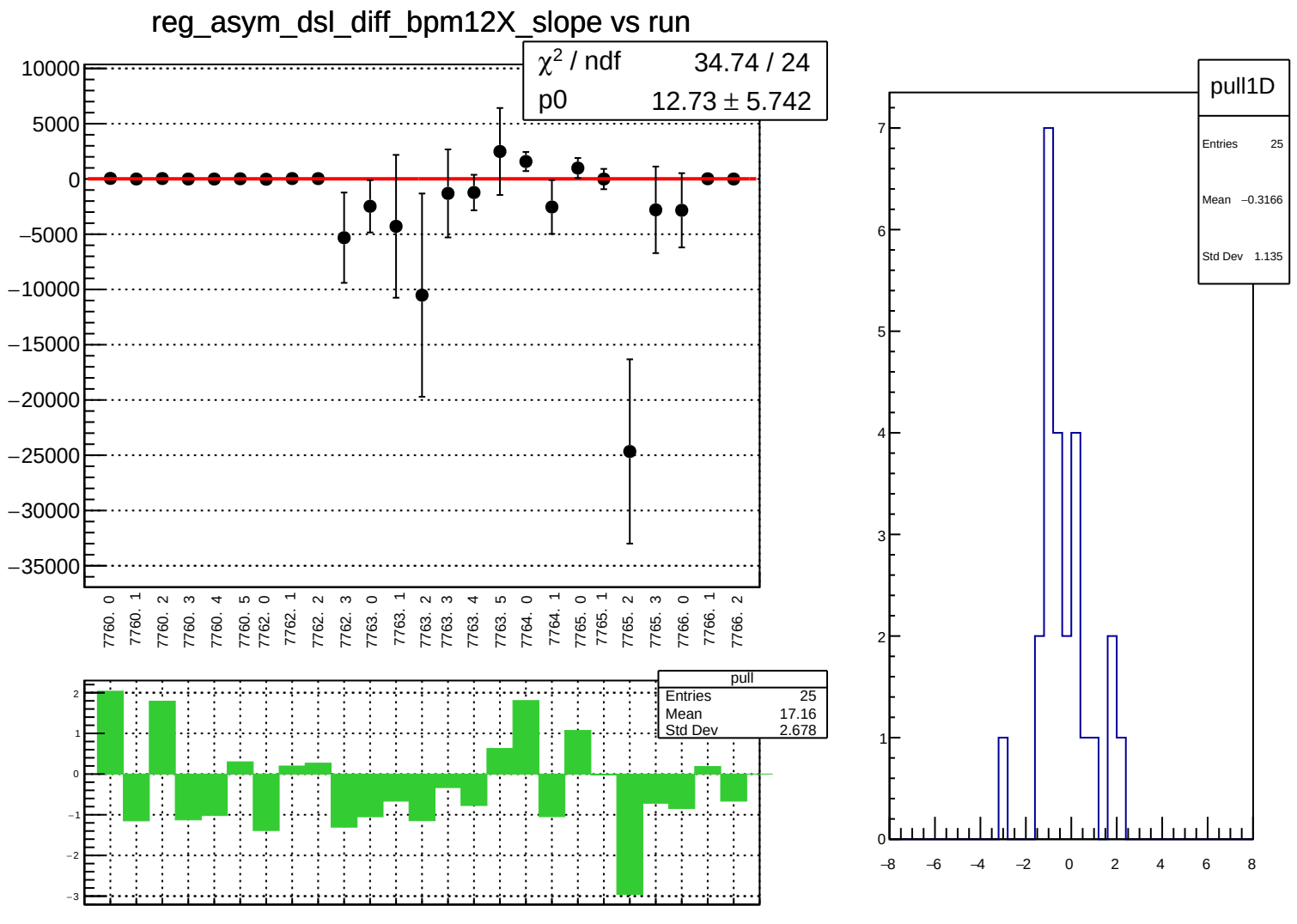

reg_asym_dsl_diff_bpm4aY_slope vs run
×10^3
χ^2 / ndf 38.85 / 24
p0 77.96 ± 184.6
1200
1000
800
600
400
200
0
−200
−400
−600
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 22.56
Std Dev 3.984
3
2
1
0
−1
−2

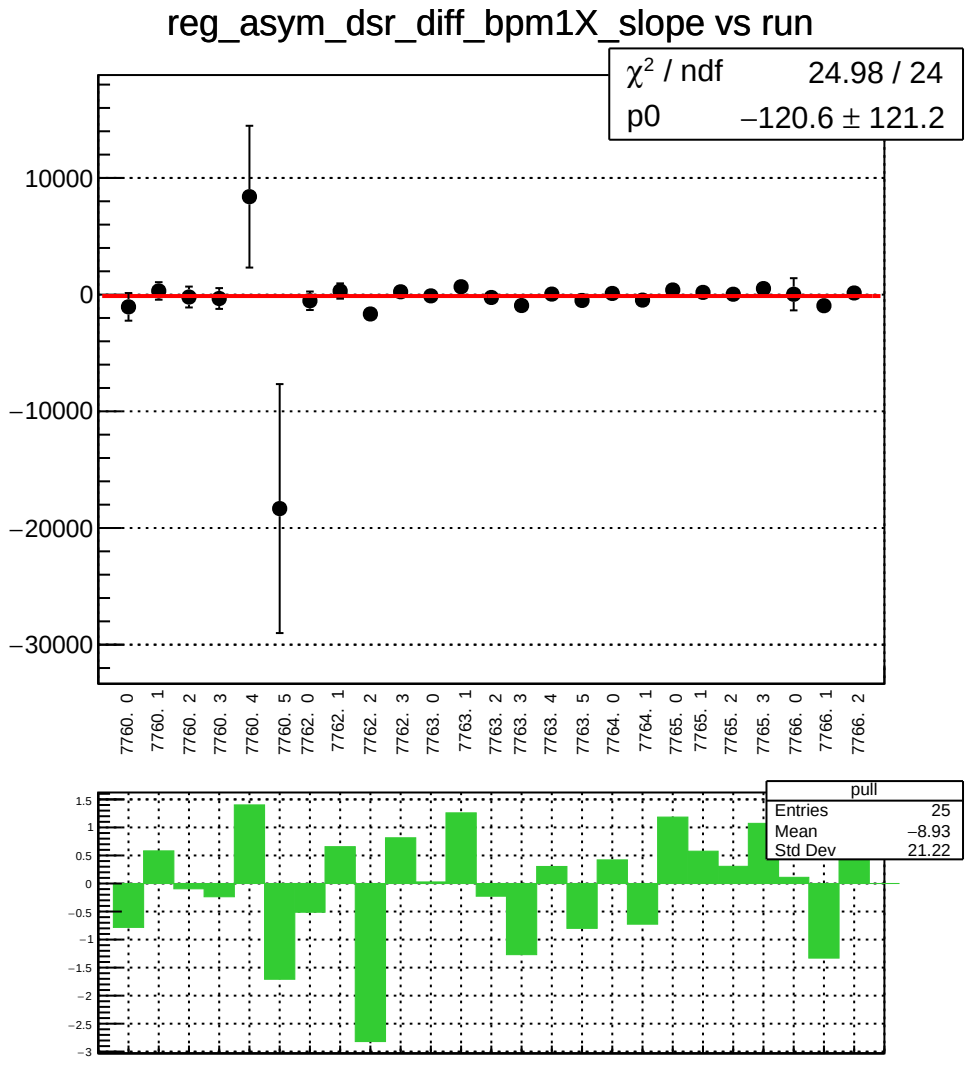

pull1D
Entries 25
Mean 0.2421
Std Dev 1.223
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

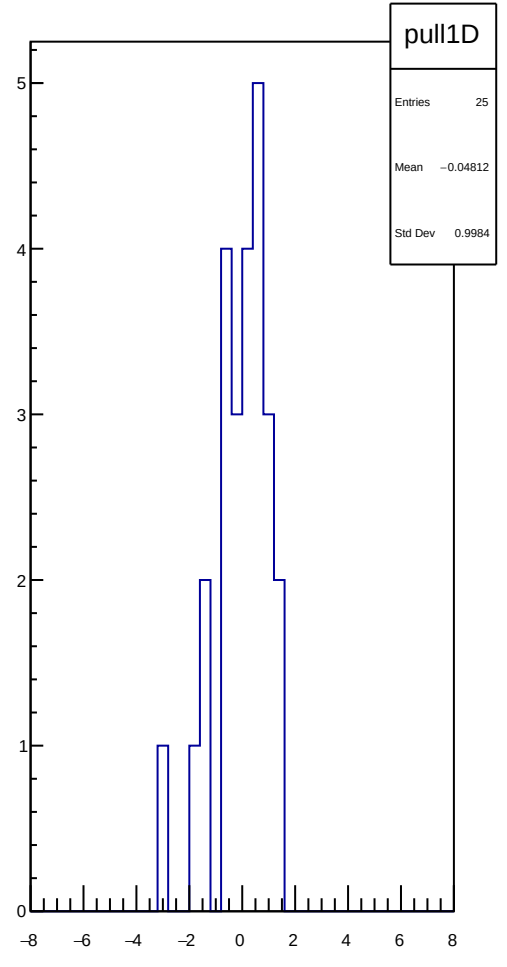

reg_asym_dsl_diff_bpm4eX_slope vs run
×10^3
χ^2 / ndf 34.49 / 24
p0 −184.4 ± 161.1
800
600
400
200
0
−200
−400
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 21.67
Std Dev 6.799
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

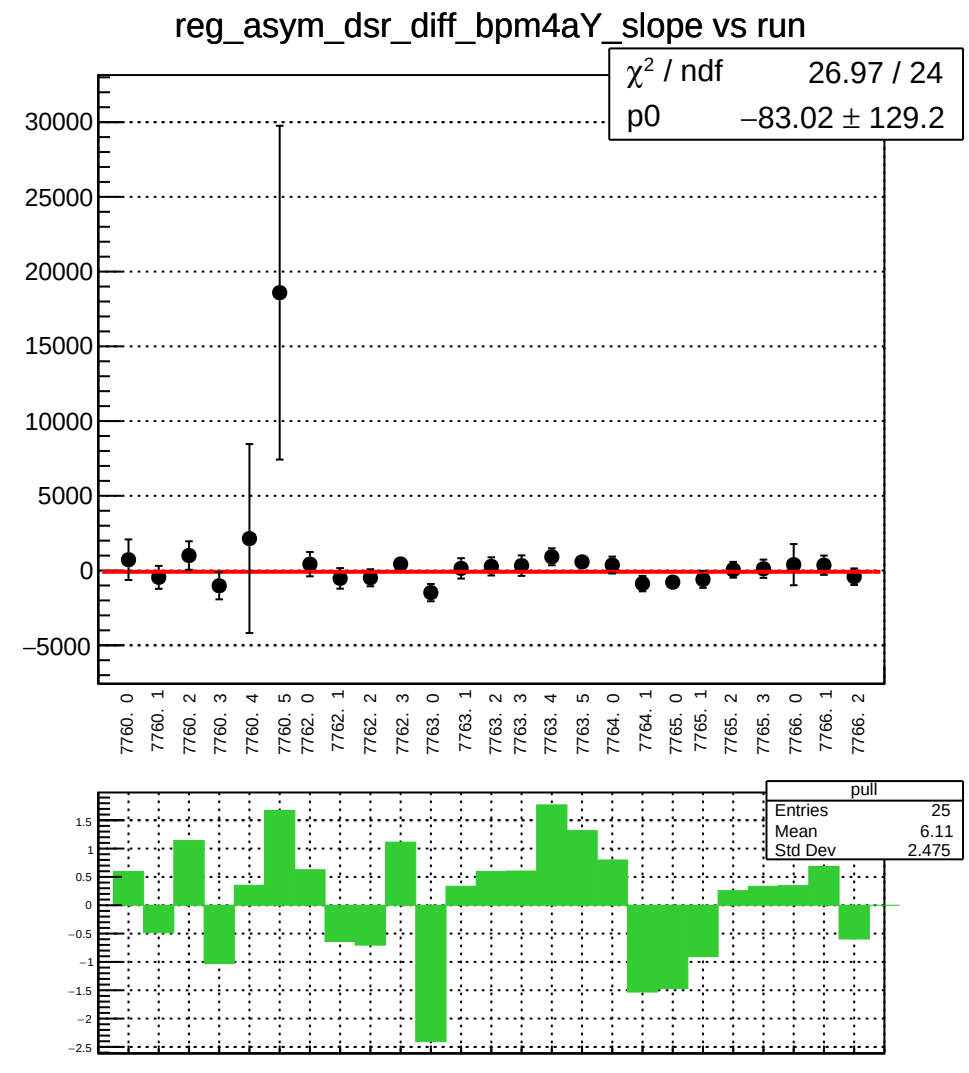

pull1D
Entries 25
Mean 0.1805
Std Dev 1.161
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

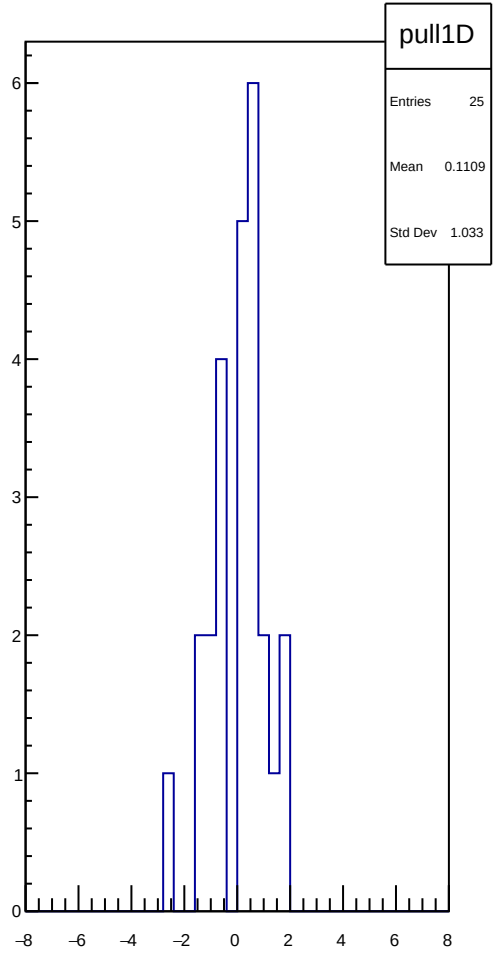

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 28.22 / 23
p0 −111.2 ± 208
×10³
500
400
300
200
100
0
−100
−200
−300
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 24
Mean 24
Std Dev 7.976
2
1
0
−1
−2
pull1D
Entries 24
Mean −0.1327
Std Dev 1.076
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

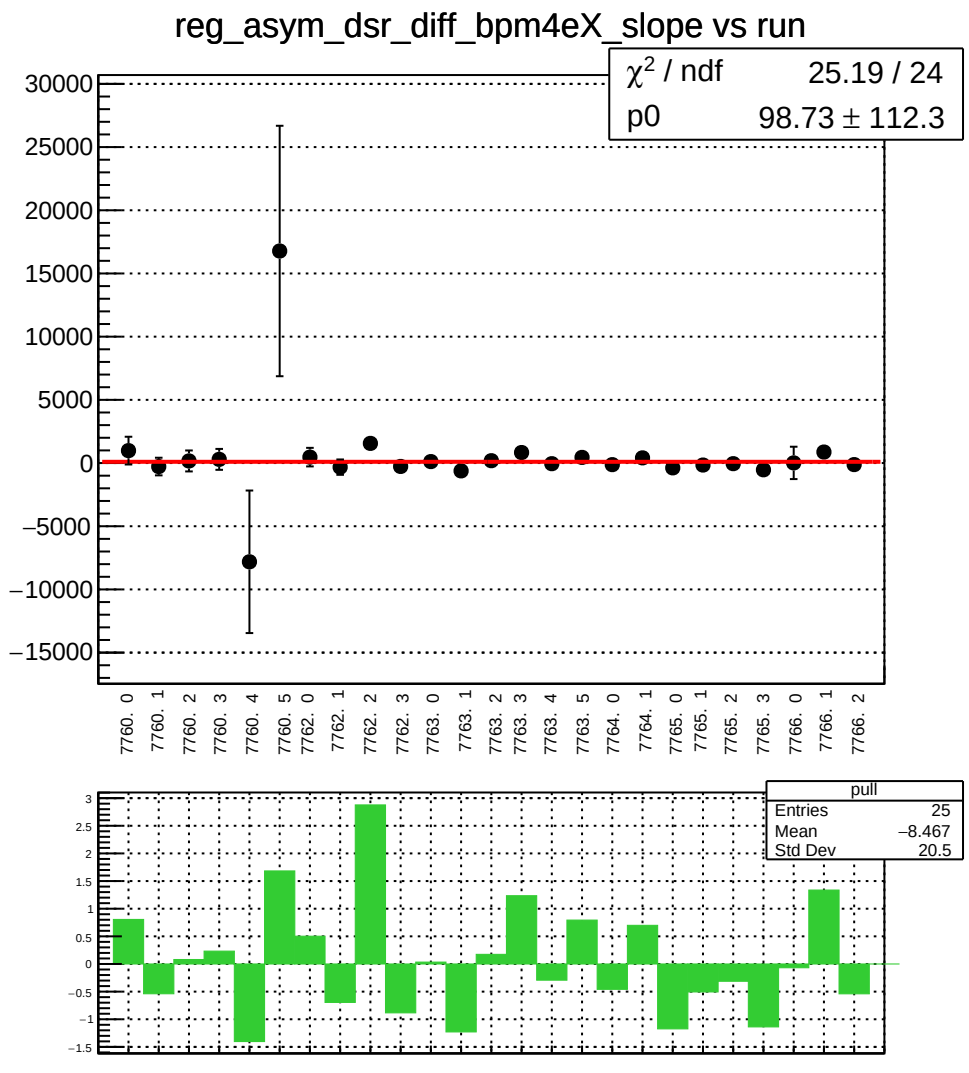

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 34.74 / 24
p0 12.73 ± 5.742
10000
5000
0
−5000
−10000
−15000
−20000
−25000
−30000
−35000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 17.16
Std Dev 2.678
2
1
0
−1
−2
−3
pull1D
Entries 25
Mean −0.3166
Std Dev 1.135
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

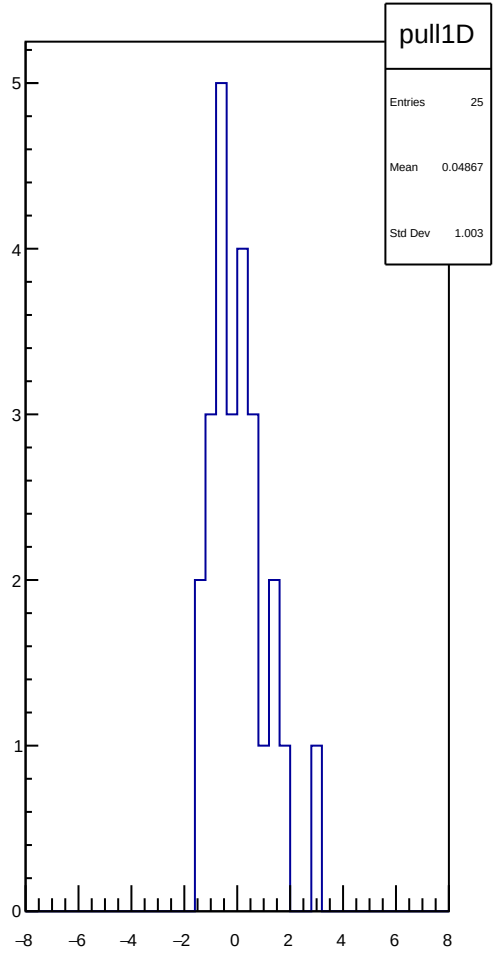

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 24.98 / 24
p0 −120.6 ± 121.2
10000
0
−10000
−20000
−30000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −8.93
Std Dev 21.22
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

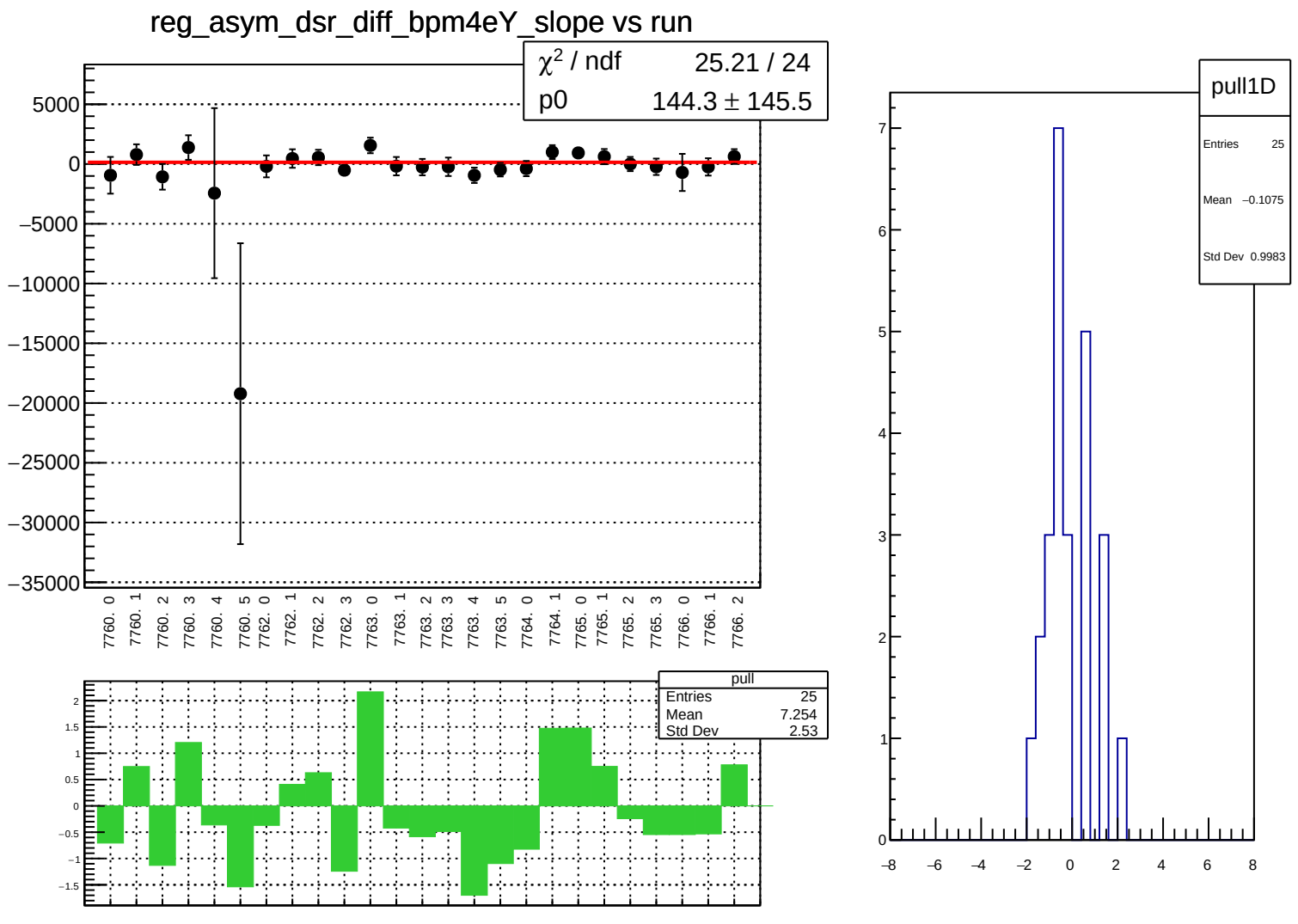

pull1D
Entries 25
Mean −0.04812
Std Dev 0.9984
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

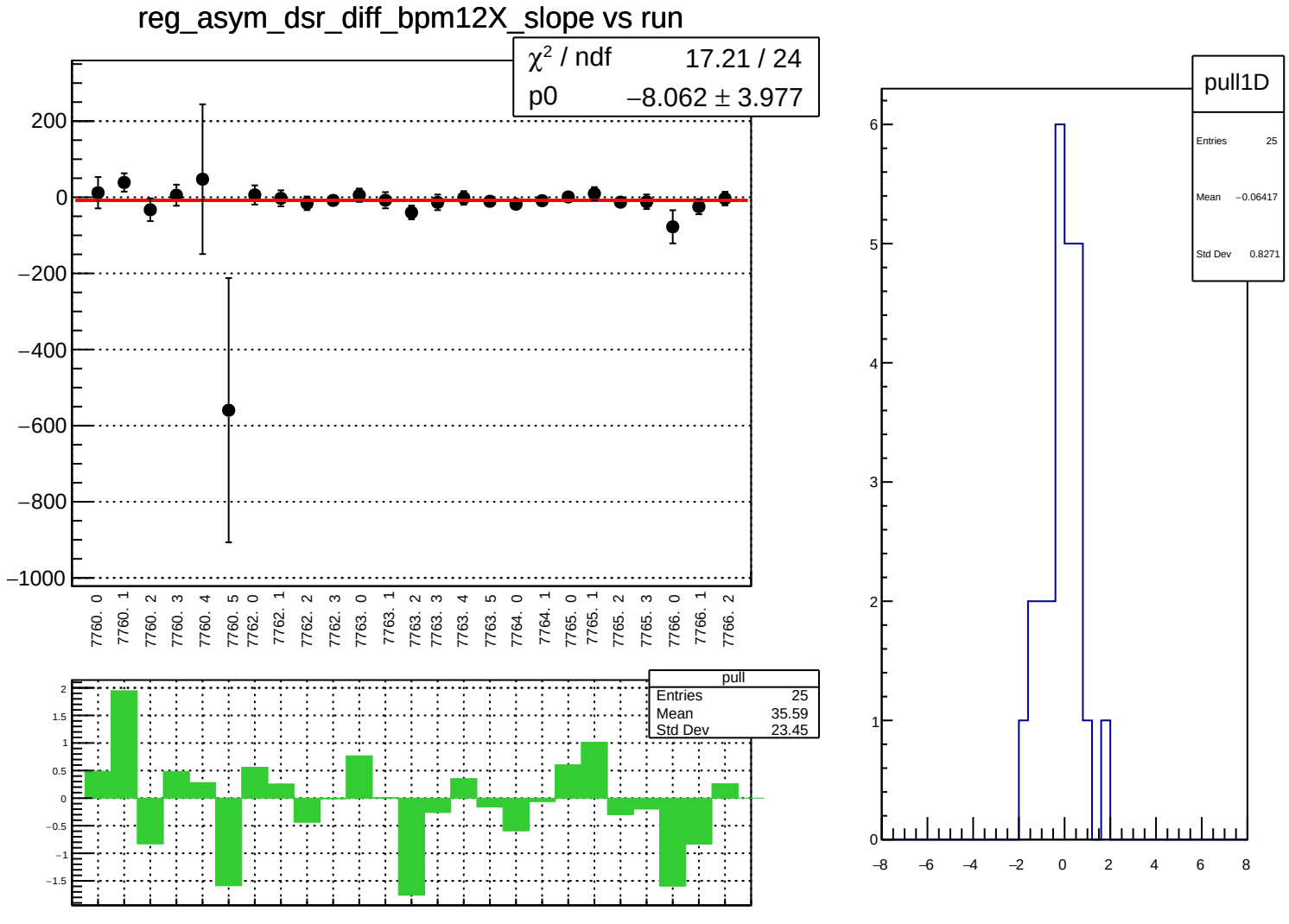

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 26.97 / 24
p0 −83.02 ± 129.2
30000
25000
20000
15000
10000
5000
0
−5000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 6.11
Std Dev 2.475
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

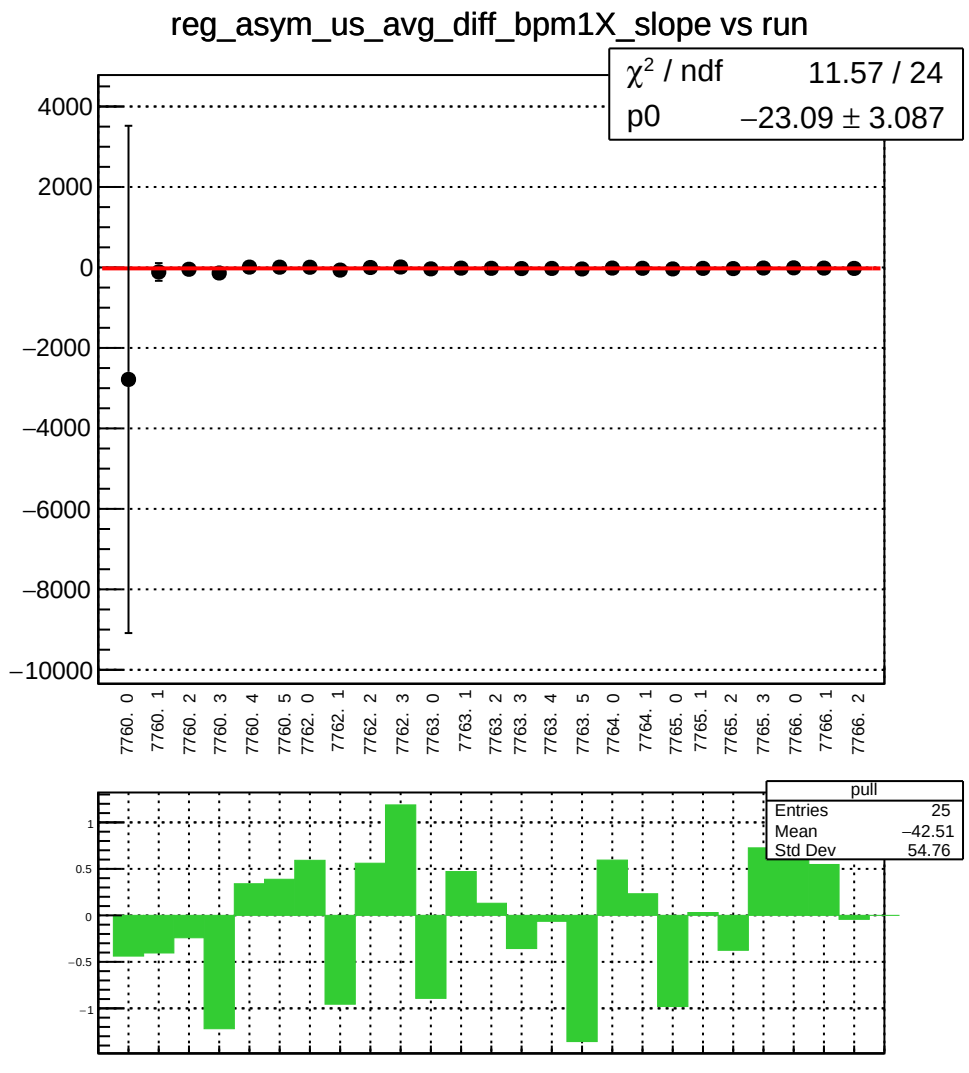

pull1D
Entries 25
Mean 0.1109
Std Dev 1.033
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

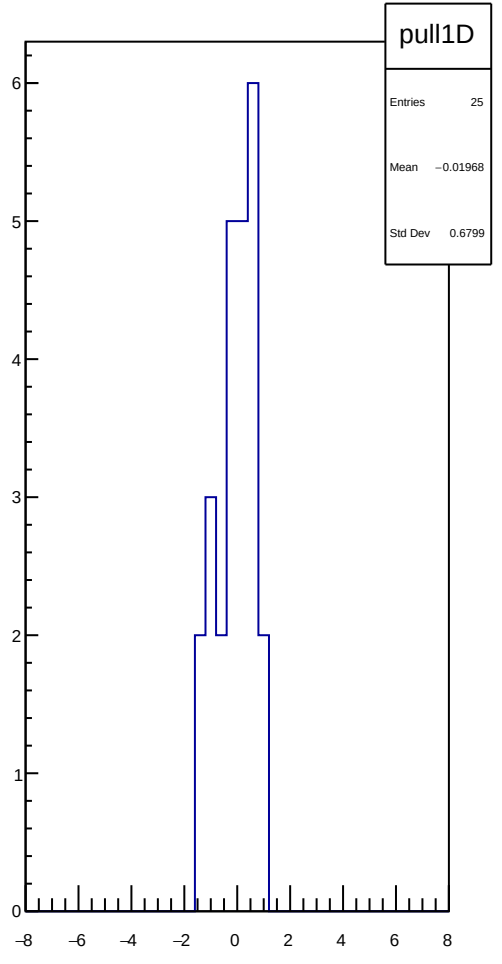

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 25.19 / 24
p0 98.73 ± 112.3
30000
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −8.467
Std Dev 20.5
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

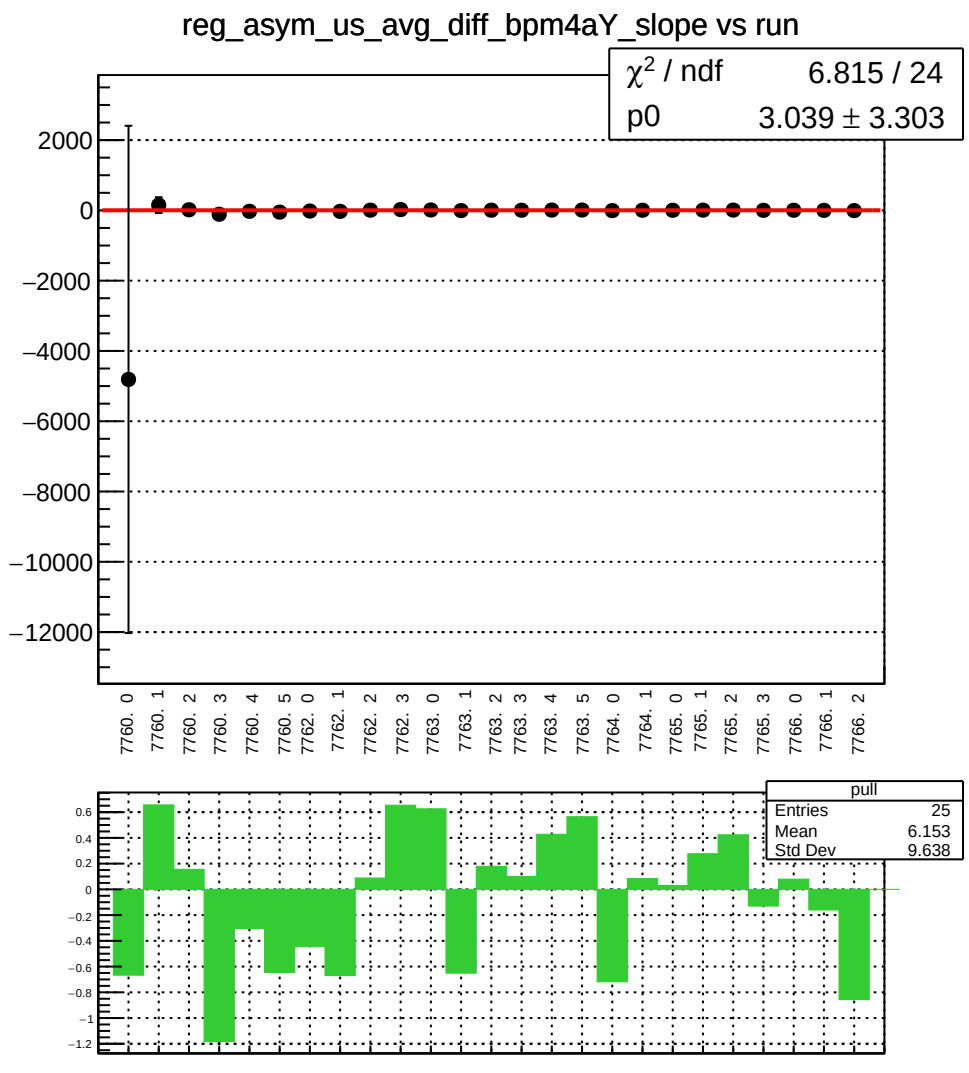

pull1D
Entries 25
Mean 0.04867
Std Dev 1.003
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

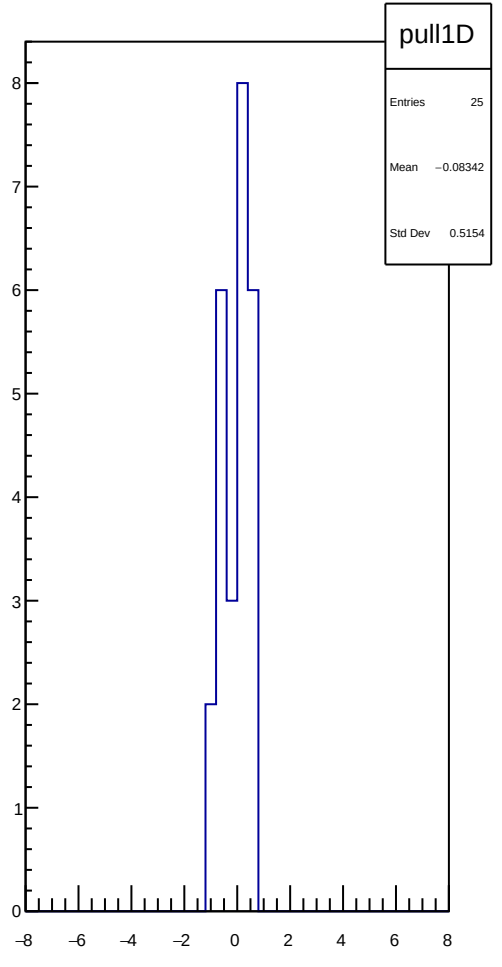

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 25.21 / 24
p0 144.3 ± 145.5
5000
0
−5000
−10000
−15000
−20000
−25000
−30000
−35000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 7.254
Std Dev 2.53
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 25
Mean −0.1075
Std Dev 0.9983
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

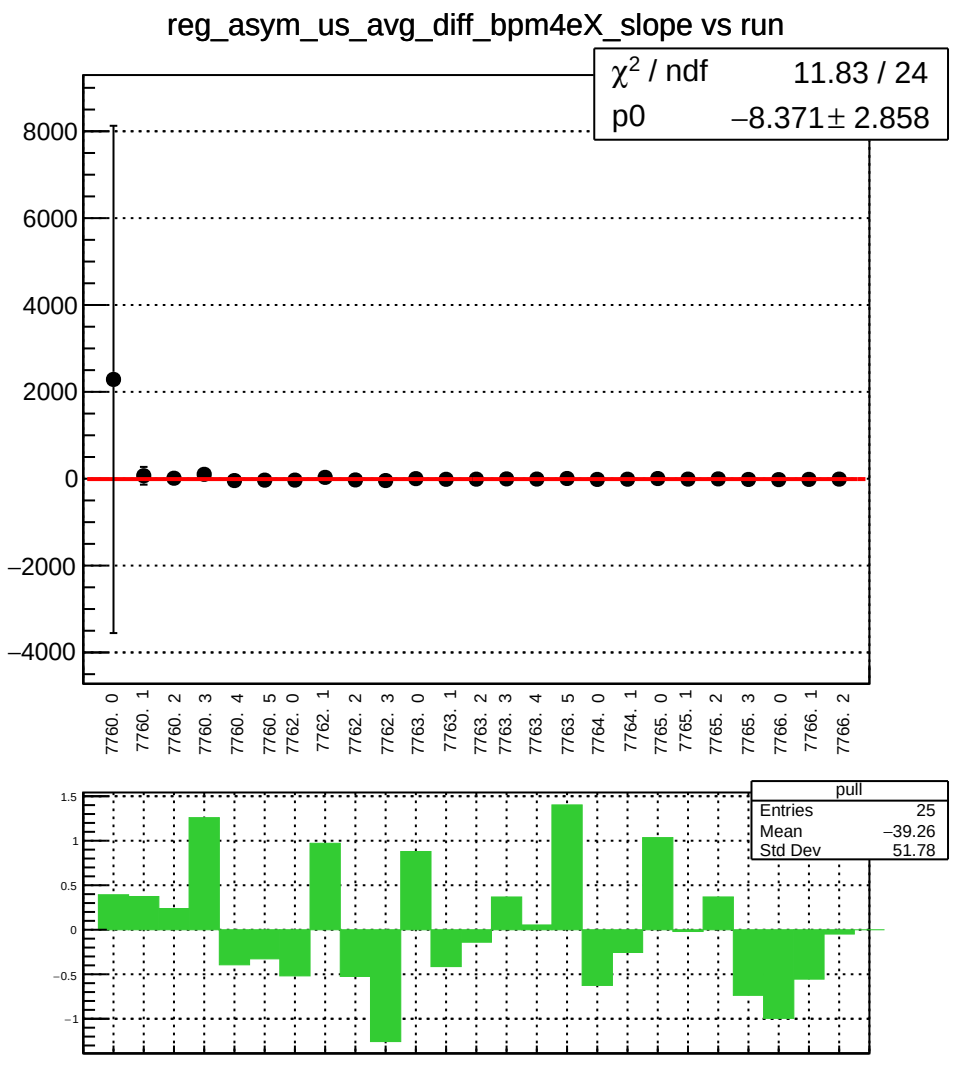

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 17.21 / 24
p0 −8.062 ± 3.977
200
0
−200
−400
−600
−800
−1000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 35.59
Std Dev 23.45
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 25
Mean −0.06417
Std Dev 0.8271
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

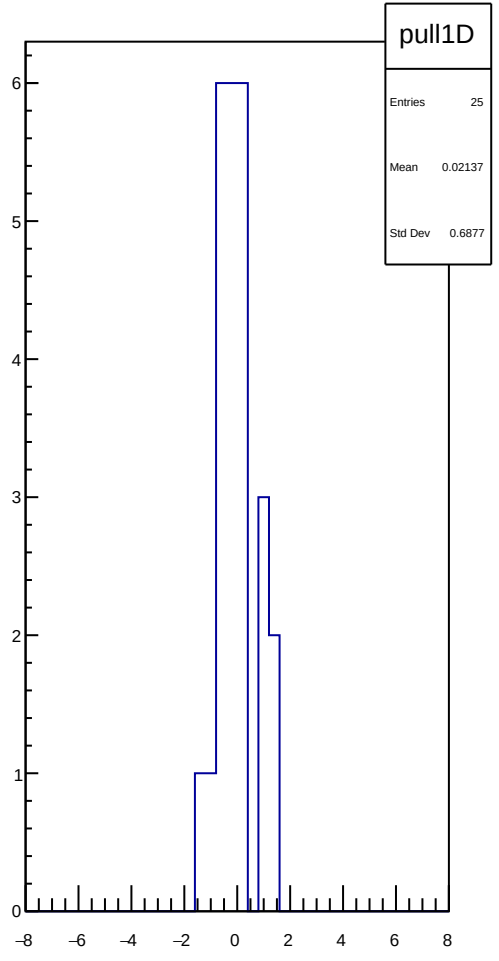

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 11.57 / 24
p0 −23.09 ± 3.087
4000
2000
0
−2000
−4000
−6000
−8000
−10000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −42.51
Std Dev 54.76
1
0.5
0
−0.5
−1

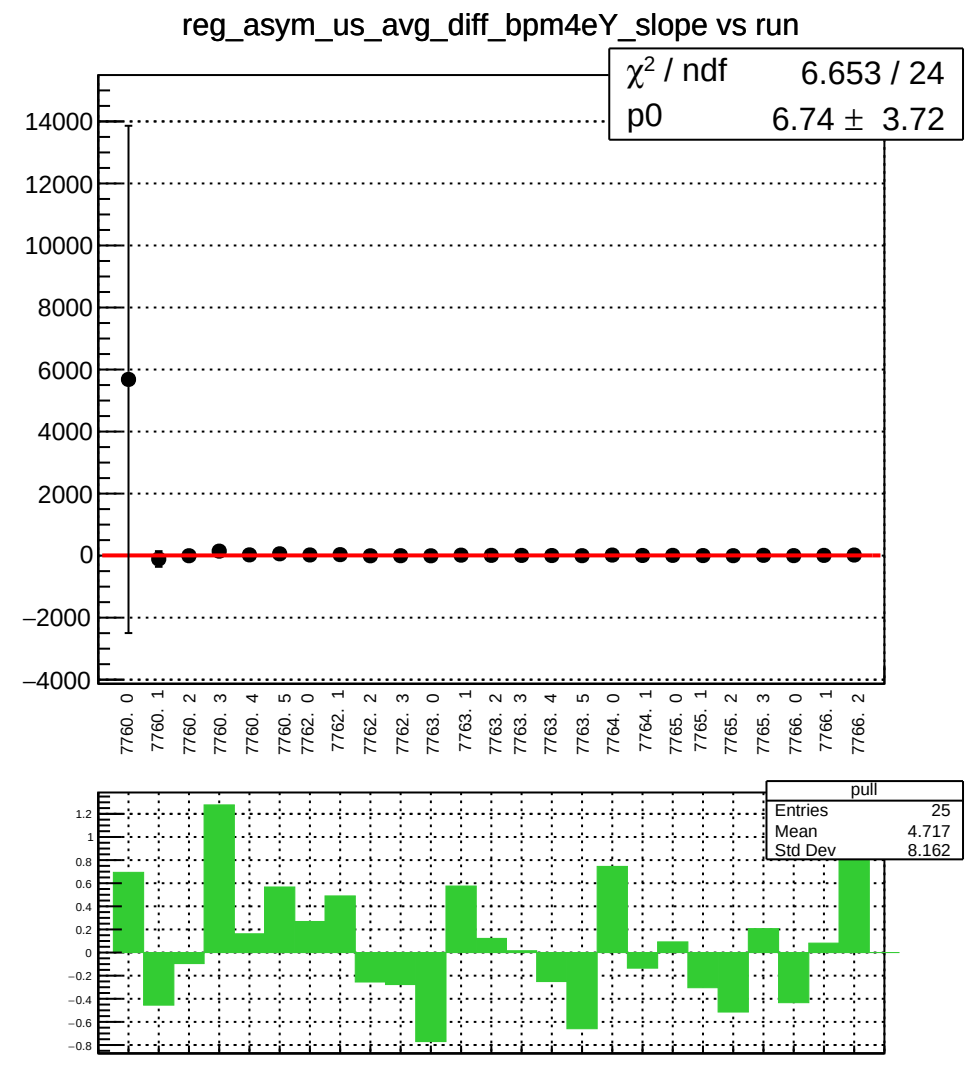

pull1D
Entries 25
Mean −0.01968
Std Dev 0.6799
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

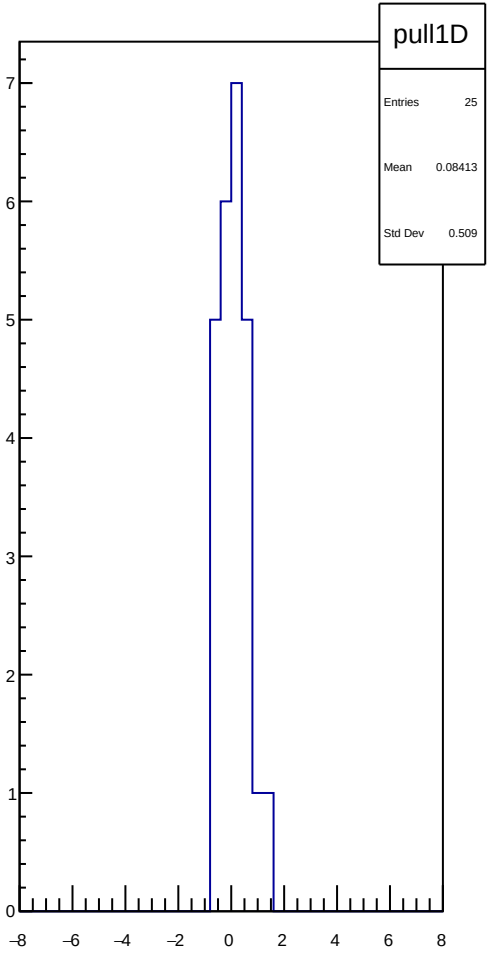

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.815 / 24
p0 3.039 ± 3.303
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 6.153
Std Dev 9.638
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

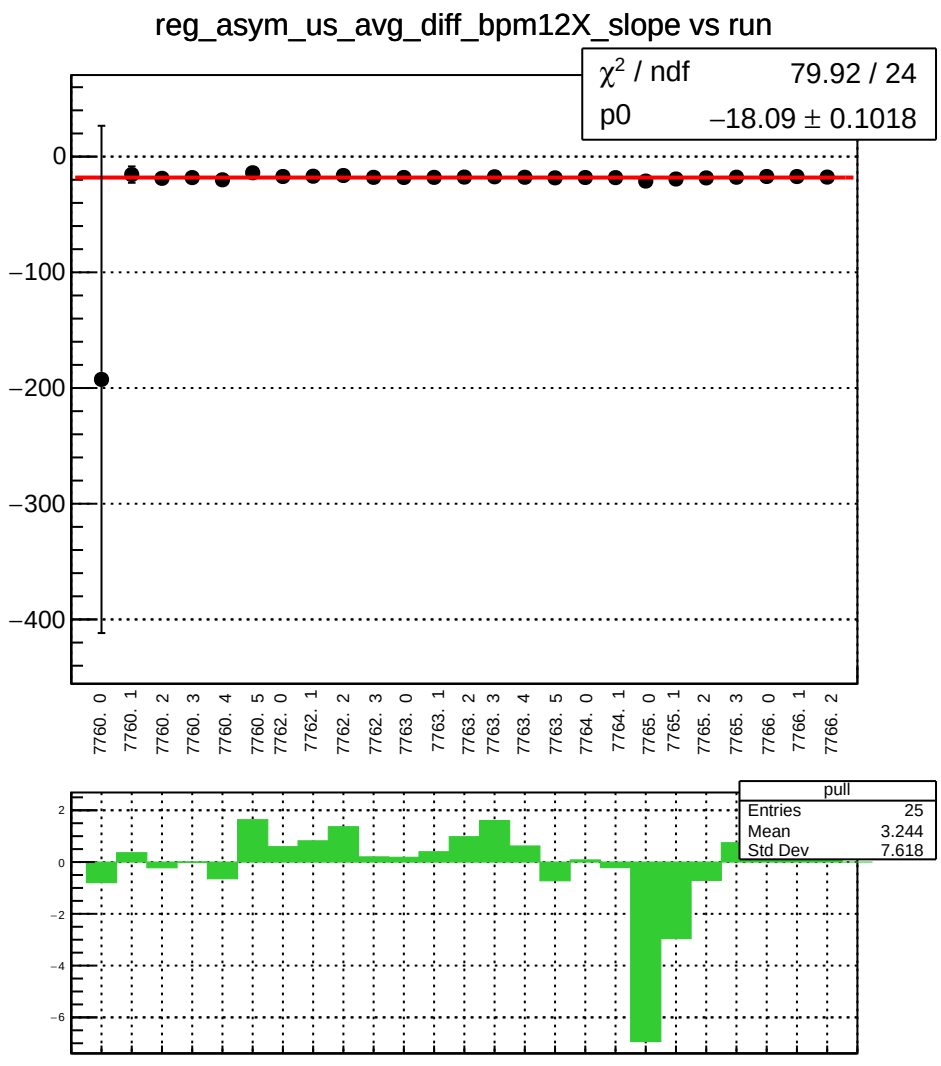

pull1D
Entries 25
Mean −0.08342
Std Dev 0.5154
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

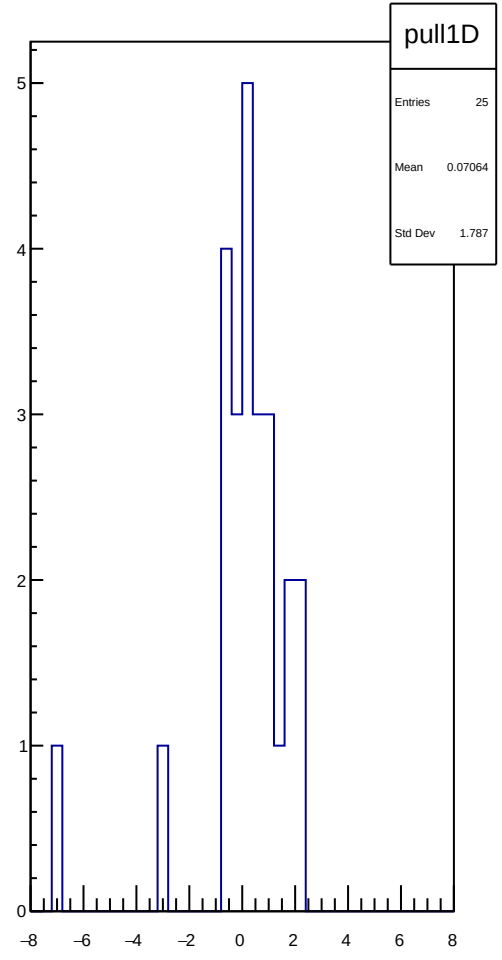

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 11.83 / 24
p0 −8.371 ± 2.858
8000
6000
4000
2000
0
−2000
−4000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −39.26
Std Dev 51.78
1.5
1
0.5
0
−0.5
−1

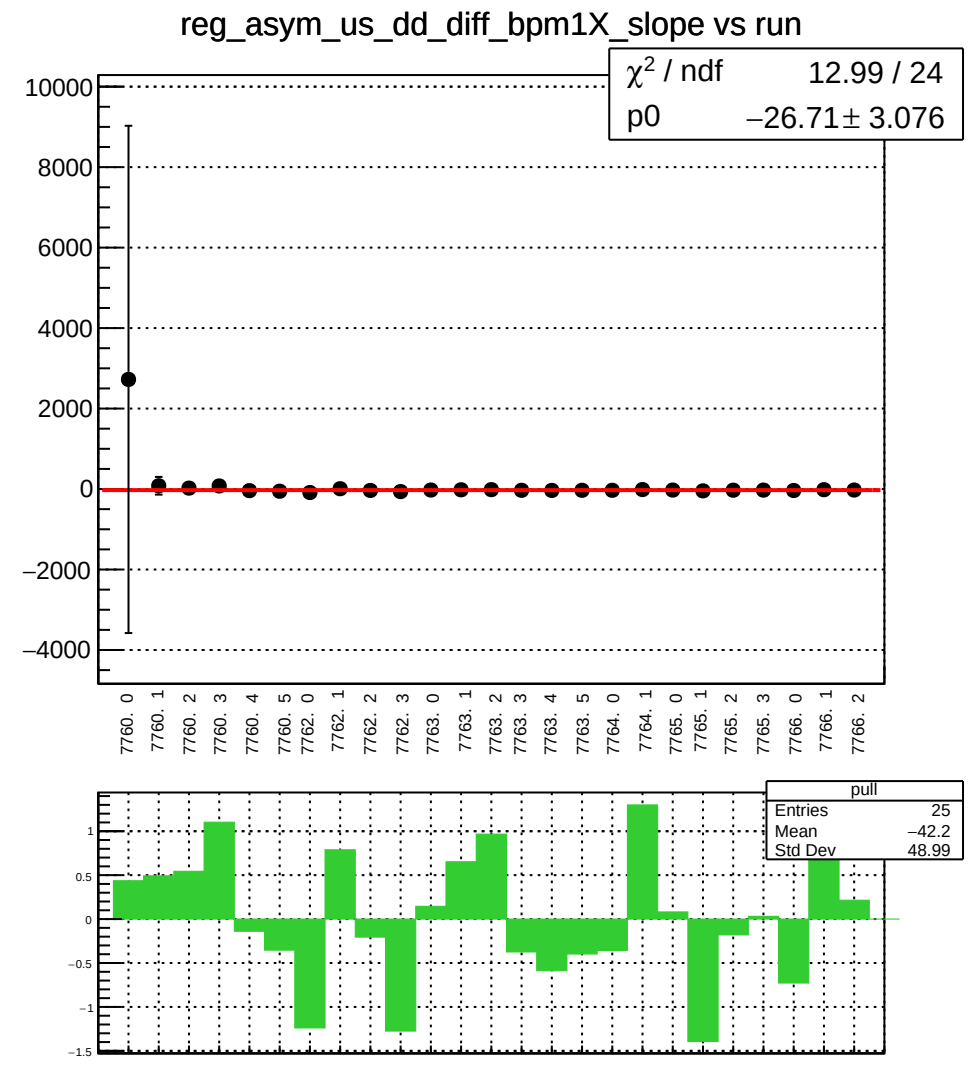

pull1D
Entries 25
Mean 0.02137
Std Dev 0.6877
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

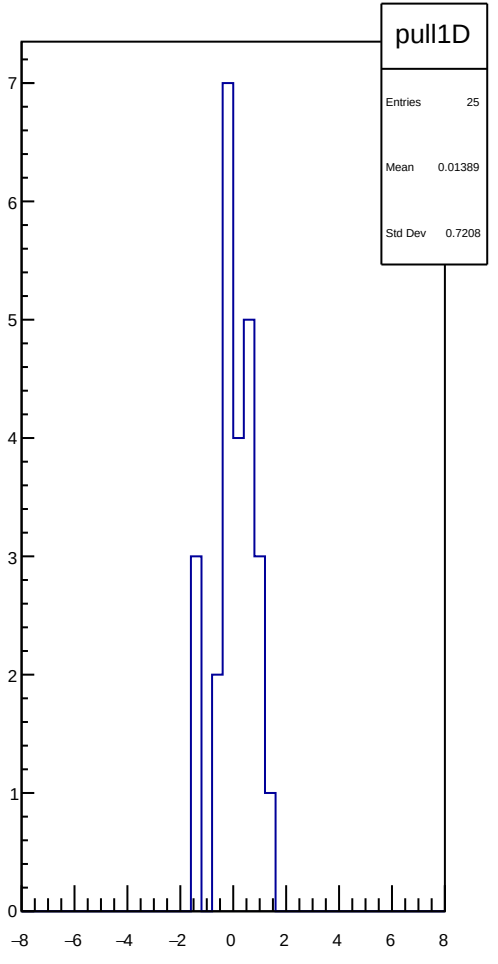

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.653 / 24
p0 6.74 ± 3.72
14000
12000
10000
8000
6000
4000
2000
0
−2000
−4000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 4.717
Std Dev 8.162
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

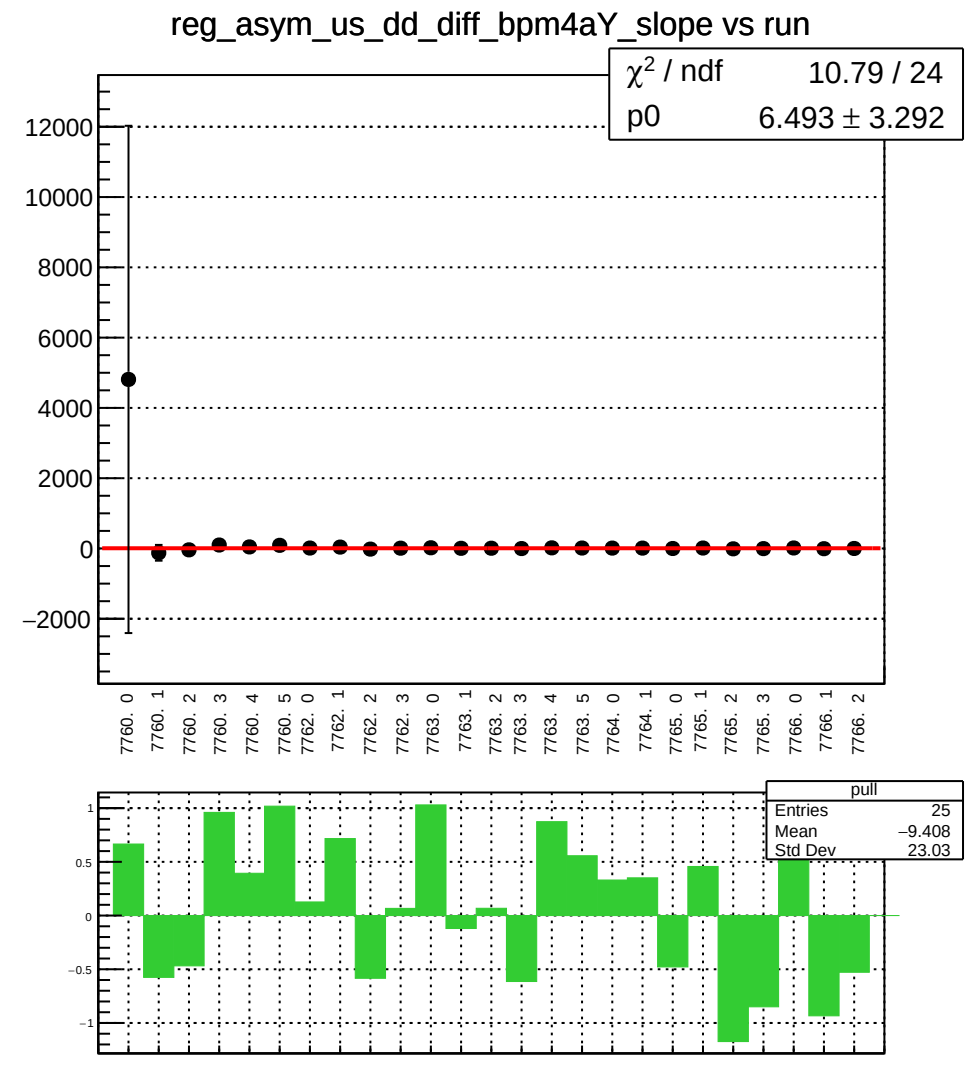

pull1D
Entries 25
Mean 0.08413
Std Dev 0.509
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

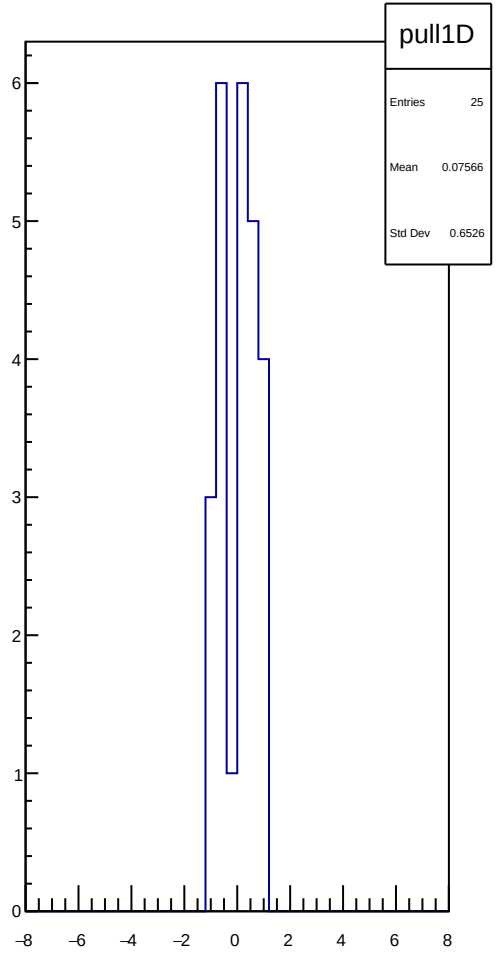

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 79.92 / 24
p0 −18.09 ± 0.1018
0
−100
−200
−300
−400
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 3.244
Std Dev 7.618
2
0
−2
−4
−6

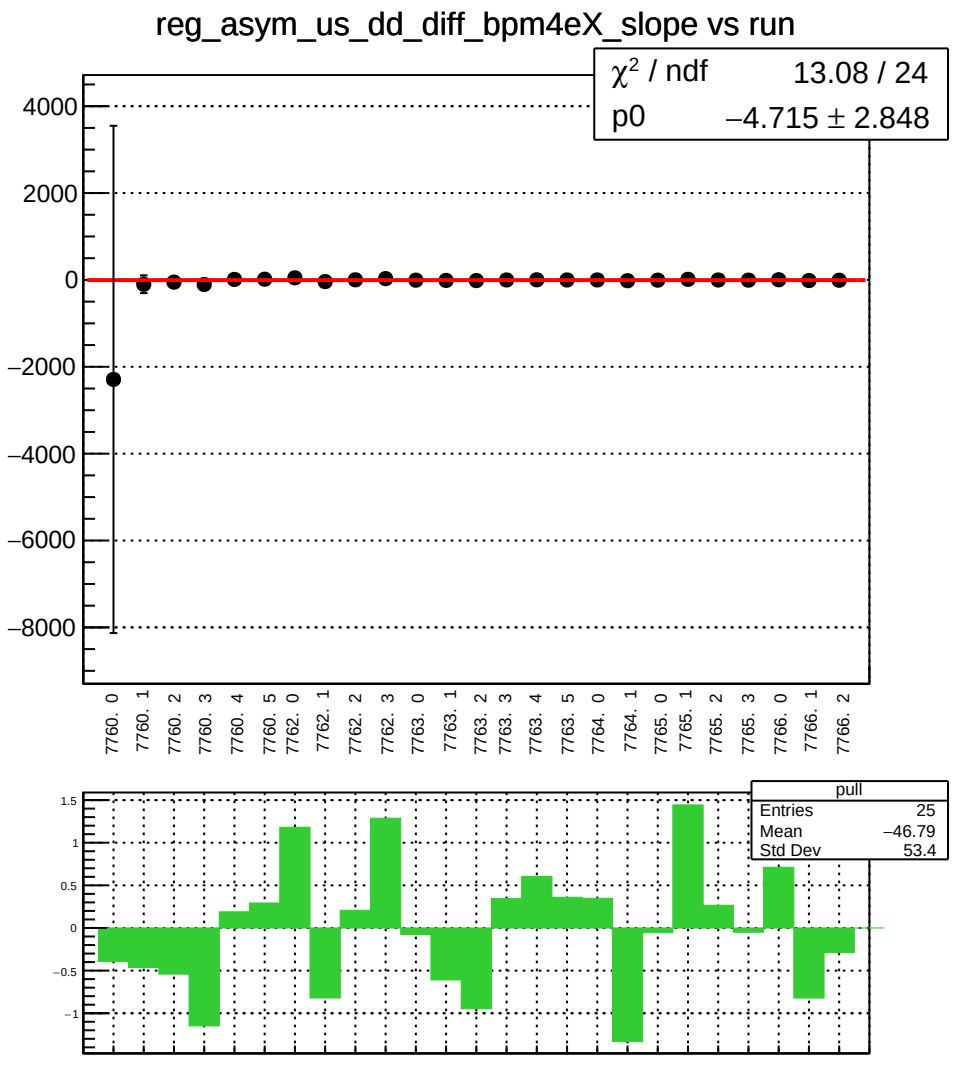

pull1D
Entries 25
Mean 0.07064
Std Dev 1.787
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

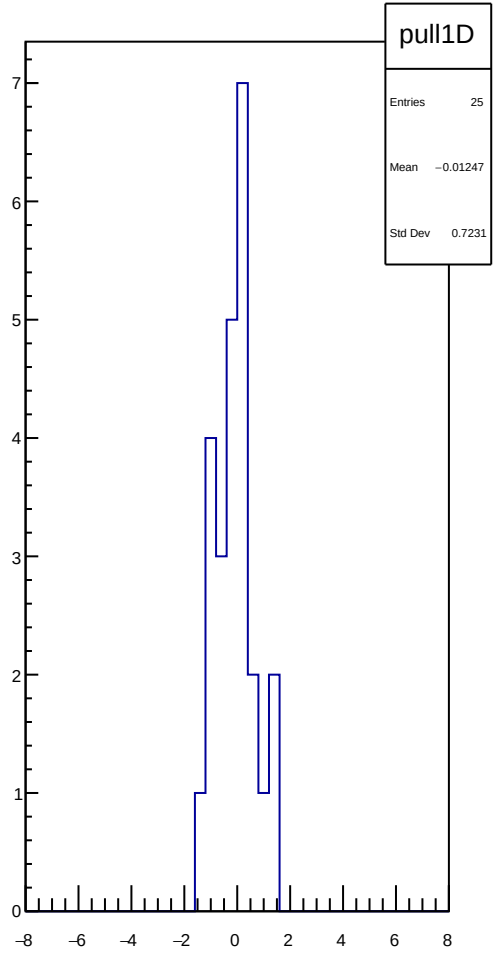

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 12.99 / 24
p0 −26.71 ± 3.076
10000
8000
6000
4000
2000
0
−2000
−4000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −42.2
Std Dev 48.99
1
0.5
0
−0.5
−1
−1.5

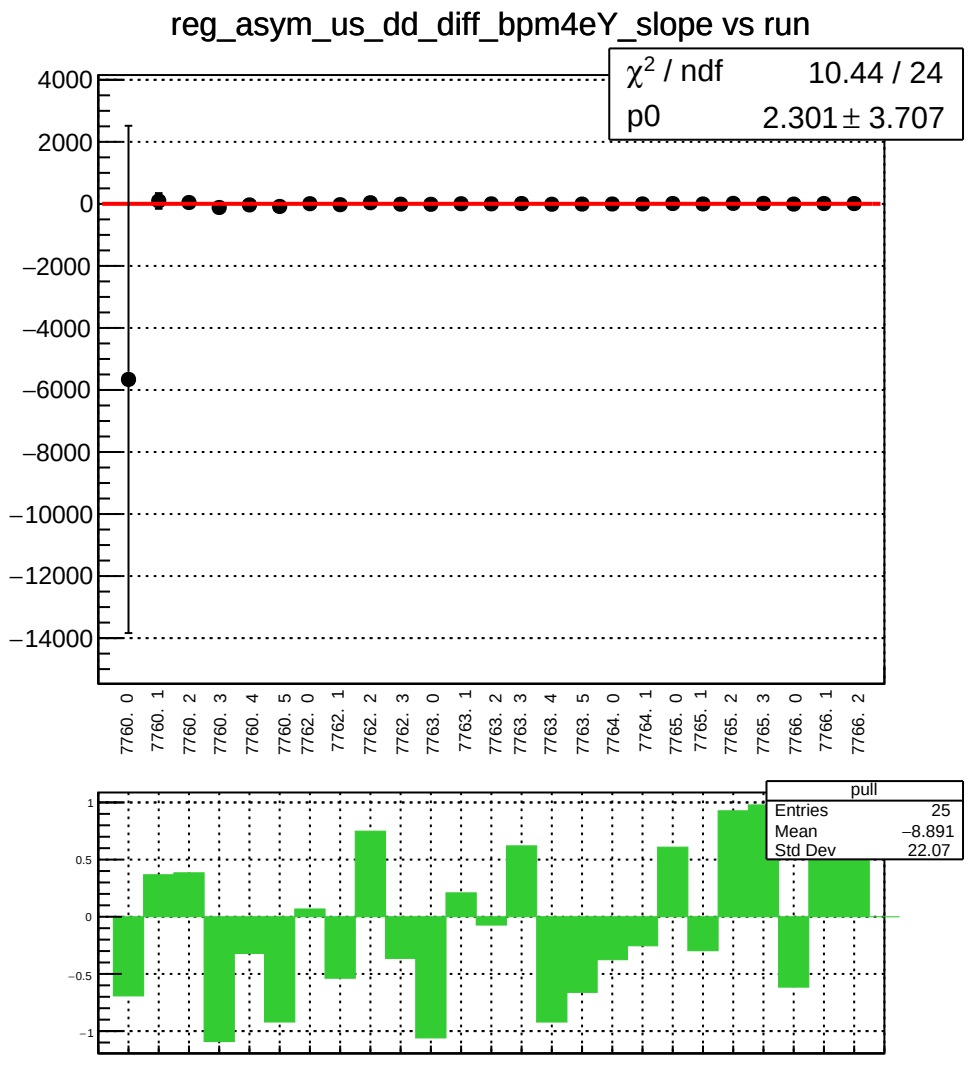

pull1D
Entries 25
Mean 0.01389
Std Dev 0.7208
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

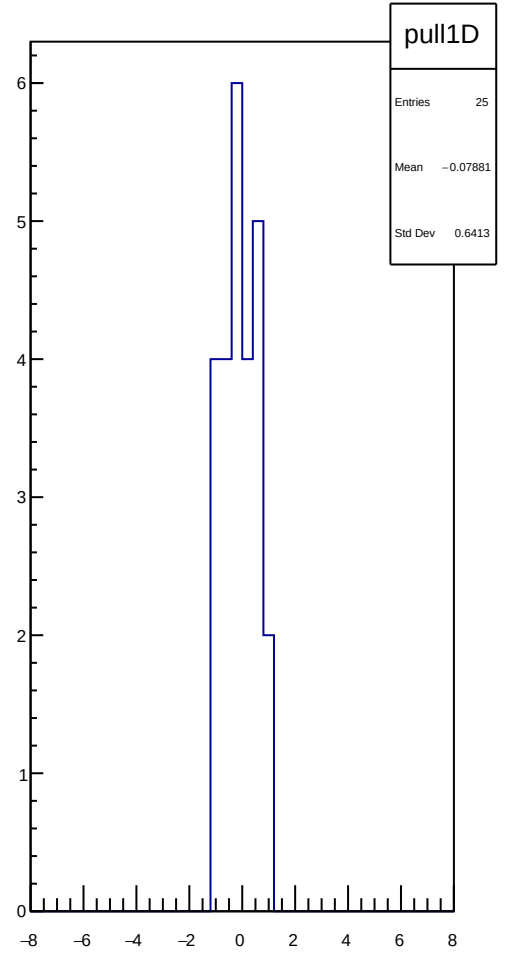

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.79 / 24
p0 6.493 ± 3.292
12000
10000
8000
6000
4000
2000
0
−2000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −9.408
Std Dev 23.03
1
0.5
0
−0.5
−1

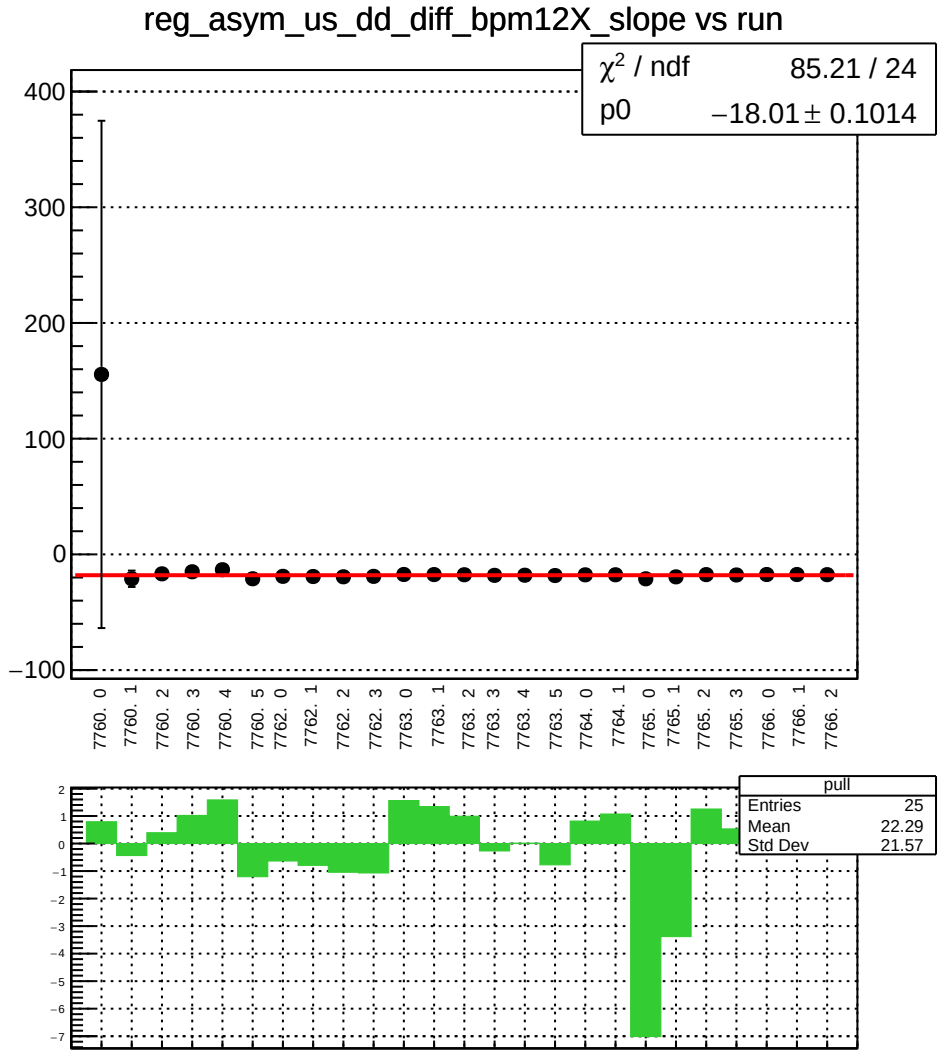

pull1D
Entries 25
Mean 0.07566
Std Dev 0.6526
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

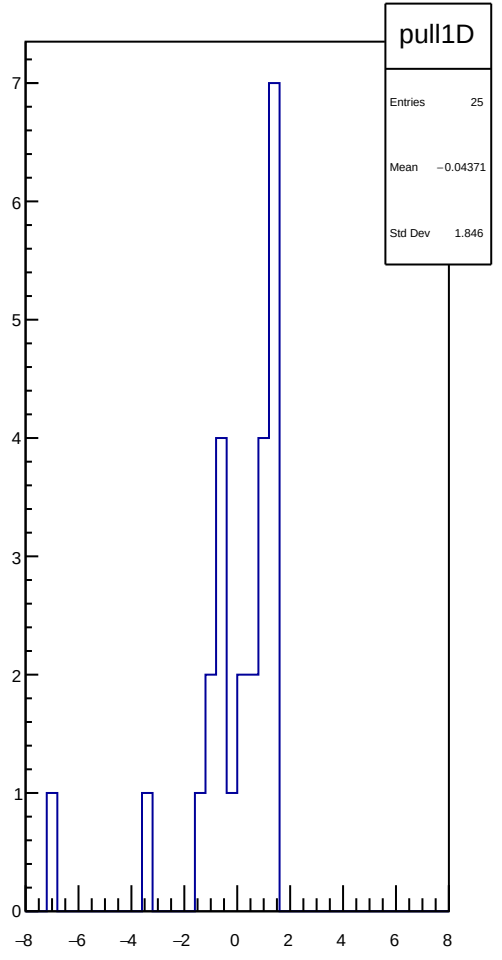

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 13.08 / 24
p0 −4.715 ± 2.848
4000
2000
0
−2000
−4000
−6000
−8000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −46.79
Std Dev 53.4
1.5
1
0.5
0
−0.5
−1

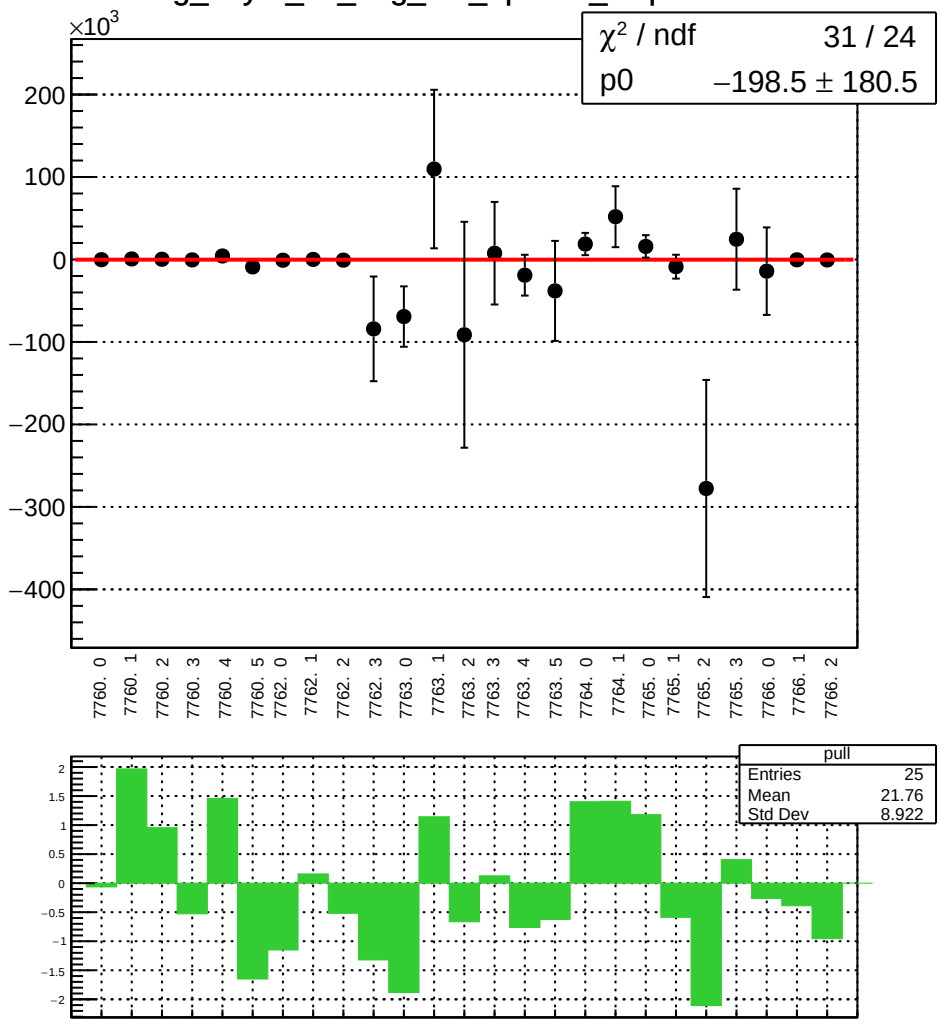

pull1D
Entries 25
Mean −0.01247
Std Dev 0.7231
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

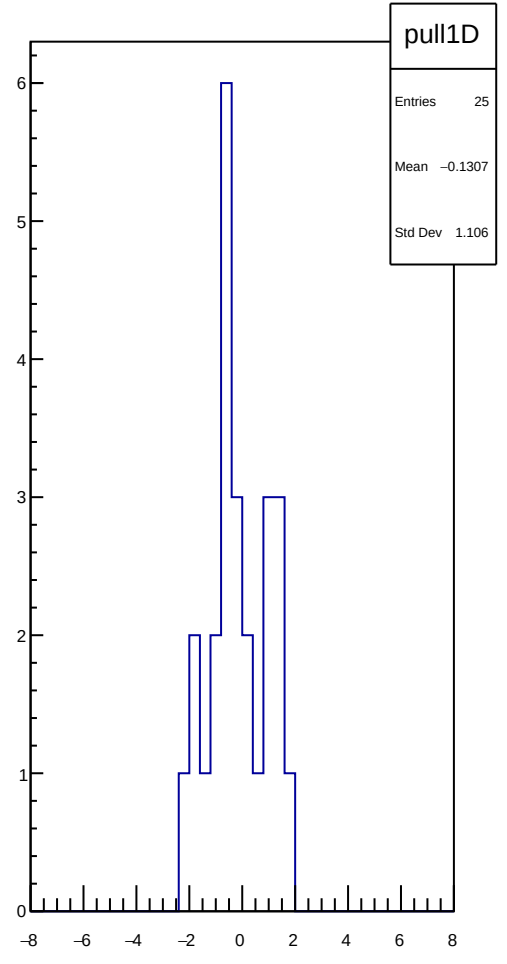

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 10.44 / 24
p0 2.301 ± 3.707
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
−14000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −8.891
Std Dev 22.07
1
0.5
0
−0.5
−1

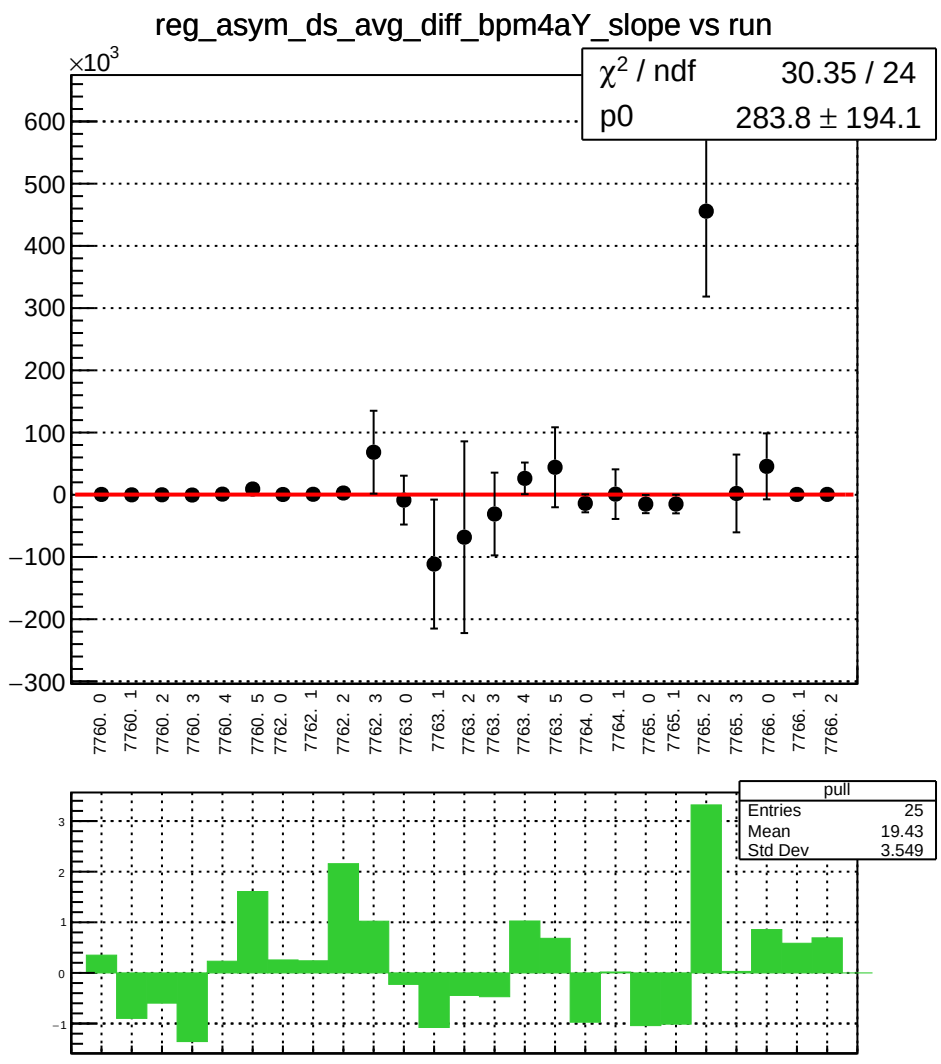

pull1D
Entries 25
Mean −0.07881
Std Dev 0.6413
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

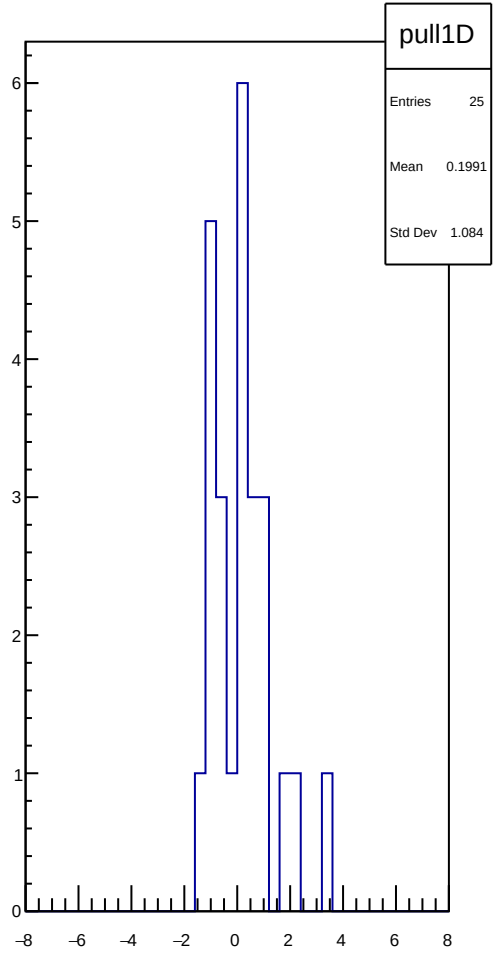

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 85.21 / 24
p0 −18.01 ± 0.1014
400
300
200
100
0
−100
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 22.29
Std Dev 21.57
2
1
0
−1
−2
−3
−4
−5
−6
−7

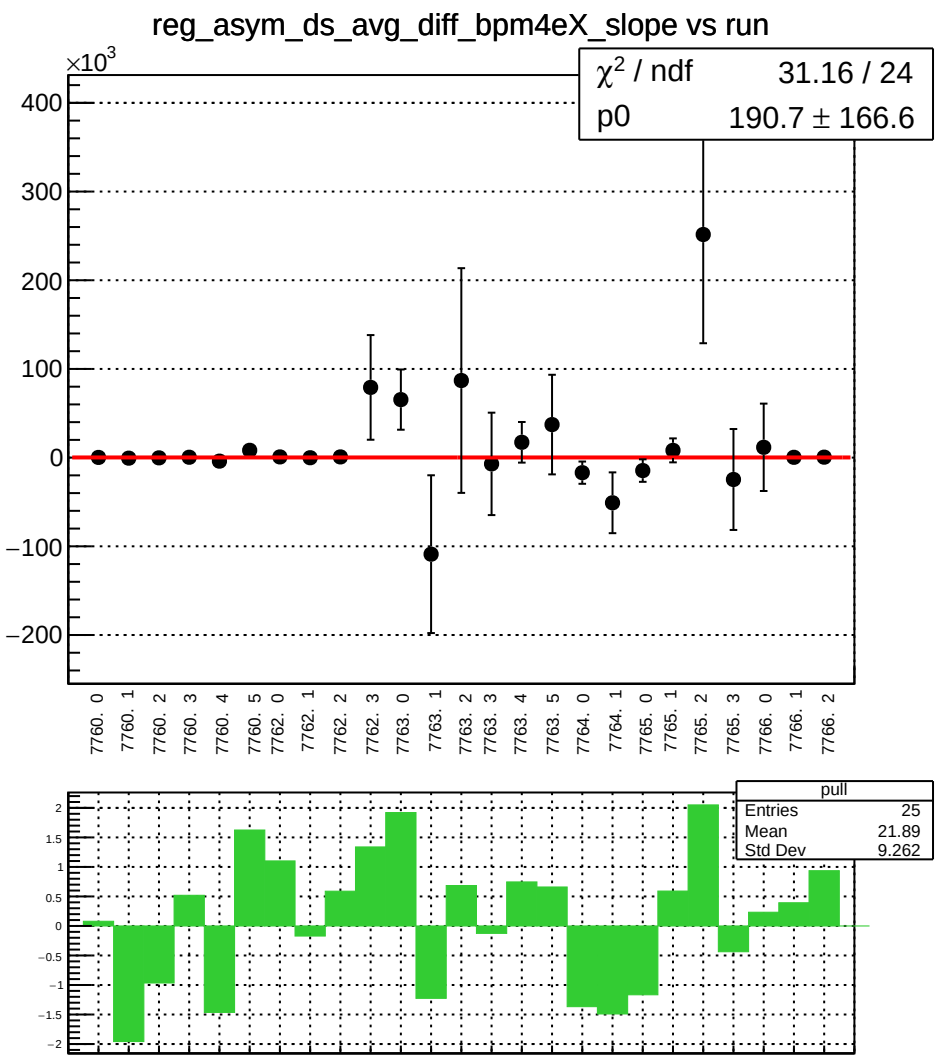

pull1D
Entries 25
Mean −0.04371
Std Dev 1.846
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

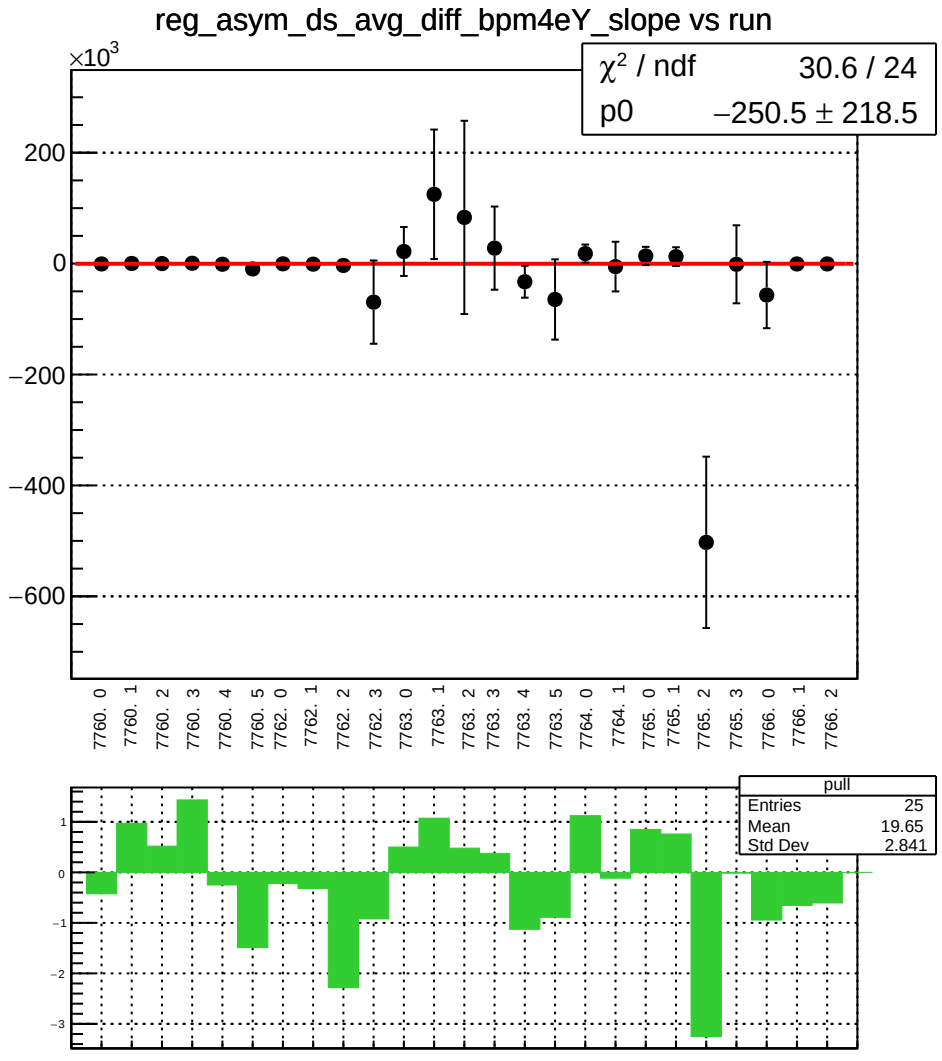

reg_asym_ds_avg_diff_bpm1X_slope vs run
×10^3
χ² / ndf 31 / 24
p0 −198.5 ± 180.5
200
100
0
−100
−200
−300
−400
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 21.76
Std Dev 8.922
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

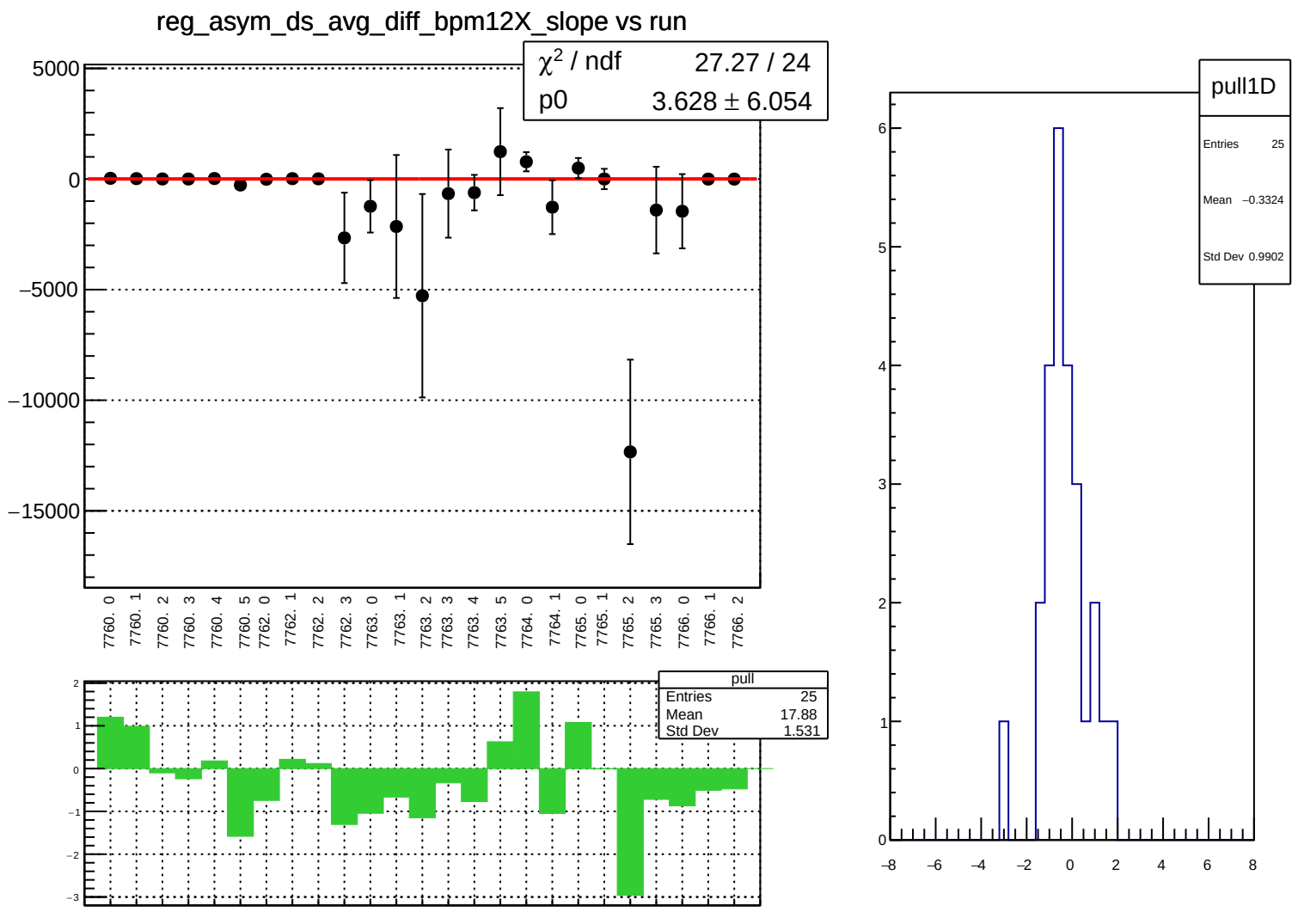

pull1D
Entries 25
Mean −0.1307
Std Dev 1.106
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

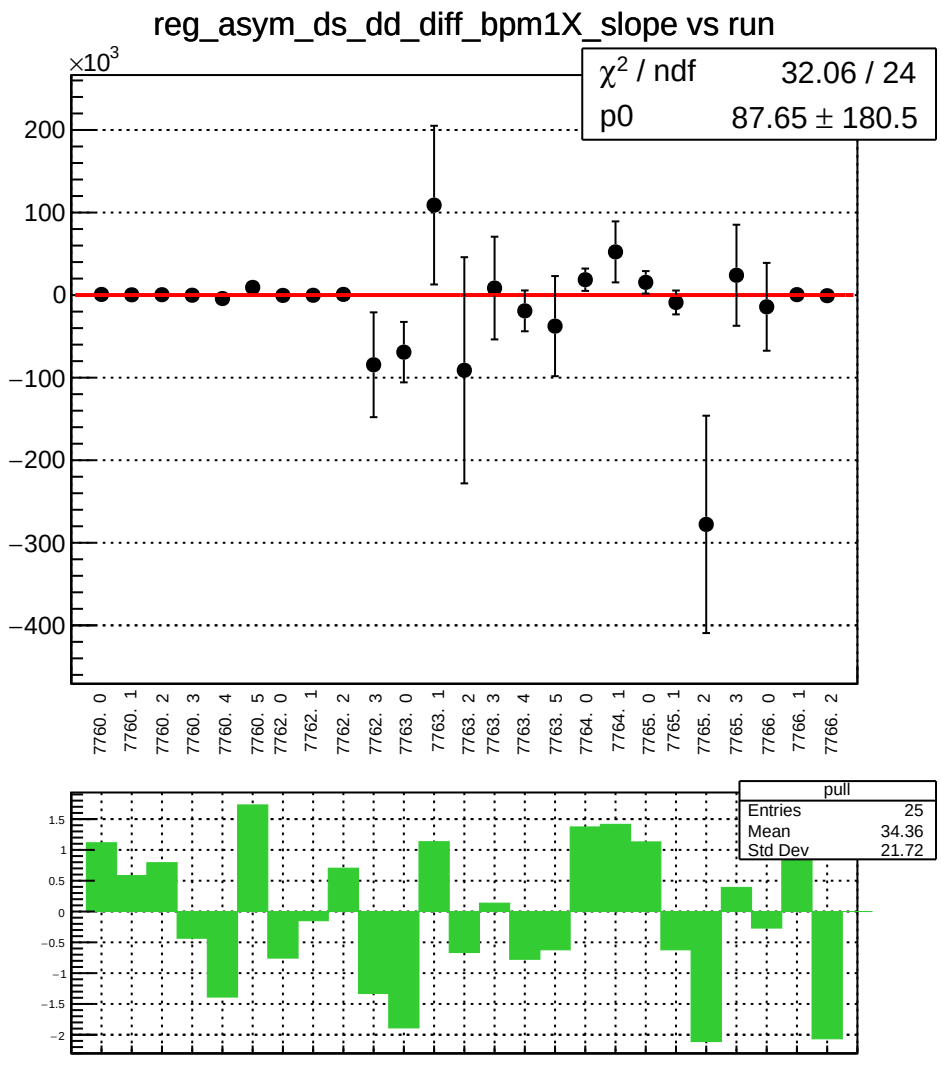

reg_asym_ds_avg_diff_bpm4aY_slope vs run
×10^3
χ^2 / ndf 30.35 / 24
p0 283.8 ± 194.1
600
500
400
300
200
100
0
−100
−200
−300
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 19.43
Std Dev 3.549
3
2
1
0
−1

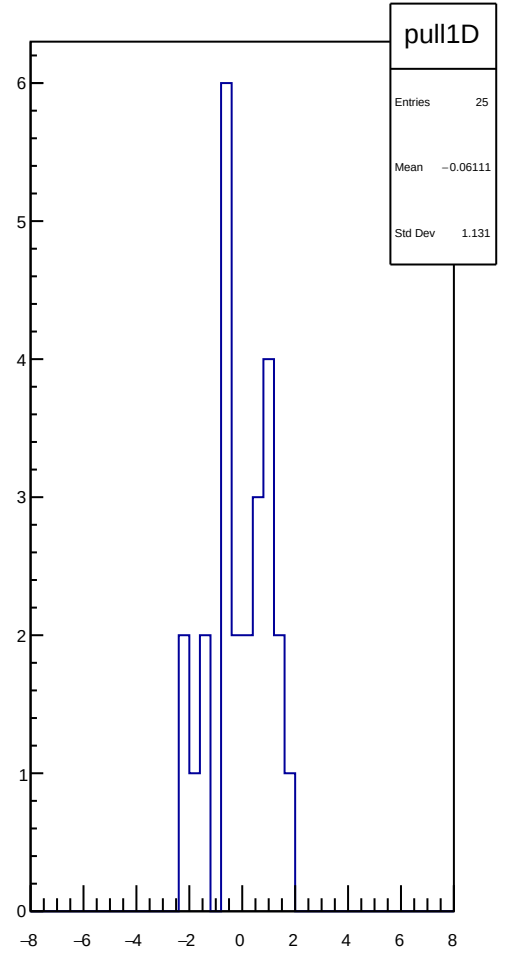

pull1D
Entries 25
Mean 0.1991
Std Dev 1.084
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

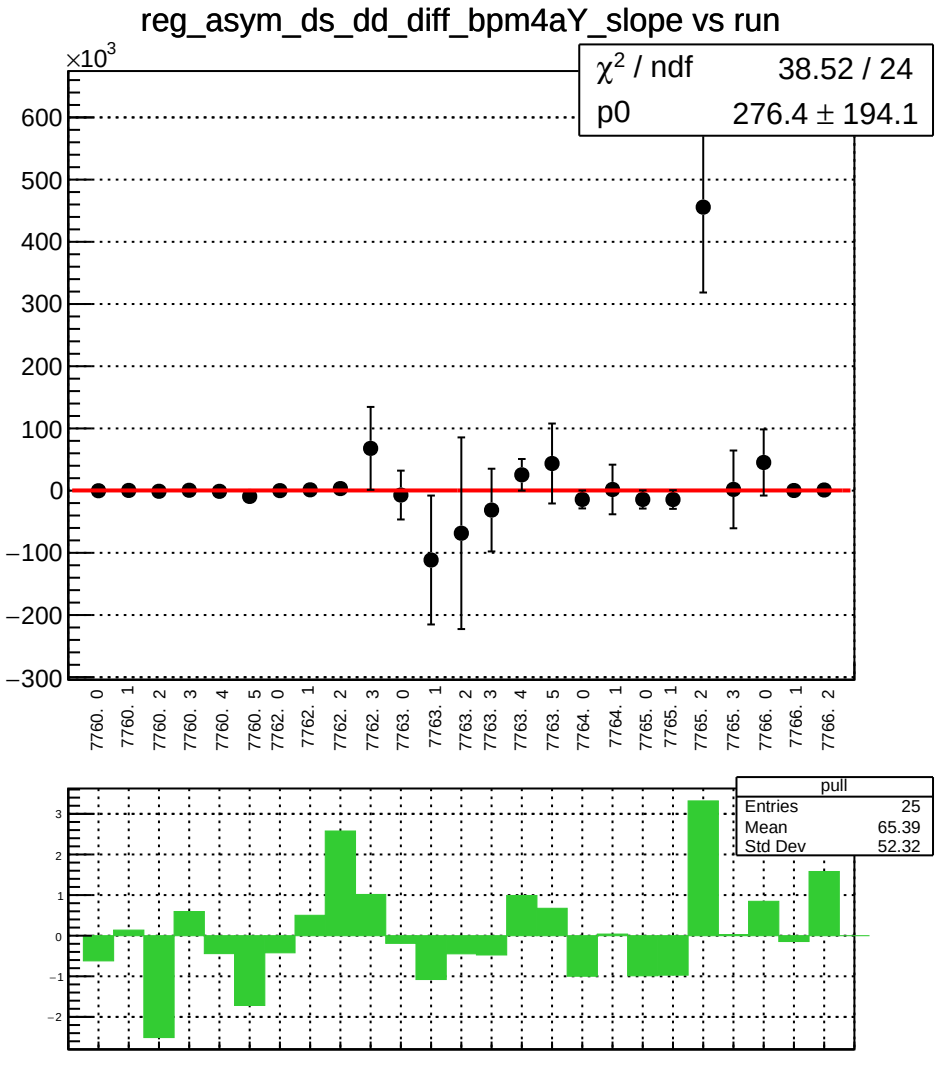

reg_asym_ds_avg_diff_bpm4eX_slope vs run
×10^3
χ² / ndf 31.16 / 24
p0 190.7 ± 166.6
400
300
200
100
0
−100
−200
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 21.89
Std Dev 9.262
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 25
Mean 0.1239
Std Dev 1.109
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

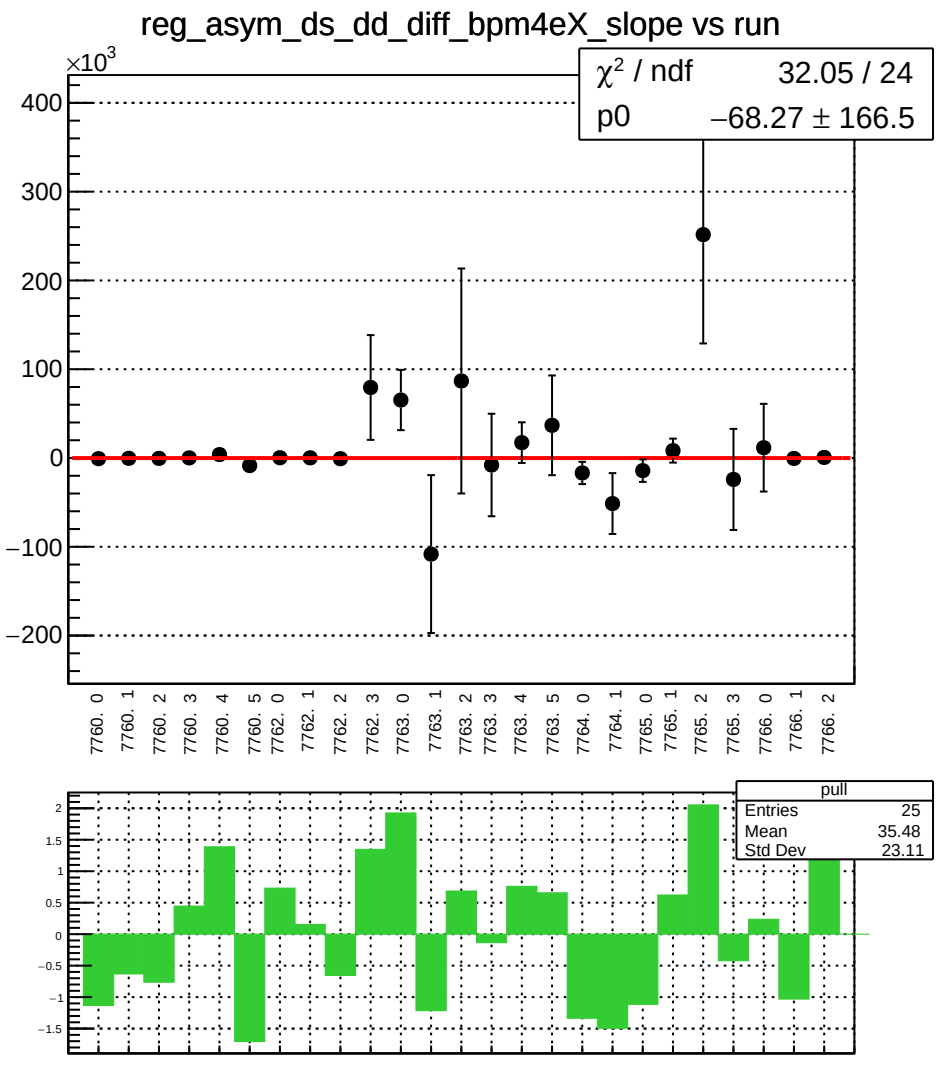

reg_asym_ds_avg_diff_bpm4eY_slope vs run
×10^3
χ² / ndf 30.6 / 24
p0 −250.5 ± 218.5
200
0
−200
−400
−600
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 19.65
Std Dev 2.841
1
0
−1
−2
−3
pull1D
Entries 25
Mean −0.217
Std Dev 1.085
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

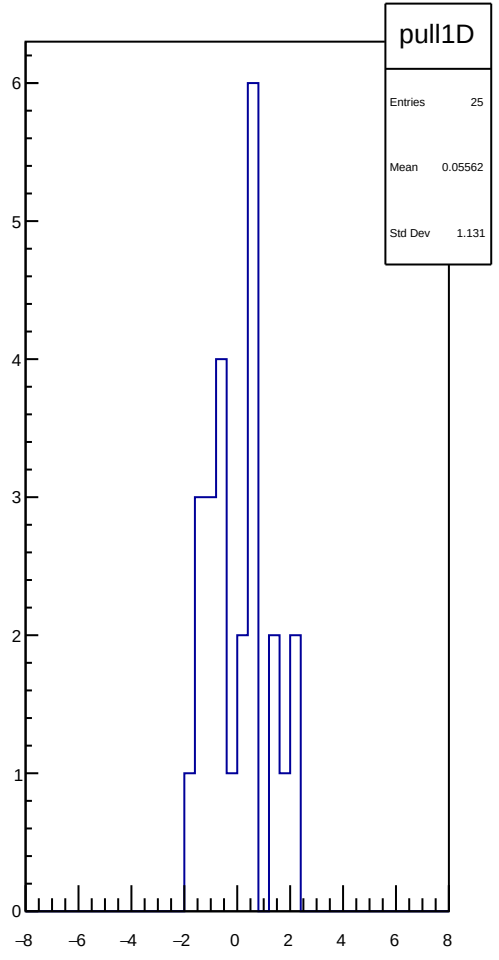

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 27.27 / 24
p0 3.628 ± 6.054
5000
0
−5000
−10000
−15000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 17.88
Std Dev 1.531
2
1
0
−1
−2
−3
pull1D
Entries 25
Mean −0.3324
Std Dev 0.9902
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

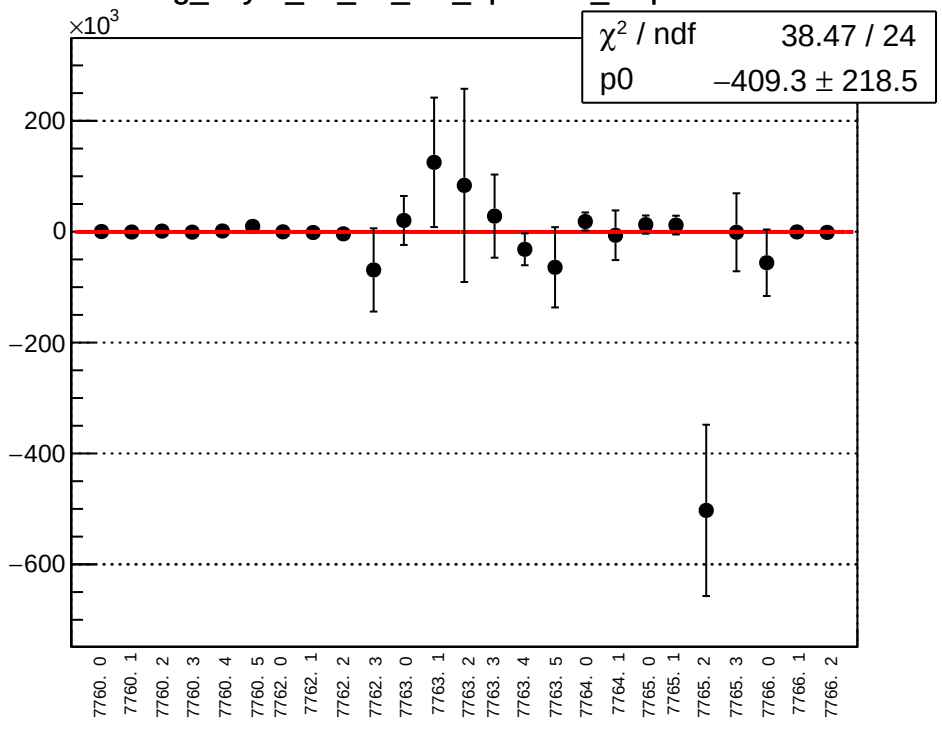

reg_asym_ds_dd_diff_bpm1X_slope vs run
×10^3
χ² / ndf 32.06 / 24
p0 87.65 ± 180.5
200
100
0
−100
−200
−300
−400
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 34.36
Std Dev 21.72
1.5
1
0.5
0
−0.5
−1
−1.5
−2

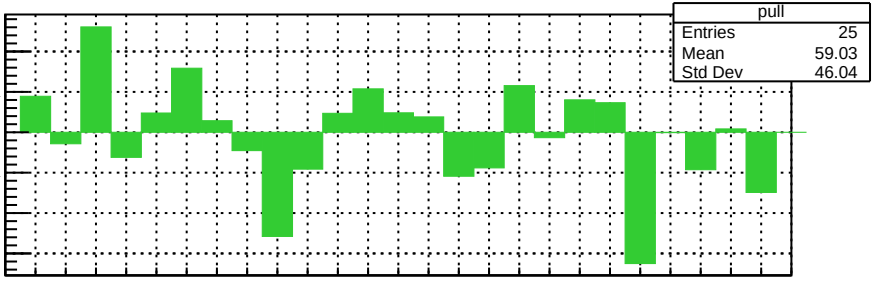

pull1D
Entries 25
Mean −0.06111
Std Dev 1.131
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

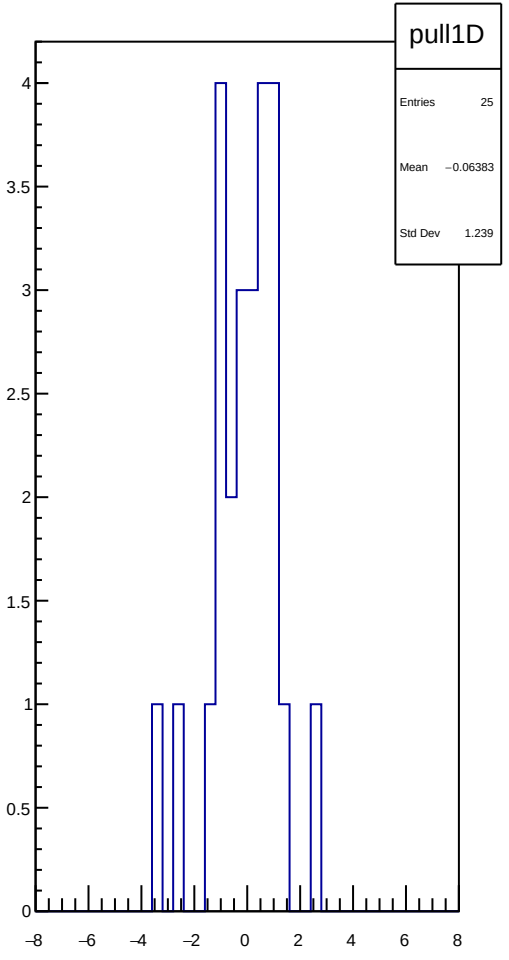

reg_asym_ds_dd_diff_bpm4aY_slope vs run
×10^3
χ² / ndf 38.52 / 24
p0 276.4 ± 194.1
600
500
400
300
200
100
0
−100
−200
−300
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 65.39
Std Dev 52.32
3
2
1
0
−1
−2
pull1D
Entries 25
Mean 0.05218
Std Dev 1.24
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

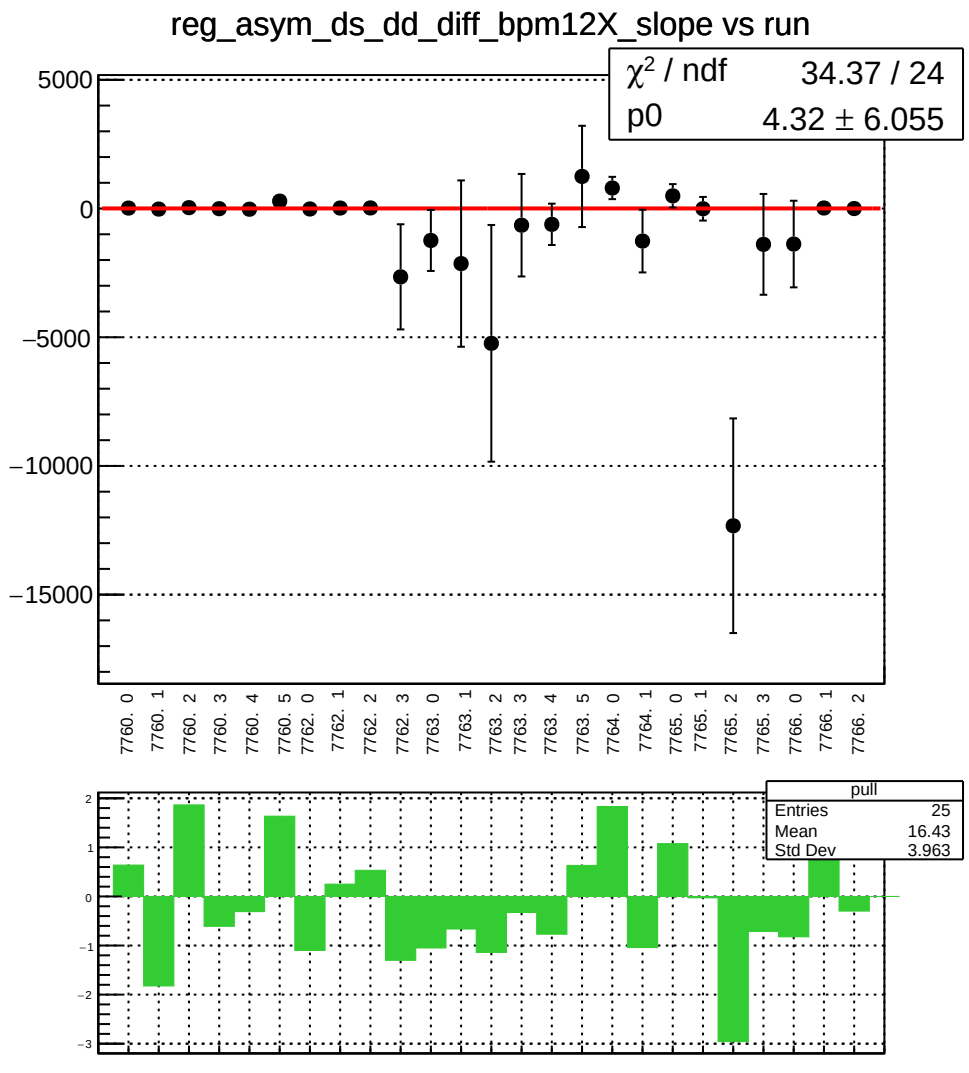

reg_asym_ds_dd_diff_bpm4eX_slope vs run
×10^3
χ² / ndf 32.05 / 24
p0 −68.27 ± 166.5
400
300
200
100
0
−100
−200
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 35.48
Std Dev 23.11
2
1.5
1
0.5
0
−0.5
−1
−1.5

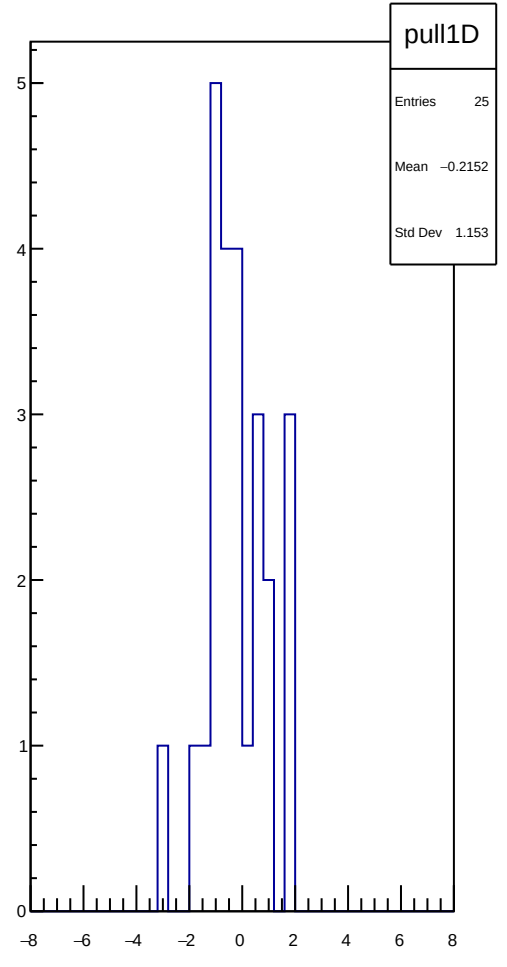

pull1D
Entries 25
Mean 0.05562
Std Dev 1.131
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

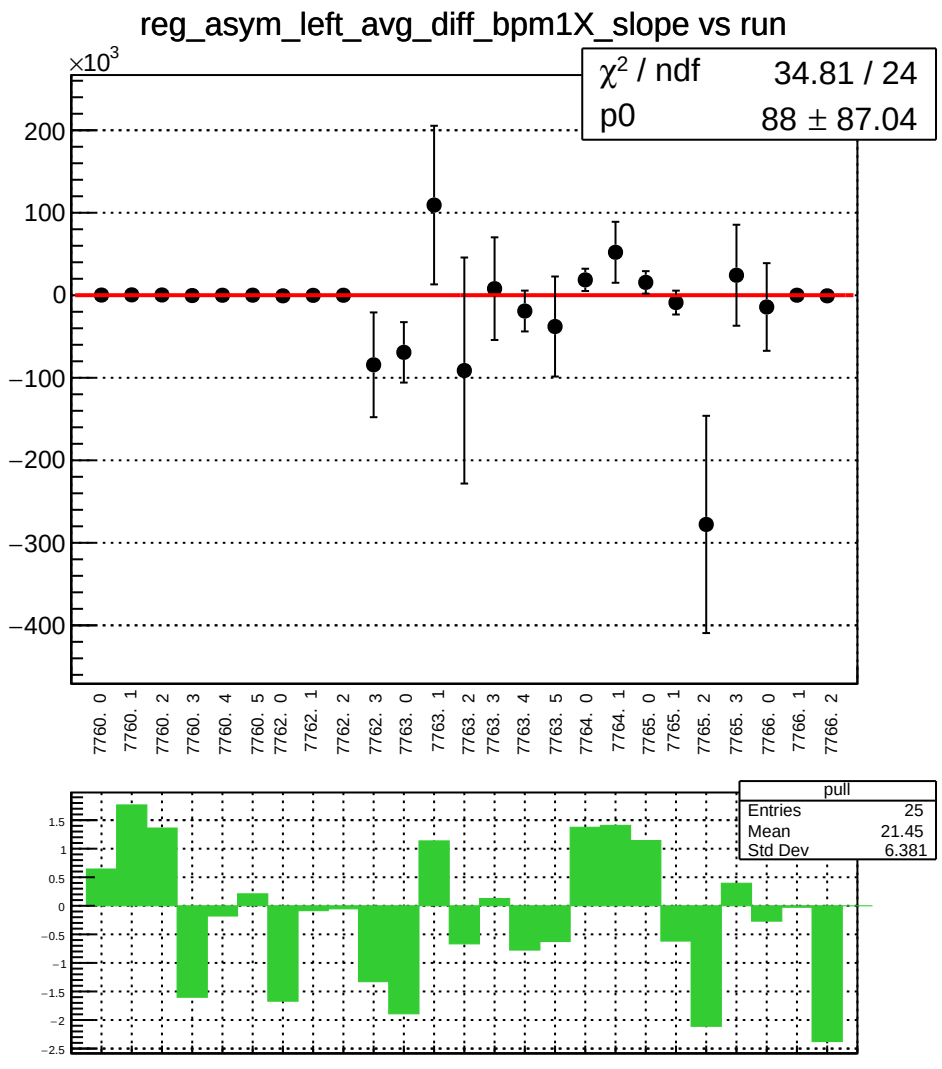

reg_asym_ds_dd_diff_bpm4eY_slope vs run
×10^3
χ² / ndf 38.47 / 24
p0 −409.3 ± 218.5
200
0
−200
−400
−600
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

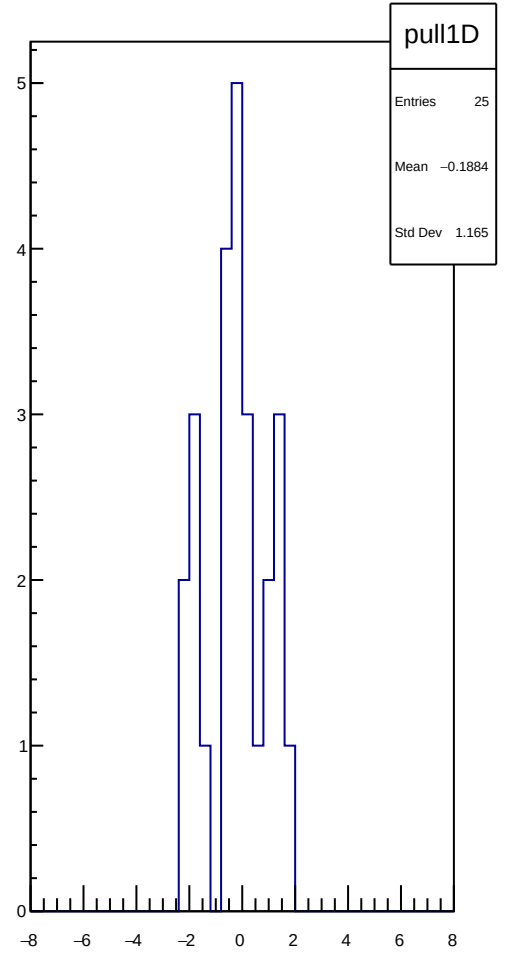

pull
Entries 25
Mean 59.03
Std Dev 46.04
2
1
0
−1
−2
−3

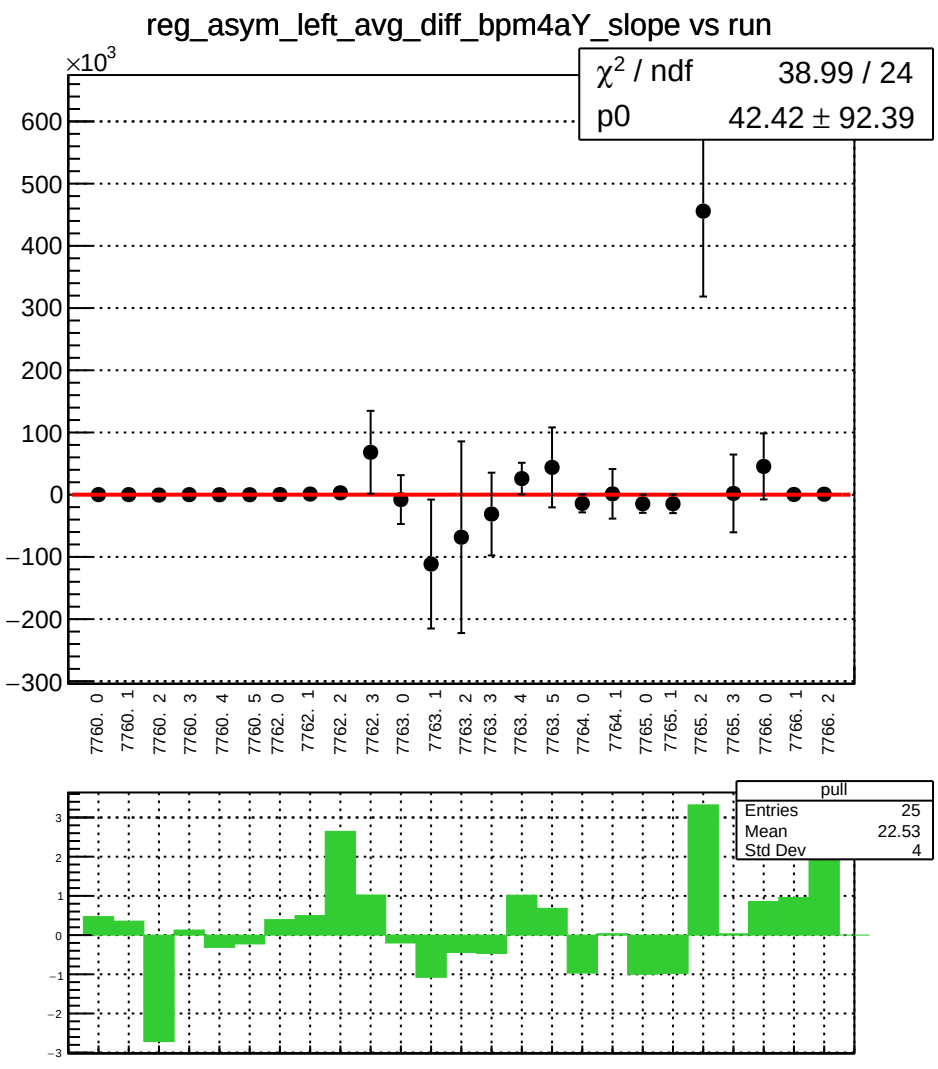

pull1D
Entries 25
Mean −0.06383
Std Dev 1.239
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

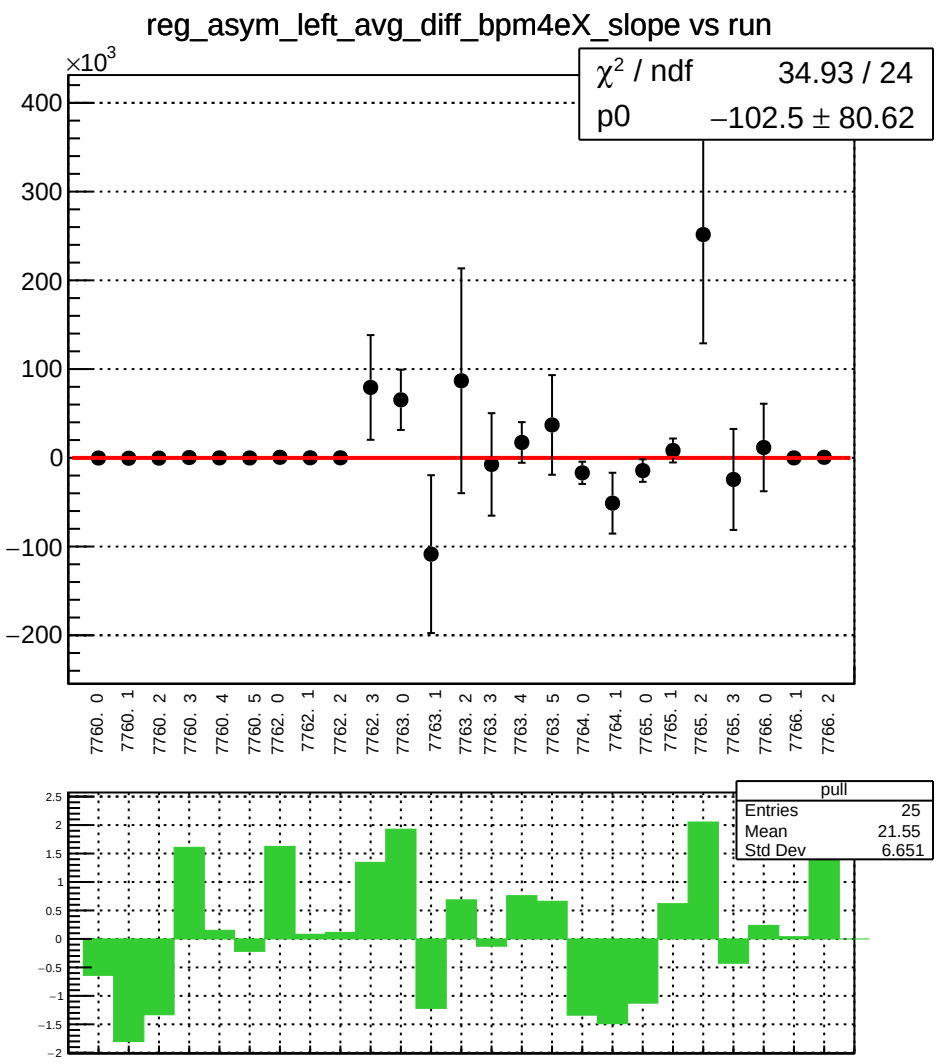

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 34.37 / 24
p0 4.32 ± 6.055
5000
0
−5000
−10000
−15000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 16.43
Std Dev 3.963
2
1
0
−1
−2
−3

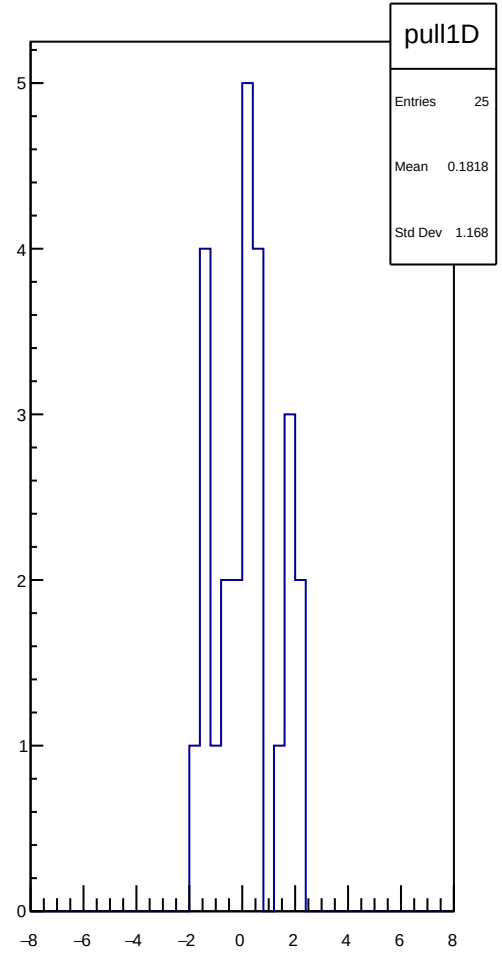

pull1D
Entries 25
Mean −0.2152
Std Dev 1.153
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

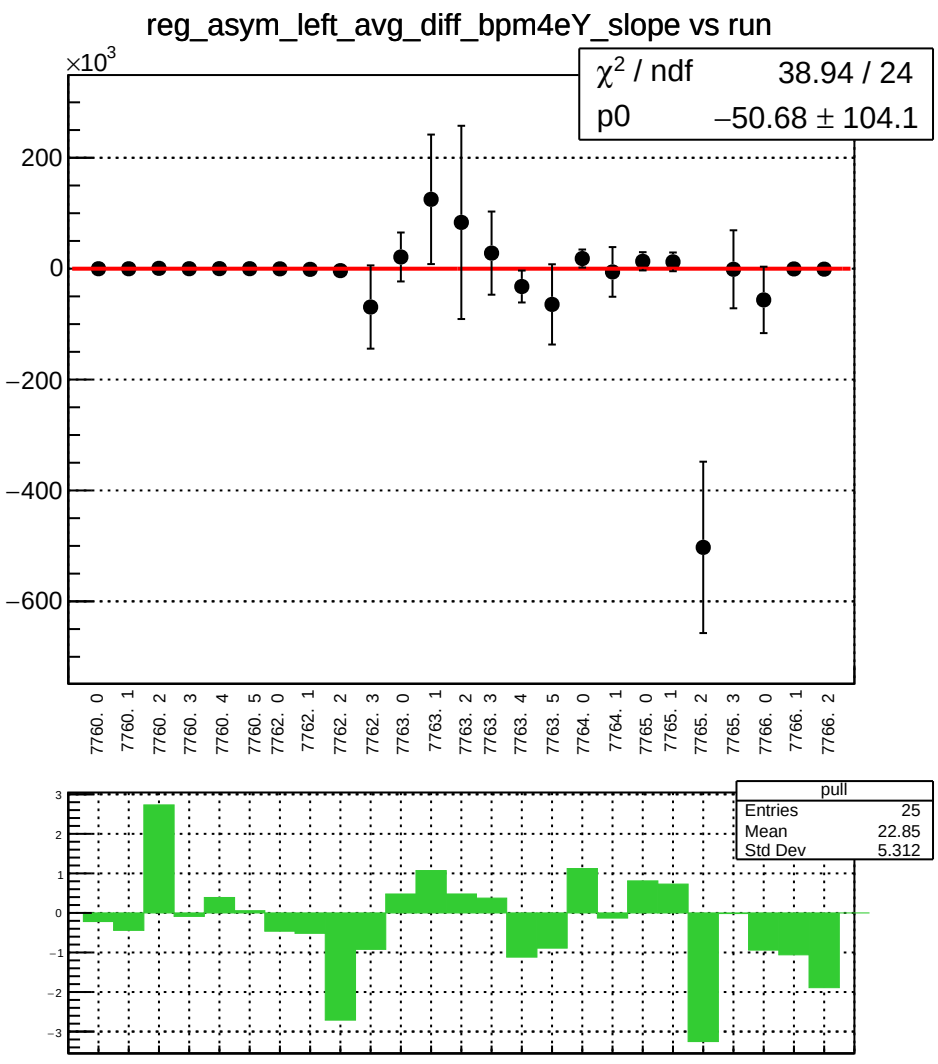

reg_asym_left_avg_diff_bpm1X_slope vs run
×10^3
χ^2 / ndf 34.81 / 24
p0 88 ± 87.04
200
100
0
−100
−200
−300
−400
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 21.45
Std Dev 6.381
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

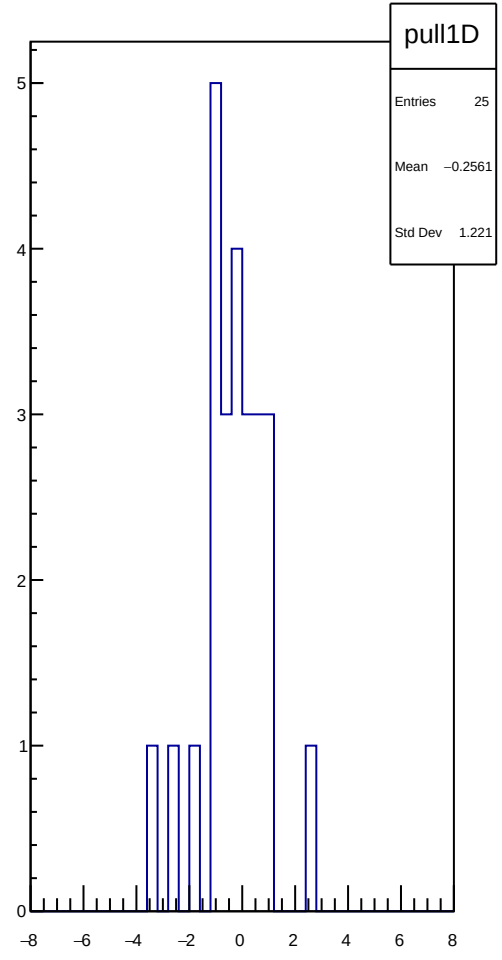

pull1D
Entries 25
Mean −0.1884
Std Dev 1.165
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

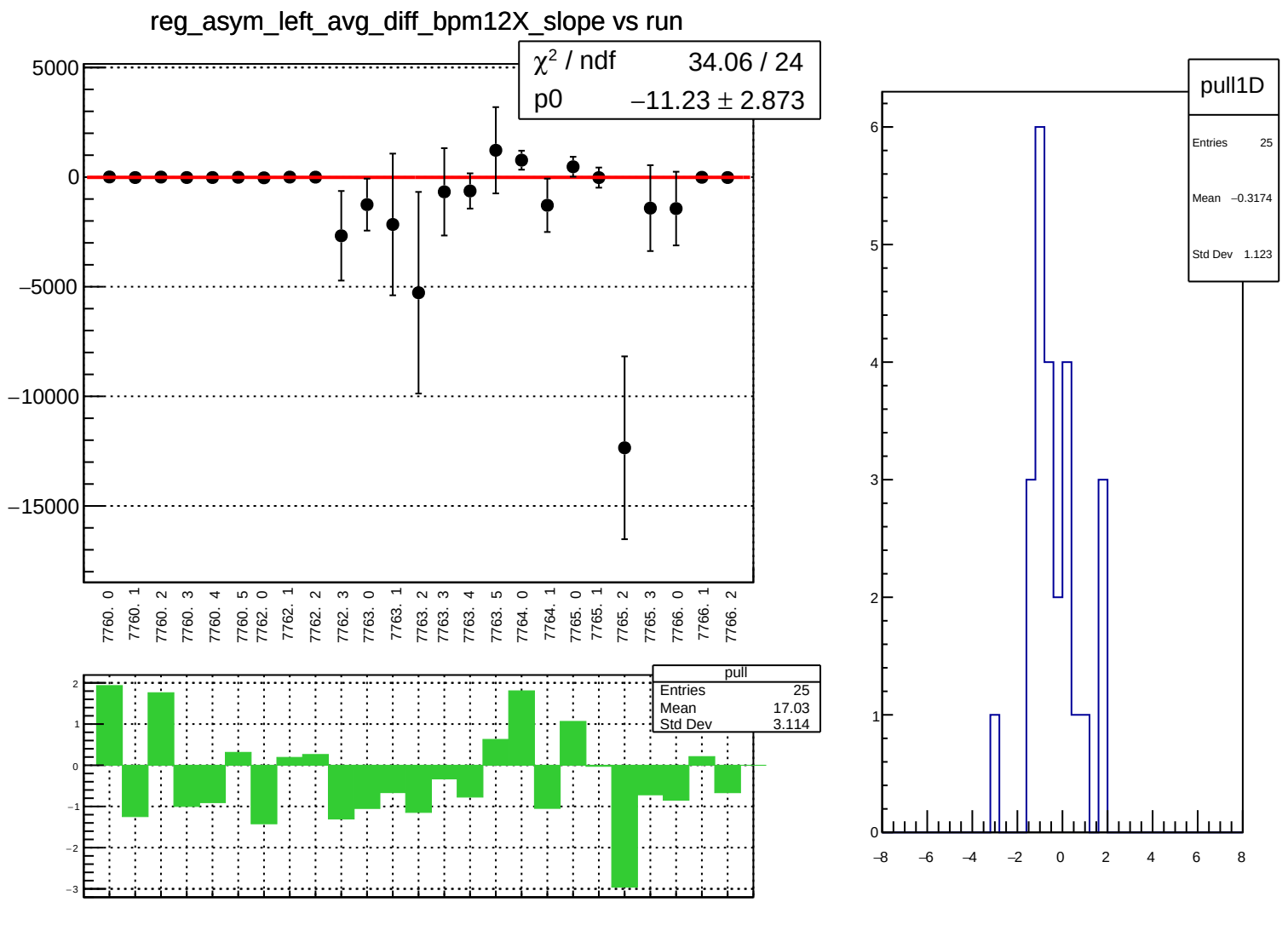

reg_asym_left_avg_diff_bpm4aY_slope vs run
×10^3
χ² / ndf 38.99 / 24
p0 42.42 ± 92.39
600
500
400
300
200
100
0
−100
−200
−300
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 22.53
Std Dev 4
3
2
1
0
−1
−2
−3
pull1D
Entries 25
Mean 0.2411
Std Dev 1.225
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

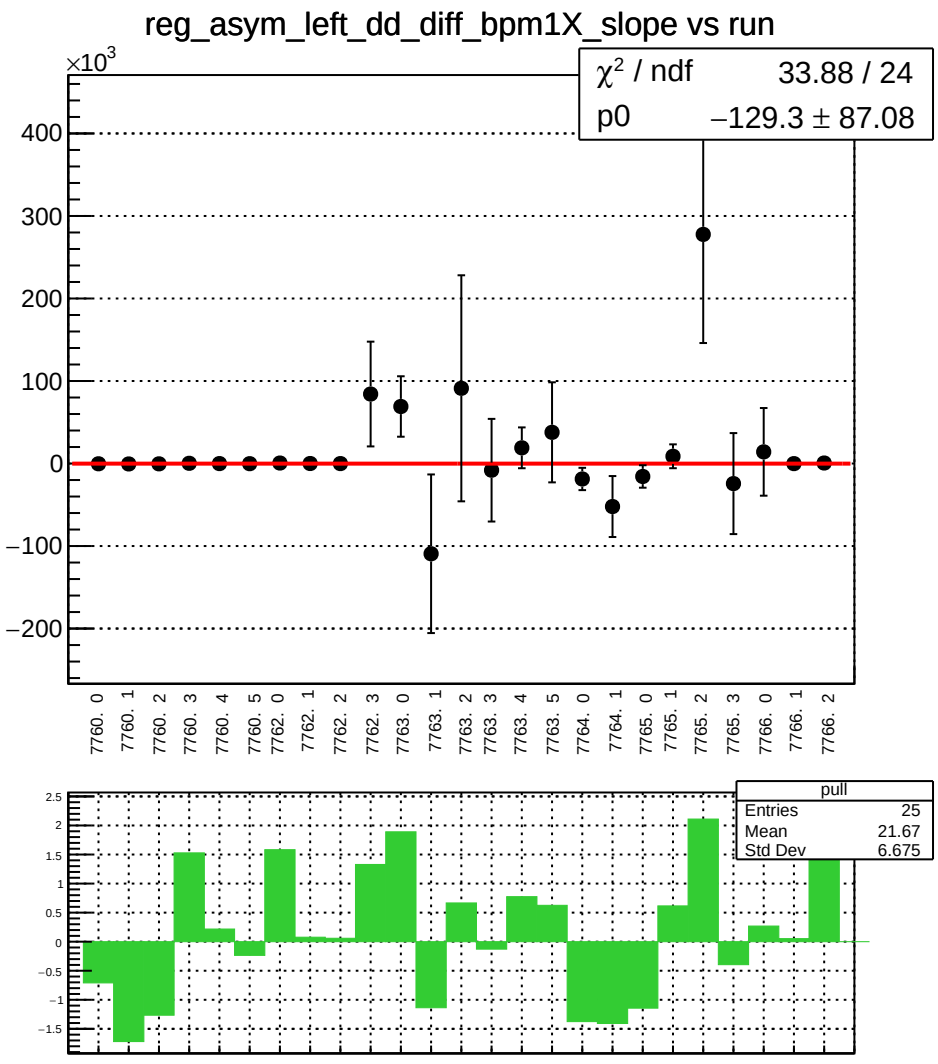

reg_asym_left_avg_diff_bpm4eX_slope vs run
×10^3
χ² / ndf 34.93 / 24
p0 −102.5 ± 80.62
400
300
200
100
0
−100
−200
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 21.55
Std Dev 6.651
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

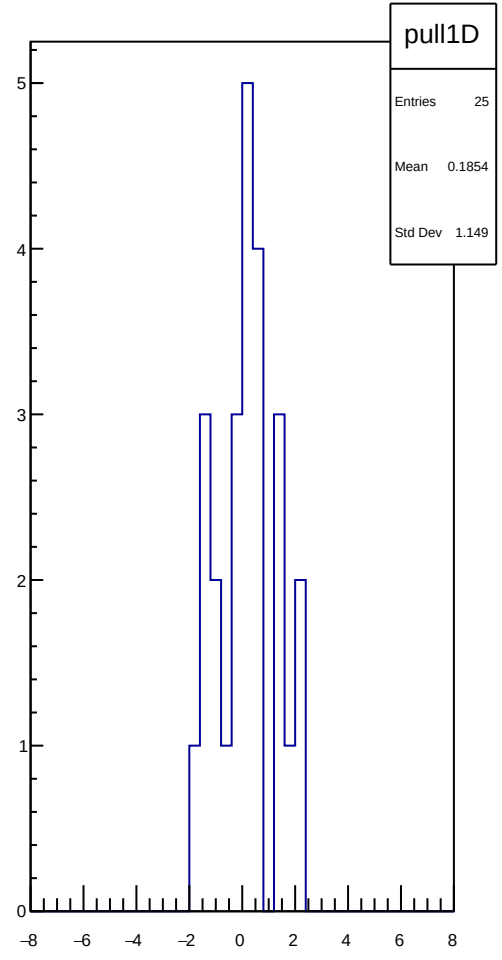

pull1D
Entries 25
Mean 0.1818
Std Dev 1.168
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

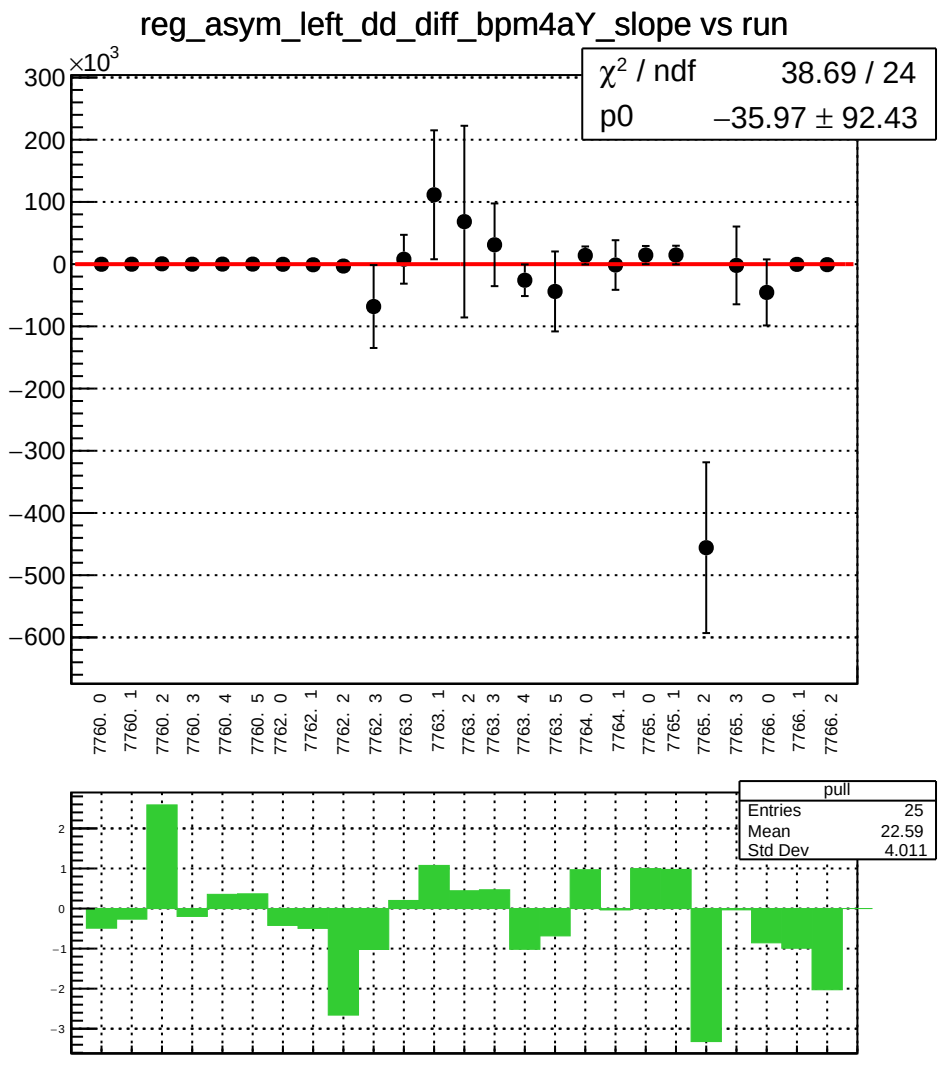

reg_asym_left_avg_diff_bpm4eY_slope vs run
×10^3
χ^2 / ndf 38.94 / 24
p0 −50.68 ± 104.1
200
0
−200
−400
−600
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 22.85
Std Dev 5.312
3
2
1
0
−1
−2
−3

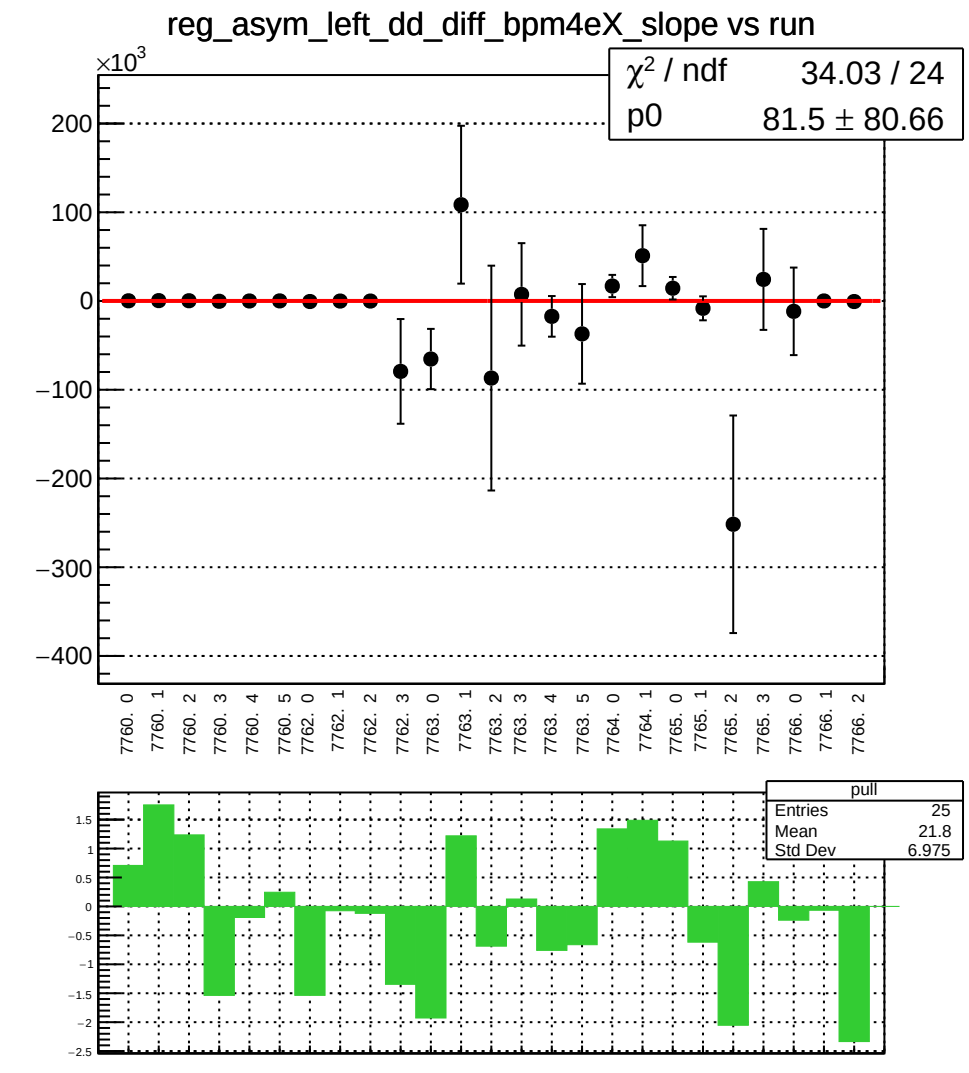

pull1D
Entries 25
Mean −0.2561
Std Dev 1.221
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

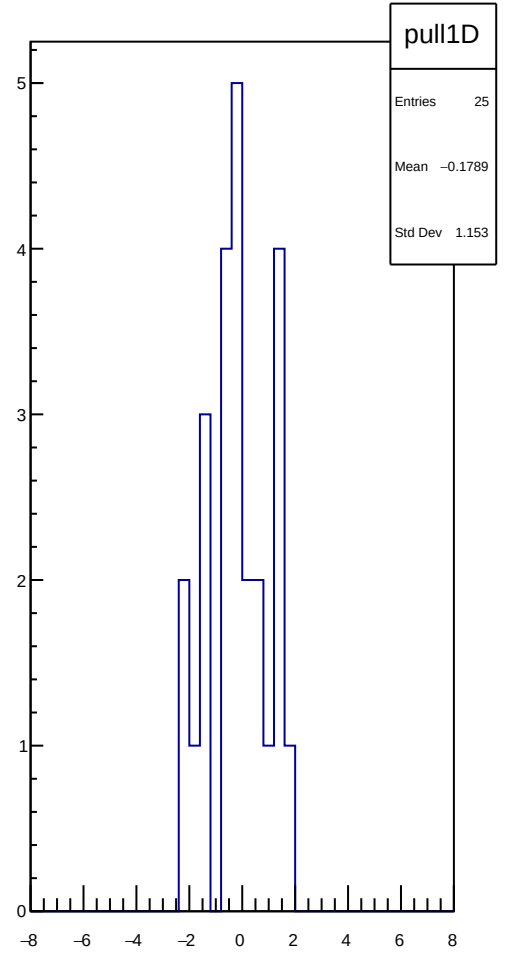

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 34.06 / 24
p0 −11.23 ± 2.873
5000
0
−5000
−10000
−15000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 17.03
Std Dev 3.114
pull1D
Entries 25
Mean −0.3174
Std Dev 1.123

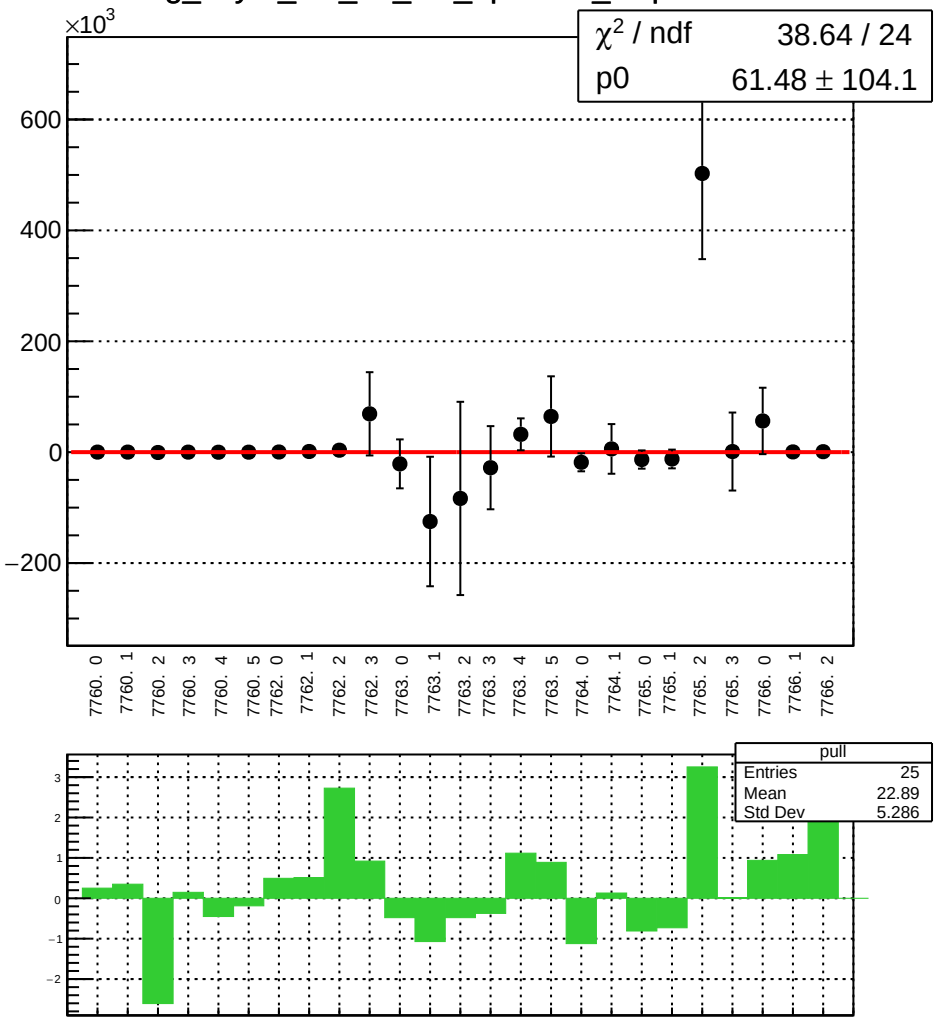

reg_asym_left_dd_diff_bpm1X_slope vs run
×10^3
χ² / ndf 33.88 / 24
p0 −129.3 ± 87.08
400
300
200
100
0
−100
−200
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 21.67
Std Dev 6.675
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

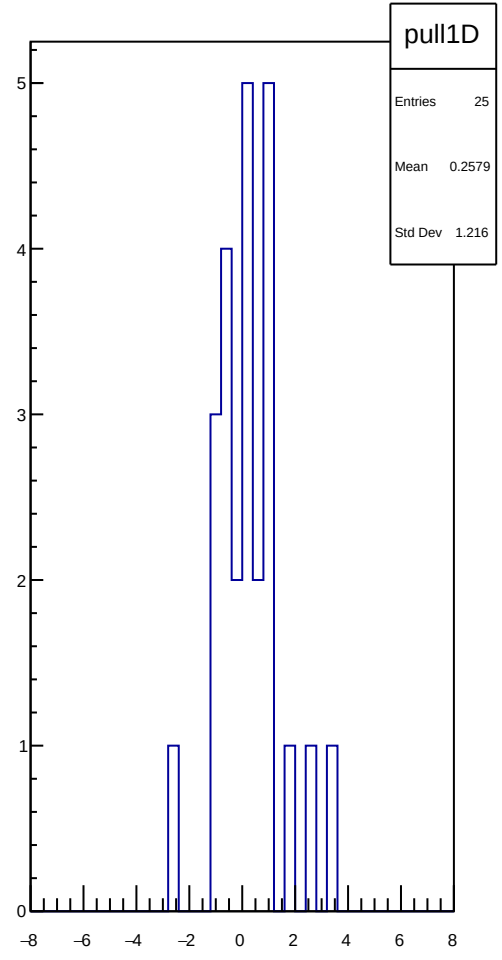

pull1D
Entries 25
Mean 0.1854
Std Dev 1.149
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

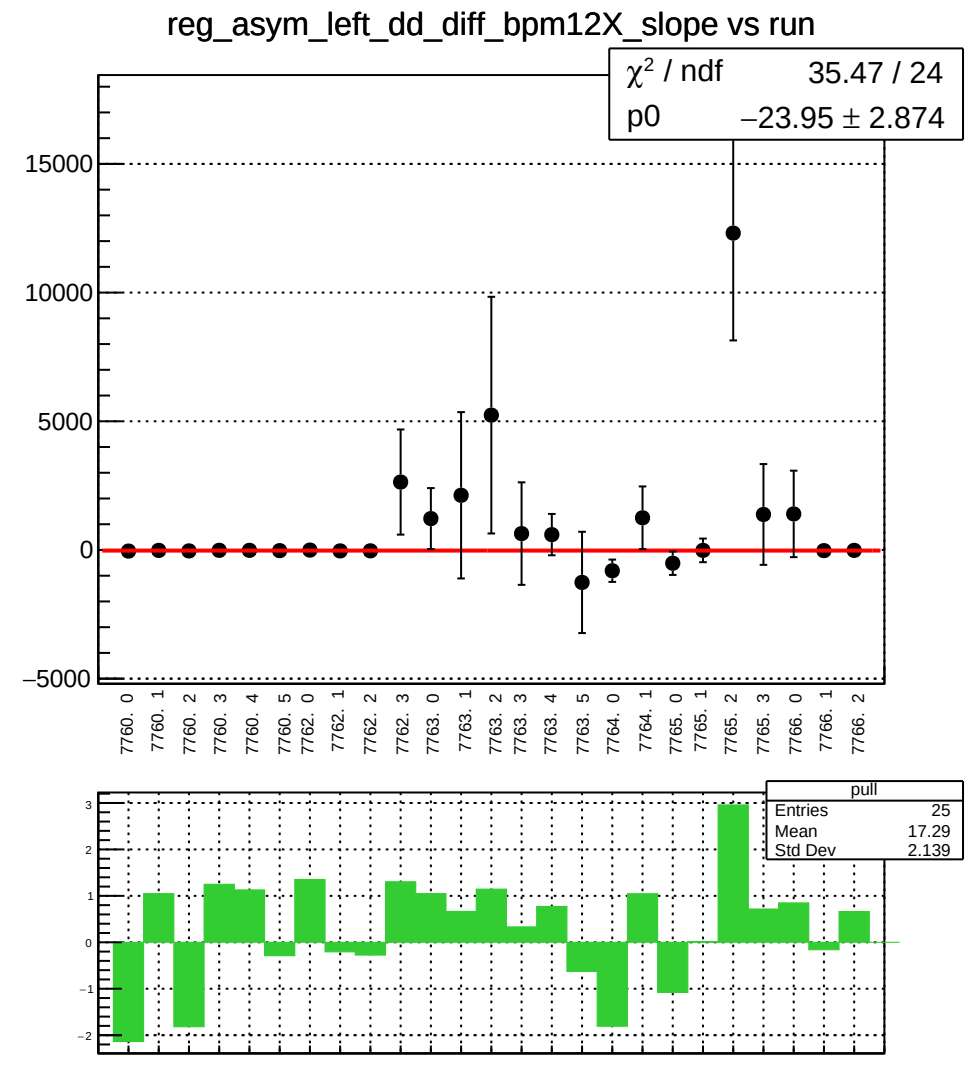

reg_asym_left_dd_diff_bpm4aY_slope vs run
×10^3
χ² / ndf 38.69 / 24
p0 −35.97 ± 92.43
300
200
100
0
−100
−200
−300
−400
−500
−600
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 22.59
Std Dev 4.011
2
1
0
−1
−2
−3
pull1D
Entries 25
Mean −0.2427
Std Dev 1.22
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

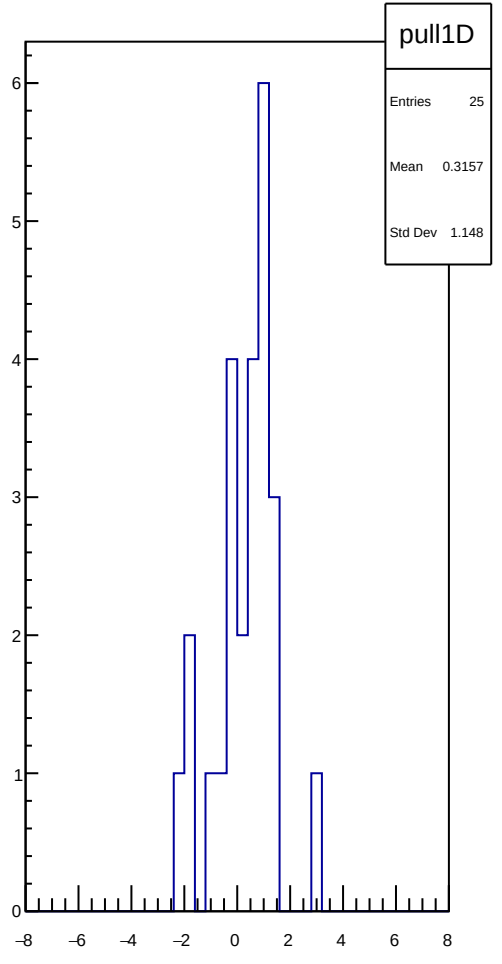

reg_asym_left_dd_diff_bpm4eX_slope vs run
×10^3
χ^2 / ndf 34.03 / 24
p0 81.5 ± 80.66
200
100
0
−100
−200
−300
−400
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 21.8
Std Dev 6.975
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

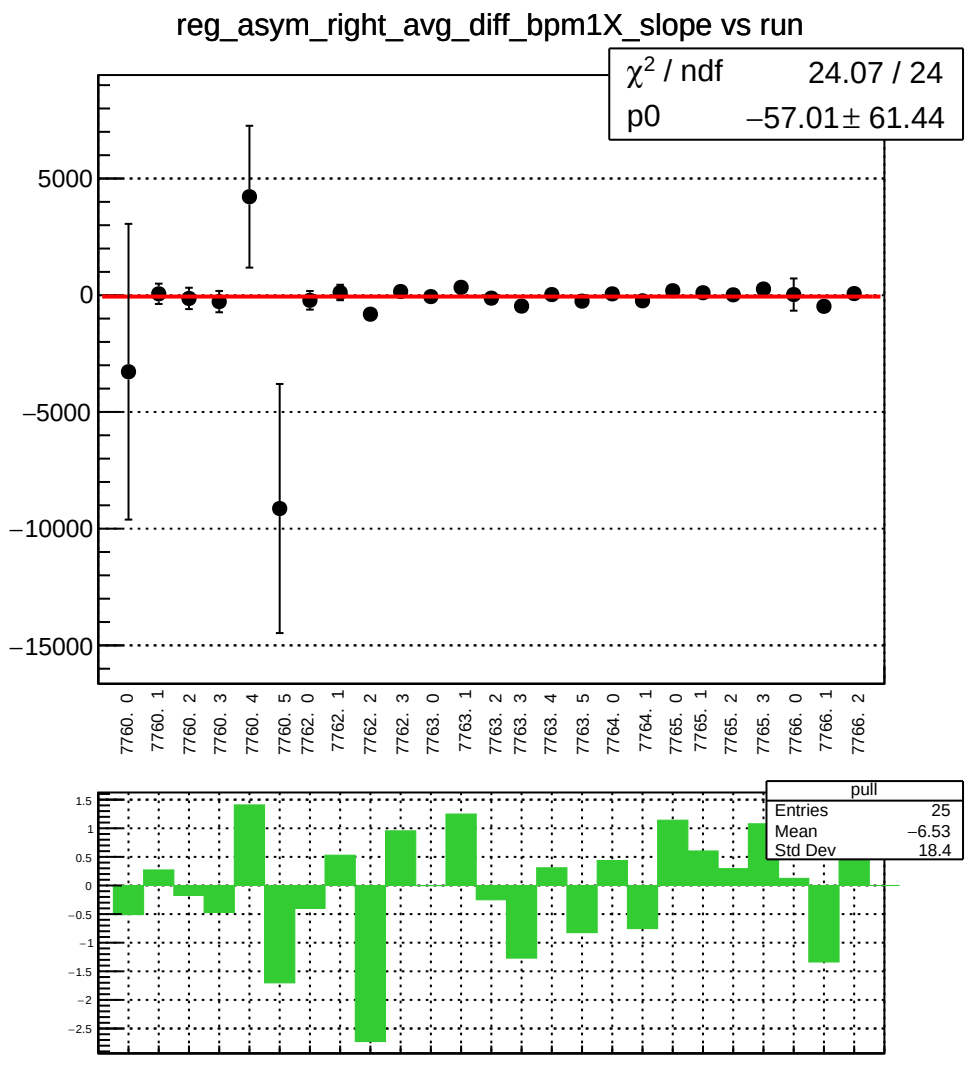

pull1D
Entries 25
Mean −0.1789
Std Dev 1.153
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

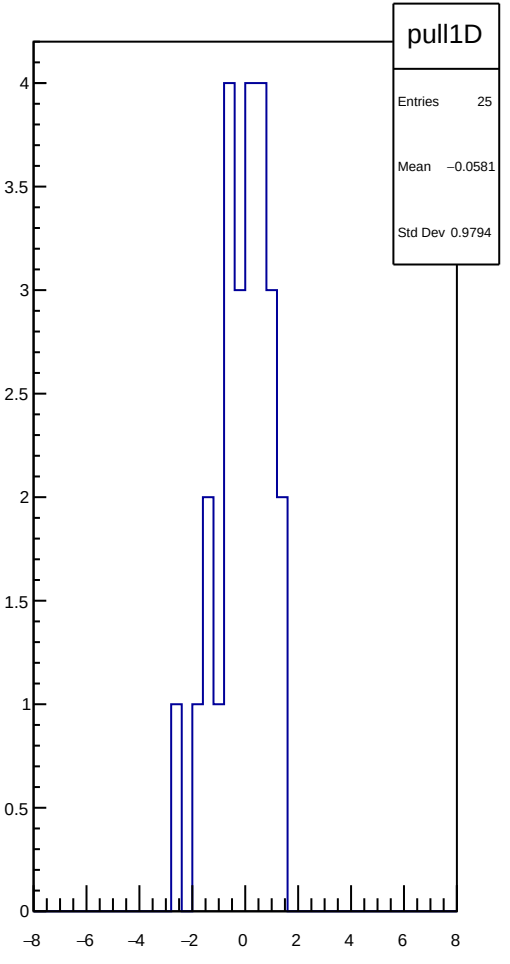

reg_asym_left_dd_diff_bpm4eY_slope vs run
×10^3
χ^2 / ndf 38.64 / 24
p0 61.48 ± 104.1
600
400
200
0
−200
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 22.89
Std Dev 5.286
3
2
1
0
−1
−2

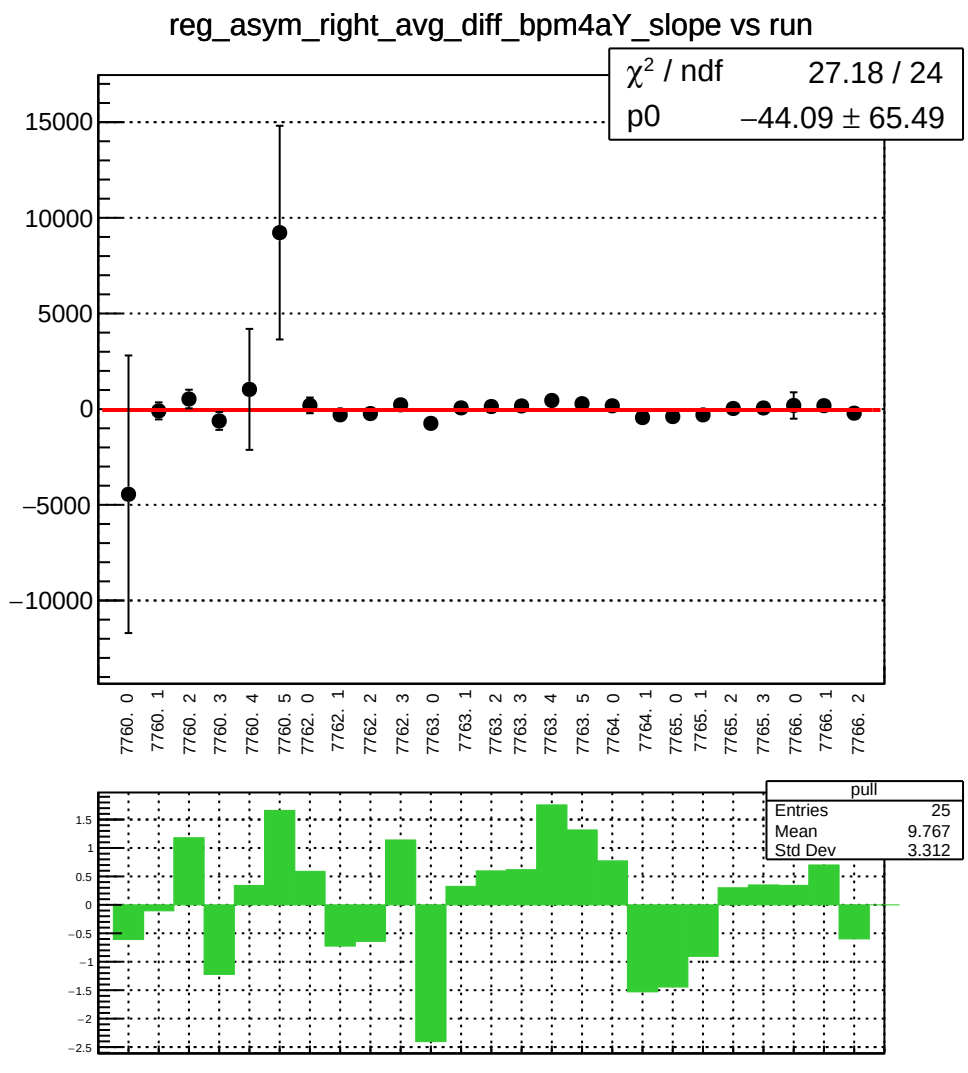

pull1D
Entries 25
Mean 0.2579
Std Dev 1.216
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

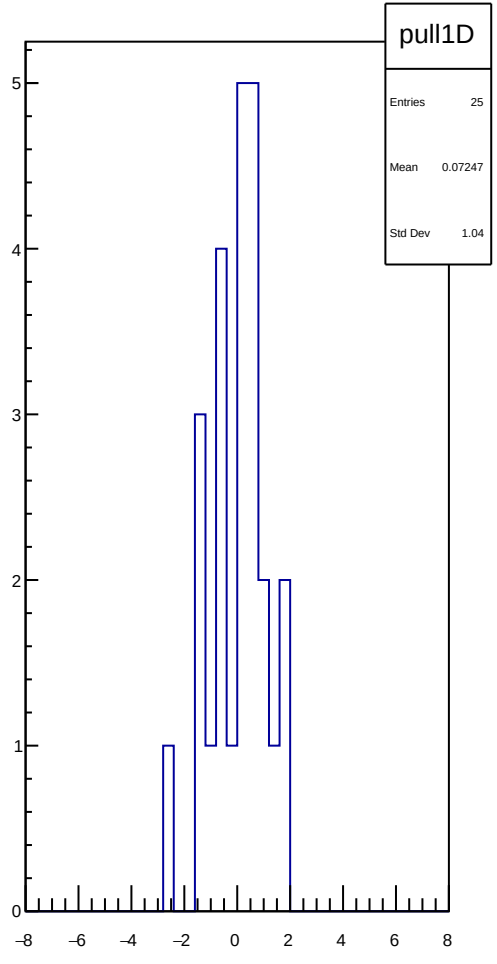

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 35.47 / 24
p0 −23.95 ± 2.874
15000
10000
5000
0
−5000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 17.29
Std Dev 2.139
3
2
1
0
−1
−2

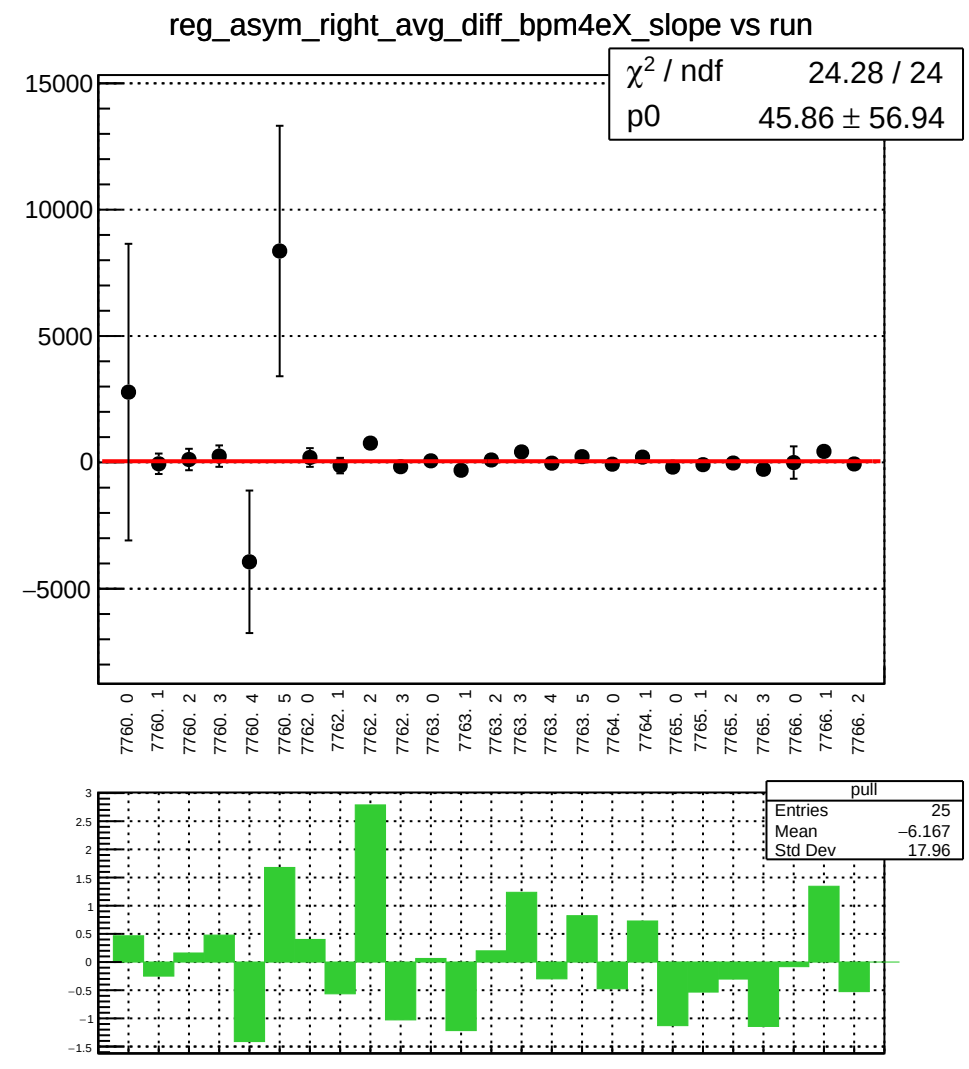

pull1D
Entries 25
Mean 0.3157
Std Dev 1.148
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

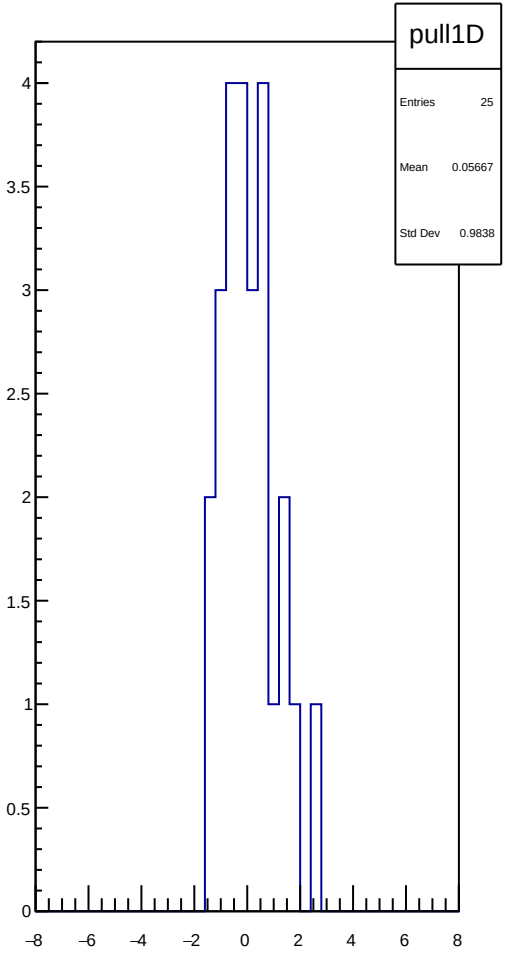

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 24.07 / 24
p0 −57.01± 61.44
5000
0
−5000
−10000
−15000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −6.53
Std Dev 18.4
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

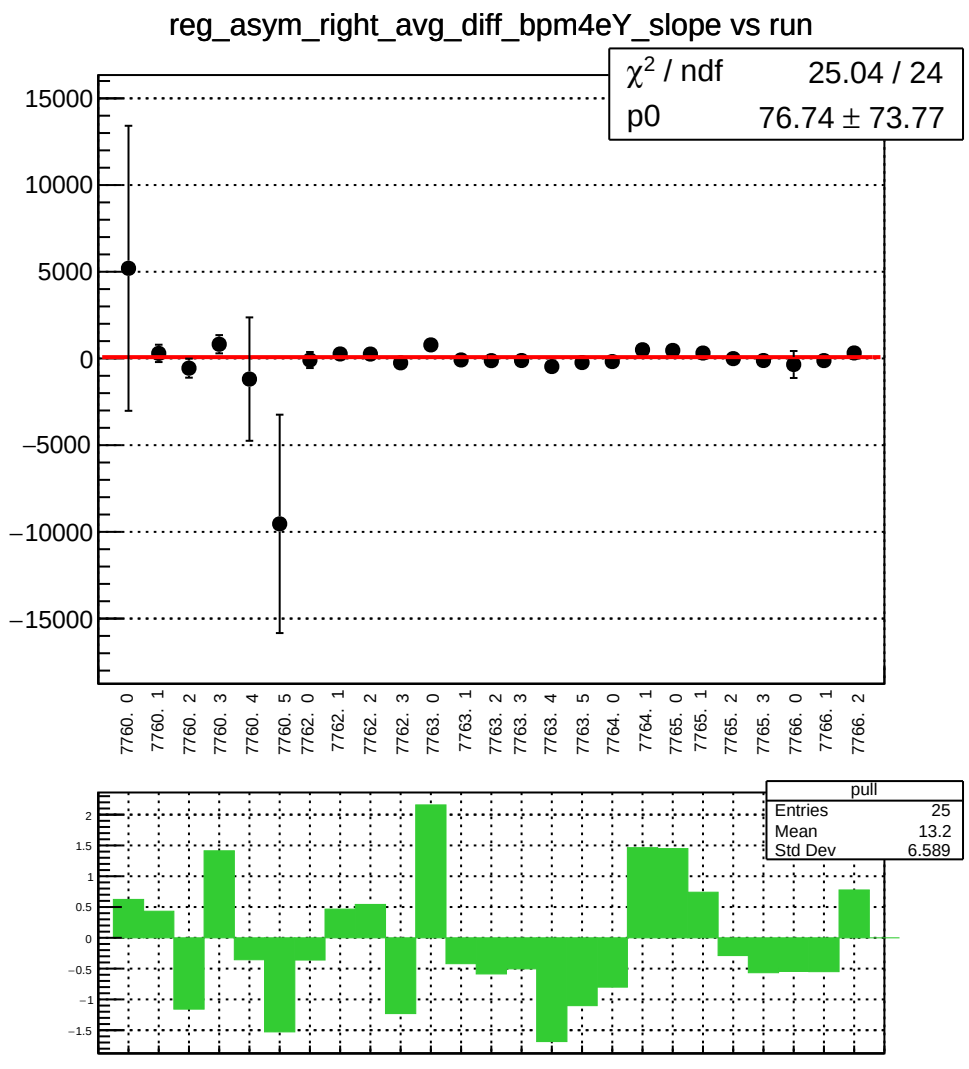

pull1D
Entries 25
Mean −0.0581
Std Dev 0.9794
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

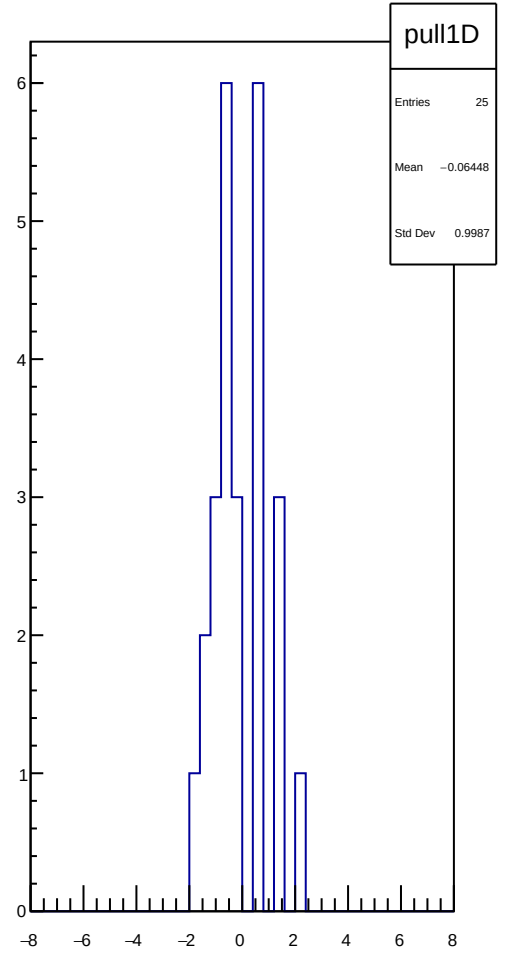

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 27.18 / 24
p0 −44.09 ± 65.49
15000
10000
5000
0
−5000
−10000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 9.767
Std Dev 3.312
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

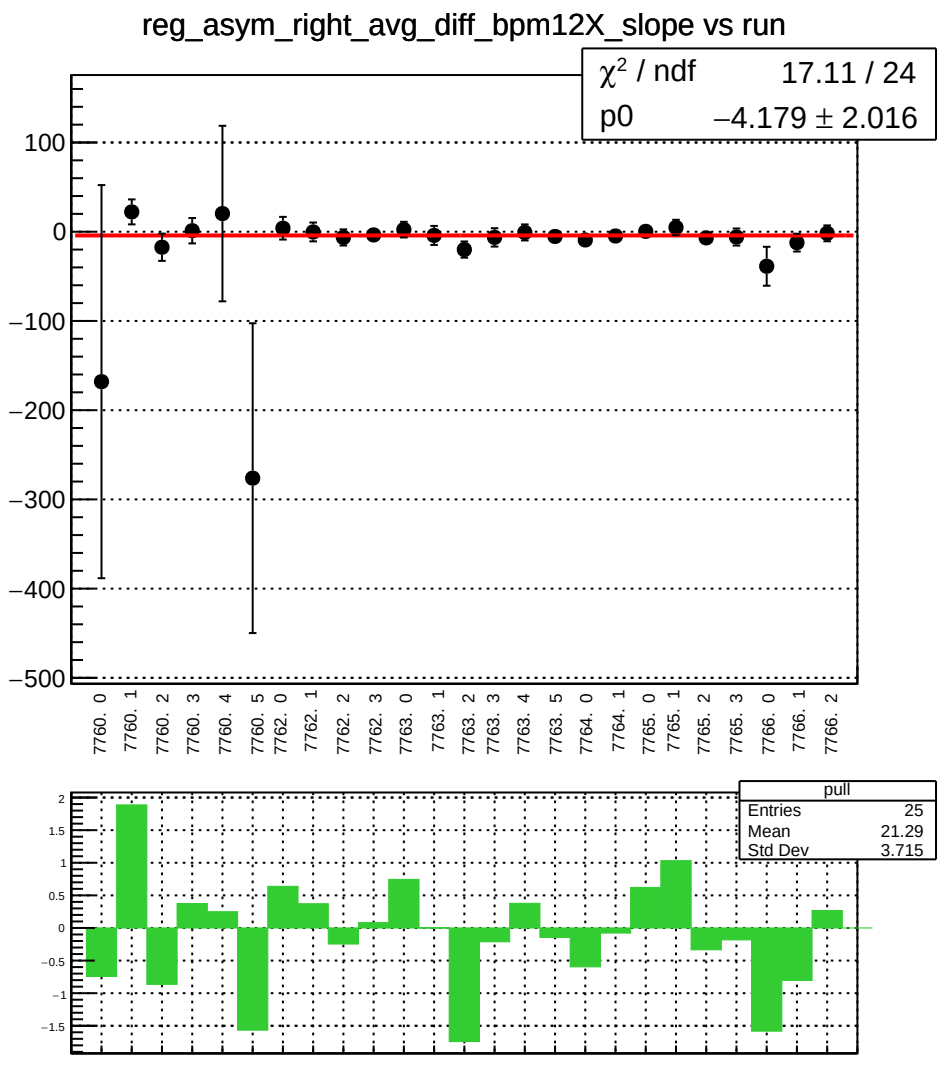

pull1D
Entries 25
Mean 0.07247
Std Dev 1.04
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

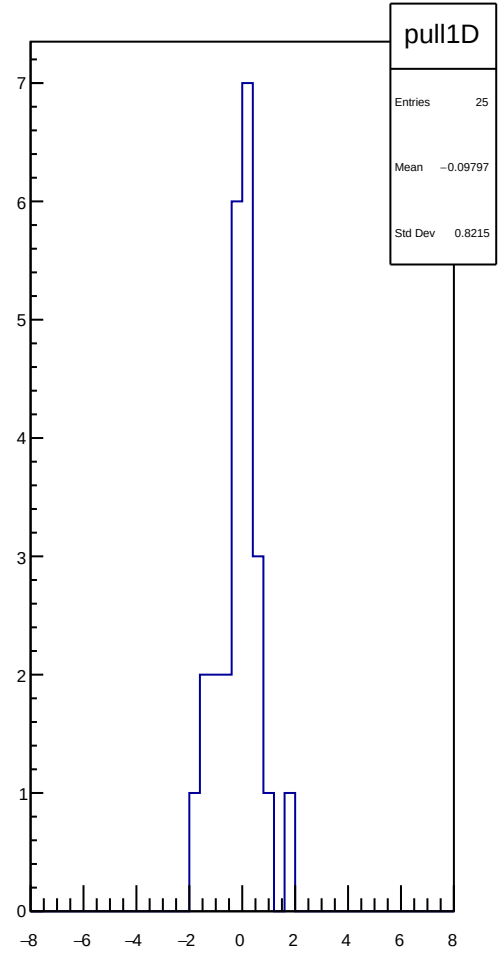

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 24.28 / 24
p0 45.86 ± 56.94
15000
10000
5000
0
−5000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −6.167
Std Dev 17.96
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

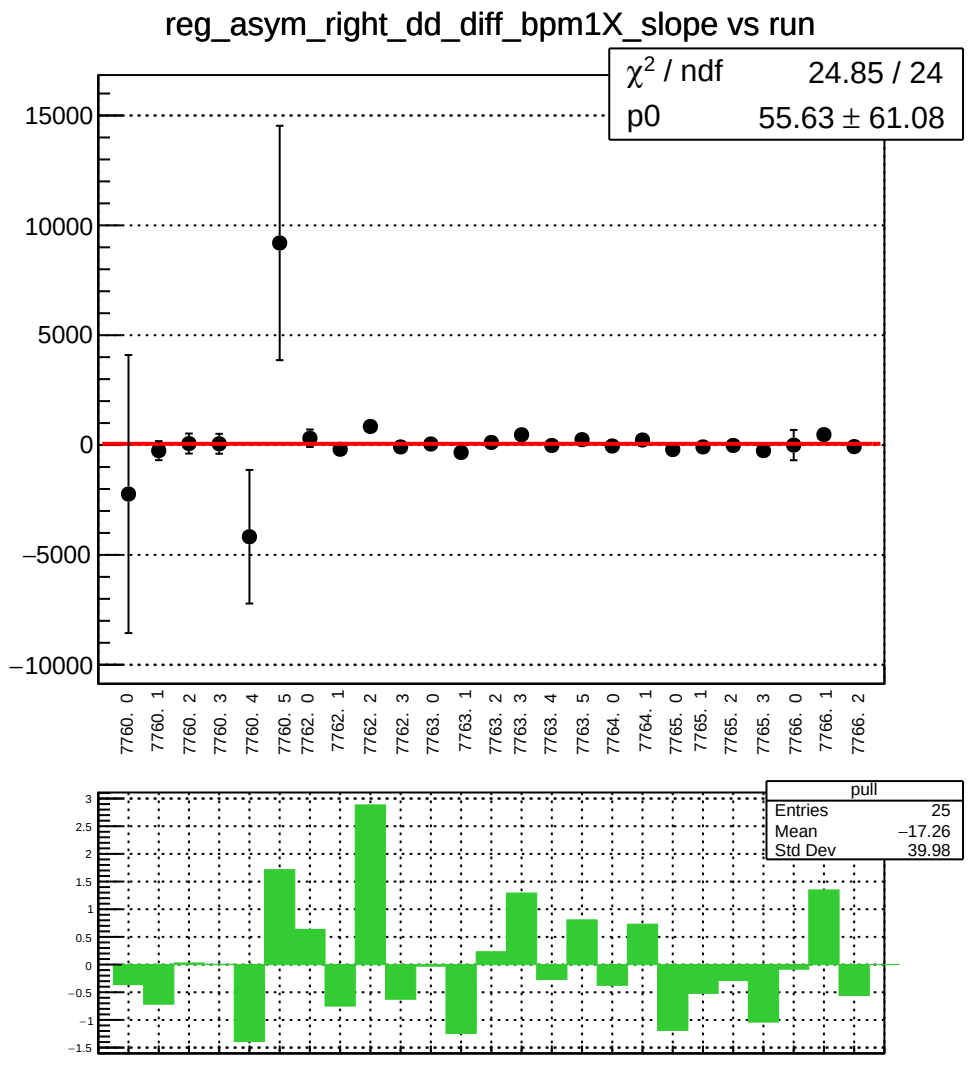

pull1D
Entries 25
Mean 0.05667
Std Dev 0.9838
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

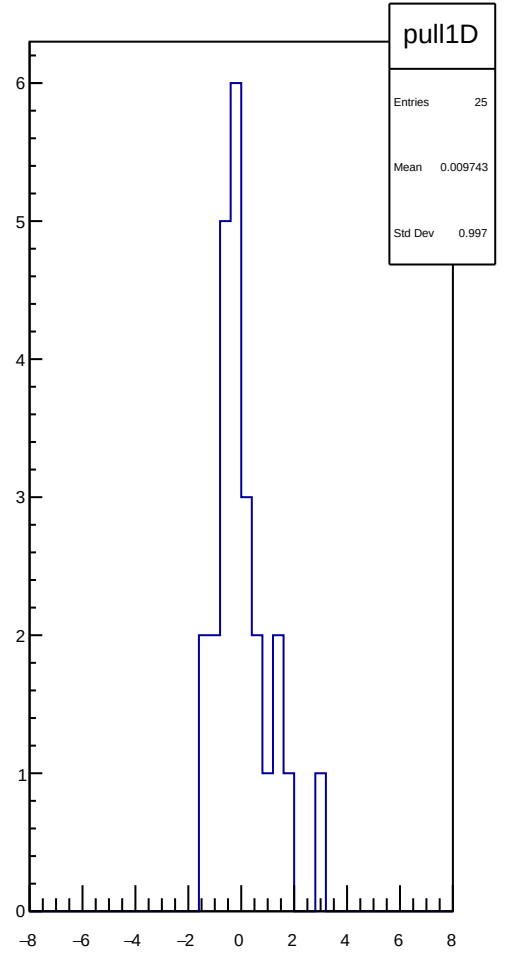

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 25.04 / 24
p0 76.74 ± 73.77
15000
10000
5000
0
−5000
−10000
−15000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 13.2
Std Dev 6.589
2
1.5
1
0.5
0
−0.5
−1
−1.5

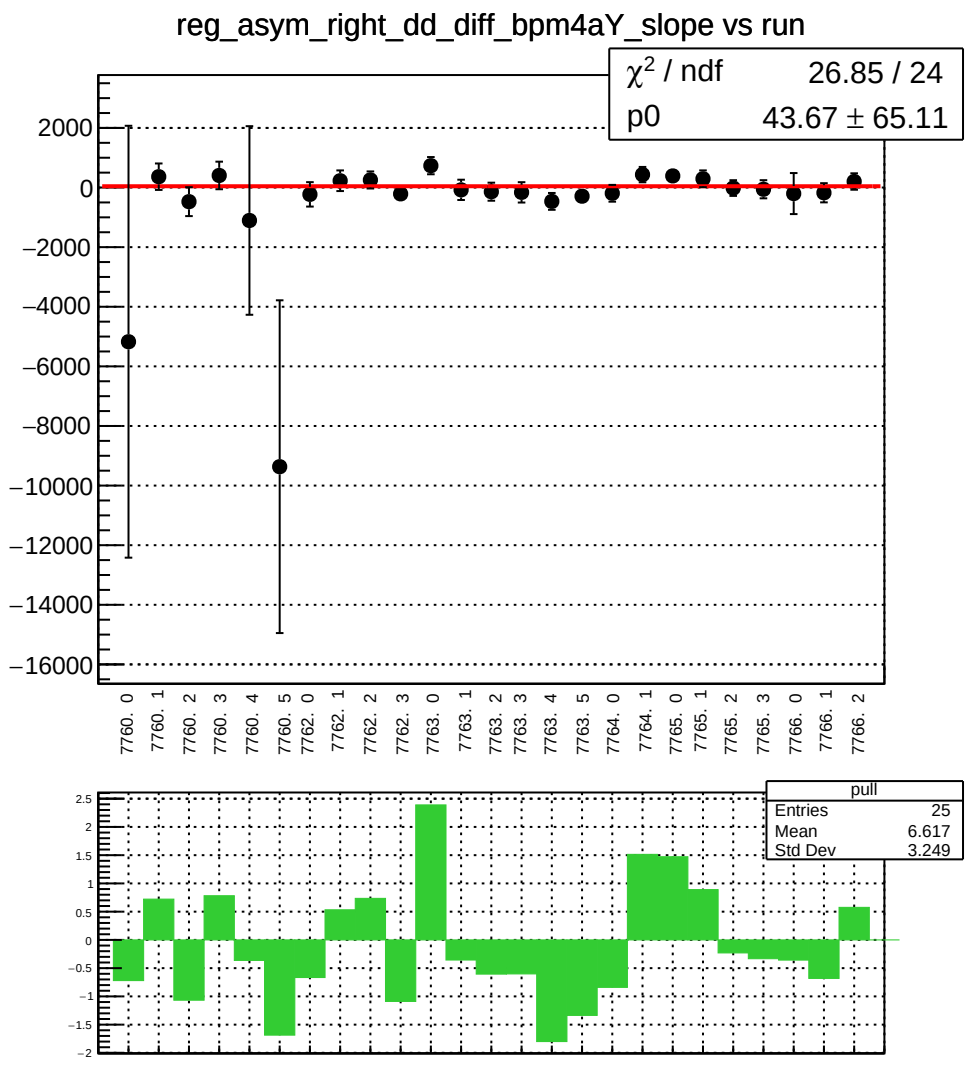

pull1D
Entries 25
Mean −0.06448
Std Dev 0.9987
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

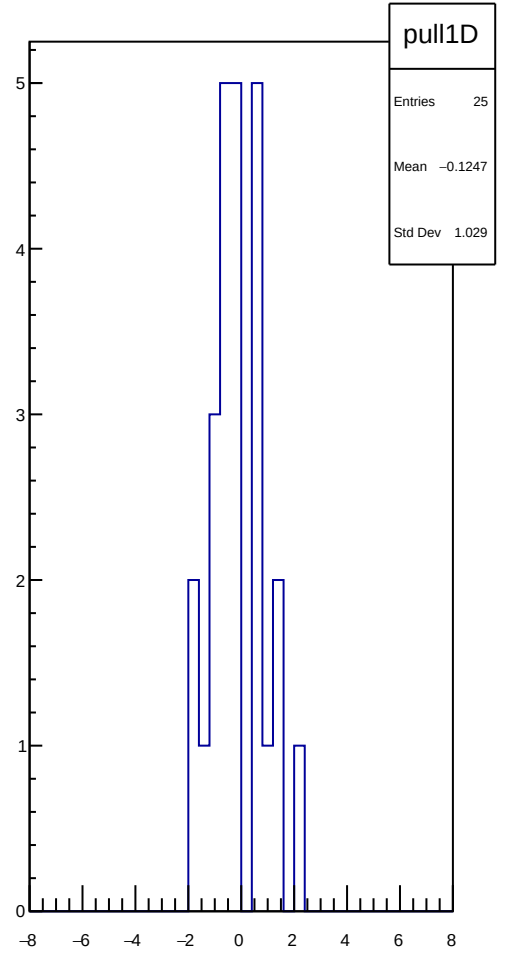

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 17.11 / 24
p0 −4.179 ± 2.016
100
0
−100
−200
−300
−400
−500
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 21.29
Std Dev 3.715
2
1.5
1
0.5
0
−0.5
−1
−1.5

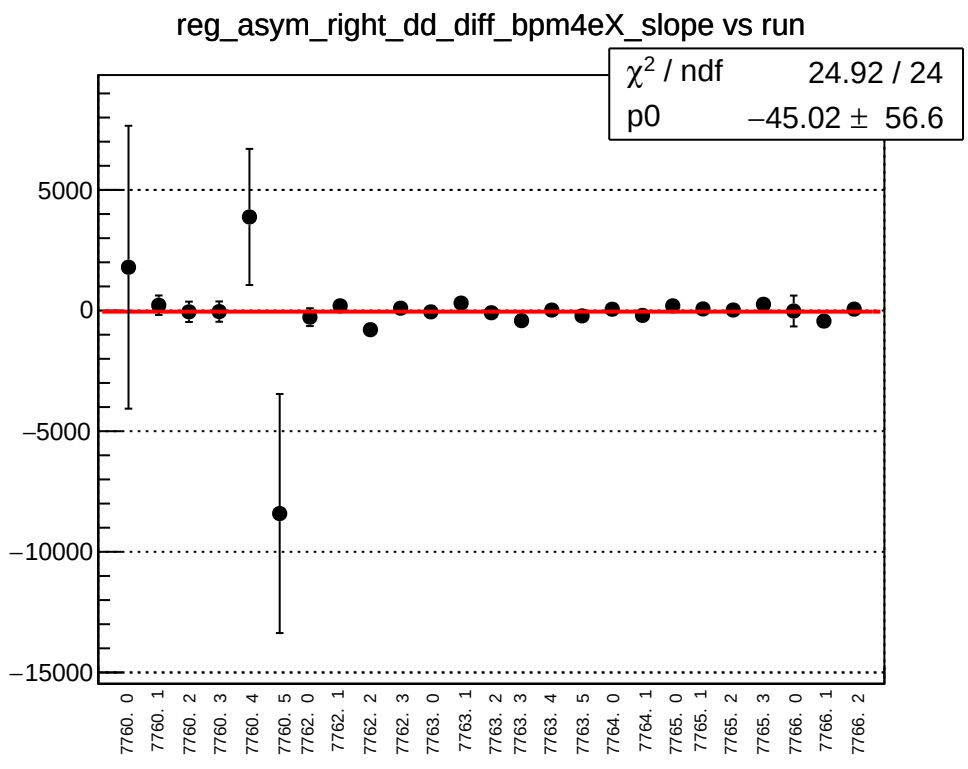

pull1D
Entries 25
Mean −0.09797
Std Dev 0.8215
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

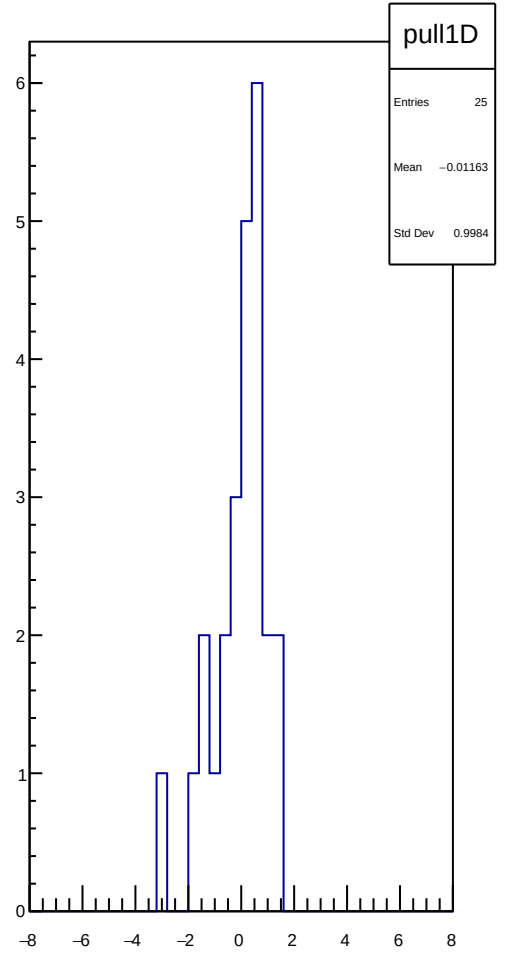

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 24.85 / 24
p0 55.63 ± 61.08
15000
10000
5000
0
−5000
−10000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −17.26
Std Dev 39.98
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

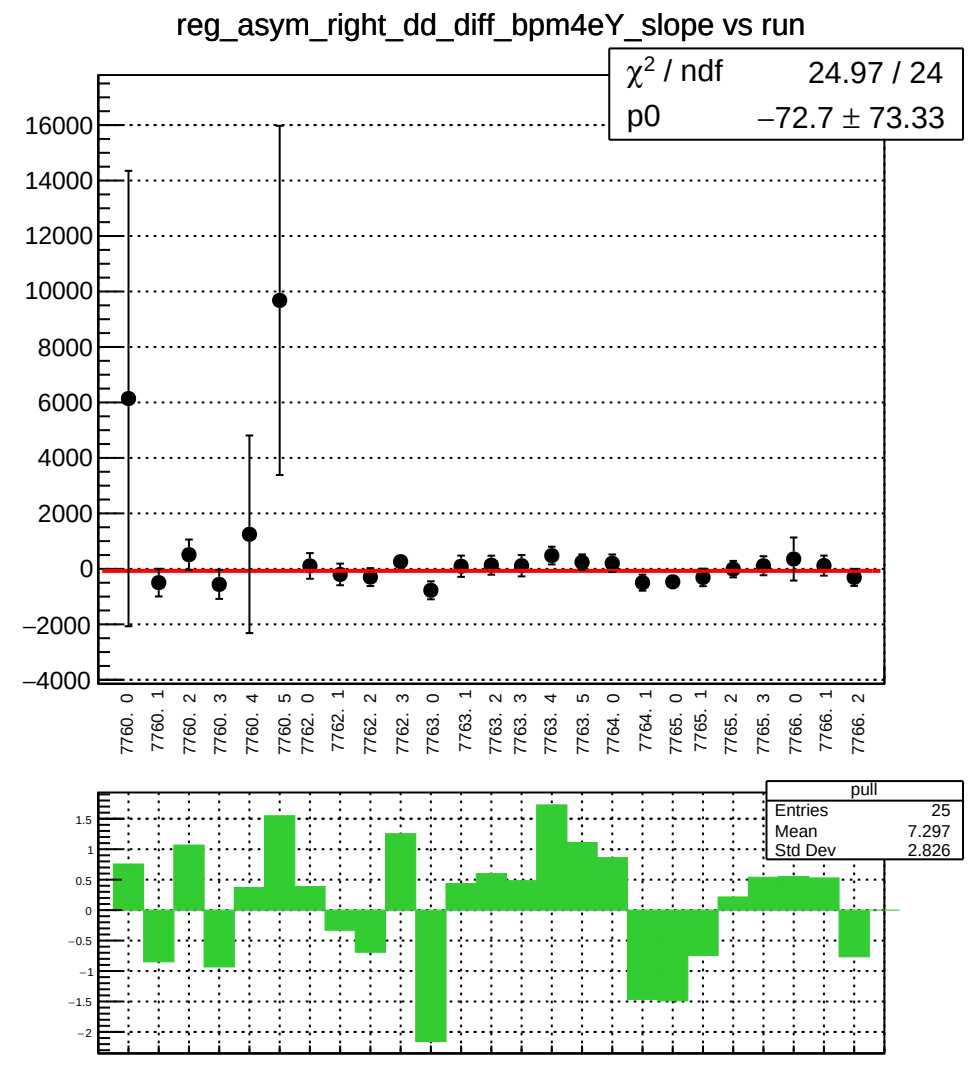

pull1D
Entries 25
Mean 0.009743
Std Dev 0.997
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

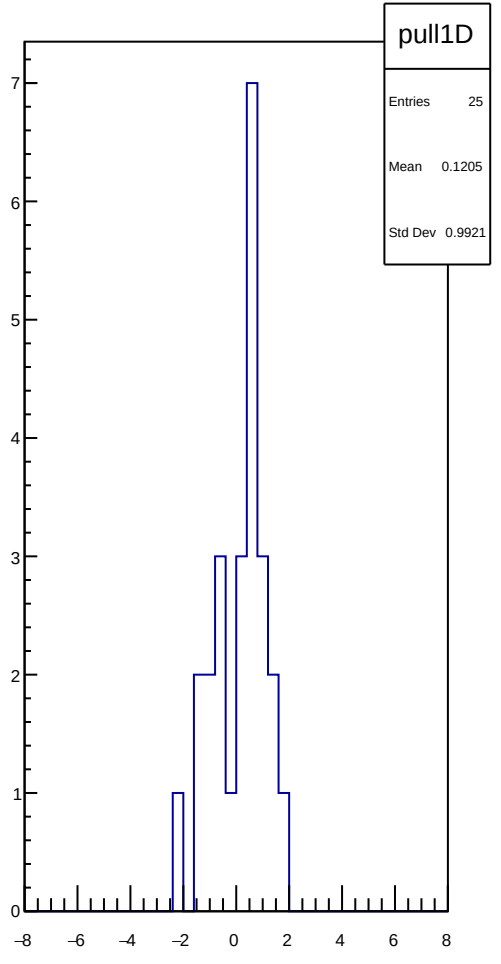

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 26.85 / 24
p0 43.67 ± 65.11
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
−14000
−16000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 6.617
Std Dev 3.249
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

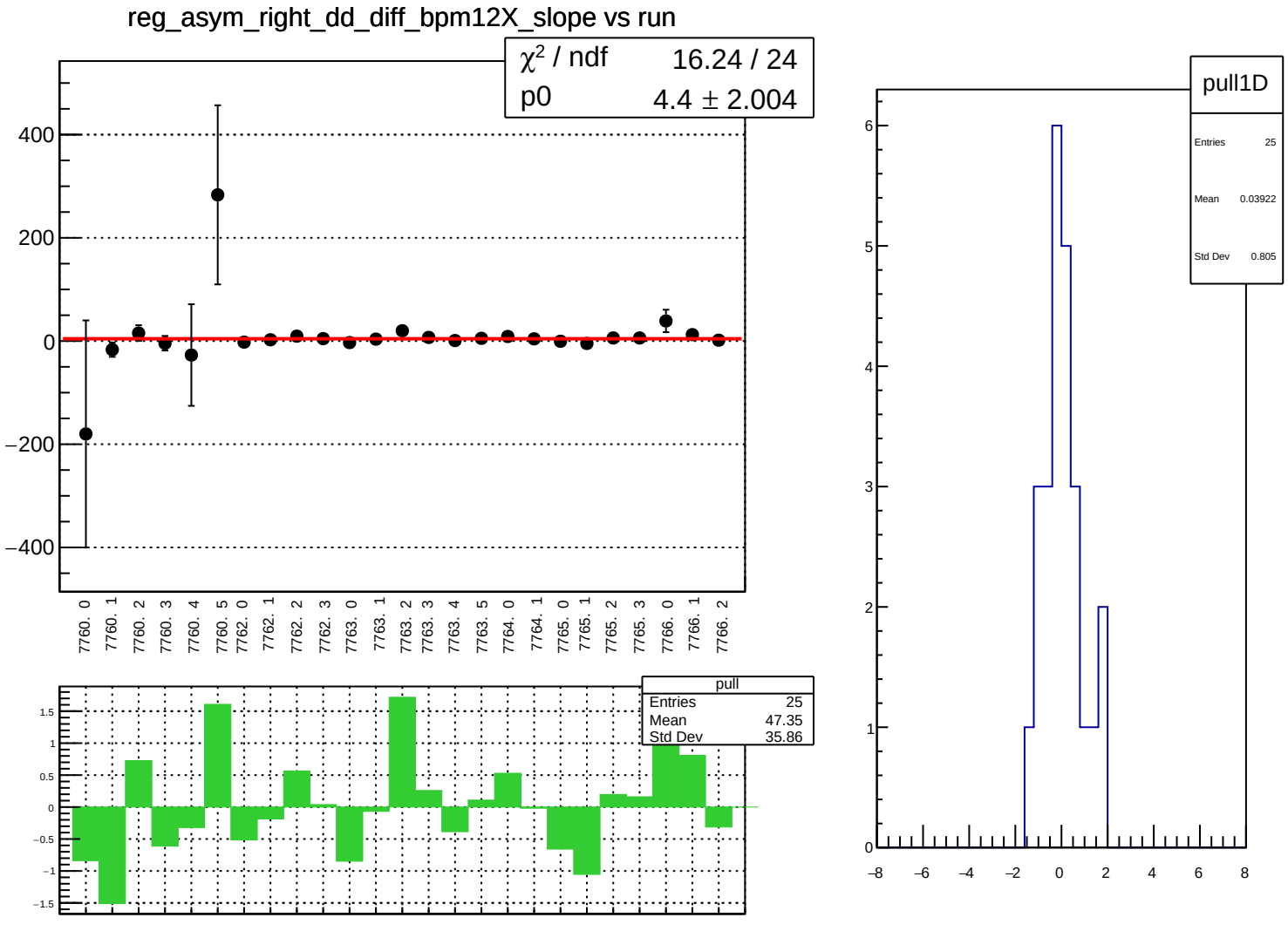

pull1D
Entries 25
Mean −0.1247
Std Dev 1.029
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

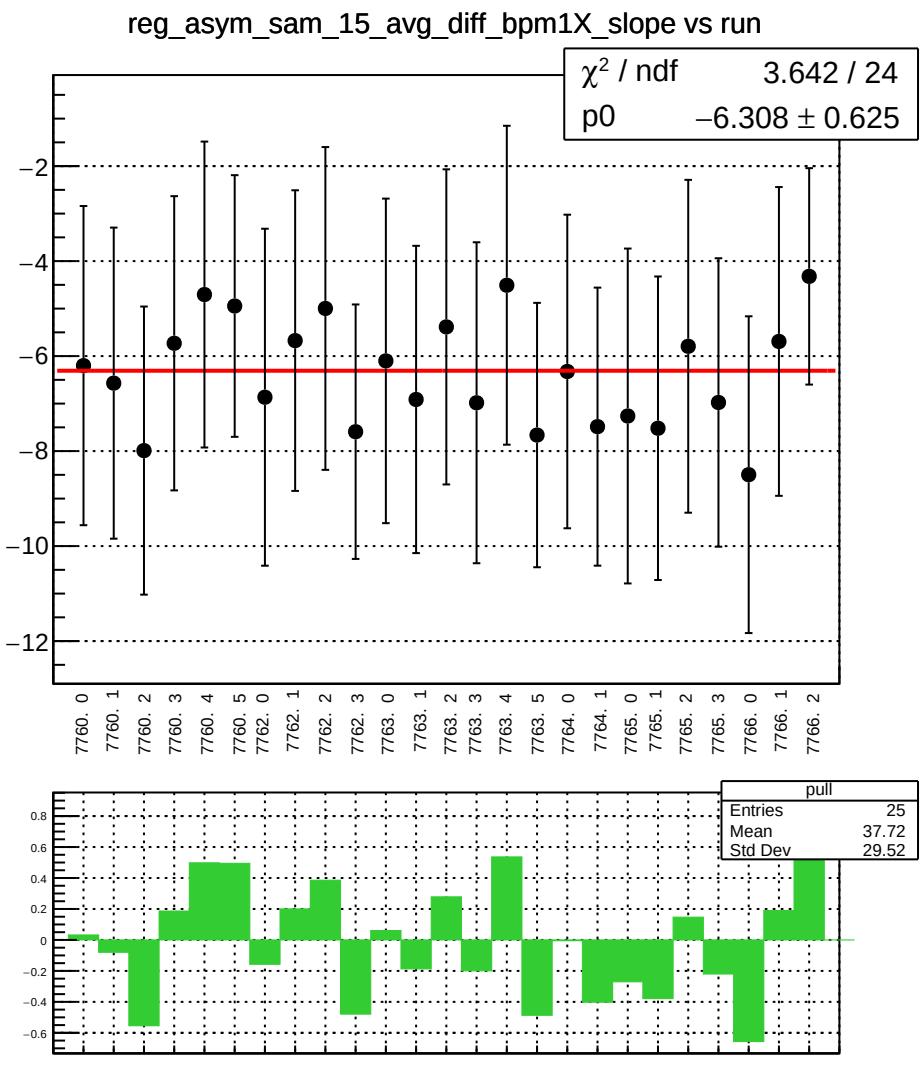

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 24.92 / 24
p0 −45.02 ± 56.6
5000
0
−5000
−10000
−15000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −12.27
Std Dev 33.93
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

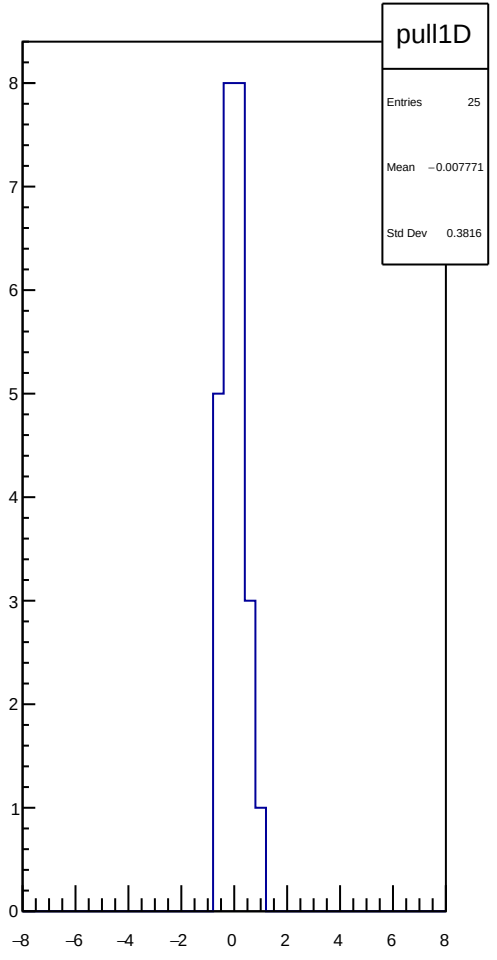

pull1D
Entries 25
Mean −0.01163
Std Dev 0.9984
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

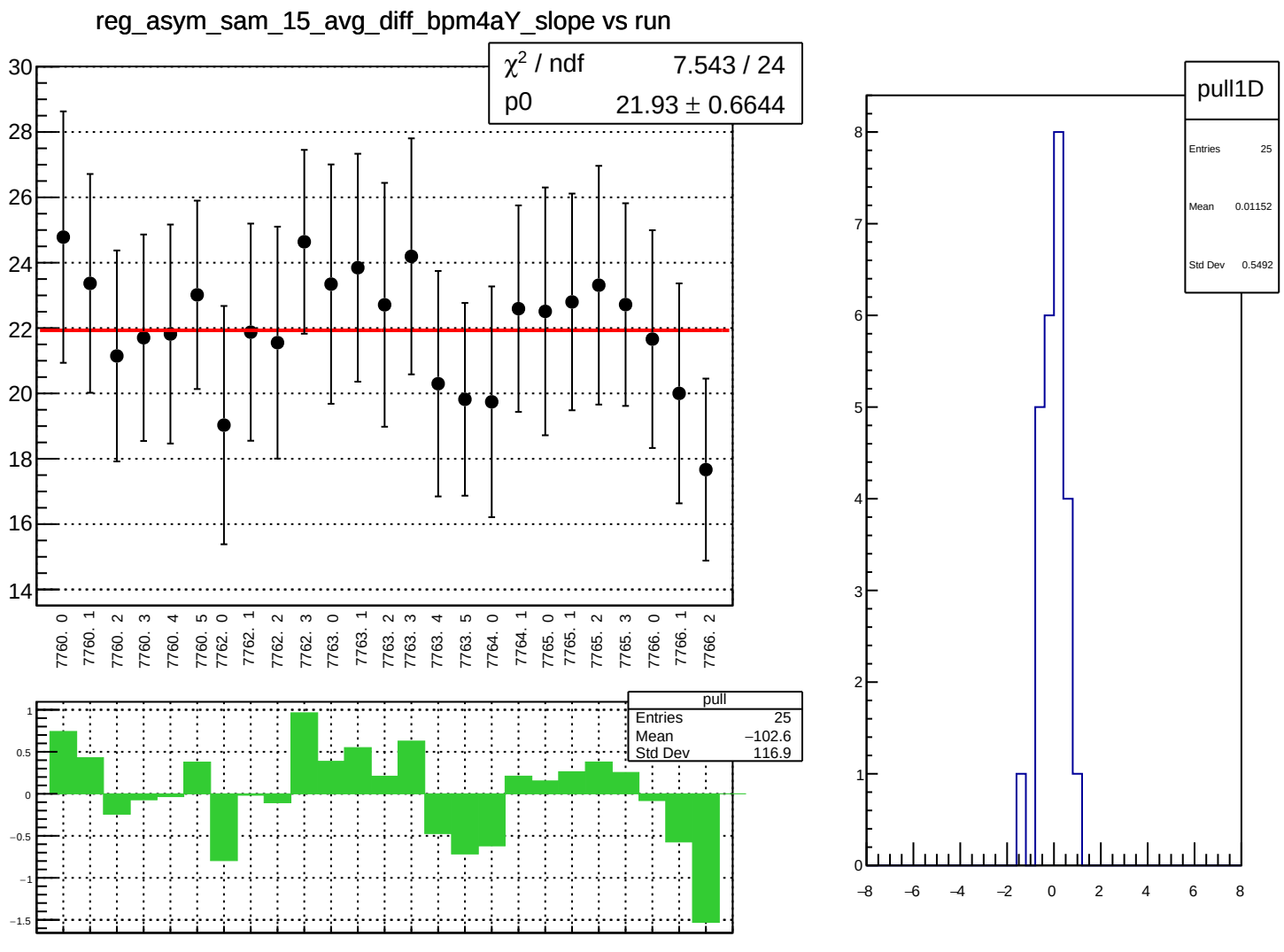

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 24.97 / 24
p0 −72.7 ± 73.33
16000
14000
12000
10000
8000
6000
4000
2000
0
−2000
−4000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 7.297
Std Dev 2.826
1.5
1
0.5
0
−0.5
−1
−1.5
−2

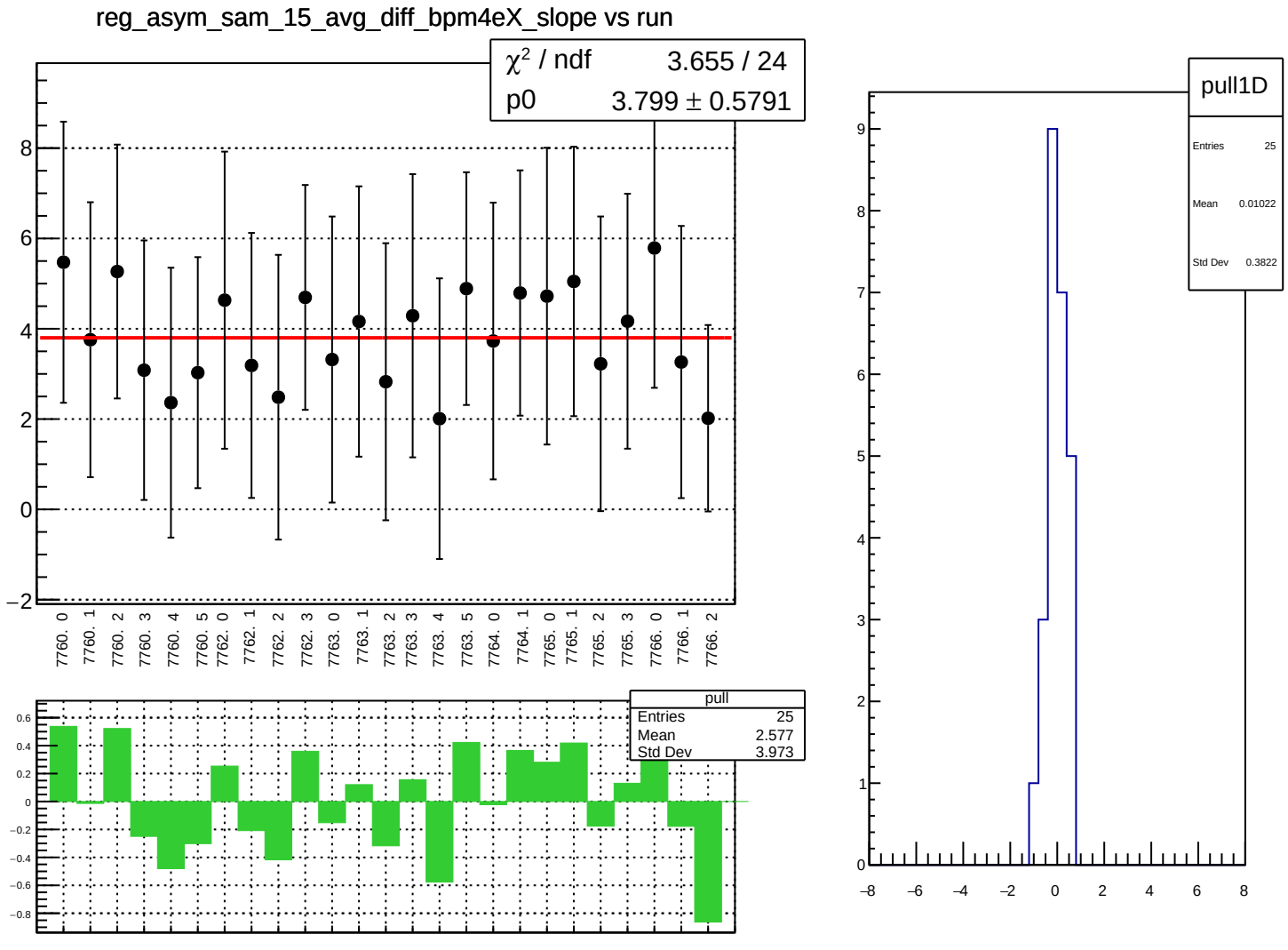

pull1D
Entries 25
Mean 0.1205
Std Dev 0.9921
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

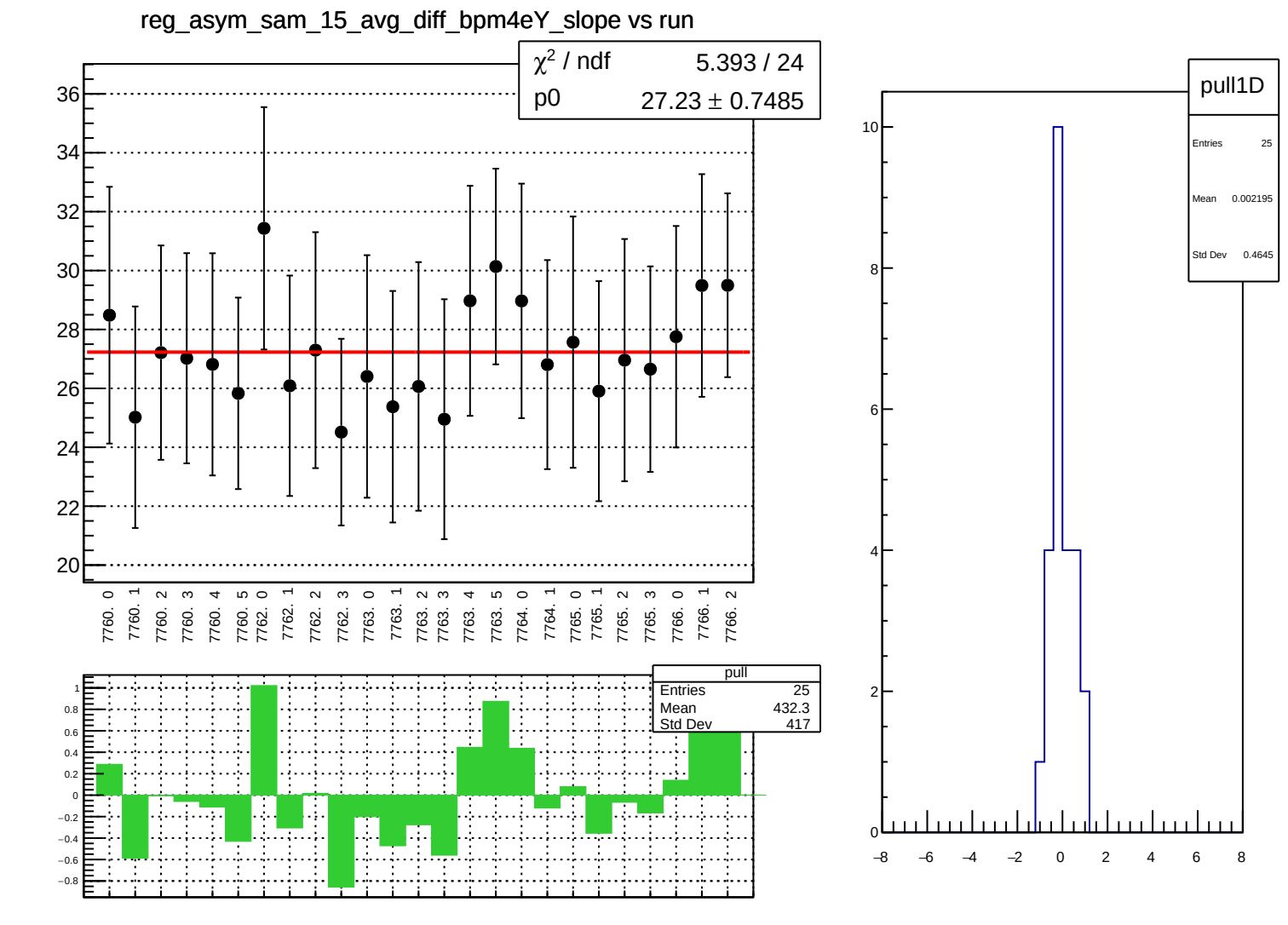

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 16.24 / 24
p0 4.4 ± 2.004
400
200
0
−200
−400
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 47.35
Std Dev 35.86
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 25
Mean 0.03922
Std Dev 0.805
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

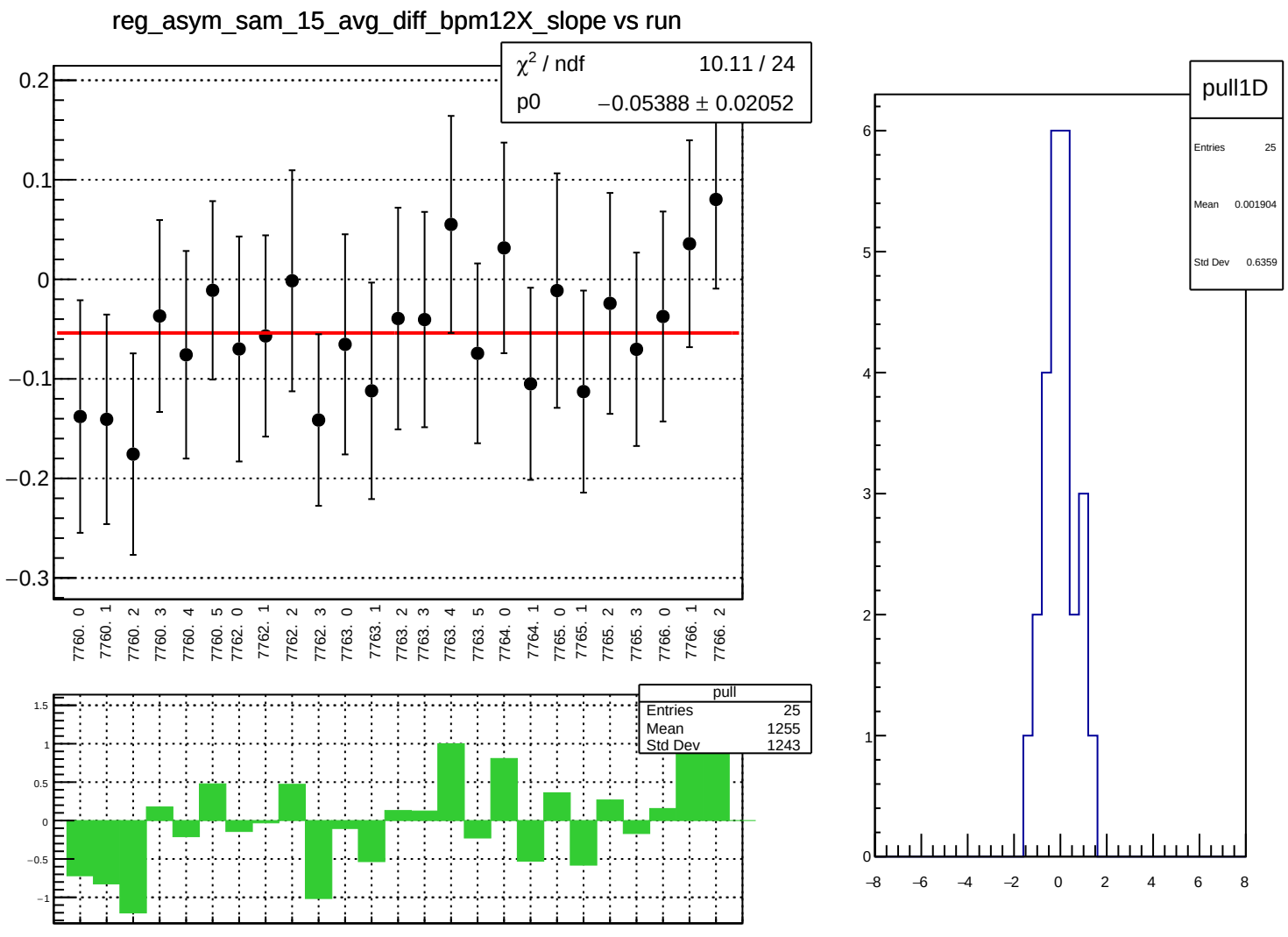

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 3.642 / 24
p0 −6.308 ± 0.625
−2
−4
−6
−8
−10
−12
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 37.72
Std Dev 29.52
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

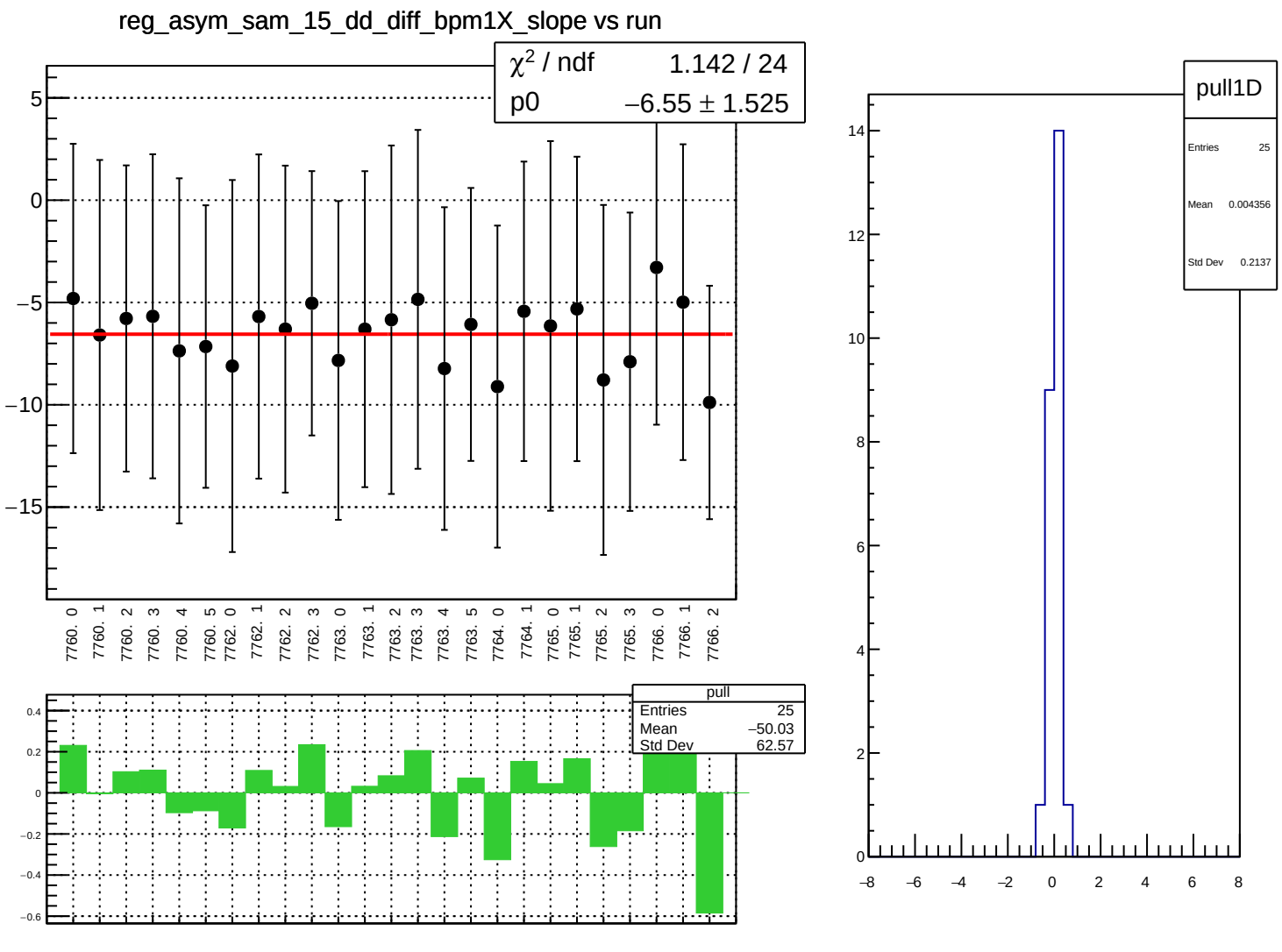

pull1D
Entries 25
Mean −0.007771
Std Dev 0.3816
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

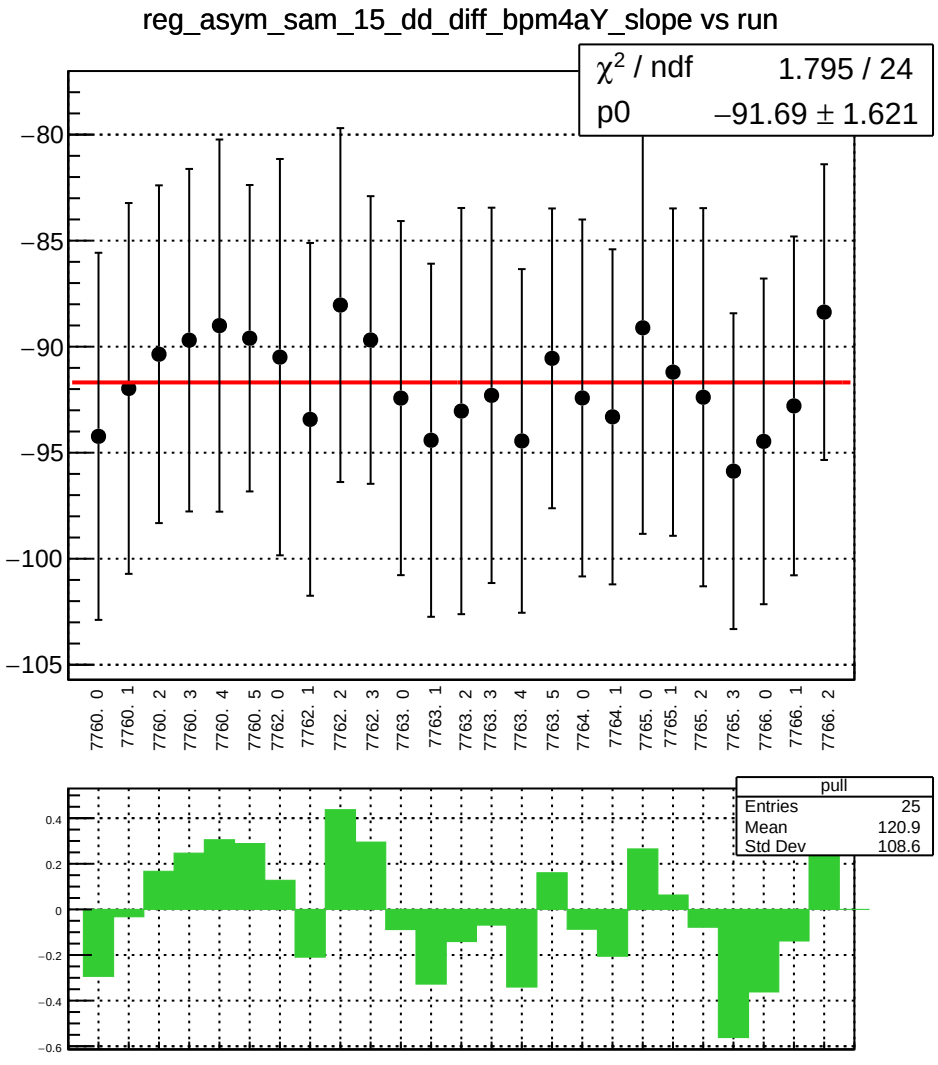

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.543 / 24
p0 21.93 ± 0.6644
30
28
26
24
22
20
18
16
14
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −102.6
Std Dev 116.9
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 25
Mean 0.01152
Std Dev 0.5492
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

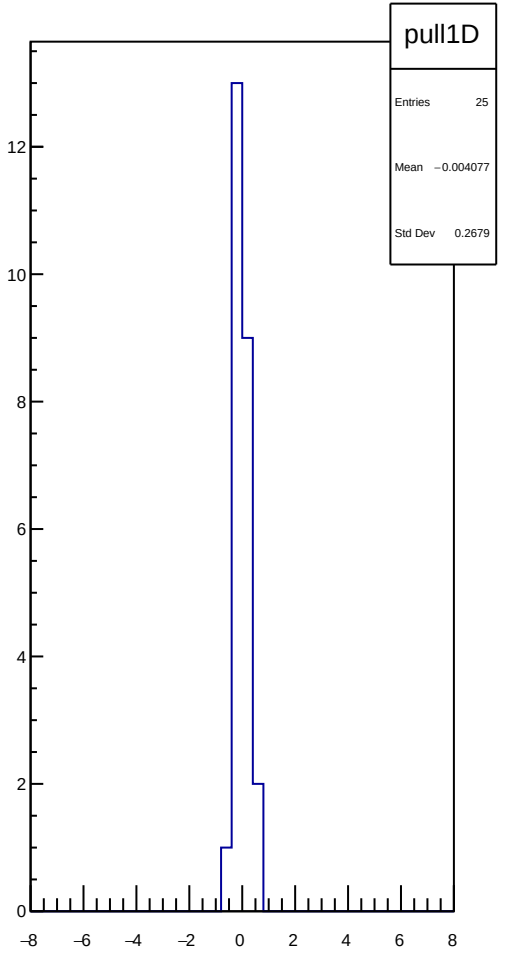

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.655 / 24
p0 3.799 ± 0.5791
pull
Entries 25
Mean 2.577
Std Dev 3.973
pull1D
Entries 25
Mean 0.01022
Std Dev 0.3822

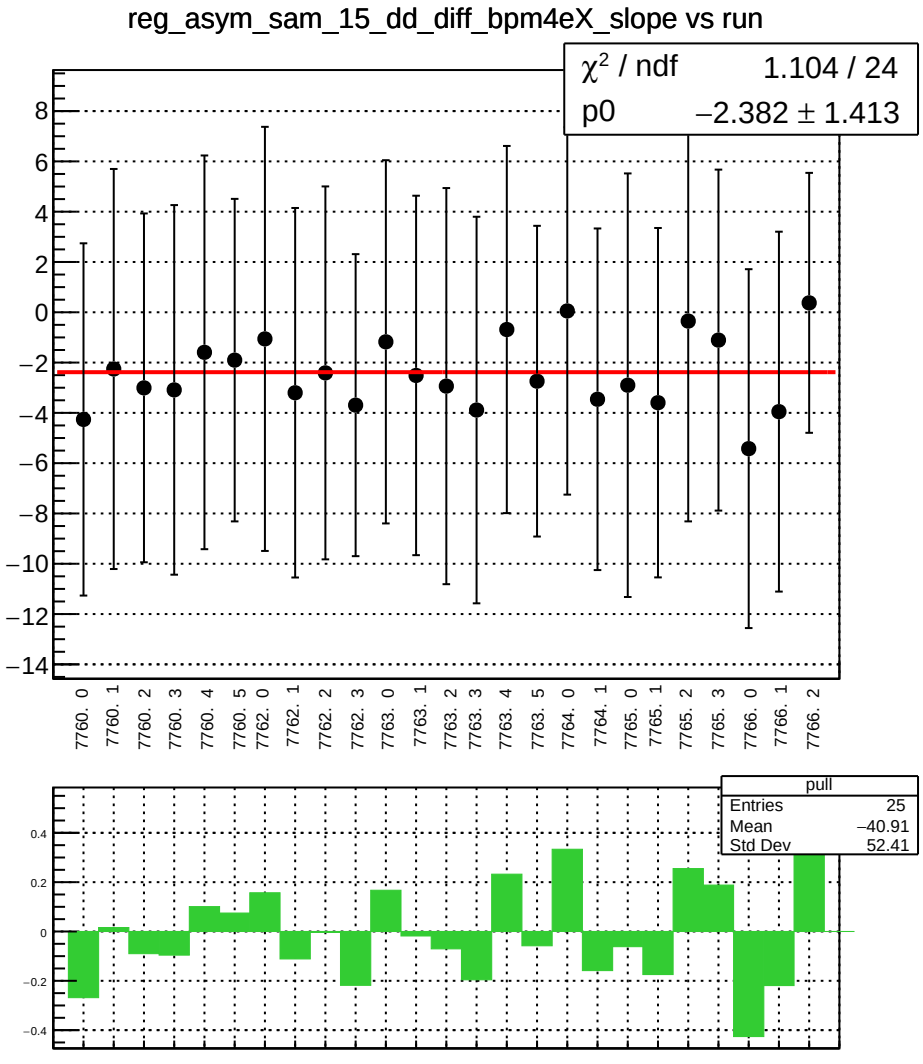

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.393 / 24
p0 27.23 ± 0.7485
pull
Entries 25
Mean 432.3
Std Dev 417
pull1D
Entries 25
Mean 0.002195
Std Dev 0.4645

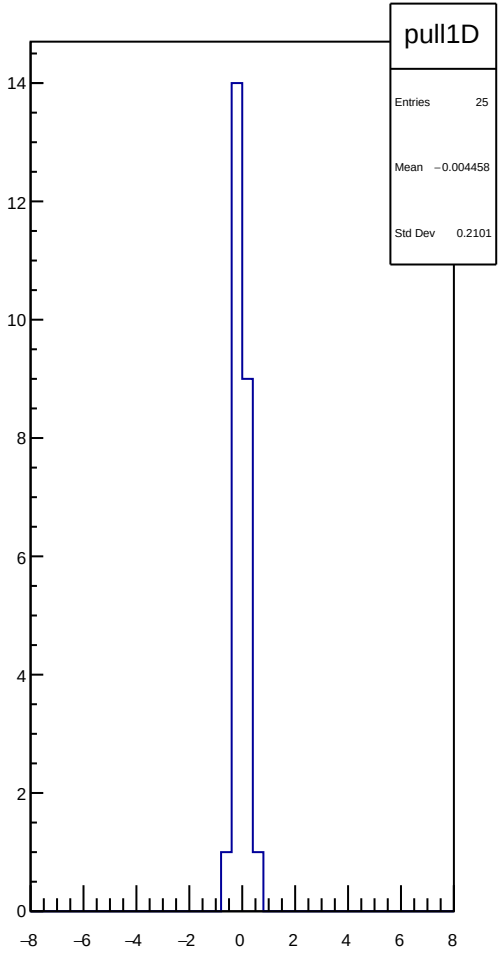

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 10.11 / 24
p0 −0.05388 ± 0.02052
0.2
0.1
0
−0.1
−0.2
−0.3
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 1255
Std Dev 1243
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 25
Mean 0.001904
Std Dev 0.6359
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

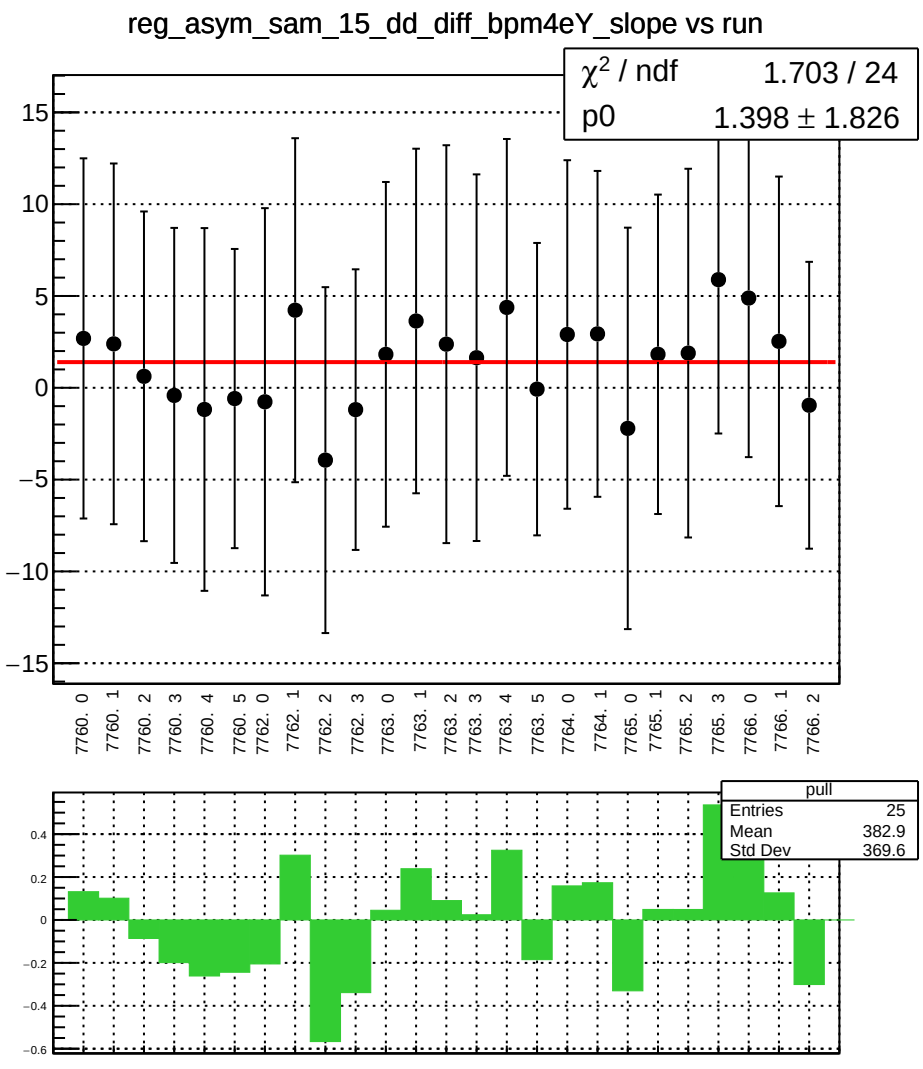

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 1.142 / 24
p0 −6.55 ± 1.525
5
0
−5
−10
−15
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −50.03
Std Dev 62.57
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 25
Mean 0.004356
Std Dev 0.2137
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

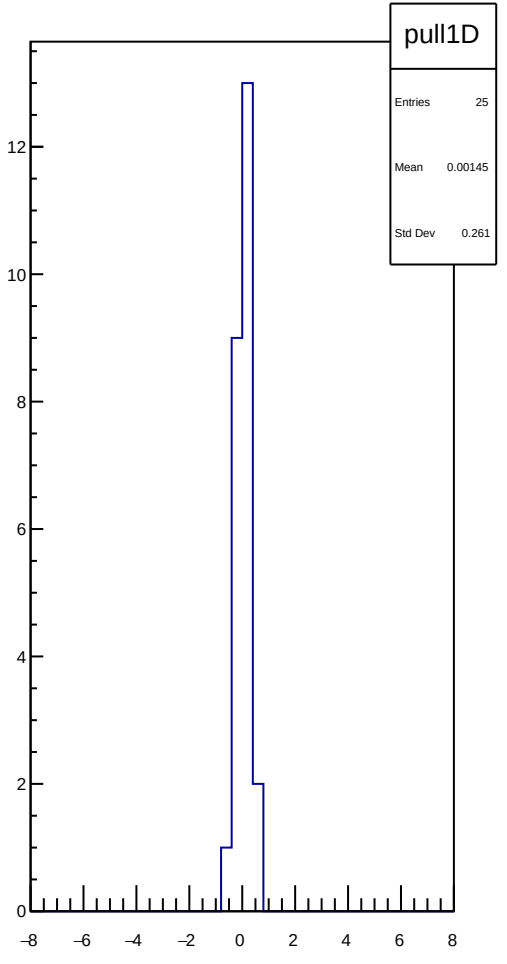

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.795 / 24
p0 −91.69 ± 1.621
−80
−85
−90
−95
−100
−105
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 120.9
Std Dev 108.6
0.4
0.2
0
−0.2
−0.4
−0.6

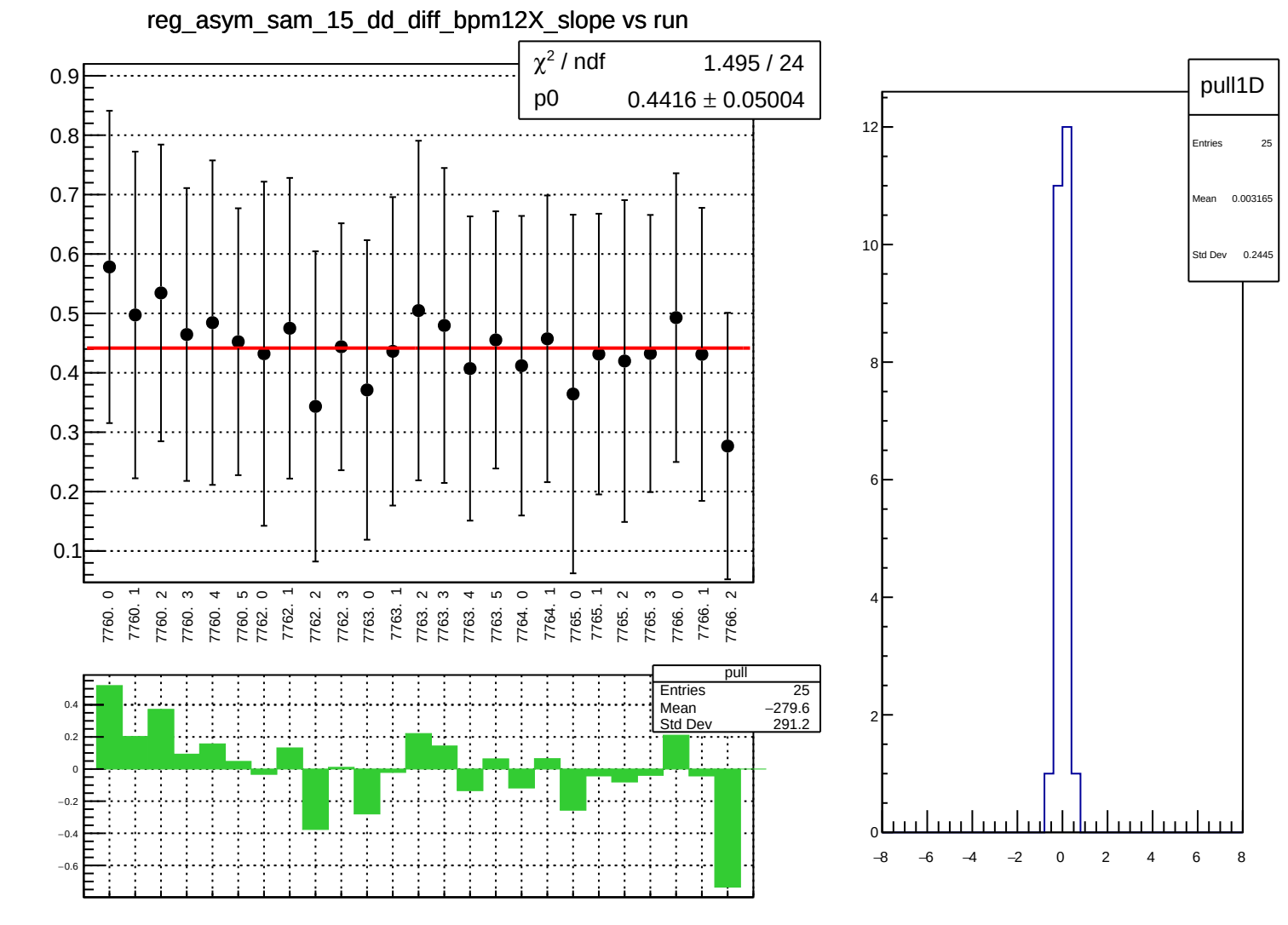

pull1D
Entries 25
Mean −0.004077
Std Dev 0.2679
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

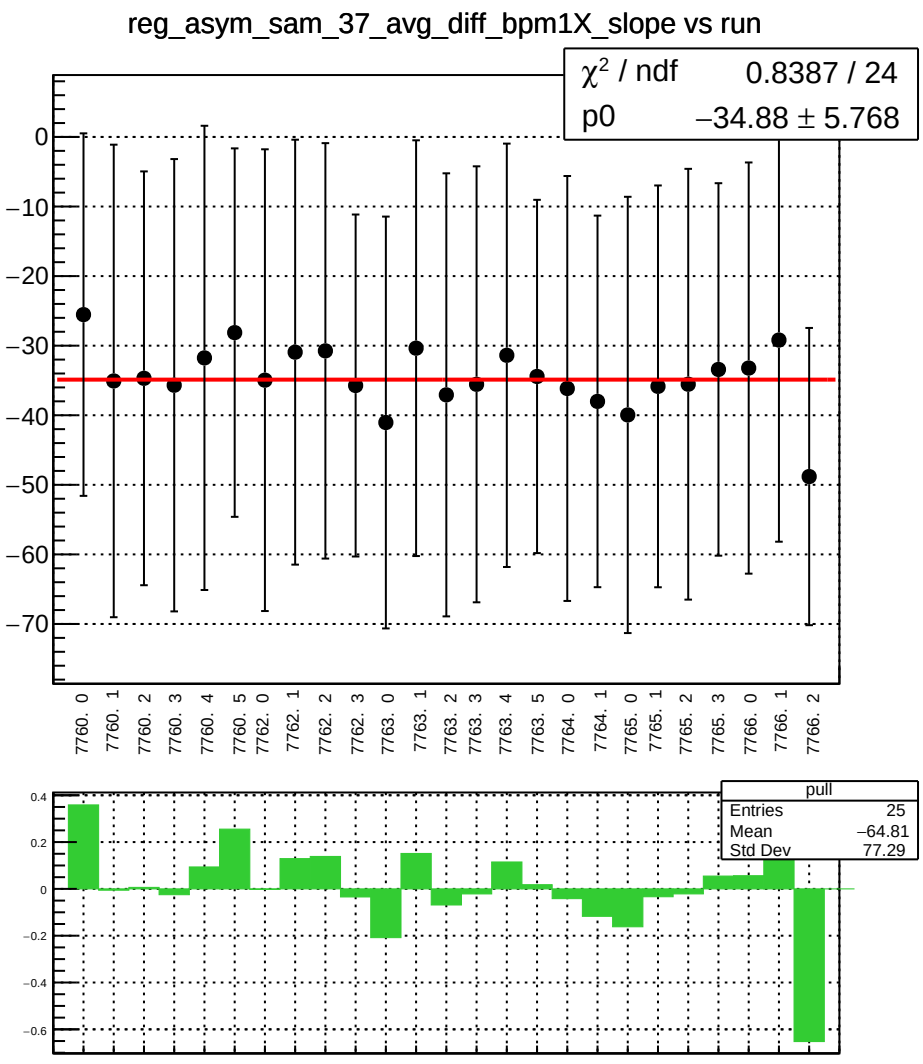

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.104 / 24
p0 −2.382 ± 1.413
8
6
4
2
0
−2
−4
−6
−8
−10
−12
−14
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −40.91
Std Dev 52.41
0.4
0.2
0
−0.2
−0.4

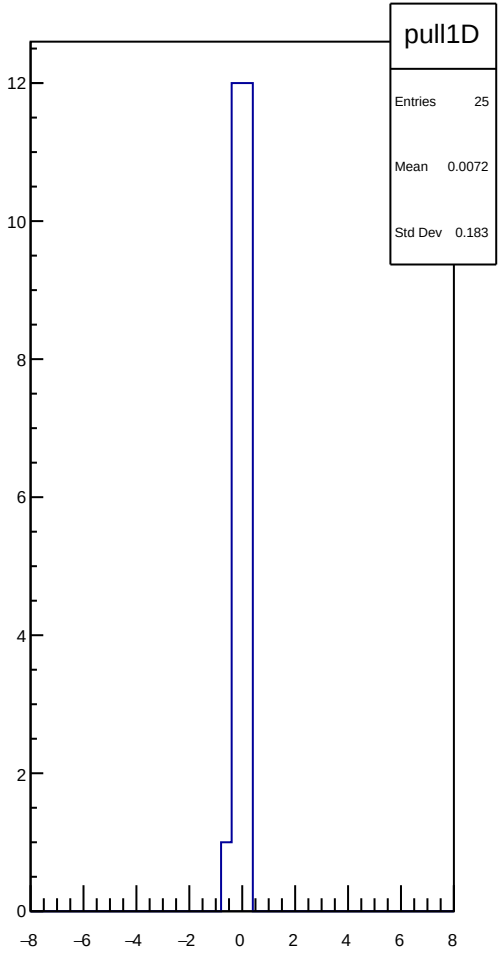

pull1D
Entries 25
Mean −0.004458
Std Dev 0.2101
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

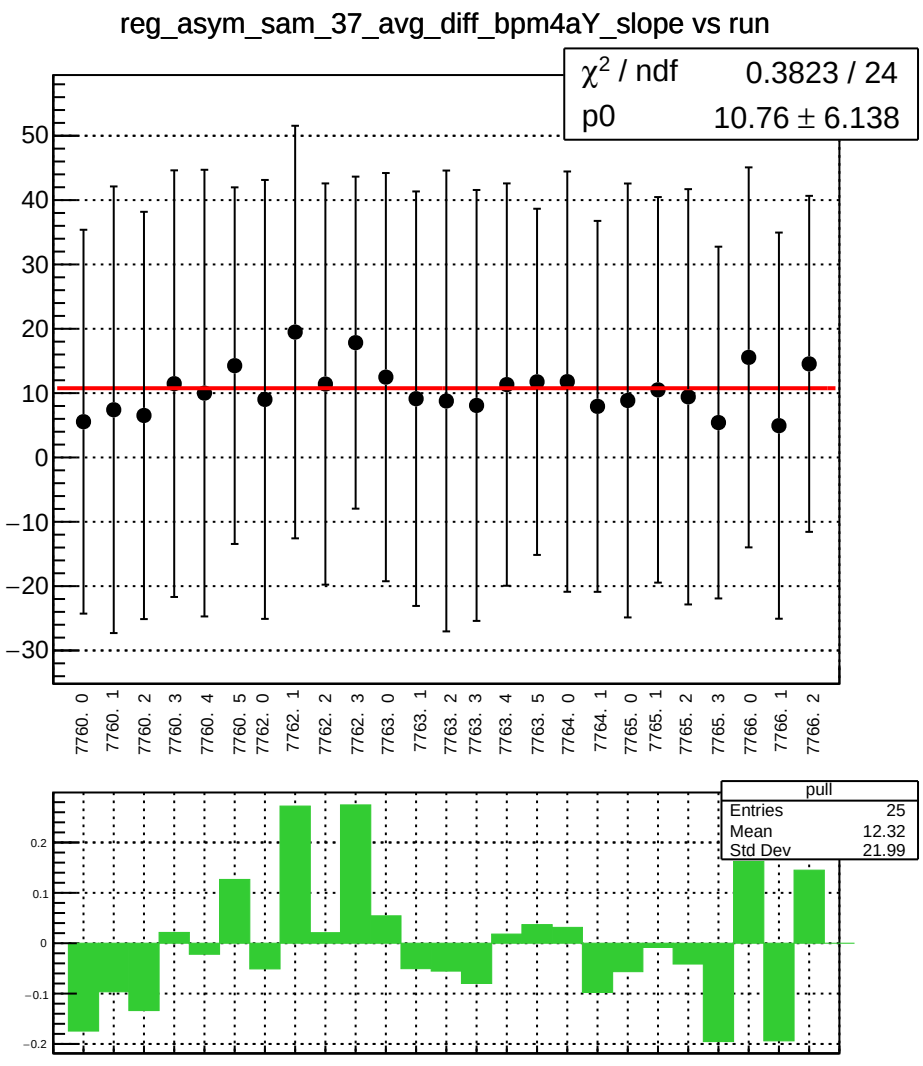

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.703 / 24
p0 1.398 ± 1.826
15
10
5
0
−5
−10
−15
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 382.9
Std Dev 369.6
0.4
0.2
0
−0.2
−0.4
−0.6

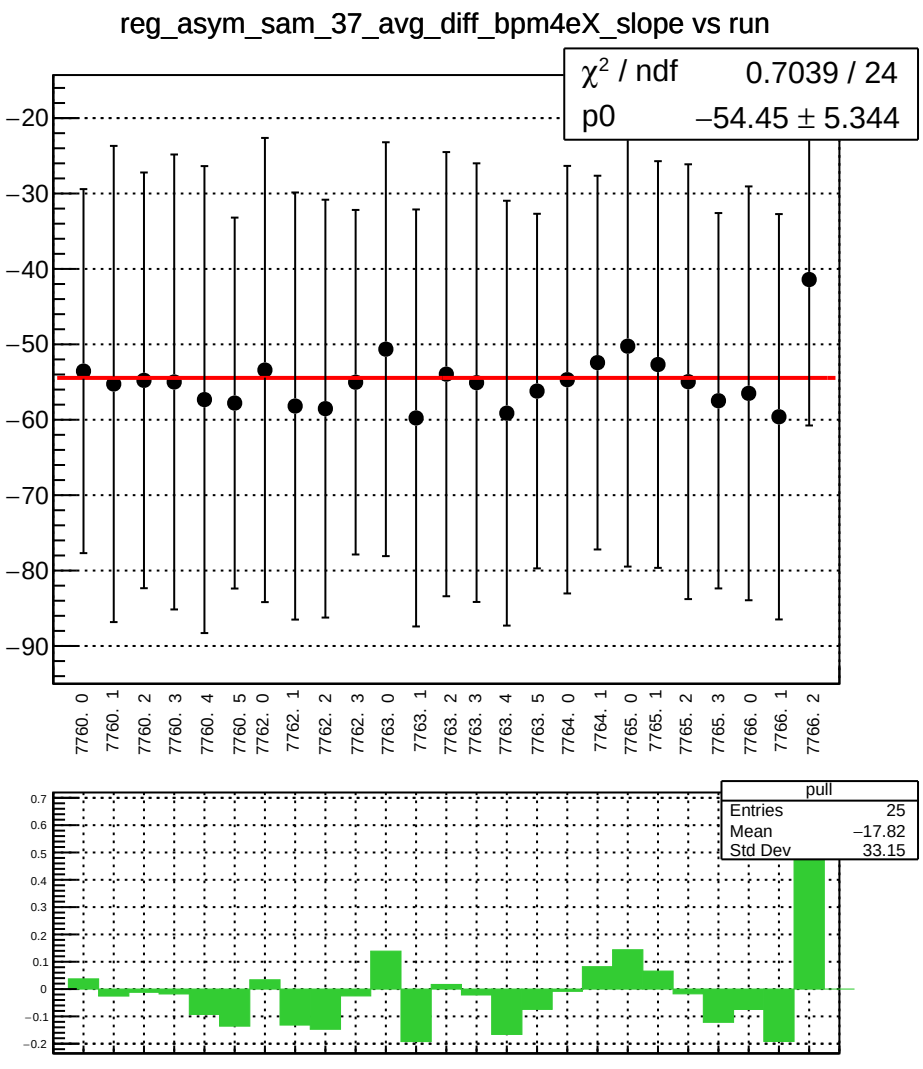

pull1D
Entries 25
Mean 0.00145
Std Dev 0.261
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

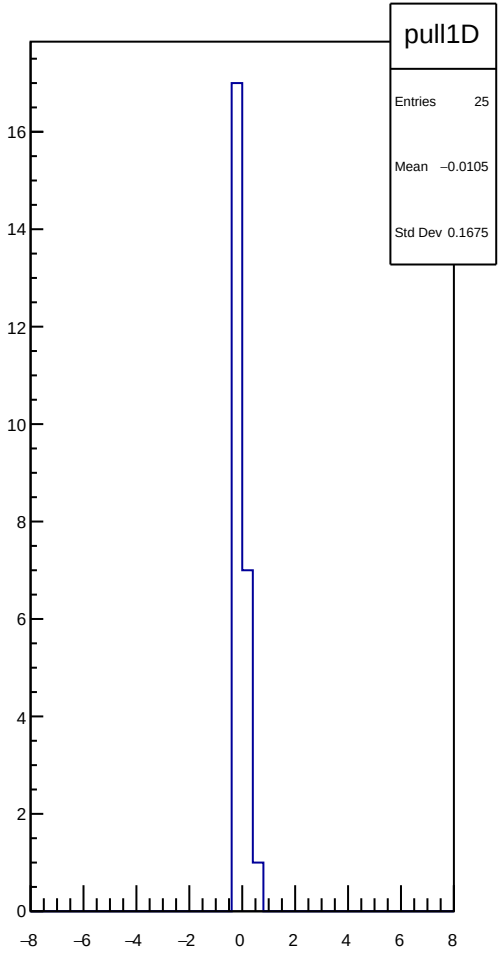

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 1.495 / 24
p0 0.4416 ± 0.05004
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −279.6
Std Dev 291.2
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 25
Mean 0.003165
Std Dev 0.2445
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

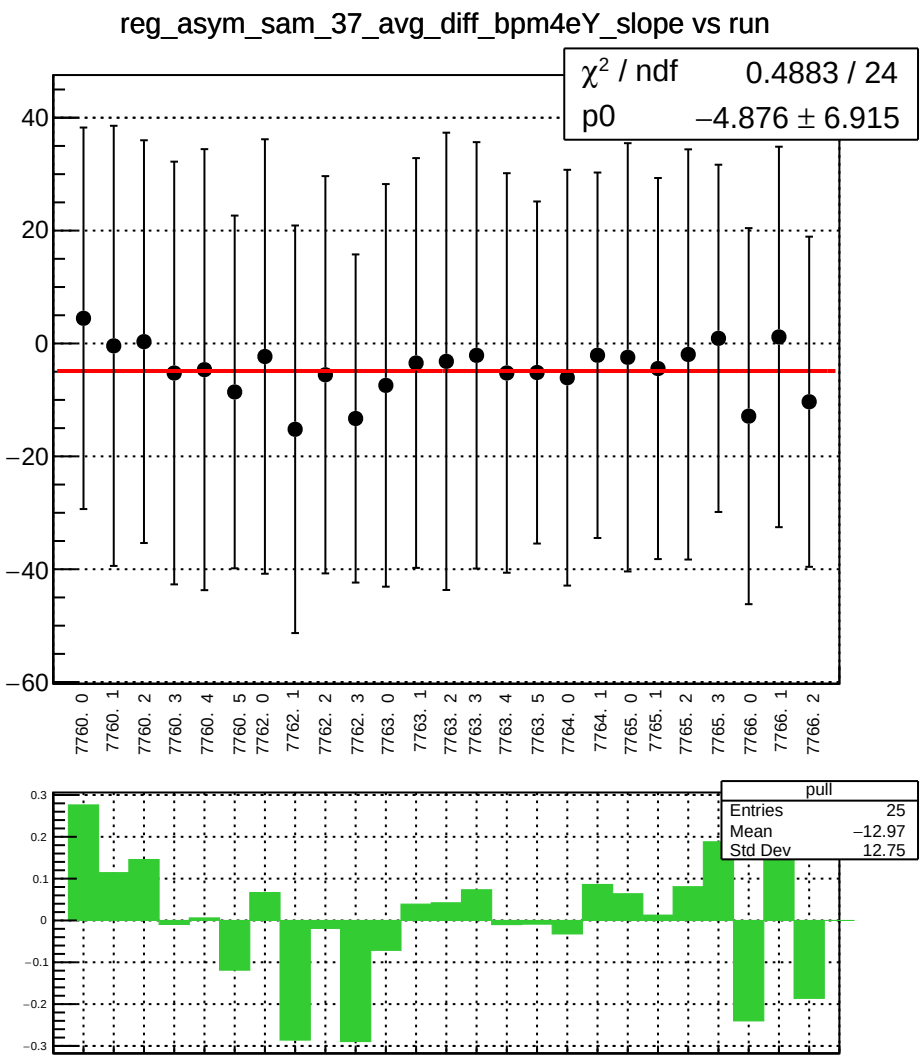

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 0.8387 / 24
p0 −34.88 ± 5.768
0
−10
−20
−30
−40
−50
−60
−70
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −64.81
Std Dev 77.29
0.4
0.2
0
−0.2
−0.4
−0.6

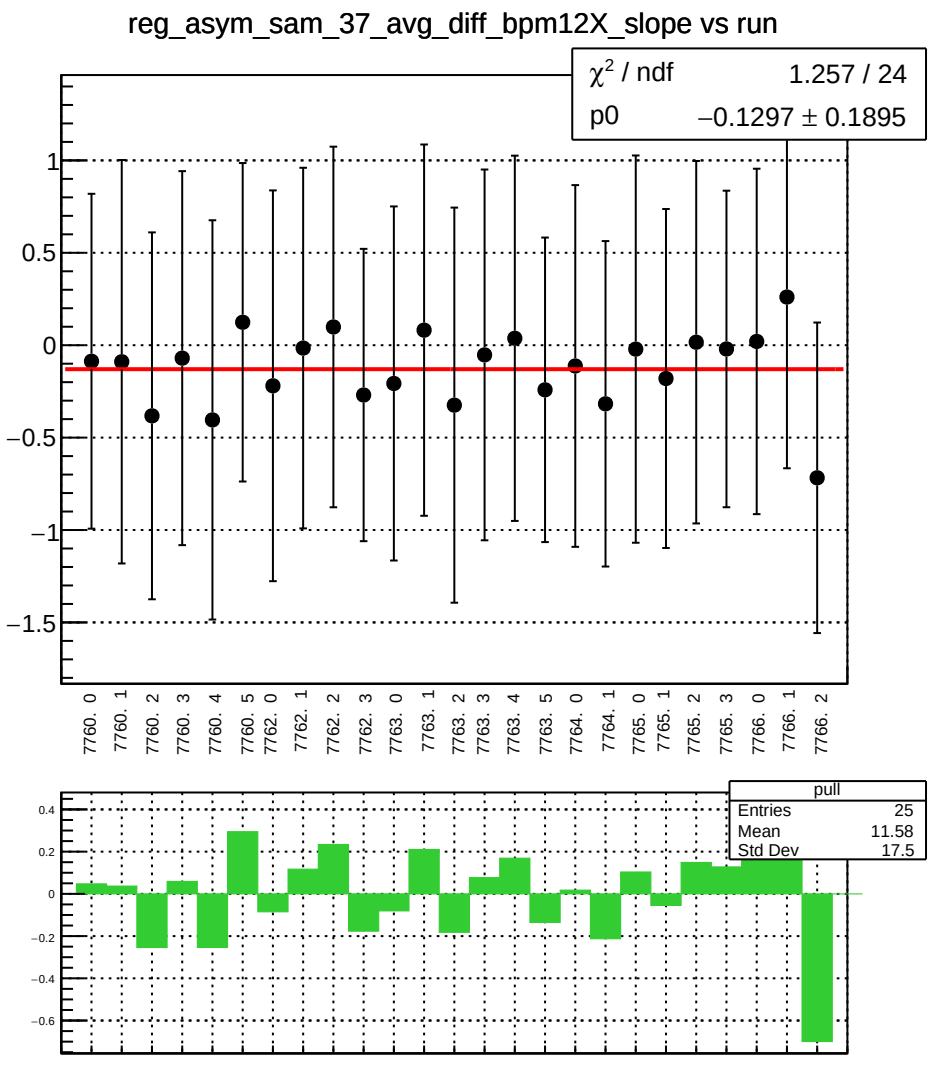

pull1D
Entries 25
Mean 0.0072
Std Dev 0.183
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

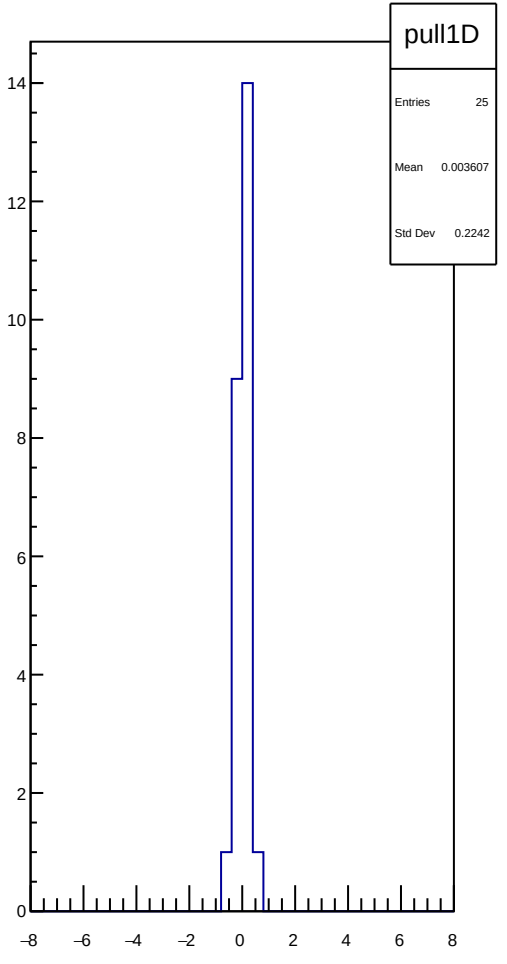

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.3823 / 24
p0 10.76 ± 6.138
50
40
30
20
10
0
−10
−20
−30
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 12.32
Std Dev 21.99
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 25
Mean −0.003682
Std Dev 0.1236
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

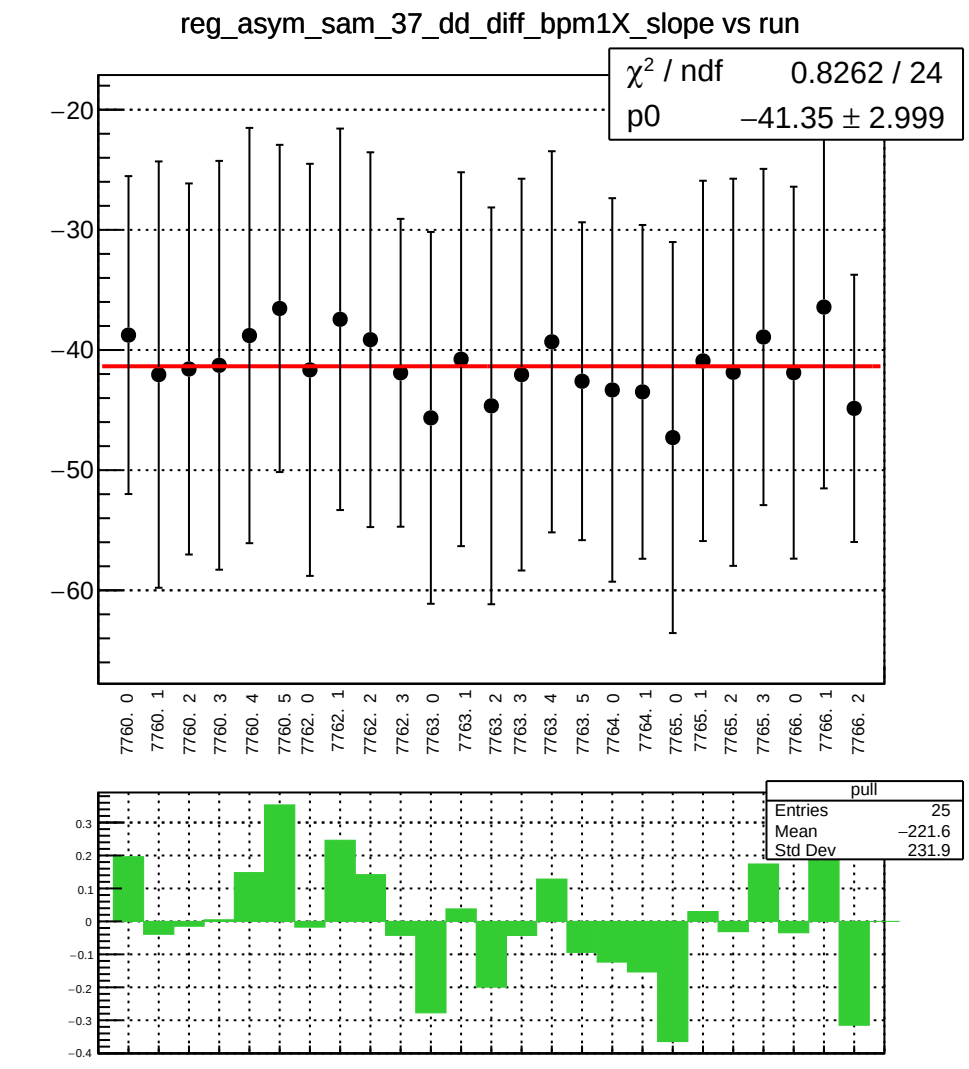

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 0.7039 / 24
p0 −54.45 ± 5.344
−20
−30
−40
−50
−60
−70
−80
−90
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −17.82
Std Dev 33.15
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2

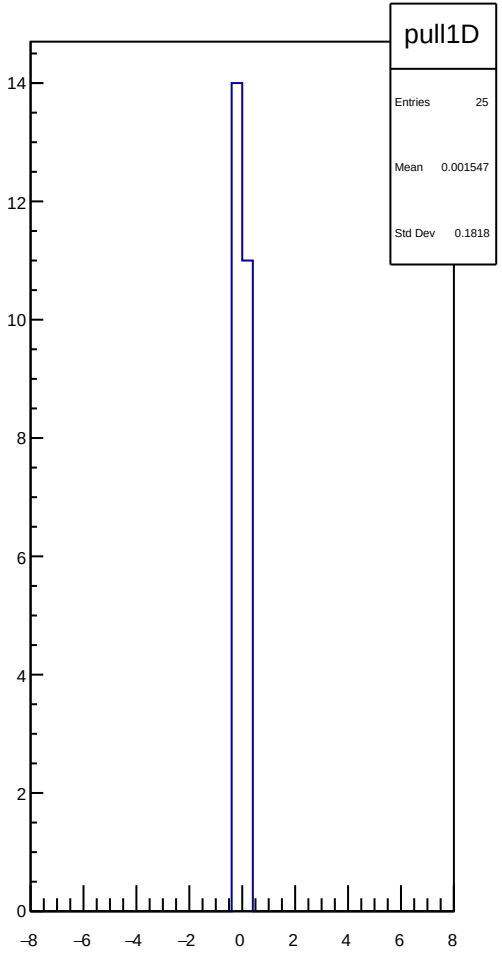

pull1D
Entries 25
Mean −0.0105
Std Dev 0.1675
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

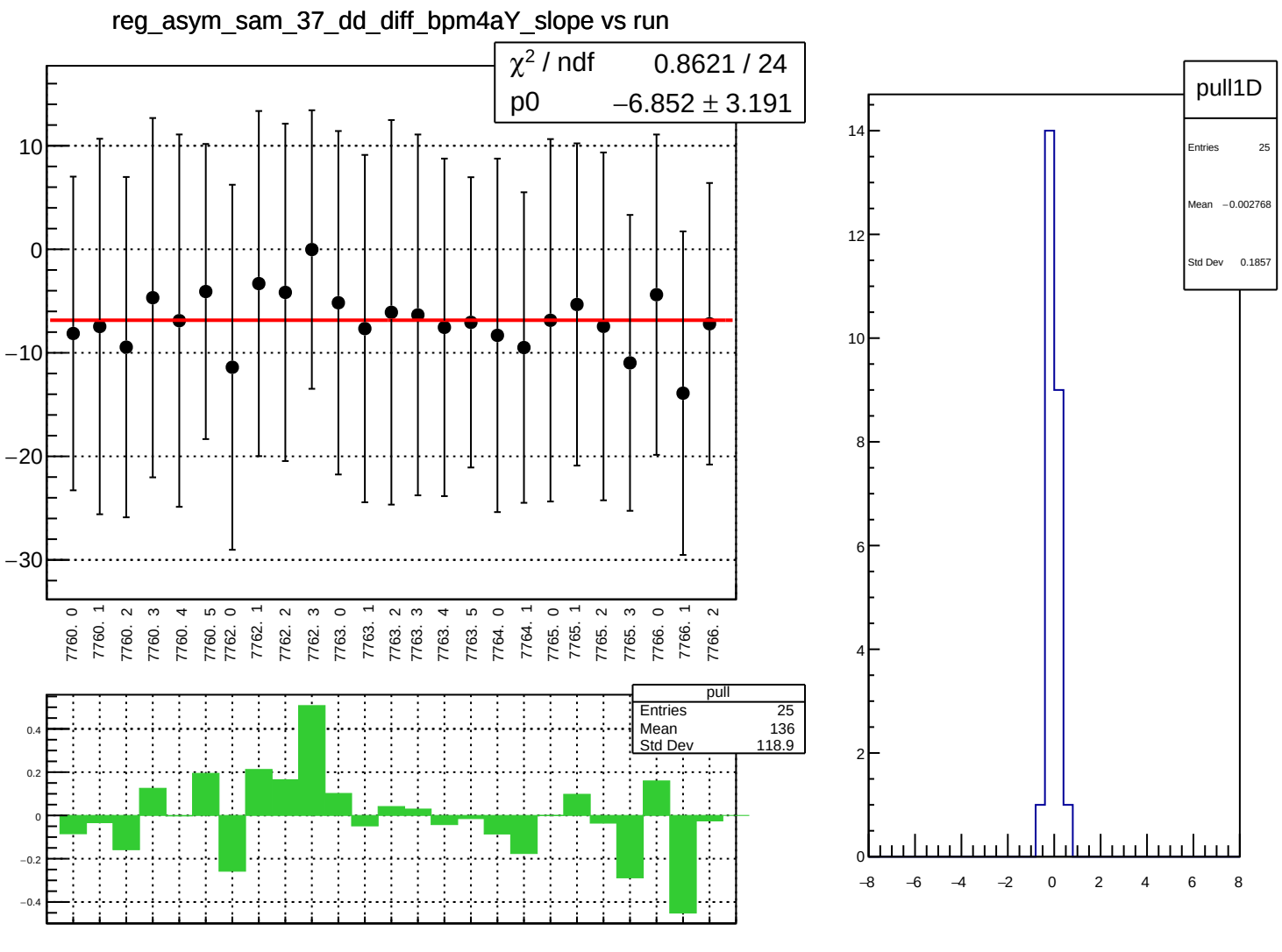

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.4883 / 24
p0 −4.876 ± 6.915
40
20
0
−20
−40
−60
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −12.97
Std Dev 12.75
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 25
Mean 0.004099
Std Dev 0.1397
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

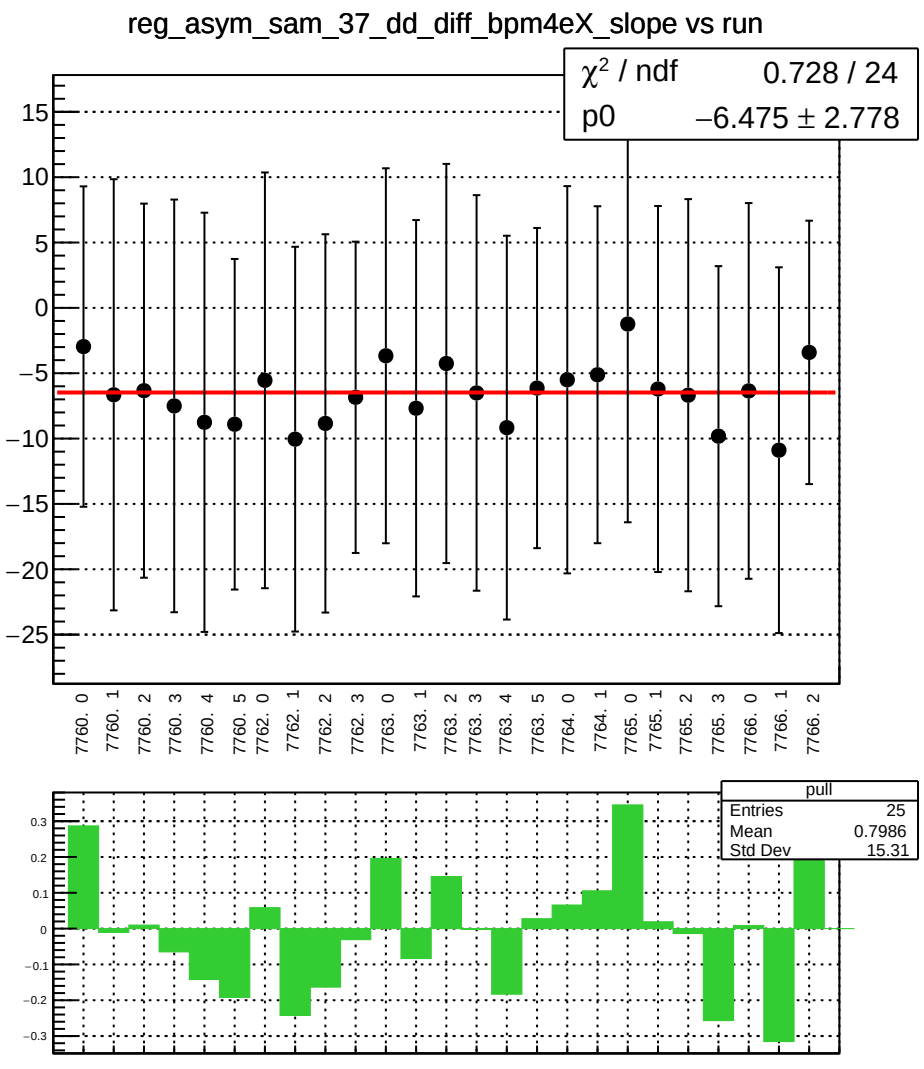

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 1.257 / 24
p0 −0.1297 ± 0.1895
1
0.5
0
−0.5
−1
−1.5
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 11.58
Std Dev 17.5
0.4
0.2
0
−0.2
−0.4
−0.6

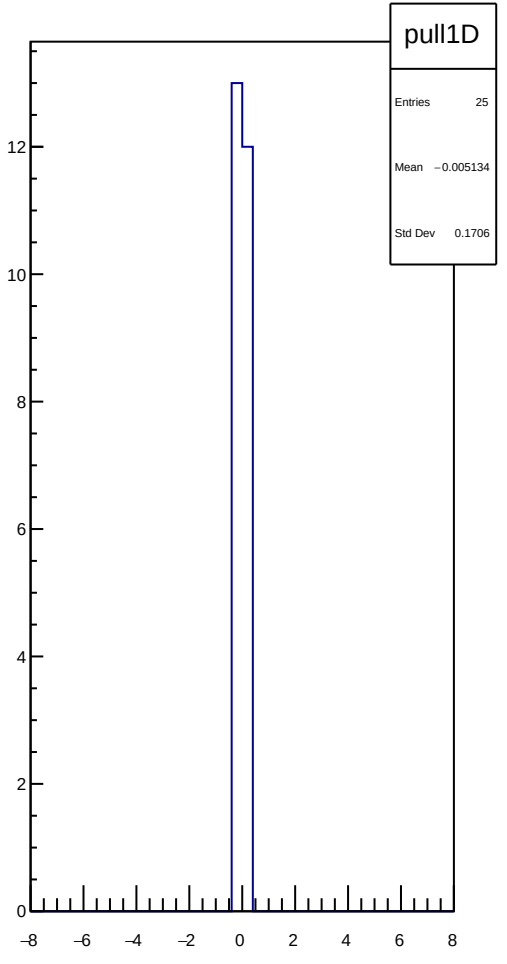

pull1D
Entries 25
Mean 0.003607
Std Dev 0.2242
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

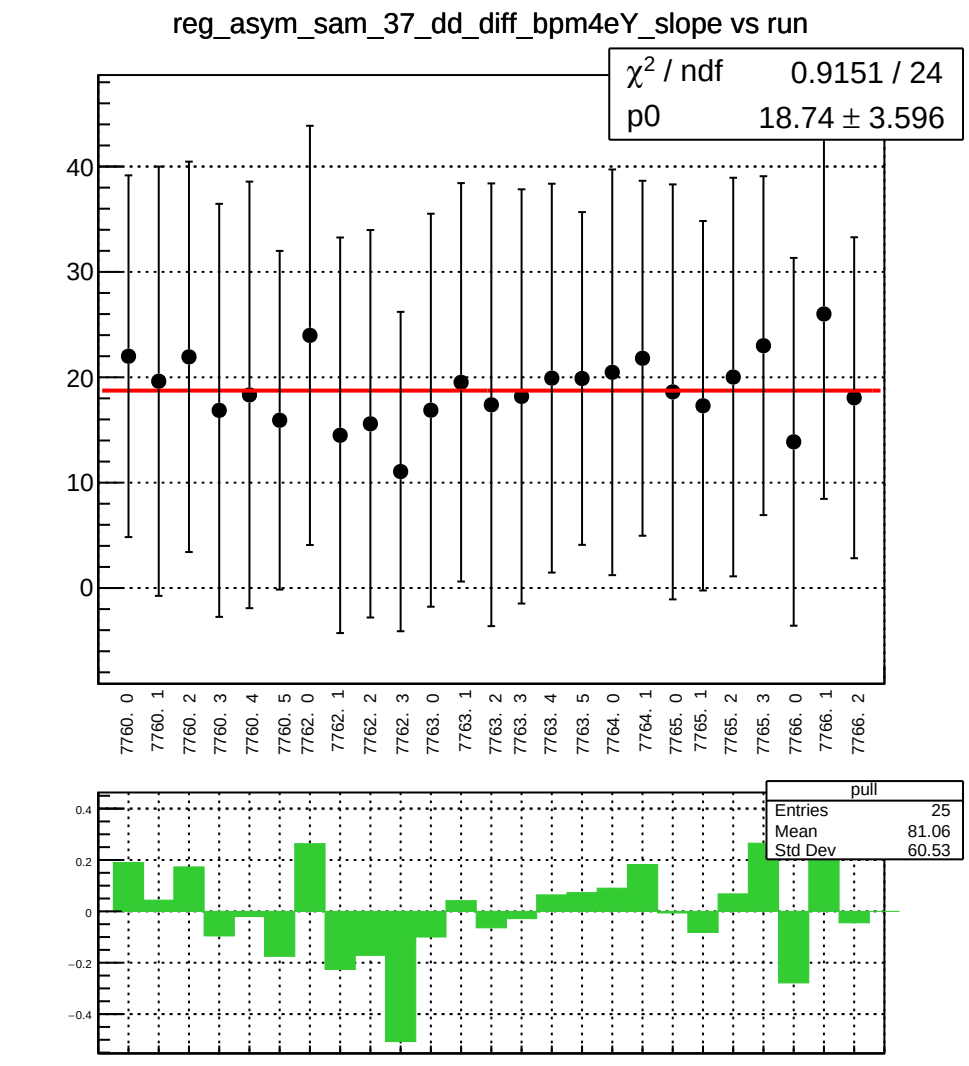

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 0.8262 / 24
p0 −41.35 ± 2.999
−20
−30
−40
−50
−60
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −221.6
Std Dev 231.9
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

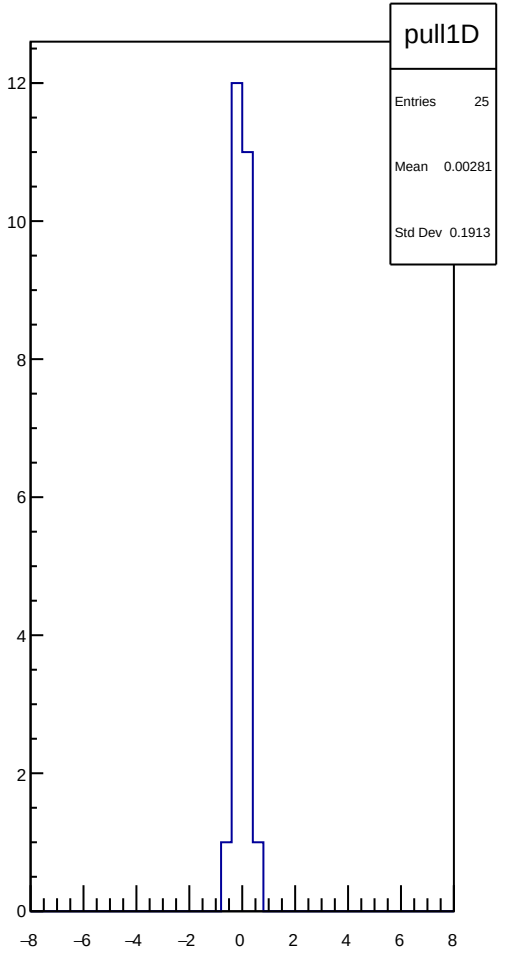

pull1D
Entries 25
Mean 0.001547
Std Dev 0.1818
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

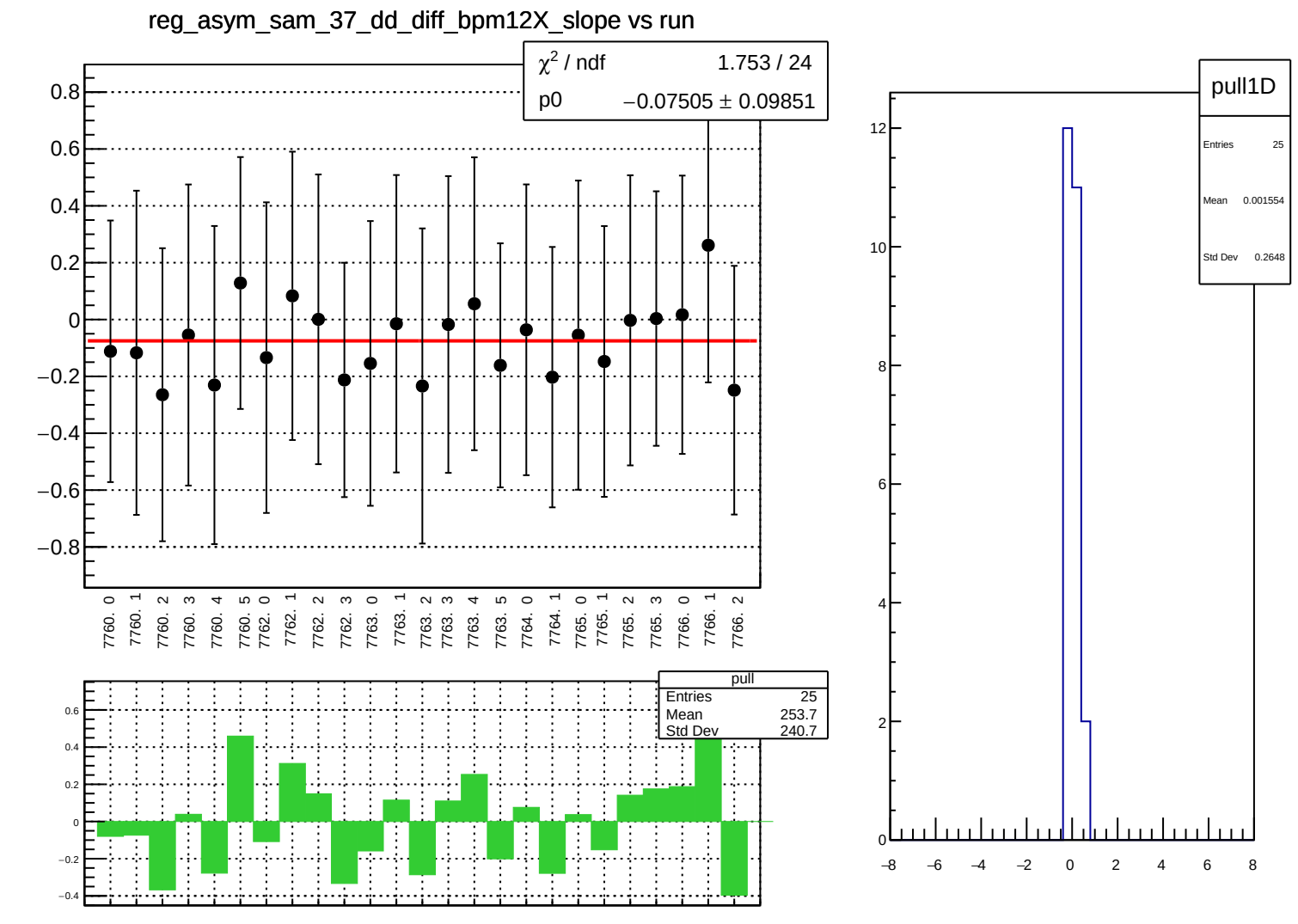

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.8621 / 24
p0 −6.852 ± 3.191
10
0
−10
−20
−30
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 136
Std Dev 118.9
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 25
Mean −0.002768
Std Dev 0.1857
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

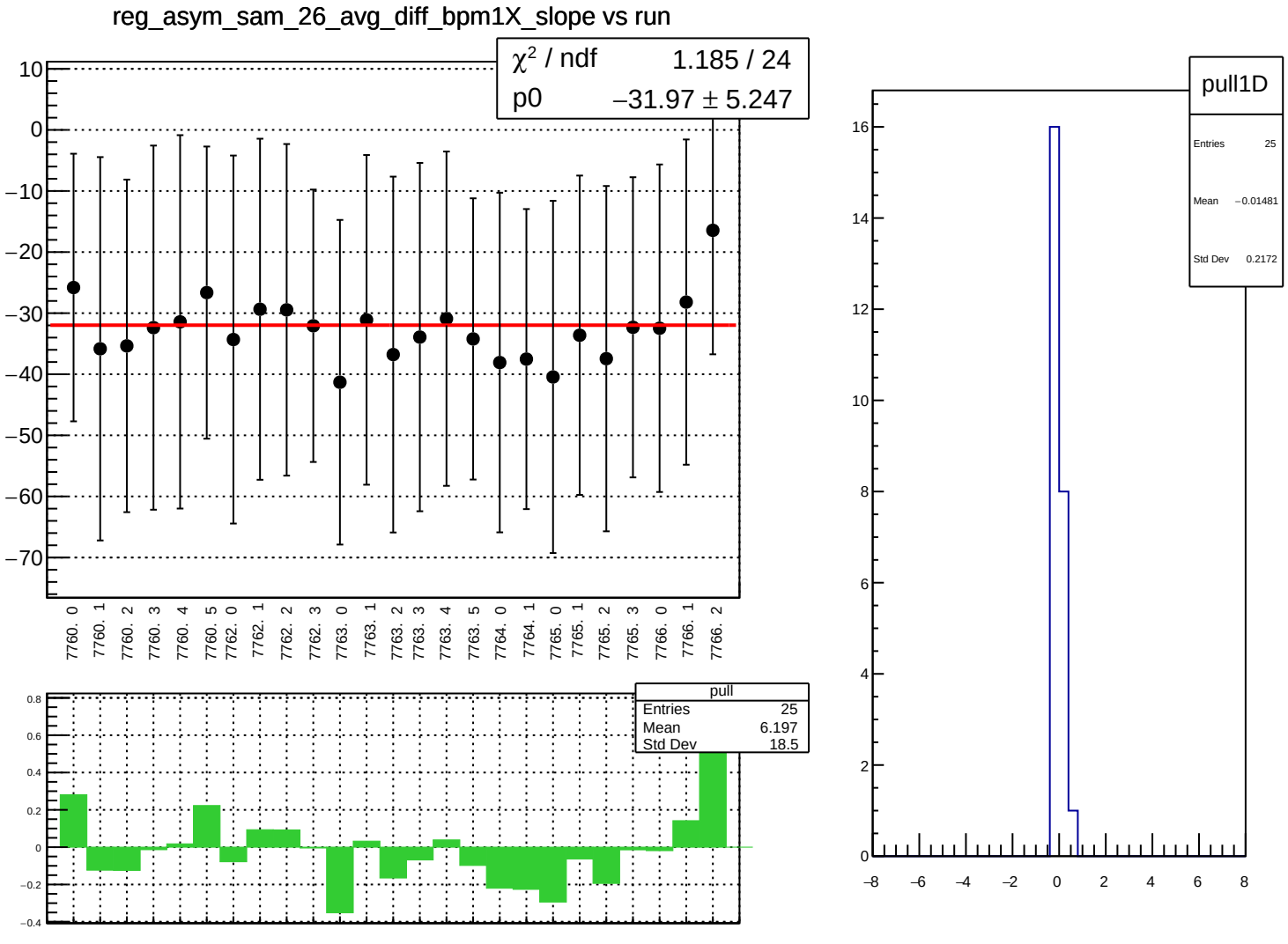

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.728 / 24
p0 −6.475 ± 2.778
15
10
5
0
−5
−10
−15
−20
−25
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 0.7986
Std Dev 15.31
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

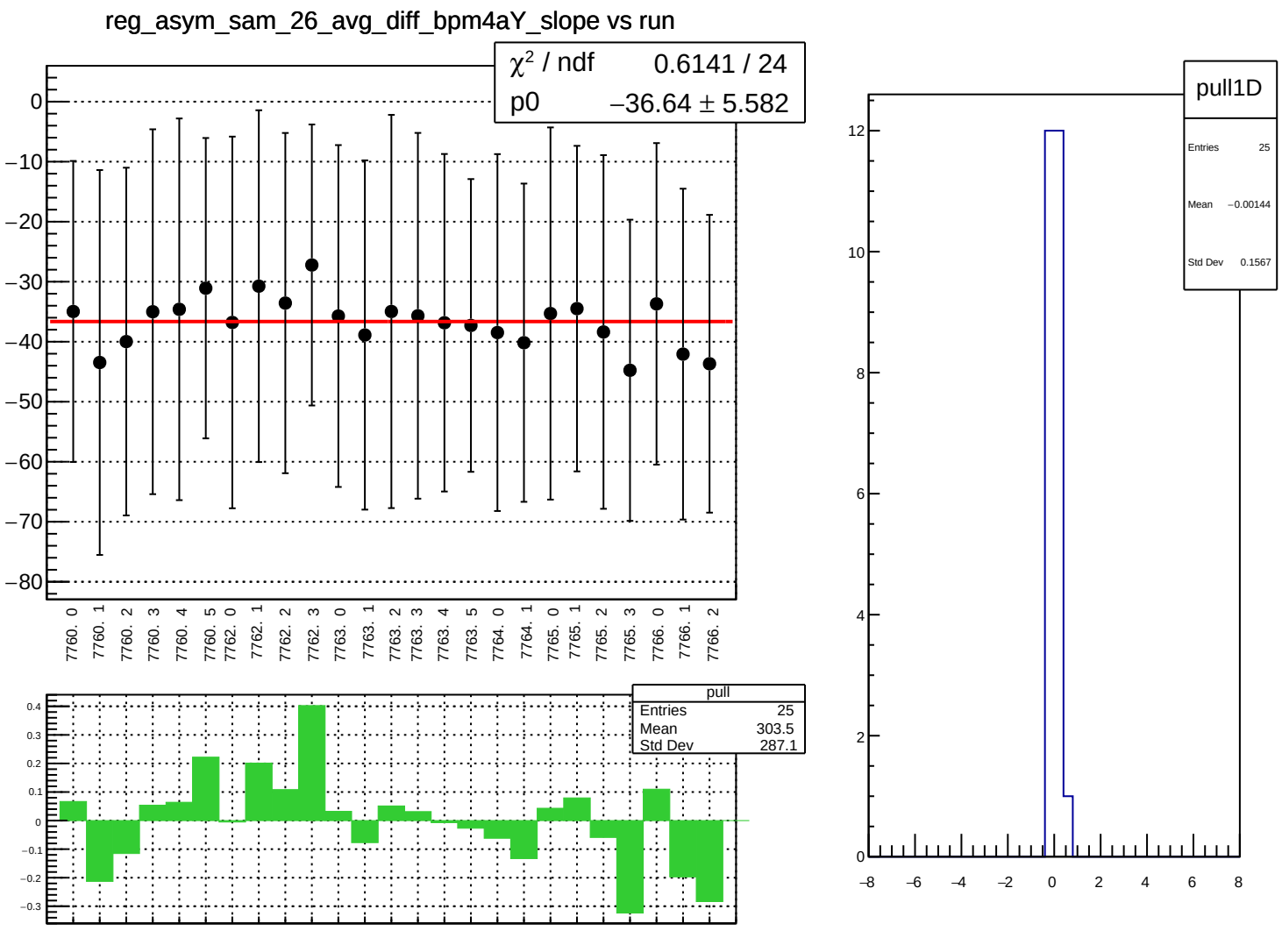

pull1D
Entries 25
Mean −0.005134
Std Dev 0.1706
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

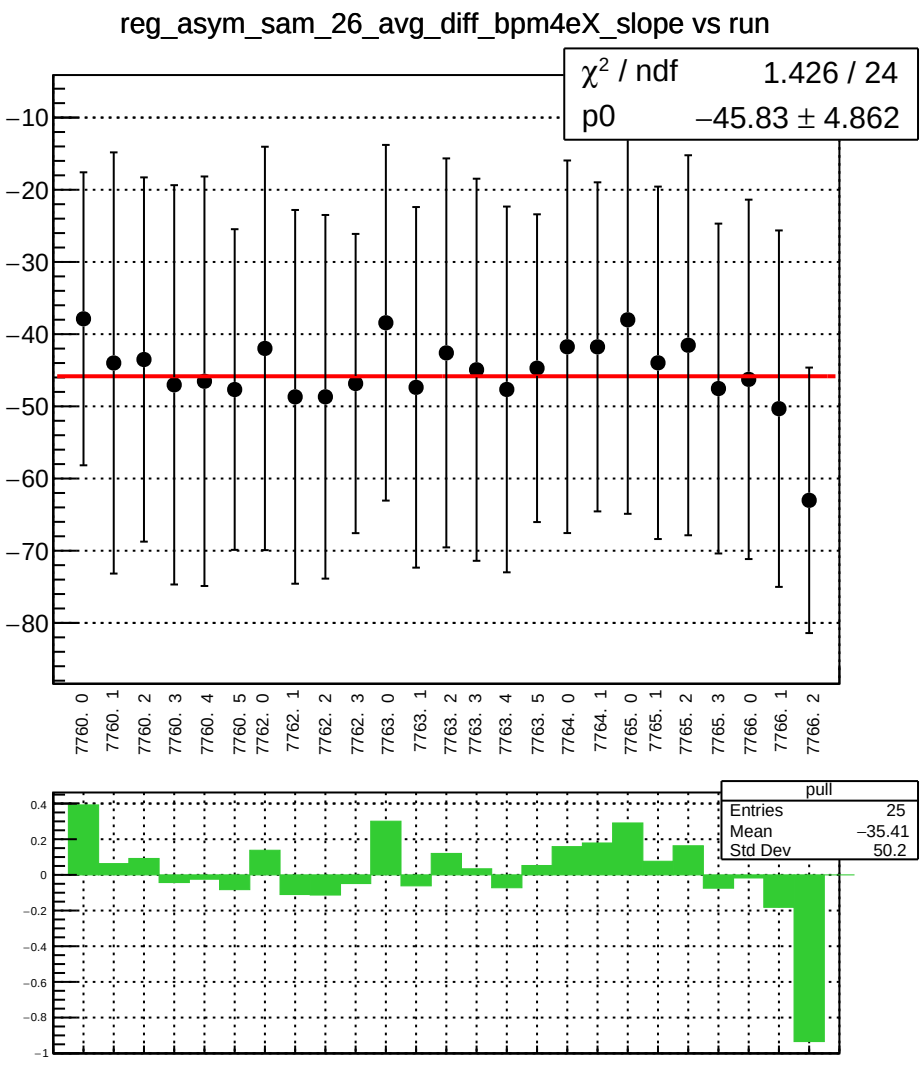

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.9151 / 24
p0 18.74 ± 3.596
40
30
20
10
0
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 81.06
Std Dev 60.53
0.4
0.2
0
−0.2
−0.4

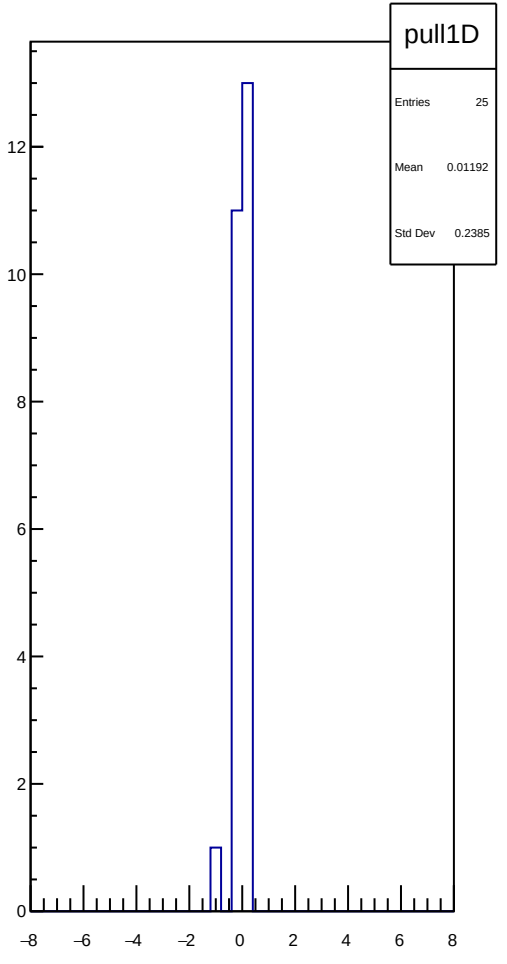

pull1D
Entries 25
Mean 0.00281
Std Dev 0.1913
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

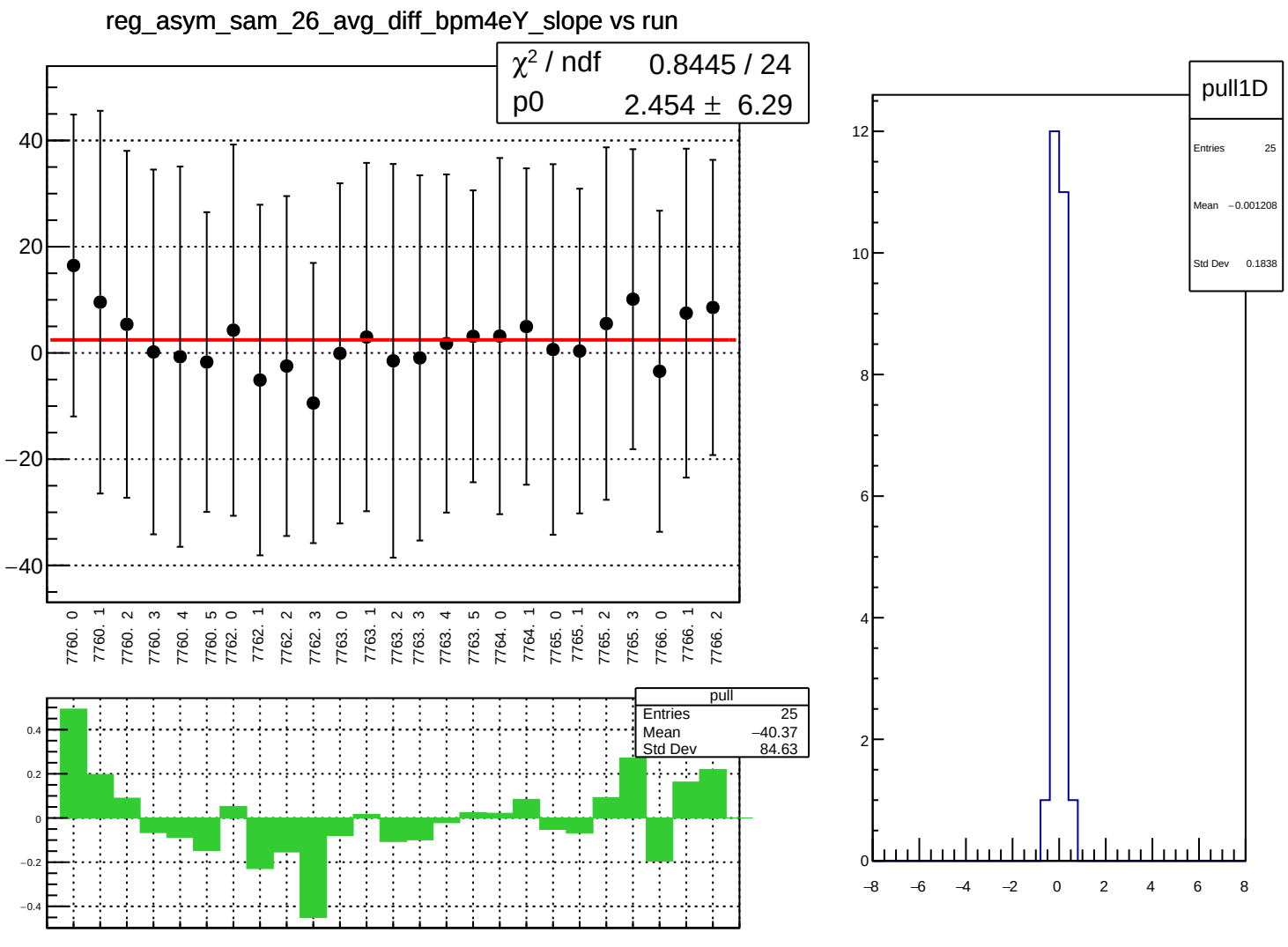

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 1.753 / 24
p0 −0.07505 ± 0.09851
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 253.7
Std Dev 240.7
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 25
Mean 0.001554
Std Dev 0.2648
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

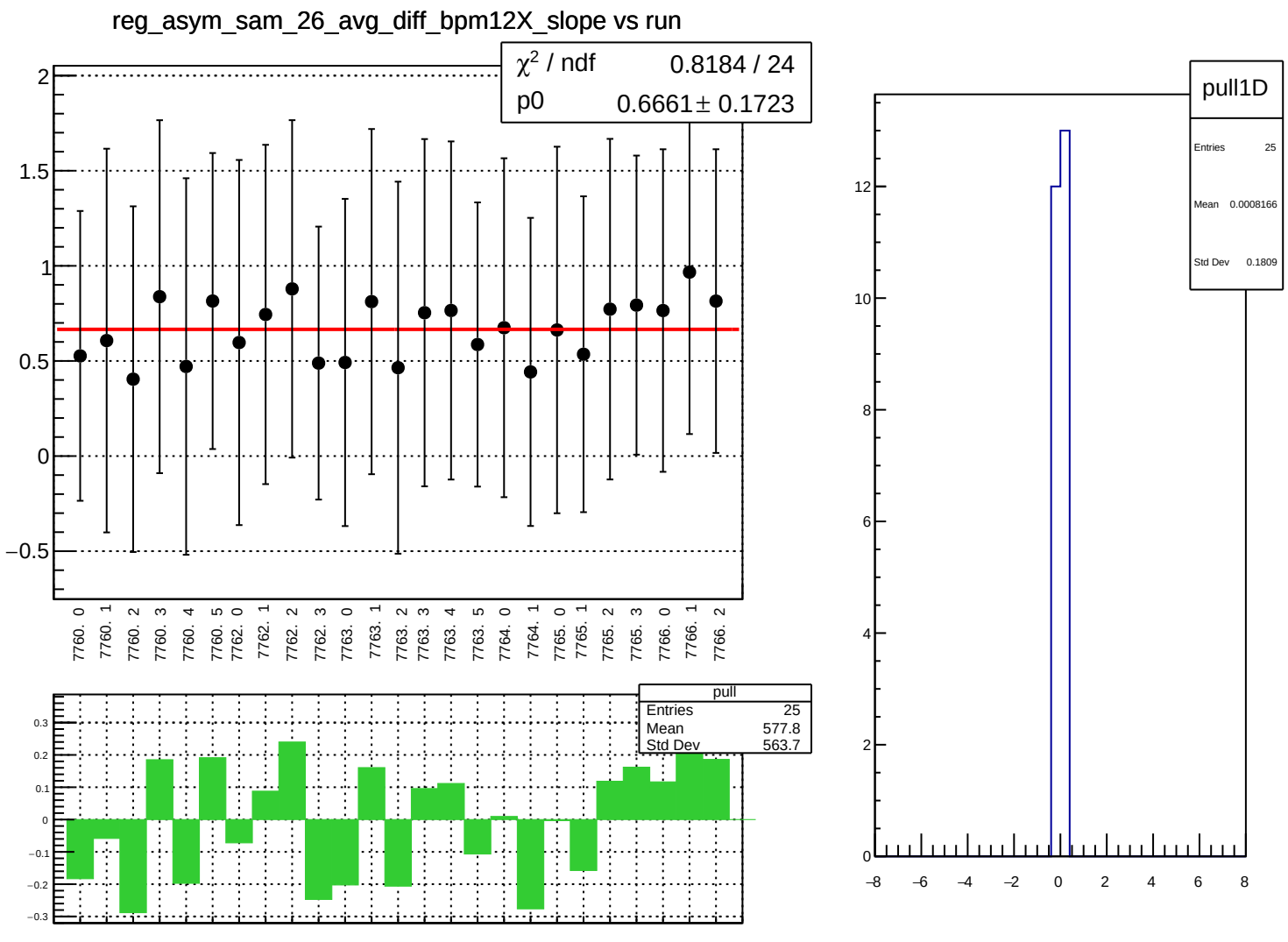

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 1.185 / 24
p0 −31.97 ± 5.247
10
0
−10
−20
−30
−40
−50
−60
−70
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 6.197
Std Dev 18.5
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 25
Mean −0.01481
Std Dev 0.2172
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

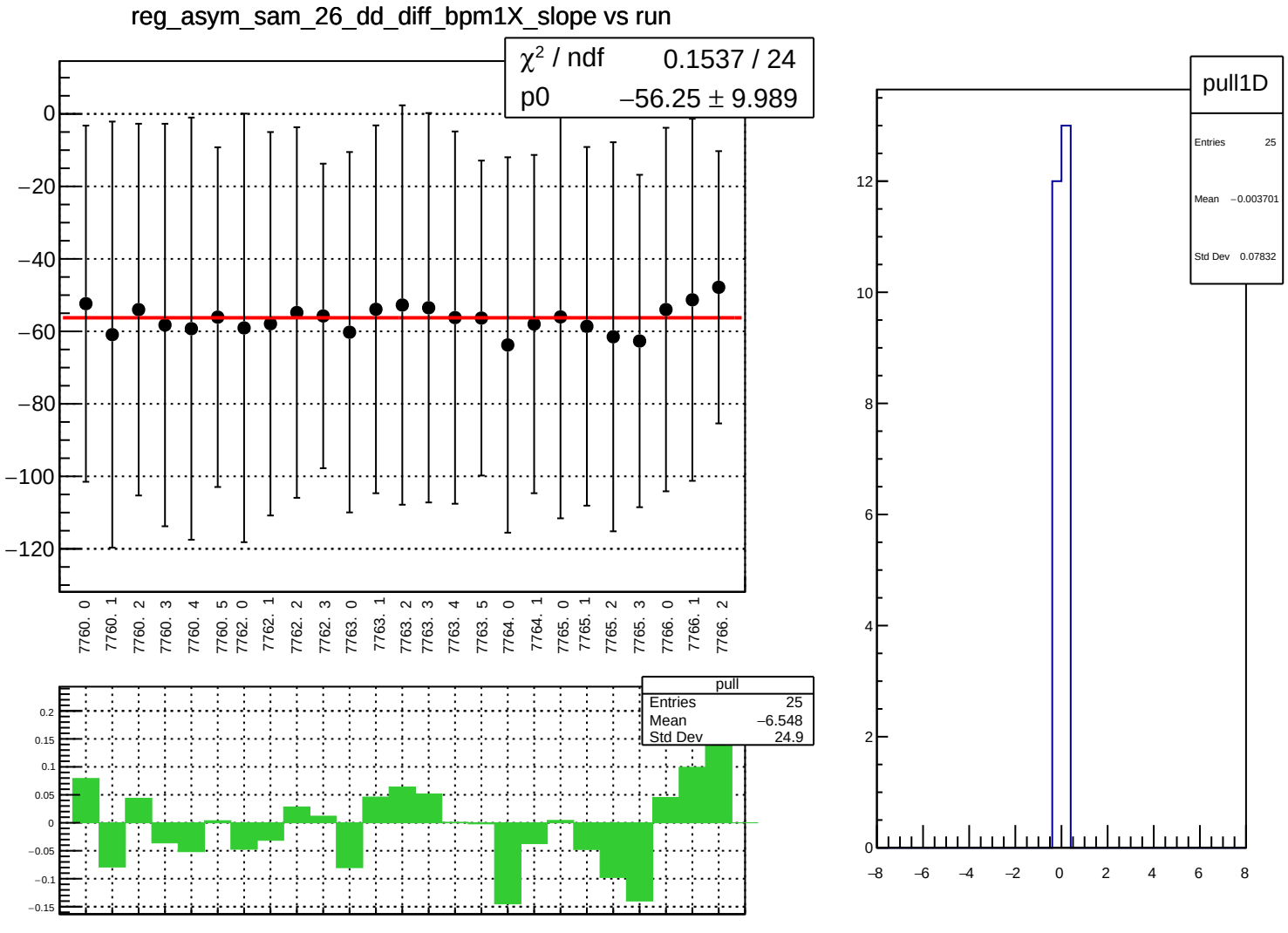

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.6141 / 24
p0 −36.64 ± 5.582
0
−10
−20
−30
−40
−50
−60
−70
−80
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 303.5
Std Dev 287.1
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 25
Mean −0.00144
Std Dev 0.1567
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

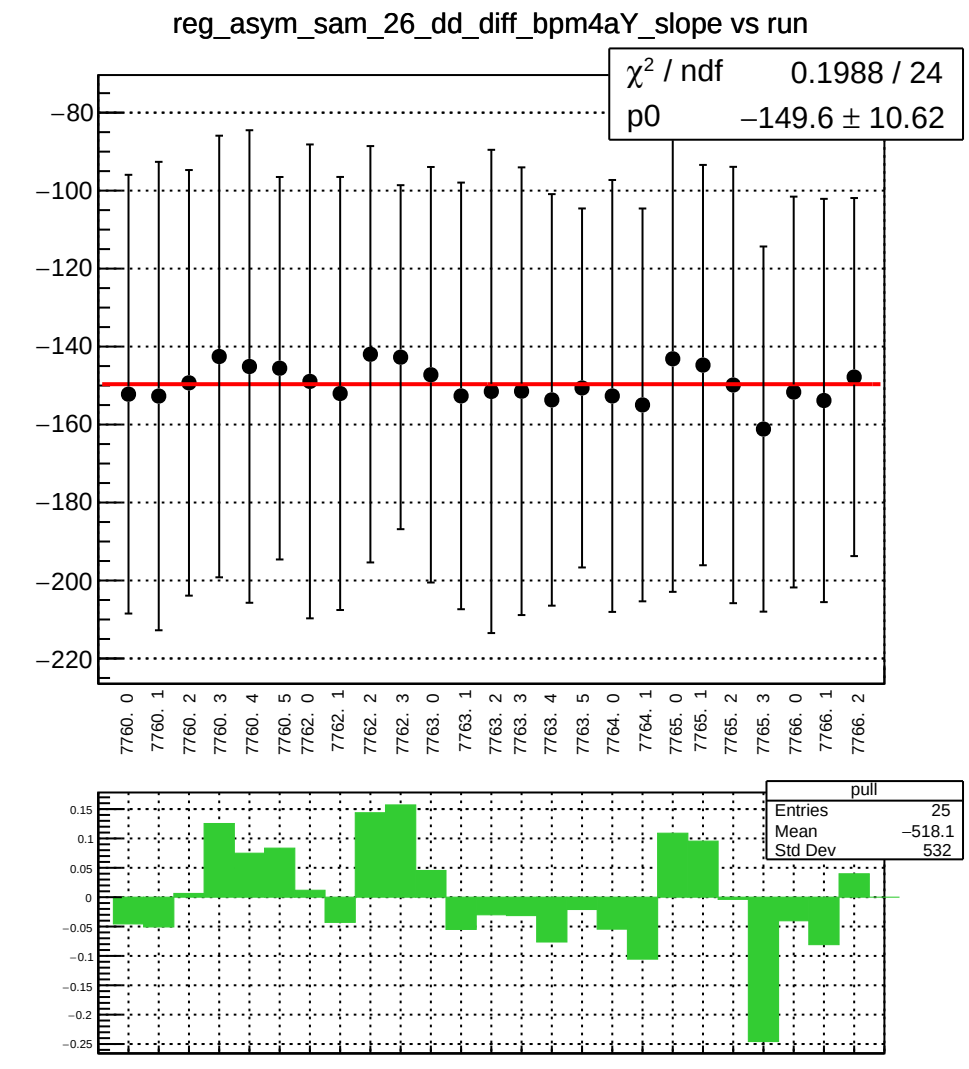

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.426 / 24
p0 −45.83 ± 4.862
−10
−20
−30
−40
−50
−60
−70
−80
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −35.41
Std Dev 50.2
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

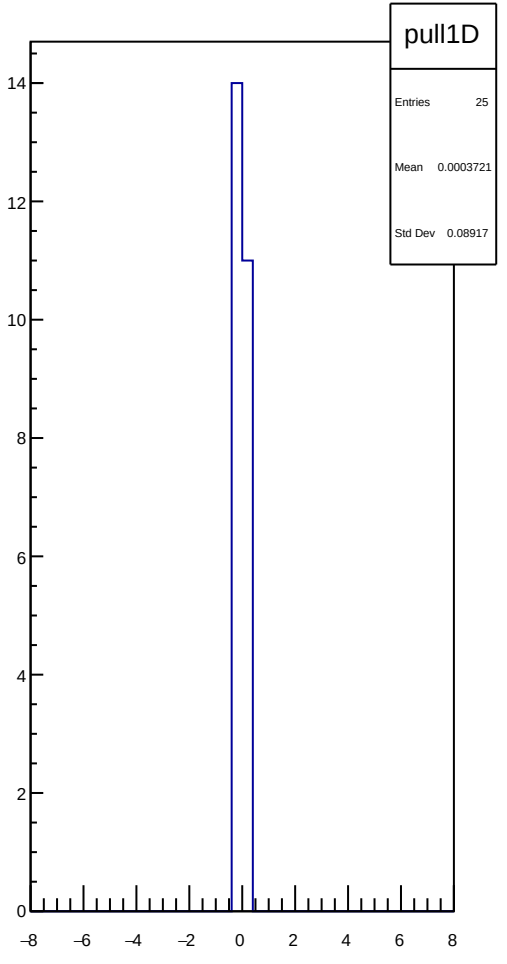

pull1D
Entries 25
Mean 0.01192
Std Dev 0.2385
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

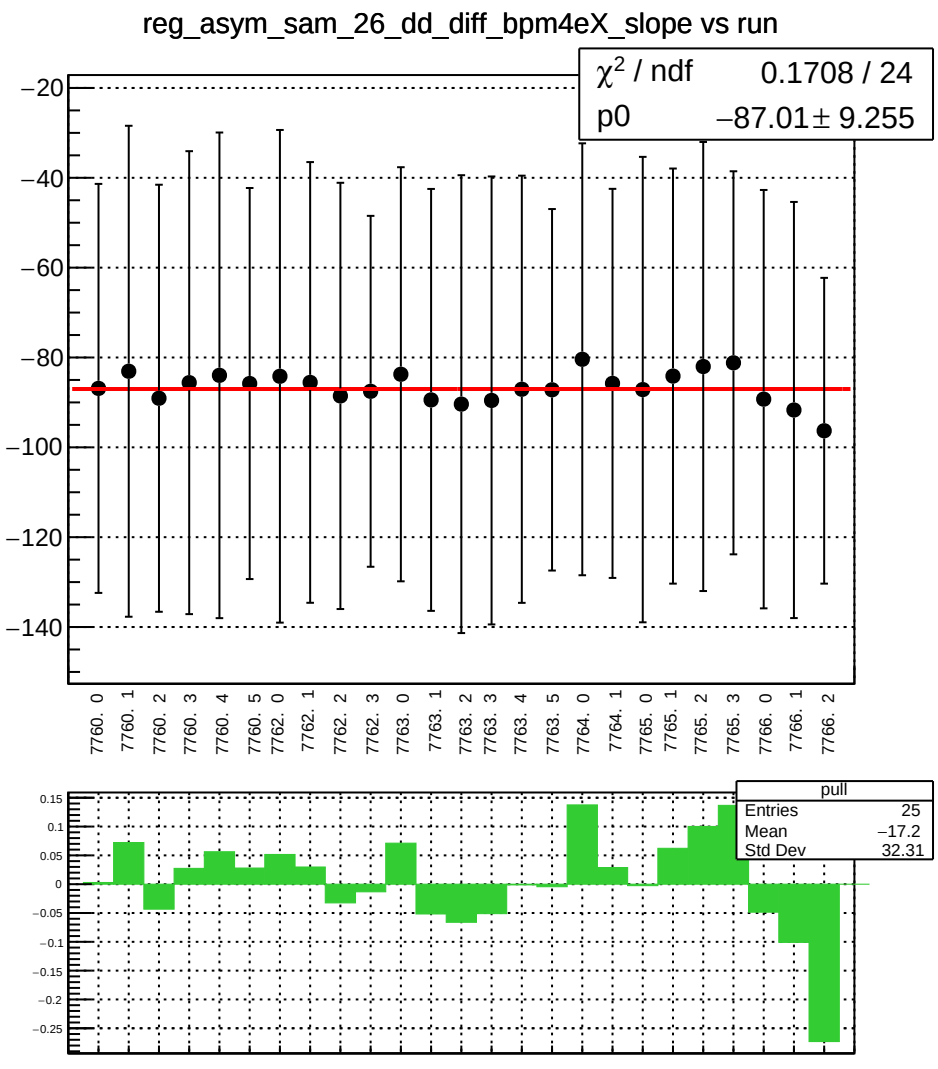

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.8445 / 24
p0 2.454 ± 6.29
40
20
0
−20
−40
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −40.37
Std Dev 84.63
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 25
Mean −0.001208
Std Dev 0.1838
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

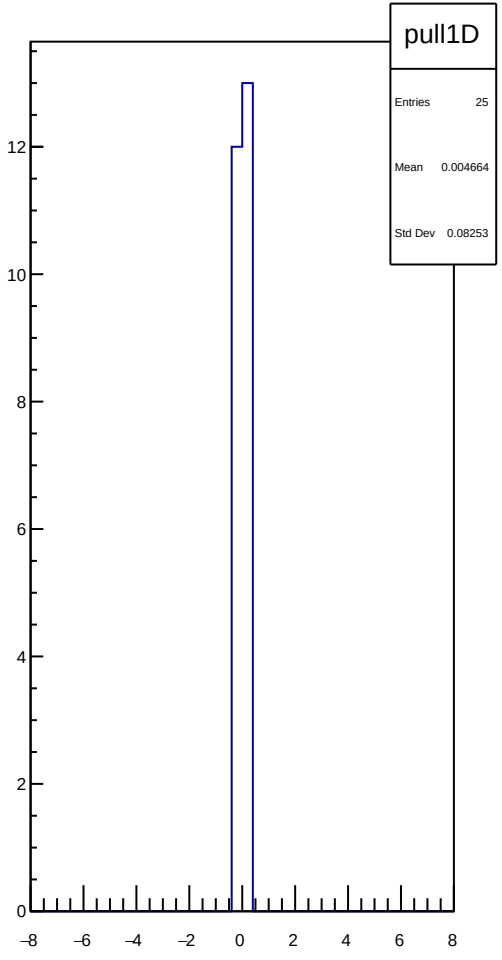

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 0.8184 / 24
p0 0.6661± 0.1723
2
1.5
1
0.5
0
−0.5
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 577.8
Std Dev 563.7
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 25
Mean 0.0008166
Std Dev 0.1809
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

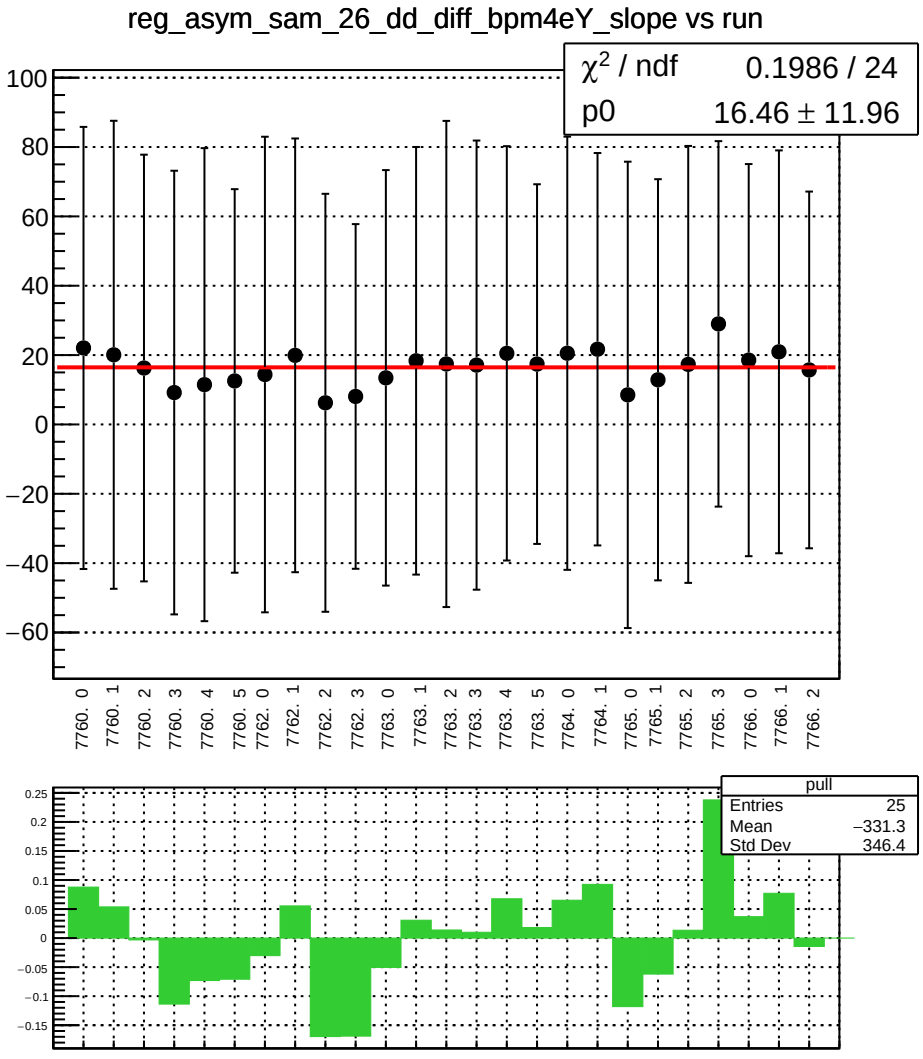

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 0.1537 / 24
p0 −56.25 ± 9.989
0
−20
−40
−60
−80
−100
−120
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −6.548
Std Dev 24.9
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull1D
Entries 25
Mean −0.003701
Std Dev 0.07832
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

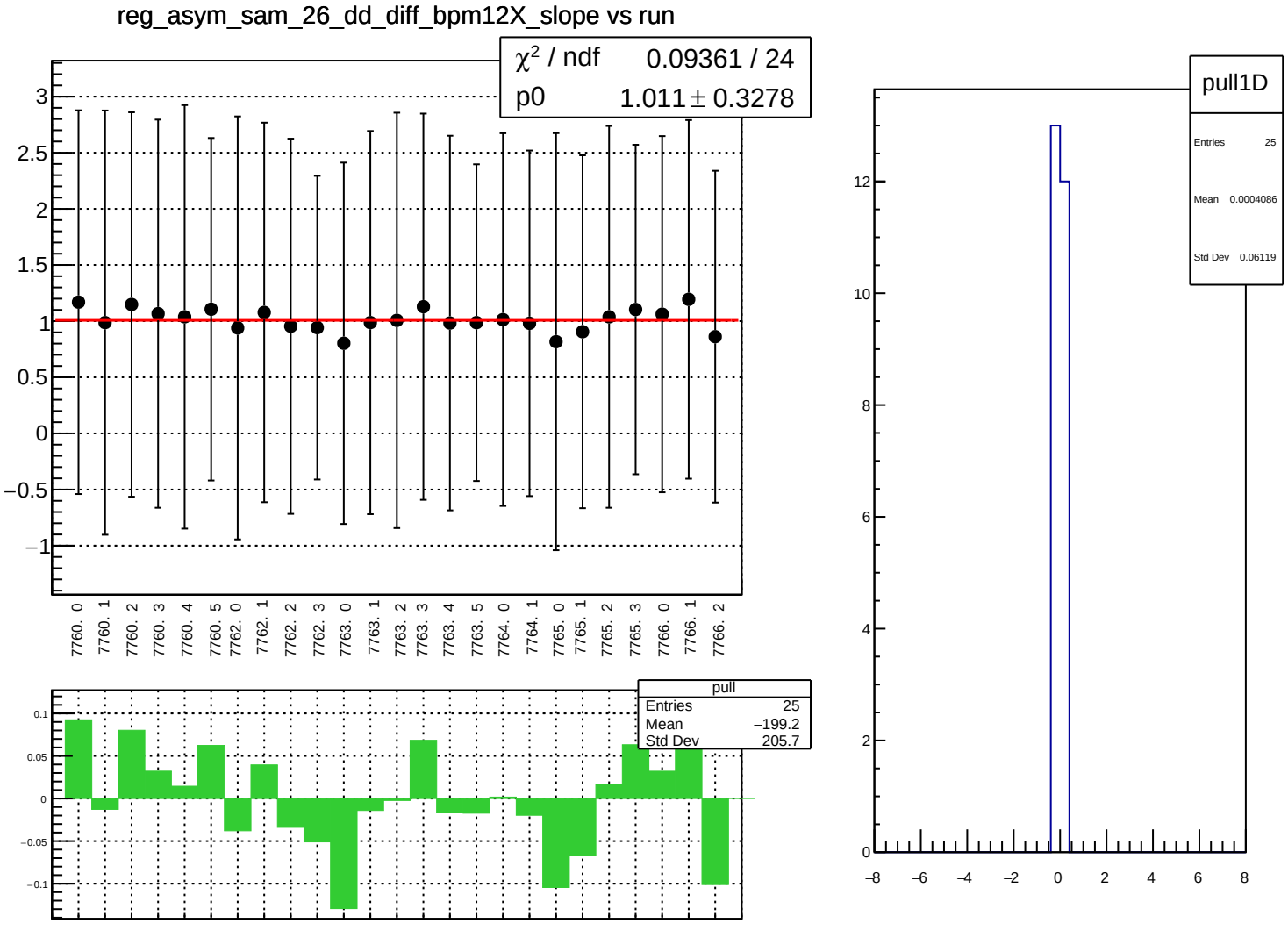

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.1988 / 24
p0 −149.6 ± 10.62
−80
−100
−120
−140
−160
−180
−200
−220
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −518.1
Std Dev 532
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
−0.25

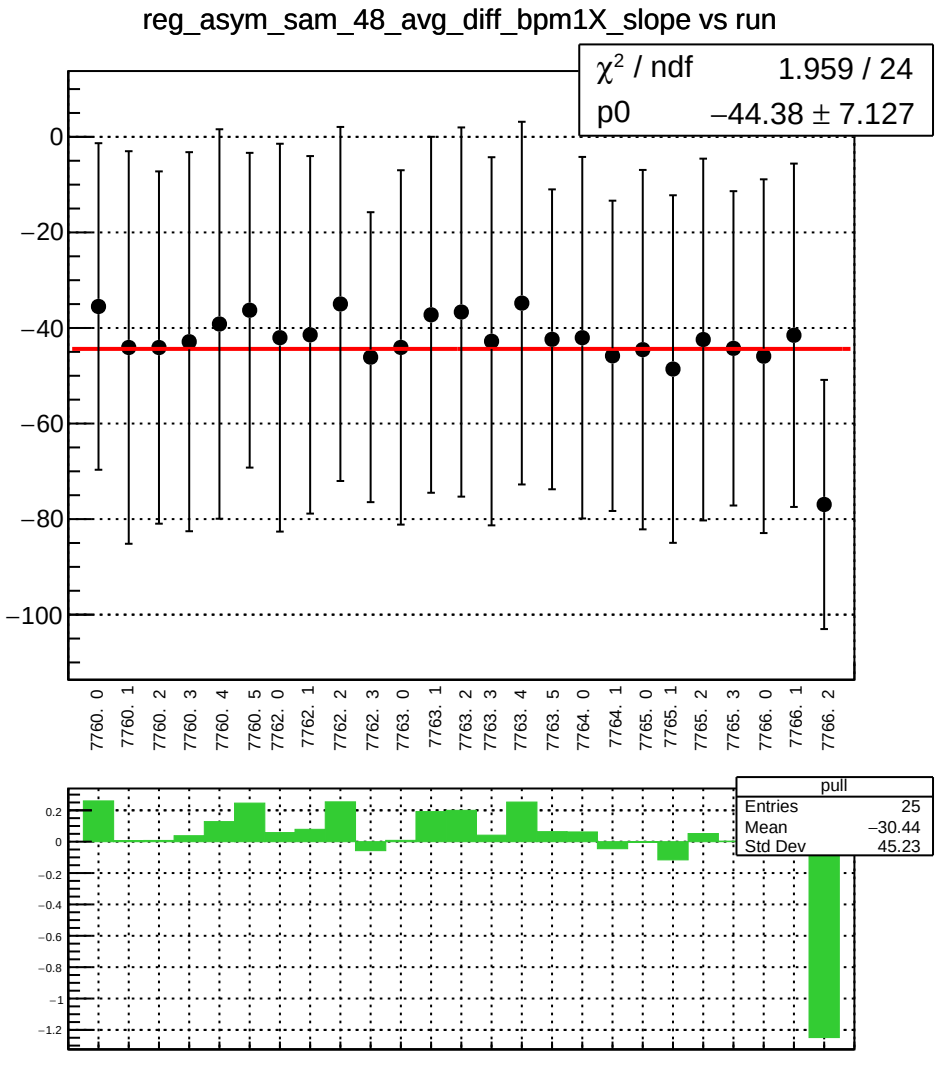

pull1D
Entries 25
Mean 0.0003721
Std Dev 0.08917
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

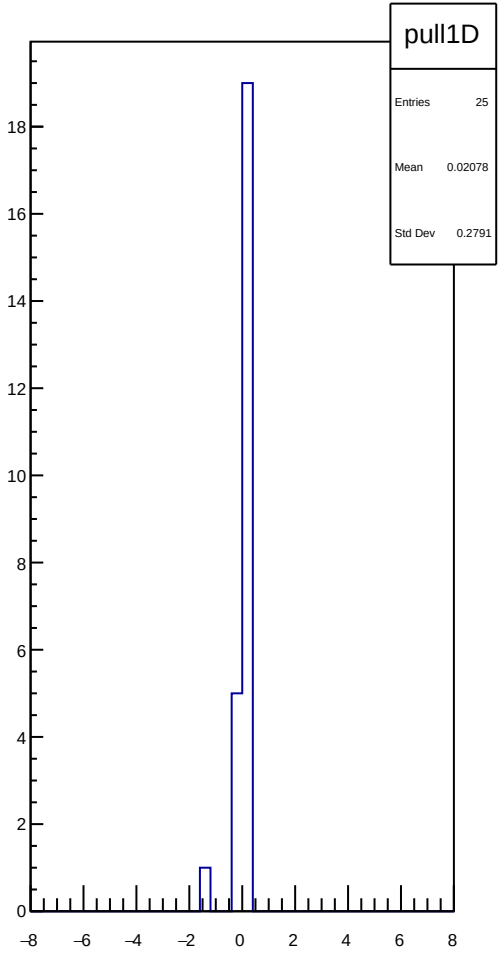

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.1708 / 24
p0 −87.01± 9.255
−20
−40
−60
−80
−100
−120
−140
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −17.2
Std Dev 32.31
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
−0.25

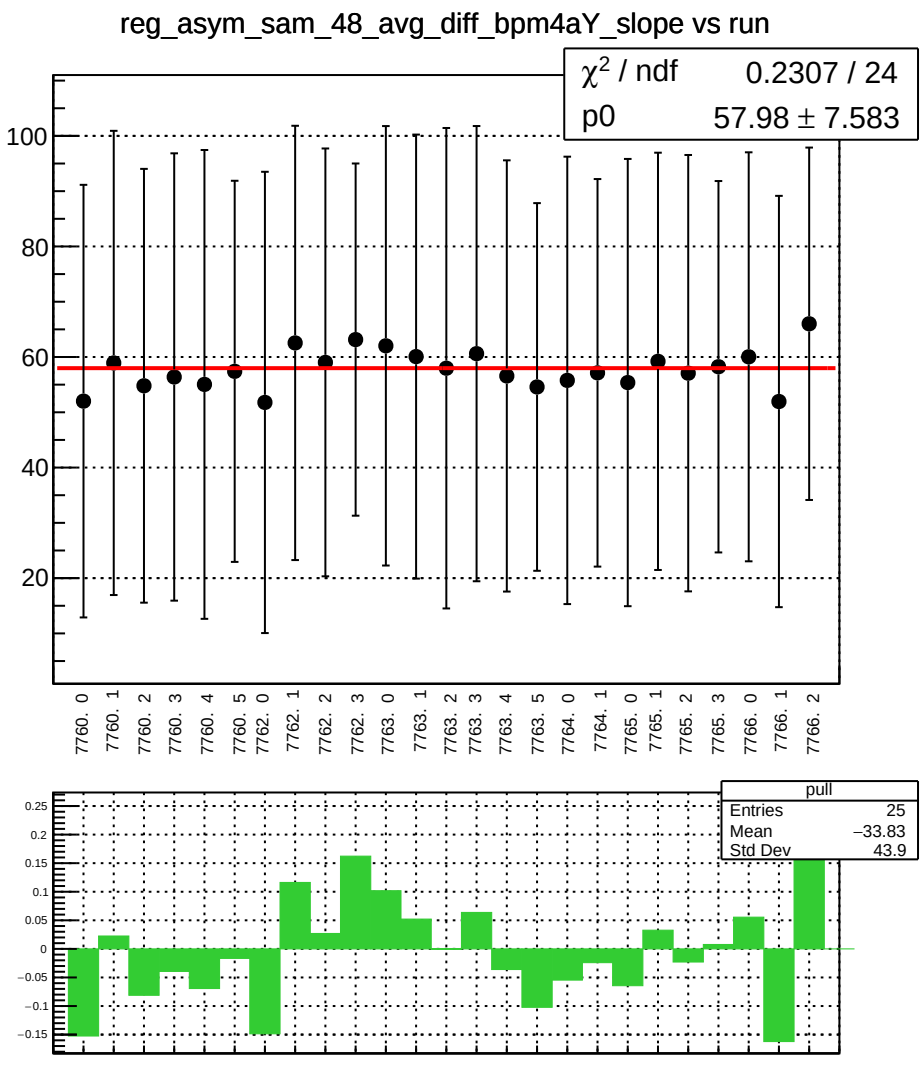

pull1D
Entries 25
Mean 0.004664
Std Dev 0.08253
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

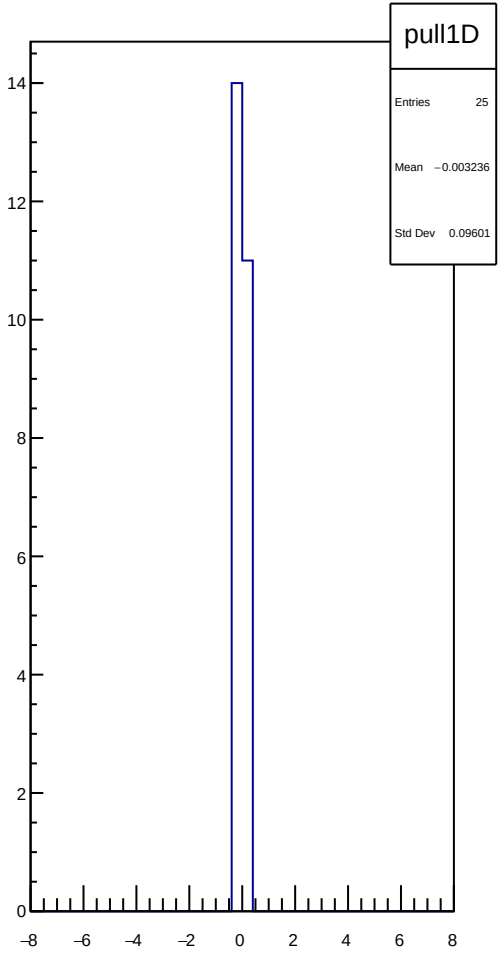

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.1986 / 24
p0 16.46 ± 11.96
100
80
60
40
20
0
−20
−40
−60
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −331.3
Std Dev 346.4
0.25
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull1D
Entries 25
Mean −0.0005496
Std Dev 0.08914
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

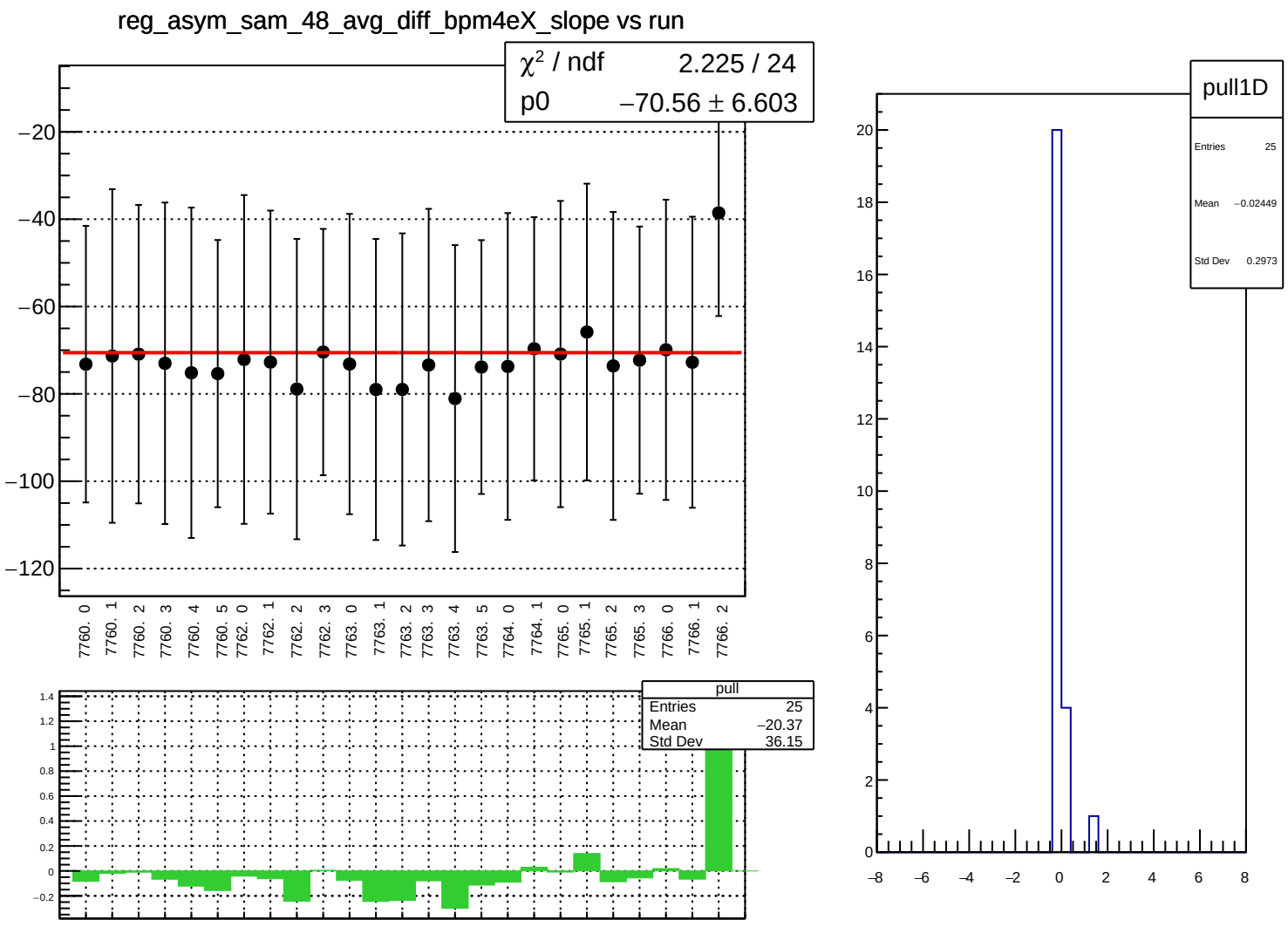

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 0.09361 / 24
p0 1.011 ± 0.3278
3
2.5
2
1.5
1
0.5
0
−0.5
−1
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −199.2
Std Dev 205.7
0.1
0.05
0
−0.05
−0.1
pull1D
Entries 25
Mean 0.0004086
Std Dev 0.06119
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

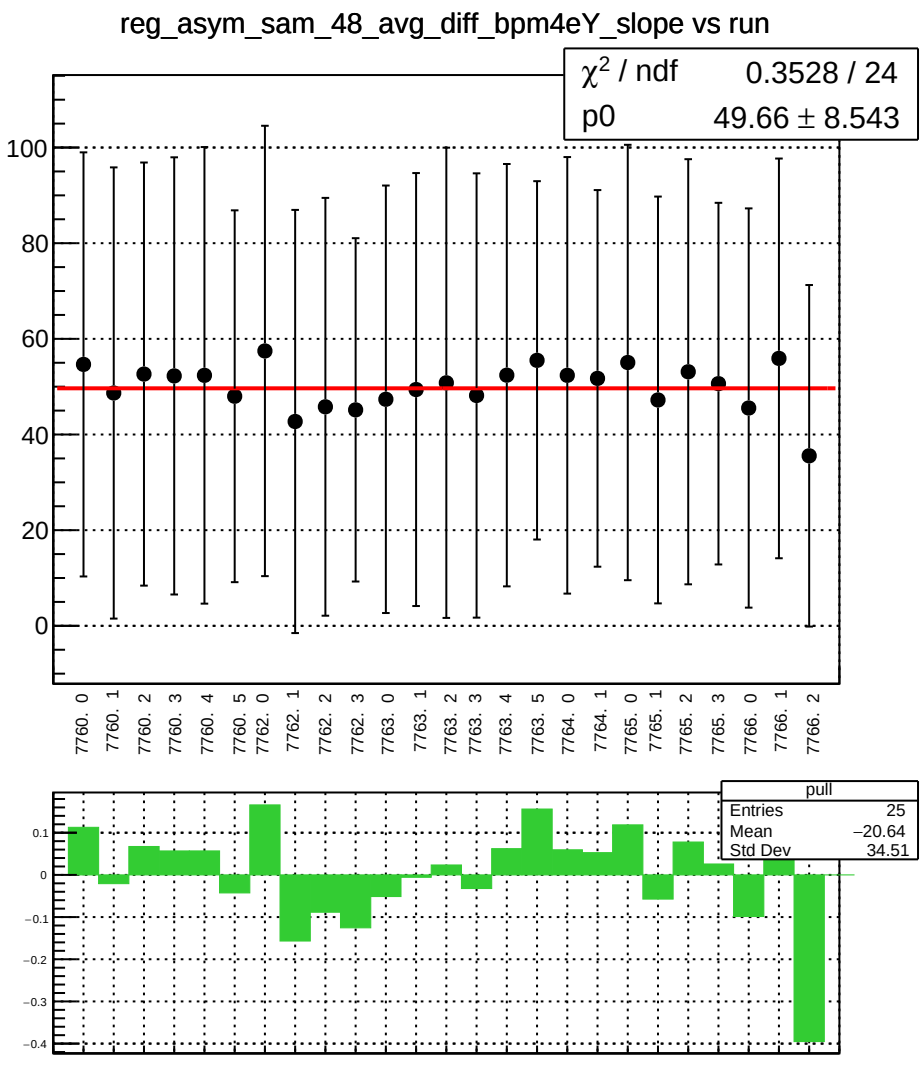

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 1.959 / 24
p0 −44.38 ± 7.127
0
−20
−40
−60
−80
−100
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −30.44
Std Dev 45.23
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

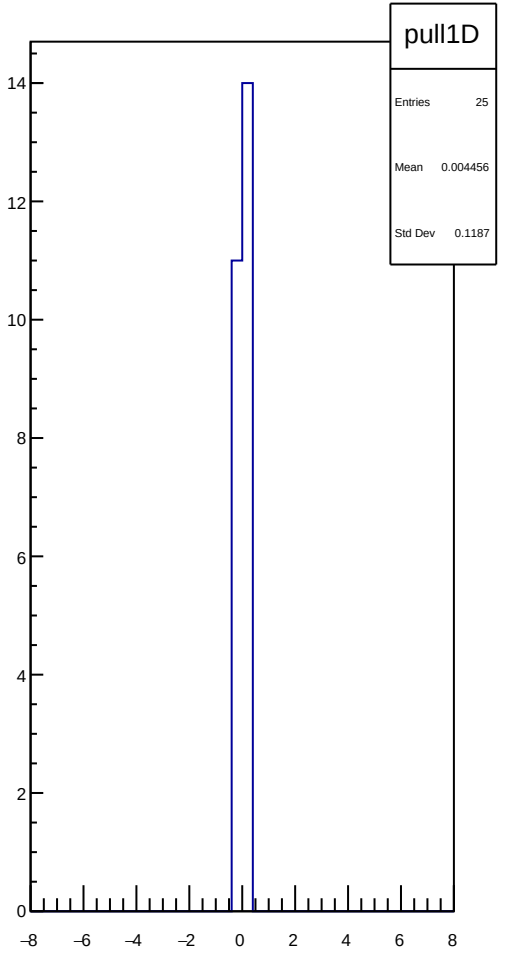

pull1D
Entries 25
Mean 0.02078
Std Dev 0.2791
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

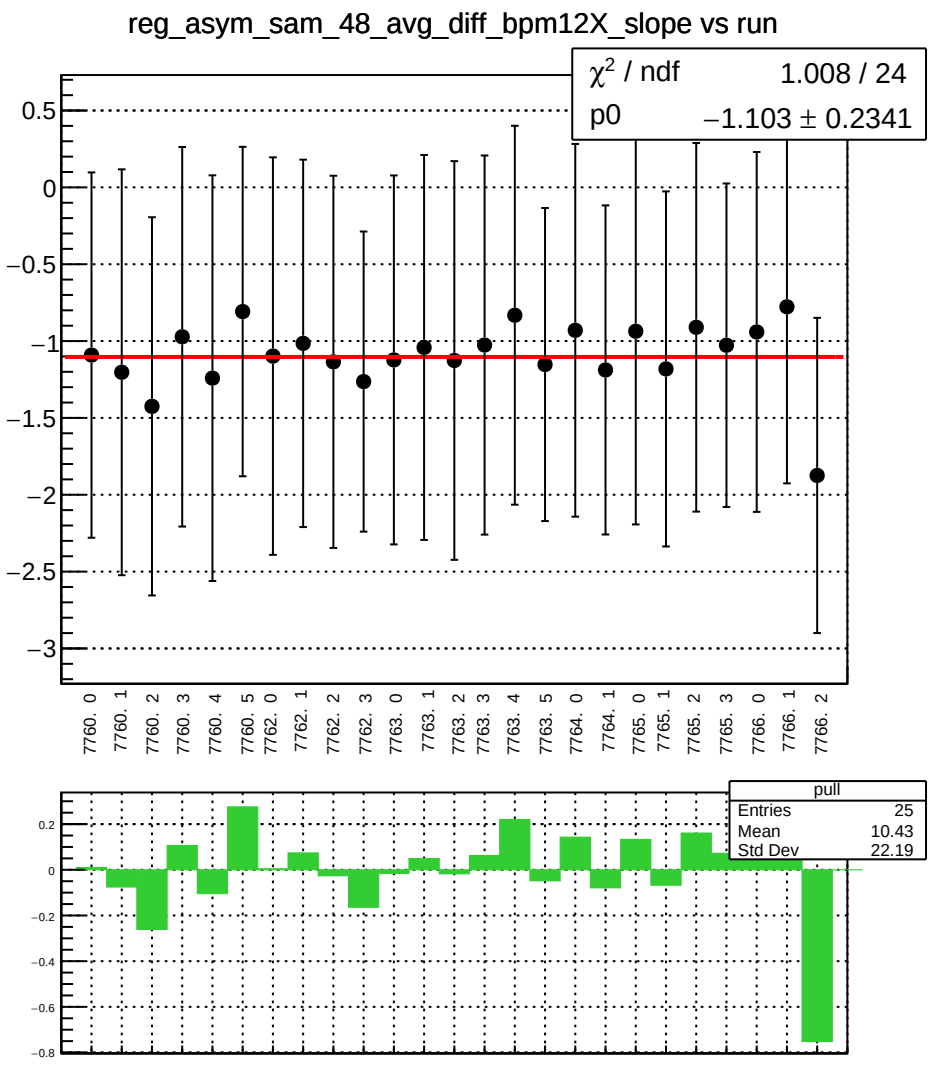

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.2307 / 24
p0 57.98 ± 7.583
100
80
60
40
20
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −33.83
Std Dev 43.9
0.25
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15

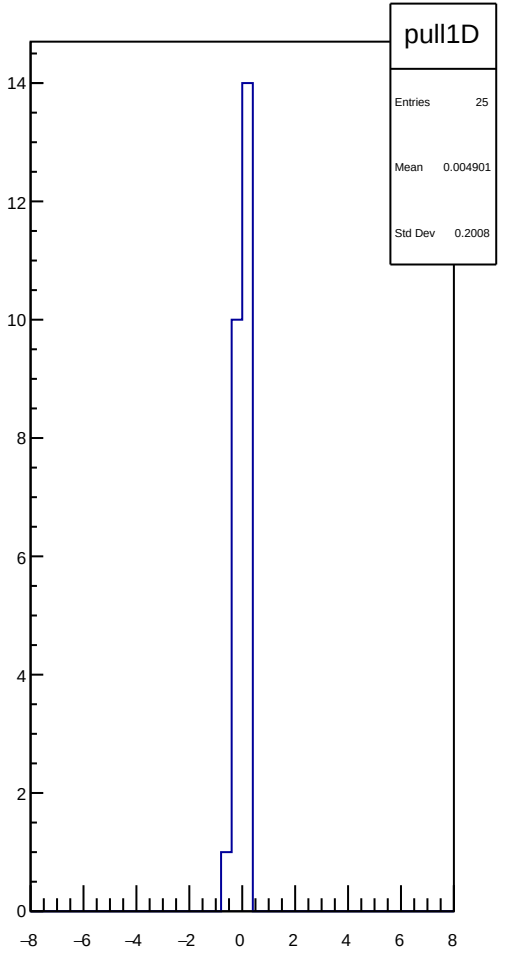

pull1D
Entries 25
Mean −0.003236
Std Dev 0.09601
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

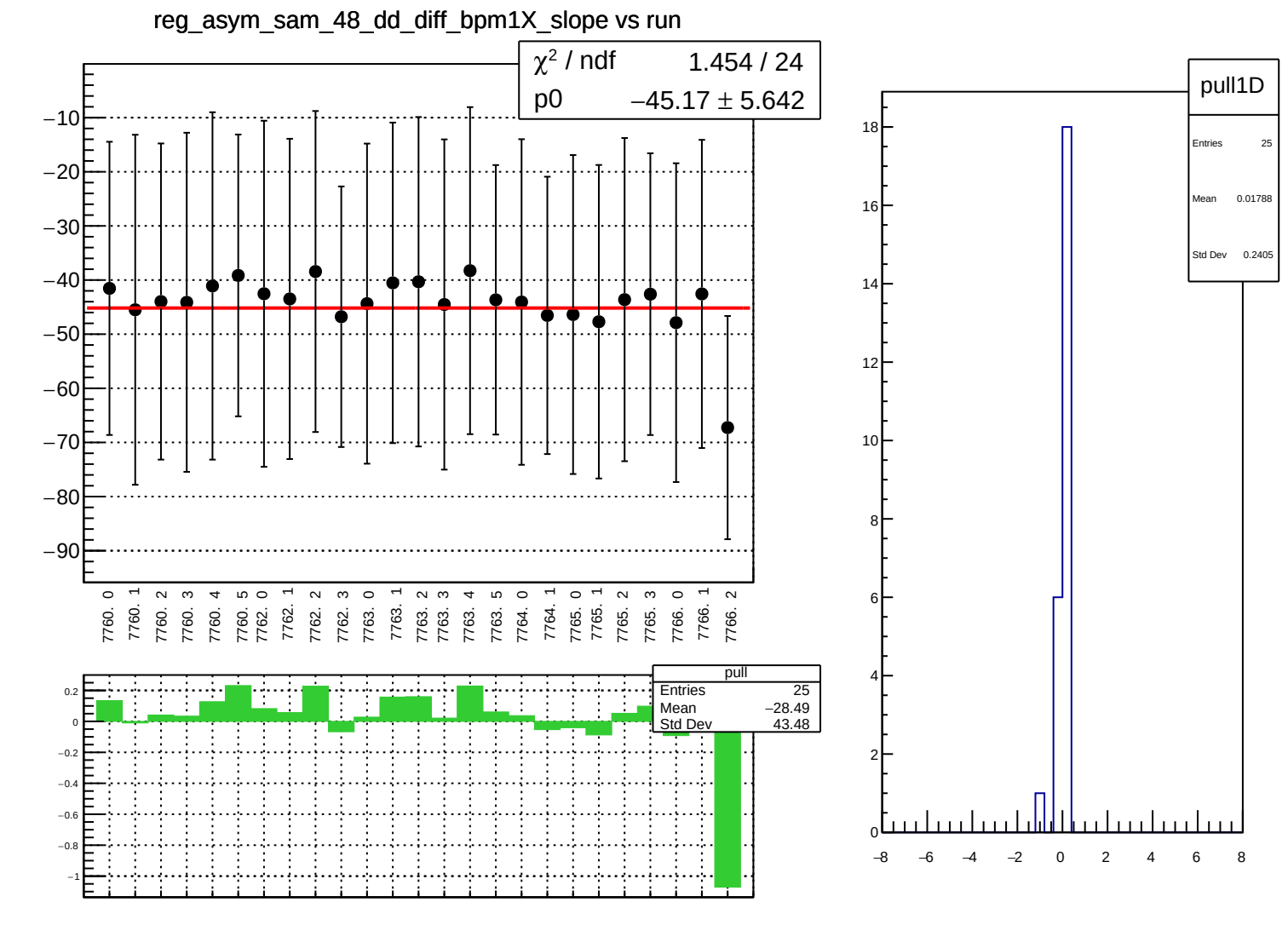

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.225 / 24
p0 −70.56 ± 6.603
−20
−40
−60
−80
−100
−120
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −20.37
Std Dev 36.15
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
pull1D
Entries 25
Mean −0.02449
Std Dev 0.2973
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

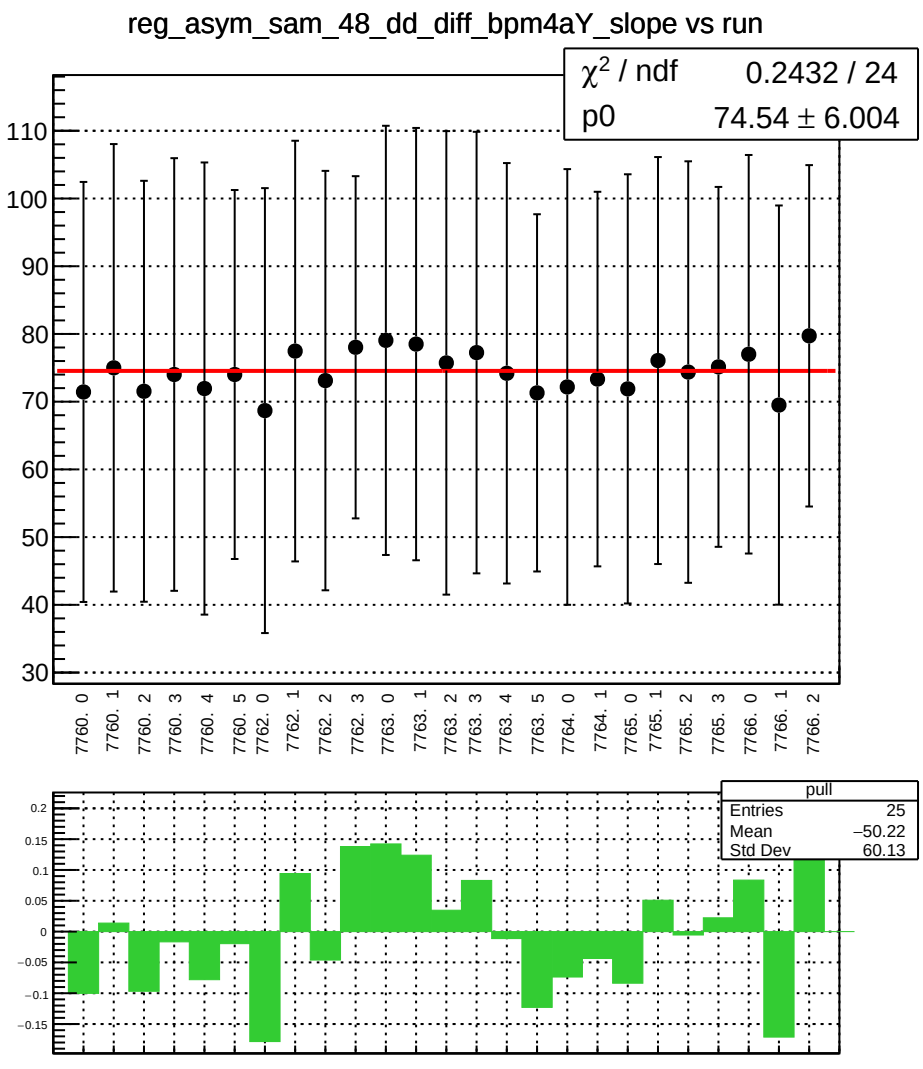

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.3528 / 24
p0 49.66 ± 8.543
100
80
60
40
20
0
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −20.64
Std Dev 34.51
0.1
0
−0.1
−0.2
−0.3
−0.4

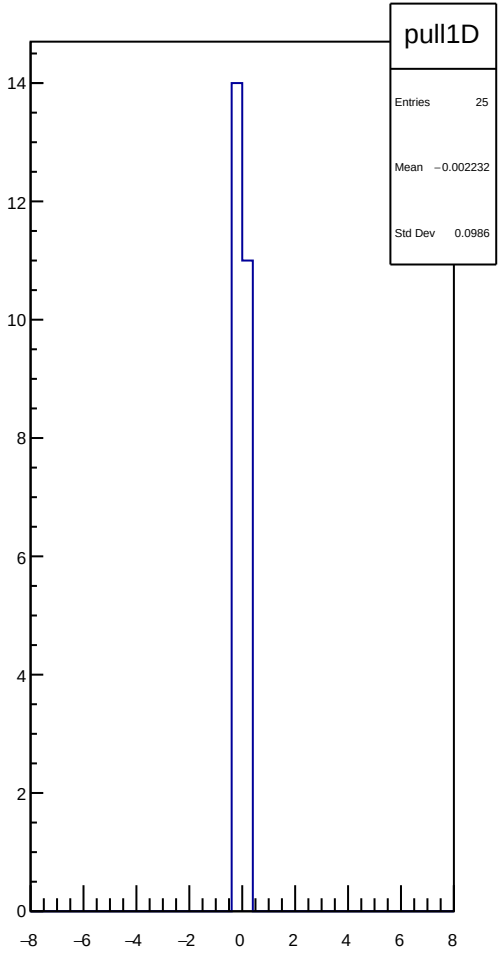

pull1D
Entries 25
Mean 0.004456
Std Dev 0.1187
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

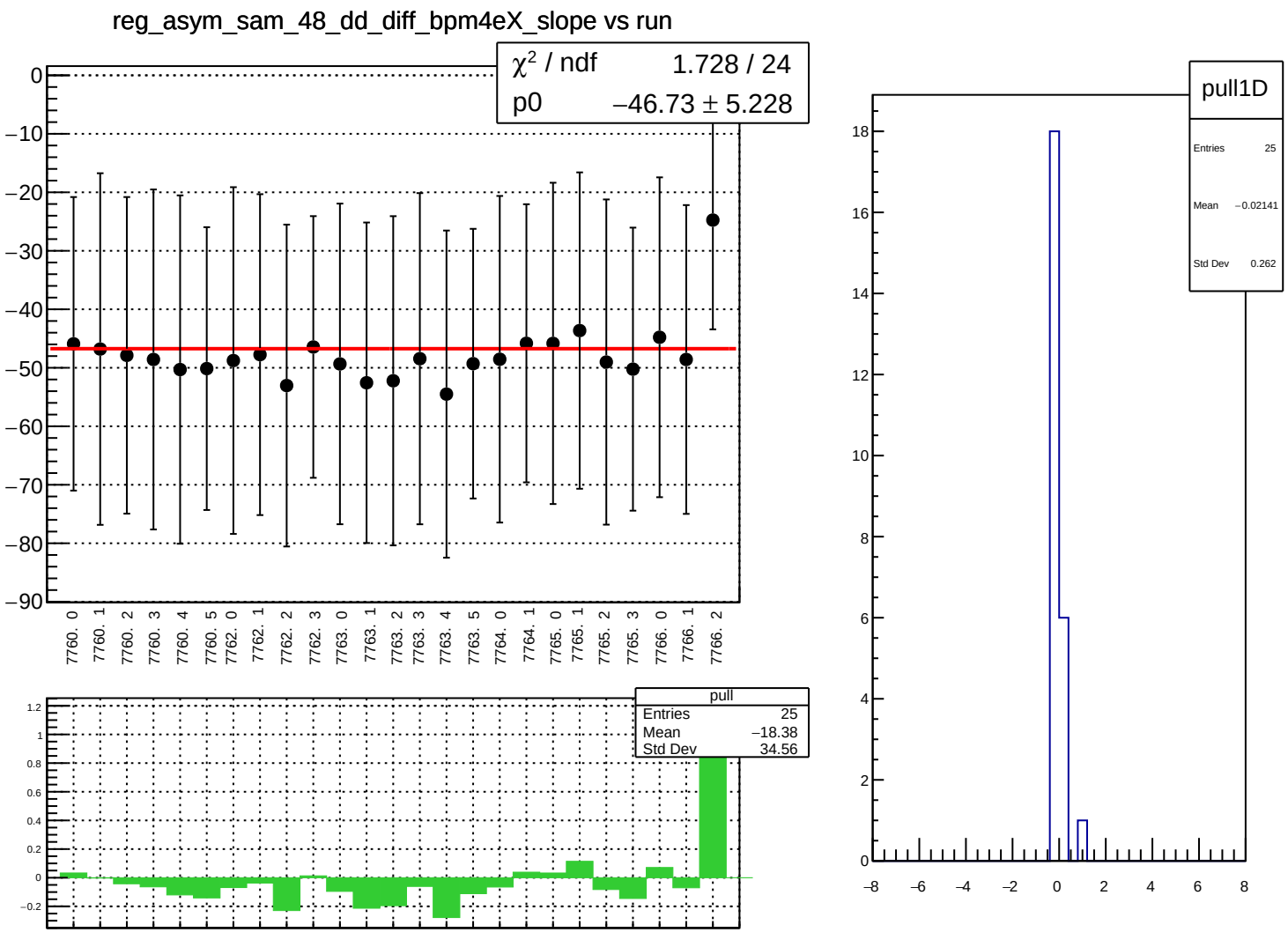

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 1.008 / 24
p0 −1.103 ± 0.2341
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 10.43
Std Dev 22.19
0.2
0
−0.2
−0.4
−0.6
−0.8

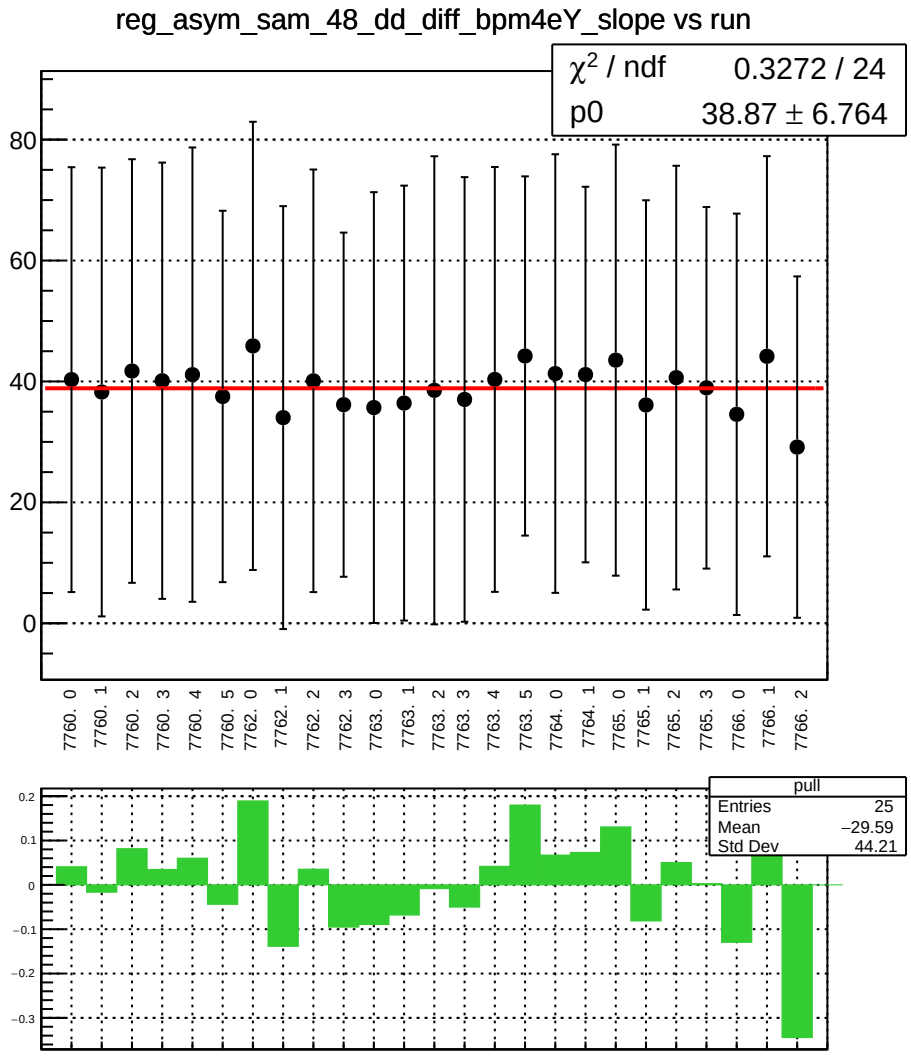

pull1D
Entries 25
Mean 0.004901
Std Dev 0.2008
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

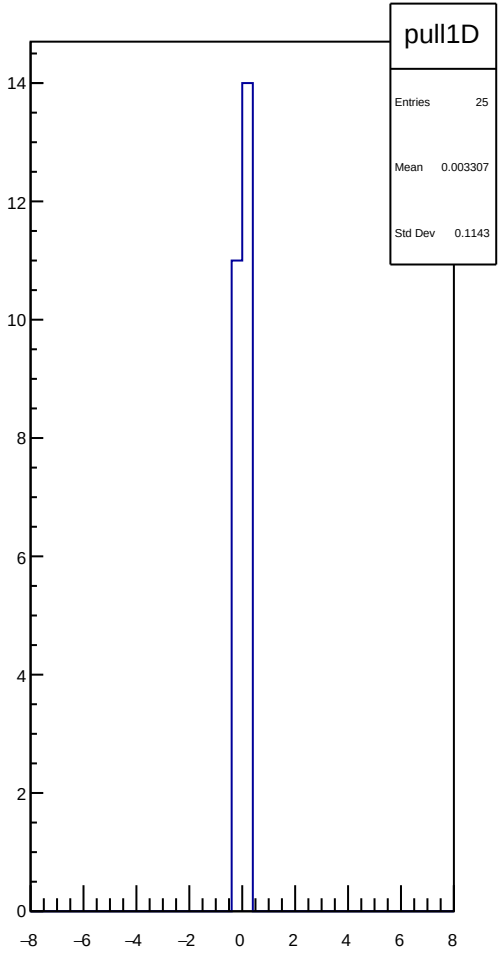

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 1.454 / 24
p0 −45.17 ± 5.642
−10
−20
−30
−40
−50
−60
−70
−80
−90
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −28.49
Std Dev 43.48
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 25
Mean 0.01788
Std Dev 0.2405
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

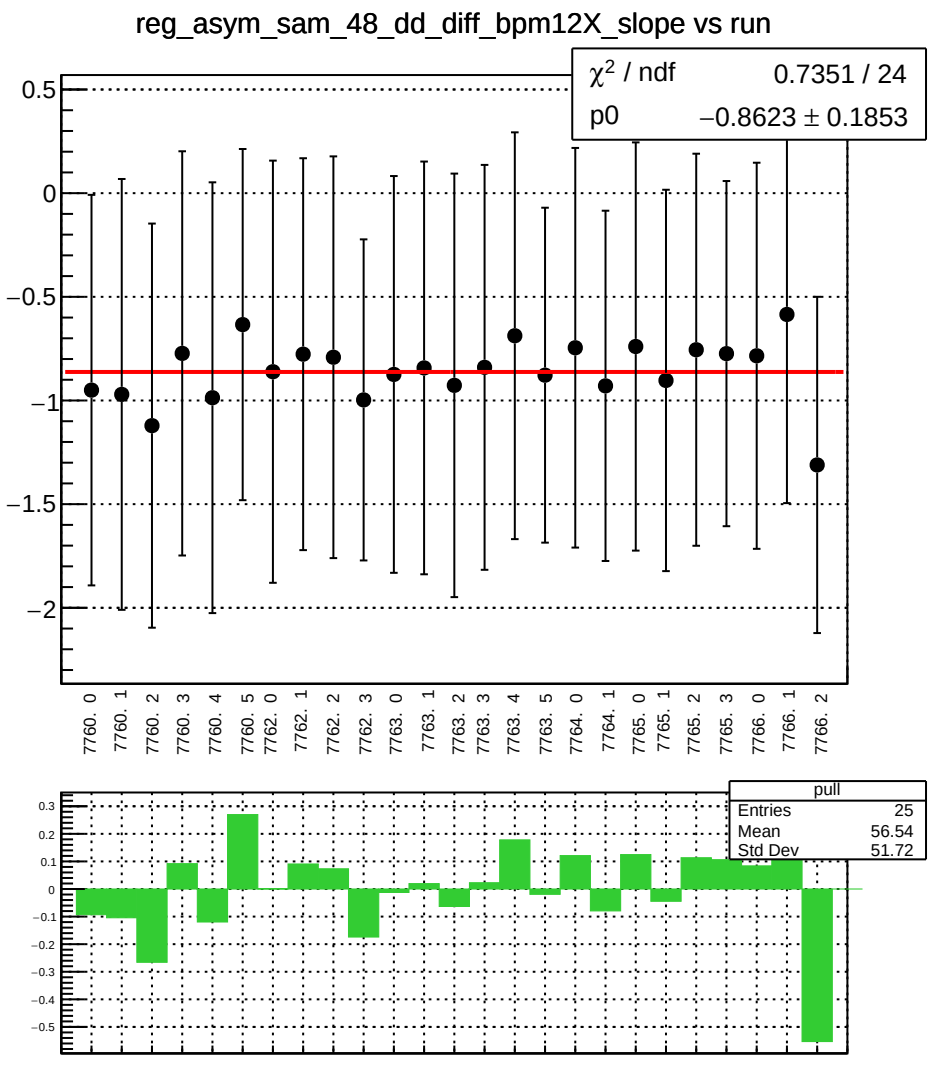

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.2432 / 24
p0 74.54 ± 6.004
110
100
90
80
70
60
50
40
30
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −50.22
Std Dev 60.13
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15

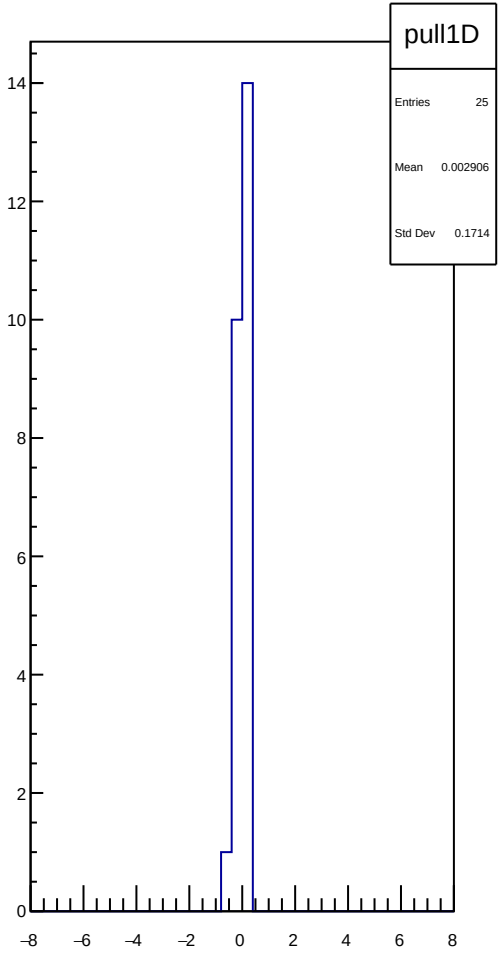

pull1D
Entries 25
Mean −0.002232
Std Dev 0.0986
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

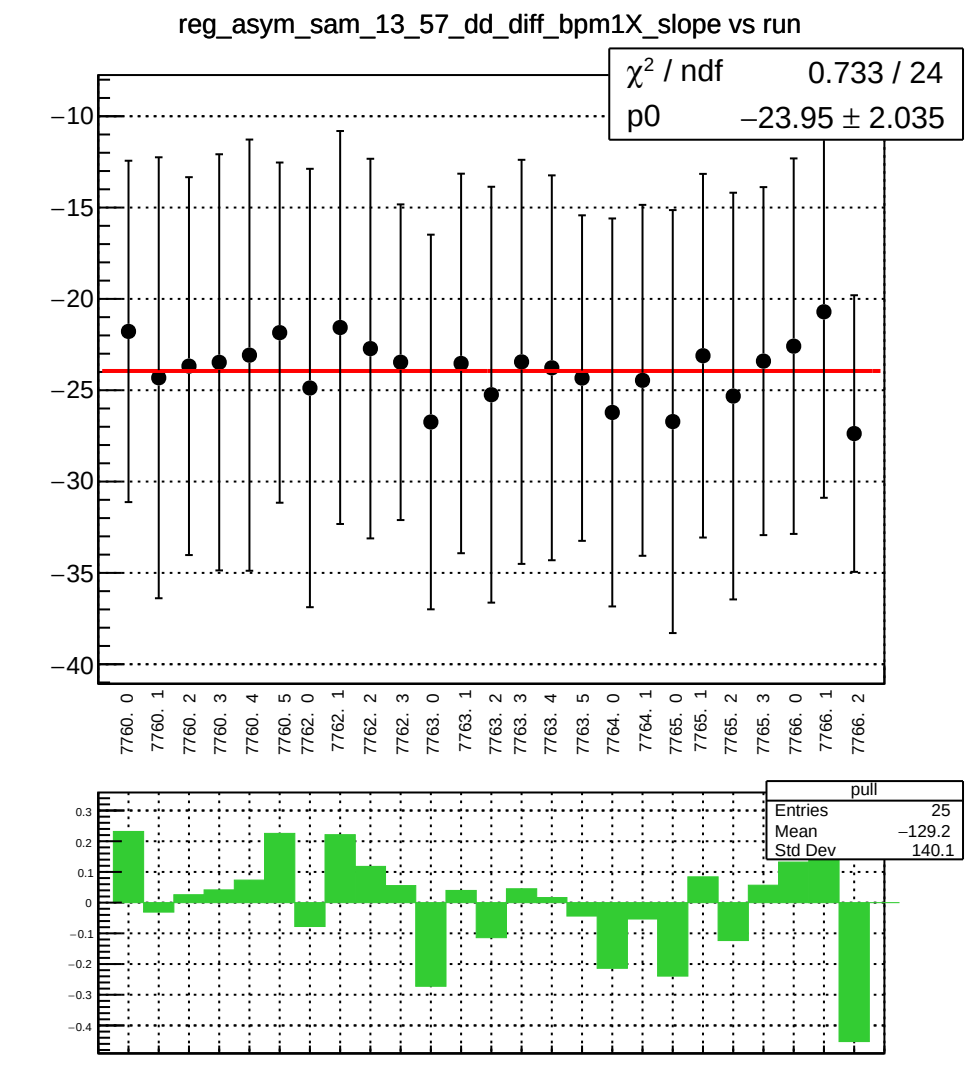

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.728 / 24
p0 −46.73 ± 5.228
0
−10
−20
−30
−40
−50
−60
−70
−80
−90
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −18.38
Std Dev 34.56
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
pull1D
Entries 25
Mean −0.02141
Std Dev 0.262
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

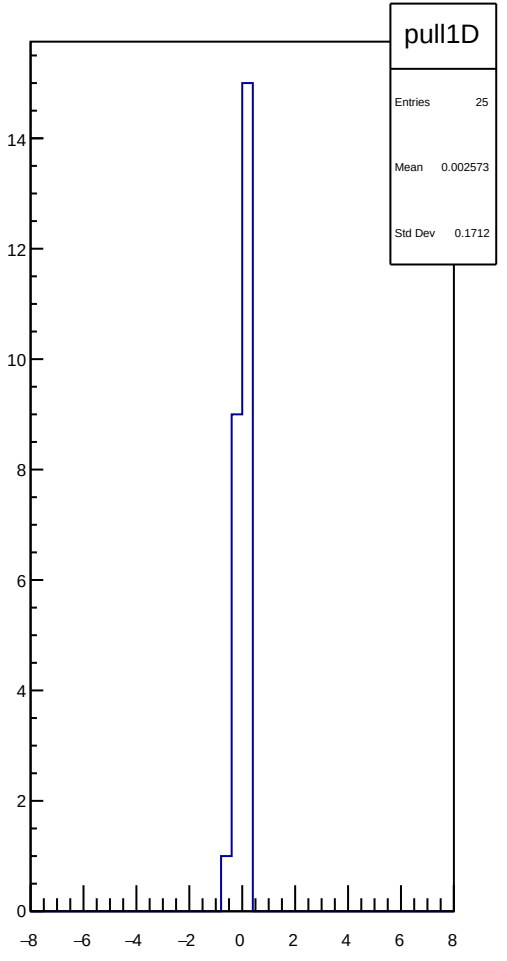

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.3272 / 24
p0 38.87 ± 6.764
80
60
40
20
0
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −29.59
Std Dev 44.21
0.2
0.1
0
−0.1
−0.2
−0.3

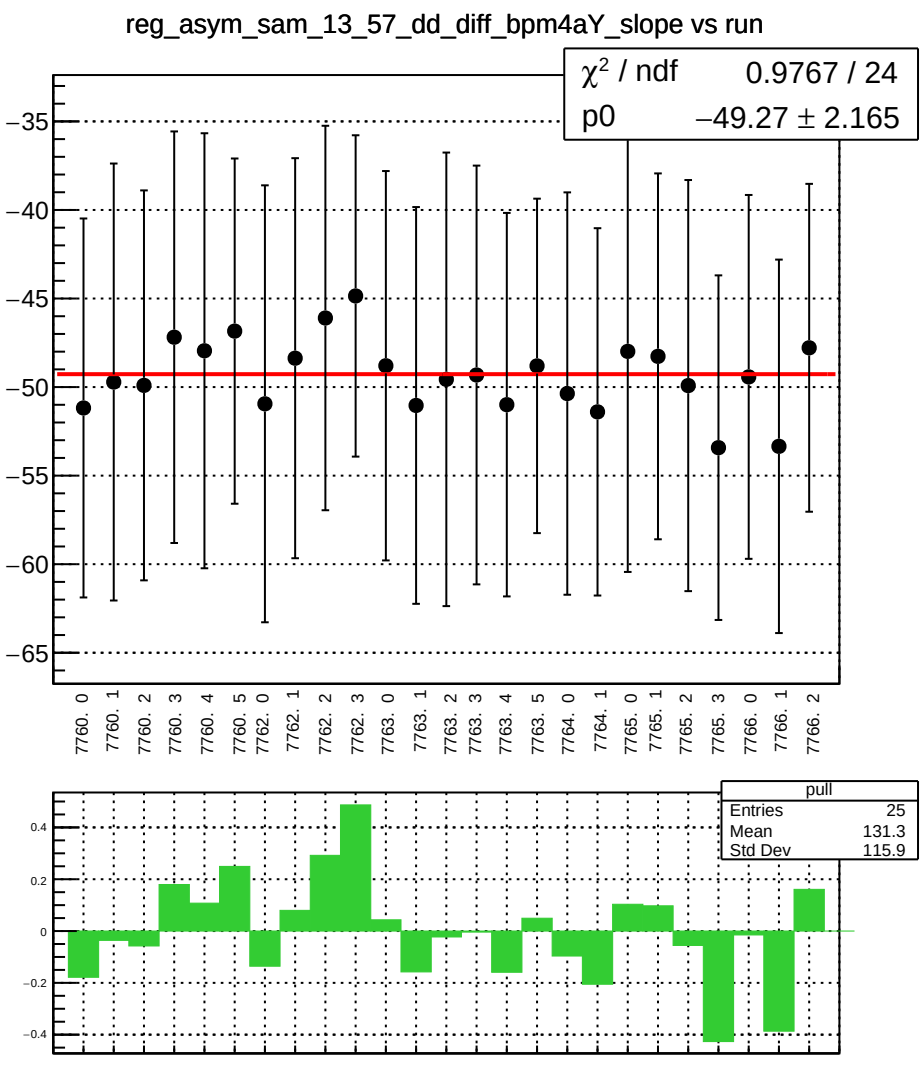

pull1D
Entries 25
Mean 0.003307
Std Dev 0.1143
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

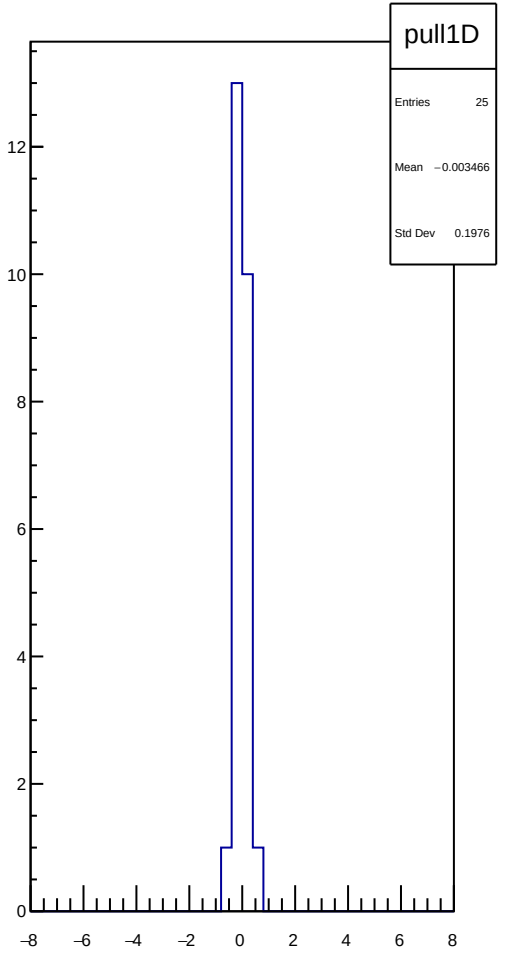

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 0.7351 / 24
p0 −0.8623 ± 0.1853
0.5
0
−0.5
−1
−1.5
−2
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 56.54
Std Dev 51.72
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5

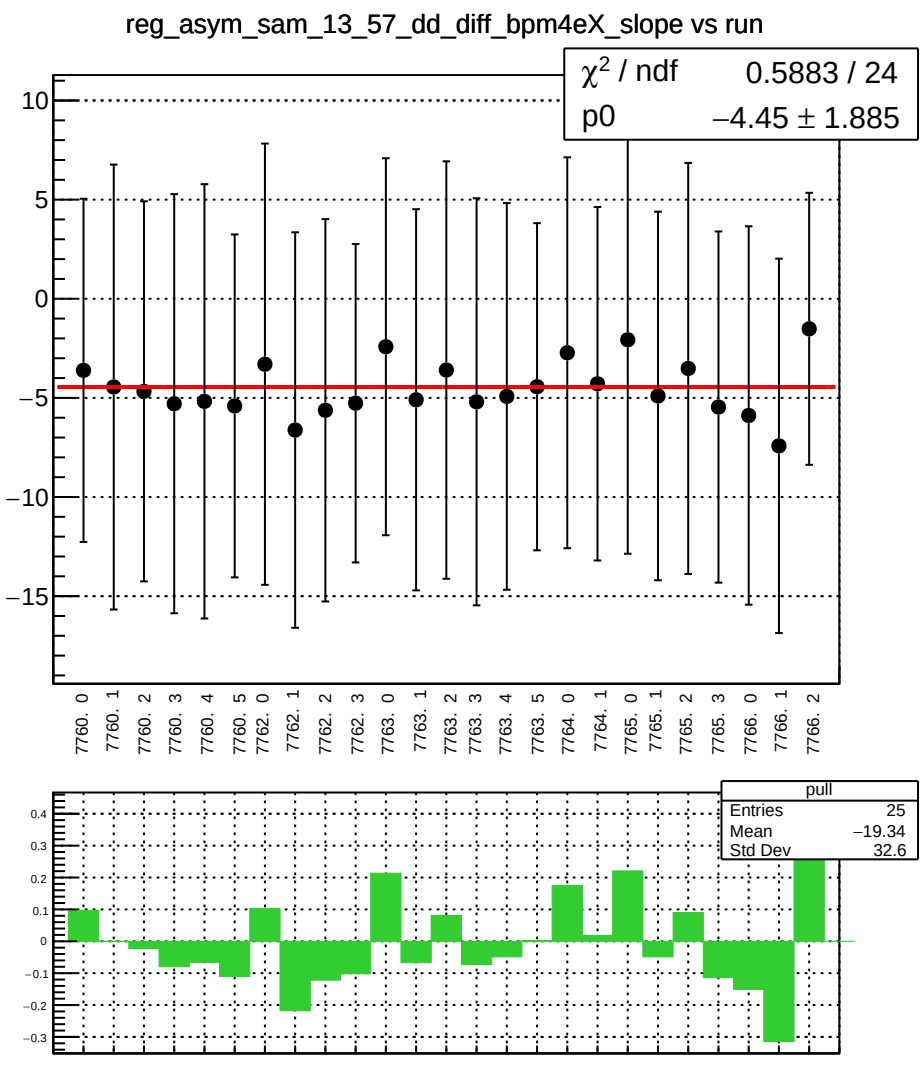

pull1D
Entries 25
Mean 0.002906
Std Dev 0.1714
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

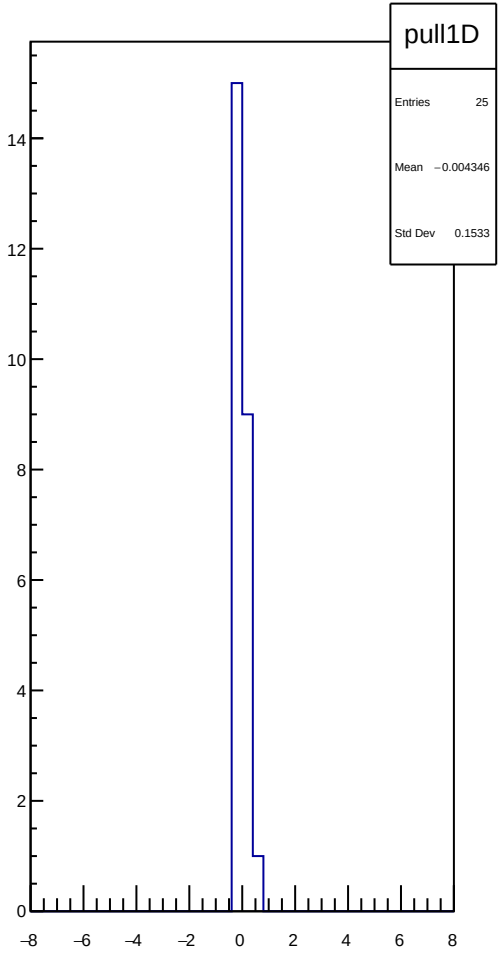

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 0.733 / 24
p0 −23.95 ± 2.035
−10
−15
−20
−25
−30
−35
−40
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −129.2
Std Dev 140.1
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

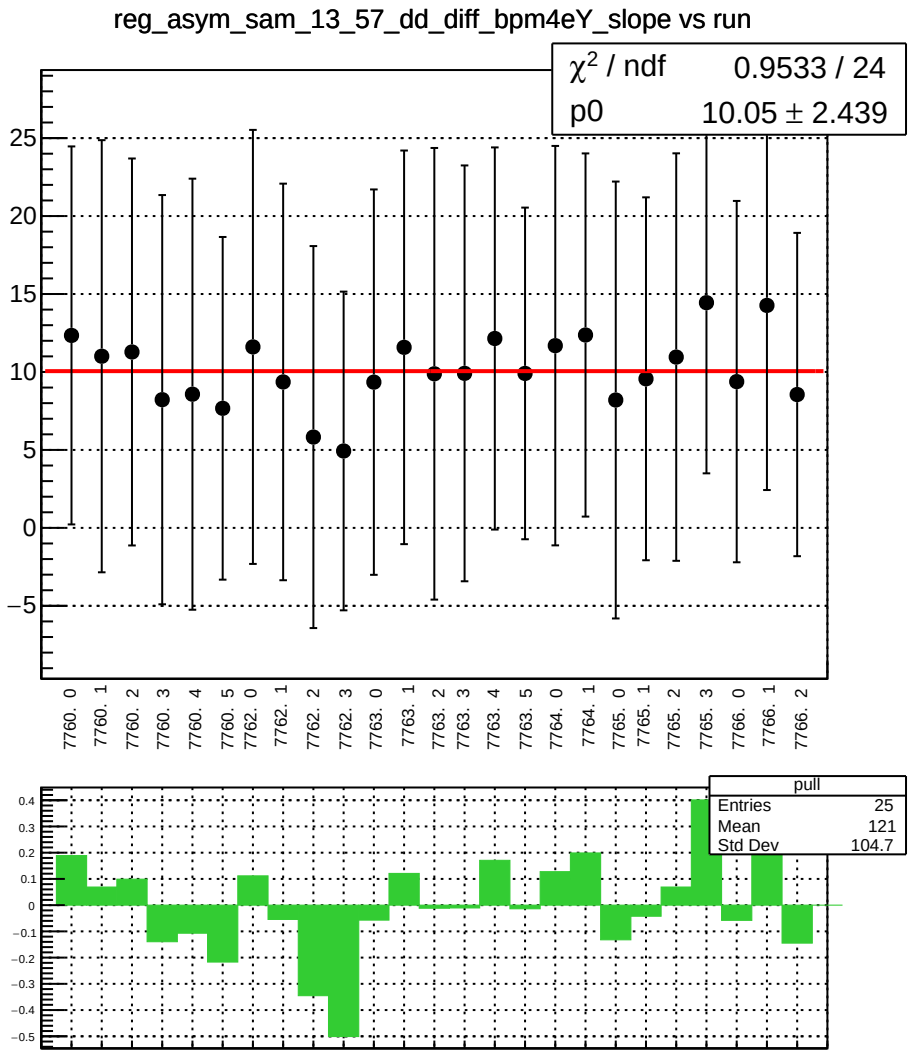

pull1D
Entries 25
Mean 0.002573
Std Dev 0.1712
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

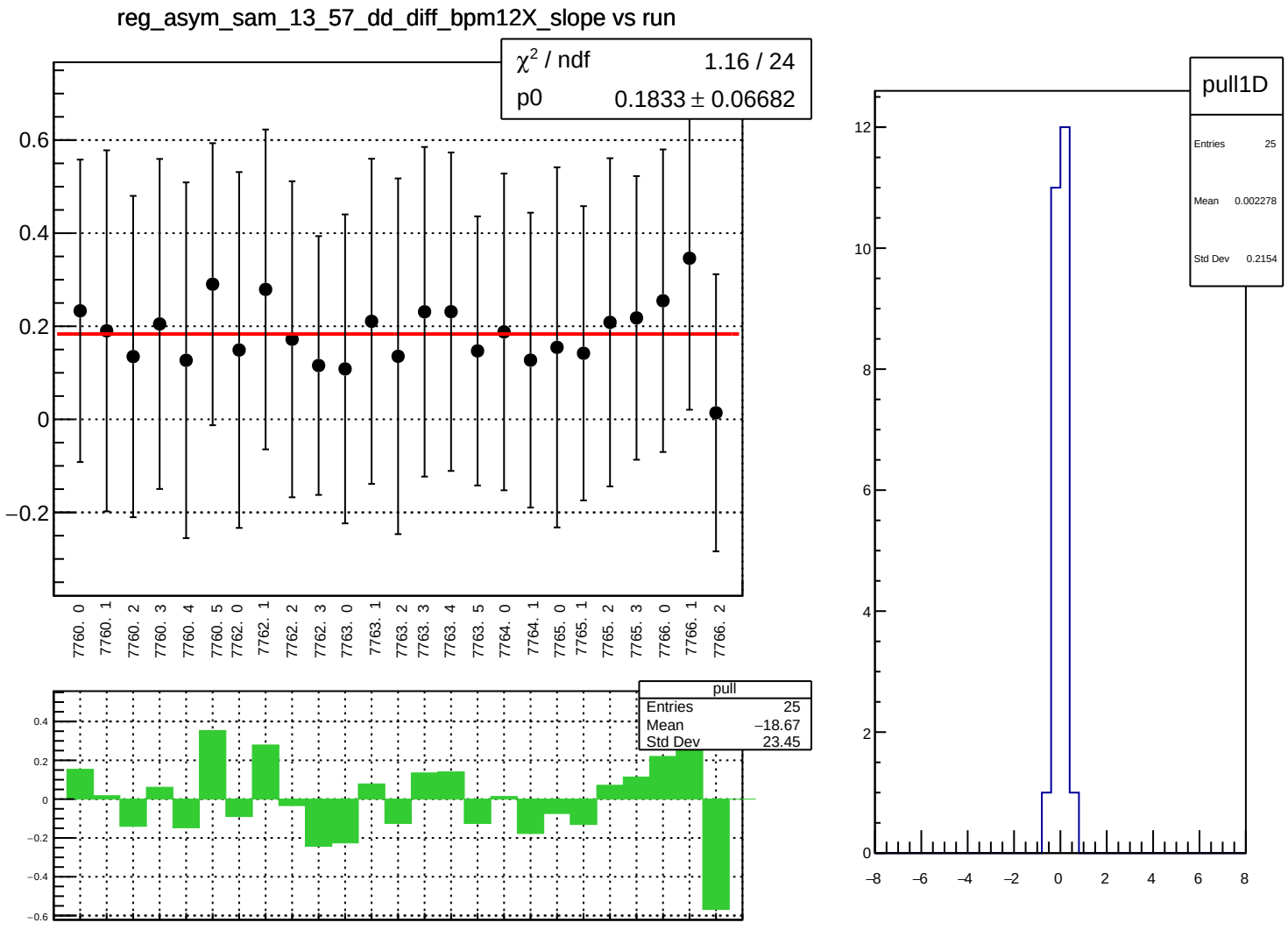

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.9767 / 24
p0 −49.27 ± 2.165
−35
−40
−45
−50
−55
−60
−65
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 131.3
Std Dev 115.9
0.4
0.2
0
−0.2
−0.4

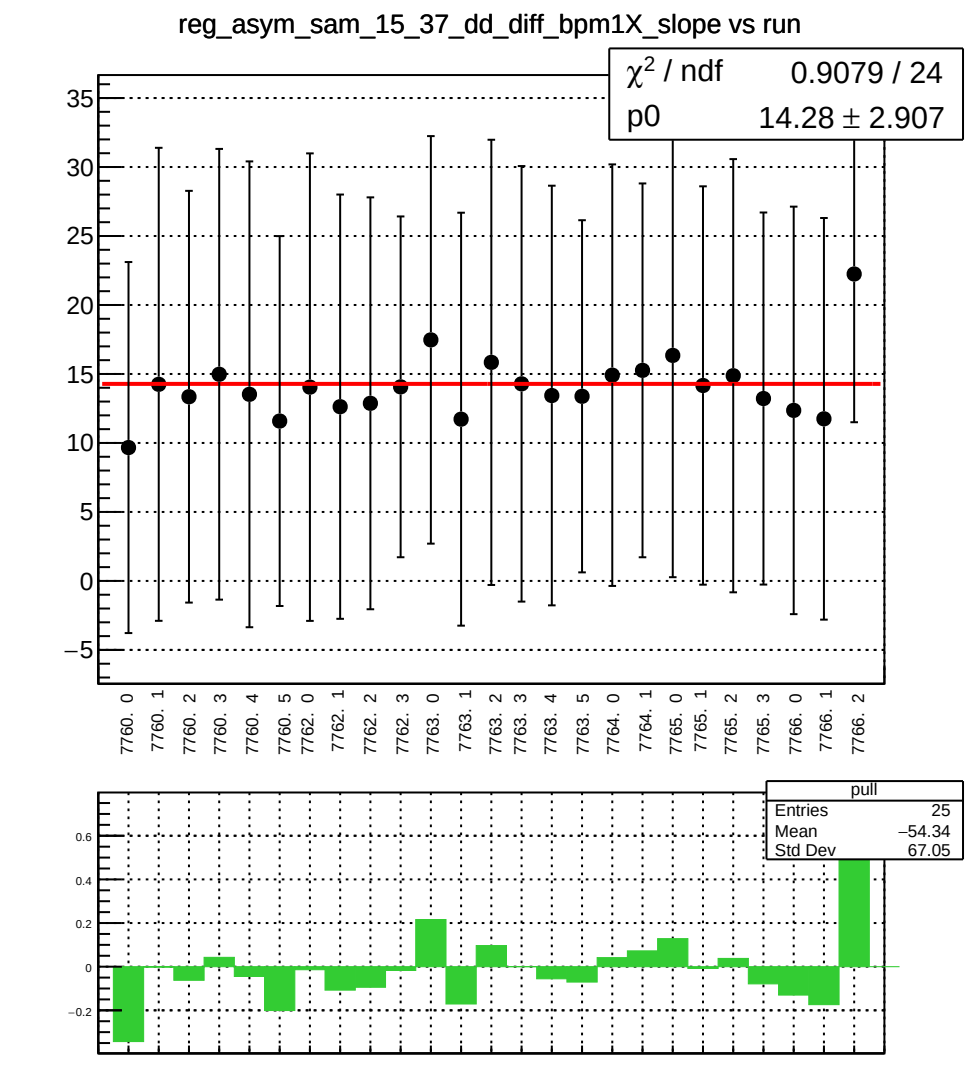

pull1D
Entries 25
Mean −0.003466
Std Dev 0.1976
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

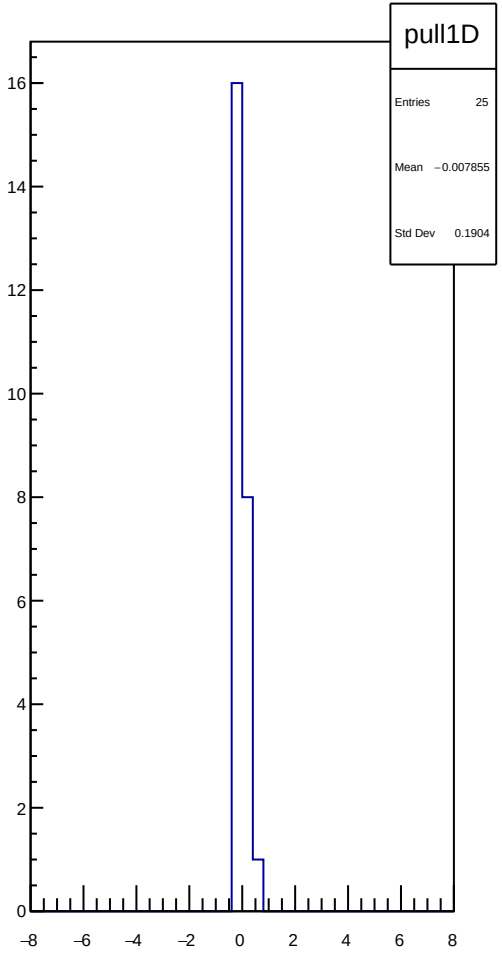

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.5883 / 24
p0 −4.45 ± 1.885
10
5
0
−5
−10
−15
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −19.34
Std Dev 32.6
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

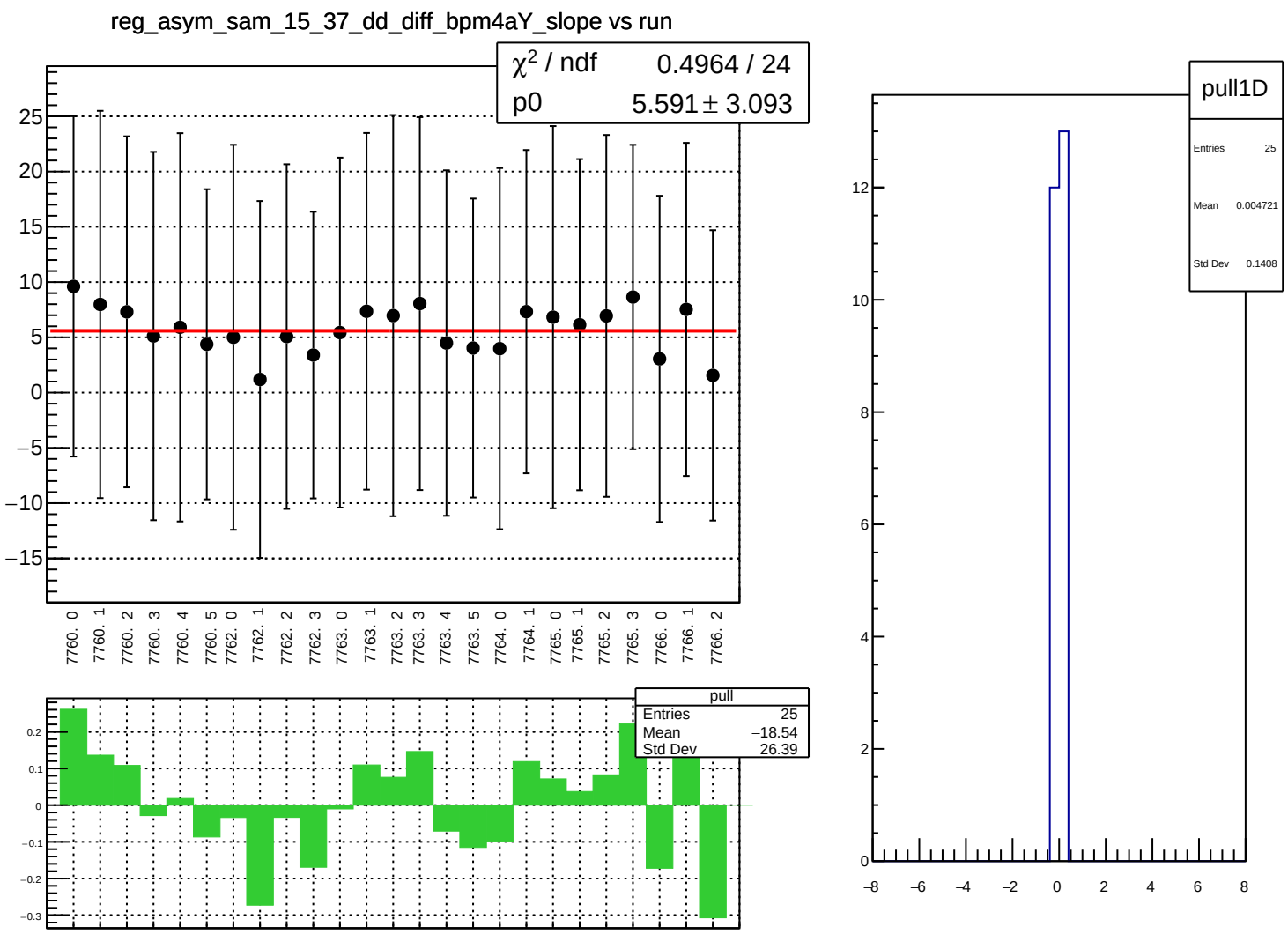

pull1D
Entries 25
Mean −0.004346
Std Dev 0.1533
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

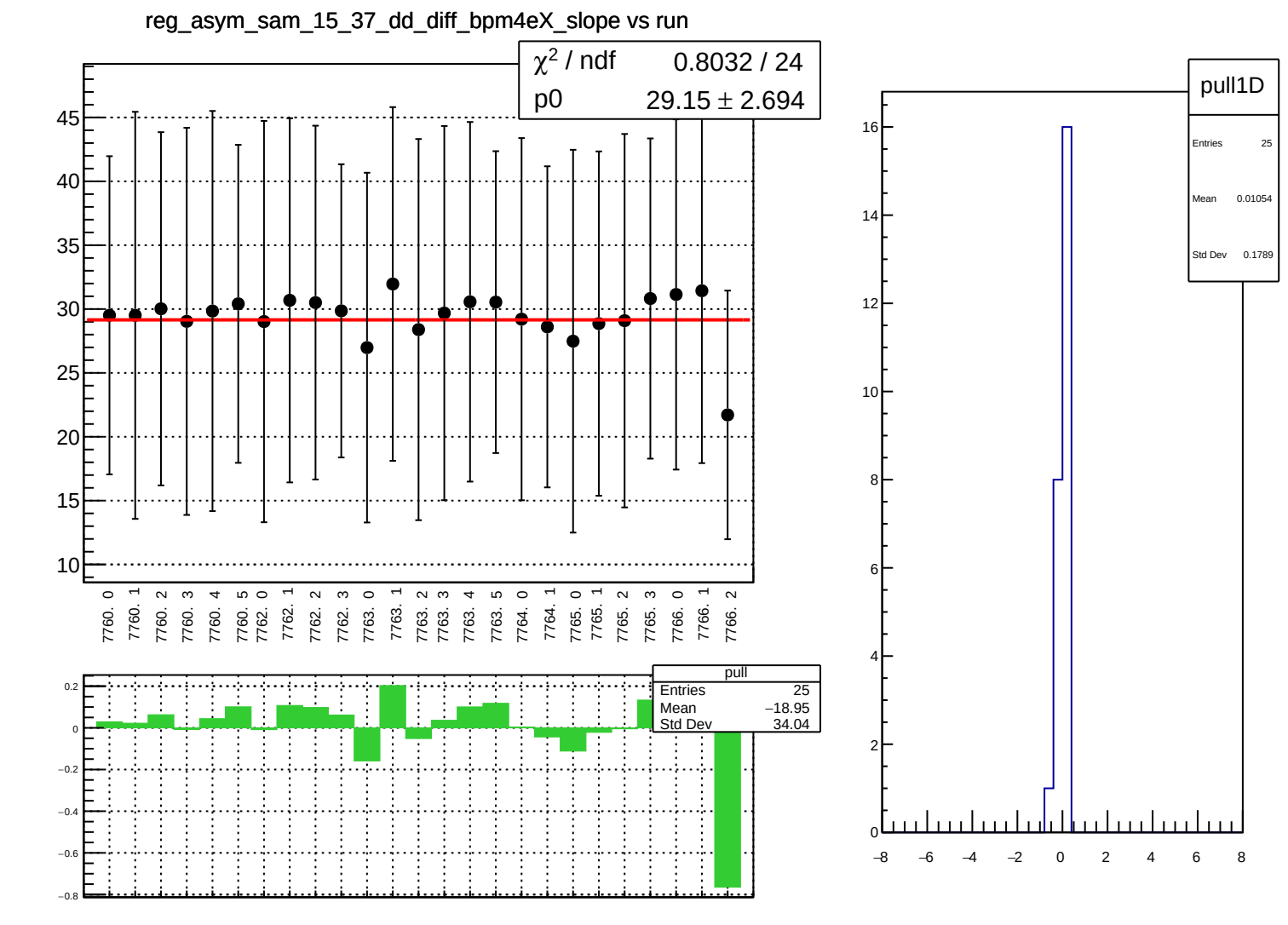

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.9533 / 24
p0 10.05 ± 2.439
25
20
15
10
5
0
−5
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 121
Std Dev 104.7
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
pull1D
Entries 25
Mean 0.003156
Std Dev 0.1952
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

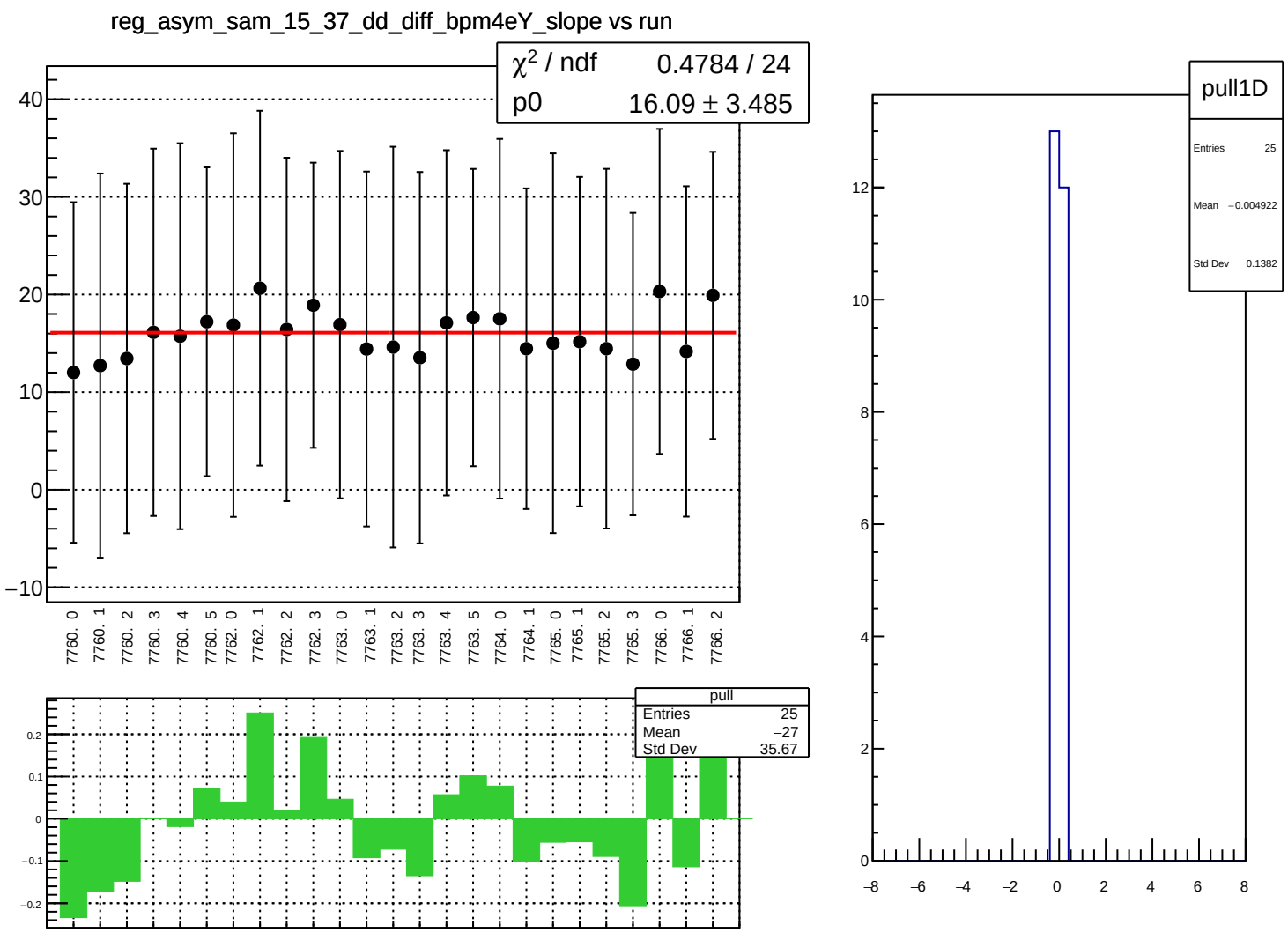

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 1.16 / 24
p0 0.1833 ± 0.06682
0.6
0.4
0.2
0
−0.2
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −18.67
Std Dev 23.45
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 25
Mean 0.002278
Std Dev 0.2154
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

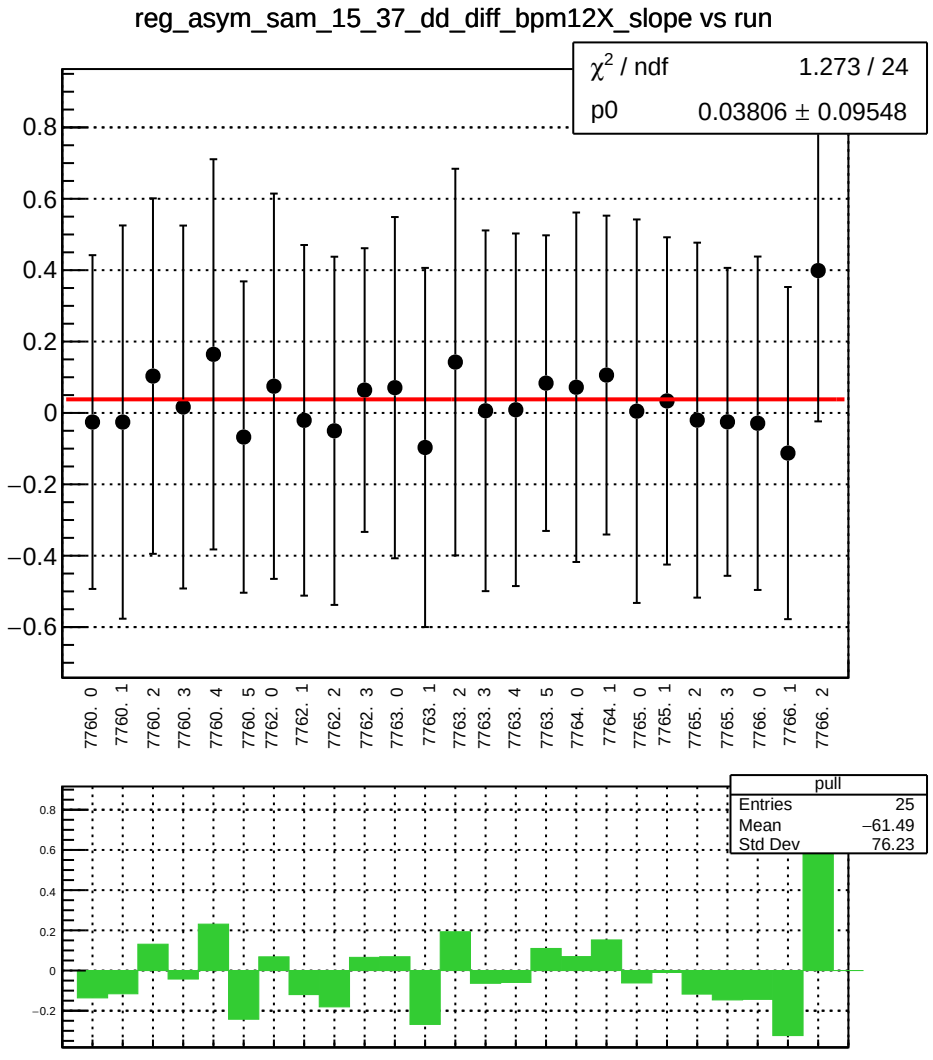

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 0.9079 / 24
p0 14.28 ± 2.907
35
30
25
20
15
10
5
0
−5
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −54.34
Std Dev 67.05
0.6
0.4
0.2
0
−0.2

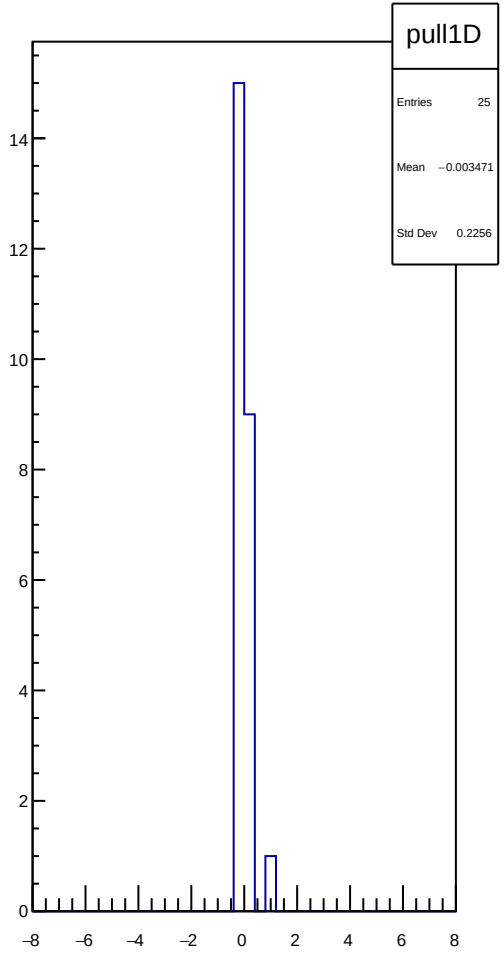

pull1D
Entries 25
Mean −0.007855
Std Dev 0.1904
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

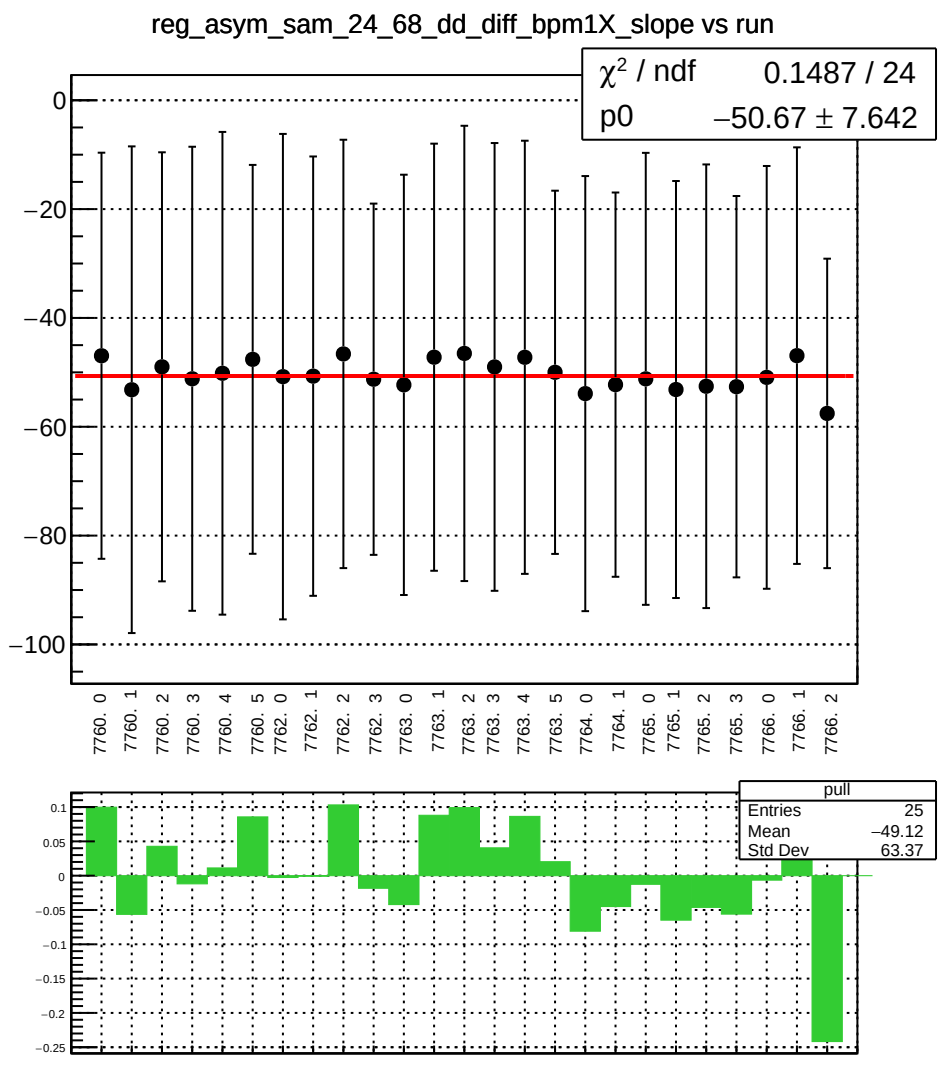

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.4964 / 24
p0 5.591 ± 3.093
25
20
15
10
5
0
−5
−10
−15
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −18.54
Std Dev 26.39
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 25
Mean 0.004721
Std Dev 0.1408
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

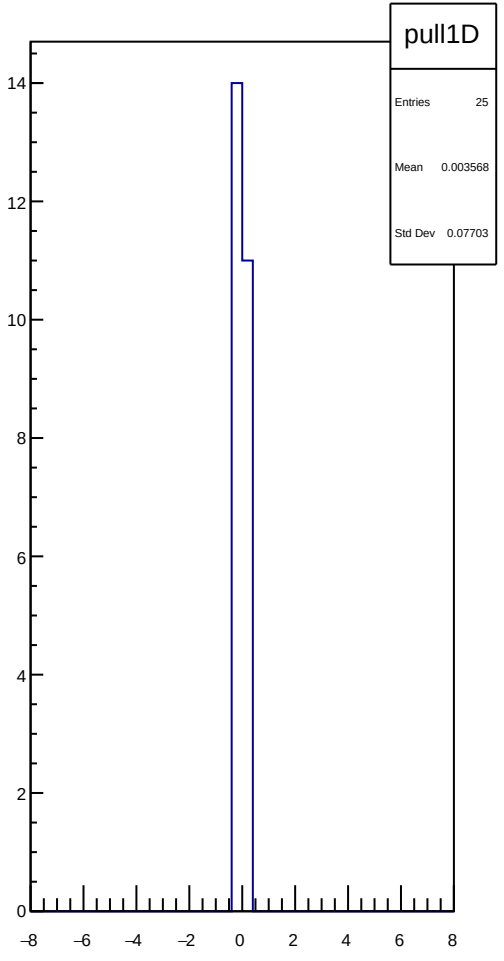

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.8032 / 24
p0 29.15 ± 2.694
45
40
35
30
25
20
15
10
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −18.95
Std Dev 34.04
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 25
Mean 0.01054
Std Dev 0.1789
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

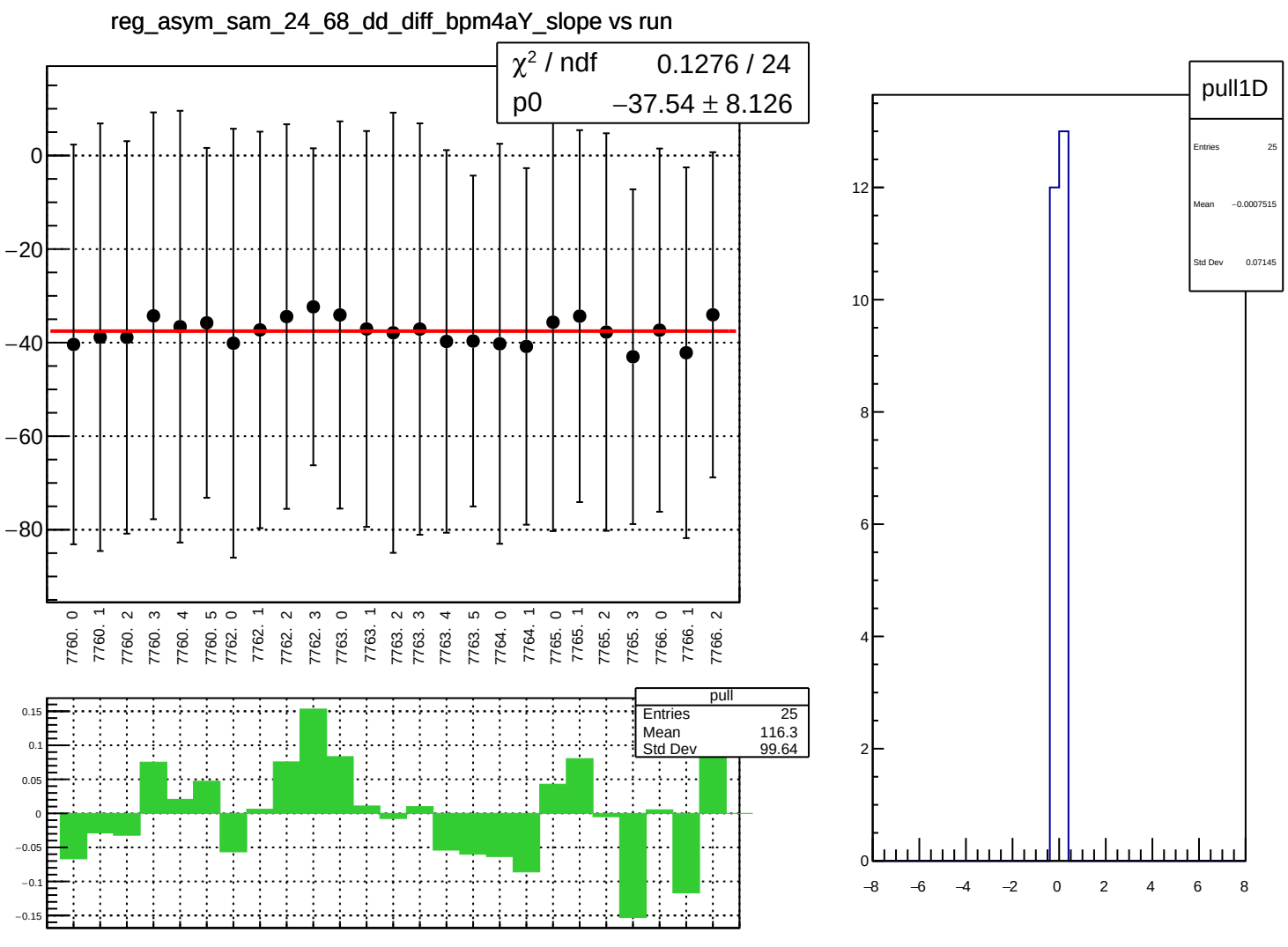

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.4784 / 24
p0 16.09 ± 3.485
40
30
20
10
0
−10
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −27
Std Dev 35.67
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 25
Mean −0.004922
Std Dev 0.1382
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

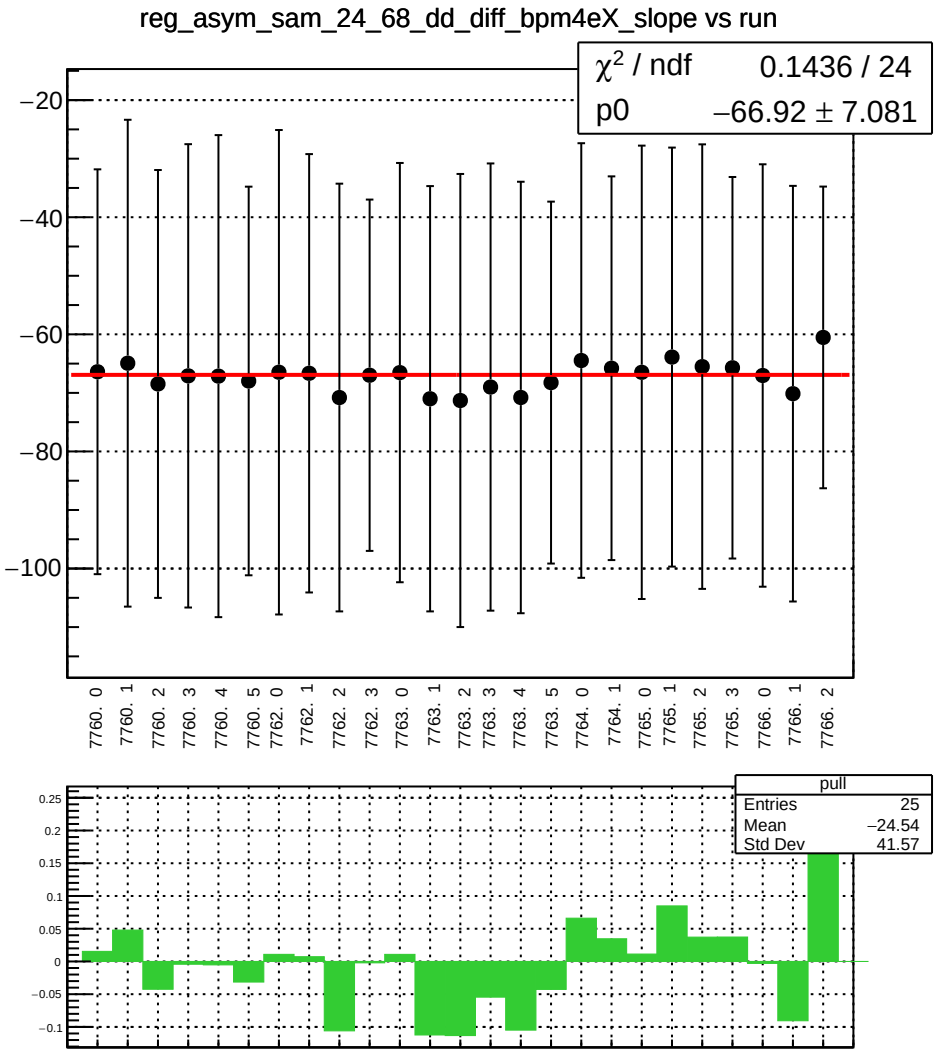

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 1.273 / 24
p0 0.03806 ± 0.09548
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −61.49
Std Dev 76.23
0.8
0.6
0.4
0.2
0
−0.2

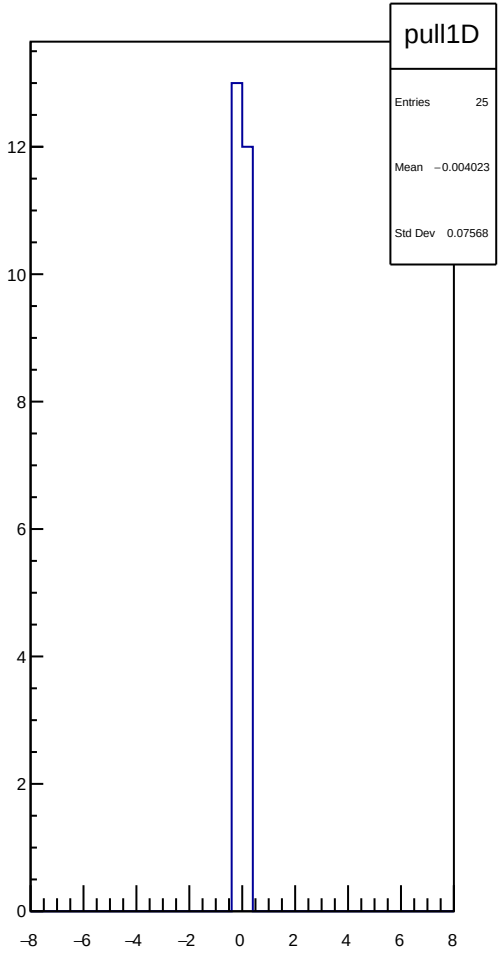

pull1D
Entries 25
Mean −0.003471
Std Dev 0.2256
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

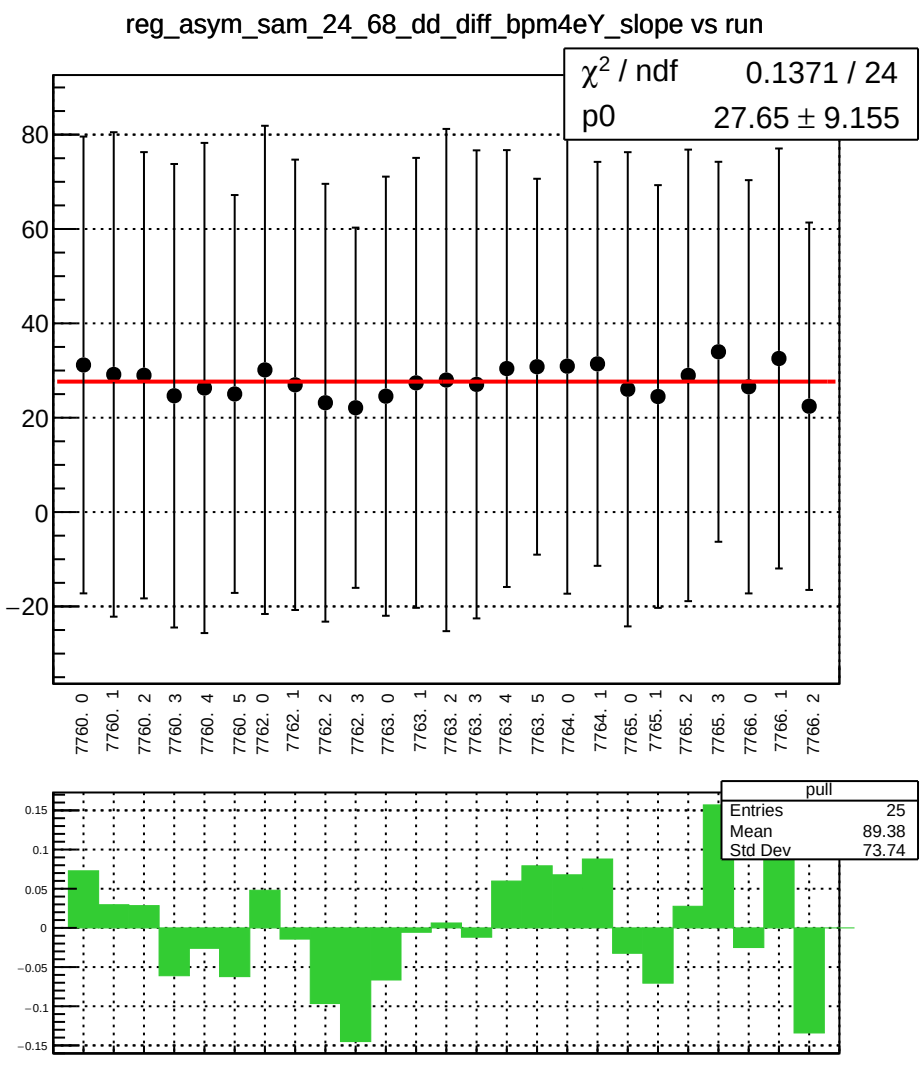

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 0.1487 / 24
p0 −50.67 ± 7.642
0
−20
−40
−60
−80
−100
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −49.12
Std Dev 63.37
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
−0.25

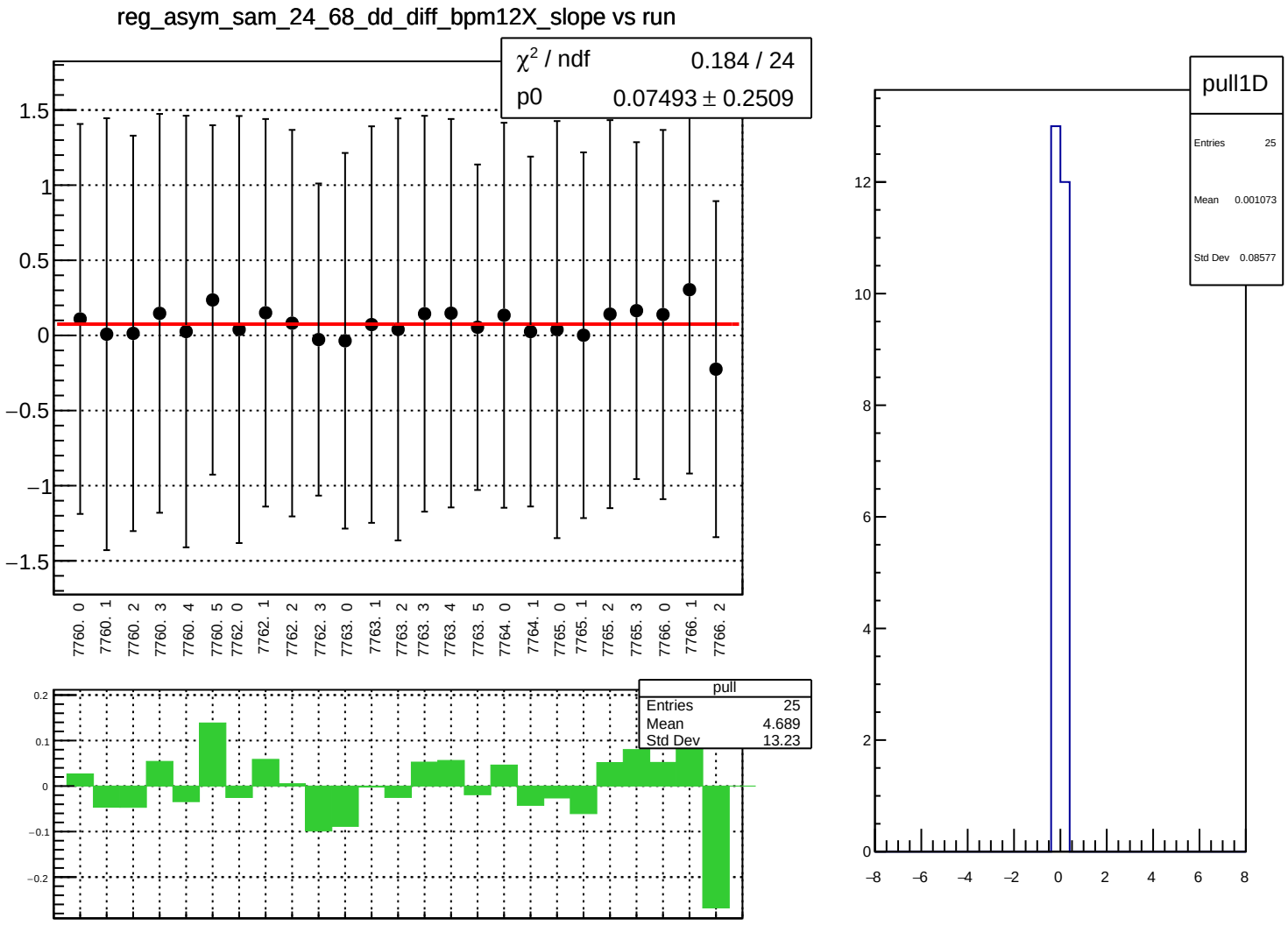

pull1D
Entries 25
Mean 0.003568
Std Dev 0.07703
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

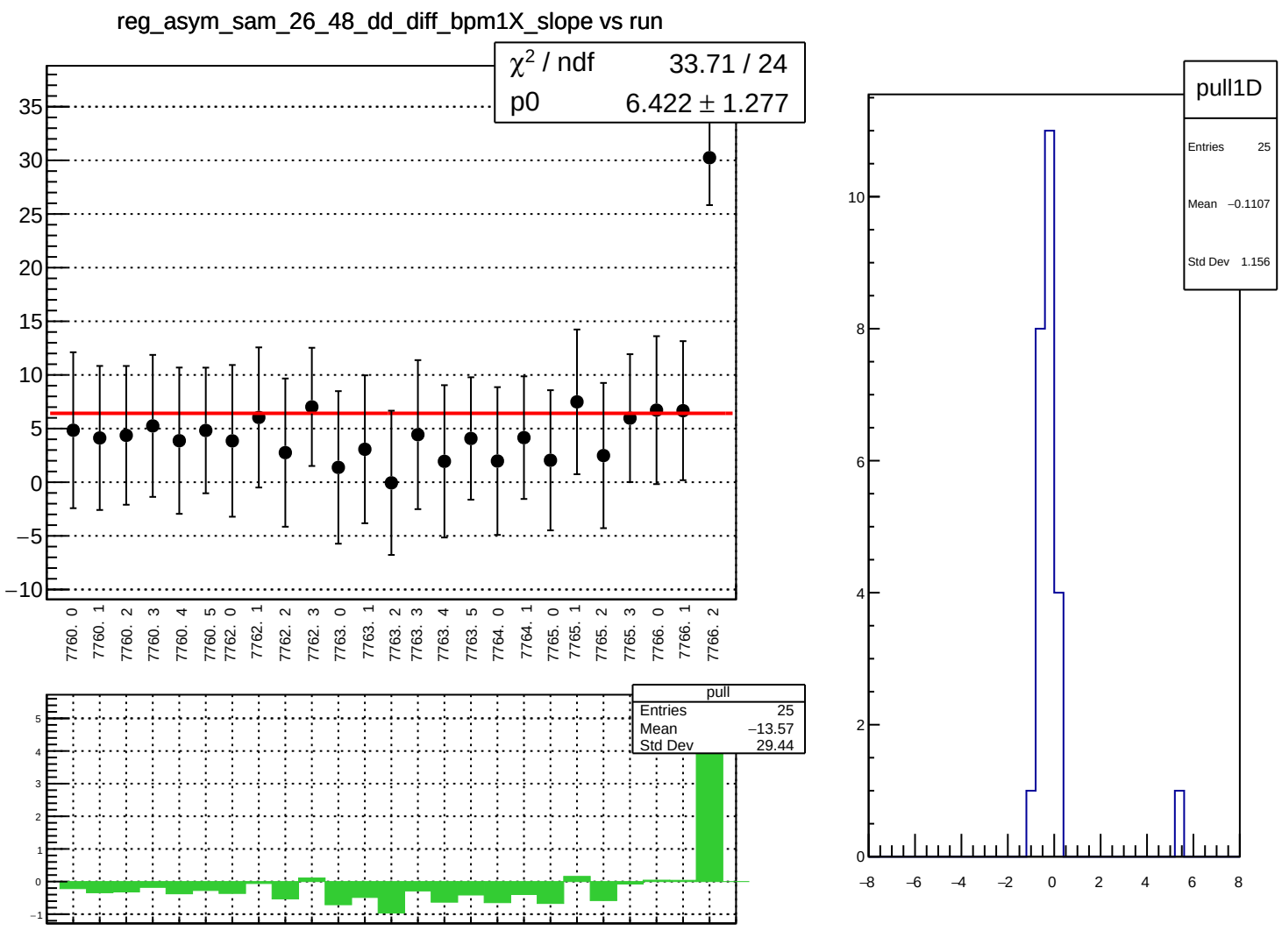

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.1276 / 24
p0 −37.54 ± 8.126
0
−20
−40
−60
−80
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 116.3
Std Dev 99.64
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull1D
Entries 25
Mean −0.0007515
Std Dev 0.07145
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

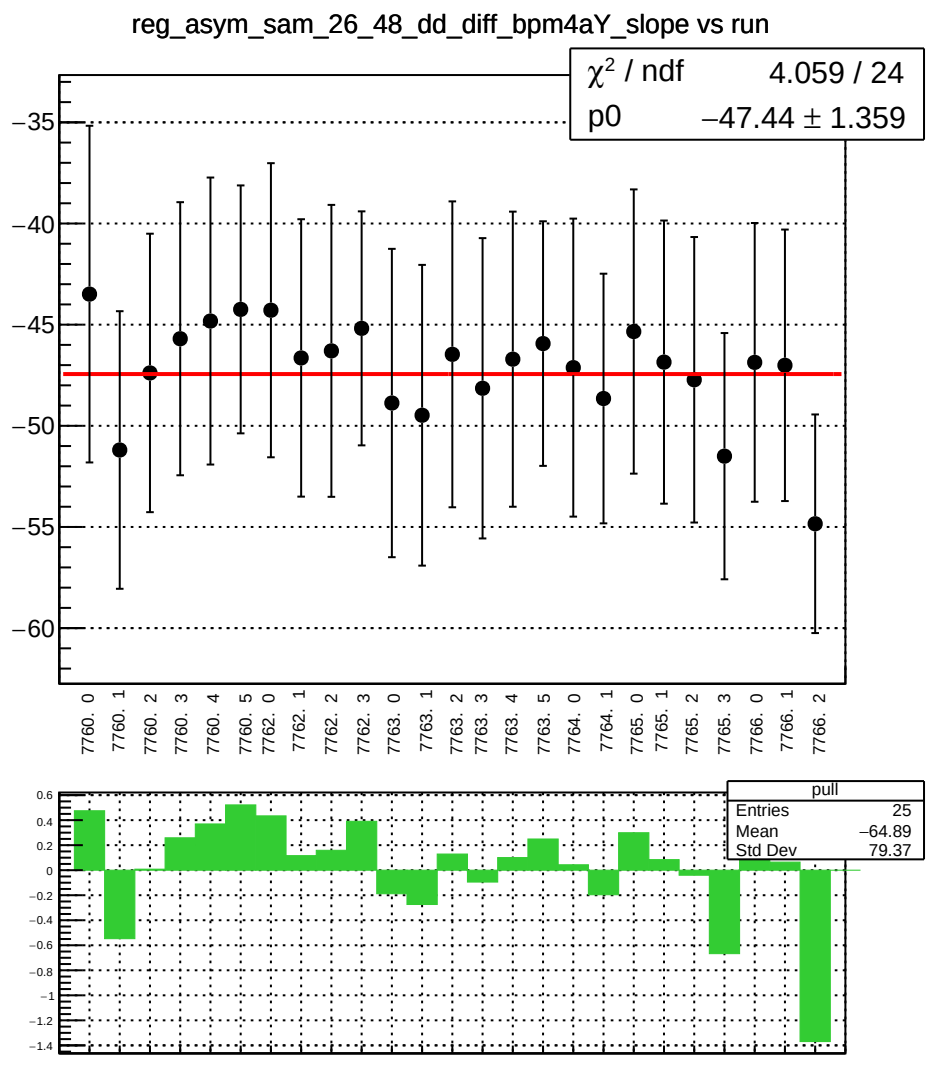

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.1436 / 24
p0 −66.92 ± 7.081
−20
−40
−60
−80
−100
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −24.54
Std Dev 41.57
0.25
0.2
0.15
0.1
0.05
0
−0.05
−0.1

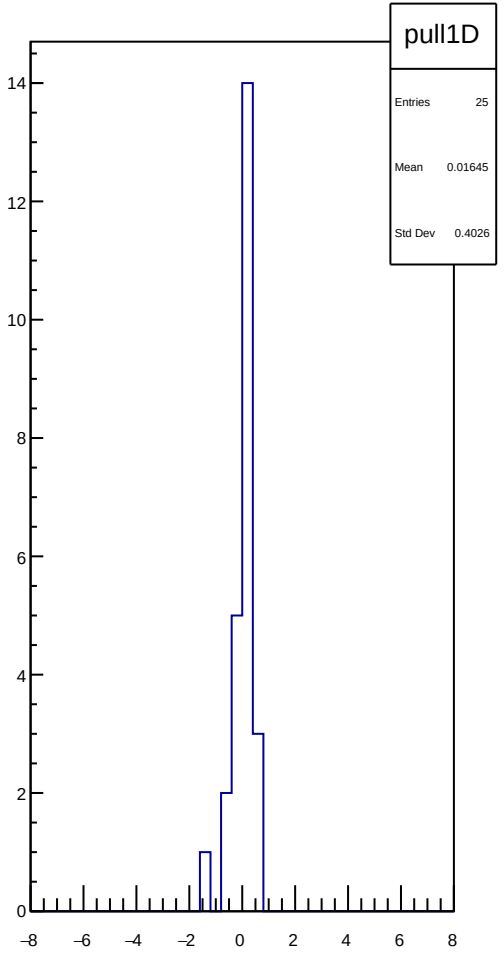

pull1D
Entries 25
Mean −0.004023
Std Dev 0.07568
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

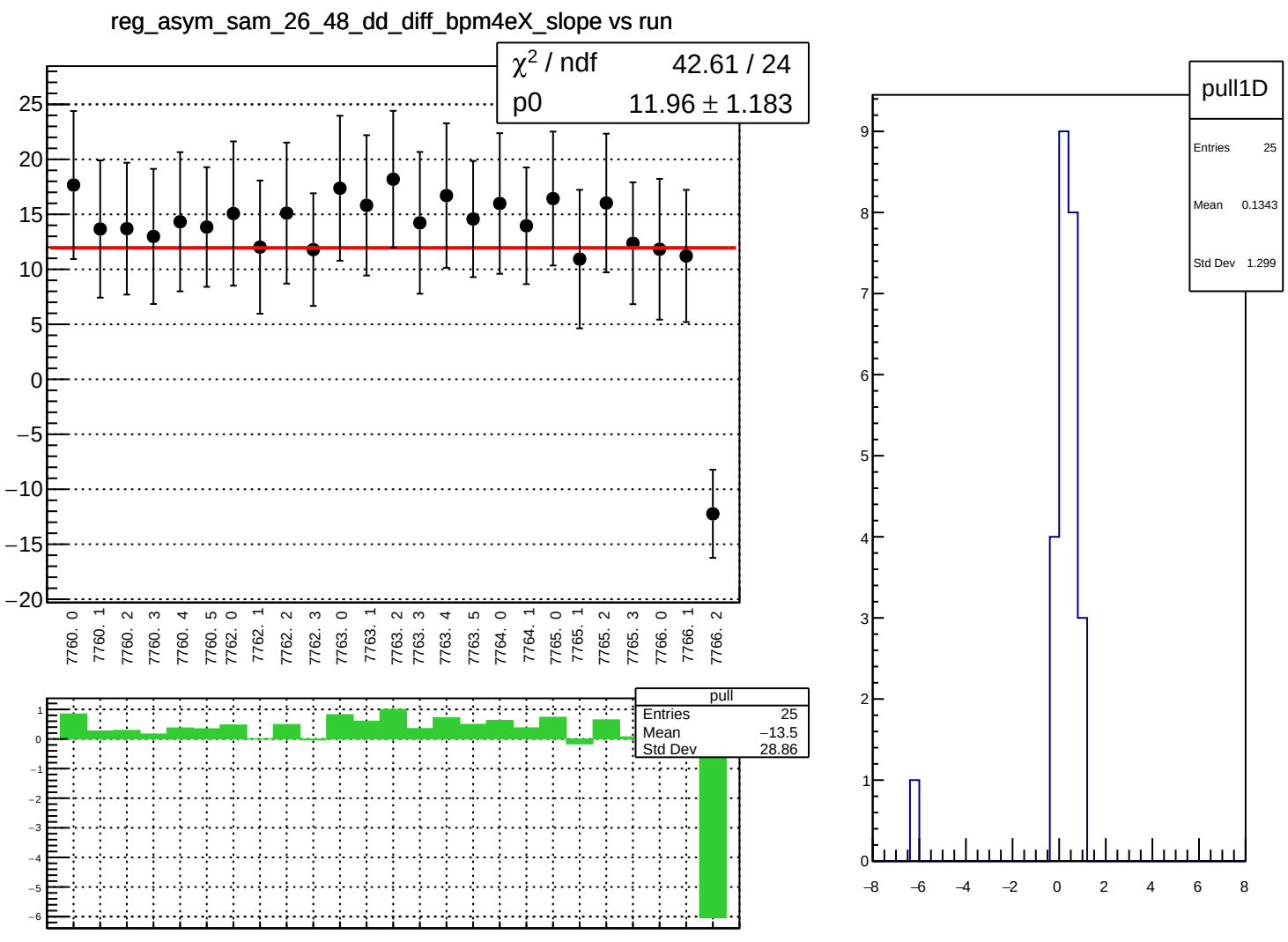

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.1371 / 24
p0 27.65 ± 9.155
80
60
40
20
0
−20
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 89.38
Std Dev 73.74
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull1D
Entries 25
Mean 0.0009392
Std Dev 0.07404
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

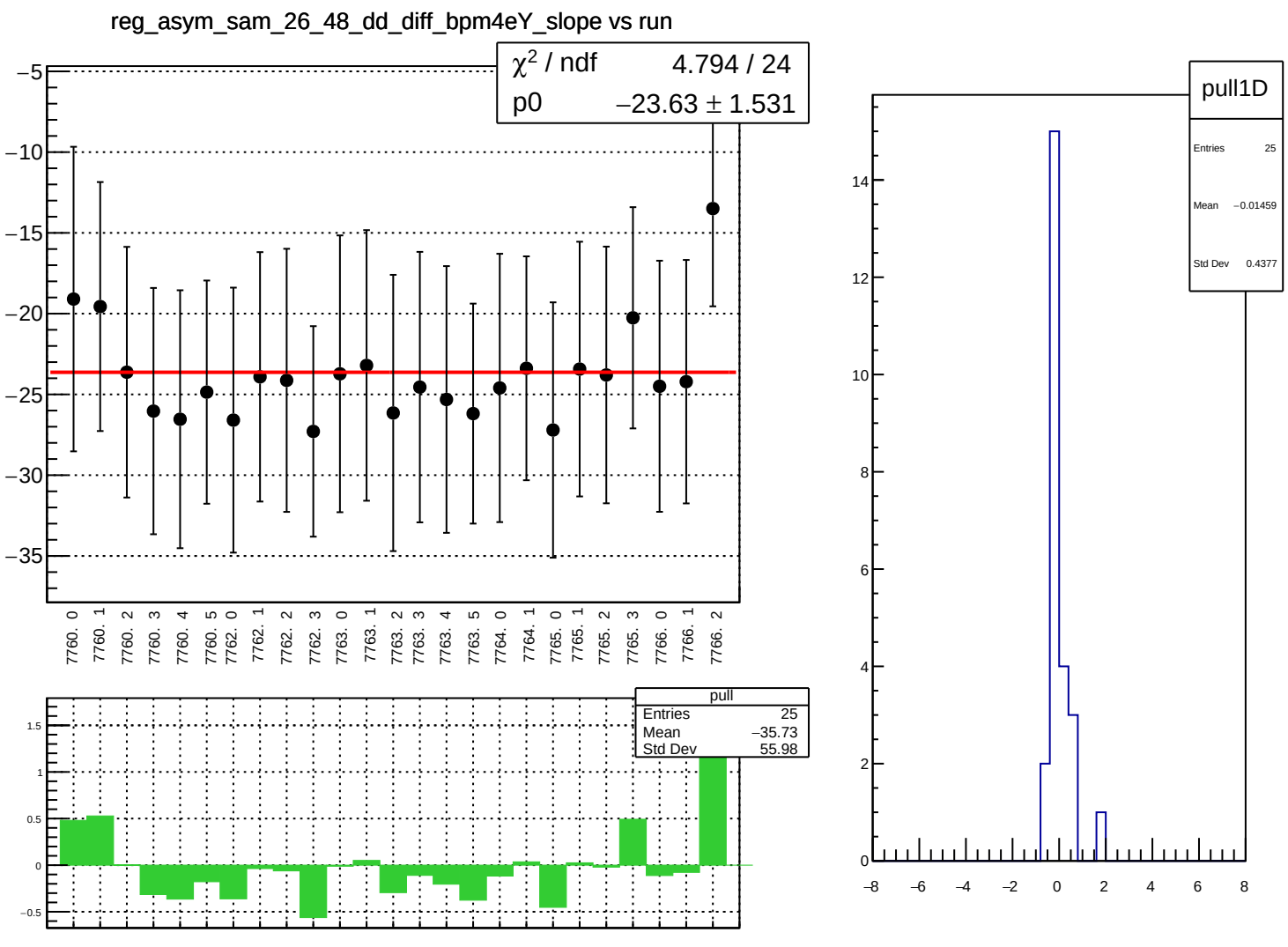

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 0.184 / 24
p0 0.07493 ± 0.2509
1.5
1
0.5
0
−0.5
−1
−1.5
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 4.689
Std Dev 13.23
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 25
Mean 0.001073
Std Dev 0.08577
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

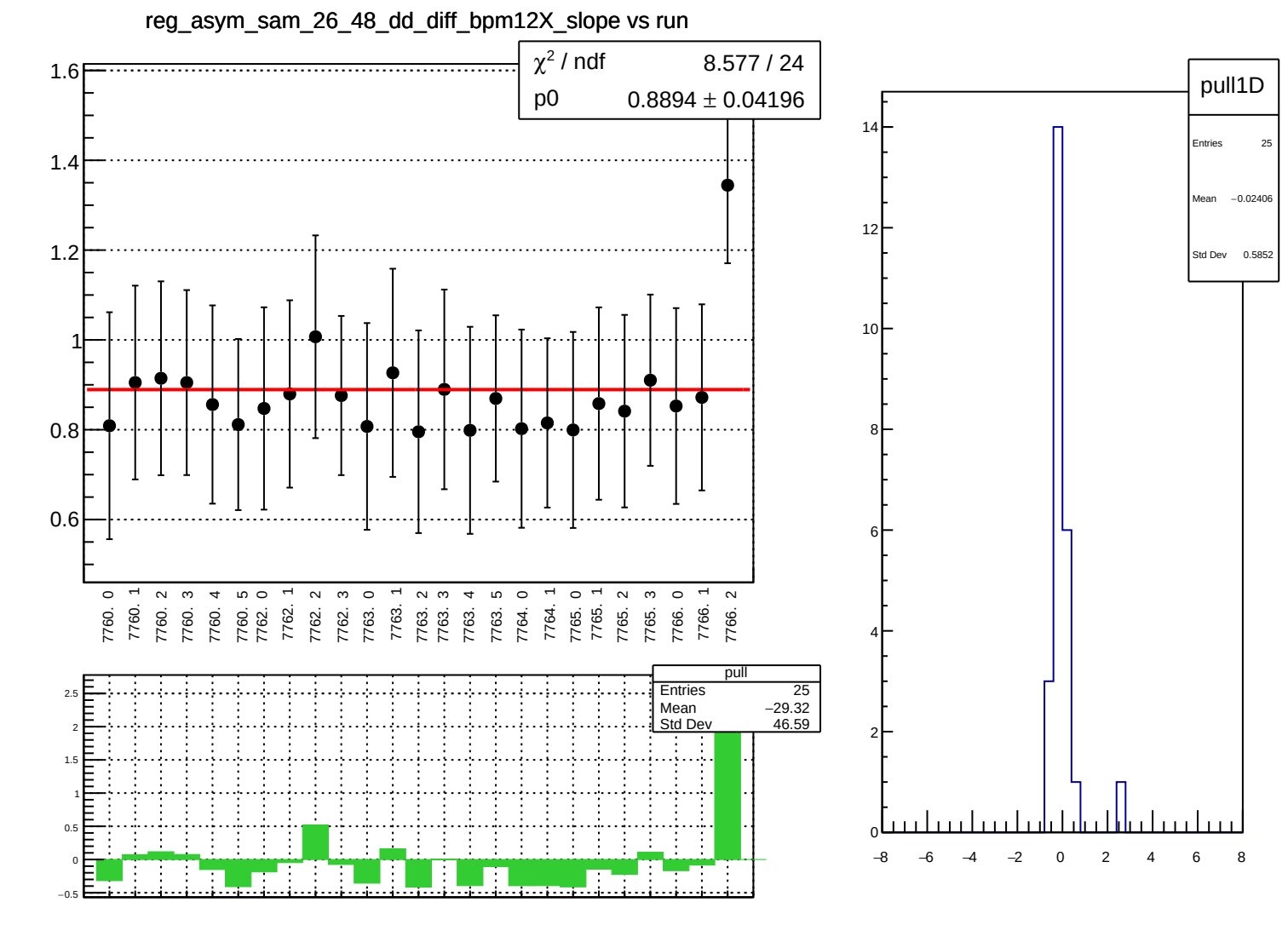

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 33.71 / 24
p0 6.422 ± 1.277
35
30
25
20
15
10
5
0
−5
−10
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −13.57
Std Dev 29.44
5
4
3
2
1
0
−1
pull1D
Entries 25
Mean −0.1107
Std Dev 1.156
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

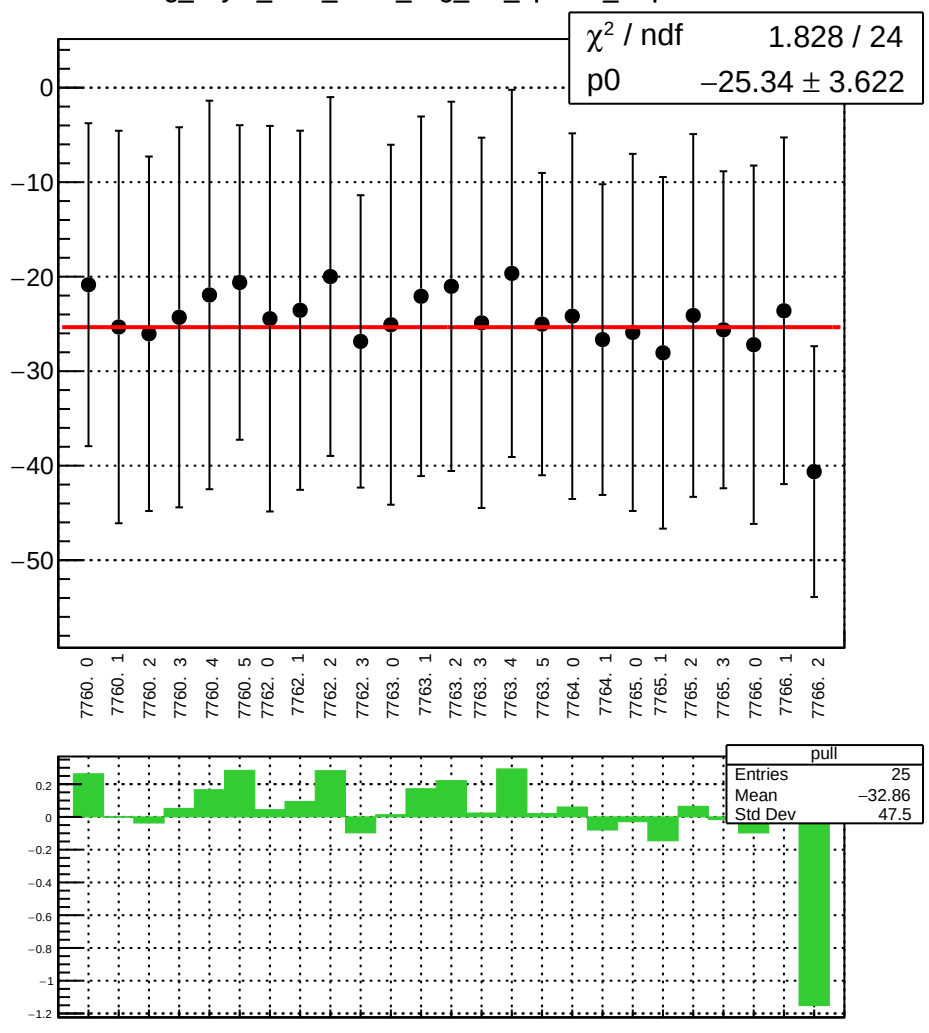

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.059 / 24
p0 −47.44 ± 1.359
−35
−40
−45
−50
−55
−60
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −64.89
Std Dev 79.37
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4

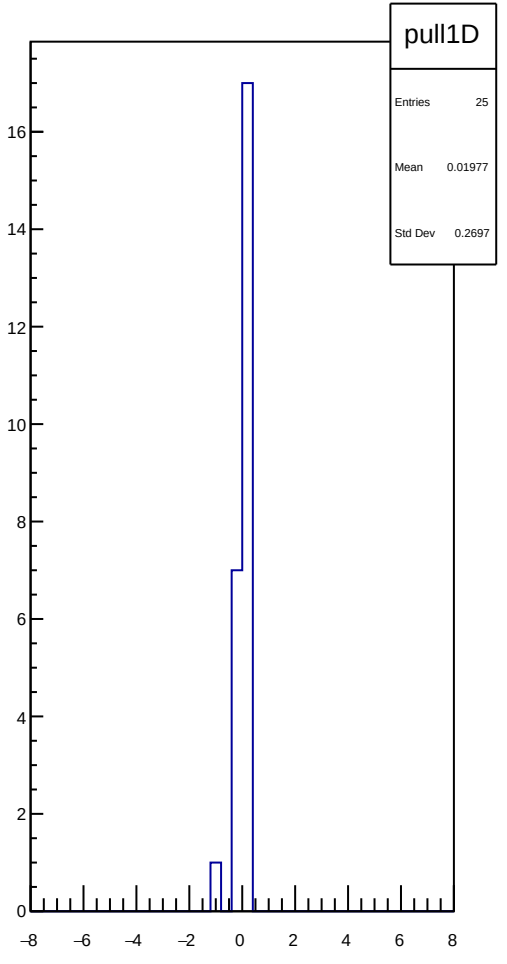

pull1D
Entries 25
Mean 0.01645
Std Dev 0.4026
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

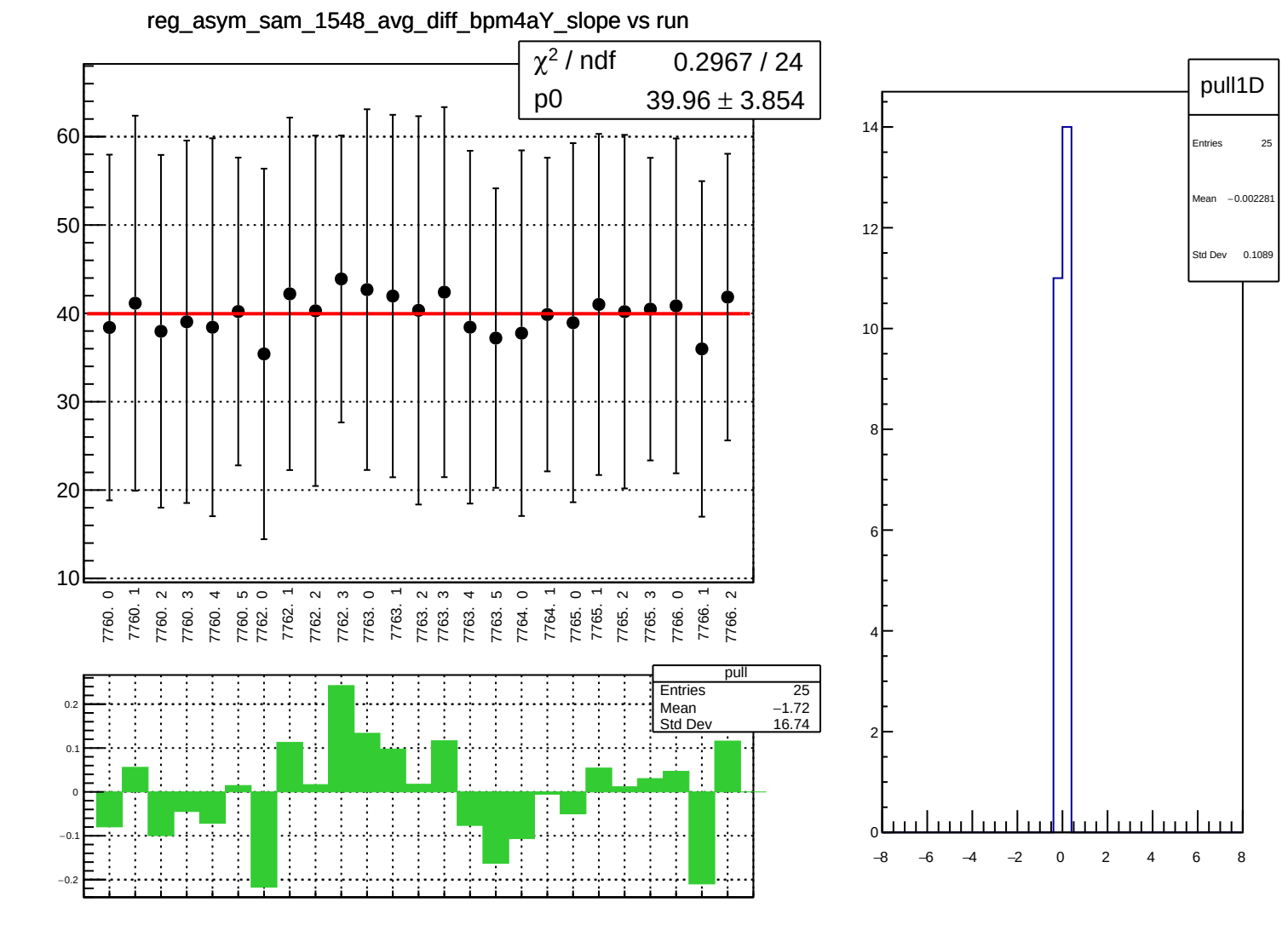

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 42.61 / 24
p0 11.96 ± 1.183
25
20
15
10
5
0
−5
−10
−15
−20
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −13.5
Std Dev 28.86
1
0
−1
−2
−3
−4
−5
−6
pull1D
Entries 25
Mean 0.1343
Std Dev 1.299
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

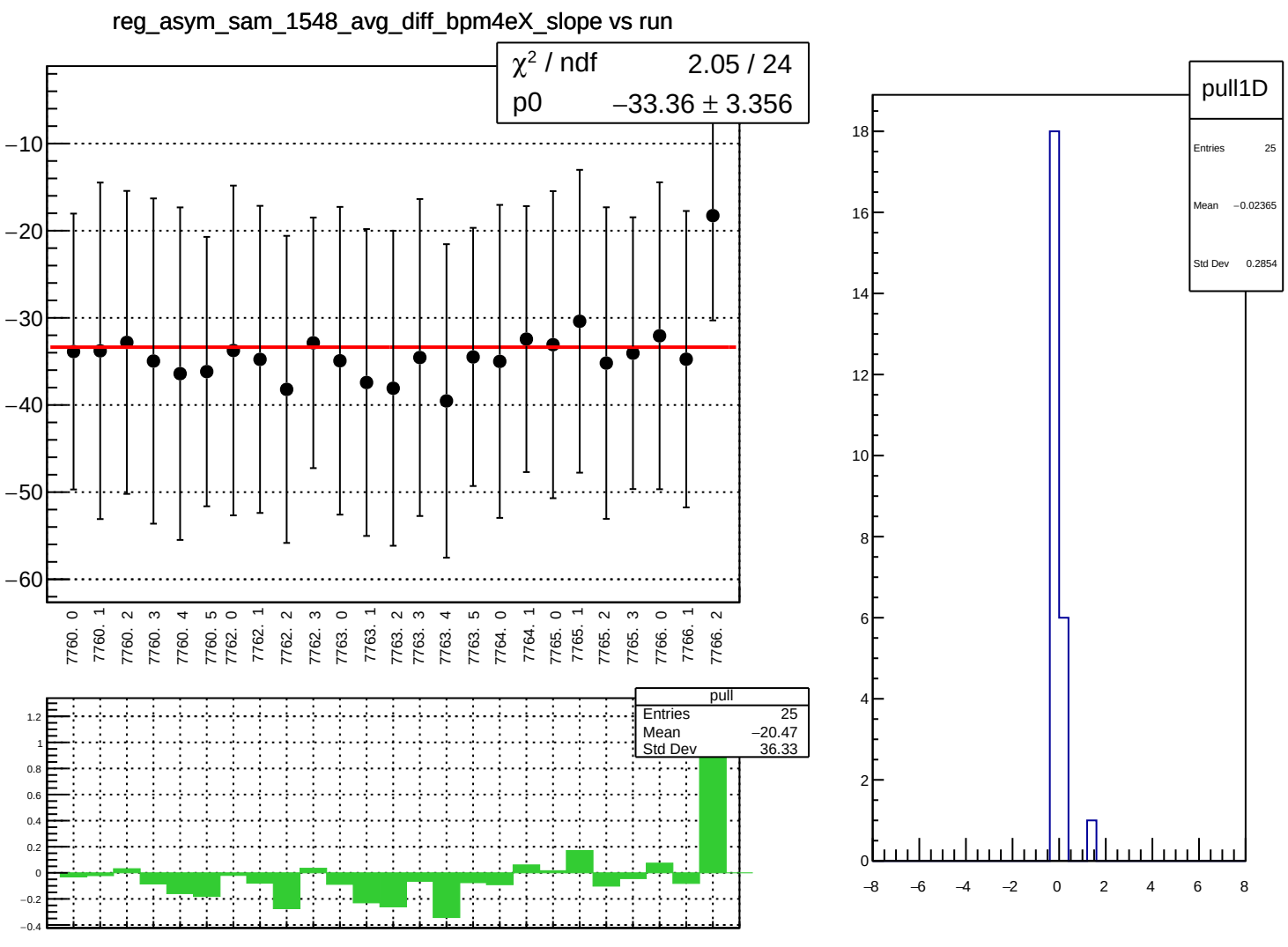

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.794 / 24
p0 −23.63 ± 1.531
−5
−10
−15
−20
−25
−30
−35
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −35.73
Std Dev 55.98
1.5
1
0.5
0
−0.5
pull1D
Entries 25
Mean −0.01459
Std Dev 0.4377
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

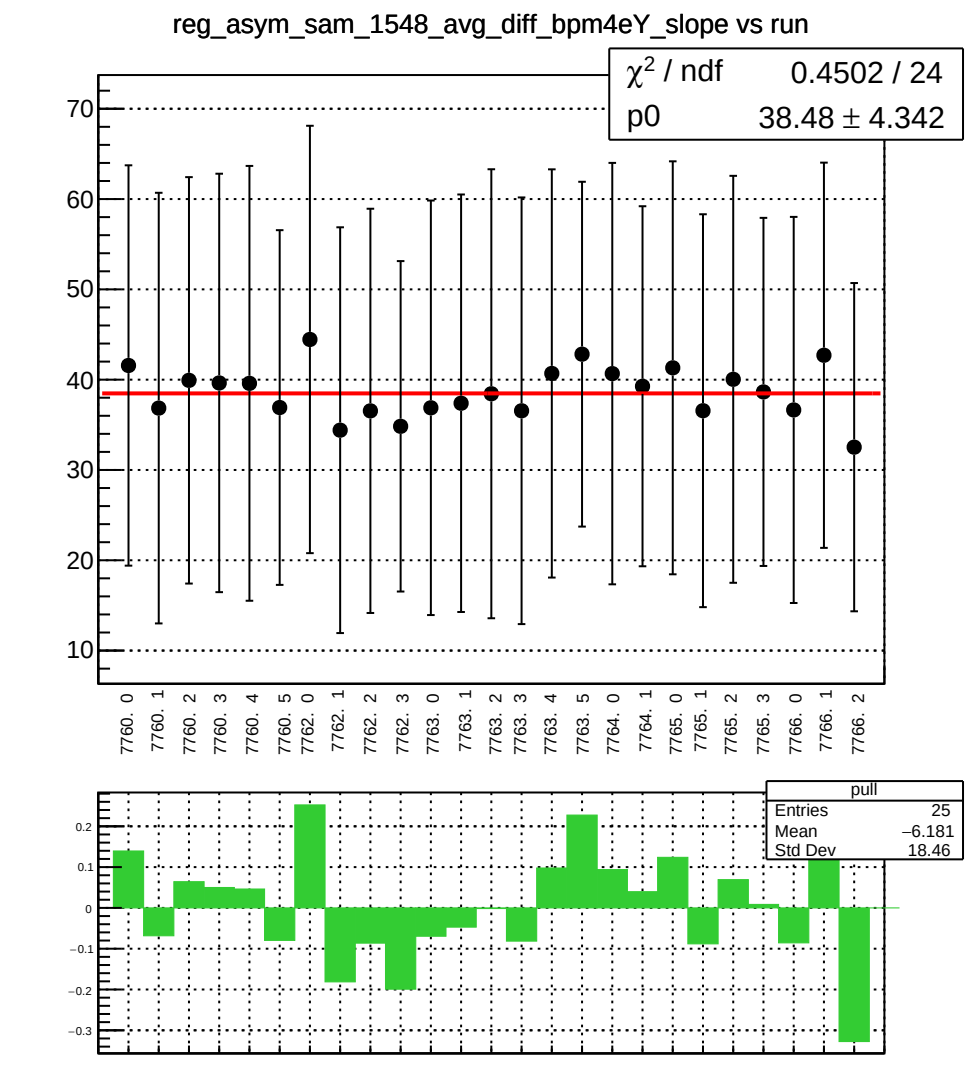

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 8.577 / 24
p0 0.8894 ± 0.04196
1.6
1.4
1.2
1
0.8
0.6
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −29.32
Std Dev 46.59
2.5
2
1.5
1
0.5
0
−0.5
pull1D
Entries 25
Mean −0.02406
Std Dev 0.5852
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

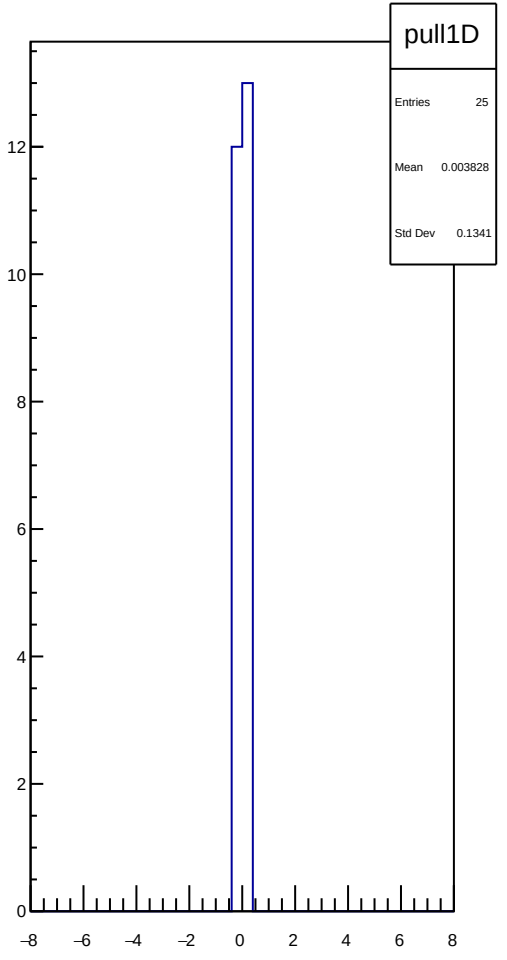

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 1.828 / 24
p0 −25.34 ± 3.622
0
−10
−20
−30
−40
−50
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −32.86
Std Dev 47.5
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

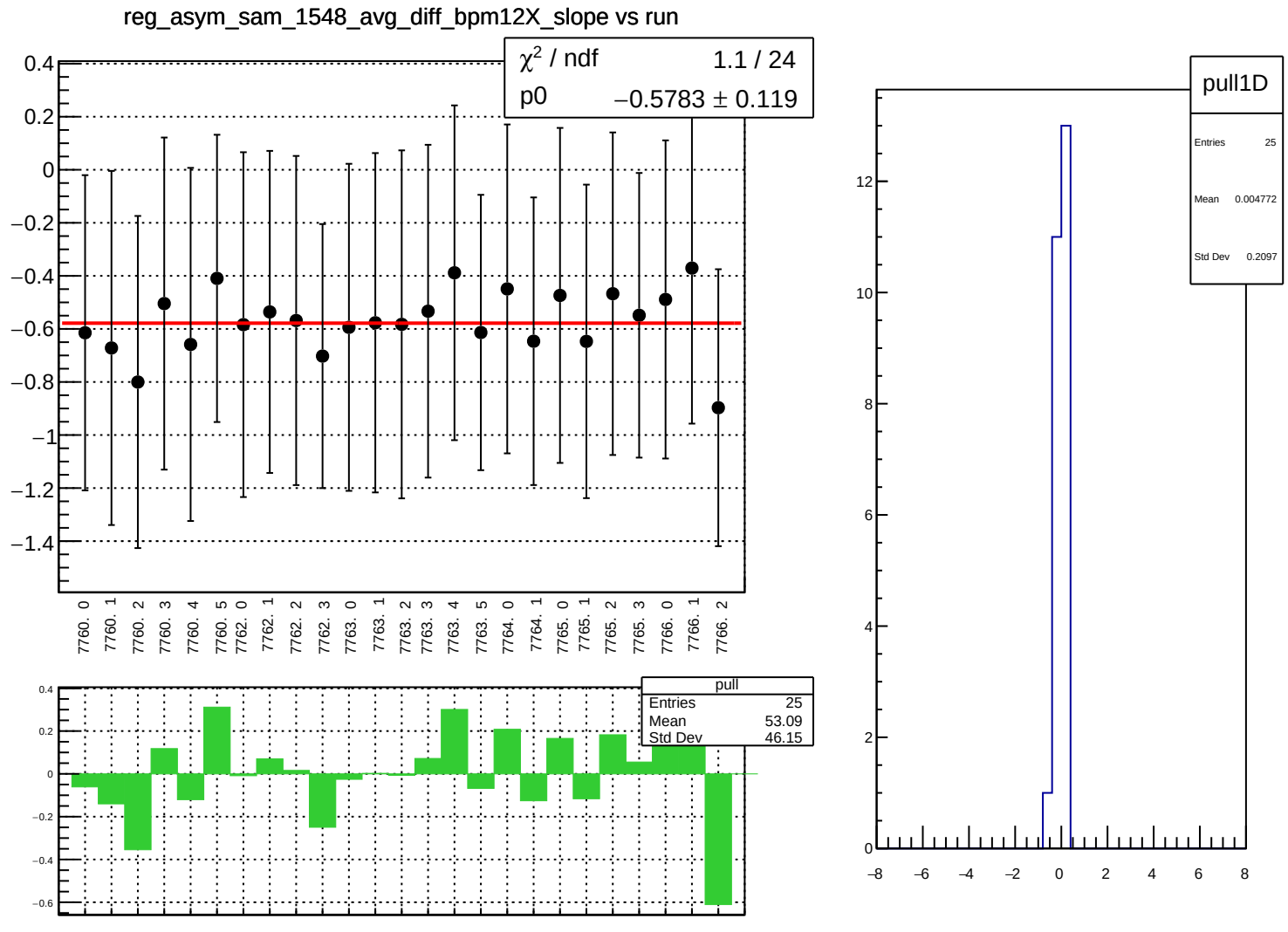

pull1D
Entries 25
Mean 0.01977
Std Dev 0.2697
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

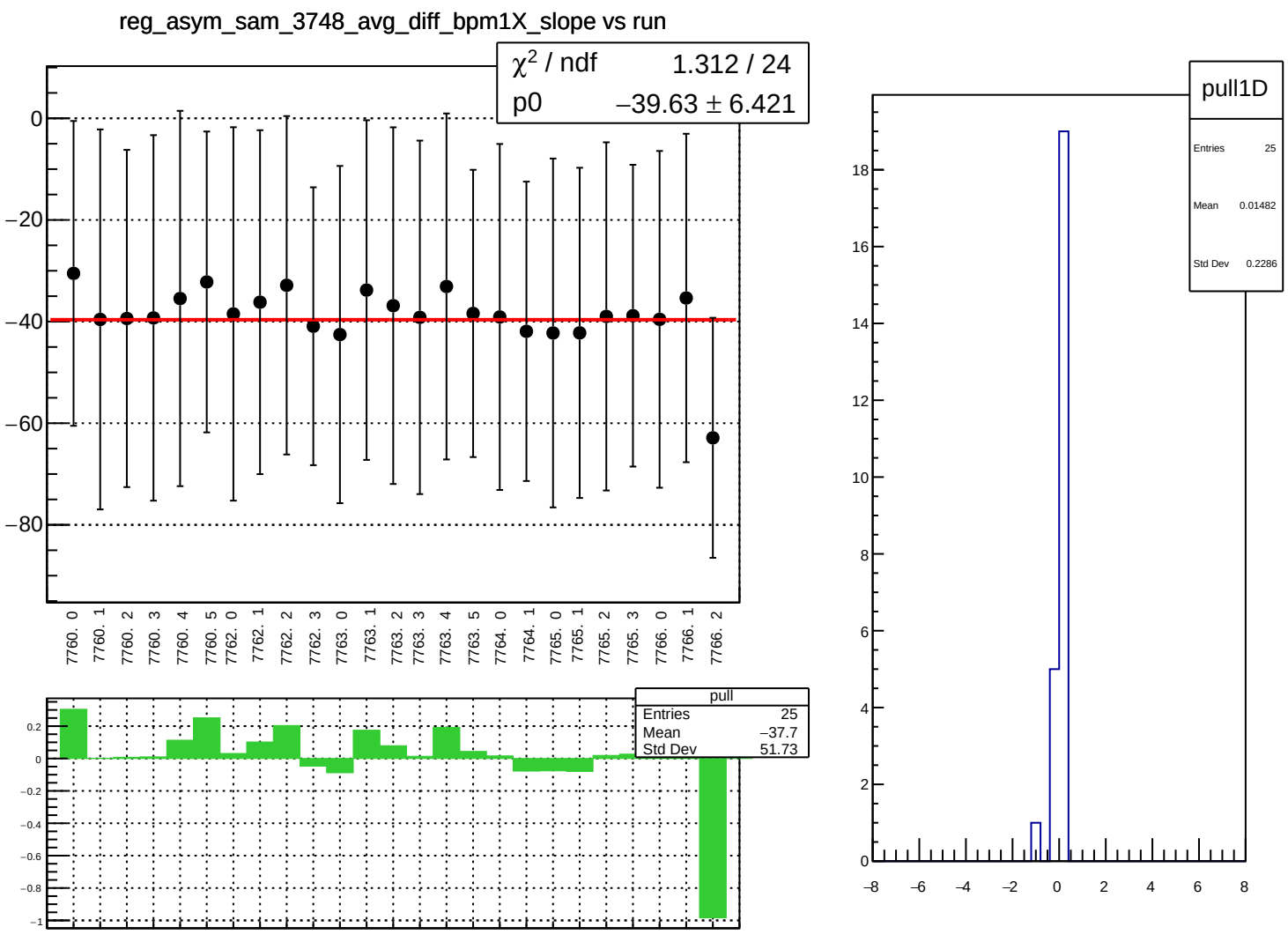

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.2967 / 24
p0 39.96 ± 3.854
60
50
40
30
20
10
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −1.72
Std Dev 16.74
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 25
Mean −0.002281
Std Dev 0.1089
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

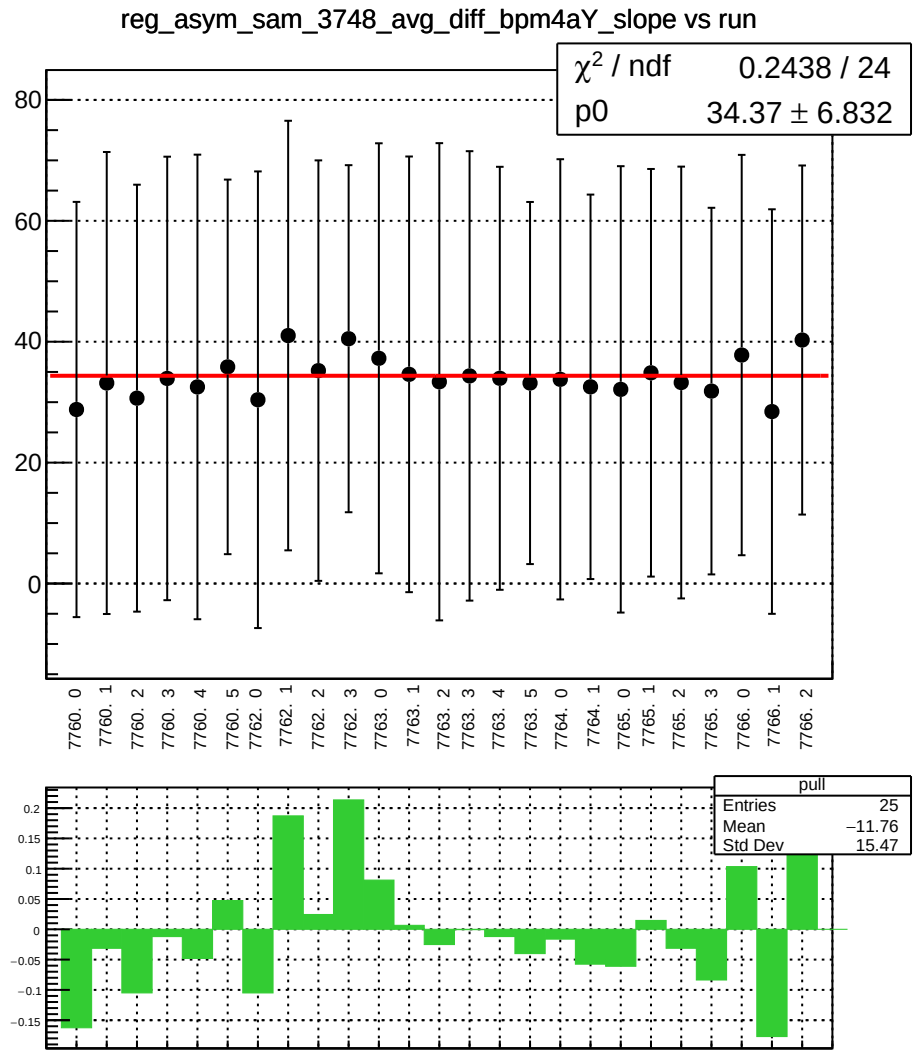

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.05 / 24
p0 −33.36 ± 3.356
−10
−20
−30
−40
−50
−60
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −20.47
Std Dev 36.33
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 25
Mean −0.02365
Std Dev 0.2854
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

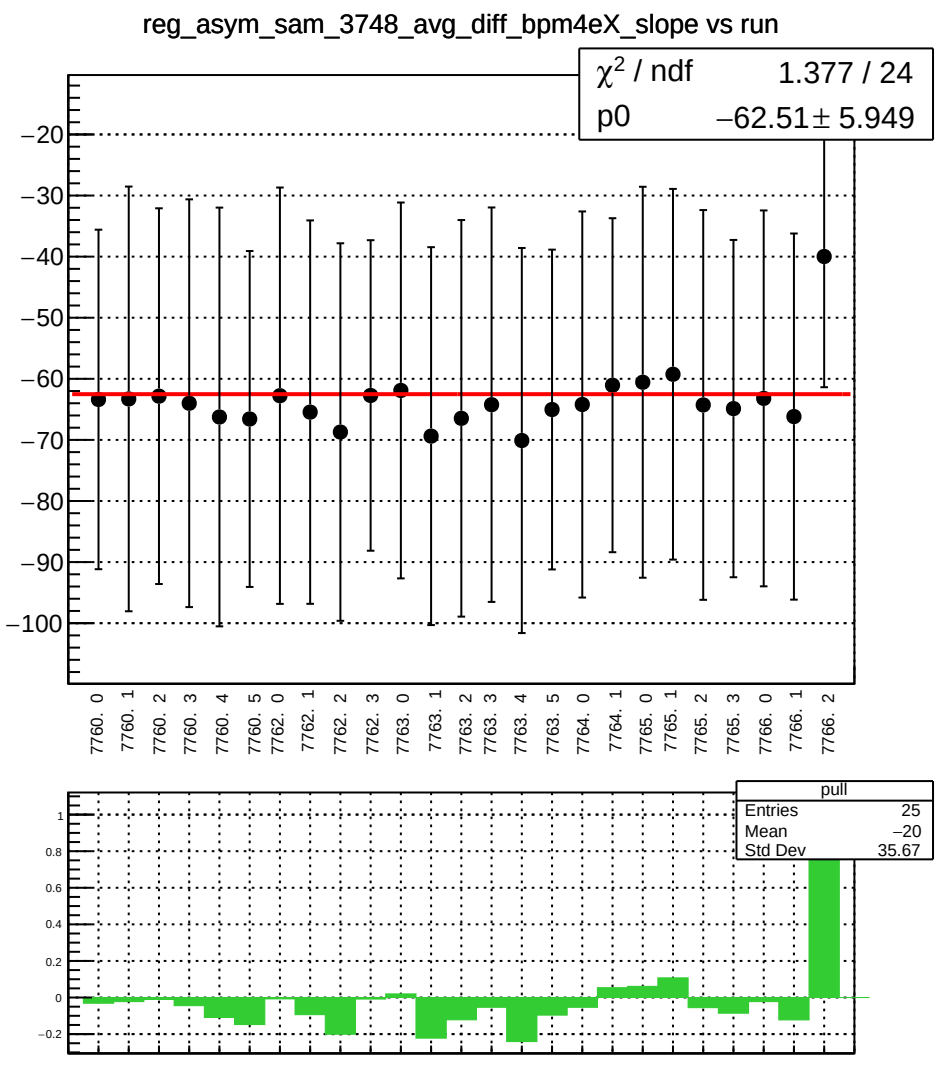

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.4502 / 24
p0 38.48 ± 4.342
70
60
50
40
30
20
10
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −6.181
Std Dev 18.46
0.2
0.1
0
−0.1
−0.2
−0.3

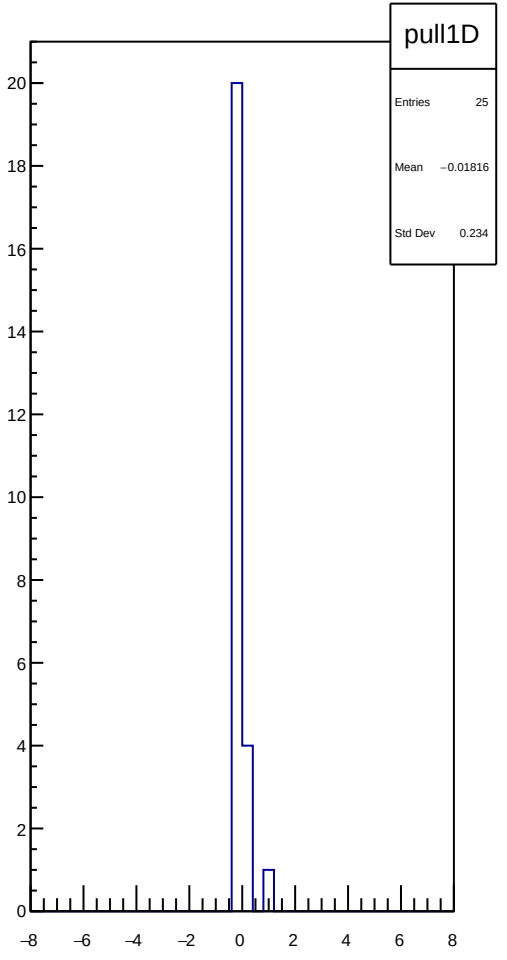

pull1D
Entries 25
Mean 0.003828
Std Dev 0.1341
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

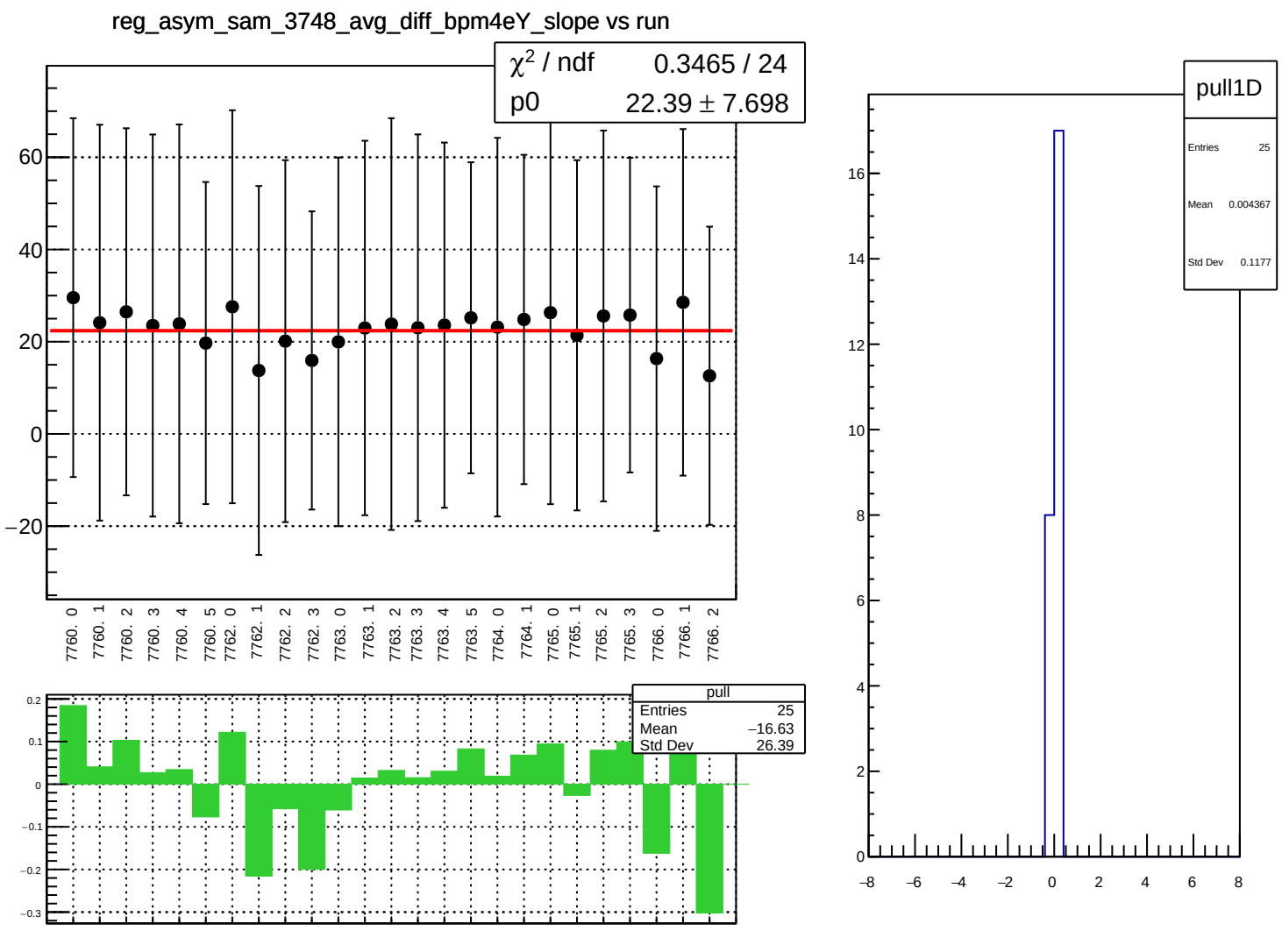

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 1.1 / 24
p0 −0.5783 ± 0.119
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 53.09
Std Dev 46.15
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 25
Mean 0.004772
Std Dev 0.2097
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

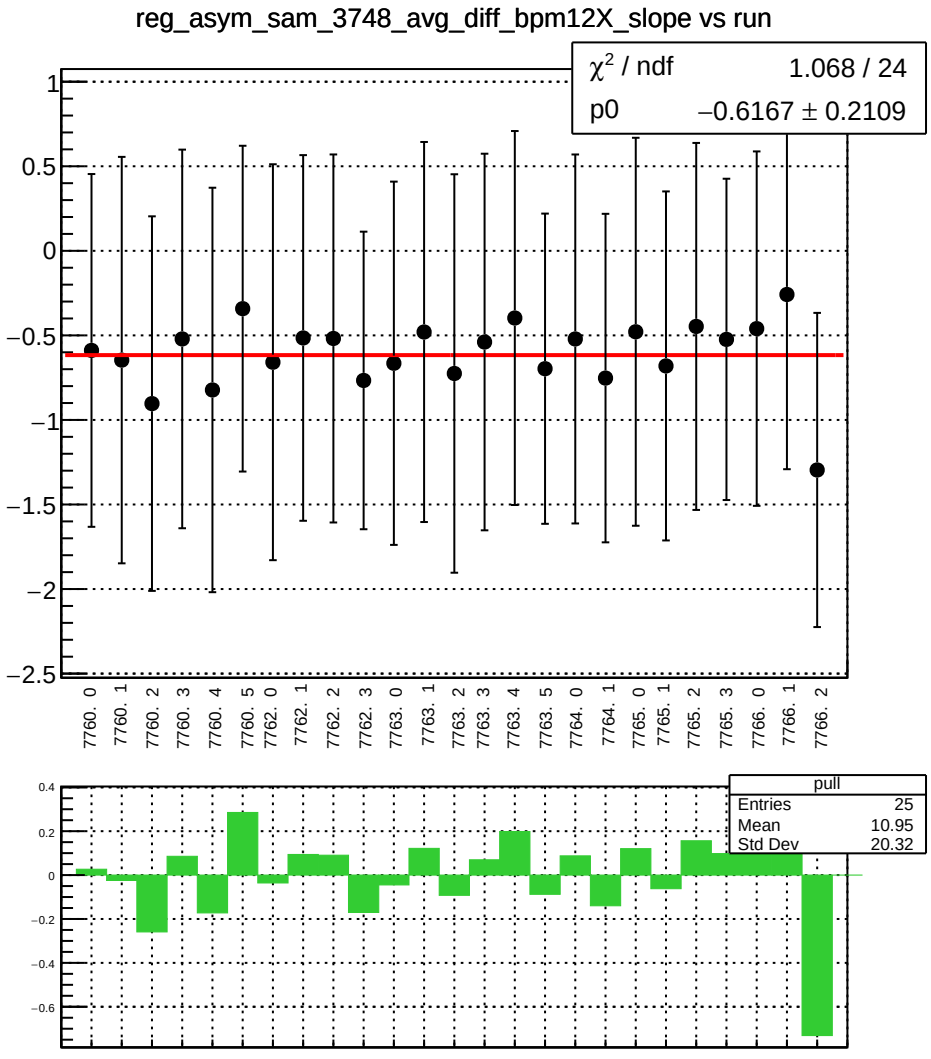

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 1.312 / 24
p0 −39.63 ± 6.421
0
−20
−40
−60
−80
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −37.7
Std Dev 51.73
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 25
Mean 0.01482
Std Dev 0.2286
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

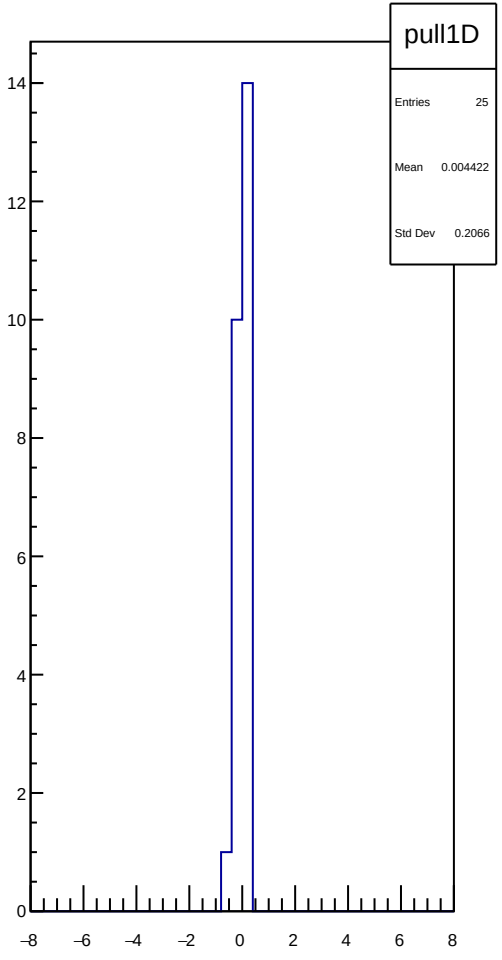

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.2438 / 24
p0 34.37 ± 6.832
80
60
40
20
0
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −11.76
Std Dev 15.47
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull1D
Entries 25
Mean −0.003418
Std Dev 0.0987
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

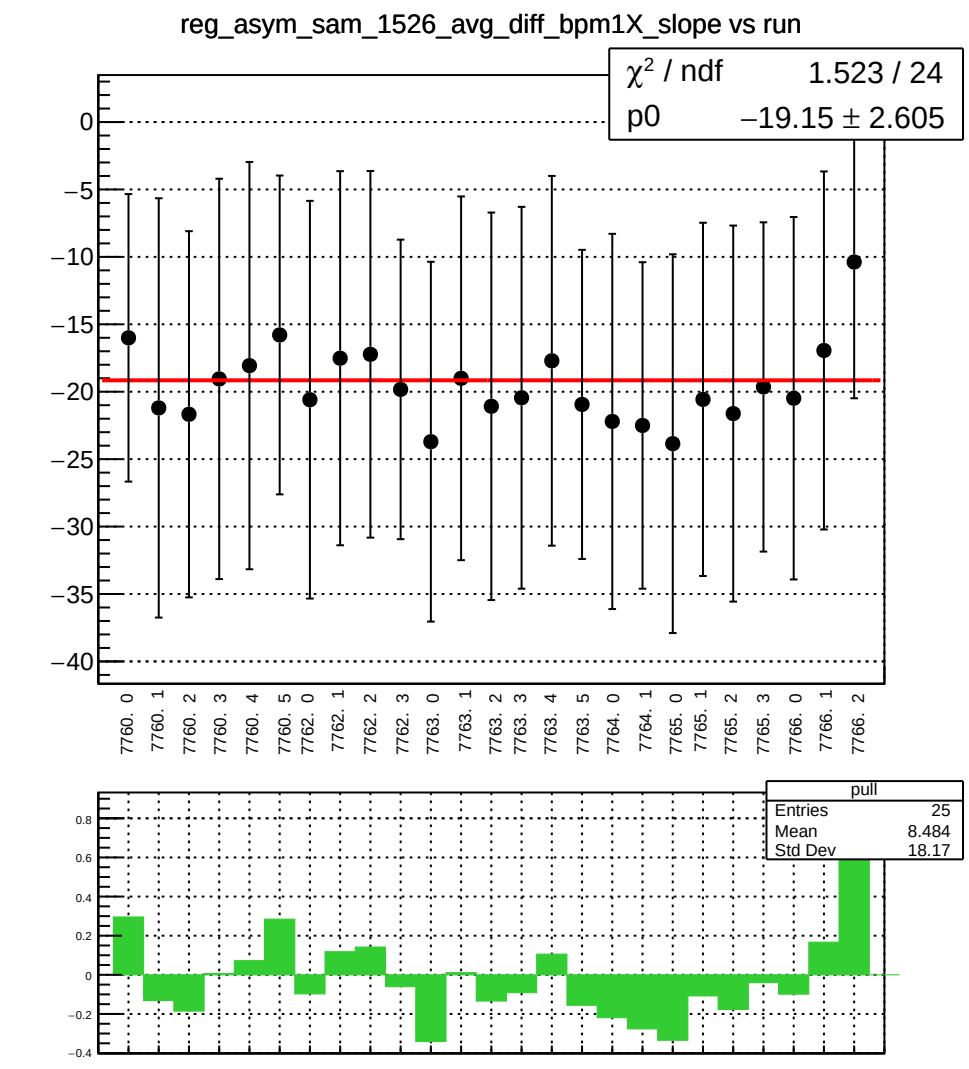

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.377 / 24
p0 −62.51 ± 5.949
−20
−30
−40
−50
−60
−70
−80
−90
−100
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −20
Std Dev 35.67
1
0.8
0.6
0.4
0.2
0
−0.2

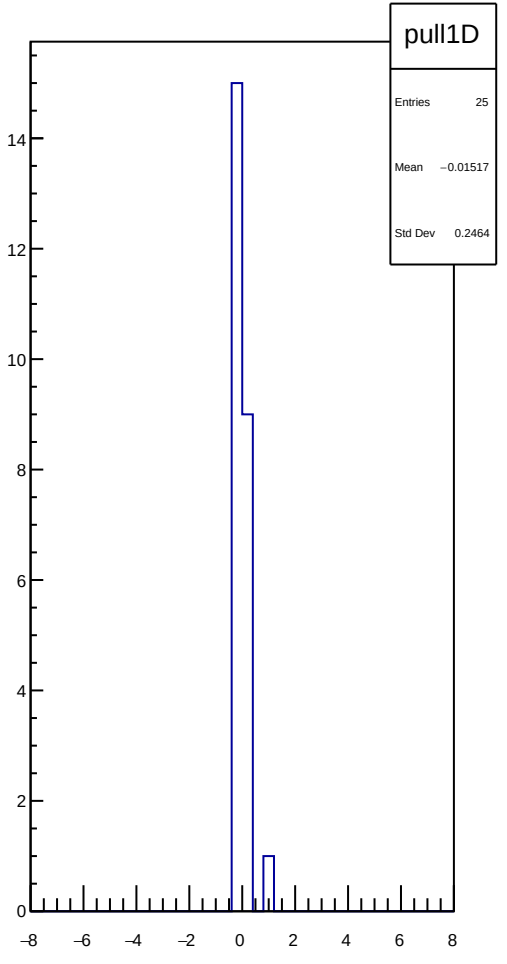

pull1D
Entries 25
Mean −0.01816
Std Dev 0.234
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

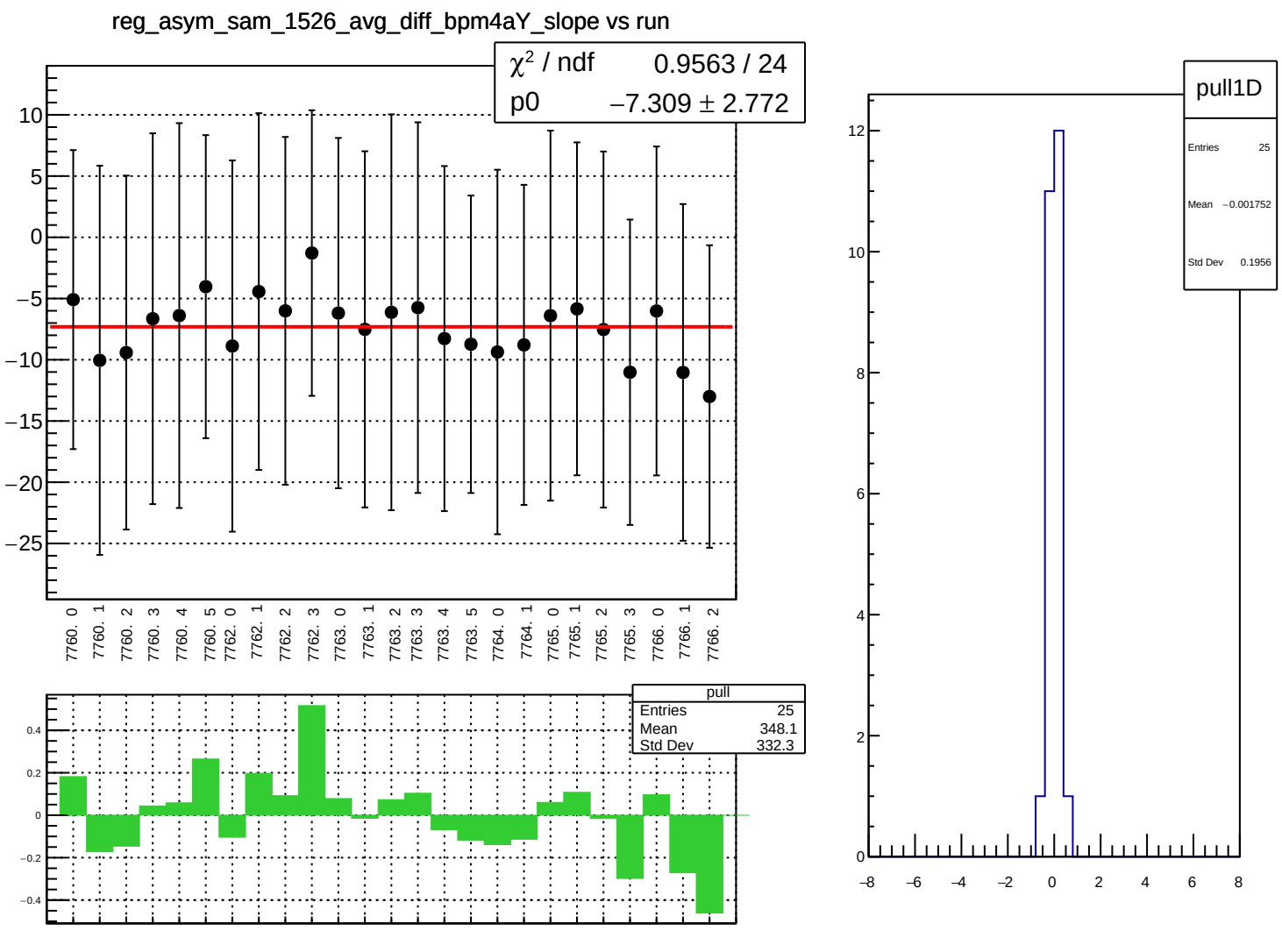

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.3465 / 24
p0 22.39 ± 7.698
60
40
20
0
−20
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −16.63
Std Dev 26.39
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 25
Mean 0.004367
Std Dev 0.1177
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

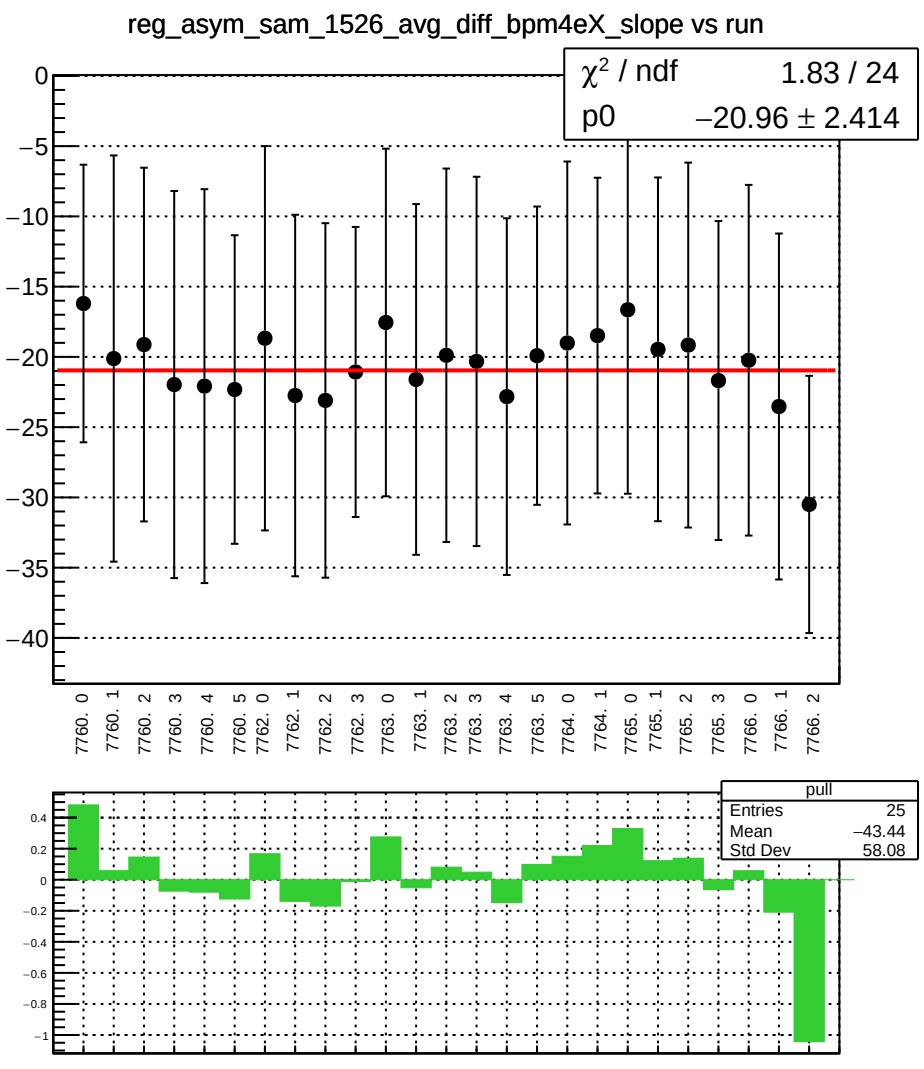

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 1.068 / 24
p0 −0.6167 ± 0.2109
pull
Entries 25
Mean 10.95
Std Dev 20.32

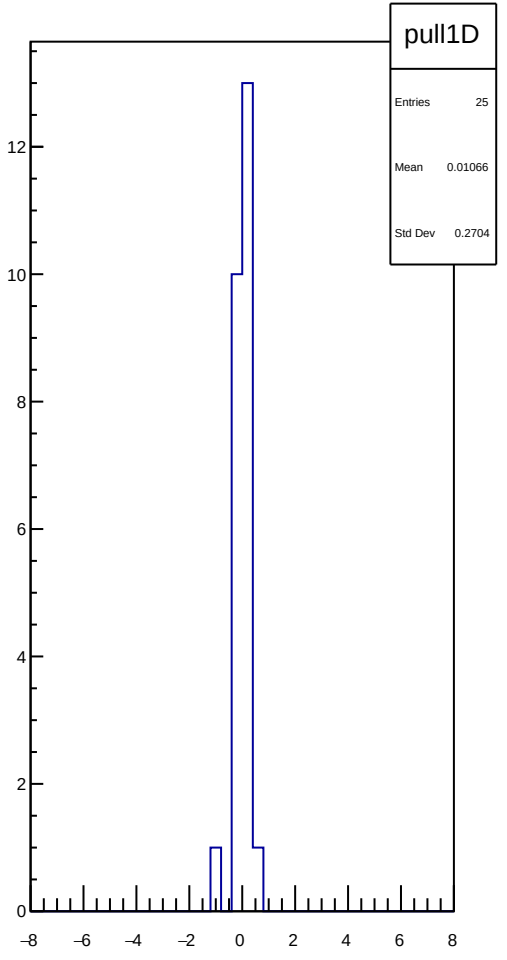

pull1D
Entries 25
Mean 0.004422
Std Dev 0.2066

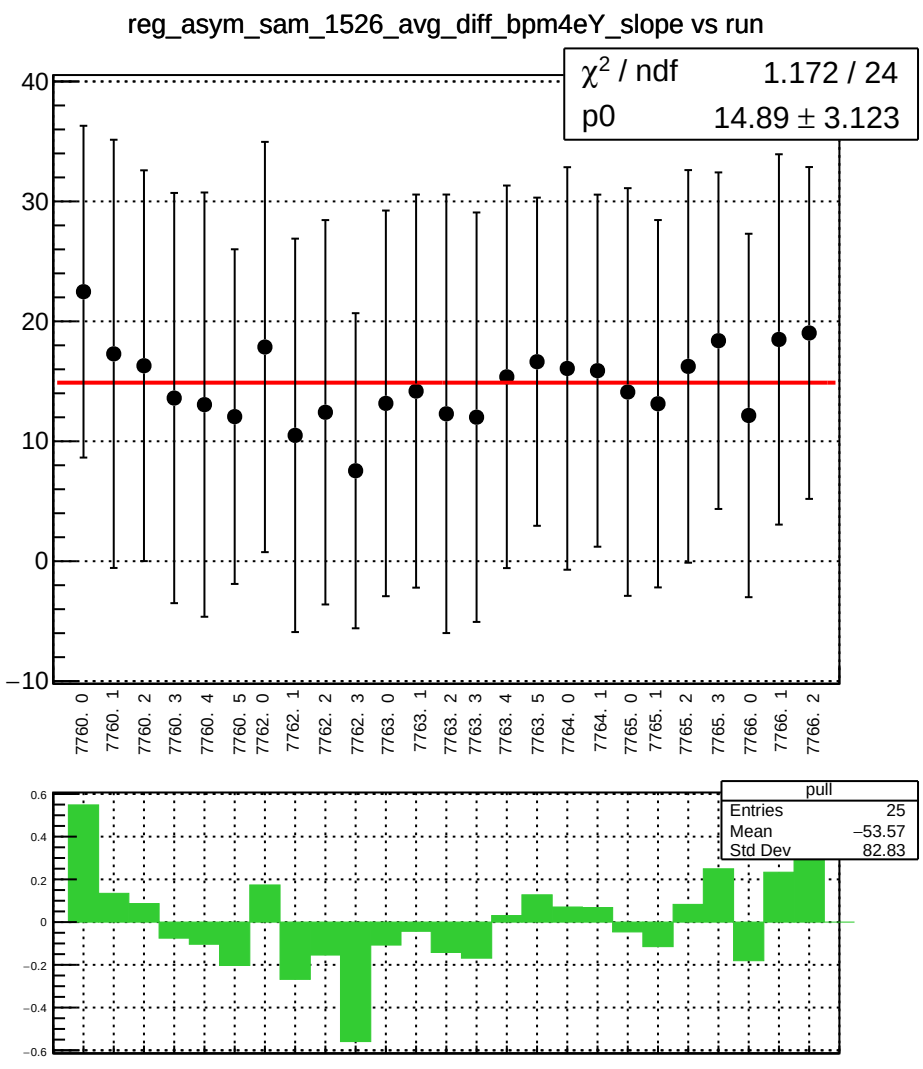

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 1.523 / 24
p0 −19.15 ± 2.605
0
−5
−10
−15
−20
−25
−30
−35
−40
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 8.484
Std Dev 18.17
0.8
0.6
0.4
0.2
0
−0.2
−0.4

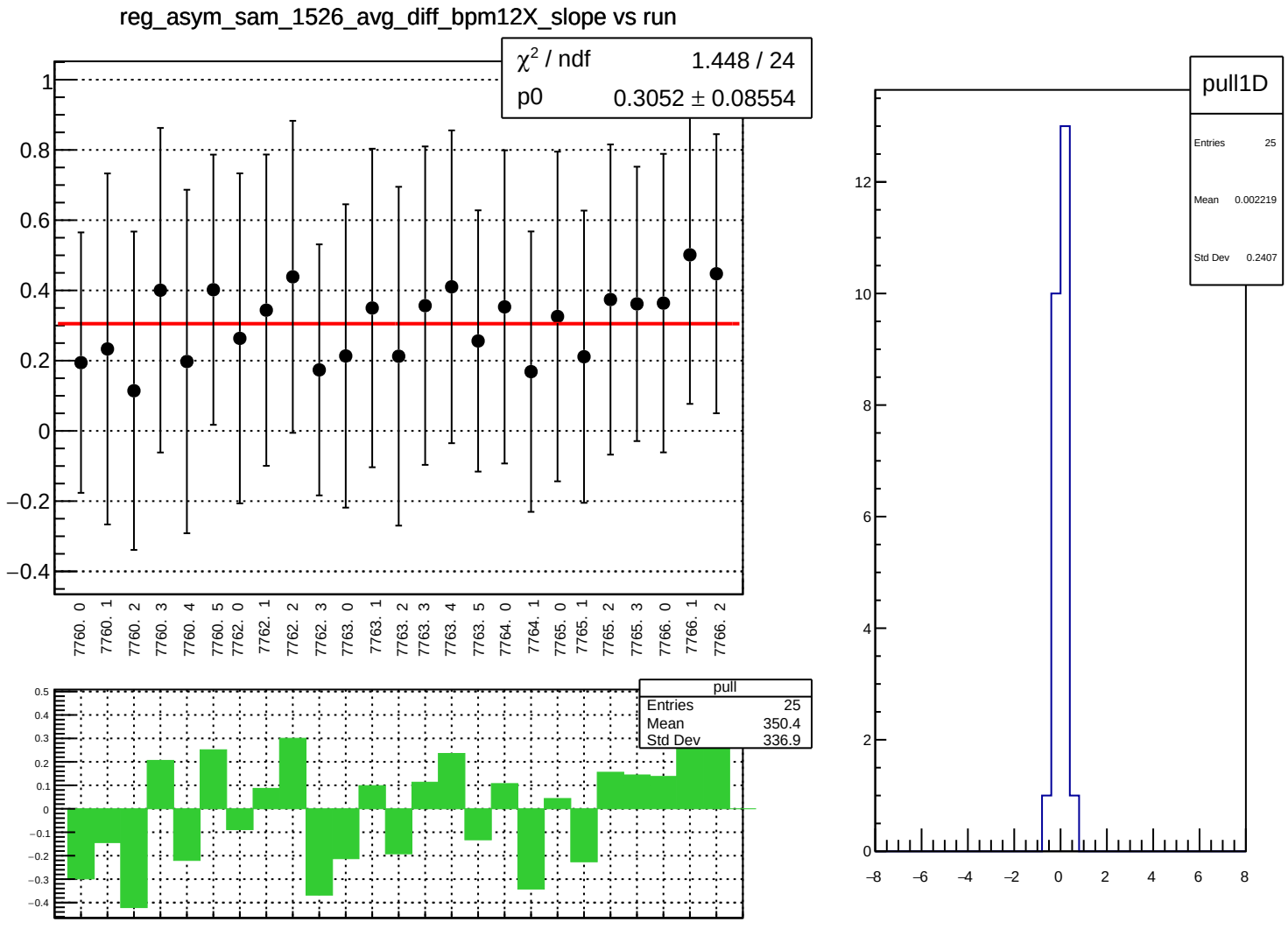

pull1D
Entries 25
Mean −0.01517
Std Dev 0.2464
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

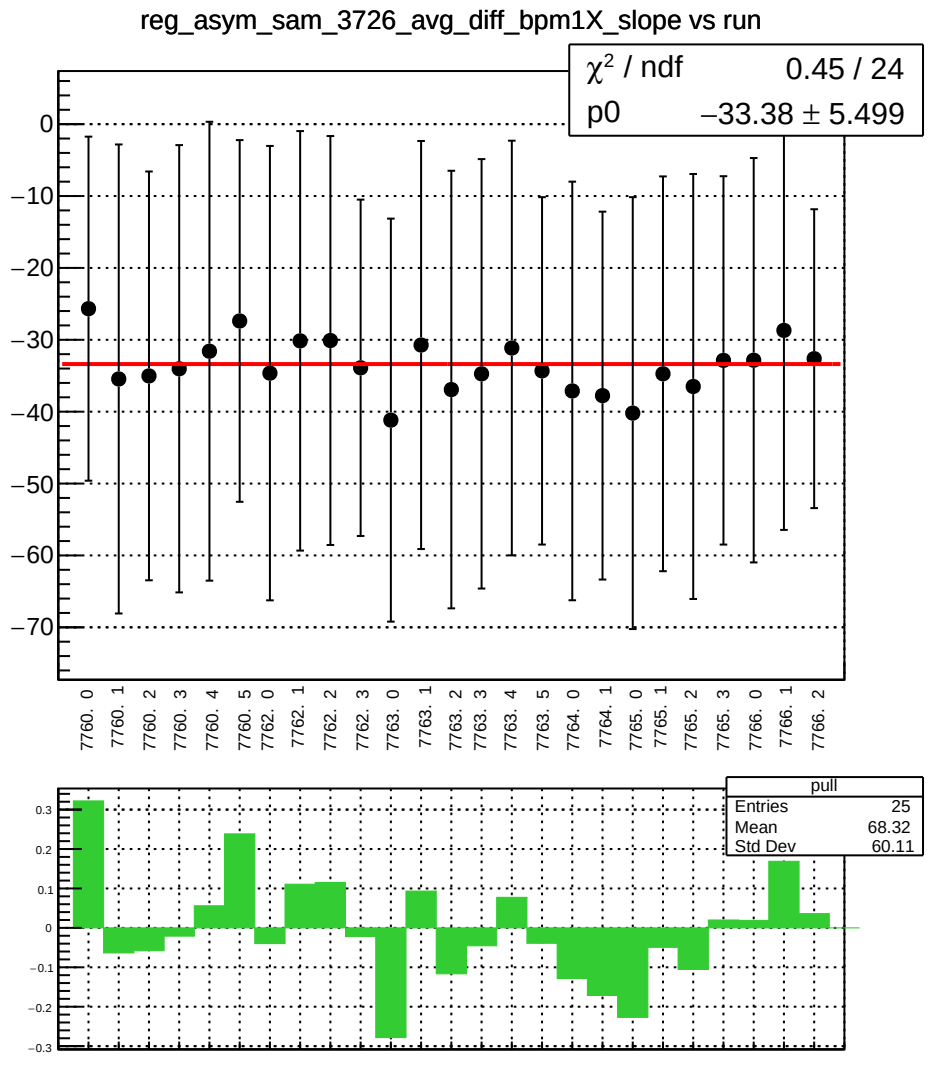

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.9563 / 24
p0 −7.309 ± 2.772
10
5
0
−5
−10
−15
−20
−25
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 348.1
Std Dev 332.3
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 25
Mean −0.001752
Std Dev 0.1956
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

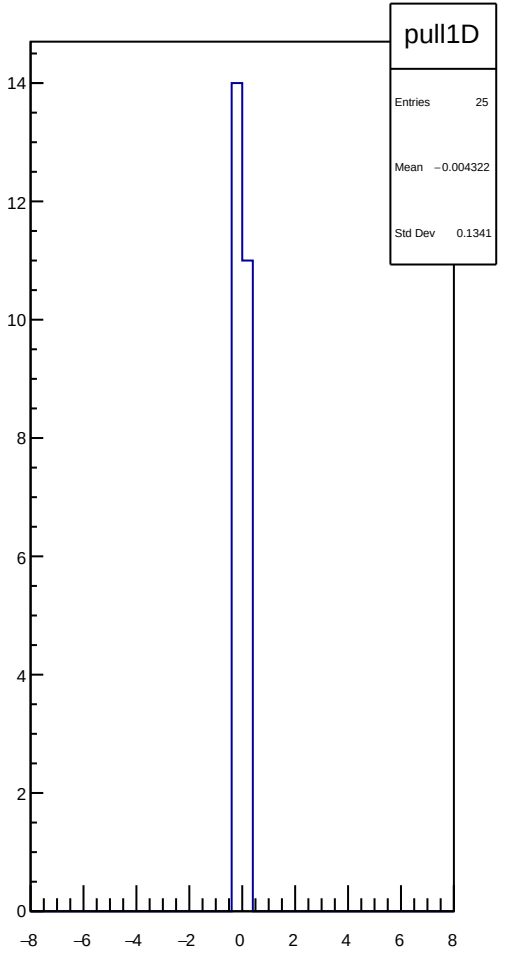

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.83 / 24
p0 −20.96 ± 2.414
0
−5
−10
−15
−20
−25
−30
−35
−40
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −43.44
Std Dev 58.08
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

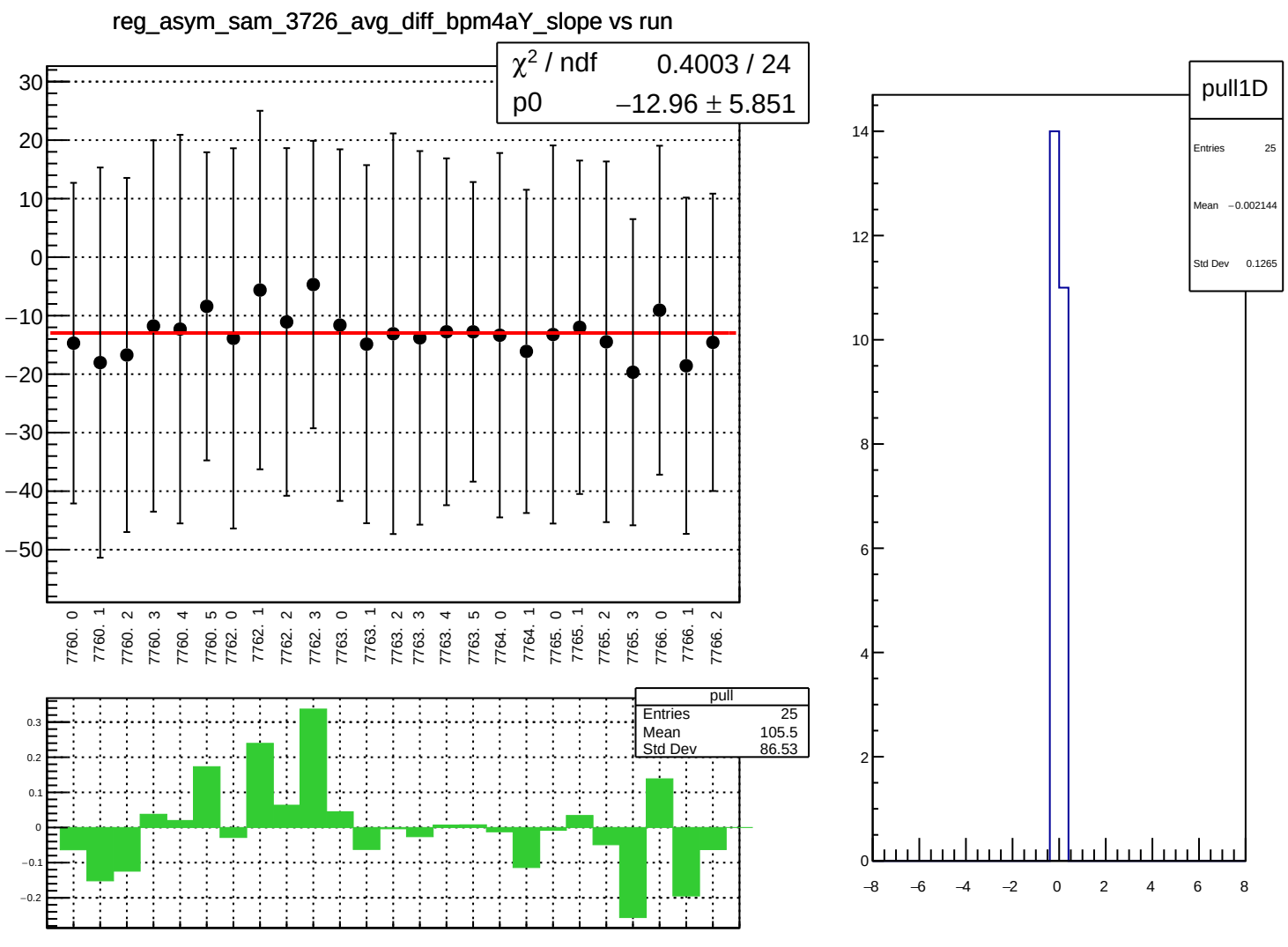

pull1D
Entries 25
Mean 0.01066
Std Dev 0.2704
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

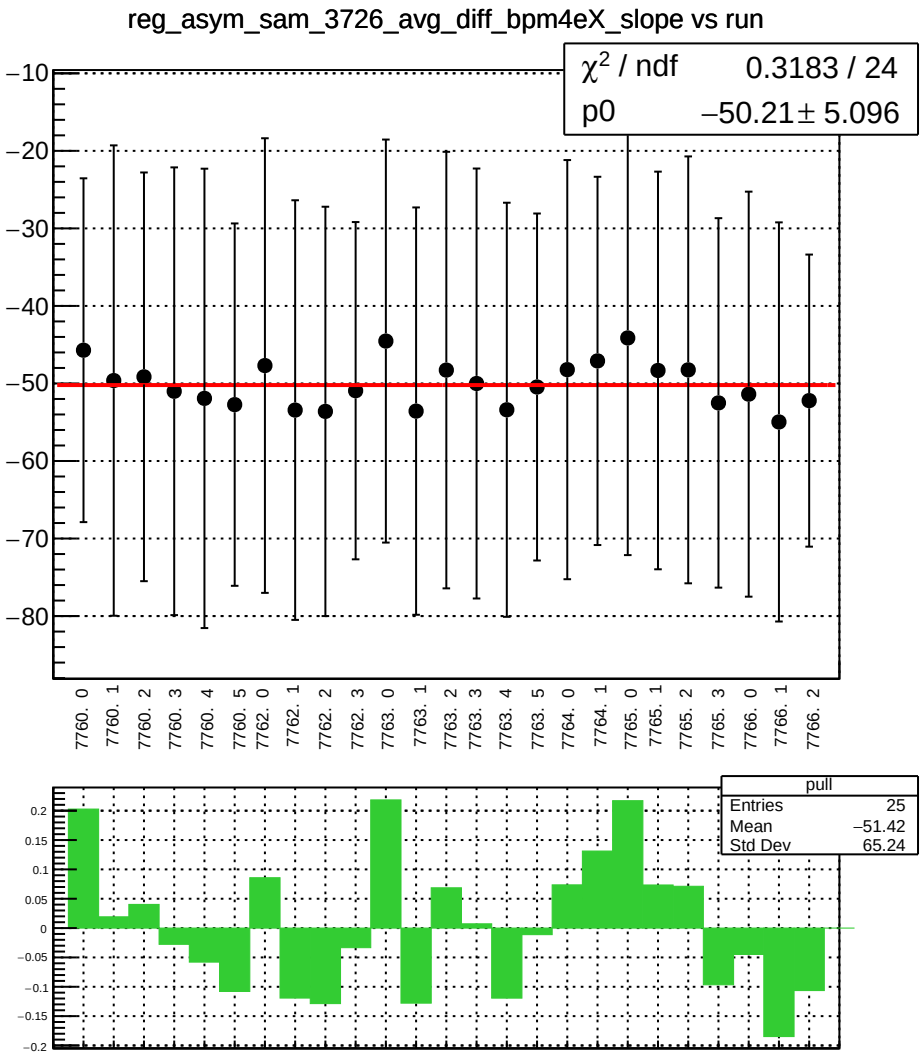

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.172 / 24
p0 14.89 ± 3.123
40
30
20
10
0
−10
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −53.57
Std Dev 82.83
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 25
Mean −0.002377
Std Dev 0.2165
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

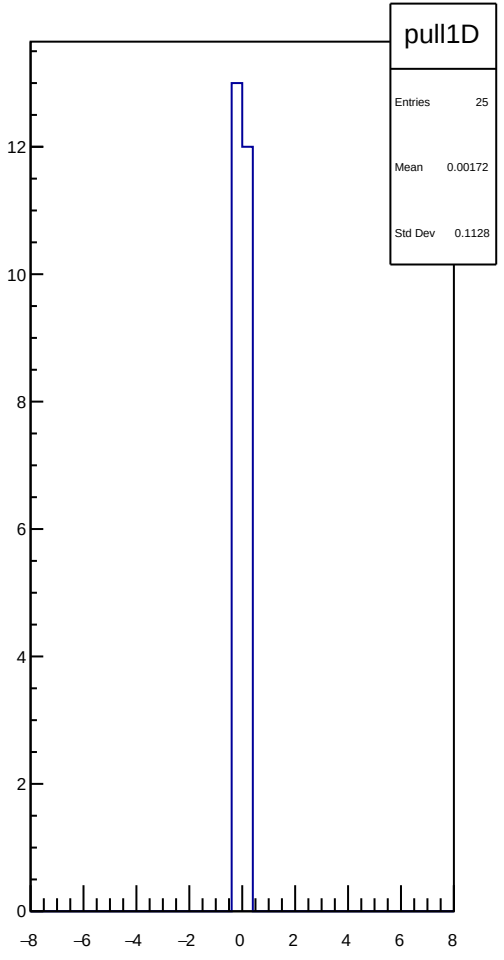

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 1.448 / 24
p0 0.3052 ± 0.08554
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 350.4
Std Dev 336.9
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 25
Mean 0.002219
Std Dev 0.2407
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

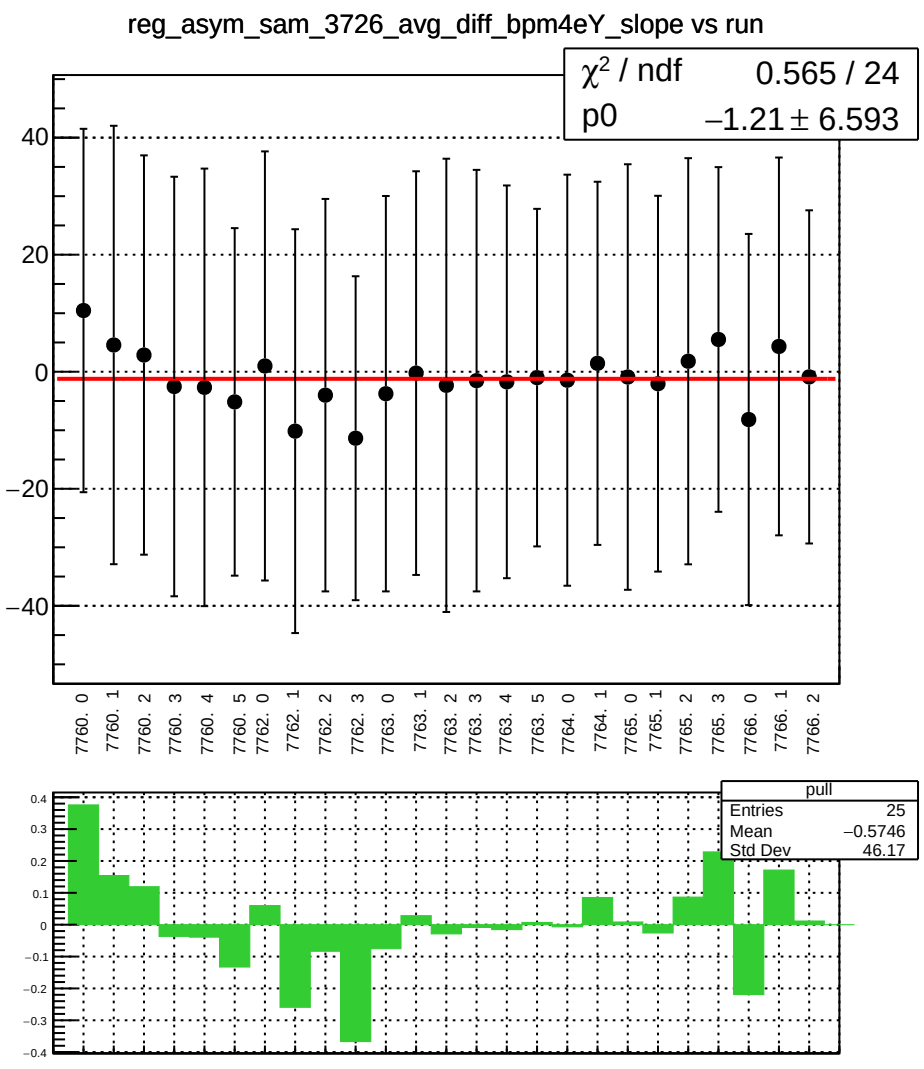

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 0.45 / 24
p0 −33.38 ± 5.499
0
−10
−20
−30
−40
−50
−60
−70
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 68.32
Std Dev 60.11
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

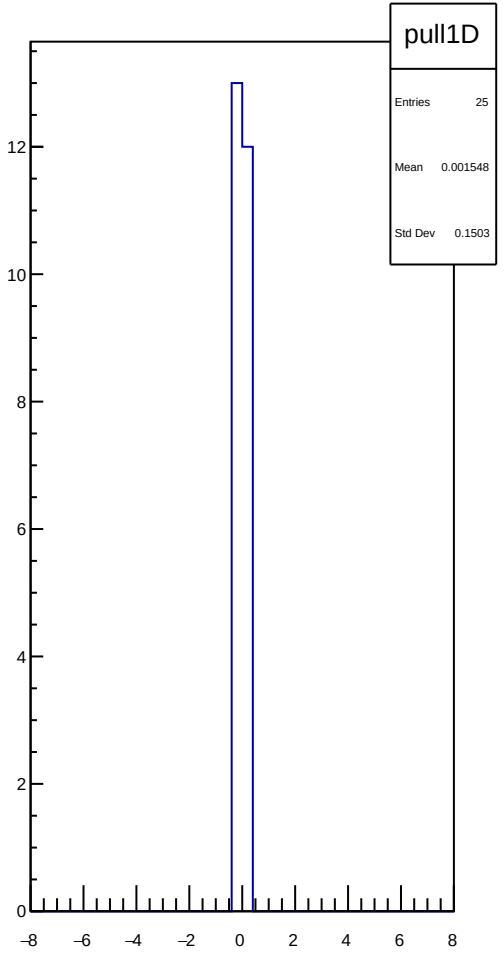

pull1D
Entries 25
Mean −0.004322
Std Dev 0.1341
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

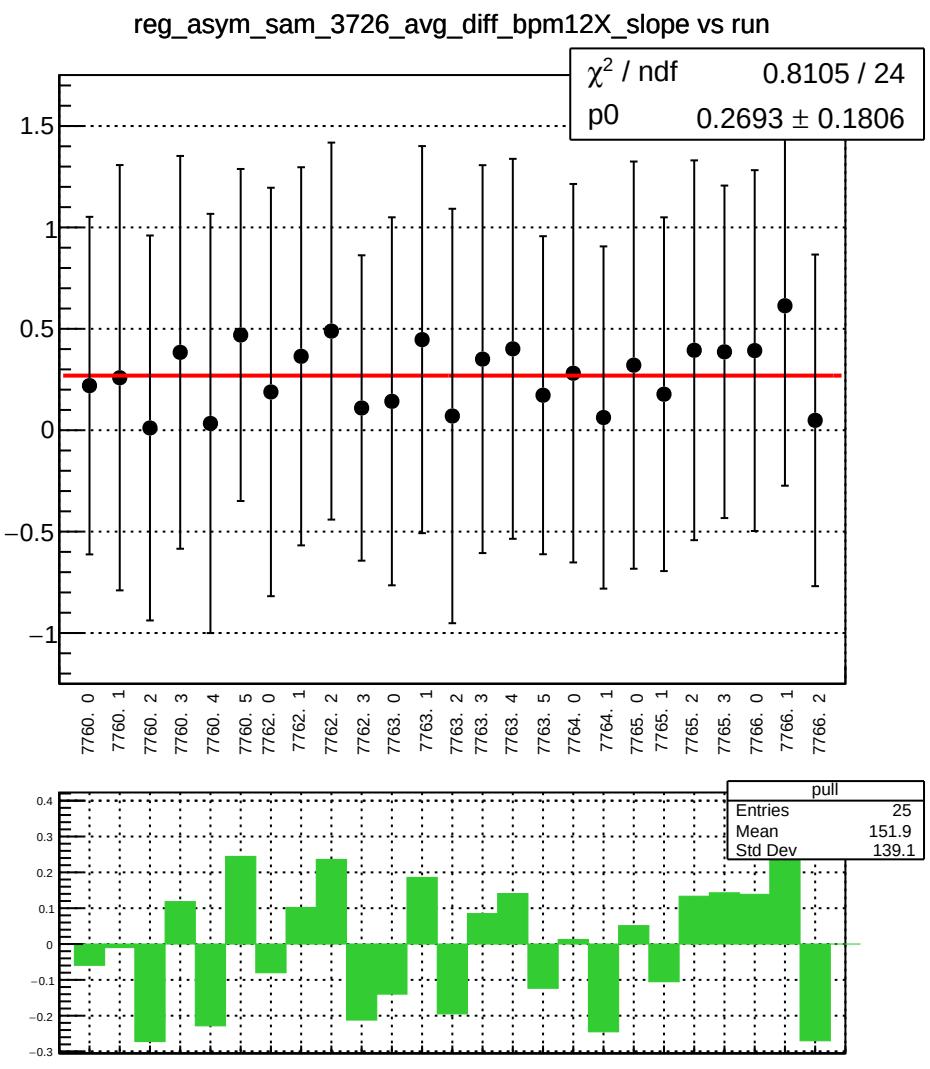

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.4003 / 24
p0 −12.96 ± 5.851
30
20
10
0
−10
−20
−30
−40
−50
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 105.5
Std Dev 86.53
0.3
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 25
Mean −0.002144
Std Dev 0.1265
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

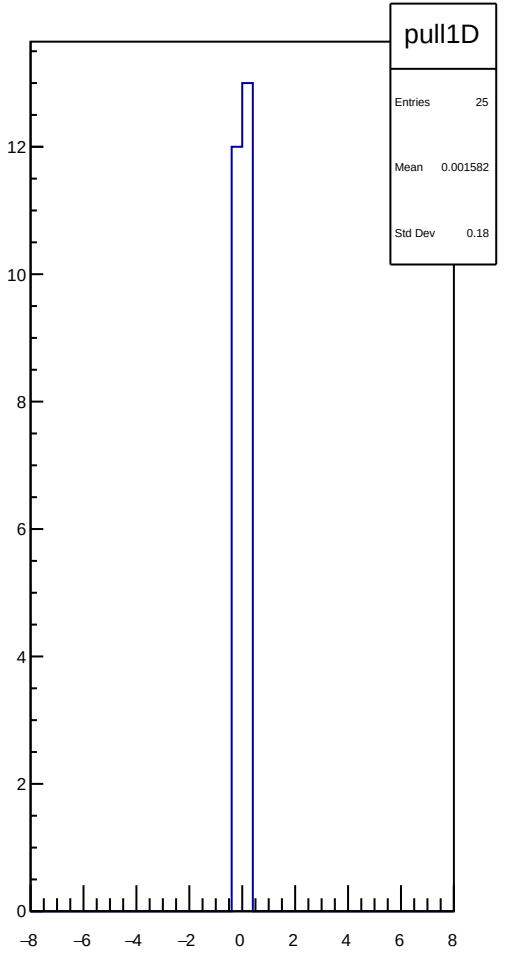

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 0.3183 / 24
p0 −50.21 ± 5.096
−10
−20
−30
−40
−50
−60
−70
−80
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −51.42
Std Dev 65.24
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2

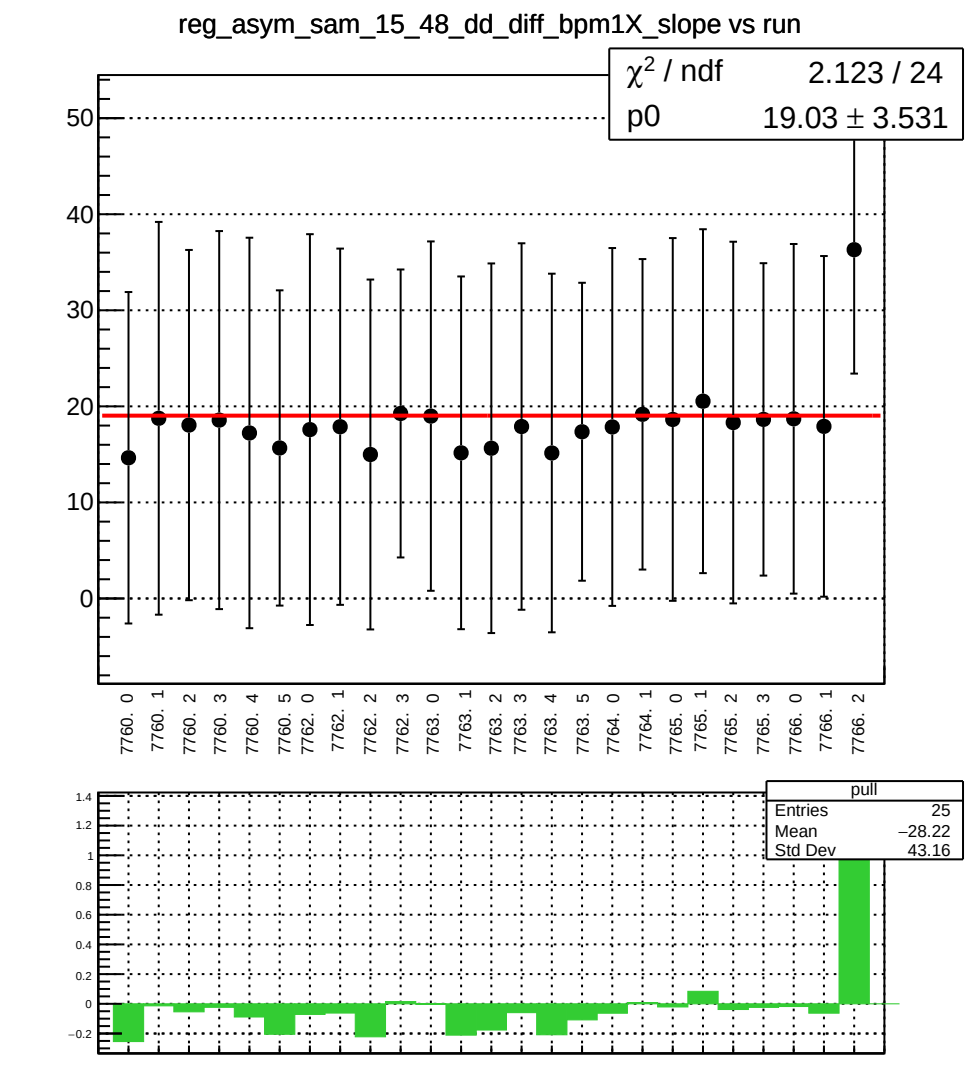

pull1D
Entries 25
Mean 0.00172
Std Dev 0.1128
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

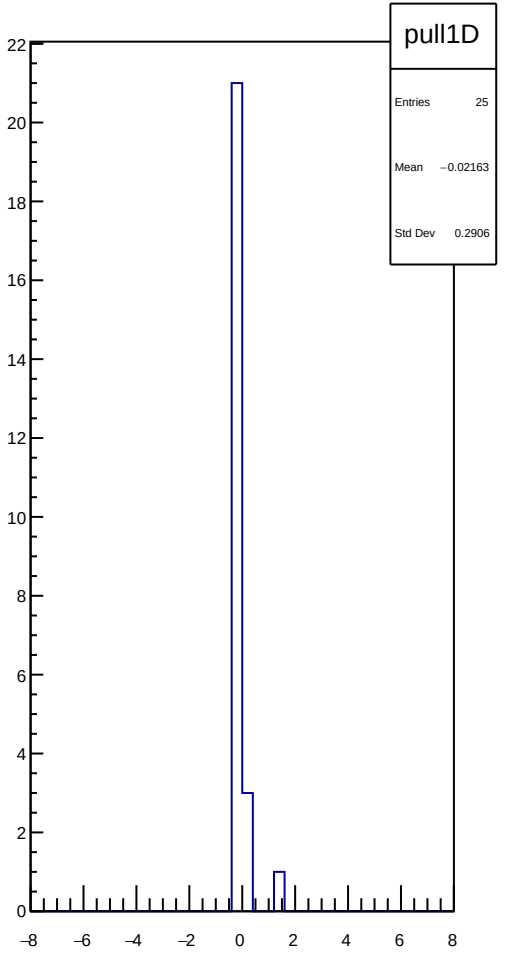

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.565 / 24
p0 −1.21 ± 6.593
40
20
0
−20
−40
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −0.5746
Std Dev 46.17
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

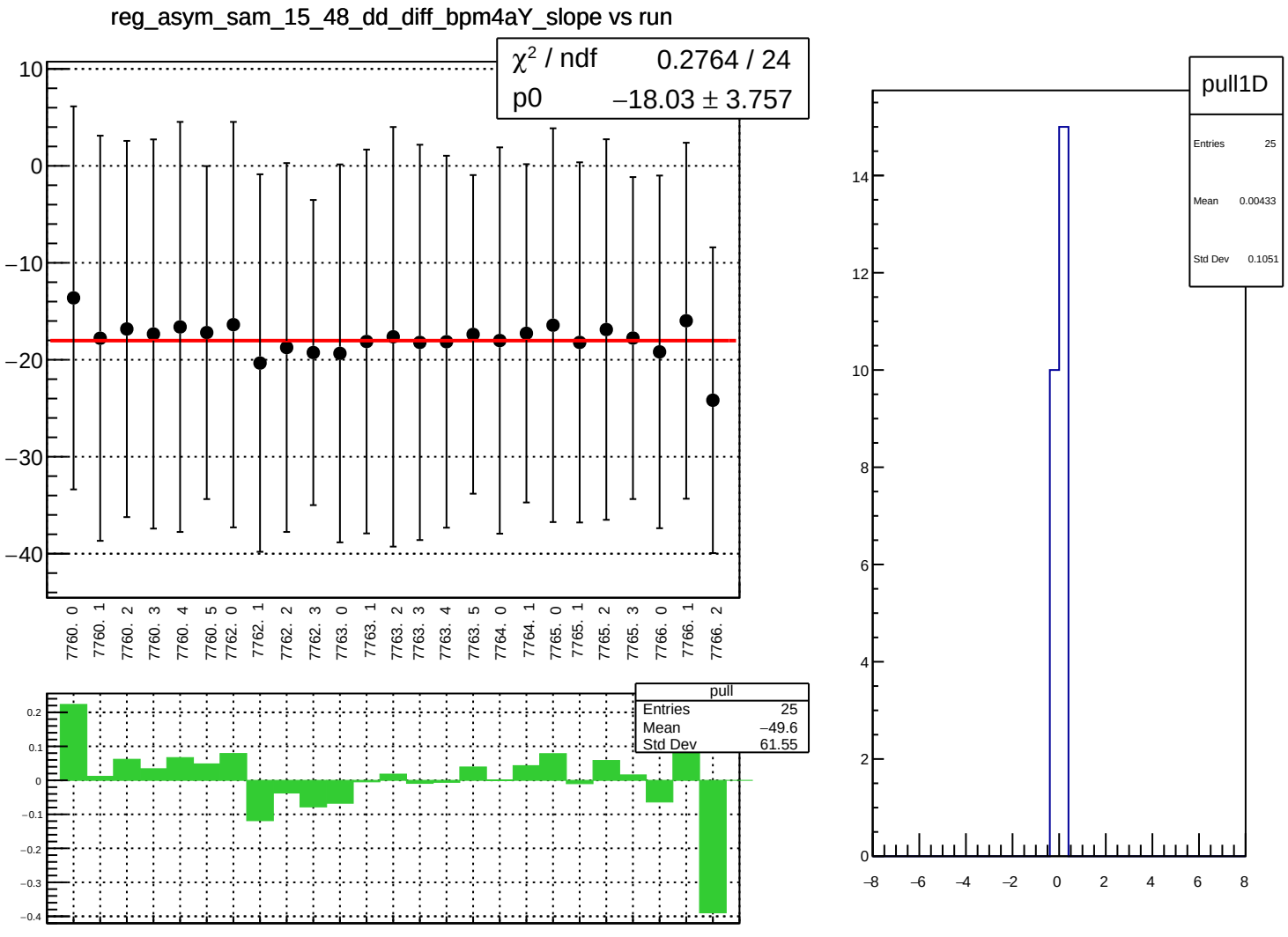

pull1D
Entries 25
Mean 0.001548
Std Dev 0.1503
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

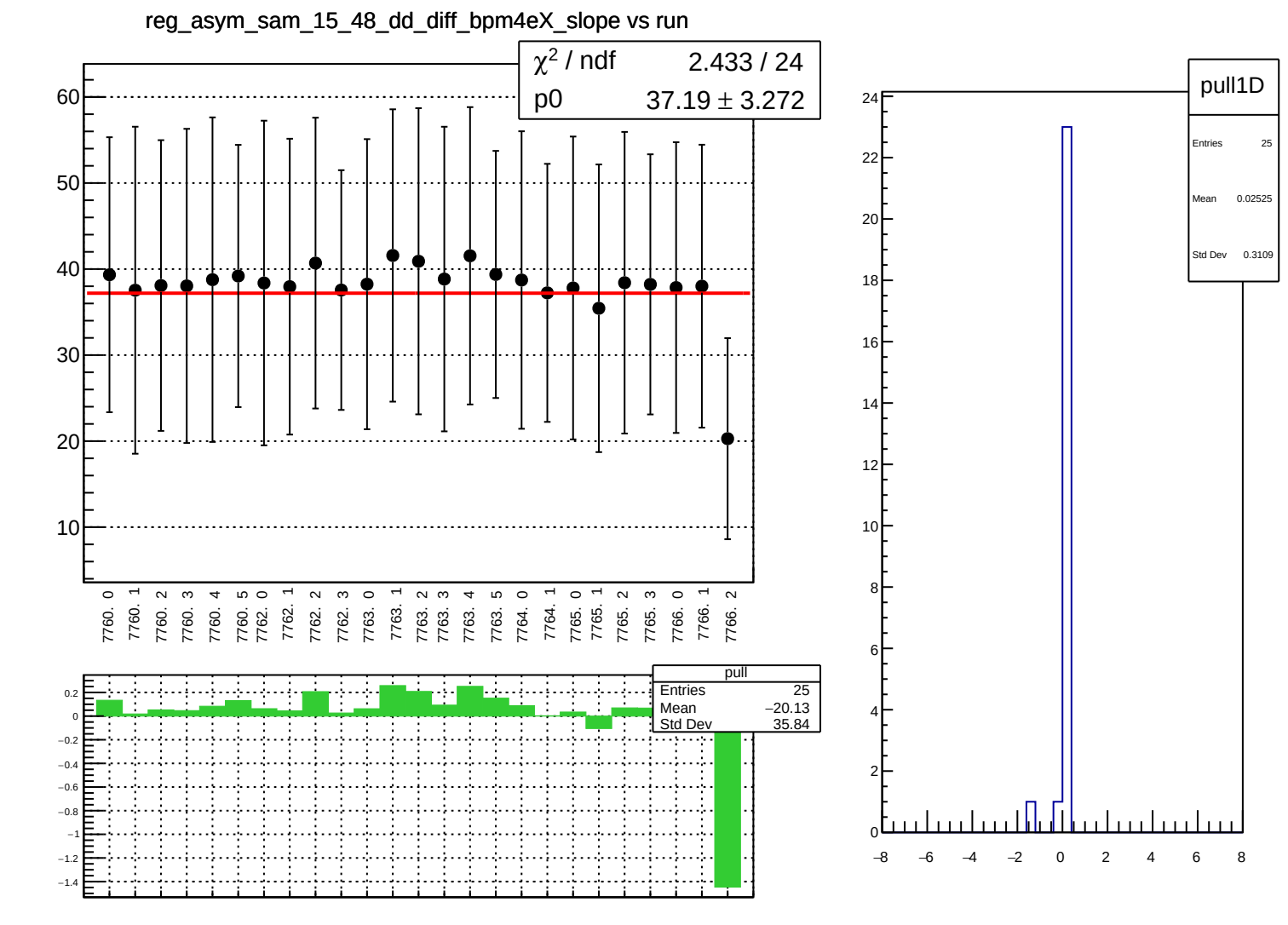

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 0.8105 / 24
p0 0.2693 ± 0.1806
1.5
1
0.5
0
−0.5
−1
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 151.9
Std Dev 139.1
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

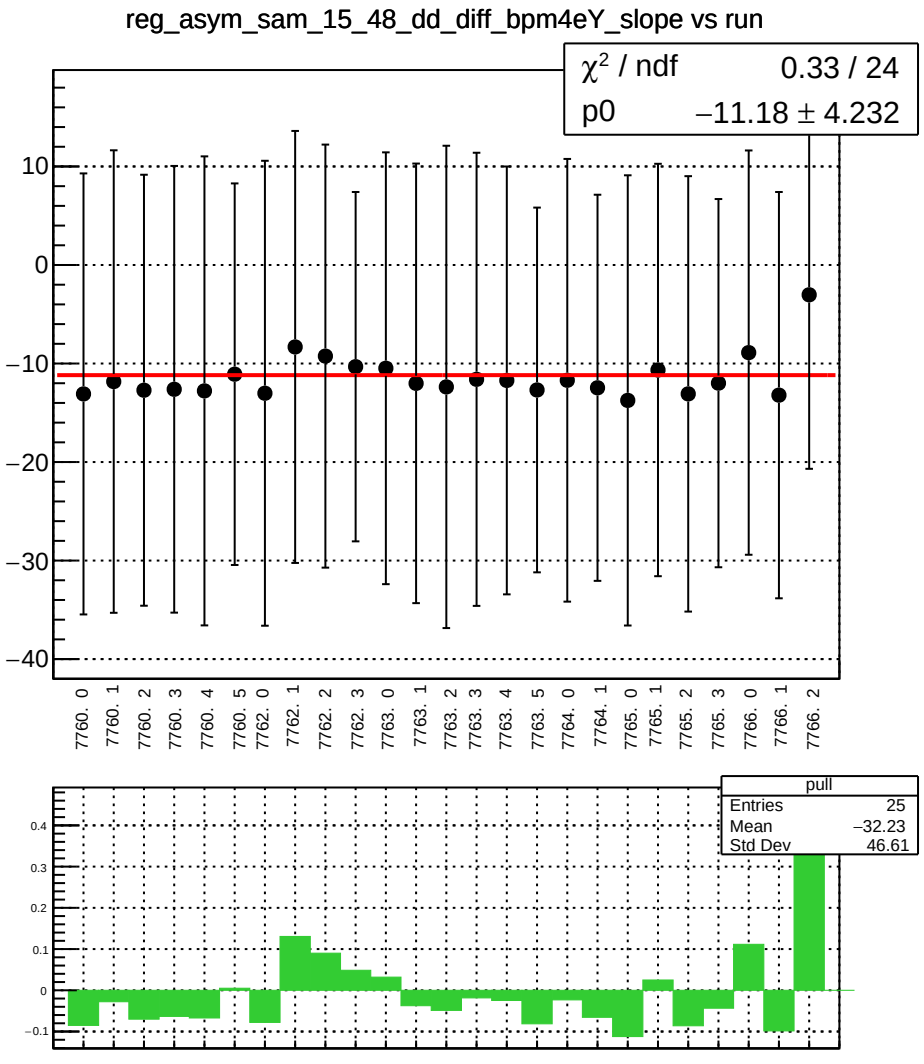

pull1D
Entries 25
Mean 0.001582
Std Dev 0.18
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

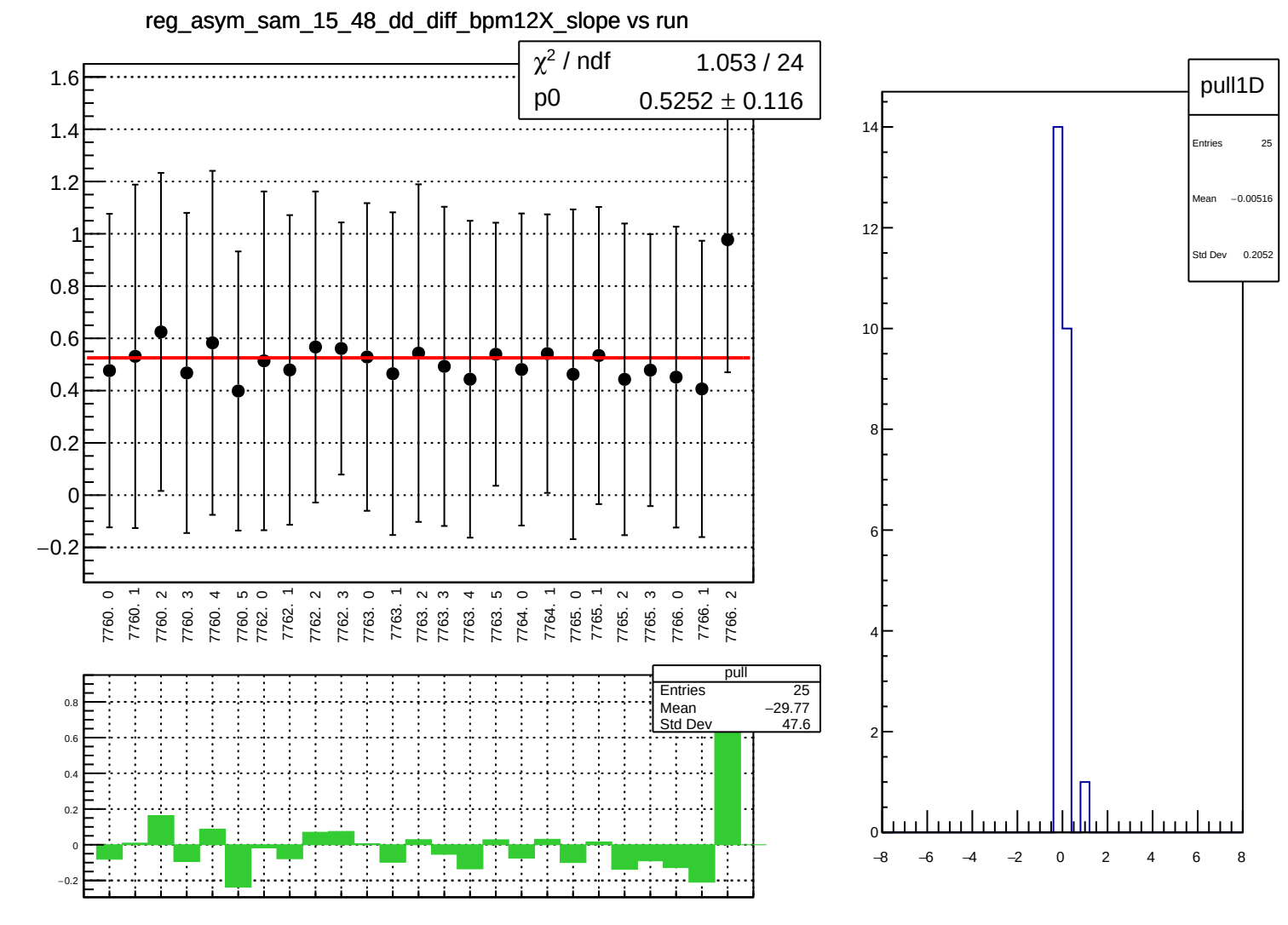

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 2.123 / 24
p0 19.03 ± 3.531
50
40
30
20
10
0
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −28.22
Std Dev 43.16
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2

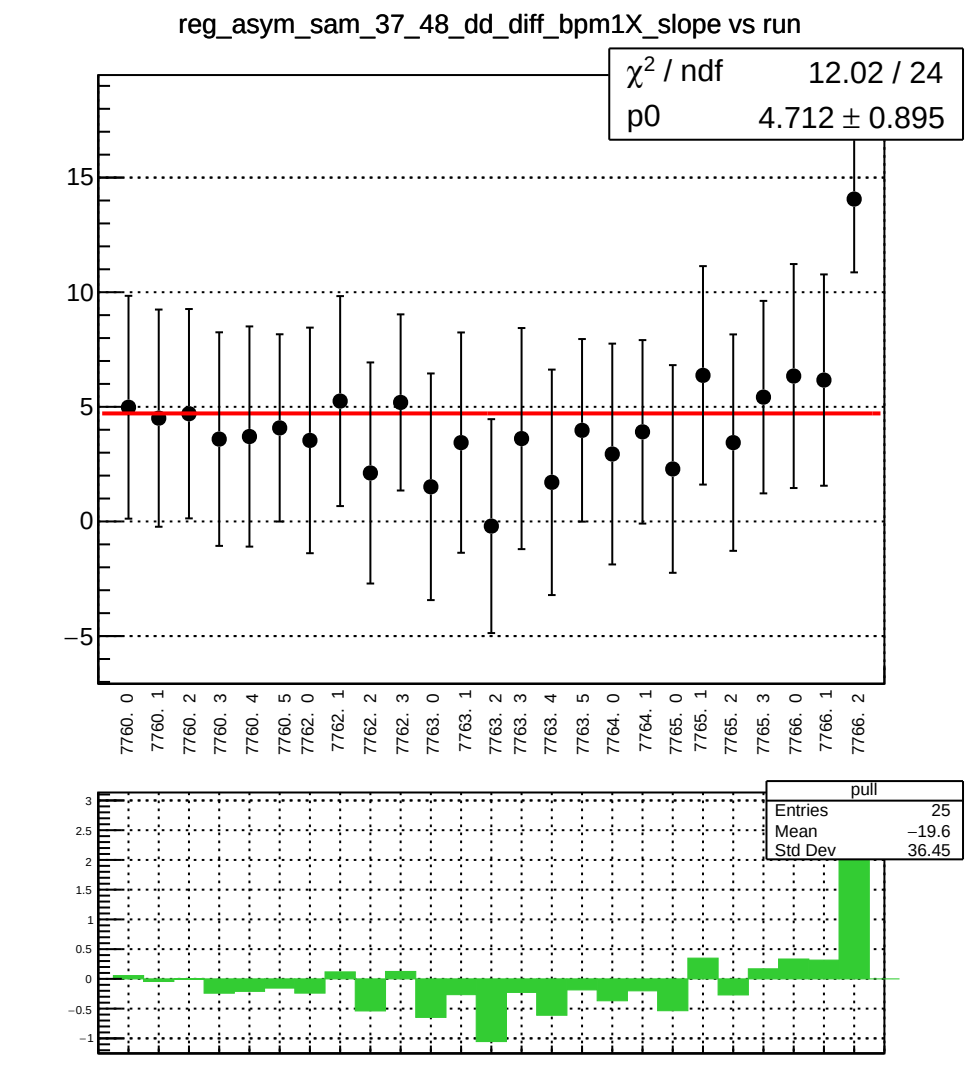

pull1D
Entries 25
Mean −0.02163
Std Dev 0.2906
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

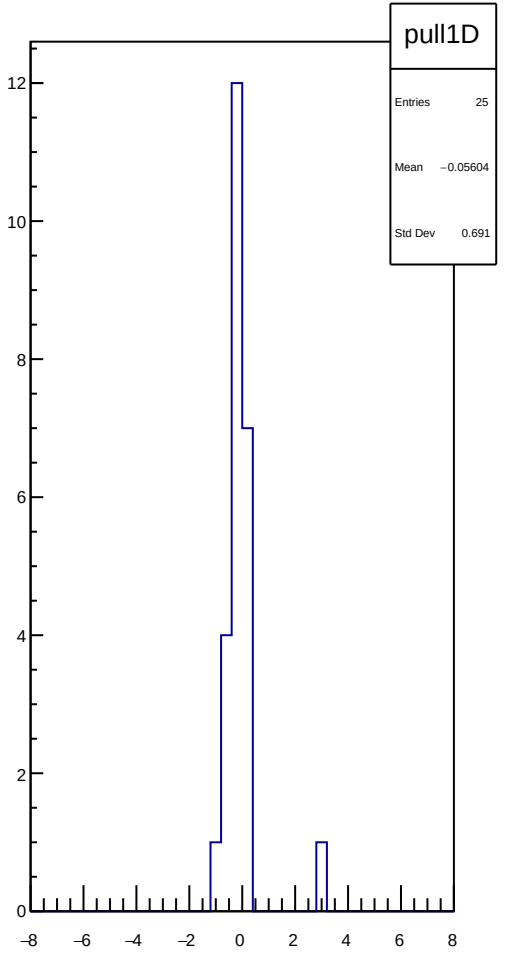

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.2764 / 24
p0 −18.03 ± 3.757
10
0
−10
−20
−30
−40
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −49.6
Std Dev 61.55
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 25
Mean 0.00433
Std Dev 0.1051
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

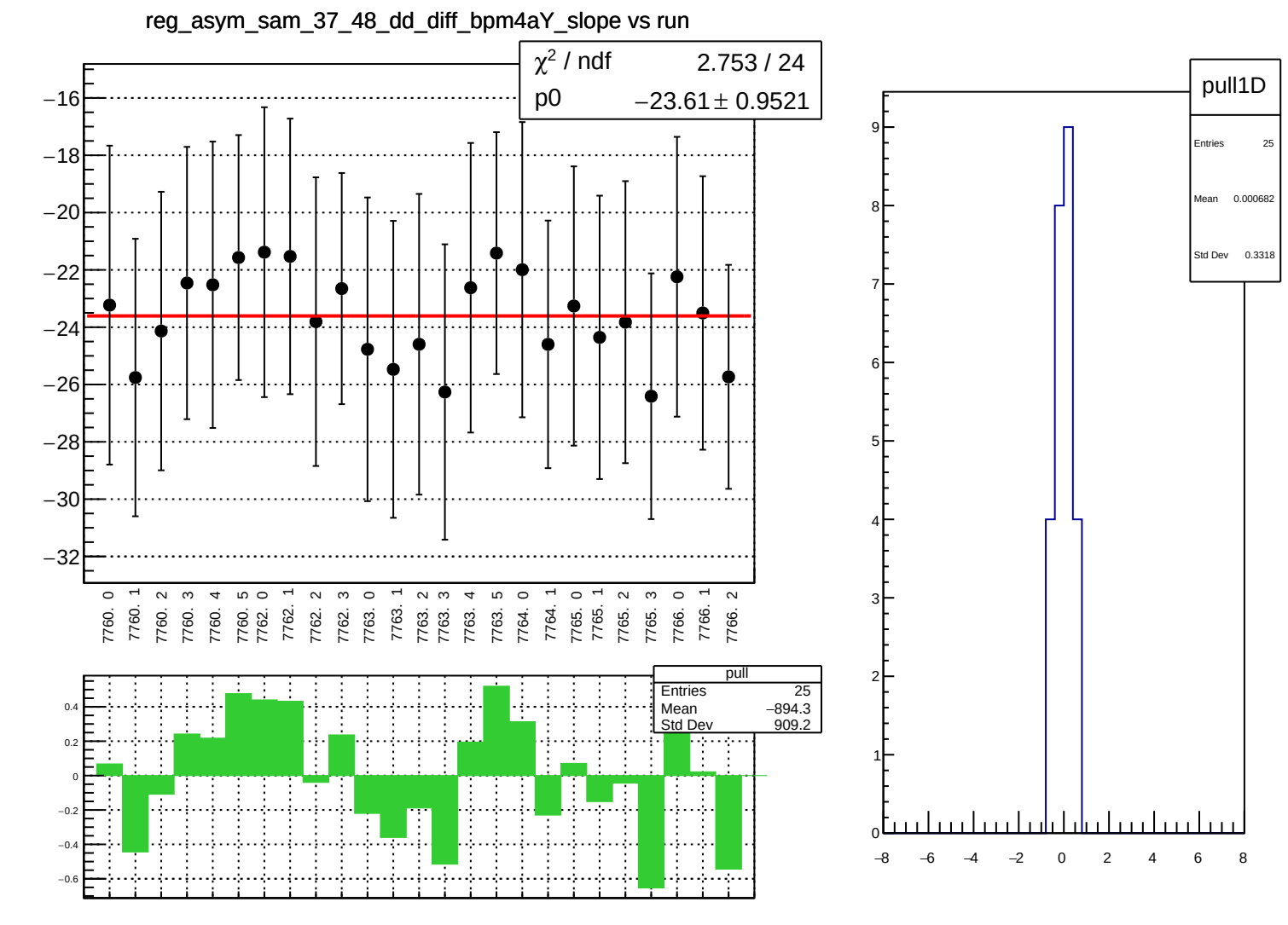

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.433 / 24
p0 37.19 ± 3.272
60
50
40
30
20
10
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −20.13
Std Dev 35.84
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4
pull1D
Entries 25
Mean 0.02525
Std Dev 0.3109
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.33 / 24
p0 −11.18 ± 4.232
10
0
−10
−20
−30
−40
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −32.23
Std Dev 46.61
0.4
0.3
0.2
0.1
0
−0.1
pull1D
Entries 25
Mean −0.005048
Std Dev 0.1148
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 1.053 / 24
p0 0.5252 ± 0.116
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −29.77
Std Dev 47.6
0.8
0.6
0.4
0.2
0
−0.2
pull1D
Entries 25
Mean −0.00516
Std Dev 0.2052
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 12.02 / 24
p0 4.712 ± 0.895
15
10
5
0
−5
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −19.6
Std Dev 36.45
3
2.5
2
1.5
1
0.5
0
−0.5
−1


pull1D
Entries 25
Mean −0.05604
Std Dev 0.691
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.753 / 24
p0 −23.61 ± 0.9521
−16
−18
−20
−22
−24
−26
−28
−30
−32
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −894.3
Std Dev 909.2
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 25
Mean 0.000682
Std Dev 0.3318
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
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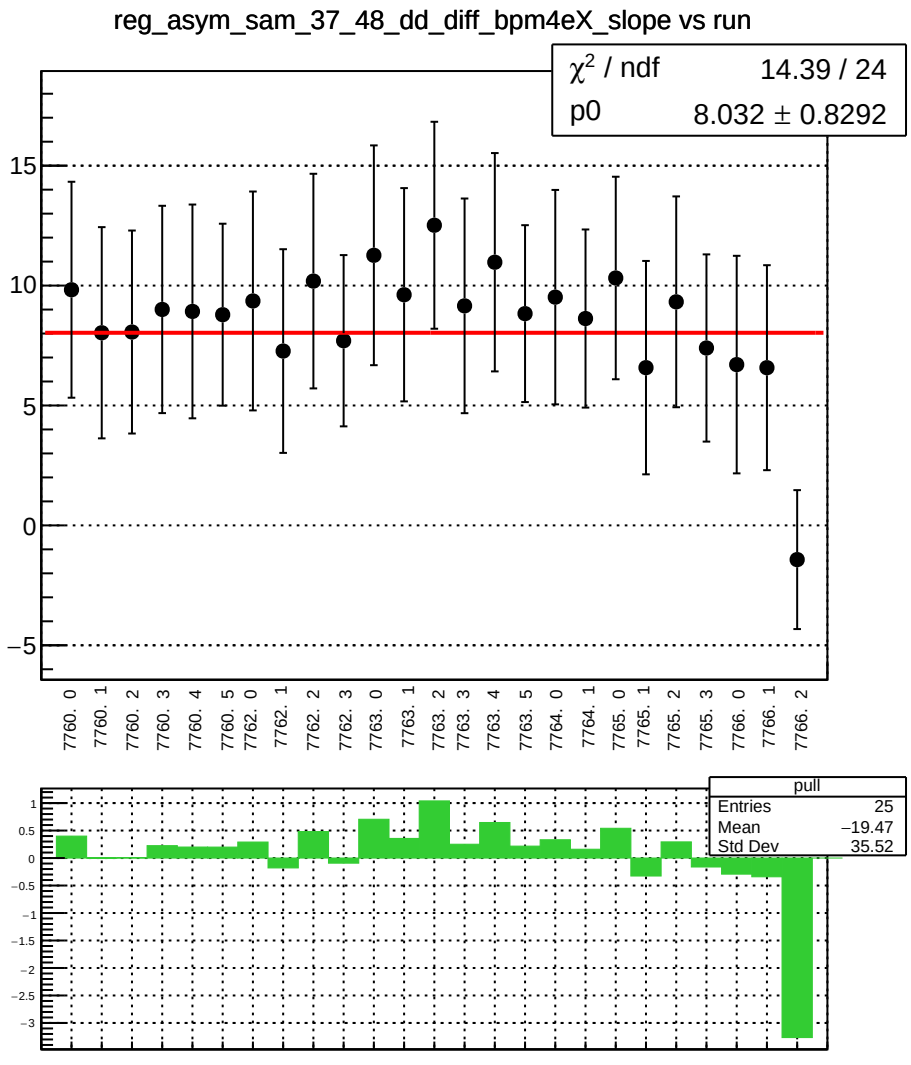
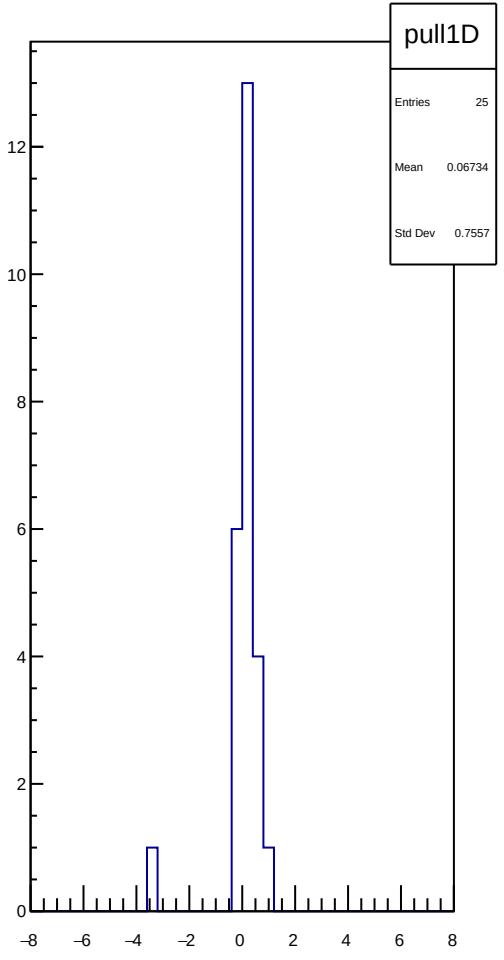
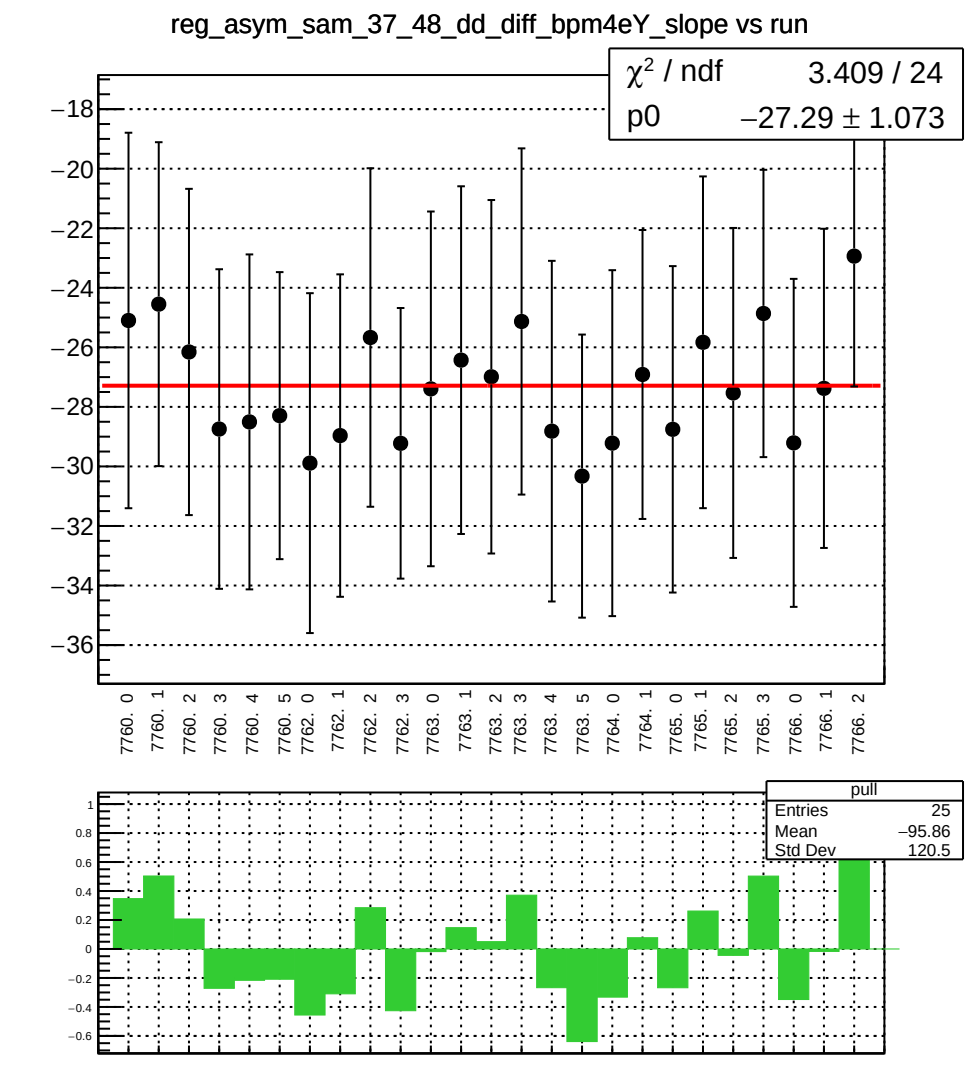
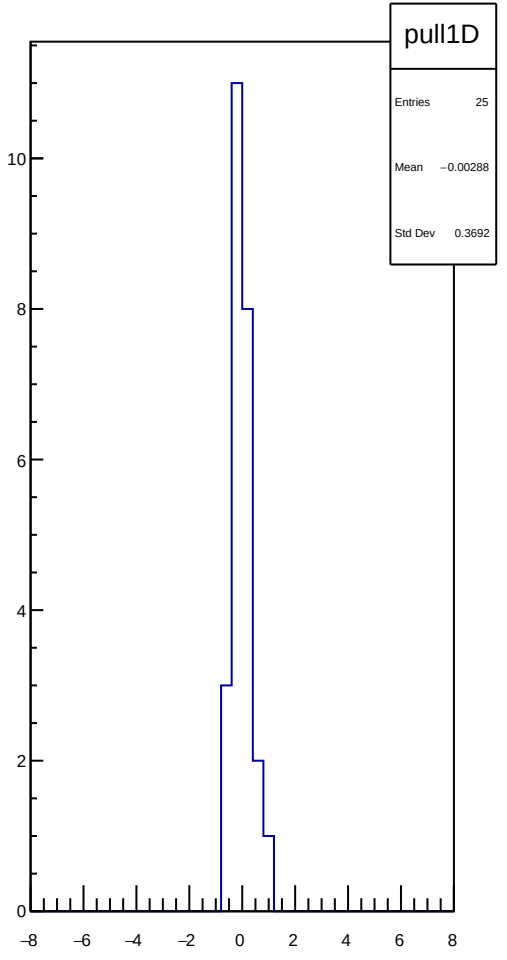
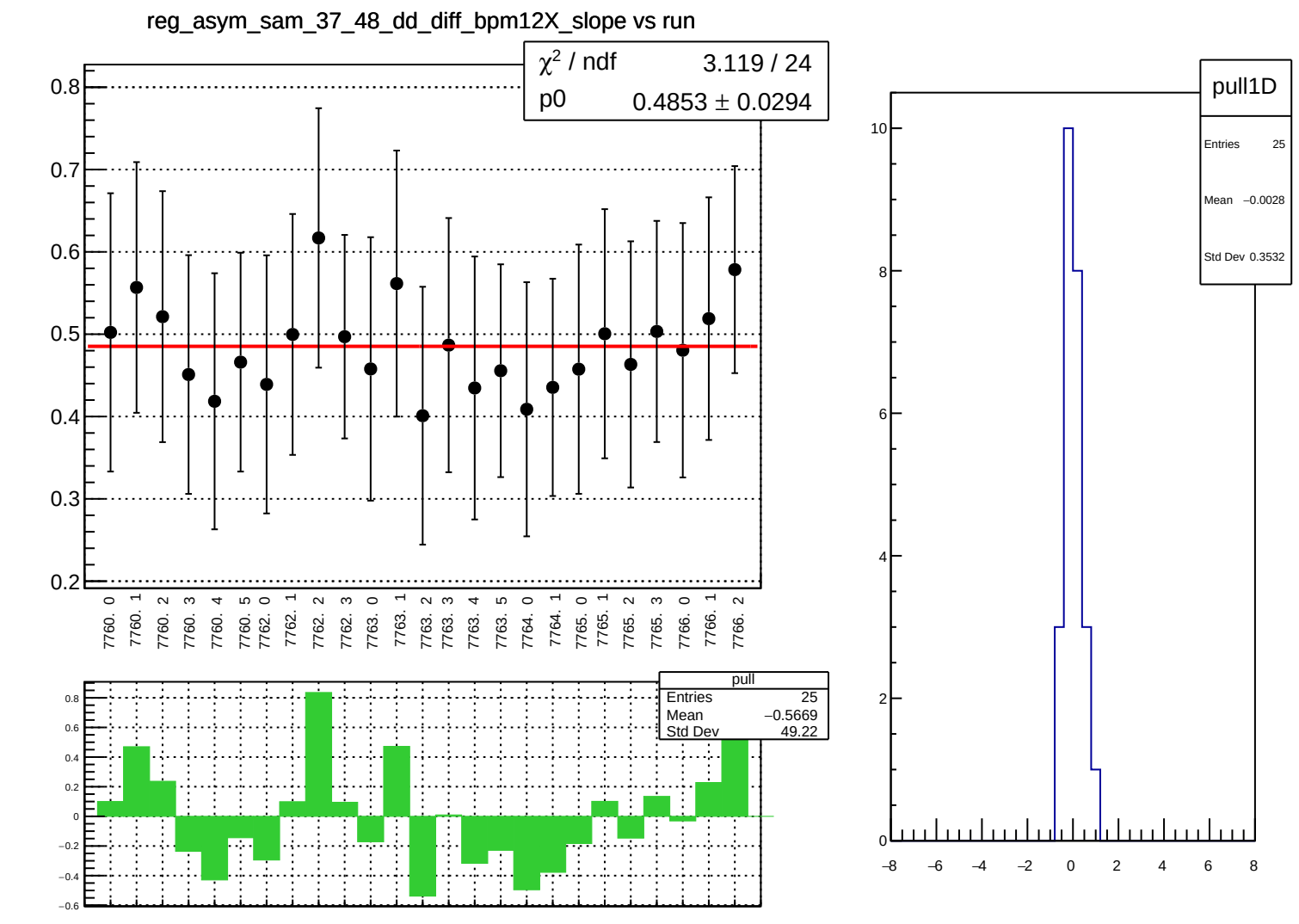
2
4
6
8

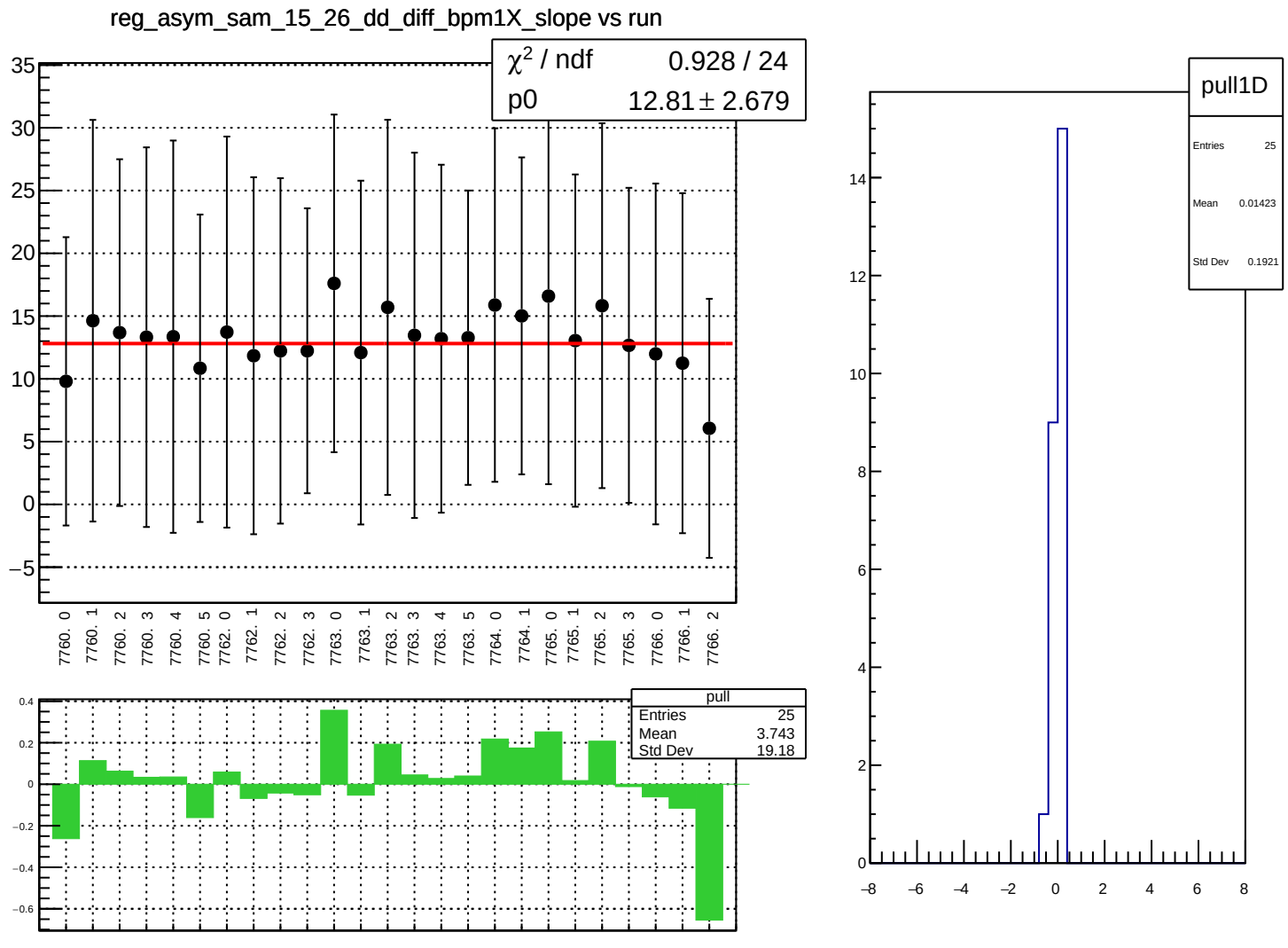

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 14.39 / 24
p0 8.032 ± 0.8292
15
10
5
0
−5
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −19.47
Std Dev 35.52
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

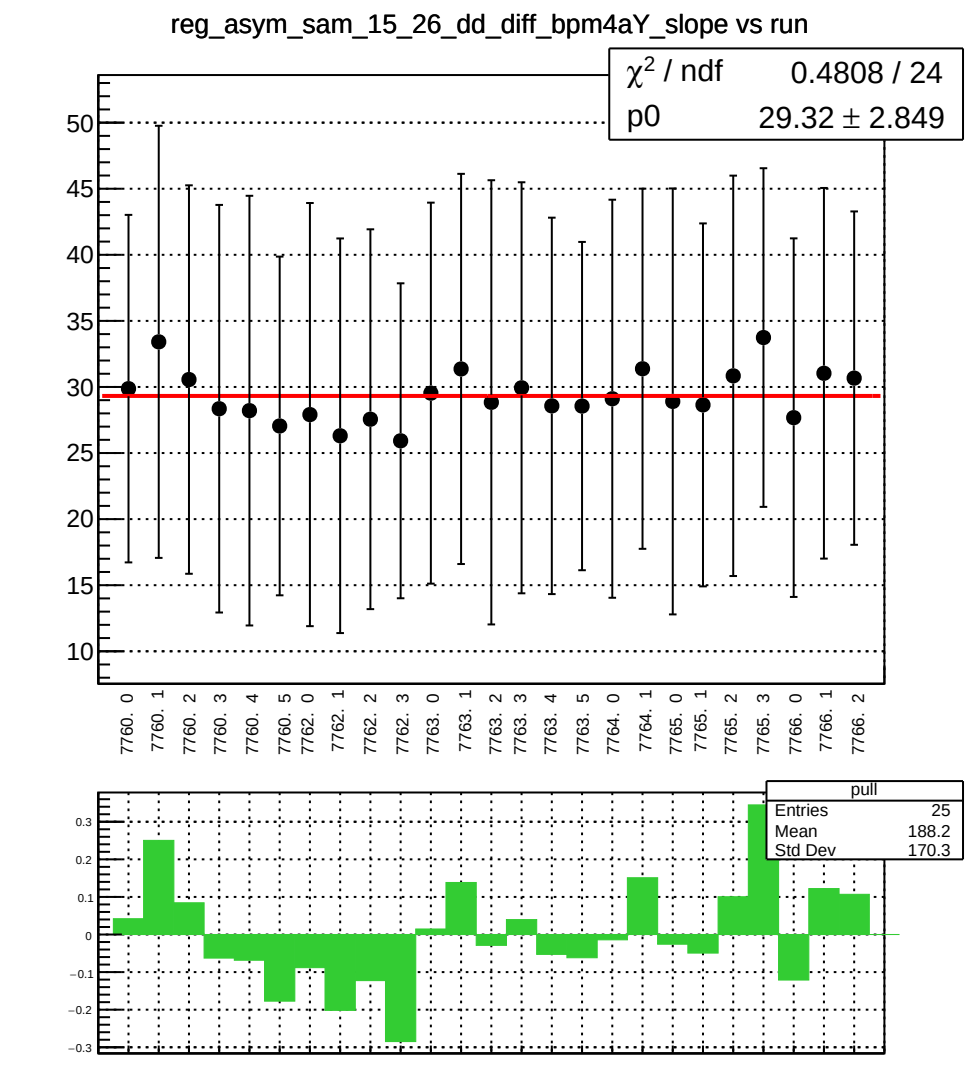

pull1D
Entries 25
Mean 0.06734
Std Dev 0.7557
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

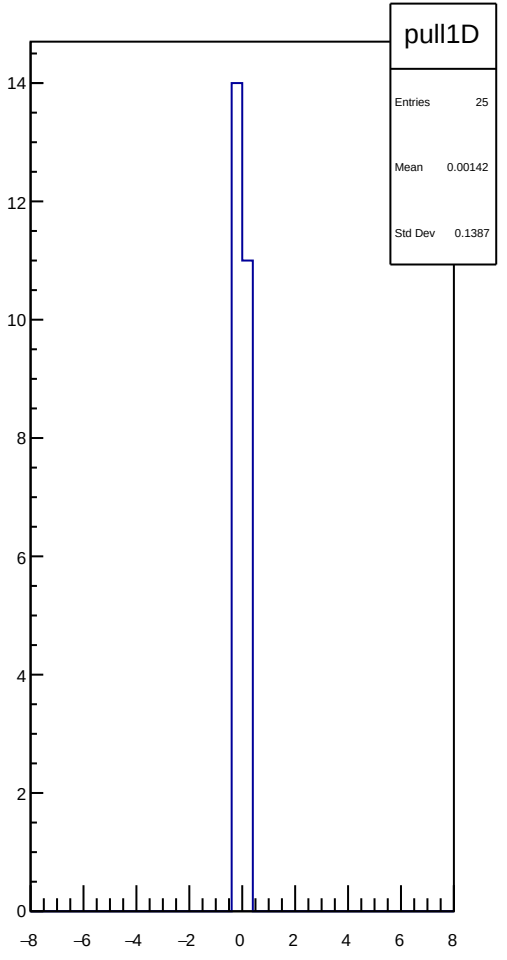

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.409 / 24
p0 −27.29 ± 1.073
−18
−20
−22
−24
−26
−28
−30
−32
−34
−36
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −95.86
Std Dev 120.5
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

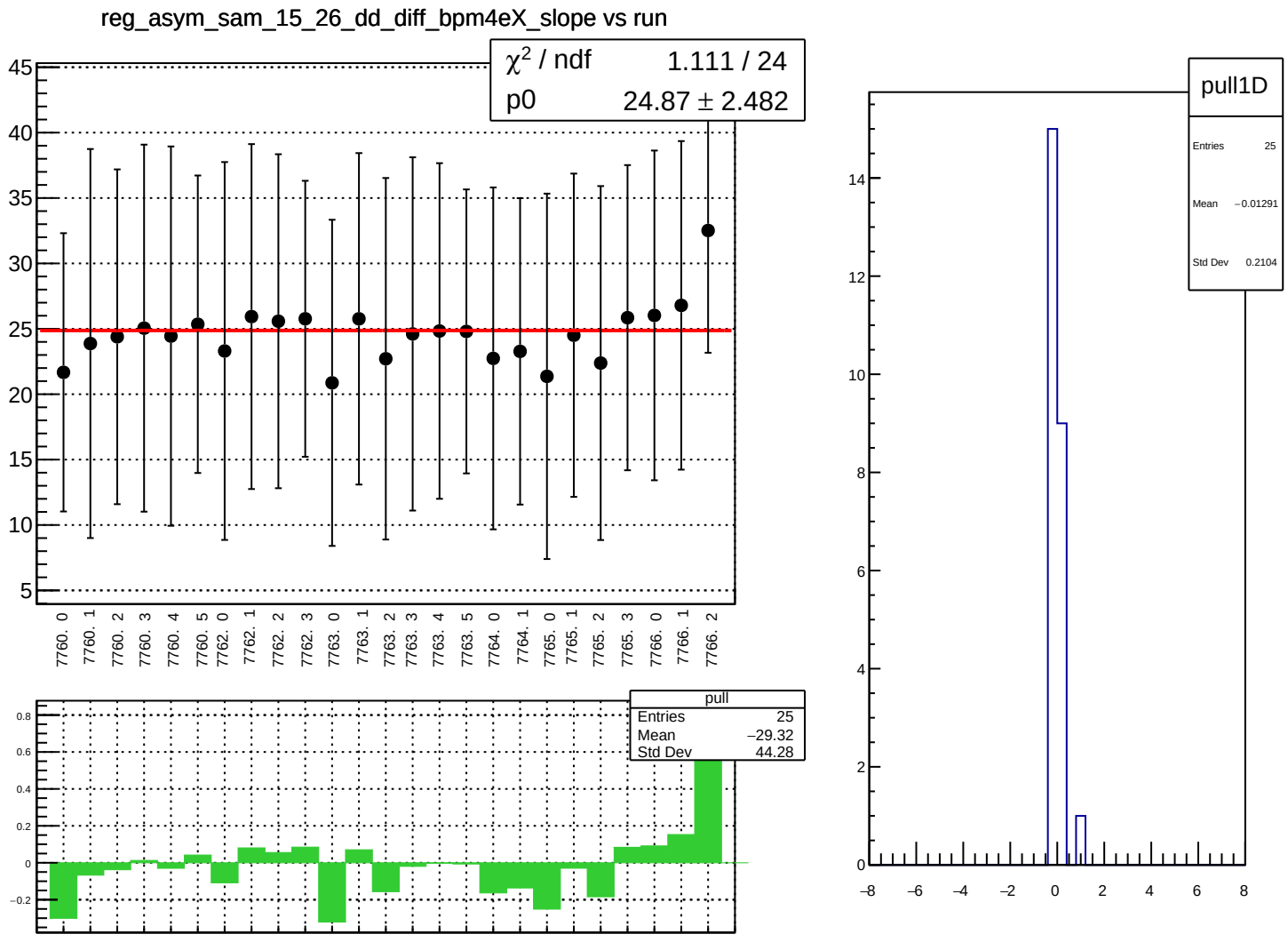

pull1D
Entries 25
Mean −0.00288
Std Dev 0.3692
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

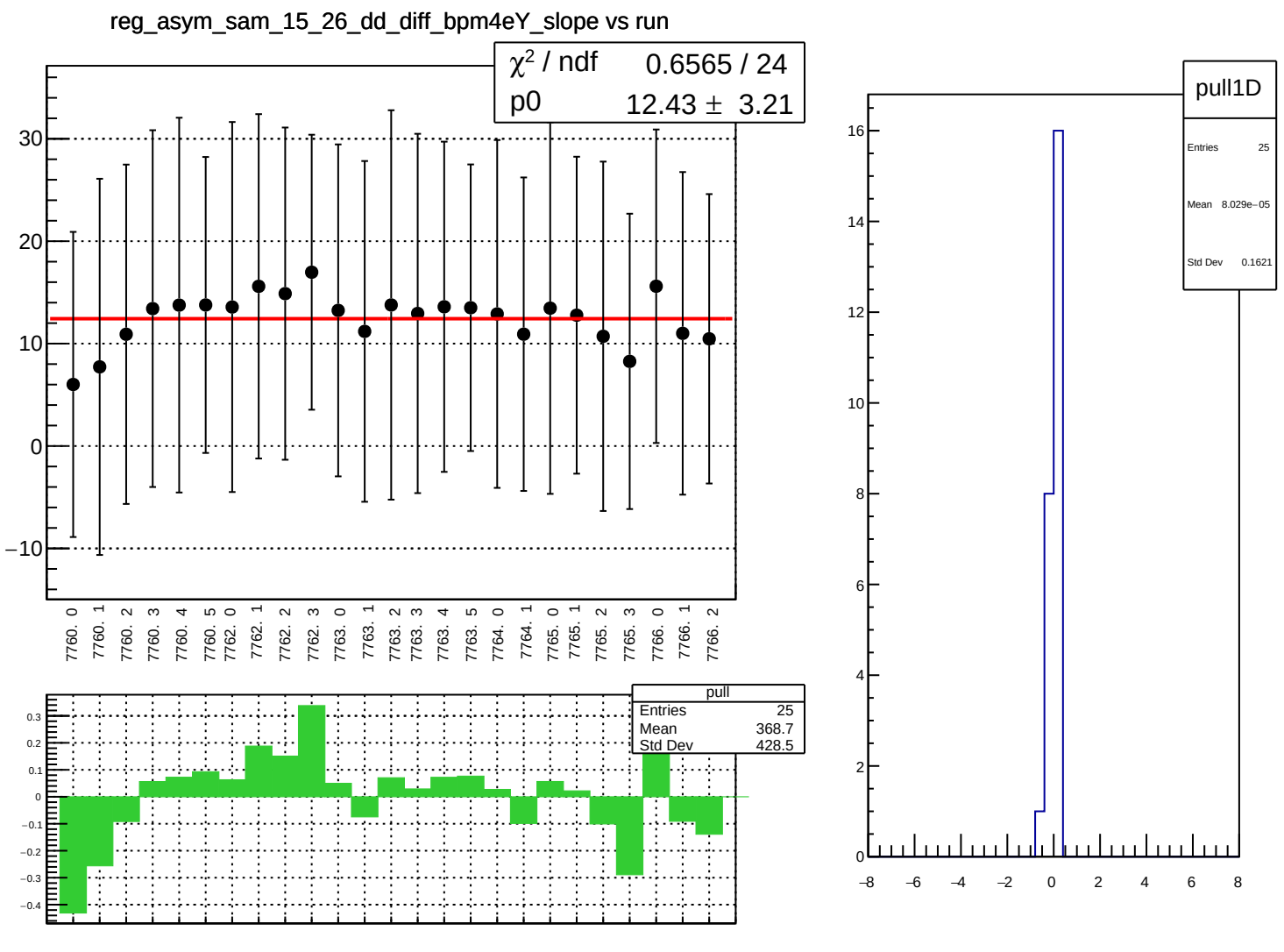

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 3.119 / 24
p0 0.4853 ± 0.0294
0.8
0.7
0.6
0.5
0.4
0.3
0.2
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −0.5669
Std Dev 49.22
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 25
Mean −0.0028
Std Dev 0.3532
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

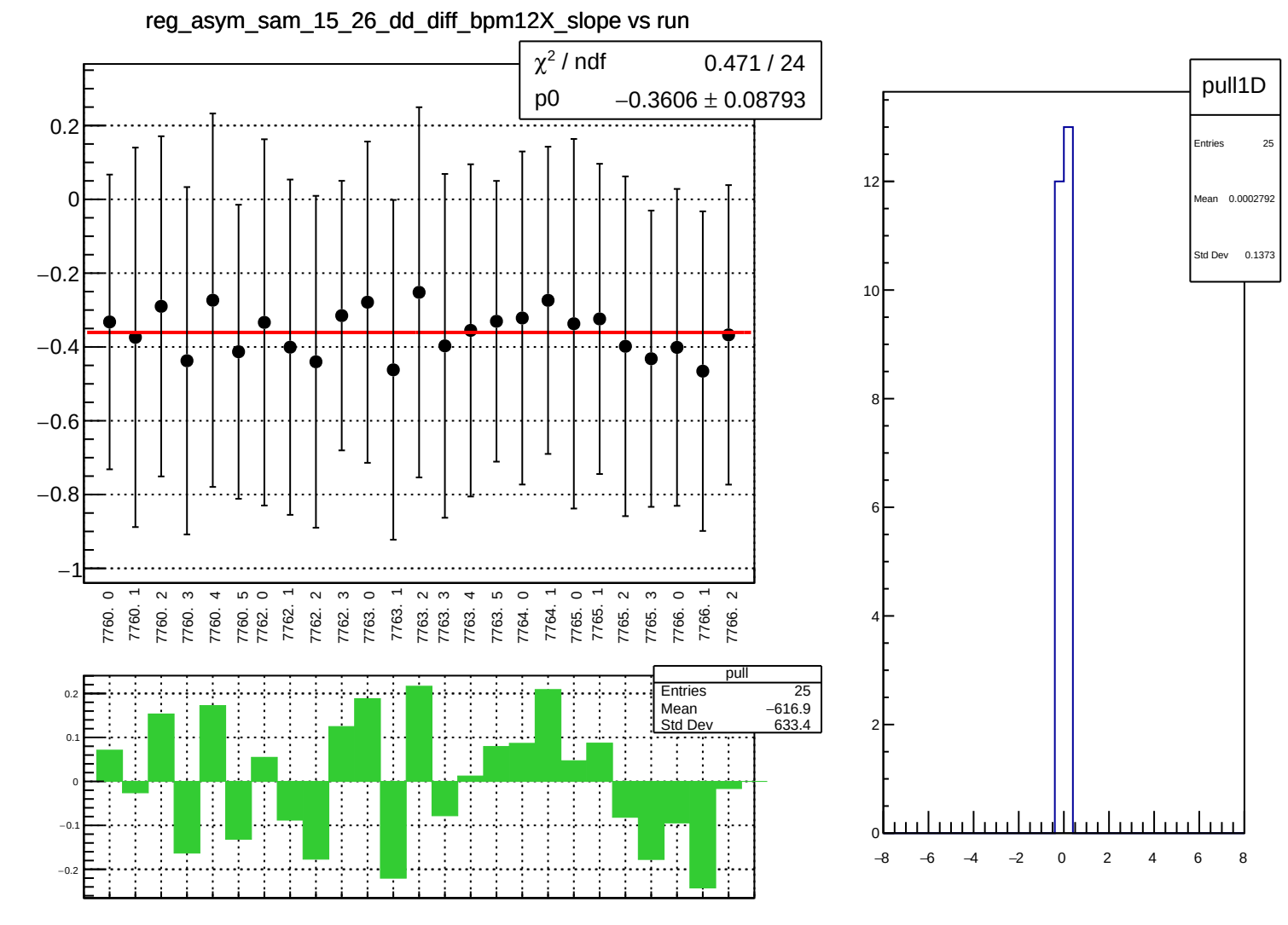

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 0.928 / 24
p0 12.81 ± 2.679
35
30
25
20
15
10
5
0
−5
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 3.743
Std Dev 19.18
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 25
Mean 0.01423
Std Dev 0.1921
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

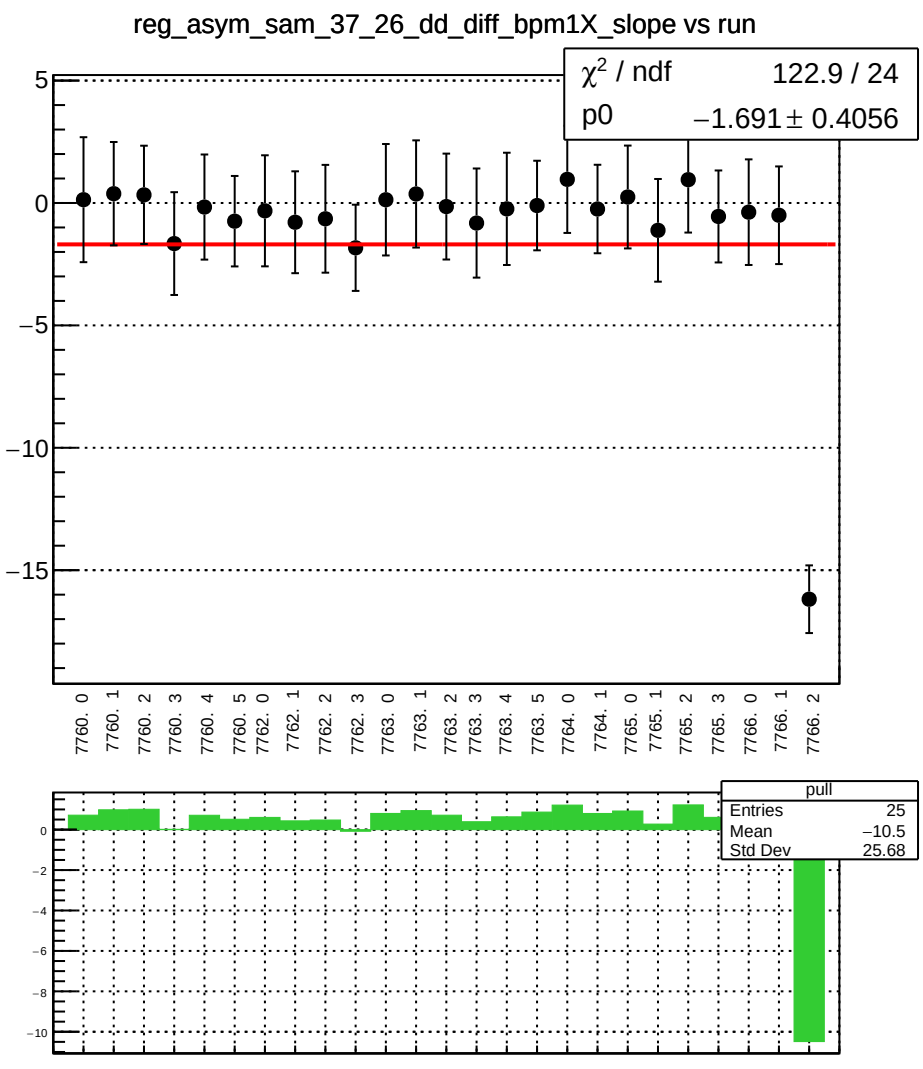

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.4808 / 24
p0 29.32 ± 2.849
50
45
40
35
30
25
20
15
10
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 188.2
Std Dev 170.3
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

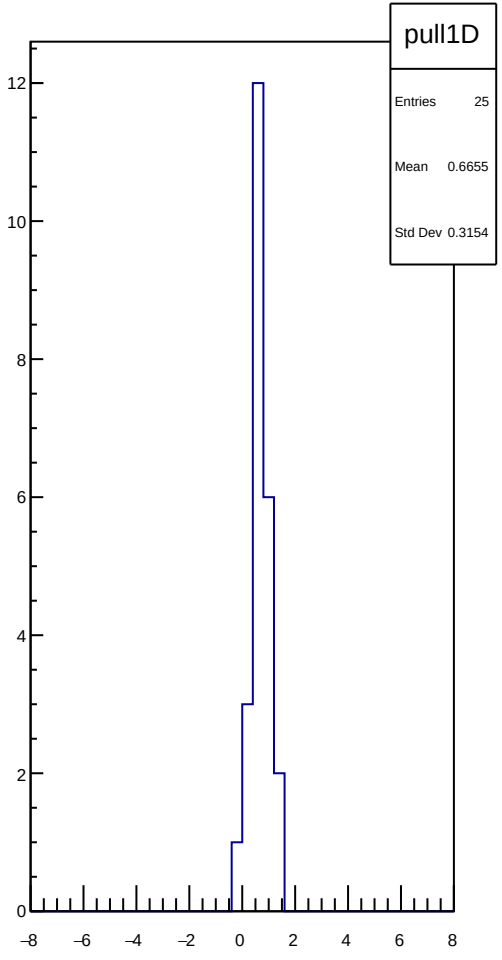

pull1D
Entries 25
Mean 0.00142
Std Dev 0.1387
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

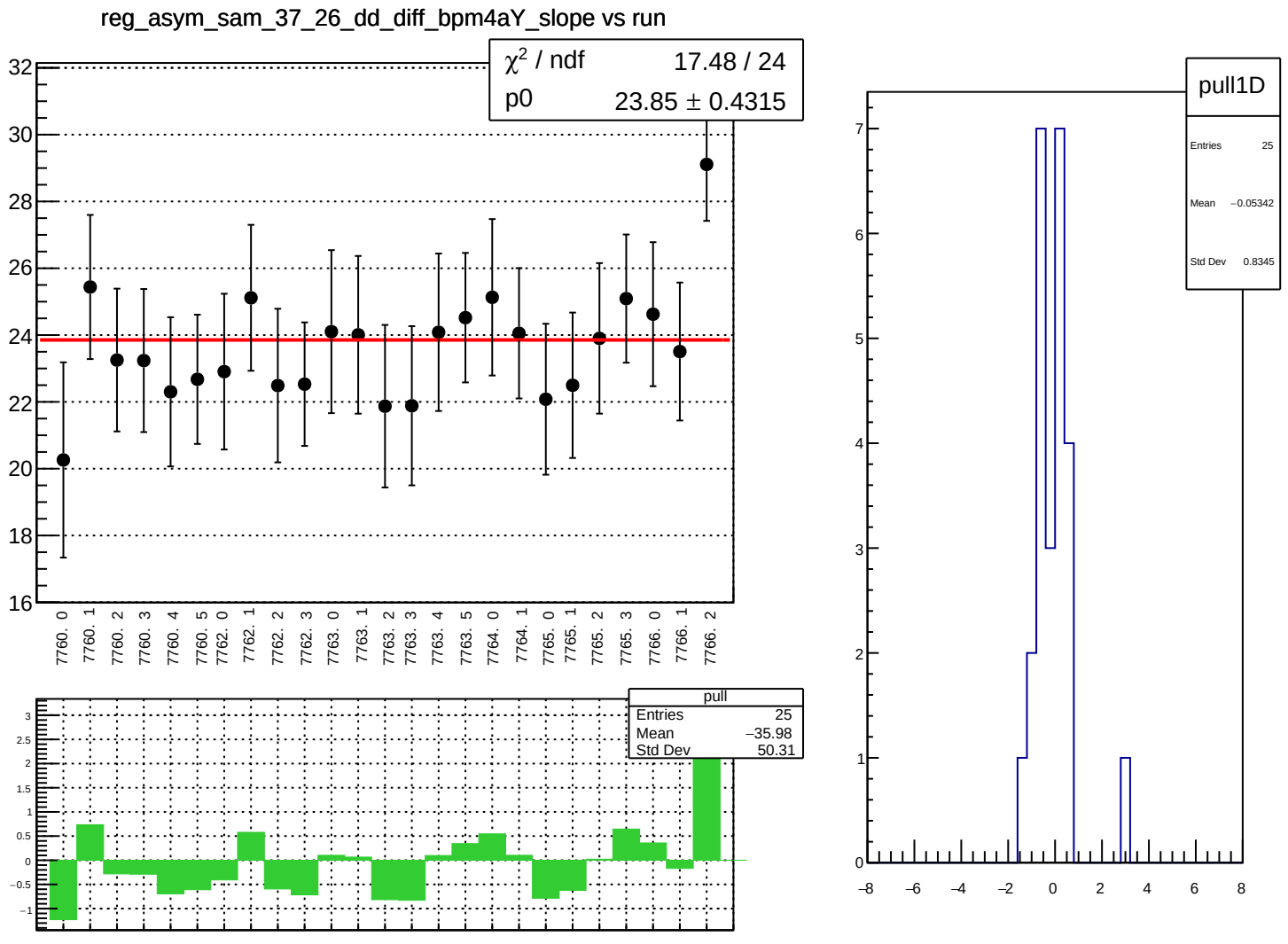

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.111 / 24
p0 24.87 ± 2.482
45
40
35
30
25
20
15
10
5
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −29.32
Std Dev 44.28
0.8
0.6
0.4
0.2
0
−0.2
pull1D
Entries 25
Mean −0.01291
Std Dev 0.2104
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

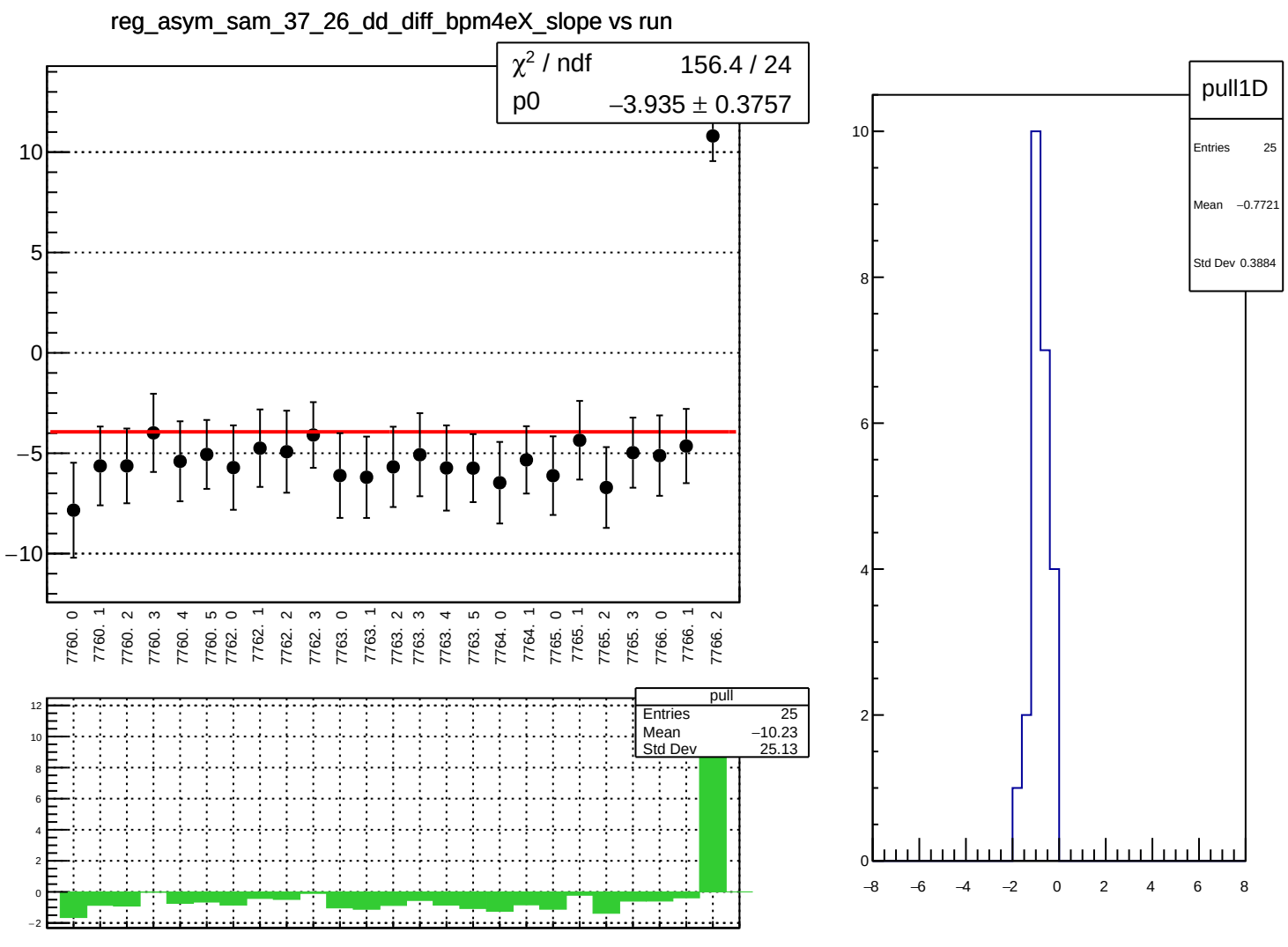

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.6565 / 24
p0 12.43 ± 3.21
30
20
10
0
−10
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 368.7
Std Dev 428.5
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 25
Mean 8.029e−05
Std Dev 0.1621
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

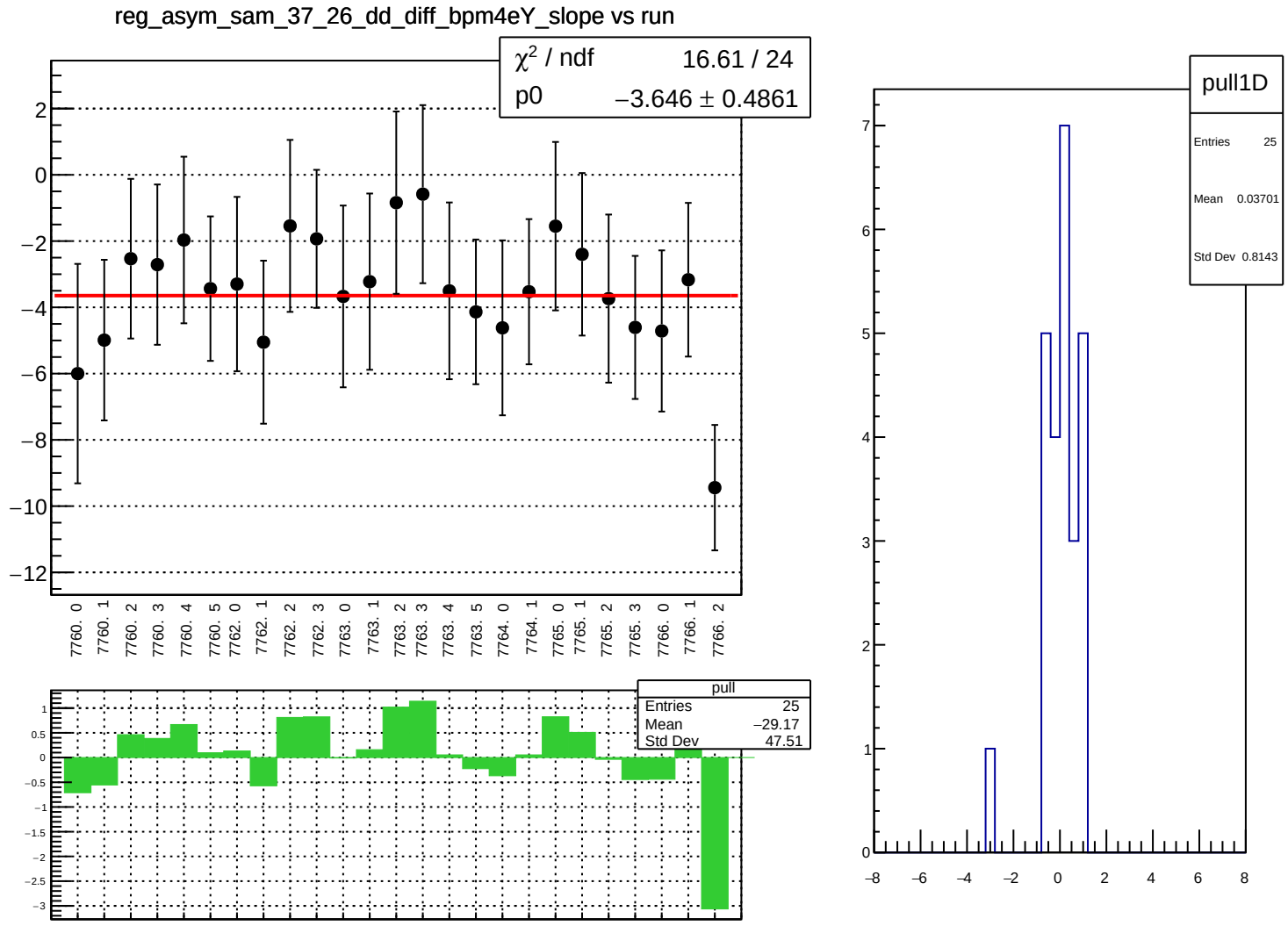

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 0.471 / 24
p0 −0.3606 ± 0.08793
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −616.9
Std Dev 633.4
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 25
Mean 0.0002792
Std Dev 0.1373
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

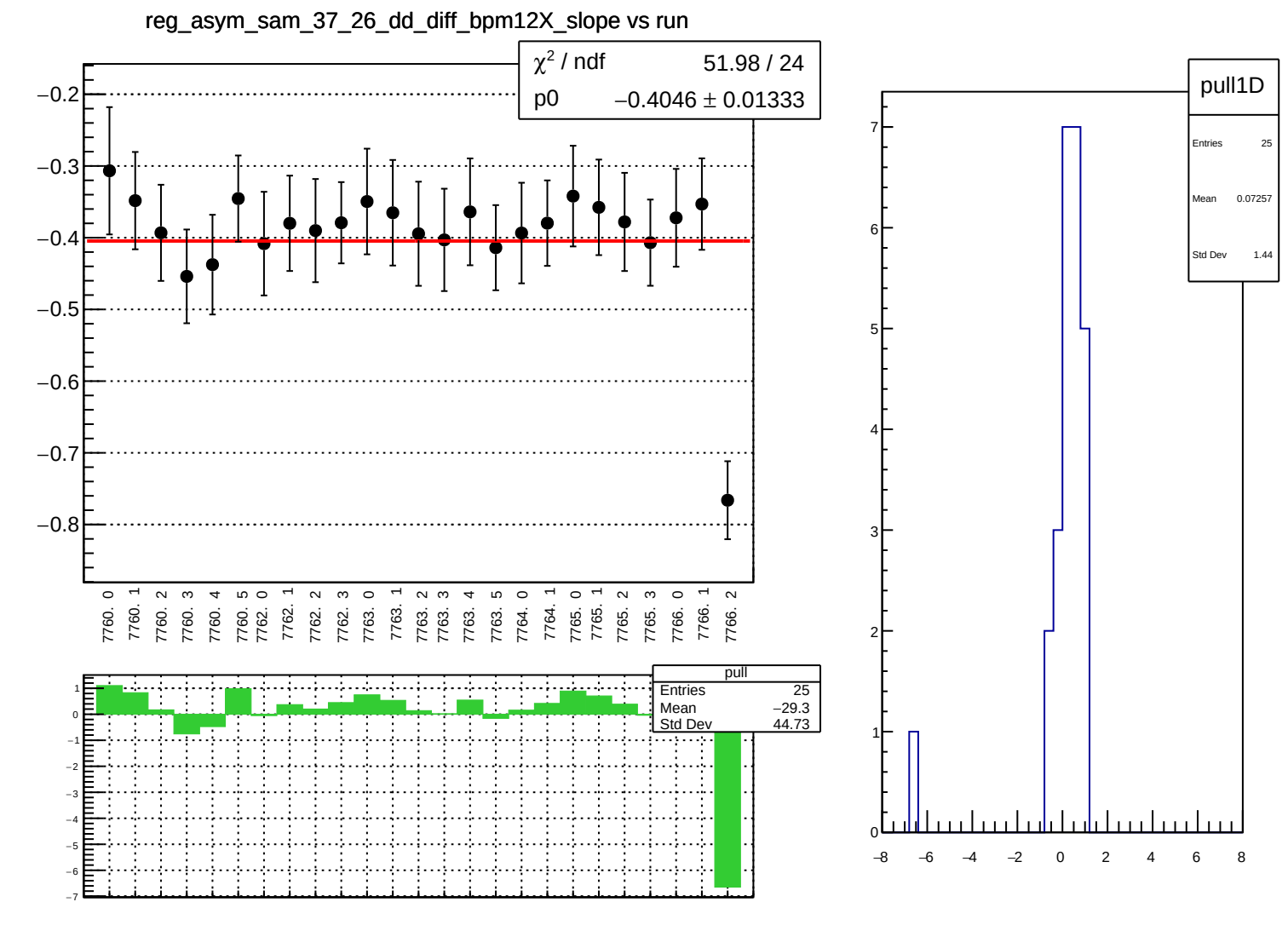

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 122.9 / 24
p0 −1.691 ± 0.4056
5
0
−5
−10
−15
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −10.5
Std Dev 25.68
0
−2
−4
−6
−8
−10

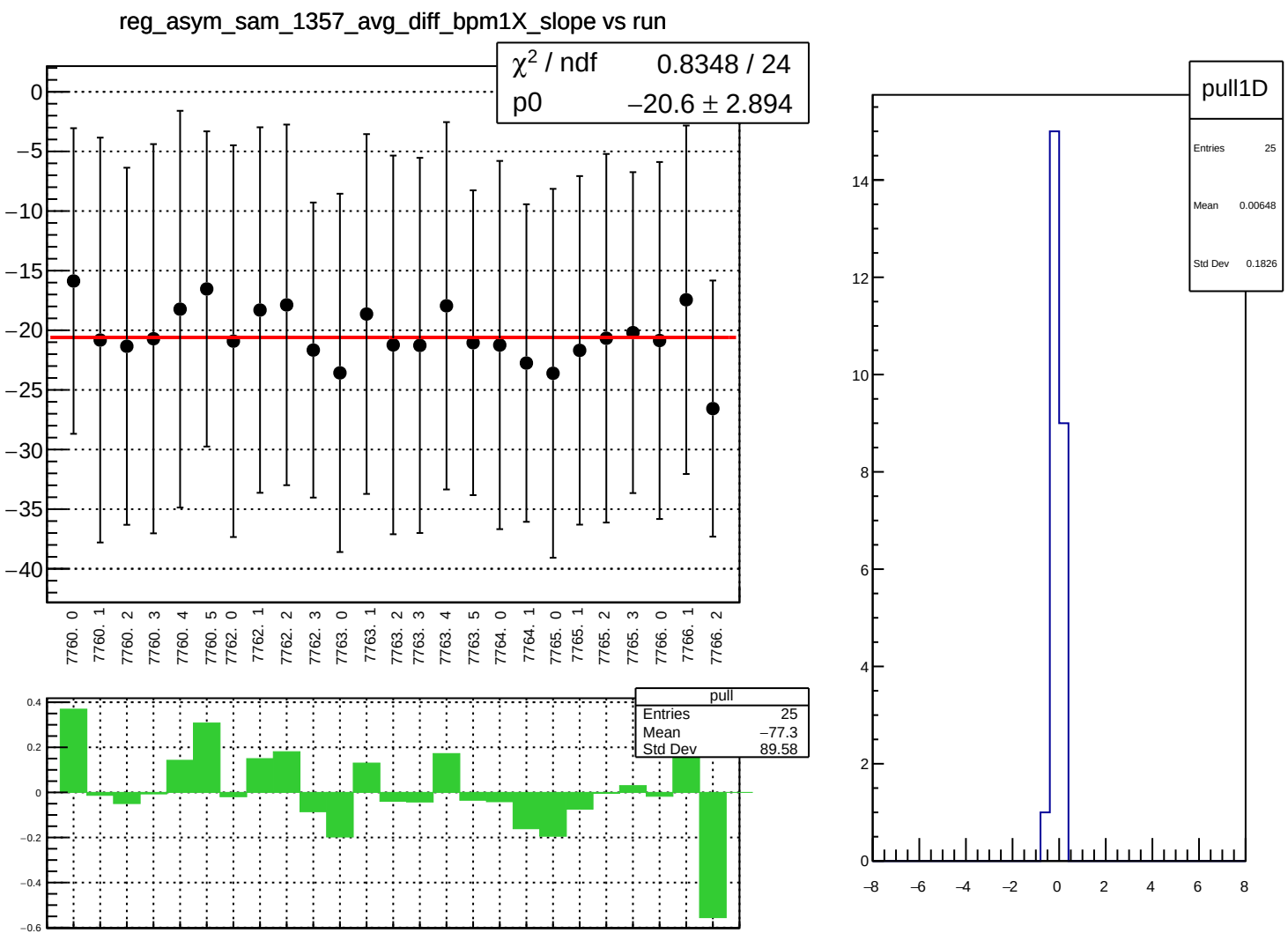

pull1D
Entries 25
Mean 0.6655
Std Dev 0.3154
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

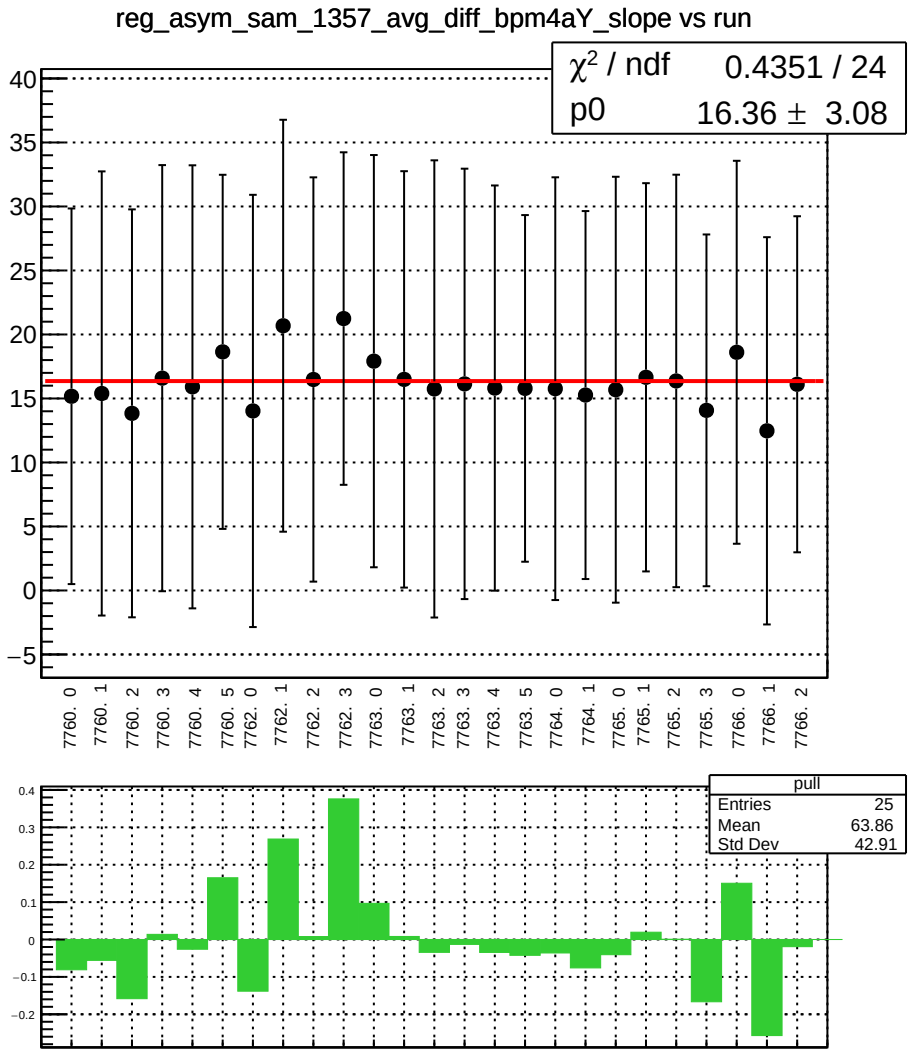

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 17.48 / 24
p0 23.85 ± 0.4315
32
30
28
26
24
22
20
18
16
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −35.98
Std Dev 50.31
3
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 25
Mean −0.05342
Std Dev 0.8345
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

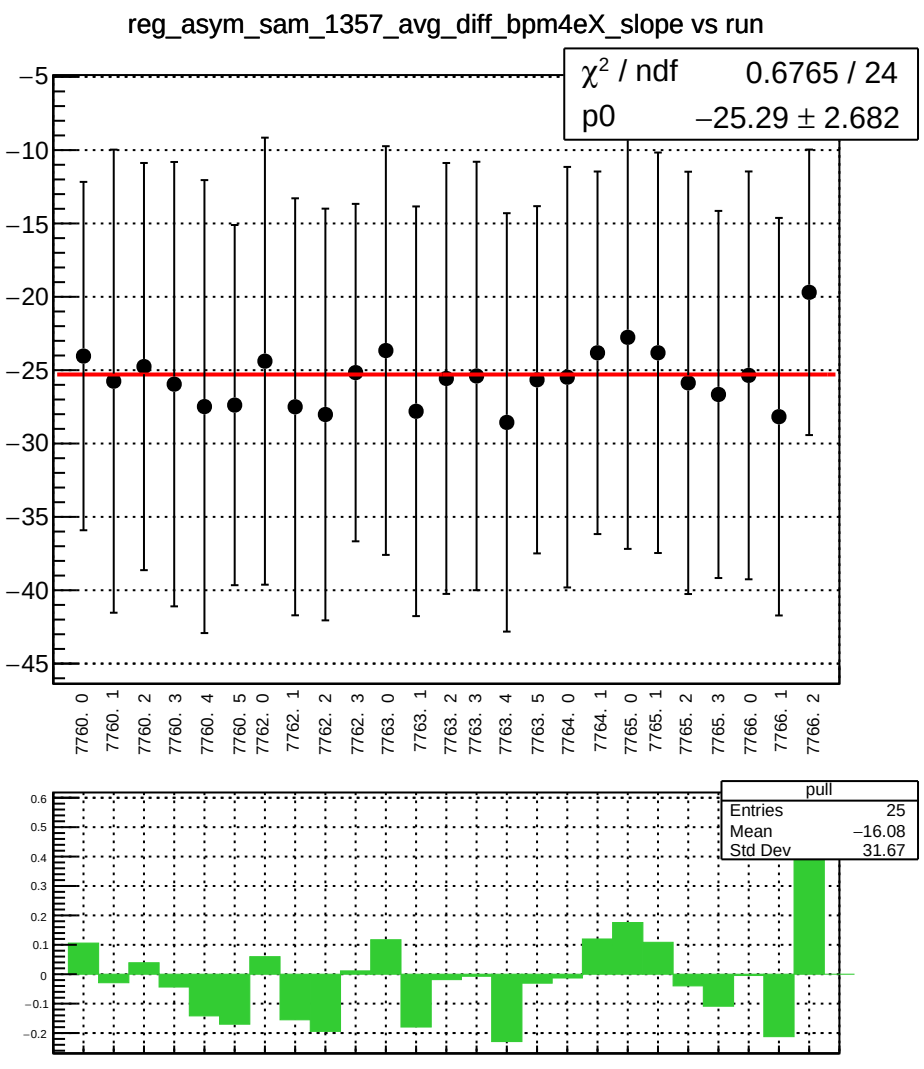

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 156.4 / 24
p0 −3.935 ± 0.3757
10
5
0
−5
−10
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −10.23
Std Dev 25.13
12
10
8
6
4
2
0
−2
pull1D
Entries 25
Mean −0.7721
Std Dev 0.3884
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

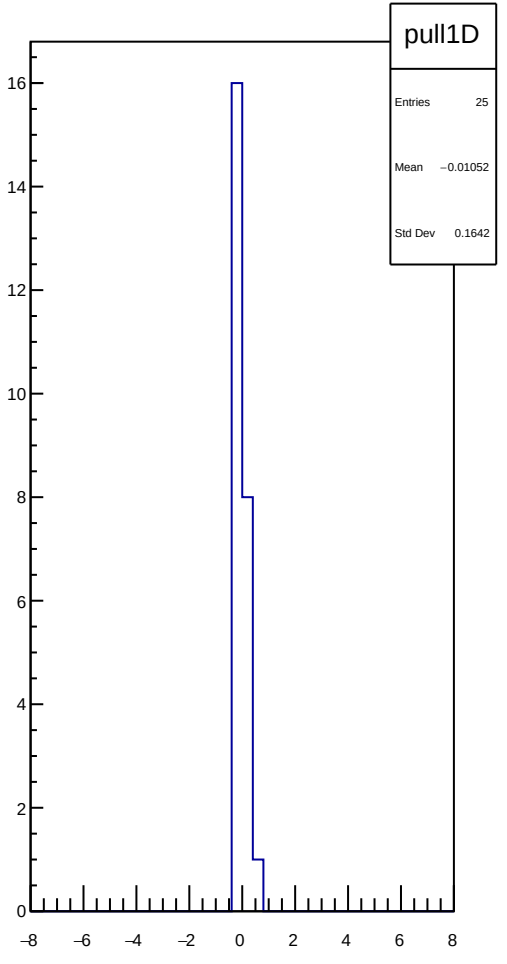

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 16.61 / 24
p0 −3.646 ± 0.4861
2
0
−2
−4
−6
−8
−10
−12
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −29.17
Std Dev 47.51
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
pull1D
Entries 25
Mean 0.03701
Std Dev 0.8143
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

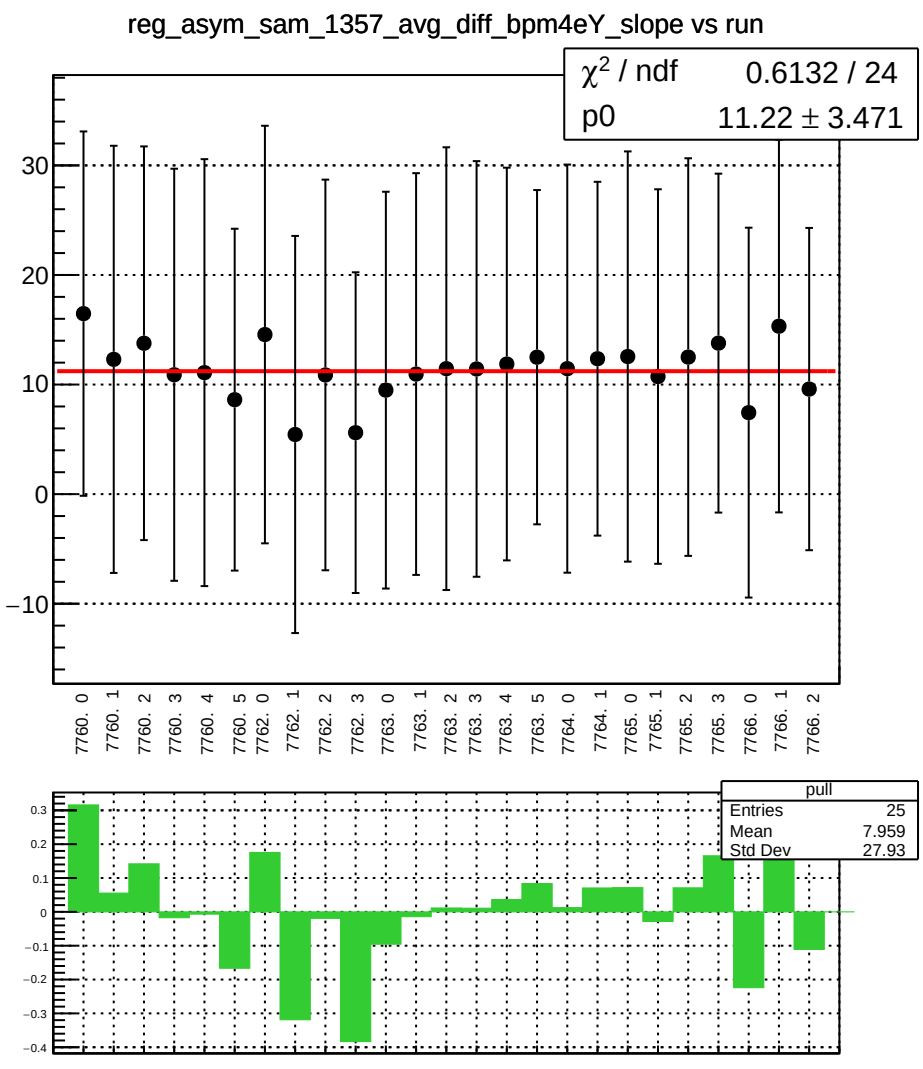

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 51.98 / 24
p0 −0.4046 ± 0.01333
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
−0.8
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −29.3
Std Dev 44.73
pull1D
Entries 25
Mean 0.07257
Std Dev 1.44

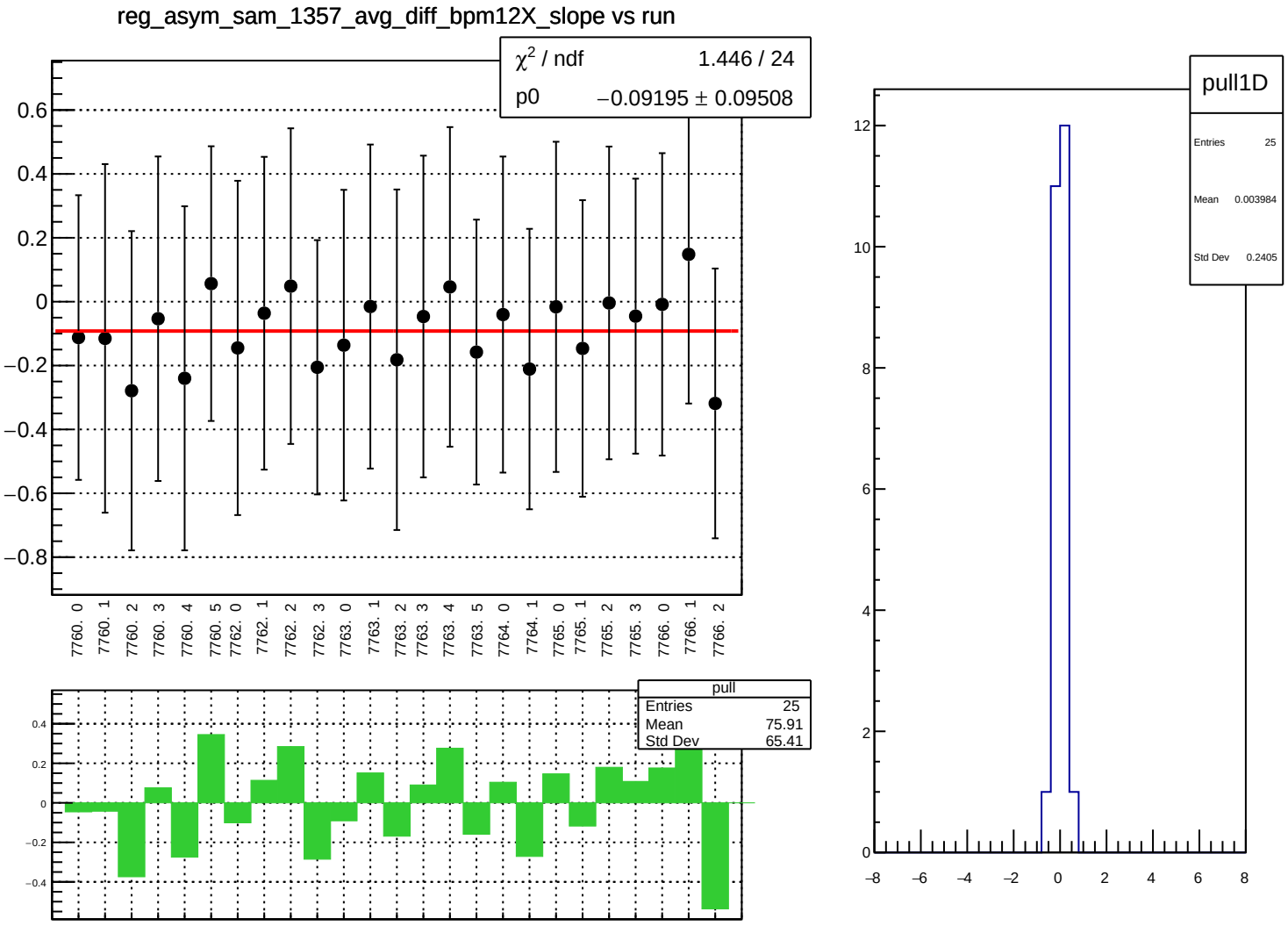

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 0.8348 / 24
p0 −20.6 ± 2.894
0
−5
−10
−15
−20
−25
−30
−35
−40
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −77.3
Std Dev 89.58
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 25
Mean 0.00648
Std Dev 0.1826
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

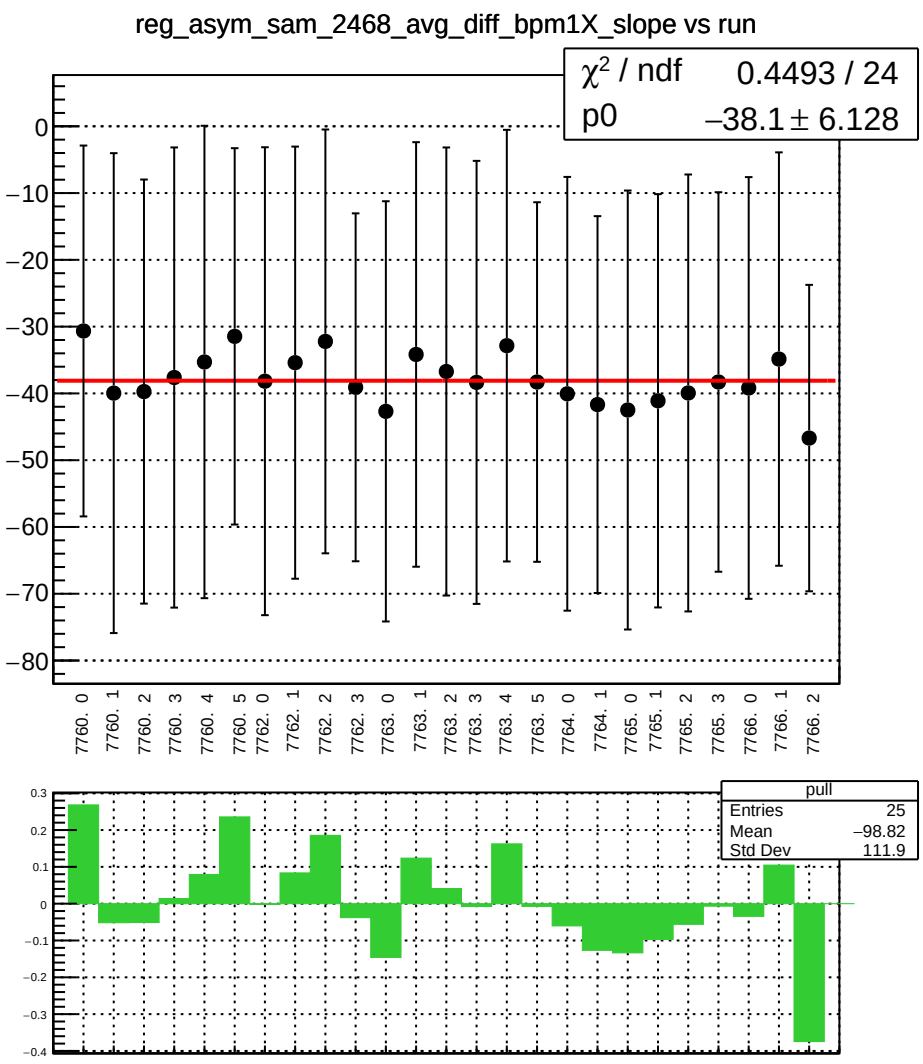

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.4351 / 24
p0 16.36 ± 3.08
pull
Entries 25
Mean 63.86
Std Dev 42.91
pull1D
Entries 25
Mean −0.002853
Std Dev 0.1319

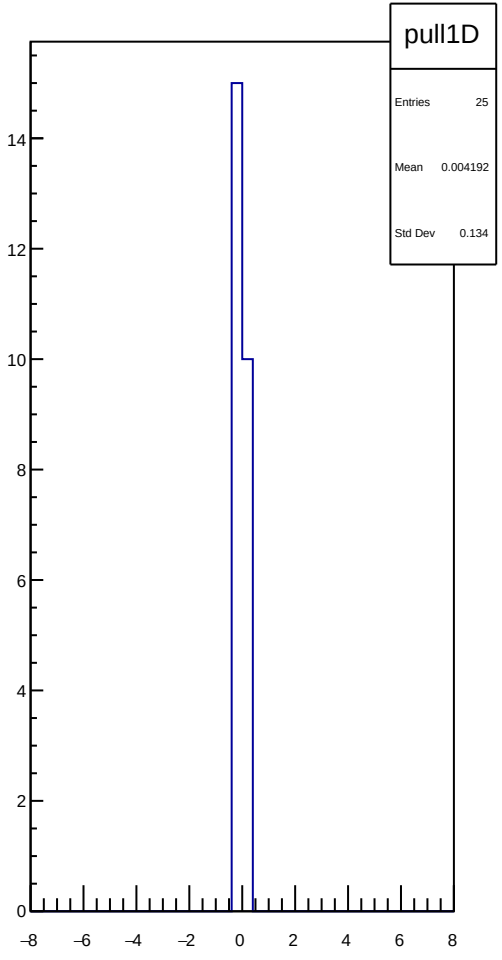

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 0.6765 / 24
p0 −25.29 ± 2.682
−5
−10
−15
−20
−25
−30
−35
−40
−45
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −16.08
Std Dev 31.67
0.6
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2

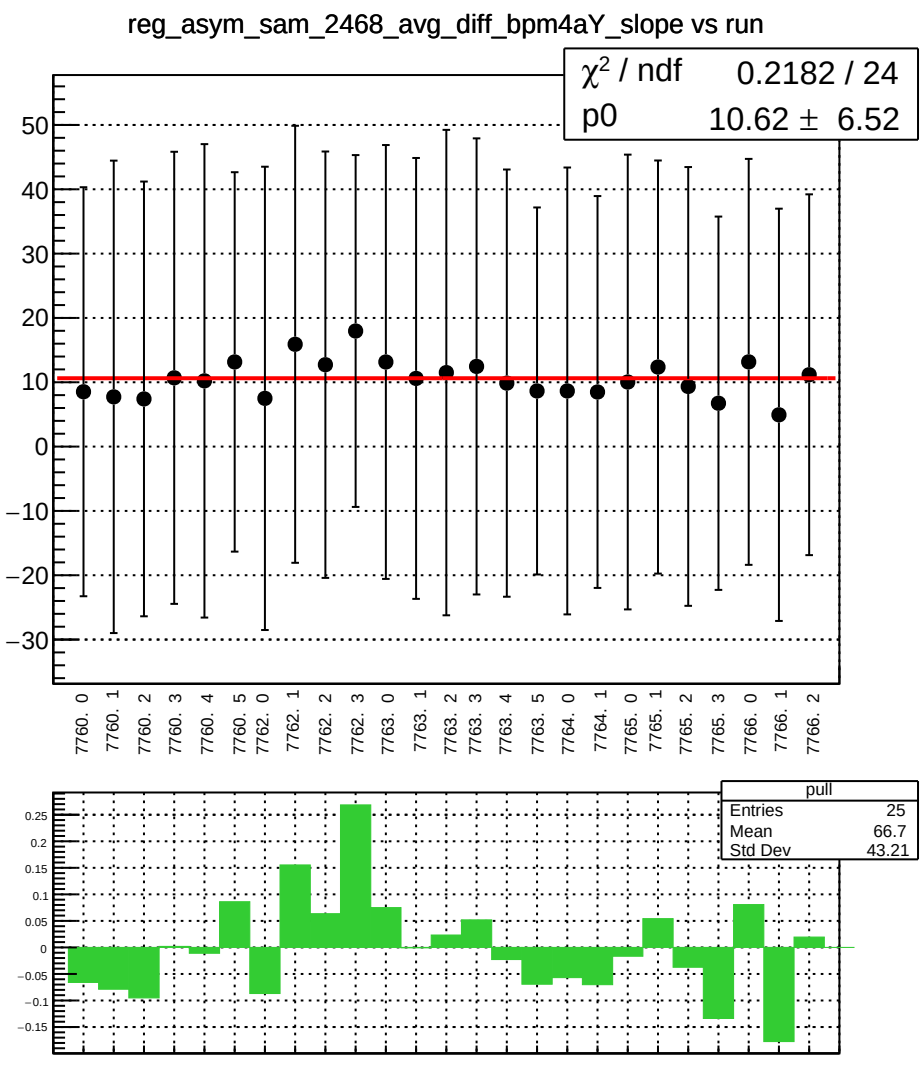

pull1D
Entries 25
Mean −0.01052
Std Dev 0.1642
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

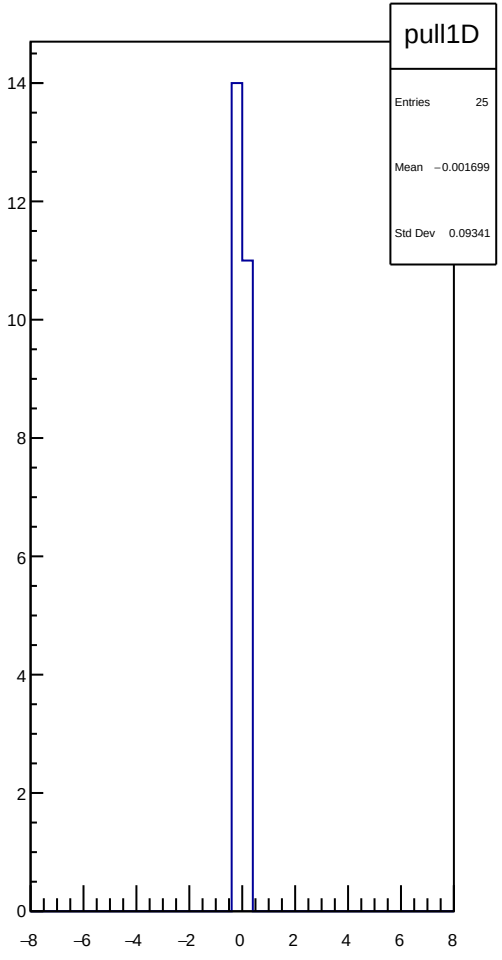

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.6132 / 24
p0 11.22 ± 3.471
30
20
10
0
−10
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 7.959
Std Dev 27.93
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 25
Mean 0.003171
Std Dev 0.1566
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

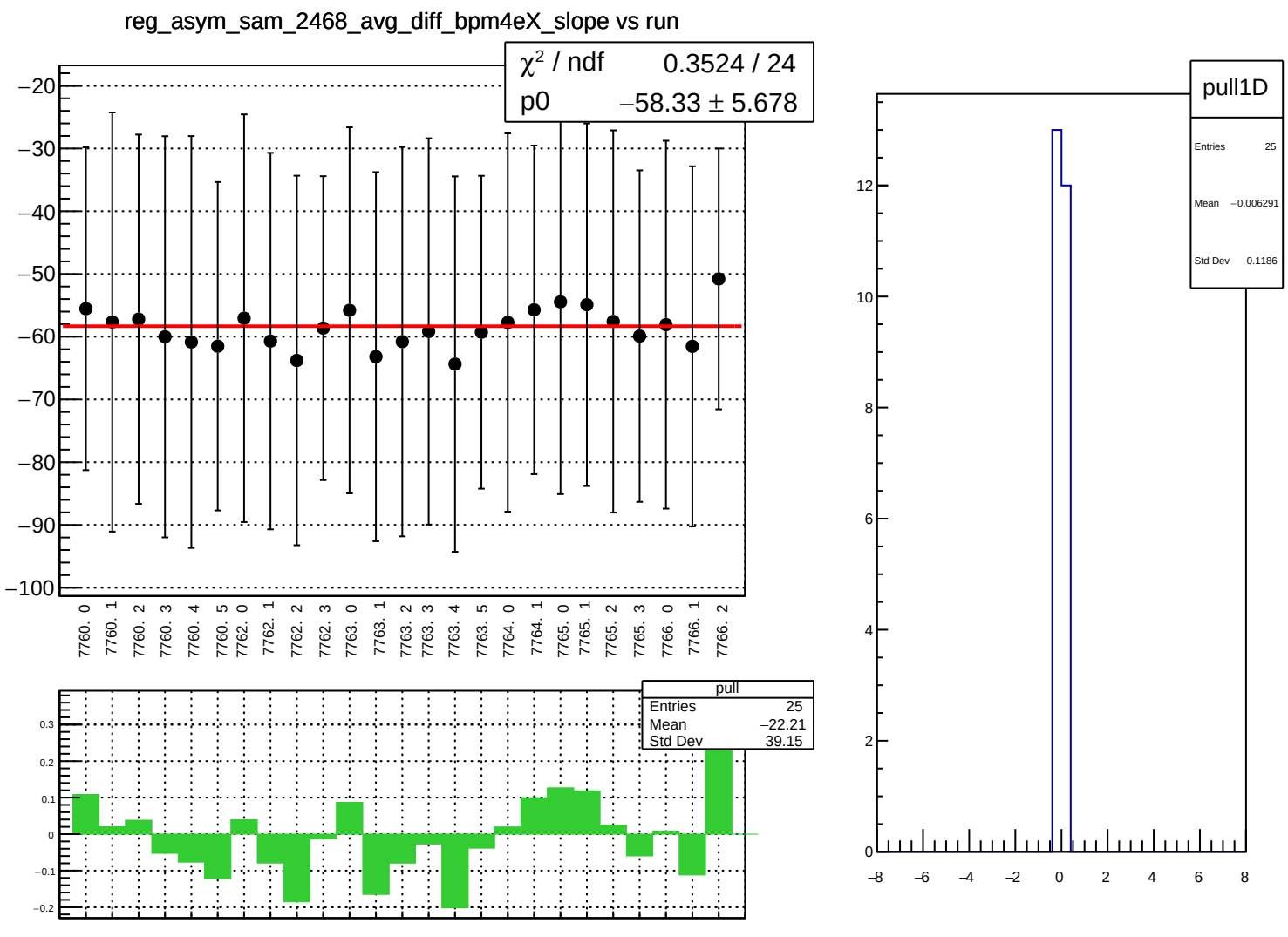

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 1.446 / 24
p0 −0.09195 ± 0.09508
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 75.91
Std Dev 65.41
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 25
Mean 0.003984
Std Dev 0.2405
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

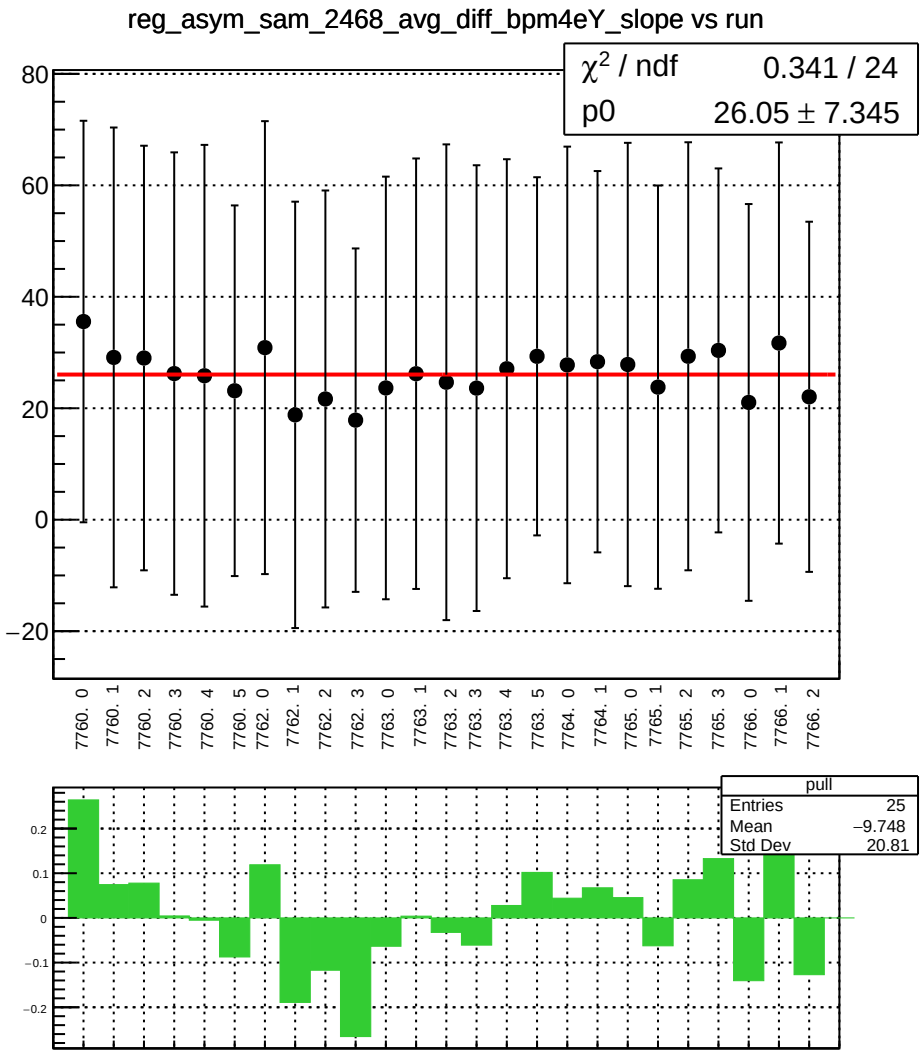

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 0.4493 / 24
p0 –38.1 ± 6.128
0
–10
–20
–30
–40
–50
–60
–70
–80
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean –98.82
Std Dev 111.9
0.3
0.2
0.1
0
–0.1
–0.2
–0.3
–0.4

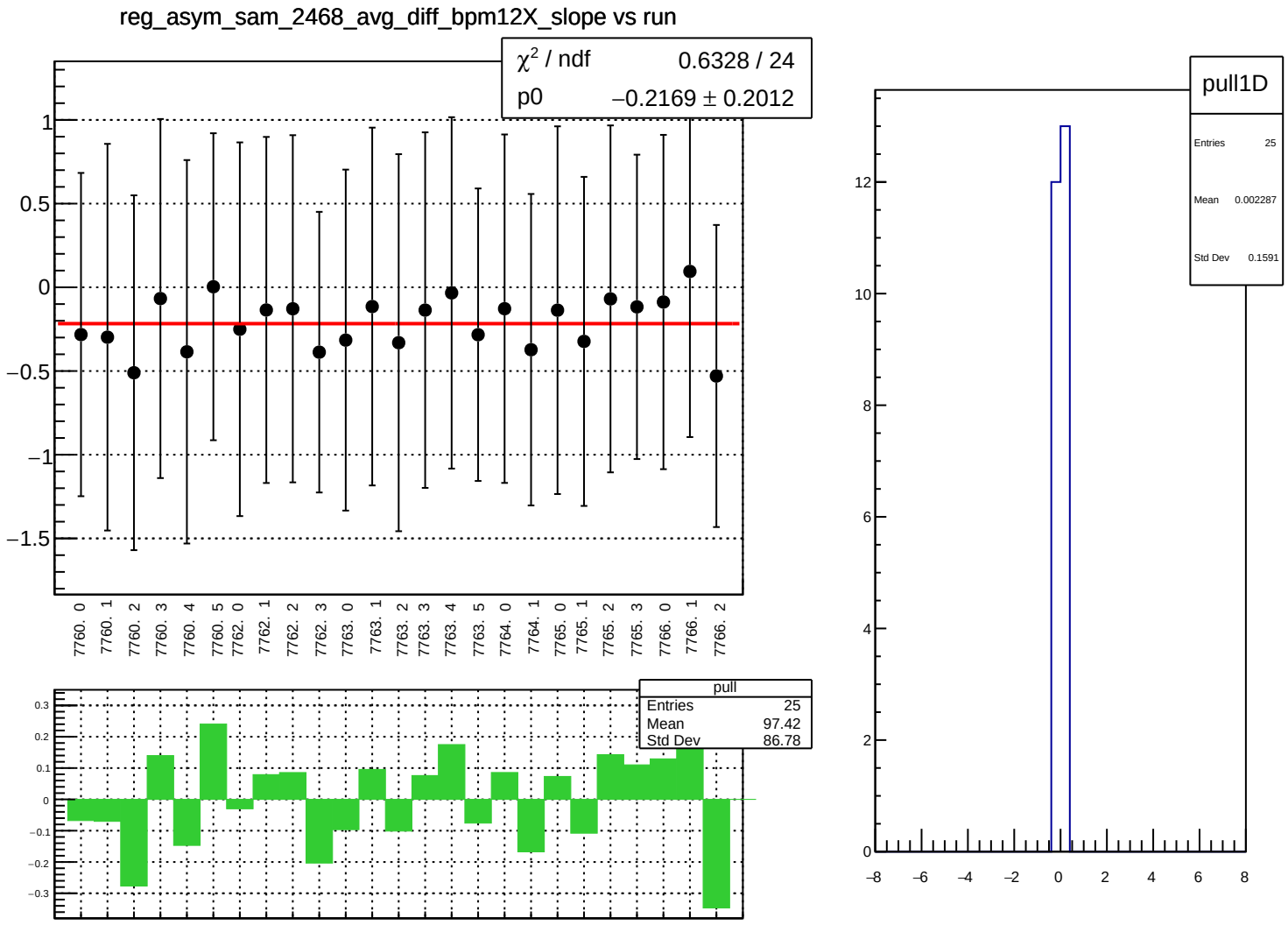

pull1D
Entries 25
Mean 0.004192
Std Dev 0.134
14
12
10
8
6
4
2
0
–8
–6
–4
–2
0
2
4
6
8

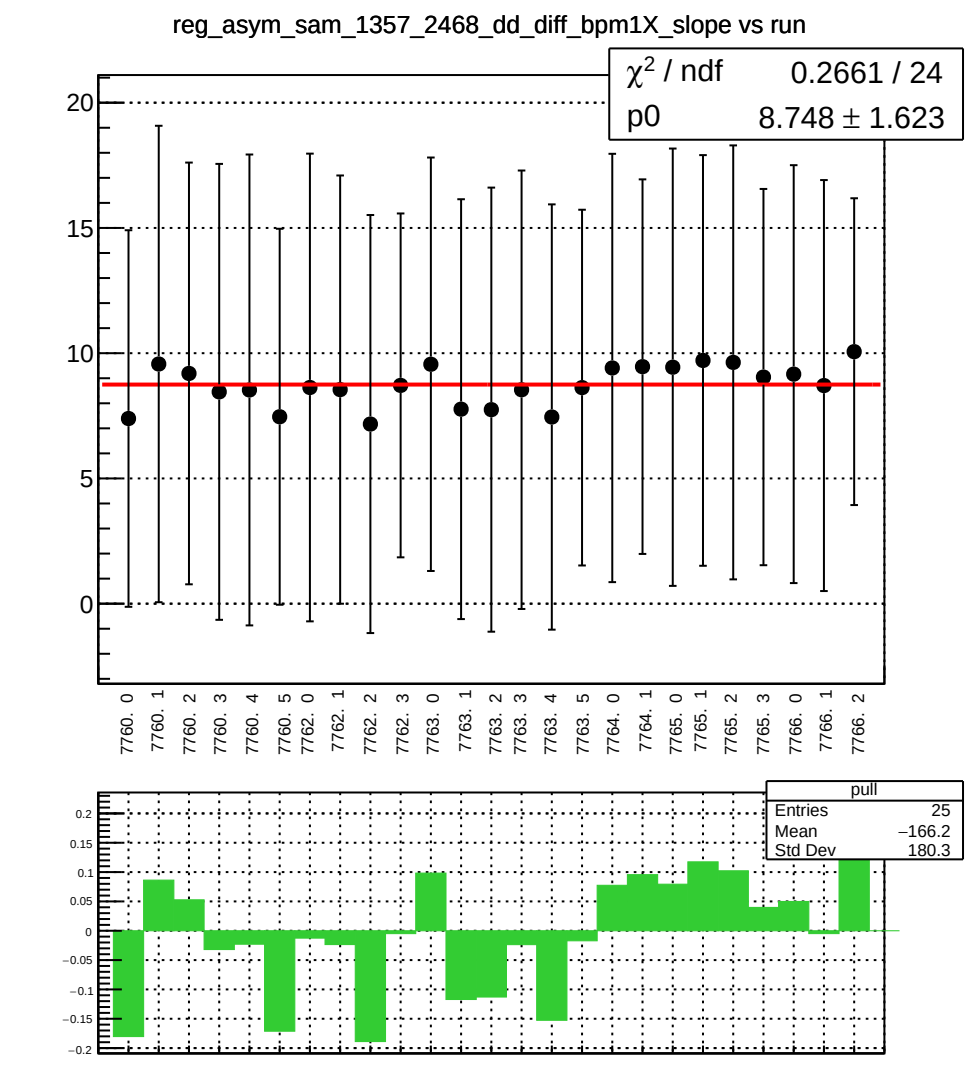

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.2182 / 24
p0 10.62 ± 6.52
50
40
30
20
10
0
−10
−20
−30
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 66.7
Std Dev 43.21
0.25
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15

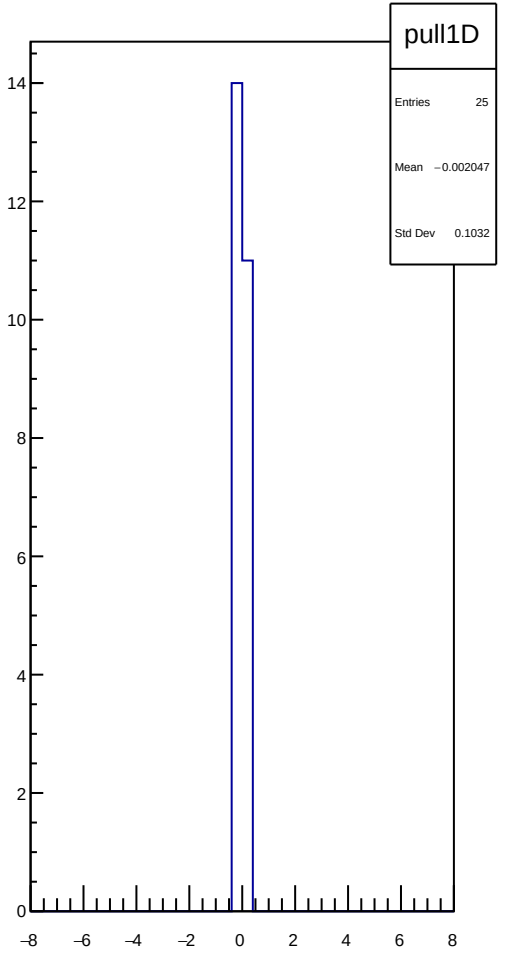

pull1D
Entries 25
Mean −0.001699
Std Dev 0.09341
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

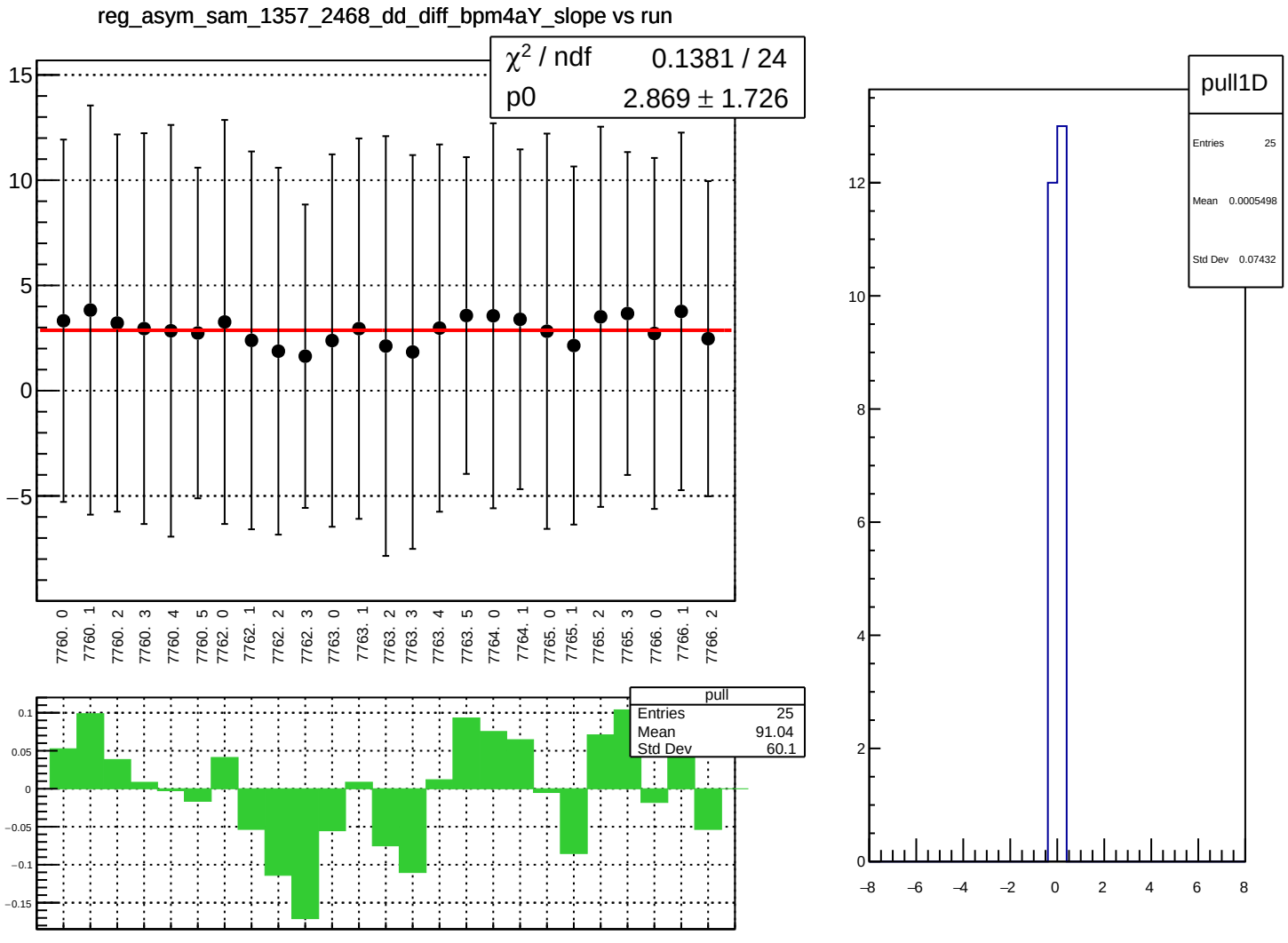

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 0.3524 / 24
p0 −58.33 ± 5.678
−20
−30
−40
−50
−60
−70
−80
−90
−100
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −22.21
Std Dev 39.15
0.3
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 25
Mean −0.006291
Std Dev 0.1186
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

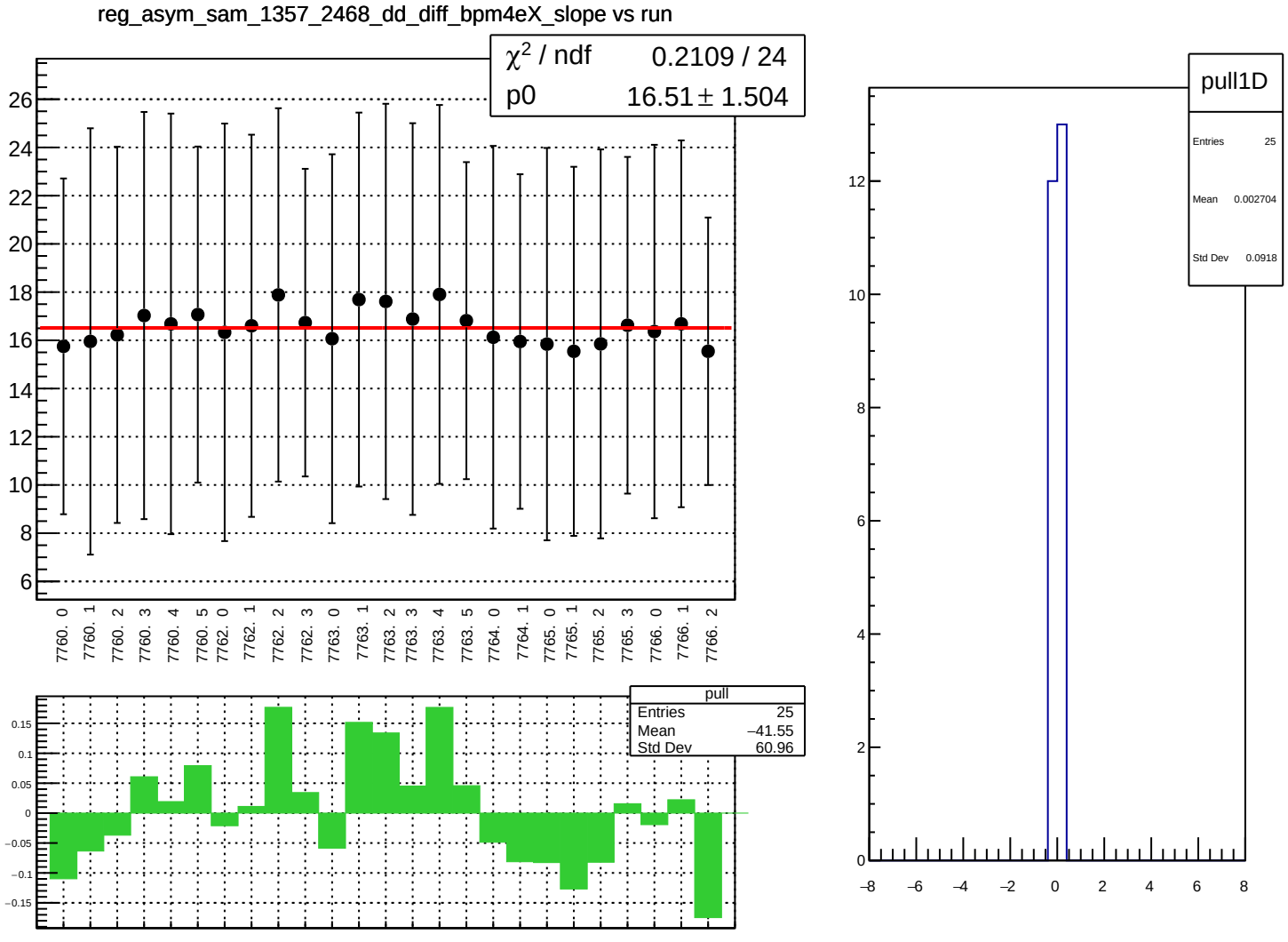

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.341 / 24
p0 26.05 ± 7.345
80
60
40
20
0
−20
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −9.748
Std Dev 20.81
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 25
Mean 0.002174
Std Dev 0.1168
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

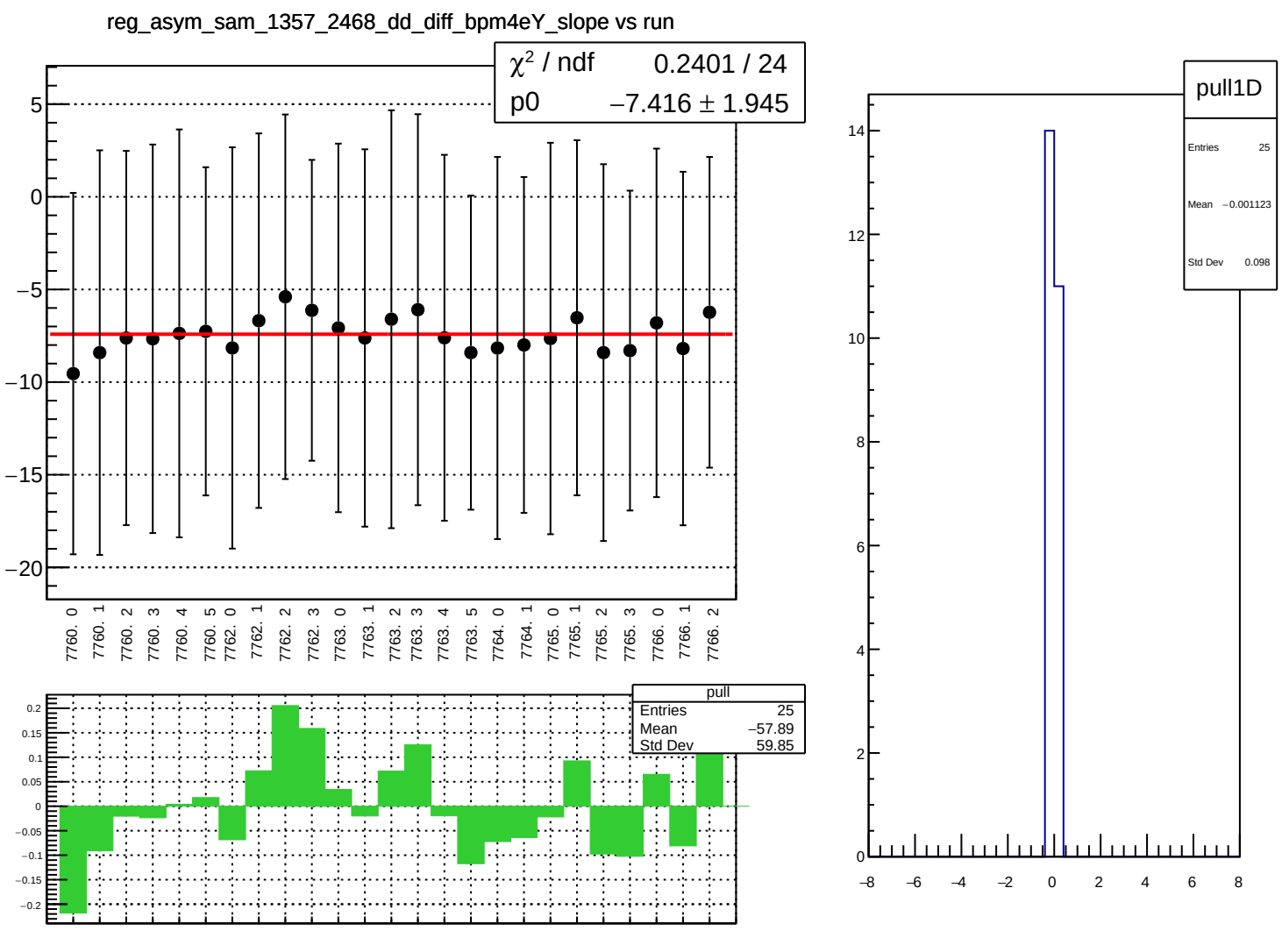

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 0.6328 / 24
p0 −0.2169 ± 0.2012
1
0.5
0
−0.5
−1
−1.5
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 97.42
Std Dev 86.78
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 25
Mean 0.002287
Std Dev 0.1591
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

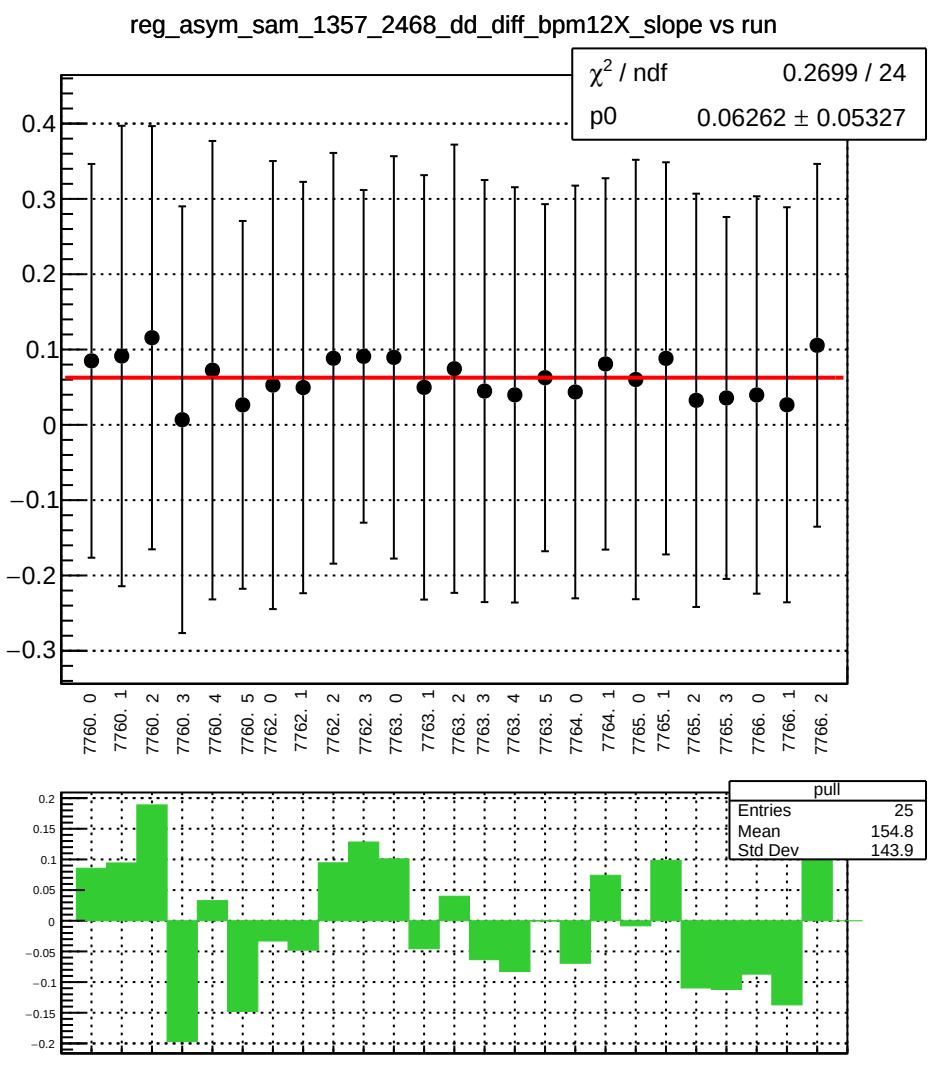

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 0.2661 / 24
p0 8.748 ± 1.623
20
15
10
5
0
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −166.2
Std Dev 180.3
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2

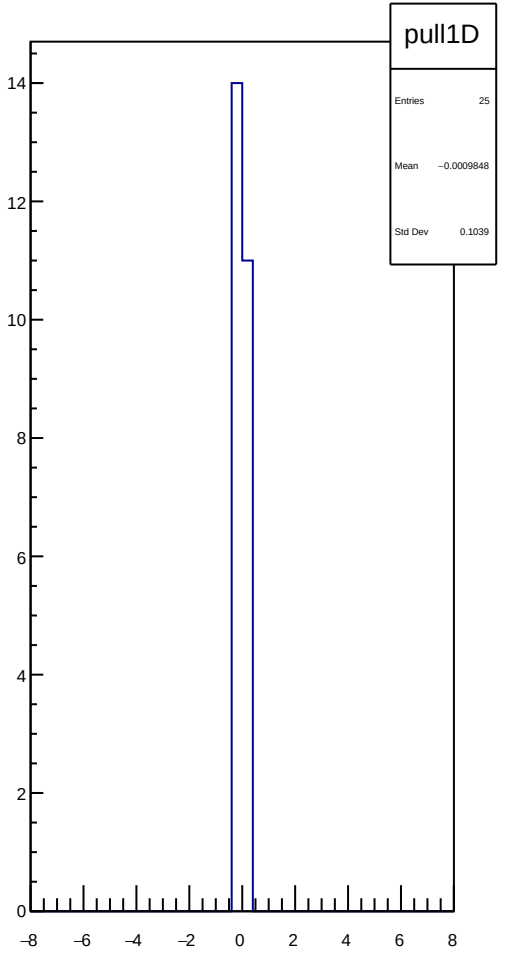

pull1D
Entries 25
Mean −0.002047
Std Dev 0.1032
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

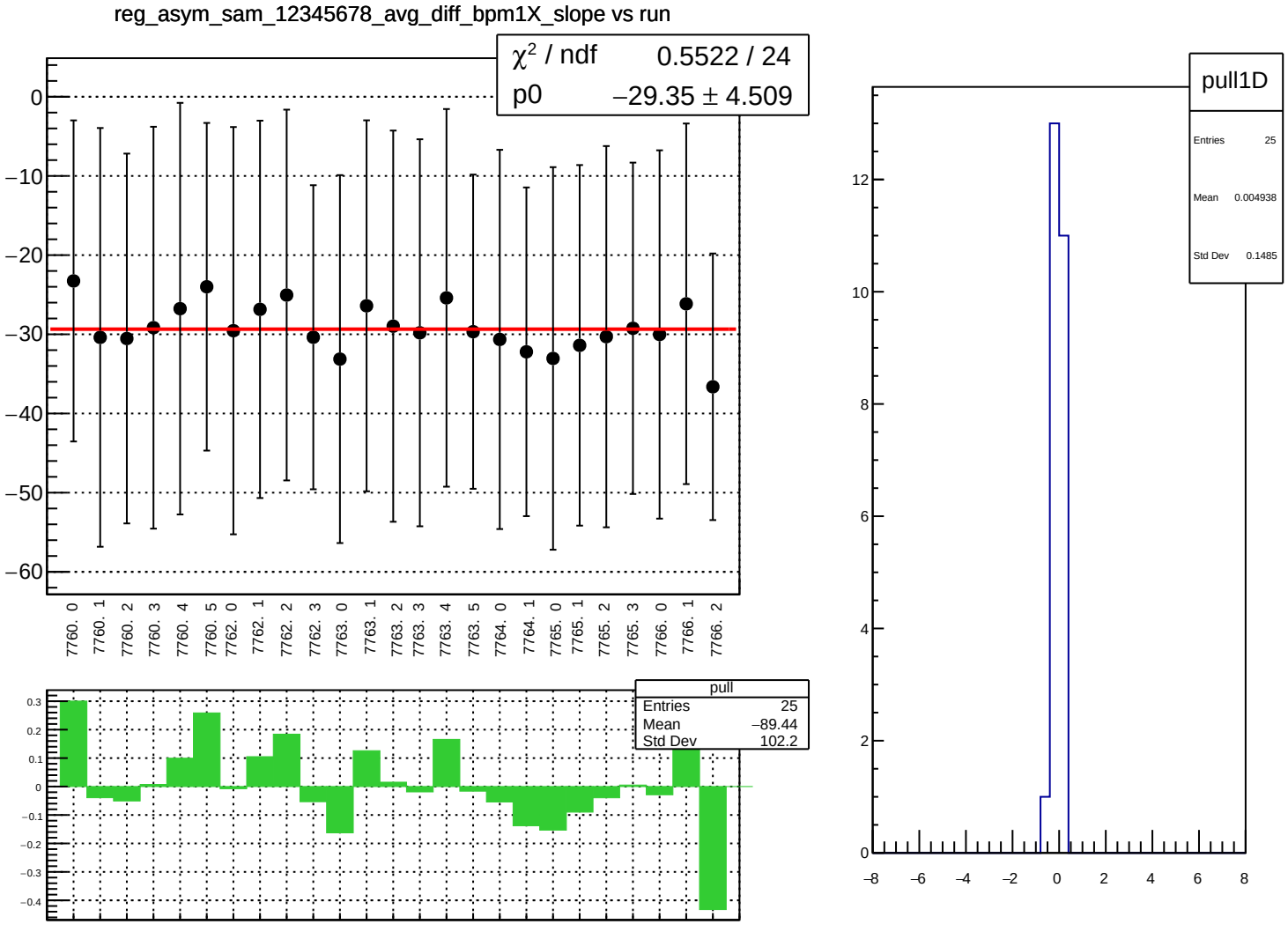

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.1381 / 24
p0 2.869 ± 1.726
15
10
5
0
−5
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 91.04
Std Dev 60.1
0.1
0.05
0
−0.05
−0.1
−0.15
pull1D
Entries 25
Mean 0.0005498
Std Dev 0.07432
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

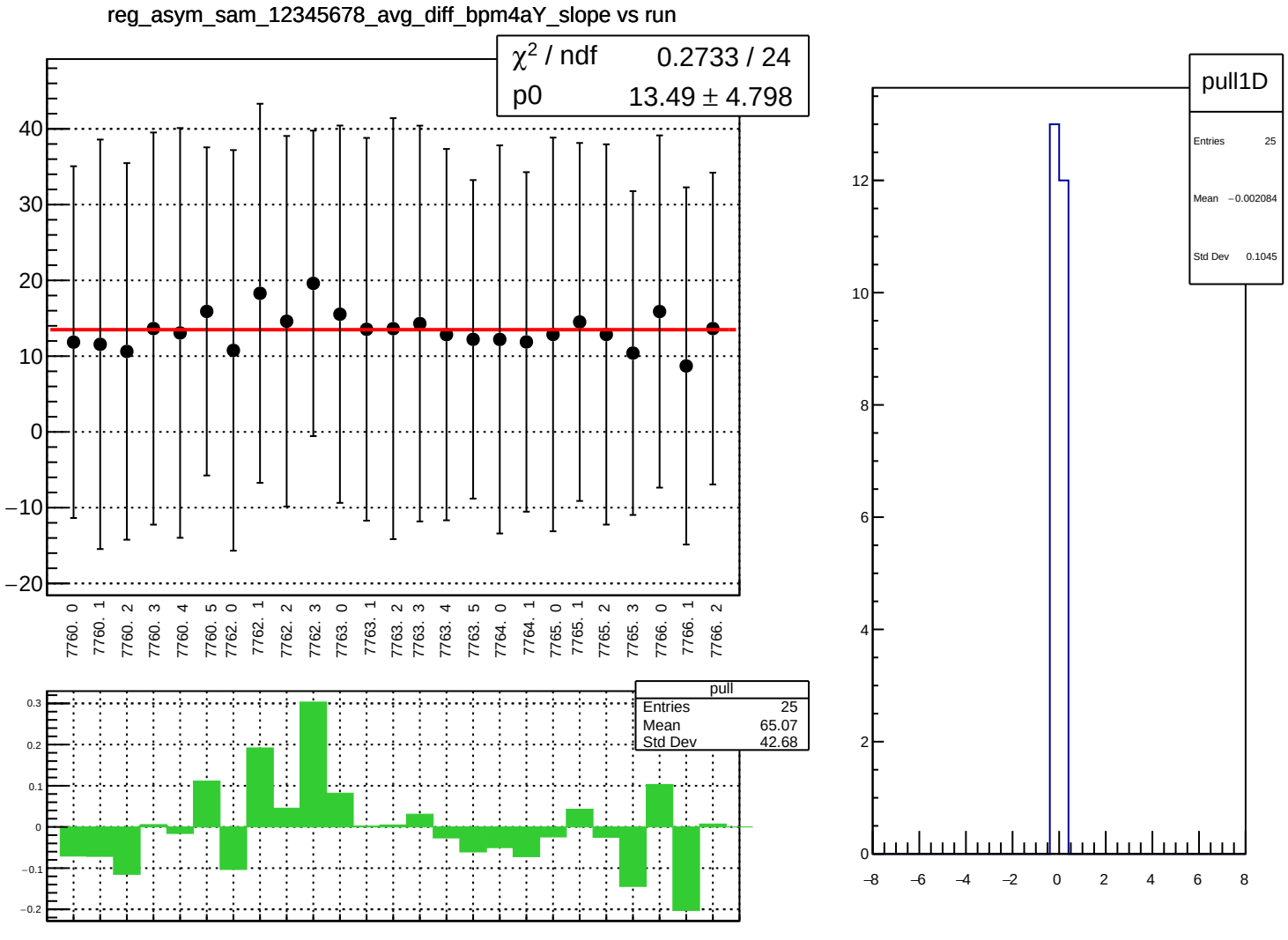

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.2109 / 24
p0 16.51 ± 1.504
pull
Entries 25
Mean −41.55
Std Dev 60.96
pull1D
Entries 25
Mean 0.002704
Std Dev 0.0918

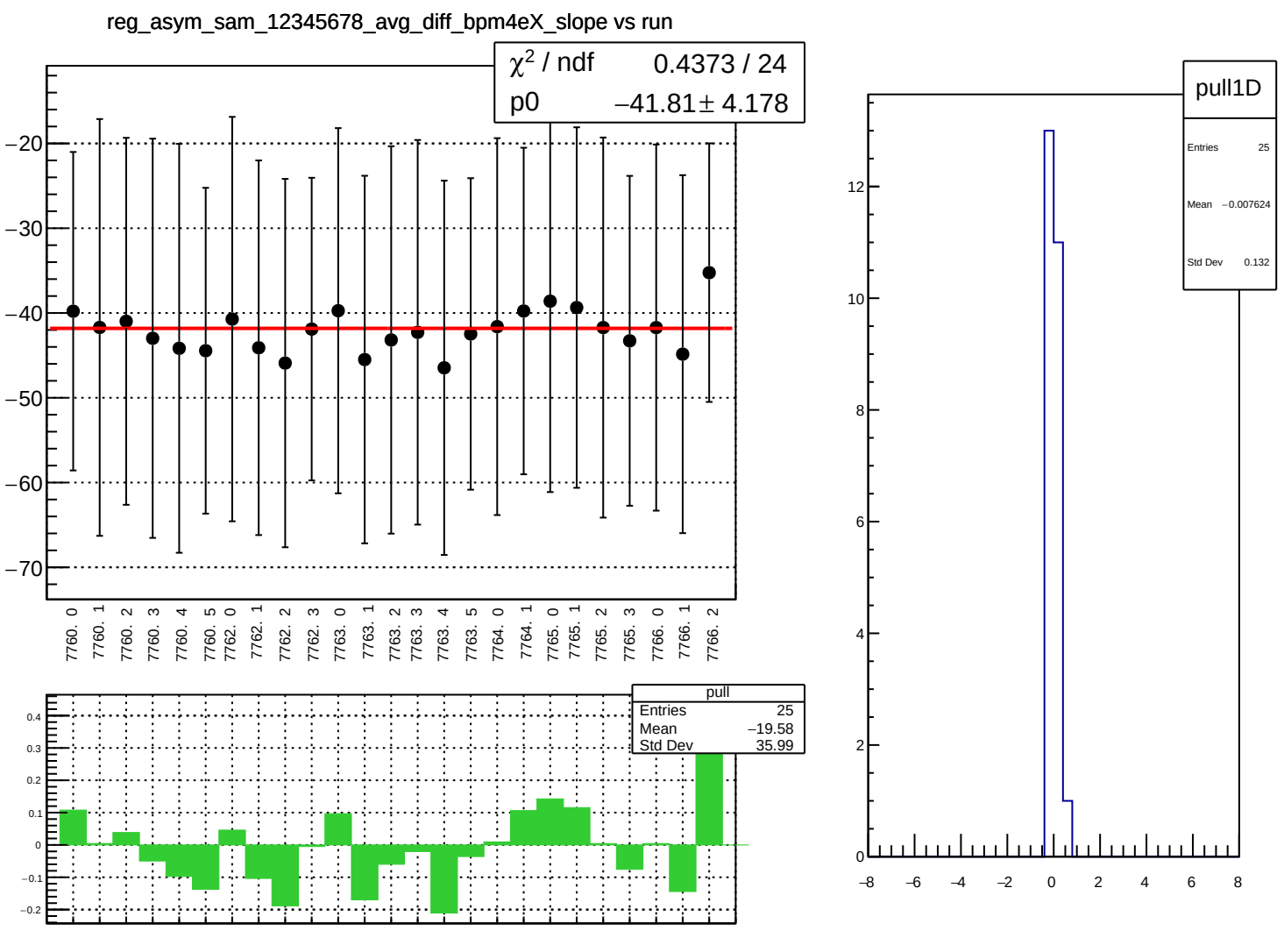

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.2401 / 24
p0 −7.416 ± 1.945
5
0
−5
−10
−15
−20
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −57.89
Std Dev 59.85
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
pull1D
Entries 25
Mean −0.001123
Std Dev 0.098
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

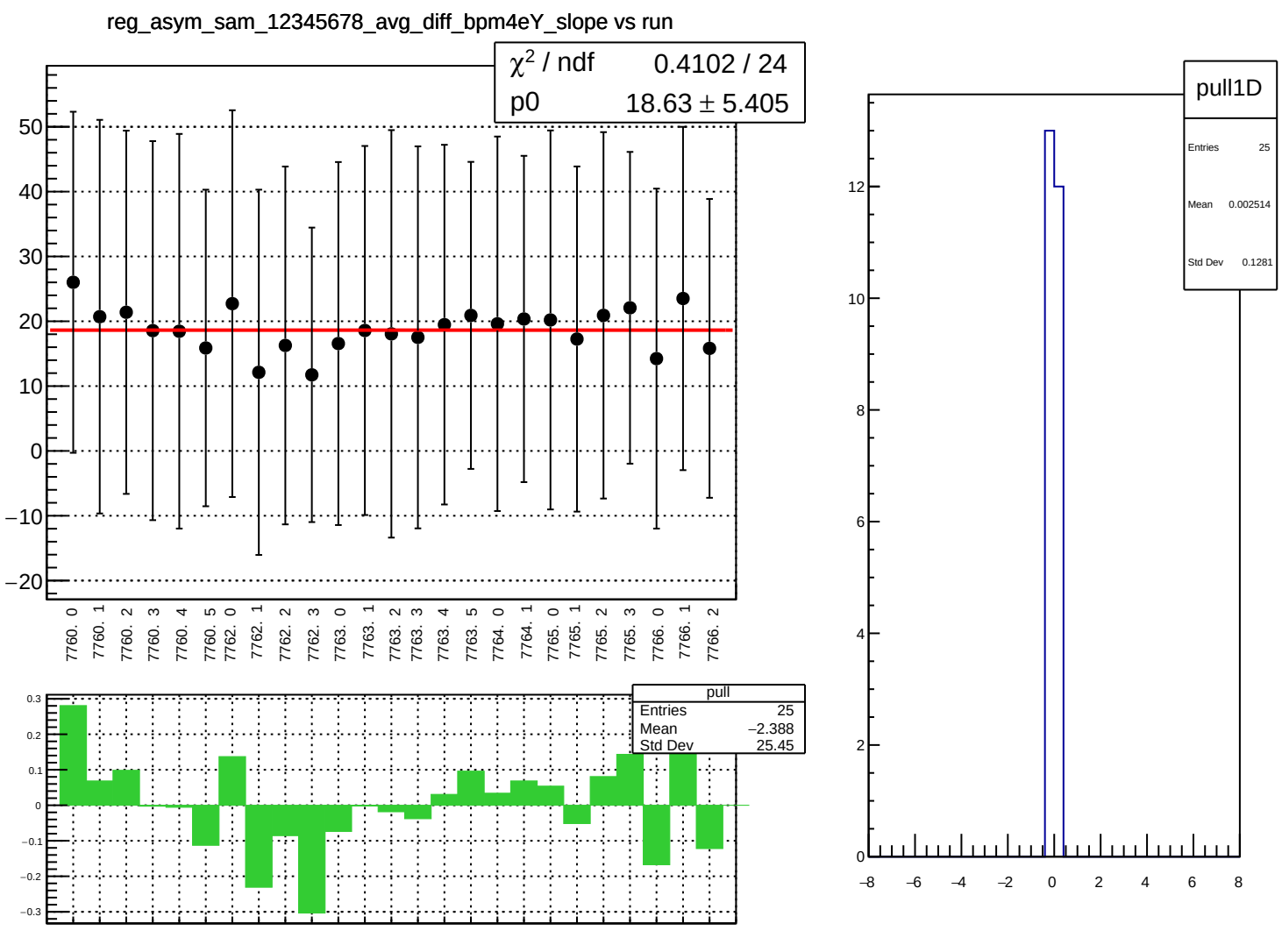

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 0.2699 / 24
p0 0.06262 ± 0.05327
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 154.8
Std Dev 143.9
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2

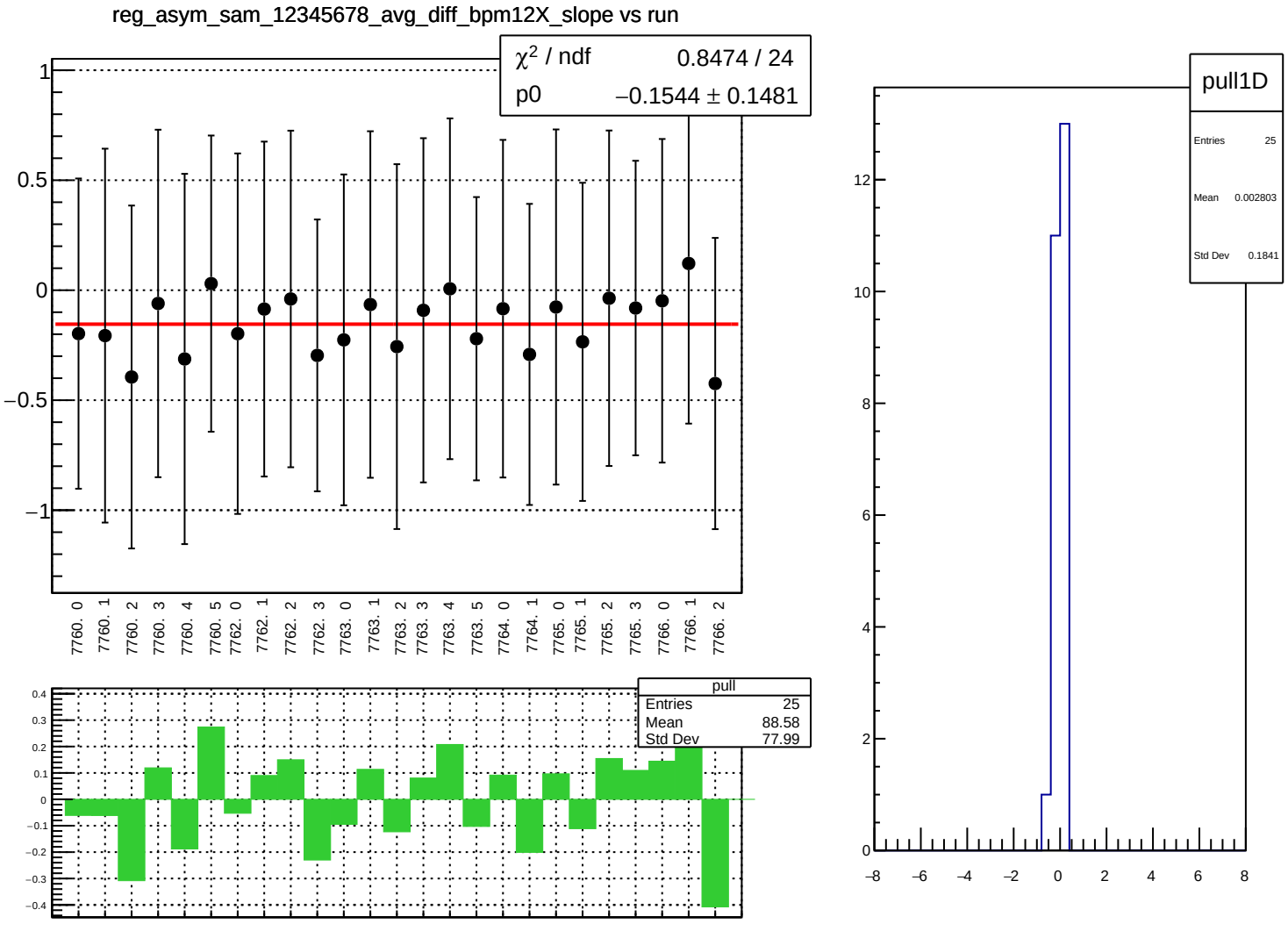

pull1D
Entries 25
Mean −0.0009848
Std Dev 0.1039
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

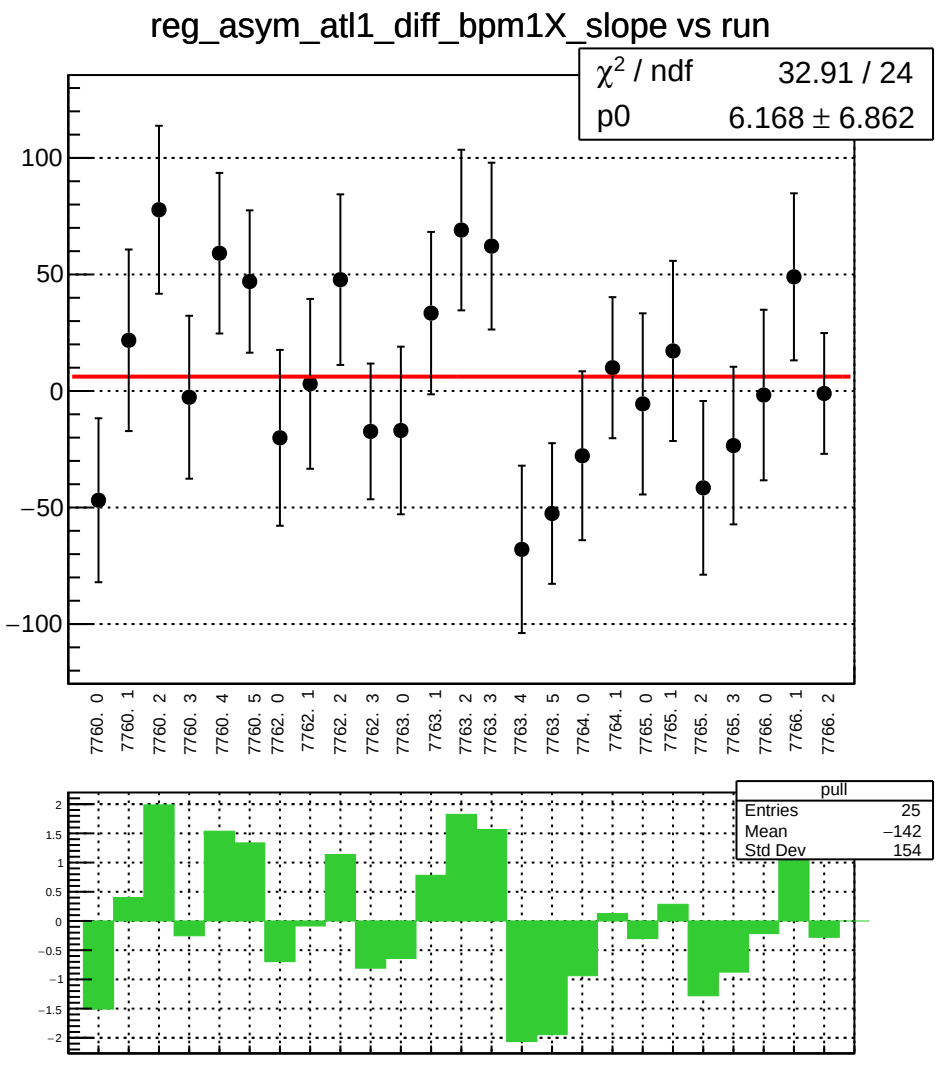

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 0.5522 / 24
p0 −29.35 ± 4.509
0
−10
−20
−30
−40
−50
−60
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −89.44
Std Dev 102.2
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 25
Mean 0.004938
Std Dev 0.1485
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

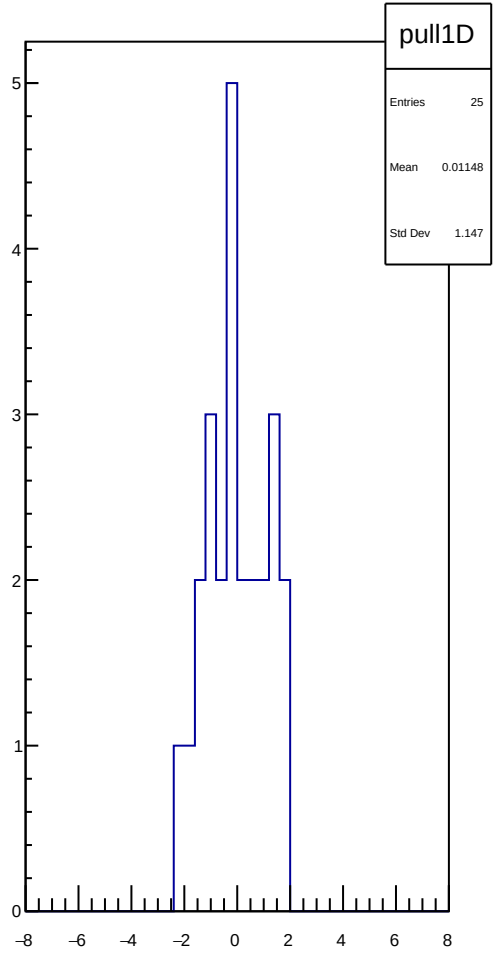

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.2733 / 24
p0 13.49 ± 4.798
40
30
20
10
0
−10
−20
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 65.07
Std Dev 42.68
0.3
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 25
Mean −0.002084
Std Dev 0.1045
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

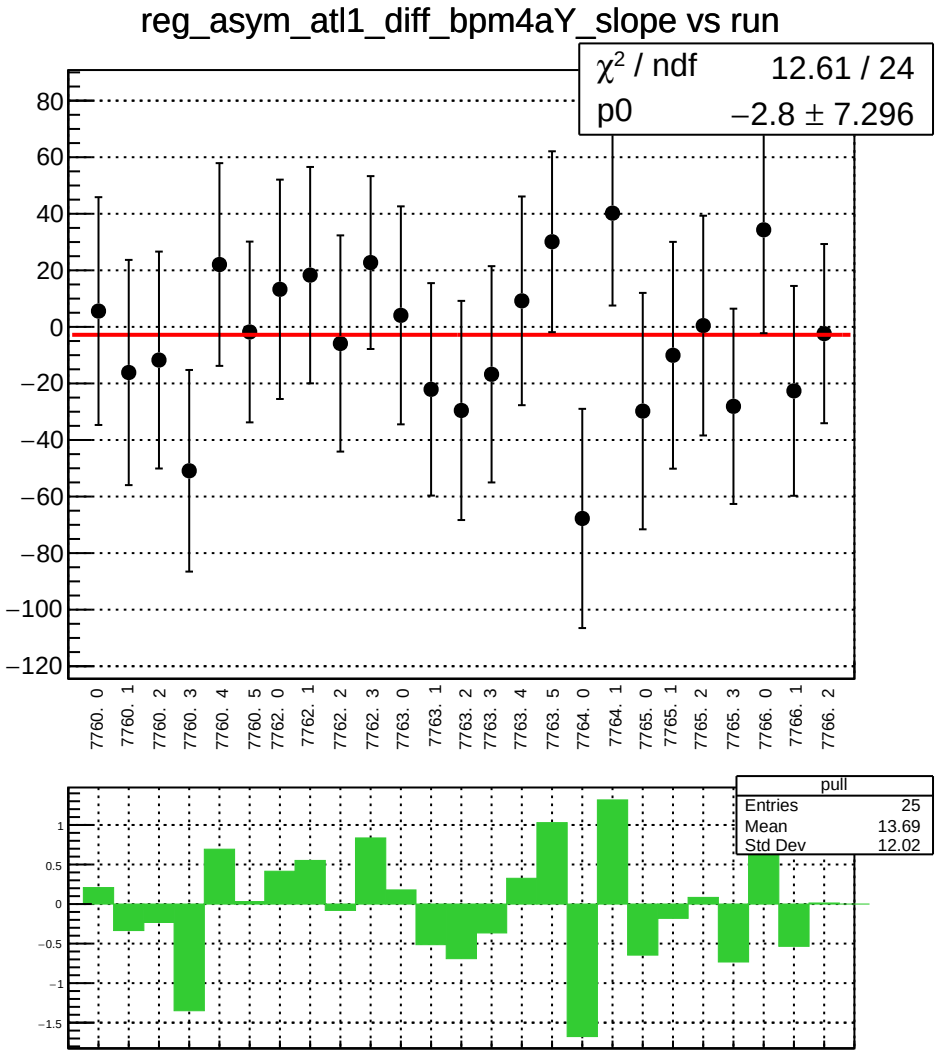

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 0.4373 / 24
p0 −41.81 ± 4.178
−20
−30
−40
−50
−60
−70
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −19.58
Std Dev 35.99
0.4
0.3
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 25
Mean −0.007624
Std Dev 0.132
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

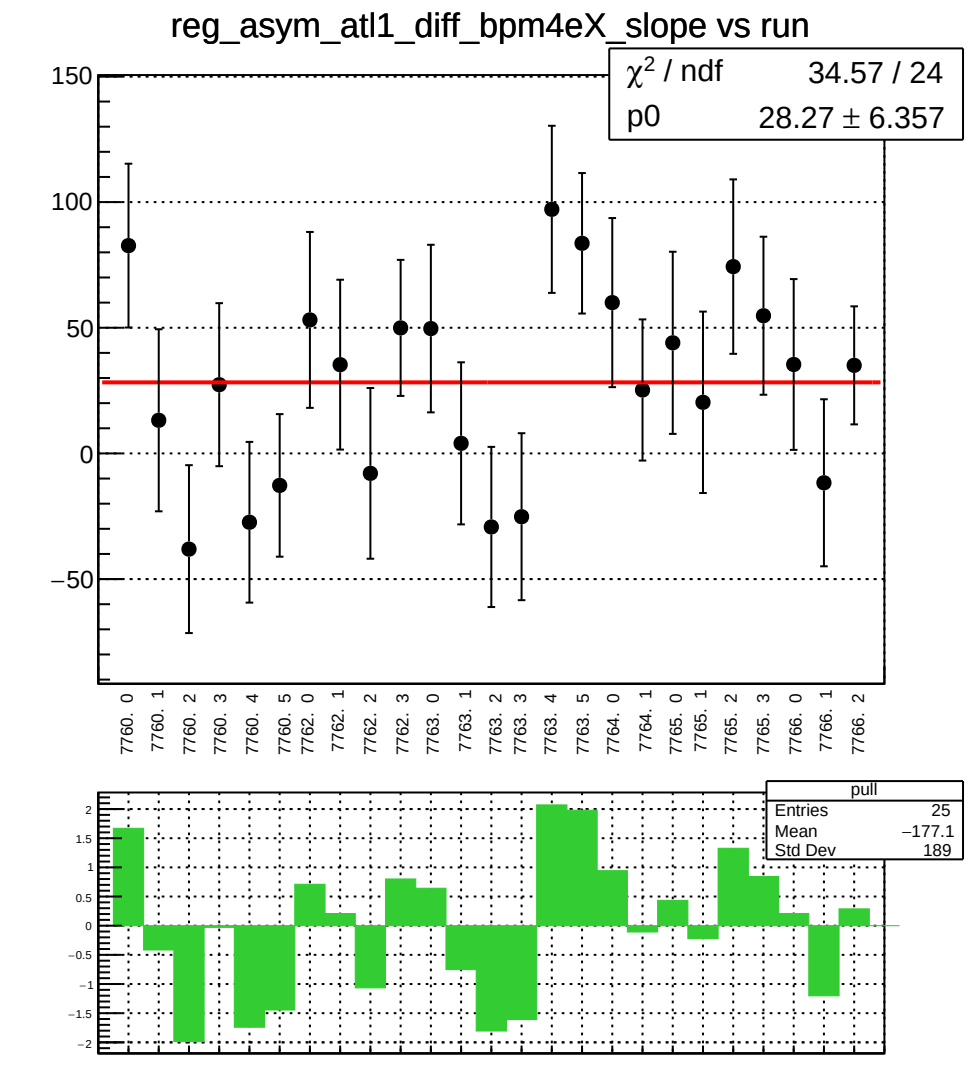

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.4102 / 24
p0 18.63 ± 5.405
50
40
30
20
10
0
−10
−20
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −2.388
Std Dev 25.45
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 25
Mean 0.002514
Std Dev 0.1281
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

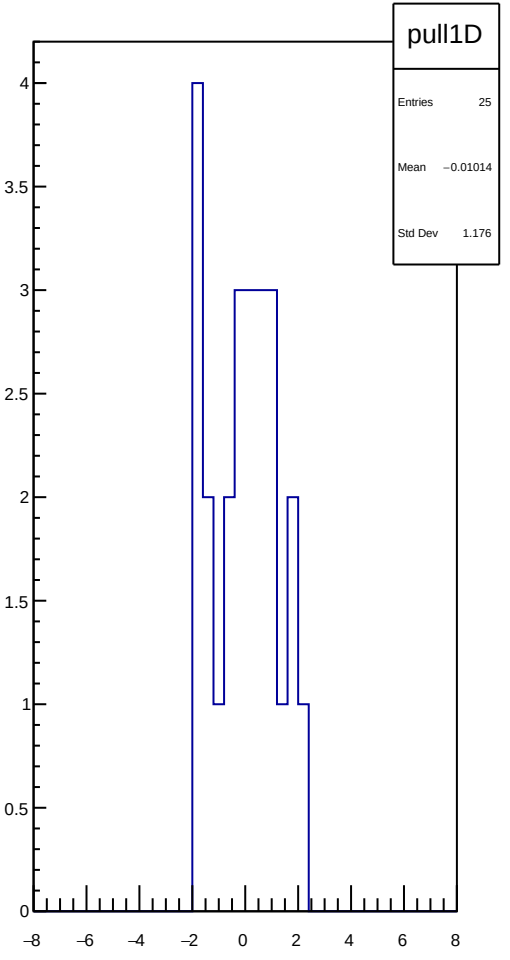

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 0.8474 / 24
p0 −0.1544 ± 0.1481
1
0.5
0
−0.5
−1
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 88.58
Std Dev 77.99
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 25
Mean 0.002803
Std Dev 0.1841
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

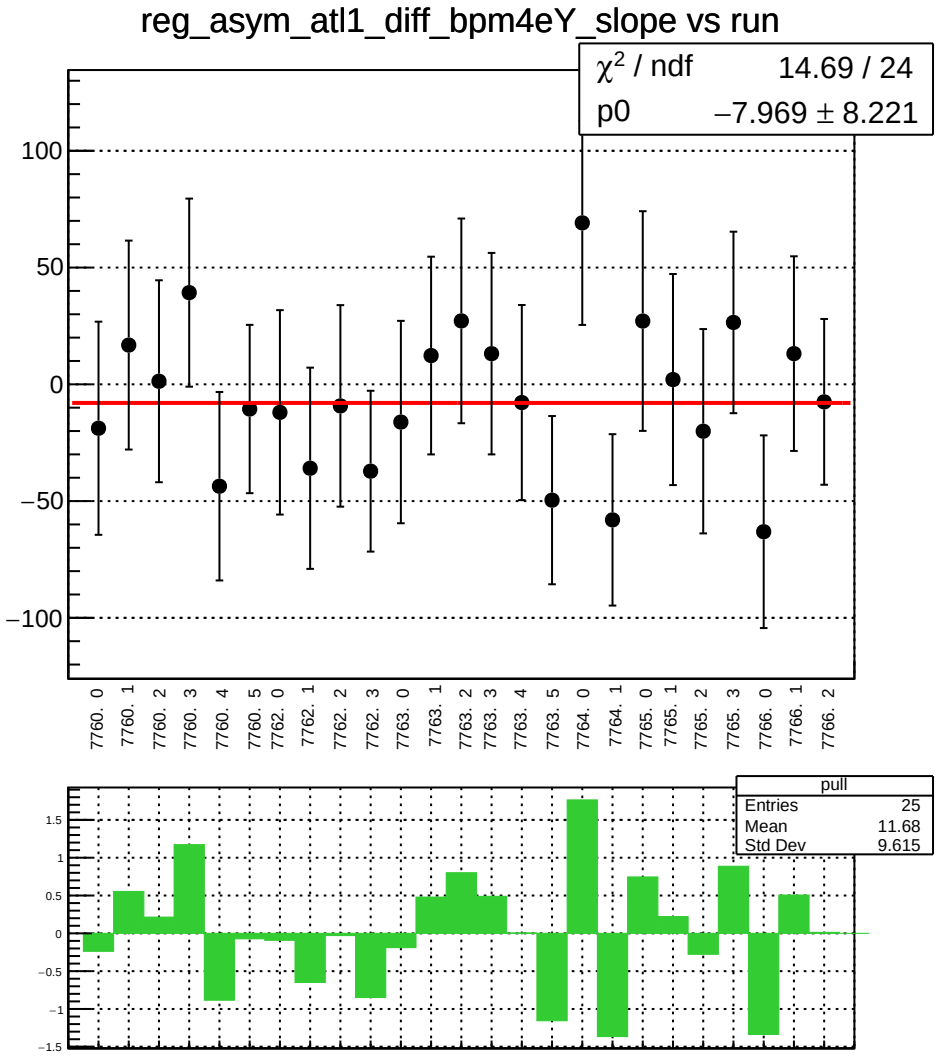

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 32.91 / 24
p0 6.168 ± 6.862
100
50
0
−50
−100
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −142
Std Dev 154
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

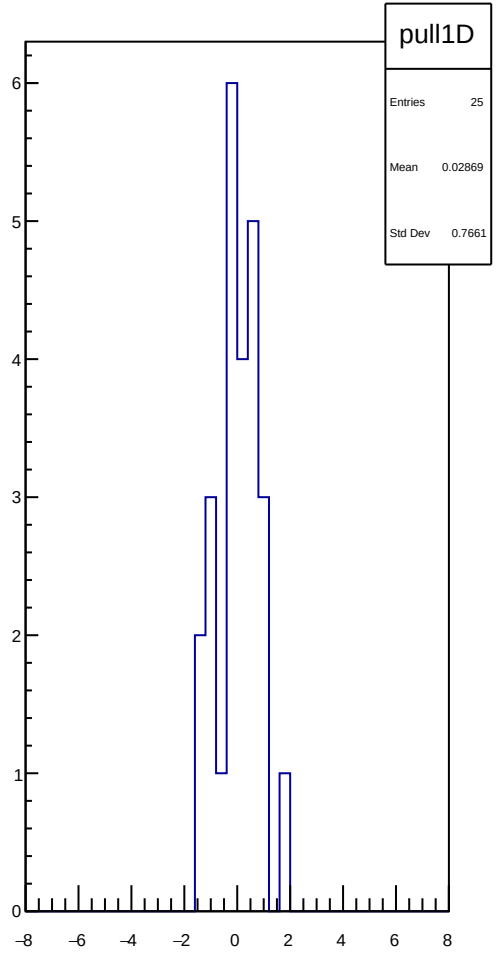

pull1D
Entries 25
Mean 0.01148
Std Dev 1.147
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

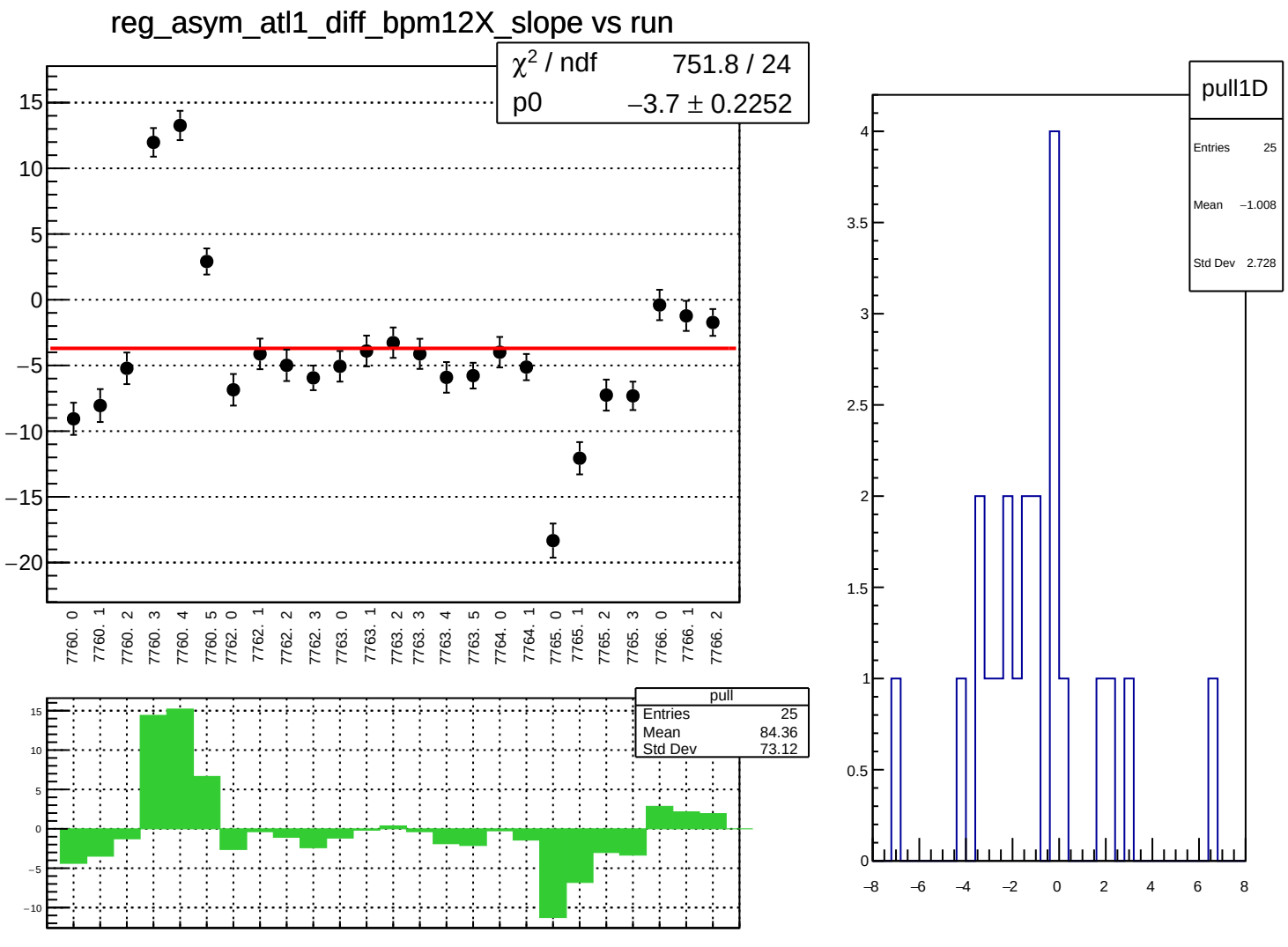

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 12.61 / 24
p0 −2.8 ± 7.296
80
60
40
20
0
−20
−40
−60
−80
−100
−120
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 13.69
Std Dev 12.02
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 25
Mean −0.02546
Std Dev 0.7099
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

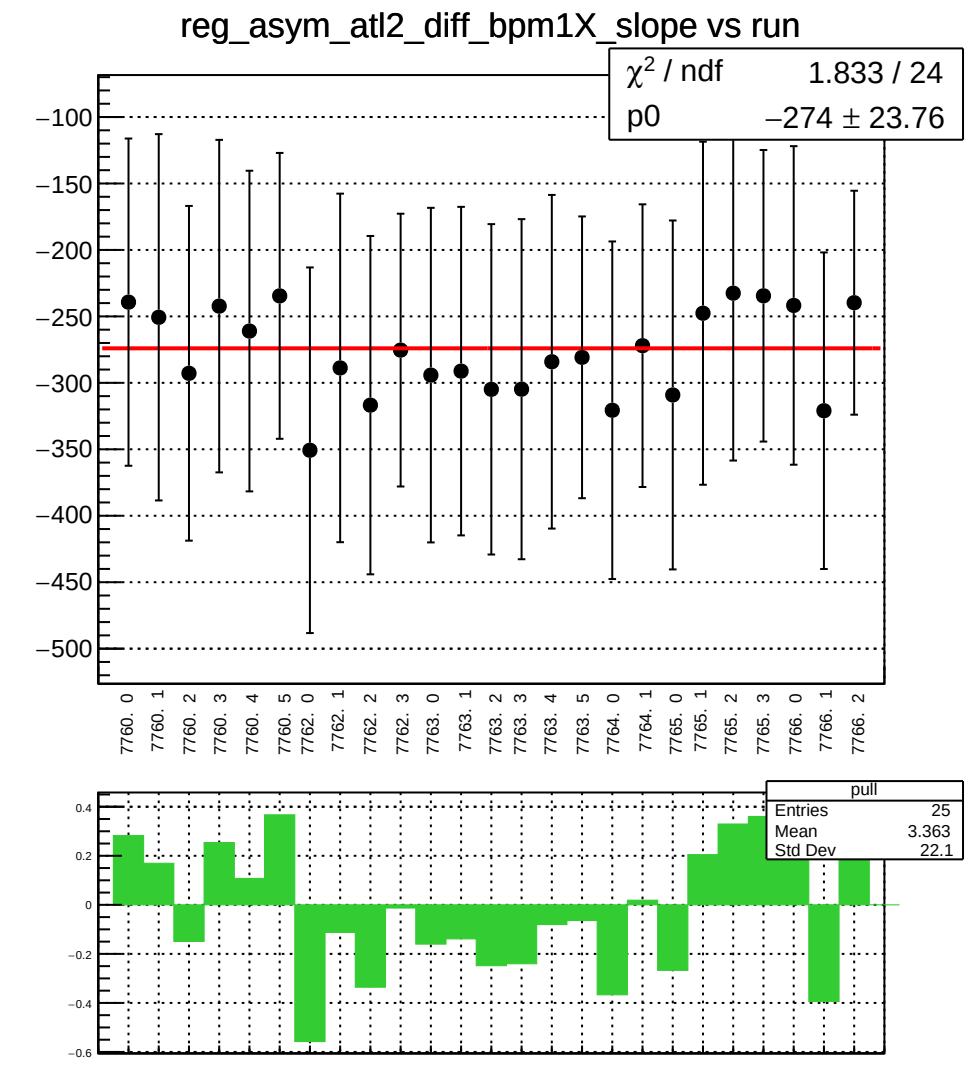

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 34.57 / 24
p0 28.27 ± 6.357
150
100
50
0
−50
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −177.1
Std Dev 189
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

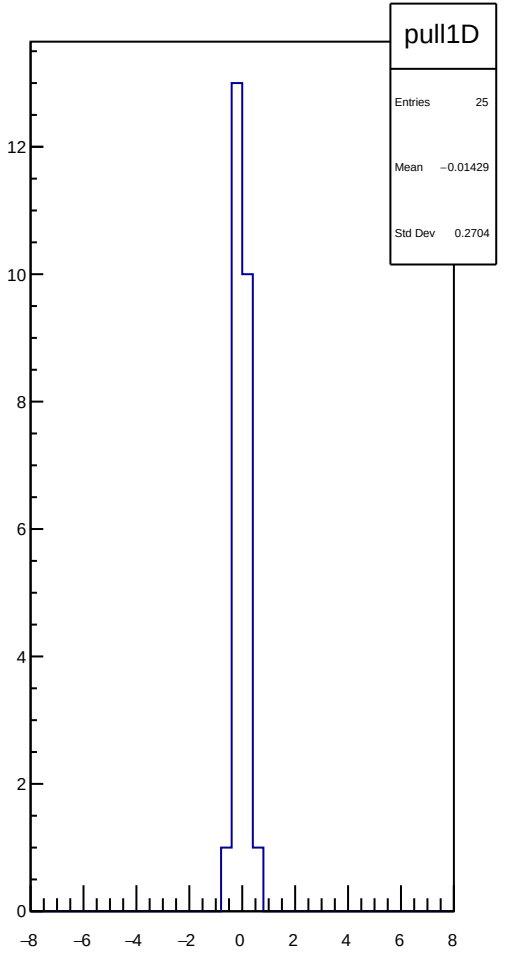

pull1D
Entries 25
Mean −0.01014
Std Dev 1.176
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

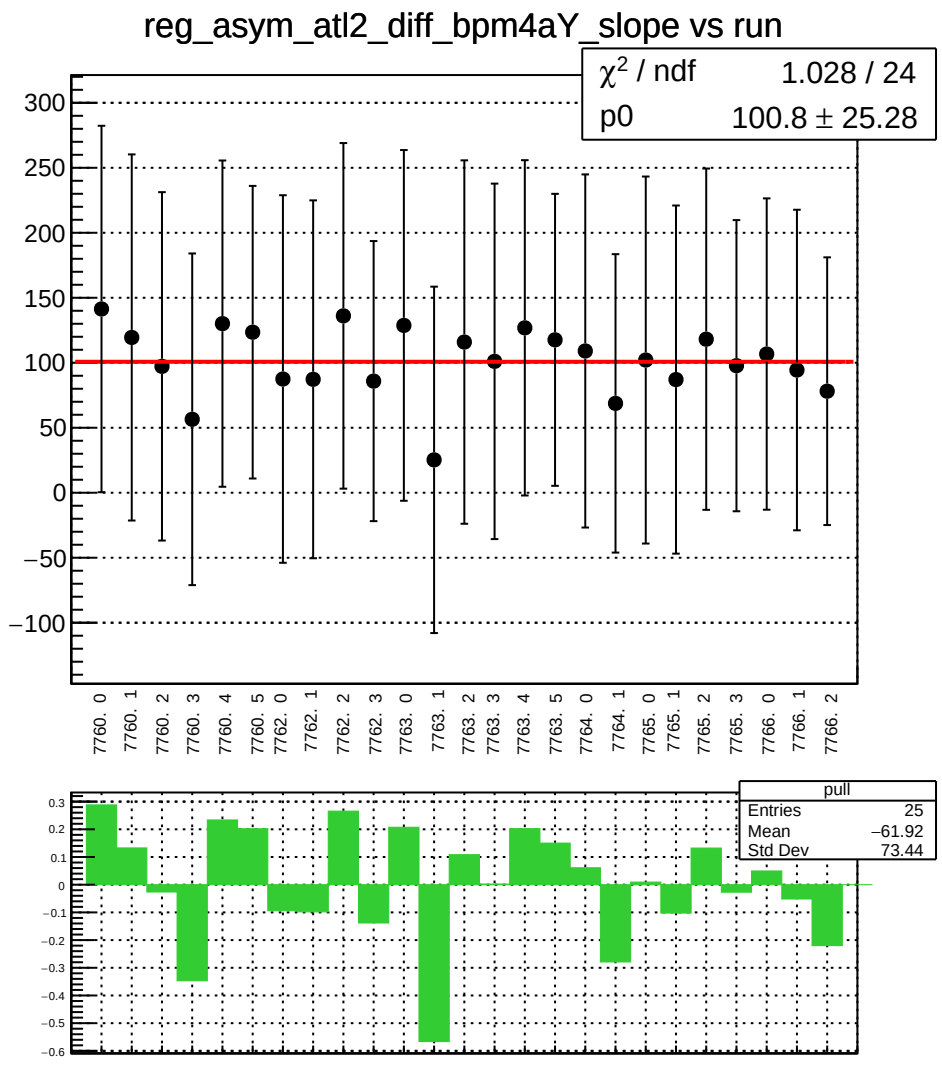

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 14.69 / 24
p0 −7.969 ± 8.221
100
50
0
−50
−100
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 11.68
Std Dev 9.615
1.5
1
0.5
0
−0.5
−1
−1.5

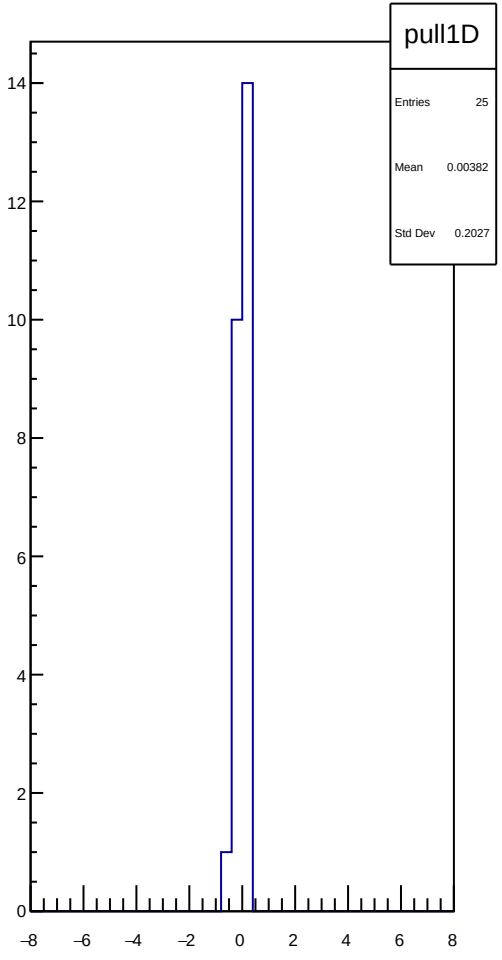

pull1D
Entries 25
Mean 0.02869
Std Dev 0.7661
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

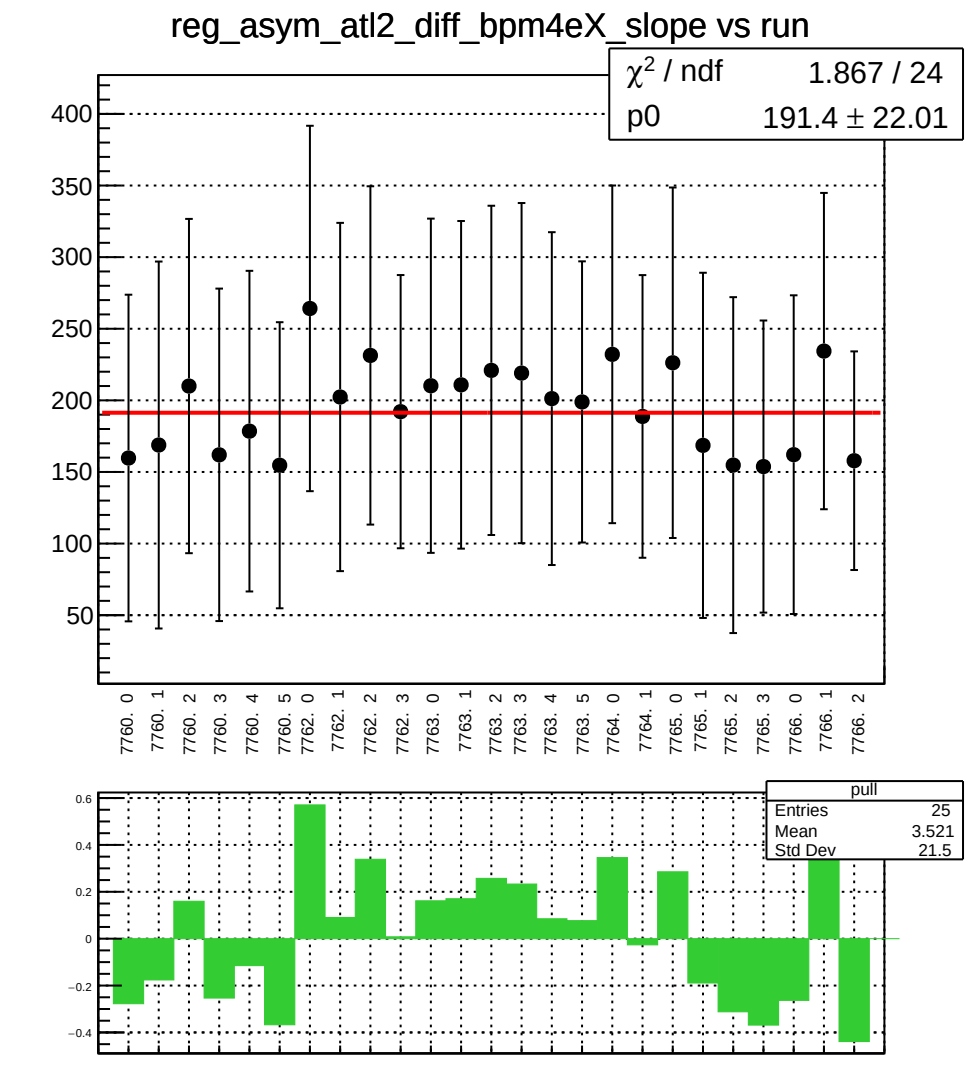

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 751.8 / 24
p0 −3.7 ± 0.2252
15
10
5
0
−5
−10
−15
−20
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 84.36
Std Dev 73.12
pull1D
Entries 25
Mean −1.008
Std Dev 2.728
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

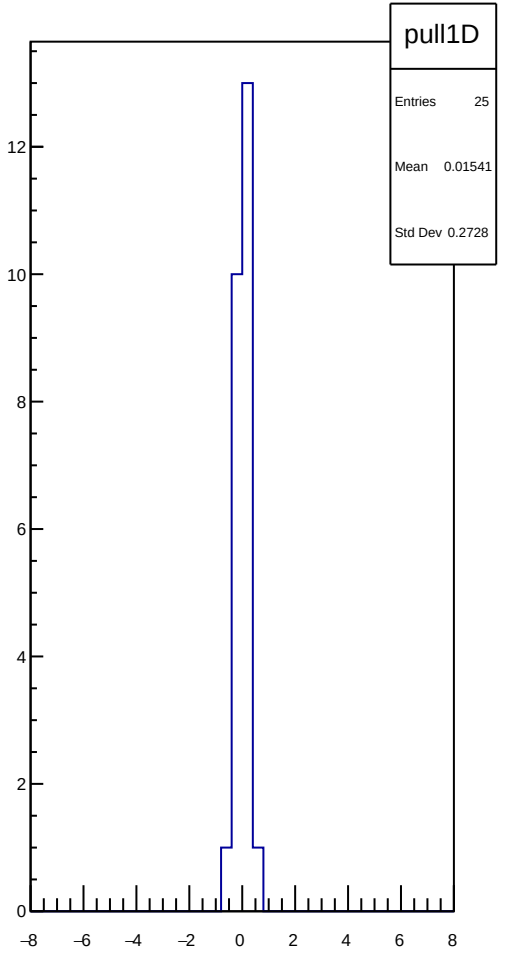

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 1.833 / 24
p0 −274 ± 23.76
−100
−150
−200
−250
−300
−350
−400
−450
−500
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 3.363
Std Dev 22.1
0.4
0.2
0
−0.2
−0.4
−0.6

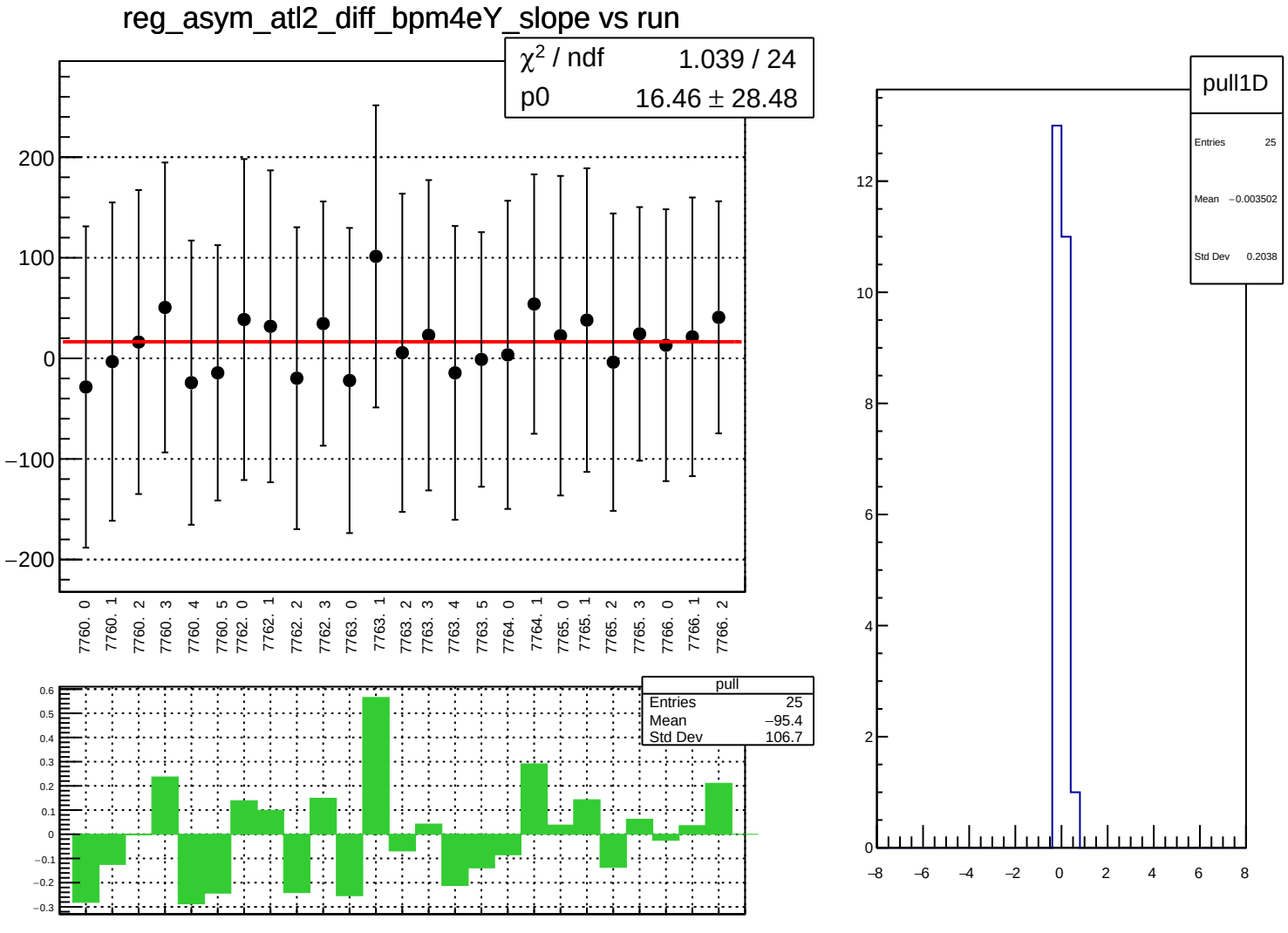

pull1D
Entries 25
Mean −0.01429
Std Dev 0.2704
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

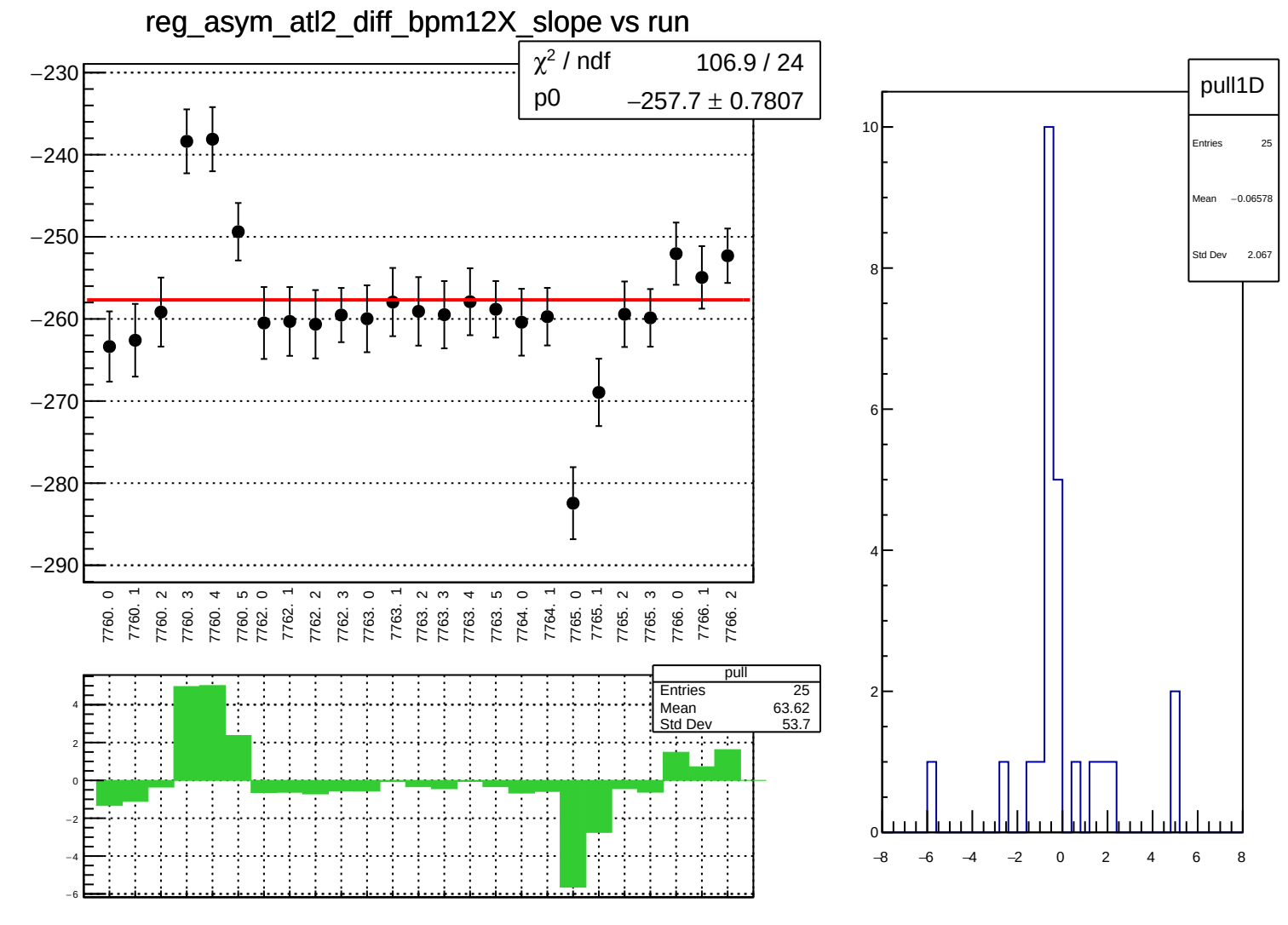

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 1.028 / 24
p0 100.8 ± 25.28
300
250
200
150
100
50
0
−50
−100
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −61.92
Std Dev 73.44
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6

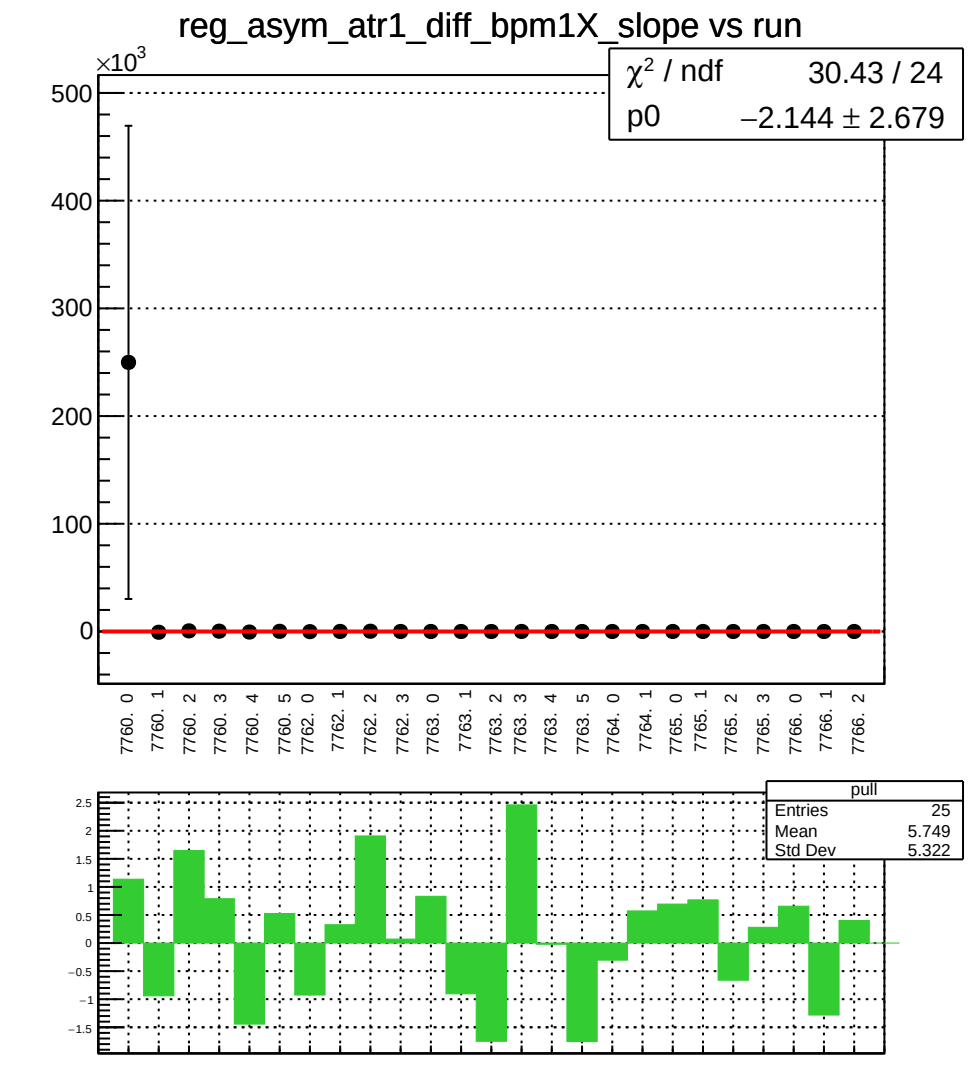

pull1D
Entries 25
Mean 0.00382
Std Dev 0.2027
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

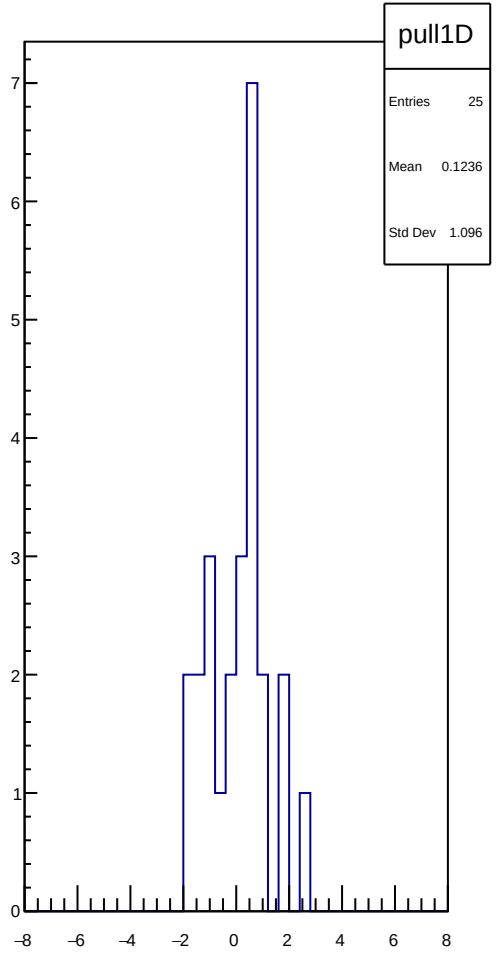

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 1.867 / 24
p0 191.4 ± 22.01
400
350
300
250
200
150
100
50
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 3.521
Std Dev 21.5
0.6
0.4
0.2
0
−0.2
−0.4

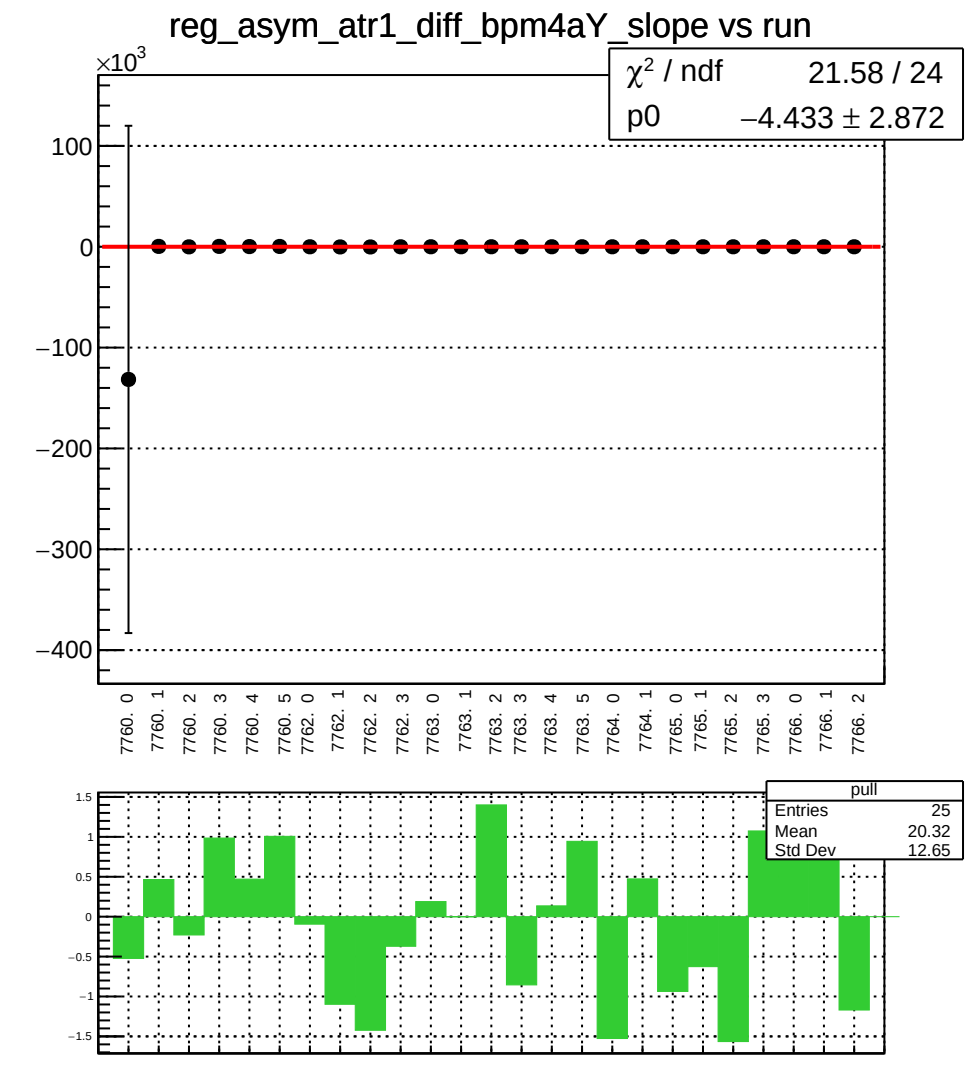

pull1D
Entries 25
Mean 0.01541
Std Dev 0.2728
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

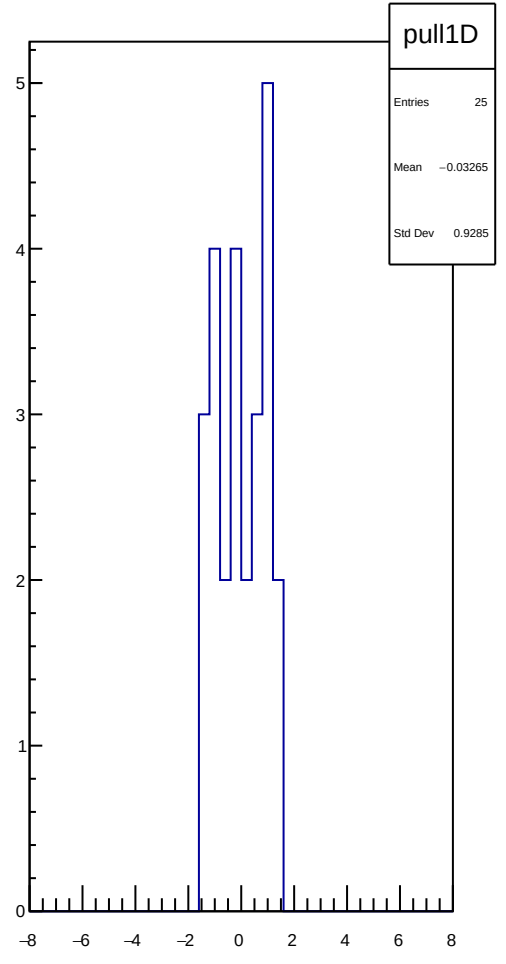

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 1.039 / 24
p0 16.46 ± 28.48
200
100
0
−100
−200
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −95.4
Std Dev 106.7
0.6
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 25
Mean −0.003502
Std Dev 0.2038
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

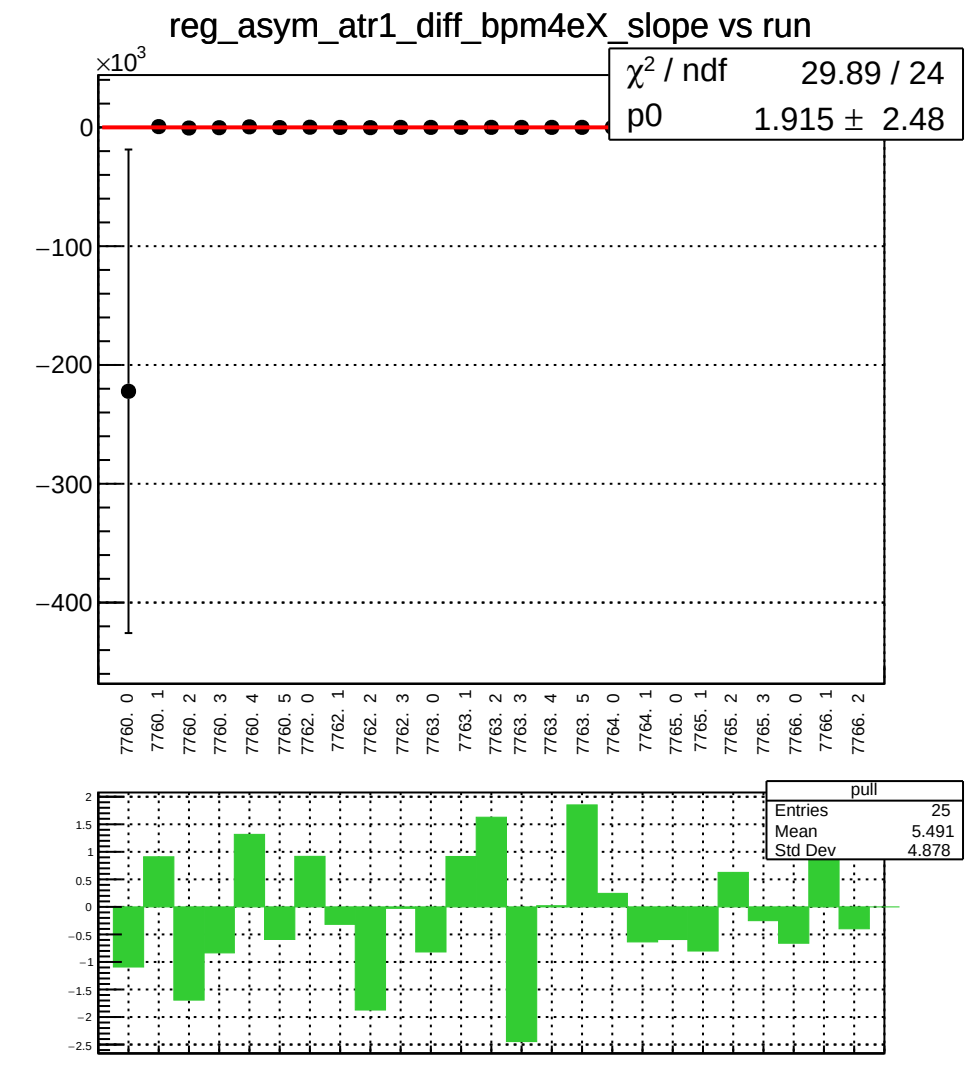

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 106.9 / 24
p0 −257.7 ± 0.7807
−230
−240
−250
−260
−270
−280
−290
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 63.62
Std Dev 53.7
4
2
0
−2
−4
−6
pull1D
Entries 25
Mean −0.06578
Std Dev 2.067
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

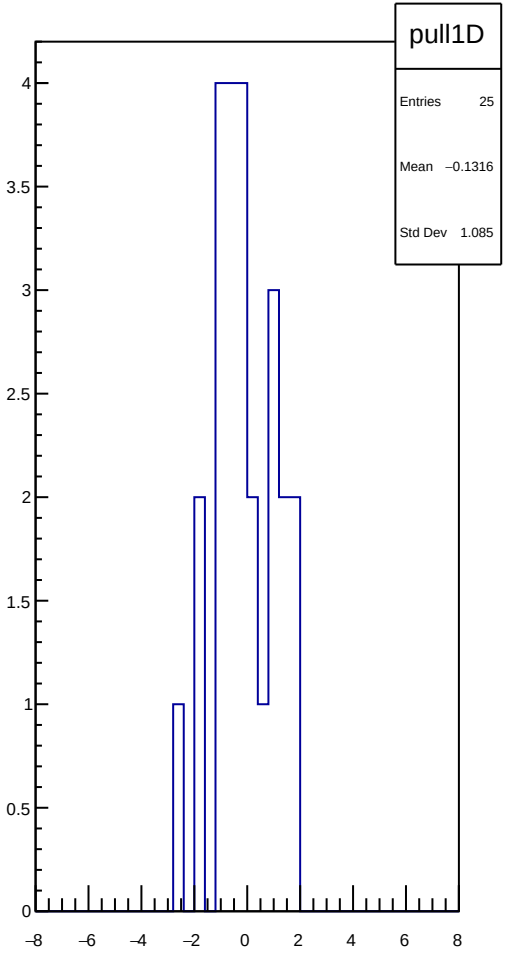

reg_asym_atr1_diff_bpm1X_slope vs run
×10^3
χ² / ndf 30.43 / 24
p0 −2.144 ± 2.679
500
400
300
200
100
0
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 5.749
Std Dev 5.322
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

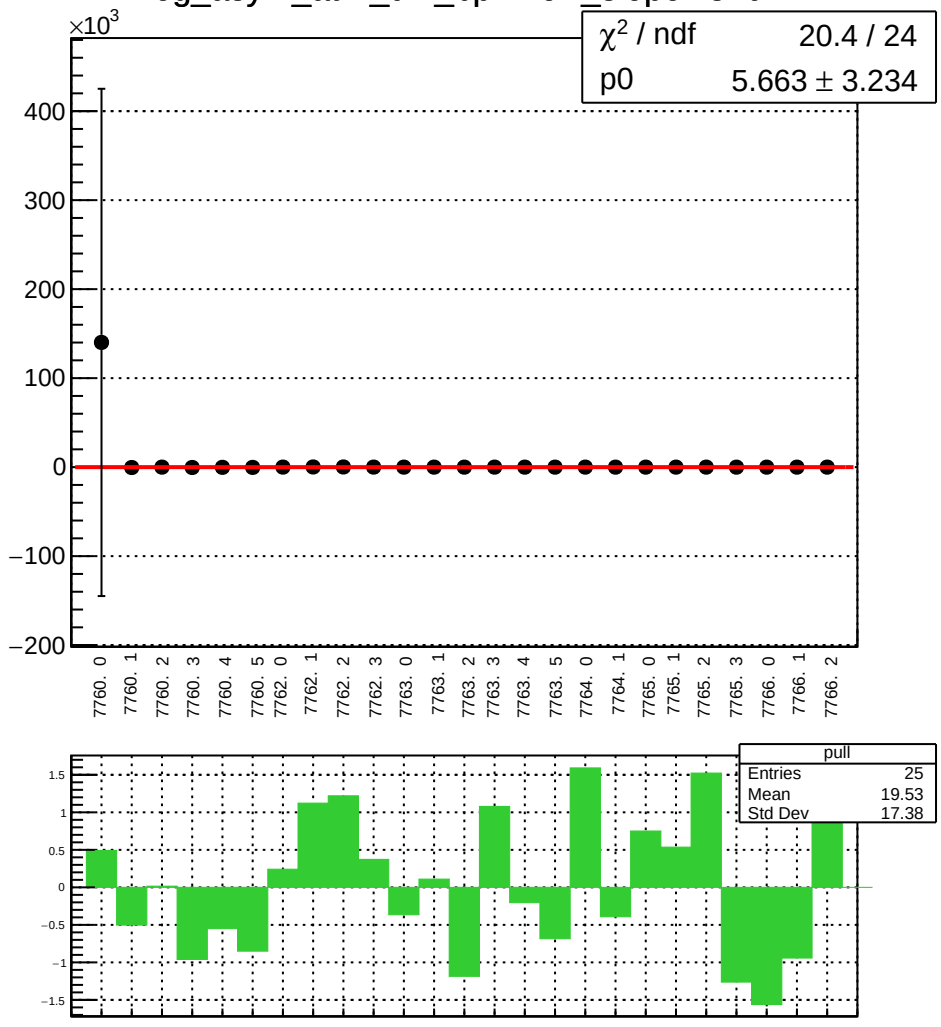

pull1D
Entries 25
Mean 0.1236
Std Dev 1.096
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

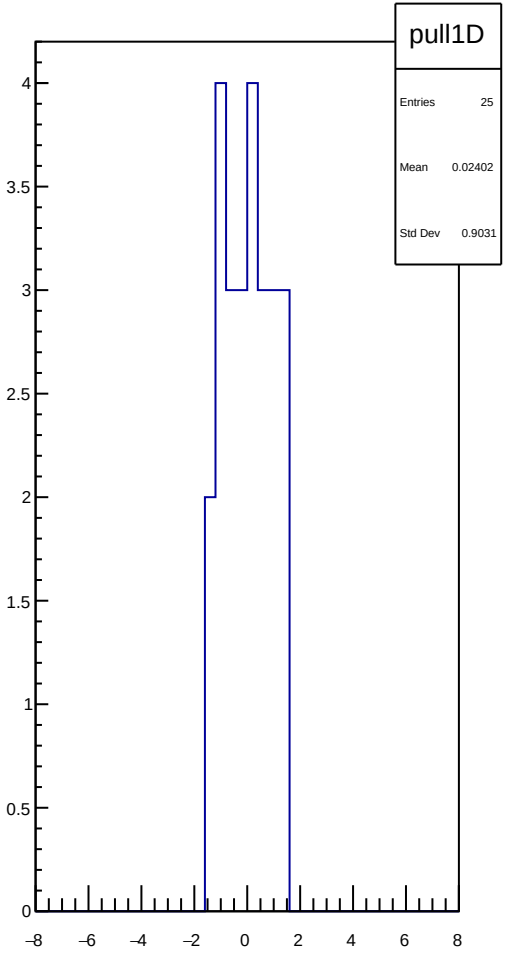

reg_asym_atr1_diff_bpm4aY_slope vs run
×10^3
χ² / ndf 21.58 / 24
p0 −4.433 ± 2.872
100
0
−100
−200
−300
−400
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 20.32
Std Dev 12.65
1.5
1
0.5
0
−0.5
−1
−1.5

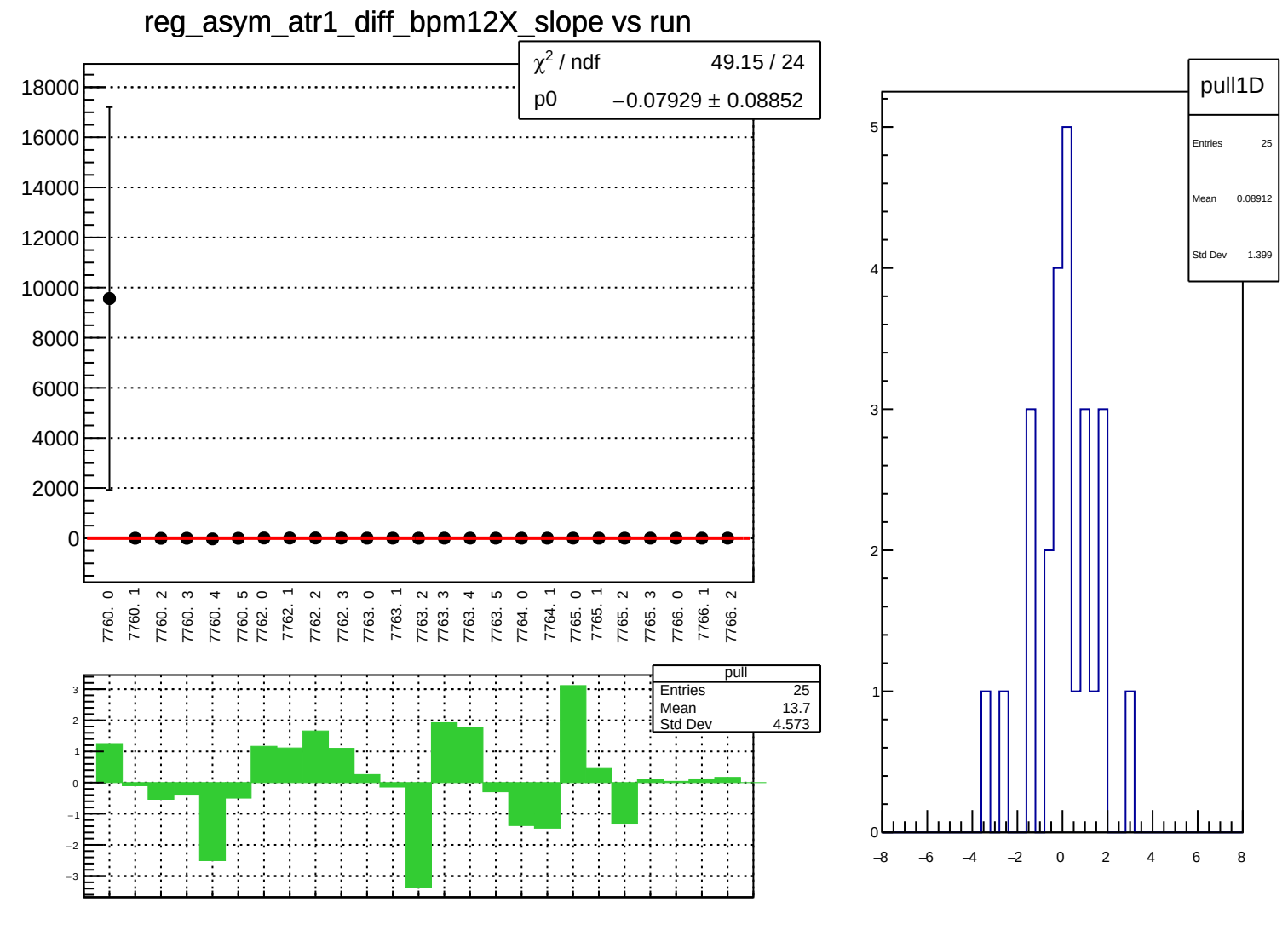

pull1D
Entries 25
Mean −0.03265
Std Dev 0.9285
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

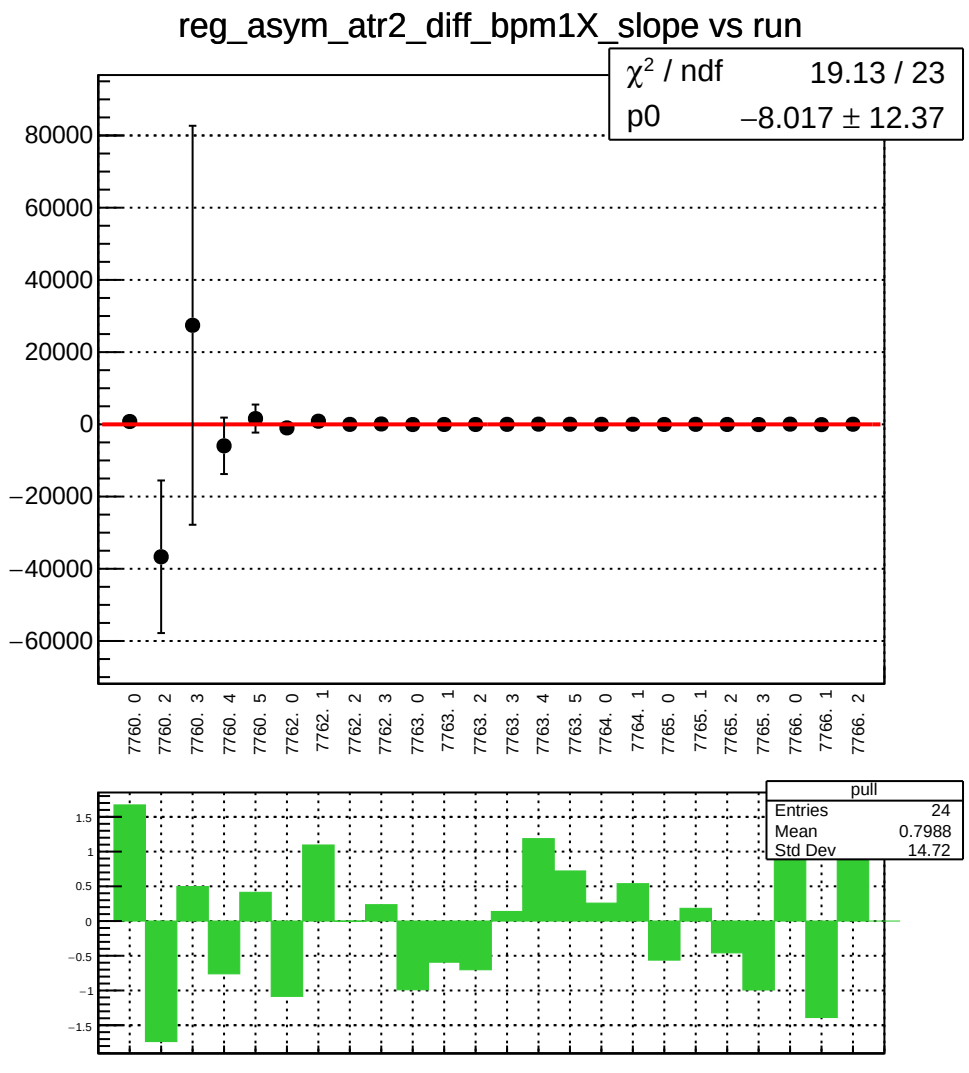

reg_asym_atr1_diff_bpm4eX_slope vs run
×10^3
χ^2 / ndf 29.89 / 24
p0 1.915 ± 2.48
0
−100
−200
−300
−400
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 5.491
Std Dev 4.878
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

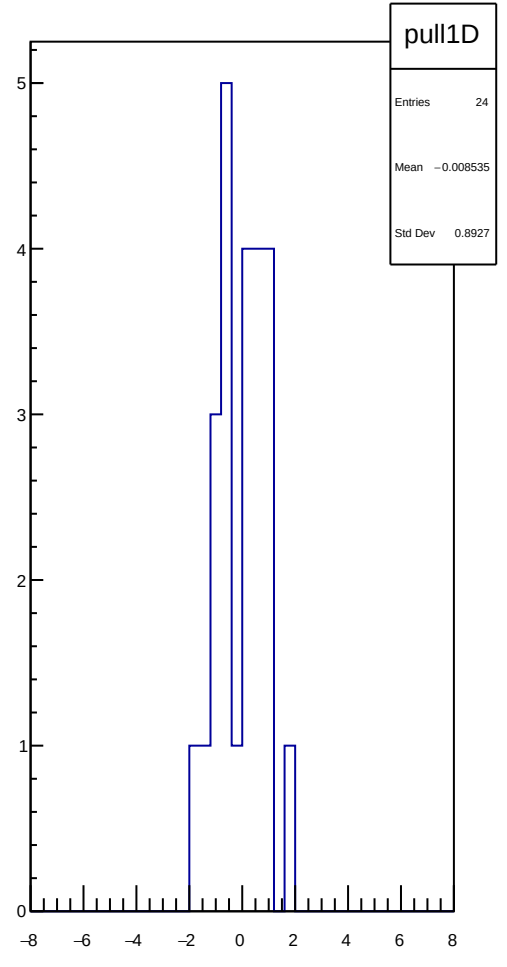

pull1D
Entries 25
Mean −0.1316
Std Dev 1.085
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

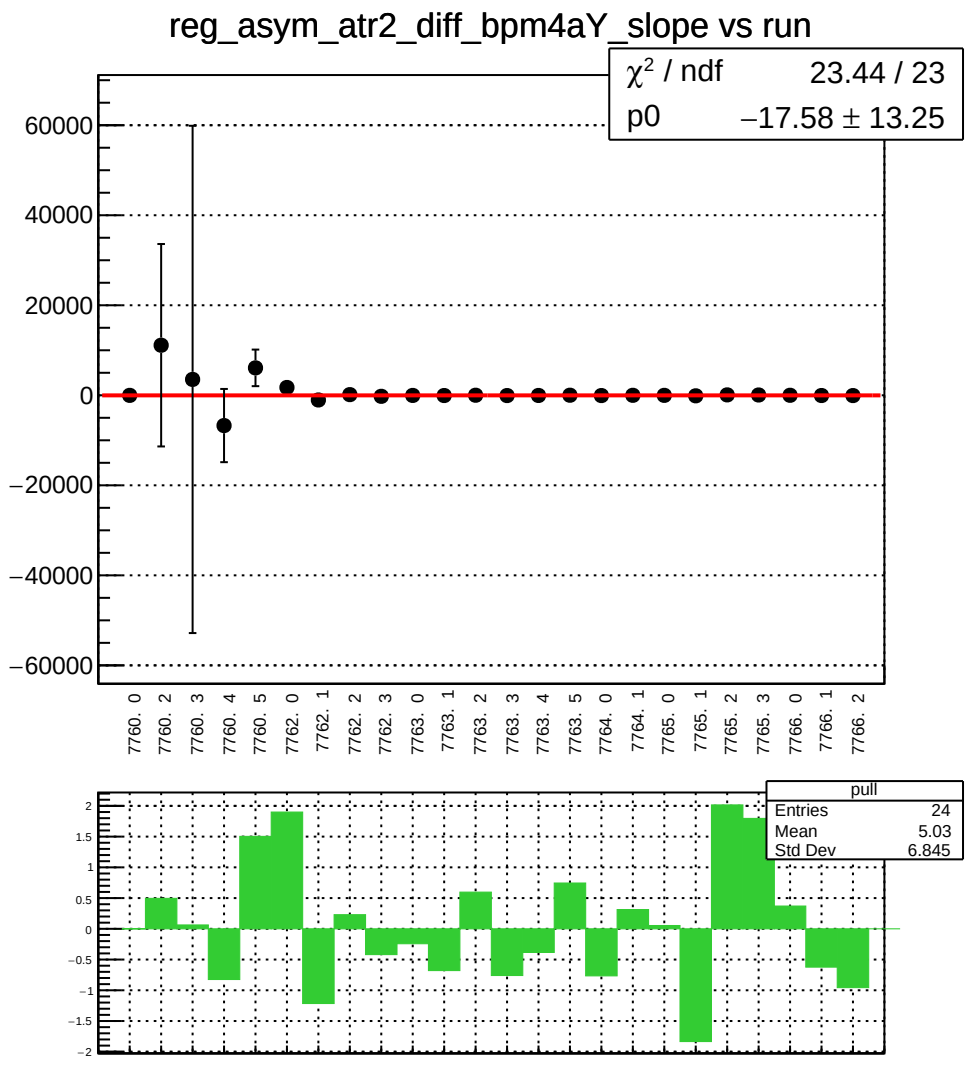

reg_asym_atr1_diff_bpm4eY_slope vs run
×10^3
χ^2 / ndf 20.4 / 24
p0 5.663 ± 3.234
400
300
200
100
0
−100
−200
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 19.53
Std Dev 17.38
1.5
1
0.5
0
−0.5
−1
−1.5

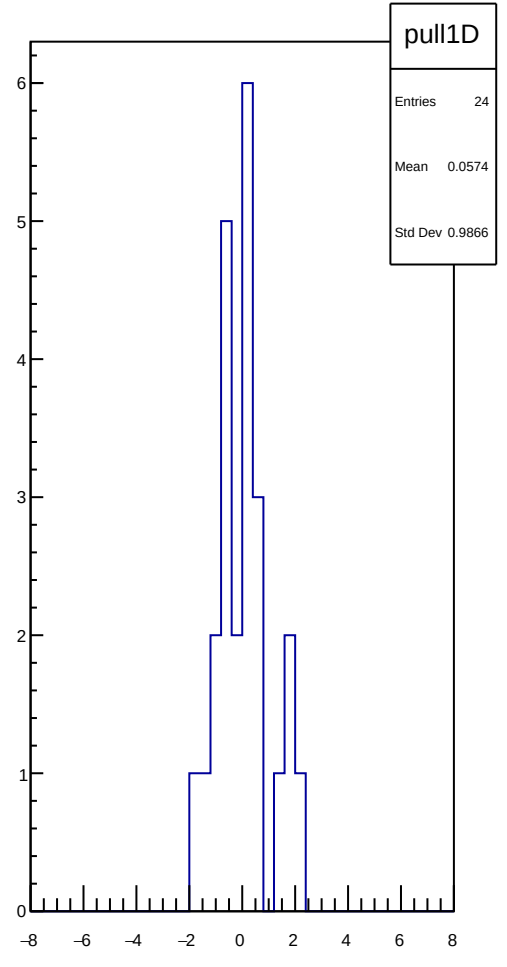

pull1D
Entries 25
Mean 0.02402
Std Dev 0.9031
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

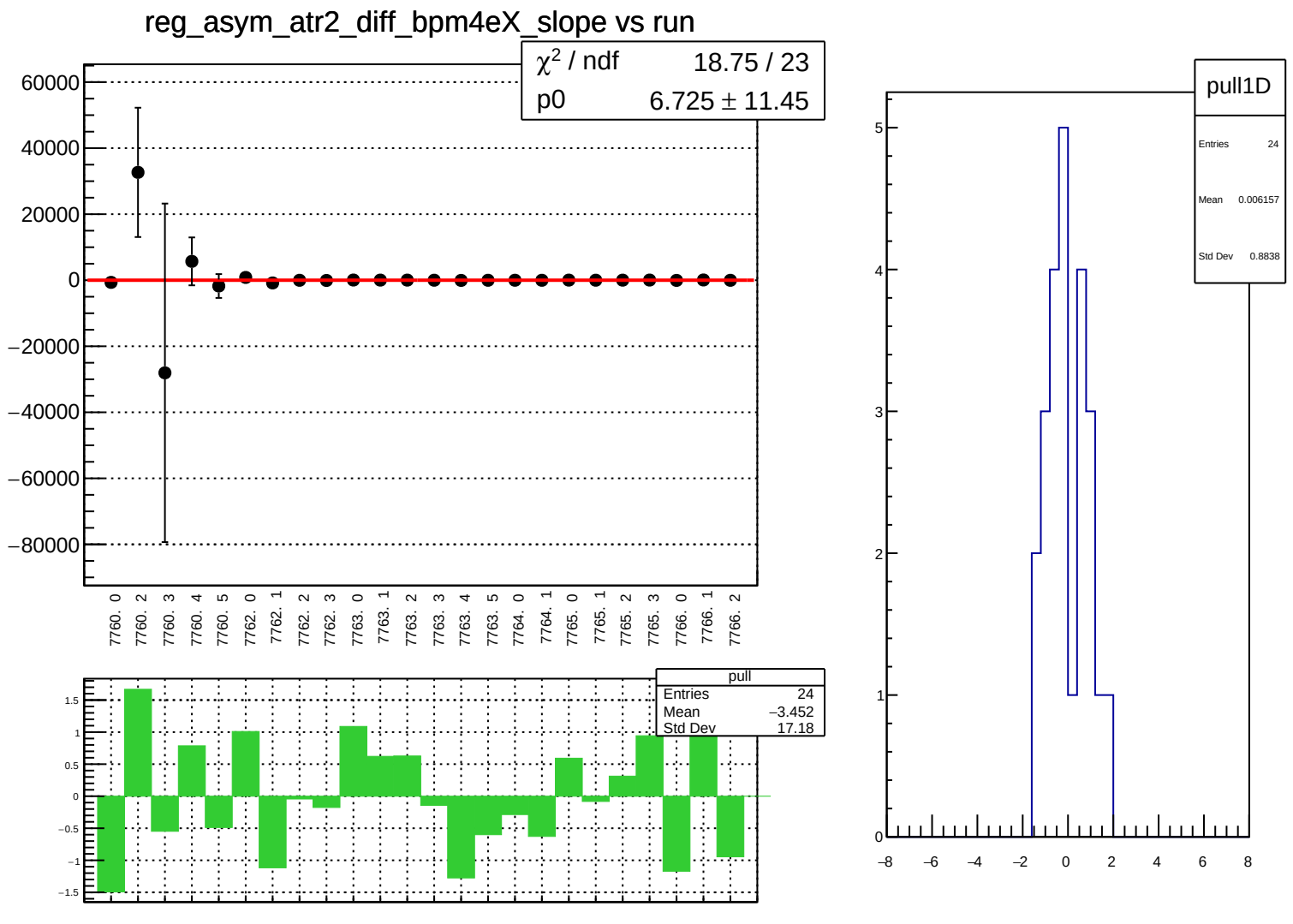

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 49.15 / 24
p0 −0.07929 ± 0.08852
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 13.7
Std Dev 4.573
pull1D
Entries 25
Mean 0.08912
Std Dev 1.399

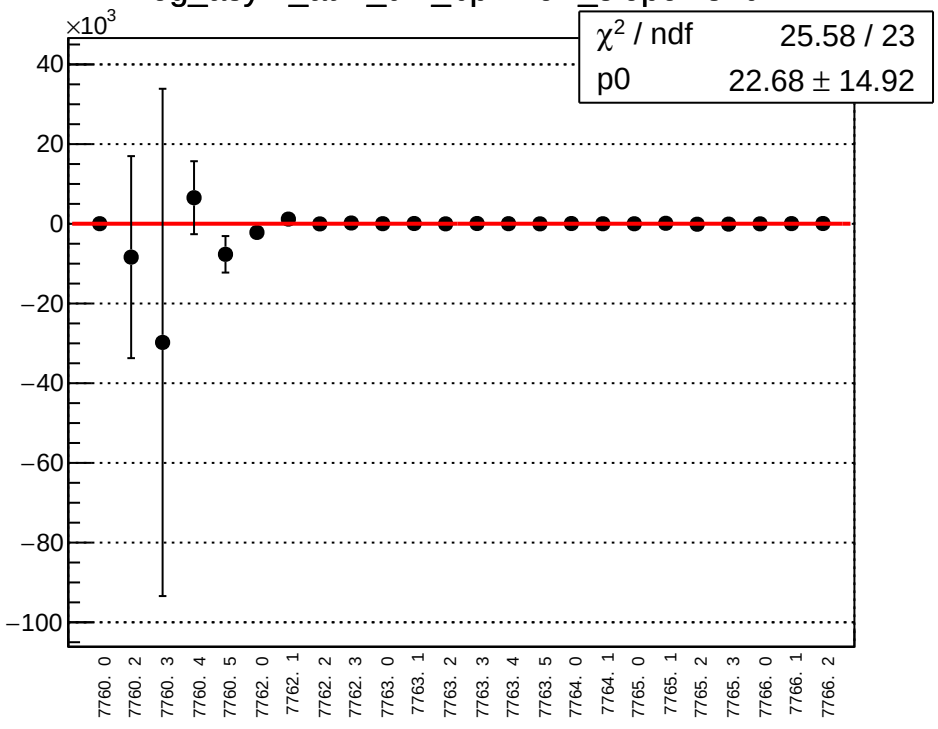

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 19.13 / 23
p0 −8.017 ± 12.37
80000
60000
40000
20000
0
−20000
−40000
−60000
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 24
Mean 0.7988
Std Dev 14.72
1.5
1
0.5
0
−0.5
−1
−1.5

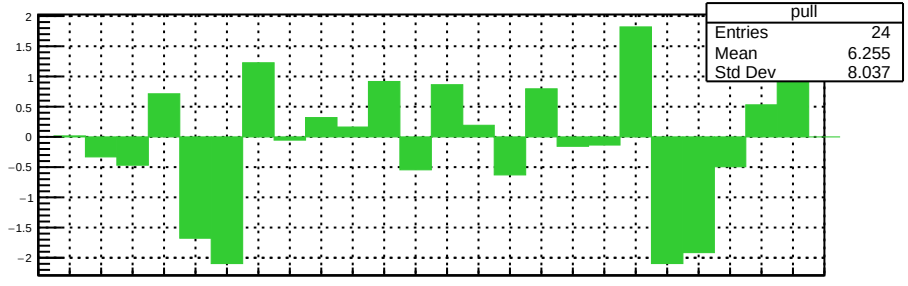

pull1D
Entries 24
Mean −0.008535
Std Dev 0.8927
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

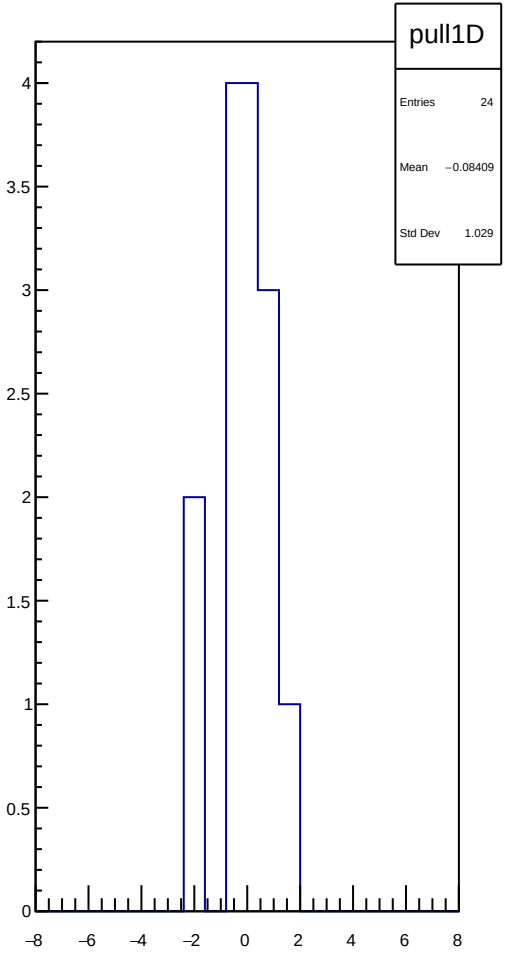

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 23.44 / 23
p0 −17.58 ± 13.25
60000
40000
20000
0
−20000
−40000
−60000
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 24
Mean 5.03
Std Dev 6.845
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

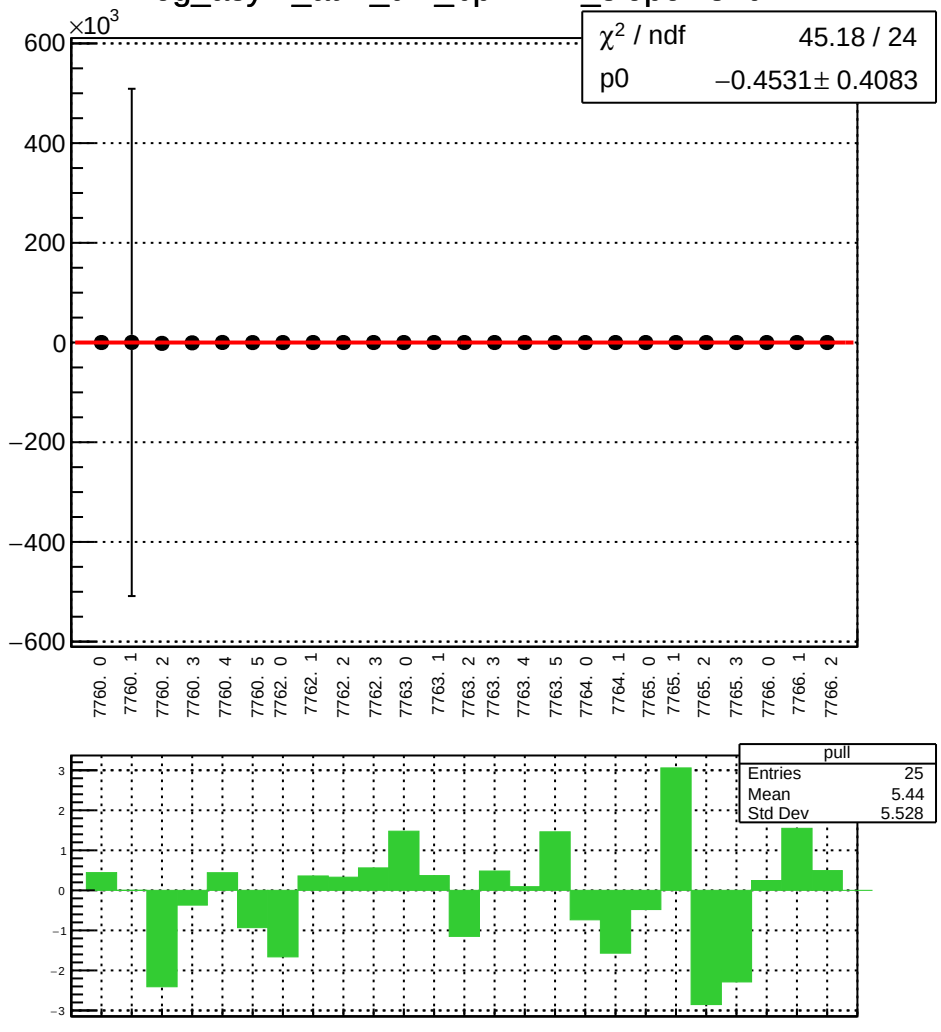

pull1D
Entries 24
Mean 0.0574
Std Dev 0.9866
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

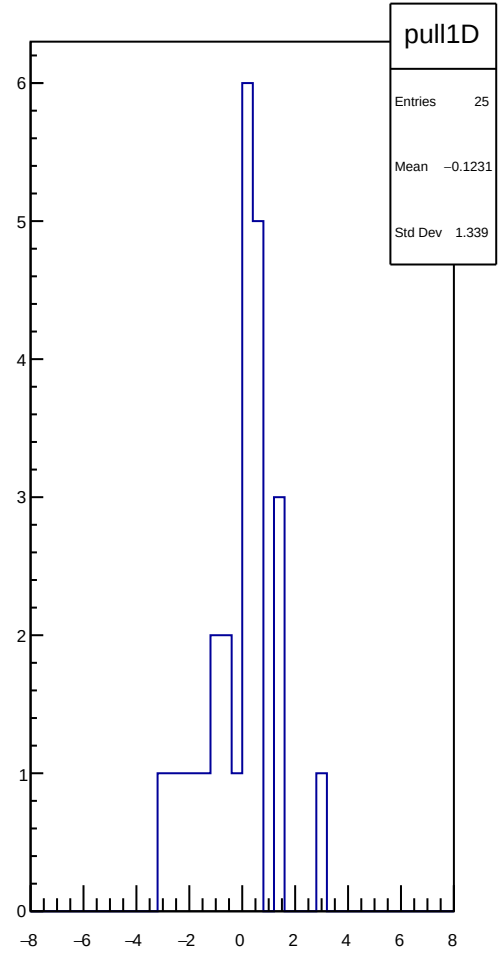

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 18.75 / 23
p0 6.725 ± 11.45
60000
40000
20000
0
−20000
−40000
−60000
−80000
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 24
Mean −3.452
Std Dev 17.18
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.006157
Std Dev 0.8838
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

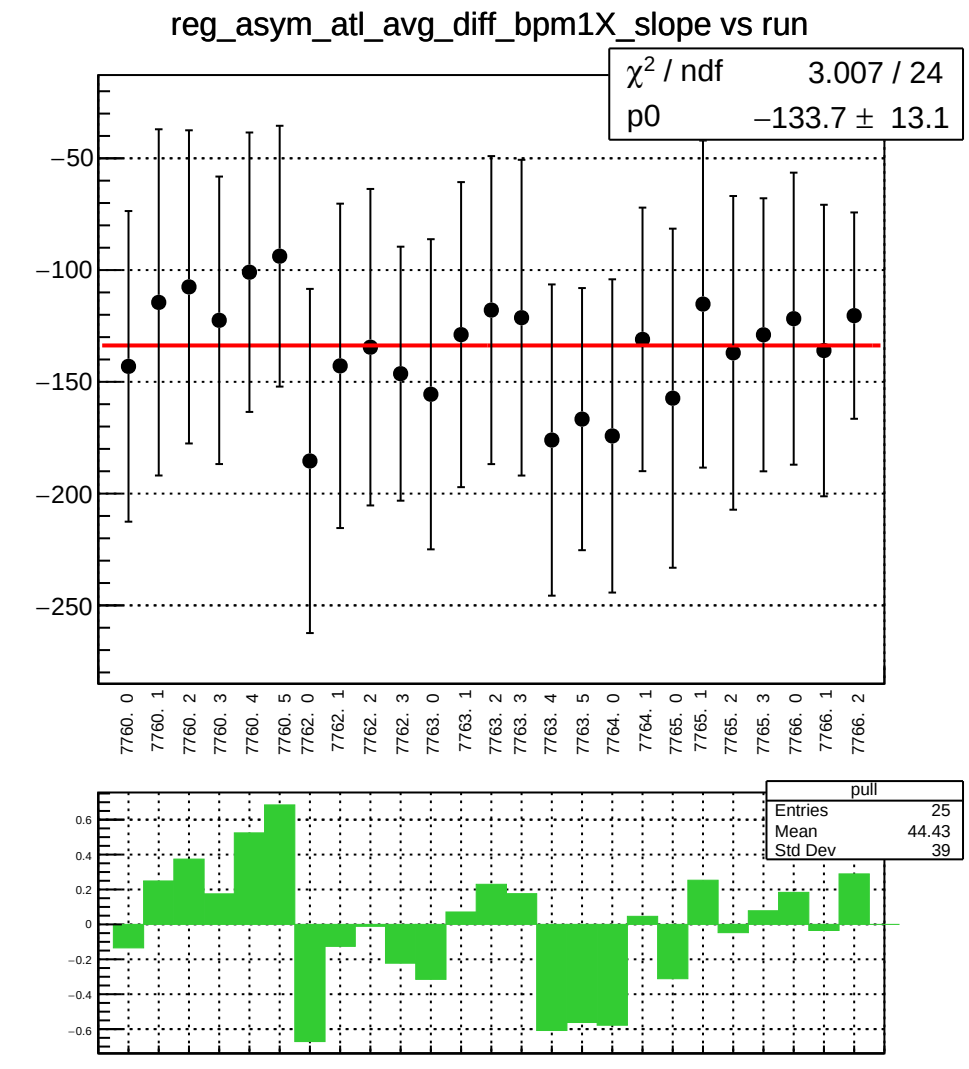

reg_asym_atr2_diff_bpm4eY_slope vs run
×10^3
χ^2 / ndf 25.58 / 23
p0 22.68 ± 14.92
40
20
0
−20
−40
−60
−80
−100
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

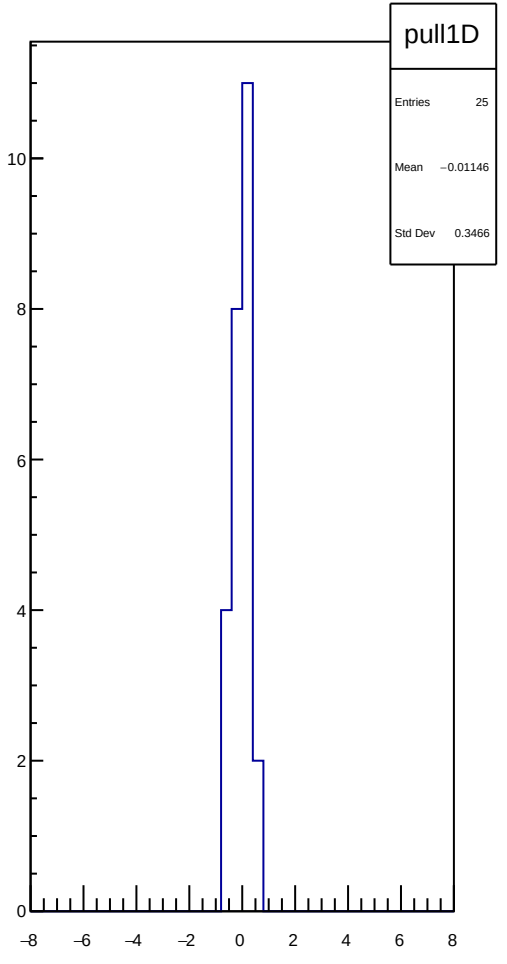

pull
Entries 24
Mean 6.255
Std Dev 8.037
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

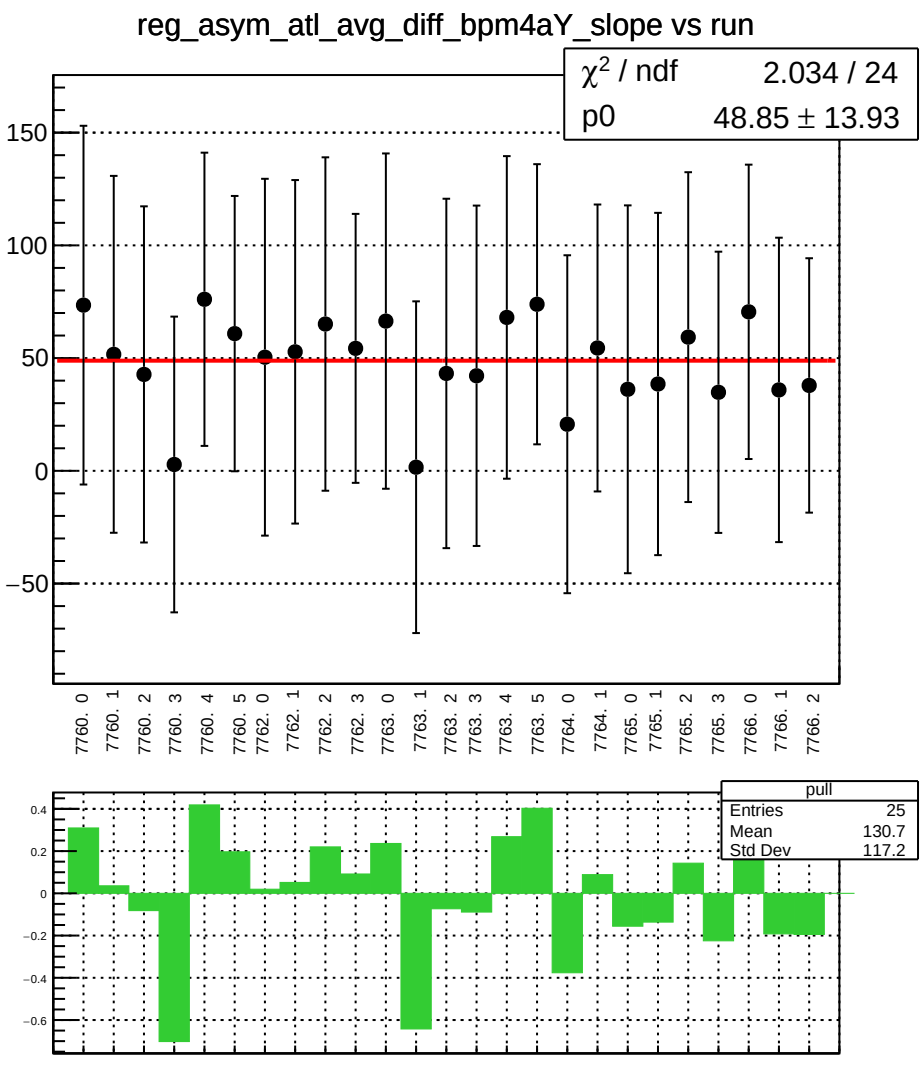

pull1D
Entries 24
Mean −0.08409
Std Dev 1.029
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

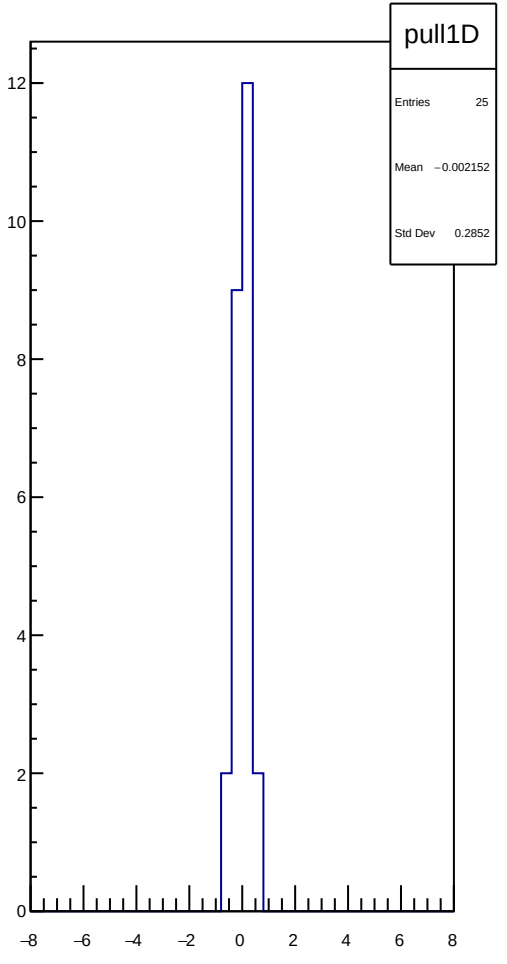

reg_asym_atr2_diff_bpm12X_slope vs run
×10^3
χ² / ndf 45.18 / 24
p0 −0.4531± 0.4083
600
400
200
0
−200
−400
−600
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 5.44
Std Dev 5.528
3
2
1
0
−1
−2
−3

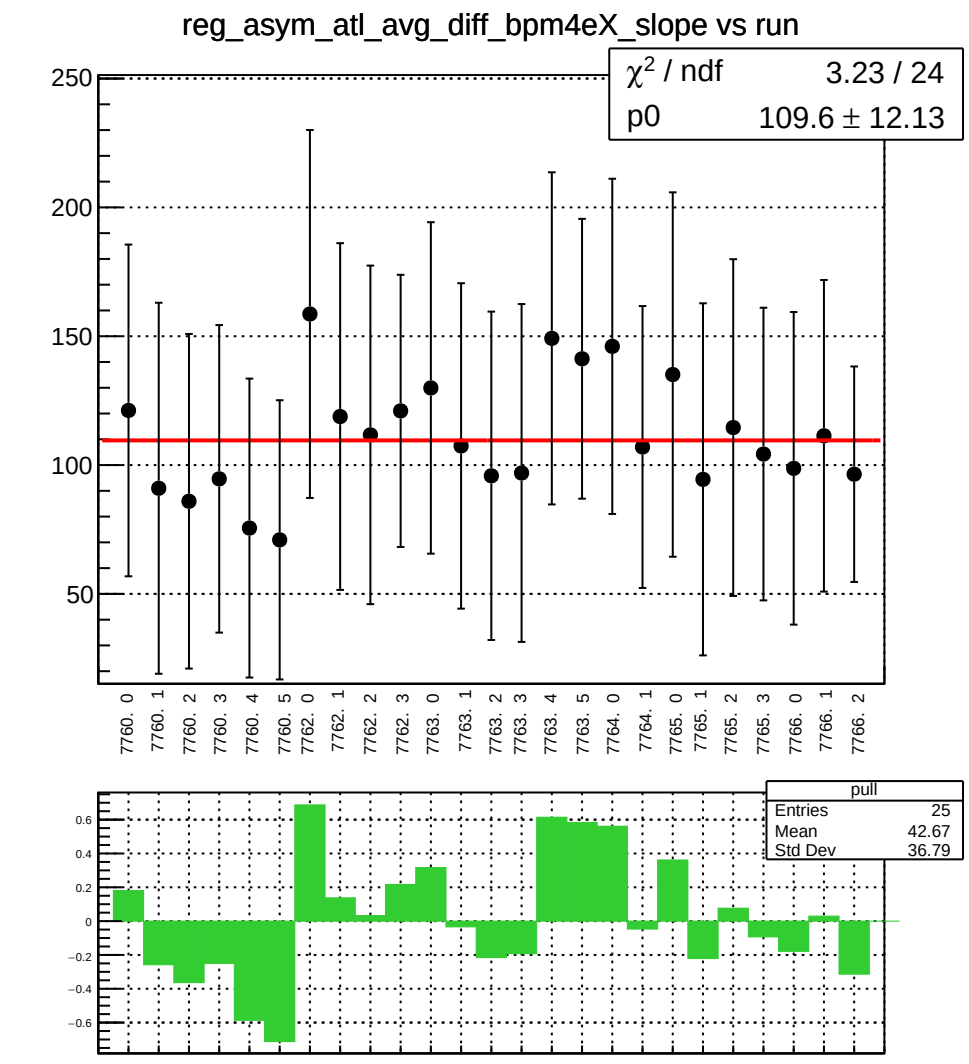

pull1D
Entries 25
Mean −0.1231
Std Dev 1.339
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

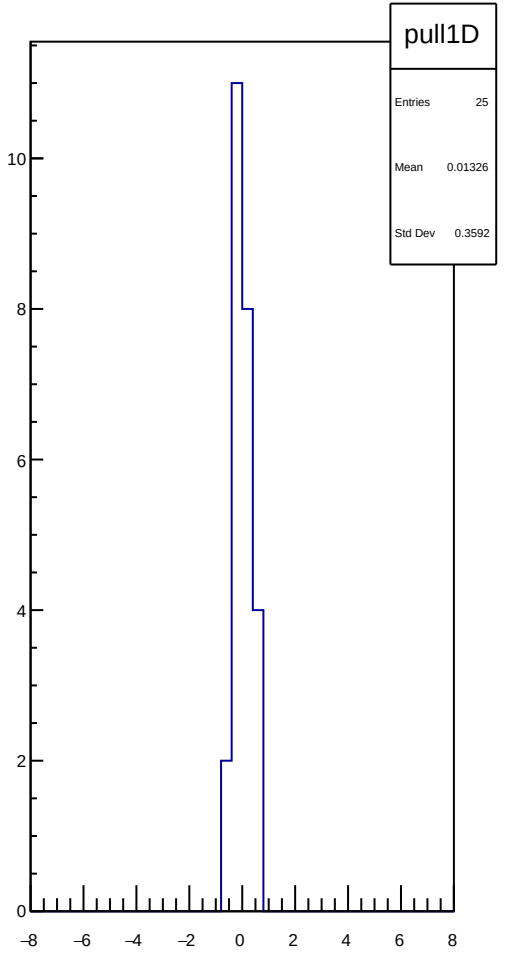

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 3.007 / 24
p0 −133.7 ± 13.1
−50
−100
−150
−200
−250
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 44.43
Std Dev 39
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

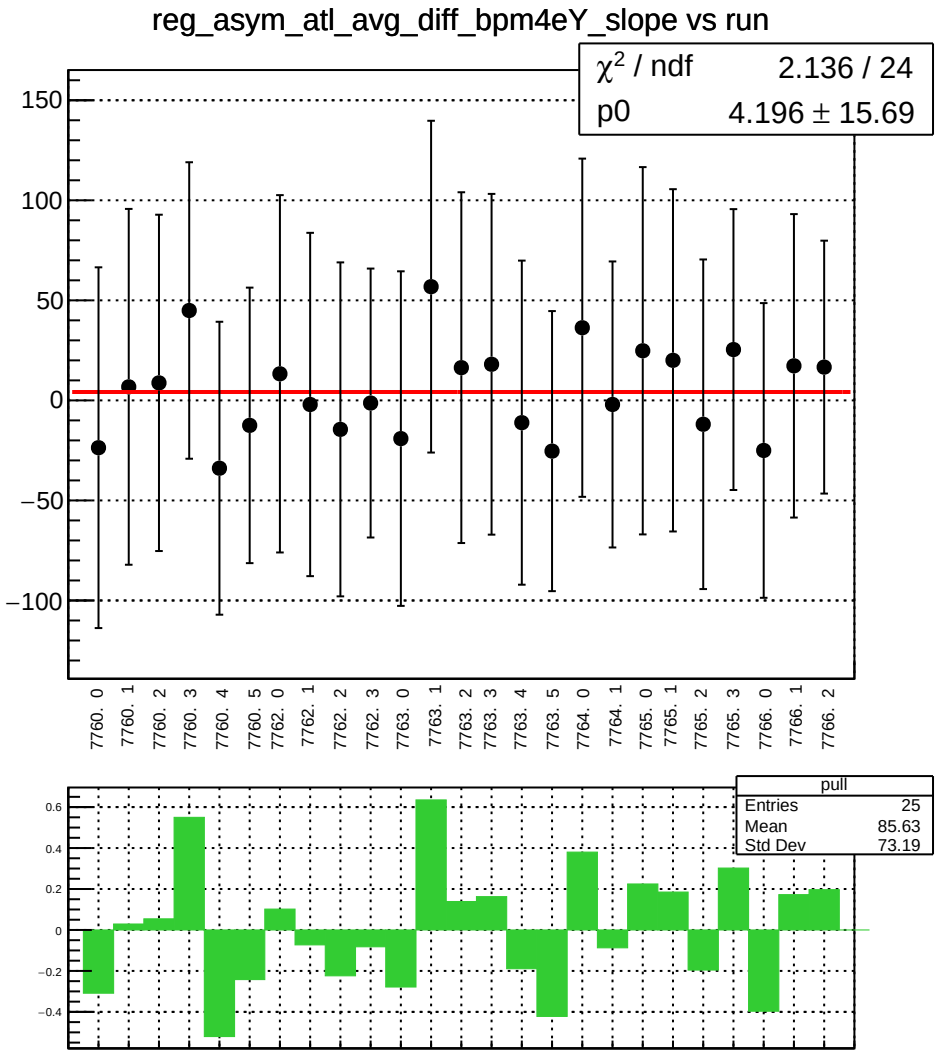

pull1D
Entries 25
Mean −0.01146
Std Dev 0.3466
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

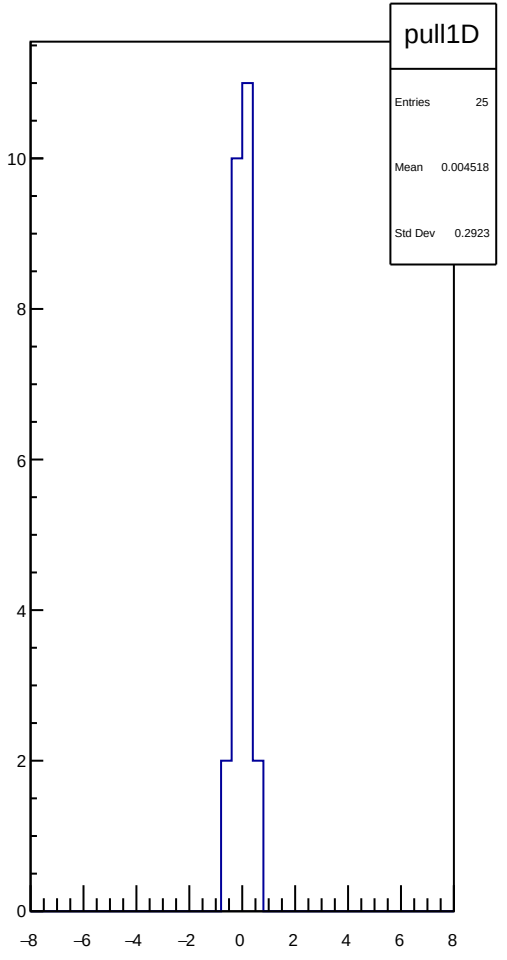

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.034 / 24
p0 48.85 ± 13.93
150
100
50
0
−50
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 130.7
Std Dev 117.2
0.4
0.2
0
−0.2
−0.4
−0.6

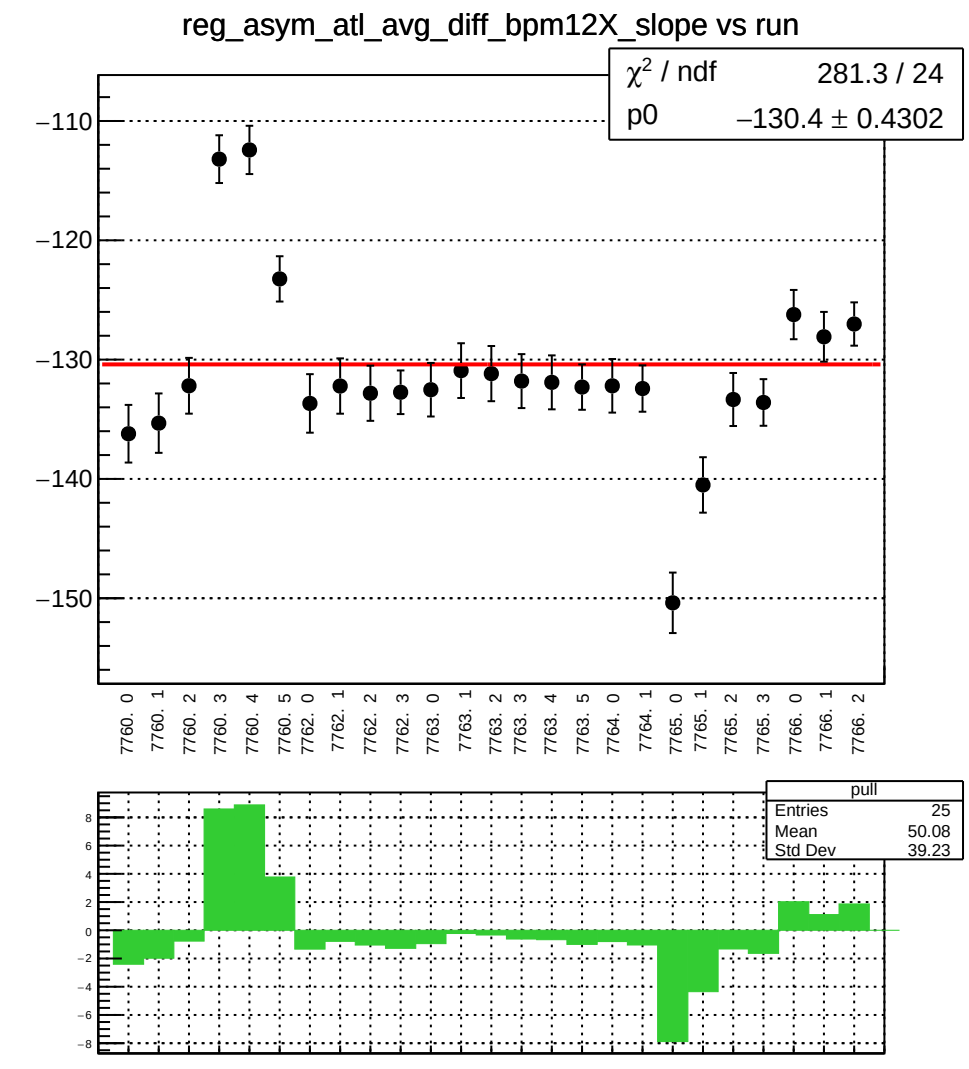

pull1D
Entries 25
Mean −0.002152
Std Dev 0.2852
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

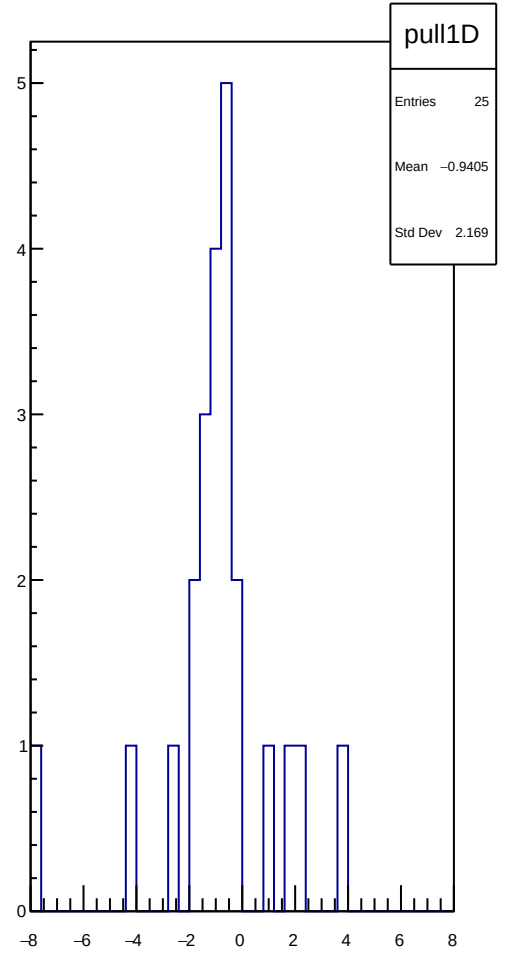

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.23 / 24
p0 109.6 ± 12.13
250
200
150
100
50
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 42.67
Std Dev 36.79
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

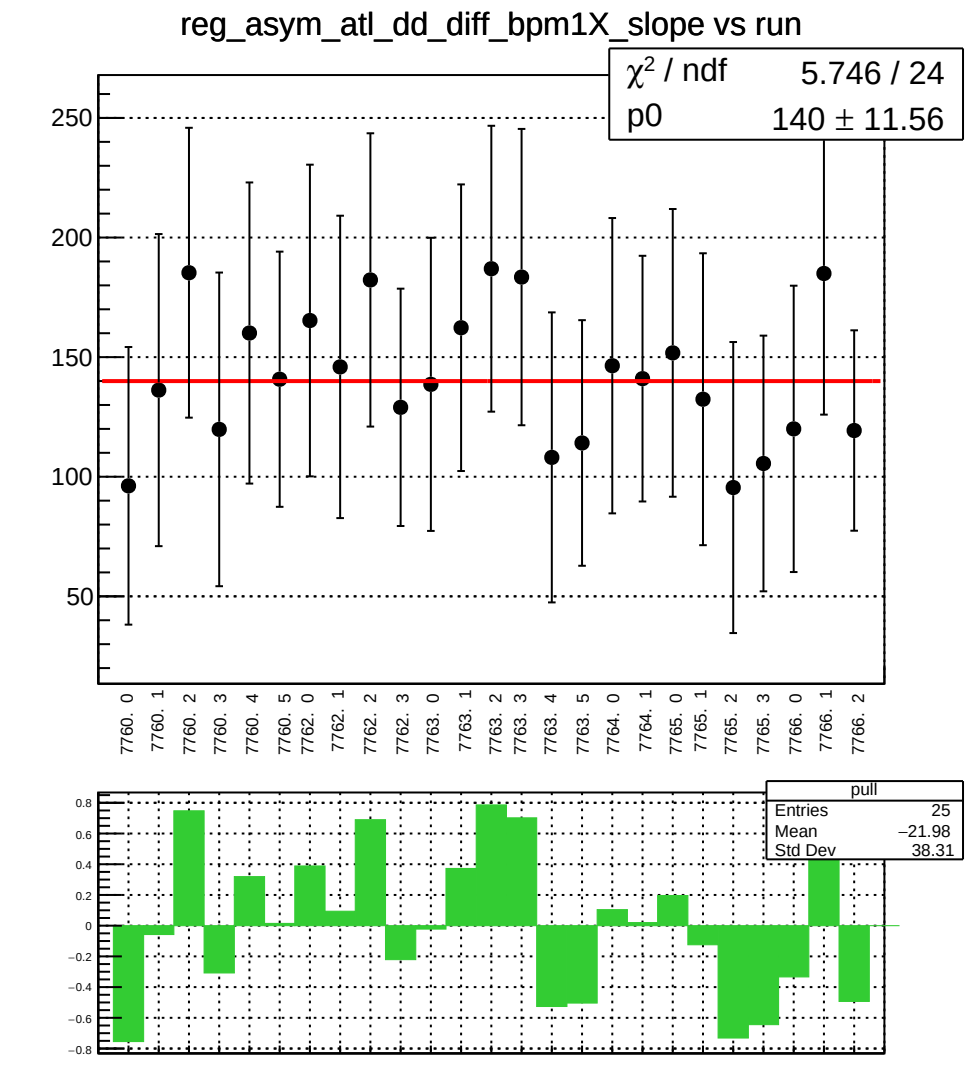

pull1D
Entries 25
Mean 0.01326
Std Dev 0.3592
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

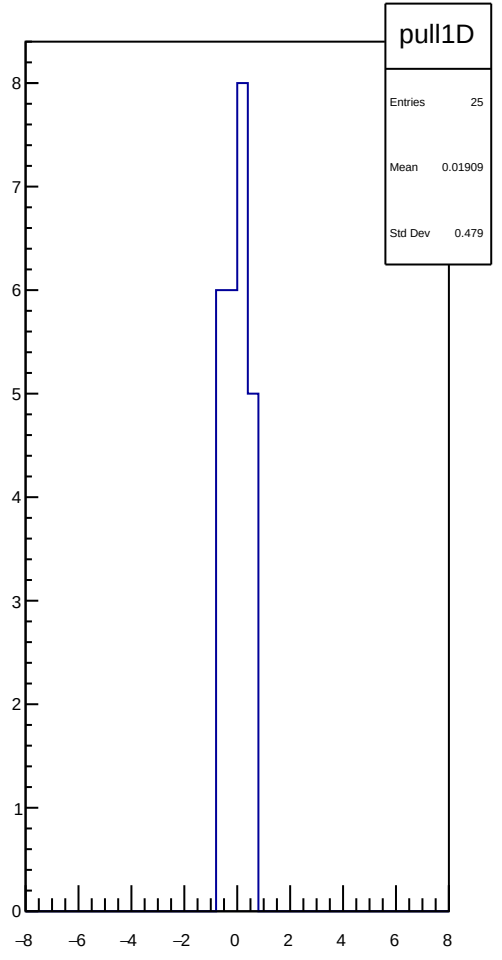

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.136 / 24
p0 4.196 ± 15.69
150
100
50
0
−50
−100
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 85.63
Std Dev 73.19
0.6
0.4
0.2
0
−0.2
−0.4

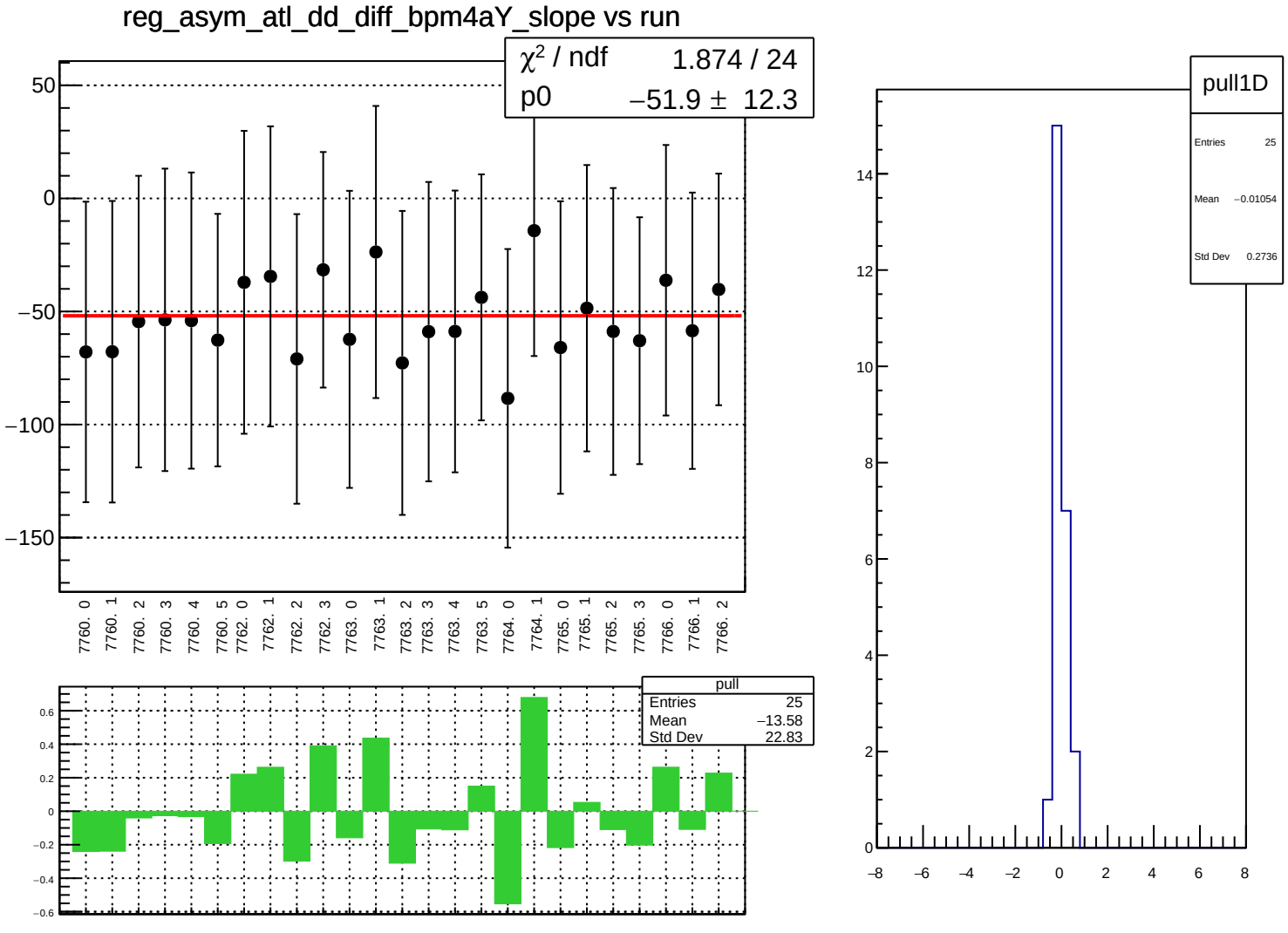

pull1D
Entries 25
Mean 0.004518
Std Dev 0.2923
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

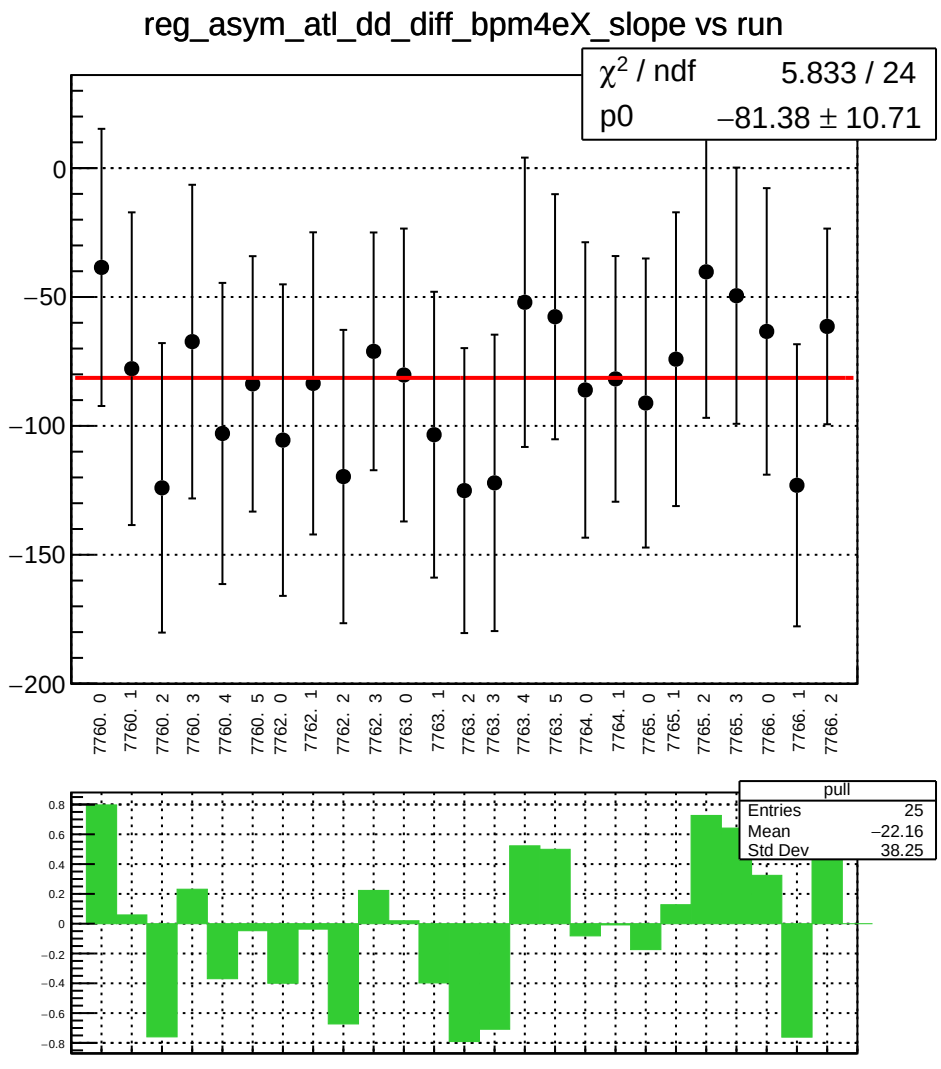

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 281.3 / 24
p0 −130.4 ± 0.4302
−110
−120
−130
−140
−150
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 50.08
Std Dev 39.23
8
6
4
2
0
−2
−4
−6
−8

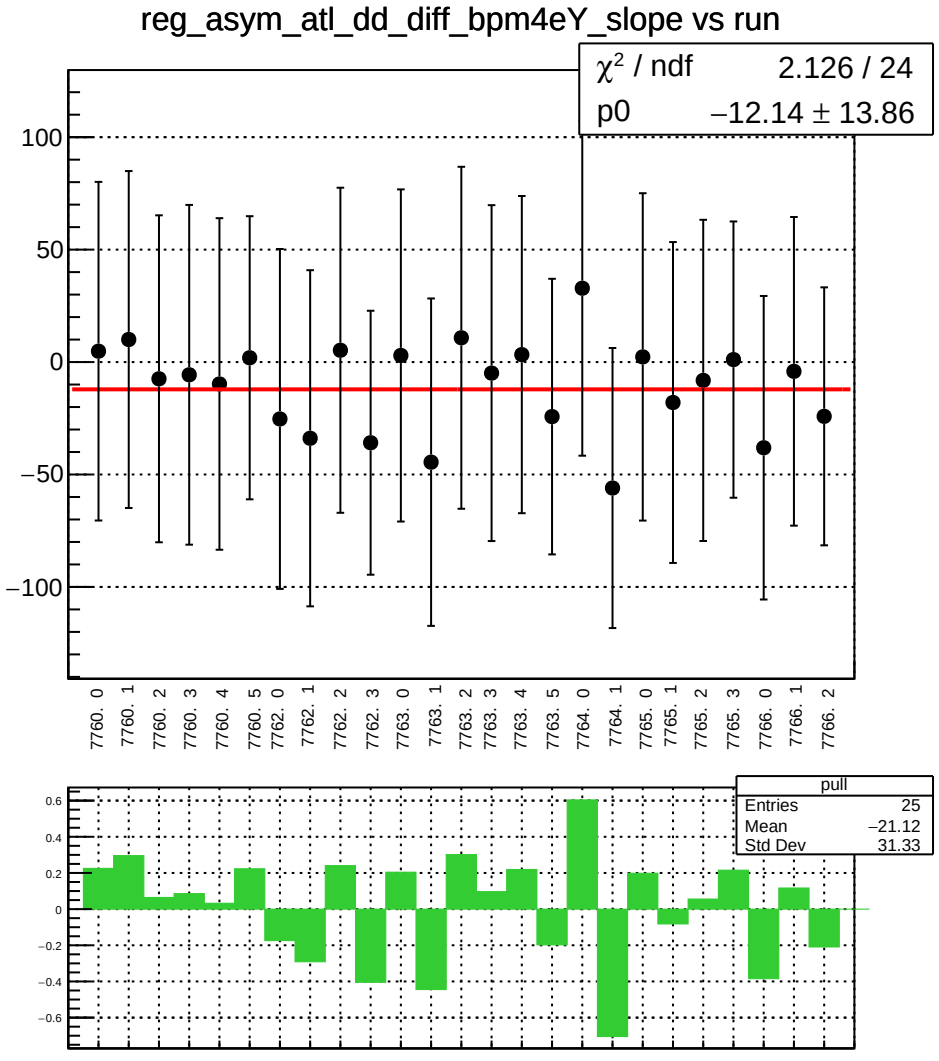

pull1D
Entries 25
Mean −0.9405
Std Dev 2.169
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

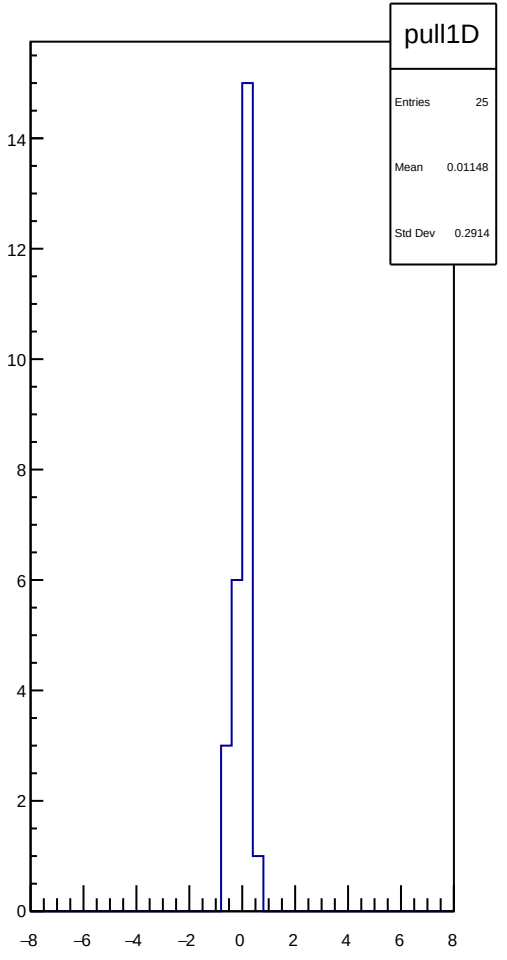

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 5.746 / 24
p0 140 ± 11.56
250
200
150
100
50
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −21.98
Std Dev 38.31
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

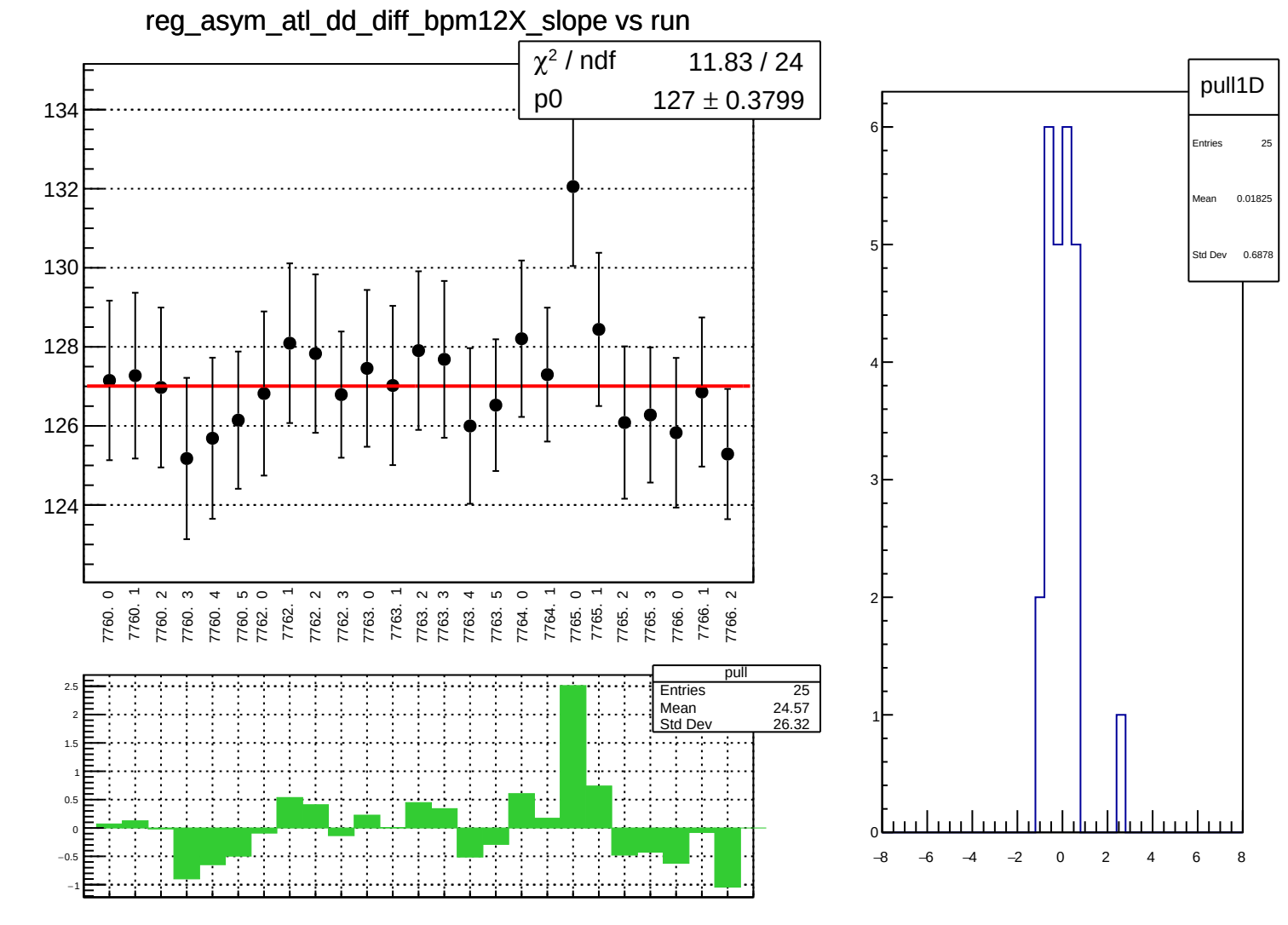

pull1D
Entries 25
Mean 0.01909
Std Dev 0.479
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

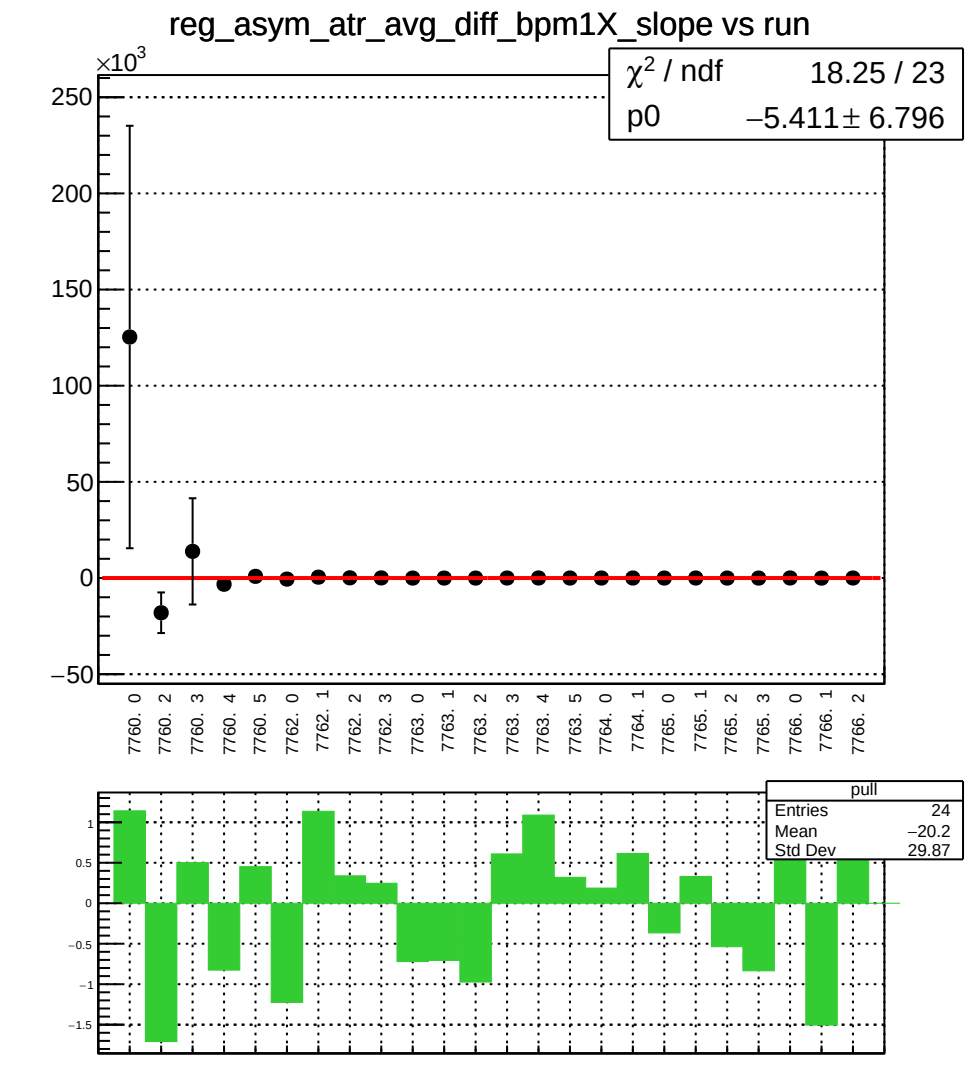

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.874 / 24
p0 −51.9 ± 12.3
50
0
−50
−100
−150
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −13.58
Std Dev 22.83
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 25
Mean −0.01054
Std Dev 0.2736
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

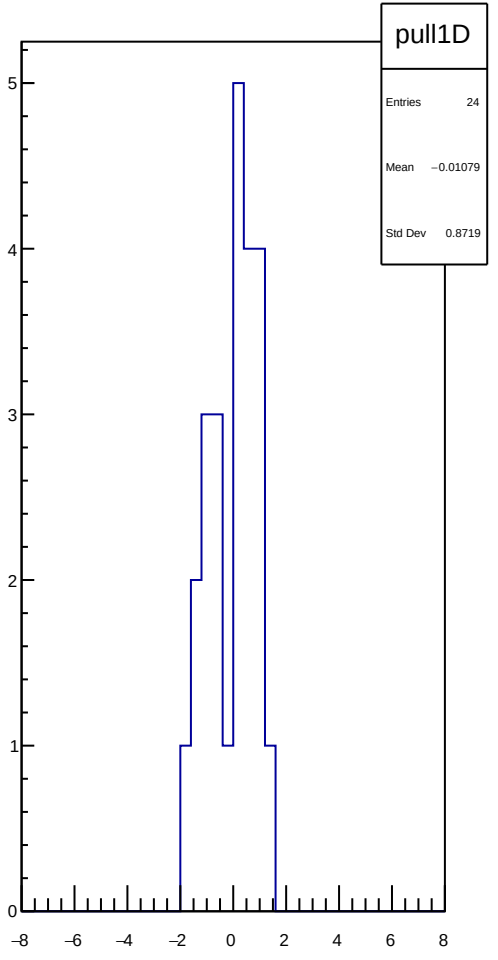

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.833 / 24
p0 −81.38 ± 10.71
0
−50
−100
−150
−200
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −22.16
Std Dev 38.25
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 25
Mean −0.02034
Std Dev 0.4826
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

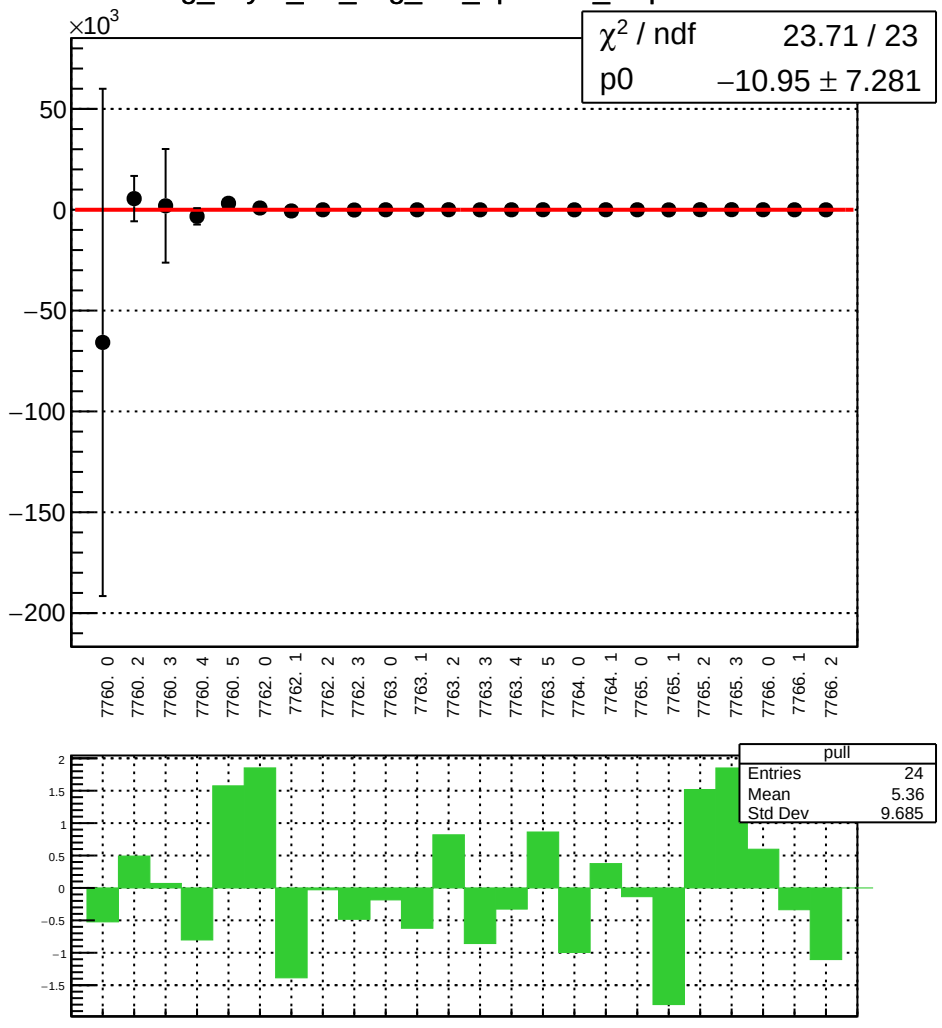

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.126 / 24
p0 −12.14 ± 13.86
100
50
0
−50
−100
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −21.12
Std Dev 31.33
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

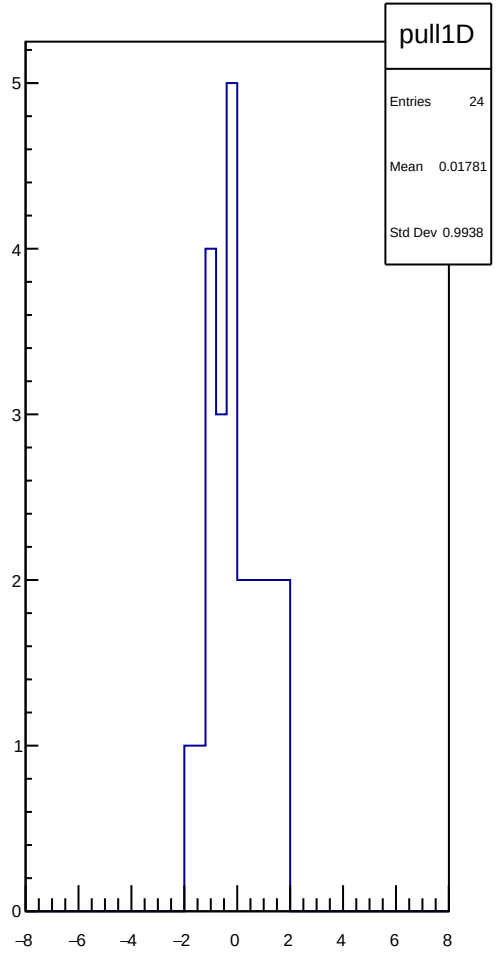

pull1D
Entries 25
Mean 0.01148
Std Dev 0.2914
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

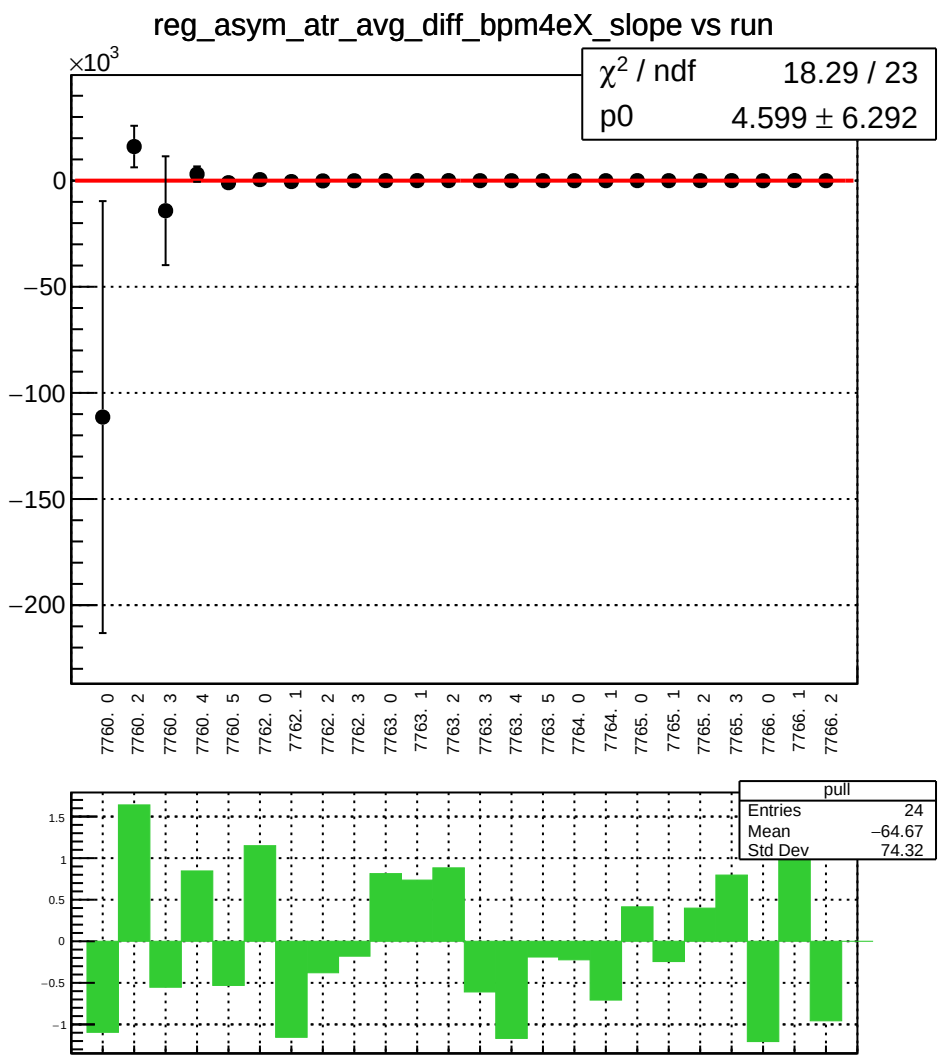

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 11.83 / 24
p0 127 ± 0.3799
134
132
130
128
126
124
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 24.57
Std Dev 26.32
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 25
Mean 0.01825
Std Dev 0.6878
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

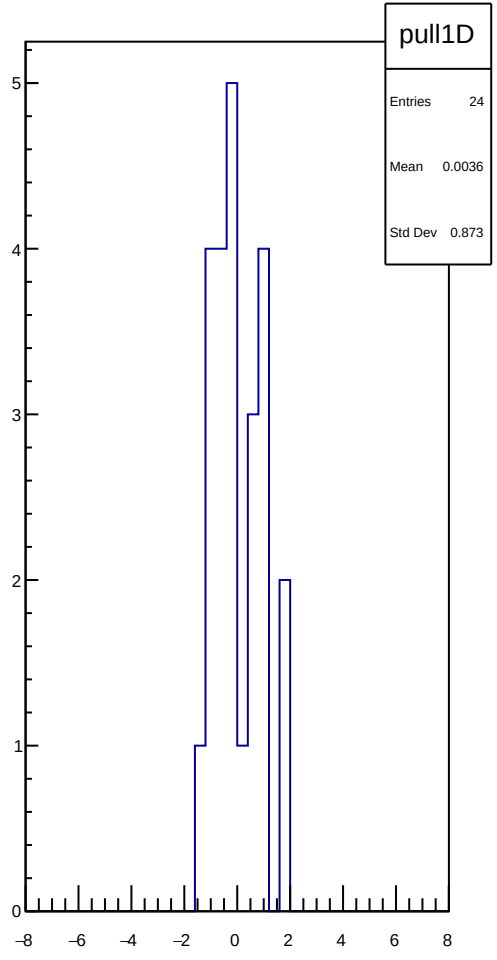

reg_asym_atr_avg_diff_bpm1X_slope vs run
×10^3
χ² / ndf 18.25 / 23
p0 −5.411 ± 6.796
250
200
150
100
50
0
−50
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 24
Mean −20.2
Std Dev 29.87
1
0.5
0
−0.5
−1
−1.5

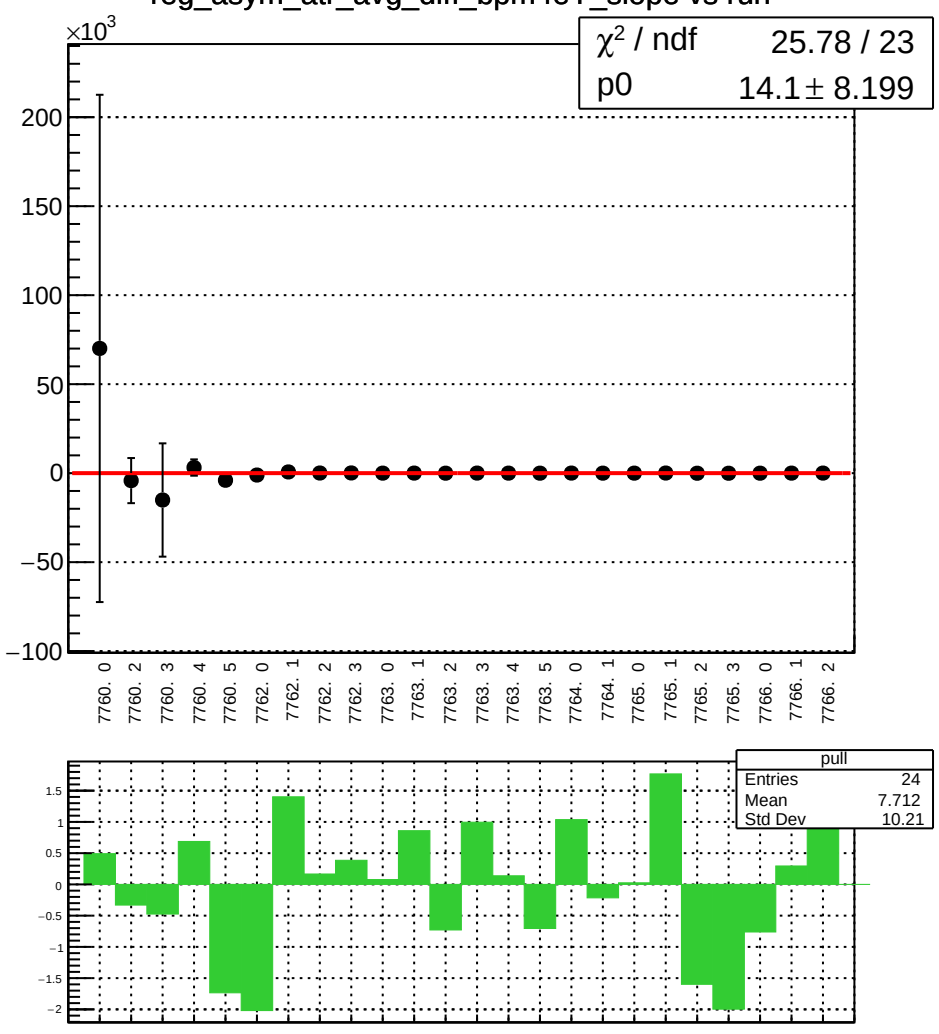

pull1D
Entries 24
Mean −0.01079
Std Dev 0.8719
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

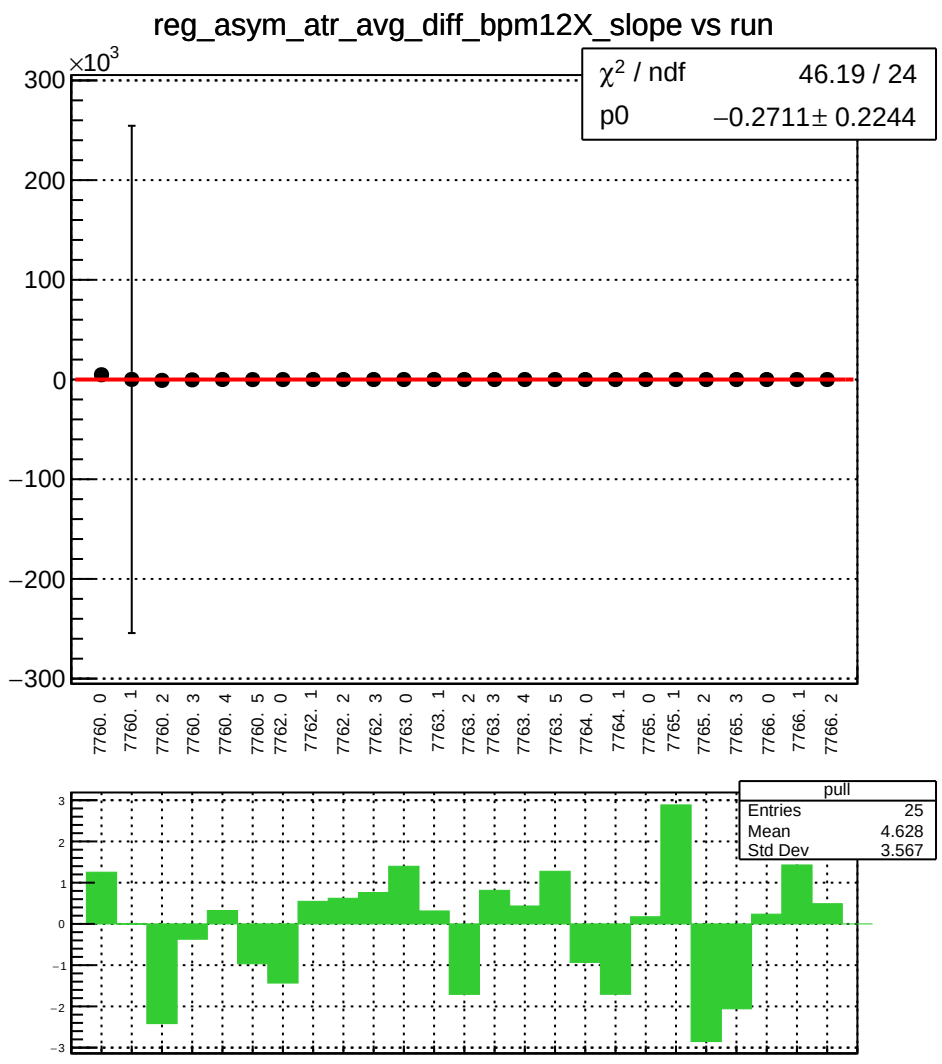

reg_asym_atr_avg_diff_bpm4aY_slope vs run
×10^3
χ^2 / ndf 23.71 / 23
p0 −10.95 ± 7.281
50
0
−50
−100
−150
−200
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 24
Mean 5.36
Std Dev 9.685
2
1.5
1
0.5
0
−0.5
−1
−1.5

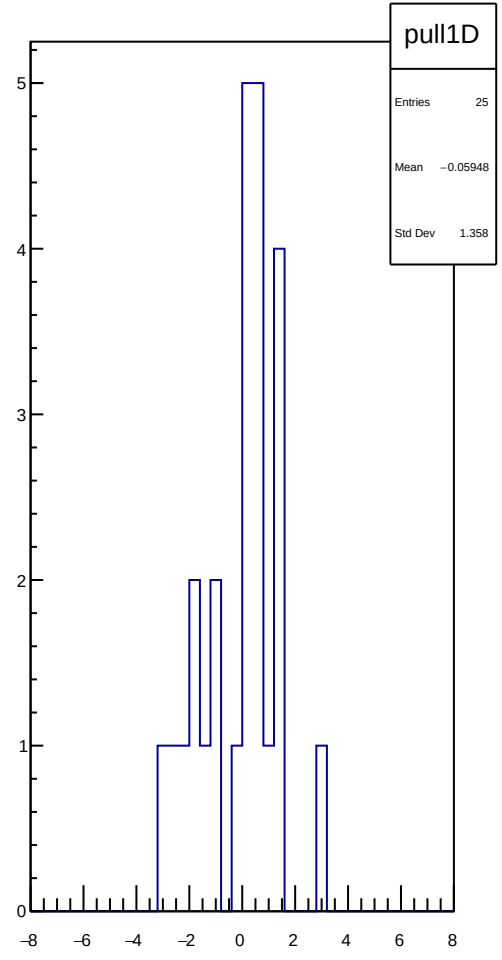

pull1D
Entries 24
Mean 0.01781
Std Dev 0.9938
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

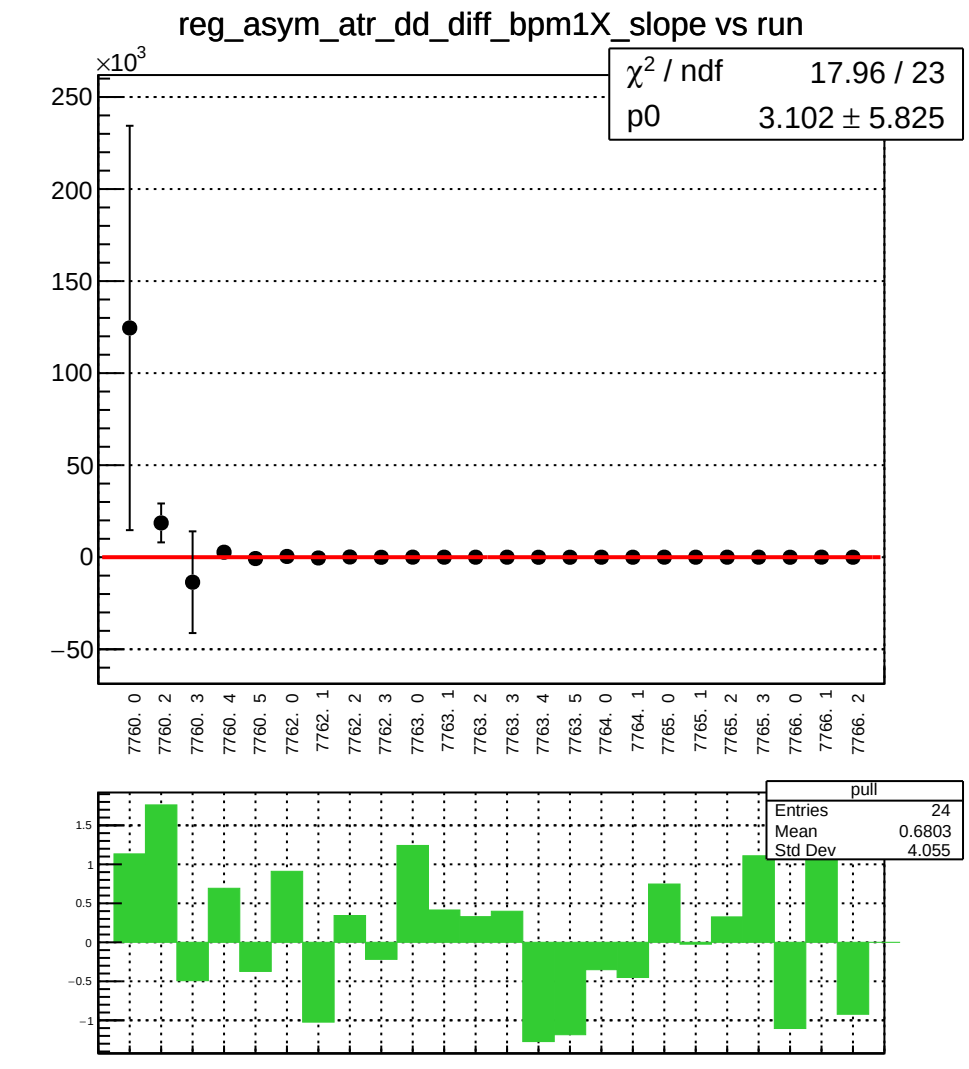

reg_asym_atr_avg_diff_bpm4eX_slope vs run
×10^3
χ^2 / ndf 18.29 / 23
p0 4.599 ± 6.292
0
−50
−100
−150
−200
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 24
Mean −64.67
Std Dev 74.32
1.5
1
0.5
0
−0.5
−1

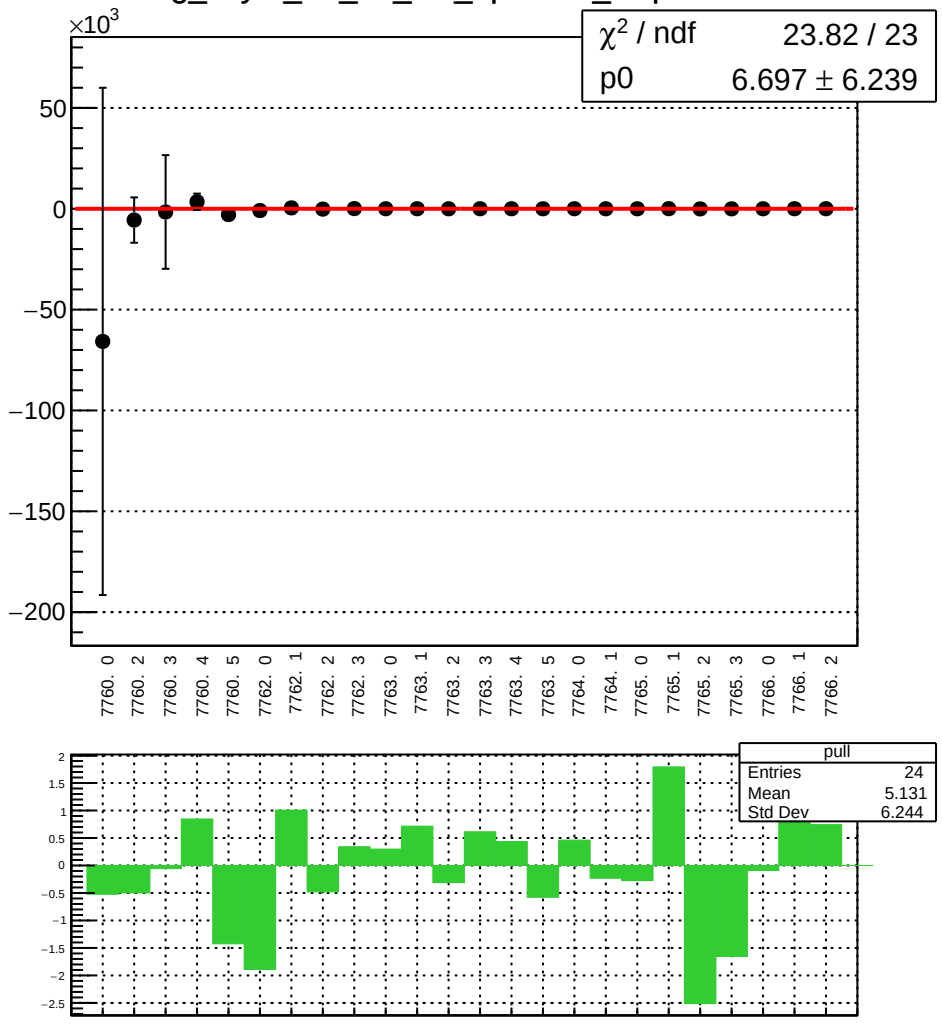

pull1D
Entries 24
Mean 0.0036
Std Dev 0.873
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

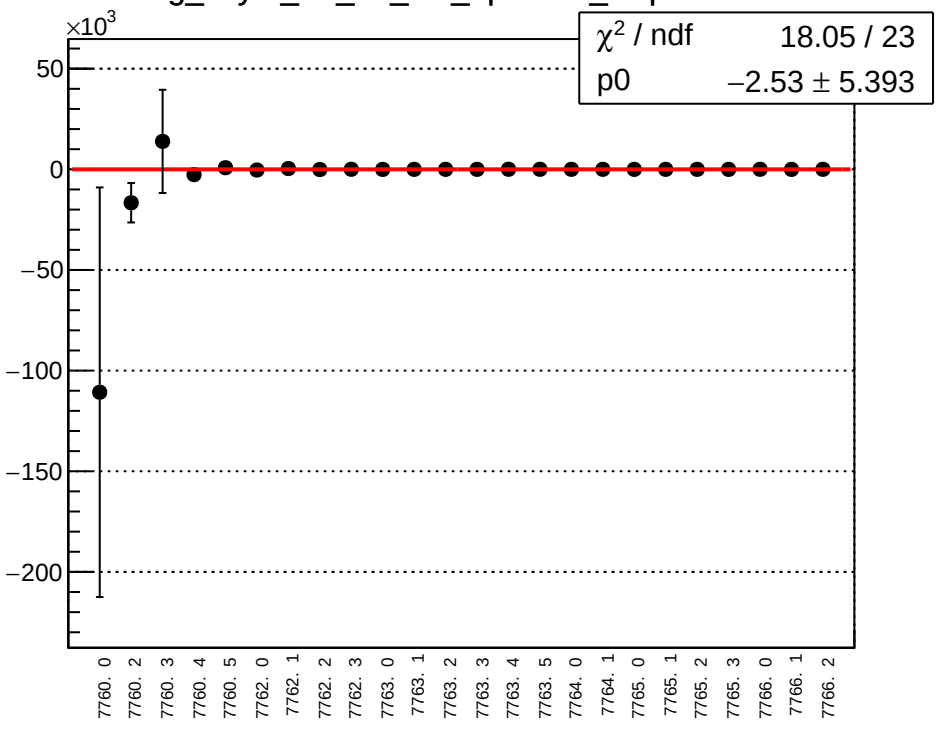

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 25.78 / 23
p0 14.1 ± 8.199
×10³
200
150
100
50
0
−50
−100
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 24
Mean 7.712
Std Dev 10.21
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.0463
Std Dev 1.035
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

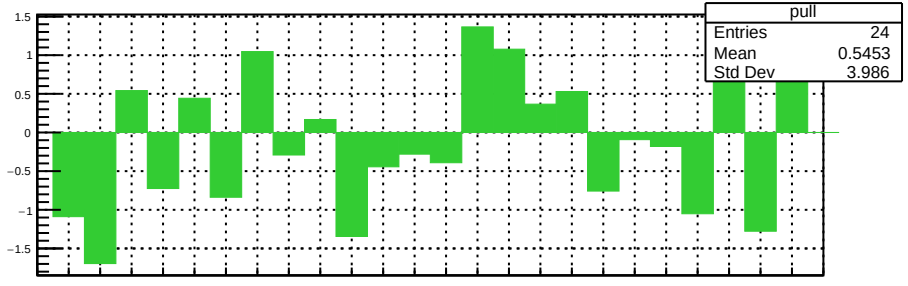

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 46.19 / 24
p0 −0.2711± 0.2244
×10³
300
200
100
0
−100
−200
−300
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 4.628
Std Dev 3.567
3
2
1
0
−1
−2
−3

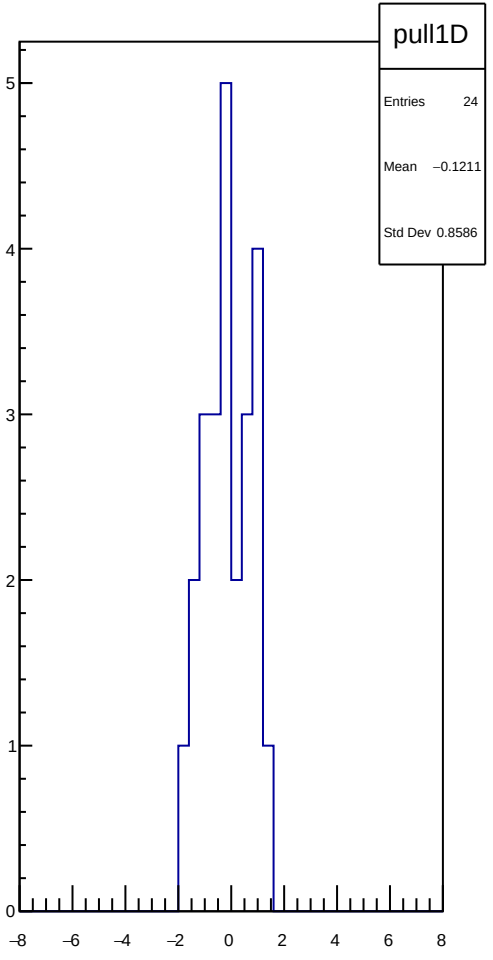

pull1D
Entries 25
Mean −0.05948
Std Dev 1.358
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

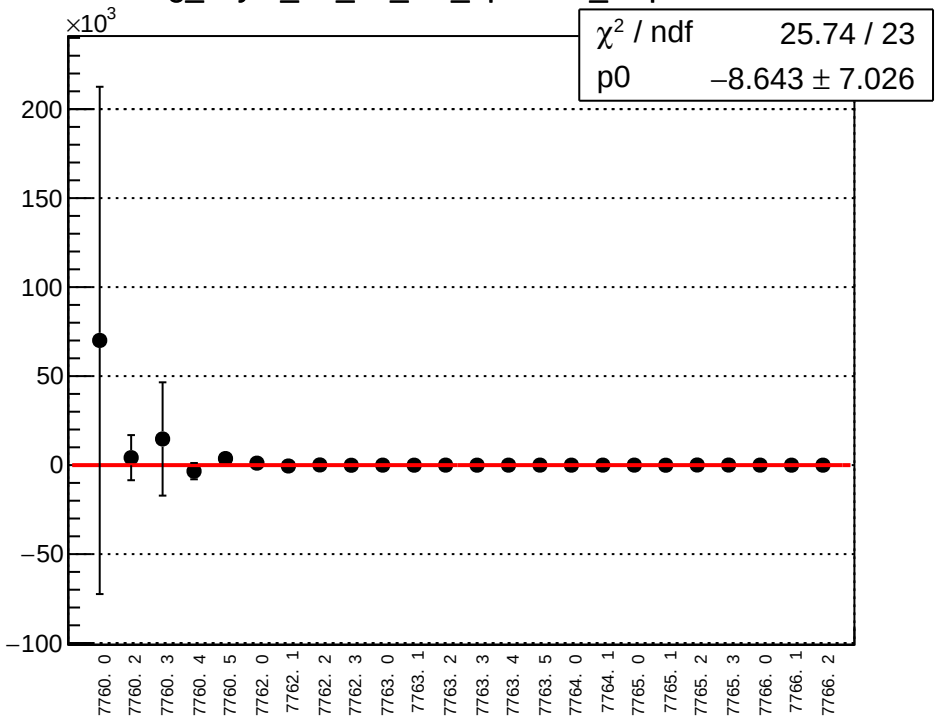

reg_asym_atr_dd_diff_bpm1X_slope vs run
×10^3
χ^2 / ndf 17.96 / 23
p0 3.102 ± 5.825
250
200
150
100
50
0
−50
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 24
Mean 0.6803
Std Dev 4.055
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean 0.1318
Std Dev 0.855
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

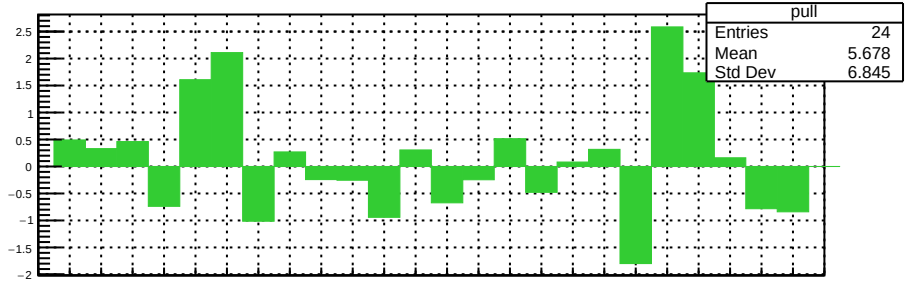

reg_asym_atr_dd_diff_bpm4aY_slope vs run
×10^3
χ^2 / ndf 23.82 / 23
p0 6.697 ± 6.239
50
0
−50
−100
−150
−200
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 24
Mean 5.131
Std Dev 6.244
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 24
Mean −0.09778
Std Dev 0.9915
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

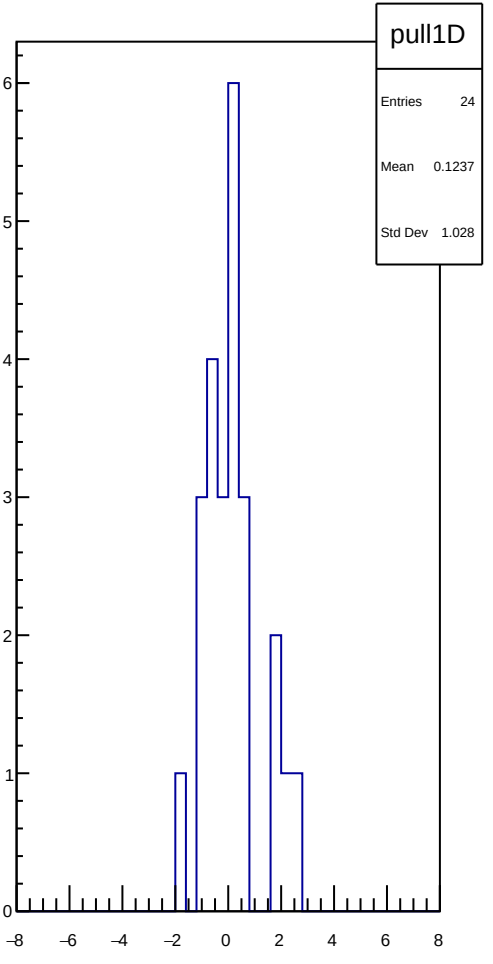

reg_asym_atr_dd_diff_bpm4eX_slope vs run
×10^3
χ² / ndf 18.05 / 23
p0 −2.53 ± 5.393
50
0
−50
−100
−150
−200
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

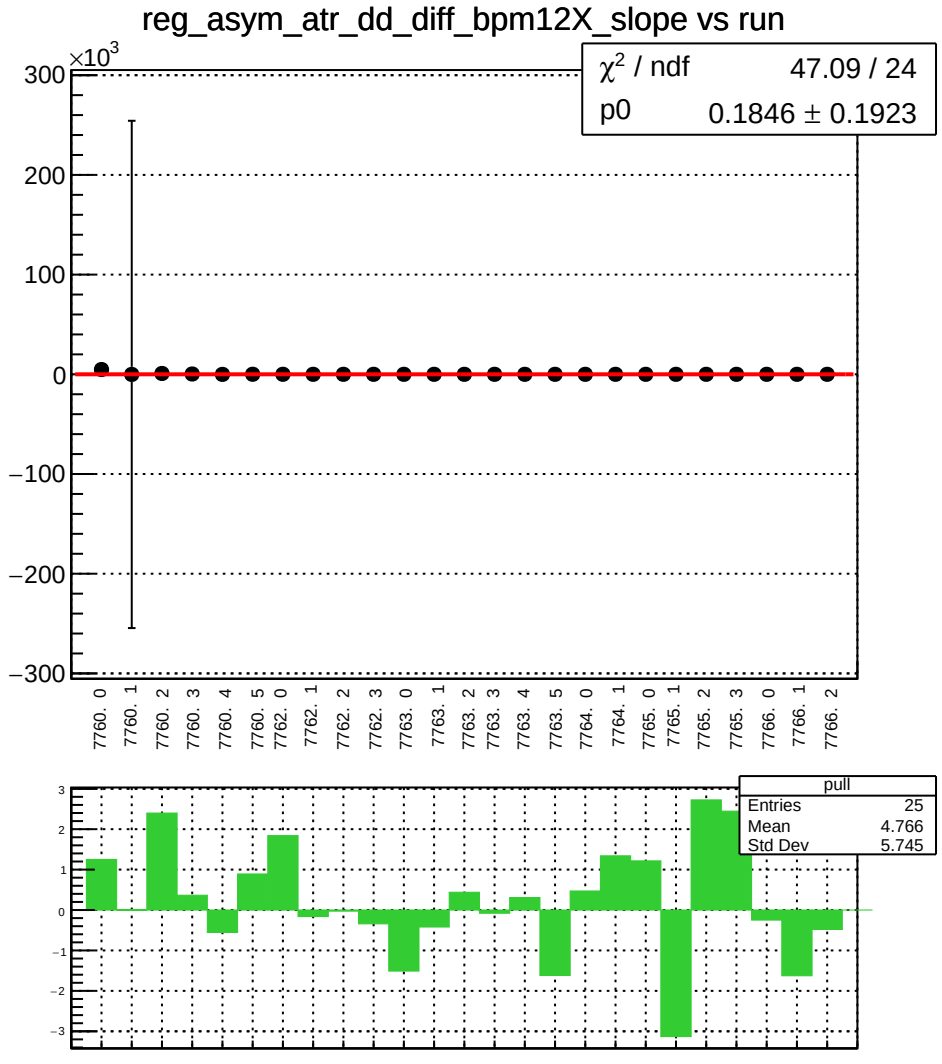

pull
Entries 24
Mean 0.5453
Std Dev 3.986
1.5
1
0.5
0
−0.5
−1
−1.5

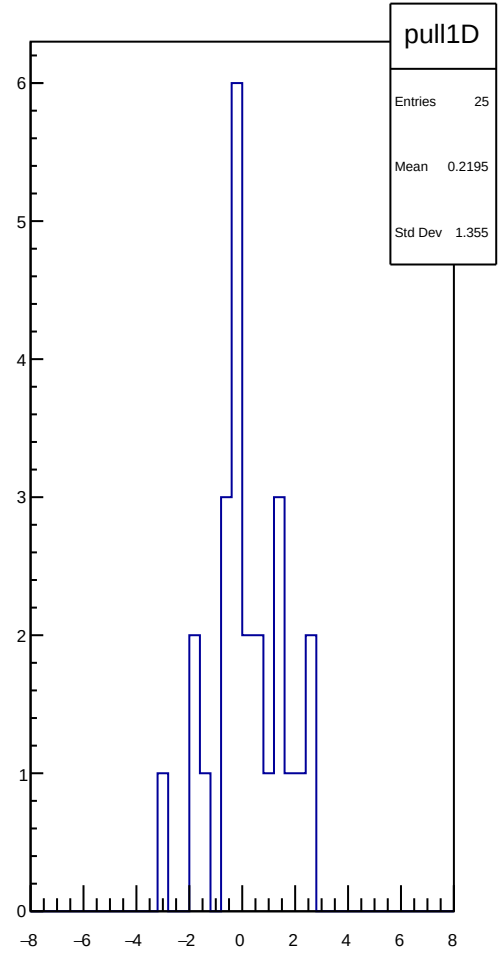

pull1D
Entries 24
Mean −0.1211
Std Dev 0.8586
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

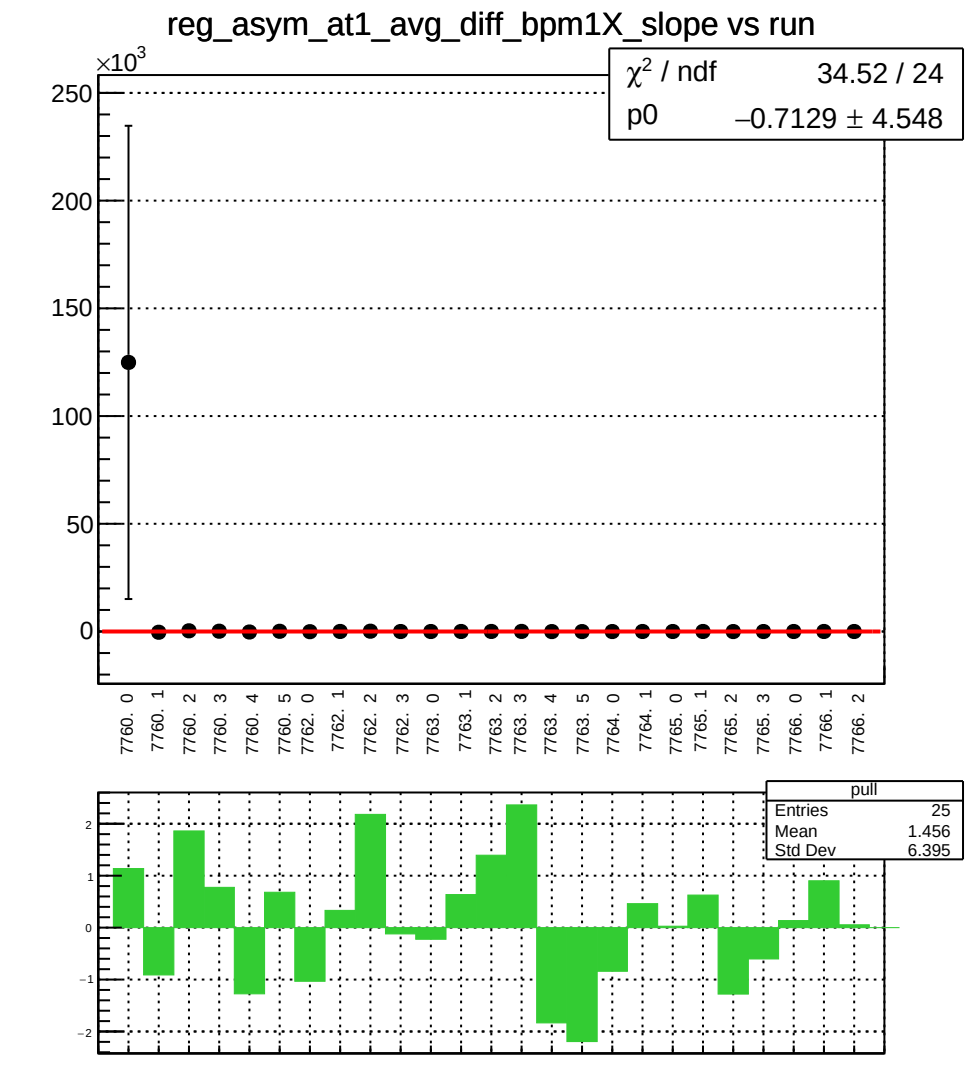

reg_asym_atr_dd_diff_bpm4eY_slope vs run
×10^3
χ² / ndf 25.74 / 23
p0 −8.643 ± 7.026
200
150
100
50
0
−50
−100
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

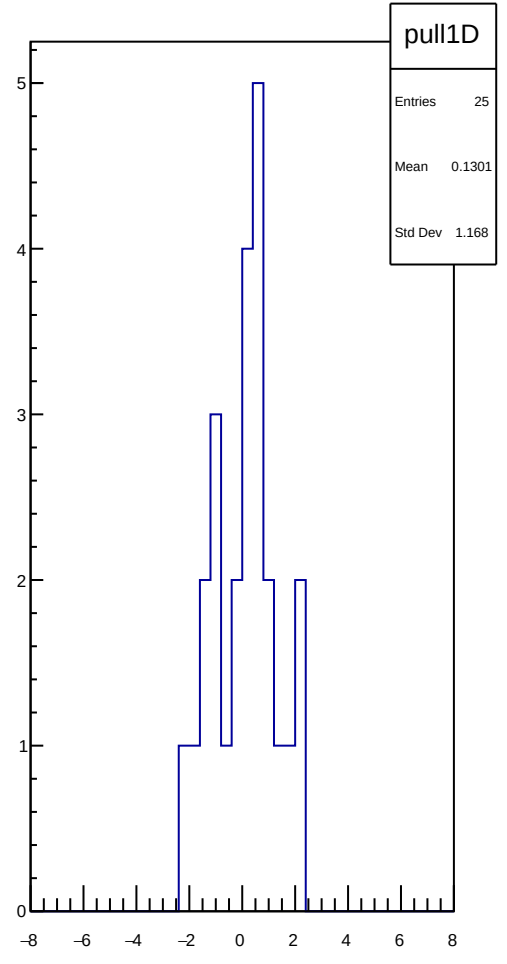

pull
Entries 24
Mean 5.678
Std Dev 6.845
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

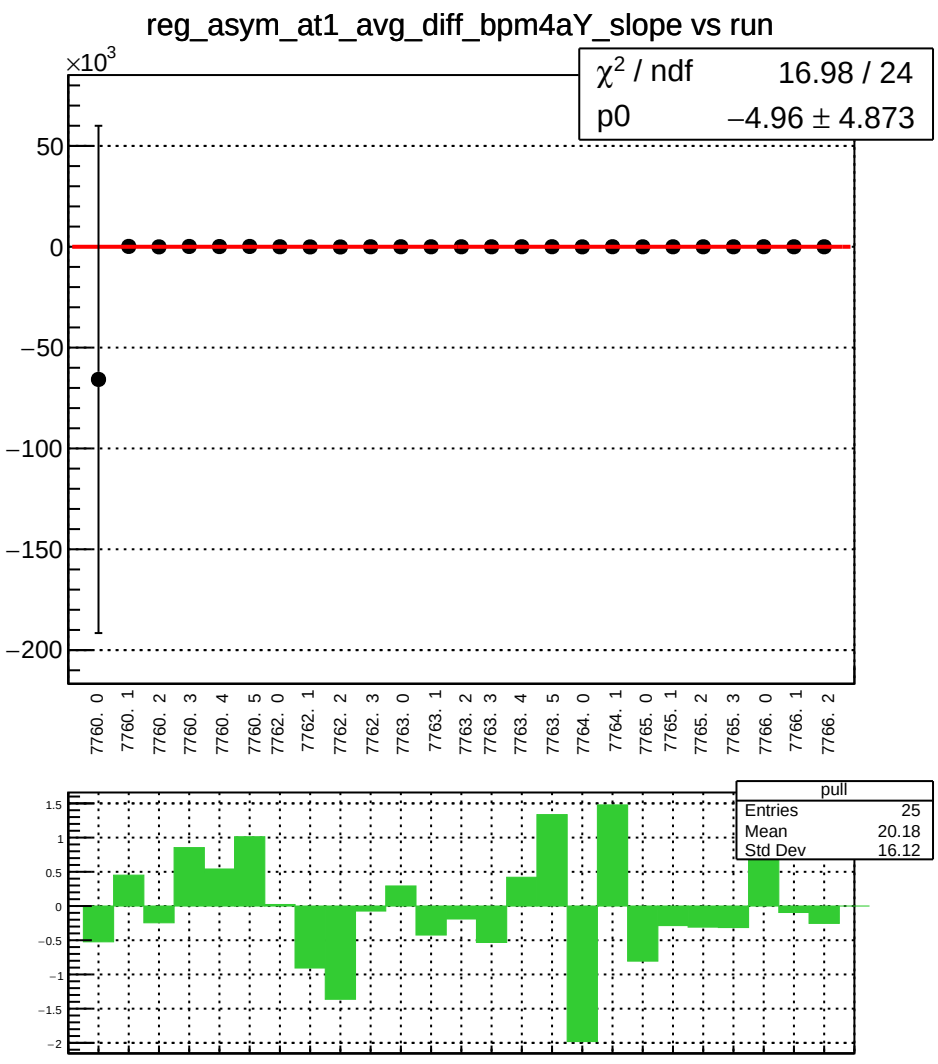

pull1D
Entries 24
Mean 0.1237
Std Dev 1.028
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

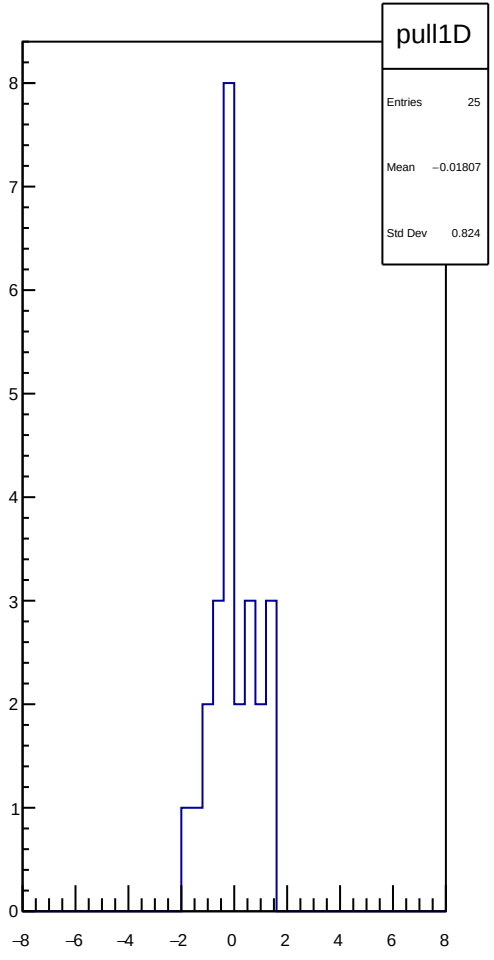

reg_asym_atr_dd_diff_bpm12X_slope vs run
×10^3
χ² / ndf 47.09 / 24
p0 0.1846 ± 0.1923
300
200
100
0
−100
−200
−300
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 4.766
Std Dev 5.745
3
2
1
0
−1
−2
−3

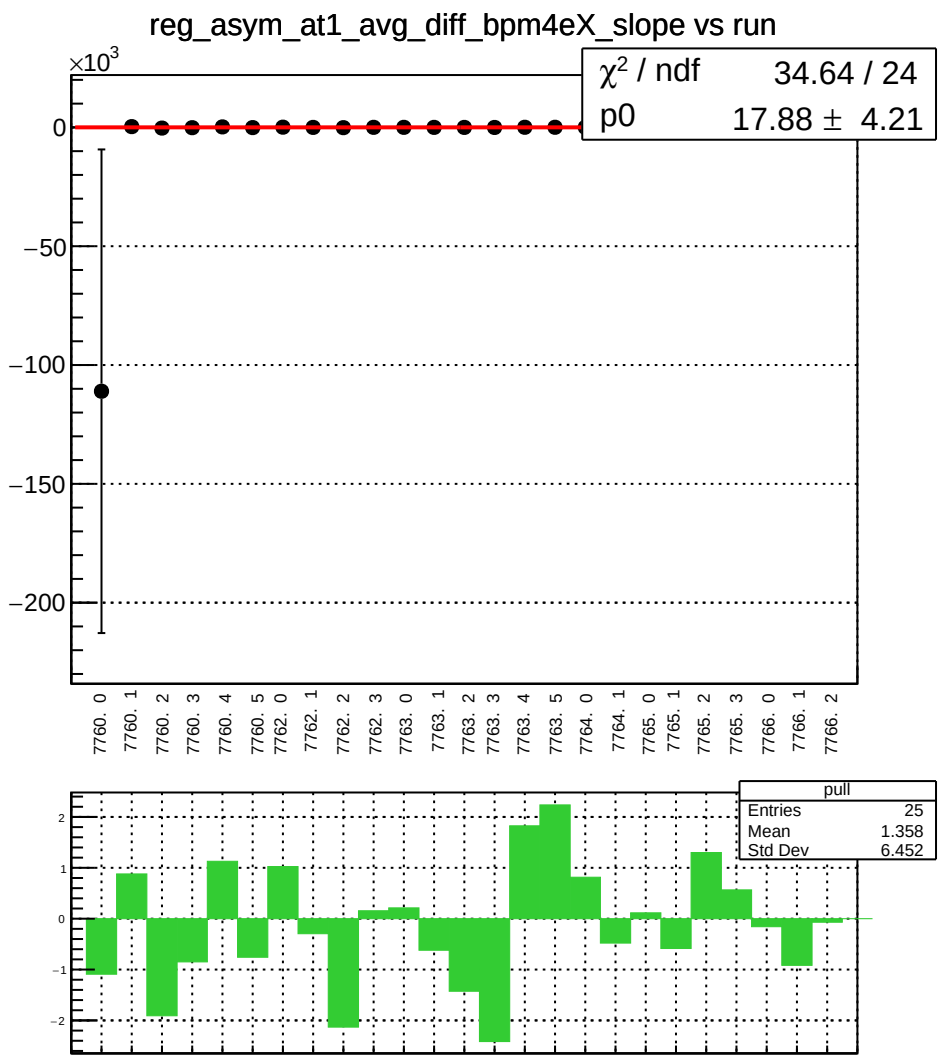

pull1D
Entries 25
Mean 0.2195
Std Dev 1.355
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

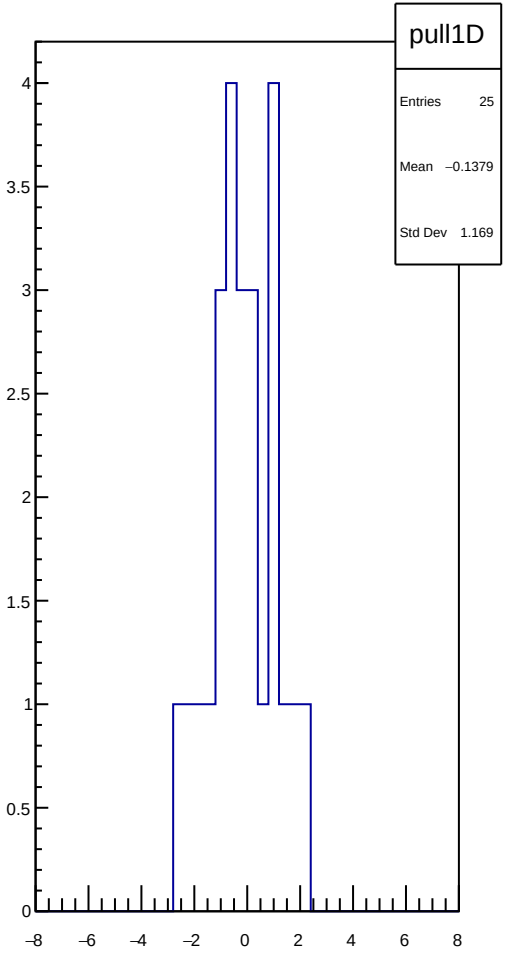

reg_asym_at1_avg_diff_bpm1X_slope vs run
×10^3
χ² / ndf 34.52 / 24
p0 −0.7129 ± 4.548
250
200
150
100
50
0
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 1.456
Std Dev 6.395
2
1
0
−1
−2

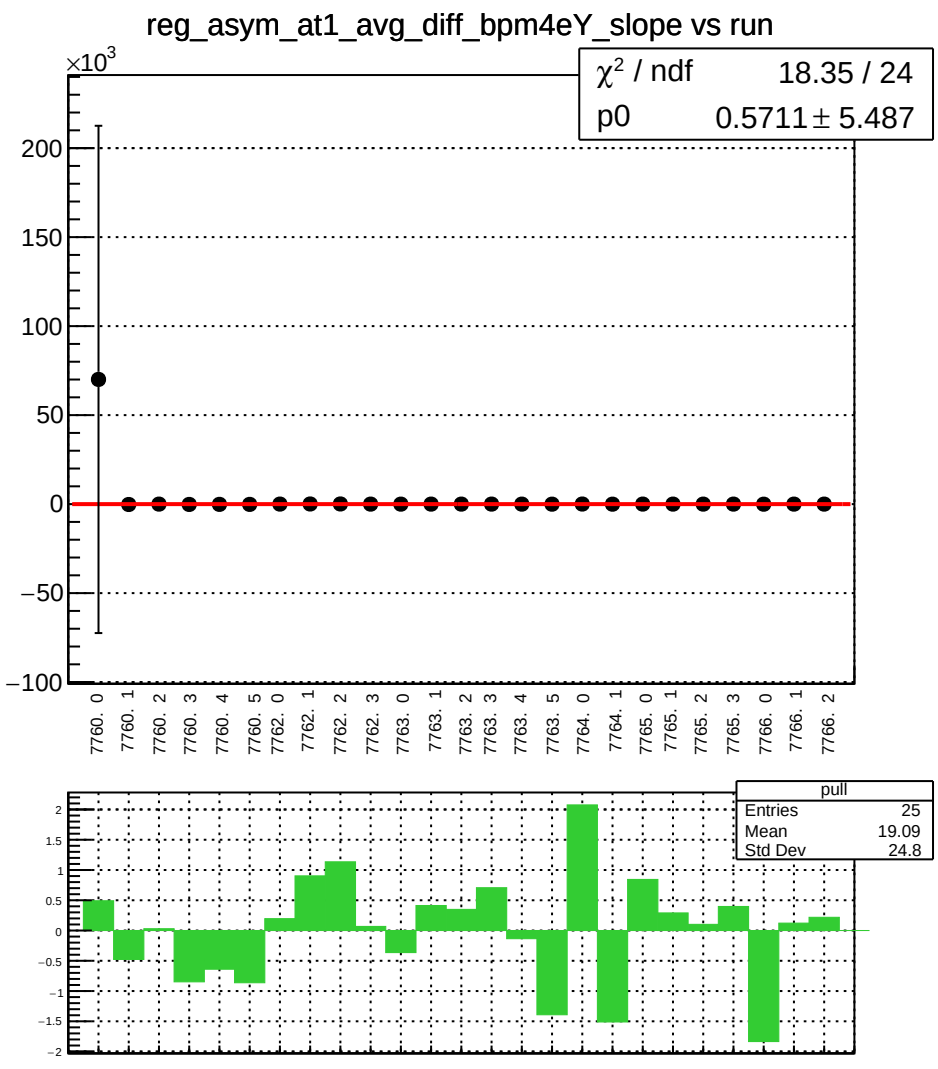

pull1D
Entries 25
Mean 0.1301
Std Dev 1.168
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

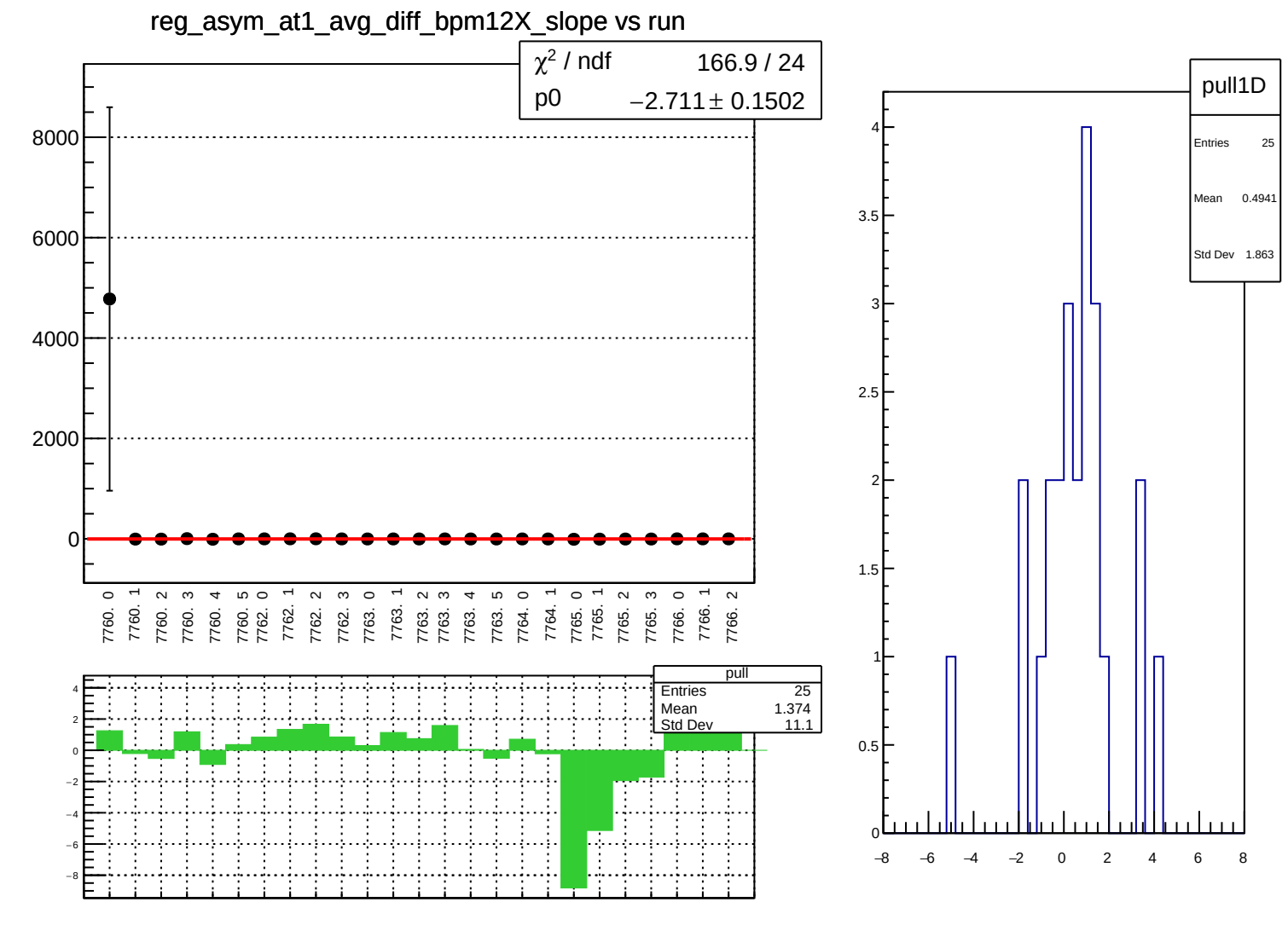

reg_asym_at1_avg_diff_bpm4aY_slope vs run
×10^3
χ^2 / ndf 16.98 / 24
p0 −4.96 ± 4.873
50
0
−50
−100
−150
−200
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 20.18
Std Dev 16.12
1.5
1
0.5
0
−0.5
−1
−1.5
−2

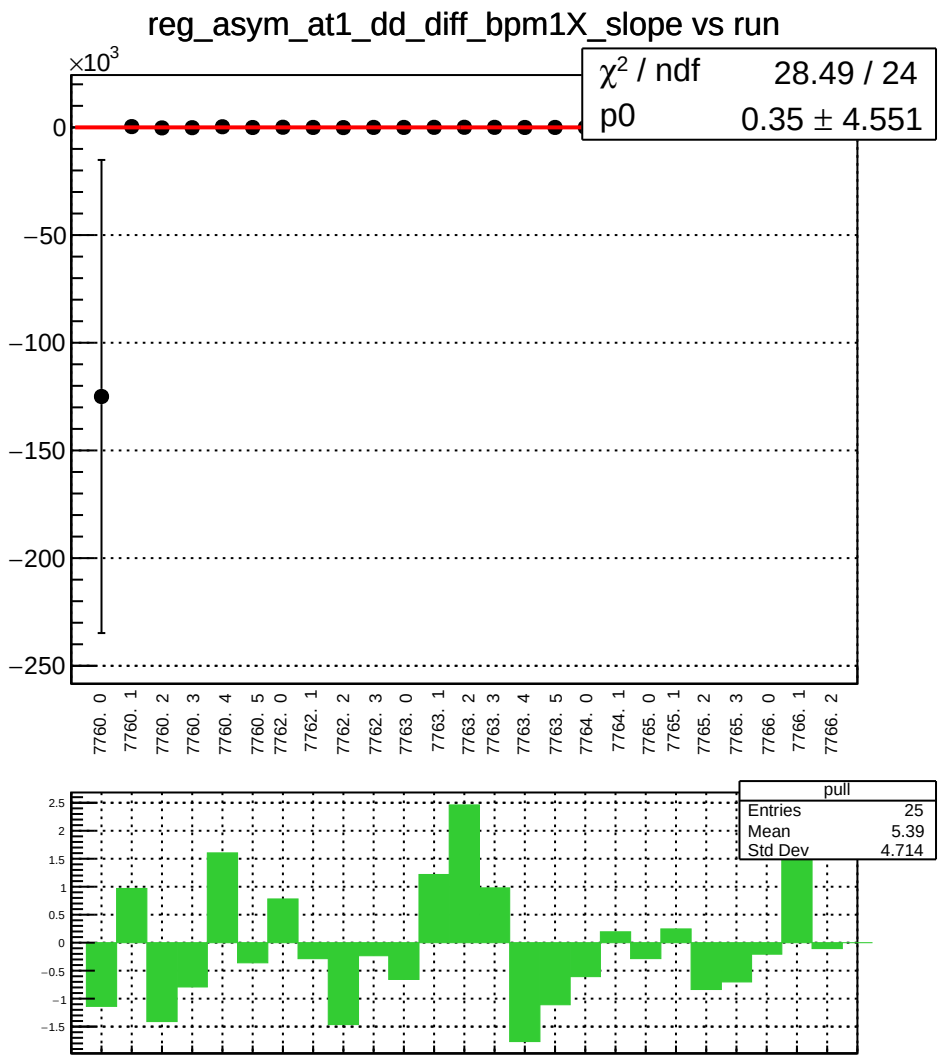

pull1D
Entries 25
Mean −0.01807
Std Dev 0.824
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

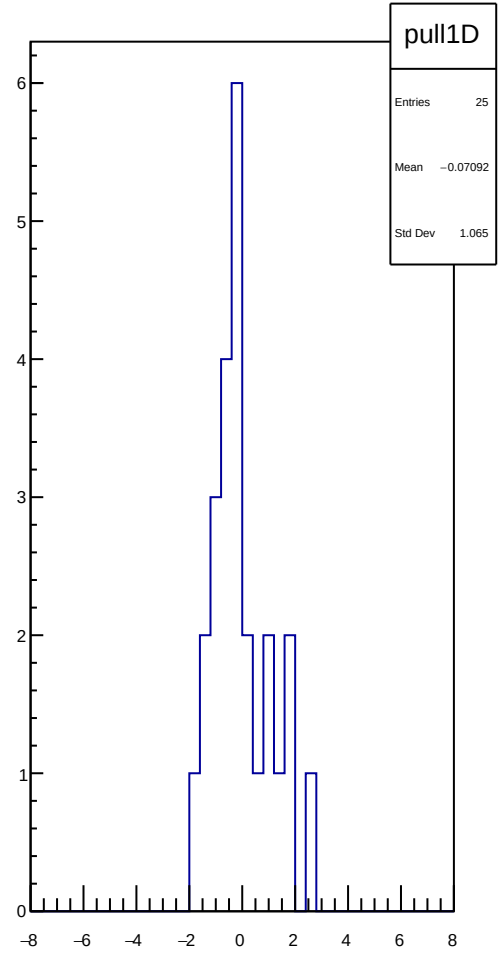

reg_asym_at1_avg_diff_bpm4eX_slope vs run
×10^3
χ^2 / ndf 34.64 / 24
p0 17.88 ± 4.21
0
−50
−100
−150
−200
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 1.358
Std Dev 6.452
2
1
0
−1
−2

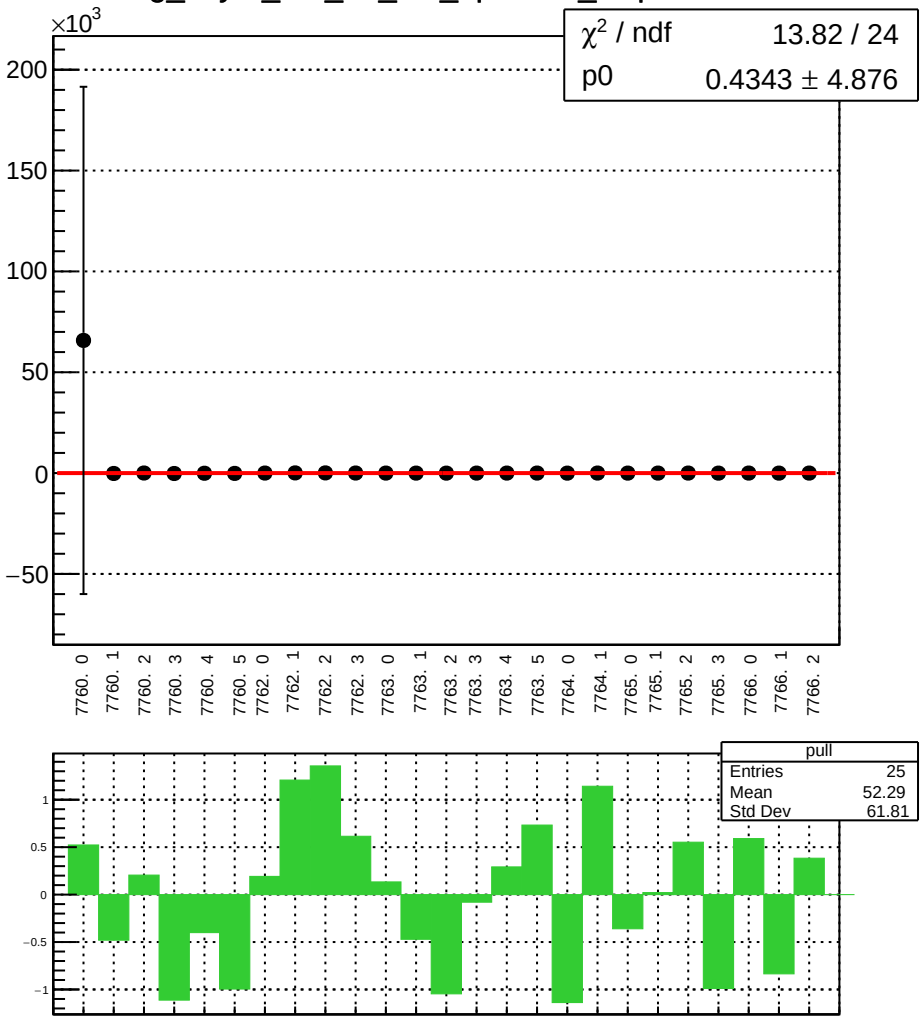

pull1D
Entries 25
Mean −0.1379
Std Dev 1.169
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

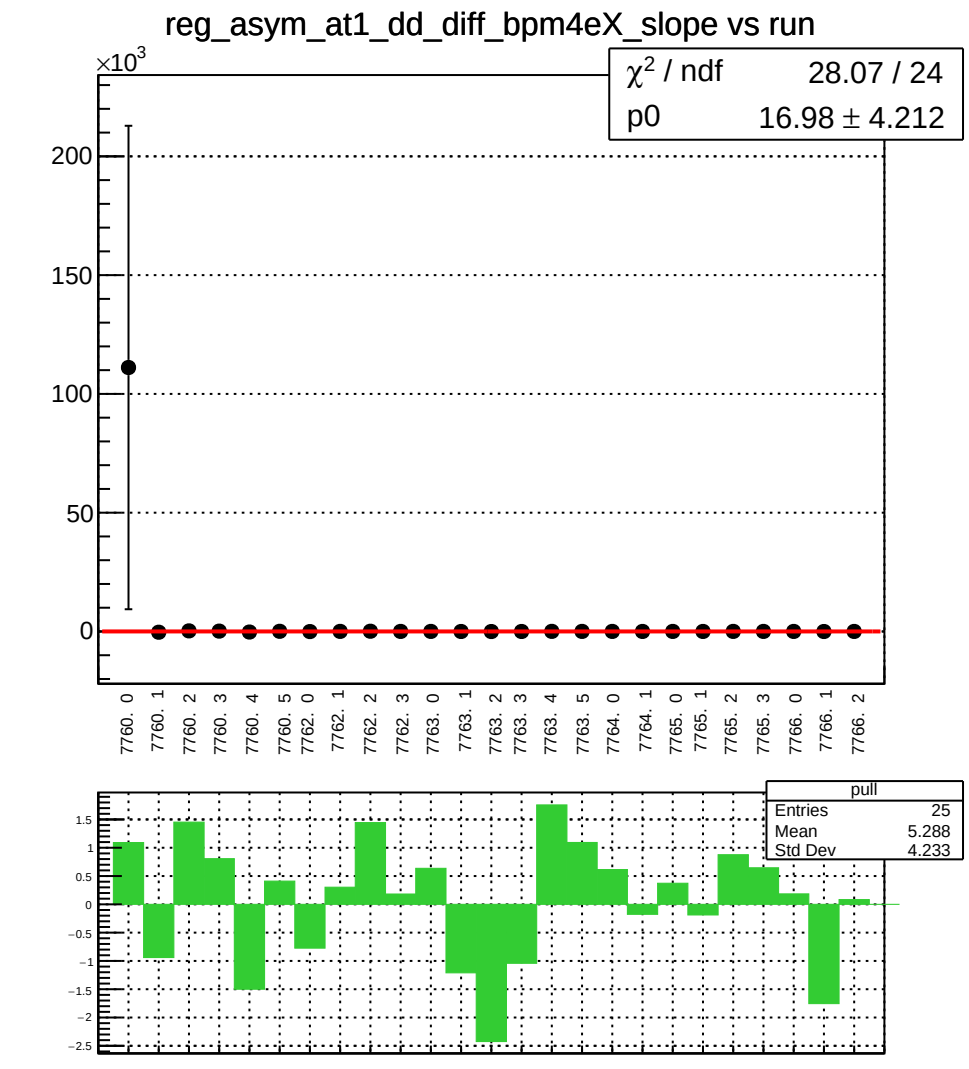

reg_asym_at1_avg_diff_bpm4eY_slope vs run
×10^3
χ² / ndf 18.35 / 24
p0 0.5711 ± 5.487
200
150
100
50
0
−50
−100
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 19.09
Std Dev 24.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 25
Mean 0.01116
Std Dev 0.8567
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

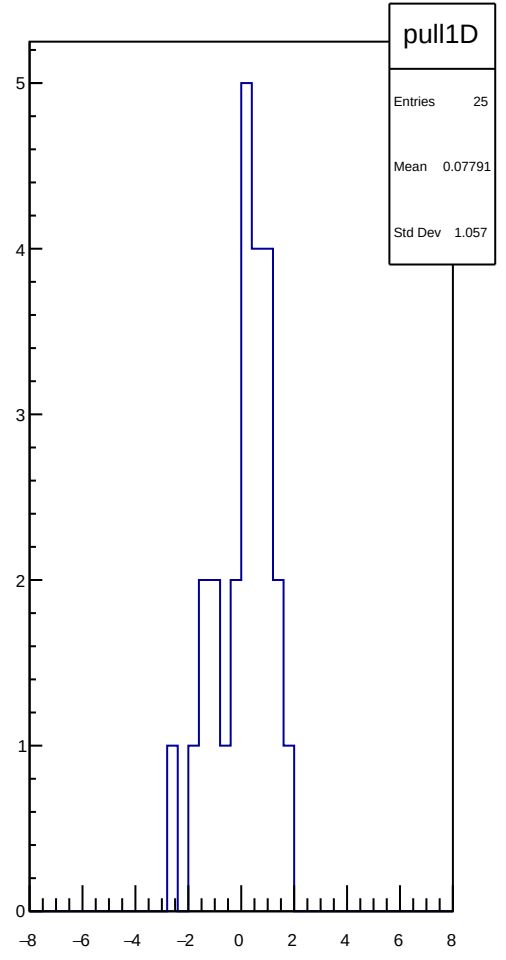

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 166.9 / 24
p0 −2.711 ± 0.1502
8000
6000
4000
2000
0
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 1.374
Std Dev 11.1
4
2
0
−2
−4
−6
−8
pull1D
Entries 25
Mean 0.4941
Std Dev 1.863
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

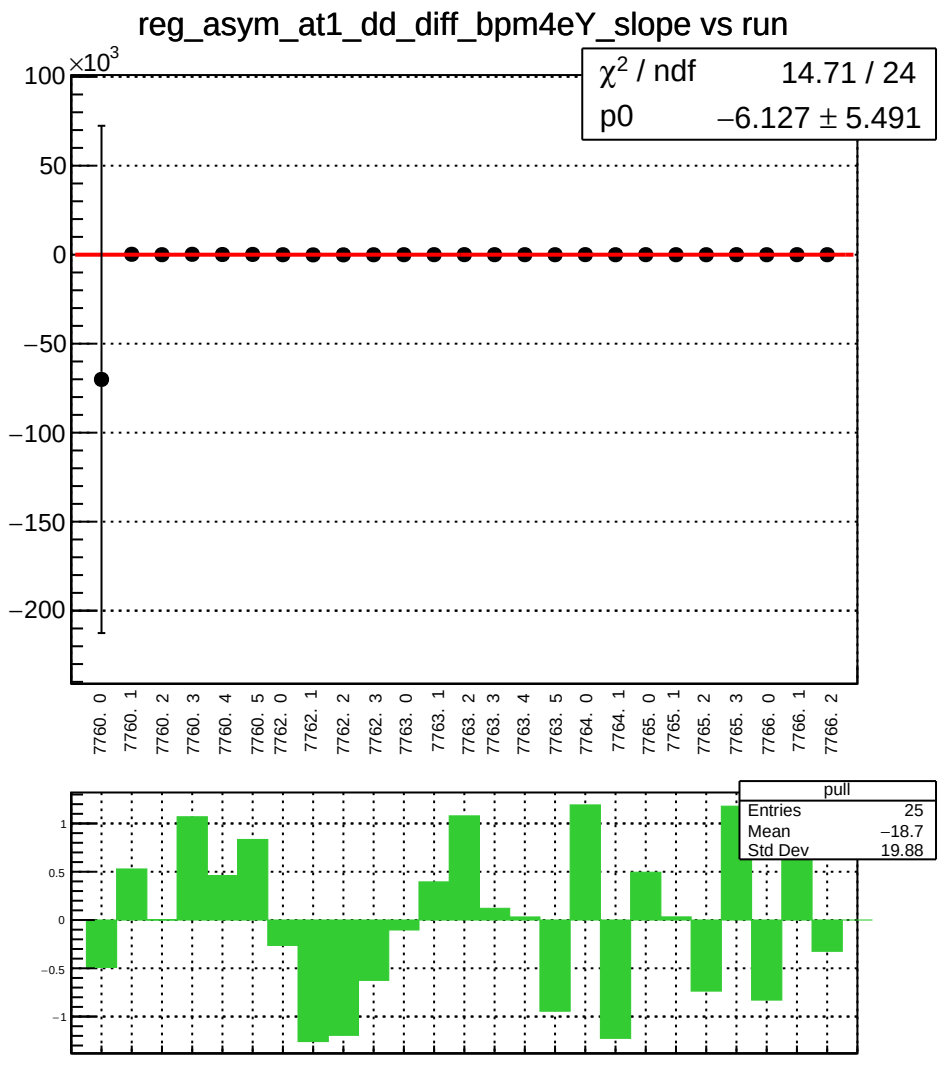

reg_asym_at1_dd_diff_bpm1X_slope vs run
×10^3
χ² / ndf 28.49 / 24
p0 0.35 ± 4.551
0
−50
−100
−150
−200
−250
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 5.39
Std Dev 4.714
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

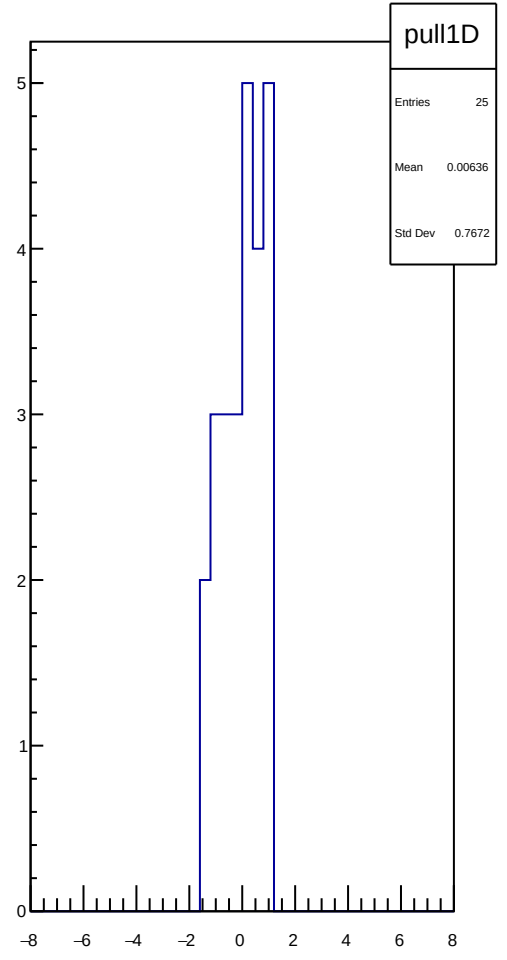

pull1D
Entries 25
Mean −0.07092
Std Dev 1.065
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

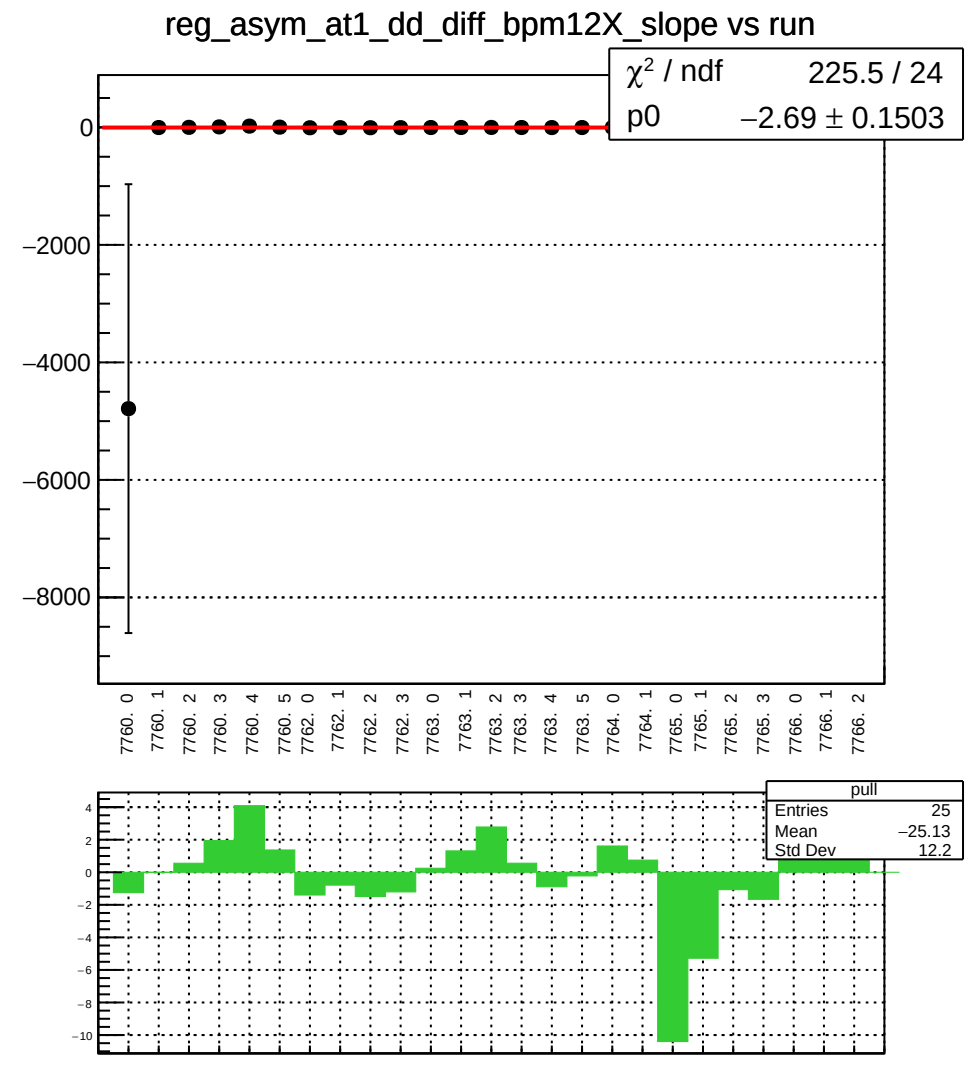

reg_asym_at1_dd_diff_bpm4aY_slope vs run
×10^3
χ² / ndf 13.82 / 24
p0 0.4343 ± 4.876
200
150
100
50
0
−50
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 52.29
Std Dev 61.81
1
0.5
0
−0.5
−1
pull1D
Entries 25
Mean 0.001571
Std Dev 0.7434
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

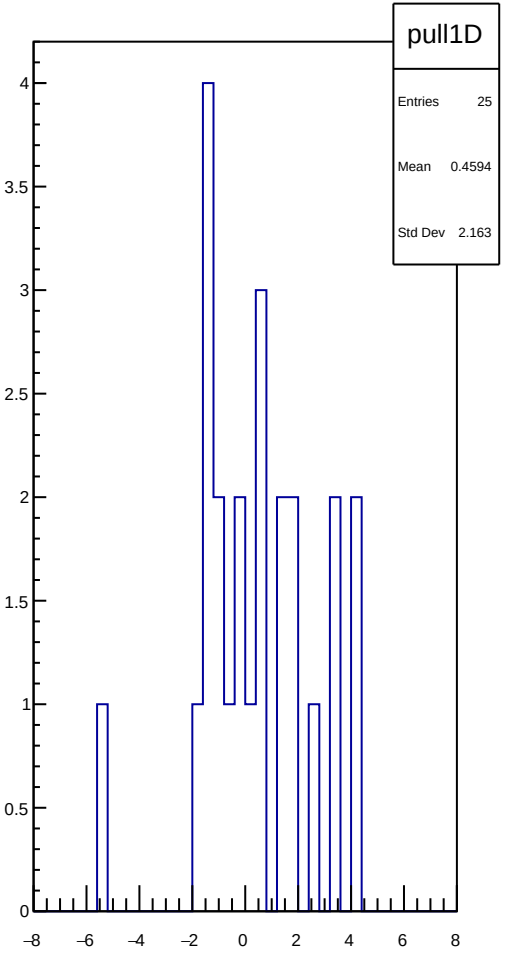

reg_asym_at1_dd_diff_bpm4eX_slope vs run
×10^3
χ^2 / ndf 28.07 / 24
p0 16.98 ± 4.212
200
150
100
50
0
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 5.288
Std Dev 4.233
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

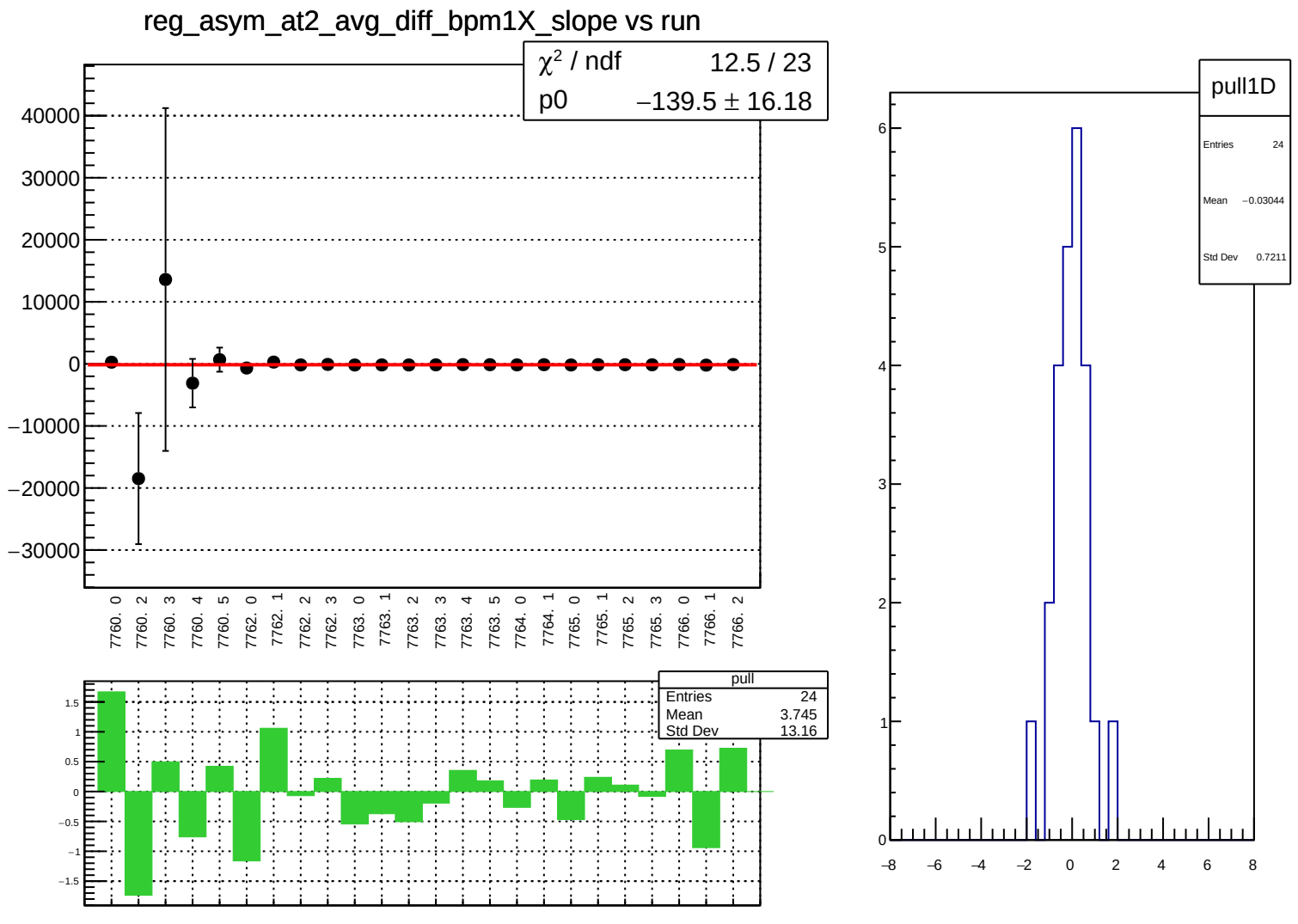

pull1D
Entries 25
Mean 0.07791
Std Dev 1.057
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

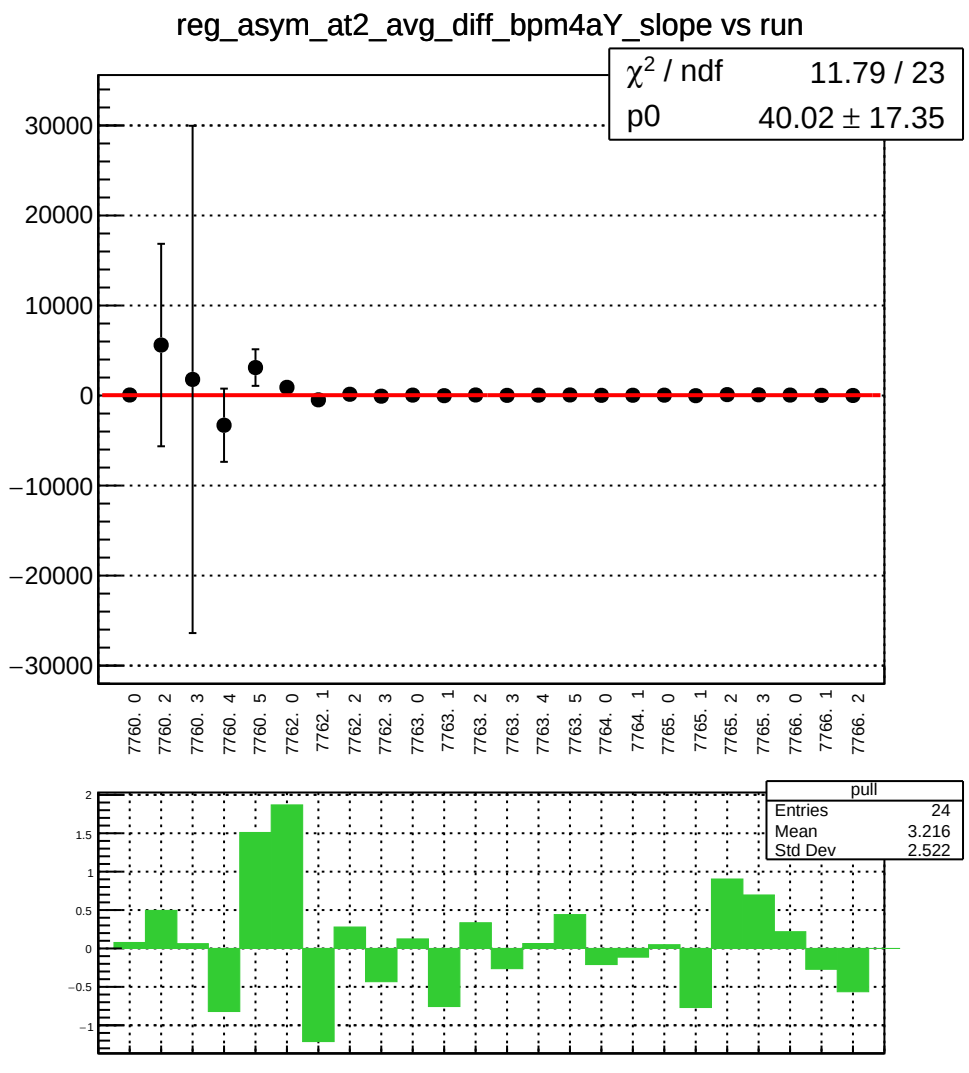

reg_asym_at1_dd_diff_bpm4eY_slope vs run
×10^3
χ² / ndf 14.71 / 24
p0 −6.127 ± 5.491
100
50
0
−50
−100
−150
−200
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −18.7
Std Dev 19.88
1
0.5
0
−0.5
−1

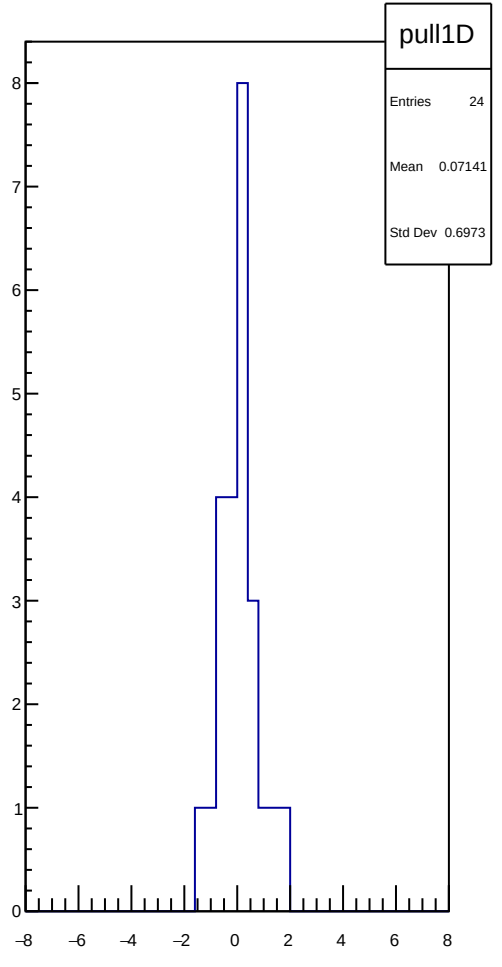

pull1D
Entries 25
Mean 0.00636
Std Dev 0.7672
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

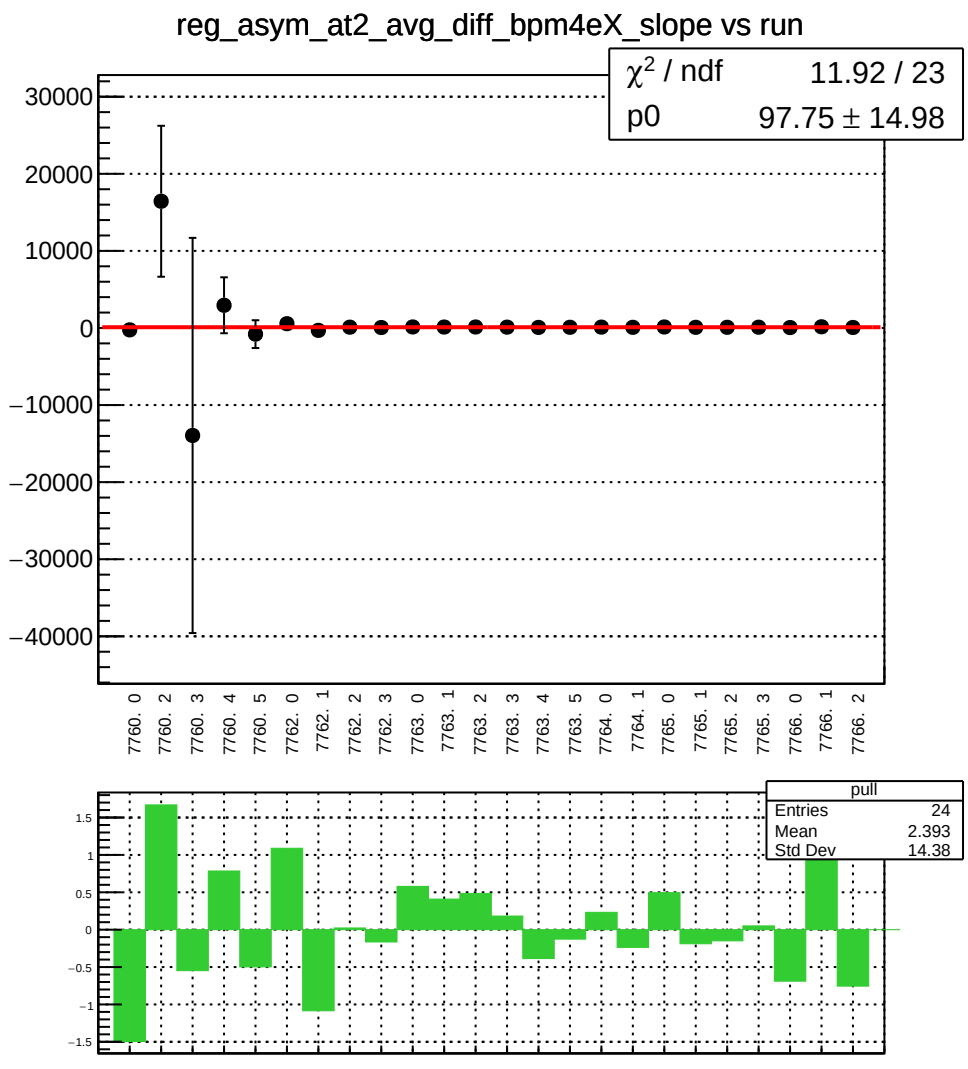

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 225.5 / 24
p0 −2.69 ± 0.1503
0
−2000
−4000
−6000
−8000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −25.13
Std Dev 12.2
4
2
0
−2
−4
−6
−8
−10

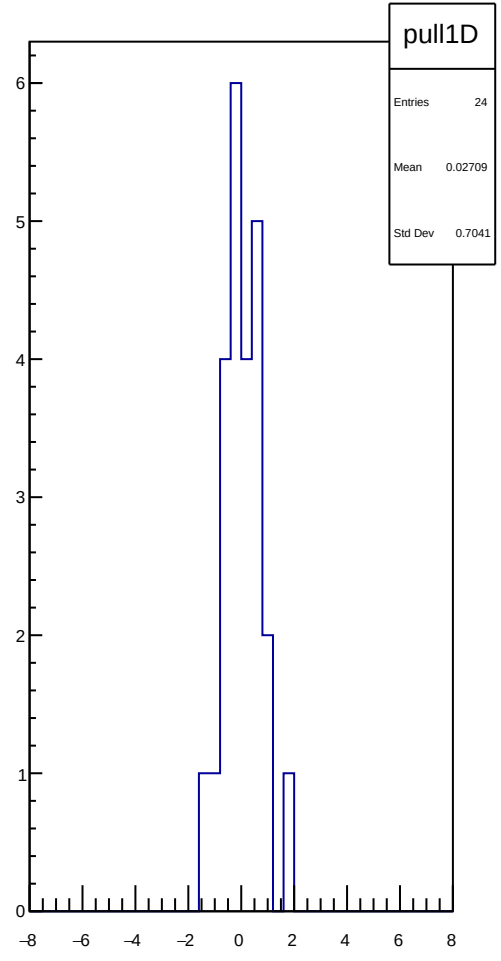

pull1D
Entries 25
Mean 0.4594
Std Dev 2.163
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

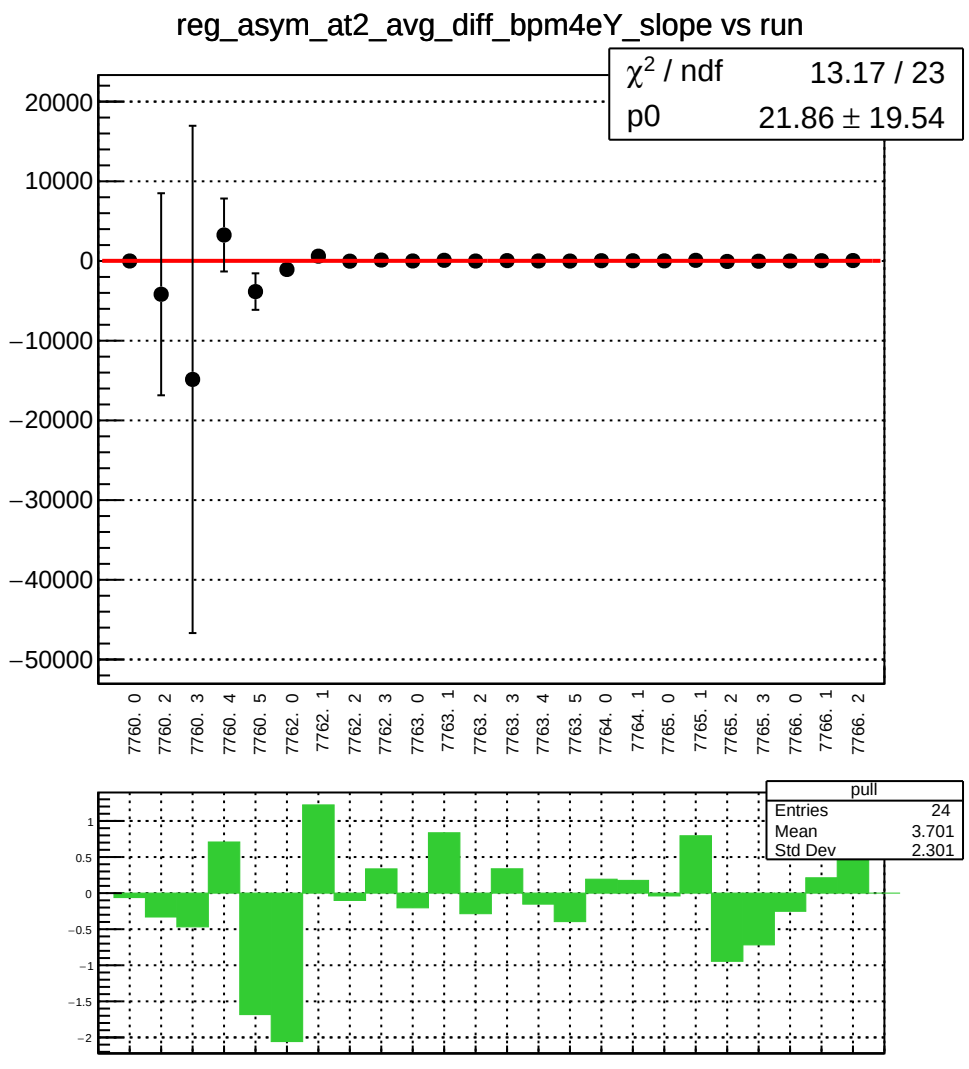

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 12.5 / 23
p0 −139.5 ± 16.18
40000
30000
20000
10000
0
−10000
−20000
−30000
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 24
Mean 3.745
Std Dev 13.16
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.03044
Std Dev 0.7211
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

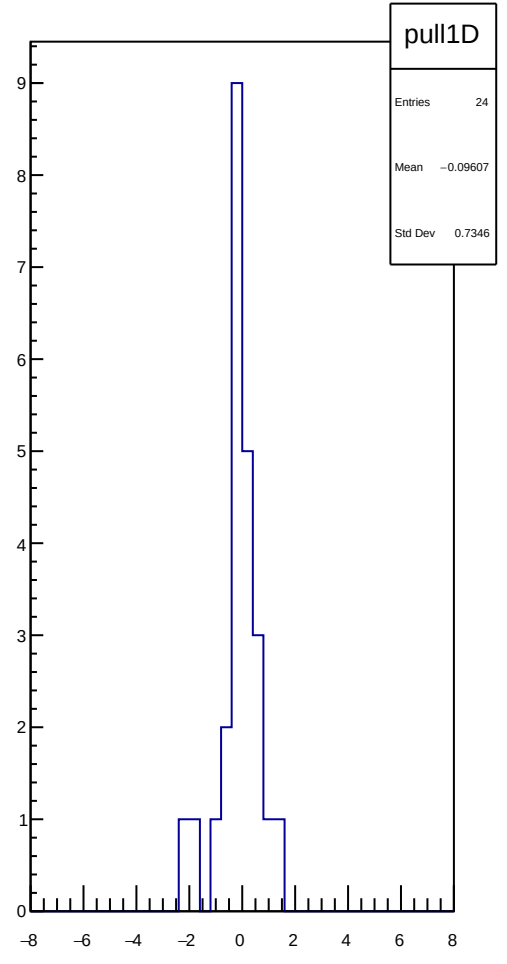

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.79 / 23
p0 40.02 ± 17.35
30000
20000
10000
0
−10000
−20000
−30000
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 24
Mean 3.216
Std Dev 2.522
2
1.5
1
0.5
0
−0.5
−1

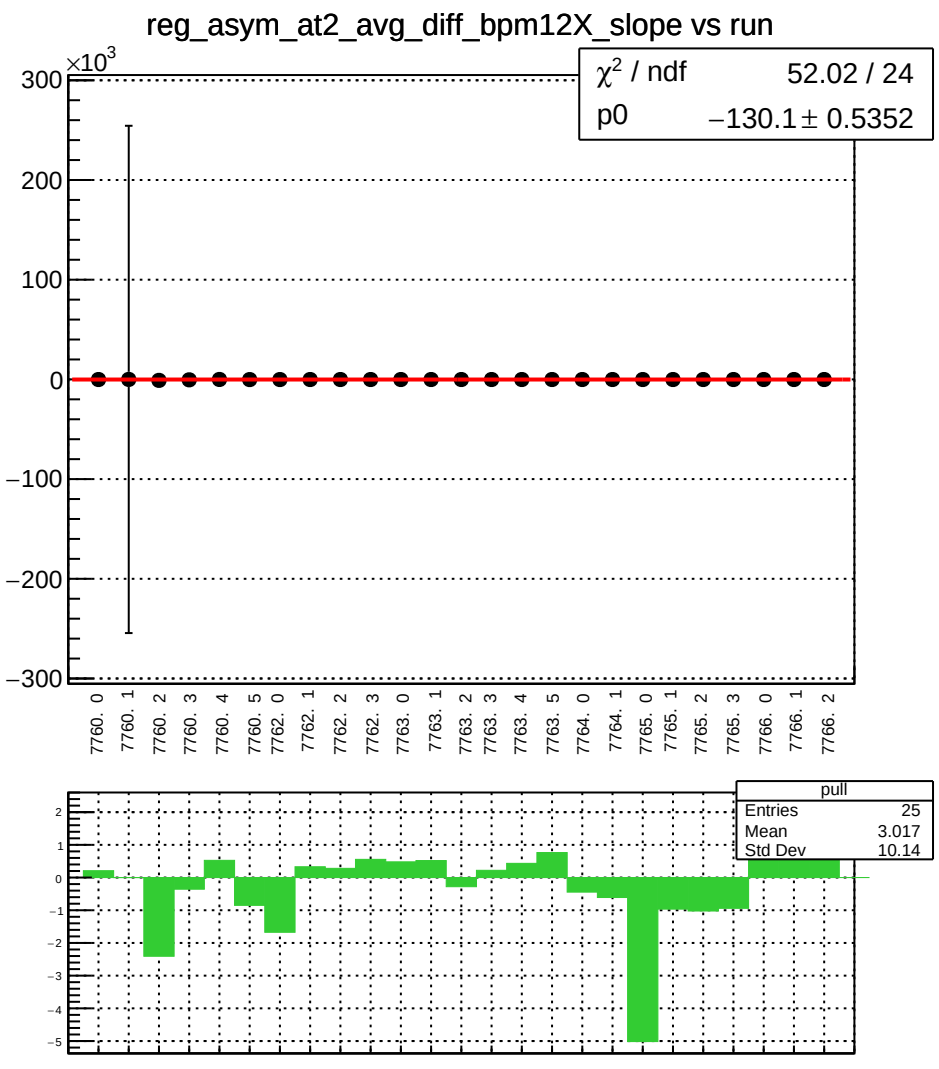

pull1D
Entries 24
Mean 0.07141
Std Dev 0.6973
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

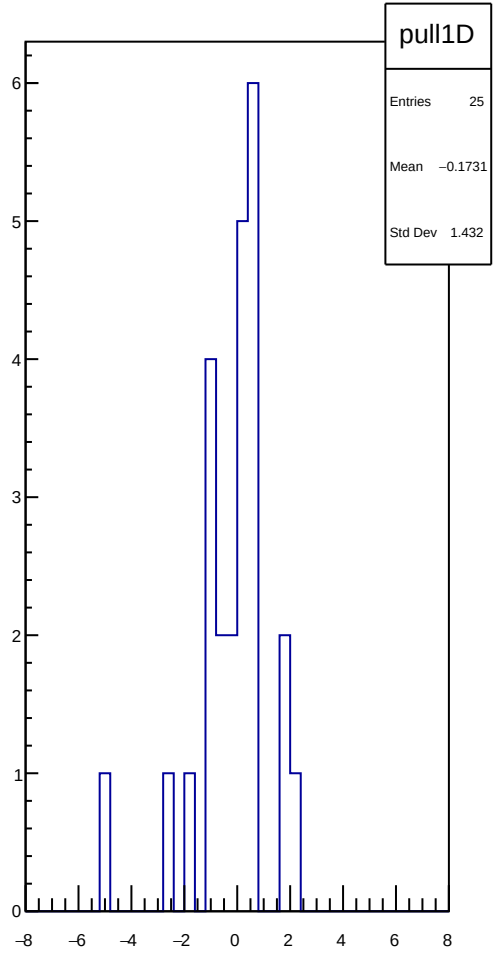

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 11.92 / 23
p0 97.75 ± 14.98
30000
20000
10000
0
−10000
−20000
−30000
−40000
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 24
Mean 2.393
Std Dev 14.38
1.5
1
0.5
0
−0.5
−1
−1.5

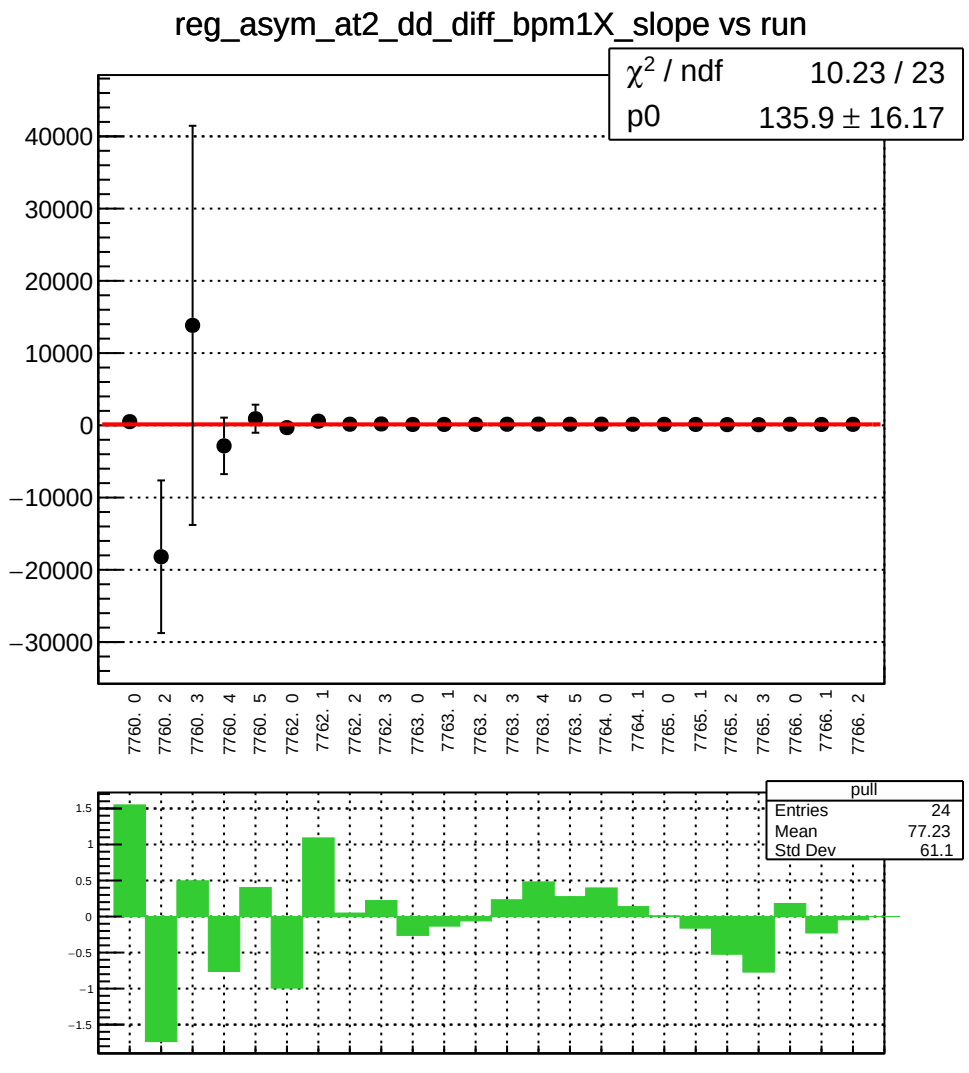

pull1D
Entries 24
Mean 0.02709
Std Dev 0.7041
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

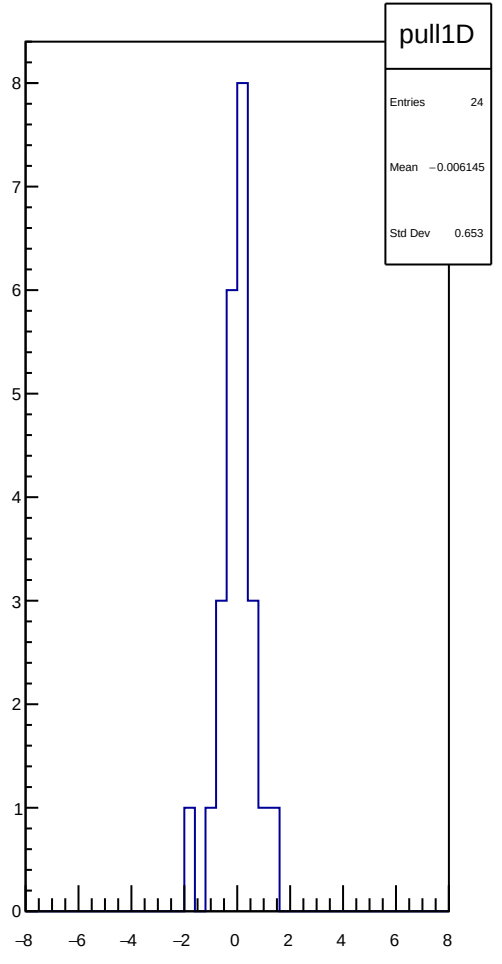

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 13.17 / 23
p0 21.86 ± 19.54
20000
10000
0
−10000
−20000
−30000
−40000
−50000
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 24
Mean 3.701
Std Dev 2.301
1
0.5
0
−0.5
−1
−1.5
−2

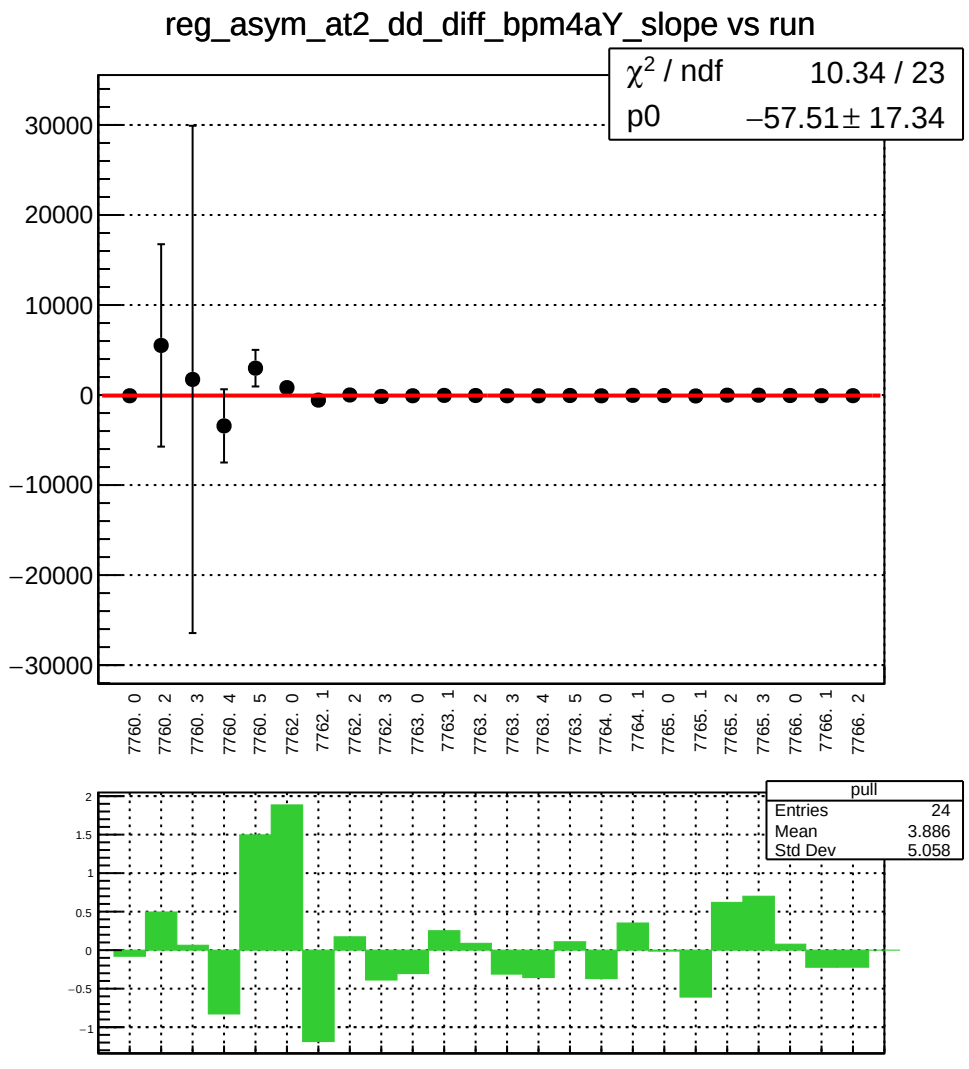

pull1D
Entries 24
Mean −0.09607
Std Dev 0.7346
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

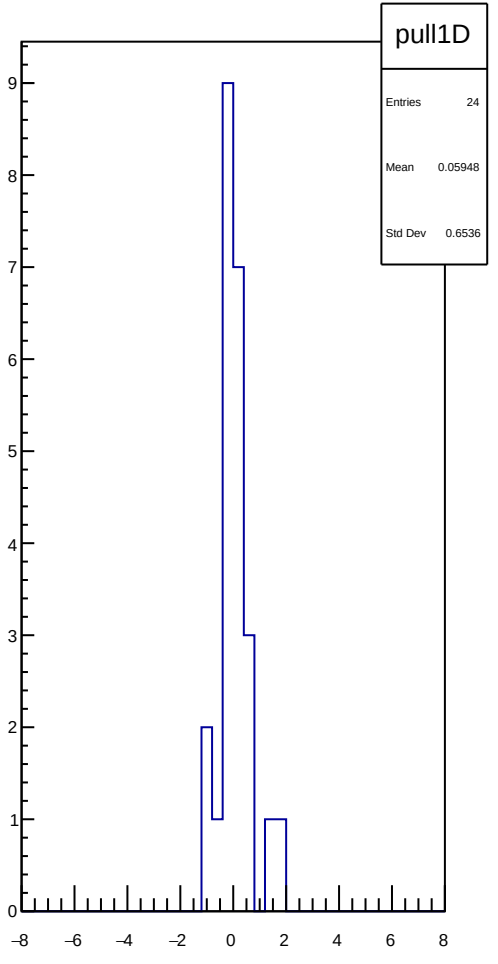

reg_asym_at2_avg_diff_bpm12X_slope vs run
×10^3
χ² / ndf 52.02 / 24
p0 −130.1 ± 0.5352
300
200
100
0
−100
−200
−300
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 3.017
Std Dev 10.14
2
1
0
−1
−2
−3
−4
−5

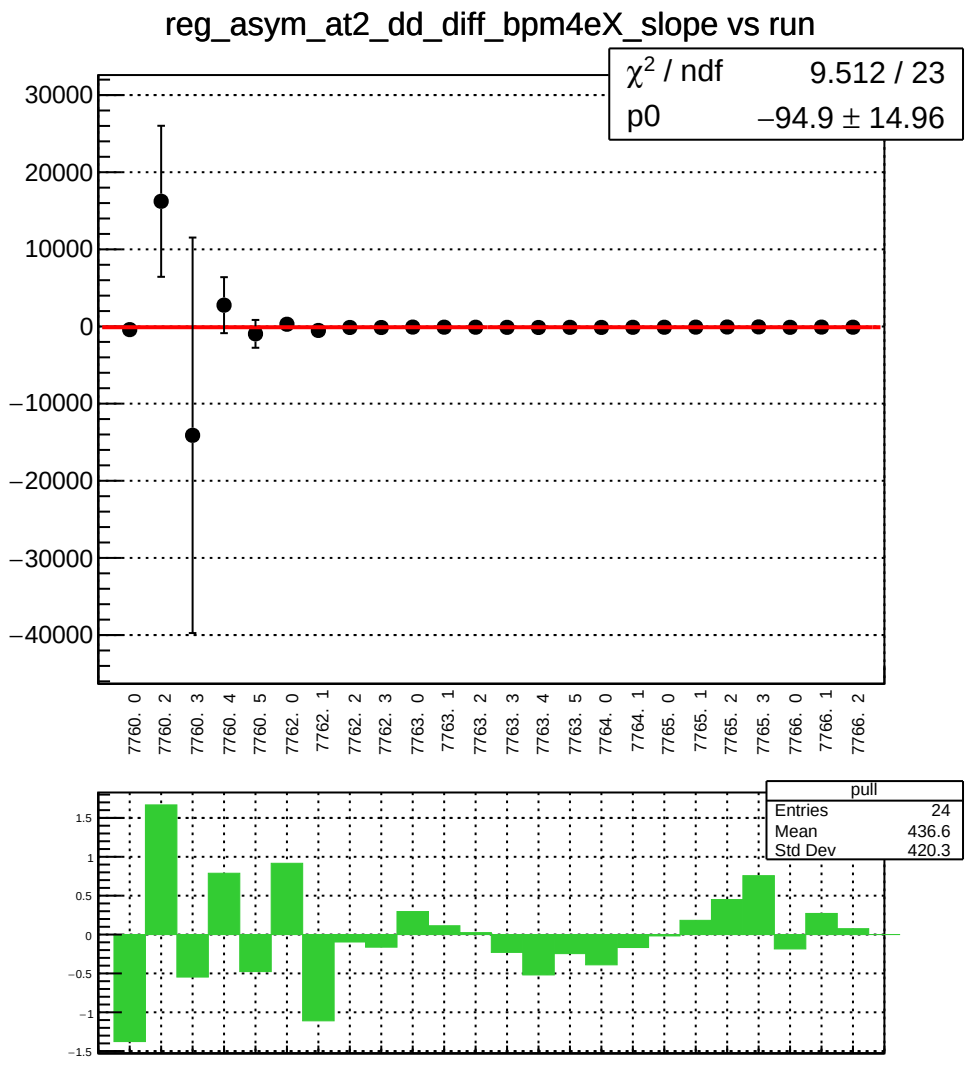

pull1D
Entries 25
Mean −0.1731
Std Dev 1.432
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

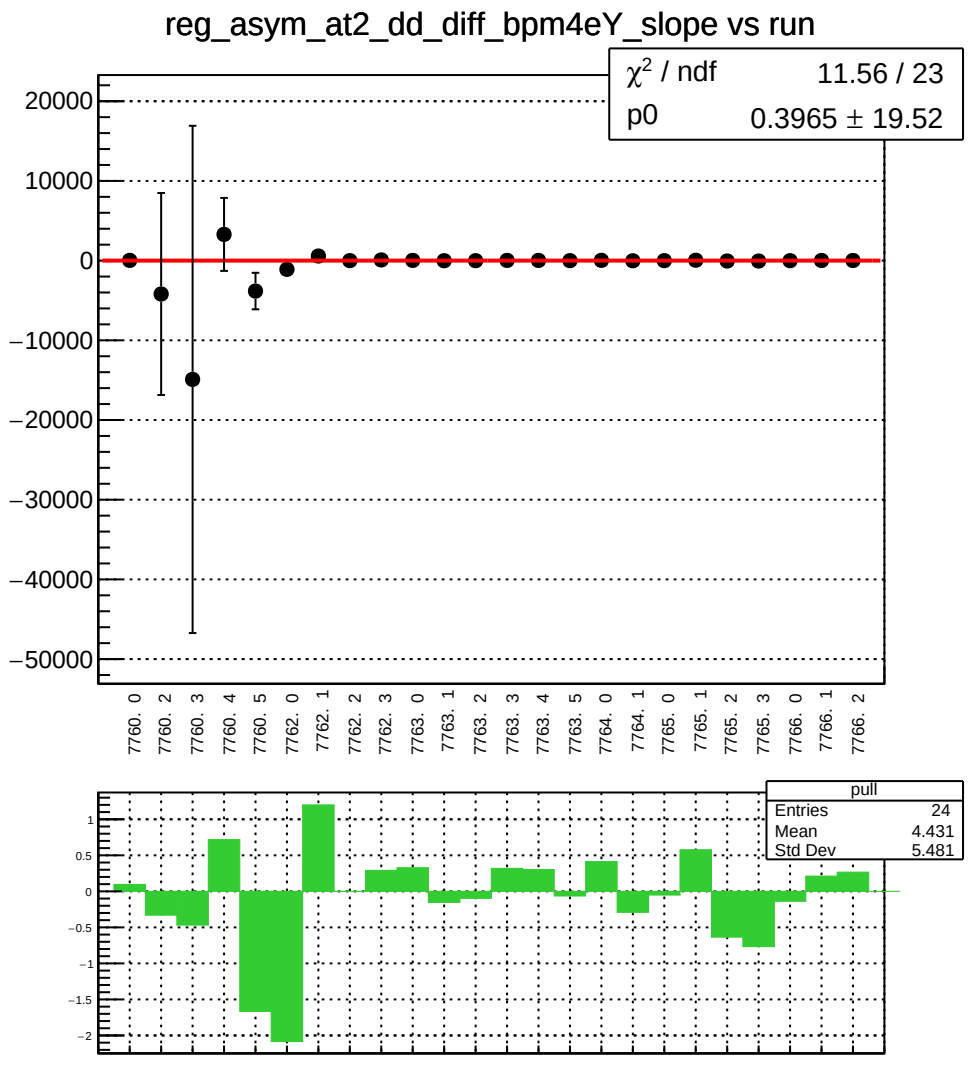

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 10.23 / 23
p0 135.9 ± 16.17
40000
30000
20000
10000
0
−10000
−20000
−30000
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 24
Mean 77.23
Std Dev 61.1
1.5
1
0.5
0
−0.5
−1
−1.5

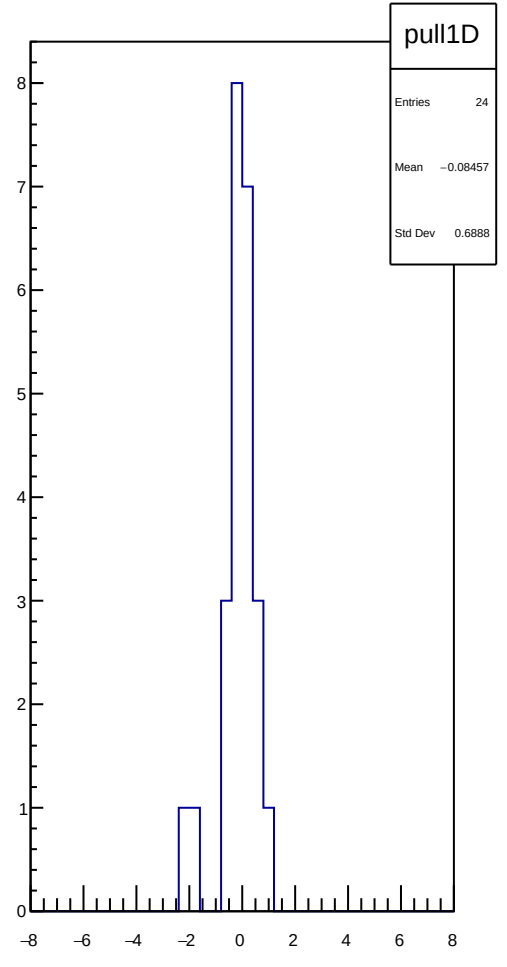

pull1D
Entries 24
Mean −0.006145
Std Dev 0.653
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

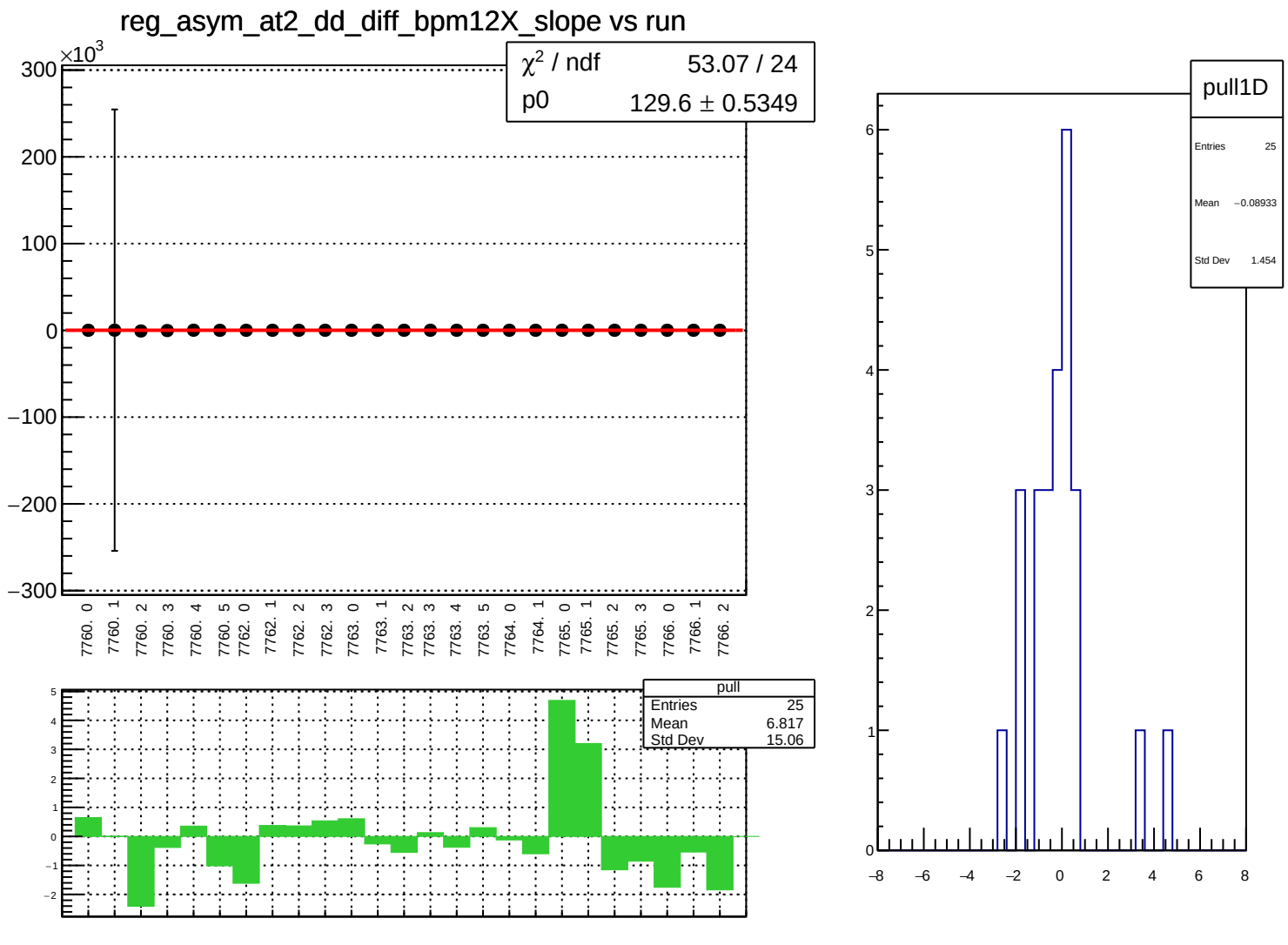

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.34 / 23
p0 −57.51 ± 17.34
30000
20000
10000
0
−10000
−20000
−30000
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 24
Mean 3.886
Std Dev 5.058
2
1.5
1
0.5
0
−0.5
−1

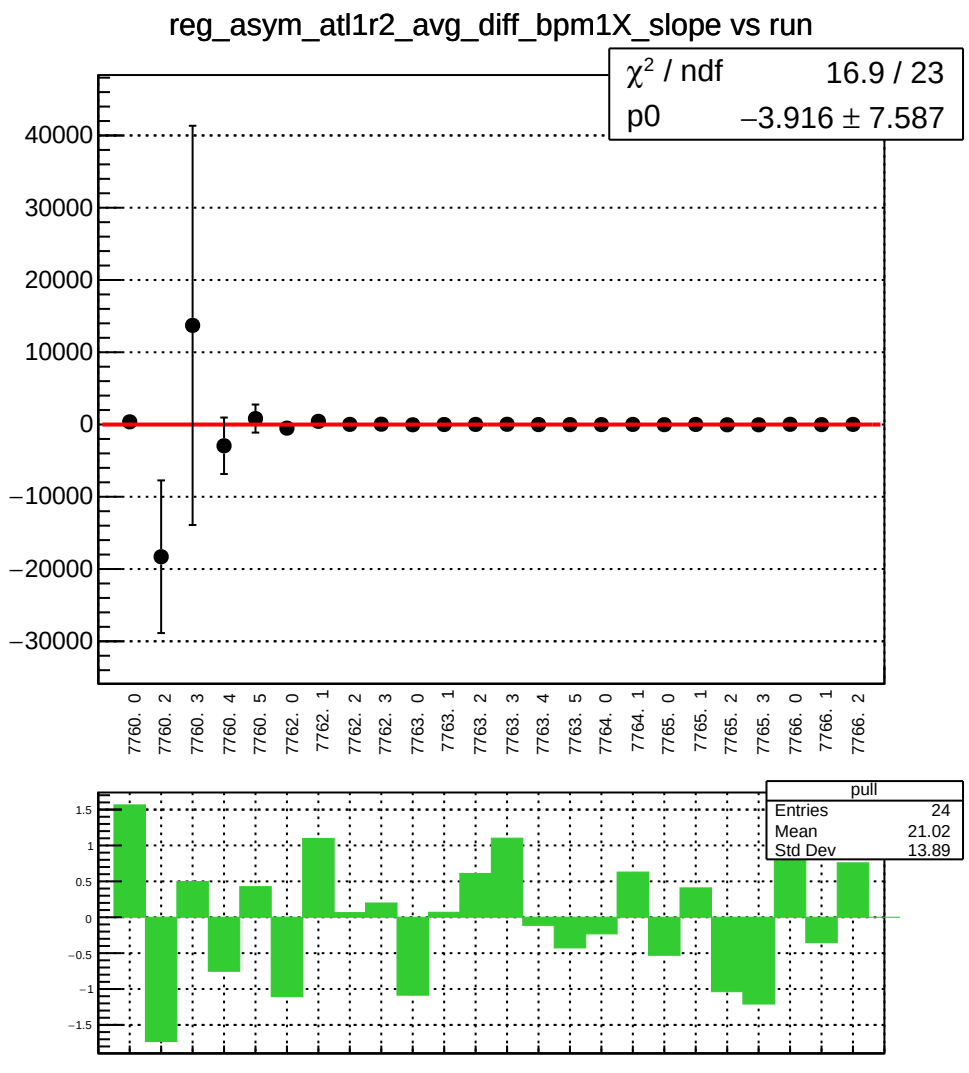

pull1D
Entries 24
Mean 0.05948
Std Dev 0.6536
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

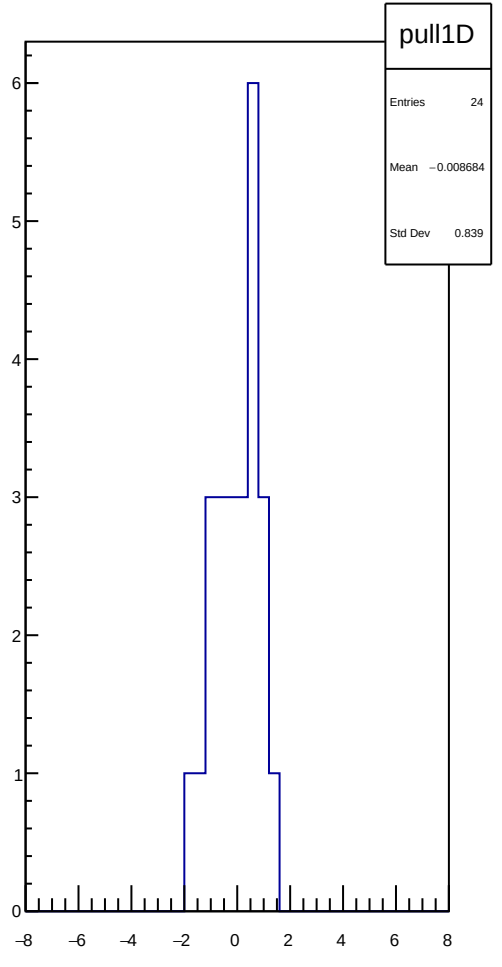

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.512 / 23
p0 −94.9 ± 14.96
30000
20000
10000
0
−10000
−20000
−30000
−40000
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 24
Mean 436.6
Std Dev 420.3
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.0009659
Std Dev 0.6295
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

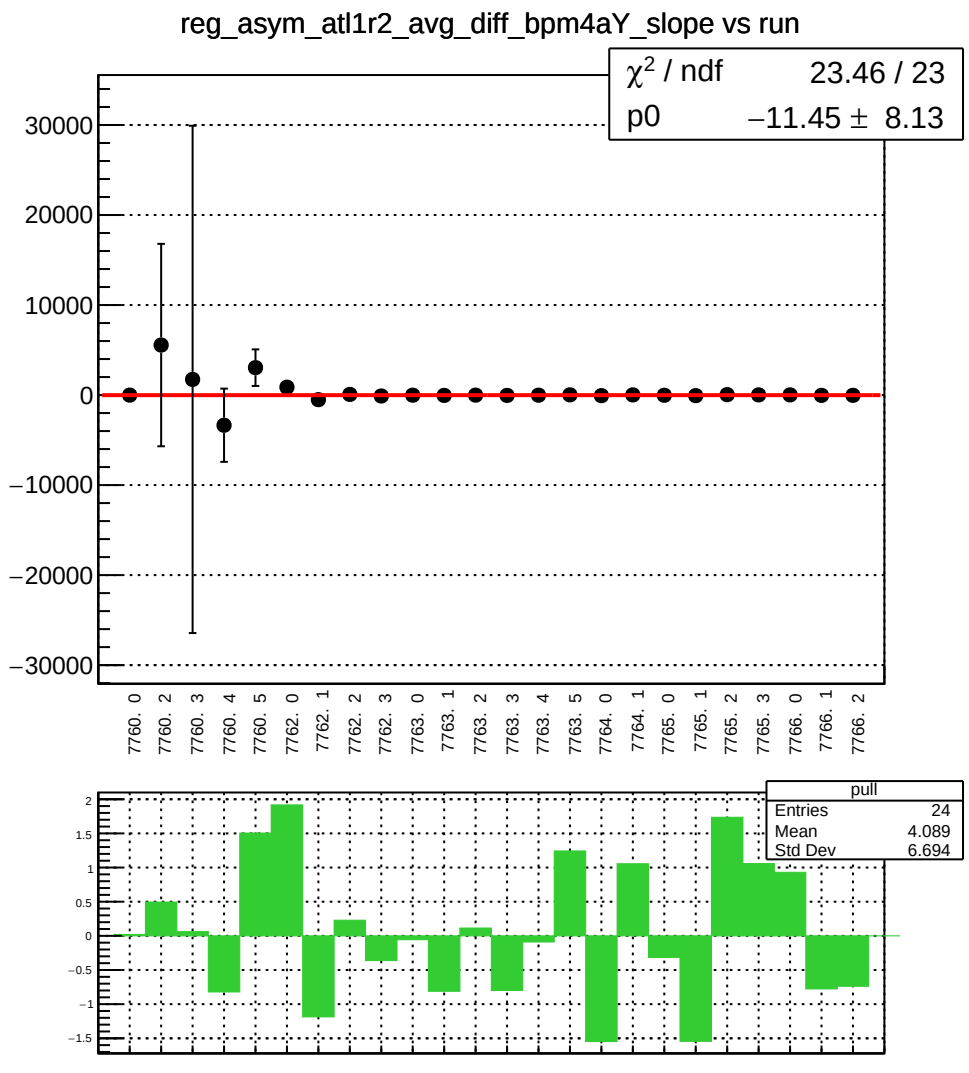

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.56 / 23
p0 0.3965 ± 19.52
20000
10000
0
−10000
−20000
−30000
−40000
−50000
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 24
Mean 4.431
Std Dev 5.481
1
0.5
0
−0.5
−1
−1.5
−2

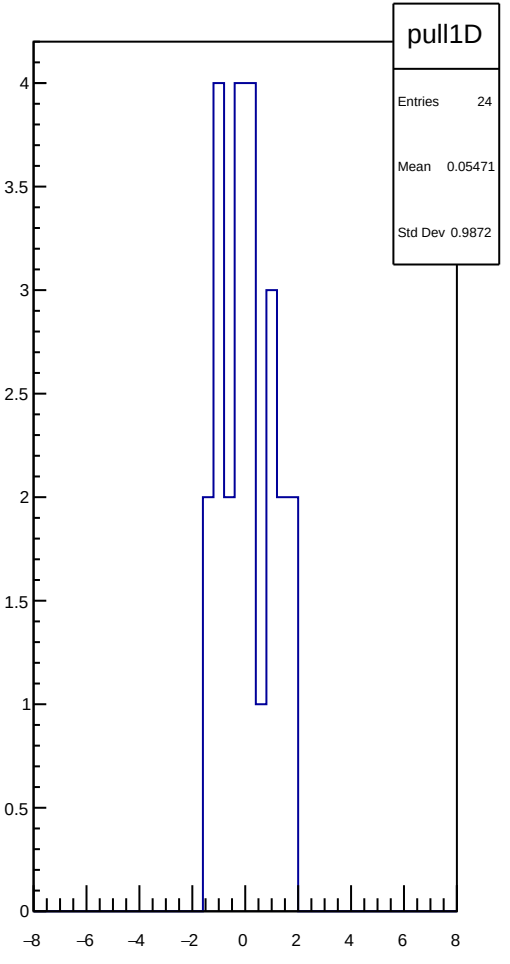

pull1D
Entries 24
Mean −0.08457
Std Dev 0.6888
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

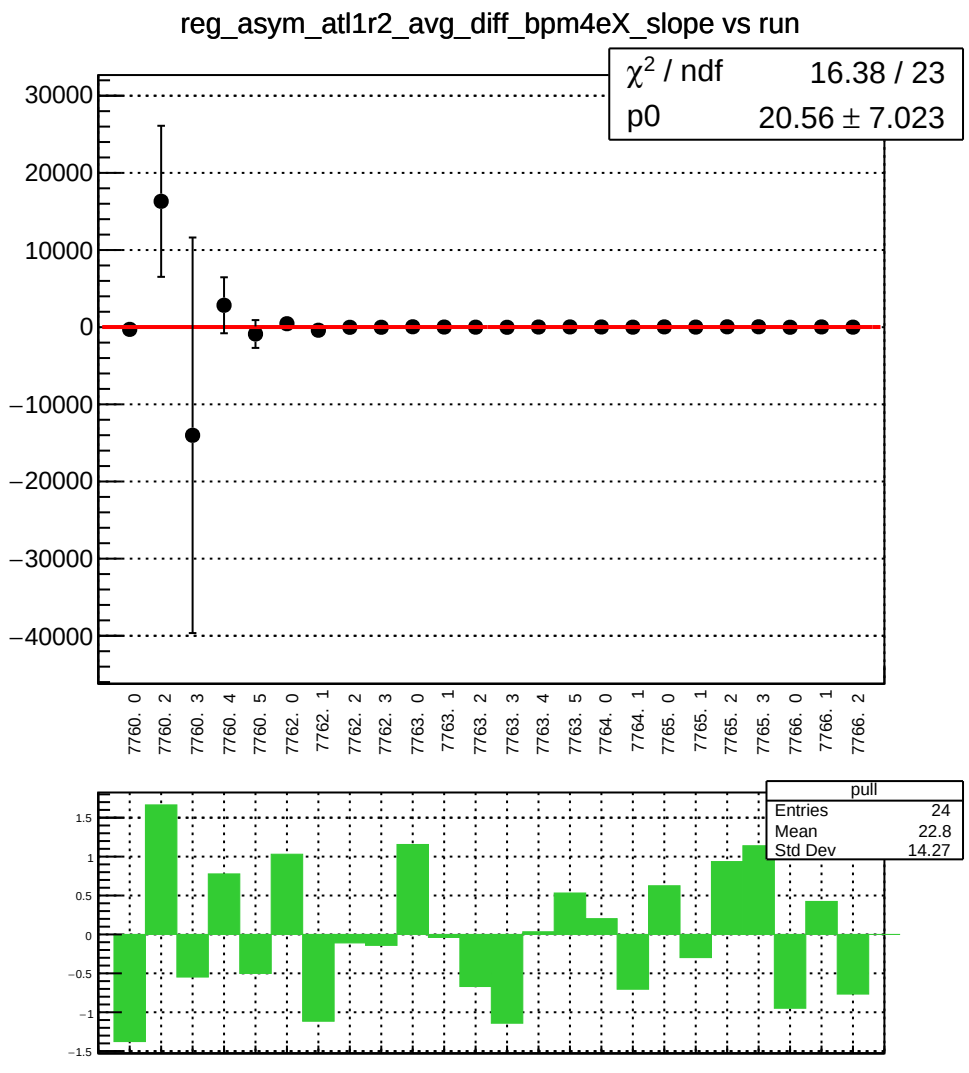

reg_asym_at2_dd_diff_bpm12X_slope vs run
×10^3
χ² / ndf 53.07 / 24
p0 129.6 ± 0.5349
300
200
100
0
−100
−200
−300
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 6.817
Std Dev 15.06
pull1D
Entries 25
Mean −0.08933
Std Dev 1.454

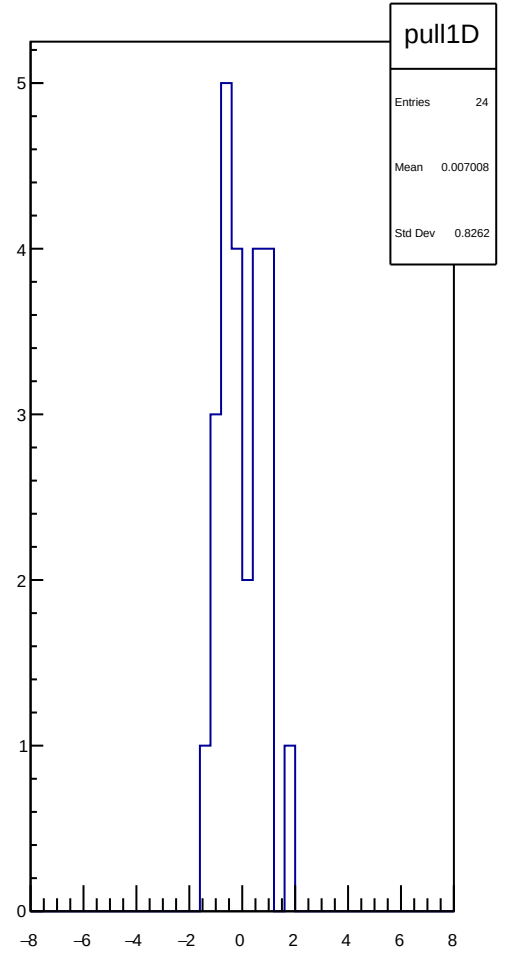

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 16.9 / 23
p0 −3.916 ± 7.587
40000
30000
20000
10000
0
−10000
−20000
−30000
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 24
Mean 21.02
Std Dev 13.89
1.5
1
0.5
0
−0.5
−1
−1.5

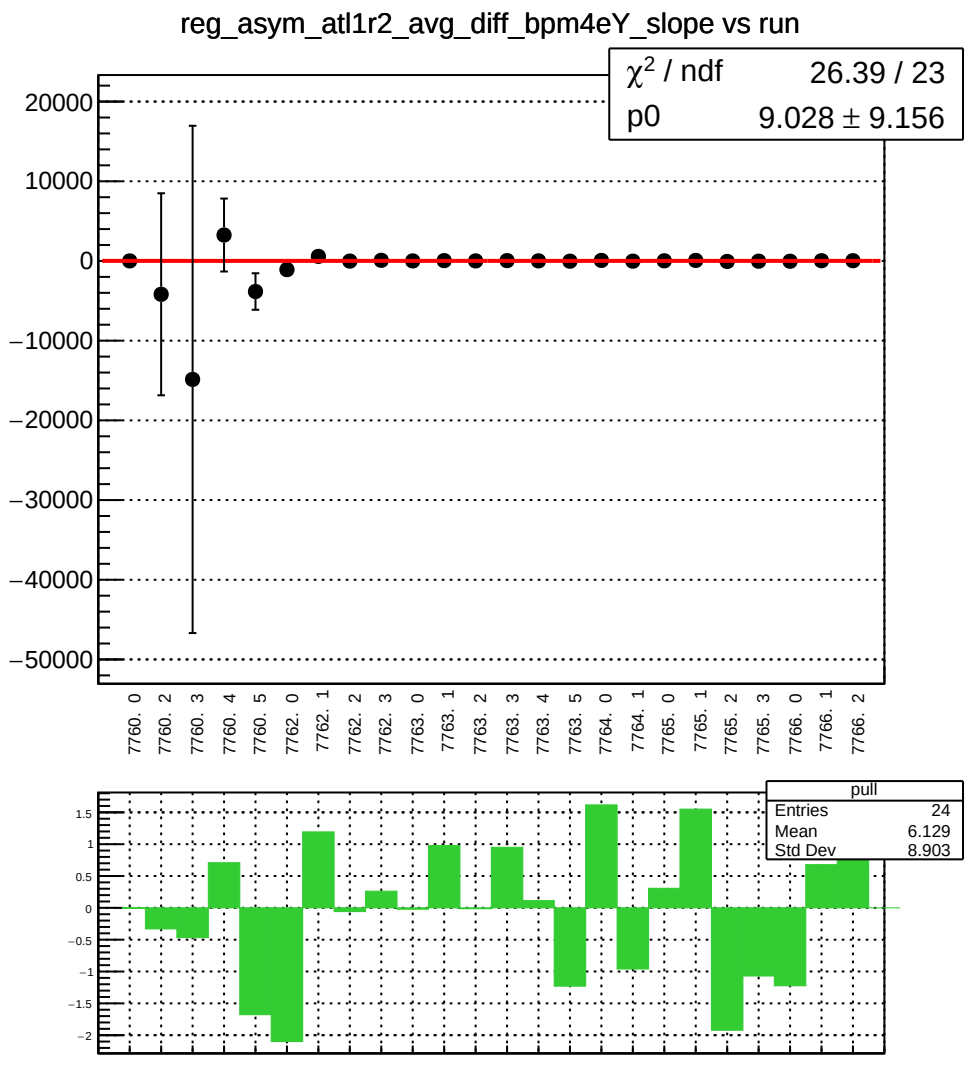

pull1D
Entries 24
Mean −0.008684
Std Dev 0.839
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

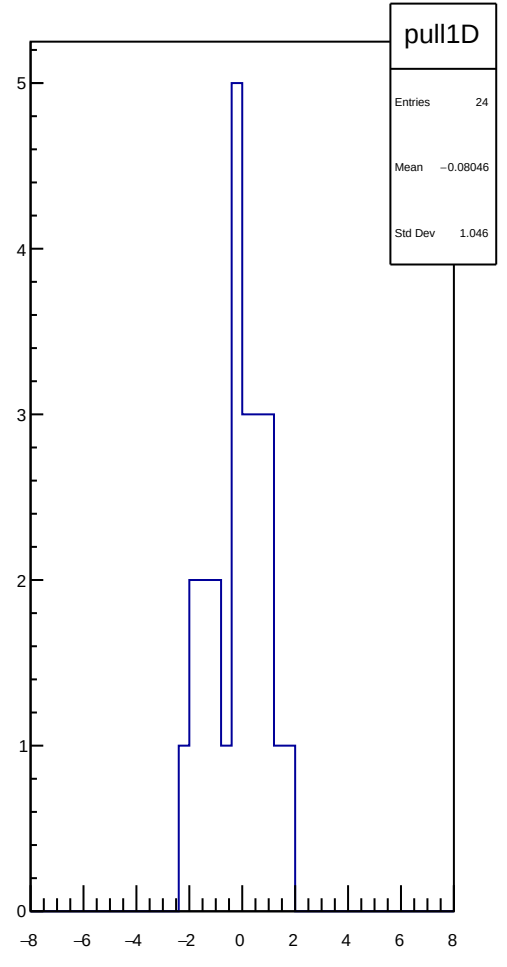

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 23.46 / 23
p0 −11.45 ± 8.13
30000
20000
10000
0
−10000
−20000
−30000
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 24
Mean 4.089
Std Dev 6.694
2
1.5
1
0.5
0
−0.5
−1
−1.5

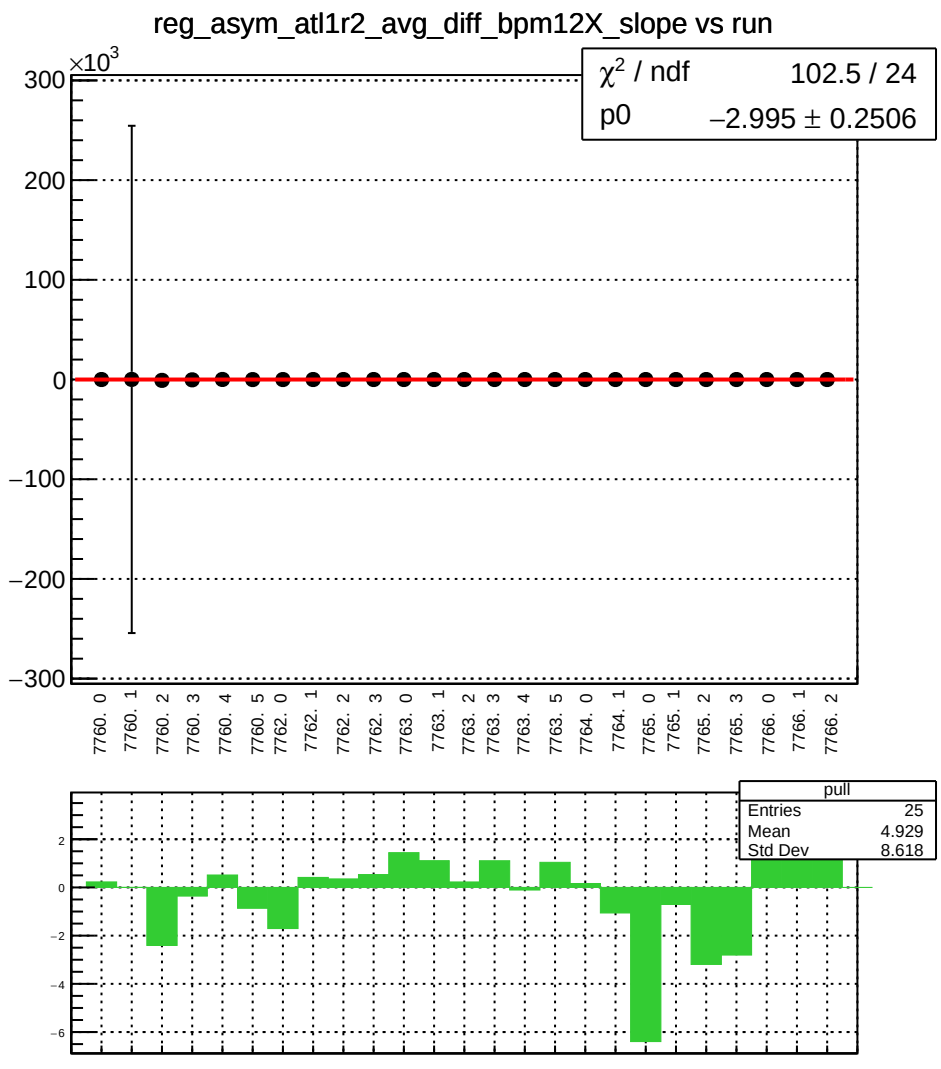

pull1D
Entries 24
Mean 0.05471
Std Dev 0.9872
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

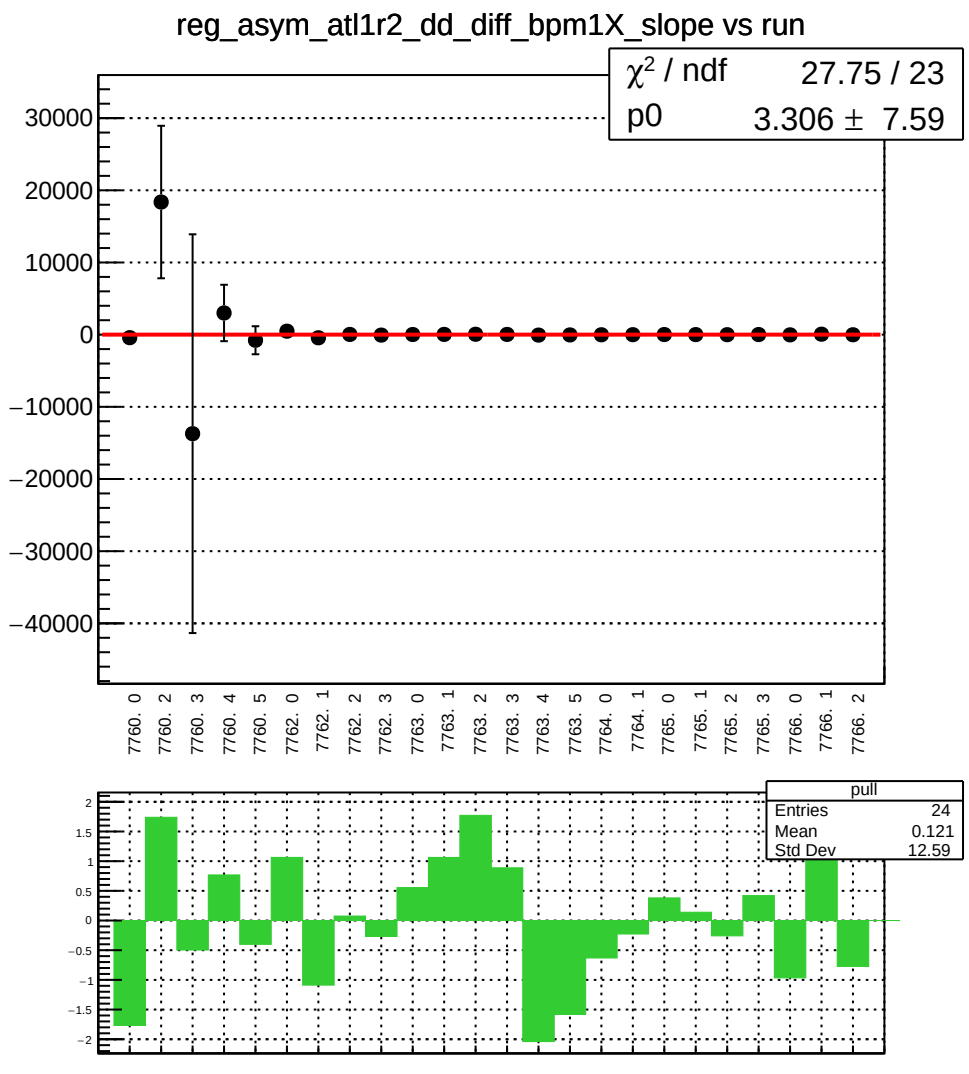

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 16.38 / 23
p0 20.56 ± 7.023
30000
20000
10000
0
−10000
−20000
−30000
−40000
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 24
Mean 22.8
Std Dev 14.27
1.5
1
0.5
0
−0.5
−1
−1.5

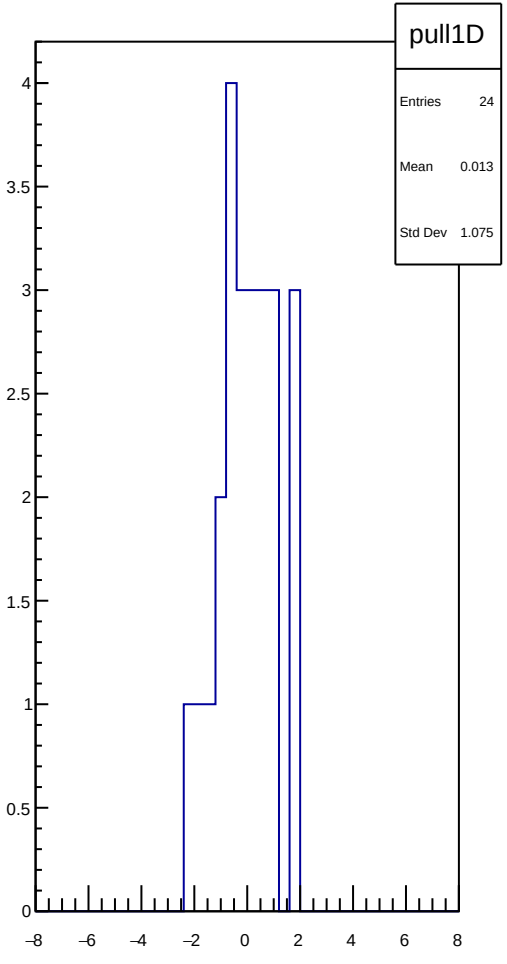

pull1D
Entries 24
Mean 0.007008
Std Dev 0.8262
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

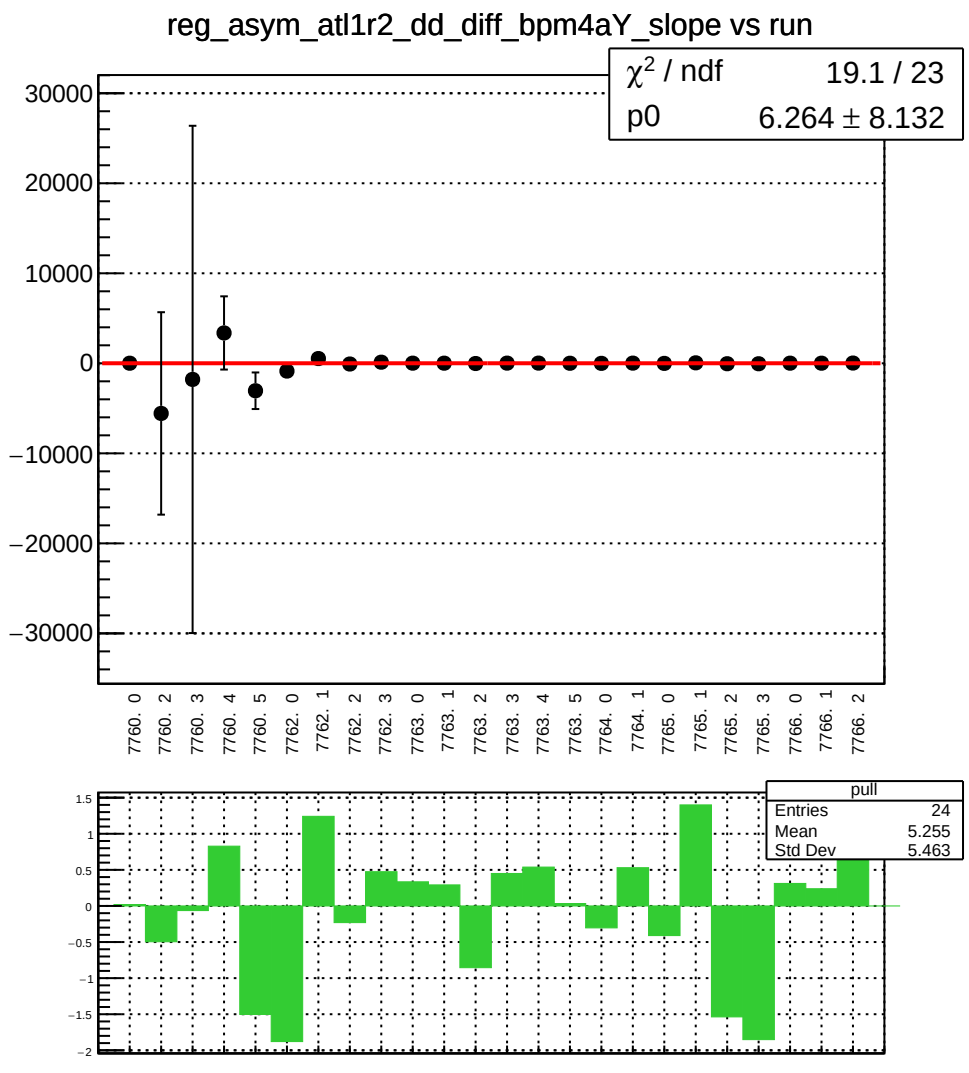

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 26.39 / 23
p0 9.028 ± 9.156
20000
10000
0
−10000
−20000
−30000
−40000
−50000
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 24
Mean 6.129
Std Dev 8.903
1.5
1
0.5
0
−0.5
−1
−1.5
−2

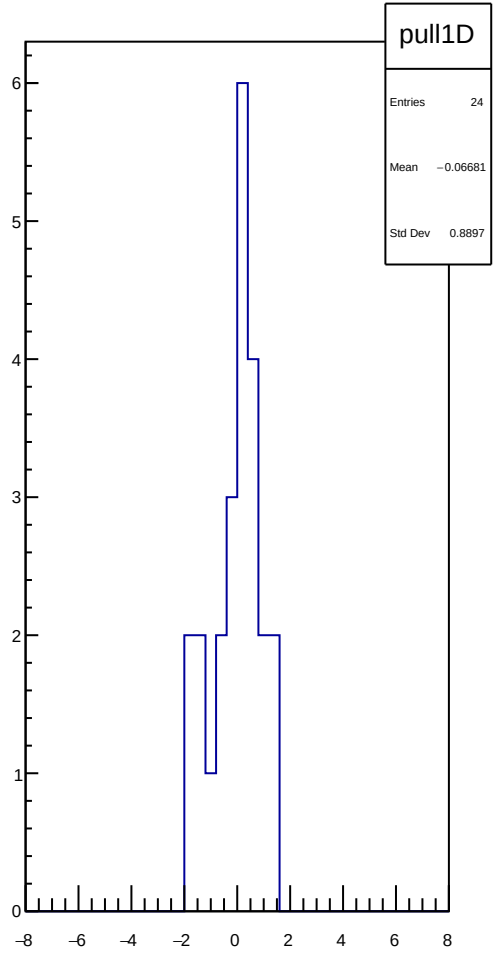

pull1D
Entries 24
Mean −0.08046
Std Dev 1.046
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

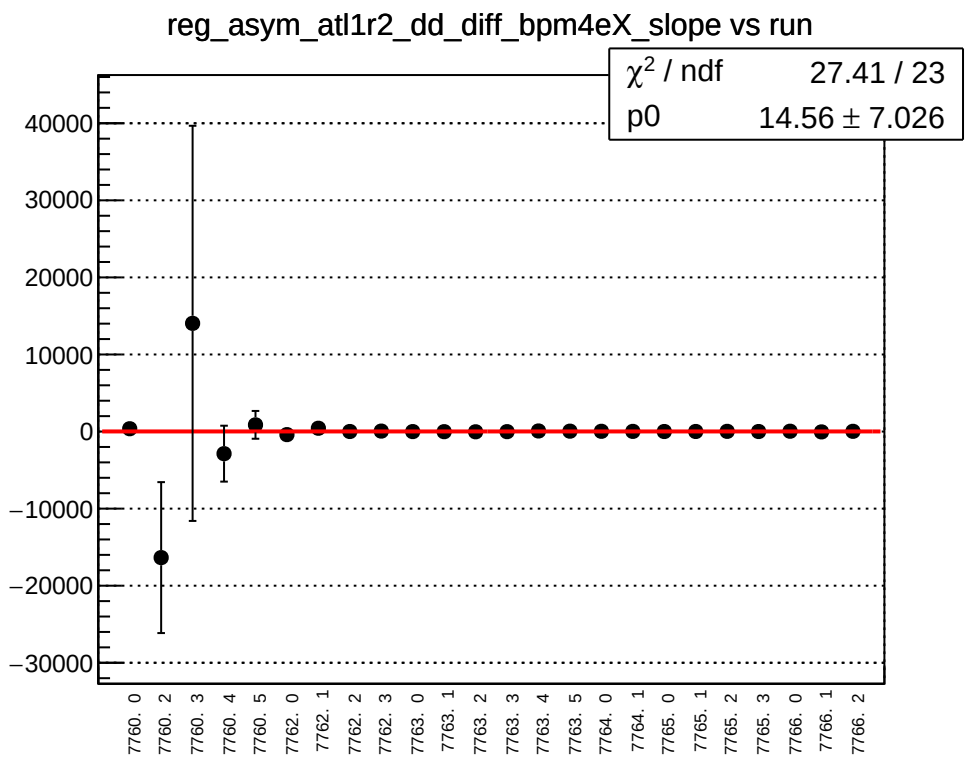

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
×10^3
χ² / ndf 102.5 / 24
p0 −2.995 ± 0.2506
300
200
100
0
−100
−200
−300
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 4.929
Std Dev 8.618
2
0
−2
−4
−6
pull1D
Entries 25
Mean −0.1505
Std Dev 2.019
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

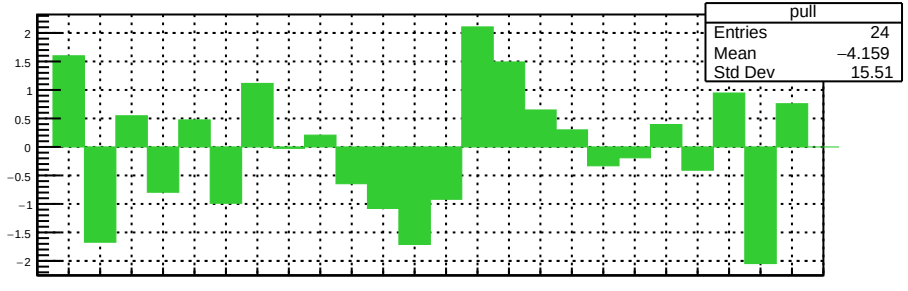

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 27.75 / 23
p0 3.306 ± 7.59
30000
20000
10000
0
−10000
−20000
−30000
−40000
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 24
Mean 0.121
Std Dev 12.59
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

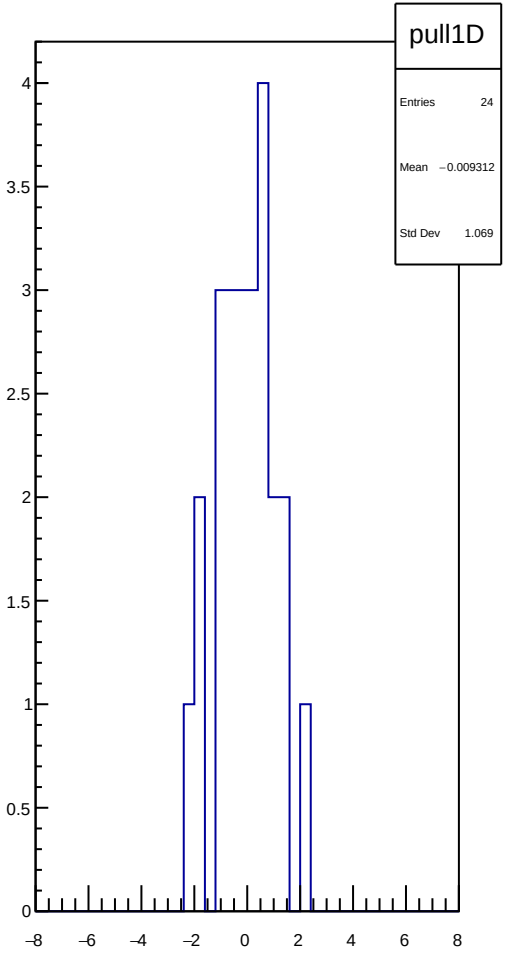

pull1D
Entries 24
Mean 0.013
Std Dev 1.075
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

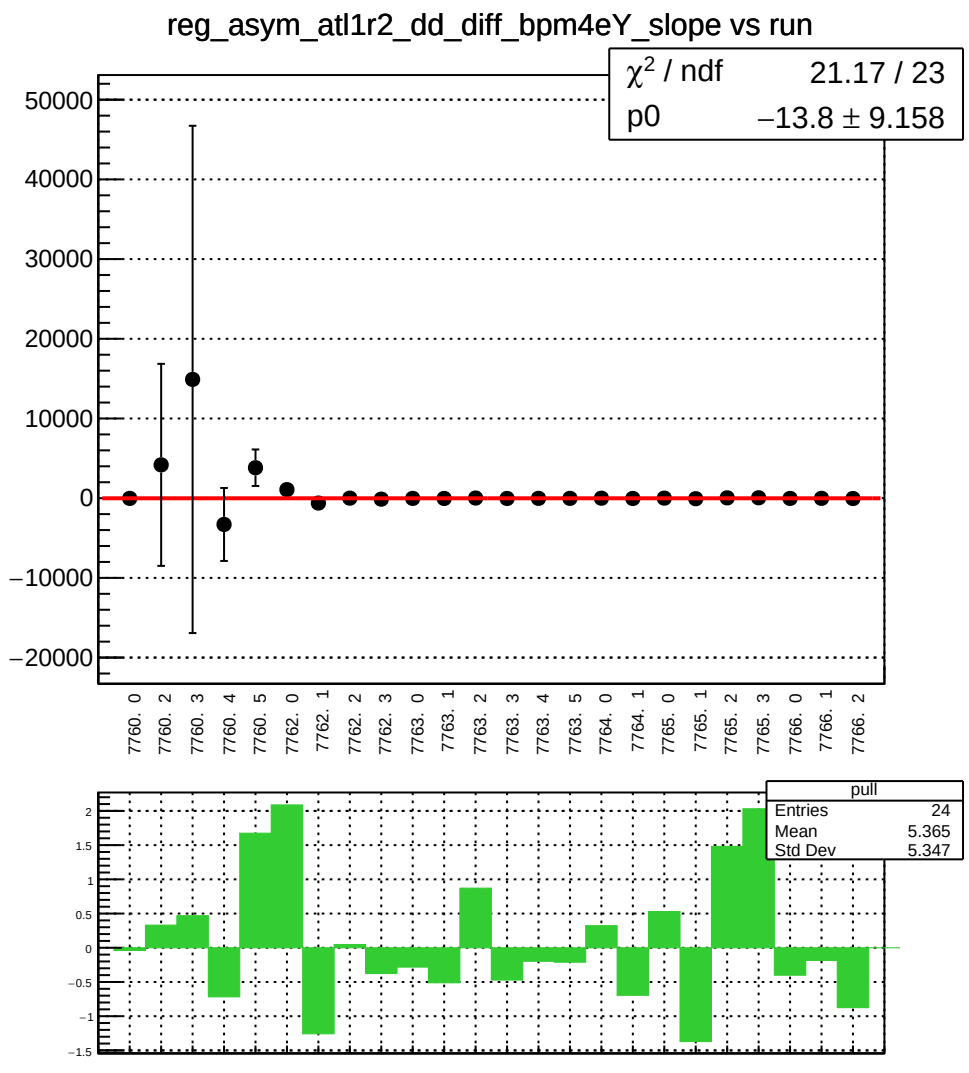

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 19.1 / 23
p0 6.264 ± 8.132
30000
20000
10000
0
−10000
−20000
−30000
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 24
Mean 5.255
Std Dev 5.463
1.5
1
0.5
0
−0.5
−1
−1.5
−2

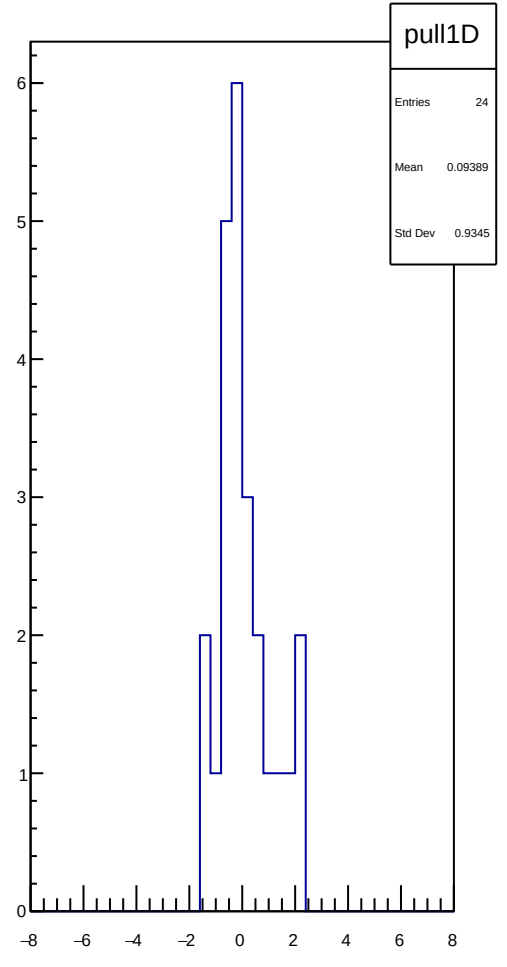

pull1D
Entries 24
Mean −0.06681
Std Dev 0.8897
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

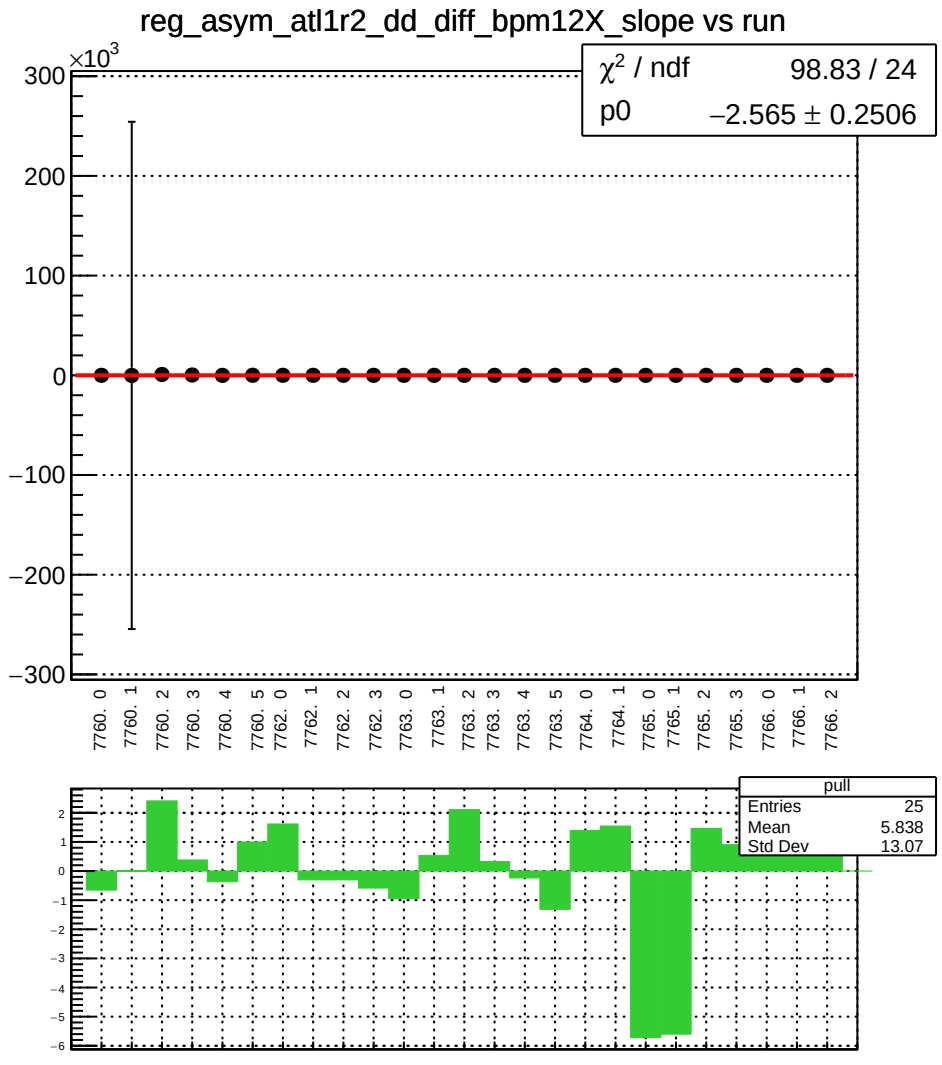

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 27.41 / 23
p0 14.56 ± 7.026
40000
30000
20000
10000
0
−10000
−20000
−30000
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2

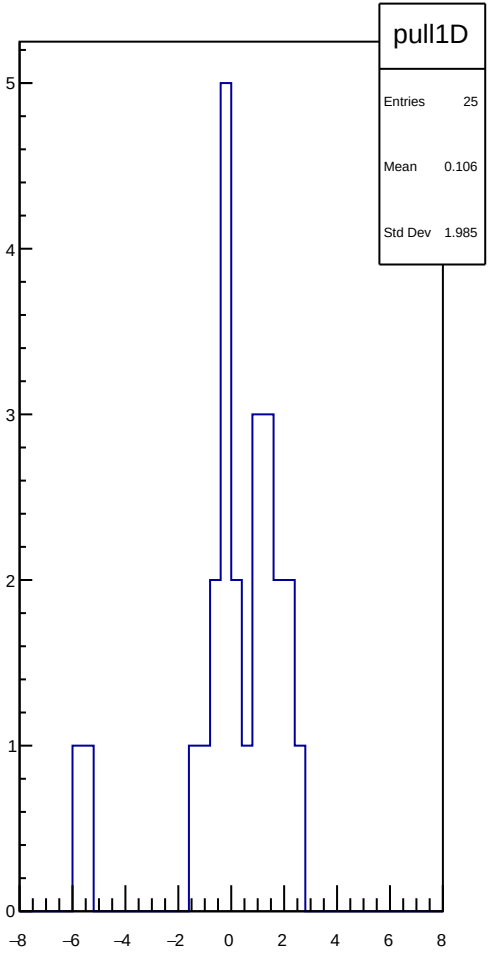

pull
Entries 24
Mean −4.159
Std Dev 15.51
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

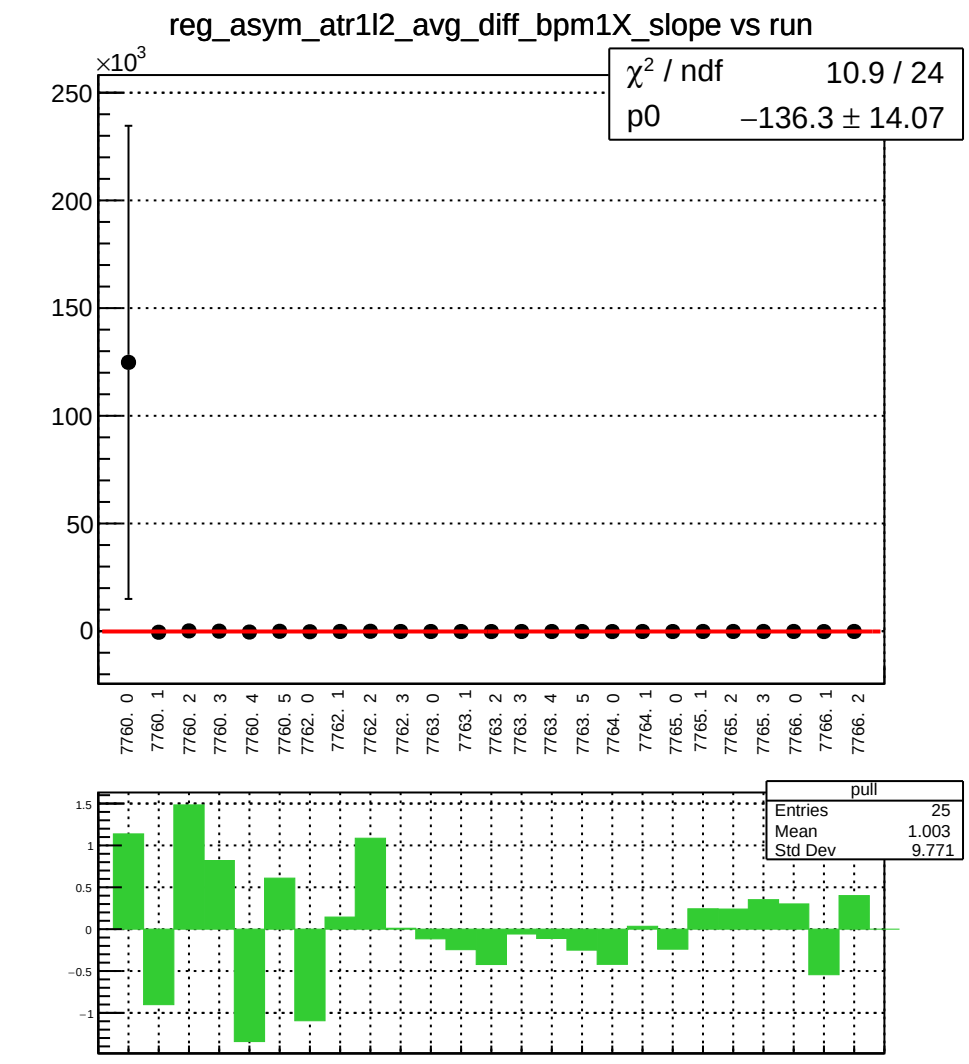

pull1D
Entries 24
Mean −0.009312
Std Dev 1.069
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

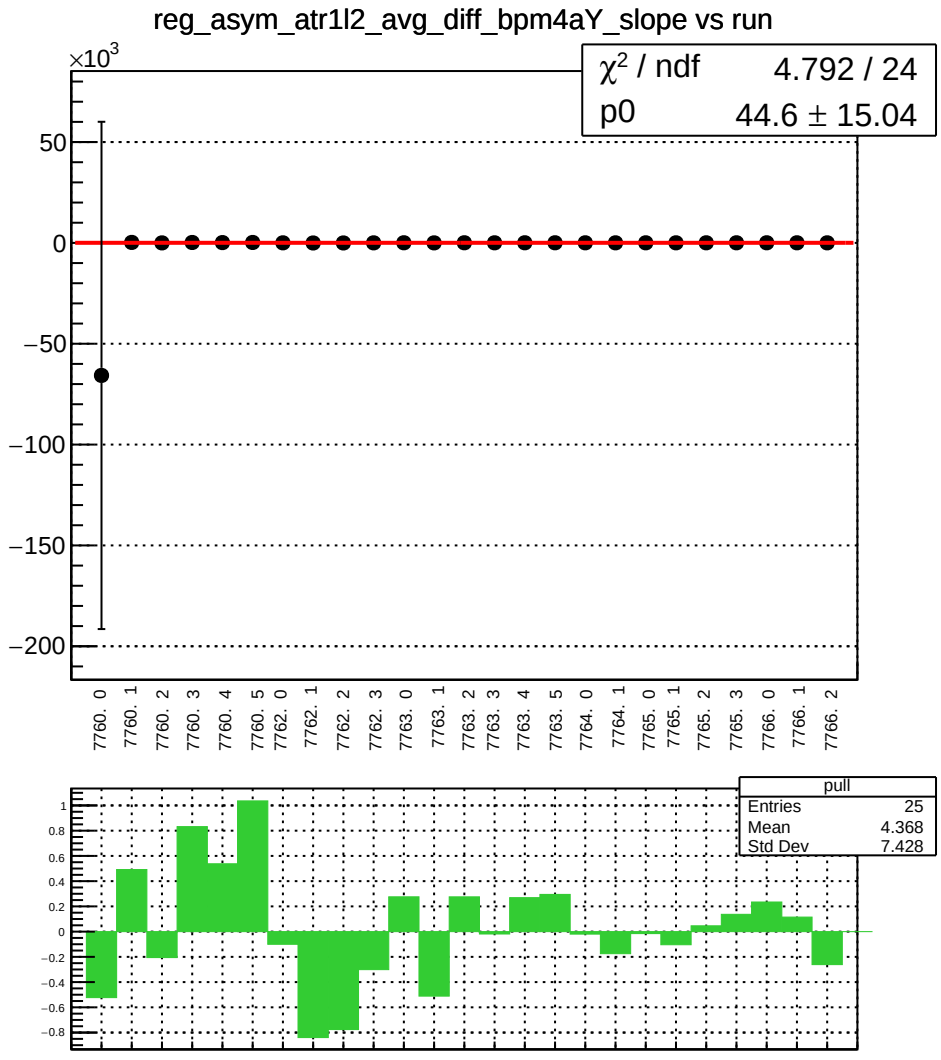

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 21.17 / 23
p0 −13.8 ± 9.158
50000
40000
30000
20000
10000
0
−10000
−20000
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 24
Mean 5.365
Std Dev 5.347
2
1.5
1
0.5
0
−0.5
−1
−1.5

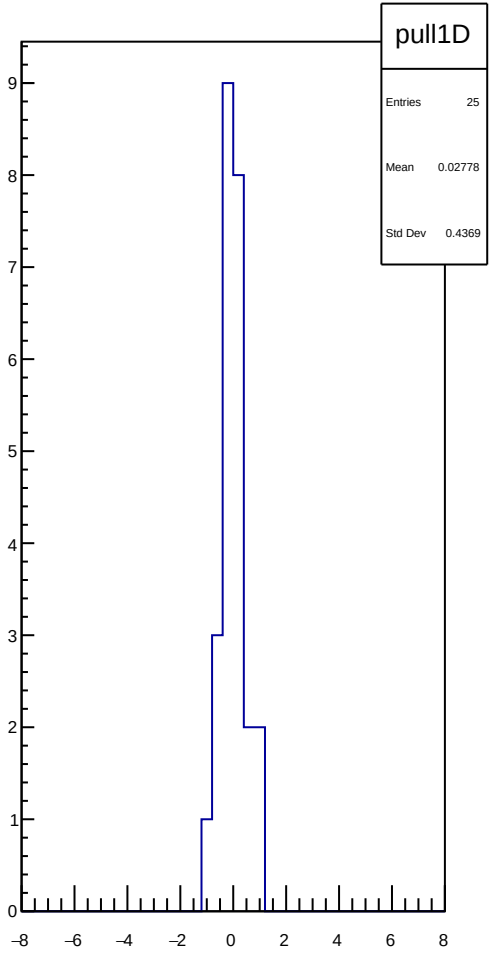

pull1D
Entries 24
Mean 0.09389
Std Dev 0.9345
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

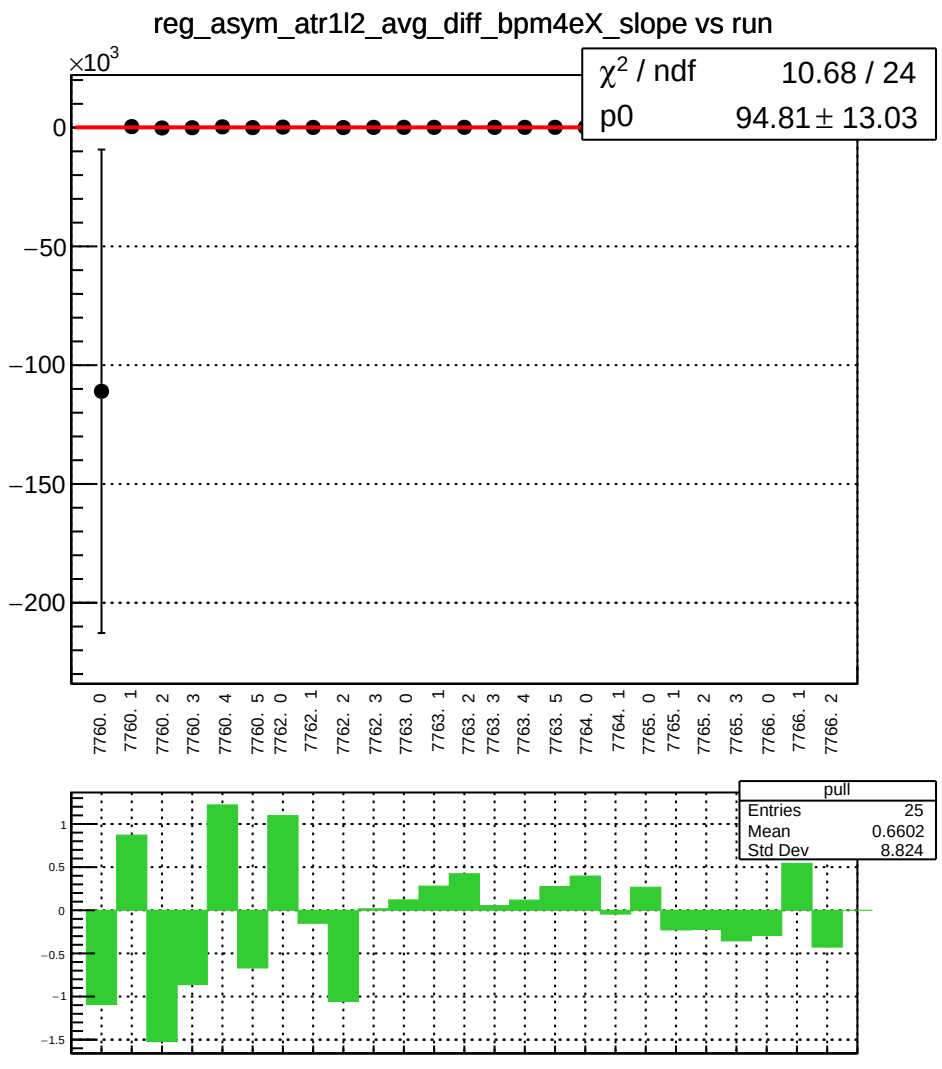

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 98.83 / 24
p0 −2.565 ± 0.2506
×10³
pull
Entries 25
Mean 5.838
Std Dev 13.07

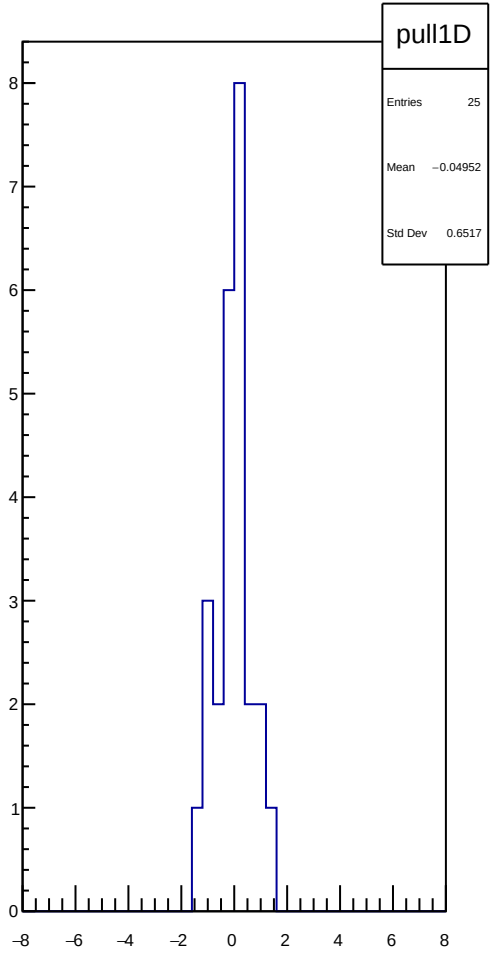

pull1D
Entries 25
Mean 0.106
Std Dev 1.985

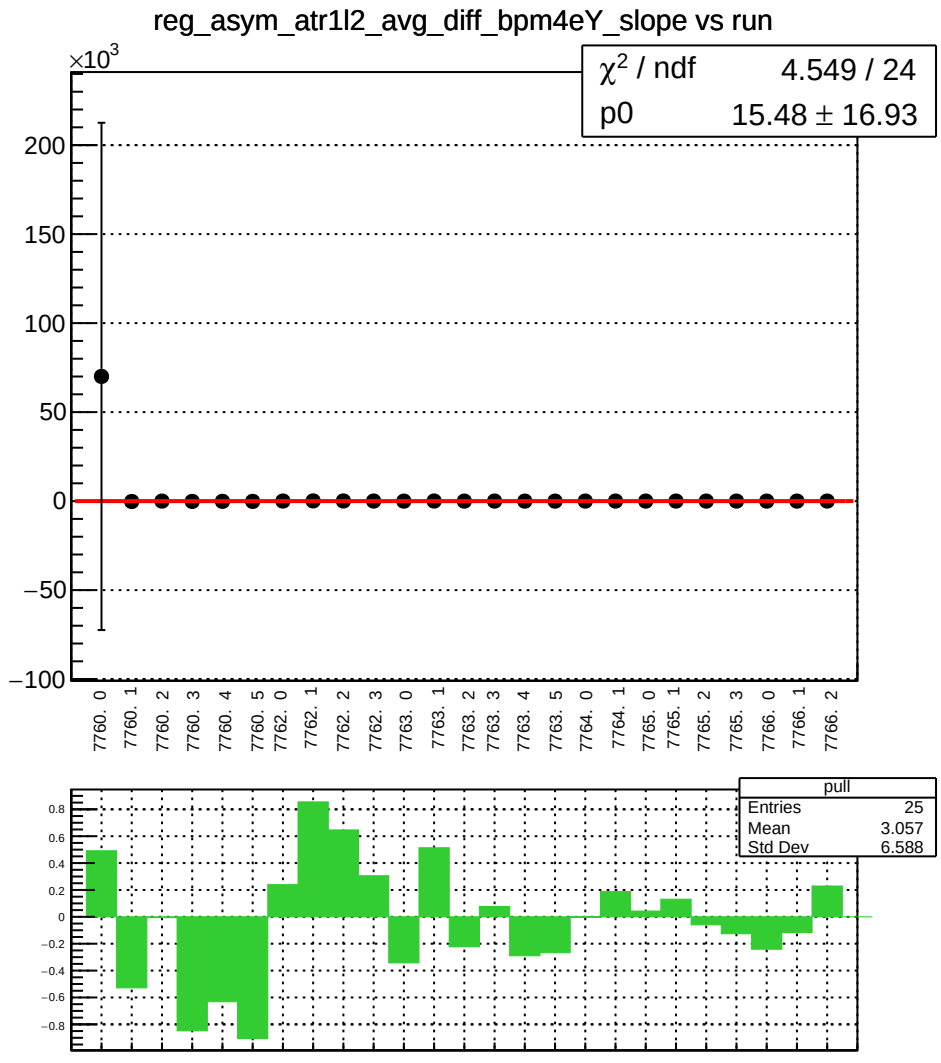

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
×10^3
χ² / ndf 10.9 / 24
p0 −136.3 ± 14.07
250
200
150
100
50
0
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 1.003
Std Dev 9.771
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 25
Mean 0.04481
Std Dev 0.6588
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

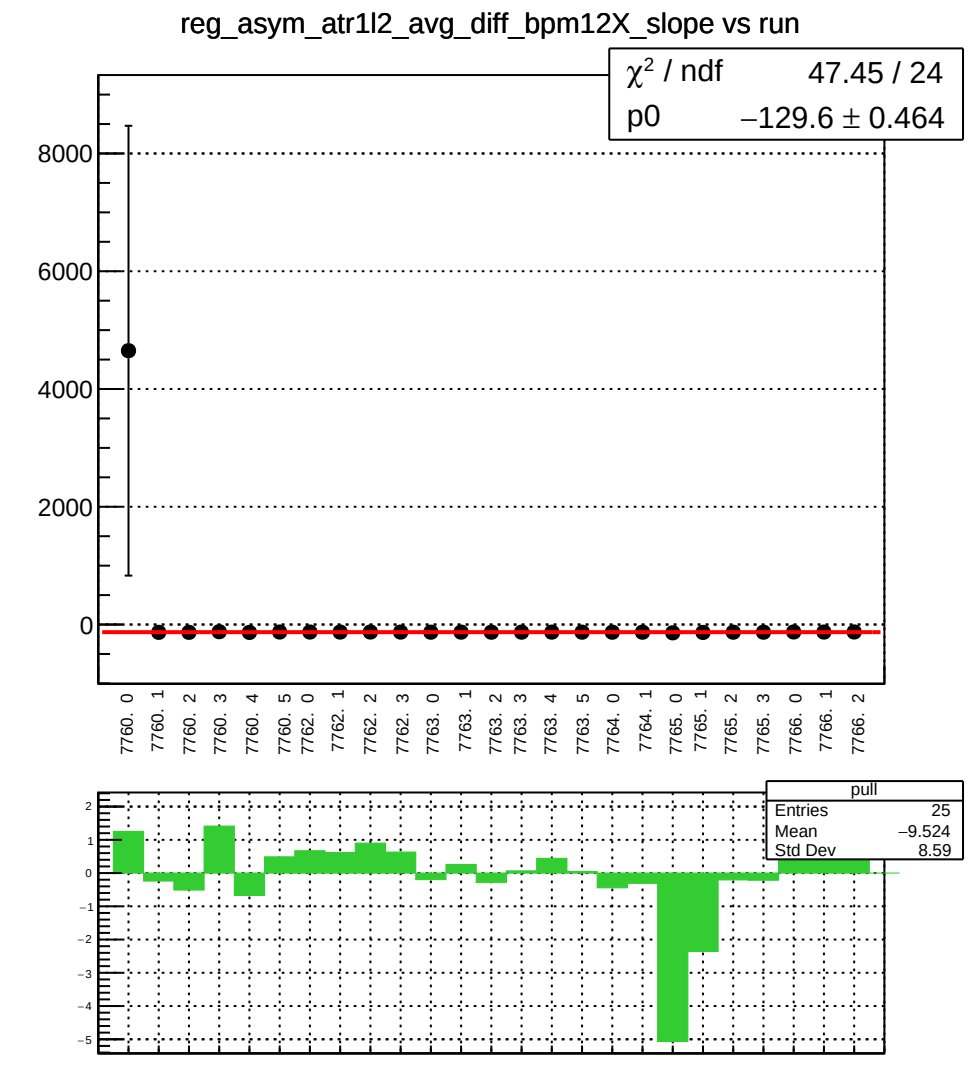

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
×10^3
χ² / ndf 4.792 / 24
p0 44.6 ± 15.04
50
0
−50
−100
−150
−200
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 4.368
Std Dev 7.428
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

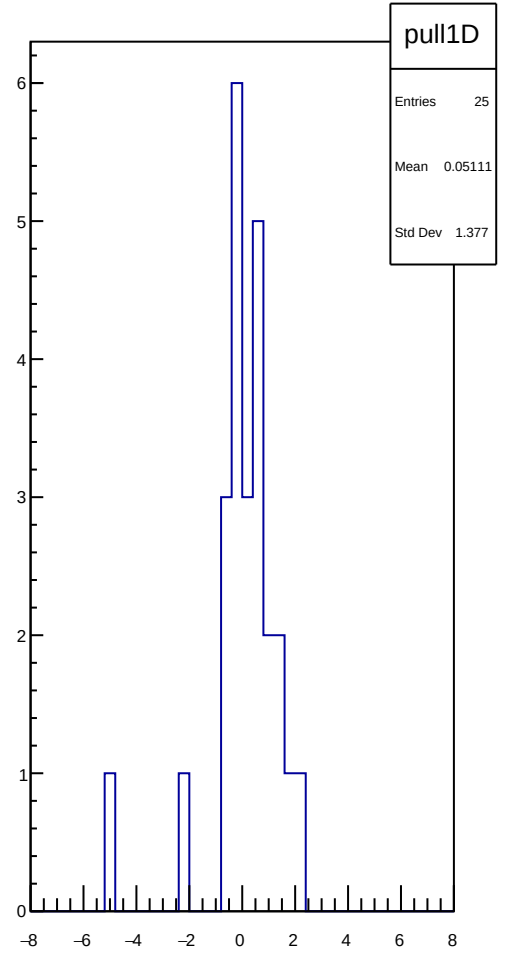

pull1D
Entries 25
Mean 0.02778
Std Dev 0.4369
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

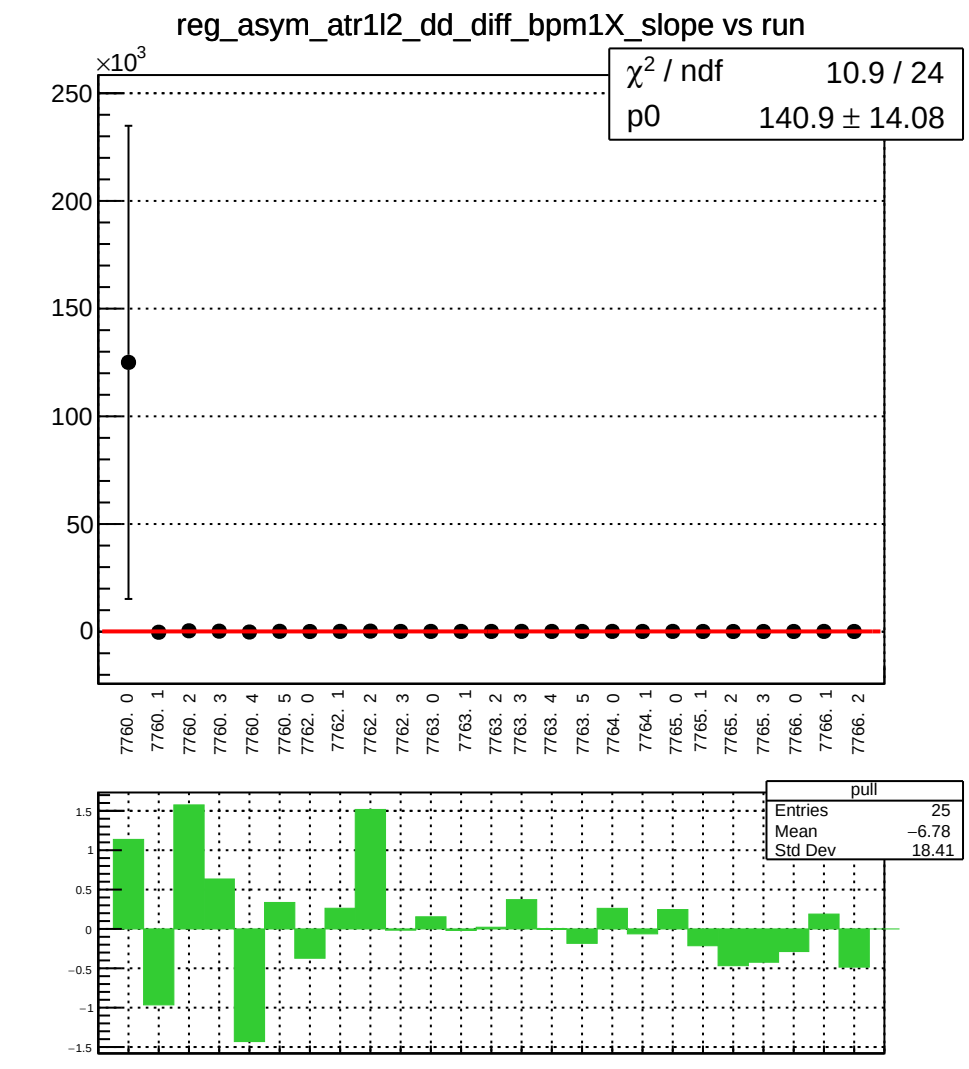

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
×10^3
χ² / ndf 10.68 / 24
p0 94.81 ± 13.03
0
−50
−100
−150
−200
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 0.6602
Std Dev 8.824
1
0.5
0
−0.5
−1
−1.5

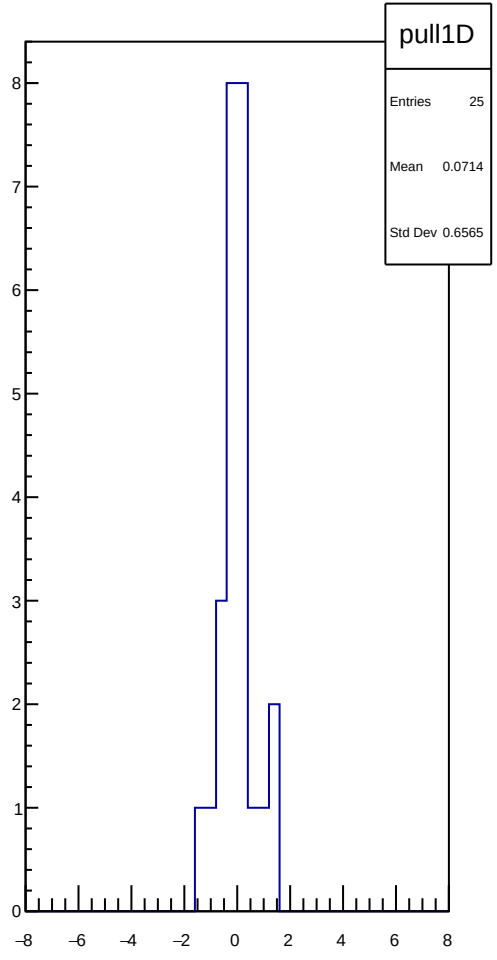

pull1D
Entries 25
Mean −0.04952
Std Dev 0.6517
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

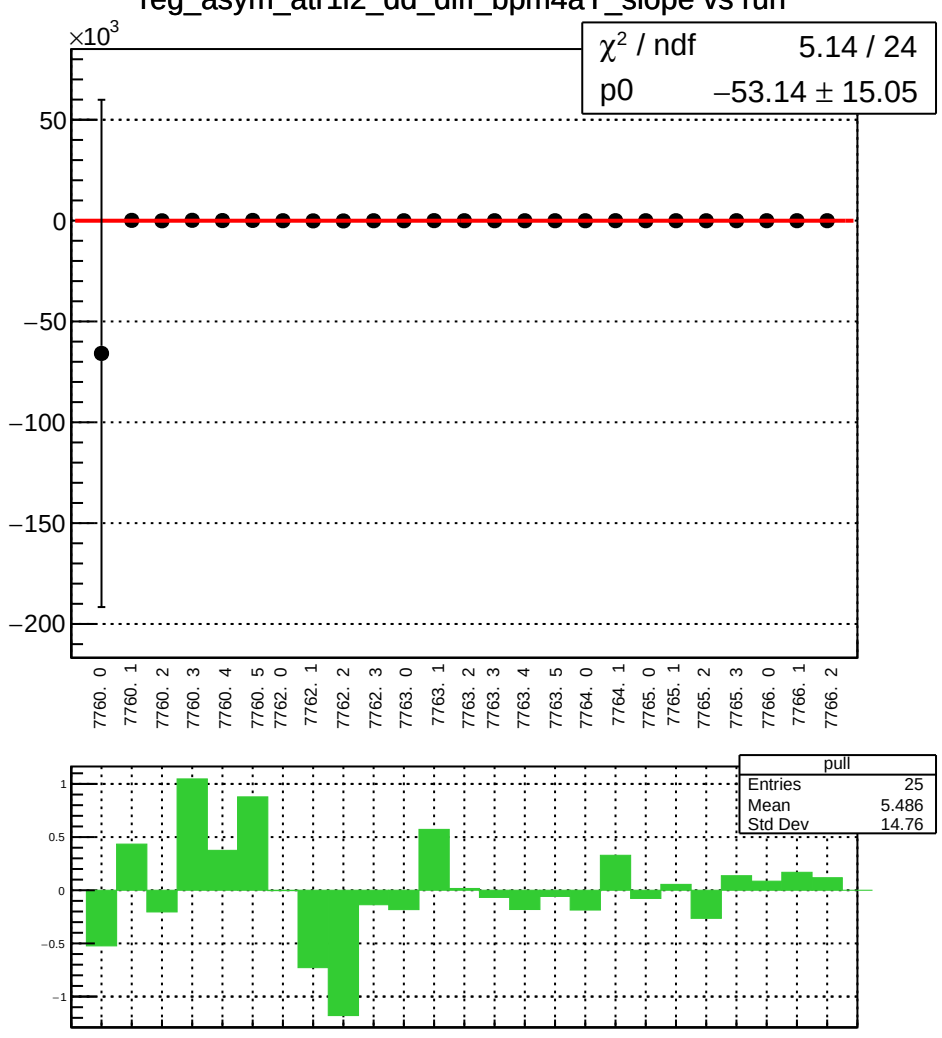

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.549 / 24
p0 15.48 ± 16.93
×10³
200
150
100
50
0
−50
−100
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 3.057
Std Dev 6.588
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 25
Mean −0.03471
Std Dev 0.4251
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

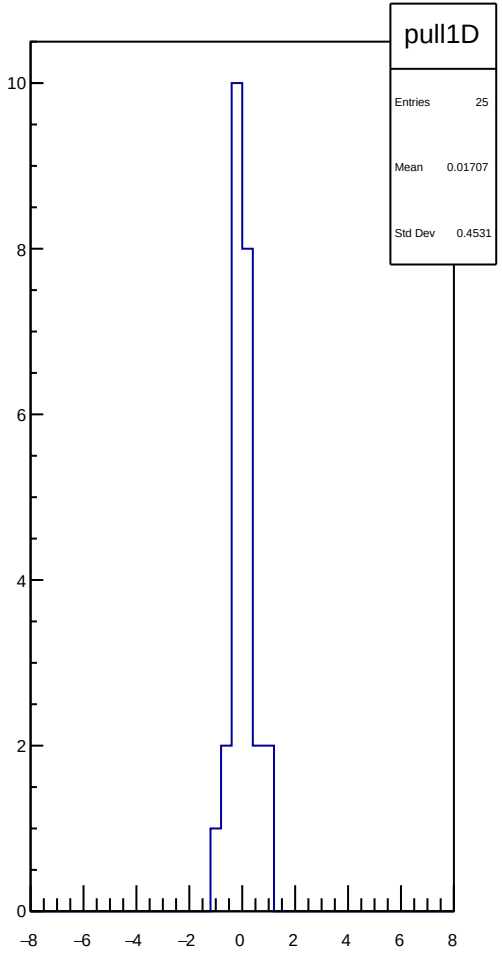

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 47.45 / 24
p0 −129.6 ± 0.464
8000
6000
4000
2000
0
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −9.524
Std Dev 8.59
2
1
0
−1
−2
−3
−4
−5

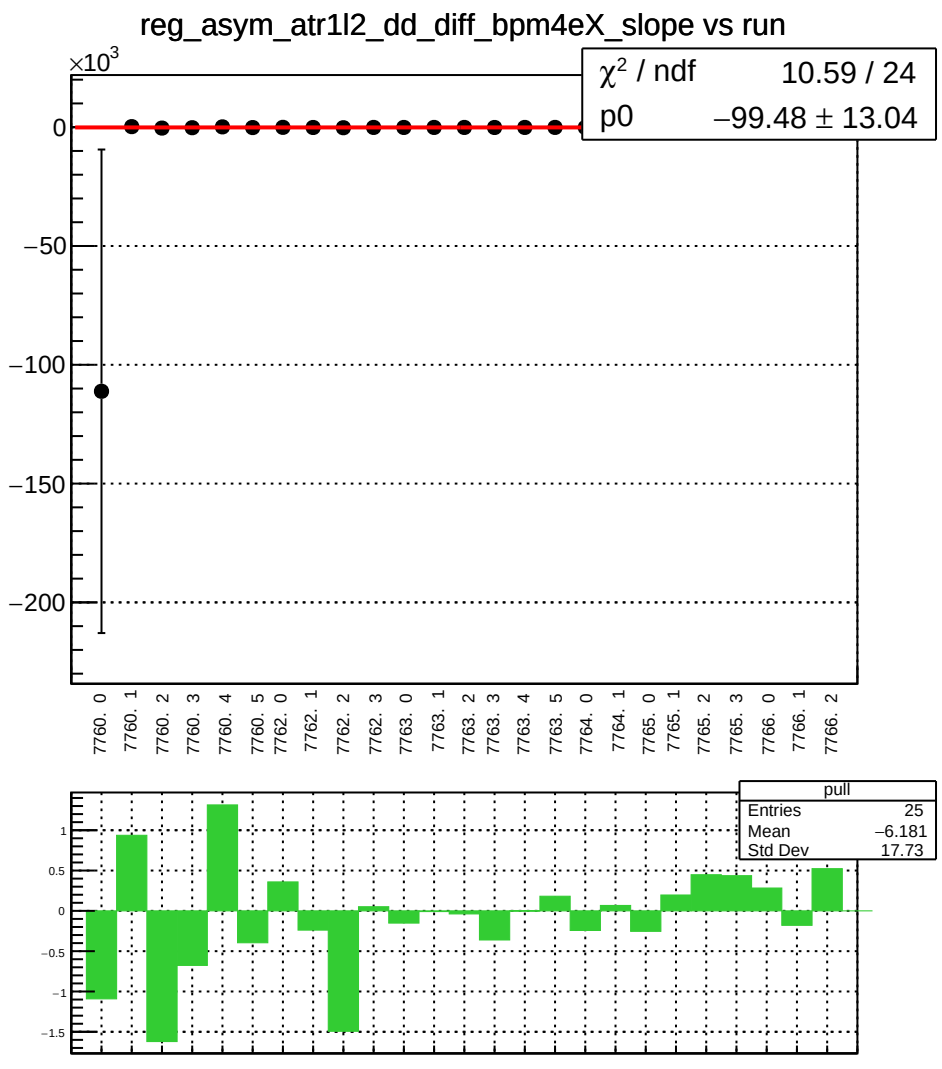

pull1D
Entries 25
Mean 0.05111
Std Dev 1.377
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

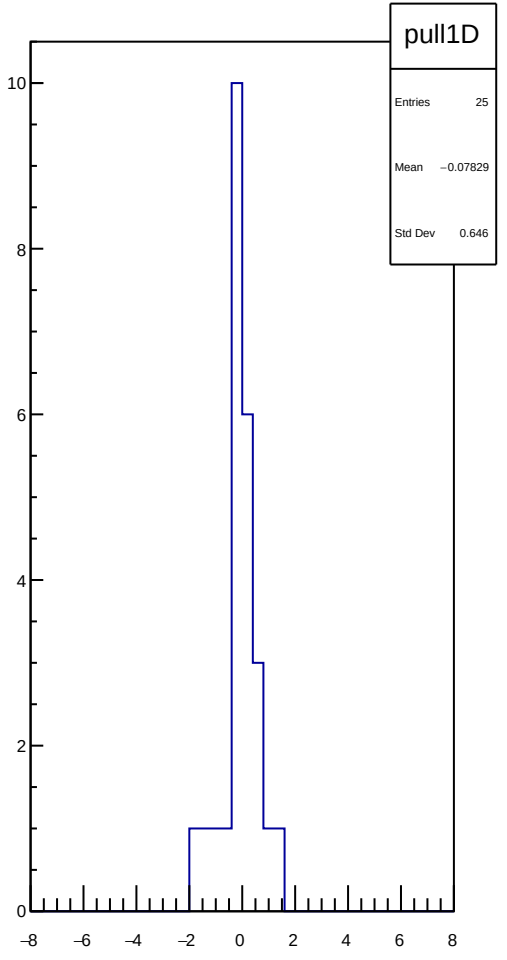

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
×10^3
χ^2 / ndf 10.9 / 24
p0 140.9 ± 14.08
250
200
150
100
50
0
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −6.78
Std Dev 18.41
1.5
1
0.5
0
−0.5
−1
−1.5

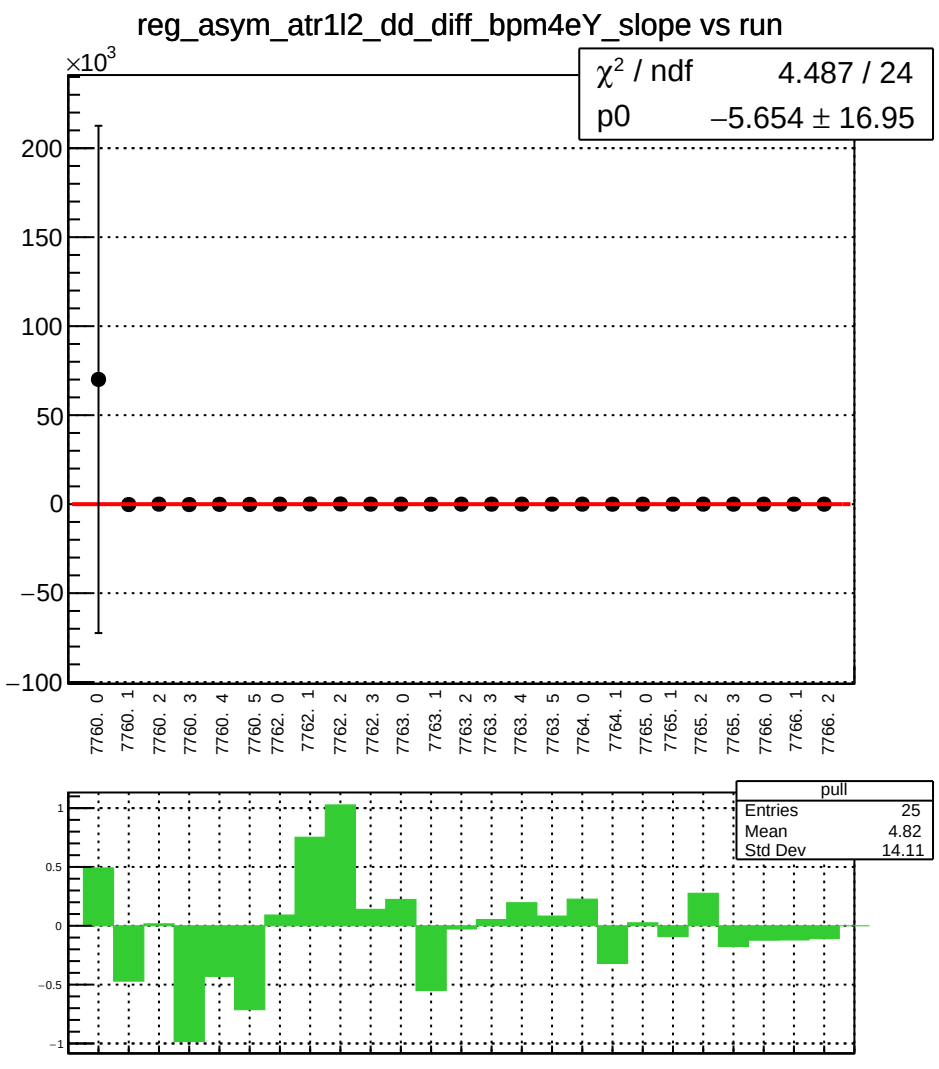

pull1D
Entries 25
Mean 0.0714
Std Dev 0.6565
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

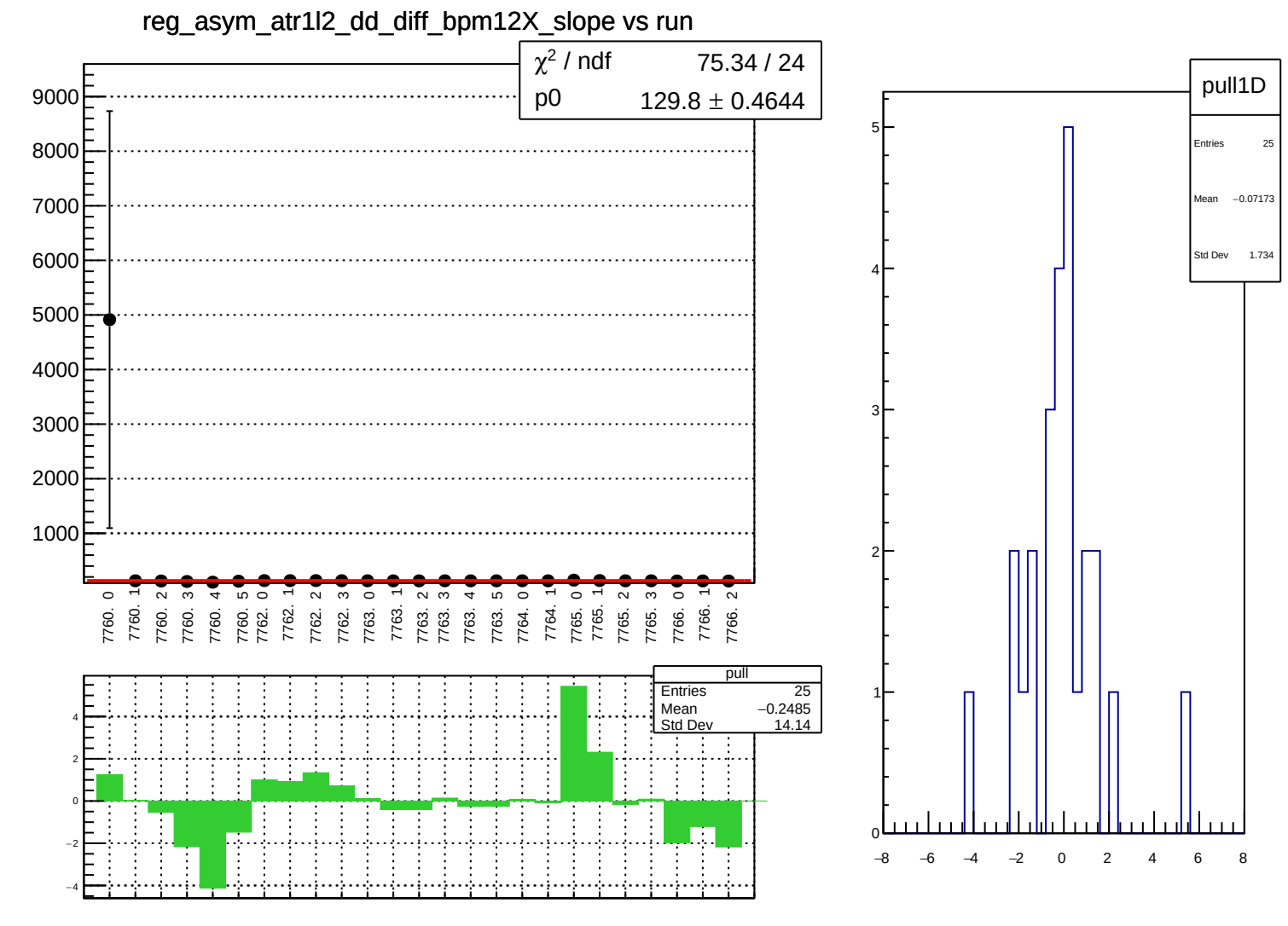

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.14 / 24
p0 −53.14 ± 15.05
×10³
50
0
−50
−100
−150
−200
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 5.486
Std Dev 14.76
1
0.5
0
−0.5
−1

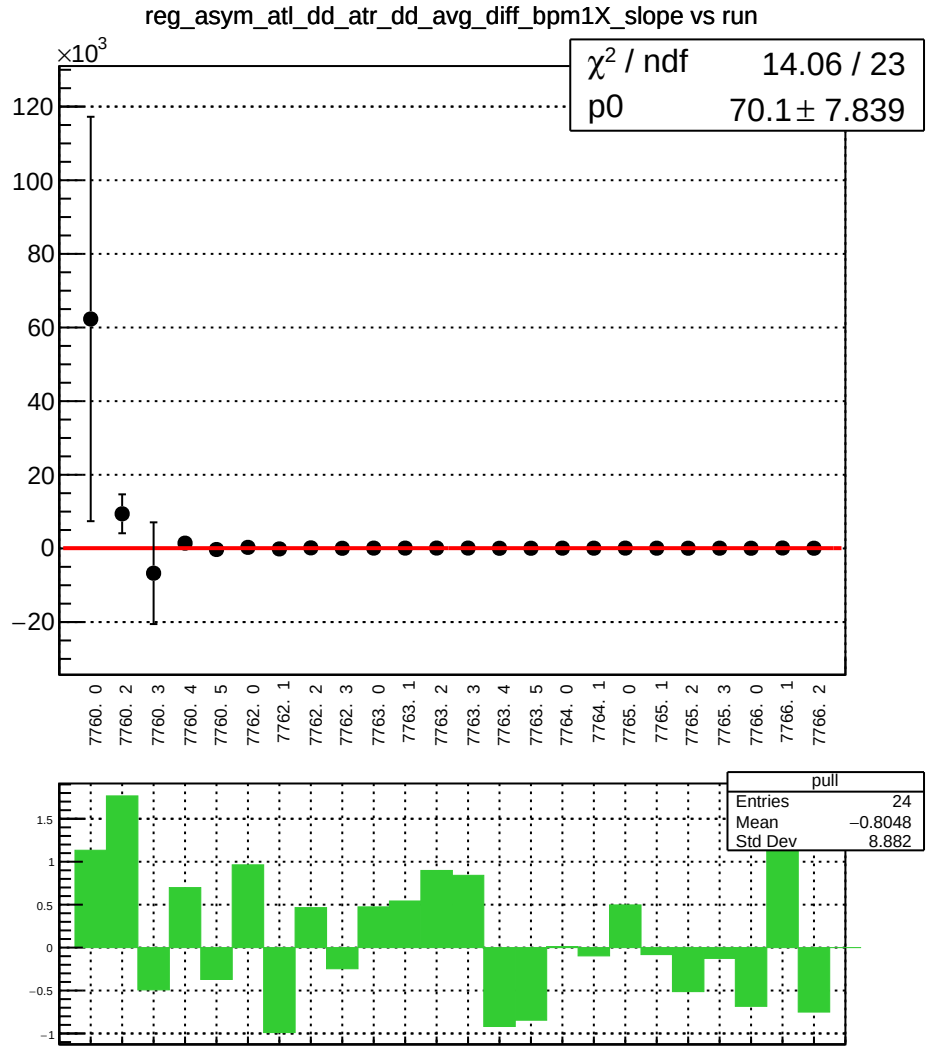

pull1D
Entries 25
Mean 0.01707
Std Dev 0.4531
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

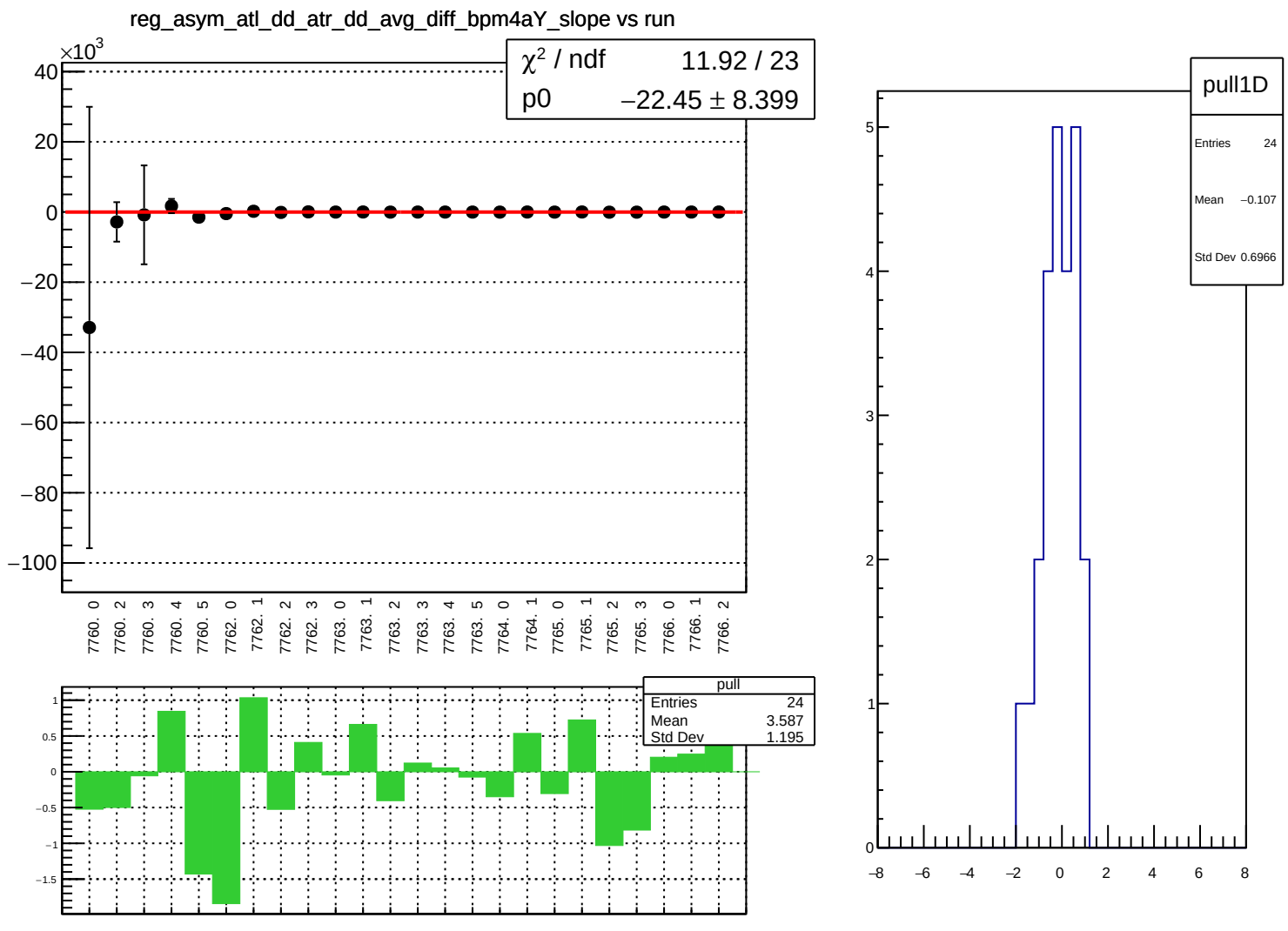

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
×10^3
χ² / ndf 10.59 / 24
p0 −99.48 ± 13.04
0
−50
−100
−150
−200
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −6.181
Std Dev 17.73
1
0.5
0
−0.5
−1
−1.5

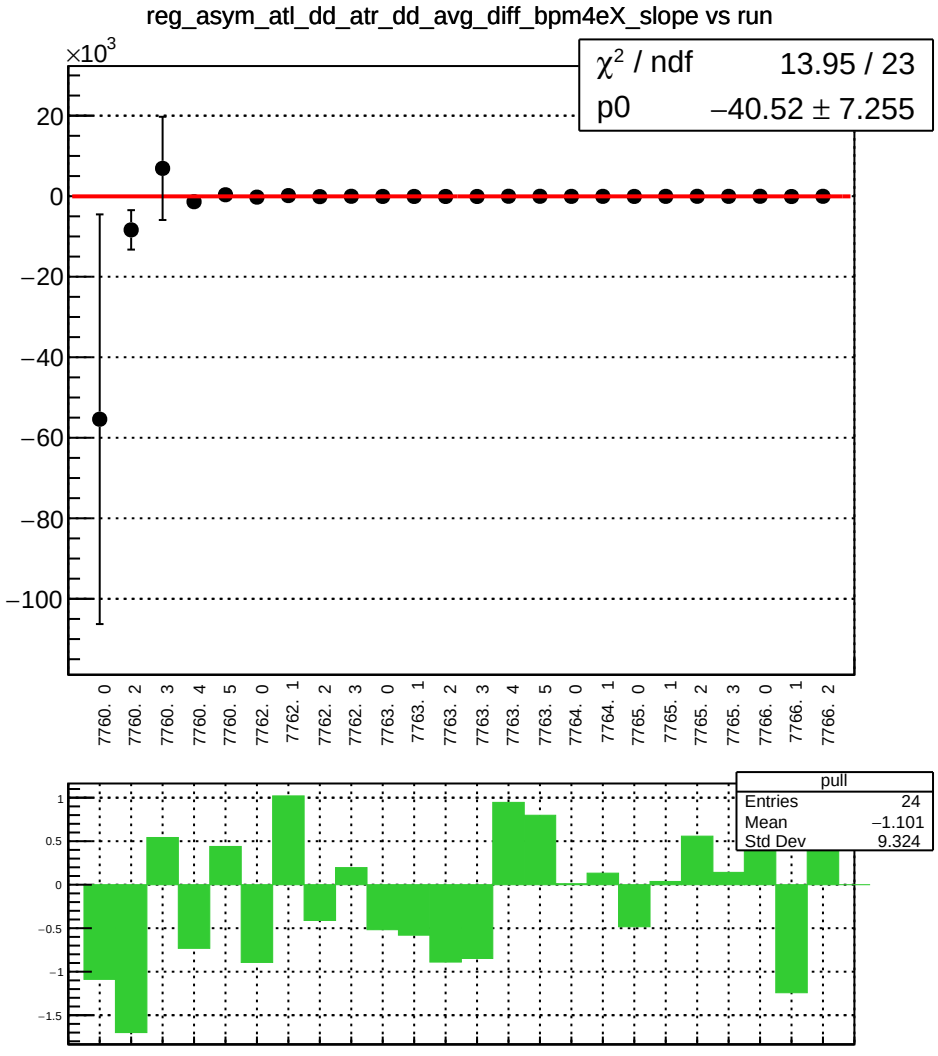

pull1D
Entries 25
Mean −0.07829
Std Dev 0.646
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

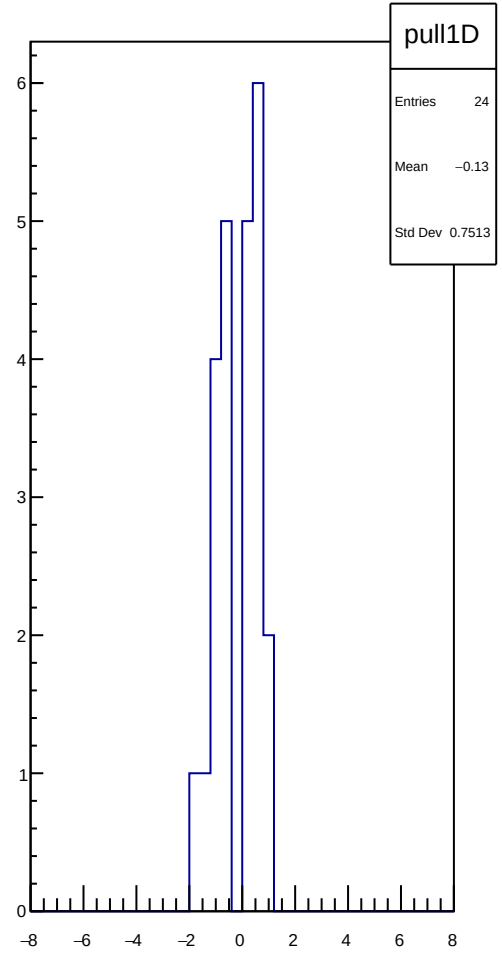

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.487 / 24
p0 −5.654 ± 16.95
×10³
200
150
100
50
0
−50
−100
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 4.82
Std Dev 14.11
1
0.5
0
−0.5
−1
pull1D
Entries 25
Mean −0.02044
Std Dev 0.4232
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

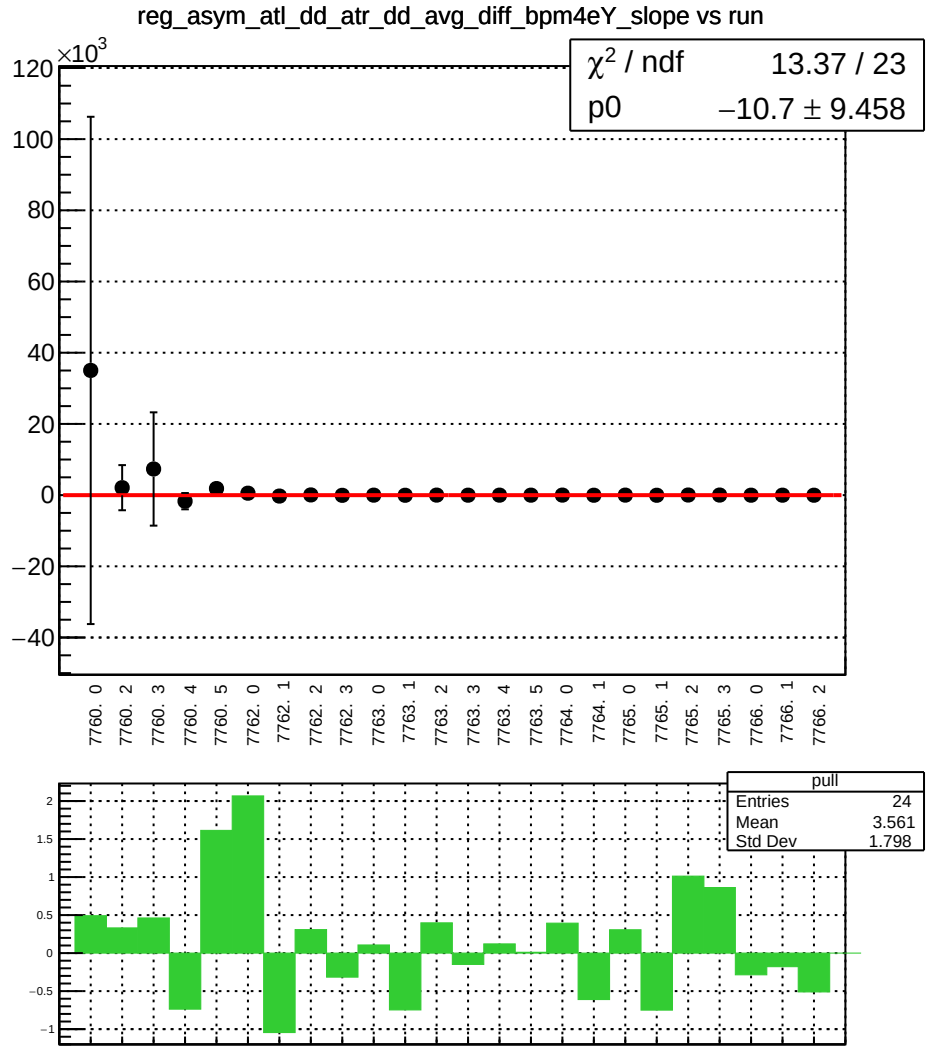

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 75.34 / 24
p0 129.8 ± 0.4644
9000
8000
7000
6000
5000
4000
3000
2000
1000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −0.2485
Std Dev 14.14
4
2
0
−2
−4
pull1D
Entries 25
Mean −0.07173
Std Dev 1.734
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

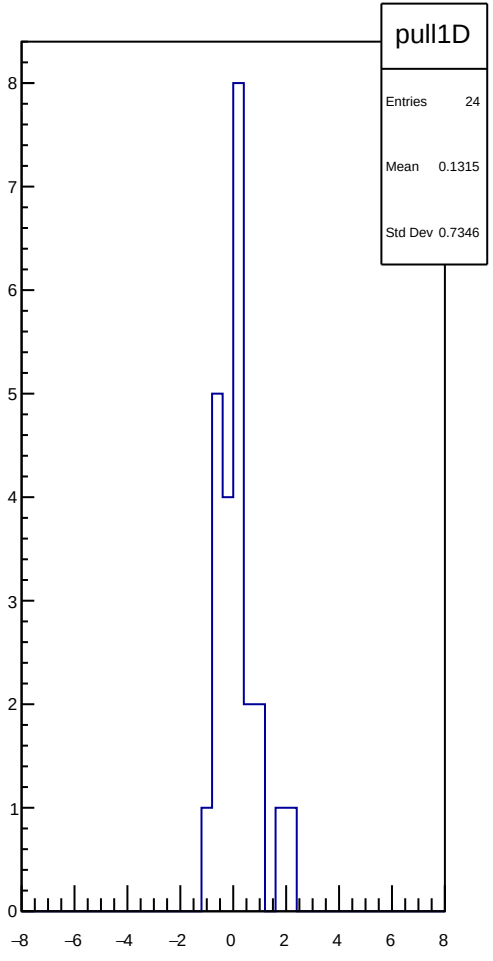

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
×10^3
χ² / ndf 14.06 / 23
p0 70.1 ± 7.839
120
100
80
60
40
20
0
−20
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 24
Mean −0.8048
Std Dev 8.882
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean 0.1408
Std Dev 0.7523
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

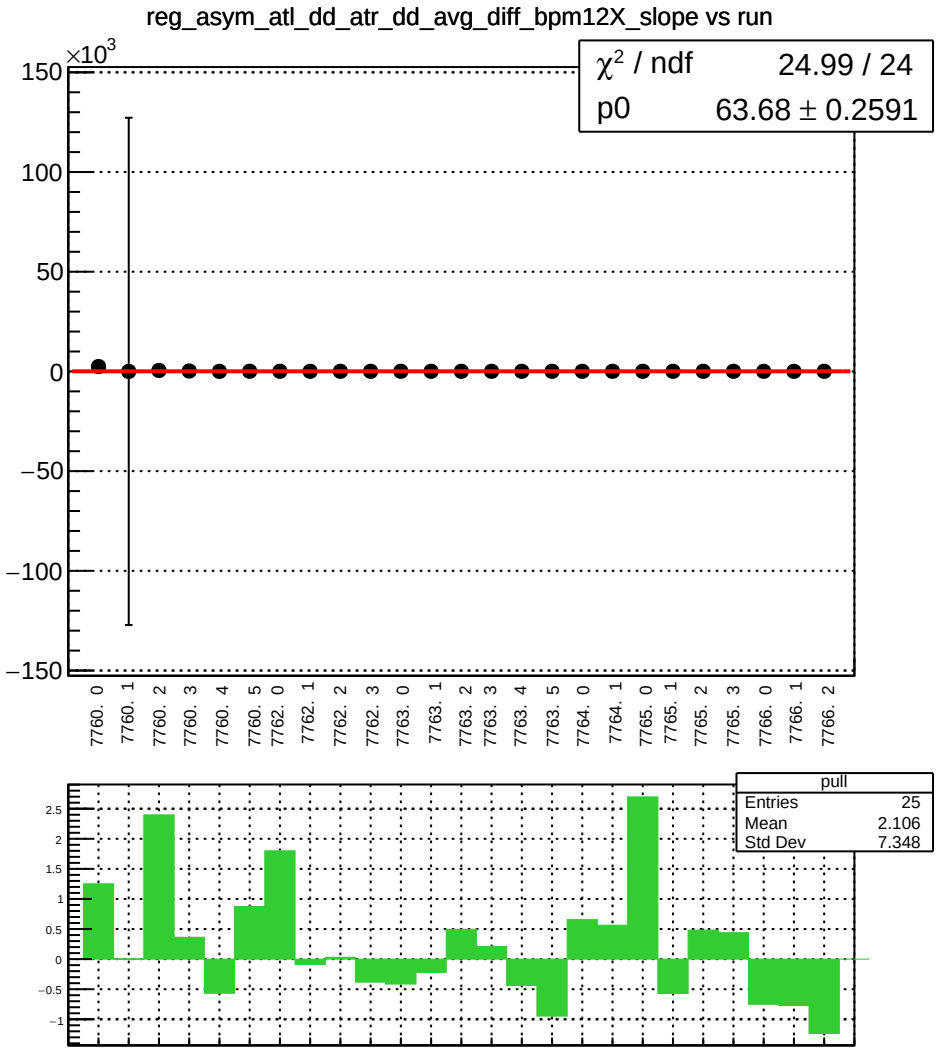

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
×10^3
χ² / ndf 11.92 / 23
p0 −22.45 ± 8.399
40
20
0
−20
−40
−60
−80
−100
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 24
Mean 3.587
Std Dev 1.195
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.107
Std Dev 0.6966
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

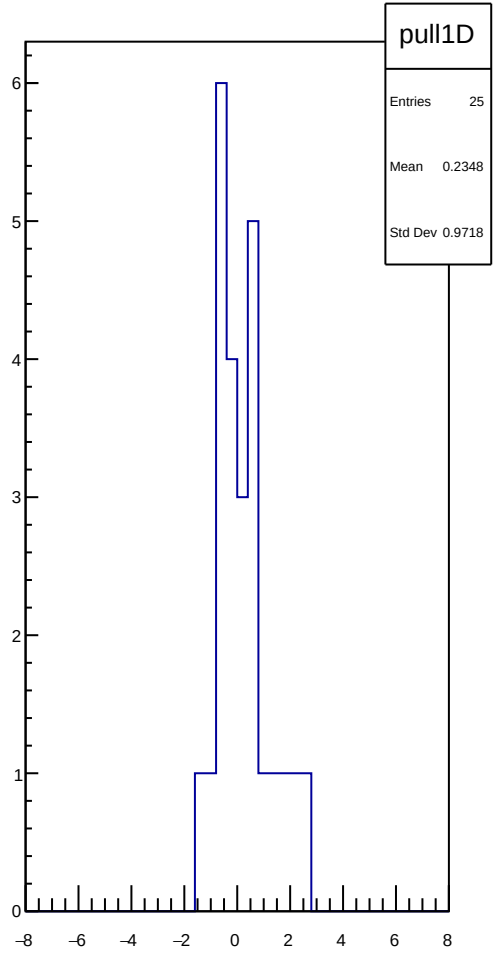

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
×10^3
χ² / ndf 13.95 / 23
p0 −40.52 ± 7.255
20
0
−20
−40
−60
−80
−100
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 24
Mean −1.101
Std Dev 9.324
1
0.5
0
−0.5
−1
−1.5

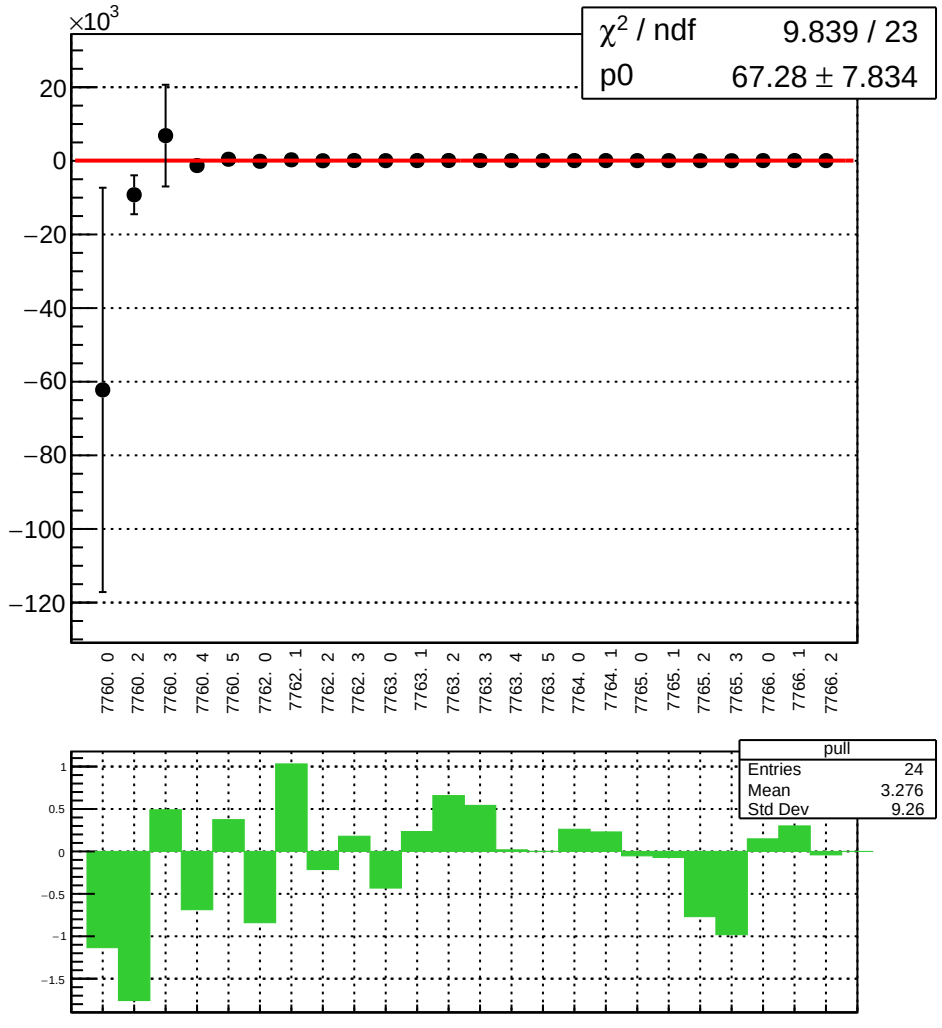

pull1D
Entries 24
Mean −0.13
Std Dev 0.7513
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

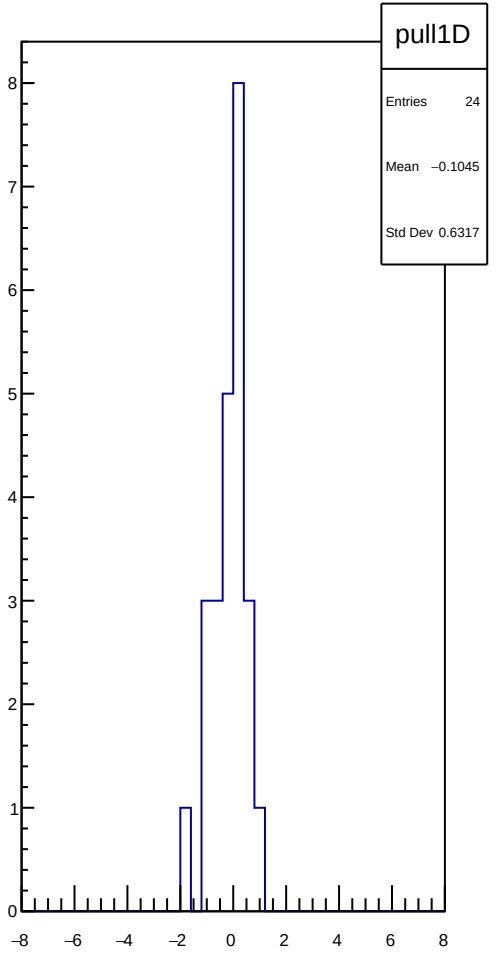

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 13.37 / 23
p0 −10.7 ± 9.458
×10³
pull
Entries 24
Mean 3.561
Std Dev 1.798

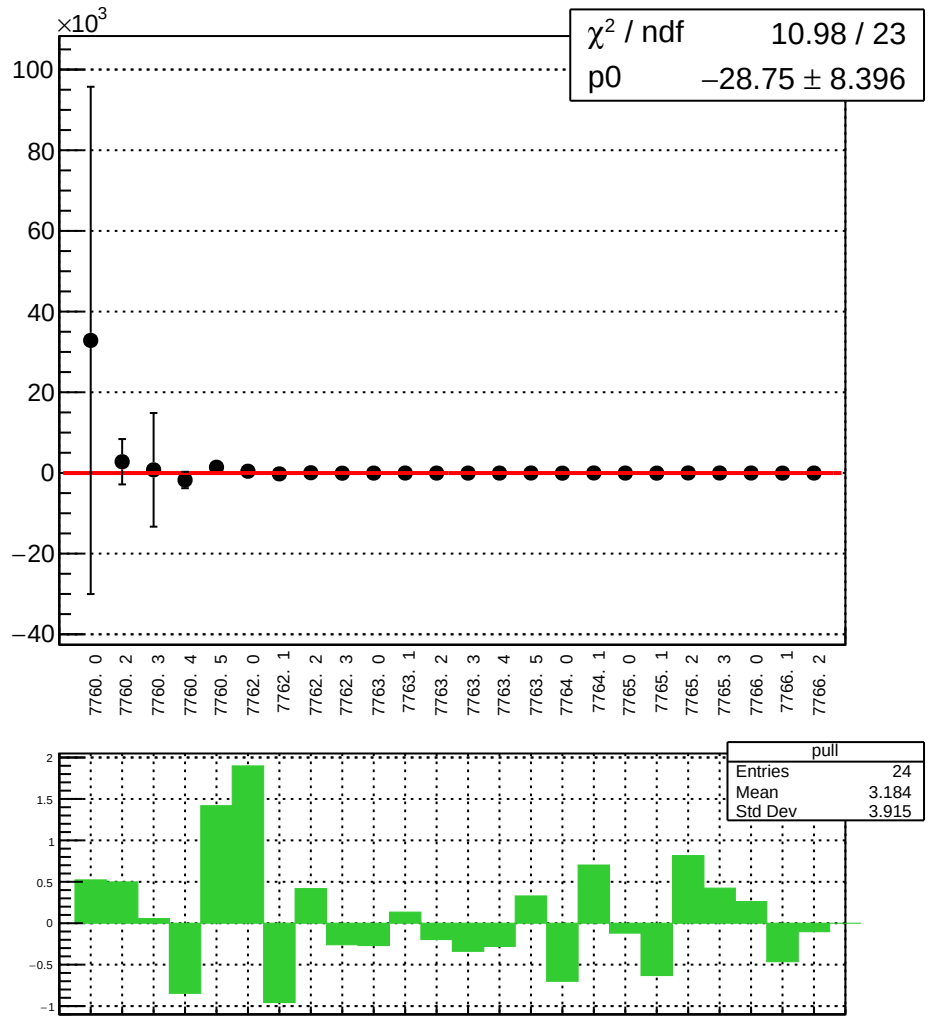

pull1D
Entries 24
Mean 0.1315
Std Dev 0.7346

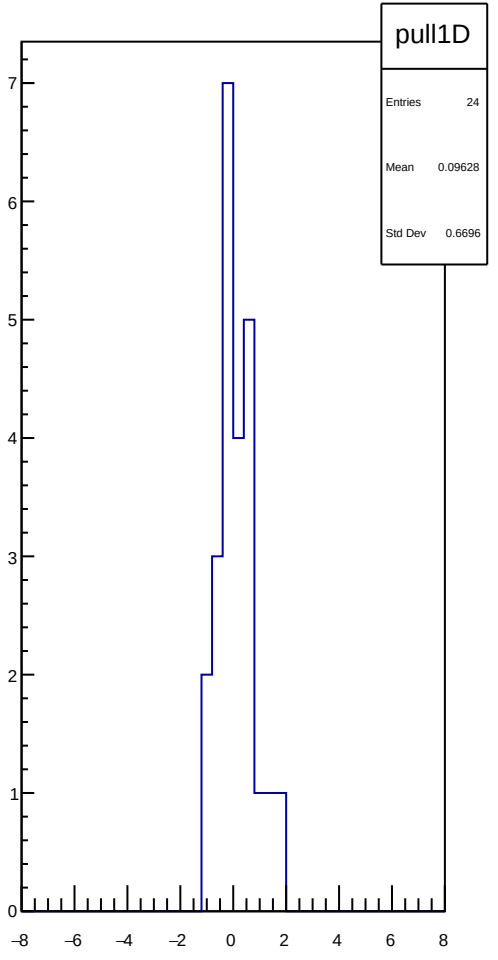

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 24.99 / 24
p0 63.68 ± 0.2591
×10³
pull
Entries 25
Mean 2.106
Std Dev 7.348

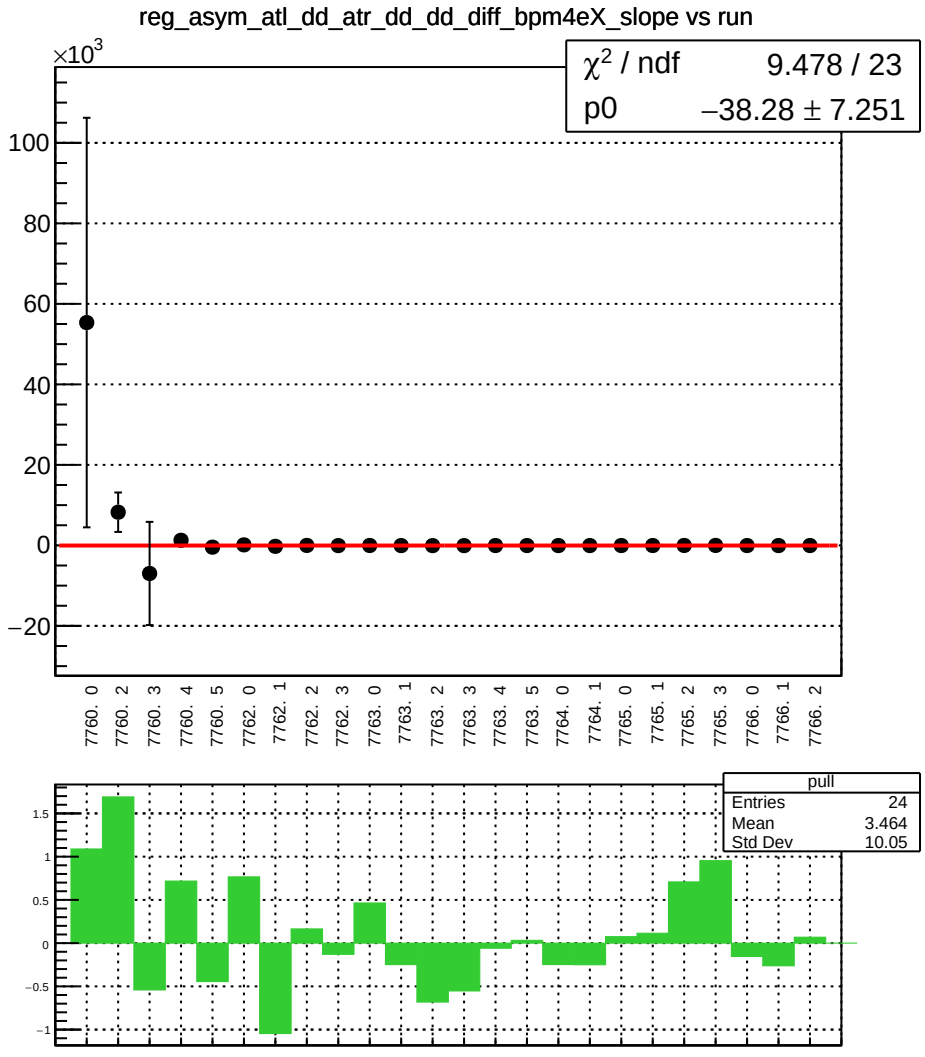

pull1D
Entries 25
Mean 0.2348
Std Dev 0.9718

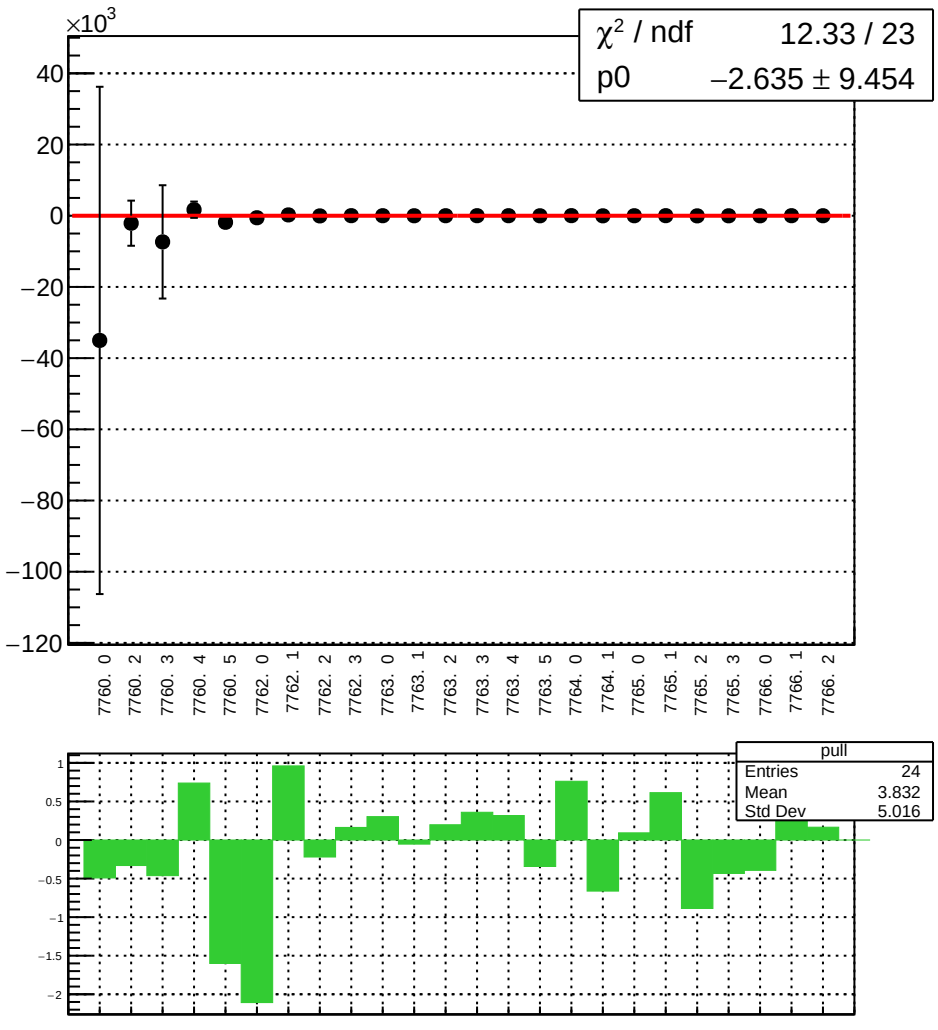

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
×10^3
χ^2 / ndf 9.839 / 23
p0 67.28 ± 7.834
20
0
−20
−40
−60
−80
−100
−120
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 24
Mean 3.276
Std Dev 9.26
1
0.5
0
−0.5
−1
−1.5

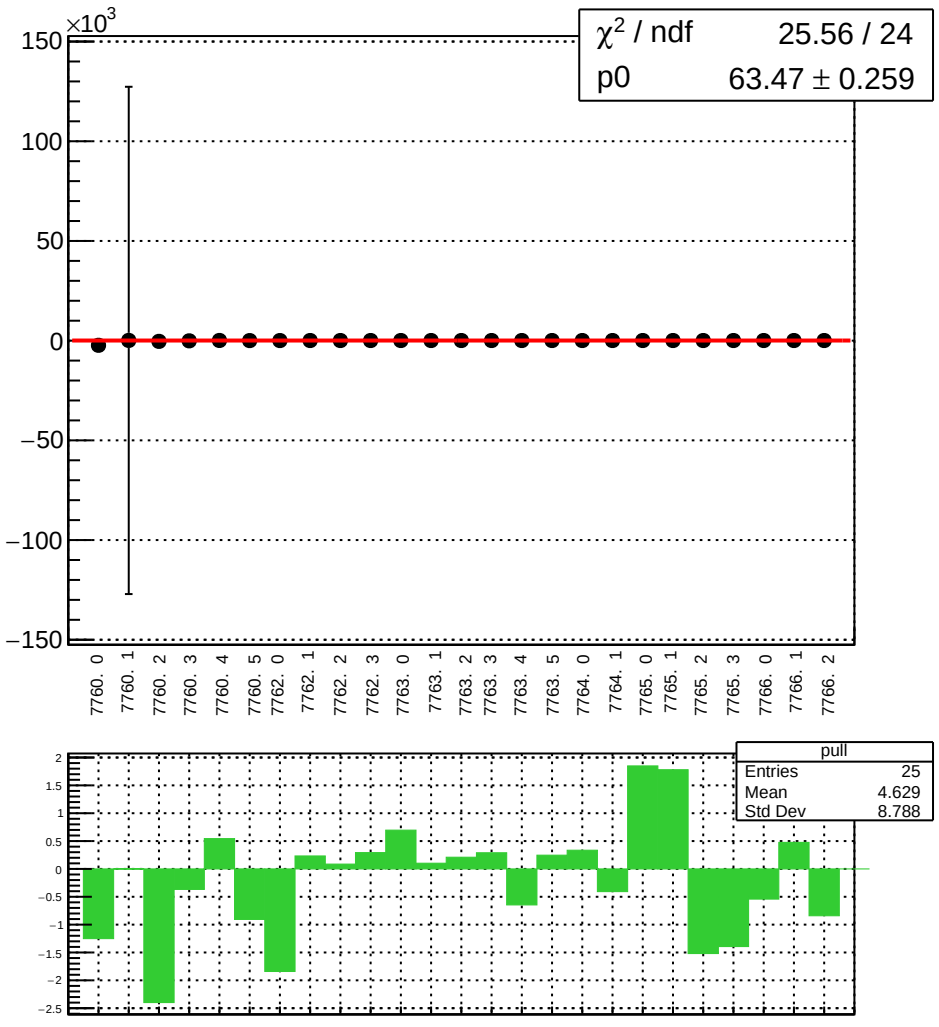

pull1D
Entries 24
Mean −0.1045
Std Dev 0.6317
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

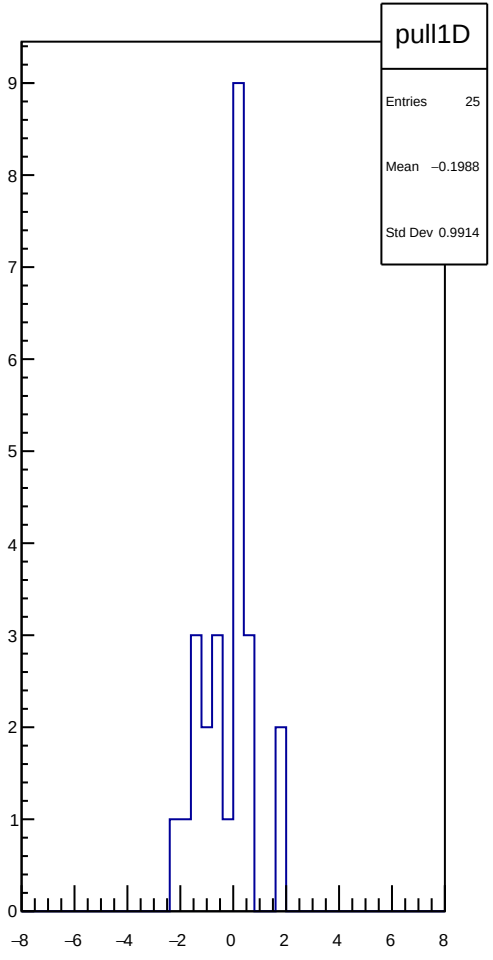

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
×10^3
χ² / ndf 10.98 / 23
p0 −28.75 ± 8.396
100
80
60
40
20
0
−20
−40
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 24
Mean 3.184
Std Dev 3.915
2
1.5
1
0.5
0
−0.5
−1

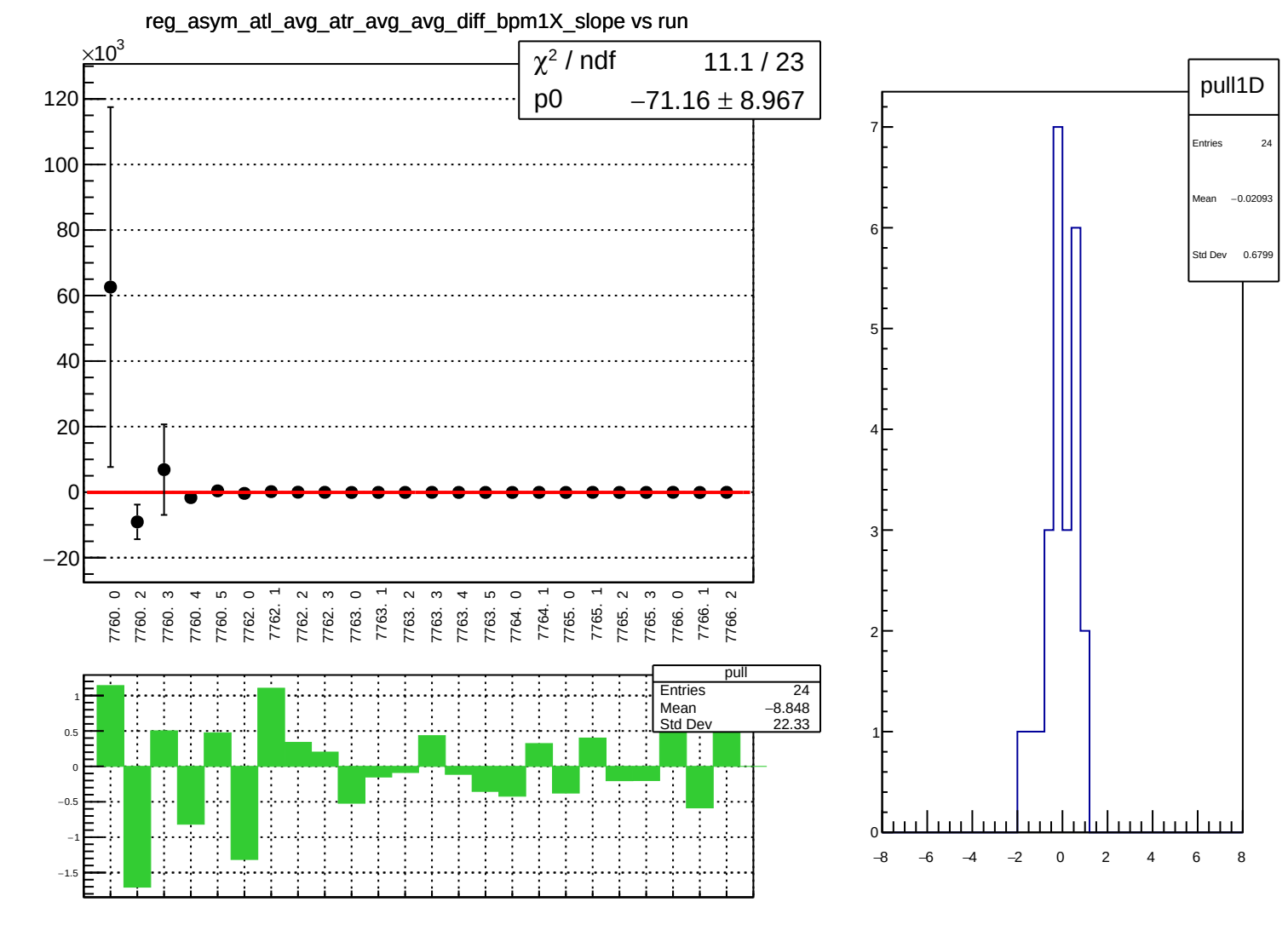

pull1D
Entries 24
Mean 0.09628
Std Dev 0.6696
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

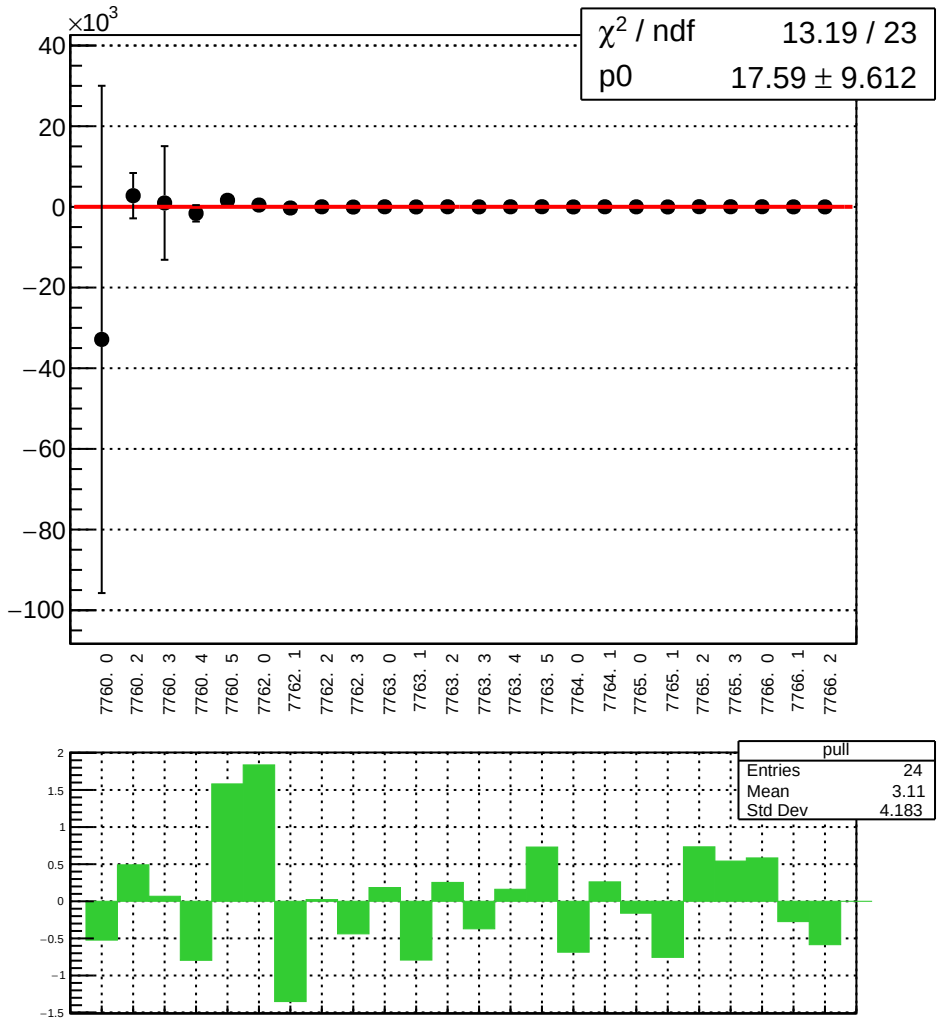

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
×10^3
χ² / ndf 9.478 / 23
p0 −38.28 ± 7.251
100
80
60
40
20
0
−20
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 24
Mean 3.464
Std Dev 10.05
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean 0.09273
Std Dev 0.6215
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

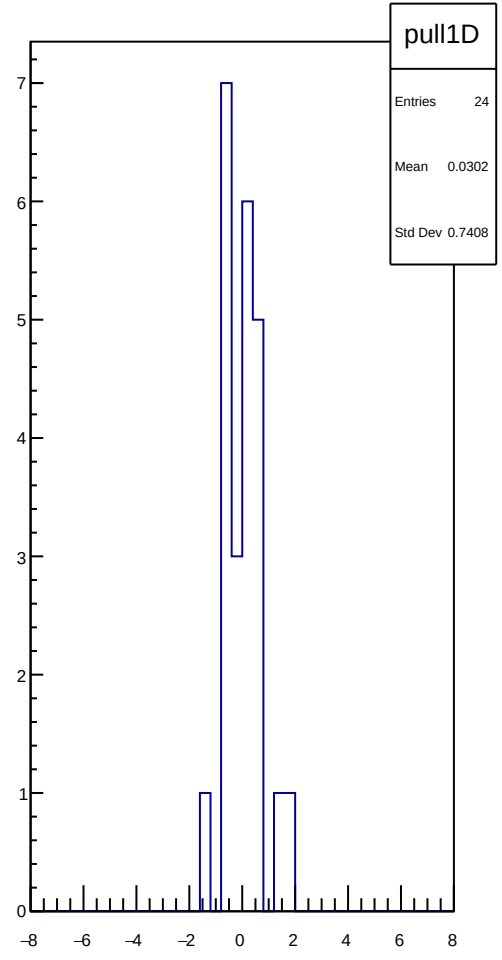

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 12.33 / 23
p0 −2.635 ± 9.454
×10³
40
20
0
−20
−40
−60
−80
−100
−120
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 24
Mean 3.832
Std Dev 5.016
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.1202
Std Dev 0.7067
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

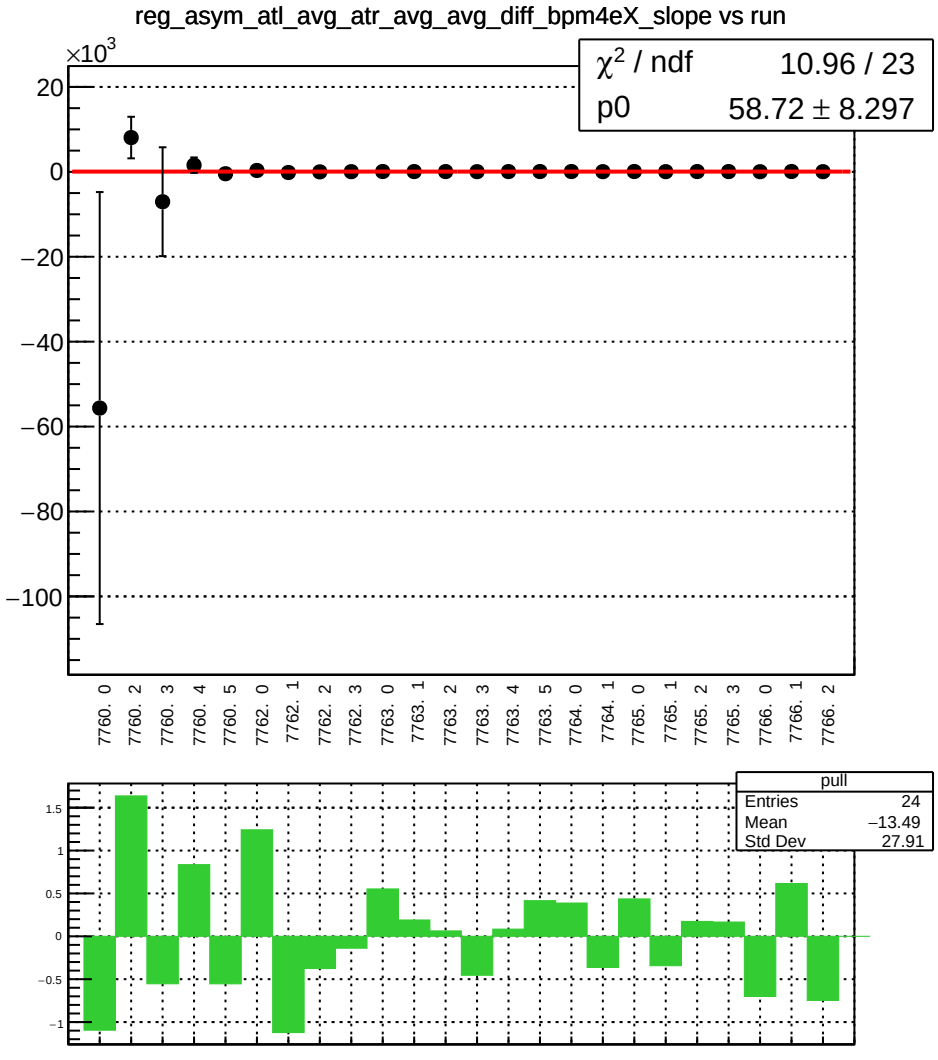

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
×10^3
χ^2 / ndf 25.56 / 24
p0 63.47 ± 0.259
150
100
50
0
−50
−100
−150
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 4.629
Std Dev 8.788
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

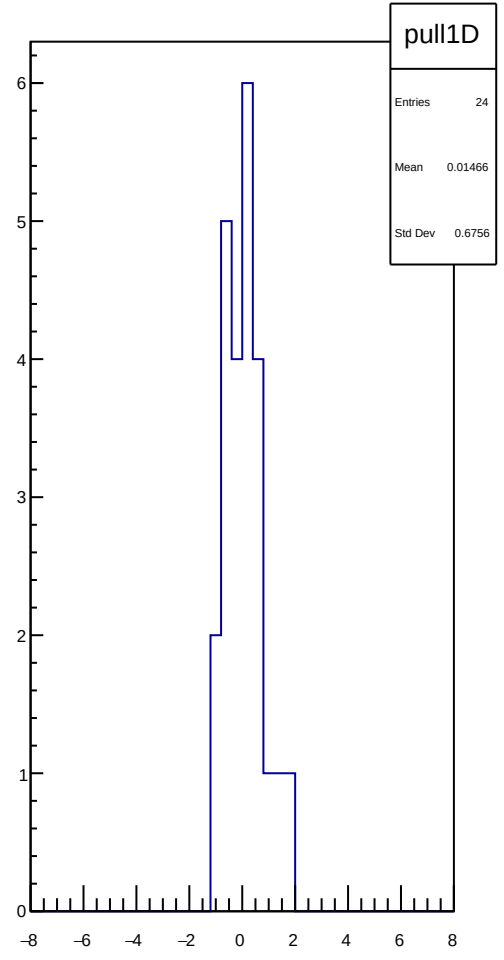

pull1D
Entries 25
Mean −0.1988
Std Dev 0.9914
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

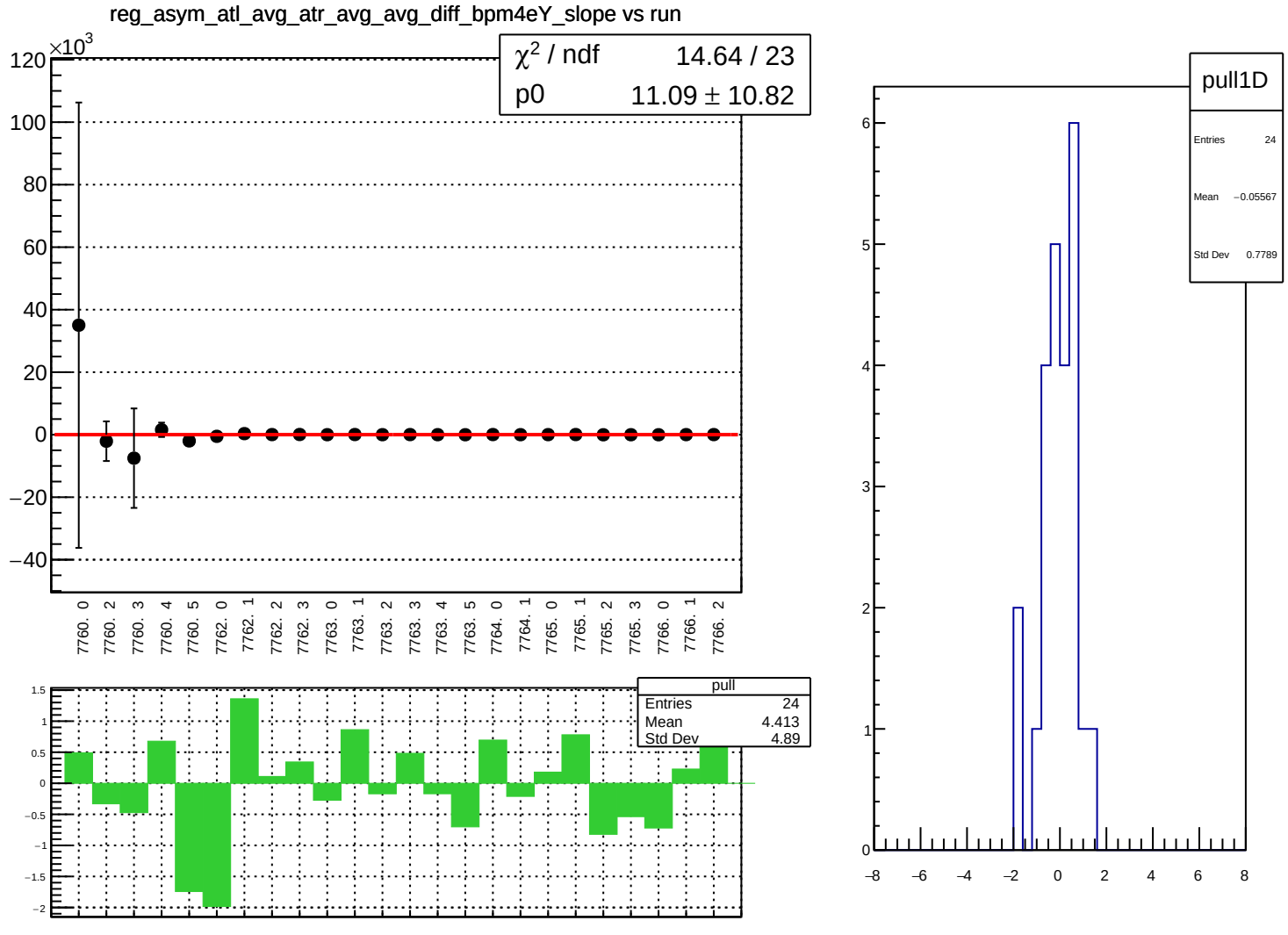

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
×10^3
χ² / ndf 11.1 / 23
p0 −71.16 ± 8.967
120
100
80
60
40
20
0
−20
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 24
Mean −8.848
Std Dev 22.33
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.02093
Std Dev 0.6799
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

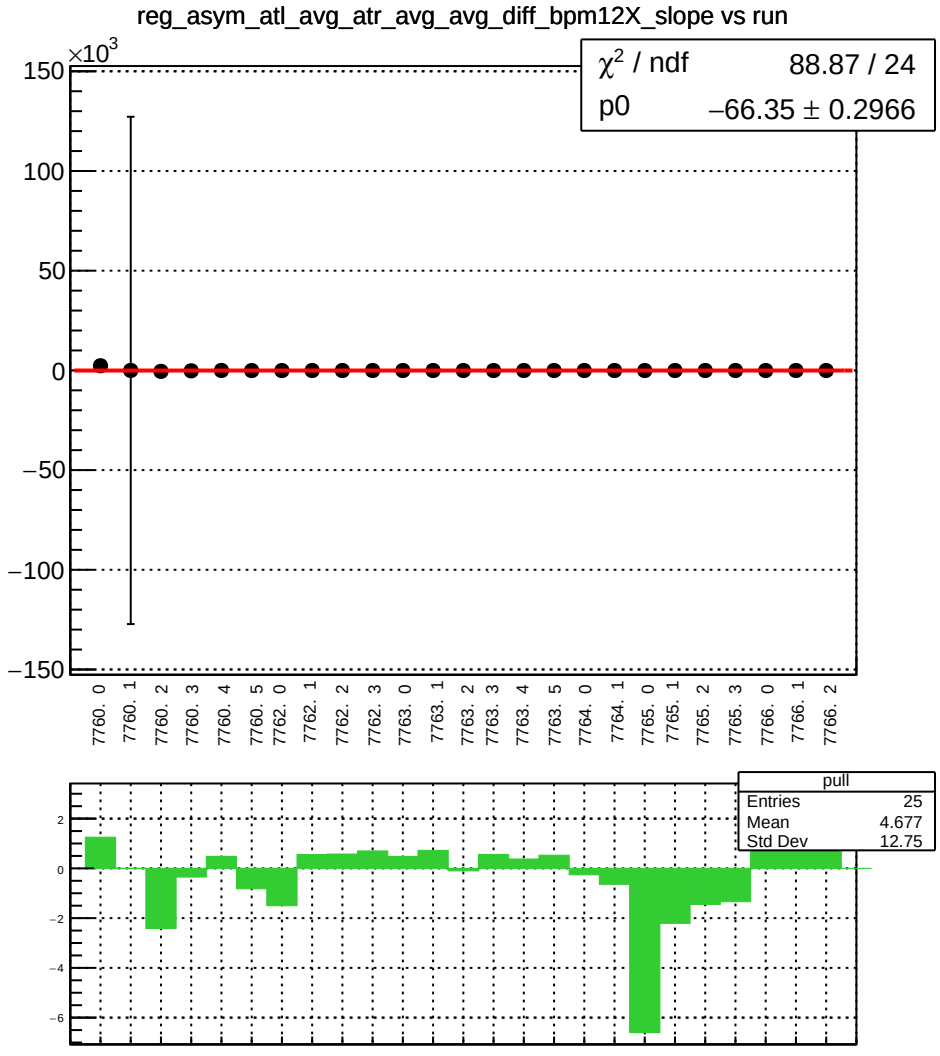

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
×10^3
χ^2 / ndf 13.19 / 23
p0 17.59 ± 9.612
40
20
0
−20
−40
−60
−80
−100
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 24
Mean 3.11
Std Dev 4.183
2
1.5
1
0.5
0
−0.5
−1
−1.5

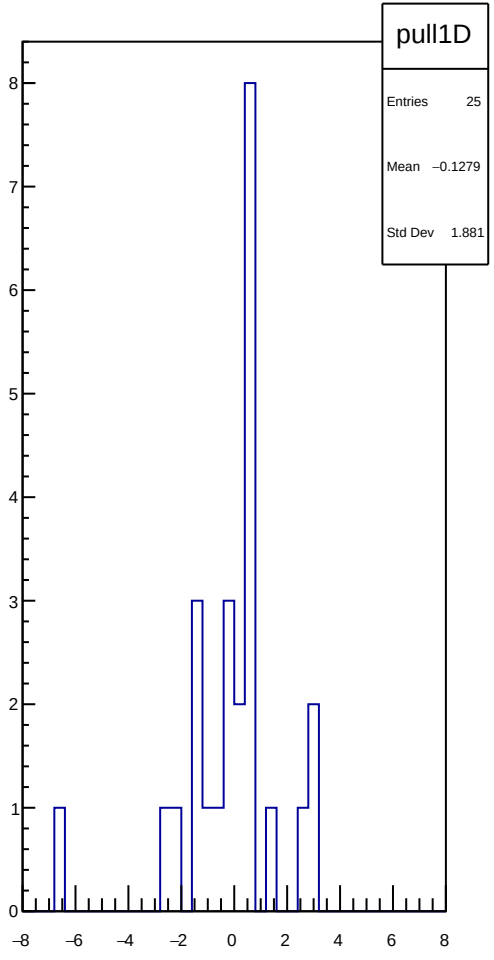

pull1D
Entries 24
Mean 0.0302
Std Dev 0.7408
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

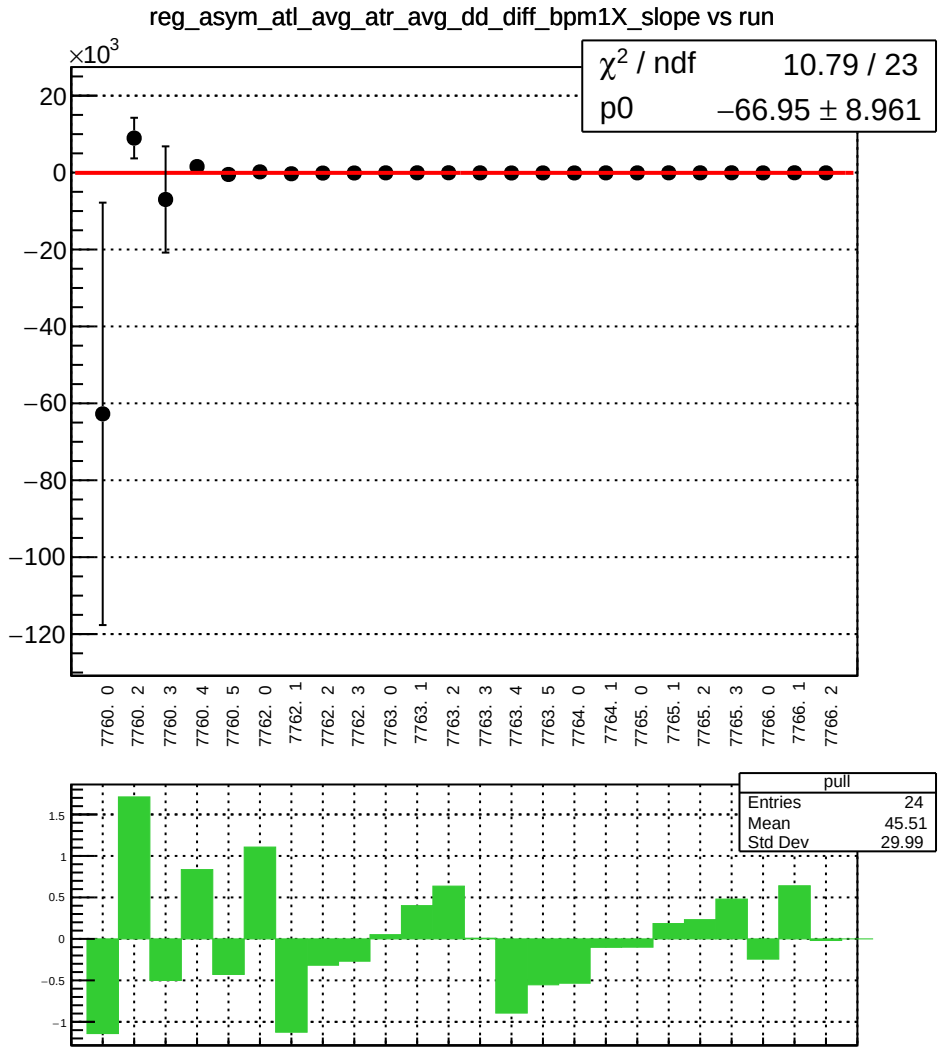

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
×10^3
χ^2 / ndf 10.96 / 23
p0 58.72 ± 8.297
20
0
−20
−40
−60
−80
−100
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 24
Mean −13.49
Std Dev 27.91
1.5
1
0.5
0
−0.5
−1

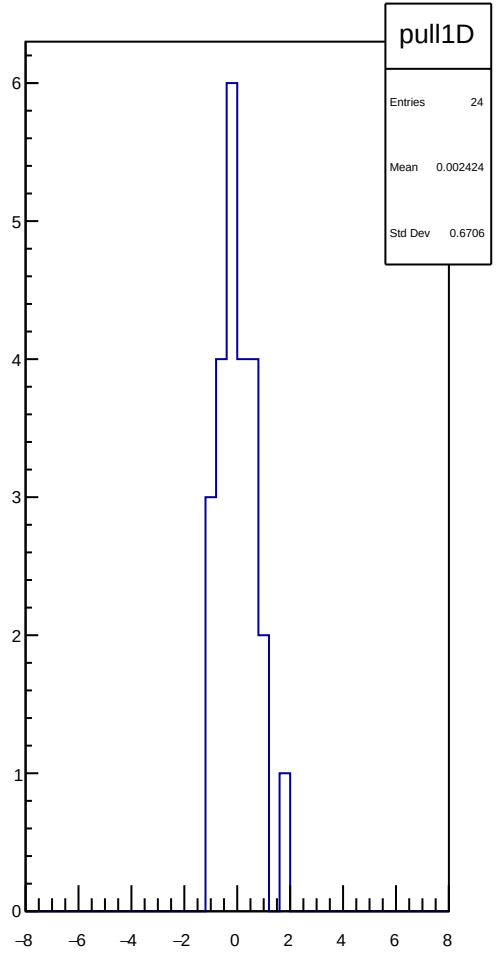

pull1D
Entries 24
Mean 0.01466
Std Dev 0.6756
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

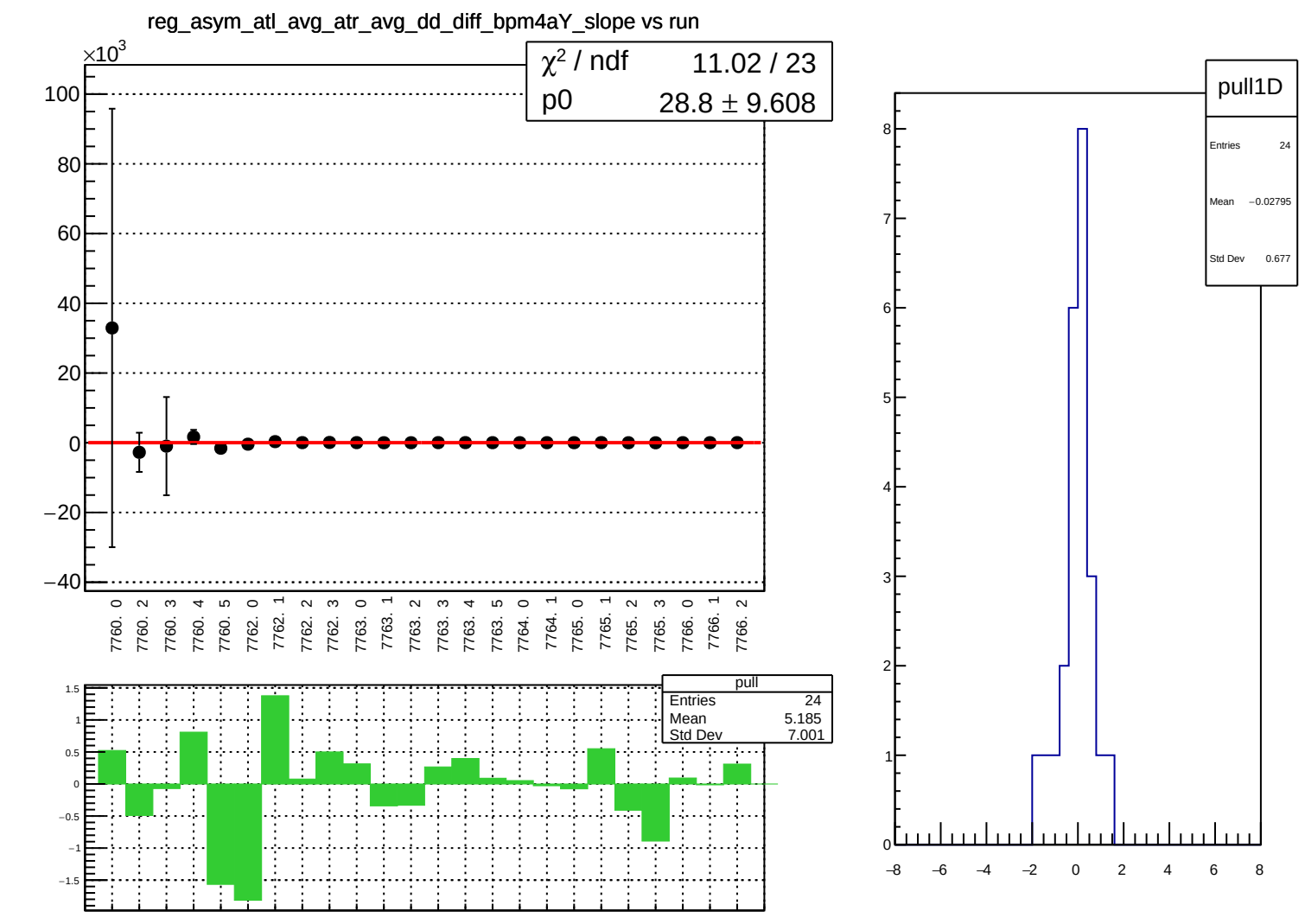

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
×10^3
χ^2 / ndf 14.64 / 23
p0 11.09 ± 10.82
120
100
80
60
40
20
0
−20
−40
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 24
Mean 4.413
Std Dev 4.89
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.05567
Std Dev 0.7789
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

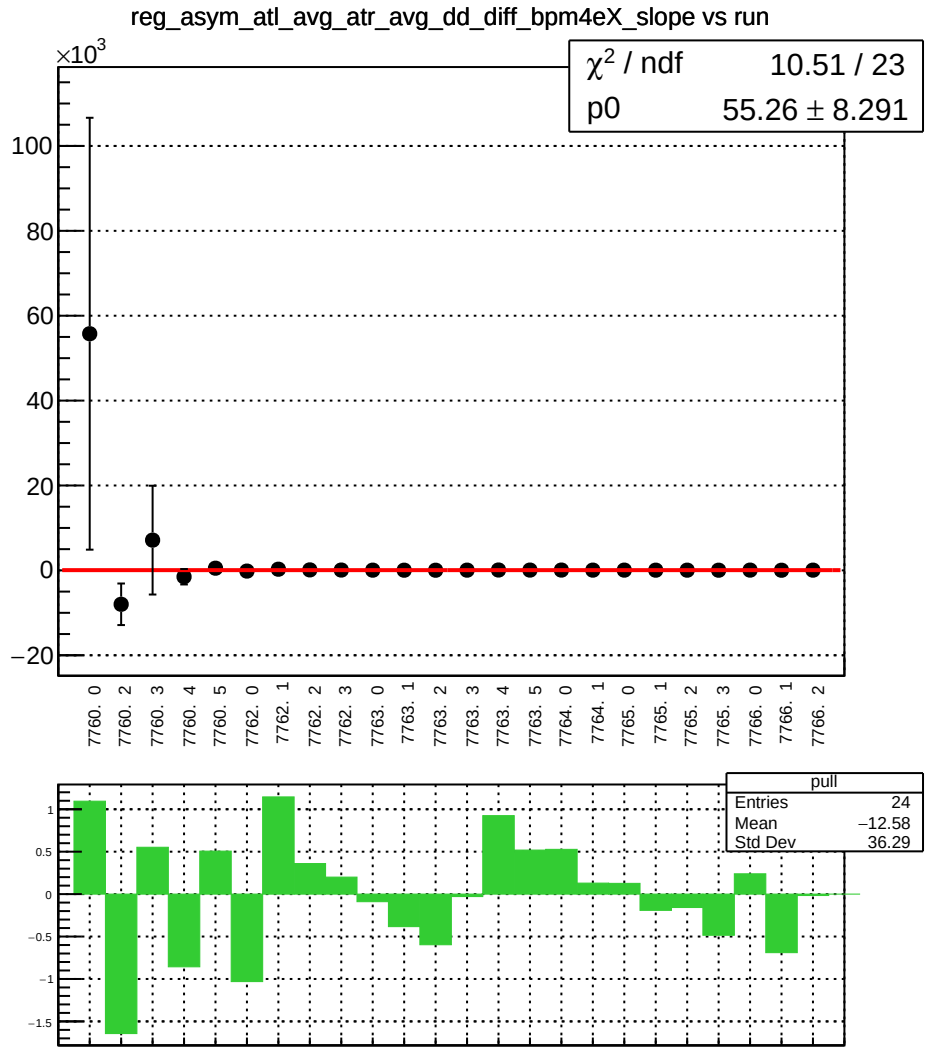

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
×10^3
χ² / ndf 88.87 / 24
p0 −66.35 ± 0.2966
150
100
50
0
−50
−100
−150
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 4.677
Std Dev 12.75
2
0
−2
−4
−6

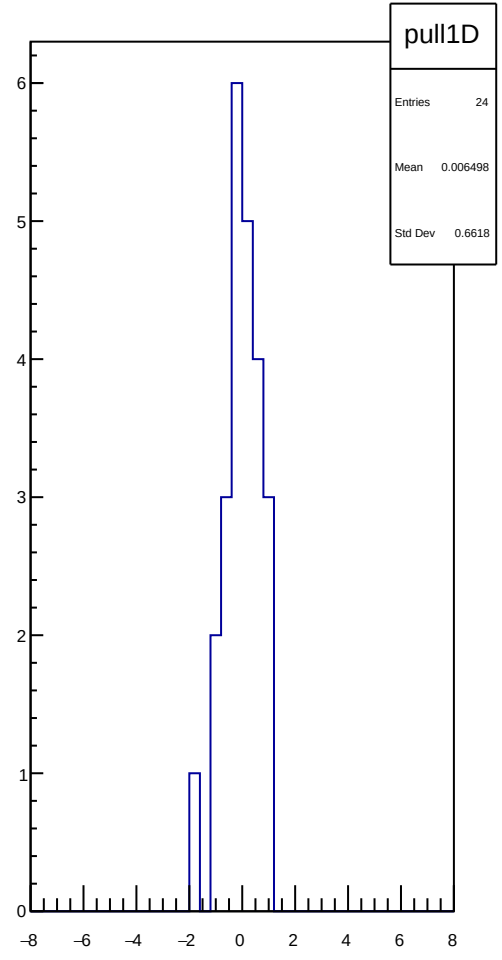

pull1D
Entries 25
Mean −0.1279
Std Dev 1.881
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

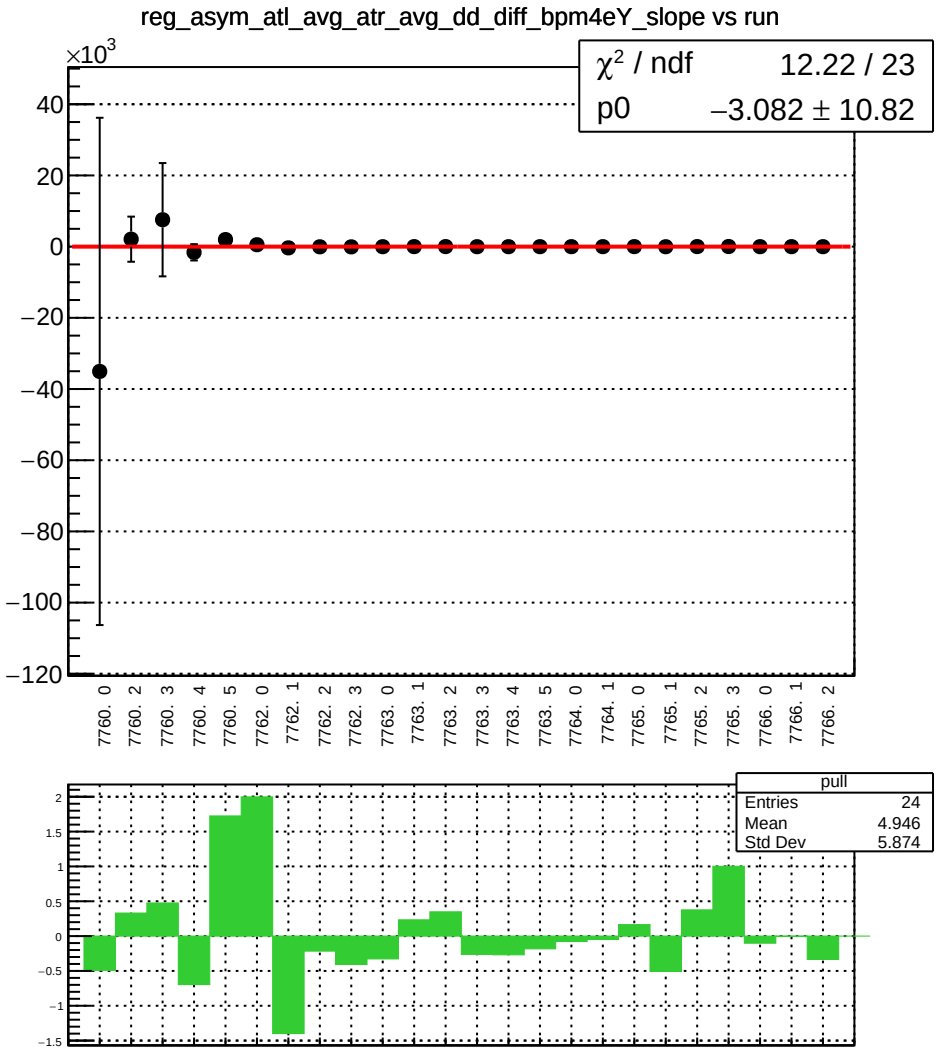

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
×10^3
χ² / ndf 10.79 / 23
p0 −66.95 ± 8.961
20
0
−20
−40
−60
−80
−100
−120
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 24
Mean 45.51
Std Dev 29.99
1.5
1
0.5
0
−0.5
−1

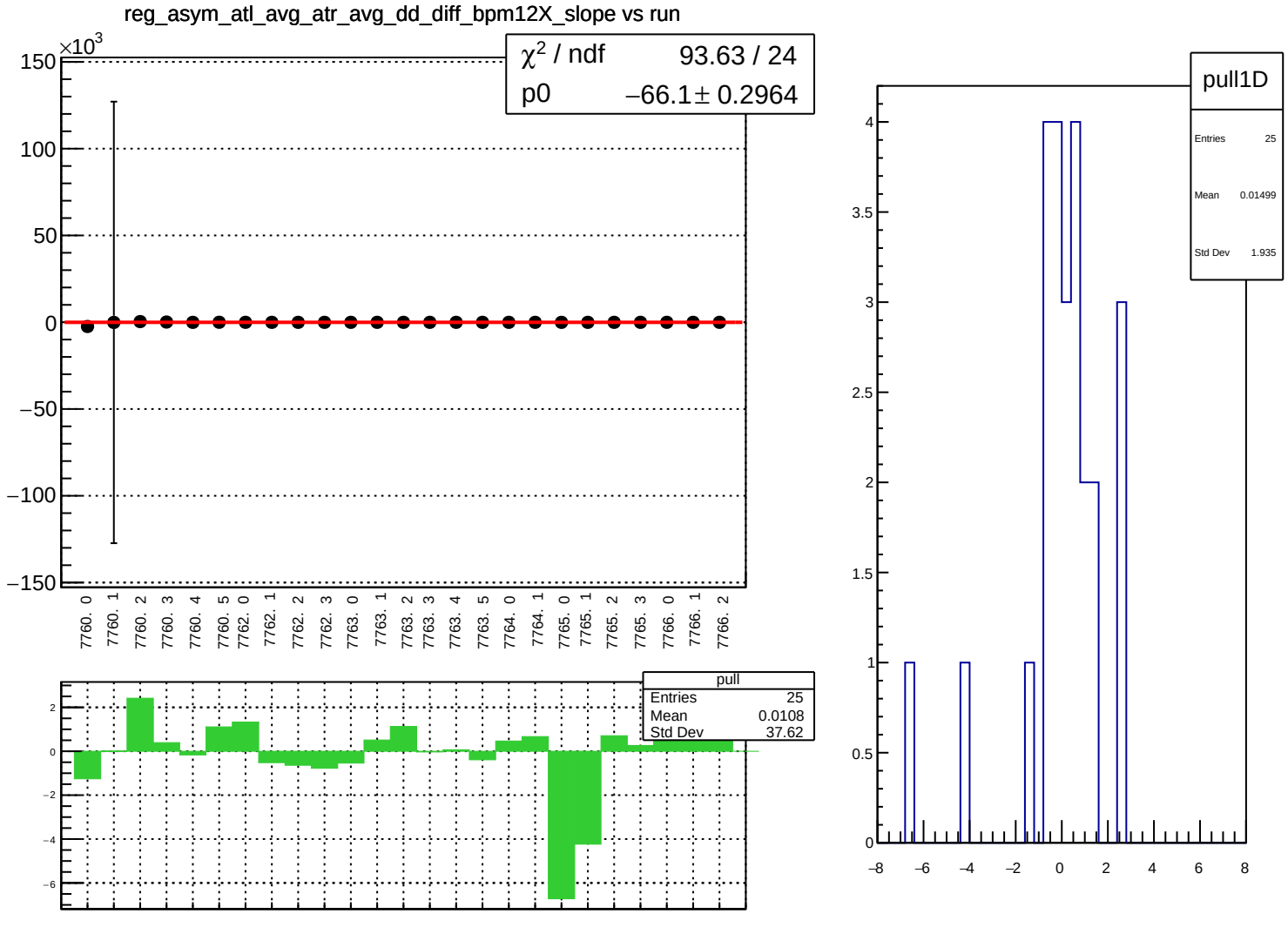

pull1D
Entries 24
Mean 0.002424
Std Dev 0.6706
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

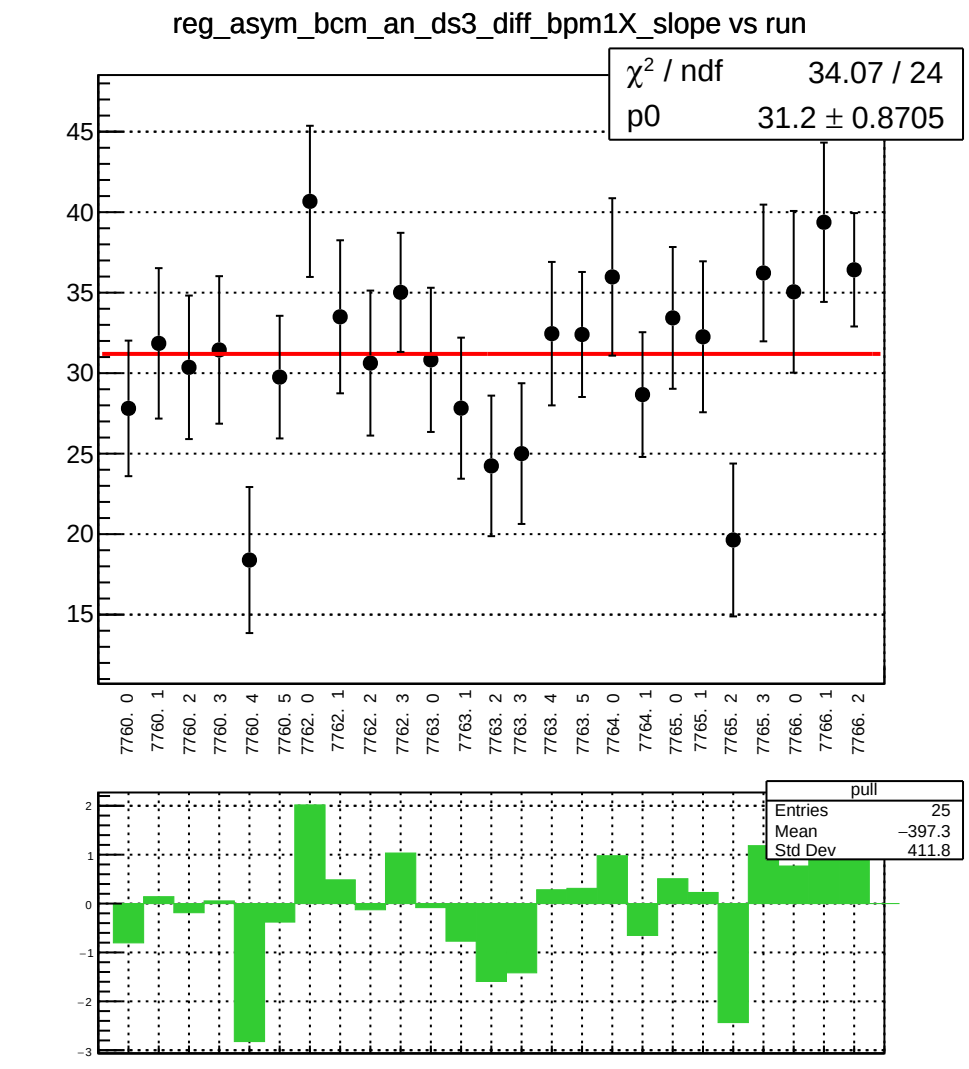

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
×10^3
χ² / ndf 11.02 / 23
p0 28.8 ± 9.608
100
80
60
40
20
0
−20
−40
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 24
Mean 5.185
Std Dev 7.001
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.02795
Std Dev 0.677
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

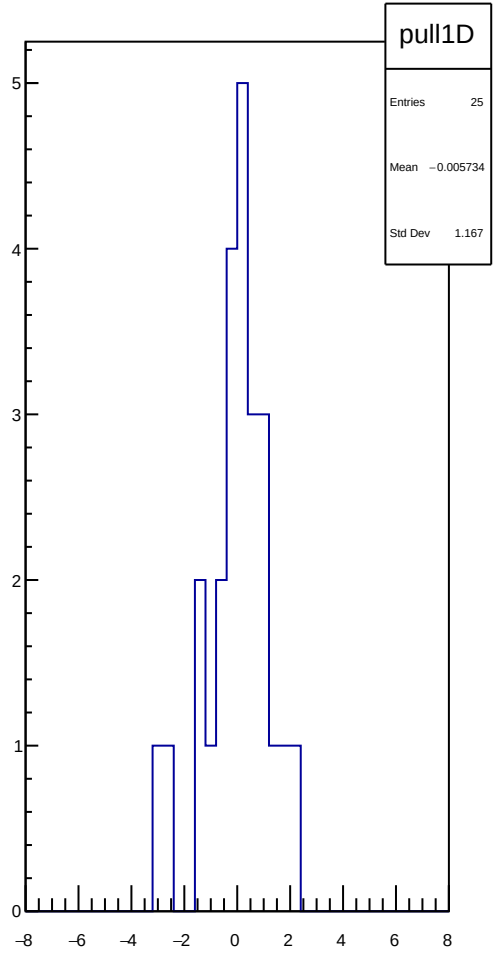

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
×10^3
χ^2 / ndf 10.51 / 23
p0 55.26 ± 8.291
100
80
60
40
20
0
−20
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 24
Mean −12.58
Std Dev 36.29
1
0.5
0
−0.5
−1
−1.5

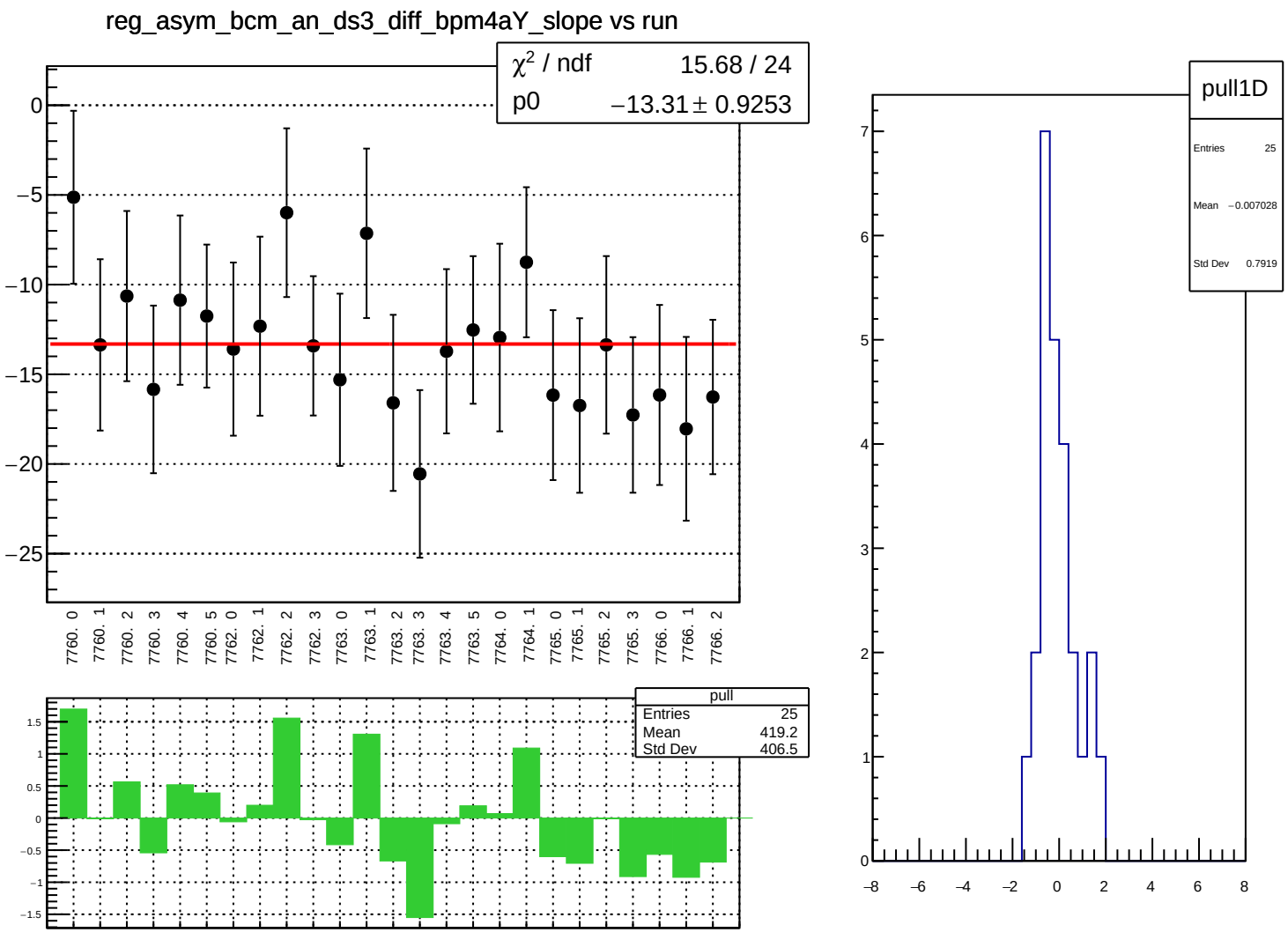

pull1D
Entries 24
Mean 0.006498
Std Dev 0.6618
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

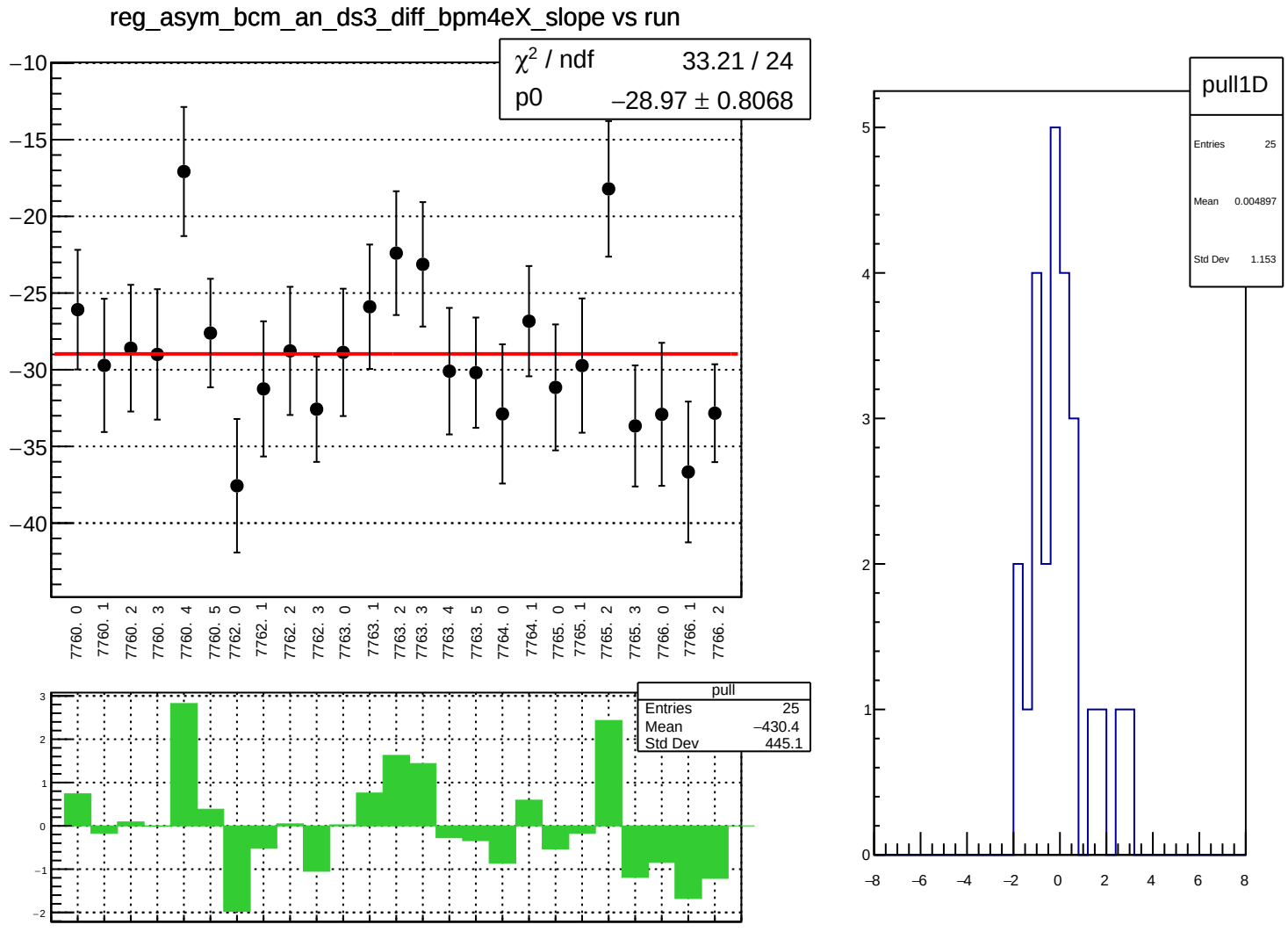

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
×10^3
χ² / ndf 12.22 / 23
p0 −3.082 ± 10.82
40
20
0
−20
−40
−60
−80
−100
−120
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 24
Mean 4.946
Std Dev 5.874
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.05523
Std Dev 0.7113
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

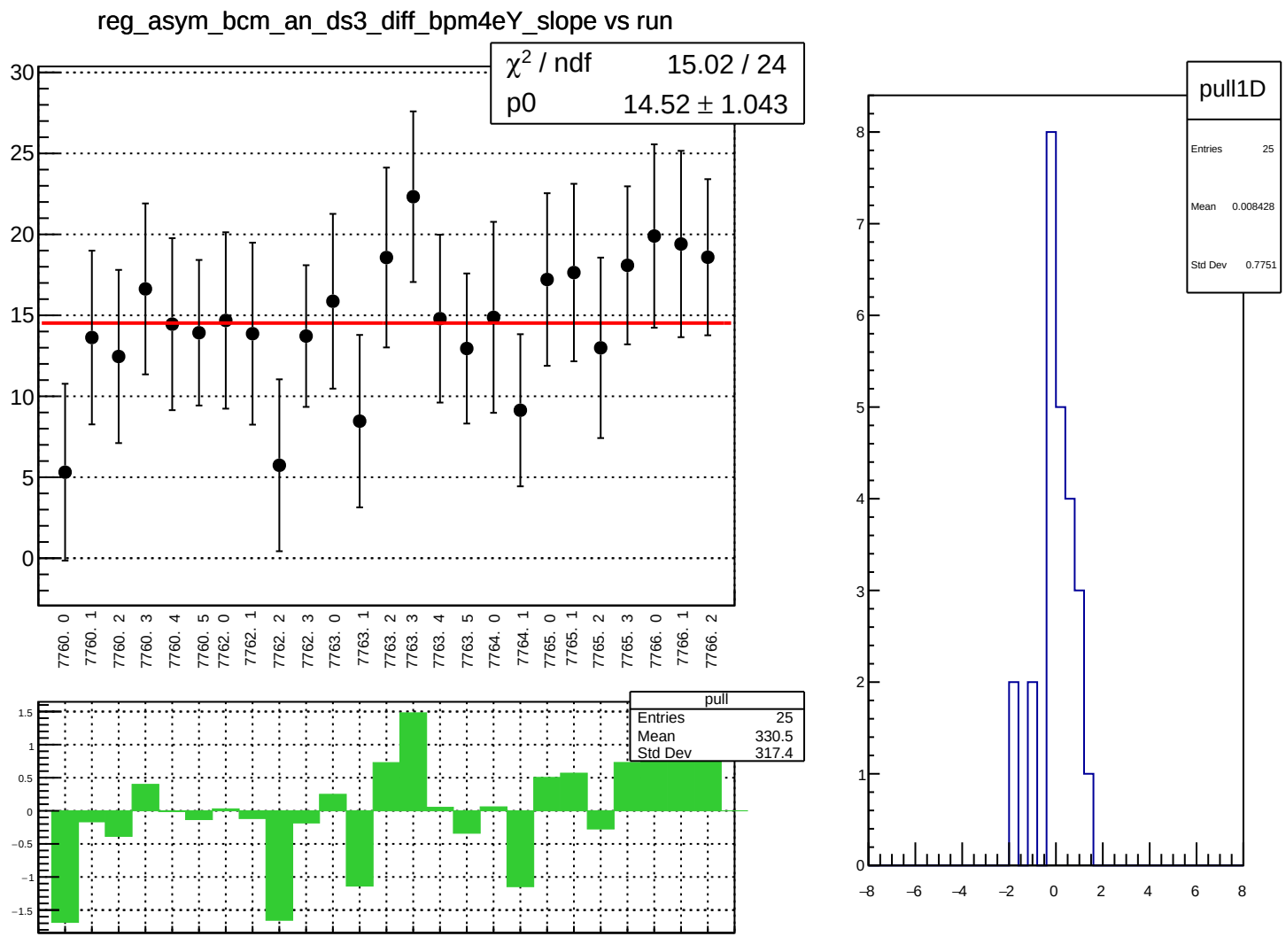

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
×10^3
χ² / ndf 93.63 / 24
p0 −66.1 ± 0.2964
150
100
50
0
−50
−100
−150
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 0.0108
Std Dev 37.62
2
0
−2
−4
−6
pull1D
Entries 25
Mean 0.01499
Std Dev 1.935
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

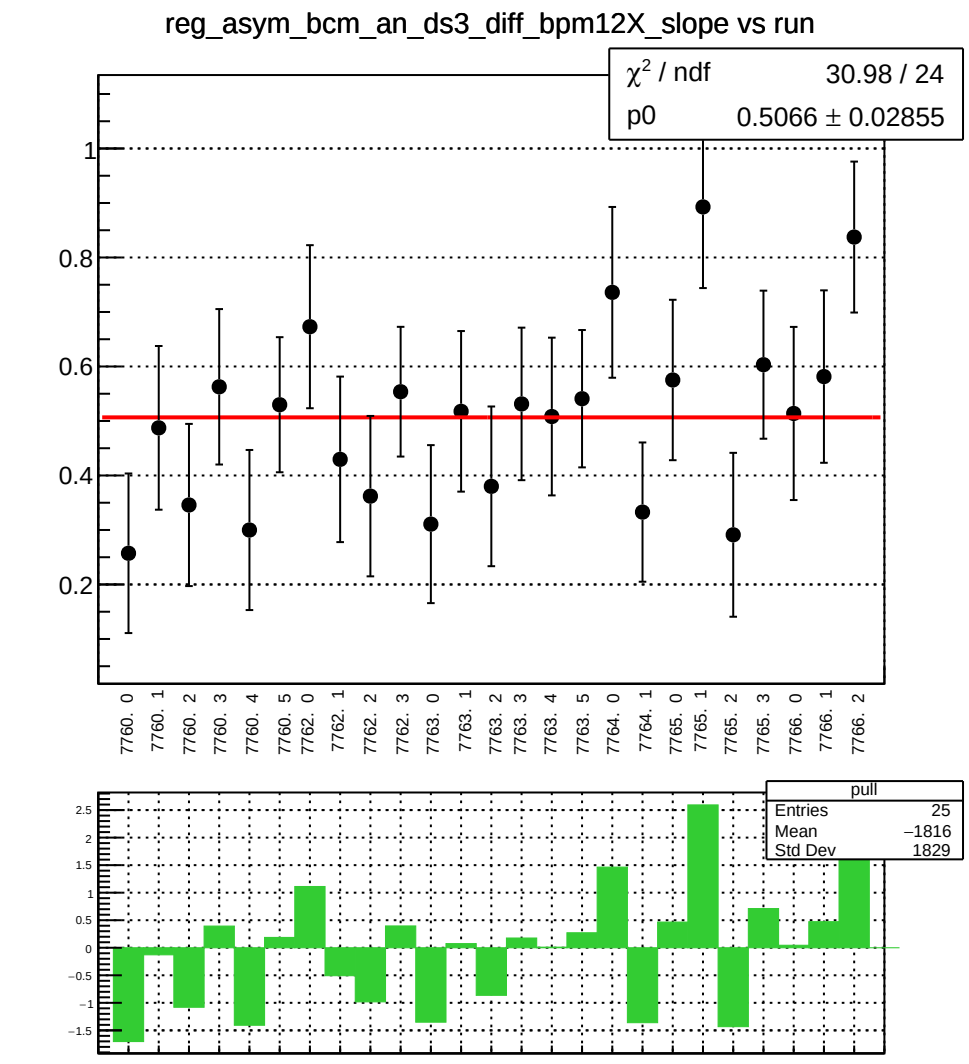

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 34.07 / 24
p0 31.2 ± 0.8705
45
40
35
30
25
20
15
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −397.3
Std Dev 411.8
2
1
0
−1
−2
−3

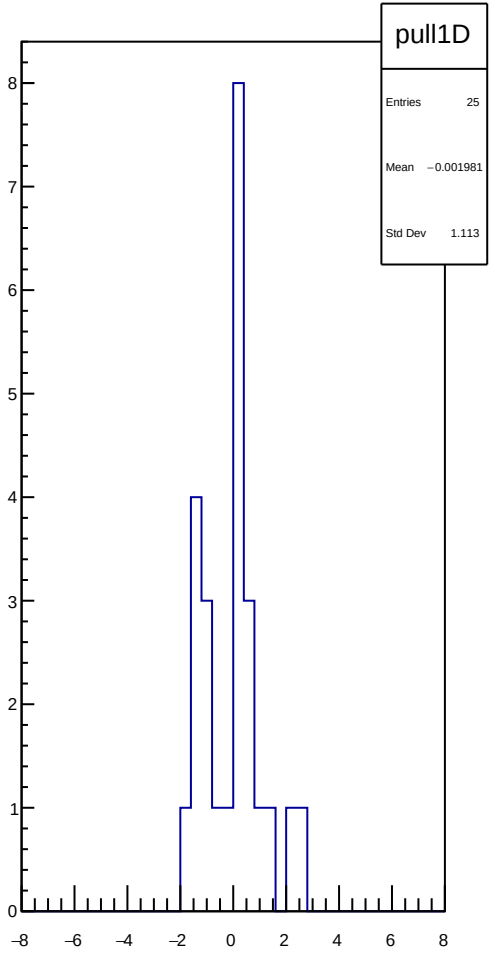

pull1D
Entries 25
Mean −0.005734
Std Dev 1.167
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

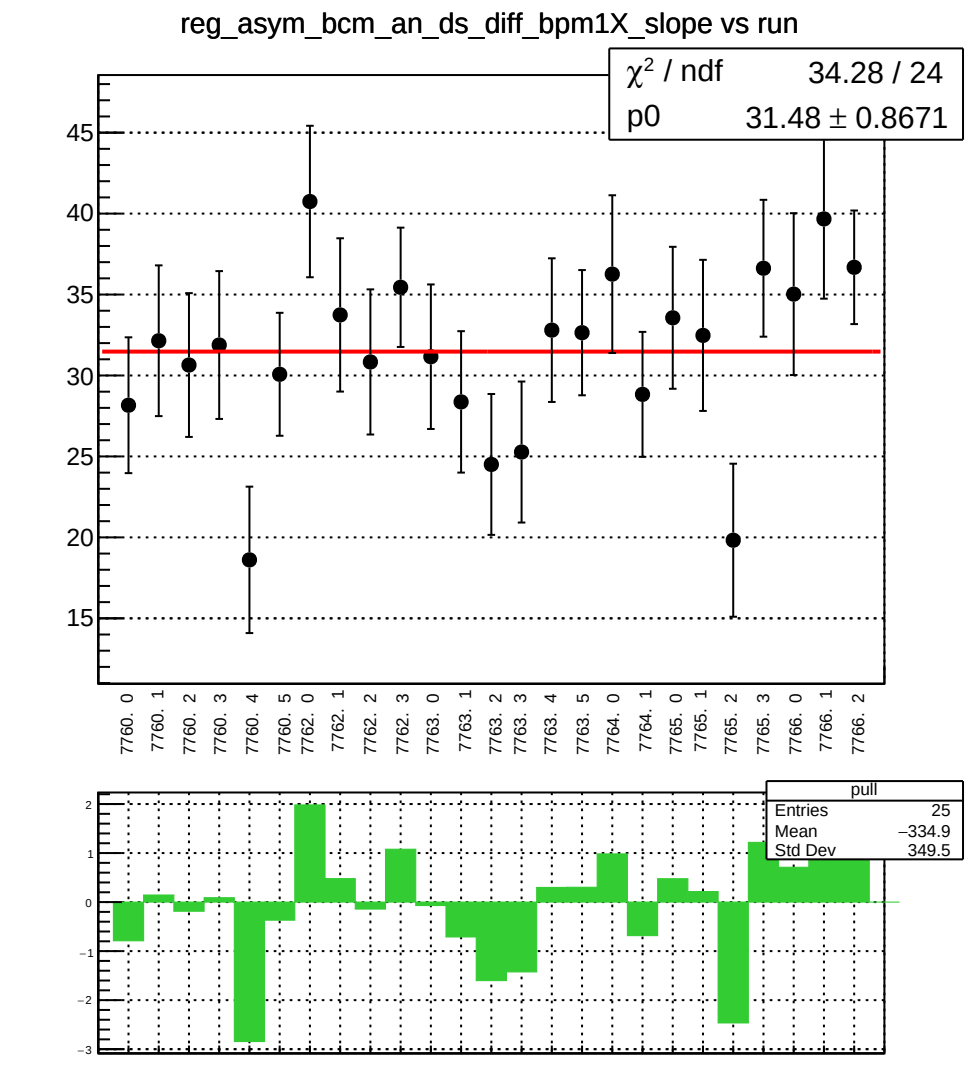

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 15.68 / 24
p0 −13.31 ± 0.9253
0
−5
−10
−15
−20
−25
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 419.2
Std Dev 406.5
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 25
Mean −0.007028
Std Dev 0.7919
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

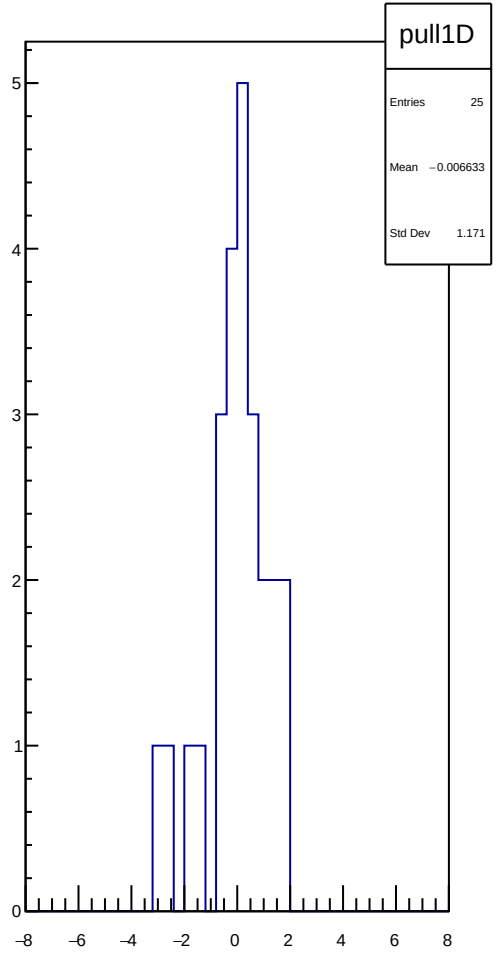

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 33.21 / 24
p0 −28.97 ± 0.8068
pull
Entries 25
Mean −430.4
Std Dev 445.1
pull1D
Entries 25
Mean 0.004897
Std Dev 1.153

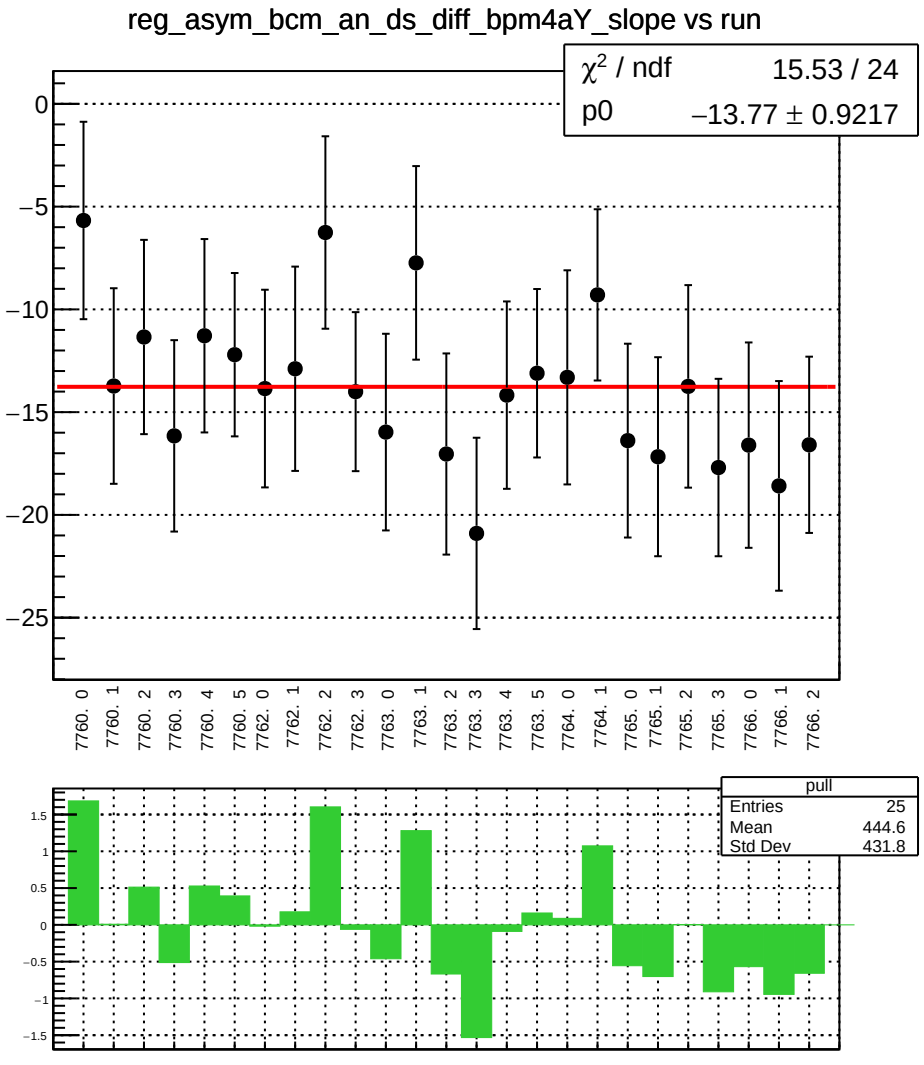

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 15.02 / 24
p0 14.52 ± 1.043
30
25
20
15
10
5
0
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 330.5
Std Dev 317.4
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 25
Mean 0.008428
Std Dev 0.7751
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

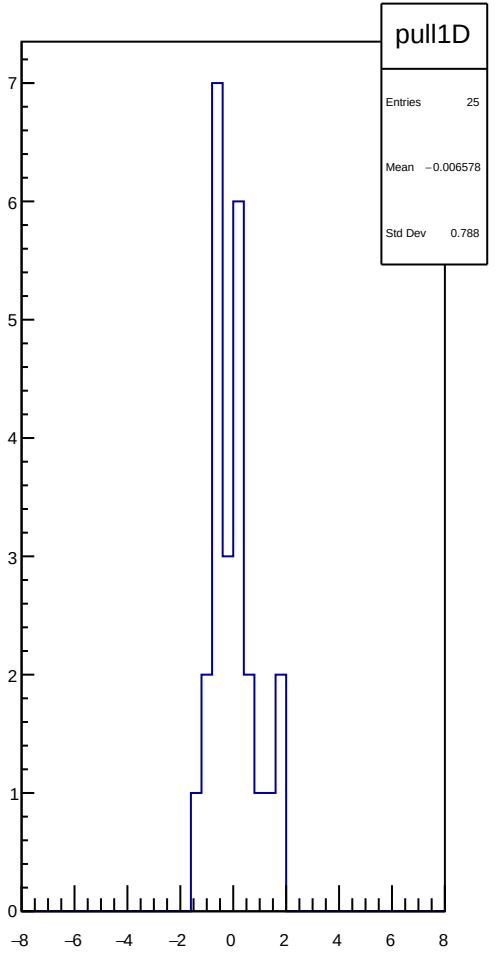

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 30.98 / 24
p0 0.5066 ± 0.02855
1
0.8
0.6
0.4
0.2
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −1816
Std Dev 1829
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

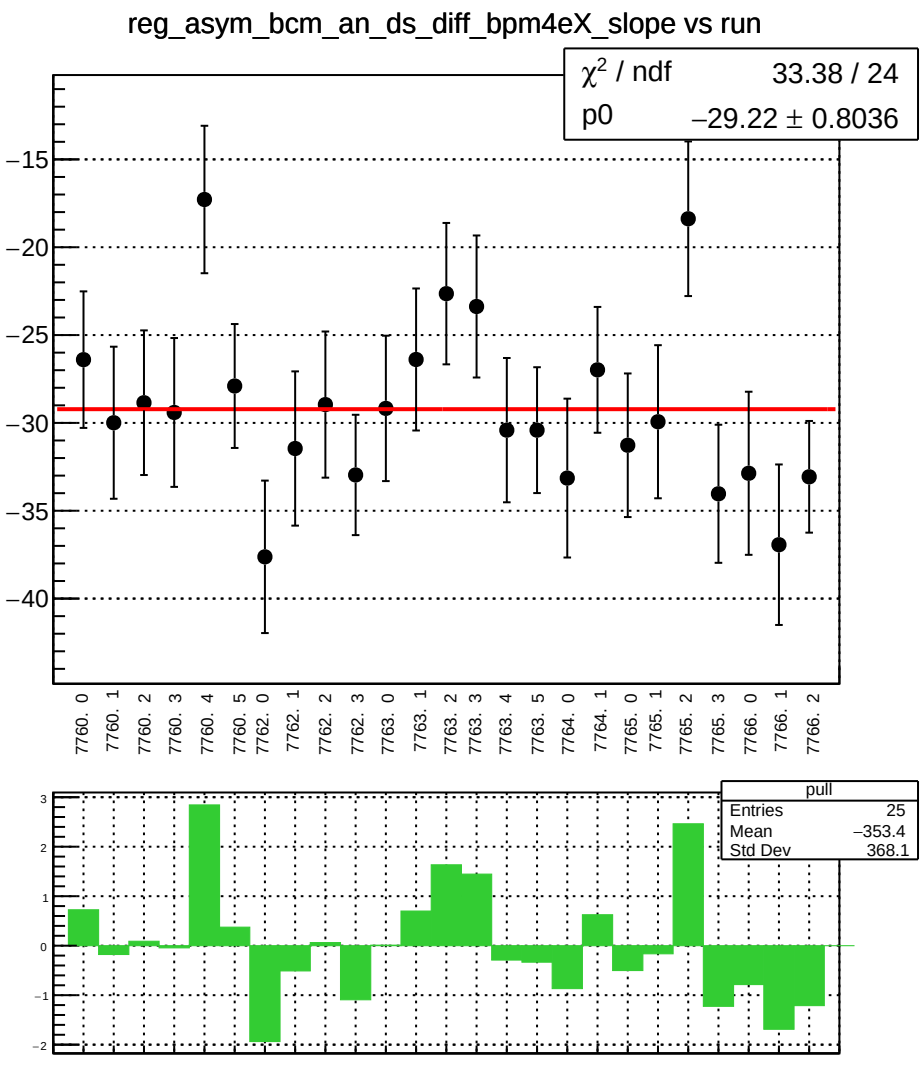

pull1D
Entries 25
Mean −0.001981
Std Dev 1.113
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

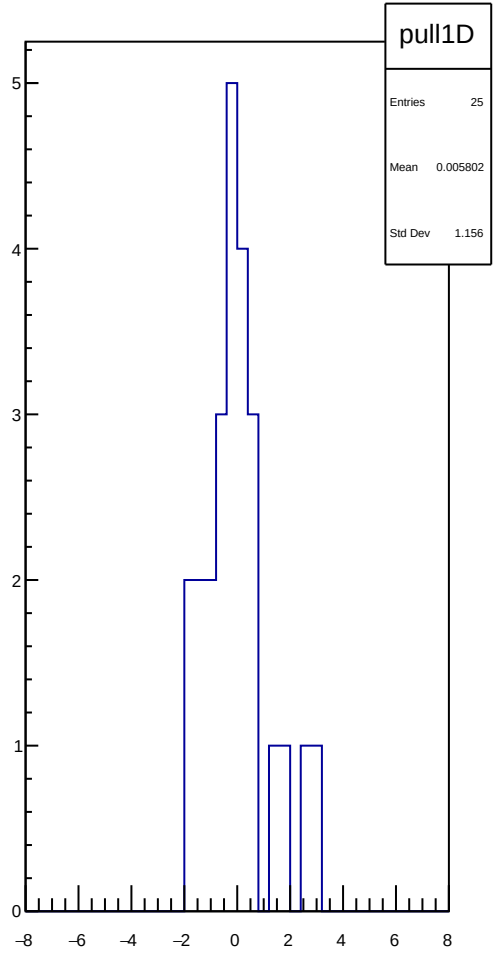

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 34.28 / 24
p0 31.48 ± 0.8671
45
40
35
30
25
20
15
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −334.9
Std Dev 349.5
2
1
0
−1
−2
−3

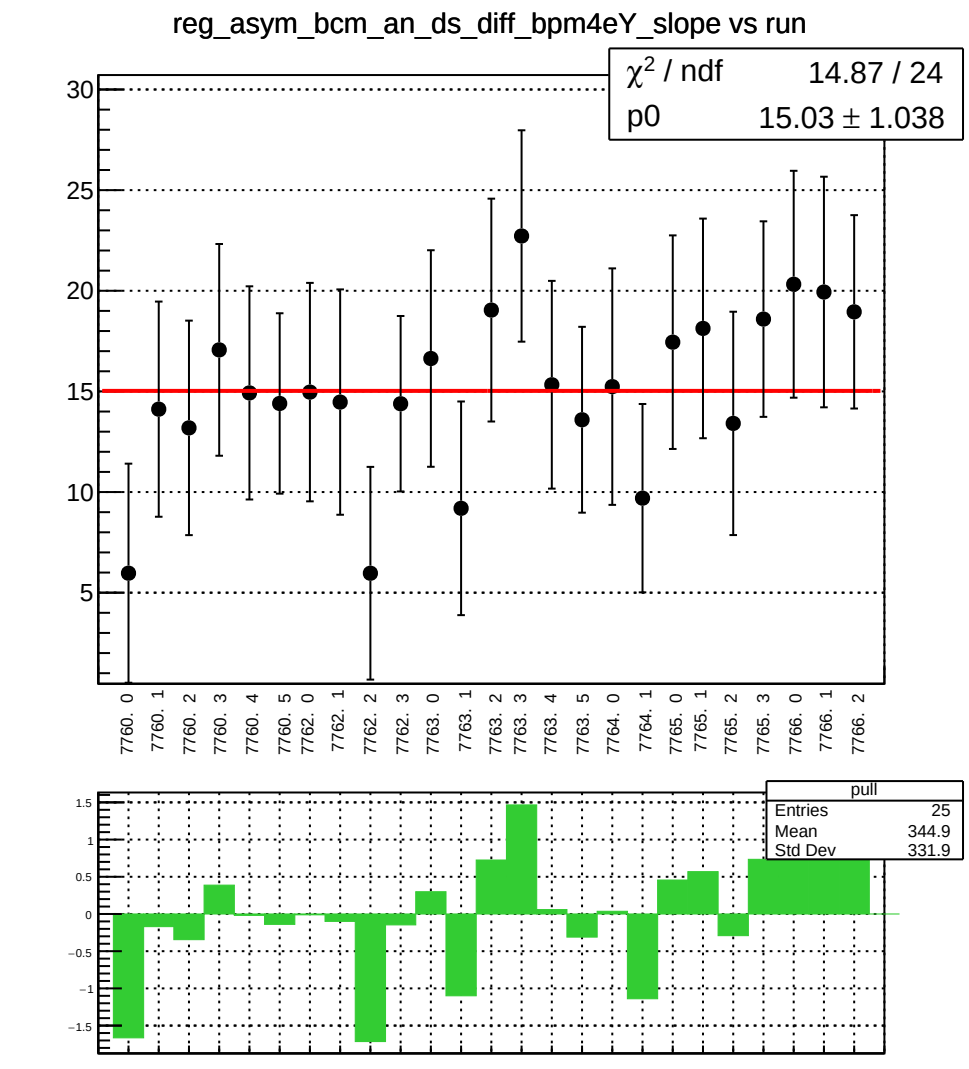

pull1D
Entries 25
Mean −0.006633
Std Dev 1.171
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

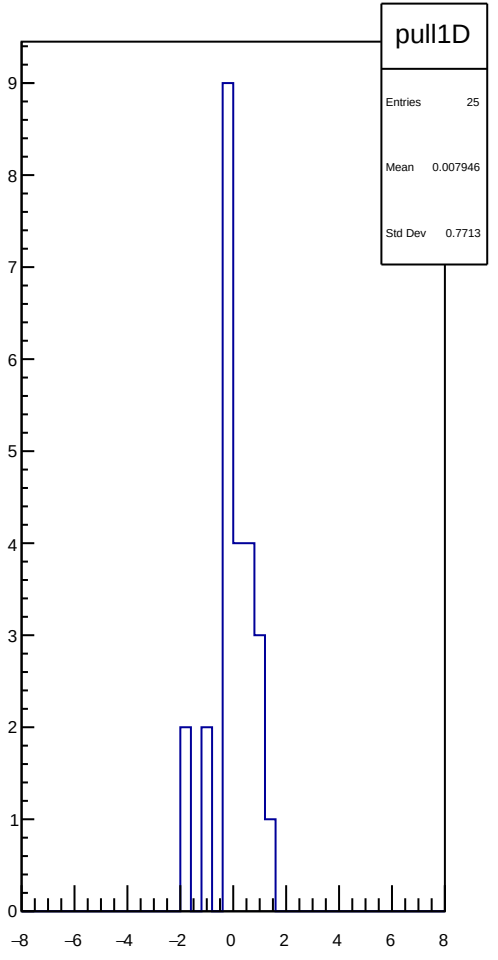

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 15.53 / 24
p0 −13.77 ± 0.9217
0
−5
−10
−15
−20
−25
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 444.6
Std Dev 431.8
1.5
1
0.5
0
−0.5
−1
−1.5

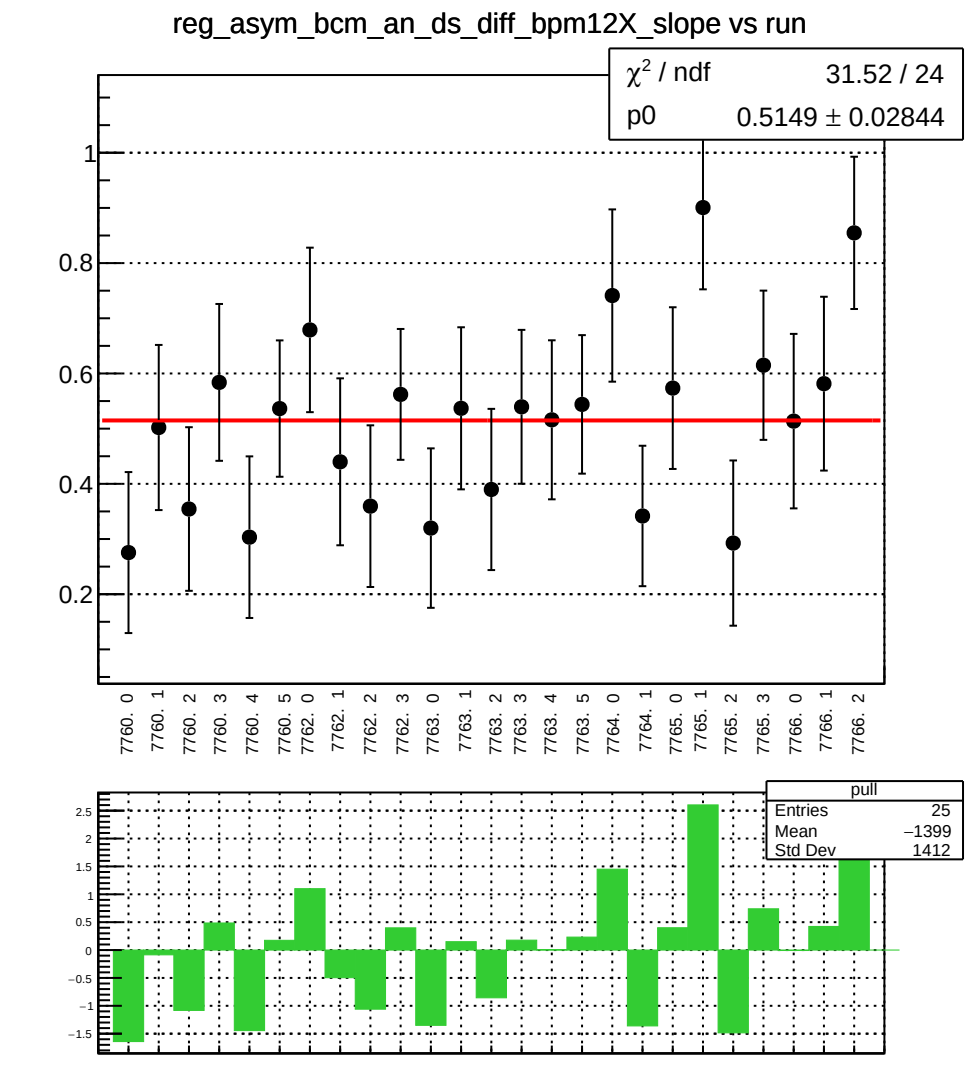

pull1D
Entries 25
Mean −0.006578
Std Dev 0.788
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

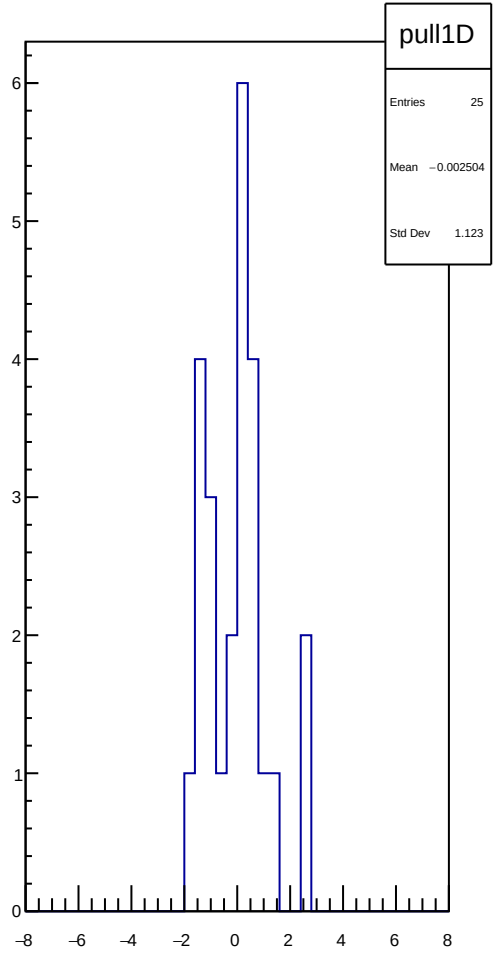

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 33.38 / 24
p0 −29.22 ± 0.8036
−15
−20
−25
−30
−35
−40
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −353.4
Std Dev 368.1
3
2
1
0
−1
−2

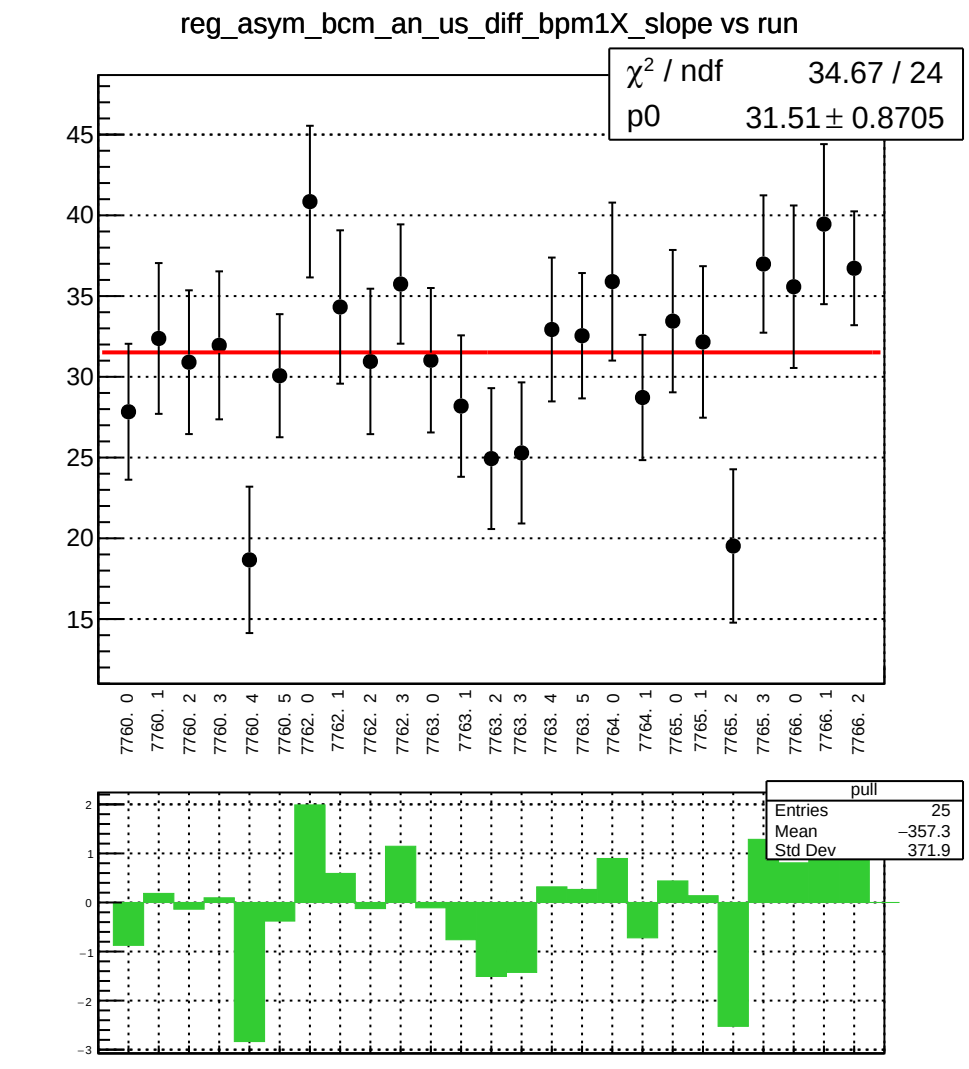

pull1D
Entries 25
Mean 0.005802
Std Dev 1.156
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

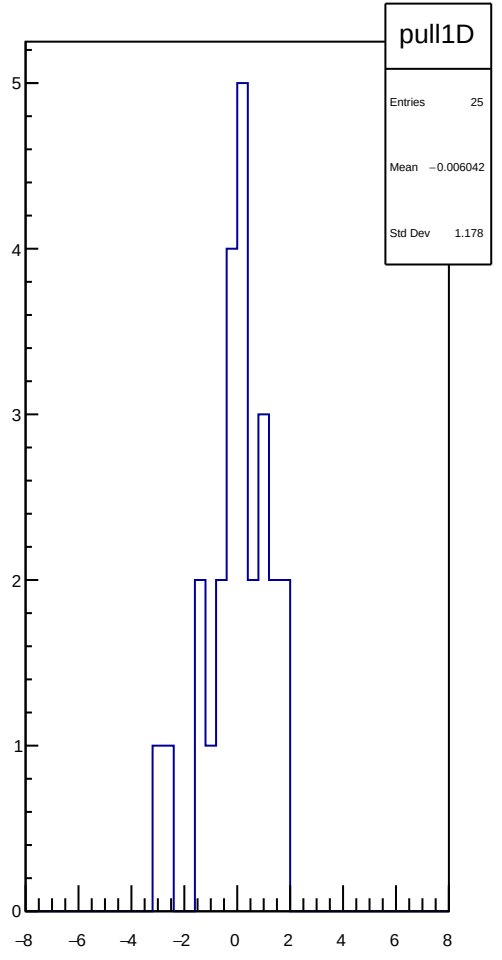

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 14.87 / 24
p0 15.03 ± 1.038
30
25
20
15
10
5
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 344.9
Std Dev 331.9
1.5
1
0.5
0
−0.5
−1
−1.5

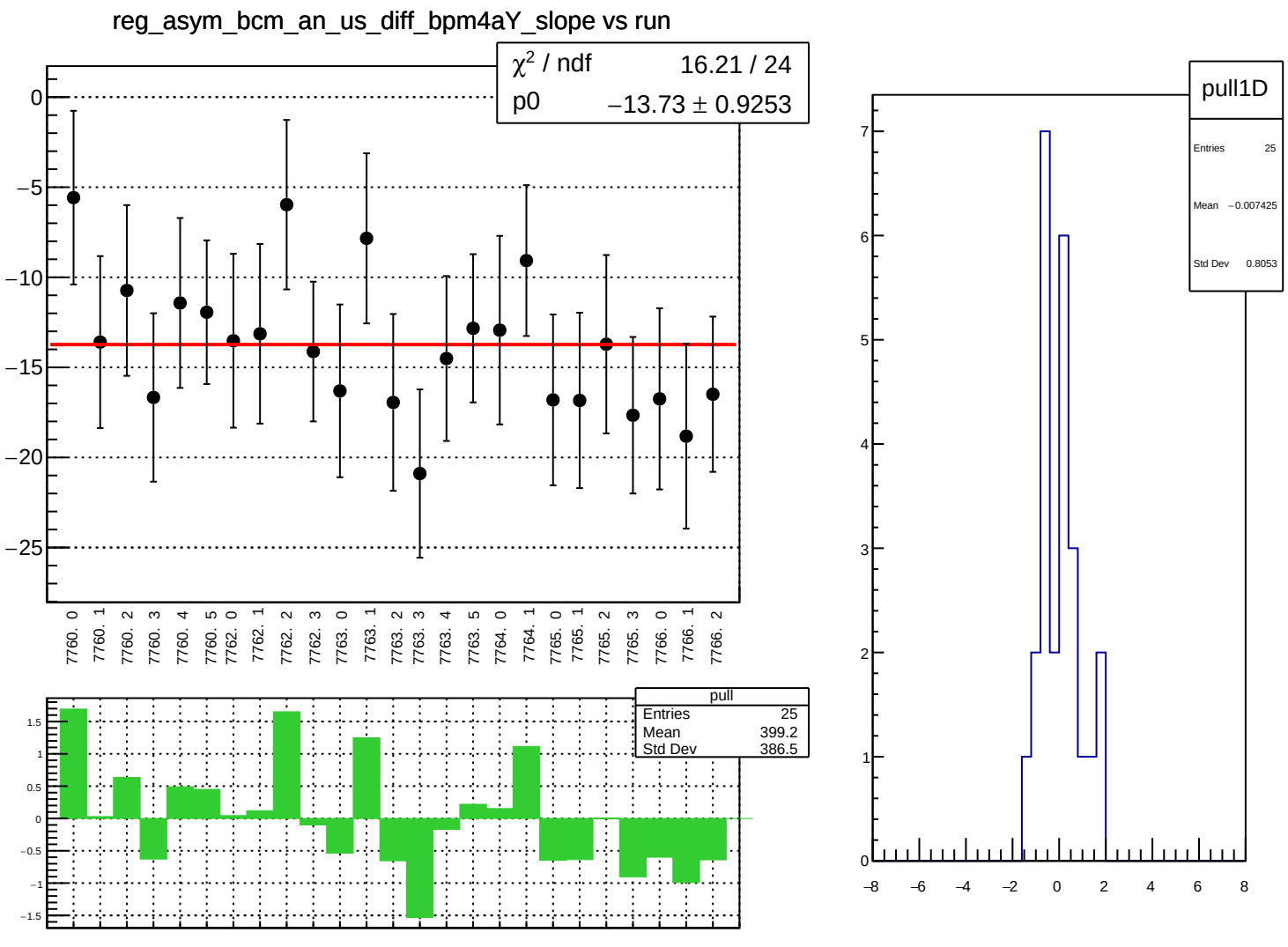

pull1D
Entries 25
Mean 0.007946
Std Dev 0.7713
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

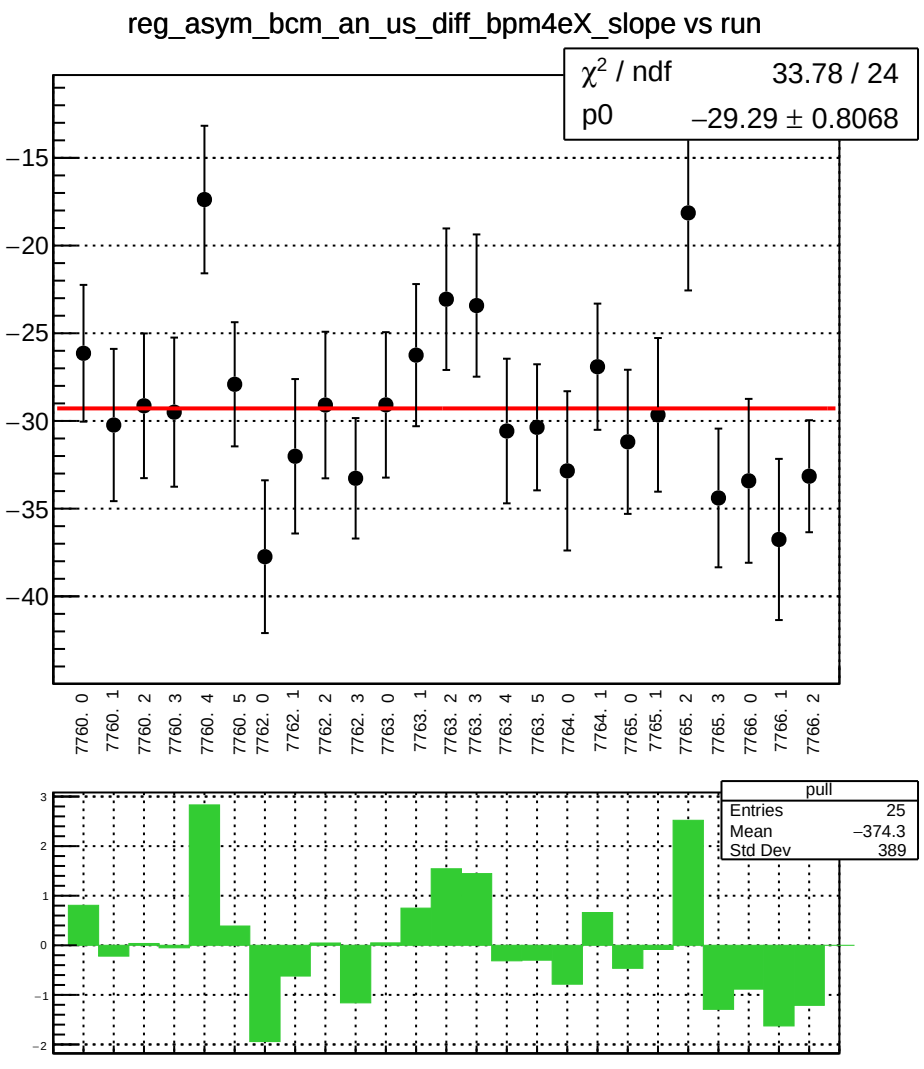

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 31.52 / 24
p0 0.5149 ± 0.02844
1
0.8
0.6
0.4
0.2
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −1399
Std Dev 1412
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

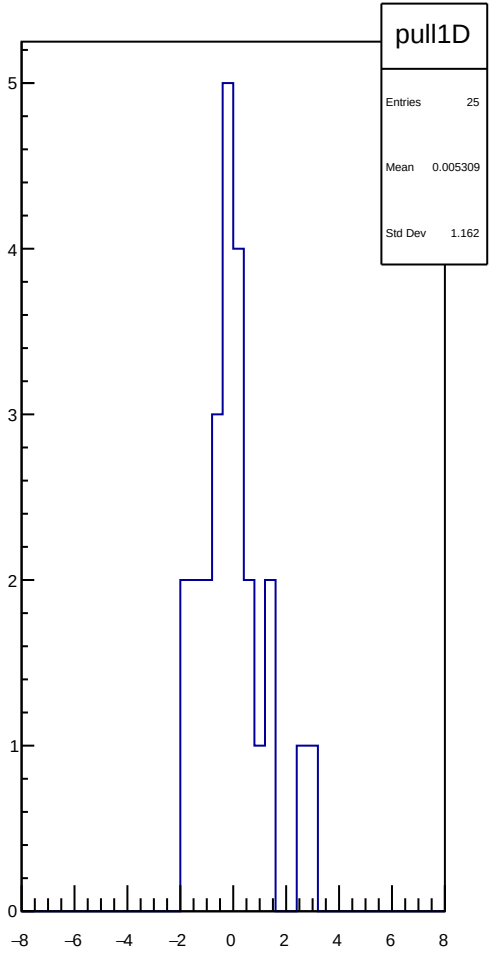

pull1D
Entries 25
Mean −0.002504
Std Dev 1.123
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

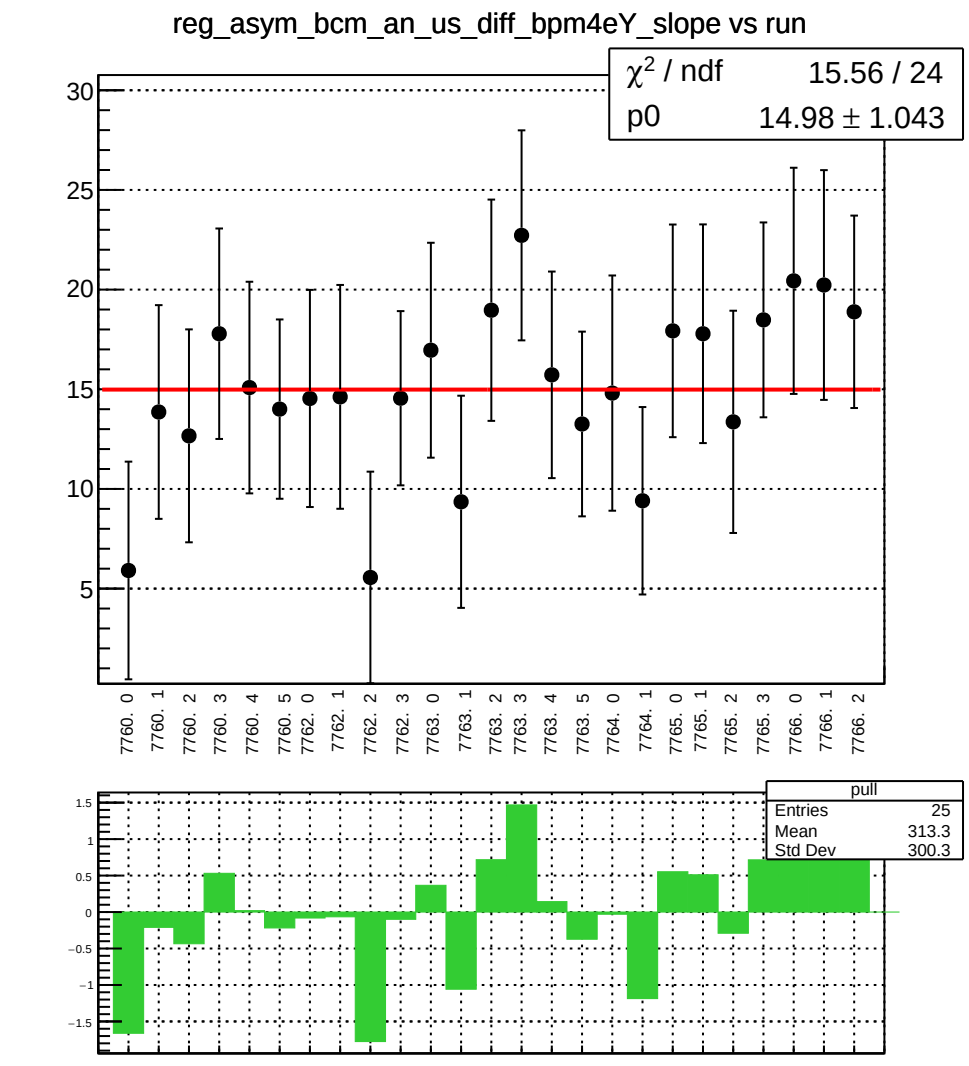

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 34.67 / 24
p0 31.51 ± 0.8705
45
40
35
30
25
20
15
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −357.3
Std Dev 371.9
2
1
0
−1
−2
−3

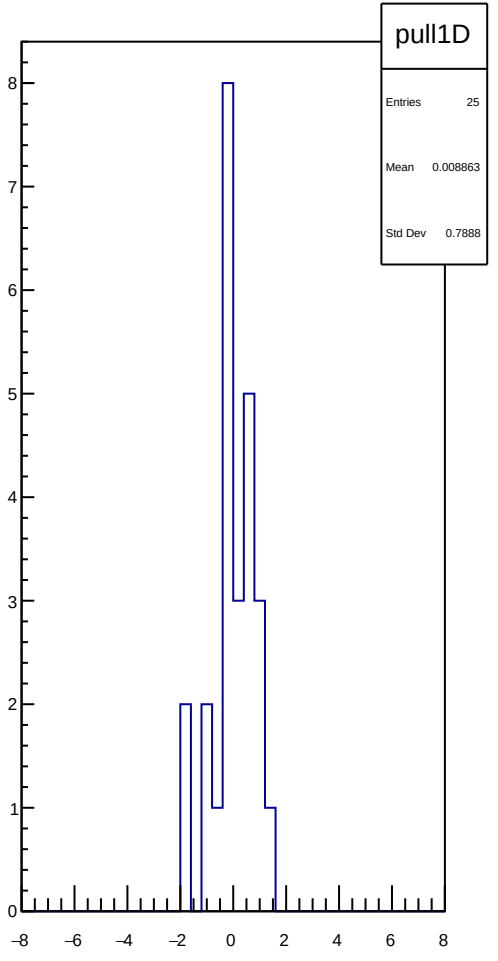

pull1D
Entries 25
Mean −0.006042
Std Dev 1.178
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

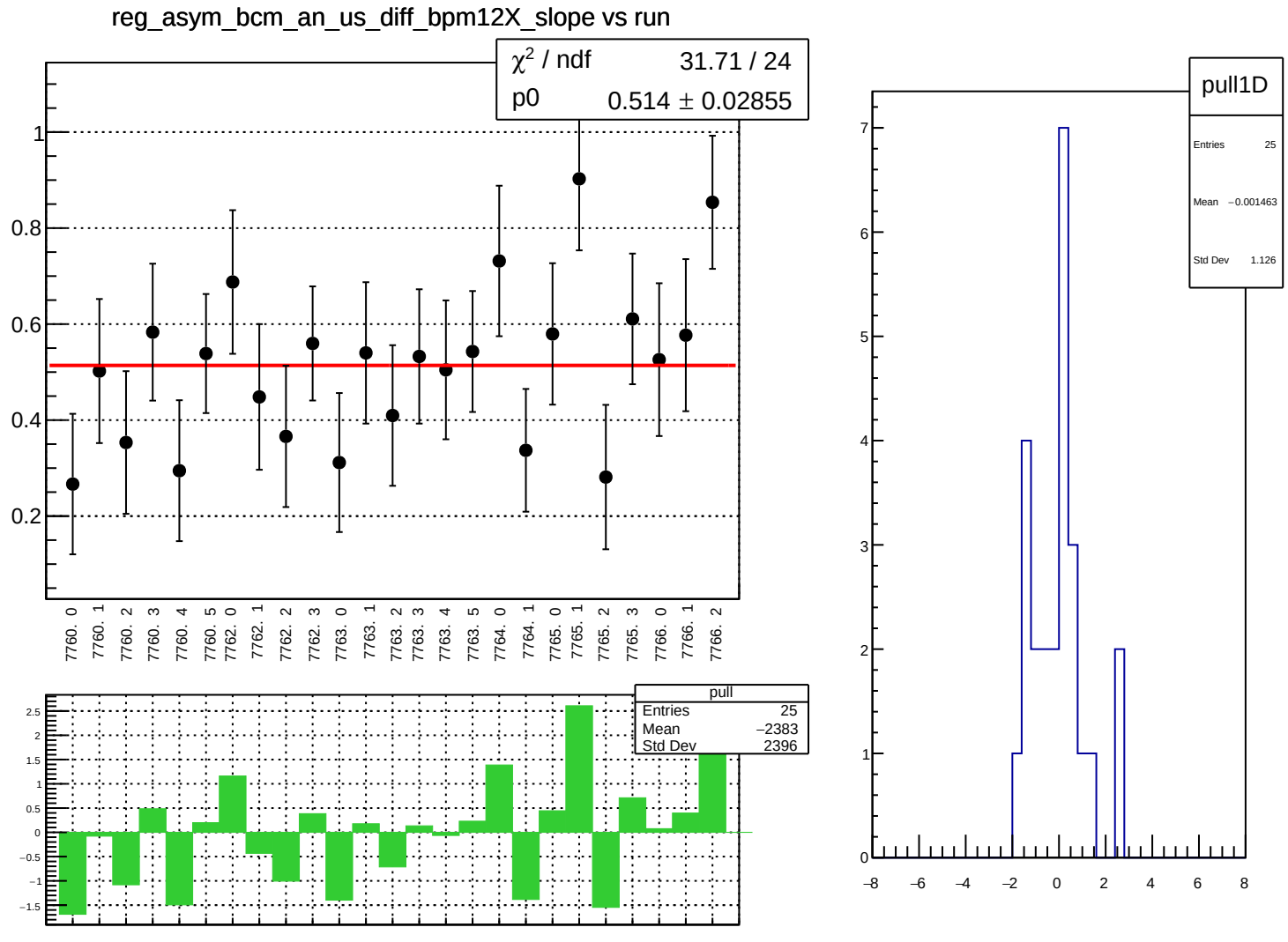

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 16.21 / 24
p0 −13.73 ± 0.9253
0
−5
−10
−15
−20
−25
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 399.2
Std Dev 386.5
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 25
Mean −0.007425
Std Dev 0.8053
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

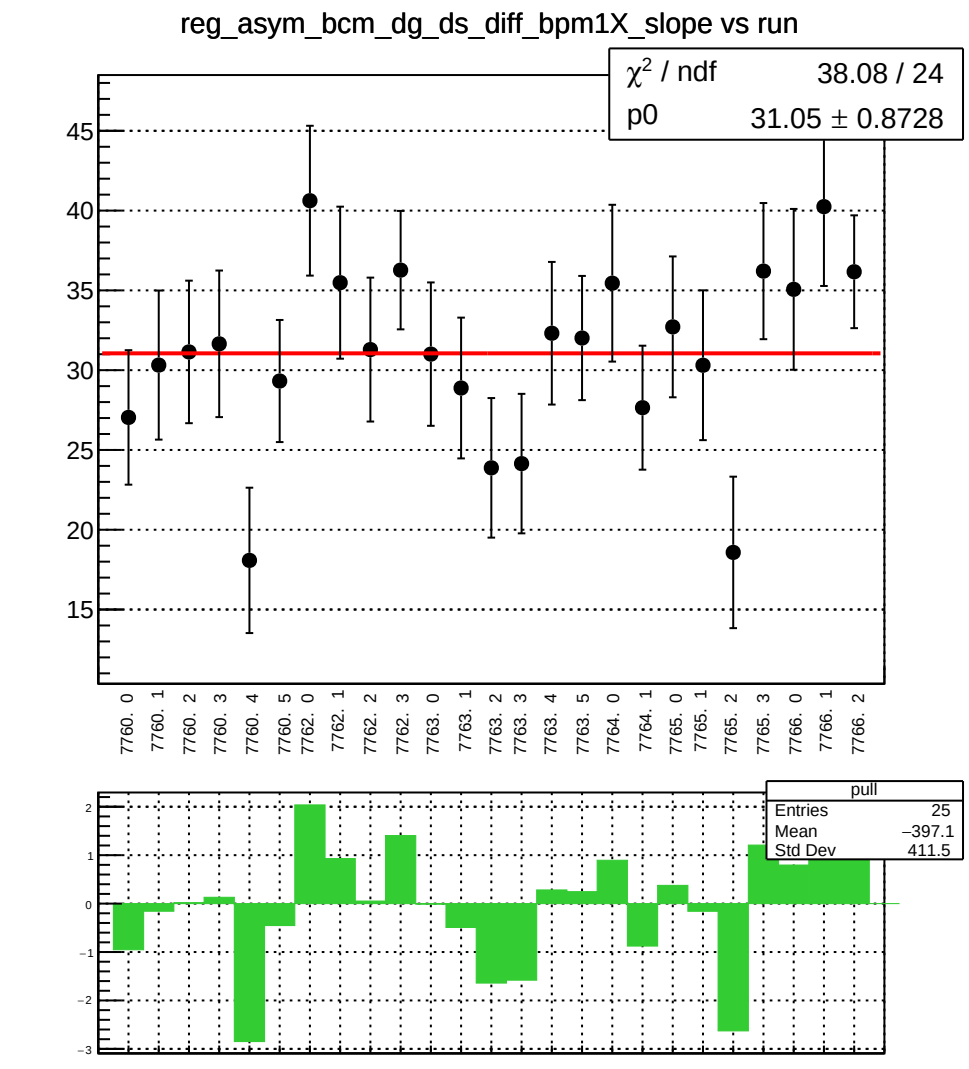

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 33.78 / 24
p0 −29.29 ± 0.8068
pull
Entries 25
Mean −374.3
Std Dev 389

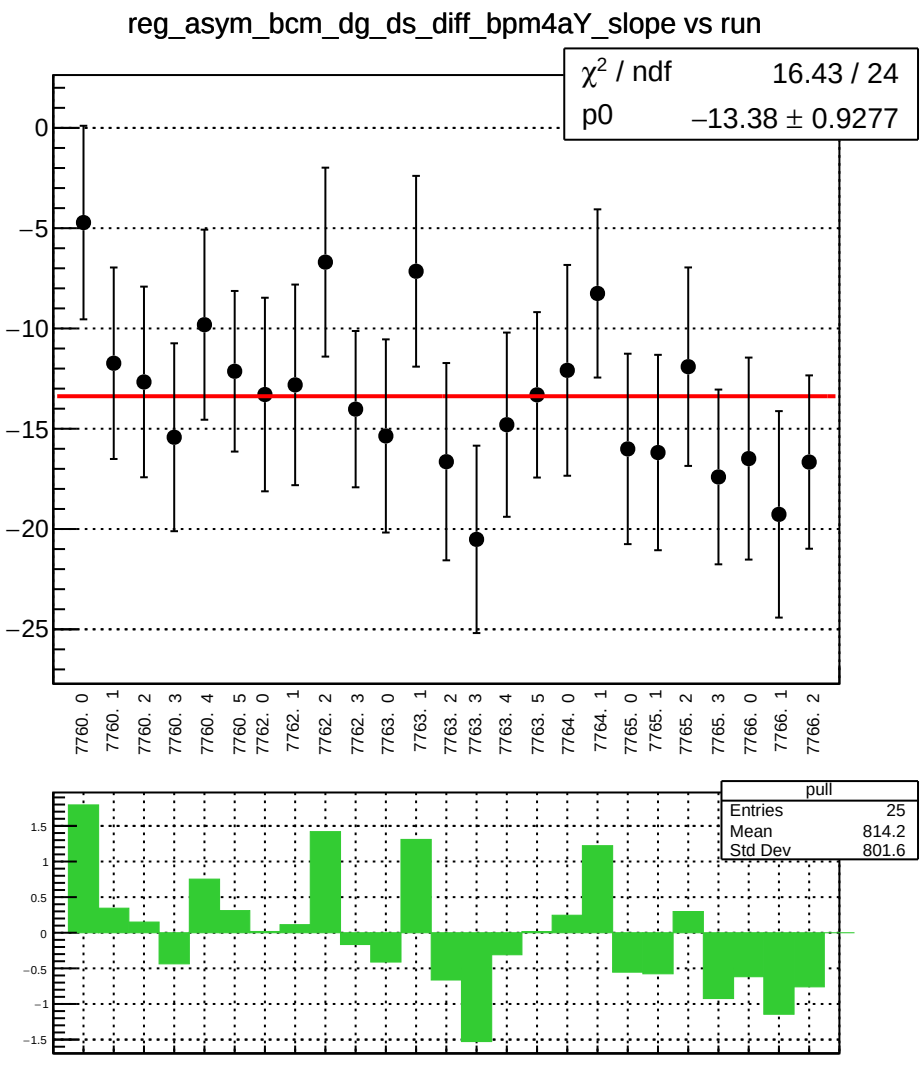

pull1D
Entries 25
Mean 0.005309
Std Dev 1.162

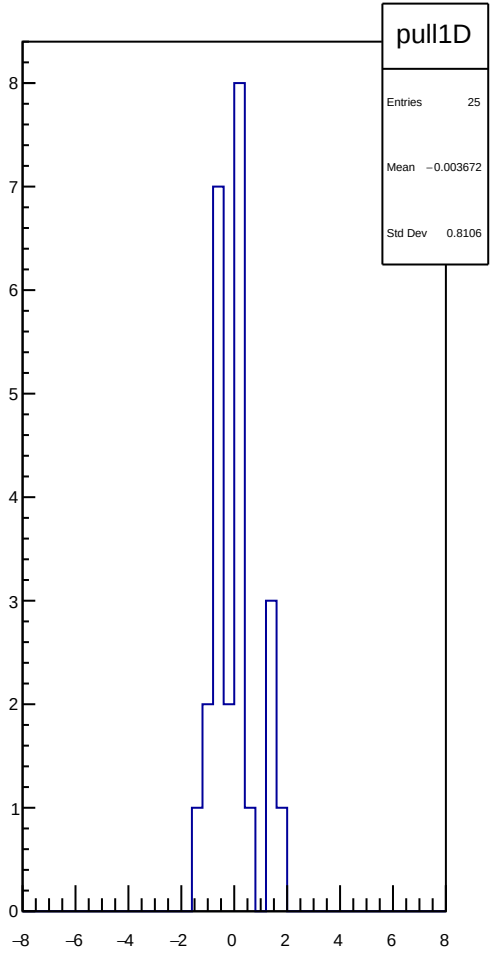

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 15.56 / 24
p0 14.98 ± 1.043
30
25
20
15
10
5
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 313.3
Std Dev 300.3
1.5
1
0.5
0
−0.5
−1
−1.5

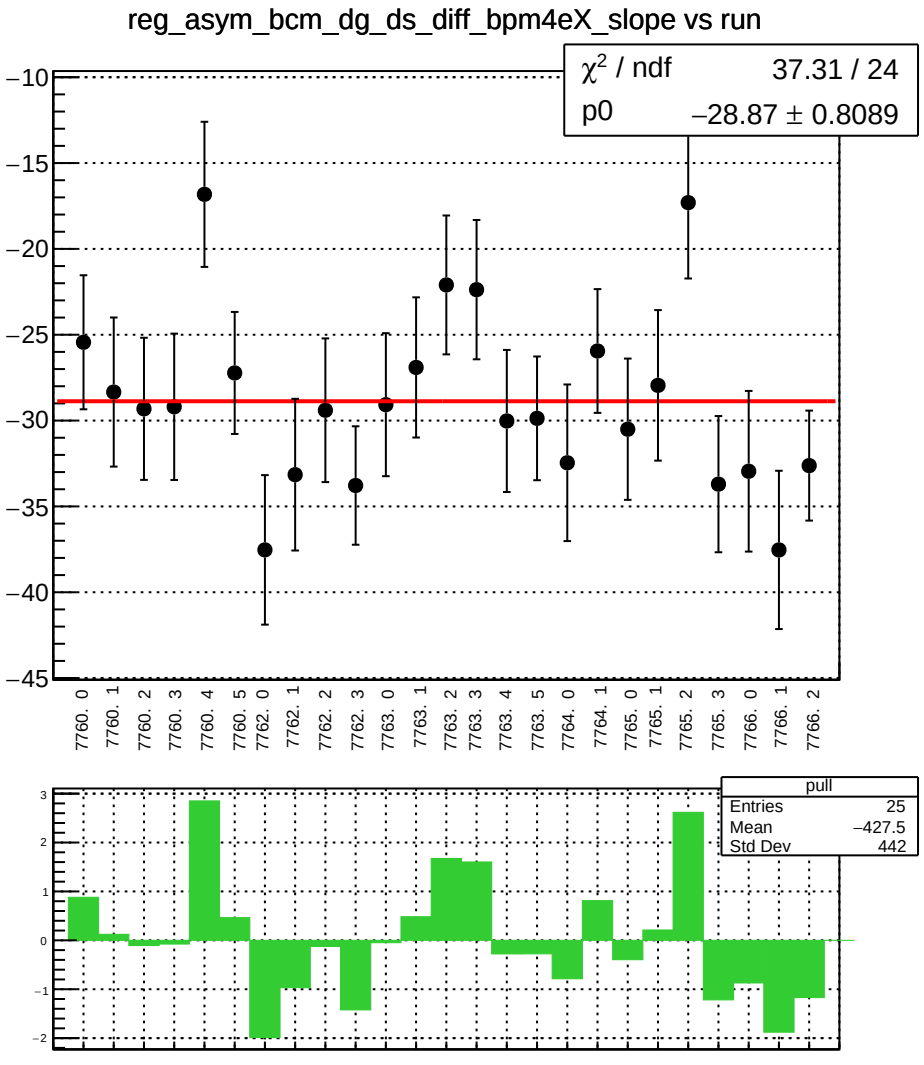

pull1D
Entries 25
Mean 0.008863
Std Dev 0.7888
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

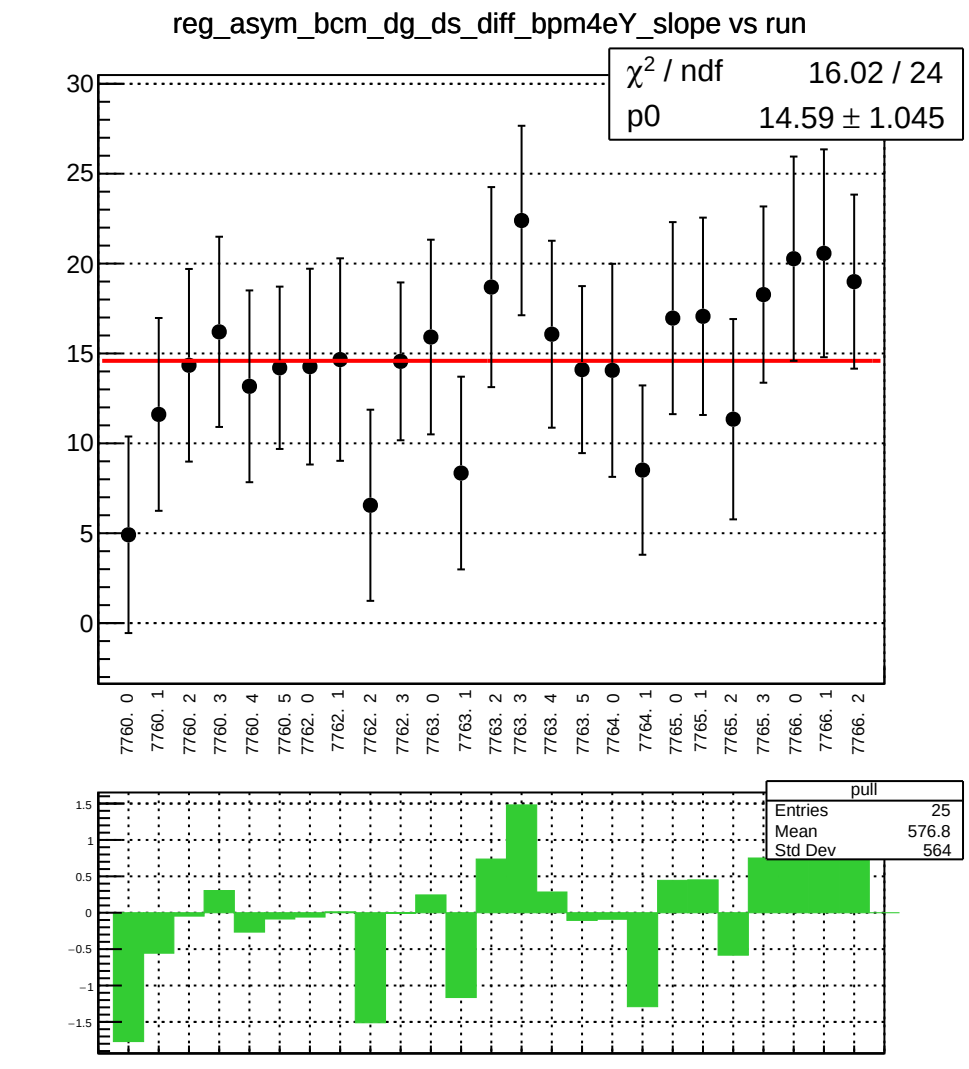

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 31.71 / 24
p0 0.514 ± 0.02855
1
0.8
0.6
0.4
0.2
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −2383
Std Dev 2396
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 25
Mean −0.001463
Std Dev 1.126
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

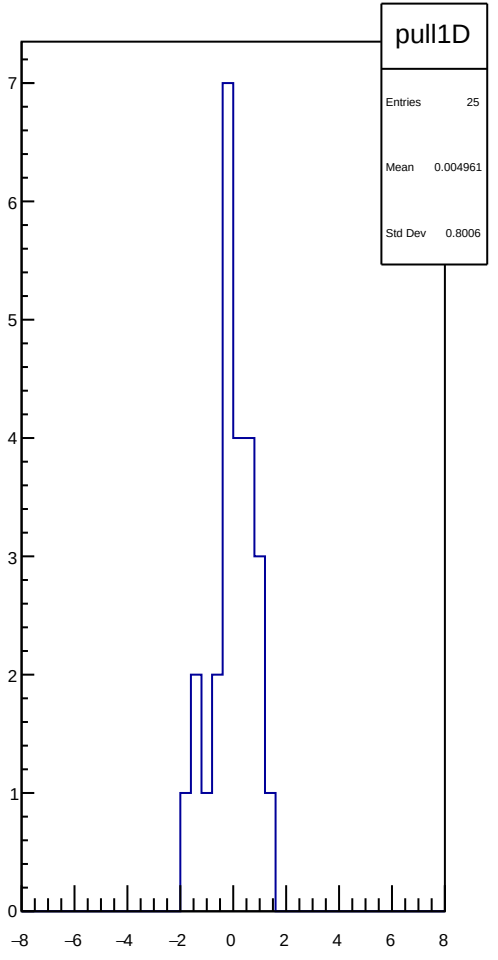

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 38.08 / 24
p0 31.05 ± 0.8728
45
40
35
30
25
20
15
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −397.1
Std Dev 411.5
2
1
0
−1
−2
−3
pull1D
Entries 25
Mean −0.005131
Std Dev 1.234
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

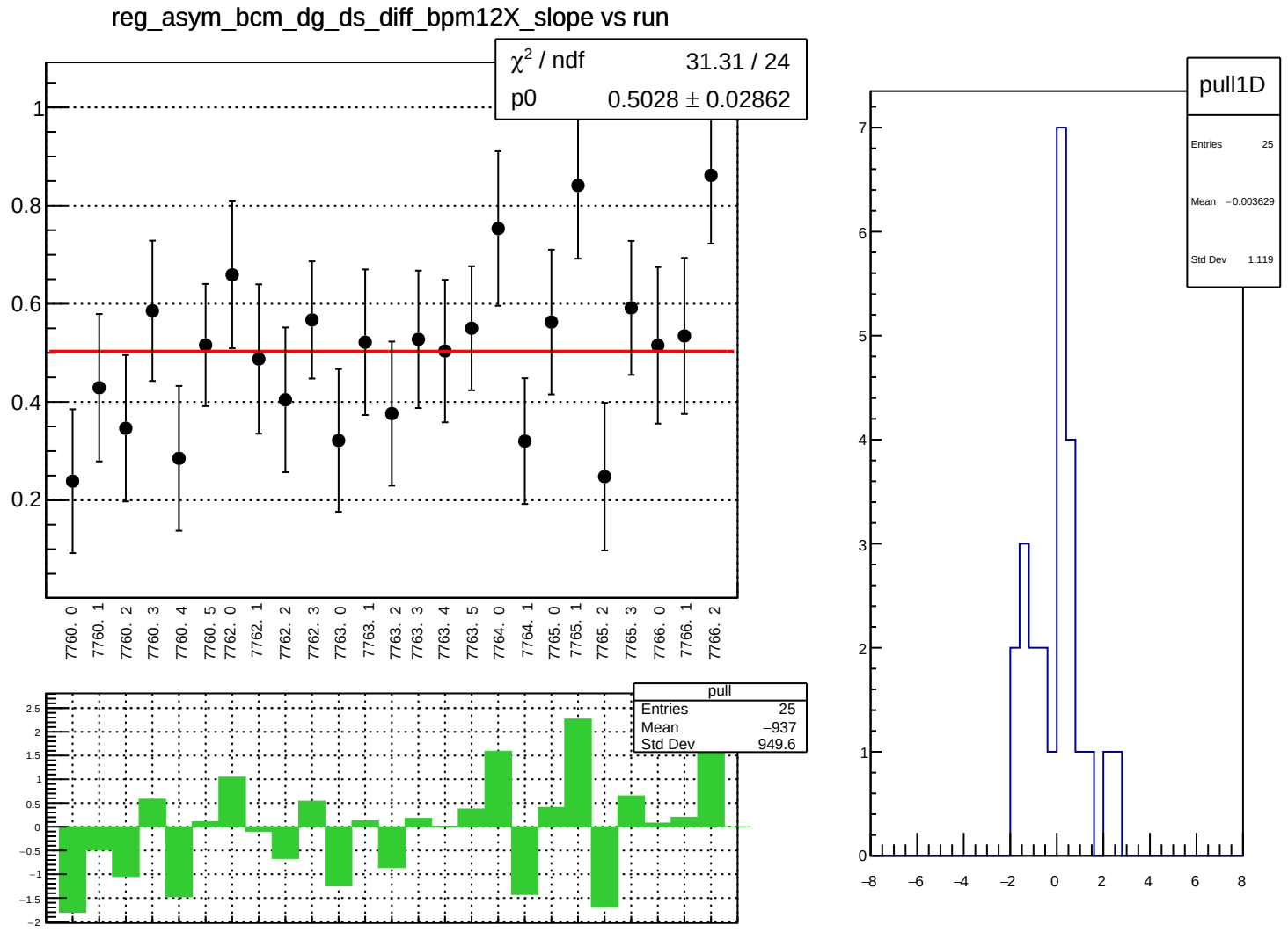

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 16.43 / 24
p0 −13.38 ± 0.9277
0
−5
−10
−15
−20
−25
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 814.2
Std Dev 801.6
1.5
1
0.5
0
−0.5
−1
−1.5

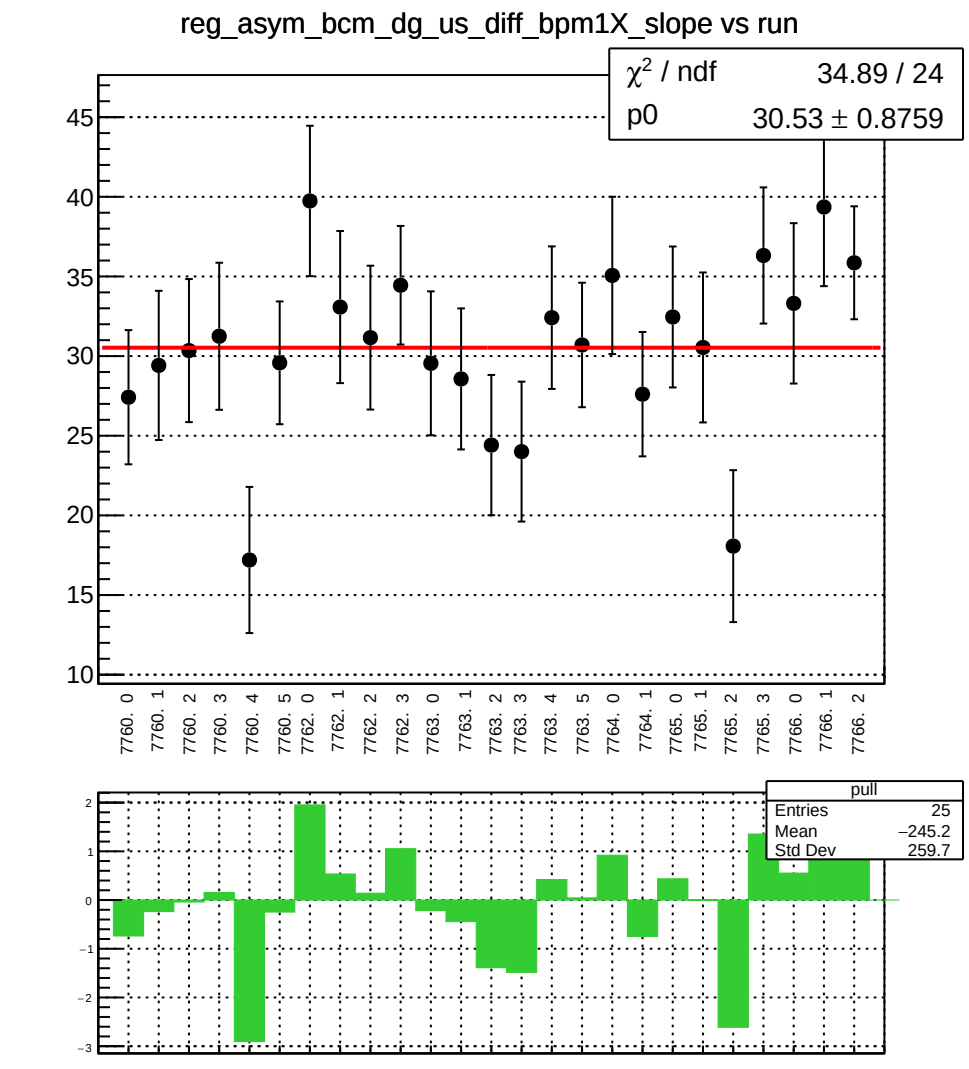

pull1D
Entries 25
Mean −0.003672
Std Dev 0.8106
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

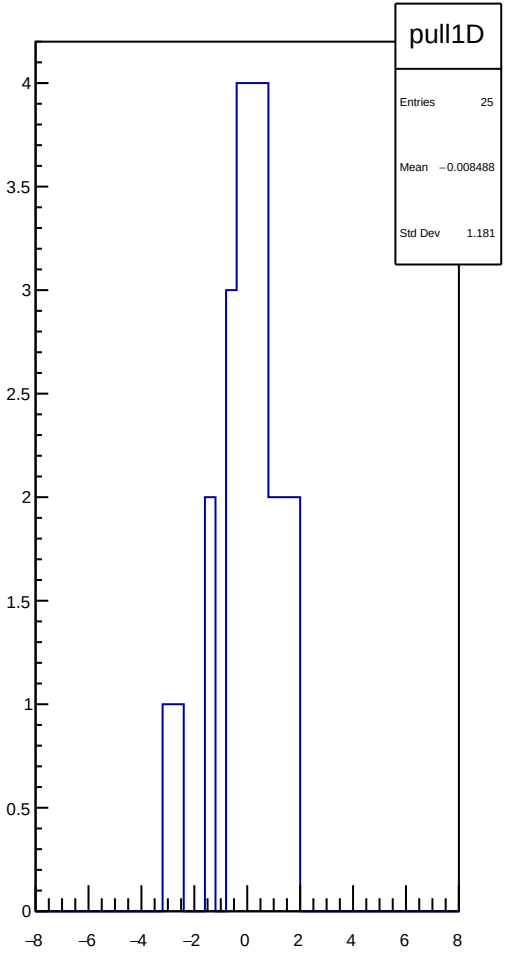

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 37.31 / 24
p0 −28.87 ± 0.8089
pull
Entries 25
Mean −427.5
Std Dev 442
pull1D
Entries 25
Mean 0.004388
Std Dev 1.222

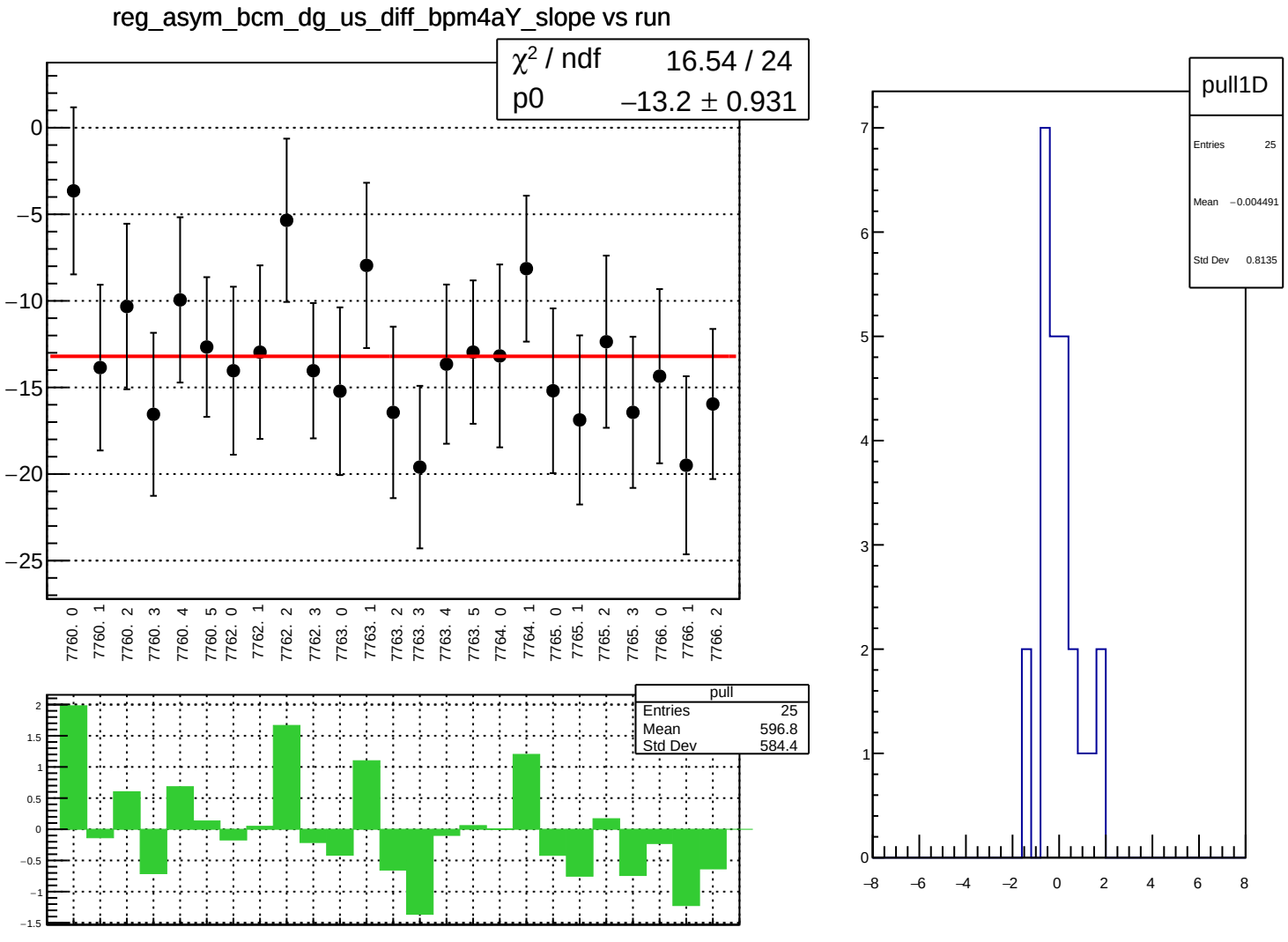

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 16.02 / 24
p0 14.59 ± 1.045
30
25
20
15
10
5
0
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 576.8
Std Dev 564
1.5
1
0.5
0
−0.5
−1
−1.5

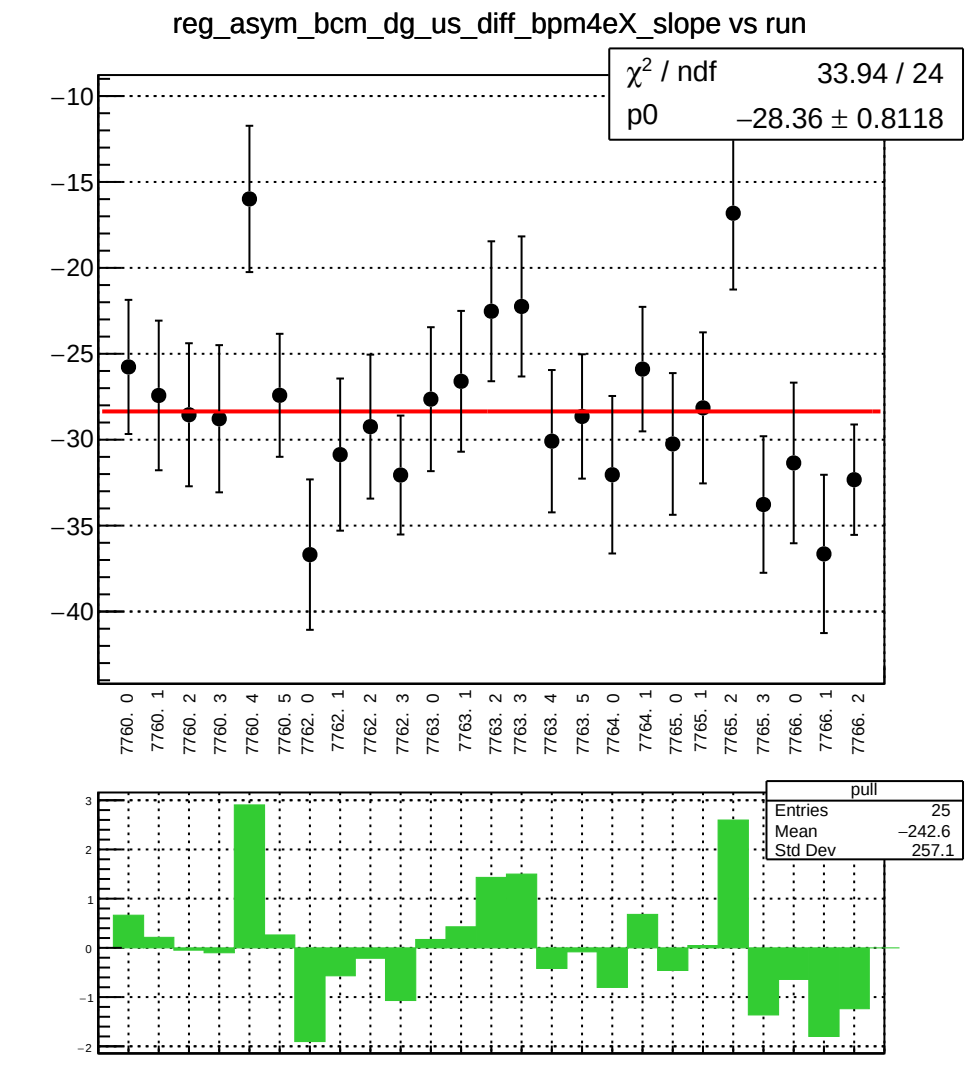

pull1D
Entries 25
Mean 0.004961
Std Dev 0.8006
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

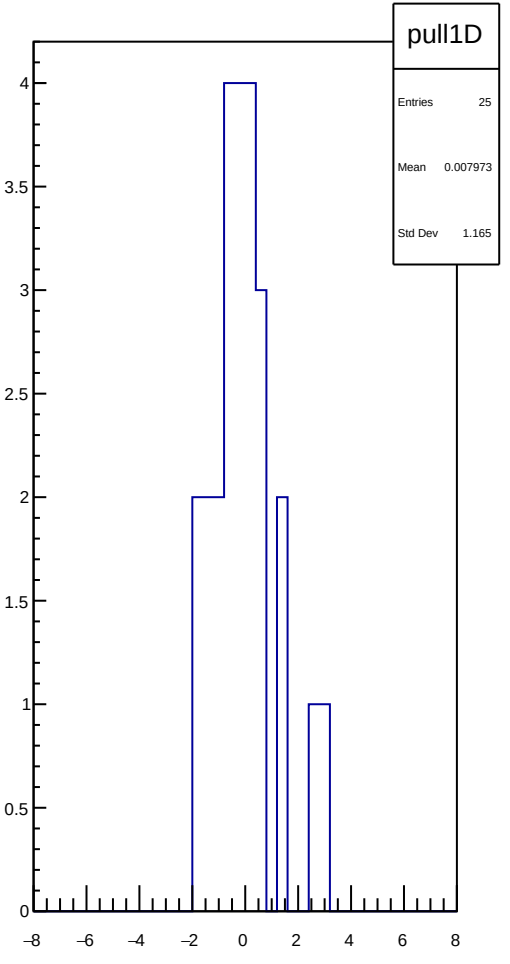

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 31.31 / 24
p0 0.5028 ± 0.02862
1
0.8
0.6
0.4
0.2
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −937
Std Dev 949.6
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 25
Mean −0.003629
Std Dev 1.119
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

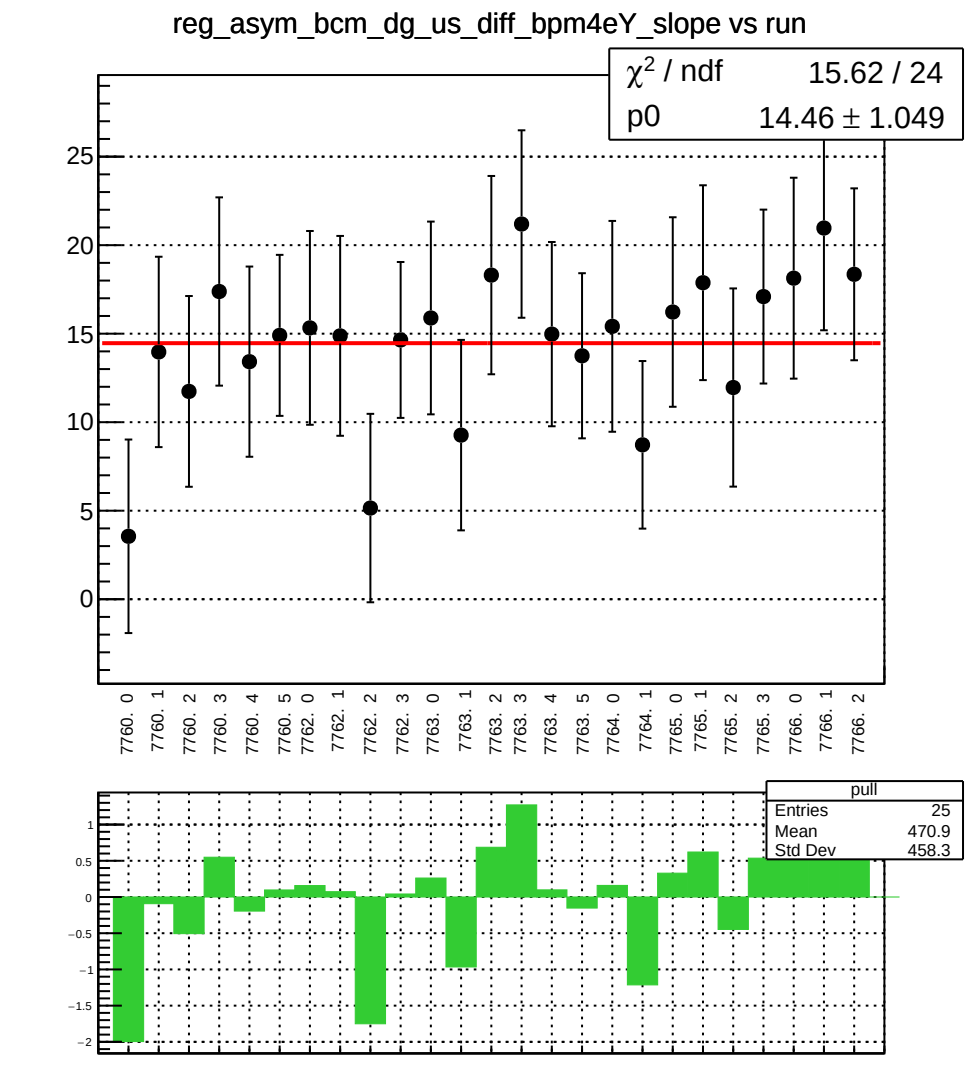

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 34.89 / 24
p0 30.53 ± 0.8759
45
40
35
30
25
20
15
10
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −245.2
Std Dev 259.7
2
1
0
−1
−2
−3

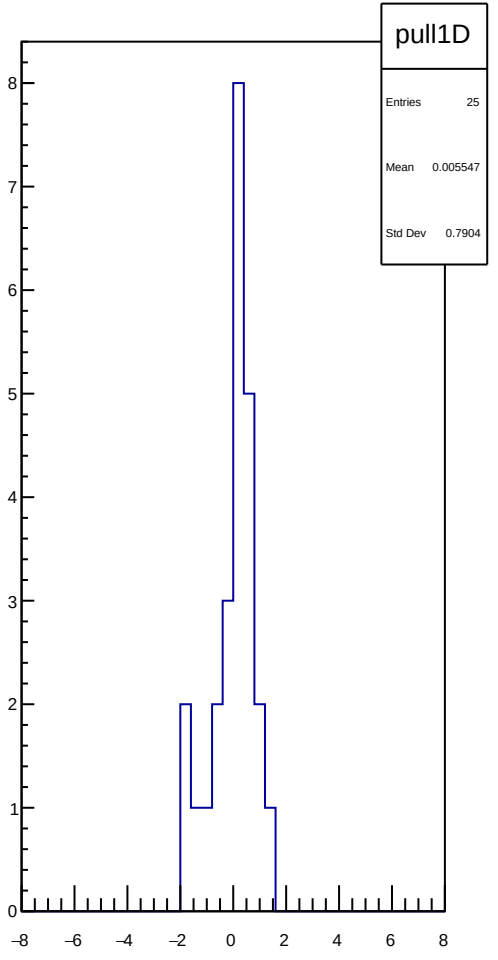

pull1D
Entries 25
Mean −0.008488
Std Dev 1.181
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

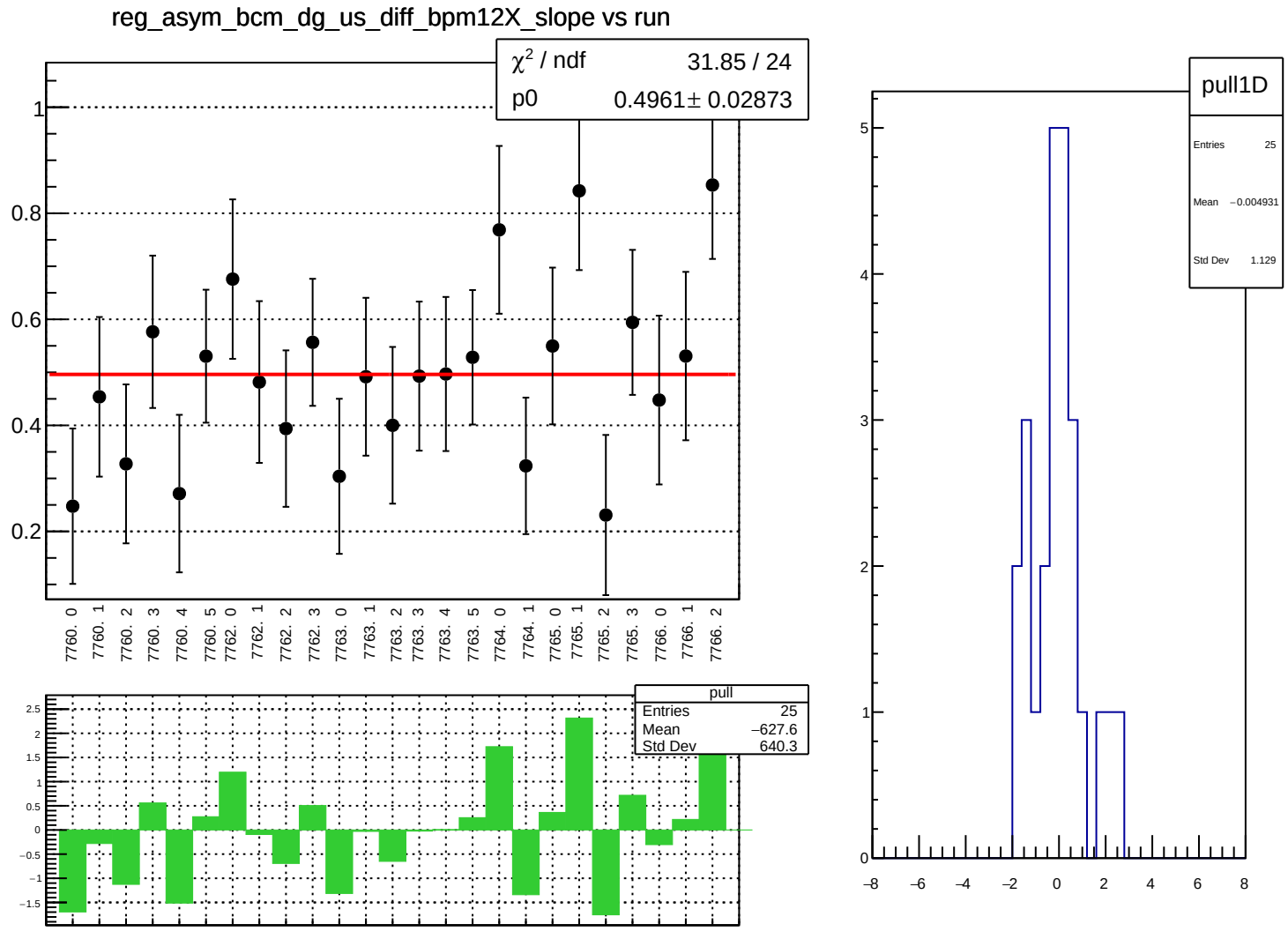

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 16.54 / 24
p0 −13.2 ± 0.931
0
−5
−10
−15
−20
−25
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 596.8
Std Dev 584.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 25
Mean −0.004491
Std Dev 0.8135
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 33.94 / 24
p0 −28.36 ± 0.8118
−10
−15
−20
−25
−30
−35
−40
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −242.6
Std Dev 257.1
3
2
1
0
−1
−2


pull1D
Entries 25
Mean 0.007973
Std Dev 1.165
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 15.62 / 24
p0 14.46 ± 1.049
25
20
15
10
5
0
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 470.9
Std Dev 458.3
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 25
Mean 0.005547
Std Dev 0.7904
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 31.85 / 24
p0 0.4961± 0.02873
1
0.8
0.6
0.4
0.2
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −627.6
Std Dev 640.3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 25
Mean −0.004931
Std Dev 1.129
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8