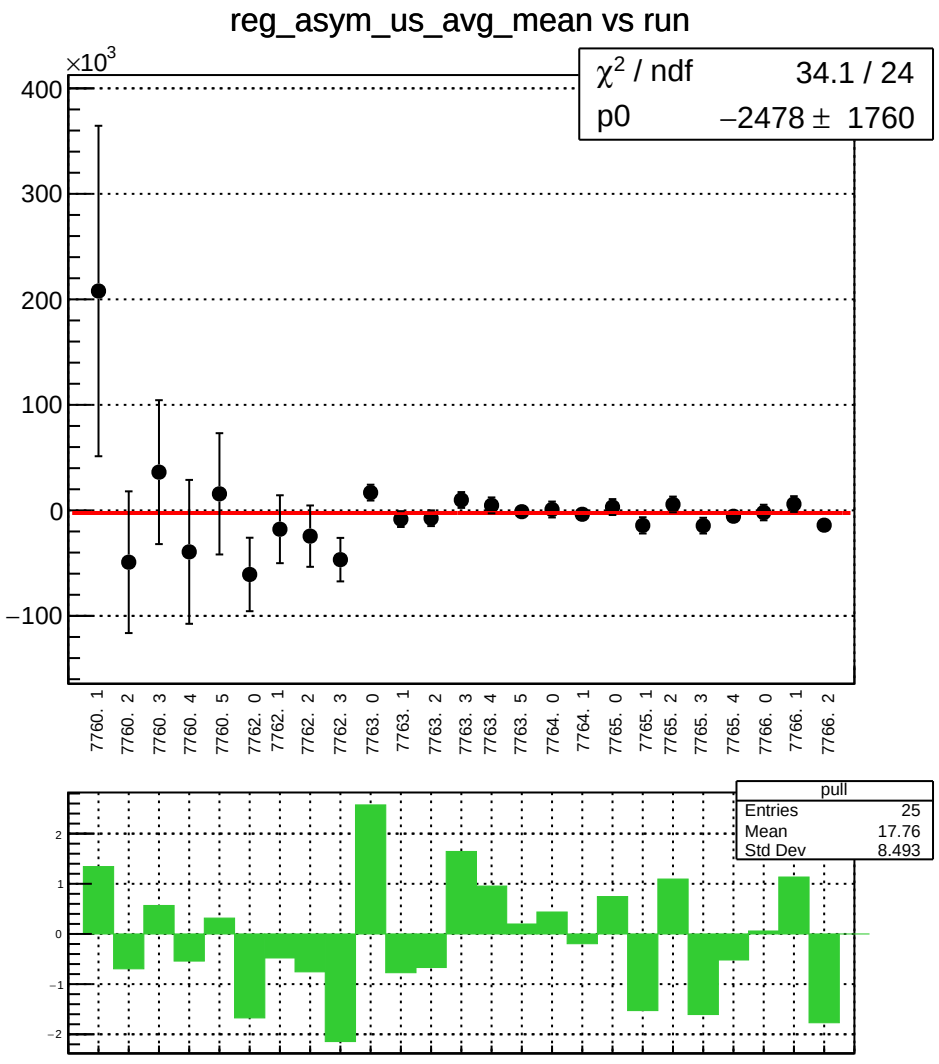
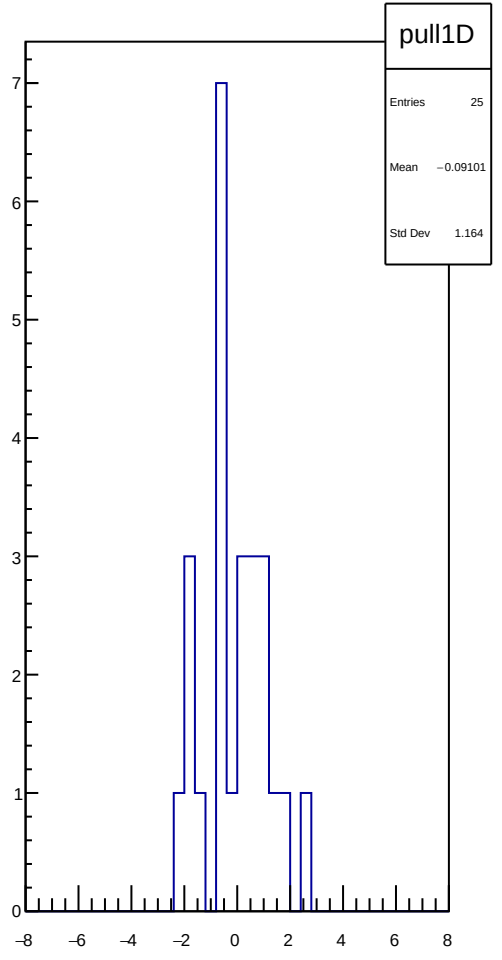
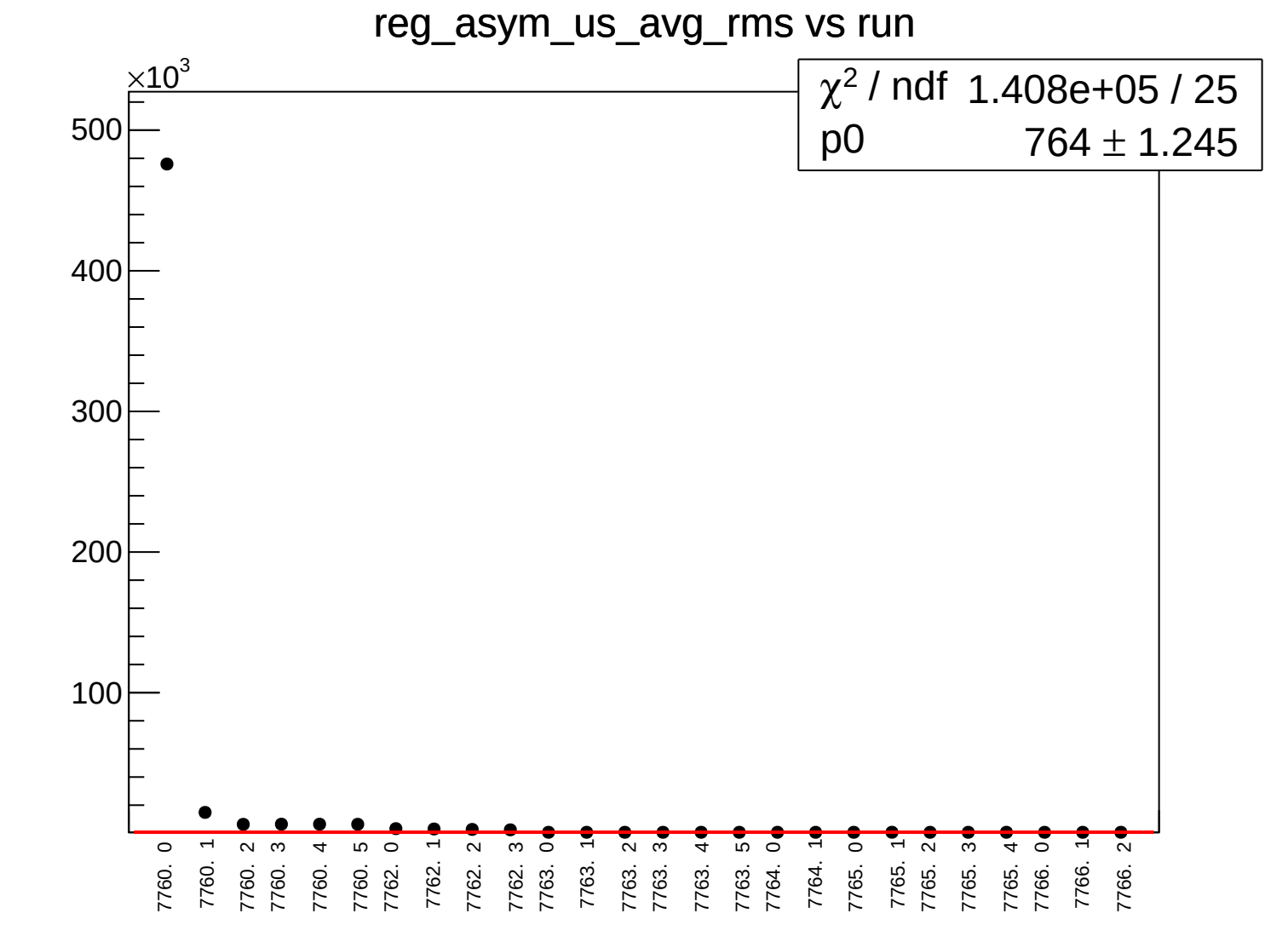
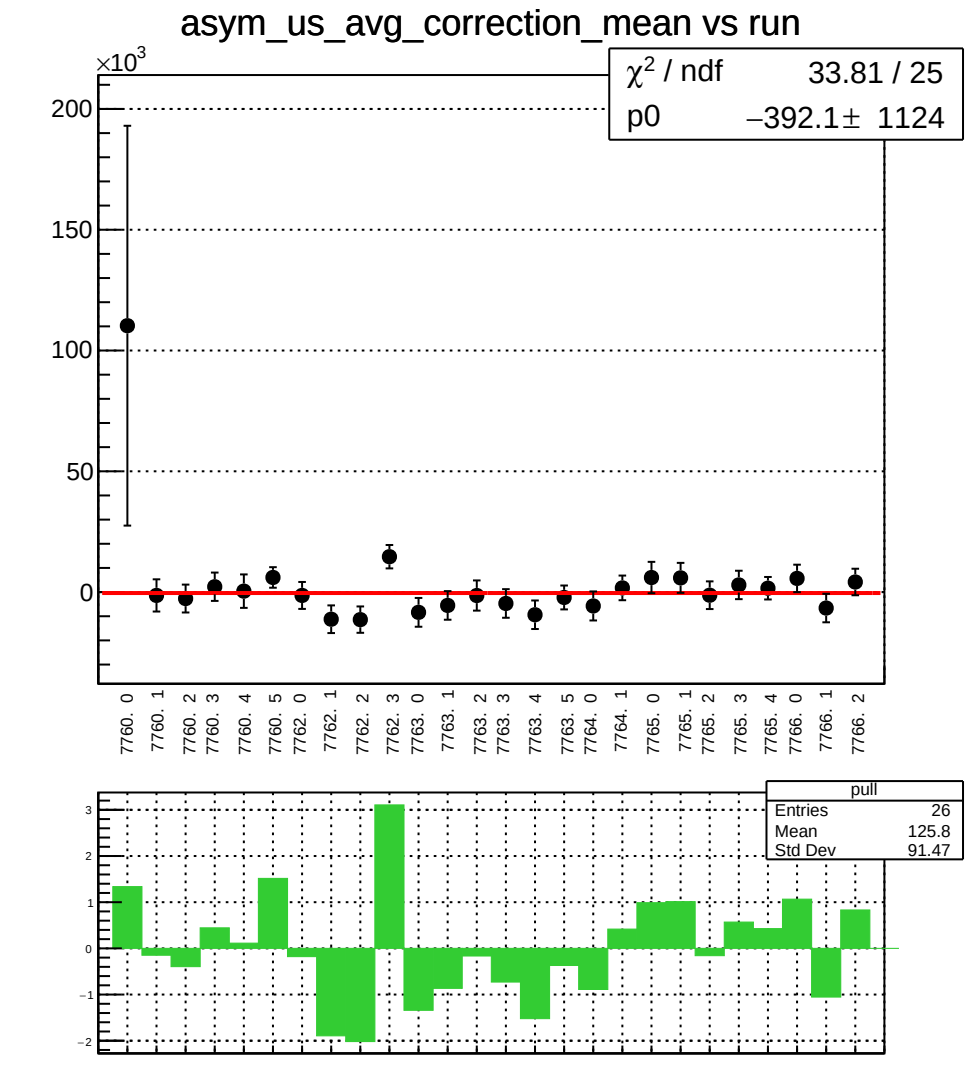
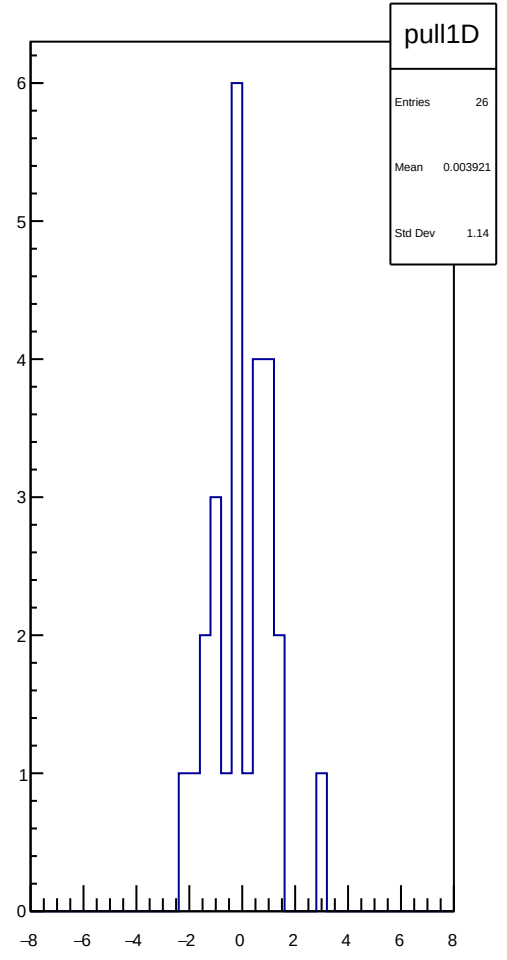
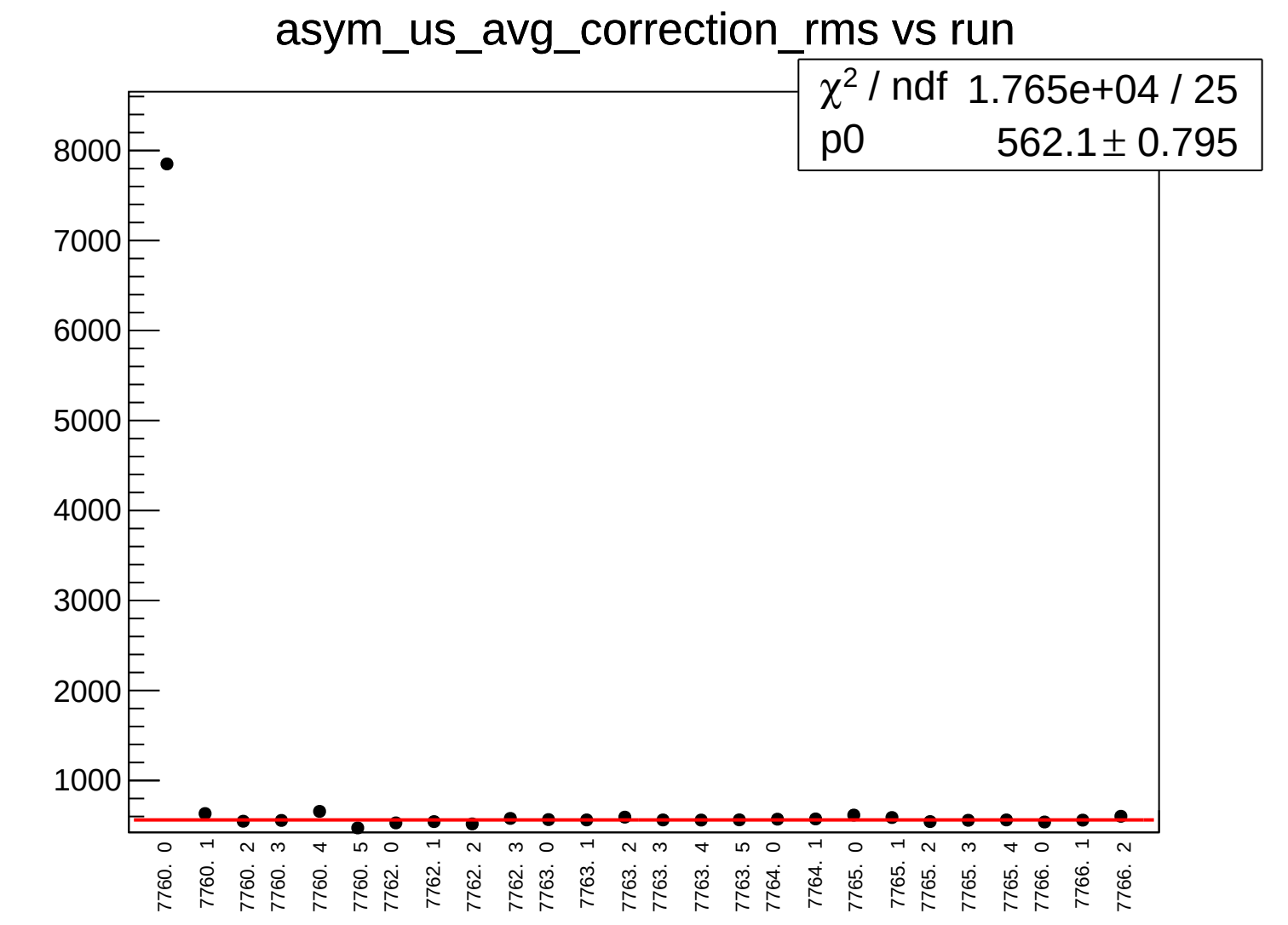

reg_asym_us_avg_mean vs run
×10^3
χ^2 / ndf 34.1 / 24
p0 −2478 ± 1760
400
300
200
100
0
−100
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 17.76
Std Dev 8.493
2
1
0
−1
−2

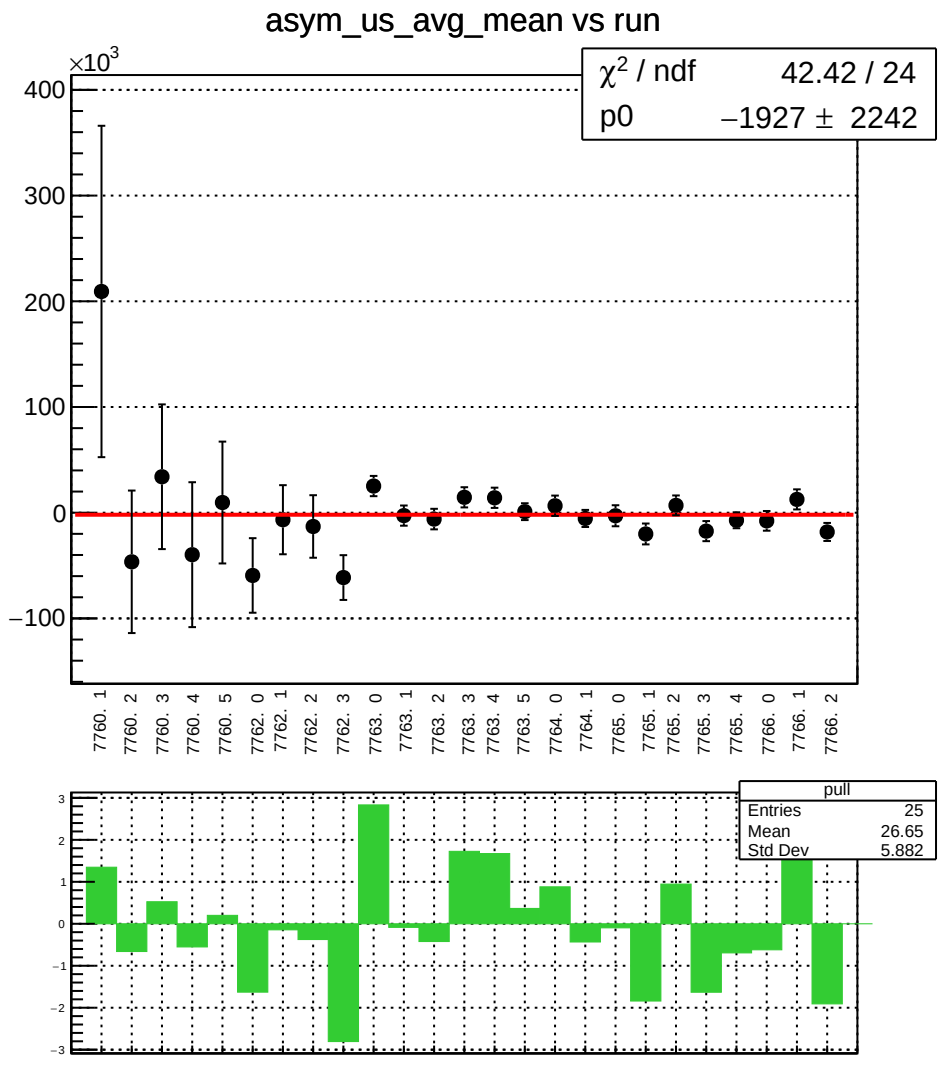

pull1D
Entries 25
Mean −0.09101
Std Dev 1.164
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

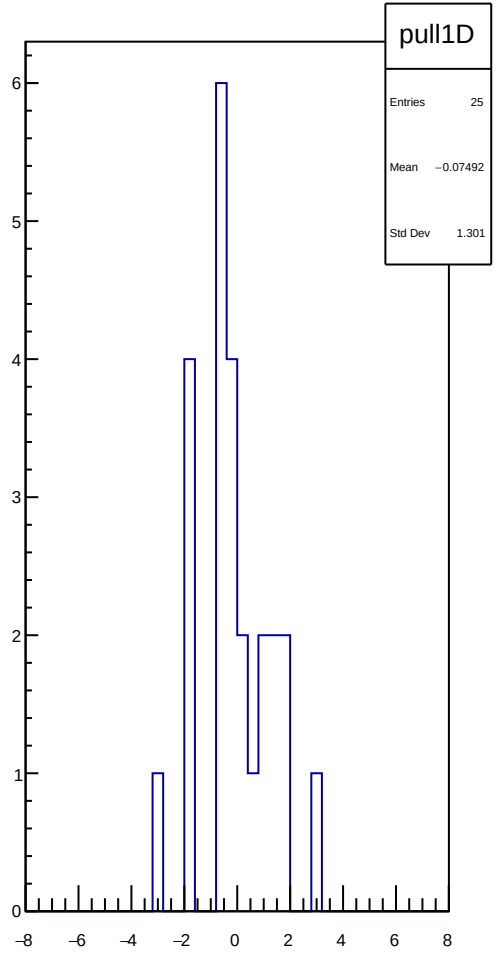

reg_asym_us_avg_rms vs run
×10^3
500
400
300
200
100
χ² / ndf 1.408e+05 / 25
p0 764 ± 1.245
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

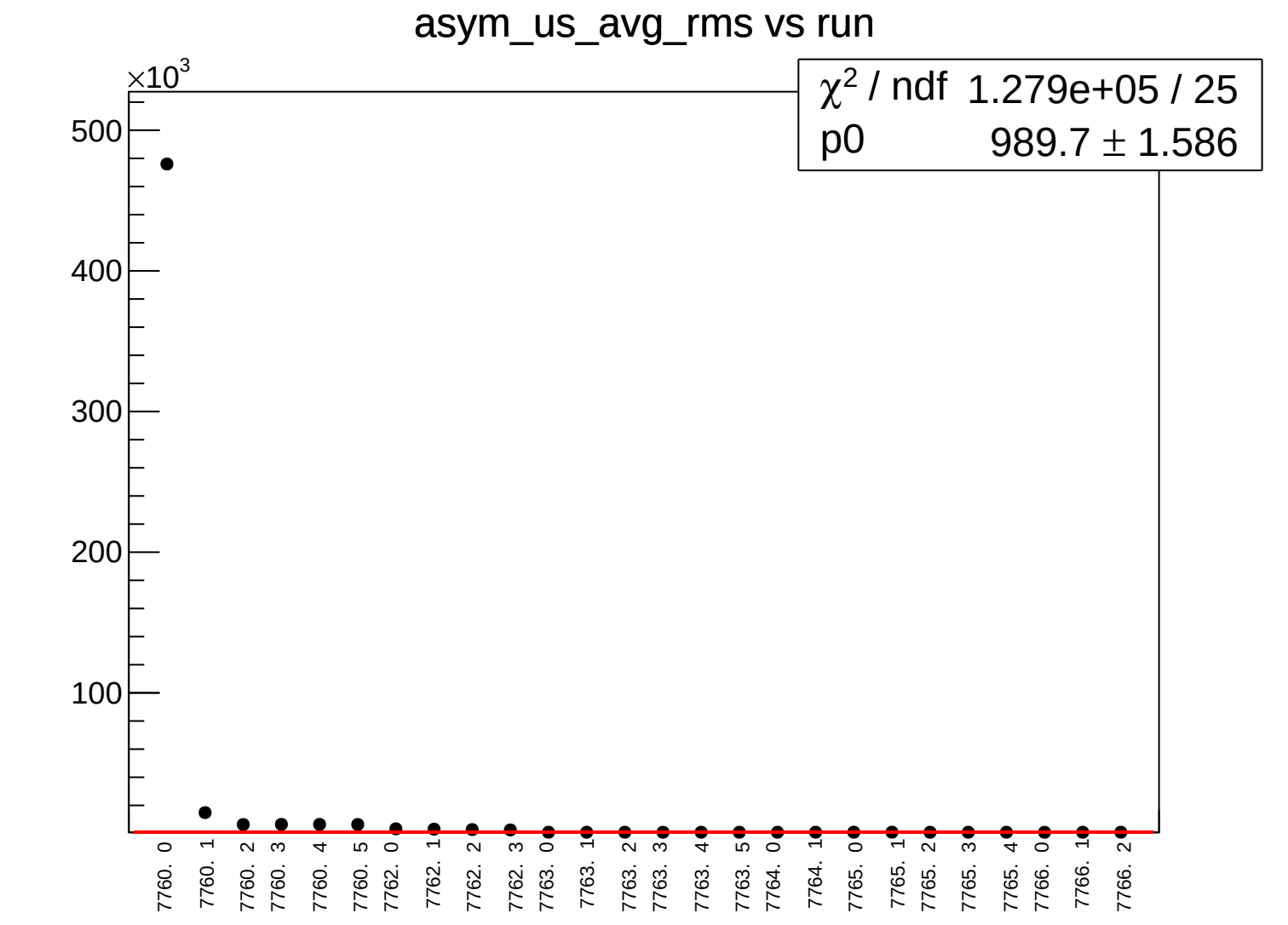

asym_us_avg_correction_mean vs run
×10^3
χ² / ndf 33.81 / 25
p0 −392.1± 1124
200
150
100
50
0
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 125.8
Std Dev 91.47
3
2
1
0
−1
−2

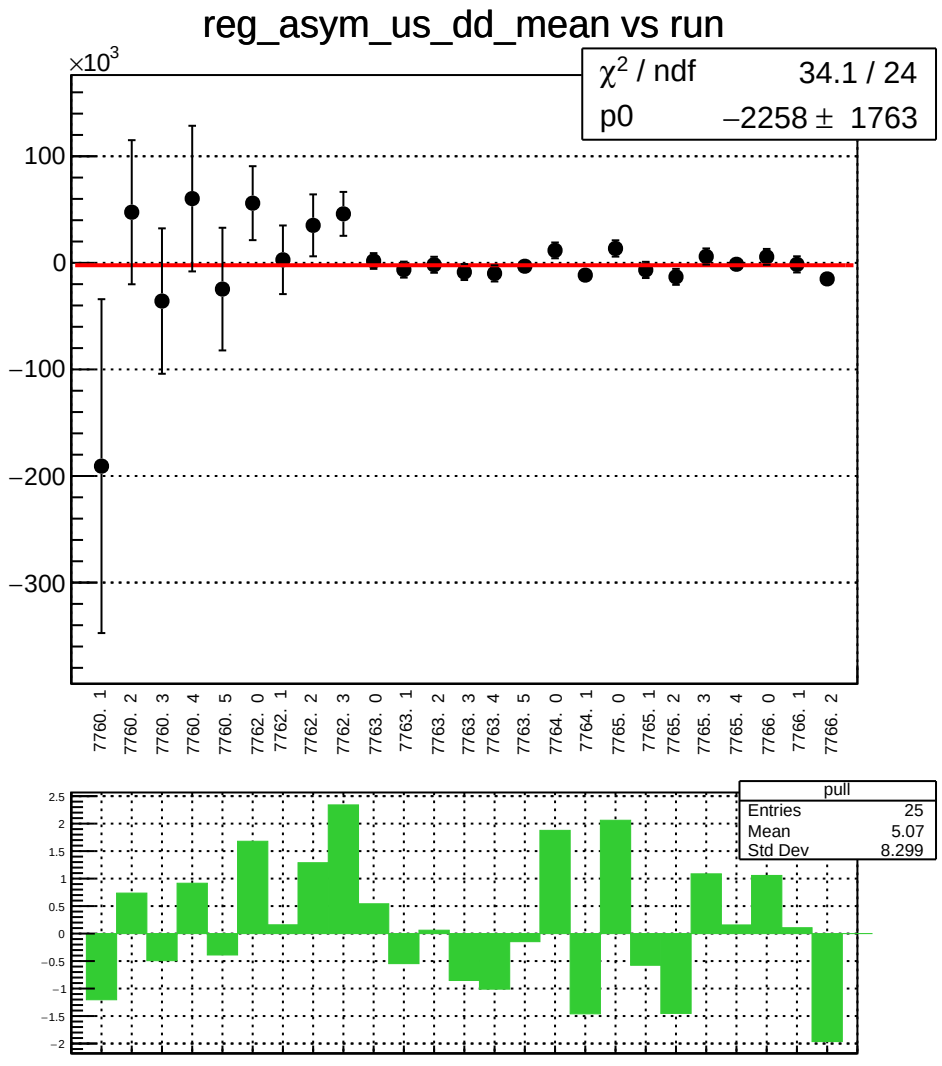

pull1D
Entries 26
Mean 0.003921
Std Dev 1.14
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

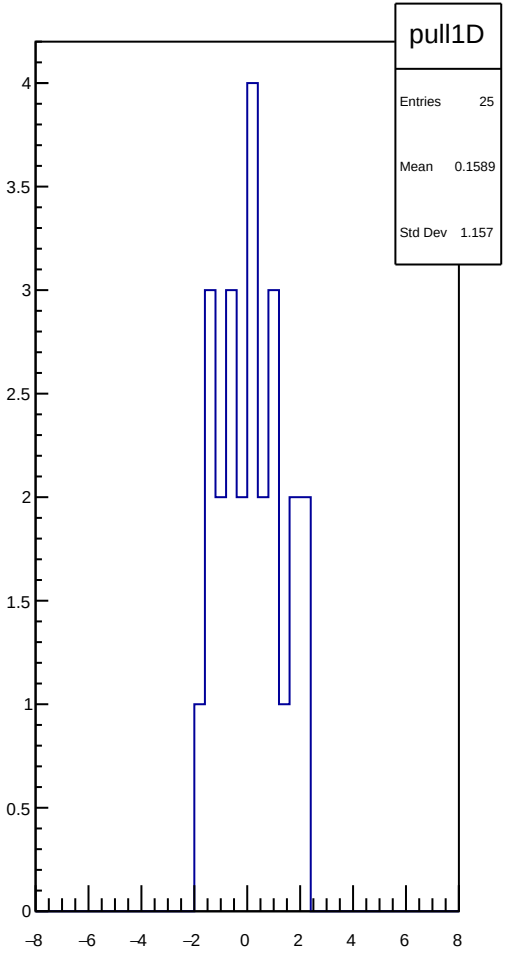

asym_us_avg_correction_rms vs run
χ² / ndf 1.765e+04 / 25
p0 562.1 ± 0.795
8000
7000
6000
5000
4000
3000
2000
1000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

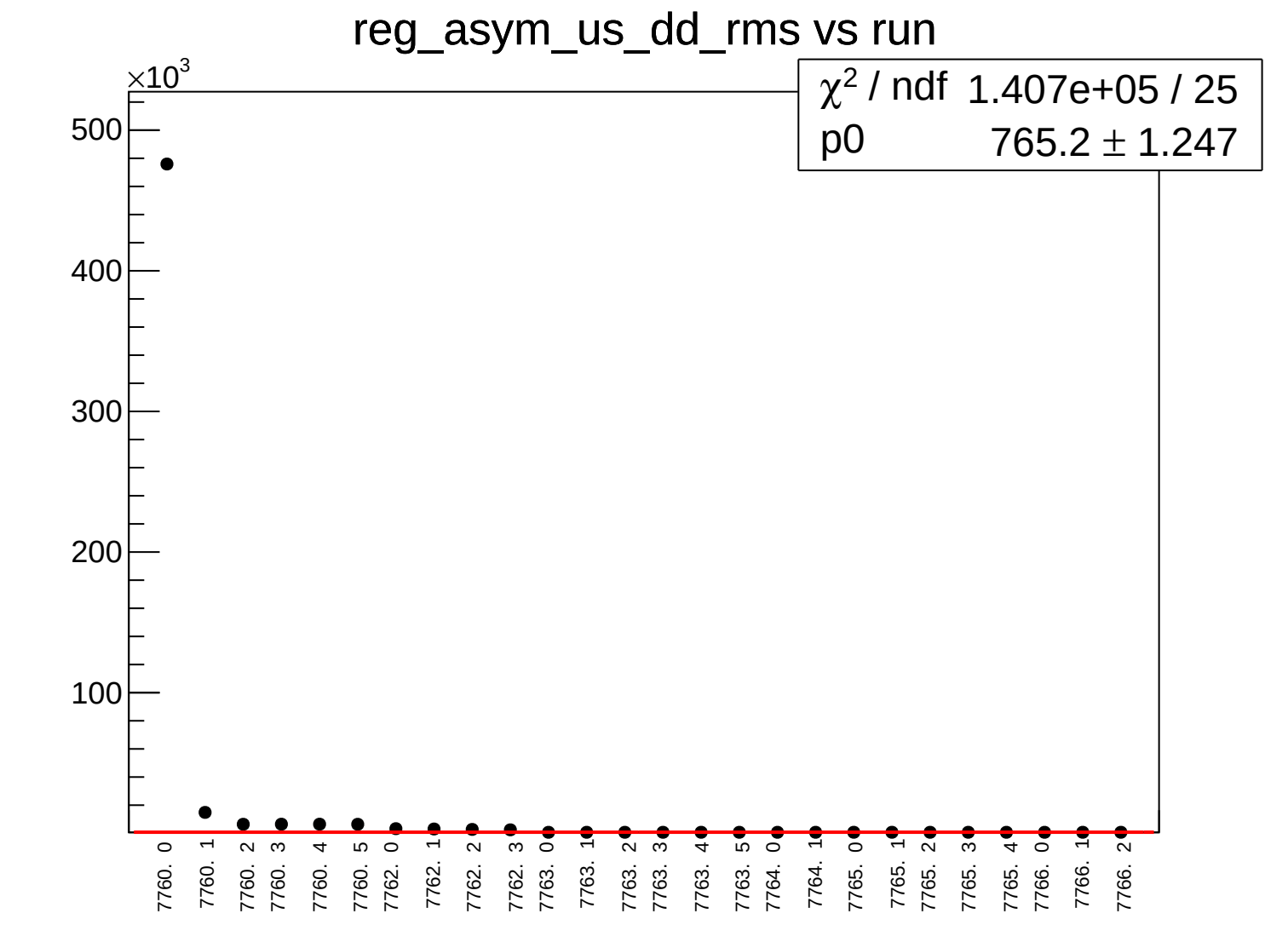

asym_us_avg_mean vs run
×10^3
χ^2 / ndf 42.42 / 24
p0 −1927 ± 2242
400
300
200
100
0
−100
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 26.65
Std Dev 5.882
3
2
1
0
−1
−2
−3

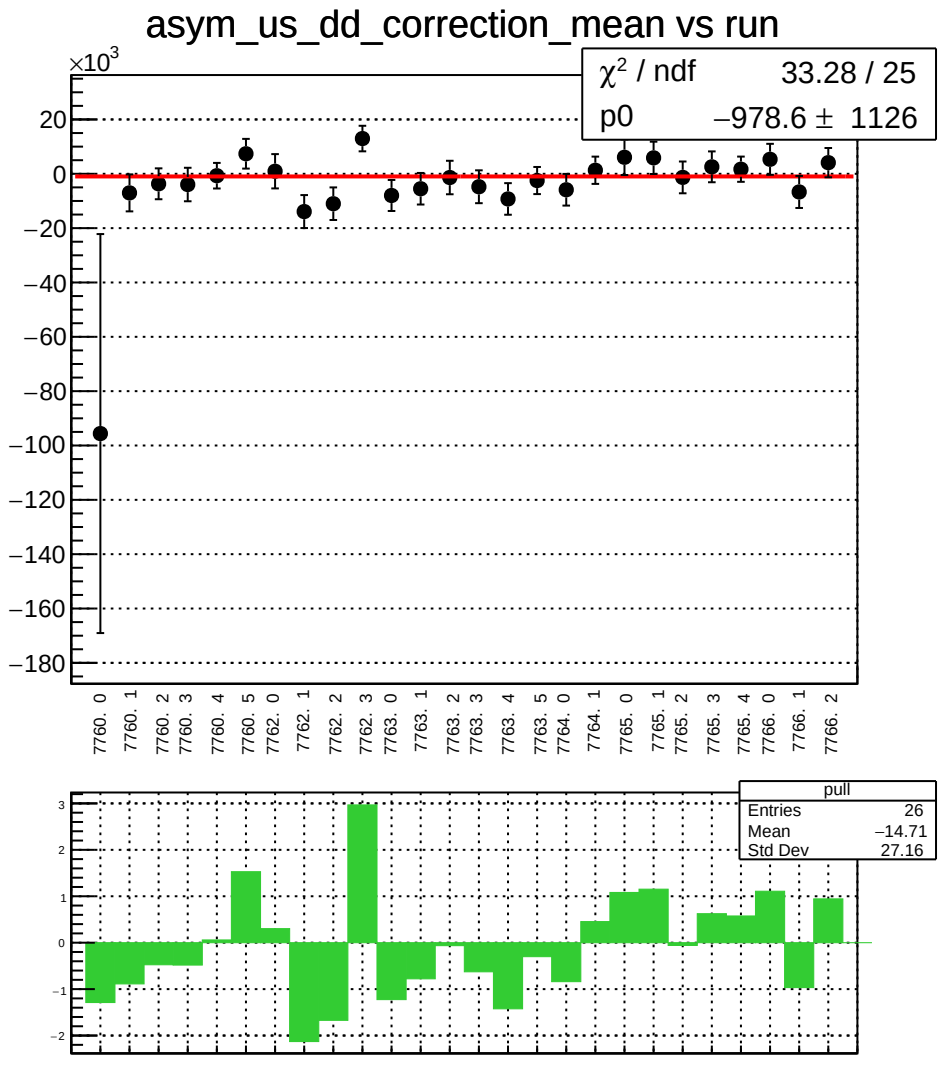

pull1D
Entries 25
Mean −0.07492
Std Dev 1.301
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

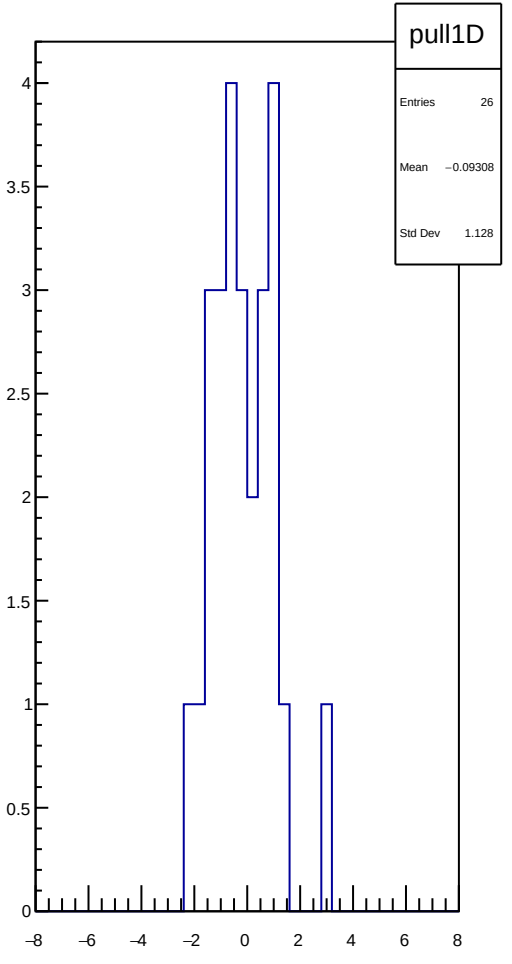

asym_us_avg_rms vs run
×10^3
500
400
300
200
100
χ² / ndf 1.279e+05 / 25
p0 989.7 ± 1.586
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

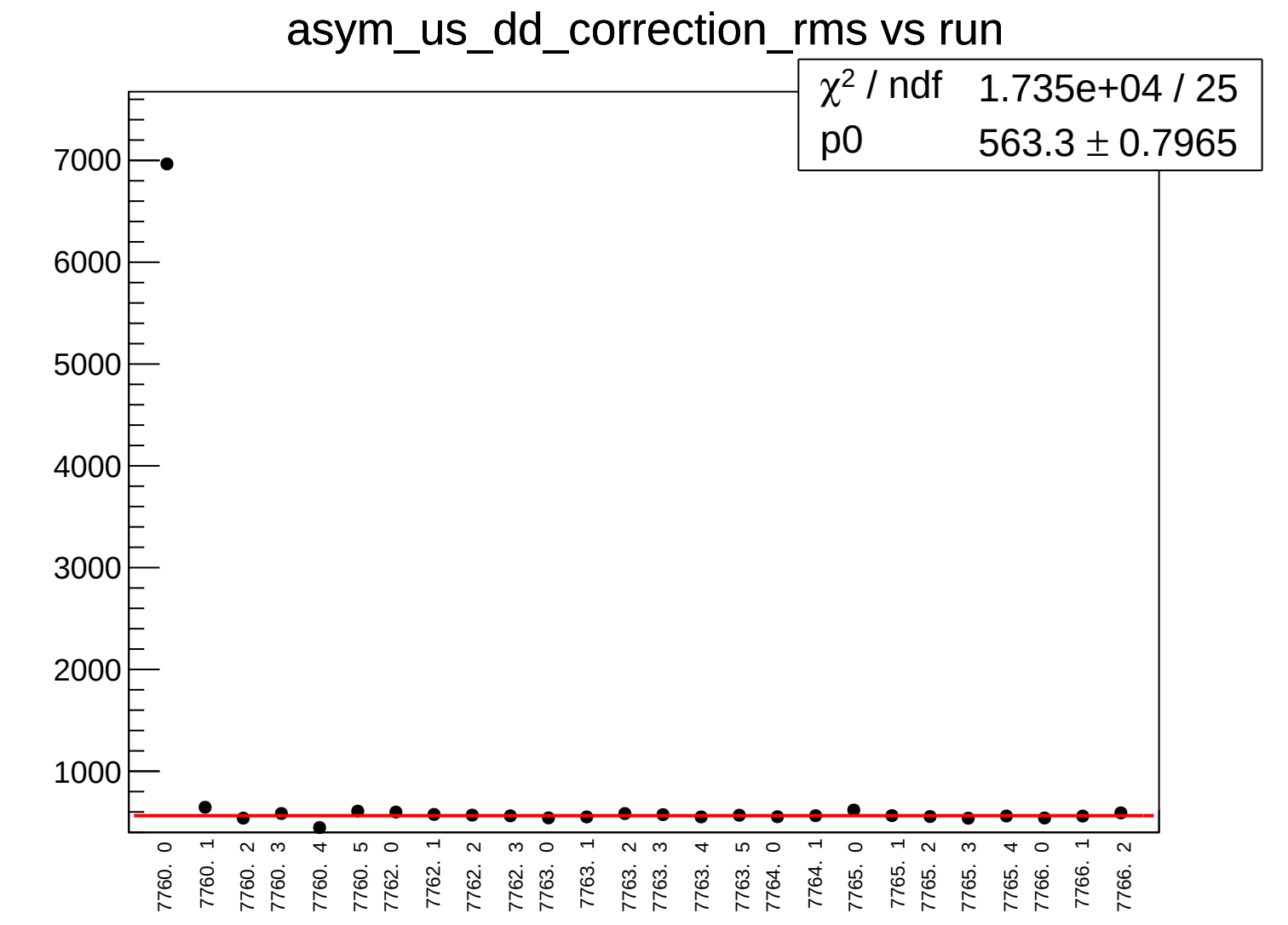

reg_asym_us_dd_mean vs run
×10^3
χ^2 / ndf 34.1 / 24
p0 −2258 ± 1763
100
0
−100
−200
−300
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 5.07
Std Dev 8.299
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

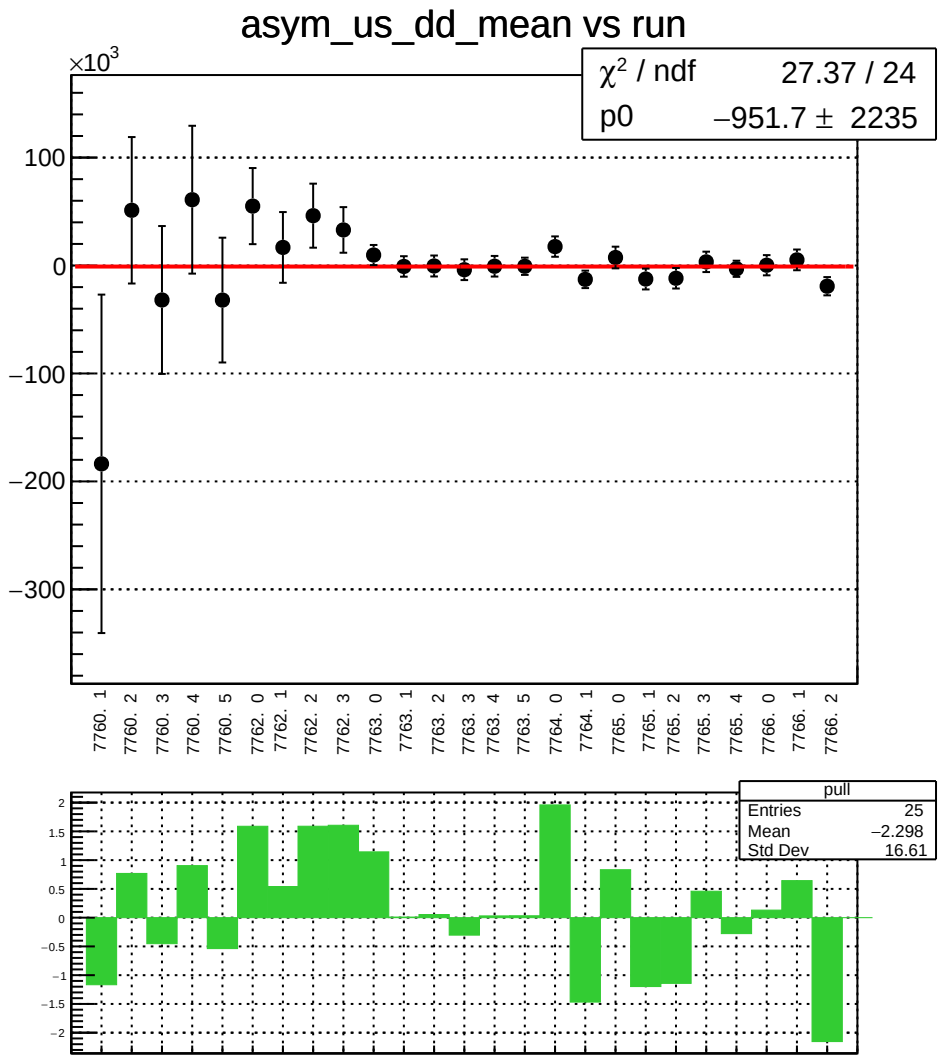

pull1D
Entries 25
Mean 0.1589
Std Dev 1.157
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

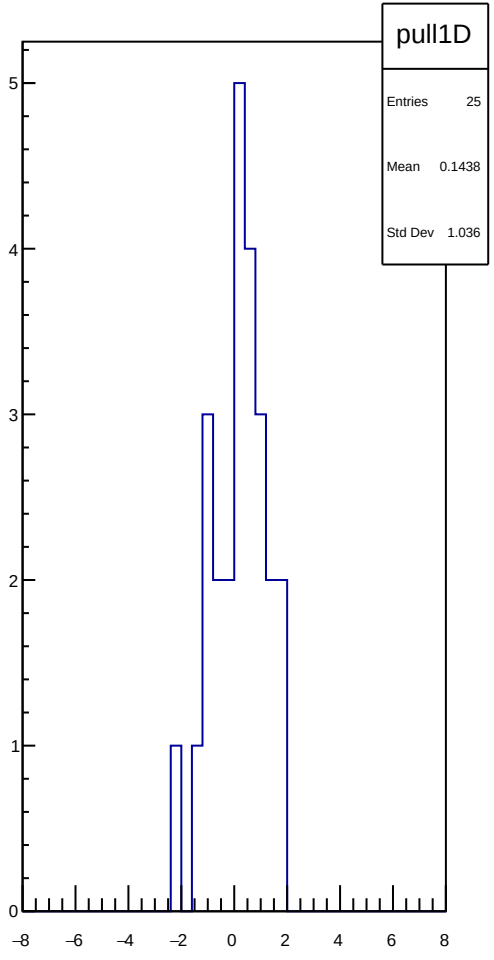

reg_asym_us_dd_rms vs run
×10^3
500
400
300
200
100
χ² / ndf 1.407e+05 / 25
p0 765.2 ± 1.247
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

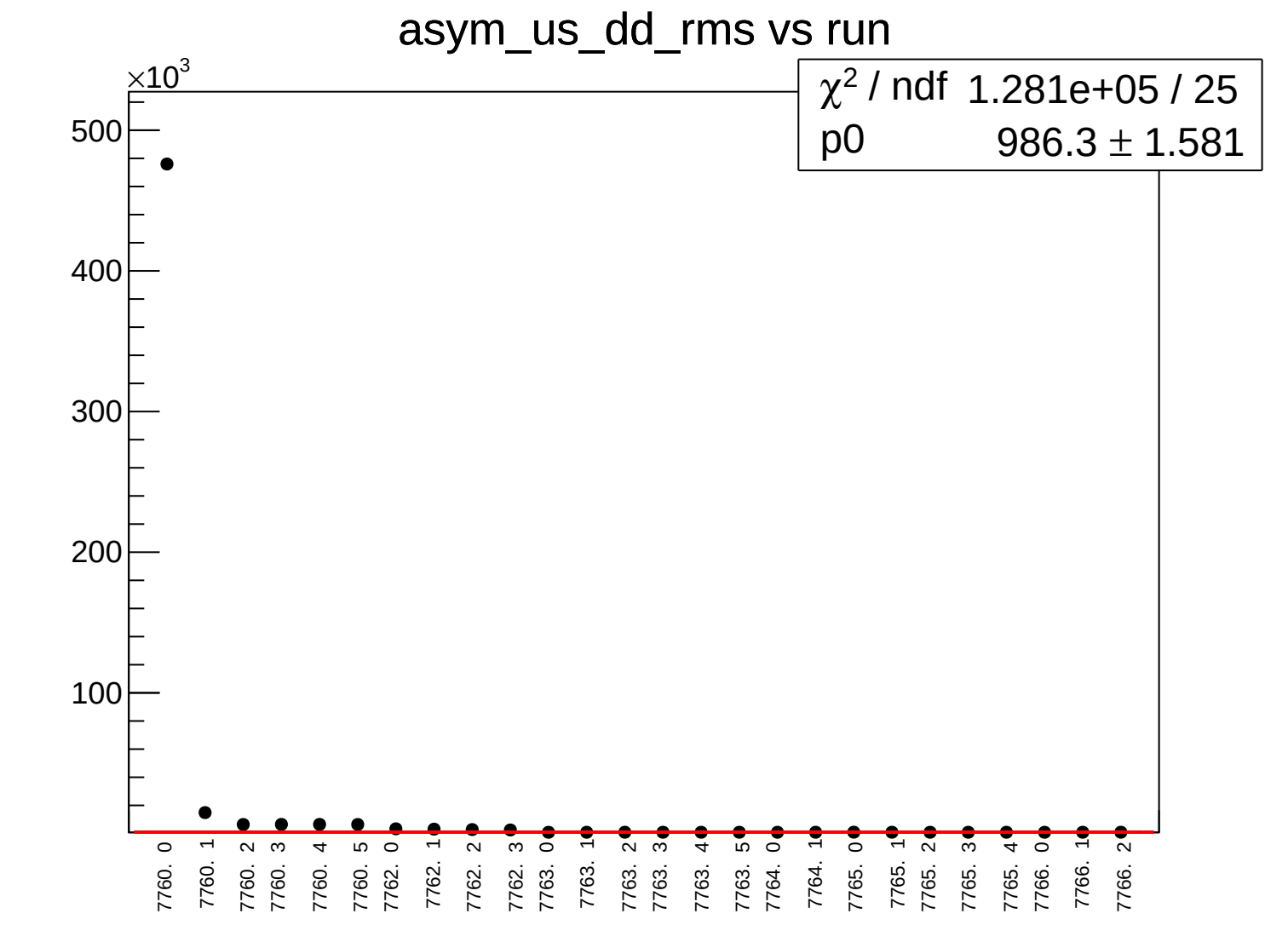

asym_us_dd_correction_mean vs run
×10^3
χ² / ndf 33.28 / 25
p0 −978.6 ± 1126
20
0
−20
−40
−60
−80
−100
−120
−140
−160
−180
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −14.71
Std Dev 27.16
3
2
1
0
−1
−2

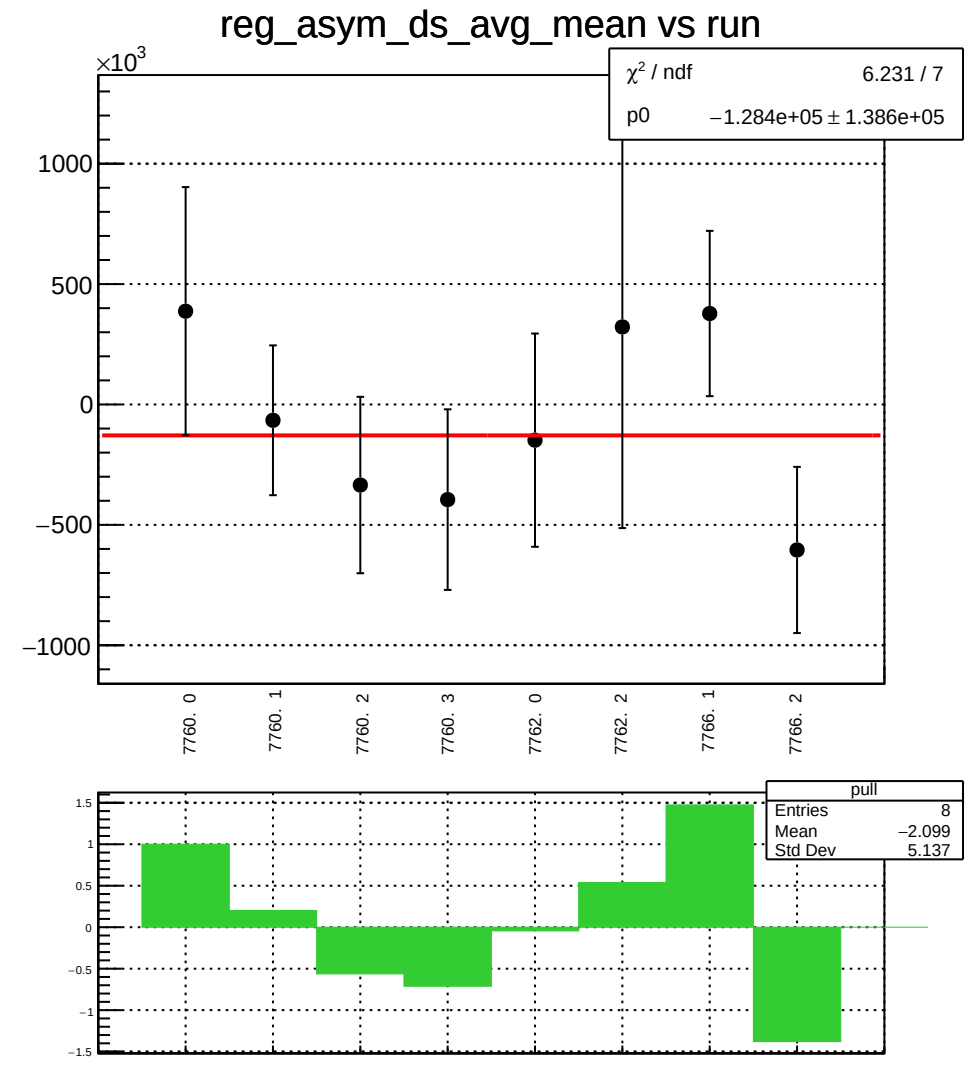

pull1D
Entries 26
Mean −0.09308
Std Dev 1.128
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

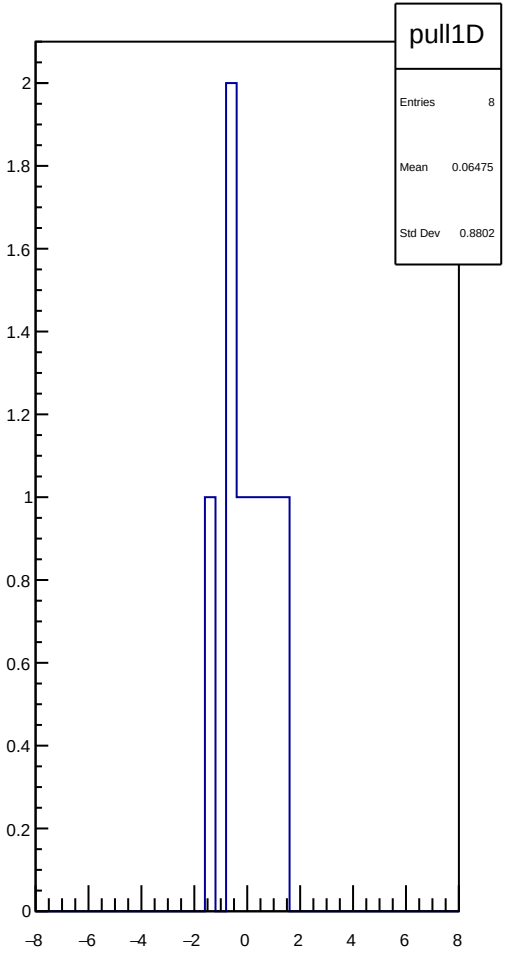

asym_us_dd_correction_rms vs run
χ² / ndf 1.735e+04 / 25
p0 563.3 ± 0.7965
7000
6000
5000
4000
3000
2000
1000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

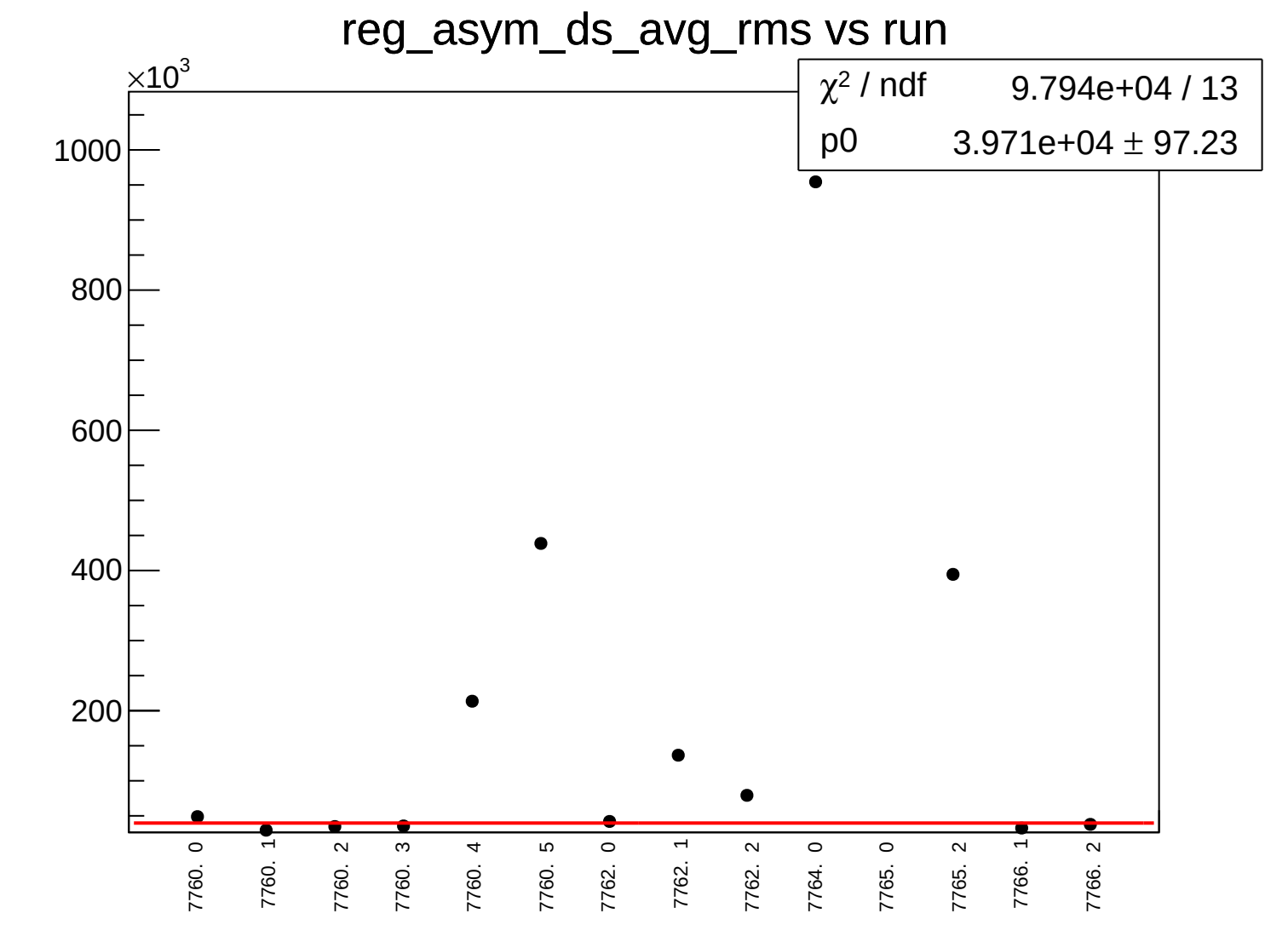

asym_us_dd_mean vs run
×10^3
χ² / ndf 27.37 / 24
p0 −951.7 ± 2235
100
0
−100
−200
−300
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −2.298
Std Dev 16.61
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

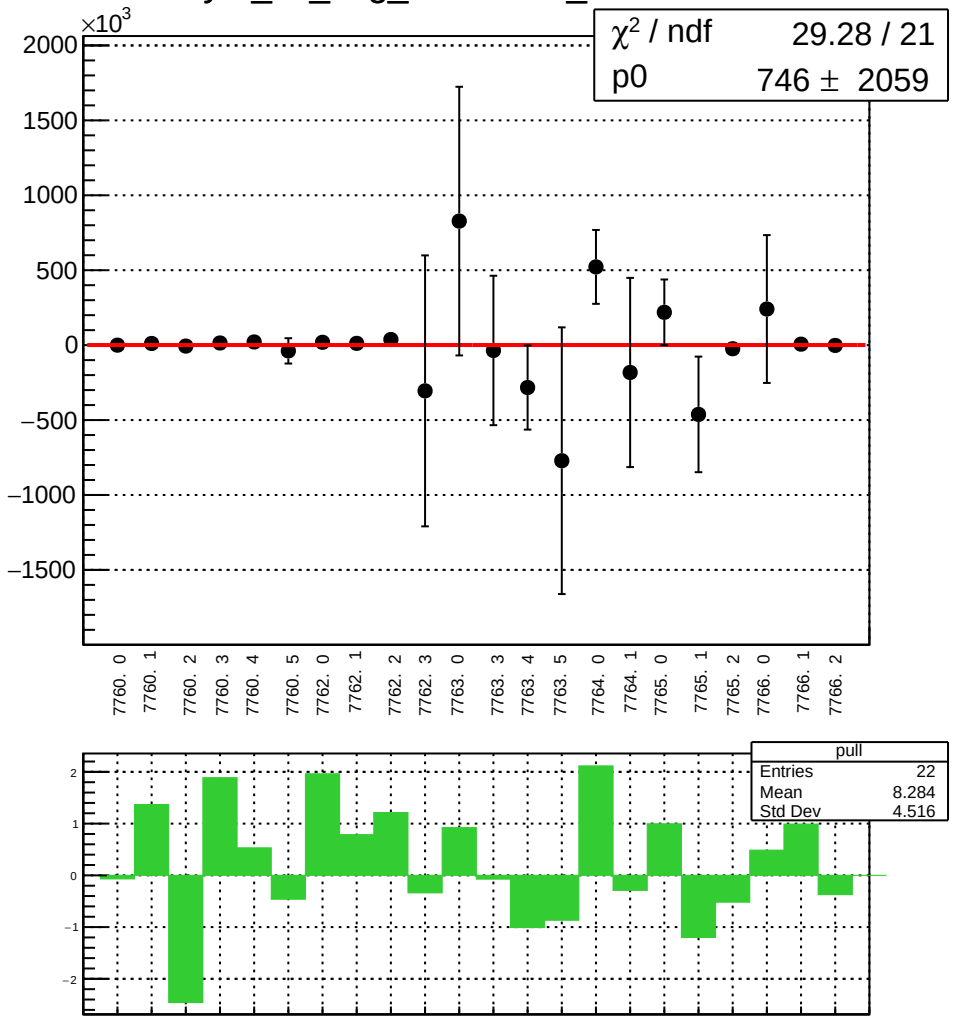

pull1D
Entries 25
Mean 0.1438
Std Dev 1.036
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

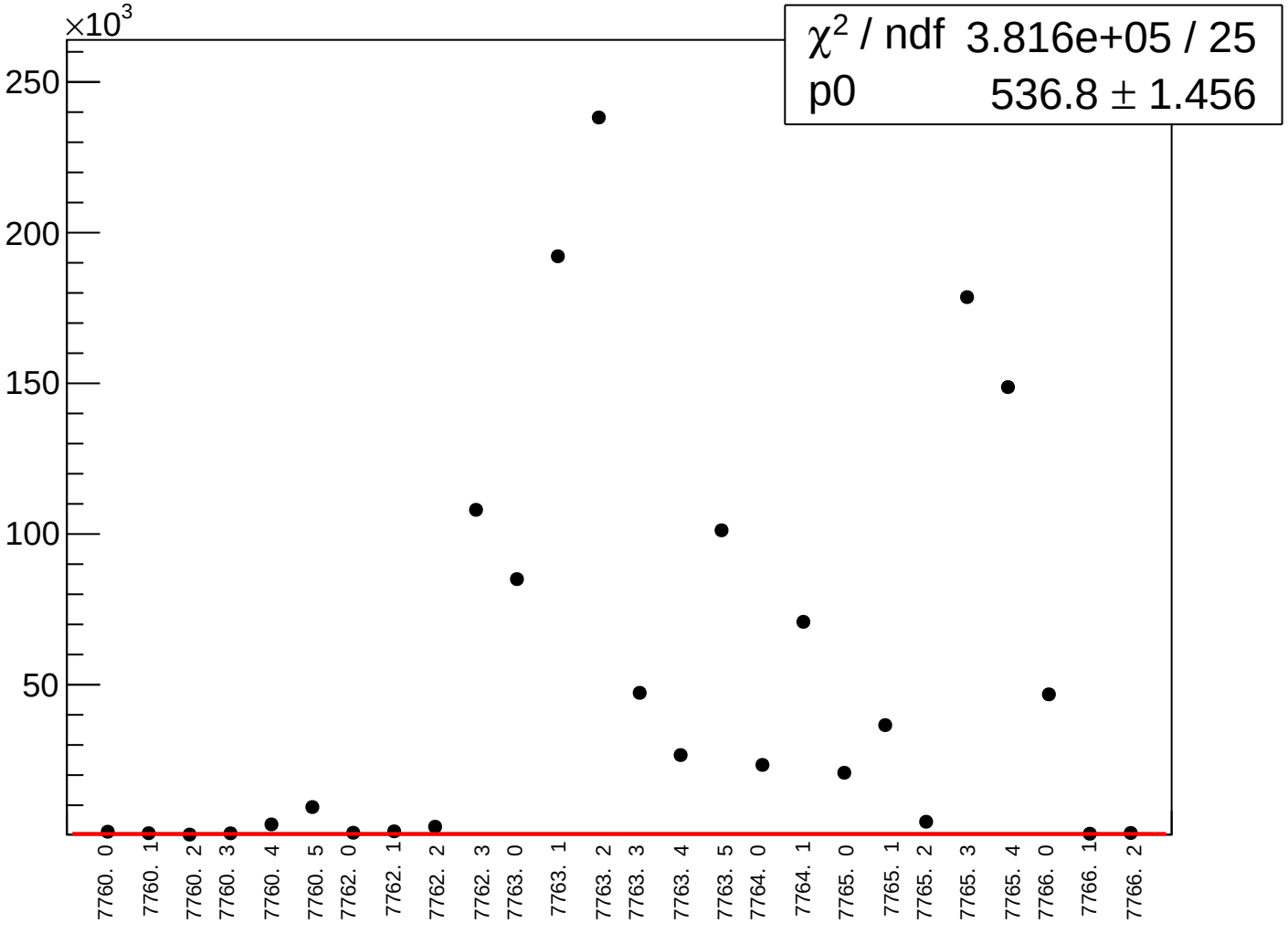

asym_us_dd_rms vs run
×10^3
500
400
300
200
100
χ² / ndf 1.281e+05 / 25
p0 986.3 ± 1.581
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

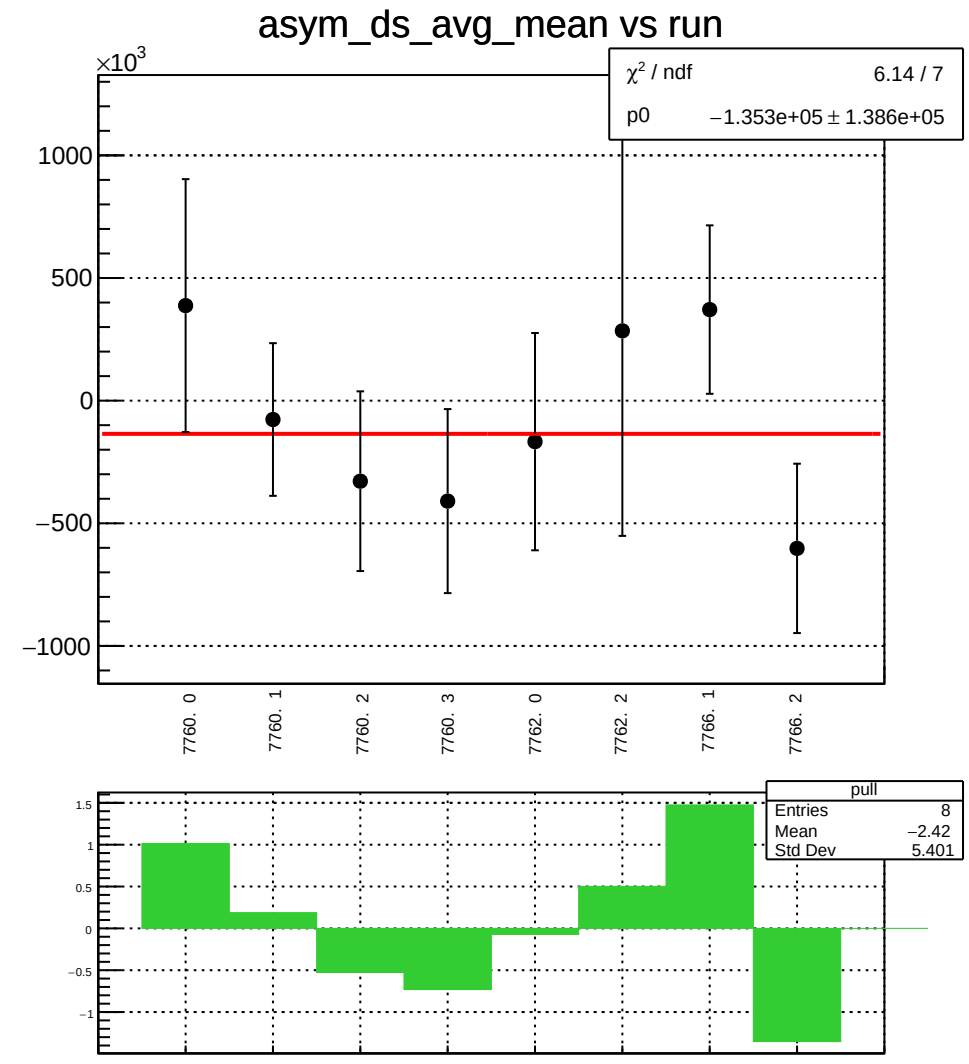

reg_asym_ds_avg_mean vs run
×10^3
χ² / ndf 6.231 / 7
p0 −1.284e+05 ± 1.386e+05
1000
500
0
−500
−1000
7760. 0
7760. 1
7760. 2
7760. 3
7762. 0
7762. 2
7766. 1
7766. 2
pull
Entries 8
Mean −2.099
Std Dev 5.137
1.5
1
0.5
0
−0.5
−1
−1.5

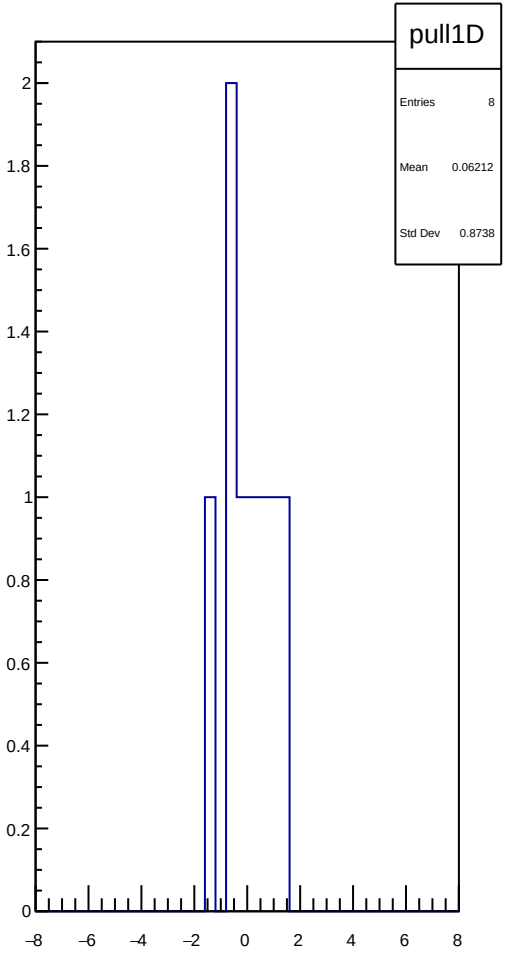

pull1D
Entries 8
Mean 0.06475
Std Dev 0.8802
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

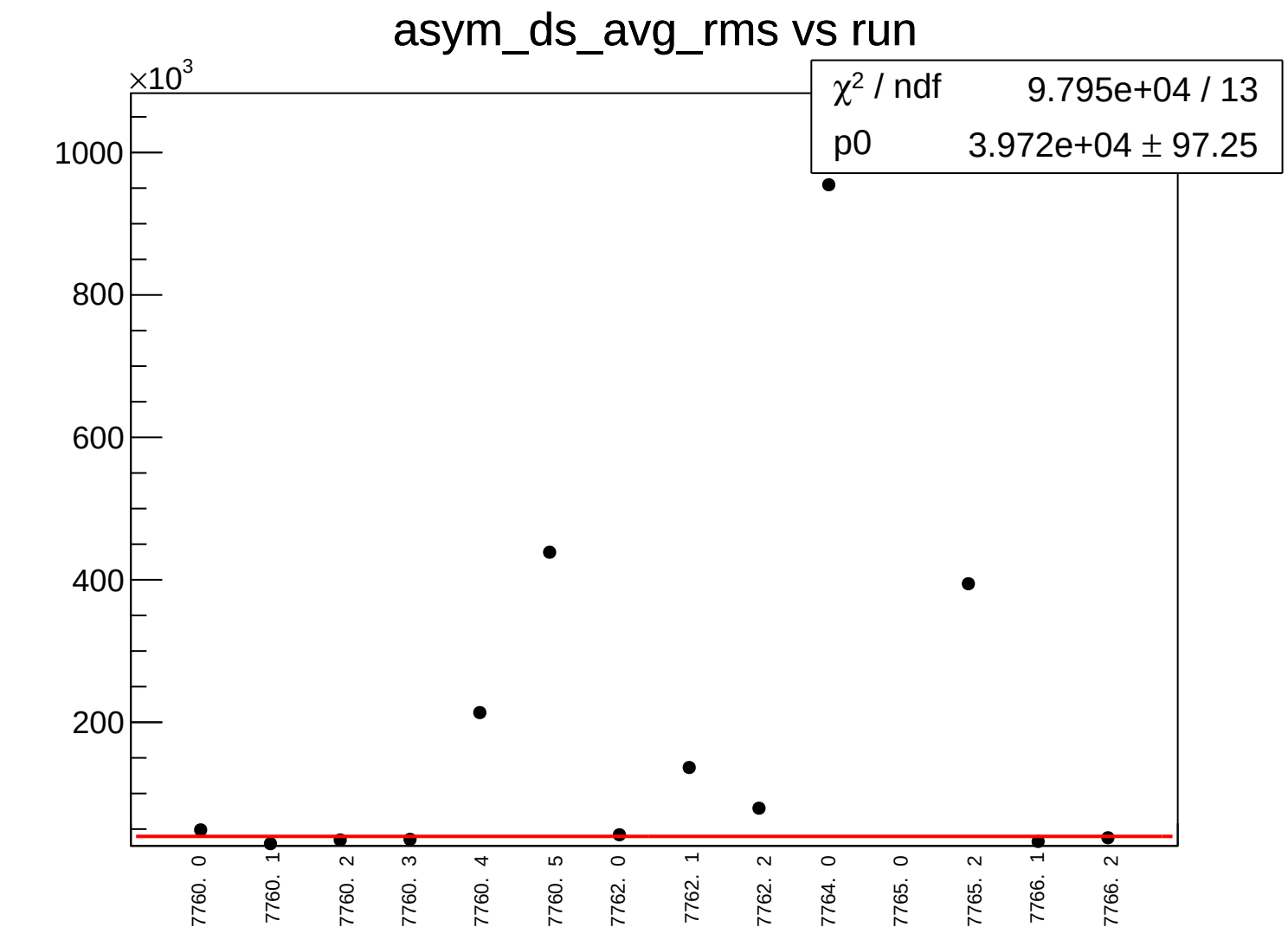

reg_asym_ds_avg_rms vs run
×10^3
χ² / ndf 9.794e+04 / 13
p0 3.971e+04 ± 97.23
1000
800
600
400
200
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7764. 0
7765. 0
7765. 2
7766. 1
7766. 2

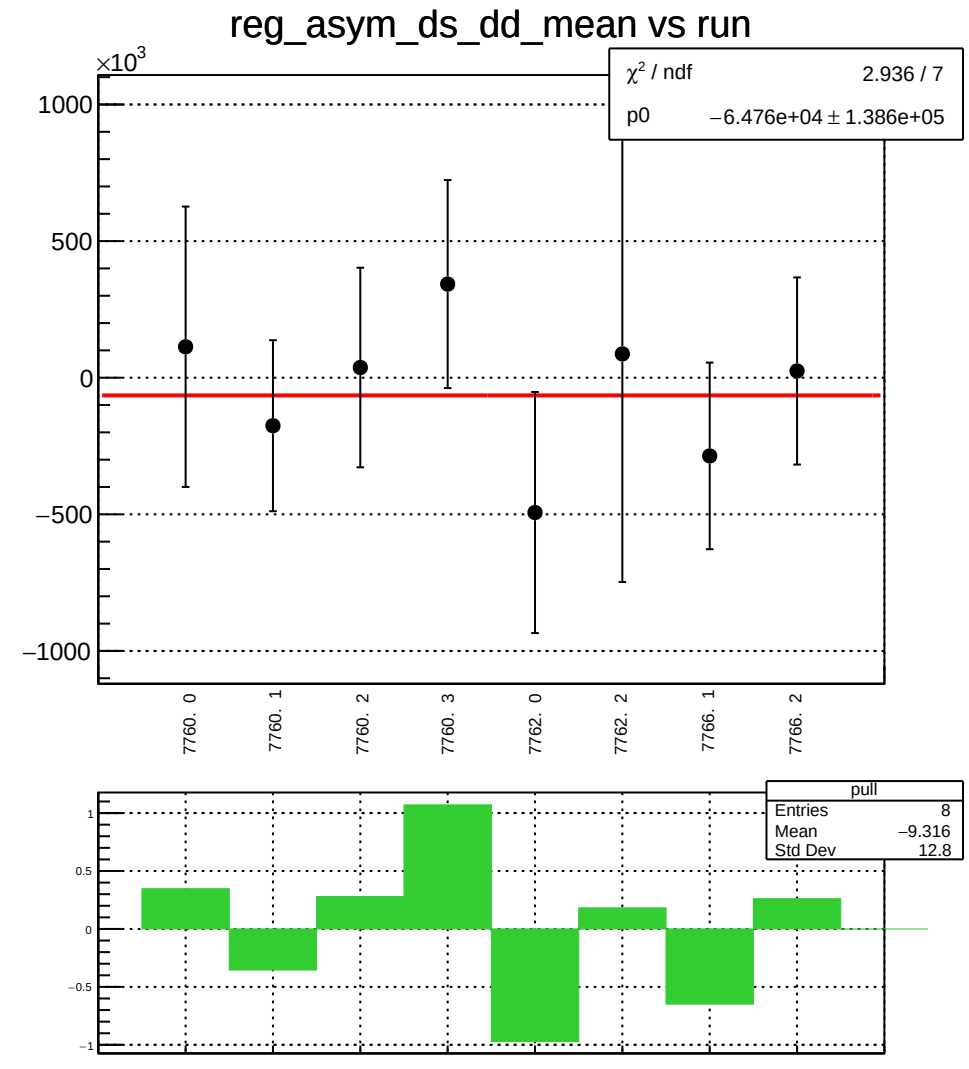

asym_ds_avg_correction_mean vs run
×10^3
χ^2 / ndf 29.28 / 21
p0 746 ± 2059
2000
1500
1000
500
0
−500
−1000
−1500
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7766. 0
7766. 1
7766. 2
pull
Entries 22
Mean 8.284
Std Dev 4.516
pull1D
Entries 22
Mean 0.2548
Std Dev 1.125

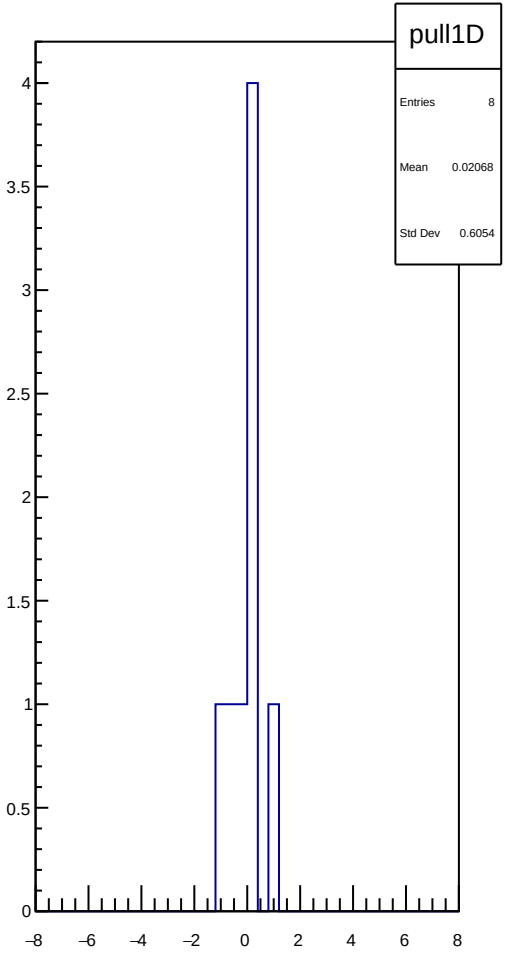

asym_ds_avg_correction_rms vs run
×10^3
χ^2 / ndf 3.816e+05 / 25
p0 536.8 ± 1.456
250
200
150
100
50
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

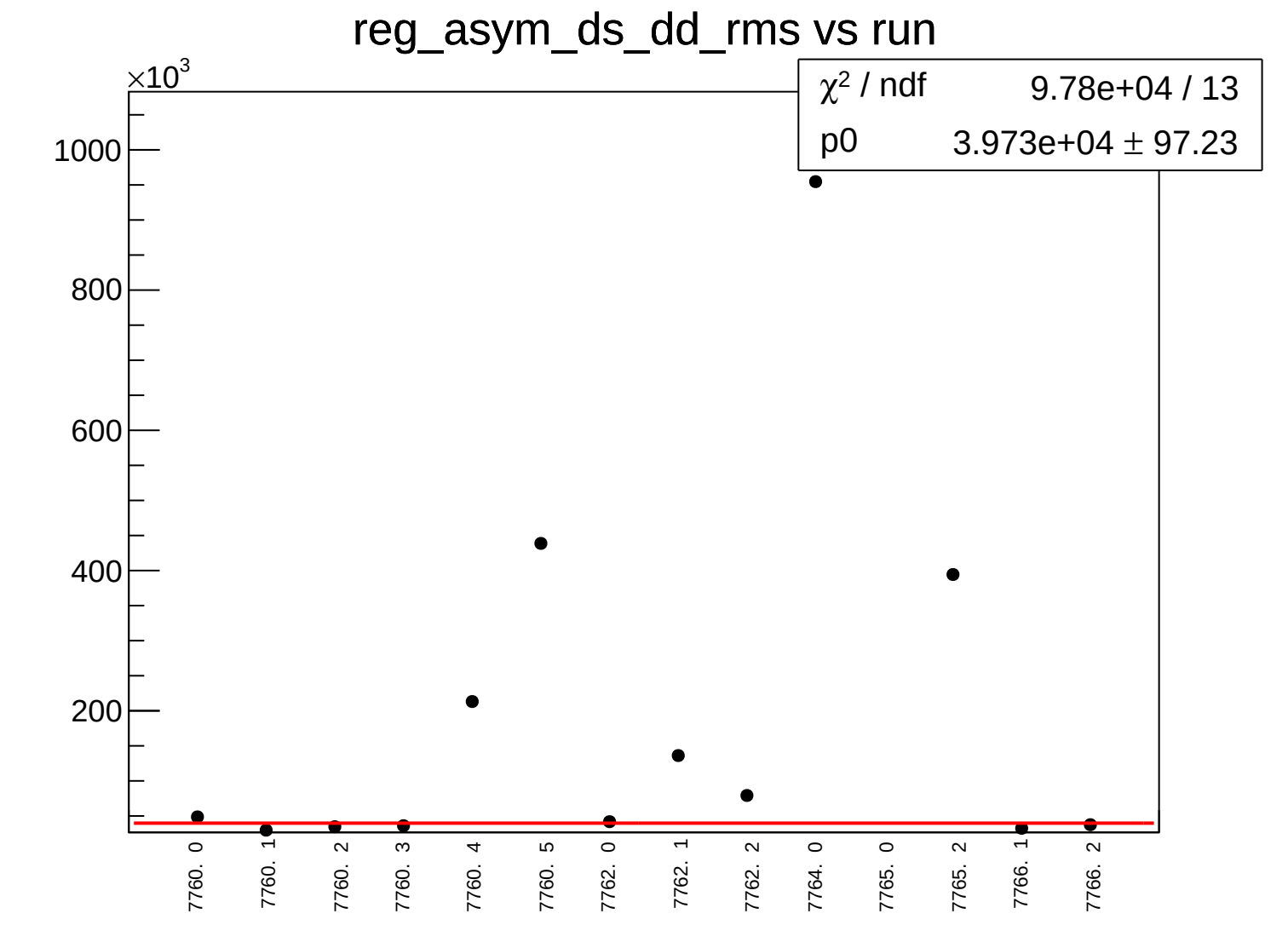

asym_ds_avg_mean vs run
×10^3
χ² / ndf 6.14 / 7
p0 −1.353e+05 ± 1.386e+05
1000
500
0
−500
−1000
7760. 0
7760. 1
7760. 2
7760. 3
7762. 0
7762. 2
7766. 1
7766. 2
pull
Entries 8
Mean −2.42
Std Dev 5.401
1.5
1
0.5
0
−0.5
−1

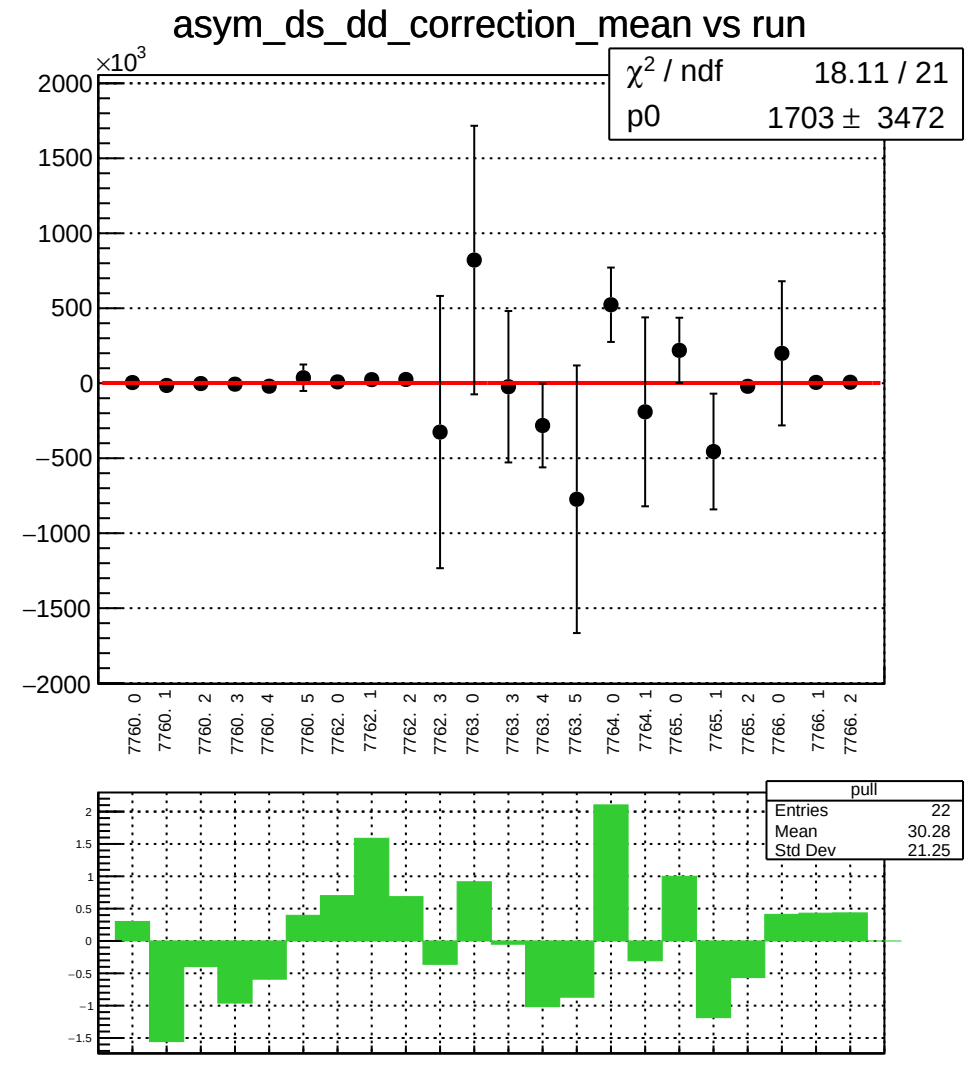

pull1D
Entries 8
Mean 0.06212
Std Dev 0.8738
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

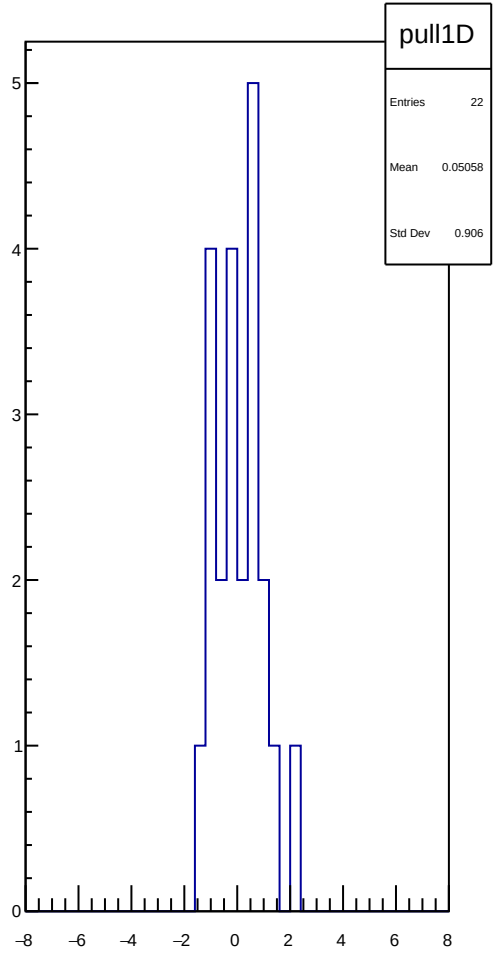

asym_ds_avg_rms vs run
×10^3
1000
800
600
400
200
χ² / ndf 9.795e+04 / 13
p0 3.972e+04 ± 97.25
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7764. 0
7765. 0
7765. 2
7766. 1
7766. 2

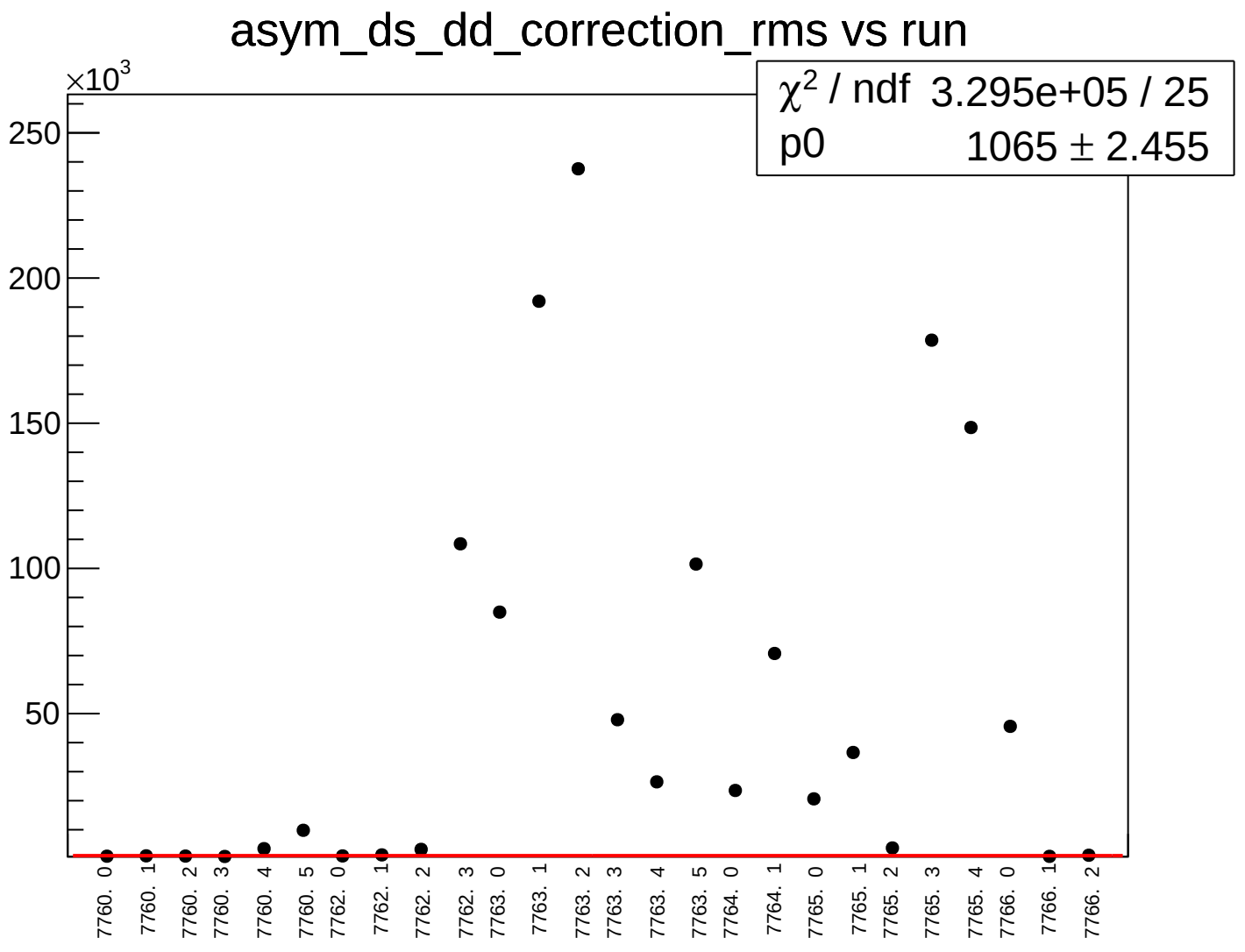

reg_asym_ds_dd_mean vs run
×10^3
χ² / ndf 2.936 / 7
p0 −6.476e+04 ± 1.386e+05
1000
500
0
−500
−1000
7760. 0
7760. 1
7760. 2
7760. 3
7762. 0
7762. 2
7766. 1
7766. 2
pull
Entries 8
Mean −9.316
Std Dev 12.8
1
0.5
0
−0.5
−1

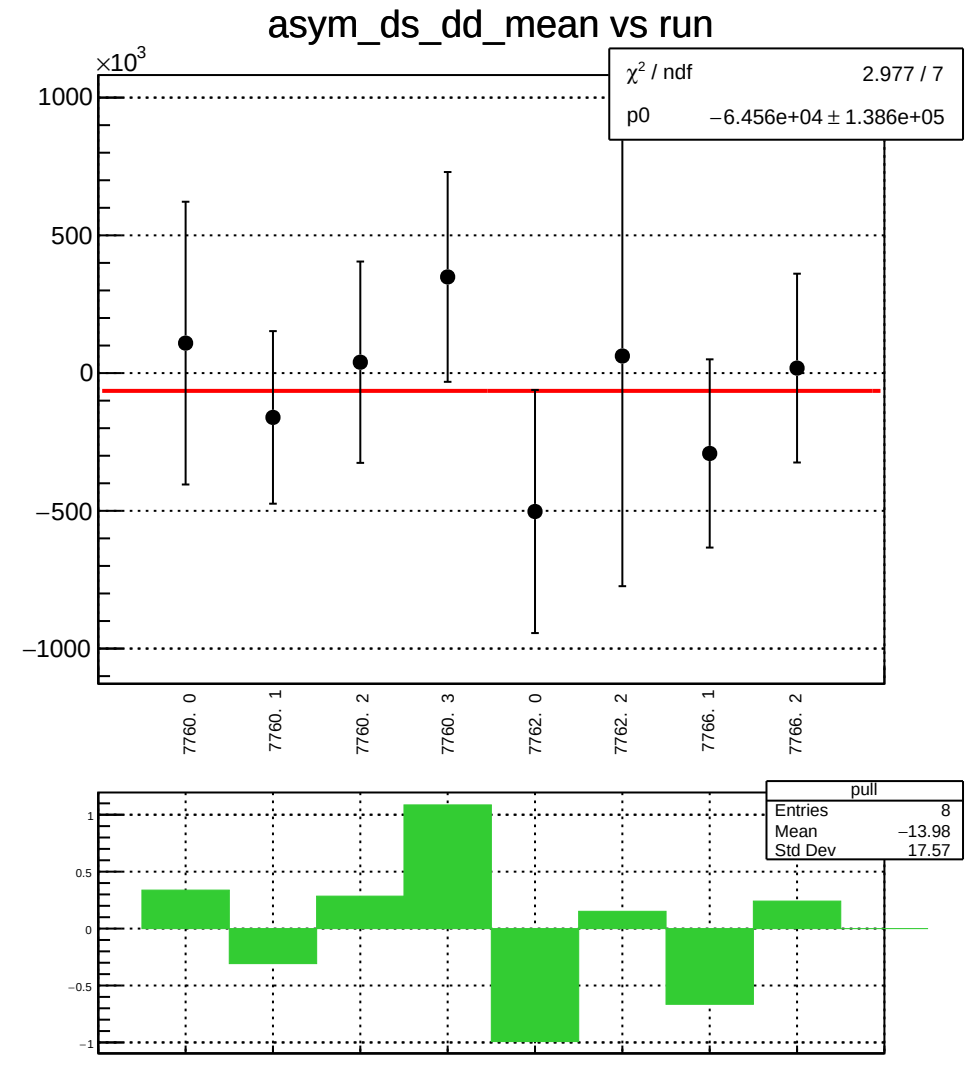

pull1D
Entries 8
Mean 0.02068
Std Dev 0.6054
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

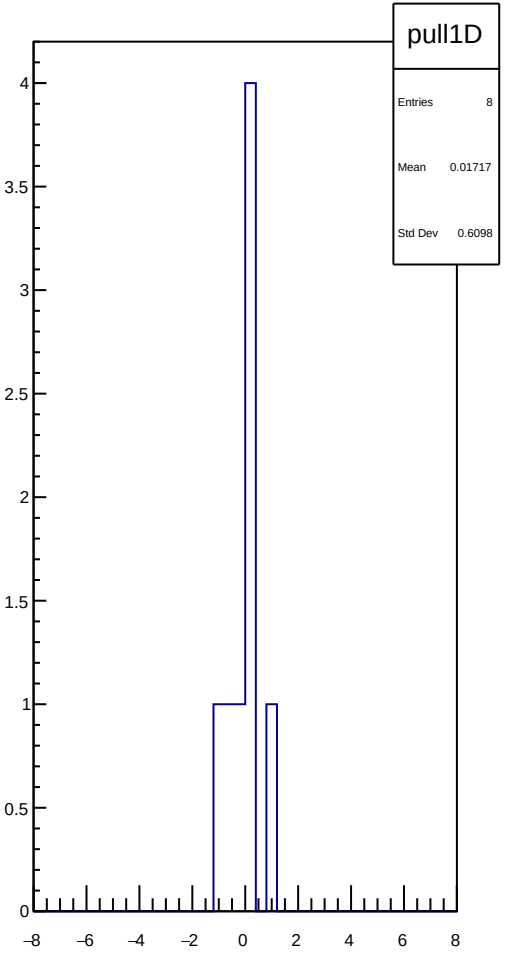

reg_asym_ds_dd_rms vs run
×10^3
1000
800
600
400
200
χ² / ndf 9.78e+04 / 13
p0 3.973e+04 ± 97.23
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7764. 0
7765. 0
7765. 2
7766. 1
7766. 2

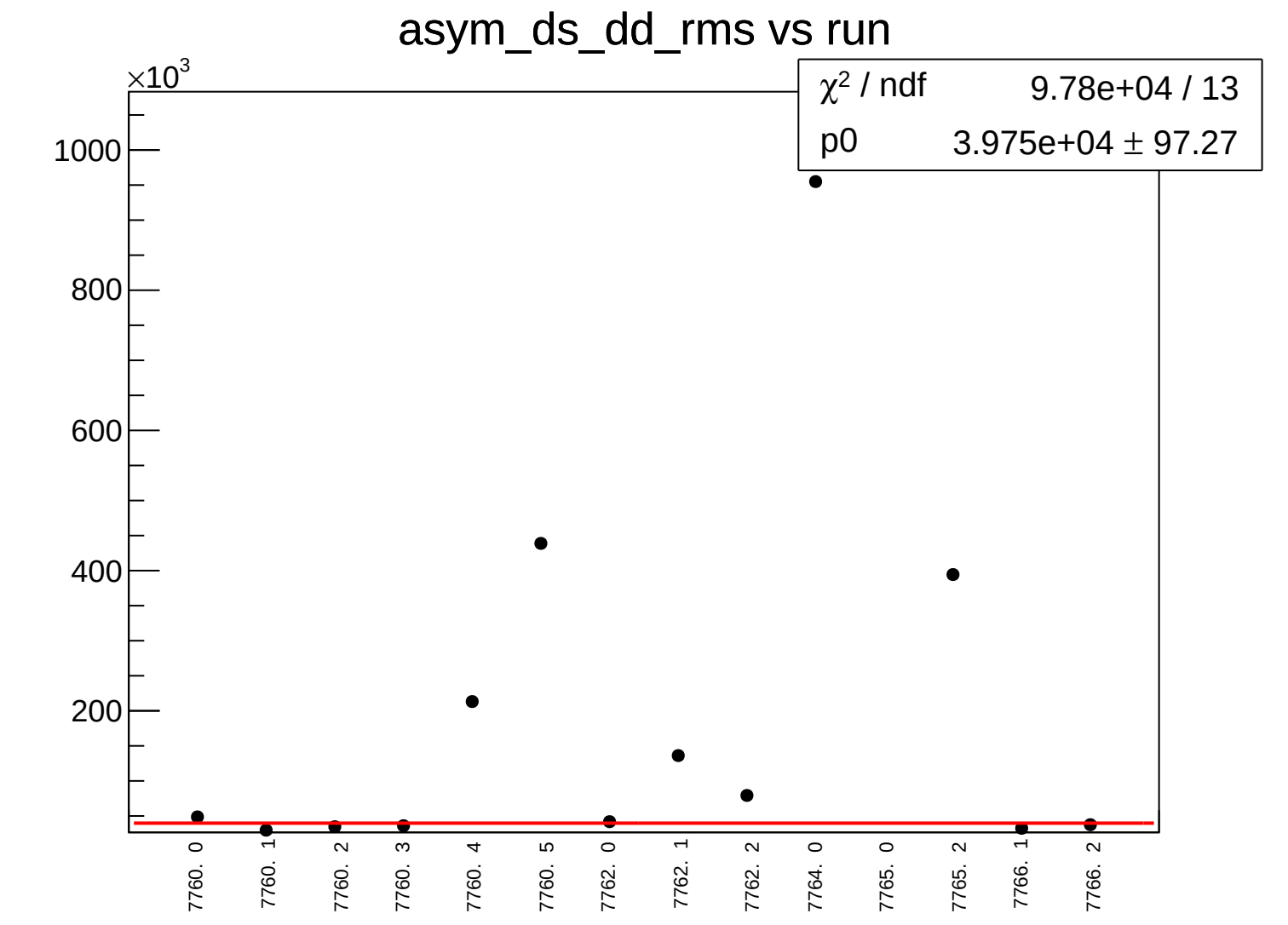

asym_ds_dd_correction_mean vs run
×10^3
χ^2 / ndf 18.11 / 21
p0 1703 ± 3472
2000
1500
1000
500
0
−500
−1000
−1500
−2000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7766. 0
7766. 1
7766. 2
pull
Entries 22
Mean 30.28
Std Dev 21.25
2
1.5
1
0.5
0
−0.5
−1
−1.5

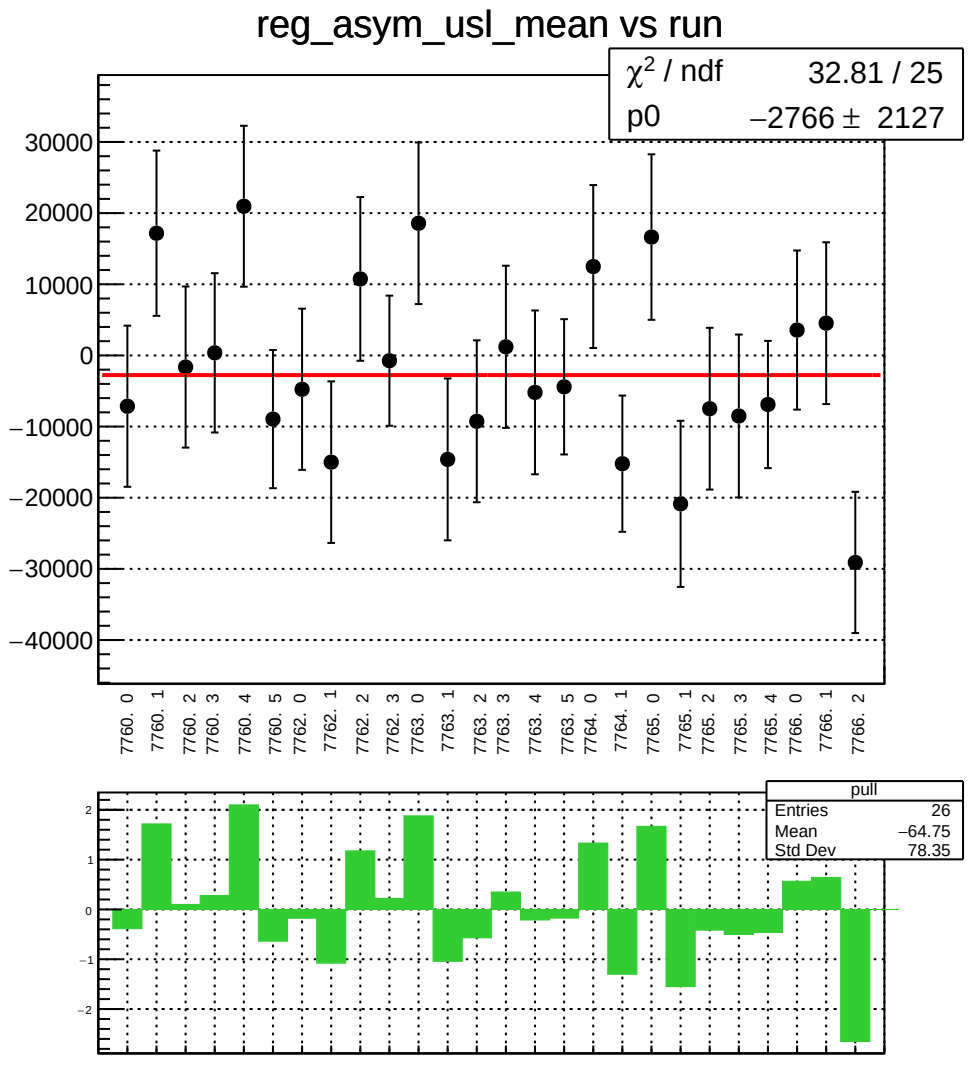

pull1D
Entries 22
Mean 0.05058
Std Dev 0.906
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

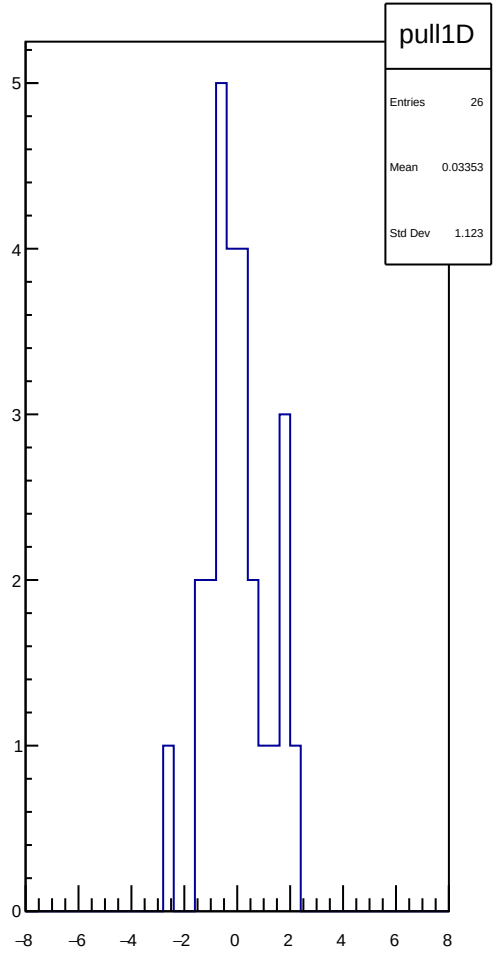

asym_ds_dd_correction_rms vs run
×10^3
χ² / ndf 3.295e+05 / 25
p0 1065 ± 2.455
250
200
150
100
50
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

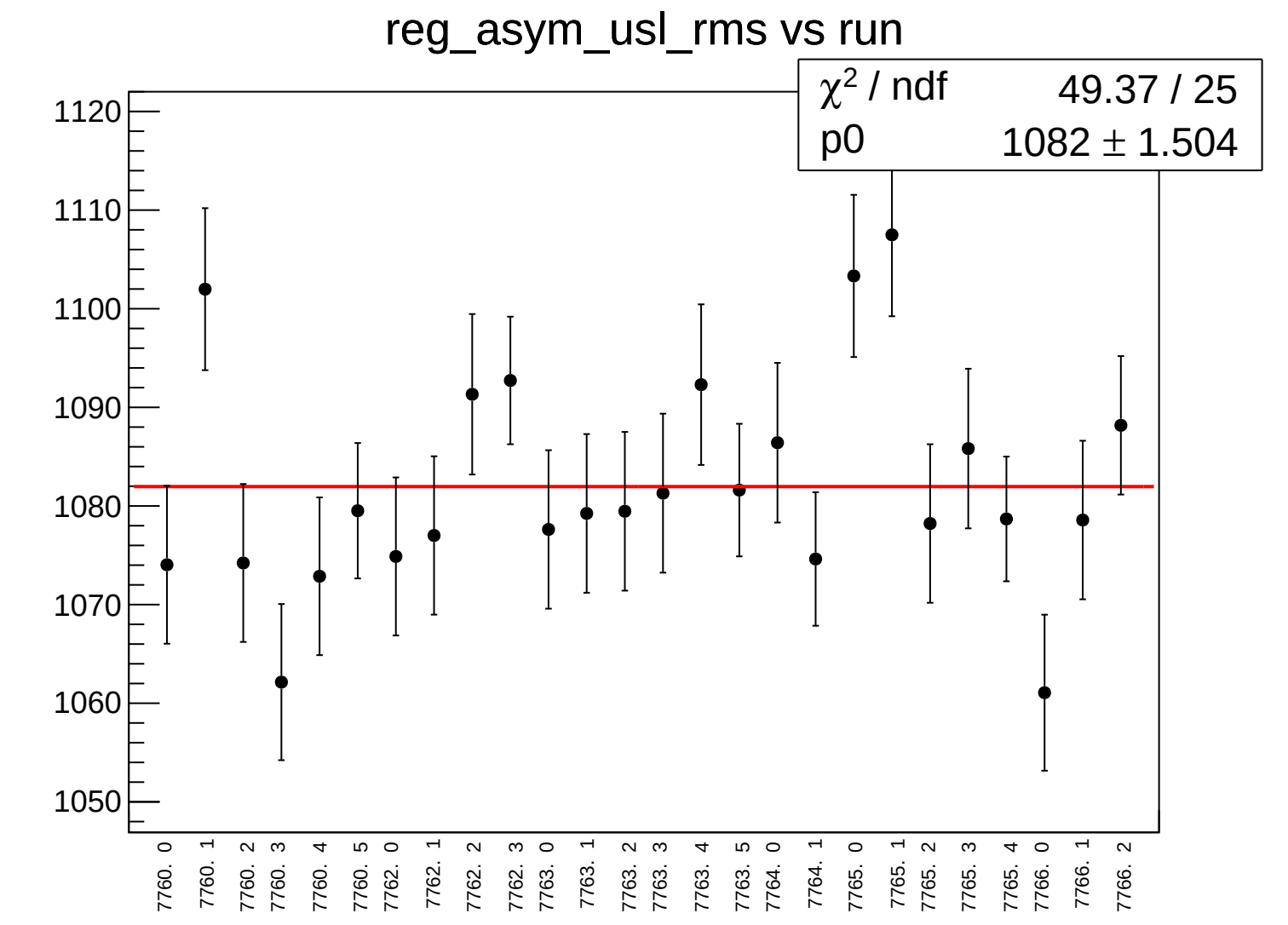

asym_ds_dd_mean vs run
×10^3
χ² / ndf 2.977 / 7
p0 −6.456e+04 ± 1.386e+05
1000
500
0
−500
−1000
7760. 0
7760. 1
7760. 2
7760. 3
7762. 0
7762. 2
7766. 1
7766. 2
pull
Entries 8
Mean −13.98
Std Dev 17.57
1
0.5
0
−0.5
−1

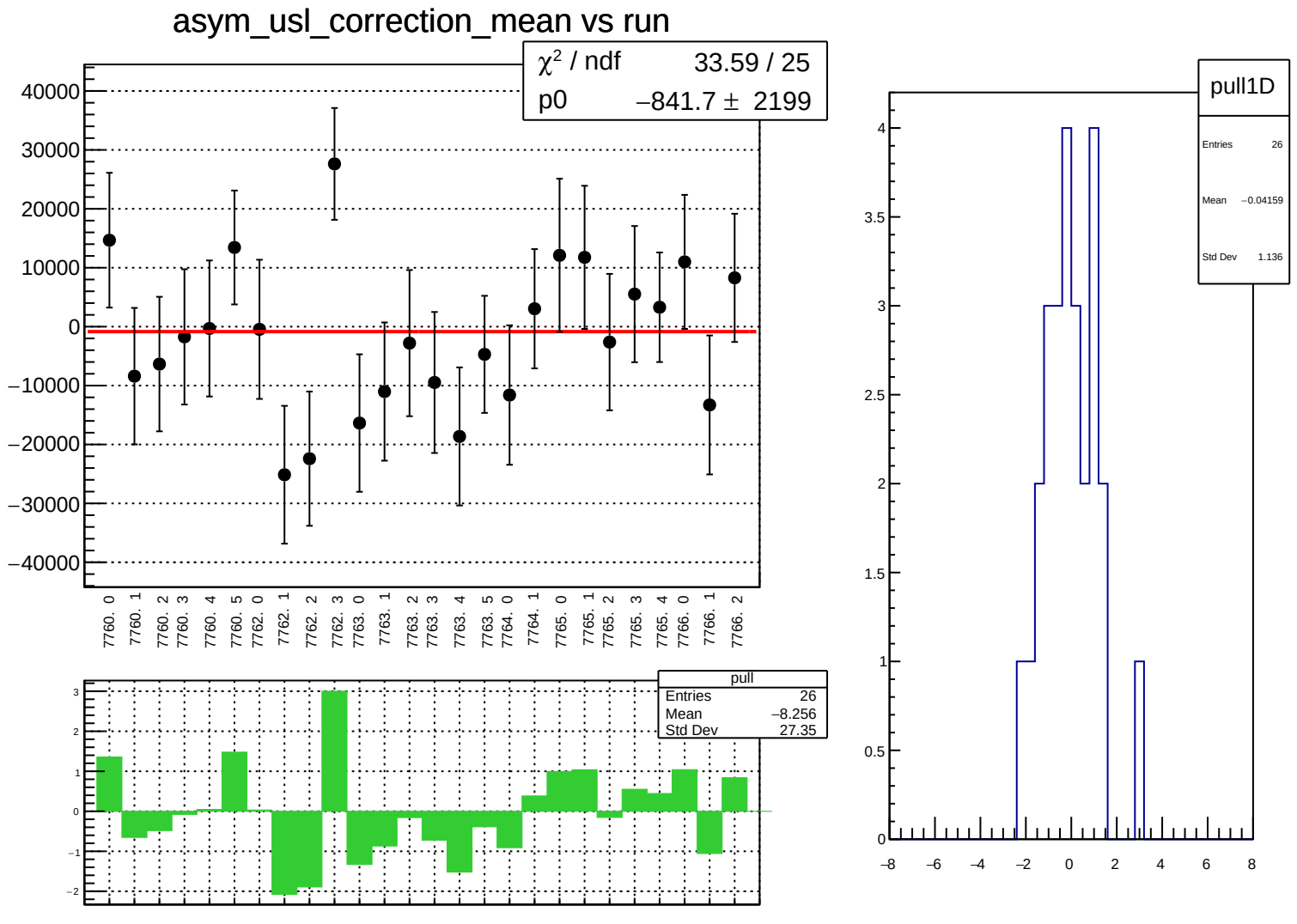

pull1D
Entries 8
Mean 0.01717
Std Dev 0.6098
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

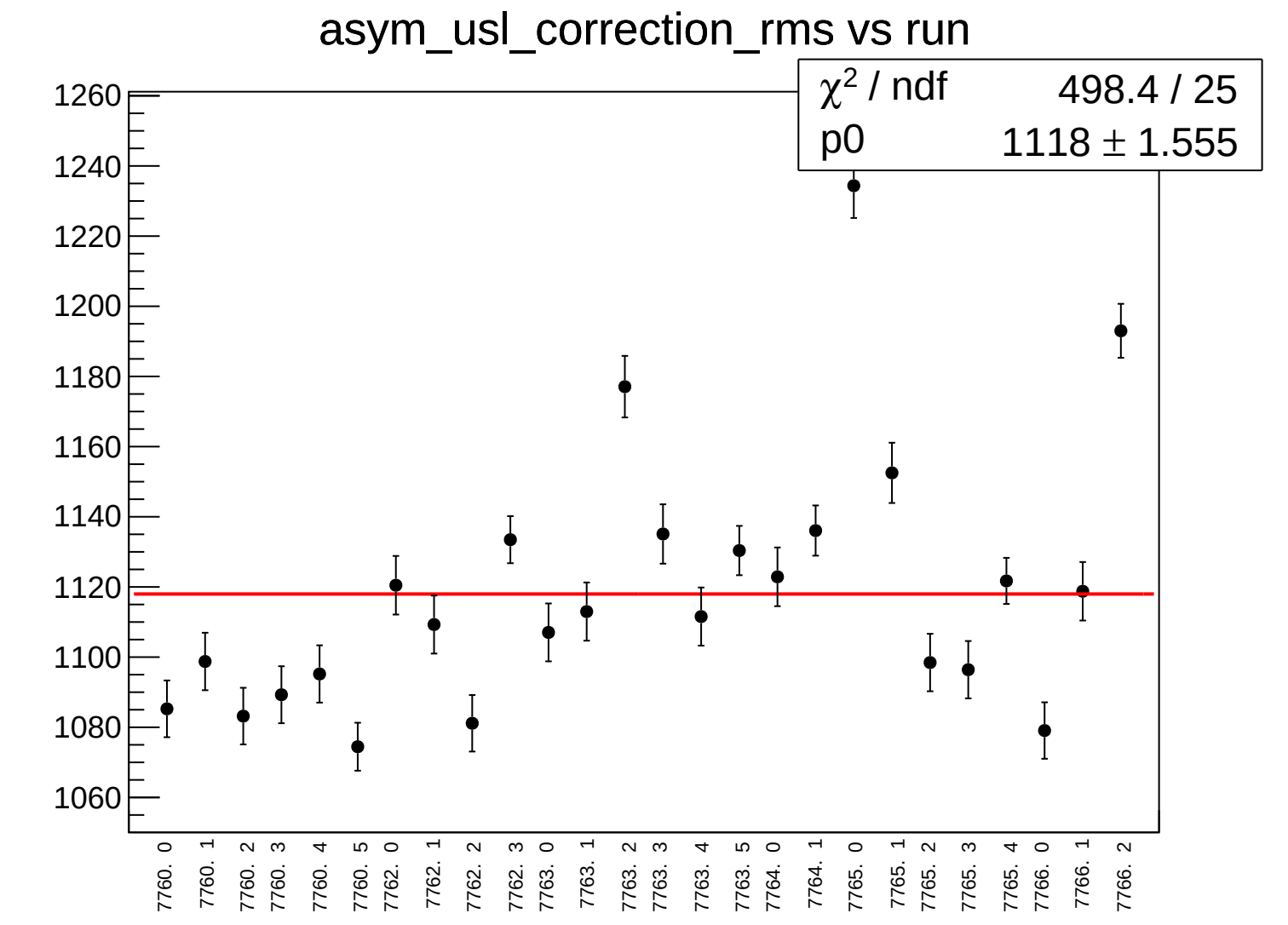

asym_ds_dd_rms vs run
×10^3
1000
800
600
400
200
χ² / ndf 9.78e+04 / 13
p0 3.975e+04 ± 97.27
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7764. 0
7765. 0
7765. 2
7766. 1
7766. 2

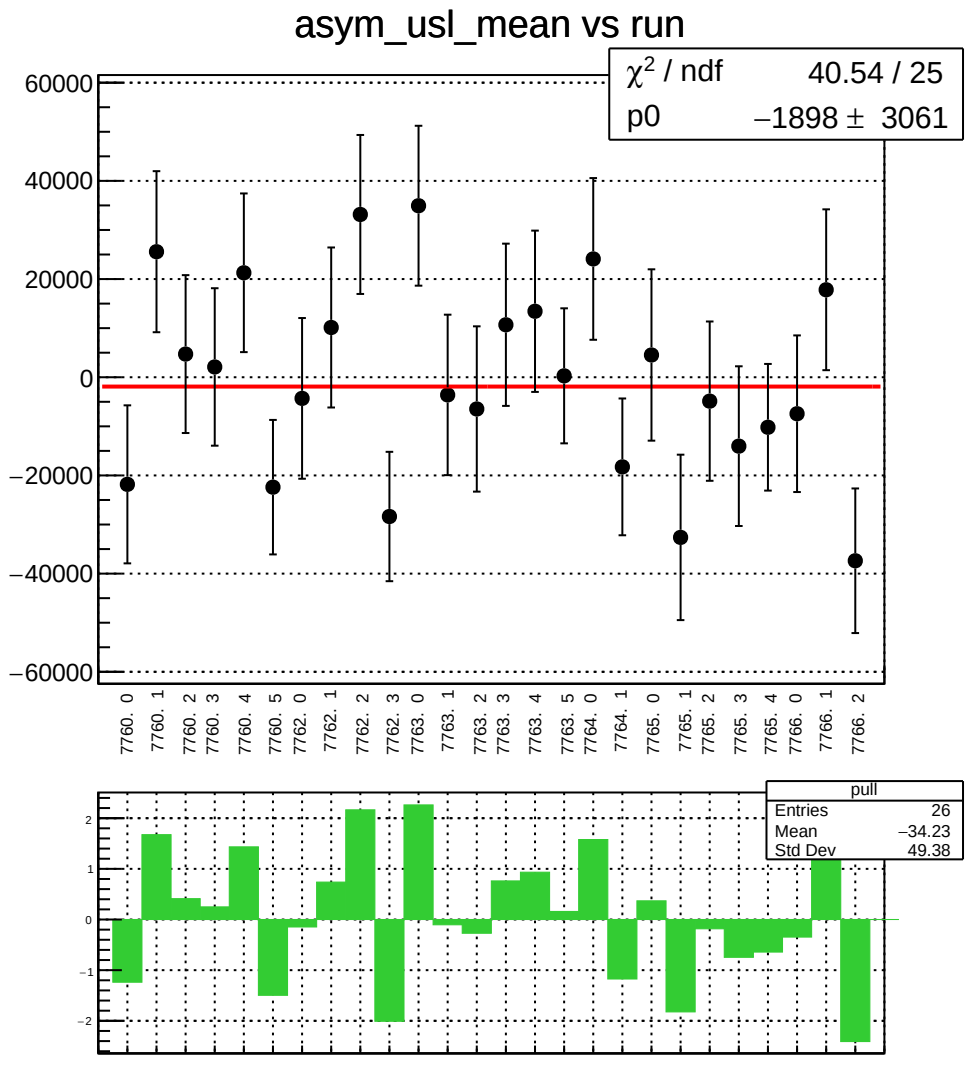

reg_asym_usl_mean vs run
χ² / ndf 32.81 / 25
p0 −2766 ± 2127
30000
20000
10000
0
−10000
−20000
−30000
−40000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −64.75
Std Dev 78.35
2
1
0
−1
−2

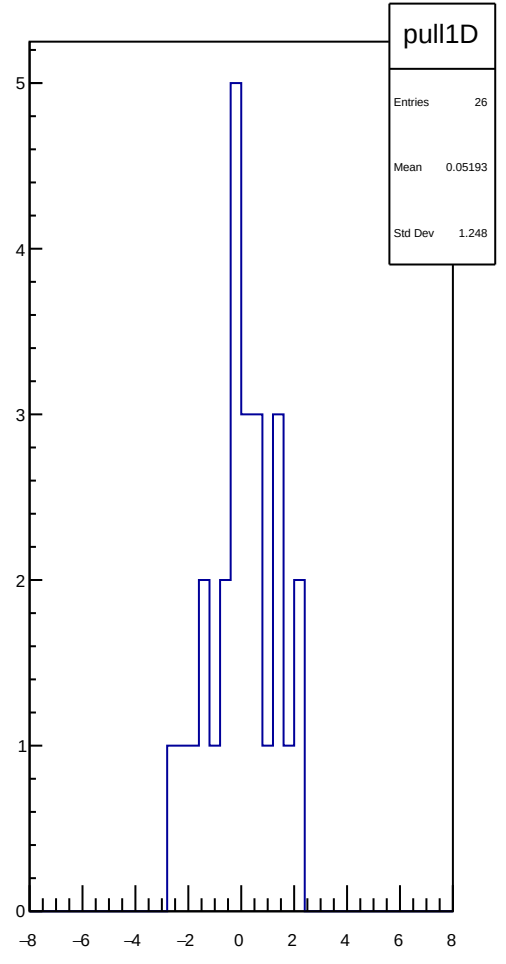

pull1D
Entries 26
Mean 0.03353
Std Dev 1.123
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

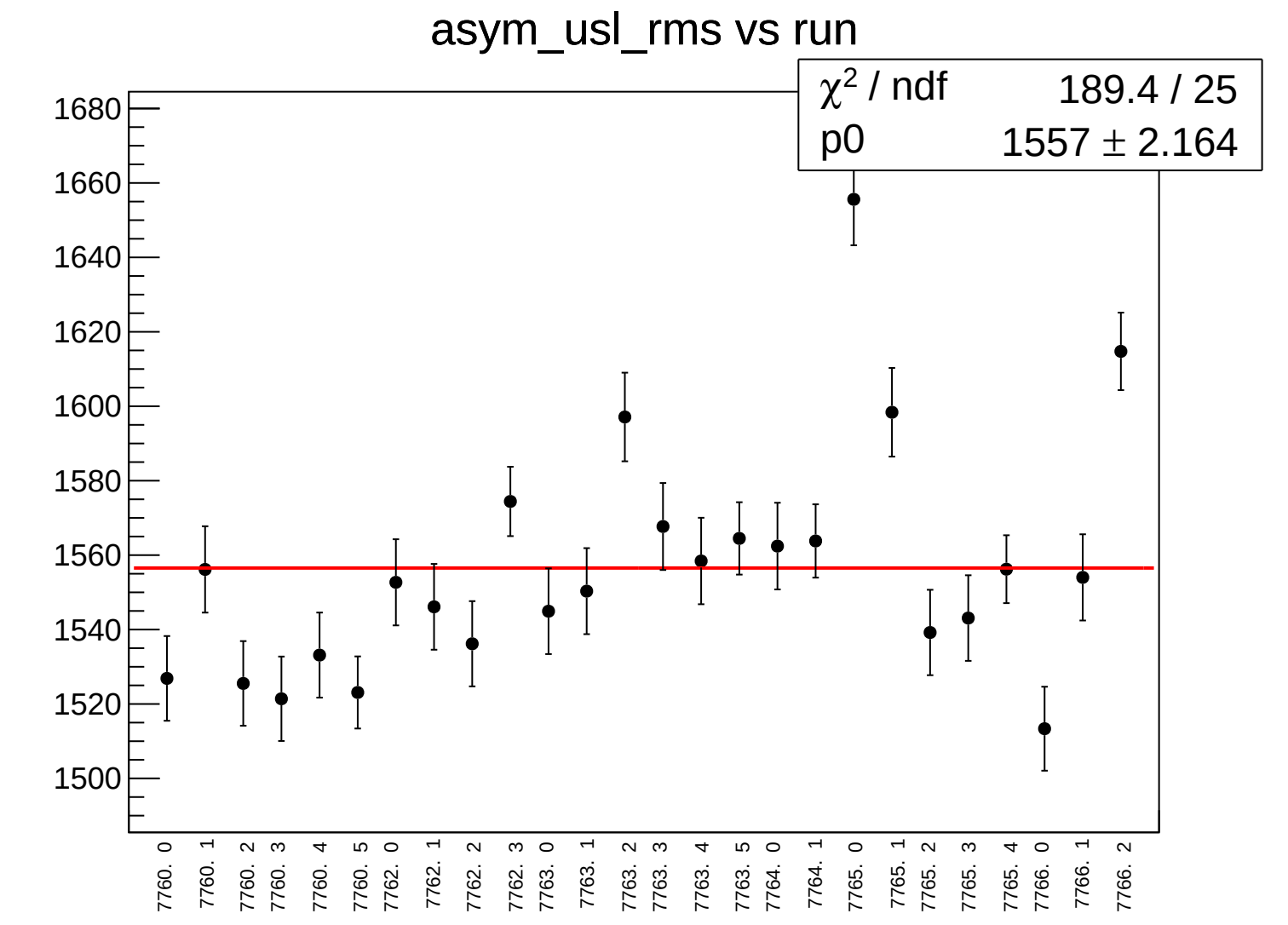

reg_asym_usl_rms vs run
χ² / ndf 49.37 / 25
p0 1082 ± 1.504
1120
1110
1100
1090
1080
1070
1060
1050
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

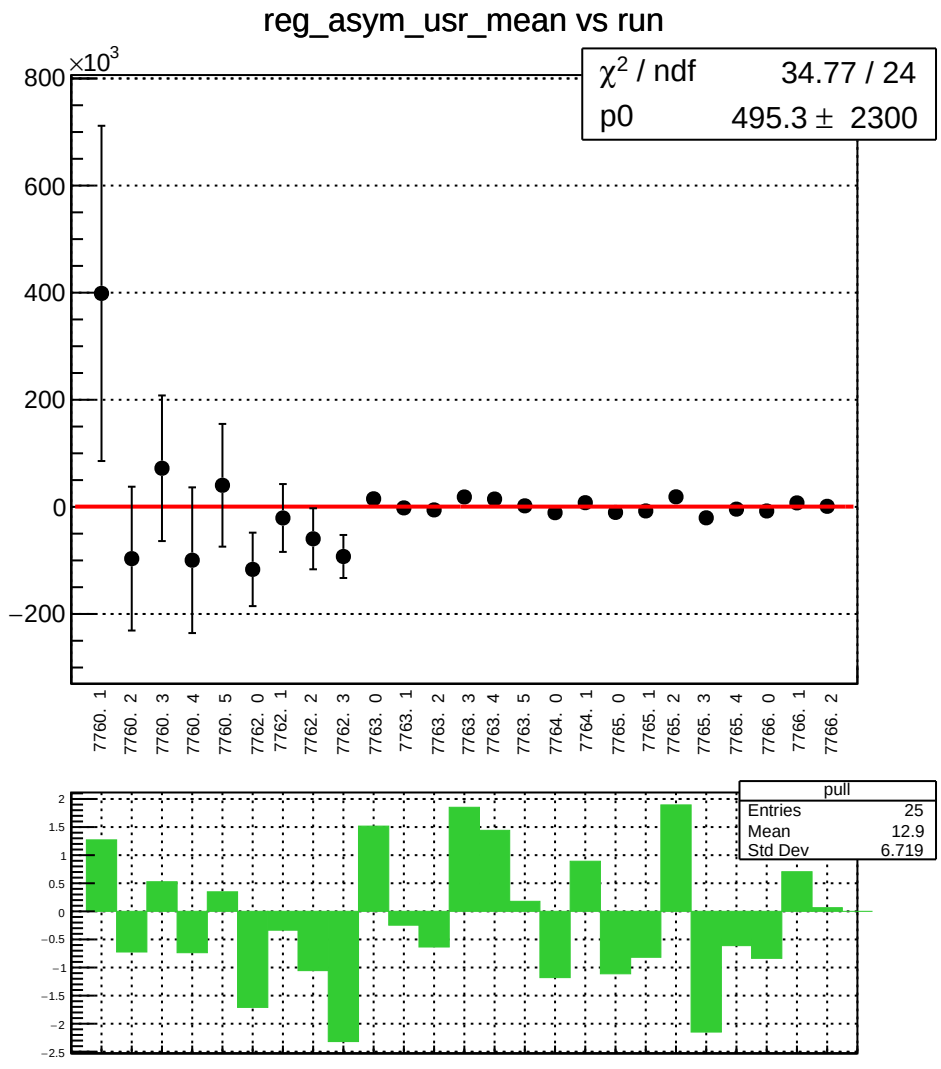

asym_usl_correction_mean vs run
χ² / ndf 33.59 / 25
p0 −841.7 ± 2199
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −8.256
Std Dev 27.35
3
2
1
0
−1
−2
pull1D
Entries 26
Mean −0.04159
Std Dev 1.136
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

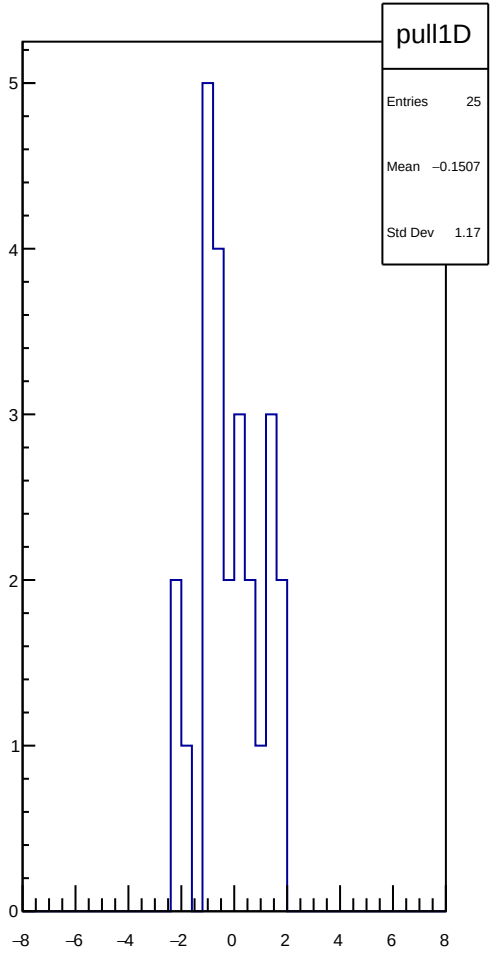

asym_usl_correction_rms vs run
χ² / ndf 498.4 / 25
p0 1118 ± 1.555
1260
1240
1220
1200
1180
1160
1140
1120
1100
1080
1060
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

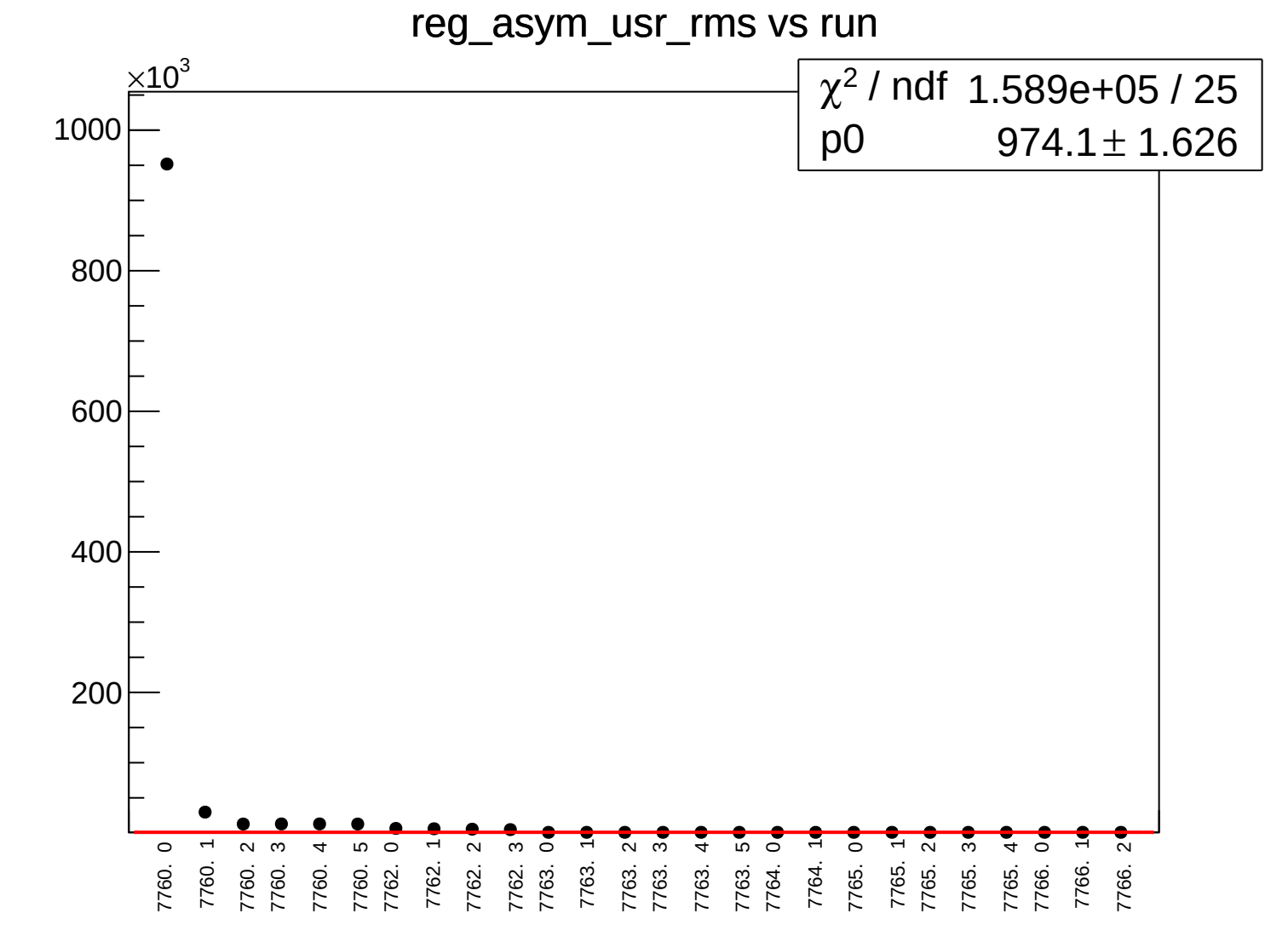

asym_usl_mean vs run
χ² / ndf 40.54 / 25
p0 −1898 ± 3061
60000
40000
20000
0
−20000
−40000
−60000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −34.23
Std Dev 49.38
2
1
0
−1
−2

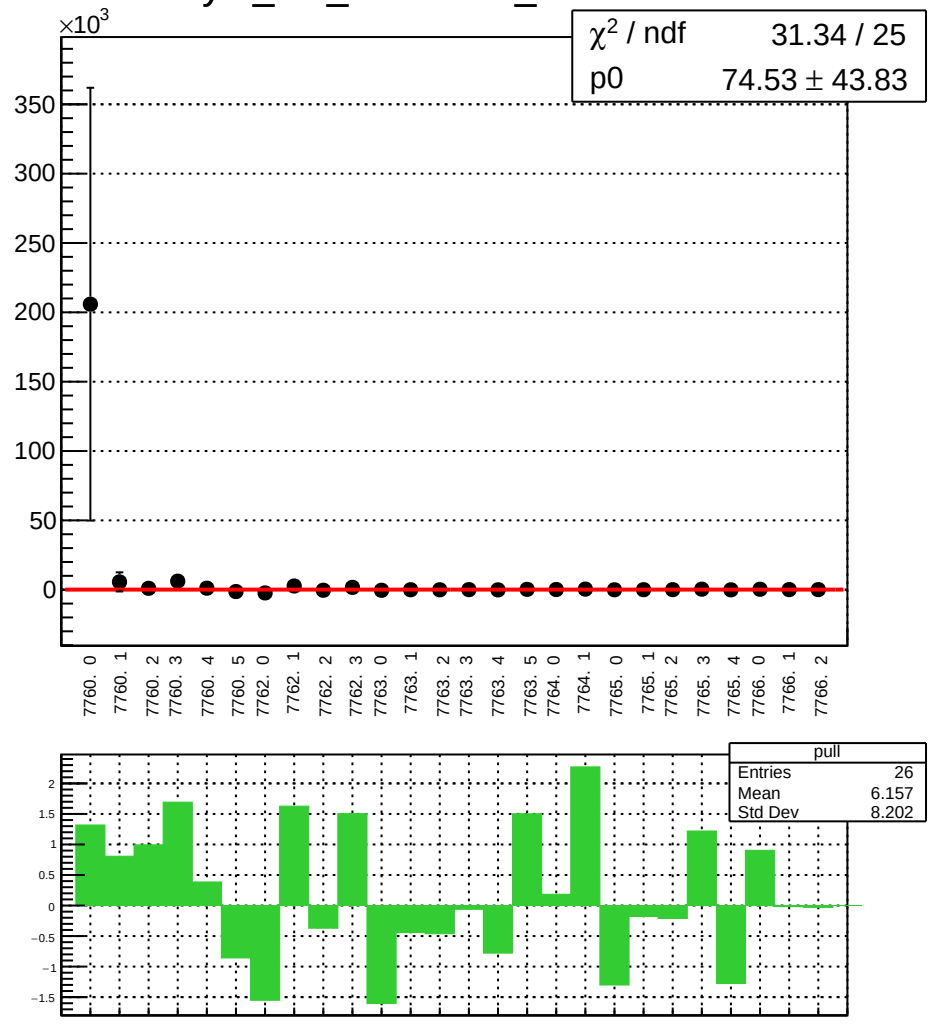

pull1D
Entries 26
Mean 0.05193
Std Dev 1.248
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

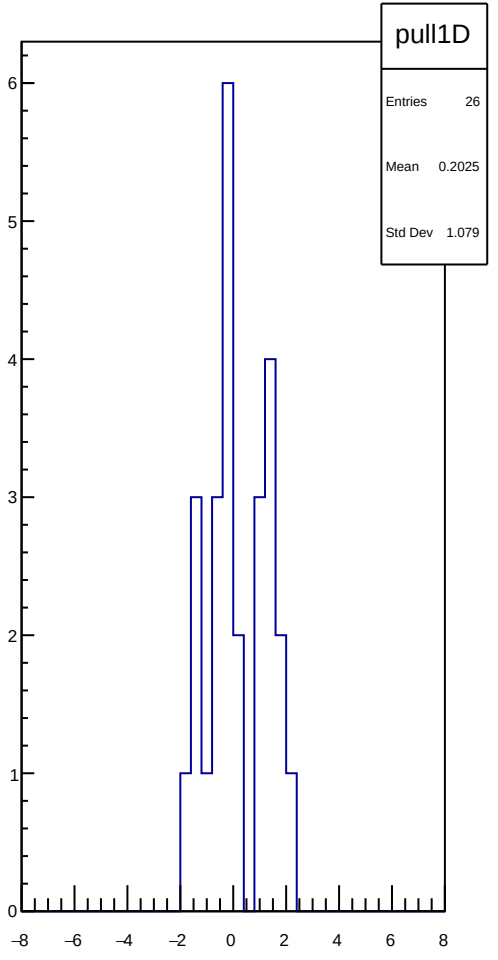

asym_usl_rms vs run
χ² / ndf 189.4 / 25
p0 1557 ± 2.164
1680
1660
1640
1620
1600
1580
1560
1540
1520
1500
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

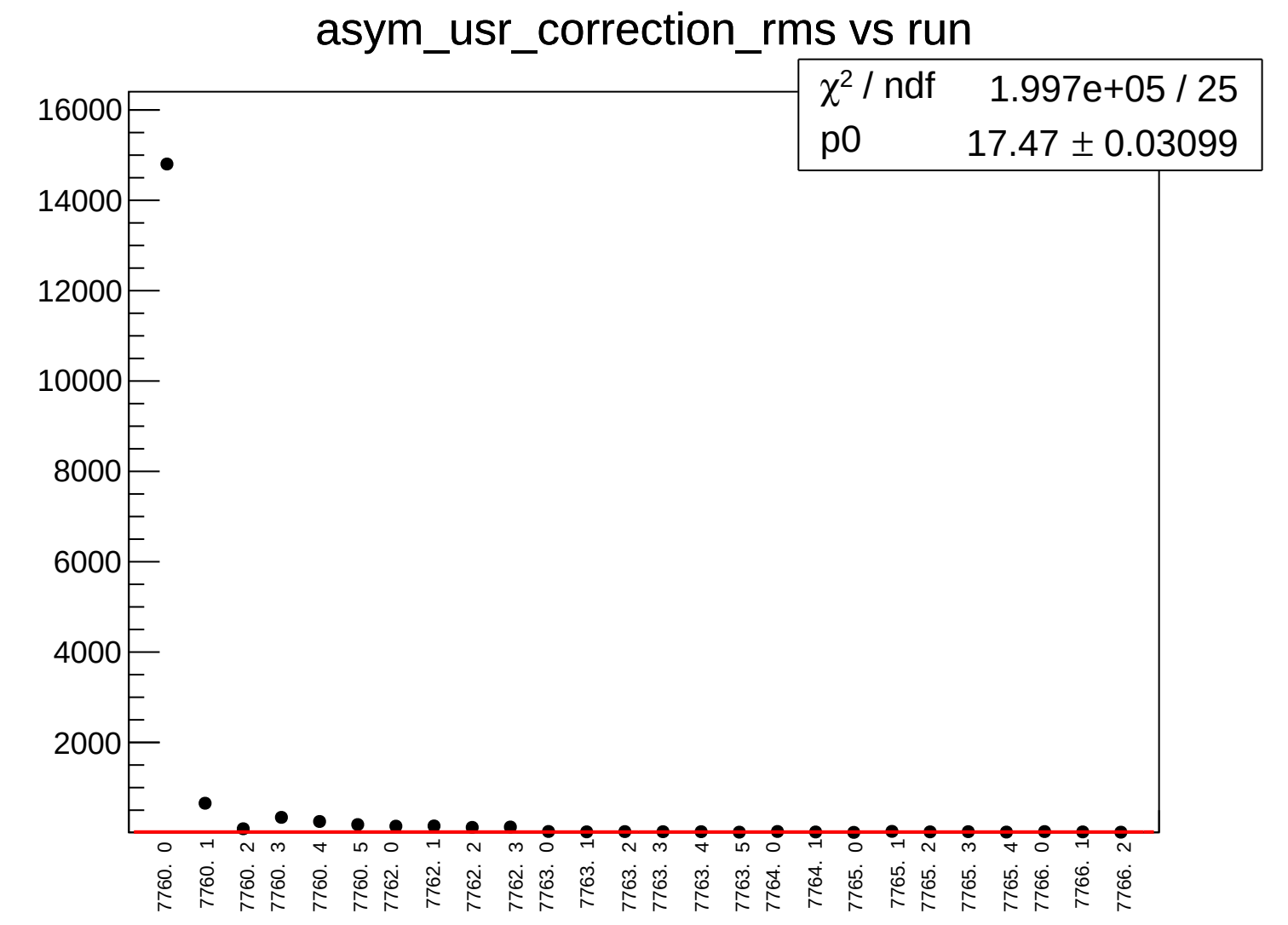

reg_asym_usr_mean vs run
×10^3
800
600
400
200
0
−200
χ² / ndf 34.77 / 24
p0 495.3 ± 2300
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 12.9
Std Dev 6.719
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

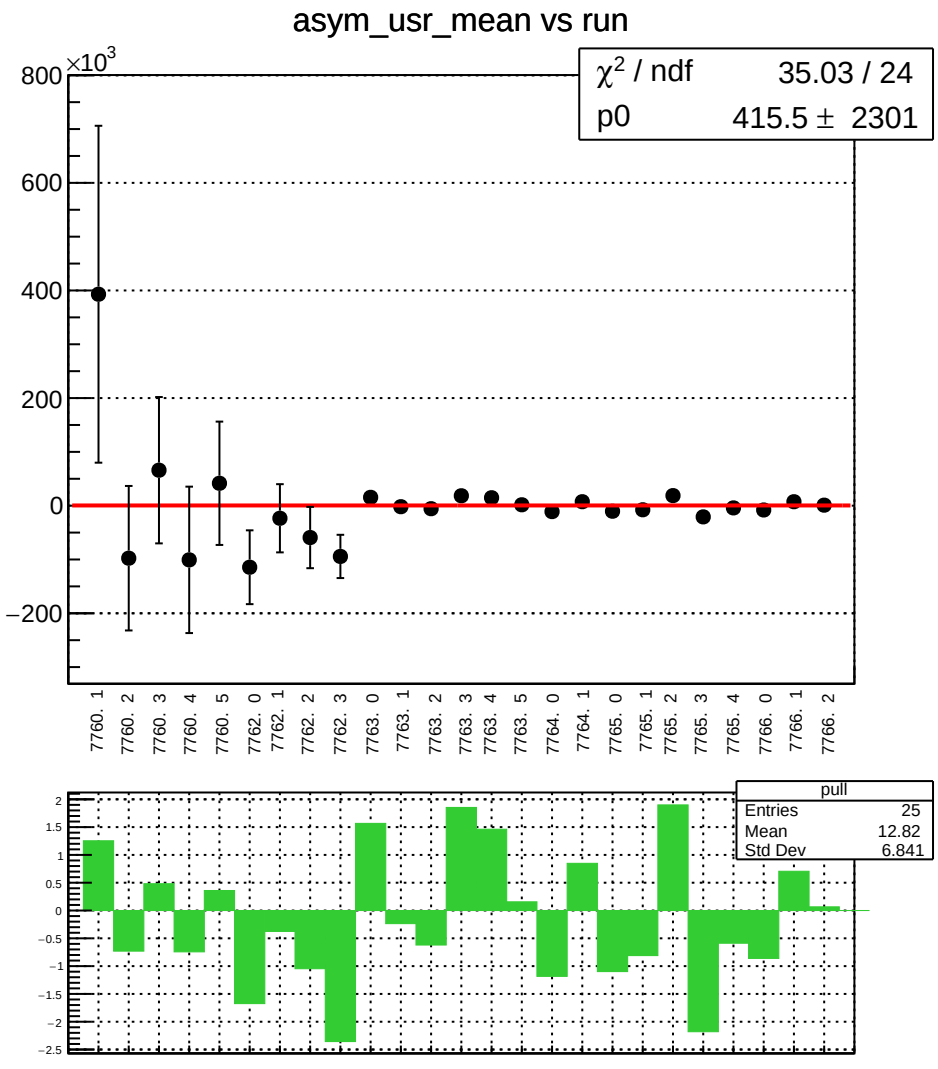

pull1D
Entries 25
Mean −0.1507
Std Dev 1.17
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

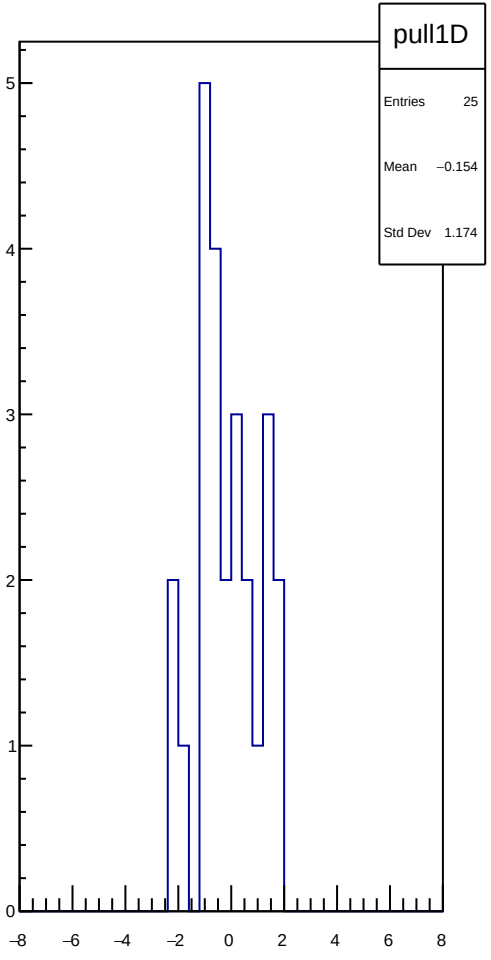

reg_asym_usr_rms vs run
×10^3
1000
800
600
400
200
χ² / ndf 1.589e+05 / 25
p0 974.1 ± 1.626
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

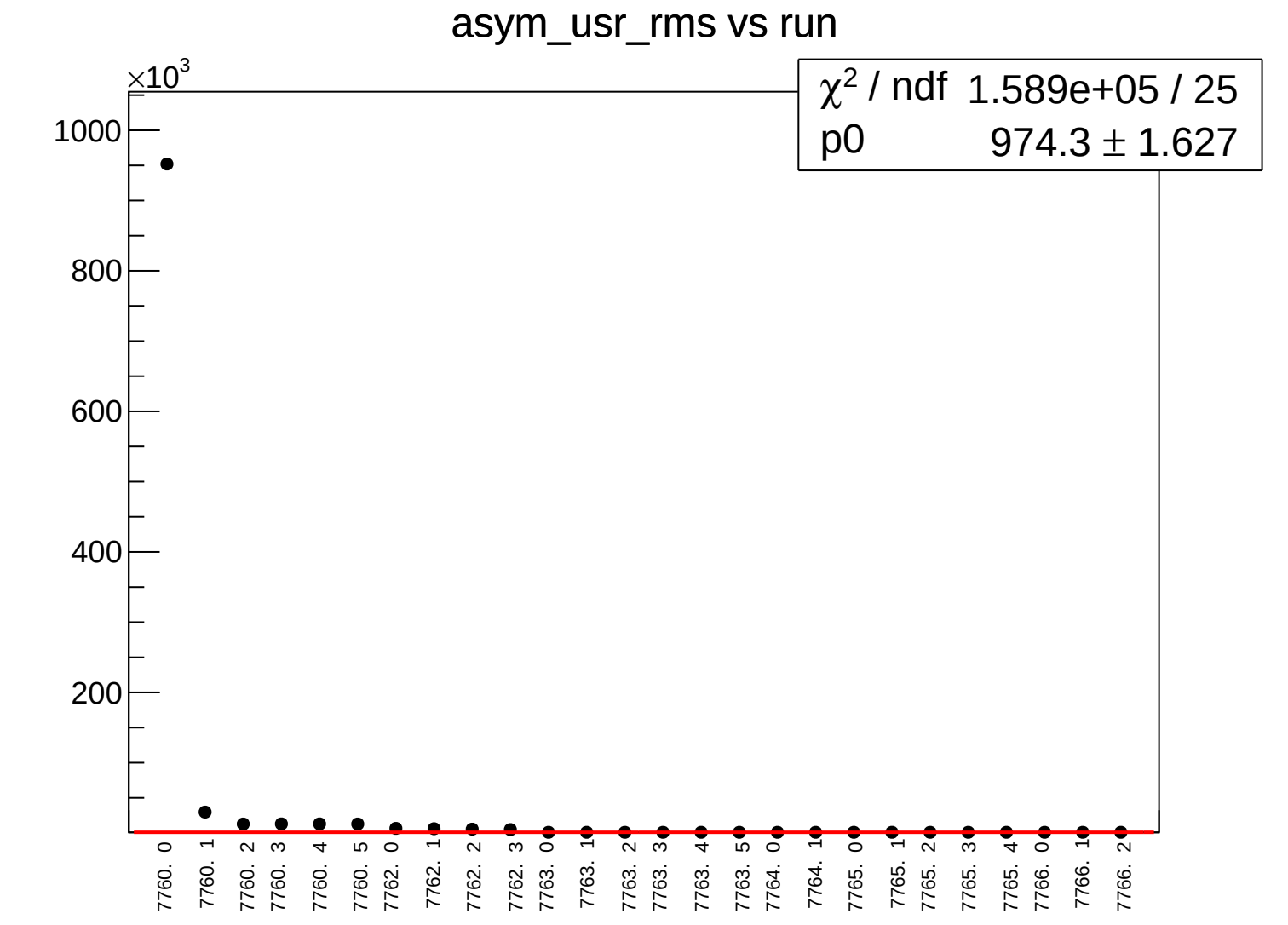

asym_usr_correction_mean vs run
×10^3
χ^2 / ndf 31.34 / 25
p0 74.53 ± 43.83
350
300
250
200
150
100
50
0
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 6.157
Std Dev 8.202
2
1.5
1
0.5
0
−0.5
−1
−1.5

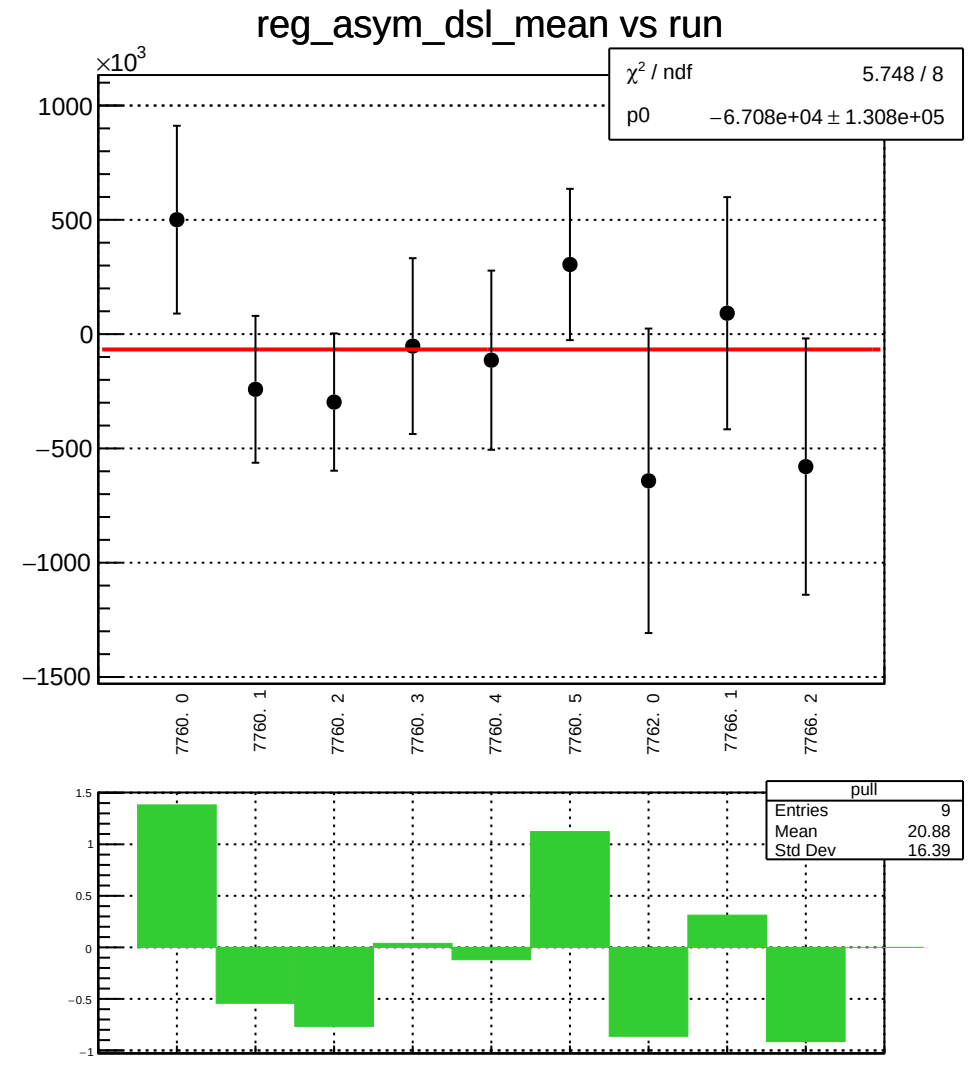

pull1D
Entries 26
Mean 0.2025
Std Dev 1.079
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

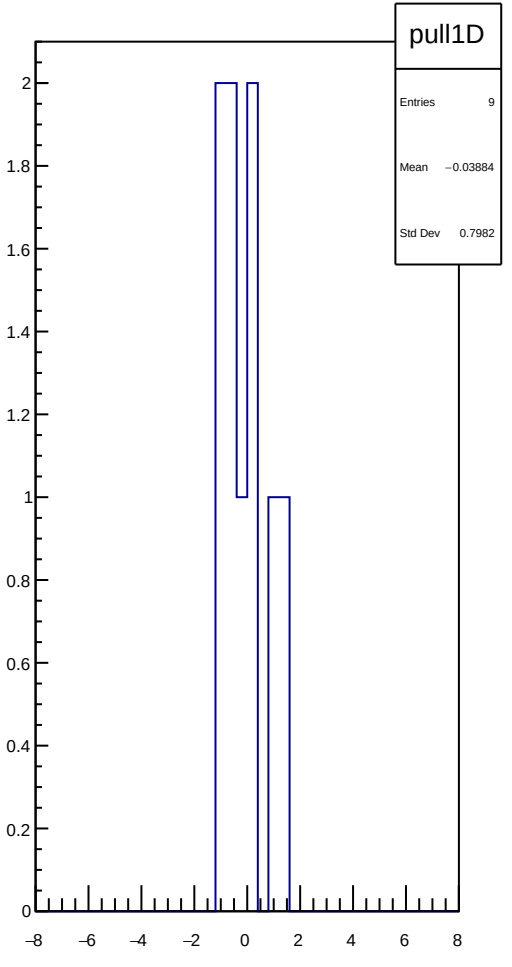

asym_usr_correction_rms vs run
χ² / ndf 1.997e+05 / 25
p0 17.47 ± 0.03099
16000
14000
12000
10000
8000
6000
4000
2000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

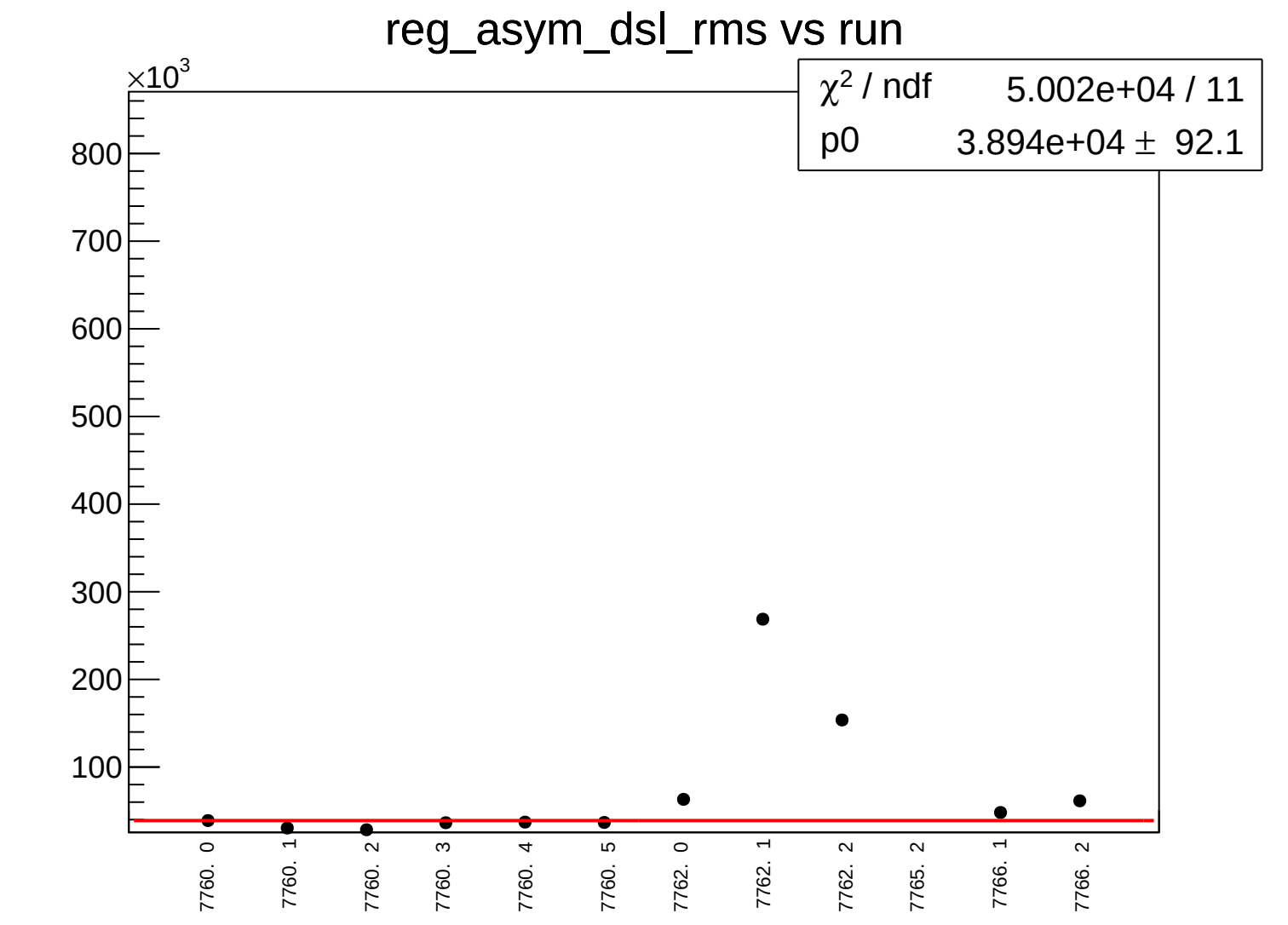

asym_usr_mean vs run
χ² / ndf 35.03 / 24
p0 415.5 ± 2301
×10³
800
600
400
200
0
−200
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 12.82
Std Dev 6.841
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

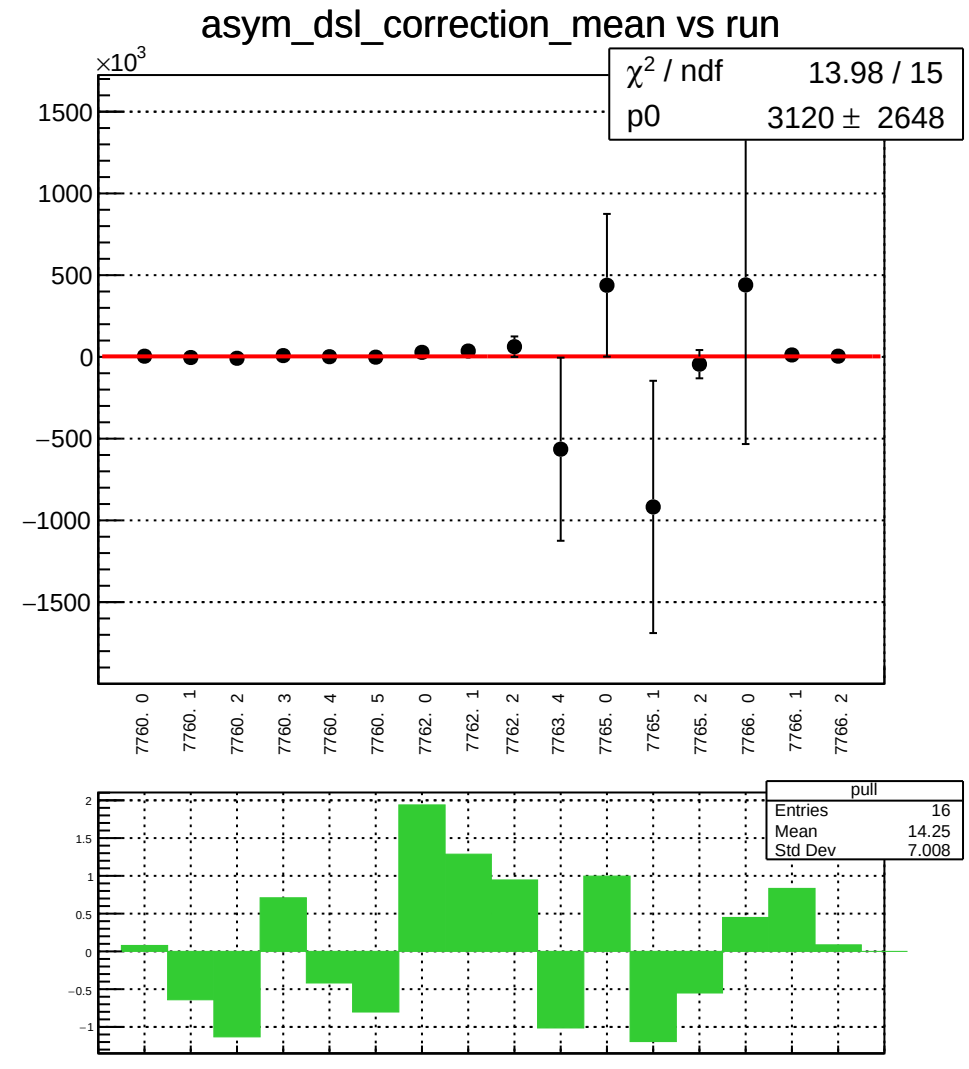

pull1D
Entries 25
Mean −0.154
Std Dev 1.174
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

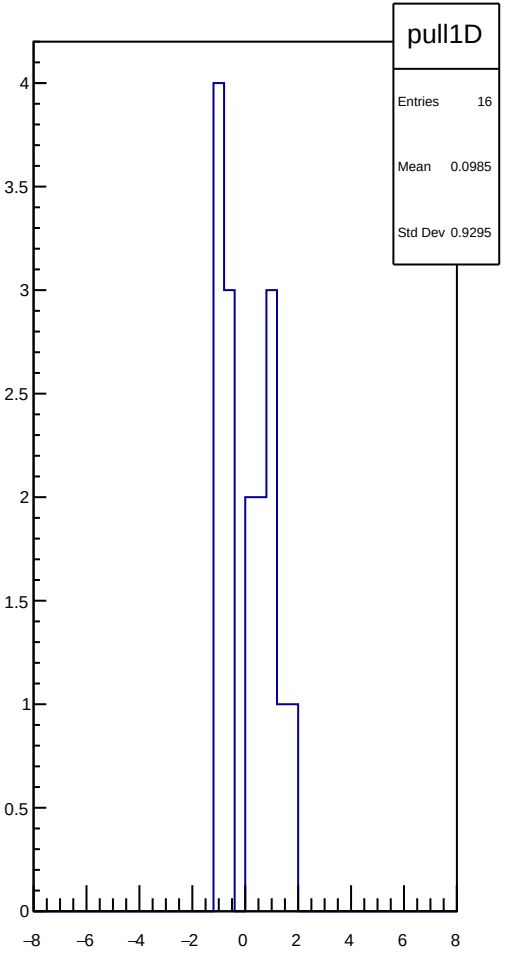

asym_usr_rms vs run
×10^3
1000
800
600
400
200
χ² / ndf 1.589e+05 / 25
p0 974.3 ± 1.627
17760. 0
17760. 1
17760. 2
17760. 3
17760. 4
17760. 5
17762. 0
17762. 1
17762. 2
17762. 3
17763. 0
17763. 1
17763. 2
17763. 3
17763. 4
17763. 5
17764. 0
17764. 1
17765. 0
17765. 1
17765. 2
17765. 3
17765. 4
17766. 0
17766. 1
17766. 2

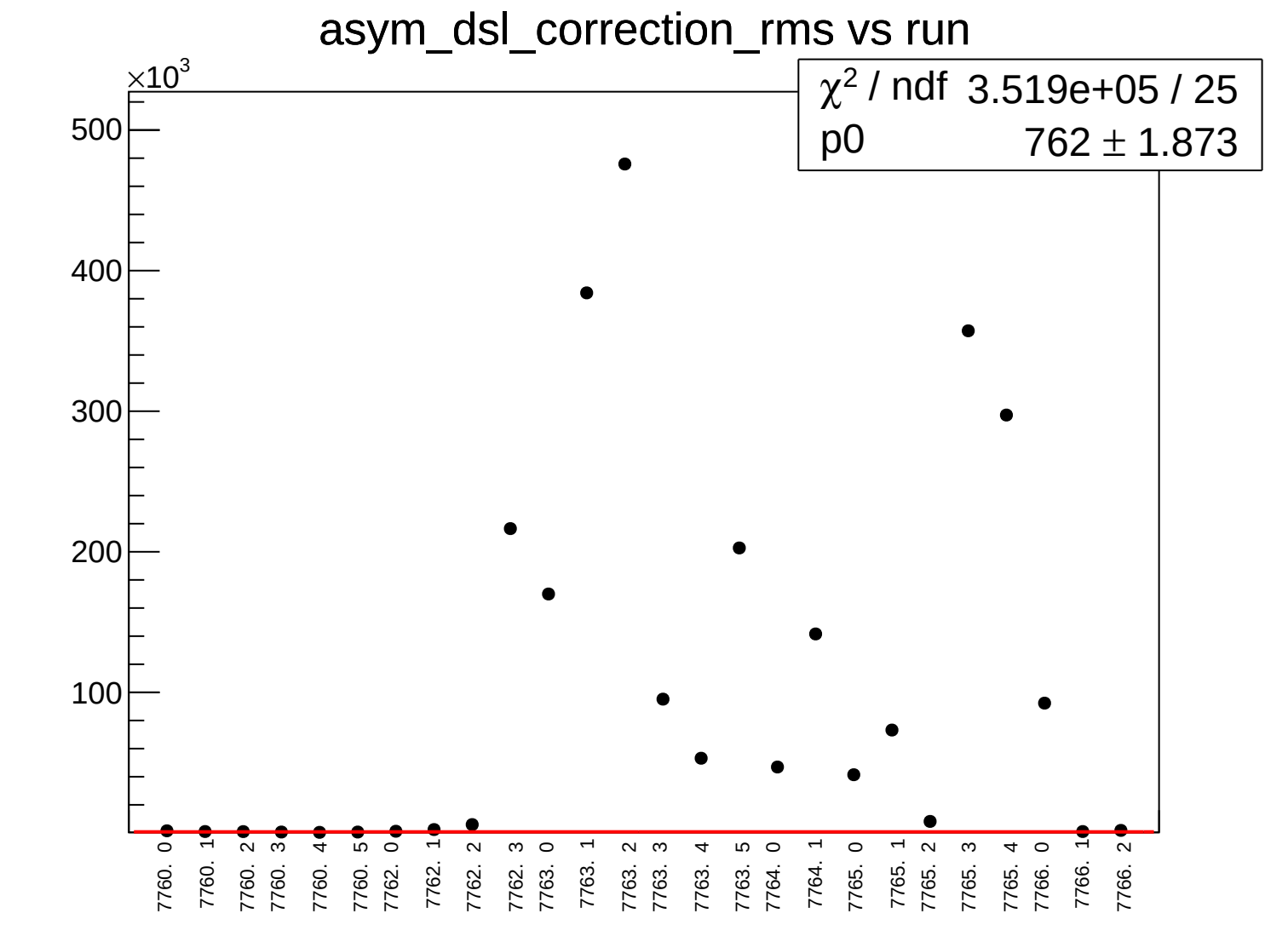

reg_asym_dsl_mean vs run
×10^3
χ² / ndf 5.748 / 8
p0 −6.708e+04 ± 1.308e+05
1000
500
0
−500
−1000
−1500
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7766. 1
7766. 2
pull
Entries 9
Mean 20.88
Std Dev 16.39
1.5
1
0.5
0
−0.5
−1

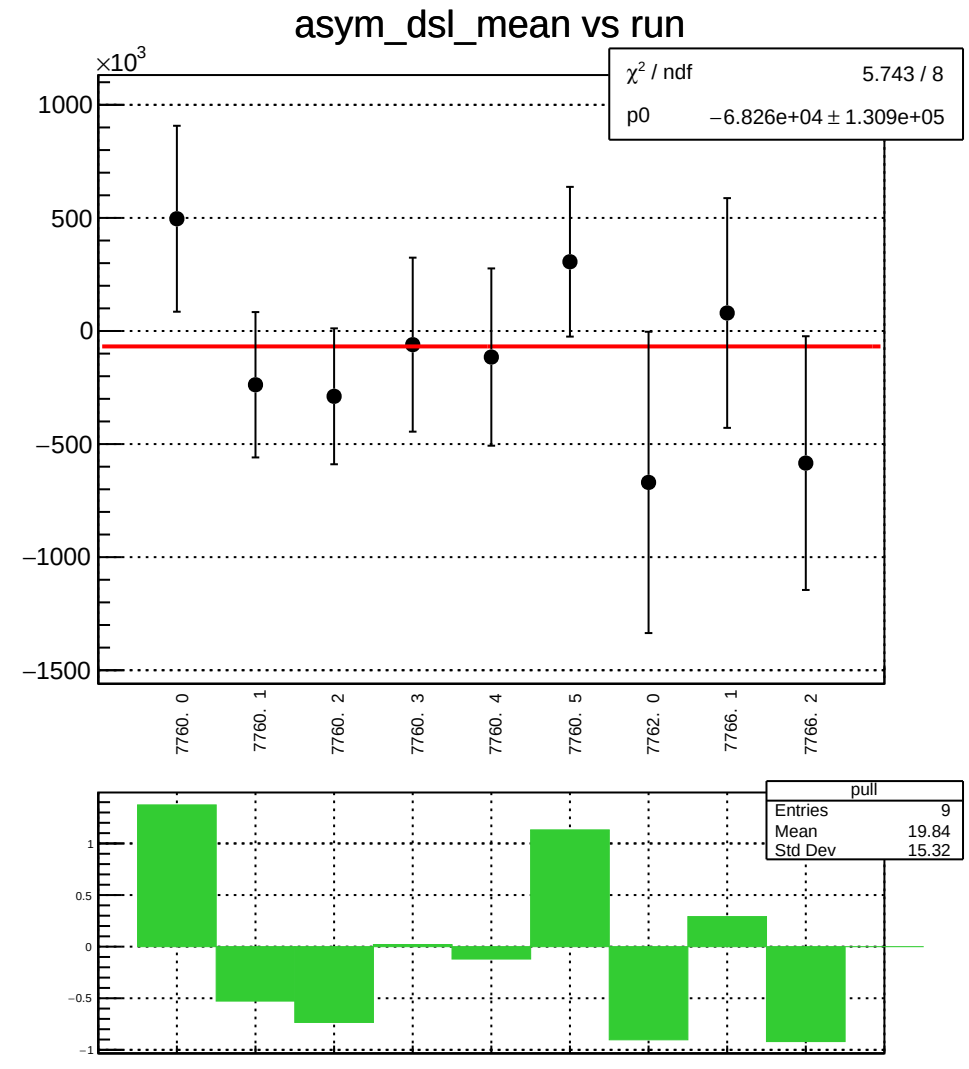

pull1D
Entries 9
Mean −0.03884
Std Dev 0.7982
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

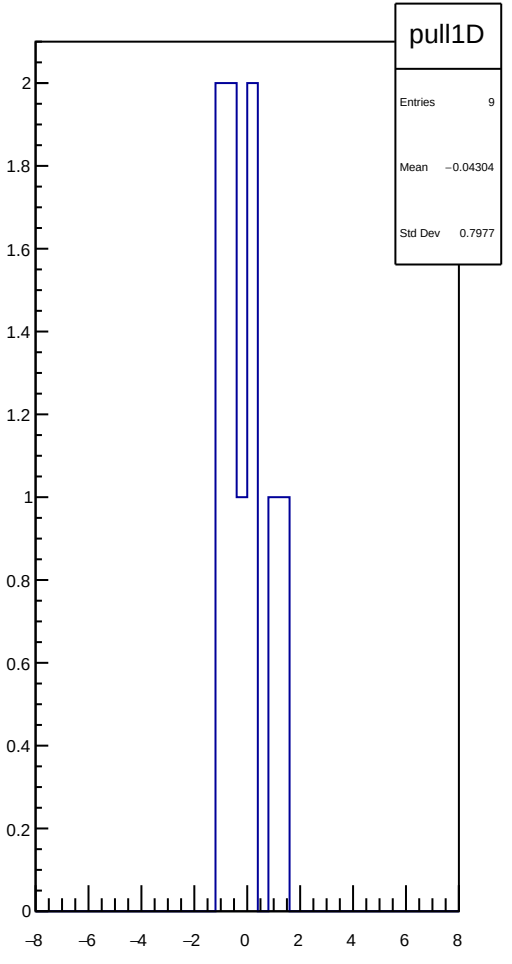

reg_asym_dsl_rms vs run
×10^3
800
700
600
500
400
300
200
100
χ² / ndf 5.002e+04 / 11
p0 3.894e+04 ± 92.1
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7765. 2
7766. 1
7766. 2

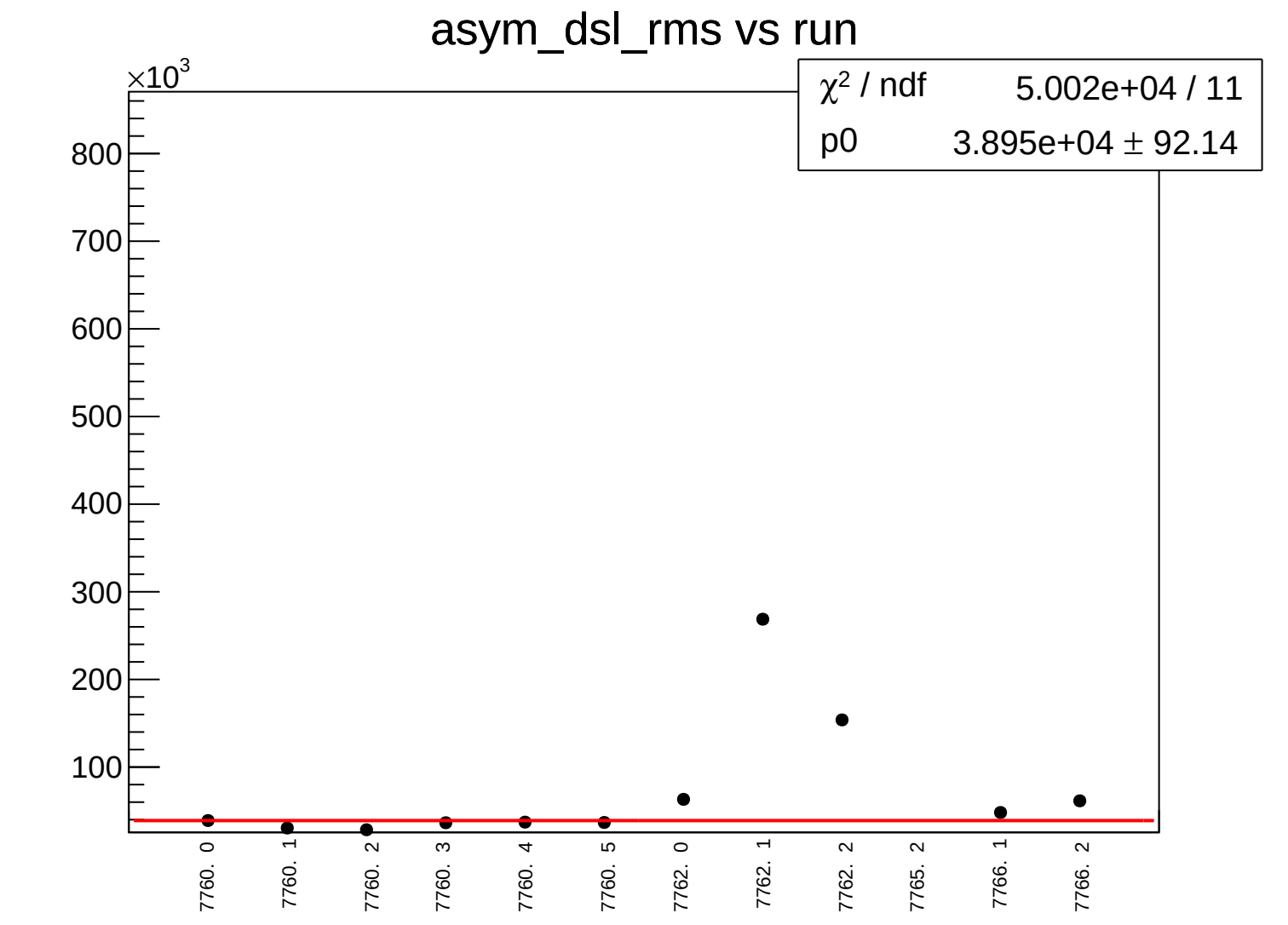

asym_dsl_correction_mean vs run
×10^3
χ^2 / ndf 13.98 / 15
p0 3120 ± 2648
1500
1000
500
0
−500
−1000
−1500
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7763. 4
7765. 0
7765. 1
7765. 2
7766. 0
7766. 1
7766. 2
pull
Entries 16
Mean 14.25
Std Dev 7.008
2
1.5
1
0.5
0
−0.5
−1

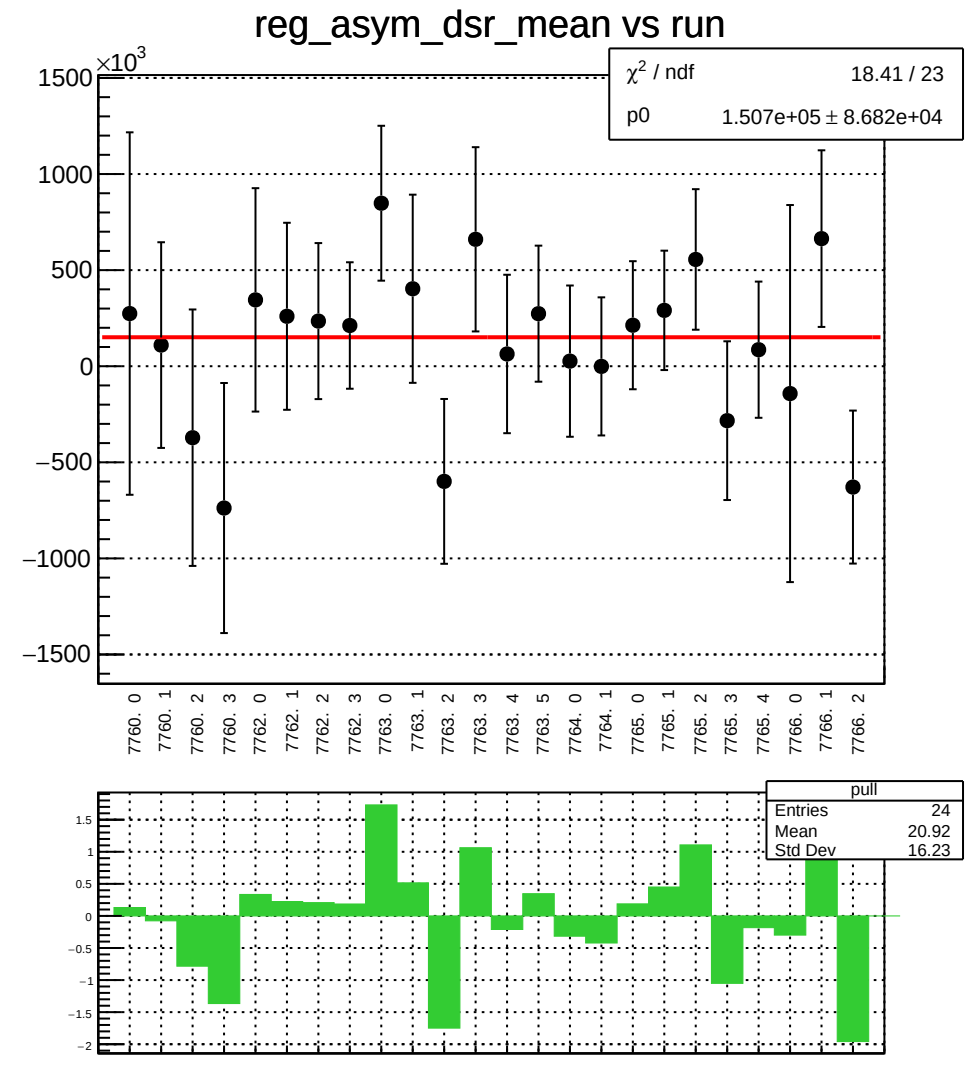

pull1D
Entries 16
Mean 0.0985
Std Dev 0.9295
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

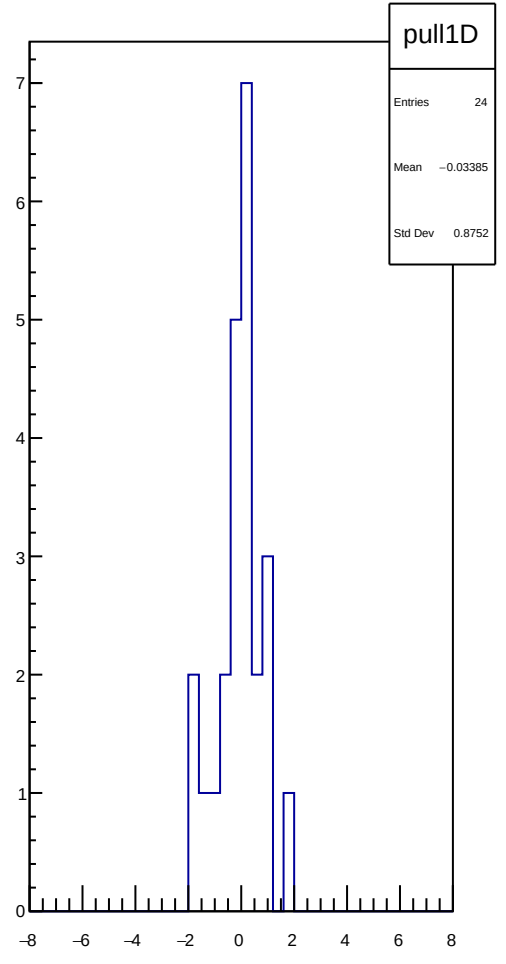

asym_dsl_correction_rms vs run
×10^3
χ^2 / ndf 3.519e+05 / 25
p0 762 ± 1.873
500
400
300
200
100
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

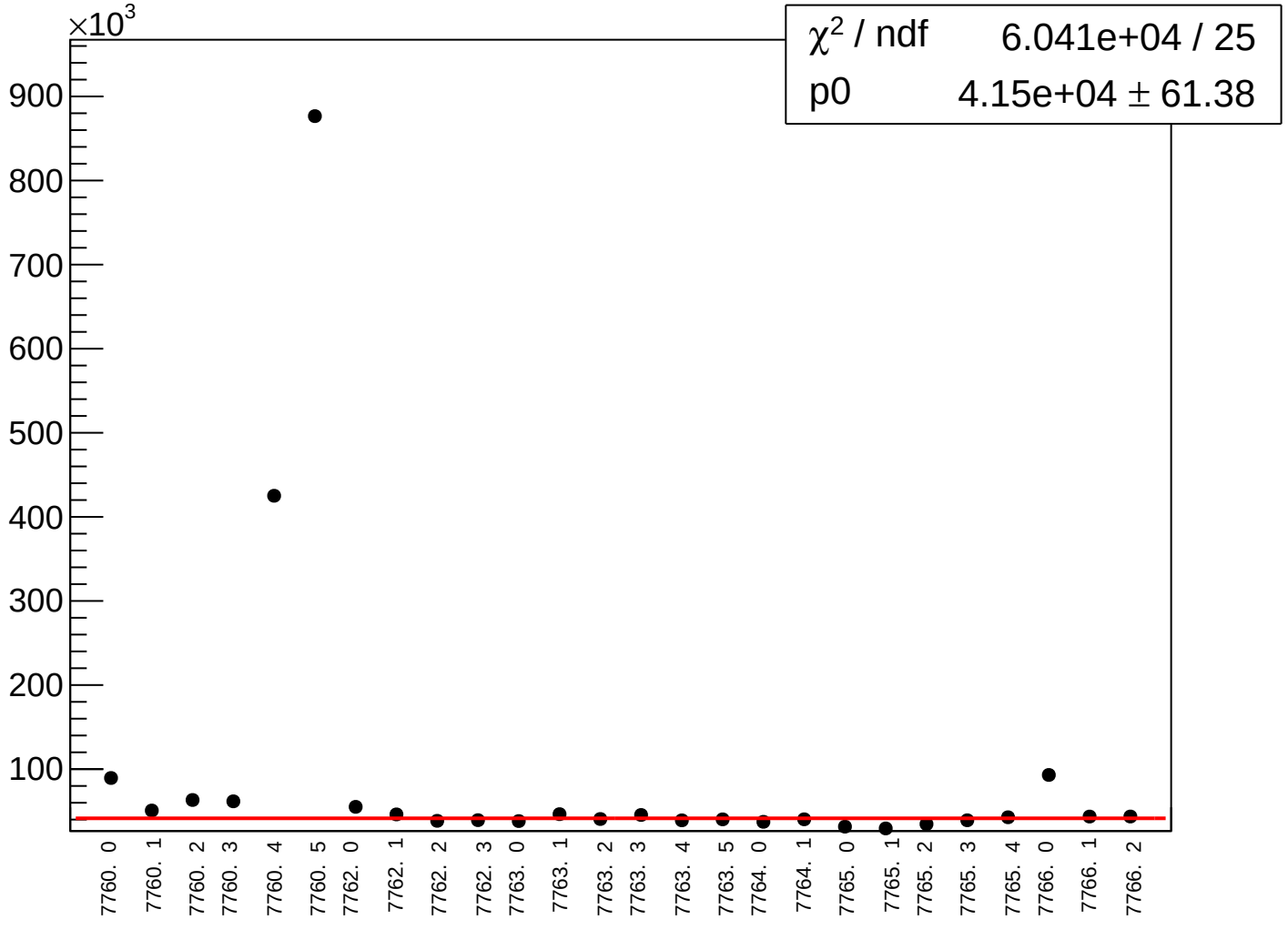

asym_dsl_mean vs run
×10^3
χ² / ndf 5.743 / 8
p0 −6.826e+04 ± 1.309e+05
1000
500
0
−500
−1000
−1500
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7766. 1
7766. 2
pull
Entries 9
Mean 19.84
Std Dev 15.32
1
0.5
0
−0.5
−1

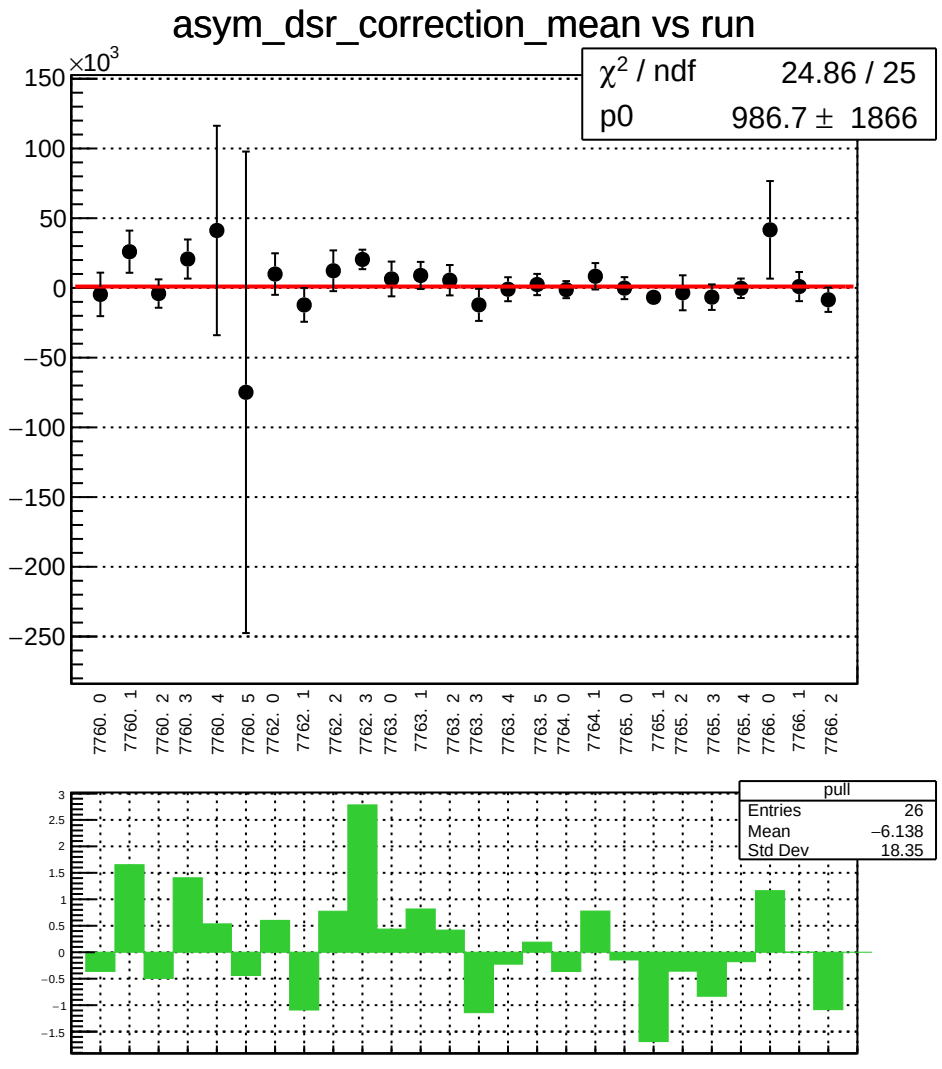

pull1D
Entries 9
Mean −0.04304
Std Dev 0.7977
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

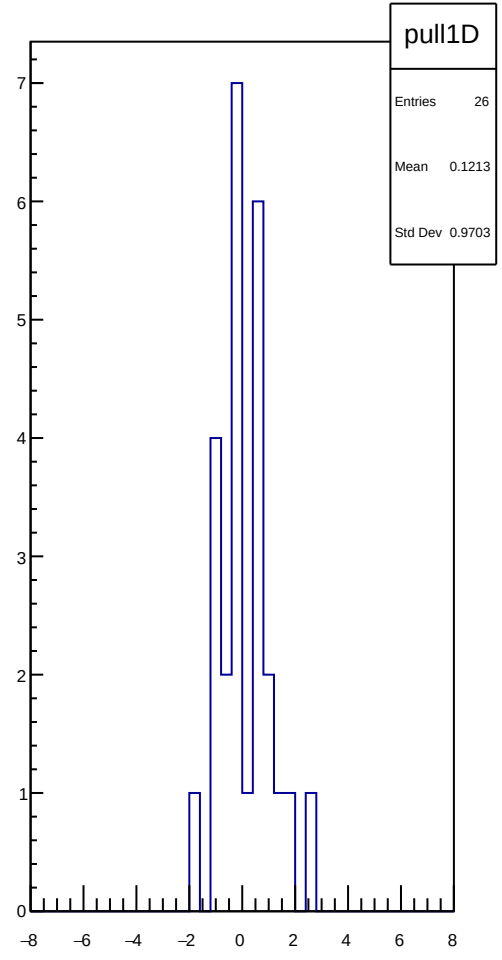

asym_dsl_rms vs run
×10^3
800
700
600
500
400
300
200
100
χ² / ndf 5.002e+04 / 11
p0 3.895e+04 ± 92.14
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7765. 2
7766. 1
7766. 2

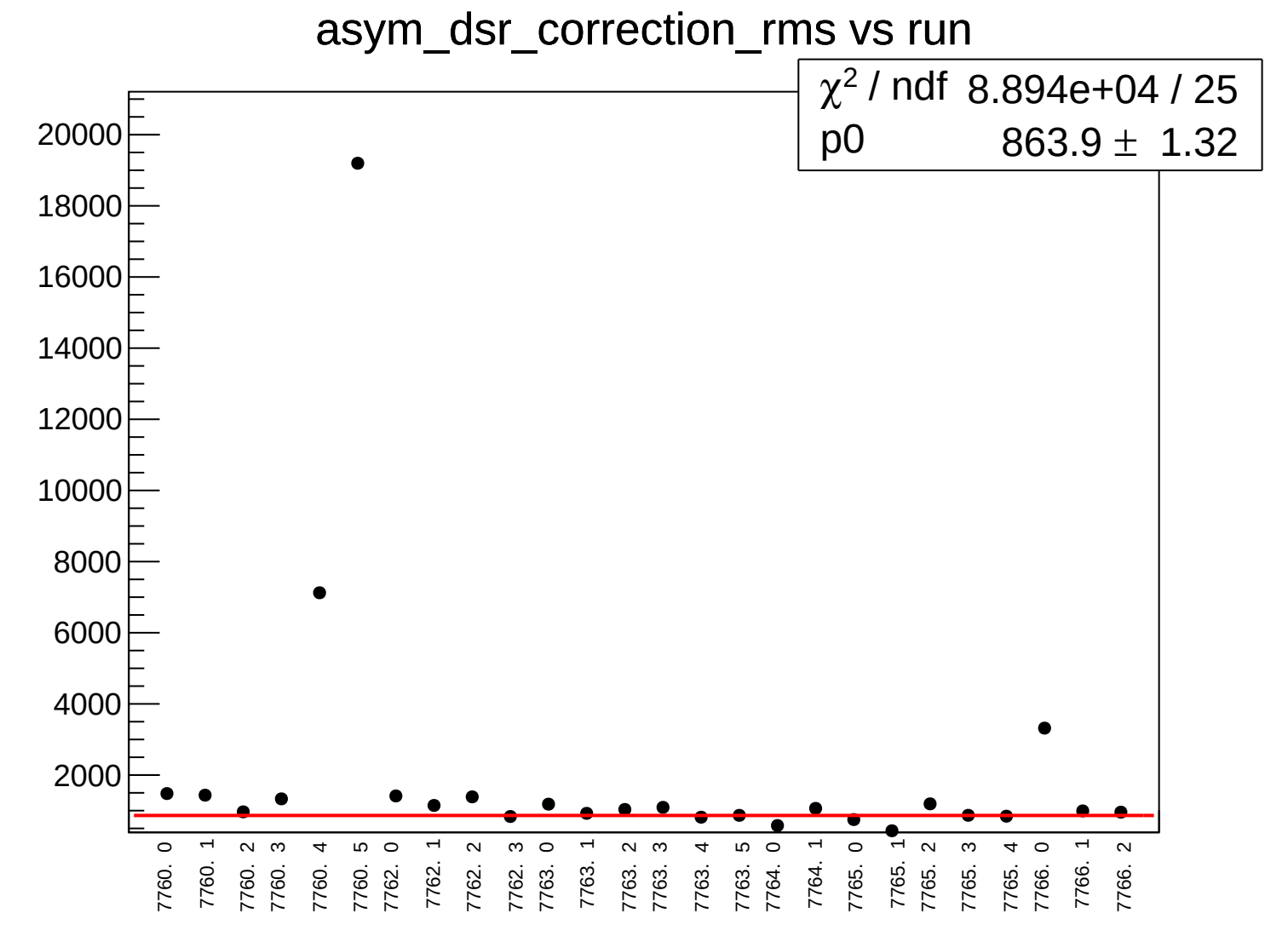

reg_asym_dsr_mean vs run
×10^3
χ² / ndf 18.41 / 23
p0 1.507e+05 ± 8.682e+04
1500
1000
500
0
−500
−1000
−1500
7760. 0
7760. 1
7760. 2
7760. 3
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 24
Mean 20.92
Std Dev 16.23
1.5
1
0.5
0
−0.5
−1
−1.5
−2

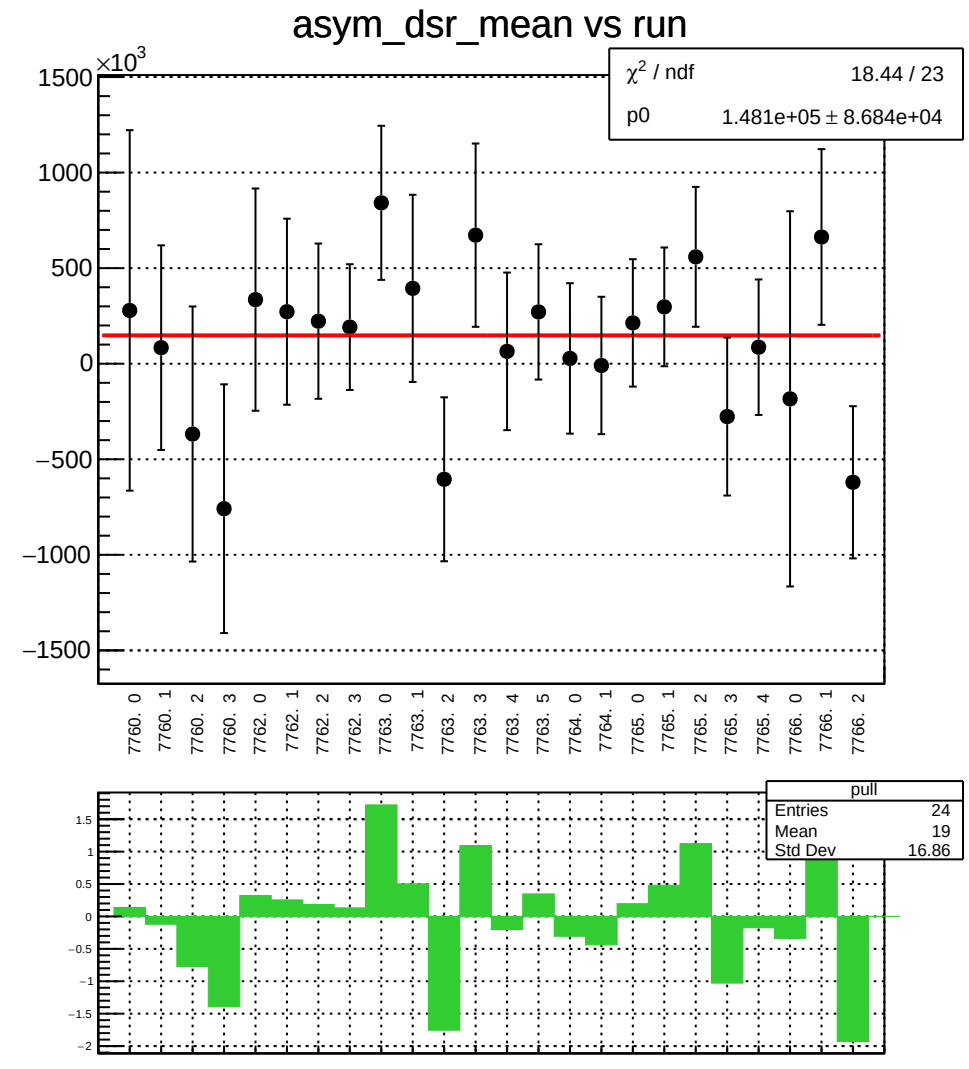

pull1D
Entries 24
Mean −0.03385
Std Dev 0.8752
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

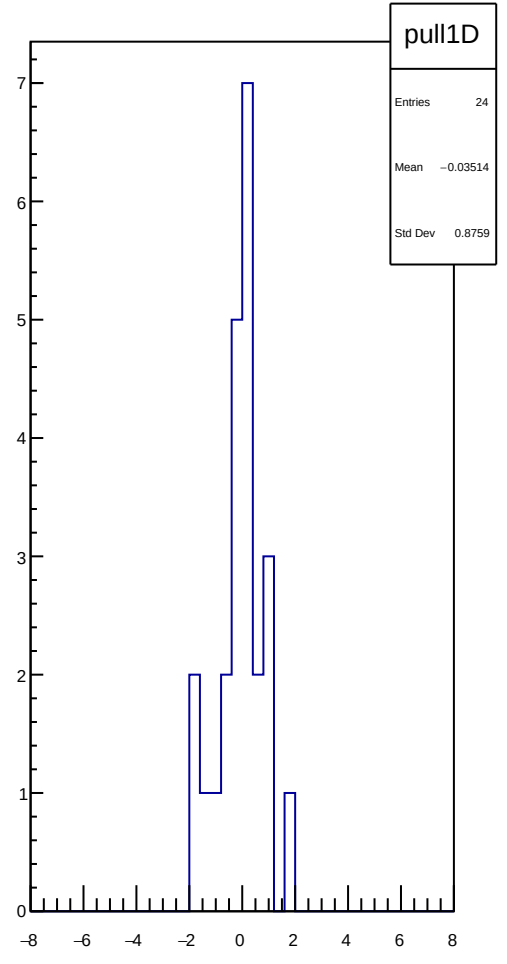

reg_asym_dsr_rms vs run
×10^3
χ^2 / ndf 6.041e+04 / 25
p0 4.15e+04 ± 61.38
900
800
700
600
500
400
300
200
100
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

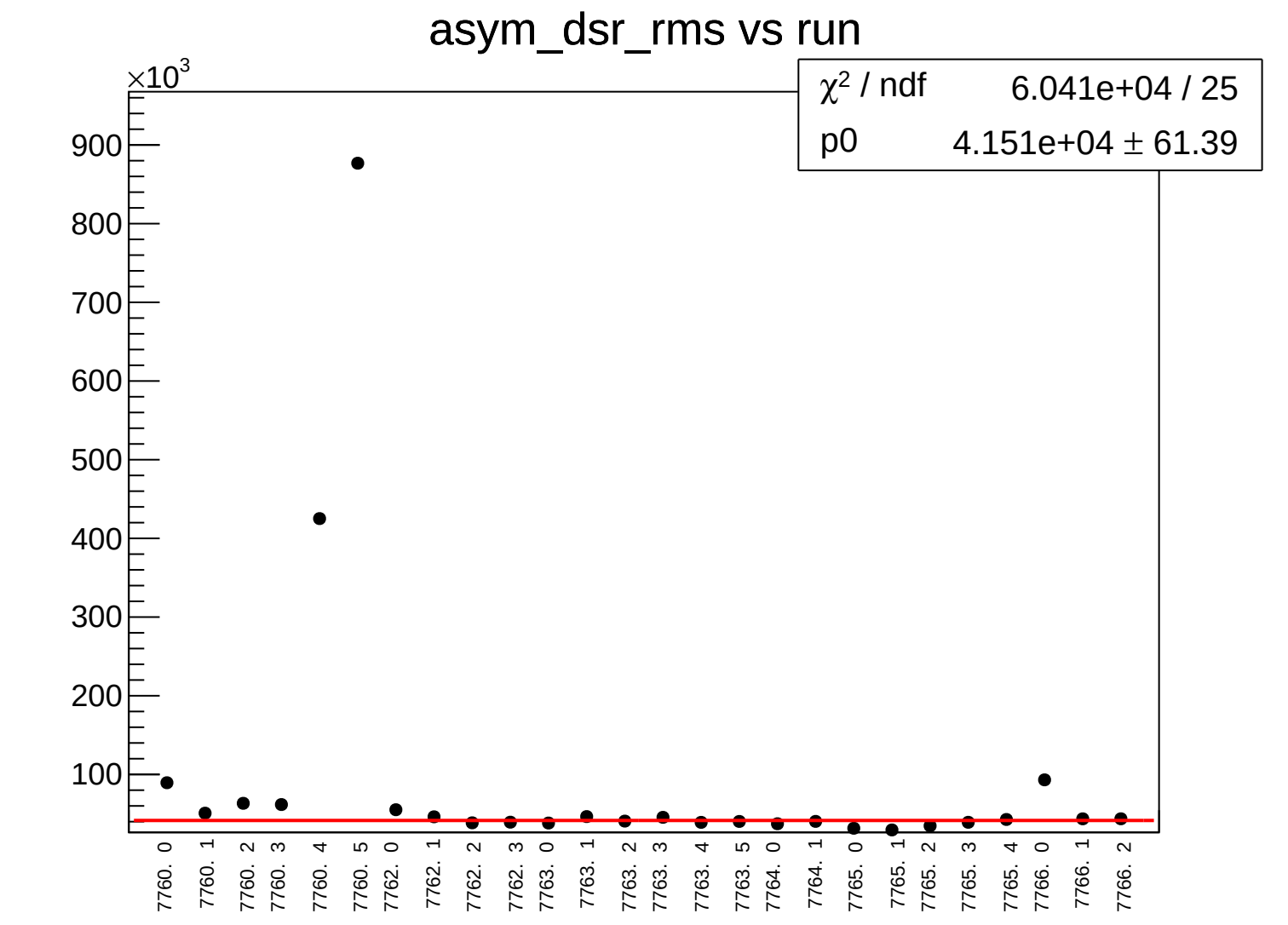

asym_dsr_correction_mean vs run
×10^3
χ^2 / ndf 24.86 / 25
p0 986.7 ± 1866
150
100
50
0
−50
−100
−150
−200
−250
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −6.138
Std Dev 18.35
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

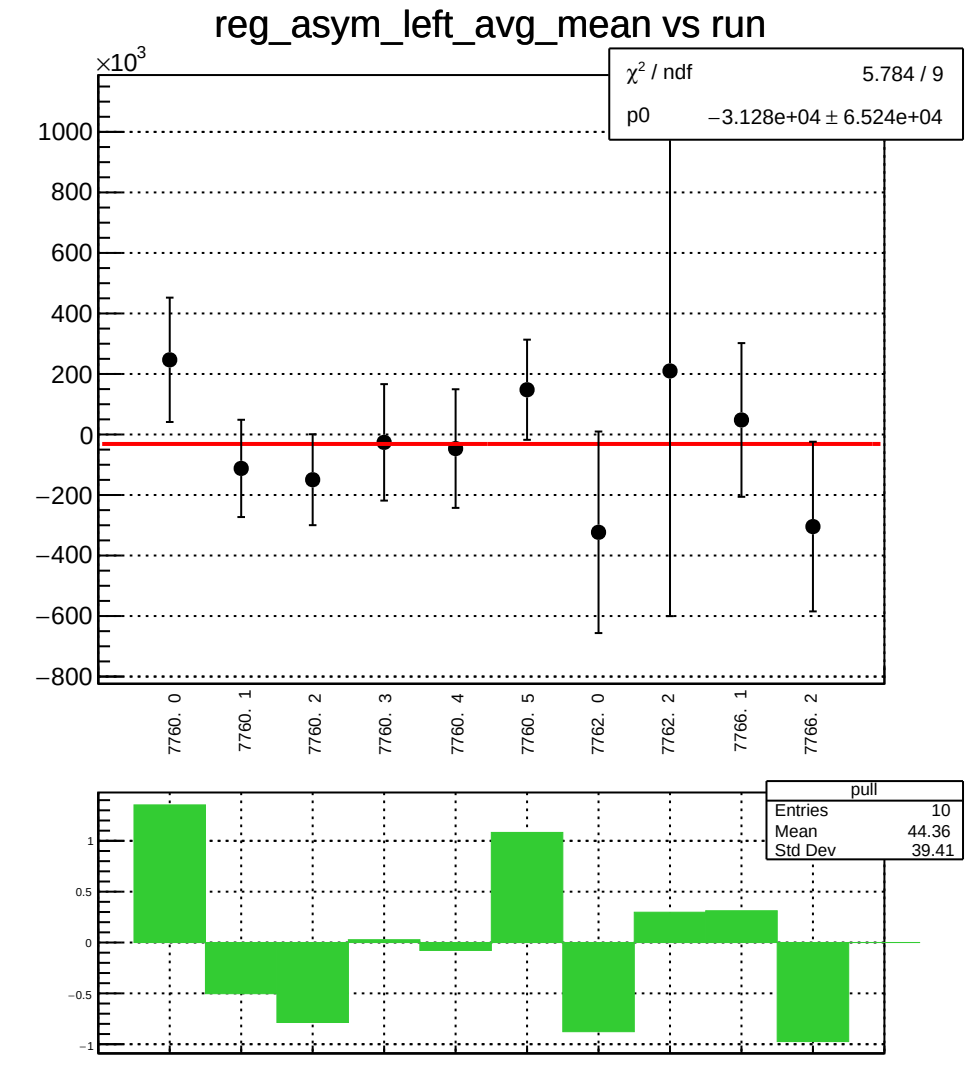

pull1D
Entries 26
Mean 0.1213
Std Dev 0.9703
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

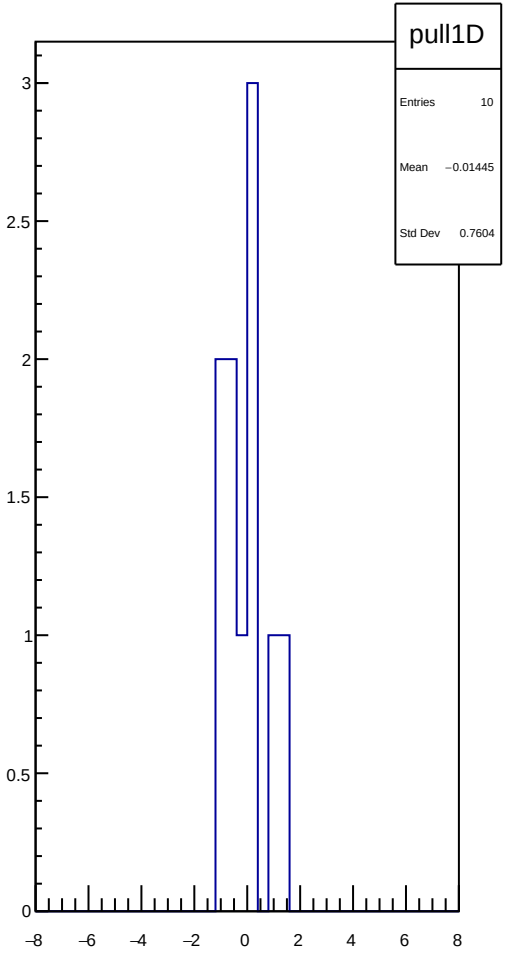

asym_dsr_correction_rms vs run
χ² / ndf 8.894e+04 / 25
p0 863.9 ± 1.32
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

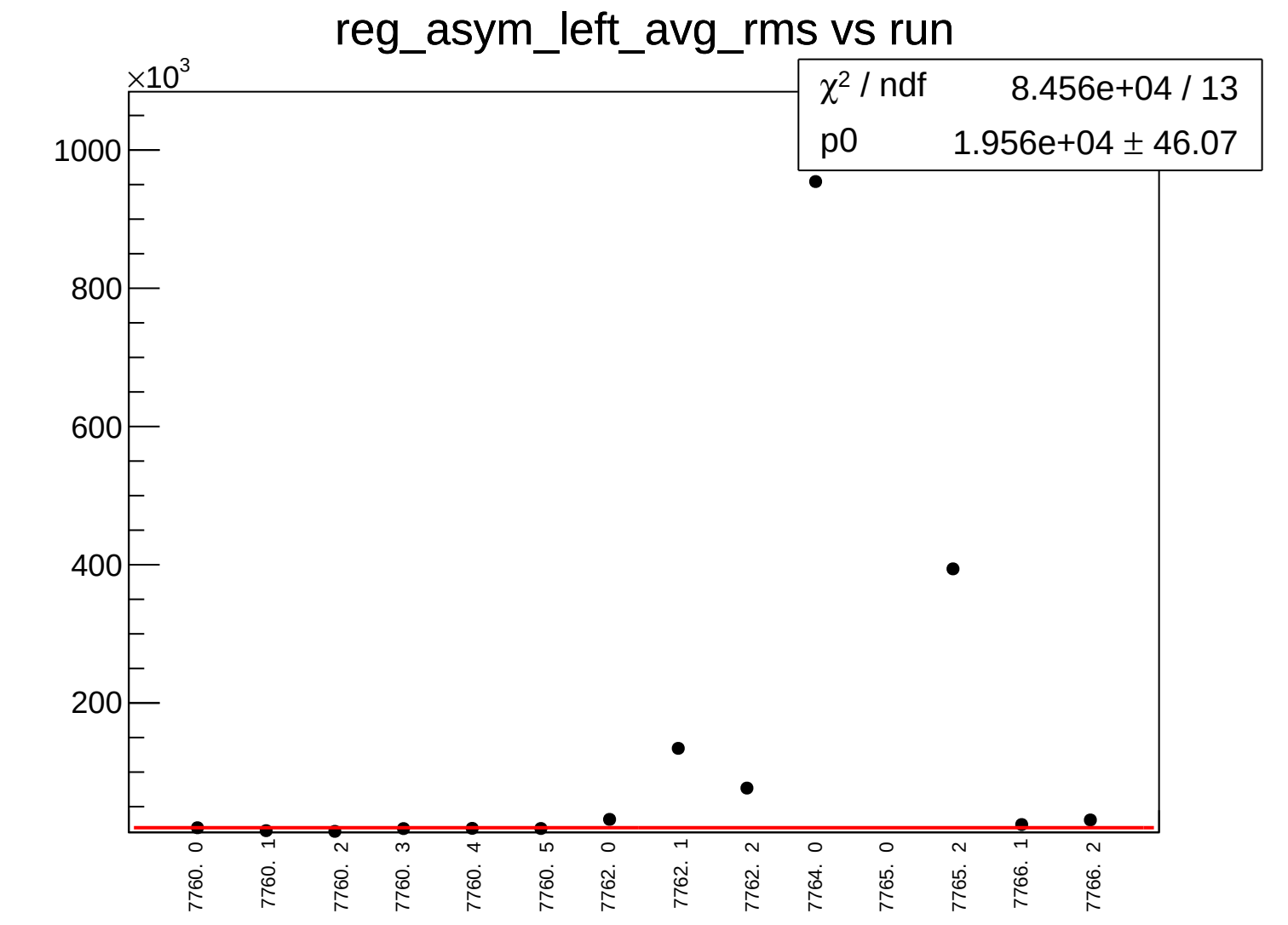

asym_dsr_mean vs run
×10^3
χ² / ndf 18.44 / 23
p0 1.481e+05 ± 8.684e+04
1500
1000
500
0
−500
−1000
−1500
7760. 0
7760. 1
7760. 2
7760. 3
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 24
Mean 19
Std Dev 16.86
1.5
1
0.5
0
−0.5
−1
−1.5
−2

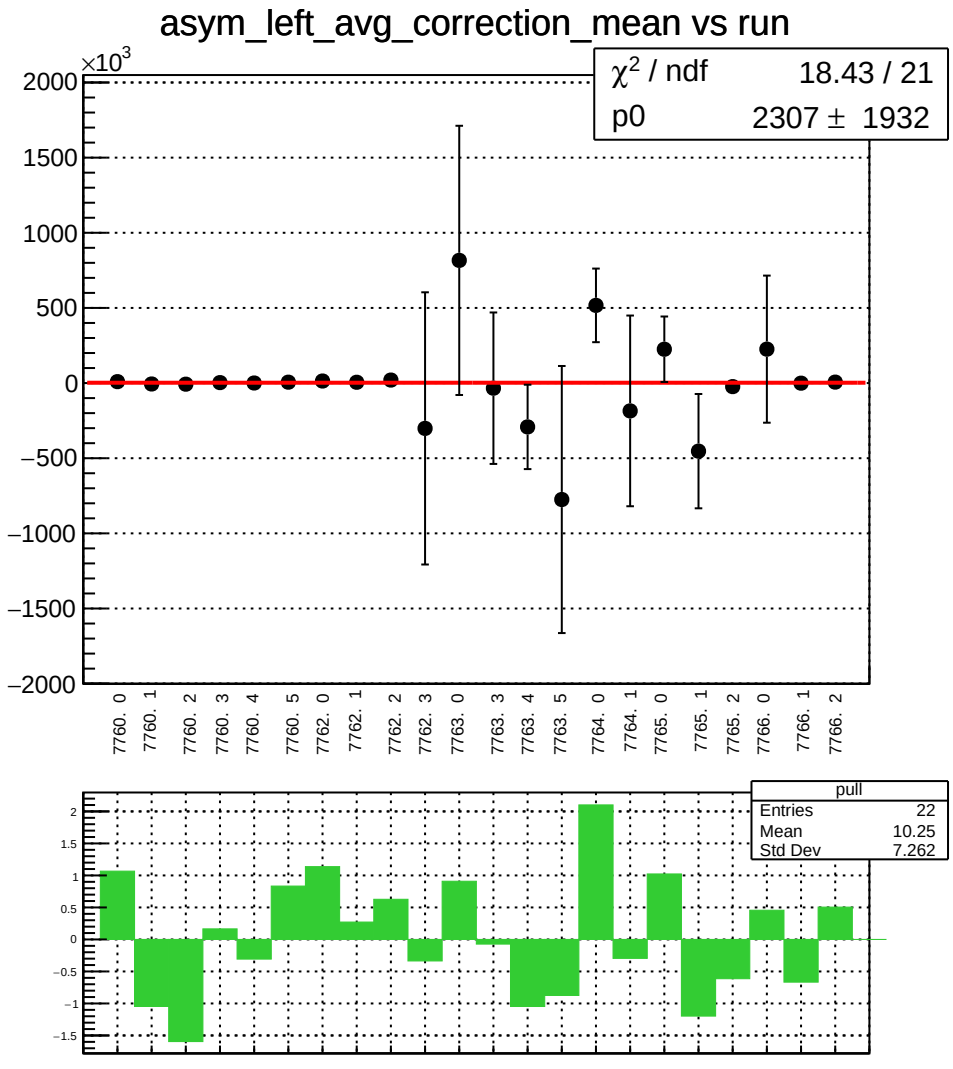

pull1D
Entries 24
Mean −0.03514
Std Dev 0.8759
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

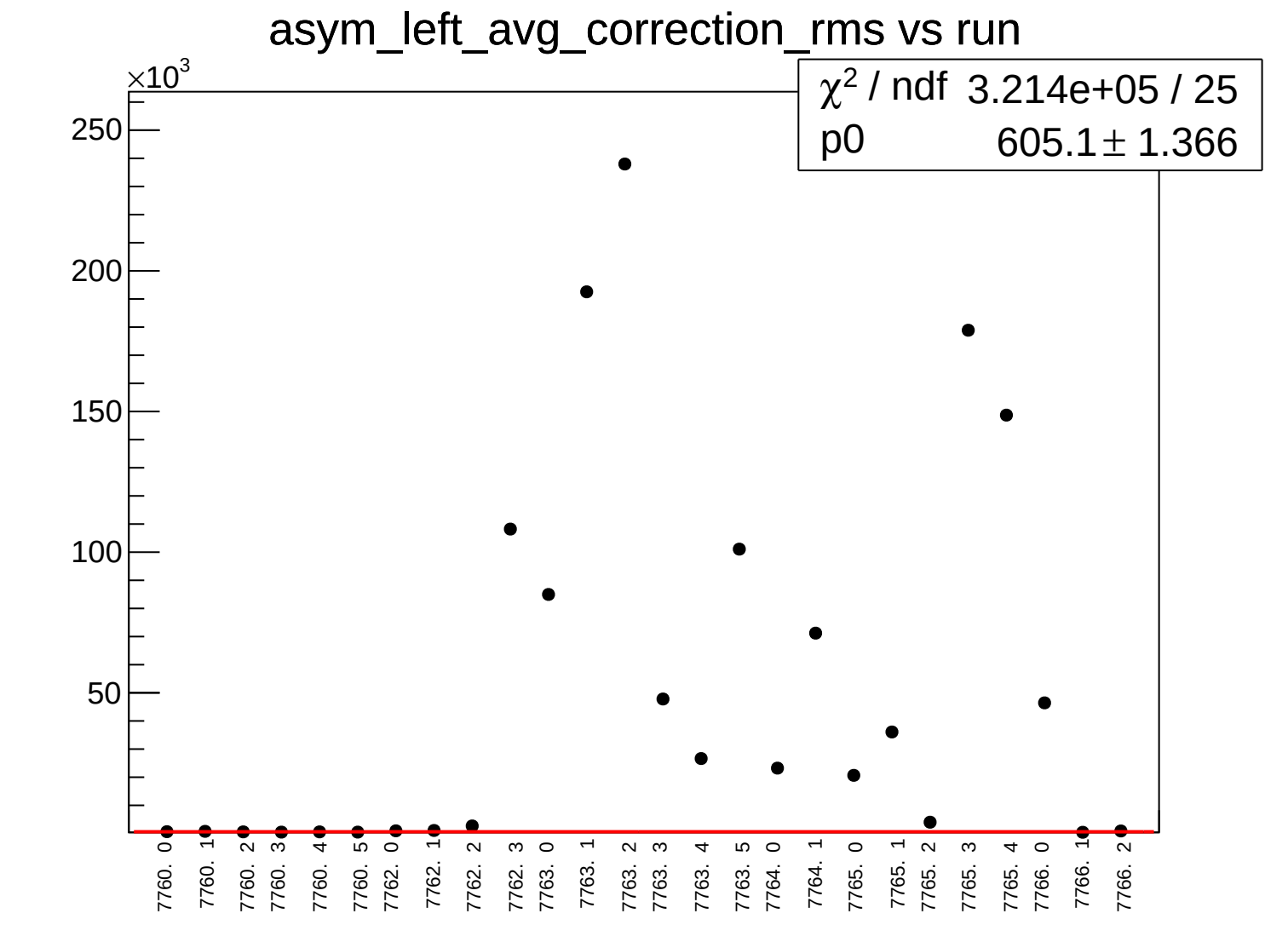

asym_dsr_rms vs run
×10^3
900
800
700
600
500
400
300
200
100
χ² / ndf 6.041e+04 / 25
p0 4.151e+04 ± 61.39
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

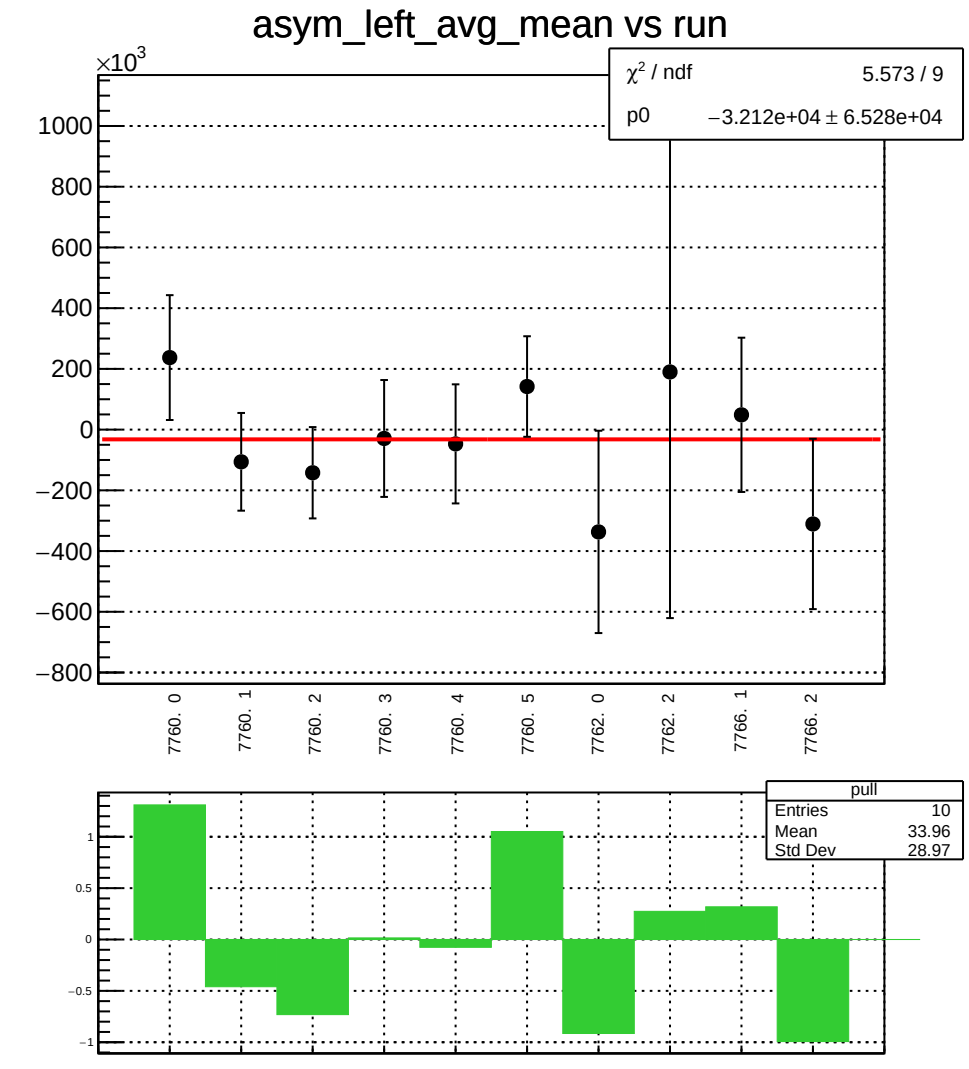

reg_asym_left_avg_mean vs run
×10^3
χ² / ndf 5.784 / 9
p0 −3.128e+04 ± 6.524e+04
1000
800
600
400
200
0
−200
−400
−600
−800
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 2
7766. 1
7766. 2
pull
Entries 10
Mean 44.36
Std Dev 39.41
1
0.5
0
−0.5
−1

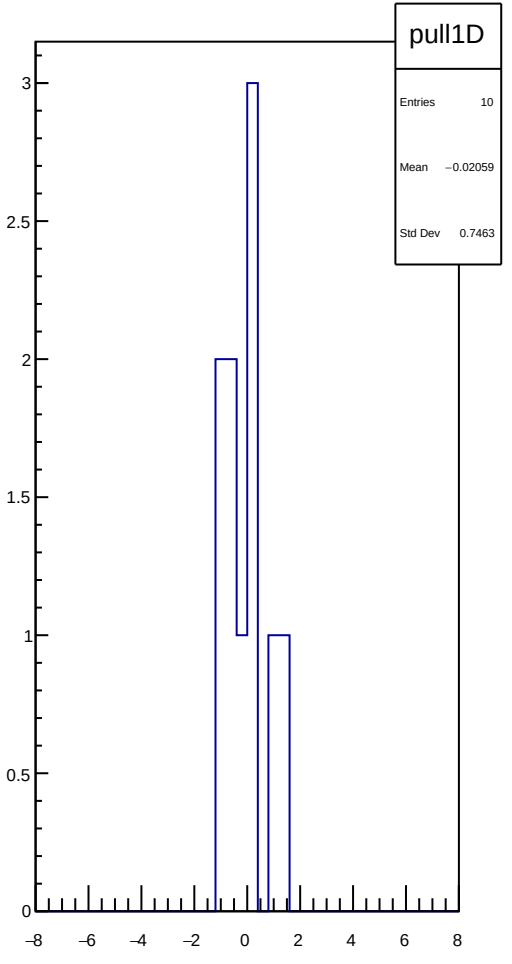

pull1D
Entries 10
Mean −0.01445
Std Dev 0.7604
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

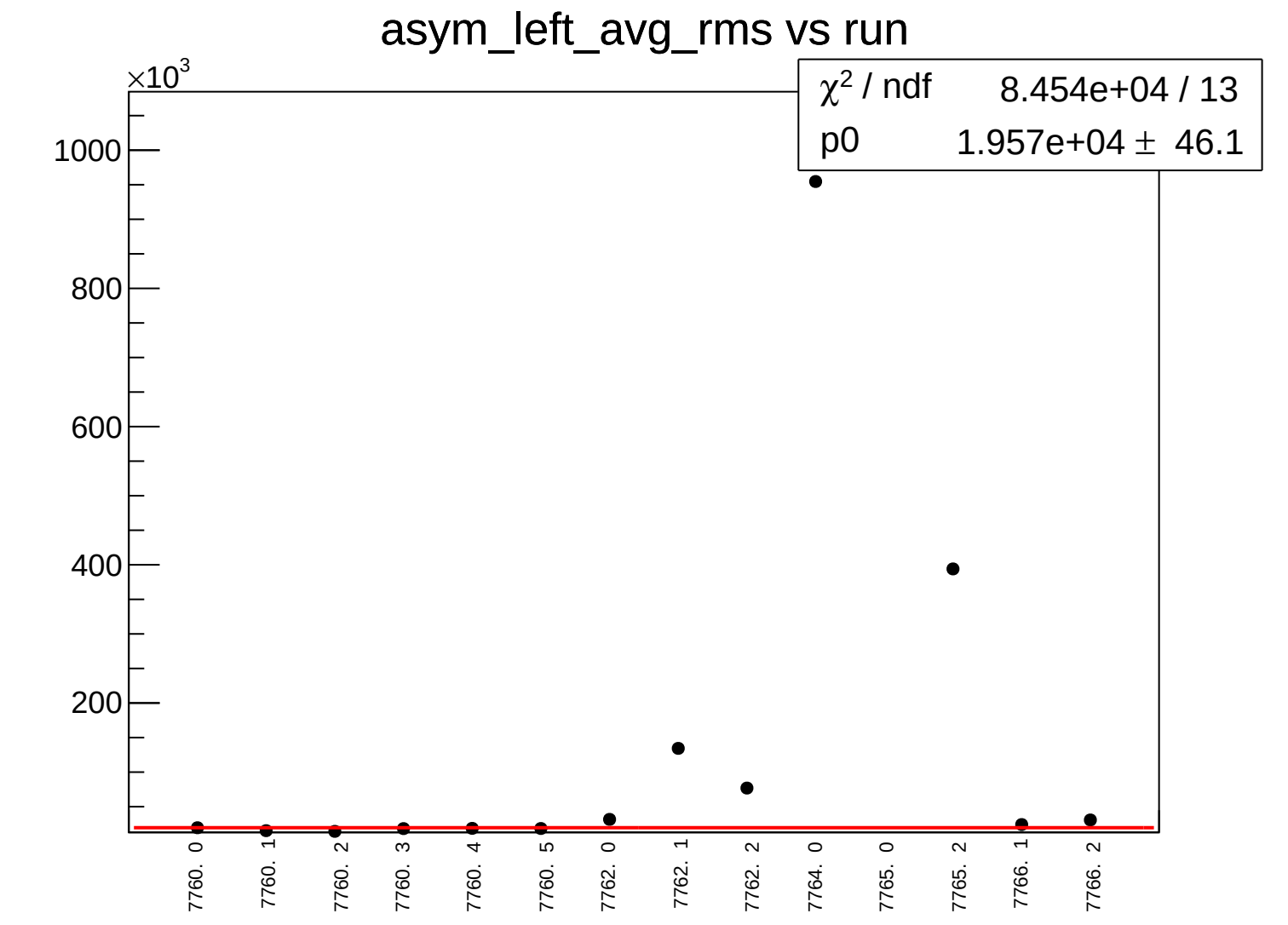

reg_asym_left_avg_rms vs run
×10^3
χ² / ndf 8.456e+04 / 13
p0 1.956e+04 ± 46.07
1000
800
600
400
200
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7764. 0
7765. 0
7765. 2
7766. 1
7766. 2

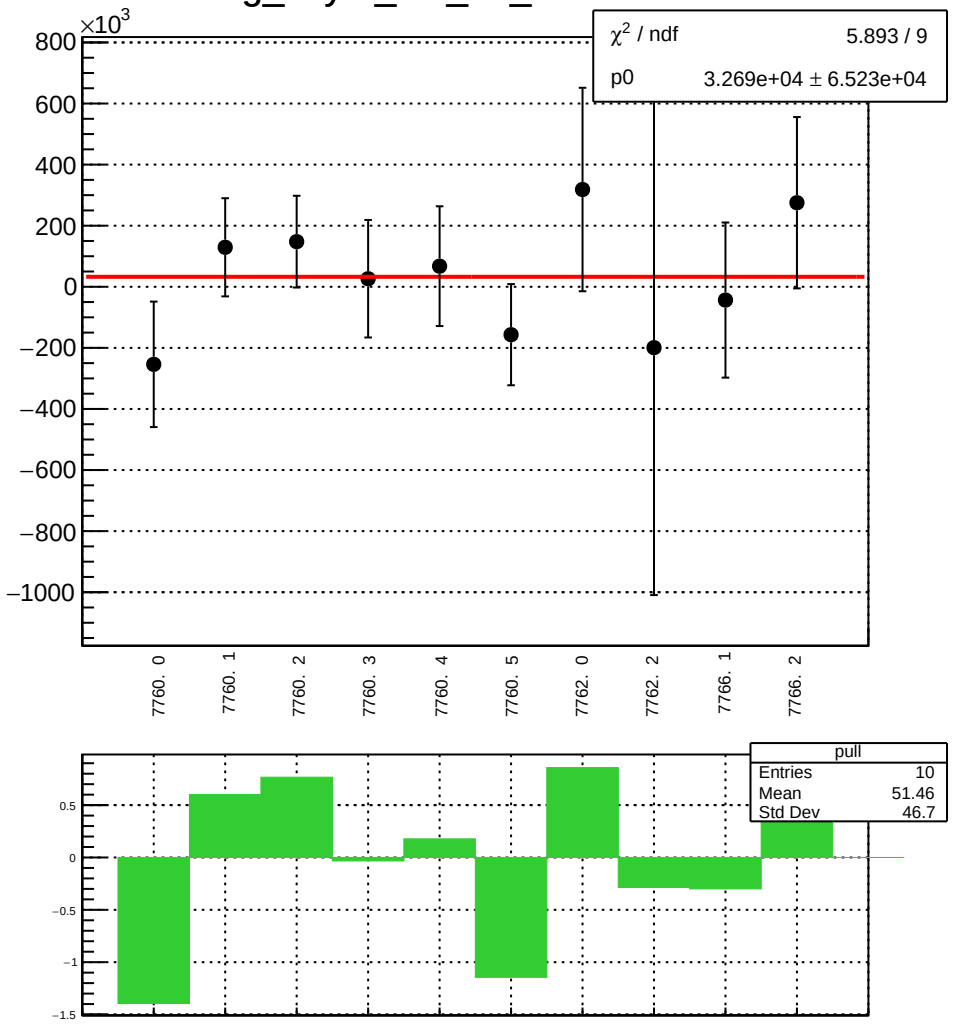

asym_left_avg_correction_mean vs run
×10^3
χ^2 / ndf 18.43 / 21
p0 2307 ± 1932
2000
1500
1000
500
0
−500
−1000
−1500
−2000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7766. 0
7766. 1
7766. 2
pull
Entries 22
Mean 10.25
Std Dev 7.262
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 22
Mean 0.04751
Std Dev 0.9139
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

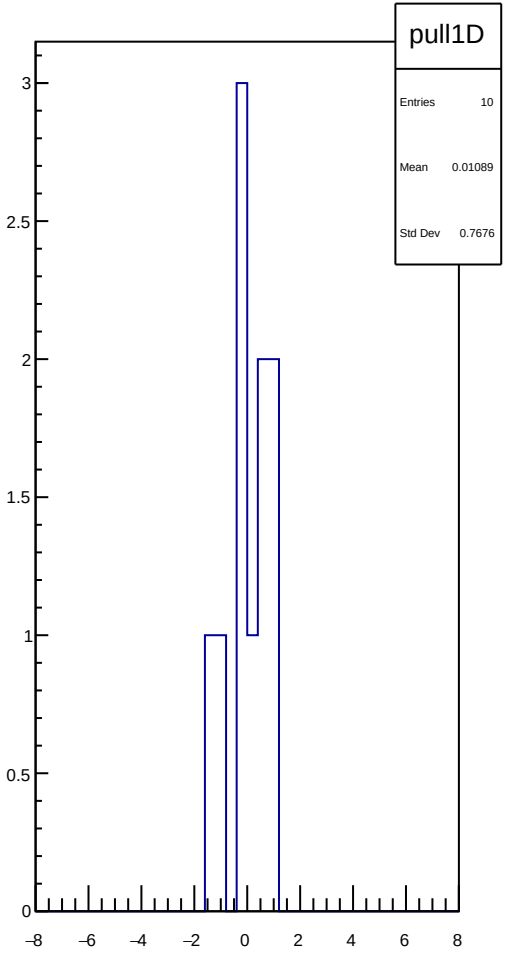

asym_left_avg_correction_rms vs run
×10^3
χ^2 / ndf 3.214e+05 / 25
p0 605.1 ± 1.366
250
200
150
100
50
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

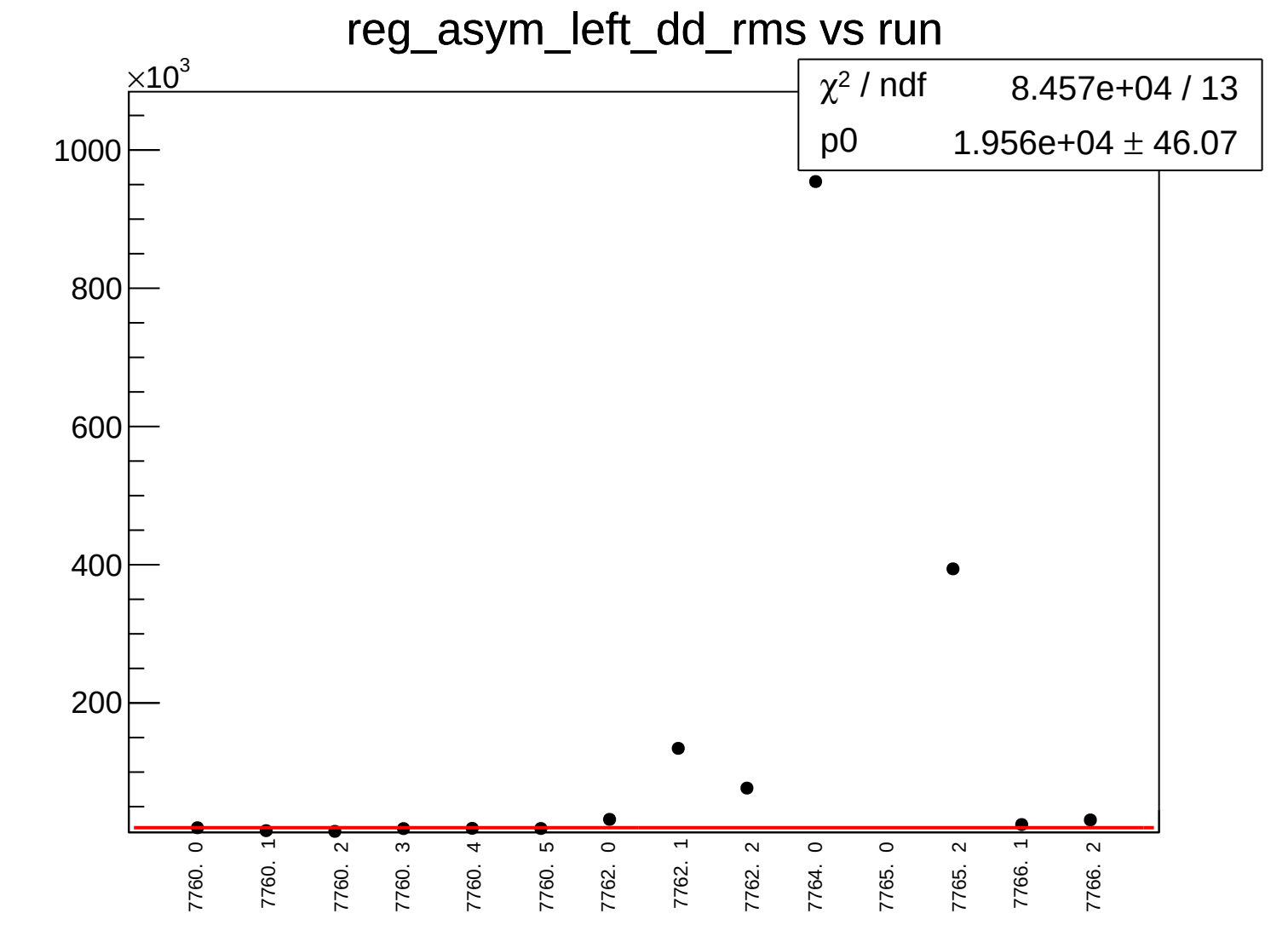

asym_left_avg_mean vs run
×10^3
χ² / ndf 5.573 / 9
p0 −3.212e+04 ± 6.528e+04
1000
800
600
400
200
0
−200
−400
−600
−800
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 2
7766. 1
7766. 2
pull
Entries 10
Mean 33.96
Std Dev 28.97
1
0.5
0
−0.5
−1

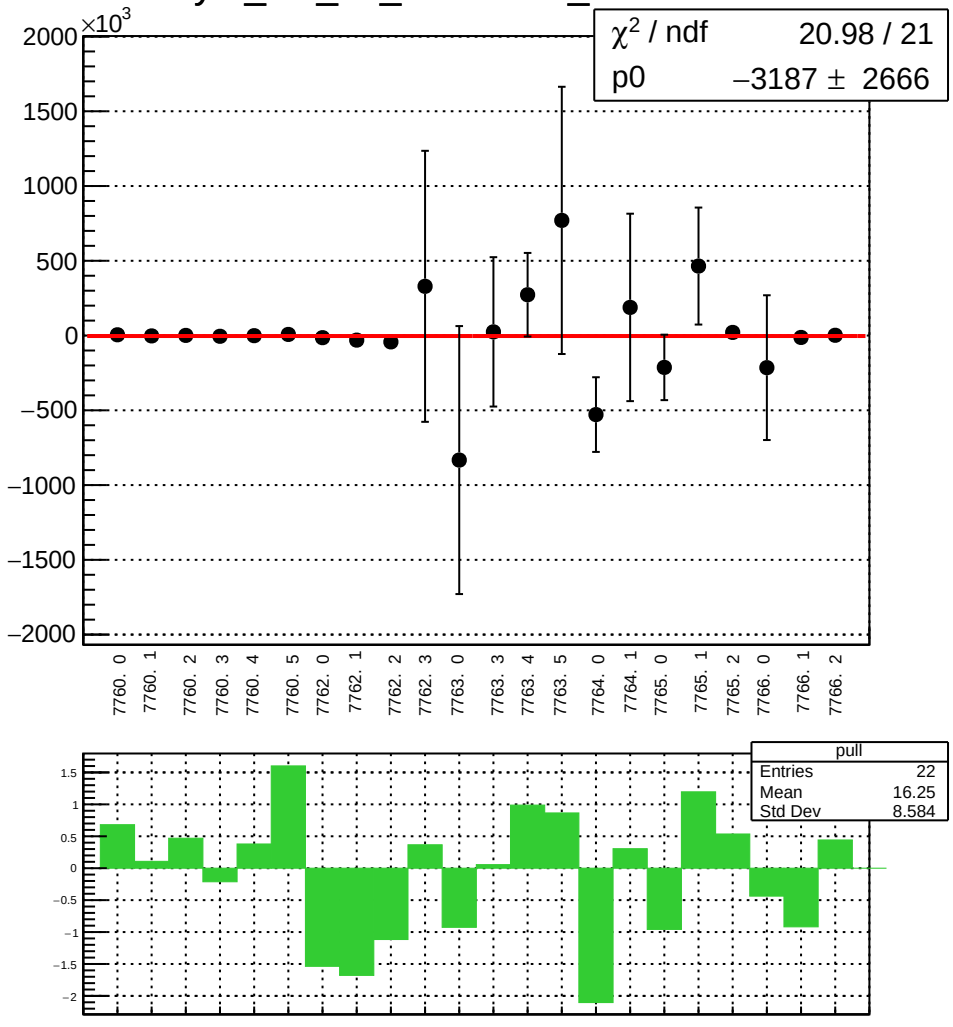

pull1D
Entries 10
Mean −0.02059
Std Dev 0.7463
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

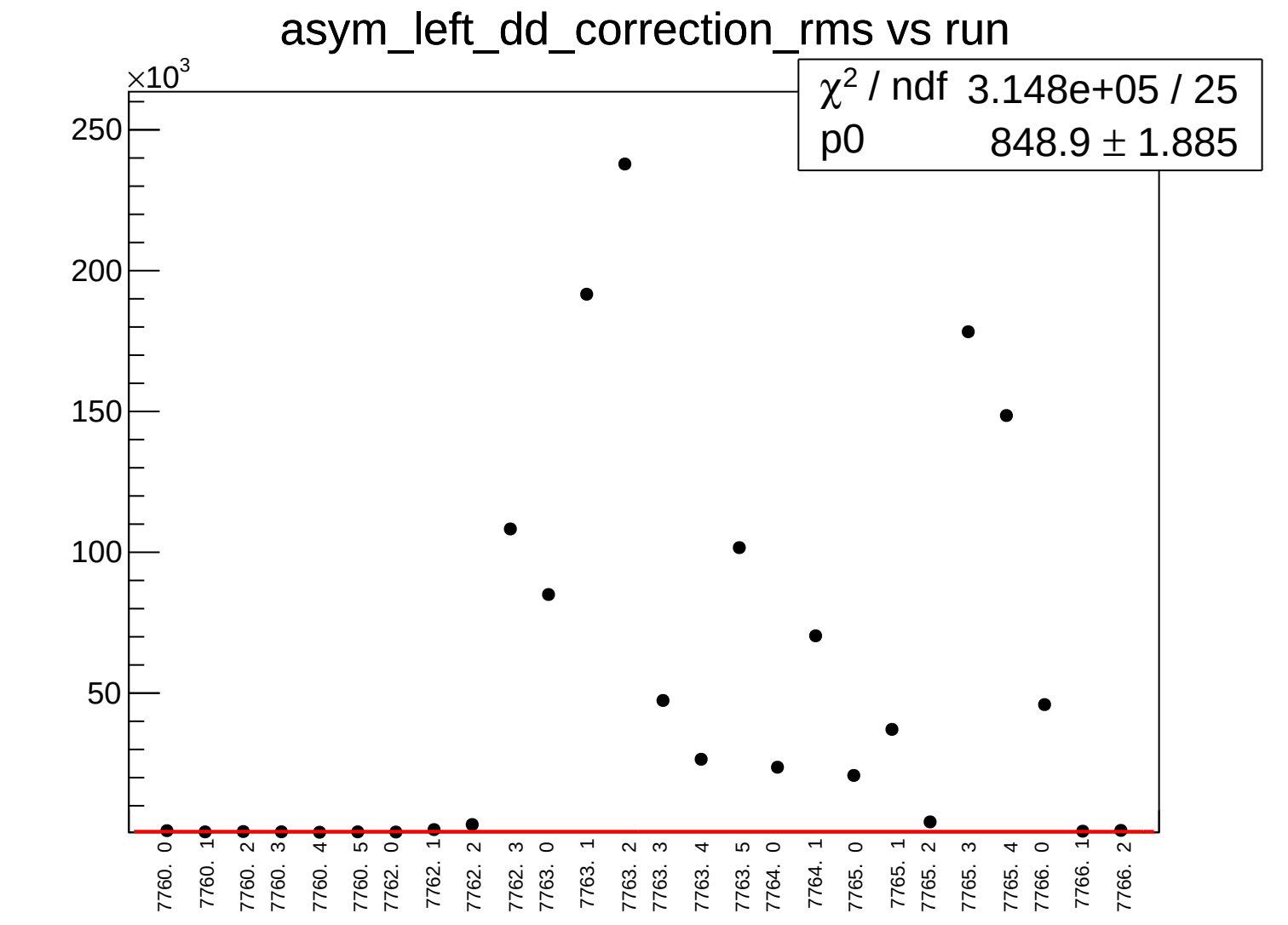

asym_left_avg_rms vs run
×10^3
1000
800
600
400
200
χ² / ndf 8.454e+04 / 13
p0 1.957e+04 ± 46.1
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7764. 0
7765. 0
7765. 2
7766. 1
7766. 2

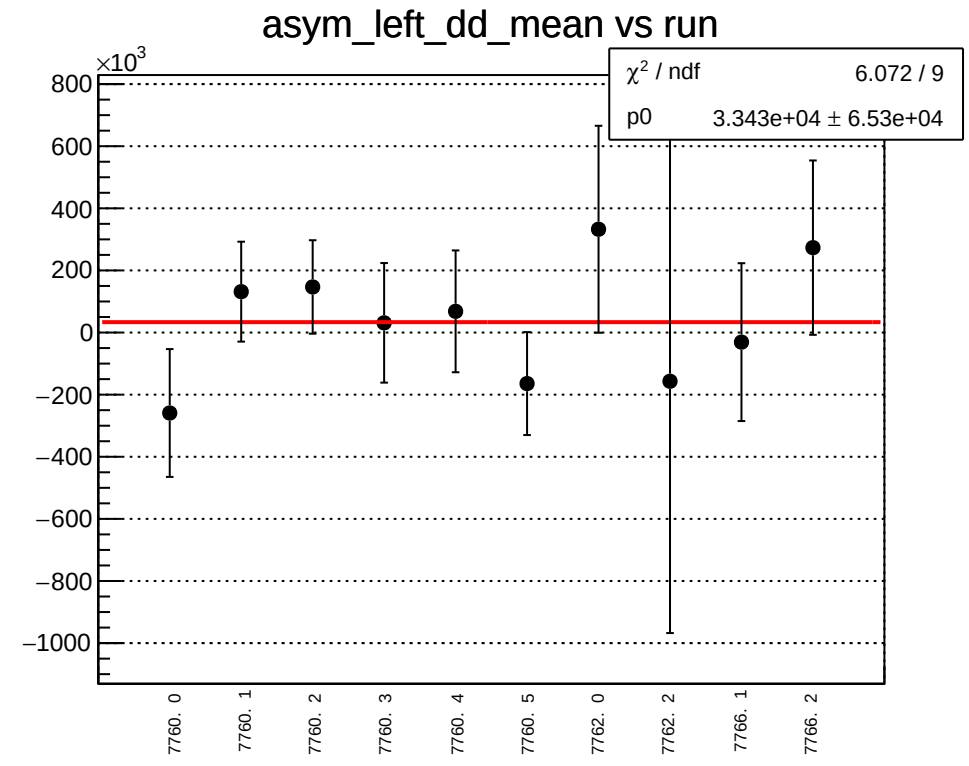

reg_asym_left_dd_mean vs run
×10^3
χ² / ndf 5.893 / 9
p0 3.269e+04 ± 6.523e+04
800
600
400
200
0
−200
−400
−600
−800
−1000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 2
7766. 1
7766. 2
pull
Entries 10
Mean 51.46
Std Dev 46.7
0.5
0
−0.5
−1
−1.5

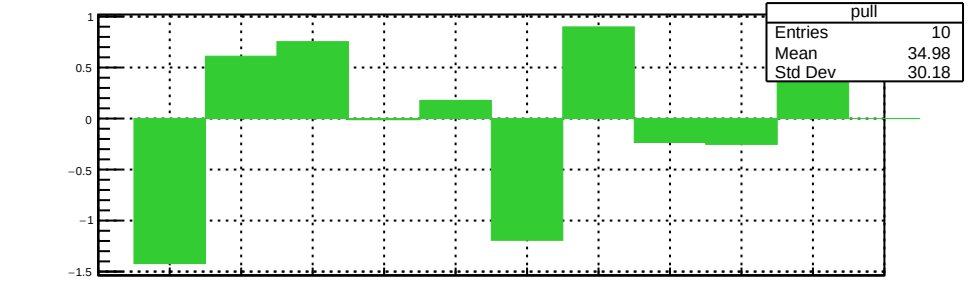

pull1D
Entries 10
Mean 0.01089
Std Dev 0.7676
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

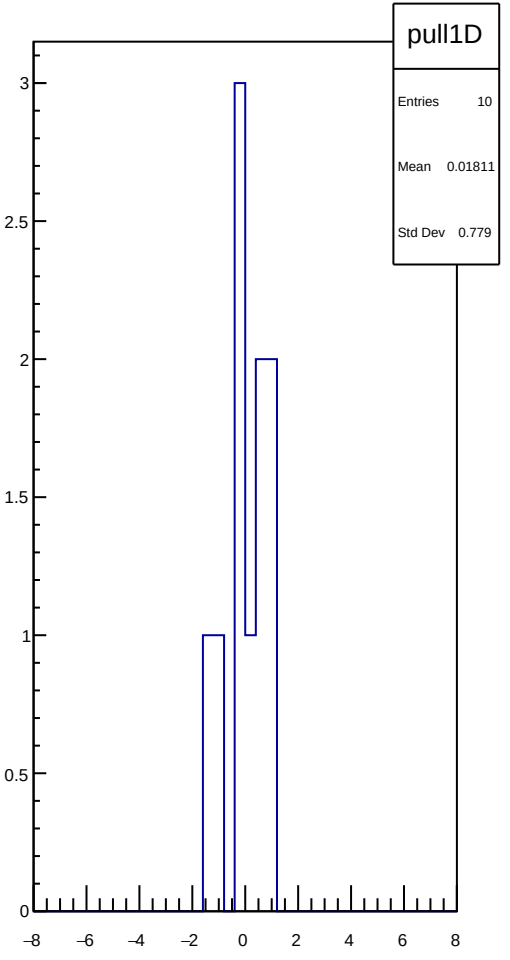

reg_asym_left_dd_rms vs run
×10^3
χ² / ndf 8.457e+04 / 13
p0 1.956e+04 ± 46.07
1000
800
600
400
200
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7764. 0
7765. 0
7765. 2
7766. 1
7766. 2

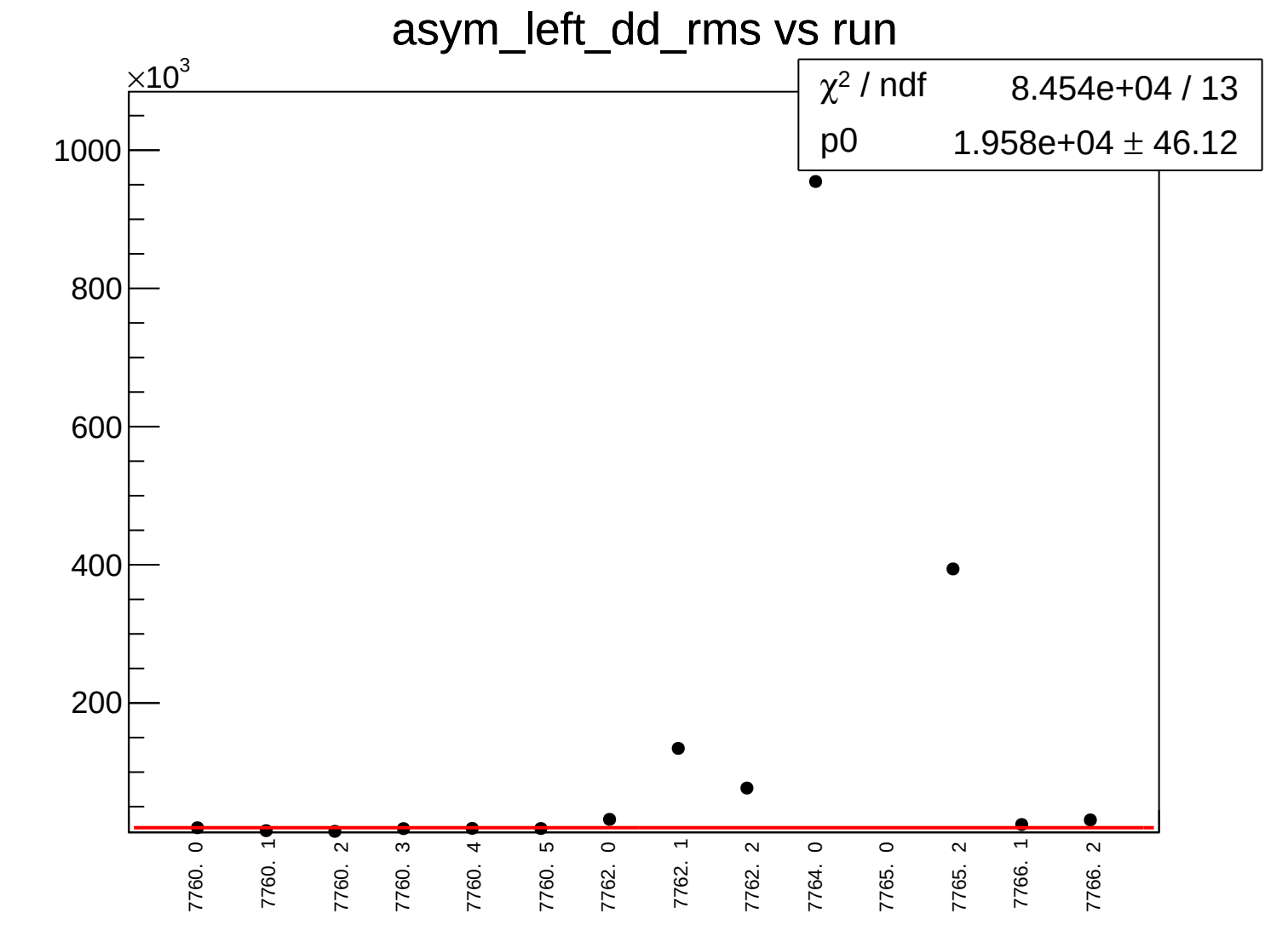

asym_left_dd_correction_mean vs run
χ² / ndf 20.98 / 21
p0 −3187 ± 2666
×10³
2000
1500
1000
500
0
−500
−1000
−1500
−2000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7766. 0
7766. 1
7766. 2
pull
Entries 22
Mean 16.25
Std Dev 8.584
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 22
Mean −0.08603
Std Dev 0.9728
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

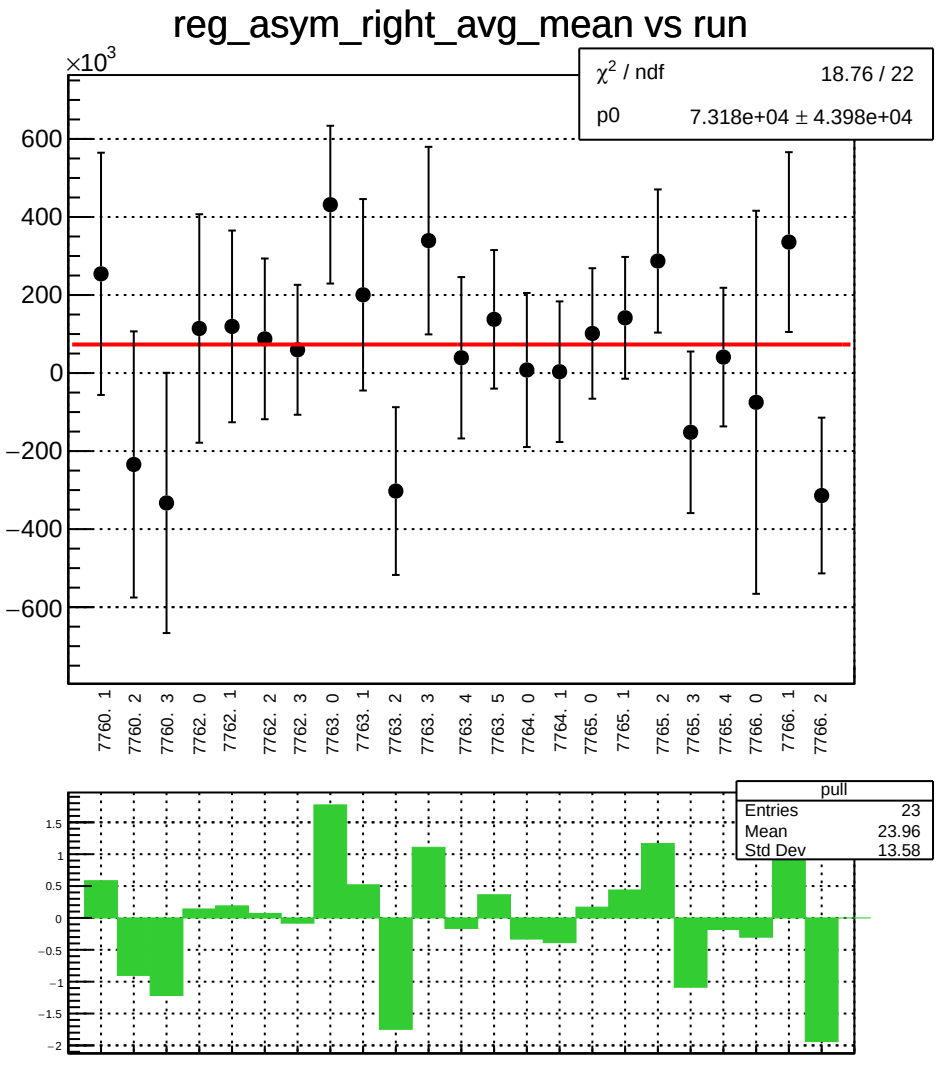

asym_left_dd_correction_rms vs run
×10^3
250
200
150
100
50
χ² / ndf 3.148e+05 / 25
p0 848.9 ± 1.885
17760. 0
17760. 1
17760. 2
17760. 3
17760. 4
17760. 5
17762. 0
17762. 1
17762. 2
17762. 3
17763. 0
17763. 1
17763. 2
17763. 3
17763. 4
17763. 5
17764. 0
17764. 1
17765. 0
17765. 1
17765. 2
17765. 3
17765. 4
17766. 0
17766. 1
17766. 2

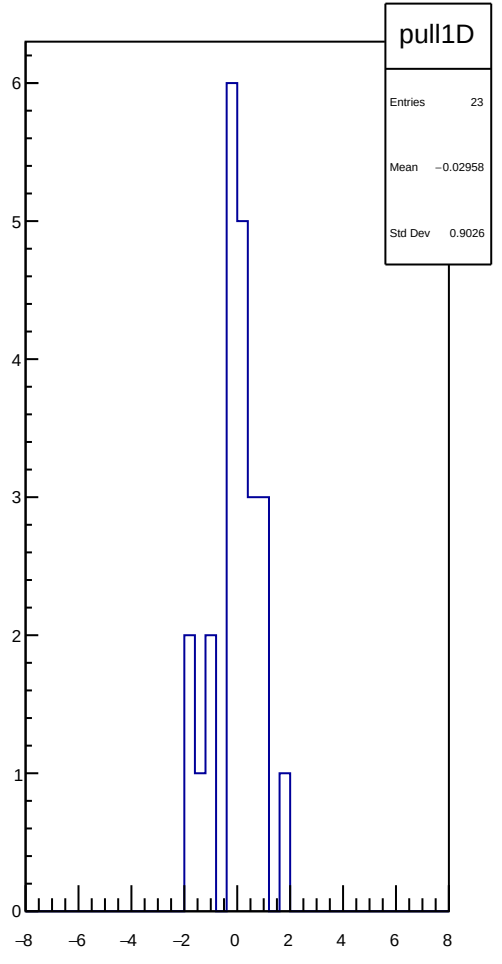

asym_left_dd_mean vs run
×10^3
χ² / ndf 6.072 / 9
p0 3.343e+04 ± 6.53e+04
800
600
400
200
0
−200
−400
−600
−800
−1000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 2
7766. 1
7766. 2

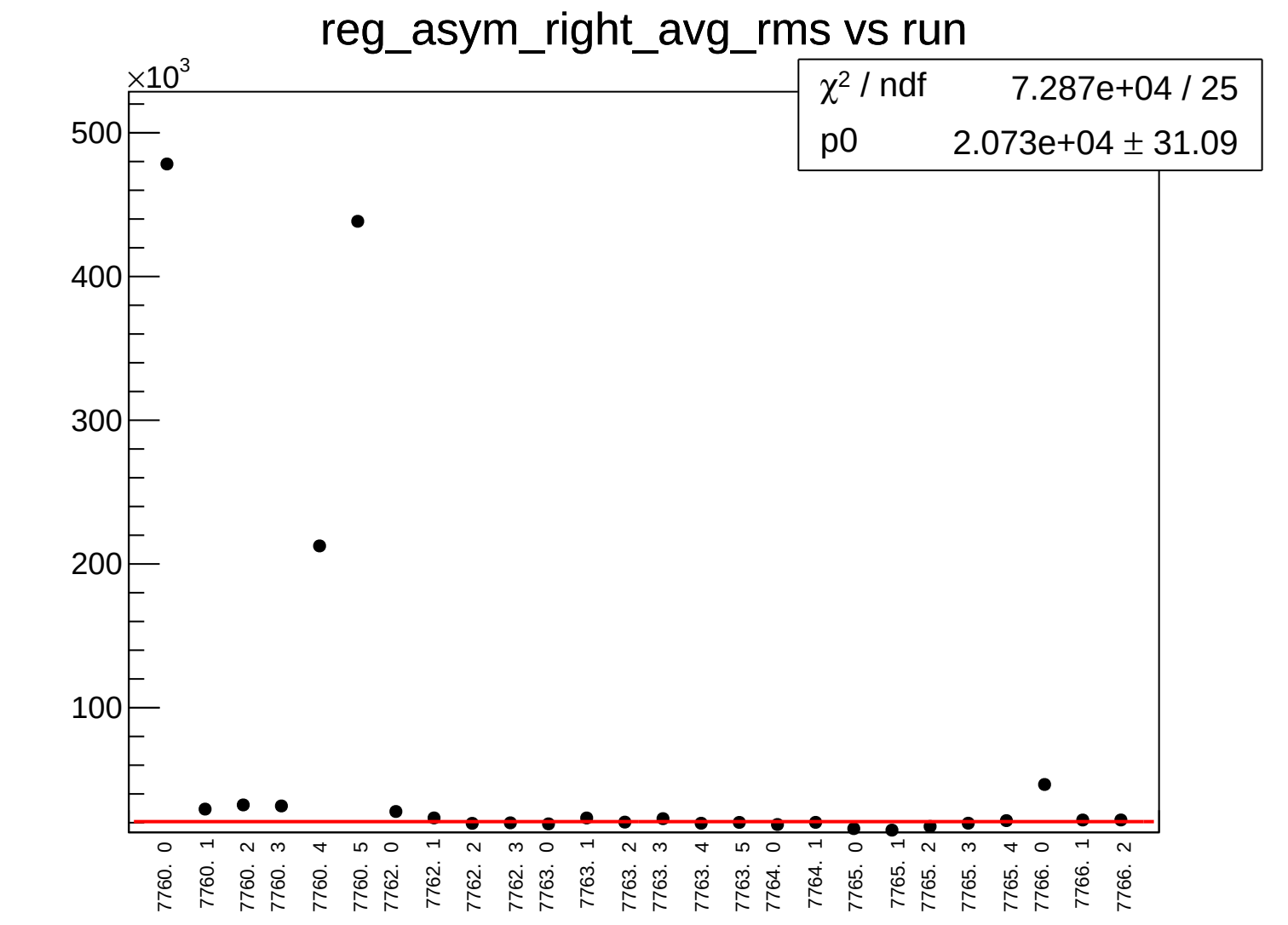

pull
Entries 10
Mean 34.98
Std Dev 30.18
1
0.5
0
−0.5
−1
−1.5

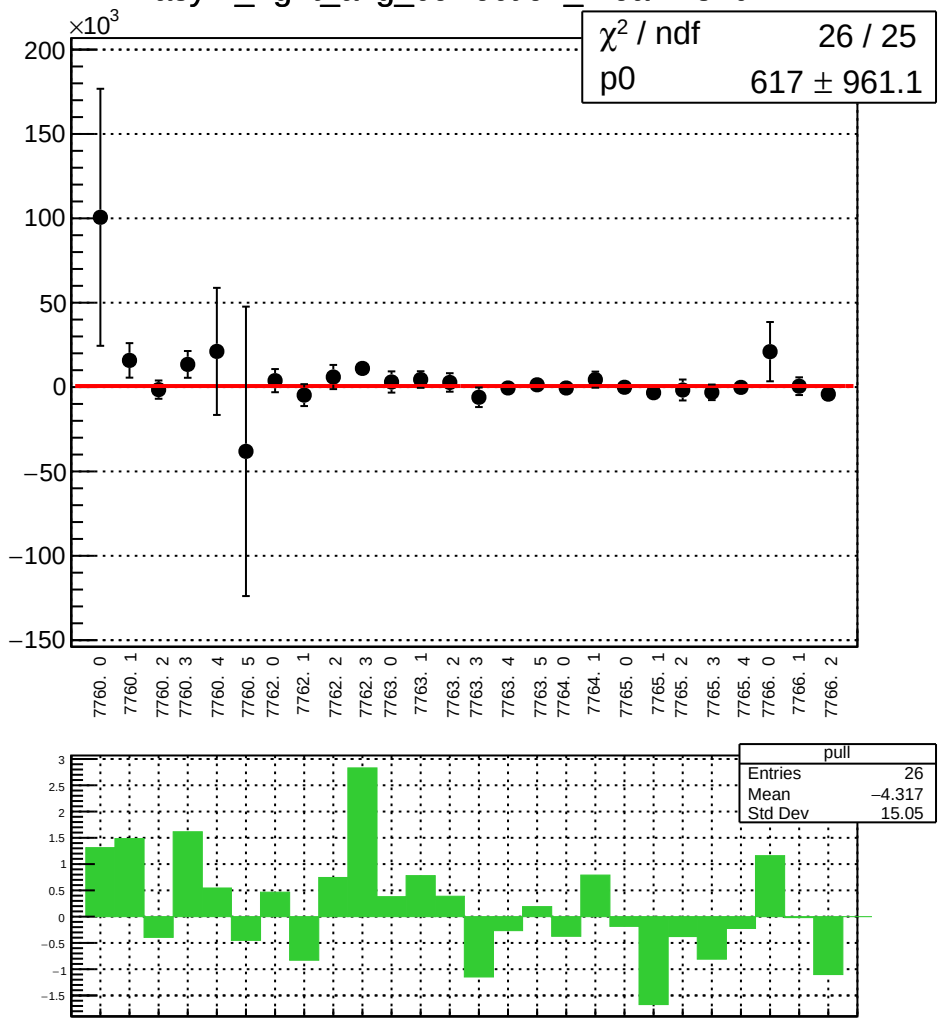

pull1D
Entries 10
Mean 0.01811
Std Dev 0.779
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

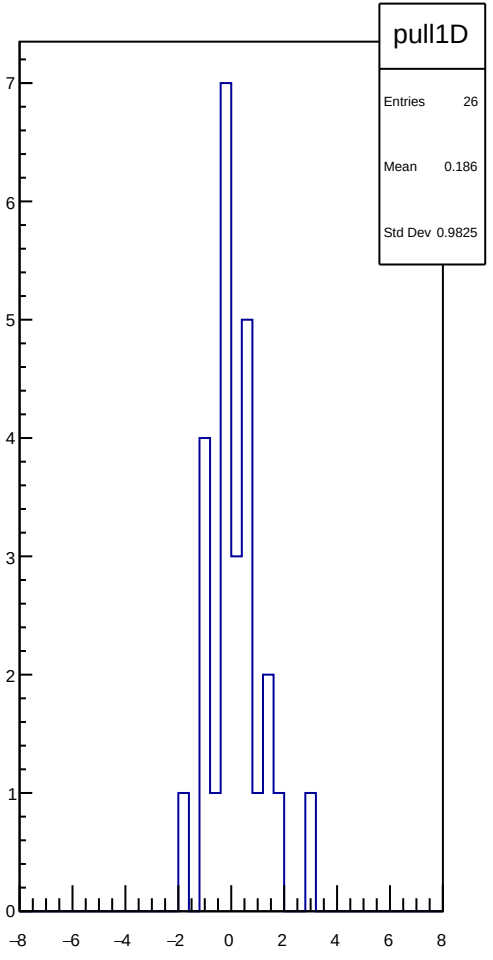

asym_left_dd_rms vs run
×10^3
1000
800
600
400
200
χ² / ndf 8.454e+04 / 13
p0 1.958e+04 ± 46.12
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7764. 0
7765. 0
7765. 2
7766. 1
7766. 2

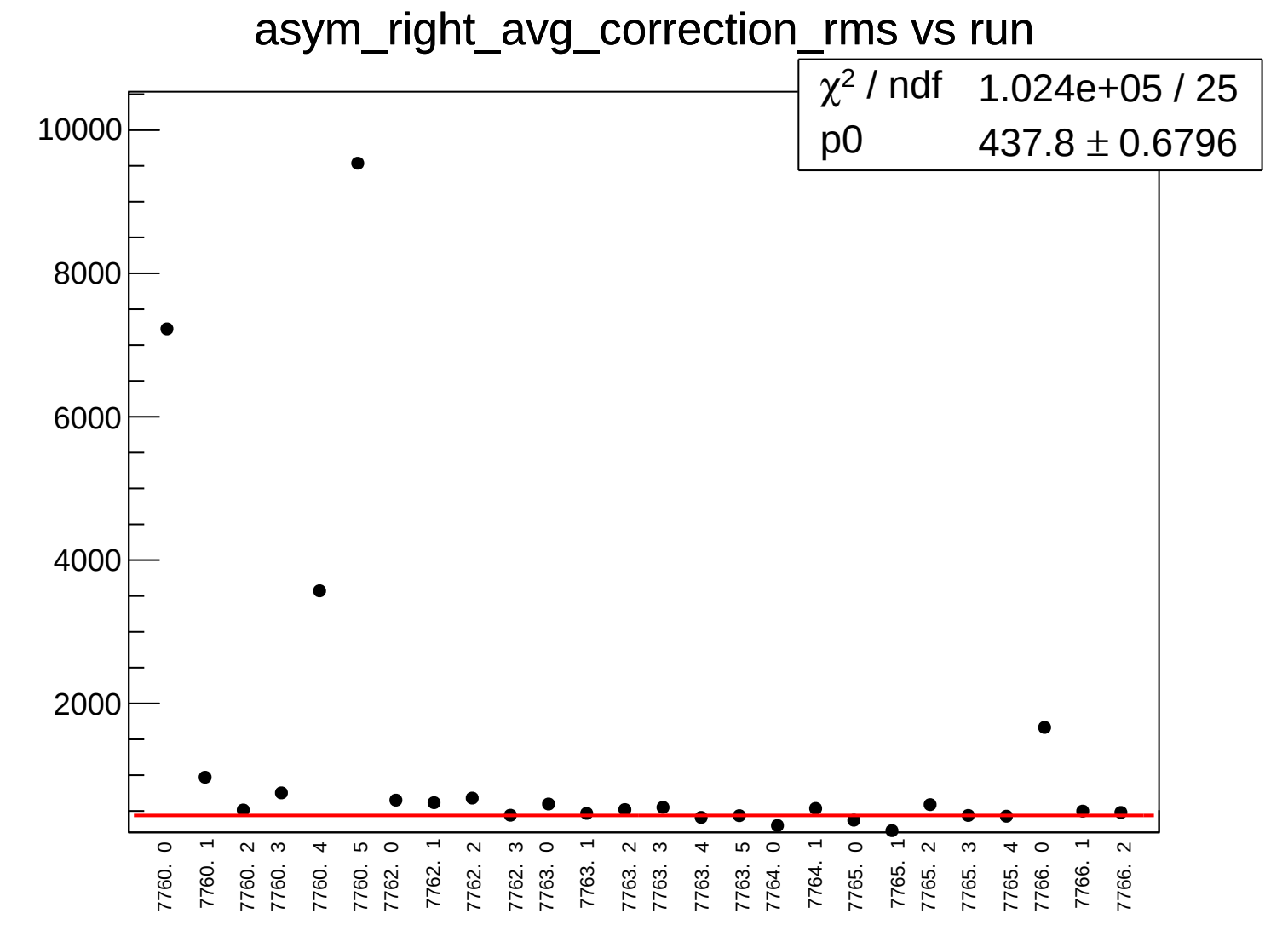

reg_asym_right_avg_mean vs run
×10^3
χ² / ndf 18.76 / 22
p0 7.318e+04 ± 4.398e+04
600
400
200
0
−200
−400
−600
7760. 1
7760. 2
7760. 3
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 23
Mean 23.96
Std Dev 13.58
1.5
1
0.5
0
−0.5
−1
−1.5
−2

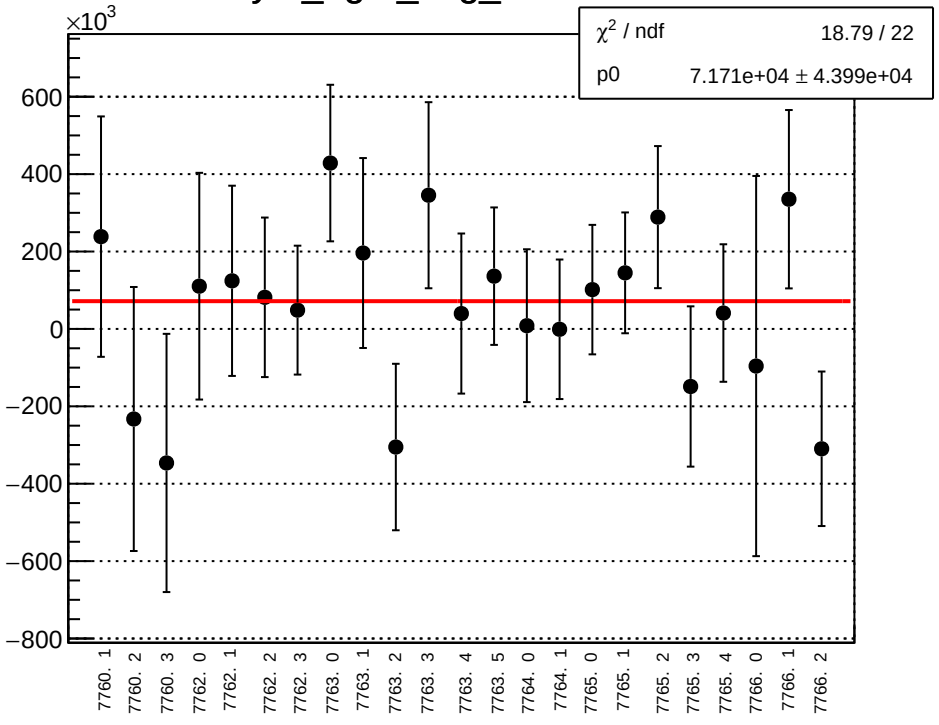

pull1D
Entries 23
Mean −0.02958
Std Dev 0.9026
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

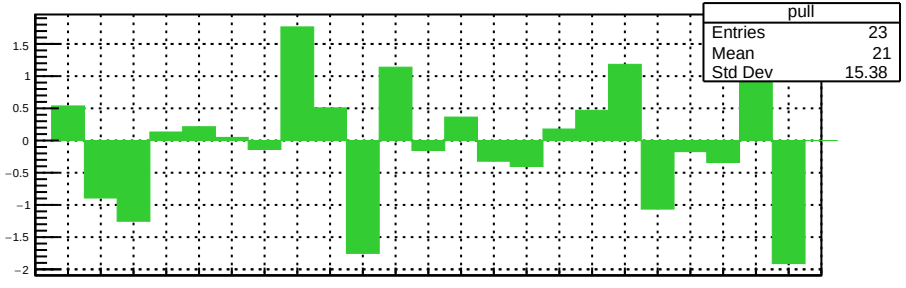

reg_asym_right_avg_rms vs run
×10^3
χ² / ndf 7.287e+04 / 25
p0 2.073e+04 ± 31.09
500
400
300
200
100
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

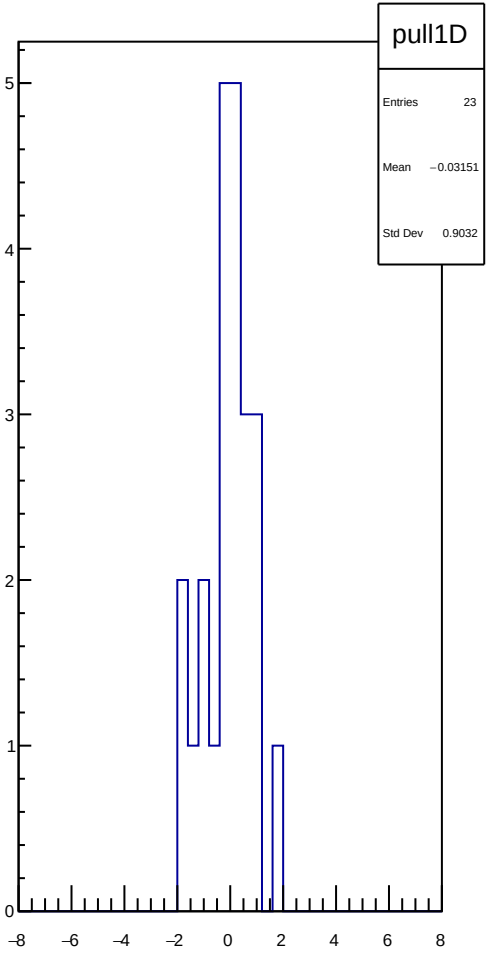

asym_right_avg_correction_mean vs run
×10^3
χ² / ndf 26 / 25
p0 617 ± 961.1
200
150
100
50
0
−50
−100
−150
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −4.317
Std Dev 15.05
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

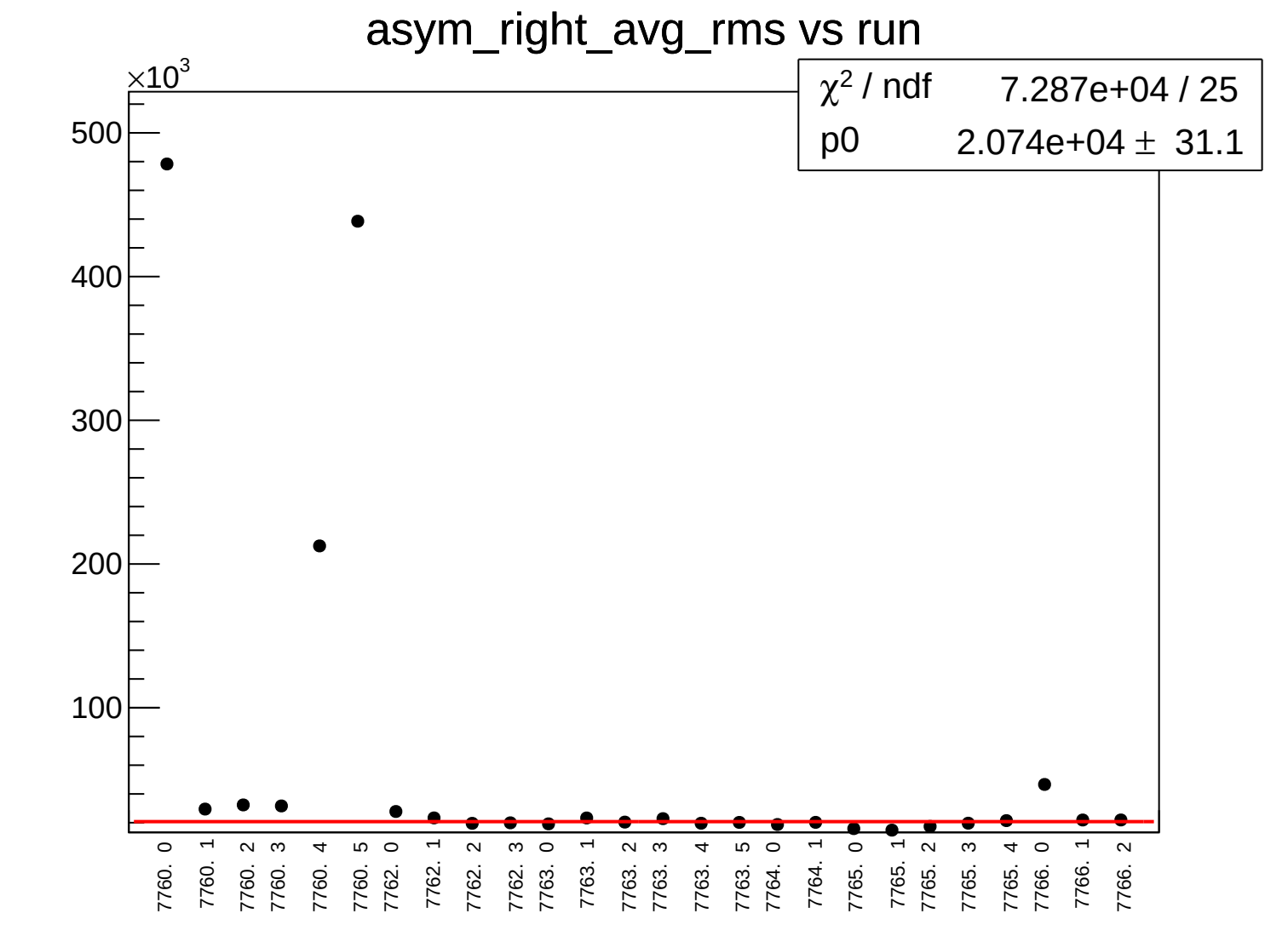

pull1D
Entries 26
Mean 0.186
Std Dev 0.9825
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

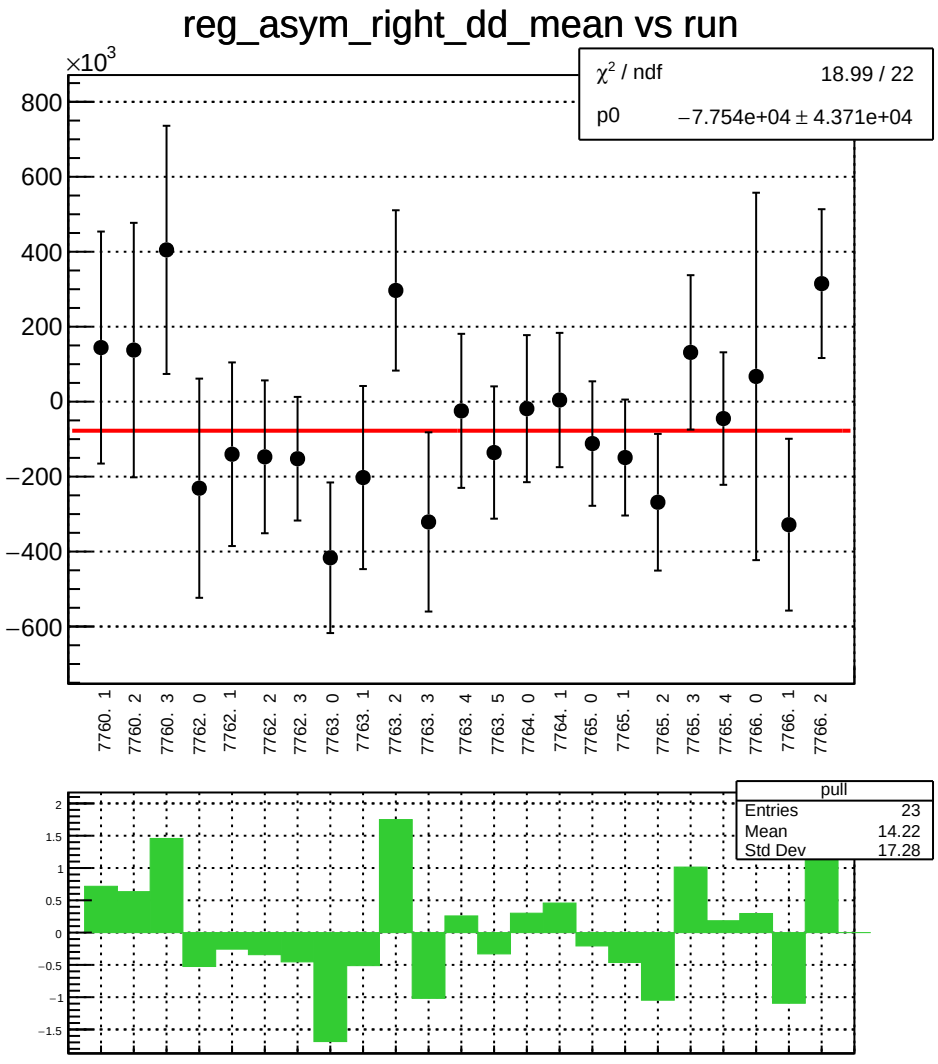

asym_right_avg_correction_rms vs run
χ² / ndf 1.024e+05 / 25
p0 437.8 ± 0.6796
10000
8000
6000
4000
2000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

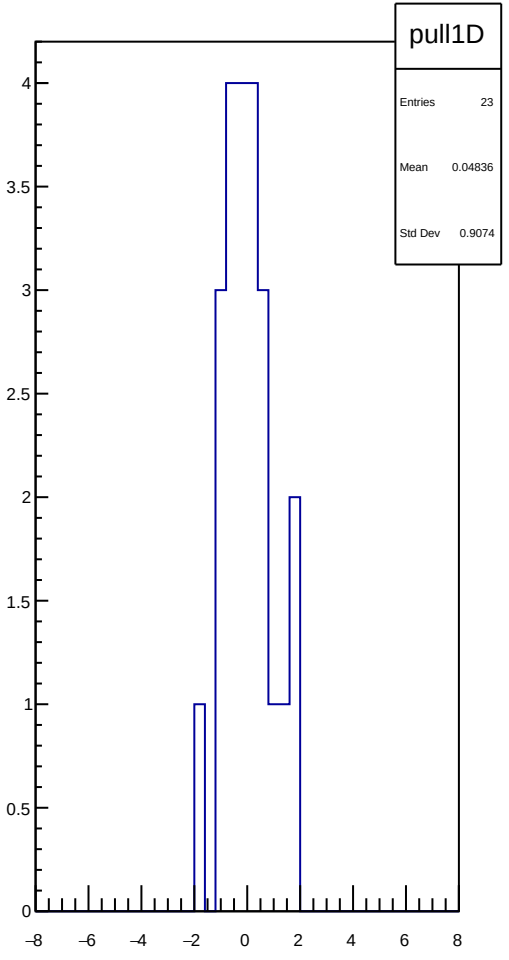

asym_right_avg_mean vs run
×10^3
χ² / ndf 18.79 / 22
p0 7.171e+04 ± 4.399e+04
600
400
200
0
−200
−400
−600
−800
7760. 1
7760. 2
7760. 3
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

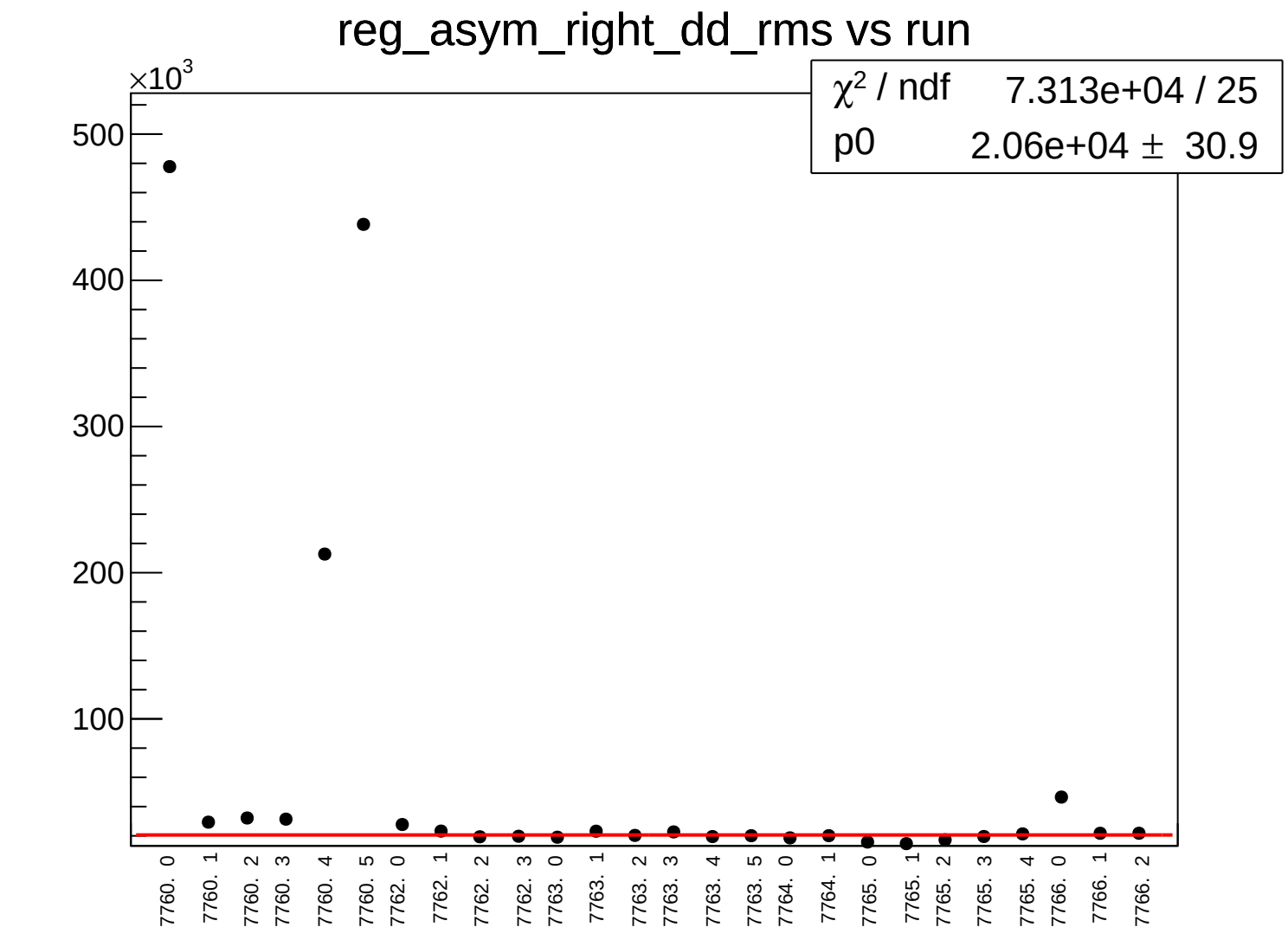

pull
Entries 23
Mean 21
Std Dev 15.38
1.5
1
0.5
0
−0.5
−1
−1.5
−2

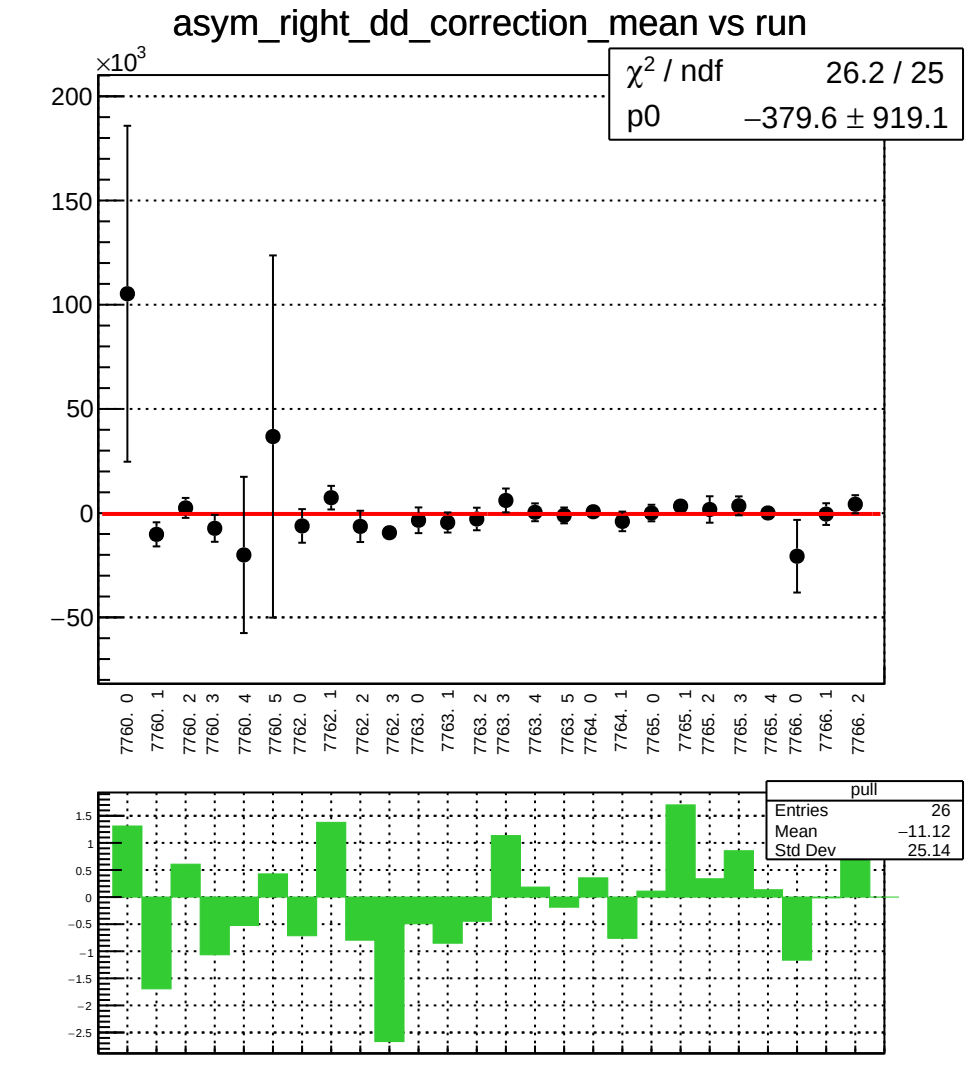

pull1D
Entries 23
Mean −0.03151
Std Dev 0.9032
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

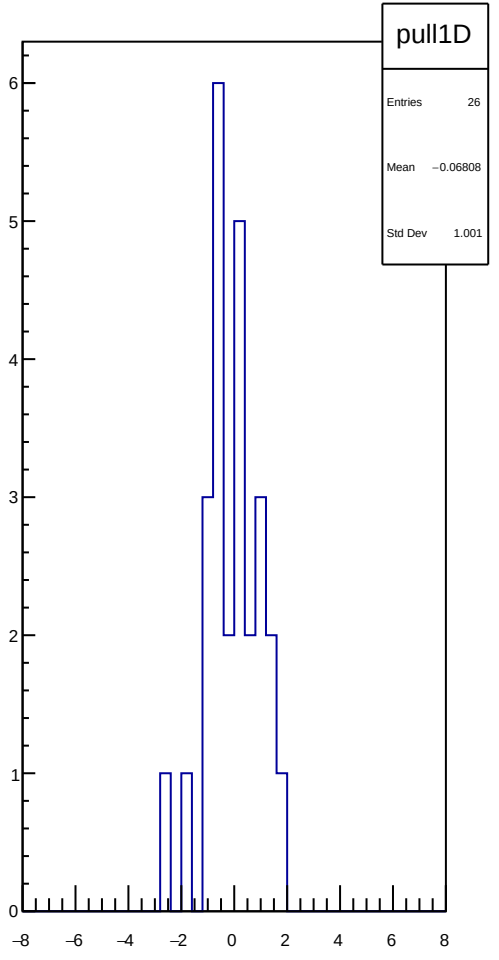

asym_right_avg_rms vs run
×10^3
500
400
300
200
100
χ² / ndf 7.287e+04 / 25
p0 2.074e+04 ± 31.1
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

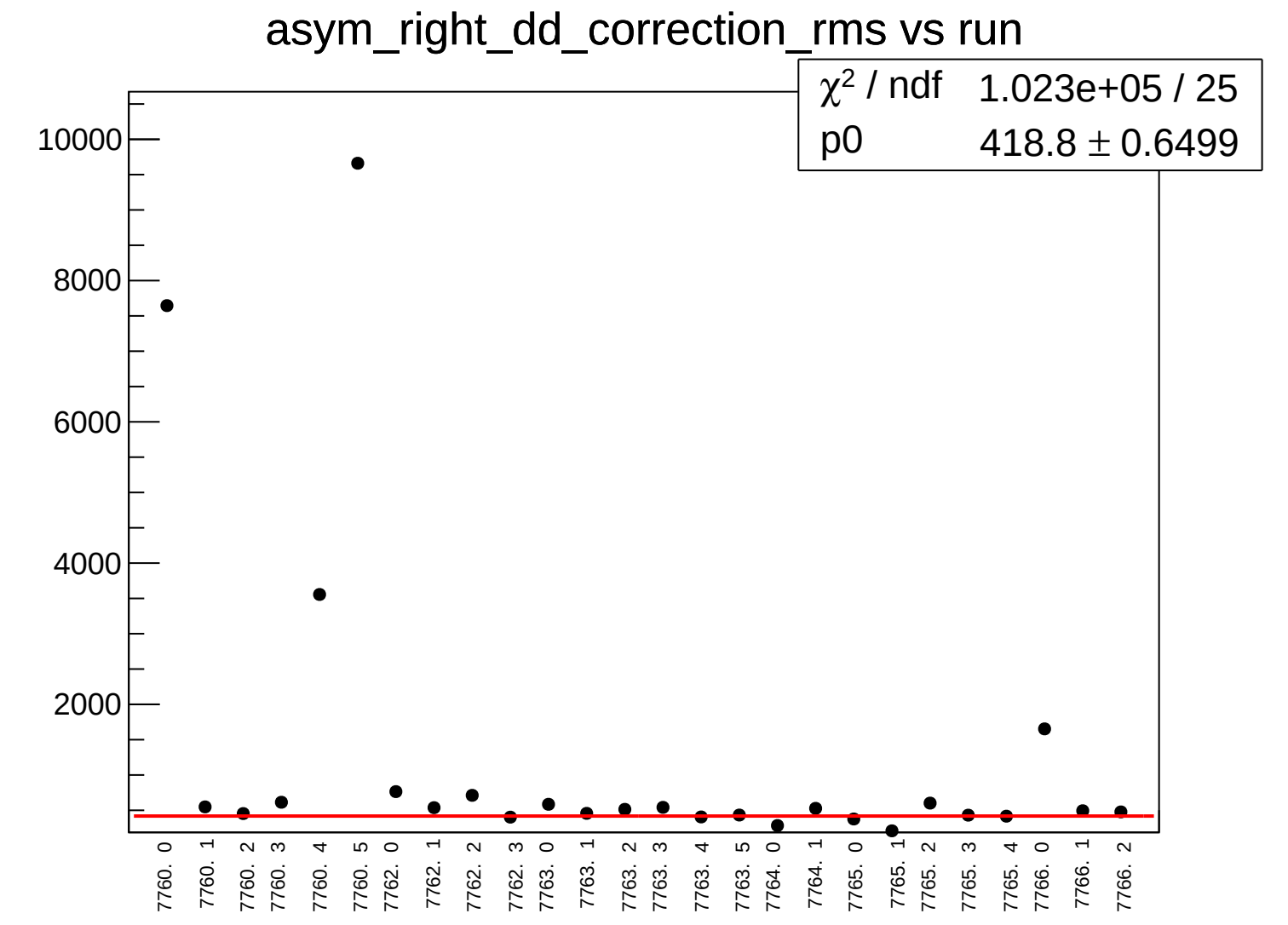

reg_asym_right_dd_mean vs run
×10^3
χ² / ndf 18.99 / 22
p0 −7.754e+04 ± 4.371e+04
800
600
400
200
0
−200
−400
−600
7760. 1
7760. 2
7760. 3
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 23
Mean 14.22
Std Dev 17.28
2
1.5
1
0.5
0
−0.5
−1
−1.5

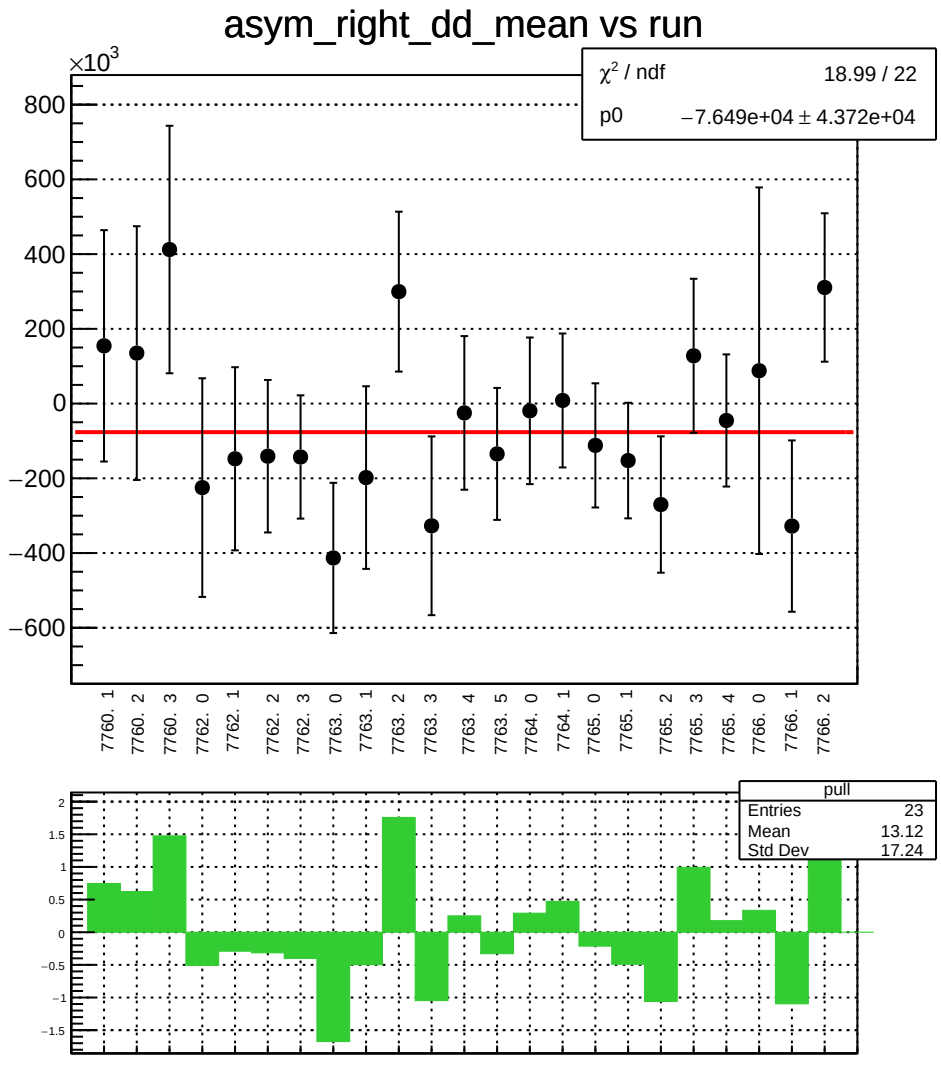

pull1D
Entries 23
Mean 0.04836
Std Dev 0.9074
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

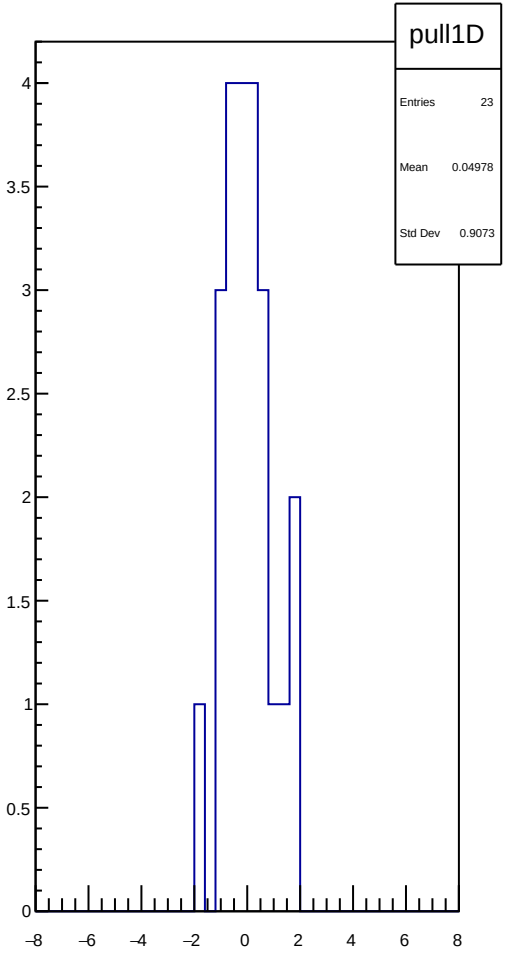

reg_asym_right_dd_rms vs run
×10^3
χ^2 / ndf 7.313e+04 / 25
p0 2.06e+04 ± 30.9
500
400
300
200
100
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

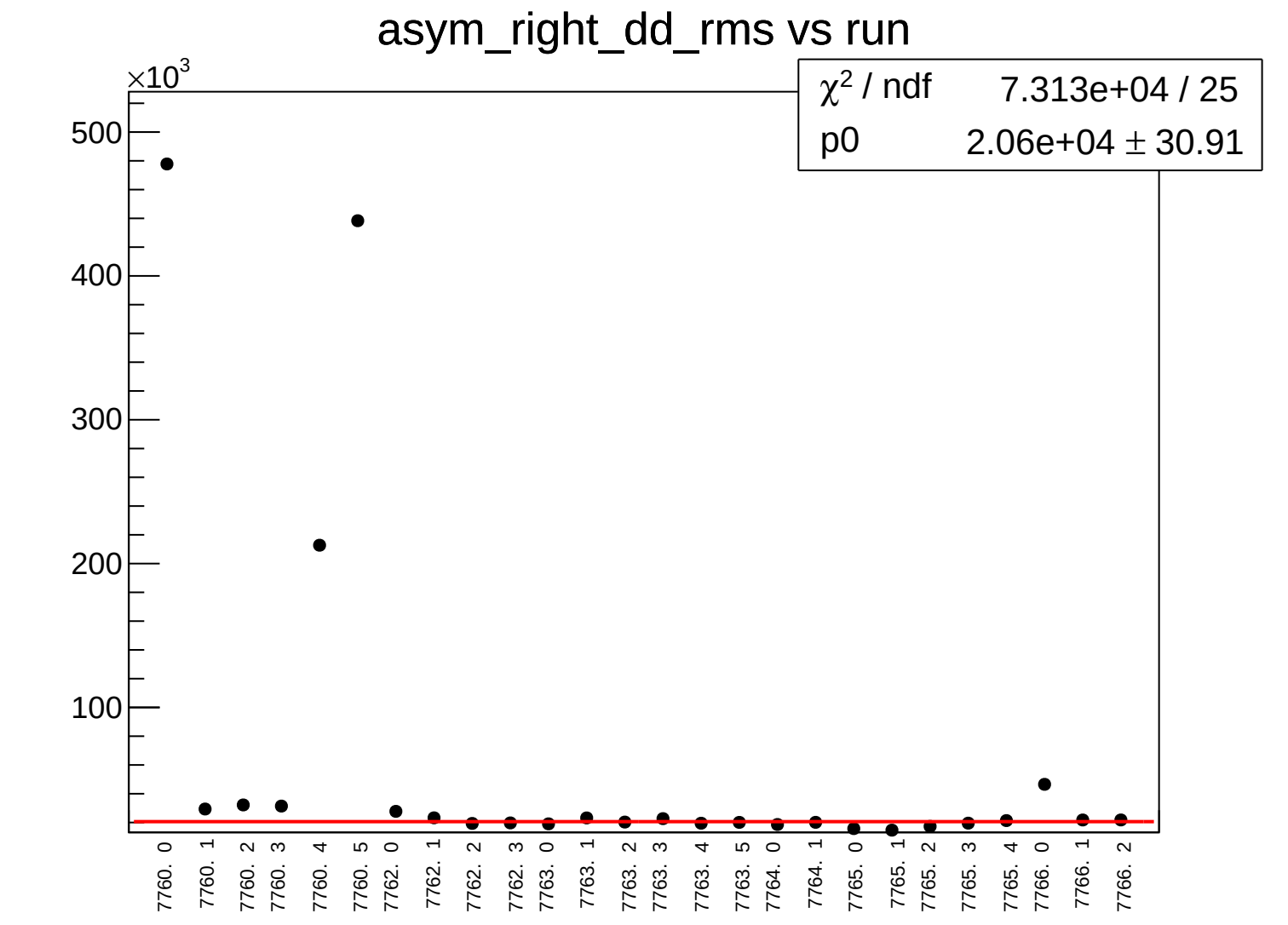

asym_right_dd_correction_mean vs run
×10^3
χ^2 / ndf 26.2 / 25
p0 −379.6 ± 919.1
200
150
100
50
0
−50
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −11.12
Std Dev 25.14
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

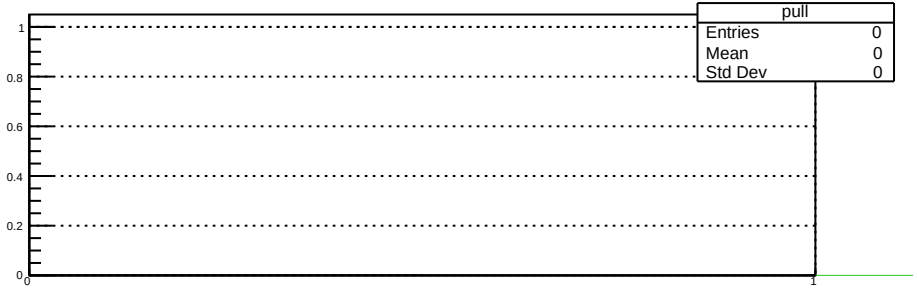

pull1D
Entries 26
Mean −0.06808
Std Dev 1.001
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

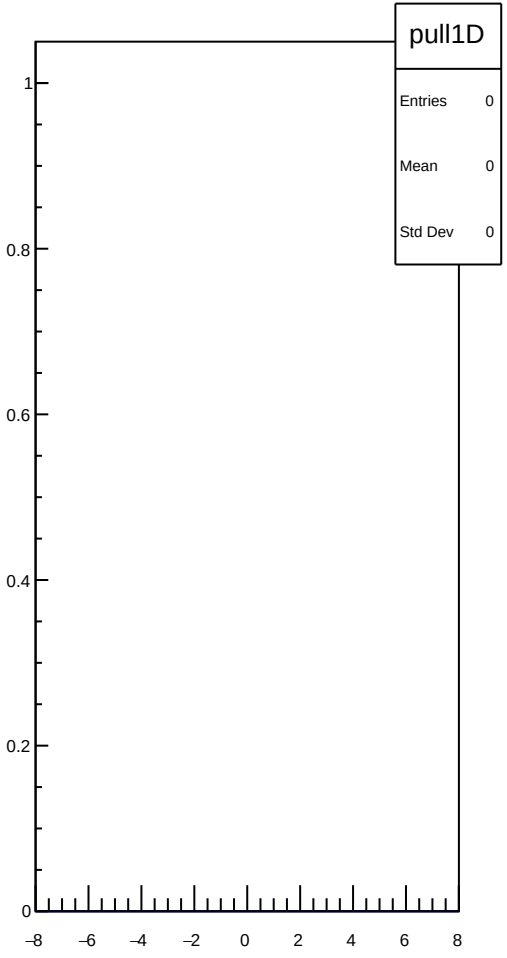

asym_right_dd_correction_rms vs run
χ² / ndf 1.023e+05 / 25
p0 418.8 ± 0.6499
10000
8000
6000
4000
2000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

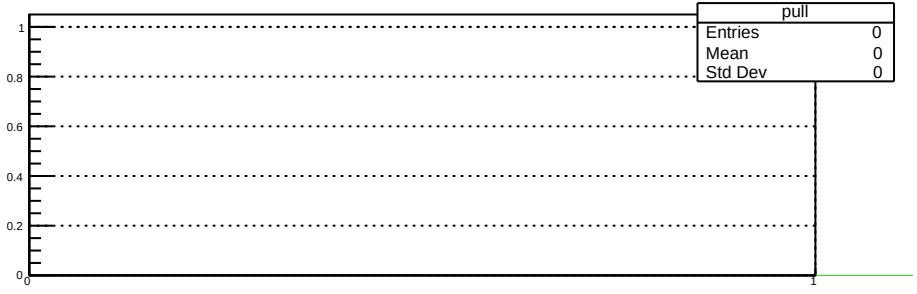

asym_right_dd_mean vs run
×10^3
χ² / ndf 18.99 / 22
p0 −7.649e+04 ± 4.372e+04
800
600
400
200
0
−200
−400
−600
7760. 1
7760. 2
7760. 3
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 23
Mean 13.12
Std Dev 17.24
2
1.5
1
0.5
0
−0.5
−1
−1.5

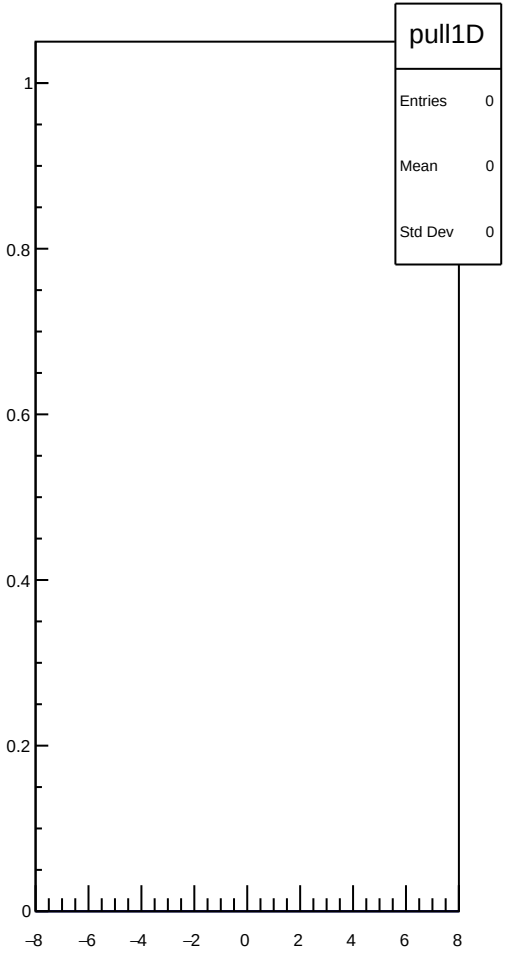

pull1D
Entries 23
Mean 0.04978
Std Dev 0.9073
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

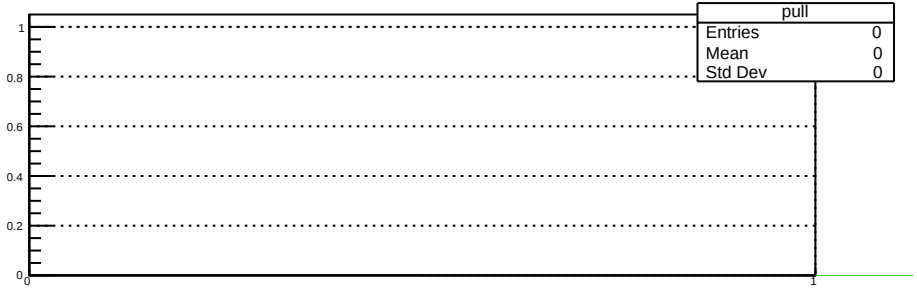

asym_right_dd_rms vs run
×10^3
500
400
300
200
100
χ² / ndf 7.313e+04 / 25
p0 2.06e+04 ± 30.91
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

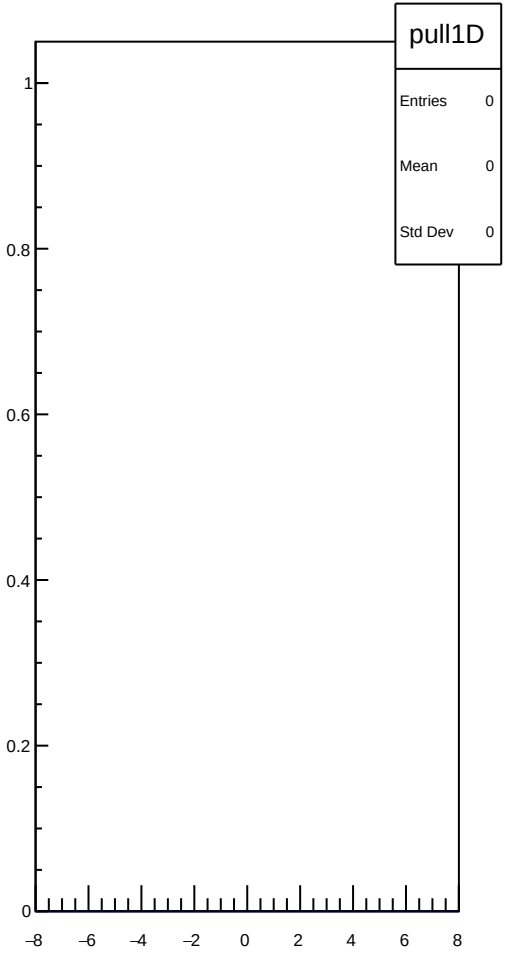

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

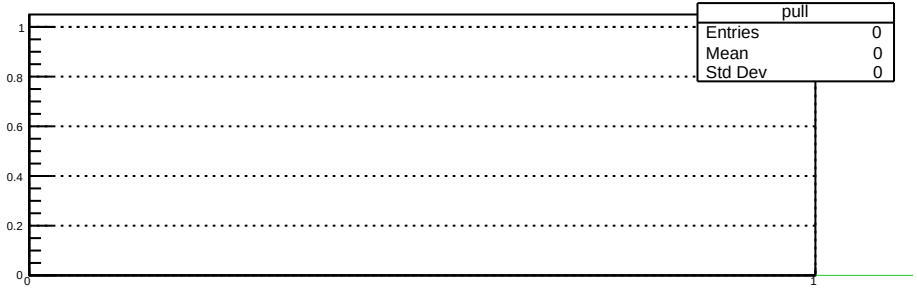

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

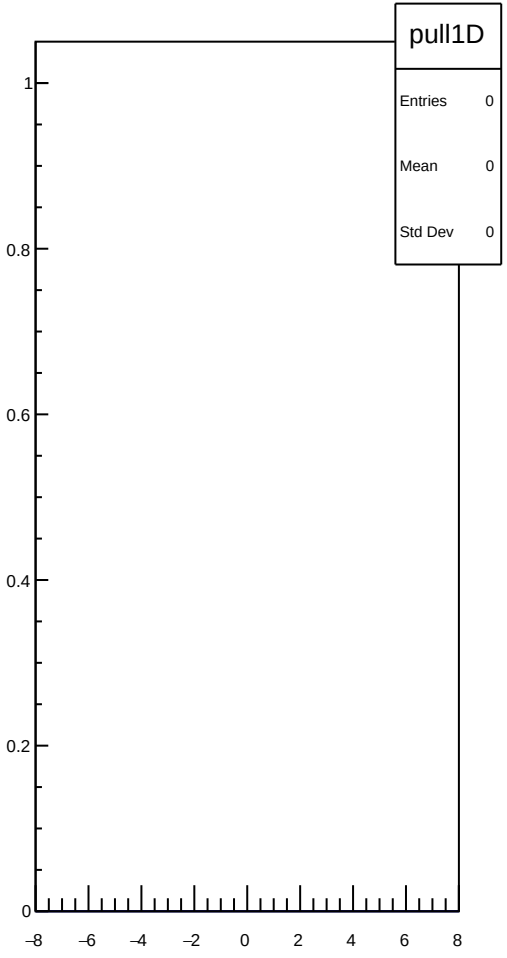

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

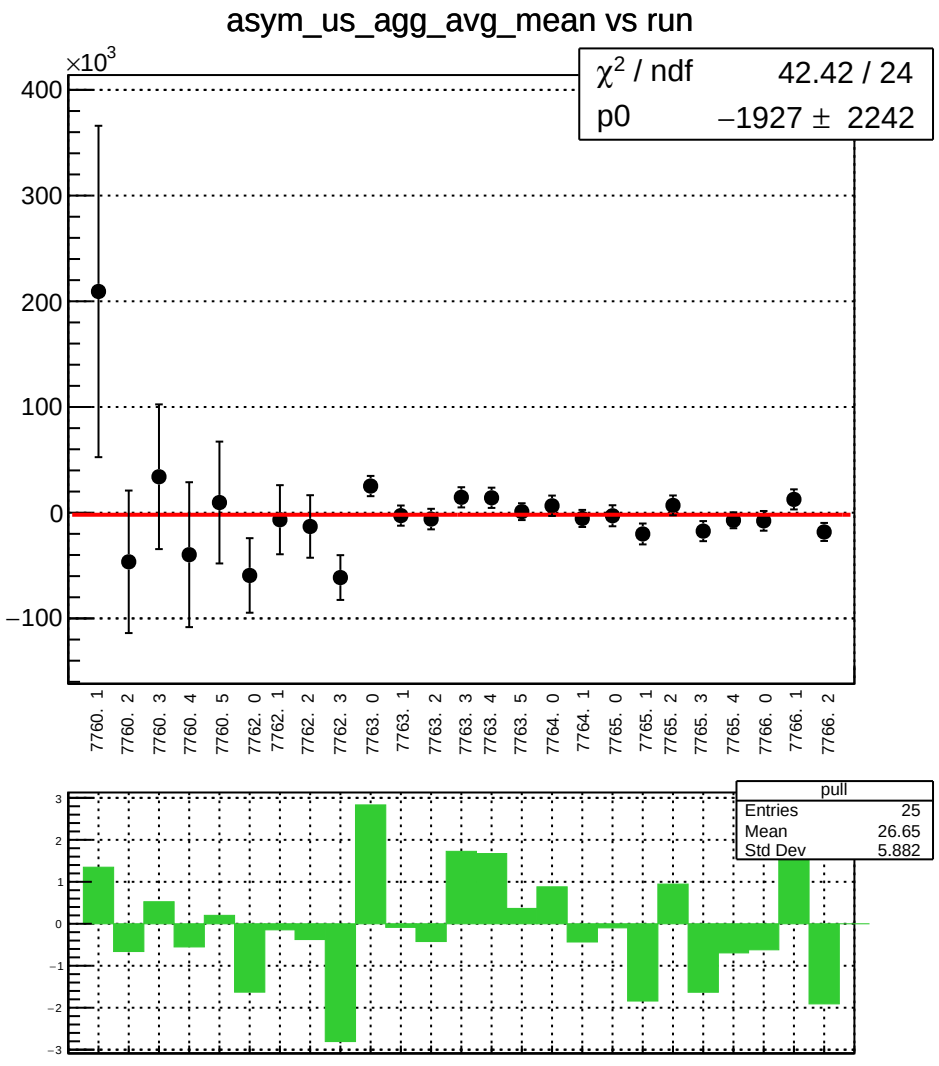

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

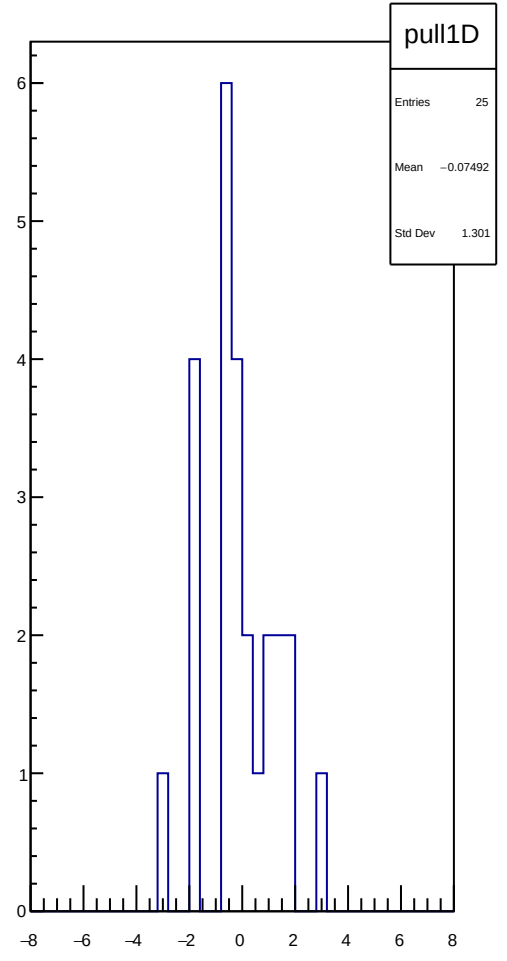

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

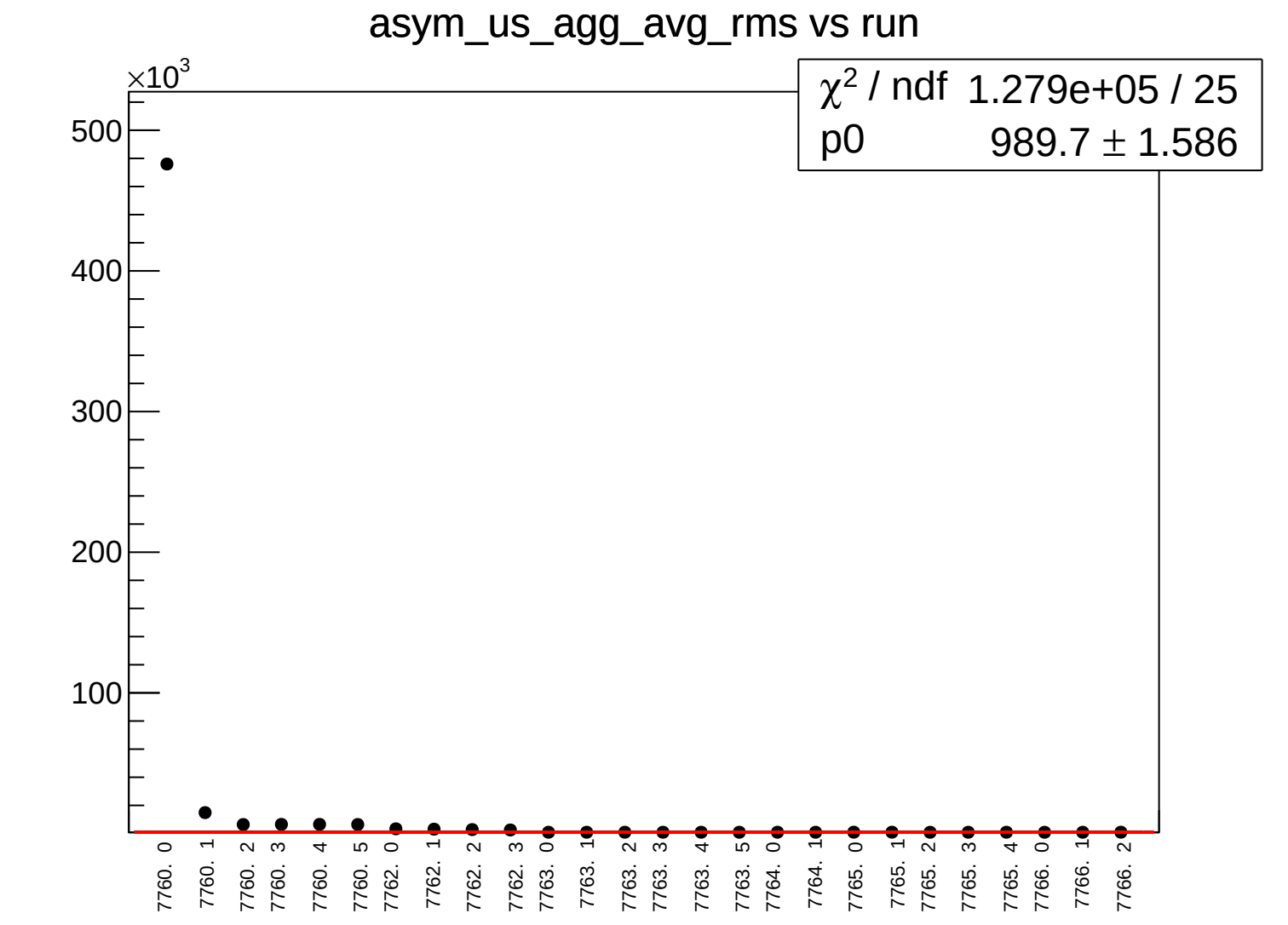

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

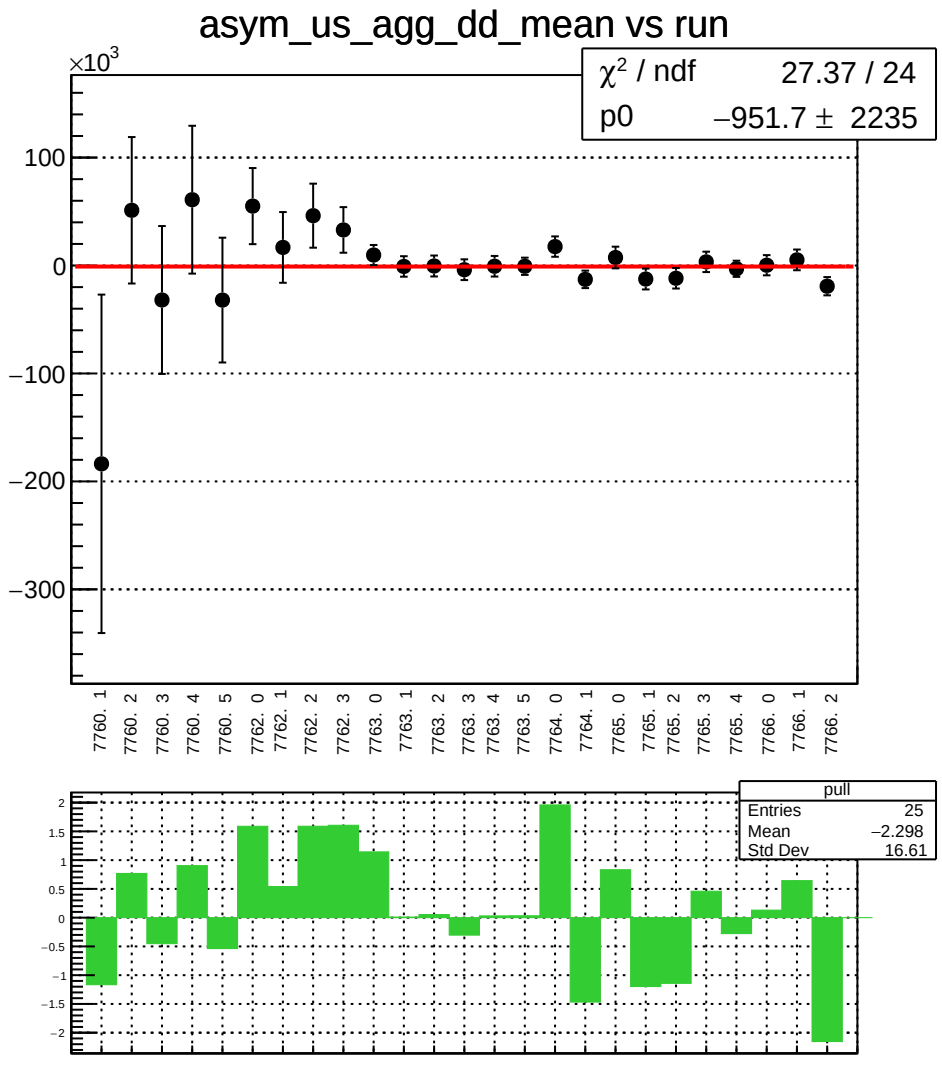

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

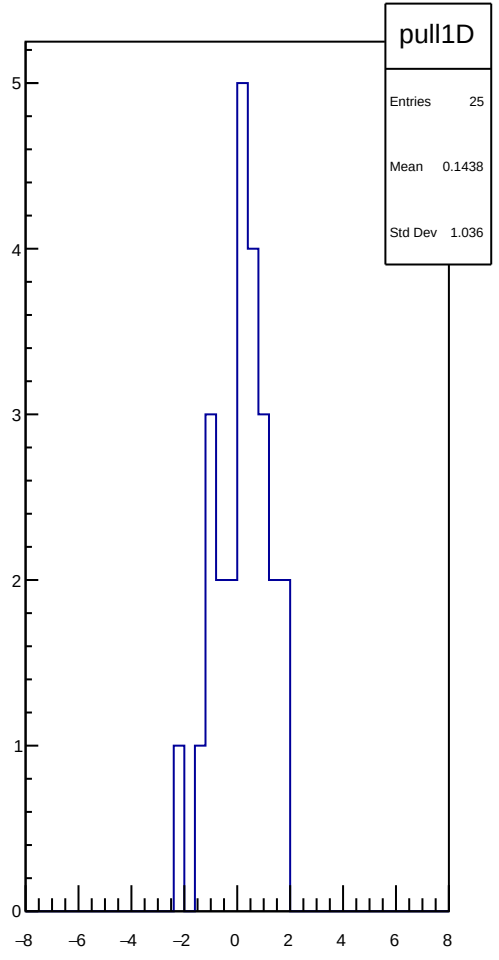

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

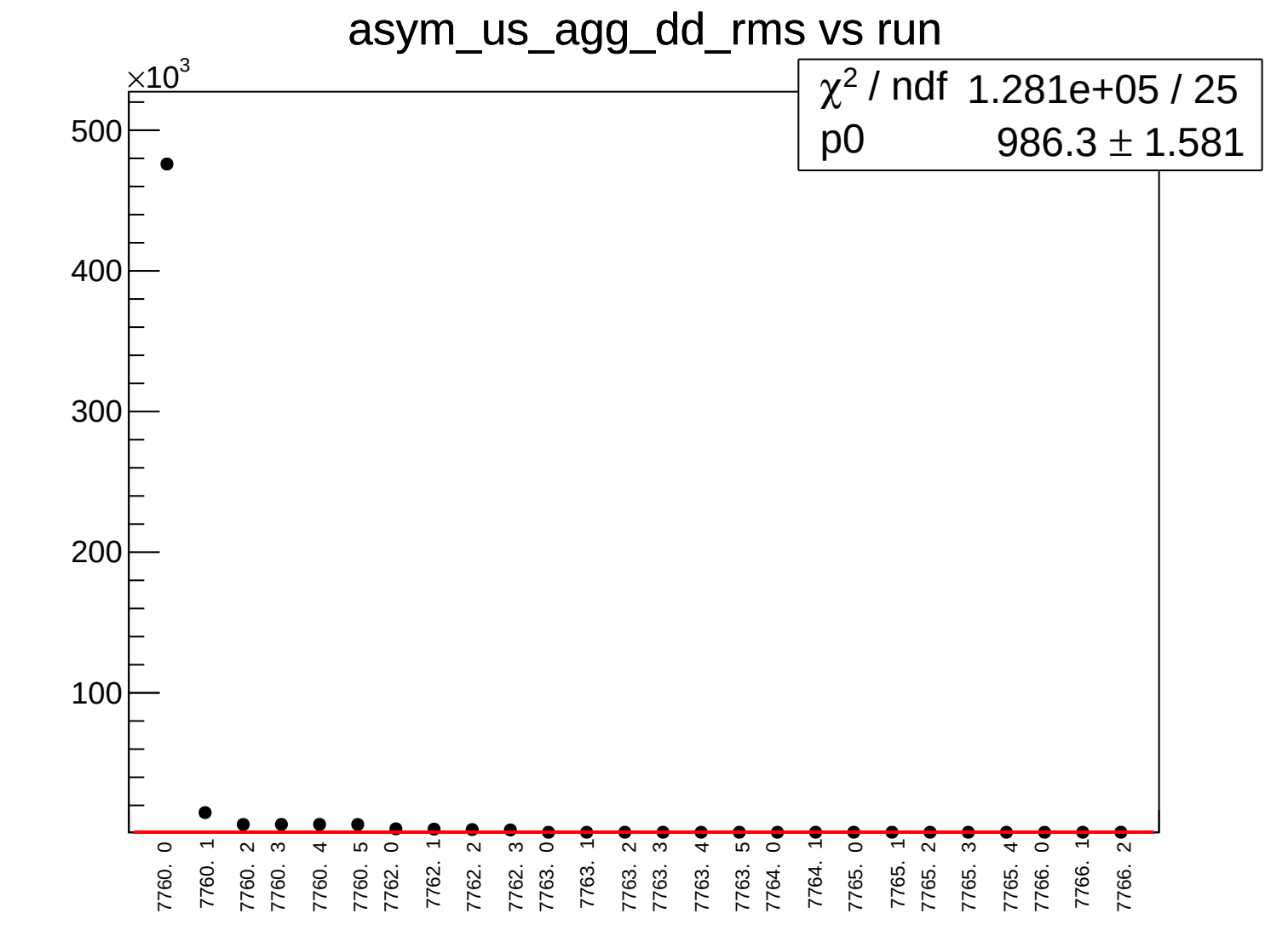

asym_us_agg_avg_mean vs run
×10^3
400
300
200
100
0
−100
χ² / ndf 42.42 / 24
p0 −1927 ± 2242
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 26.65
Std Dev 5.882
3
2
1
0
−1
−2
−3

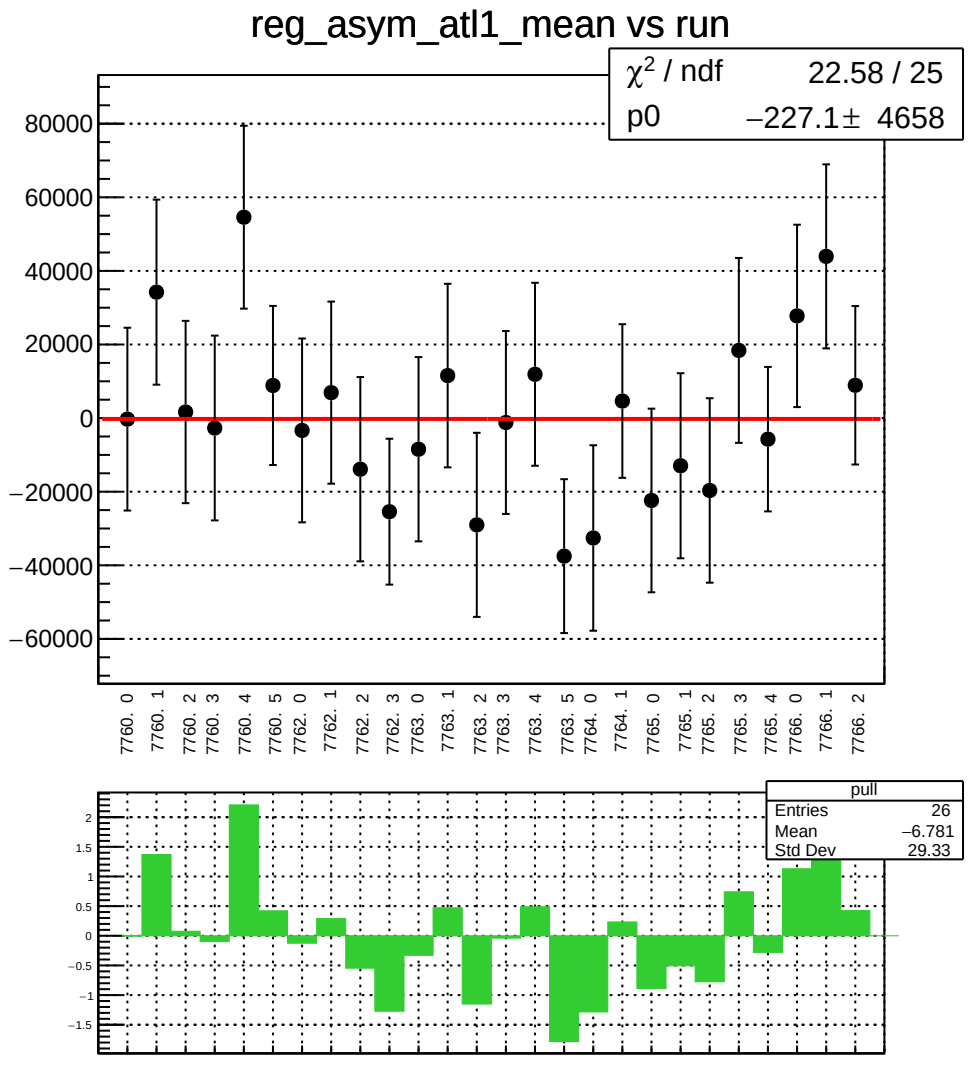

pull1D
Entries 25
Mean −0.07492
Std Dev 1.301
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

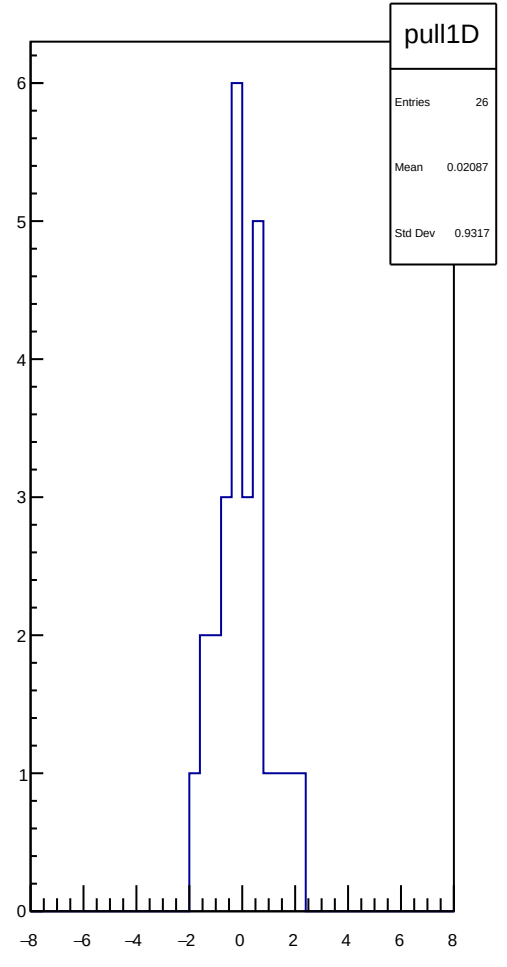

asym_us_agg_avg_rms vs run
×10^3
500
400
300
200
100
χ² / ndf 1.279e+05 / 25
p0 989.7 ± 1.586
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

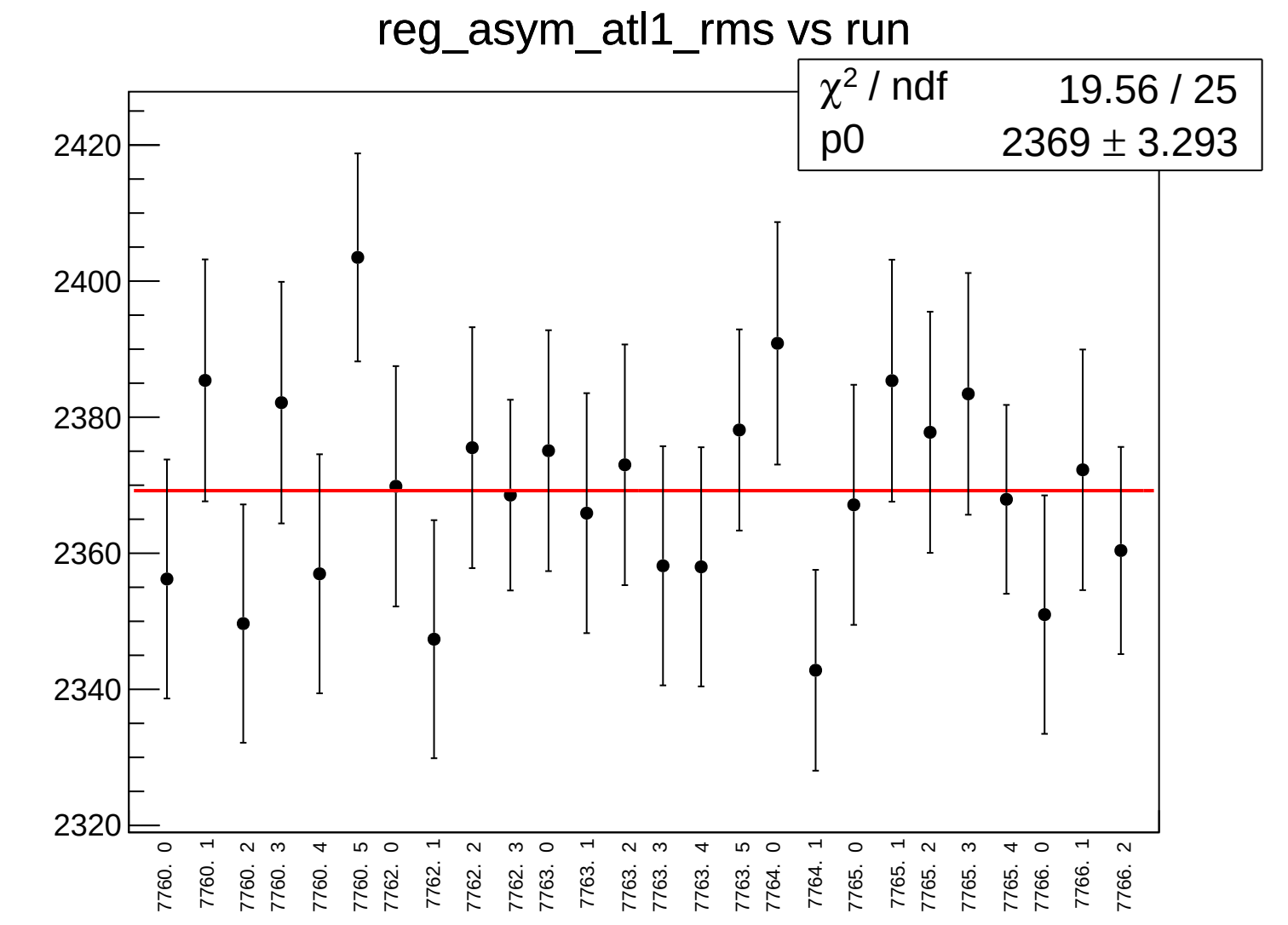

asym_us_agg_dd_mean vs run
×10^3
χ² / ndf 27.37 / 24
p0 −951.7 ± 2235
100
0
−100
−200
−300
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −2.298
Std Dev 16.61
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

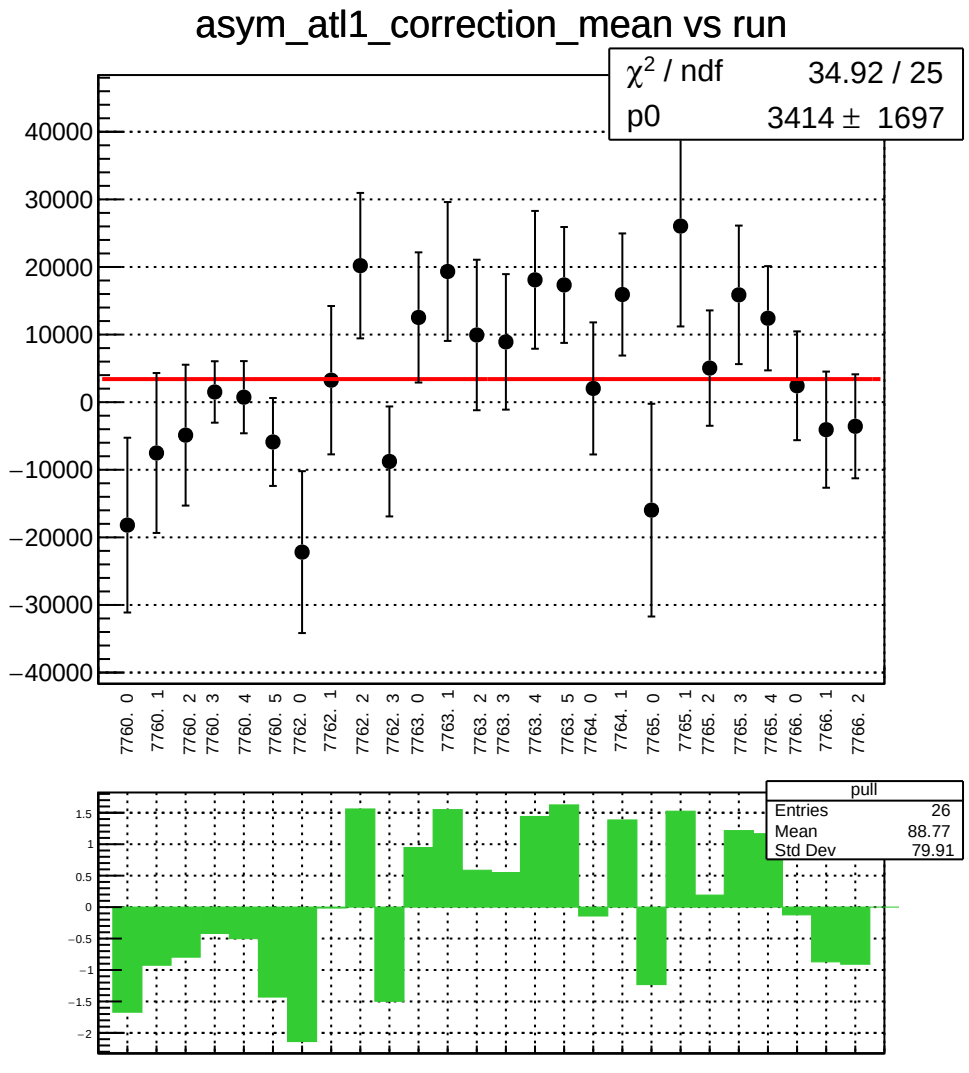

pull1D
Entries 25
Mean 0.1438
Std Dev 1.036
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

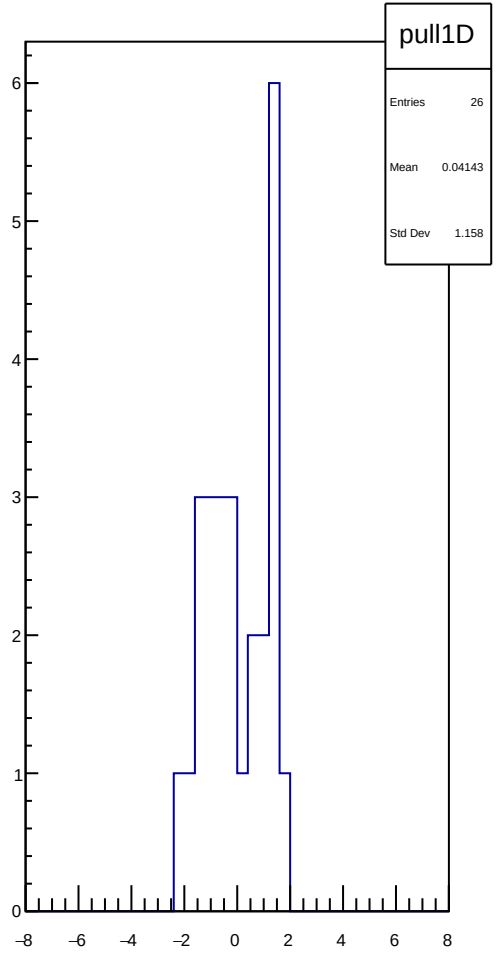

asym_us_agg_dd_rms vs run
×10^3
500
400
300
200
100
χ² / ndf 1.281e+05 / 25
p0 986.3 ± 1.581
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

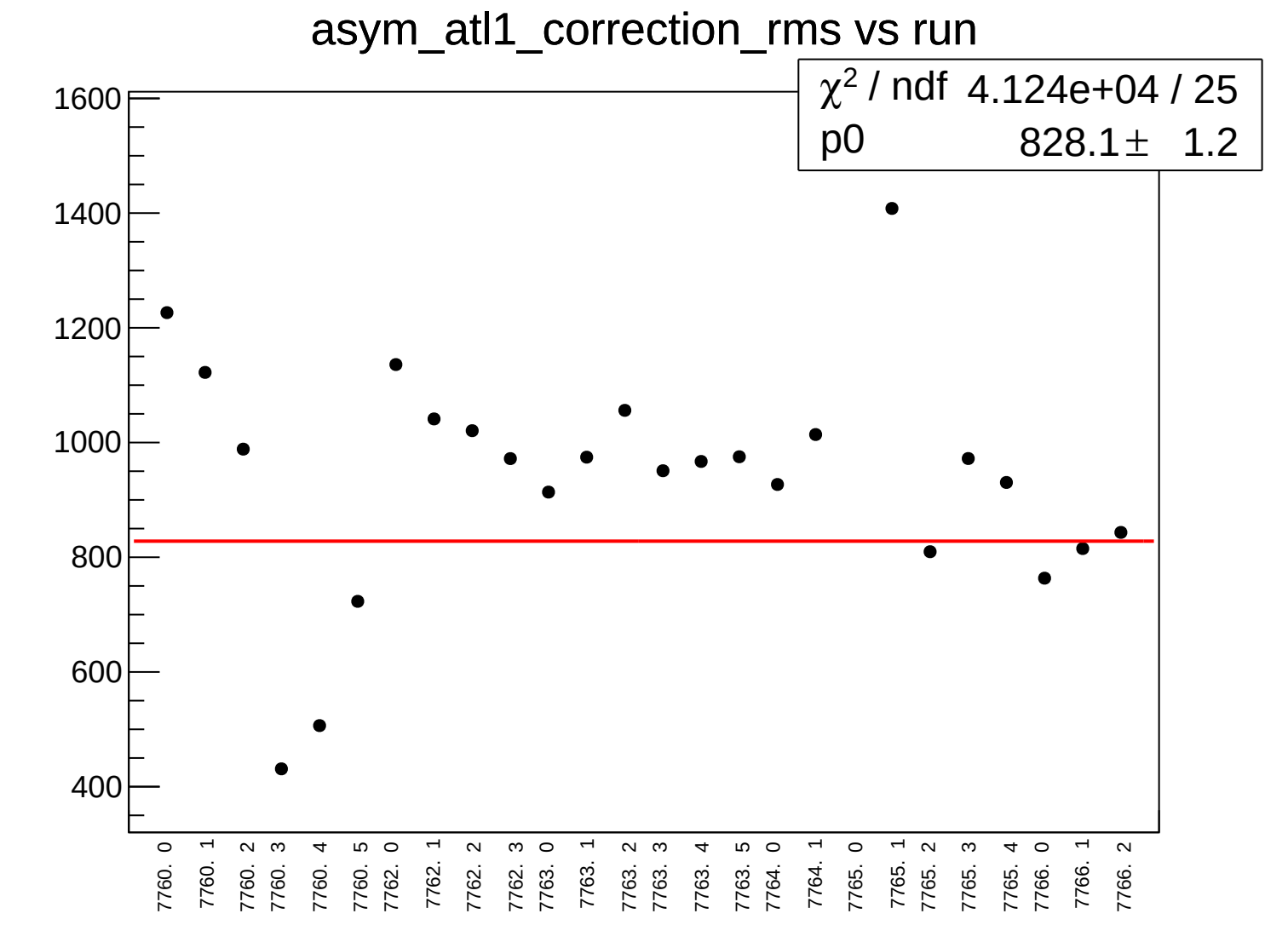

reg_asym_atl1_mean vs run
χ² / ndf 22.58 / 25
p0 −227.1± 4658
80000
60000
40000
20000
0
−20000
−40000
−60000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −6.781
Std Dev 29.33
2
1.5
1
0.5
0
−0.5
−1
−1.5

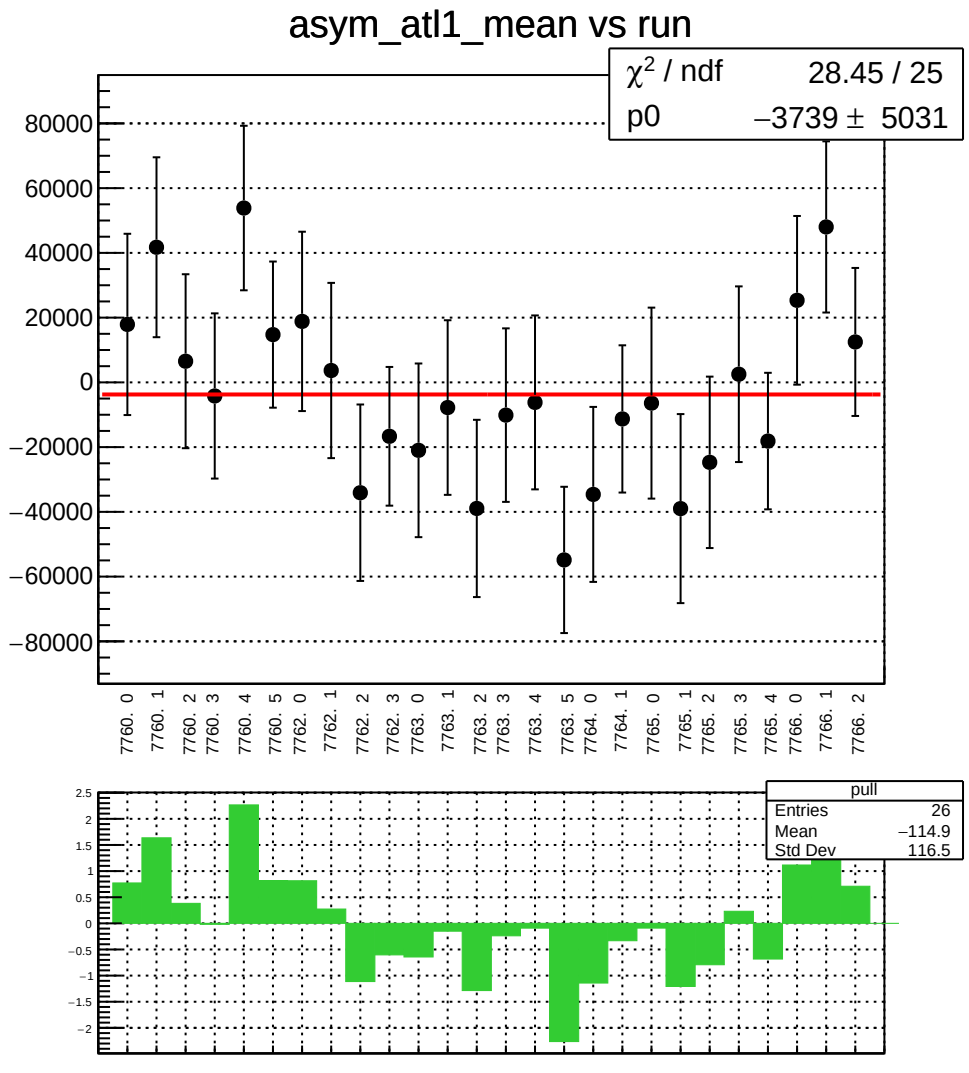

pull1D
Entries 26
Mean 0.02087
Std Dev 0.9317
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

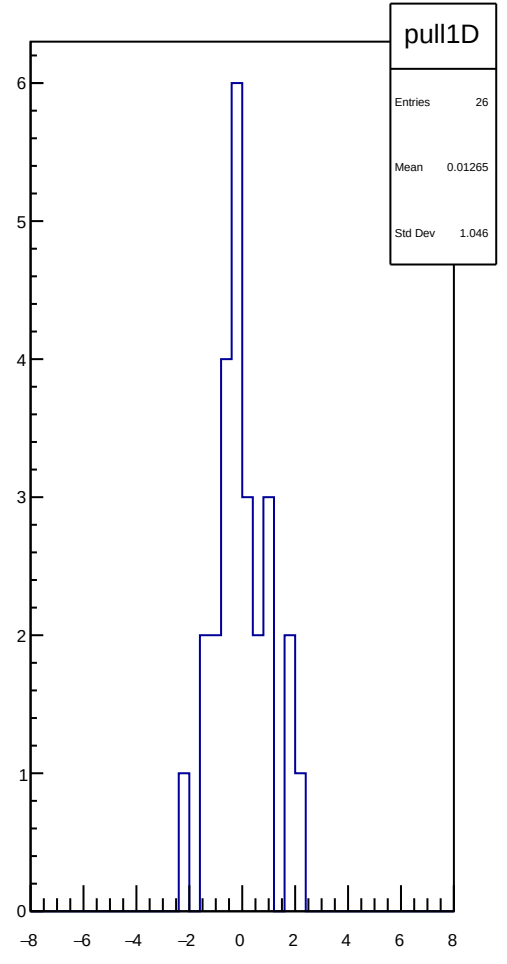

reg_asym_atl1_rms vs run
χ² / ndf 19.56 / 25
p0 2369 ± 3.293
2420
2400
2380
2360
2340
2320
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

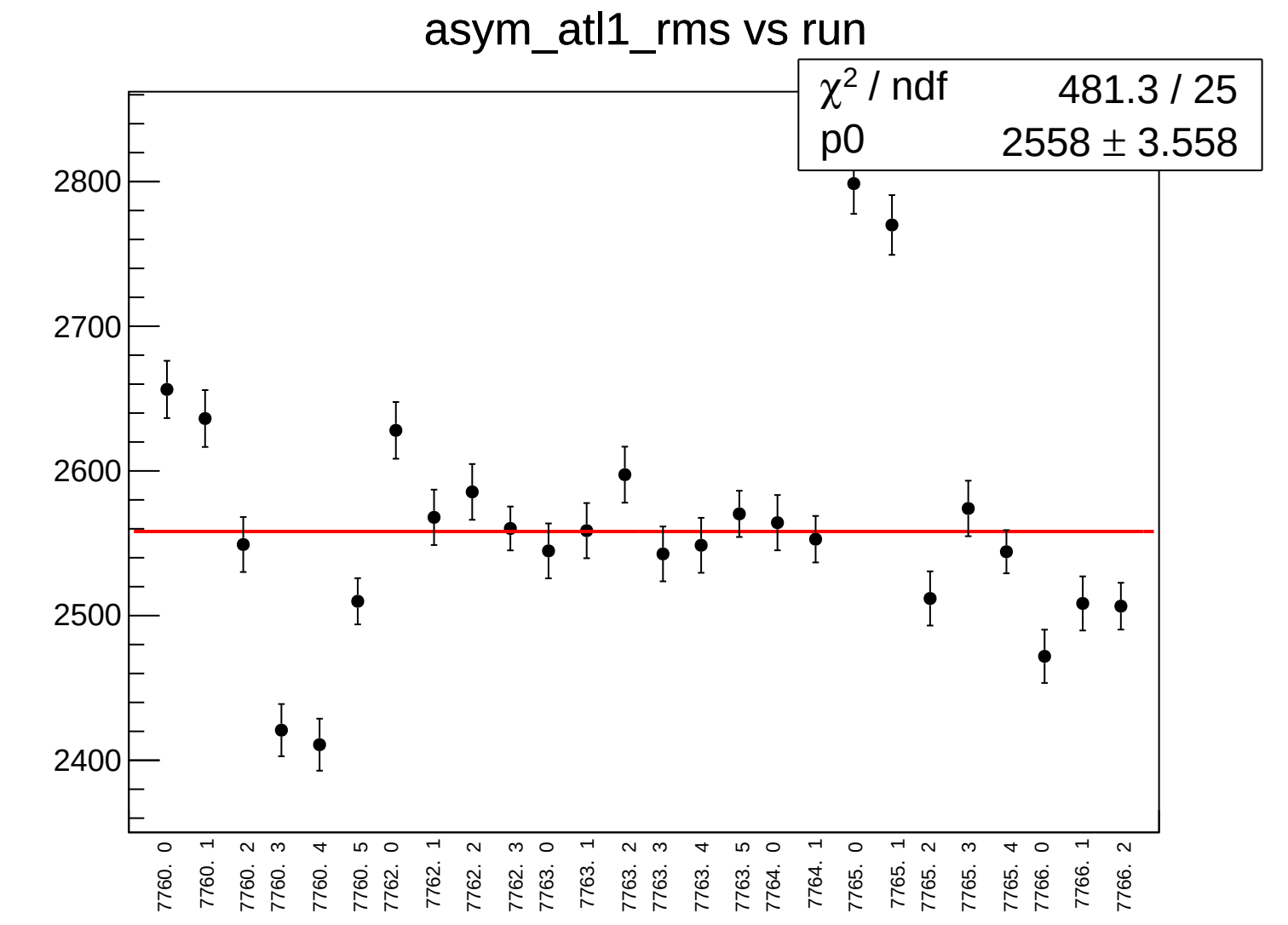

asym_atl1_correction_mean vs run
χ² / ndf 34.92 / 25
p0 3414 ± 1697
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 88.77
Std Dev 79.91
1.5
1
0.5
0
−0.5
−1
−1.5
−2

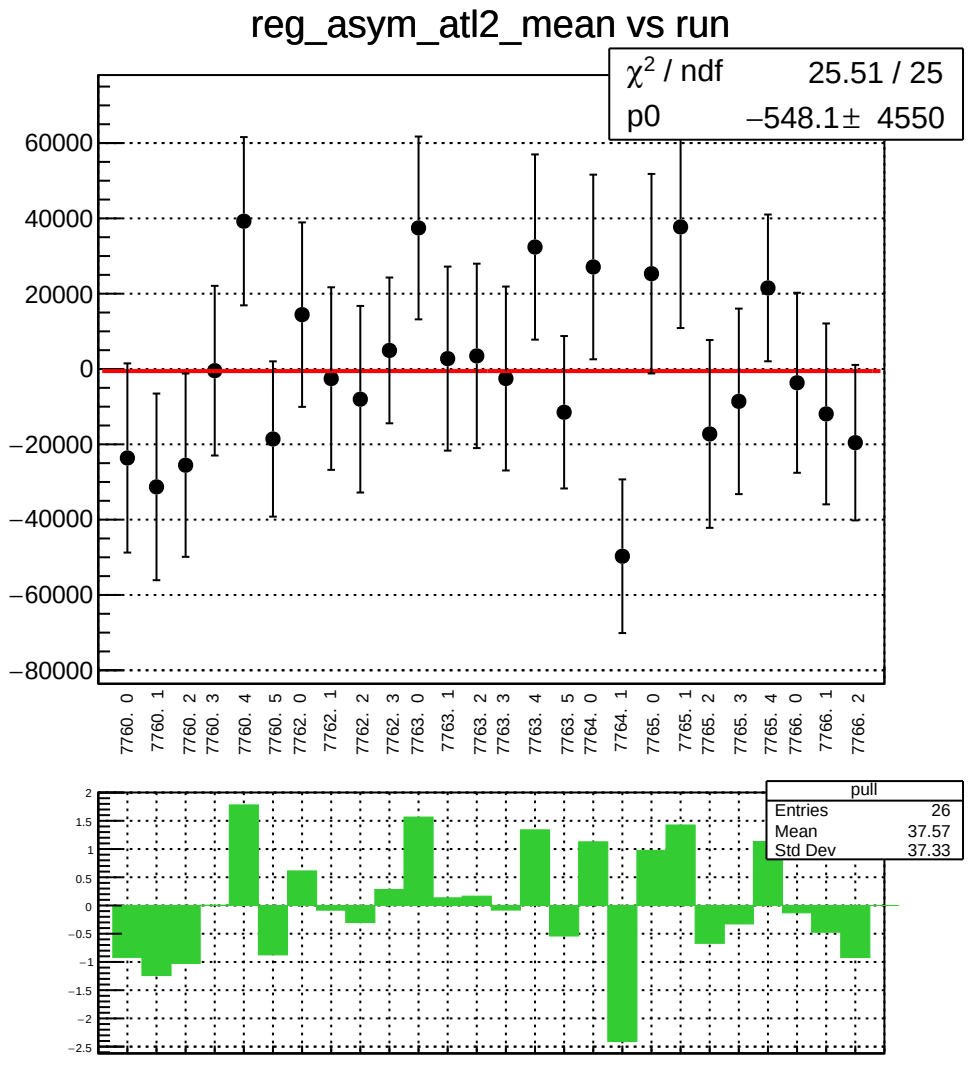

pull1D
Entries 26
Mean 0.04143
Std Dev 1.158
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

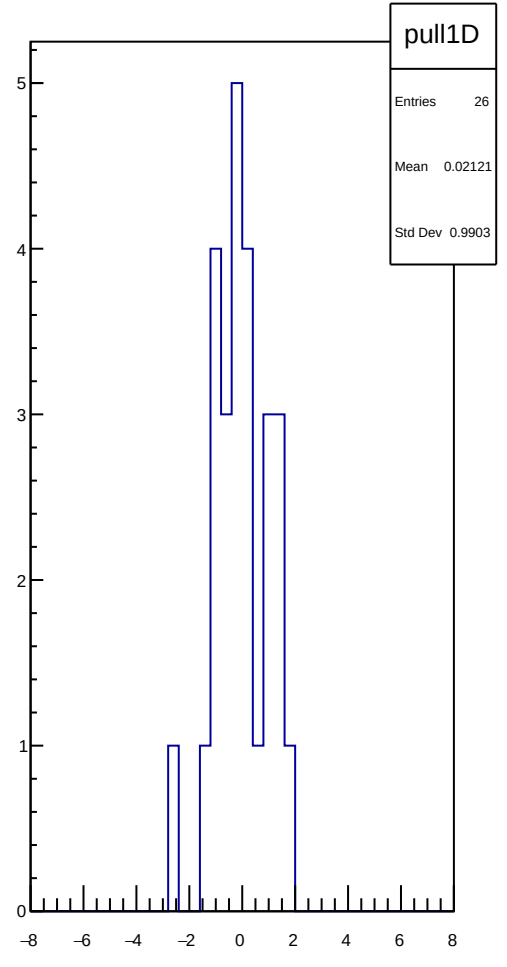

asym_atl1_correction_rms vs run
χ² / ndf 4.124e+04 / 25
p0 828.1 ± 1.2
1600
1400
1200
1000
800
600
400
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

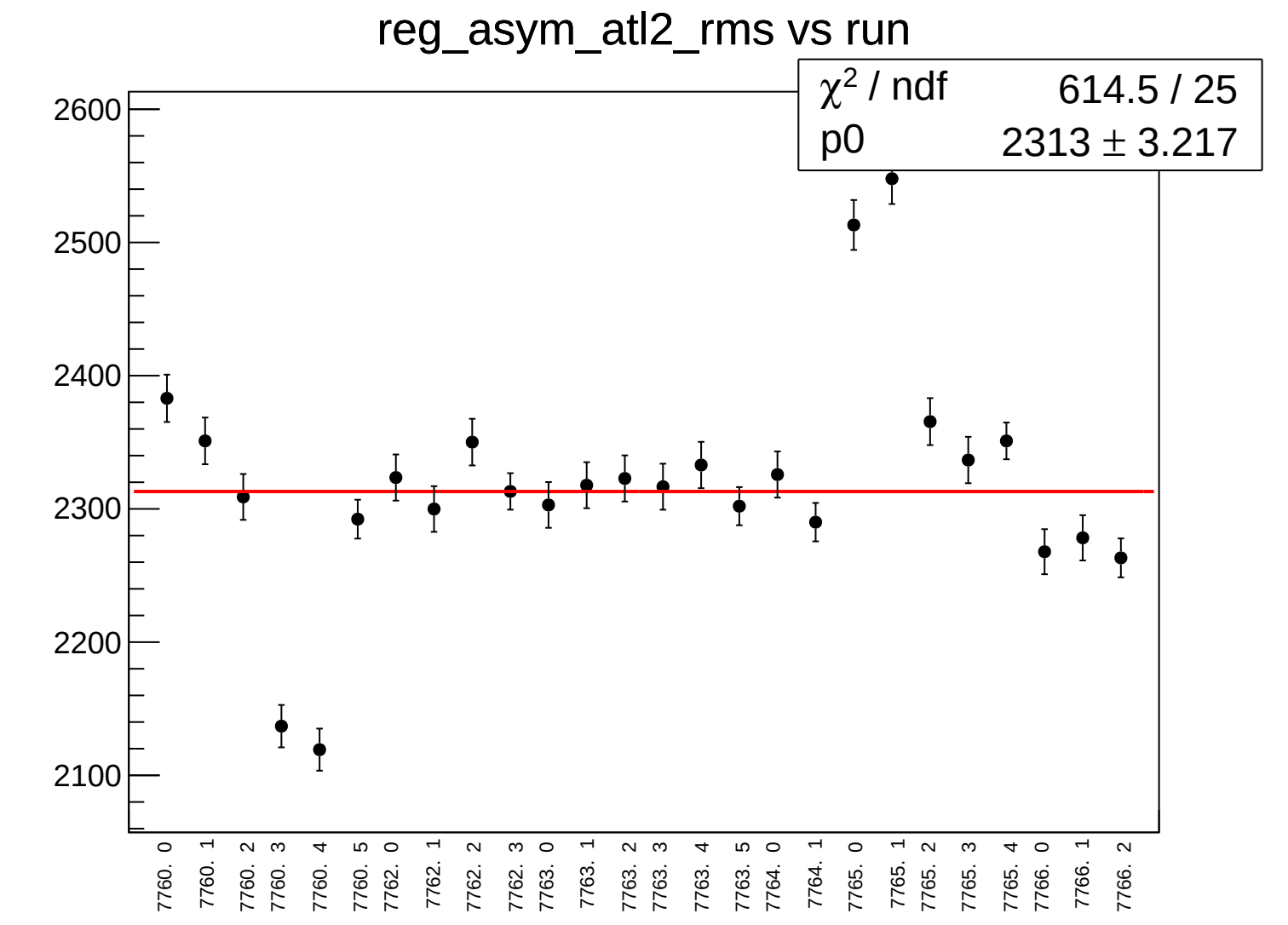

asym_atl1_mean vs run
χ² / ndf 28.45 / 25
p0 −3739 ± 5031
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −114.9
Std Dev 116.5
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

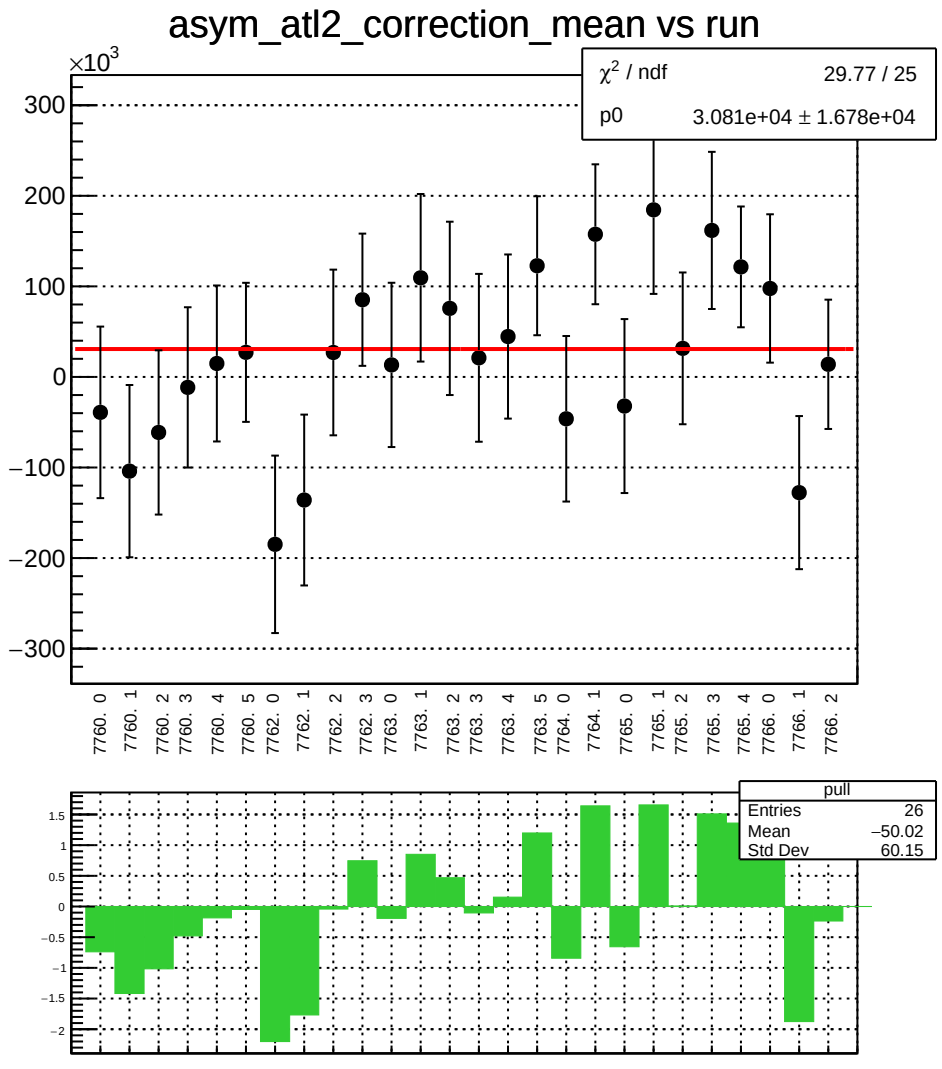

pull1D
Entries 26
Mean 0.01265
Std Dev 1.046
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

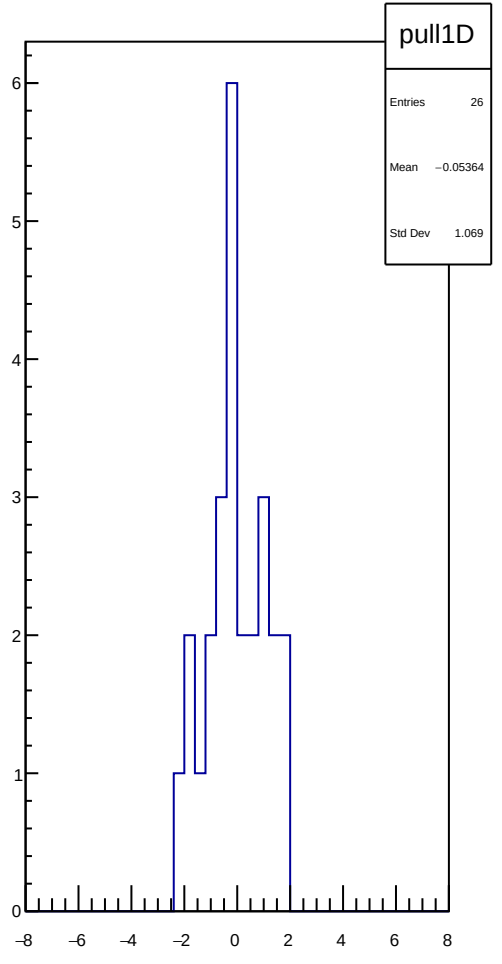

asym_atl1_rms vs run
χ² / ndf 481.3 / 25
p0 2558 ± 3.558
2800
2700
2600
2500
2400
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

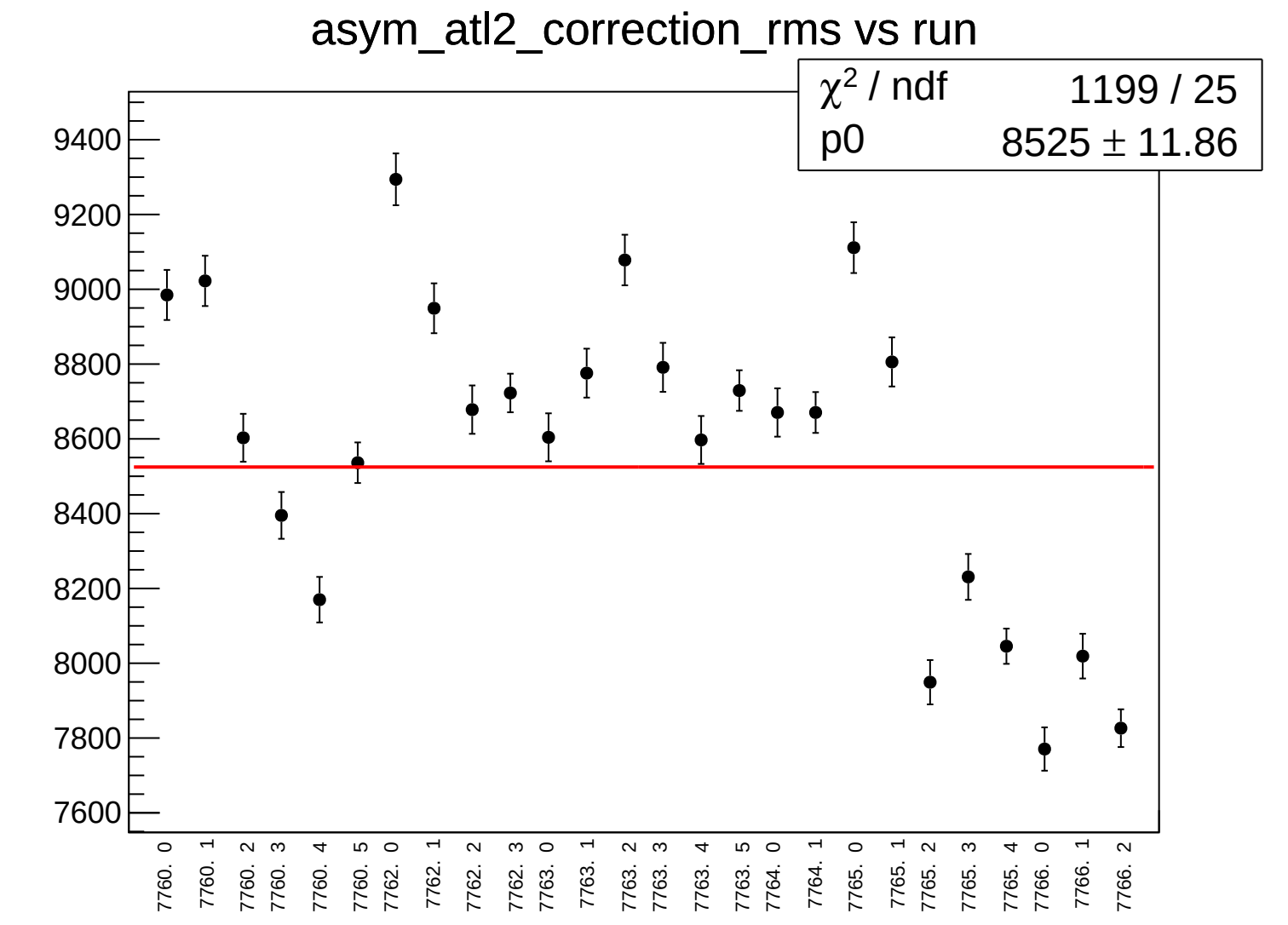

reg_asym_atl2_mean vs run
χ² / ndf 25.51 / 25
p0 −548.1± 4550
60000
40000
20000
0
−20000
−40000
−60000
−80000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 37.57
Std Dev 37.33
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

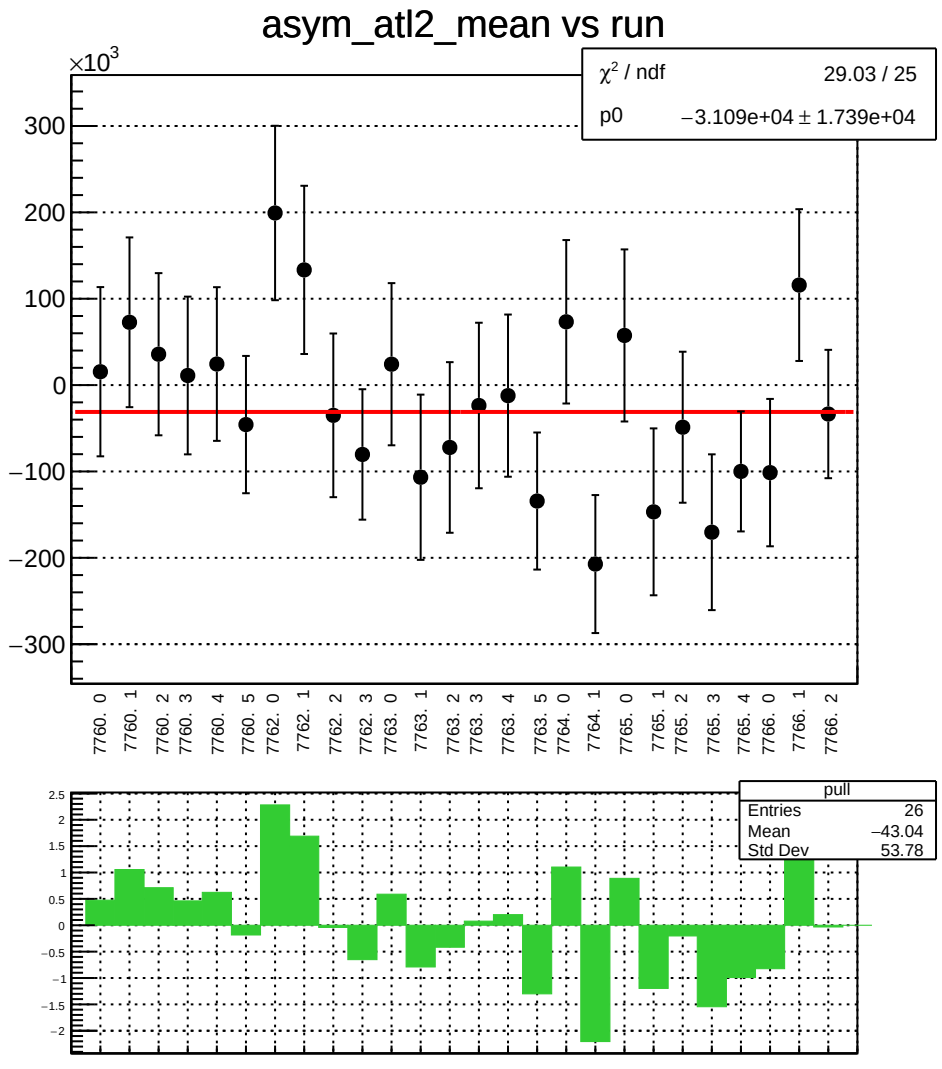

pull1D
Entries 26
Mean 0.02121
Std Dev 0.9903
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

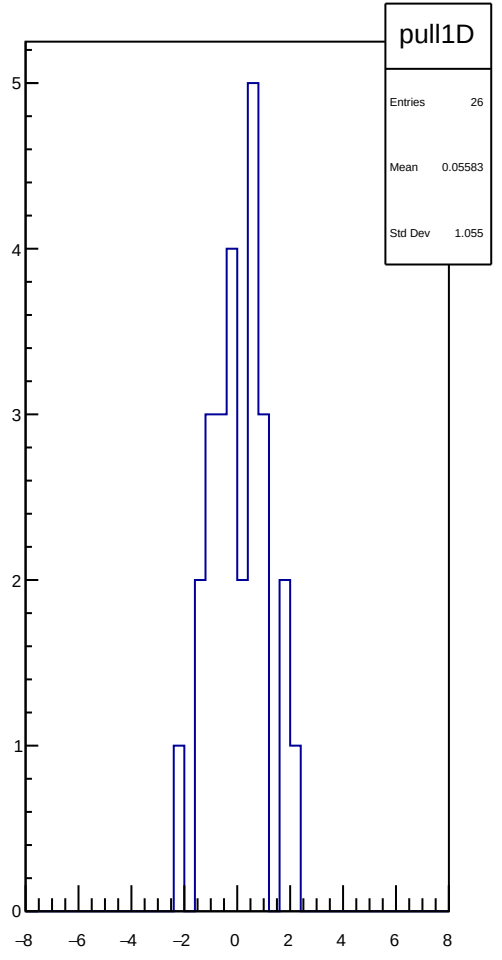

reg_asym_atl2_rms vs run
χ² / ndf 614.5 / 25
p0 2313 ± 3.217
2600
2500
2400
2300
2200
2100
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

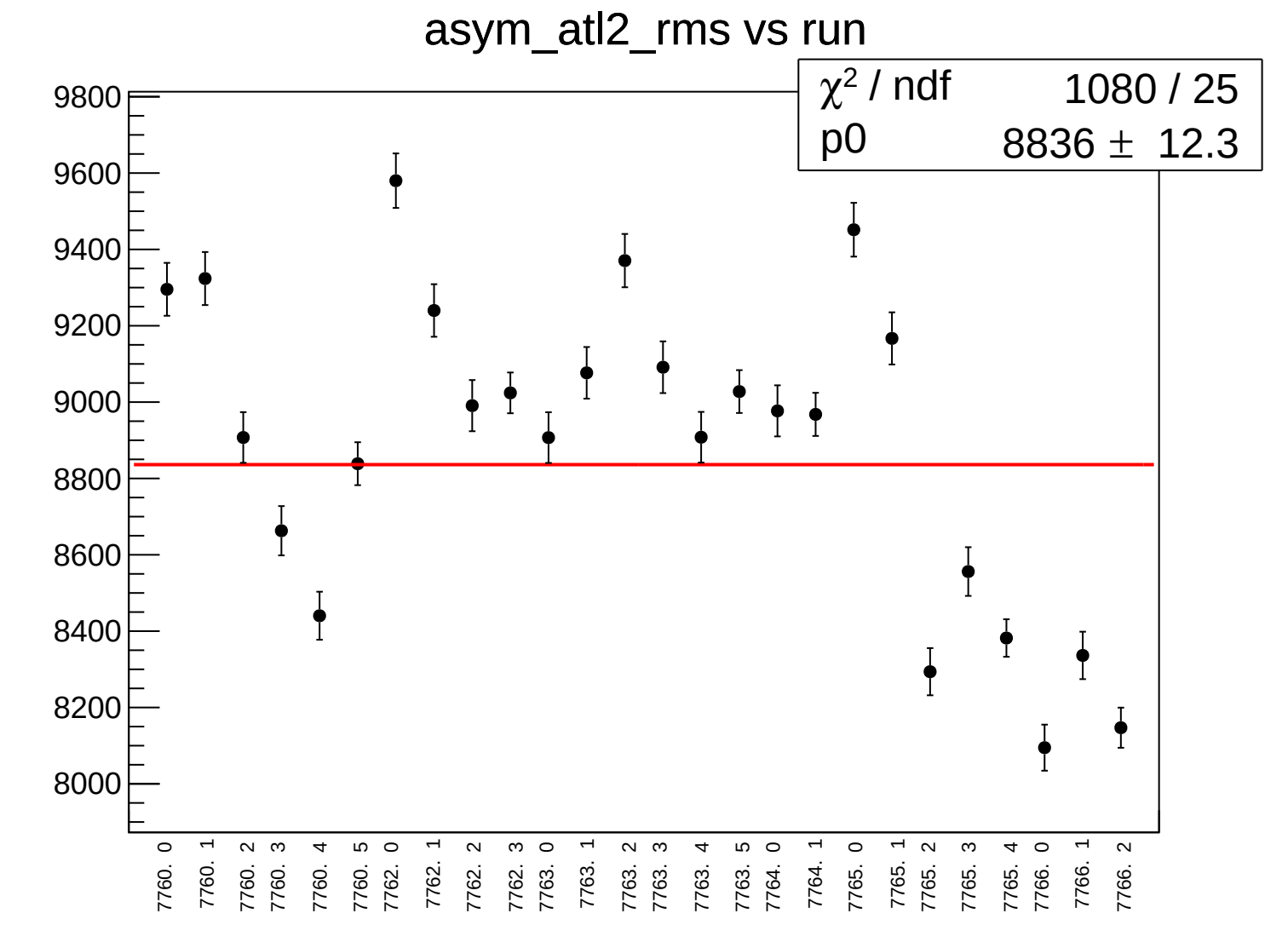

asym_atl2_correction_mean vs run
×10^3
χ² / ndf 29.77 / 25
p0 3.081e+04 ± 1.678e+04
300
200
100
0
−100
−200
−300
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −50.02
Std Dev 60.15
1.5
1
0.5
0
−0.5
−1
−1.5
−2

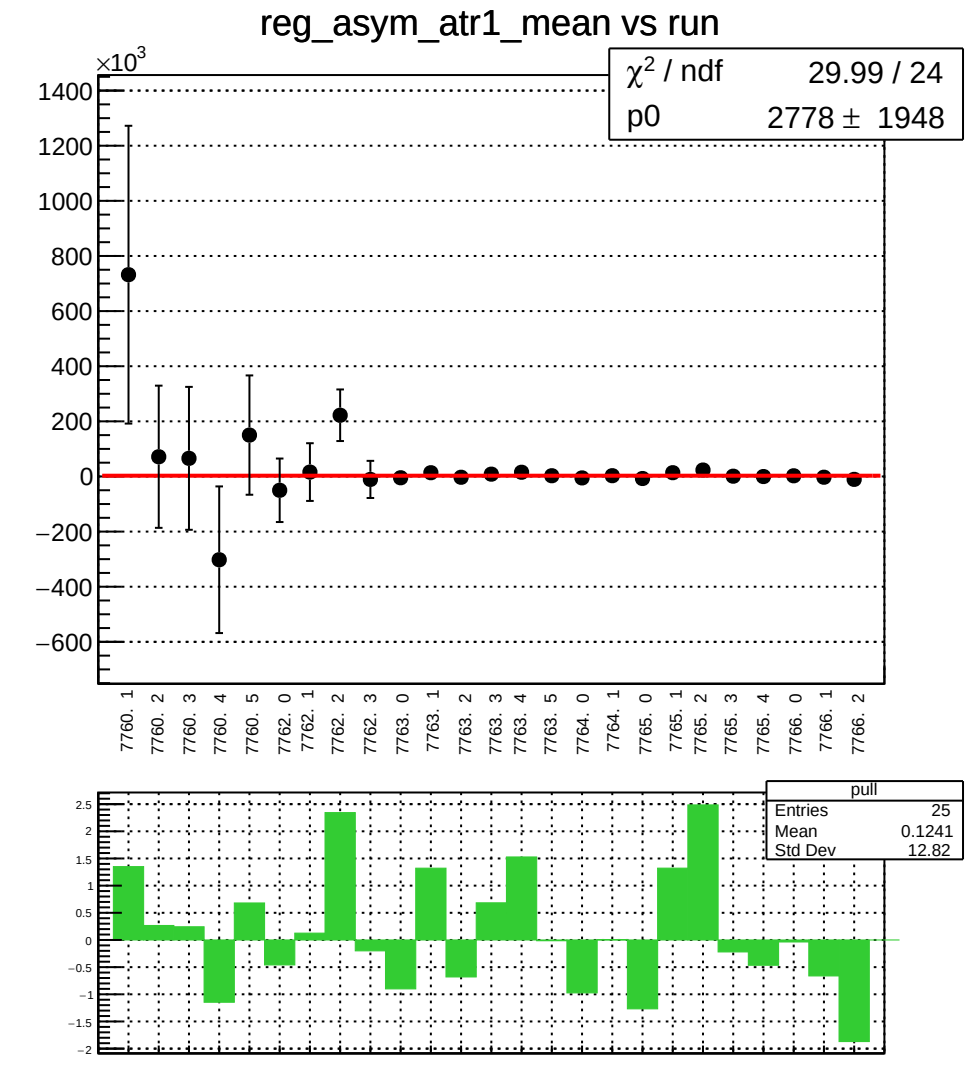

pull1D
Entries 26
Mean −0.05364
Std Dev 1.069
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

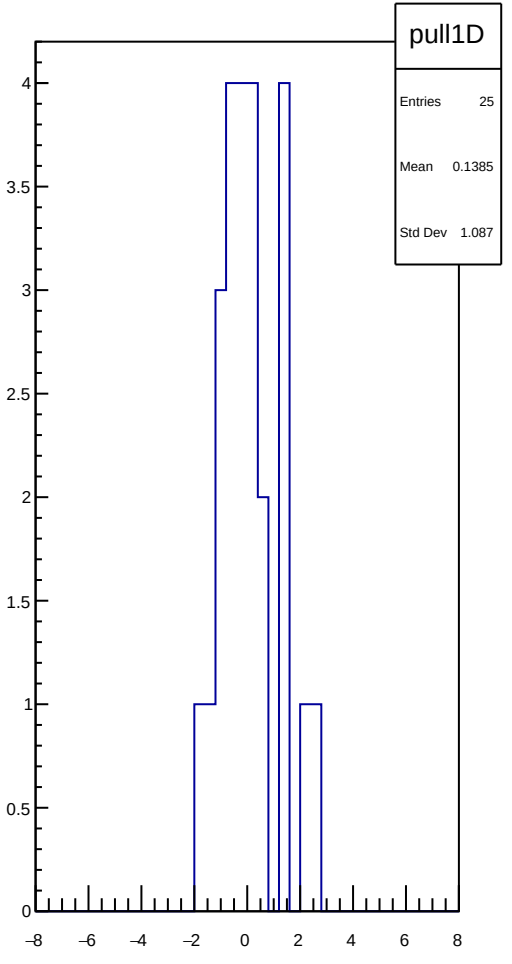

asym_atl2_correction_rms vs run
χ² / ndf 1199 / 25
p0 8525 ± 11.86
9400
9200
9000
8800
8600
8400
8200
8000
7800
7600
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

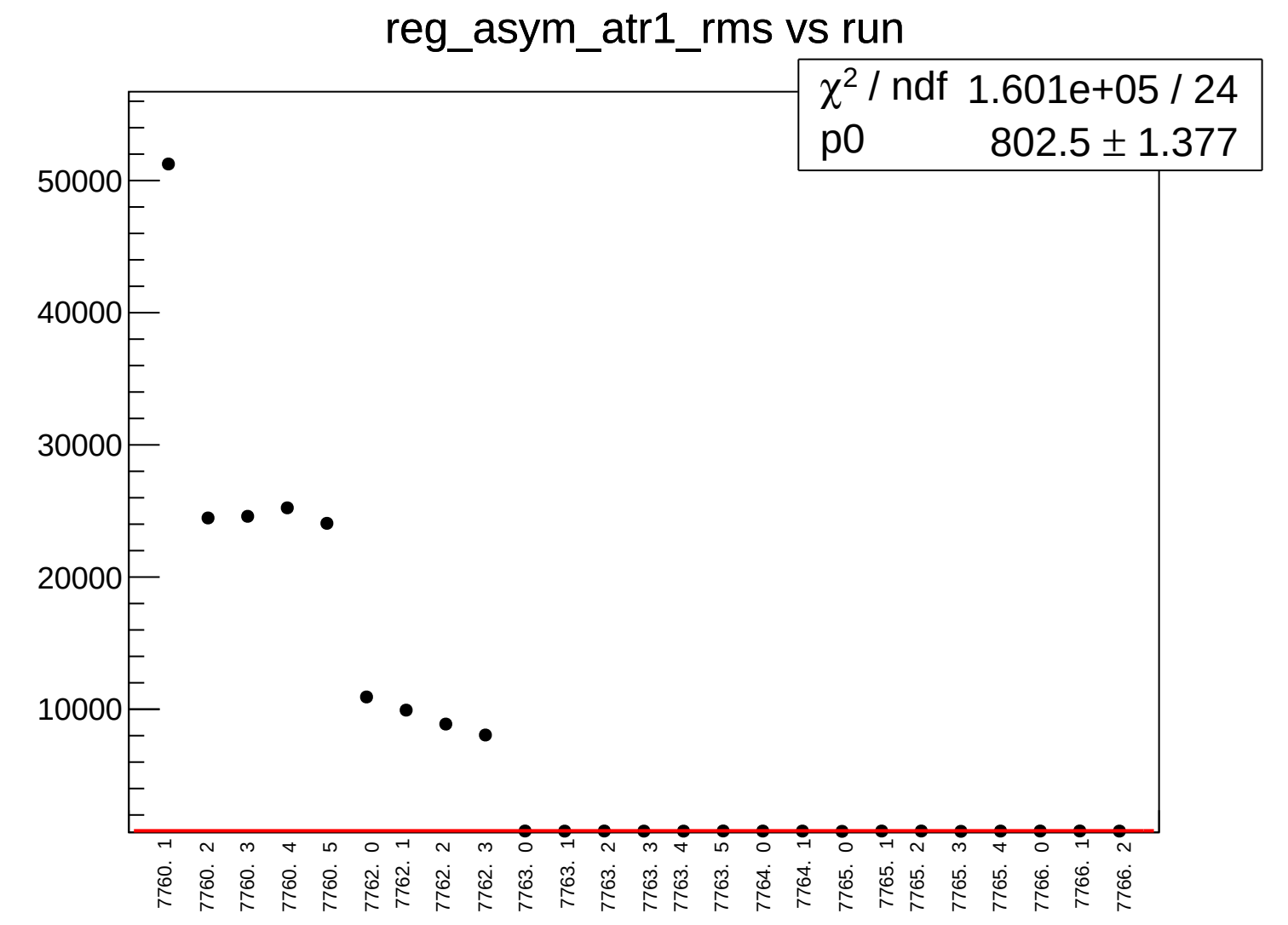

asym_atl2_mean vs run
×10^3
χ² / ndf 29.03 / 25
p0 −3.109e+04 ± 1.739e+04
300
200
100
0
−100
−200
−300
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −43.04
Std Dev 53.78
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

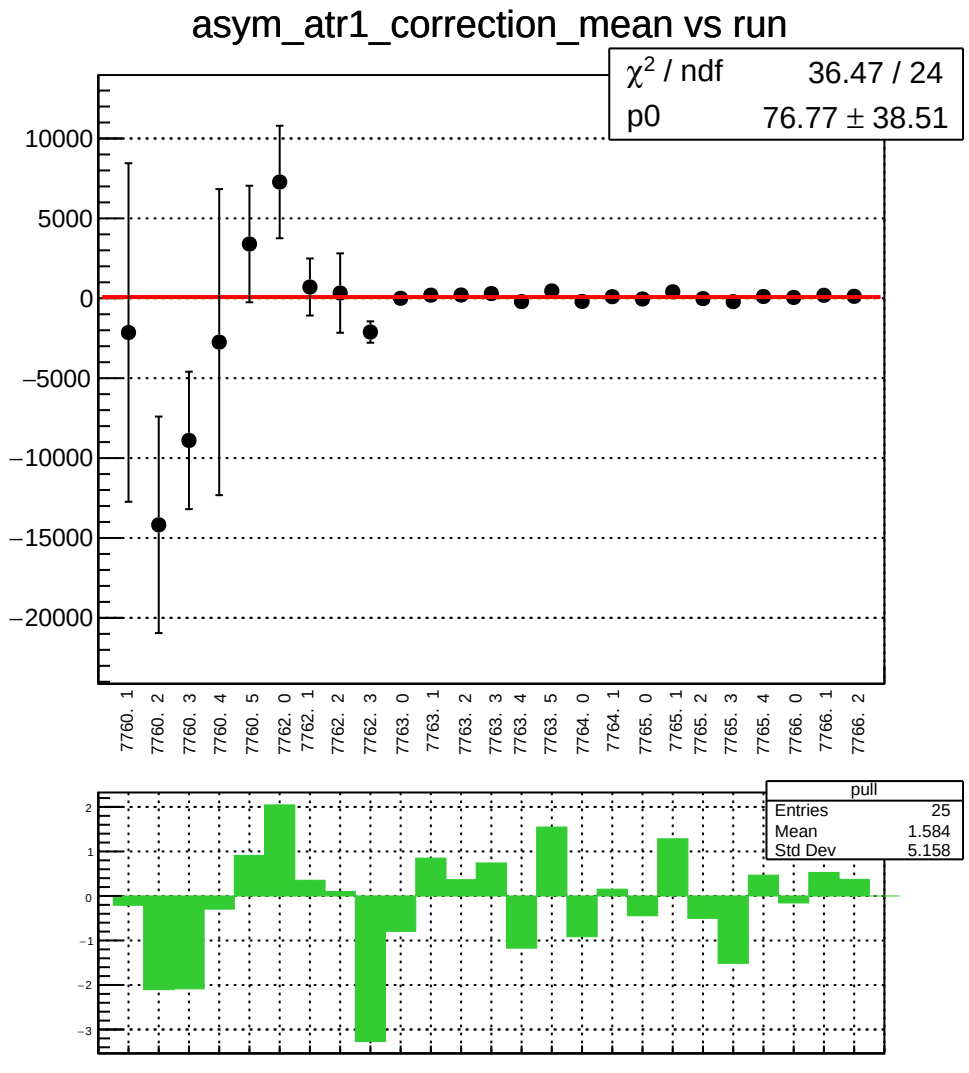

pull1D
Entries 26
Mean 0.05583
Std Dev 1.055
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

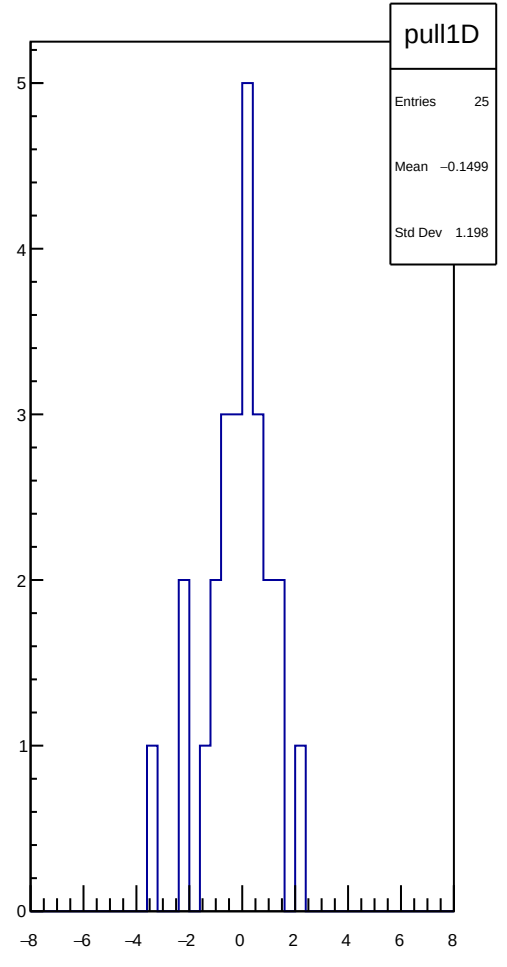

asym_atl2_rms vs run
χ² / ndf 1080 / 25
p0 8836 ± 12.3
9800
9600
9400
9200
9000
8800
8600
8400
8200
8000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

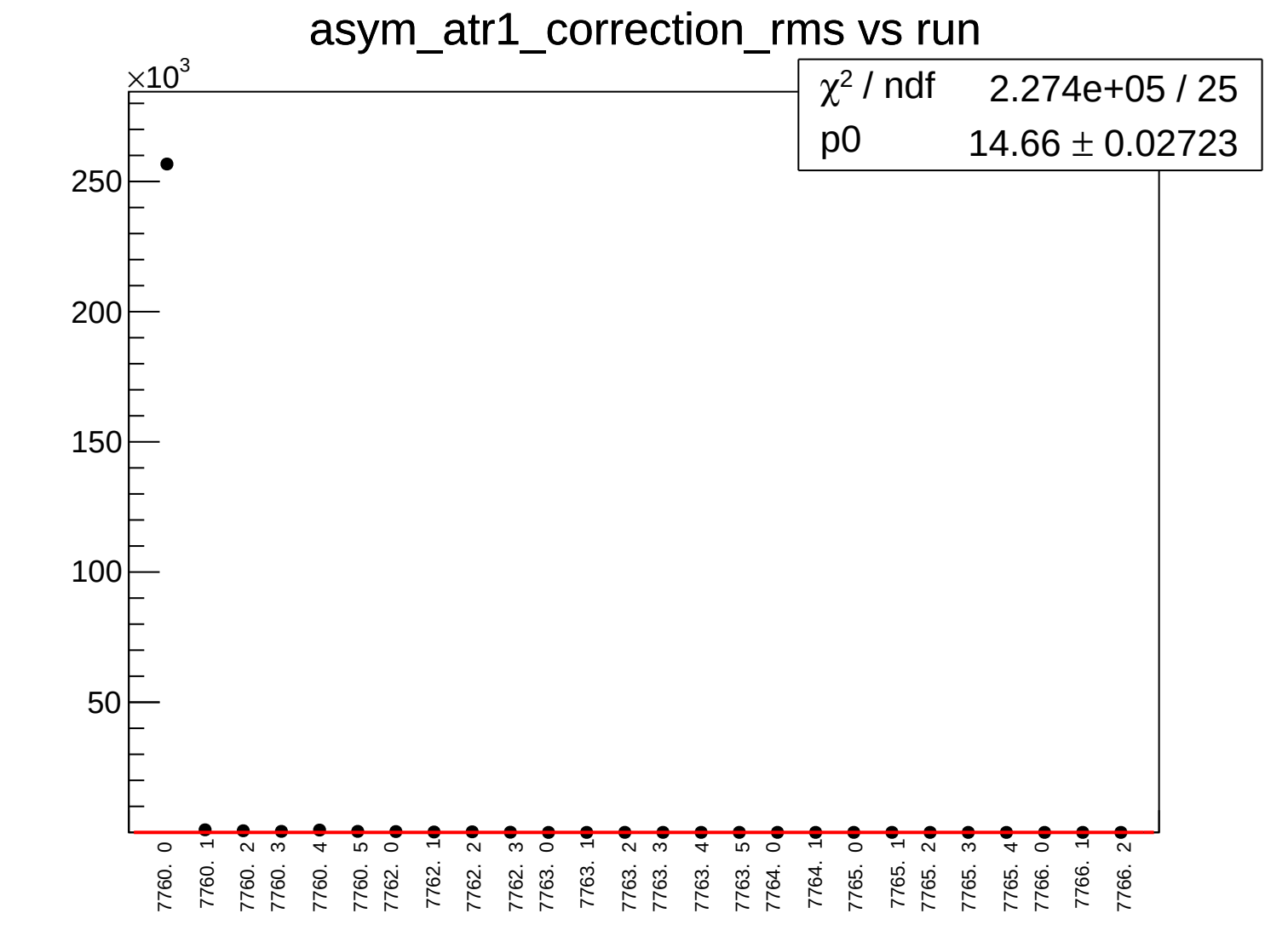

reg_asym_atr1_mean vs run
×10^3
χ^2 / ndf 29.99 / 24
p0 2778 ± 1948
1400
1200
1000
800
600
400
200
0
−200
−400
−600
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 0.1241
Std Dev 12.82
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

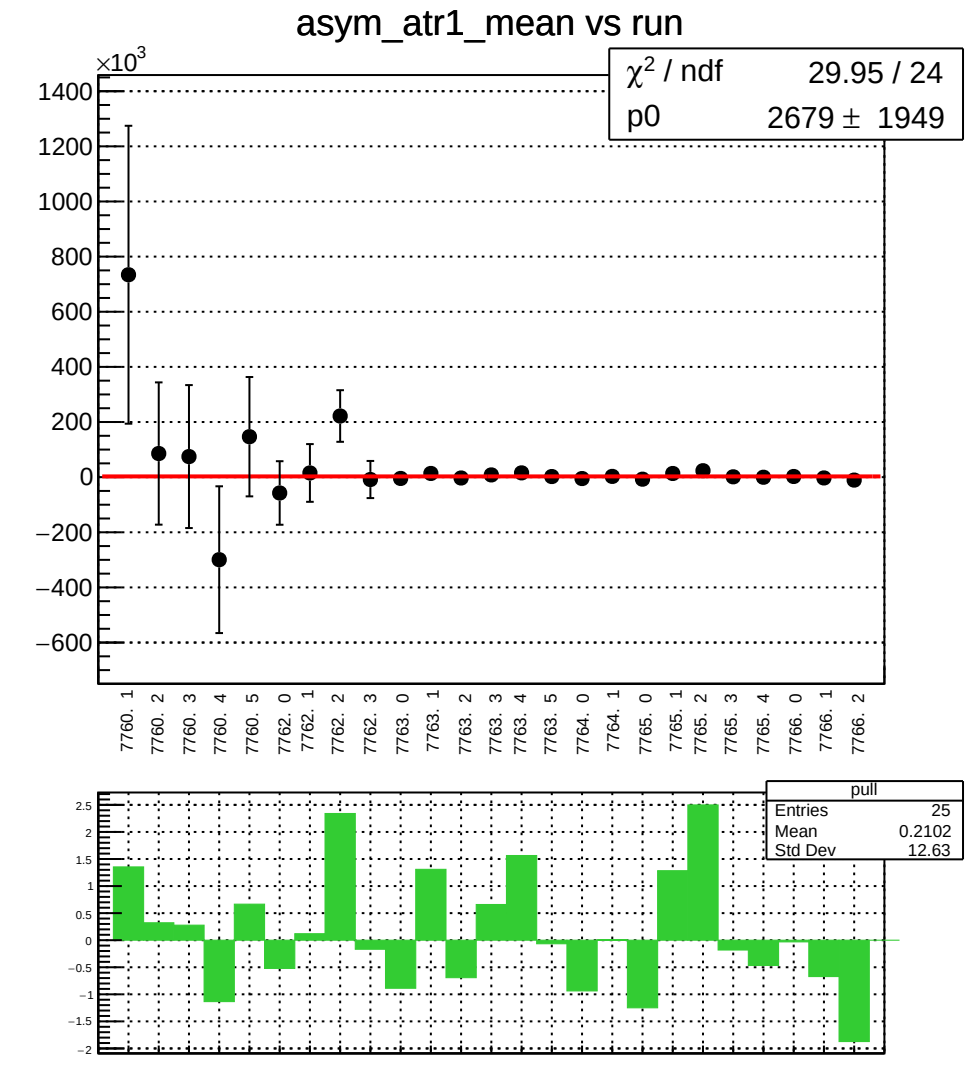

pull1D
Entries 25
Mean 0.1385
Std Dev 1.087
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

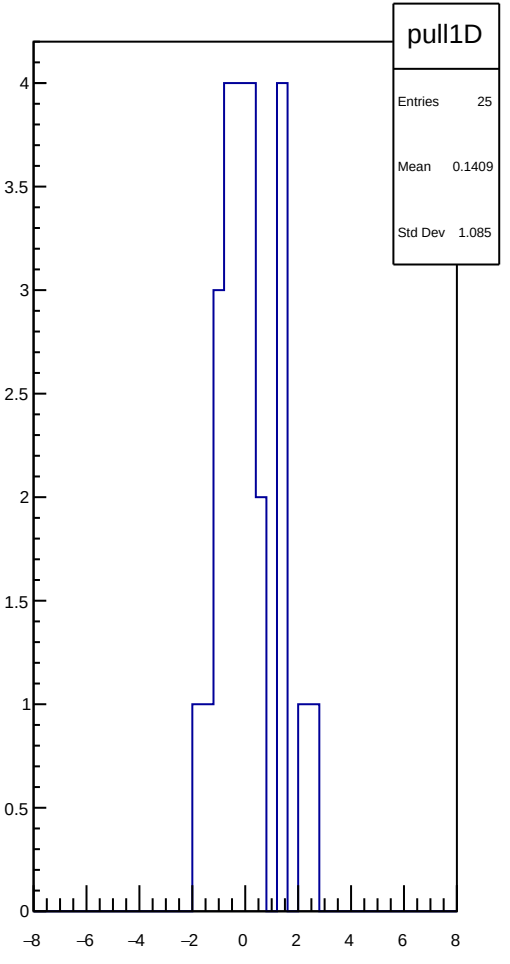

reg_asym_atr1_rms vs run
χ² / ndf 1.601e+05 / 24
p0 802.5 ± 1.377
50000
40000
30000
20000
10000
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

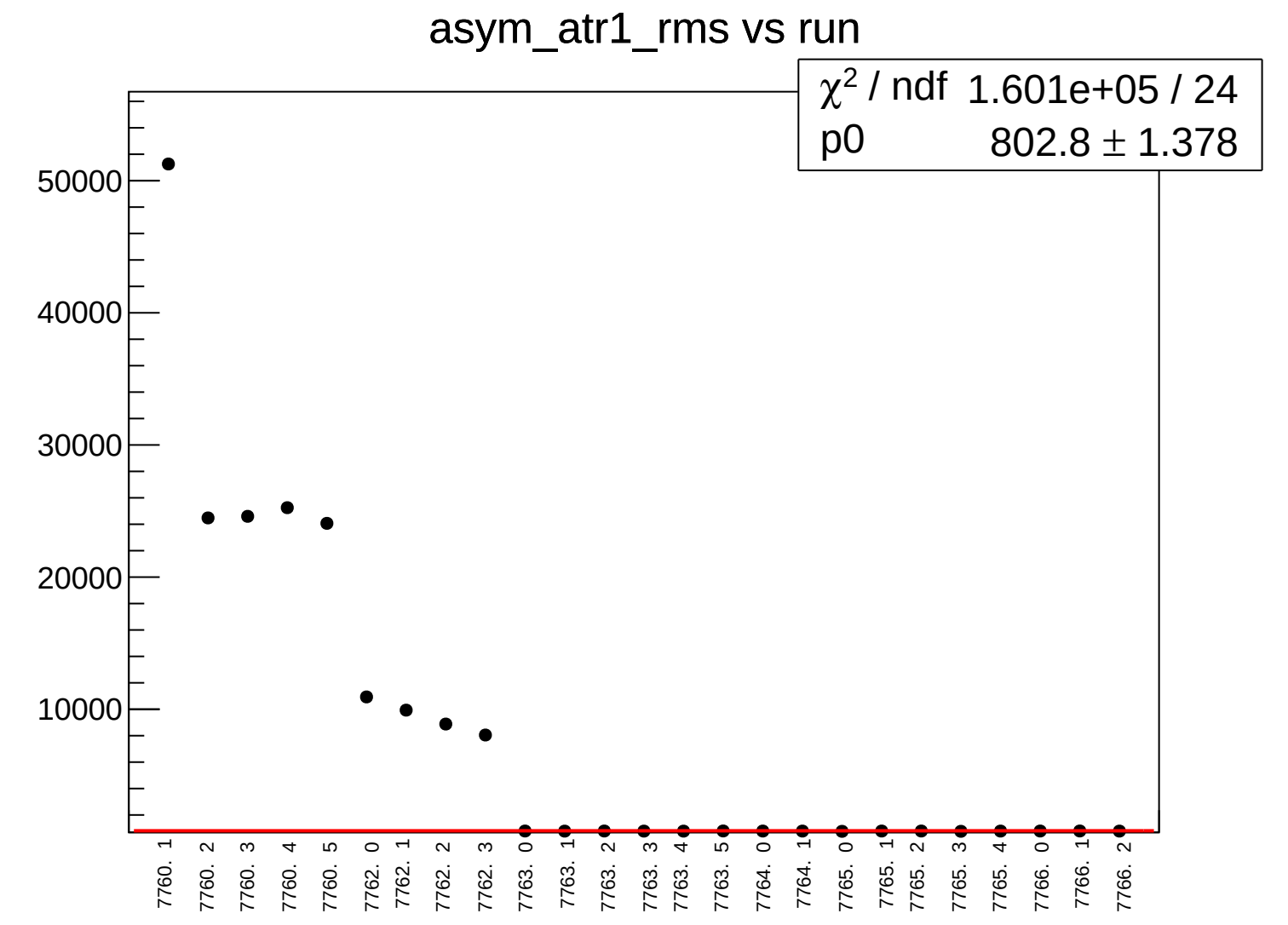

asym_atr1_correction_mean vs run
χ² / ndf 36.47 / 24
p0 76.77 ± 38.51
10000
5000
0
−5000
−10000
−15000
−20000
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 1.584
Std Dev 5.158
2
1
0
−1
−2
−3

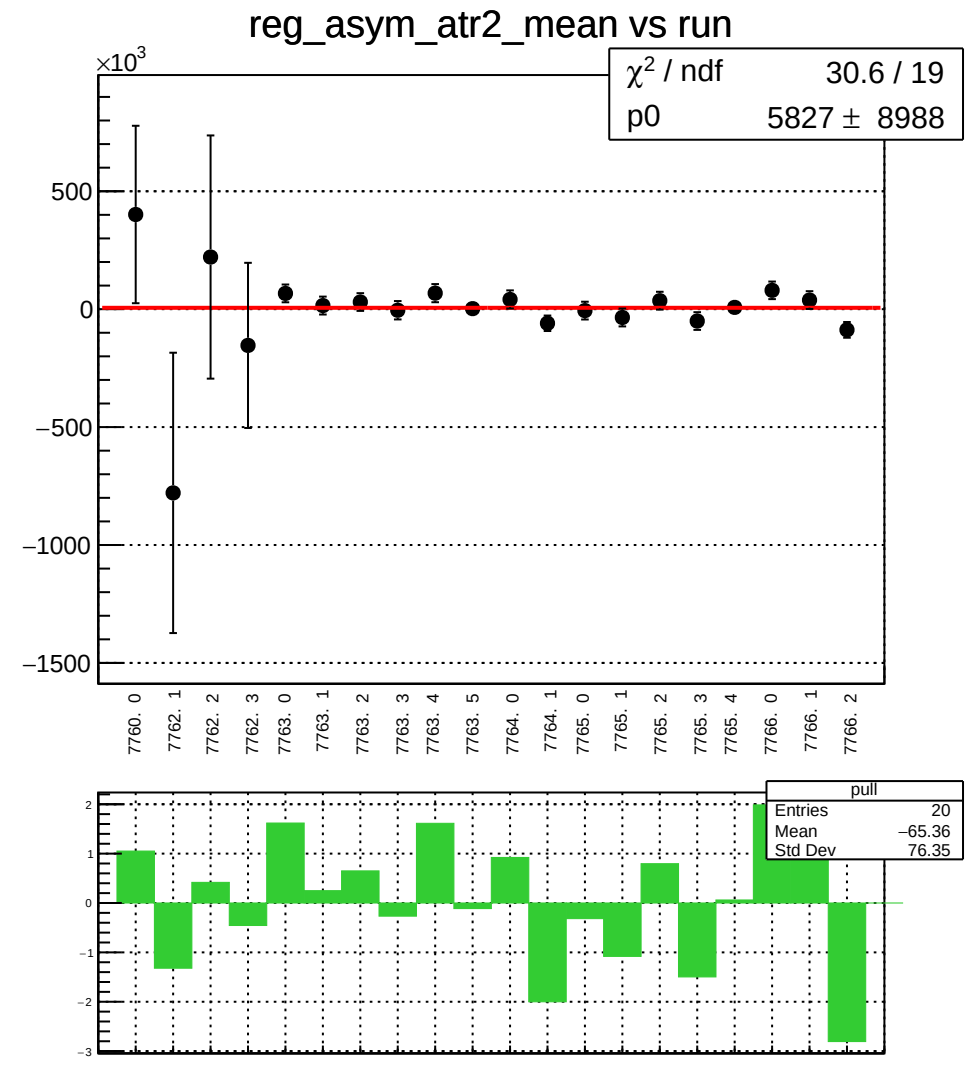

pull1D
Entries 25
Mean −0.1499
Std Dev 1.198
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

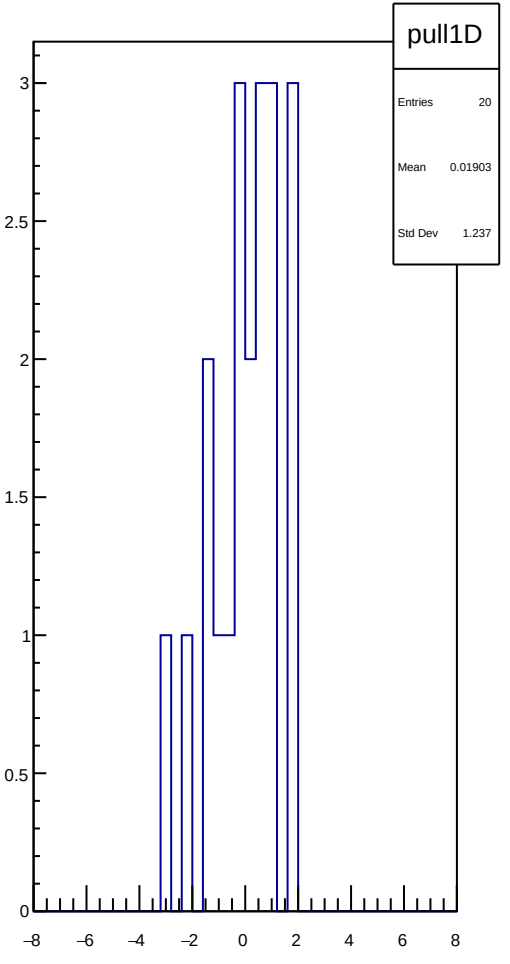

asym_atr1_correction_rms vs run
×10^3
χ^2 / ndf 2.274e+05 / 25
p0 14.66 ± 0.02723
250
200
150
100
50
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

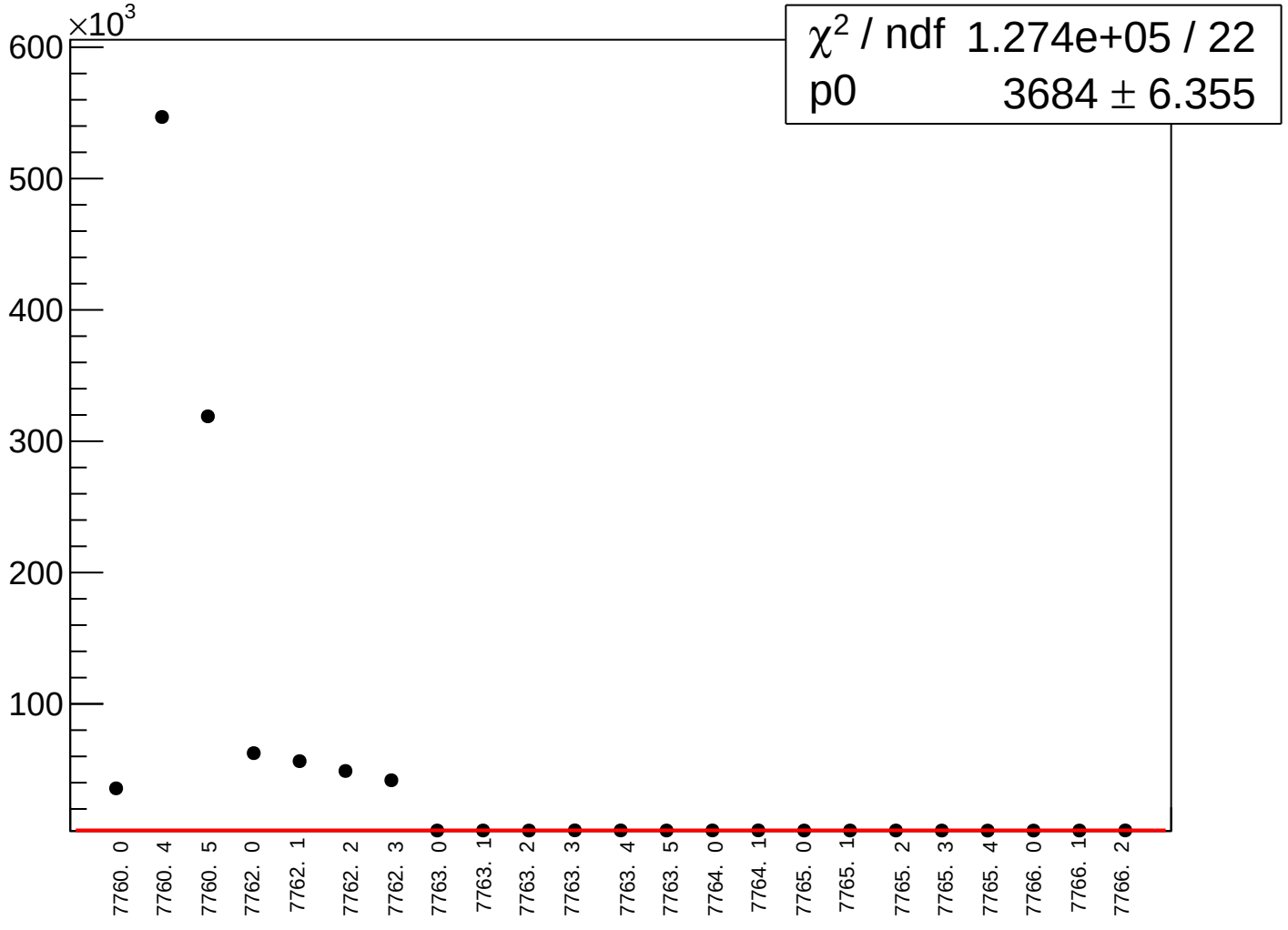

asym_atr1_mean vs run
×10^3
χ² / ndf 29.95 / 24
p0 2679 ± 1949
1400
1200
1000
800
600
400
200
0
−200
−400
−600
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 0.2102
Std Dev 12.63
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

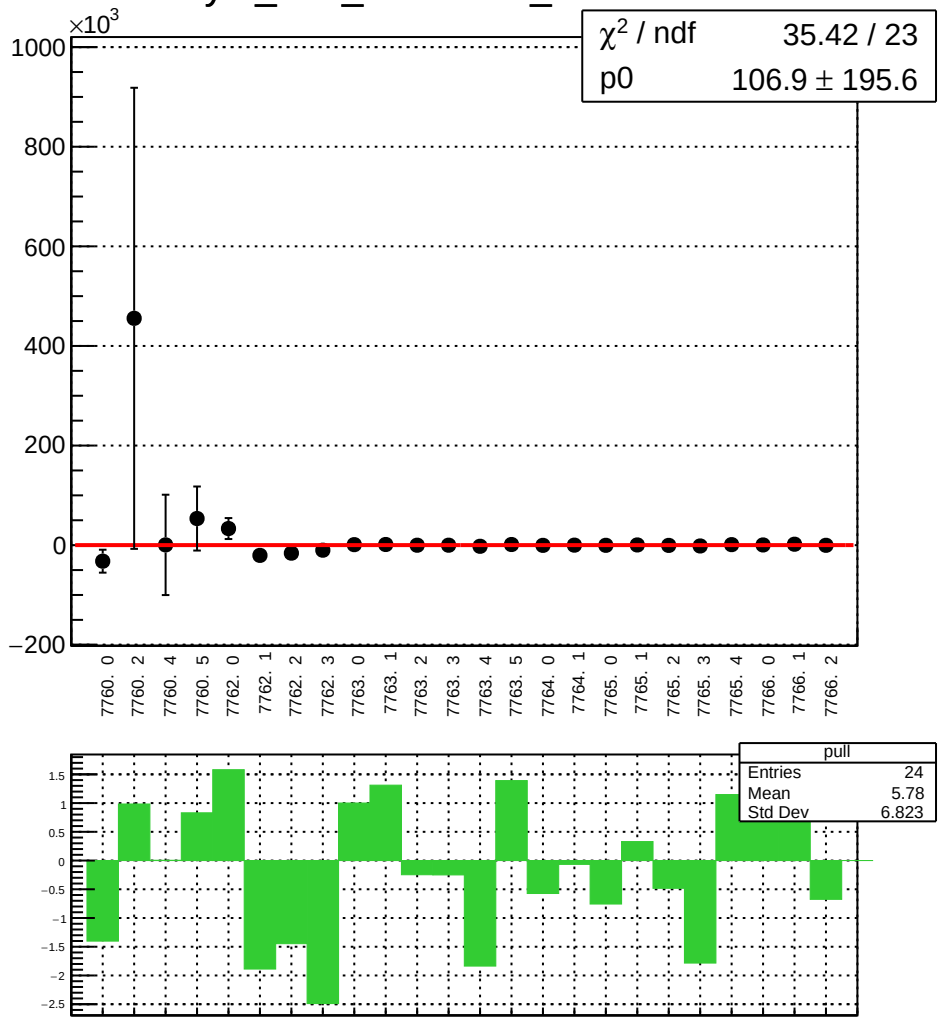

pull1D
Entries 25
Mean 0.1409
Std Dev 1.085
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

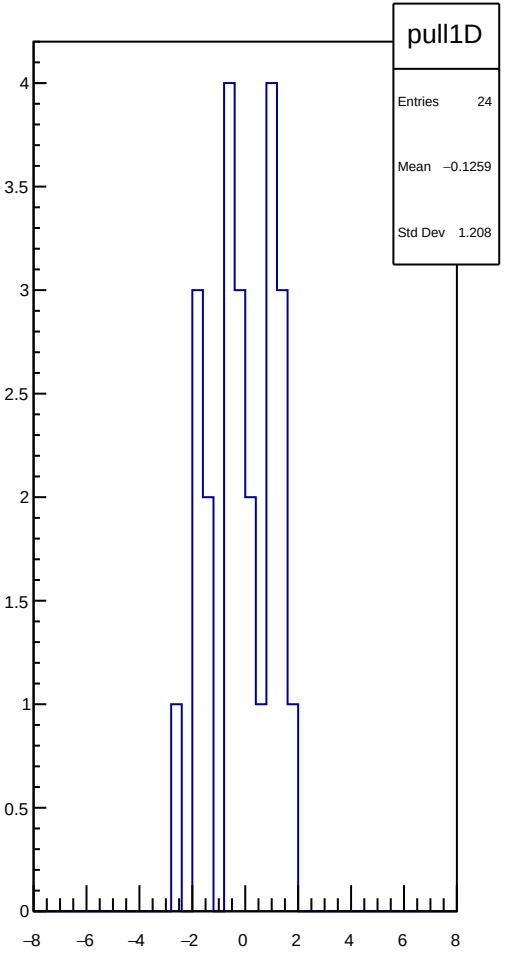

asym_atr1_rms vs run
χ² / ndf 1.601e+05 / 24
p0 802.8 ± 1.378
50000
40000
30000
20000
10000
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

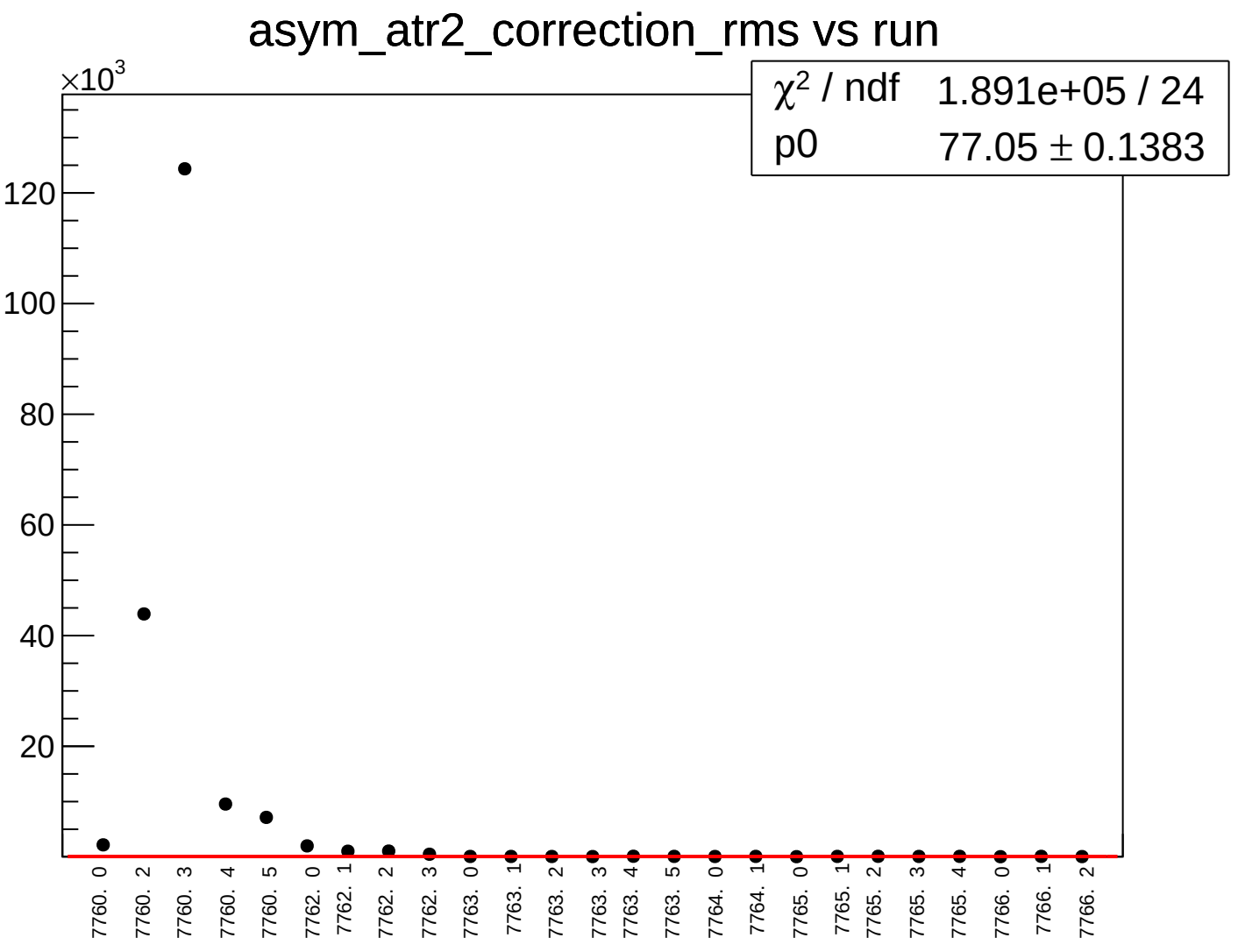

reg_asym_atr2_mean vs run
×10^3
χ^2 / ndf 30.6 / 19
p0 5827 ± 8988
500
0
−500
−1000
−1500
7760. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 20
Mean −65.36
Std Dev 76.35
2
1
0
−1
−2
−3

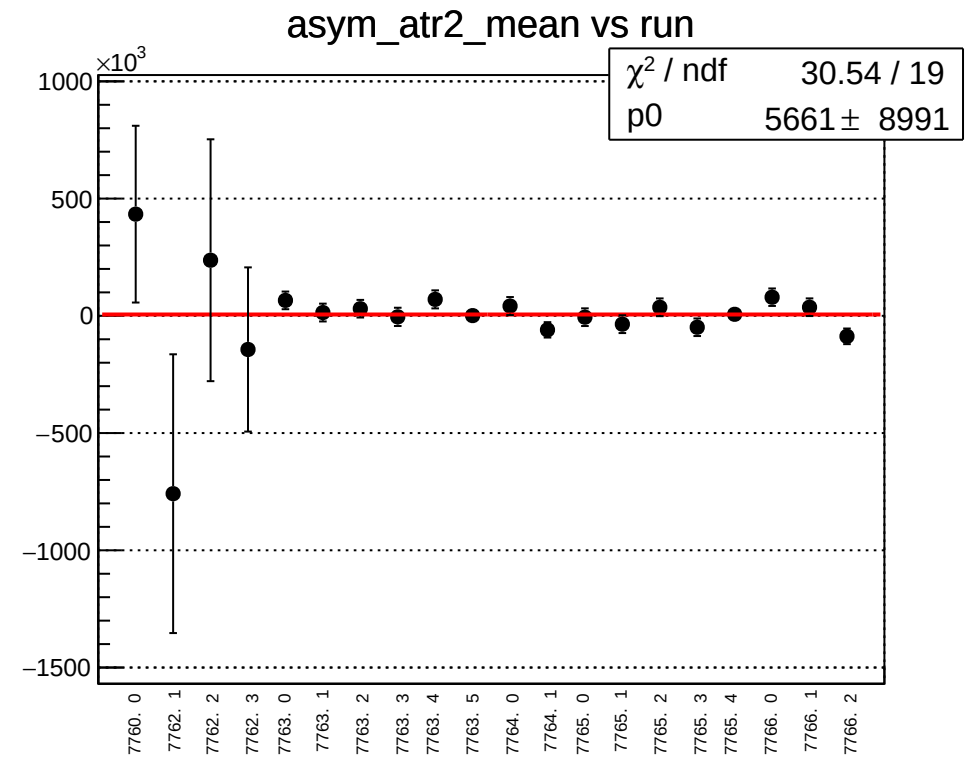

pull1D
Entries 20
Mean 0.01903
Std Dev 1.237
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

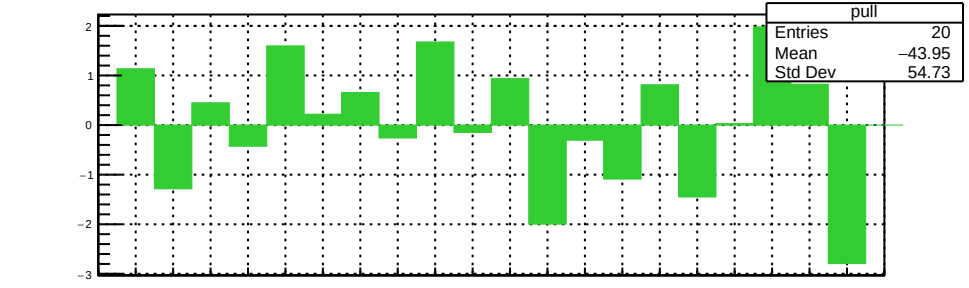

reg_asym_atr2_rms vs run
×10^3
600
500
400
300
200
100
χ² / ndf 1.274e+05 / 22
p0 3684 ± 6.355
7760. 0
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

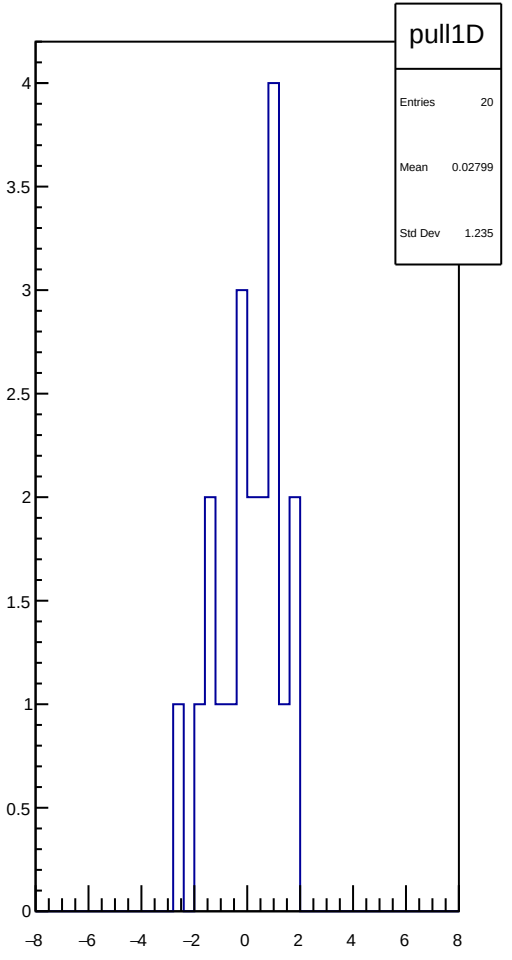

asym_atr2_correction_mean vs run
×10^3
χ² / ndf 35.42 / 23
p0 106.9 ± 195.6
1000
800
600
400
200
0
−200
7760. 0
7760. 2
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 24
Mean 5.78
Std Dev 6.823
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

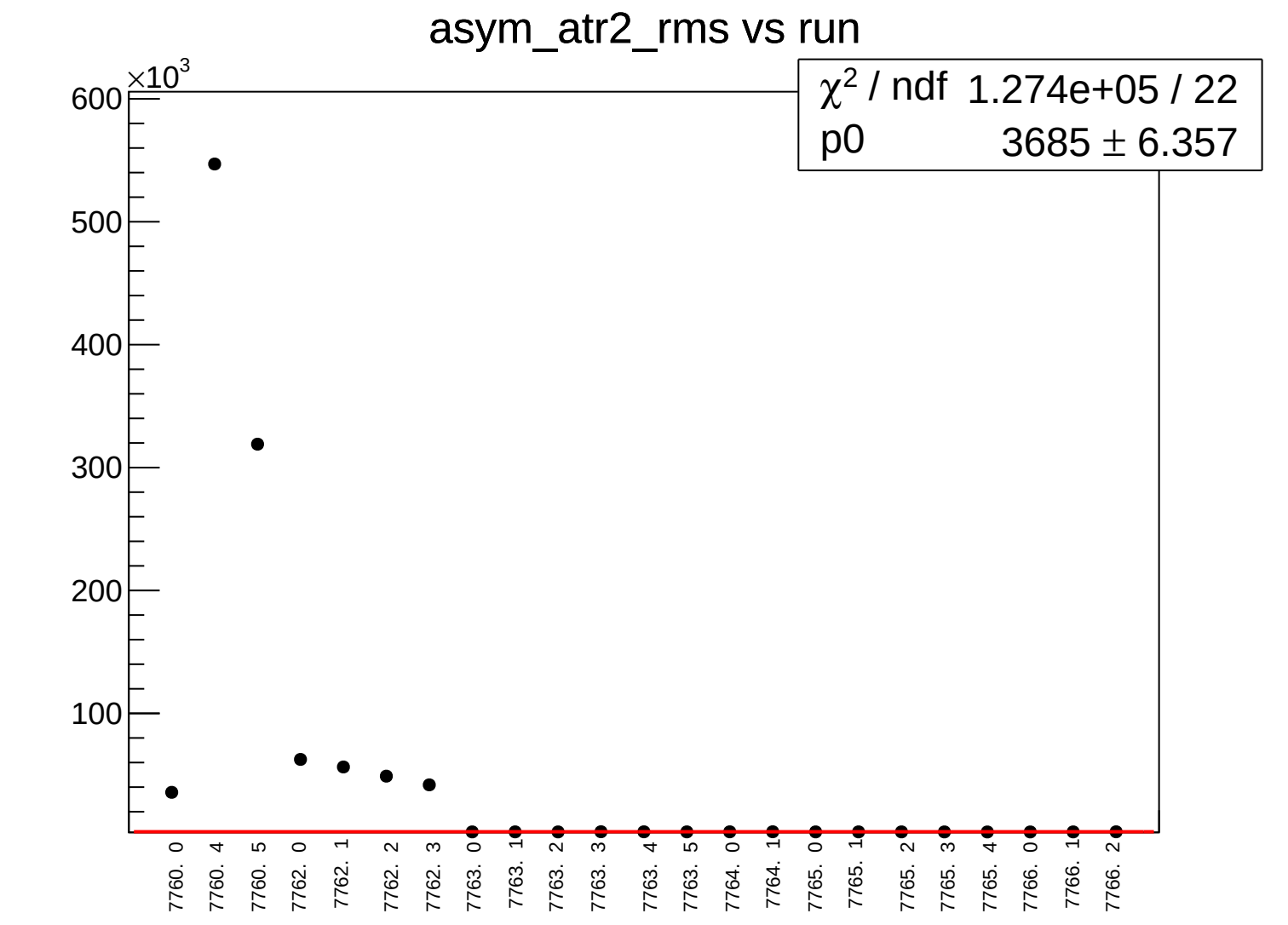

pull1D
Entries 24
Mean −0.1259
Std Dev 1.208
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

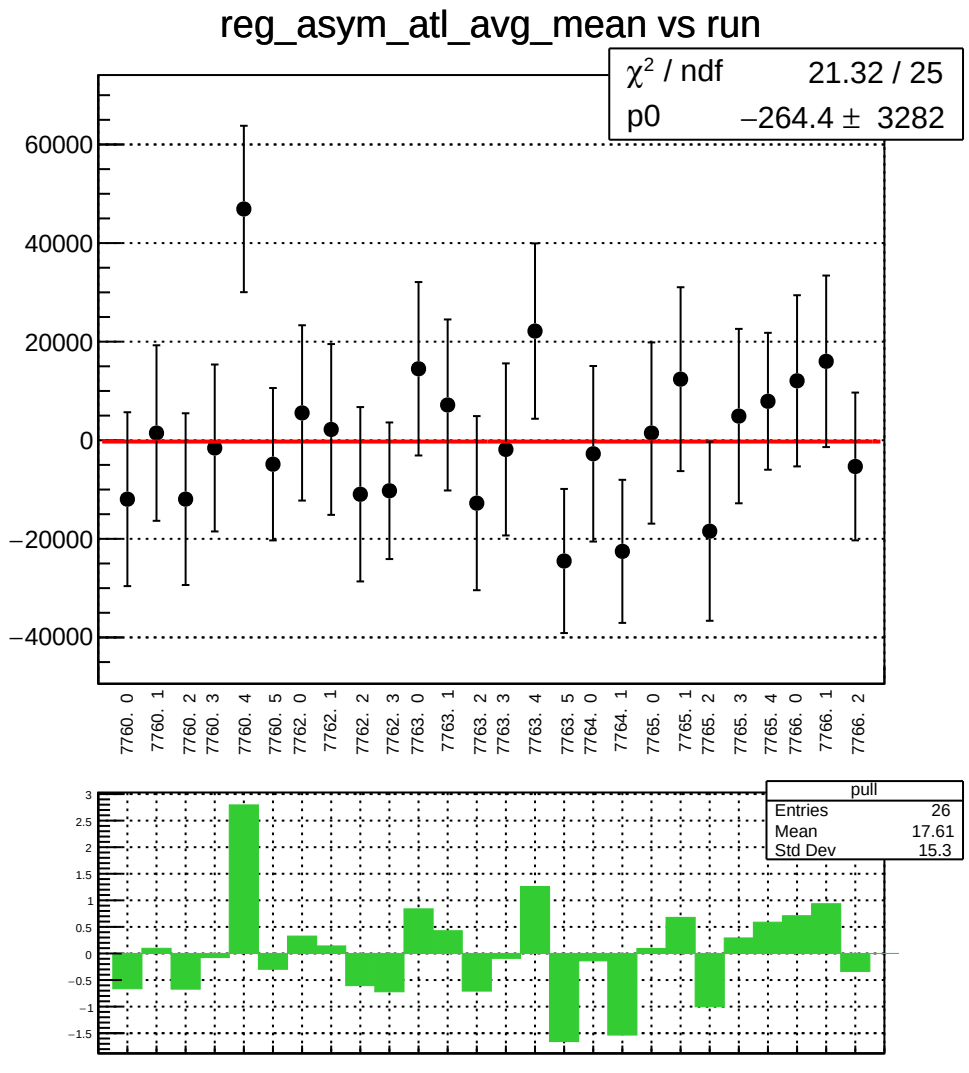

asym_atr2_correction_rms vs run
×10^3
120
100
80
60
40
20
χ² / ndf 1.891e+05 / 24
p0 77.05 ± 0.1383
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

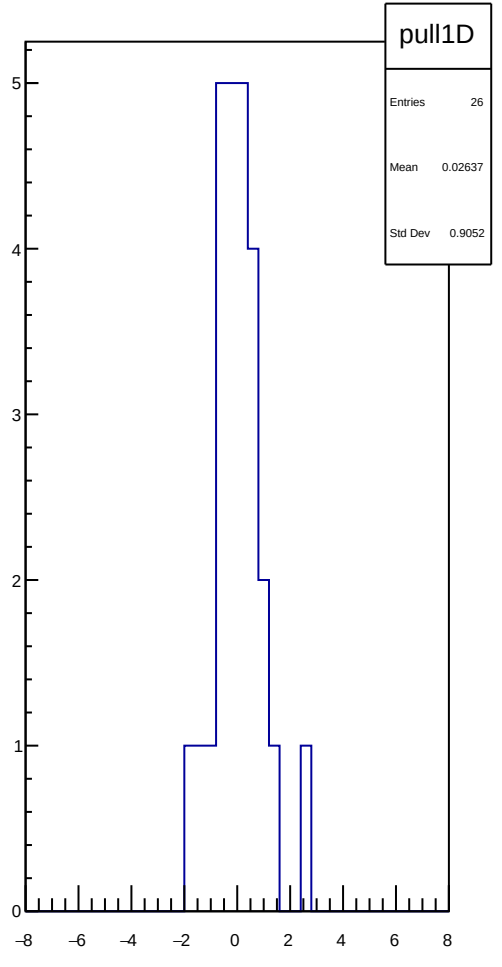

asym_atr2_mean vs run
×10^3
χ^2 / ndf 30.54 / 19
p0 5661 ± 8991
1000
500
0
−500
−1000
−1500
7760. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

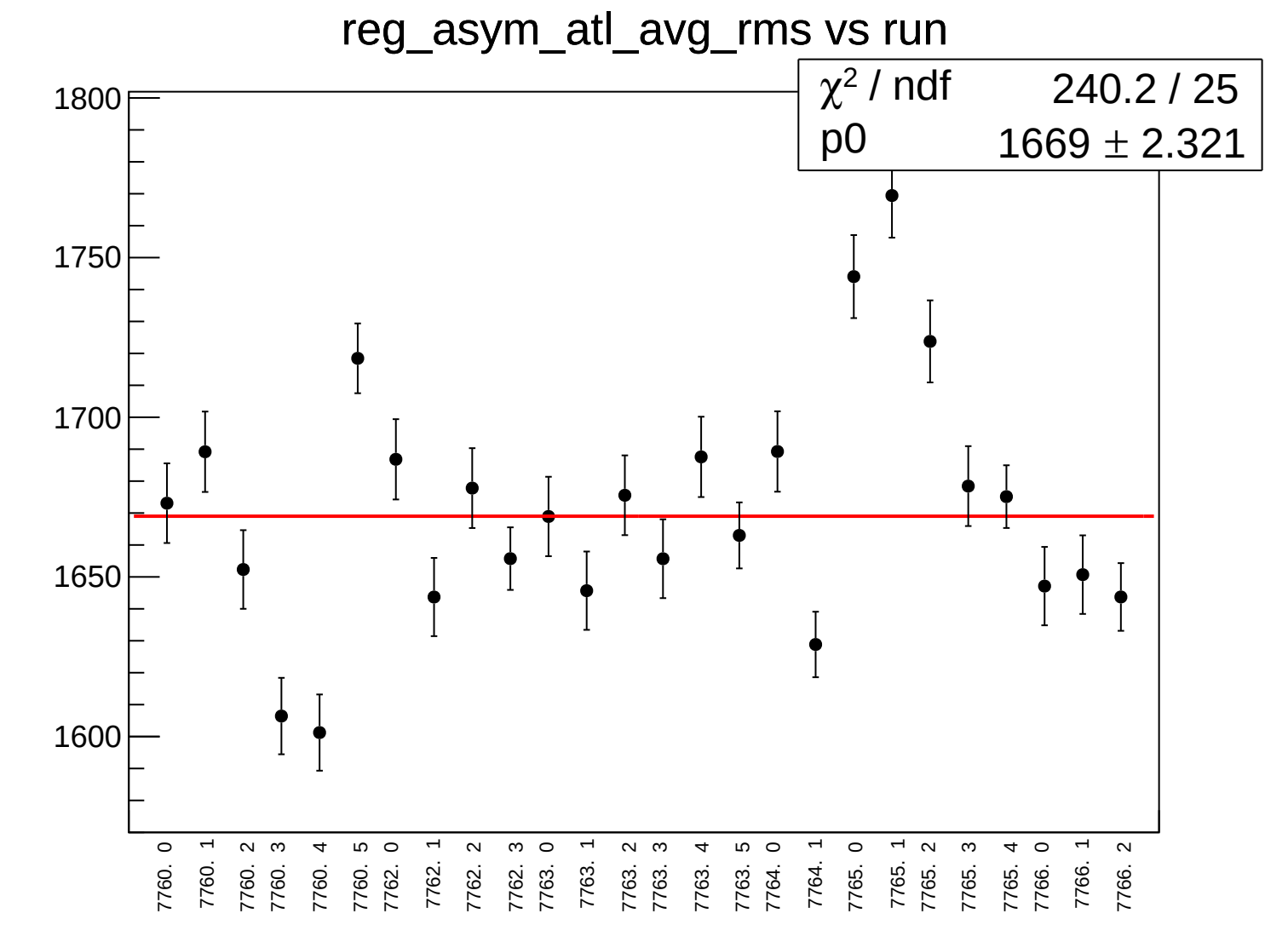

pull
Entries 20
Mean −43.95
Std Dev 54.73
2
1
0
−1
−2
−3

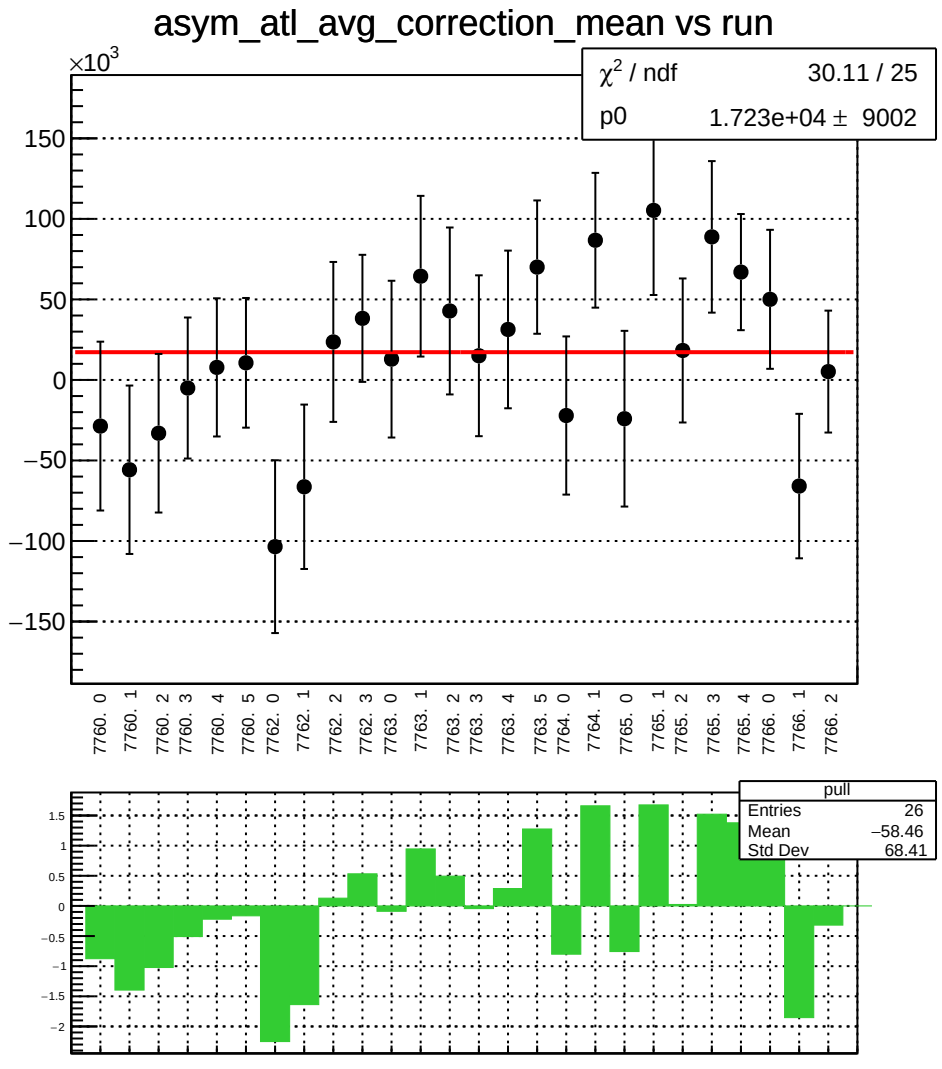

pull1D
Entries 20
Mean 0.02799
Std Dev 1.235
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

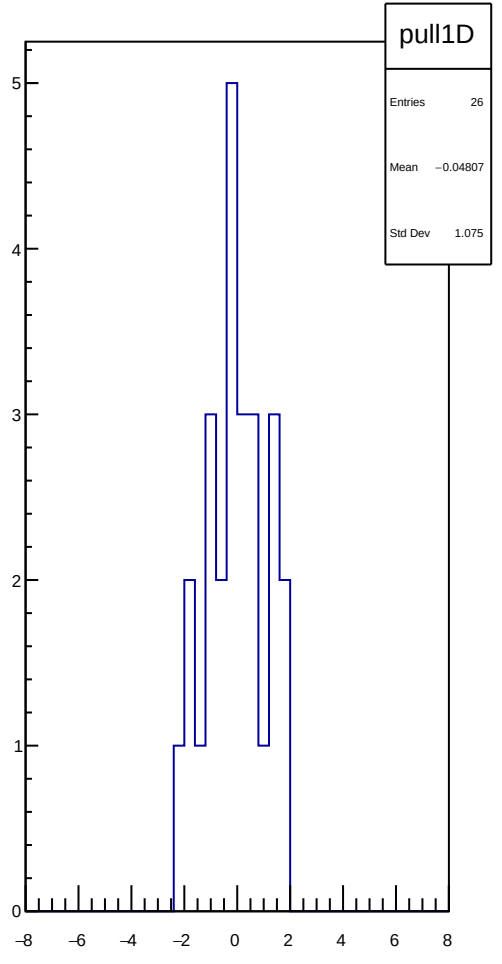

asym_atr2_rms vs run
×10^3
600
500
400
300
200
100
χ² / ndf 1.274e+05 / 22
p0 3685 ± 6.357
7760. 0
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

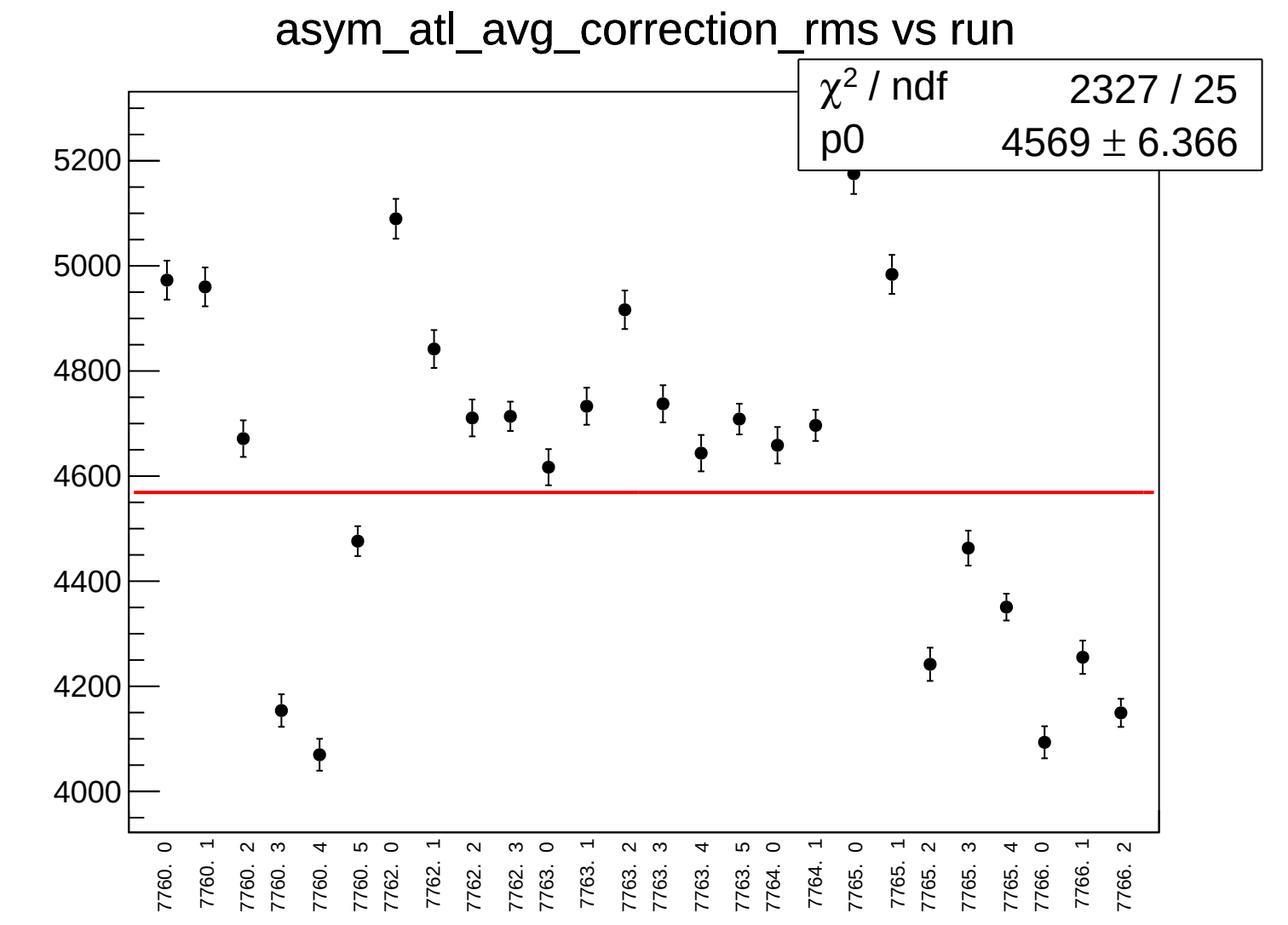

reg_asym_atl_avg_mean vs run
χ² / ndf 21.32 / 25
p0 −264.4 ± 3282
60000
40000
20000
0
−20000
−40000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 17.61
Std Dev 15.3
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

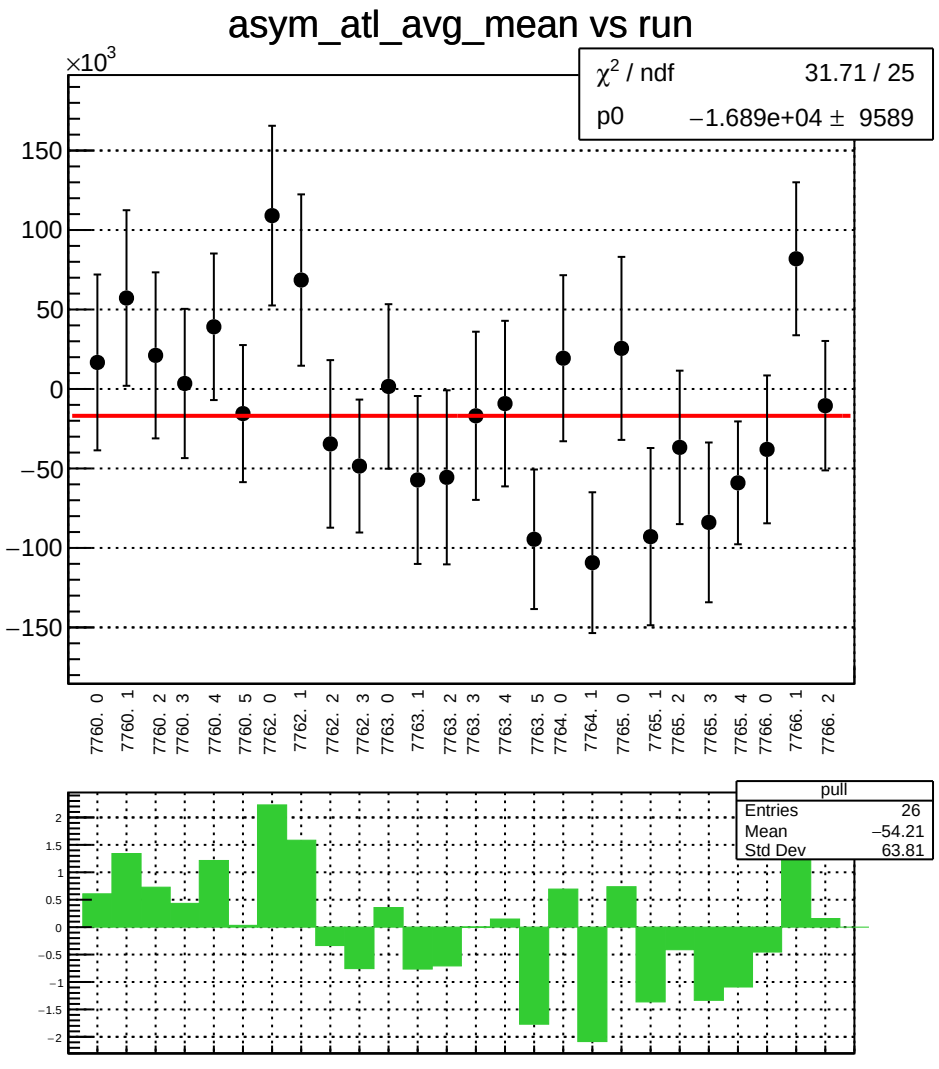

pull1D
Entries 26
Mean 0.02637
Std Dev 0.9052
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

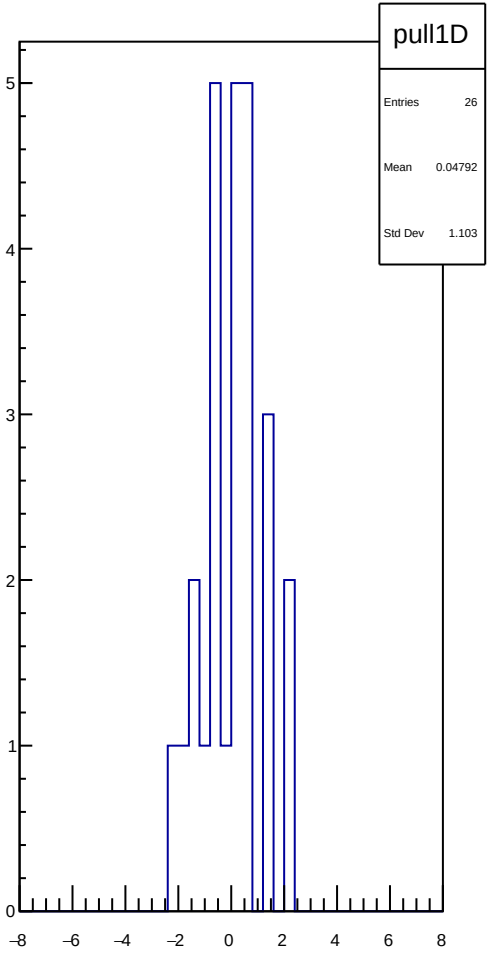

reg_asym_atl_avg_rms vs run
χ² / ndf 240.2 / 25
p0 1669 ± 2.321
1800
1750
1700
1650
1600
17760. 0
17760. 1
17760. 2
17760. 3
17760. 4
17760. 5
17762. 0
17762. 1
17762. 2
17762. 3
17763. 0
17763. 1
17763. 2
17763. 3
17763. 4
17763. 5
17764. 0
17764. 1
17765. 0
17765. 1
17765. 2
17765. 3
17765. 4
17766. 0
17766. 1
17766. 2

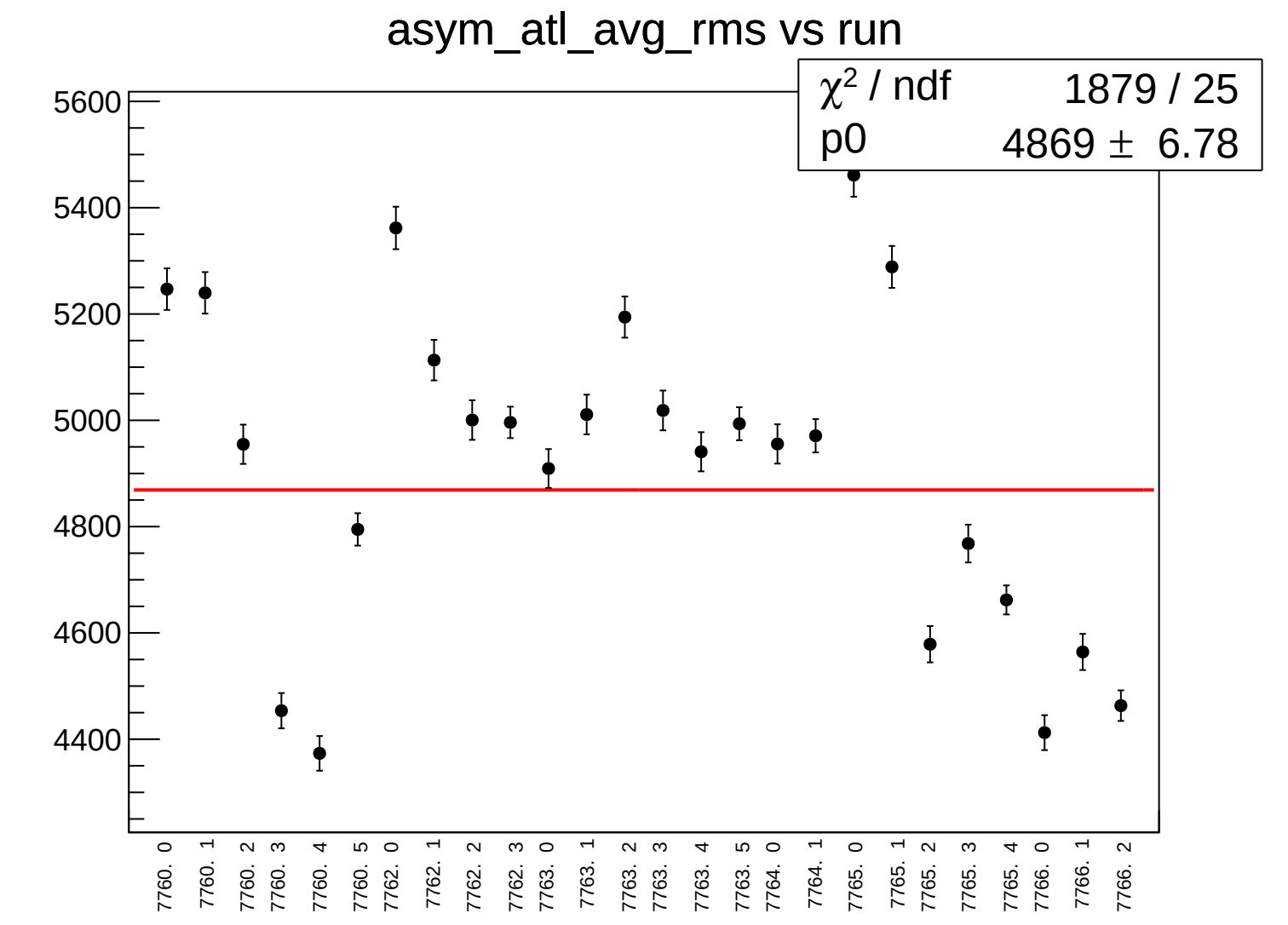

asym_atl_avg_correction_mean vs run
×10^3
χ² / ndf 30.11 / 25
p0 1.723e+04 ± 9002
150
100
50
0
−50
−100
−150
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −58.46
Std Dev 68.41
1.5
1
0.5
0
−0.5
−1
−1.5
−2

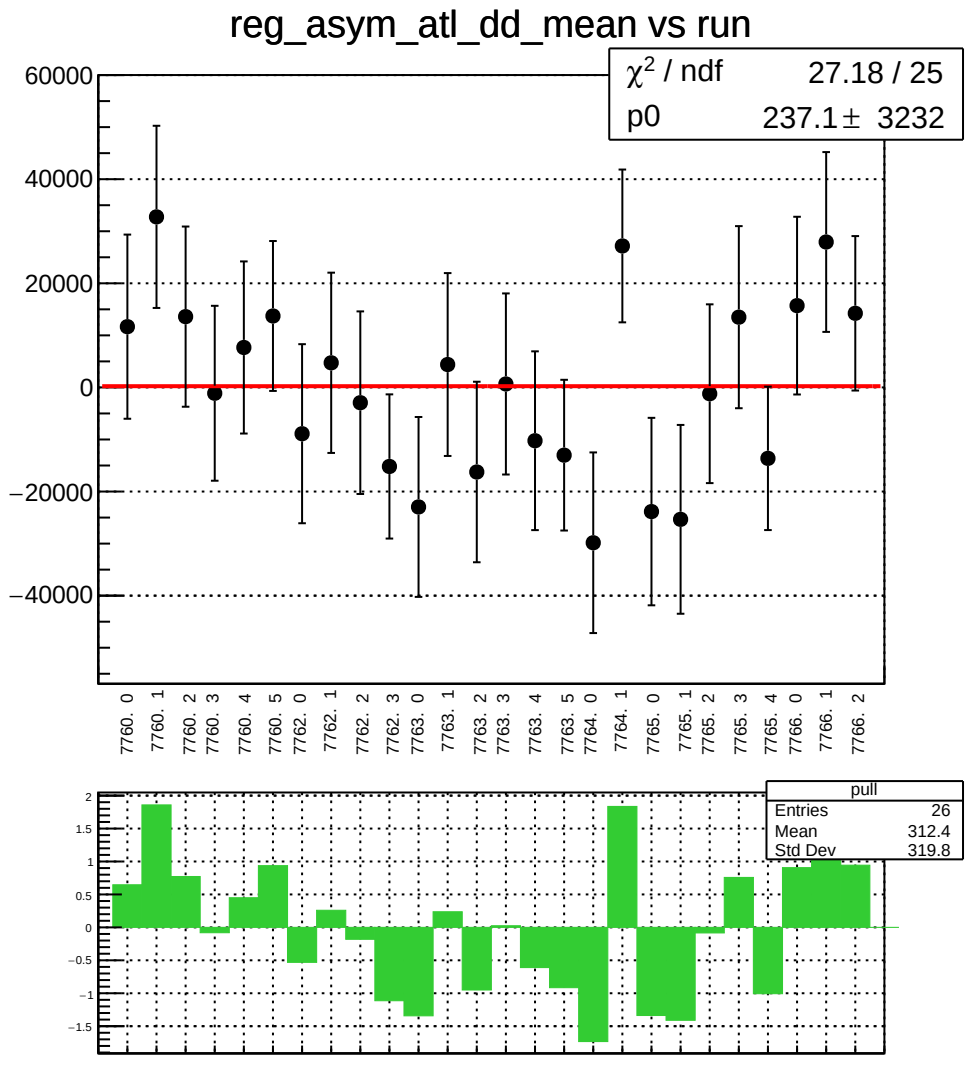

pull1D
Entries 26
Mean −0.04807
Std Dev 1.075
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

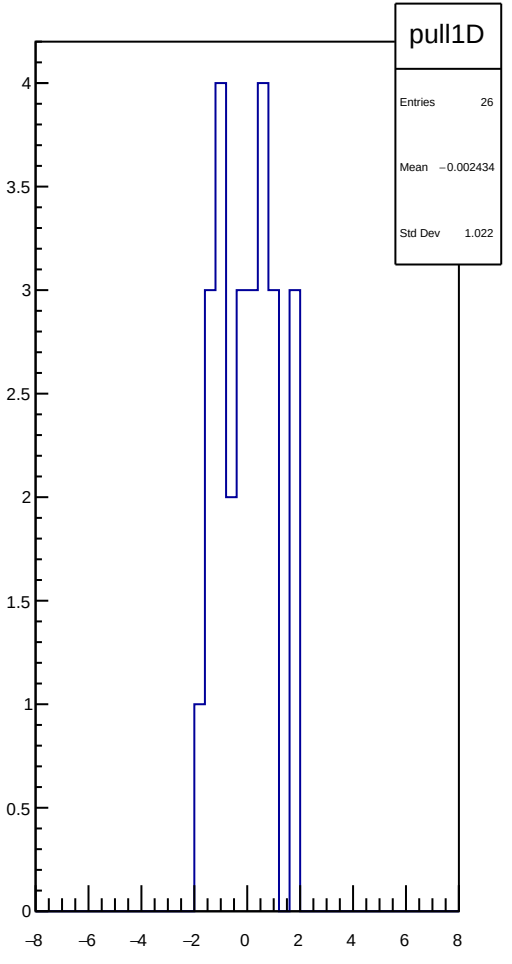

asym_atl_avg_correction_rms vs run
χ² / ndf 2327 / 25
p0 4569 ± 6.366
5200
5000
4800
4600
4400
4200
4000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

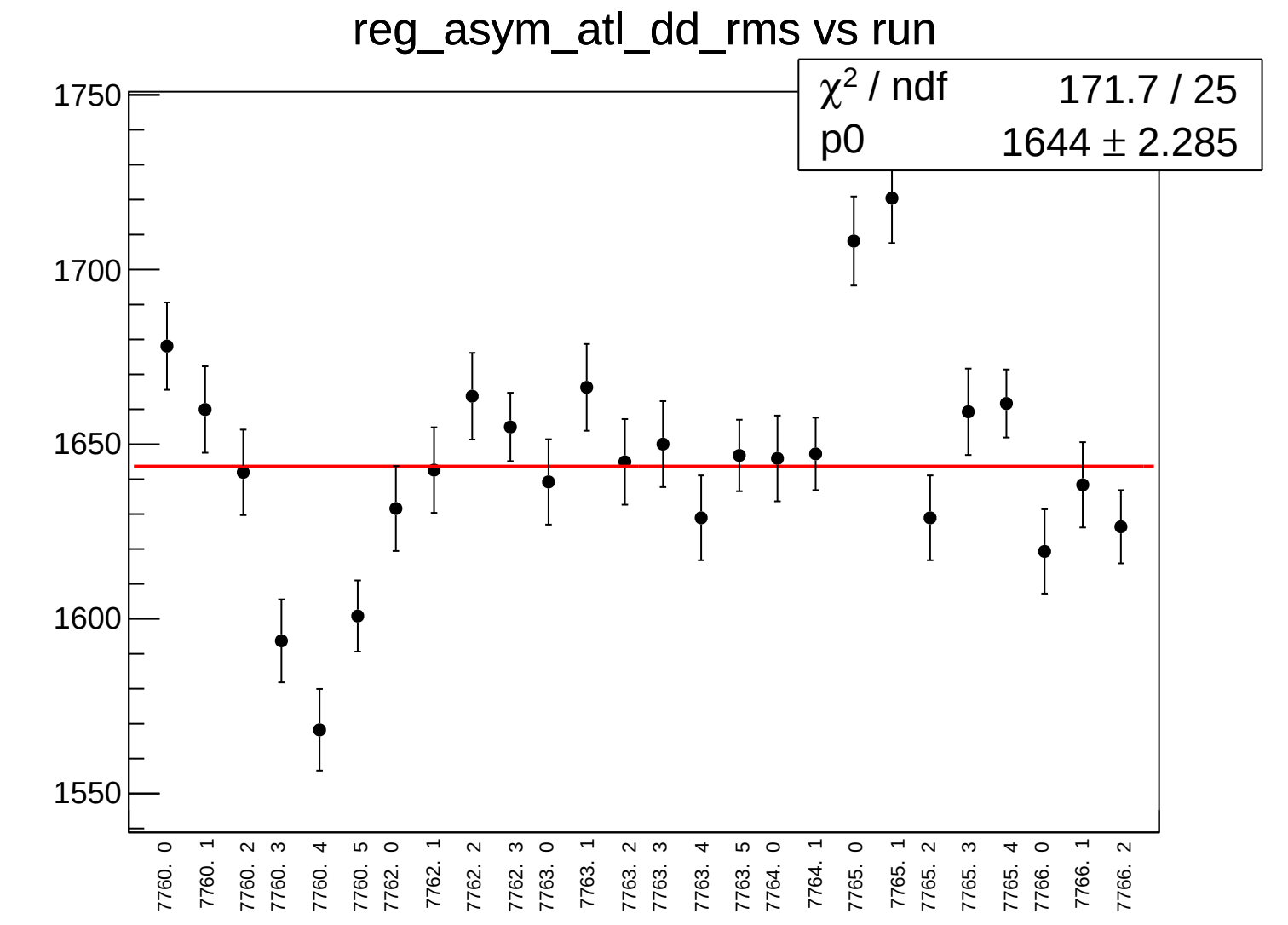

asym_atl_avg_mean vs run
×10^3
χ² / ndf 31.71 / 25
p0 −1.689e+04 ± 9589
150
100
50
0
−50
−100
−150
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −54.21
Std Dev 63.81
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

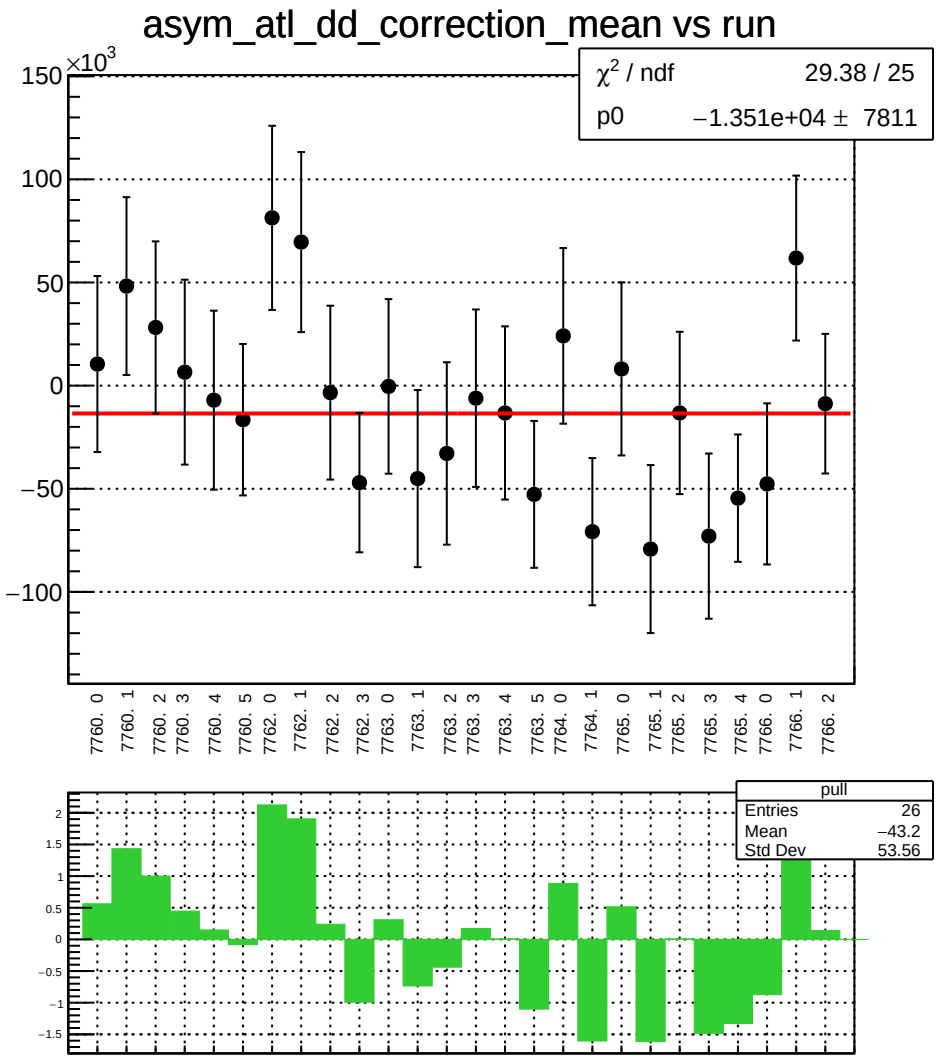

pull1D
Entries 26
Mean 0.04792
Std Dev 1.103
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

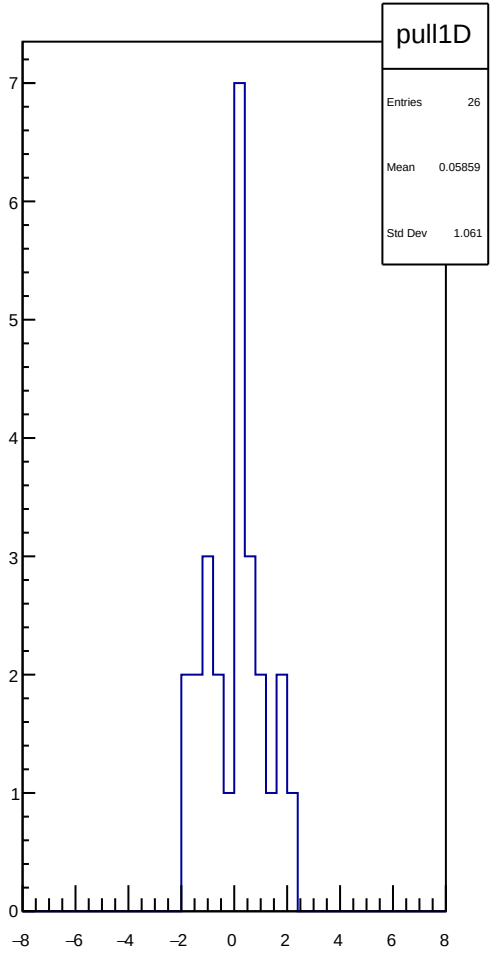

asym_atl_avg_rms vs run
χ² / ndf 1879 / 25
p0 4869 ± 6.78
5600
5400
5200
5000
4800
4600
4400
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

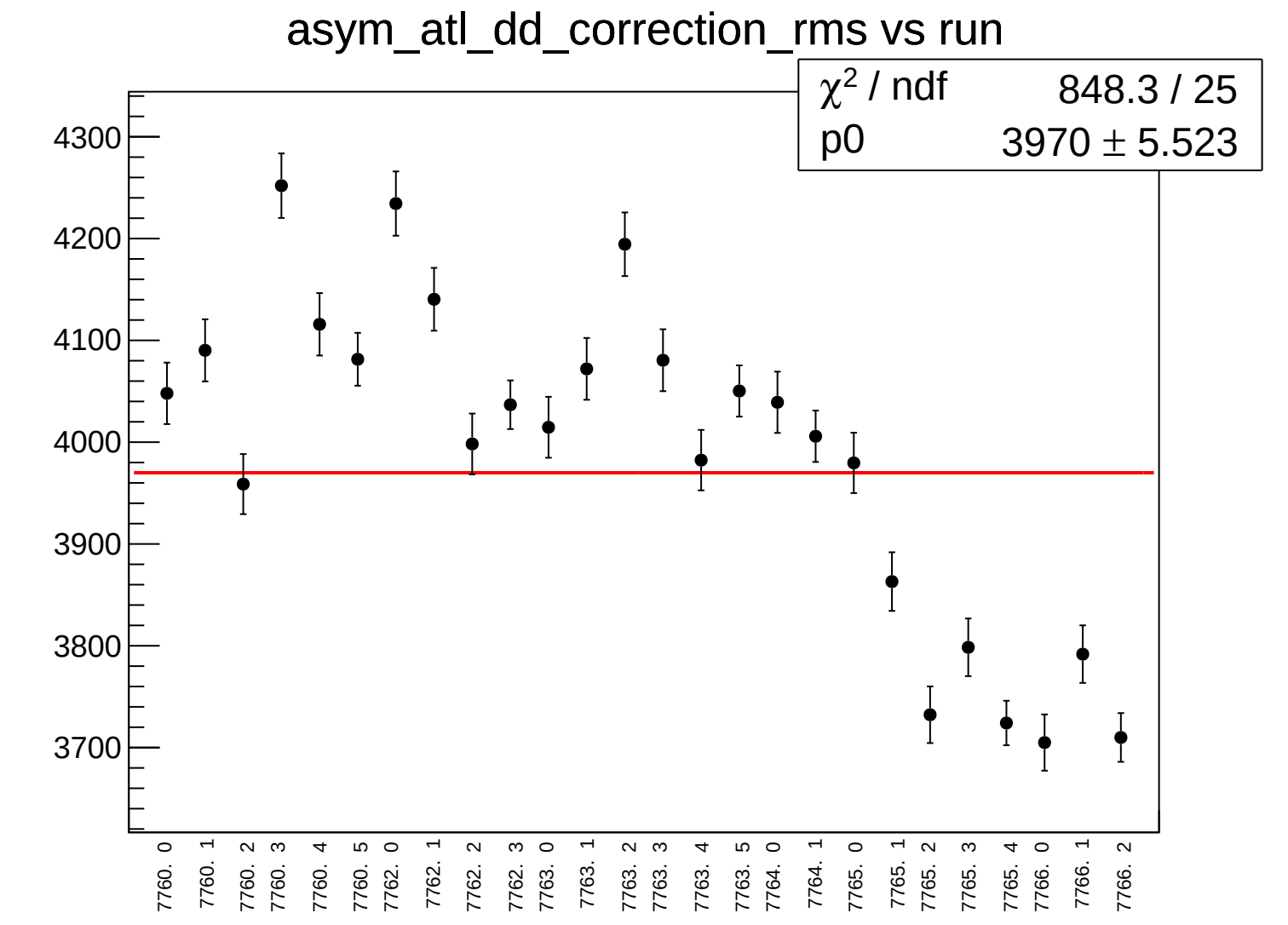

reg_asym_atl_dd_mean vs run
χ² / ndf 27.18 / 25
p0 237.1 ± 3232
60000
40000
20000
0
−20000
−40000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 312.4
Std Dev 319.8
2
1.5
1
0.5
0
−0.5
−1
−1.5

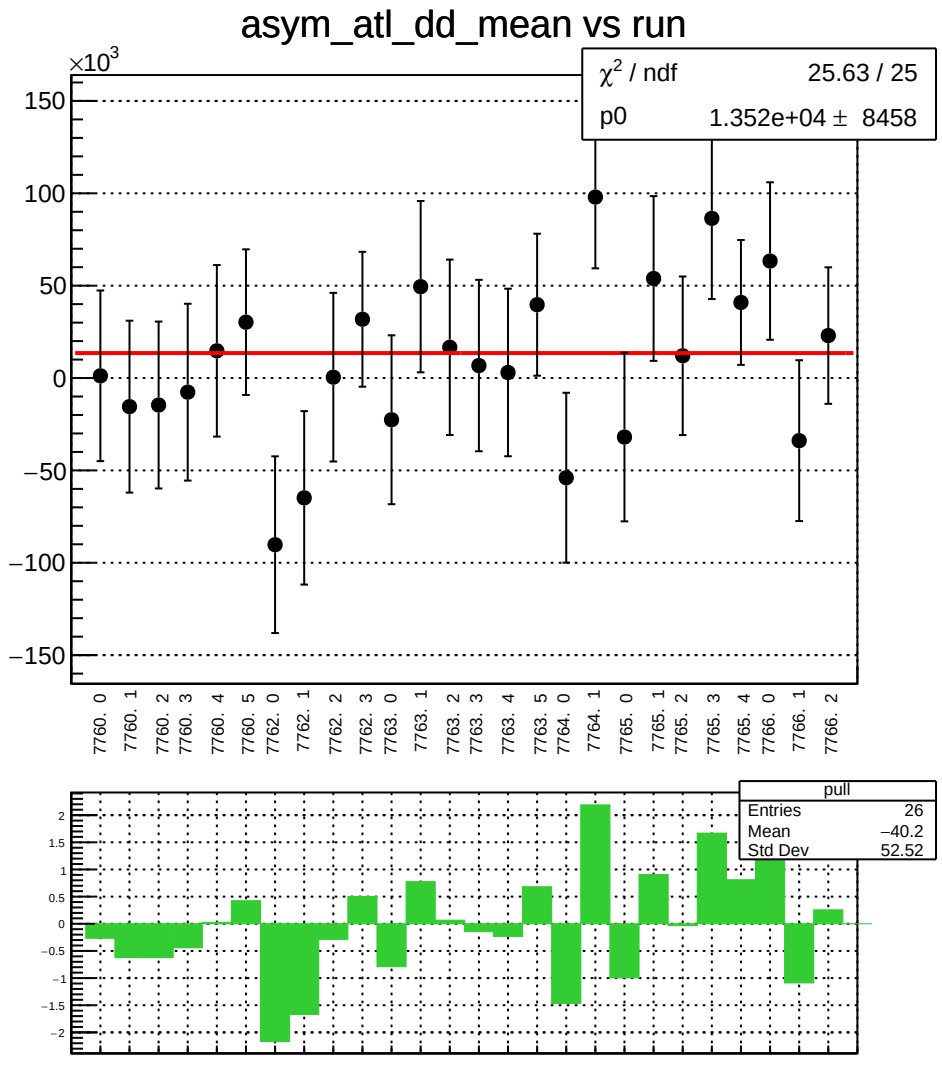

pull1D
Entries 26
Mean −0.002434
Std Dev 1.022
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

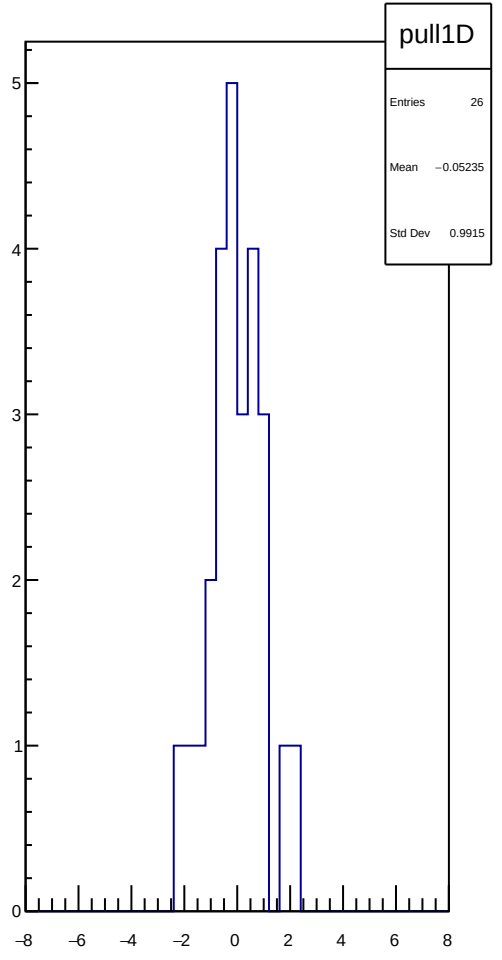

reg_asym_atl_dd_rms vs run
χ² / ndf 171.7 / 25
p0 1644 ± 2.285
1750
1700
1650
1600
1550
17760. 0
17760. 1
17760. 2
17760. 3
17760. 4
17760. 5
17762. 0
17762. 1
17762. 2
17762. 3
17763. 0
17763. 1
17763. 2
17763. 3
17763. 4
17763. 5
17764. 0
17764. 1
17765. 0
17765. 1
17765. 2
17765. 3
17765. 4
17766. 0
17766. 1
17766. 2

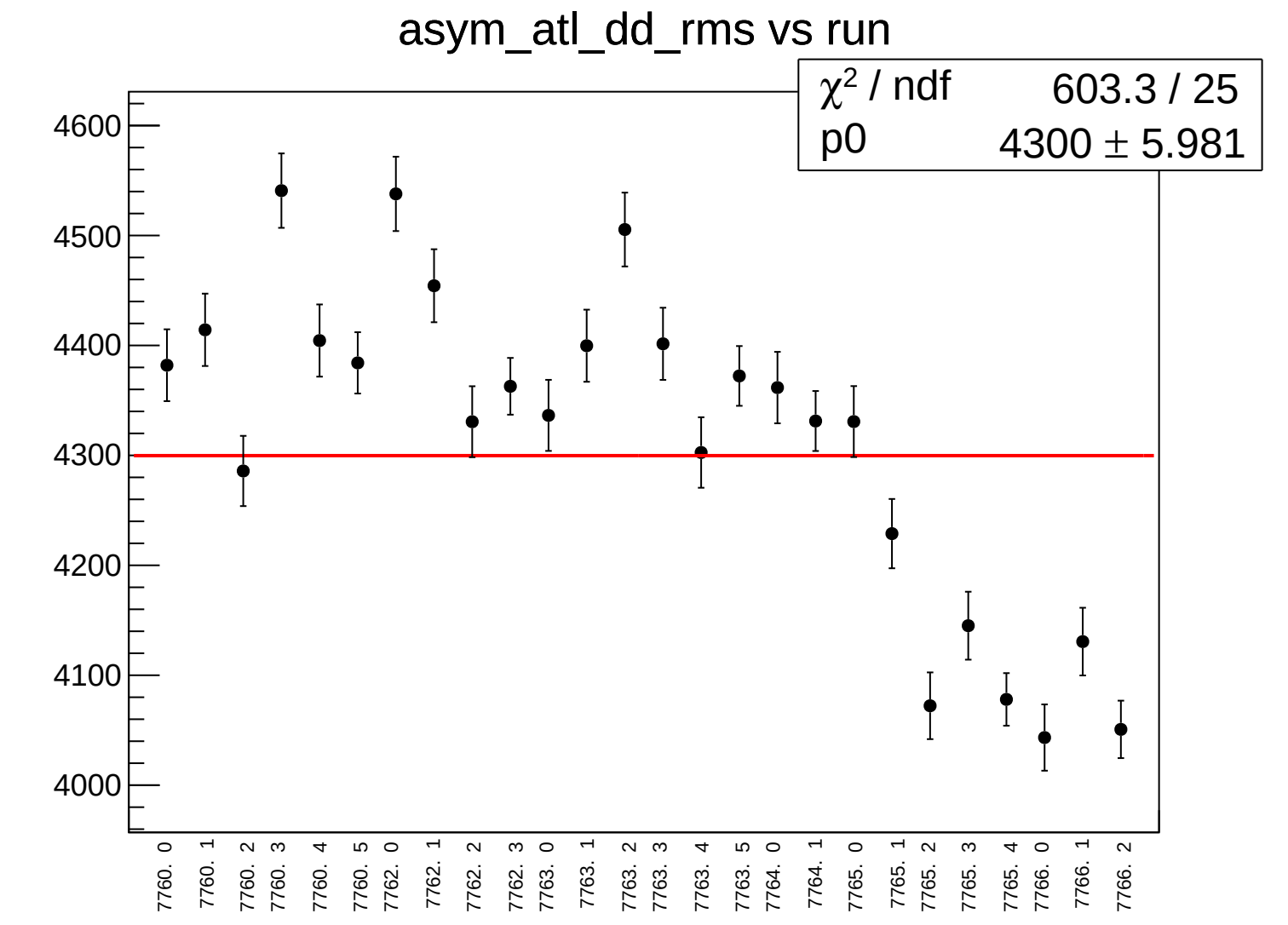

asym_atl_dd_correction_mean vs run
×10^3
χ² / ndf 29.38 / 25
p0 −1.351e+04 ± 7811
150
100
50
0
−50
−100
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −43.2
Std Dev 53.56
2
1.5
1
0.5
0
−0.5
−1
−1.5

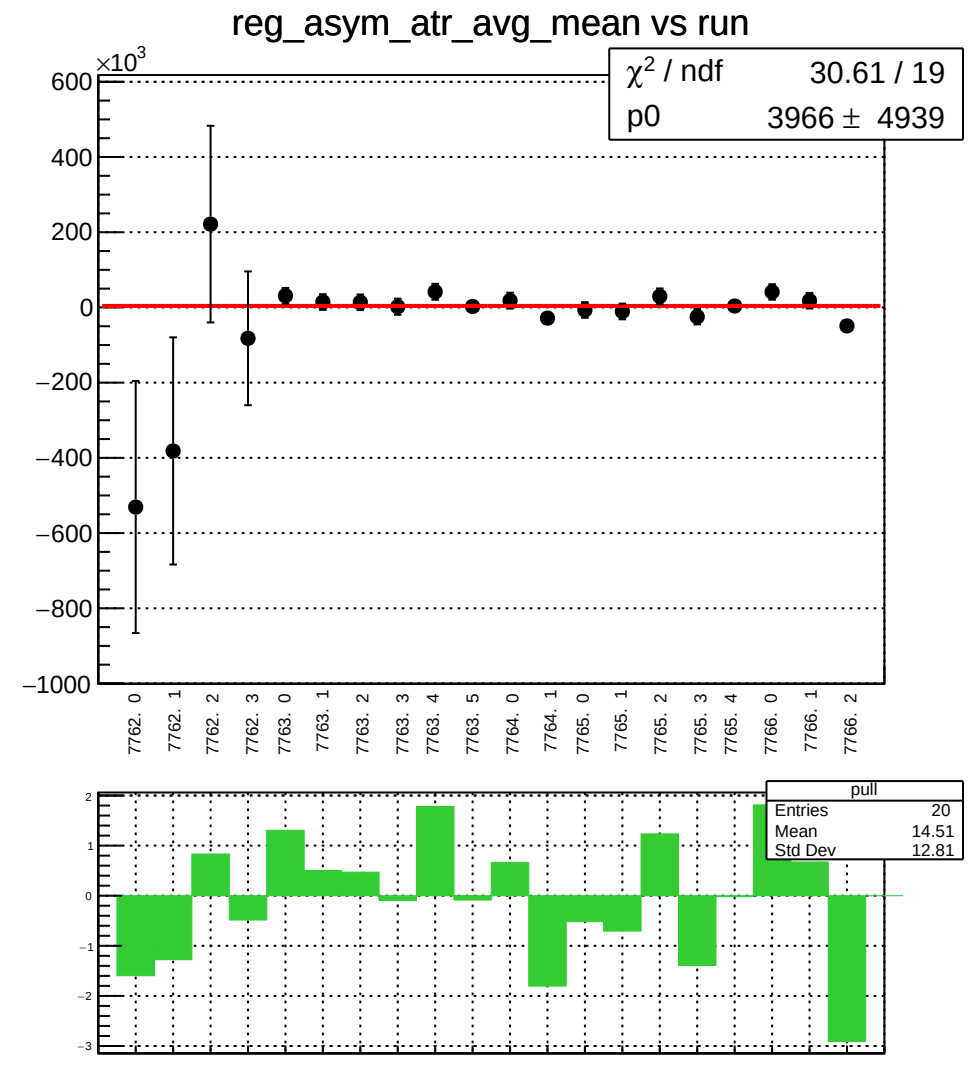

pull1D
Entries 26
Mean 0.05859
Std Dev 1.061
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

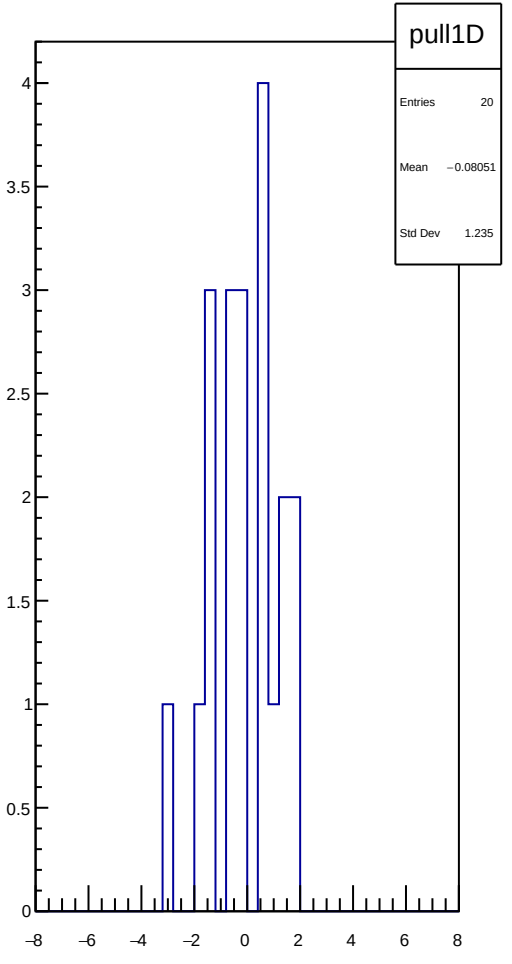

asym_atl_dd_correction_rms vs run
χ² / ndf 848.3 / 25
p0 3970 ± 5.523
4300
4200
4100
4000
3900
3800
3700
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

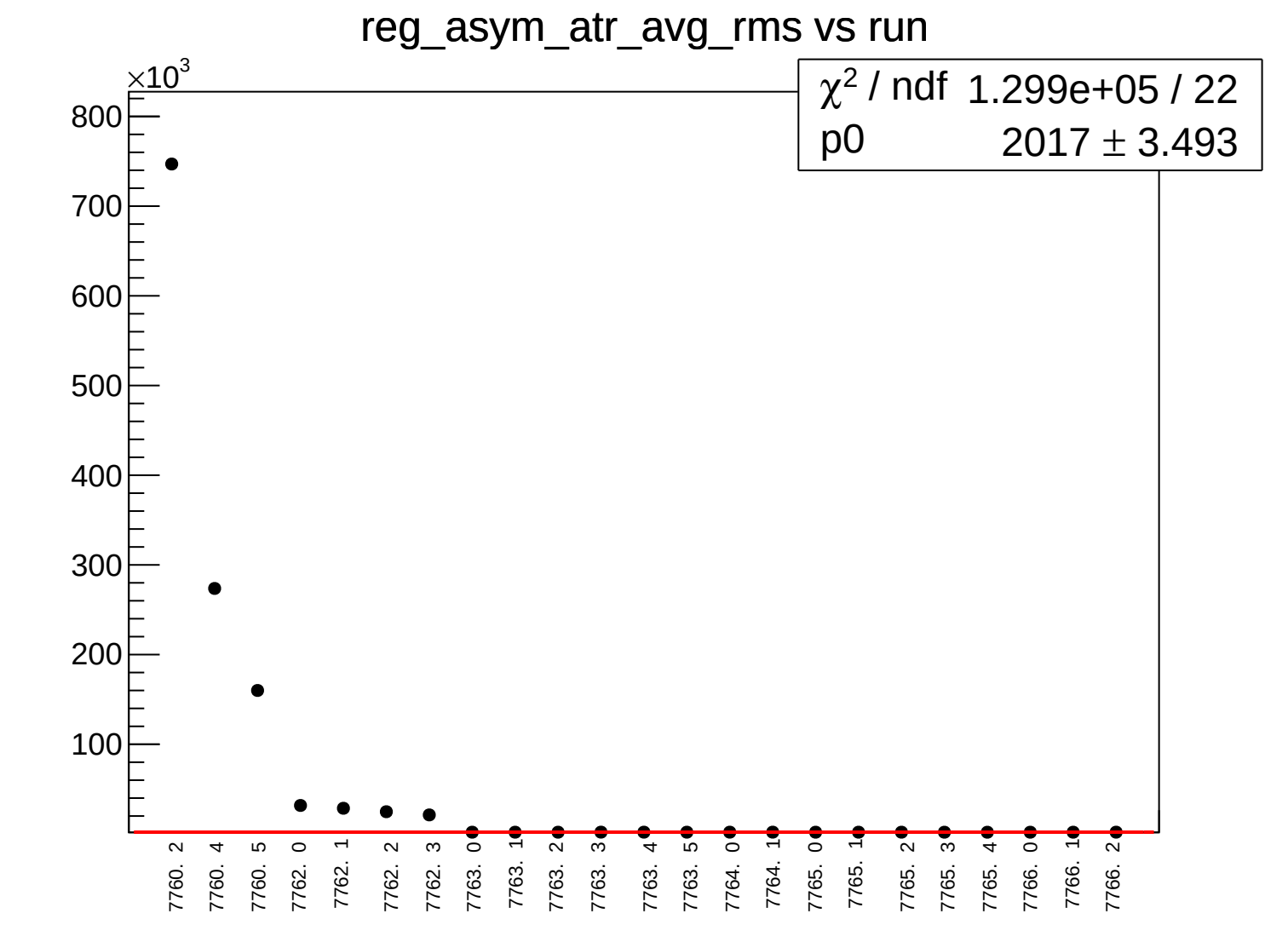

asym_atl_dd_mean vs run
×10^3
χ² / ndf 25.63 / 25
p0 1.352e+04 ± 8458
150
100
50
0
−50
−100
−150
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −40.2
Std Dev 52.52
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

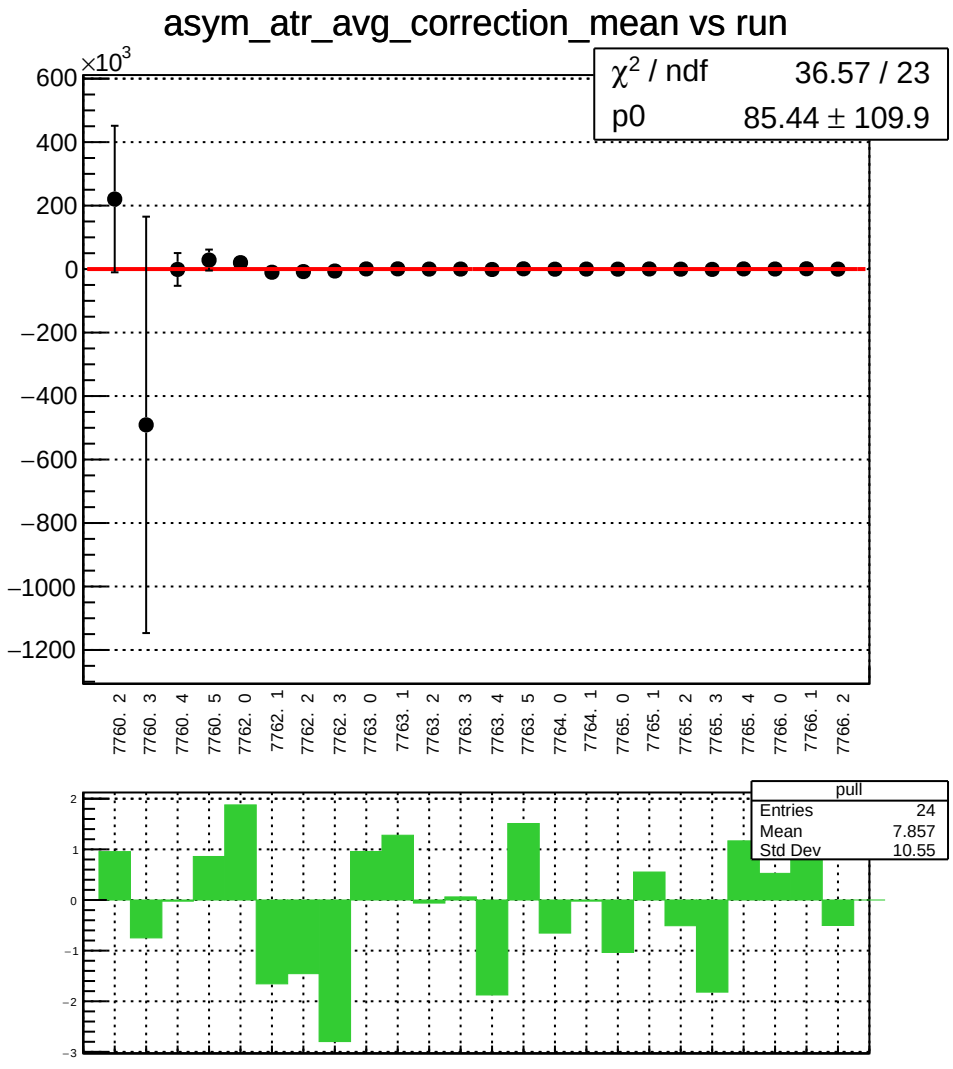

pull1D
Entries 26
Mean −0.05235
Std Dev 0.9915
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

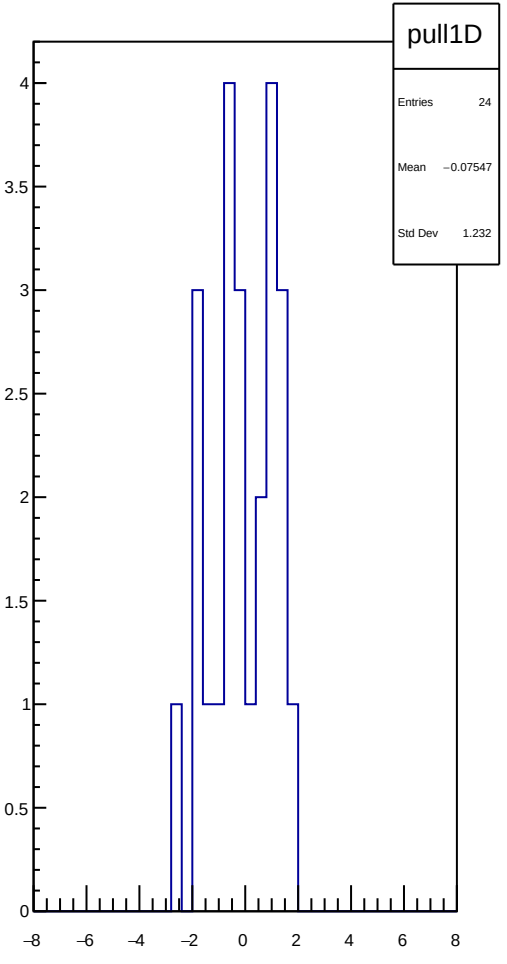

asym_atl_dd_rms vs run
χ² / ndf 603.3 / 25
p0 4300 ± 5.981
4600
4500
4400
4300
4200
4100
4000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

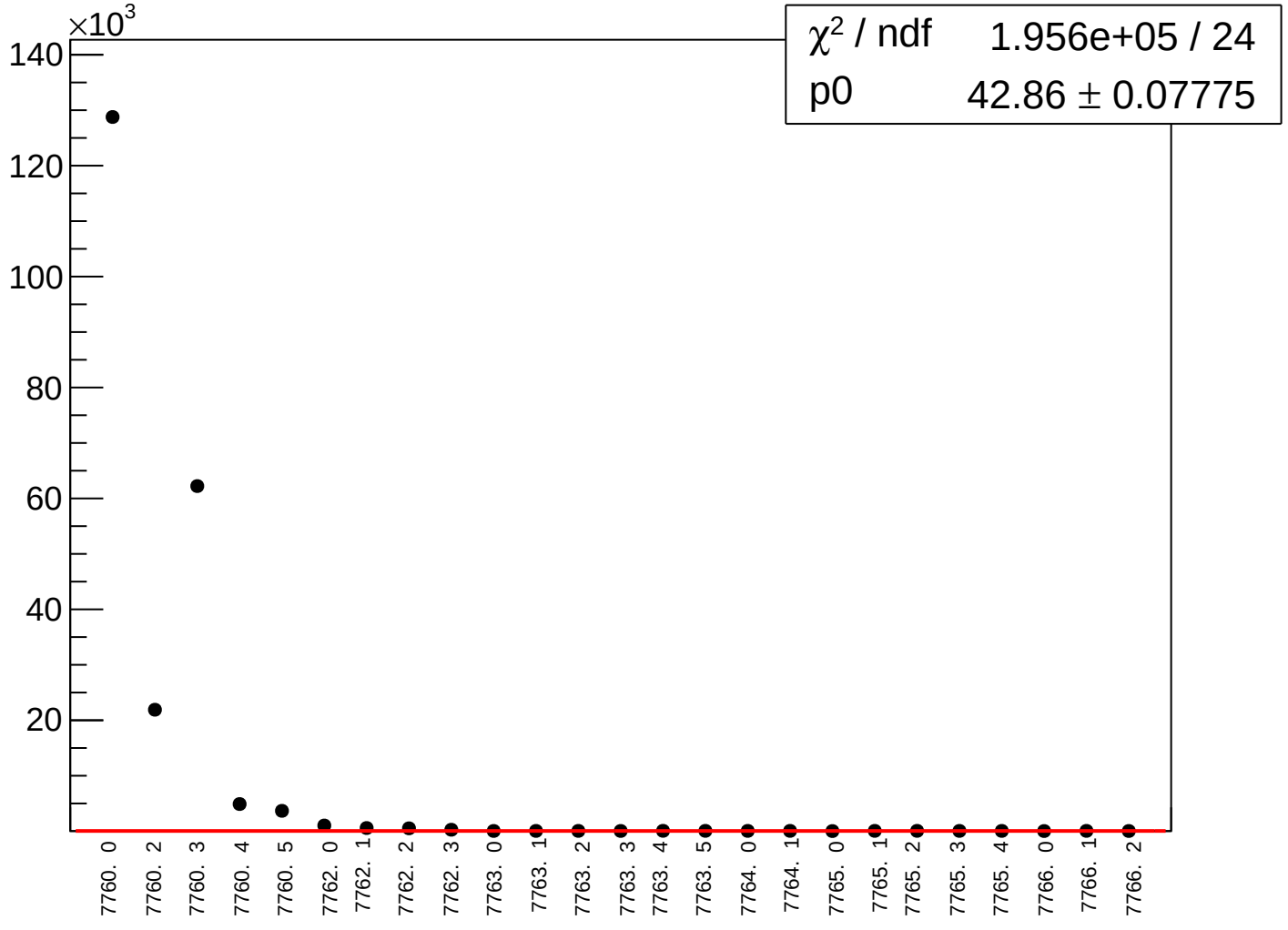

reg_asym_atr_avg_mean vs run
×10^3
χ^2 / ndf 30.61 / 19
p0 3966 ± 4939
600
400
200
0
−200
−400
−600
−800
−1000
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 20
Mean 14.51
Std Dev 12.81
2
1
0
−1
−2
−3

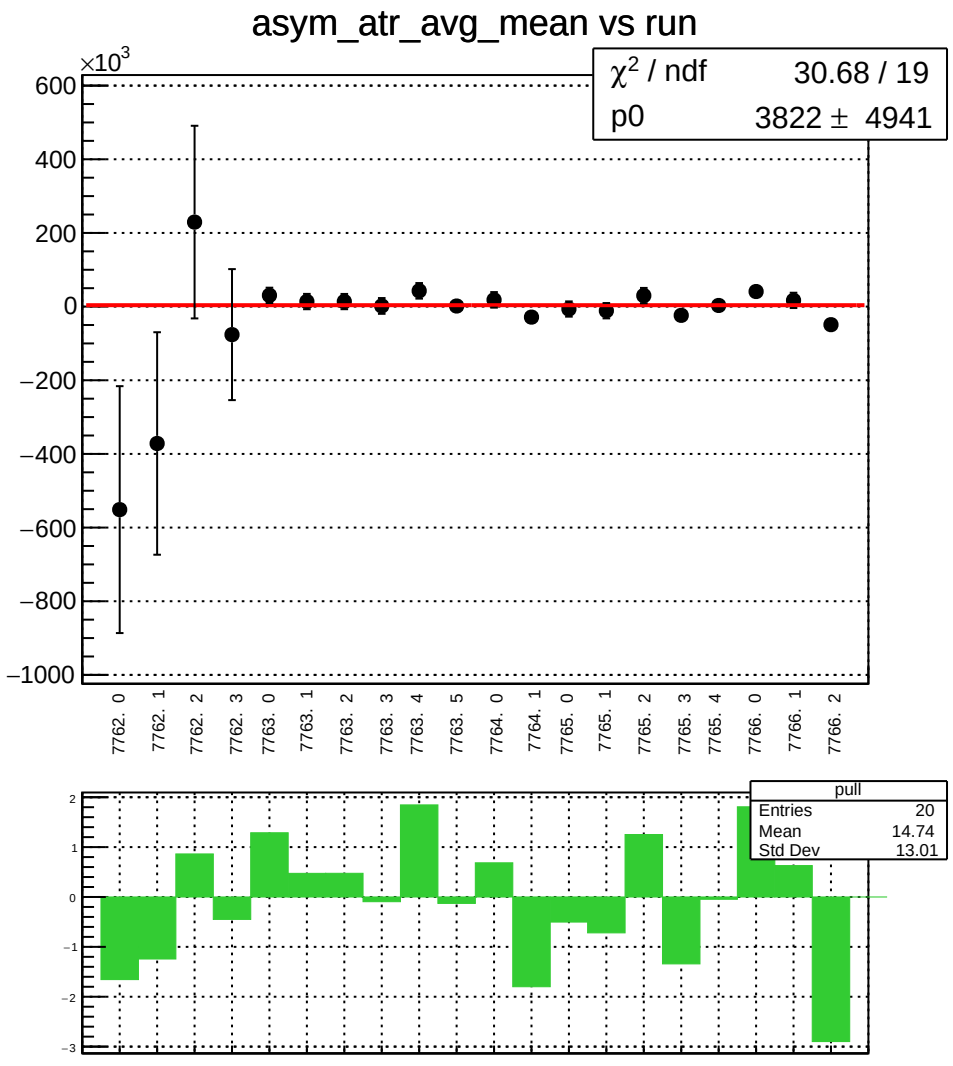

pull1D
Entries 20
Mean −0.08051
Std Dev 1.235
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

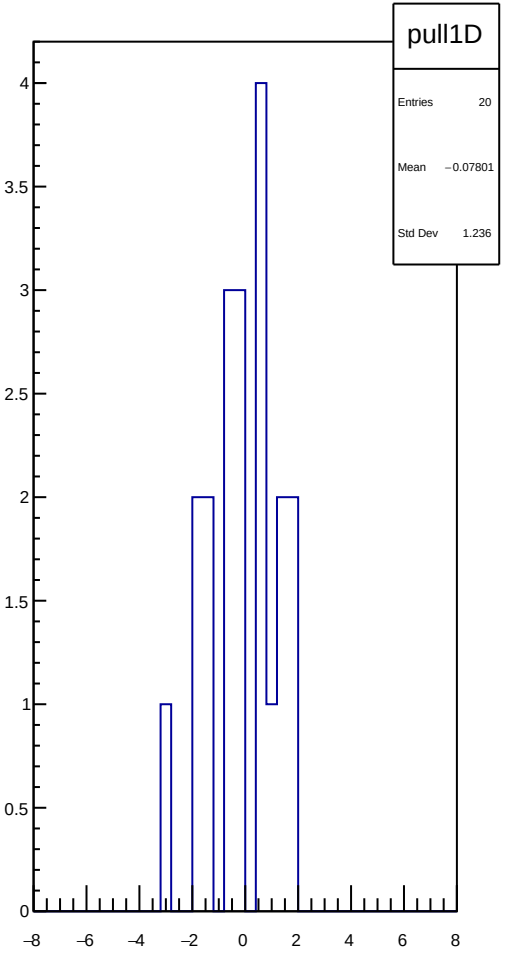

reg_asym_atr_avg_rms vs run
×10^3
800
700
600
500
400
300
200
100
χ² / ndf 1.299e+05 / 22
p0 2017 ± 3.493
7760. 2
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

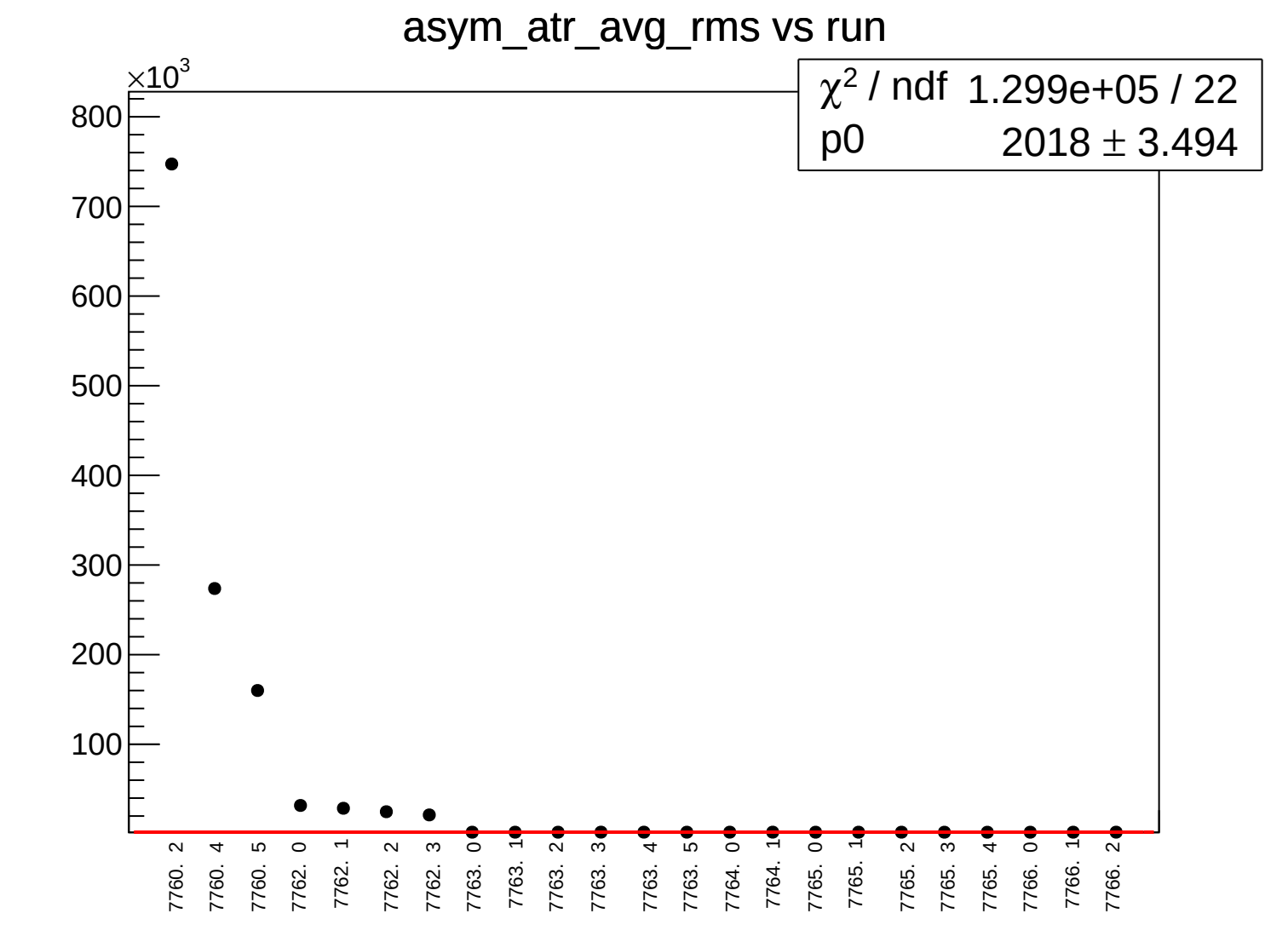

asym_atr_avg_correction_mean vs run
χ² / ndf 36.57 / 23
p0 85.44 ± 109.9
×10³
600
400
200
0
−200
−400
−600
−800
−1000
−1200
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 24
Mean 7.857
Std Dev 10.55
2
1
0
−1
−2
−3

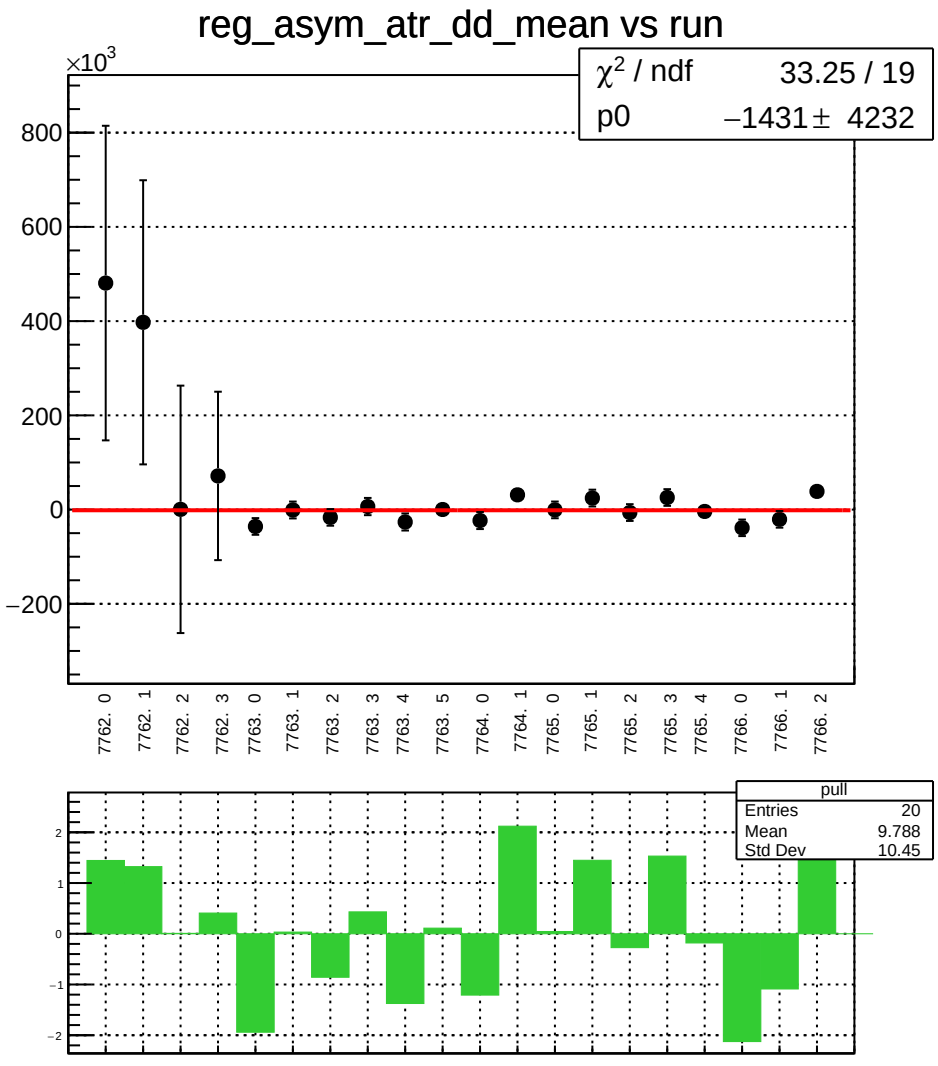

pull1D
Entries 24
Mean −0.07547
Std Dev 1.232
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

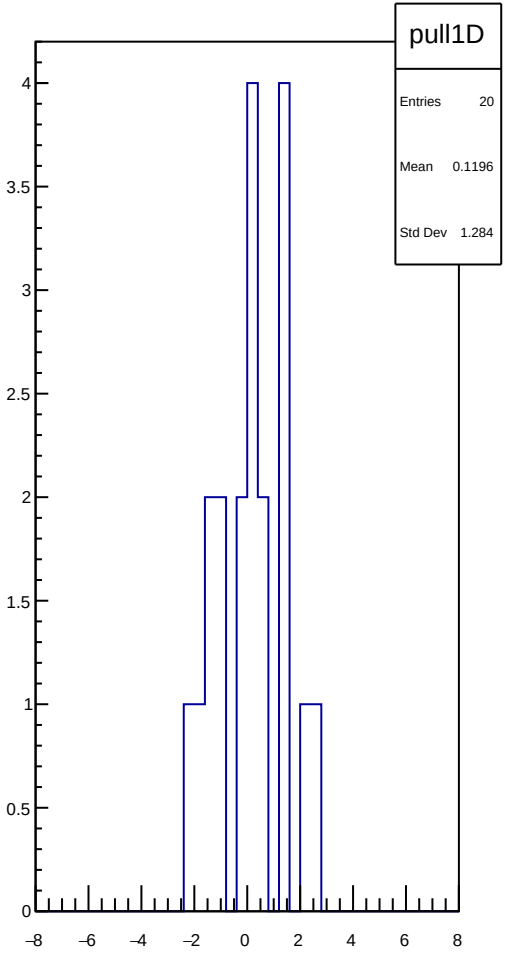

asym_atr_avg_correction_rms vs run
×10^3
140
120
100
80
60
40
20
χ² / ndf 1.956e+05 / 24
p0 42.86 ± 0.07775
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

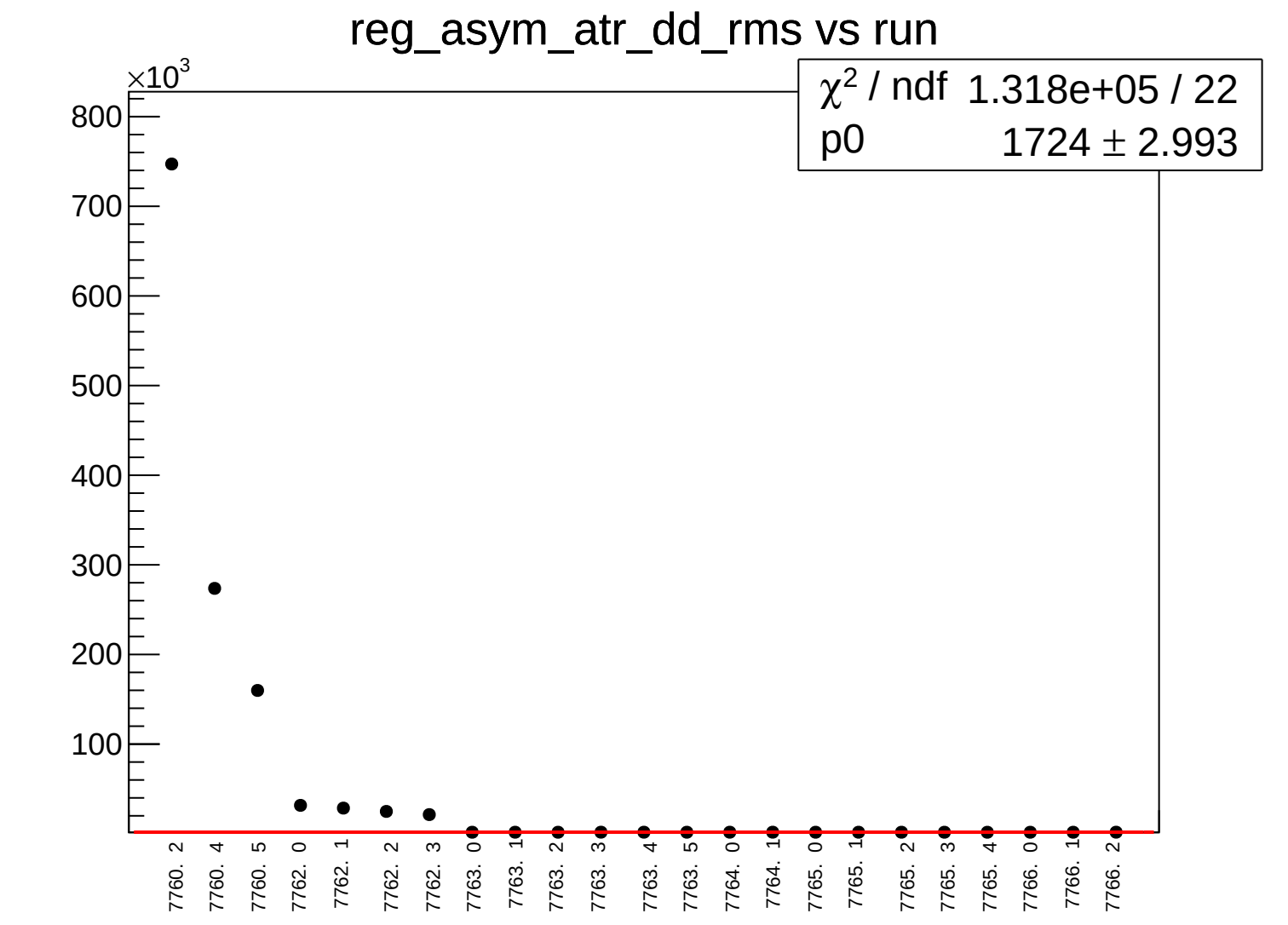

asym_atr_avg_mean vs run
×10^3
χ^2 / ndf 30.68 / 19
p0 3822 ± 4941
600
400
200
0
−200
−400
−600
−800
−1000
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 20
Mean 14.74
Std Dev 13.01
2
1
0
−1
−2
−3

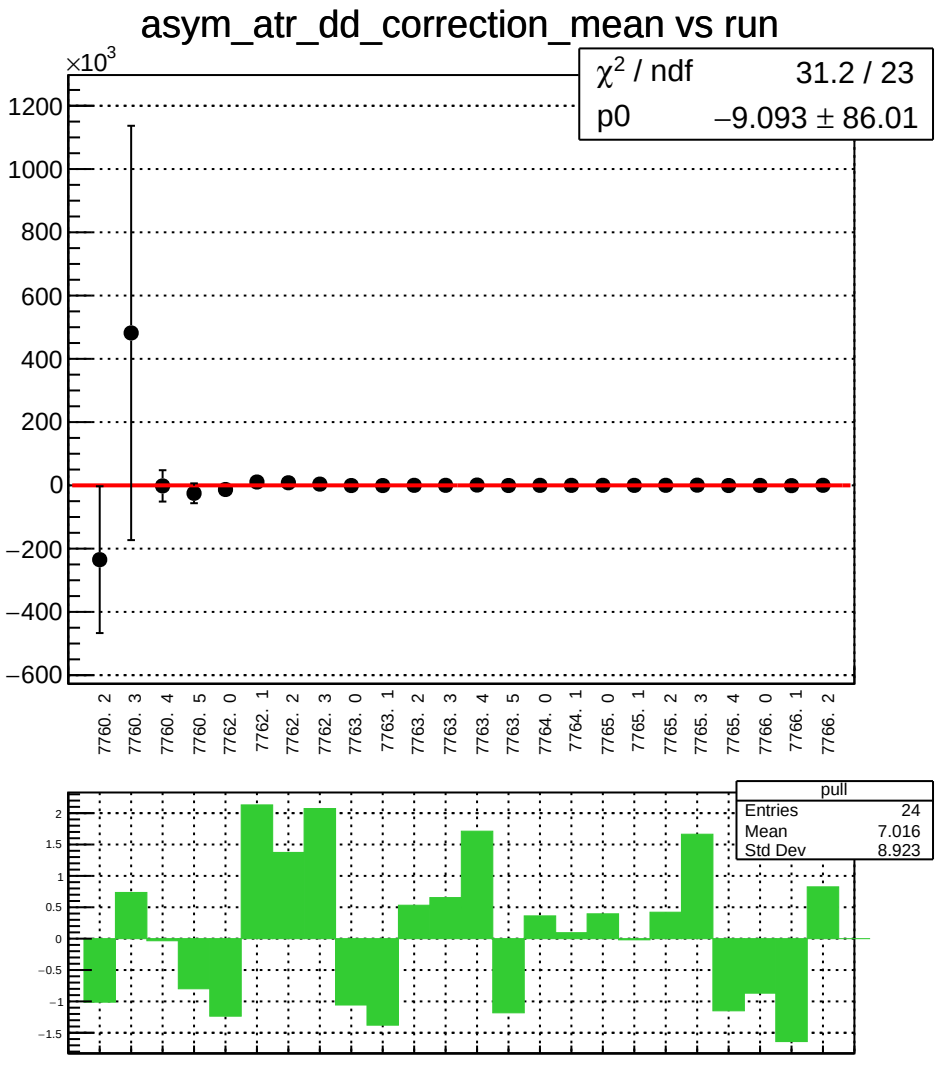

pull1D
Entries 20
Mean −0.07801
Std Dev 1.236
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

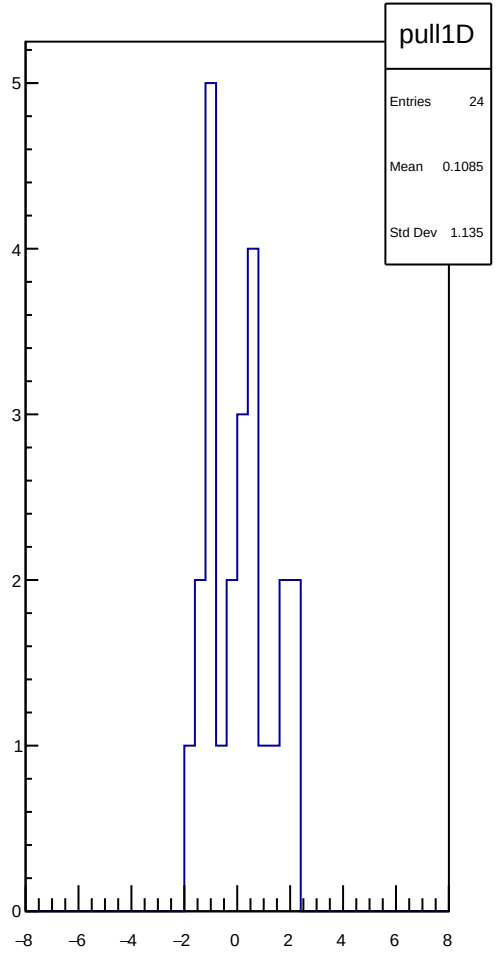

asym_atr_avg_rms vs run
×10^3
800
700
600
500
400
300
200
100
χ² / ndf 1.299e+05 / 22
p0 2018 ± 3.494
7760. 2
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

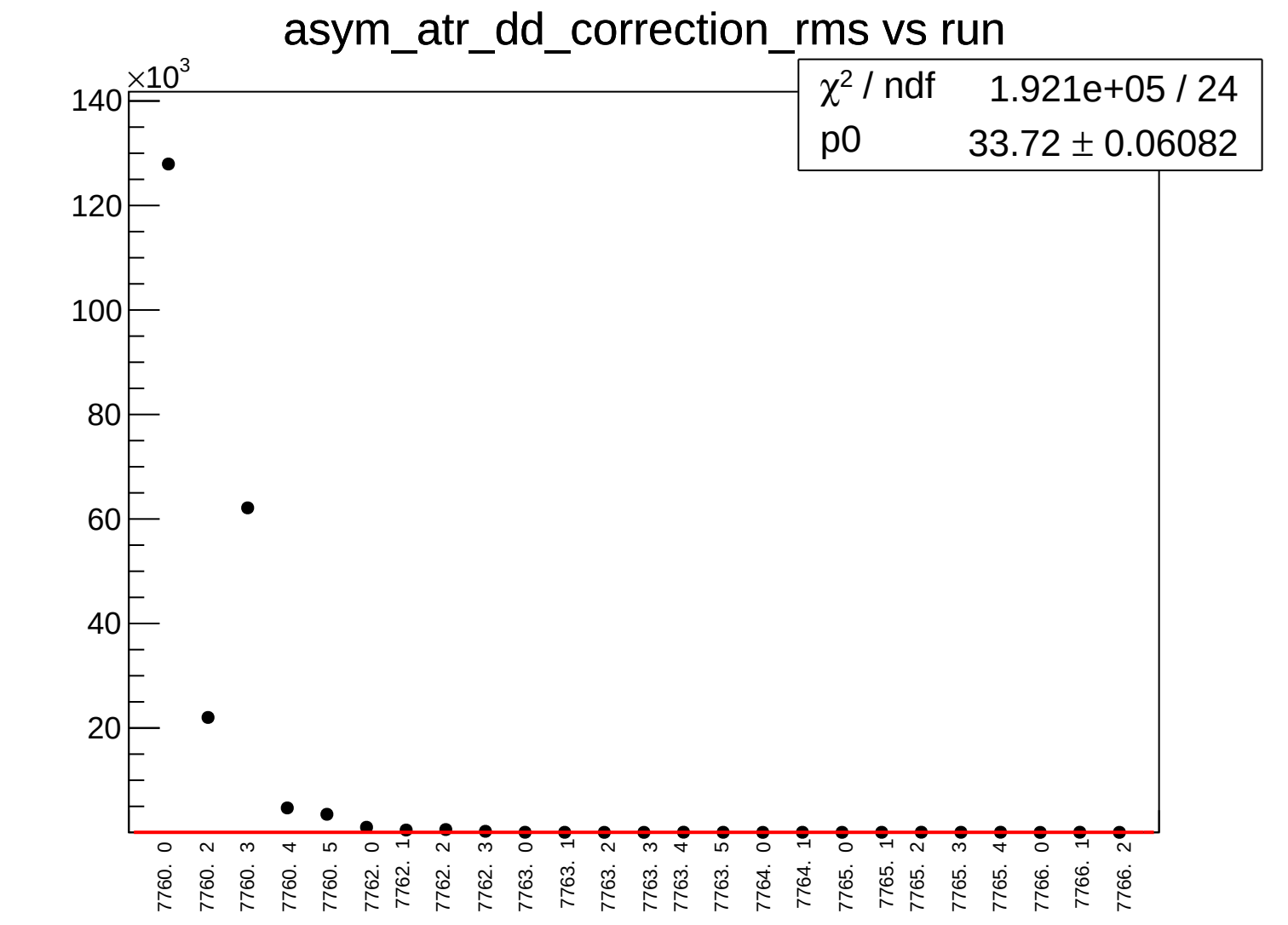

reg_asym_atr_dd_mean vs run
×10^3
χ^2 / ndf 33.25 / 19
p0 −1431 ± 4232
800
600
400
200
0
−200
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 20
Mean 9.788
Std Dev 10.45
2
1
0
−1
−2

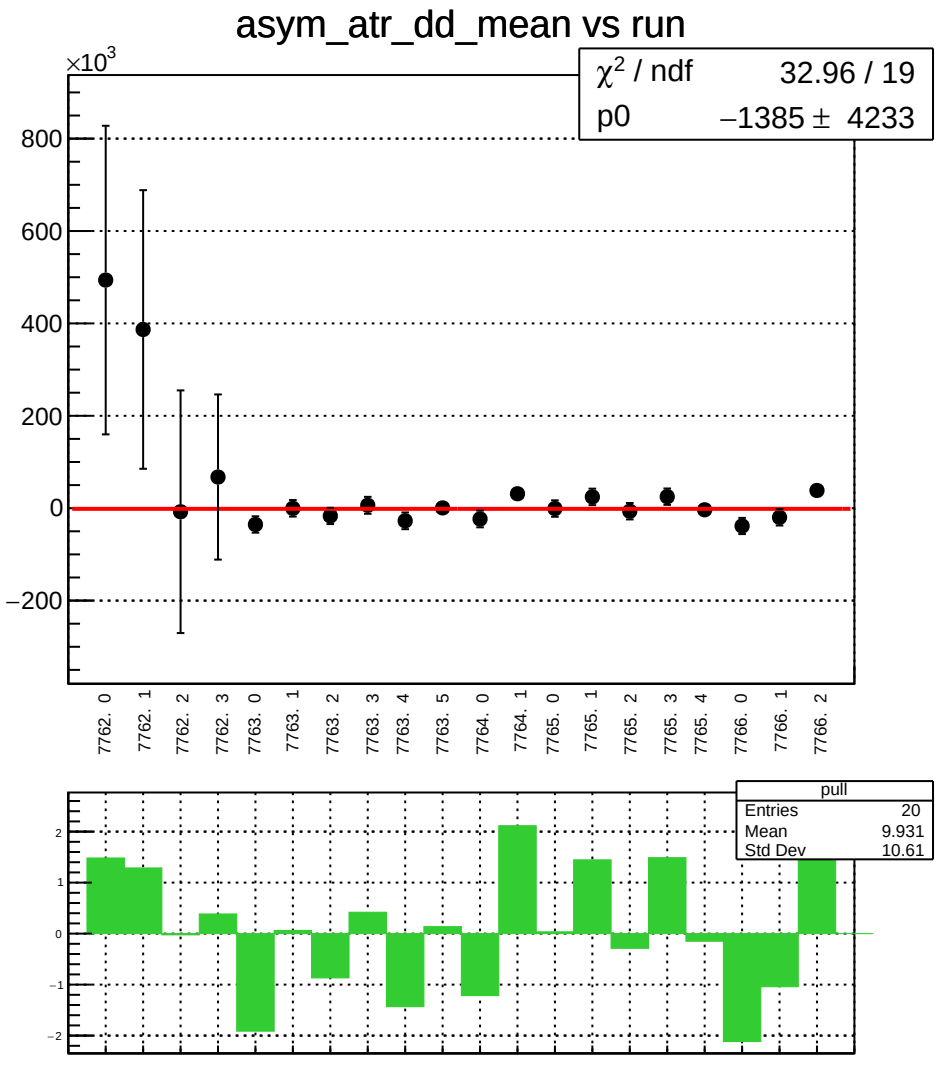

pull1D
Entries 20
Mean 0.1196
Std Dev 1.284
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

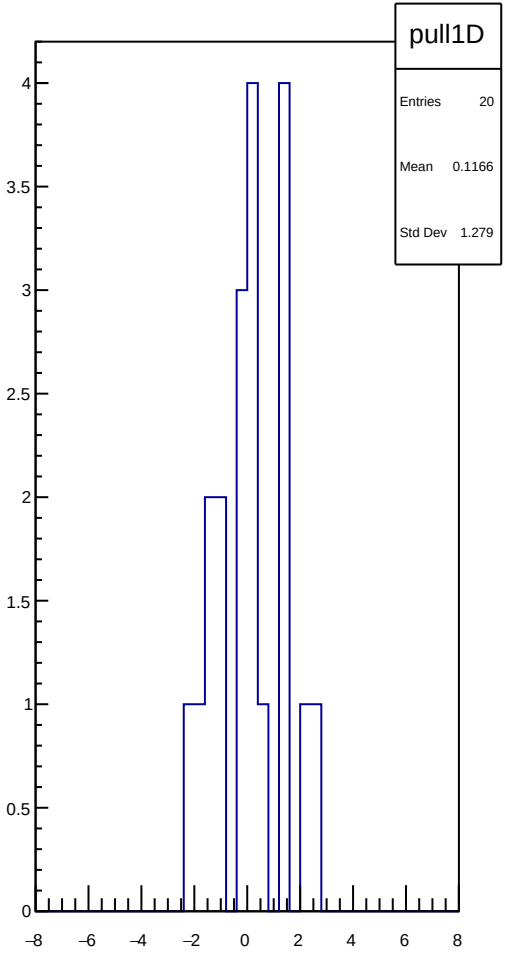

reg_asym_atr_dd_rms vs run
×10^3
800
700
600
500
400
300
200
100
χ² / ndf 1.318e+05 / 22
p0 1724 ± 2.993
7760. 2
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

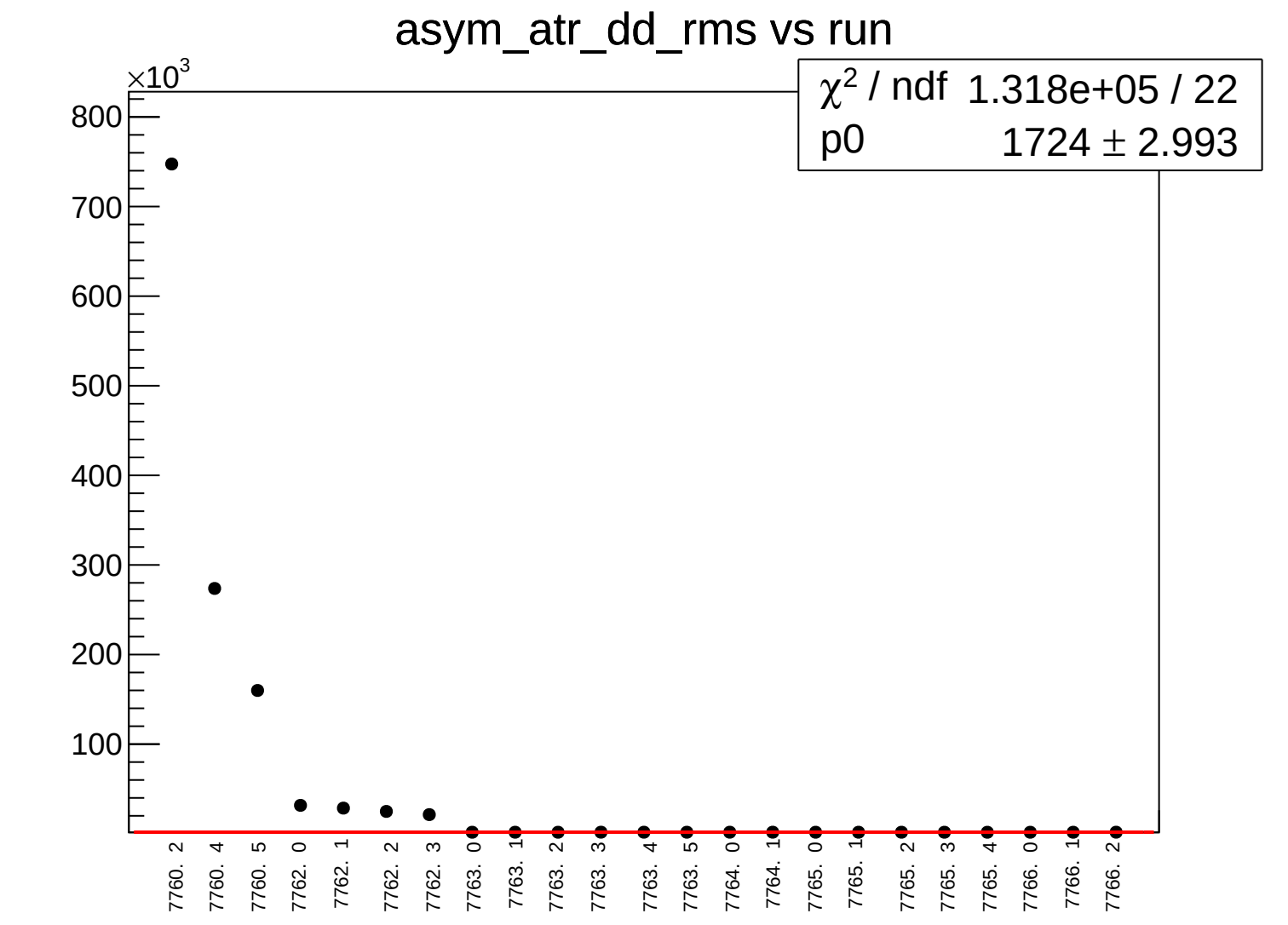

asym_atr_dd_correction_mean vs run
×10^3
χ^2 / ndf 31.2 / 23
p0 −9.093 ± 86.01
1200
1000
800
600
400
200
0
−200
−400
−600
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 24
Mean 7.016
Std Dev 8.923
2
1.5
1
0.5
0
−0.5
−1
−1.5

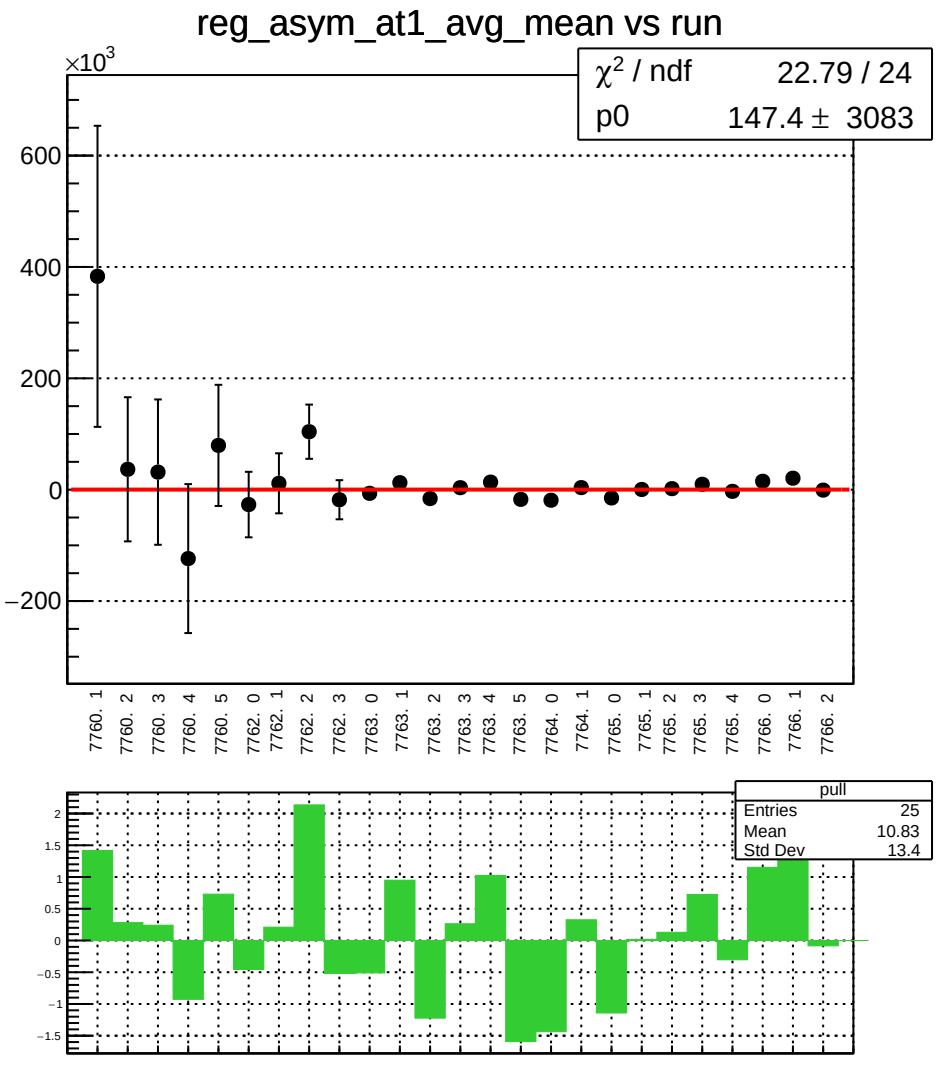

pull1D
Entries 24
Mean 0.1085
Std Dev 1.135
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

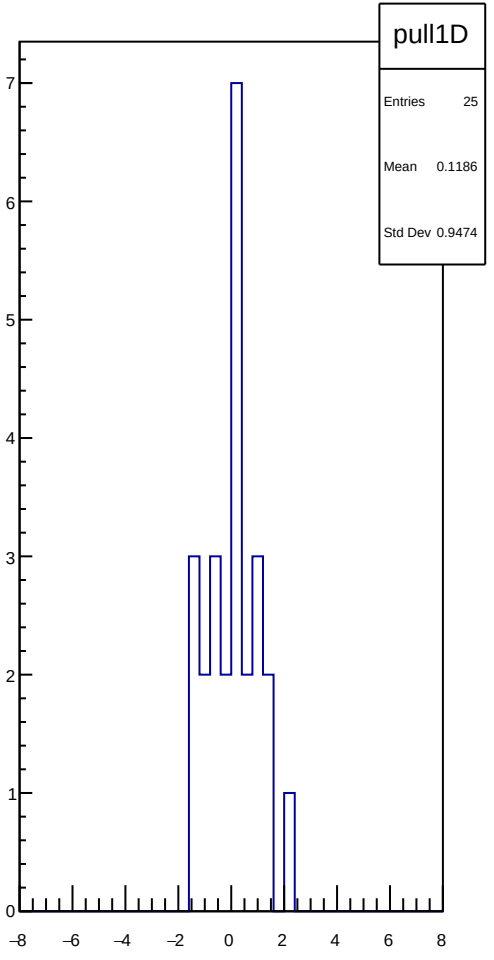

asym_atr_dd_correction_rms vs run
×10^3
140
120
100
80
60
40
20
χ² / ndf 1.921e+05 / 24
p0 33.72 ± 0.06082
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

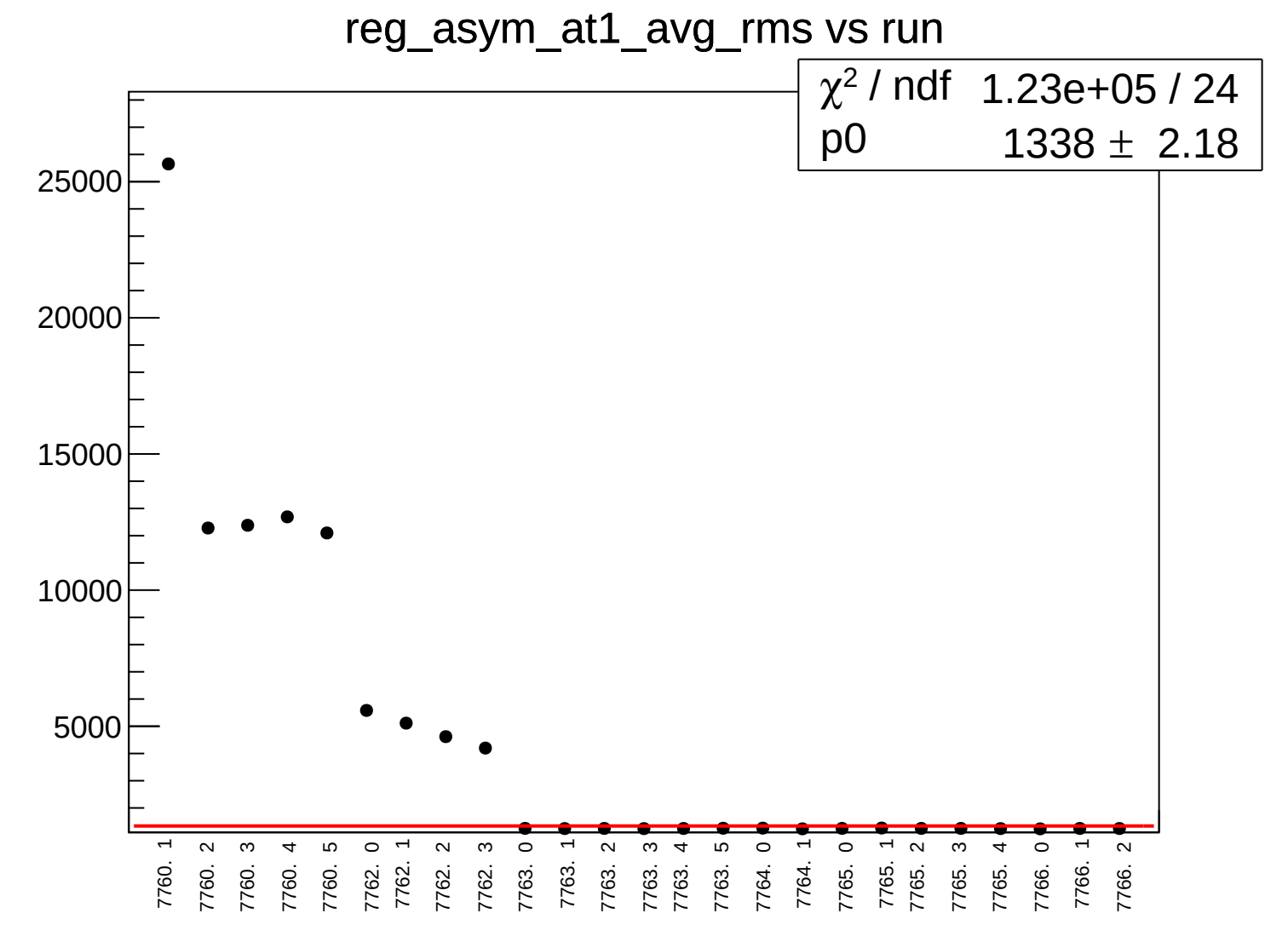

asym_atr_dd_mean vs run
×10^3
χ^2 / ndf 32.96 / 19
p0 −1385 ± 4233
800
600
400
200
0
−200
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 20
Mean 9.931
Std Dev 10.61
2
1
0
−1
−2

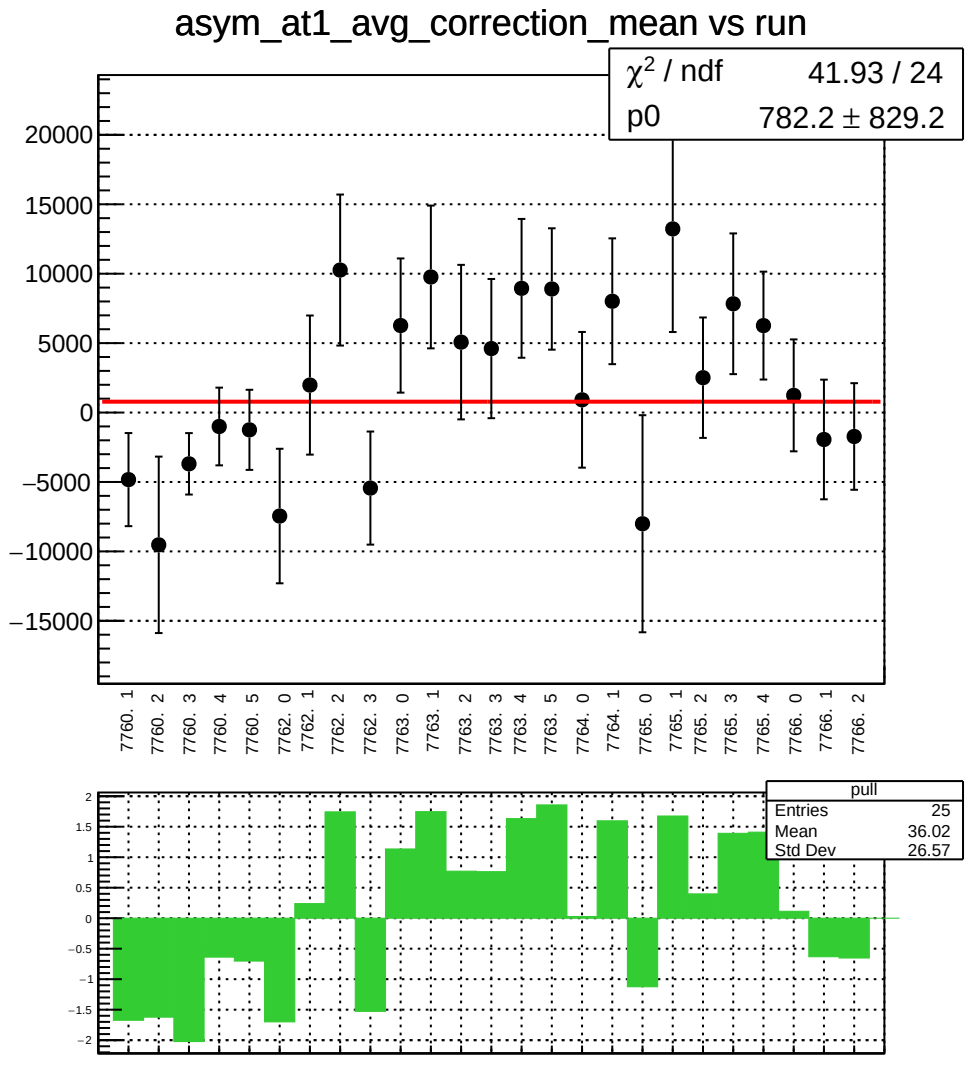

pull1D
Entries 20
Mean 0.1166
Std Dev 1.279
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

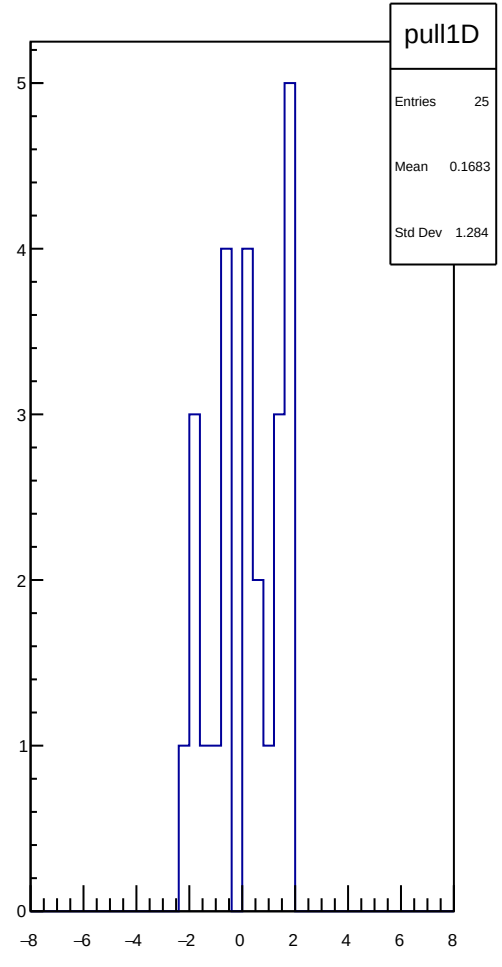

asym_atr_dd_rms vs run
×10^3
800
700
600
500
400
300
200
100
χ² / ndf 1.318e+05 / 22
p0 1724 ± 2.993
17760. 2
17760. 4
17760. 5
17762. 0
17762. 1
17762. 2
17762. 3
17763. 0
17763. 1
17763. 2
17763. 3
17763. 4
17763. 5
17764. 0
17764. 1
17765. 0
17765. 1
17765. 2
17765. 3
17765. 4
17766. 0
17766. 1
17766. 2

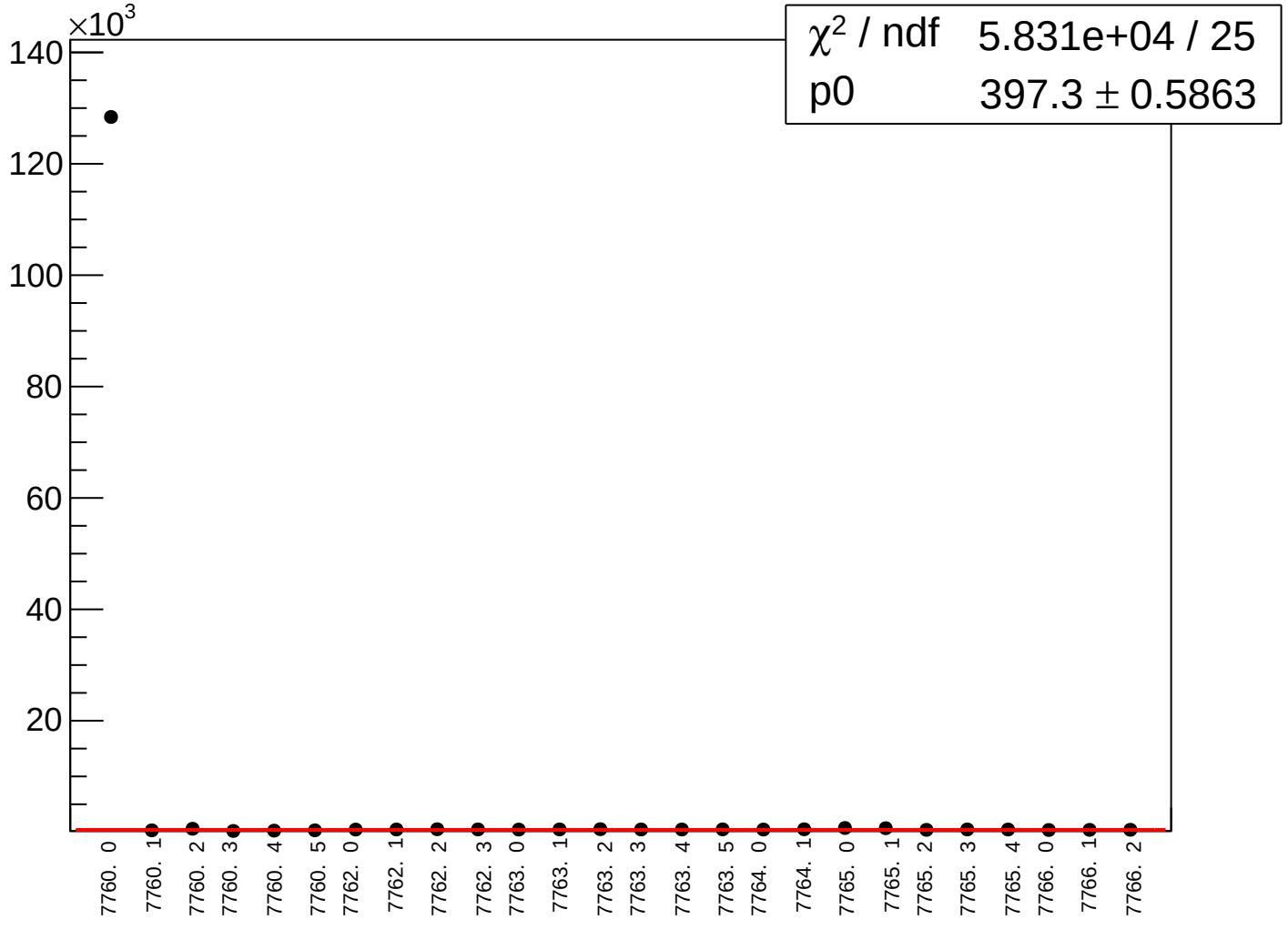

reg_asym_at1_avg_mean vs run
×10^3
χ^2 / ndf 22.79 / 24
p0 147.4 ± 3083
600
400
200
0
−200
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 10.83
Std Dev 13.4
2
1.5
1
0.5
0
−0.5
−1
−1.5

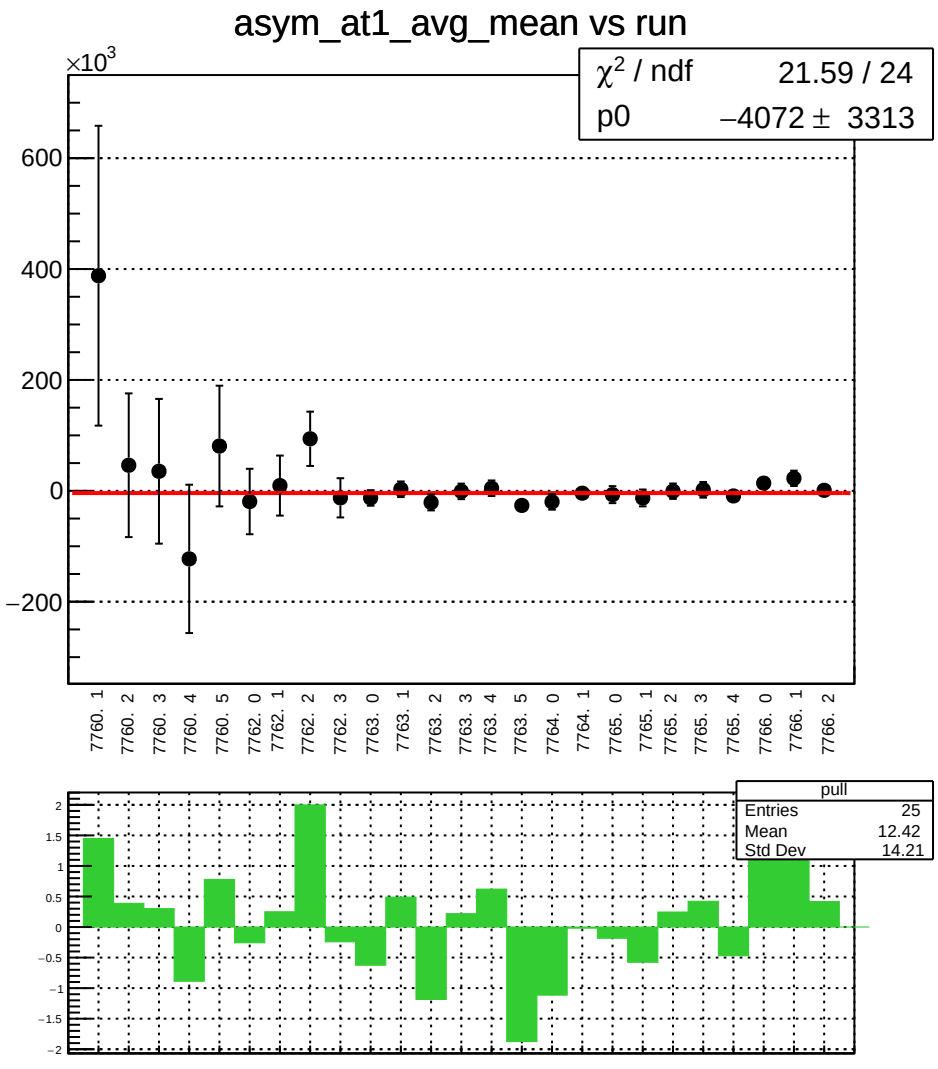

pull1D
Entries 25
Mean 0.1186
Std Dev 0.9474
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

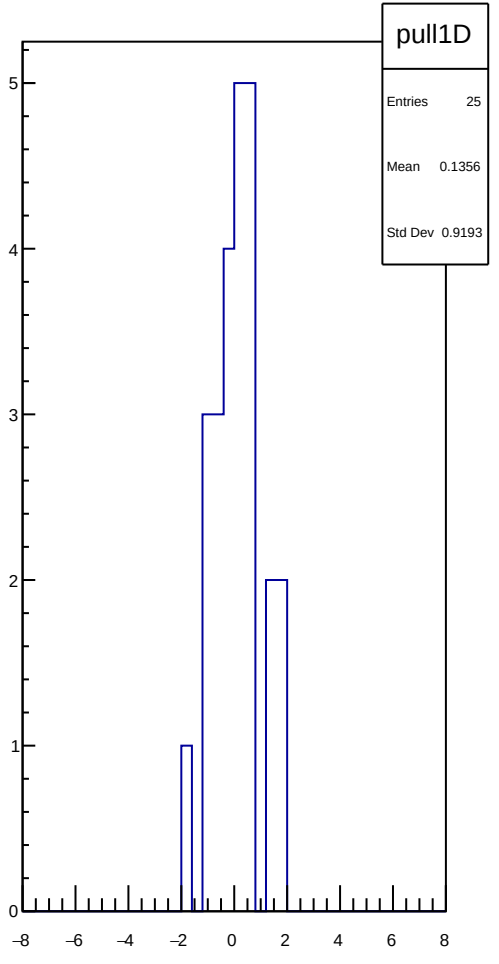

reg_asym_at1_avg_rms vs run
χ² / ndf 1.23e+05 / 24
p0 1338 ± 2.18
25000
20000
15000
10000
5000
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

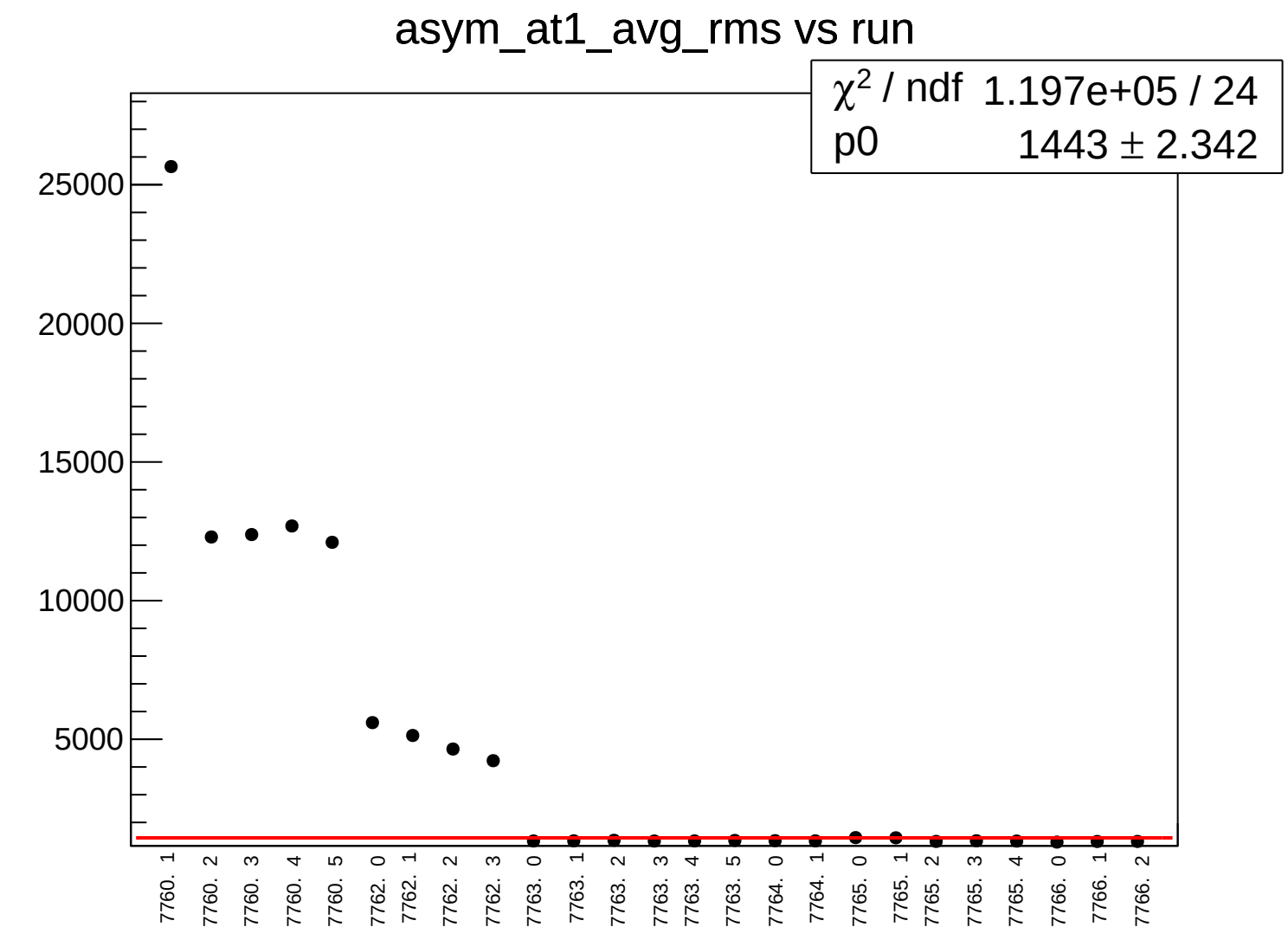

asym_at1_avg_correction_mean vs run
χ² / ndf 41.93 / 24
p0 782.2 ± 829.2
20000
15000
10000
5000
0
−5000
−10000
−15000
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 36.02
Std Dev 26.57
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

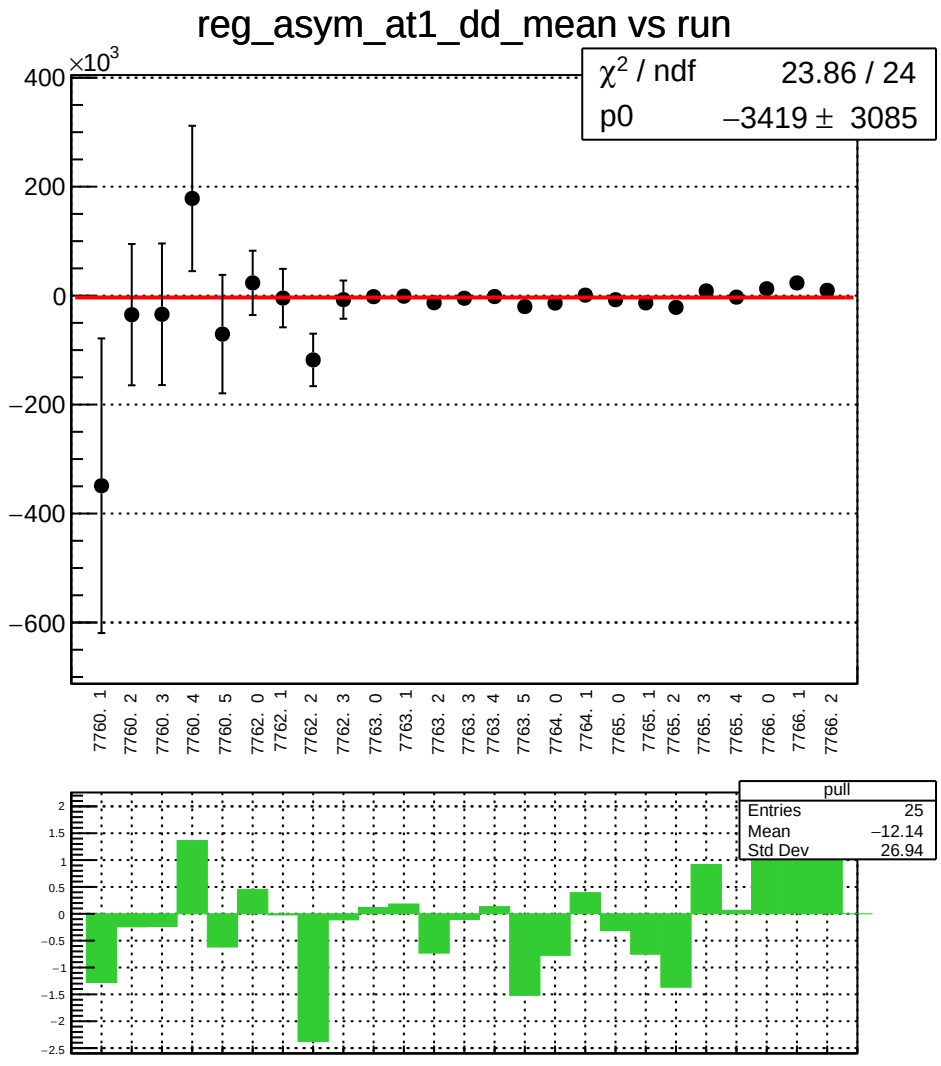

pull1D
Entries 25
Mean 0.1683
Std Dev 1.284
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

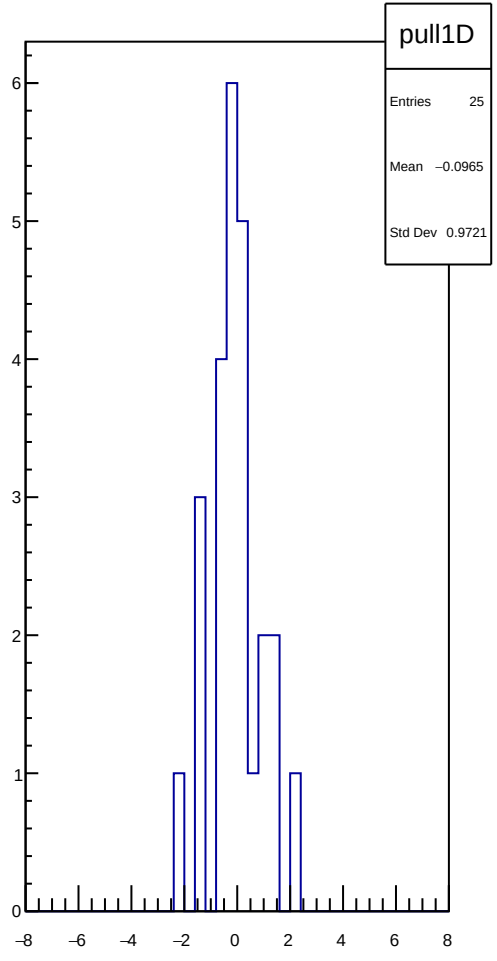

asym_at1_avg_correction_rms vs run
×10^3
140
120
100
80
60
40
20
χ² / ndf 5.831e+04 / 25
p0 397.3 ± 0.5863
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

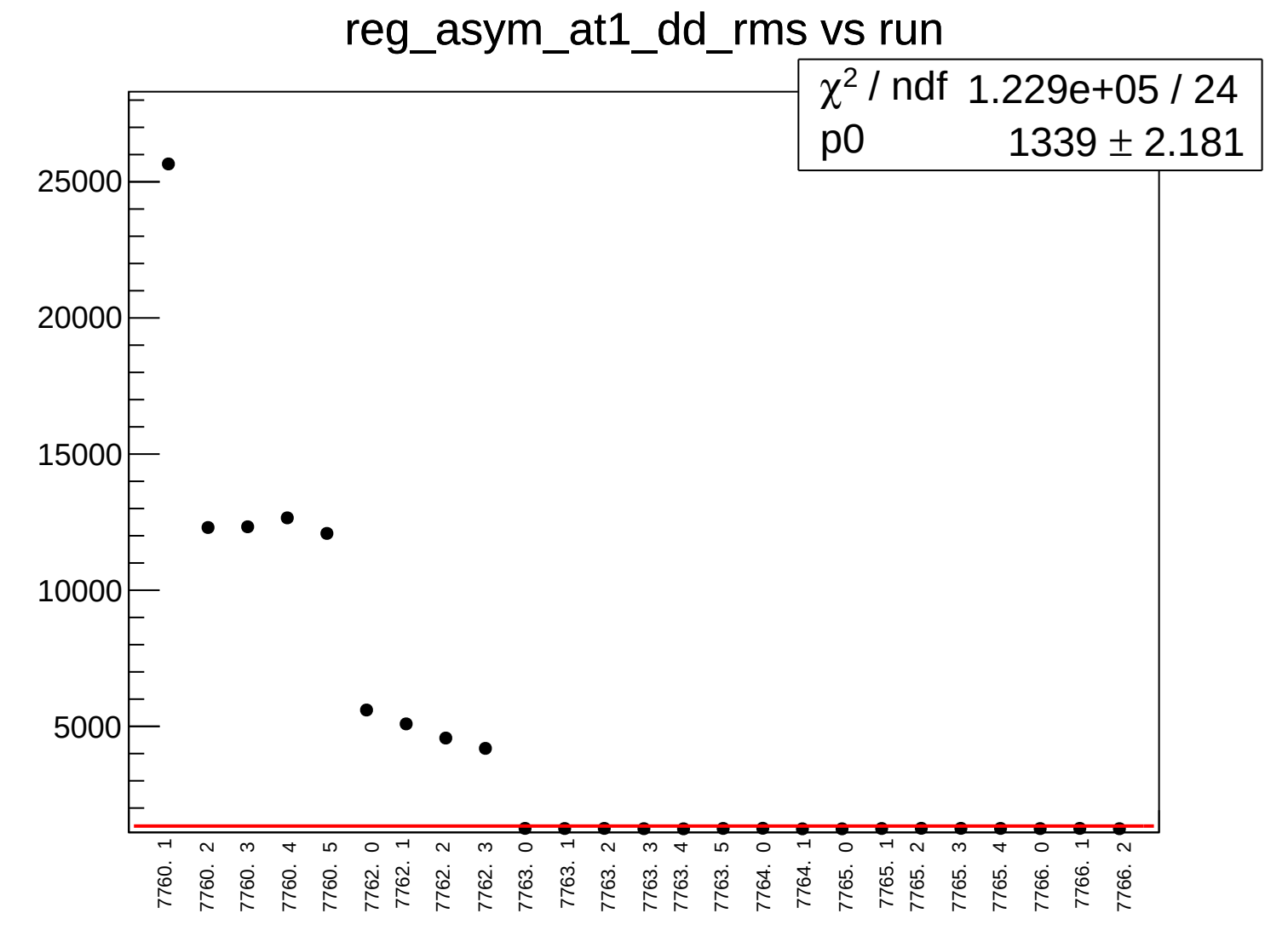

asym_at1_avg_mean vs run
×10^3
χ^2 / ndf 21.59 / 24
p0 −4072 ± 3313
600
400
200
0
−200
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 12.42
Std Dev 14.21
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

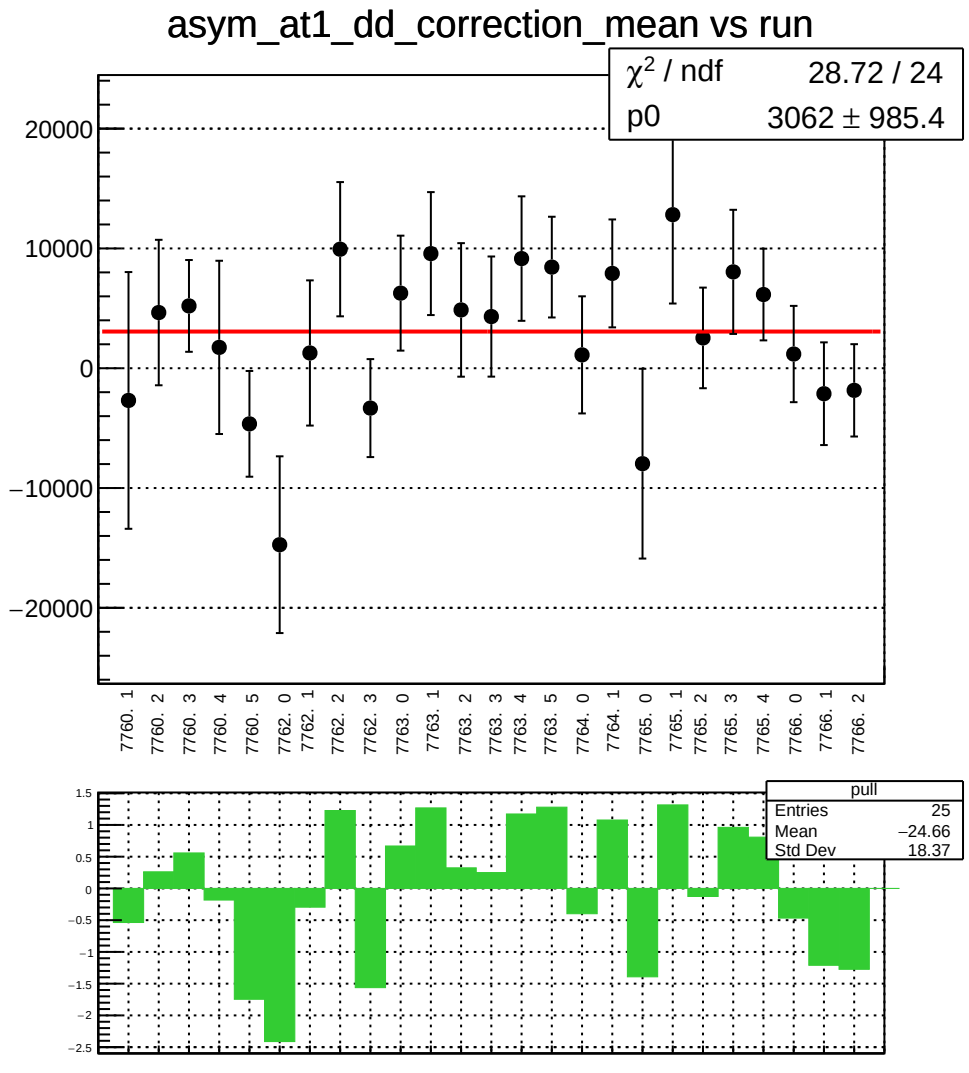

pull1D
Entries 25
Mean 0.1356
Std Dev 0.9193
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

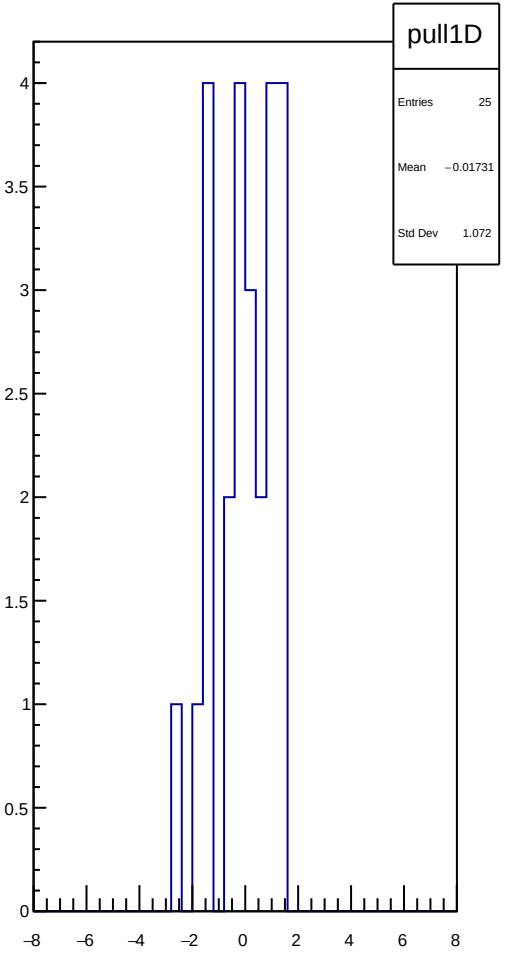

asym_at1_avg_rms vs run
χ² / ndf 1.197e+05 / 24
p0 1443 ± 2.342
25000
20000
15000
10000
5000
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

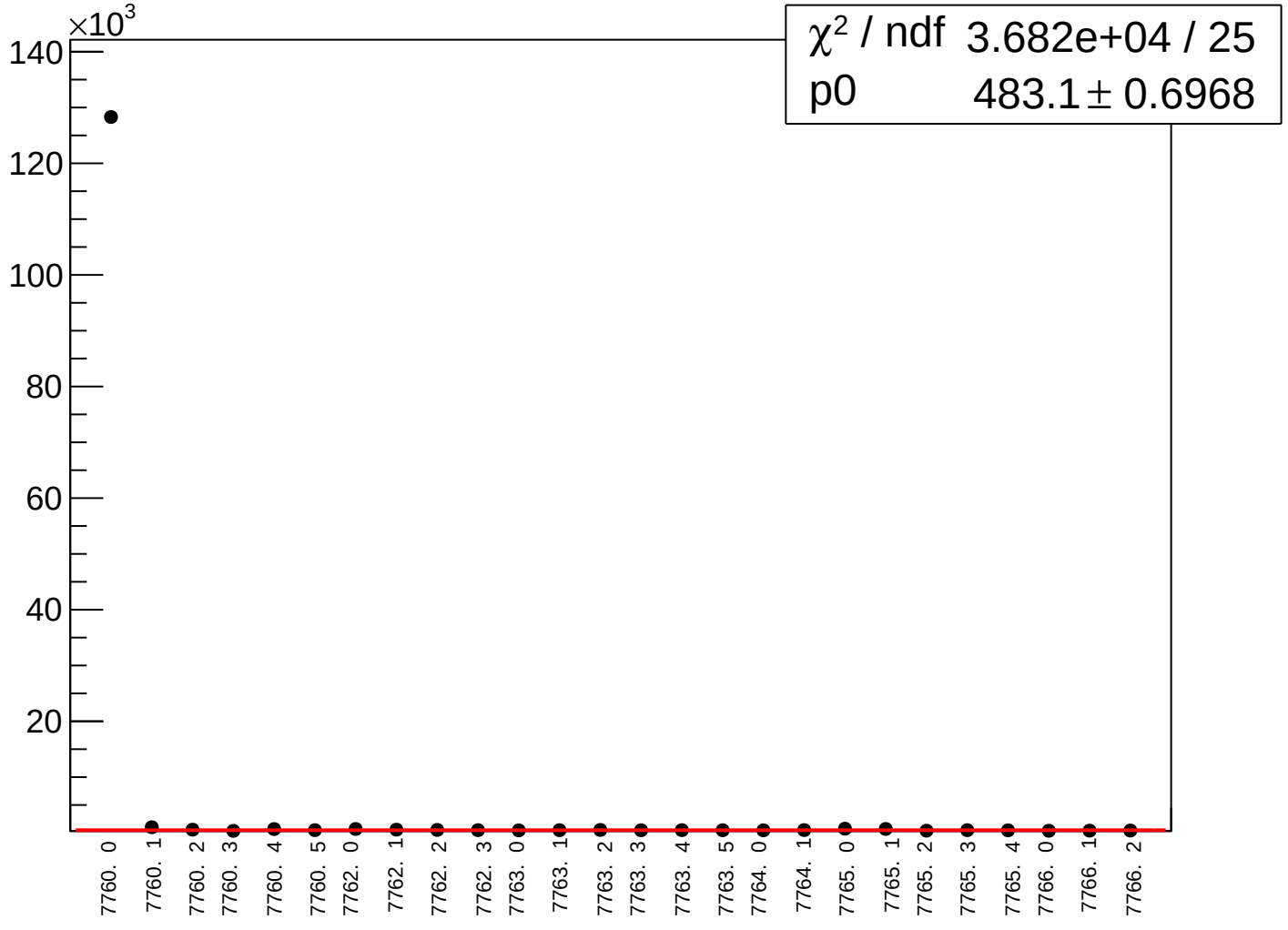

reg_asym_at1_dd_mean vs run
×10^3
400
200
0
−200
−400
−600
χ² / ndf 23.86 / 24
p0 −3419 ± 3085
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −12.14
Std Dev 26.94
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

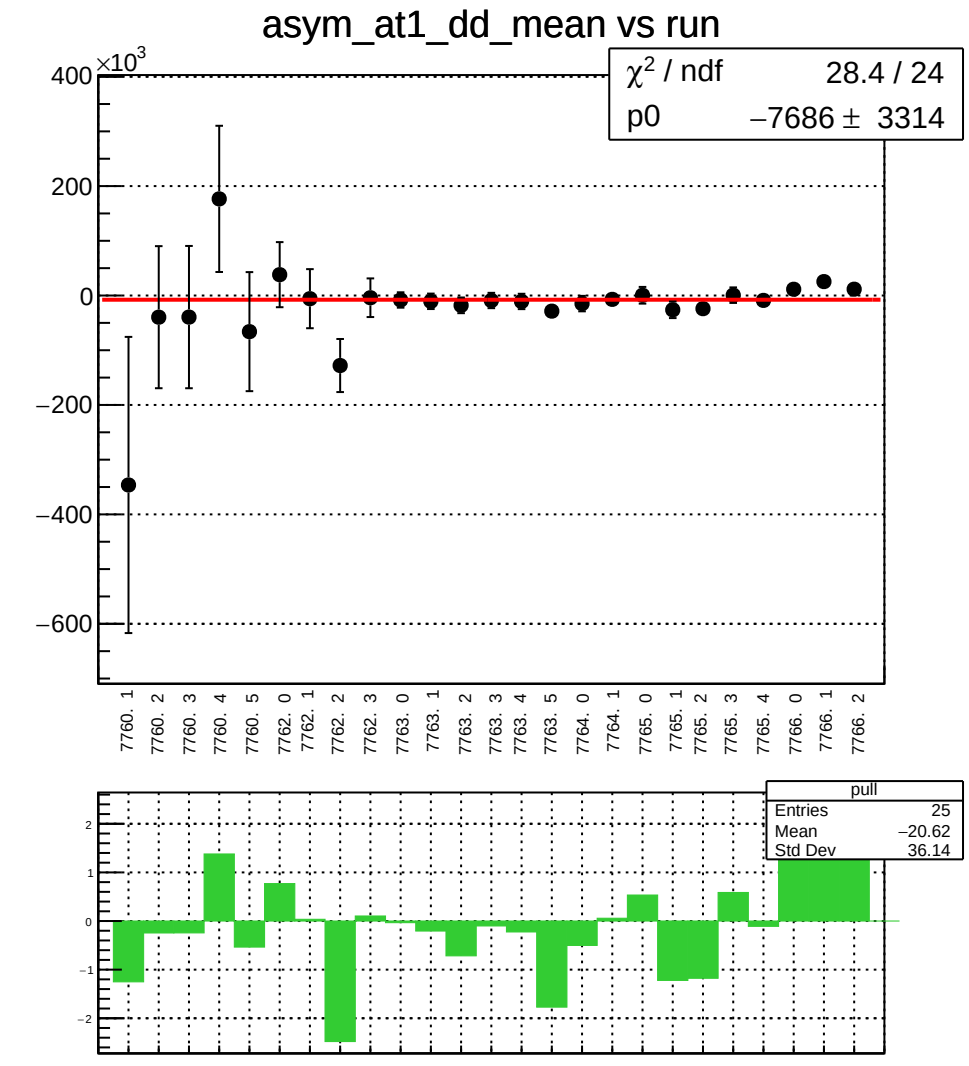

pull1D
Entries 25
Mean −0.0965
Std Dev 0.9721
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

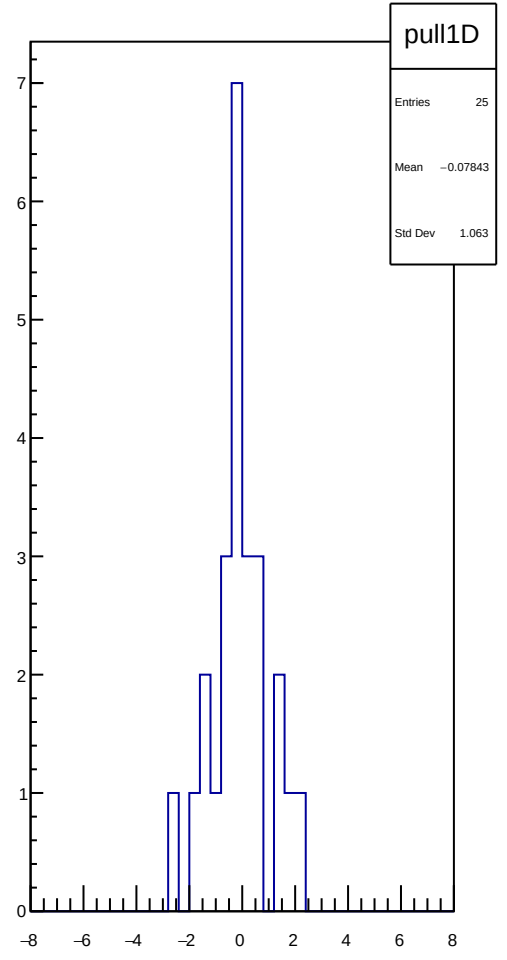

reg_asym_at1_dd_rms vs run
χ² / ndf 1.229e+05 / 24
p0 1339 ± 2.181
25000
20000
15000
10000
5000
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

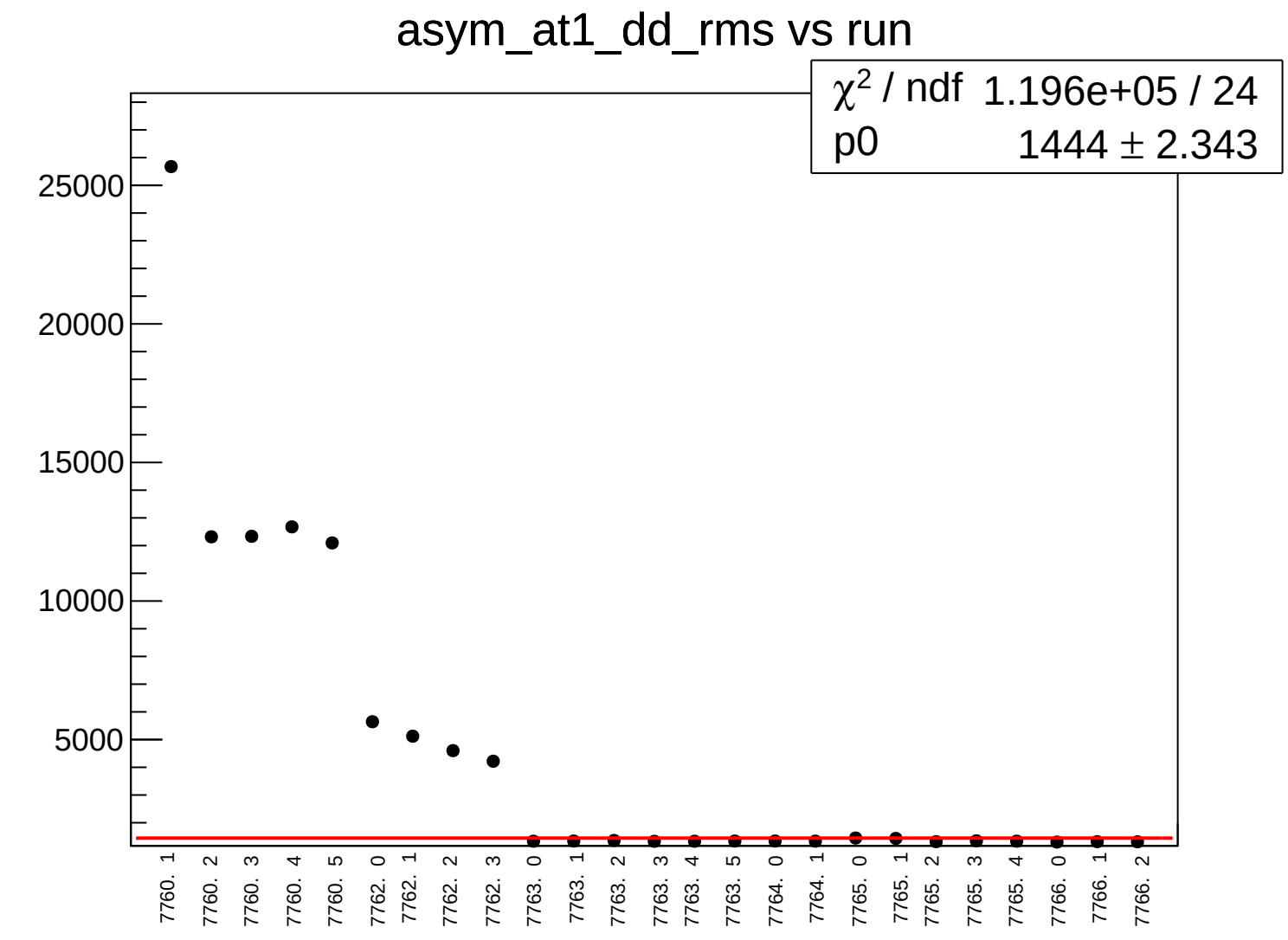

asym_at1_dd_correction_mean vs run
χ² / ndf 28.72 / 24
p0 3062 ± 985.4
20000
10000
0
−10000
−20000
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −24.66
Std Dev 18.37
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

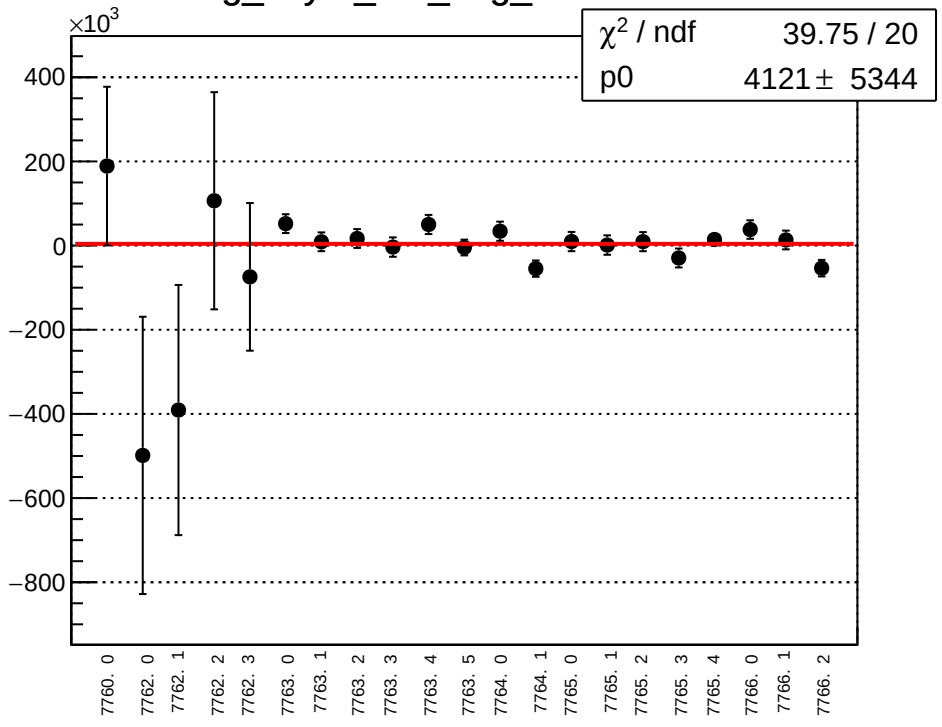

pull1D
Entries 25
Mean −0.01731
Std Dev 1.072
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

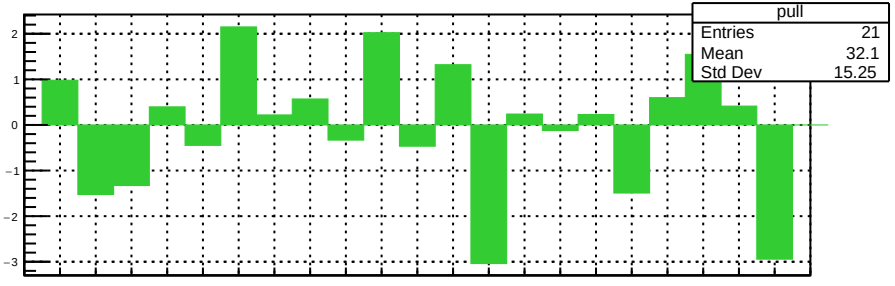

asym_at1_dd_correction_rms vs run
×10^3
140
120
100
80
60
40
20
χ² / ndf 3.682e+04 / 25
p0 483.1 ± 0.6968
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

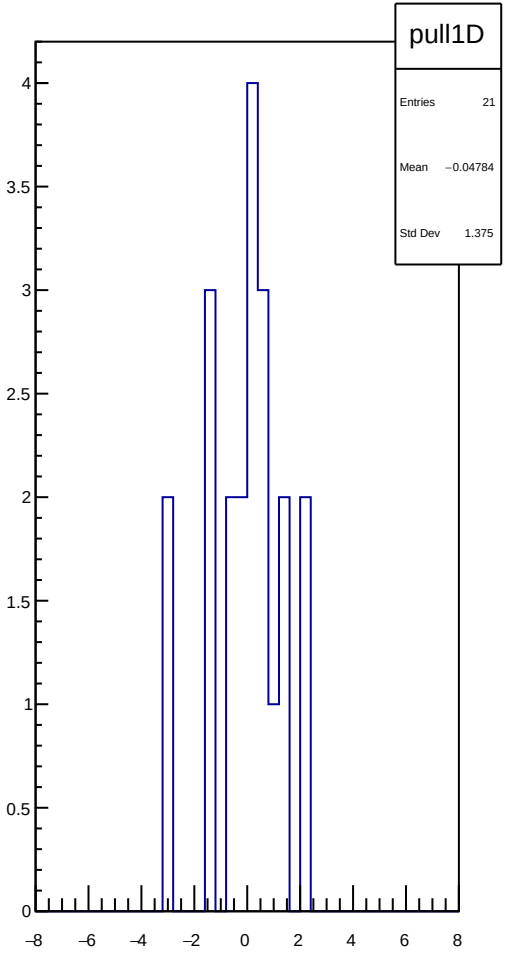

asym_at1_dd_mean vs run
χ² / ndf 28.4 / 24
p0 −7686 ± 3314
×10³
400
200
0
−200
−400
−600
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −20.62
Std Dev 36.14
2
1
0
−1
−2

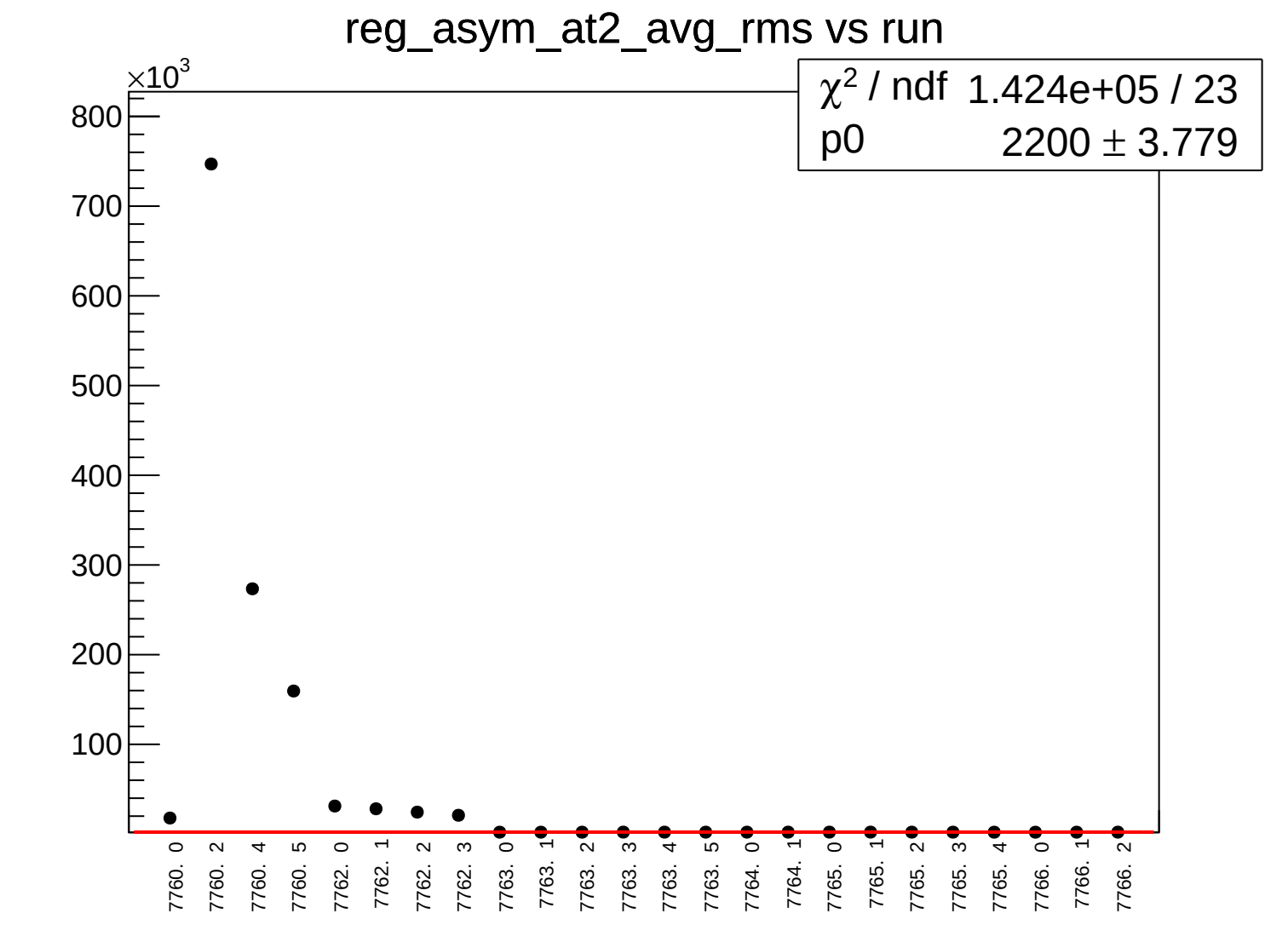

pull1D
Entries 25
Mean −0.07843
Std Dev 1.063
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

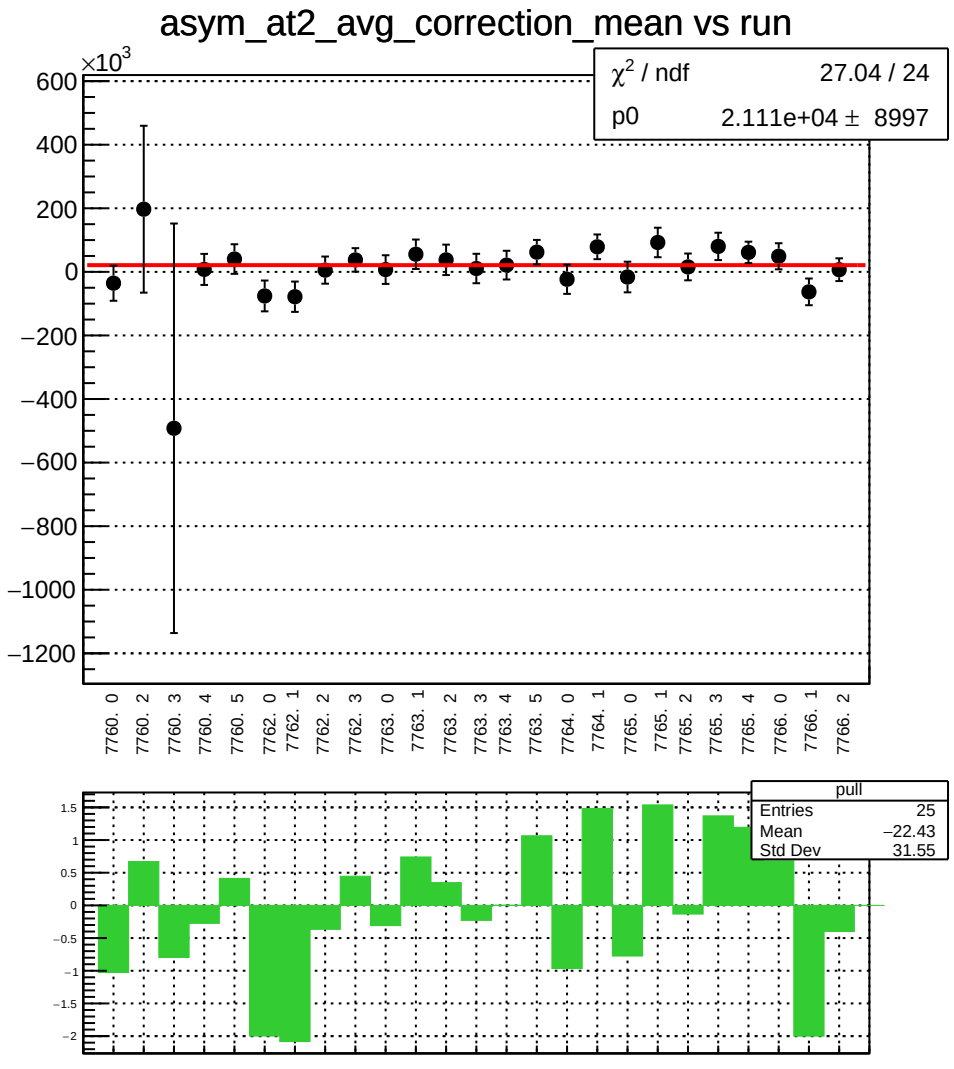

asym_at1_dd_rms vs run
χ² / ndf 1.196e+05 / 24
p0 1444 ± 2.343
25000
20000
15000
10000
5000
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

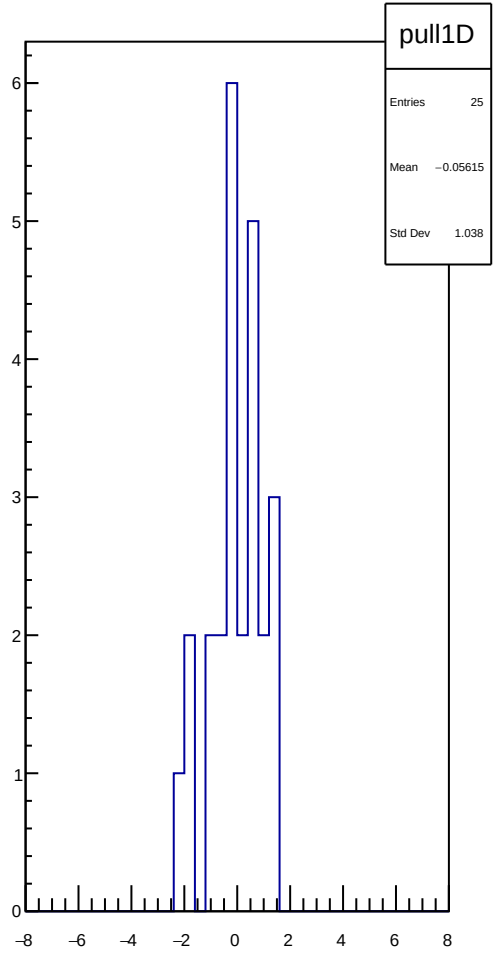

reg_asym_at2_avg_mean vs run
×10^3
χ^2 / ndf 39.75 / 20
p0 4121 ± 5344
400
200
0
−200
−400
−600
−800
7760. 0
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

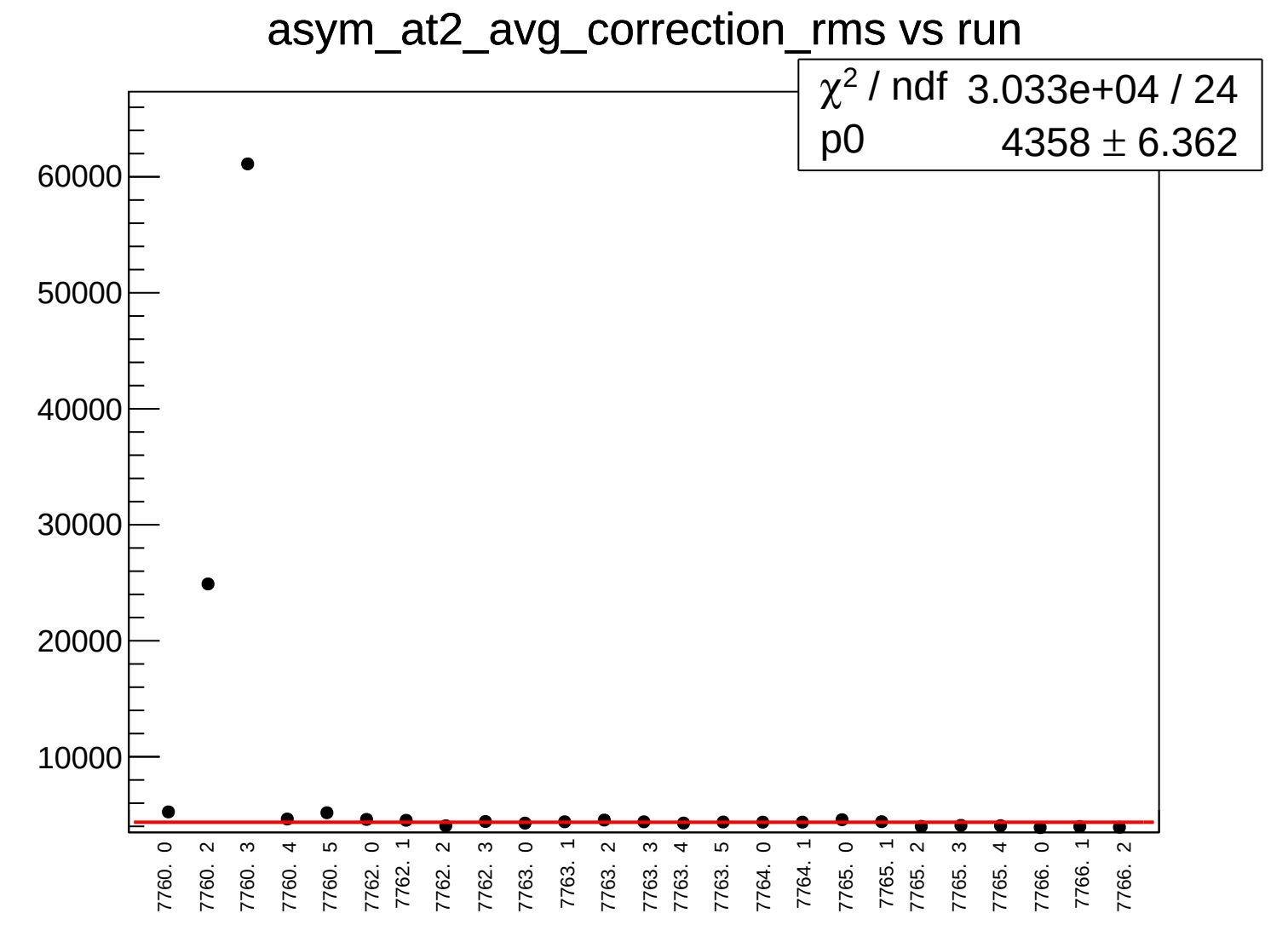

pull
Entries 21
Mean 32.1
Std Dev 15.25
2
1
0
−1
−2
−3

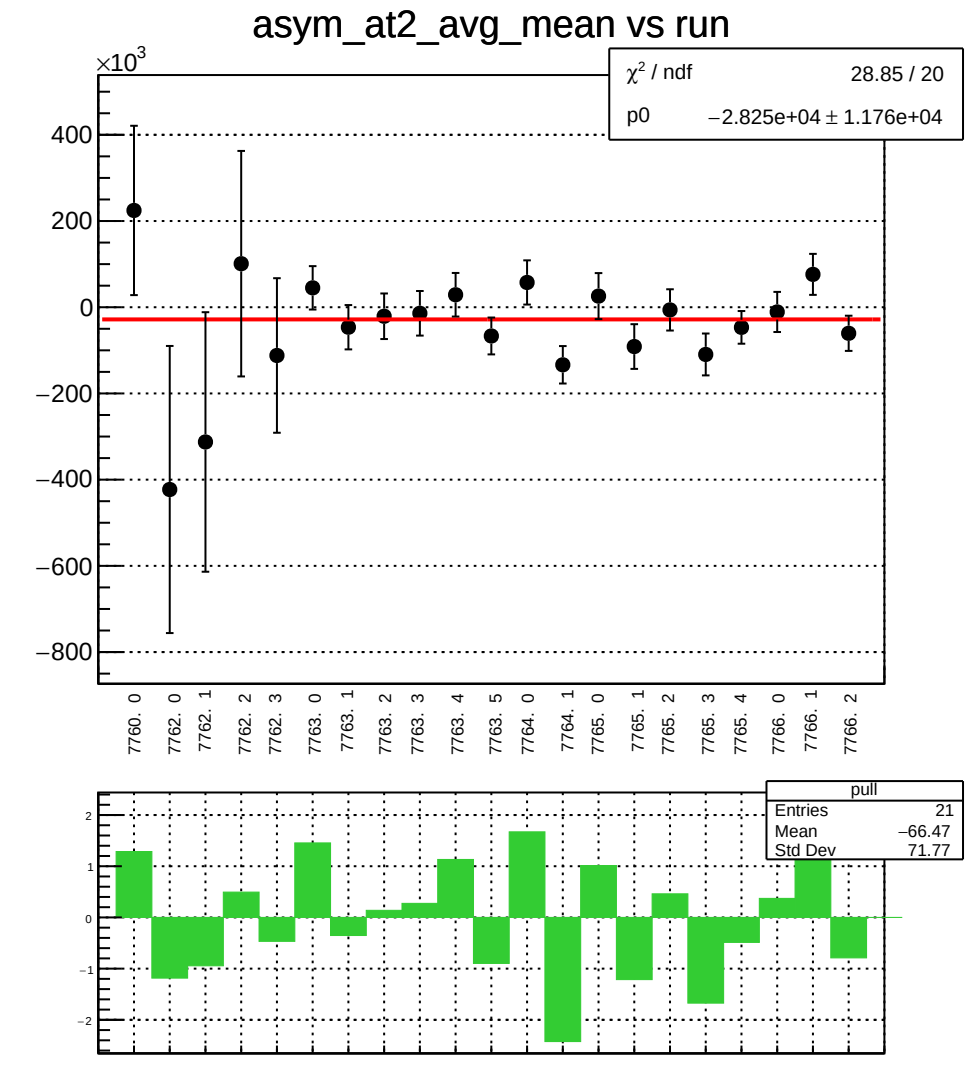

pull1D
Entries 21
Mean −0.04784
Std Dev 1.375
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

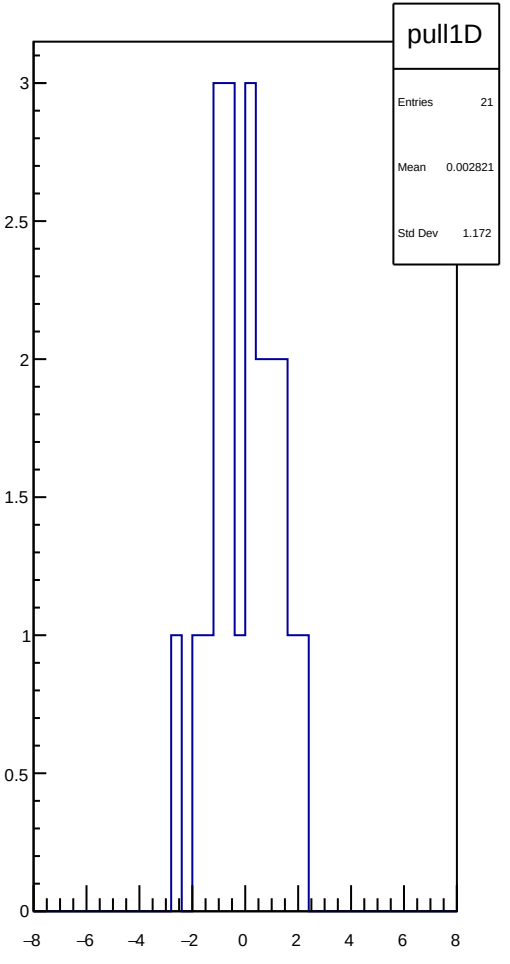

reg_asym_at2_avg_rms vs run
×10^3
800
700
600
500
400
300
200
100
χ² / ndf 1.424e+05 / 23
p0 2200 ± 3.779
7760. 0
7760. 2
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

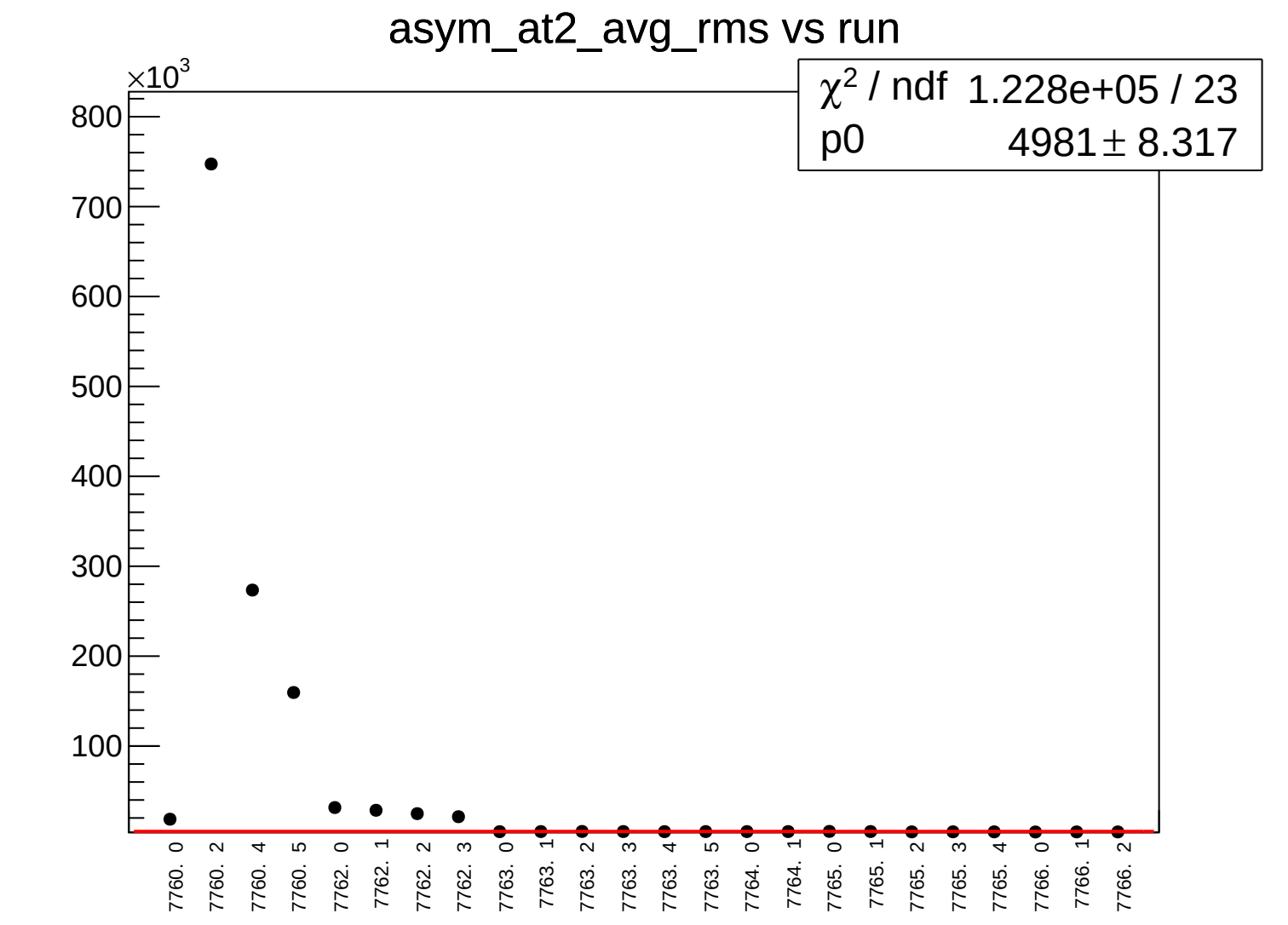

asym_at2_avg_correction_mean vs run
×10^3
χ² / ndf 27.04 / 24
p0 2.111e+04 ± 8997
600
400
200
0
−200
−400
−600
−800
−1000
−1200
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −22.43
Std Dev 31.55
1.5
1
0.5
0
−0.5
−1
−1.5
−2

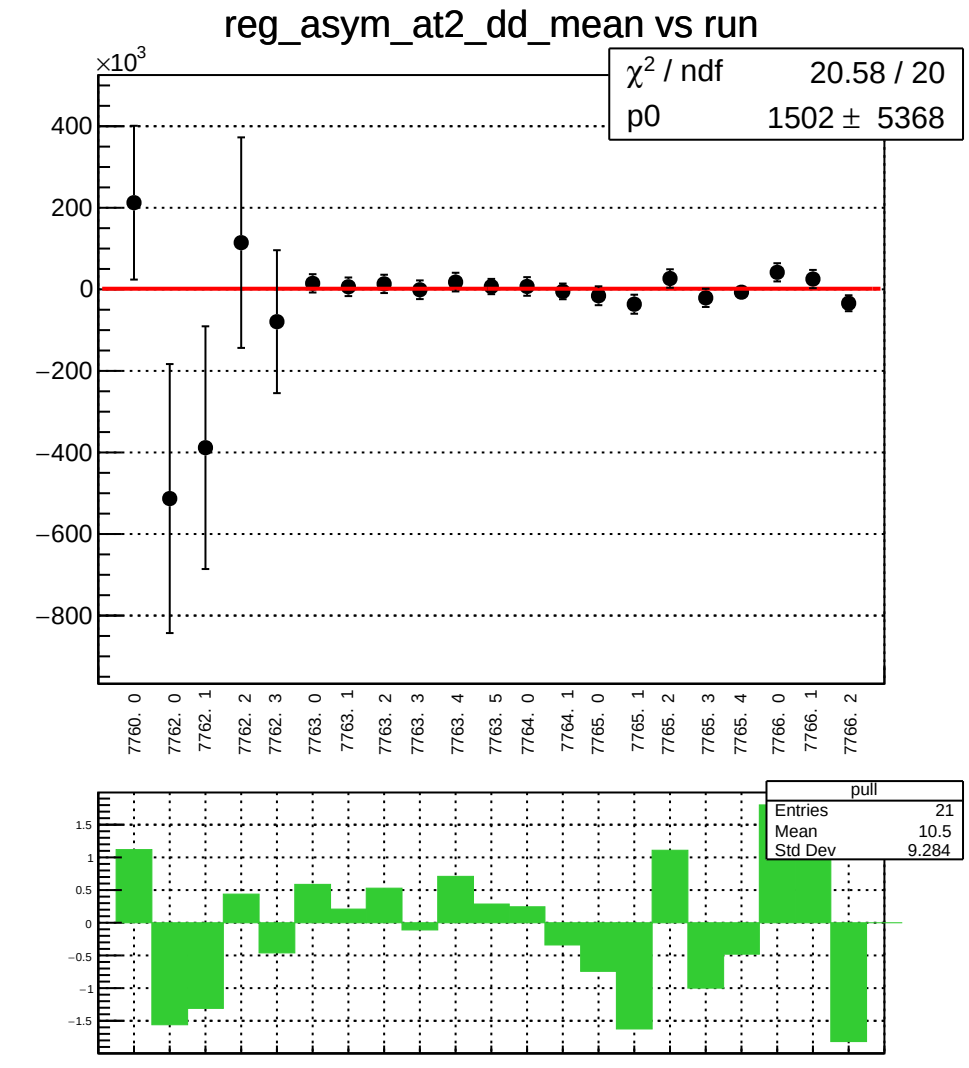

pull1D
Entries 25
Mean −0.05615
Std Dev 1.038
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

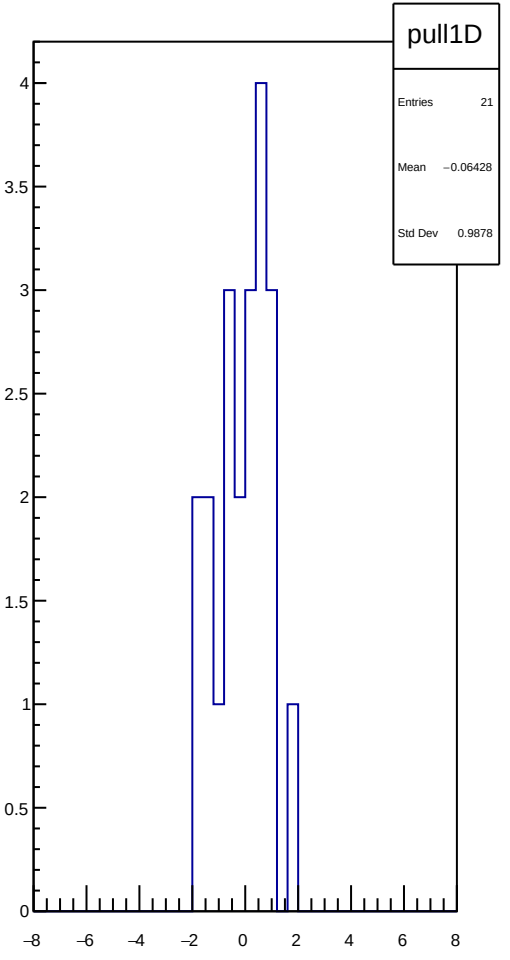

asym_at2_avg_correction_rms vs run
χ² / ndf 3.033e+04 / 24
p0 4358 ± 6.362
60000
50000
40000
30000
20000
10000
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

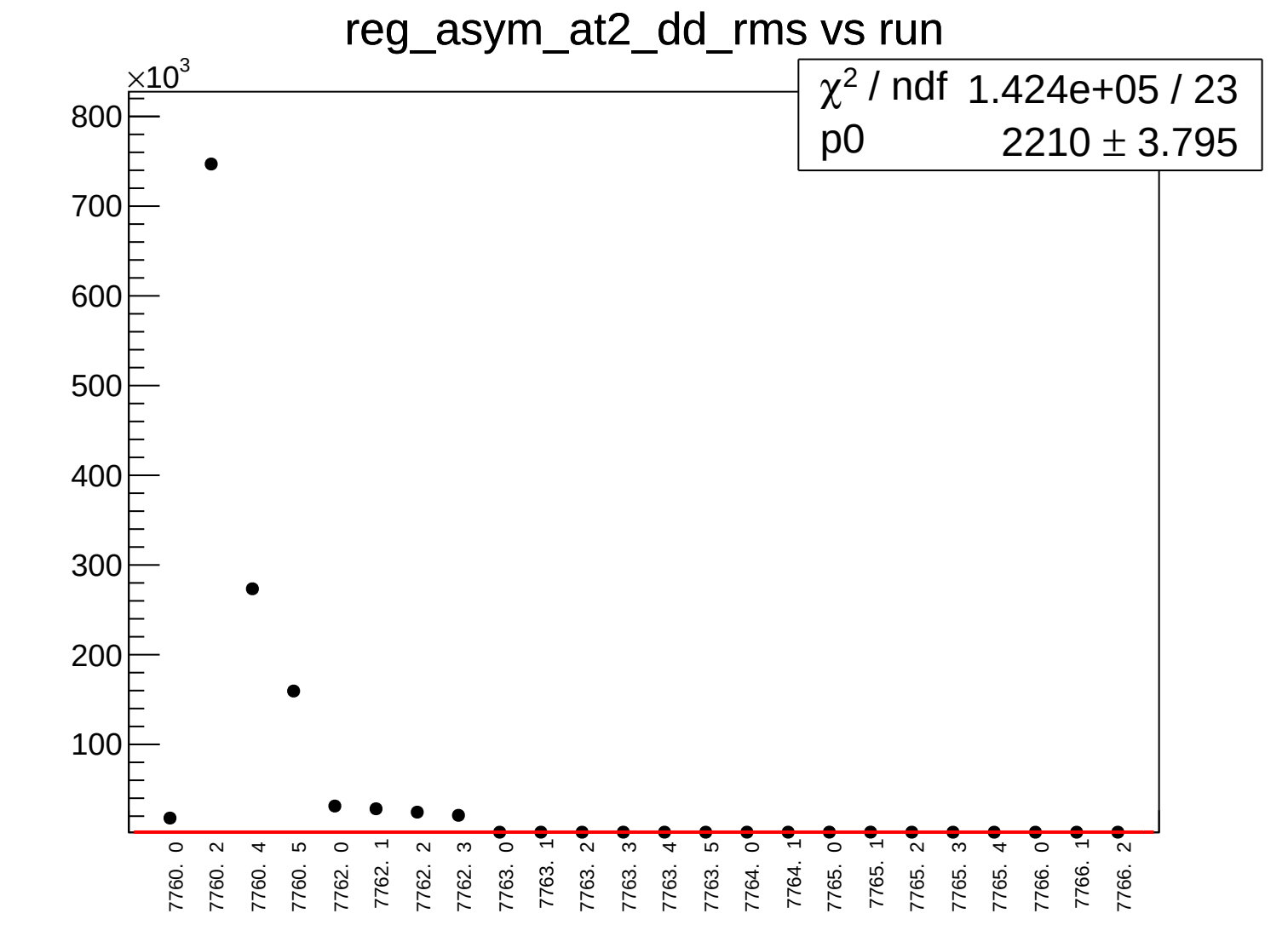

asym_at2_avg_mean vs run
×10^3
χ² / ndf 28.85 / 20
p0 −2.825e+04 ± 1.176e+04
400
200
0
−200
−400
−600
−800
7760. 0
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 21
Mean −66.47
Std Dev 71.77
2
1
0
−1
−2

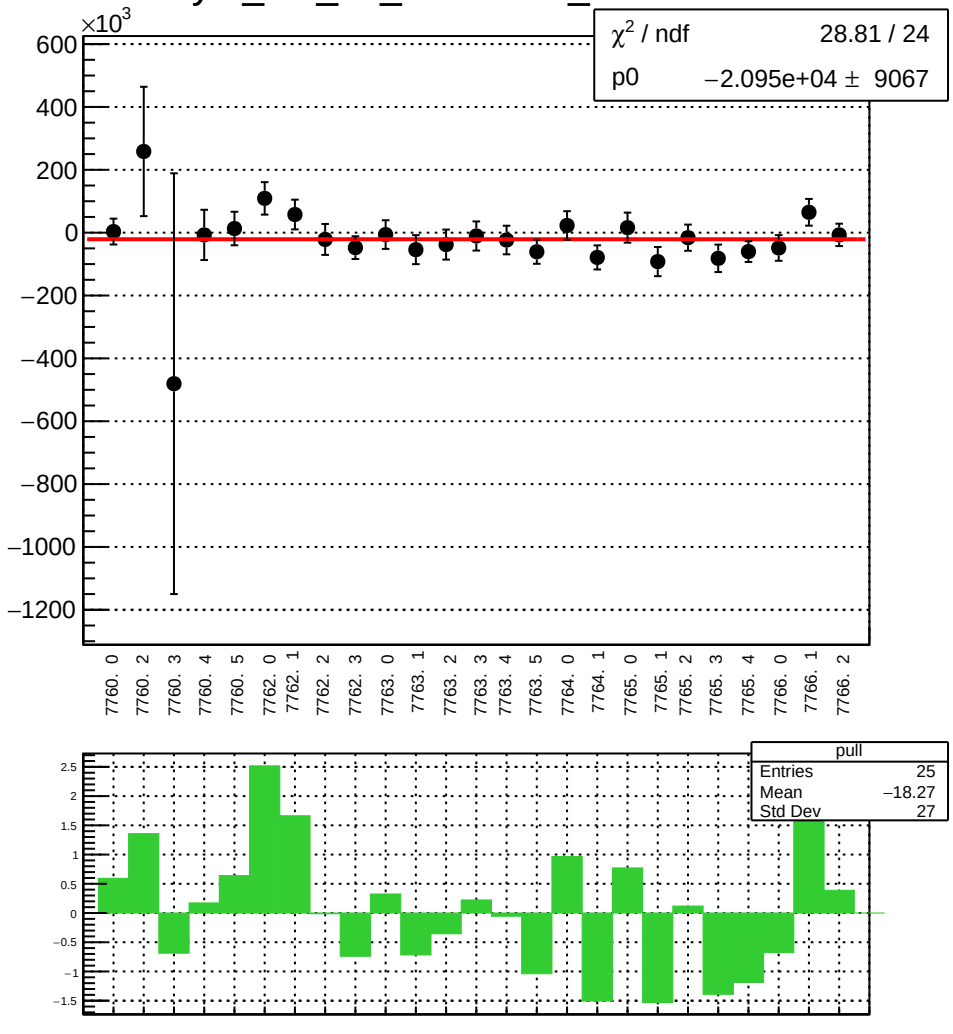

pull1D
Entries 21
Mean 0.002821
Std Dev 1.172
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

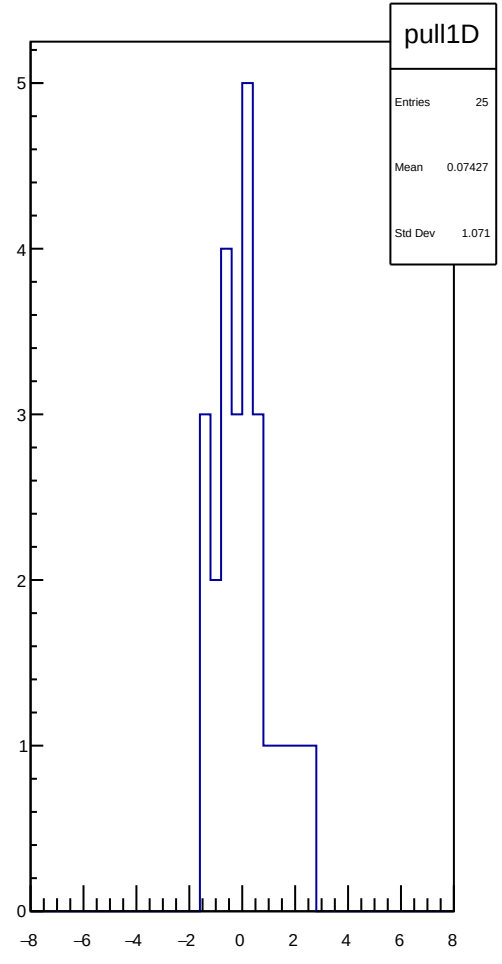

asym_at2_avg_rms vs run
×10^3
800
700
600
500
400
300
200
100
χ² / ndf 1.228e+05 / 23
p0 4981 ± 8.317
7760. 0
7760. 2
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

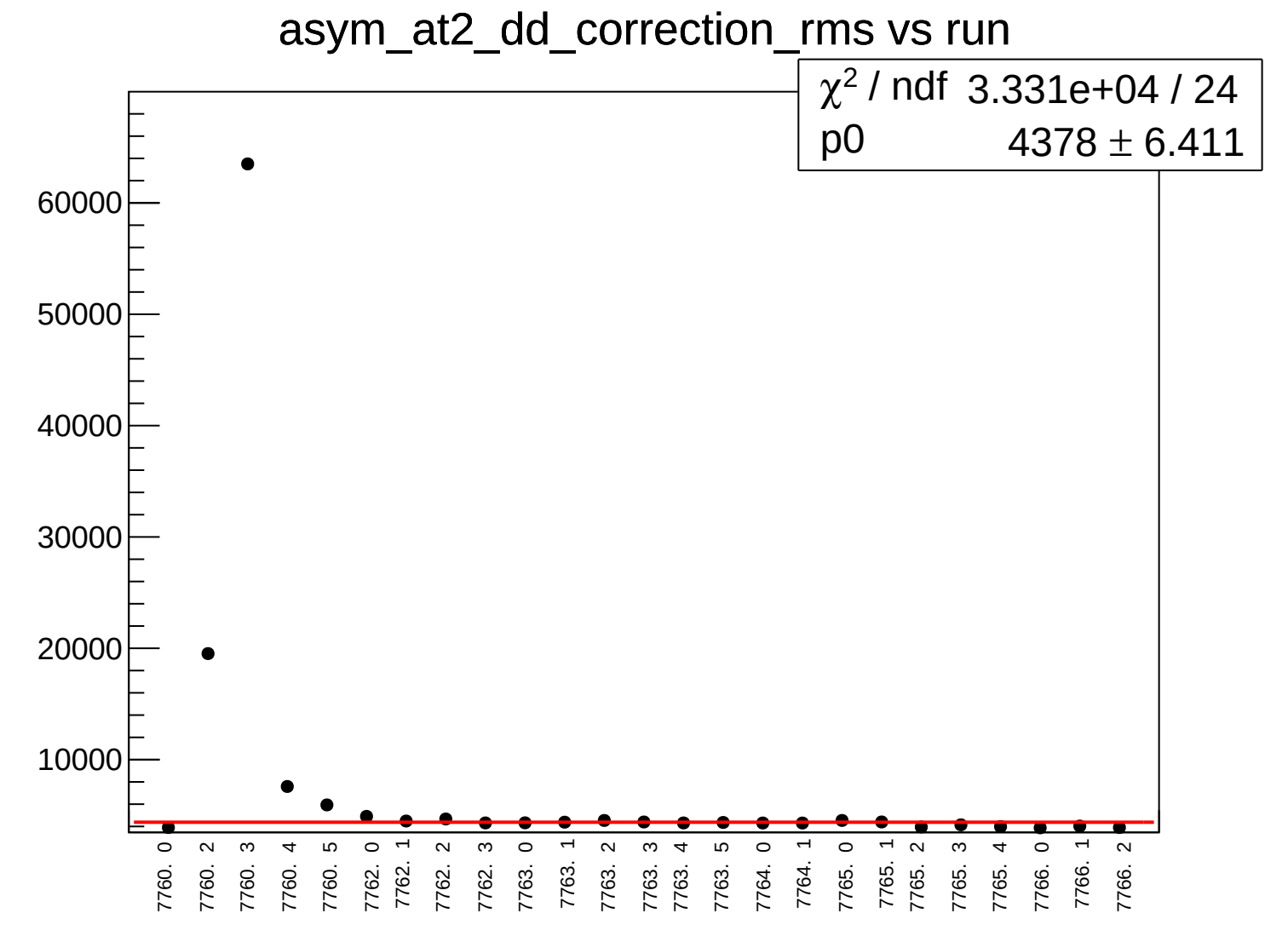

reg_asym_at2_dd_mean vs run
×10^3
χ^2 / ndf 20.58 / 20
p0 1502 ± 5368
400
200
0
−200
−400
−600
−800
7760. 0
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 21
Mean 10.5
Std Dev 9.284
1.5
1
0.5
0
−0.5
−1
−1.5

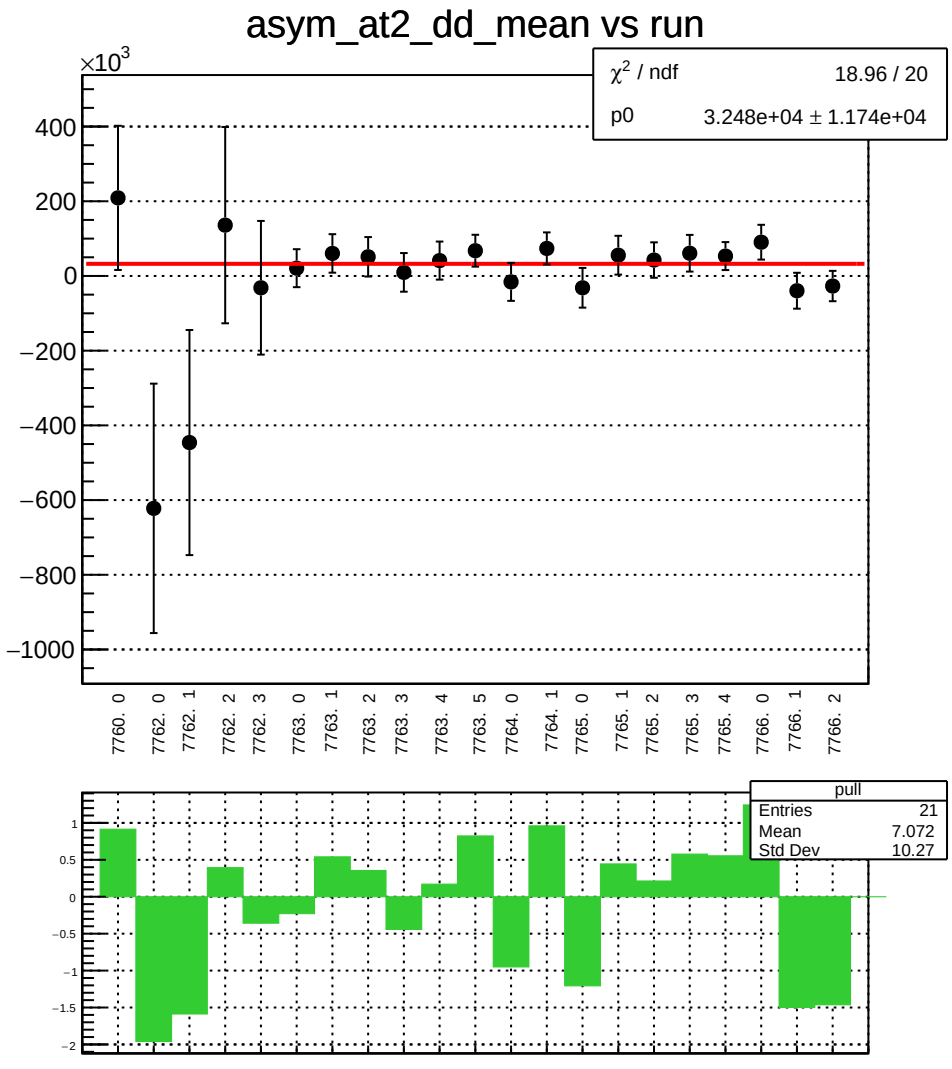

pull1D
Entries 21
Mean −0.06428
Std Dev 0.9878
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

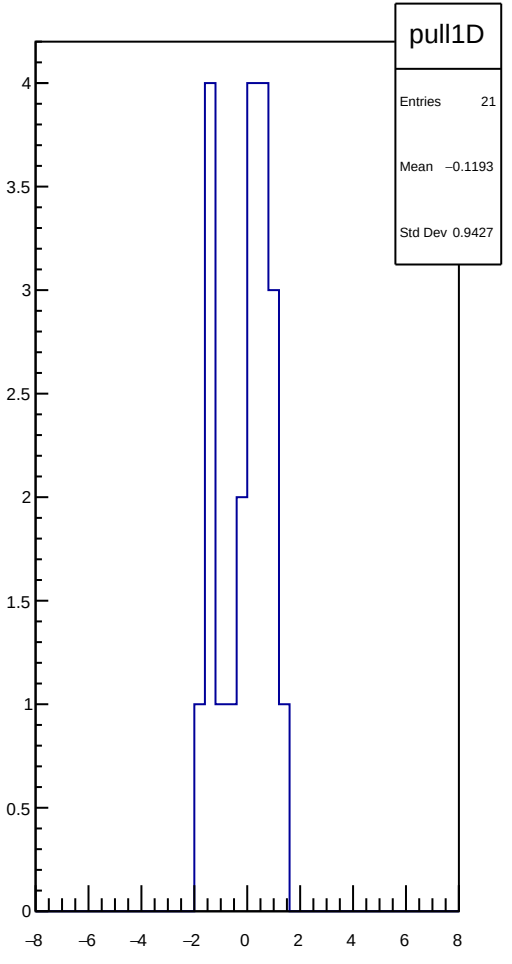

reg_asym_at2_dd_rms vs run
×10^3
800
700
600
500
400
300
200
100
χ² / ndf 1.424e+05 / 23
p0 2210 ± 3.795
7760. 0
7760. 2
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

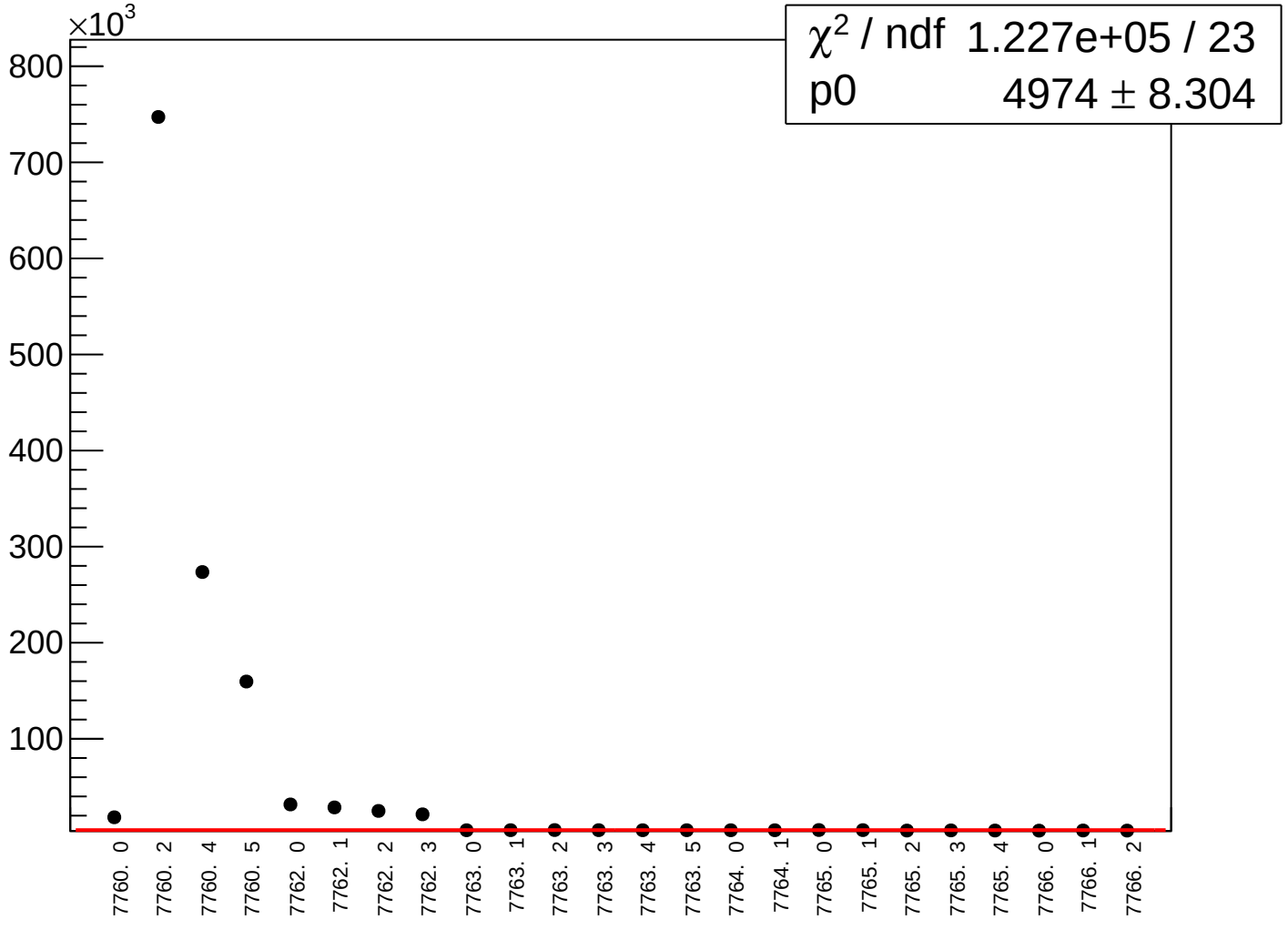

asym_at2_dd_correction_mean vs run
×10^3
χ² / ndf 28.81 / 24
p0 −2.095e+04 ± 9067
600
400
200
0
−200
−400
−600
−800
−1000
−1200
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −18.27
Std Dev 27
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

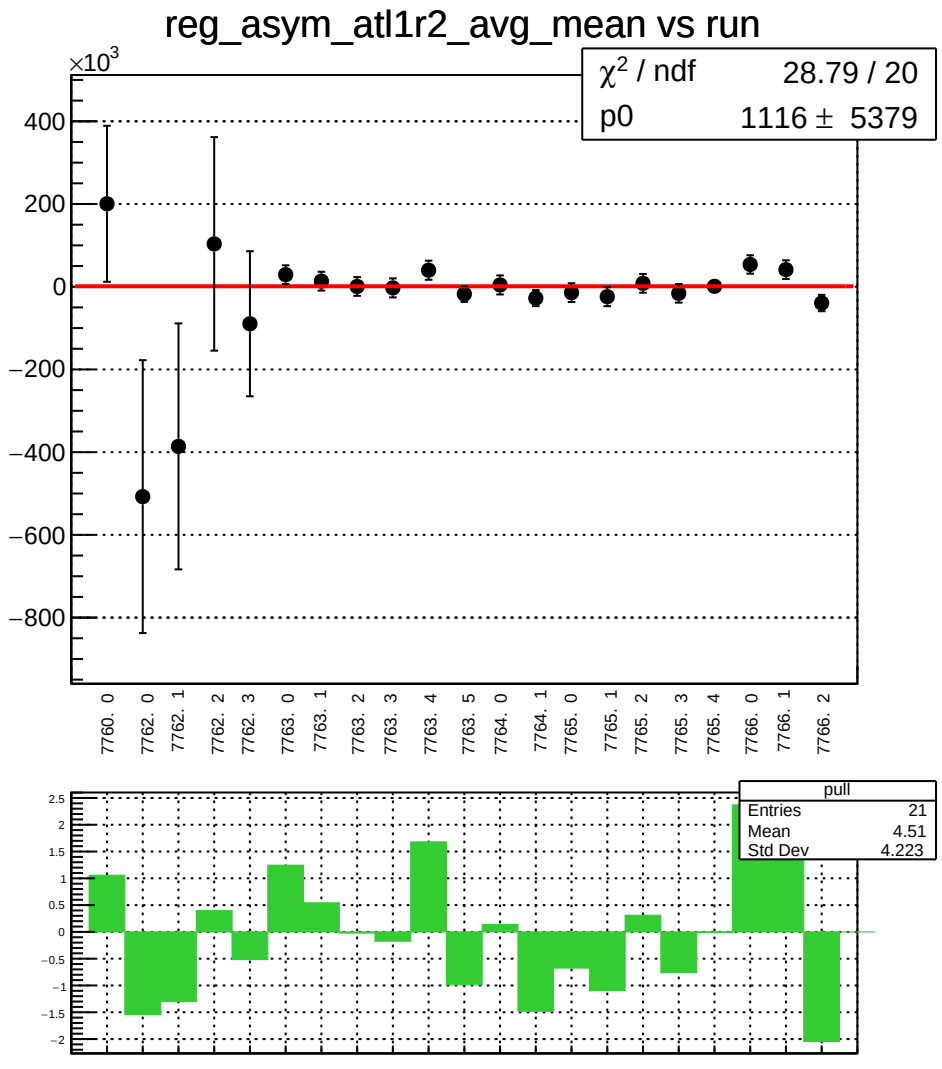

pull1D
Entries 25
Mean 0.07427
Std Dev 1.071
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

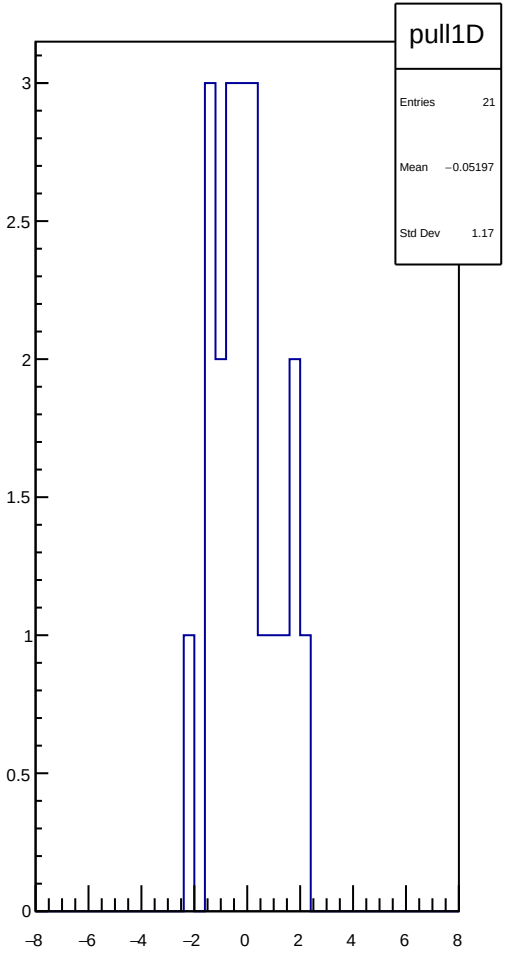

asym_at2_dd_correction_rms vs run
χ² / ndf 3.331e+04 / 24
p0 4378 ± 6.411
60000
50000
40000
30000
20000
10000
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

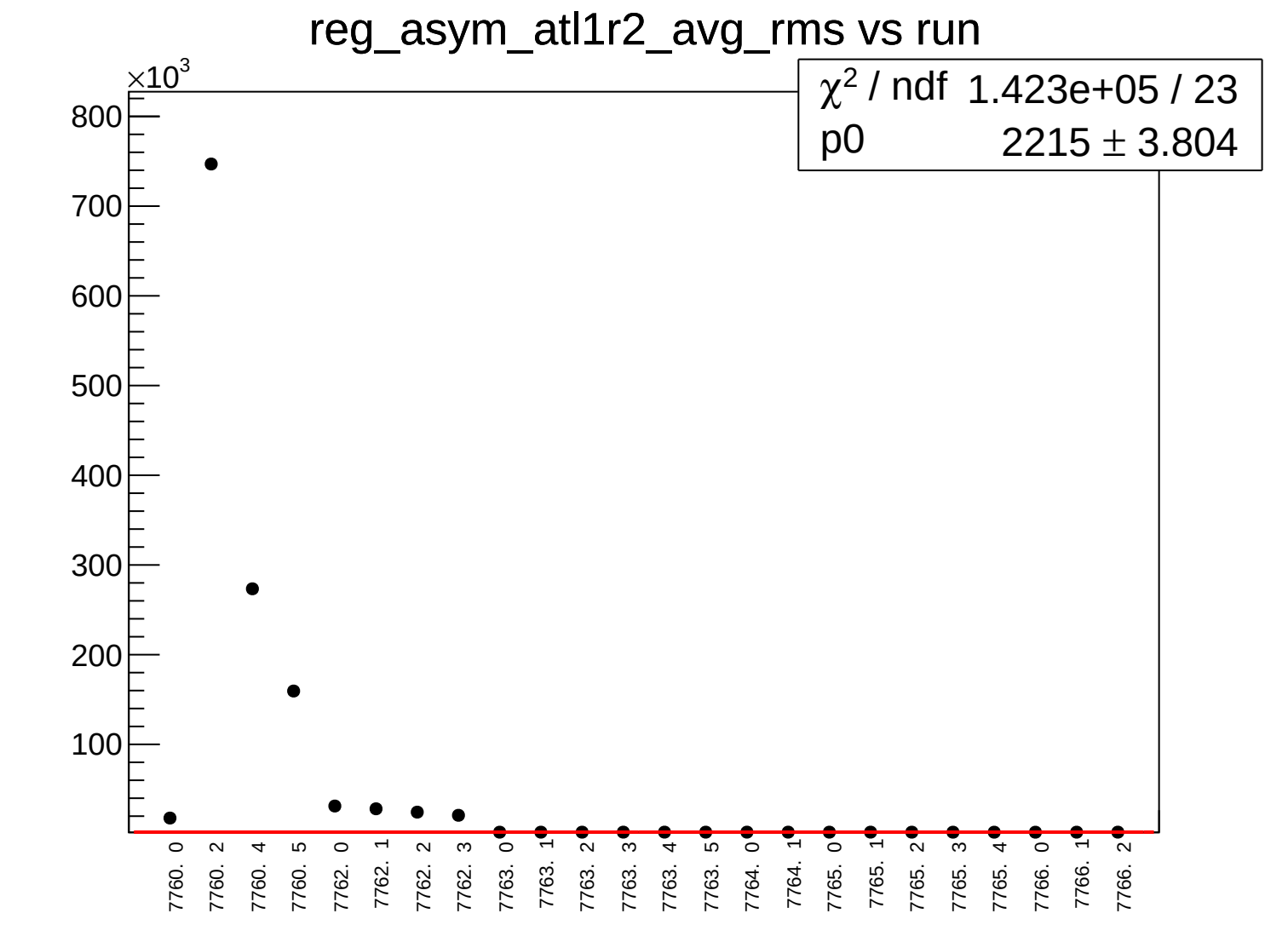

asym_at2_dd_mean vs run
×10^3
χ² / ndf 18.96 / 20
p0 3.248e+04 ± 1.174e+04
400
200
0
−200
−400
−600
−800
−1000
7760. 0
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 21
Mean 7.072
Std Dev 10.27
1
0.5
0
−0.5
−1
−1.5
−2

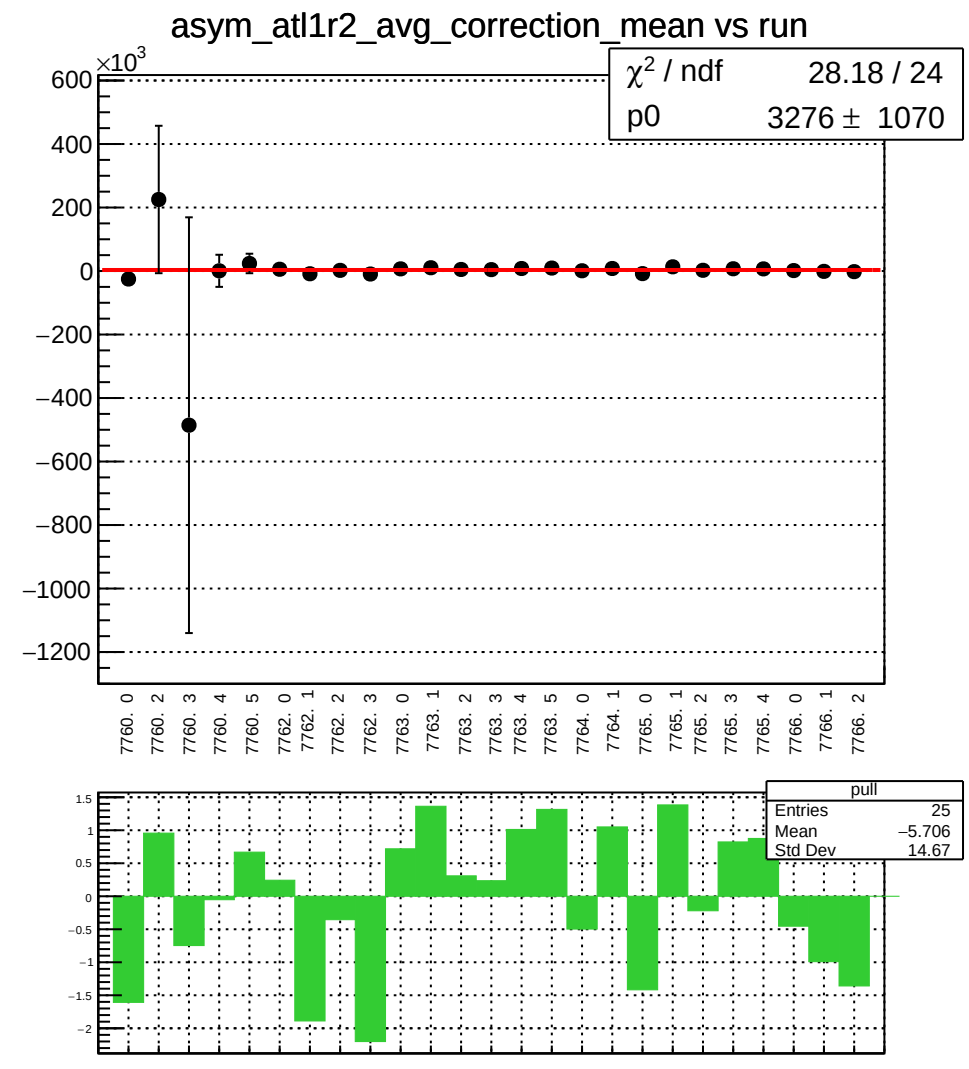

pull1D
Entries 21
Mean −0.1193
Std Dev 0.9427
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

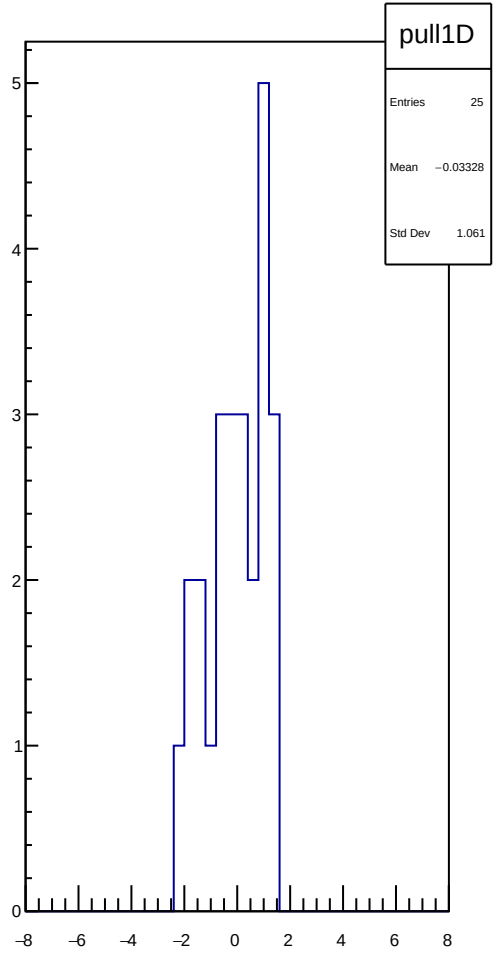

asym_at2_dd_rms vs run
×10^3
800
700
600
500
400
300
200
100
χ² / ndf 1.227e+05 / 23
p0 4974 ± 8.304
7760. 0
7760. 2
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

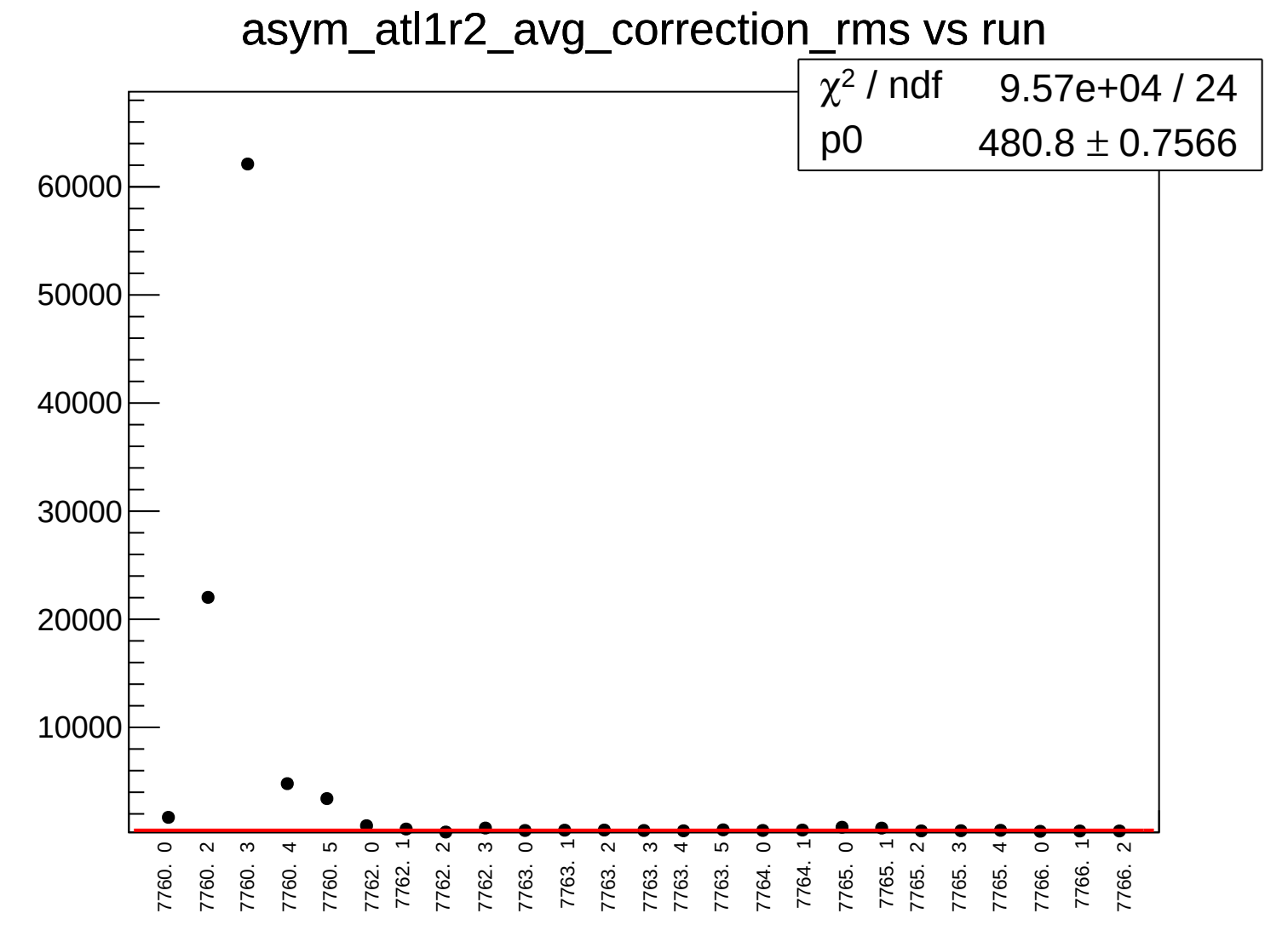

reg_asym_atl1r2_avg_mean vs run
×10^3
χ^2 / ndf 28.79 / 20
p0 1116 ± 5379
400
200
0
−200
−400
−600
−800
7760. 0
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 21
Mean 4.51
Std Dev 4.223
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

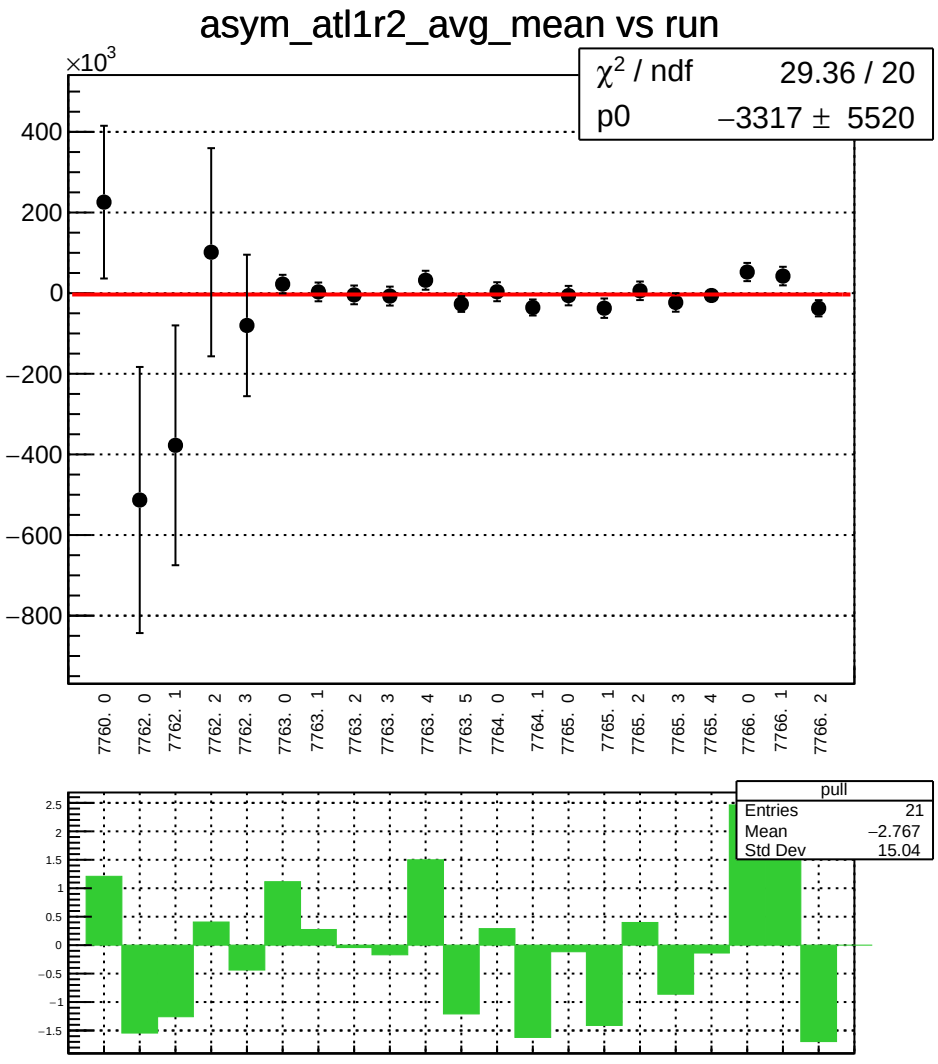

pull1D
Entries 21
Mean −0.05197
Std Dev 1.17
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

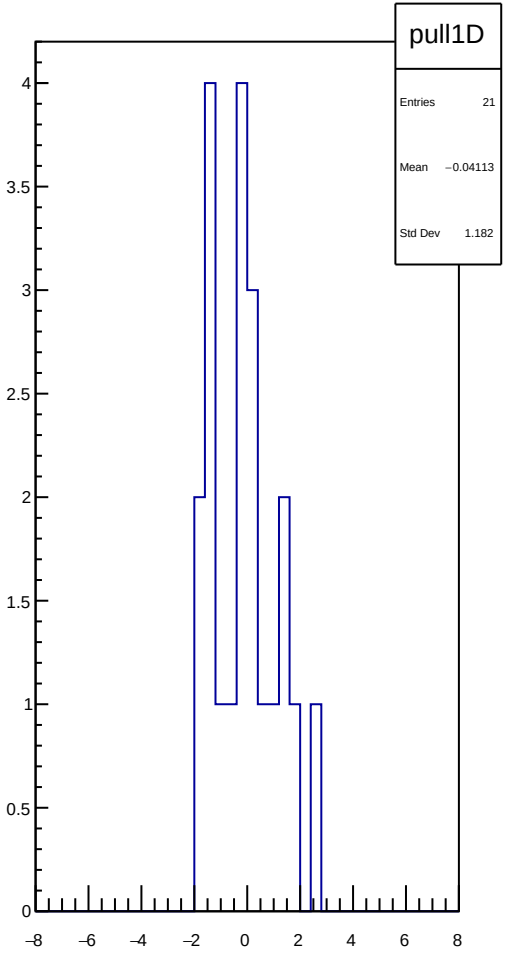

reg_asym_atl1r2_avg_rms vs run
×10^3
800
700
600
500
400
300
200
100
χ² / ndf 1.423e+05 / 23
p0 2215 ± 3.804
7760. 0
7760. 2
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

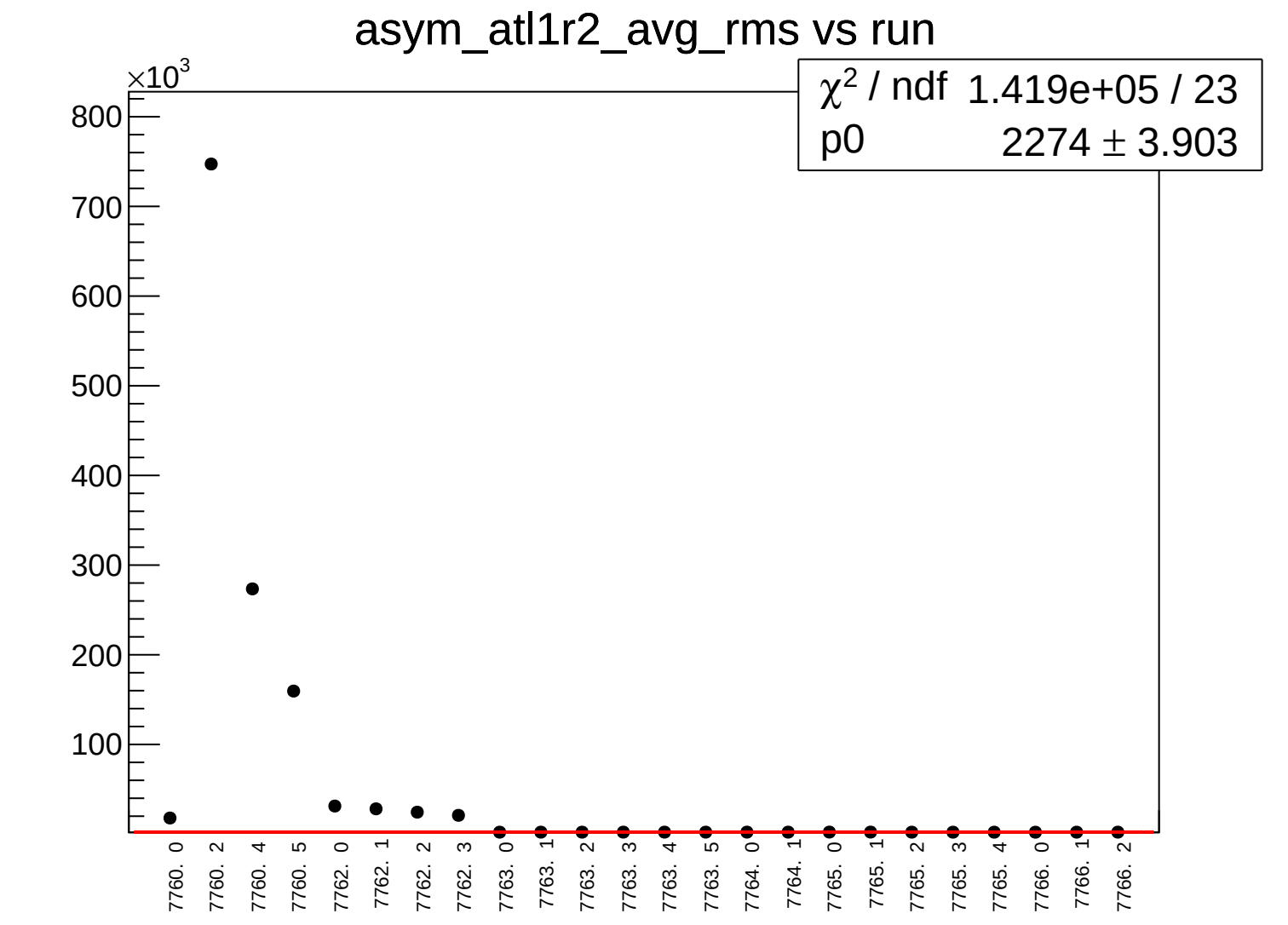

asym_atl1r2_avg_correction_mean vs run
×10^3
χ^2 / ndf 28.18 / 24
p0 3276 ± 1070
600
400
200
0
−200
−400
−600
−800
−1000
−1200
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −5.706
Std Dev 14.67
1.5
1
0.5
0
−0.5
−1
−1.5
−2

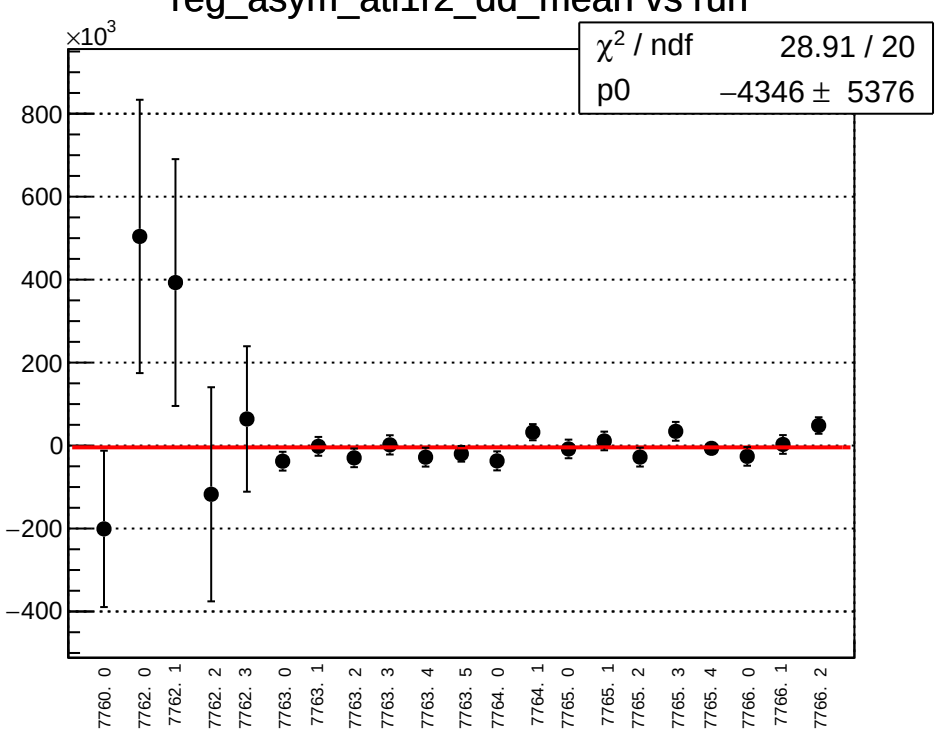

pull1D
Entries 25
Mean −0.03328
Std Dev 1.061
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

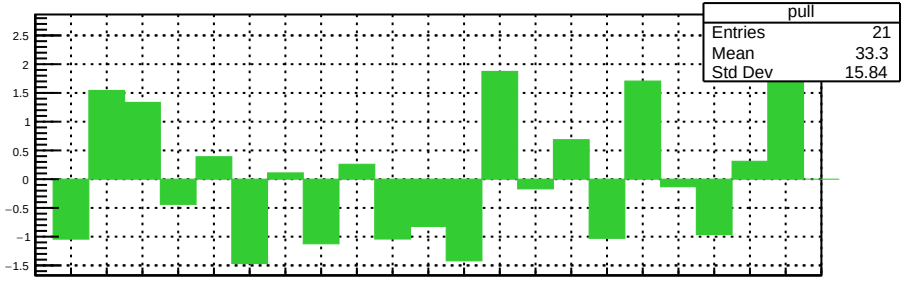

asym_atl1r2_avg_correction_rms vs run
χ² / ndf 9.57e+04 / 24
p0 480.8 ± 0.7566
60000
50000
40000
30000
20000
10000
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

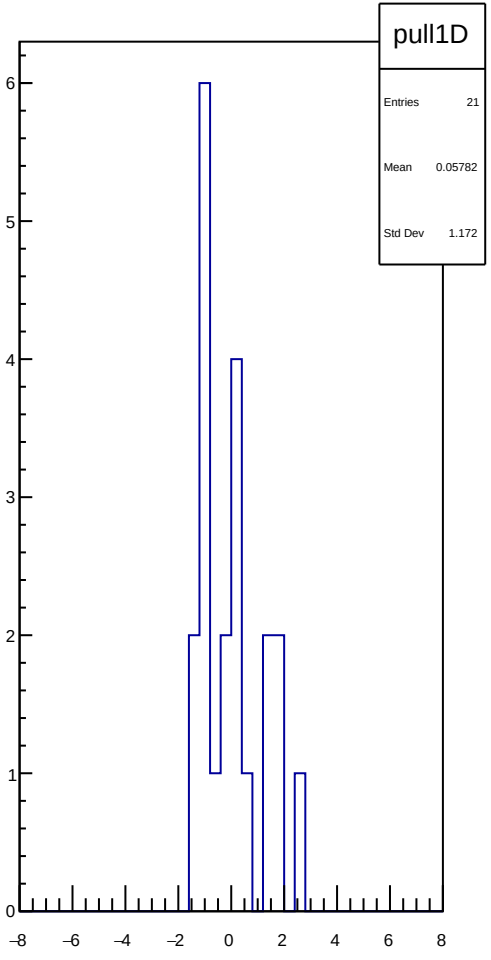

asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 29.36 / 20
p0 −3317 ± 5520
400
200
0
−200
−400
−600
−800
7760. 0
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 21
Mean −2.767
Std Dev 15.04
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

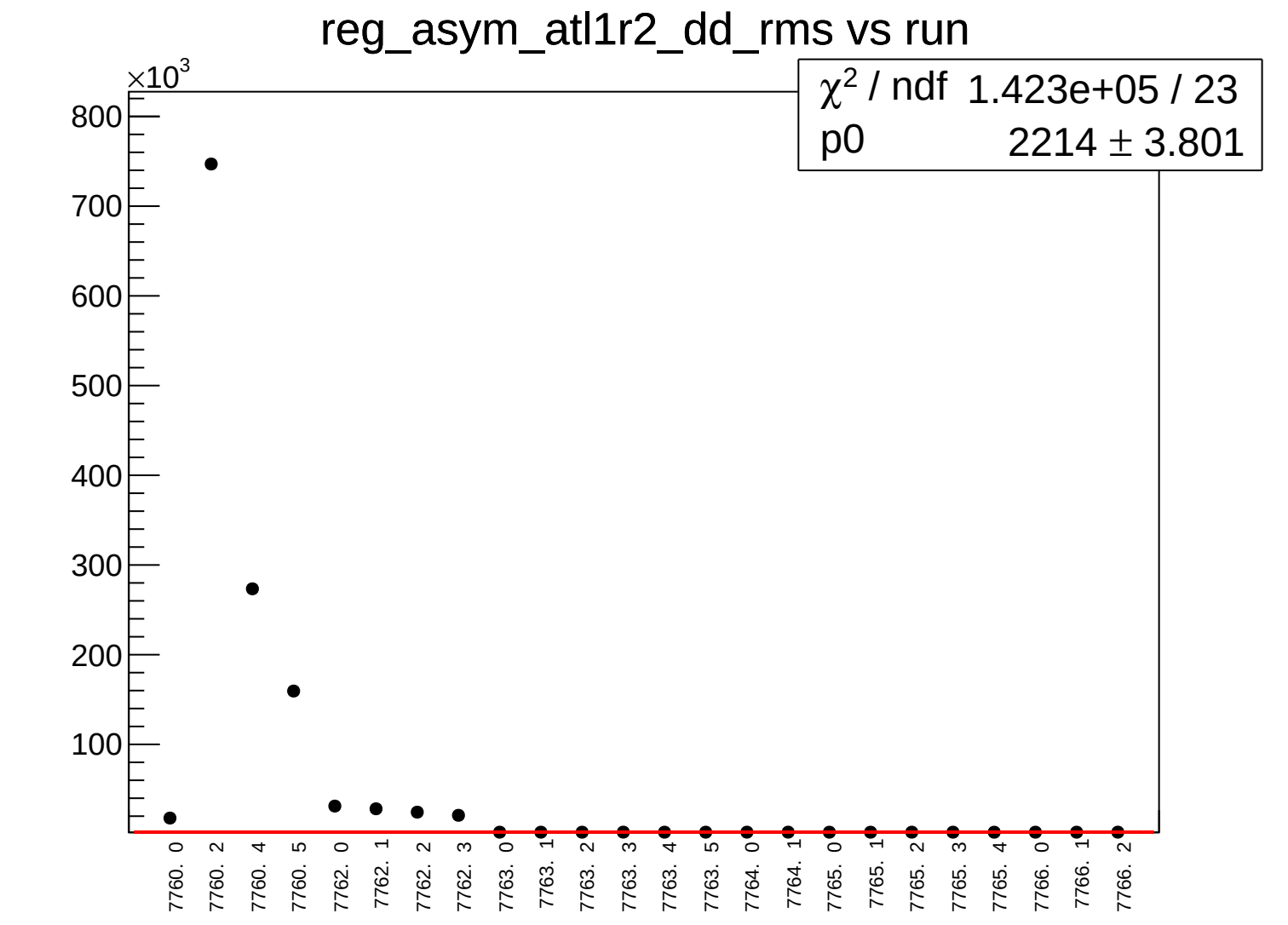

pull1D
Entries 21
Mean −0.04113
Std Dev 1.182
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

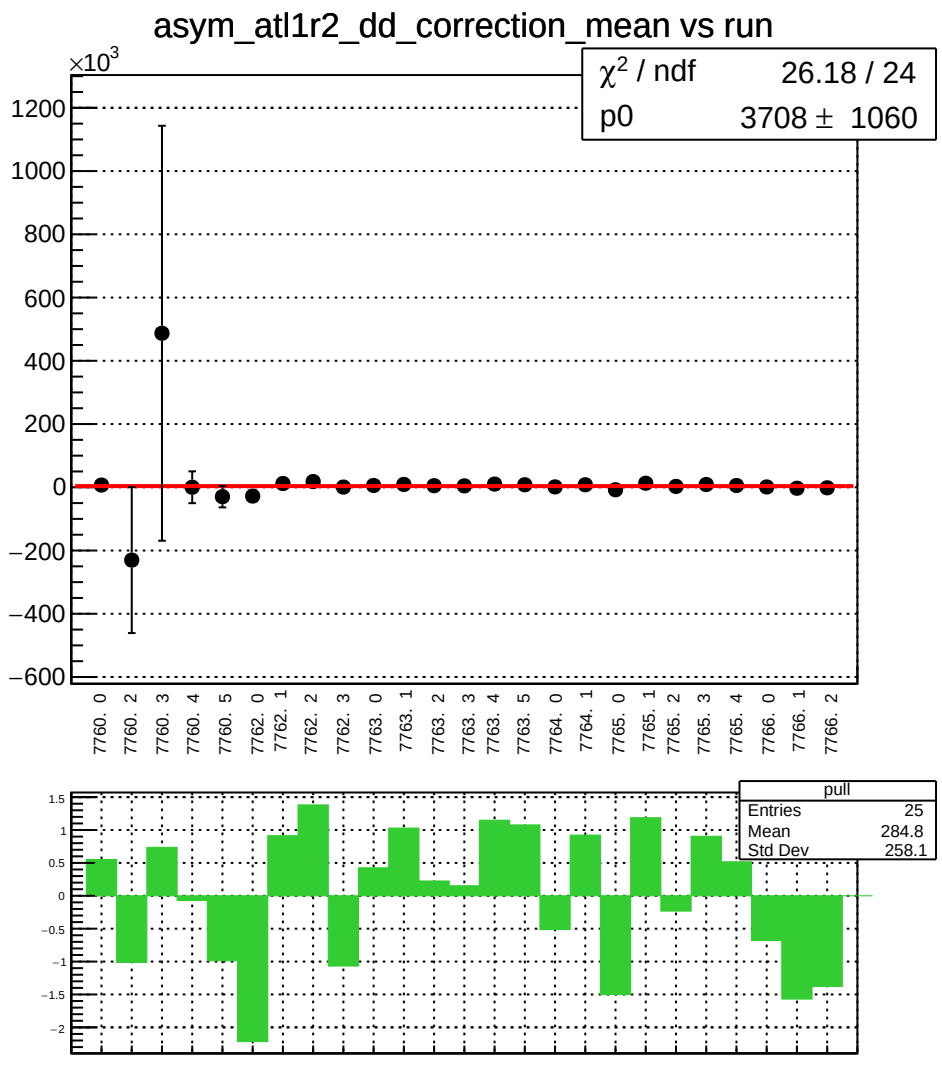

asym_atl1r2_avg_rms vs run
×10^3
800
700
600
500
400
300
200
100
χ² / ndf 1.419e+05 / 23
p0 2274 ± 3.903
7760. 0
7760. 2
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

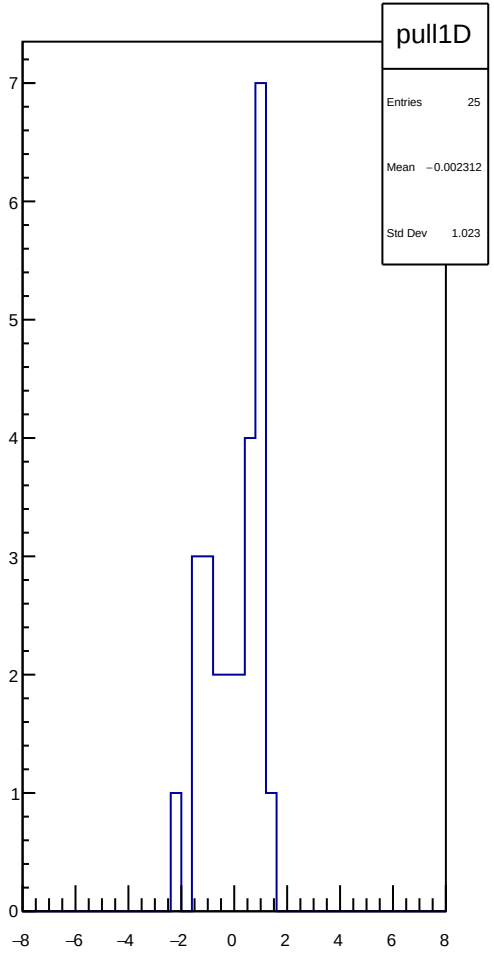

reg_asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 28.91 / 20
p0 −4346 ± 5376
800
600
400
200
0
−200
−400
7760. 0
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

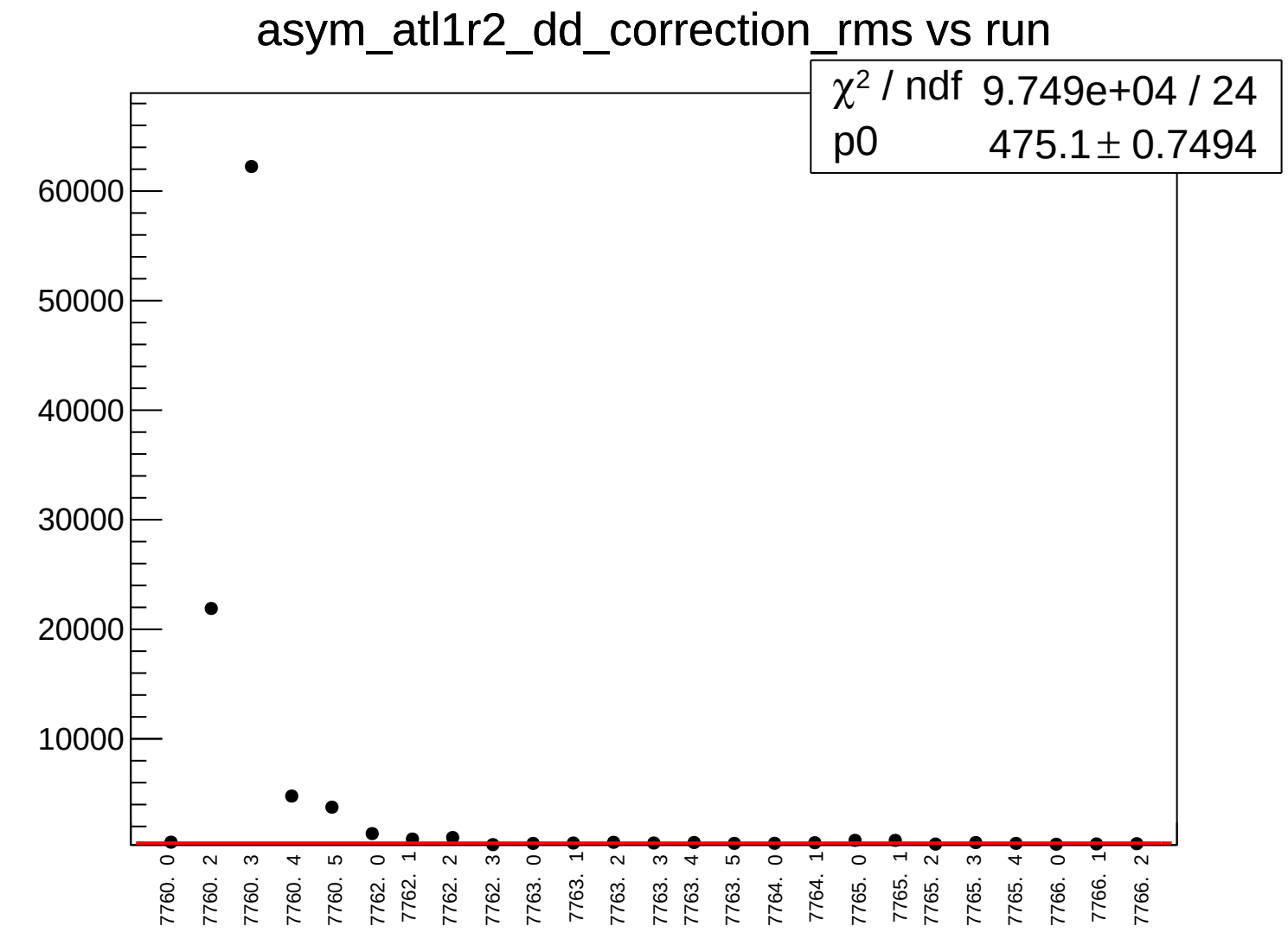

pull
Entries 21
Mean 33.3
Std Dev 15.84
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

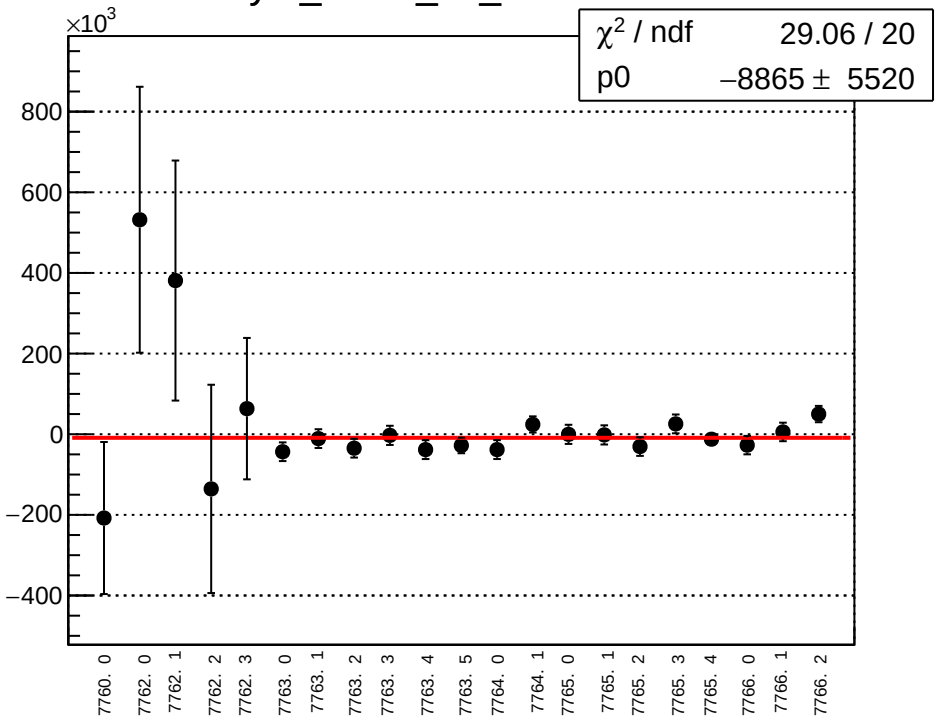

pull1D
Entries 21
Mean 0.05782
Std Dev 1.172
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

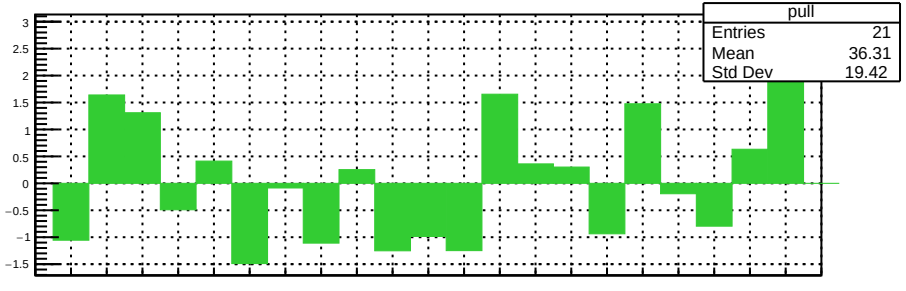

reg_asym_atl1r2_dd_rms vs run
×10^3
800
700
600
500
400
300
200
100
χ² / ndf 1.423e+05 / 23
p0 2214 ± 3.801
7760. 0
7760. 2
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

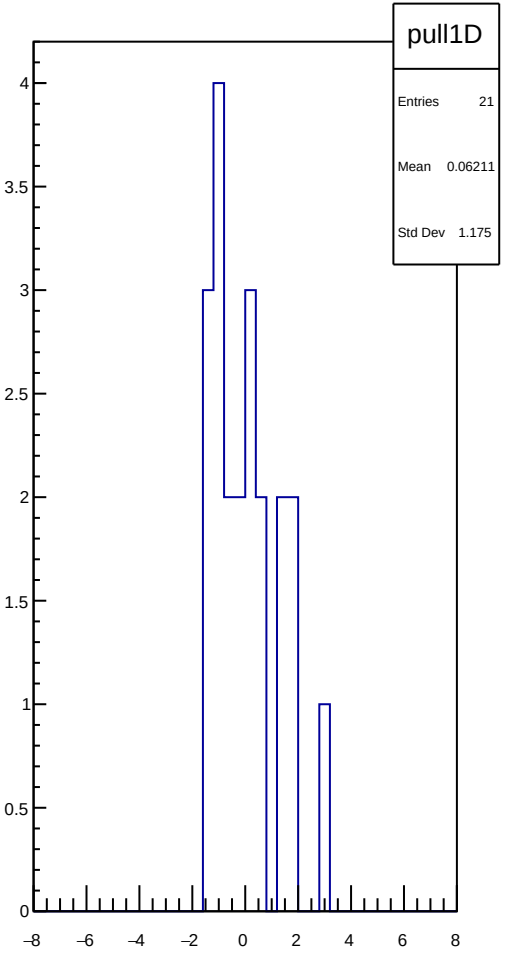

asym_atl1r2_dd_correction_mean vs run
×10^3
χ^2 / ndf 26.18 / 24
p0 3708 ± 1060
1200
1000
800
600
400
200
0
−200
−400
−600
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 284.8
Std Dev 258.1
1.5
1
0.5
0
−0.5
−1
−1.5
−2

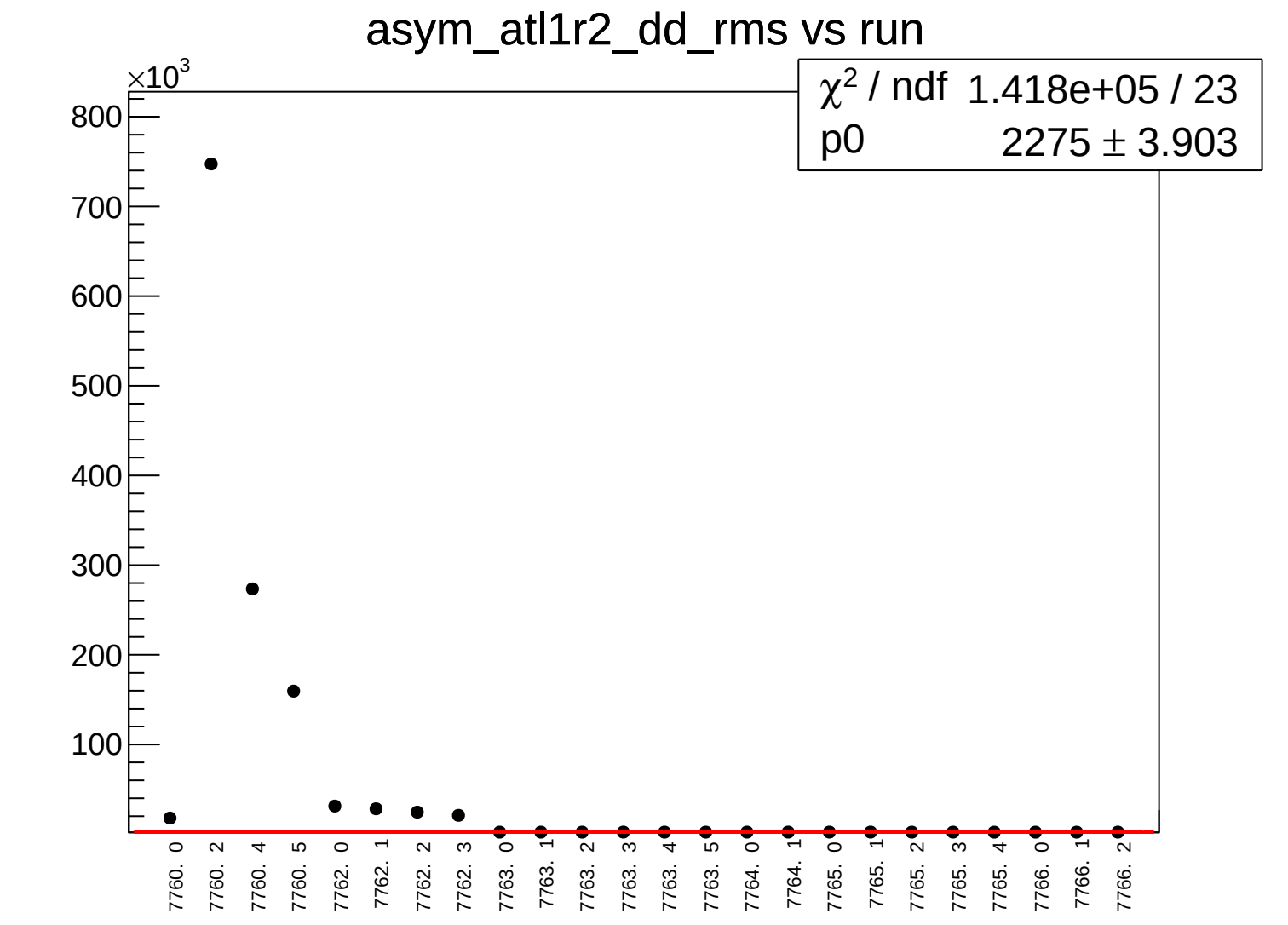

pull1D
Entries 25
Mean −0.002312
Std Dev 1.023
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

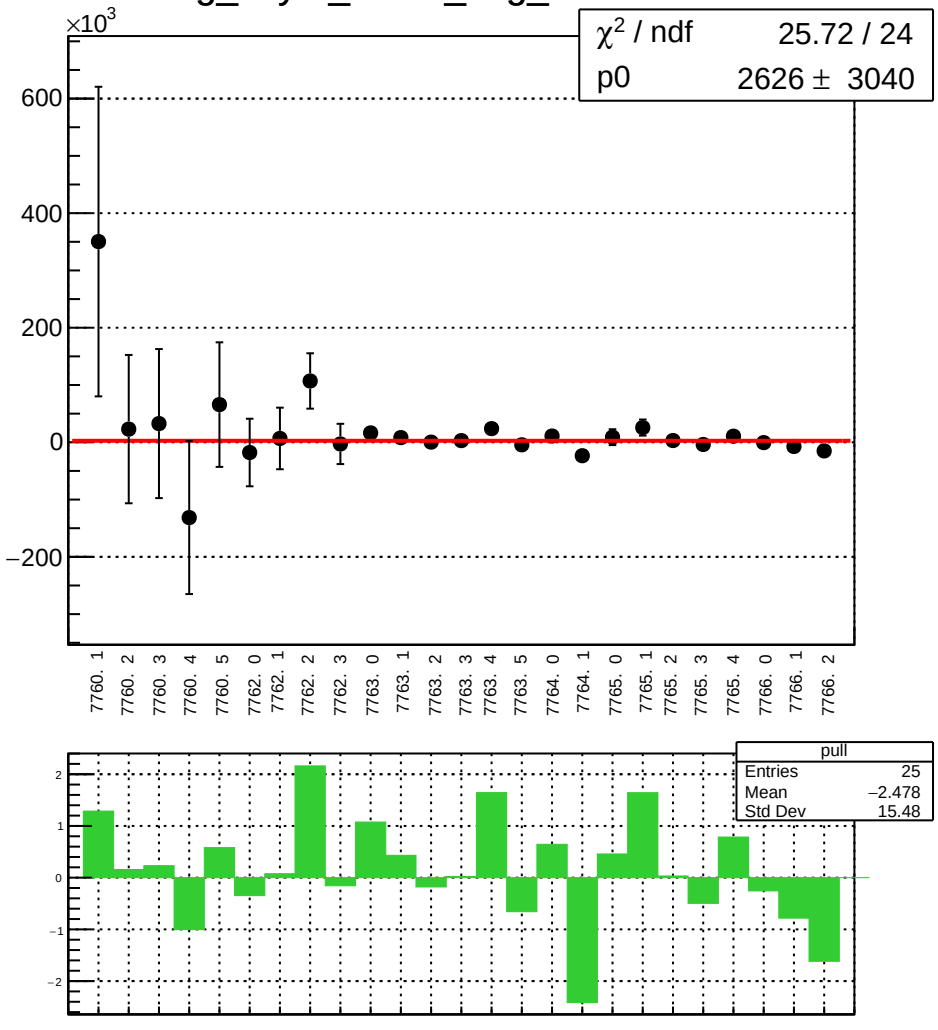

asym_atl1r2_dd_correction_rms vs run
χ² / ndf 9.749e+04 / 24
p0 475.1 ± 0.7494
60000
50000
40000
30000
20000
10000
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

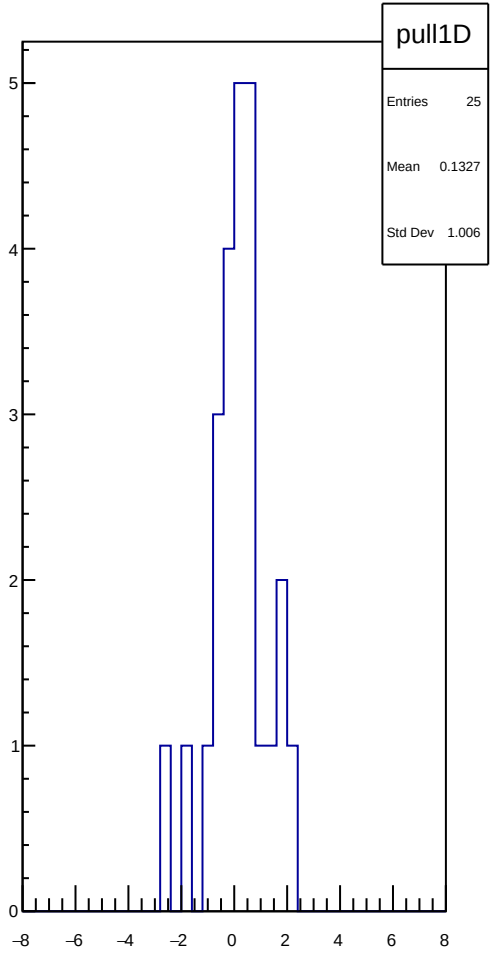

asym_atl1r2_dd_mean vs run
χ^2 / ndf 29.06 / 20
p0 −8865 ± 5520
×10^3
800
600
400
200
0
−200
−400
7760. 0
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

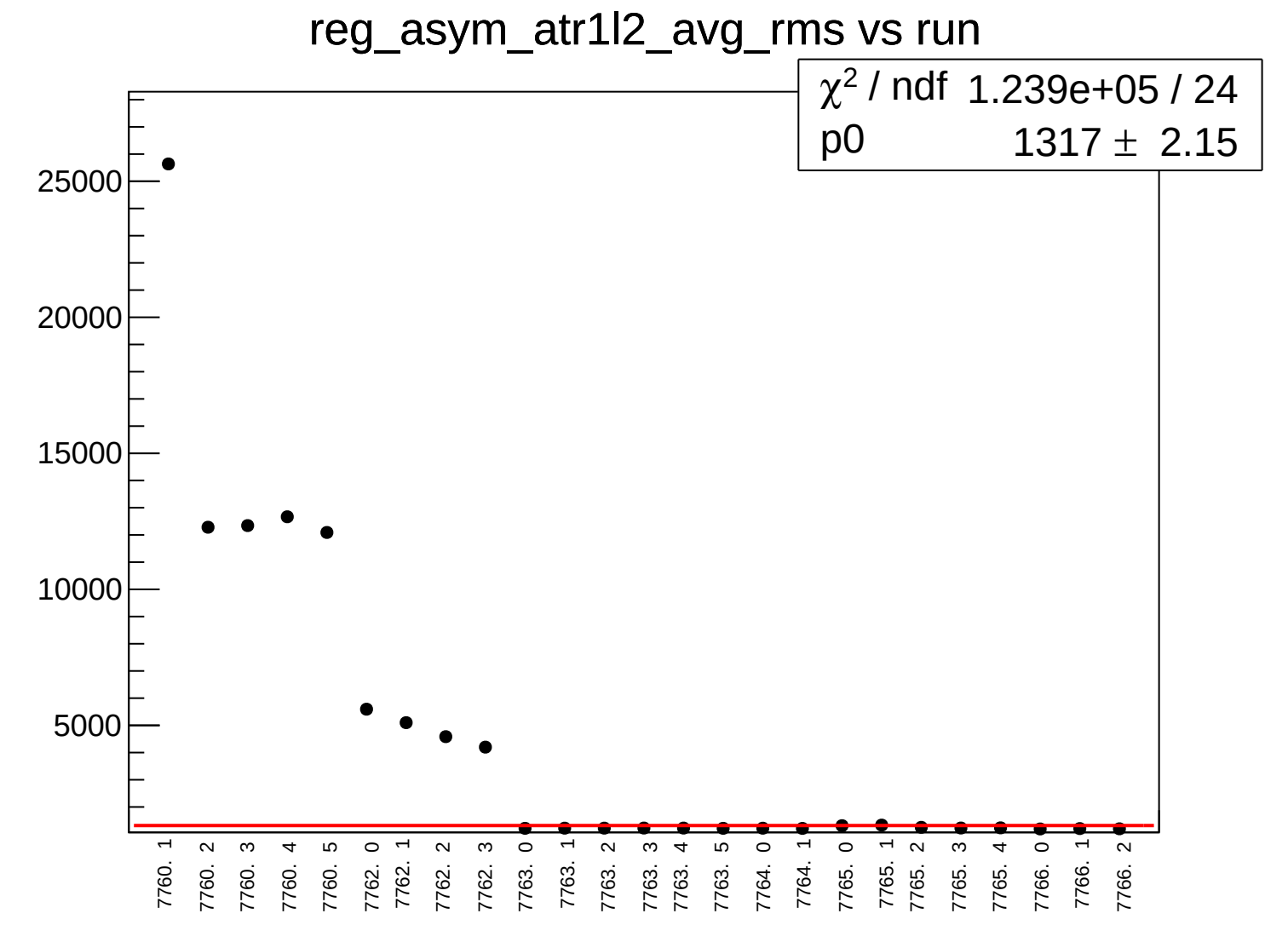

pull
Entries 21
Mean 36.31
Std Dev 19.42

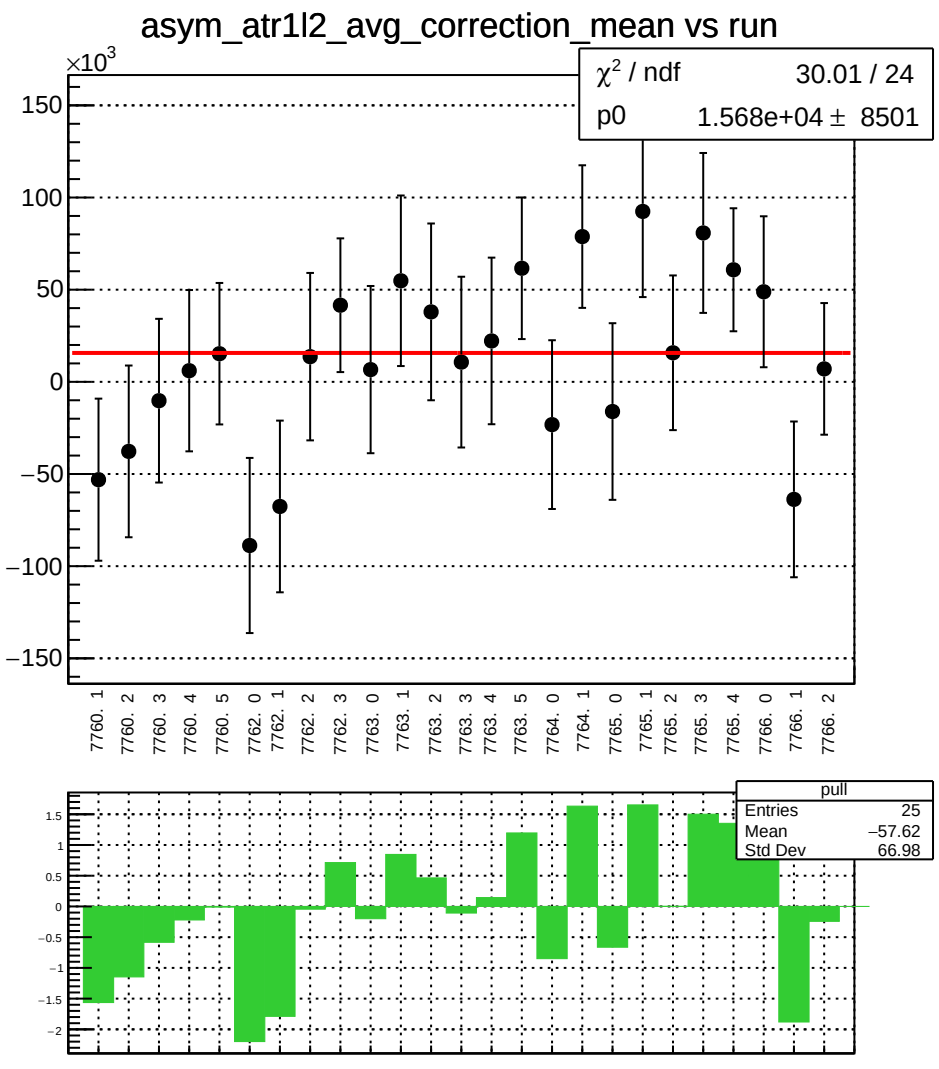

pull1D
Entries 21
Mean 0.06211
Std Dev 1.175

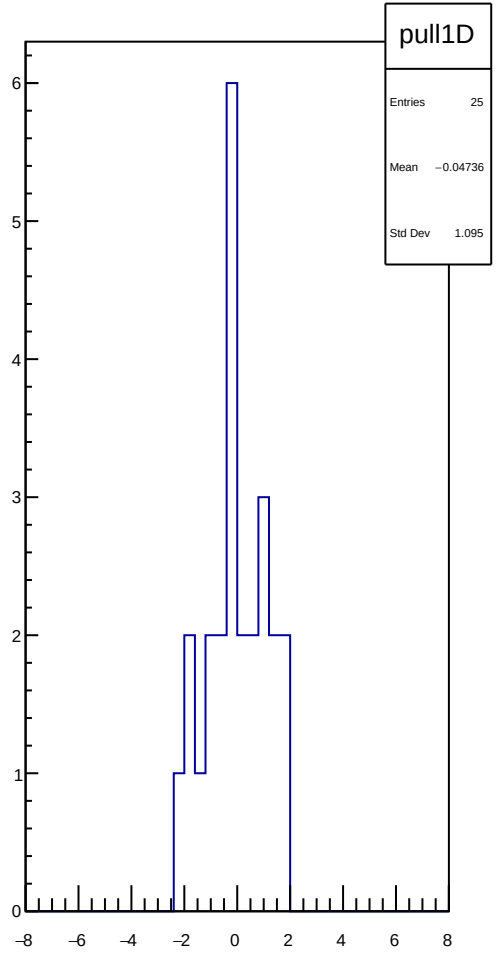

asym_atl1r2_dd_rms vs run
×10^3
800
700
600
500
400
300
200
100
χ² / ndf 1.418e+05 / 23
p0 2275 ± 3.903
7760. 0
7760. 2
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

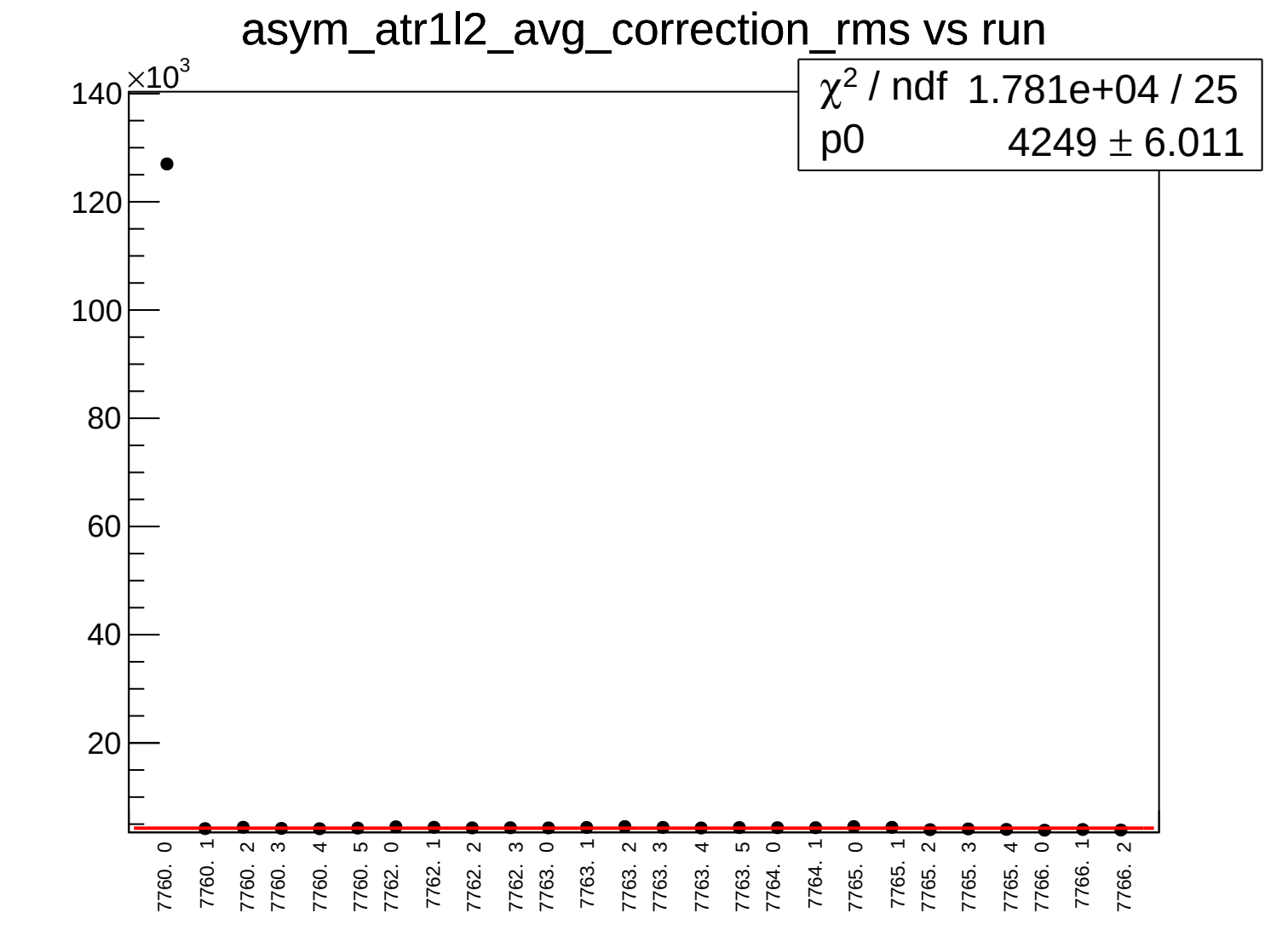

reg_asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 25.72 / 24
p0 2626 ± 3040
600
400
200
0
−200
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −2.478
Std Dev 15.48
2
1
0
−1
−2

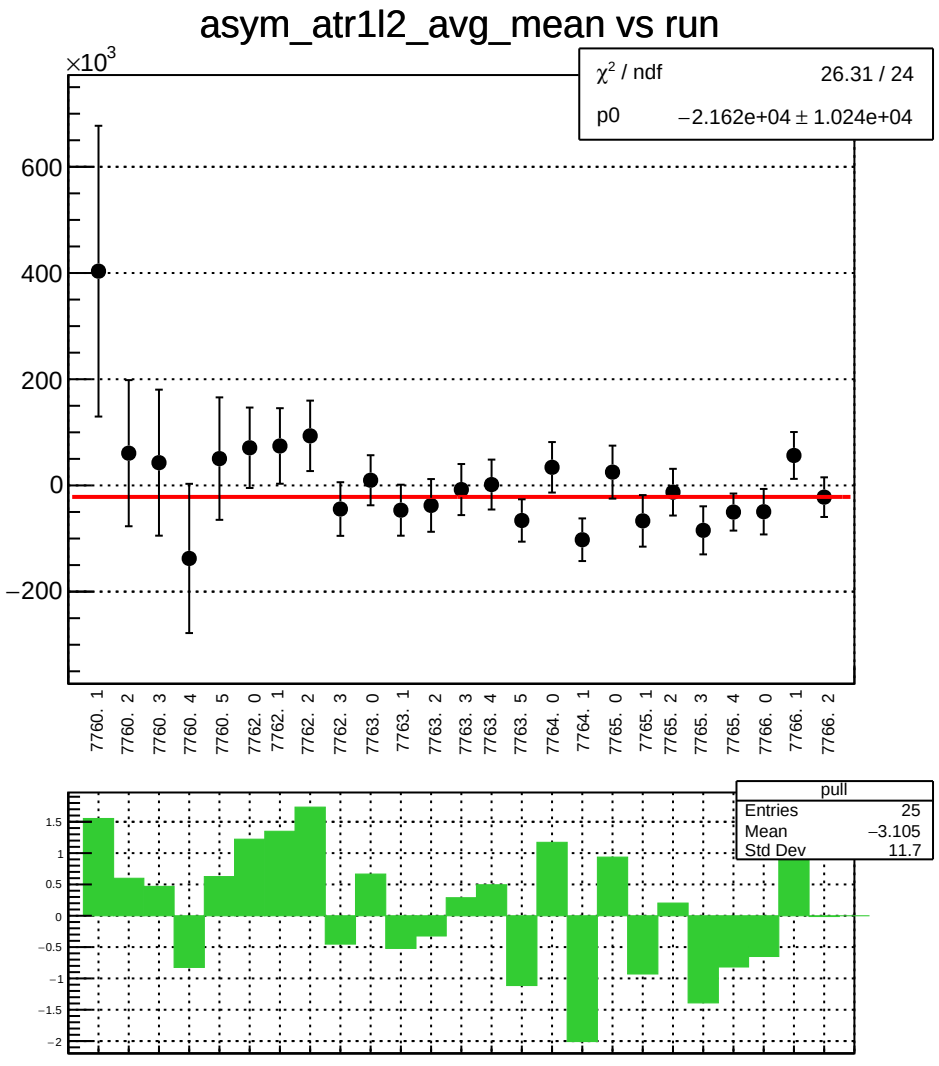

pull1D
Entries 25
Mean 0.1327
Std Dev 1.006
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

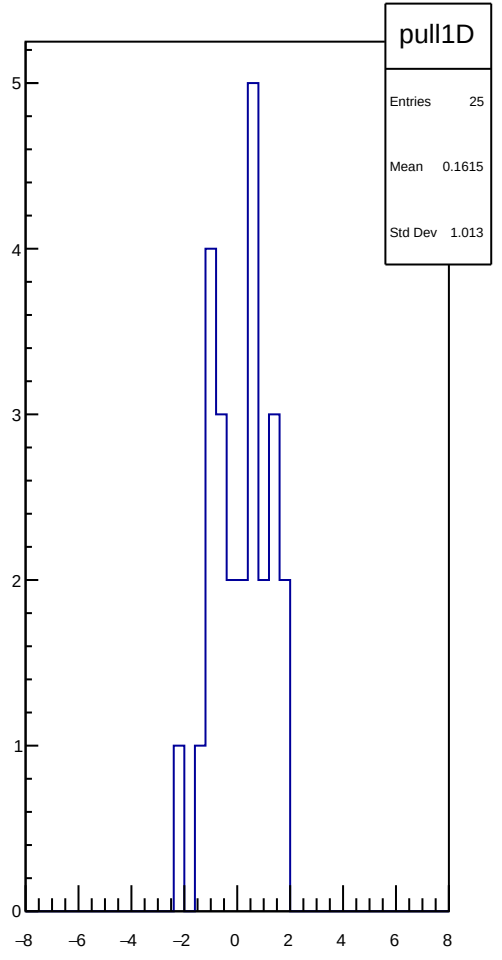

reg_asym_atr1l2_avg_rms vs run
χ² / ndf 1.239e+05 / 24
p0 1317 ± 2.15
25000
20000
15000
10000
5000
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

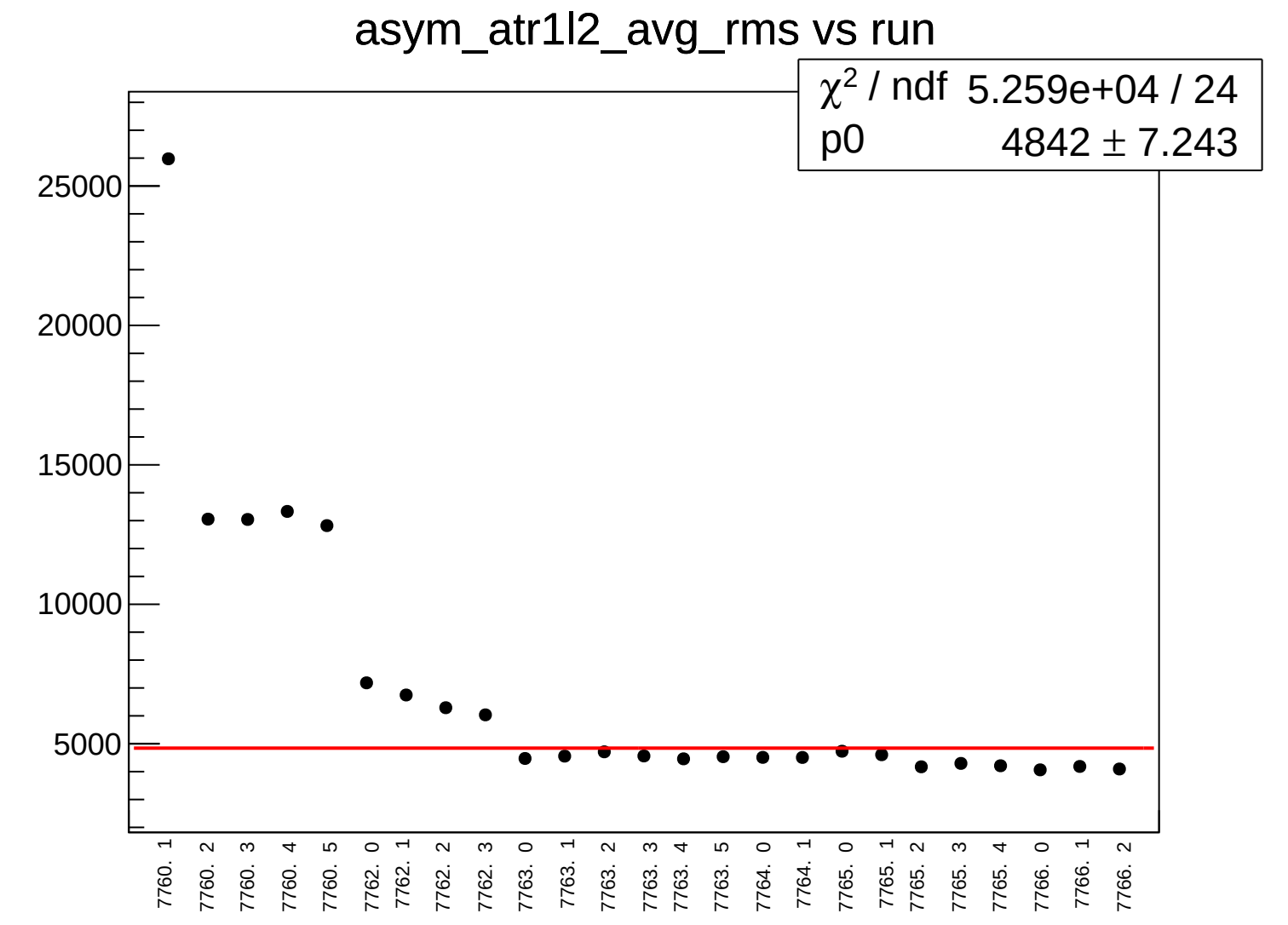

asym_atr1l2_avg_correction_mean vs run
×10^3
χ² / ndf 30.01 / 24
p0 1.568e+04 ± 8501
150
100
50
0
−50
−100
−150
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −57.62
Std Dev 66.98
1.5
1
0.5
0
−0.5
−1
−1.5
−2

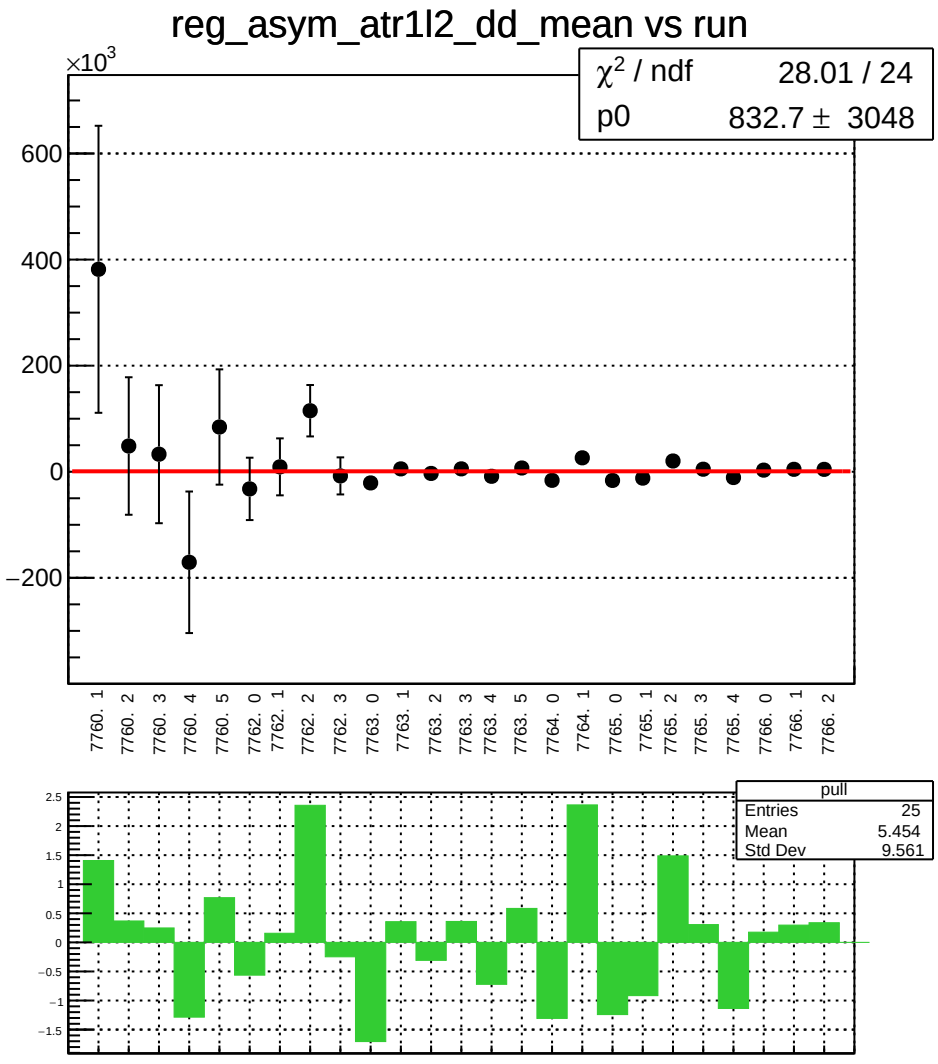

pull1D
Entries 25
Mean −0.04736
Std Dev 1.095
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

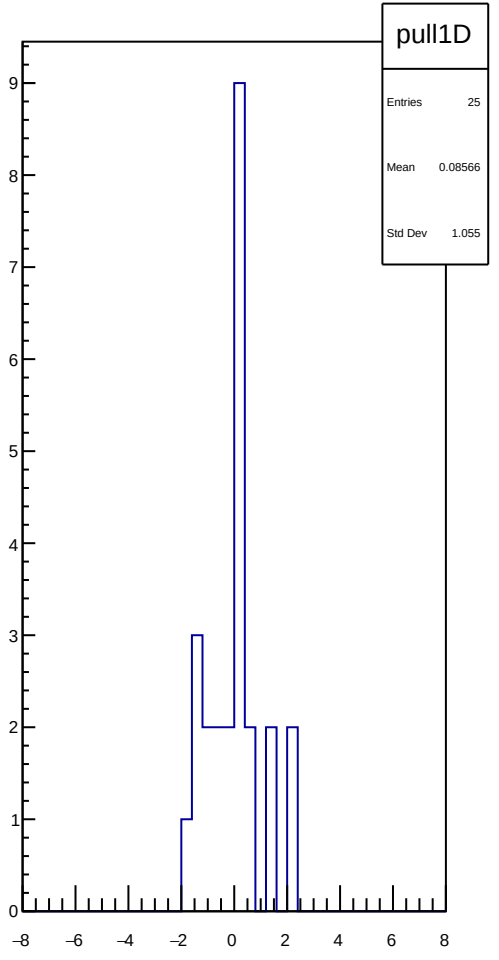

asym_atr1l2_avg_correction_rms vs run
χ^2 / ndf 1.781e+04 / 25
p0 4249 ± 6.011
×10^3
140
120
100
80
60
40
20
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

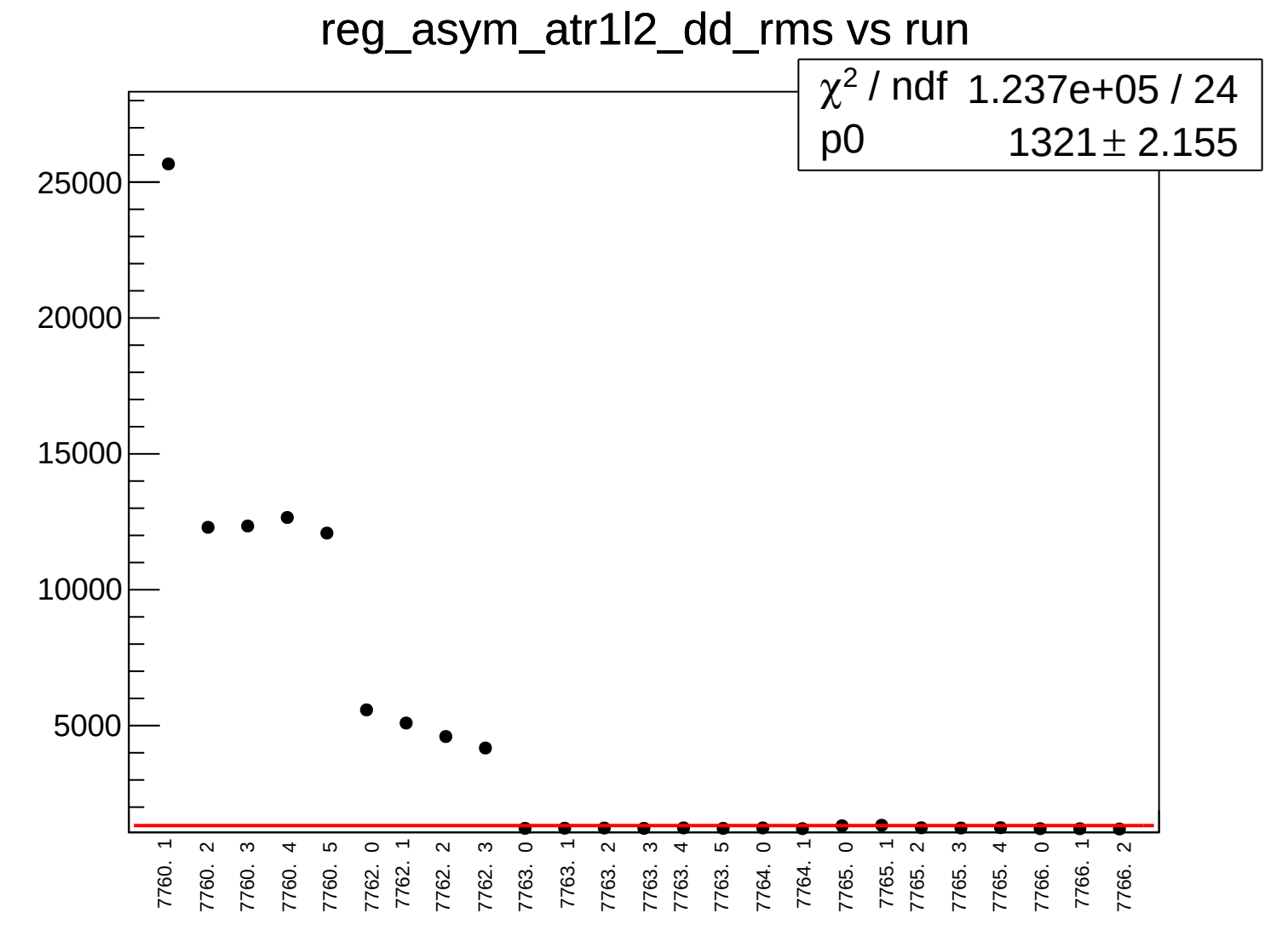

asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 26.31 / 24
p0 −2.162e+04 ± 1.024e+04
600
400
200
0
−200
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −3.105
Std Dev 11.7
1.5
1
0.5
0
−0.5
−1
−1.5
−2

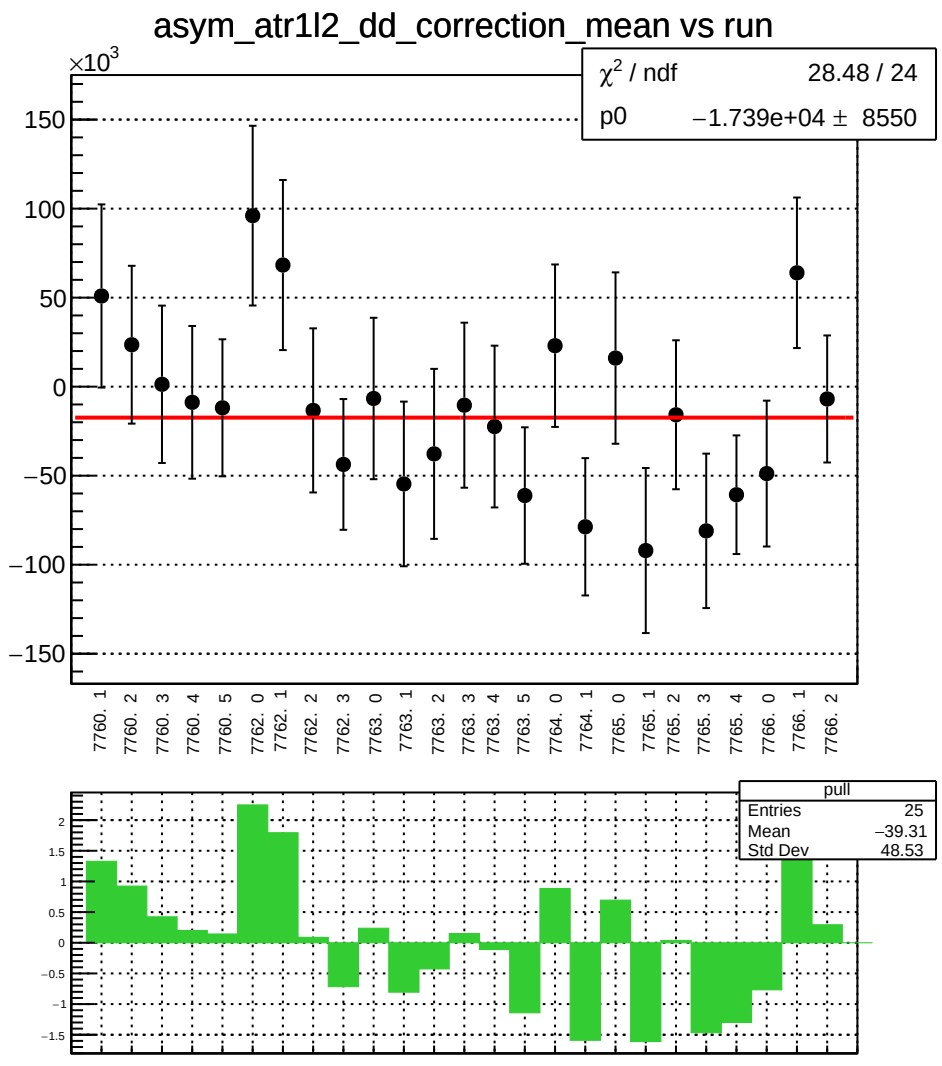

pull1D
Entries 25
Mean 0.1615
Std Dev 1.013
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

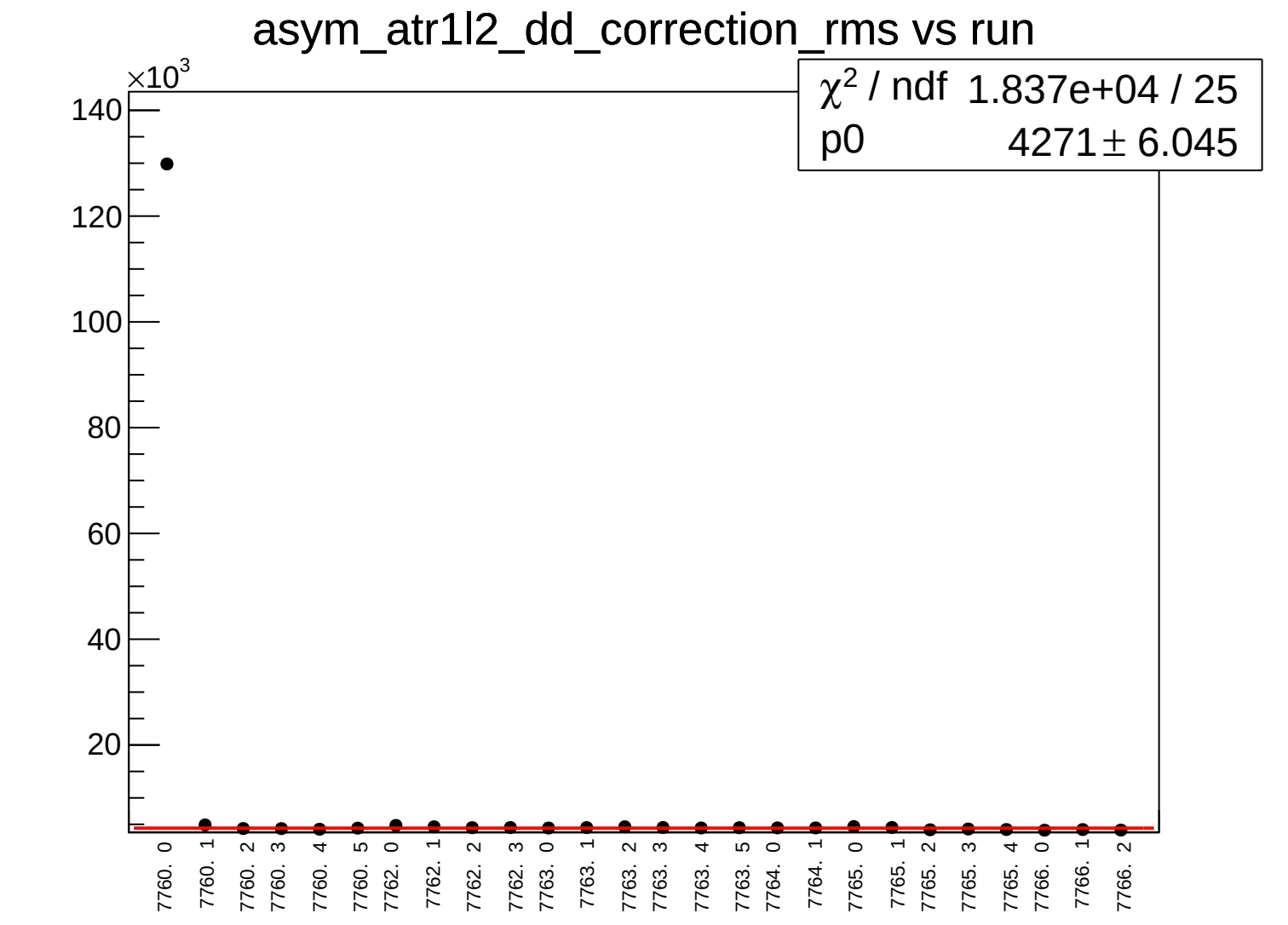

asym_atr1l2_avg_rms vs run
χ² / ndf 5.259e+04 / 24
p0 4842 ± 7.243
25000
20000
15000
10000
5000
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

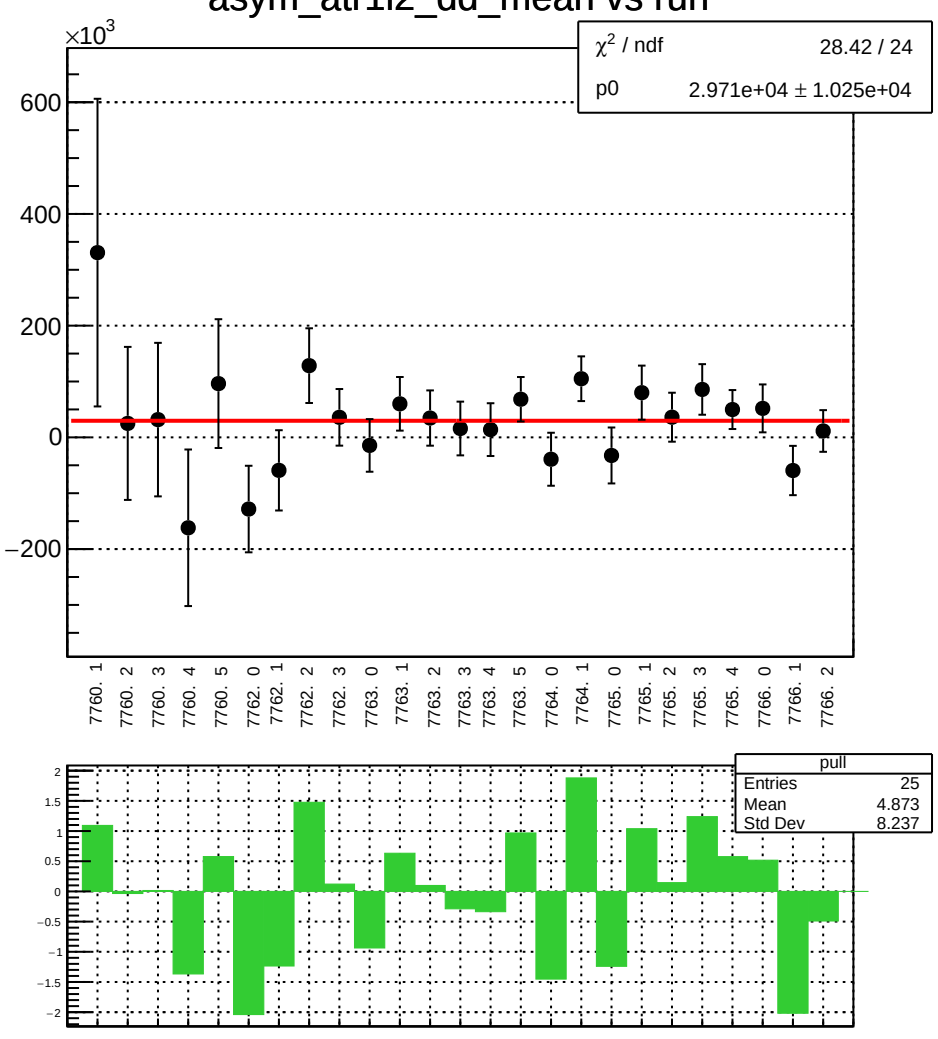

reg_asym_atr1l2_dd_mean vs run
×10^3
χ^2 / ndf 28.01 / 24
p0 832.7 ± 3048
600
400
200
0
−200
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 5.454
Std Dev 9.561
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

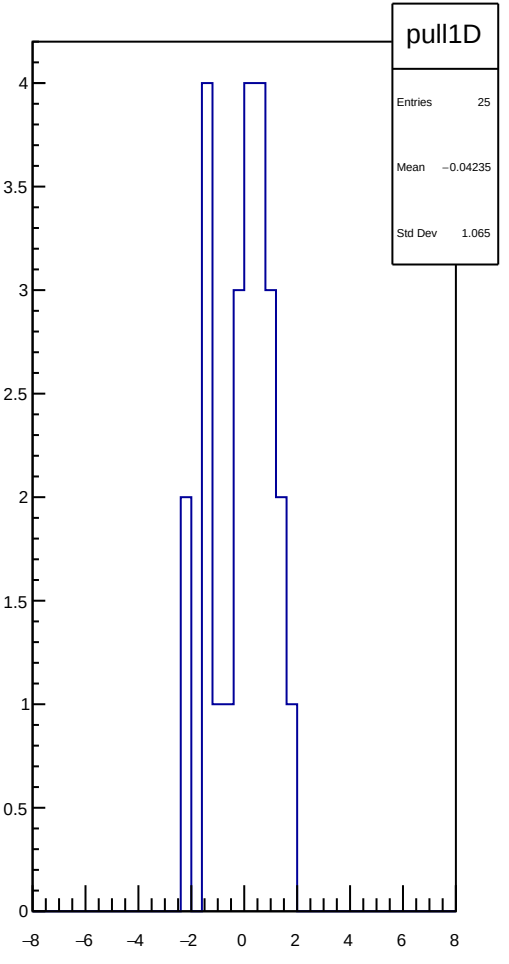

pull1D
Entries 25
Mean 0.08566
Std Dev 1.055
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

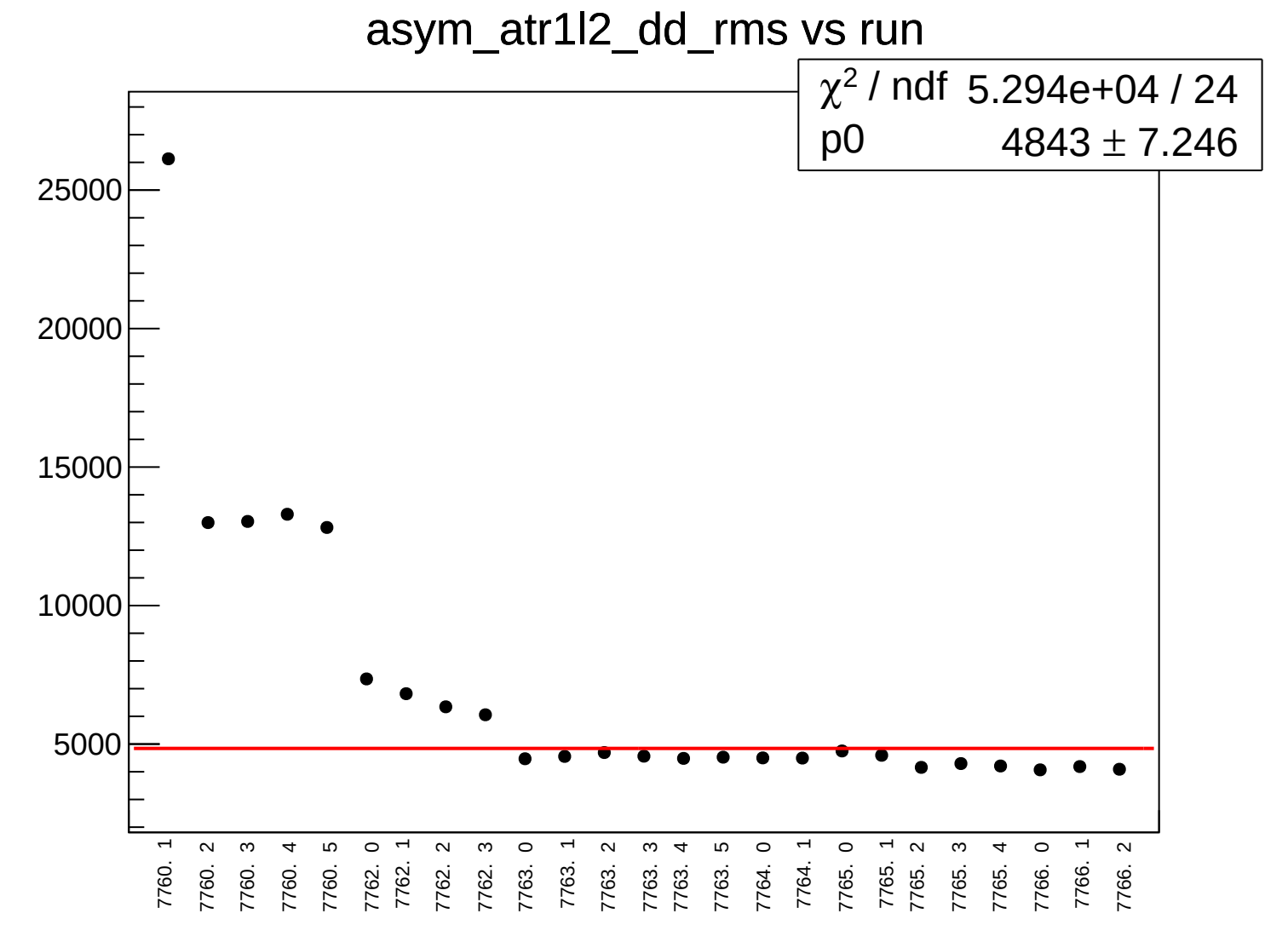

reg_asym_atr1l2_dd_rms vs run
χ² / ndf 1.237e+05 / 24
p0 1321 ± 2.155
25000
20000
15000
10000
5000
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

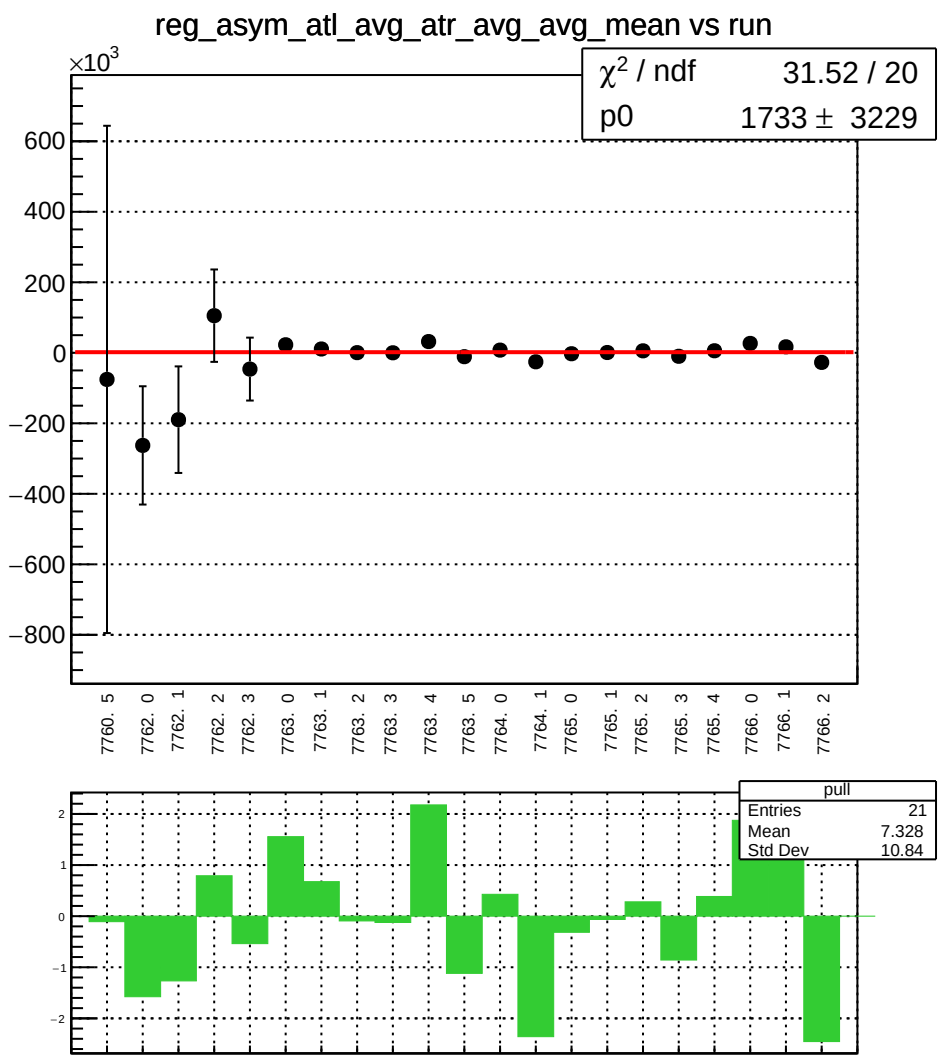

asym_atr1l2_dd_correction_mean vs run
×10^3
χ² / ndf 28.48 / 24
p0 −1.739e+04 ± 8550
150
100
50
0
−50
−100
−150
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −39.31
Std Dev 48.53
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 25
Mean 0.05749
Std Dev 1.066
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

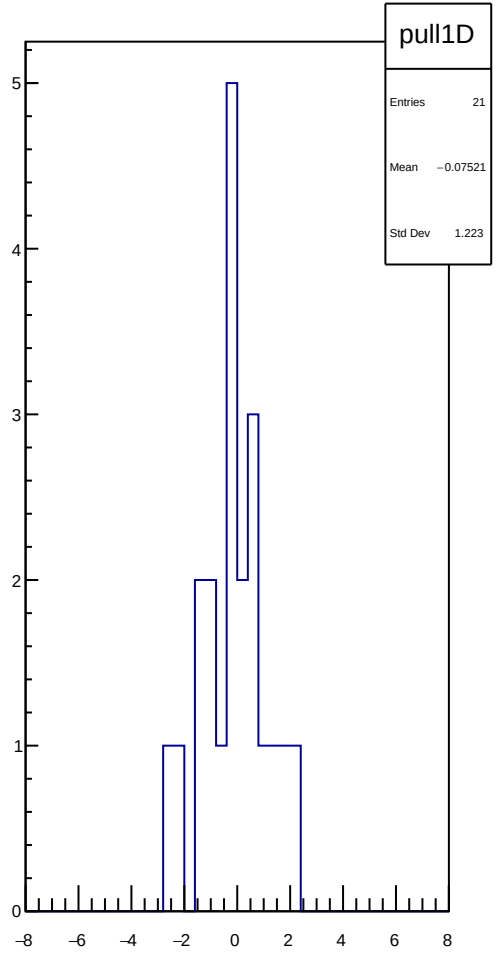

asym_atr1l2_dd_correction_rms vs run
×10^3
140
120
100
80
60
40
20
χ² / ndf 1.837e+04 / 25
p0 4271 ± 6.045
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

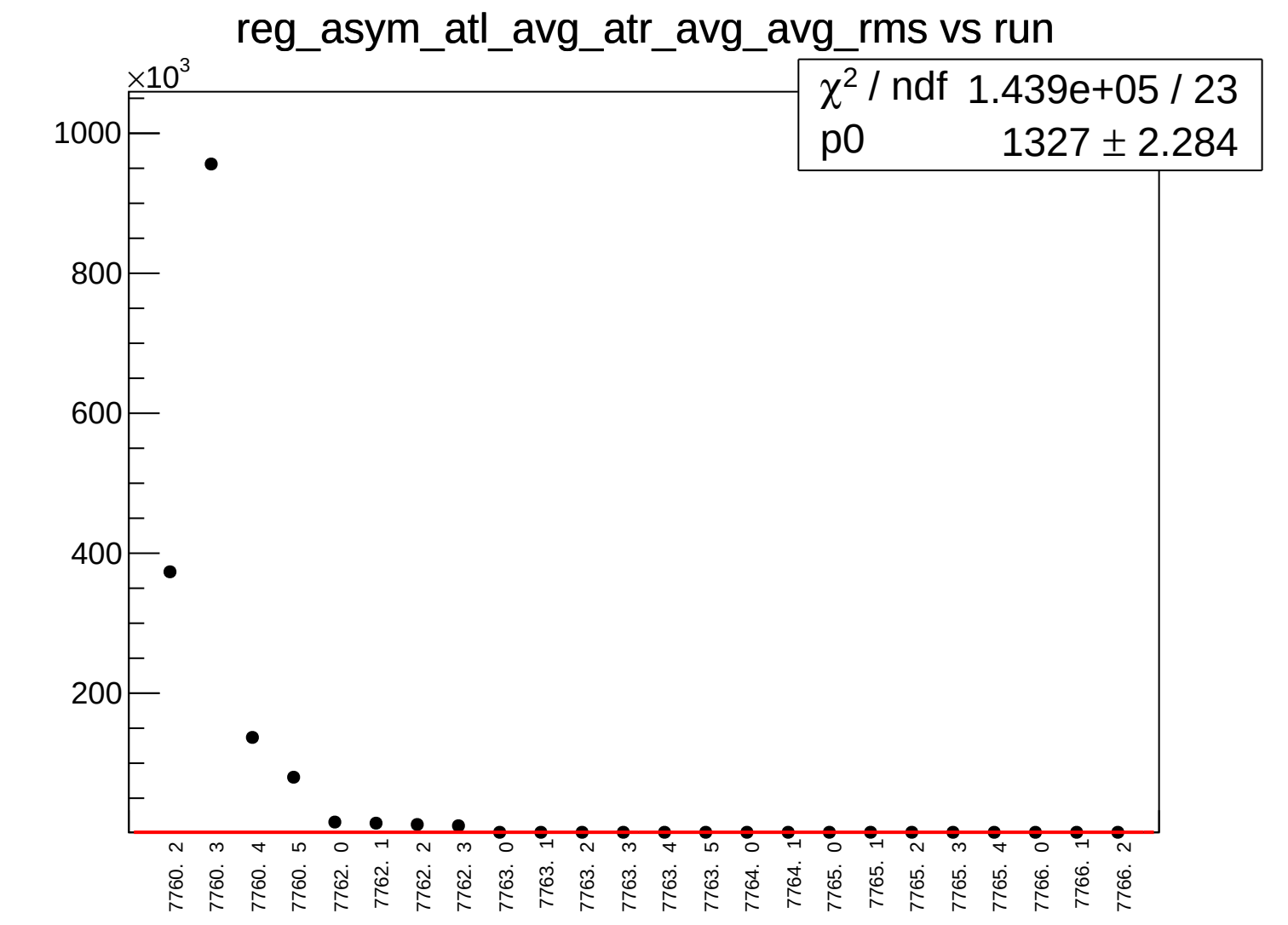

asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 28.42 / 24
p0 2.971e+04 ± 1.025e+04
600
400
200
0
−200
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 4.873
Std Dev 8.237
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

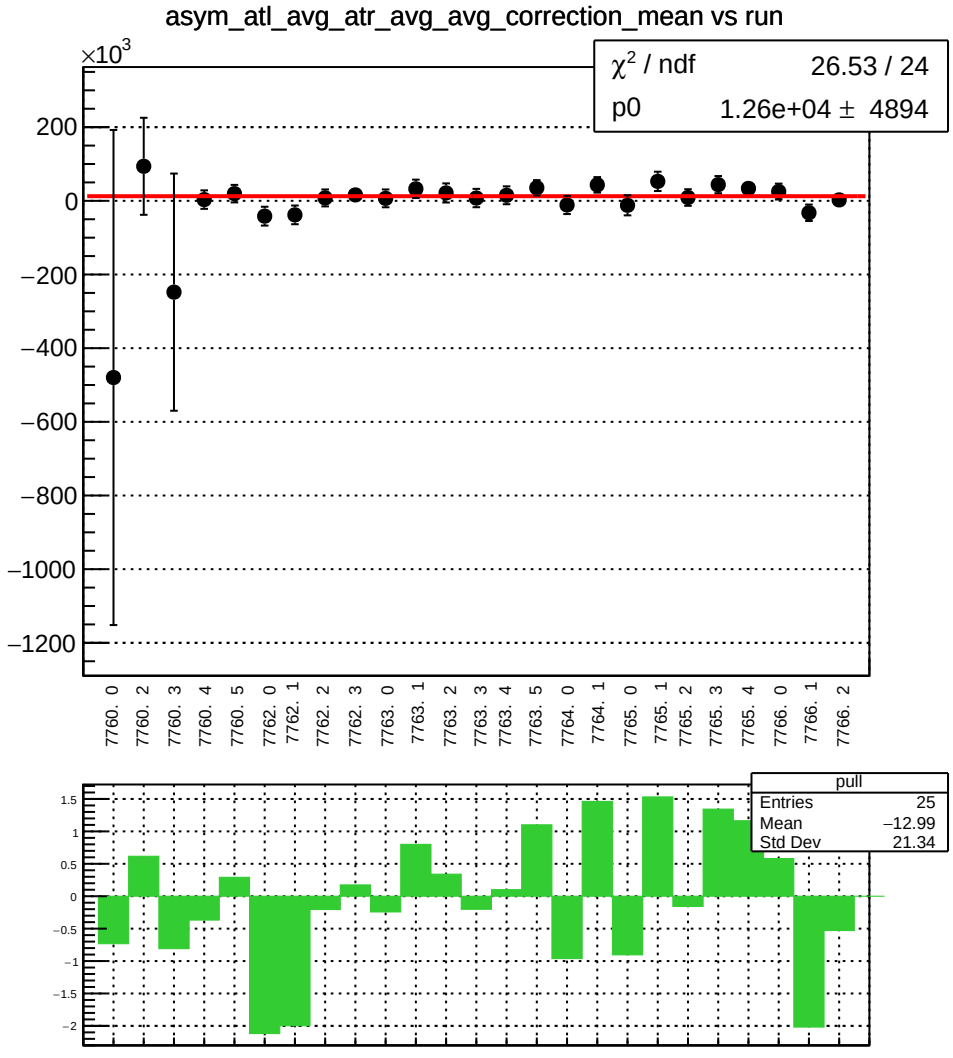

pull1D
Entries 25
Mean −0.04235
Std Dev 1.065
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

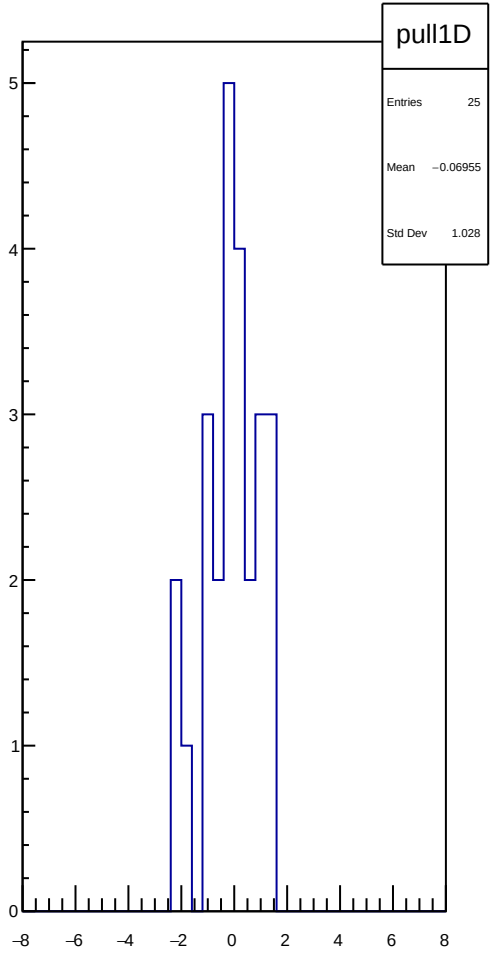

asym_atr1l2_dd_rms vs run
χ² / ndf 5.294e+04 / 24
p0 4843 ± 7.246
25000
20000
15000
10000
5000
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

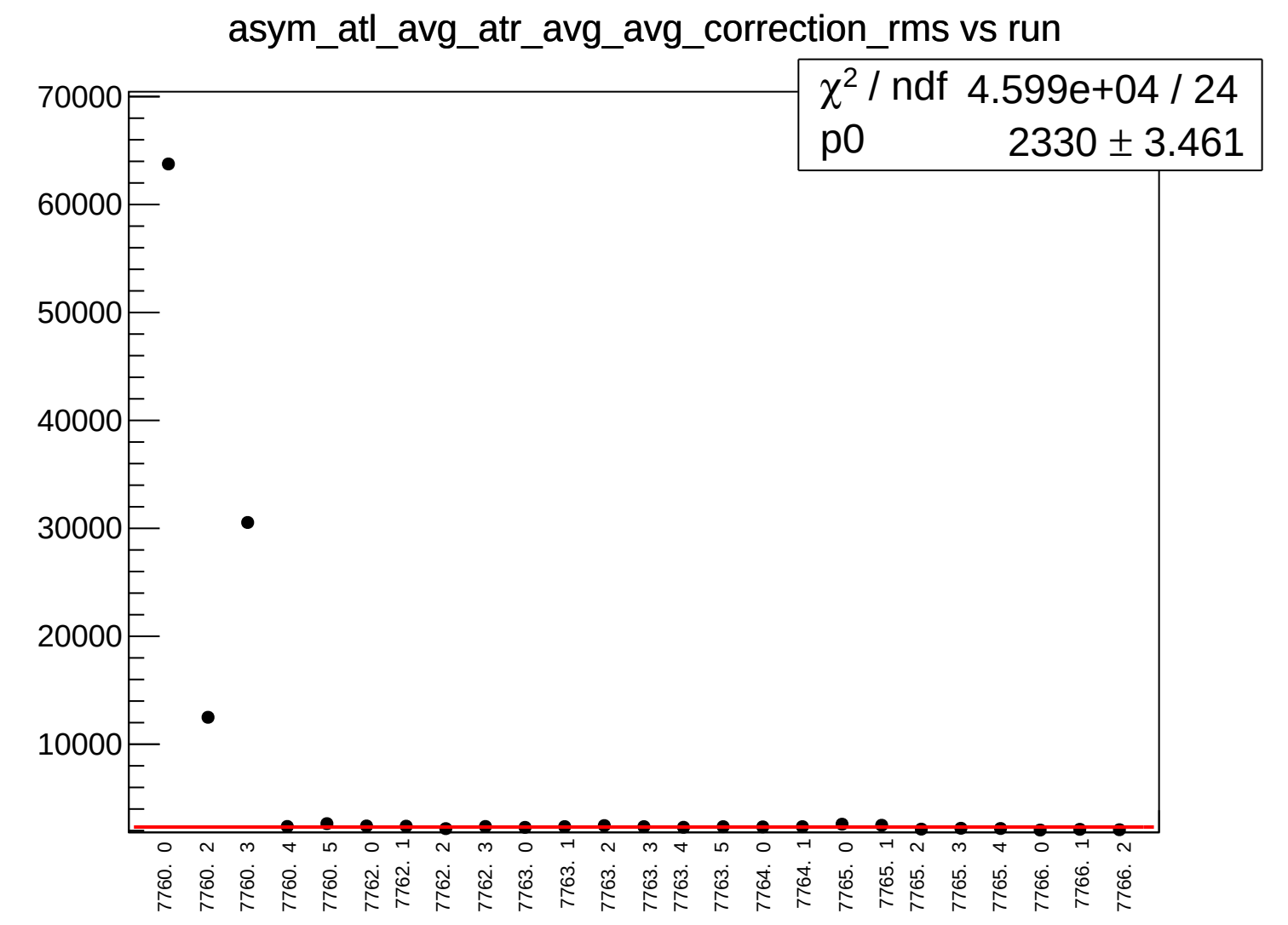

reg_asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ^2 / ndf 31.52 / 20
p0 1733 ± 3229
600
400
200
0
−200
−400
−600
−800
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 21
Mean 7.328
Std Dev 10.84
2
1
0
−1
−2

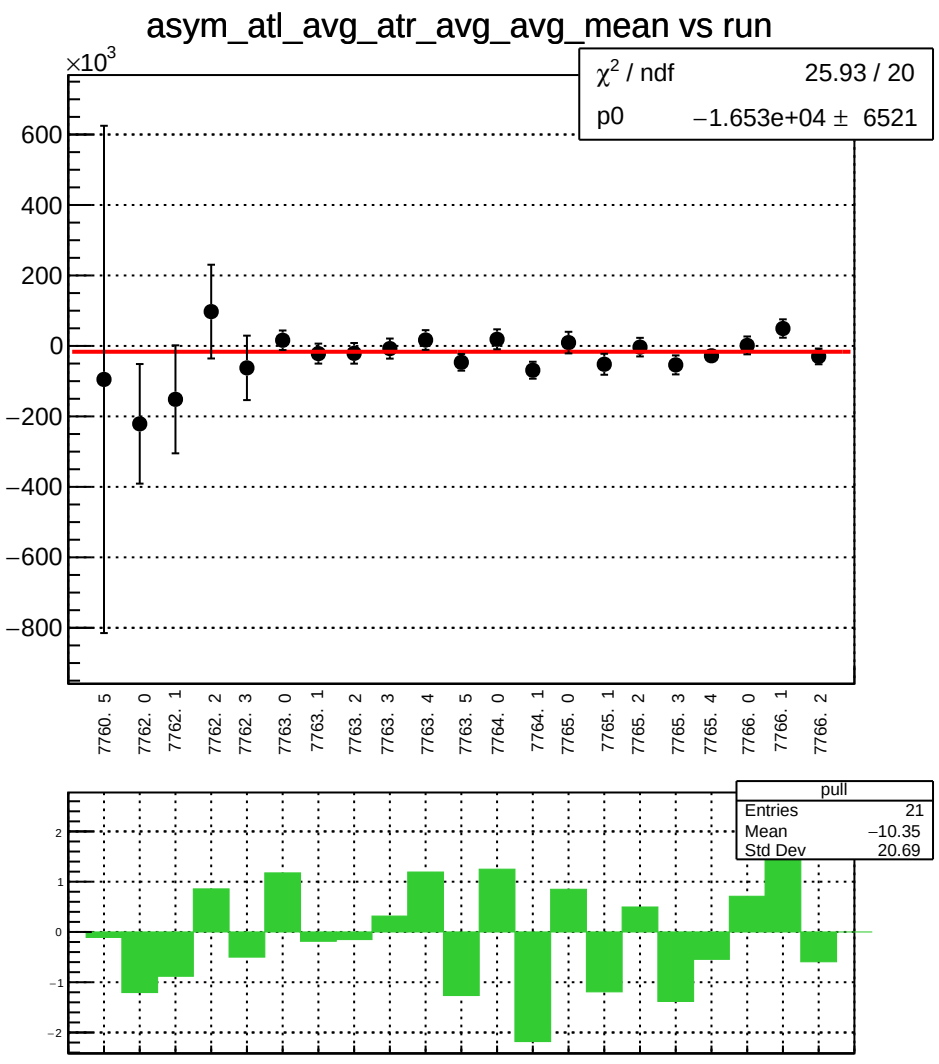

pull1D
Entries 21
Mean −0.07521
Std Dev 1.223
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

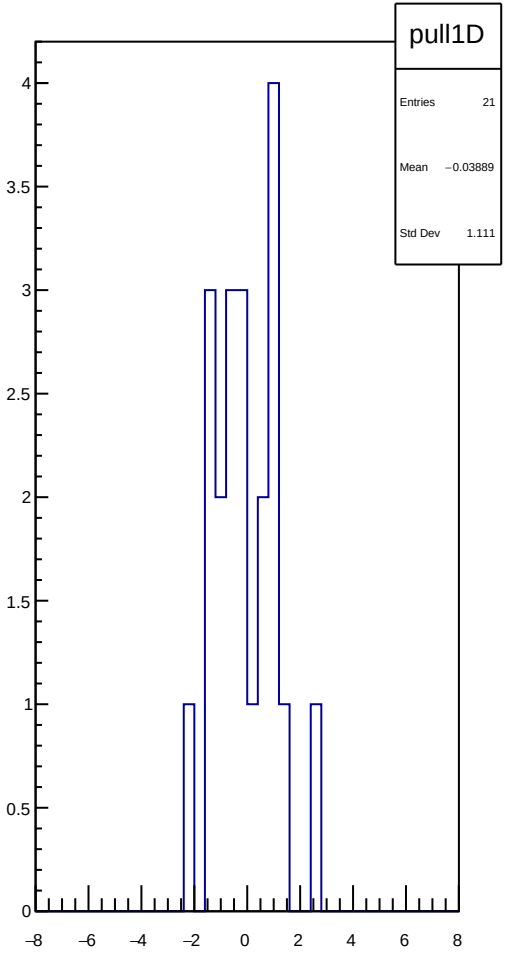

reg_asym_atl_avg_atr_avg_avg_rms vs run
×10^3
χ² / ndf 1.439e+05 / 23
p0 1327 ± 2.284
1000
800
600
400
200
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

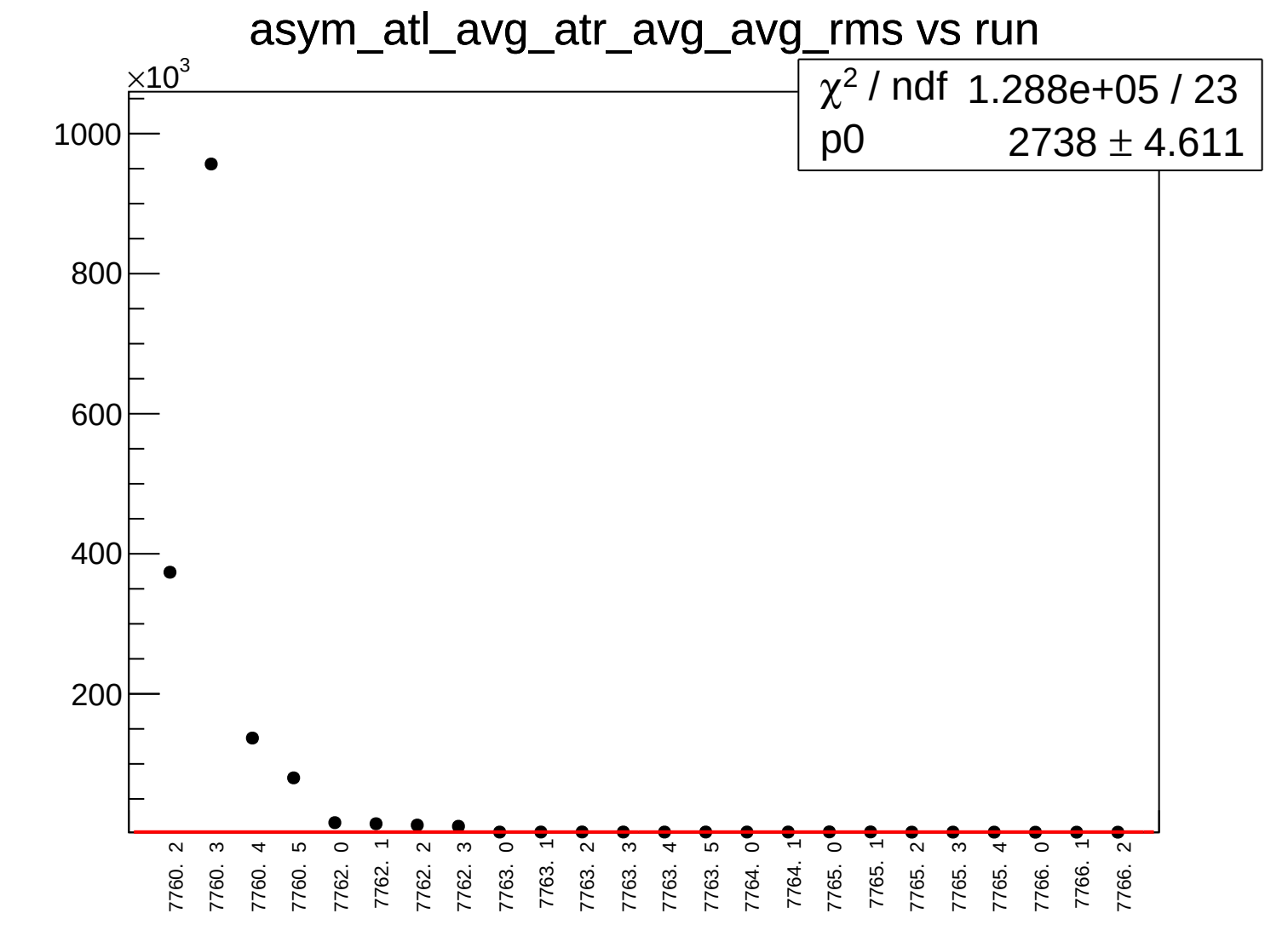

asym_atl_avg_atr_avg_avg_correction_mean vs run
×10^3
χ² / ndf 26.53 / 24
p0 1.26e+04 ± 4894
200
0
−200
−400
−600
−800
−1000
−1200
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −12.99
Std Dev 21.34
1.5
1
0.5
0
−0.5
−1
−1.5
−2

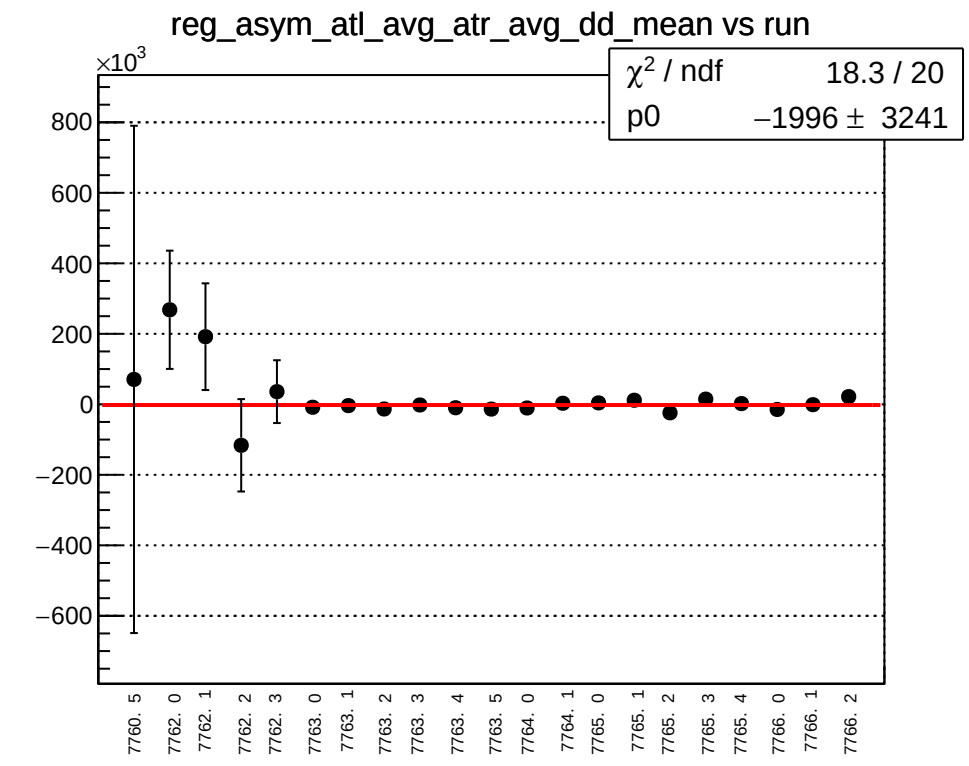

pull1D
Entries 25
Mean −0.06955
Std Dev 1.028
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

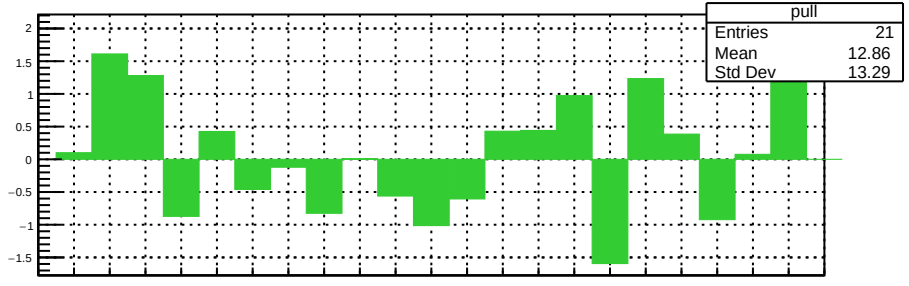

asym_atl_avg_atr_avg_avg_correction_rms vs run
χ^2 / ndf 4.599e+04 / 24
p0 2330 ± 3.461
70000
60000
50000
40000
30000
20000
10000
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

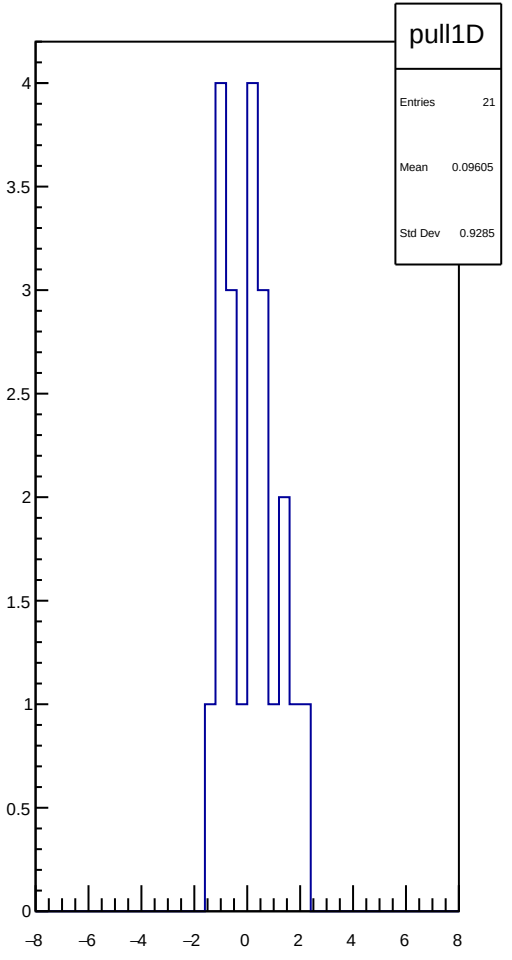

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 25.93 / 20
p0 −1.653e+04 ± 6521
600
400
200
0
−200
−400
−600
−800
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 21
Mean −10.35
Std Dev 20.69
2
1
0
−1
−2

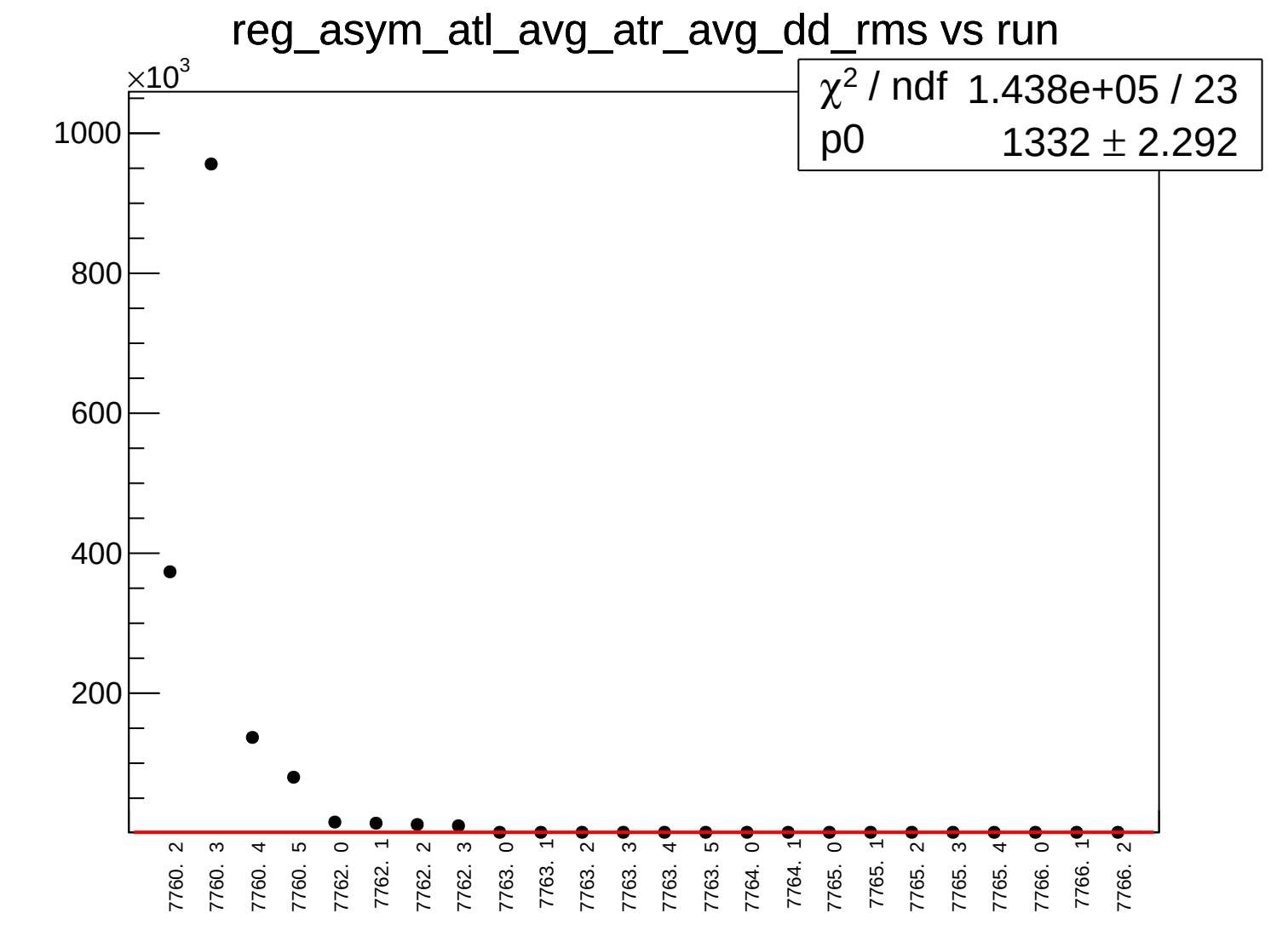

pull1D
Entries 21
Mean −0.03889
Std Dev 1.111
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

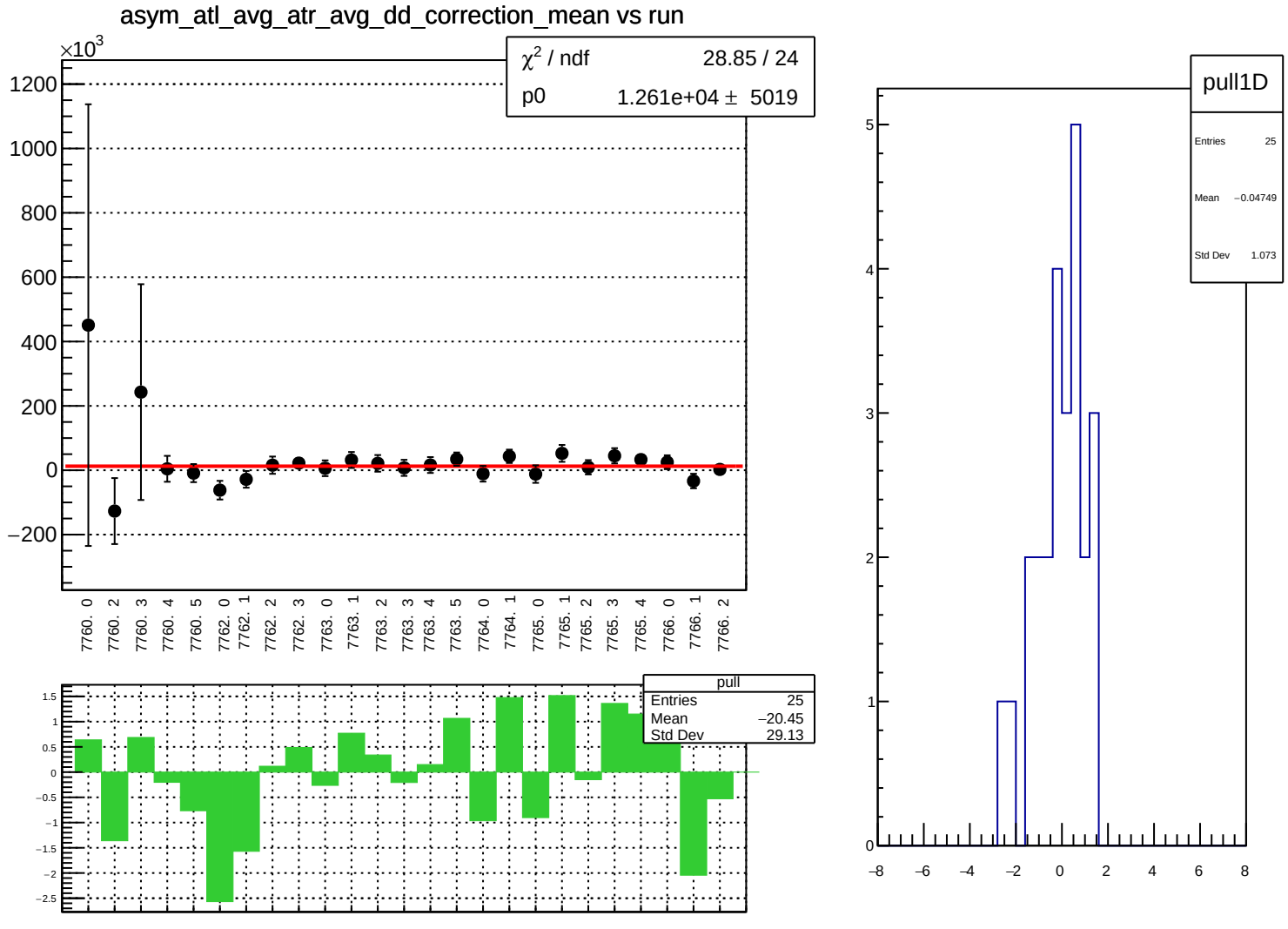

asym_atl_avg_atr_avg_avg_rms vs run
×10^3
1000
800
600
400
200
χ² / ndf 1.288e+05 / 23
p0 2738 ± 4.611
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

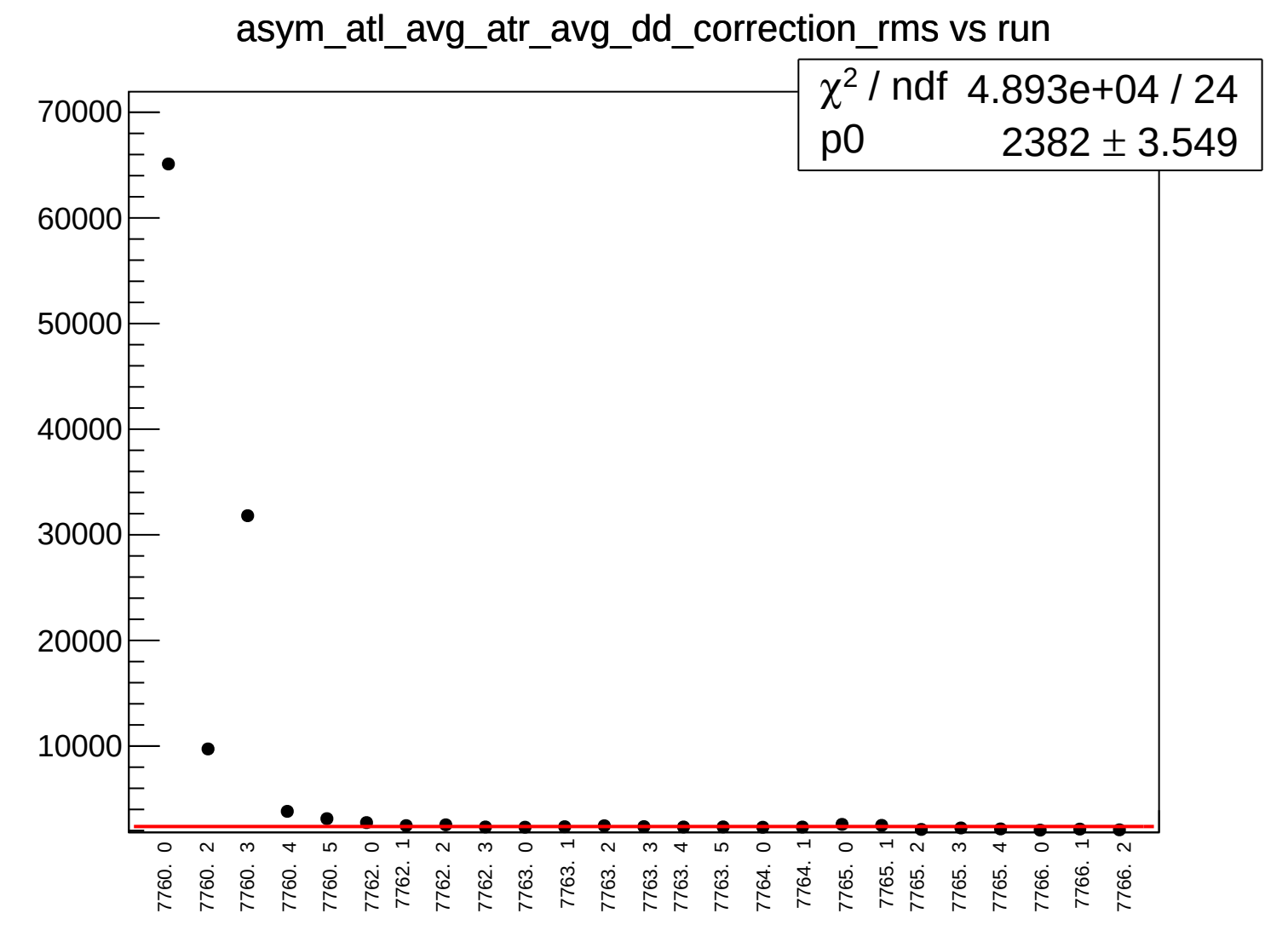

reg_asym_atl_avg_atr_avg_dd_mean vs run
×10^3
χ^2 / ndf 18.3 / 20
p0 −1996 ± 3241
800
600
400
200
0
−200
−400
−600
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

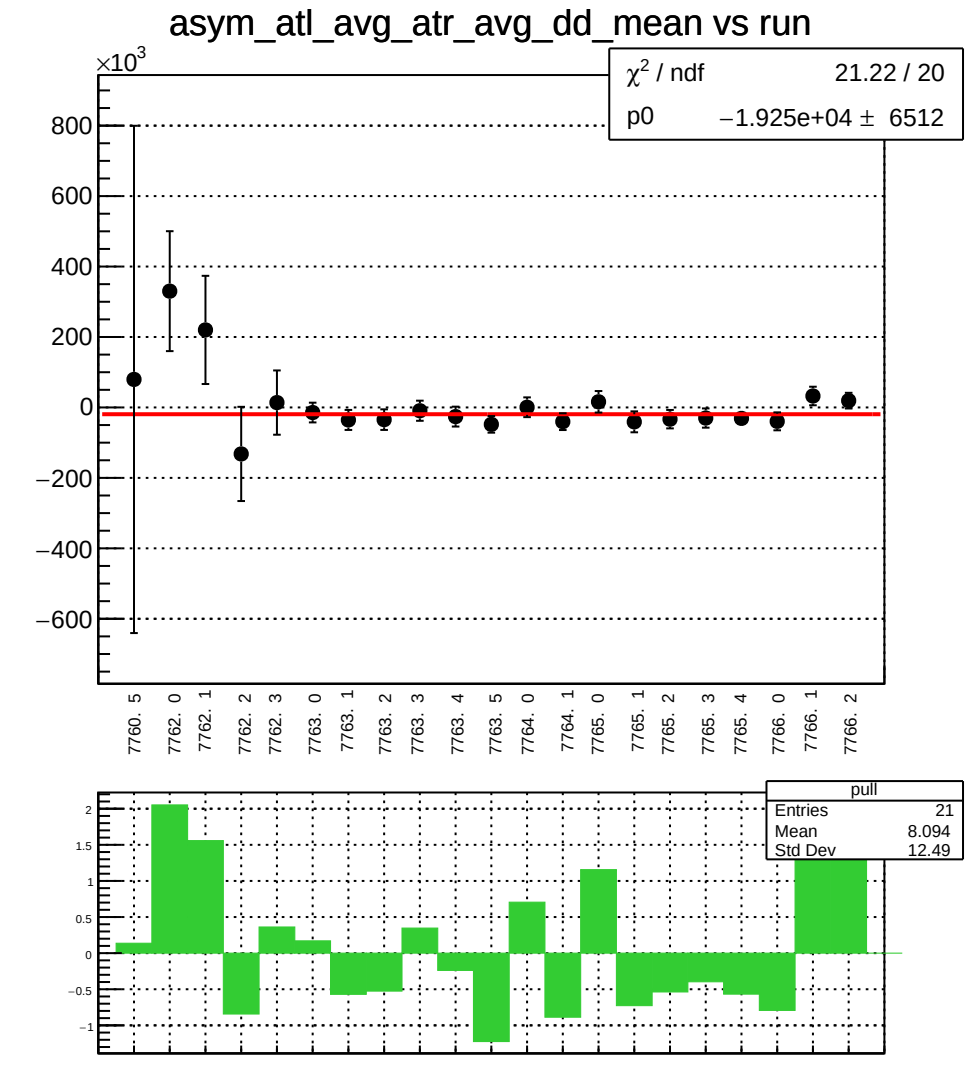

pull
Entries 21
Mean 12.86
Std Dev 13.29
2
1.5
1
0.5
0
−0.5
−1
−1.5

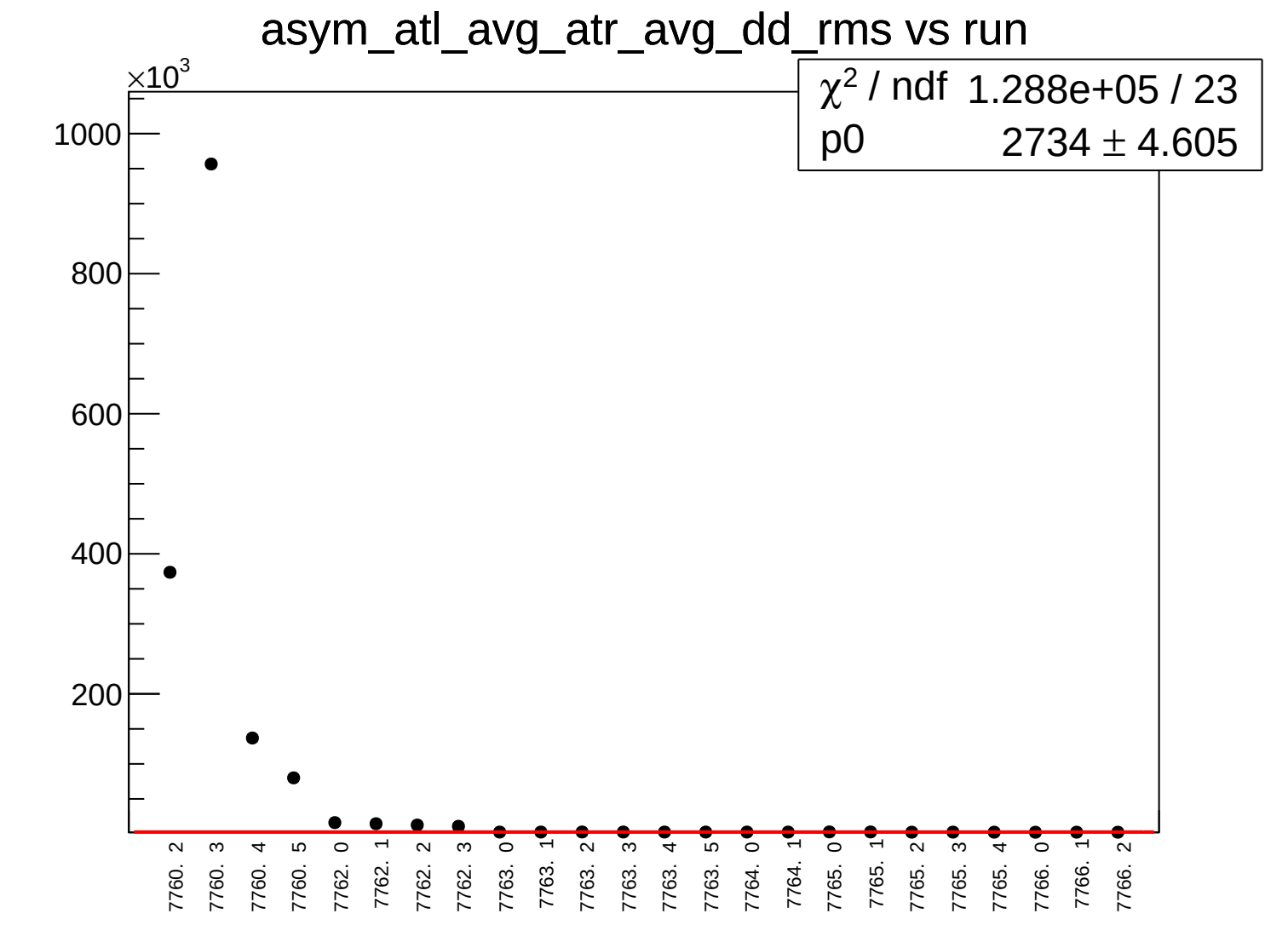

pull1D
Entries 21
Mean 0.09605
Std Dev 0.9285
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

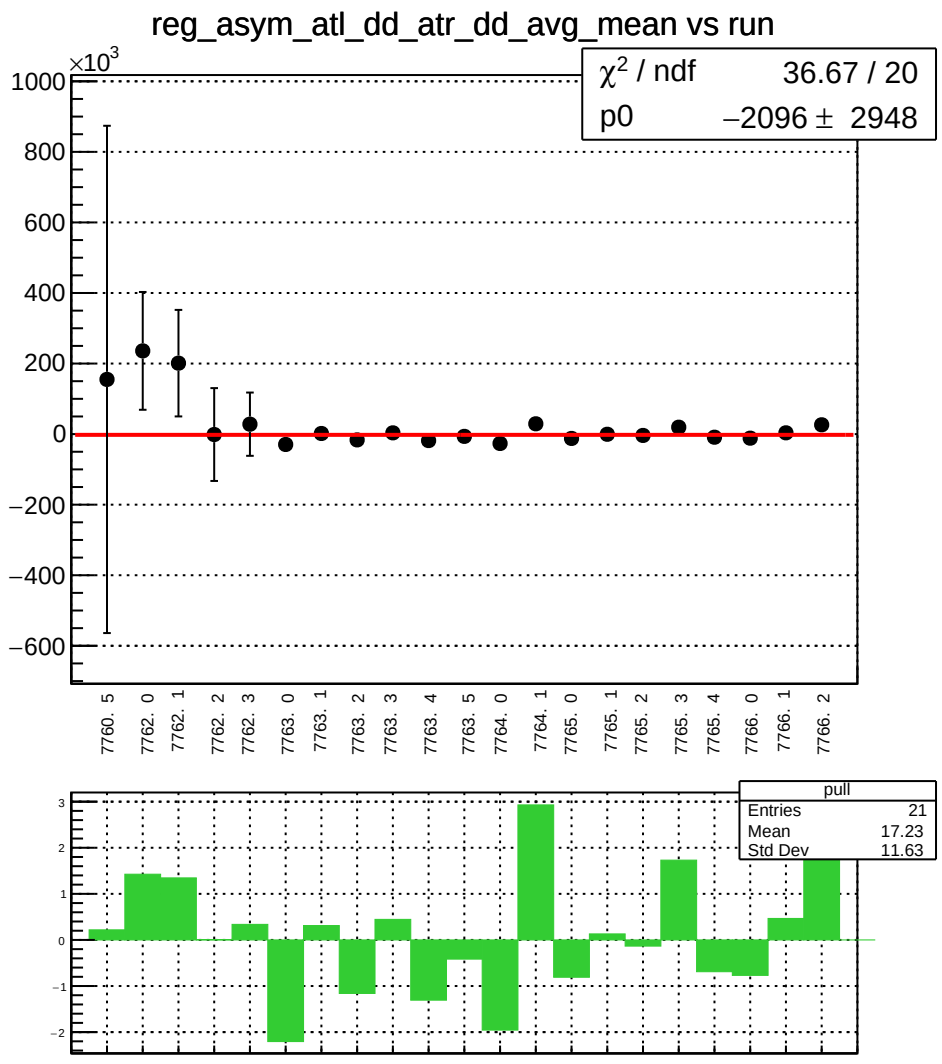

reg_asym_atl_avg_atr_avg_dd_rms vs run
×10^3
1000
800
600
400
200
χ² / ndf 1.438e+05 / 23
p0 1332 ± 2.292
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

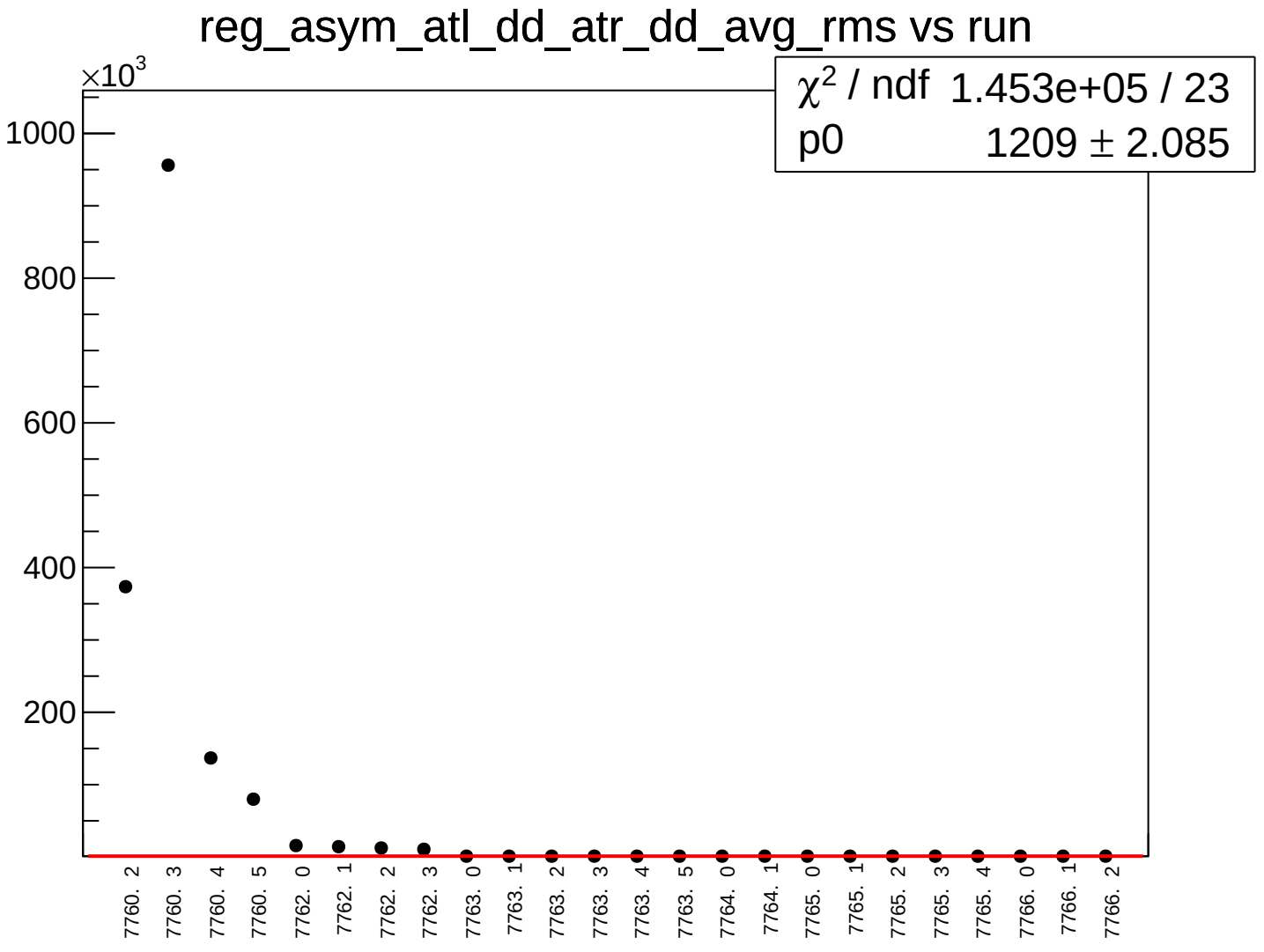

asym_atl_avg_atr_avg_dd_correction_mean vs run
×10^3
χ² / ndf 28.85 / 24
p0 1.261e+04 ± 5019
1200
1000
800
600
400
200
0
−200
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −20.45
Std Dev 29.13
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 25
Mean −0.04749
Std Dev 1.073
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 4.893e+04 / 24
p0 2382 ± 3.549
70000
60000
50000
40000
30000
20000
10000
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
7765. 4
7766. 0
7766. 1
7766. 2


asym_atl_avg_atr_avg_dd_mean vs run
×10^3
χ² / ndf 21.22 / 20
p0 −1.925e+04 ± 6512
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
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 21
Mean 8.094
Std Dev 12.49
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 21
Mean 0.1369
Std Dev 0.9959
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_avg_atr_avg_dd_rms vs run
×10^3
1000
800
600
400
200
χ² / ndf 1.288e+05 / 23
p0 2734 ± 4.605
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2


reg_asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 36.67 / 20
p0 −2096 ± 2948
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
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 21
Mean 17.23
Std Dev 11.63
3
2
1
0
−1
−2
pull1D
Entries 21
Mean 0.1205
Std Dev 1.316
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl_dd_atr_dd_avg_rms vs run
×10^3
1000
800
600
400
200
χ² / ndf 1.453e+05 / 23
p0 1209 ± 2.085
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
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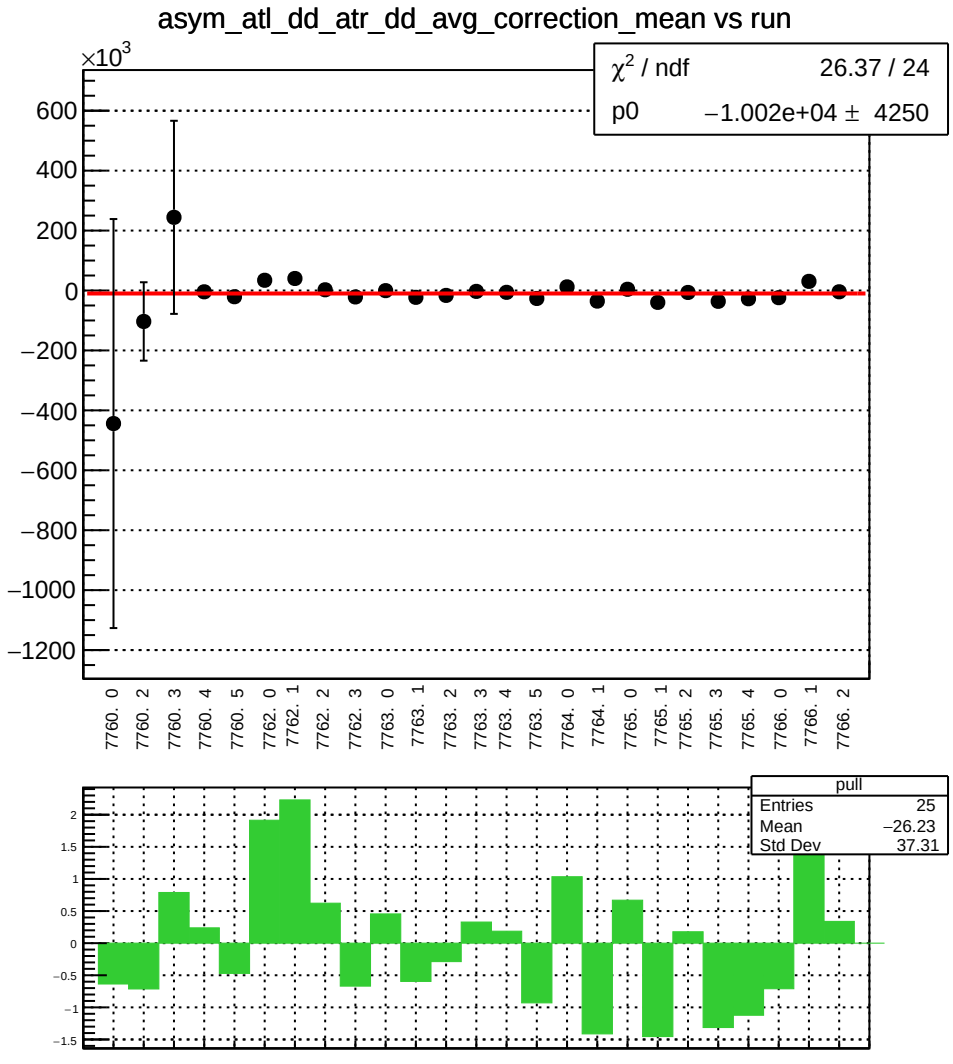
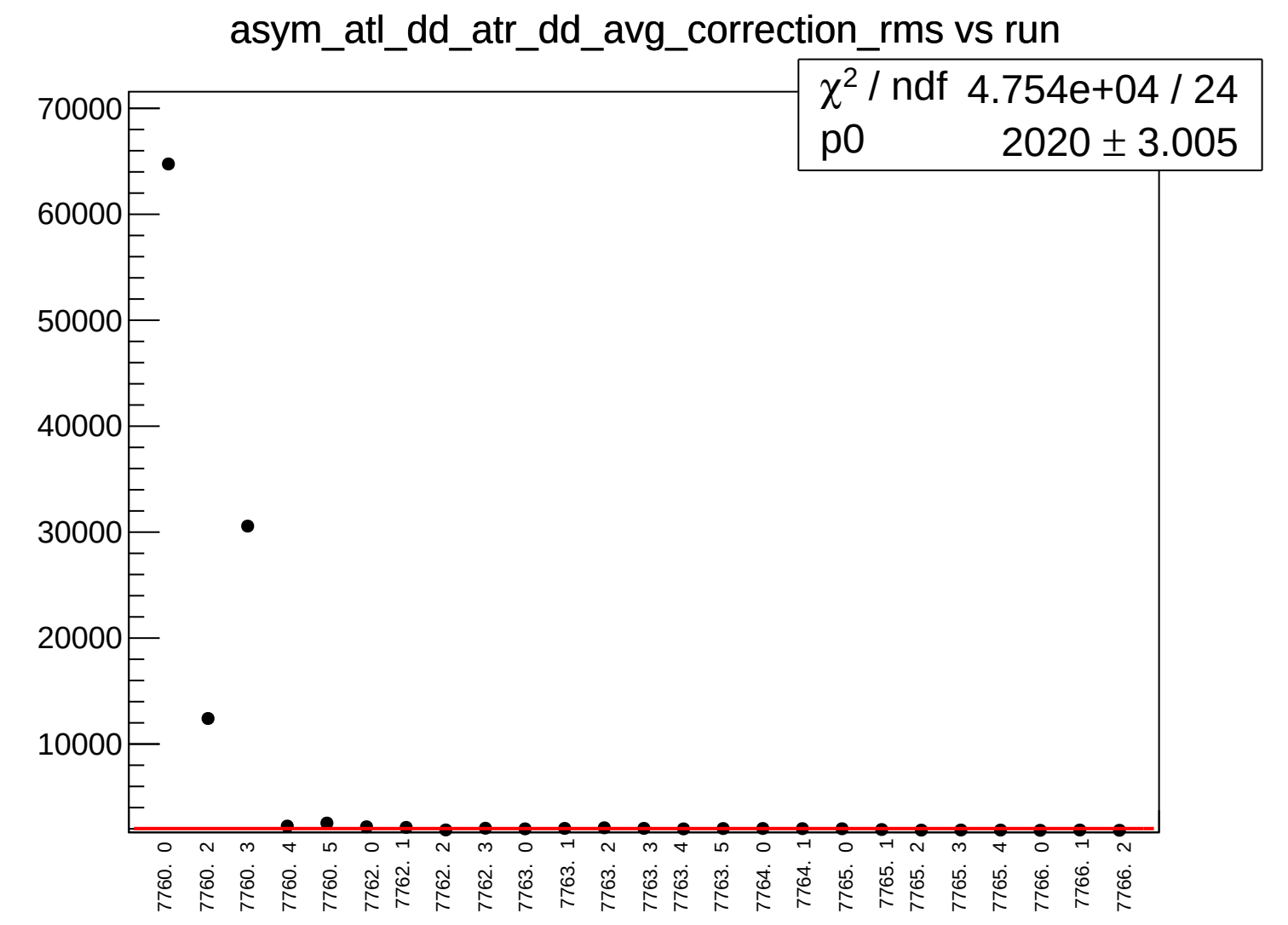
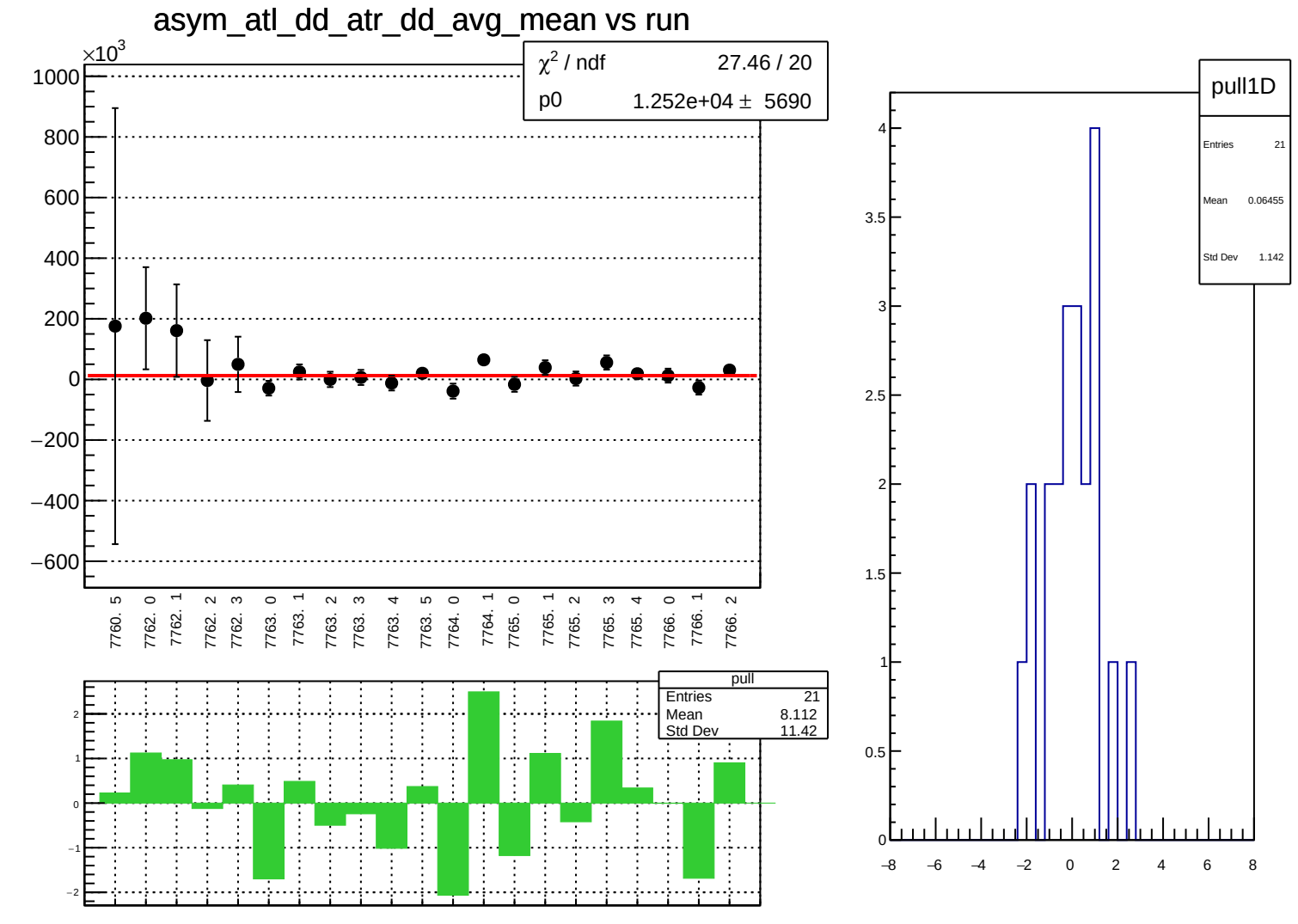
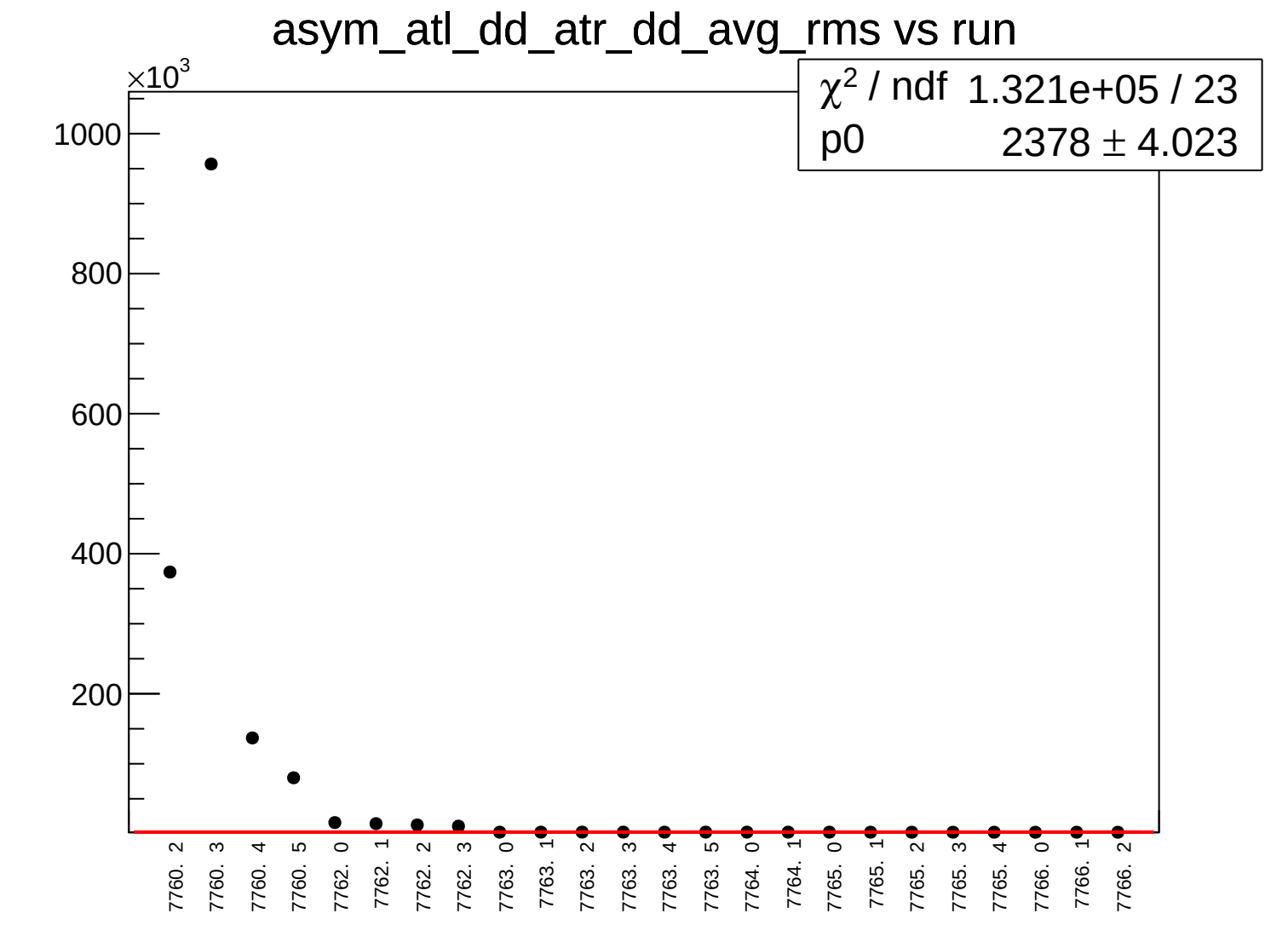
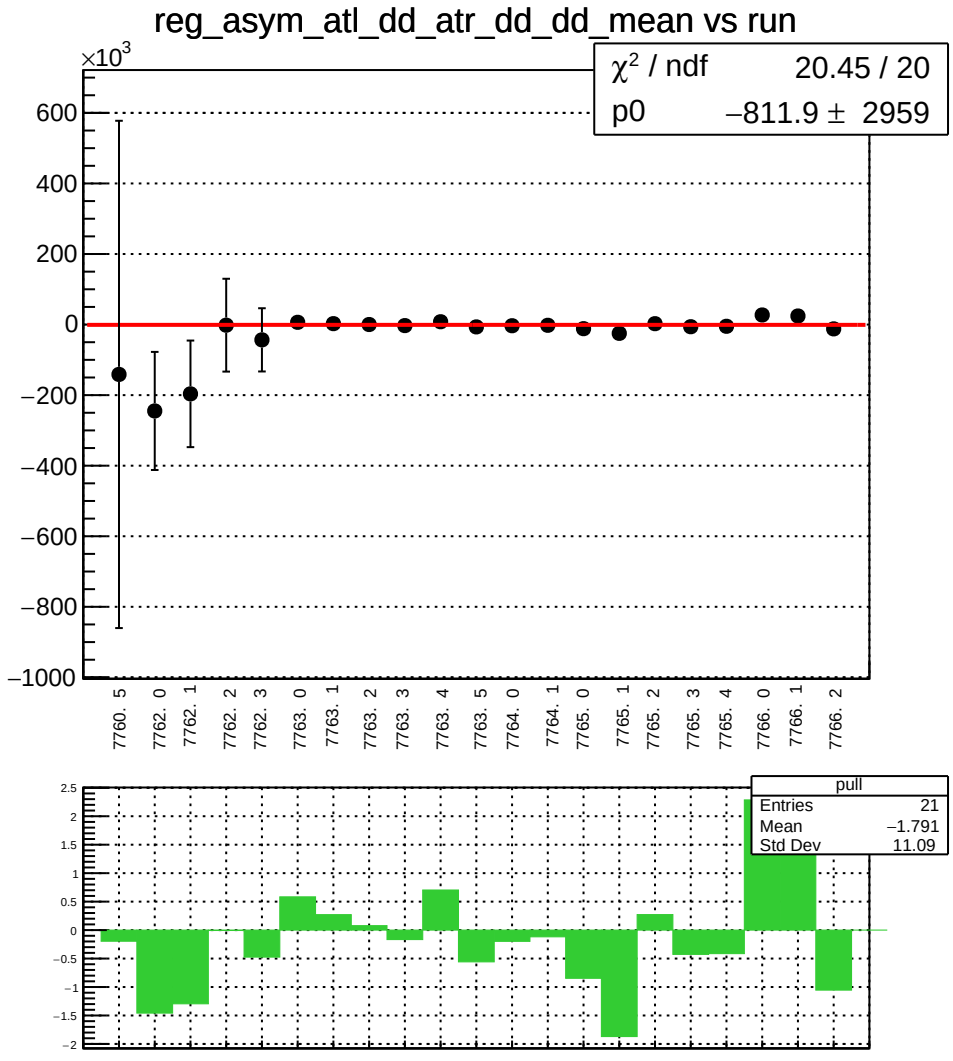
7766. 1
7766. 2

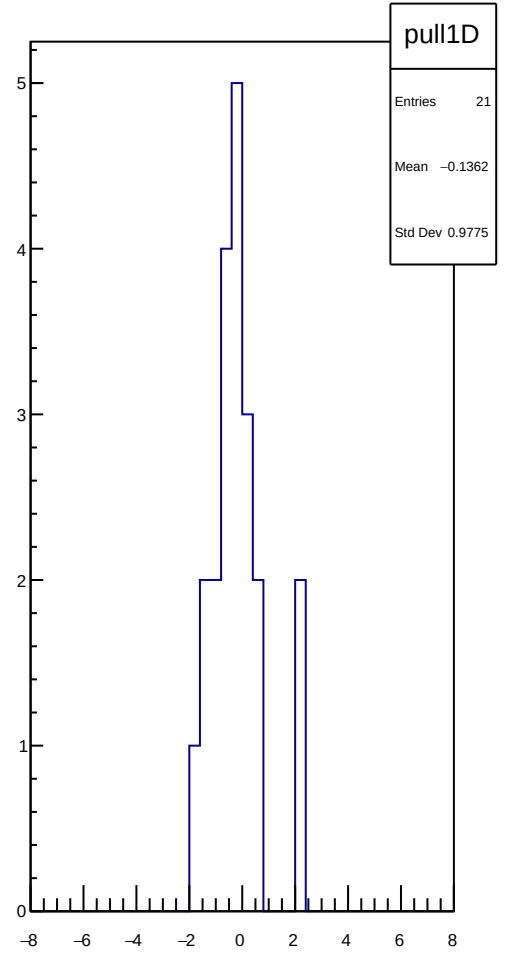

asym_atl_dd_atr_dd_avg_correction_mean vs run
×10^3
χ² / ndf 26.37 / 24
p0 −1.002e+04 ± 4250
600
400
200
0
−200
−400
−600
−800
−1000
−1200
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −26.23
Std Dev 37.31
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 25
Mean 0.02837
Std Dev 1.027
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

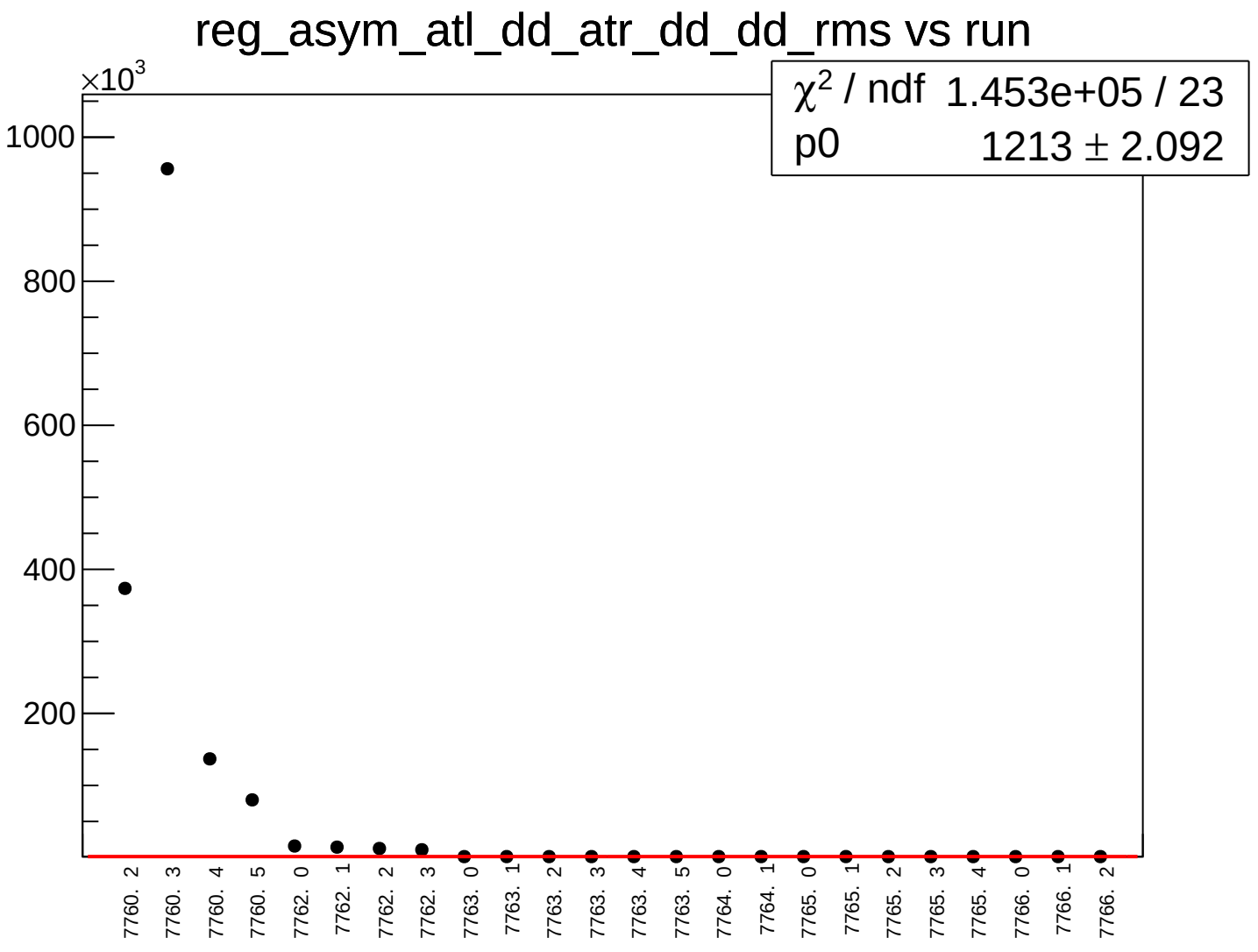

asym_atl_dd_atr_dd_avg_correction_rms vs run
χ² / ndf 4.754e+04 / 24
p0 2020 ± 3.005
70000
60000
50000
40000
30000
20000
10000
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

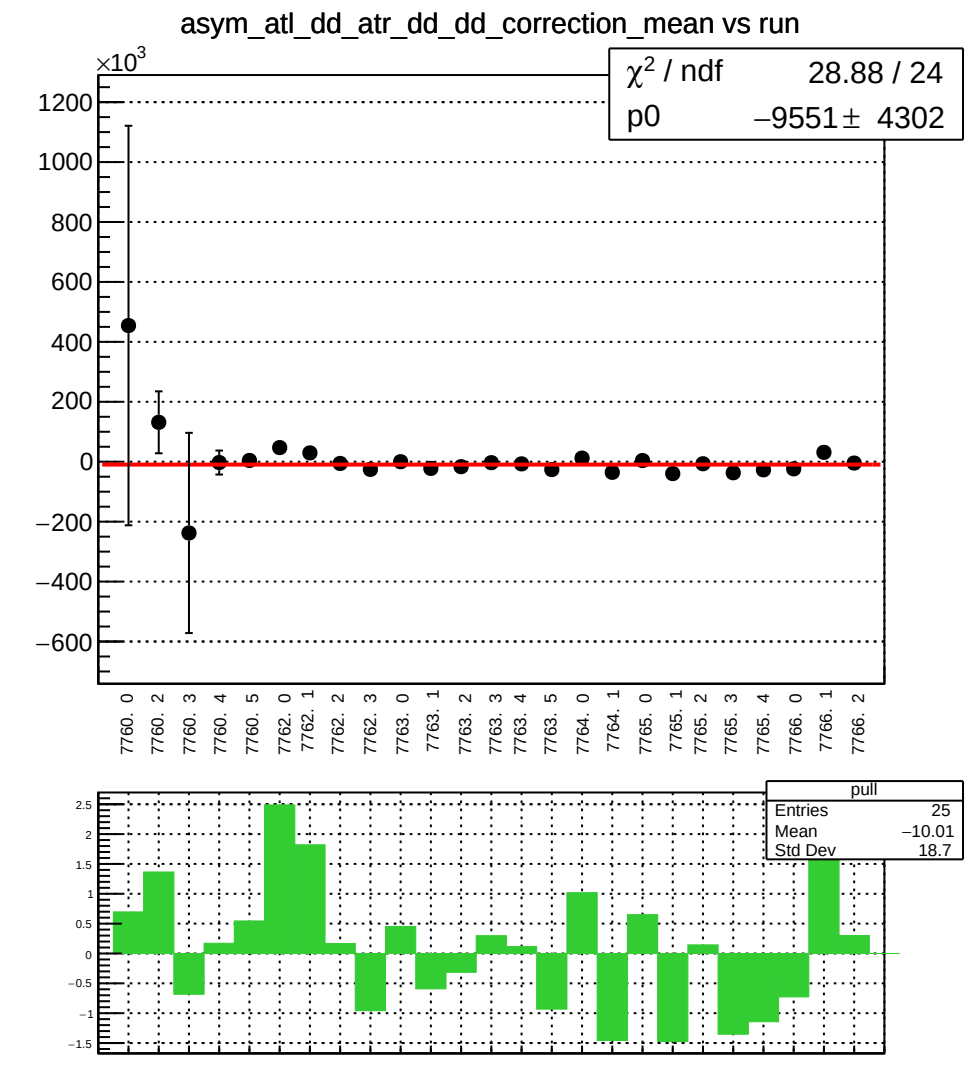

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 27.46 / 20
p0 1.252e+04 ± 5690
1000
800
600
400
200
0
−200
−400
−600
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 21
Mean 8.112
Std Dev 11.42
2
1
0
−1
−2
pull1D
Entries 21
Mean 0.06455
Std Dev 1.142
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

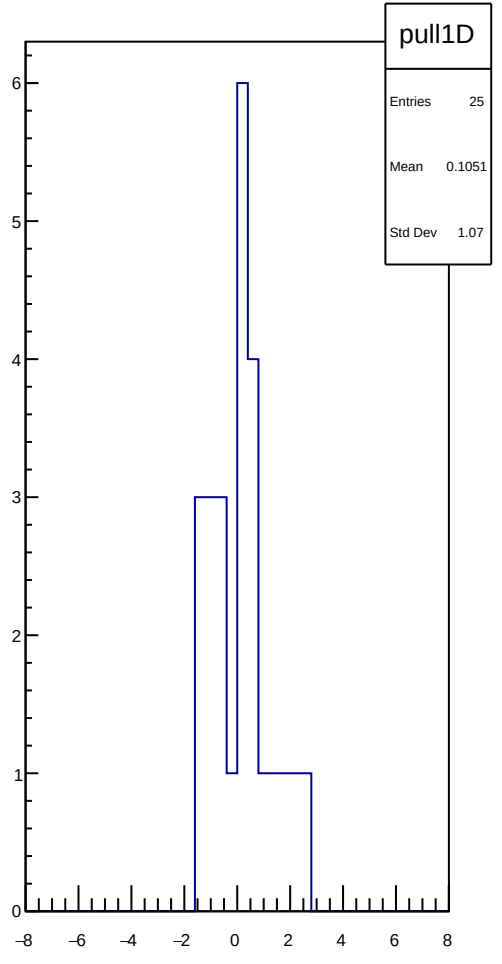

asym_atl_dd_atr_dd_avg_rms vs run
×10^3
1000
800
600
400
200
χ² / ndf 1.321e+05 / 23
p0 2378 ± 4.023
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

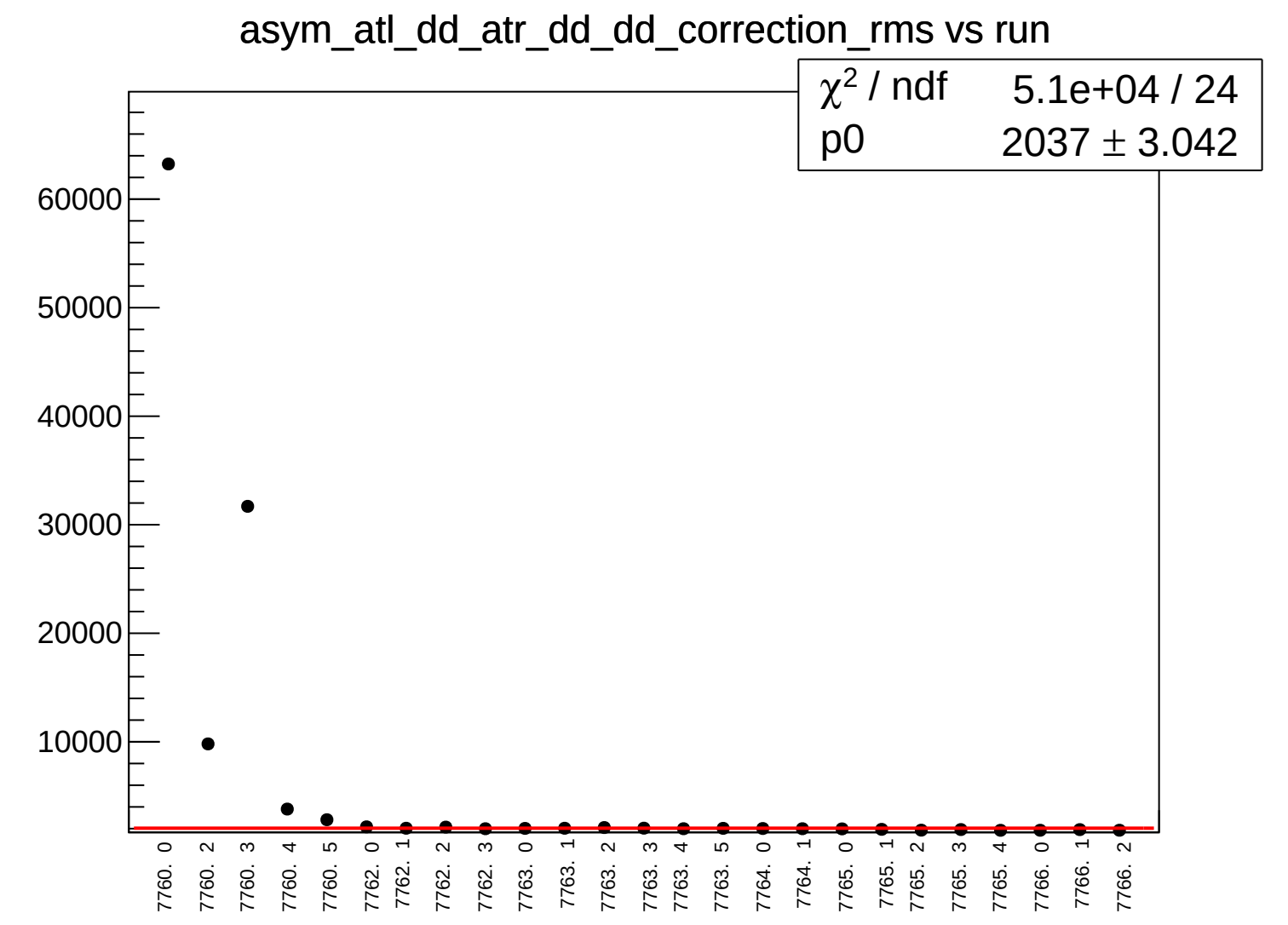

reg_asym_atl_dd_atr_dd_dd_mean vs run
×10^3
χ² / ndf 20.45 / 20
p0 −811.9 ± 2959
600
400
200
0
−200
−400
−600
−800
−1000
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 21
Mean −1.791
Std Dev 11.09
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

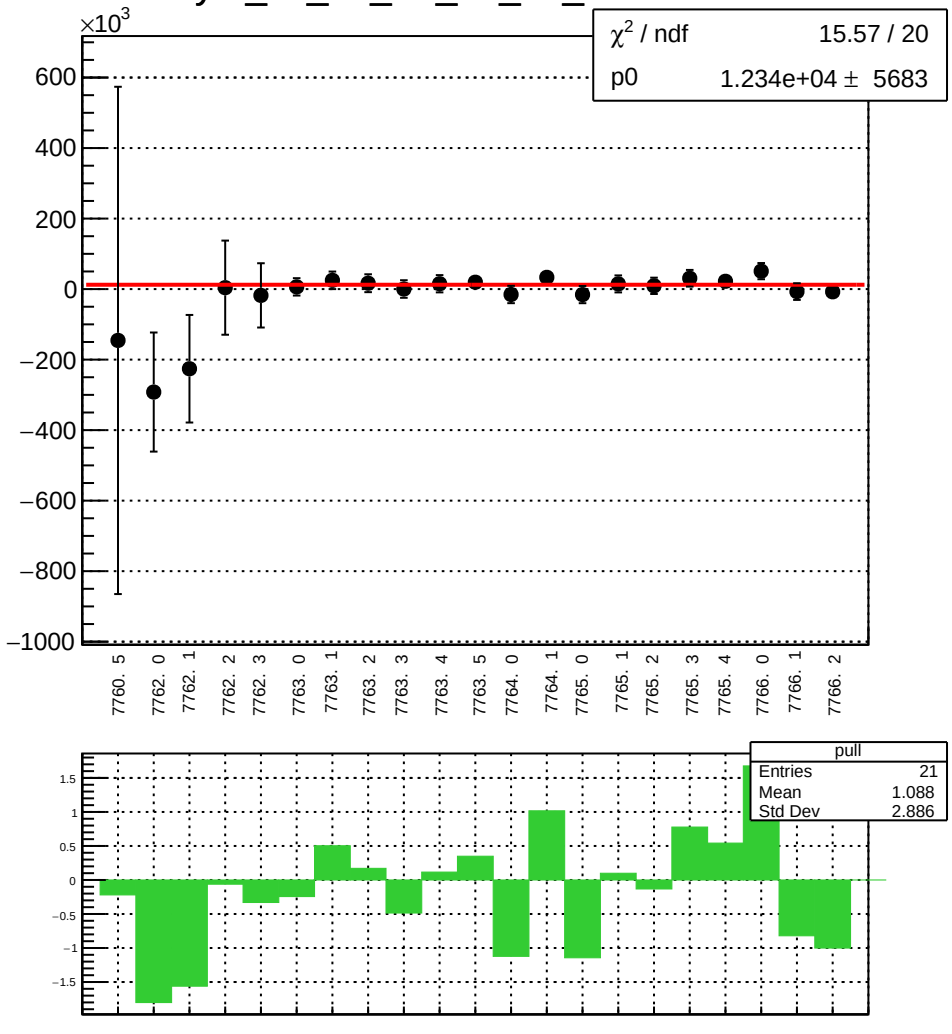

pull1D
Entries 21
Mean −0.1362
Std Dev 0.9775
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

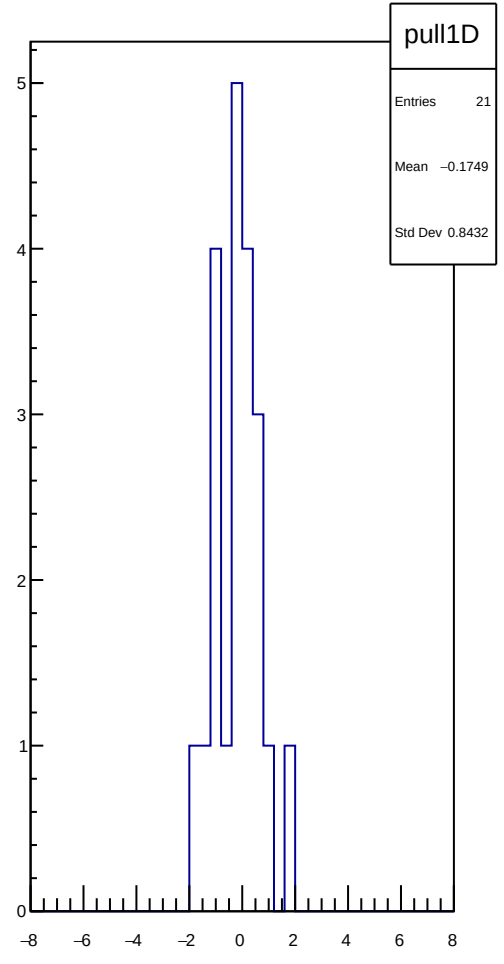

reg_asym_atl_dd_atr_dd_dd_rms vs run
×10^3
χ² / ndf 1.453e+05 / 23
p0 1213 ± 2.092
1000
800
600
400
200
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

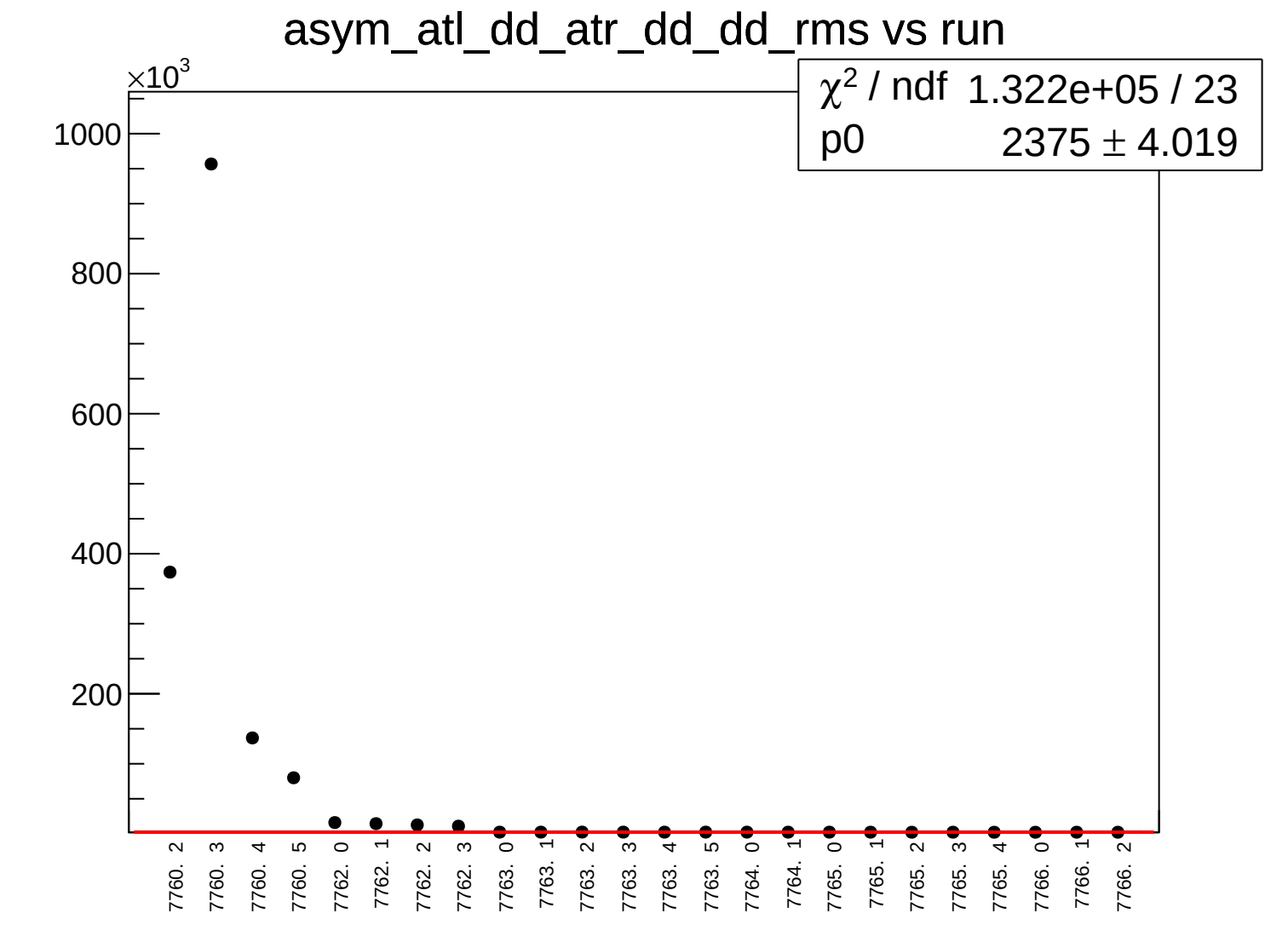

asym_atl_dd_atr_dd_dd_correction_mean vs run
×10^3
χ^2 / ndf 28.88 / 24
p0 −9551 ± 4302
1200
1000
800
600
400
200
0
−200
−400
−600
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −10.01
Std Dev 18.7
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

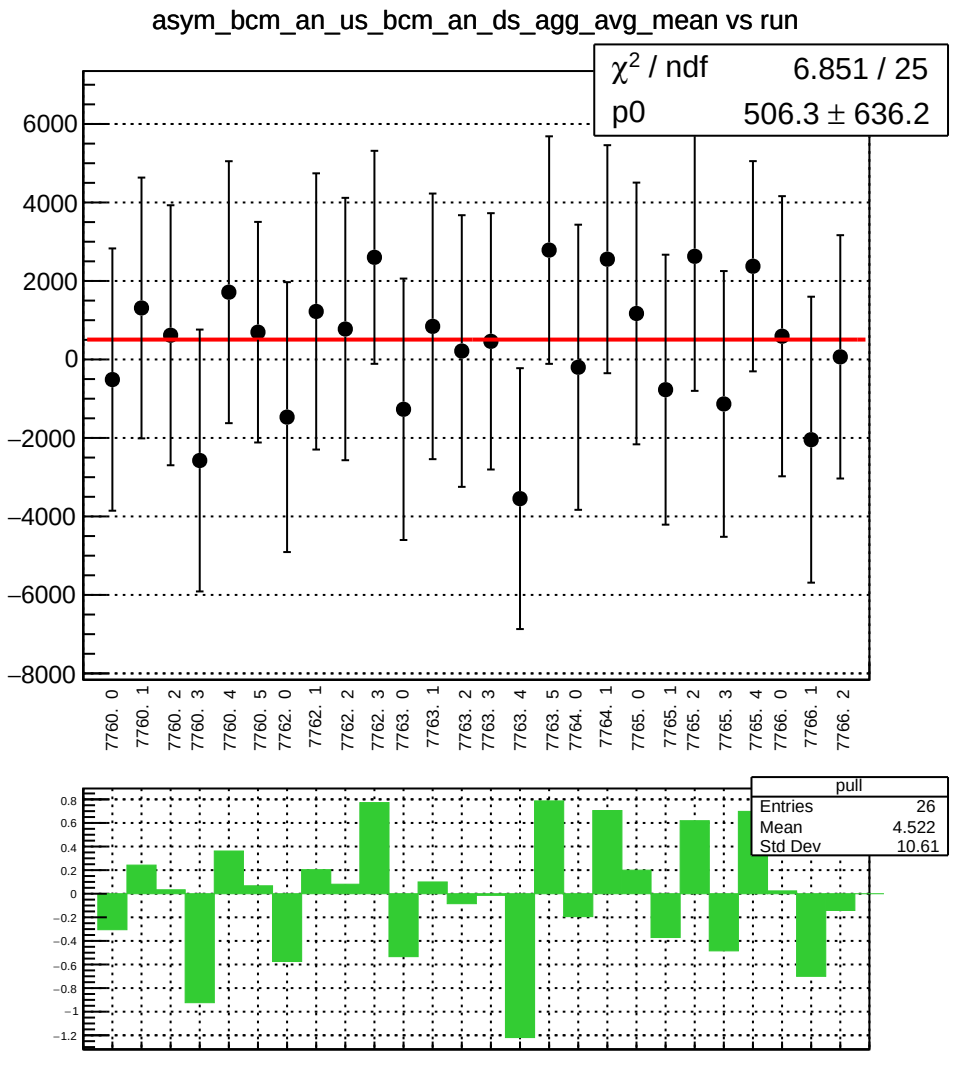

pull1D
Entries 25
Mean 0.1051
Std Dev 1.07
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

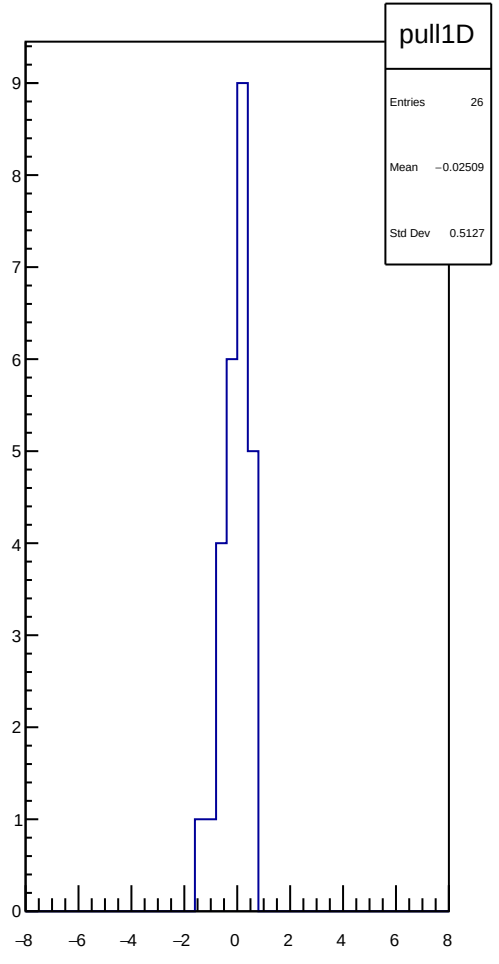

asym_atl_dd_atr_dd_dd_correction_rms vs run
χ² / ndf 5.1e+04 / 24
p0 2037 ± 3.042
60000
50000
40000
30000
20000
10000
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

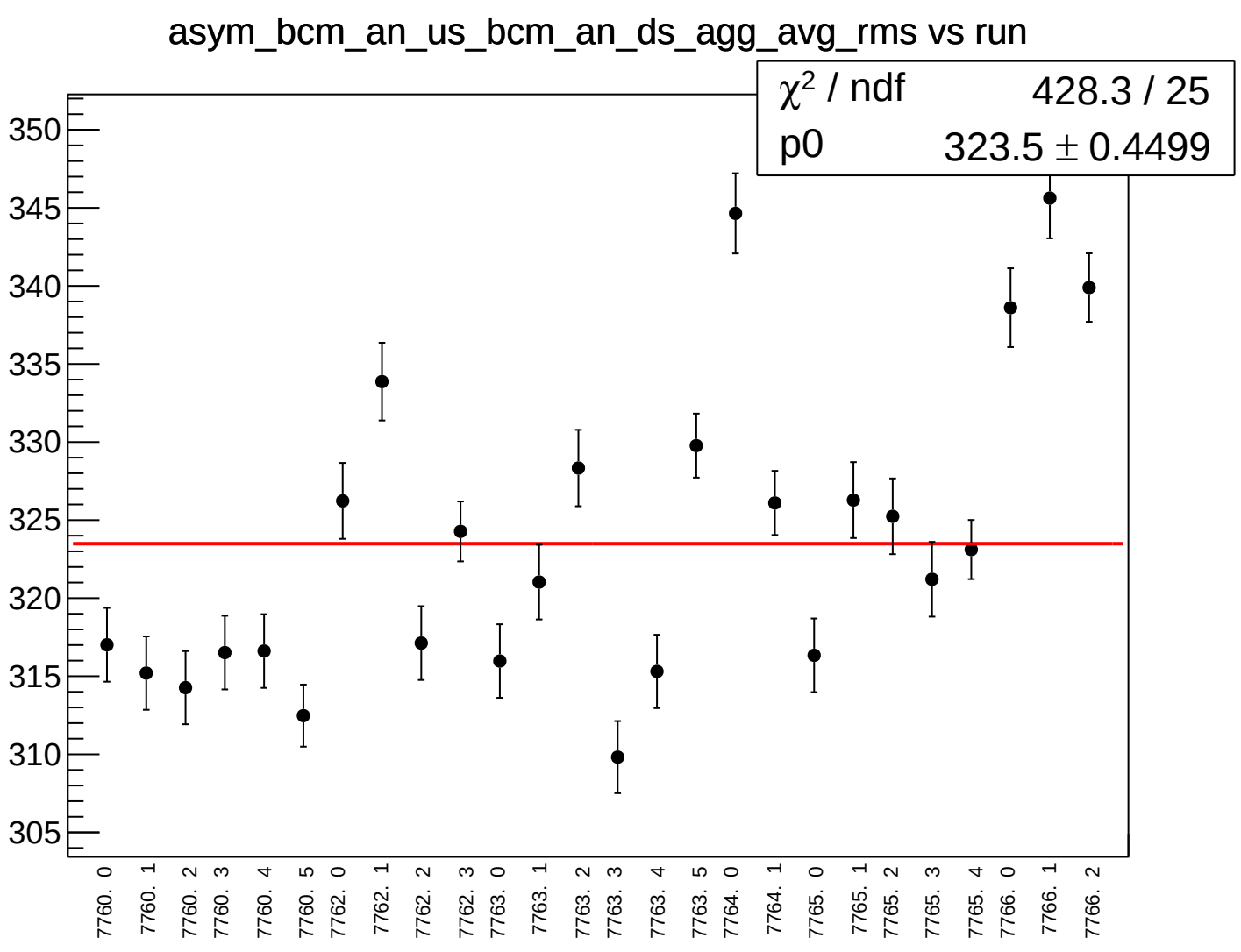

asym_atl_dd_atr_dd_dd_mean vs run
×10^3
χ² / ndf 15.57 / 20
p0 1.234e+04 ± 5683
600
400
200
0
−200
−400
−600
−800
−1000
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 21
Mean 1.088
Std Dev 2.886
1.5
1
0.5
0
−0.5
−1
−1.5

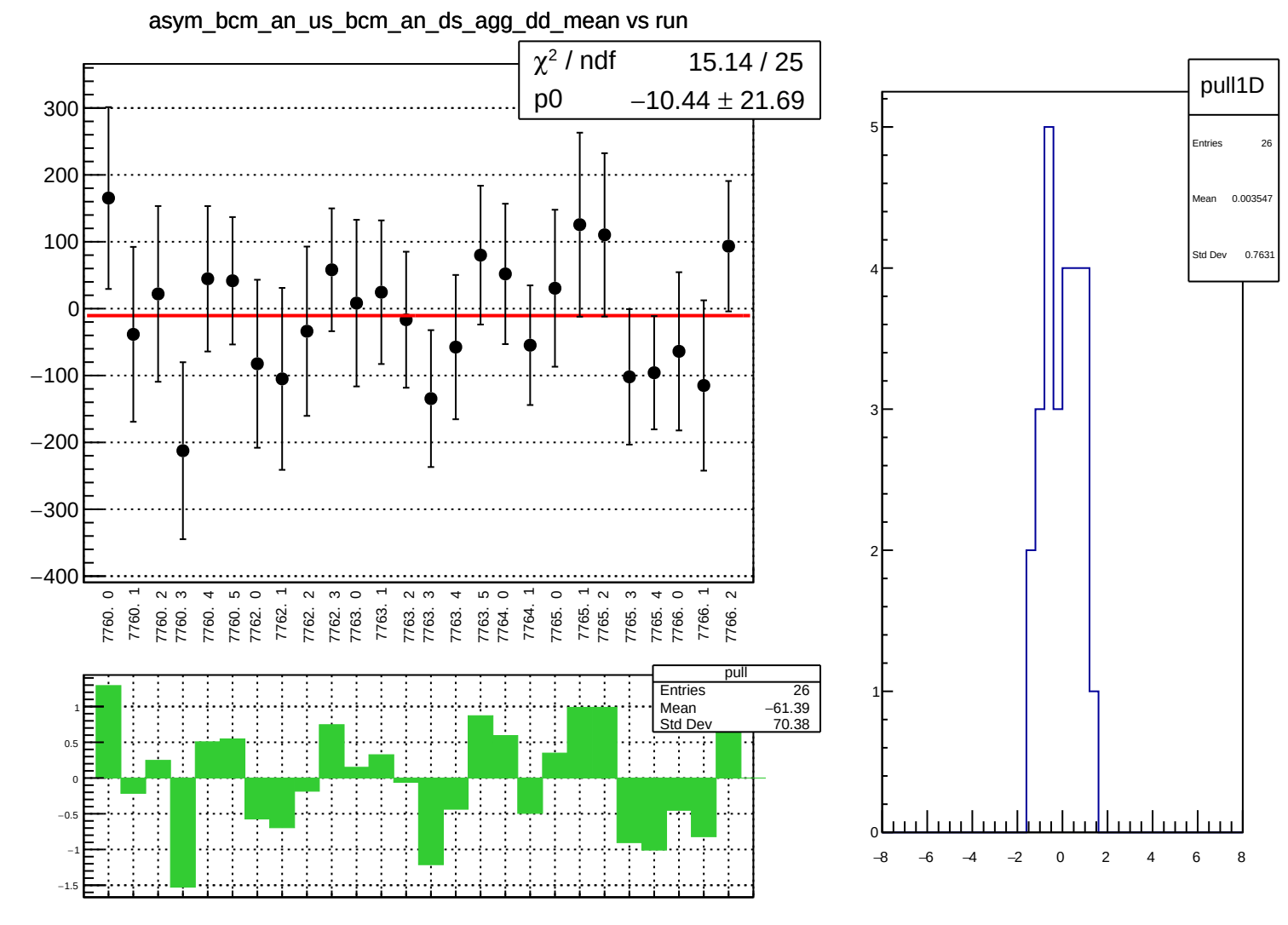

pull1D
Entries 21
Mean −0.1749
Std Dev 0.8432
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

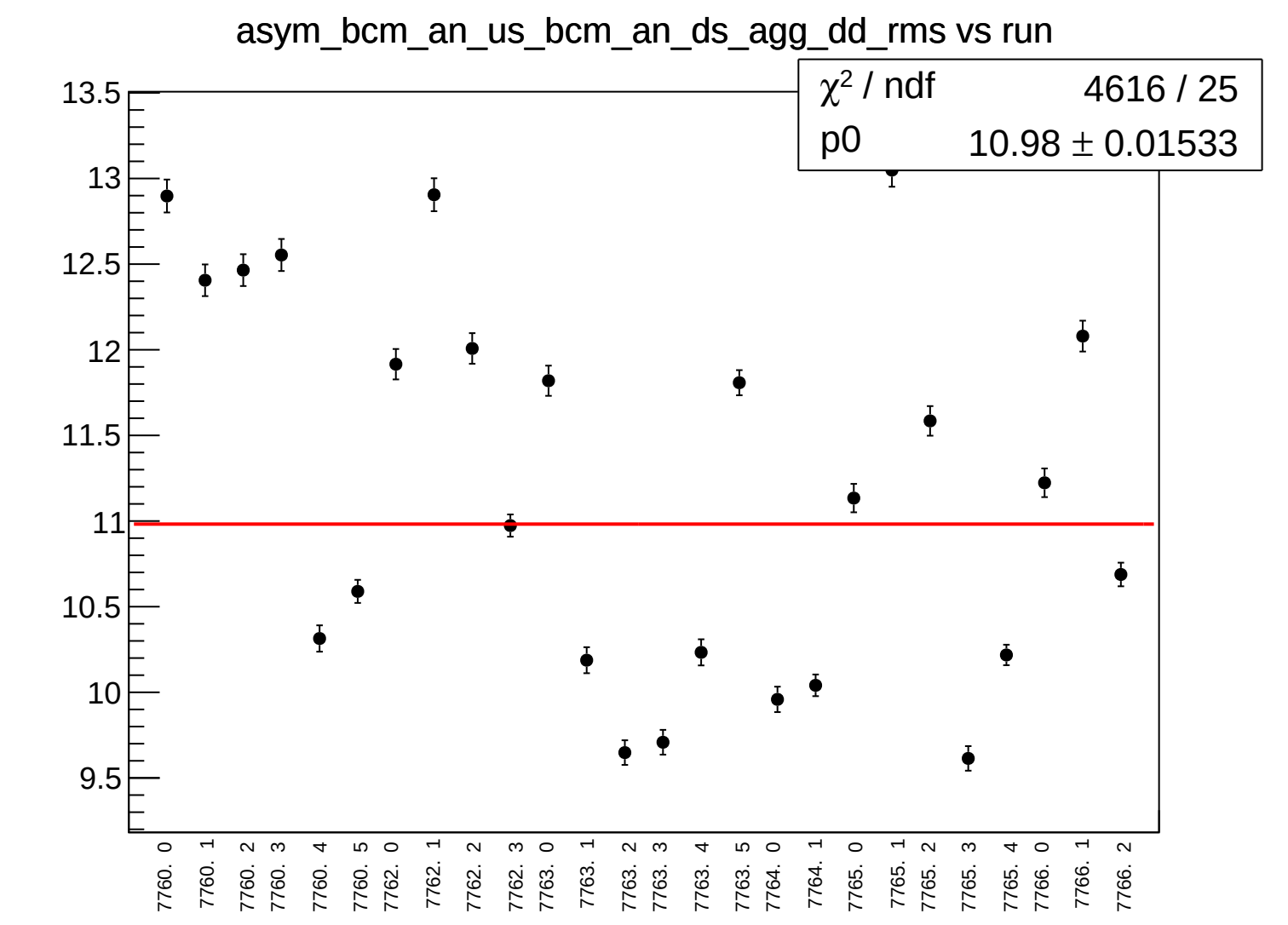

asym_atl_dd_atr_dd_dd_rms vs run
×10^3
1000
800
600
400
200
χ² / ndf 1.322e+05 / 23
p0 2375 ± 4.019
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

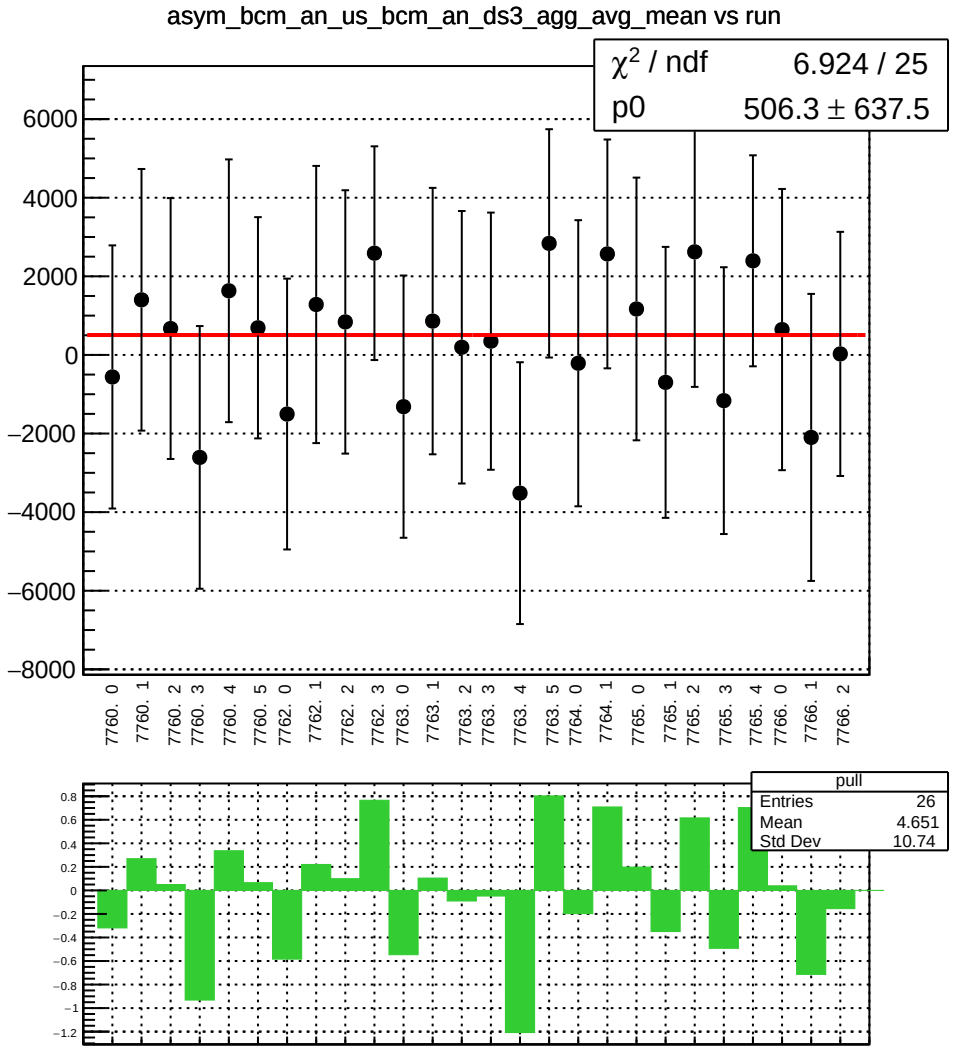

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 6.851 / 25
p0 506.3 ± 636.2
6000
4000
2000
0
−2000
−4000
−6000
−8000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 4.522
Std Dev 10.61
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

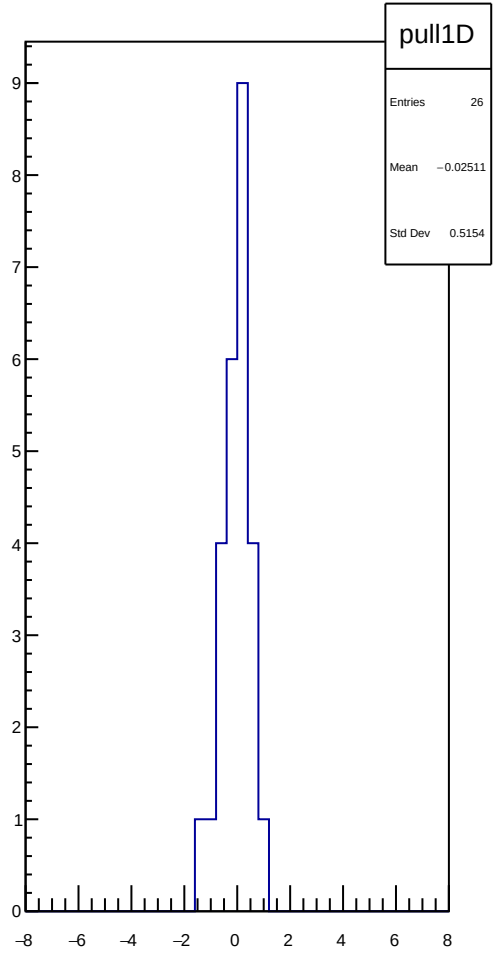

pull1D
Entries 26
Mean −0.02509
Std Dev 0.5127
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

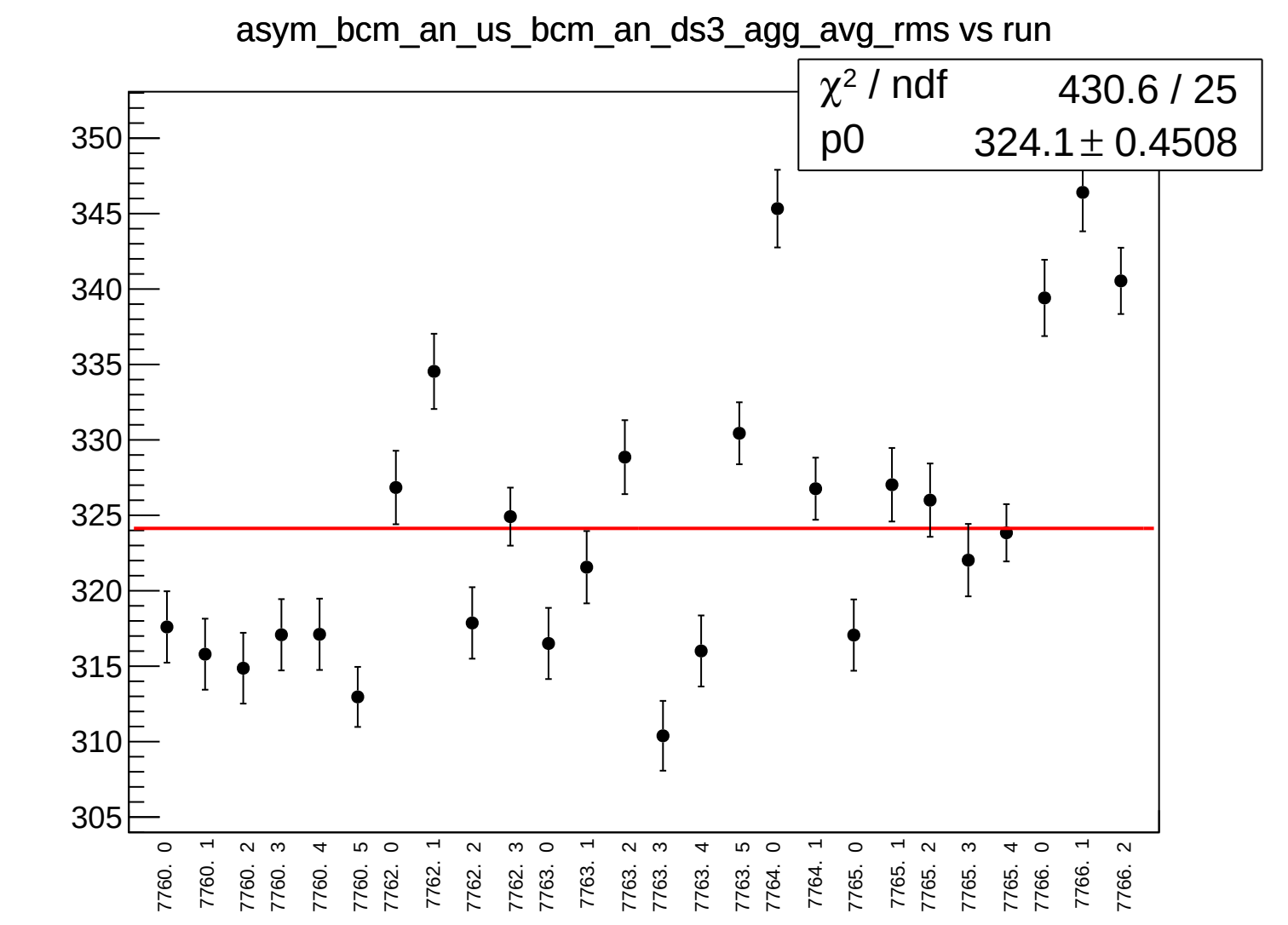

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 428.3 / 25
p0 323.5 ± 0.4499
350
345
340
335
330
325
320
315
310
305
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

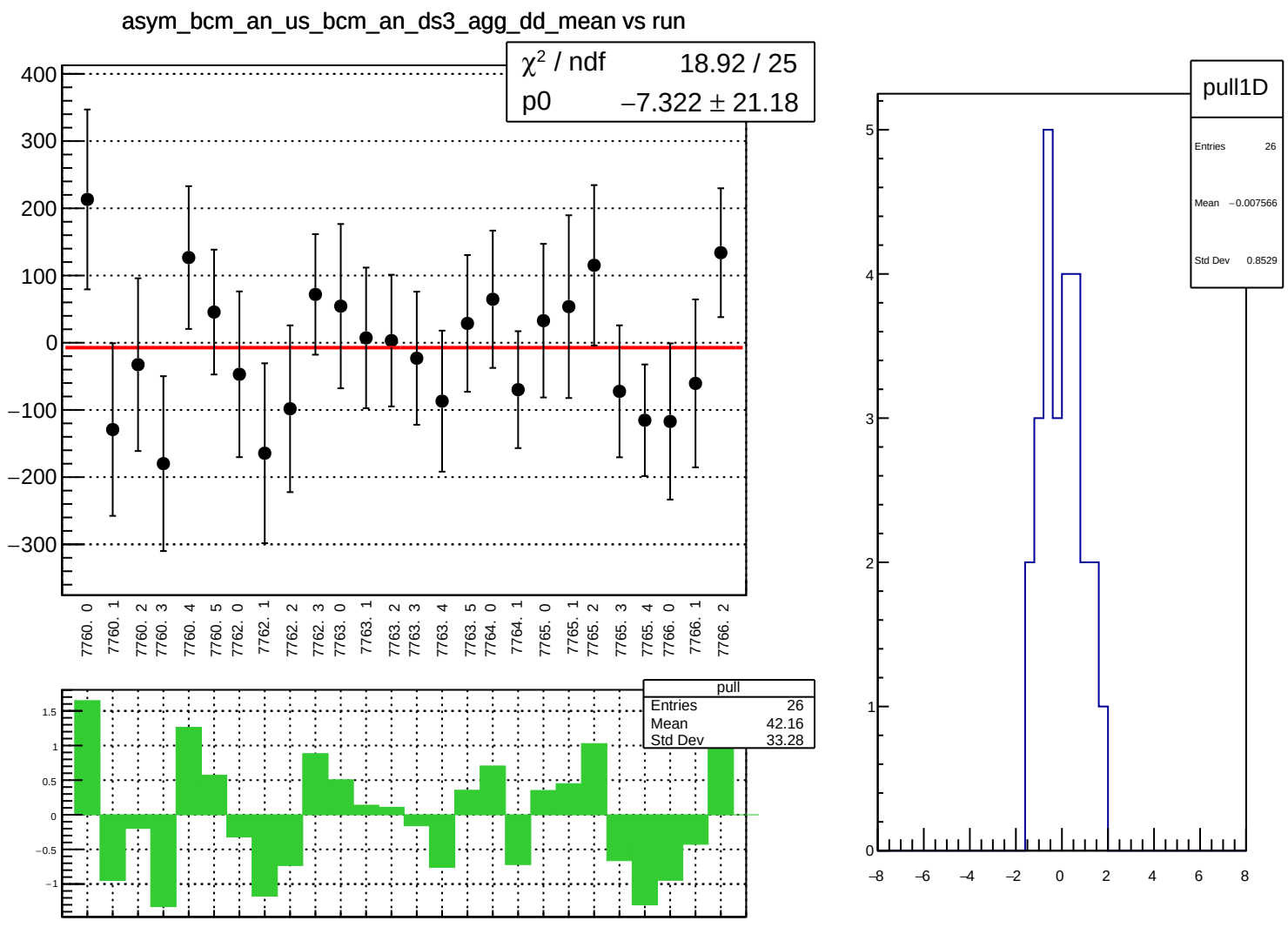

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 15.14 / 25
p0 −10.44 ± 21.69
300
200
100
0
−100
−200
−300
−400
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −61.39
Std Dev 70.38
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 26
Mean 0.003547
Std Dev 0.7631
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

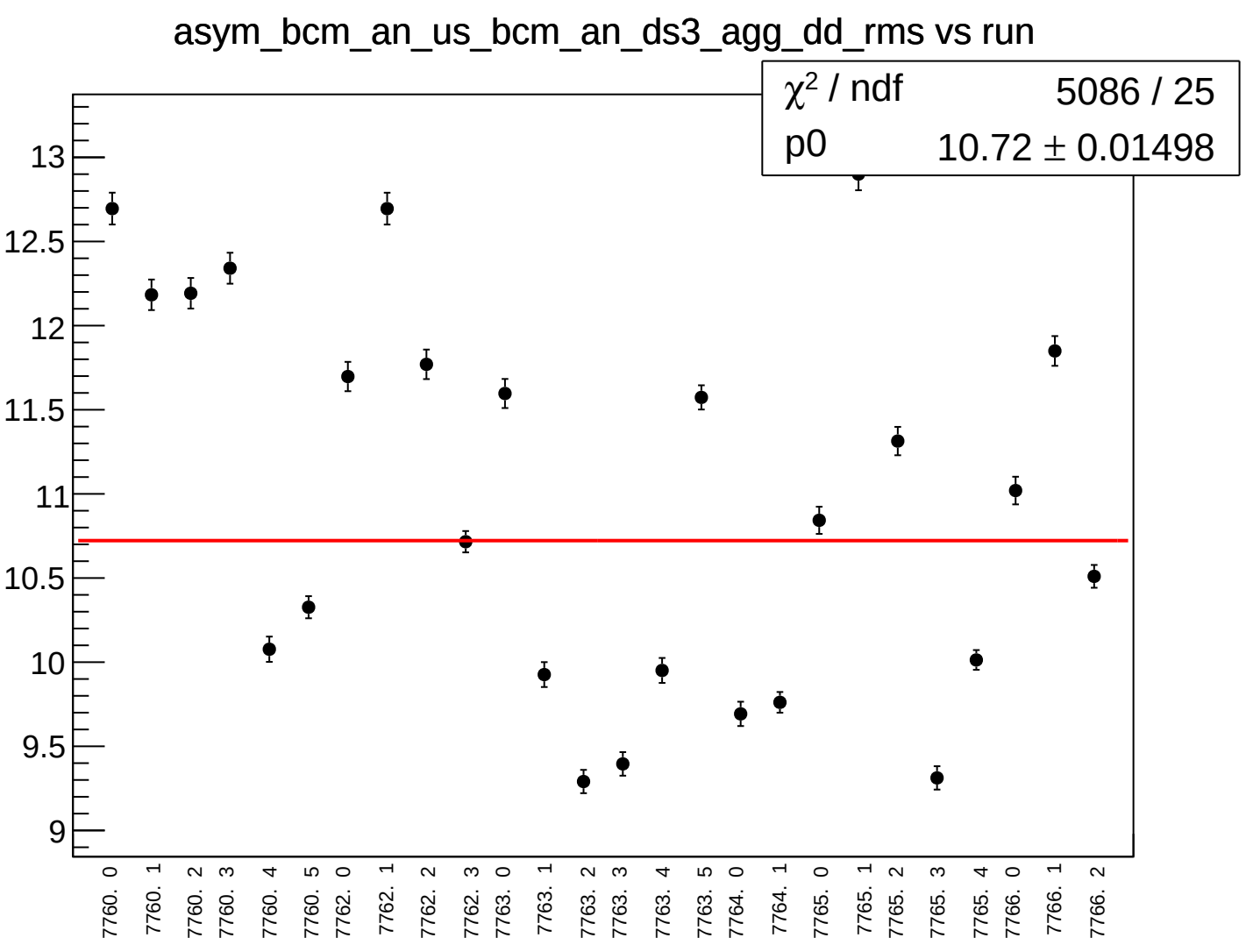

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 4616 / 25
p0 10.98 ± 0.01533
13.5
13
12.5
12
11.5
11
10.5
10
9.5
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

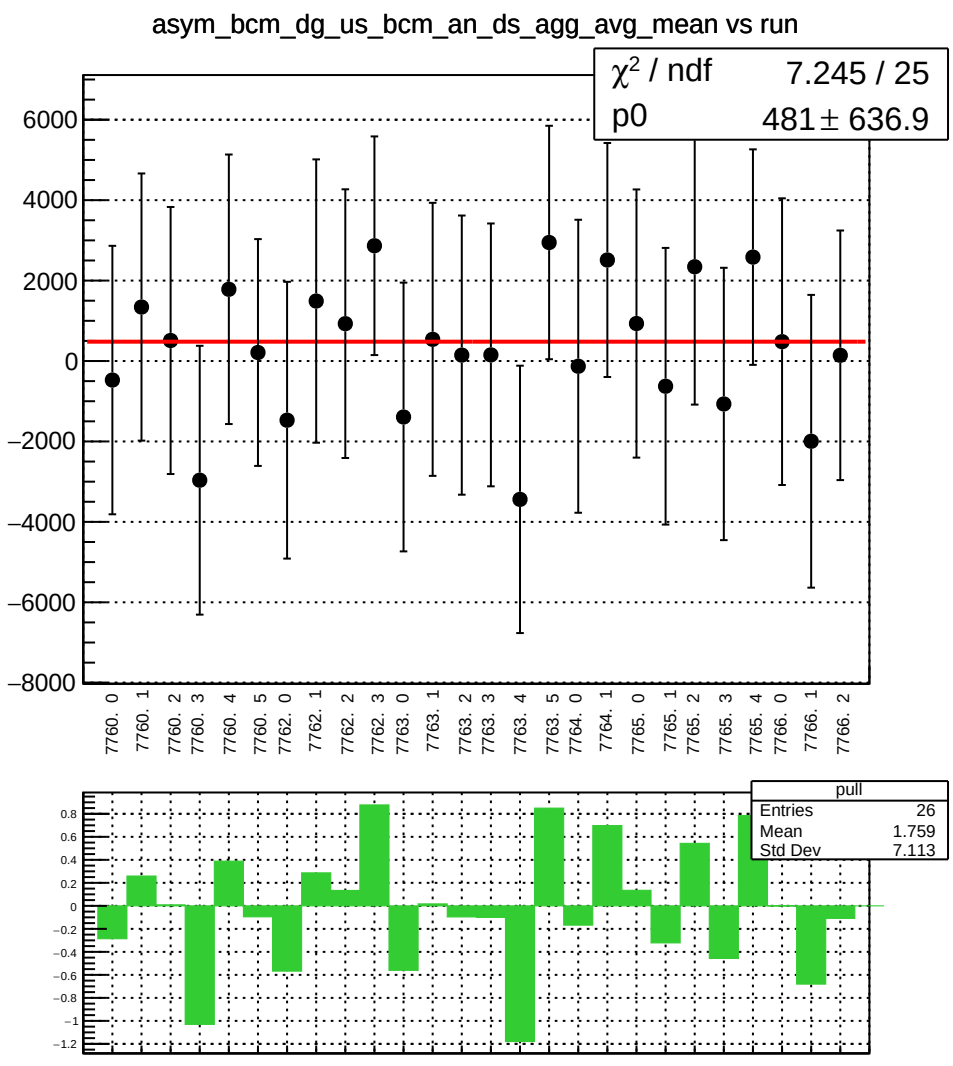

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 6.924 / 25
p0 506.3 ± 637.5
6000
4000
2000
0
−2000
−4000
−6000
−8000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 4.651
Std Dev 10.74
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

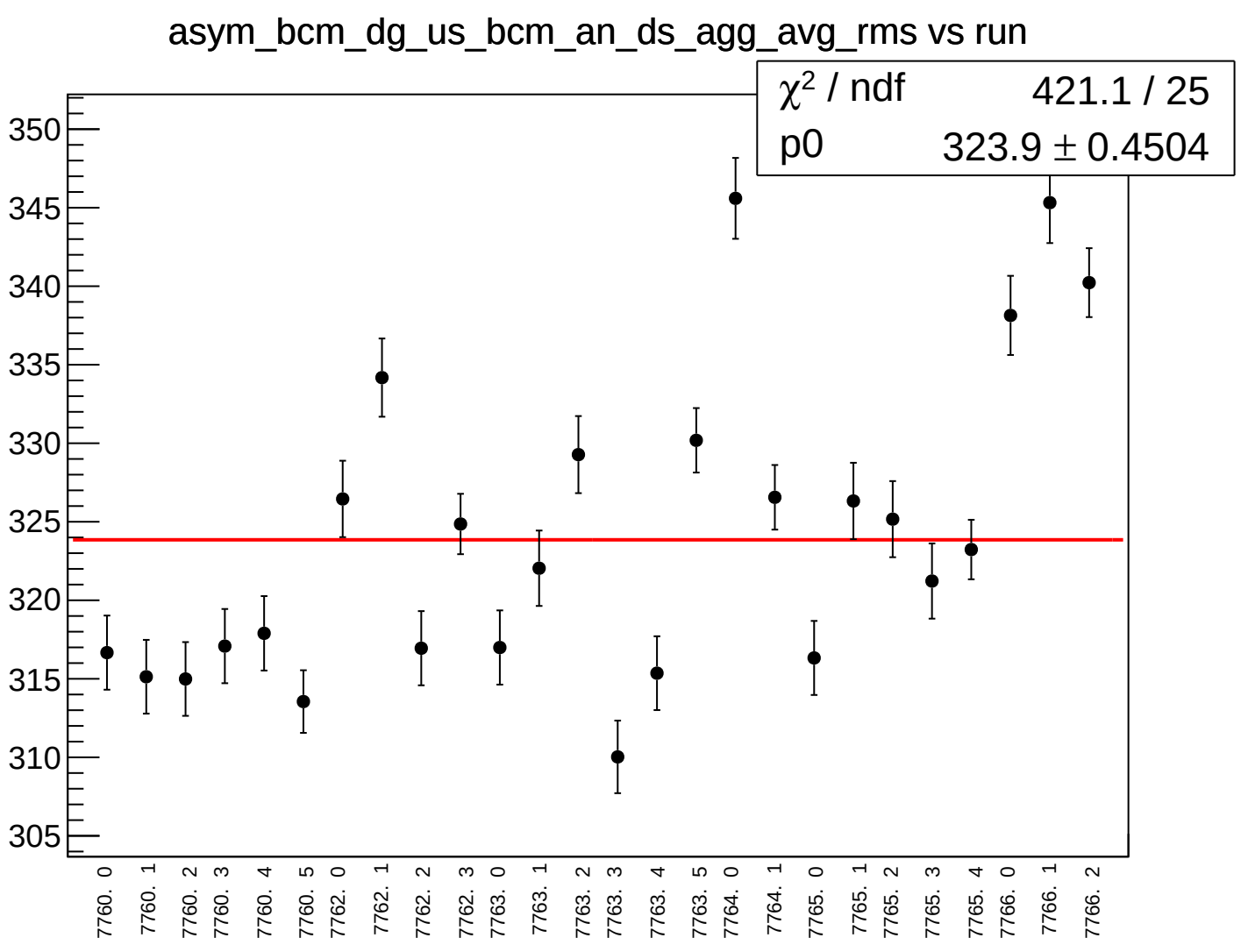

pull1D
Entries 26
Mean −0.02511
Std Dev 0.5154
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

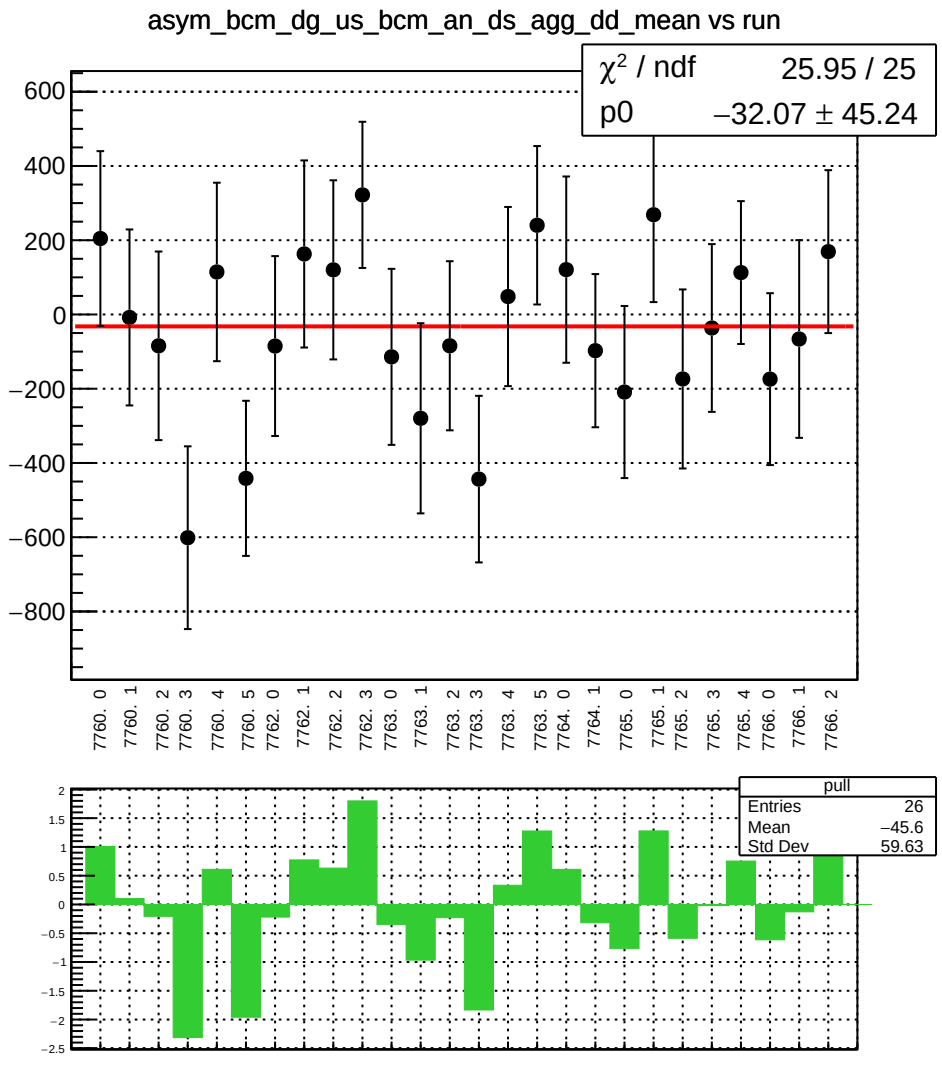

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 430.6 / 25
p0 324.1 ± 0.4508
350
345
340
335
330
325
320
315
310
305
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

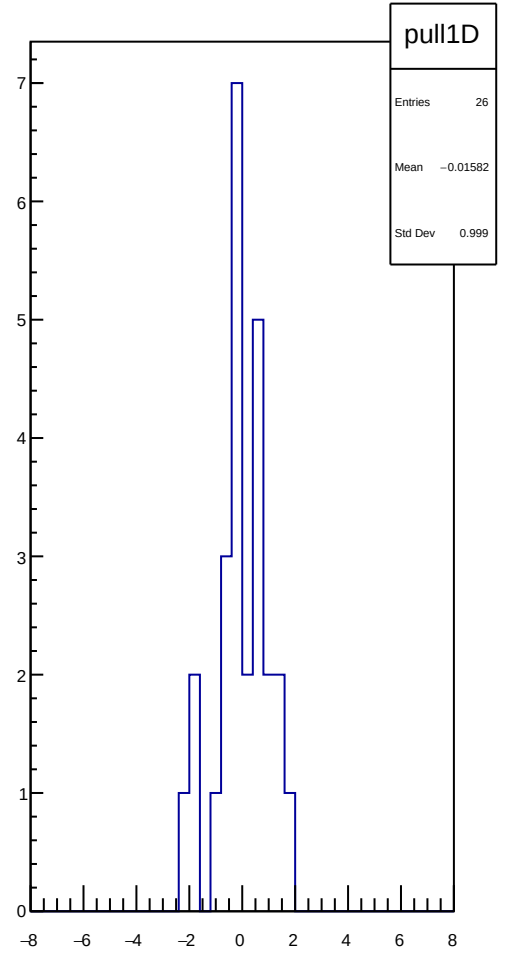

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 18.92 / 25
p0 −7.322 ± 21.18
400
300
200
100
0
−100
−200
−300
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 42.16
Std Dev 33.28
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 26
Mean −0.007566
Std Dev 0.8529
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

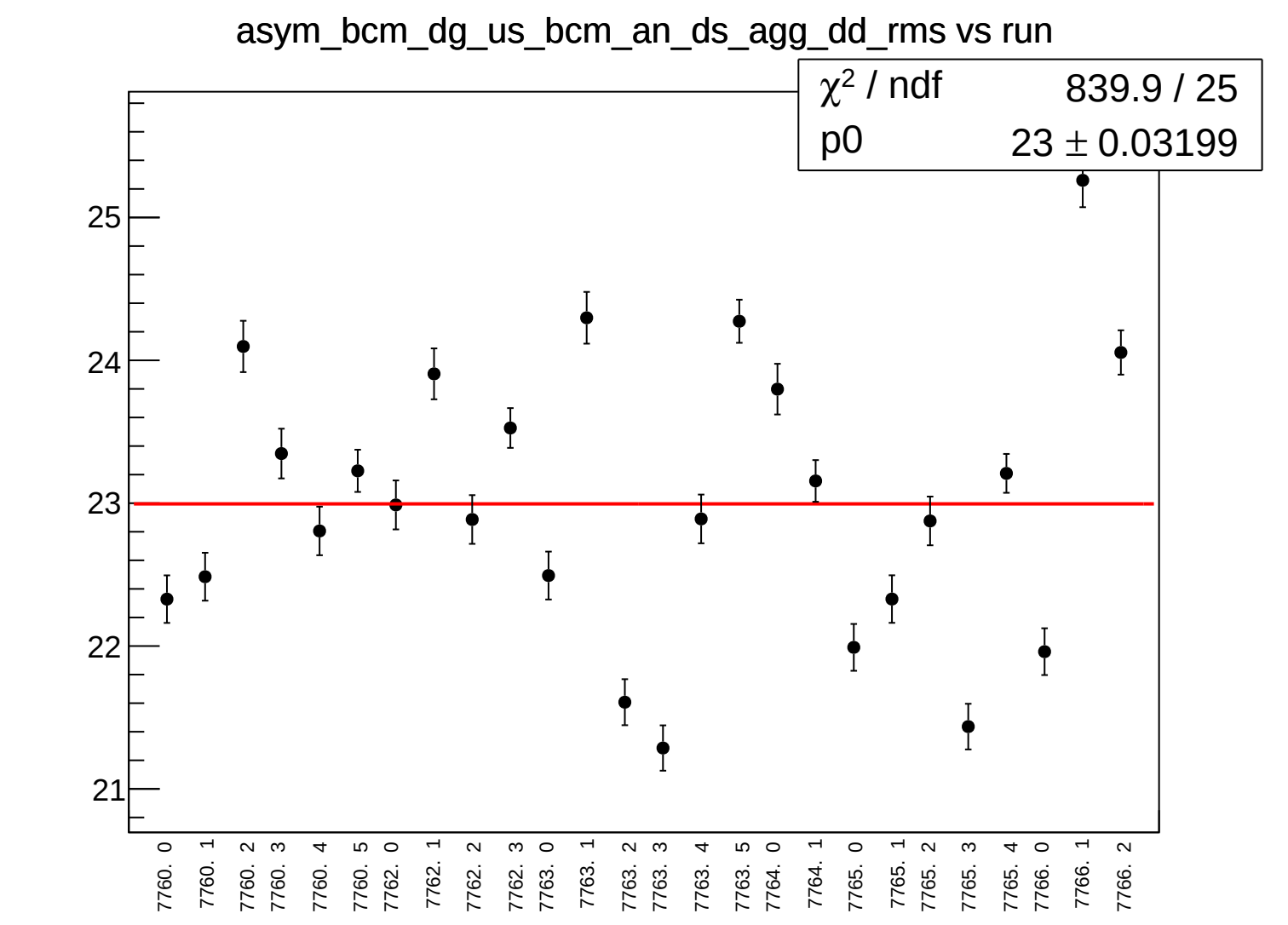

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 5086 / 25
p0 10.72 ± 0.01498
13
12.5
12
11.5
11
10.5
10
9.5
9
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

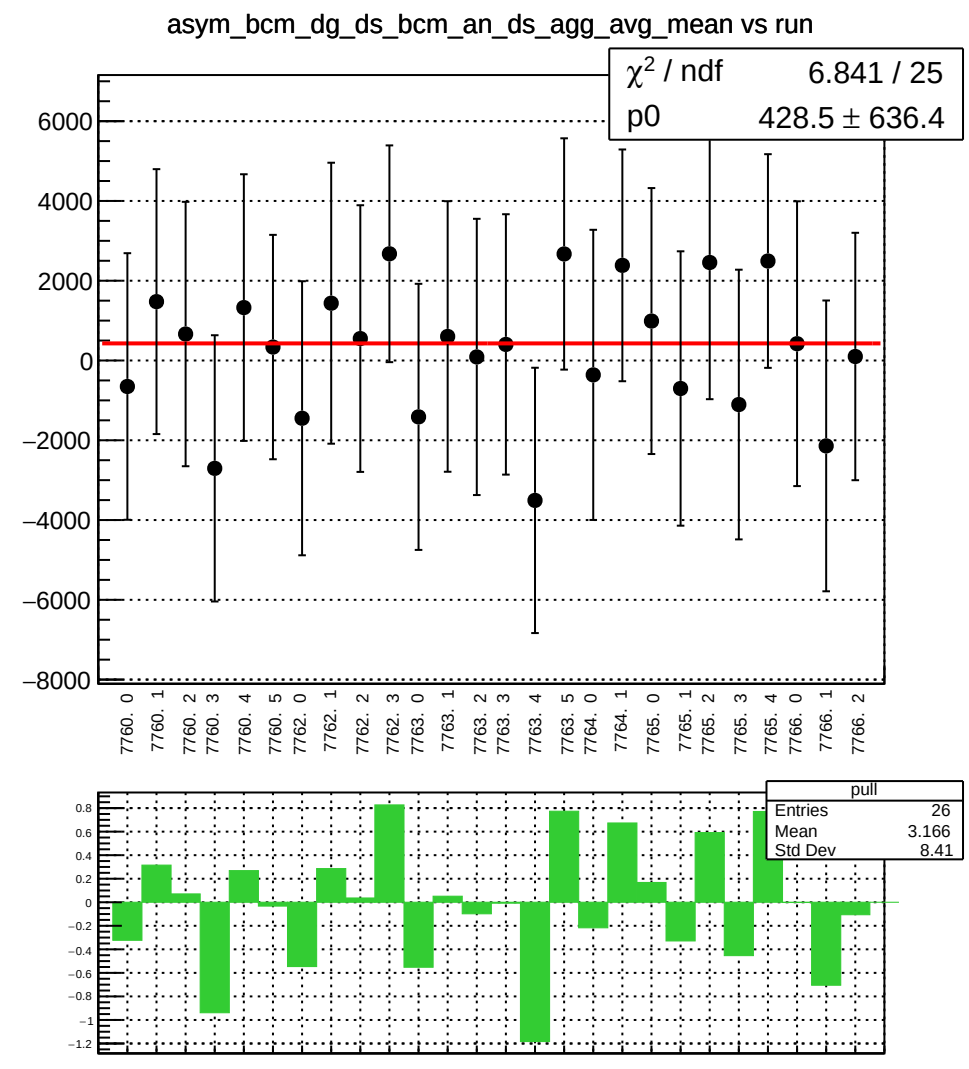

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 7.245 / 25
p0 481 ± 636.9
6000
4000
2000
0
−2000
−4000
−6000
−8000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 1.759
Std Dev 7.113
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 26
Mean −0.02576
Std Dev 0.5272
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

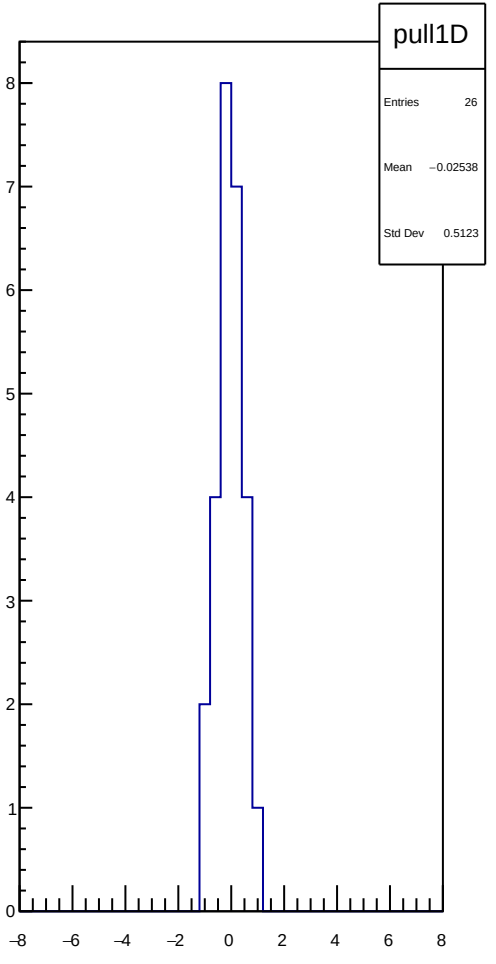

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 421.1 / 25
p0 323.9 ± 0.4504
350
345
340
335
330
325
320
315
310
305
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

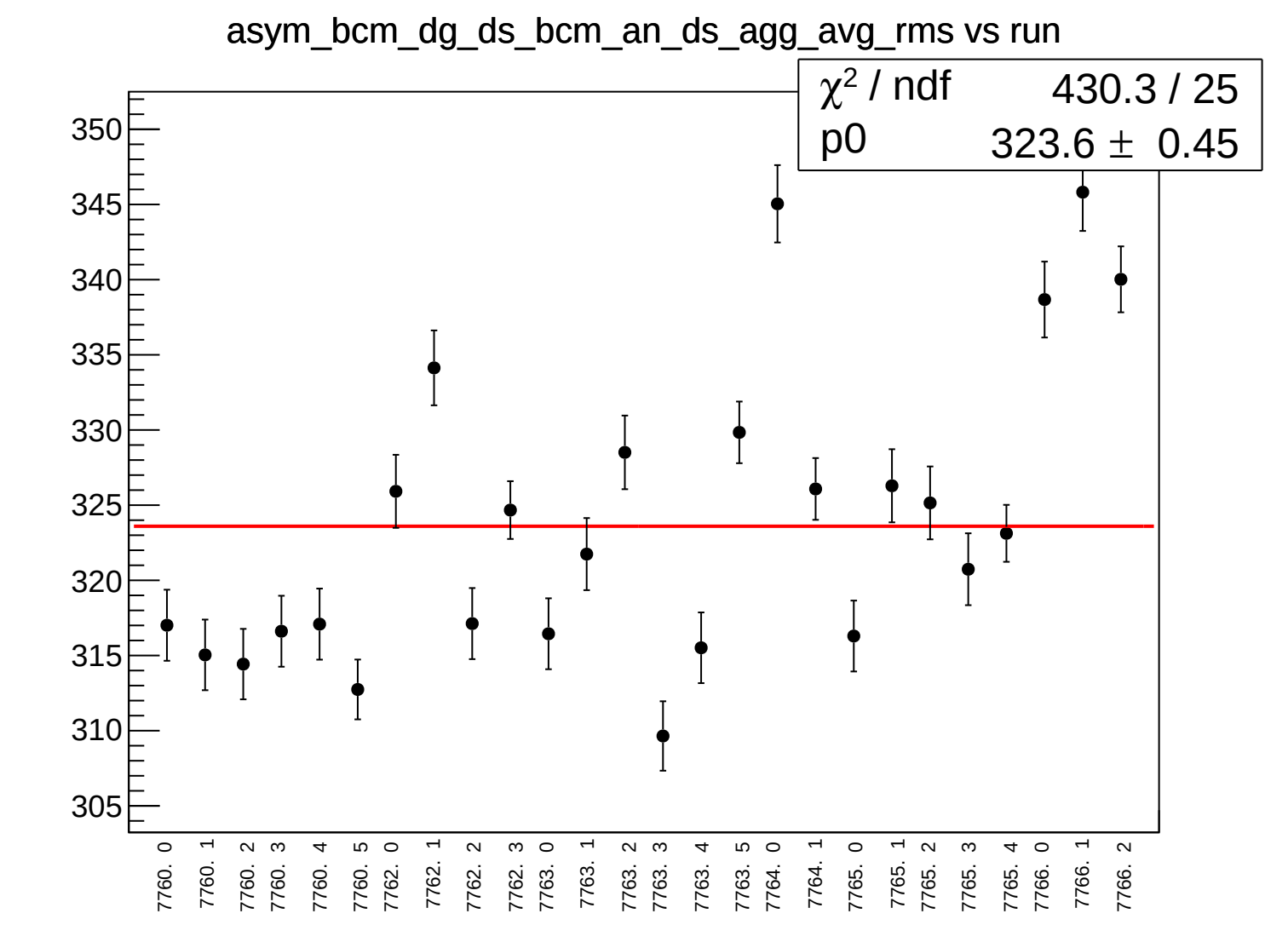

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 25.95 / 25
p0 −32.07 ± 45.24
600
400
200
0
−200
−400
−600
−800
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −45.6
Std Dev 59.63
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

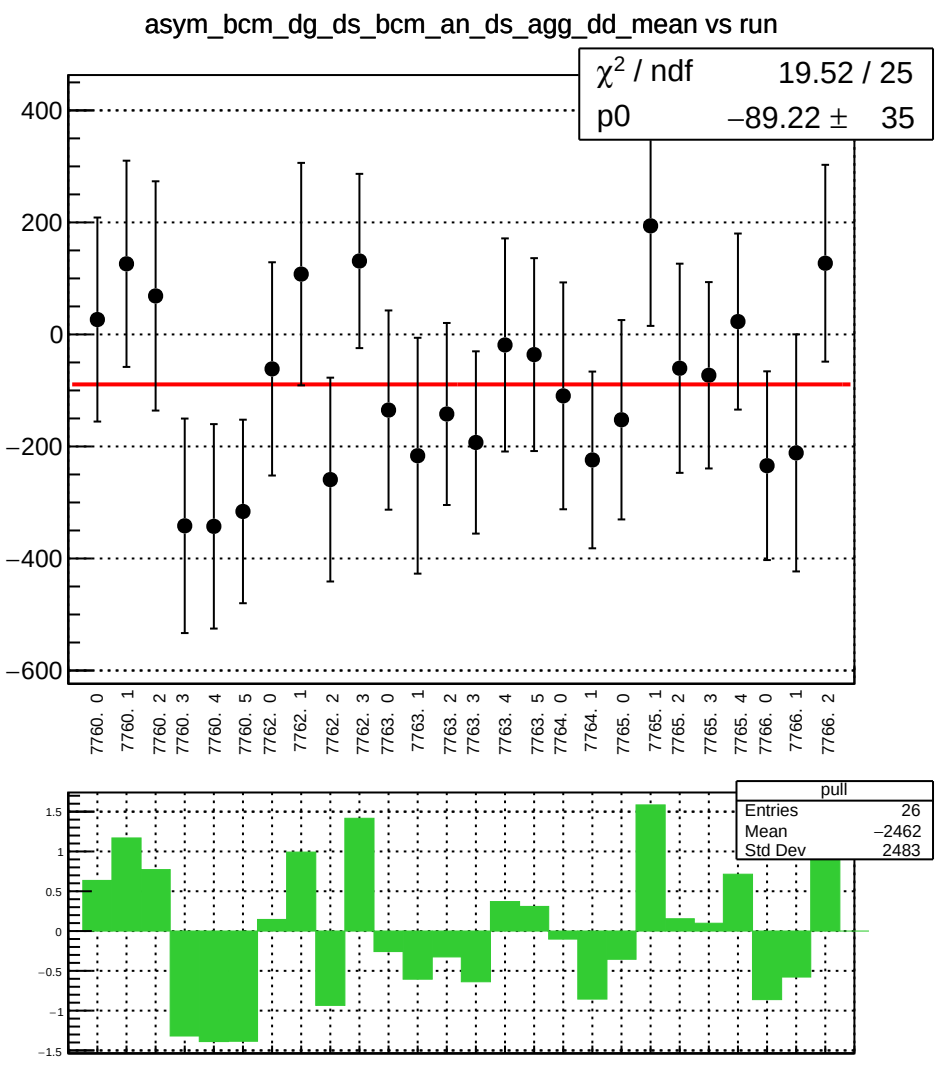

pull1D
Entries 26
Mean −0.01582
Std Dev 0.999
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

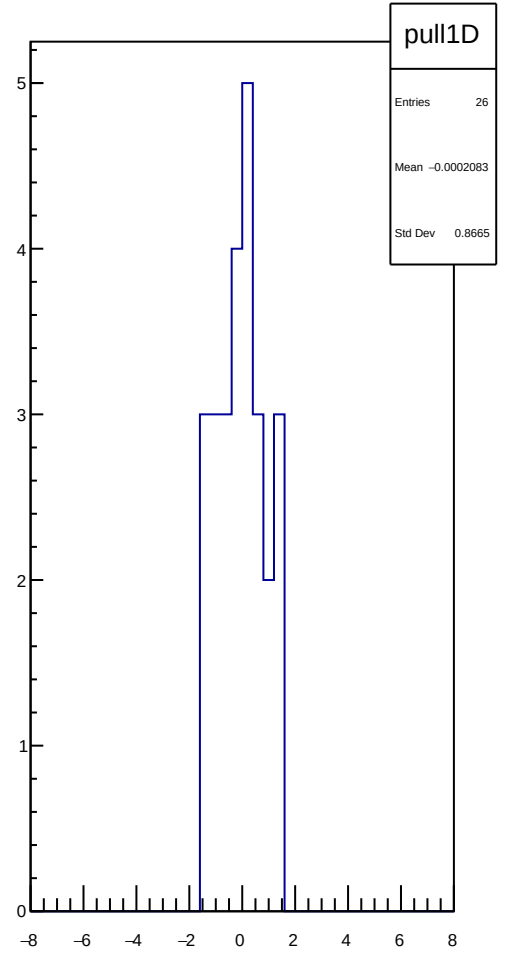

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 839.9 / 25
p0 23 ± 0.03199
25
24
23
22
21
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

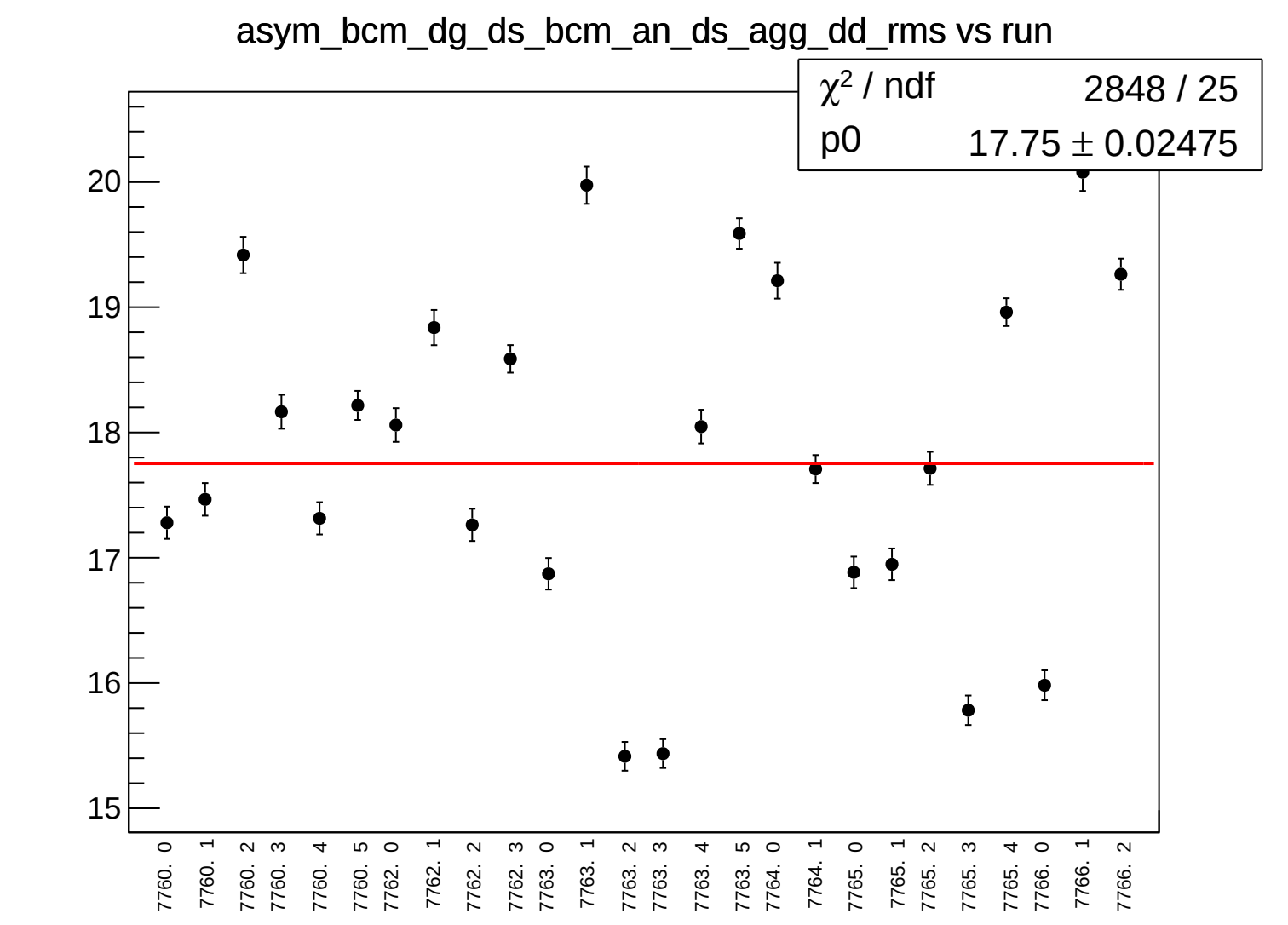

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 6.841 / 25
p0 428.5 ± 636.4
6000
4000
2000
0
−2000
−4000
−6000
−8000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 3.166
Std Dev 8.41
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

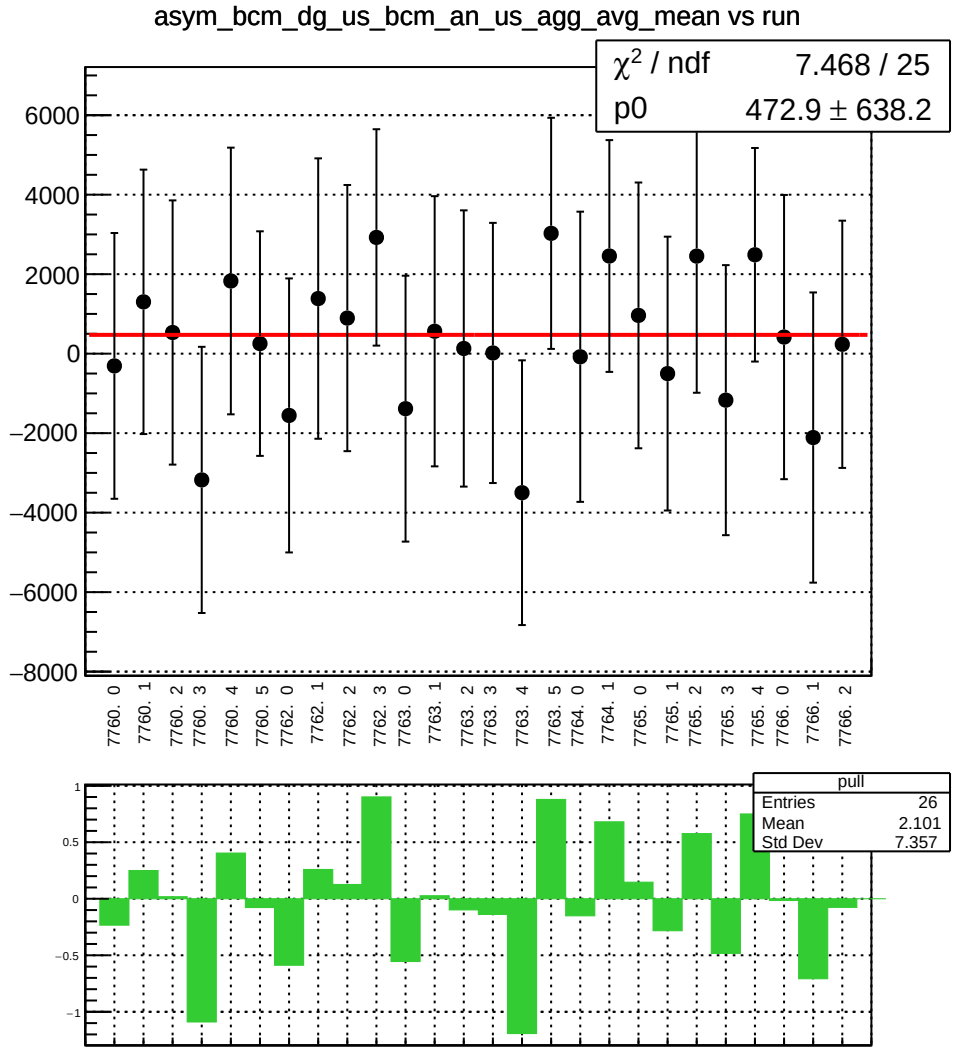

pull1D
Entries 26
Mean −0.02538
Std Dev 0.5123
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

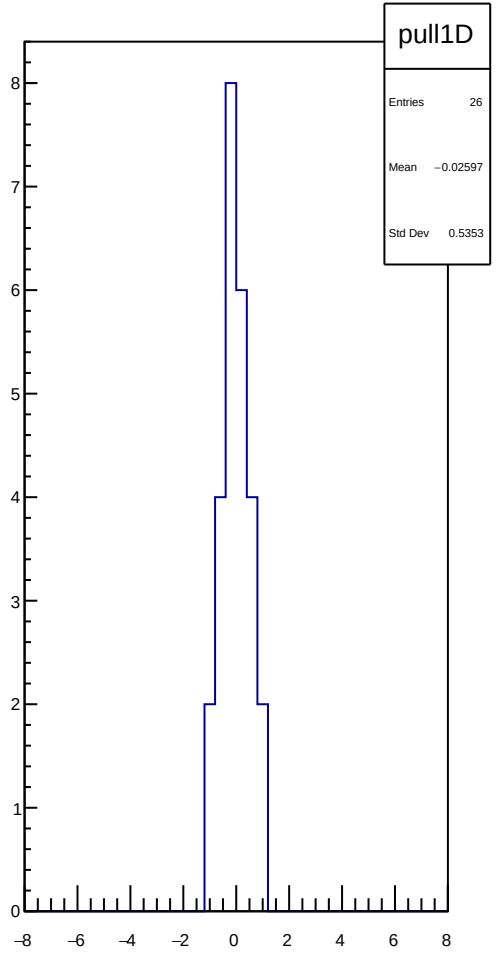

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 430.3 / 25
p0 323.6 ± 0.45
350
345
340
335
330
325
320
315
310
305
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

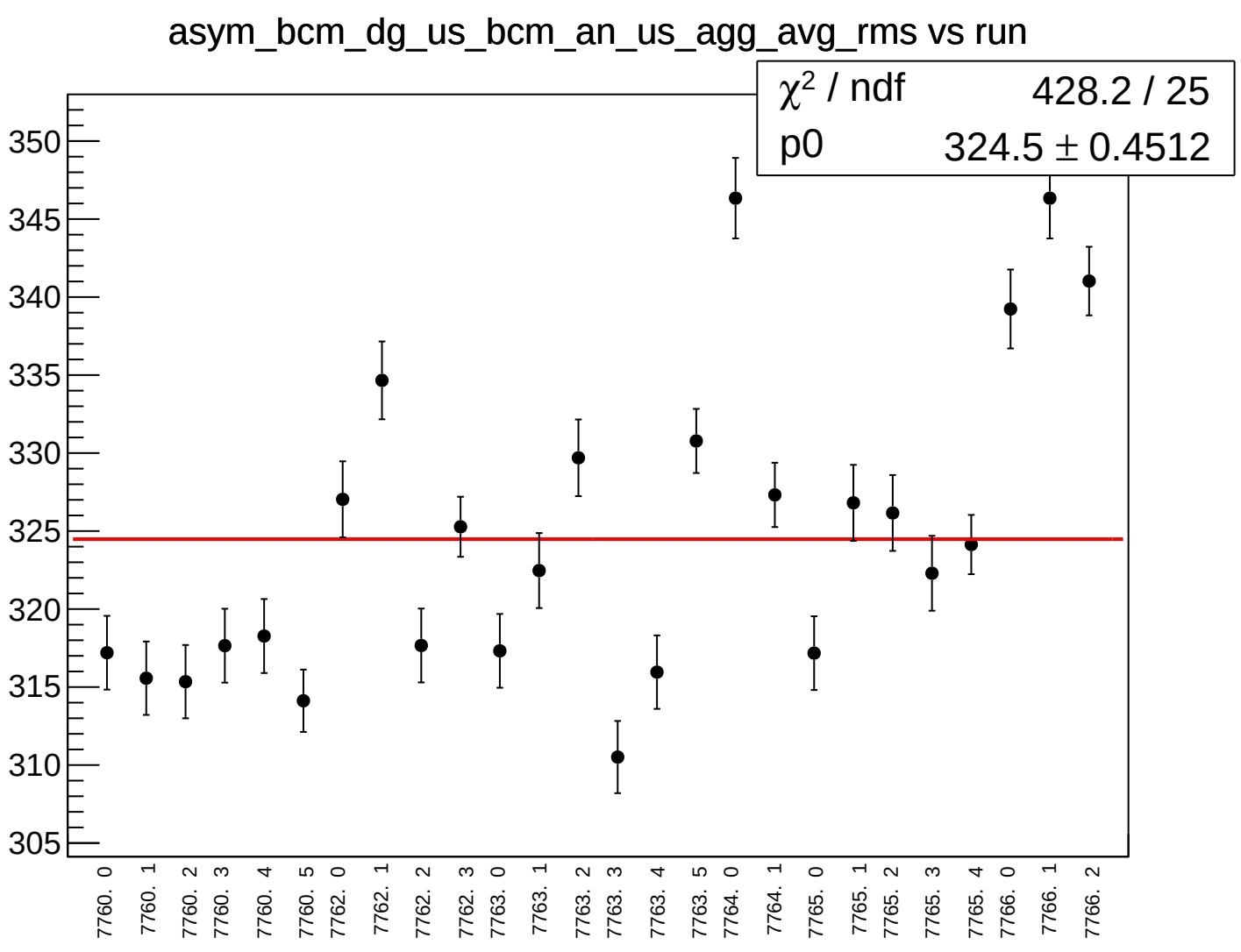

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 19.52 / 25
p0 −89.22 ± 35
400
200
0
−200
−400
−600
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −2462
Std Dev 2483
1.5
1
0.5
0
−0.5
−1
−1.5

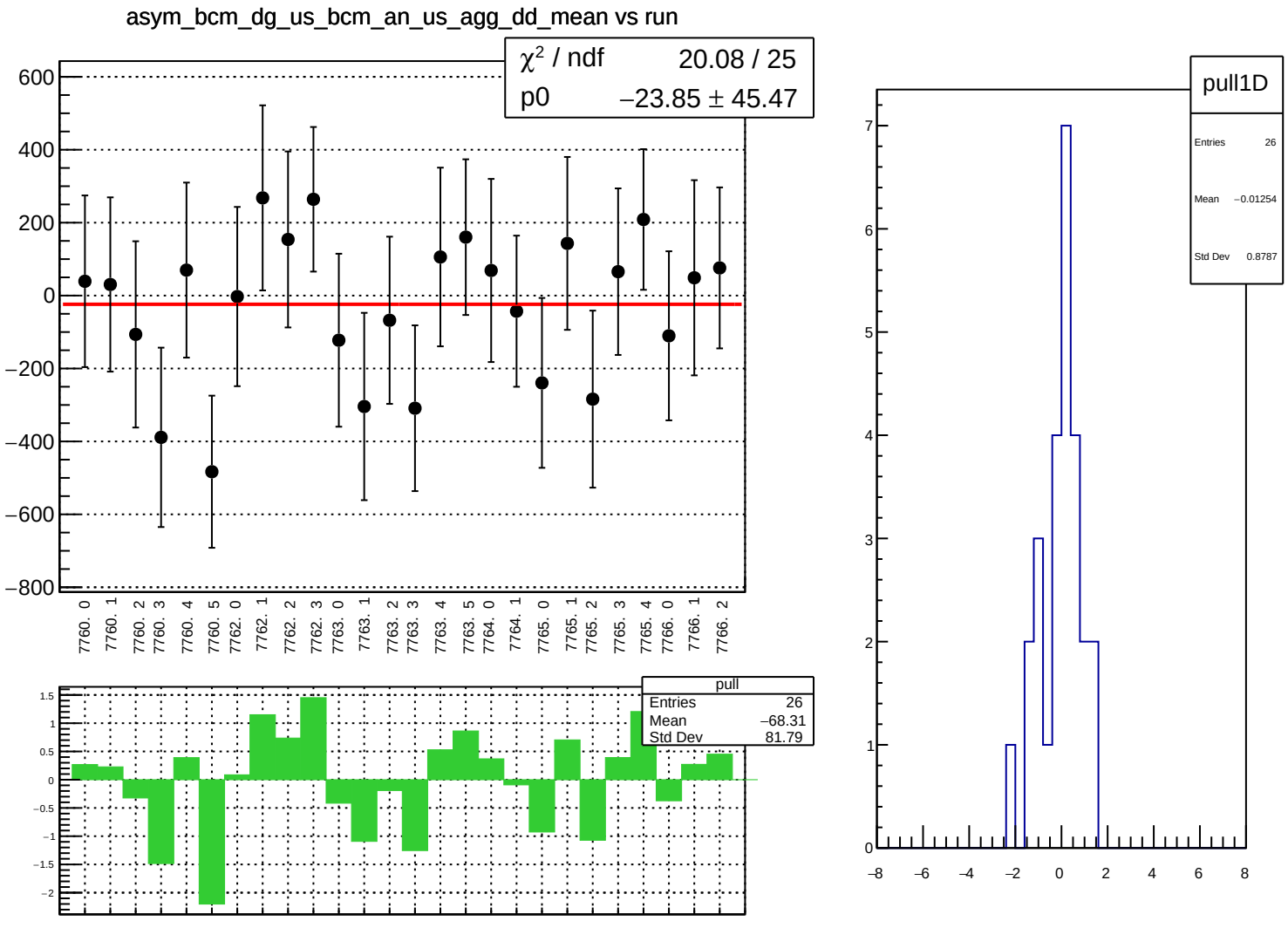

pull1D
Entries 26
Mean −0.0002083
Std Dev 0.8665
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

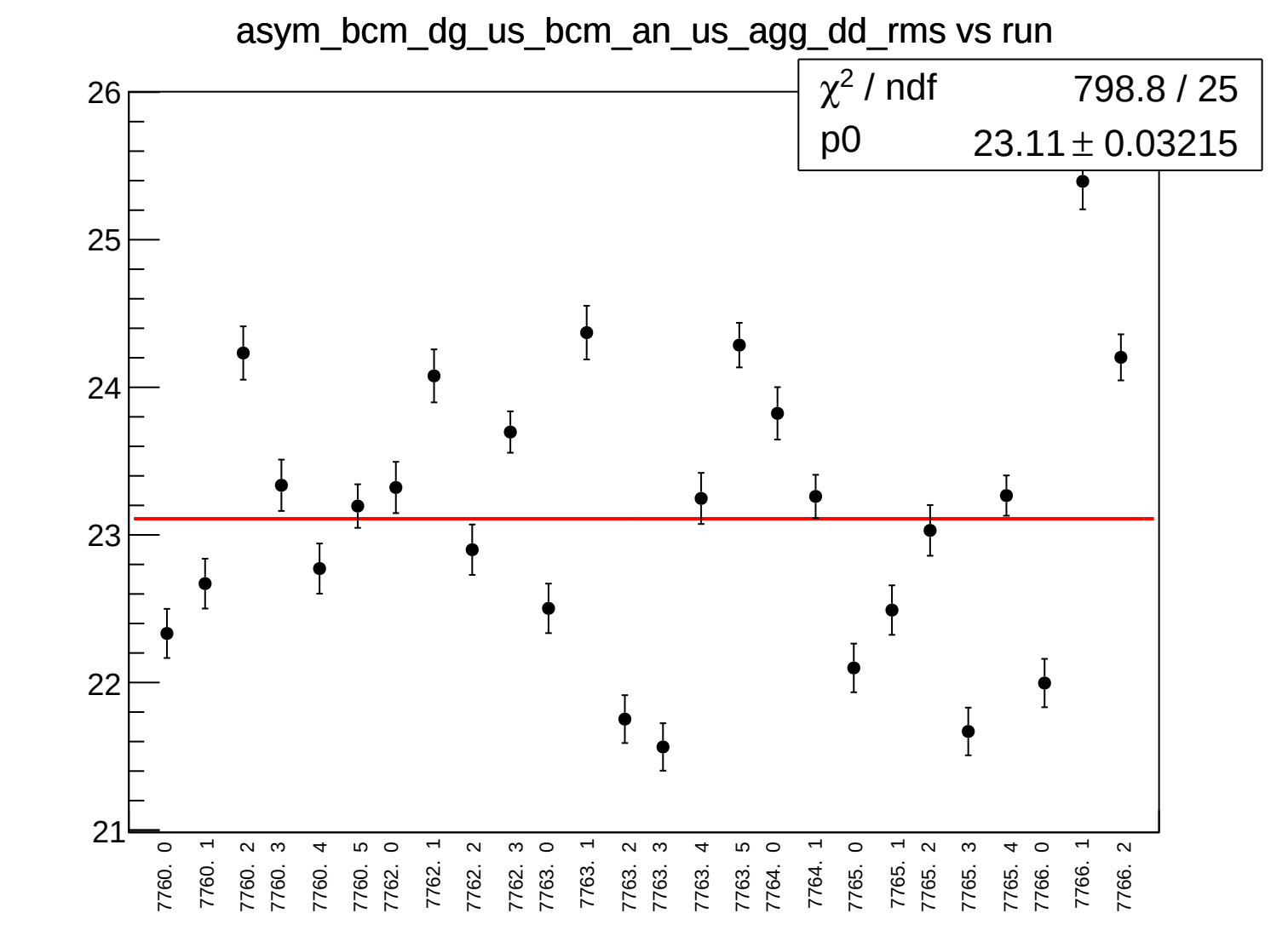

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2848 / 25
p0 17.75 ± 0.02475
20
19
18
17
16
15
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

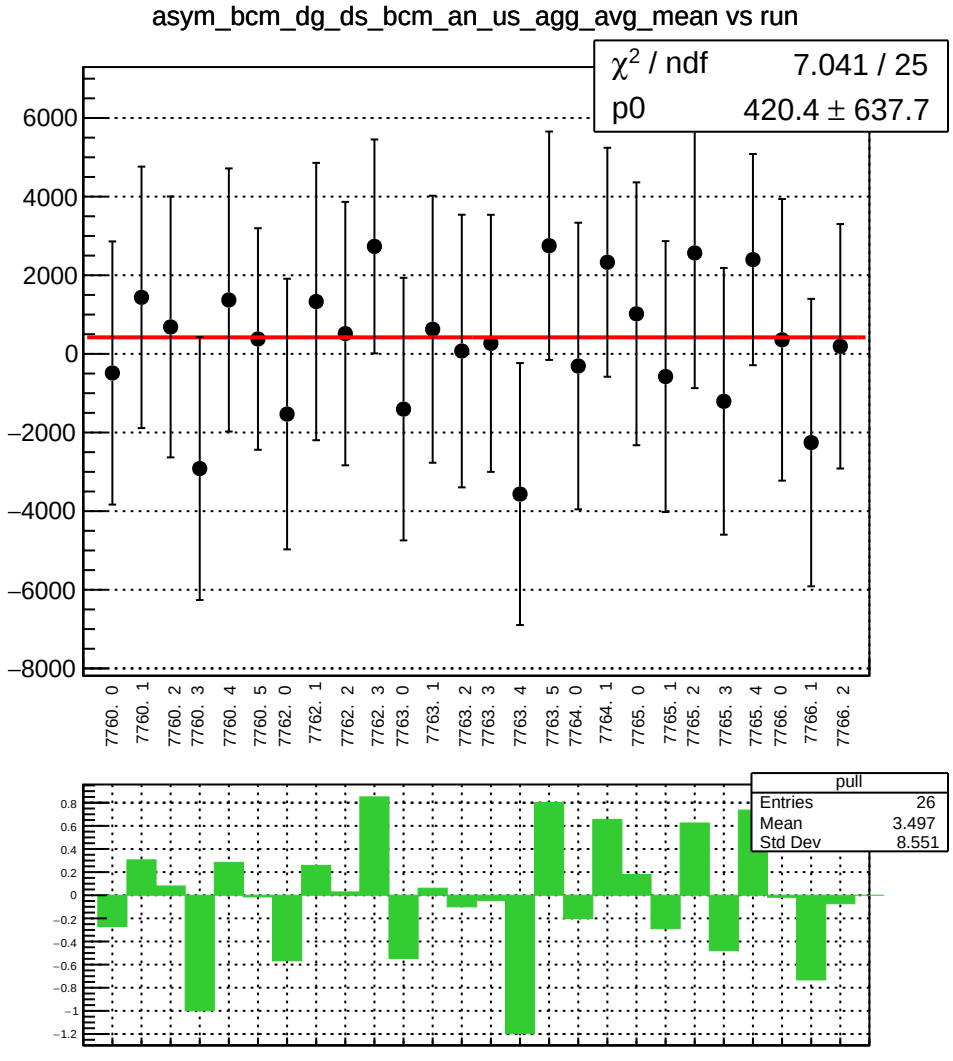

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 7.468 / 25
p0 472.9 ± 638.2
6000
4000
2000
0
−2000
−4000
−6000
−8000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 2.101
Std Dev 7.357
1
0.5
0
−0.5
−1

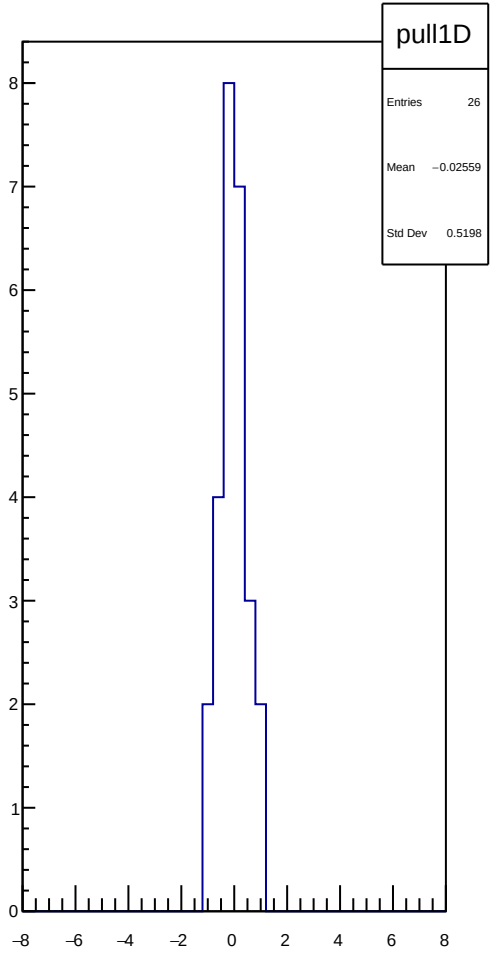

pull1D
Entries 26
Mean −0.02597
Std Dev 0.5353
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

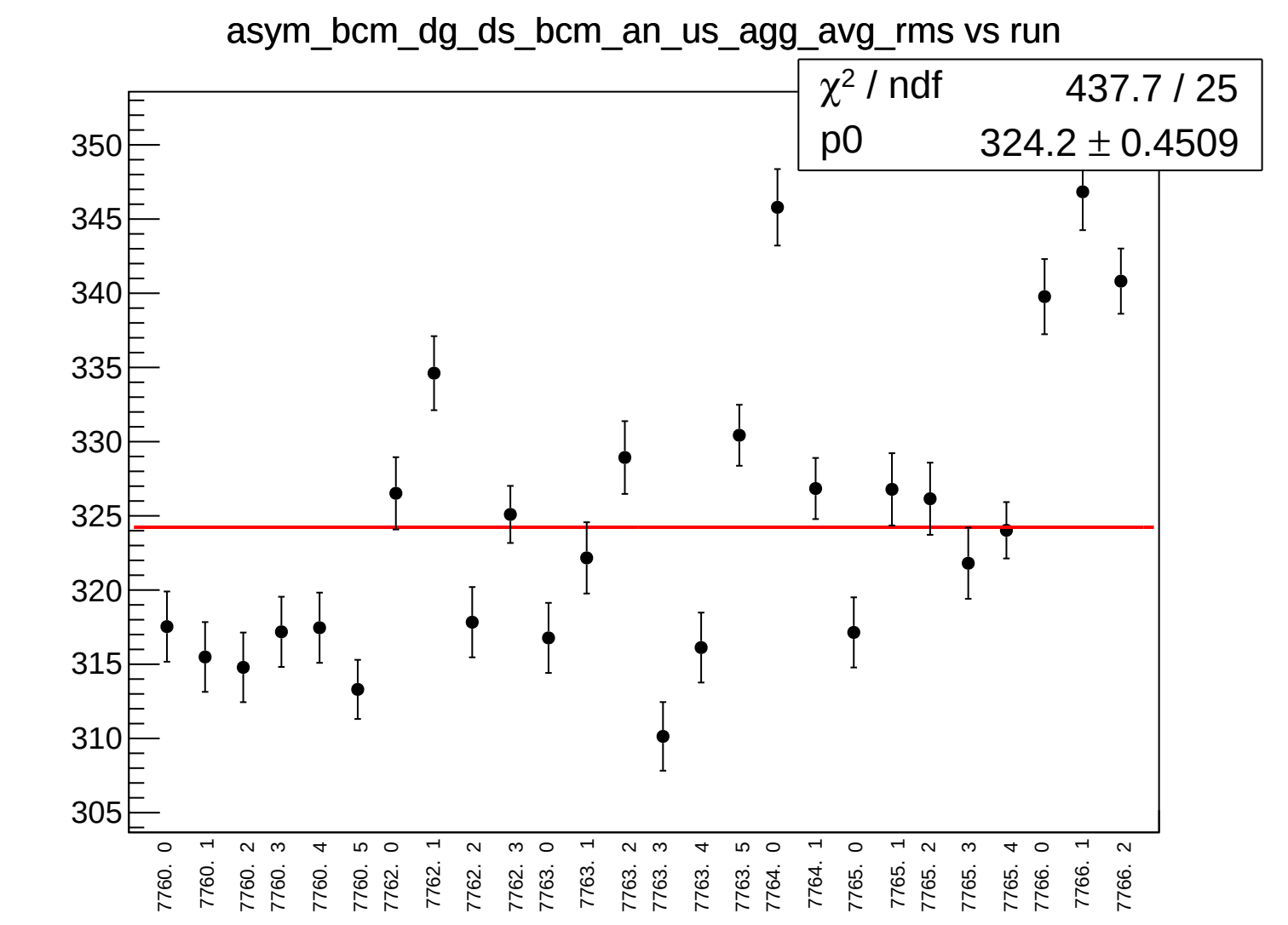

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 428.2 / 25
p0 324.5 ± 0.4512
350
345
340
335
330
325
320
315
310
305
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

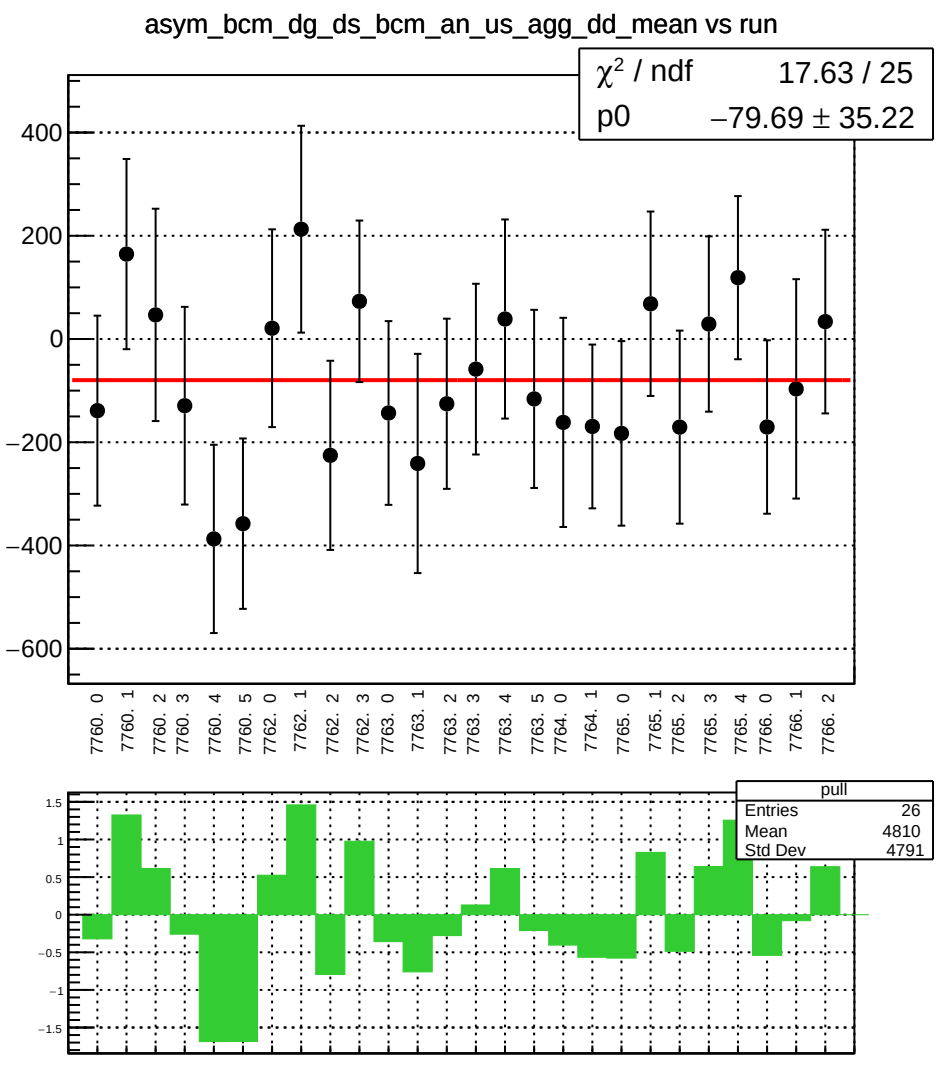

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 20.08 / 25
p0 −23.85 ± 45.47
600
400
200
0
−200
−400
−600
−800
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −68.31
Std Dev 81.79
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 26
Mean −0.01254
Std Dev 0.8787
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

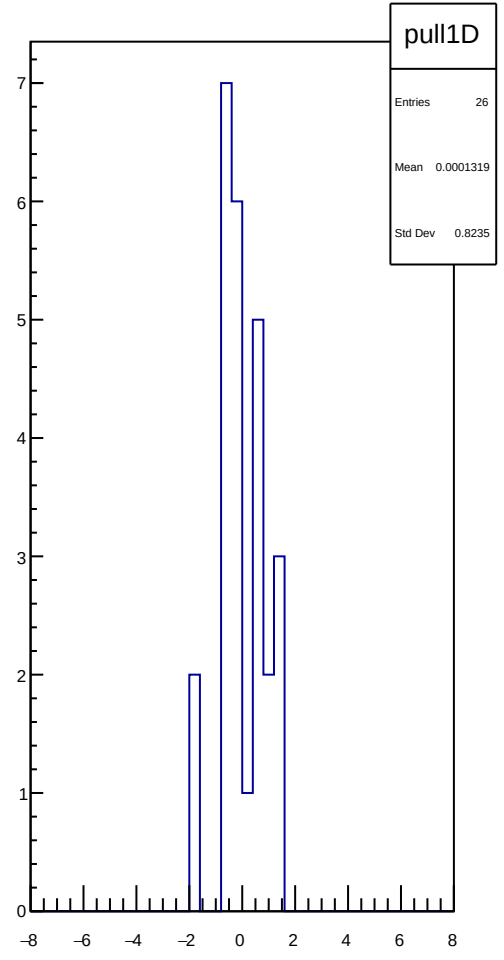

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 798.8 / 25
p0 23.11 ± 0.03215
26
25
24
23
22
21
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

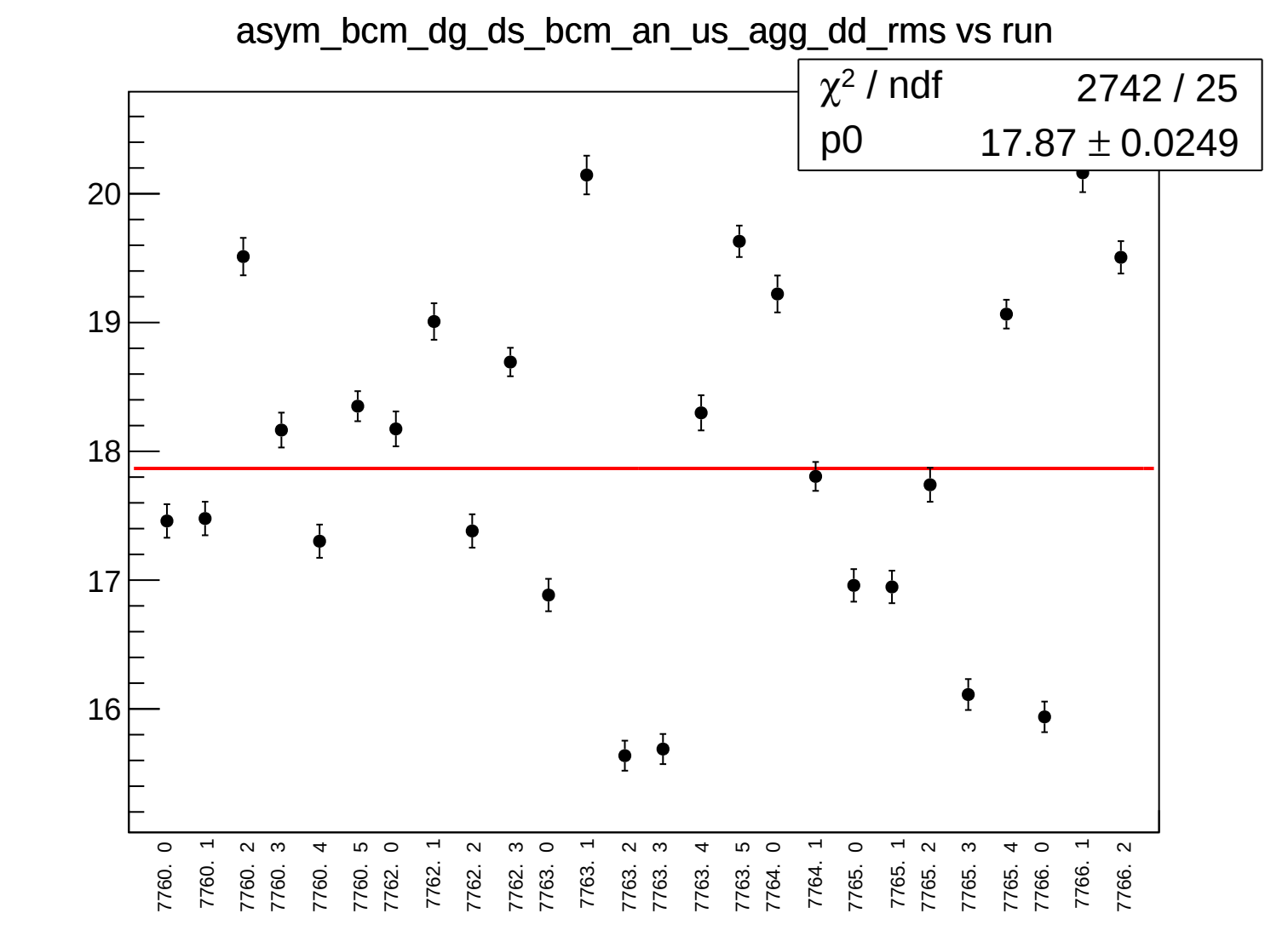

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 7.041 / 25
p0 420.4 ± 637.7
6000
4000
2000
0
−2000
−4000
−6000
−8000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 3.497
Std Dev 8.551
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

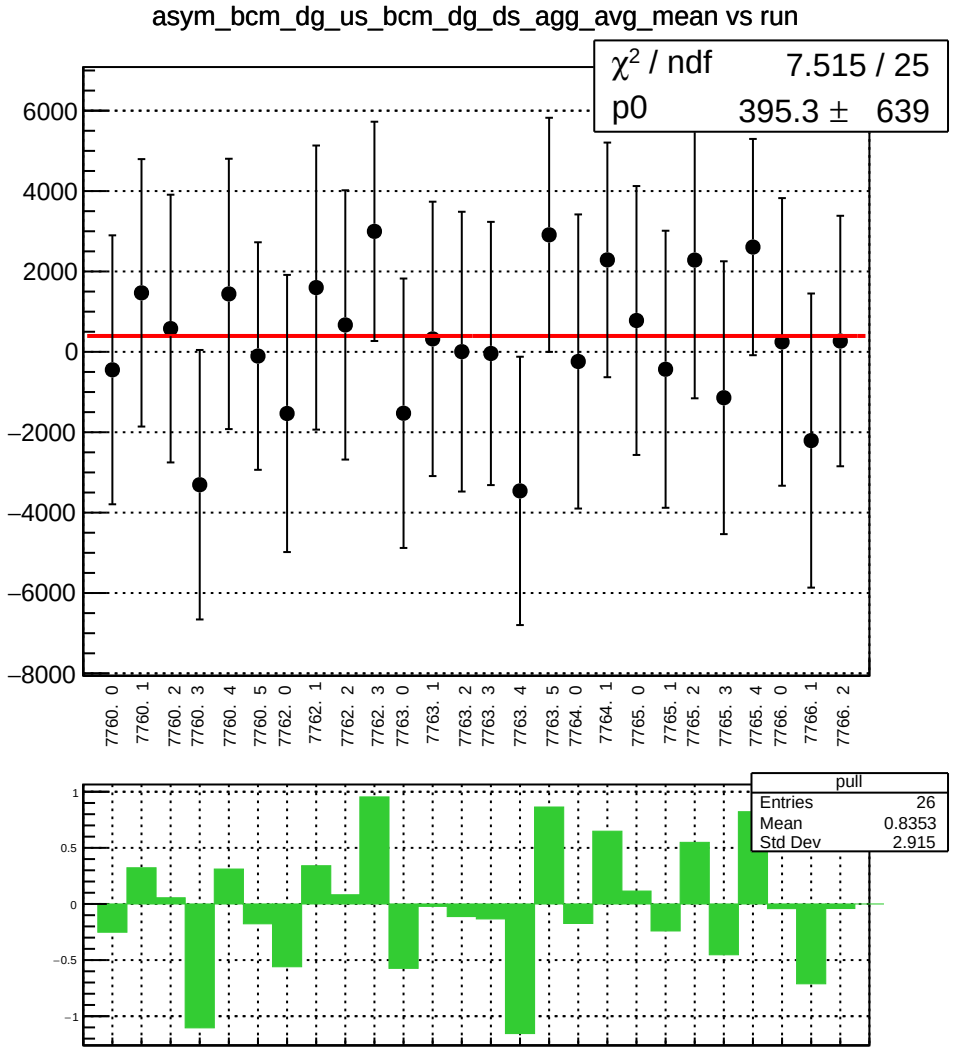

pull1D
Entries 26
Mean −0.02559
Std Dev 0.5198
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

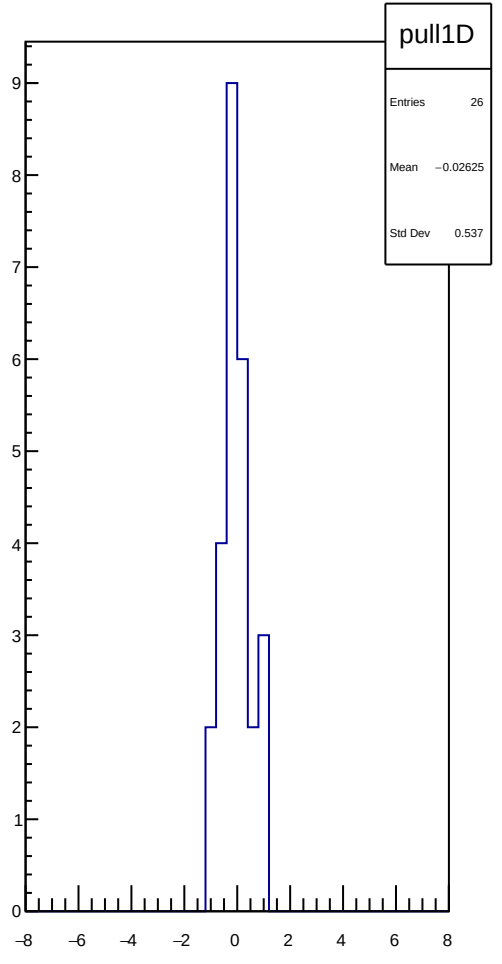

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 437.7 / 25
p0 324.2 ± 0.4509
350
345
340
335
330
325
320
315
310
305
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

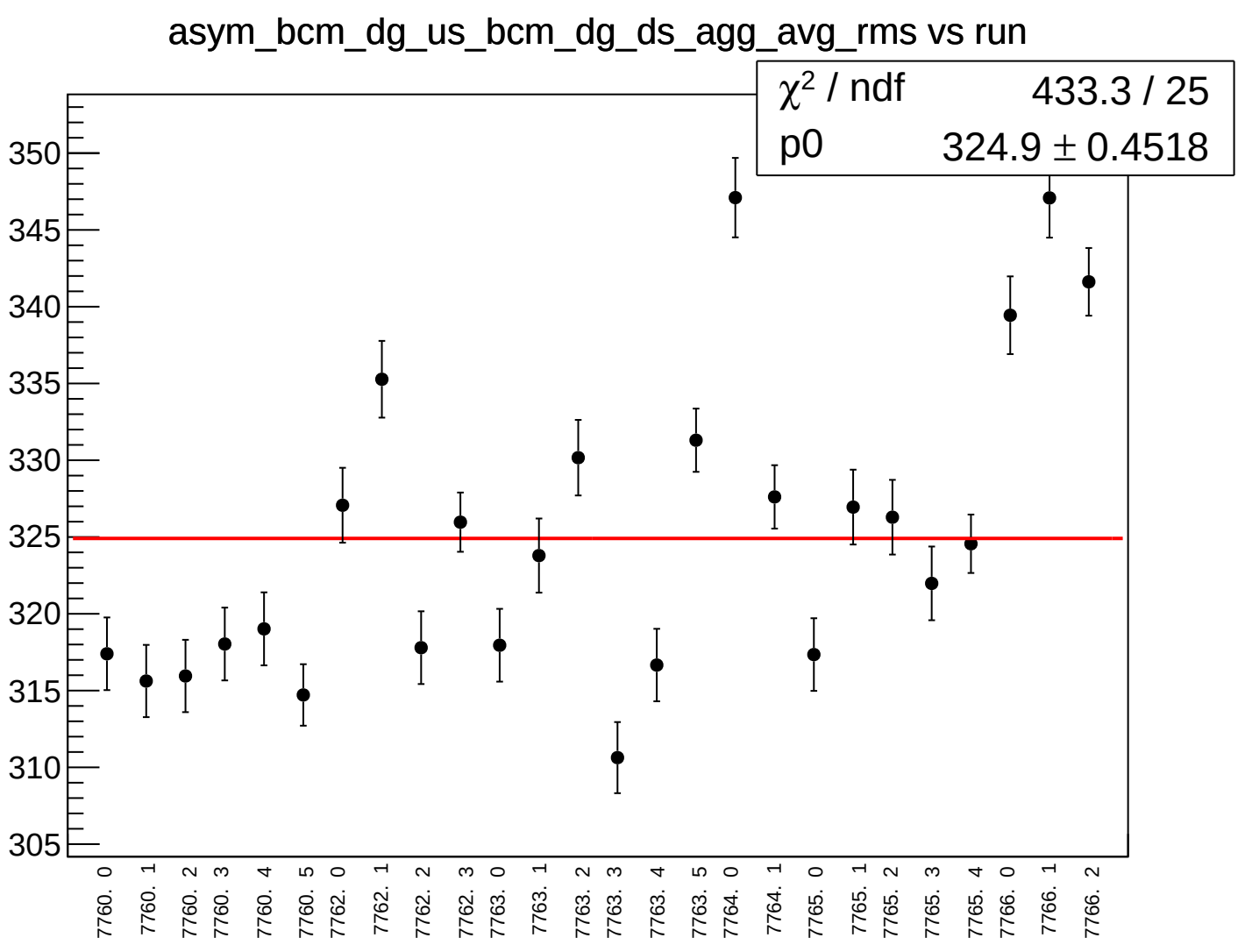

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 17.63 / 25
p0 −79.69 ± 35.22
400
200
0
−200
−400
−600
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 4810
Std Dev 4791
1.5
1
0.5
0
−0.5
−1
−1.5

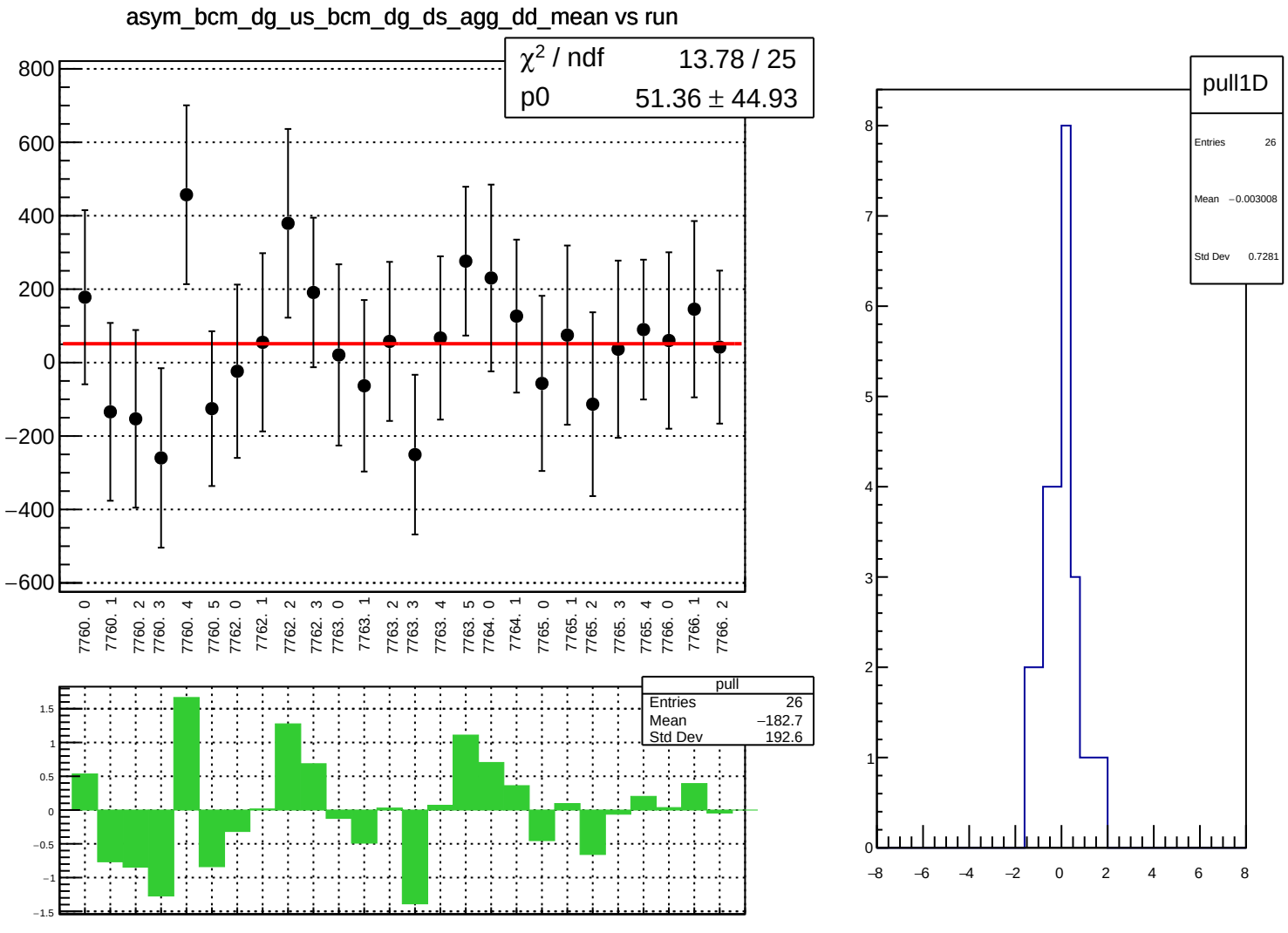

pull1D
Entries 26
Mean 0.0001319
Std Dev 0.8235
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

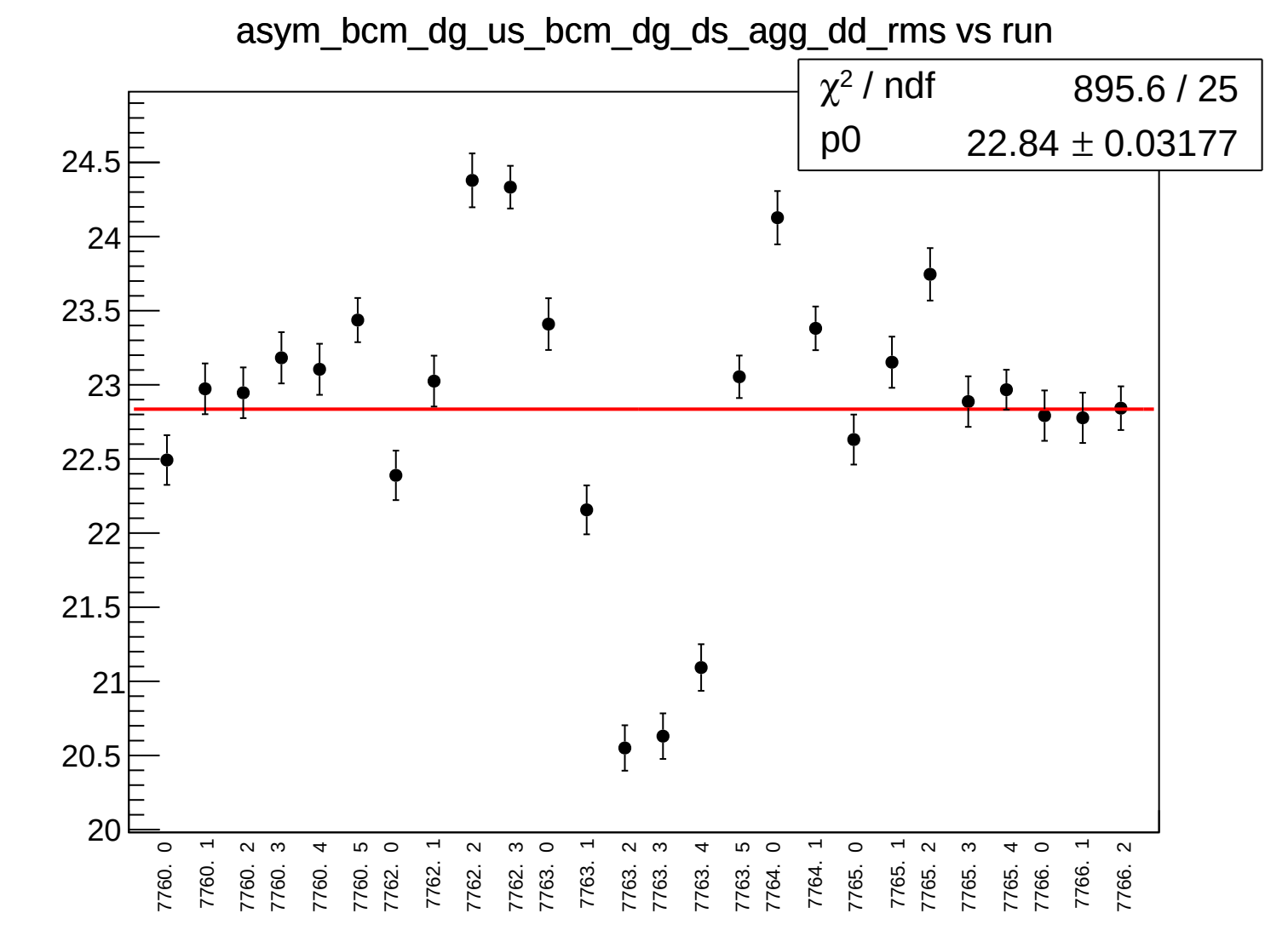

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 2742 / 25
p0 17.87 ± 0.0249
20
19
18
17
16
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

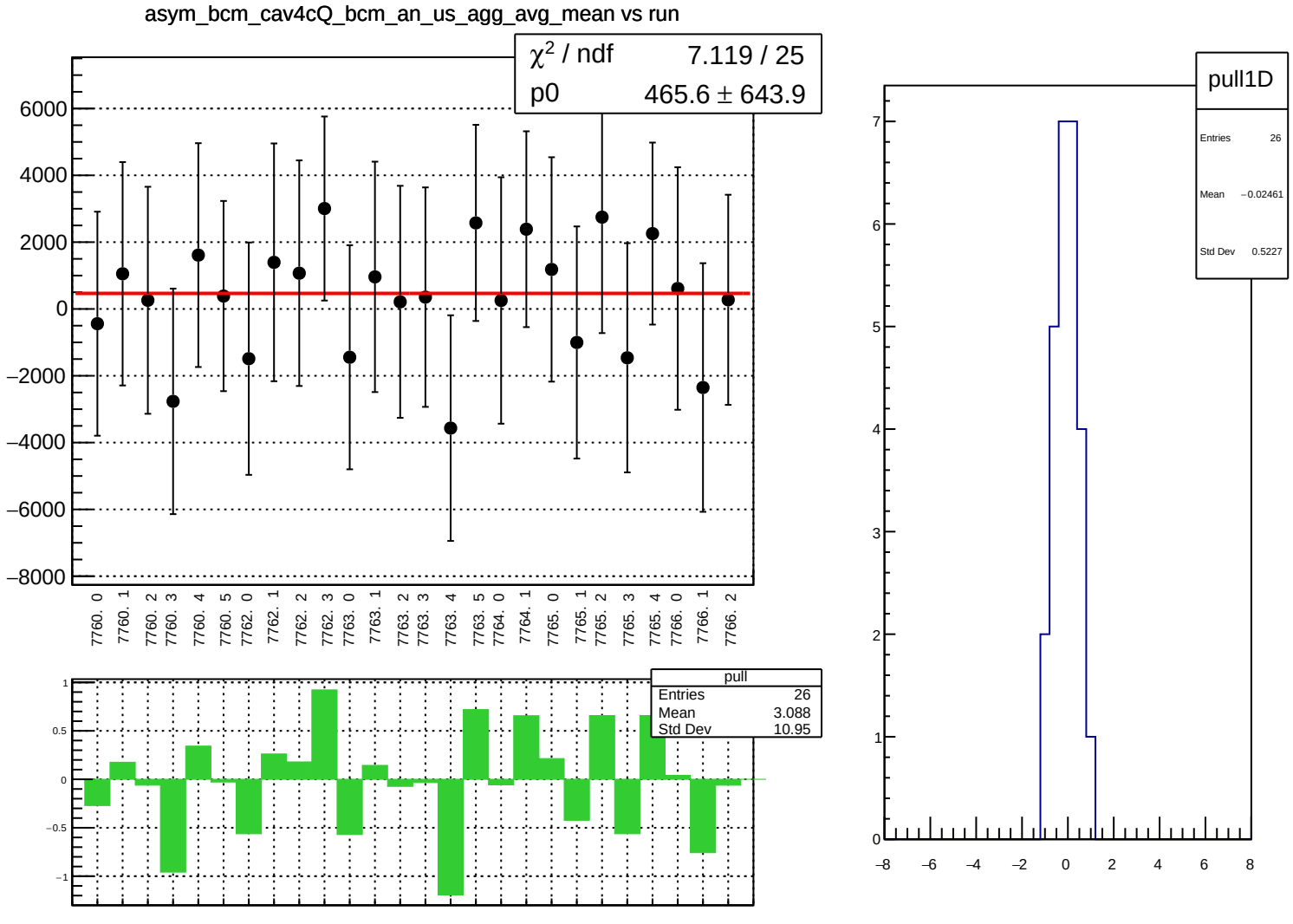

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 7.515 / 25
p0 395.3 ± 639
6000
4000
2000
0
−2000
−4000
−6000
−8000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 0.8353
Std Dev 2.915
1
0.5
0
−0.5
−1

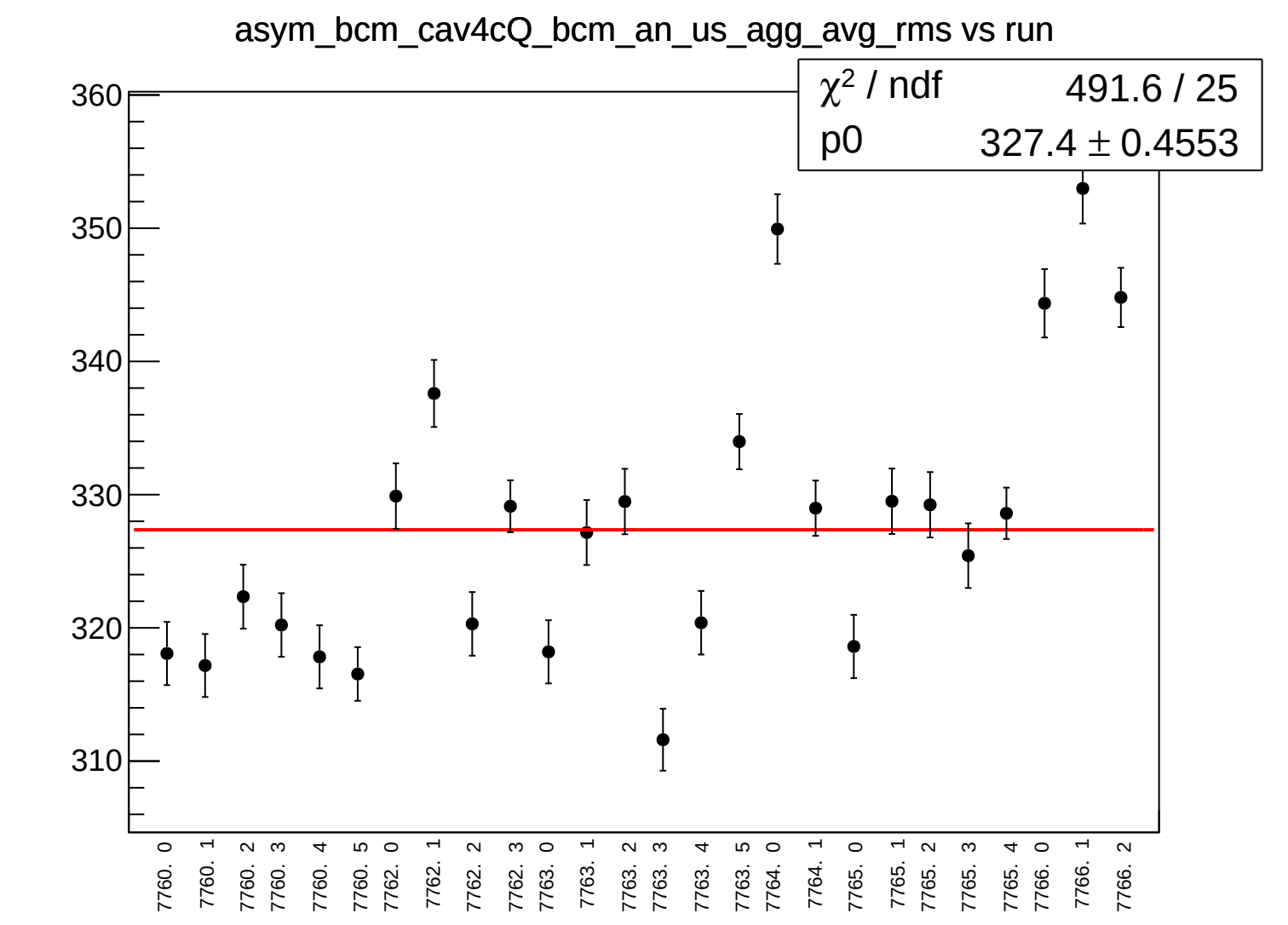

pull1D
Entries 26
Mean −0.02625
Std Dev 0.537
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

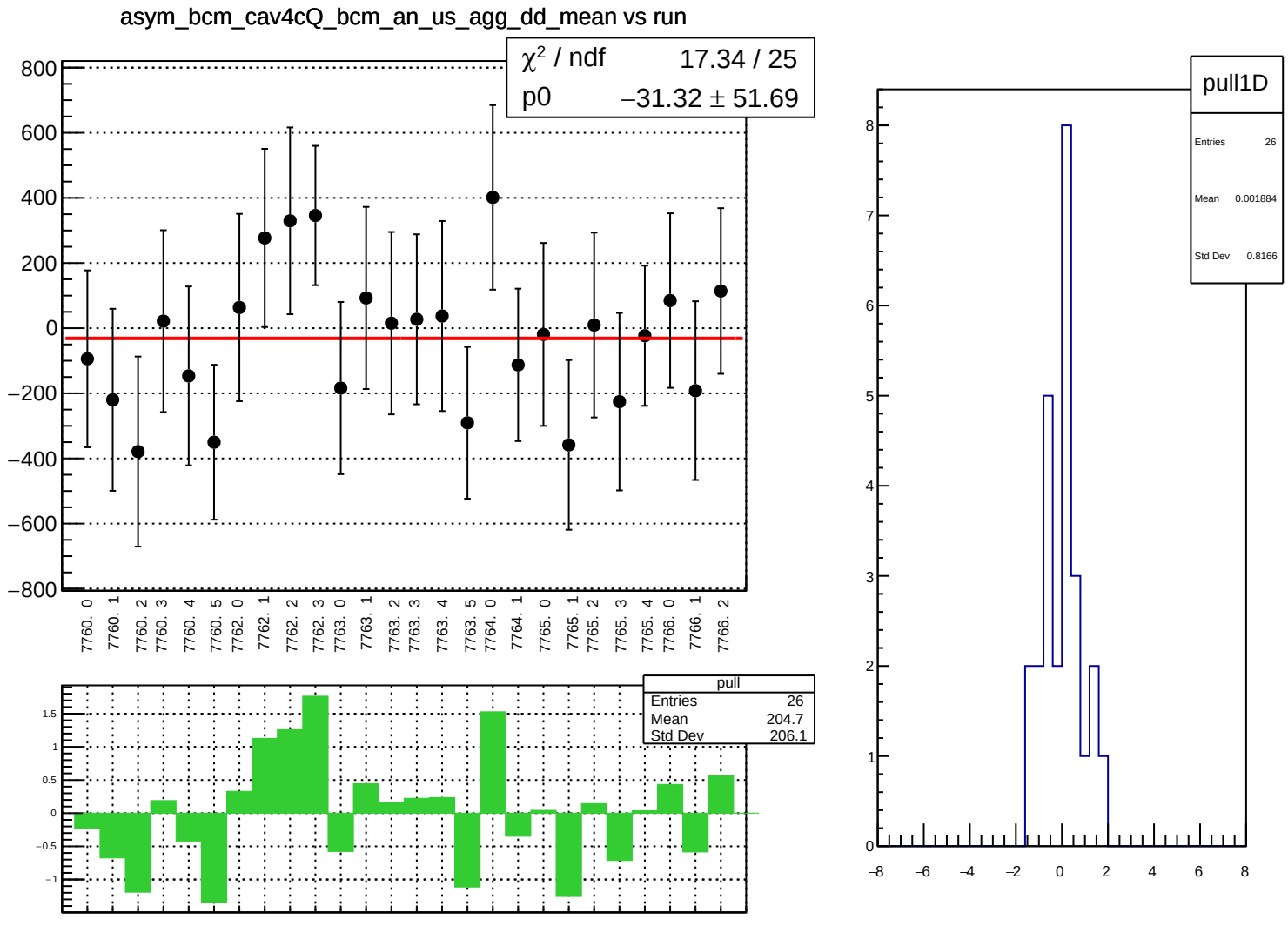

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 433.3 / 25
p0 324.9 ± 0.4518
350
345
340
335
330
325
320
315
310
305
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

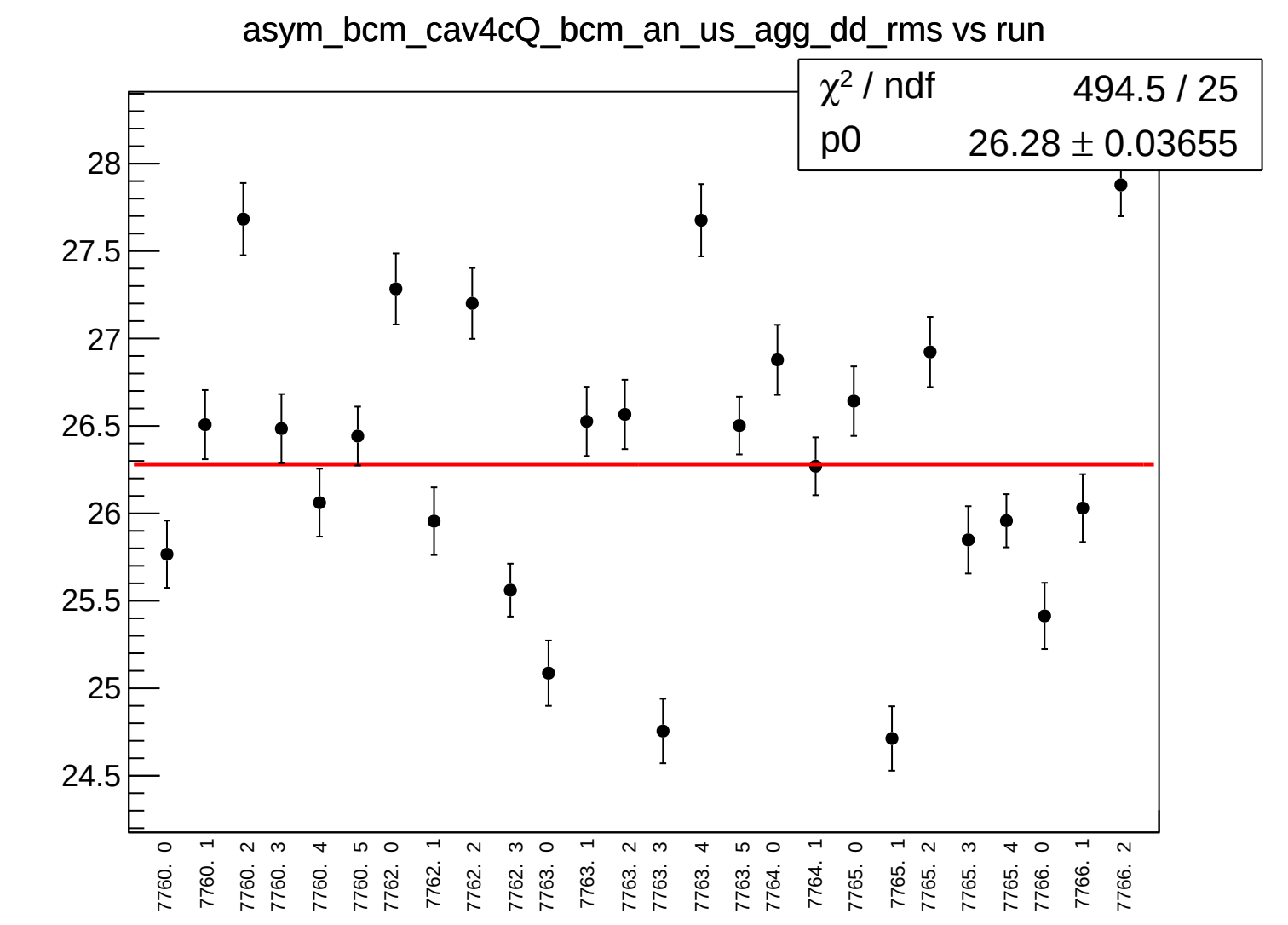

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 13.78 / 25
p0 51.36 ± 44.93
800
600
400
200
0
−200
−400
−600
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −182.7
Std Dev 192.6
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 26
Mean −0.003008
Std Dev 0.7281
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

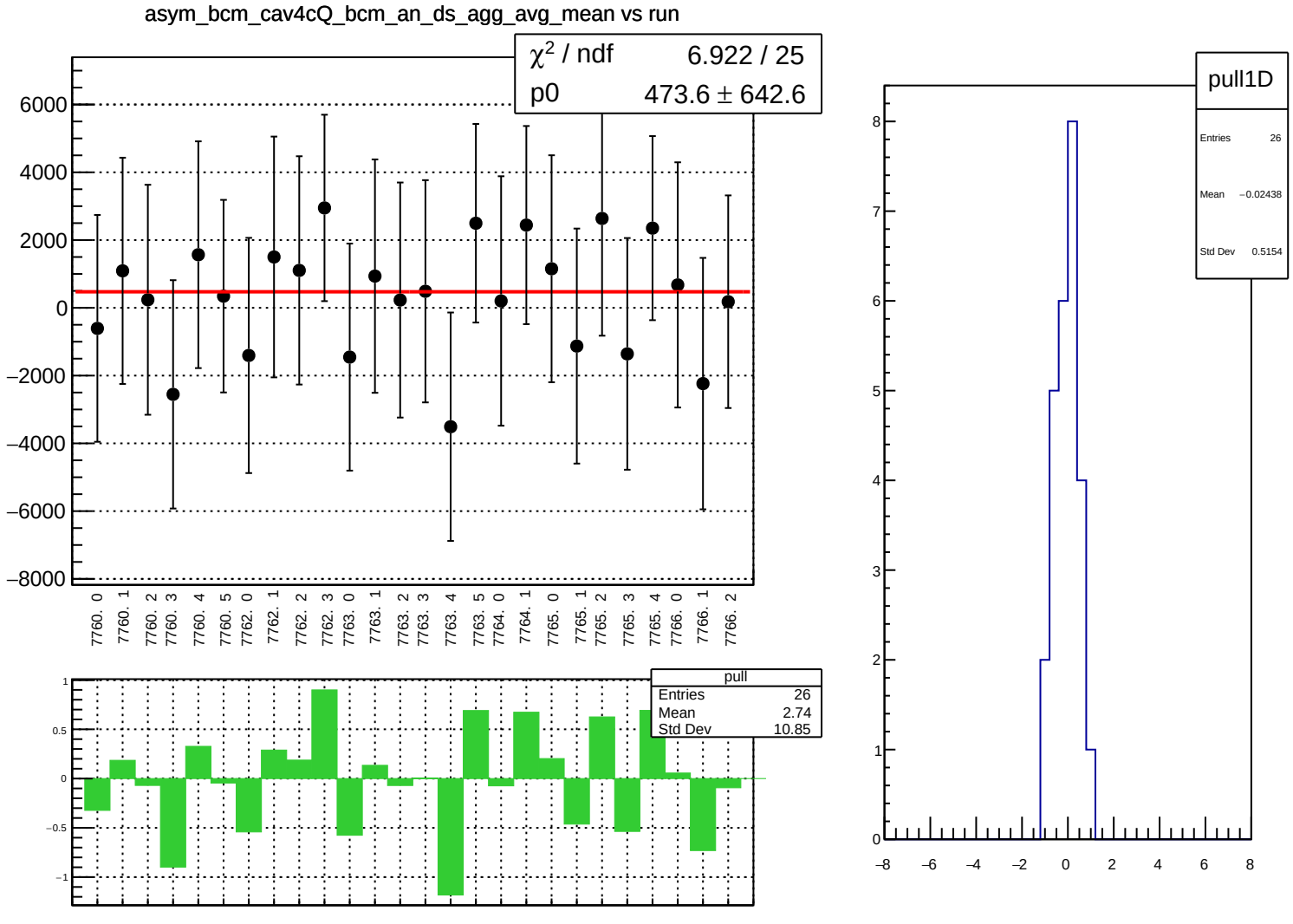

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 895.6 / 25
p0 22.84 ± 0.03177
24.5
24
23.5
23
22.5
22
21.5
21
20.5
20
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

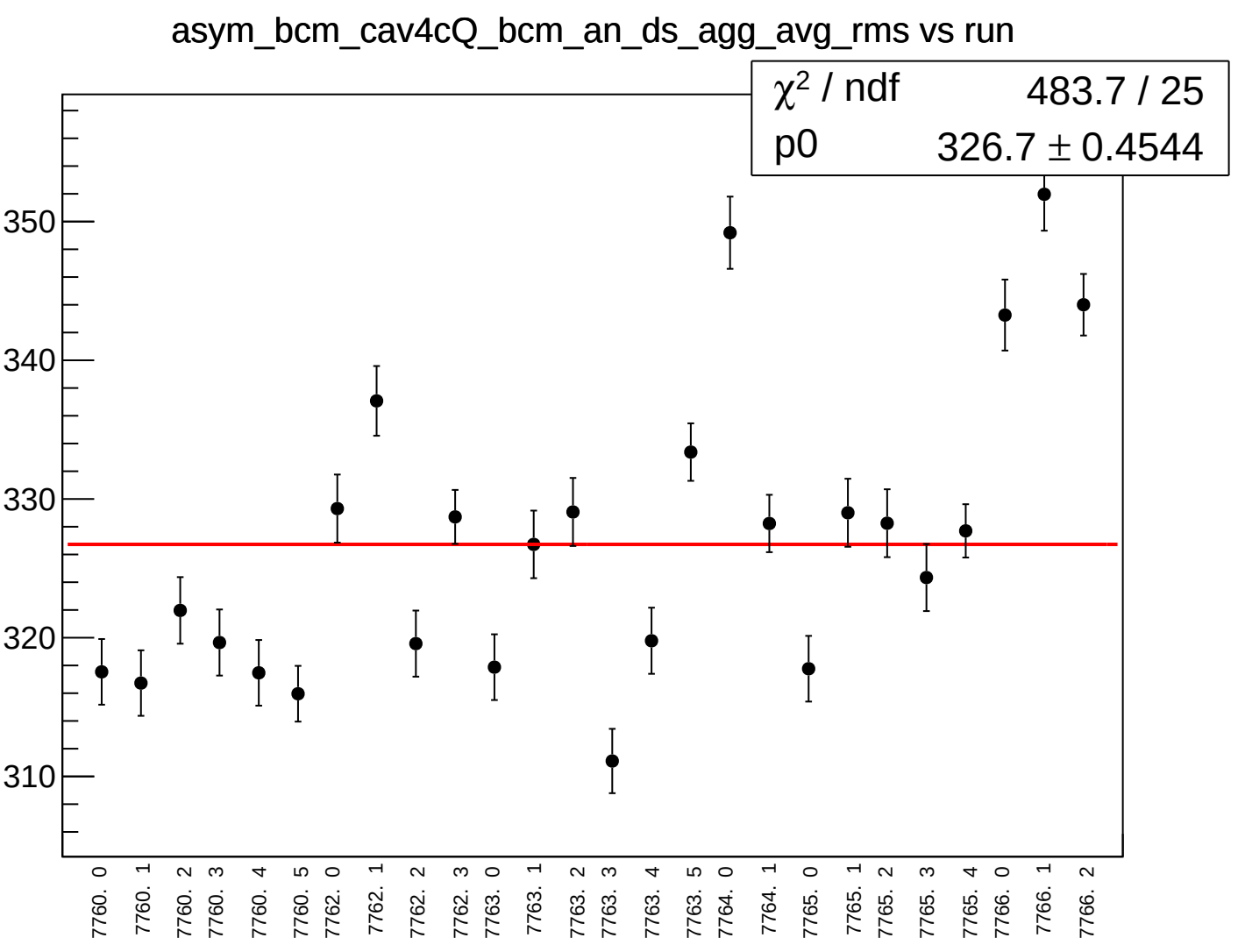

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 7.119 / 25
p0 465.6 ± 643.9
6000
4000
2000
0
−2000
−4000
−6000
−8000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 3.088
Std Dev 10.95
1
0.5
0
−0.5
−1
pull1D
Entries 26
Mean −0.02461
Std Dev 0.5227
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

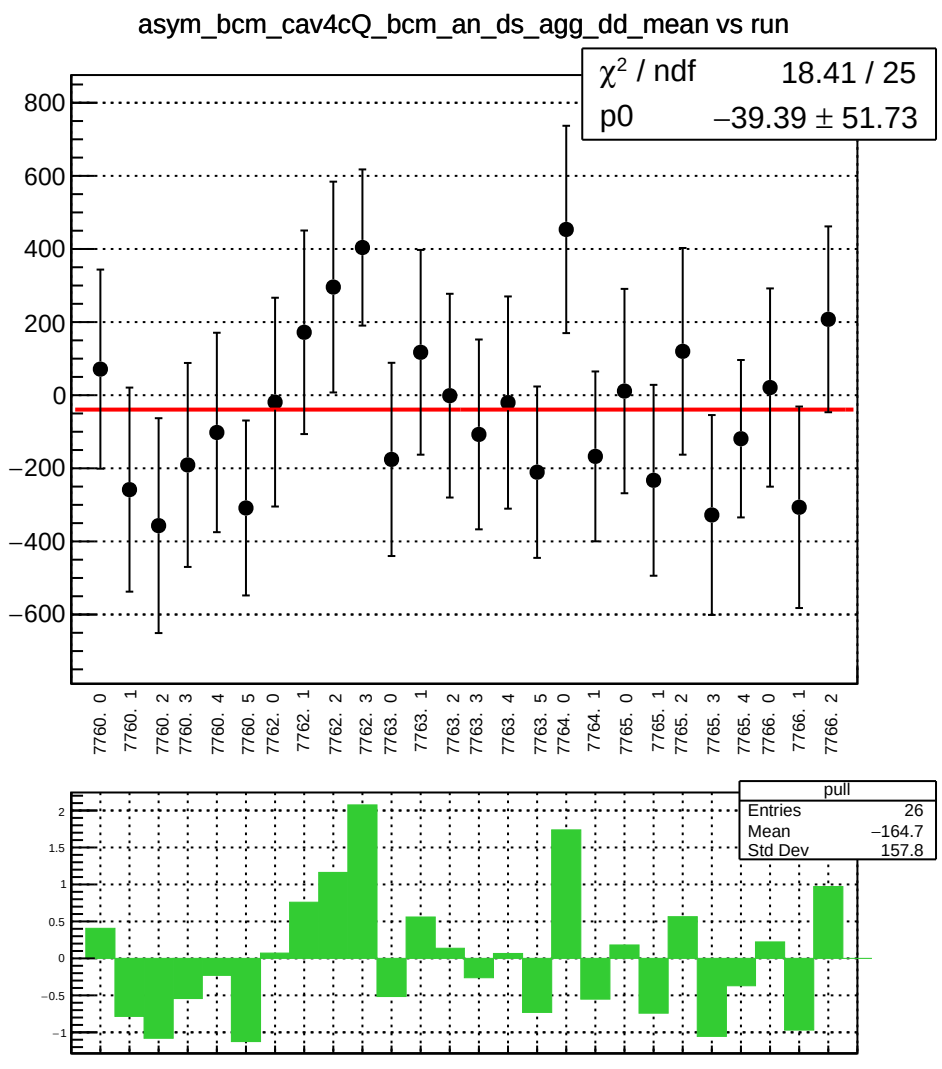

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 491.6 / 25
p0 327.4 ± 0.4553
360
350
340
330
320
310
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

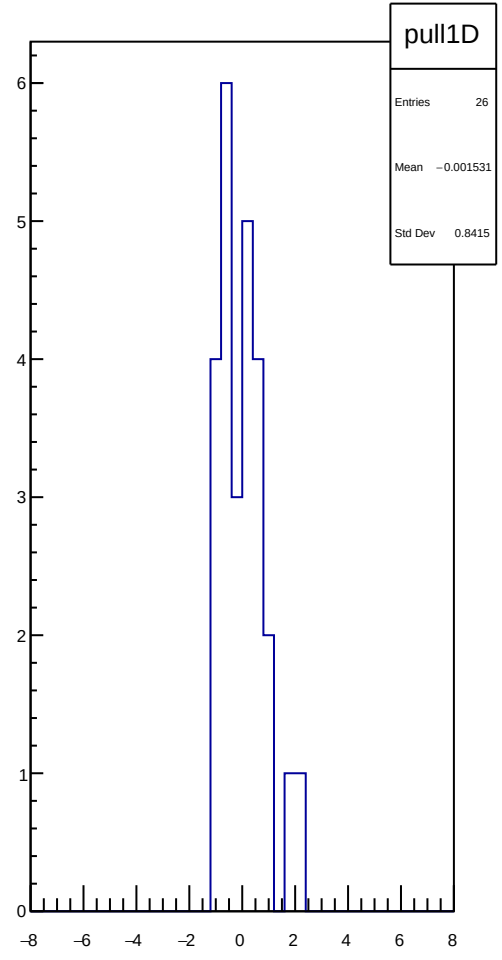

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 17.34 / 25
p0 −31.32 ± 51.69
800
600
400
200
0
−200
−400
−600
−800
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 204.7
Std Dev 206.1
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 26
Mean 0.001884
Std Dev 0.8166
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

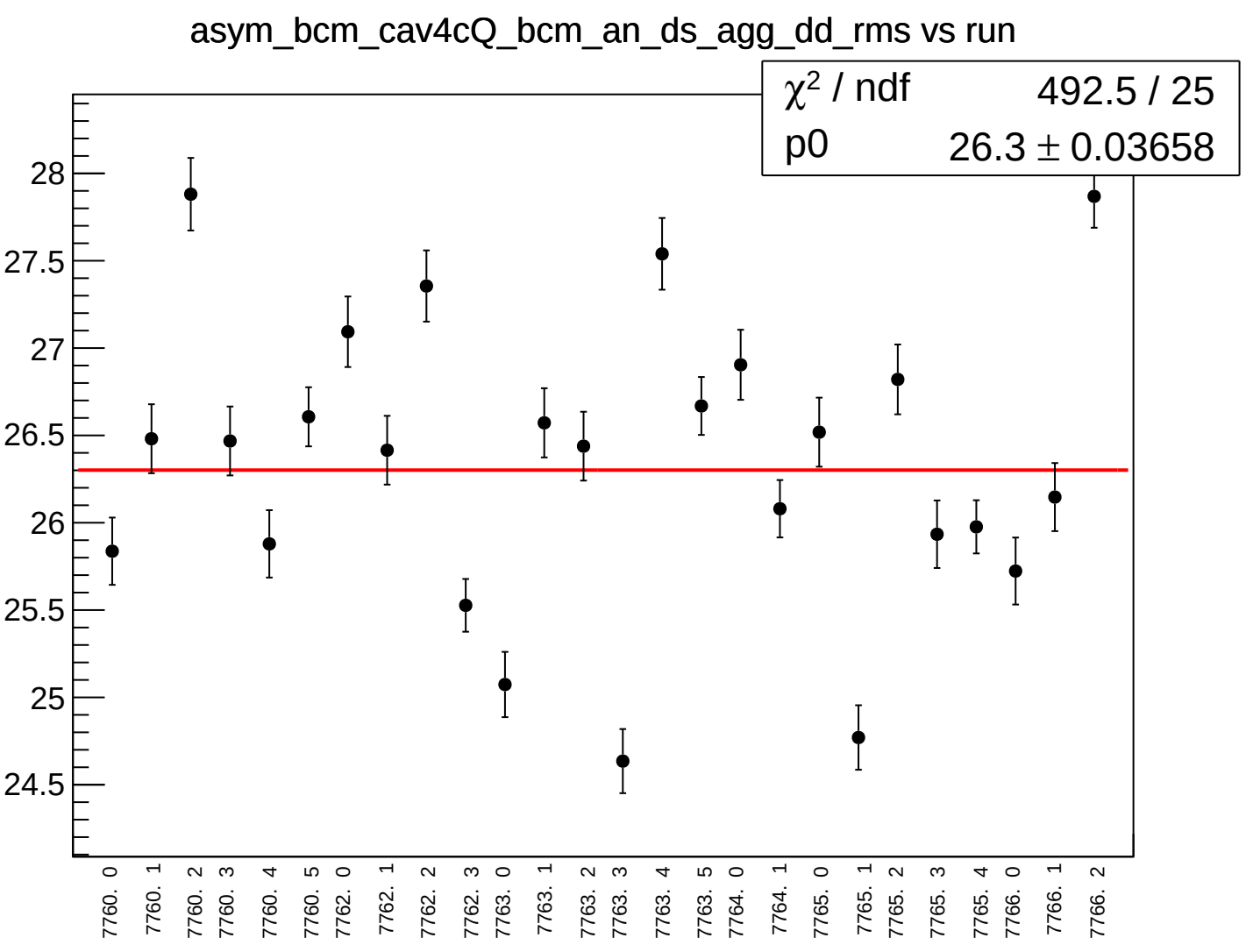

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 494.5 / 25
p0 26.28 ± 0.03655
28
27.5
27
26.5
26
25.5
25
24.5
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

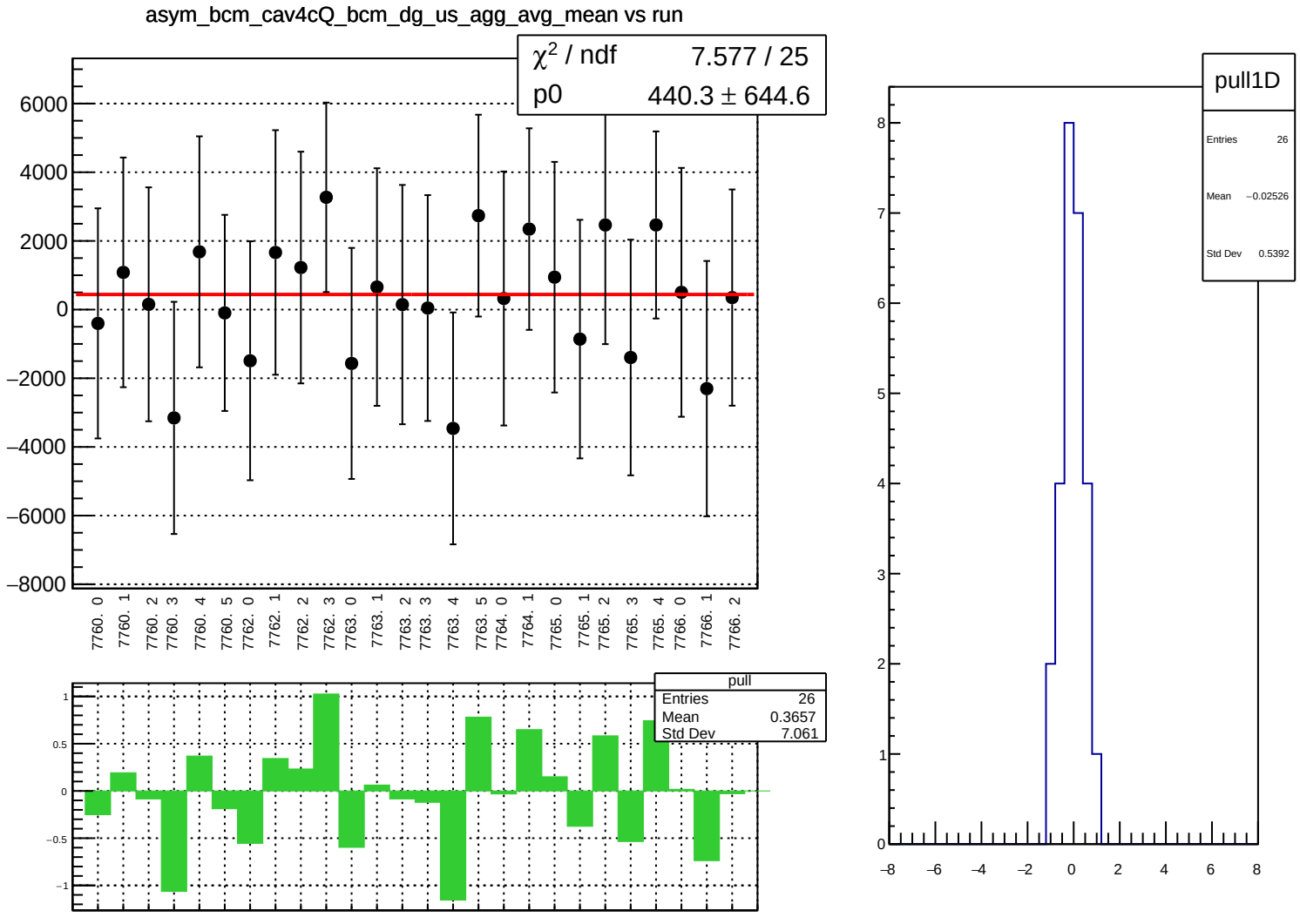

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 6.922 / 25
p0 473.6 ± 642.6
6000
4000
2000
0
−2000
−4000
−6000
−8000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 2.74
Std Dev 10.85
1
0.5
0
−0.5
−1
pull1D
Entries 26
Mean −0.02438
Std Dev 0.5154
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

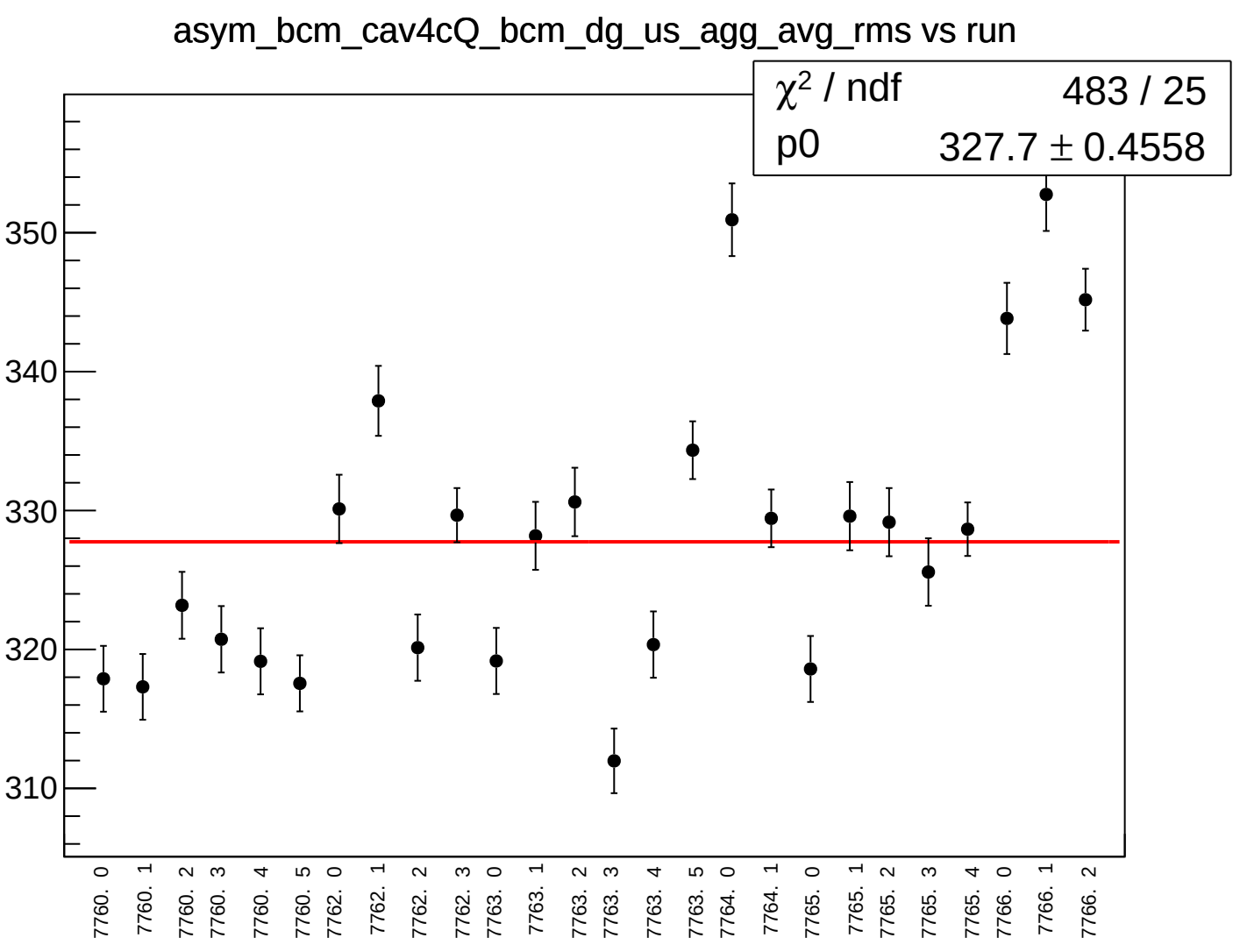

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 483.7 / 25
p0 326.7 ± 0.4544
350
340
330
320
310
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

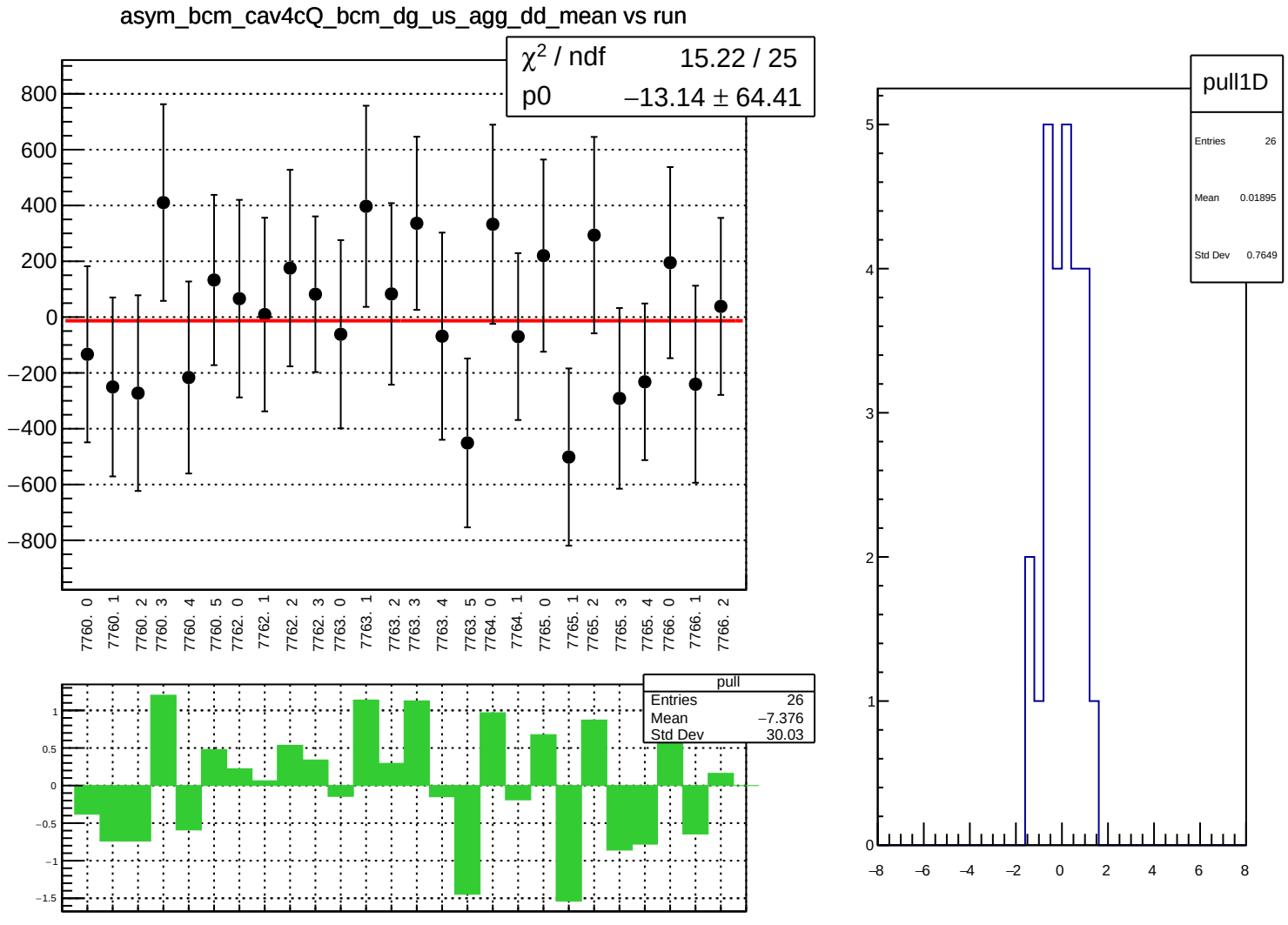

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 18.41 / 25
p0 −39.39 ± 51.73
800
600
400
200
0
−200
−400
−600
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −164.7
Std Dev 157.8
2
1.5
1
0.5
0
−0.5
−1

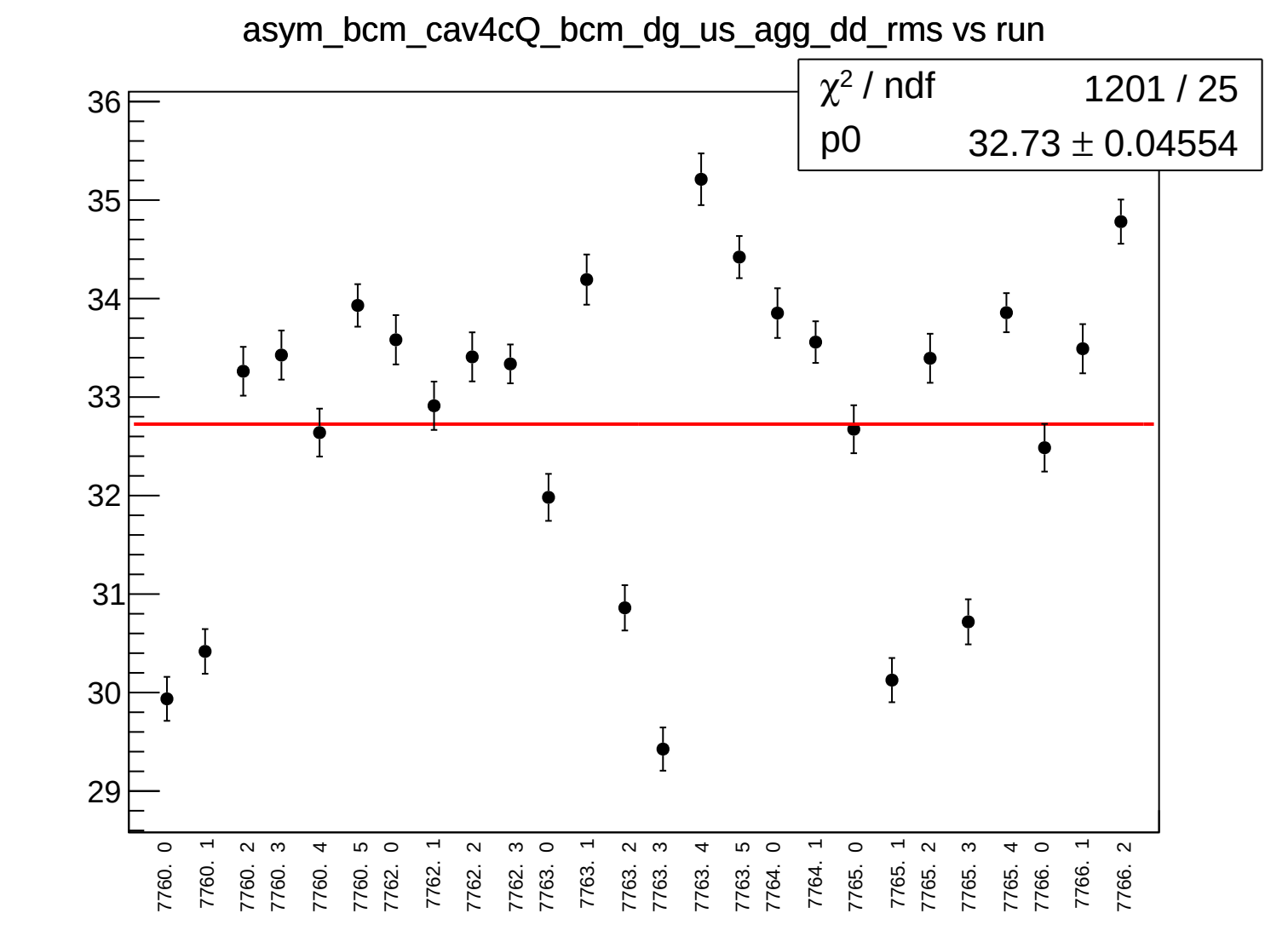

pull1D
Entries 26
Mean −0.001531
Std Dev 0.8415
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

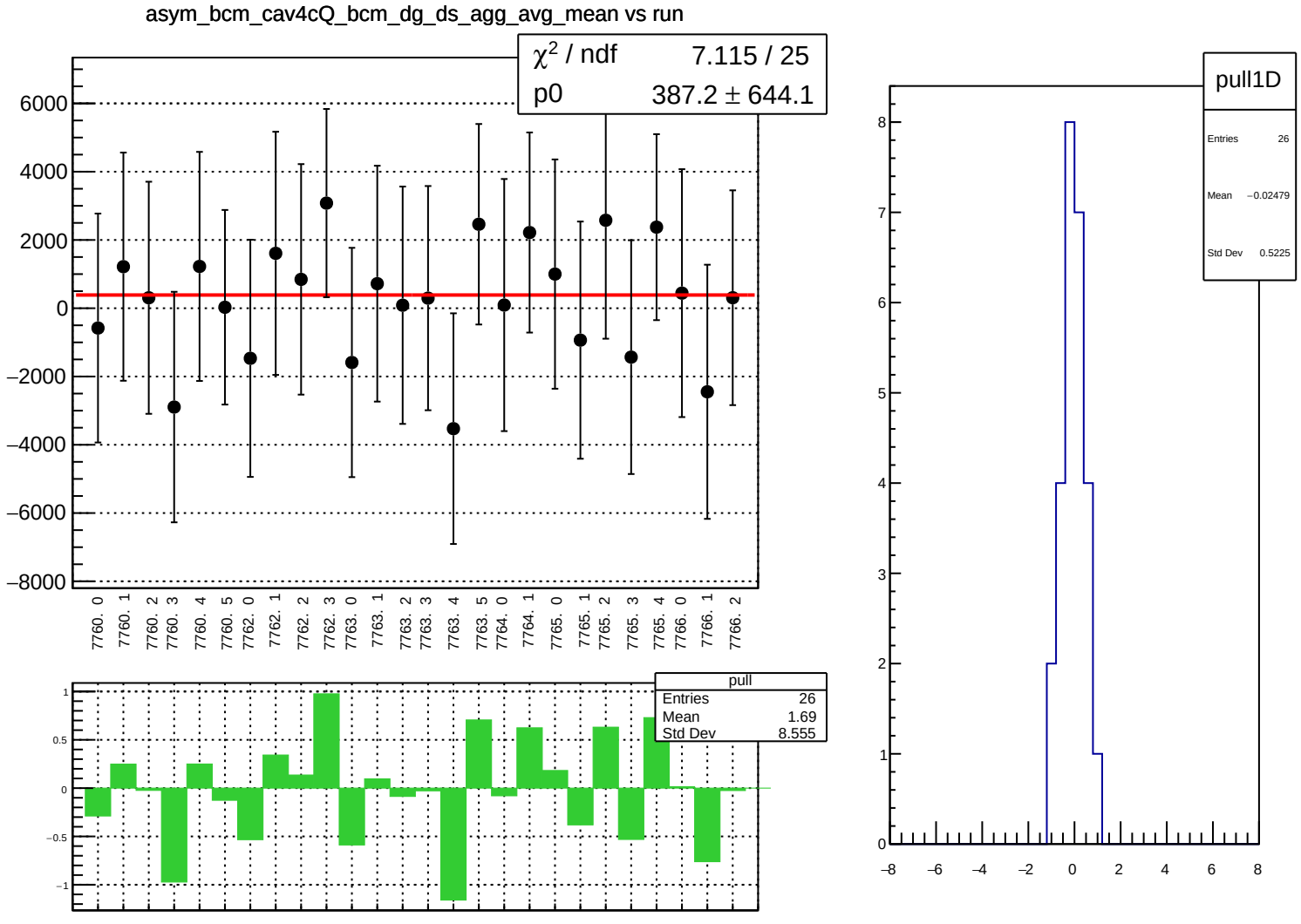

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 492.5 / 25
p0 26.3 ± 0.03658
28
27.5
27
26.5
26
25.5
25
24.5
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

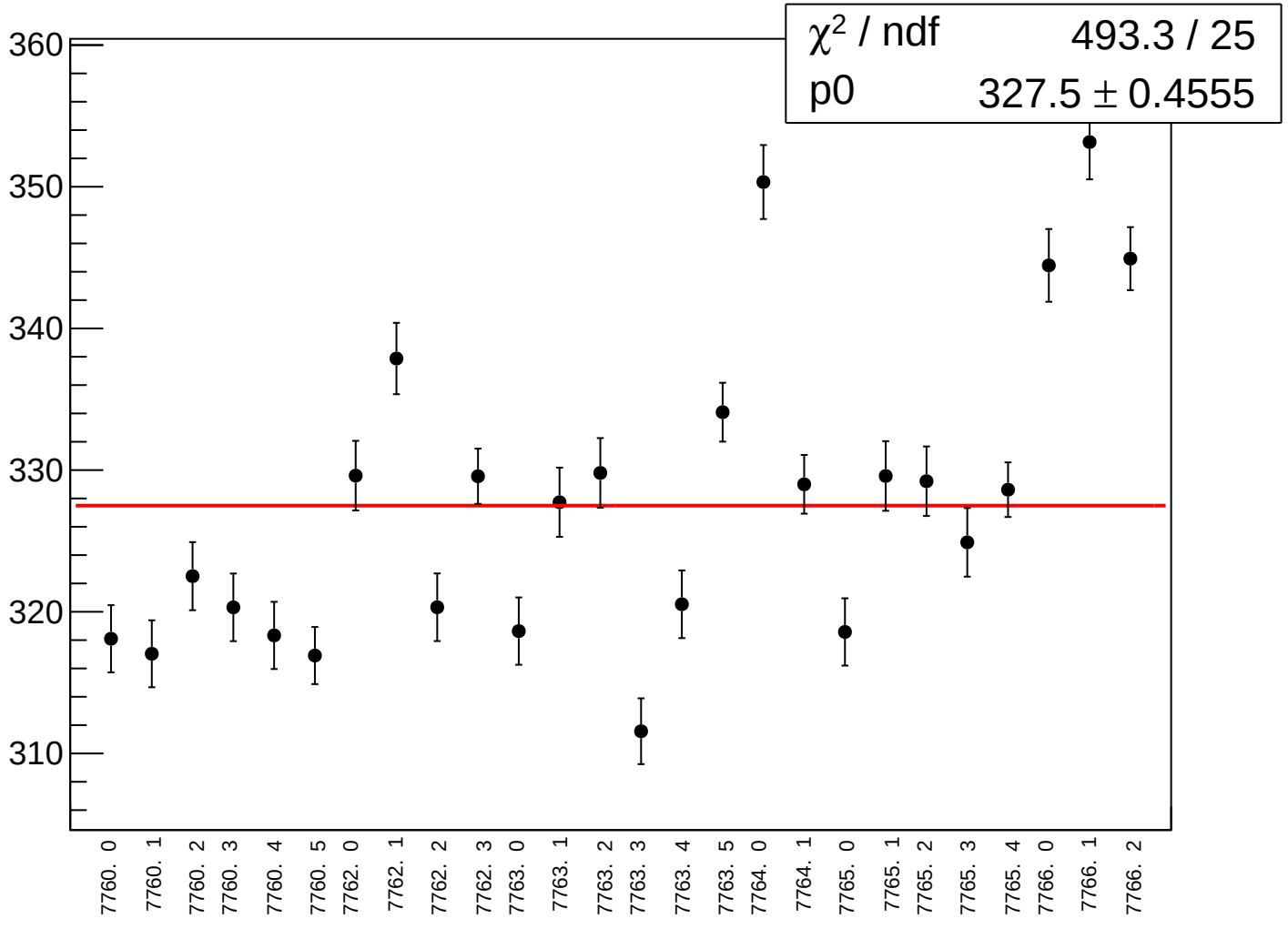

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 7.577 / 25
p0 440.3 ± 644.6
6000
4000
2000
0
−2000
−4000
−6000
−8000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 0.3657
Std Dev 7.061
1
0.5
0
−0.5
−1
pull1D
Entries 26
Mean −0.02526
Std Dev 0.5392
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

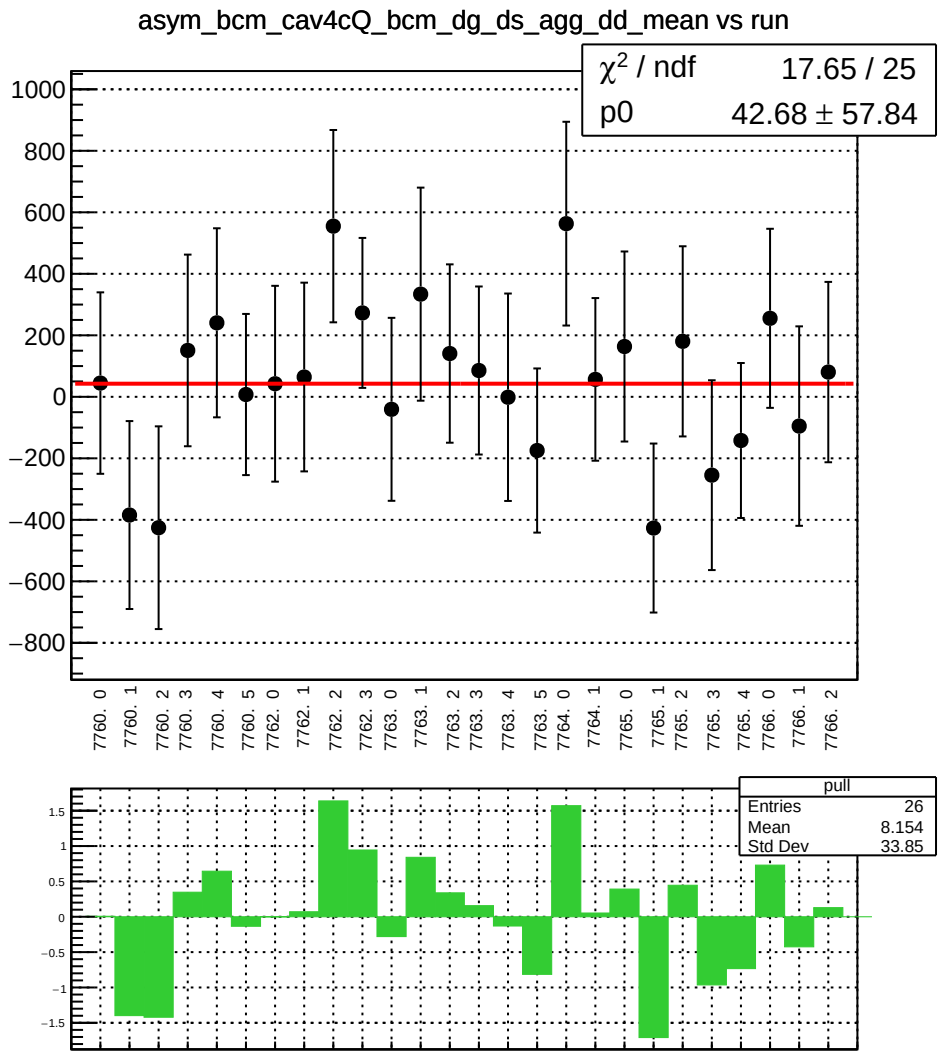

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 483 / 25
p0 327.7 ± 0.4558
350
340
330
320
310
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

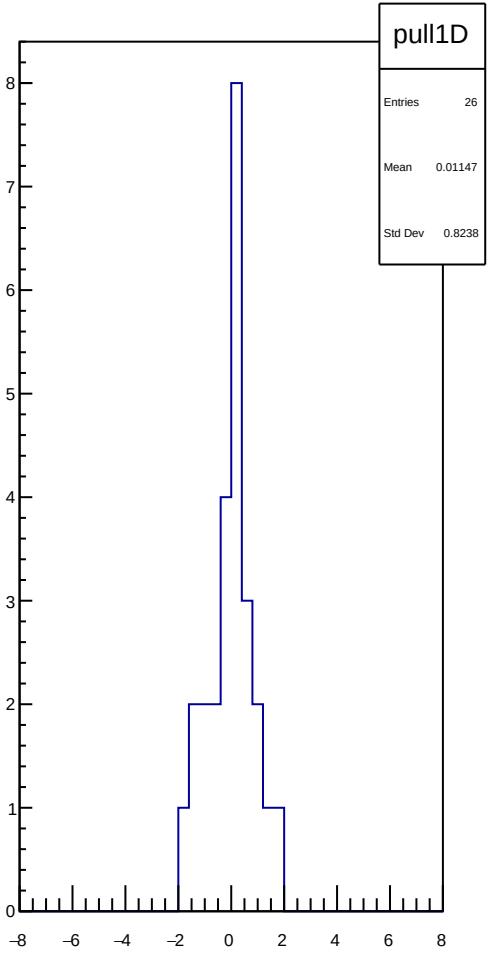

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 15.22 / 25
p0 −13.14 ± 64.41
800
600
400
200
0
−200
−400
−600
−800
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −7.376
Std Dev 30.03
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 26
Mean 0.01895
Std Dev 0.7649
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

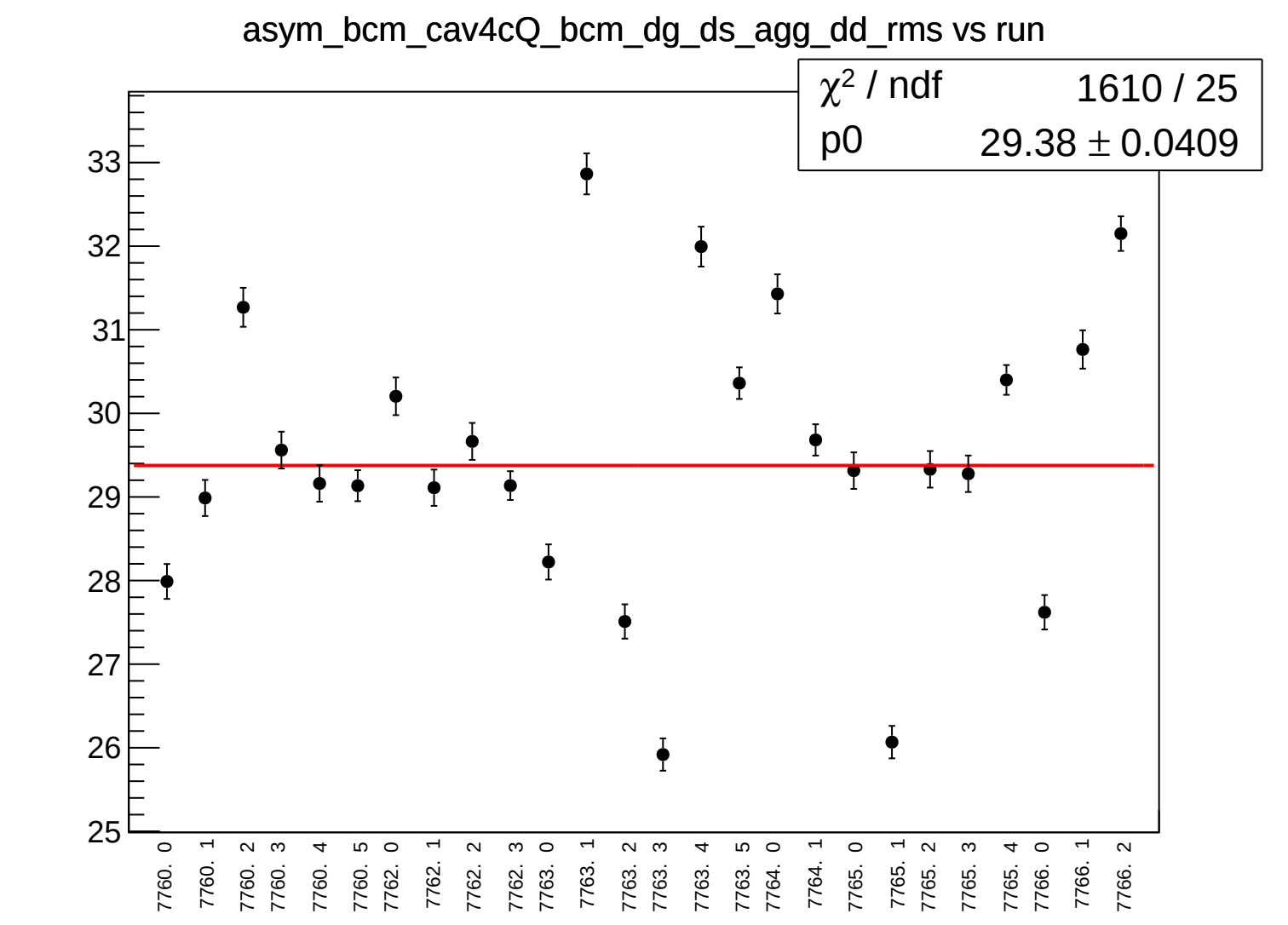

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 1201 / 25
p0 32.73 ± 0.04554
36
35
34
33
32
31
30
29
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

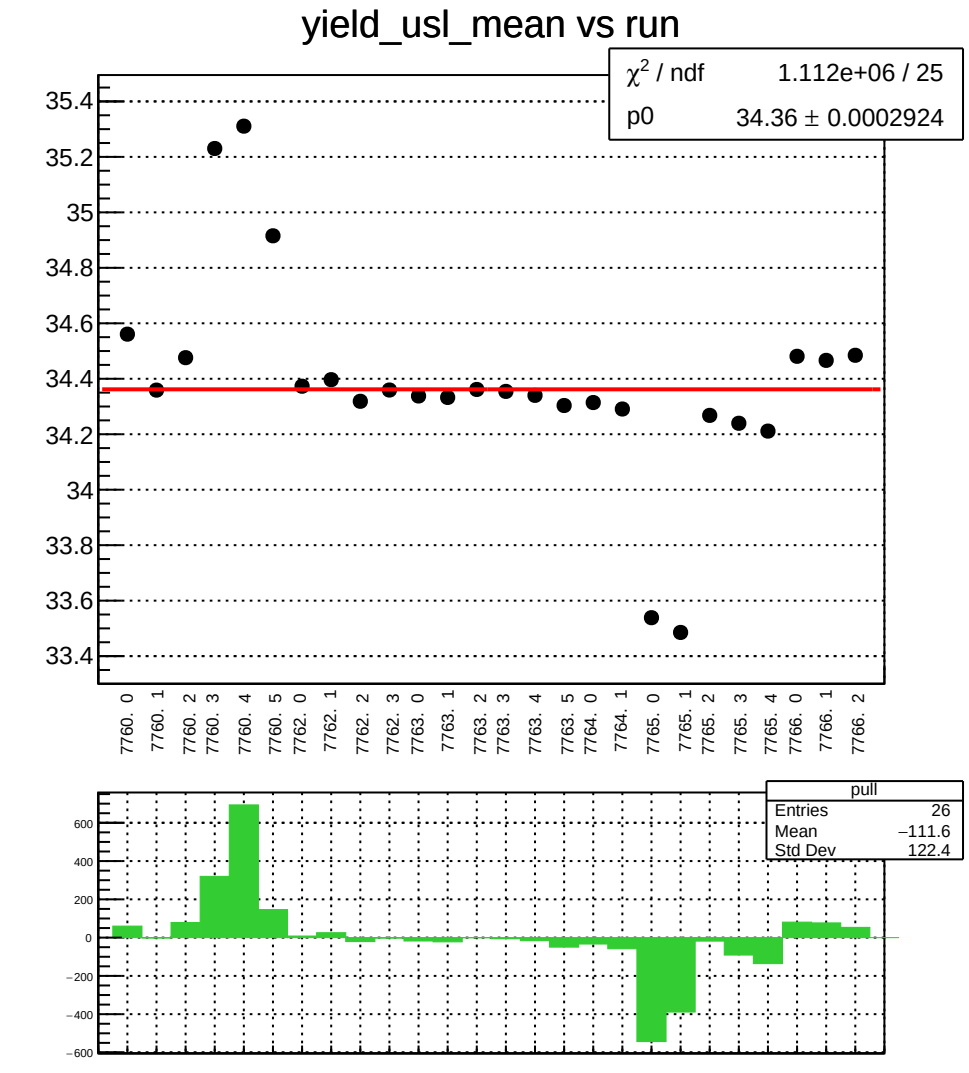

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 7.115 / 25
p0 387.2 ± 644.1
6000
4000
2000
0
−2000
−4000
−6000
−8000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 1.69
Std Dev 8.555
1
0.5
0
−0.5
−1
pull1D
Entries 26
Mean −0.02479
Std Dev 0.5225
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

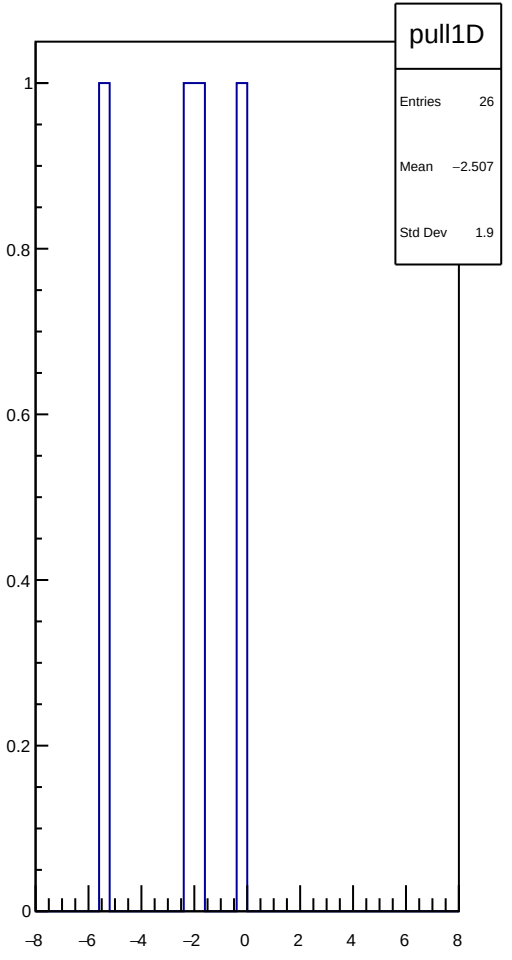

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 493.3 / 25
p0 327.5 ± 0.4555
360
350
340
330
320
310
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

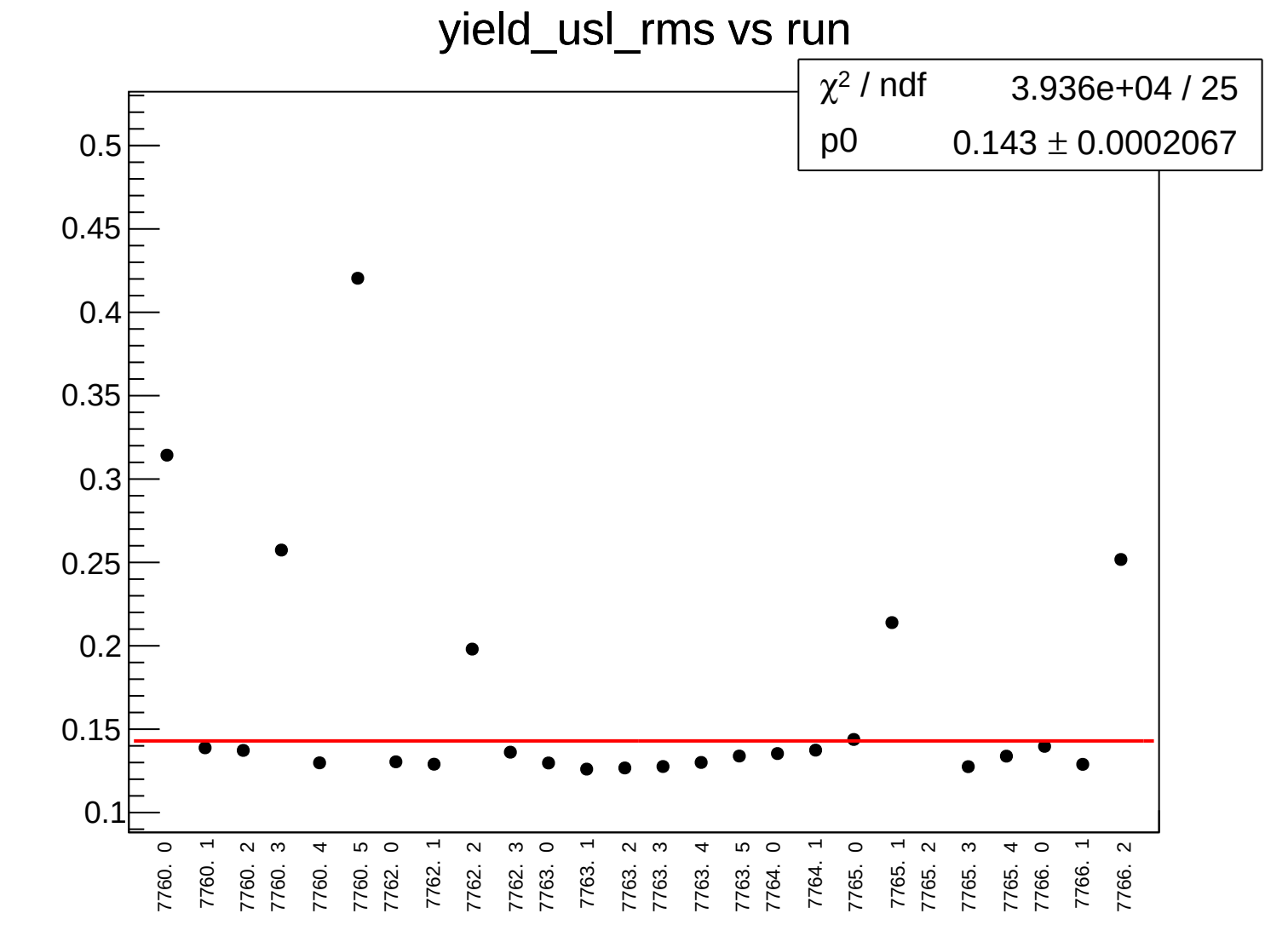

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 17.65 / 25
p0 42.68 ± 57.84
1000
800
600
400
200
0
−200
−400
−600
−800
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 8.154
Std Dev 33.85
1.5
1
0.5
0
−0.5
−1
−1.5

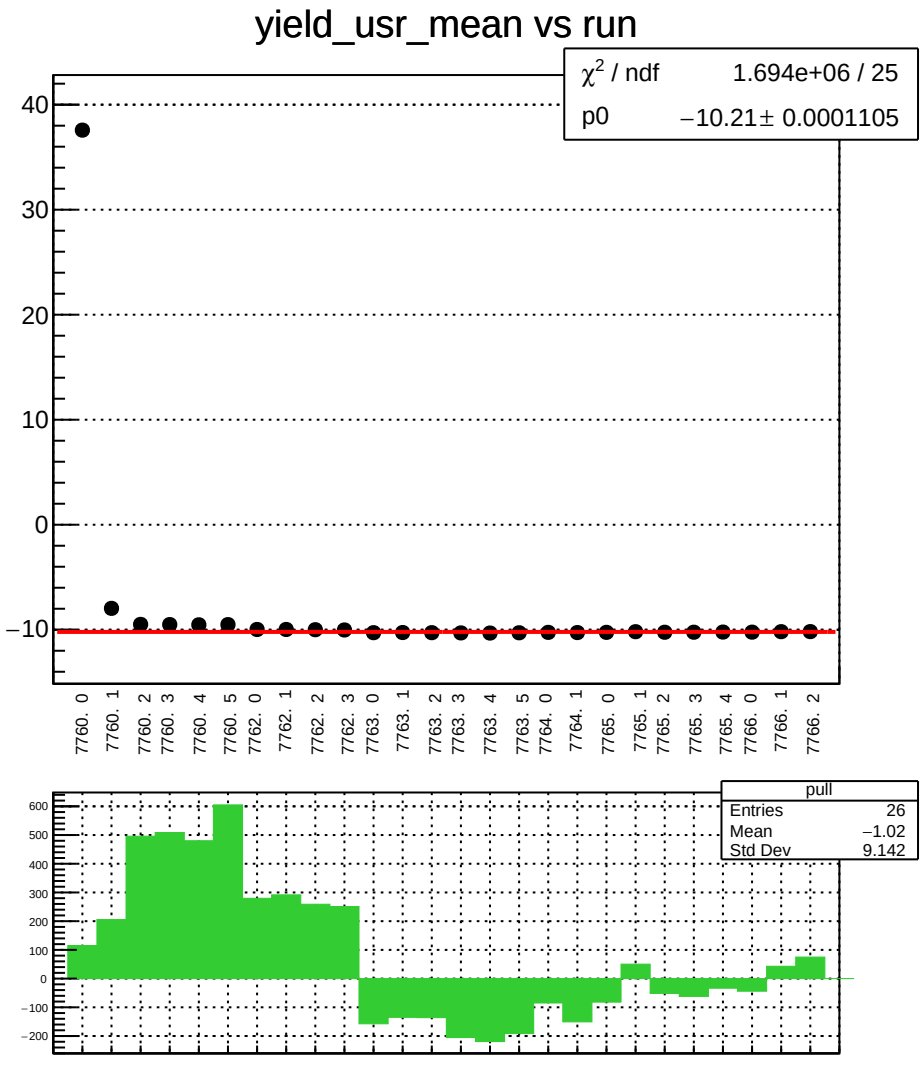

pull1D
Entries 26
Mean 0.01147
Std Dev 0.8238
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

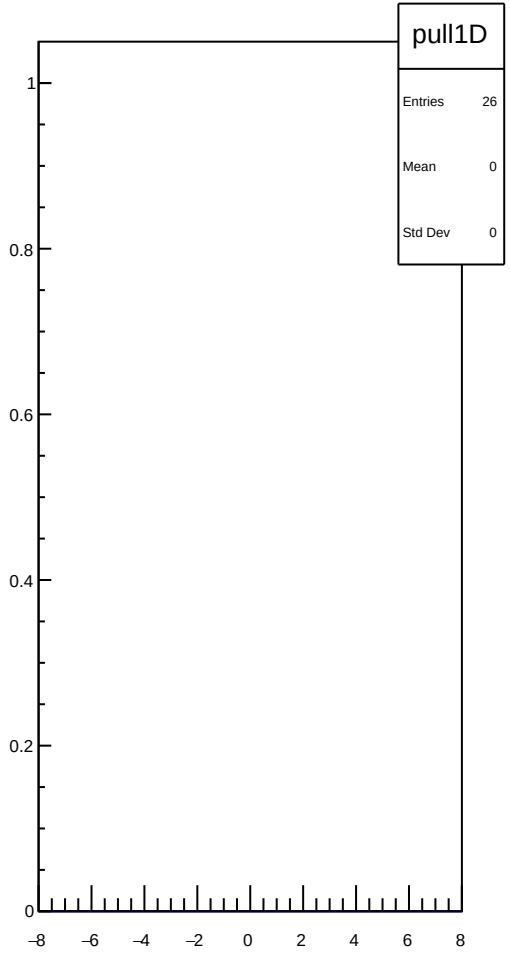

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1610 / 25
p0 29.38 ± 0.0409
33
32
31
30
29
28
27
26
25
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

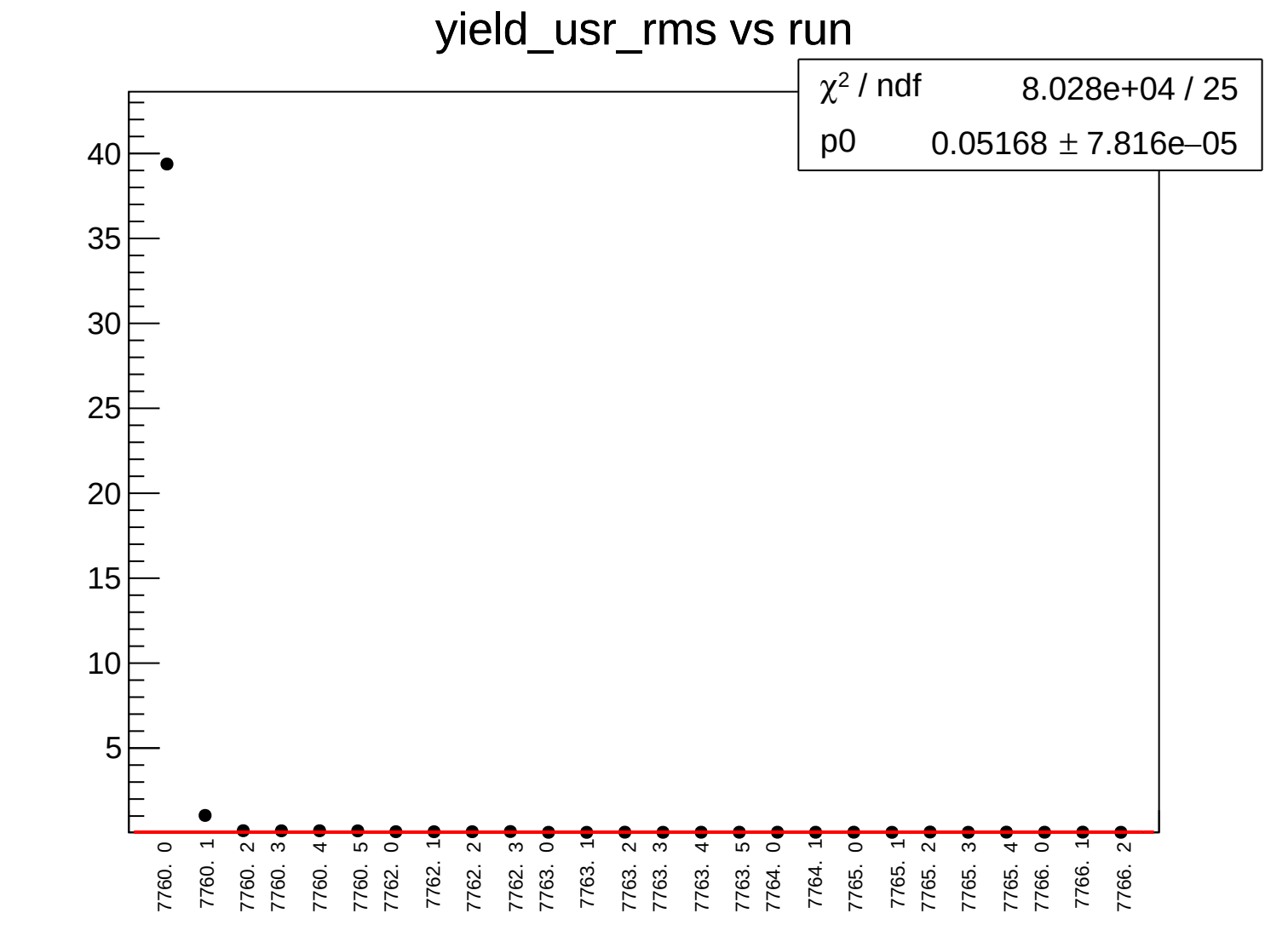

yield_usl_mean vs run
χ² / ndf 1.112e+06 / 25
p0 34.36 ± 0.0002924
35.4
35.2
35
34.8
34.6
34.4
34.2
34
33.8
33.6
33.4
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −111.6
Std Dev 122.4
600
400
200
0
−200
−400
−600

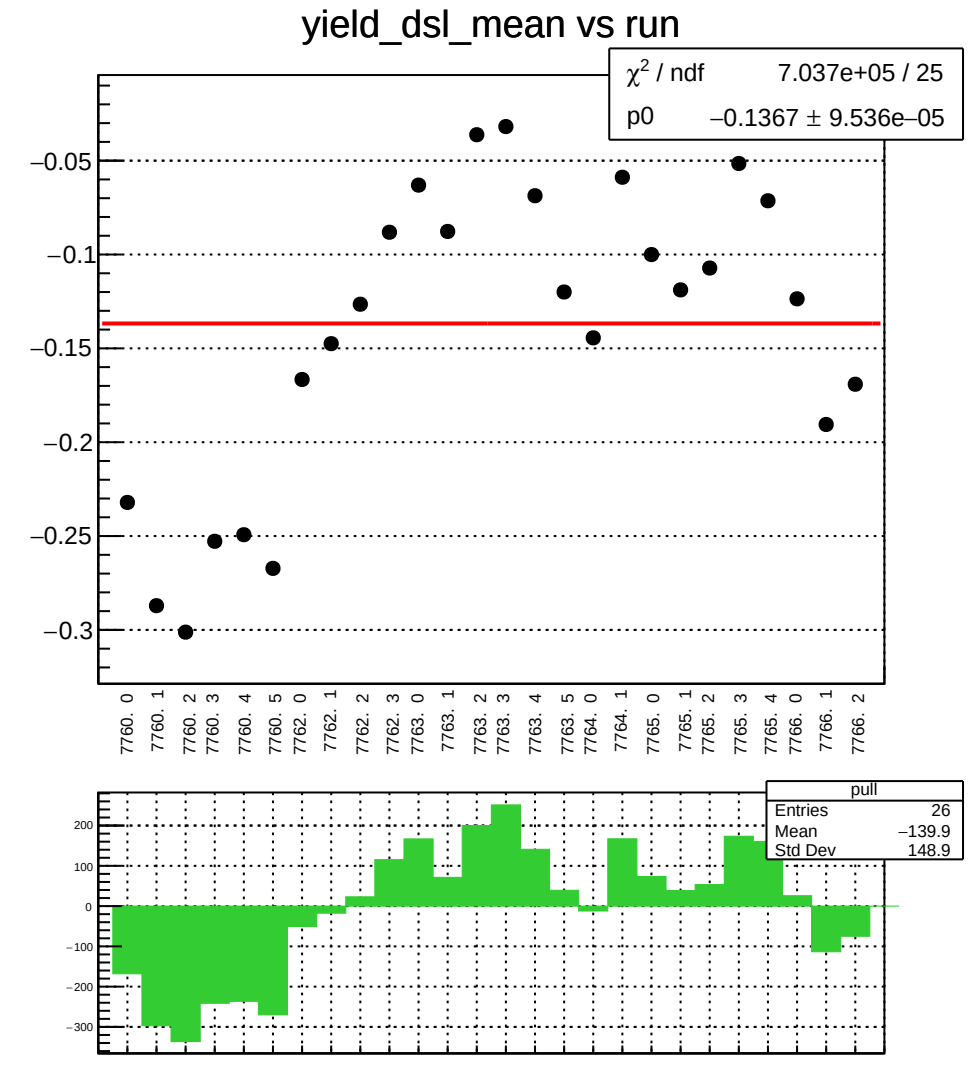

pull1D
Entries 26
Mean −2.507
Std Dev 1.9
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

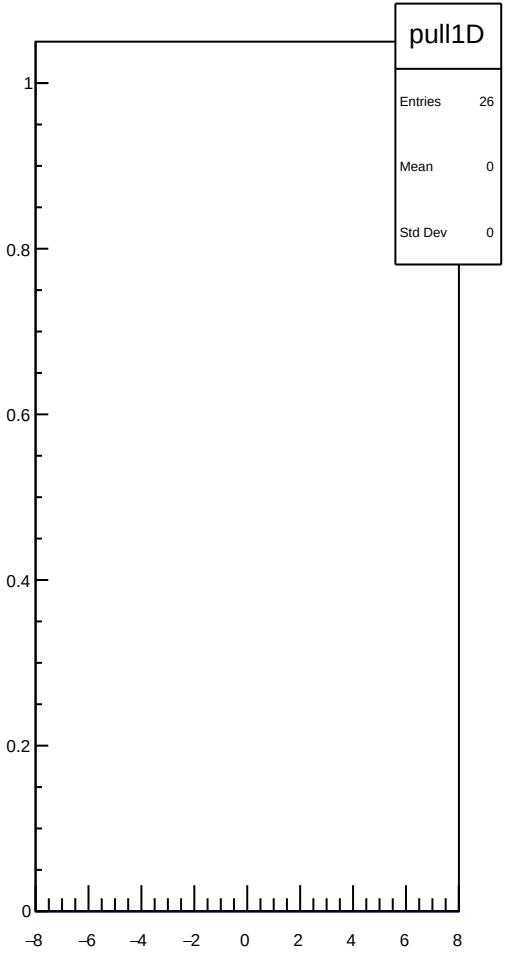

yield_usl_rms vs run
χ² / ndf 3.936e+04 / 25
p0 0.143 ± 0.0002067
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

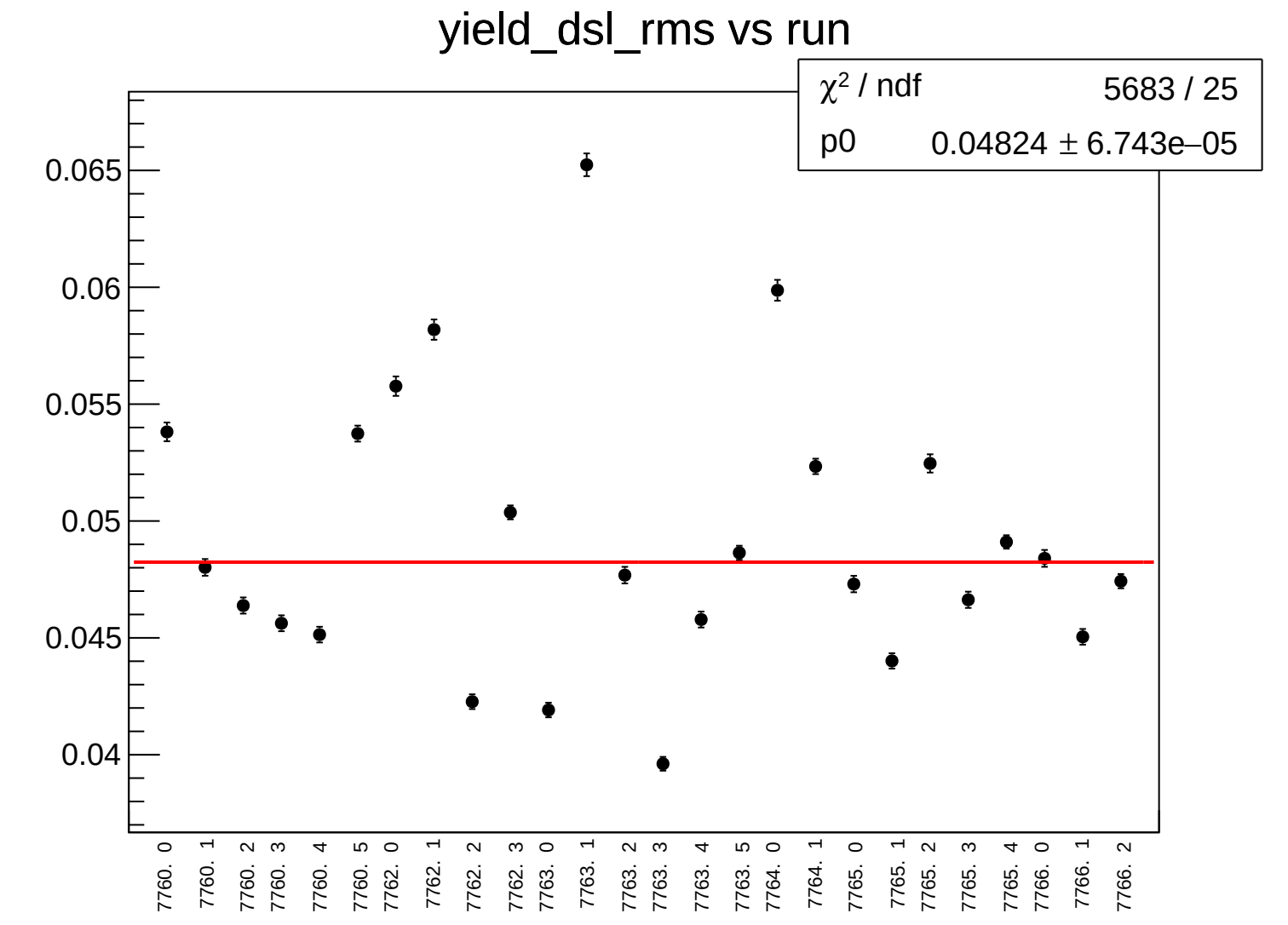

yield_usr_mean vs run
χ² / ndf 1.694e+06 / 25
p0 −10.21± 0.0001105
40
30
20
10
0
−10
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −1.02
Std Dev 9.142
600
500
400
300
200
100
0
−100
−200

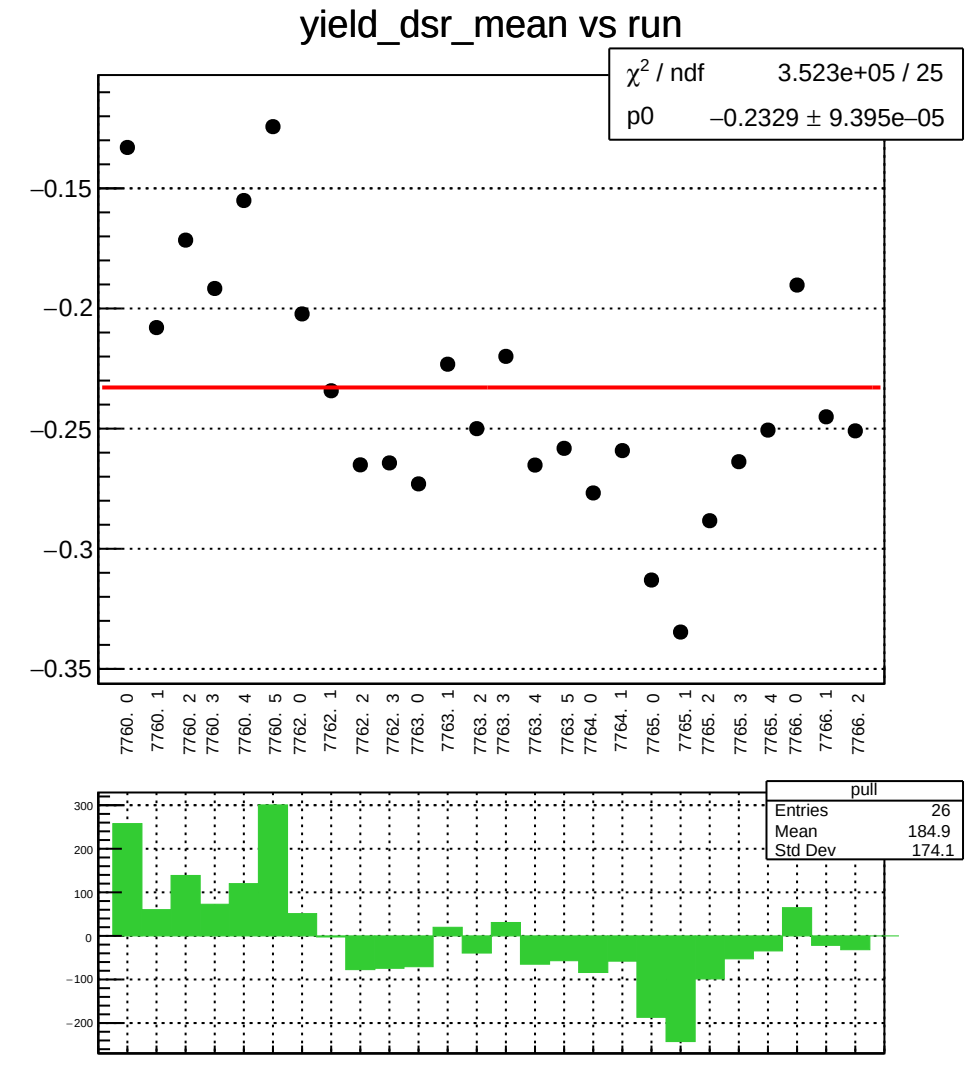

pull1D
Entries 26
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

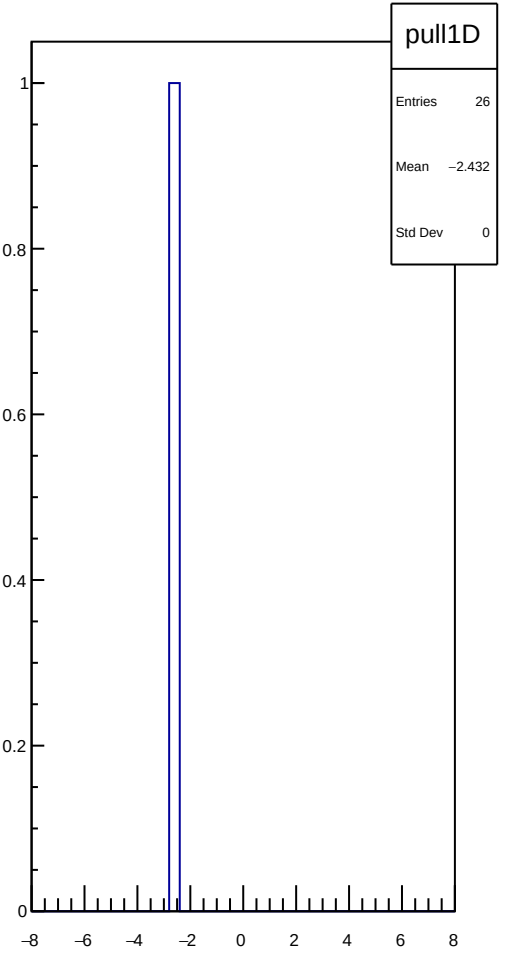

yield_usr_rms vs run
χ² / ndf 8.028e+04 / 25
p0 0.05168 ± 7.816e–05
40
35
30
25
20
15
10
5
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

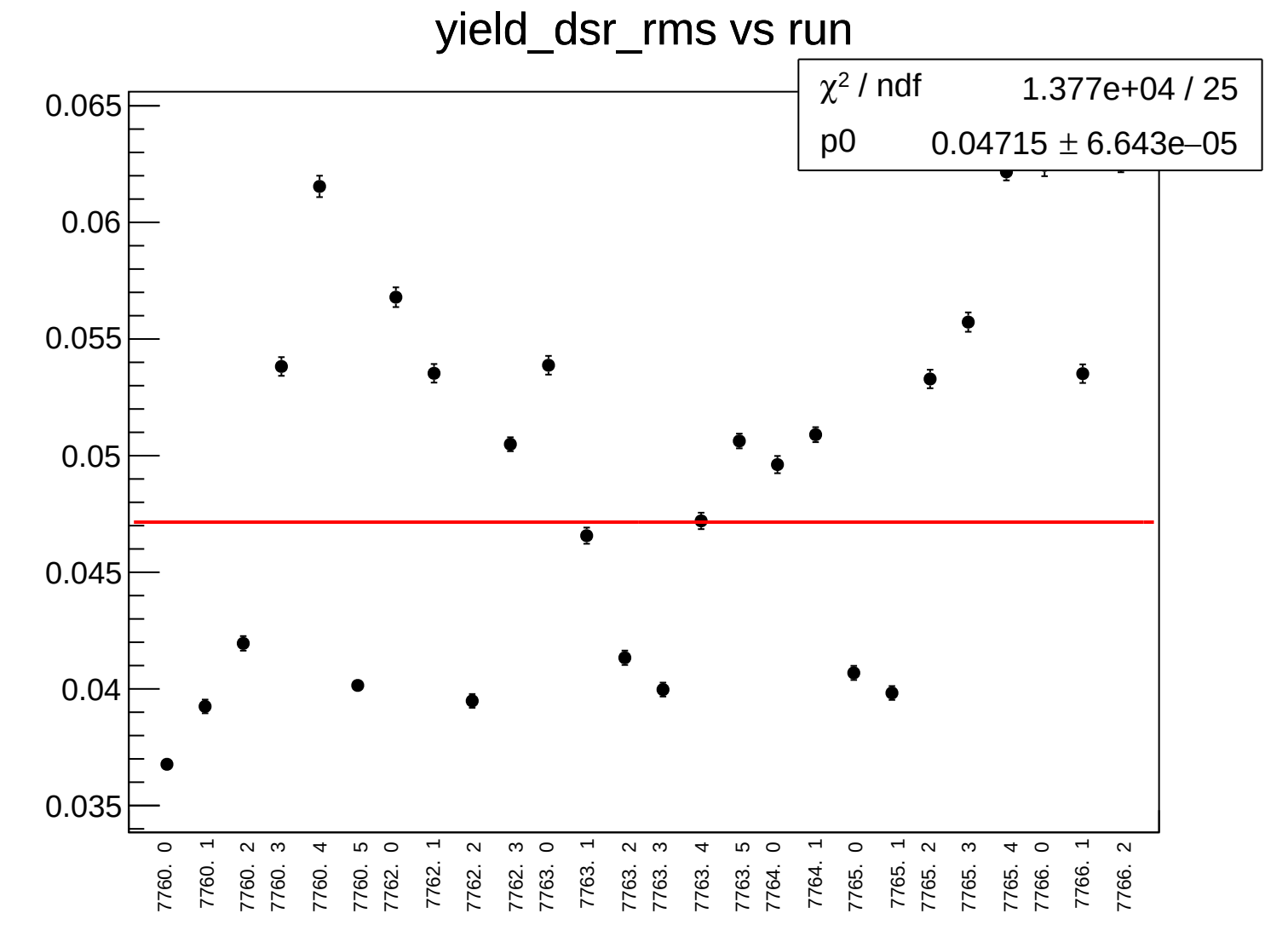

yield_dsl_mean vs run
χ² / ndf 7.037e+05 / 25
p0 −0.1367 ± 9.536e−05
−0.05
−0.1
−0.15
−0.2
−0.25
−0.3
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −139.9
Std Dev 148.9
200
100
0
−100
−200
−300

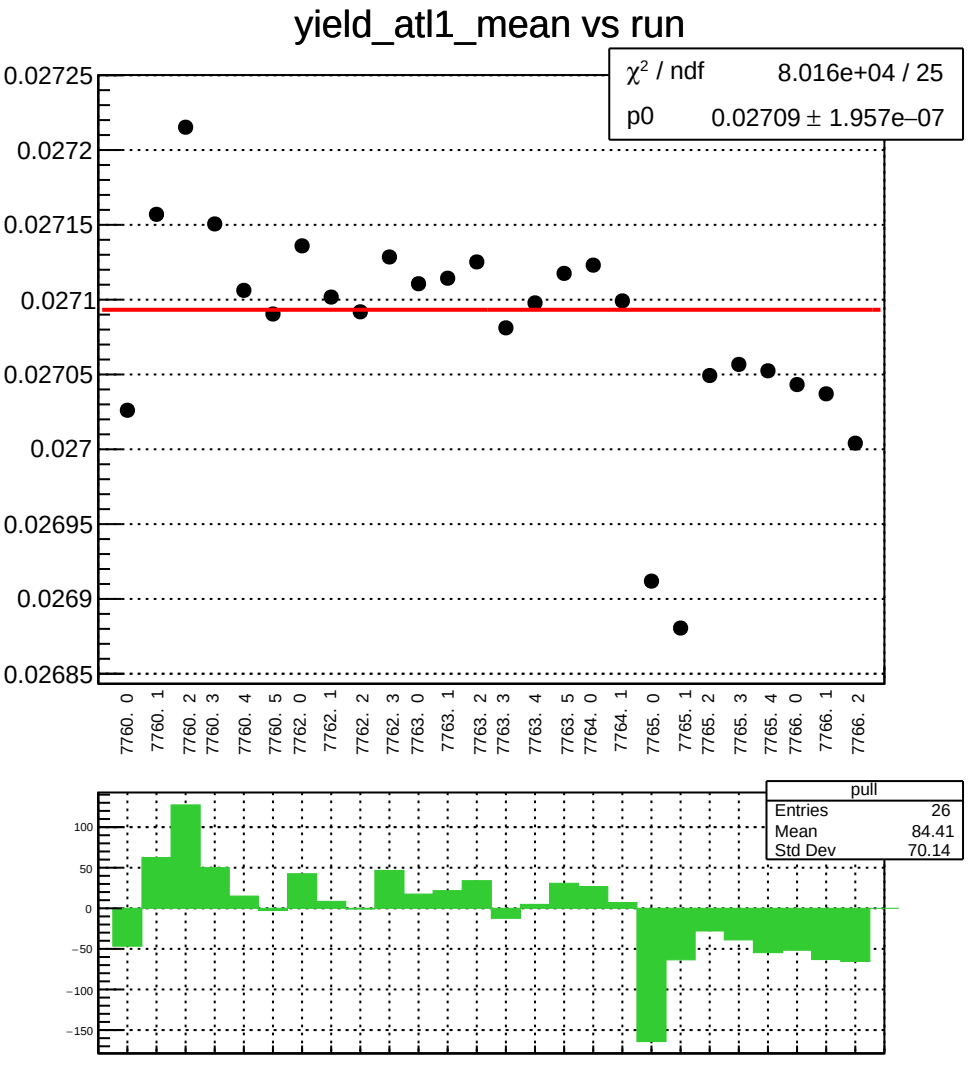

pull1D
Entries 26
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

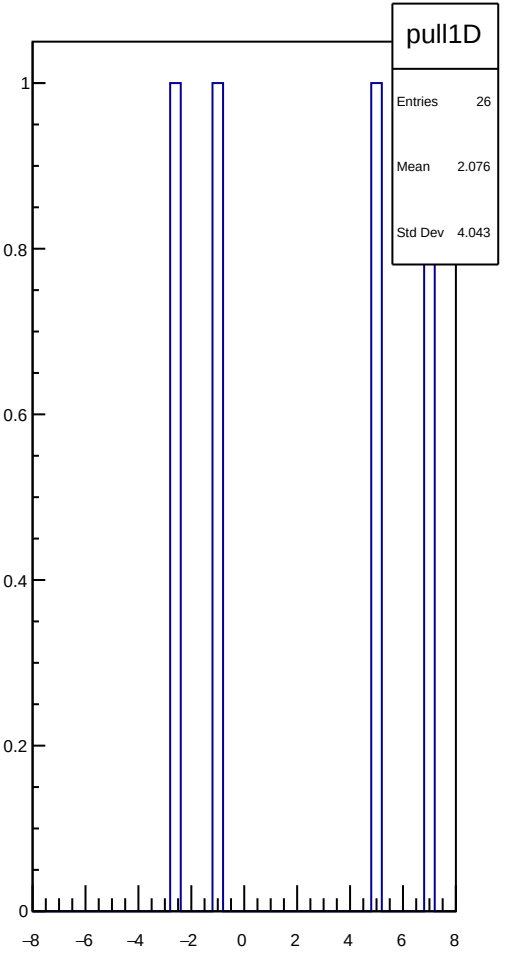

yield_dsl_rms vs run
χ² / ndf 5683 / 25
p0 0.04824 ± 6.743e−05
0.065
0.06
0.055
0.05
0.045
0.04
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

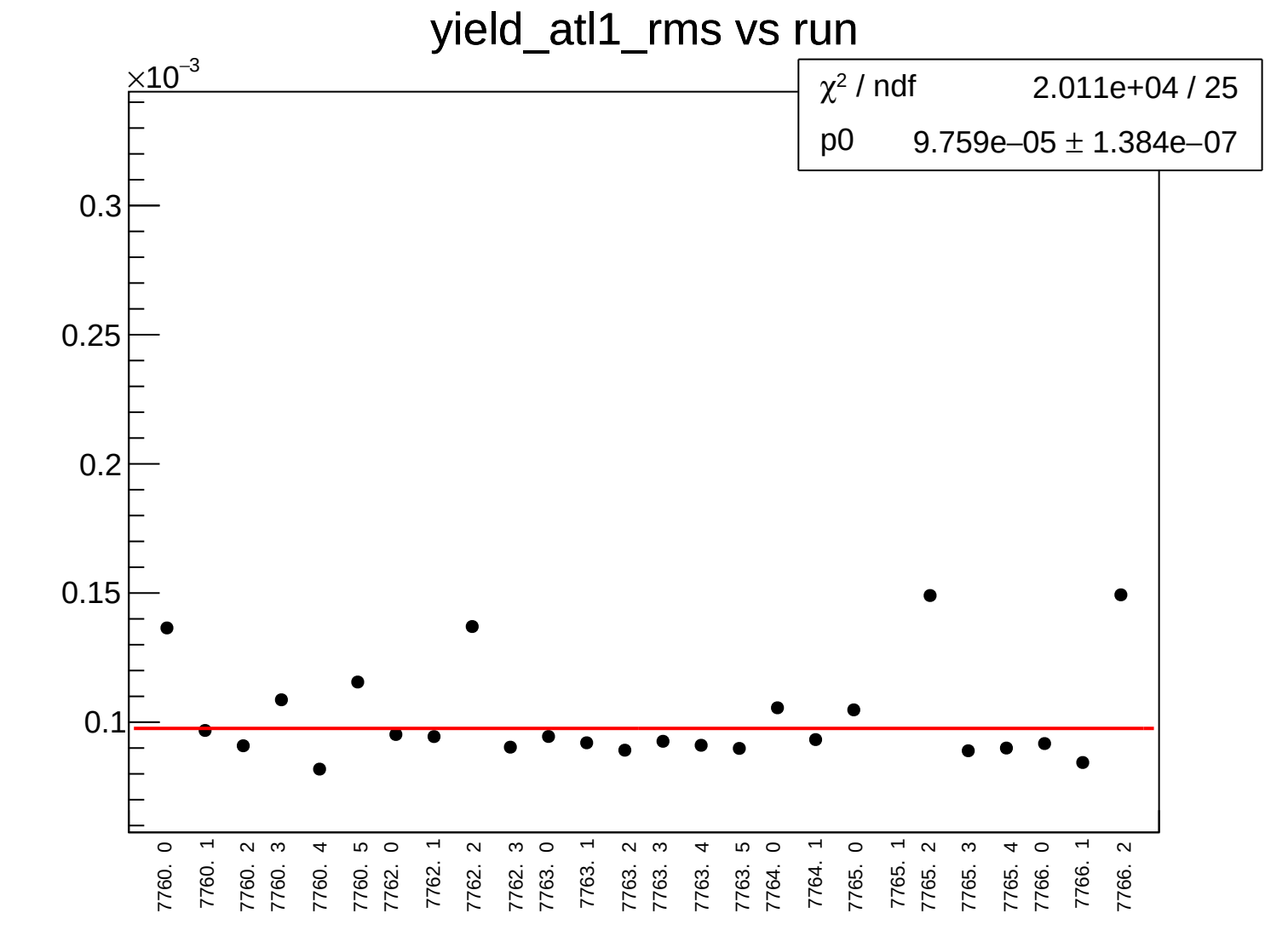

yield_dsr_mean vs run
χ² / ndf 3.523e+05 / 25
p0 −0.2329 ± 9.395e−05
−0.15
−0.2
−0.25
−0.3
−0.35
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 184.9
Std Dev 174.1
300
200
100
0
−100
−200

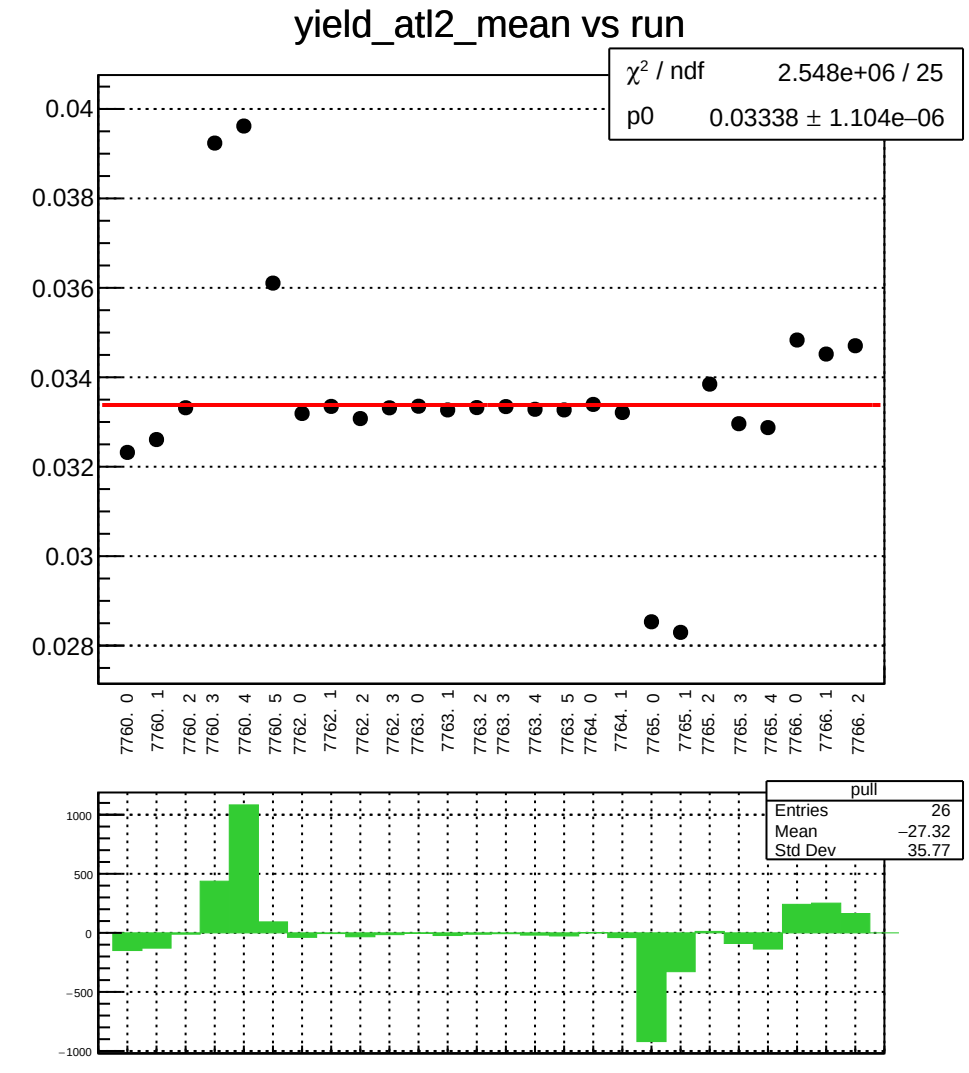

pull1D
Entries 26
Mean −2.432
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

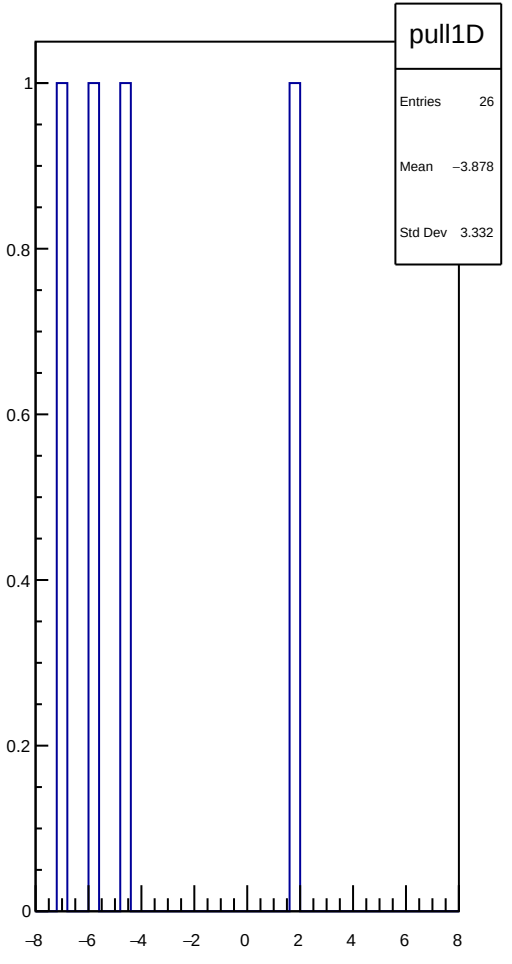

yield_dsr_rms vs run
χ² / ndf 1.377e+04 / 25
p0 0.04715 ± 6.643e−05
0.065
0.06
0.055
0.05
0.045
0.04
0.035
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

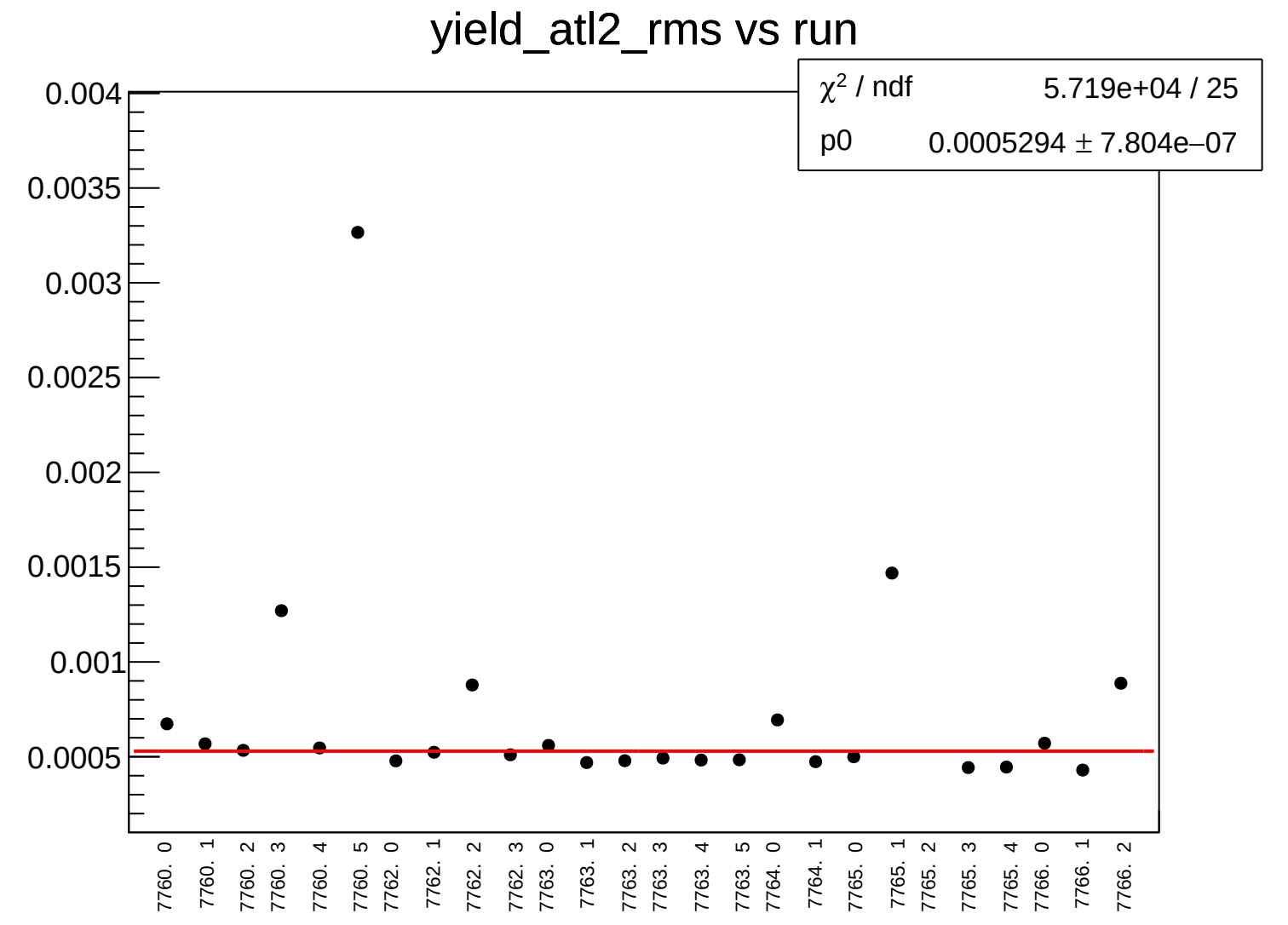

yield_atl1_mean vs run
χ² / ndf 8.016e+04 / 25
p0 0.02709 ± 1.957e−07
0.02725
0.0272
0.02715
0.0271
0.02705
0.027
0.02695
0.0269
0.02685
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 84.41
Std Dev 70.14
100
50
0
−50
−100
−150

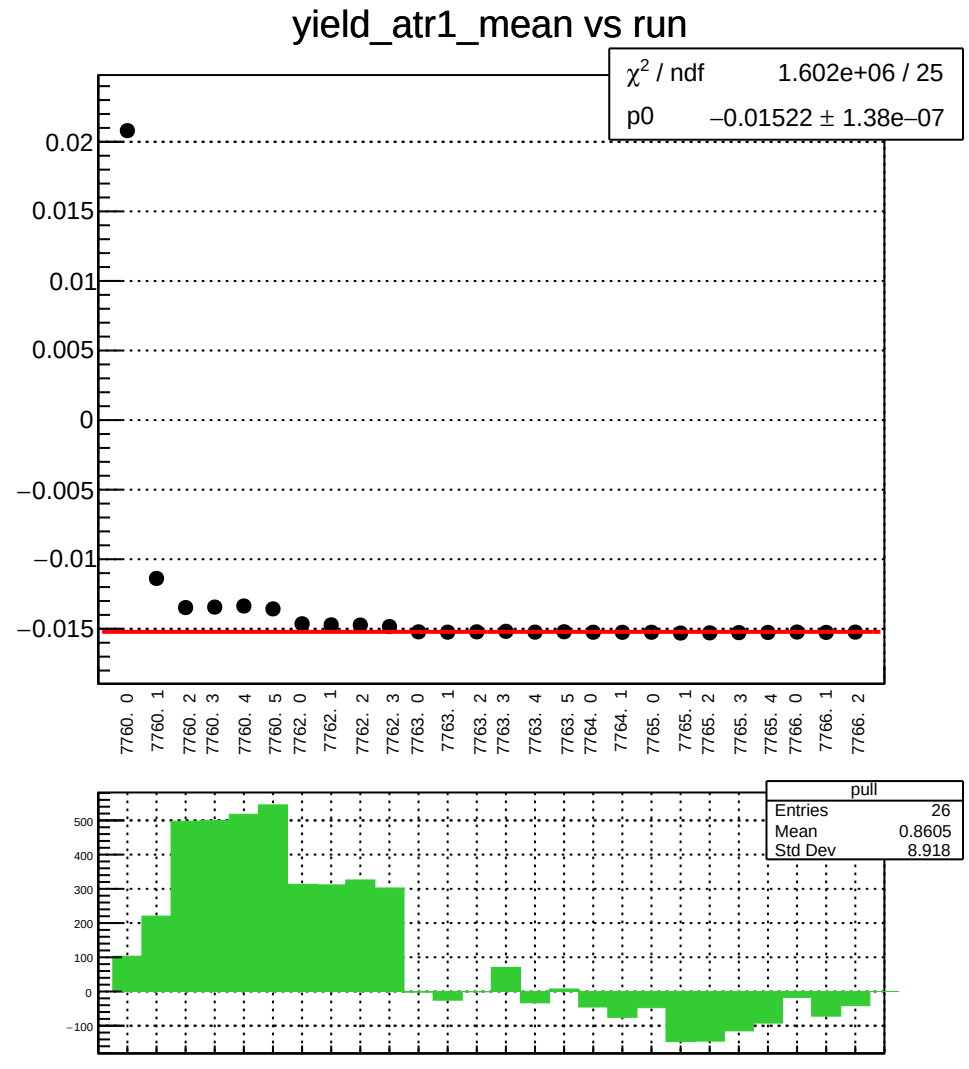

pull1D
Entries 26
Mean 2.076
Std Dev 4.043
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

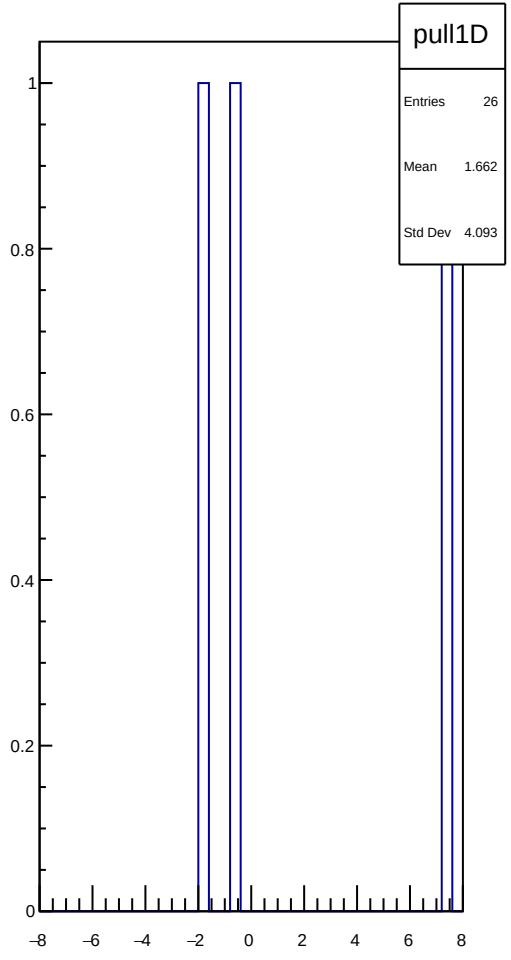

yield_atl1_rms vs run
×10⁻³
χ² / ndf 2.011e+04 / 25
p0 9.759e−05 ± 1.384e−07
0.3
0.25
0.2
0.15
0.1
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

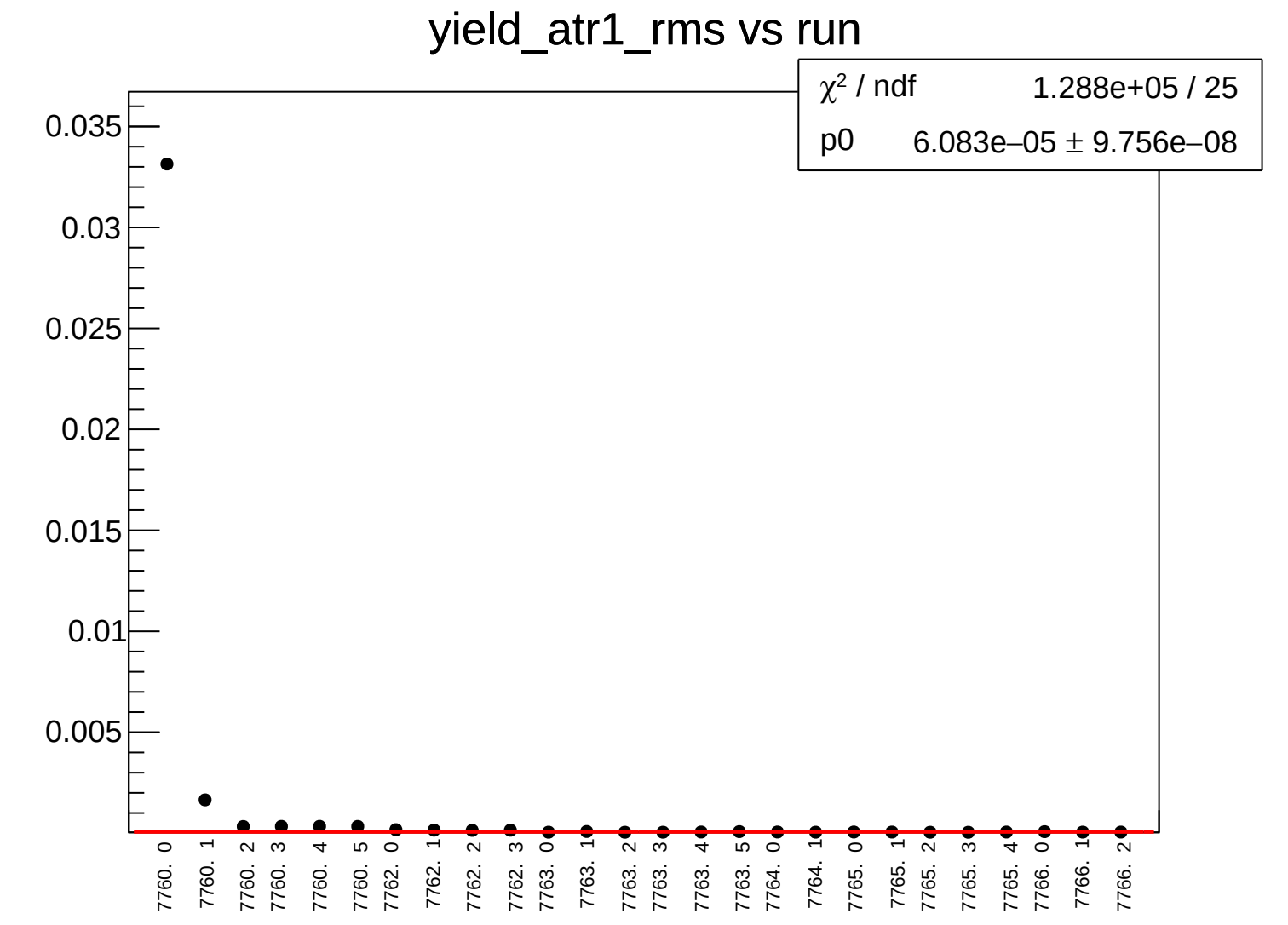

yield_atl2_mean vs run
χ² / ndf 2.548e+06 / 25
p0 0.03338 ± 1.104e−06
0.04
0.038
0.036
0.034
0.032
0.03
0.028
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −27.32
Std Dev 35.77
1000
500
0
−500
−1000

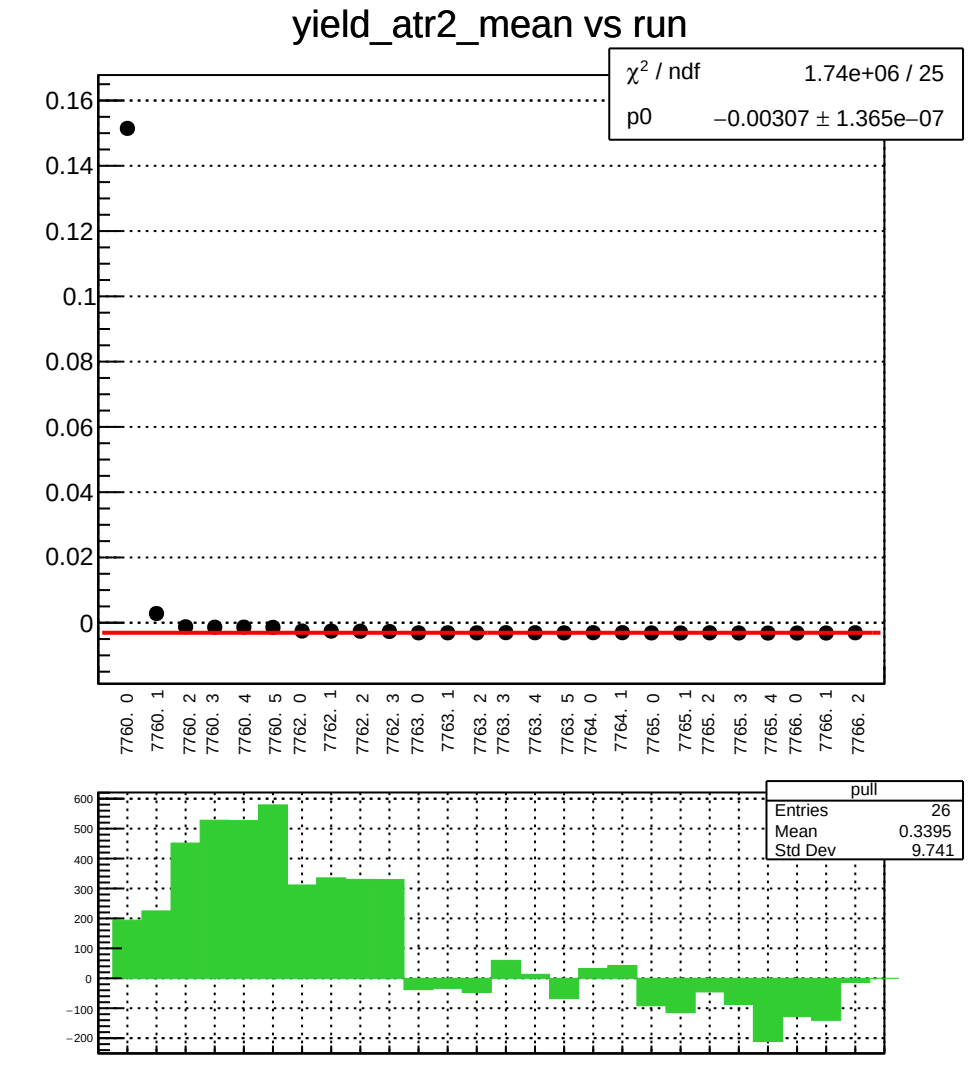

pull1D
Entries 26
Mean −3.878
Std Dev 3.332
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

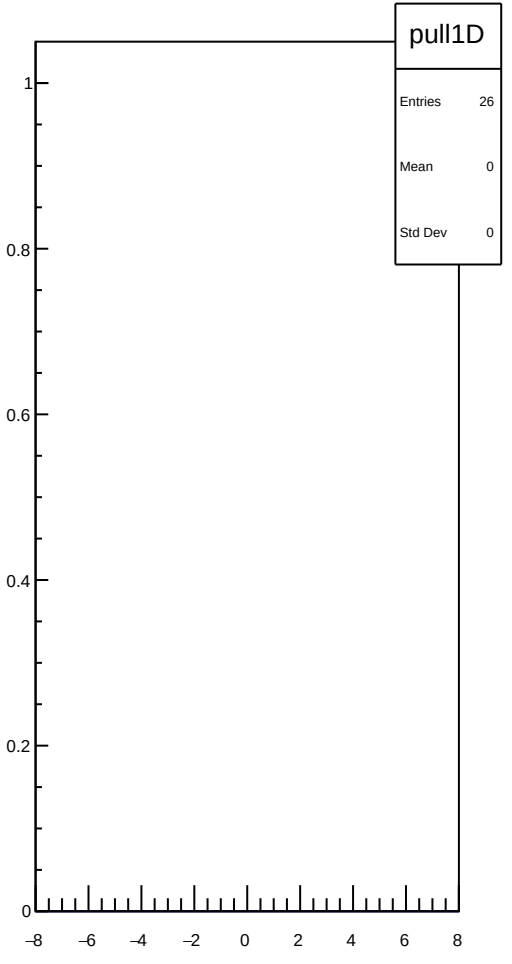

yield_atl2_rms vs run
χ² / ndf 5.719e+04 / 25
p0 0.0005294 ± 7.804e−07
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

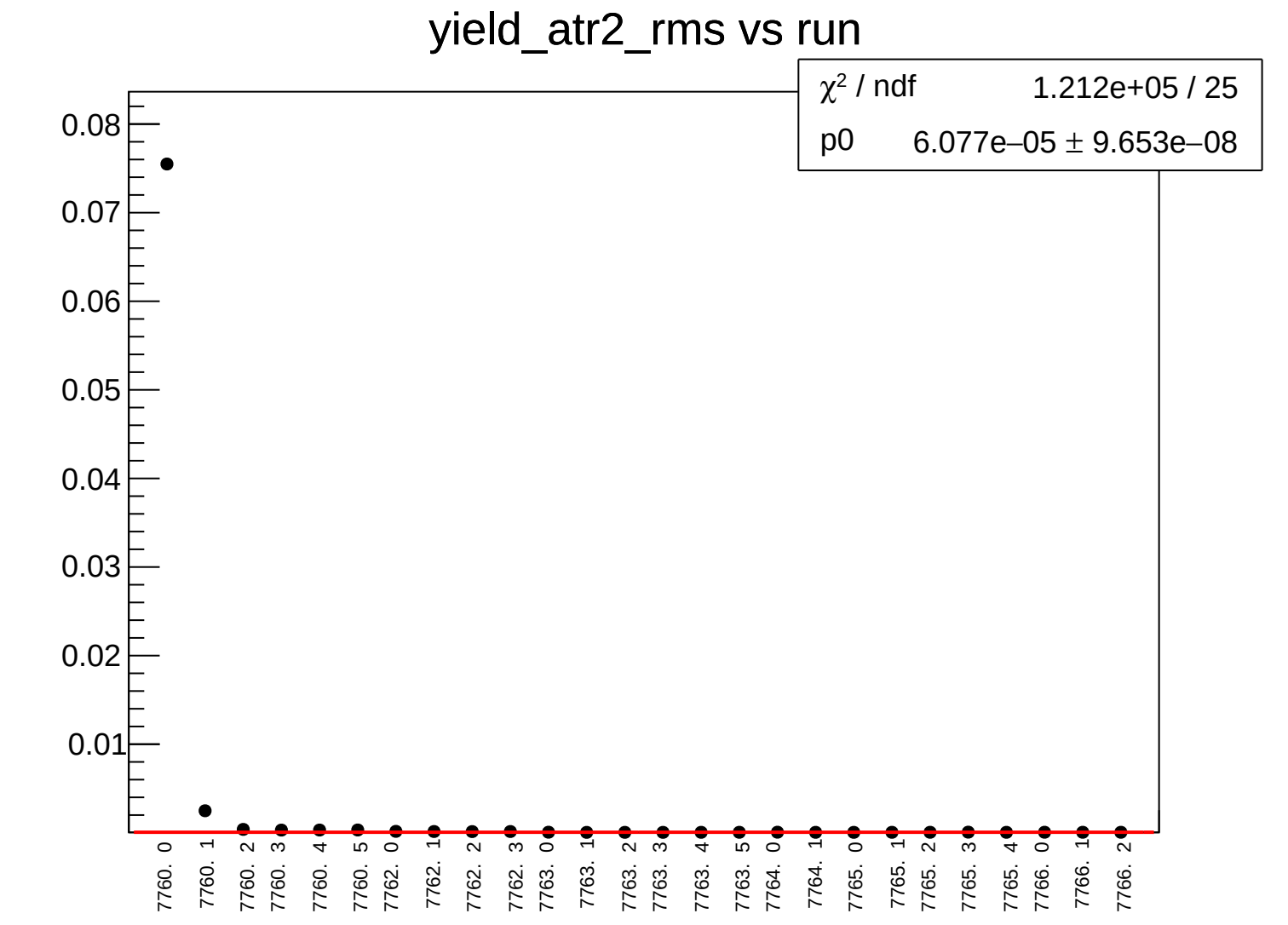

yield_atr1_mean vs run
χ² / ndf 1.602e+06 / 25
p0 −0.01522 ± 1.38e−07
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 0.8605
Std Dev 8.918
500
400
300
200
100
0
−100

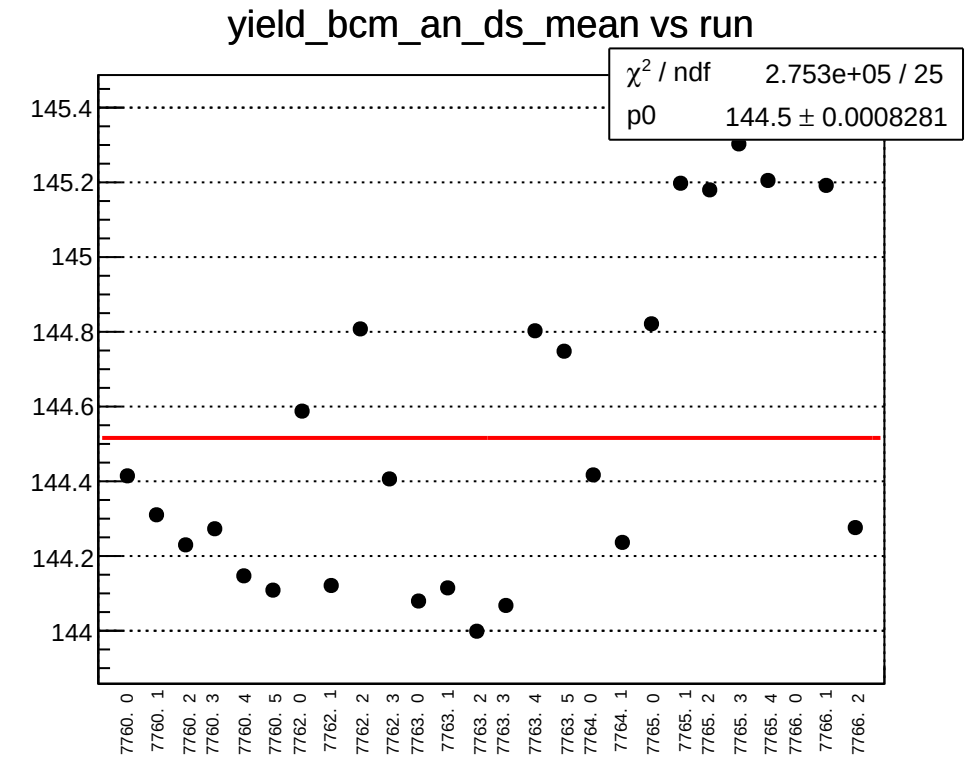

pull1D
Entries 26
Mean 1.662
Std Dev 4.093
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

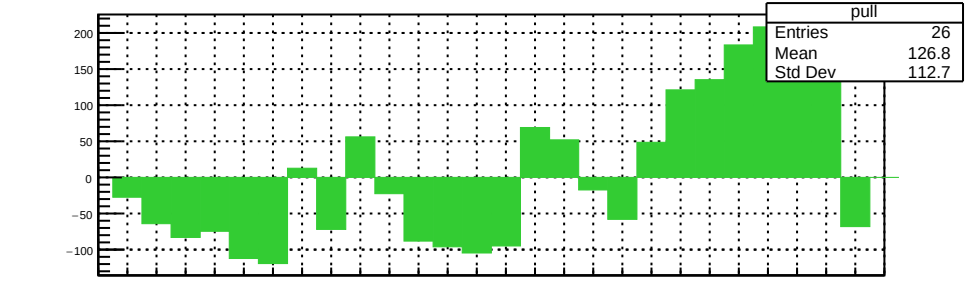

yield_atr1_rms vs run
χ² / ndf 1.288e+05 / 25
p0 6.083e−05 ± 9.756e−08
0.035
0.03
0.025
0.02
0.015
0.01
0.005
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

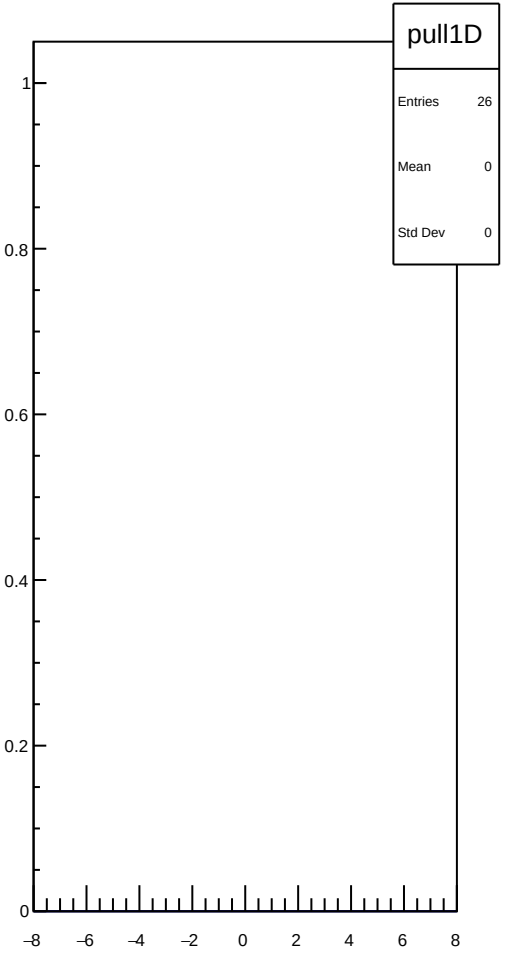

yield_atr2_mean vs run
χ² / ndf 1.74e+06 / 25
p0 −0.00307 ± 1.365e−07
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 0.3395
Std Dev 9.741
600
500
400
300
200
100
0
−100
−200

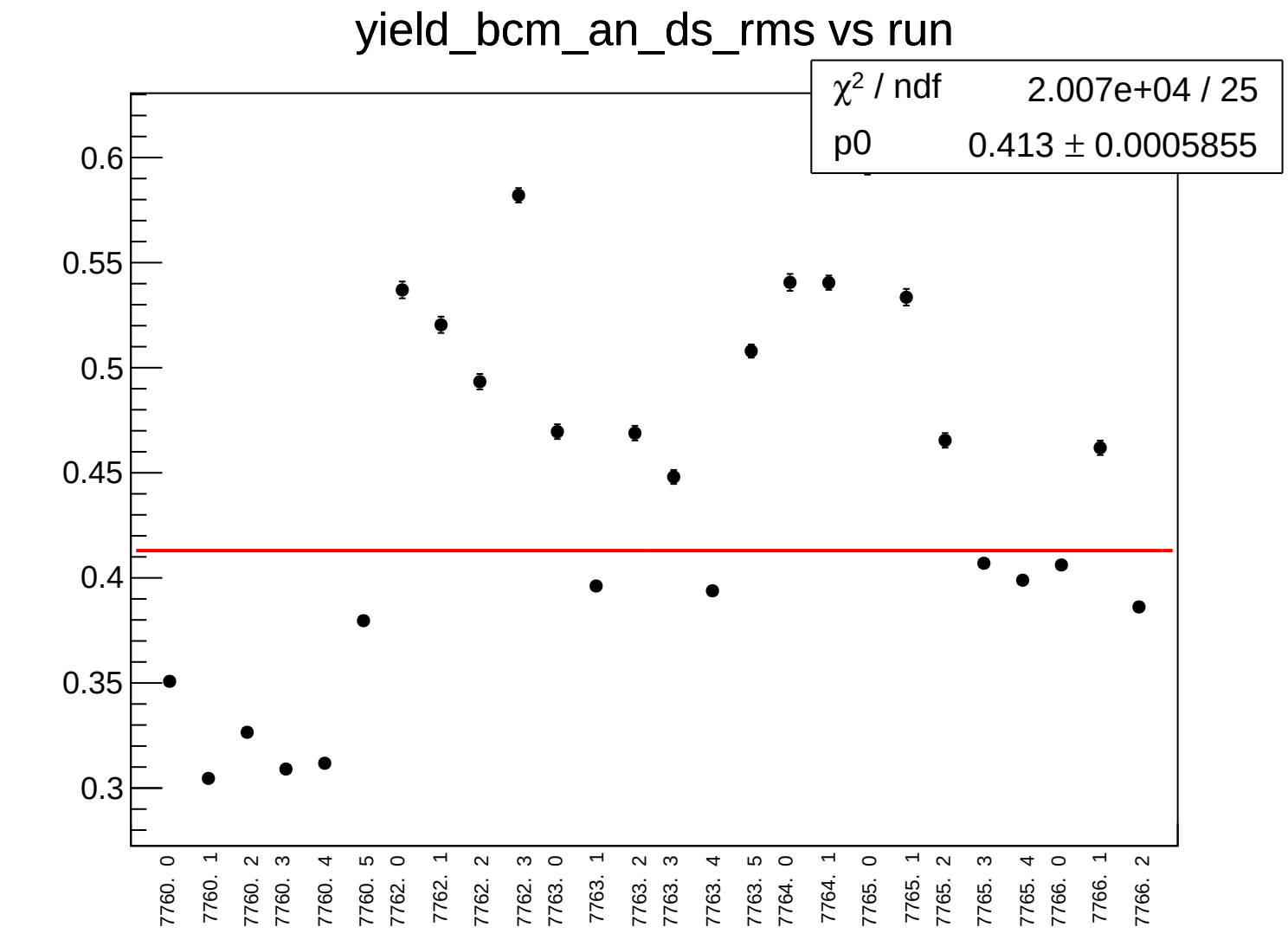

pull1D
Entries 26
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

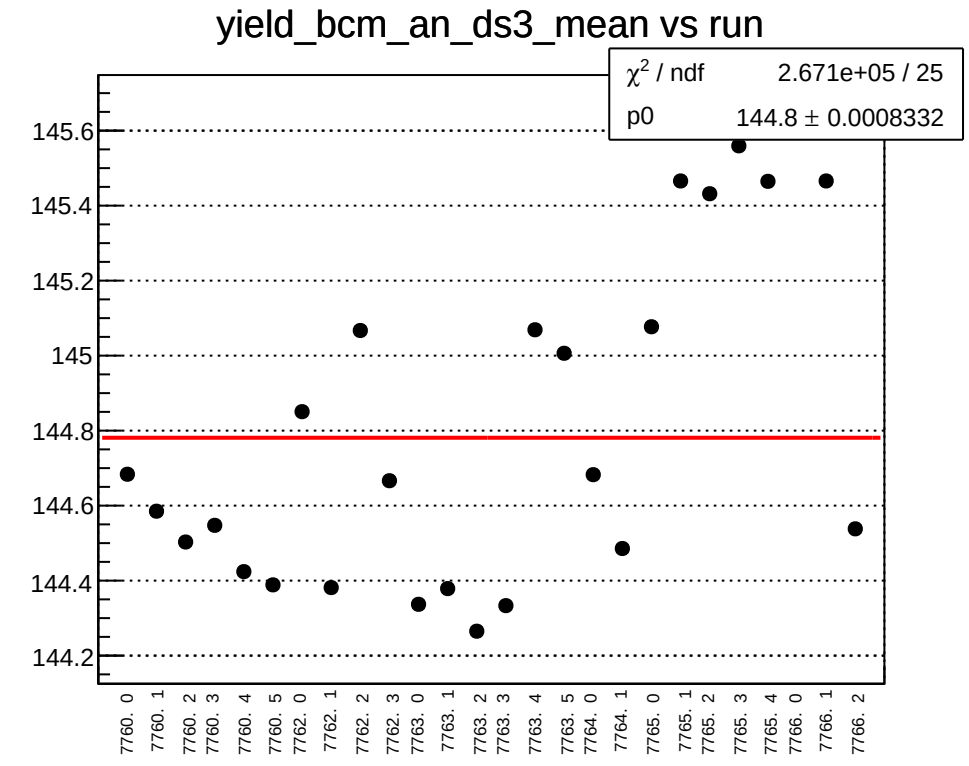

yield_atr2_rms vs run
χ² / ndf 1.212e+05 / 25
p0 6.077e−05 ± 9.653e−08
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

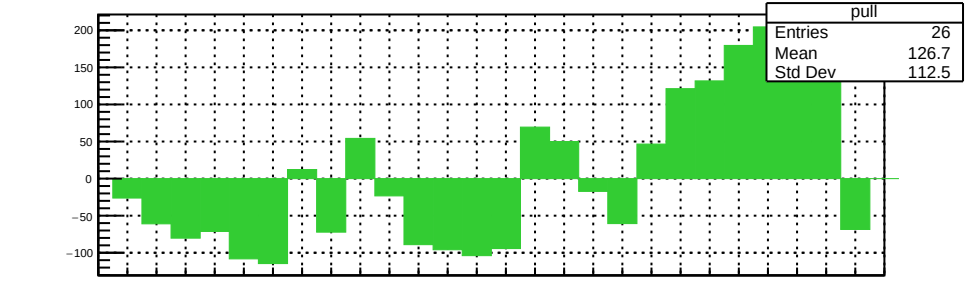

yield_bcm_an_ds_mean vs run
χ² / ndf 2.753e+05 / 25
p0 144.5 ± 0.0008281
145.4
145.2
145
144.8
144.6
144.4
144.2
144
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

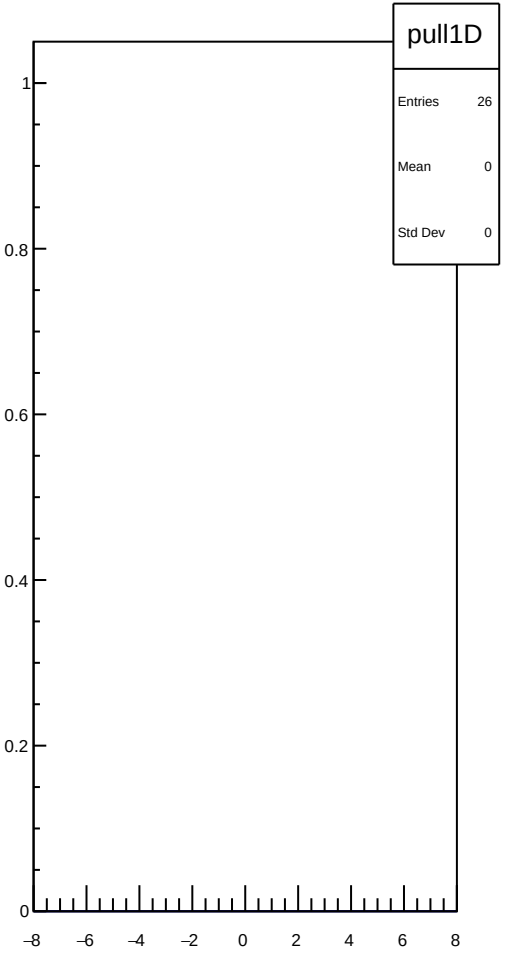

pull
Entries 26
Mean 126.8
Std Dev 112.7
200
150
100
50
0
−50
−100

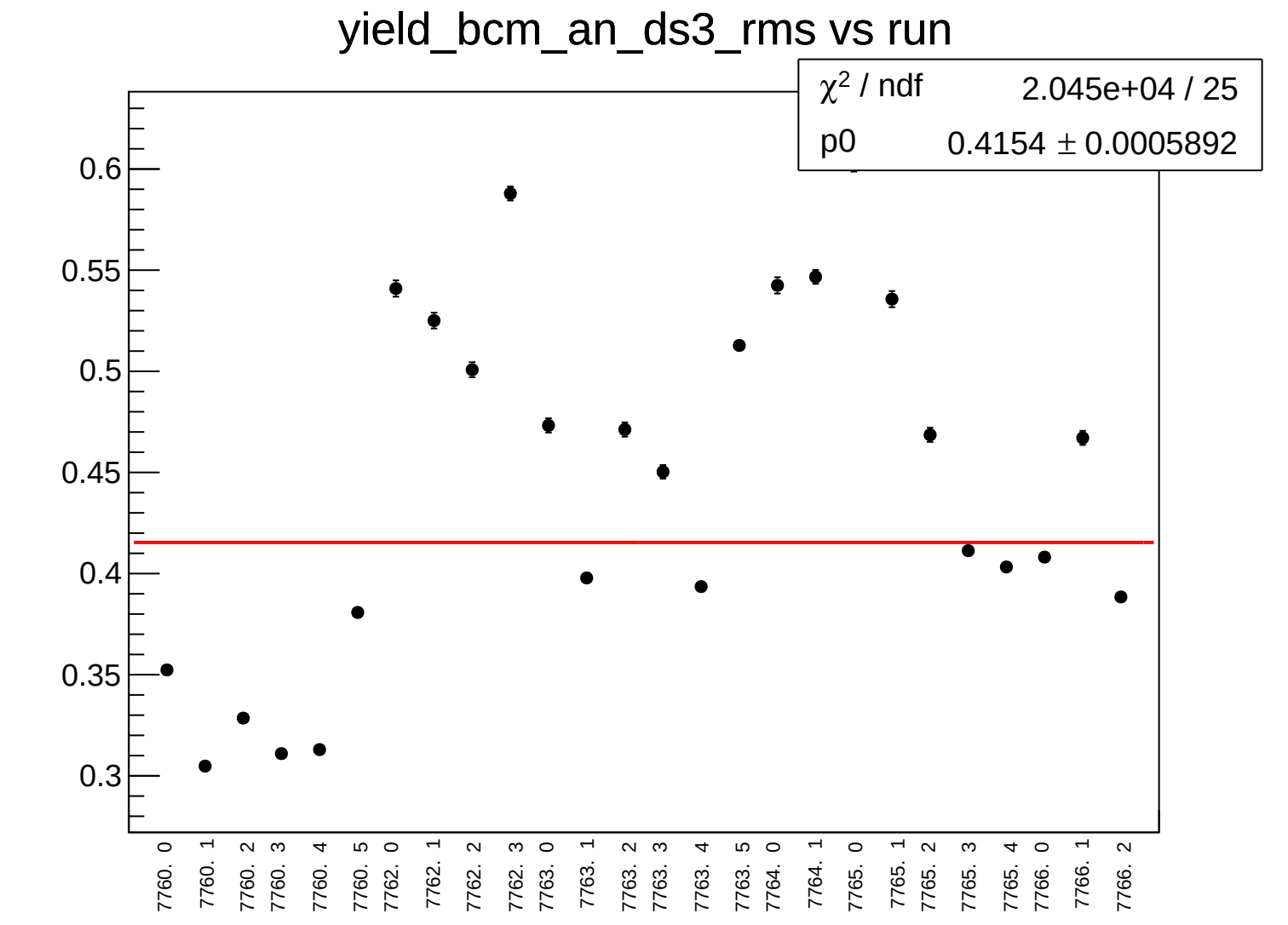

pull1D
Entries 26
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

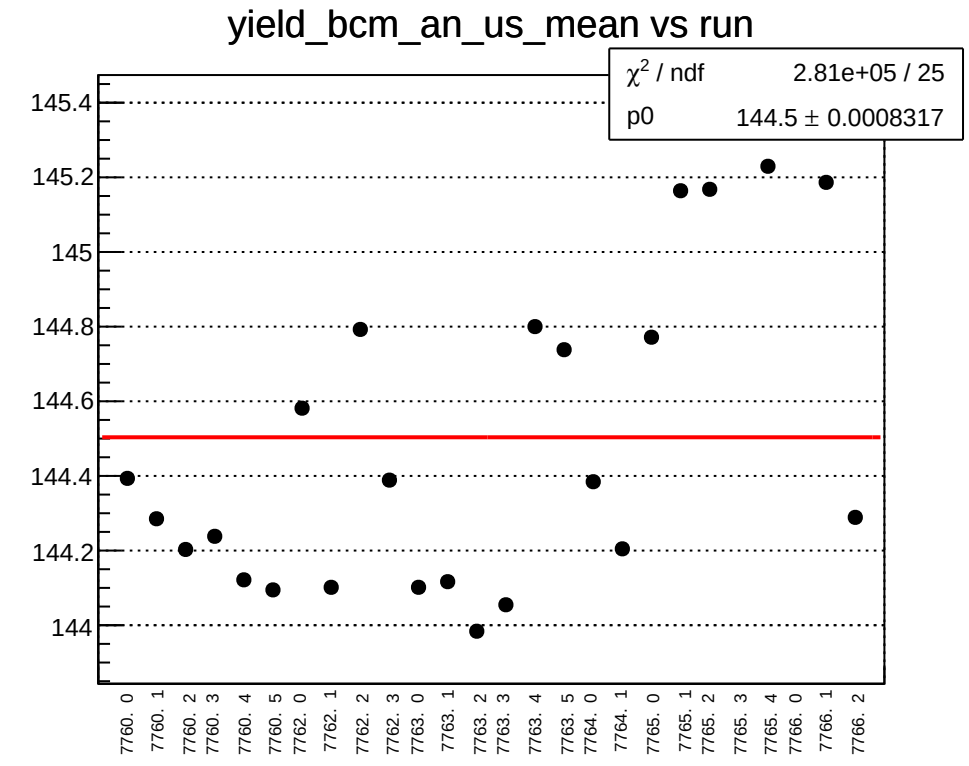

yield_bcm_an_ds_rms vs run
χ² / ndf 2.007e+04 / 25
p0 0.413 ± 0.0005855
0.6
0.55
0.5
0.45
0.4
0.35
0.3
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

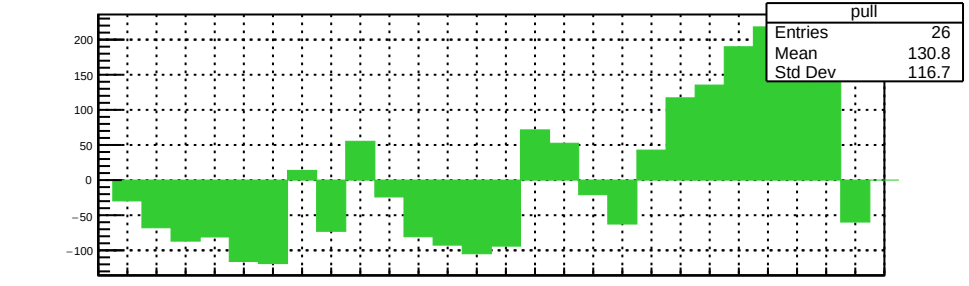

yield_bcm_an_ds3_mean vs run
χ² / ndf 2.671e+05 / 25
p0 144.8 ± 0.0008332
145.6
145.4
145.2
145
144.8
144.6
144.4
144.2
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

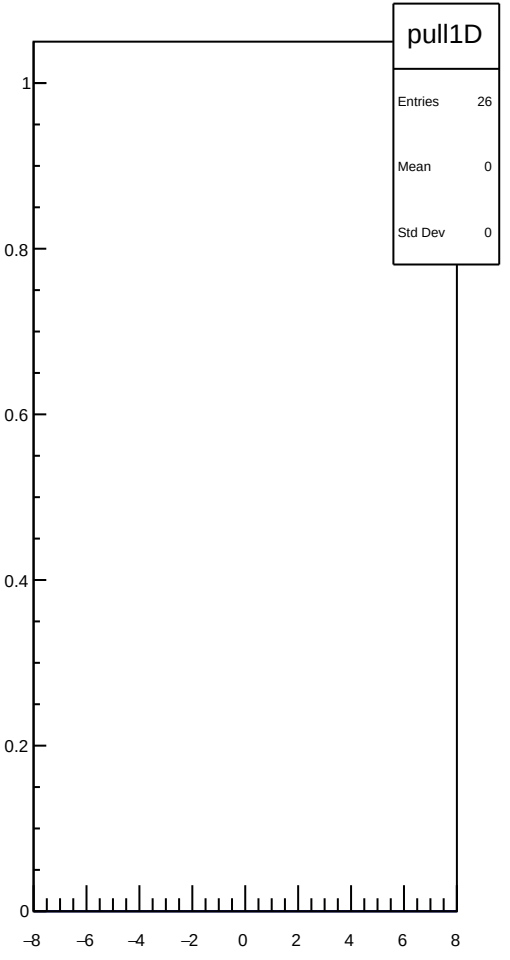

pull
Entries 26
Mean 126.7
Std Dev 112.5
200
150
100
50
0
−50
−100

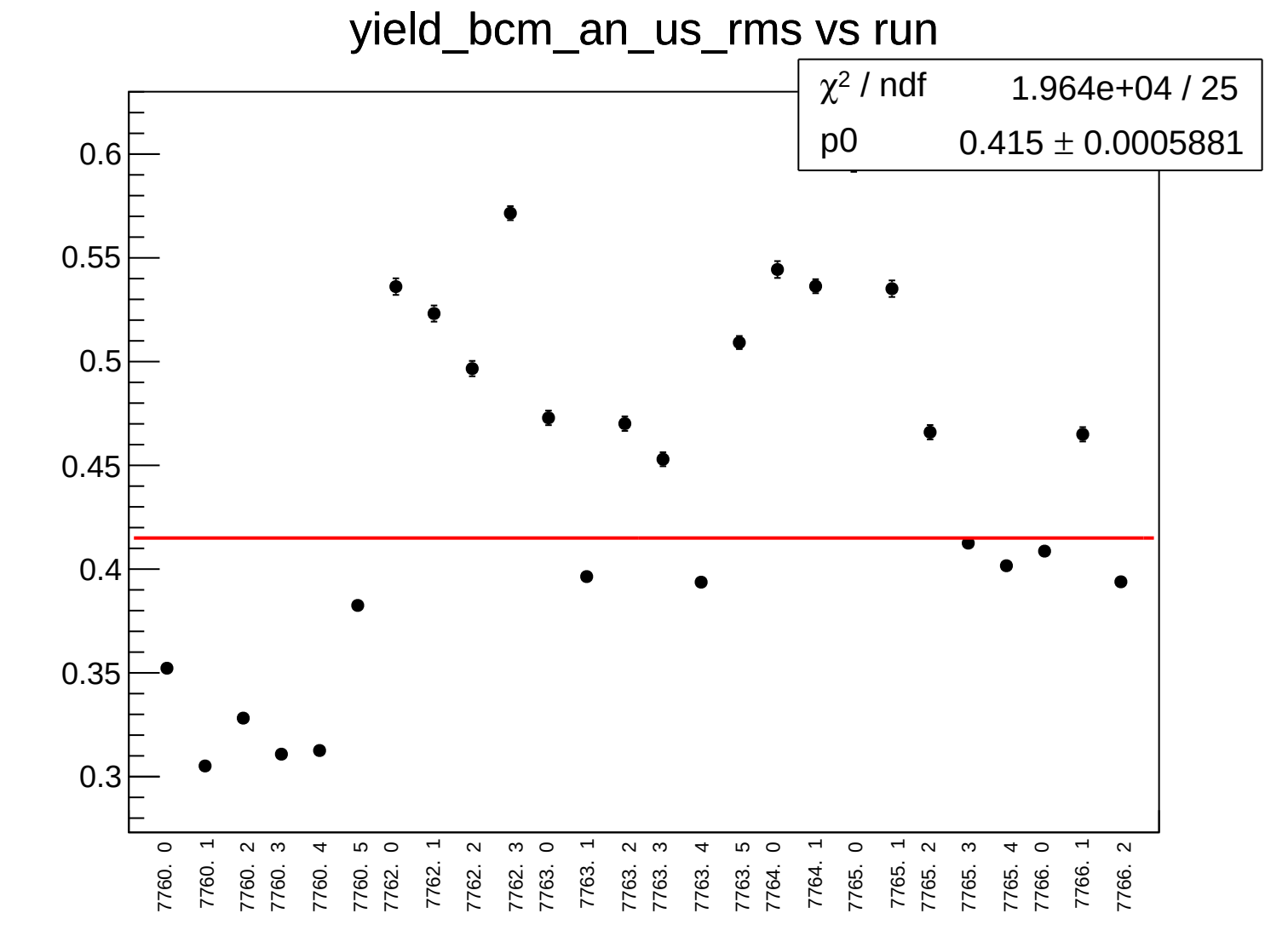

pull1D
Entries 26
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

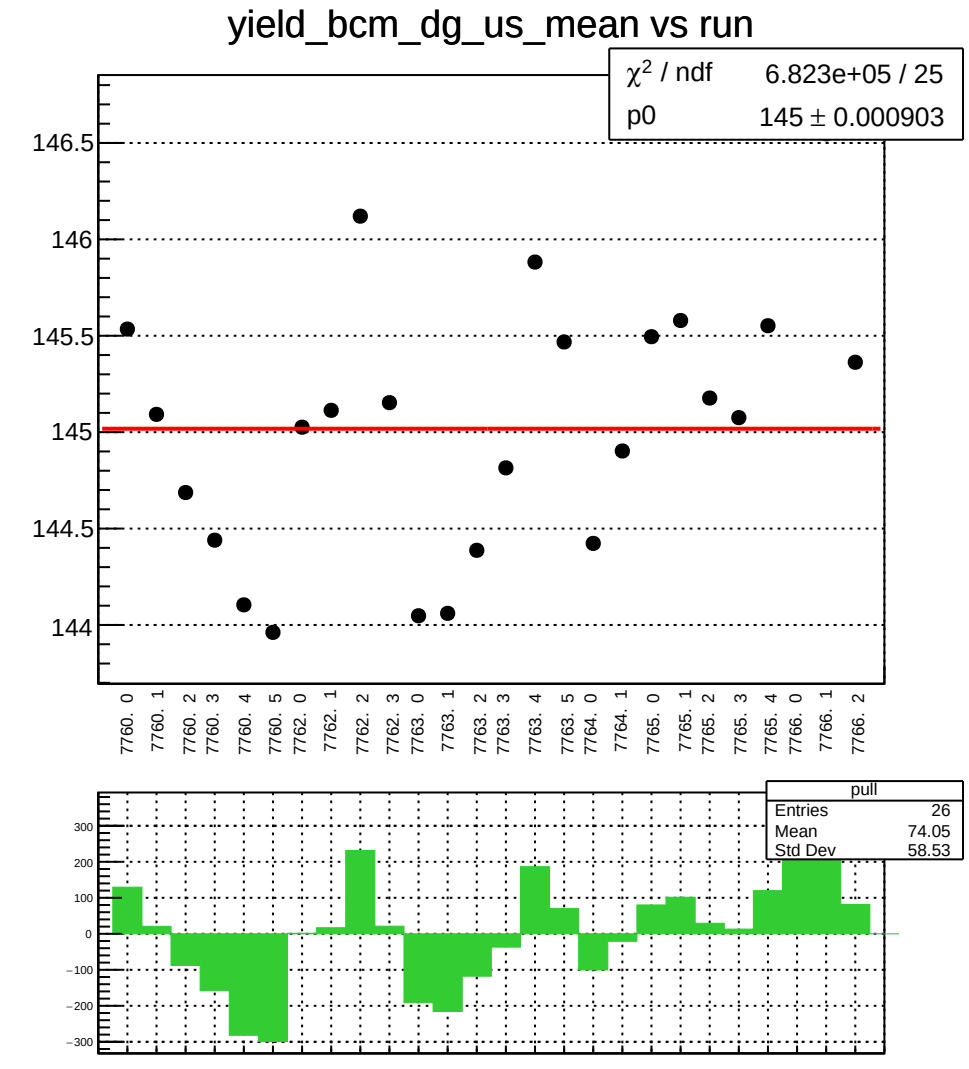

yield_bcm_an_ds3_rms vs run
χ² / ndf 2.045e+04 / 25
p0 0.4154 ± 0.0005892
0.6
0.55
0.5
0.45
0.4
0.35
0.3
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

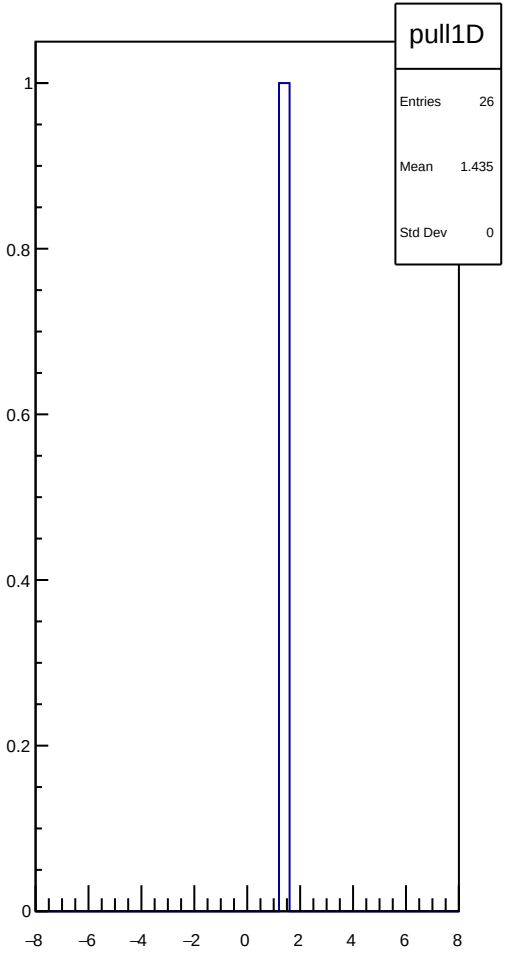

yield_bcm_an_us_mean vs run
χ² / ndf 2.81e+05 / 25
p0 144.5 ± 0.0008317
145.4
145.2
145
144.8
144.6
144.4
144.2
144
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

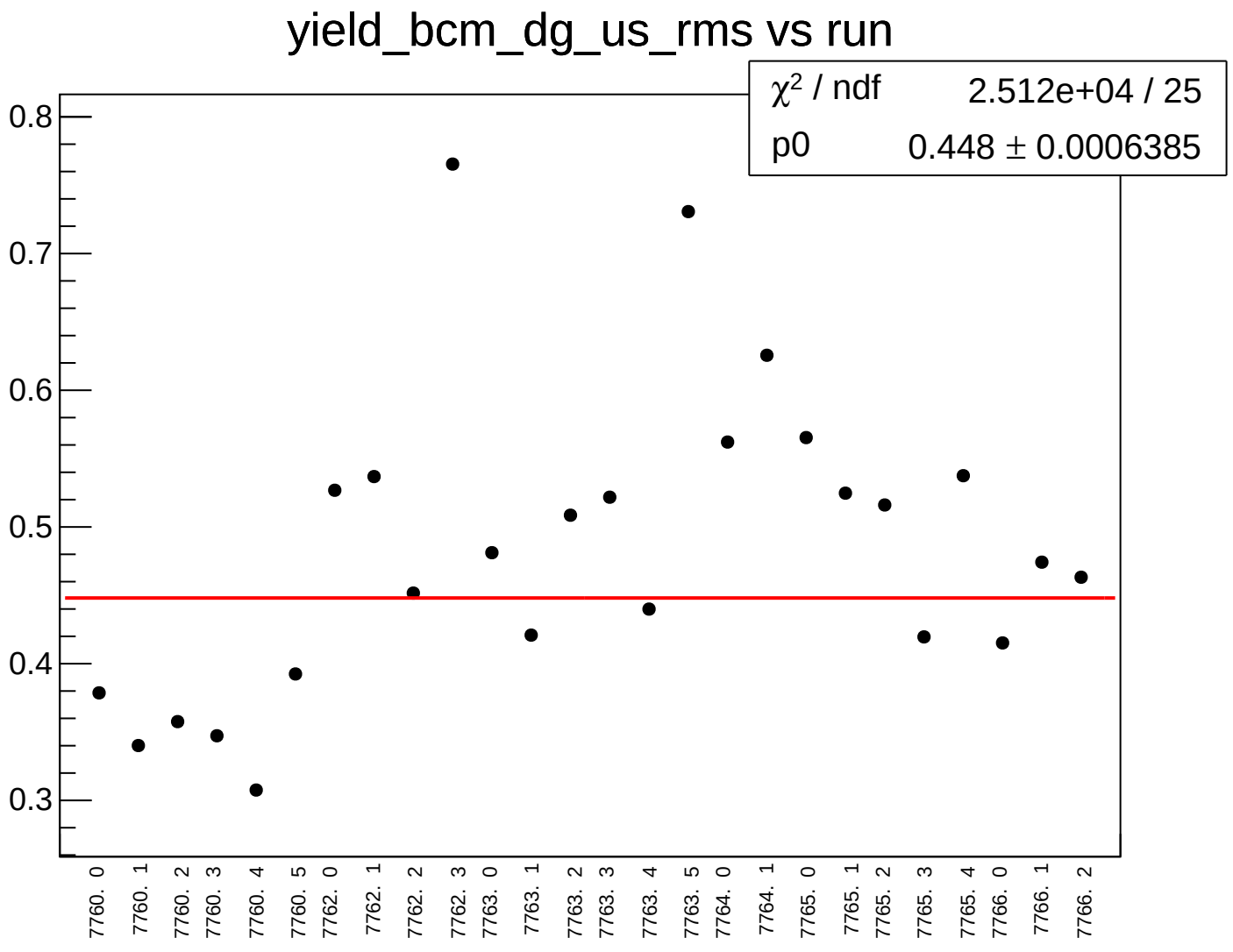

pull
Entries 26
Mean 130.8
Std Dev 116.7
200
150
100
50
0
−50
−100

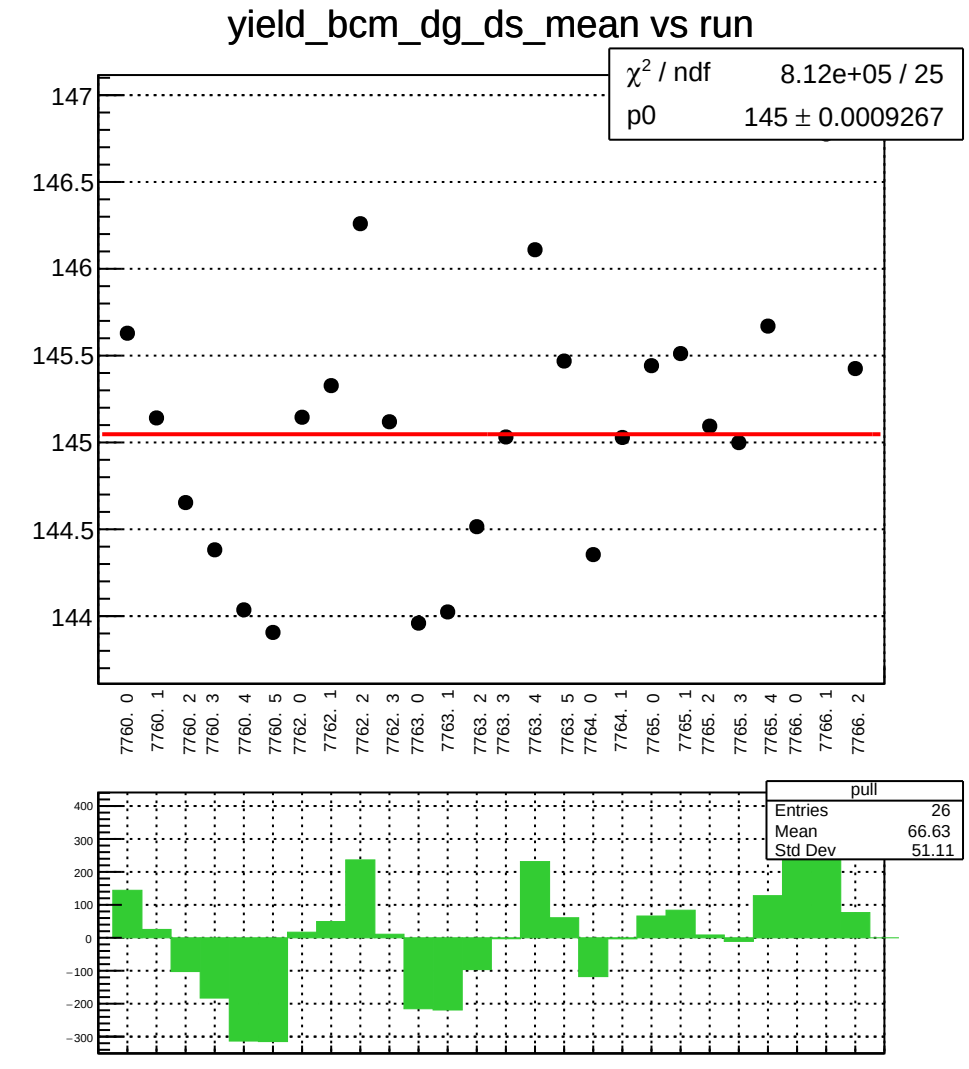

pull1D
Entries 26
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

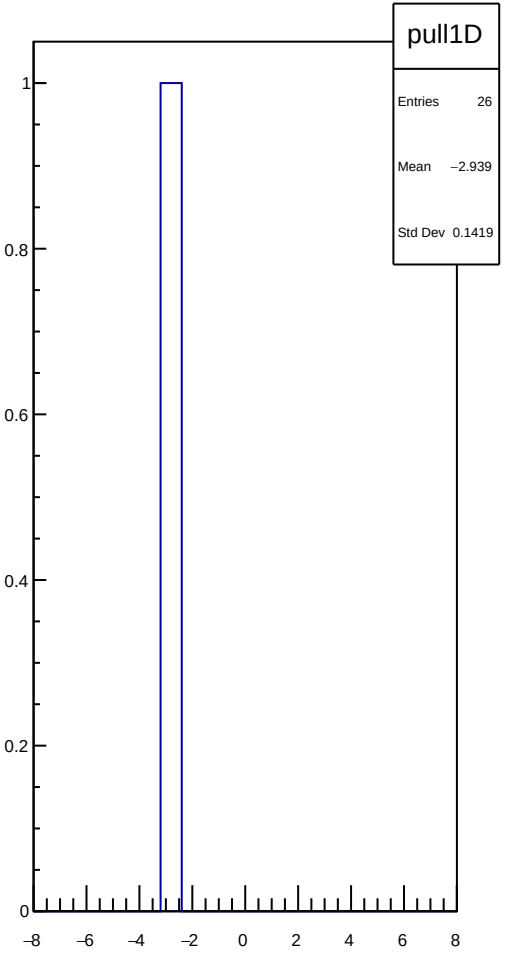

yield_bcm_an_us_rms vs run
χ² / ndf 1.964e+04 / 25
p0 0.415 ± 0.0005881
0.6
0.55
0.5
0.45
0.4
0.35
0.3
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

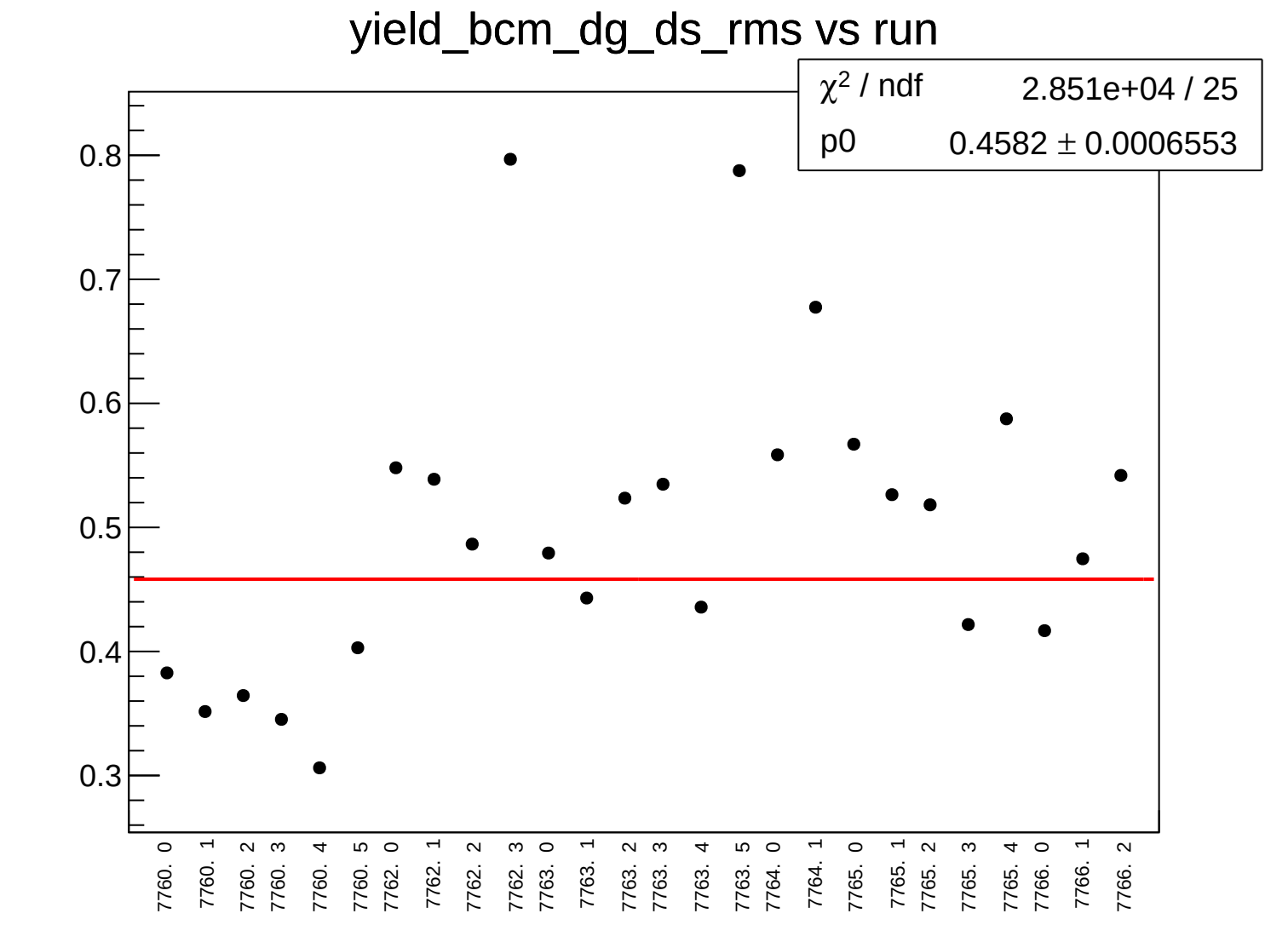

yield_bcm_dg_us_mean vs run
χ² / ndf 6.823e+05 / 25
p0 145 ± 0.000903
146.5
146
145.5
145
144.5
144
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 74.05
Std Dev 58.53
300
200
100
0
−100
−200
−300

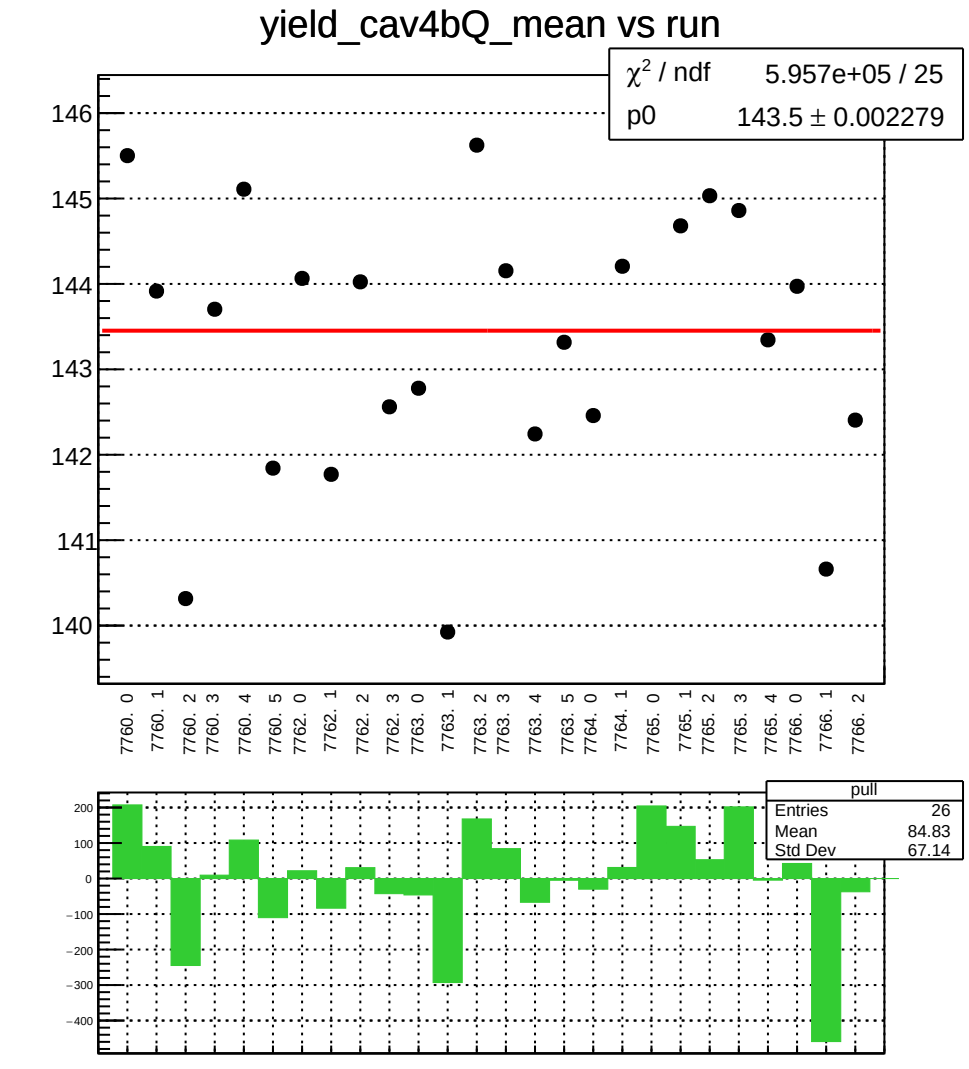

pull1D
Entries 26
Mean 1.435
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

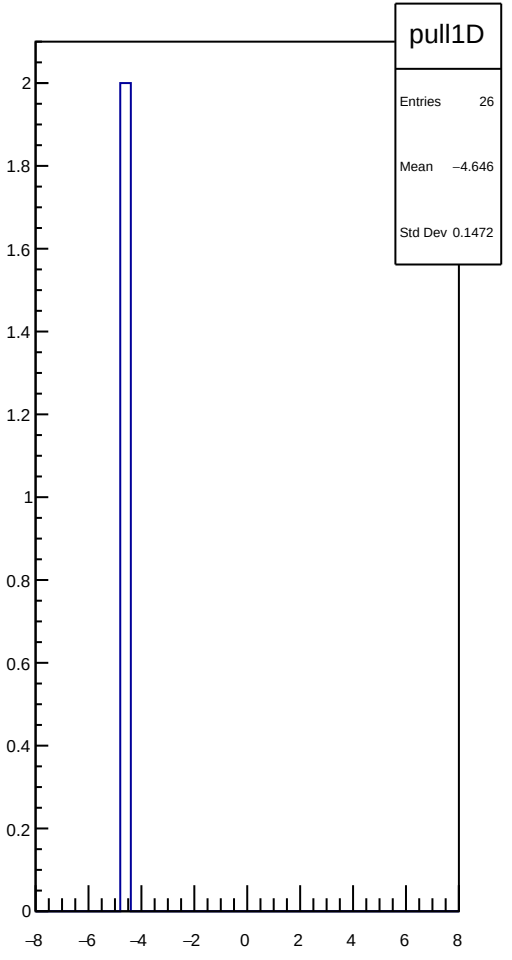

yield_bcm_dg_us_rms vs run
χ² / ndf 2.512e+04 / 25
p0 0.448 ± 0.0006385
0.8
0.7
0.6
0.5
0.4
0.3
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

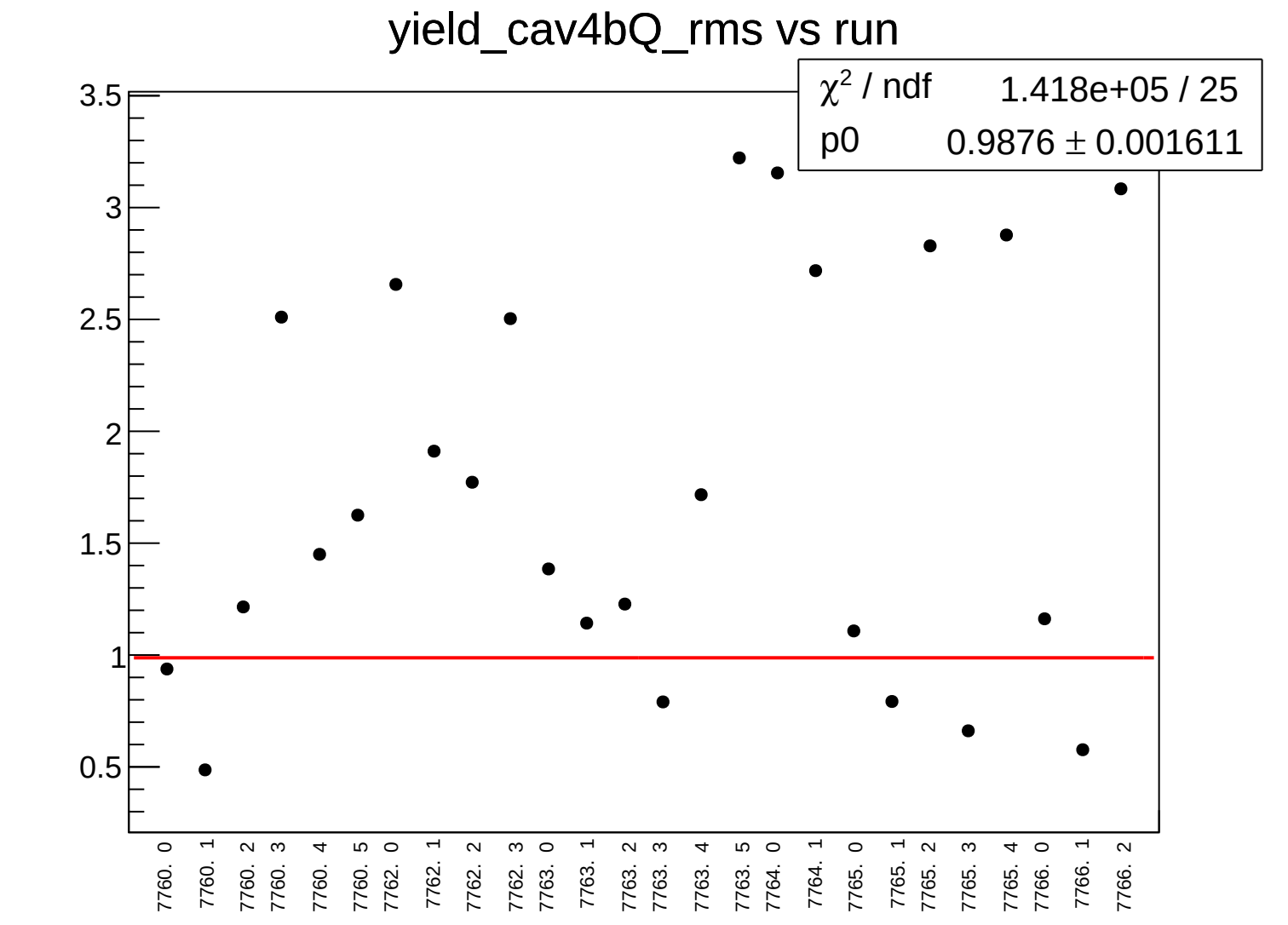

yield_bcm_dg_ds_mean vs run
χ² / ndf 8.12e+05 / 25
p0 145 ± 0.0009267
147
146.5
146
145.5
145
144.5
144
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 66.63
Std Dev 51.11
400
300
200
100
0
−100
−200
−300

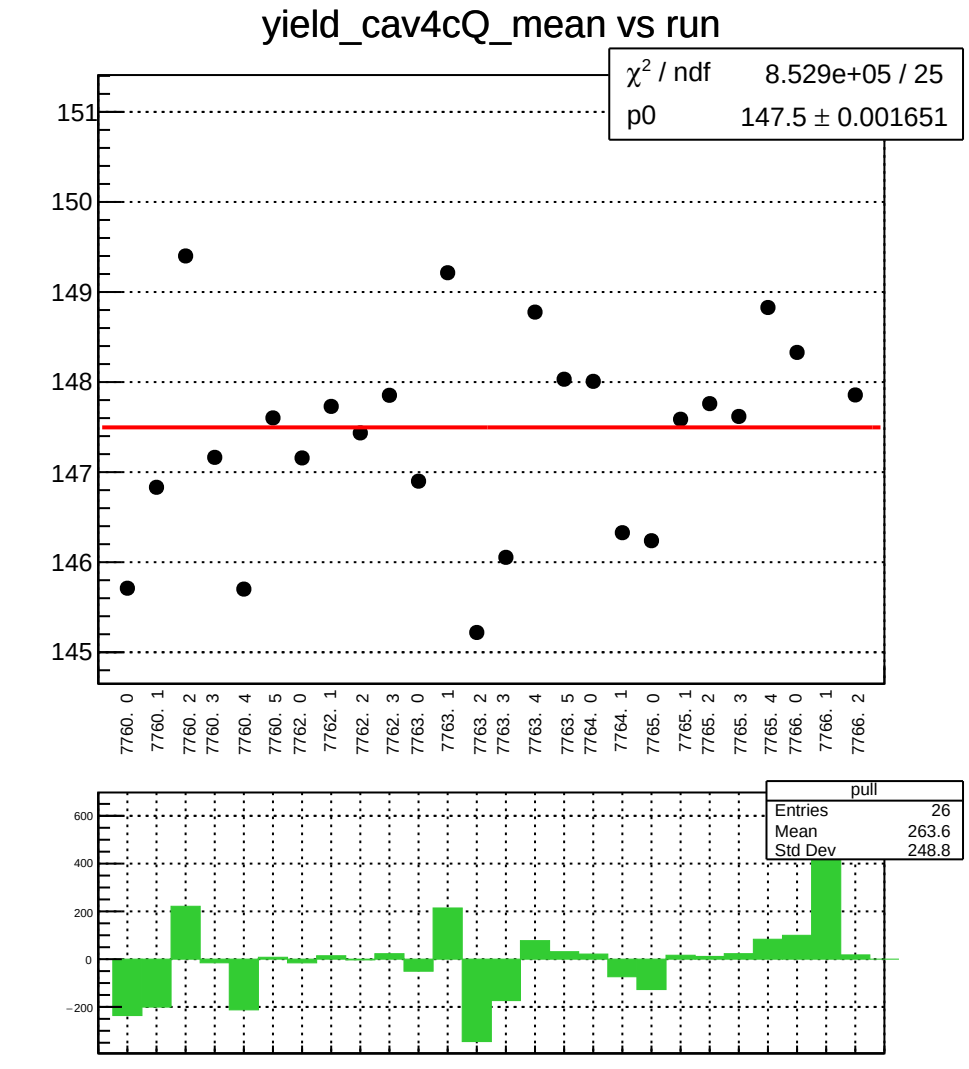

pull1D
Entries 26
Mean −2.939
Std Dev 0.1419
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

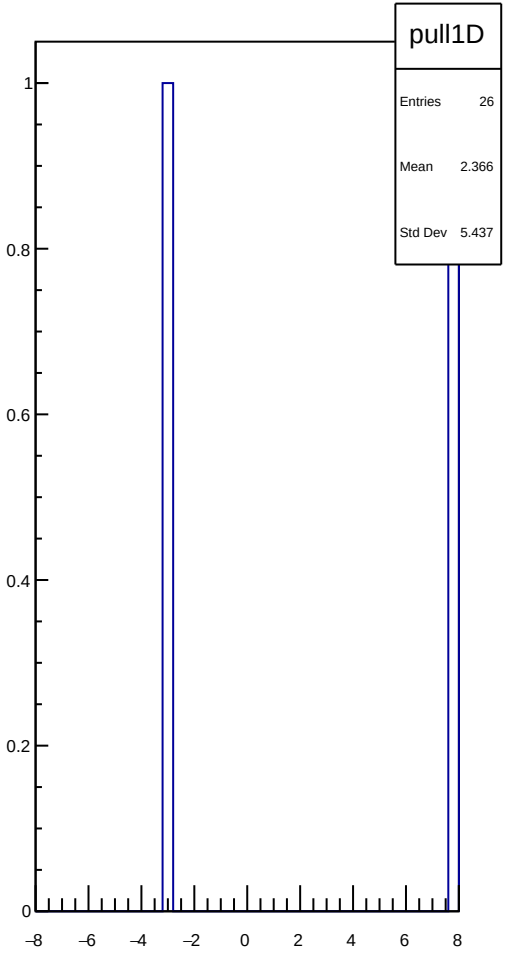

yield_bcm_dg_ds_rms vs run
χ² / ndf 2.851e+04 / 25
p0 0.4582 ± 0.0006553
0.8
0.7
0.6
0.5
0.4
0.3
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

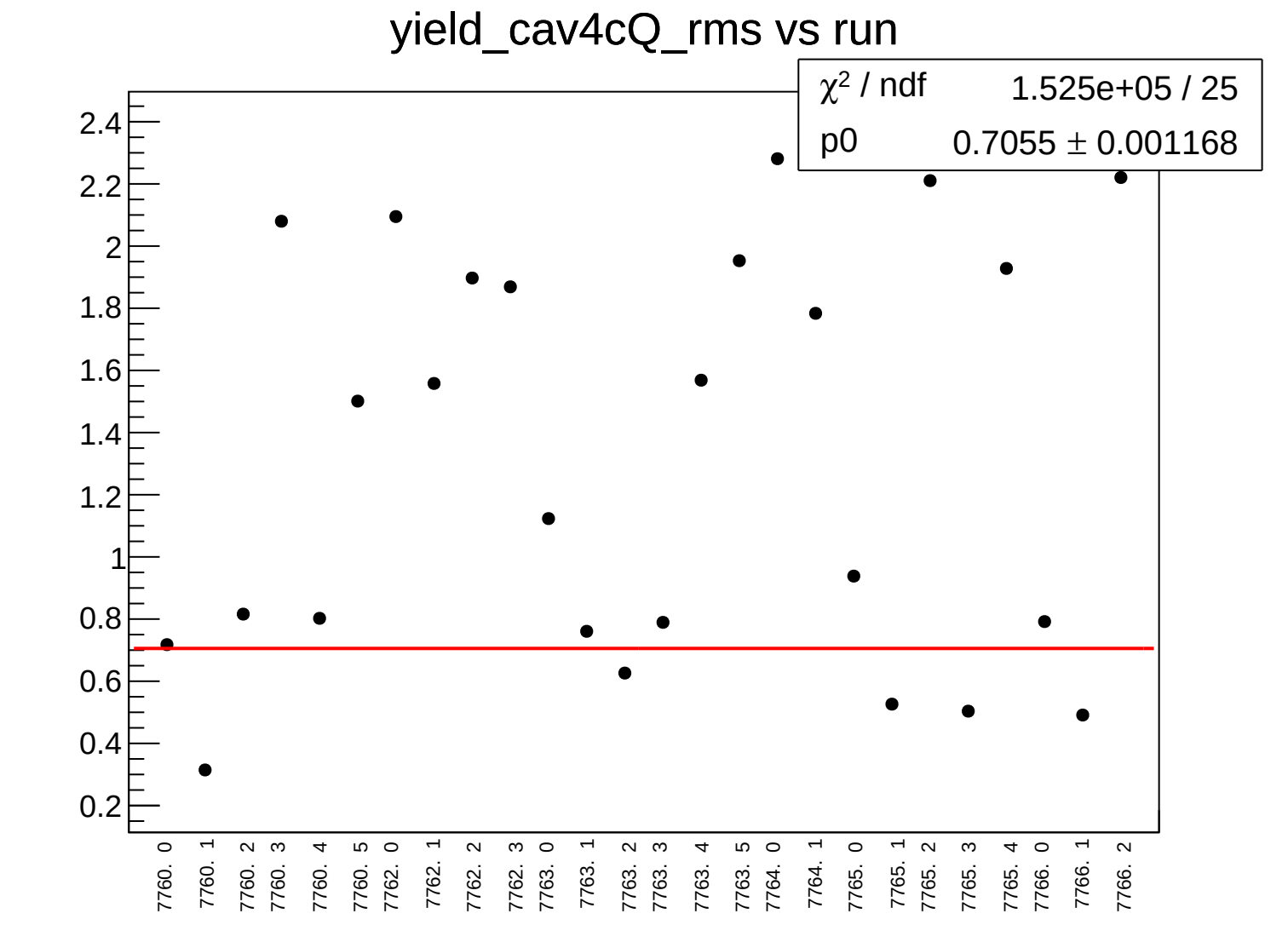

yield_cav4bQ_mean vs run
χ² / ndf 5.957e+05 / 25
p0 143.5 ± 0.002279
146
145
144
143
142
141
140
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 84.83
Std Dev 67.14
200
100
0
−100
−200
−300
−400

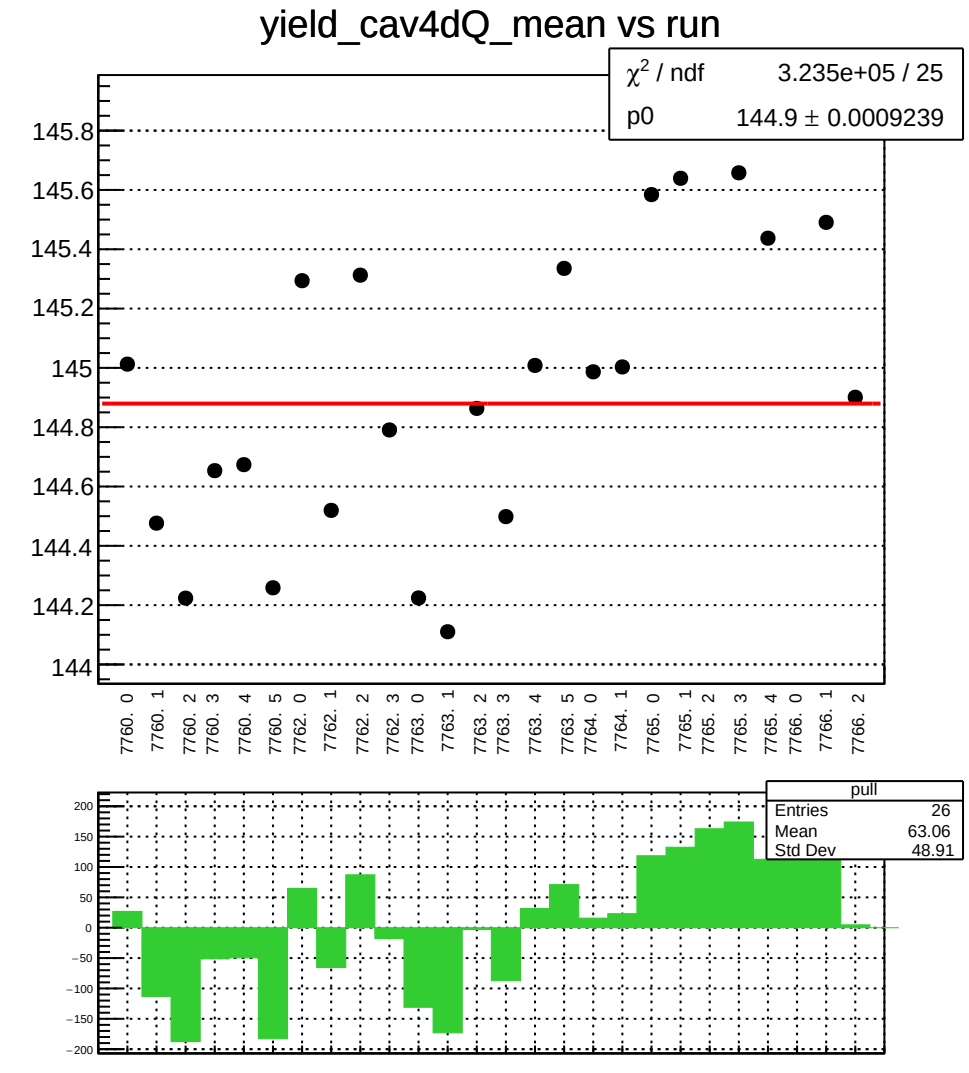

pull1D
Entries 26
Mean −4.646
Std Dev 0.1472
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

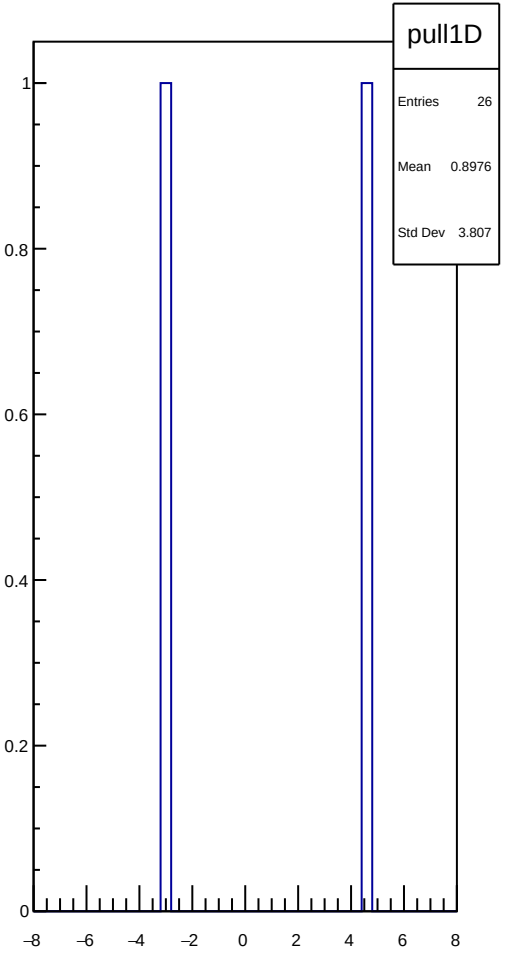

yield_cav4bQ_rms vs run
χ² / ndf 1.418e+05 / 25
p0 0.9876 ± 0.001611
3.5
3
2.5
2
1.5
1
0.5
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

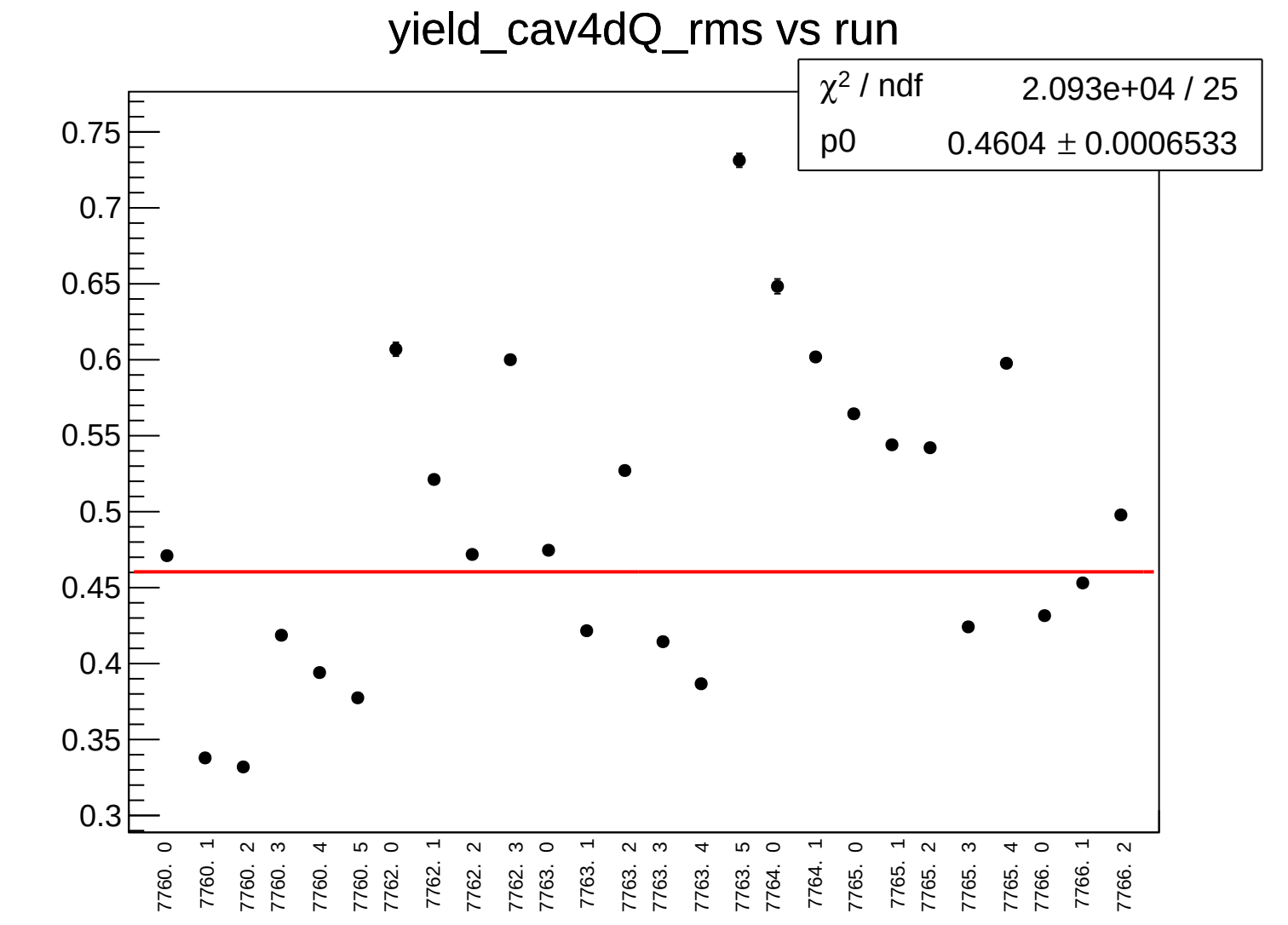

yield_cav4cQ_mean vs run
χ² / ndf 8.529e+05 / 25
p0 147.5 ± 0.001651
151
150
149
148
147
146
145
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 263.6
Std Dev 248.8
600
400
200
0
−200

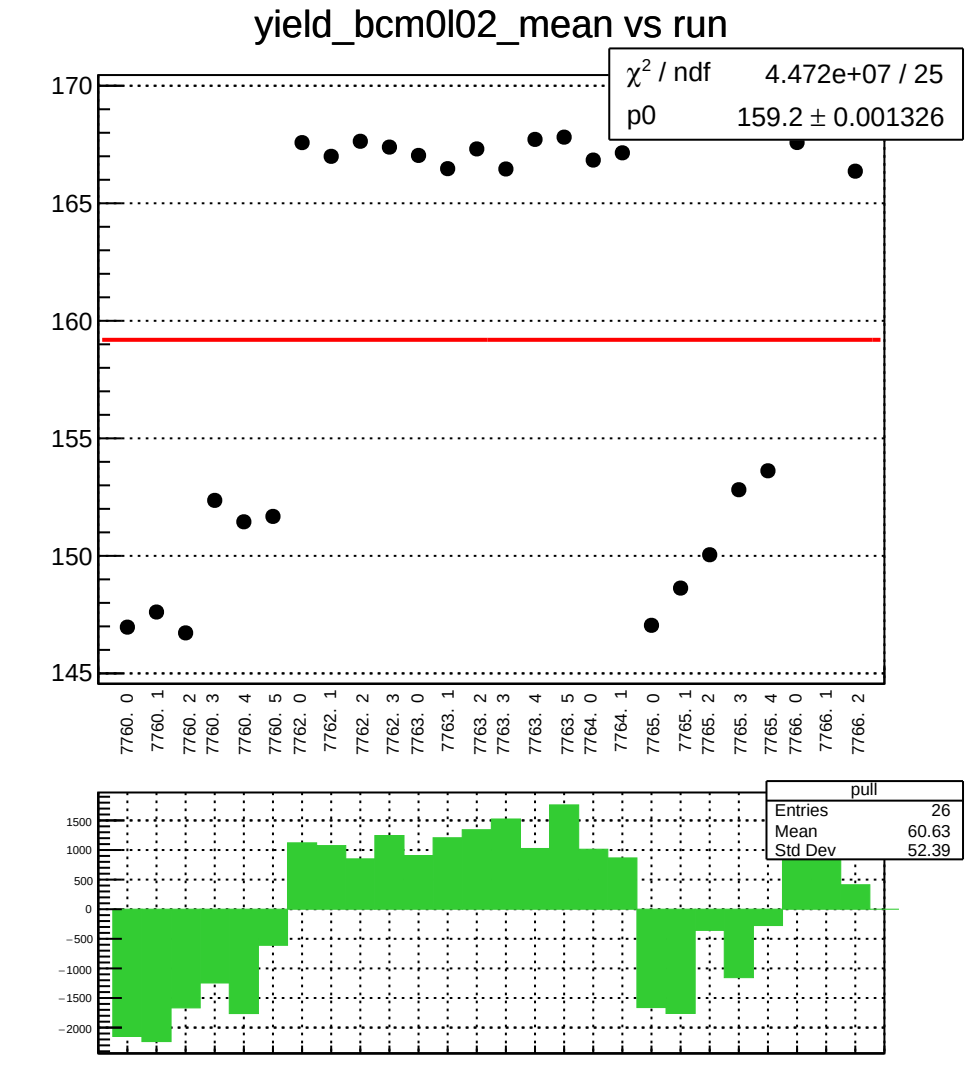

pull1D
Entries 26
Mean 2.366
Std Dev 5.437
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

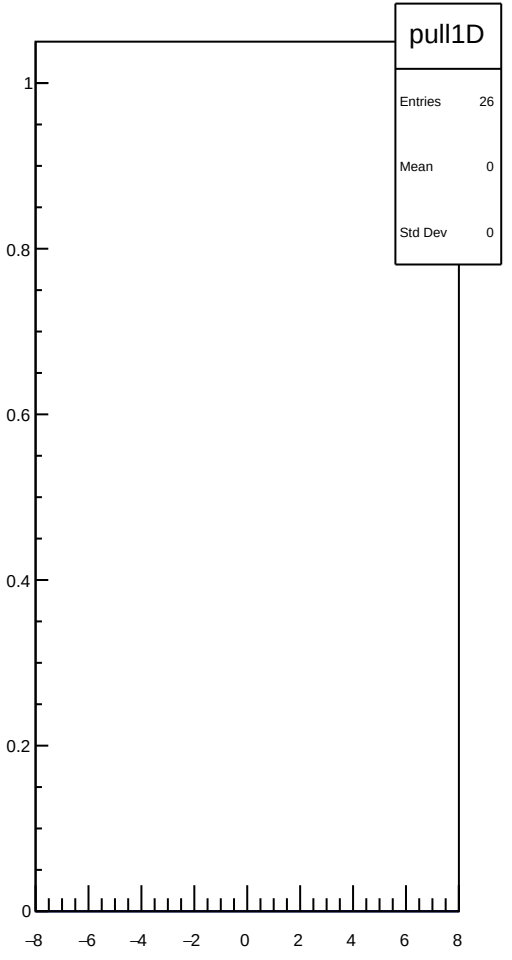

yield_cav4cQ_rms vs run
χ² / ndf 1.525e+05 / 25
p0 0.7055 ± 0.001168
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

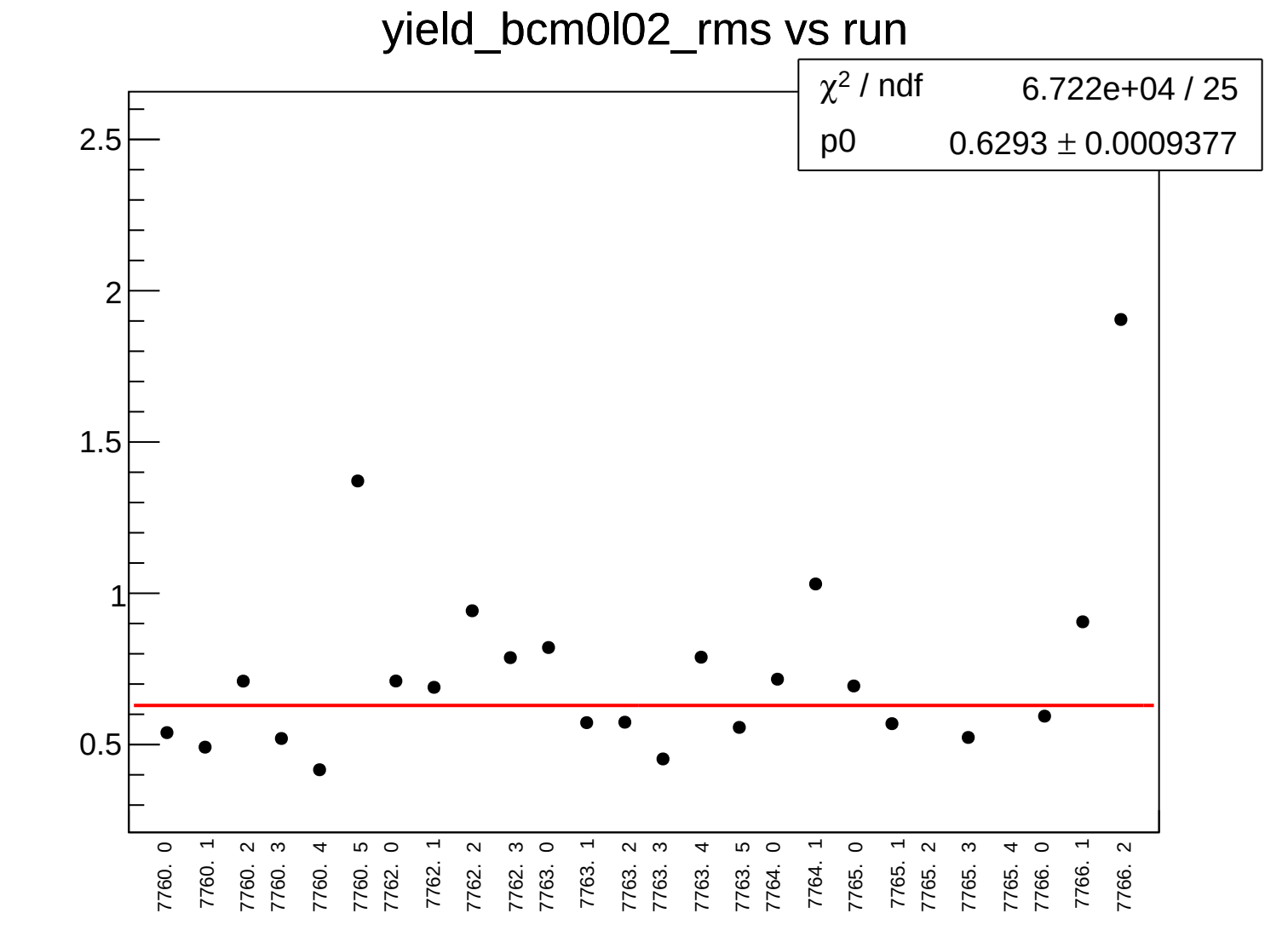

yield_cav4dQ_mean vs run
χ² / ndf 3.235e+05 / 25
p0 144.9 ± 0.0009239
145.8
145.6
145.4
145.2
145
144.8
144.6
144.4
144.2
144
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 63.06
Std Dev 48.91
200
150
100
50
0
−50
−100
−150
−200

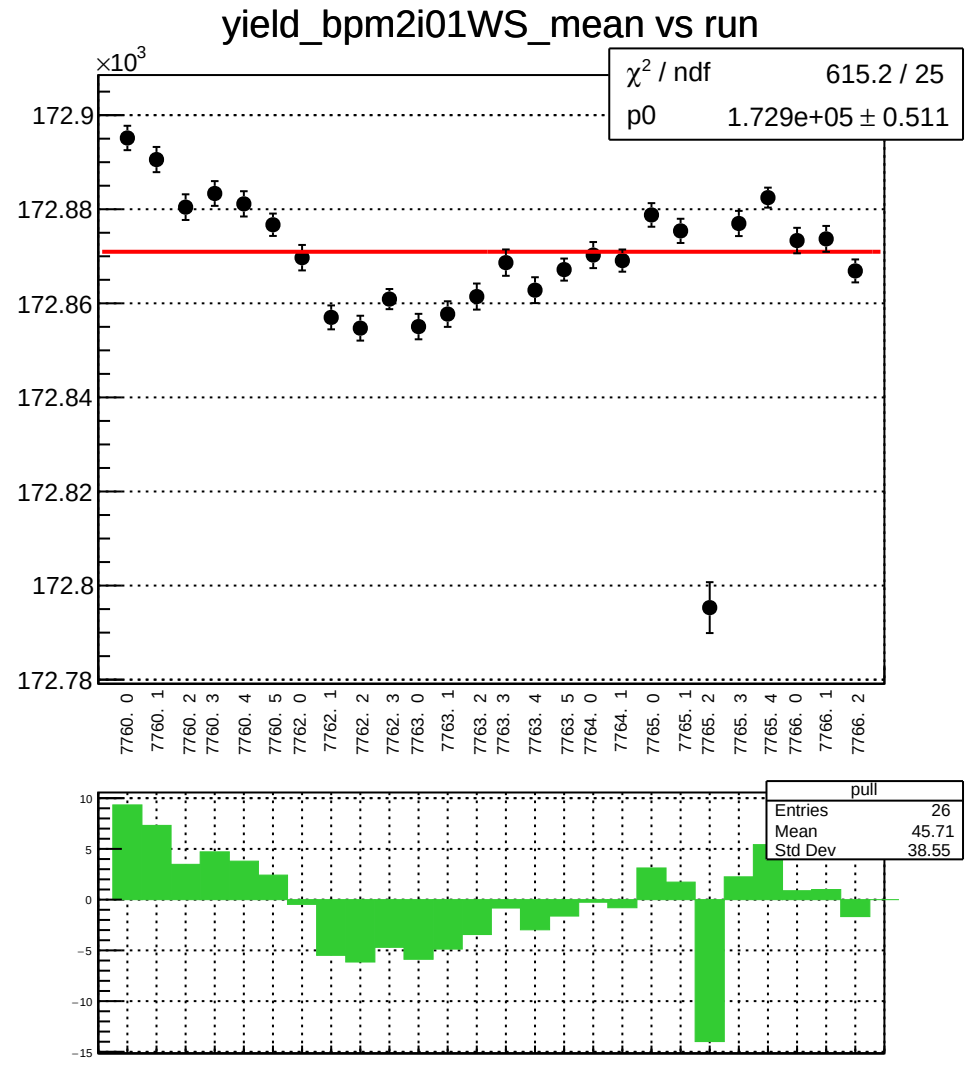

pull1D
Entries 26
Mean 0.8976
Std Dev 3.807
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

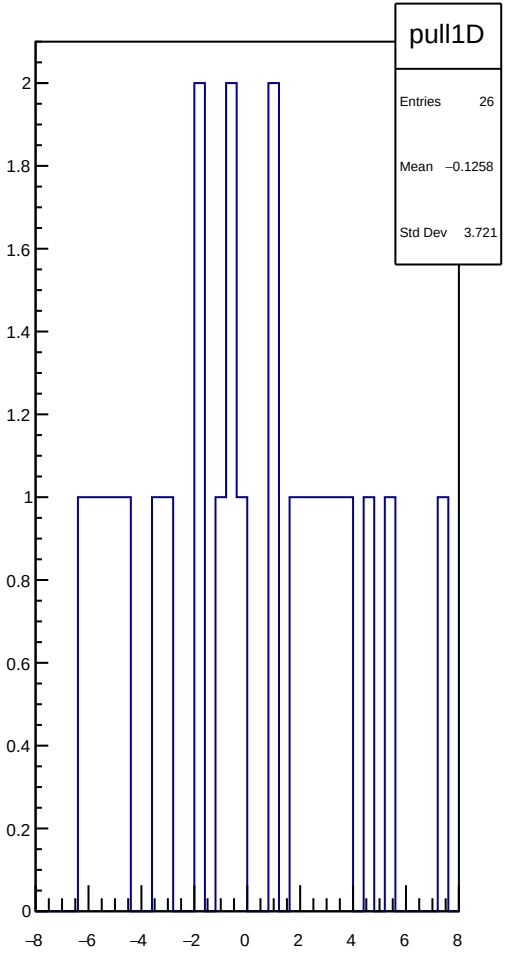

yield_cav4dQ_rms vs run
χ² / ndf 2.093e+04 / 25
p0 0.4604 ± 0.0006533
0.75
0.7
0.65
0.6
0.55
0.5
0.45
0.4
0.35
0.3
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

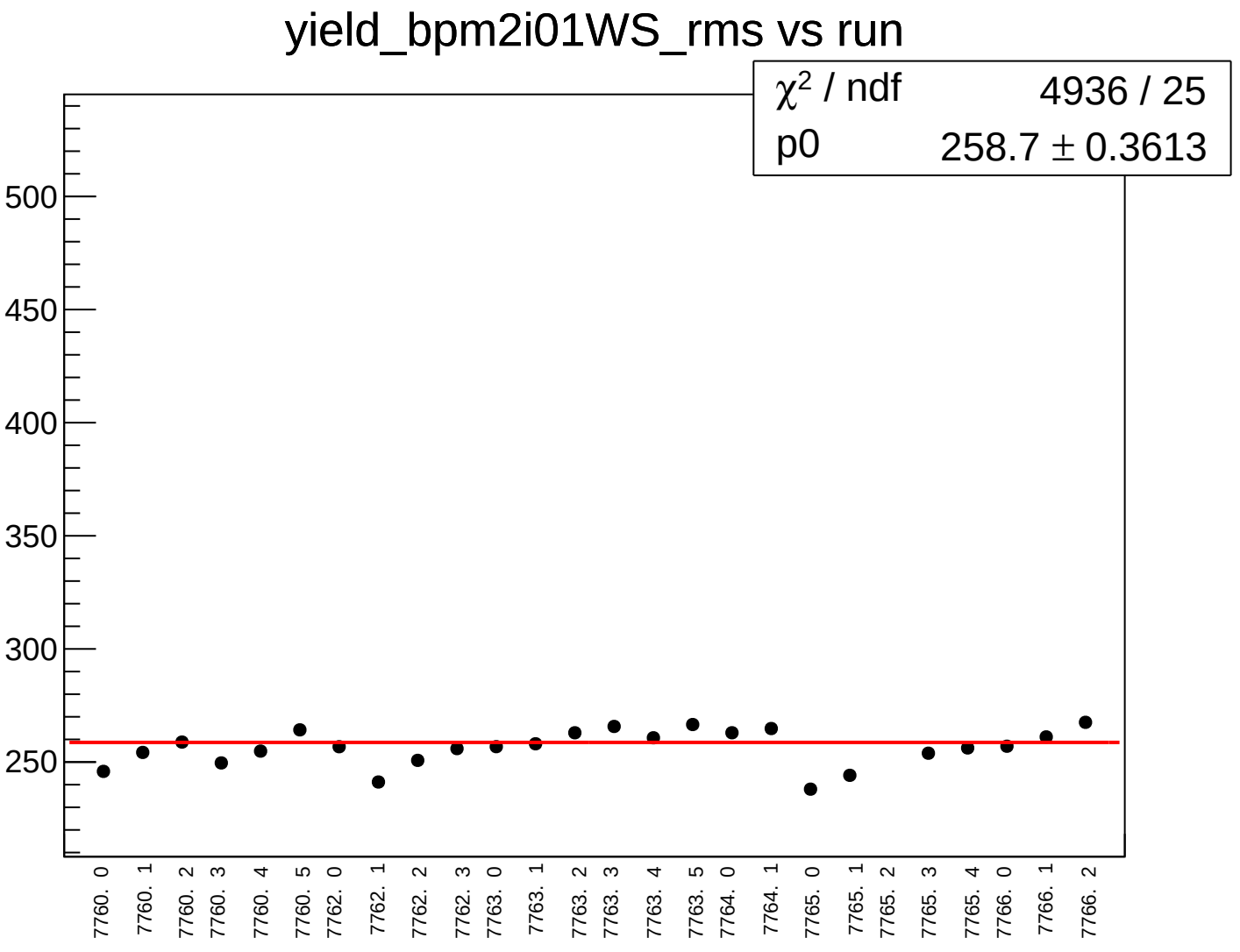

yield_bcm0l02_mean vs run
χ² / ndf 4.472e+07 / 25
p0 159.2 ± 0.001326
170
165
160
155
150
145
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 60.63
Std Dev 52.39
1500
1000
500
0
−500
−1000
−1500
−2000

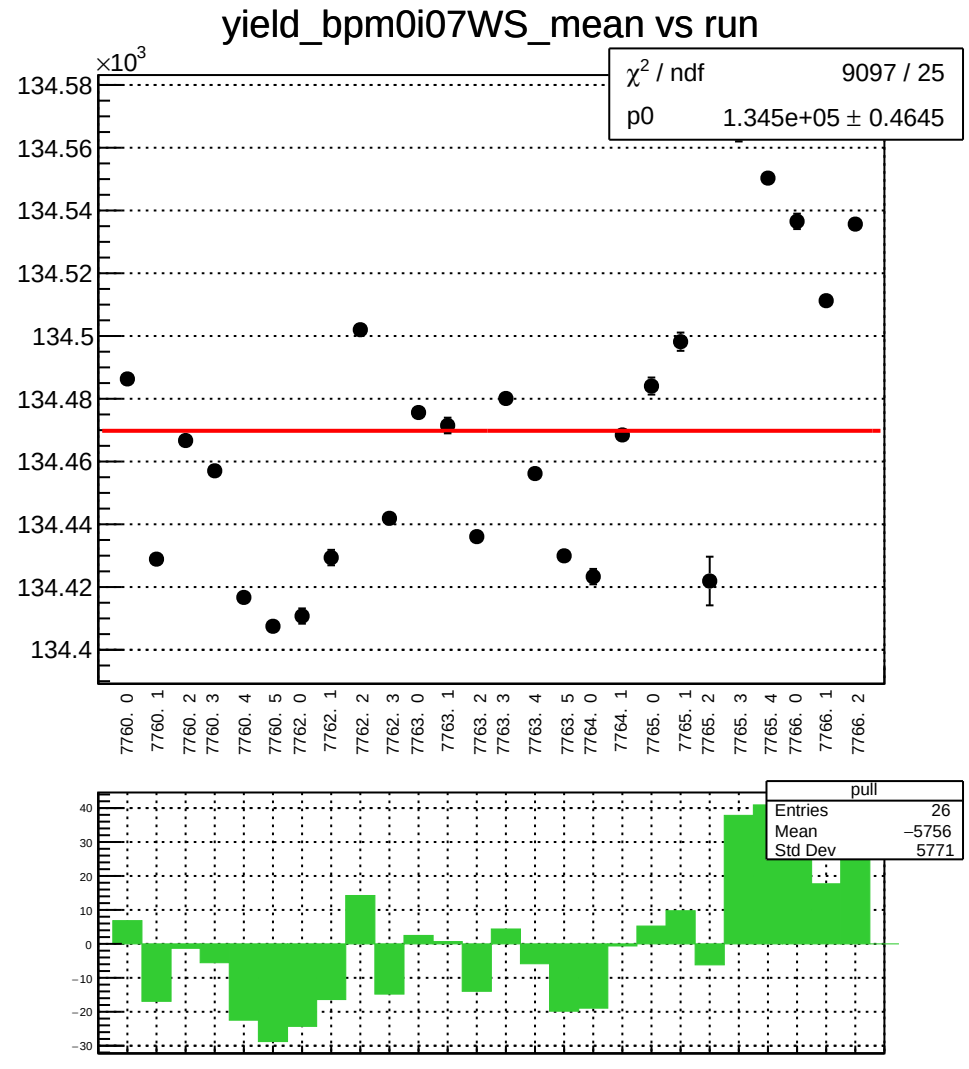

pull1D
Entries 26
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

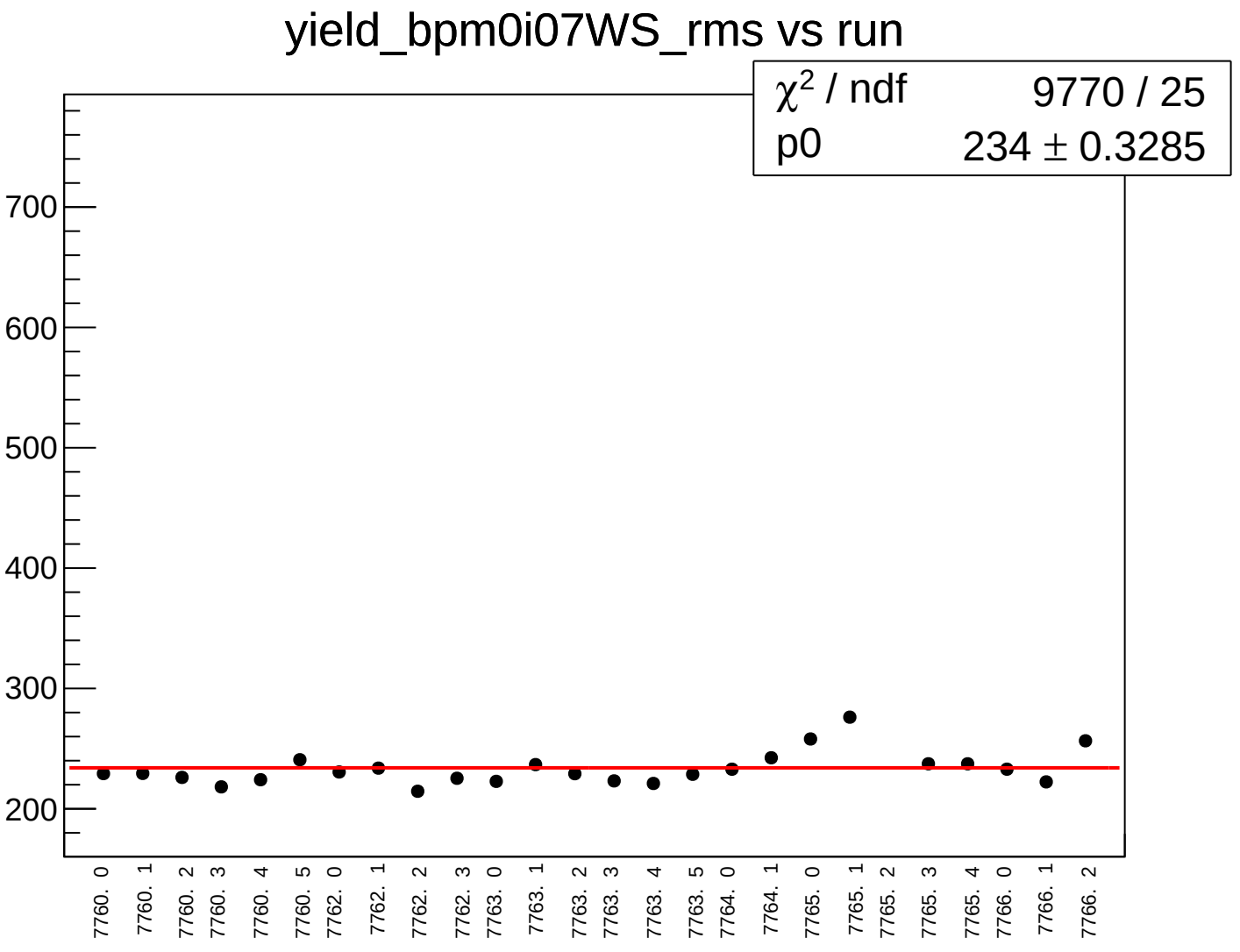

yield_bcm0l02_rms vs run
χ² / ndf 6.722e+04 / 25
p0 0.6293 ± 0.0009377
2.5
2
1.5
1
0.5
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

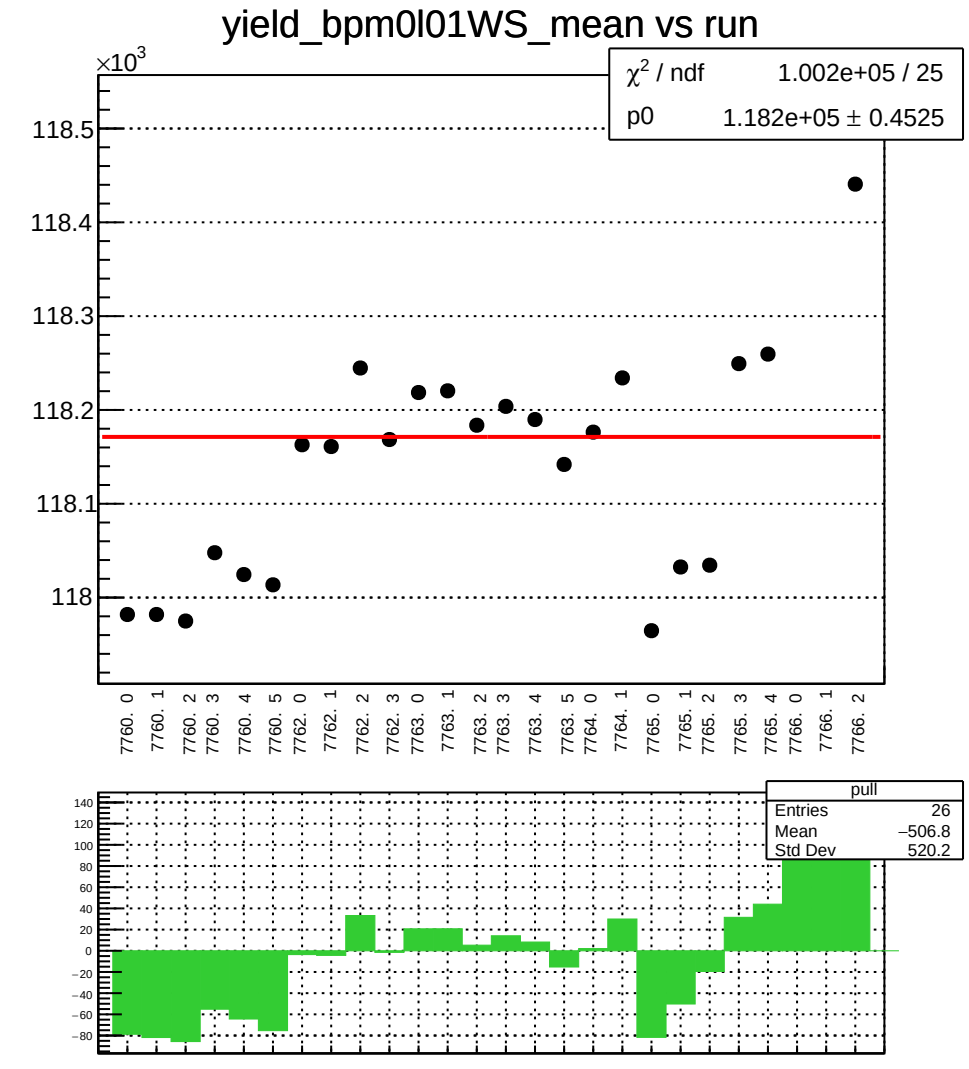

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 615.2 / 25
p0 1.729e+05 ± 0.511
172.9
172.88
172.86
172.84
172.82
172.8
172.78
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 45.71
Std Dev 38.55
10
5
0
−5
−10
−15

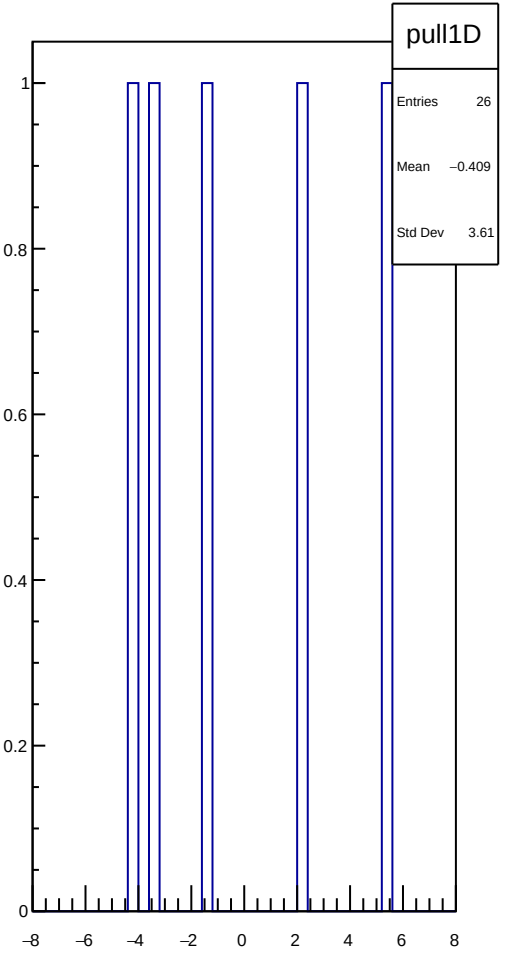

pull1D
Entries 26
Mean −0.1258
Std Dev 3.721
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

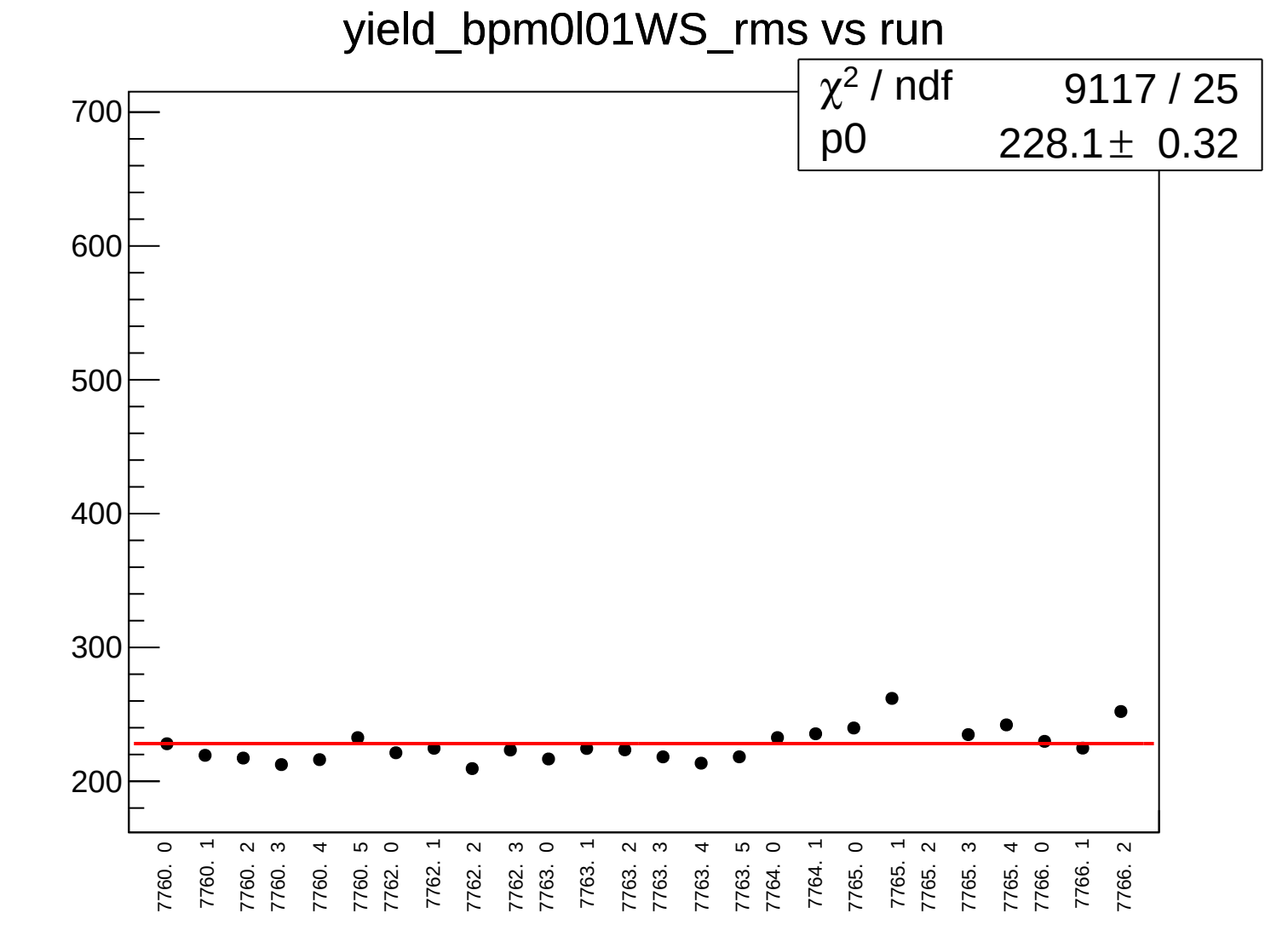

yield_bpm2i01WS_rms vs run
χ² / ndf 4936 / 25
p0 258.7 ± 0.3613
500
450
400
350
300
250
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

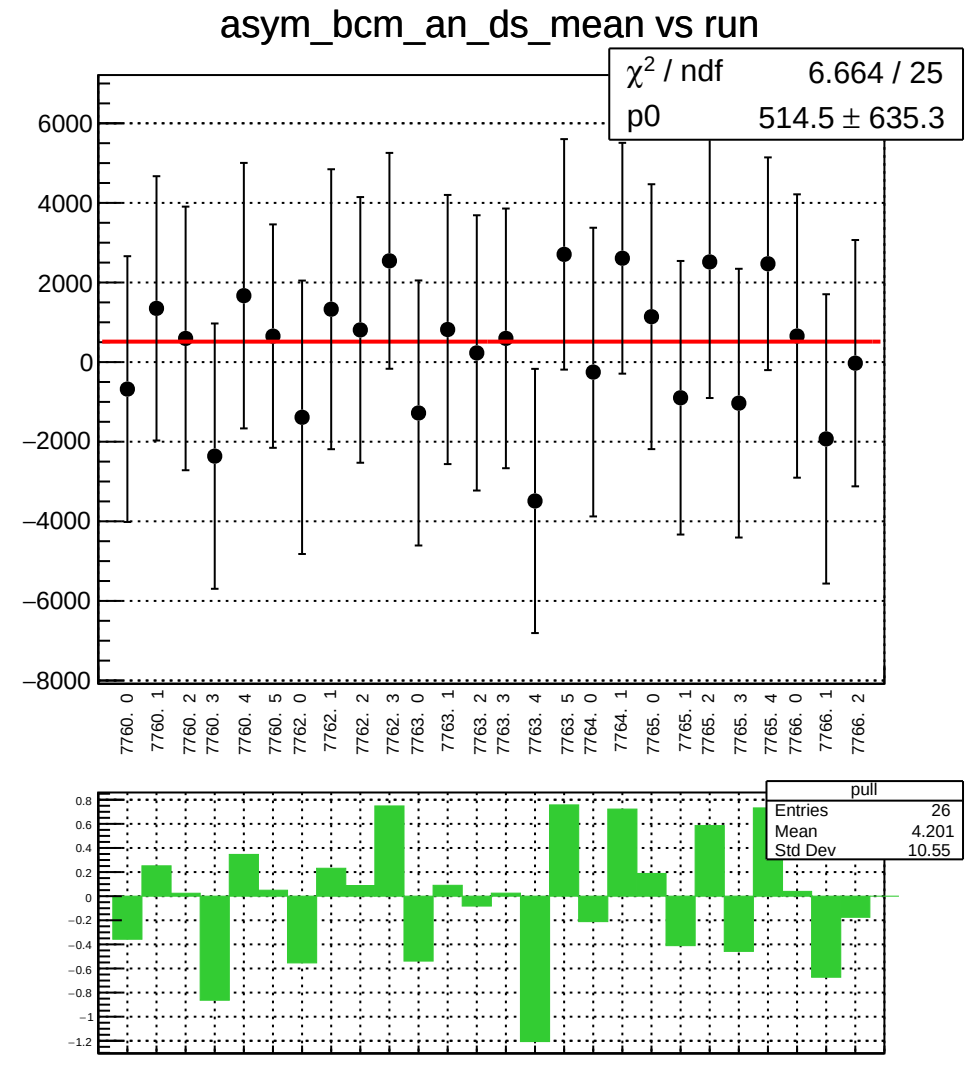

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 9097 / 25
p0 1.345e+05 ± 0.4645
134.58
134.56
134.54
134.52
134.5
134.48
134.46
134.44
134.42
134.4
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −5756
Std Dev 5771
40
30
20
10
0
−10
−20
−30
pull1D
Entries 26
Mean 0.01432
Std Dev 4.53
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

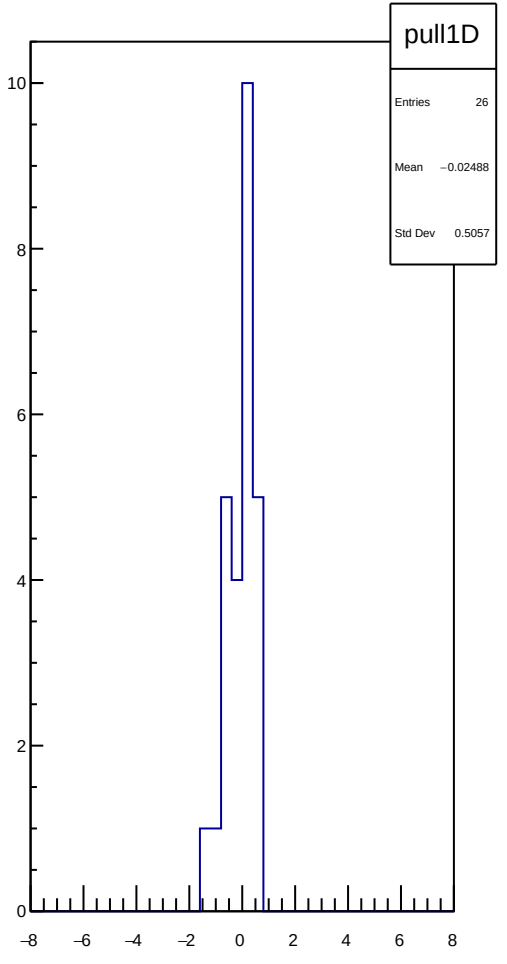

yield_bpm0i07WS_rms vs run
χ² / ndf 9770 / 25
p0 234 ± 0.3285
700
600
500
400
300
200
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

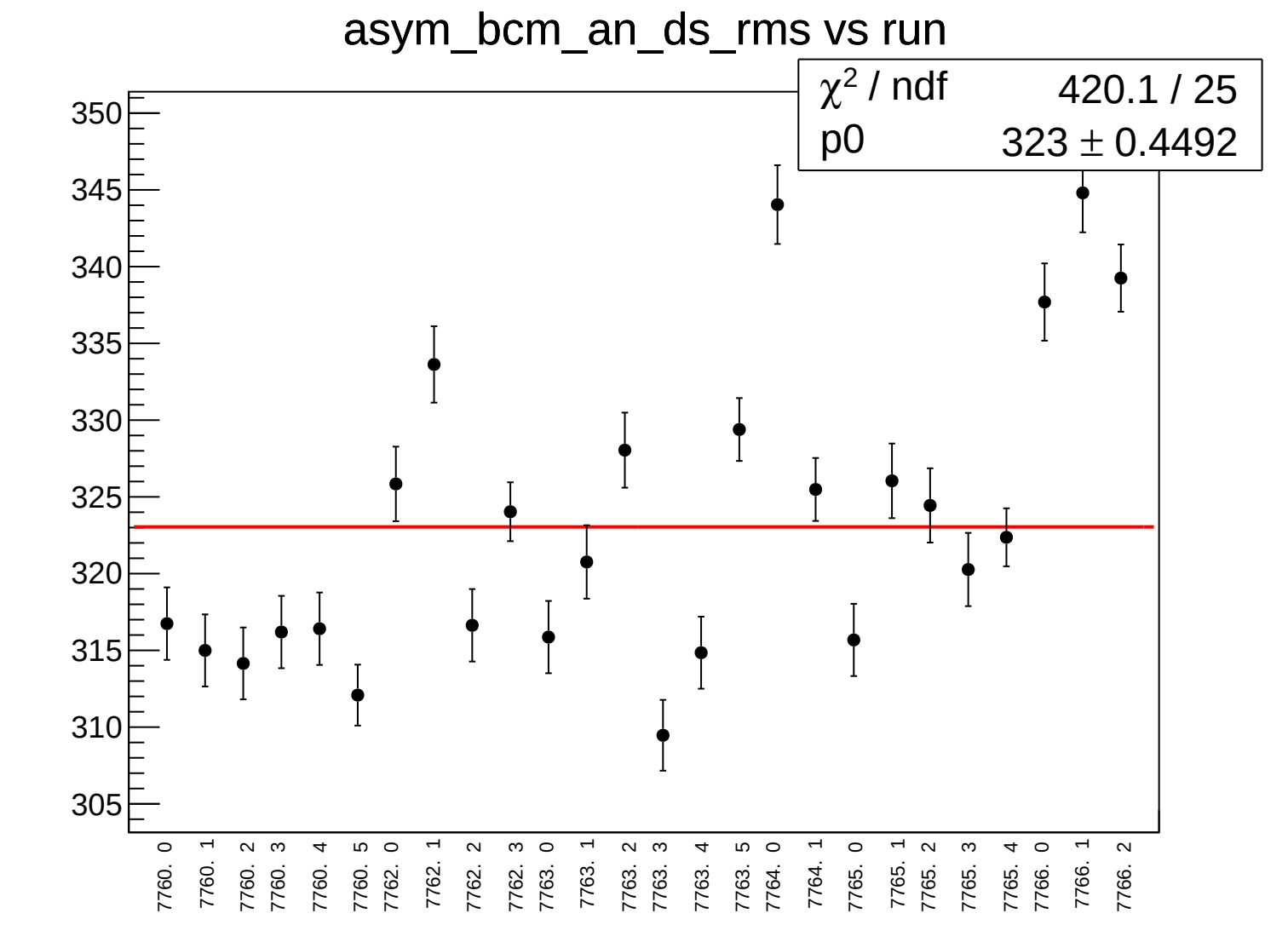

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 1.002e+05 / 25
p0 1.182e+05 ± 0.4525
118.5
118.4
118.3
118.2
118.1
118
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −506.8
Std Dev 520.2
140
120
100
80
60
40
20
0
−20
−40
−60
−80

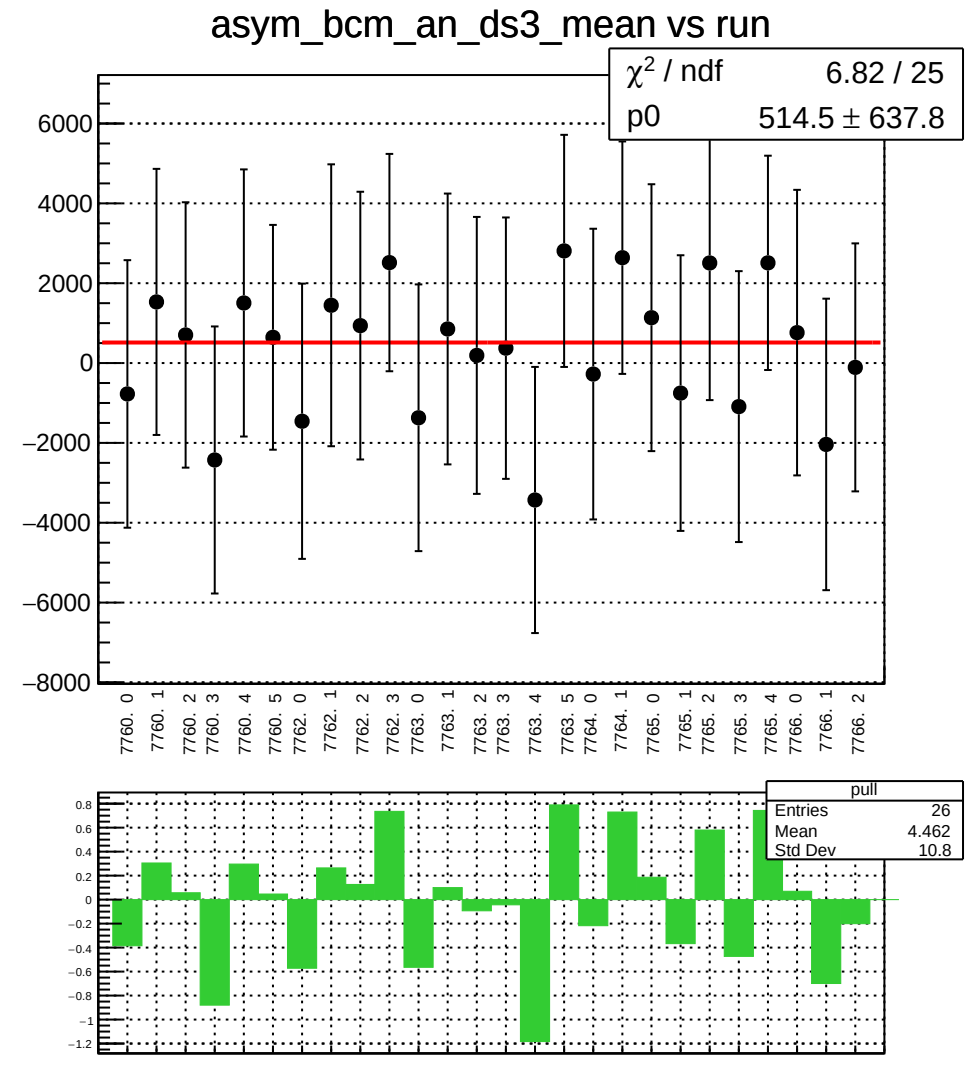

pull1D
Entries 26
Mean −0.409
Std Dev 3.61
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

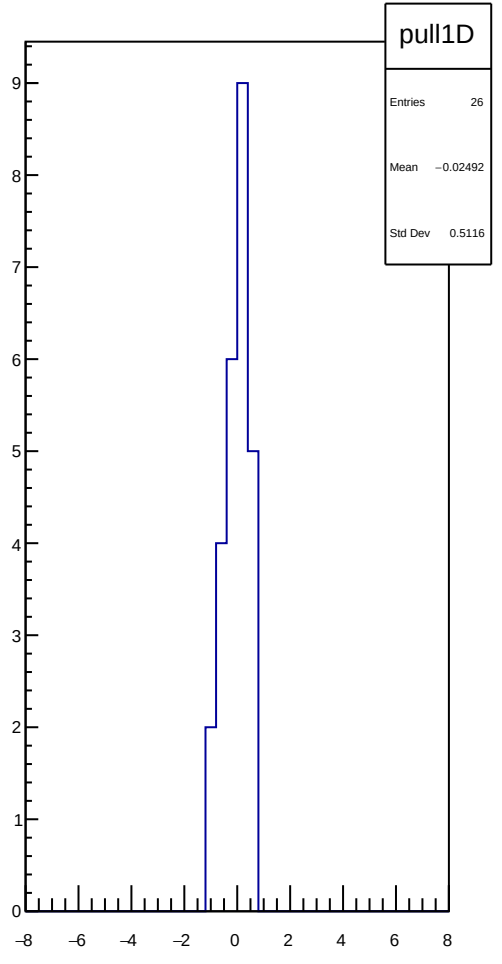

yield_bpm0l01WS_rms vs run
χ² / ndf 9117 / 25
p0 228.1 ± 0.32
700
600
500
400
300
200
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

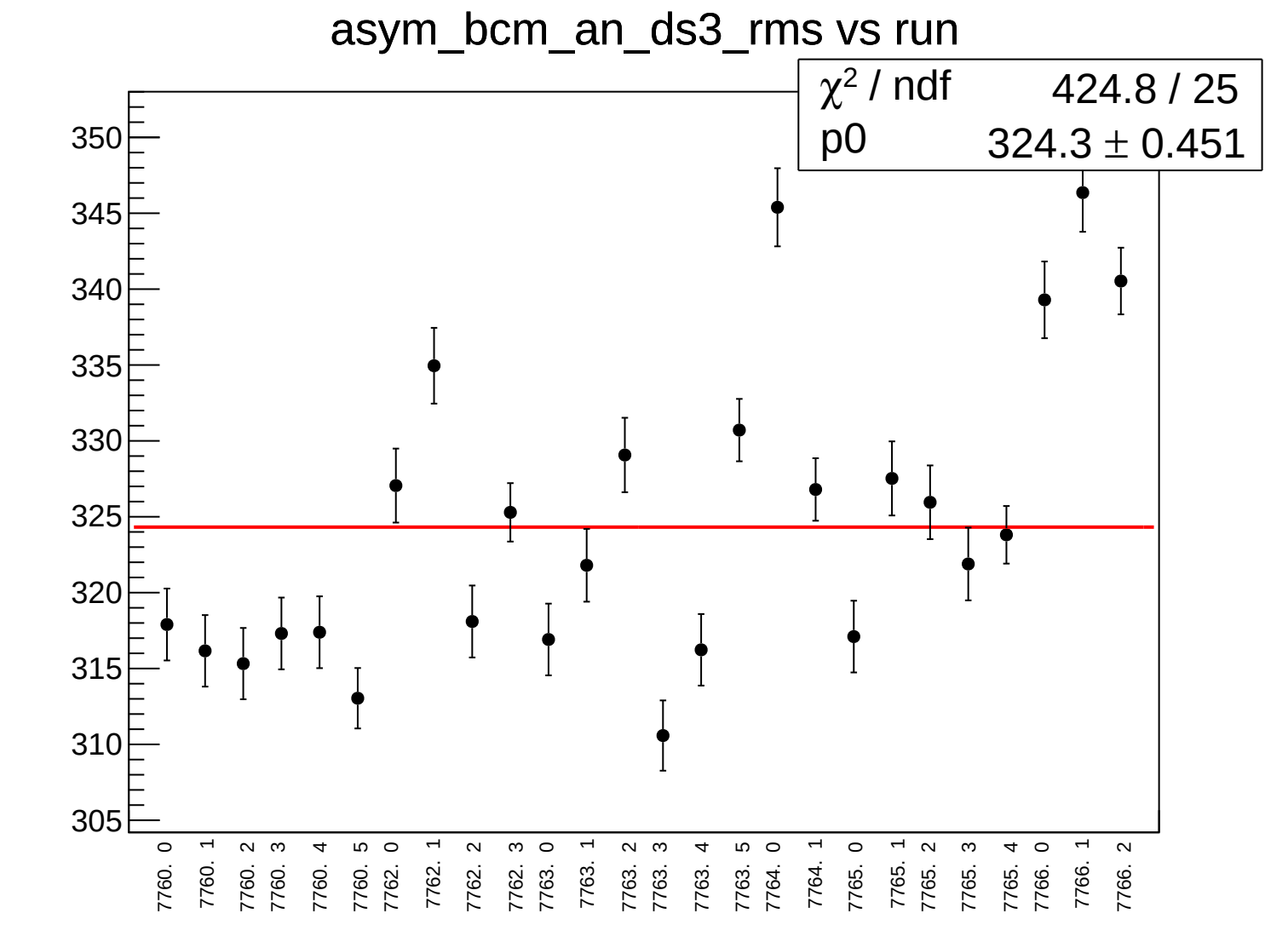

asym_bcm_an_ds_mean vs run
χ² / ndf 6.664 / 25
p0 514.5 ± 635.3
6000
4000
2000
0
−2000
−4000
−6000
−8000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 4.201
Std Dev 10.55
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

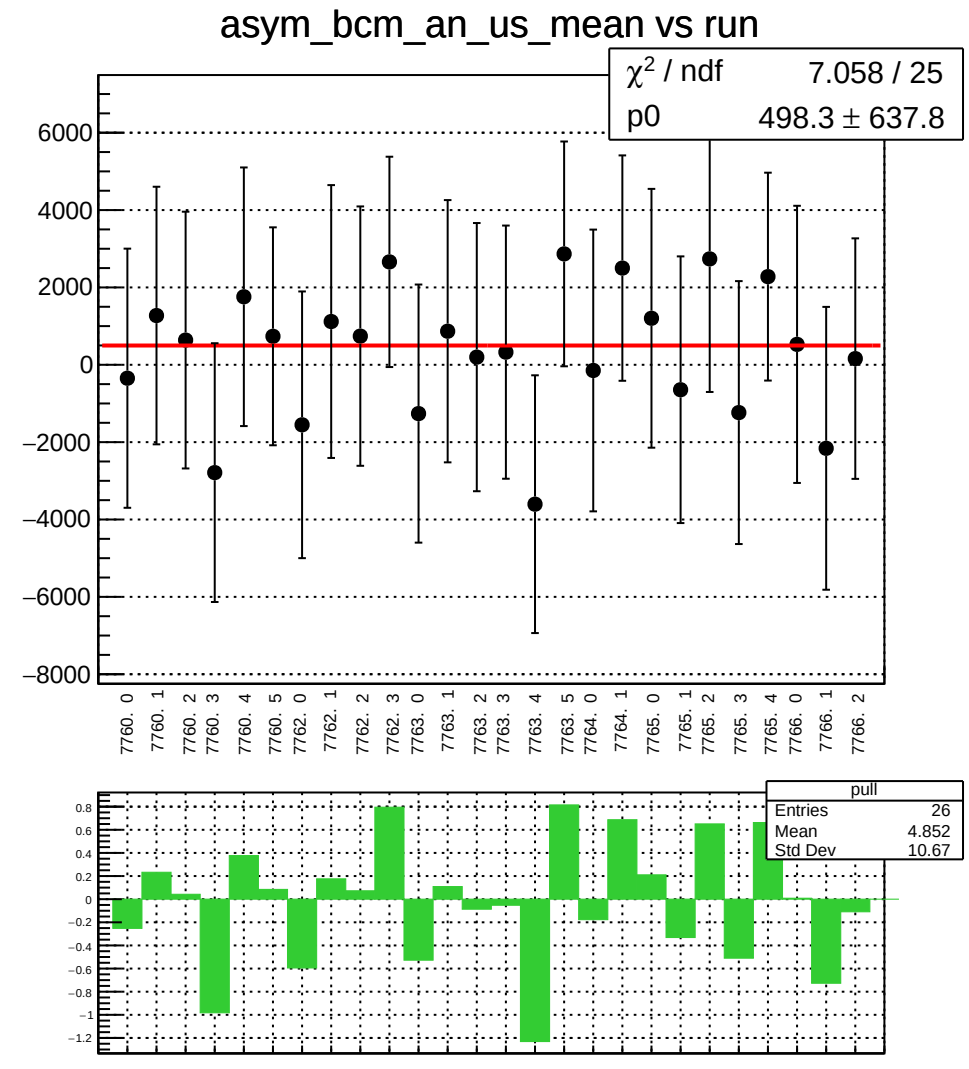

pull1D
Entries 26
Mean −0.02488
Std Dev 0.5057
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

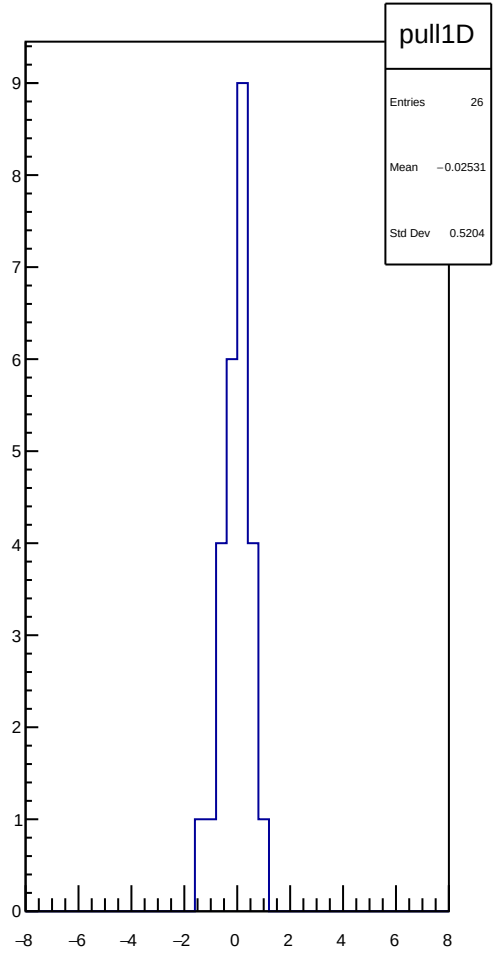

asym_bcm_an_ds_rms vs run
χ² / ndf 420.1 / 25
p0 323 ± 0.4492
350
345
340
335
330
325
320
315
310
305
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

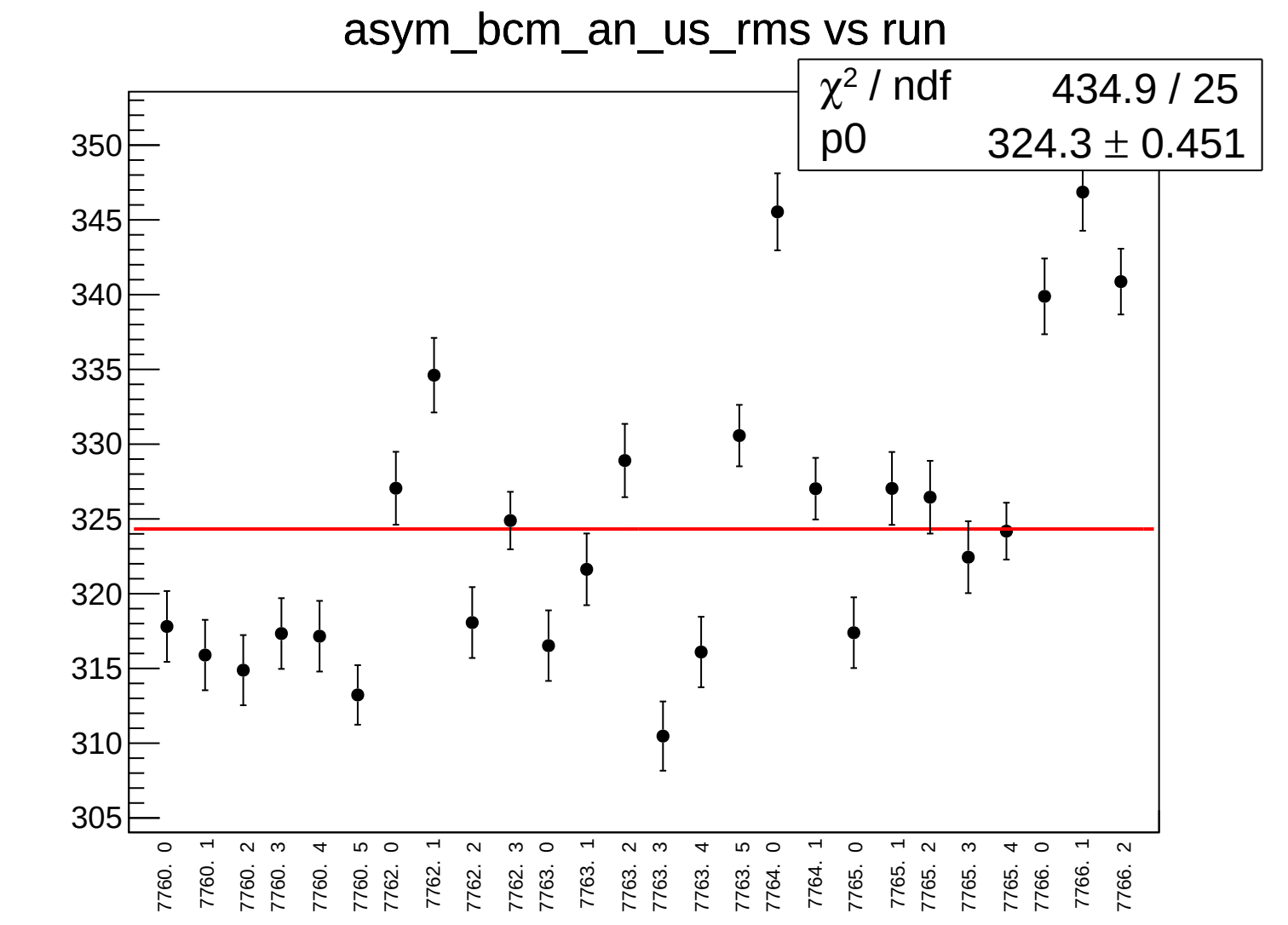

asym_bcm_an_ds3_mean vs run
χ² / ndf 6.82 / 25
p0 514.5 ± 637.8
6000
4000
2000
0
−2000
−4000
−6000
−8000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 4.462
Std Dev 10.8
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

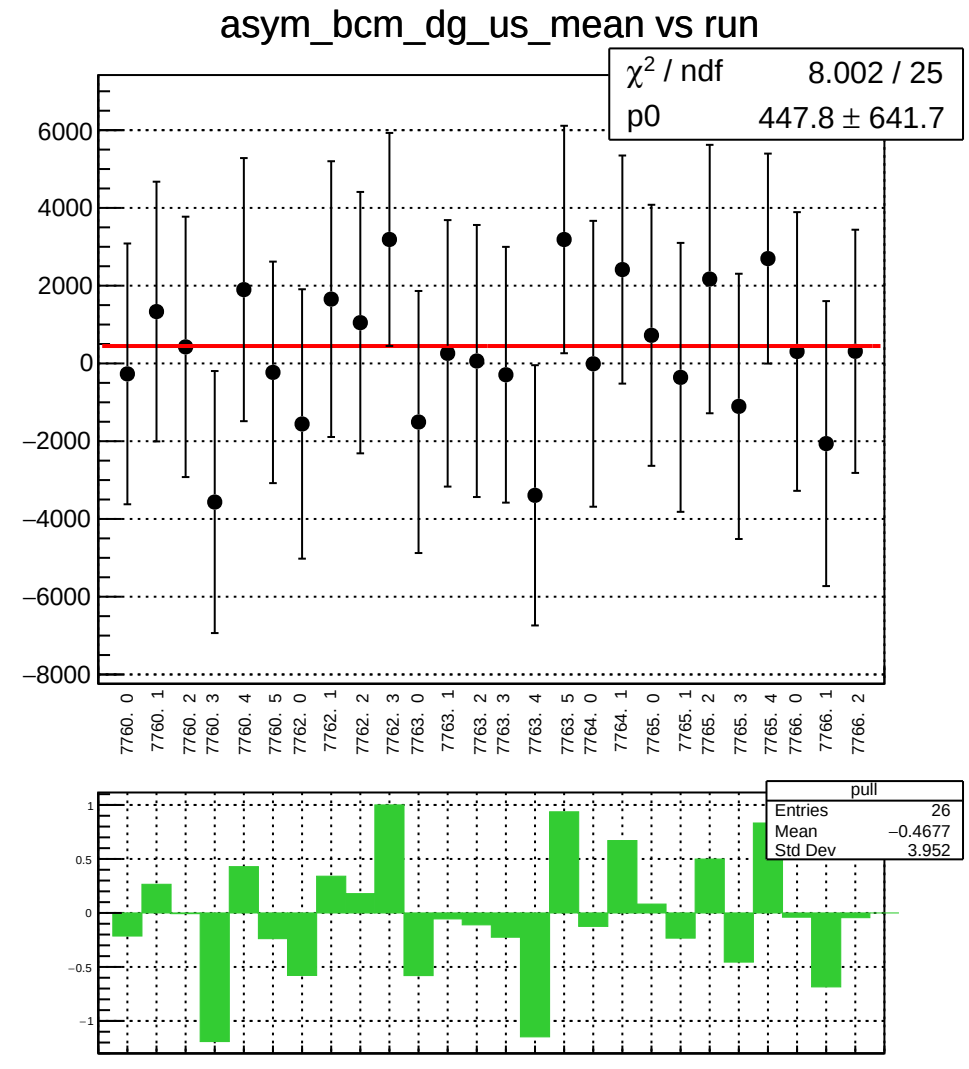

pull1D
Entries 26
Mean −0.02492
Std Dev 0.5116
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

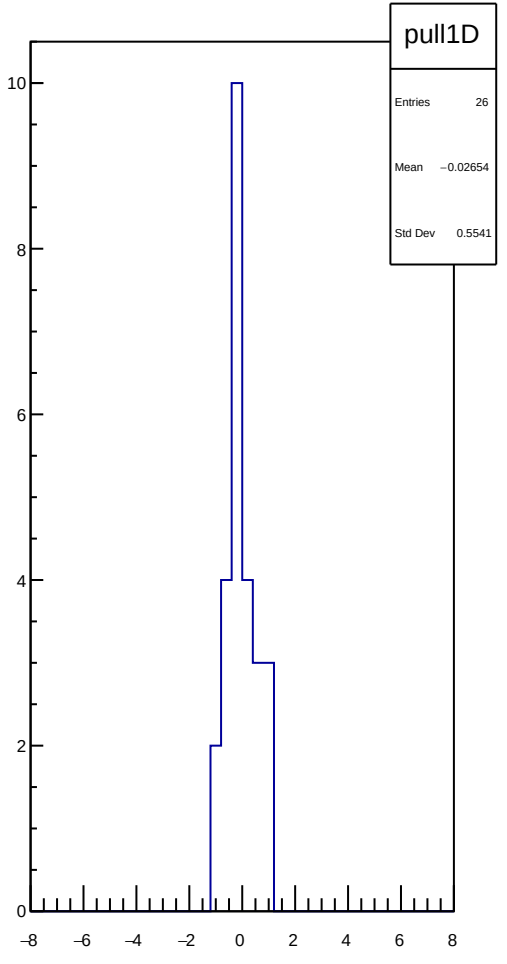

asym_bcm_an_ds3_rms vs run
χ² / ndf 424.8 / 25
p0 324.3 ± 0.451
350
345
340
335
330
325
320
315
310
305
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

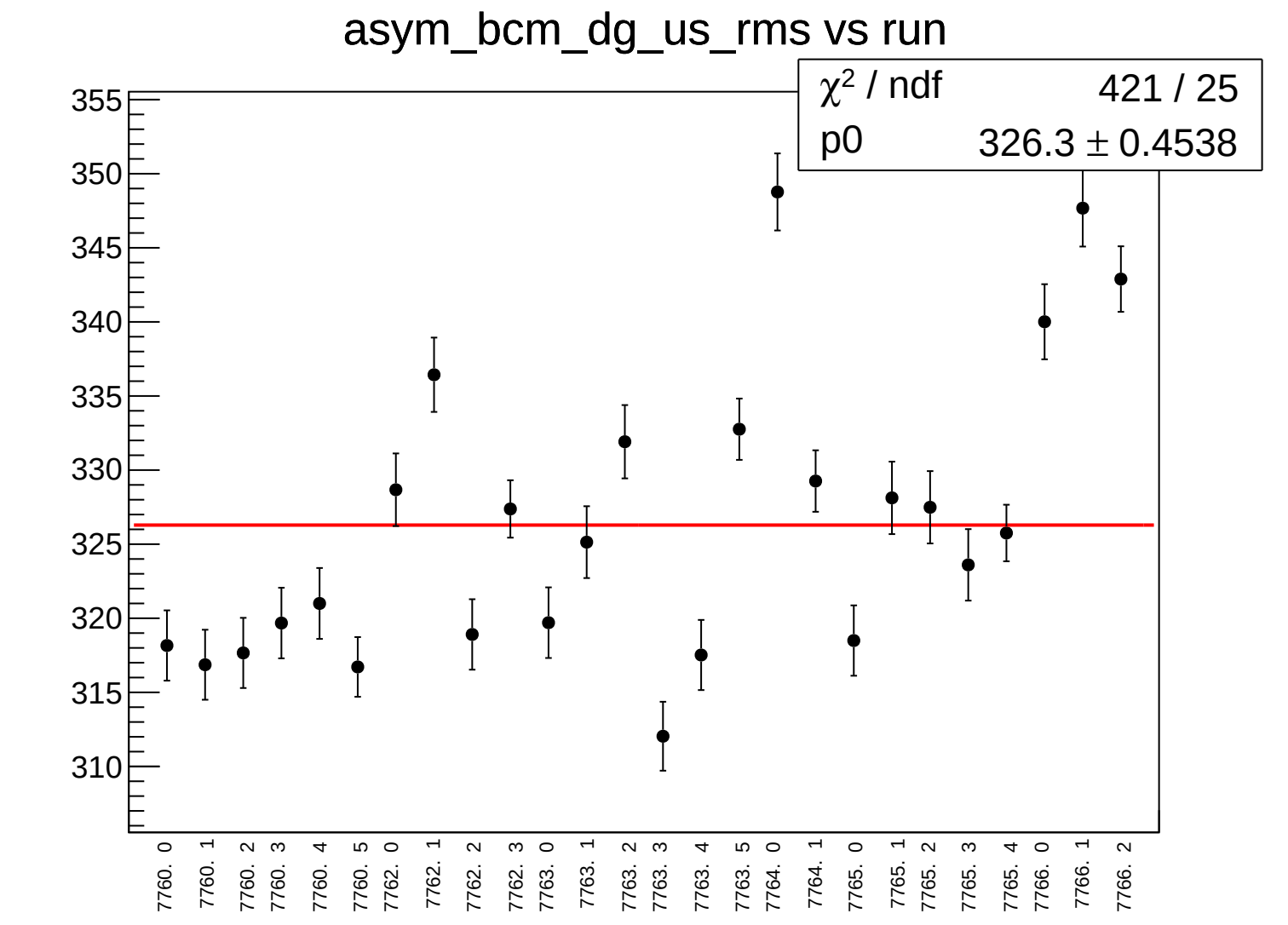

asym_bcm_an_us_mean vs run
χ² / ndf 7.058 / 25
p0 498.3 ± 637.8
6000
4000
2000
0
−2000
−4000
−6000
−8000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 4.852
Std Dev 10.67
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

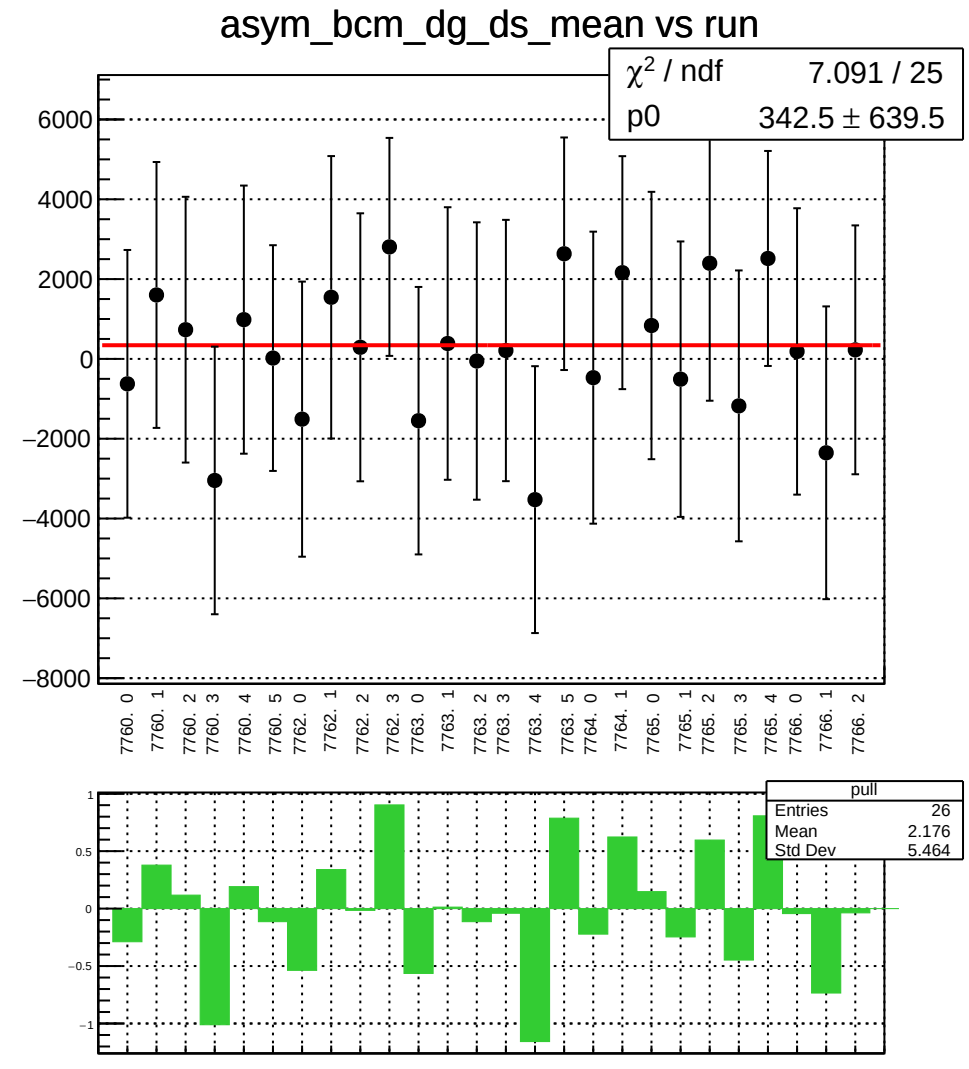

pull1D
Entries 26
Mean −0.02531
Std Dev 0.5204
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

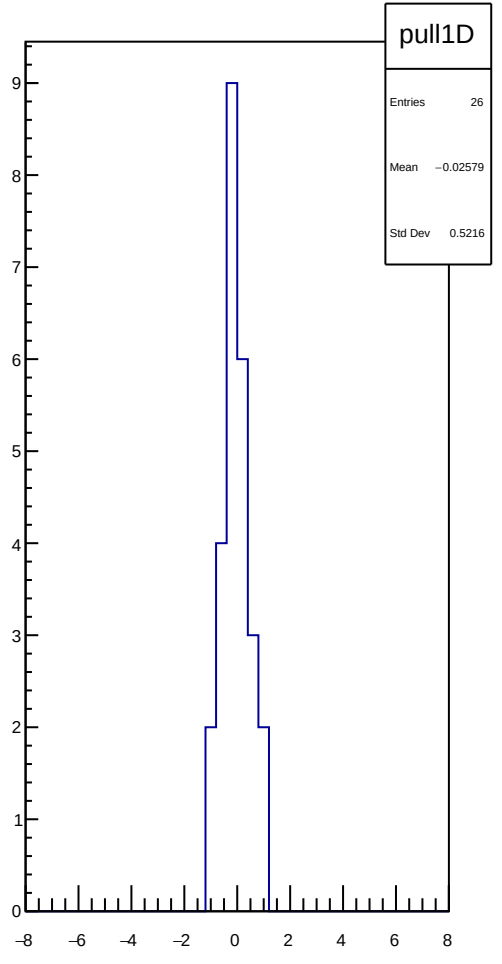

asym_bcm_an_us_rms vs run
χ² / ndf 434.9 / 25
p0 324.3 ± 0.451
350
345
340
335
330
325
320
315
310
305
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

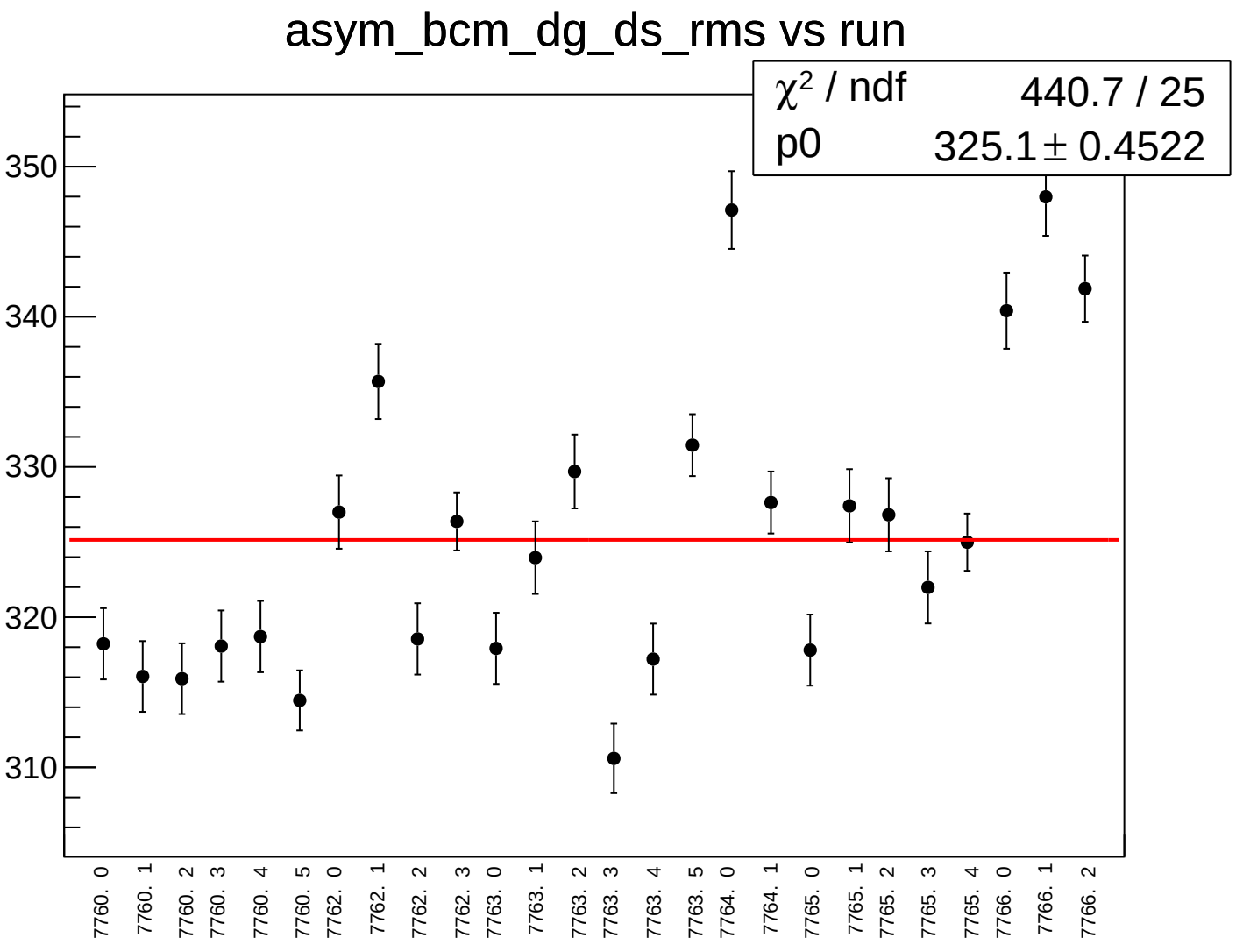

asym_bcm_dg_us_mean vs run
χ² / ndf 8.002 / 25
p0 447.8 ± 641.7
6000
4000
2000
0
−2000
−4000
−6000
−8000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −0.4677
Std Dev 3.952
1
0.5
0
−0.5
−1

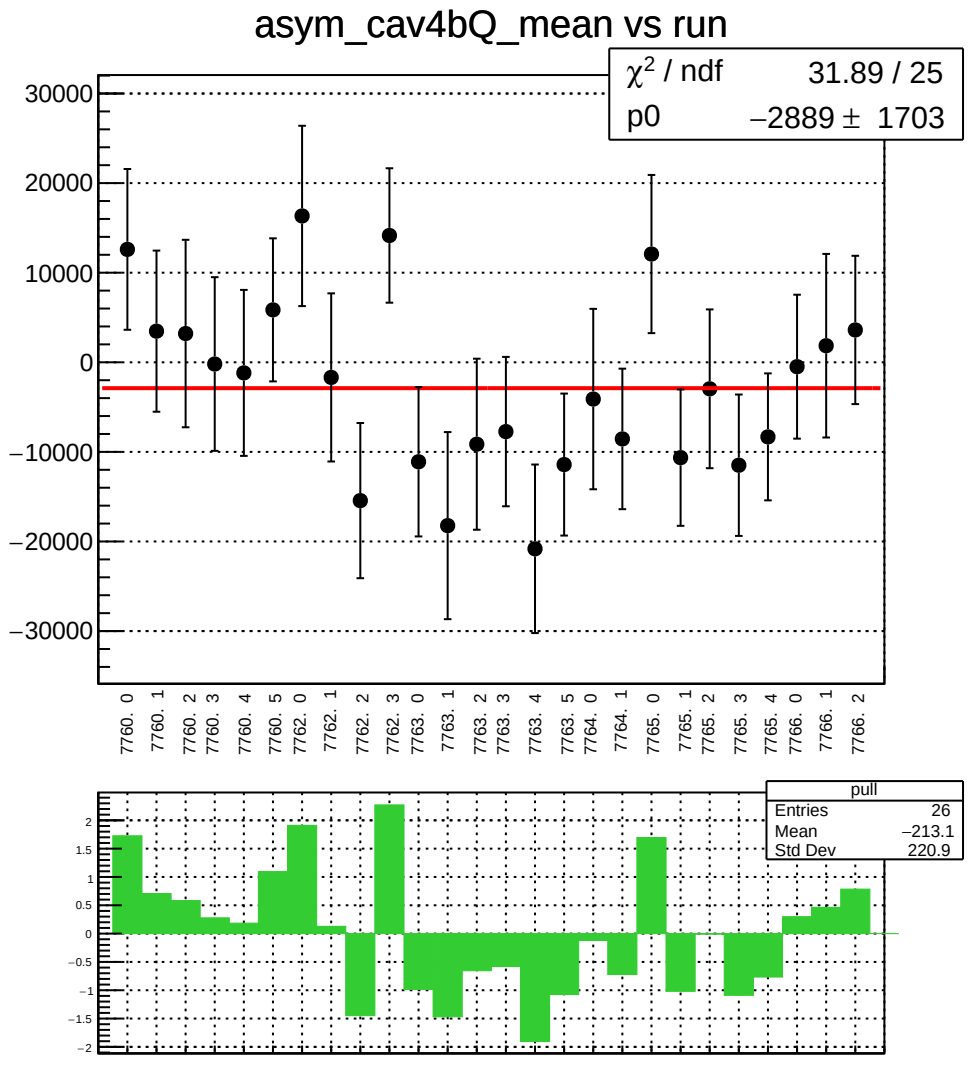

pull1D
Entries 26
Mean −0.02654
Std Dev 0.5541
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

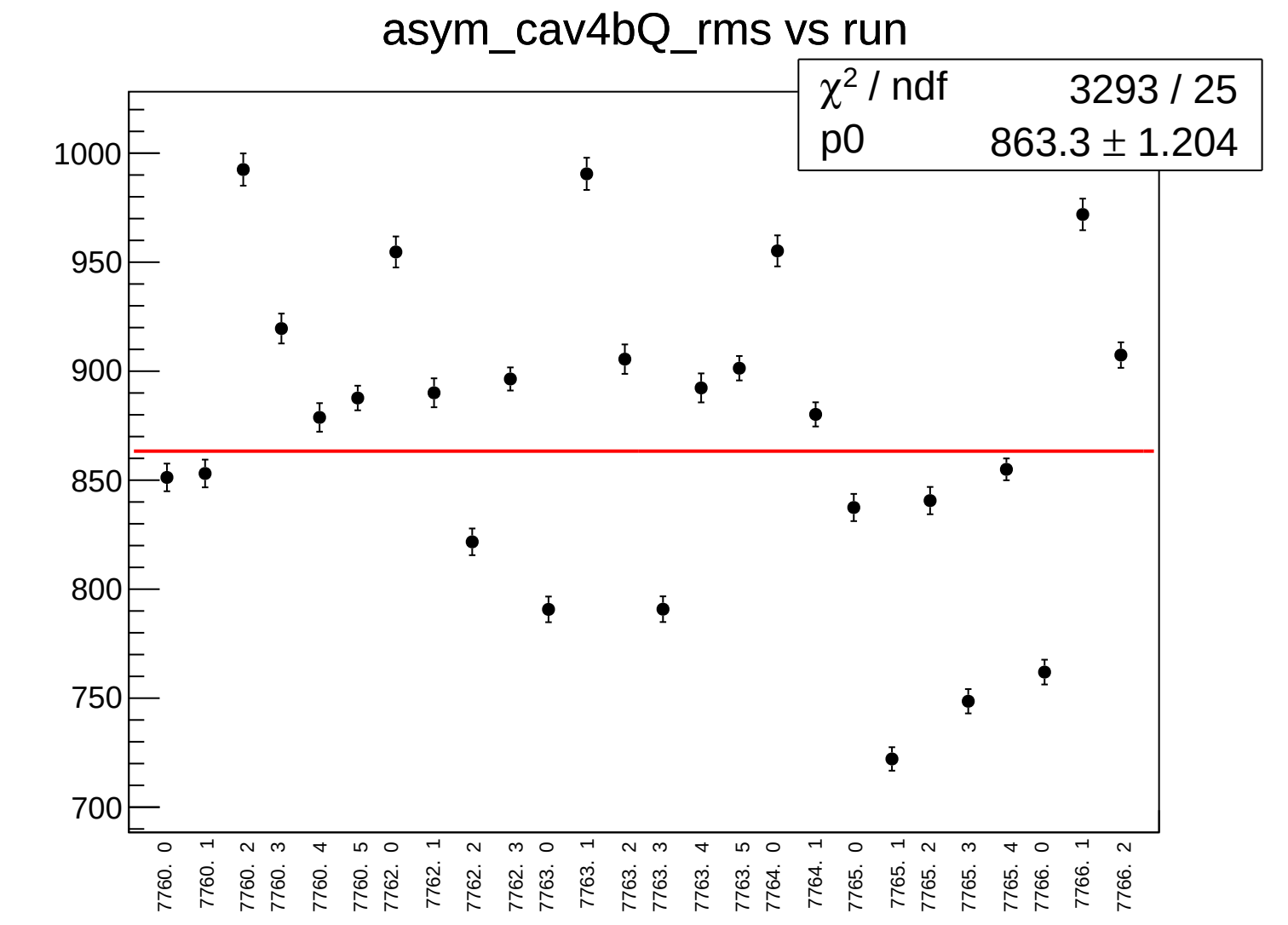

asym_bcm_dg_us_rms vs run
χ² / ndf 421 / 25
p0 326.3 ± 0.4538
355
350
345
340
335
330
325
320
315
310
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

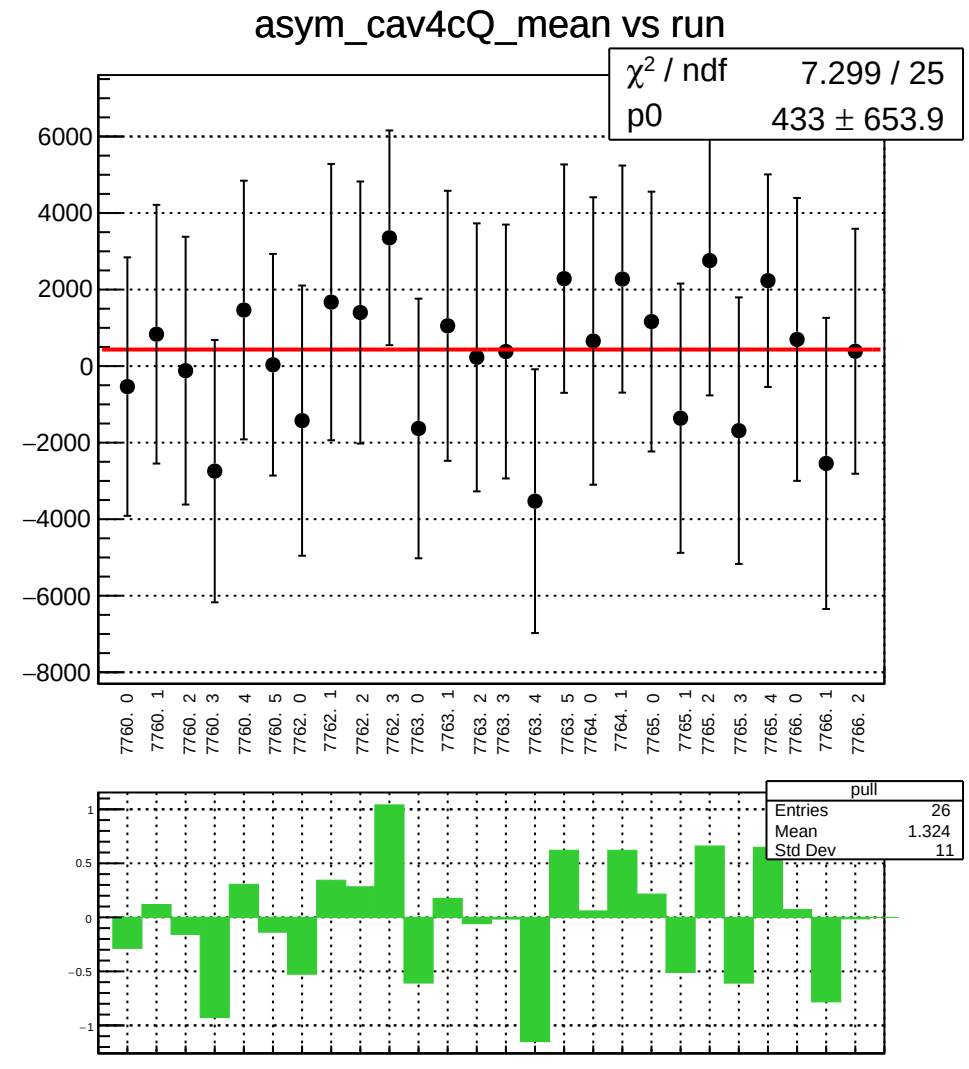

asym_bcm_dg_ds_mean vs run
χ² / ndf 7.091 / 25
p0 342.5 ± 639.5
6000
4000
2000
0
−2000
−4000
−6000
−8000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 2.176
Std Dev 5.464
1
0.5
0
−0.5
−1

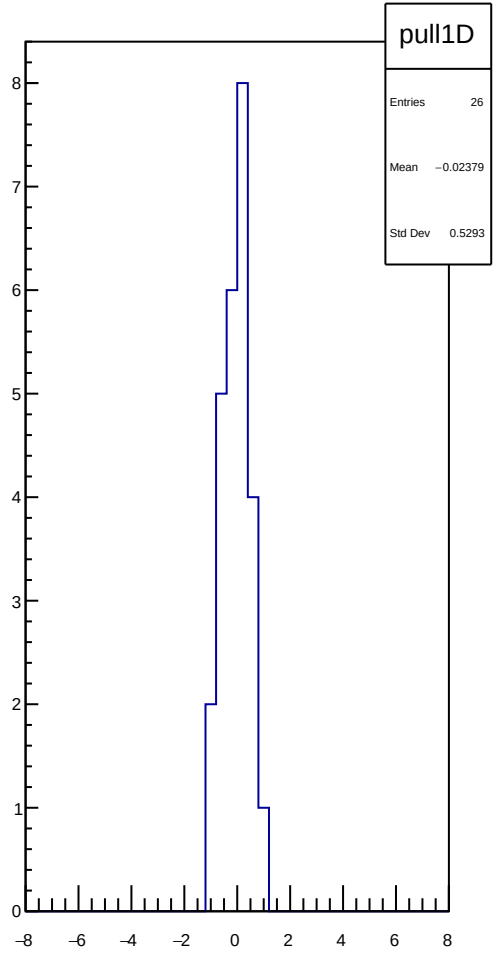

pull1D
Entries 26
Mean −0.02579
Std Dev 0.5216
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

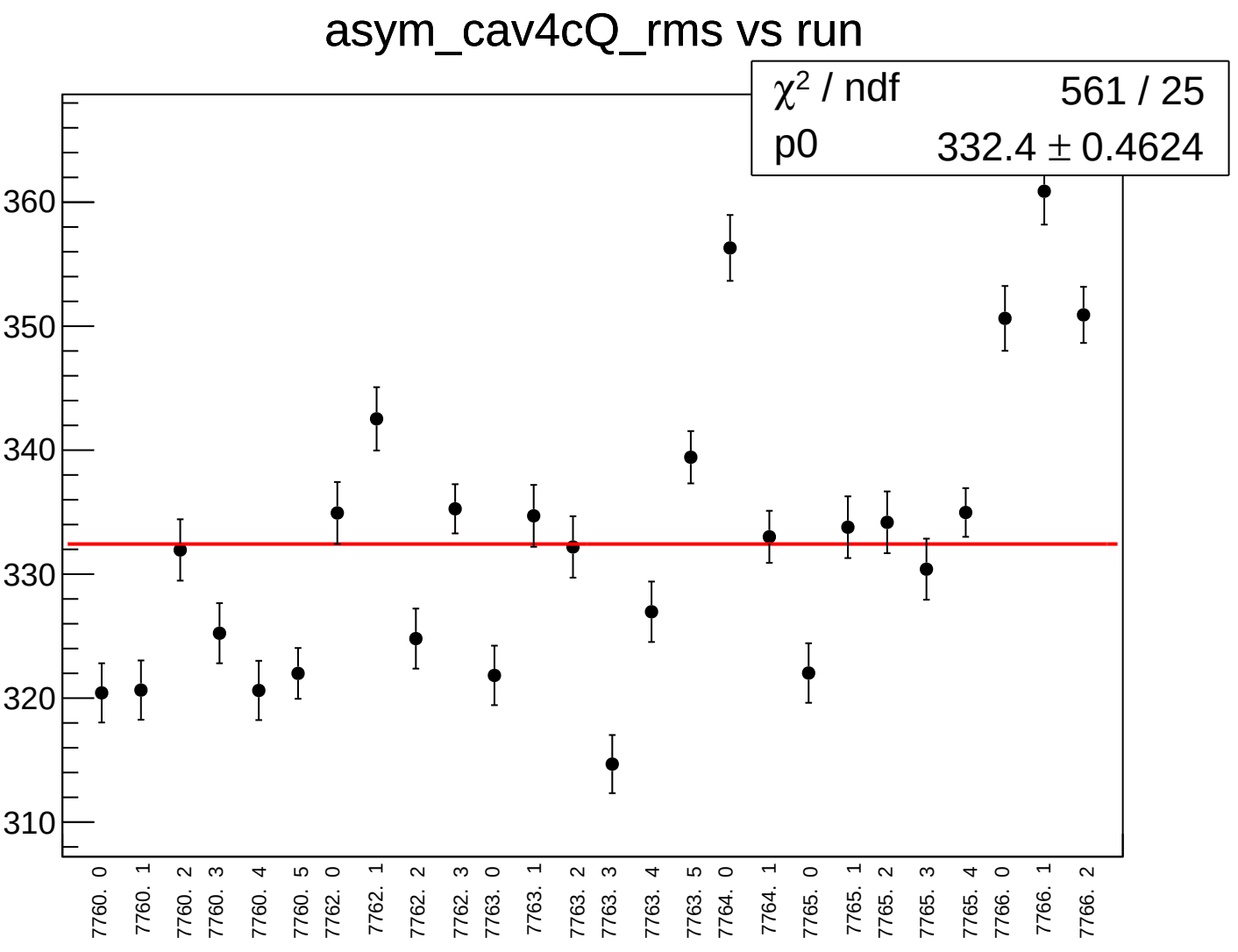

asym_bcm_dg_ds_rms vs run
χ² / ndf 440.7 / 25
p0 325.1 ± 0.4522
350
340
330
320
310
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

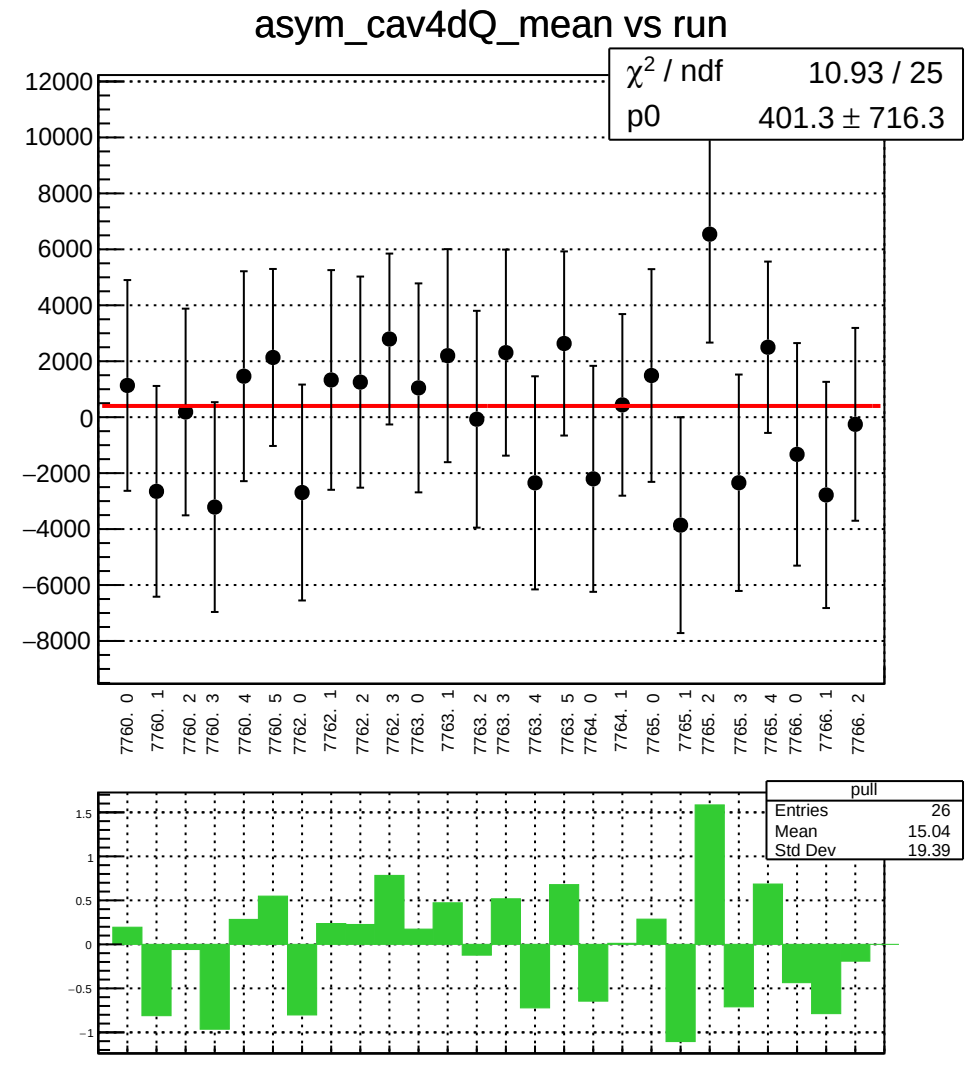

asym_cav4bQ_mean vs run
χ² / ndf 31.89 / 25
p0 −2889 ± 1703
30000
20000
10000
0
−10000
−20000
−30000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −213.1
Std Dev 220.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 26
Mean 0.01071
Std Dev 1.107
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

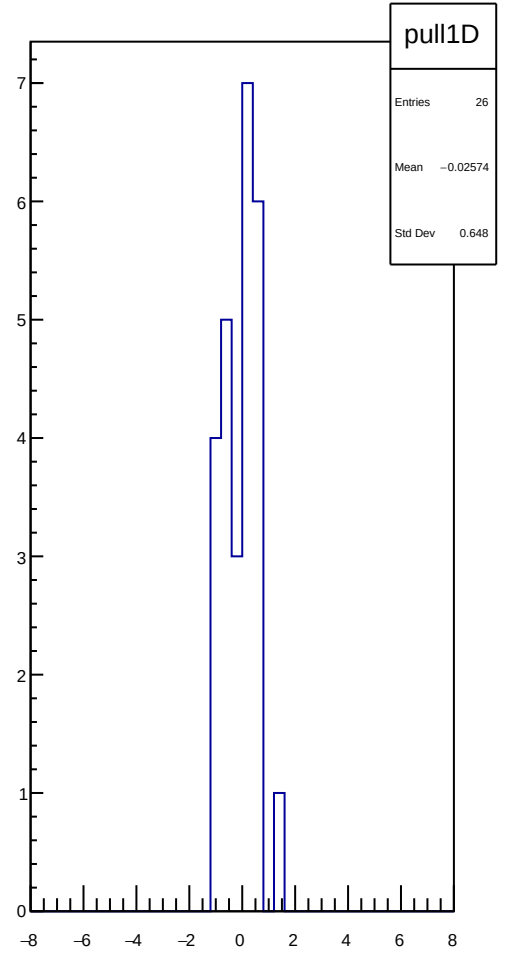

asym_cav4bQ_rms vs run
χ² / ndf 3293 / 25
p0 863.3 ± 1.204
1000
950
900
850
800
750
700
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

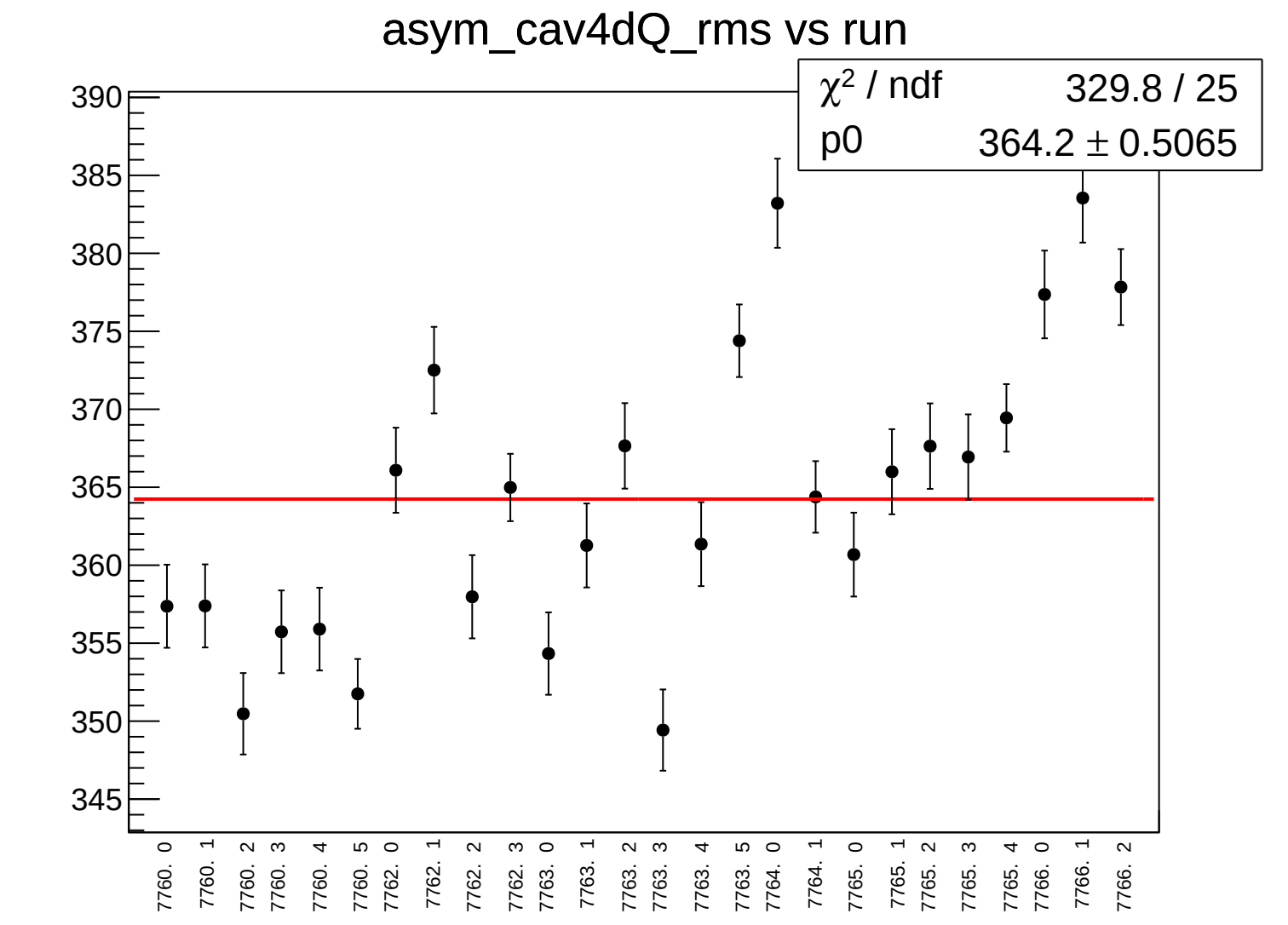

asym_cav4cQ_mean vs run
χ² / ndf 7.299 / 25
p0 433 ± 653.9
6000
4000
2000
0
−2000
−4000
−6000
−8000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 1.324
Std Dev 11
1
0.5
0
−0.5
−1

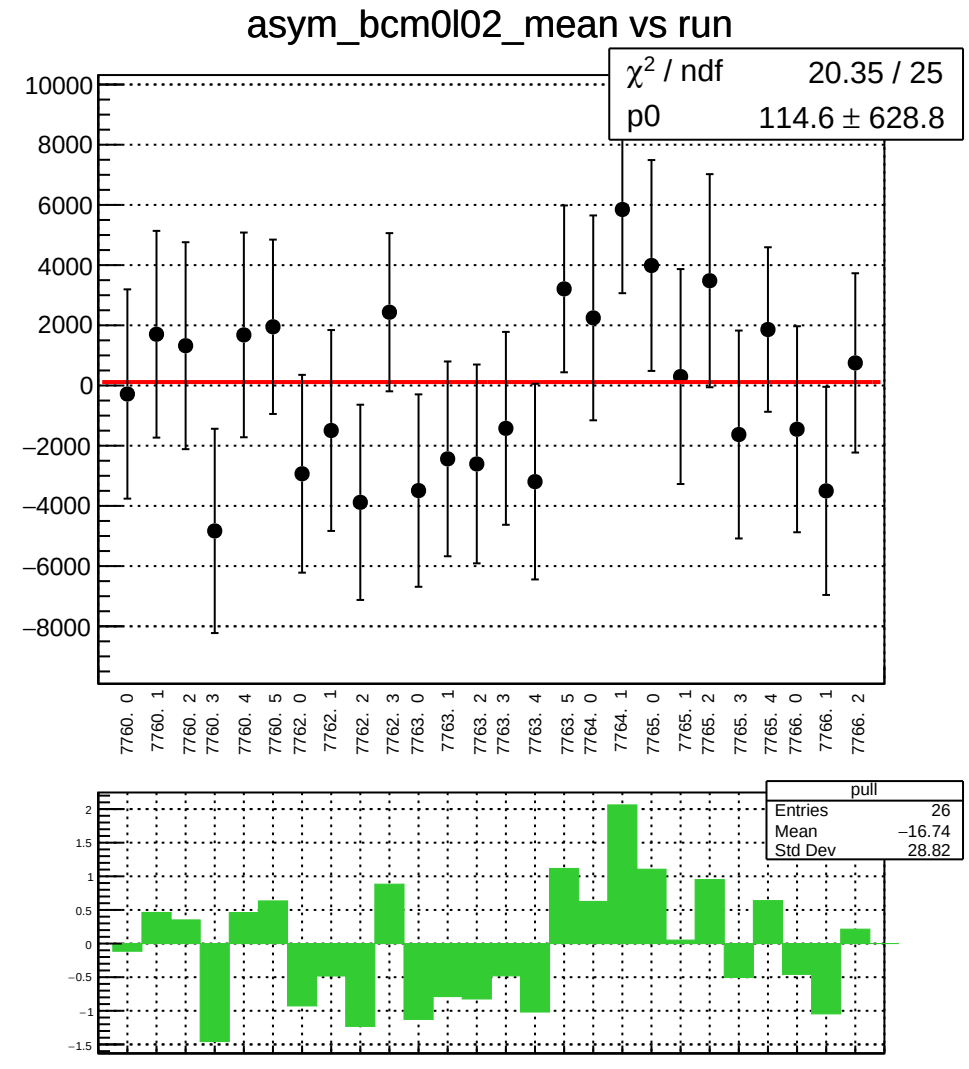

pull1D
Entries 26
Mean −0.02379
Std Dev 0.5293
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

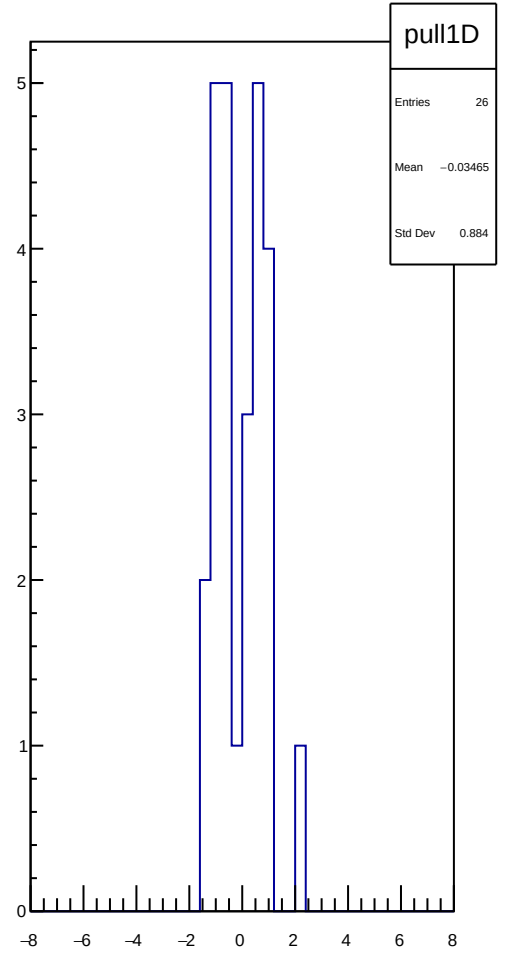

asym_cav4cQ_rms vs run
χ² / ndf 561 / 25
p0 332.4 ± 0.4624
360
350
340
330
320
310
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

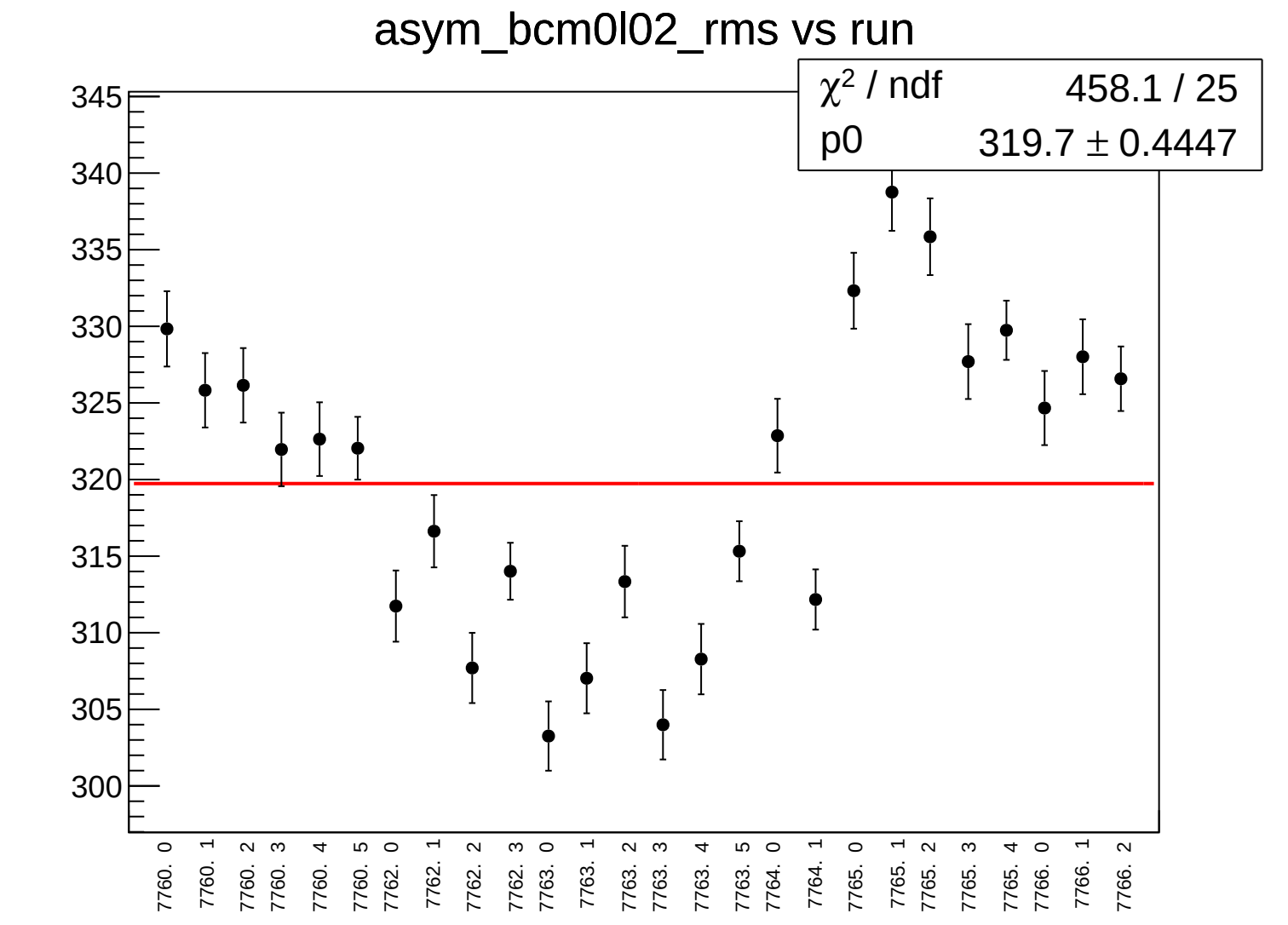

asym_cav4dQ_mean vs run
χ² / ndf 10.93 / 25
p0 401.3 ± 716.3
12000
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 15.04
Std Dev 19.39
1.5
1
0.5
0
−0.5
−1

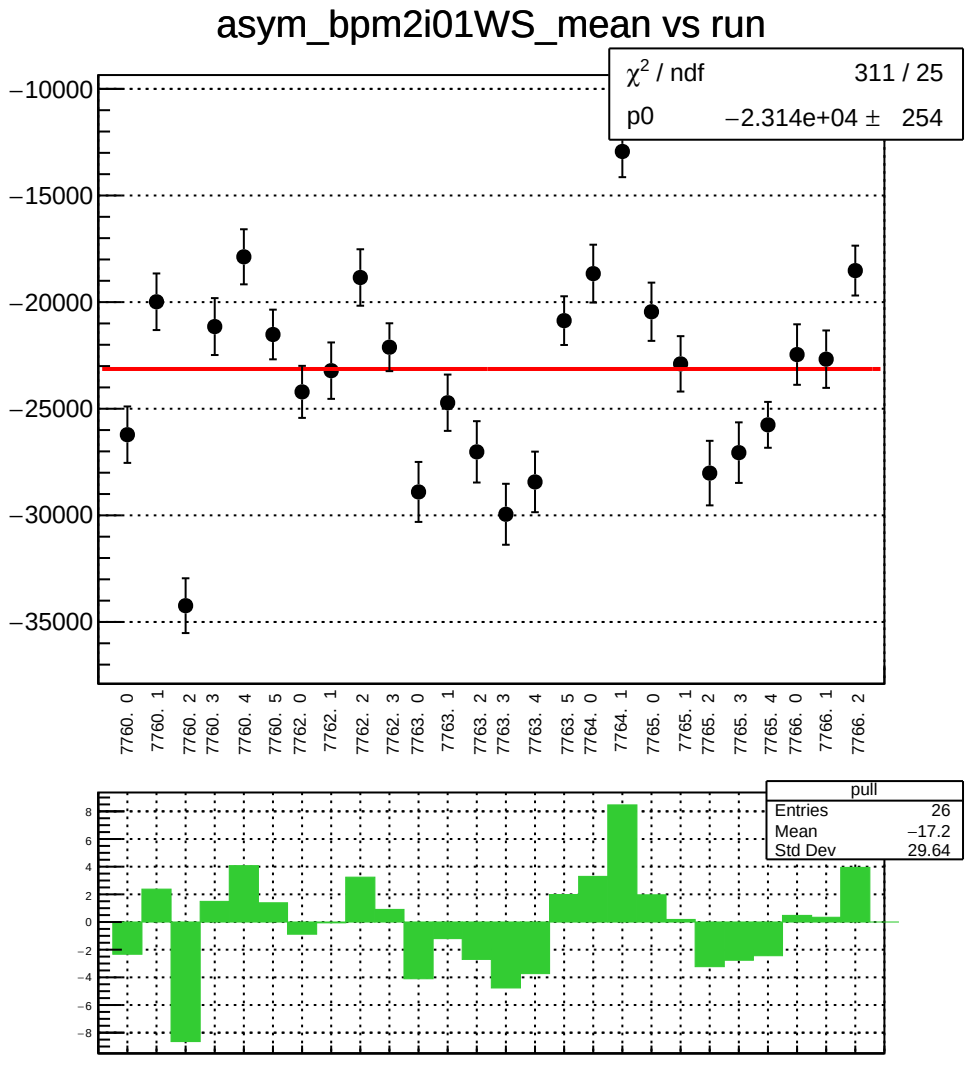

pull1D
Entries 26
Mean −0.02574
Std Dev 0.648
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

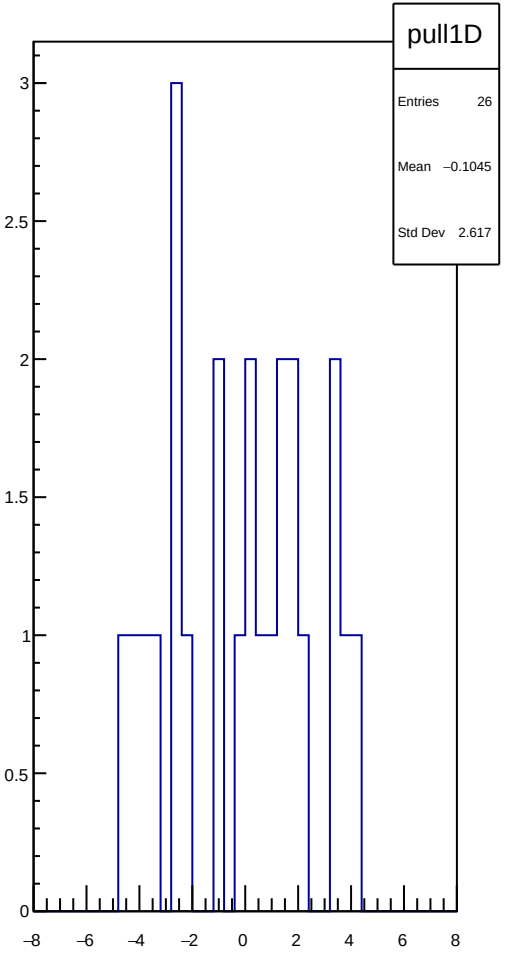

asym_cav4dQ_rms vs run
χ² / ndf 329.8 / 25
p0 364.2 ± 0.5065
390
385
380
375
370
365
360
355
350
345
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

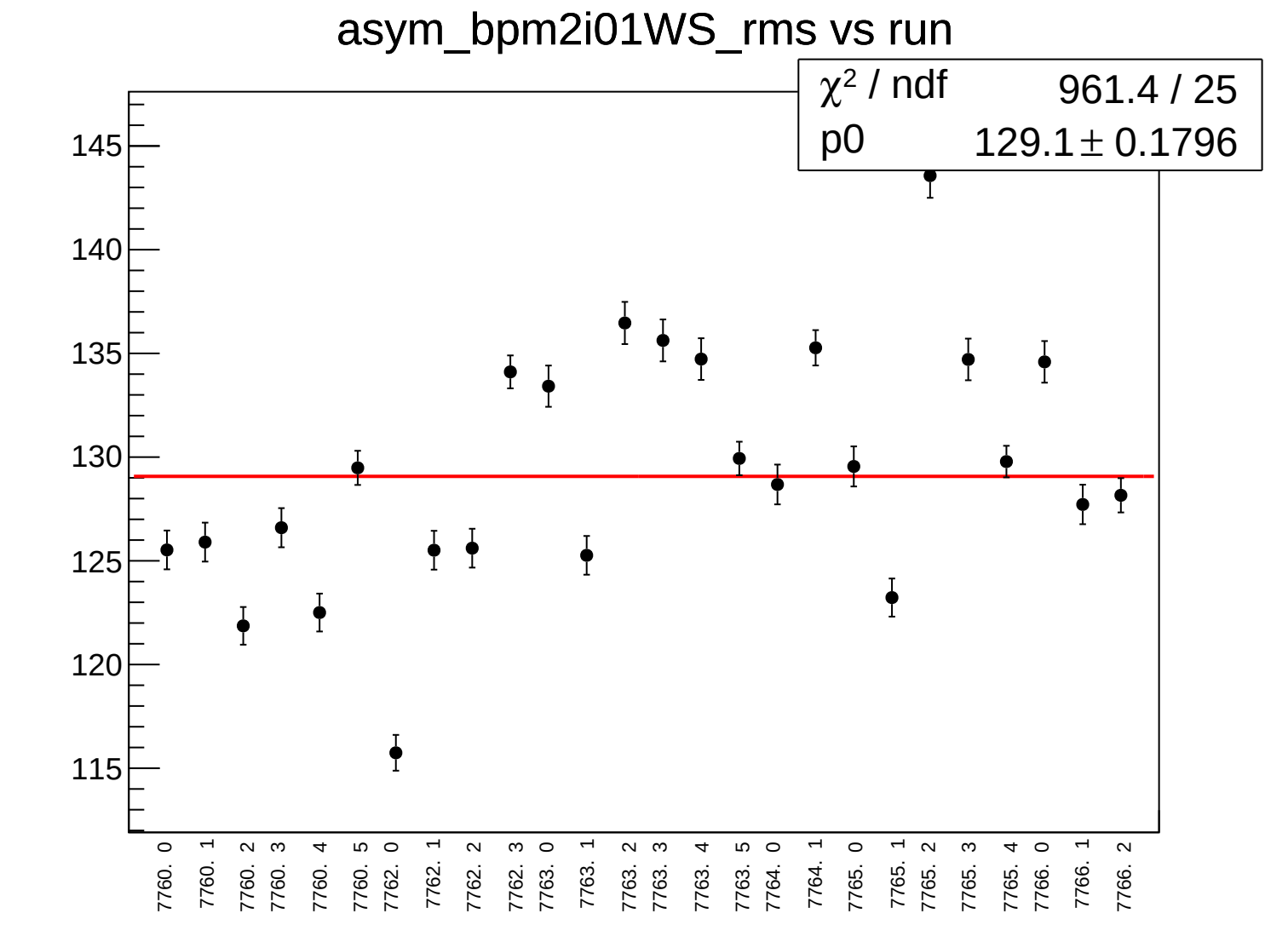

asym_bcm0l02_mean vs run
χ² / ndf 20.35 / 25
p0 114.6 ± 628.8
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −16.74
Std Dev 28.82
2
1.5
1
0.5
0
−0.5
−1
−1.5

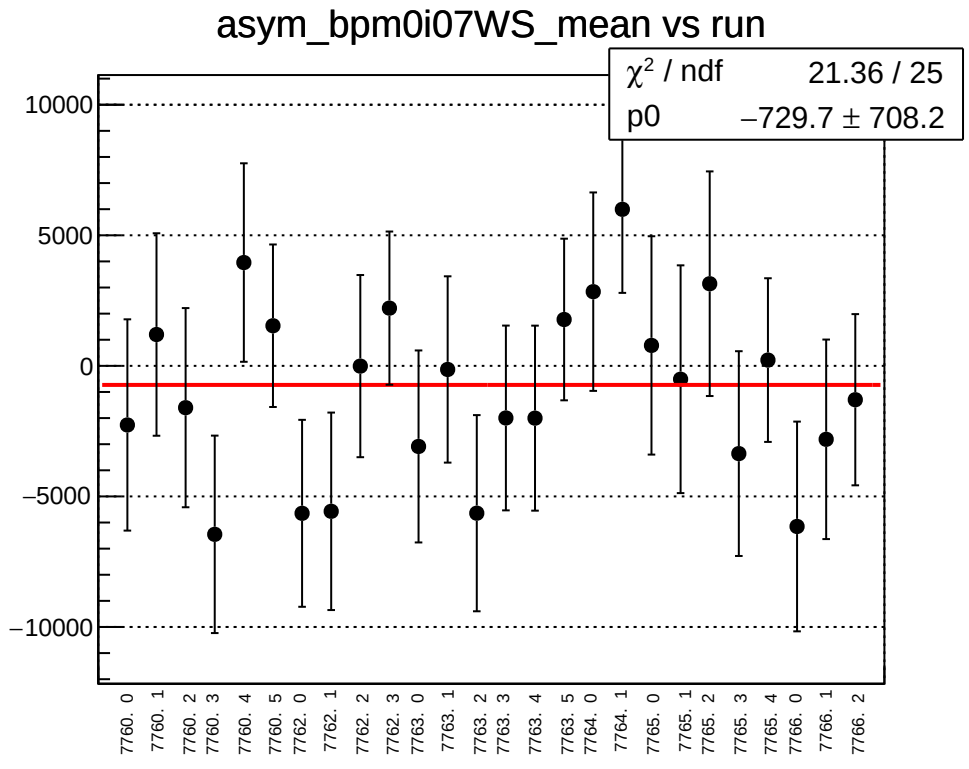

pull1D
Entries 26
Mean −0.03465
Std Dev 0.884
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

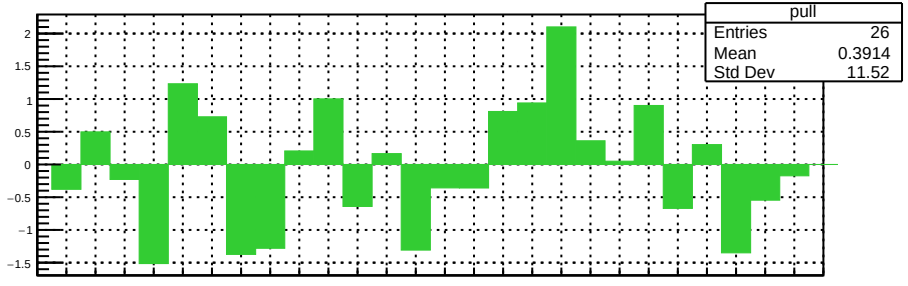

asym_bcm0l02_rms vs run
χ² / ndf 458.1 / 25
p0 319.7 ± 0.4447
345
340
335
330
325
320
315
310
305
300
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

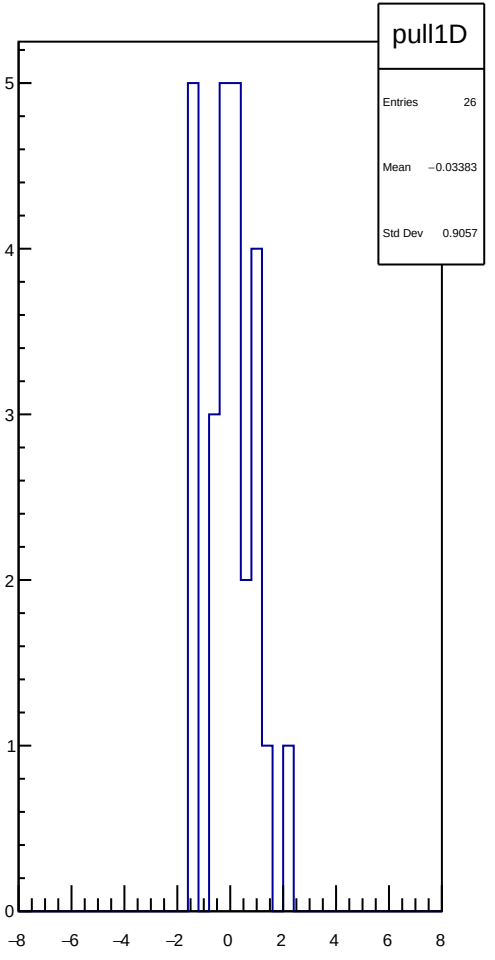

asym_bpm2i01WS_mean vs run
χ² / ndf 311 / 25
p0 −2.314e+04 ± 254
−10000
−15000
−20000
−25000
−30000
−35000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −17.2
Std Dev 29.64
8
6
4
2
0
−2
−4
−6
−8

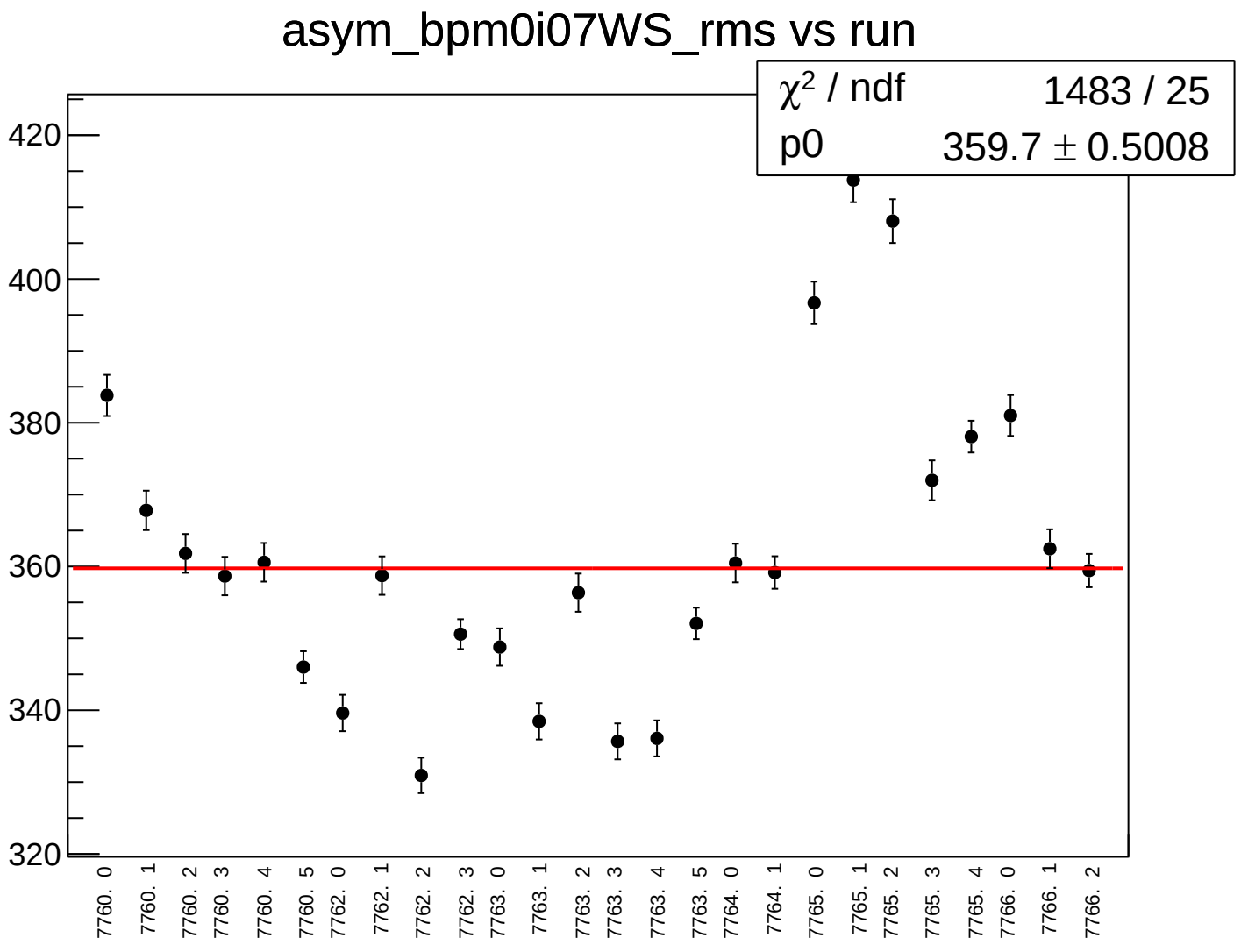

pull1D
Entries 26
Mean −0.1045
Std Dev 2.617
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

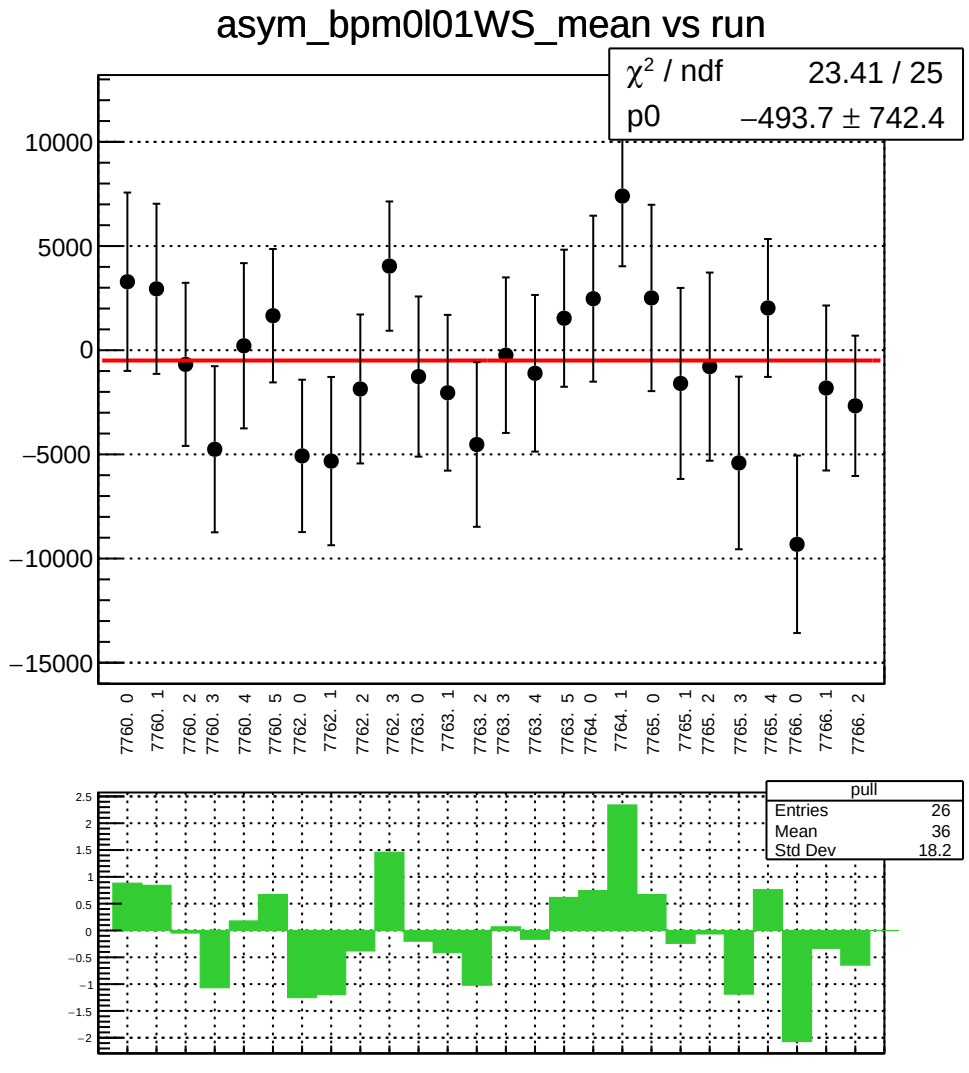

asym_bpm2i01WS_rms vs run
χ² / ndf 961.4 / 25
p0 129.1 ± 0.1796
145
140
135
130
125
120
115
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

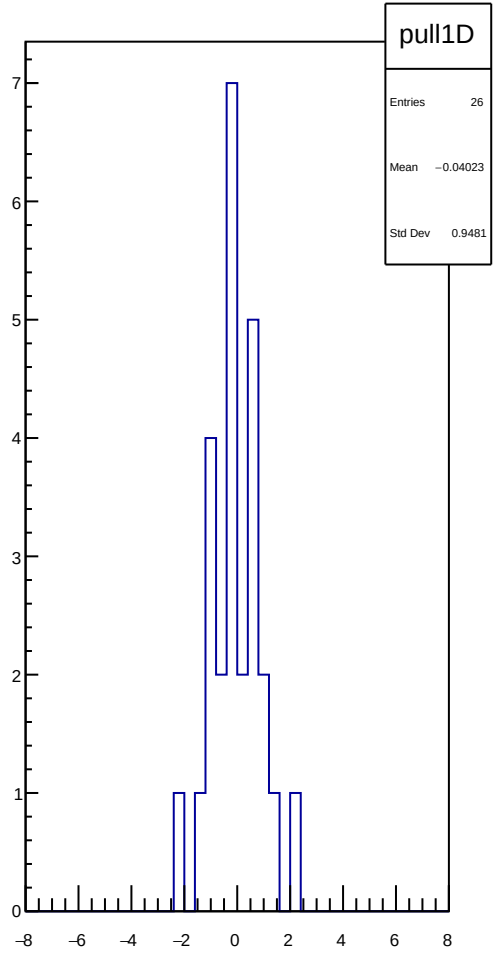

asym_bpm0i07WS_mean vs run
χ² / ndf 21.36 / 25
p0 −729.7 ± 708.2
10000
5000
0
−5000
−10000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

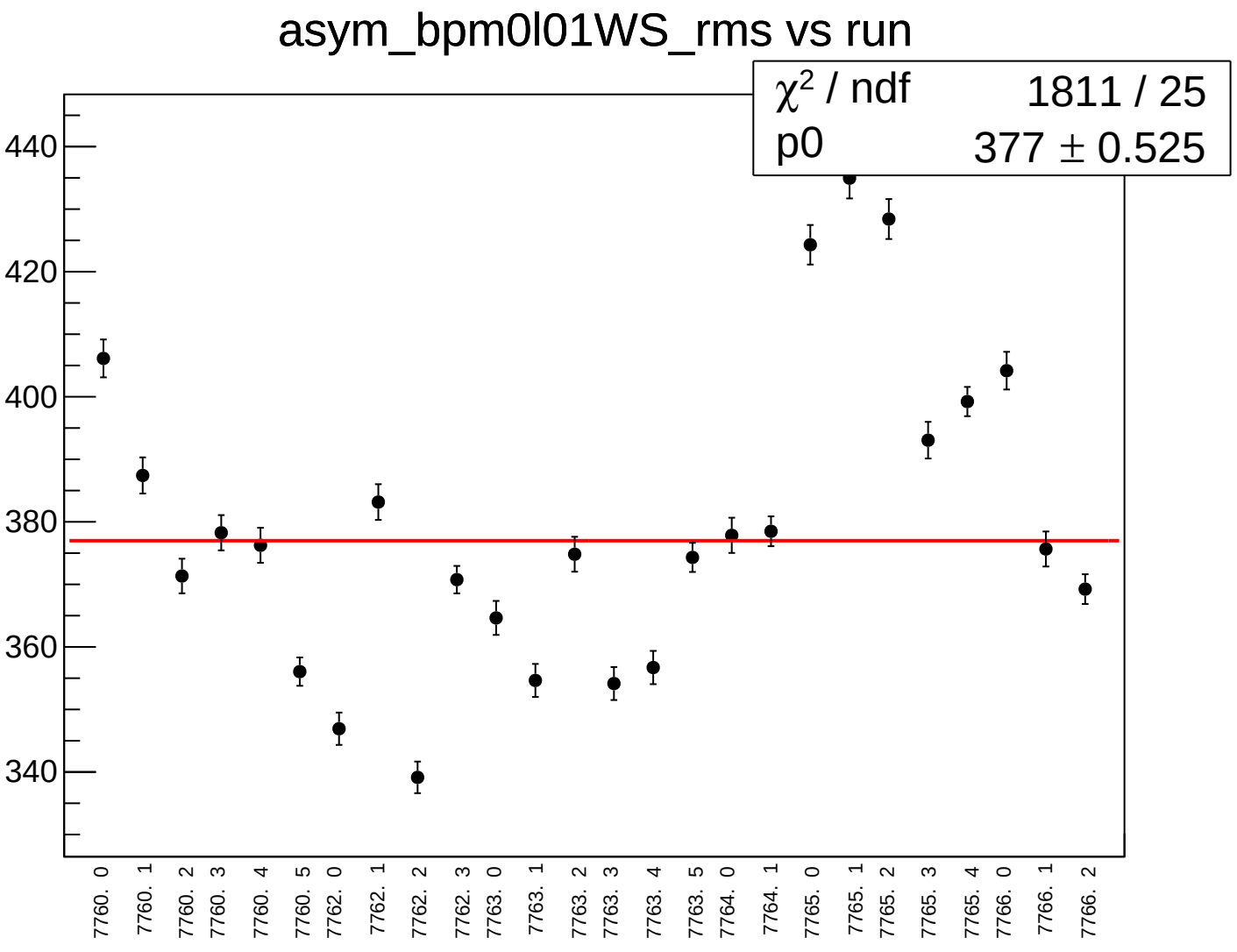

pull
Entries 26
Mean 0.3914
Std Dev 11.52
2
1.5
1
0.5
0
−0.5
−1
−1.5

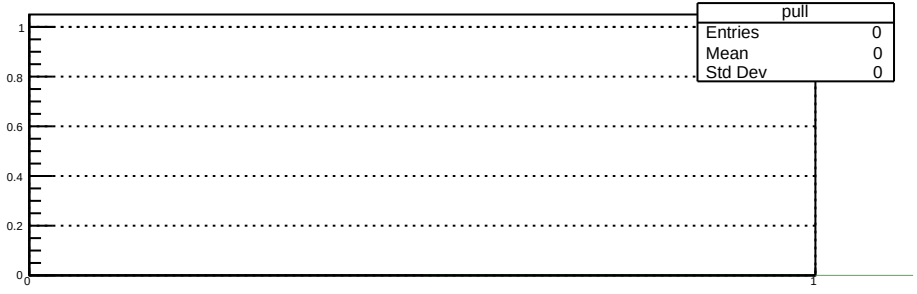

pull1D
Entries 26
Mean −0.03383
Std Dev 0.9057
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

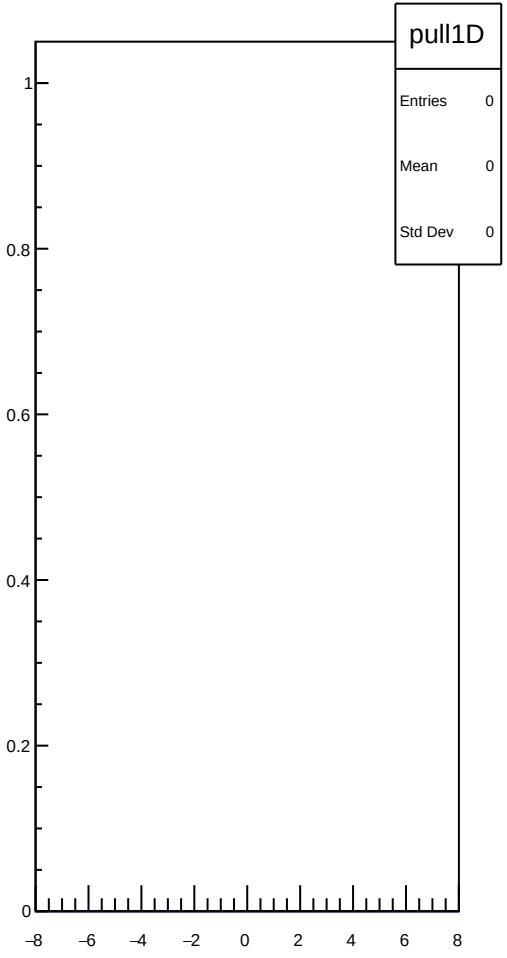

asym_bpm0i07WS_rms vs run
χ² / ndf 1483 / 25
p0 359.7 ± 0.5008
420
400
380
360
340
320
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

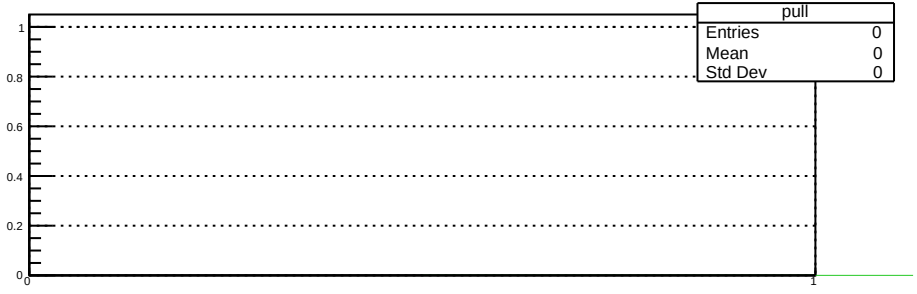

asym_bpm0l01WS_mean vs run
χ² / ndf 23.41 / 25
p0 −493.7 ± 742.4
10000
5000
0
−5000
−10000
−15000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 36
Std Dev 18.2
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

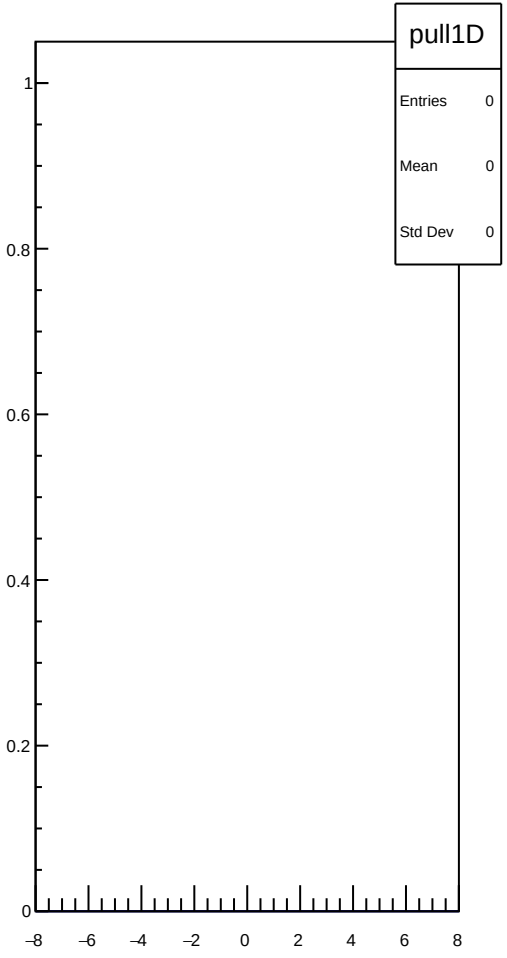

pull1D
Entries 26
Mean −0.04023
Std Dev 0.9481
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

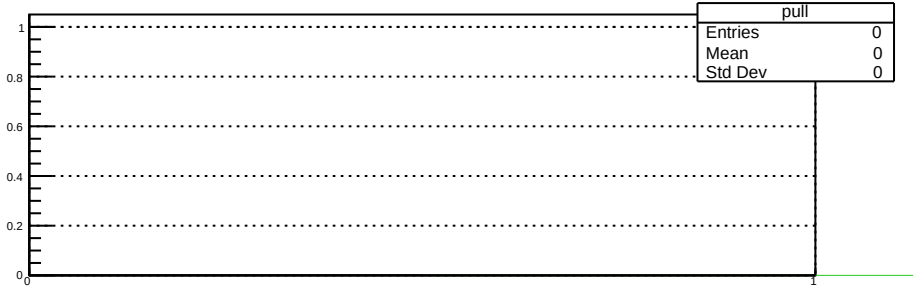

asym_bpm0l01WS_rms vs run
χ² / ndf 1811 / 25
p0 377 ± 0.525
440
420
400
380
360
340
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

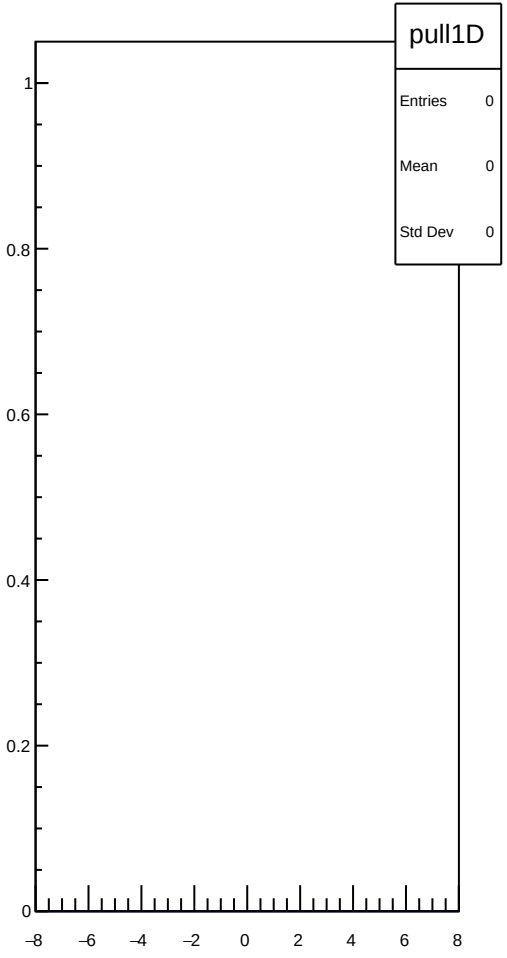

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

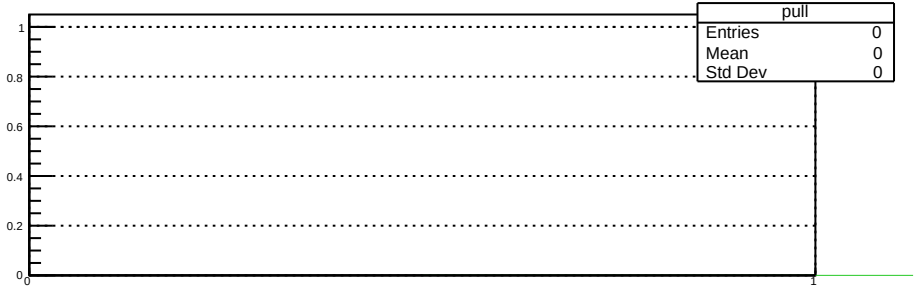

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

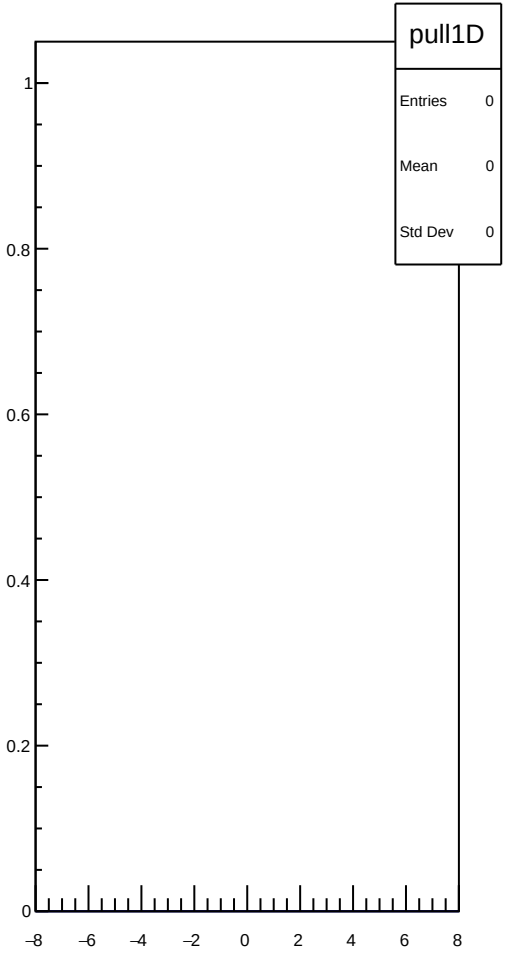

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

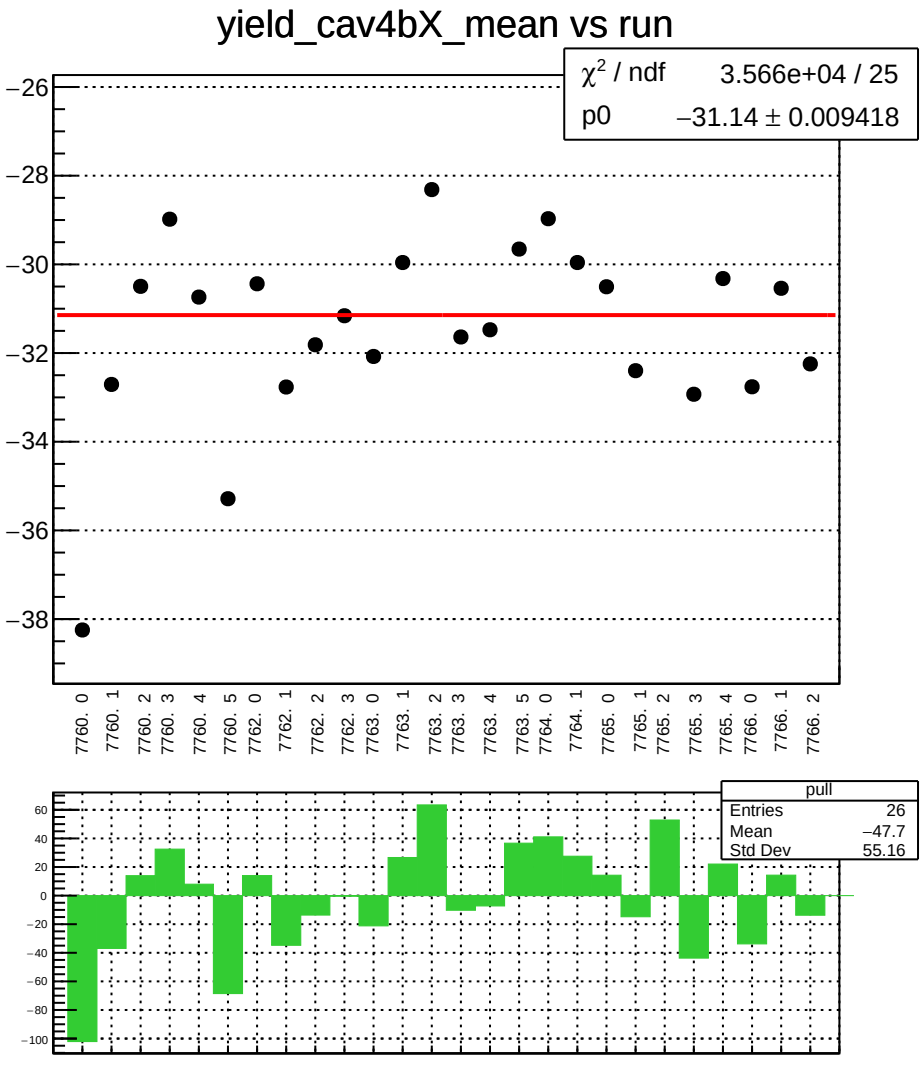

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

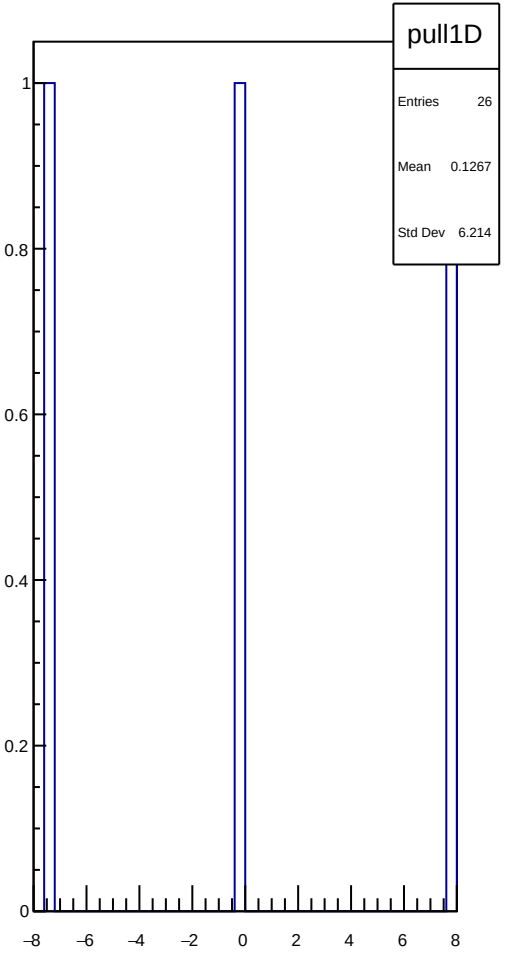

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

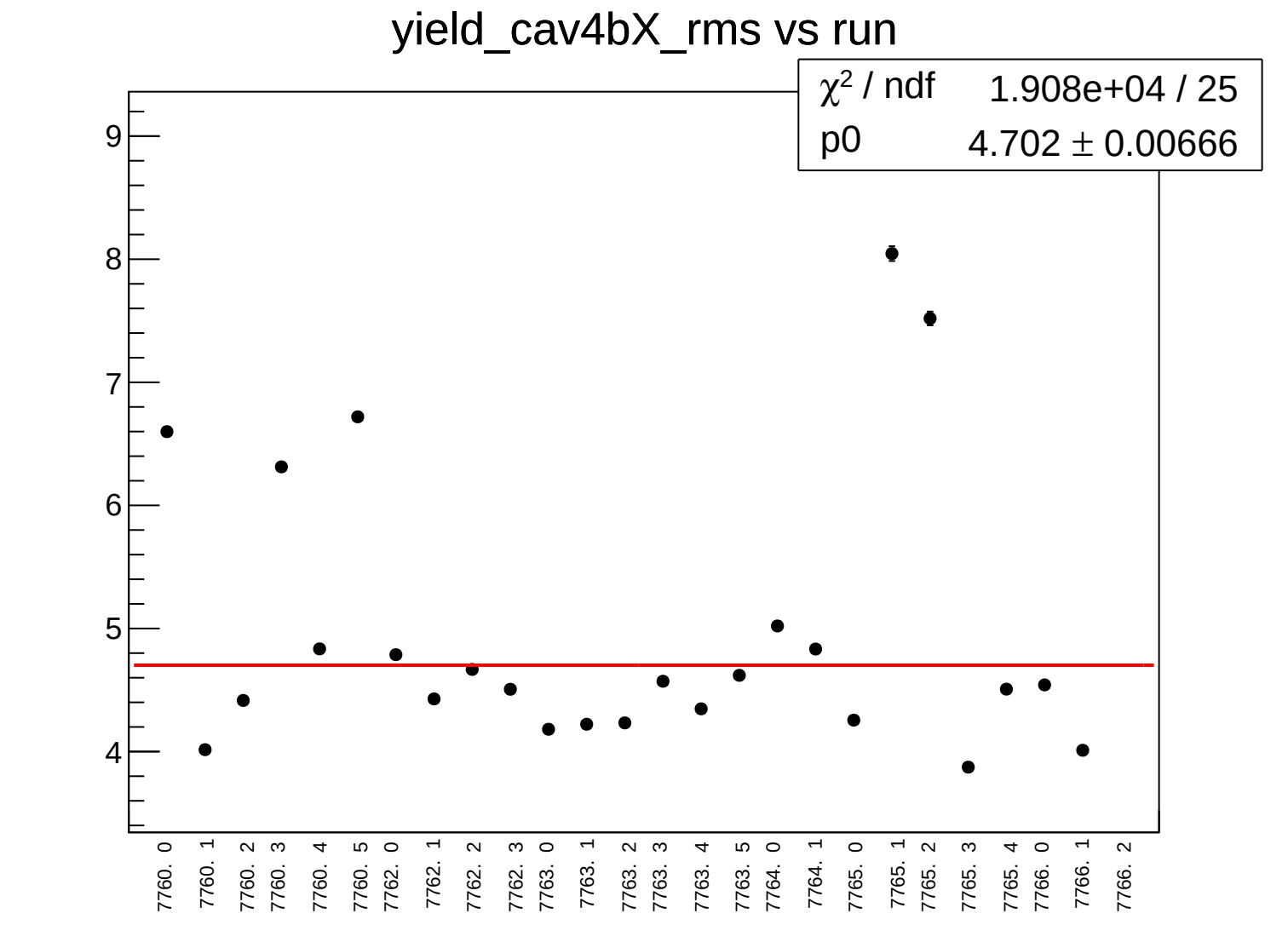

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

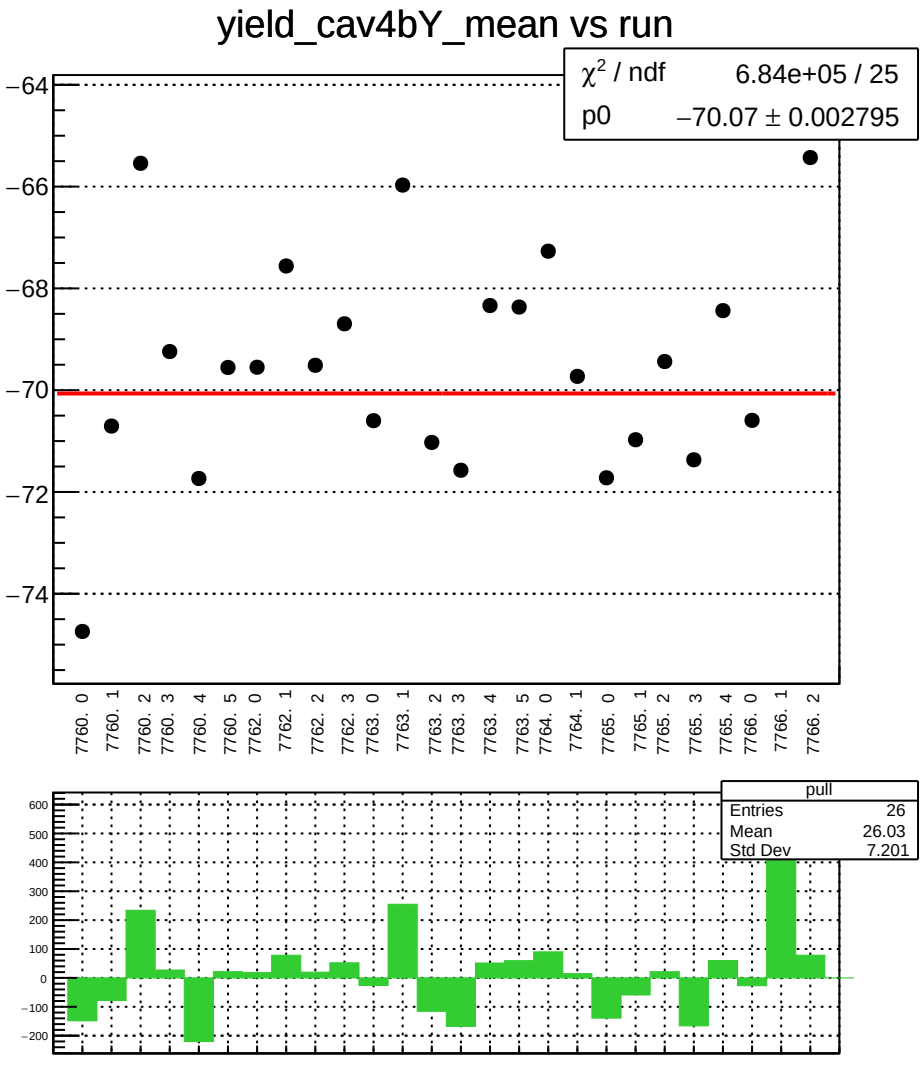

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

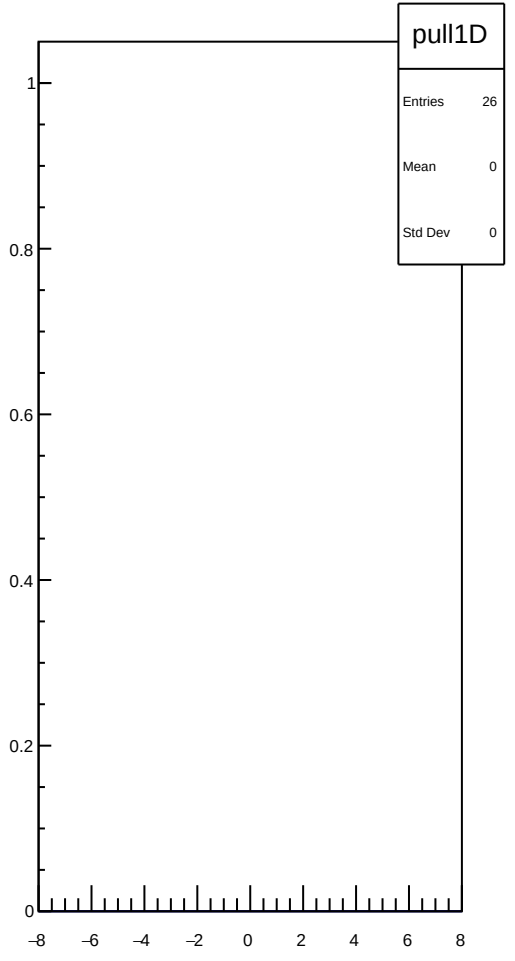

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

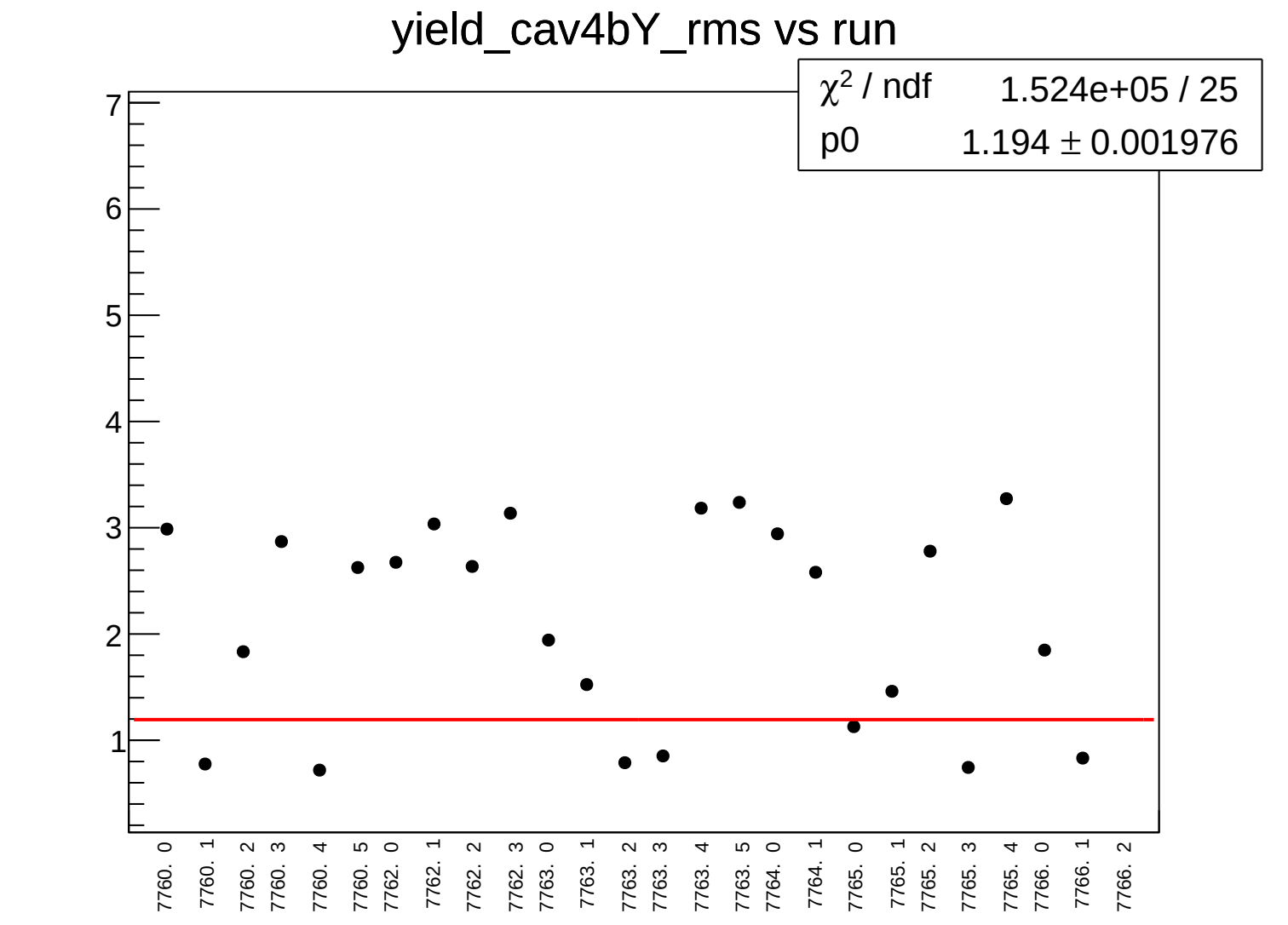

yield_cav4bX_mean vs run
χ² / ndf 3.566e+04 / 25
p0 −31.14 ± 0.009418
−26
−28
−30
−32
−34
−36
−38
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −47.7
Std Dev 55.16
60
40
20
0
−20
−40
−60
−80
−100

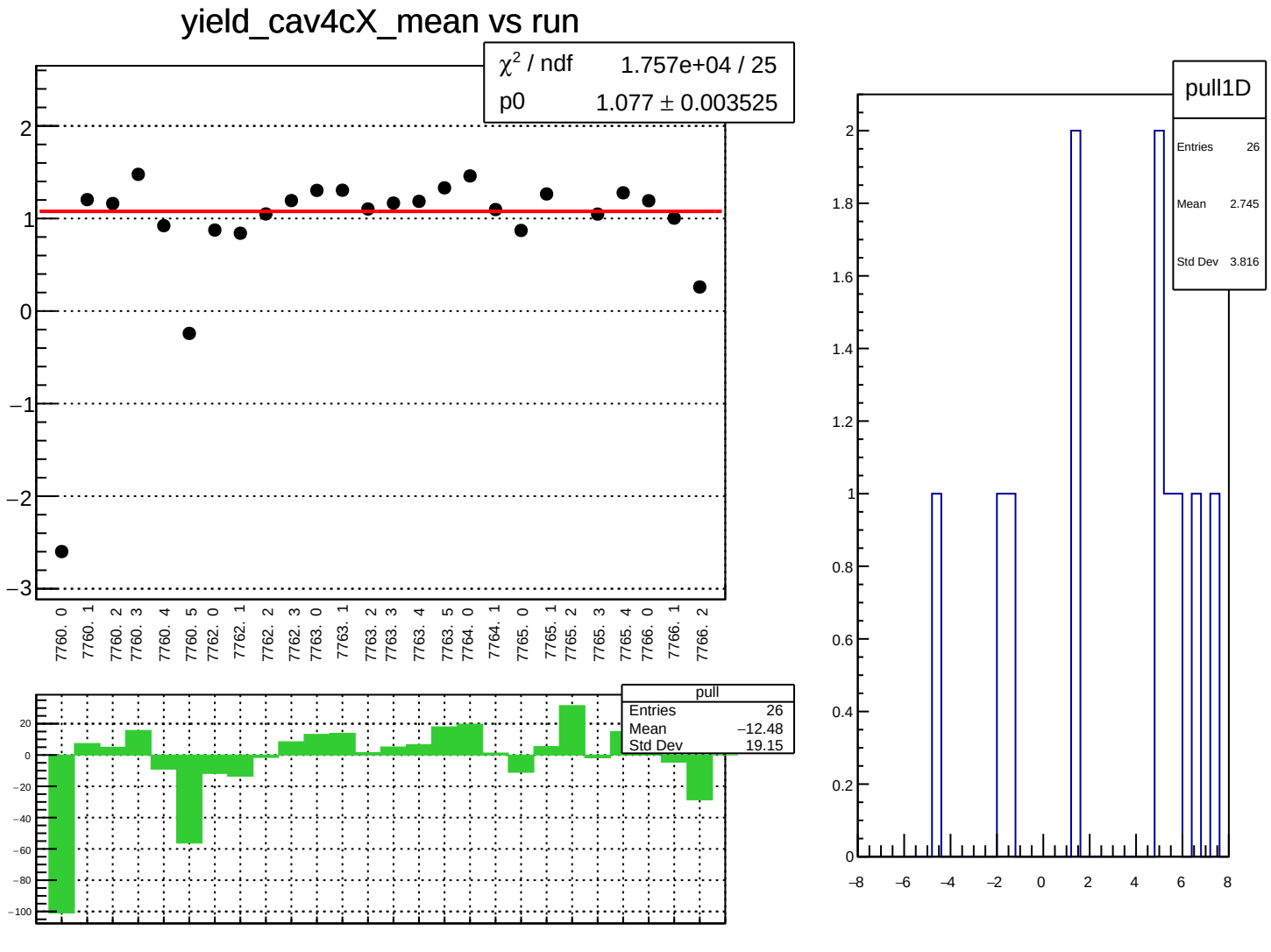

pull1D
Entries 26
Mean 0.1267
Std Dev 6.214
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

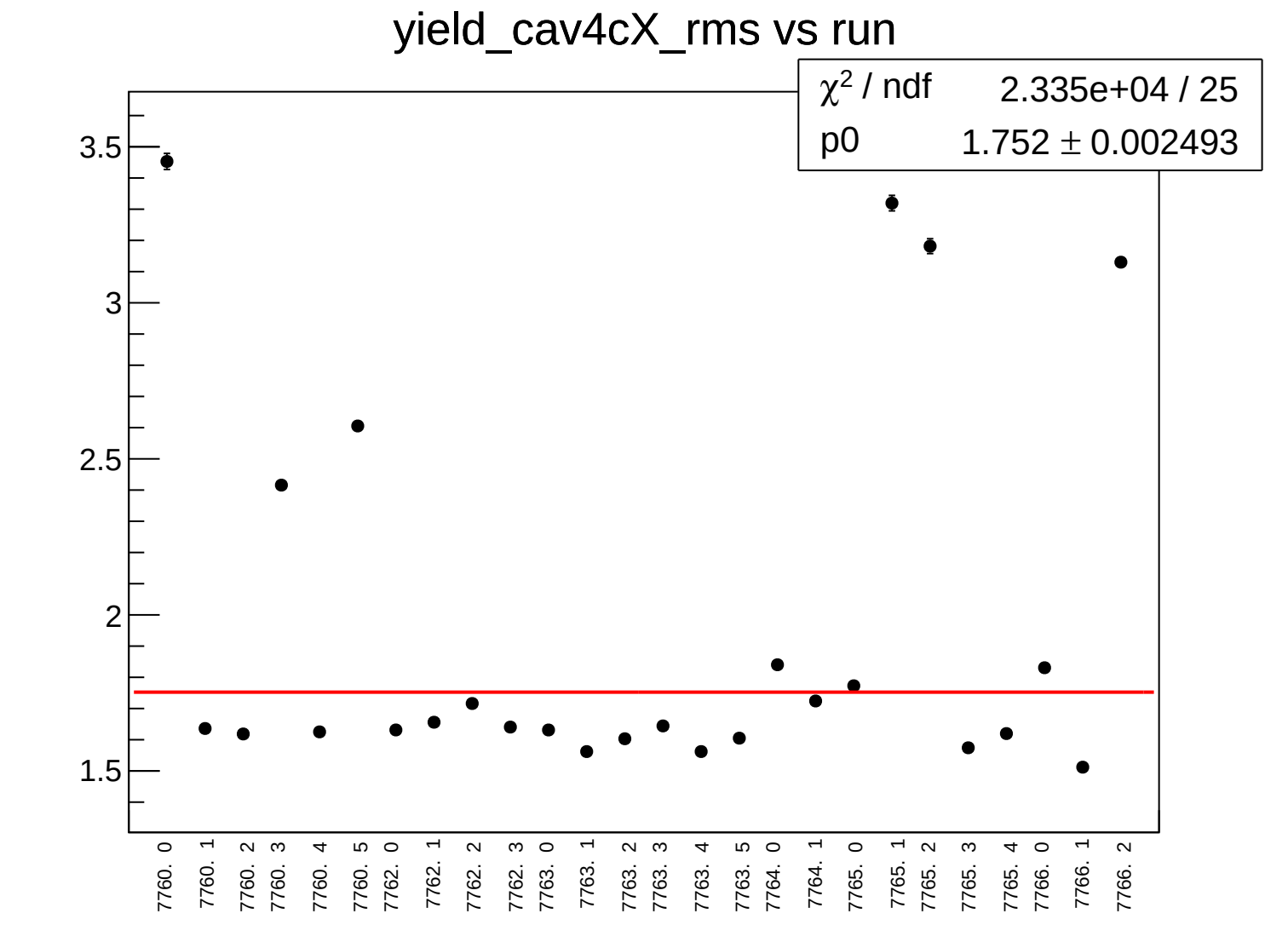

yield_cav4bX_rms vs run
χ² / ndf 1.908e+04 / 25
p0 4.702 ± 0.00666
9
8
7
6
5
4
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

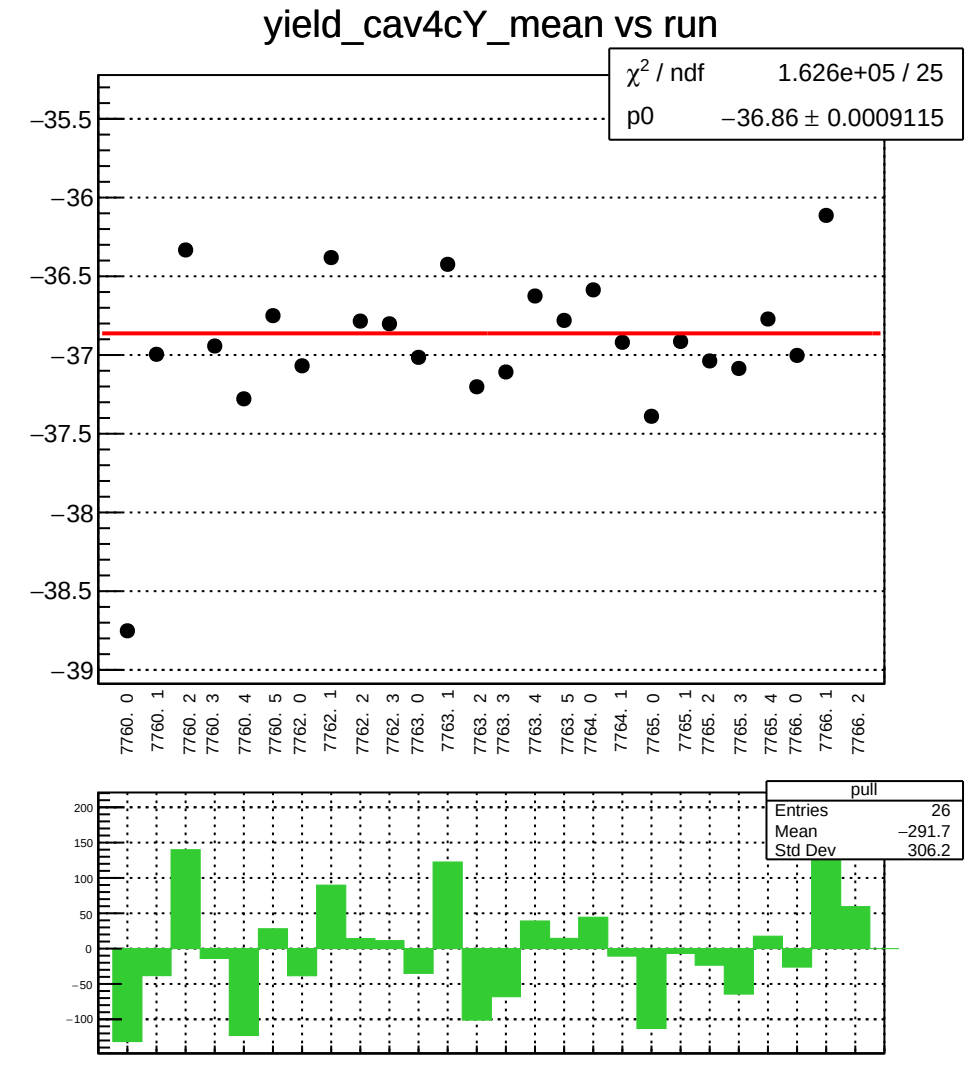

yield_cav4bY_mean vs run
χ² / ndf 6.84e+05 / 25
p0 −70.07 ± 0.002795
−64
−66
−68
−70
−72
−74
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 26.03
Std Dev 7.201
600
500
400
300
200
100
0
−100
−200

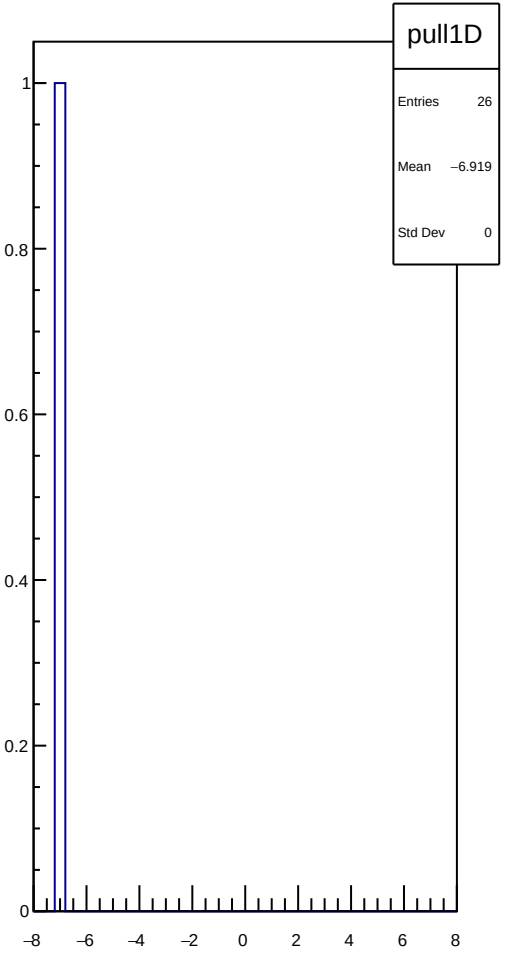

pull1D
Entries 26
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

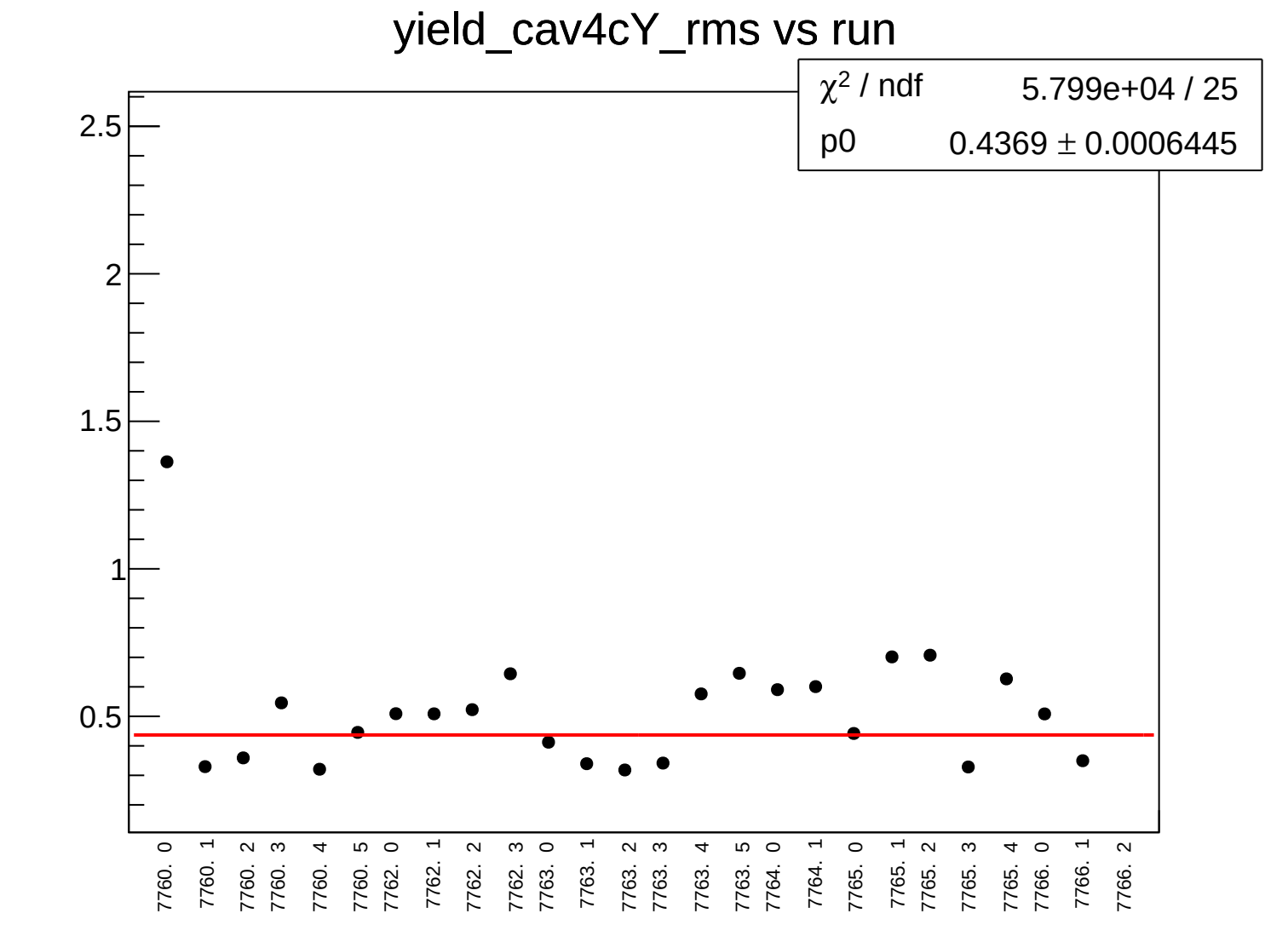

yield_cav4bY_rms vs run
χ² / ndf 1.524e+05 / 25
p0 1.194 ± 0.001976
7
6
5
4
3
2
1
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

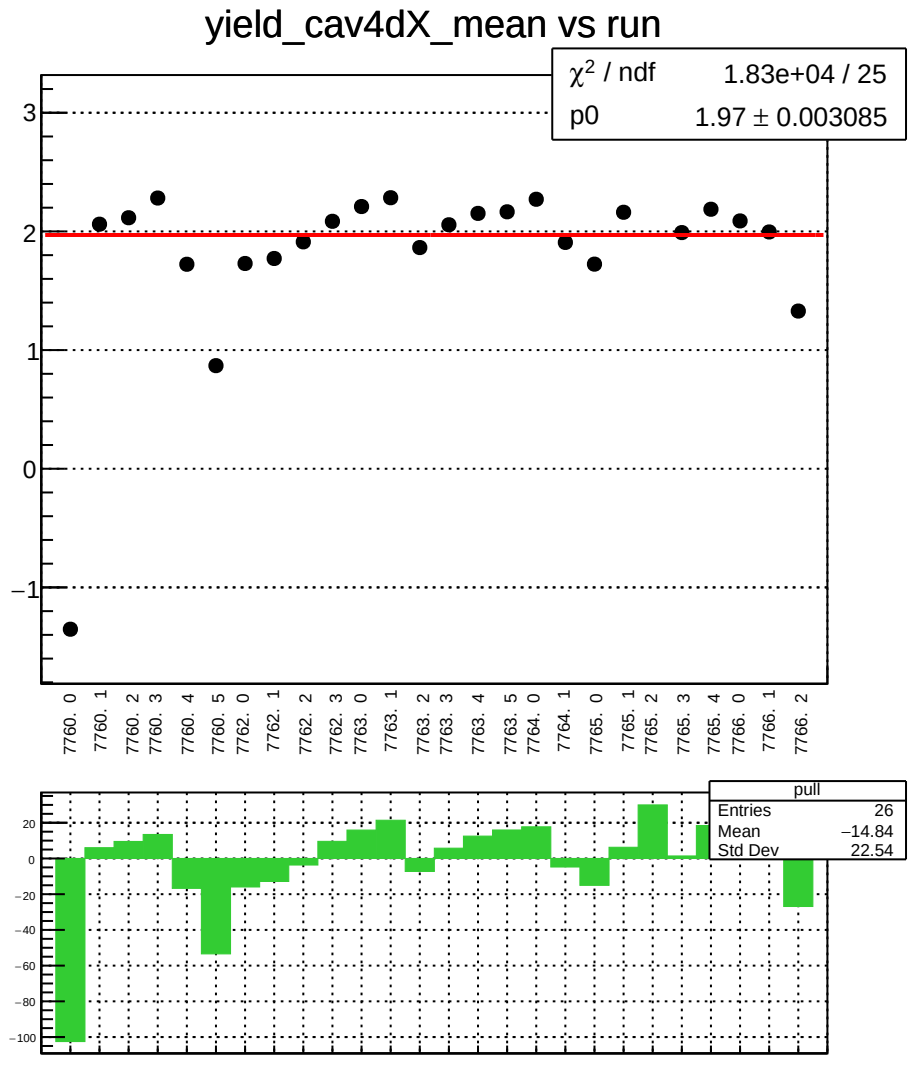

yield_cav4cX_mean vs run
χ² / ndf 1.757e+04 / 25
p0 1.077 ± 0.003525
pull
Entries 26
Mean −12.48
Std Dev 19.15
pull1D
Entries 26
Mean 2.745
Std Dev 3.816

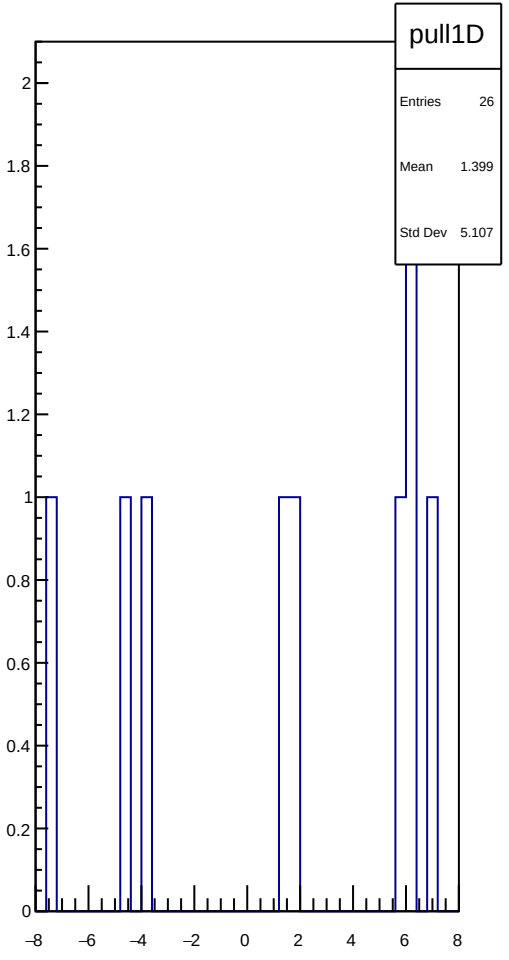

yield_cav4cX_rms vs run
χ² / ndf 2.335e+04 / 25
p0 1.752 ± 0.002493
3.5
3
2.5
2
1.5
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

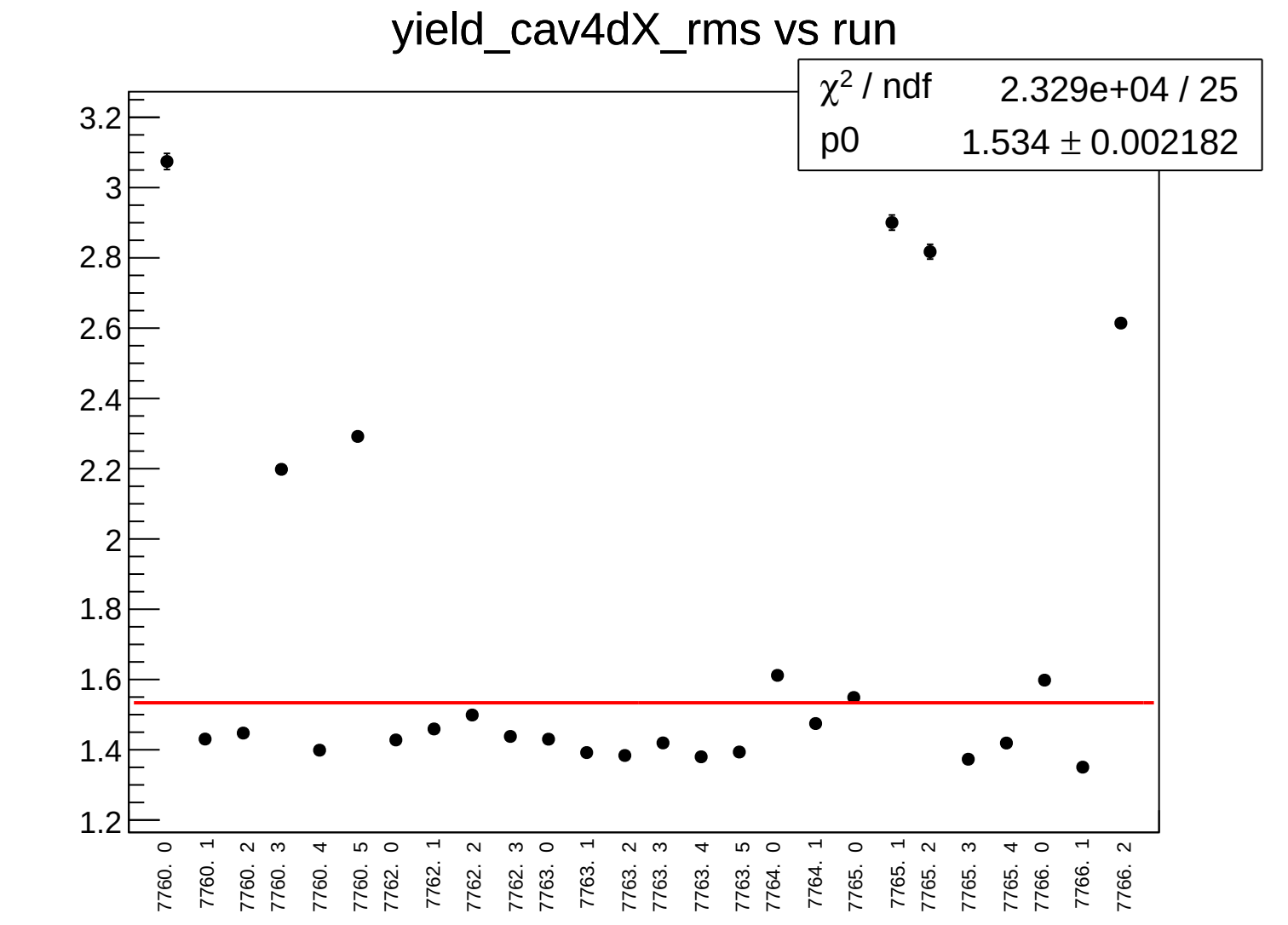

yield_cav4cY_mean vs run
χ² / ndf 1.626e+05 / 25
p0 −36.86 ± 0.0009115
−35.5
−36
−36.5
−37
−37.5
−38
−38.5
−39
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −291.7
Std Dev 306.2
200
150
100
50
0
−50
−100

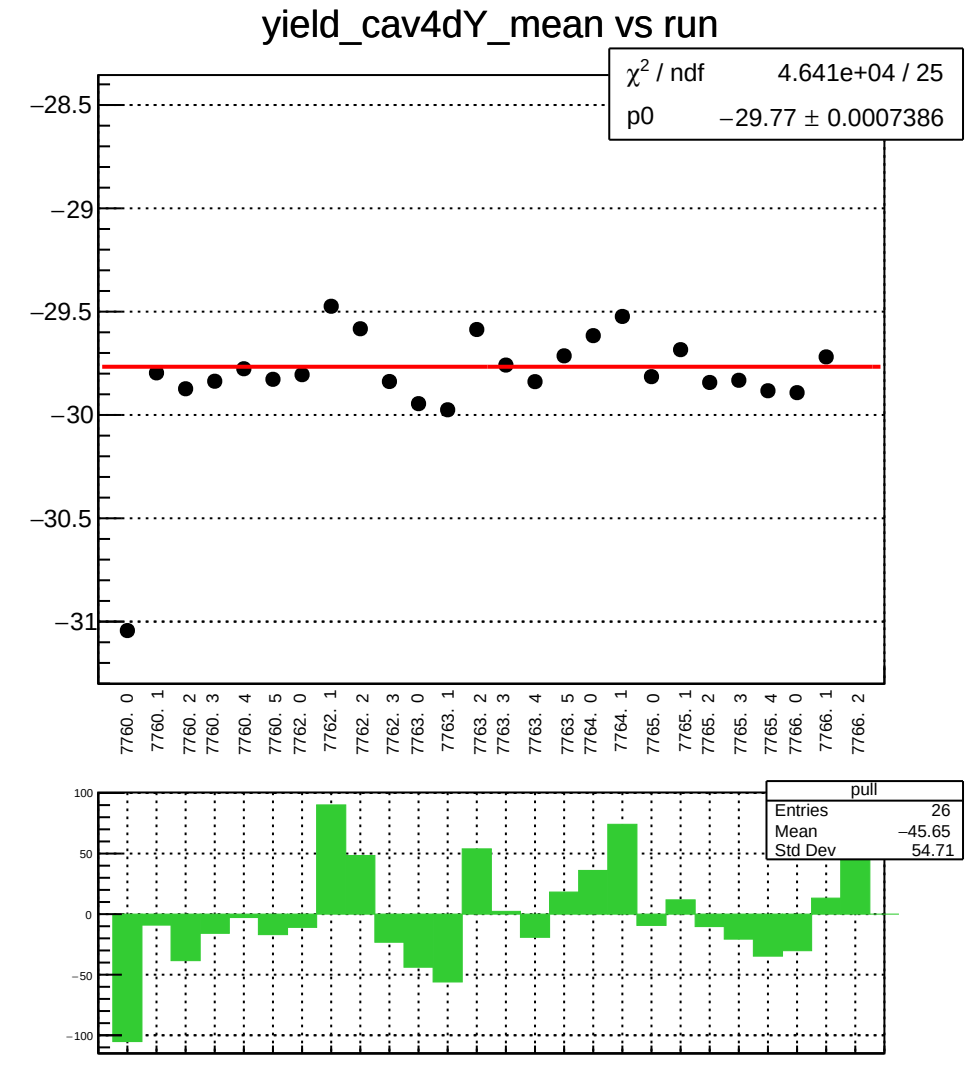

pull1D
Entries 26
Mean −6.919
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

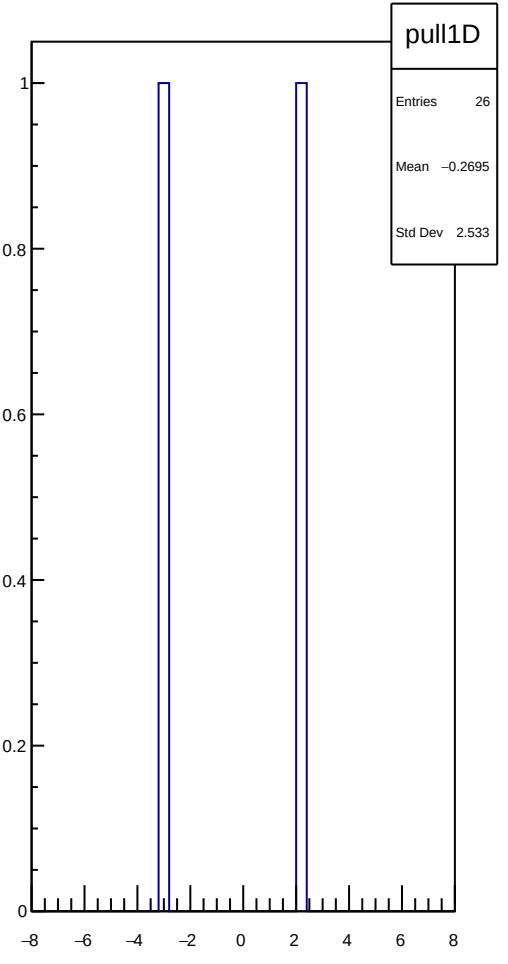

yield_cav4cY_rms vs run
χ² / ndf 5.799e+04 / 25
p0 0.4369 ± 0.0006445
2.5
2
1.5
1
0.5
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

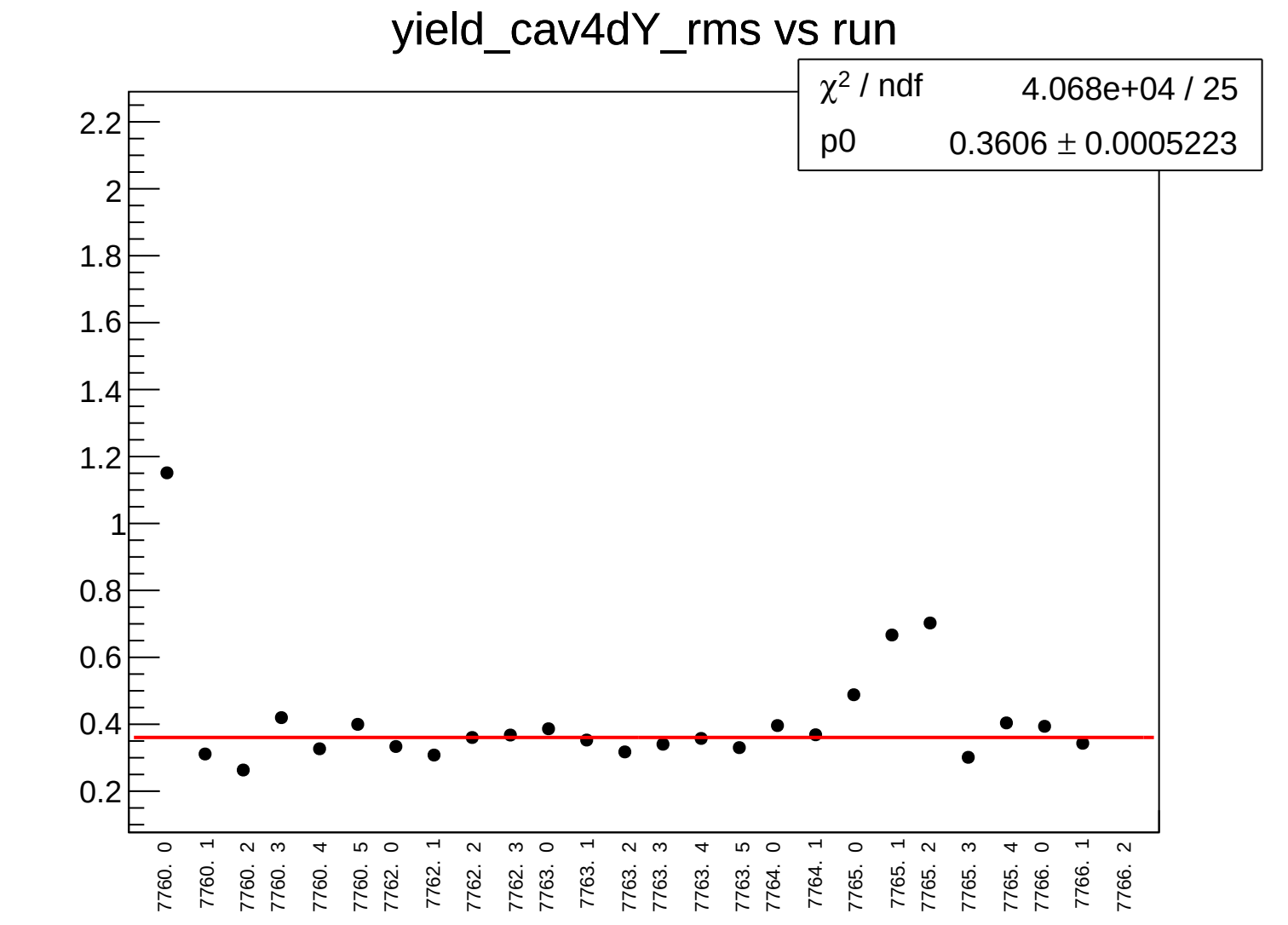

yield_cav4dX_mean vs run
χ² / ndf 1.83e+04 / 25
p0 1.97 ± 0.003085
3
2
1
0
−1
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −14.84
Std Dev 22.54
20
0
−20
−40
−60
−80
−100

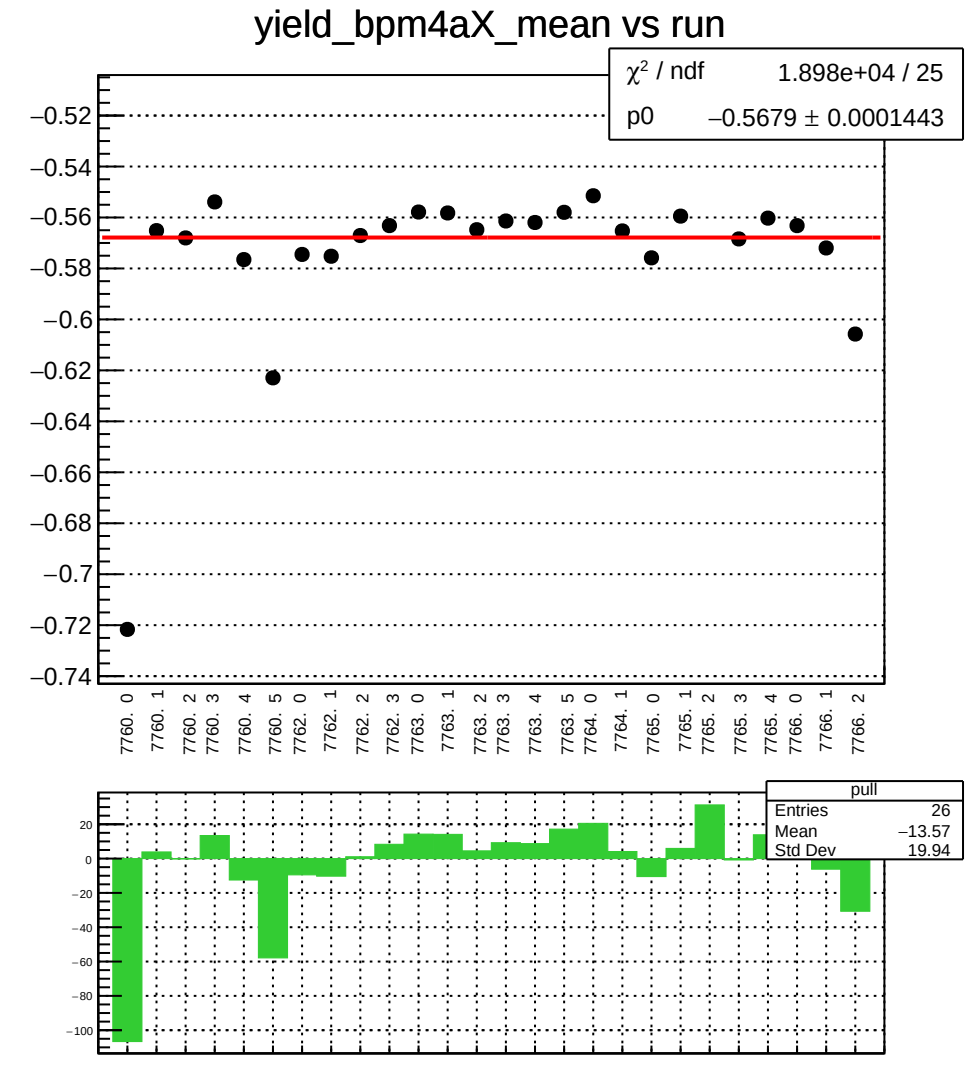

pull1D
Entries 26
Mean 1.399
Std Dev 5.107
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

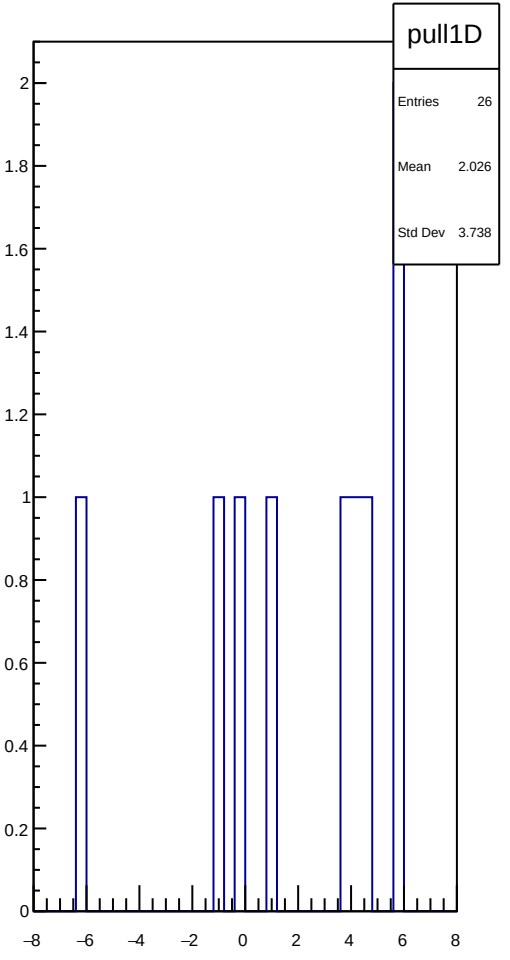

yield_cav4dX_rms vs run
χ² / ndf 2.329e+04 / 25
p0 1.534 ± 0.002182
3.2
3
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

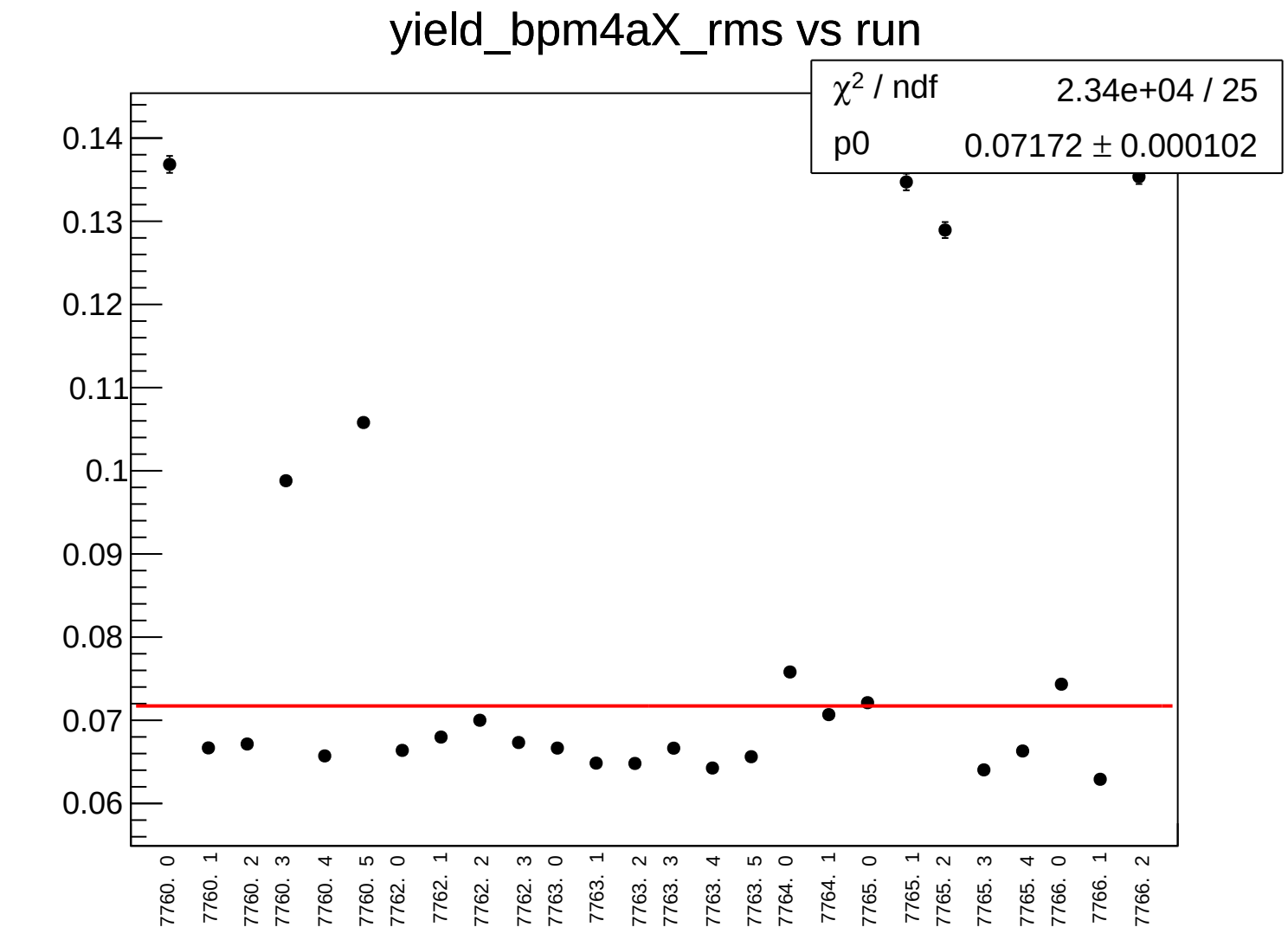

yield_cav4dY_mean vs run
χ² / ndf 4.641e+04 / 25
p0 −29.77 ± 0.0007386
−28.5
−29
−29.5
−30
−30.5
−31
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −45.65
Std Dev 54.71
100
50
0
−50
−100

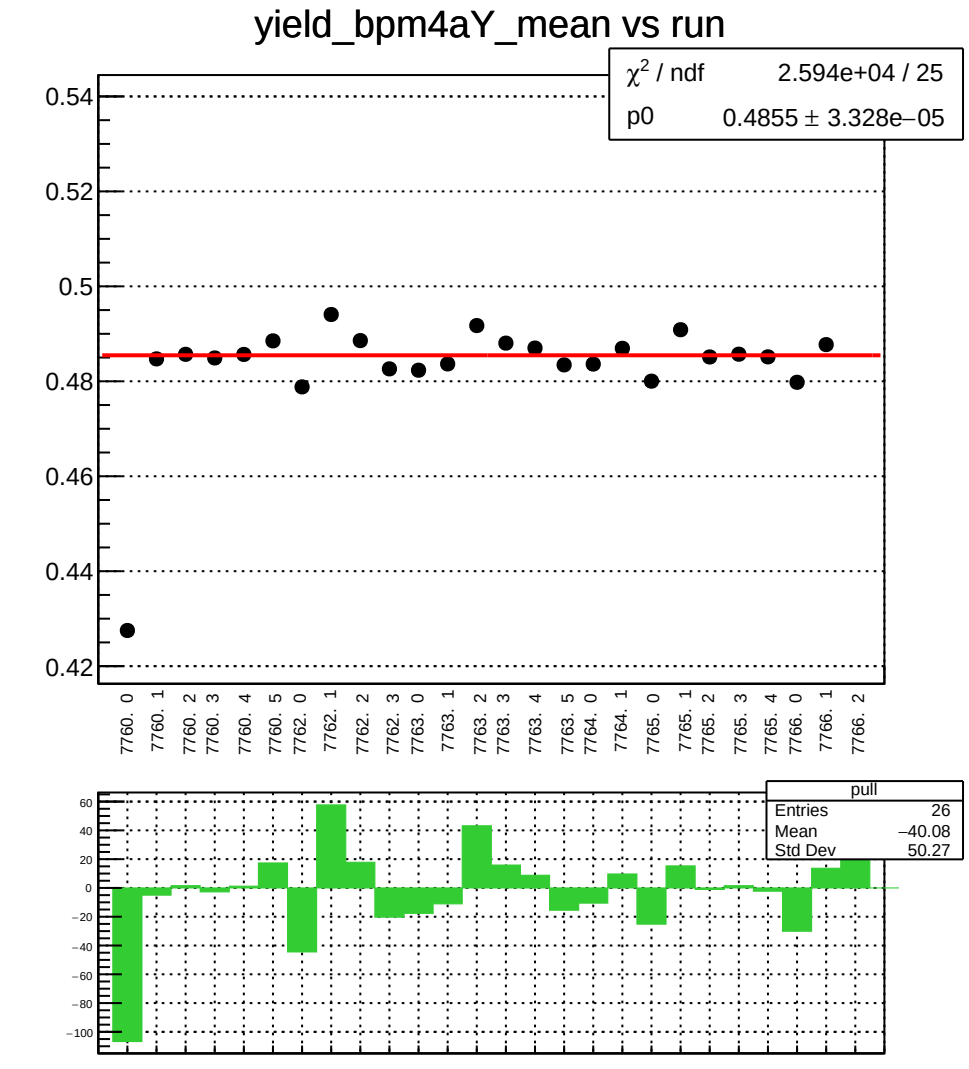

pull1D
Entries 26
Mean −0.2695
Std Dev 2.533
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

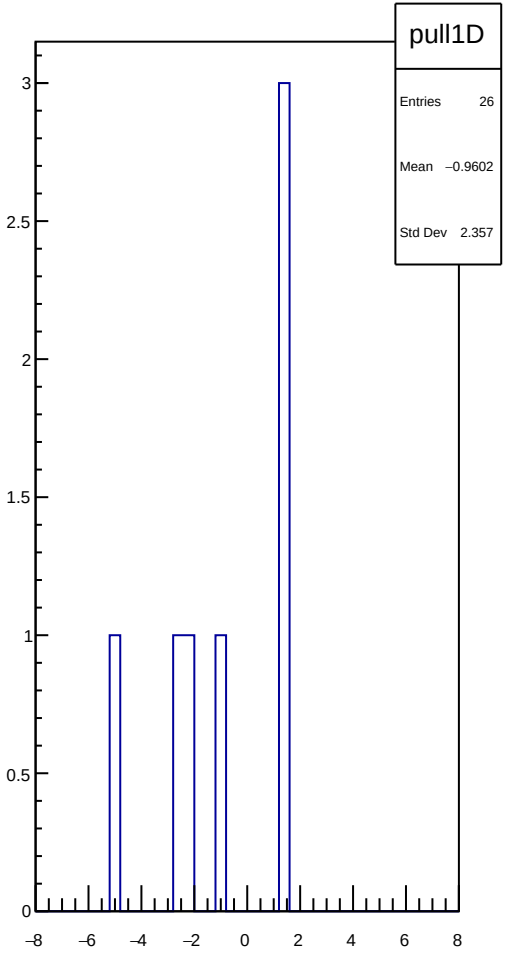

yield_cav4dY_rms vs run
χ² / ndf 4.068e+04 / 25
p0 0.3606 ± 0.0005223
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

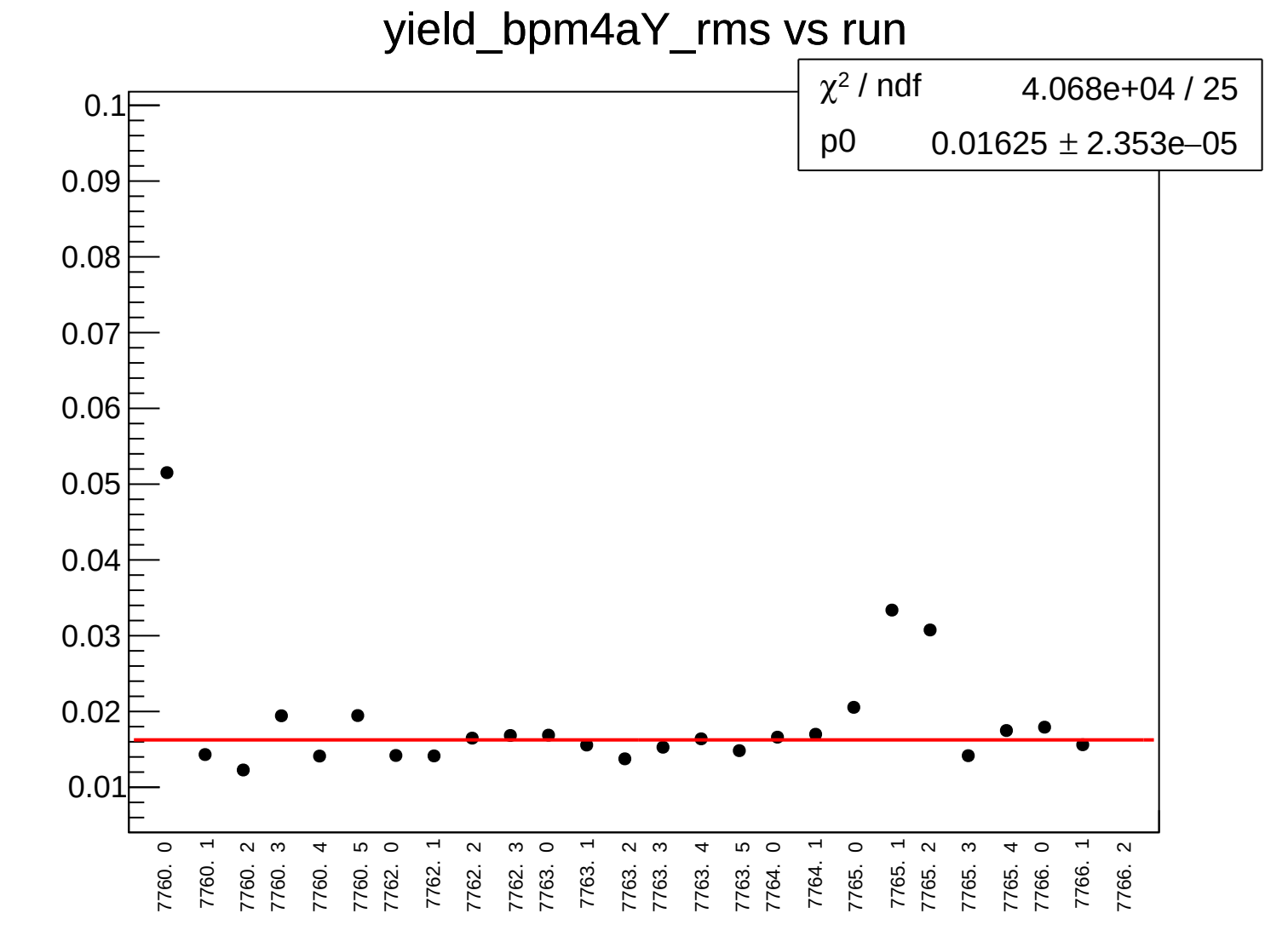

yield_bpm4aX_mean vs run
χ² / ndf 1.898e+04 / 25
p0 −0.5679 ± 0.0001443
−0.52
−0.54
−0.56
−0.58
−0.6
−0.62
−0.64
−0.66
−0.68
−0.7
−0.72
−0.74
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −13.57
Std Dev 19.94
20
0
−20
−40
−60
−80
−100

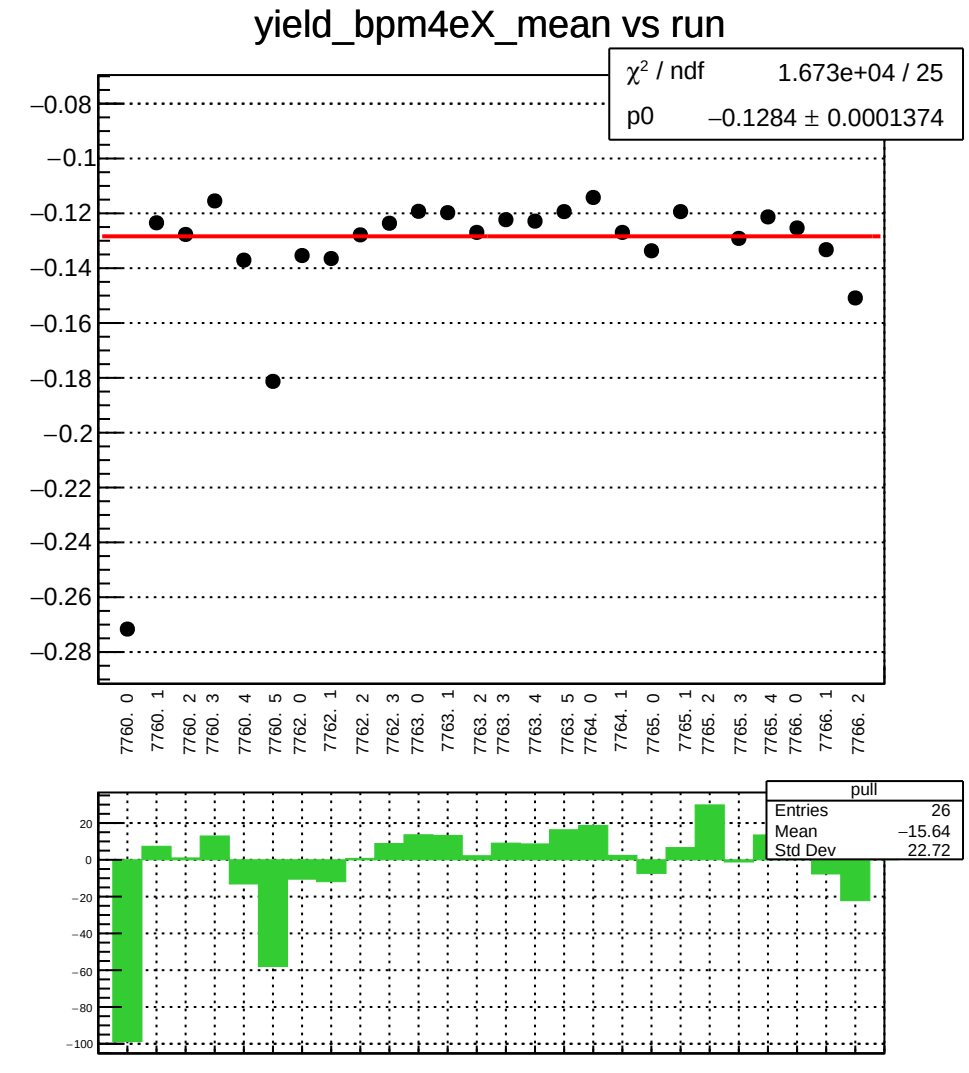

pull1D
Entries 26
Mean 2.026
Std Dev 3.738
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

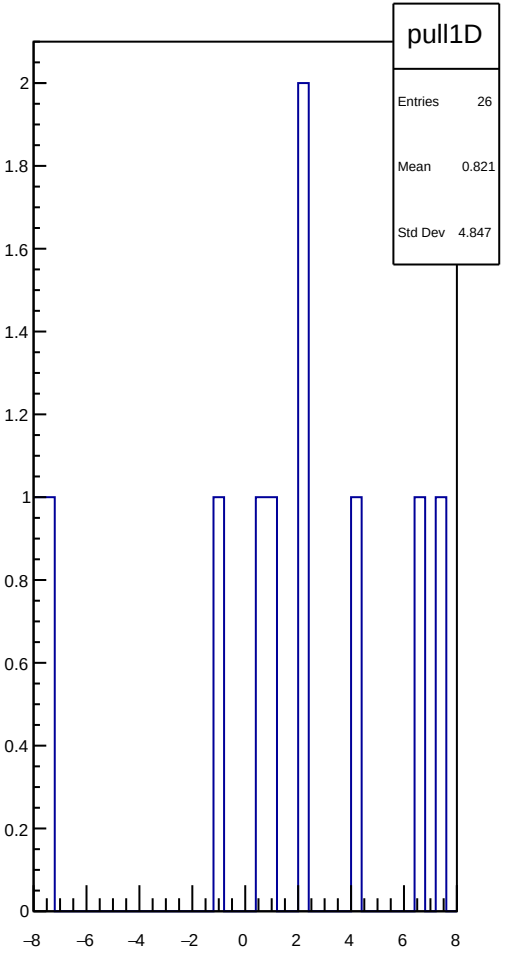

yield_bpm4aX_rms vs run
χ² / ndf 2.34e+04 / 25
p0 0.07172 ± 0.000102
0.14
0.13
0.12
0.11
0.1
0.09
0.08
0.07
0.06
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

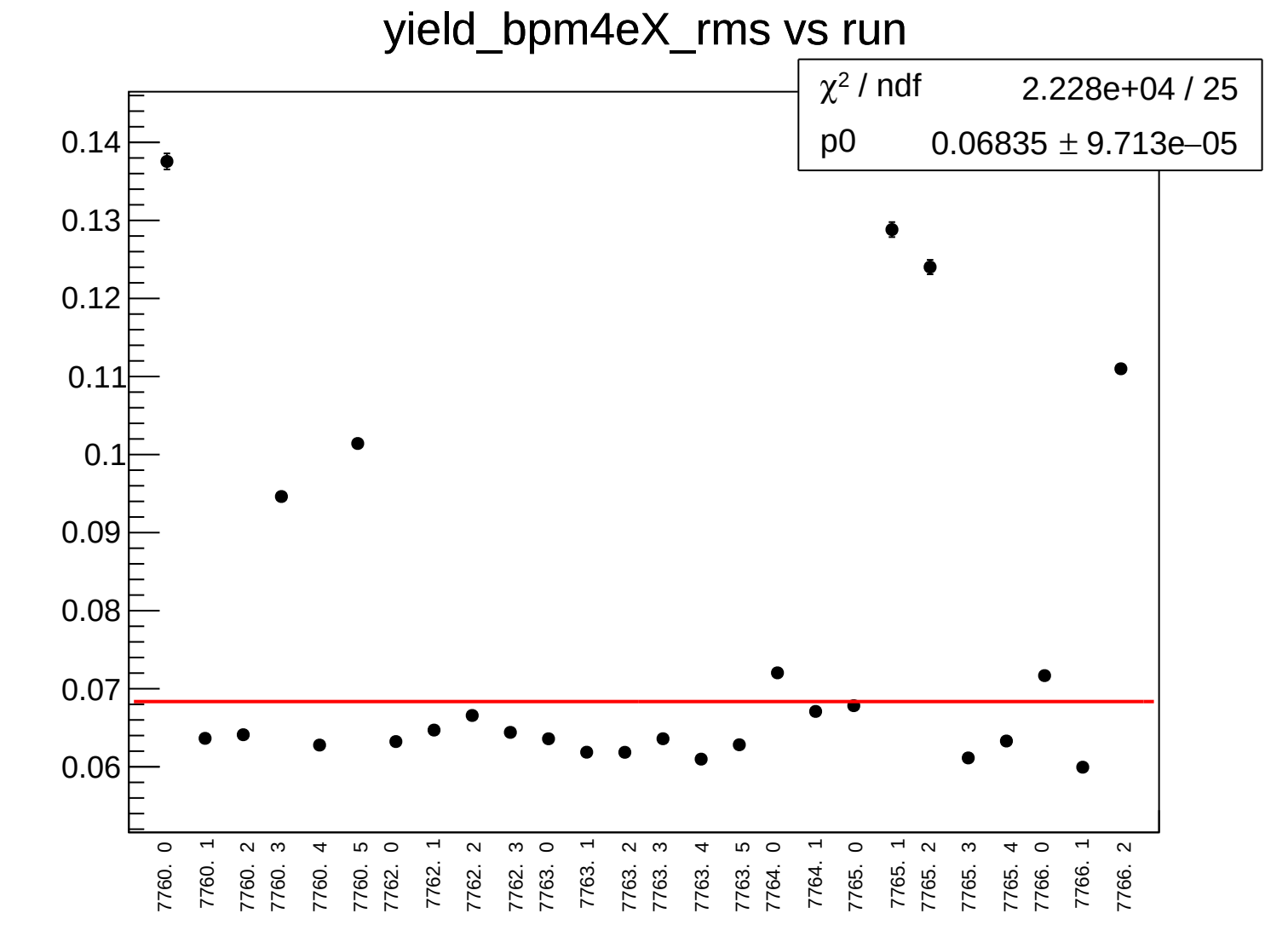

yield_bpm4aY_mean vs run
χ² / ndf 2.594e+04 / 25
p0 0.4855 ± 3.328e−05
0.54
0.52
0.5
0.48
0.46
0.44
0.42
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −40.08
Std Dev 50.27
60
40
20
0
−20
−40
−60
−80
−100

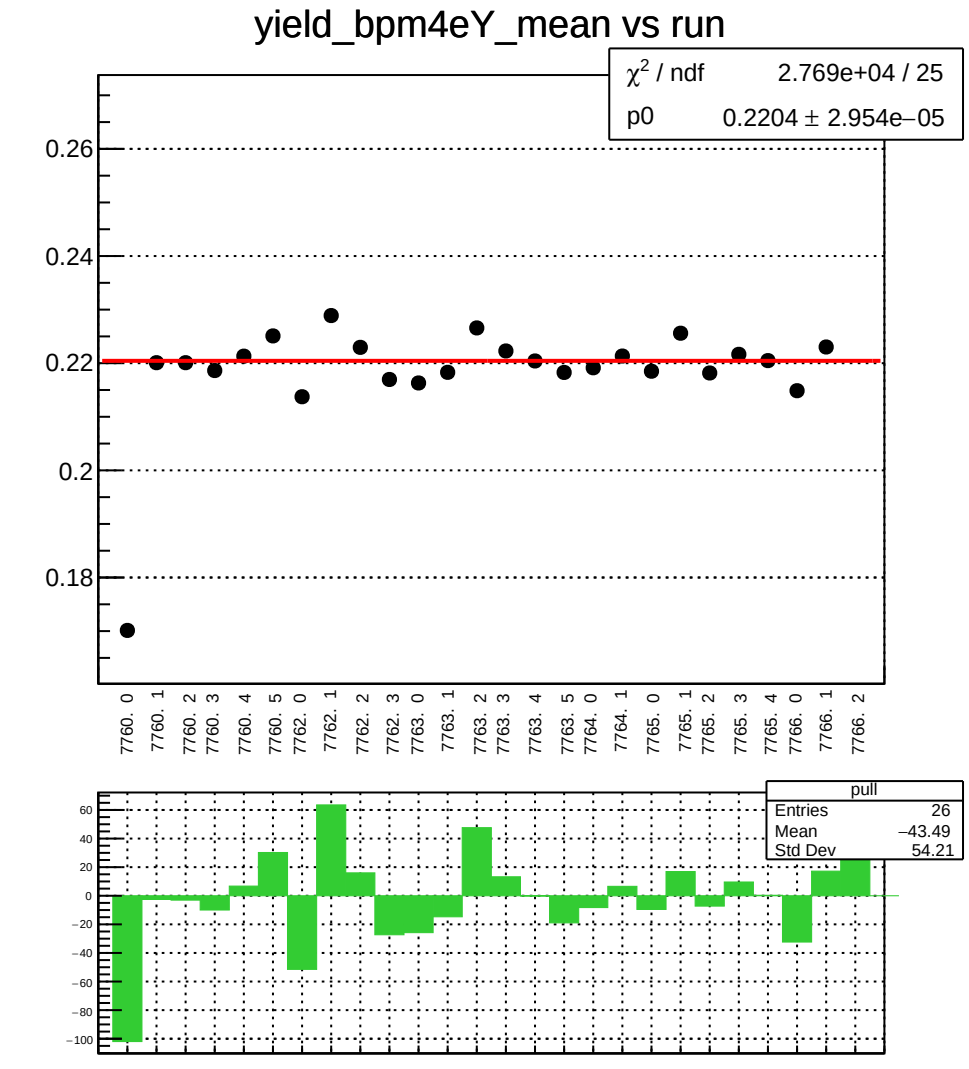

pull1D
Entries 26
Mean −0.9602
Std Dev 2.357
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

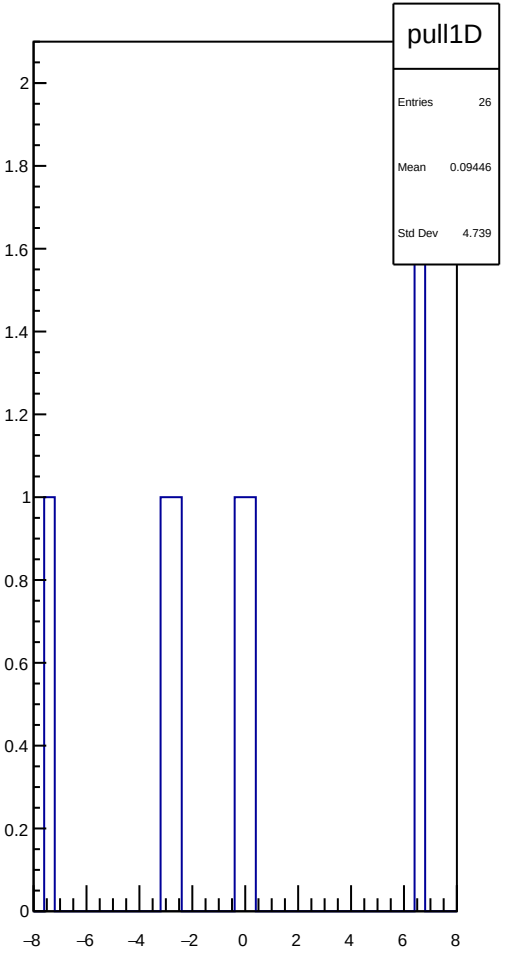

yield_bpm4aY_rms vs run
χ² / ndf 4.068e+04 / 25
p0 0.01625 ± 2.353e–05
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

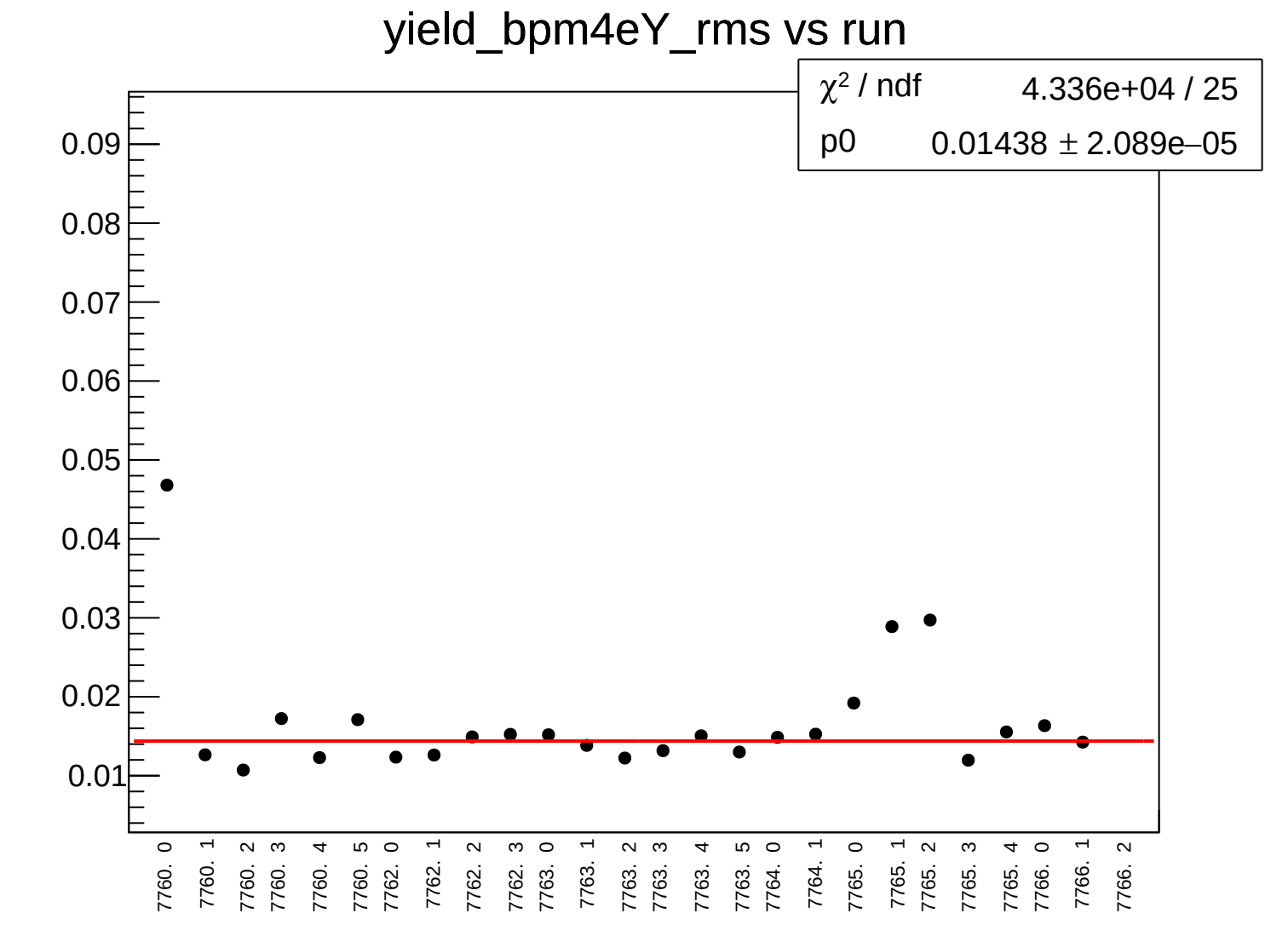

yield_bpm4eX_mean vs run
χ² / ndf 1.673e+04 / 25
p0 −0.1284 ± 0.0001374
−0.08
−0.1
−0.12
−0.14
−0.16
−0.18
−0.2
−0.22
−0.24
−0.26
−0.28
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −15.64
Std Dev 22.72
20
0
−20
−40
−60
−80
−100

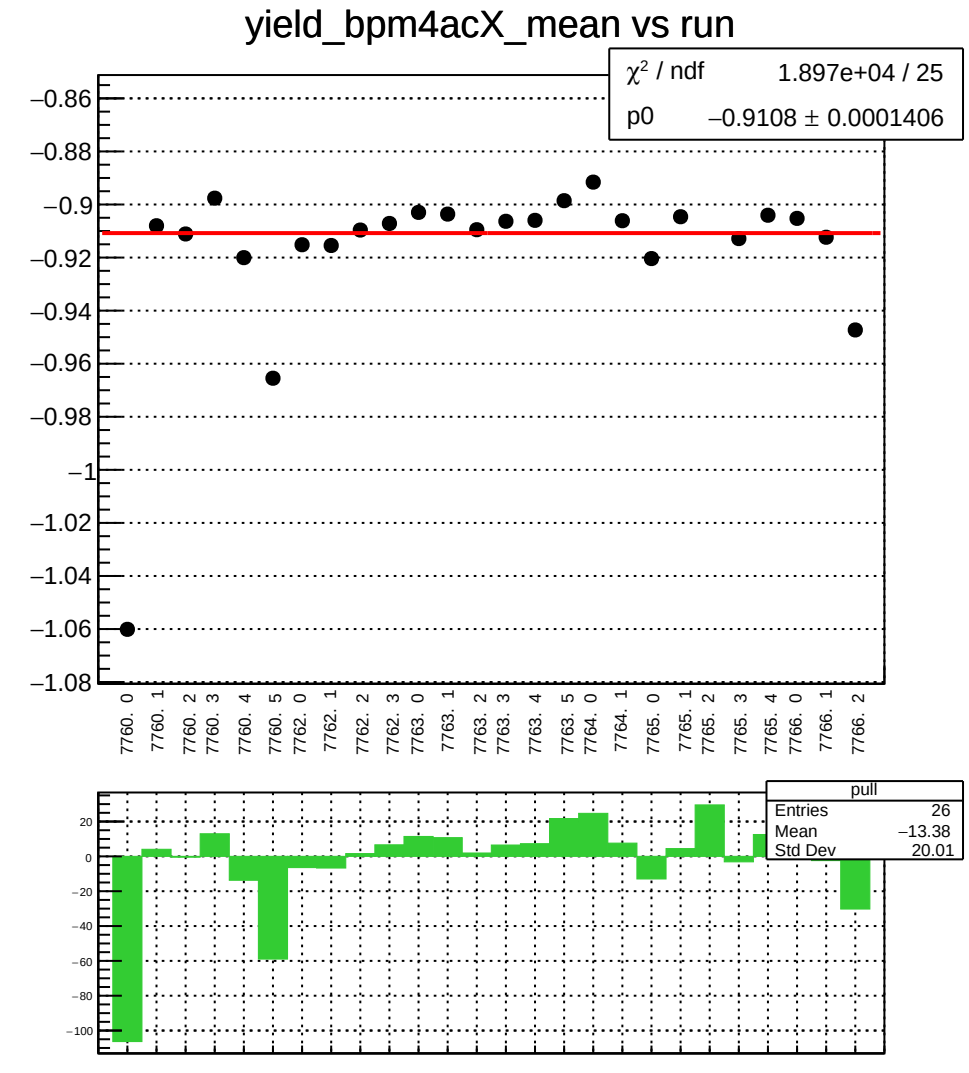

pull1D
Entries 26
Mean 0.821
Std Dev 4.847
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

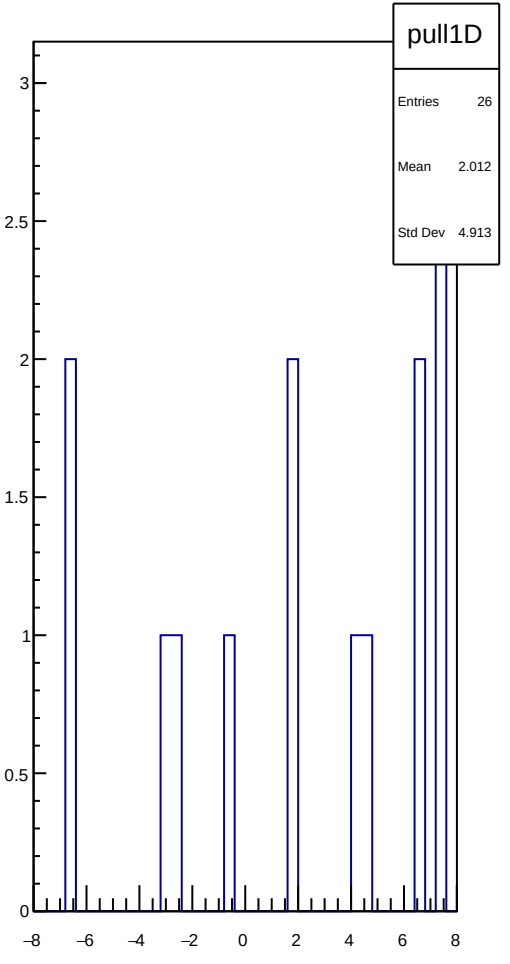

yield_bpm4eX_rms vs run
χ² / ndf 2.228e+04 / 25
p0 0.06835 ± 9.713e–05
0.14
0.13
0.12
0.11
0.1
0.09
0.08
0.07
0.06
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

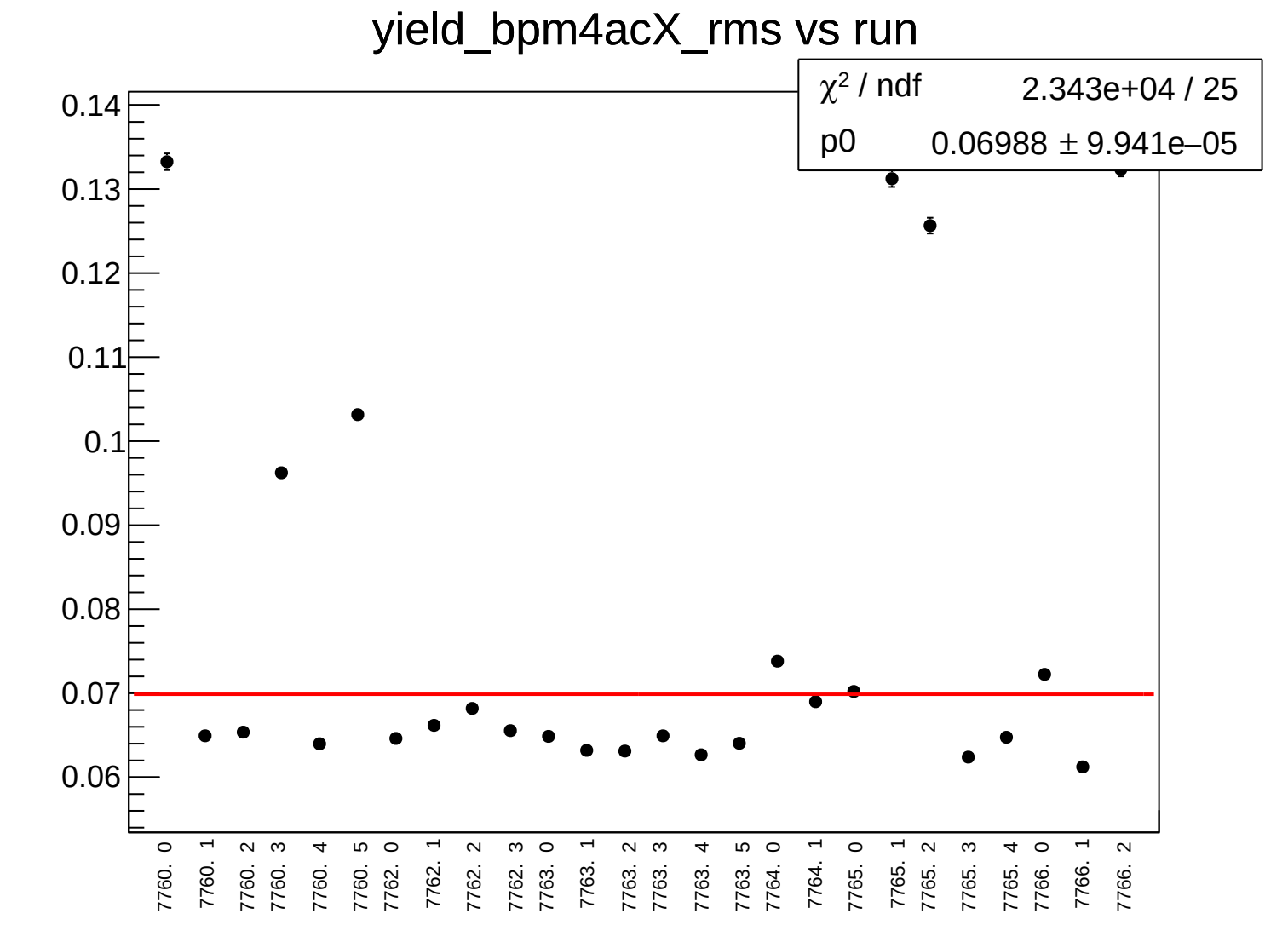

yield_bpm4eY_mean vs run
χ² / ndf 2.769e+04 / 25
p0 0.2204 ± 2.954e−05
0.26
0.24
0.22
0.2
0.18
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −43.49
Std Dev 54.21
60
40
20
0
−20
−40
−60
−80
−100

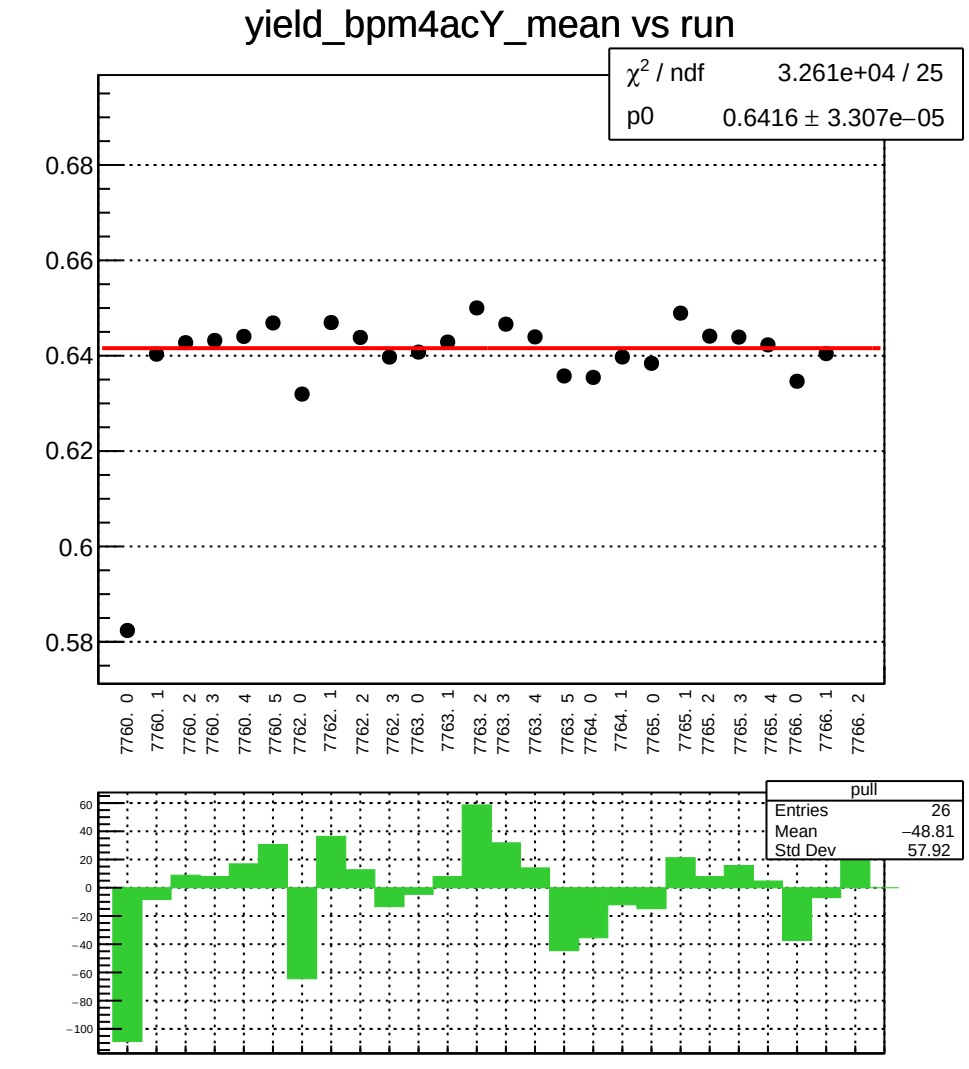

pull1D
Entries 26
Mean 0.09446
Std Dev 4.739
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

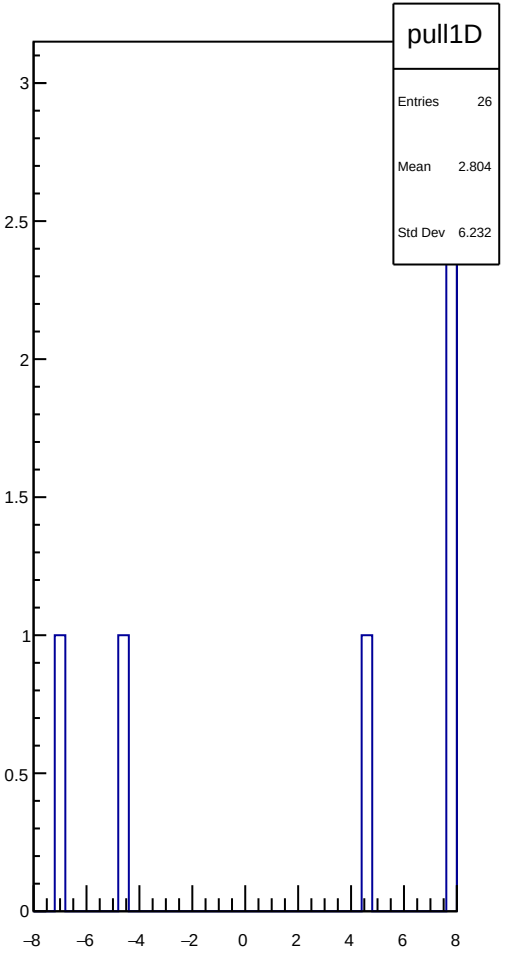

yield_bpm4eY_rms vs run
χ² / ndf 4.336e+04 / 25
p0 0.01438 ± 2.089e–05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

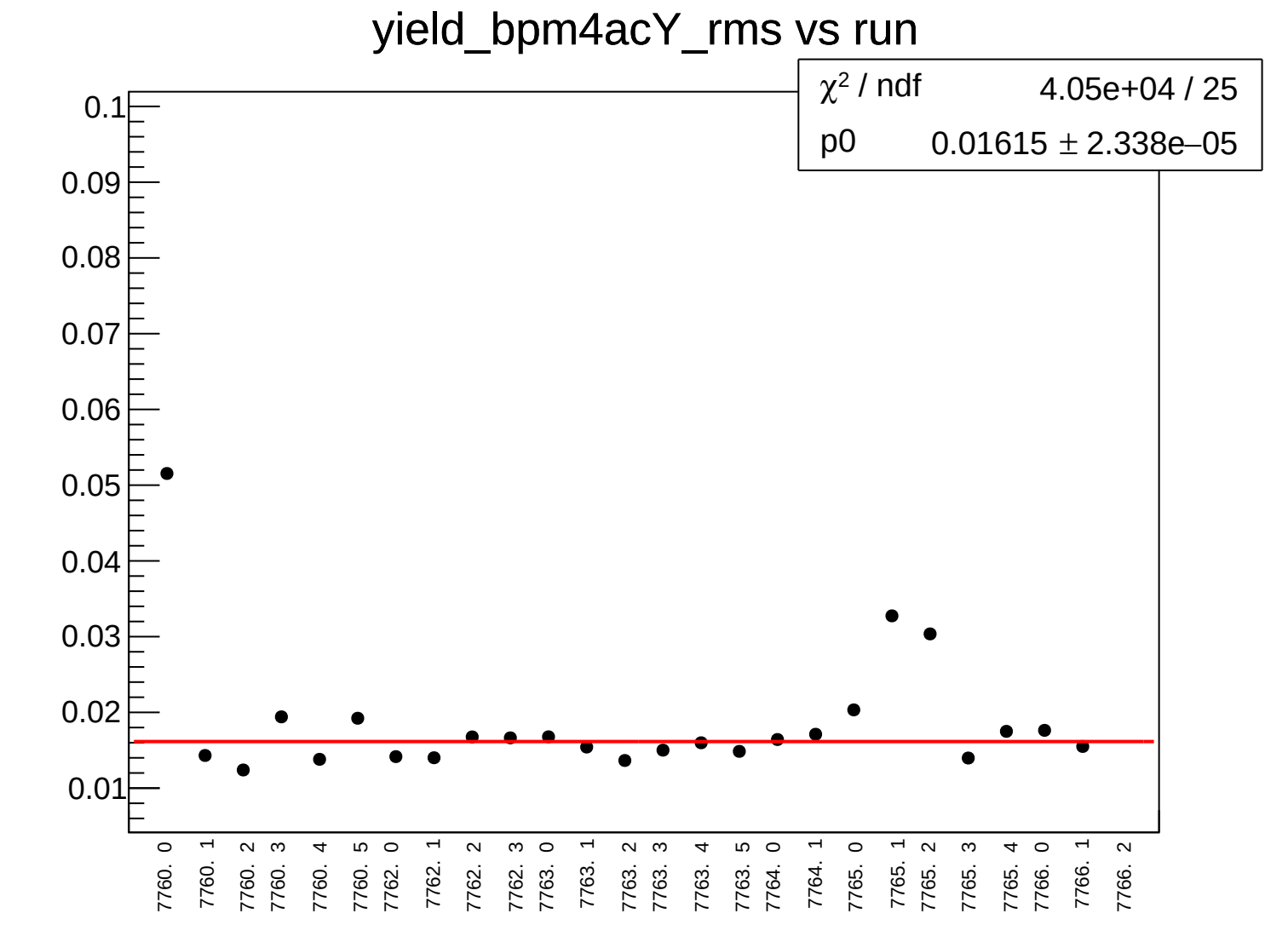

yield_bpm4acX_mean vs run
χ² / ndf 1.897e+04 / 25
p0 −0.9108 ± 0.0001406
−0.86
−0.88
−0.9
−0.92
−0.94
−0.96
−0.98
−1
−1.02
−1.04
−1.06
−1.08
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −13.38
Std Dev 20.01
20
0
−20
−40
−60
−80
−100

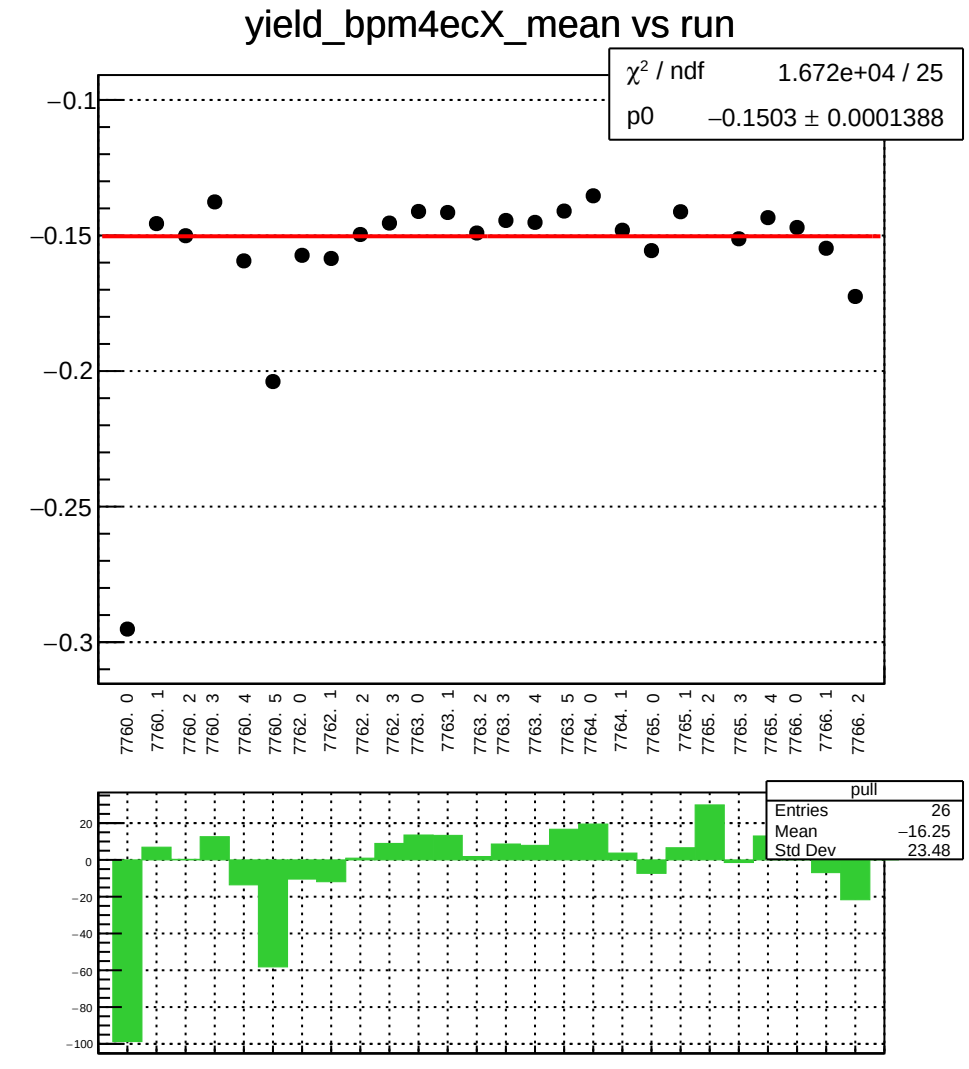

pull1D
Entries 26
Mean 2.012
Std Dev 4.913
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

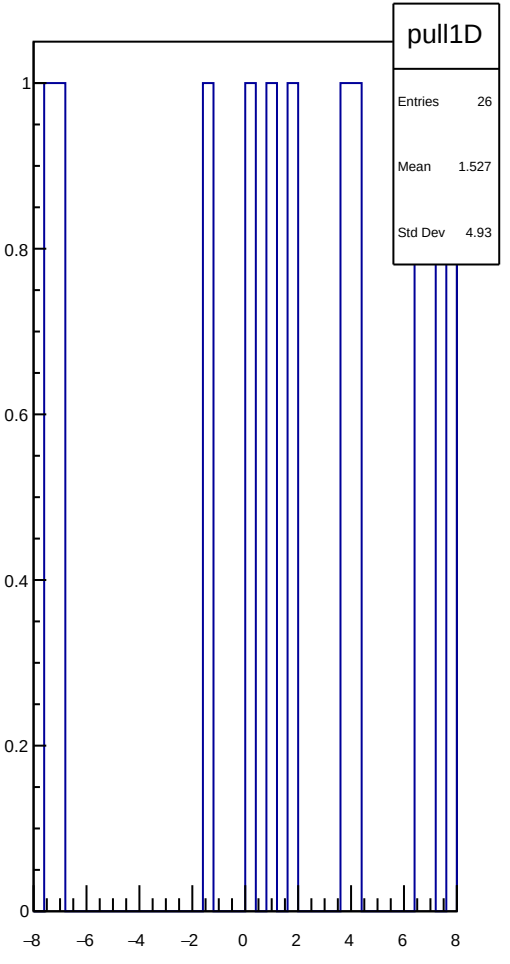

yield_bpm4acX_rms vs run
χ² / ndf 2.343e+04 / 25
p0 0.06988 ± 9.941e−05
0.14
0.13
0.12
0.11
0.1
0.09
0.08
0.07
0.06
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

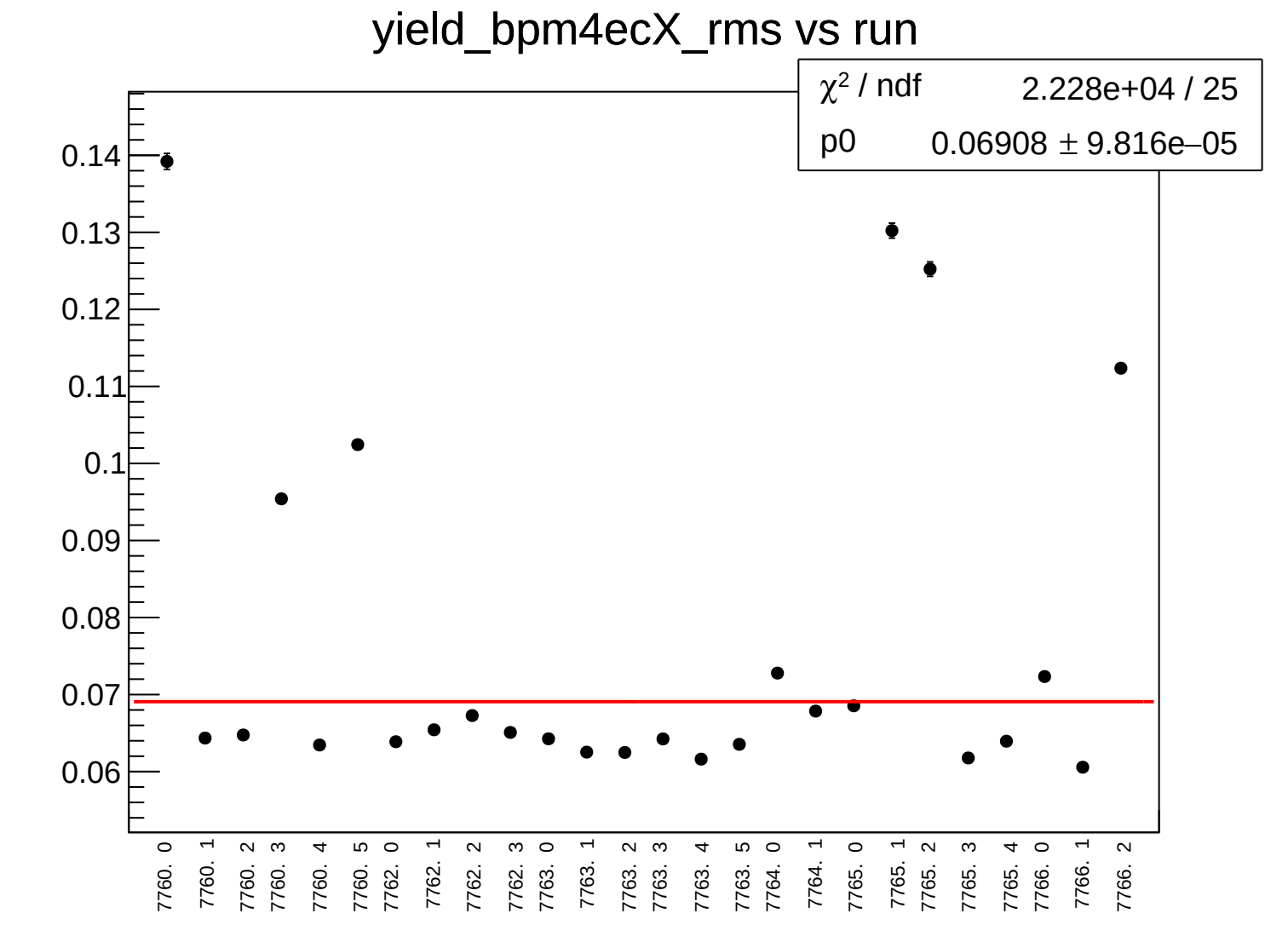

yield_bpm4acY_mean vs run
χ² / ndf 3.261e+04 / 25
p0 0.6416 ± 3.307e−05
0.68
0.66
0.64
0.62
0.6
0.58
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −48.81
Std Dev 57.92
60
40
20
0
−20
−40
−60
−80
−100

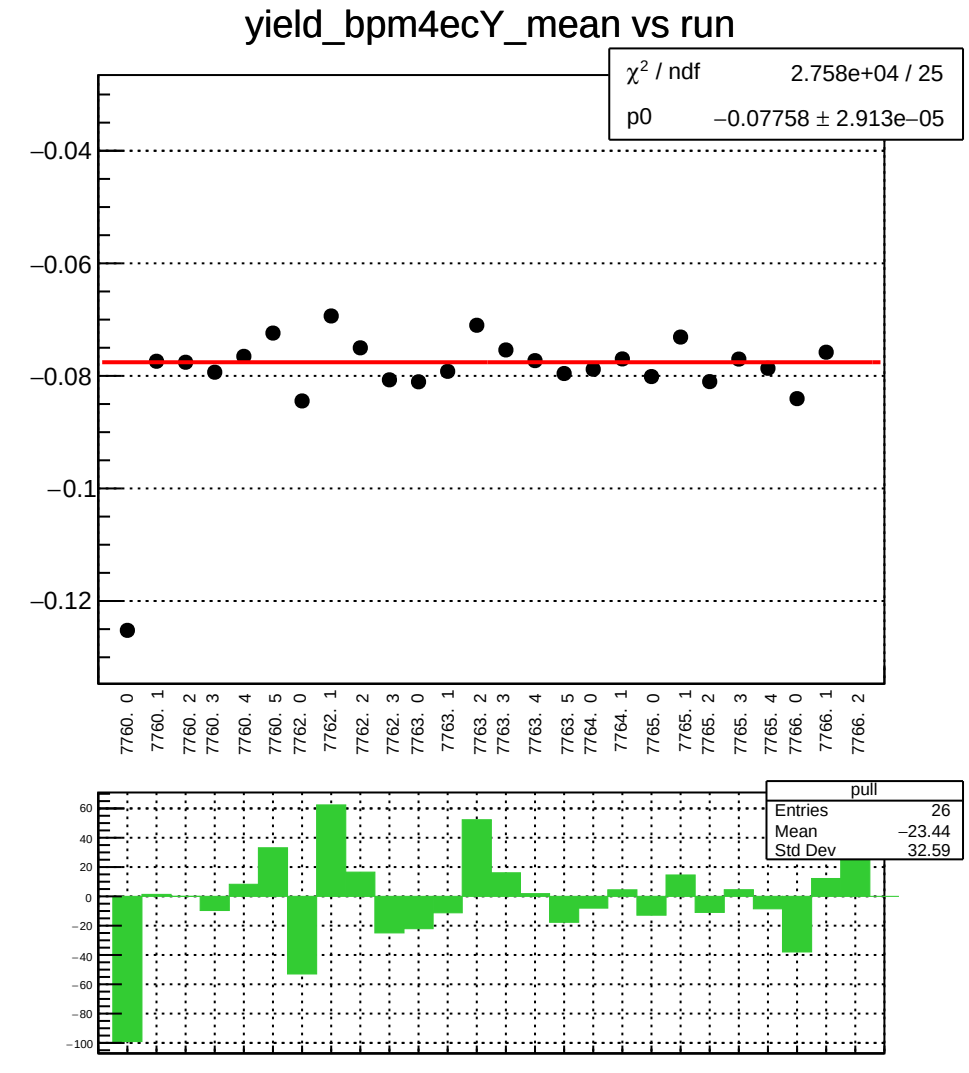

pull1D
Entries 26
Mean 2.804
Std Dev 6.232
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

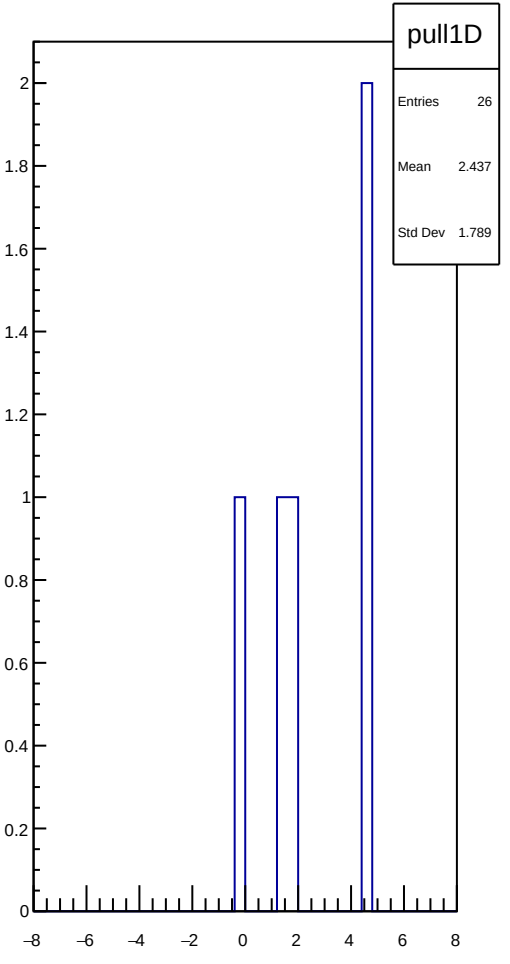

yield_bpm4acY_rms vs run
χ² / ndf 4.05e+04 / 25
p0 0.01615 ± 2.338e–05
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

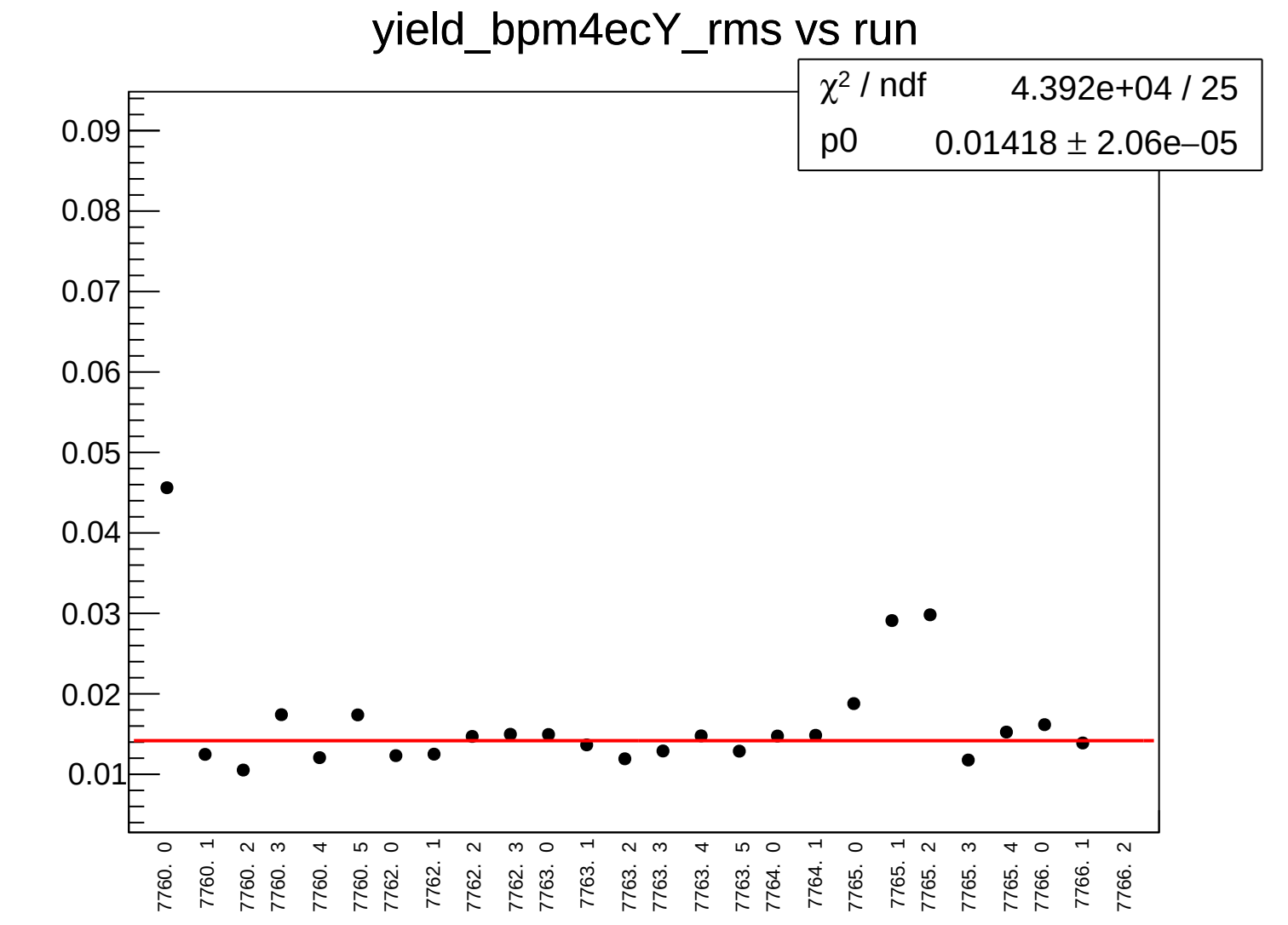

yield_bpm4ecX_mean vs run
χ² / ndf 1.672e+04 / 25
p0 −0.1503 ± 0.0001388
−0.1
−0.15
−0.2
−0.25
−0.3
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −16.25
Std Dev 23.48
20
0
−20
−40
−60
−80
−100

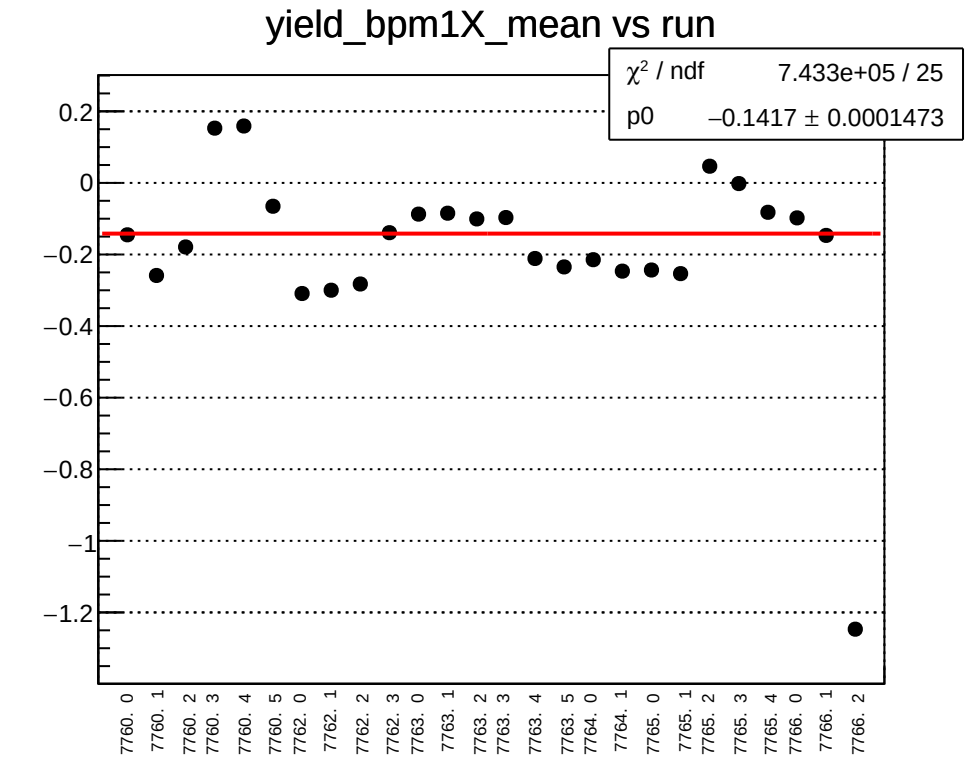

pull1D
Entries 26
Mean 1.527
Std Dev 4.93
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

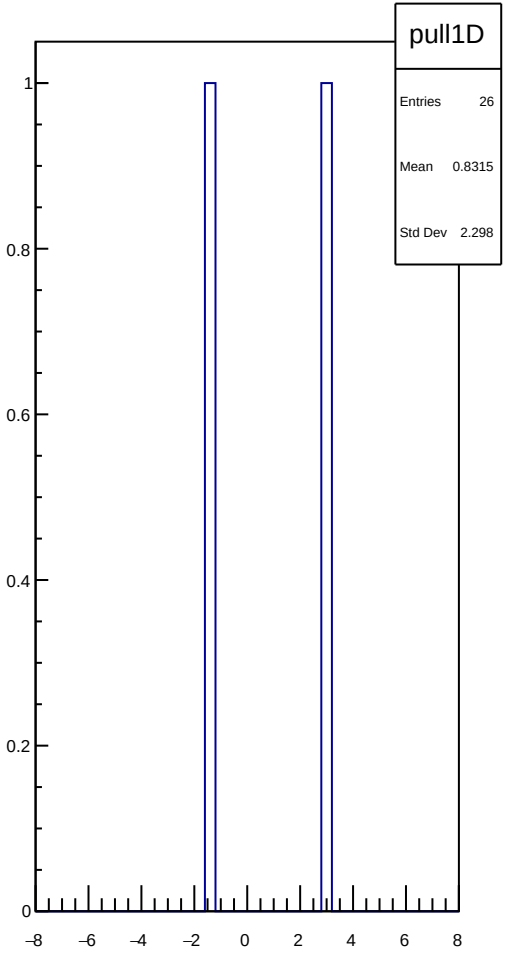

yield_bpm4ecX_rms vs run
χ² / ndf 2.228e+04 / 25
p0 0.06908 ± 9.816e–05
0.14
0.13
0.12
0.11
0.1
0.09
0.08
0.07
0.06
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

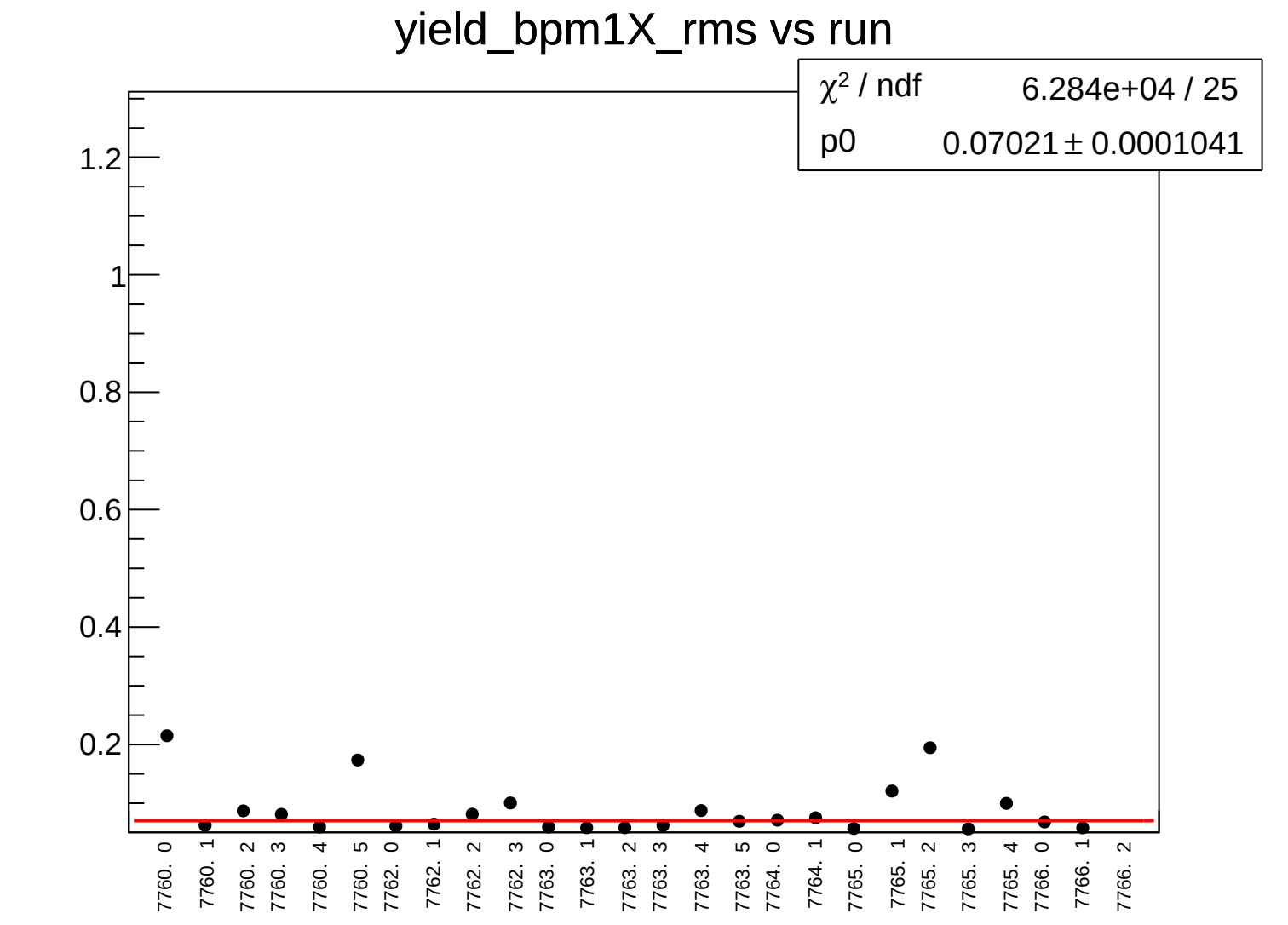

yield_bpm4ecY_mean vs run
χ² / ndf 2.758e+04 / 25
p0 −0.07758 ± 2.913e−05
−0.04
−0.06
−0.08
−0.1
−0.12
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −23.44
Std Dev 32.59
60
40
20
0
−20
−40
−60
−80
−100

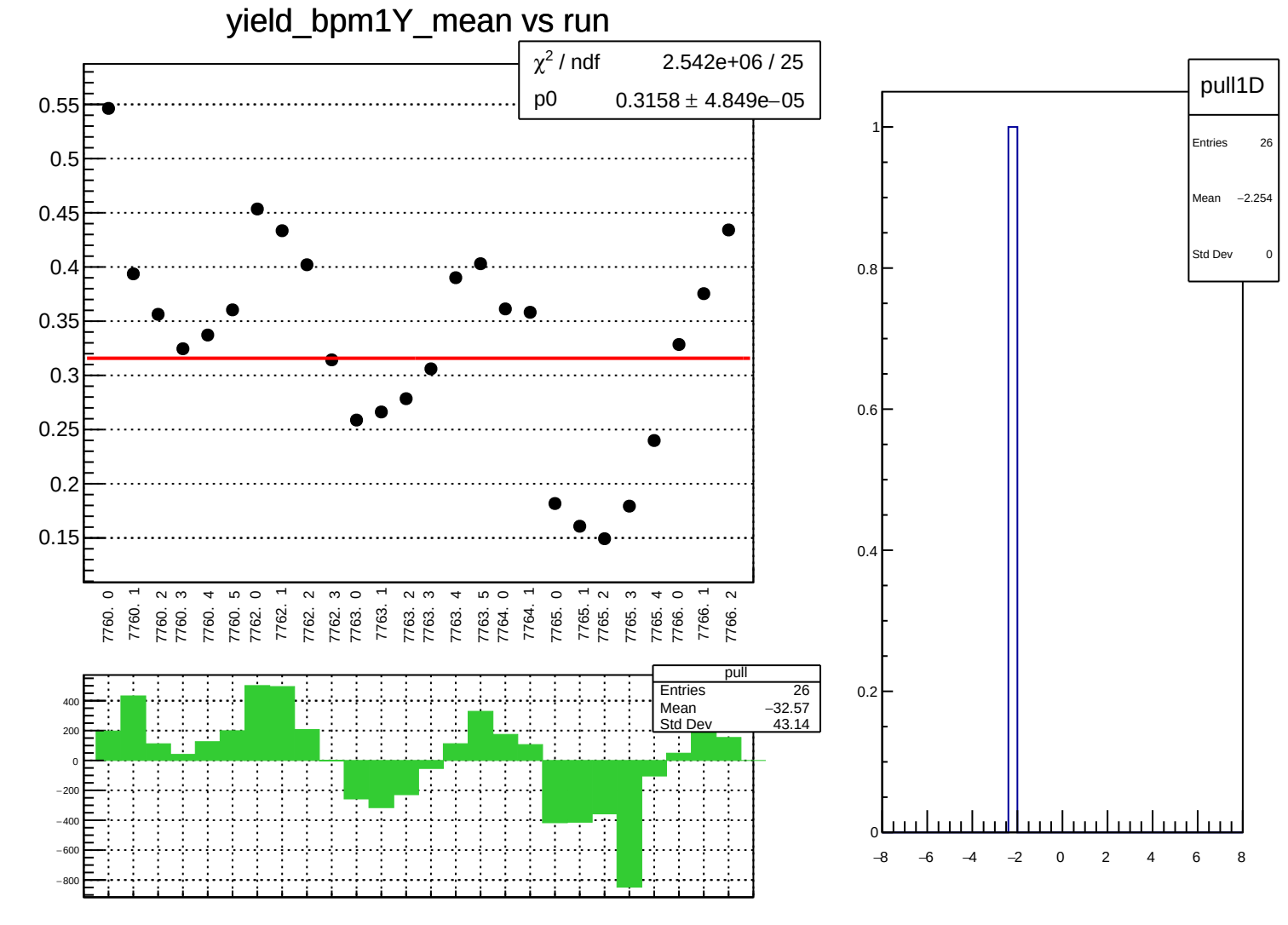

pull1D
Entries 26
Mean 2.437
Std Dev 1.789
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

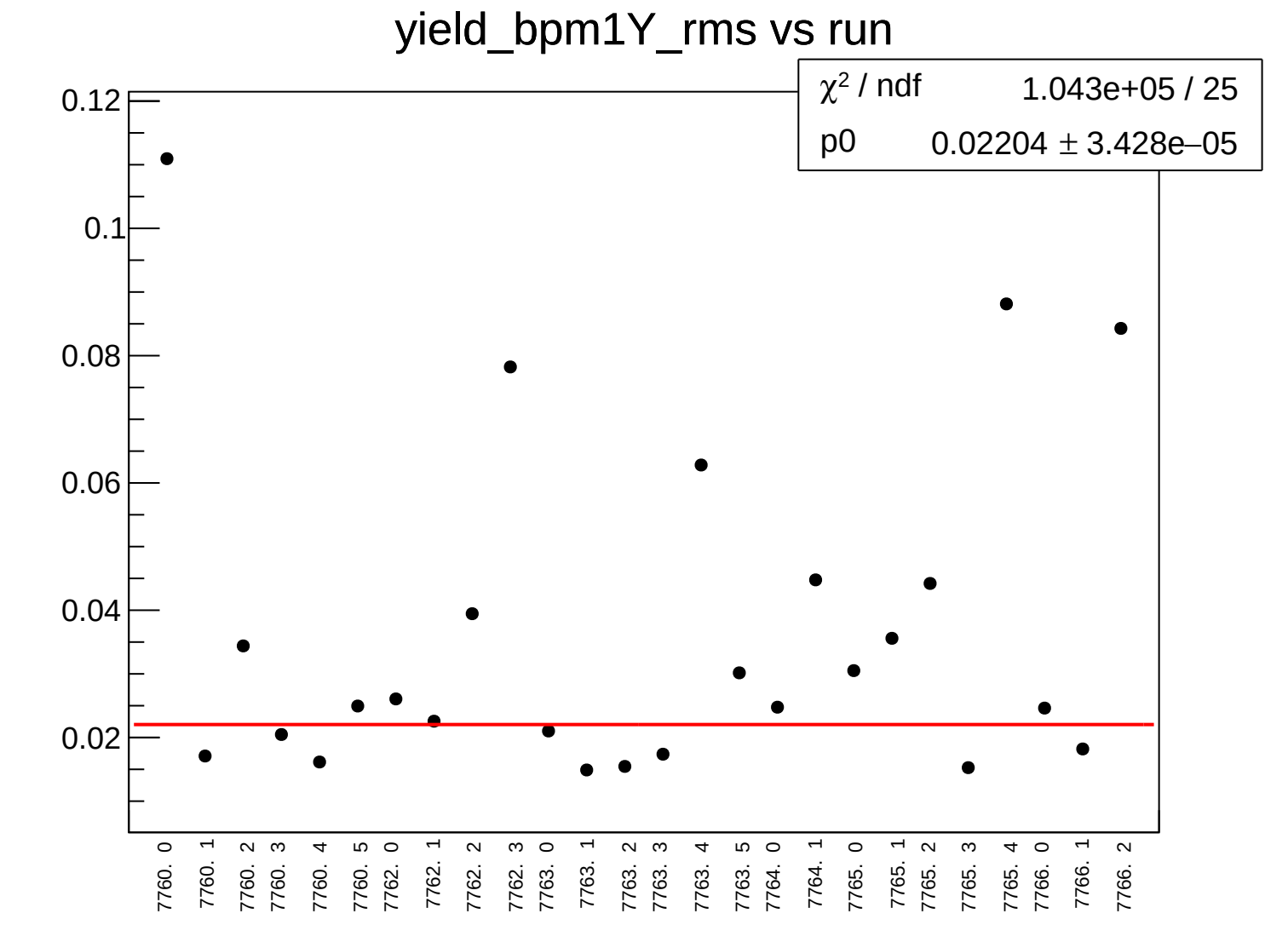

yield_bpm4ecY_rms vs run
χ² / ndf 4.392e+04 / 25
p0 0.01418 ± 2.06e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

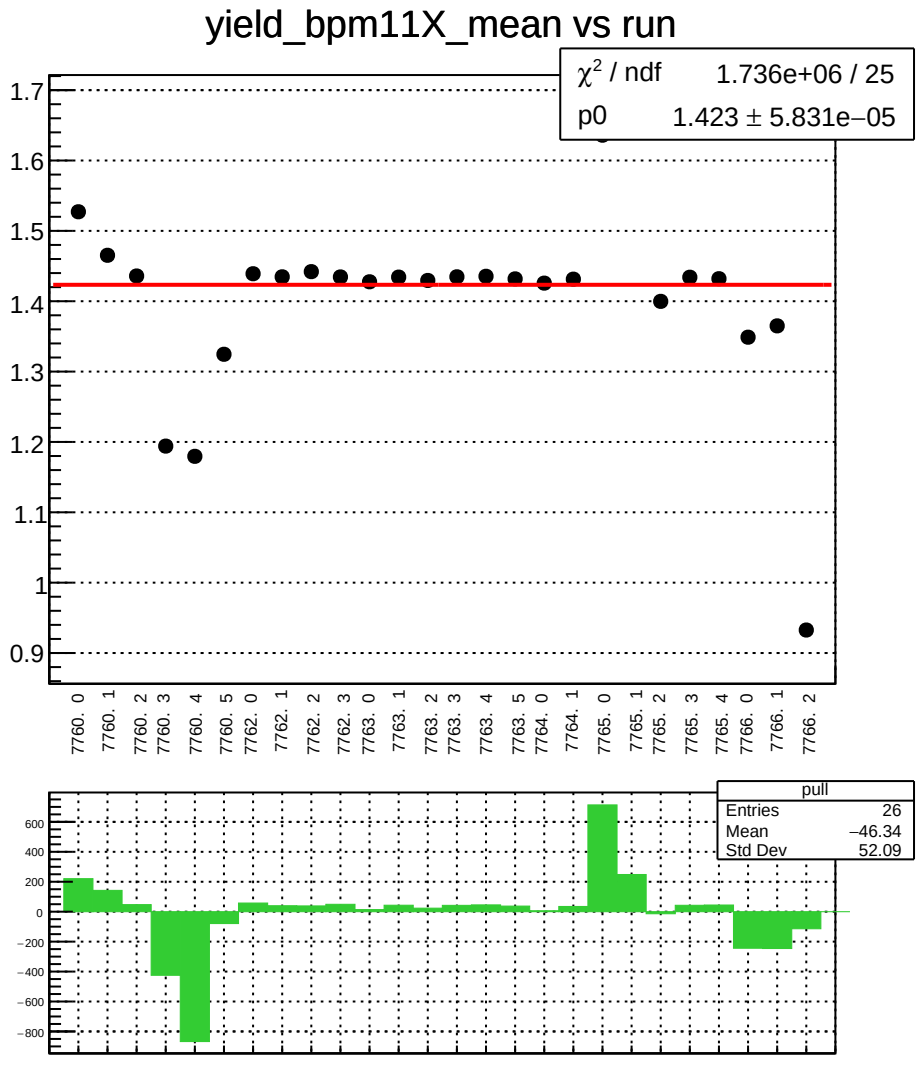

yield_bpm1X_mean vs run
χ² / ndf 7.433e+05 / 25
p0 −0.1417 ± 0.0001473
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 44.4
Std Dev 36.27
500
400
300
200
100
0
−100
−200

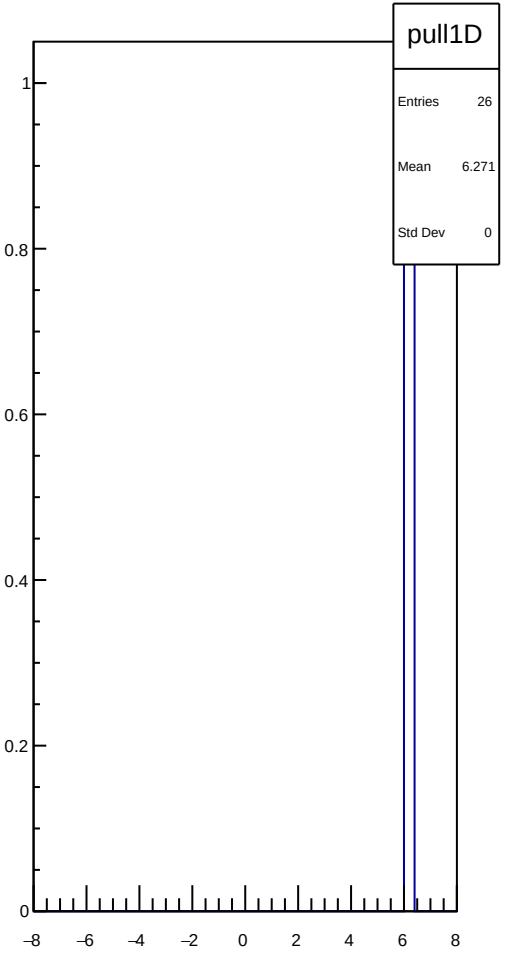

pull1D
Entries 26
Mean 0.8315
Std Dev 2.298
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

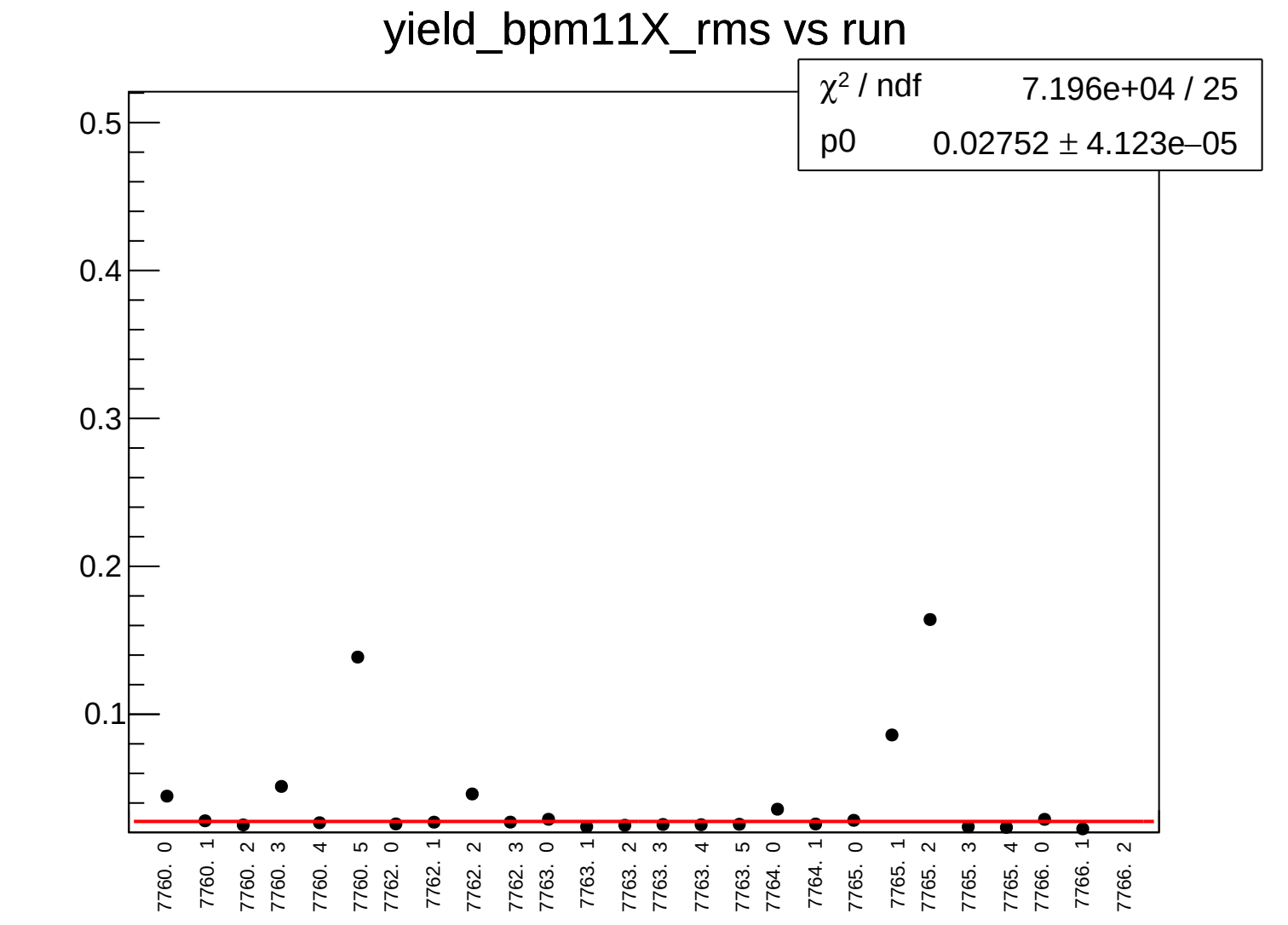

yield_bpm1X_rms vs run
χ² / ndf 6.284e+04 / 25
p0 0.07021 ± 0.0001041
1.2
1
0.8
0.6
0.4
0.2
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

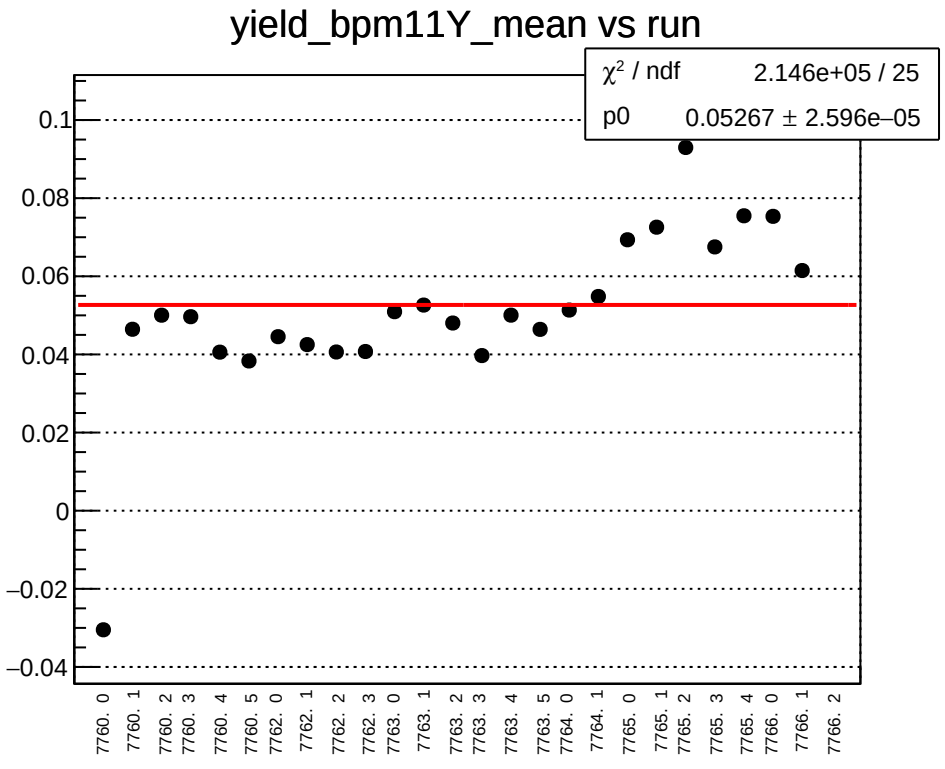

yield_bpm1Y_mean vs run
χ² / ndf 2.542e+06 / 25
p0 0.3158 ± 4.849e−05
0.55
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −32.57
Std Dev 43.14
400
200
0
−200
−400
−600
−800
pull1D
Entries 26
Mean −2.254
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

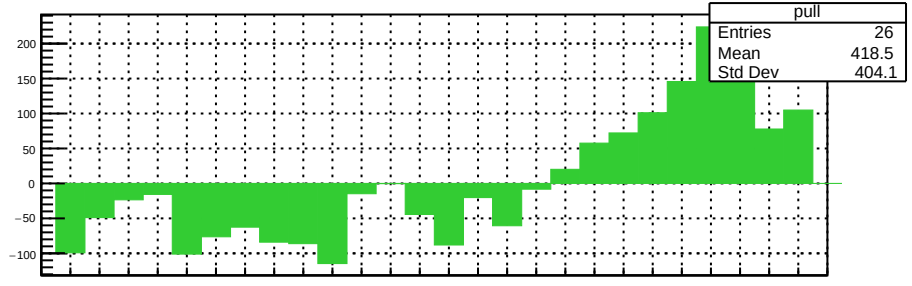

yield_bpm1Y_rms vs run
χ² / ndf 1.043e+05 / 25
p0 0.02204 ± 3.428e–05
0.12
0.1
0.08
0.06
0.04
0.02
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

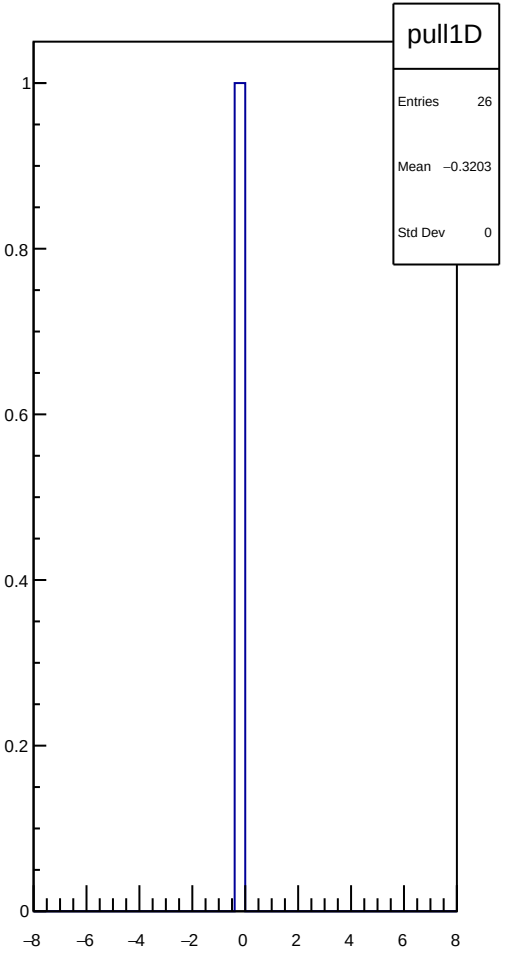

yield_bpm11X_mean vs run
χ² / ndf 1.736e+06 / 25
p0 1.423 ± 5.831e−05
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1
0.9
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −46.34
Std Dev 52.09
600
400
200
0
−200
−400
−600
−800

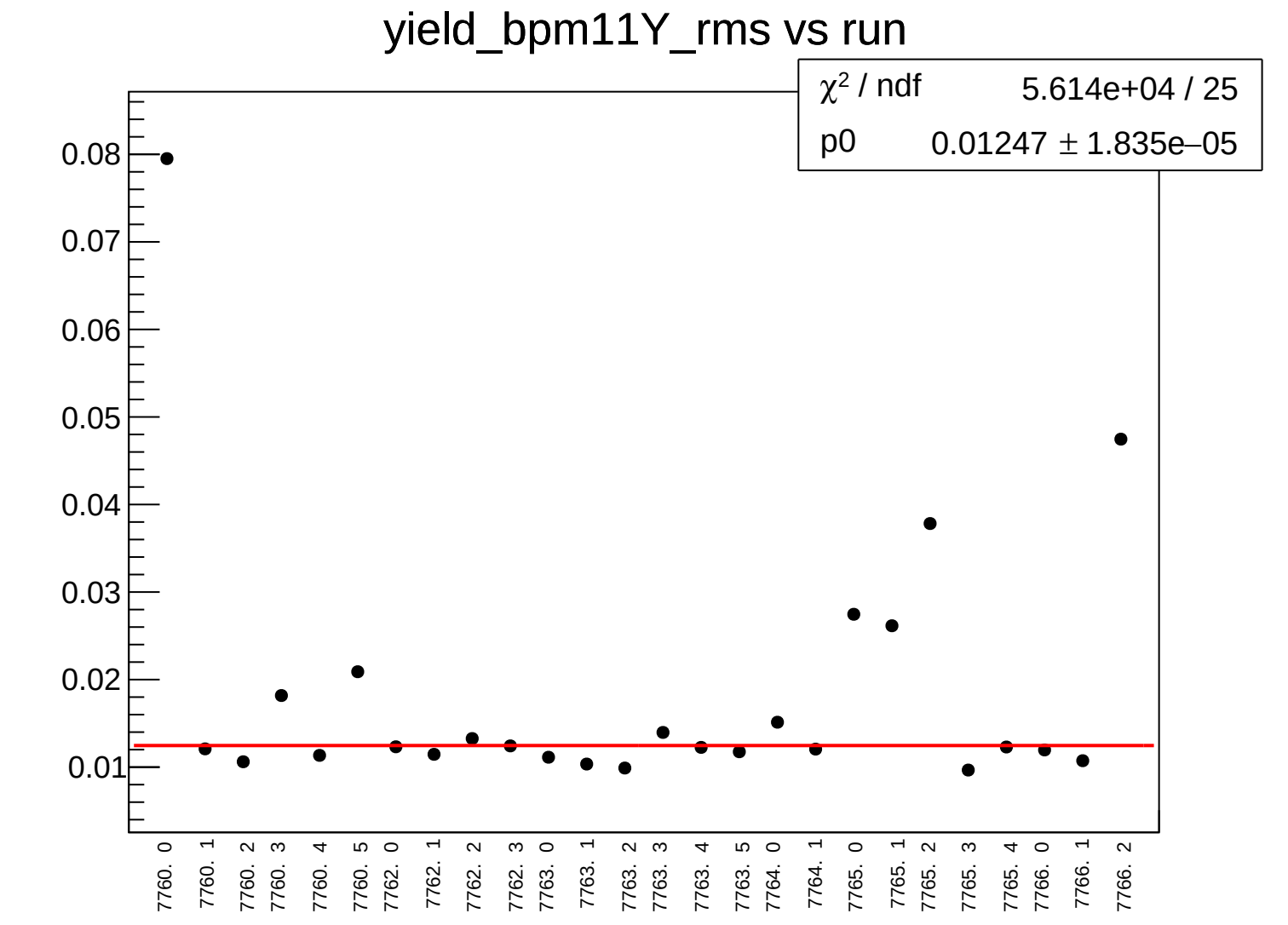

pull1D
Entries 26
Mean 6.271
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

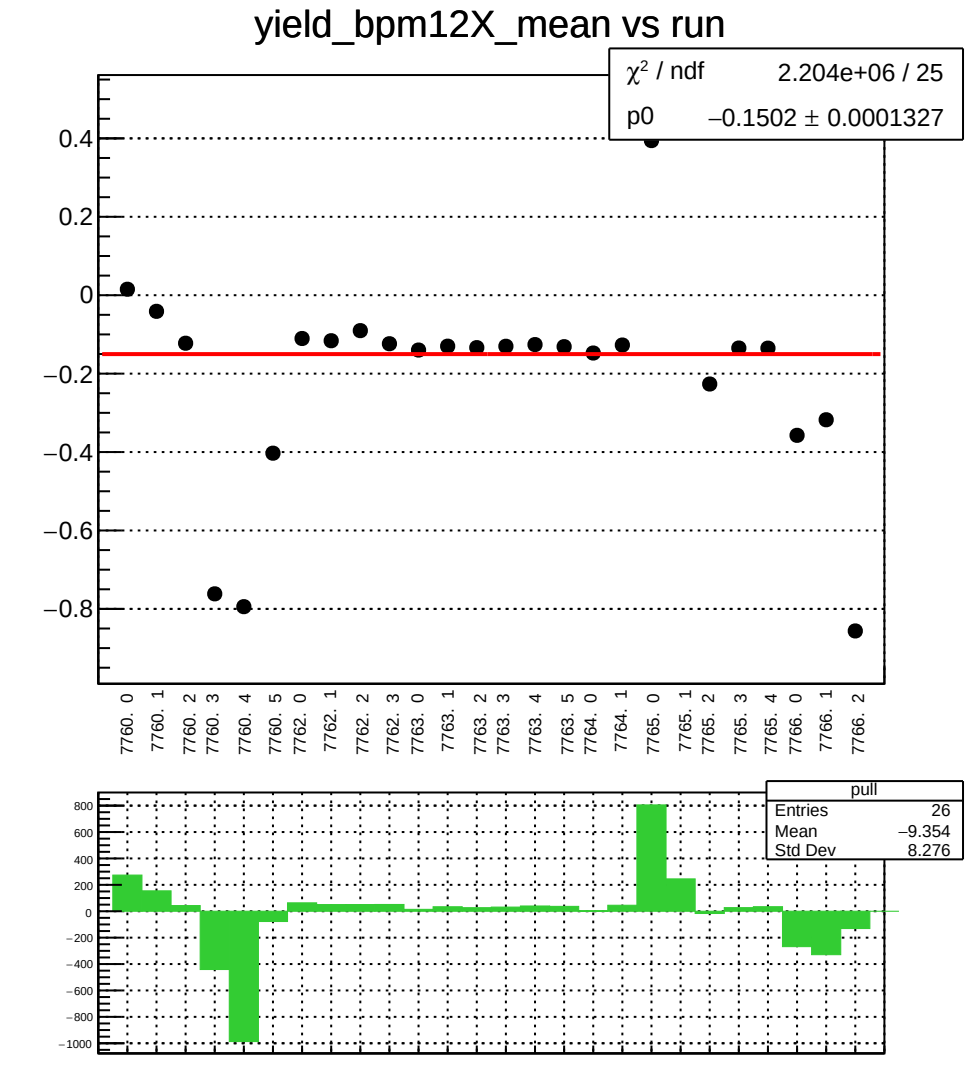

yield_bpm11X_rms vs run
χ² / ndf 7.196e+04 / 25
p0 0.02752 ± 4.123e–05
0.5
0.4
0.3
0.2
0.1
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

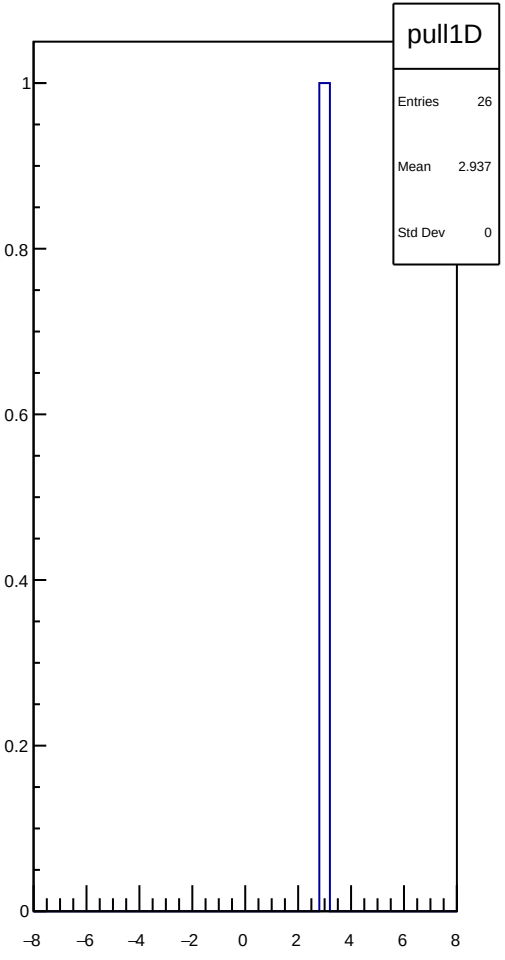

yield_bpm11Y_mean vs run
χ² / ndf 2.146e+05 / 25
p0 0.05267 ± 2.596e−05
0.1
0.08
0.06
0.04
0.02
0
−0.02
−0.04
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

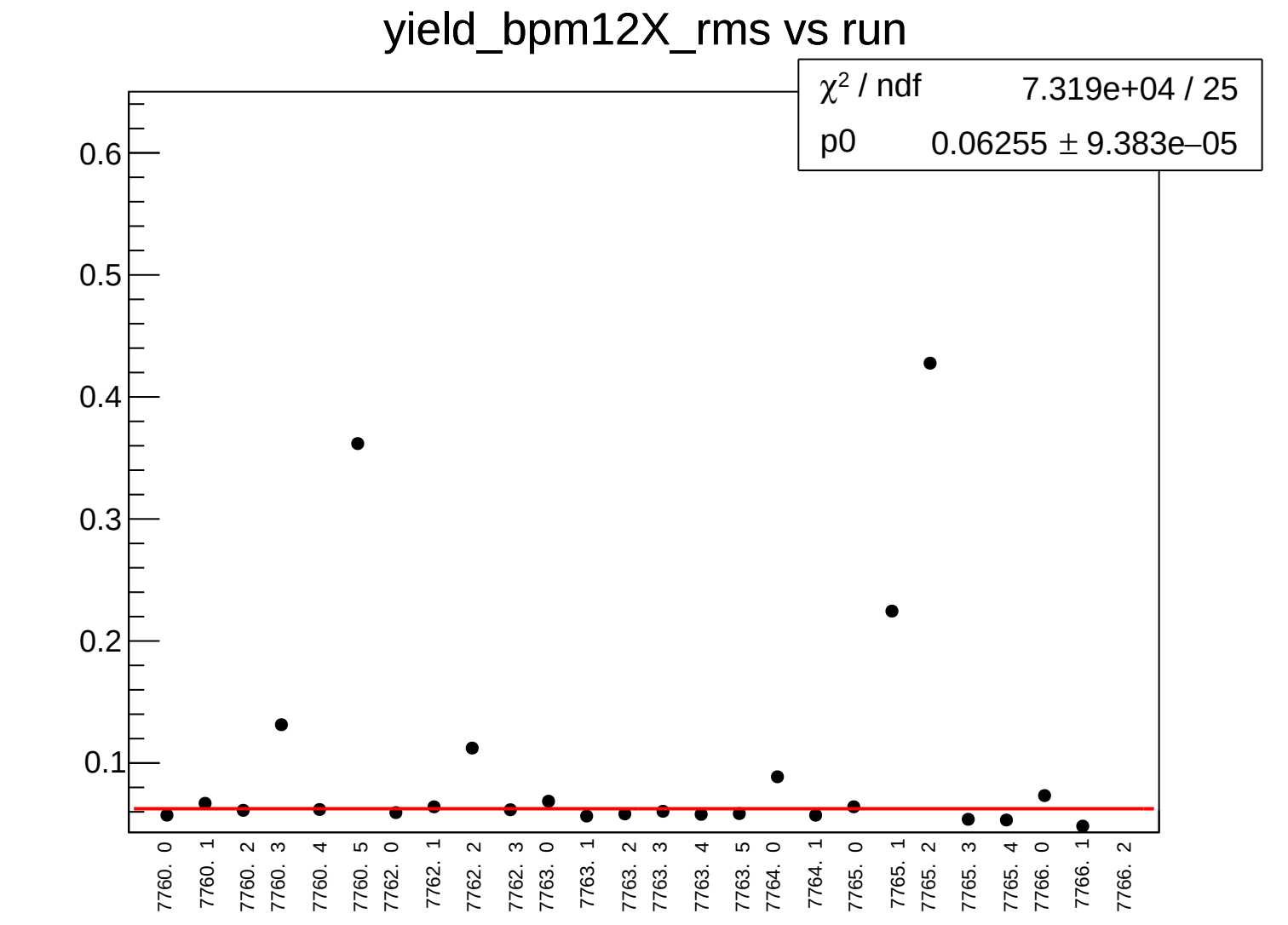

pull
Entries 26
Mean 418.5
Std Dev 404.1
200
150
100
50
0
−50
−100

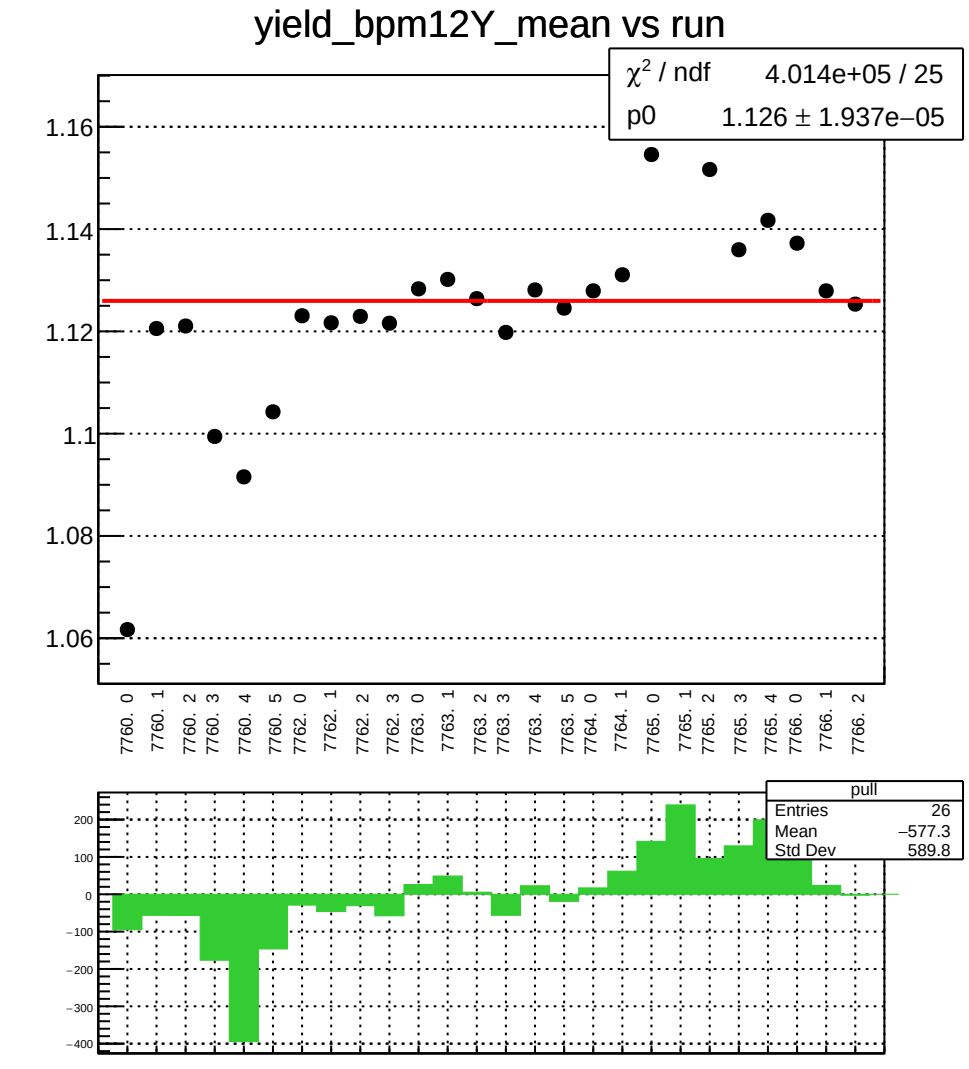

pull1D
Entries 26
Mean −0.3203
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

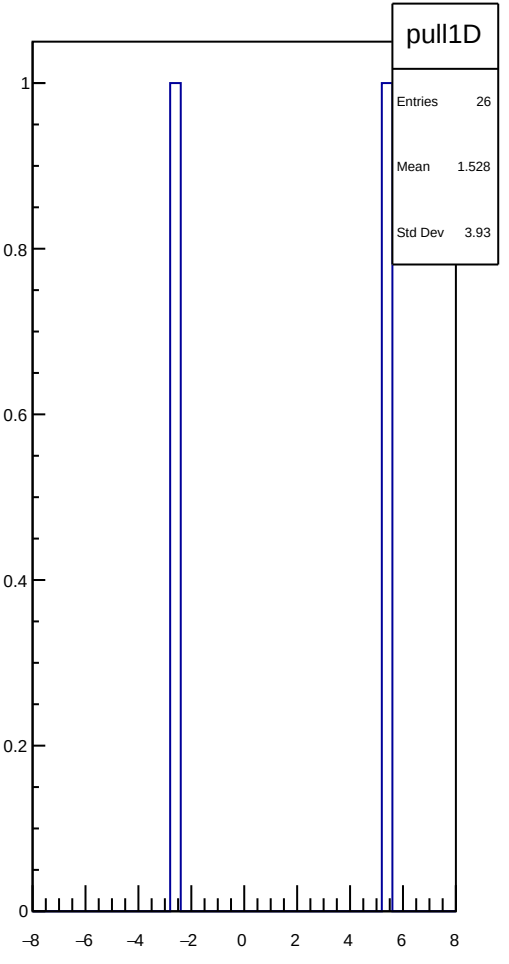

yield_bpm11Y_rms vs run
χ² / ndf 5.614e+04 / 25
p0 0.01247 ± 1.835e−05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

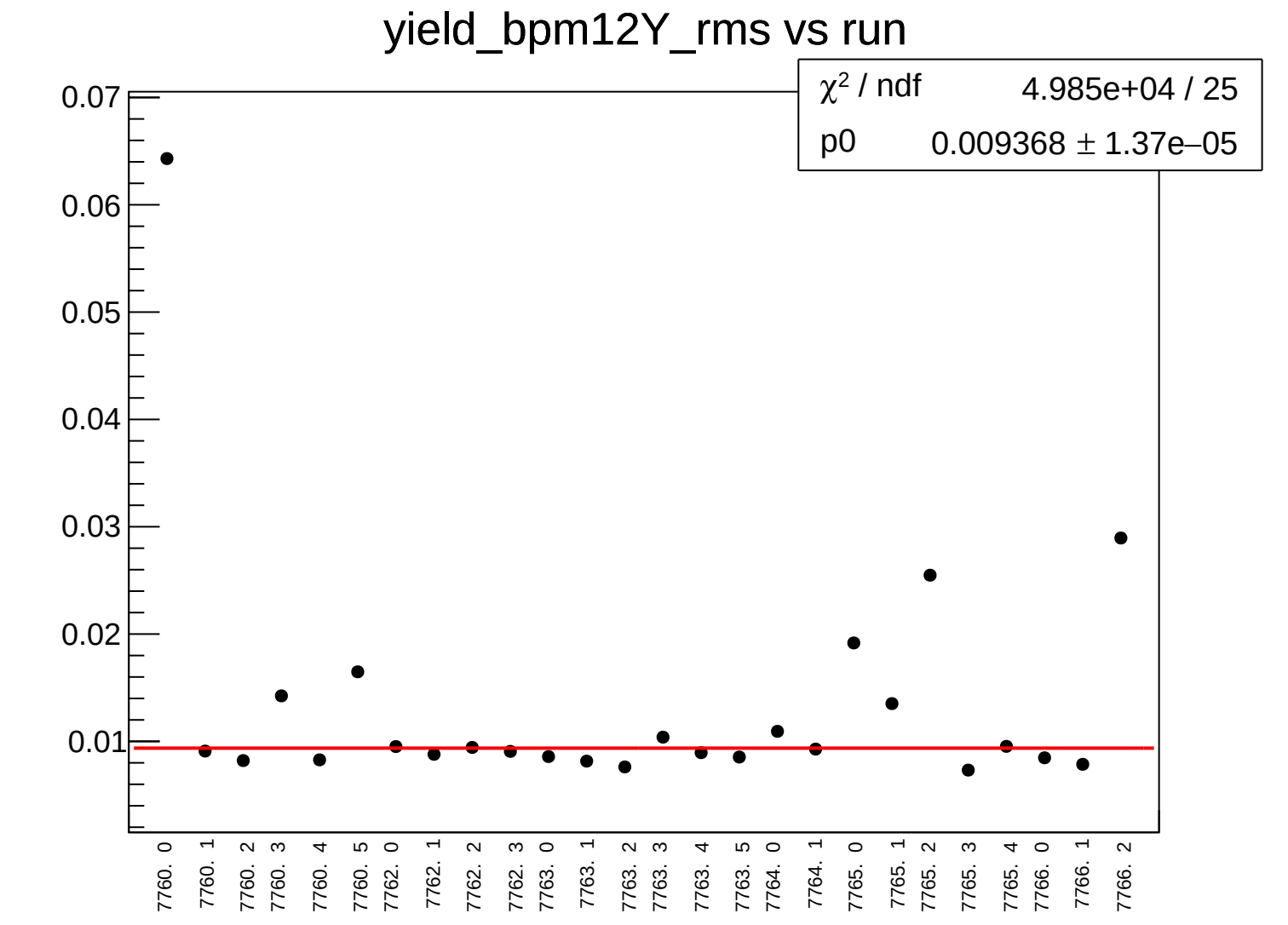

yield_bpm12X_mean vs run
χ² / ndf 2.204e+06 / 25
p0 −0.1502 ± 0.0001327
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −9.354
Std Dev 8.276
800
600
400
200
0
−200
−400
−600
−800
−1000

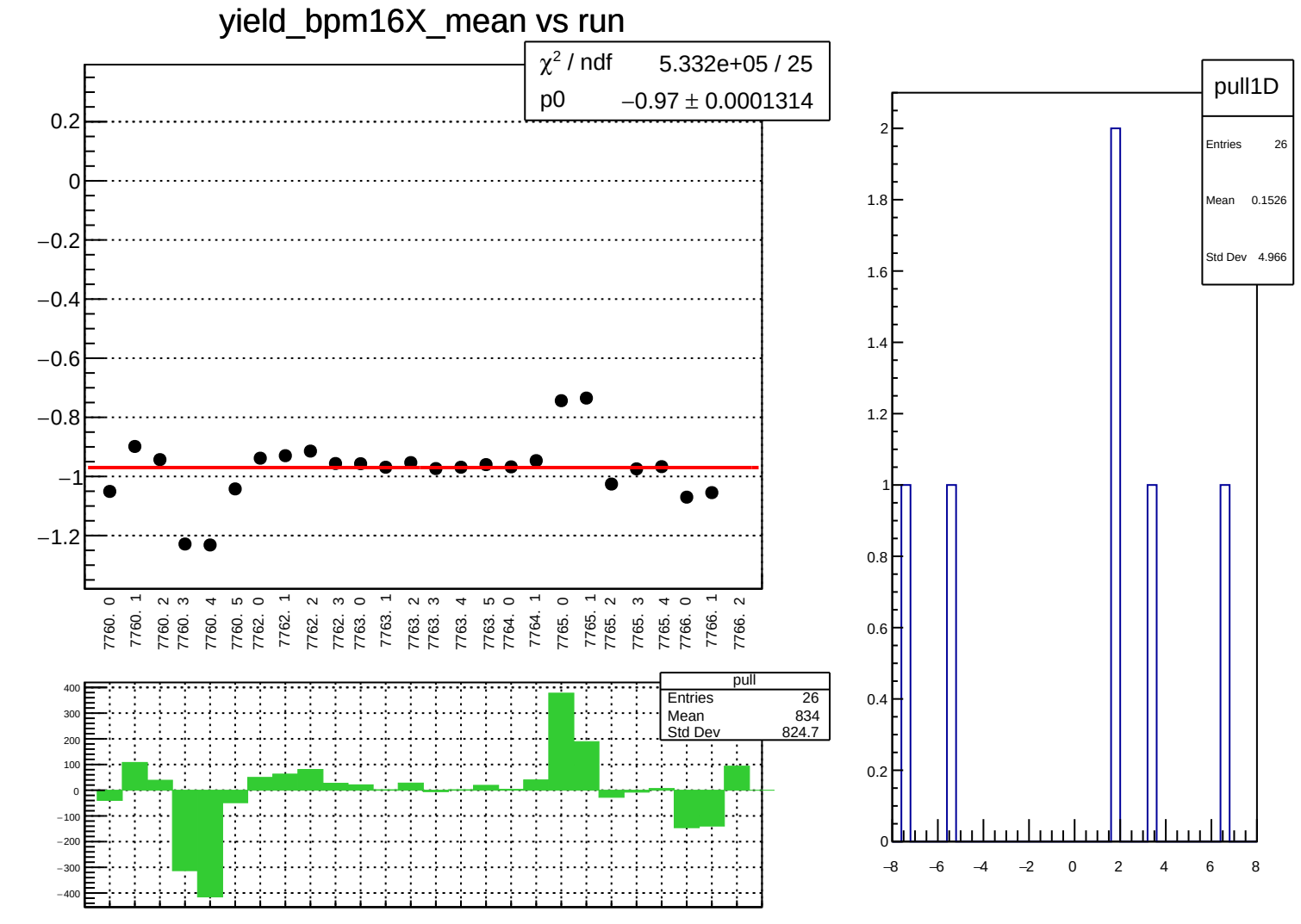

pull1D
Entries 26
Mean 2.937
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

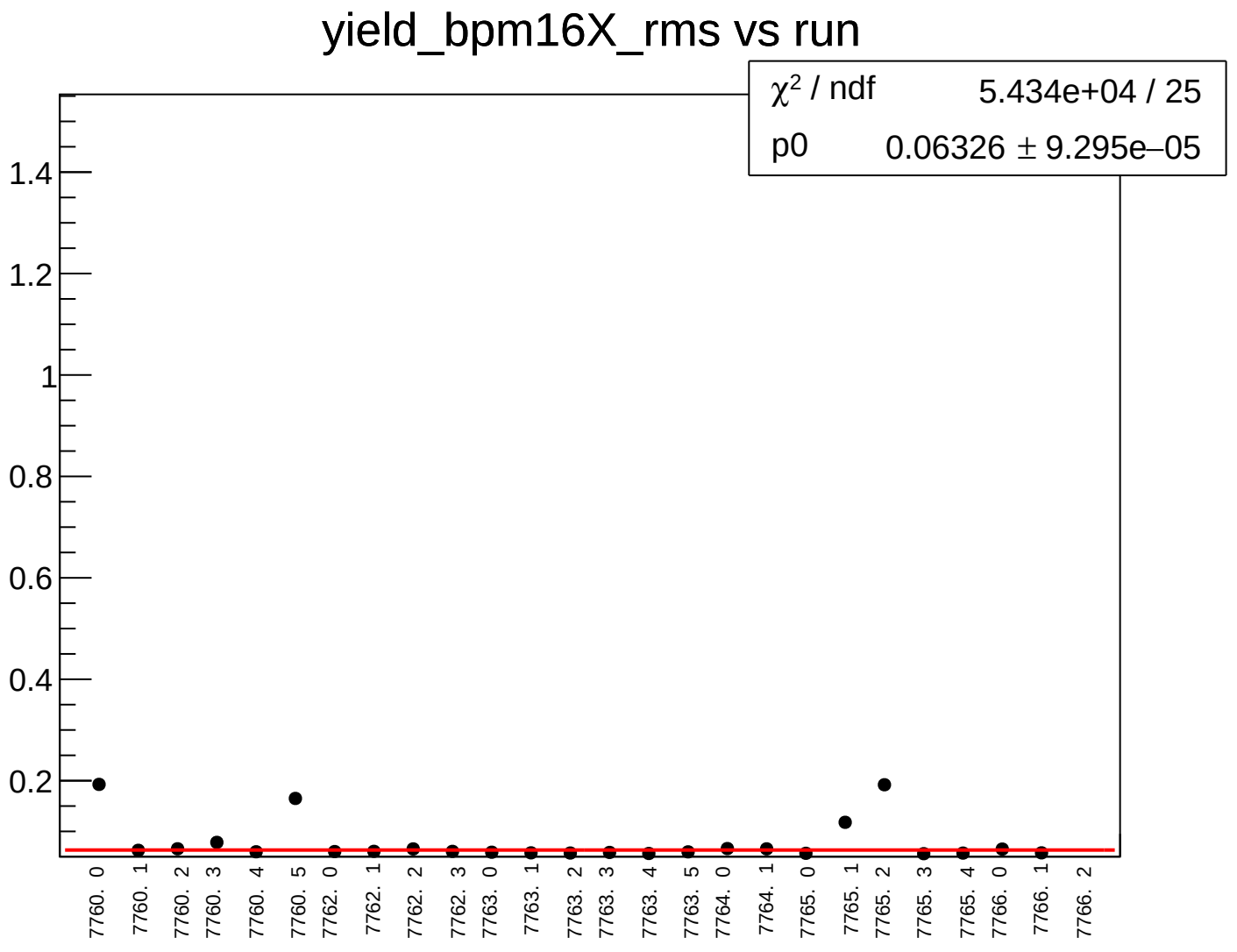

yield_bpm12X_rms vs run
χ² / ndf 7.319e+04 / 25
p0 0.06255 ± 9.383e–05
0.6
0.5
0.4
0.3
0.2
0.1
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

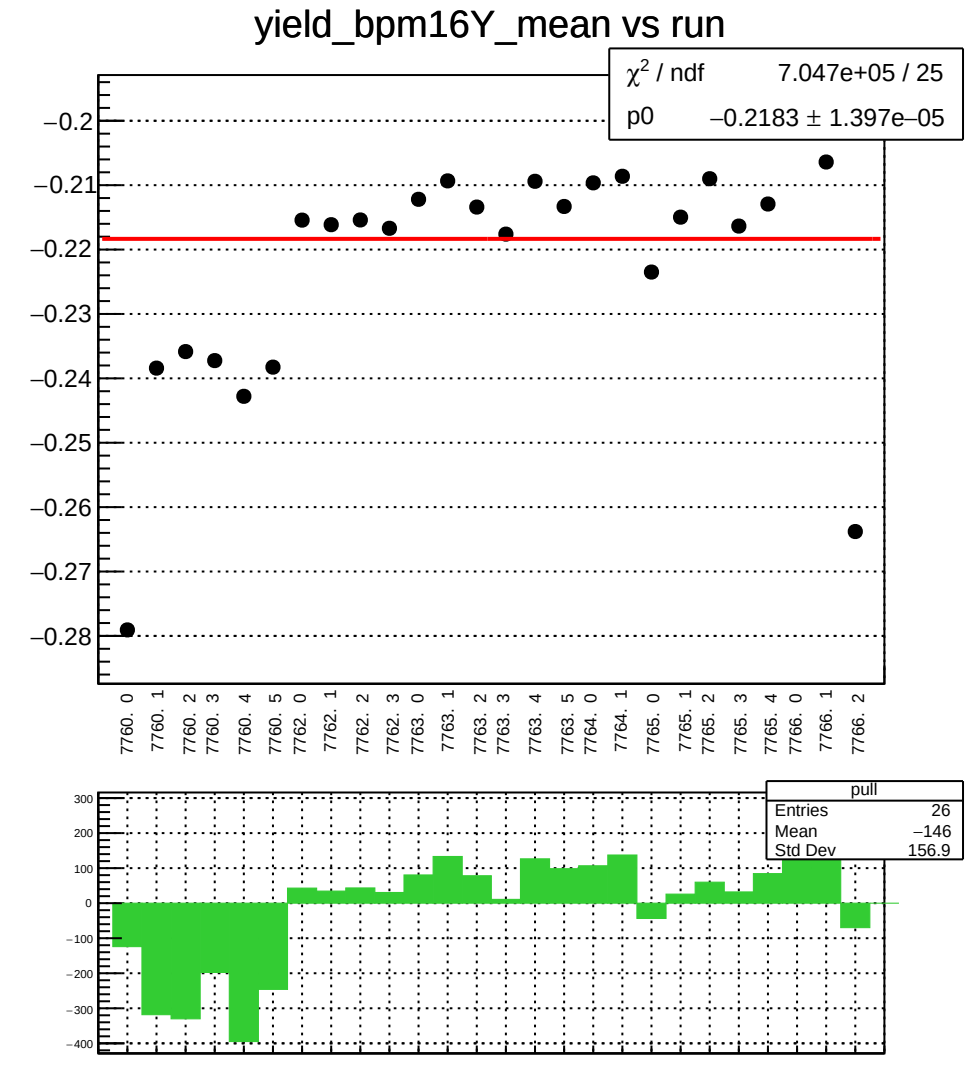

yield_bpm12Y_mean vs run
χ² / ndf 4.014e+05 / 25
p0 1.126 ± 1.937e−05
1.16
1.14
1.12
1.1
1.08
1.06
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −577.3
Std Dev 589.8
200
100
0
−100
−200
−300
−400

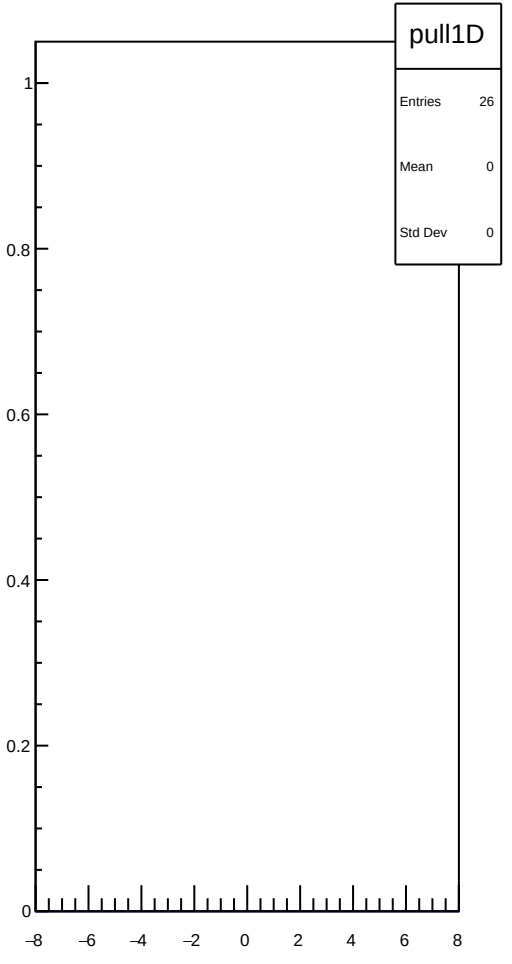

pull1D
Entries 26
Mean 1.528
Std Dev 3.93
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

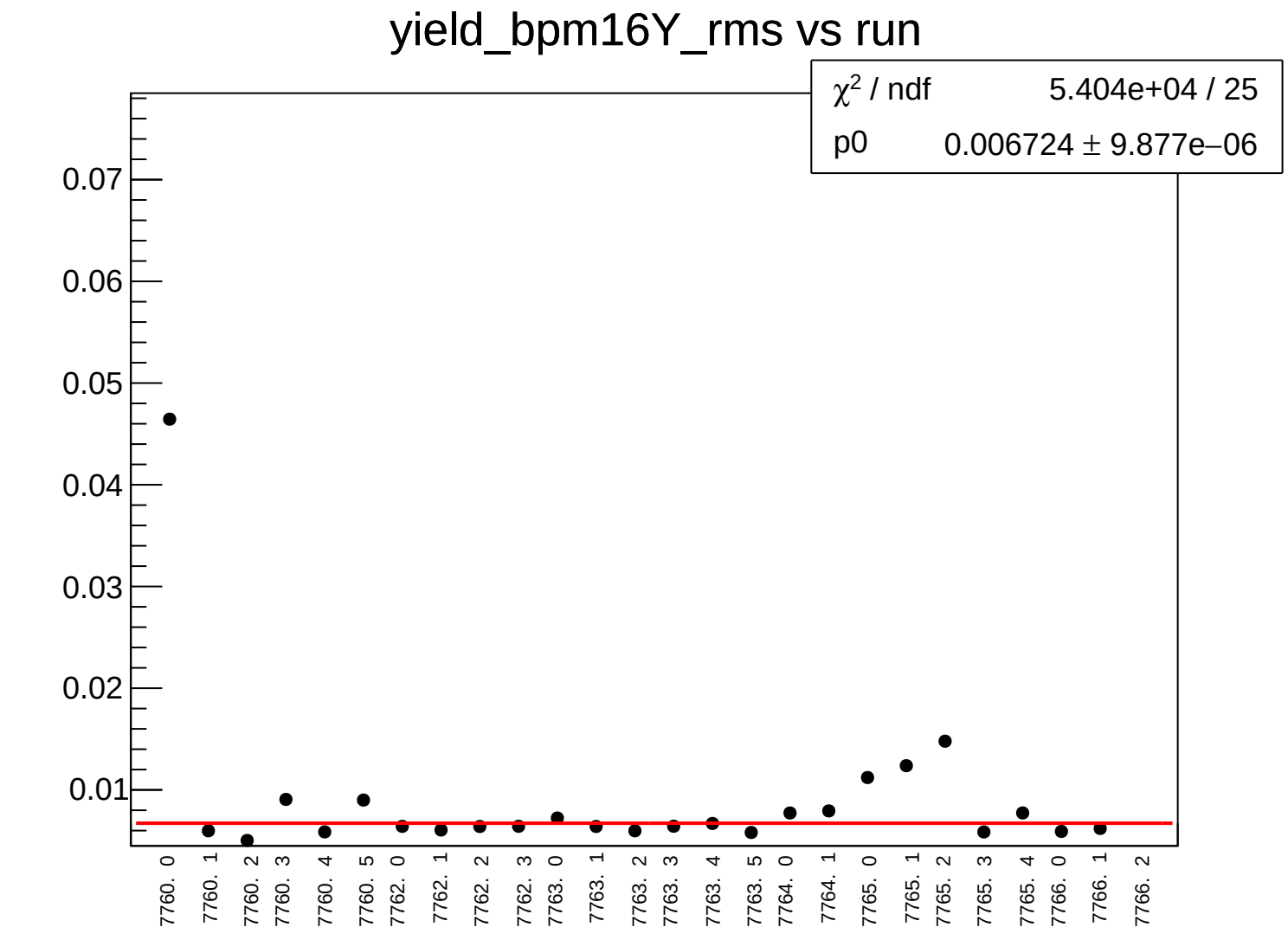

yield_bpm12Y_rms vs run
χ² / ndf 4.985e+04 / 25
p0 0.009368 ± 1.37e–05
0.07
0.06
0.05
0.04
0.03
0.02
0.01
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

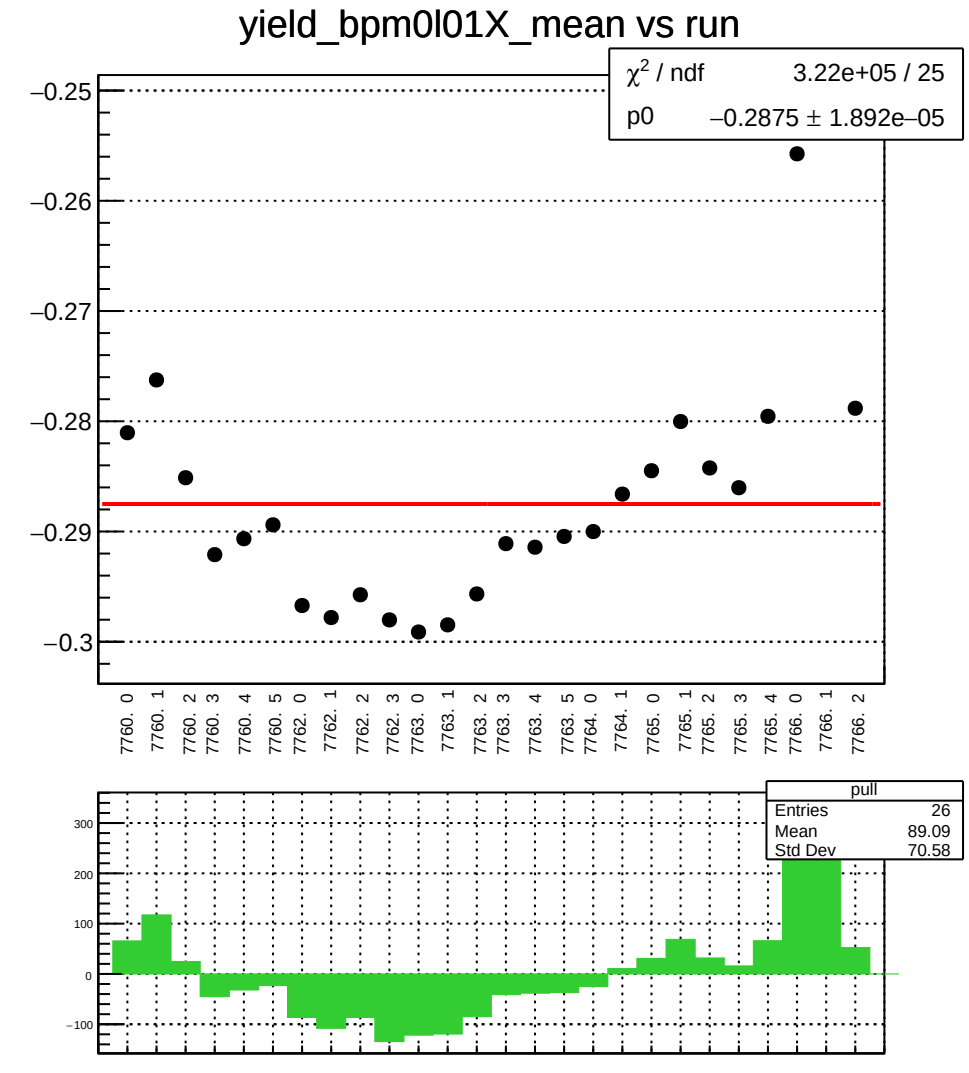

yield_bpm16X_mean vs run
χ² / ndf 5.332e+05 / 25
p0 −0.97 ± 0.0001314
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 834
Std Dev 824.7
400
300
200
100
0
−100
−200
−300
−400
pull1D
Entries 26
Mean 0.1526
Std Dev 4.966
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

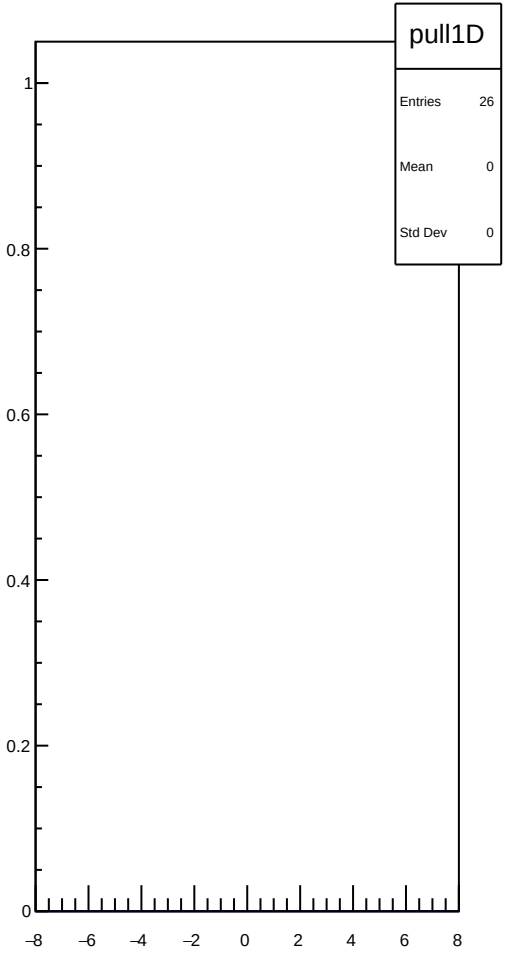

yield_bpm16X_rms vs run
χ² / ndf 5.434e+04 / 25
p0 0.06326 ± 9.295e–05
1.4
1.2
1
0.8
0.6
0.4
0.2
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

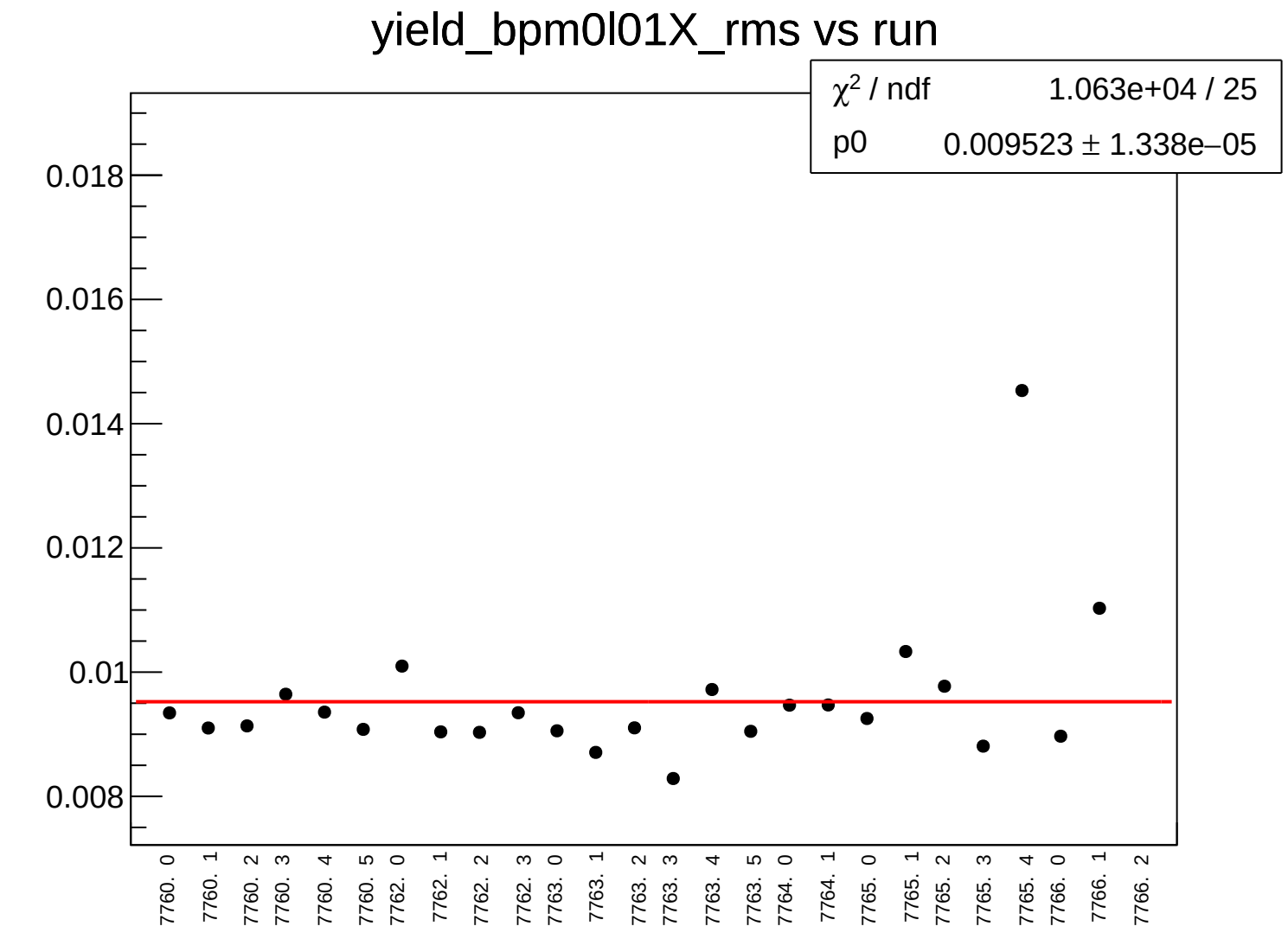

yield_bpm16Y_mean vs run
χ² / ndf 7.047e+05 / 25
p0 −0.2183 ± 1.397e−05
−0.2
−0.21
−0.22
−0.23
−0.24
−0.25
−0.26
−0.27
−0.28
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −146
Std Dev 156.9
300
200
100
0
−100
−200
−300
−400

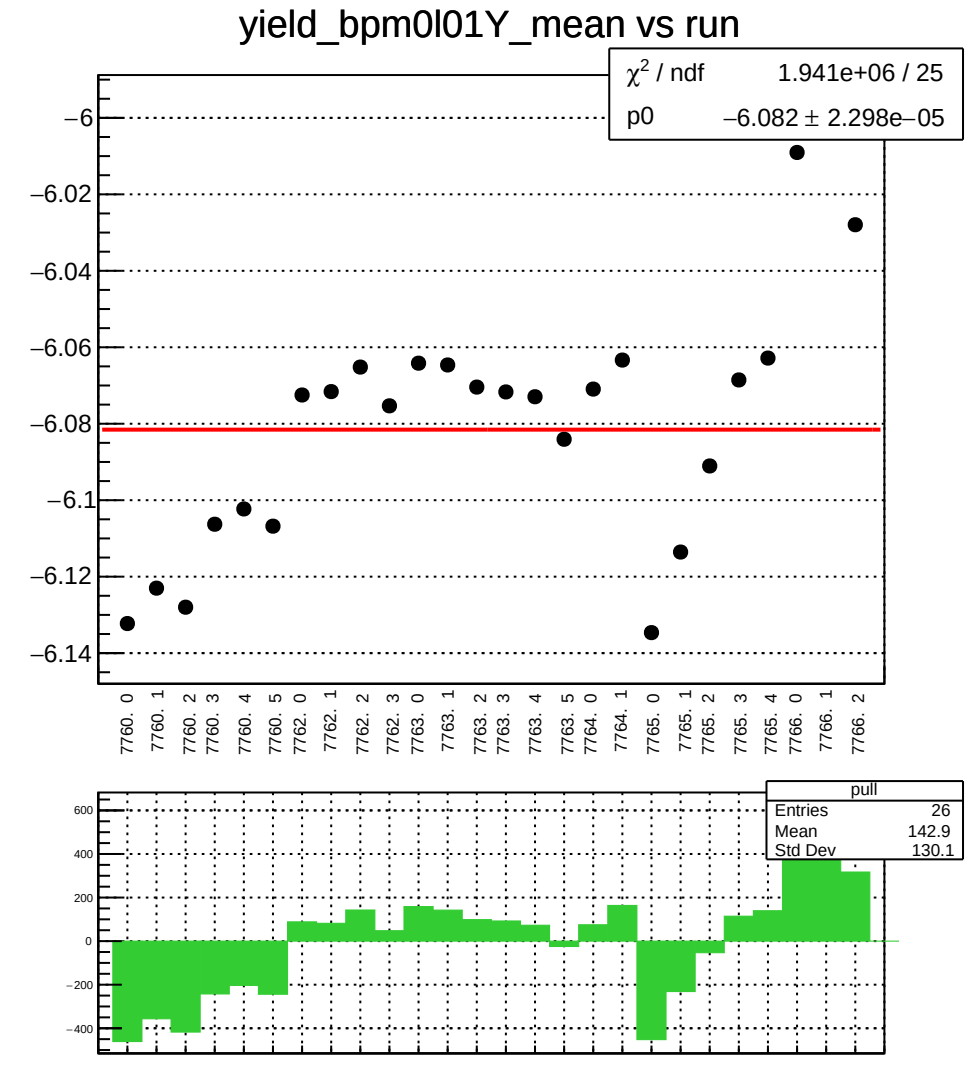

pull1D
Entries 26
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

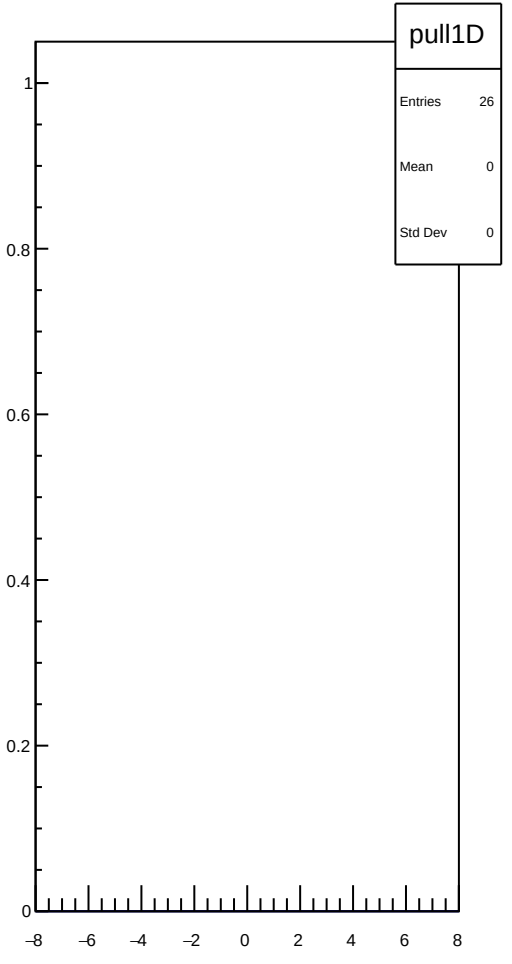

yield_bpm16Y_rms vs run
χ² / ndf 5.404e+04 / 25
p0 0.006724 ± 9.877e−06
0.07
0.06
0.05
0.04
0.03
0.02
0.01
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

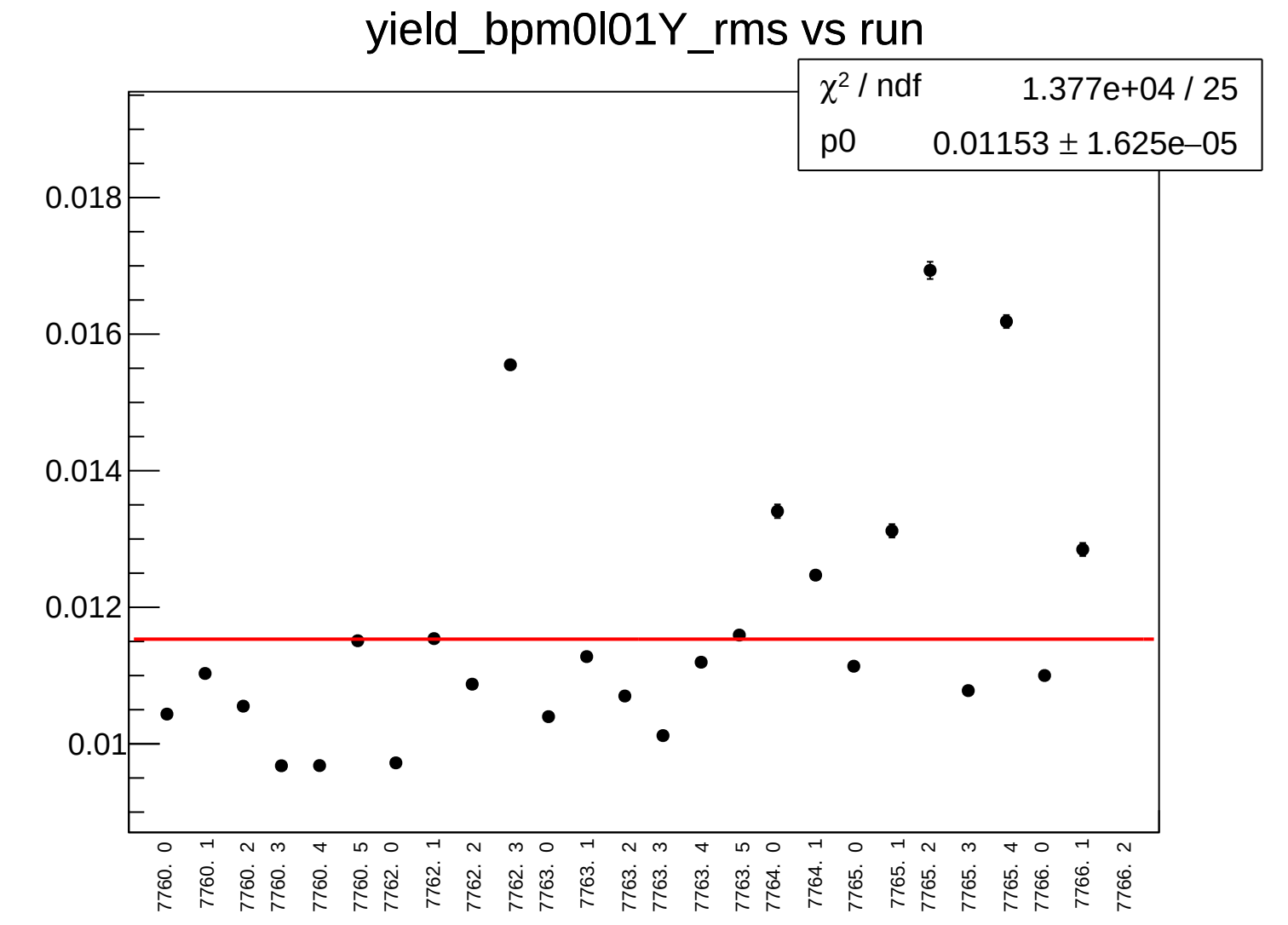

yield_bpm0l01X_mean vs run
χ² / ndf 3.22e+05 / 25
p0 −0.2875 ± 1.892e−05
−0.25
−0.26
−0.27
−0.28
−0.29
−0.3
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 89.09
Std Dev 70.58
300
200
100
0
−100

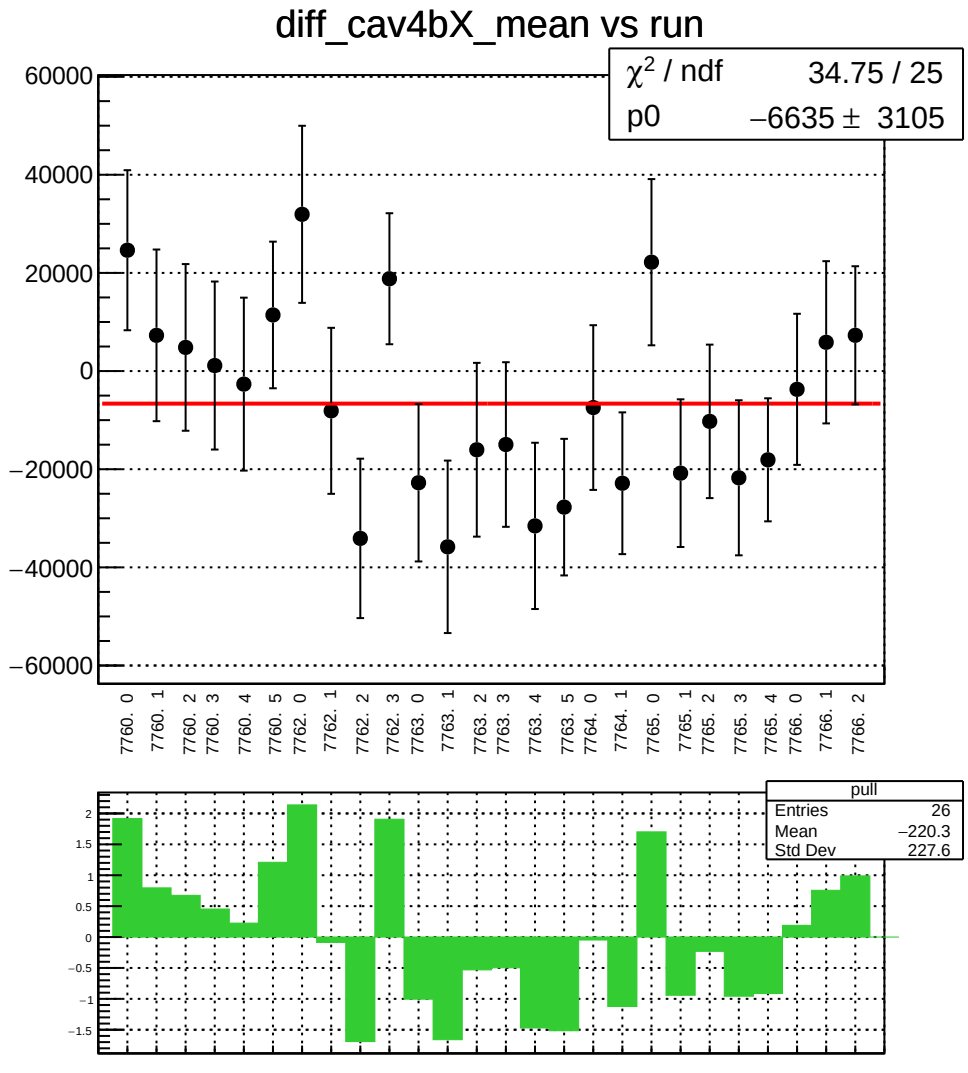

pull1D
Entries 26
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

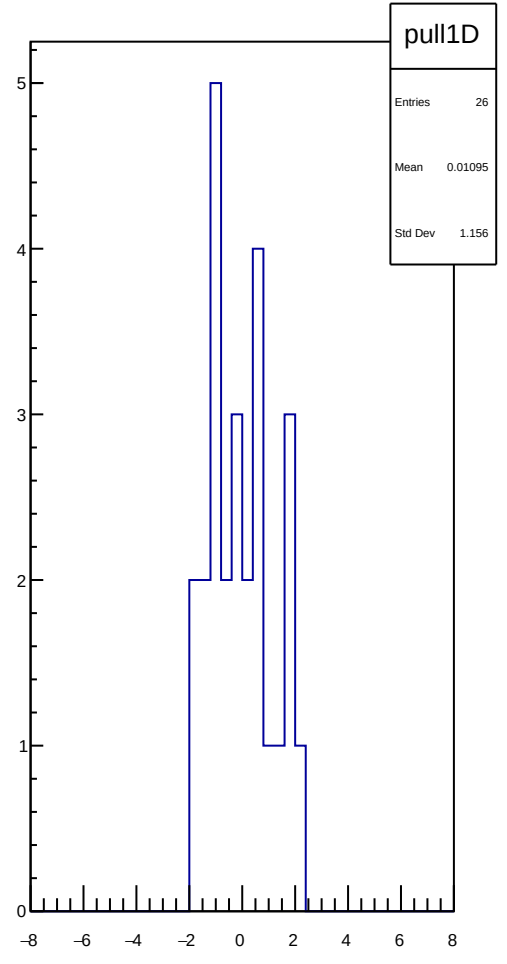

yield_bpm0l01X_rms vs run
χ² / ndf 1.063e+04 / 25
p0 0.009523 ± 1.338e−05
0.018
0.016
0.014
0.012
0.01
0.008
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

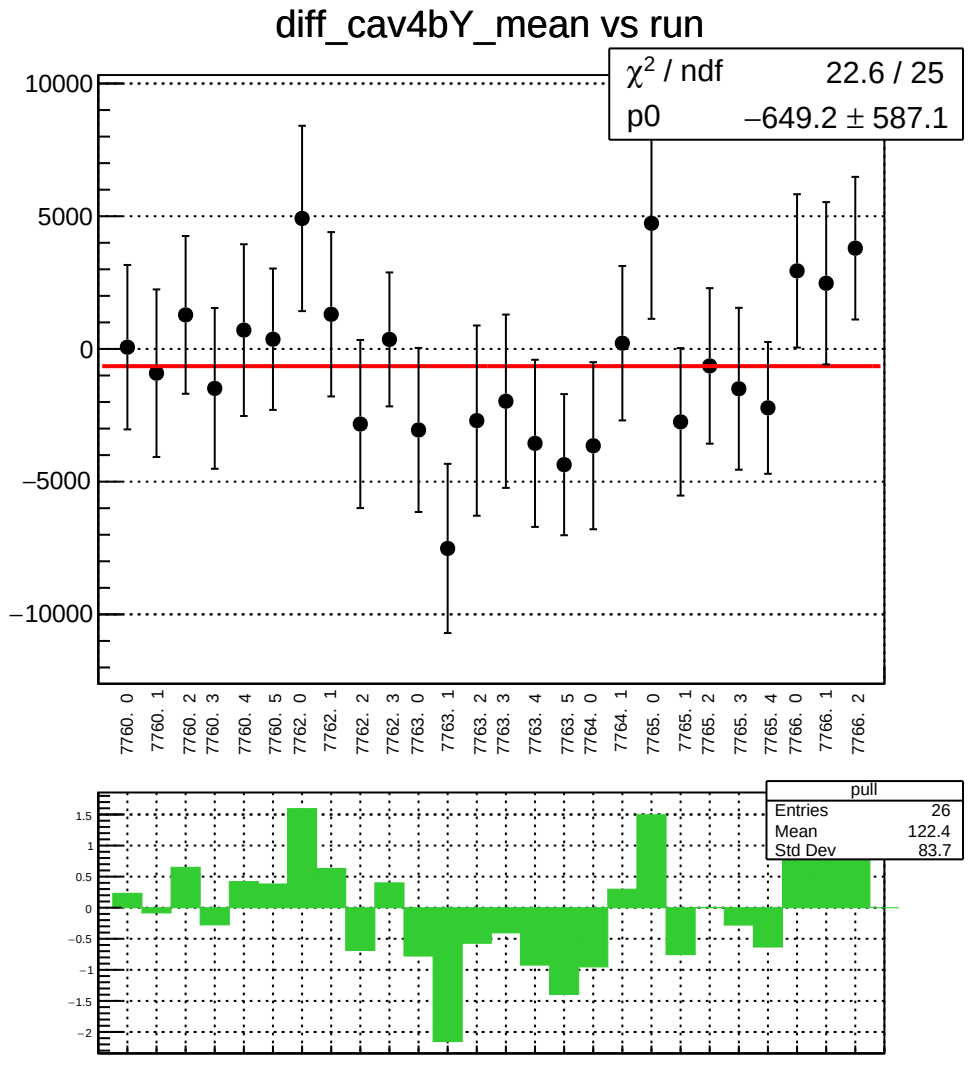

yield_bpm0l01Y_mean vs run
χ² / ndf 1.941e+06 / 25
p0 −6.082 ± 2.298e−05
−6
−6.02
−6.04
−6.06
−6.08
−6.1
−6.12
−6.14
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 142.9
Std Dev 130.1
600
400
200
0
−200
−400

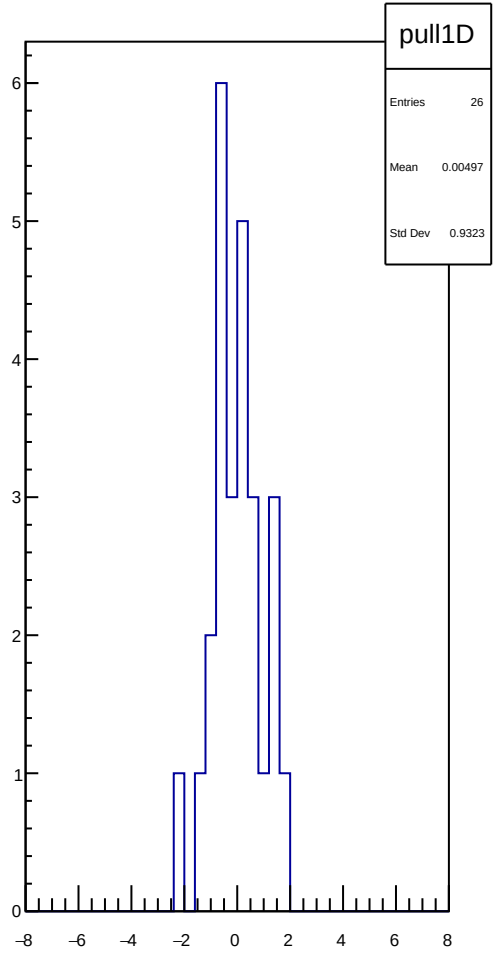

pull1D
Entries 26
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

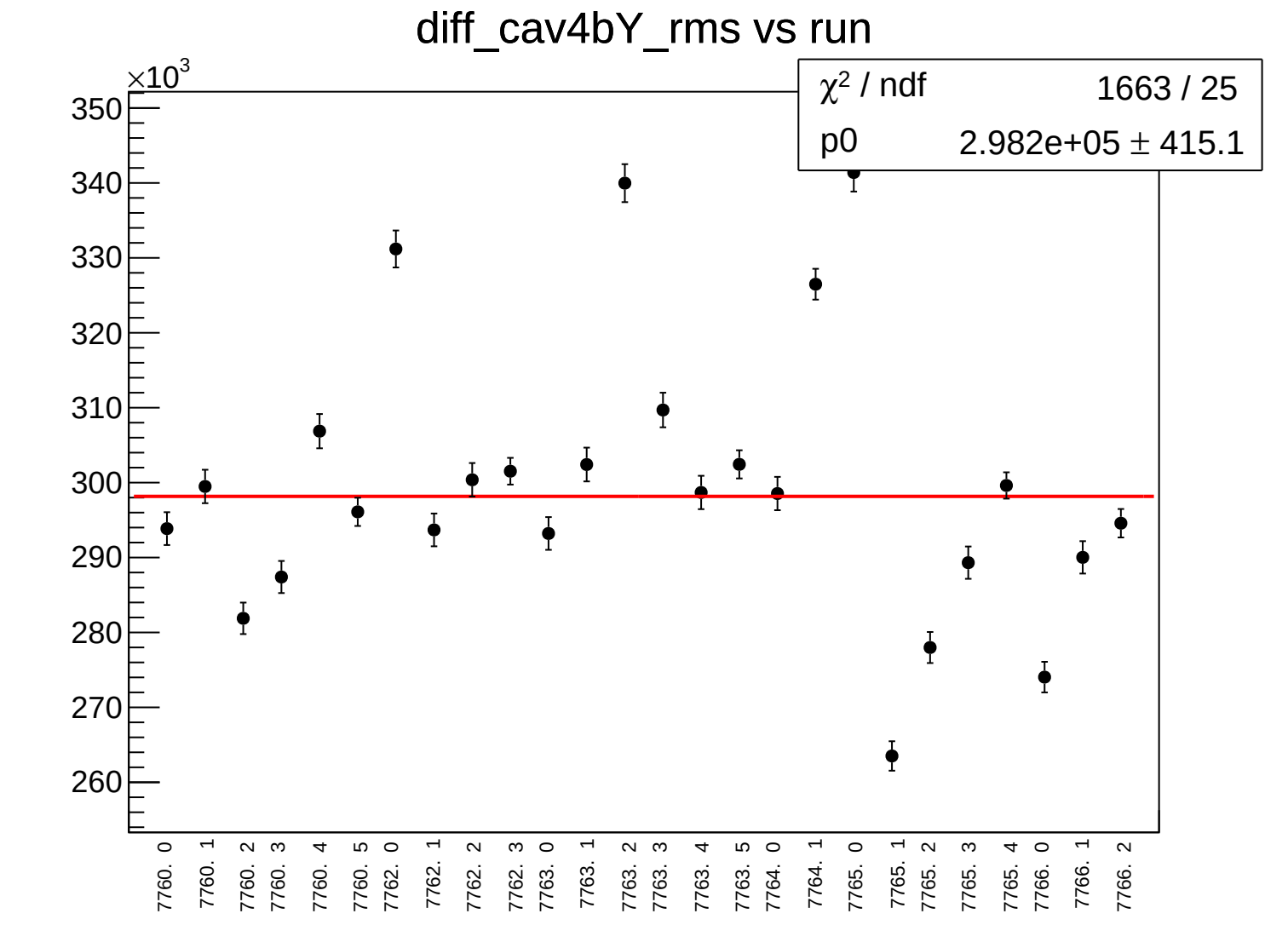

yield_bpm0l01Y_rms vs run
χ² / ndf 1.377e+04 / 25
p0 0.01153 ± 1.625e−05
0.018
0.016
0.014
0.012
0.01
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

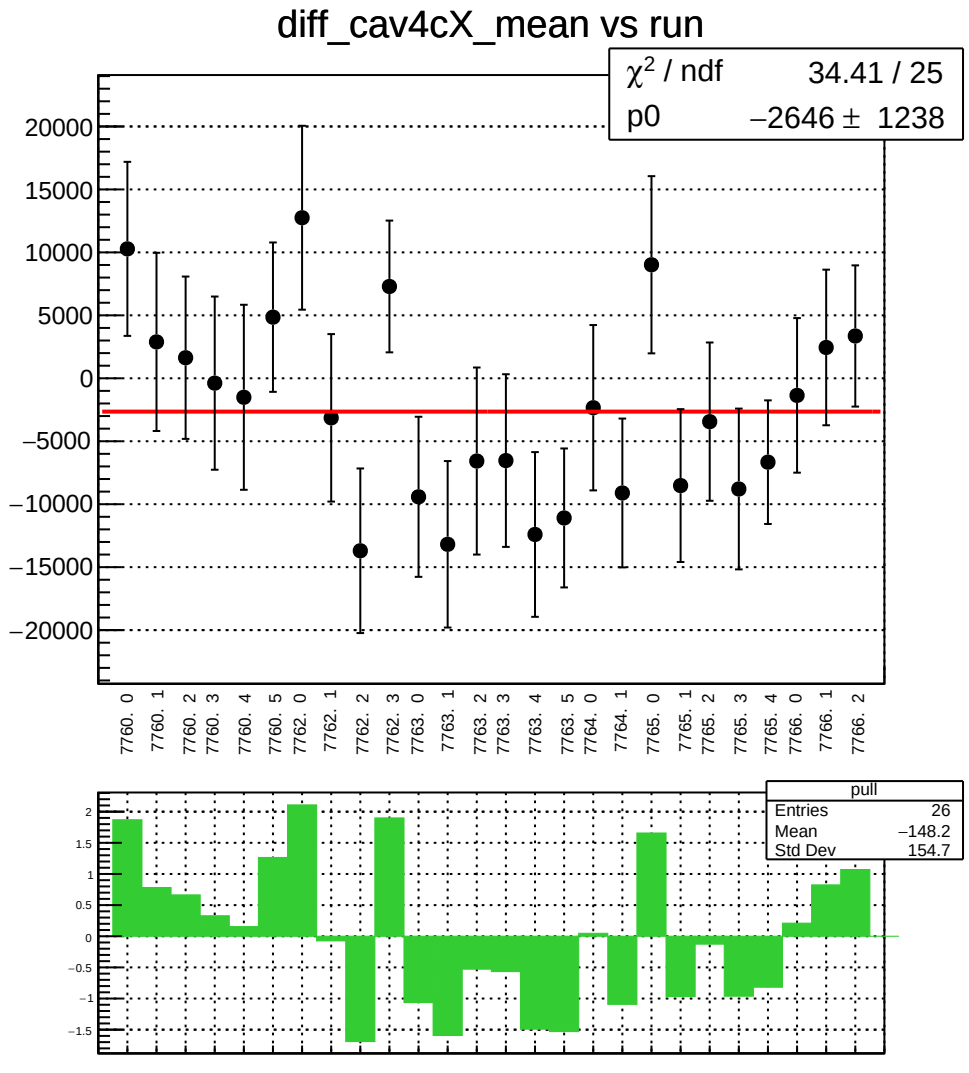

diff_cav4bX_mean vs run
χ² / ndf 34.75 / 25
p0 −6635 ± 3105
60000
40000
20000
0
−20000
−40000
−60000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −220.3
Std Dev 227.6
2
1.5
1
0.5
0
−0.5
−1
−1.5

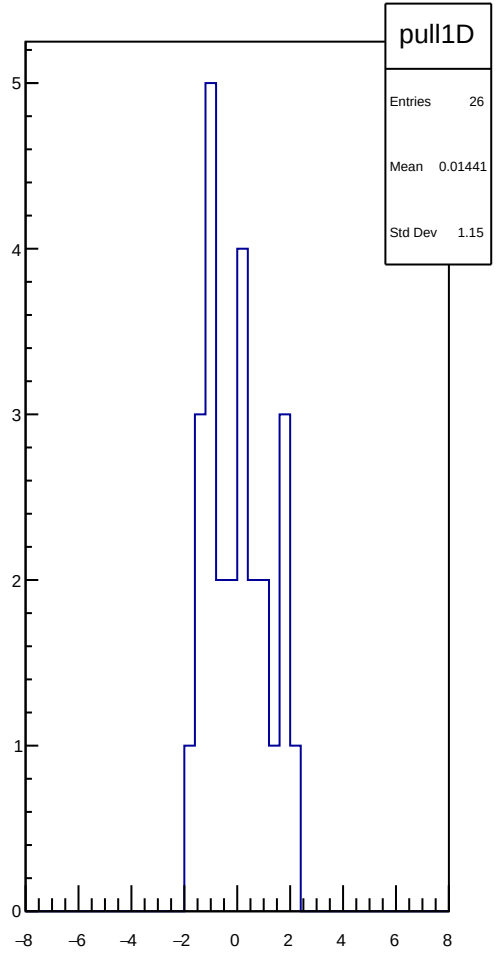

pull1D
Entries 26
Mean 0.01095
Std Dev 1.156
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

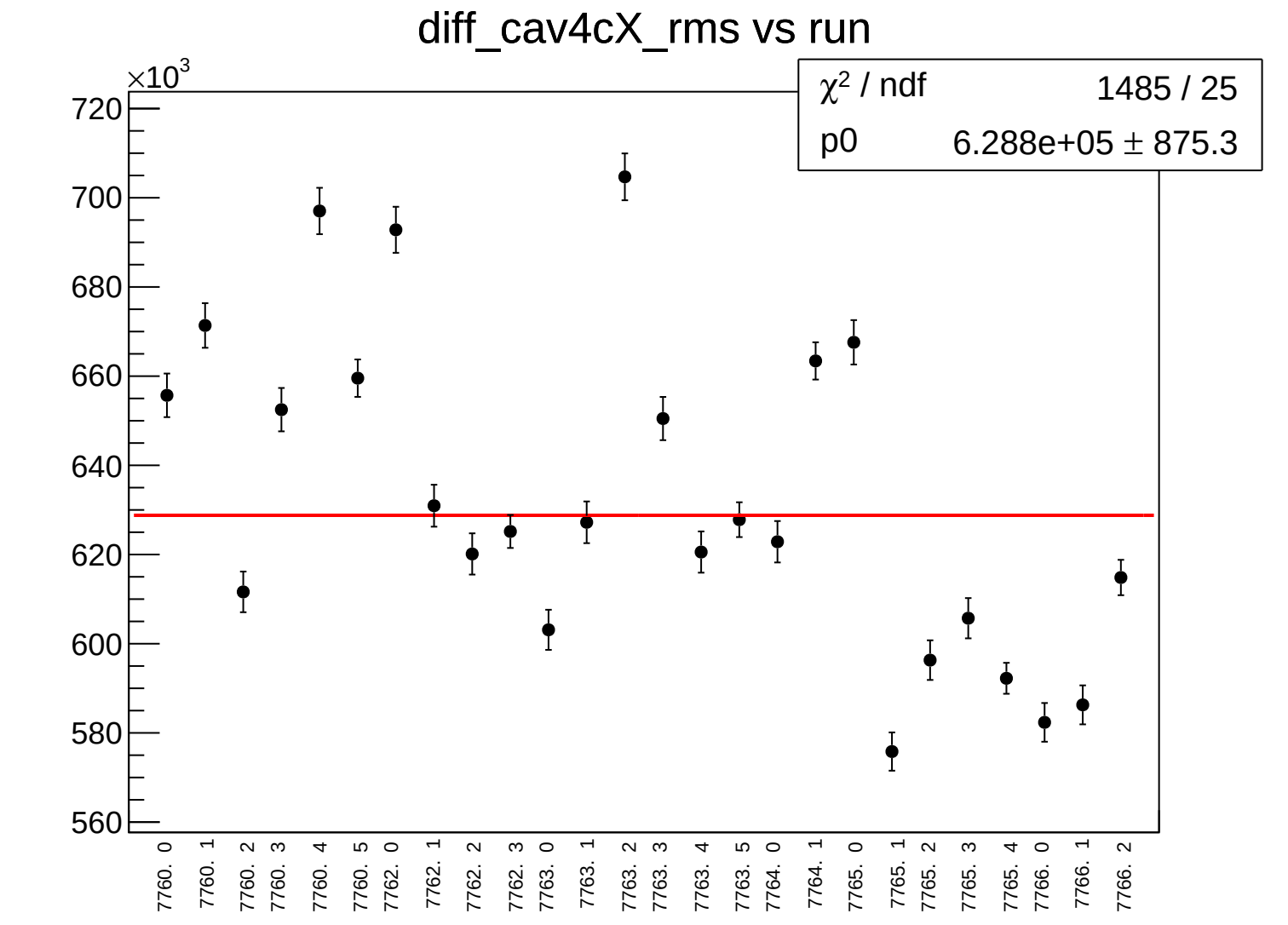

diff_cav4bY_mean vs run
χ² / ndf 22.6 / 25
p0 −649.2 ± 587.1
10000
5000
0
−5000
−10000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 122.4
Std Dev 83.7
1.5
1
0.5
0
−0.5
−1
−1.5
−2

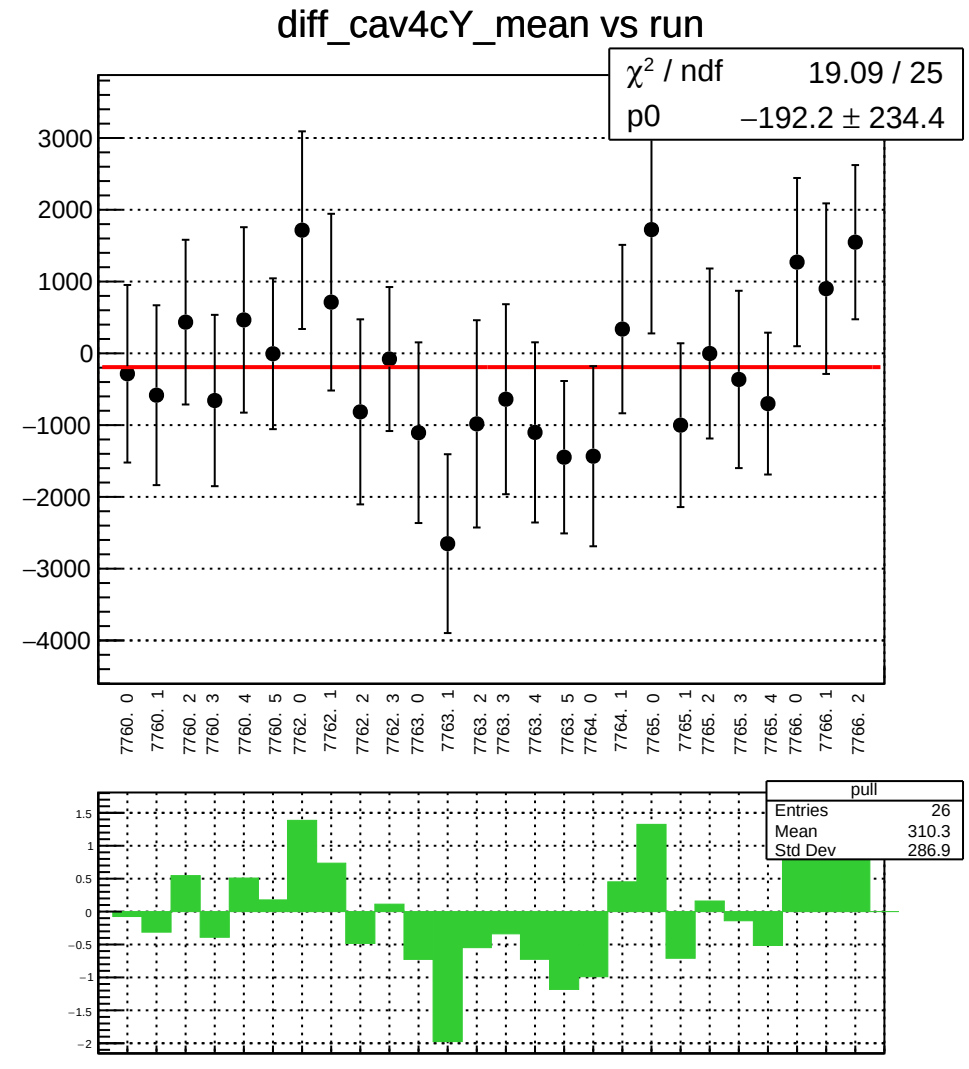

pull1D
Entries 26
Mean 0.00497
Std Dev 0.9323
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

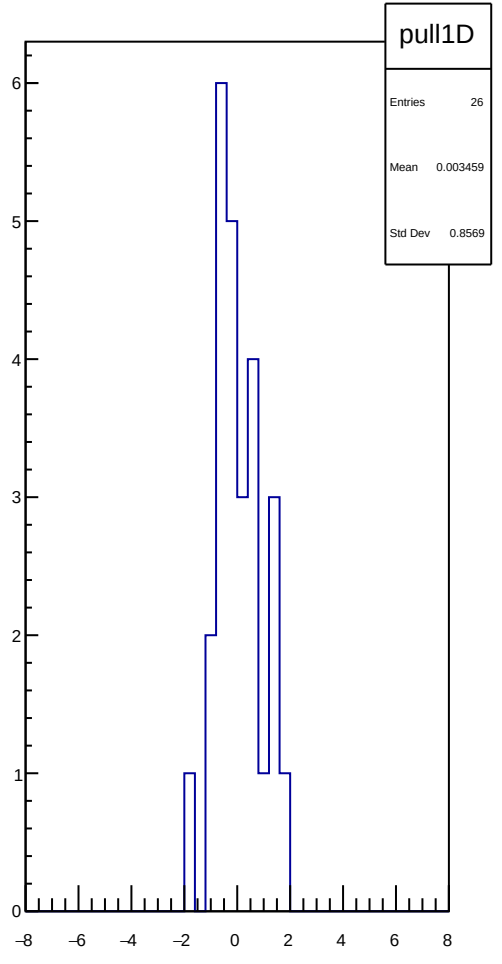

diff_cav4bY_rms vs run
×10^3
χ² / ndf 1663 / 25
p0 2.982e+05 ± 415.1
350
340
330
320
310
300
290
280
270
260
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

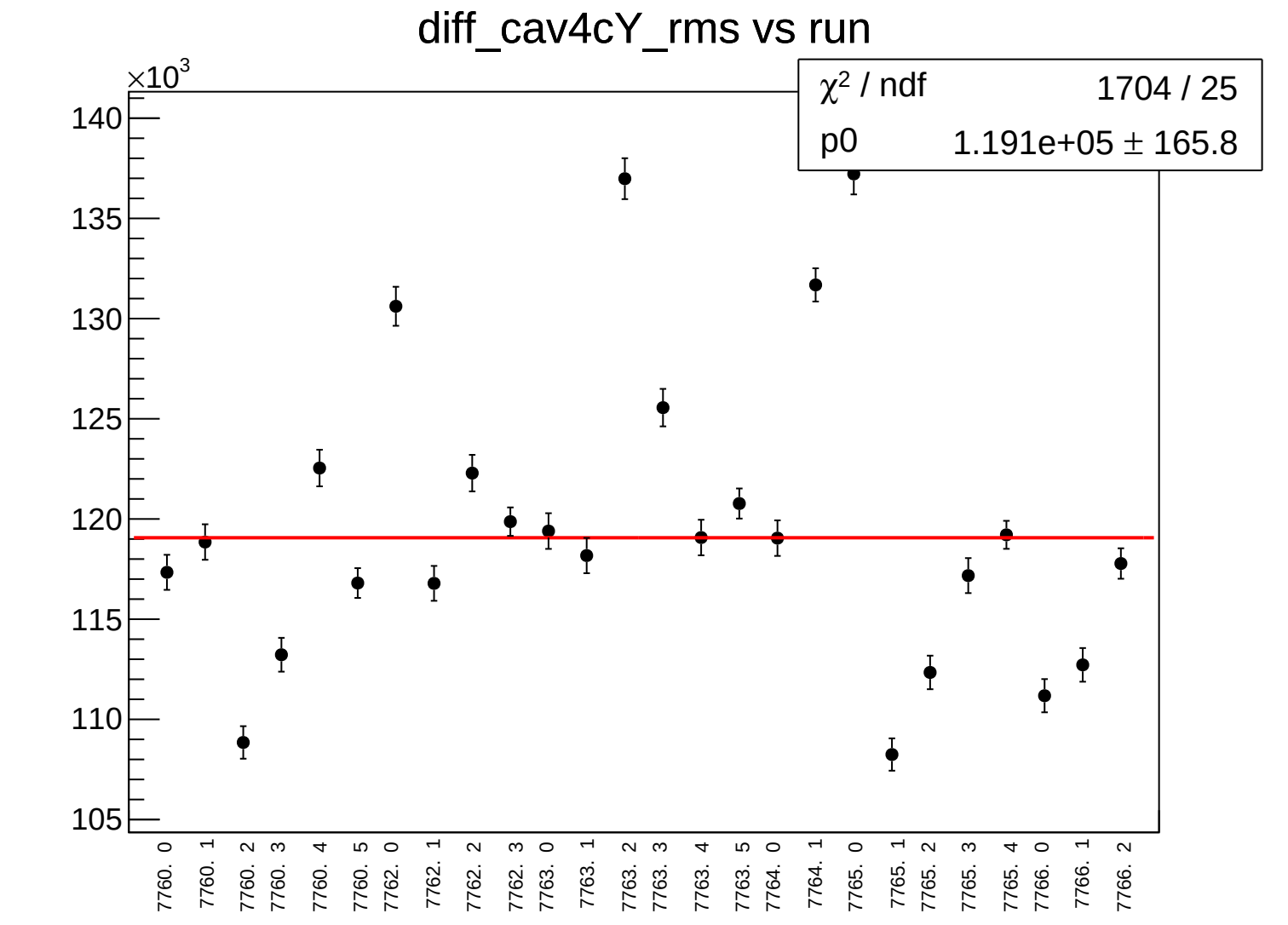

diff_cav4cX_mean vs run
χ² / ndf 34.41 / 25
p0 −2646 ± 1238
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −148.2
Std Dev 154.7
2
1.5
1
0.5
0
−0.5
−1
−1.5

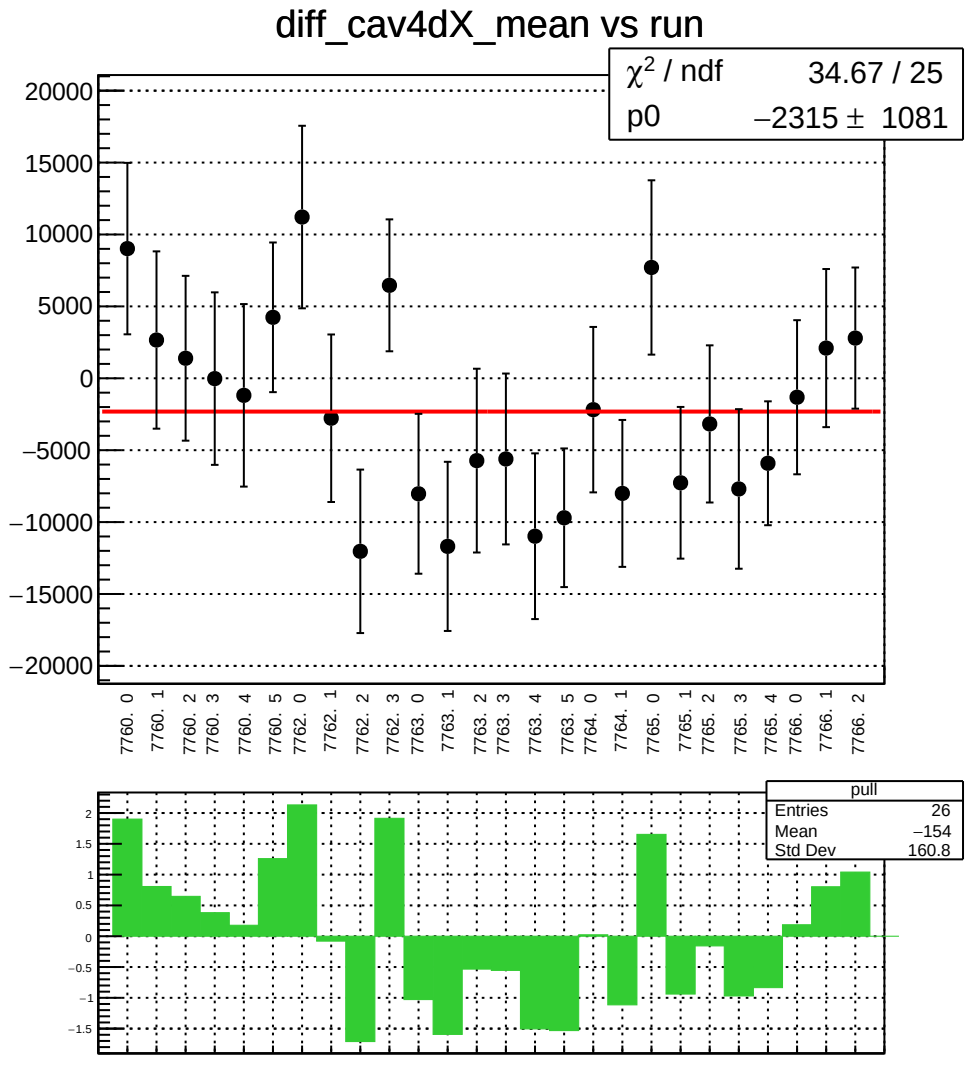

pull1D
Entries 26
Mean 0.01441
Std Dev 1.15
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

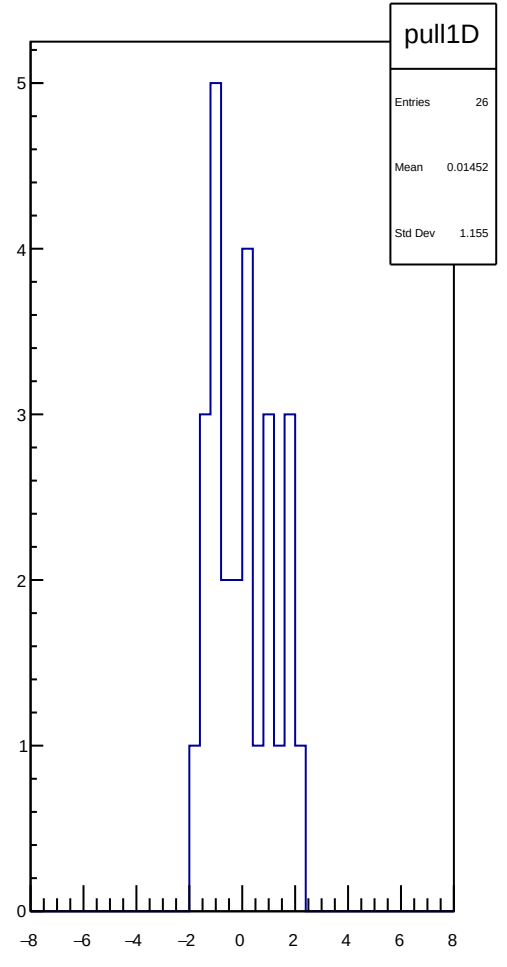

diff_cav4cX_rms vs run
×10^3
720
700
680
660
640
620
600
580
560
χ² / ndf 1485 / 25
p0 6.288e+05 ± 875.3
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

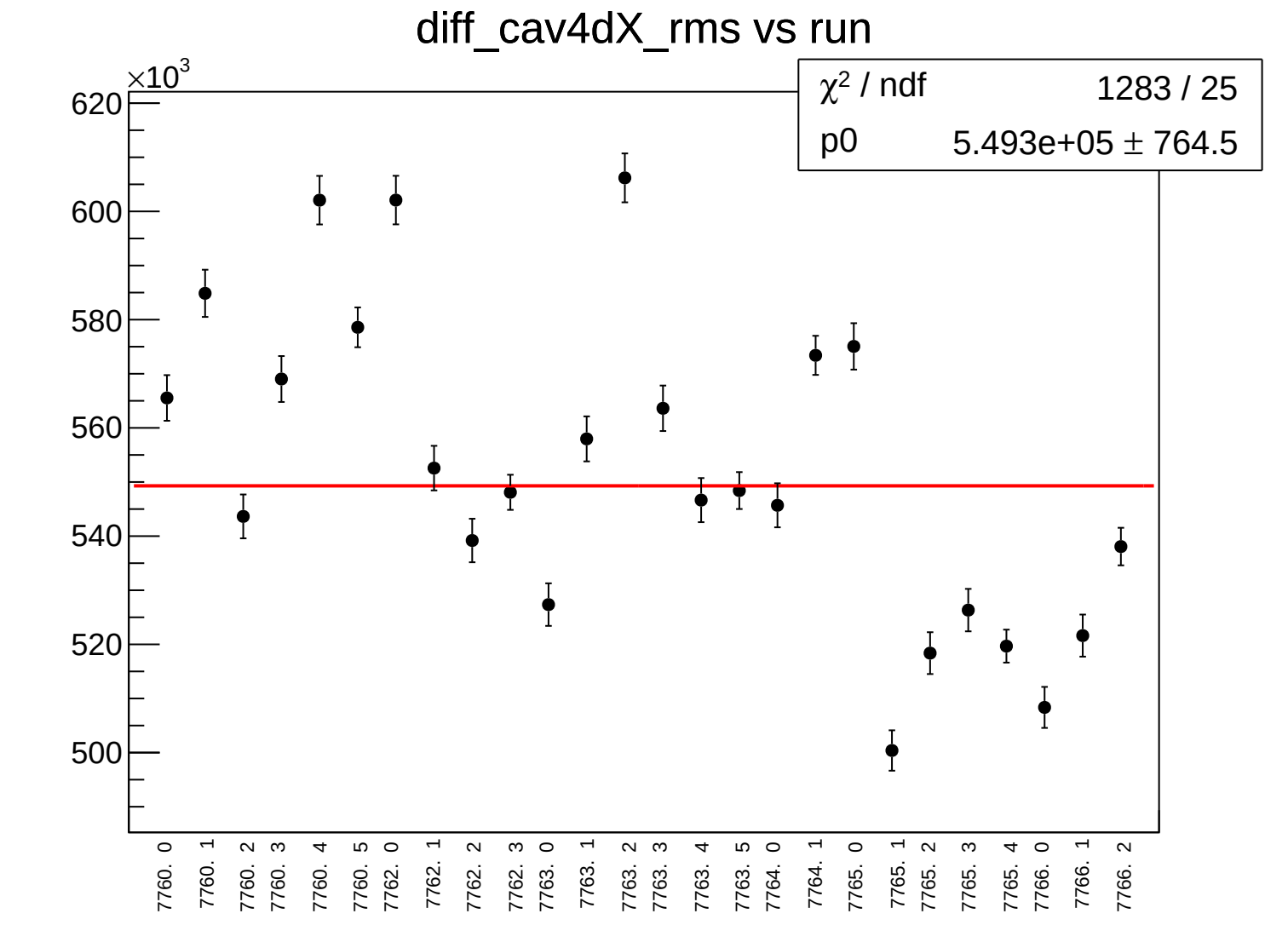

diff_cav4cY_mean vs run
χ² / ndf 19.09 / 25
p0 −192.2 ± 234.4
3000
2000
1000
0
−1000
−2000
−3000
−4000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 310.3
Std Dev 286.9
1.5
1
0.5
0
−0.5
−1
−1.5
−2

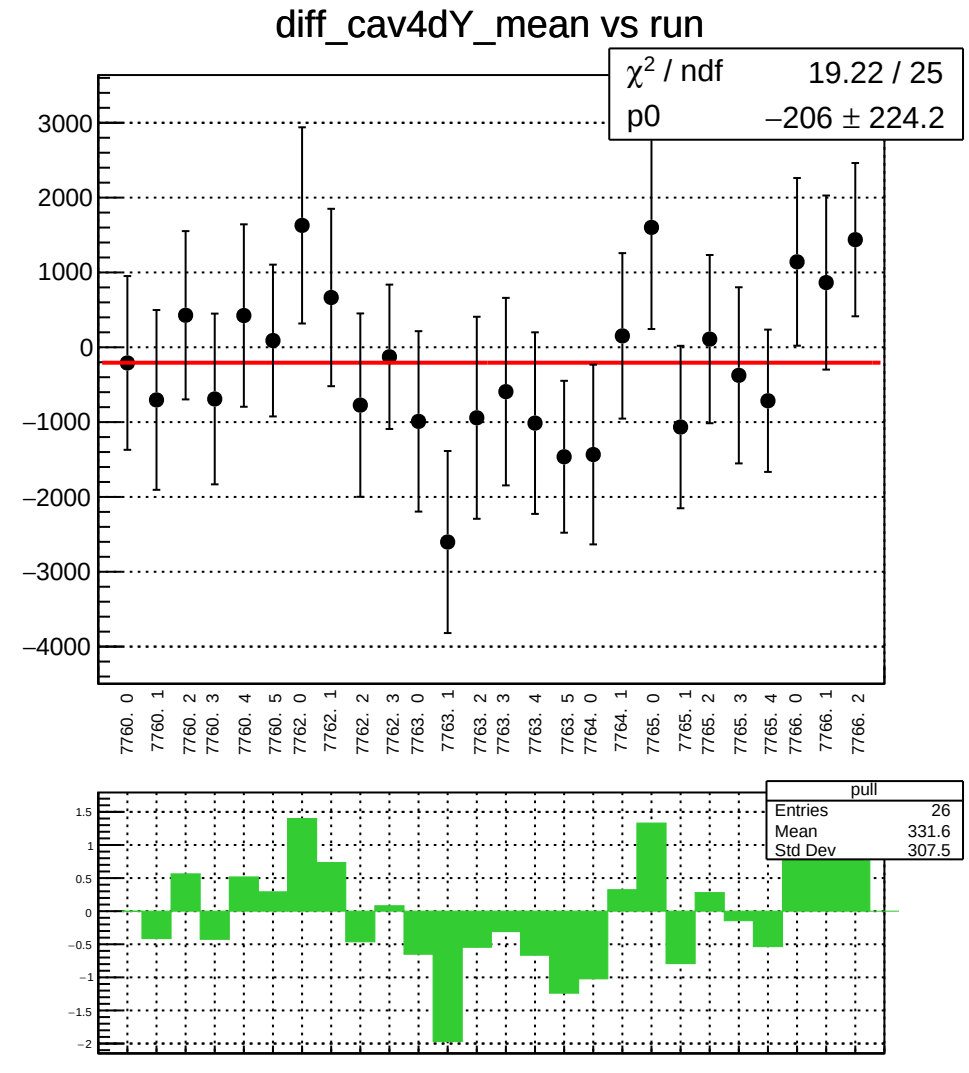

pull1D
Entries 26
Mean 0.003459
Std Dev 0.8569
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

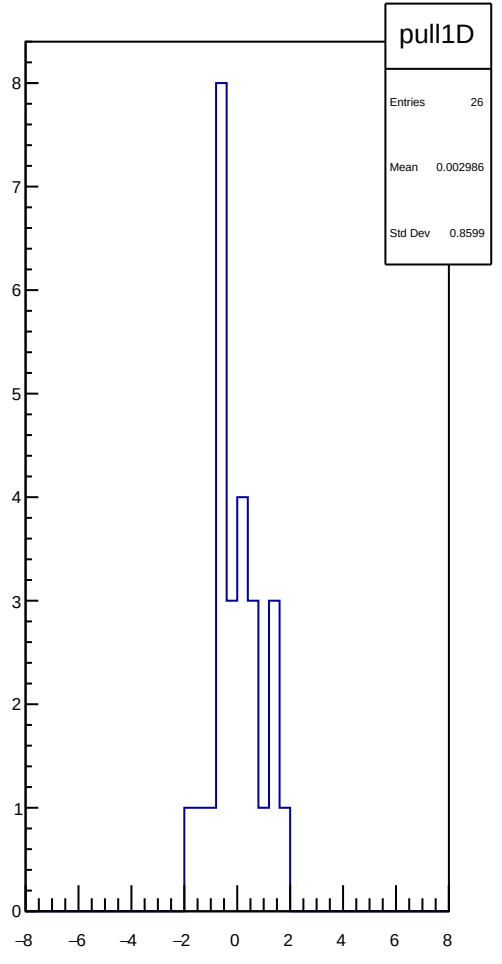

diff_cav4cY_rms vs run
×10^3
χ² / ndf 1704 / 25
p0 1.191e+05 ± 165.8
140
135
130
125
120
115
110
105
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

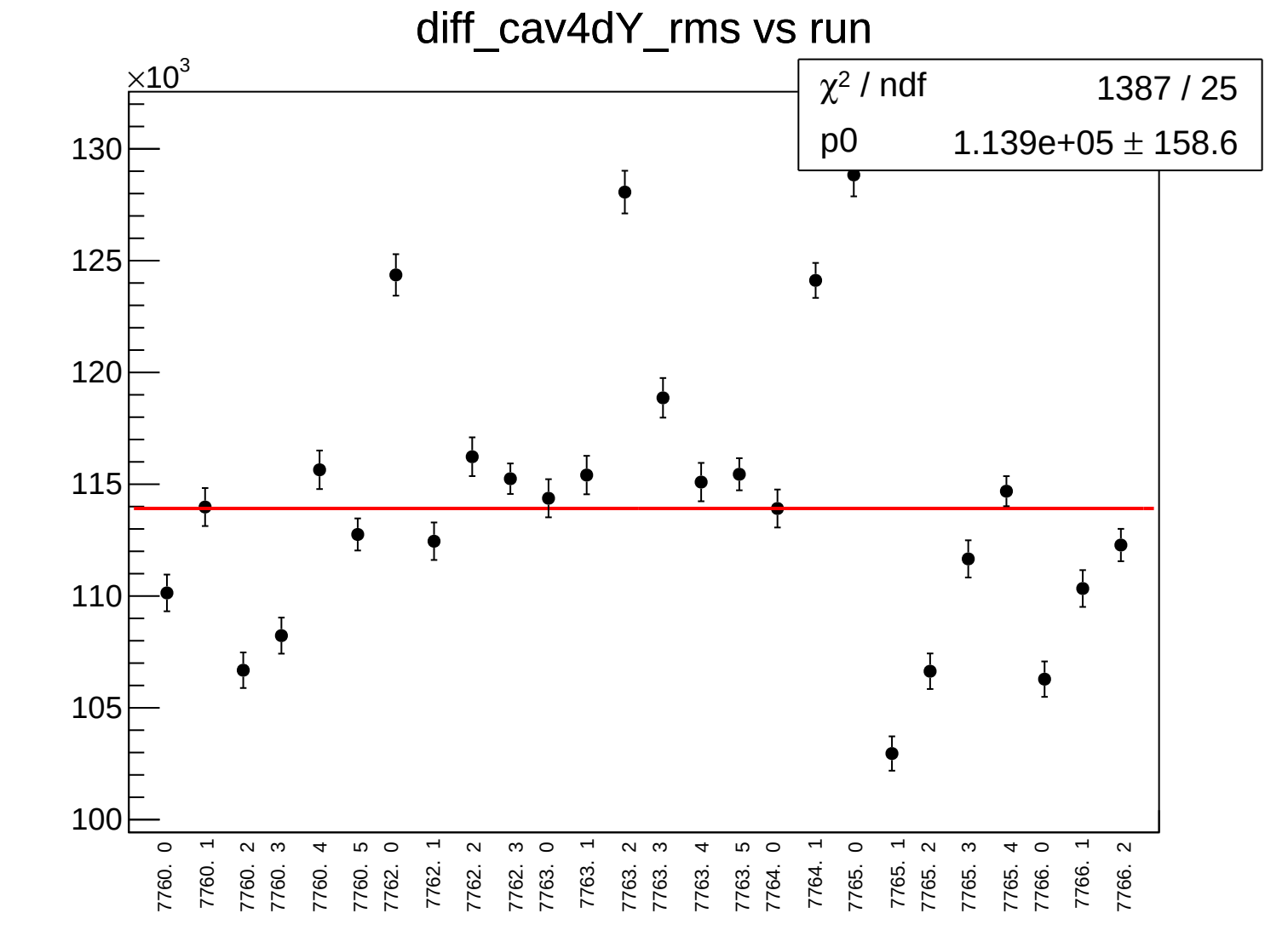

diff_cav4dX_mean vs run
χ² / ndf 34.67 / 25
p0 −2315 ± 1081
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −154
Std Dev 160.8
2
1.5
1
0.5
0
−0.5
−1
−1.5

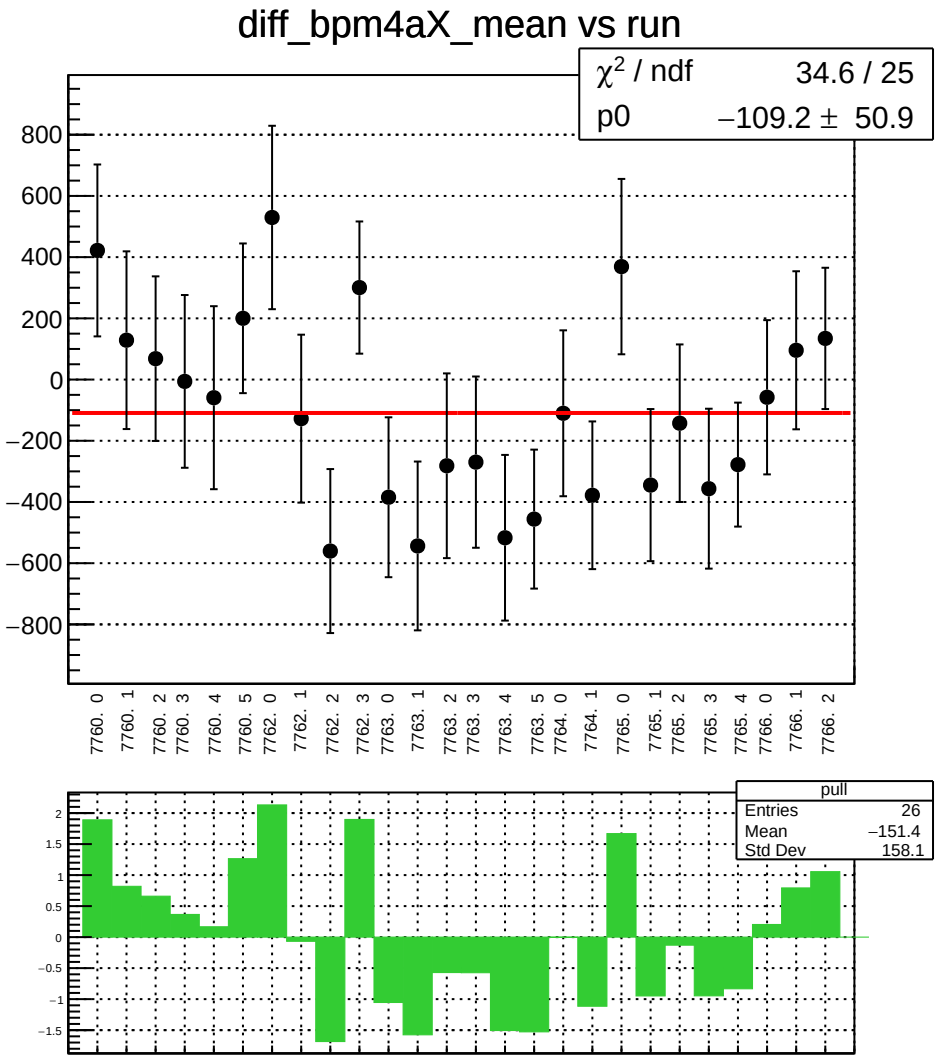

pull1D
Entries 26
Mean 0.01452
Std Dev 1.155
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

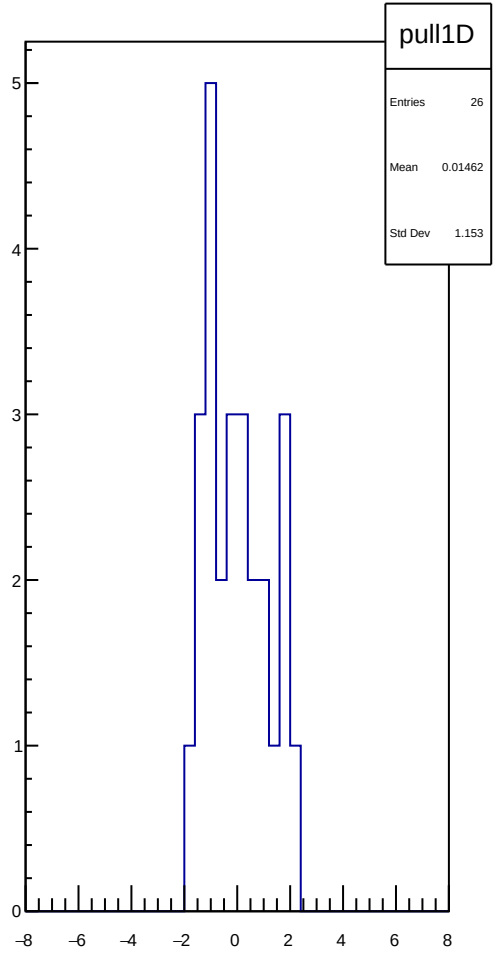

diff_cav4dX_rms vs run
×10^3
620
600
580
560
540
520
500
χ² / ndf 1283 / 25
p0 5.493e+05 ± 764.5
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

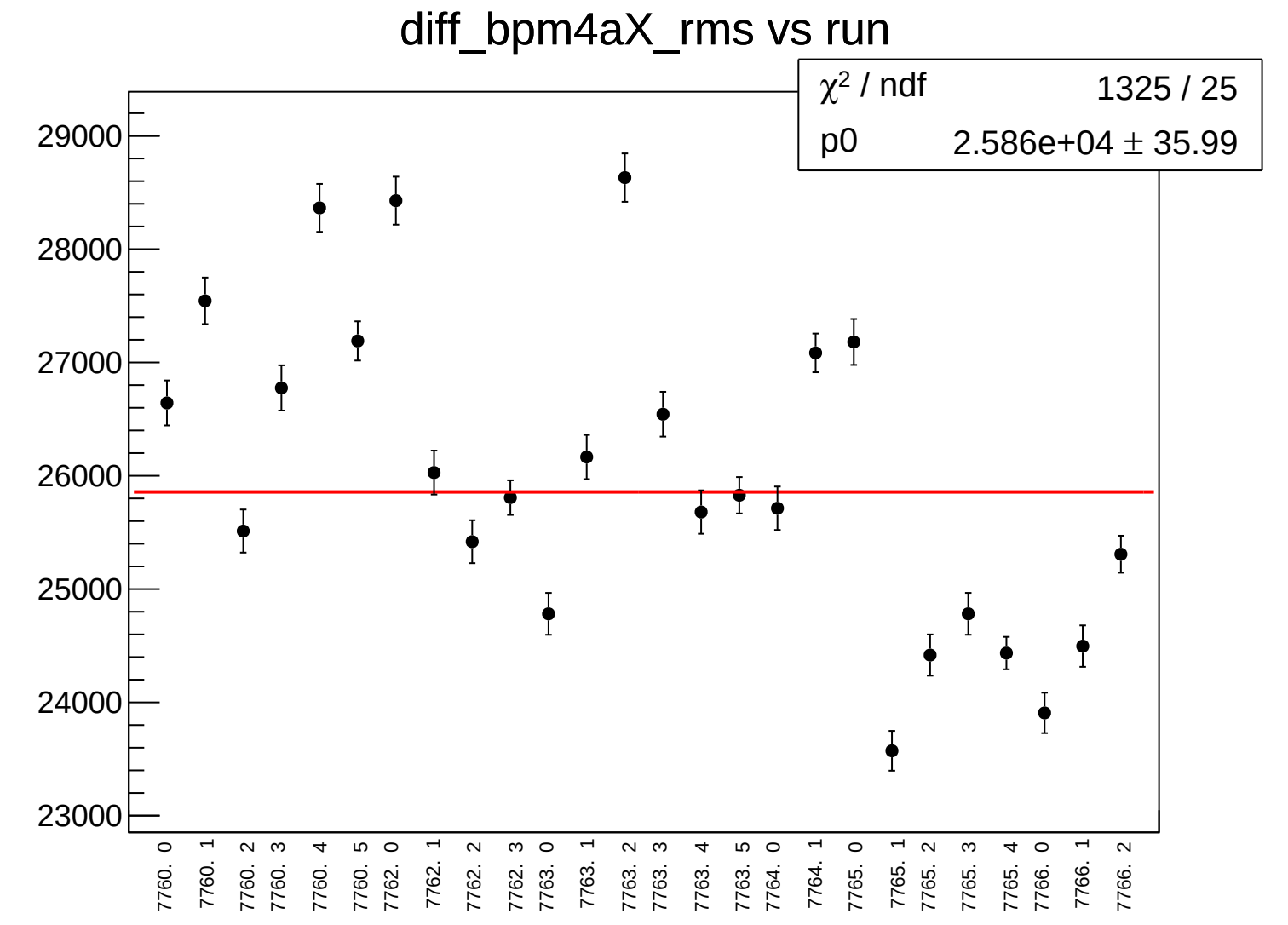

diff_cav4dY_mean vs run
χ² / ndf 19.22 / 25
p0 −206 ± 224.2
3000
2000
1000
0
−1000
−2000
−3000
−4000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 331.6
Std Dev 307.5
1.5
1
0.5
0
−0.5
−1
−1.5
−2

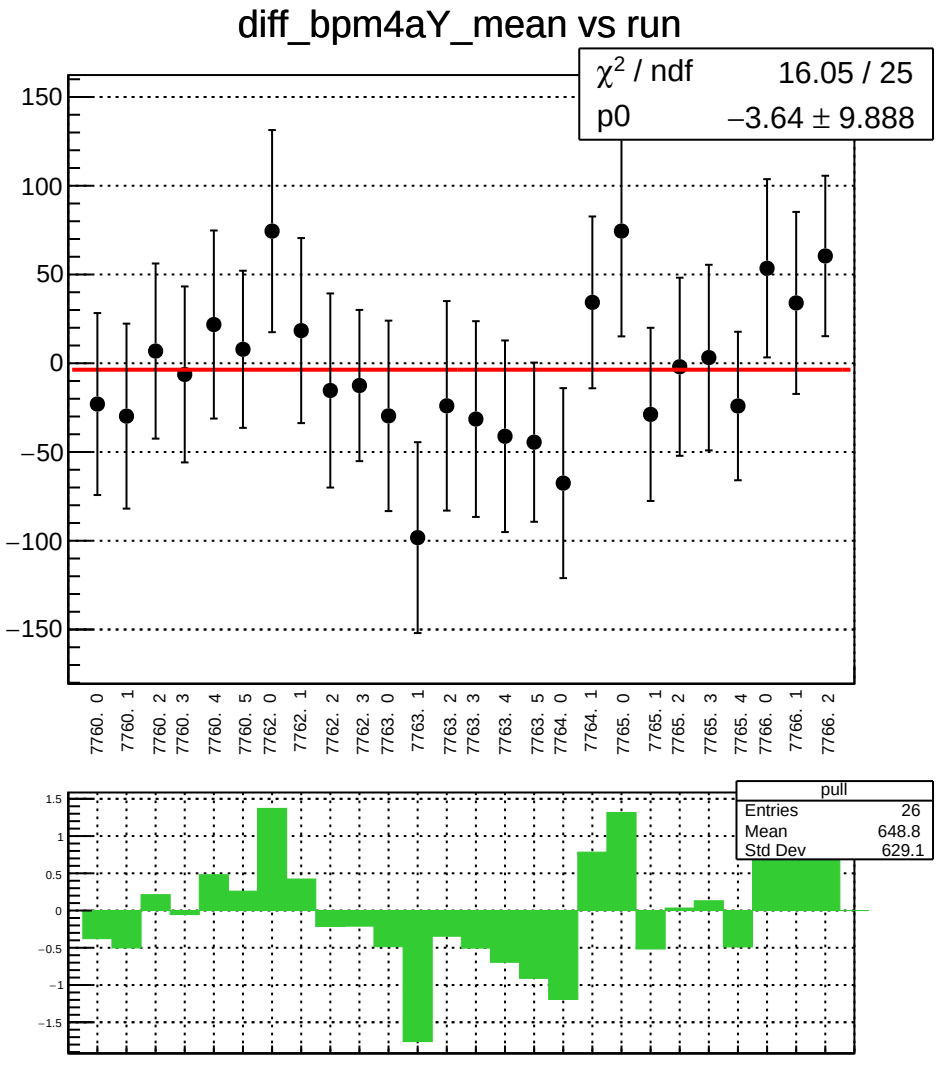

pull1D
Entries 26
Mean 0.002986
Std Dev 0.8599
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

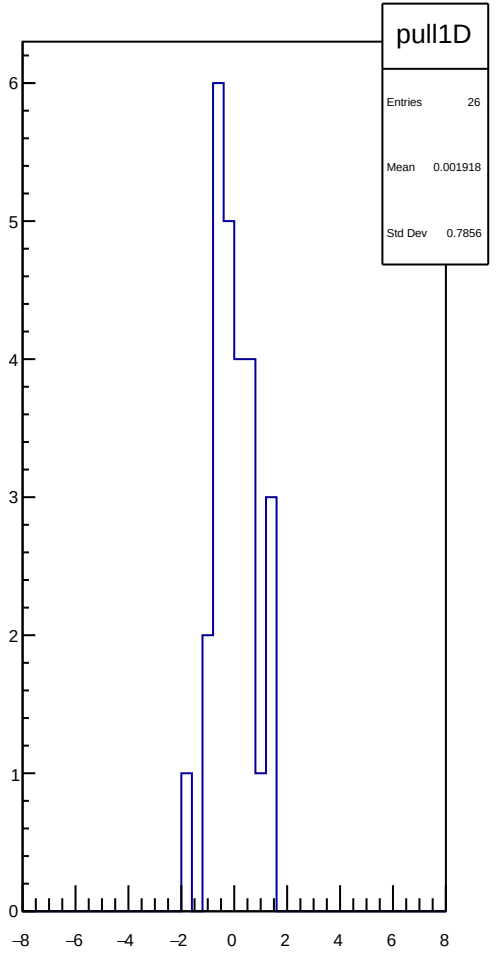

diff_cav4dY_rms vs run
×10^3
χ² / ndf 1387 / 25
p0 1.139e+05 ± 158.6
130
125
120
115
110
105
100
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

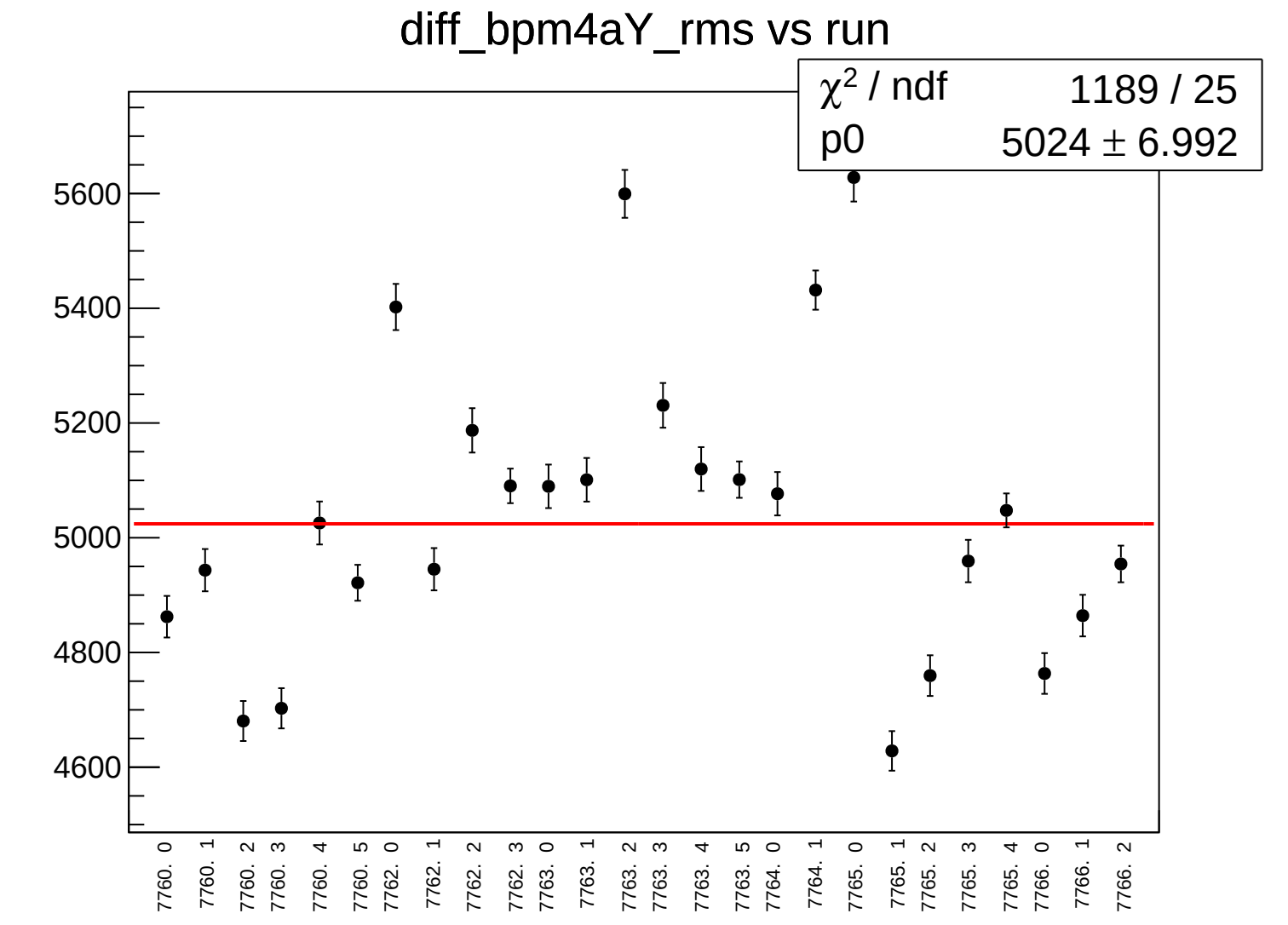

diff_bpm4aX_mean vs run
χ² / ndf 34.6 / 25
p0 −109.2 ± 50.9
800
600
400
200
0
−200
−400
−600
−800
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −151.4
Std Dev 158.1
2
1.5
1
0.5
0
−0.5
−1
−1.5

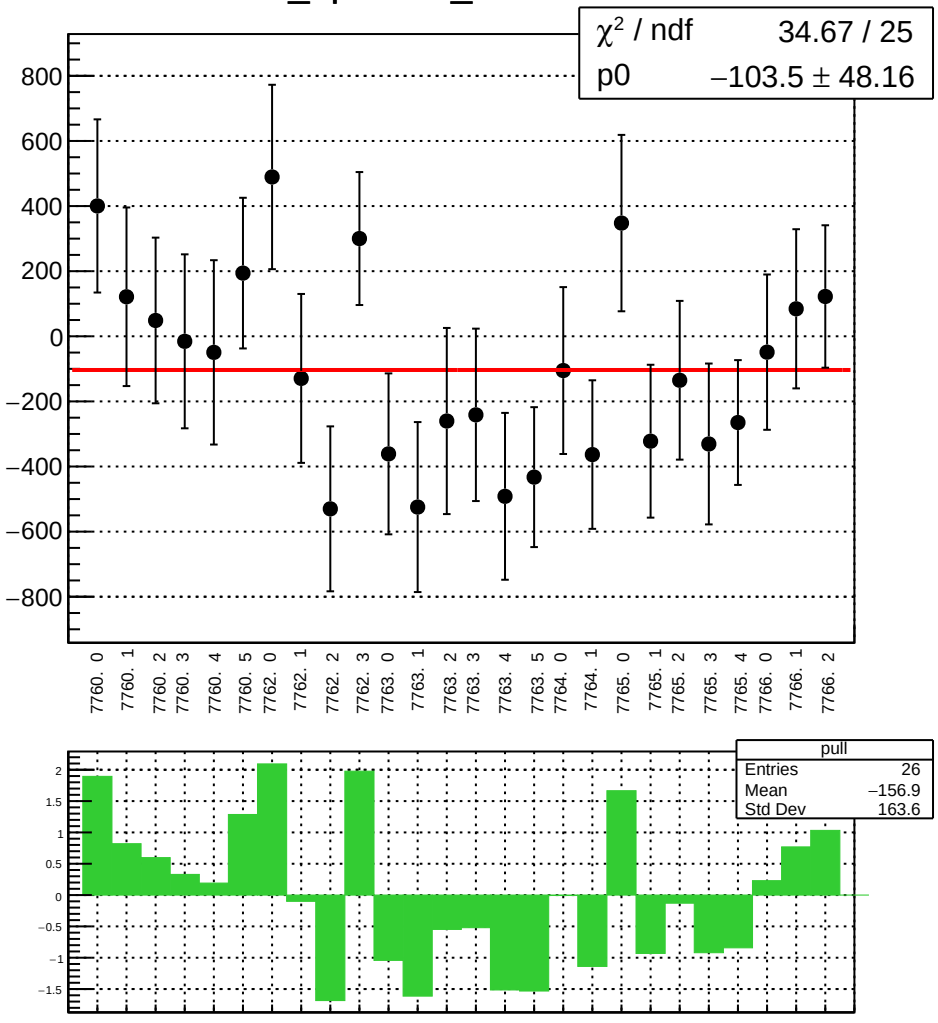

pull1D
Entries 26
Mean 0.01462
Std Dev 1.153
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

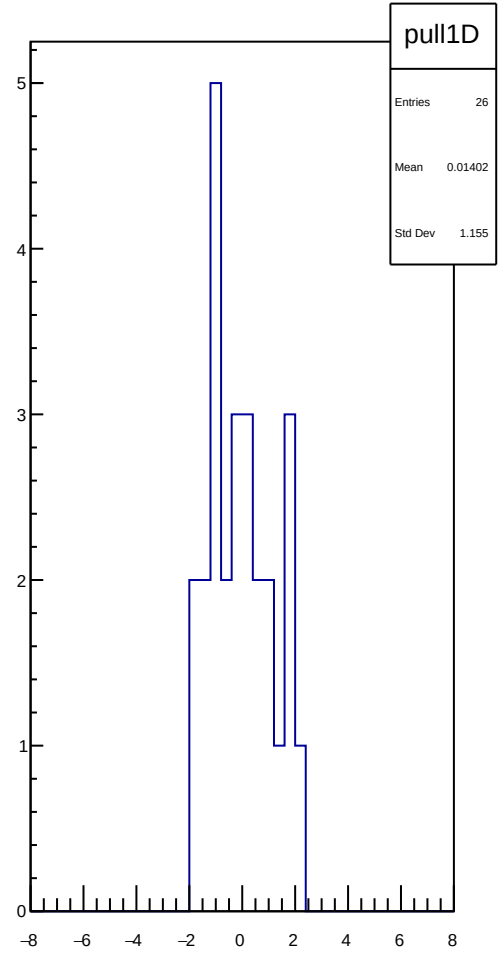

diff_bpm4aX_rms vs run
χ² / ndf 1325 / 25
p0 2.586e+04 ± 35.99
29000
28000
27000
26000
25000
24000
23000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

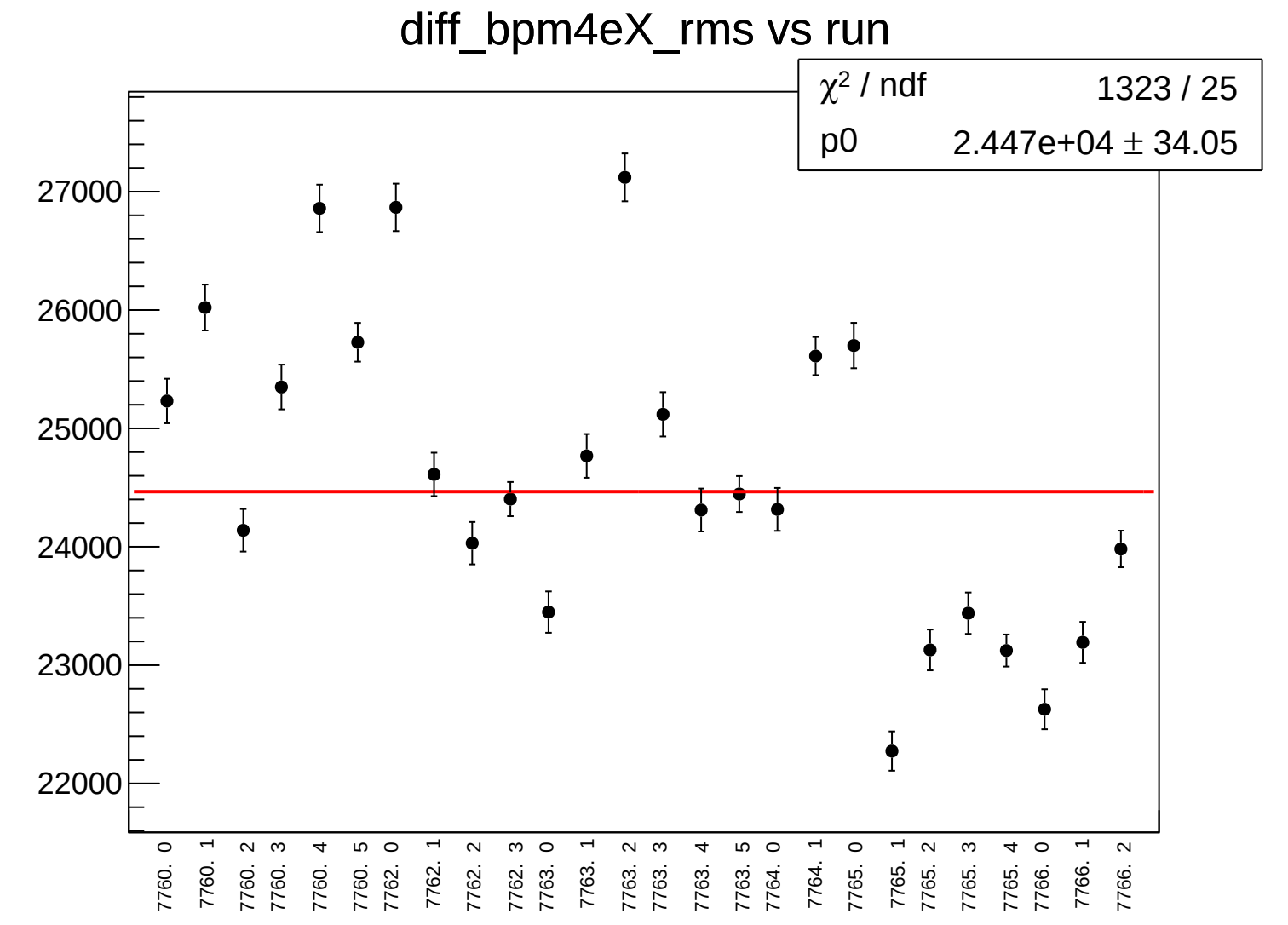

diff_bpm4aY_mean vs run
χ² / ndf 16.05 / 25
p0 −3.64 ± 9.888
150
100
50
0
−50
−100
−150
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 648.8
Std Dev 629.1
1.5
1
0.5
0
−0.5
−1
−1.5

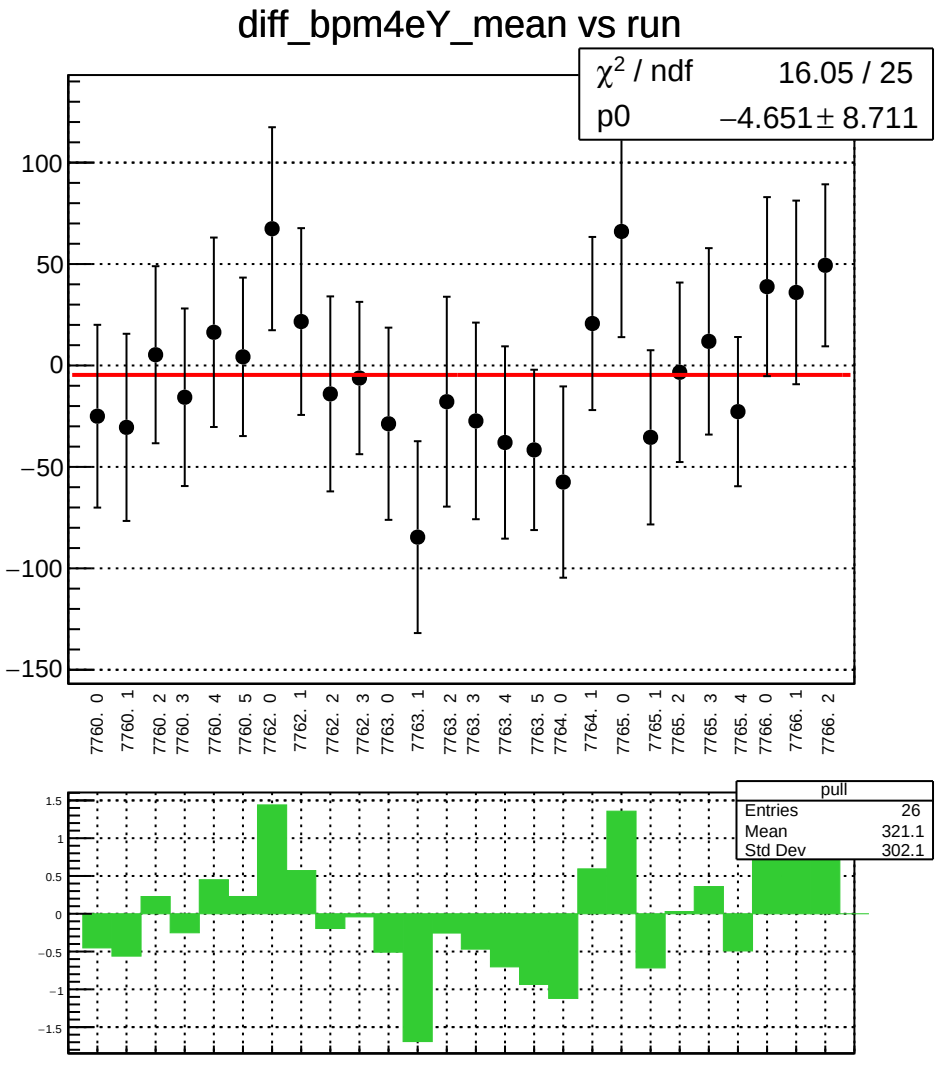

pull1D
Entries 26
Mean 0.001918
Std Dev 0.7856
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

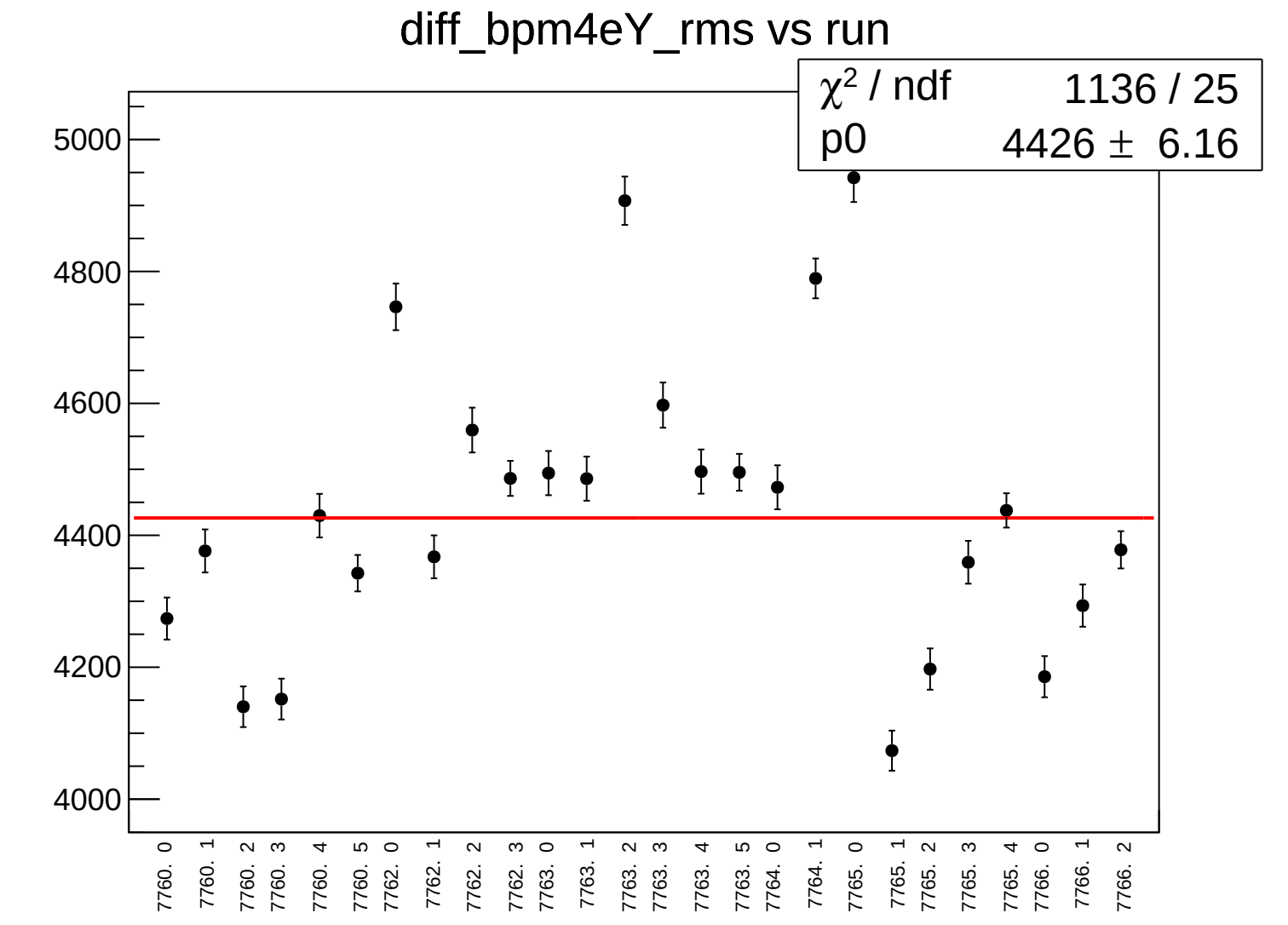

diff_bpm4aY_rms vs run
χ² / ndf 1189 / 25
p0 5024 ± 6.992
5600
5400
5200
5000
4800
4600
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

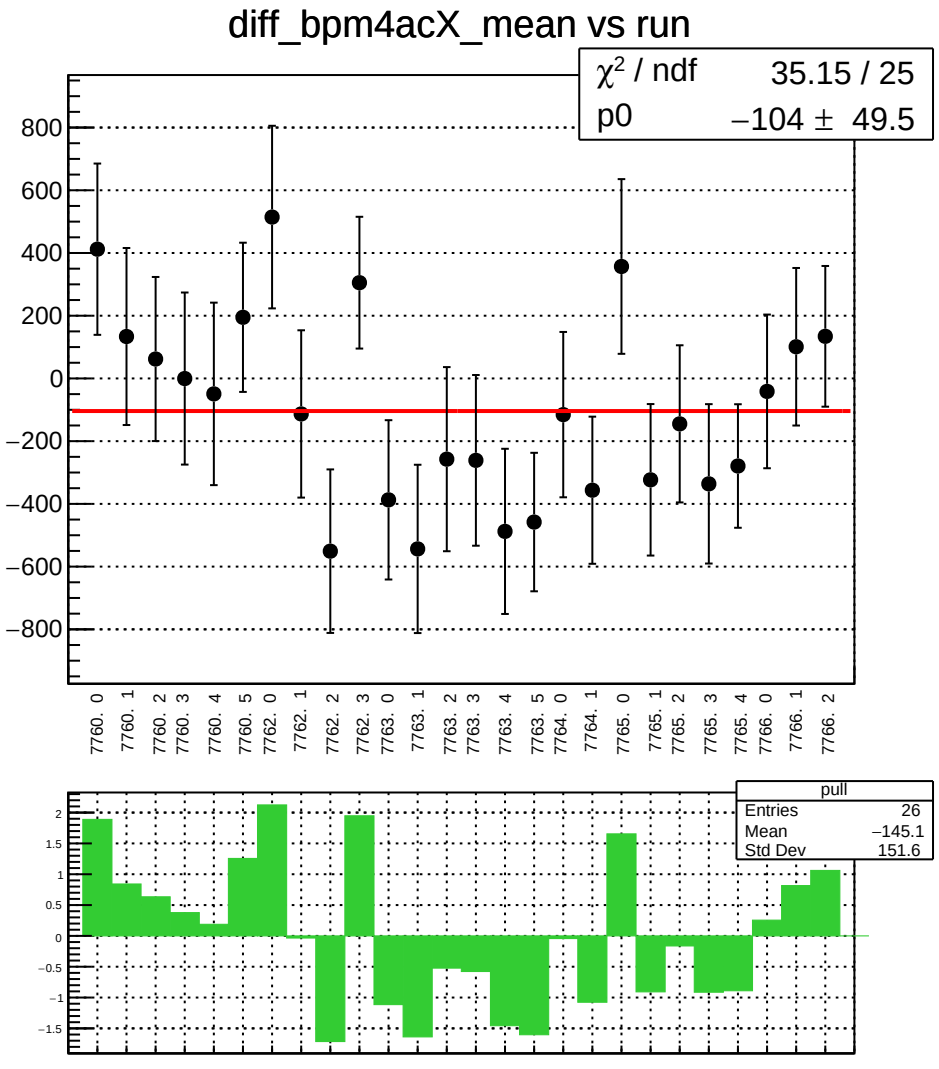

diff_bpm4eX_mean vs run
χ² / ndf 34.67 / 25
p0 −103.5 ± 48.16
800
600
400
200
0
−200
−400
−600
−800
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −156.9
Std Dev 163.6
2
1.5
1
0.5
0
−0.5
−1
−1.5

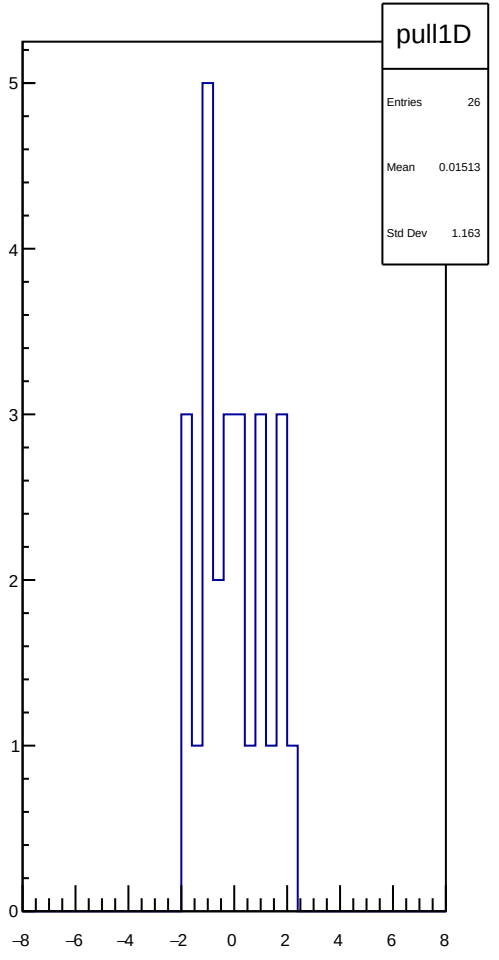

pull1D
Entries 26
Mean 0.01402
Std Dev 1.155
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

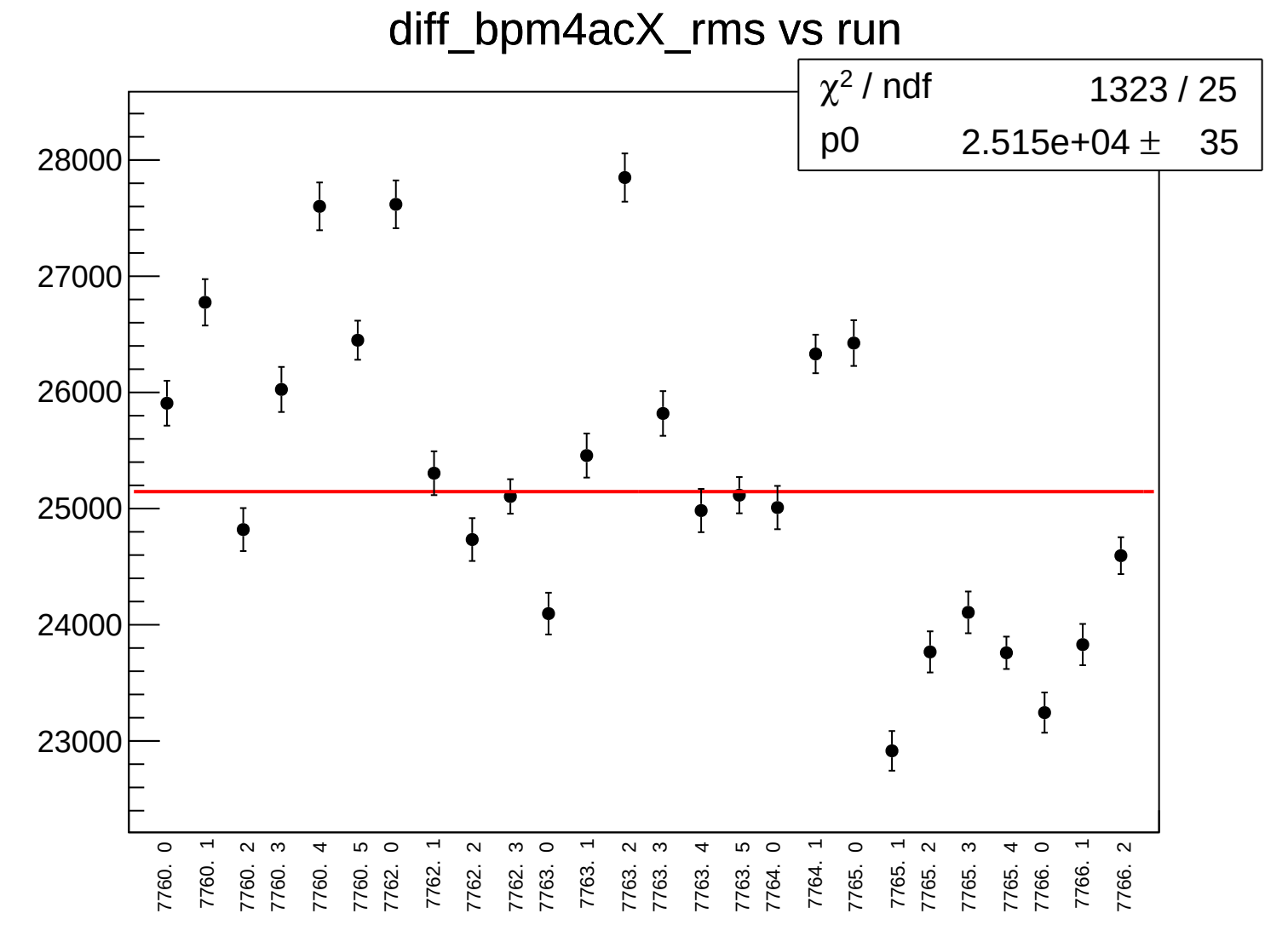

diff_bpm4eX_rms vs run
χ² / ndf 1323 / 25
p0 2.447e+04 ± 34.05
27000
26000
25000
24000
23000
22000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

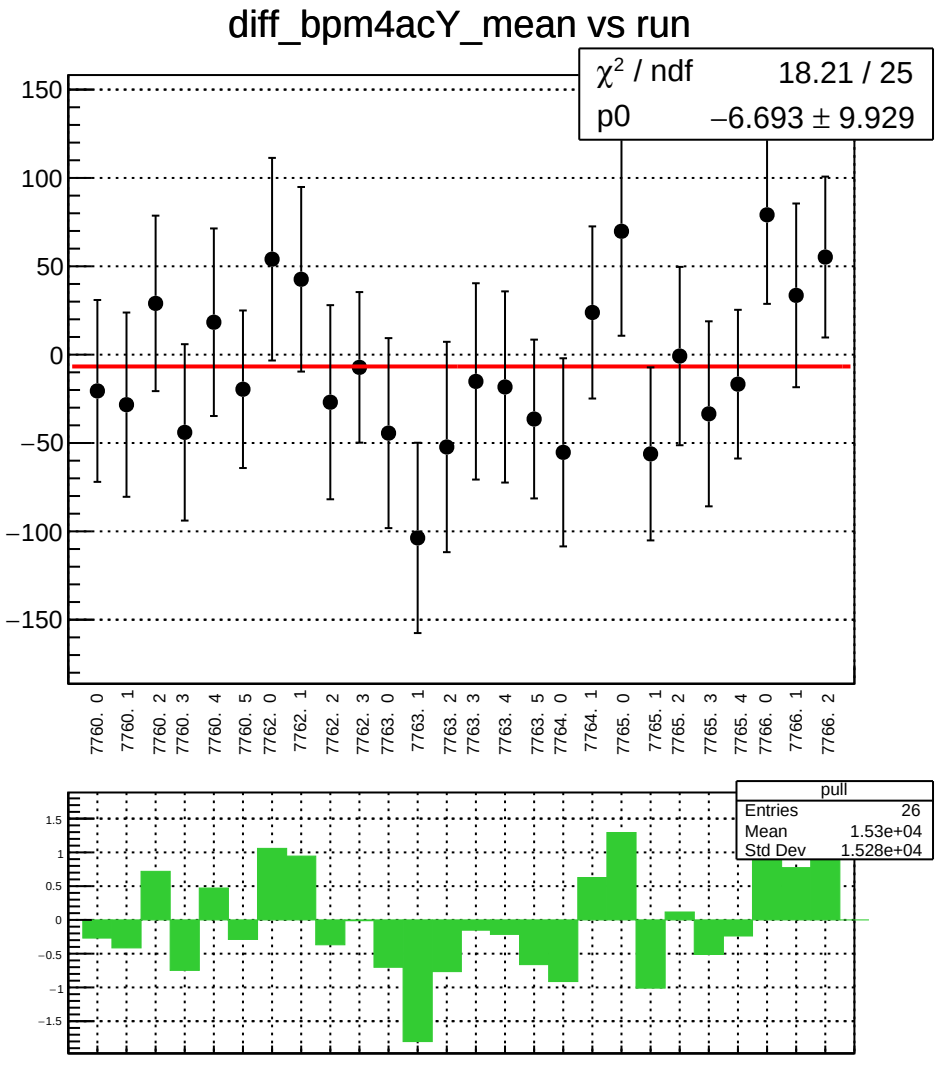

diff_bpm4eY_mean vs run
χ^2 / ndf 16.05 / 25
p0 −4.651 ± 8.711
100
50
0
−50
−100
−150
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 321.1
Std Dev 302.1
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 26
Mean 0.004137
Std Dev 0.7856
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

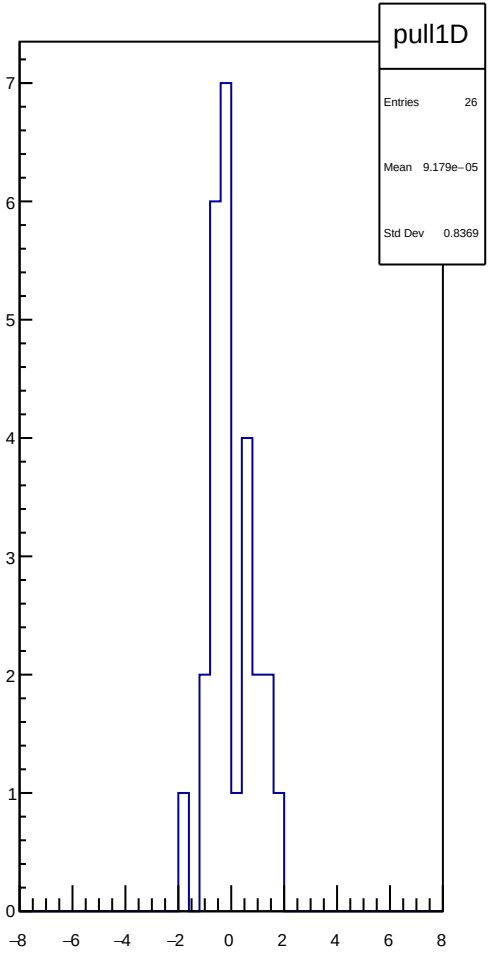

diff_bpm4eY_rms vs run
χ² / ndf 1136 / 25
p0 4426 ± 6.16
5000
4800
4600
4400
4200
4000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

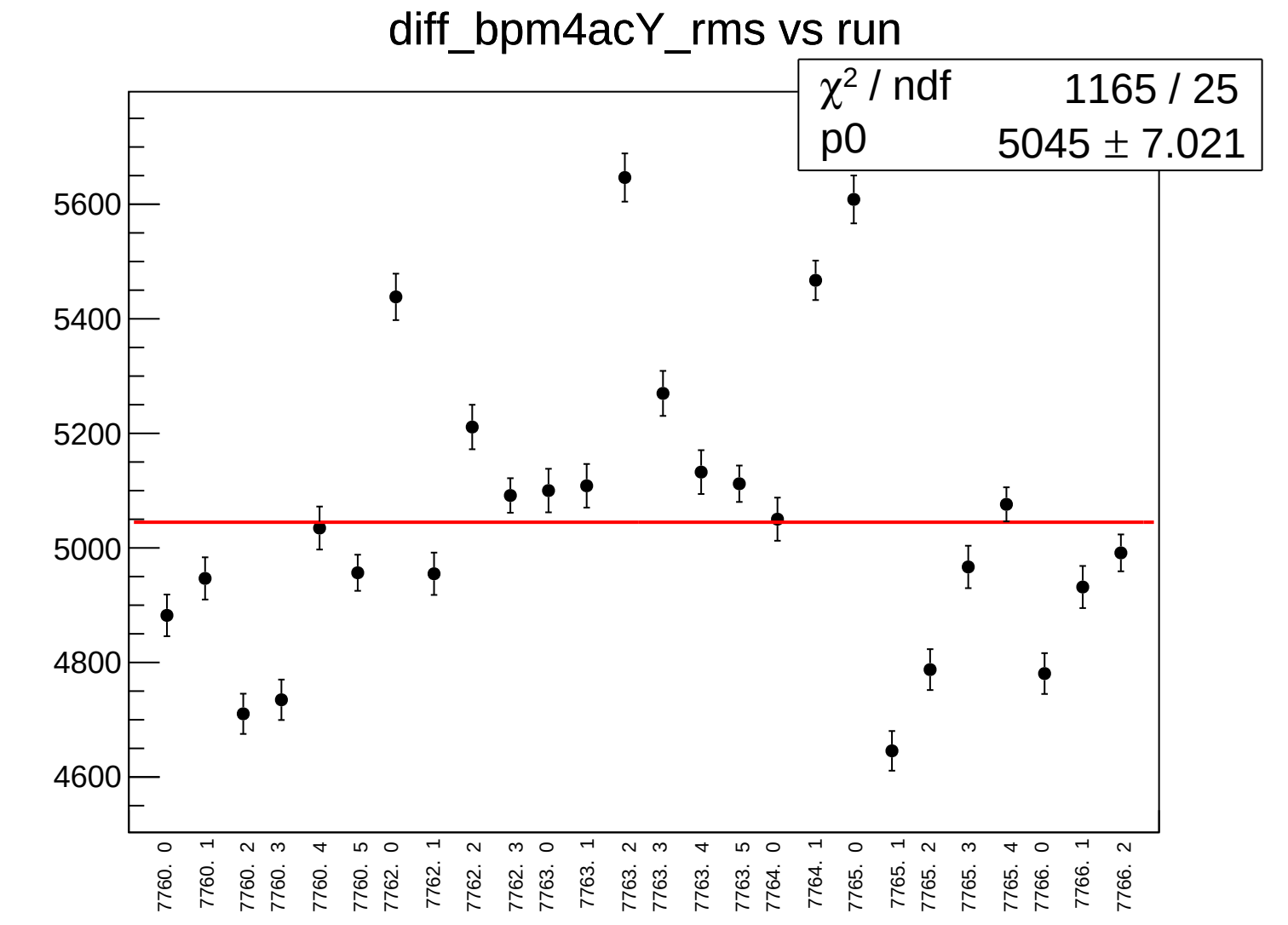

diff_bpm4acX_mean vs run
χ² / ndf 35.15 / 25
p0 −104 ± 49.5
800
600
400
200
0
−200
−400
−600
−800
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −145.1
Std Dev 151.6
2
1.5
1
0.5
0
−0.5
−1
−1.5

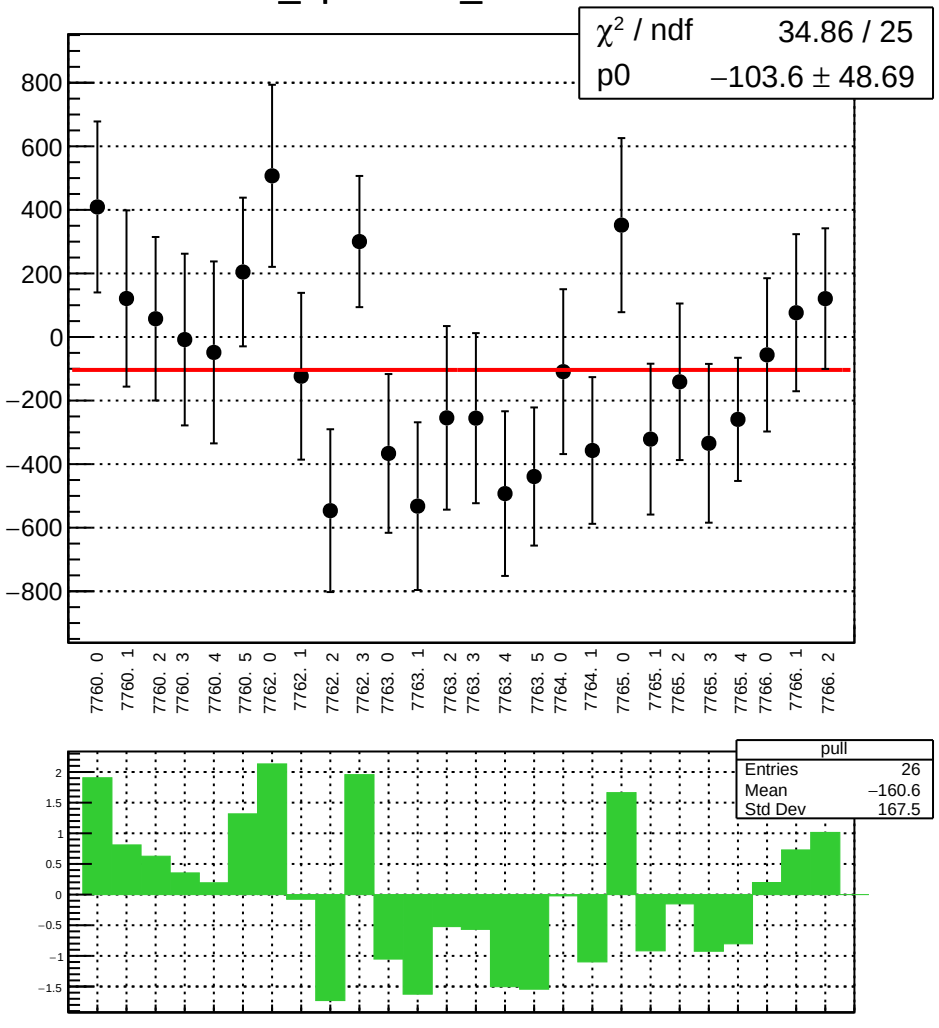

pull1D
Entries 26
Mean 0.01513
Std Dev 1.163
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

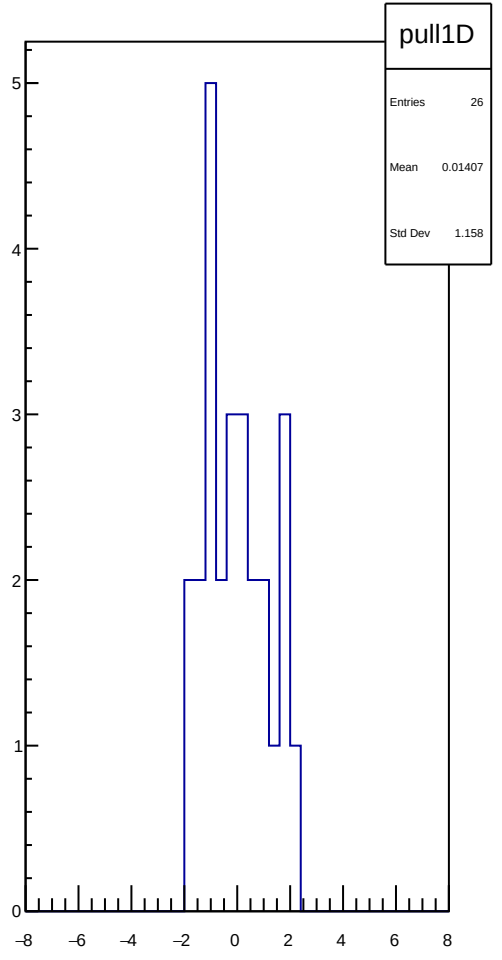

diff_bpm4acX_rms vs run
χ² / ndf 1323 / 25
p0 2.515e+04 ± 35
28000
27000
26000
25000
24000
23000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

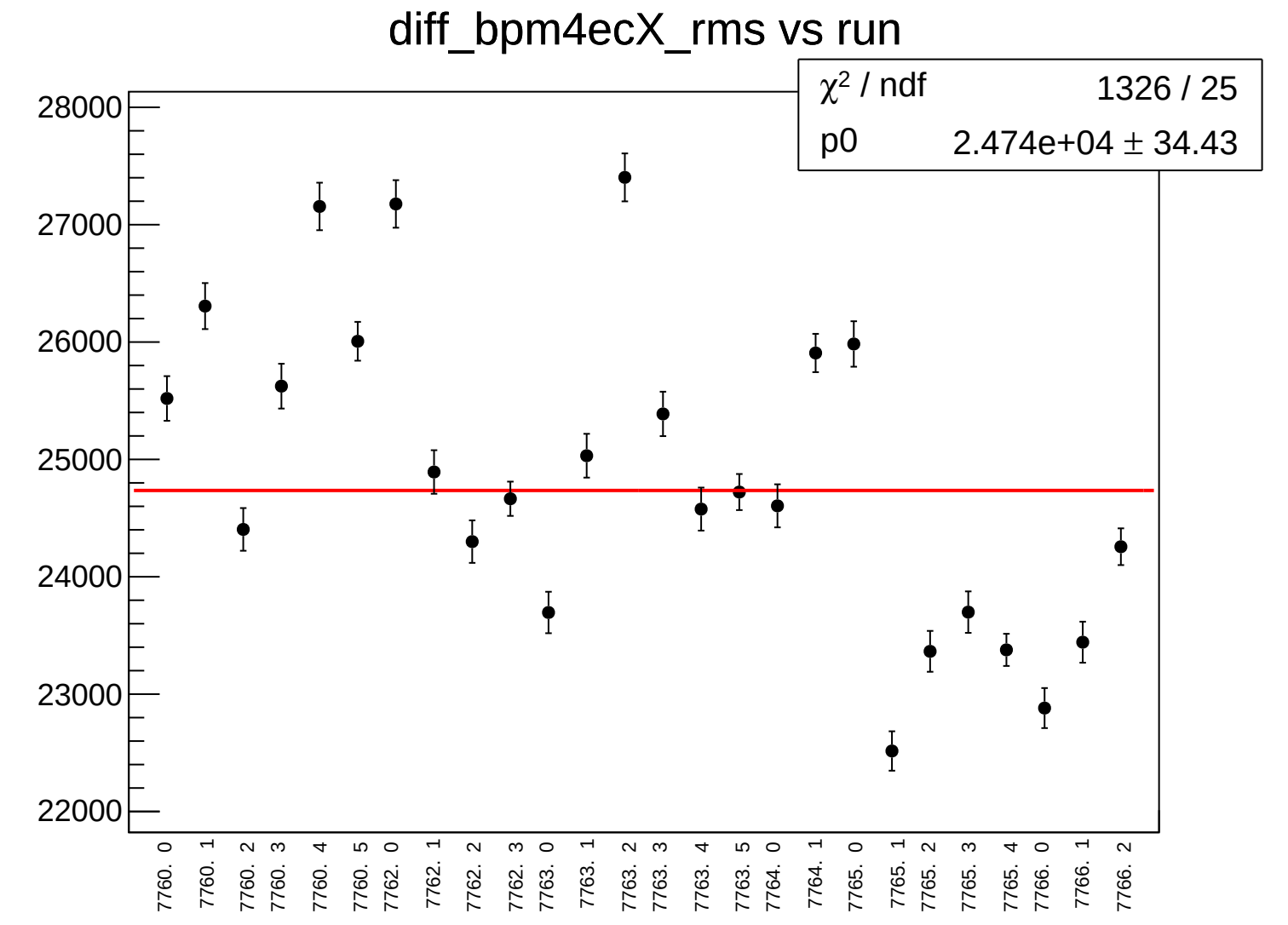

diff_bpm4acY_mean vs run
χ² / ndf 18.21 / 25
p0 −6.693 ± 9.929
150
100
50
0
−50
−100
−150
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 1.53e+04
Std Dev 1.528e+04
1.5
1
0.5
0
−0.5
−1
−1.5

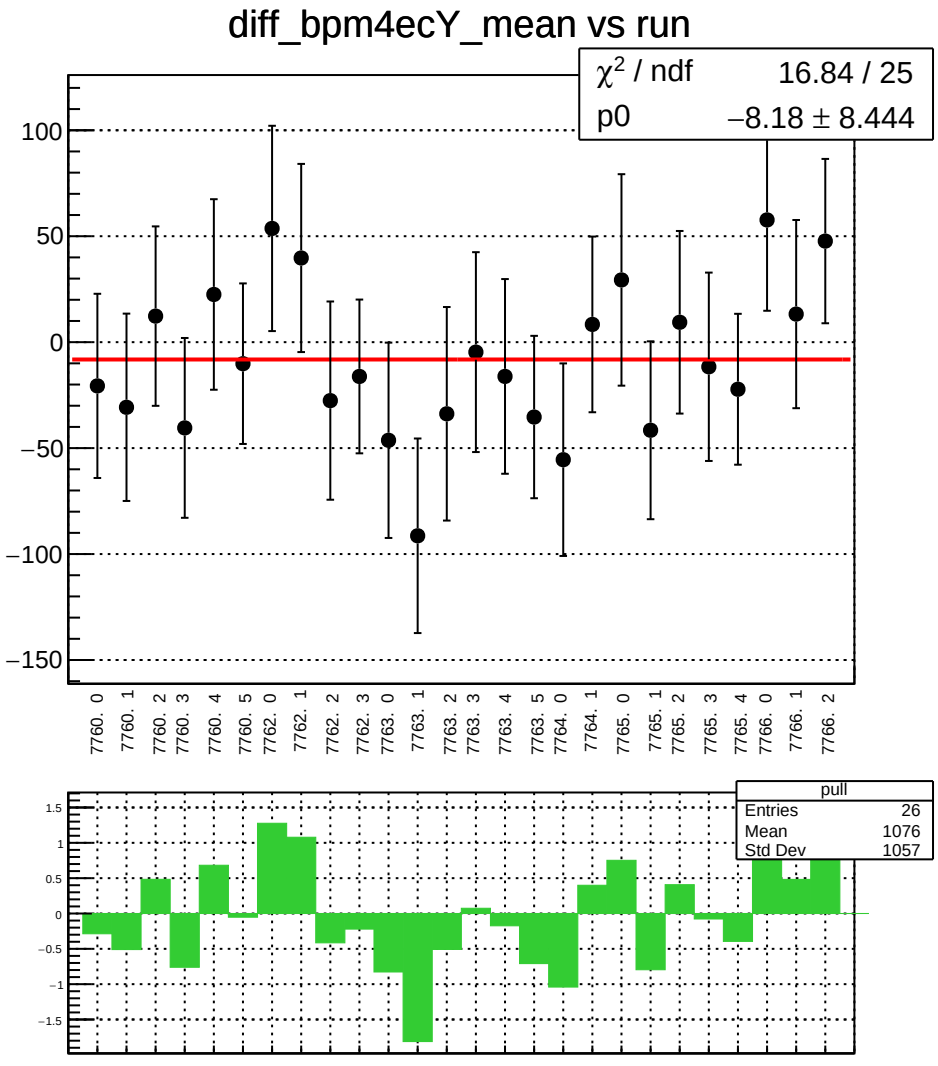

pull1D
Entries 26
Mean 9.179e−05
Std Dev 0.8369
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

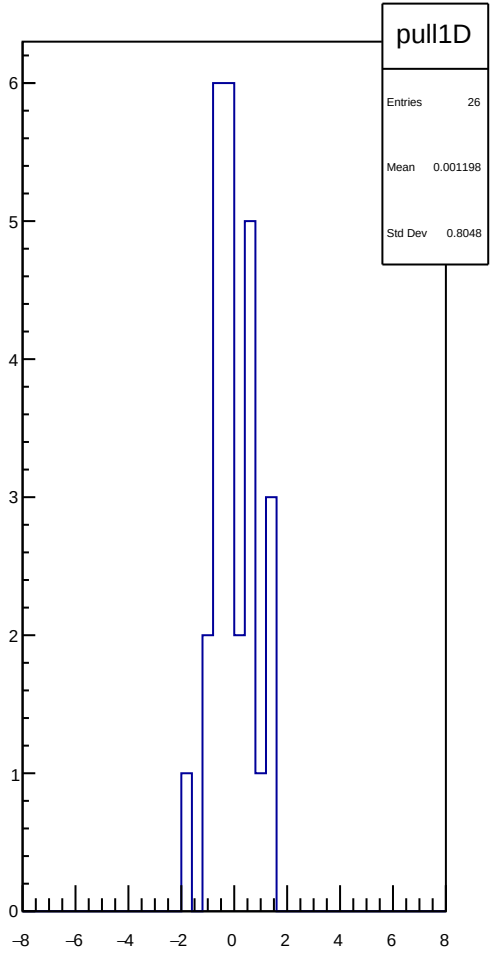

diff_bpm4acY_rms vs run
χ² / ndf 1165 / 25
p0 5045 ± 7.021
5600
5400
5200
5000
4800
4600
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

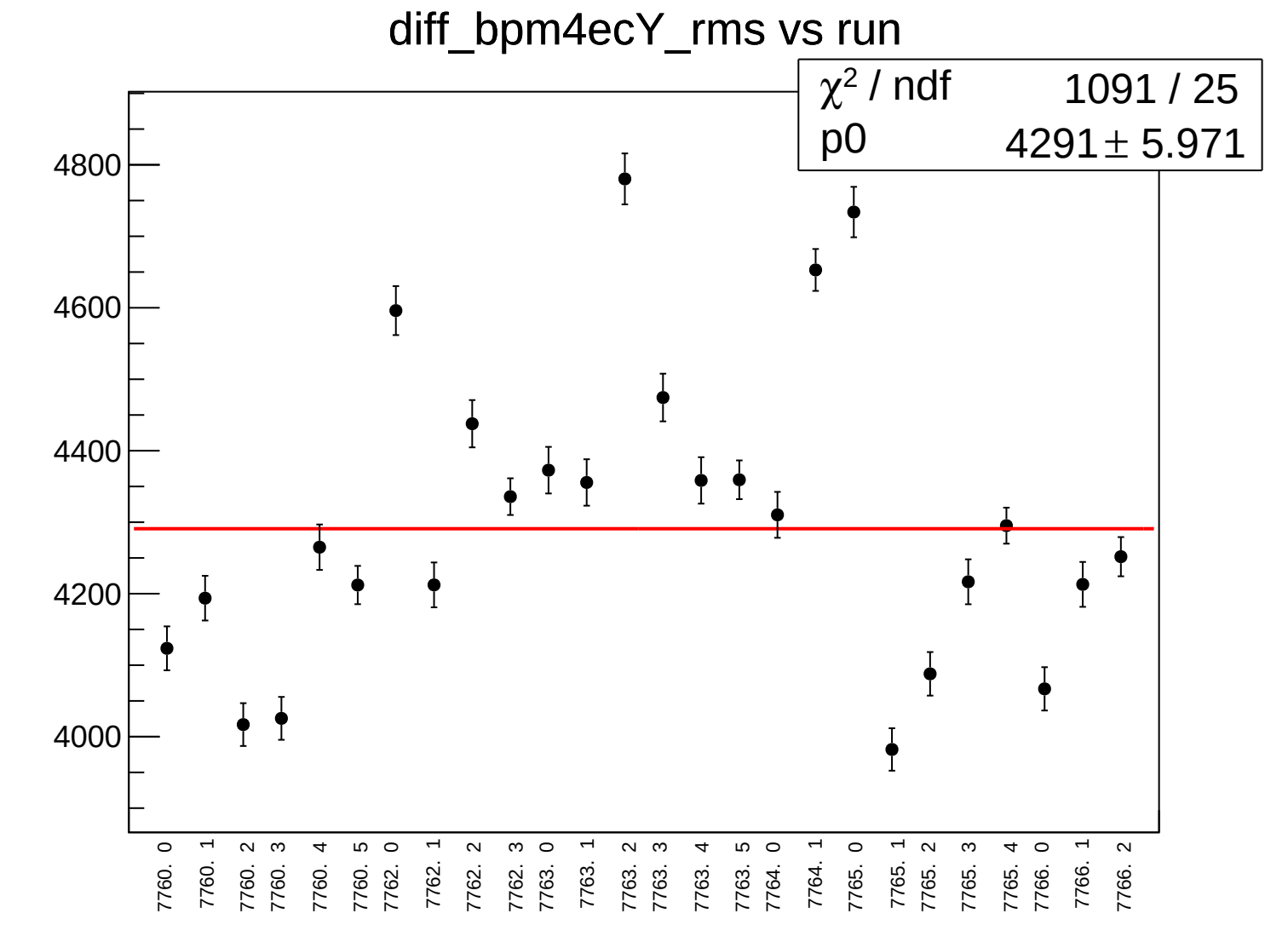

diff_bpm4ecX_mean vs run
χ² / ndf 34.86 / 25
p0 −103.6 ± 48.69
800
600
400
200
0
−200
−400
−600
−800
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −160.6
Std Dev 167.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

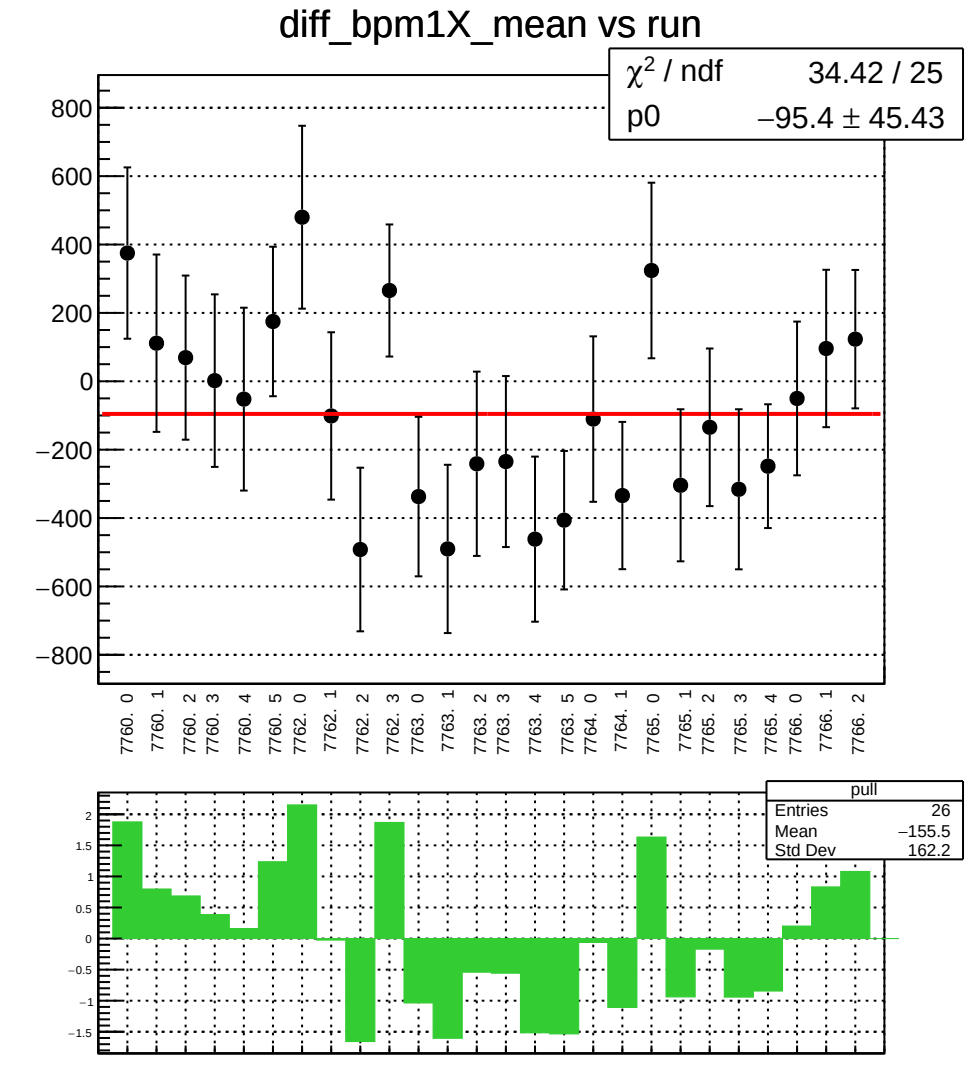

pull1D
Entries 26
Mean 0.01407
Std Dev 1.158
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

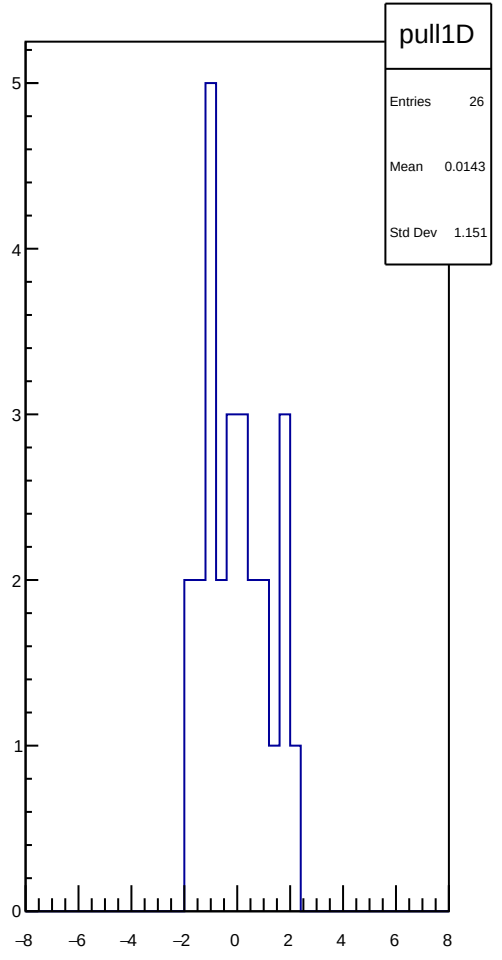

diff_bpm4ecX_rms vs run
χ² / ndf 1326 / 25
p0 2.474e+04 ± 34.43
28000
27000
26000
25000
24000
23000
22000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

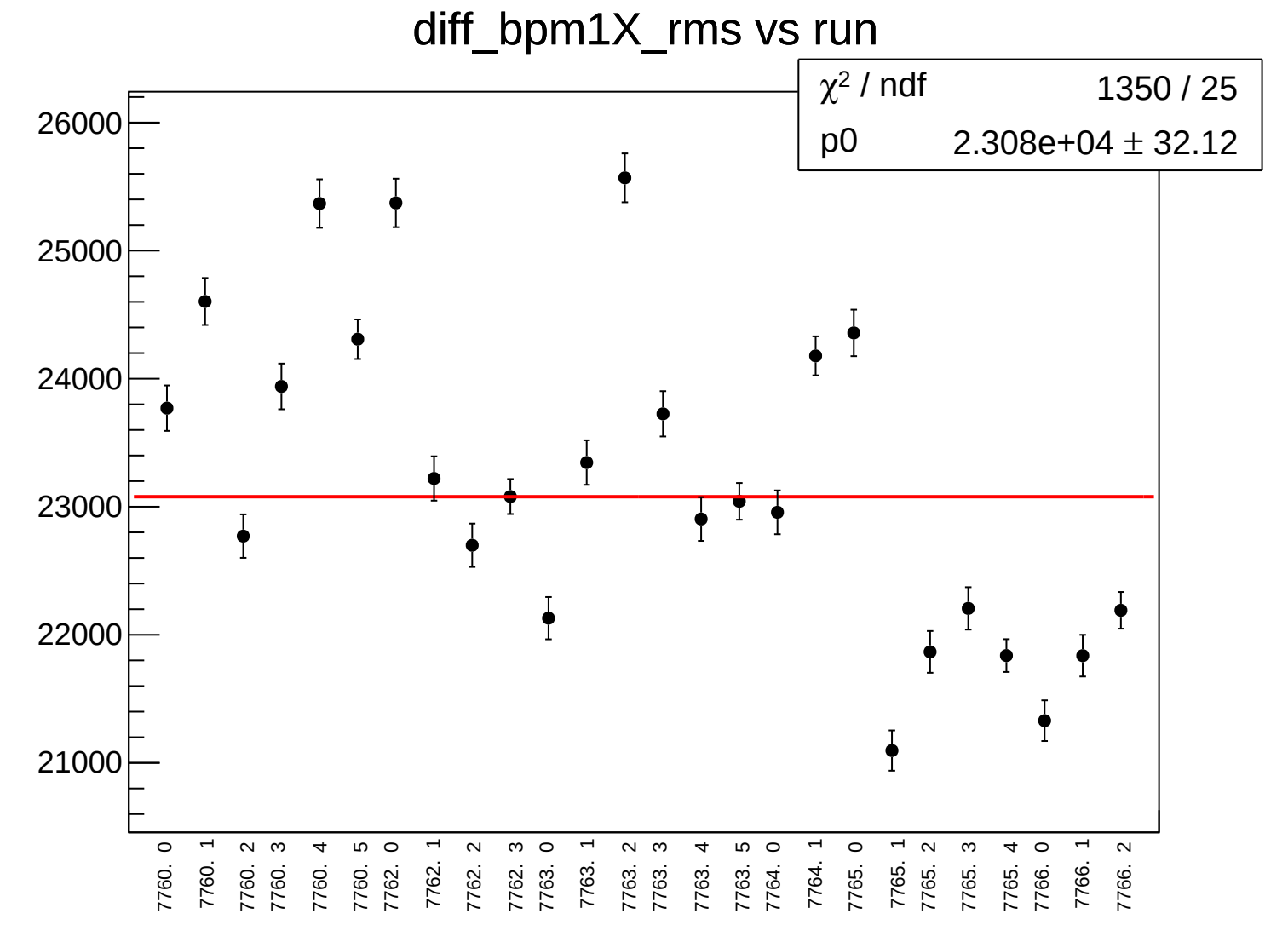

diff_bpm4ecY_mean vs run
χ² / ndf 16.84 / 25
p0 −8.18 ± 8.444
100
50
0
−50
−100
−150
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 1076
Std Dev 1057
1.5
1
0.5
0
−0.5
−1
−1.5

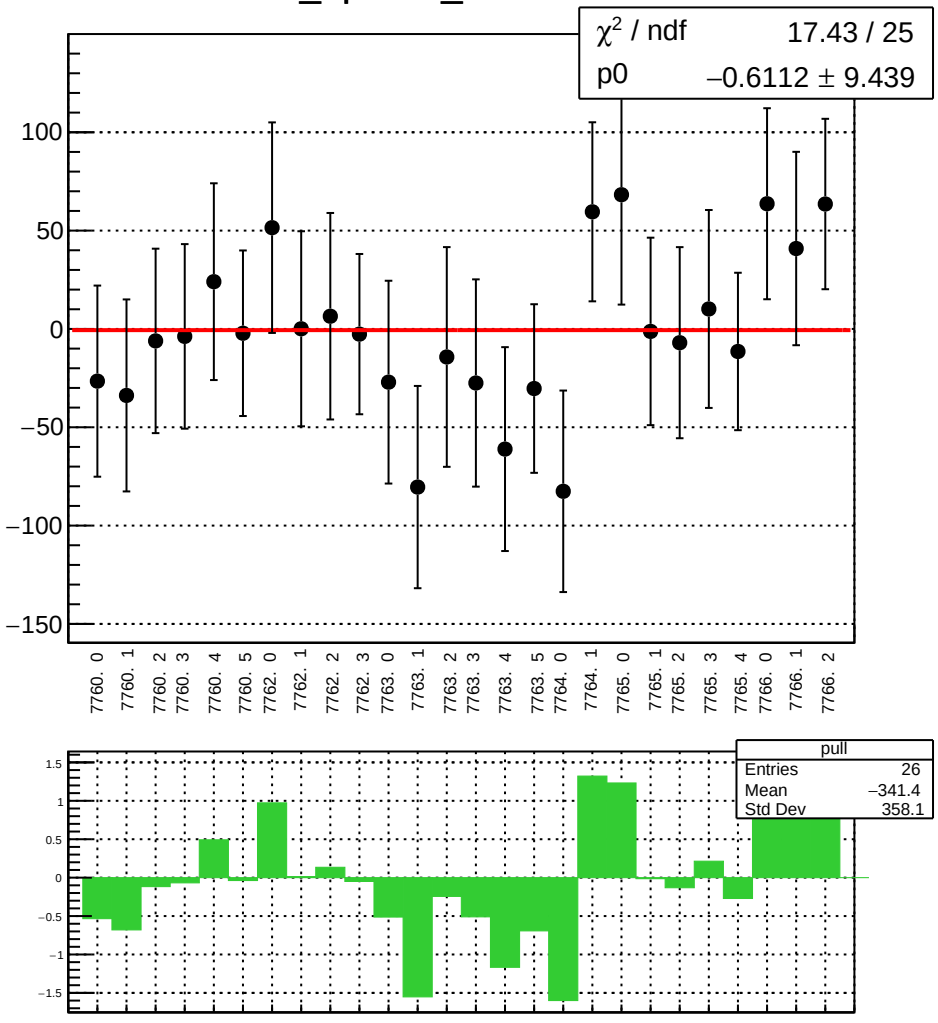

pull1D
Entries 26
Mean 0.001198
Std Dev 0.8048
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

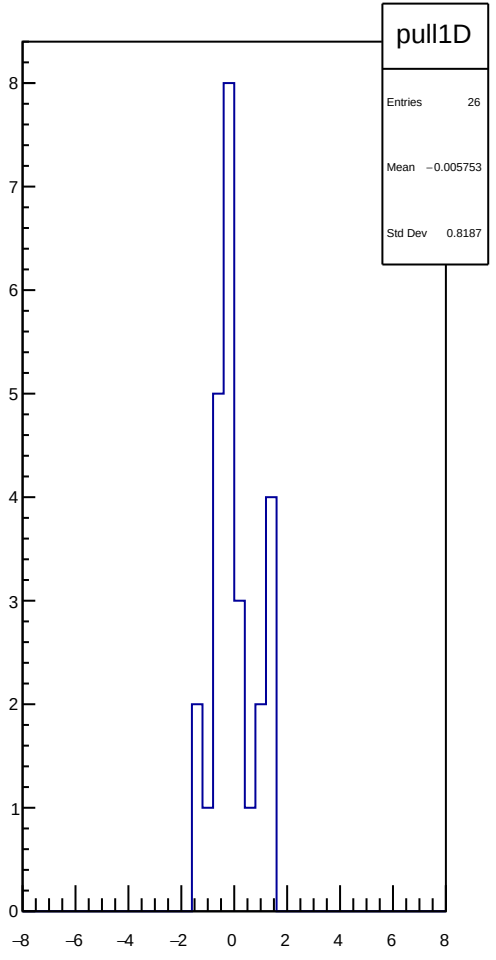

diff_bpm4ecY_rms vs run
χ² / ndf 1091 / 25
p0 4291 ± 5.971
4800
4600
4400
4200
4000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

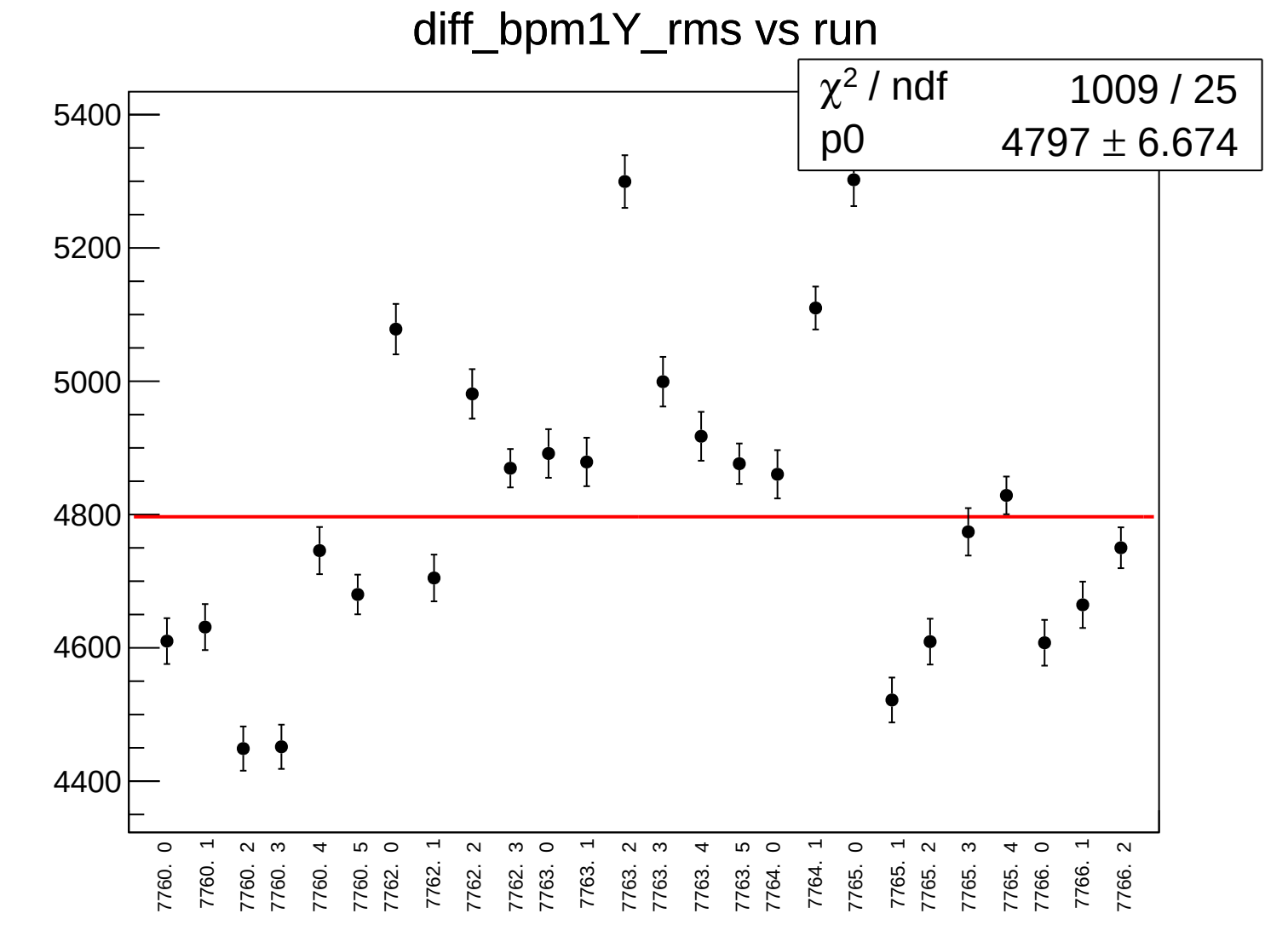

diff_bpm1X_mean vs run
χ² / ndf 34.42 / 25
p0 −95.4 ± 45.43
800
600
400
200
0
−200
−400
−600
−800
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −155.5
Std Dev 162.2
2
1.5
1
0.5
0
−0.5
−1
−1.5

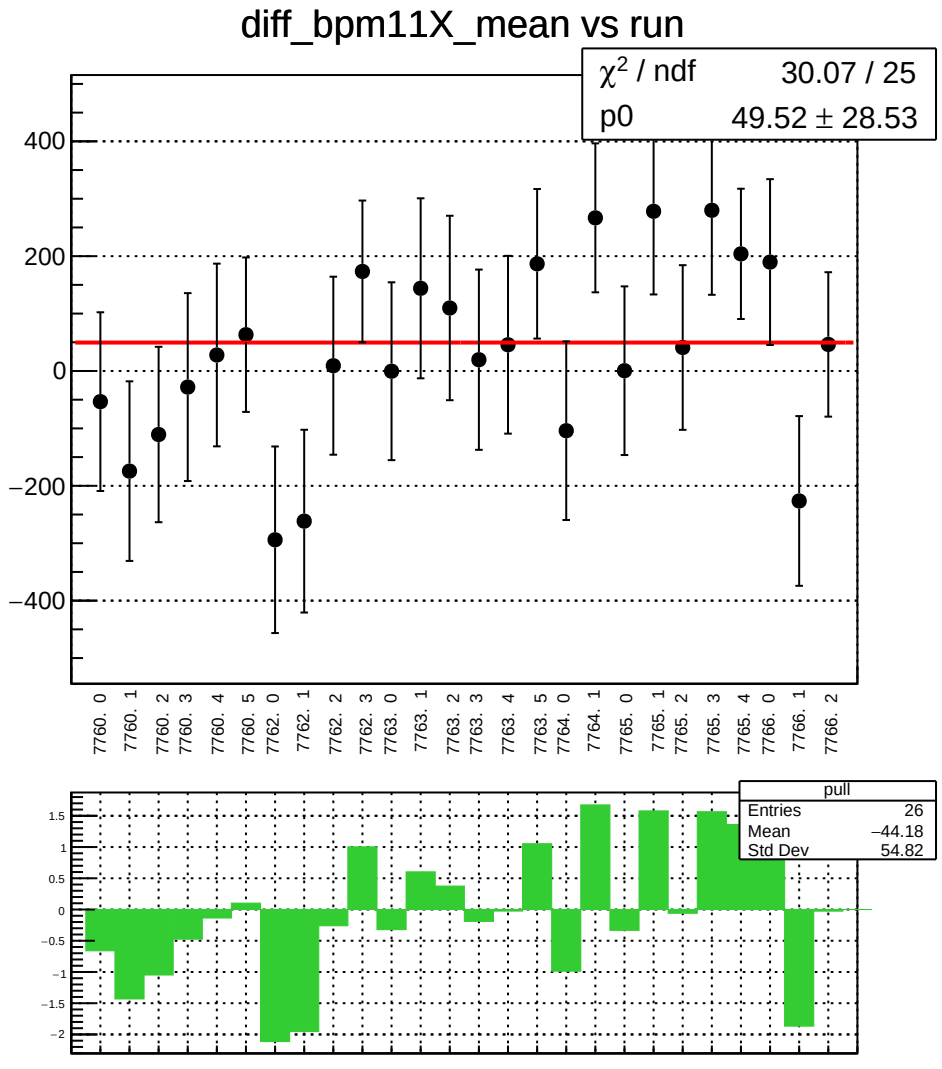

pull1D
Entries 26
Mean 0.0143
Std Dev 1.151
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

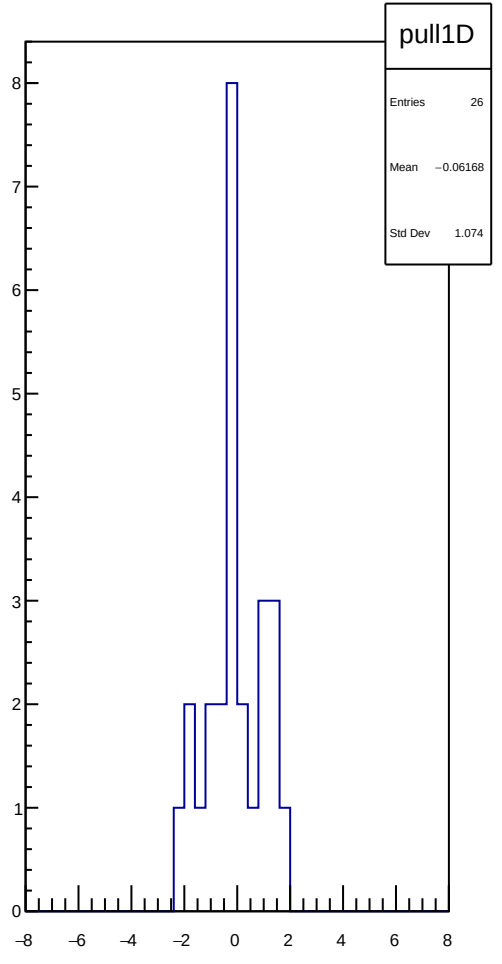

diff_bpm1X_rms vs run
χ² / ndf 1350 / 25
p0 2.308e+04 ± 32.12
26000
25000
24000
23000
22000
21000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

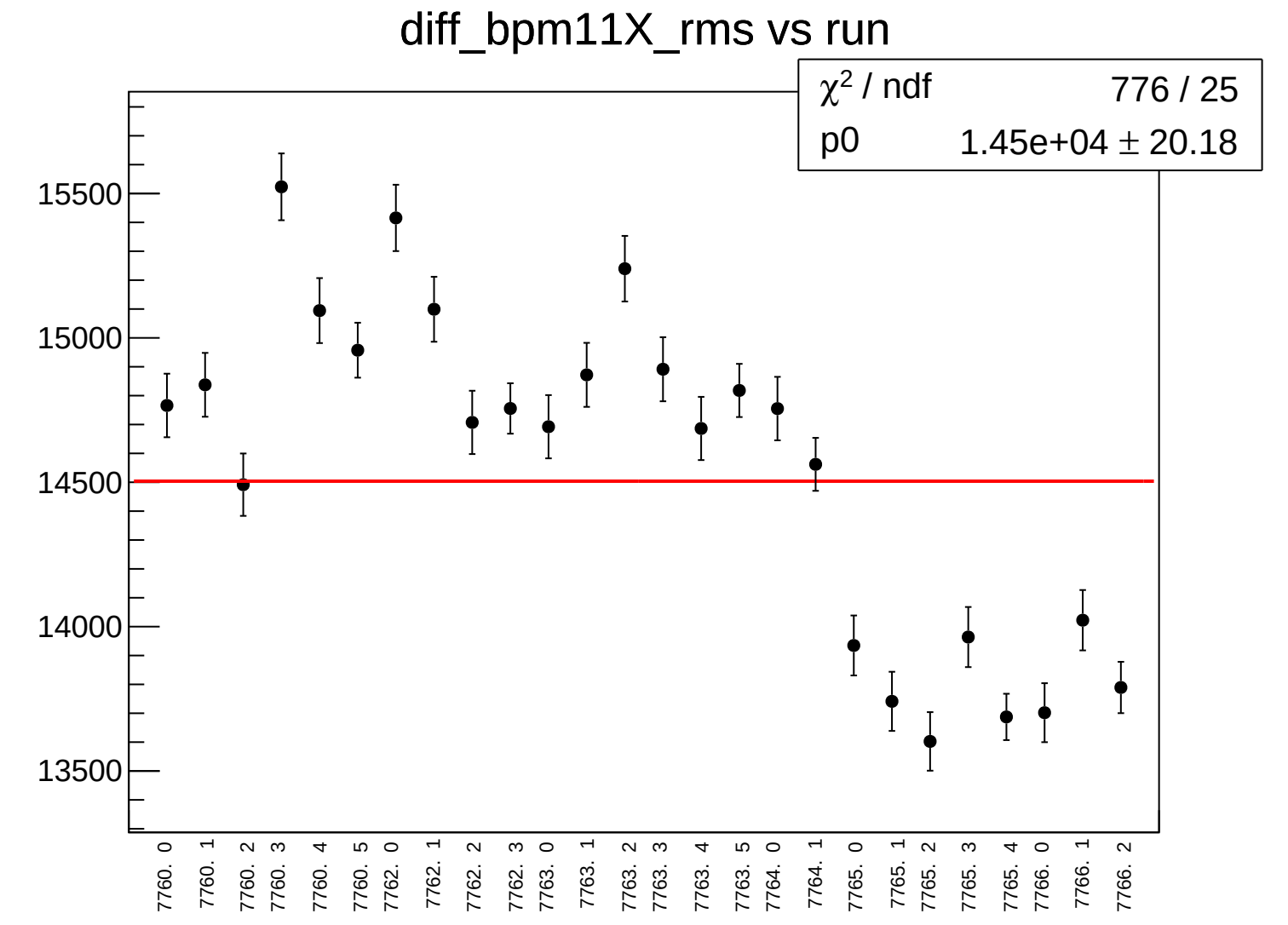

diff_bpm1Y_mean vs run
χ² / ndf 17.43 / 25
p0 −0.6112 ± 9.439
100
50
0
−50
−100
−150
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −341.4
Std Dev 358.1
1.5
1
0.5
0
−0.5
−1
−1.5

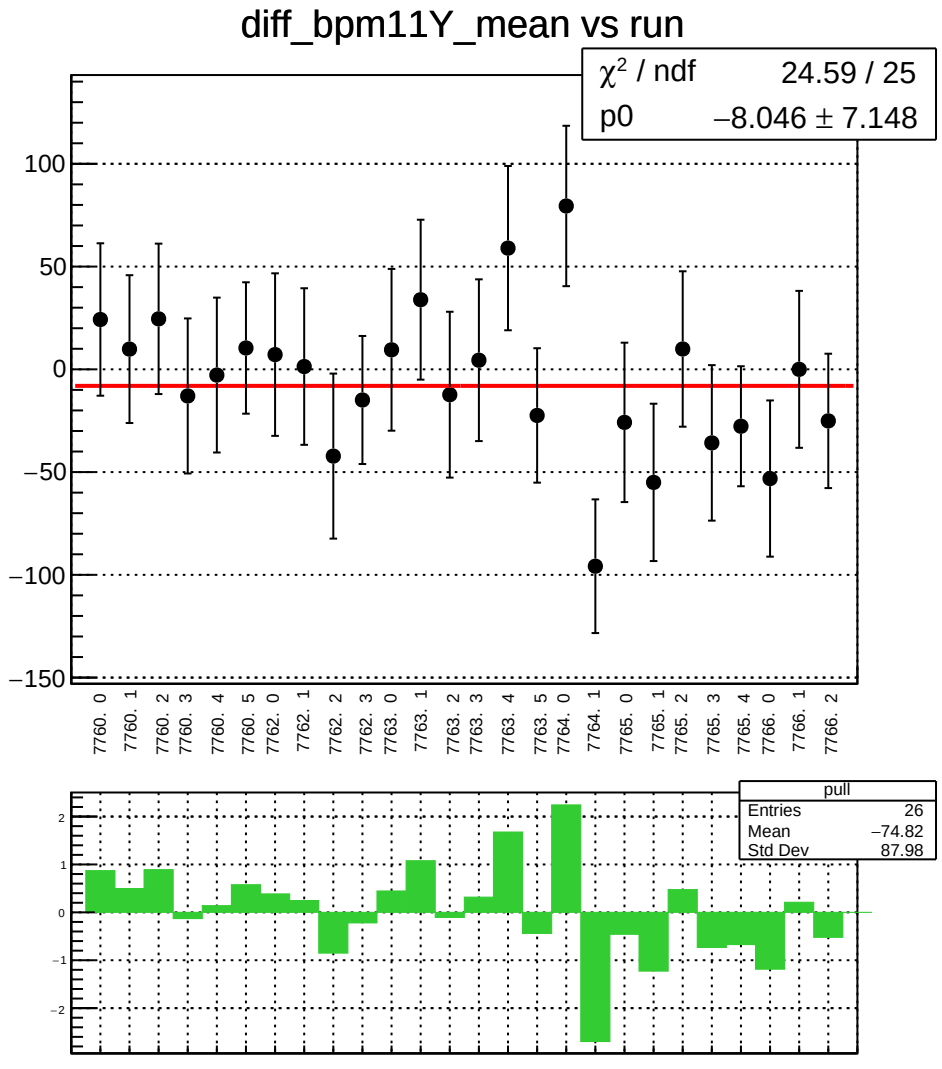

pull1D
Entries 26
Mean −0.005753
Std Dev 0.8187
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

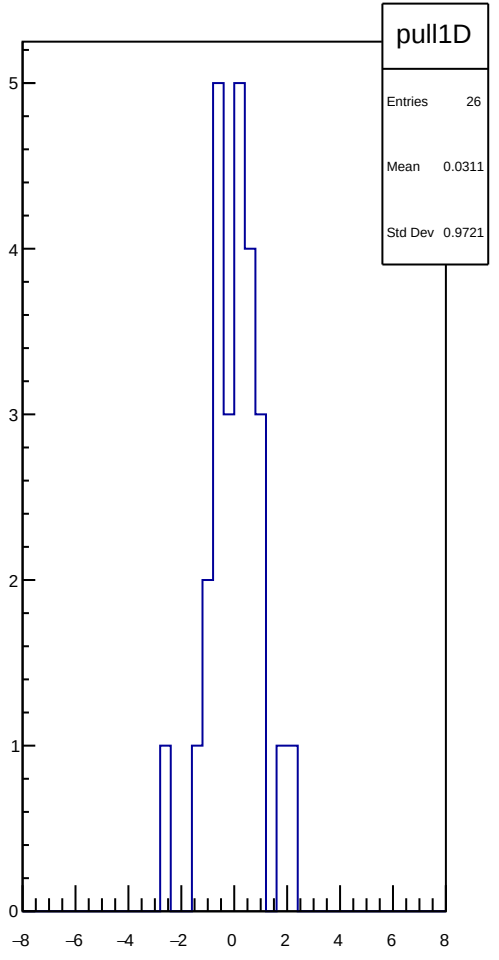

diff_bpm1Y_rms vs run
χ² / ndf 1009 / 25
p0 4797 ± 6.674
5400
5200
5000
4800
4600
4400
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

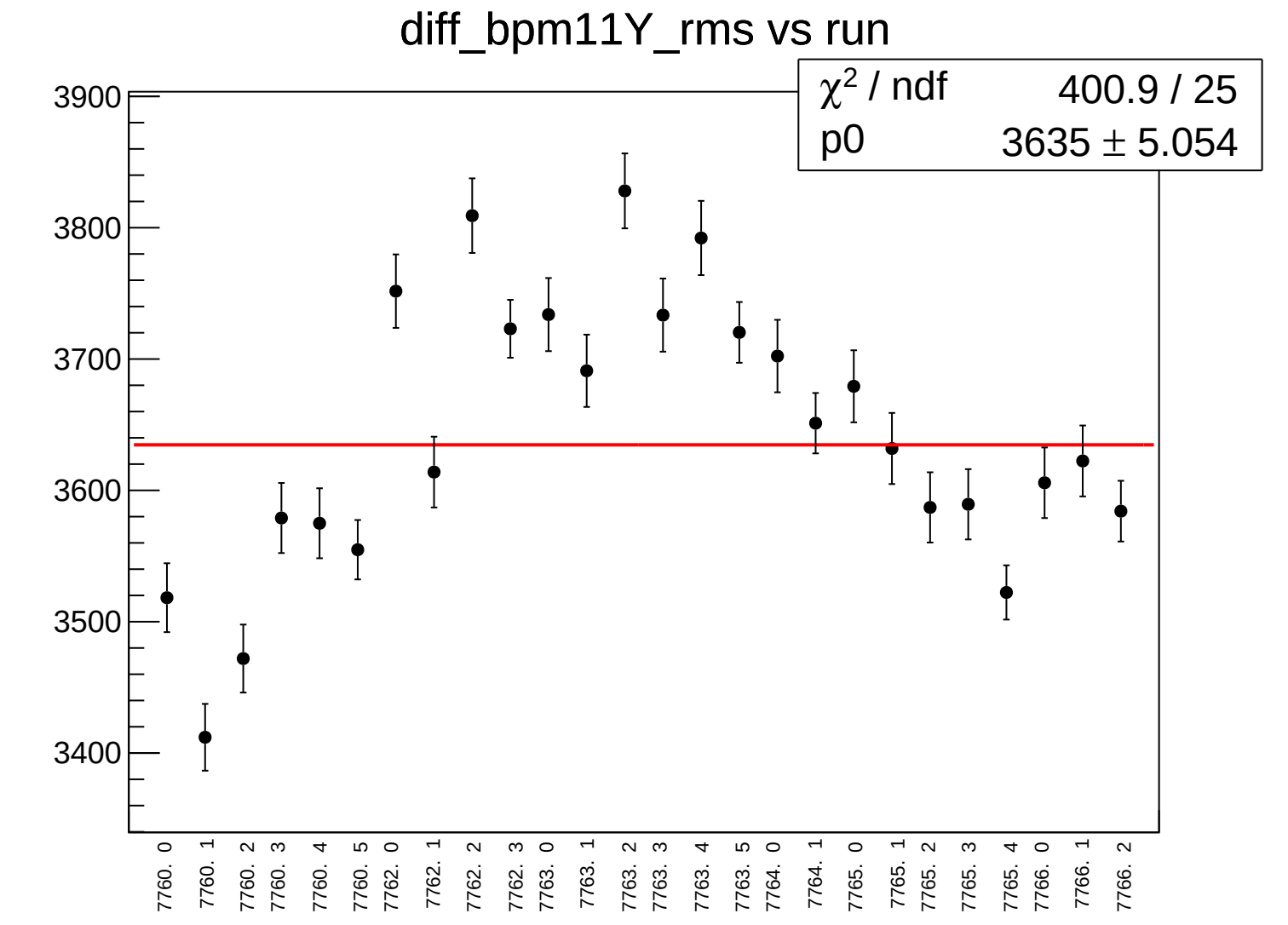

diff_bpm11X_mean vs run
χ² / ndf 30.07 / 25
p0 49.52 ± 28.53
400
200
0
−200
−400
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −44.18
Std Dev 54.82
1.5
1
0.5
0
−0.5
−1
−1.5
−2

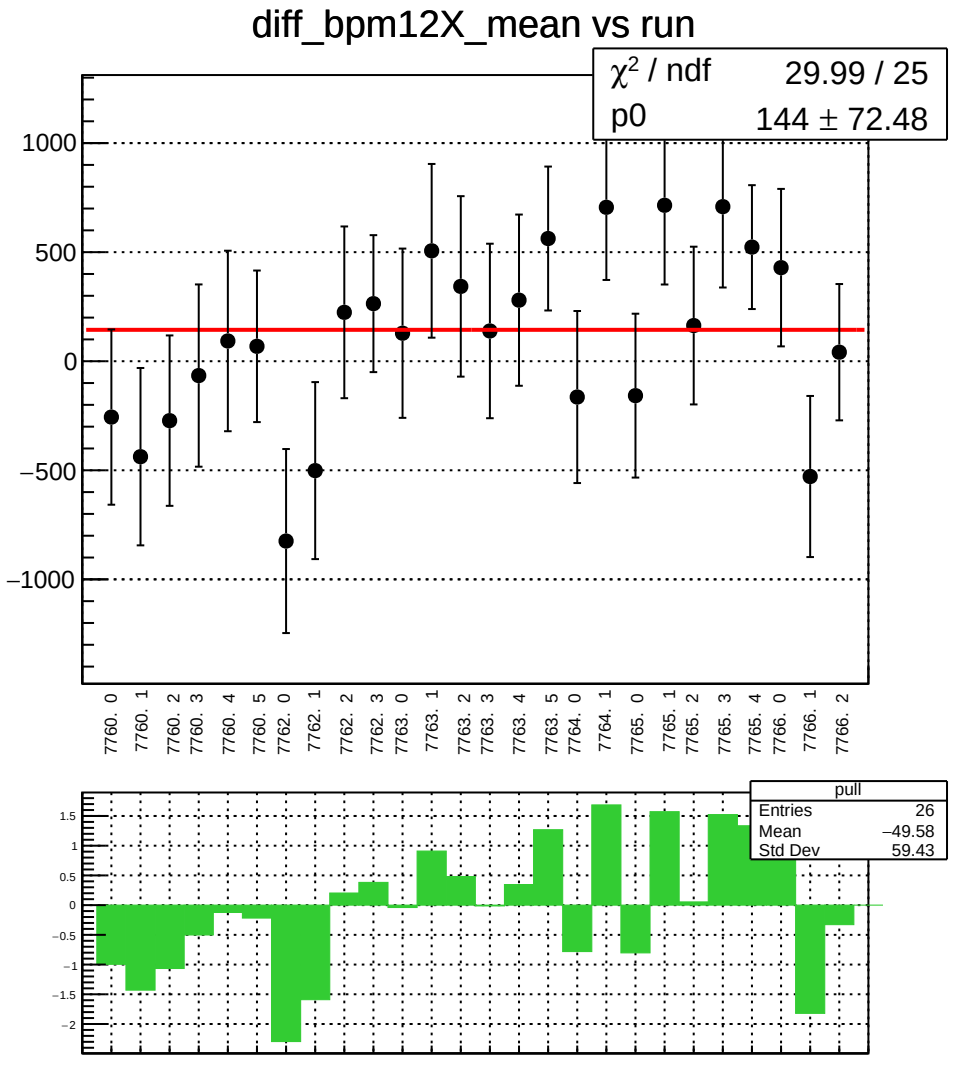

pull1D
Entries 26
Mean −0.06168
Std Dev 1.074
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

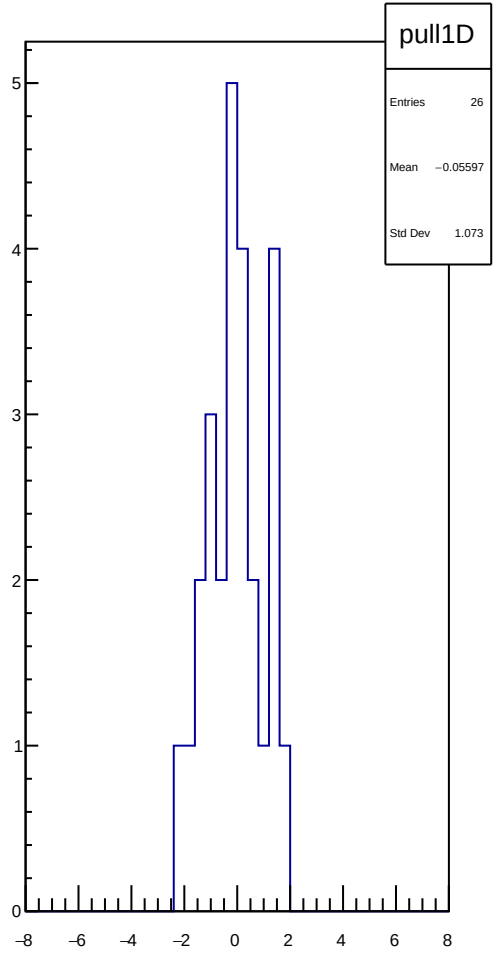

diff_bpm11X_rms vs run
χ² / ndf 776 / 25
p0 1.45e+04 ± 20.18
15500
15000
14500
14000
13500
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

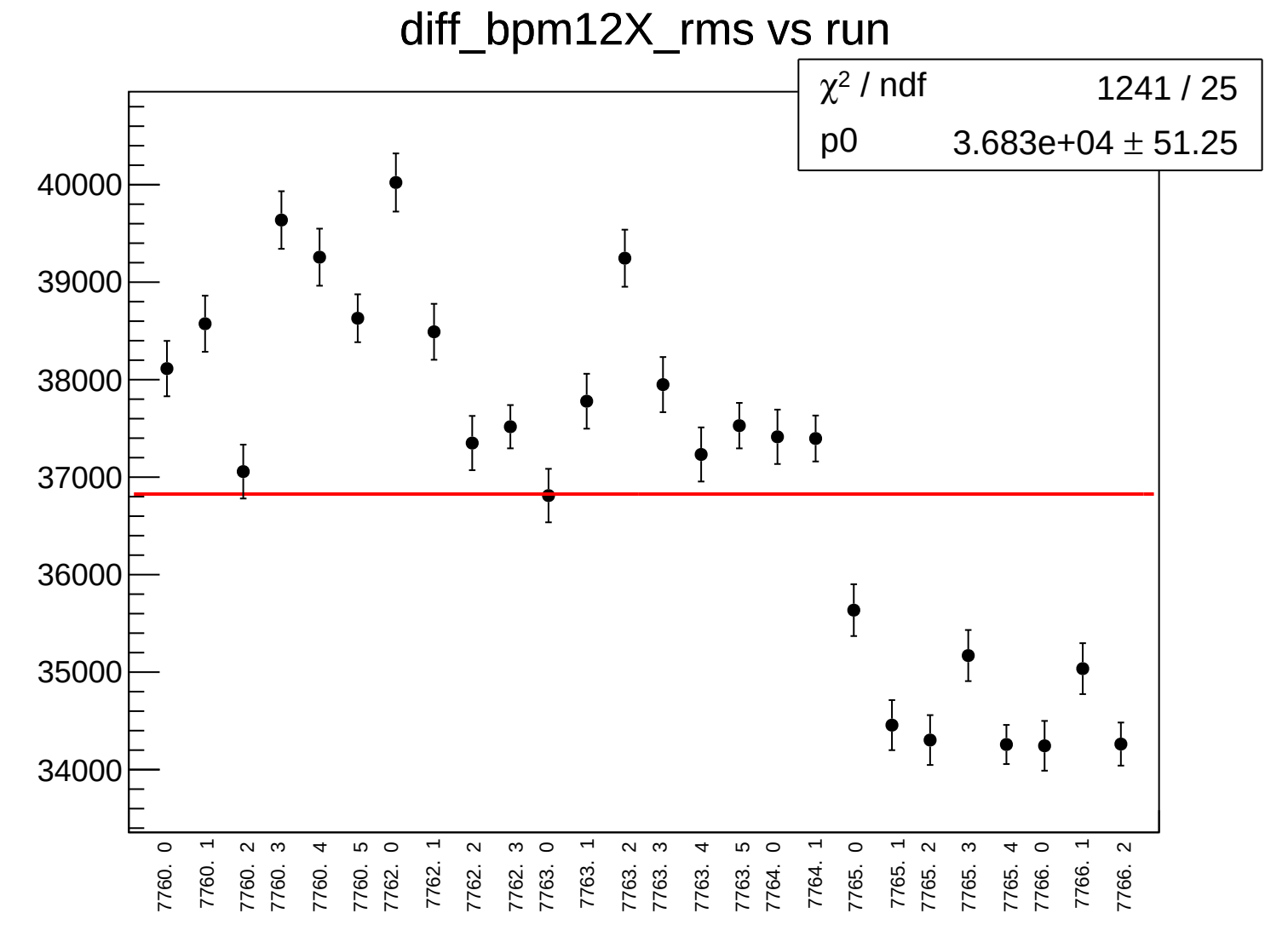

diff_bpm11Y_mean vs run
χ² / ndf 24.59 / 25
p0 −8.046 ± 7.148
100
50
0
−50
−100
−150
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −74.82
Std Dev 87.98
2
1
0
−1
−2

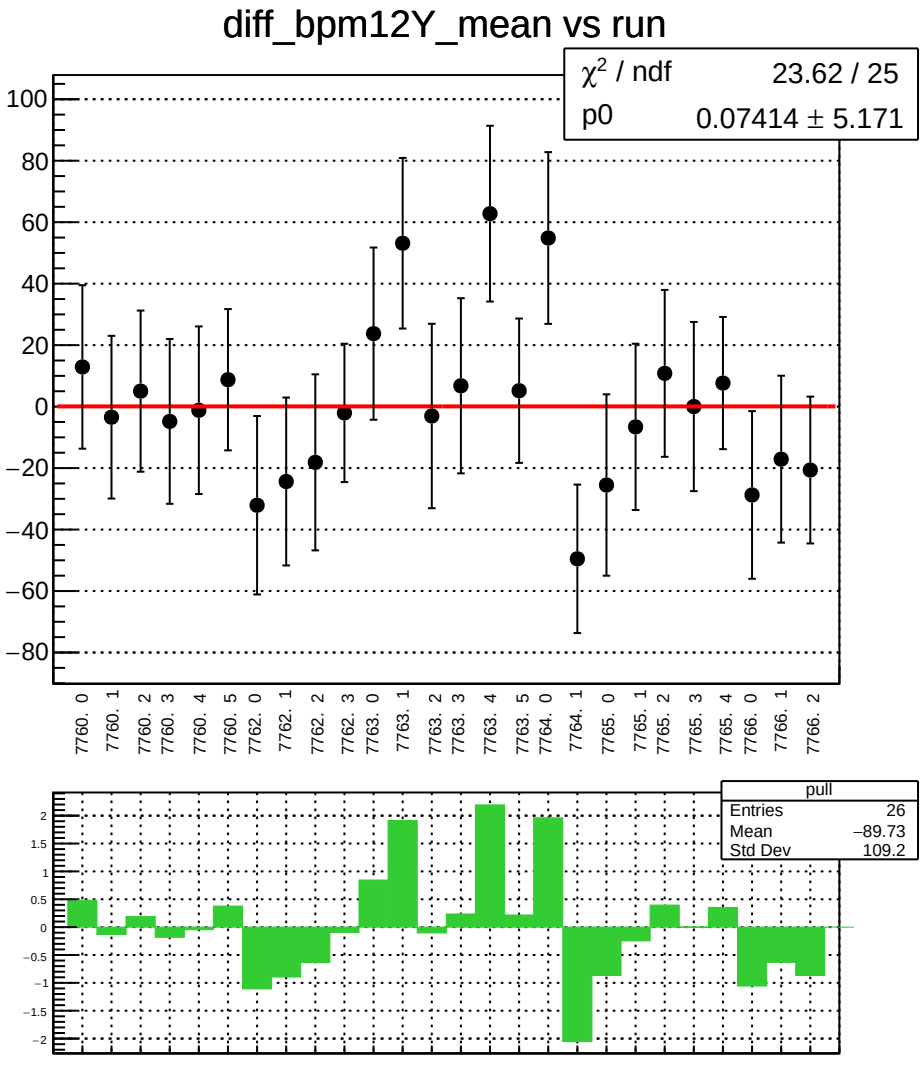

pull1D
Entries 26
Mean 0.0311
Std Dev 0.9721
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

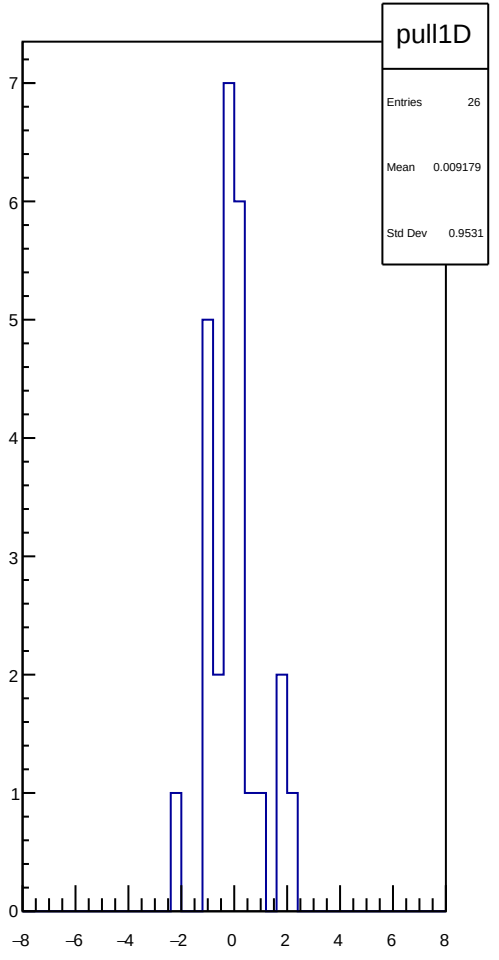

diff_bpm11Y_rms vs run
χ² / ndf 400.9 / 25
p0 3635 ± 5.054
3900
3800
3700
3600
3500
3400
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

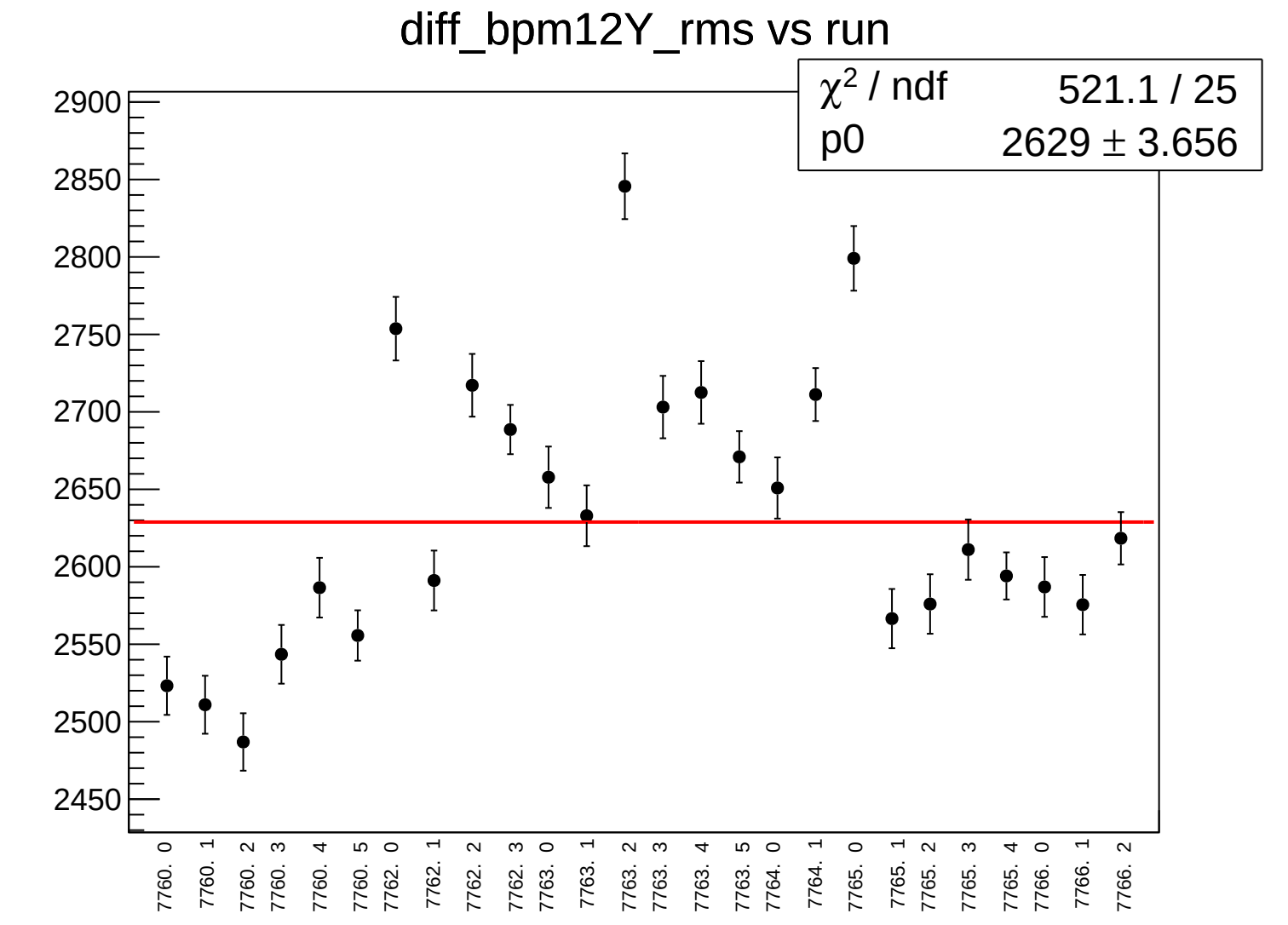

diff_bpm12X_mean vs run
χ² / ndf 29.99 / 25
p0 144 ± 72.48
1000
500
0
−500
−1000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −49.58
Std Dev 59.43
1.5
1
0.5
0
−0.5
−1
−1.5
−2

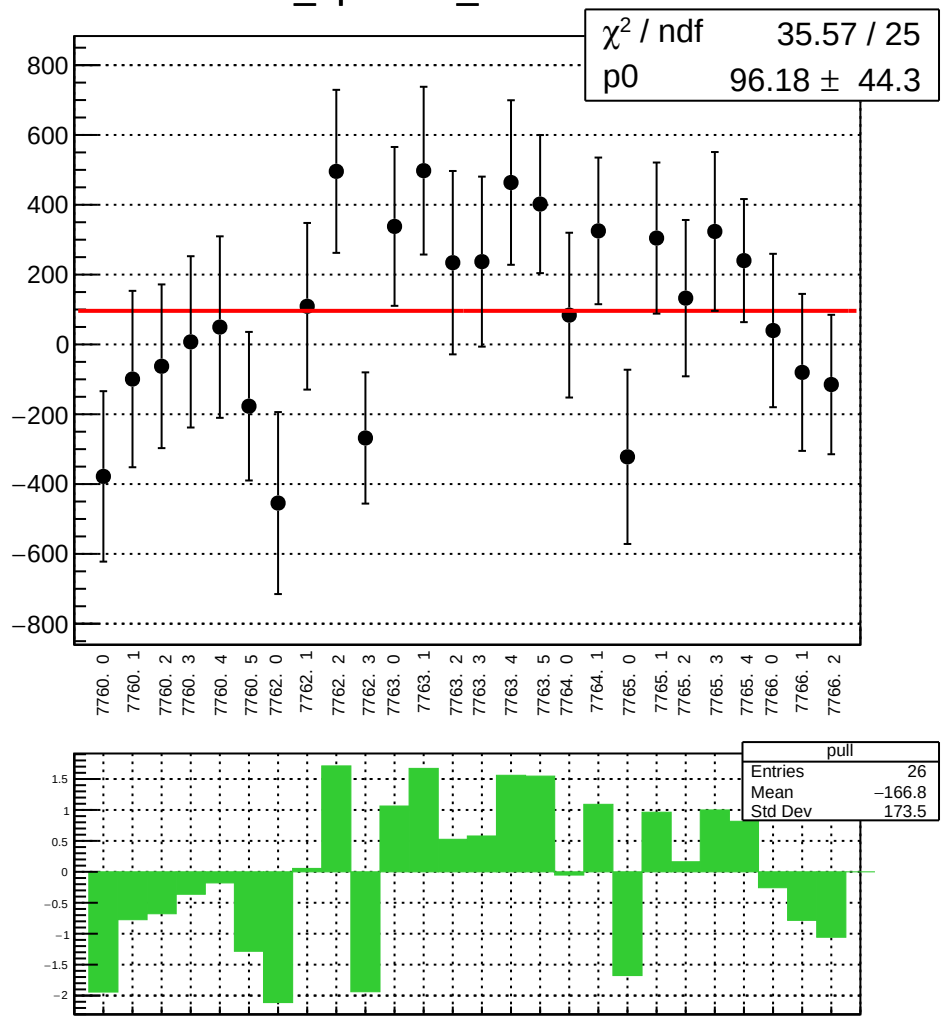

pull1D
Entries 26
Mean −0.05597
Std Dev 1.073
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

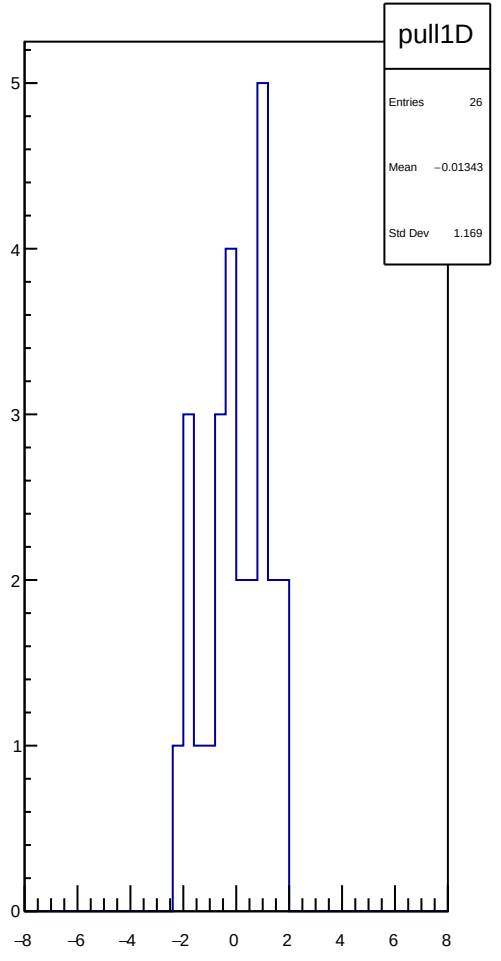

diff_bpm12X_rms vs run
χ² / ndf 1241 / 25
p0 3.683e+04 ± 51.25
40000
39000
38000
37000
36000
35000
34000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

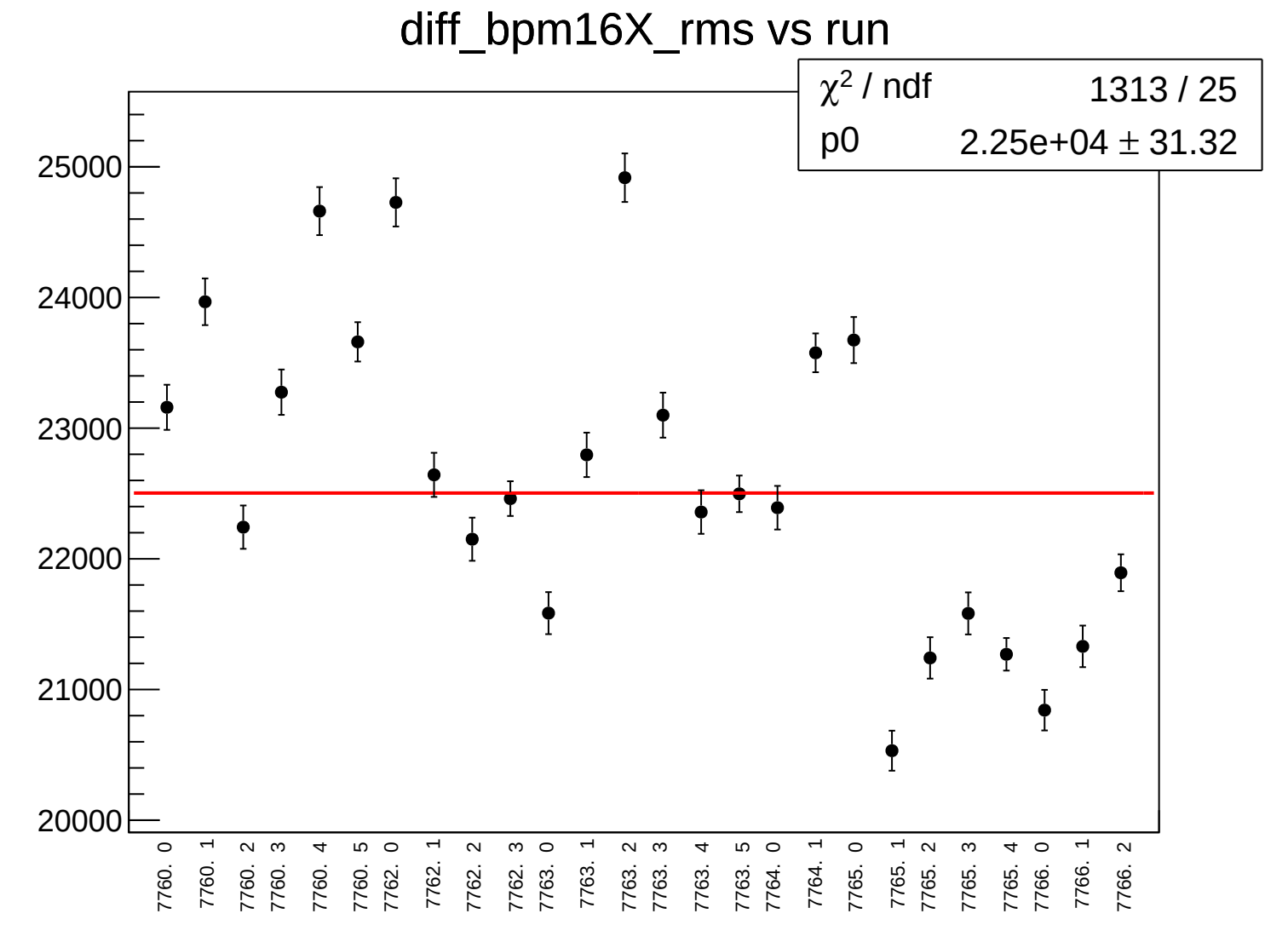

diff_bpm12Y_mean vs run
χ² / ndf 23.62 / 25
p0 0.07414 ± 5.171
100
80
60
40
20
0
−20
−40
−60
−80
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −89.73
Std Dev 109.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

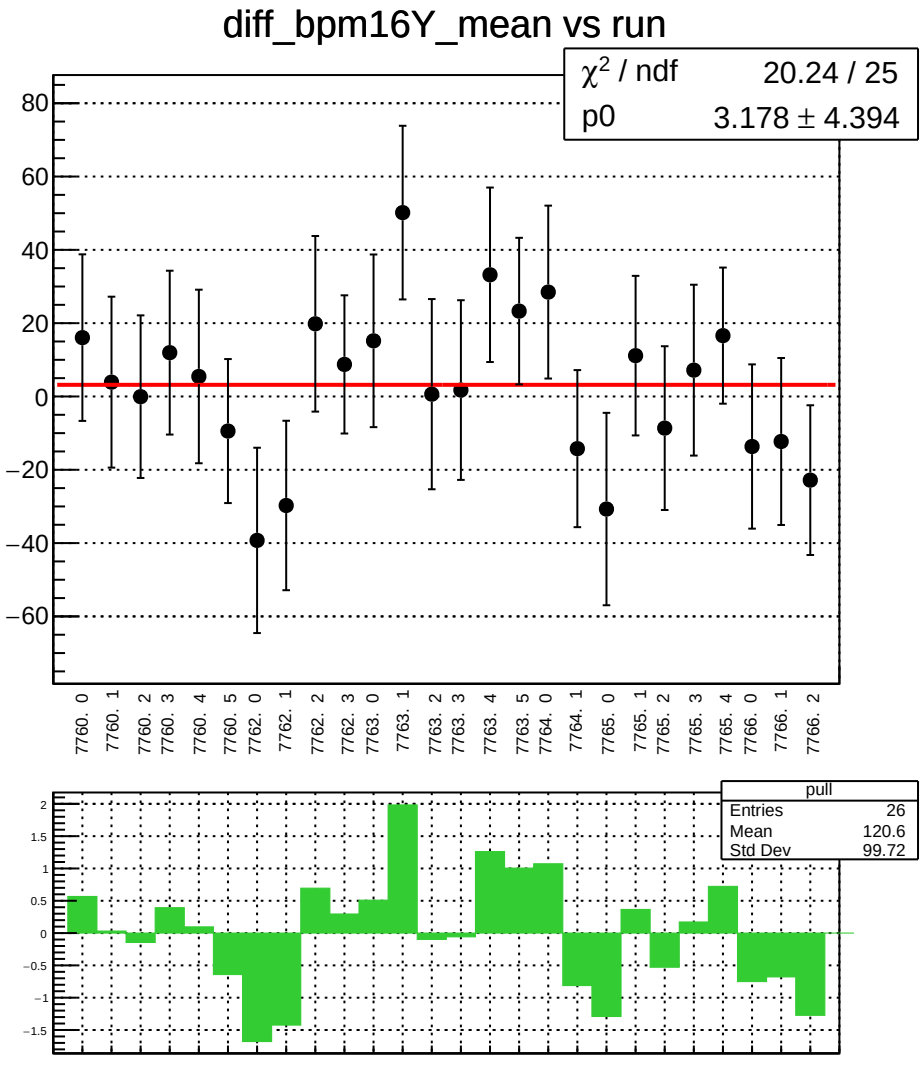

pull1D
Entries 26
Mean 0.009179
Std Dev 0.9531
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

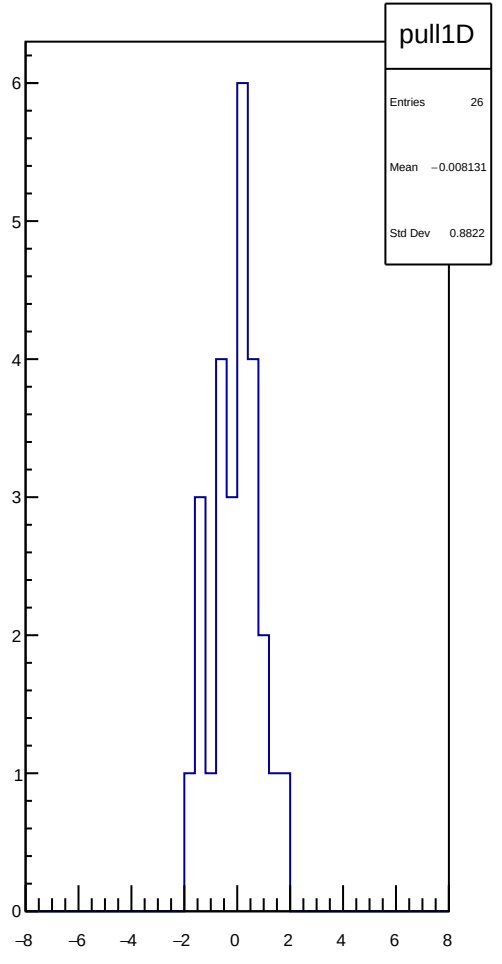

diff_bpm12Y_rms vs run
χ² / ndf 521.1 / 25
p0 2629 ± 3.656
2900
2850
2800
2750
2700
2650
2600
2550
2500
2450
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

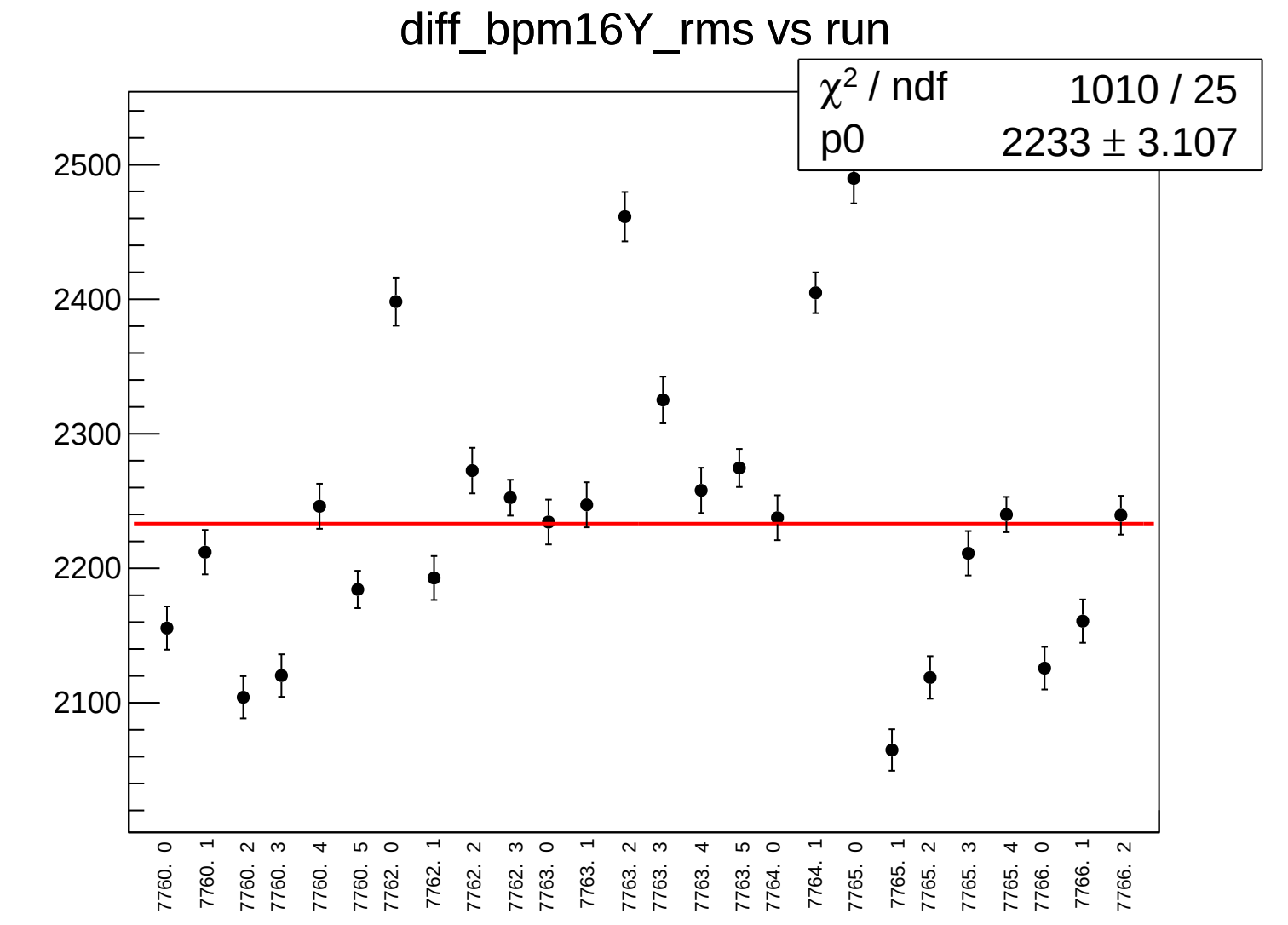

diff_bpm16X_mean vs run
χ² / ndf 35.57 / 25
p0 96.18 ± 44.3
800
600
400
200
0
−200
−400
−600
−800
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −166.8
Std Dev 173.5
1.5
1
0.5
0
−0.5
−1
−1.5
−2

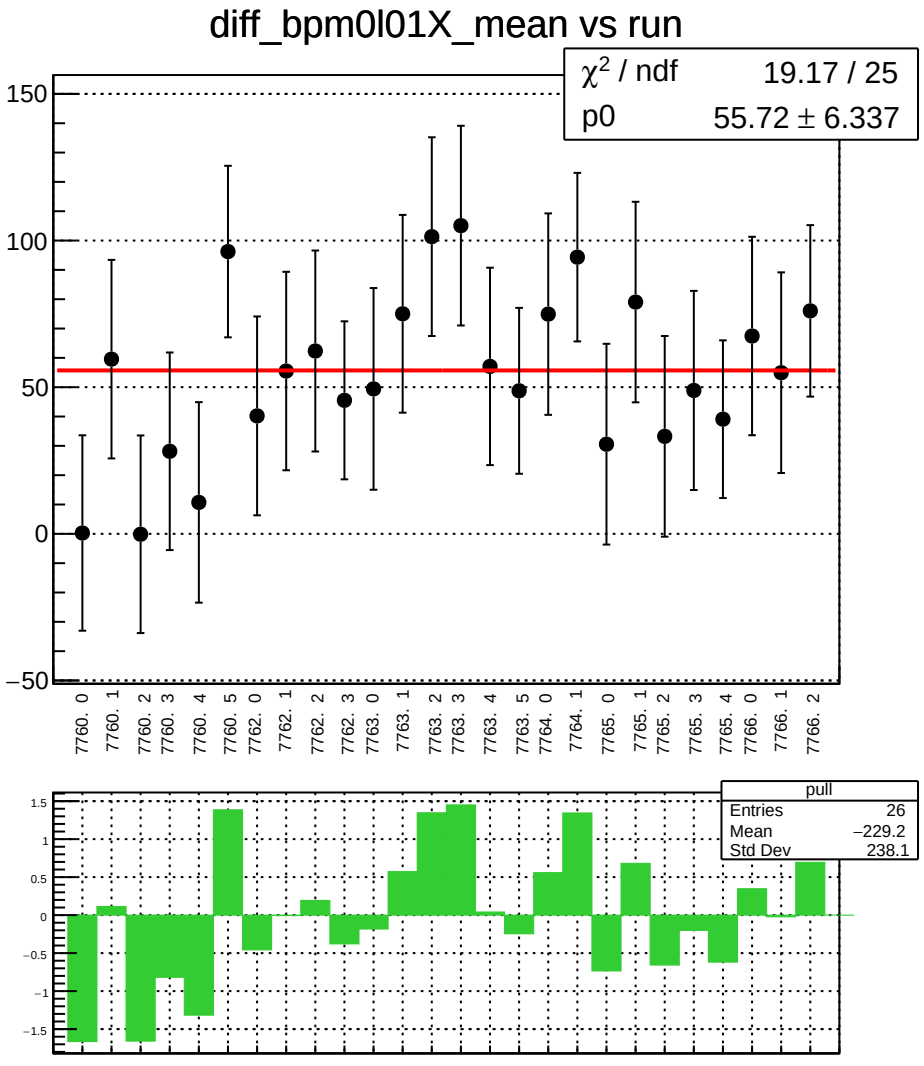

pull1D
Entries 26
Mean −0.01343
Std Dev 1.169
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

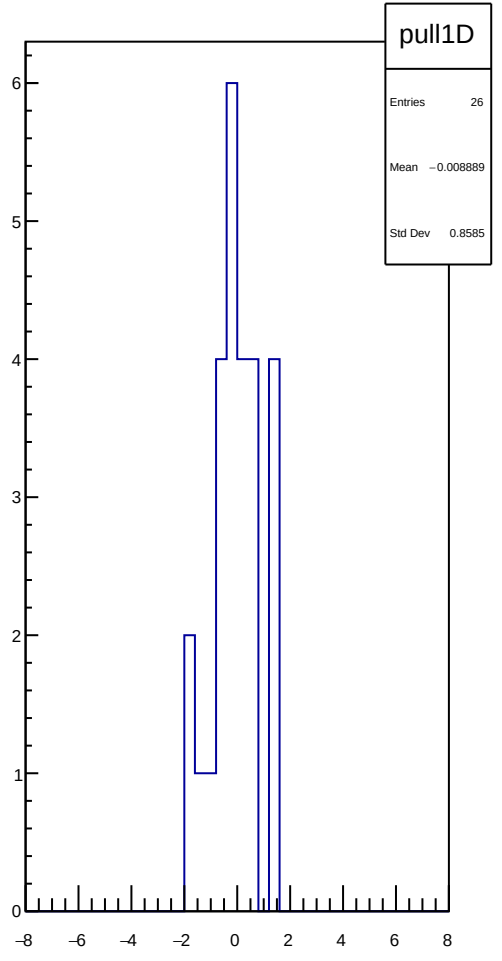

diff_bpm16X_rms vs run
χ² / ndf 1313 / 25
p0 2.25e+04 ± 31.32
25000
24000
23000
22000
21000
20000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

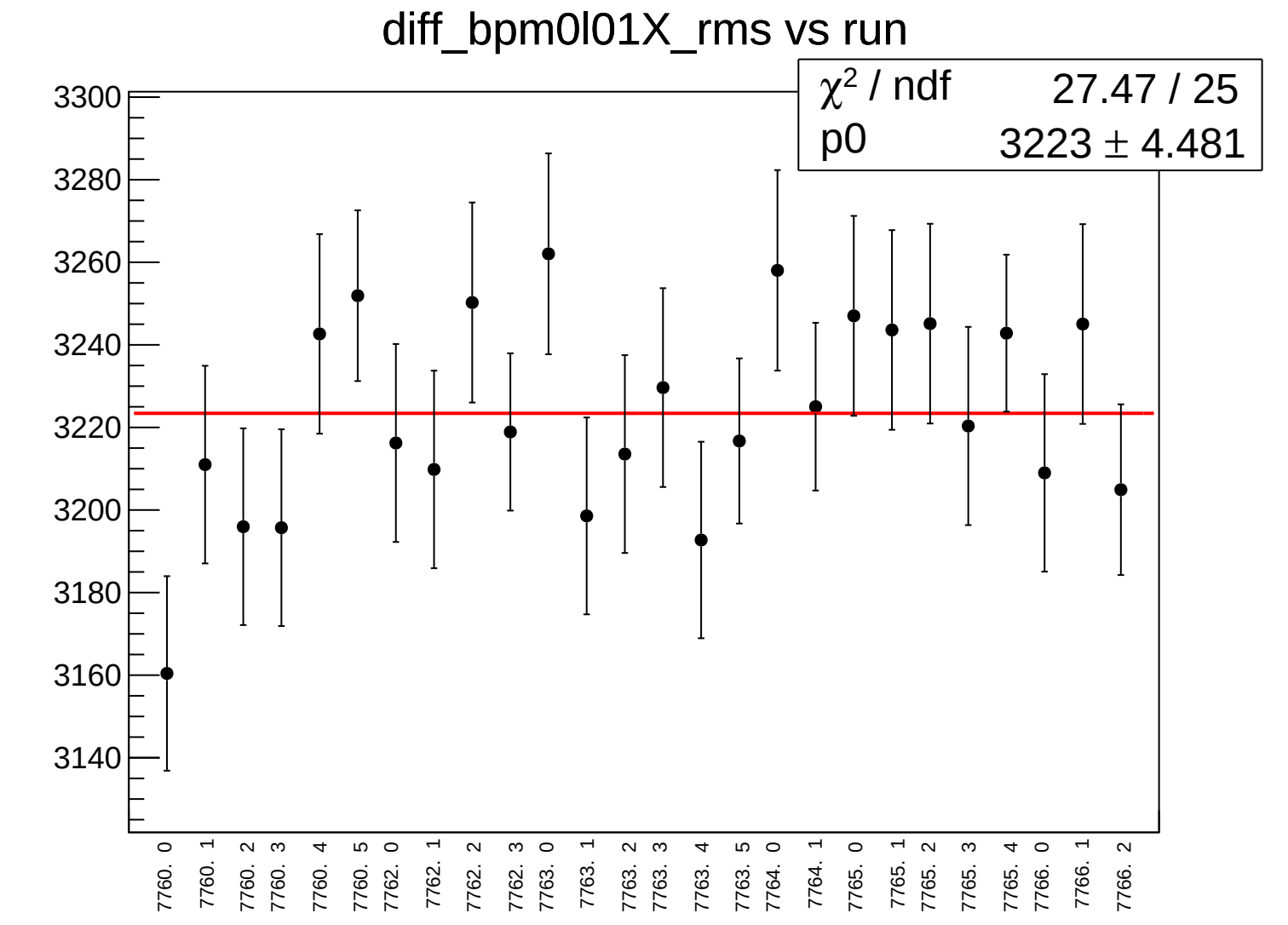

diff_bpm16Y_mean vs run
χ² / ndf 20.24 / 25
p0 3.178 ± 4.394
80
60
40
20
0
−20
−40
−60
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 120.6
Std Dev 99.72
2
1.5
1
0.5
0
−0.5
−1
−1.5

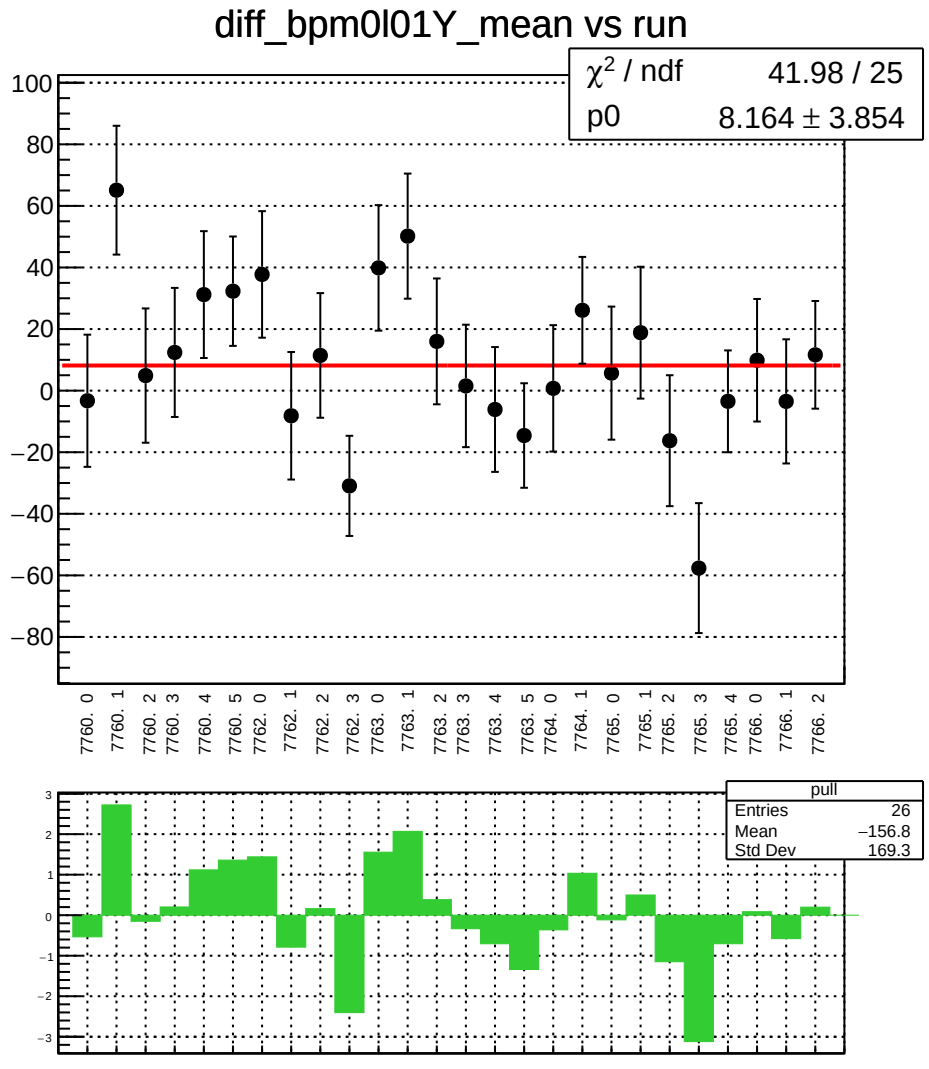

pull1D
Entries 26
Mean −0.008131
Std Dev 0.8822
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

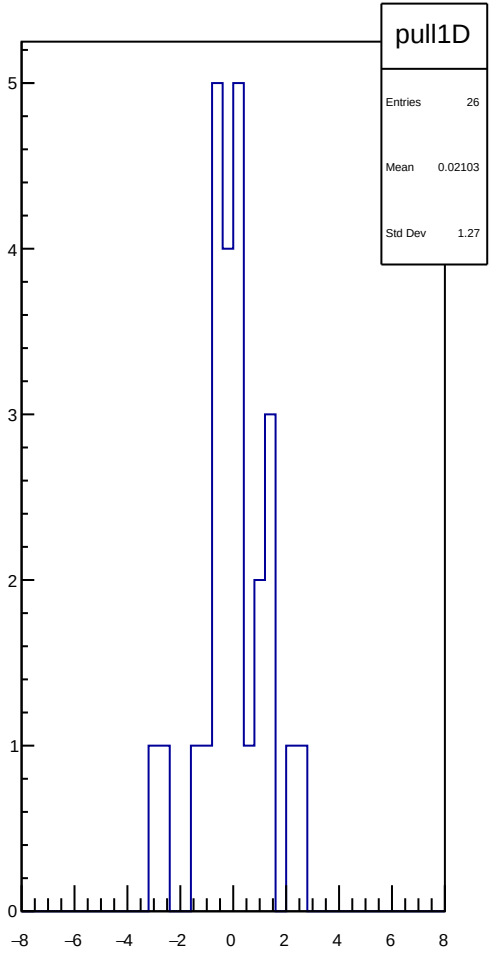

diff_bpm16Y_rms vs run
χ² / ndf 1010 / 25
p0 2233 ± 3.107
2500
2400
2300
2200
2100
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

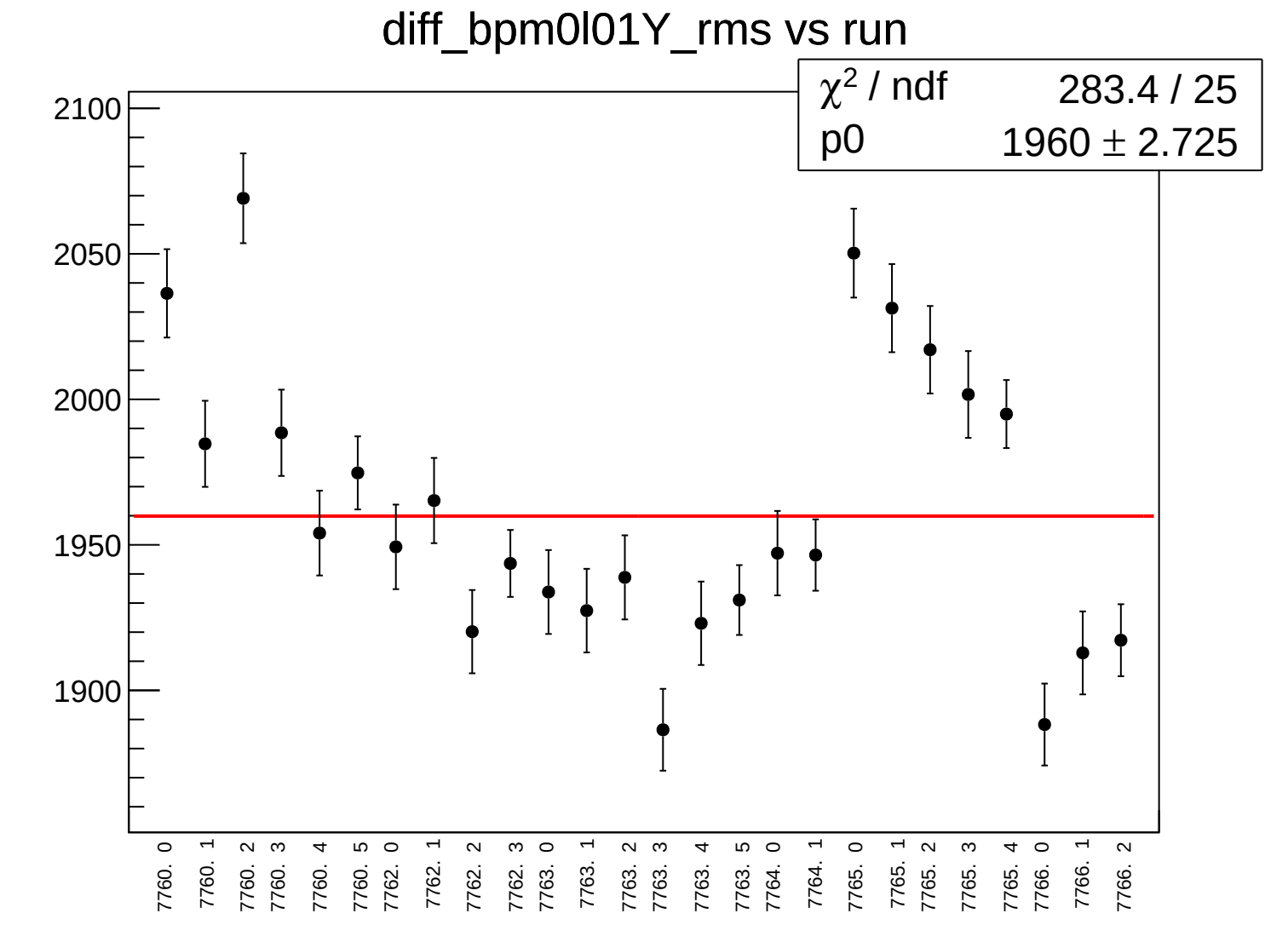

diff_bpm0l01X_mean vs run
χ² / ndf 19.17 / 25
p0 55.72 ± 6.337
150
100
50
0
−50
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −229.2
Std Dev 238.1
1.5
1
0.5
0
−0.5
−1
−1.5

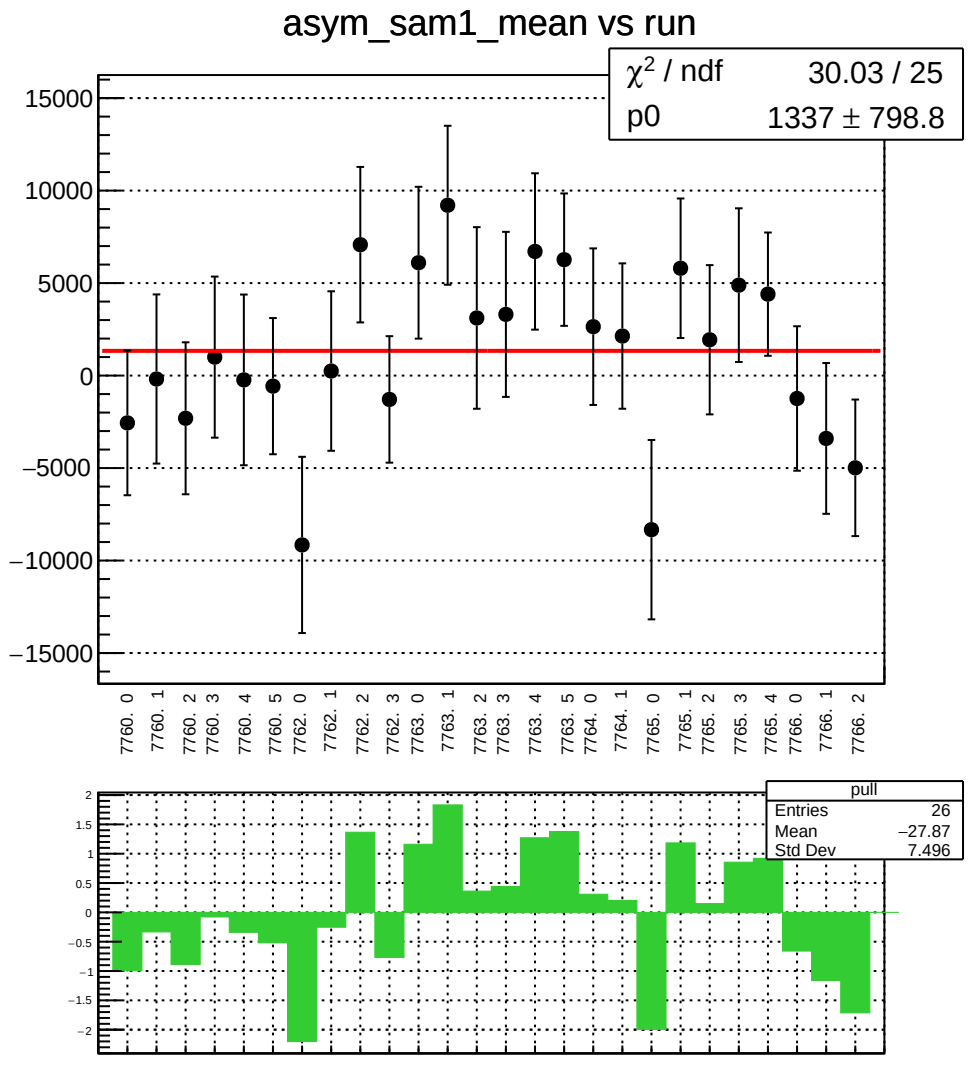

pull1D
Entries 26
Mean −0.008889
Std Dev 0.8585
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

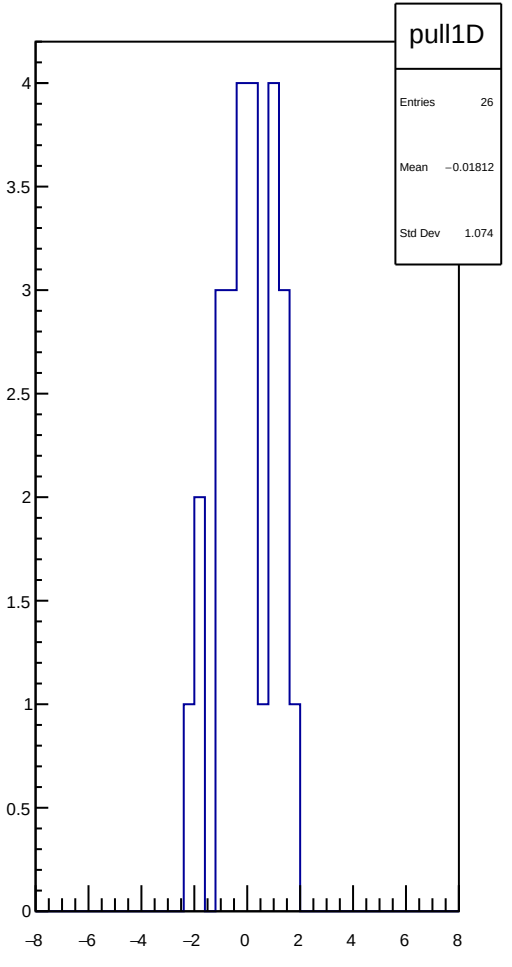

diff_bpm0l01X_rms vs run
χ² / ndf 27.47 / 25
p0 3223 ± 4.481
3300
3280
3260
3240
3220
3200
3180
3160
3140
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

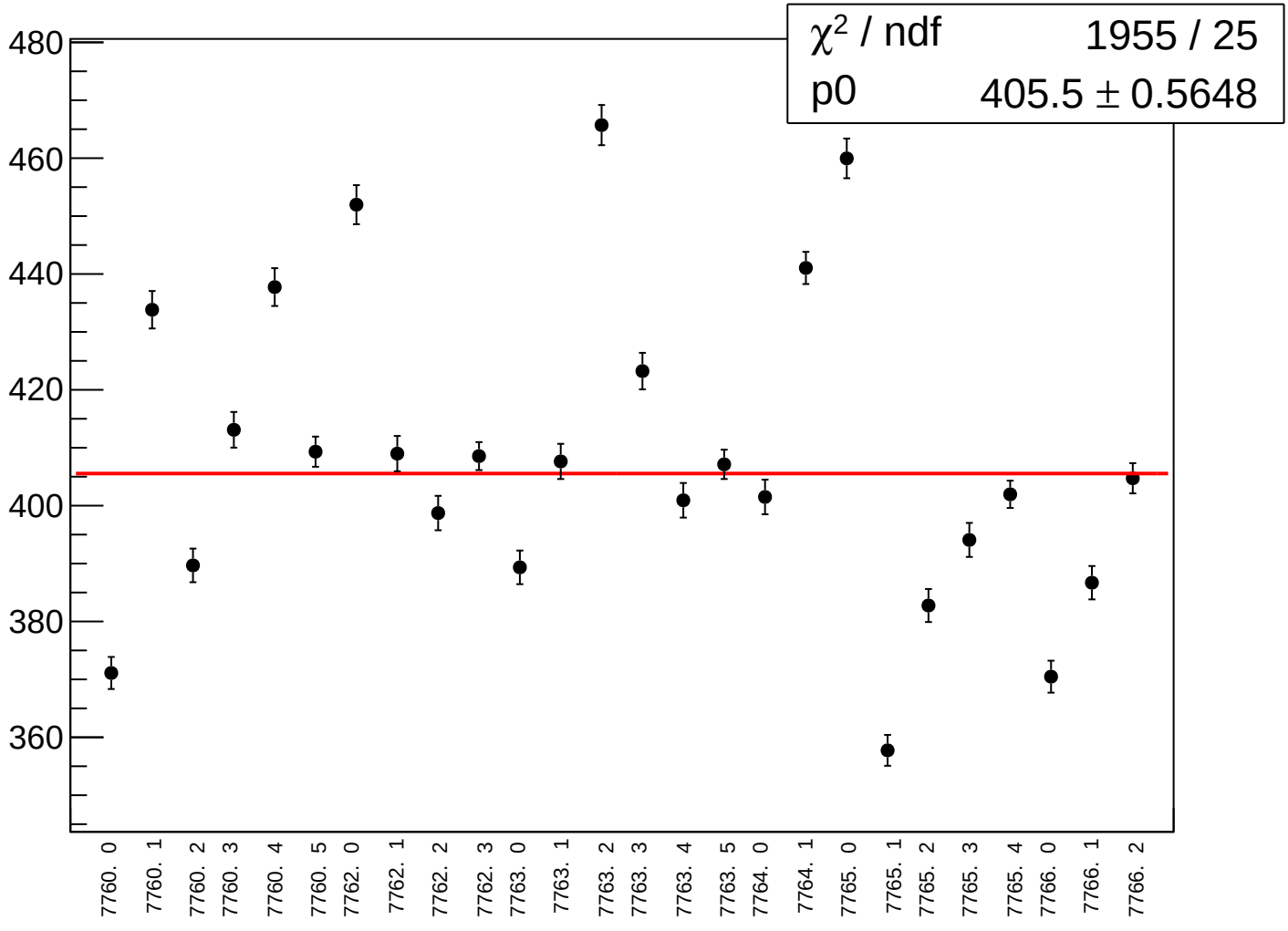

diff_bpm0l01Y_mean vs run
χ² / ndf 41.98 / 25
p0 8.164 ± 3.854
100
80
60
40
20
0
−20
−40
−60
−80
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −156.8
Std Dev 169.3
3
2
1
0
−1
−2
−3

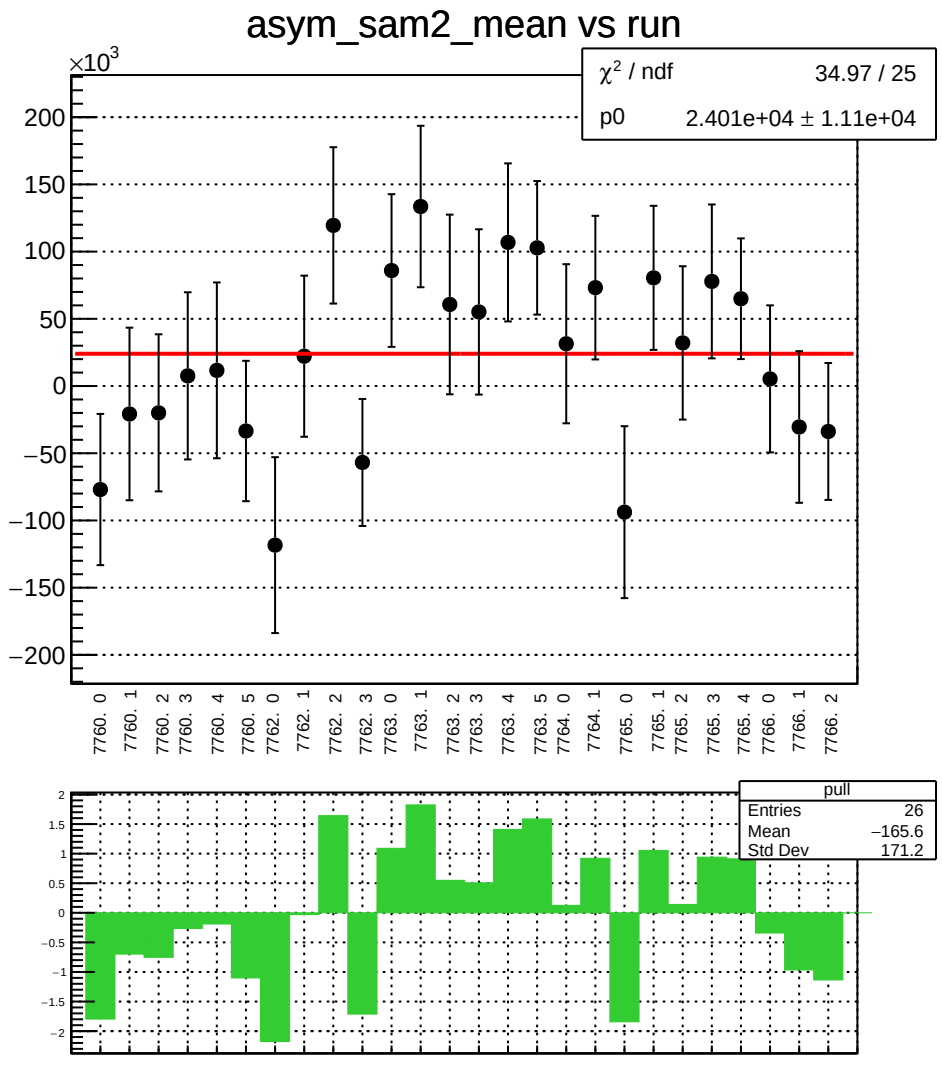

pull1D
Entries 26
Mean 0.02103
Std Dev 1.27
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

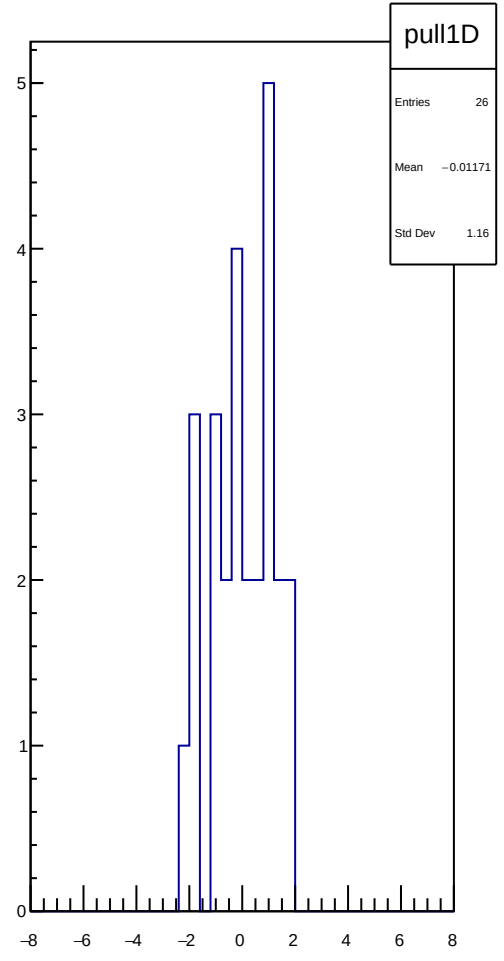

diff_bpm0l01Y_rms vs run
χ² / ndf 283.4 / 25
p0 1960 ± 2.725
2100
2050
2000
1950
1900
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

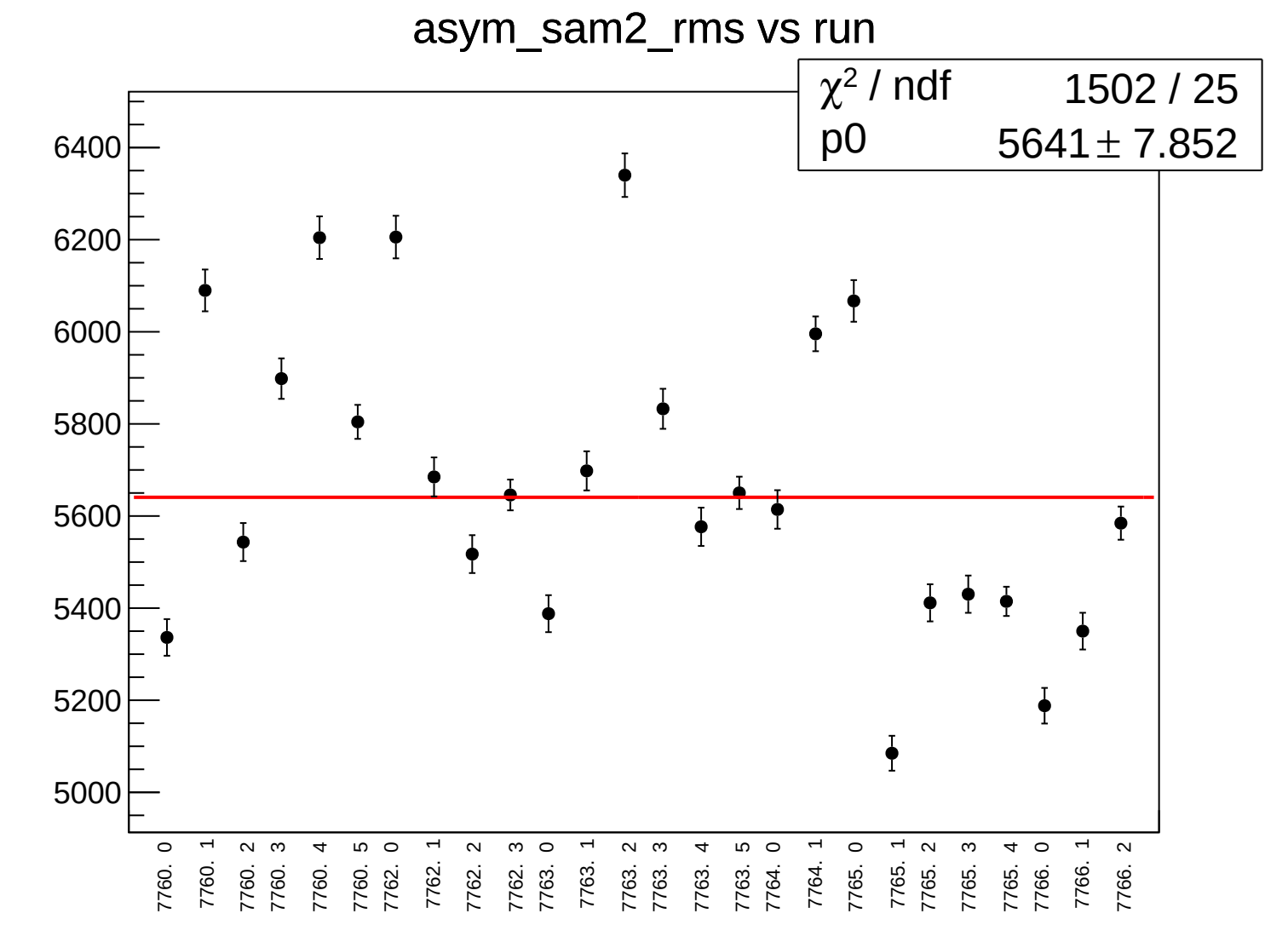

asym_sam1_mean vs run
χ² / ndf 30.03 / 25
p0 1337 ± 798.8
15000
10000
5000
0
−5000
−10000
−15000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −27.87
Std Dev 7.496
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

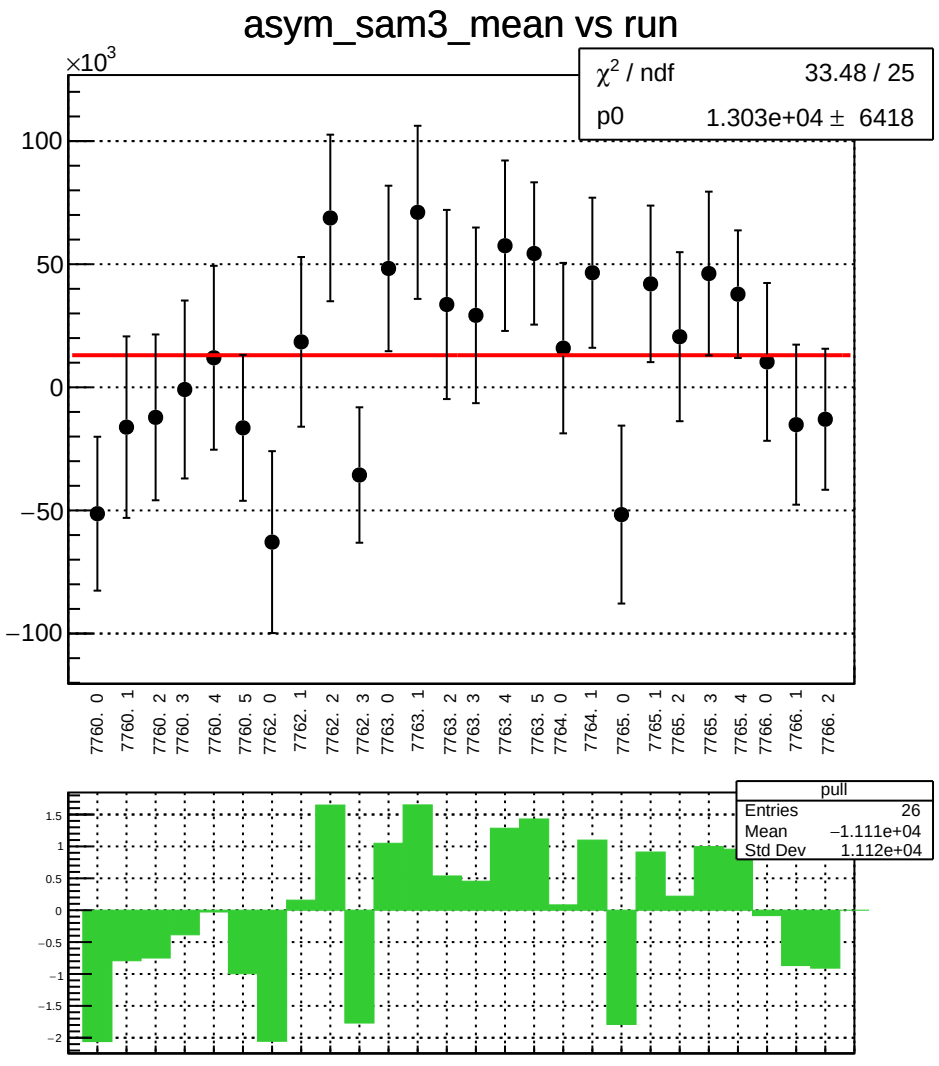

pull1D
Entries 26
Mean −0.01812
Std Dev 1.074
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

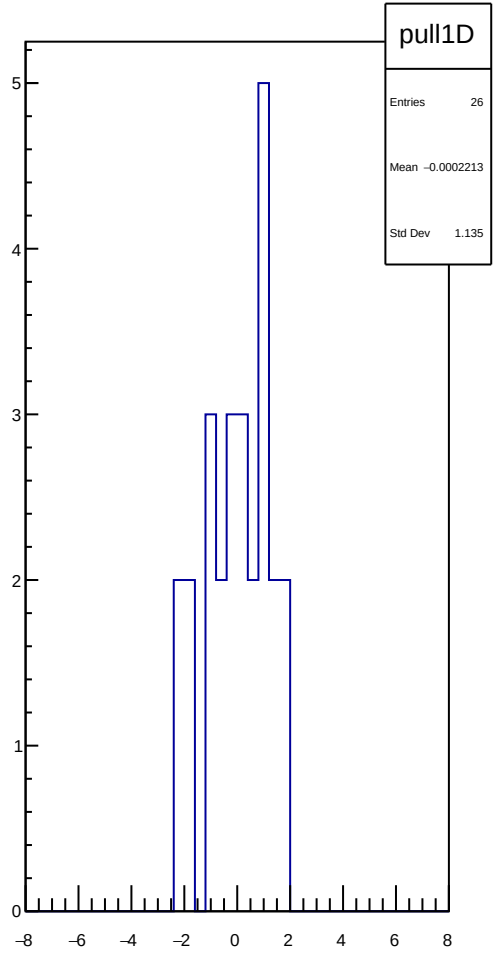

asym_sam1_rms vs run
χ² / ndf 1955 / 25
p0 405.5 ± 0.5648
480
460
440
420
400
380
360
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

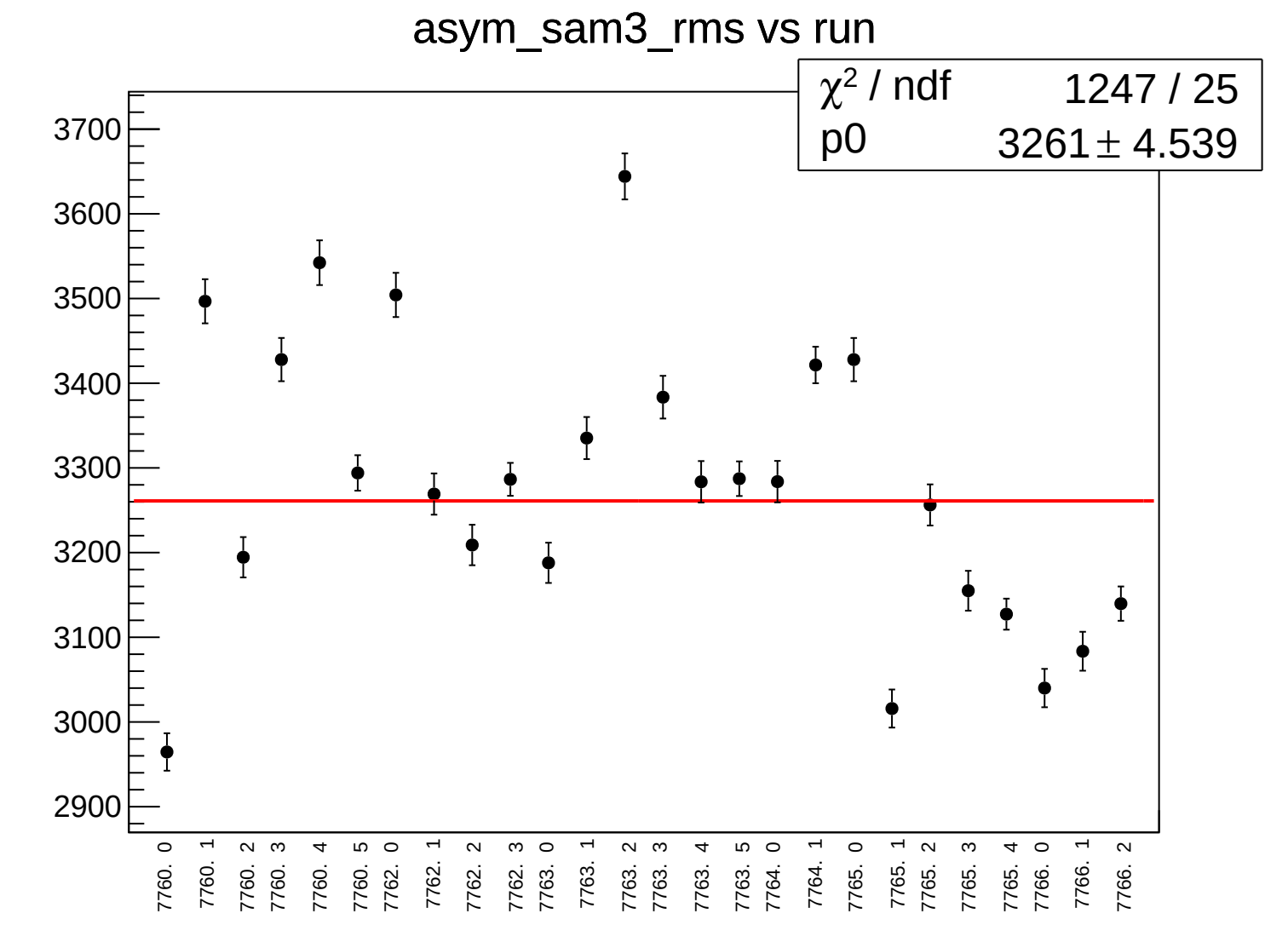

asym_sam2_mean vs run
×10^3
χ² / ndf 34.97 / 25
p0 2.401e+04 ± 1.11e+04
200
150
100
50
0
−50
−100
−150
−200
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −165.6
Std Dev 171.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

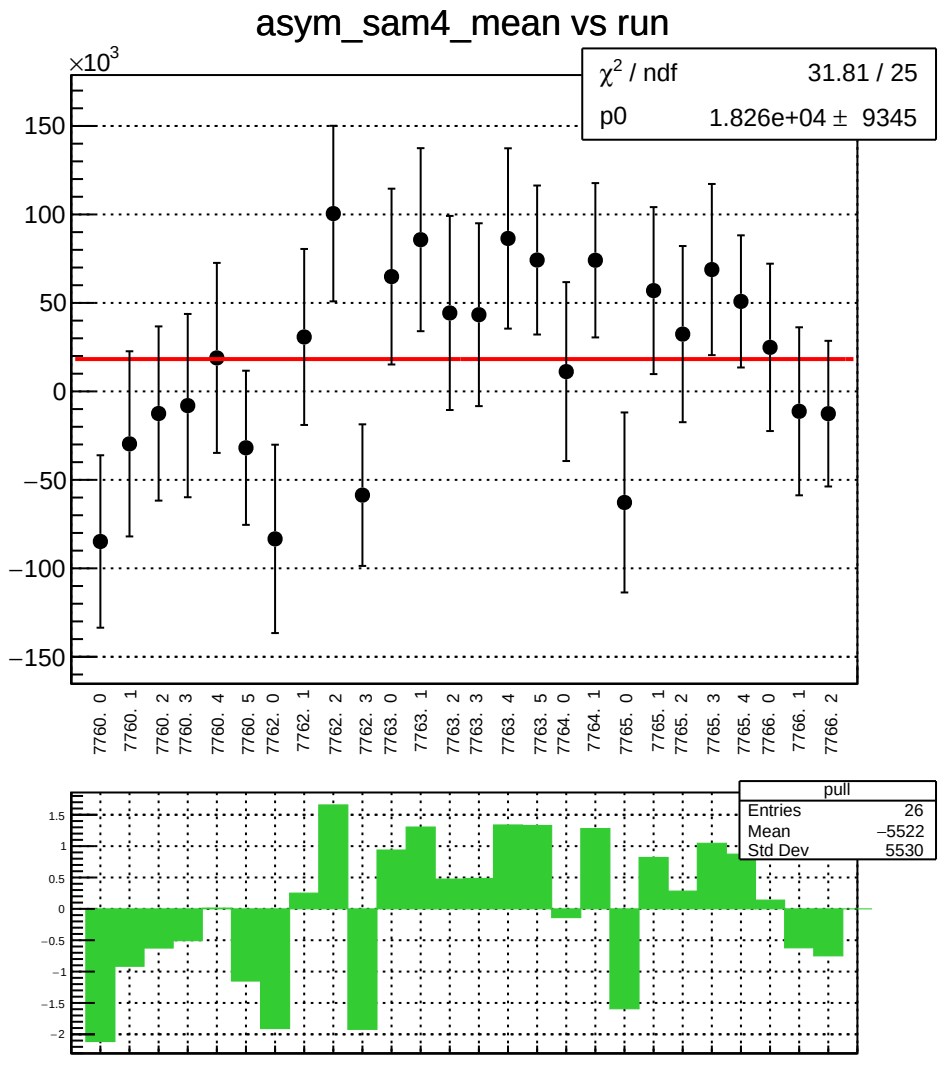

pull1D
Entries 26
Mean −0.01171
Std Dev 1.16
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

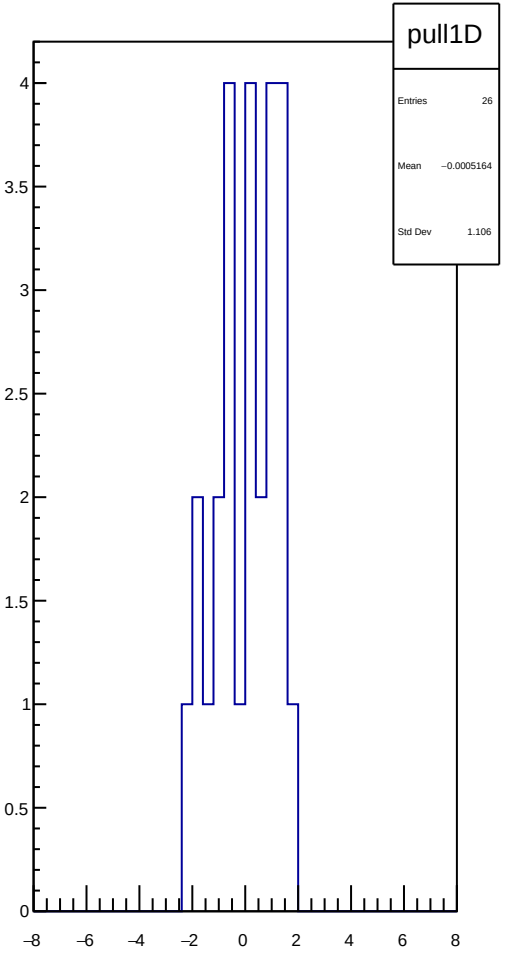

asym_sam2_rms vs run
χ² / ndf 1502 / 25
p0 5641 ± 7.852
6400
6200
6000
5800
5600
5400
5200
5000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

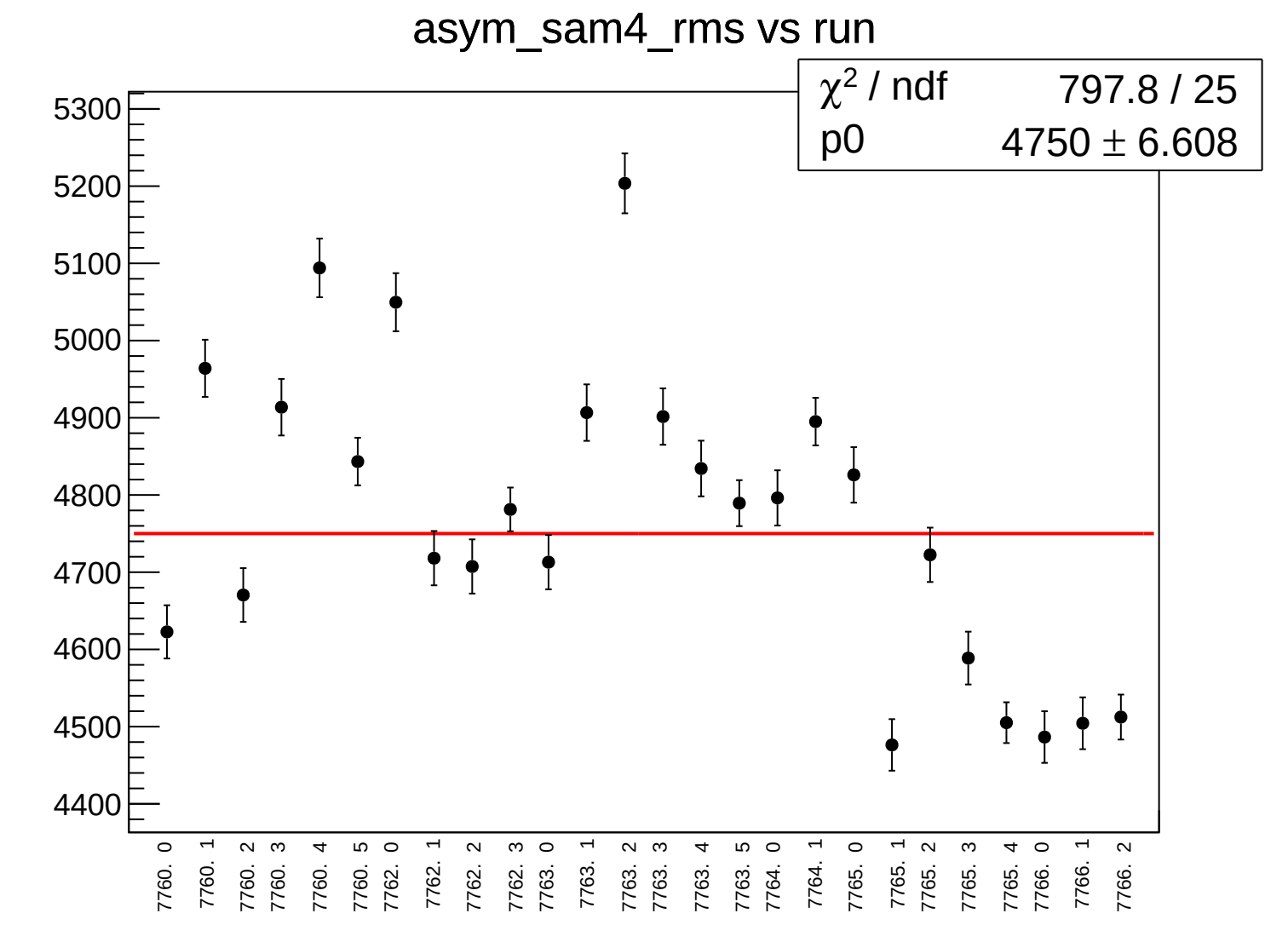

asym_sam3_mean vs run
×10^3
χ² / ndf 33.48 / 25
p0 1.303e+04 ± 6418
100
50
0
−50
−100
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −1.111e+04
Std Dev 1.112e+04
1.5
1
0.5
0
−0.5
−1
−1.5
−2

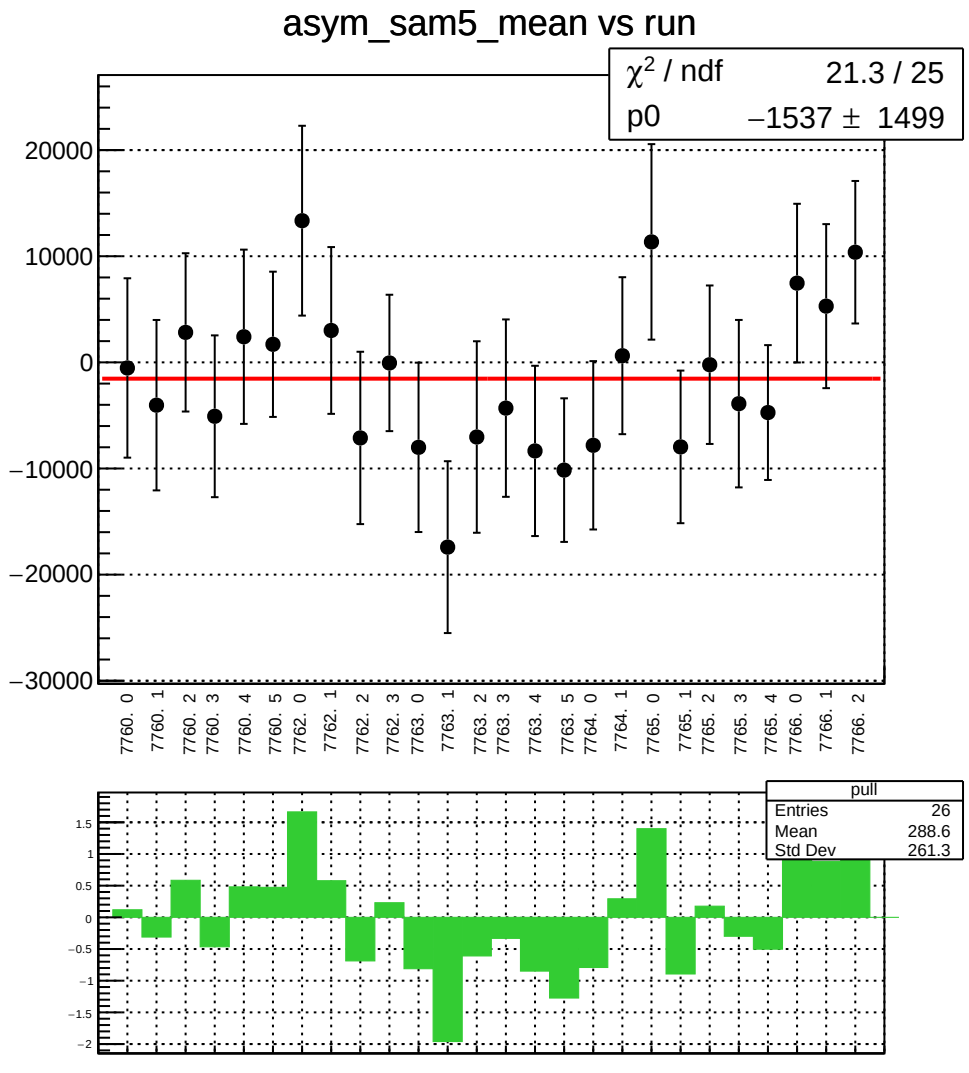

pull1D
Entries 26
Mean −0.0002213
Std Dev 1.135
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

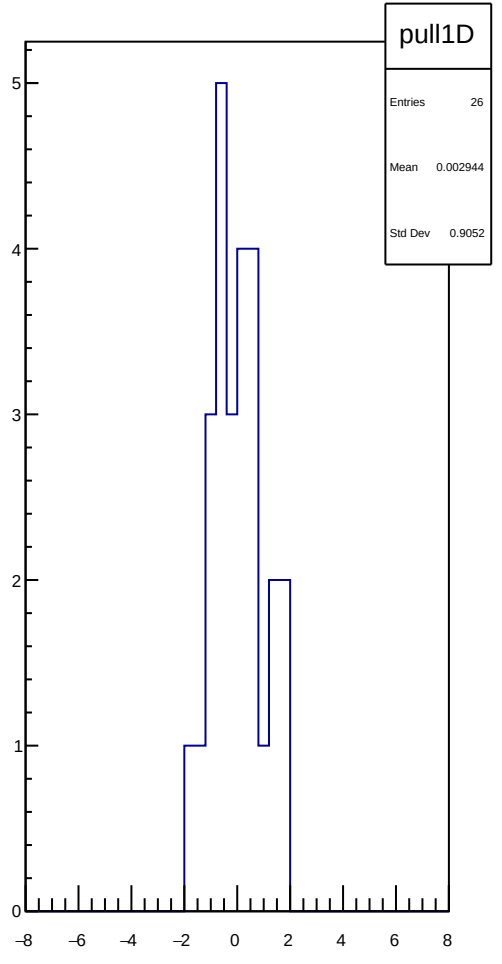

asym_sam3_rms vs run
χ² / ndf 1247 / 25
p0 3261 ± 4.539
3700
3600
3500
3400
3300
3200
3100
3000
2900
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

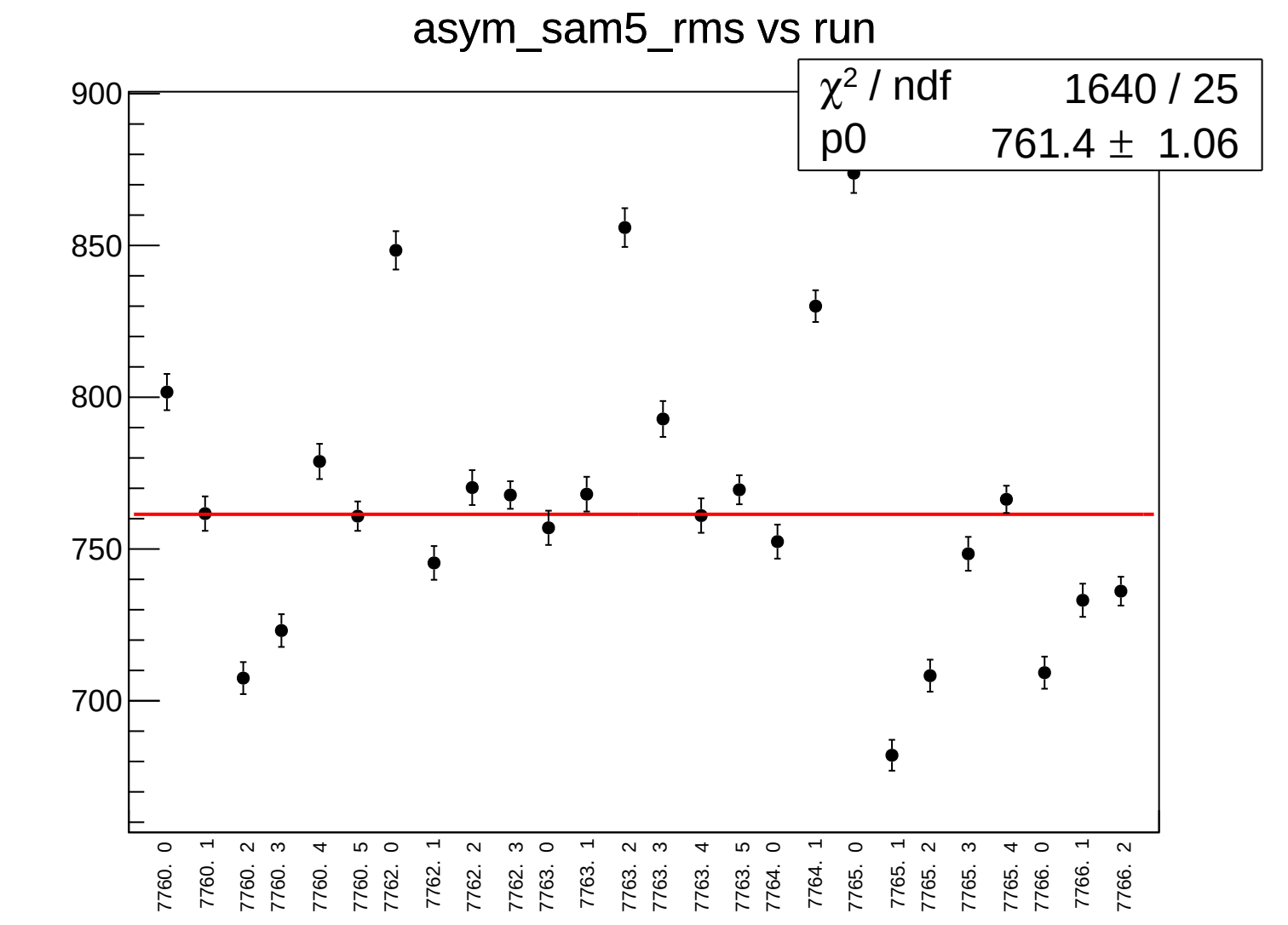

asym_sam4_mean vs run
×10^3
χ² / ndf 31.81 / 25
p0 1.826e+04 ± 9345
150
100
50
0
−50
−100
−150
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −5522
Std Dev 5530
1.5
1
0.5
0
−0.5
−1
−1.5
−2

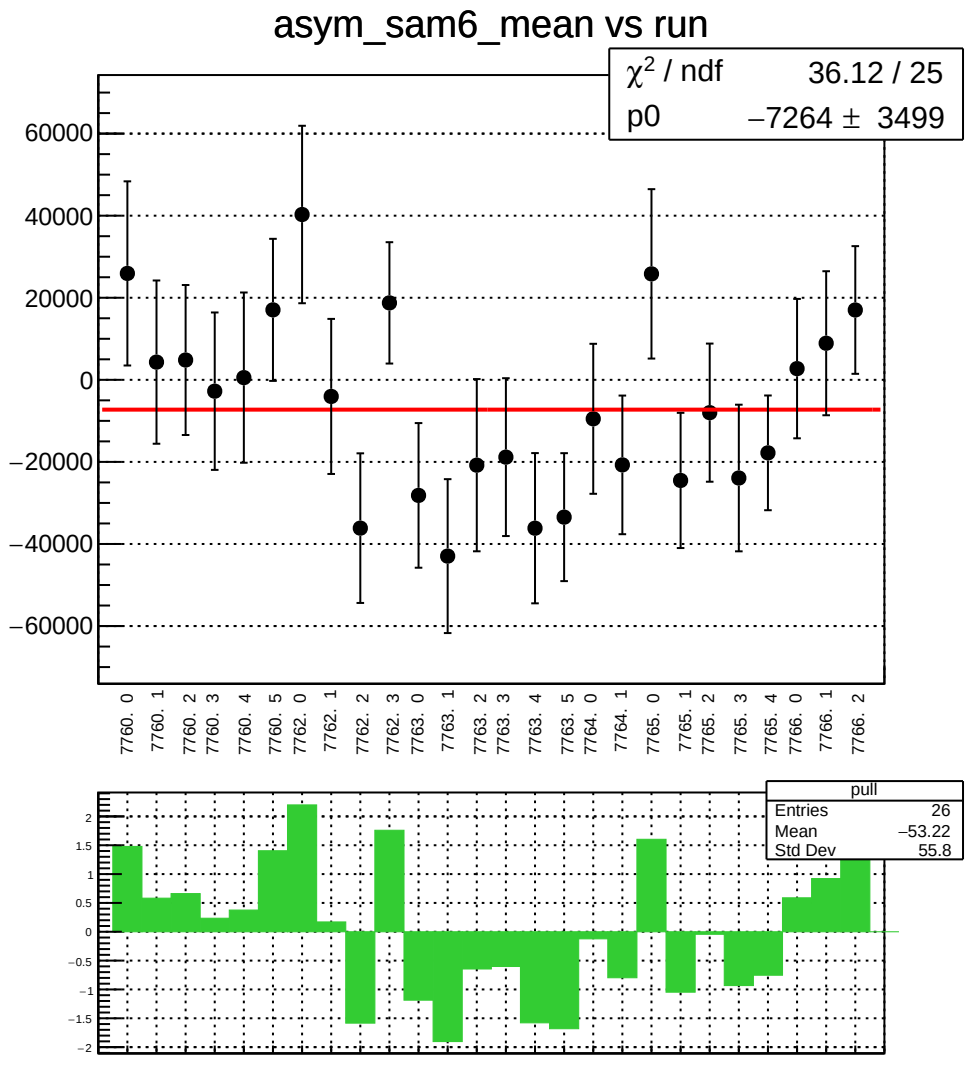

pull1D
Entries 26
Mean −0.0005164
Std Dev 1.106
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

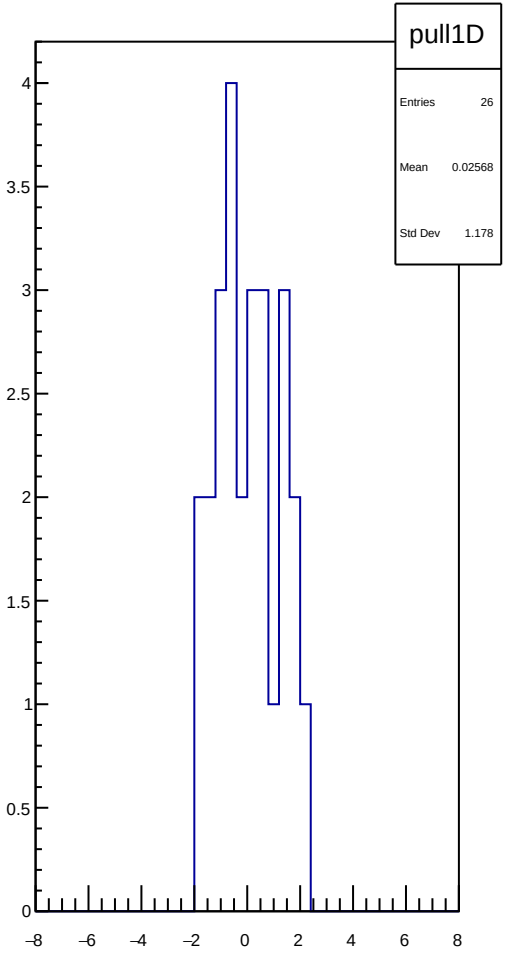

asym_sam4_rms vs run
χ² / ndf 797.8 / 25
p0 4750 ± 6.608
5300
5200
5100
5000
4900
4800
4700
4600
4500
4400
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

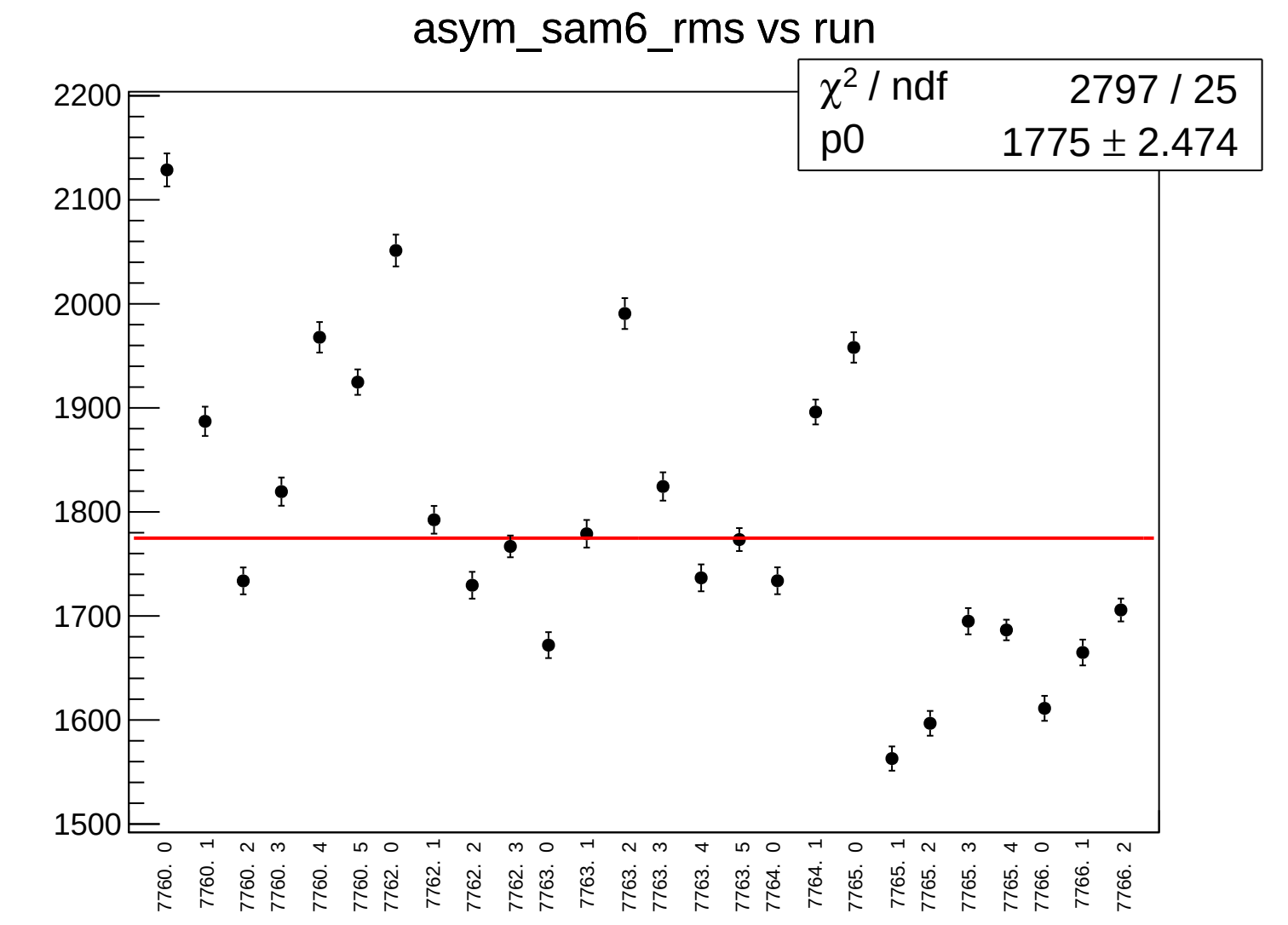

asym_sam5_mean vs run
χ² / ndf 21.3 / 25
p0 −1537 ± 1499
20000
10000
0
−10000
−20000
−30000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 288.6
Std Dev 261.3
1.5
1
0.5
0
−0.5
−1
−1.5
−2

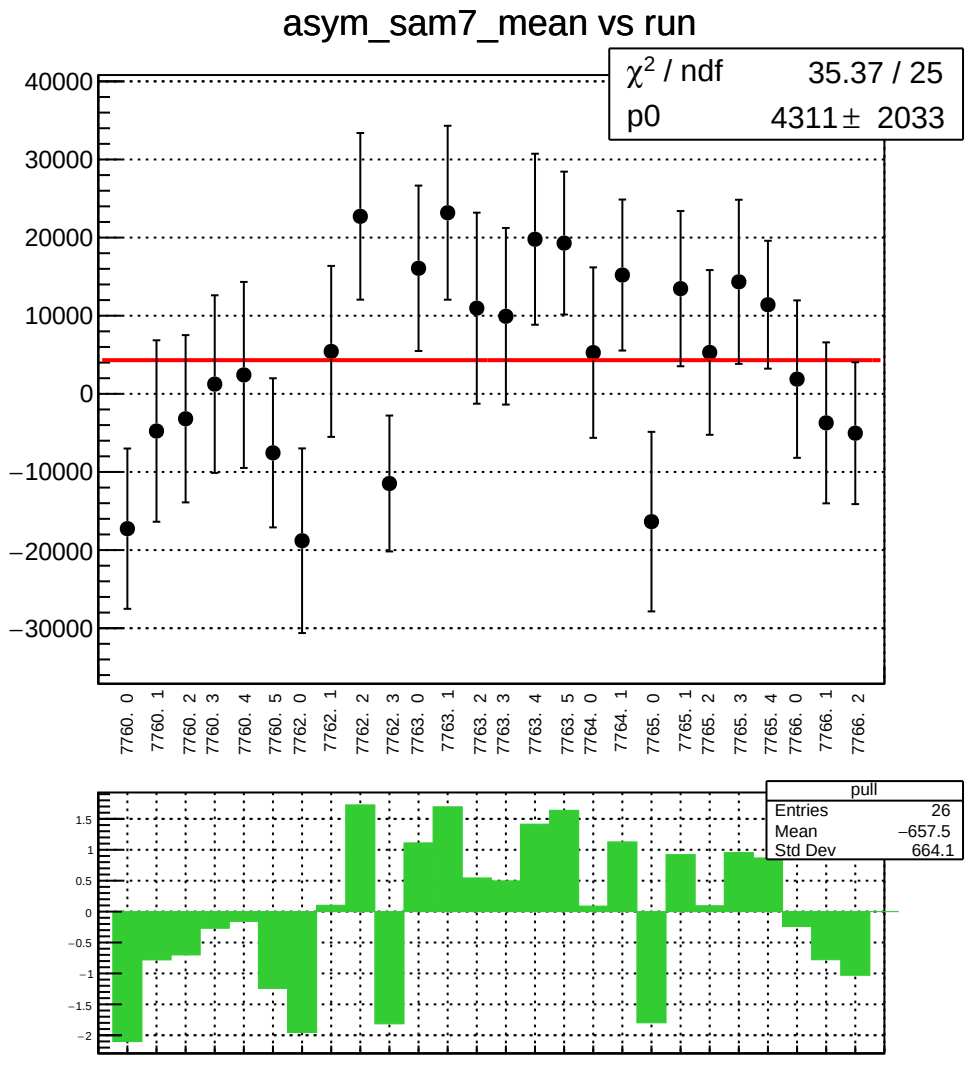

pull1D
Entries 26
Mean 0.002944
Std Dev 0.9052
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

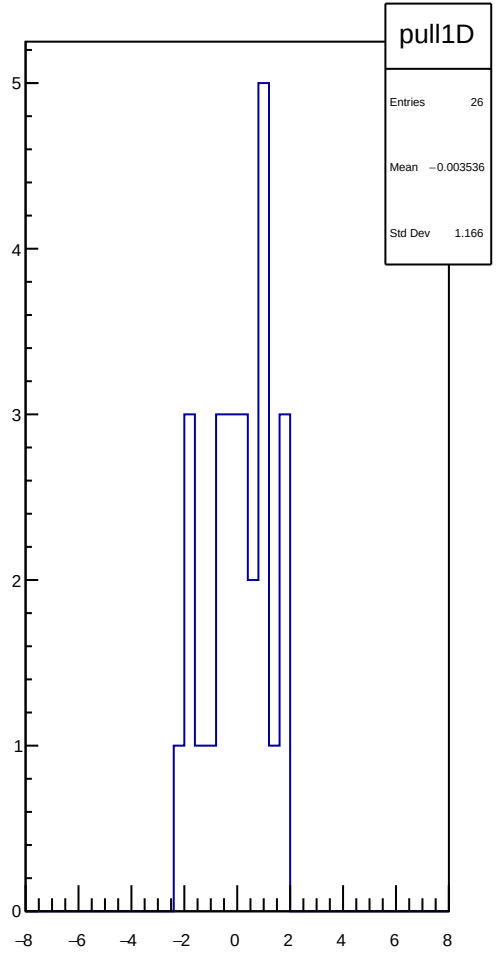

asym_sam5_rms vs run
χ² / ndf 1640 / 25
p0 761.4 ± 1.06
900
850
800
750
700
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

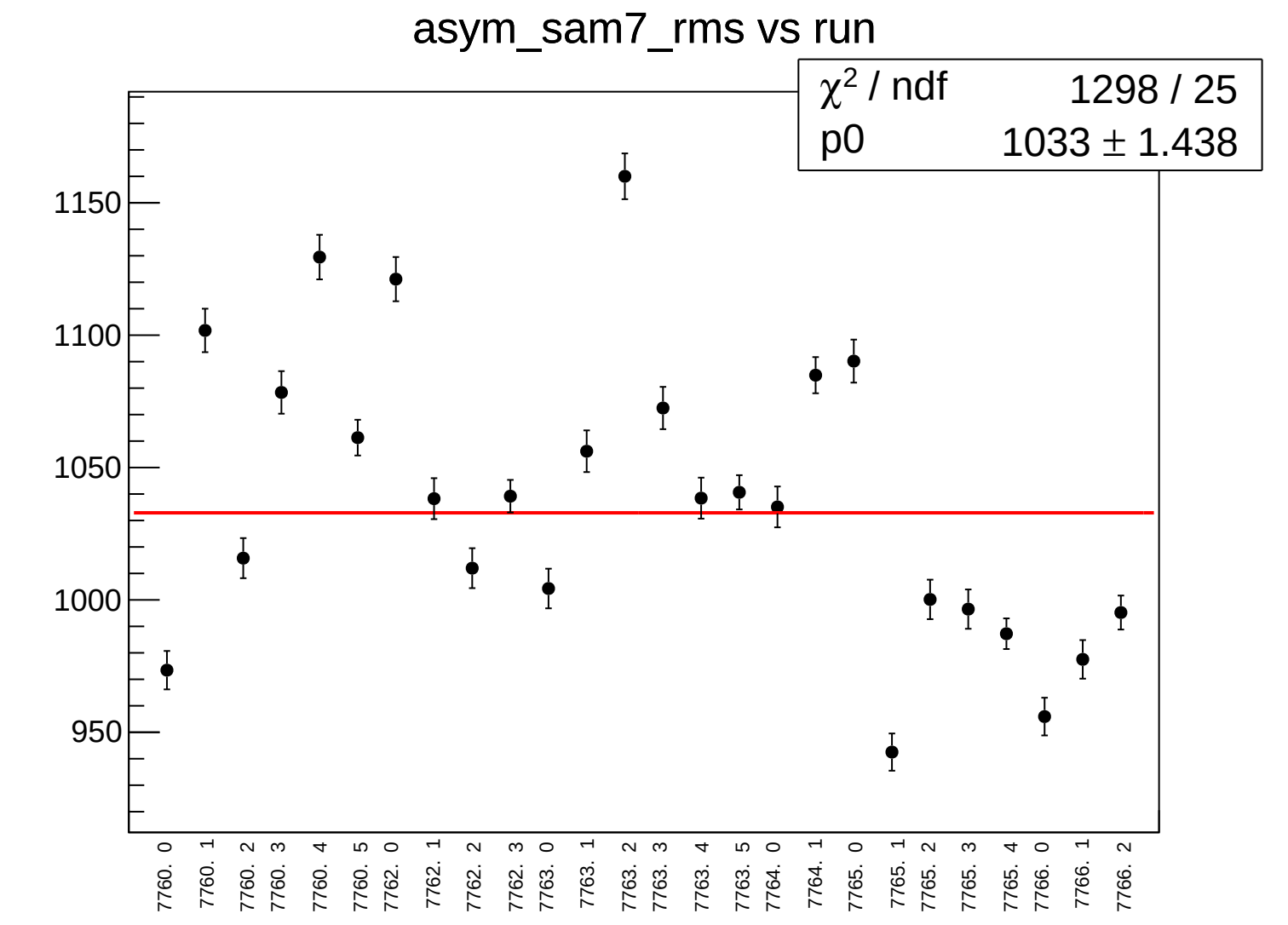

asym_sam6_mean vs run
χ² / ndf 36.12 / 25
p0 −7264 ± 3499
60000
40000
20000
0
−20000
−40000
−60000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −53.22
Std Dev 55.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

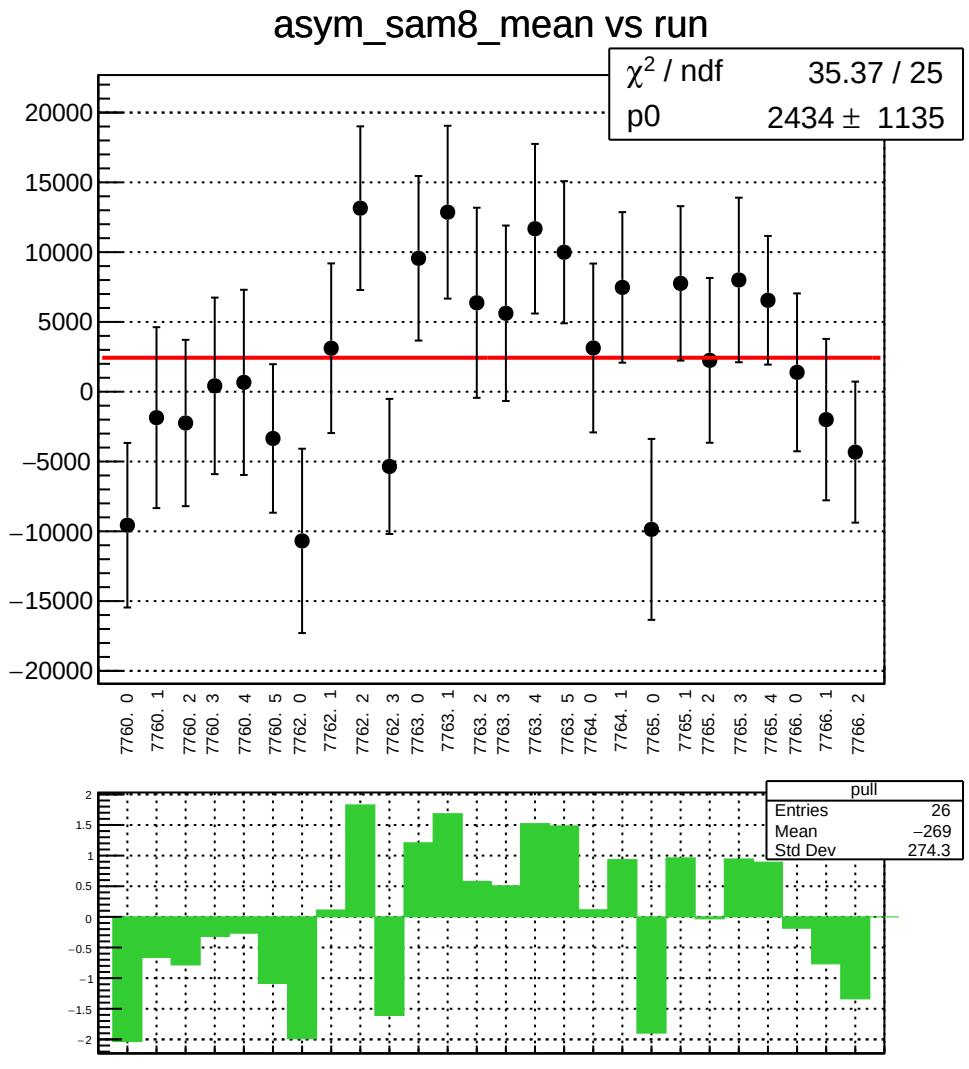

pull1D
Entries 26
Mean 0.02568
Std Dev 1.178
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

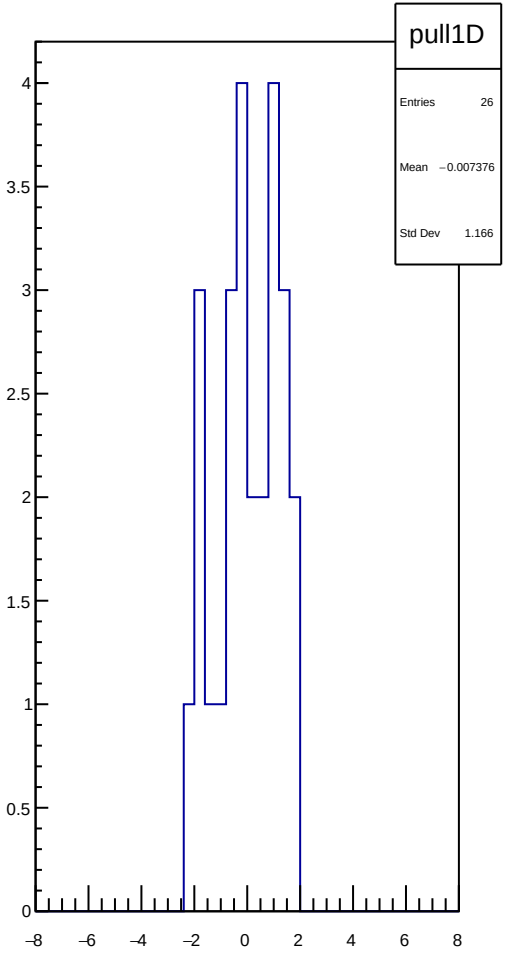

asym_sam6_rms vs run
χ² / ndf 2797 / 25
p0 1775 ± 2.474
2200
2100
2000
1900
1800
1700
1600
1500
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

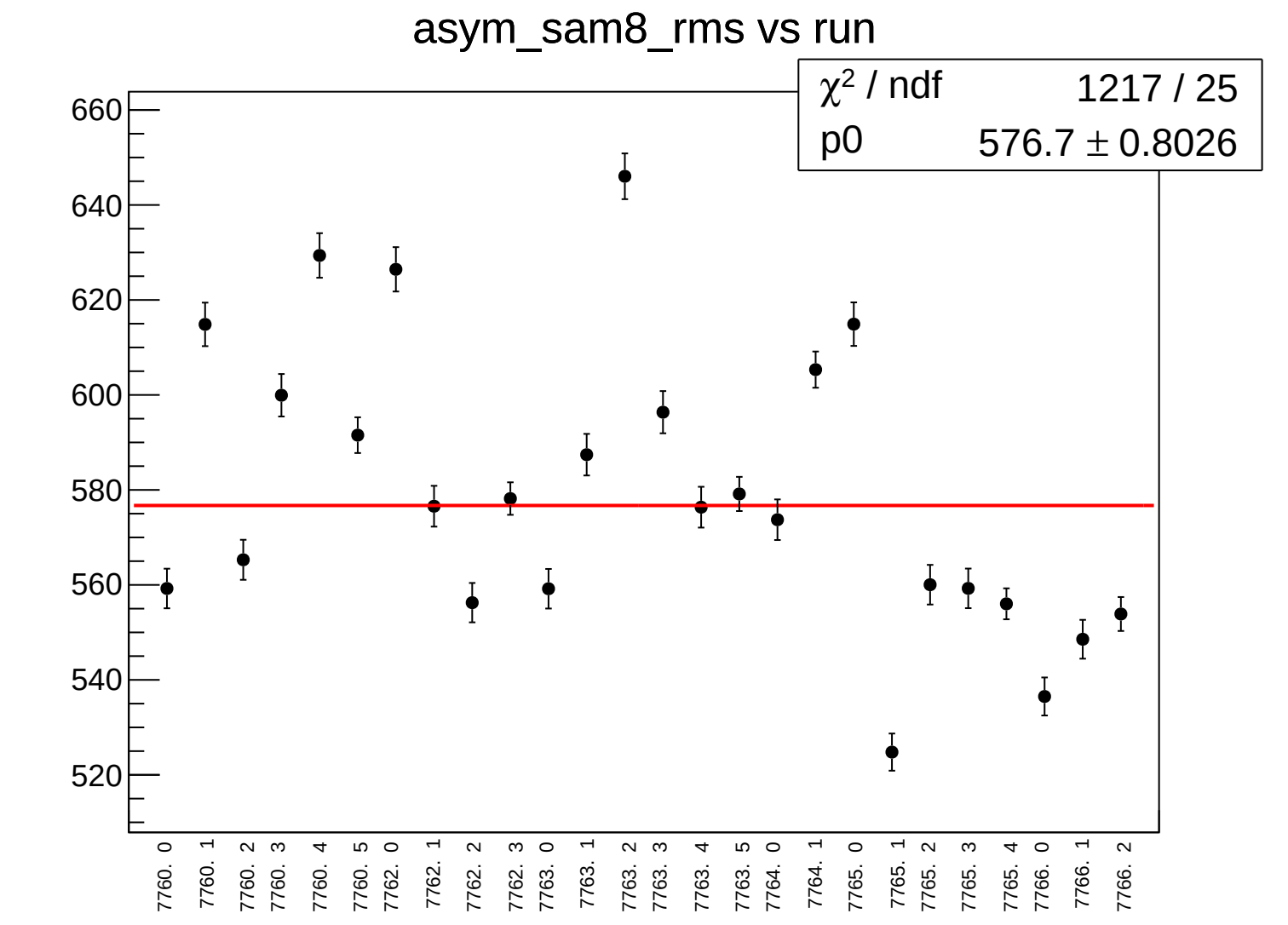

asym_sam7_mean vs run
χ² / ndf 35.37 / 25
p0 4311 ± 2033
40000
30000
20000
10000
0
−10000
−20000
−30000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −657.5
Std Dev 664.1
1.5
1
0.5
0
−0.5
−1
−1.5
−2

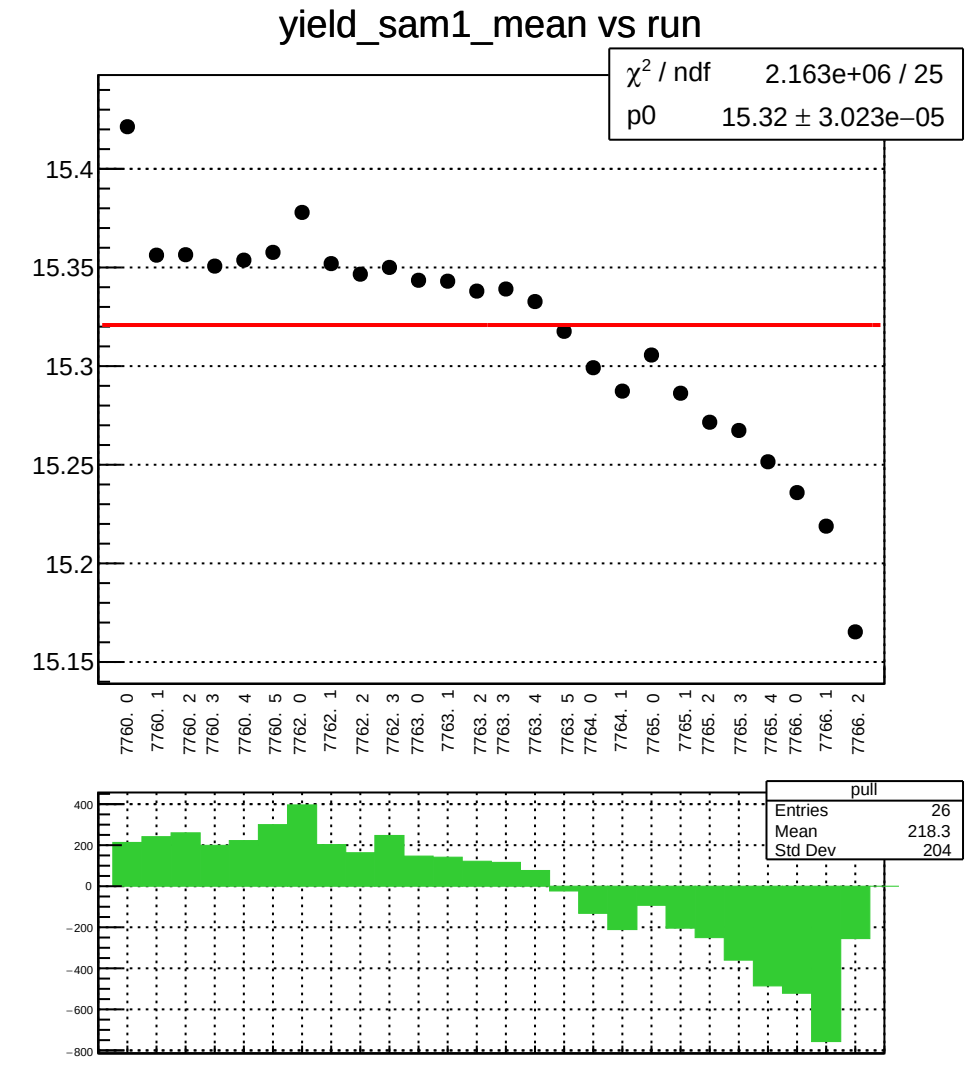

pull1D
Entries 26
Mean −0.003536
Std Dev 1.166
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

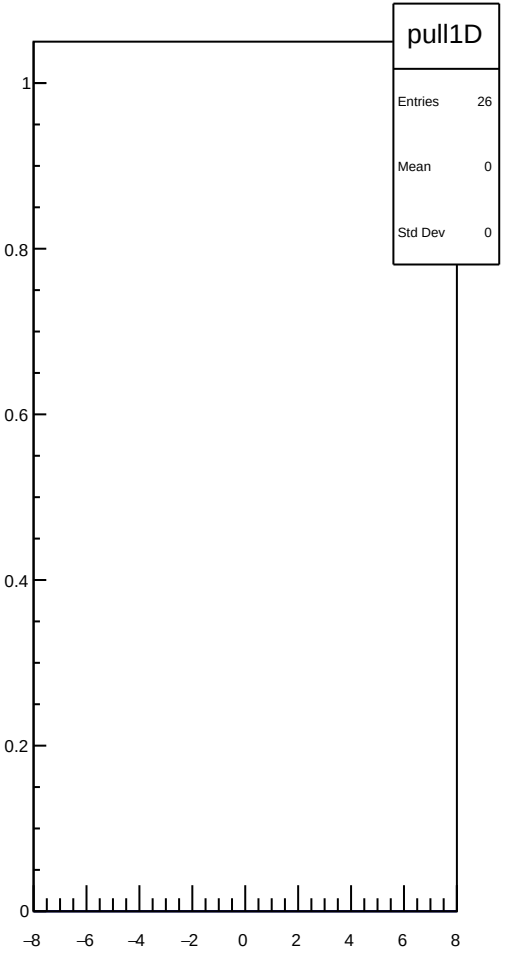

asym_sam7_rms vs run
χ² / ndf 1298 / 25
p0 1033 ± 1.438
1150
1100
1050
1000
950
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

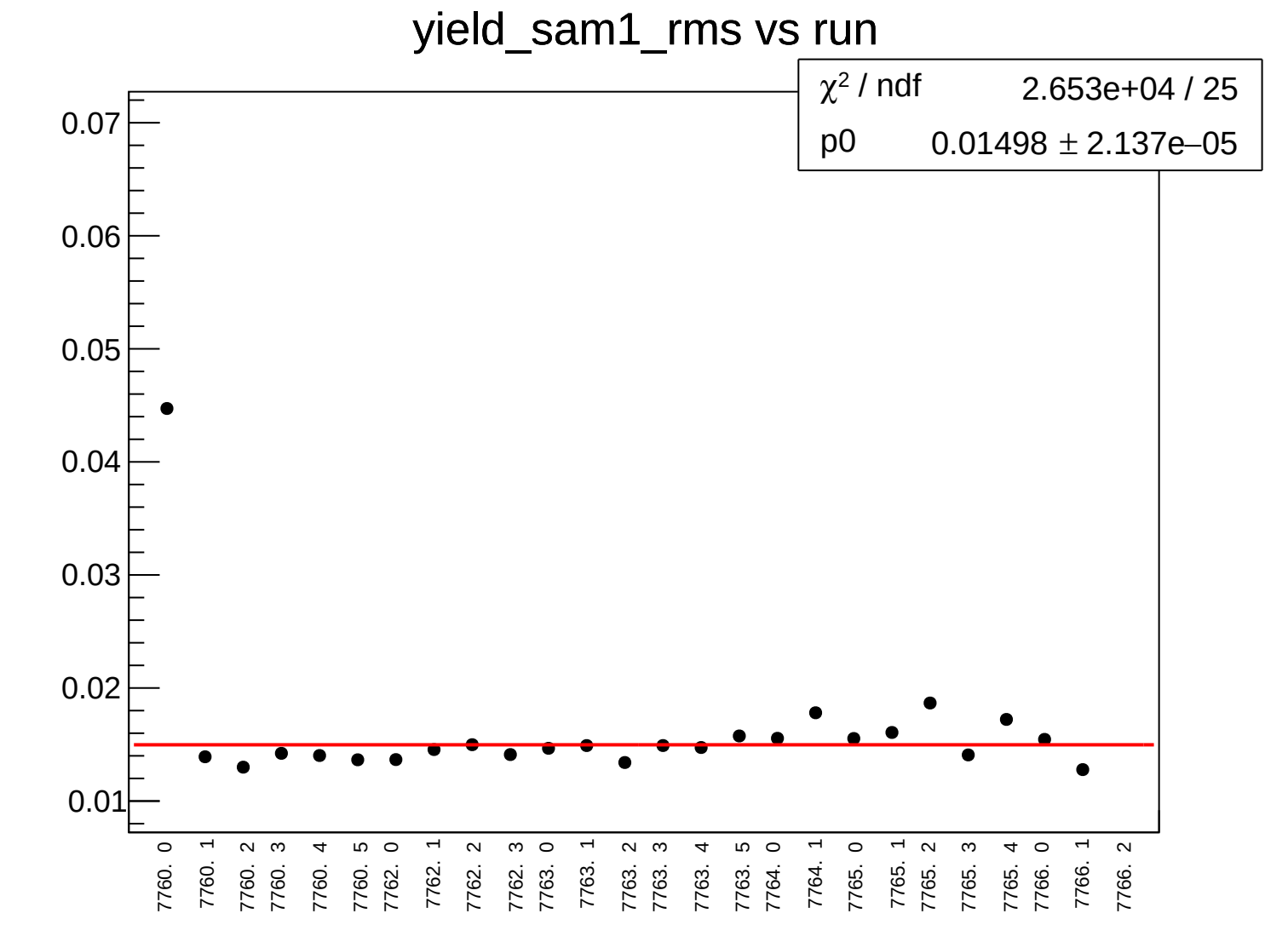

asym_sam8_mean vs run
χ² / ndf 35.37 / 25
p0 2434 ± 1135
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −269
Std Dev 274.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

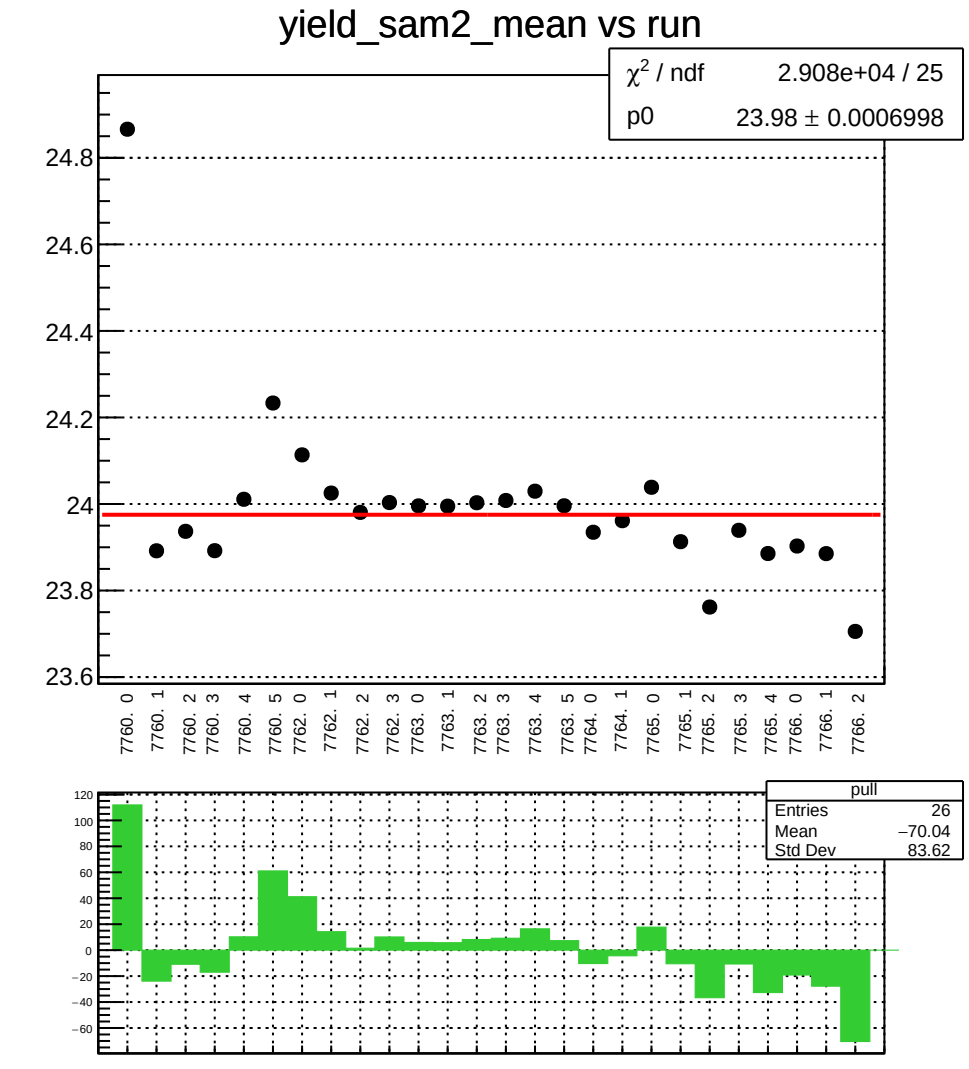

pull1D
Entries 26
Mean −0.007376
Std Dev 1.166
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

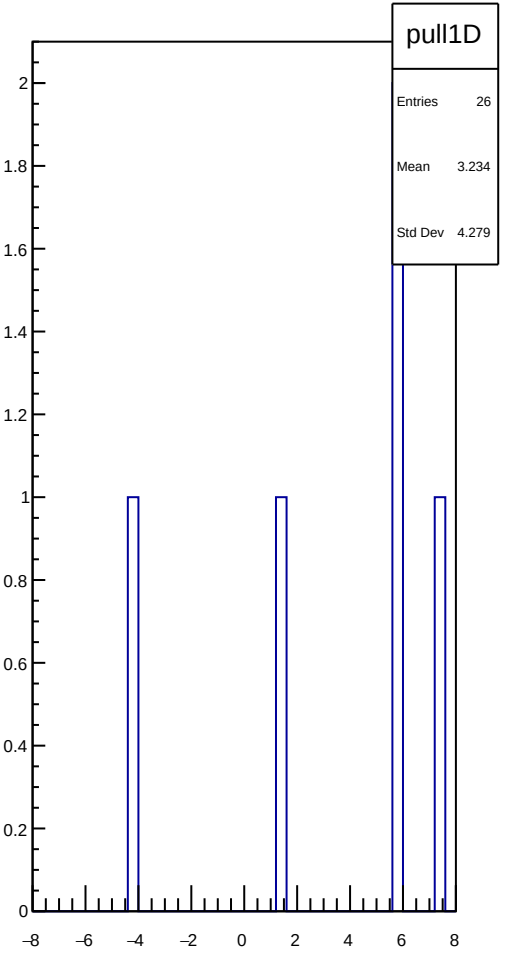

asym_sam8_rms vs run
χ² / ndf 1217 / 25
p0 576.7 ± 0.8026
660
640
620
600
580
560
540
520
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

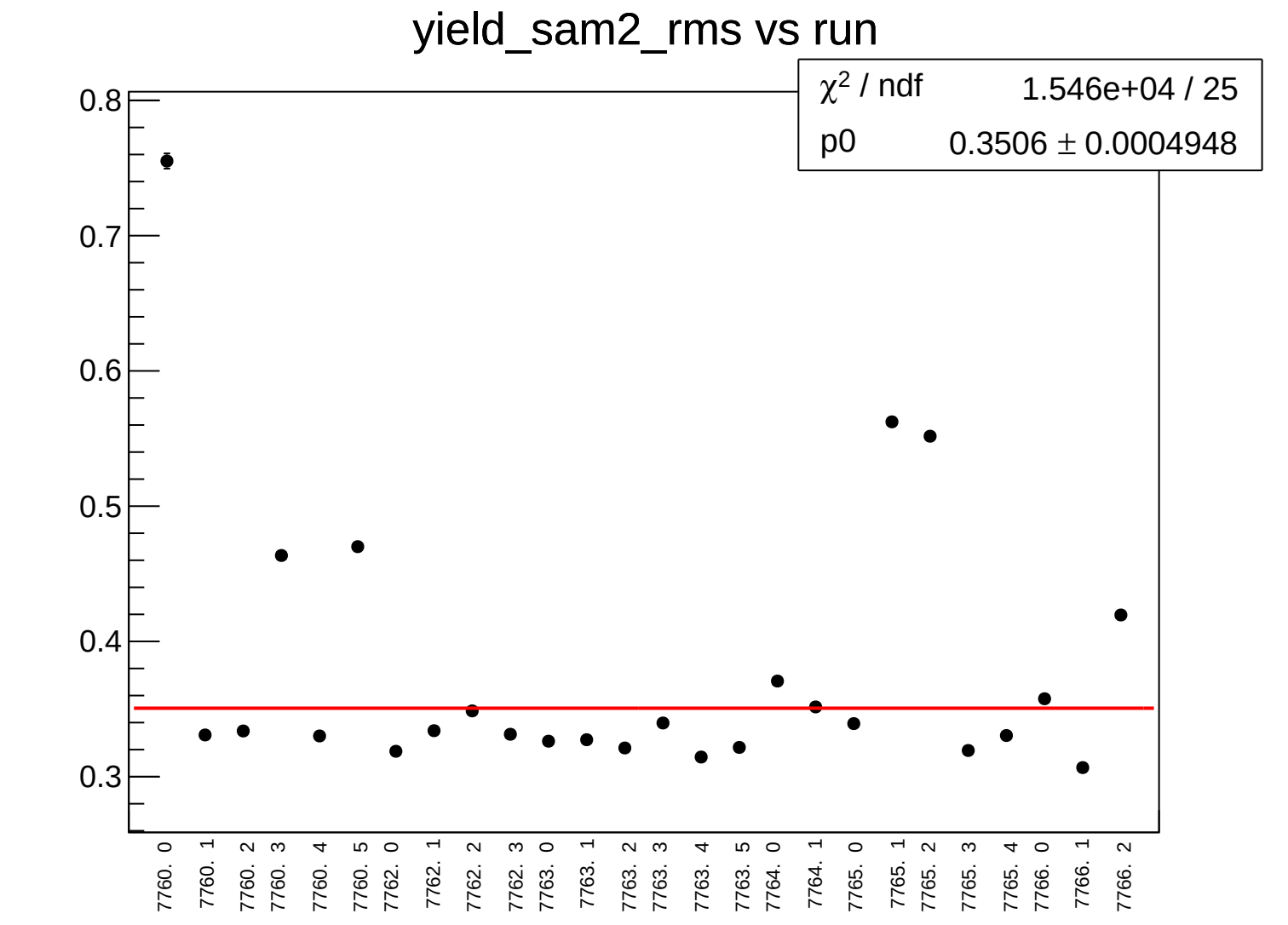

yield_sam1_mean vs run
χ² / ndf 2.163e+06 / 25
p0 15.32 ± 3.023e−05
15.4
15.35
15.3
15.25
15.2
15.15
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 218.3
Std Dev 204
400
200
0
−200
−400
−600
−800

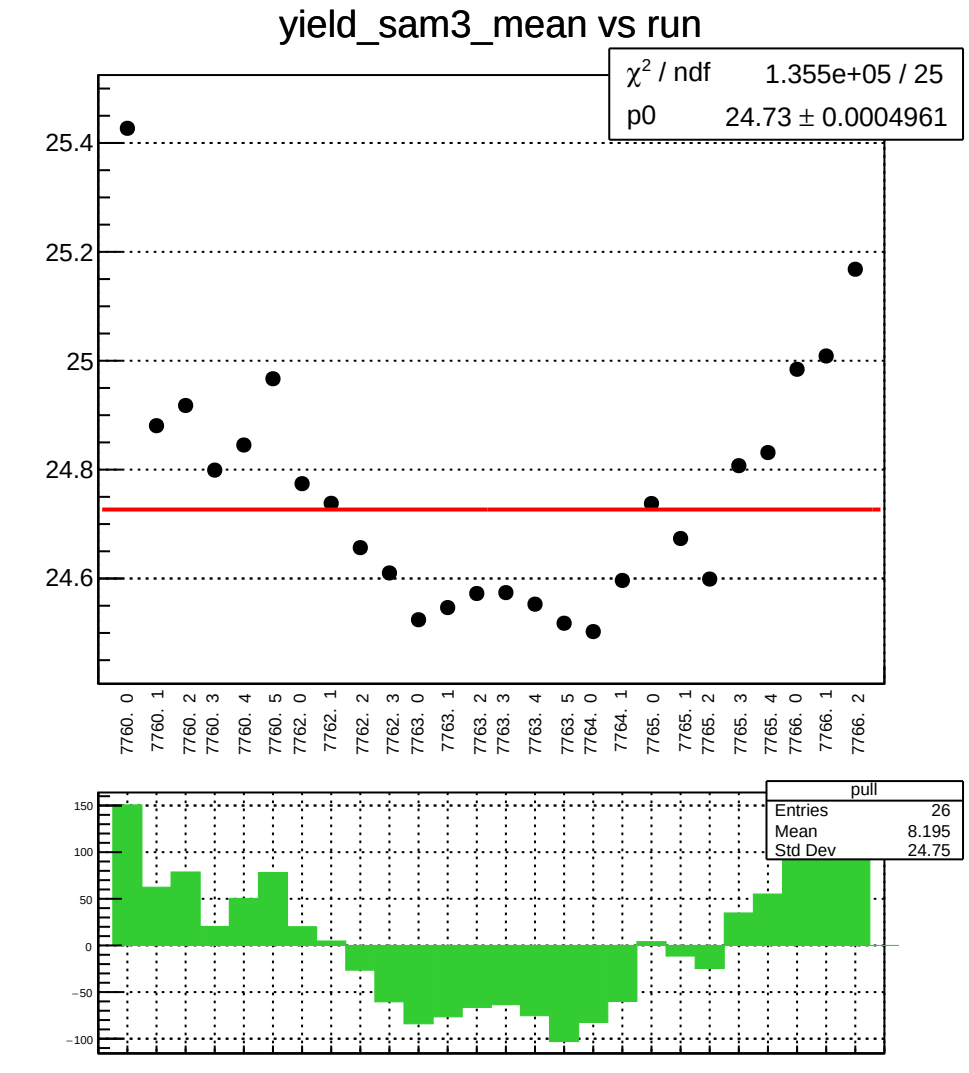

pull1D
Entries 26
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

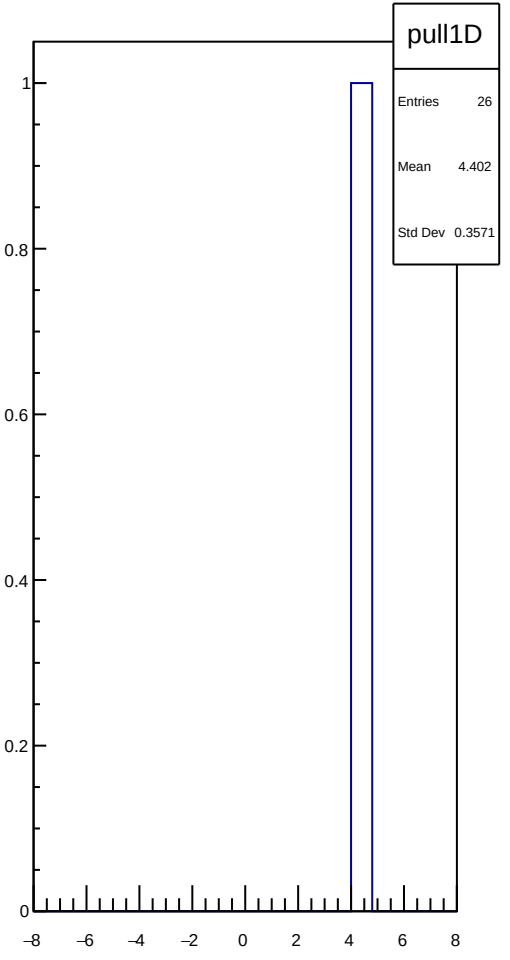

yield_sam1_rms vs run
χ² / ndf 2.653e+04 / 25
p0 0.01498 ± 2.137e–05
0.07
0.06
0.05
0.04
0.03
0.02
0.01
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

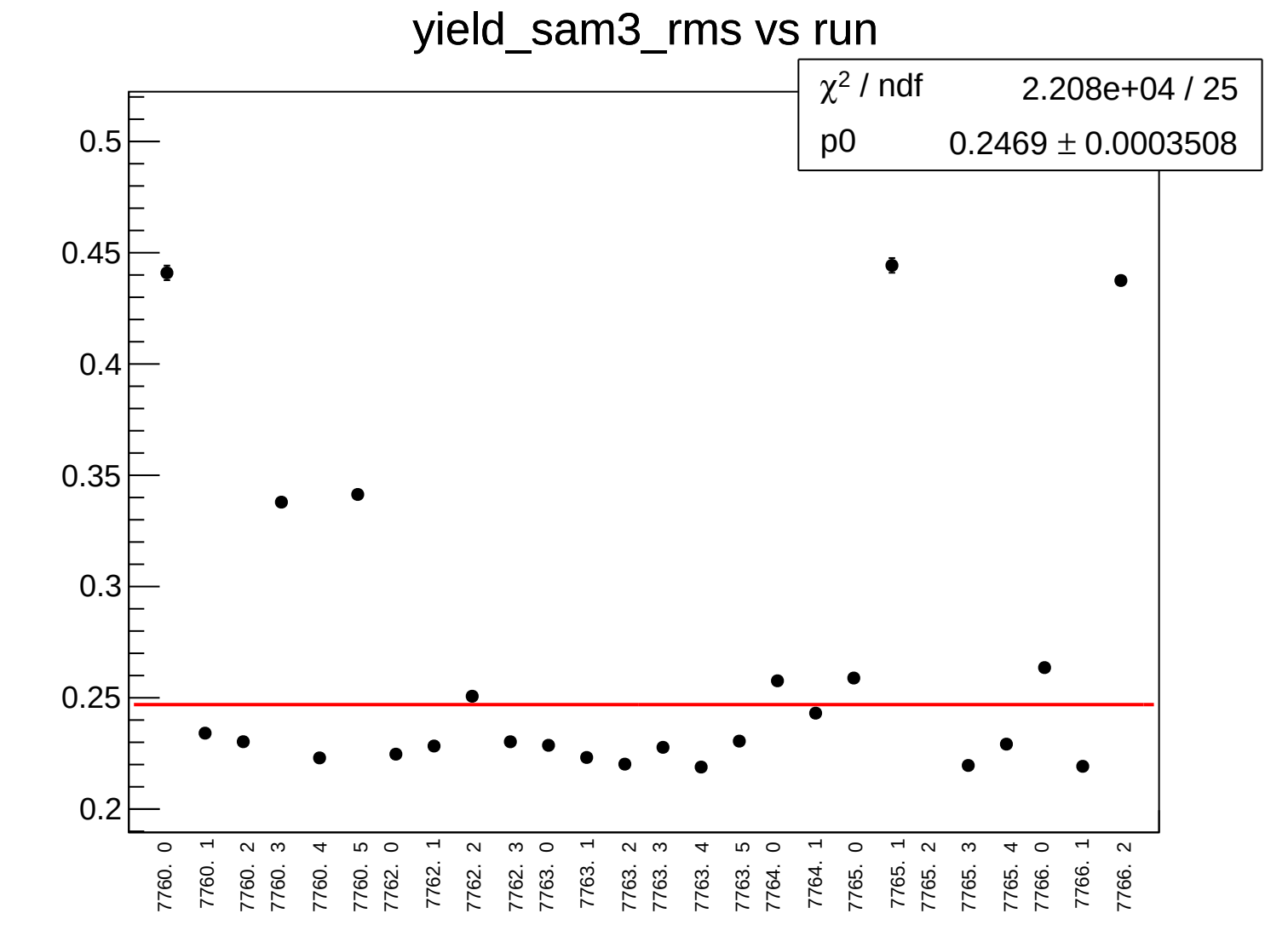

yield_sam2_mean vs run
χ² / ndf 2.908e+04 / 25
p0 23.98 ± 0.0006998
24.8
24.6
24.4
24.2
24
23.8
23.6
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −70.04
Std Dev 83.62
120
100
80
60
40
20
0
−20
−40
−60

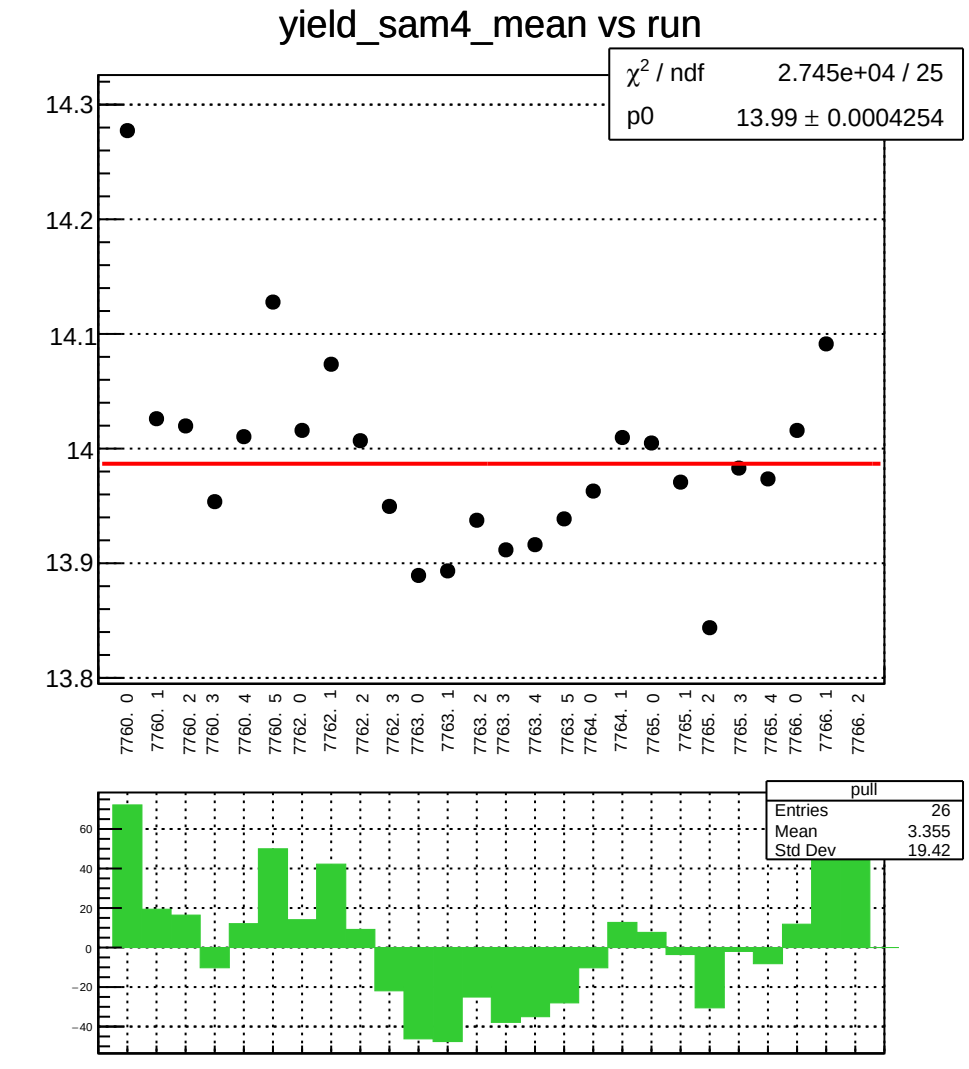

pull1D
Entries 26
Mean 3.234
Std Dev 4.279
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

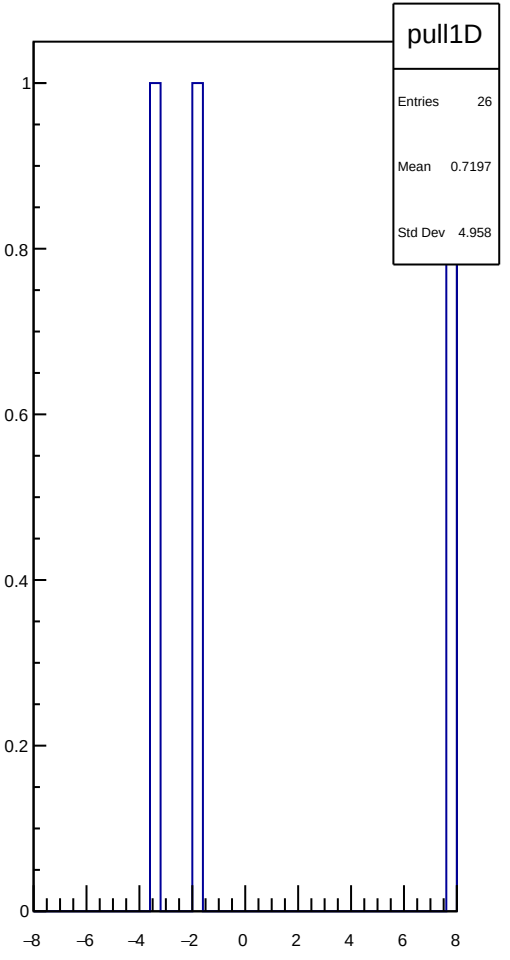

yield_sam2_rms vs run
χ² / ndf 1.546e+04 / 25
p0 0.3506 ± 0.0004948
0.8
0.7
0.6
0.5
0.4
0.3
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

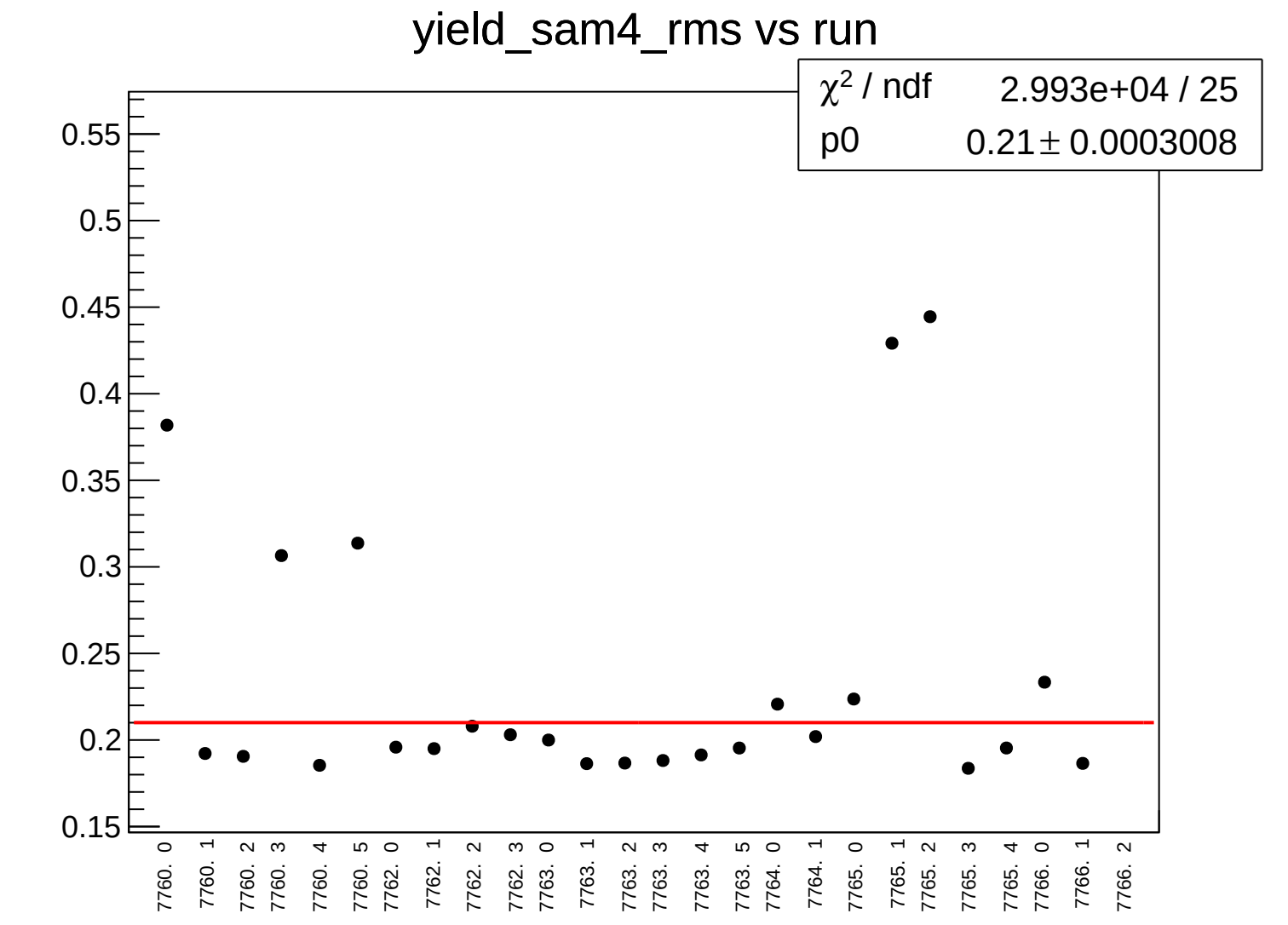

yield_sam3_mean vs run
χ² / ndf 1.355e+05 / 25
p0 24.73 ± 0.0004961
25.4
25.2
25
24.8
24.6
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 8.195
Std Dev 24.75
150
100
50
0
−50
−100

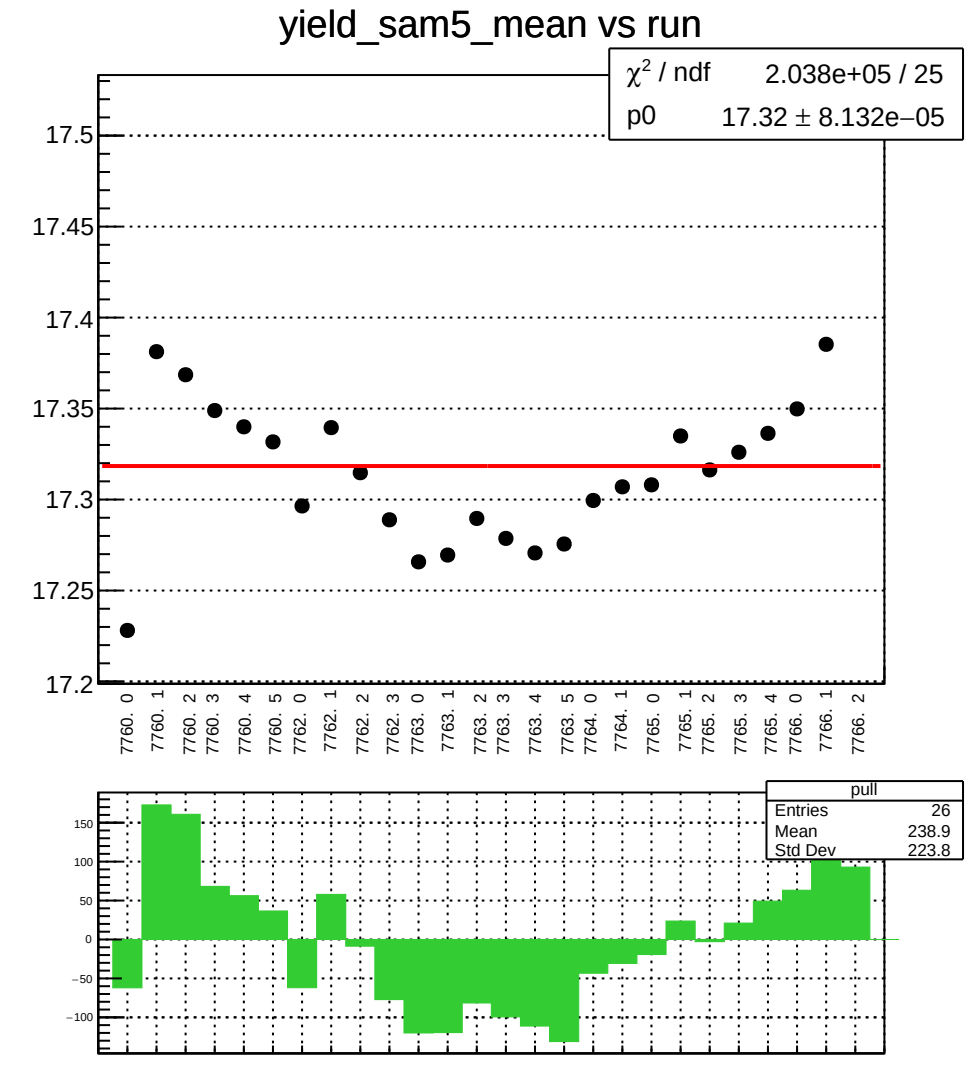

pull1D
Entries 26
Mean 4.402
Std Dev 0.3571
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

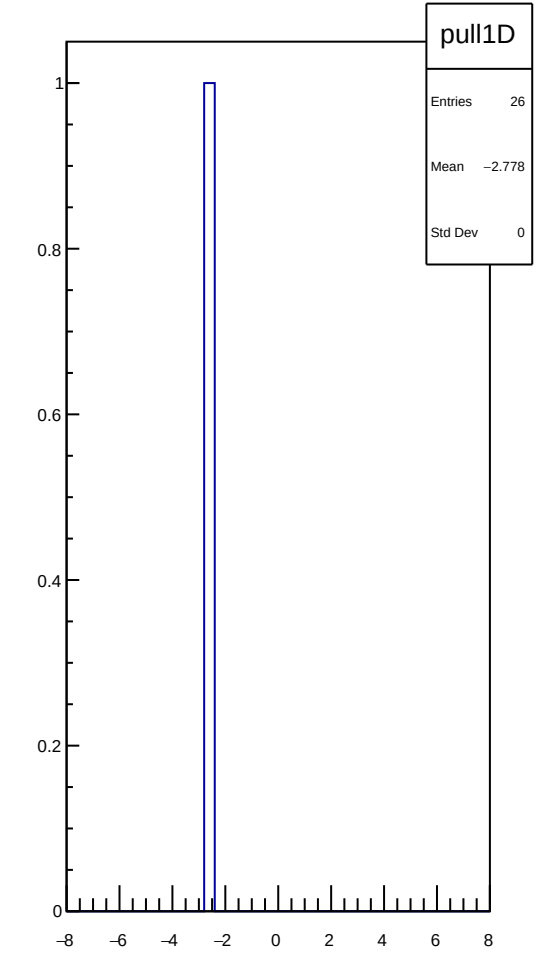

yield_sam3_rms vs run
χ² / ndf 2.208e+04 / 25
p0 0.2469 ± 0.0003508
0.5
0.45
0.4
0.35
0.3
0.25
0.2
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

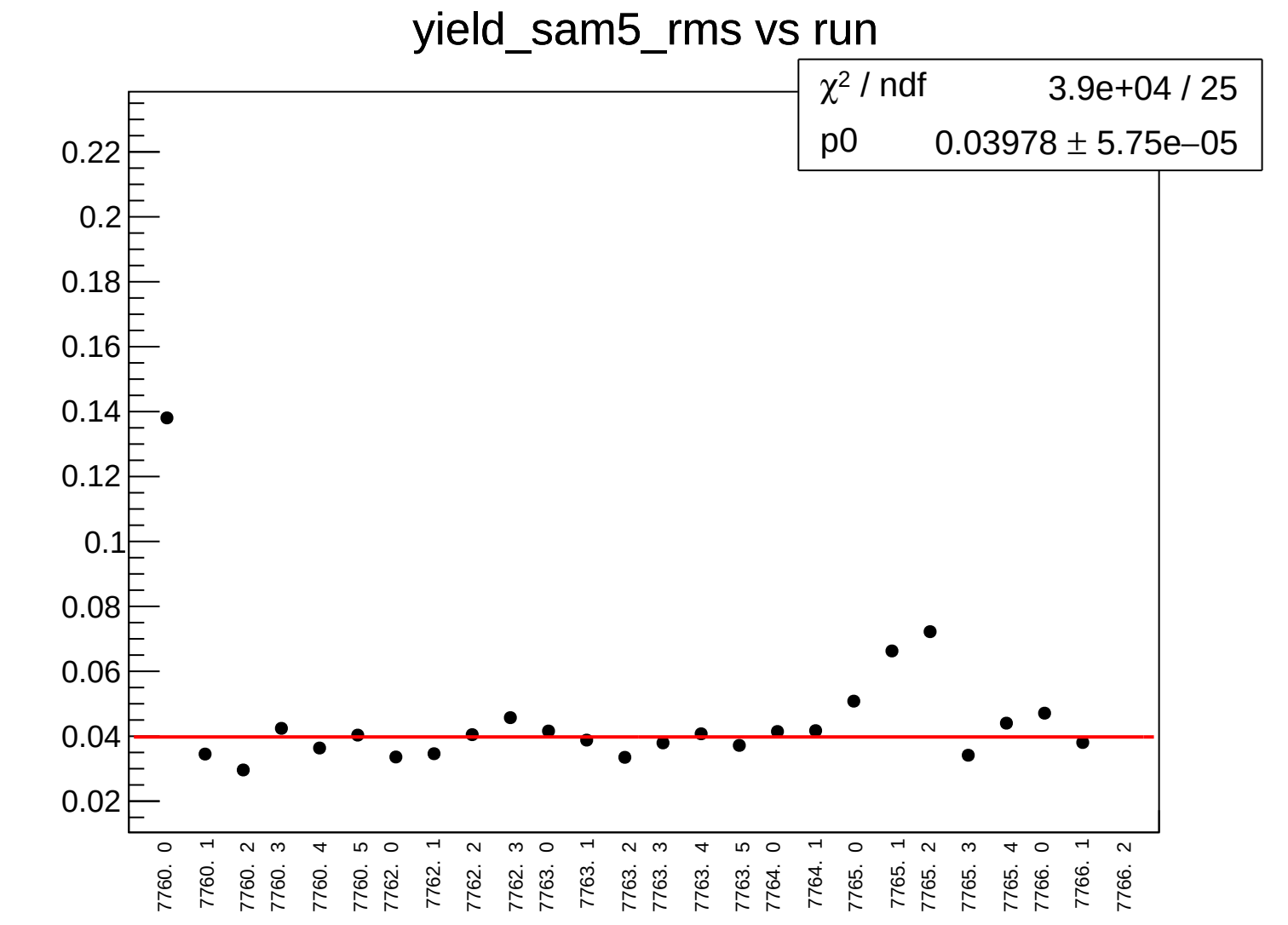

yield_sam4_mean vs run
χ² / ndf 2.745e+04 / 25
p0 13.99 ± 0.0004254
14.3
14.2
14.1
14
13.9
13.8
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 3.355
Std Dev 19.42
60
40
20
0
−20
−40

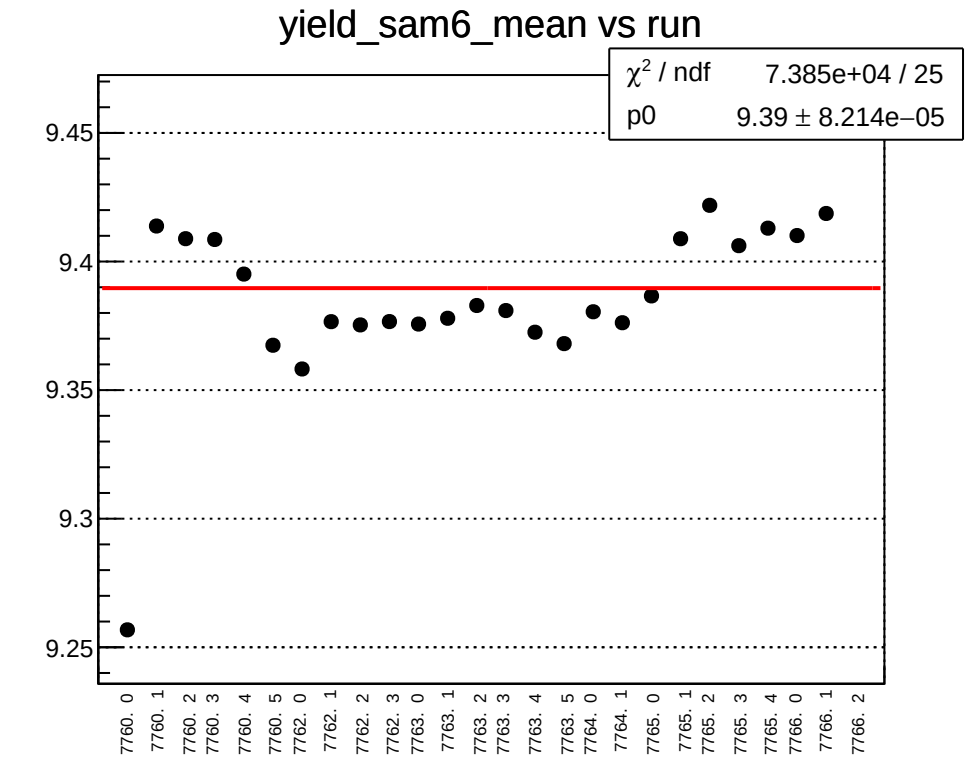

pull1D
Entries 26
Mean 0.7197
Std Dev 4.958
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

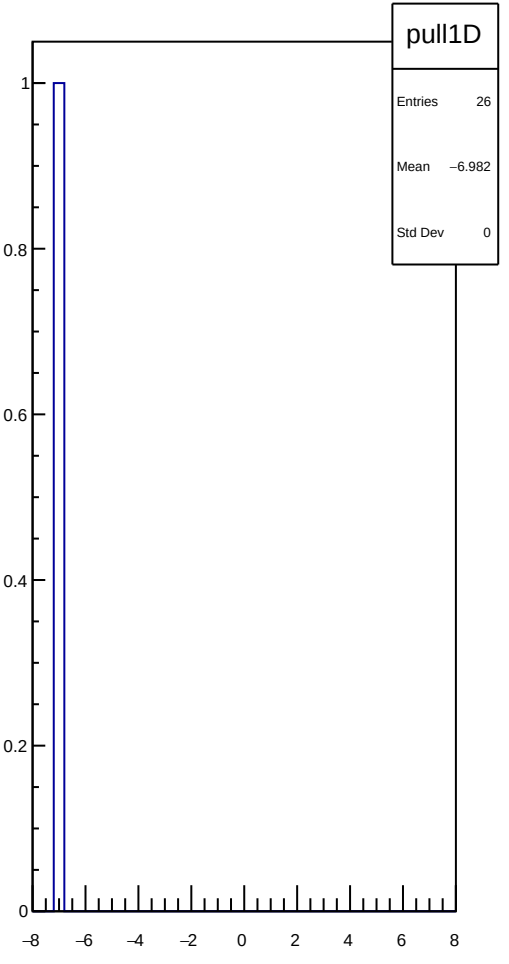

yield_sam4_rms vs run
χ² / ndf 2.993e+04 / 25
p0 0.21 ± 0.0003008
0.55
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

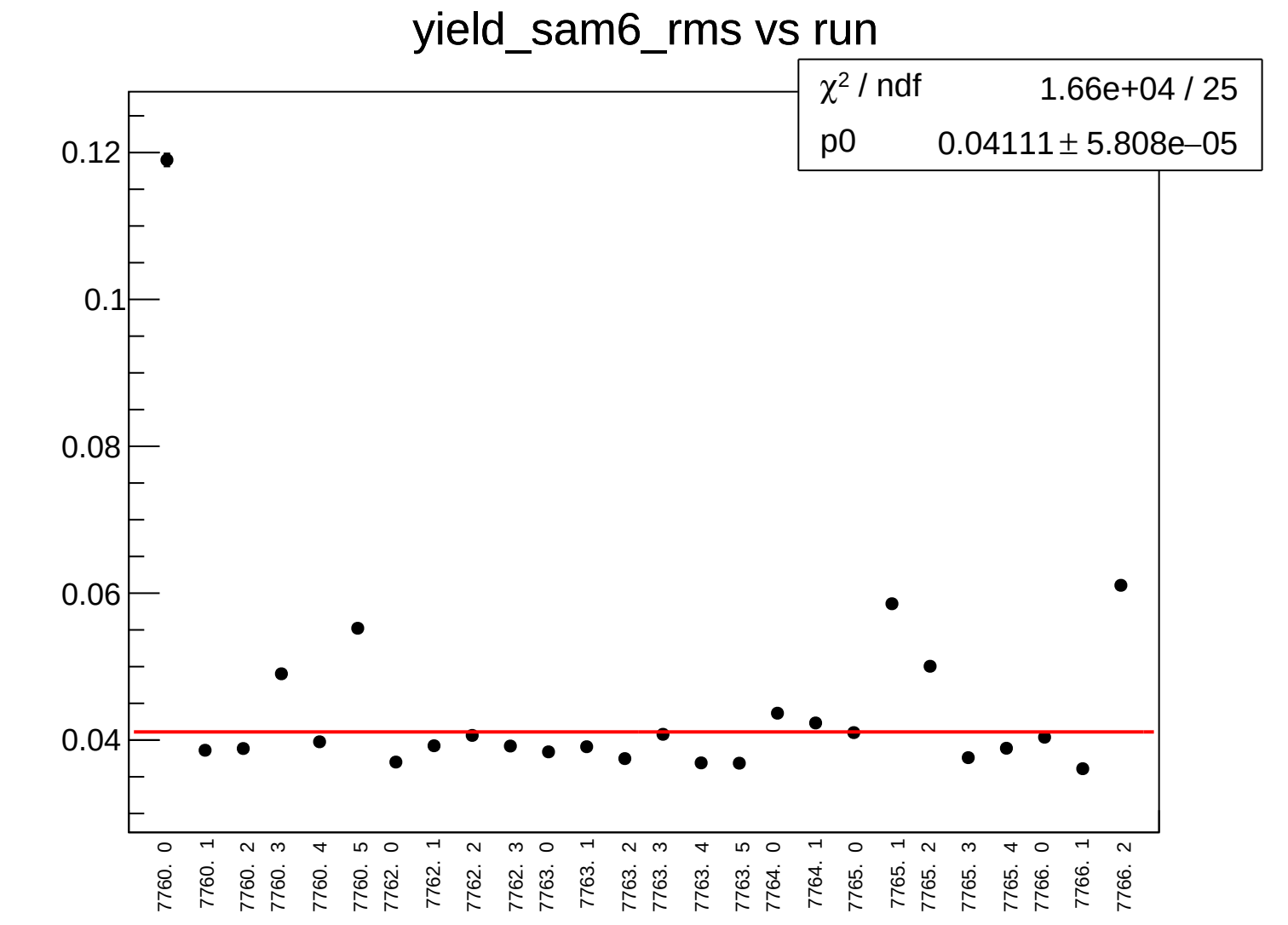

yield_sam5_mean vs run
χ² / ndf 2.038e+05 / 25
p0 17.32 ± 8.132e−05
17.5
17.45
17.4
17.35
17.3
17.25
17.2
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 238.9
Std Dev 223.8
150
100
50
0
−50
−100

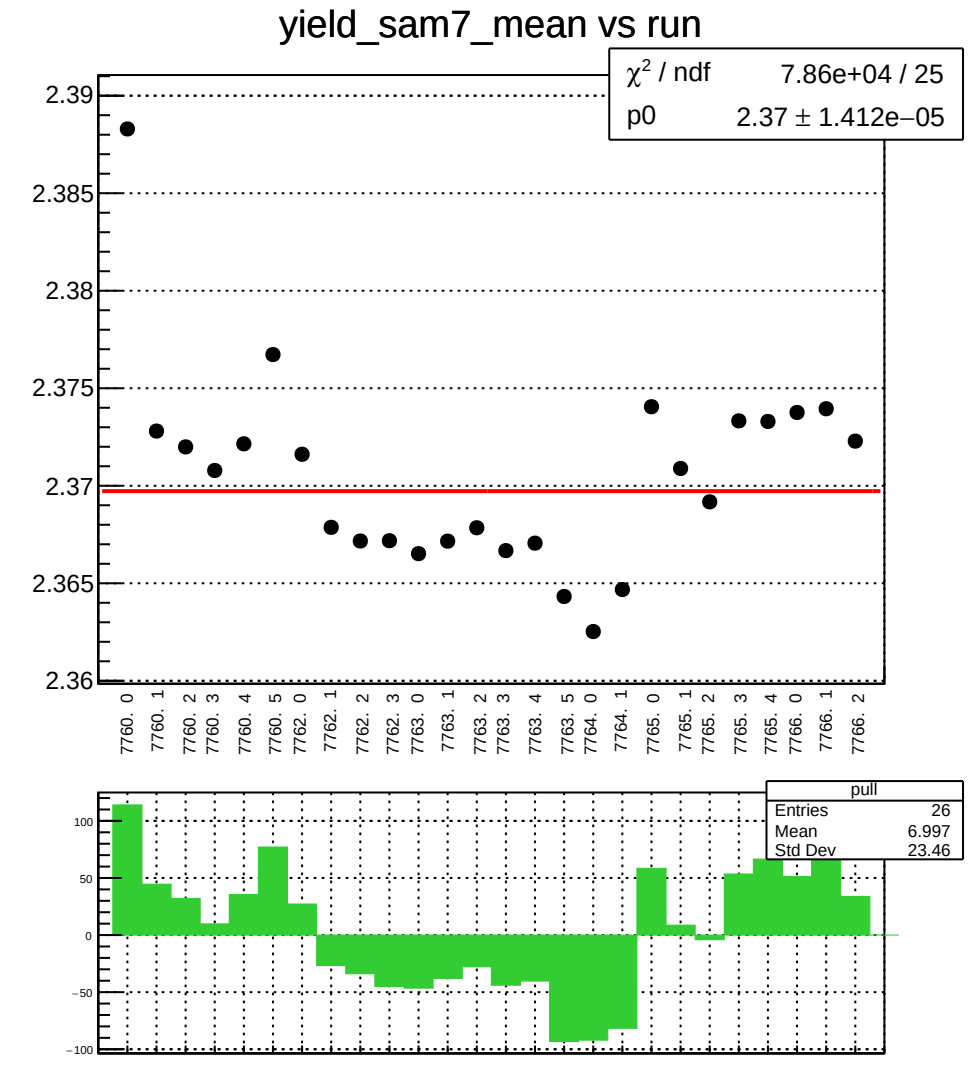

pull1D
Entries 26
Mean −2.778
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

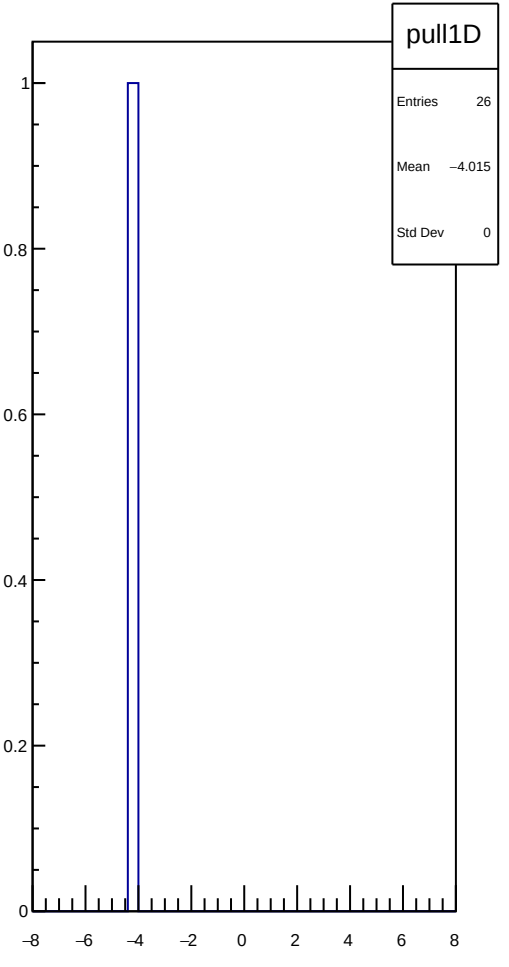

yield_sam5_rms vs run
χ² / ndf 3.9e+04 / 25
p0 0.03978 ± 5.75e−05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

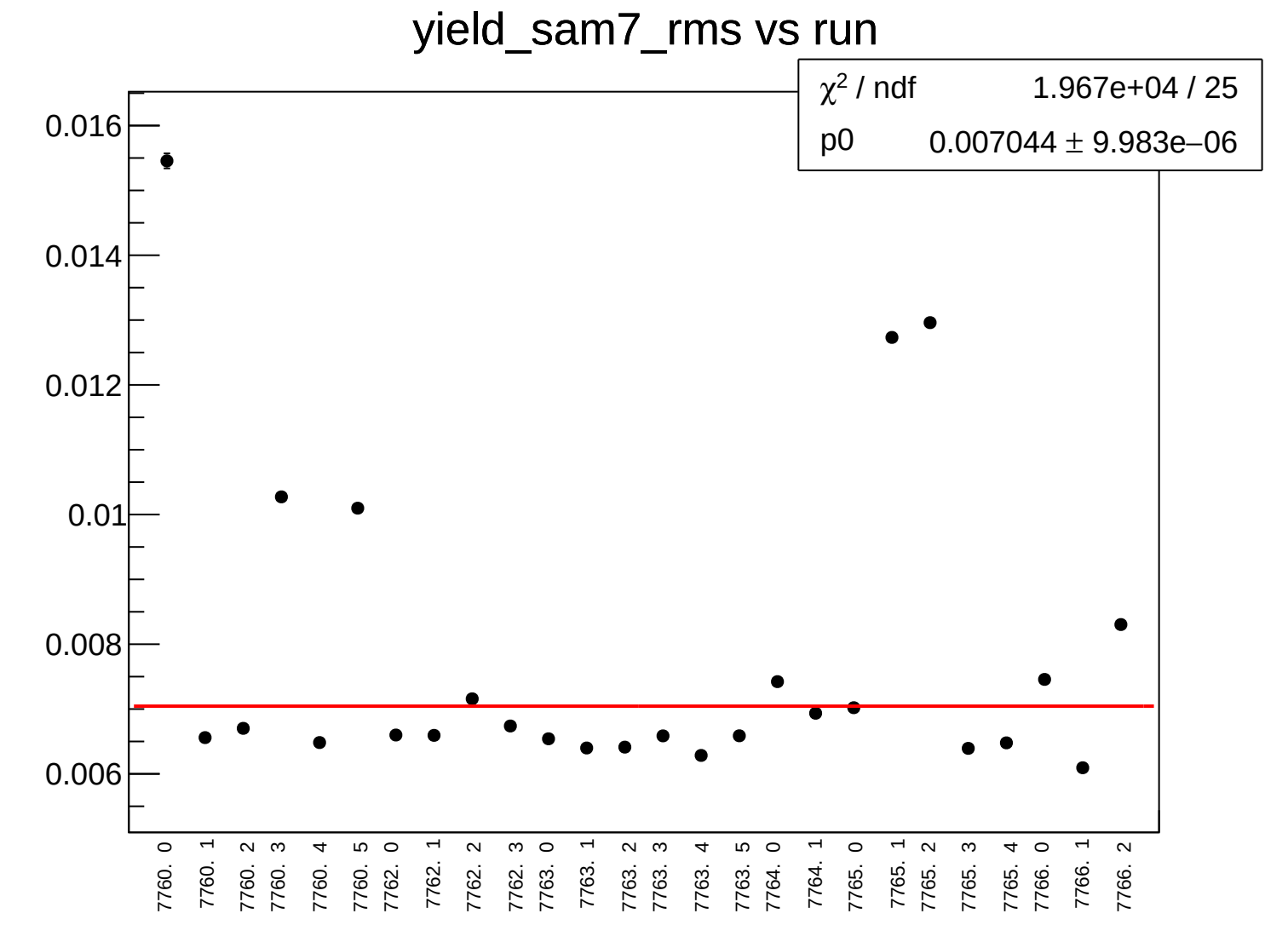

yield_sam6_mean vs run
χ² / ndf 7.385e+04 / 25
p0 9.39 ± 8.214e−05
9.45
9.4
9.35
9.3
9.25
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −486.2
Std Dev 502.9
100
50
0
−50
−100

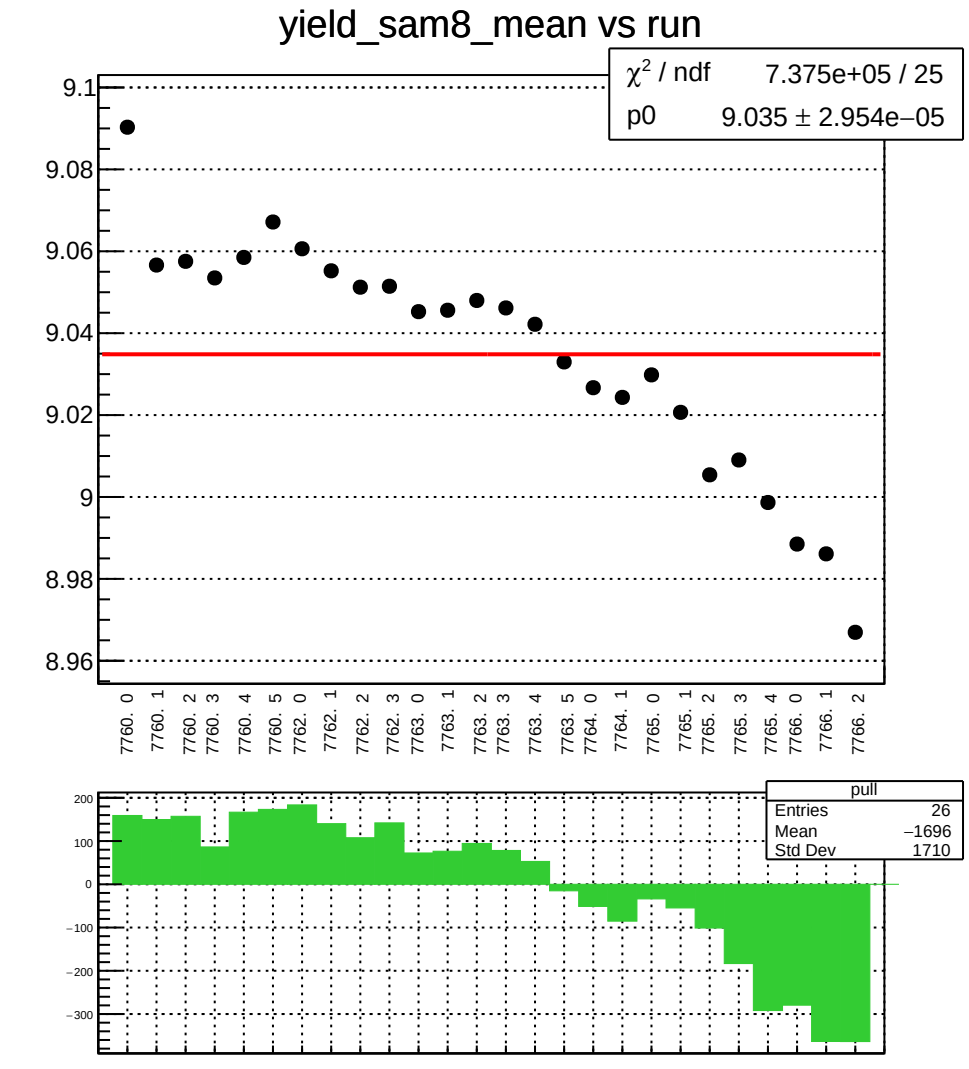

pull1D
Entries 26
Mean −6.982
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

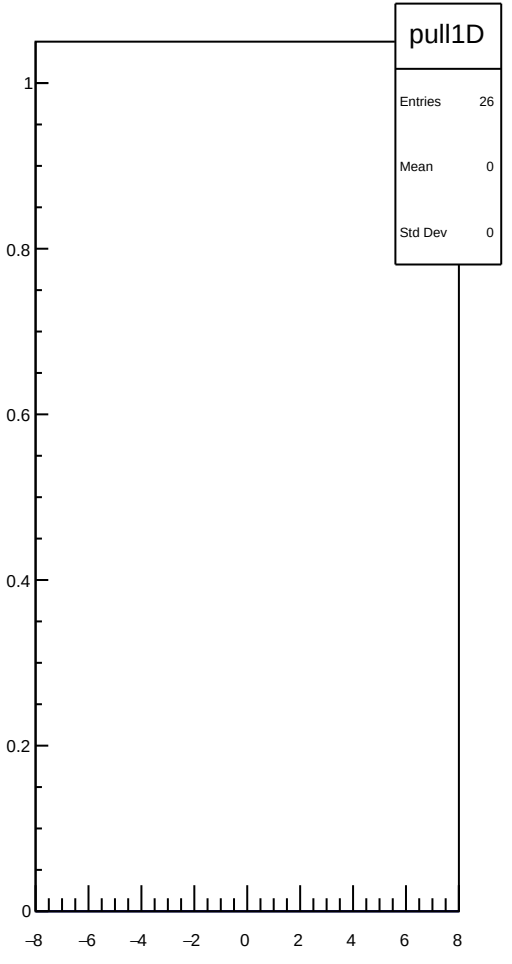

yield_sam6_rms vs run
χ² / ndf 1.66e+04 / 25
p0 0.04111 ± 5.808e–05
0.12
0.1
0.08
0.06
0.04
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

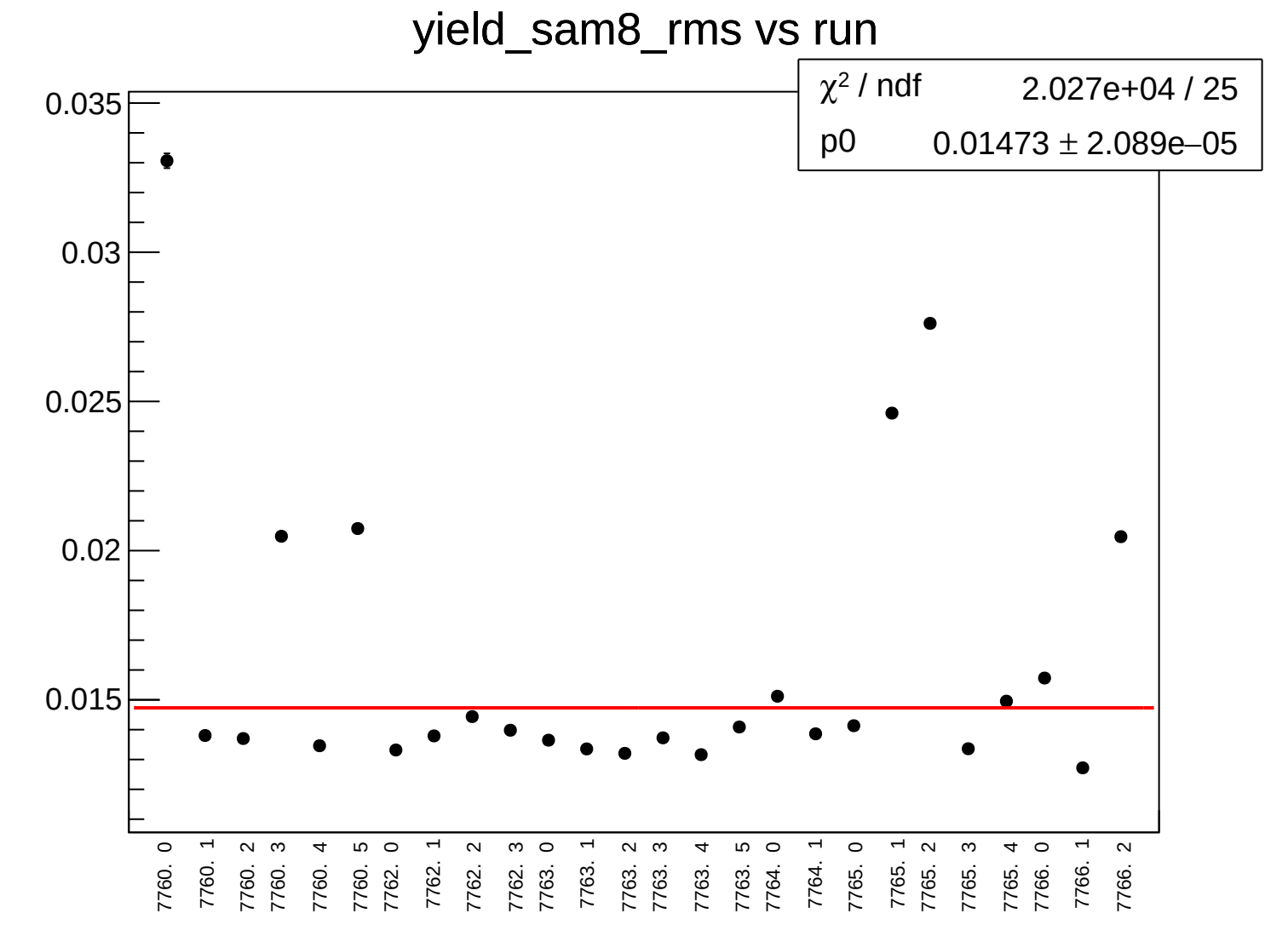

yield_sam7_mean vs run
χ² / ndf 7.86e+04 / 25
p0 2.37 ± 1.412e−05
2.39
2.385
2.38
2.375
2.37
2.365
2.36
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 6.997
Std Dev 23.46
100
50
0
−50
−100

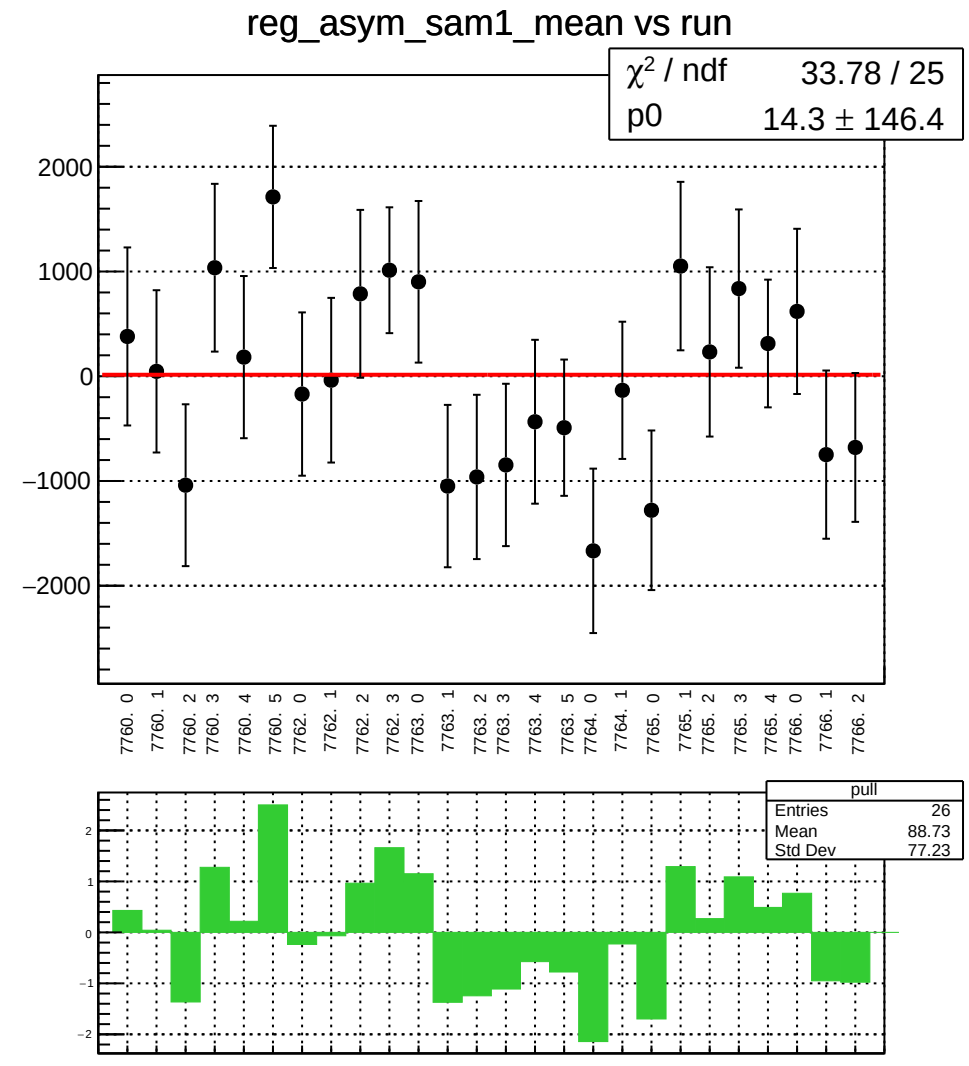

pull1D
Entries 26
Mean −4.015
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

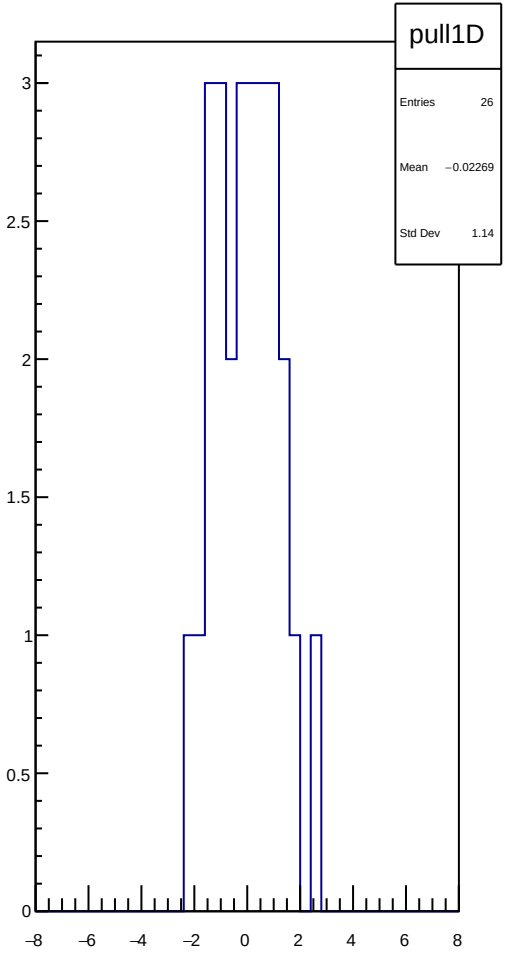

yield_sam7_rms vs run
χ² / ndf 1.967e+04 / 25
p0 0.007044 ± 9.983e−06
0.016
0.014
0.012
0.01
0.008
0.006
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

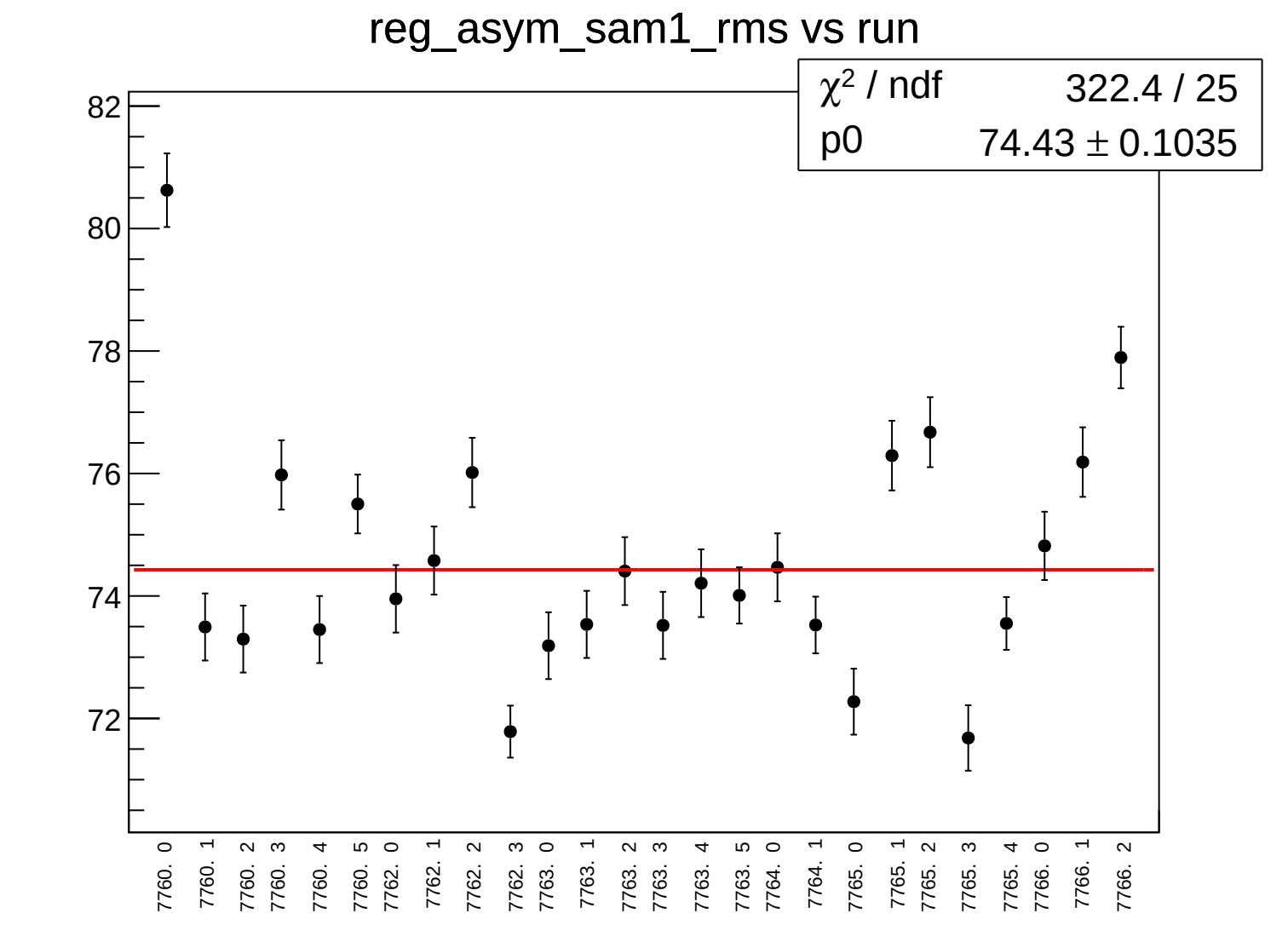

yield_sam8_mean vs run
χ² / ndf 7.375e+05 / 25
p0 9.035 ± 2.954e−05
9.1
9.08
9.06
9.04
9.02
9
8.98
8.96
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −1696
Std Dev 1710
200
100
0
−100
−200
−300

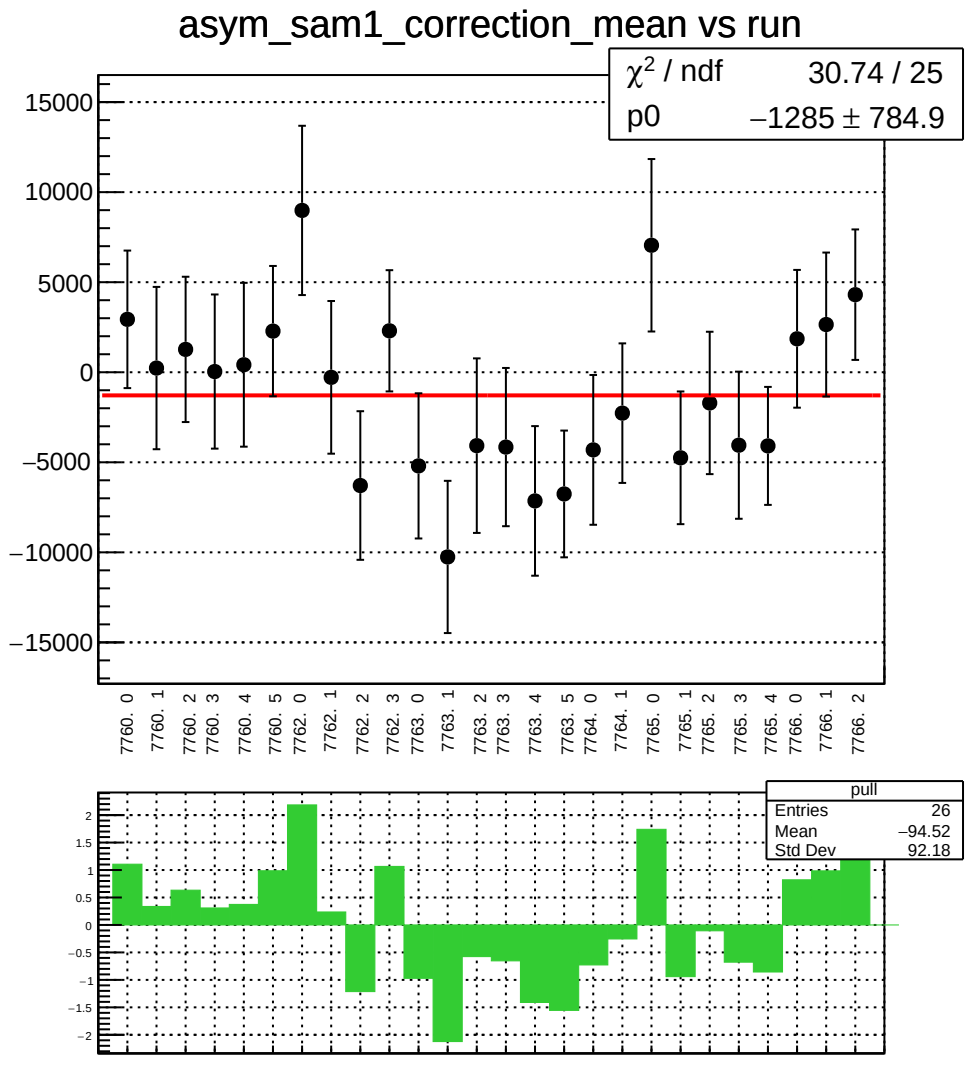

pull1D
Entries 26
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

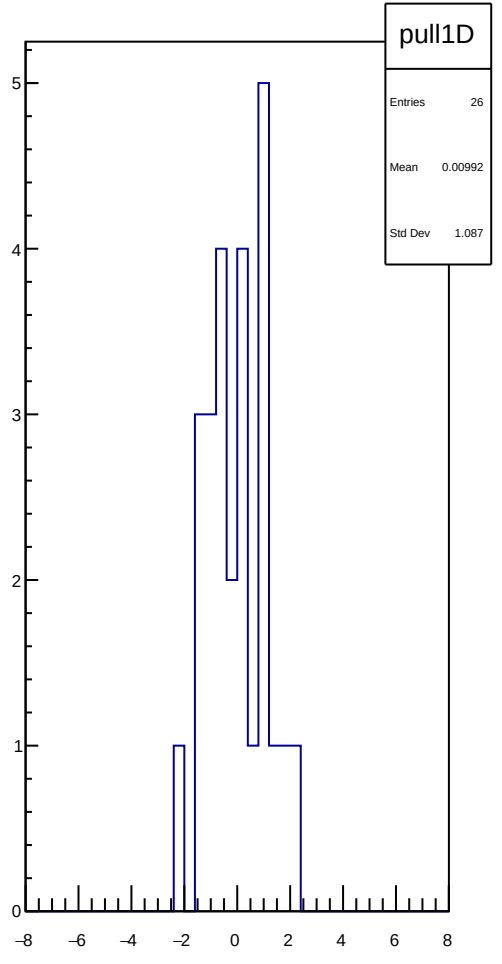

yield_sam8_rms vs run
χ² / ndf 2.027e+04 / 25
p0 0.01473 ± 2.089e−05
0.035
0.03
0.025
0.02
0.015
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

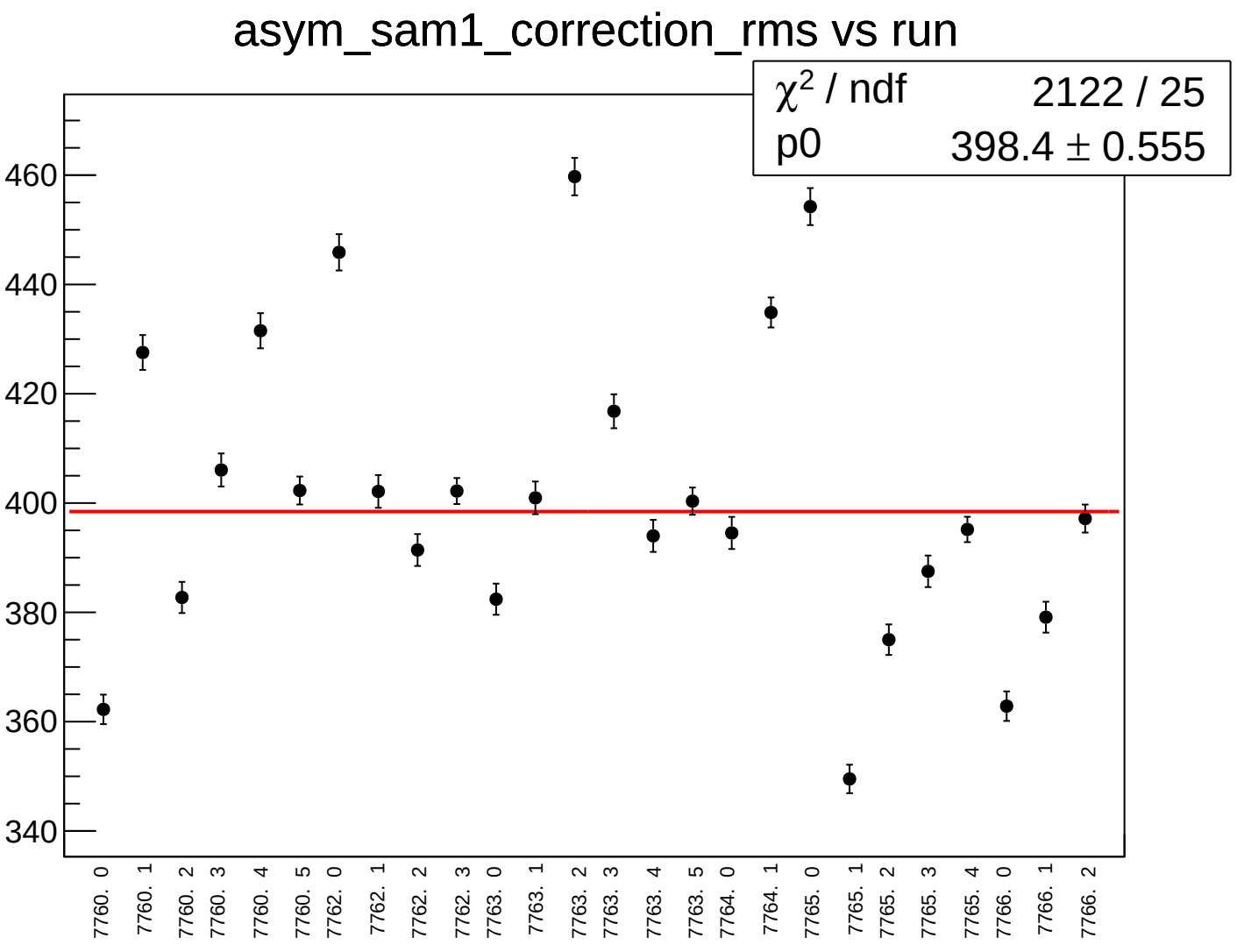

reg_asym_sam1_mean vs run
χ² / ndf 33.78 / 25
p0 14.3 ± 146.4
2000
1000
0
−1000
−2000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 88.73
Std Dev 77.23
2
1
0
−1
−2

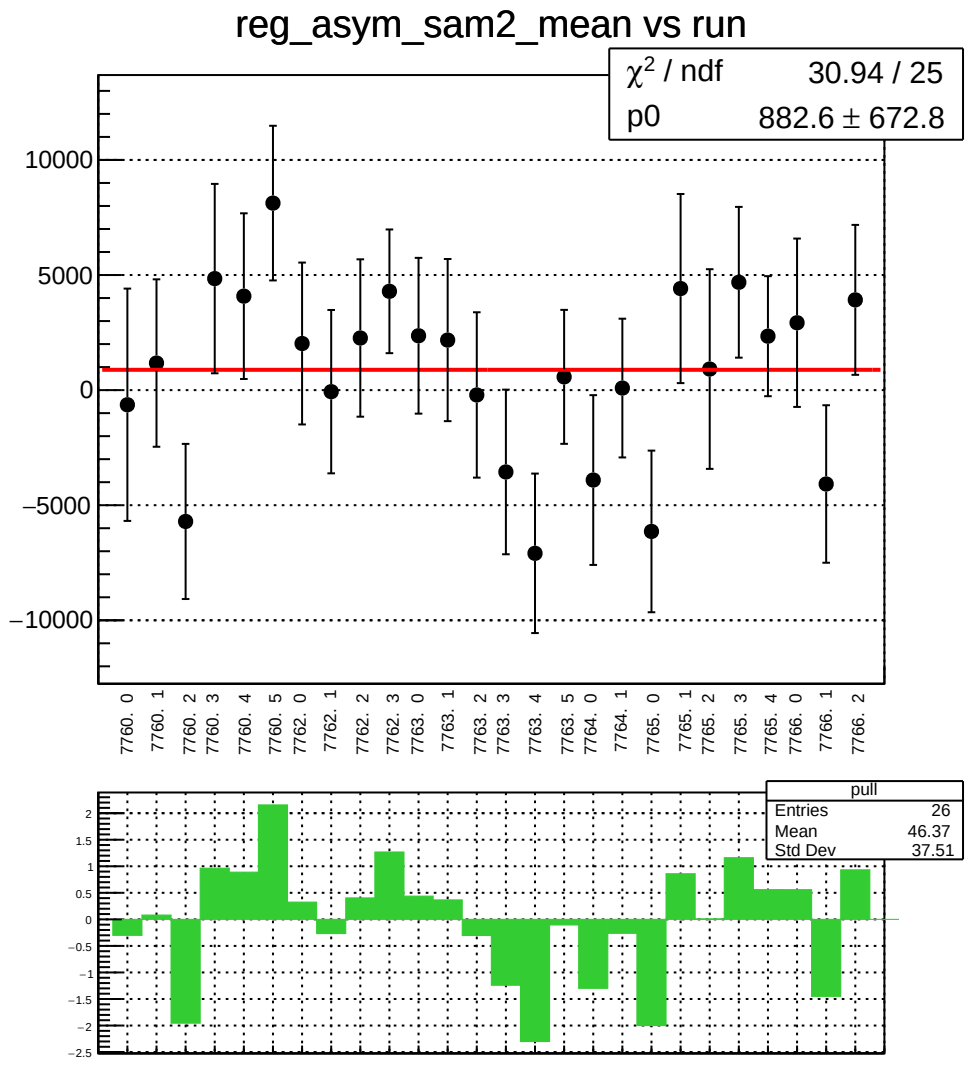

pull1D
Entries 26
Mean −0.02269
Std Dev 1.14
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

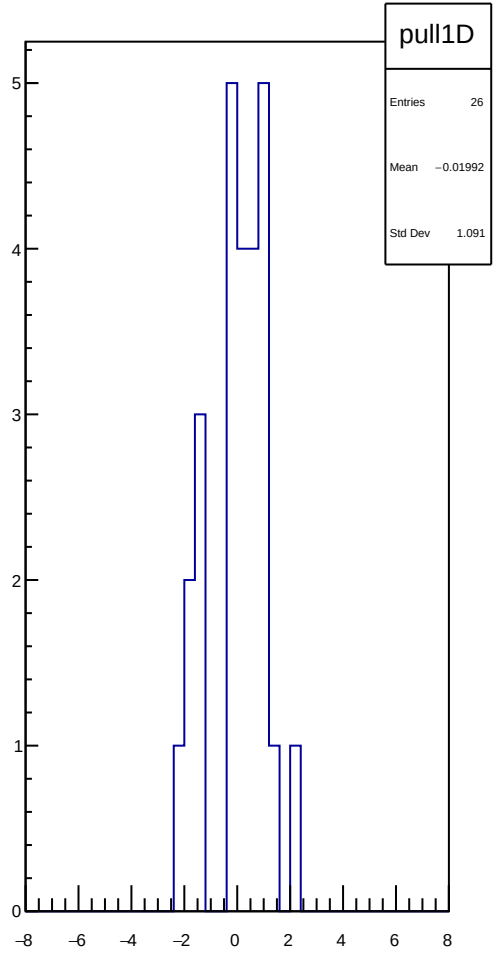

reg_asym_sam1_rms vs run
χ² / ndf 322.4 / 25
p0 74.43 ± 0.1035
82
80
78
76
74
72
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

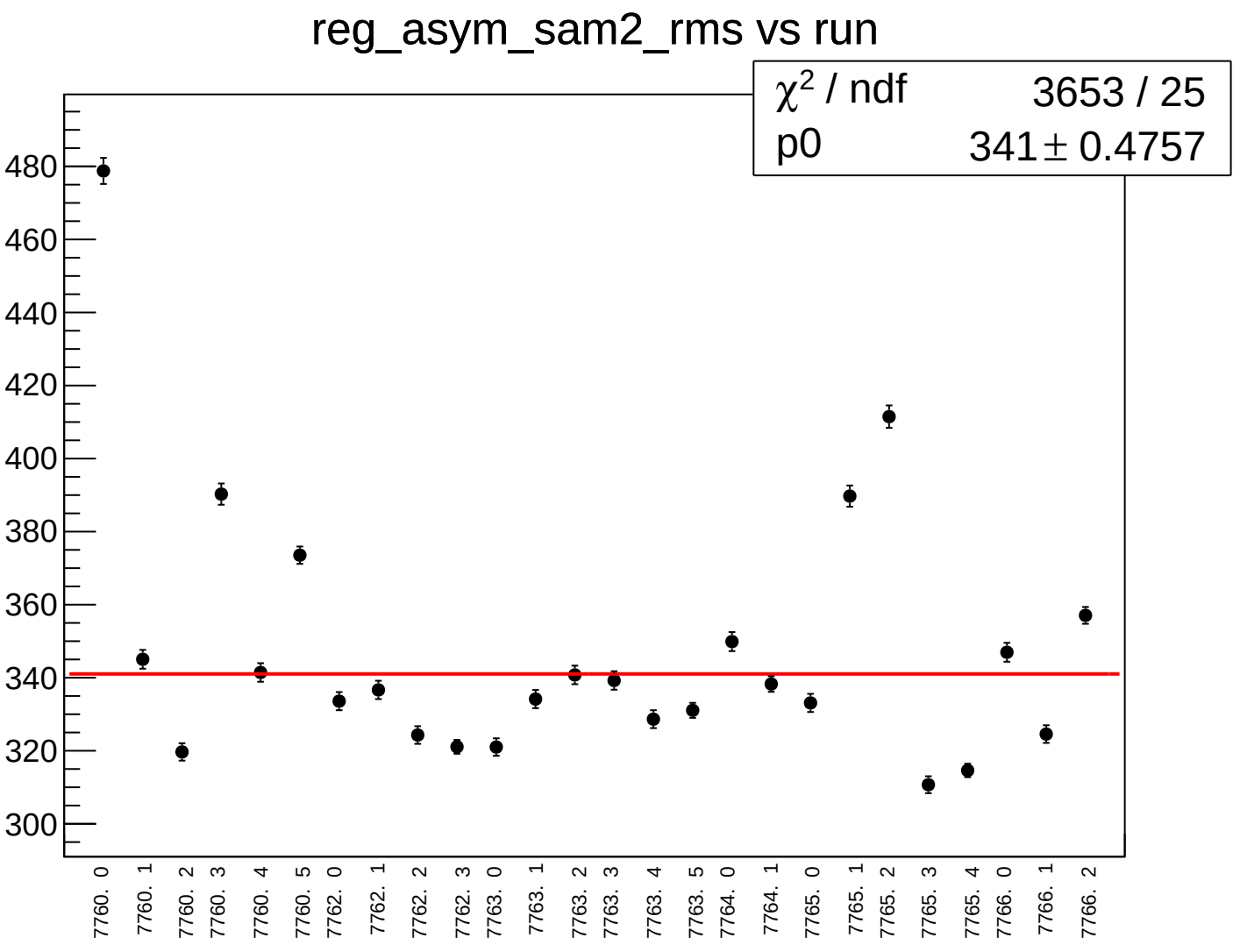

asym_sam1_correction_mean vs run
χ² / ndf 30.74 / 25
p0 −1285 ± 784.9
15000
10000
5000
0
−5000
−10000
−15000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −94.52
Std Dev 92.18
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

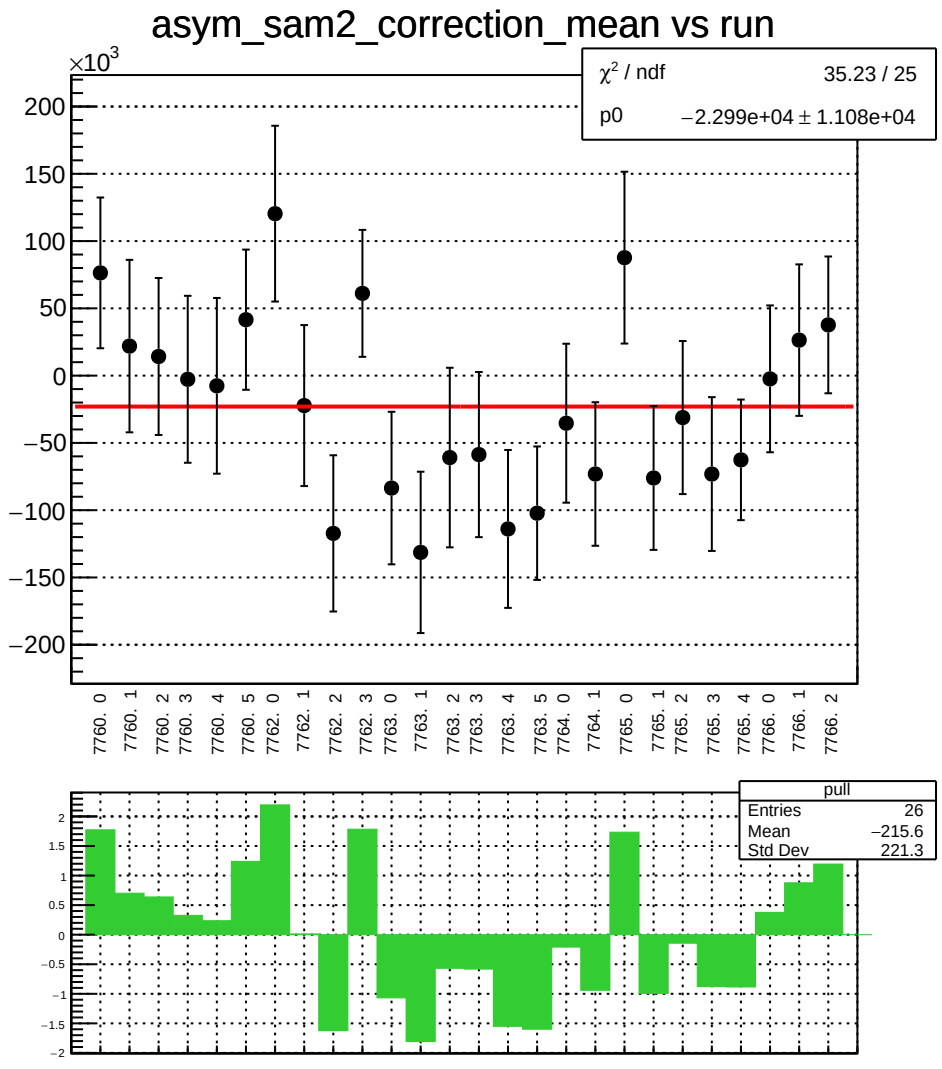

pull1D
Entries 26
Mean 0.00992
Std Dev 1.087
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

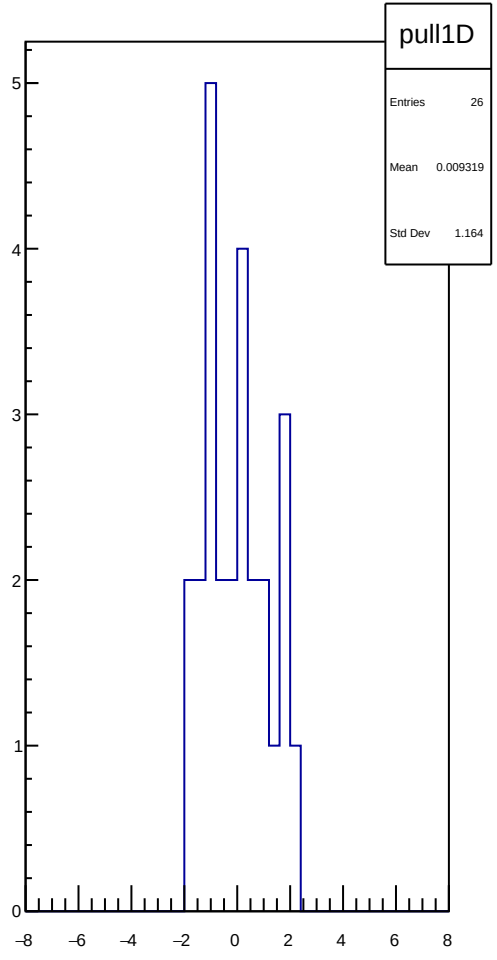

asym_sam1_correction_rms vs run
χ² / ndf 2122 / 25
p0 398.4 ± 0.555
460
440
420
400
380
360
340
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

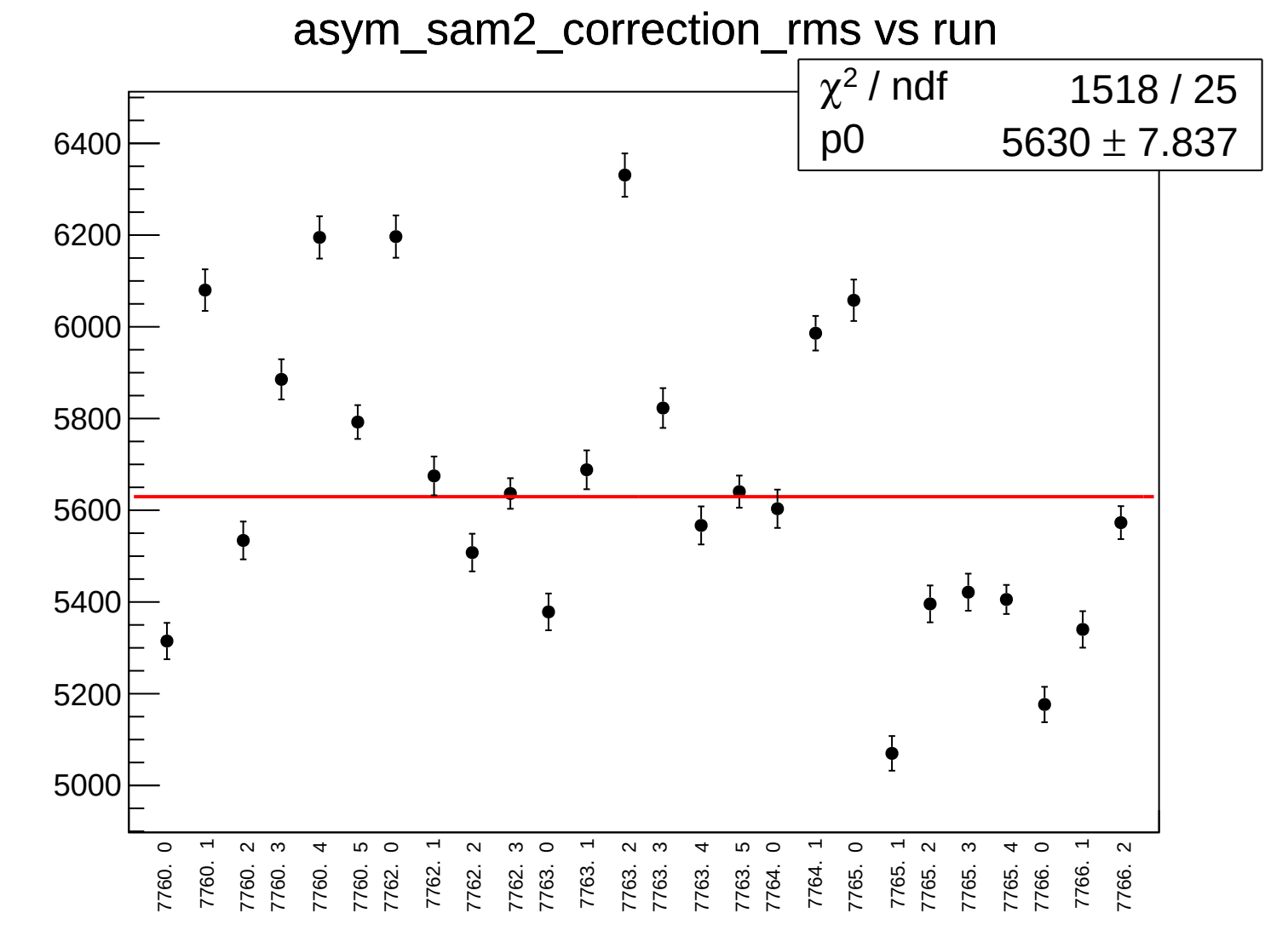

reg_asym_sam2_mean vs run
χ^2 / ndf 30.94 / 25
p0 882.6 ± 672.8
10000
5000
0
−5000
−10000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 46.37
Std Dev 37.51
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

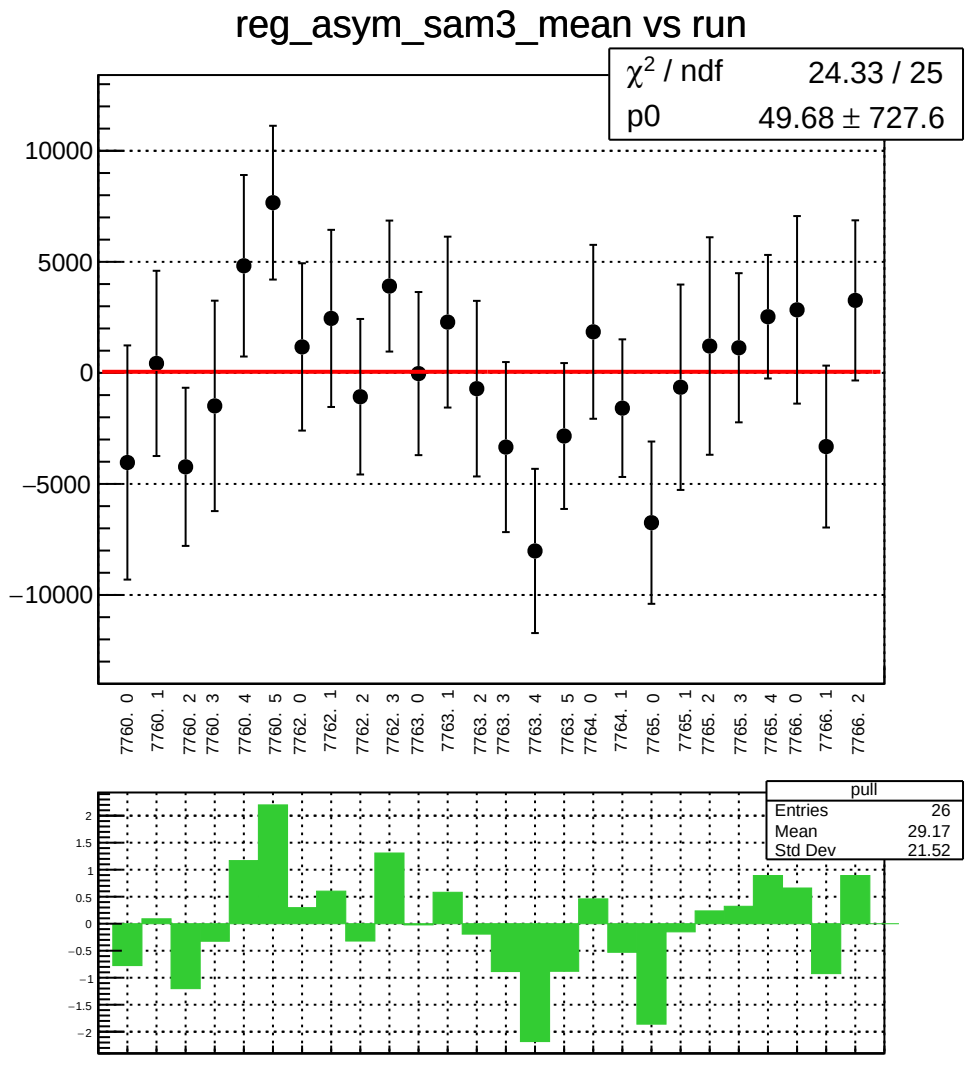

pull1D
Entries 26
Mean −0.01992
Std Dev 1.091
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

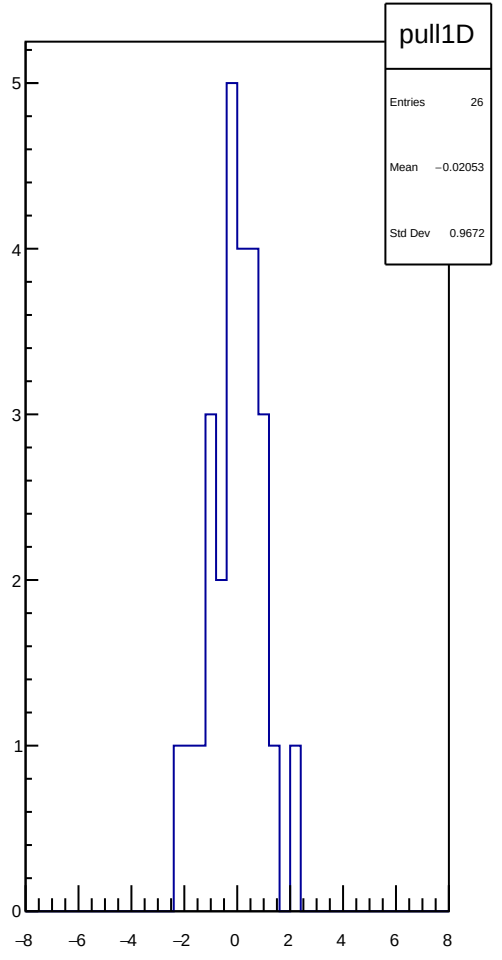

reg_asym_sam2_rms vs run
χ² / ndf 3653 / 25
p0 341 ± 0.4757
480
460
440
420
400
380
360
340
320
300
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

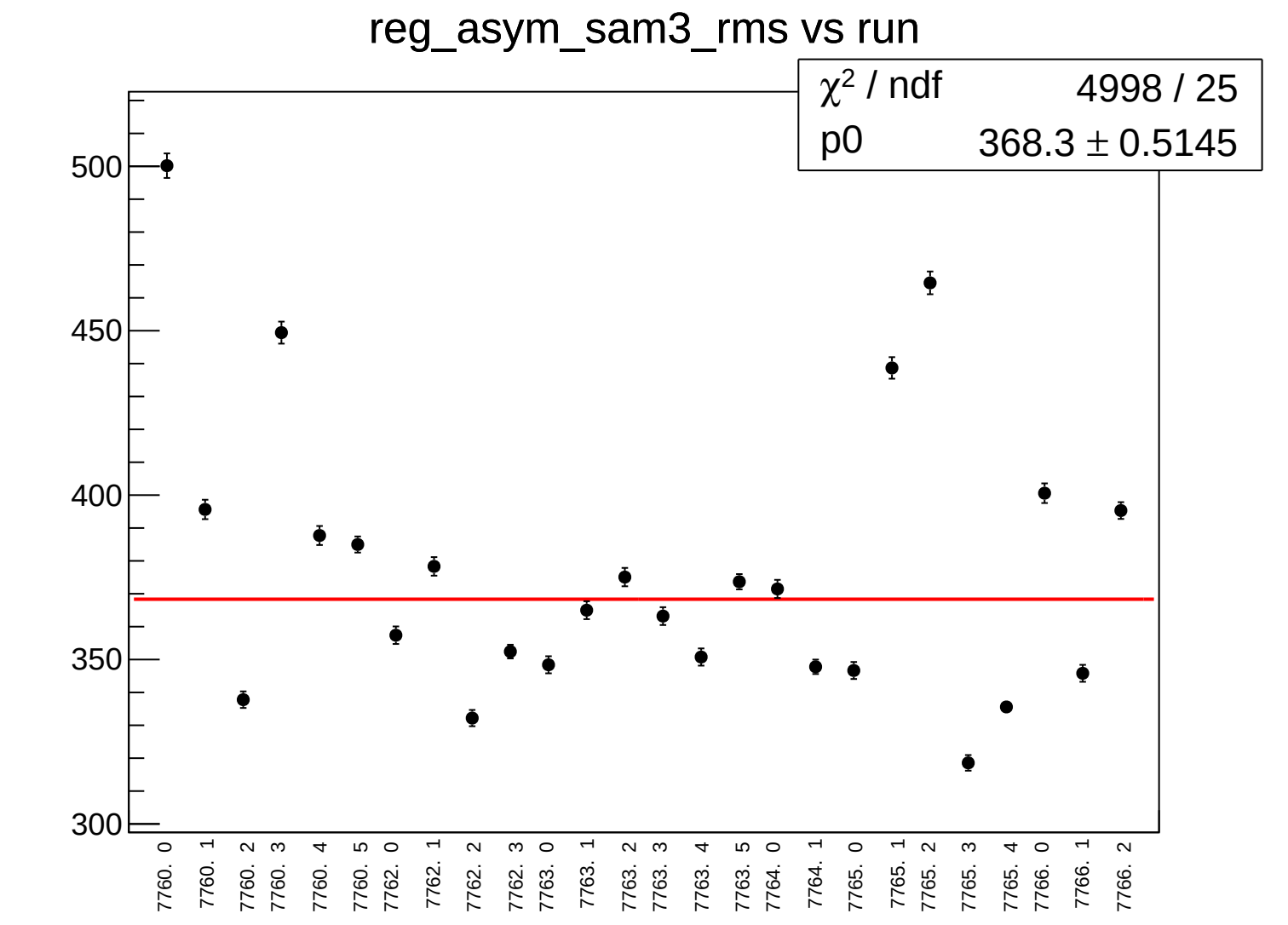

asym_sam2_correction_mean vs run
×10^3
χ² / ndf 35.23 / 25
p0 −2.299e+04 ± 1.108e+04
200
150
100
50
0
−50
−100
−150
−200
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −215.6
Std Dev 221.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

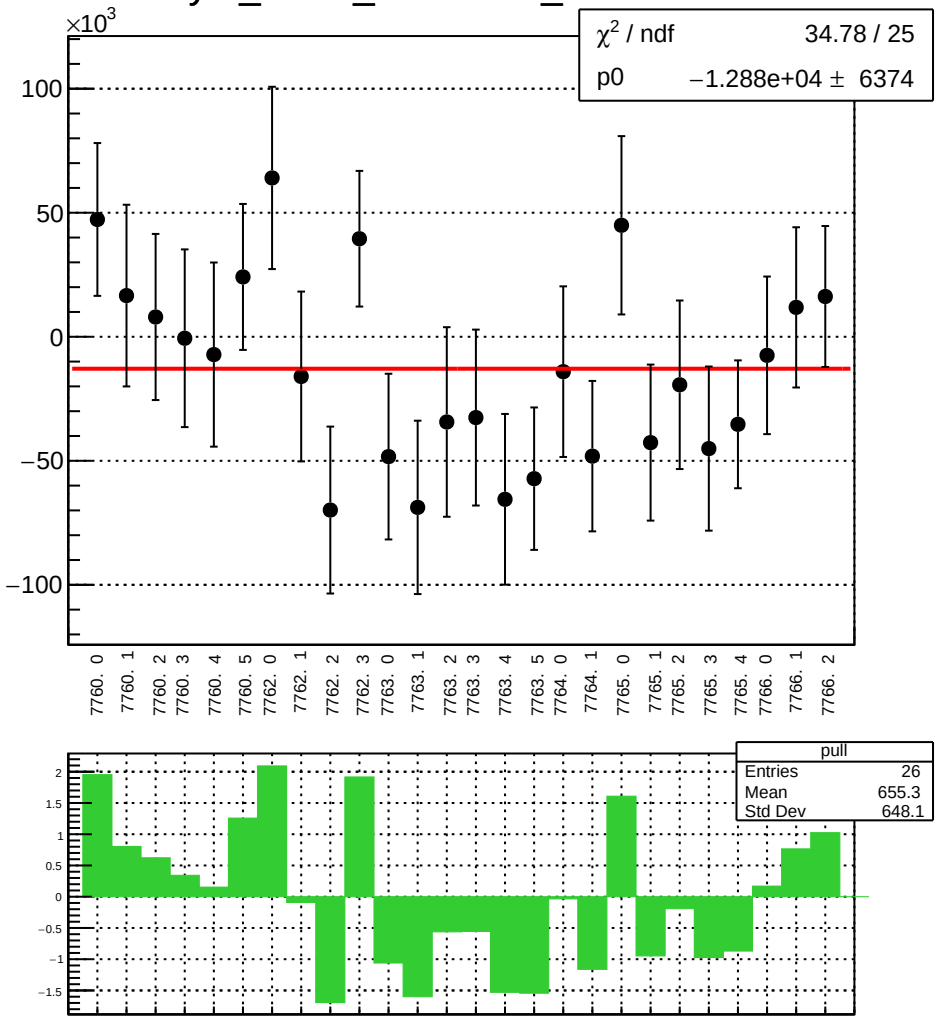

pull1D
Entries 26
Mean 0.009319
Std Dev 1.164
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

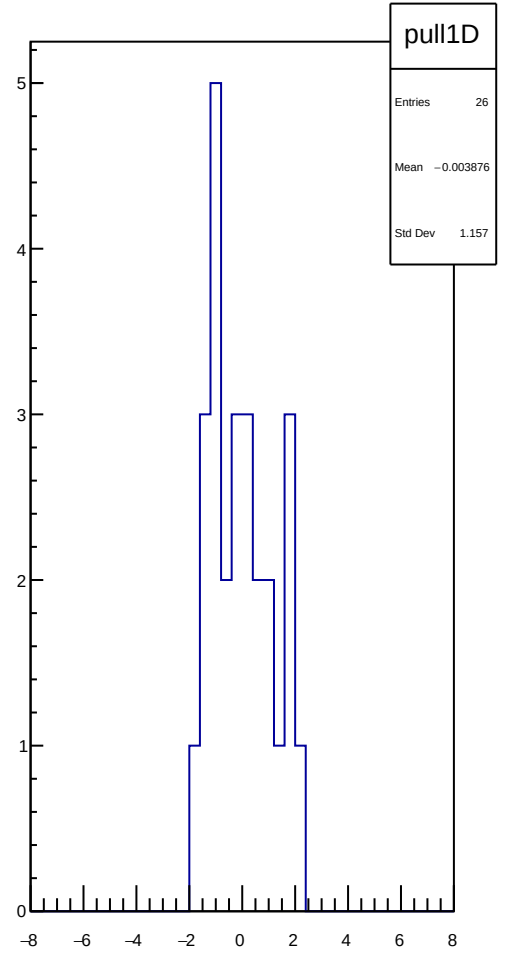

asym_sam2_correction_rms vs run
χ² / ndf 1518 / 25
p0 5630 ± 7.837
6400
6200
6000
5800
5600
5400
5200
5000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

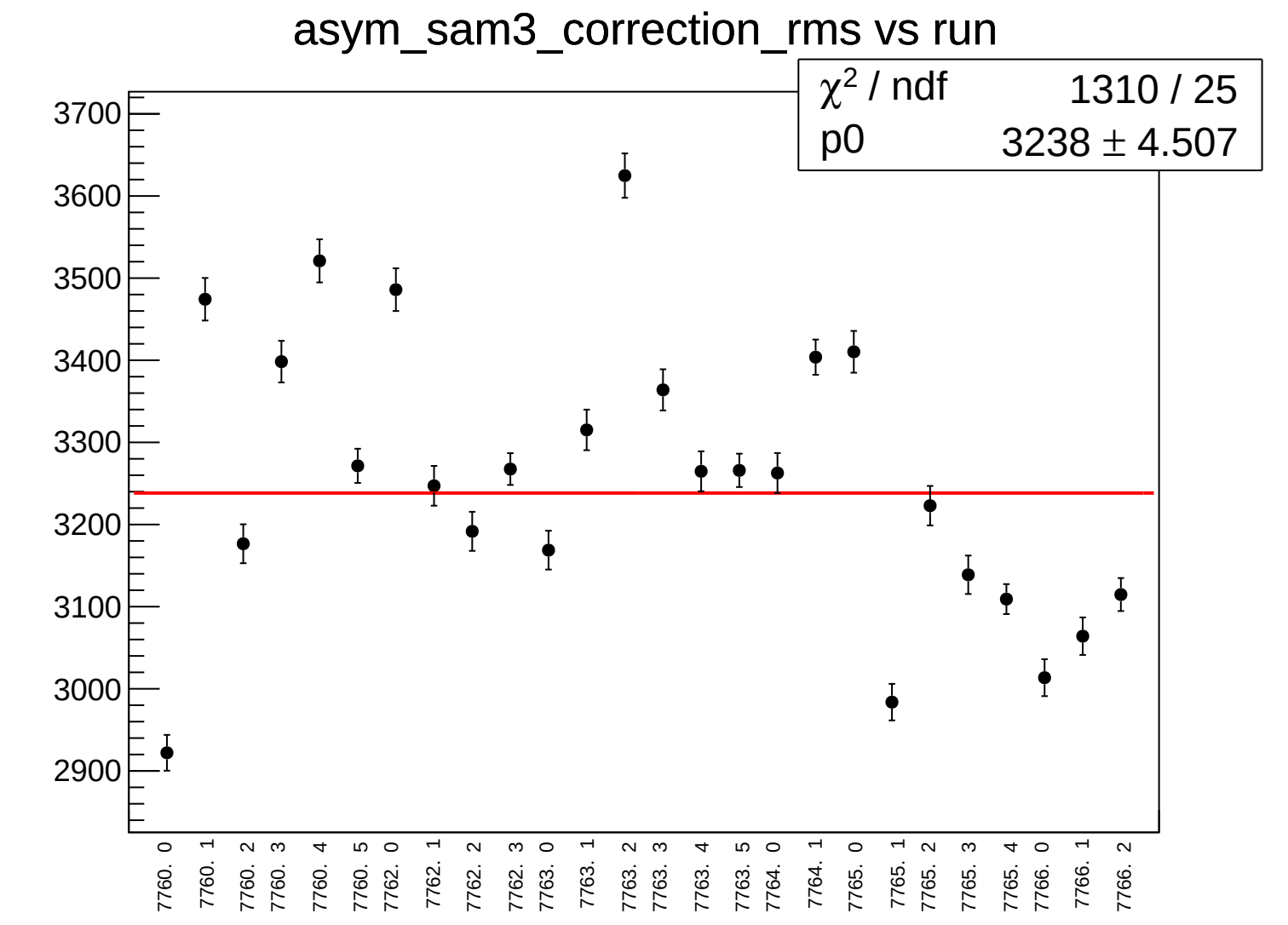

reg_asym_sam3_mean vs run
χ² / ndf 24.33 / 25
p0 49.68 ± 727.6
10000
5000
0
−5000
−10000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 29.17
Std Dev 21.52
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

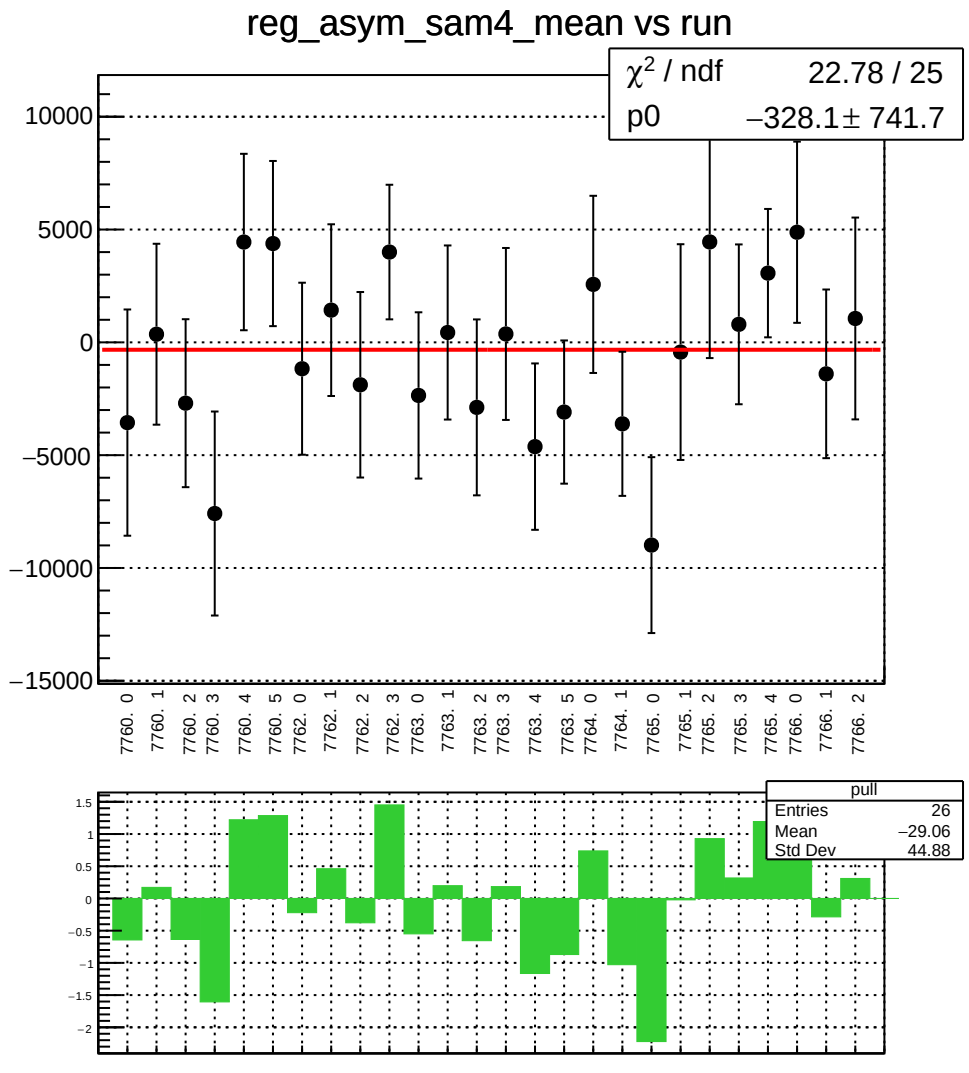

pull1D
Entries 26
Mean −0.02053
Std Dev 0.9672
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

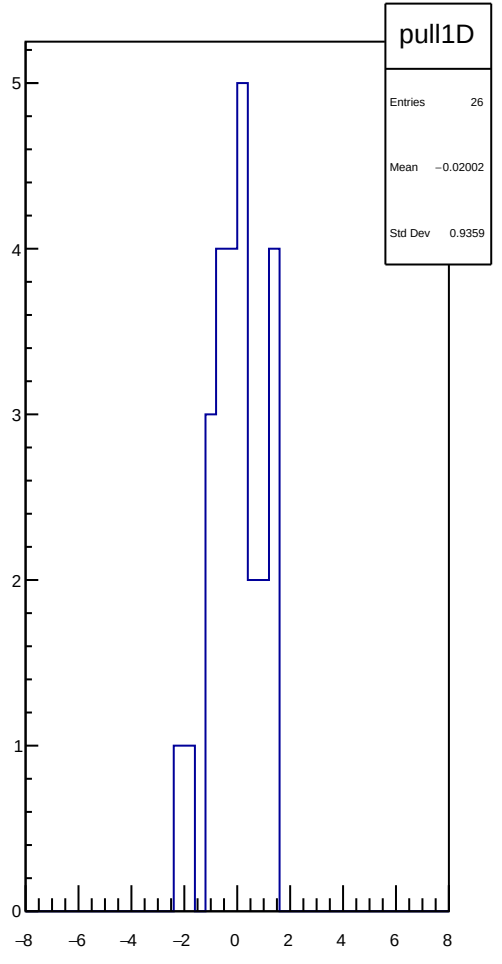

reg_asym_sam3_rms vs run
χ² / ndf 4998 / 25
p0 368.3 ± 0.5145
500
450
400
350
300
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

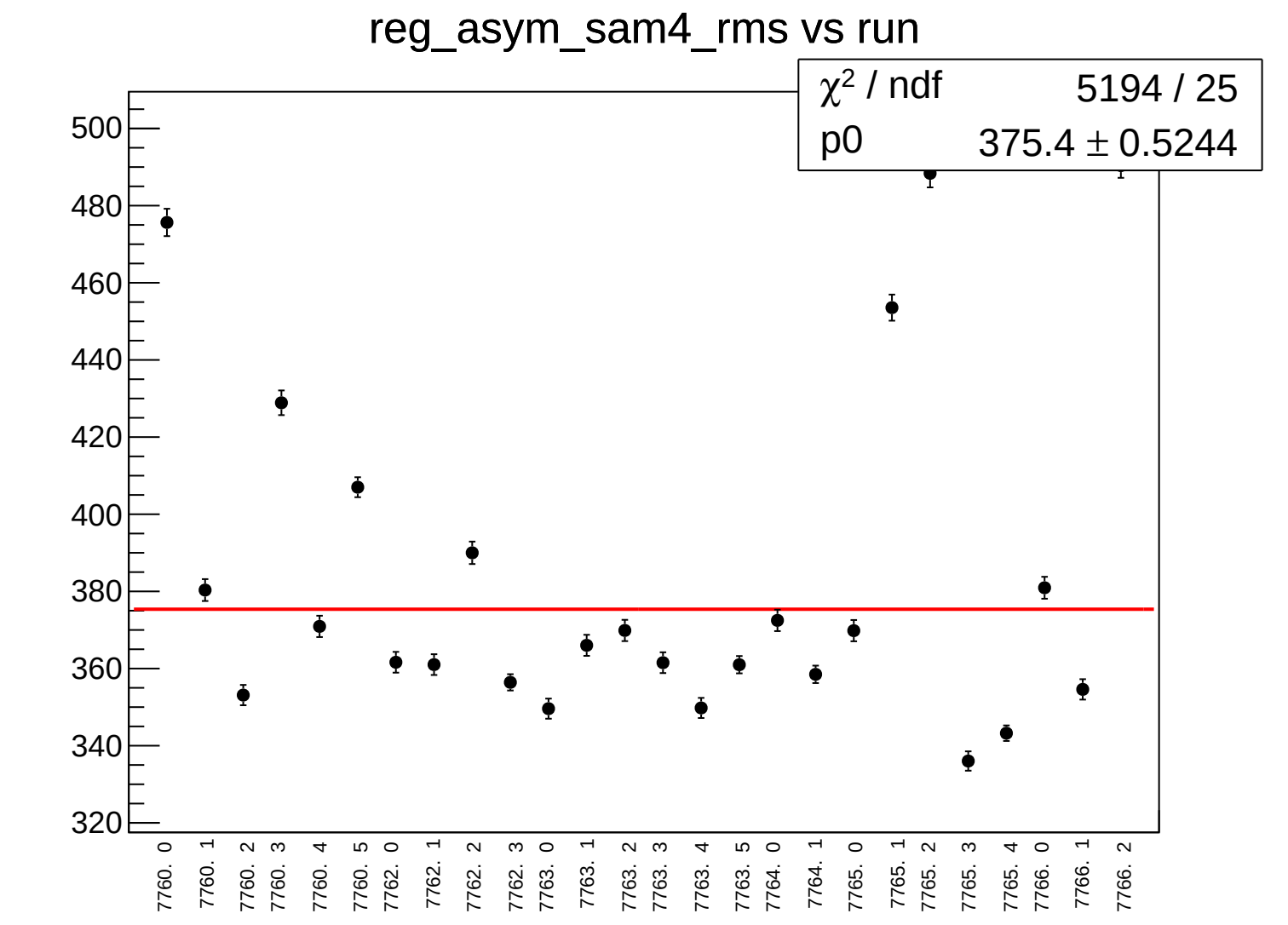

asym_sam3_correction_mean vs run
×10^3
χ² / ndf 34.78 / 25
p0 −1.288e+04 ± 6374
100
50
0
−50
−100
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 655.3
Std Dev 648.1
2
1.5
1
0.5
0
−0.5
−1
−1.5

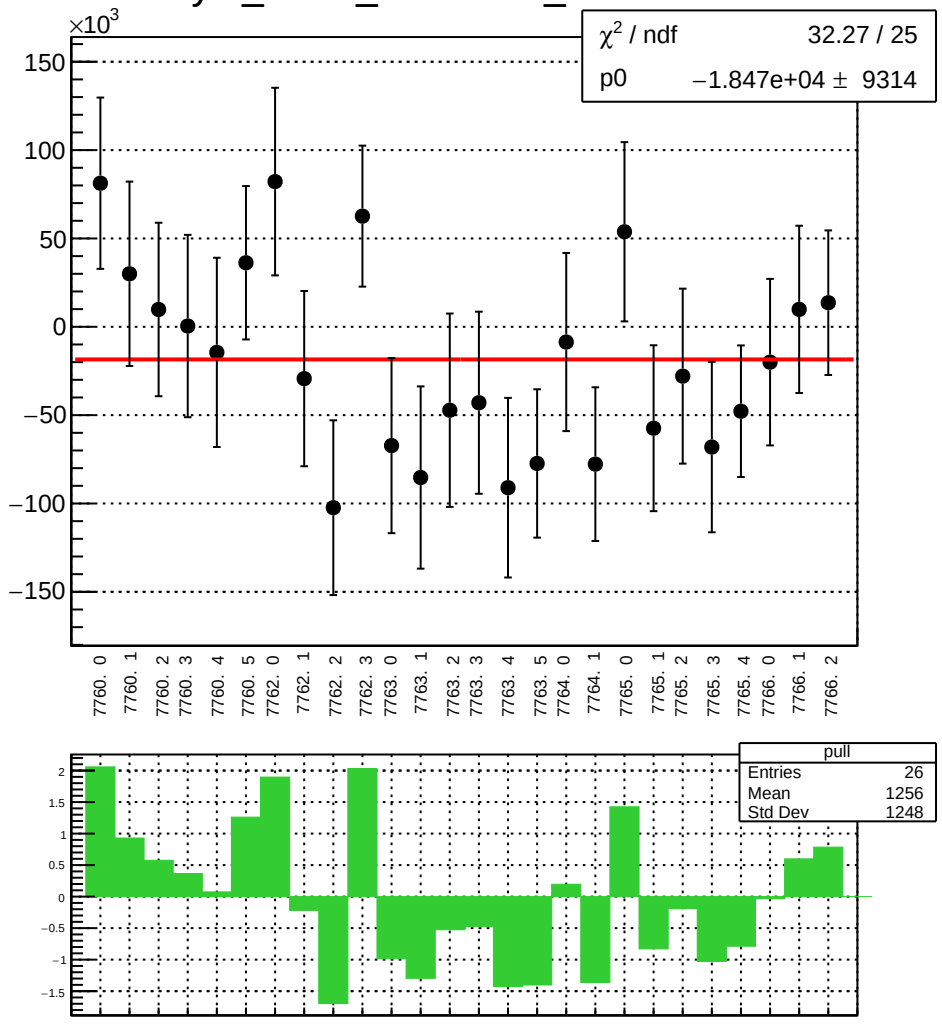

pull1D
Entries 26
Mean −0.003876
Std Dev 1.157
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

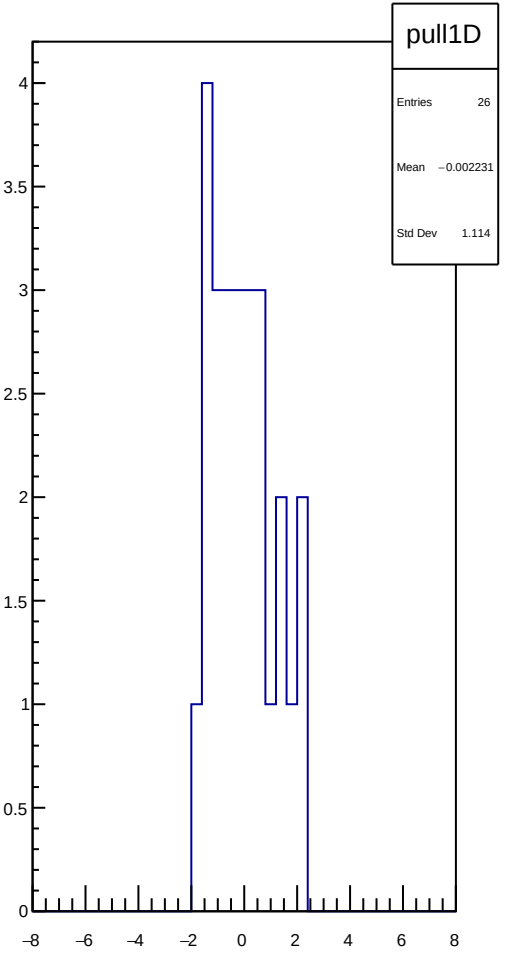

asym_sam3_correction_rms vs run
χ² / ndf 1310 / 25
p0 3238 ± 4.507
3700
3600
3500
3400
3300
3200
3100
3000
2900
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

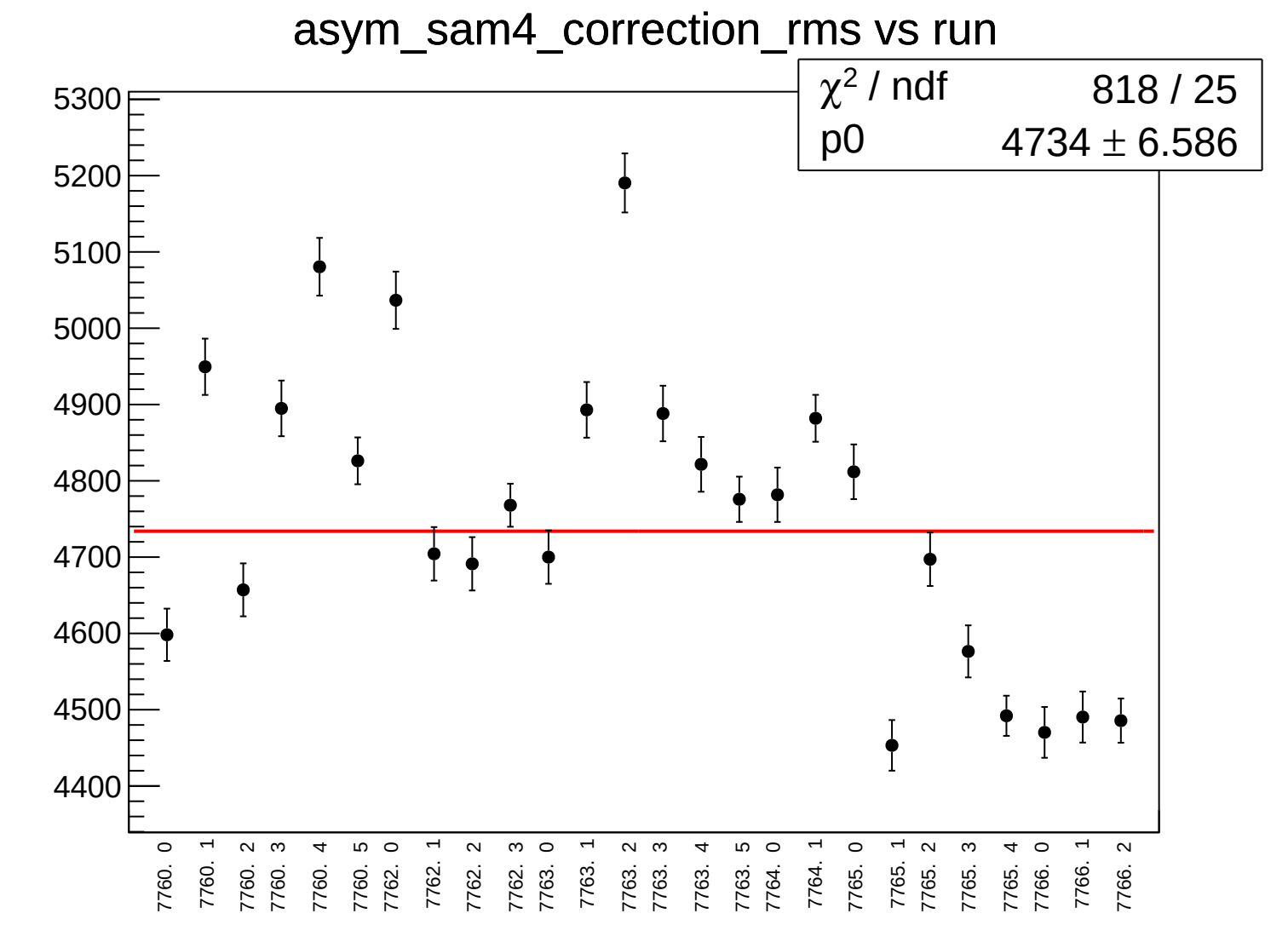

reg_asym_sam4_mean vs run
χ² / ndf 22.78 / 25
p0 −328.1± 741.7
10000
5000
0
−5000
−10000
−15000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −29.06
Std Dev 44.88
1.5
1
0.5
0
−0.5
−1
−1.5
−2

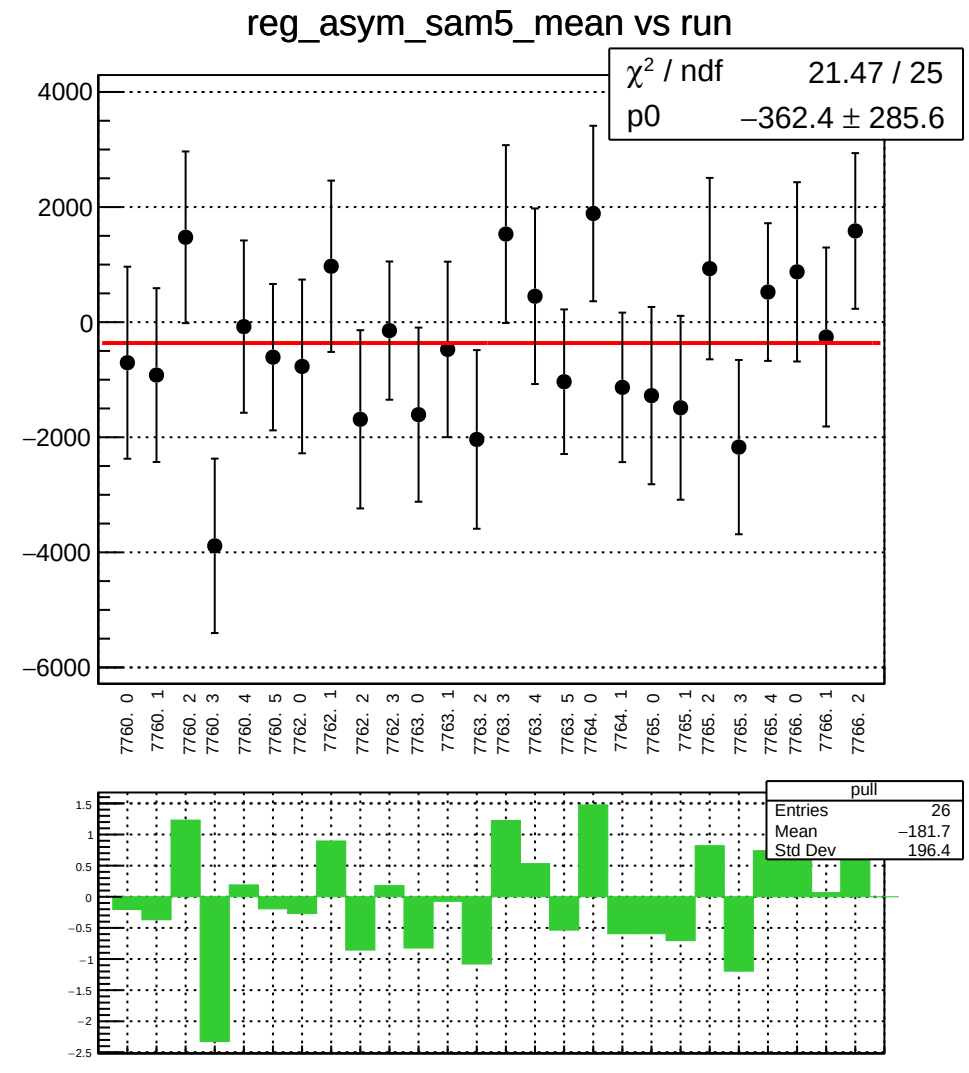

pull1D
Entries 26
Mean −0.02002
Std Dev 0.9359
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

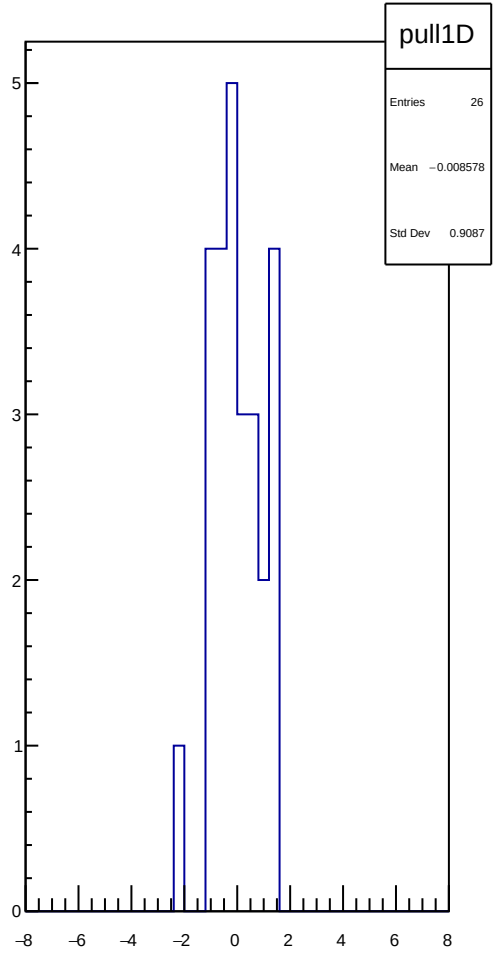

reg_asym_sam4_rms vs run
χ² / ndf 5194 / 25
p0 375.4 ± 0.5244
500
480
460
440
420
400
380
360
340
320
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

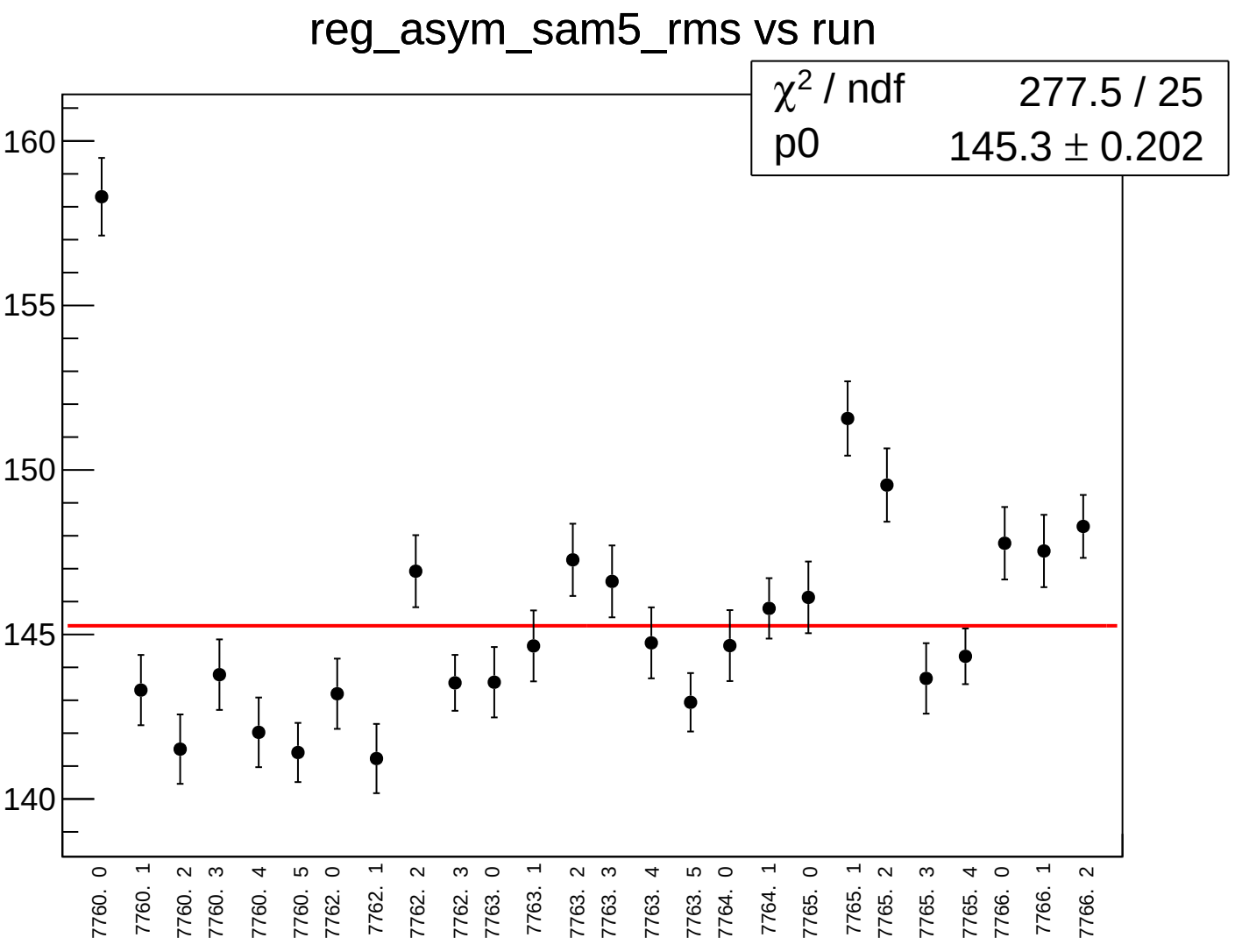

asym_sam4_correction_mean vs run
×10^3
χ² / ndf 32.27 / 25
p0 −1.847e+04 ± 9314
150
100
50
0
−50
−100
−150
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 1256
Std Dev 1248
2
1.5
1
0.5
0
−0.5
−1
−1.5

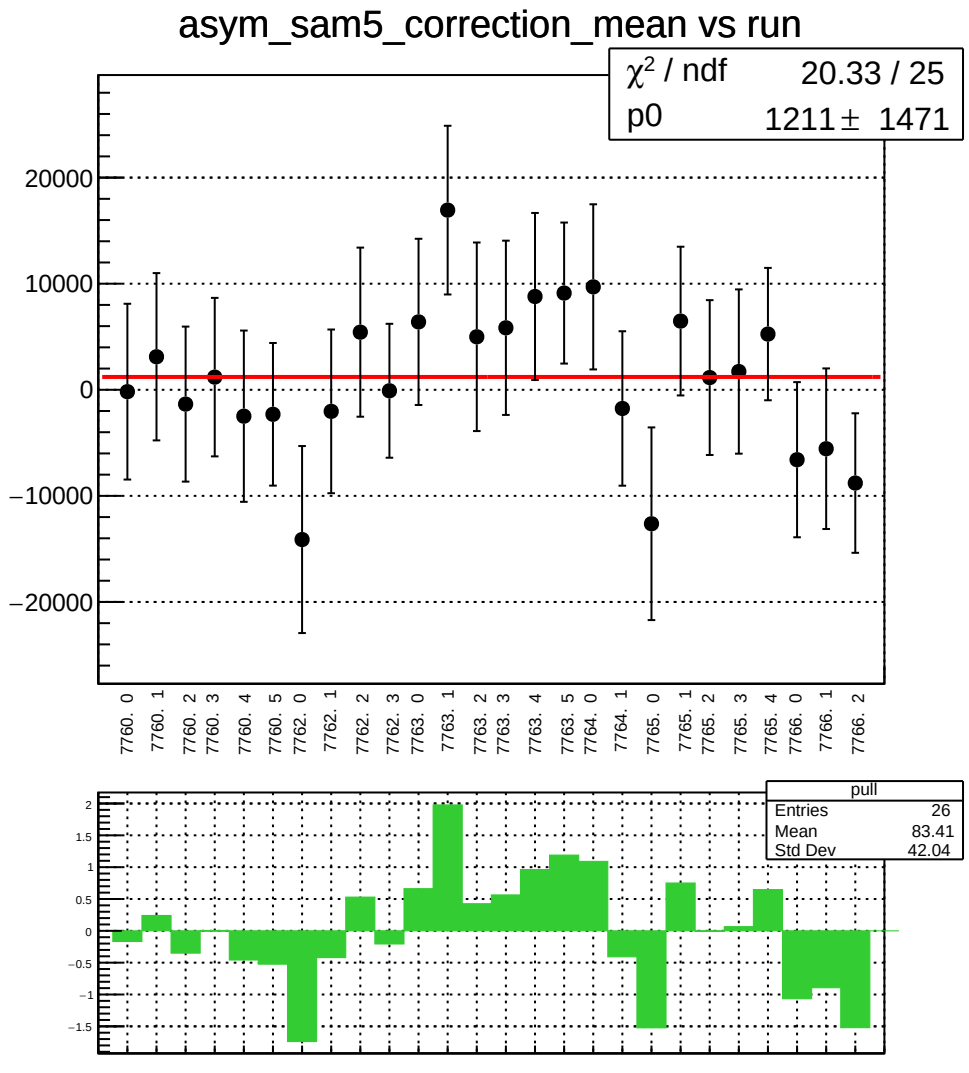

pull1D
Entries 26
Mean −0.002231
Std Dev 1.114
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

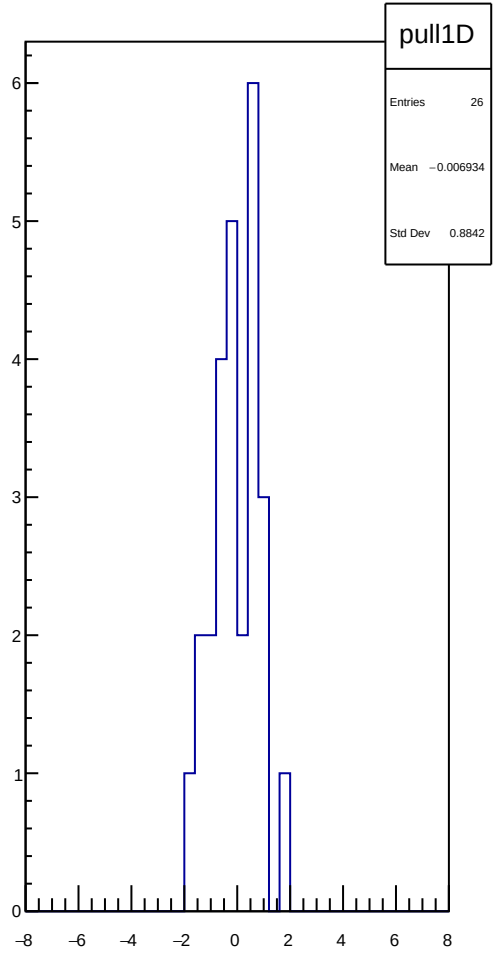

asym_sam4_correction_rms vs run
χ² / ndf 818 / 25
p0 4734 ± 6.586
5300
5200
5100
5000
4900
4800
4700
4600
4500
4400
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

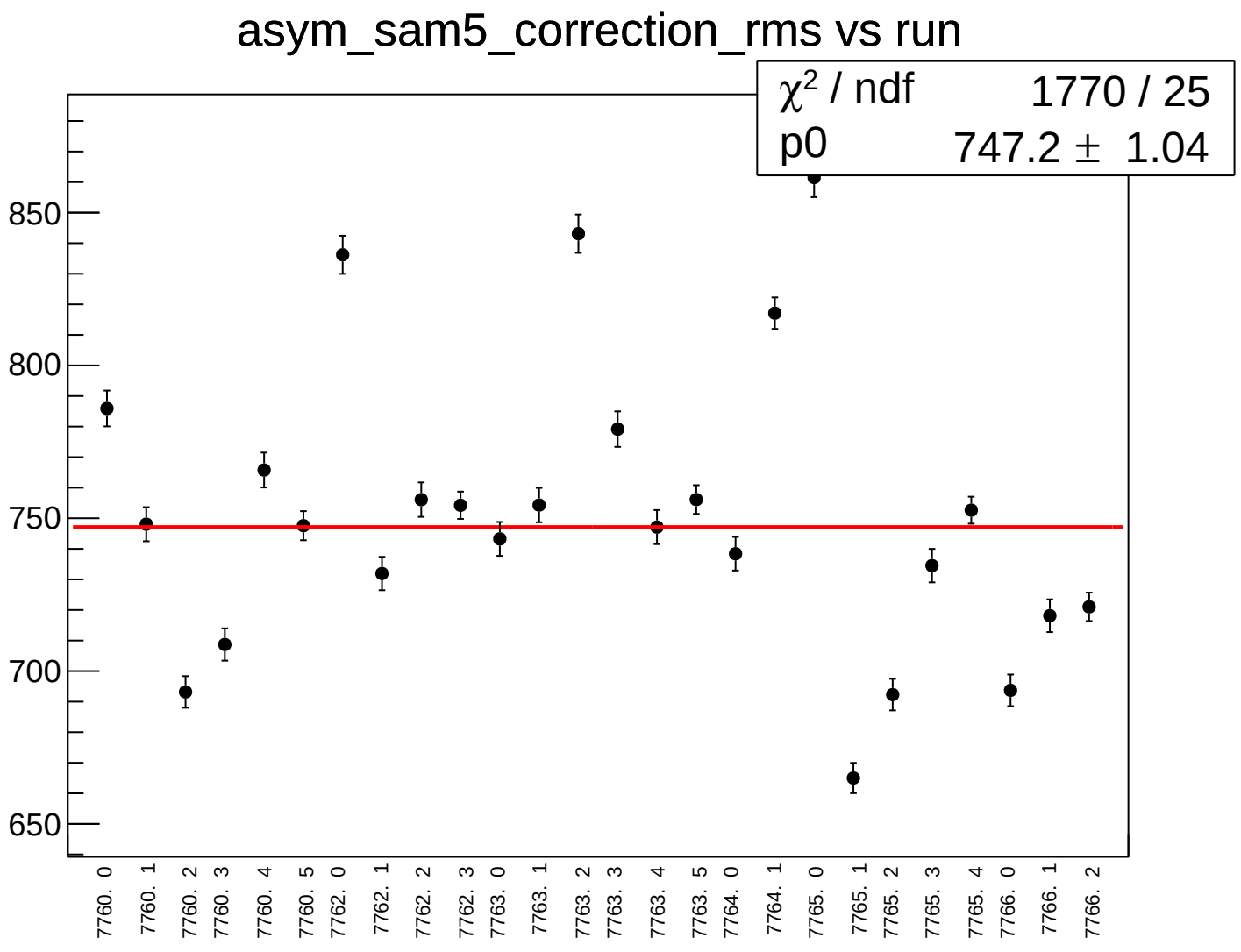

reg_asym_sam5_mean vs run
χ² / ndf 21.47 / 25
p0 −362.4 ± 285.6
4000
2000
0
−2000
−4000
−6000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −181.7
Std Dev 196.4
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

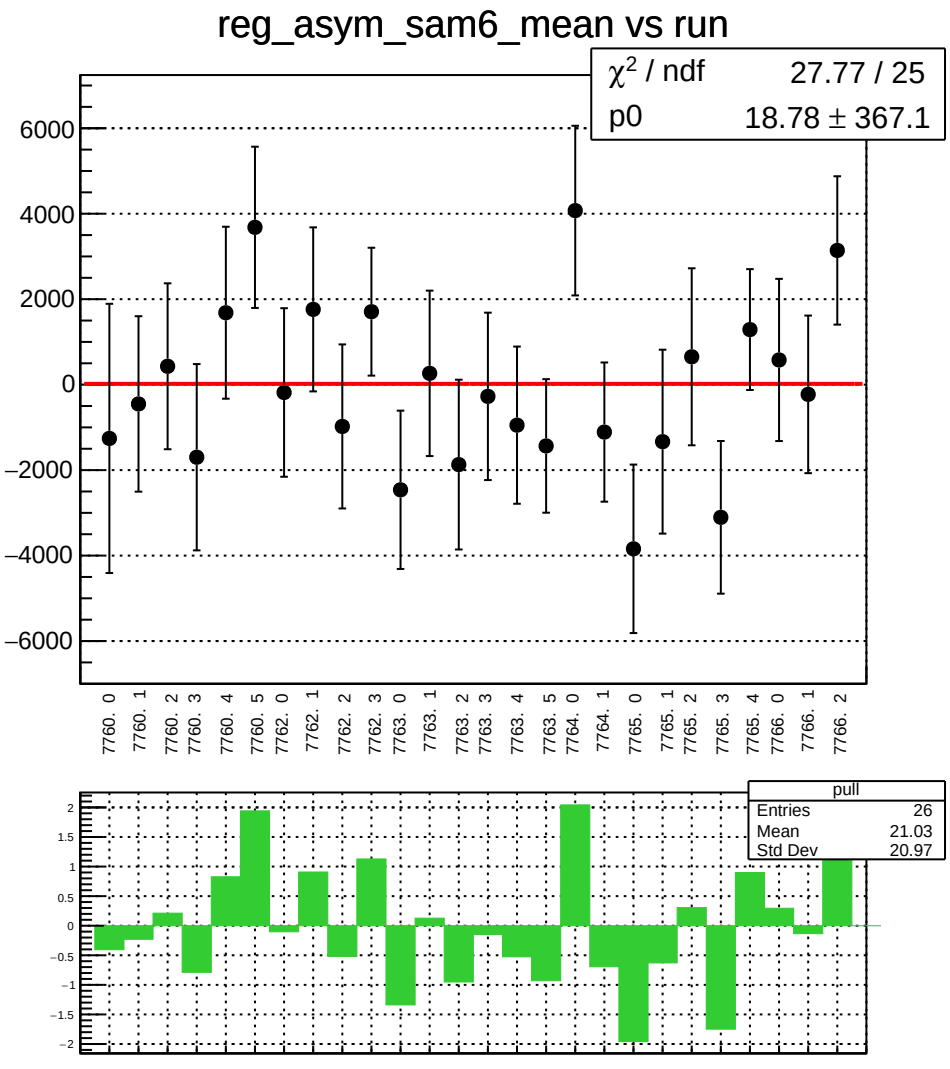

pull1D
Entries 26
Mean −0.008578
Std Dev 0.9087
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

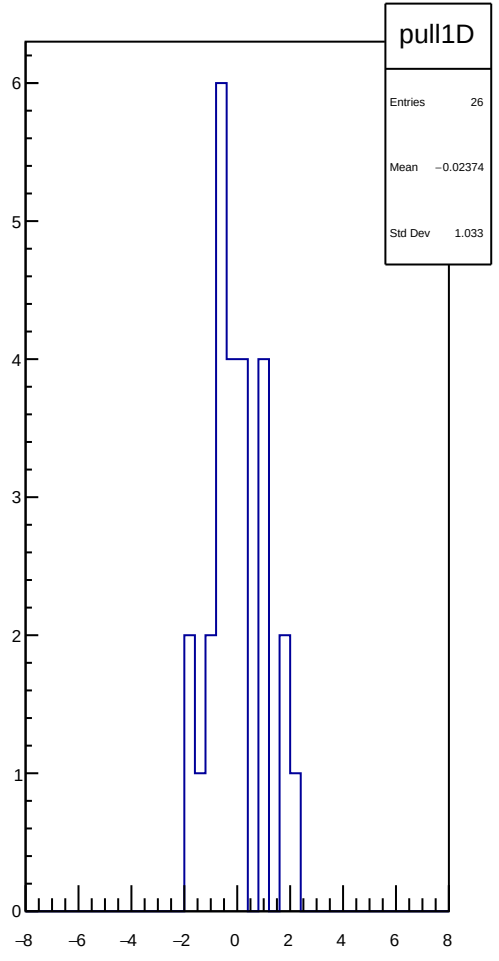

reg_asym_sam5_rms vs run
χ² / ndf 277.5 / 25
p0 145.3 ± 0.202
160
155
150
145
140
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

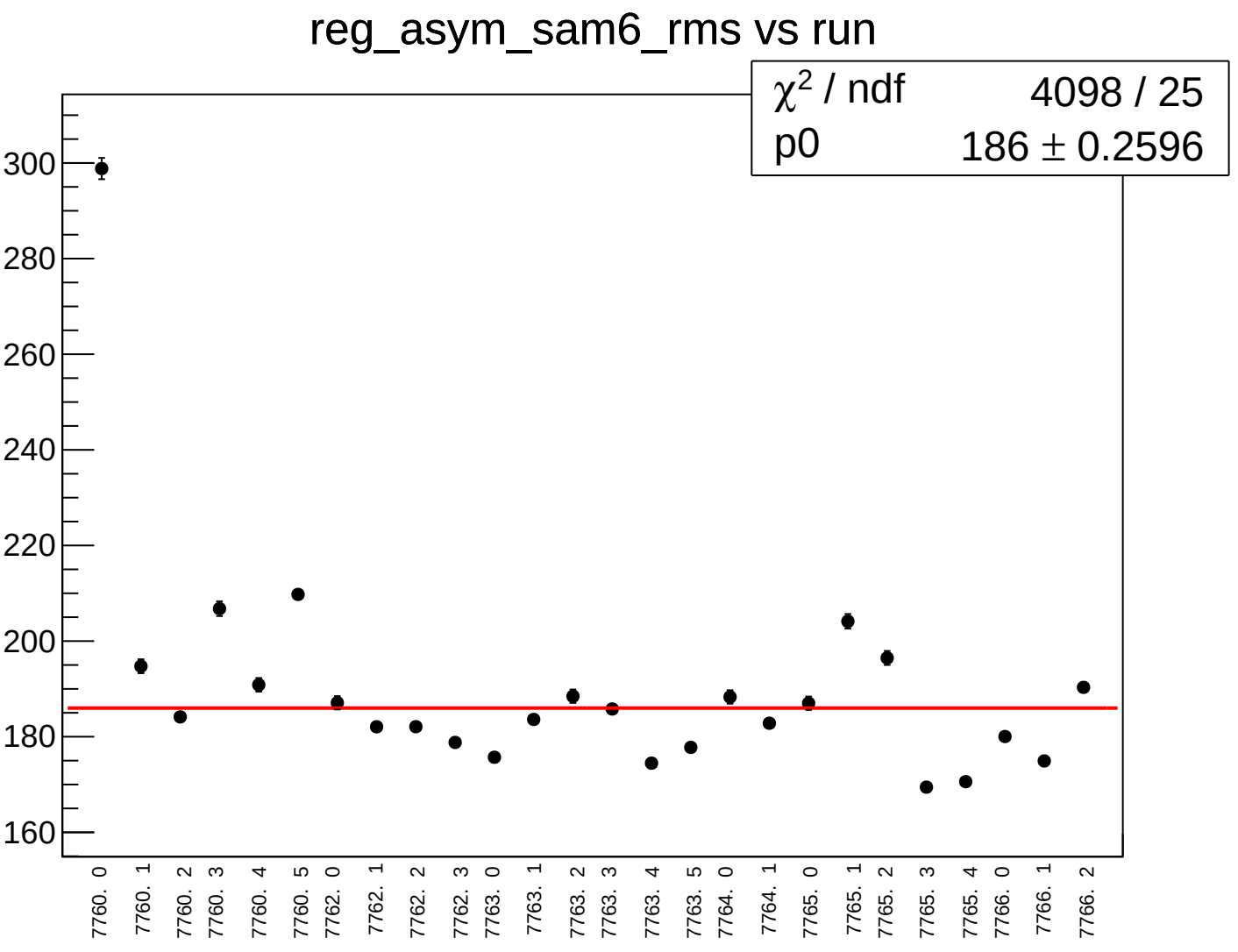

asym_sam5_correction_mean vs run
χ² / ndf 20.33 / 25
p0 1211 ± 1471
20000
10000
0
−10000
−20000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 83.41
Std Dev 42.04
2
1.5
1
0.5
0
−0.5
−1
−1.5

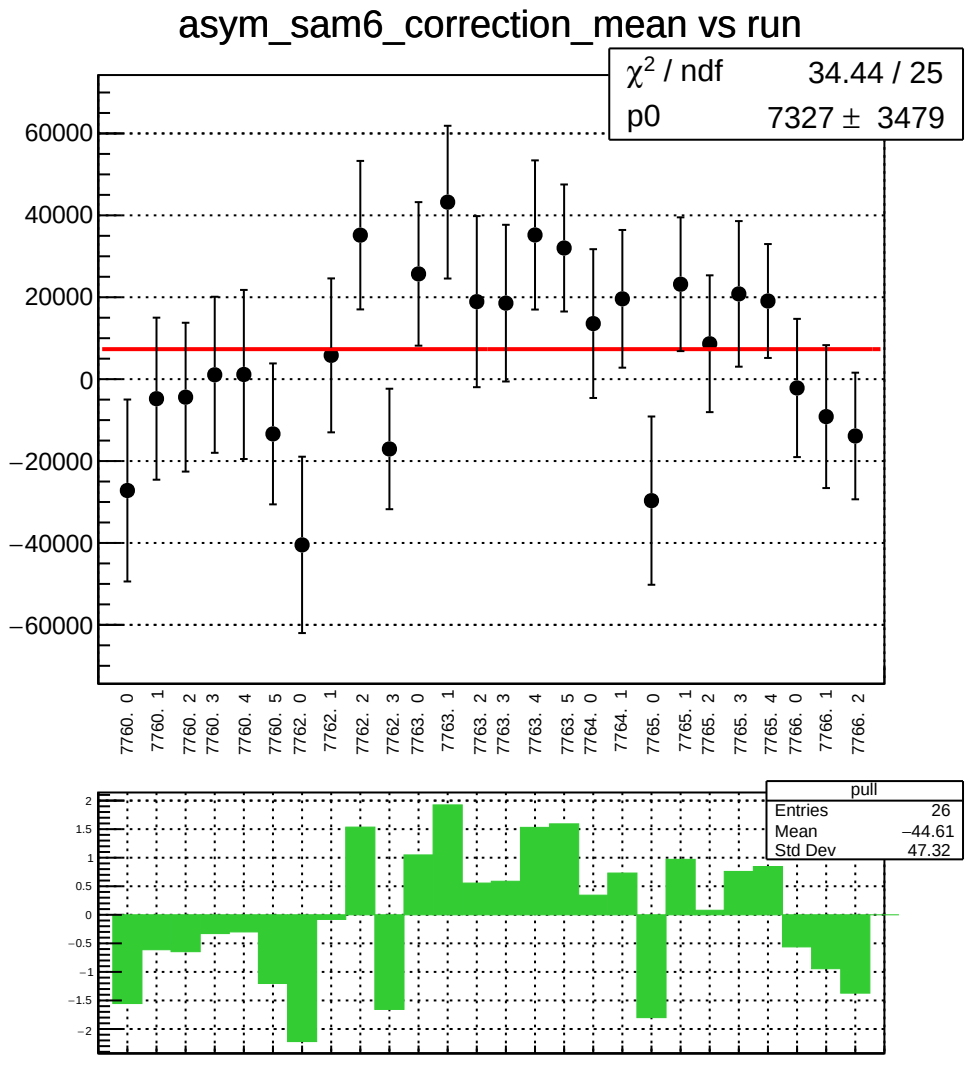

pull1D
Entries 26
Mean −0.006934
Std Dev 0.8842
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

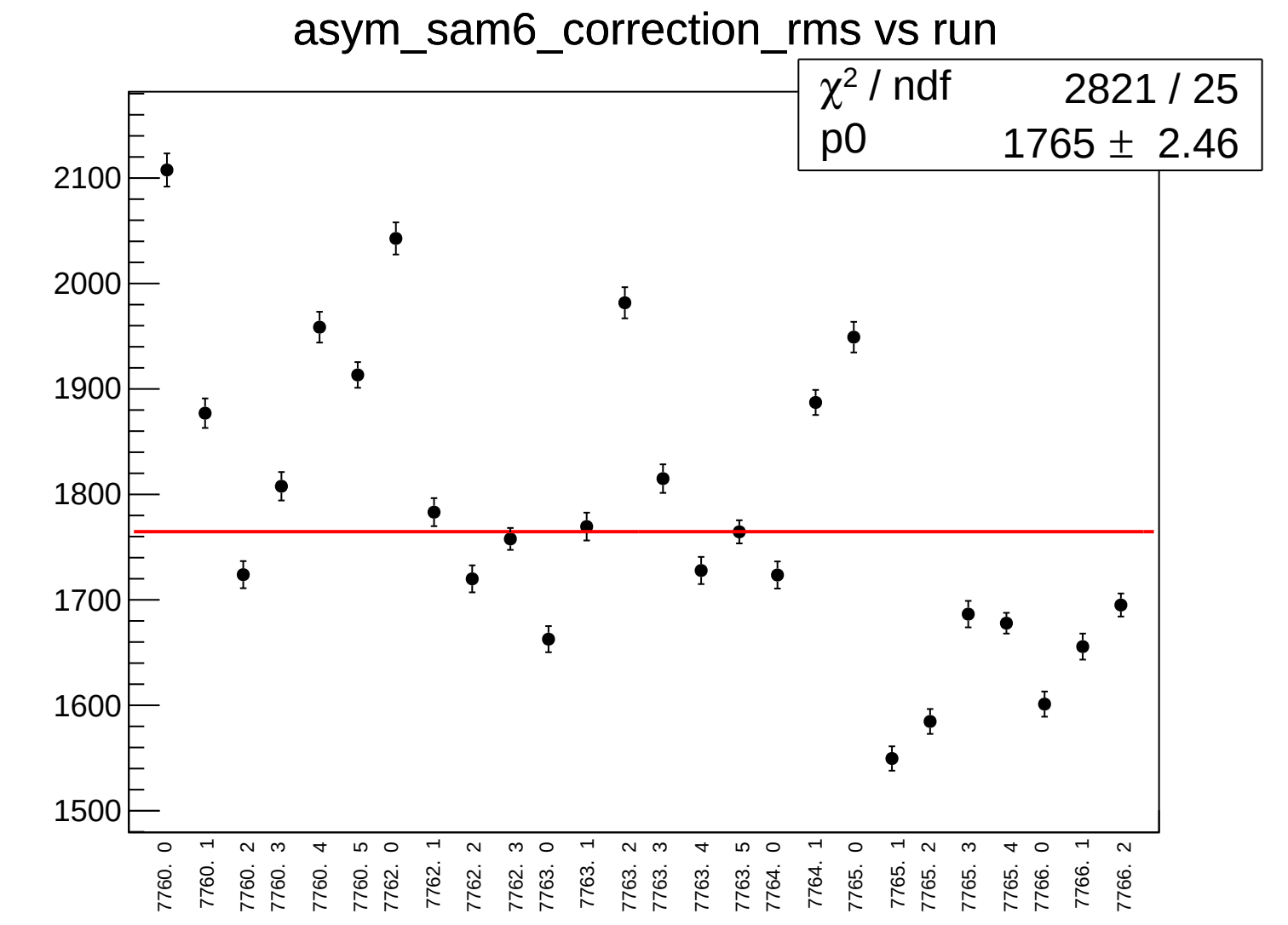

asym_sam5_correction_rms vs run
χ² / ndf 1770 / 25
p0 747.2 ± 1.04
850
800
750
700
650
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

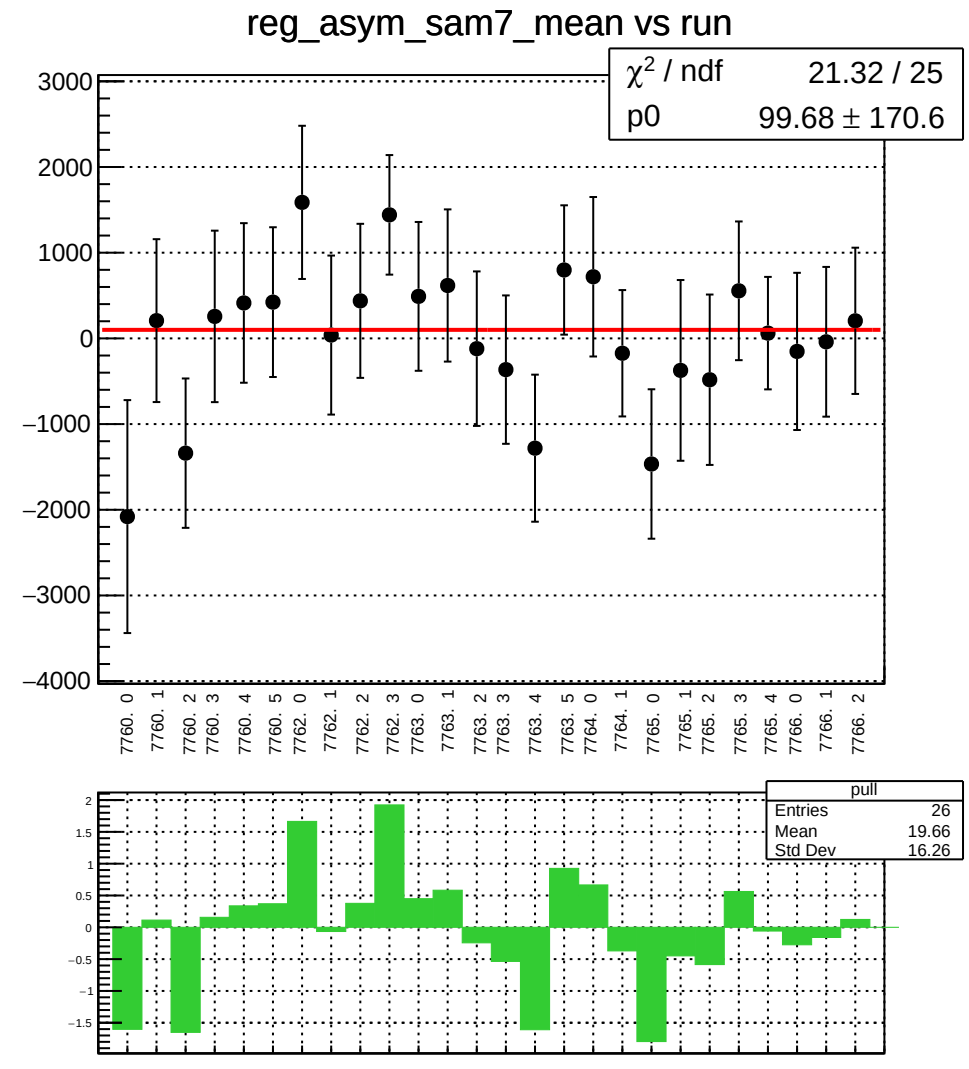

reg_asym_sam6_mean vs run
χ² / ndf 27.77 / 25
p0 18.78 ± 367.1
6000
4000
2000
0
−2000
−4000
−6000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 21.03
Std Dev 20.97
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

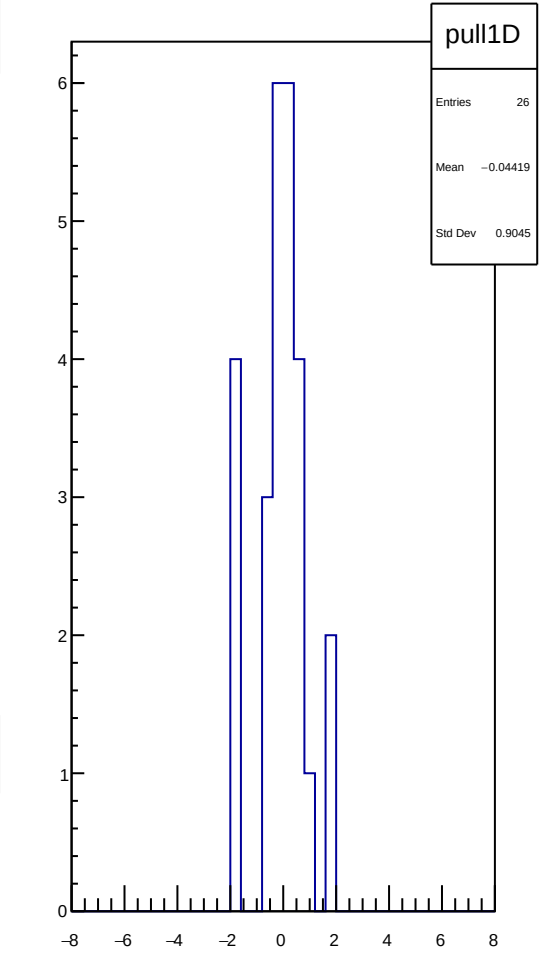

pull1D
Entries 26
Mean −0.02374
Std Dev 1.033
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

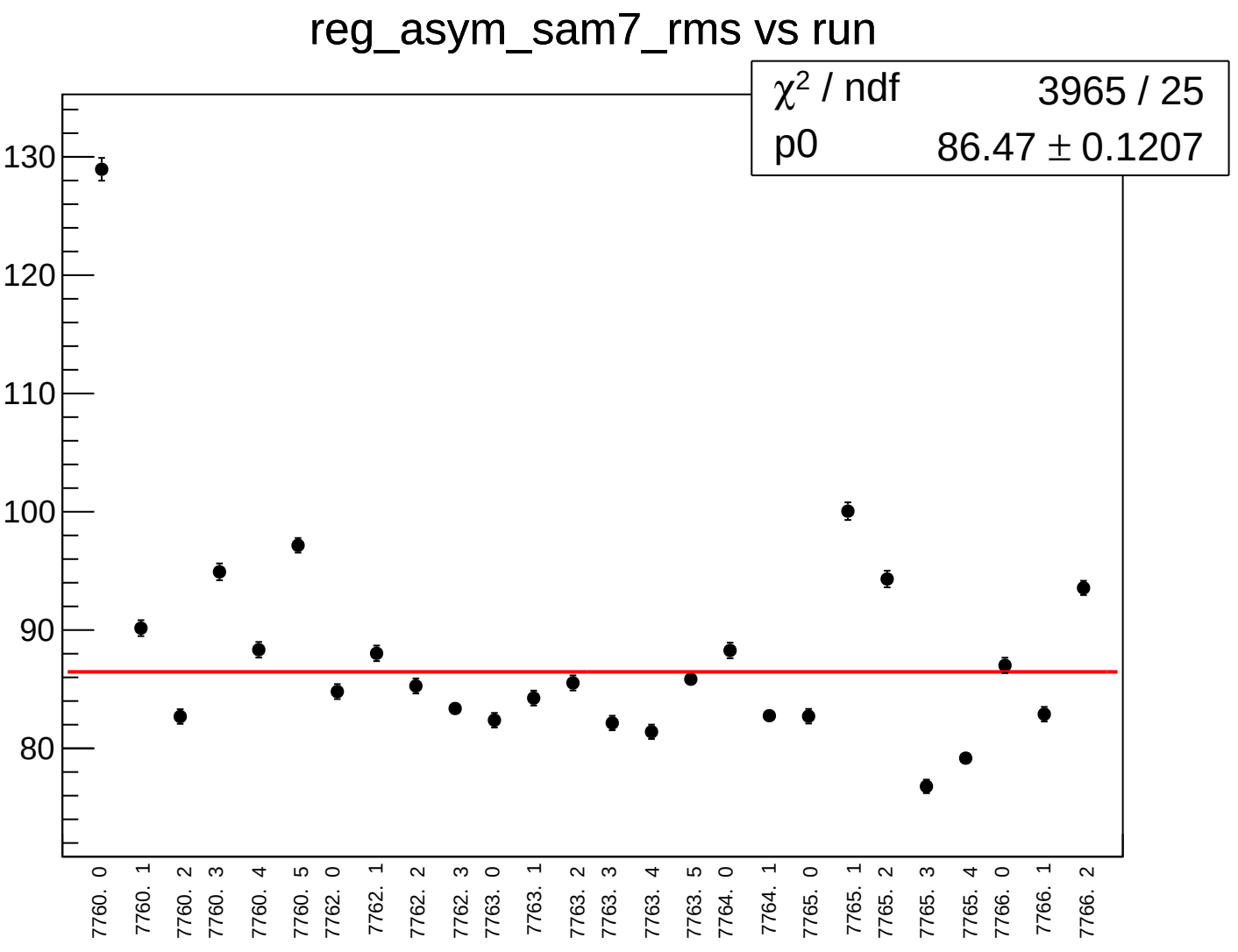

reg_asym_sam6_rms vs run
χ² / ndf 4098 / 25
p0 186 ± 0.2596
300
280
260
240
220
200
180
160
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

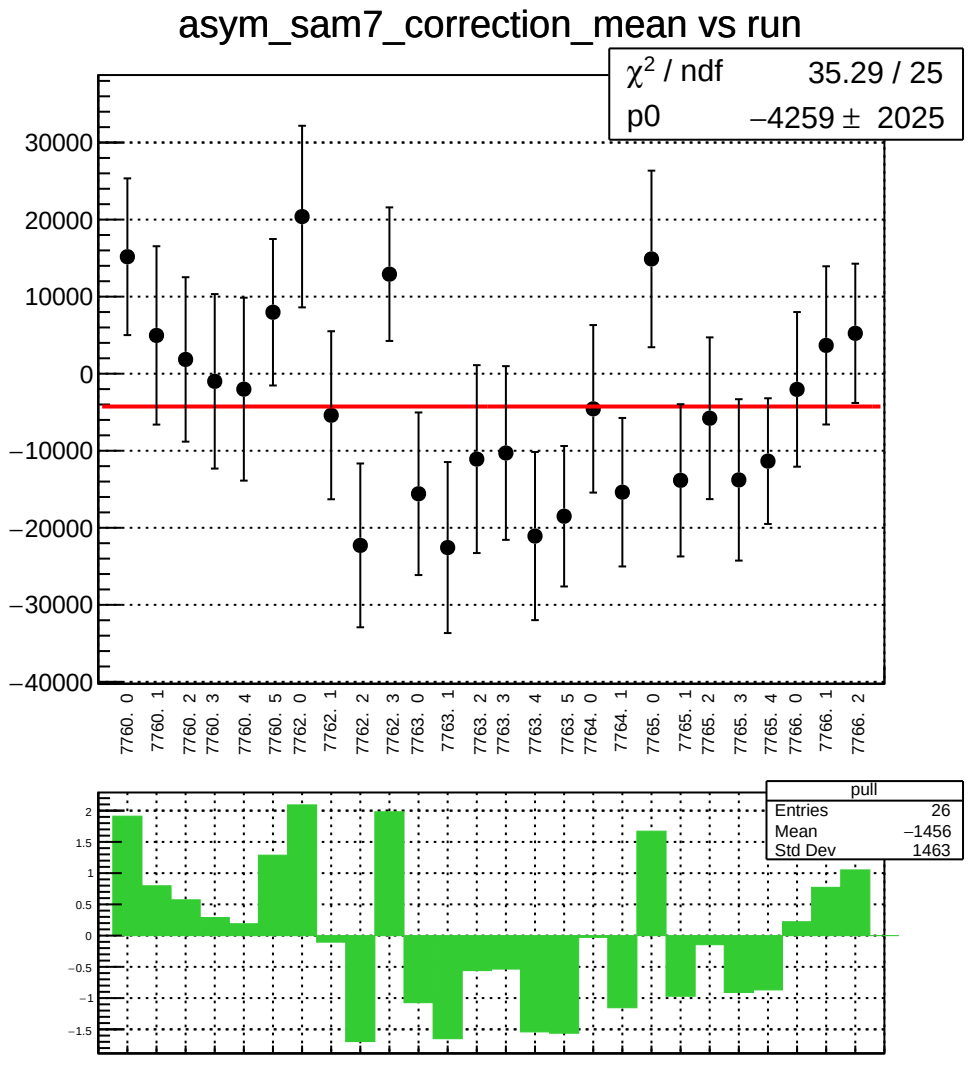

asym_sam6_correction_mean vs run
χ² / ndf 34.44 / 25
p0 7327 ± 3479
60000
40000
20000
0
−20000
−40000
−60000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −44.61
Std Dev 47.32
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 26
Mean −0.02974
Std Dev 1.151
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

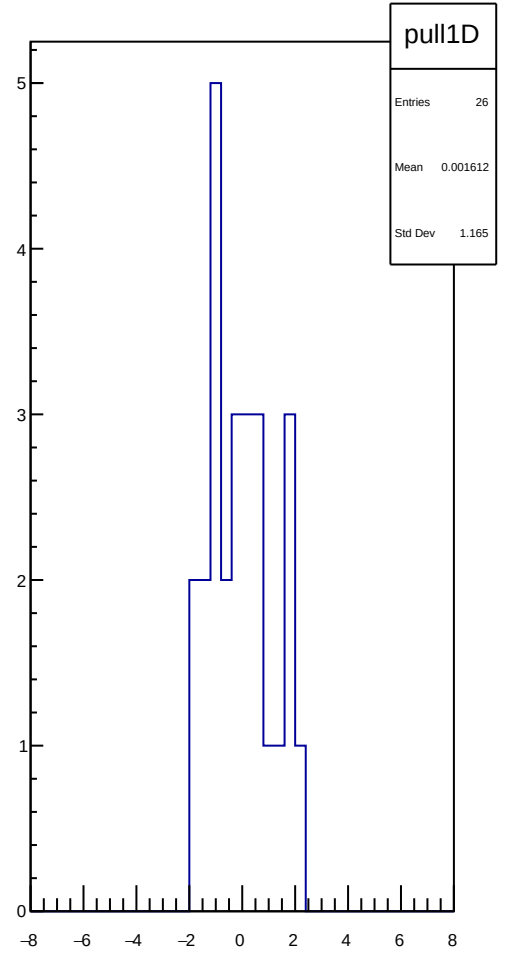

asym_sam6_correction_rms vs run
χ² / ndf 2821 / 25
p0 1765 ± 2.46
2100
2000
1900
1800
1700
1600
1500
17760. 0
17760. 1
17760. 2
17760. 3
17760. 4
17760. 5
17762. 0
17762. 1
17762. 2
17762. 3
17763. 0
17763. 1
17763. 2
17763. 3
17763. 4
17763. 5
17764. 0
17764. 1
17765. 0
17765. 1
17765. 2
17765. 3
17765. 4
17766. 0
17766. 1
17766. 2

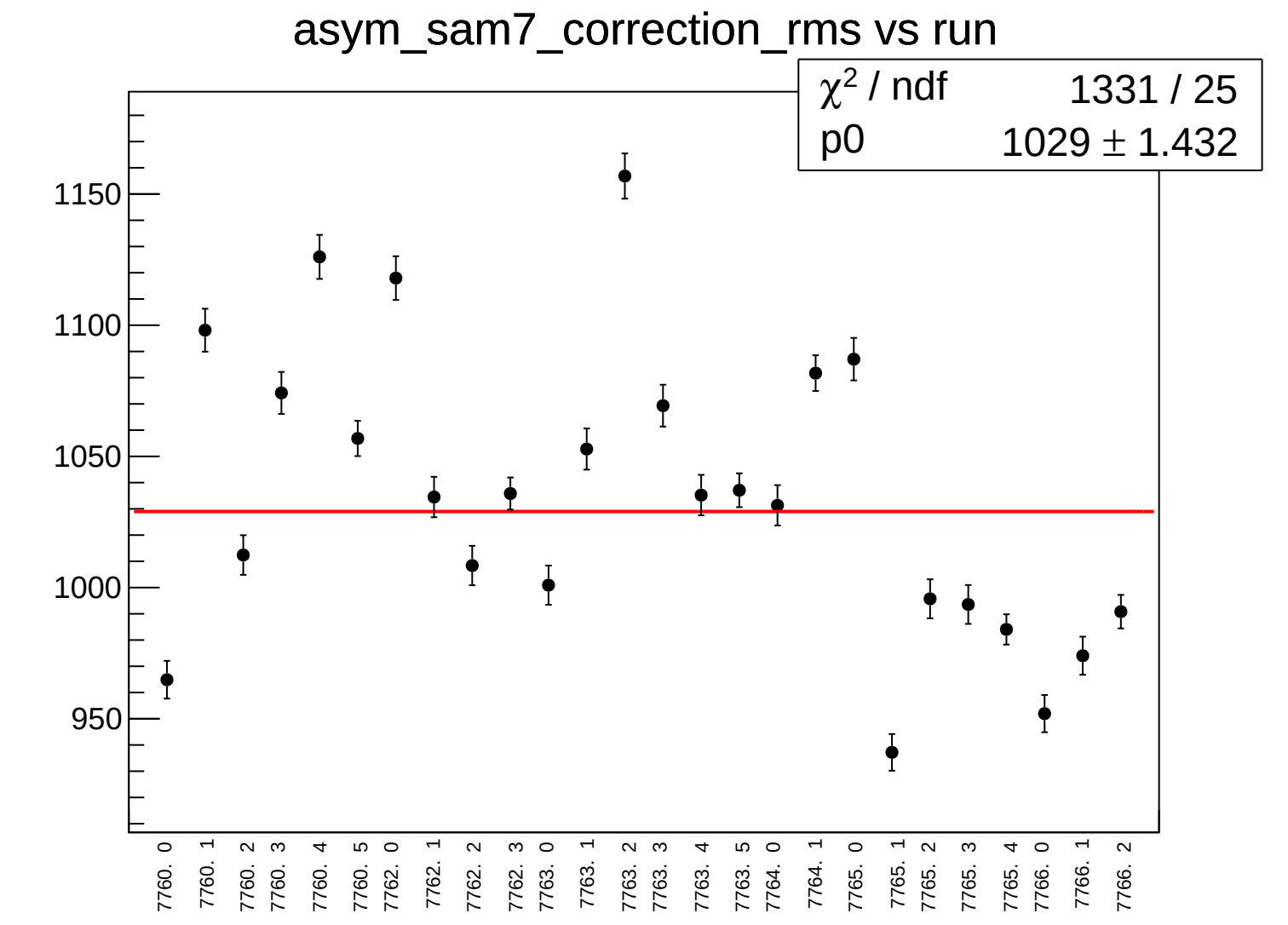

reg_asym_sam7_mean vs run
χ² / ndf 21.32 / 25
p0 99.68 ± 170.6
3000
2000
1000
0
−1000
−2000
−3000
−4000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 19.66
Std Dev 16.26
2
1.5
1
0.5
0
−0.5
−1
−1.5

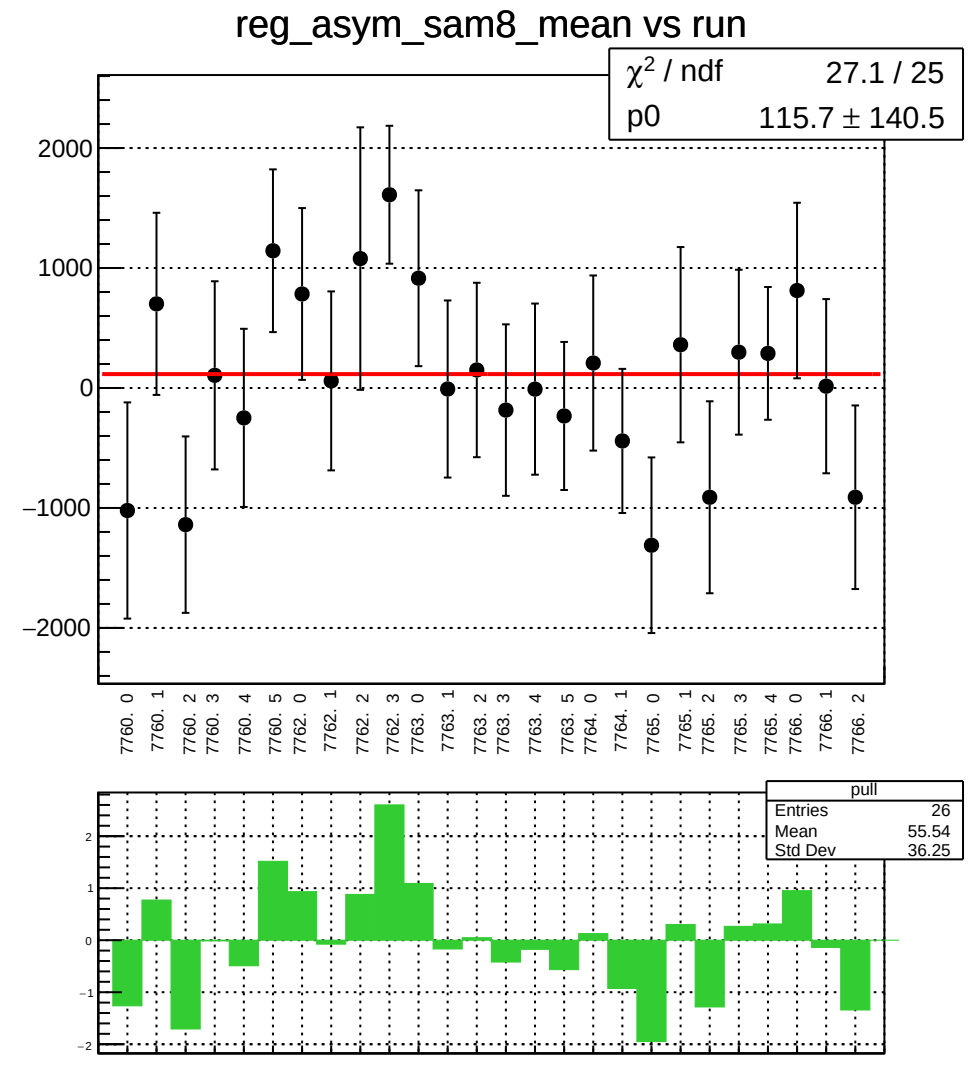

pull1D
Entries 26
Mean −0.04419
Std Dev 0.9045
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

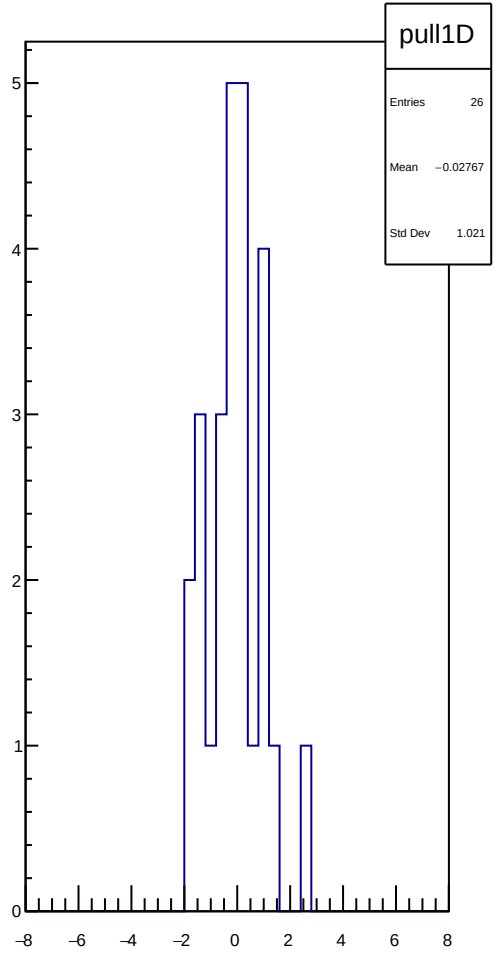

reg_asym_sam7_rms vs run
χ² / ndf 3965 / 25
p0 86.47 ± 0.1207
130
120
110
100
90
80
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

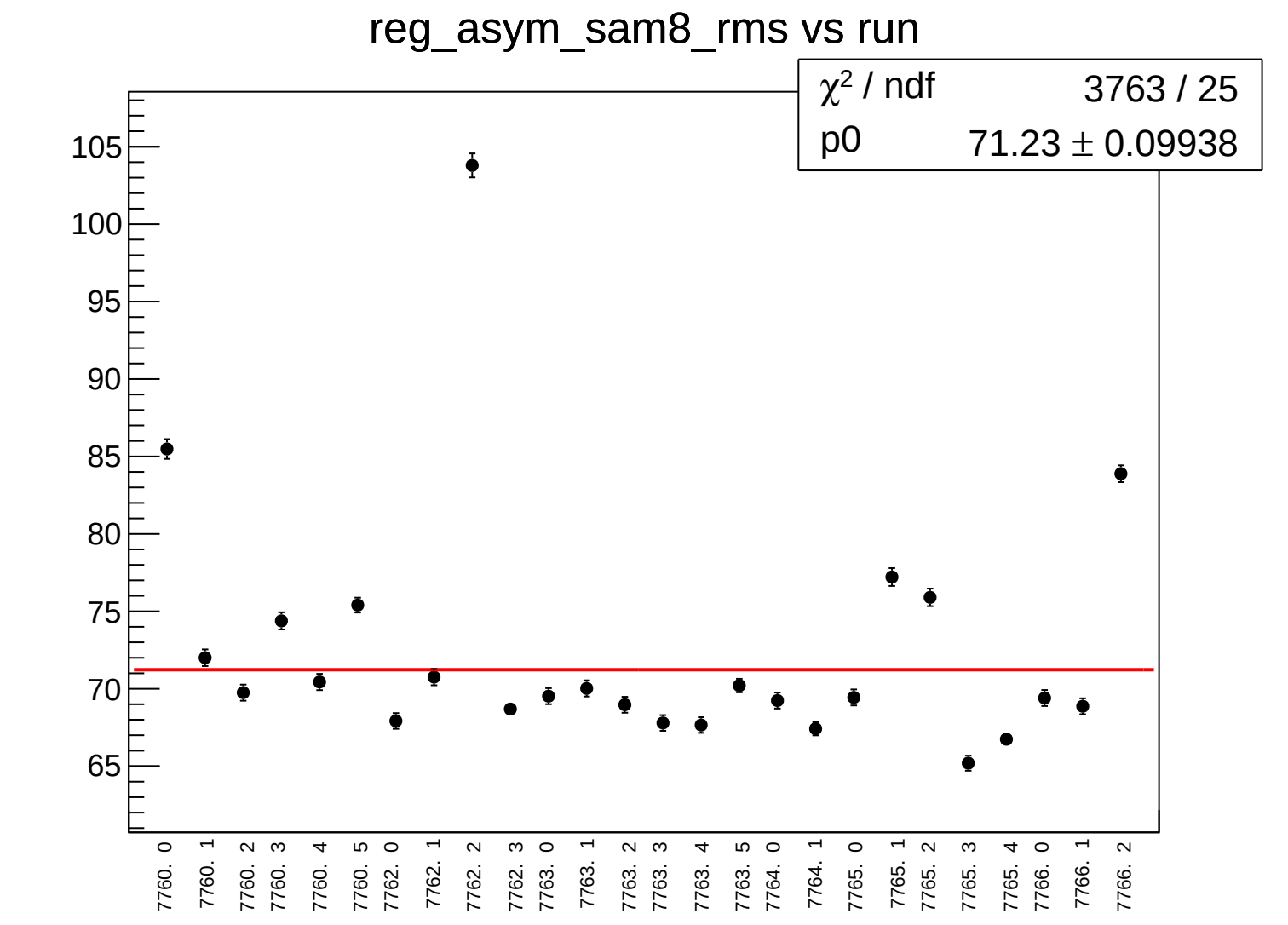

asym_sam7_correction_mean vs run
χ² / ndf 35.29 / 25
p0 −4259 ± 2025
30000
20000
10000
0
−10000
−20000
−30000
−40000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −1456
Std Dev 1463
2
1.5
1
0.5
0
−0.5
−1
−1.5

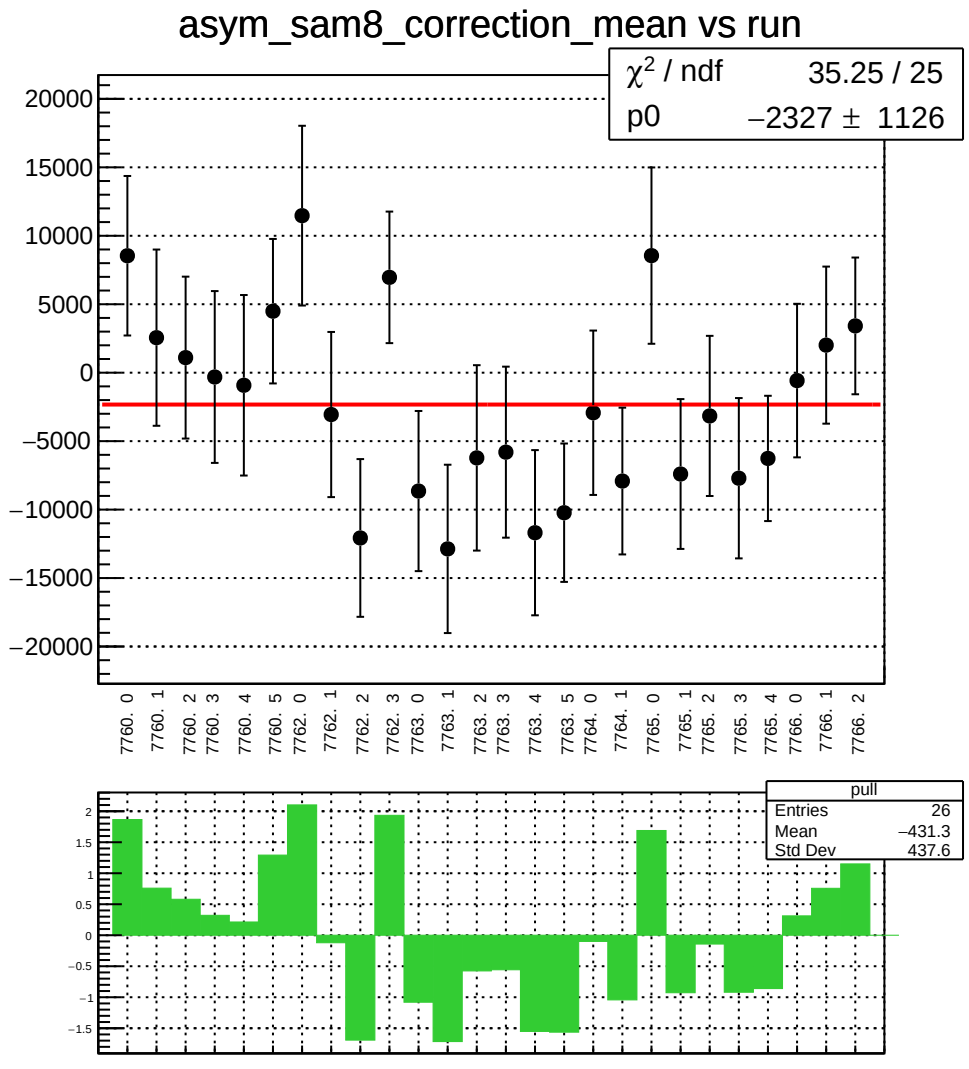

pull1D
Entries 26
Mean 0.001612
Std Dev 1.165
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

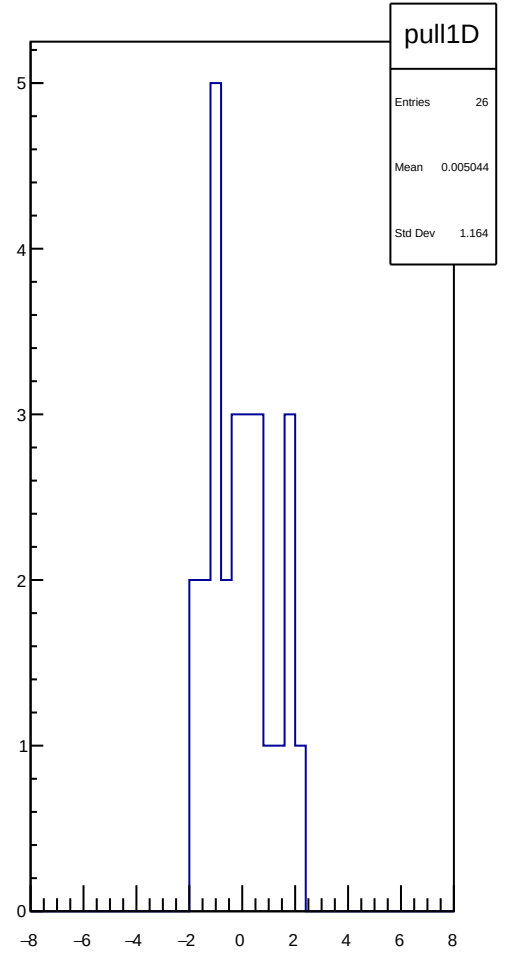

asym_sam7_correction_rms vs run
χ² / ndf 1331 / 25
p0 1029 ± 1.432
1150
1100
1050
1000
950
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

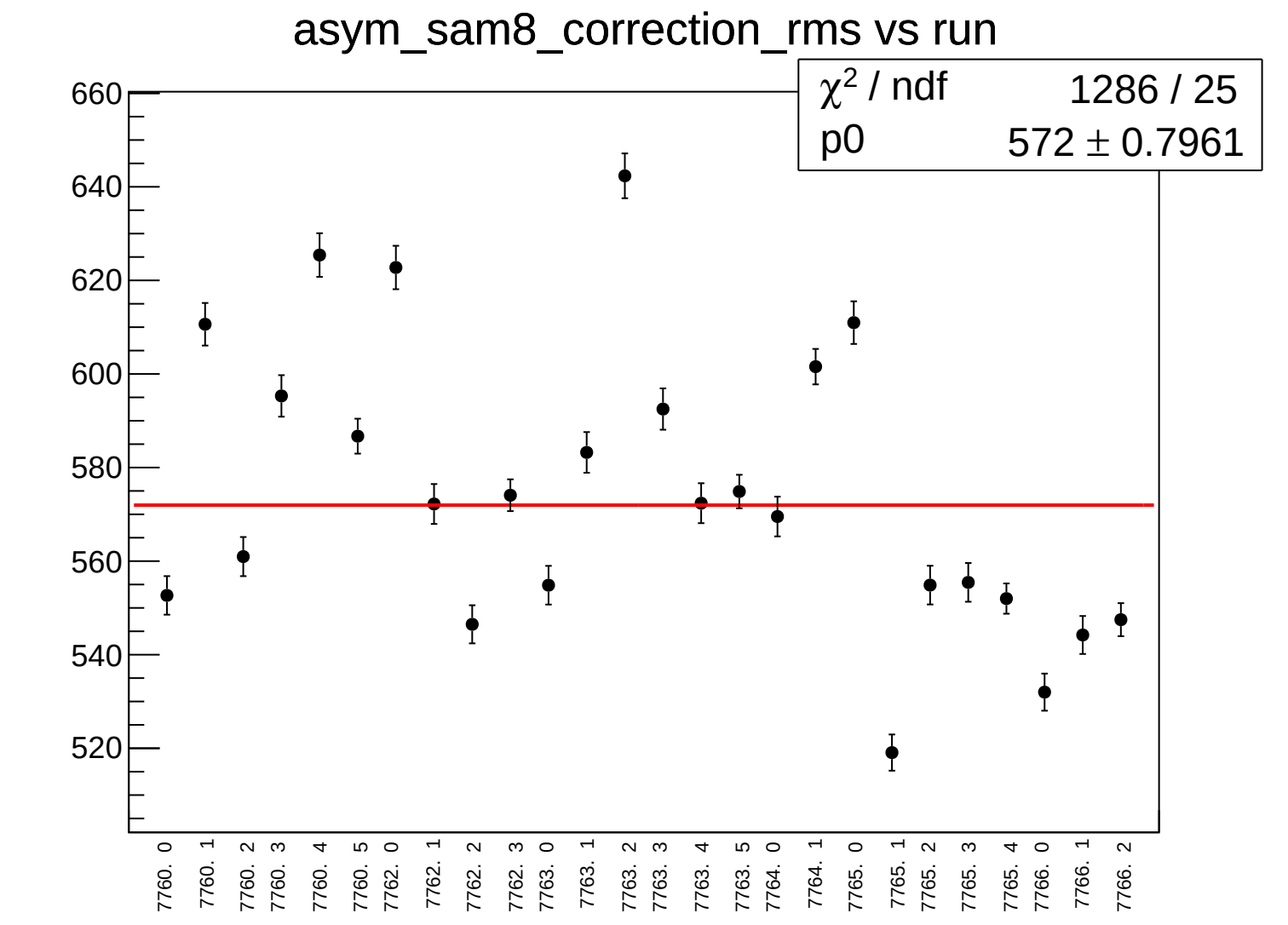

reg_asym_sam8_mean vs run
χ² / ndf 27.1 / 25
p0 115.7 ± 140.5
2000
1000
0
−1000
−2000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 55.54
Std Dev 36.25
2
1
0
−1
−2

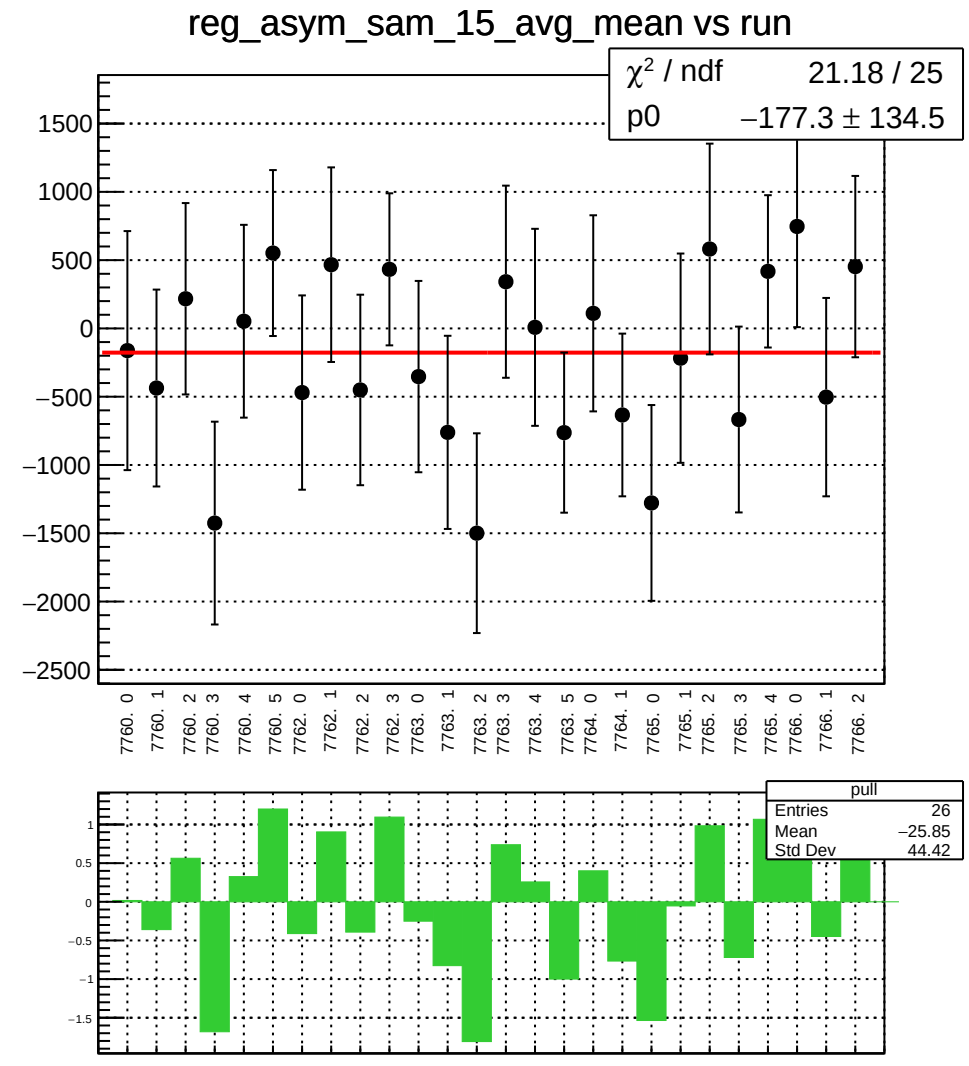

pull1D
Entries 26
Mean −0.02767
Std Dev 1.021
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

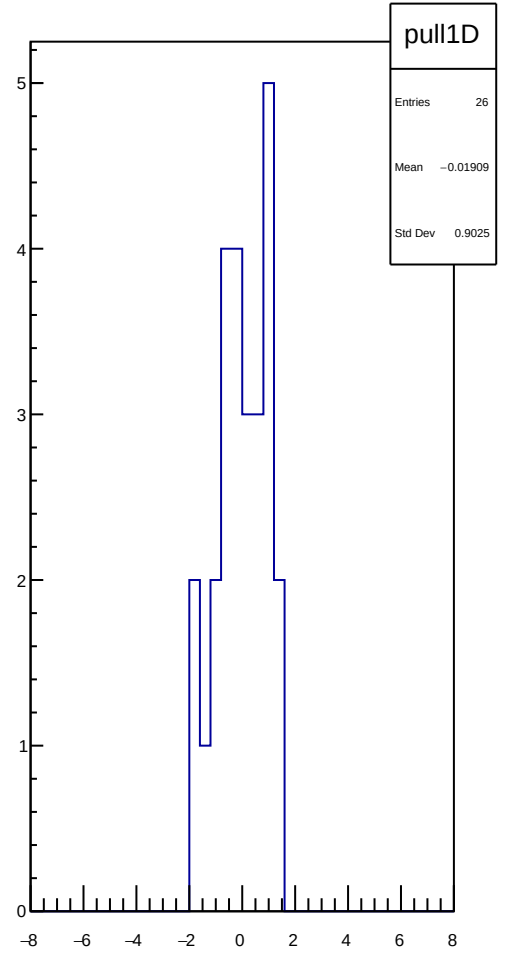

reg_asym_sam8_rms vs run
χ² / ndf 3763 / 25
p0 71.23 ± 0.09938
105
100
95
90
85
80
75
70
65
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

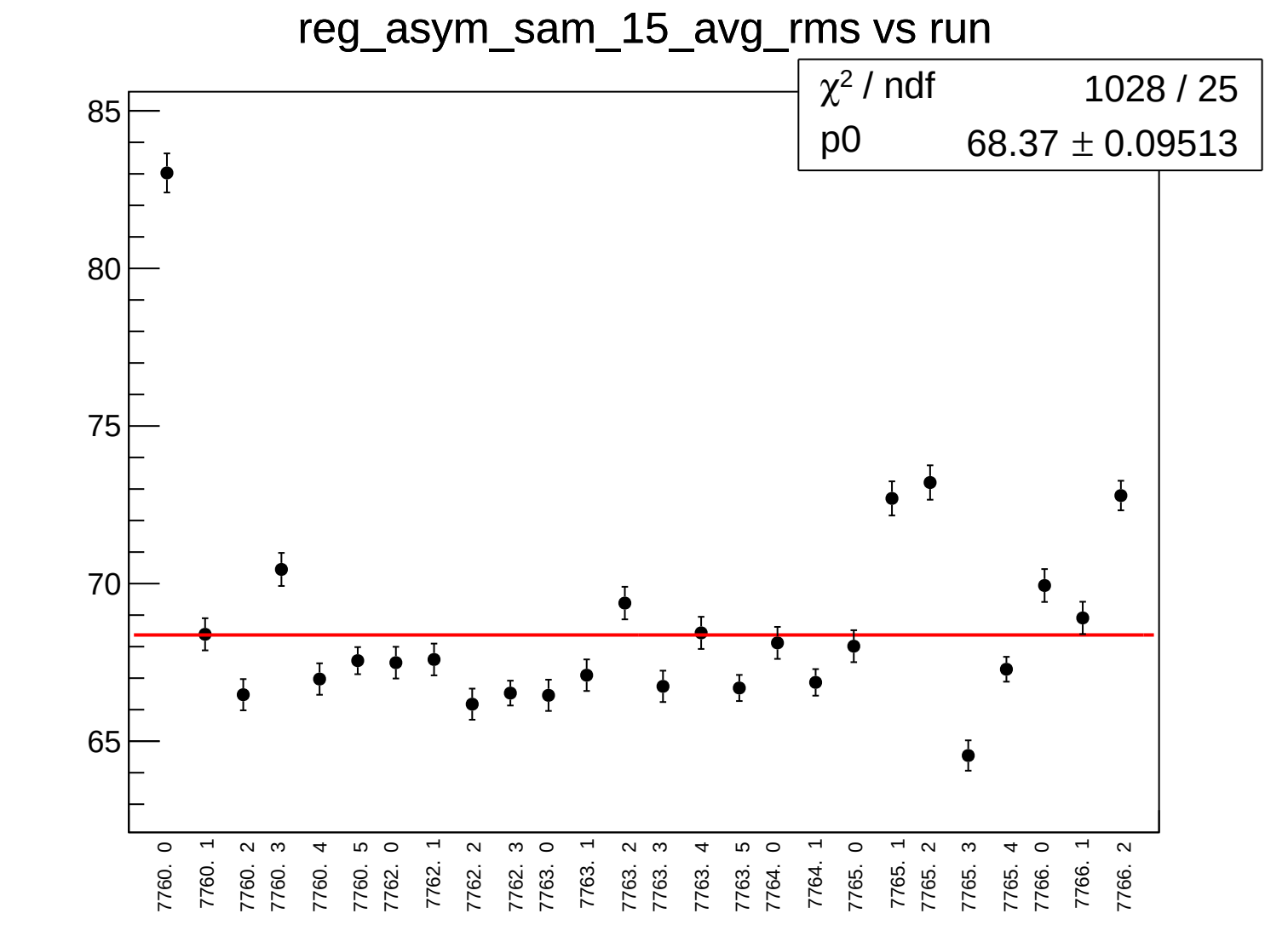

asym_sam8_correction_mean vs run
χ² / ndf 35.25 / 25
p0 −2327 ± 1126
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −431.3
Std Dev 437.6
2
1.5
1
0.5
0
−0.5
−1
−1.5

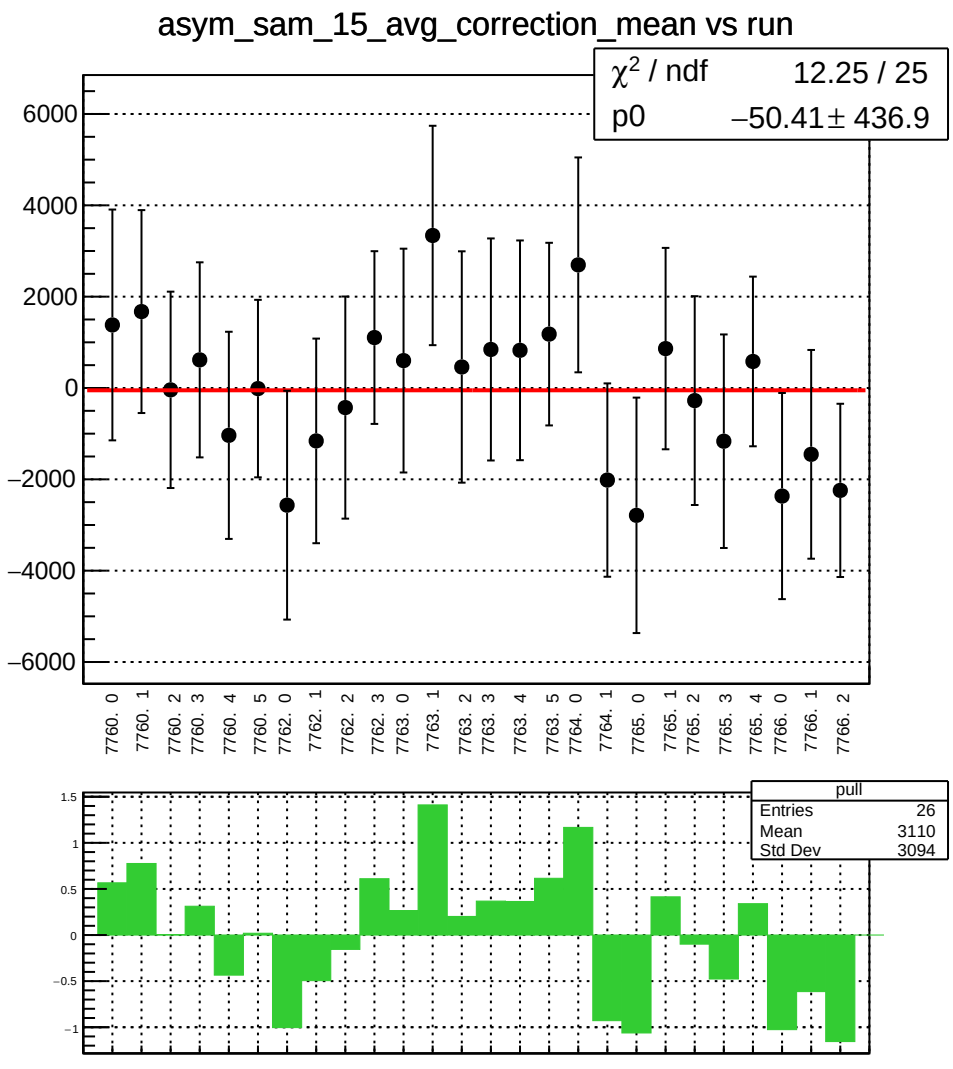

pull1D
Entries 26
Mean 0.005044
Std Dev 1.164
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

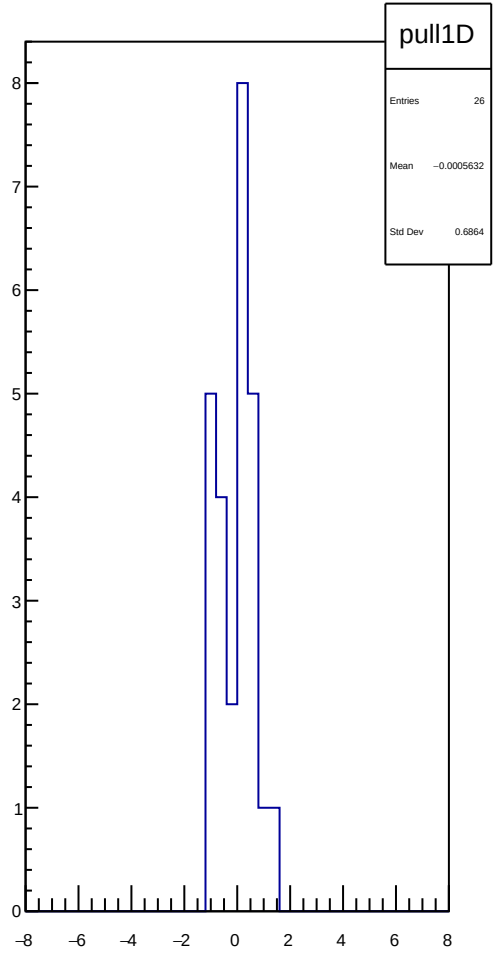

asym_sam8_correction_rms vs run
χ² / ndf 1286 / 25
p0 572 ± 0.7961
660
640
620
600
580
560
540
520
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

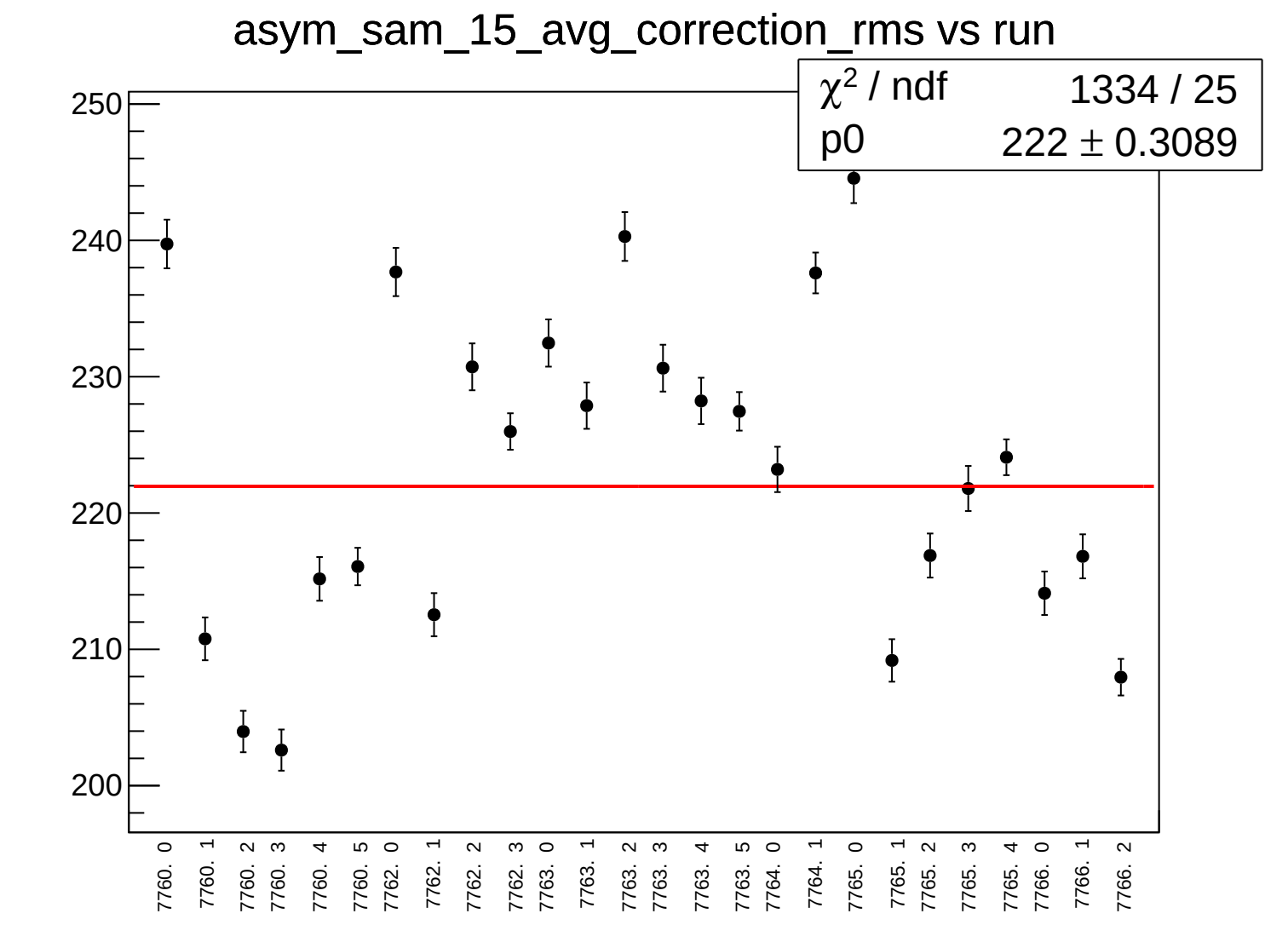

reg_asym_sam_15_avg_mean vs run
χ² / ndf 21.18 / 25
p0 −177.3 ± 134.5
1500
1000
500
0
−500
−1000
−1500
−2000
−2500
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −25.85
Std Dev 44.42
1
0.5
0
−0.5
−1
−1.5

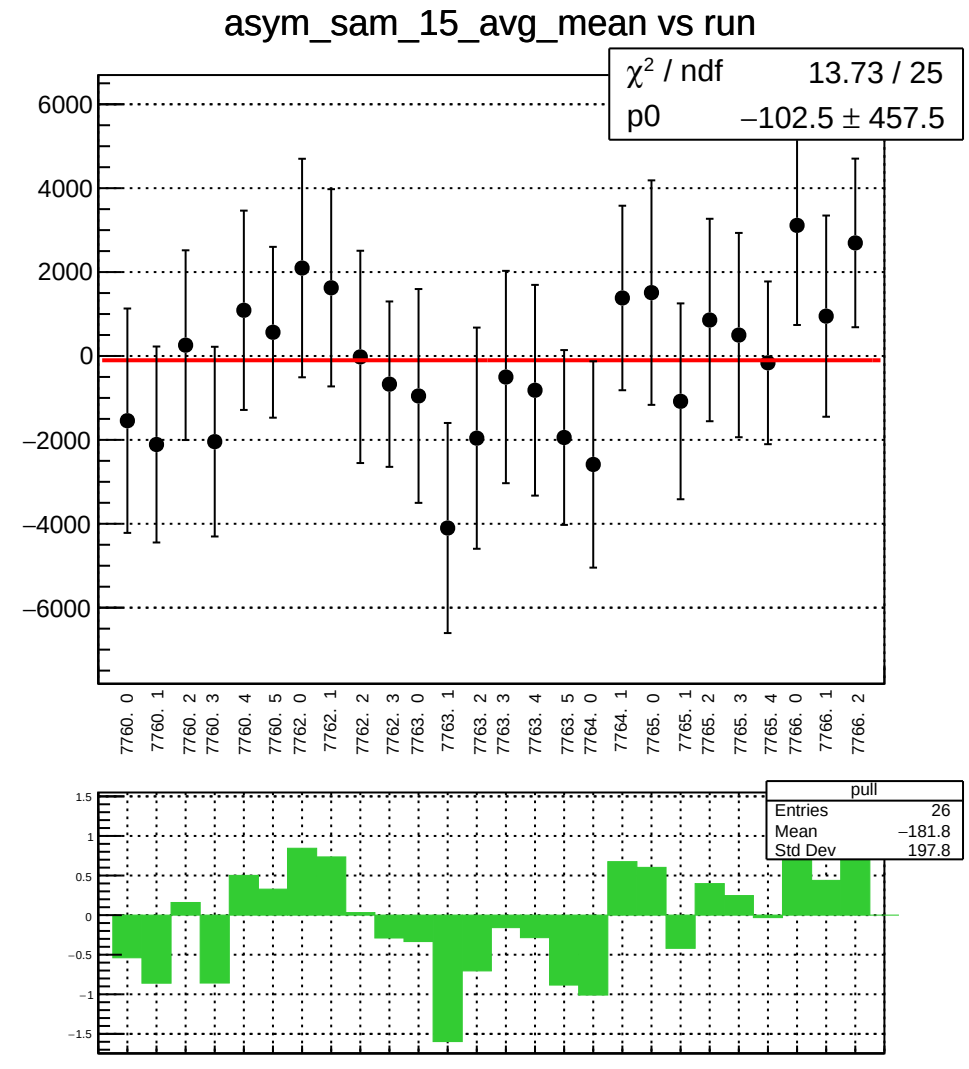

pull1D
Entries 26
Mean −0.01909
Std Dev 0.9025
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

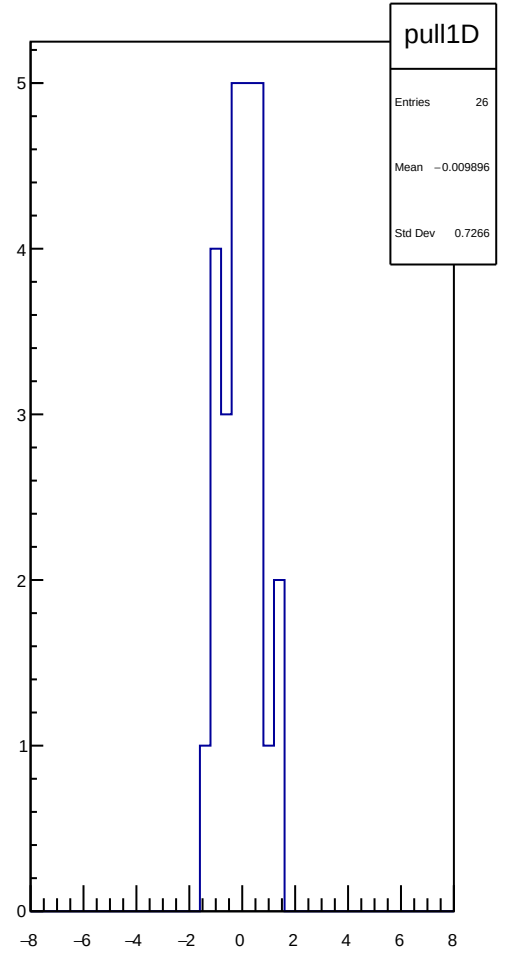

reg_asym_sam_15_avg_rms vs run
χ² / ndf 1028 / 25
p0 68.37 ± 0.09513
85
80
75
70
65
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

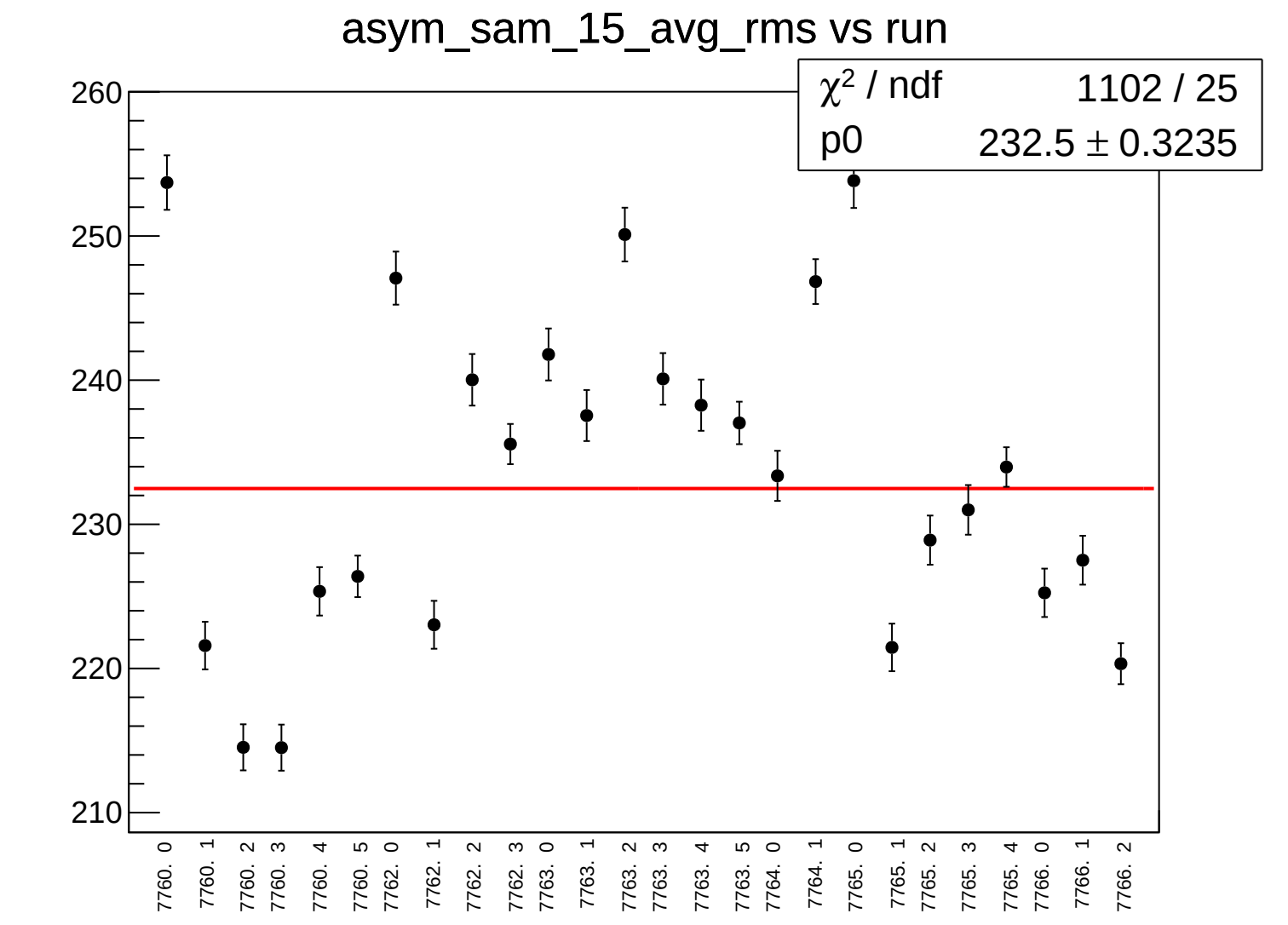

asym_sam_15_avg_correction_mean vs run
χ² / ndf 12.25 / 25
p0 −50.41 ± 436.9
6000
4000
2000
0
−2000
−4000
−6000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 3110
Std Dev 3094
1.5
1
0.5
0
−0.5
−1

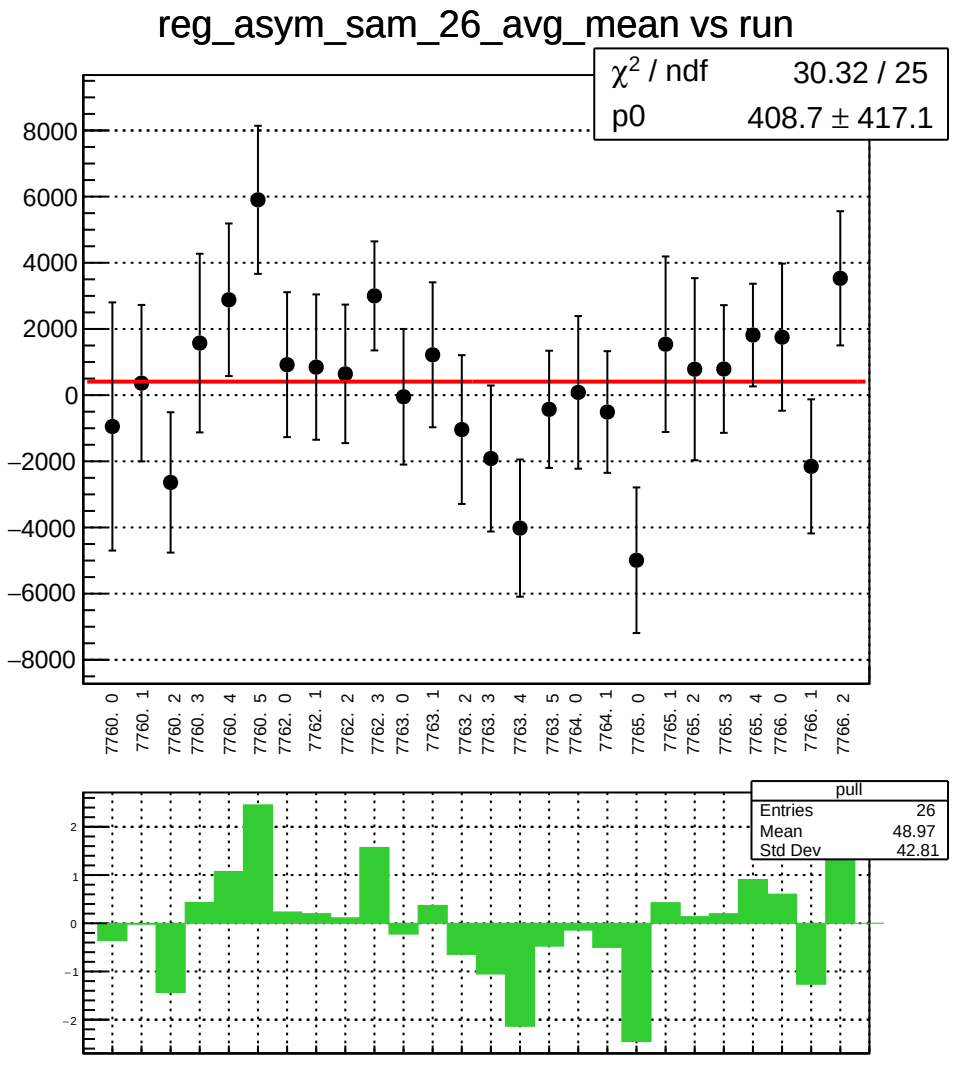

pull1D
Entries 26
Mean −0.0005632
Std Dev 0.6864
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

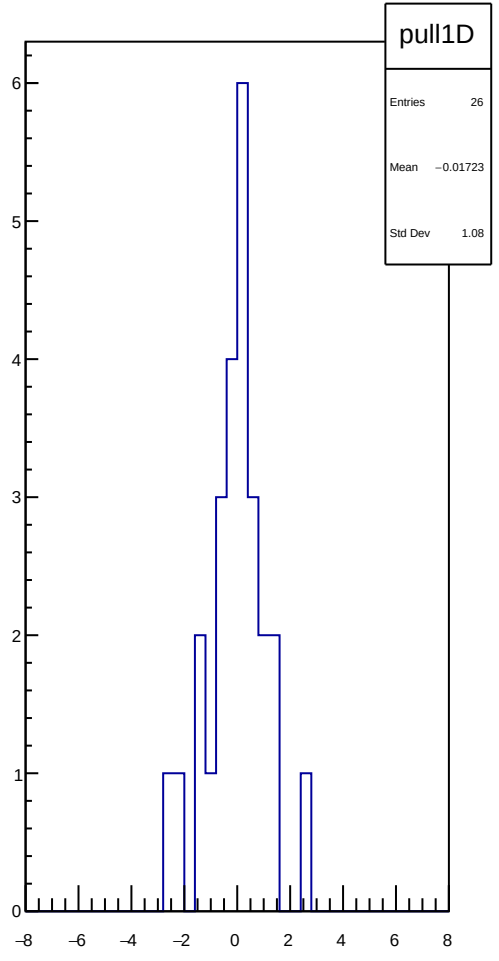

asym_sam_15_avg_correction_rms vs run
χ² / ndf 1334 / 25
p0 222 ± 0.3089
250
240
230
220
210
200
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

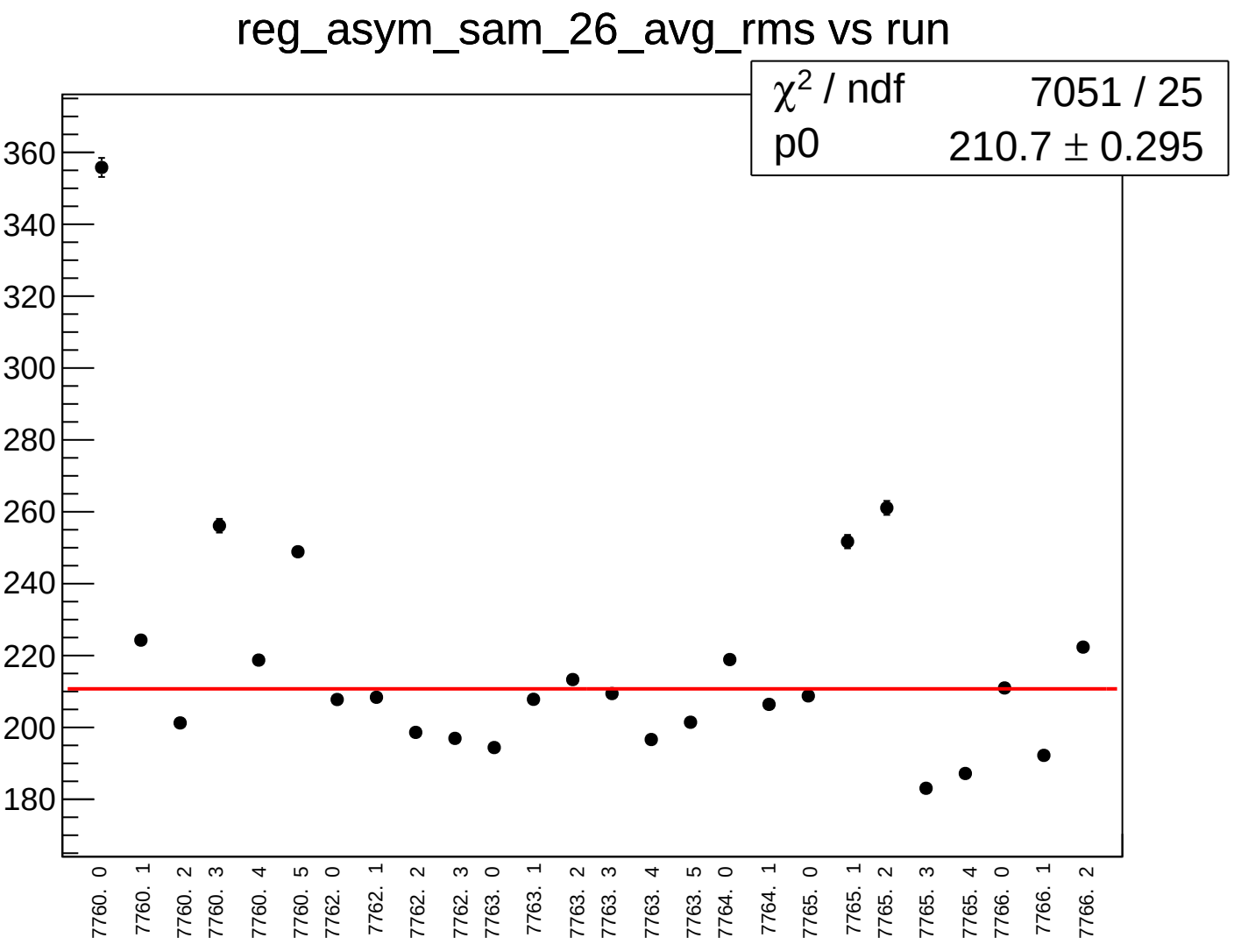

asym_sam_15_avg_mean vs run
χ² / ndf 13.73 / 25
p0 −102.5 ± 457.5
6000
4000
2000
0
−2000
−4000
−6000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −181.8
Std Dev 197.8
1.5
1
0.5
0
−0.5
−1
−1.5

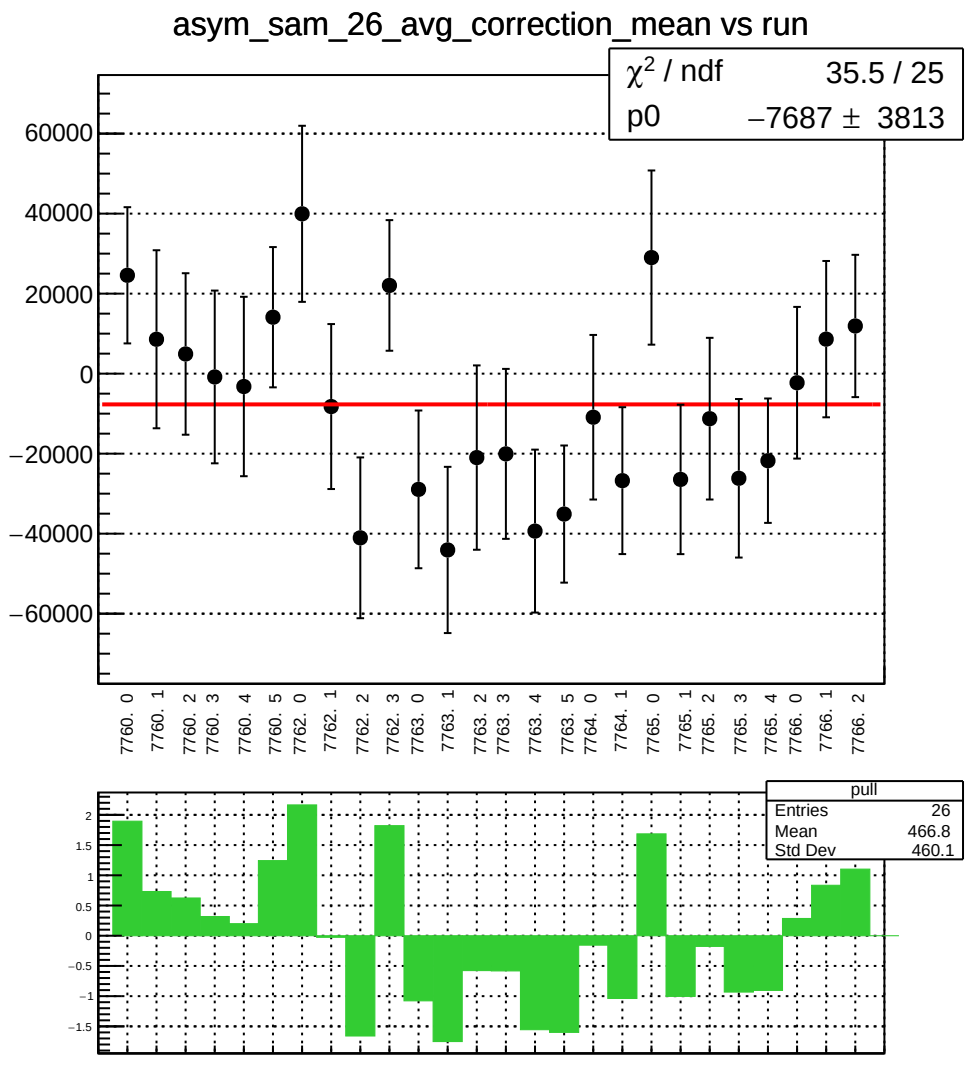

pull1D
Entries 26
Mean −0.009896
Std Dev 0.7266
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

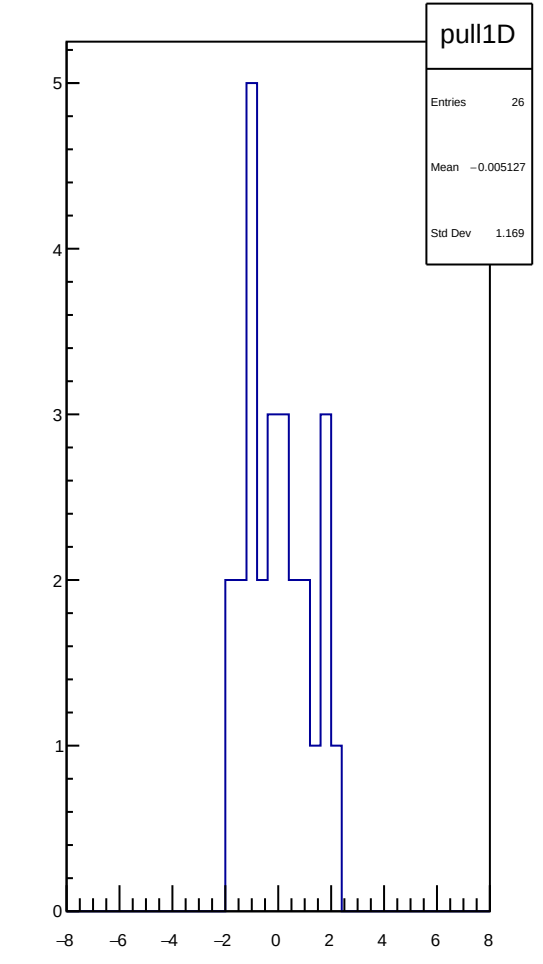

asym_sam_15_avg_rms vs run
χ² / ndf 1102 / 25
p0 232.5 ± 0.3235
260
250
240
230
220
210
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

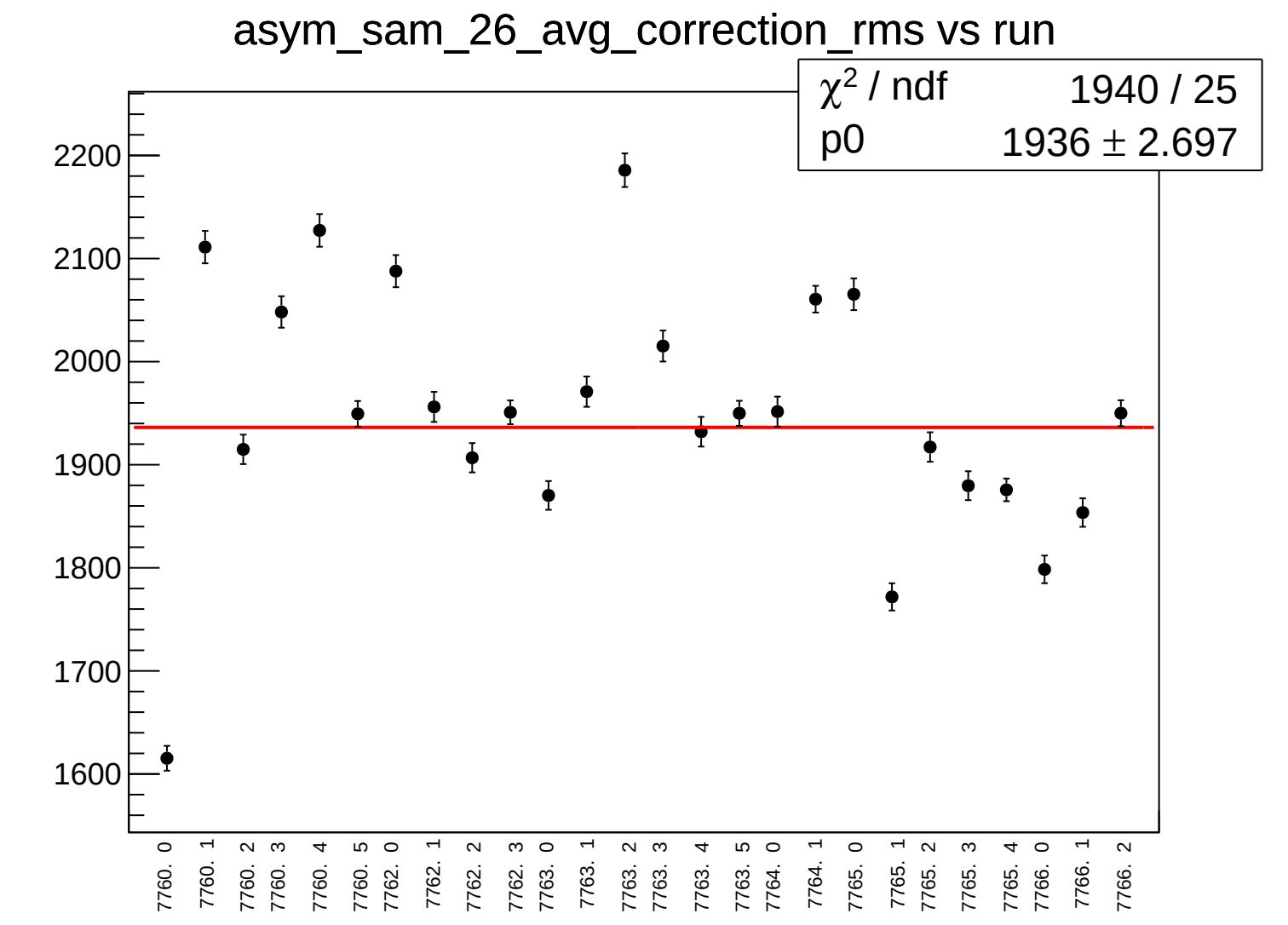

reg_asym_sam_26_avg_mean vs run
χ² / ndf 30.32 / 25
p0 408.7 ± 417.1
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 48.97
Std Dev 42.81
2
1
0
−1
−2

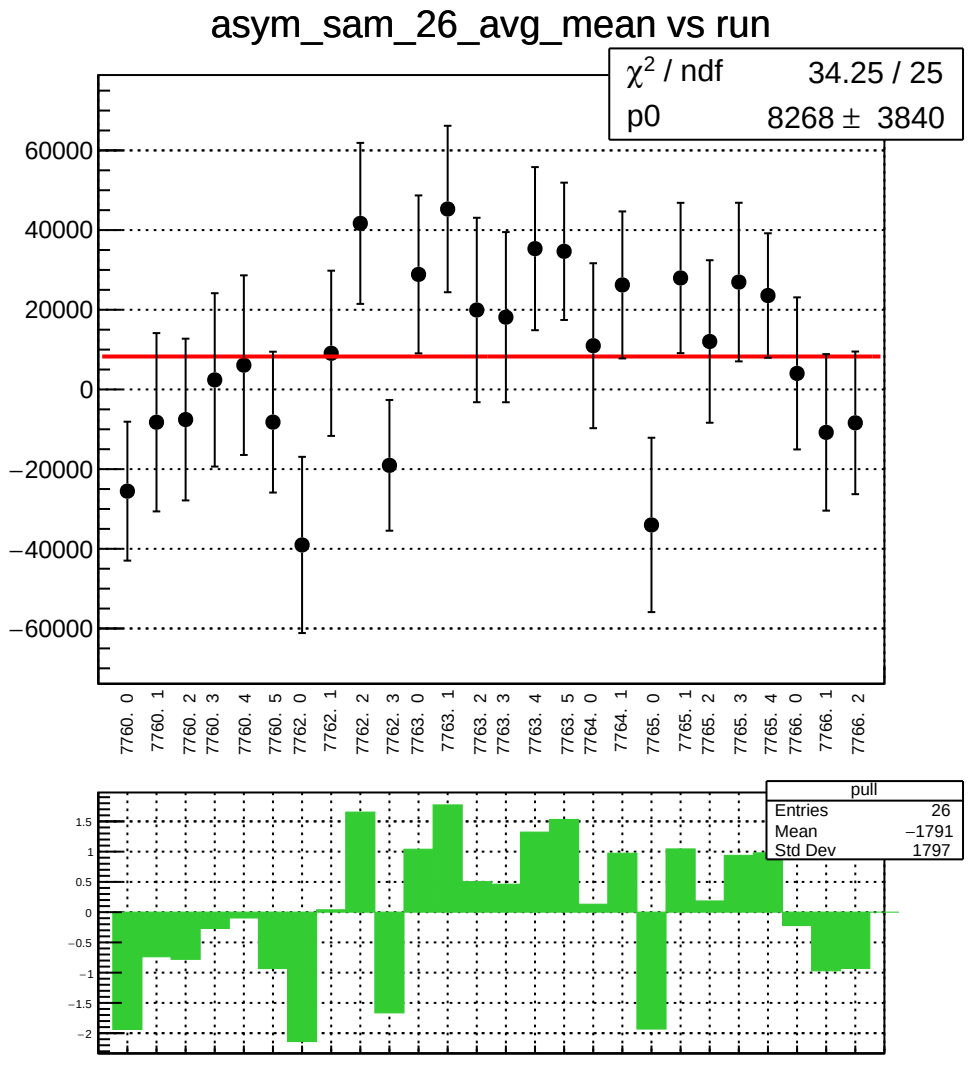

pull1D
Entries 26
Mean −0.01723
Std Dev 1.08
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

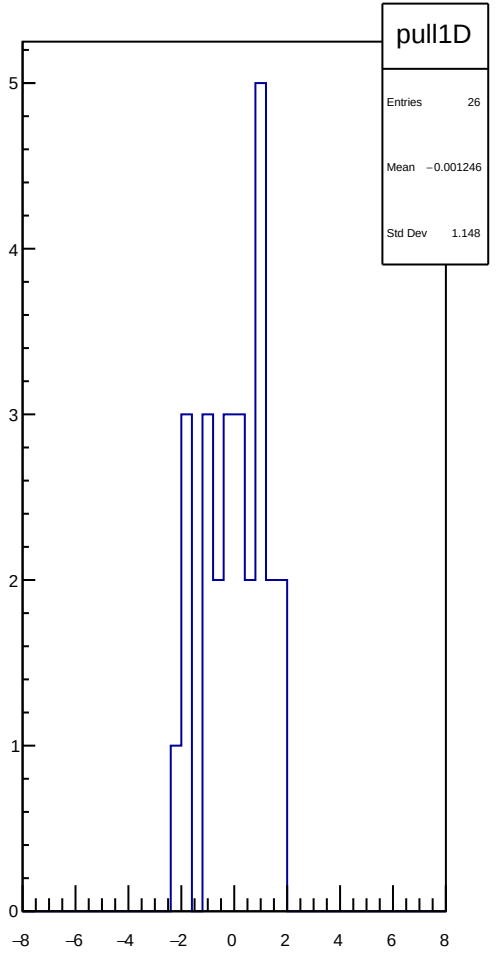

reg_asym_sam_26_avg_rms vs run
χ² / ndf 7051 / 25
p0 210.7 ± 0.295
360
340
320
300
280
260
240
220
200
180
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

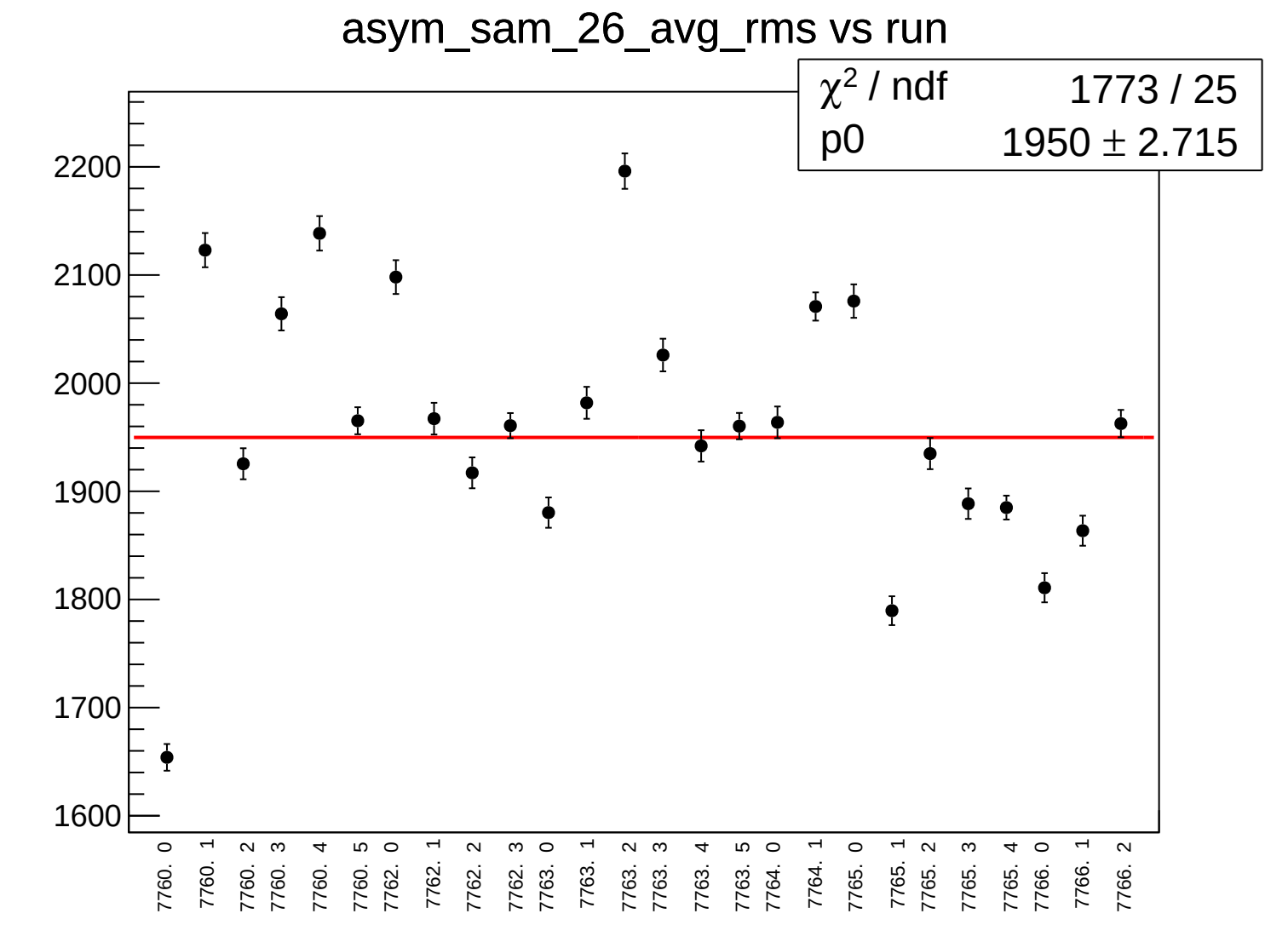

asym_sam_26_avg_correction_mean vs run
χ² / ndf 35.5 / 25
p0 −7687 ± 3813
60000
40000
20000
0
−20000
−40000
−60000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 466.8
Std Dev 460.1
2
1.5
1
0.5
0
−0.5
−1
−1.5

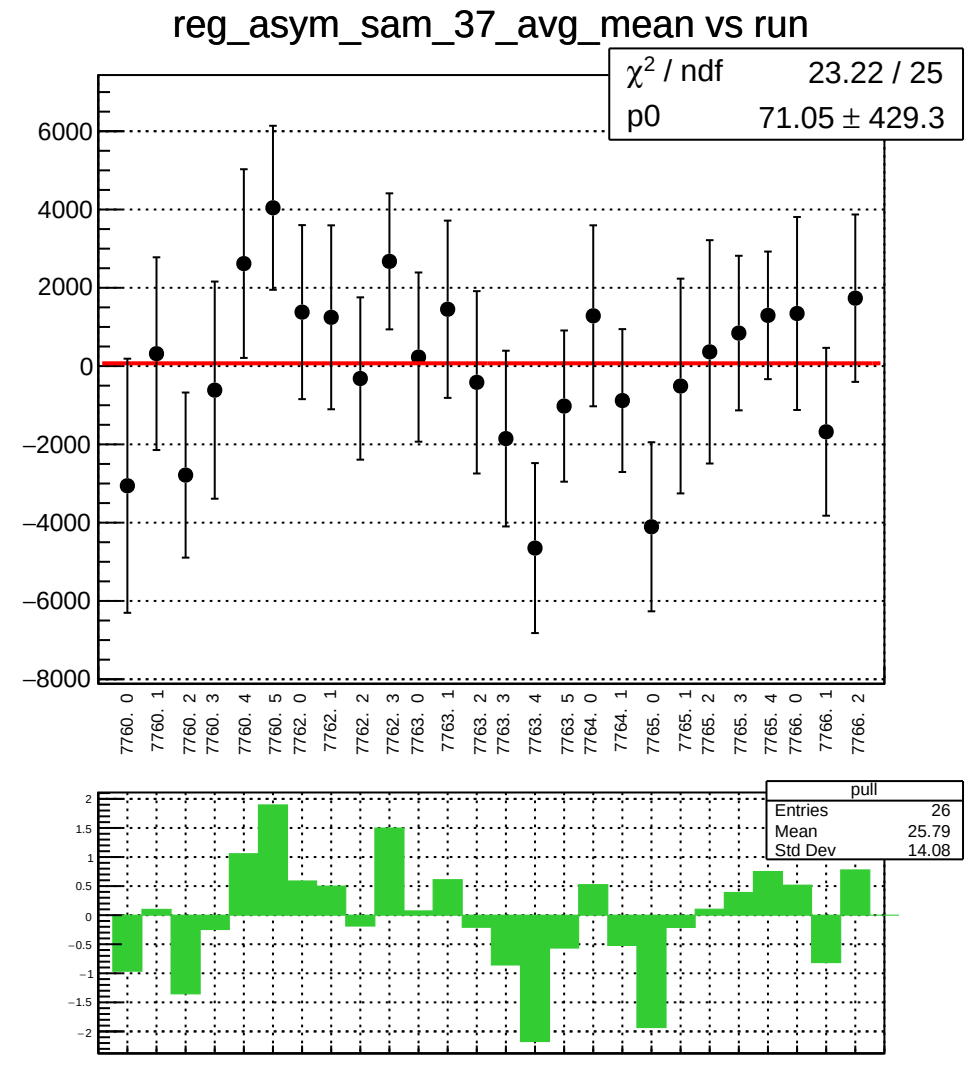

pull1D
Entries 26
Mean −0.005127
Std Dev 1.169
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

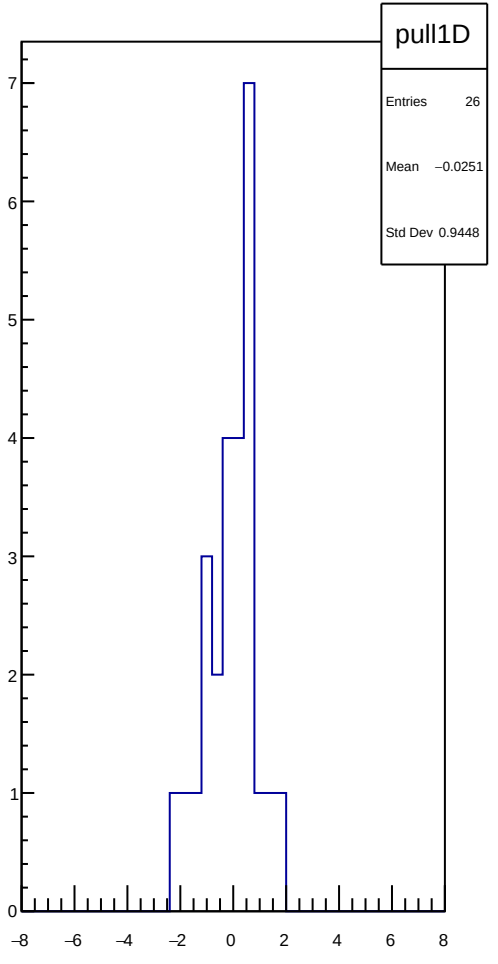

asym_sam_26_avg_correction_rms vs run
χ² / ndf 1940 / 25
p0 1936 ± 2.697
2200
2100
2000
1900
1800
1700
1600
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

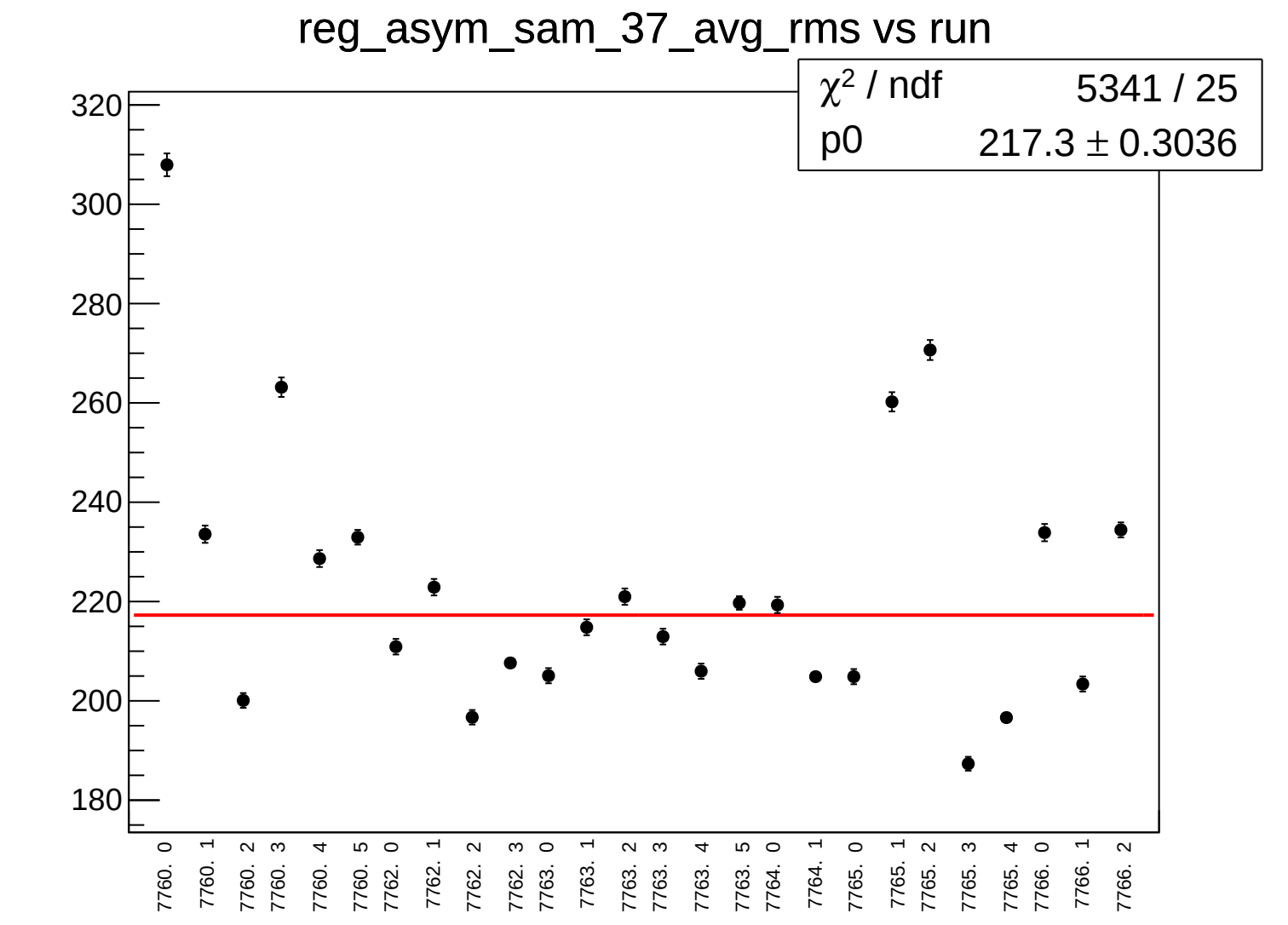

asym_sam_26_avg_mean vs run
χ² / ndf 34.25 / 25
p0 8268 ± 3840
60000
40000
20000
0
−20000
−40000
−60000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −1791
Std Dev 1797
1.5
1
0.5
0
−0.5
−1
−1.5
−2

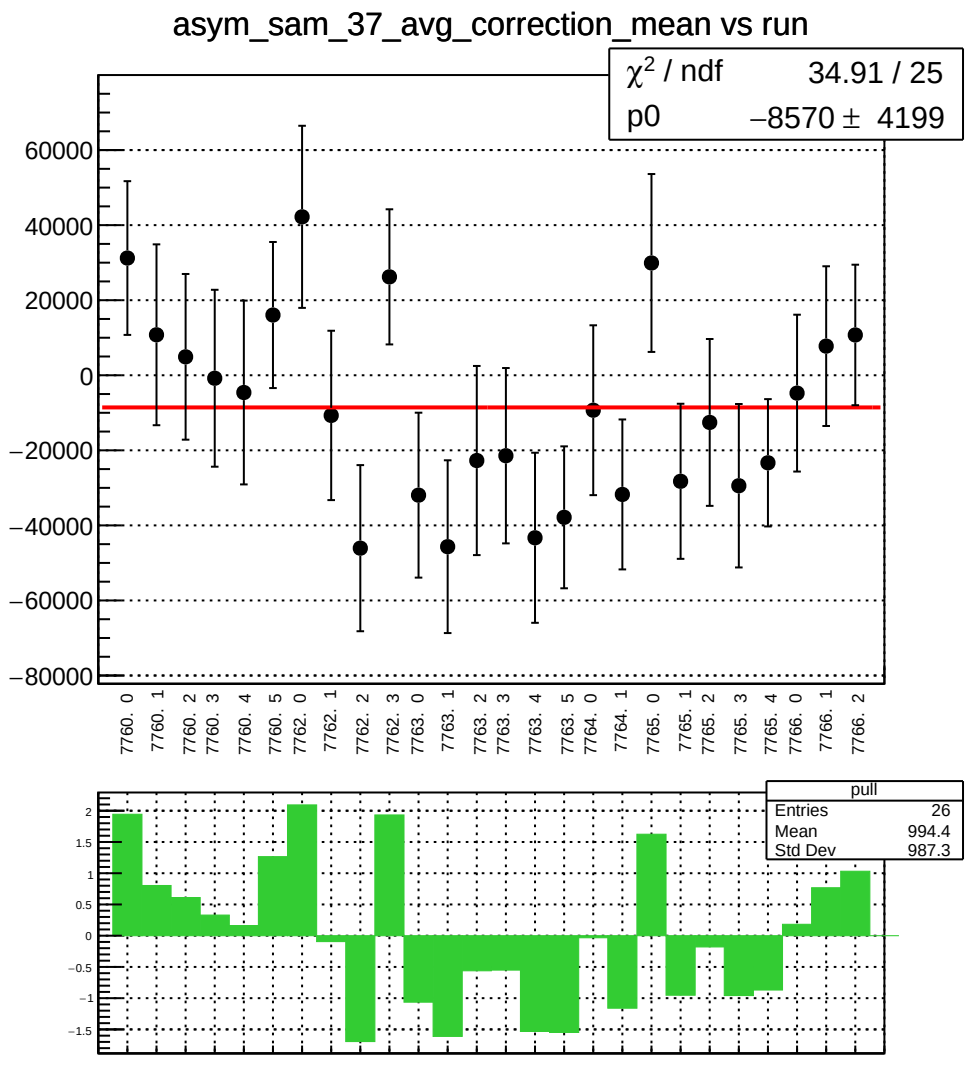

pull1D
Entries 26
Mean −0.001246
Std Dev 1.148
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

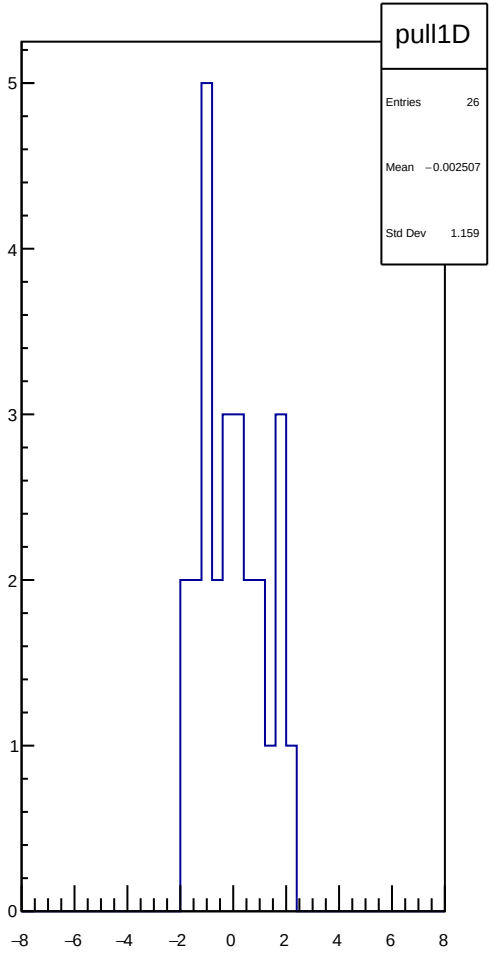

asym_sam_26_avg_rms vs run
χ² / ndf 1773 / 25
p0 1950 ± 2.715
2200
2100
2000
1900
1800
1700
1600
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

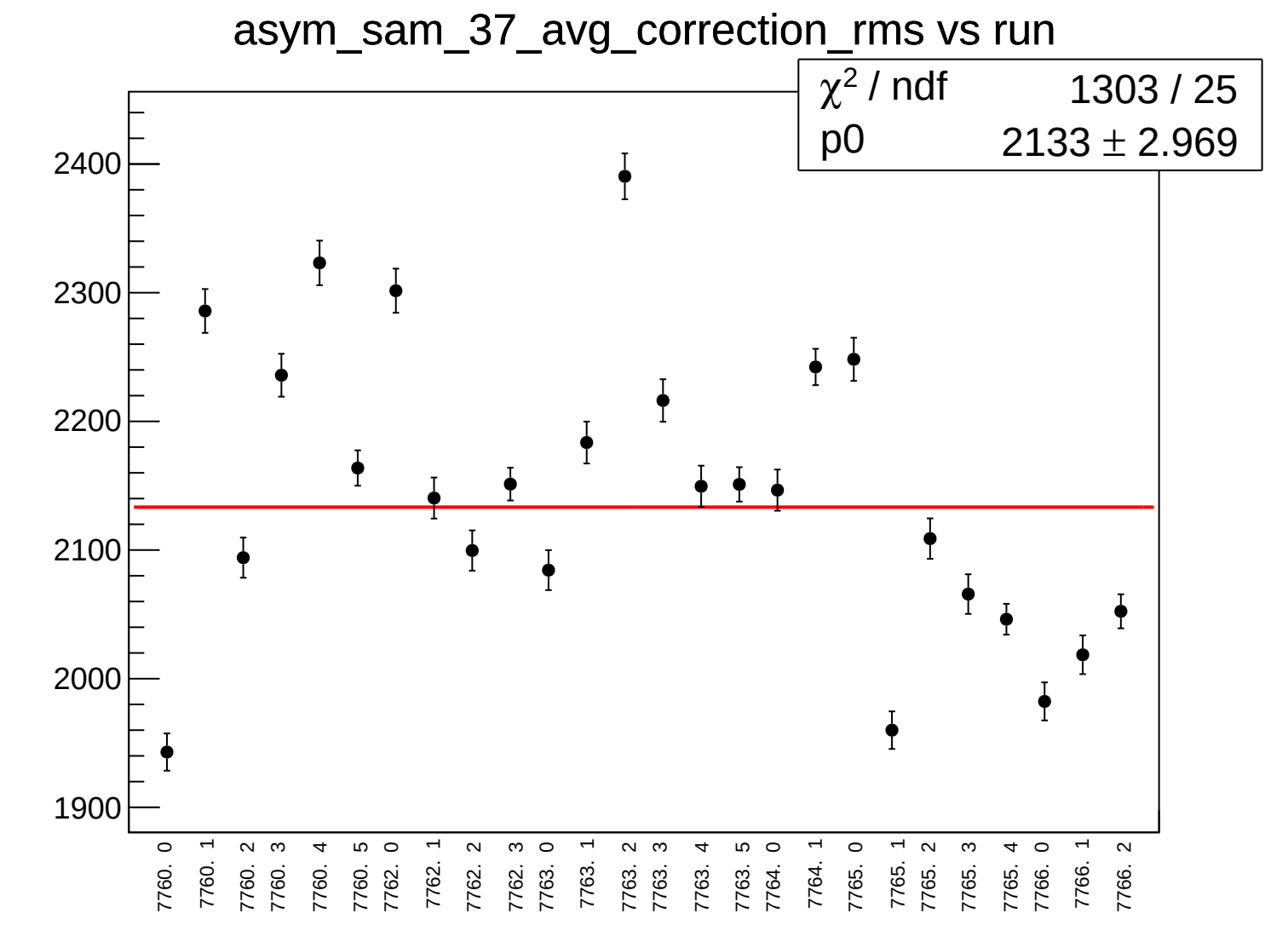

reg_asym_sam_37_avg_mean vs run
χ² / ndf 23.22 / 25
p0 71.05 ± 429.3
6000
4000
2000
0
−2000
−4000
−6000
−8000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 25.79
Std Dev 14.08
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

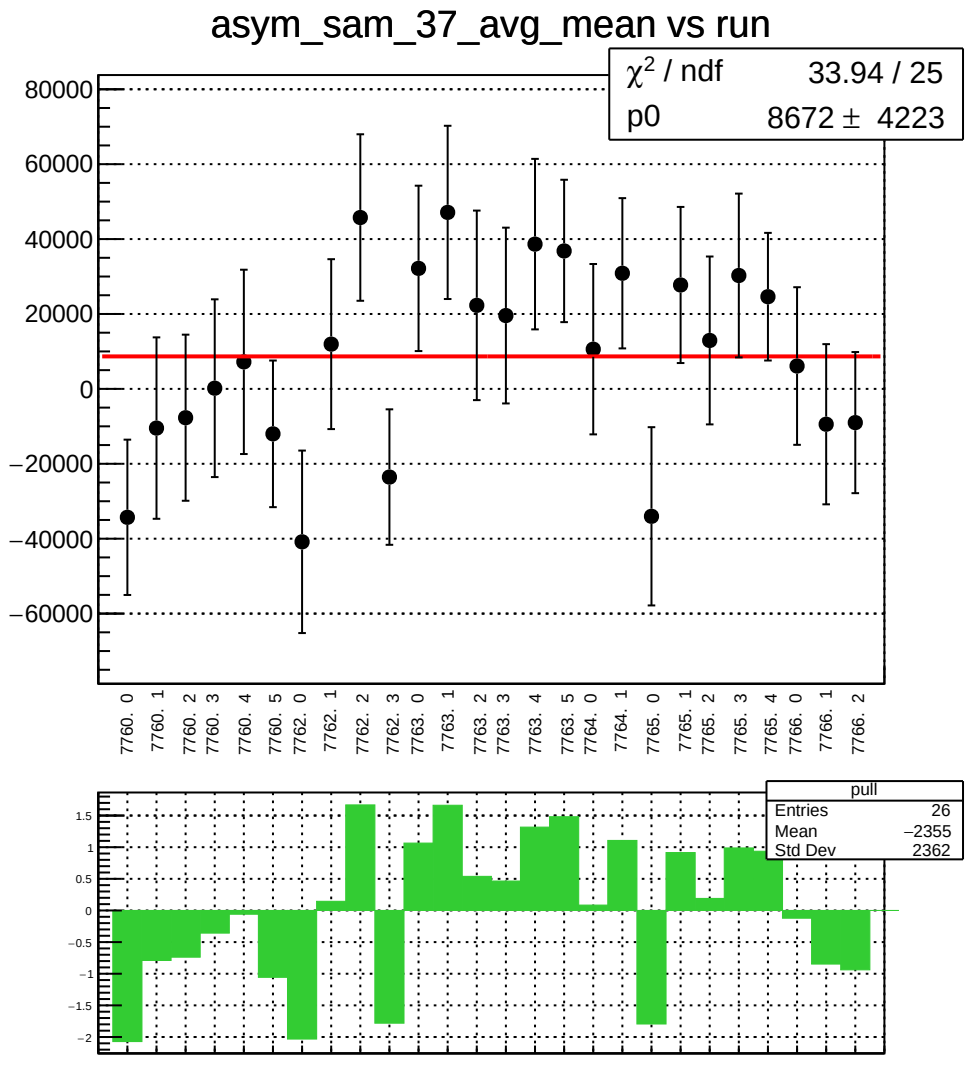

pull1D
Entries 26
Mean −0.0251
Std Dev 0.9448
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

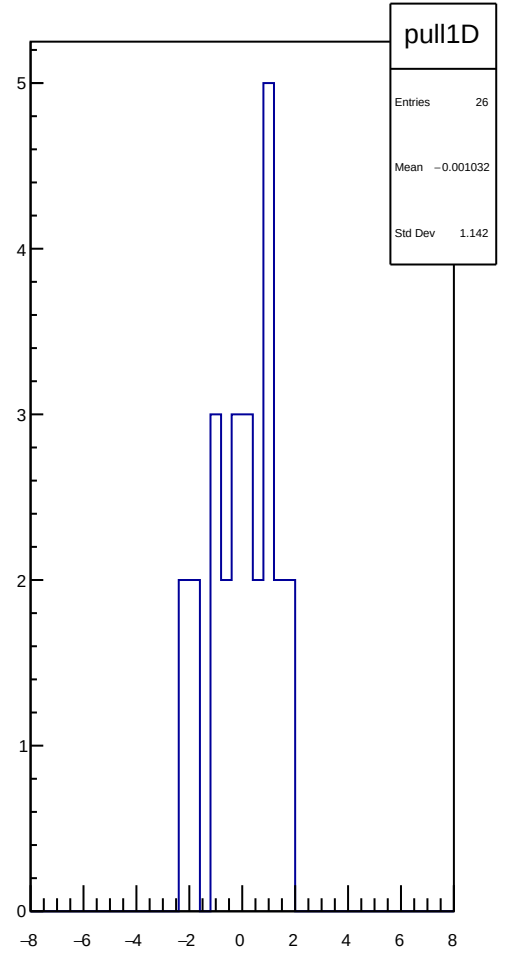

reg_asym_sam_37_avg_rms vs run
χ² / ndf 5341 / 25
p0 217.3 ± 0.3036
320
300
280
260
240
220
200
180
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

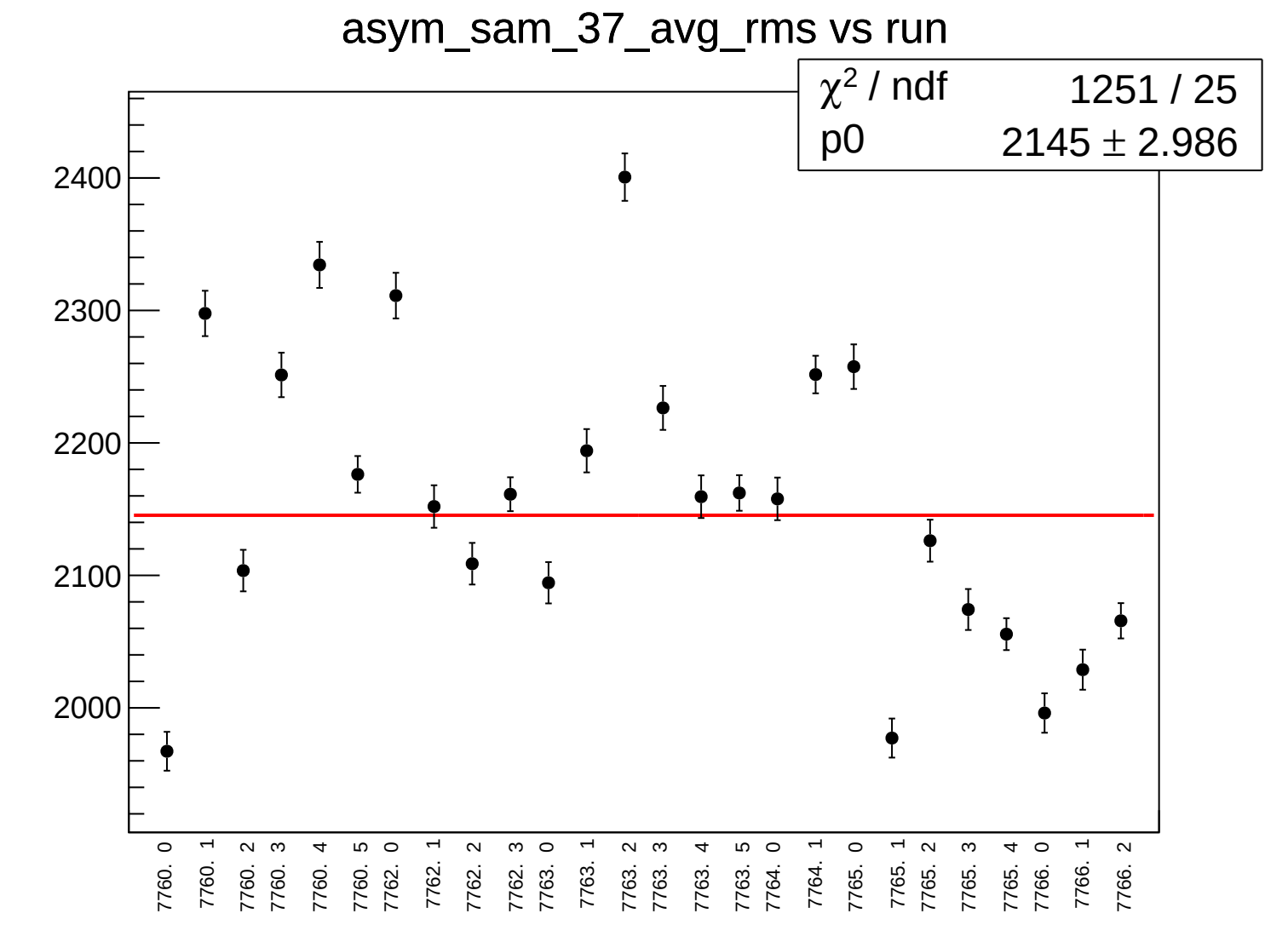

asym_sam_37_avg_correction_mean vs run
χ² / ndf 34.91 / 25
p0 −8570 ± 4199
60000
40000
20000
0
−20000
−40000
−60000
−80000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 994.4
Std Dev 987.3
2
1.5
1
0.5
0
−0.5
−1
−1.5

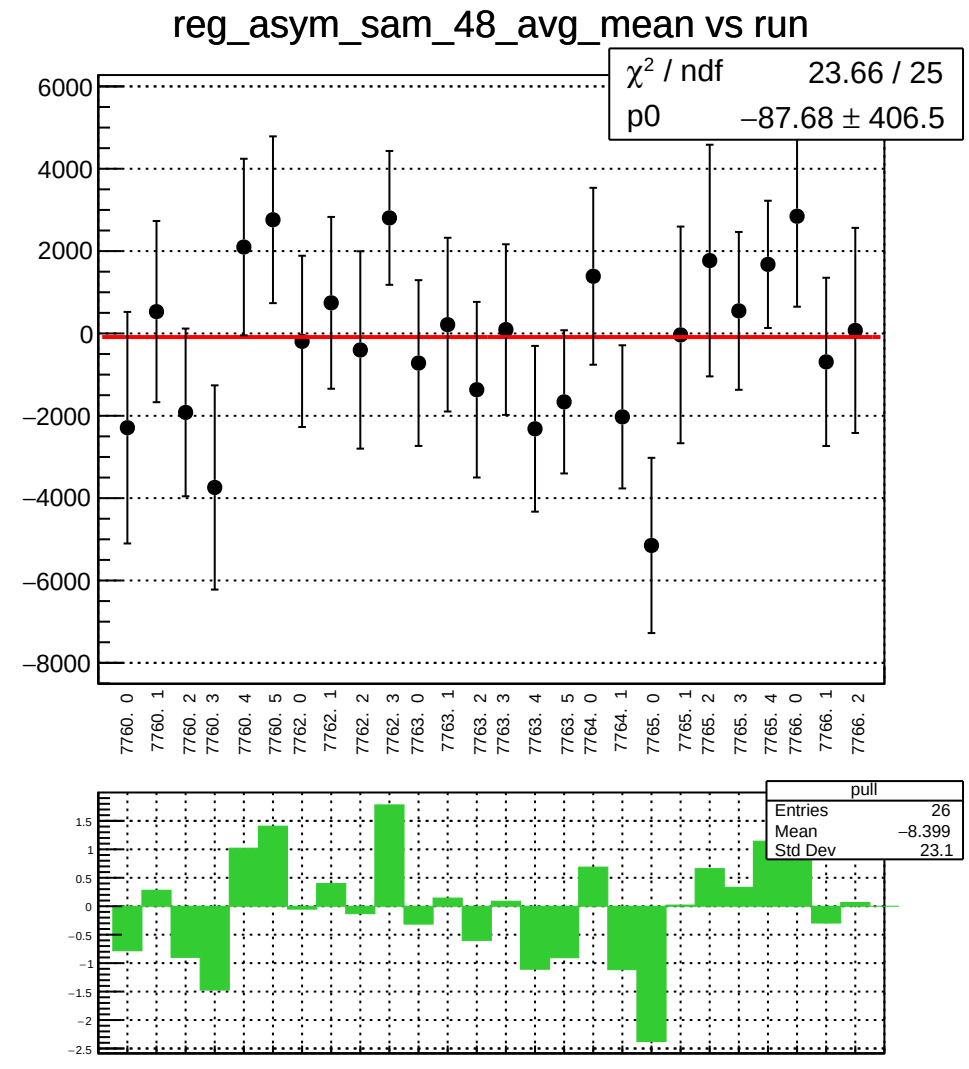

pull1D
Entries 26
Mean −0.002507
Std Dev 1.159
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

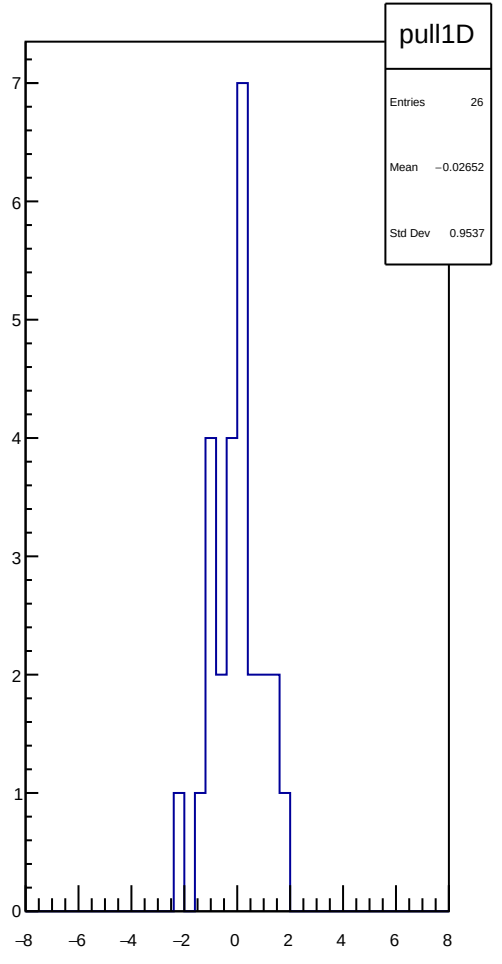

asym_sam_37_avg_correction_rms vs run
χ² / ndf 1303 / 25
p0 2133 ± 2.969
2400
2300
2200
2100
2000
1900
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

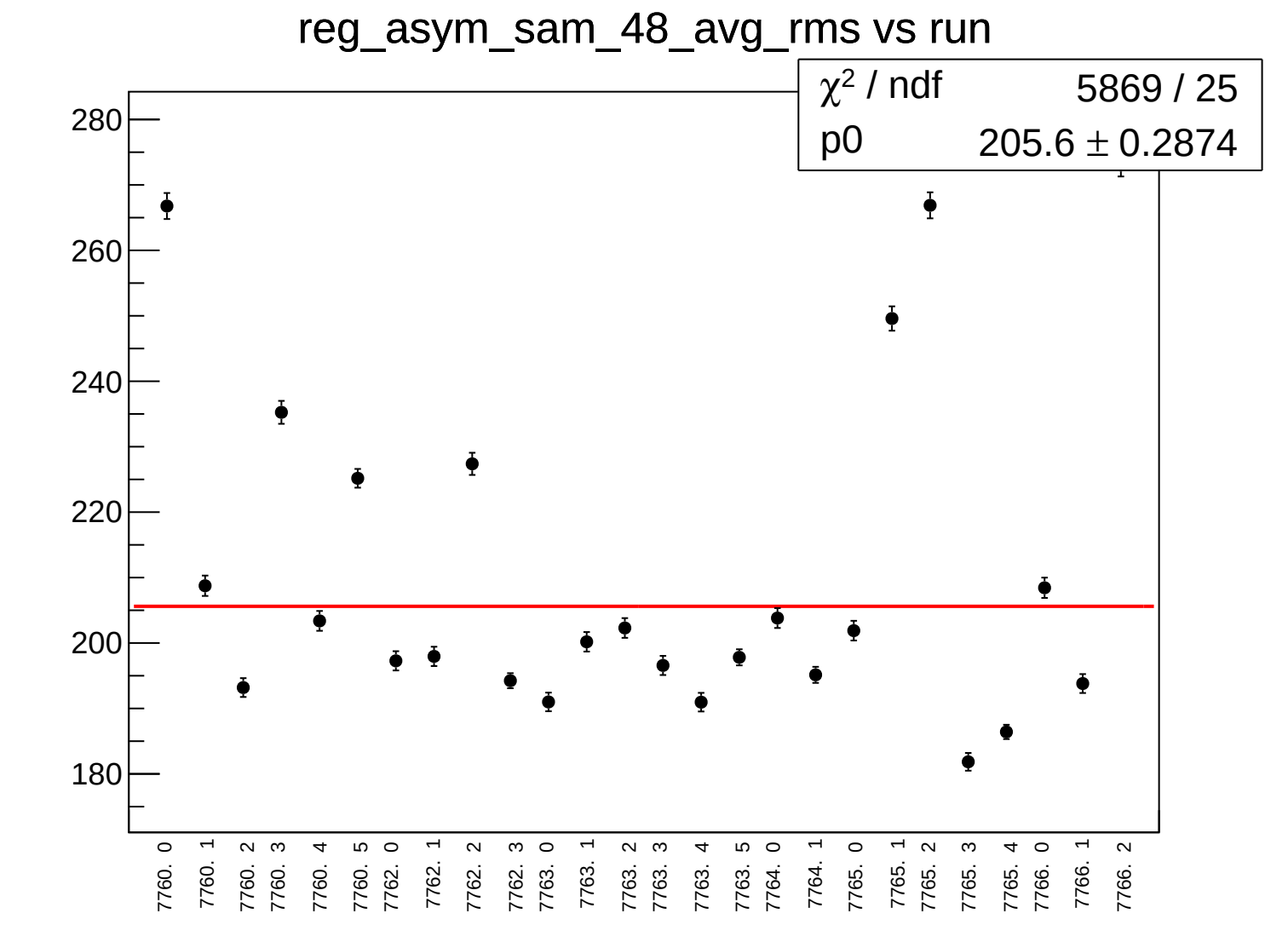

asym_sam_37_avg_mean vs run
χ² / ndf 33.94 / 25
p0 8672 ± 4223
80000
60000
40000
20000
0
−20000
−40000
−60000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −2355
Std Dev 2362
1.5
1
0.5
0
−0.5
−1
−1.5
−2

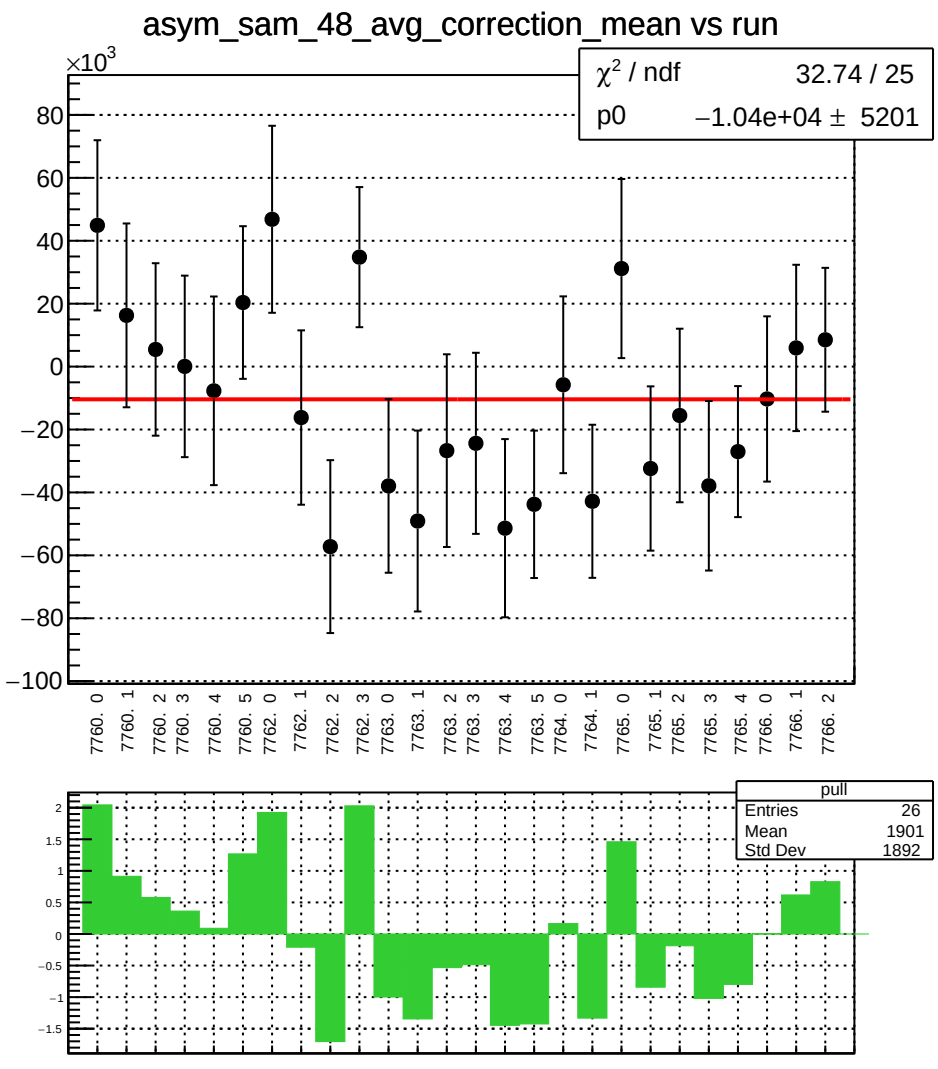

pull1D
Entries 26
Mean −0.001032
Std Dev 1.142
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

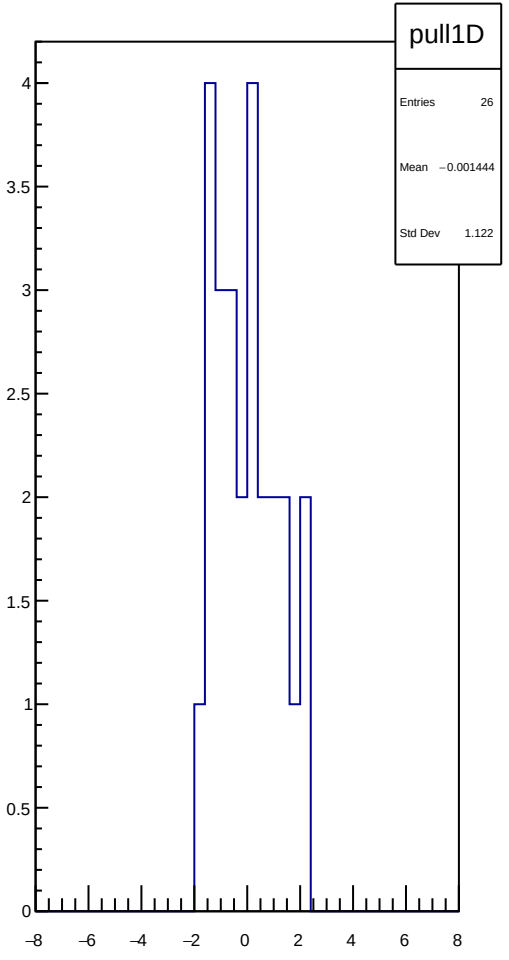

asym_sam_37_avg_rms vs run
χ² / ndf 1251 / 25
p0 2145 ± 2.986
2400
2300
2200
2100
2000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

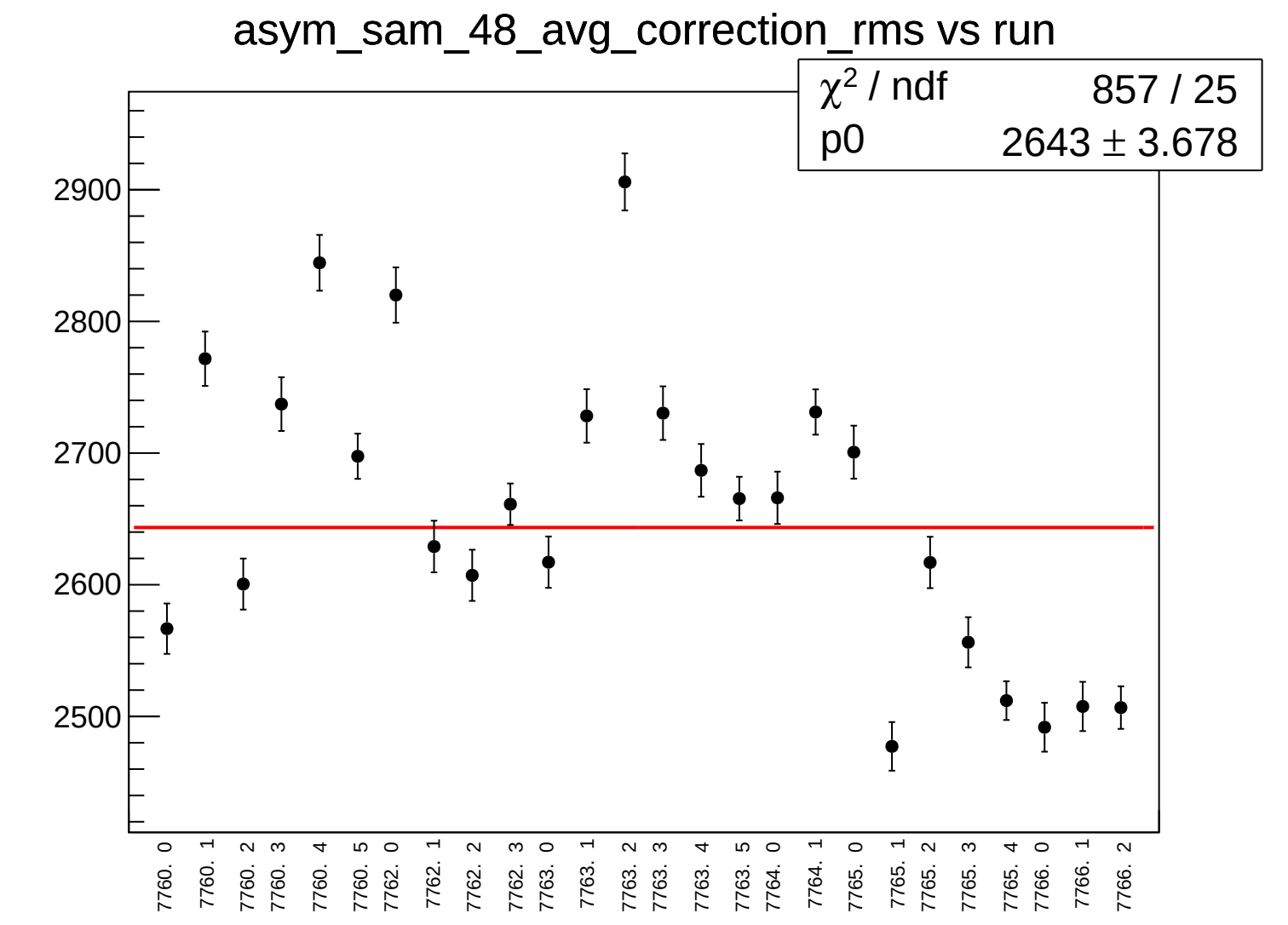

reg_asym_sam_48_avg_mean vs run
χ² / ndf 23.66 / 25
p0 −87.68 ± 406.5
6000
4000
2000
0
−2000
−4000
−6000
−8000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −8.399
Std Dev 23.1
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

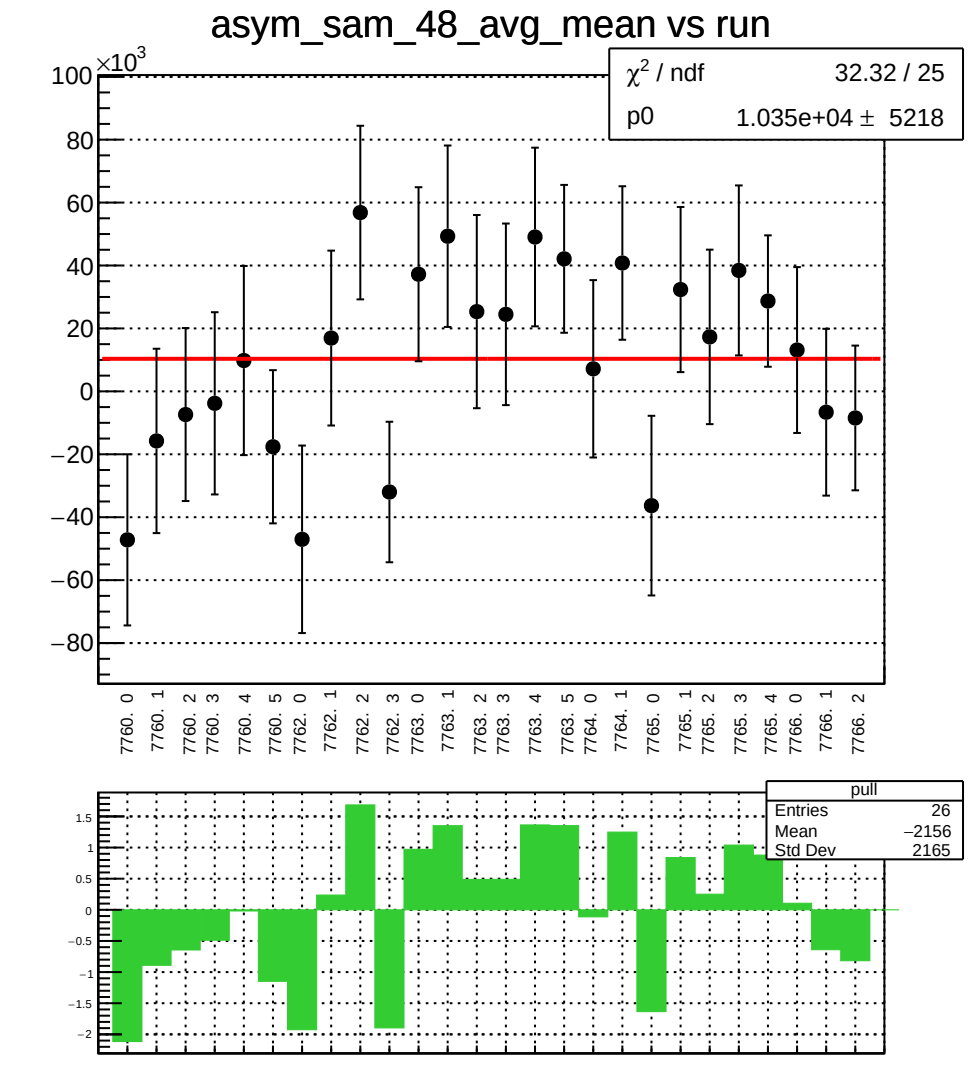

pull1D
Entries 26
Mean −0.02652
Std Dev 0.9537
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

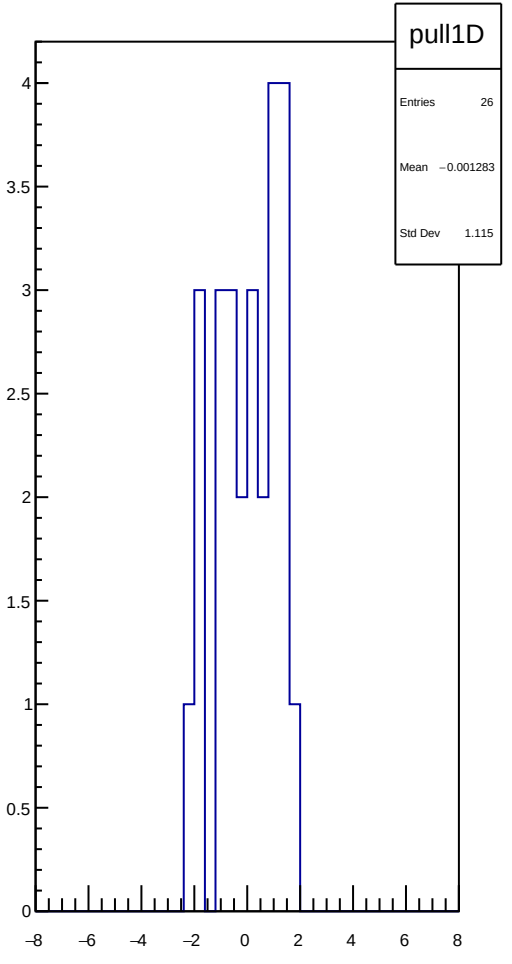

reg_asym_sam_48_avg_rms vs run
χ² / ndf 5869 / 25
p0 205.6 ± 0.2874
280
260
240
220
200
180
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

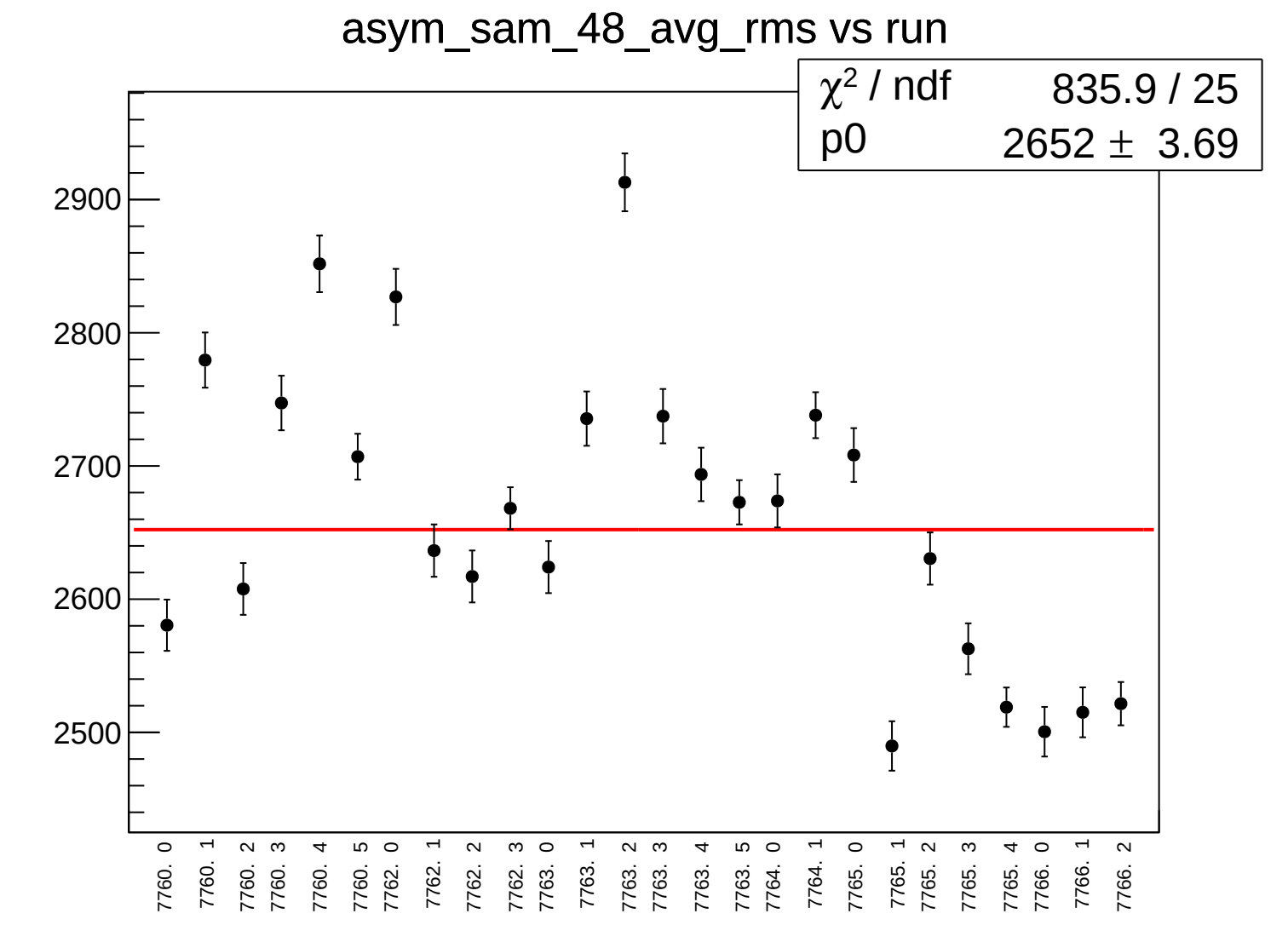

asym_sam_48_avg_correction_mean vs run
×10^3
χ² / ndf 32.74 / 25
p0 −1.04e+04 ± 5201
80
60
40
20
0
−20
−40
−60
−80
−100
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 1901
Std Dev 1892
2
1.5
1
0.5
0
−0.5
−1
−1.5

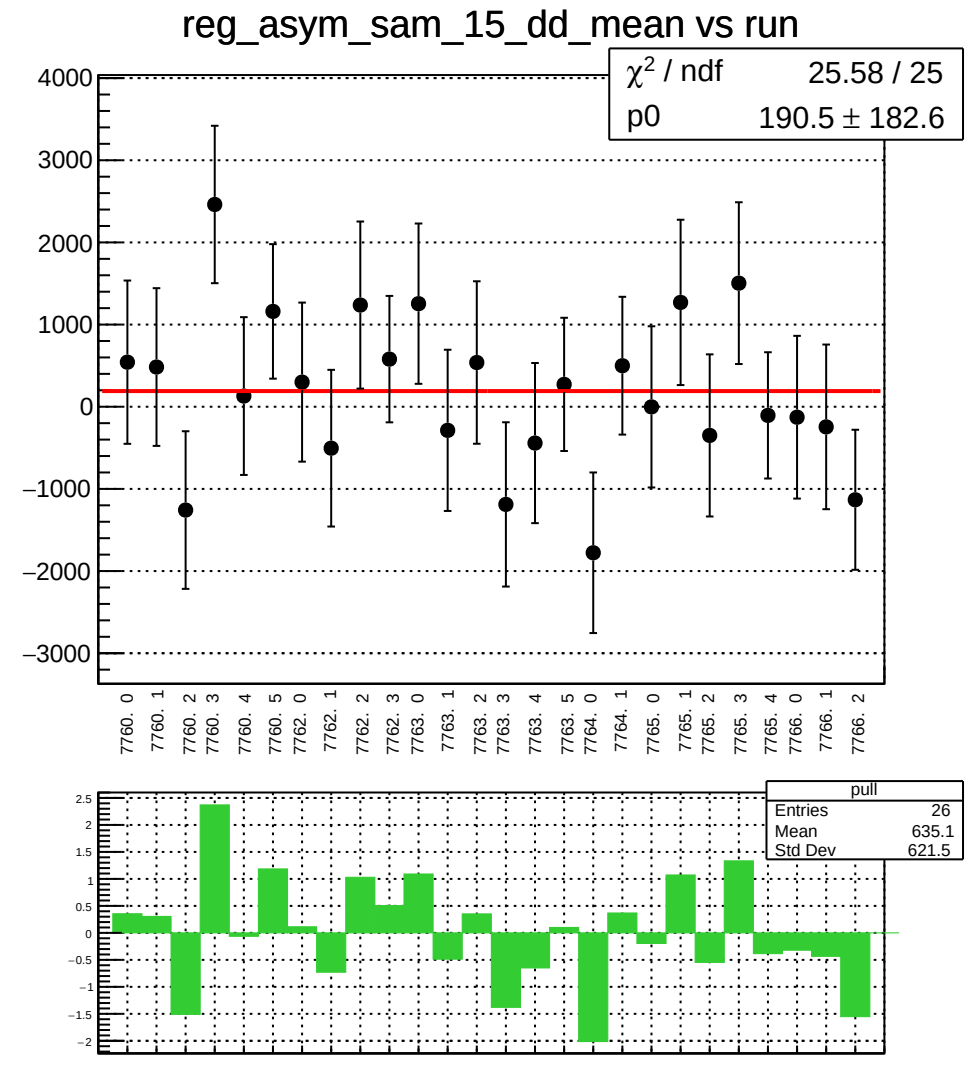

pull1D
Entries 26
Mean −0.001444
Std Dev 1.122
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

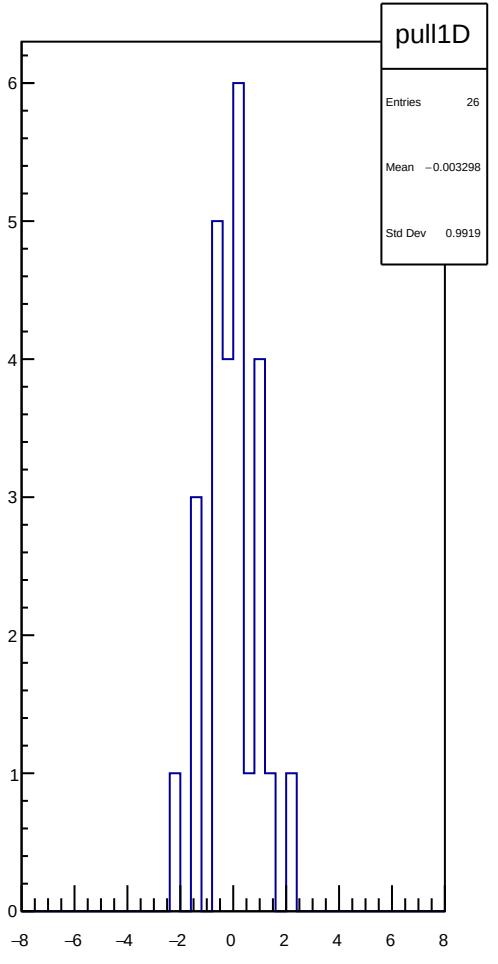

asym_sam_48_avg_correction_rms vs run
χ² / ndf 857 / 25
p0 2643 ± 3.678
2900
2800
2700
2600
2500
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

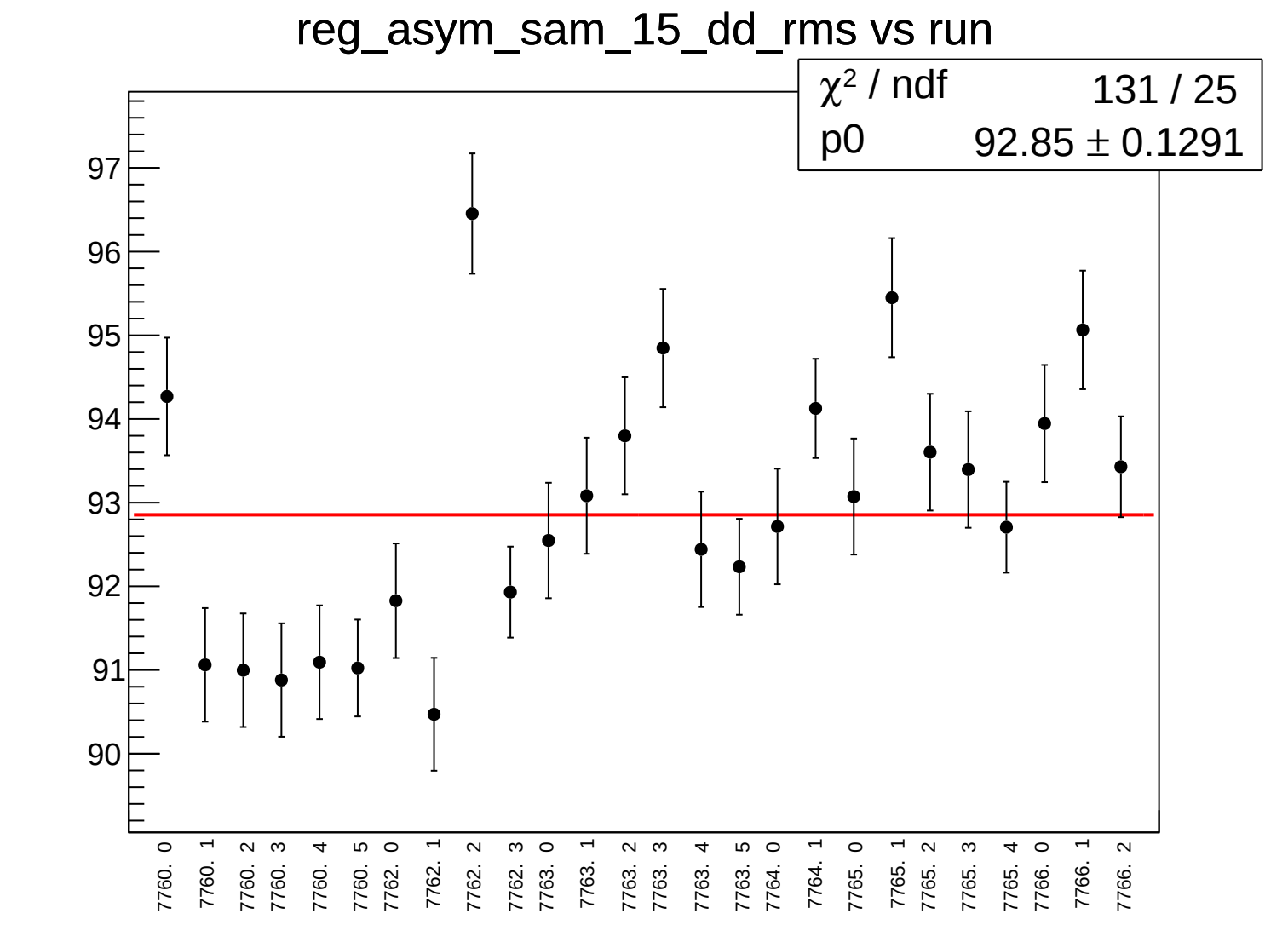

asym_sam_48_avg_mean vs run
χ² / ndf 32.32 / 25
p0 1.035e+04 ± 5218
×10³
100
80
60
40
20
0
−20
−40
−60
−80
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −2156
Std Dev 2165
1.5
1
0.5
0
−0.5
−1
−1.5
−2

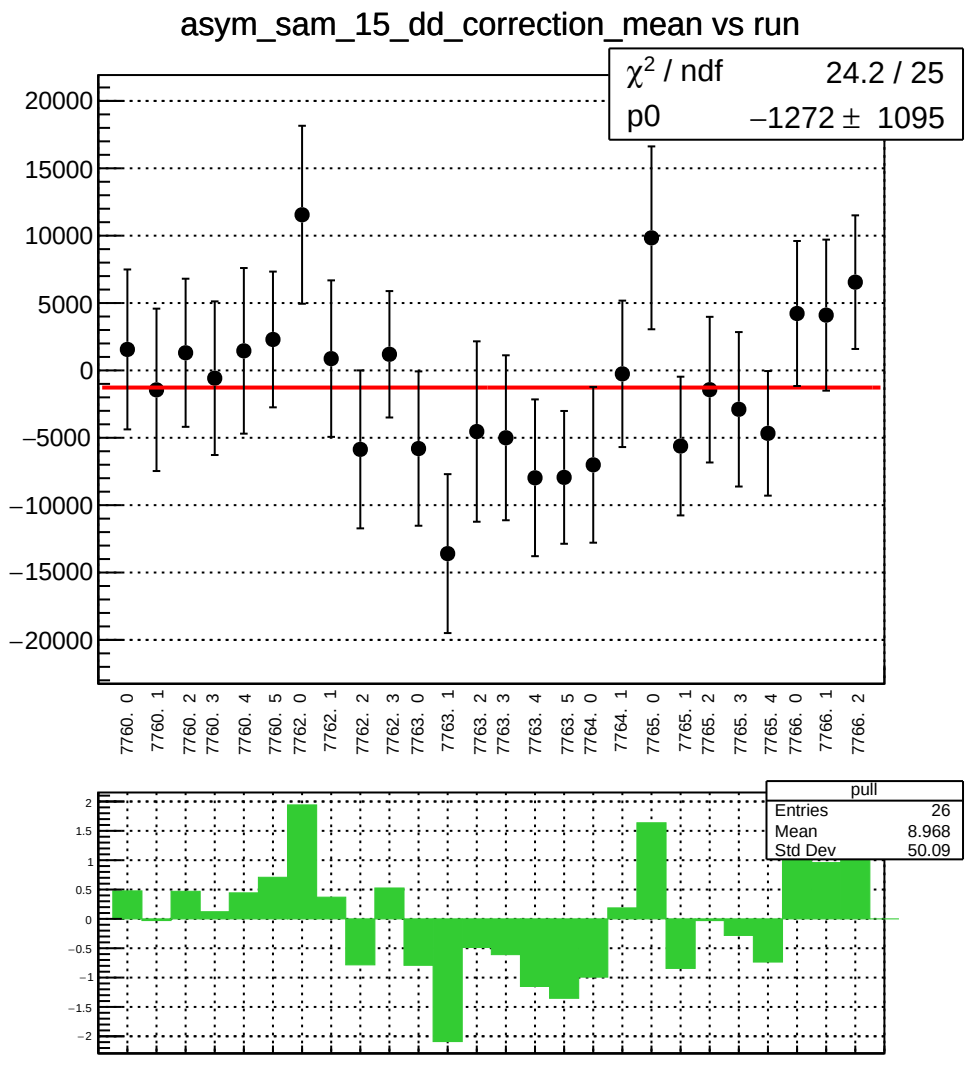

pull1D
Entries 26
Mean −0.001283
Std Dev 1.115
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

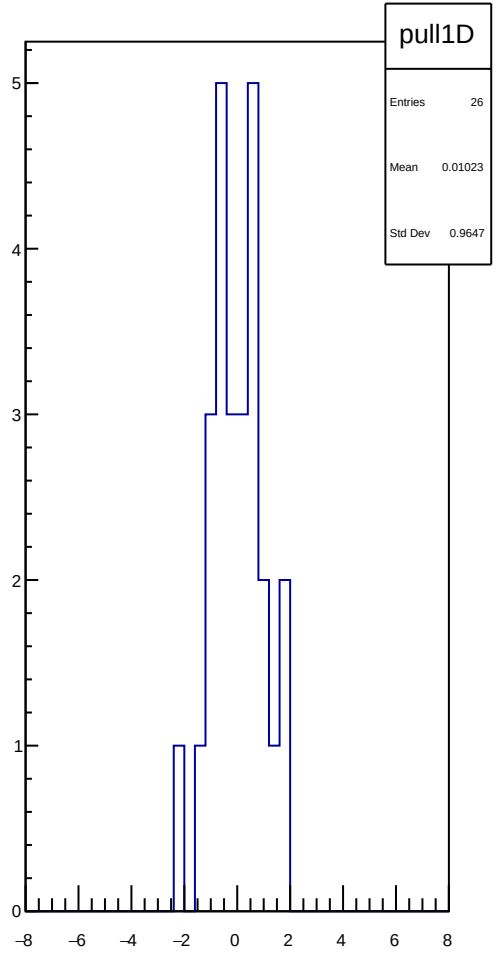

asym_sam_48_avg_rms vs run
χ² / ndf 835.9 / 25
p0 2652 ± 3.69
2900
2800
2700
2600
2500
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

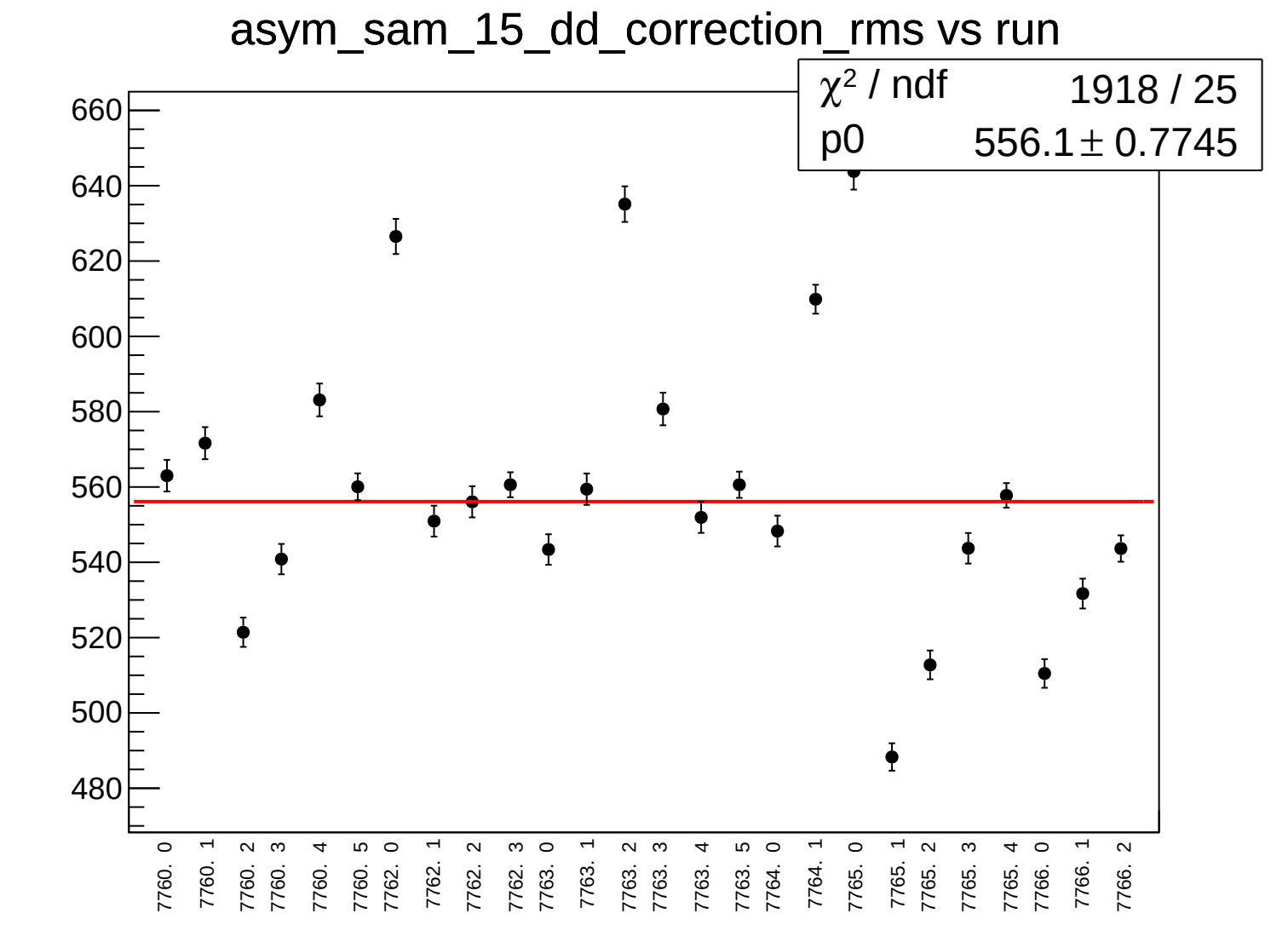

reg_asym_sam_15_dd_mean vs run
χ² / ndf 25.58 / 25
p0 190.5 ± 182.6
4000
3000
2000
1000
0
−1000
−2000
−3000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 635.1
Std Dev 621.5
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

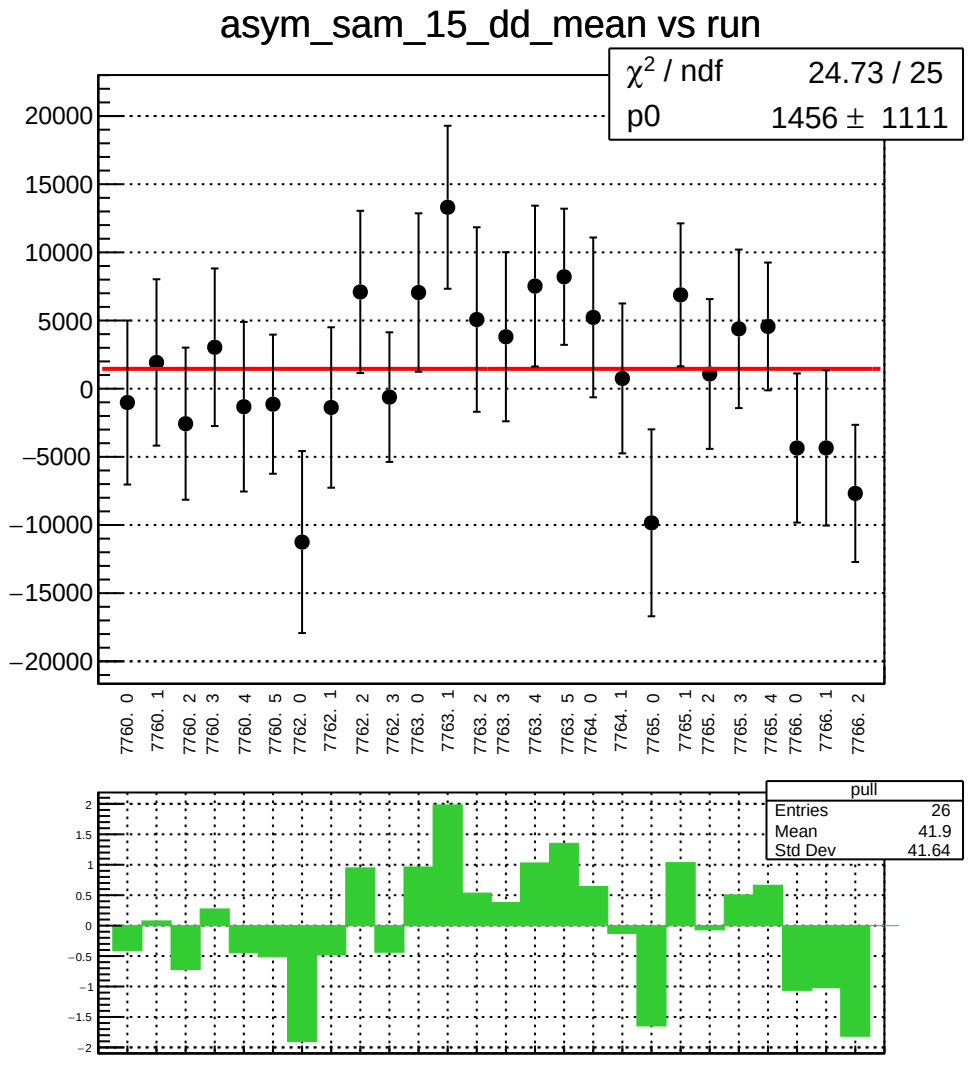

pull1D
Entries 26
Mean −0.003298
Std Dev 0.9919
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

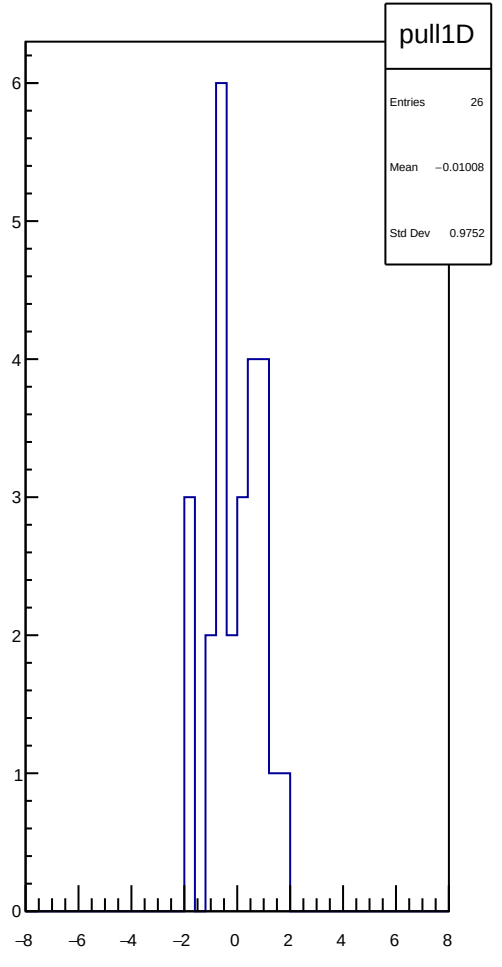

reg_asym_sam_15_dd_rms vs run
χ² / ndf 131 / 25
p0 92.85 ± 0.1291
97
96
95
94
93
92
91
90
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

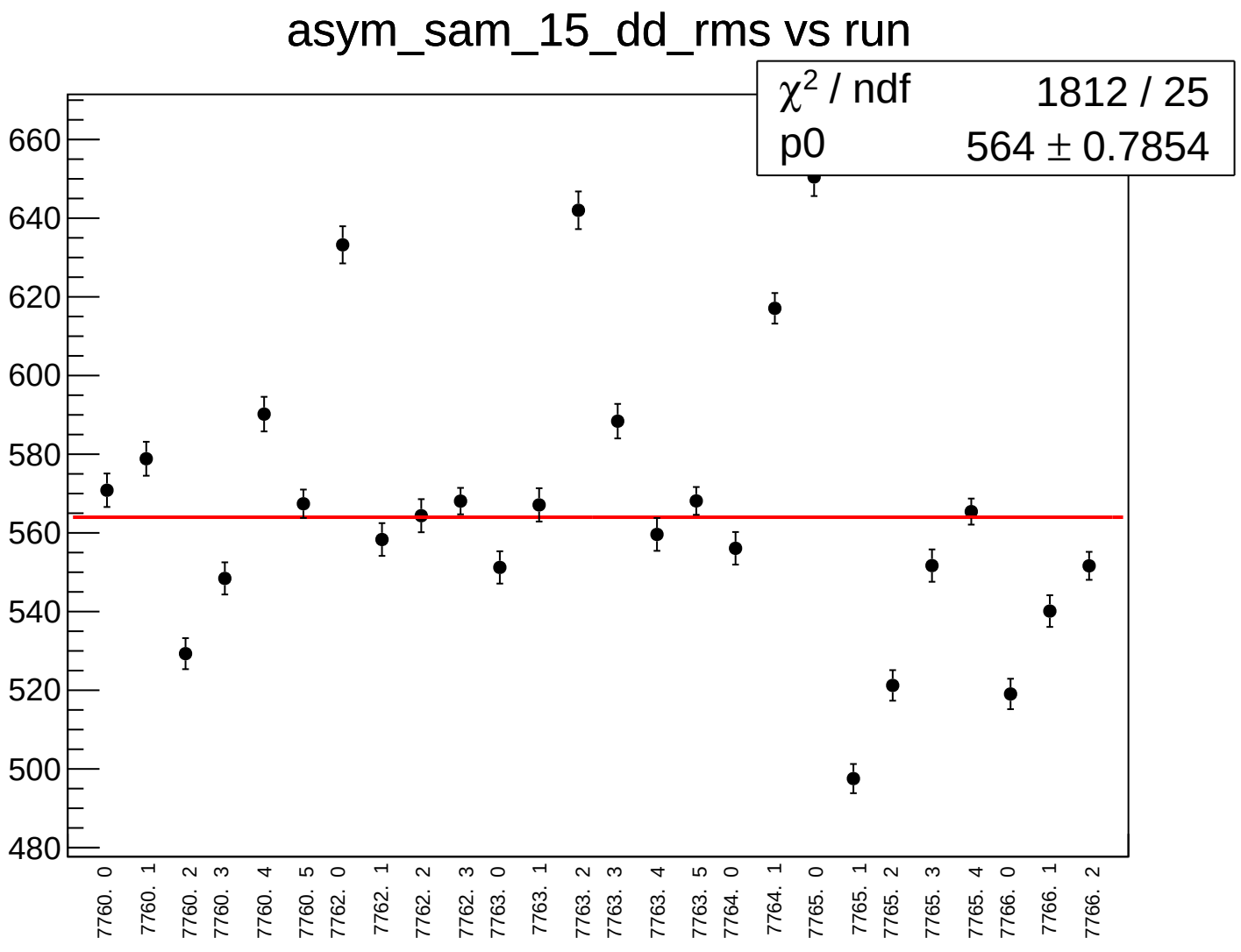

asym_sam_15_dd_correction_mean vs run
χ² / ndf 24.2 / 25
p0 −1272 ± 1095
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 8.968
Std Dev 50.09
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

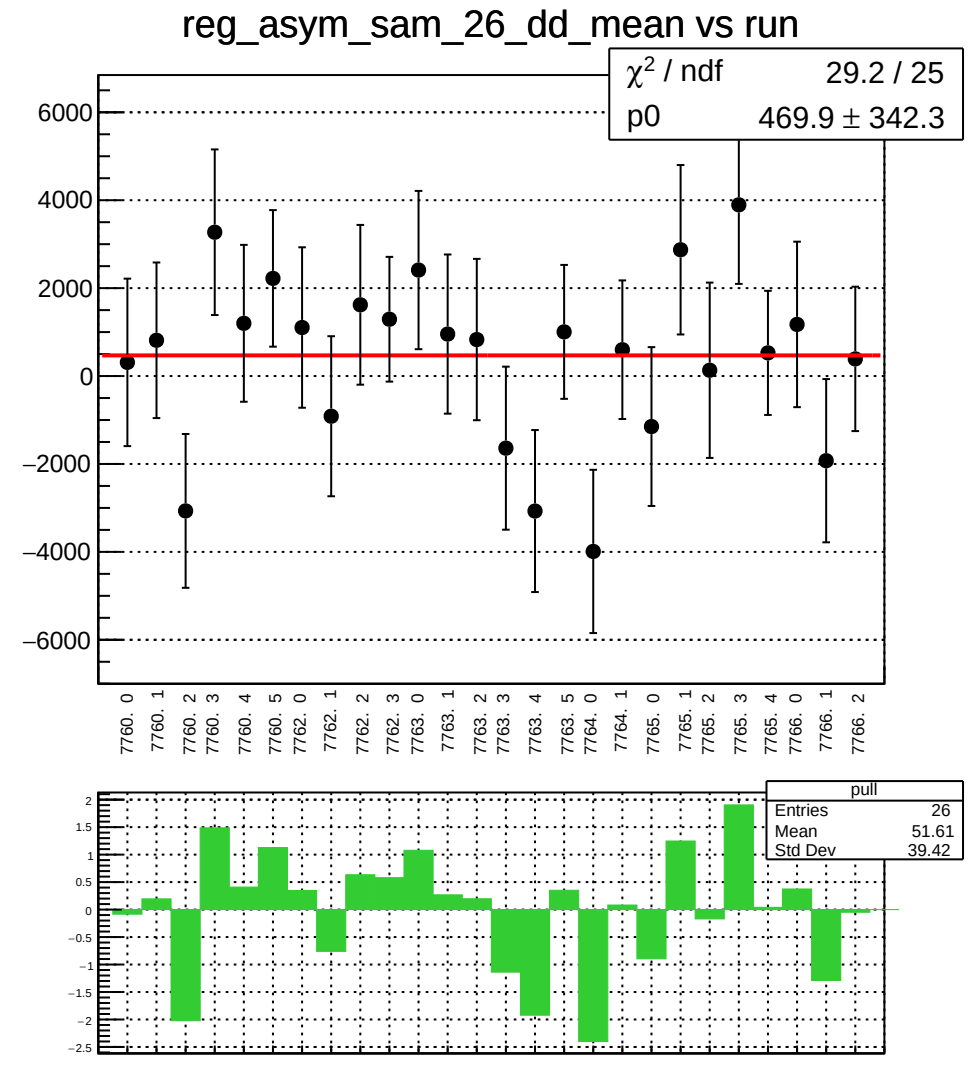

pull1D
Entries 26
Mean 0.01023
Std Dev 0.9647
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

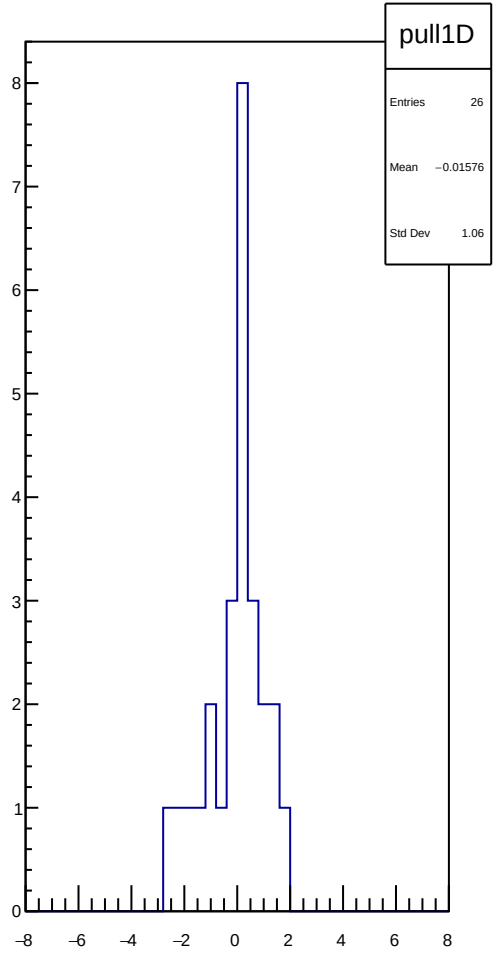

asym_sam_15_dd_correction_rms vs run
χ² / ndf 1918 / 25
p0 556.1 ± 0.7745
660
640
620
600
580
560
540
520
500
480
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

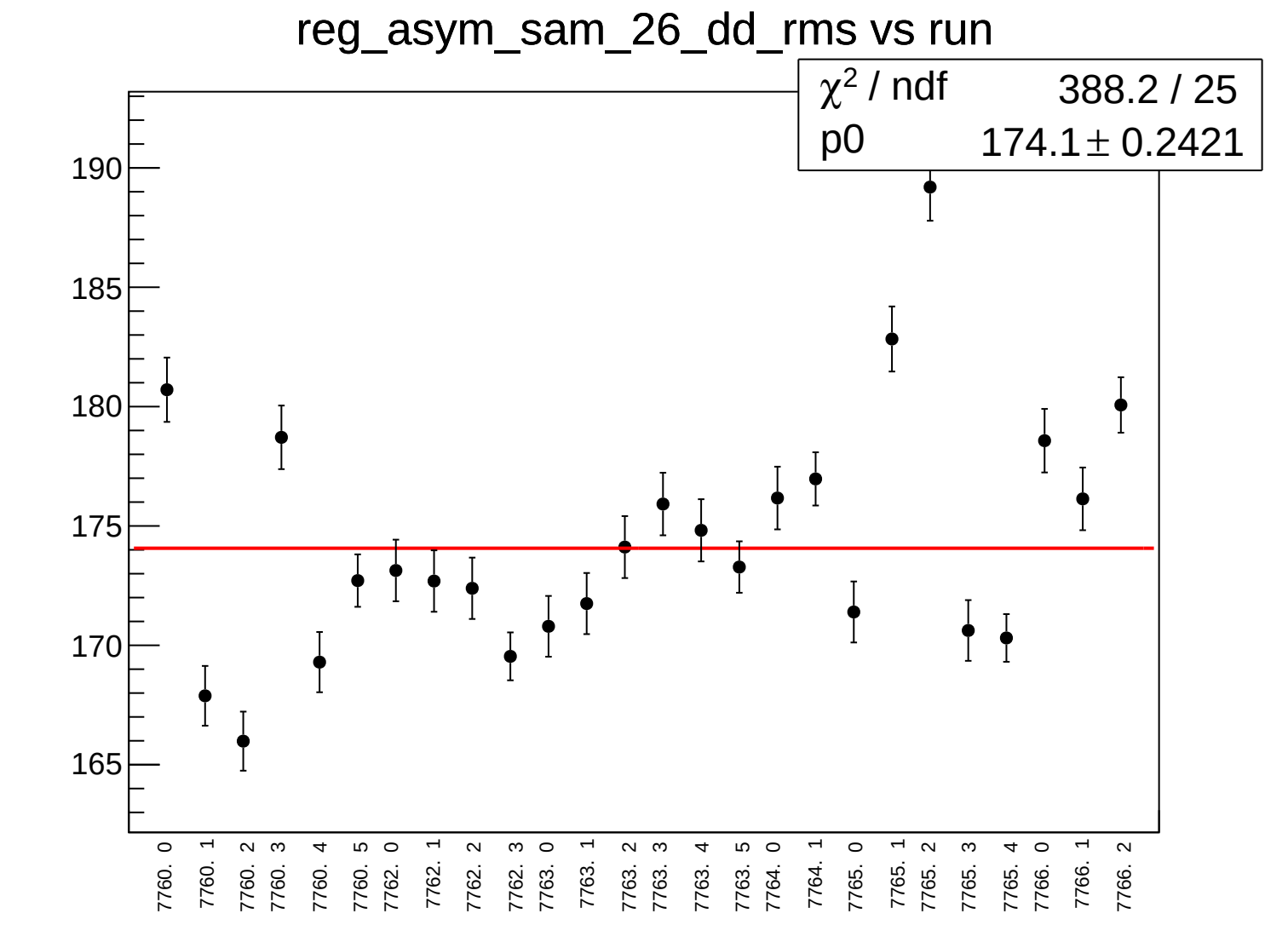

asym_sam_15_dd_mean vs run
χ² / ndf 24.73 / 25
p0 1456 ± 1111
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 41.9
Std Dev 41.64
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

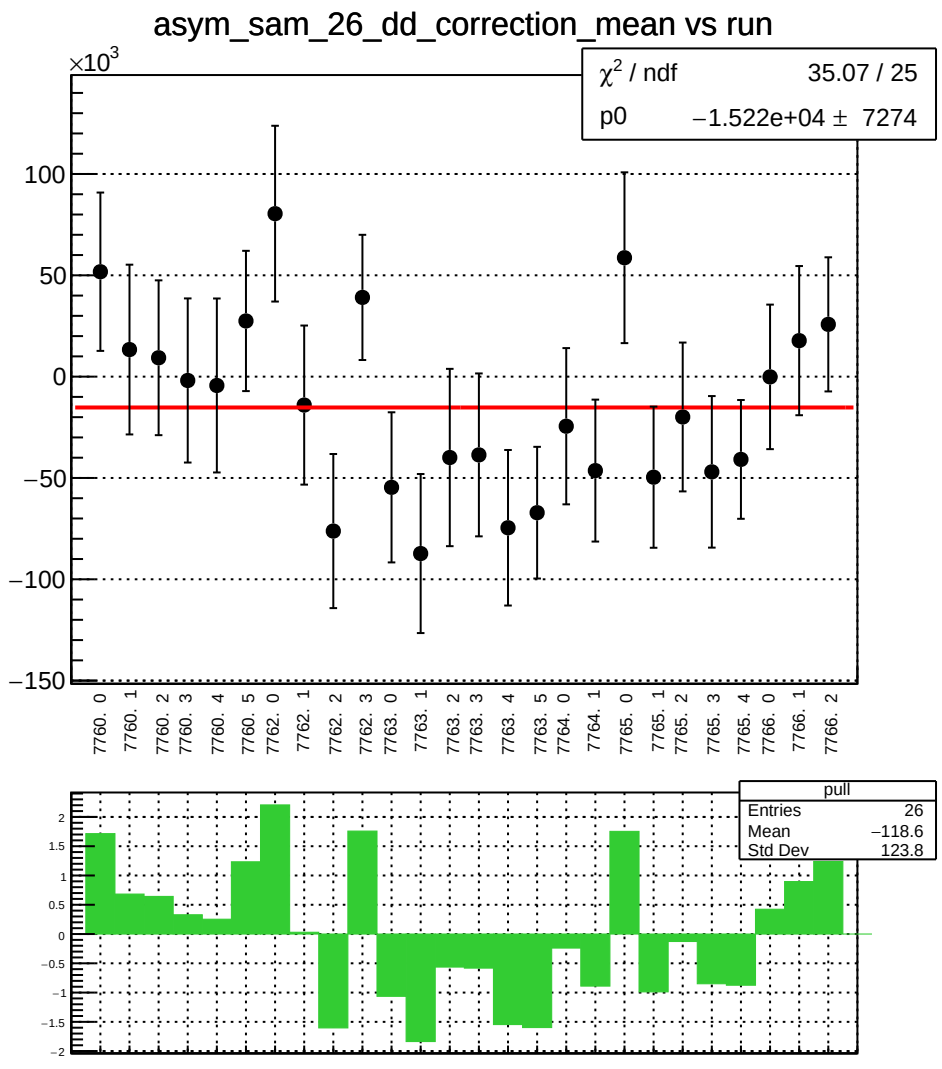

pull1D
Entries 26
Mean −0.01008
Std Dev 0.9752
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

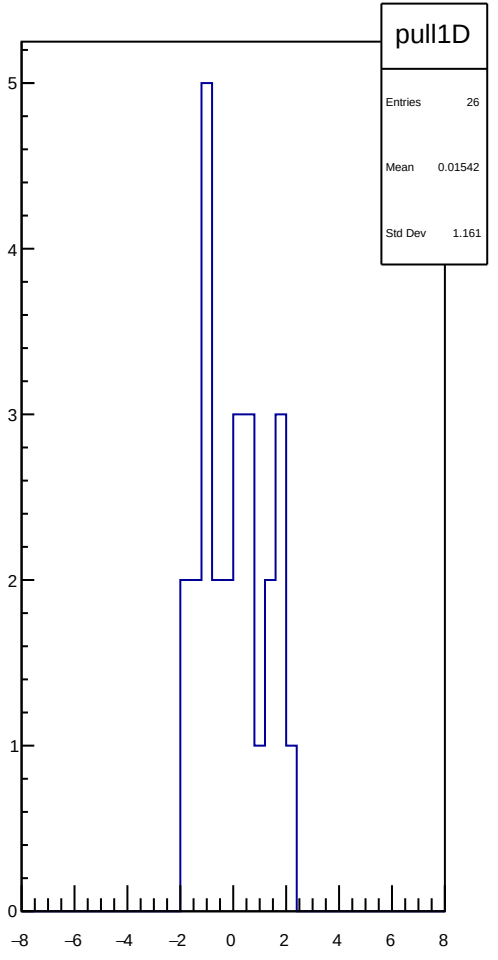

asym_sam_15_dd_rms vs run
χ² / ndf 1812 / 25
p0 564 ± 0.7854
660
640
620
600
580
560
540
520
500
480
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

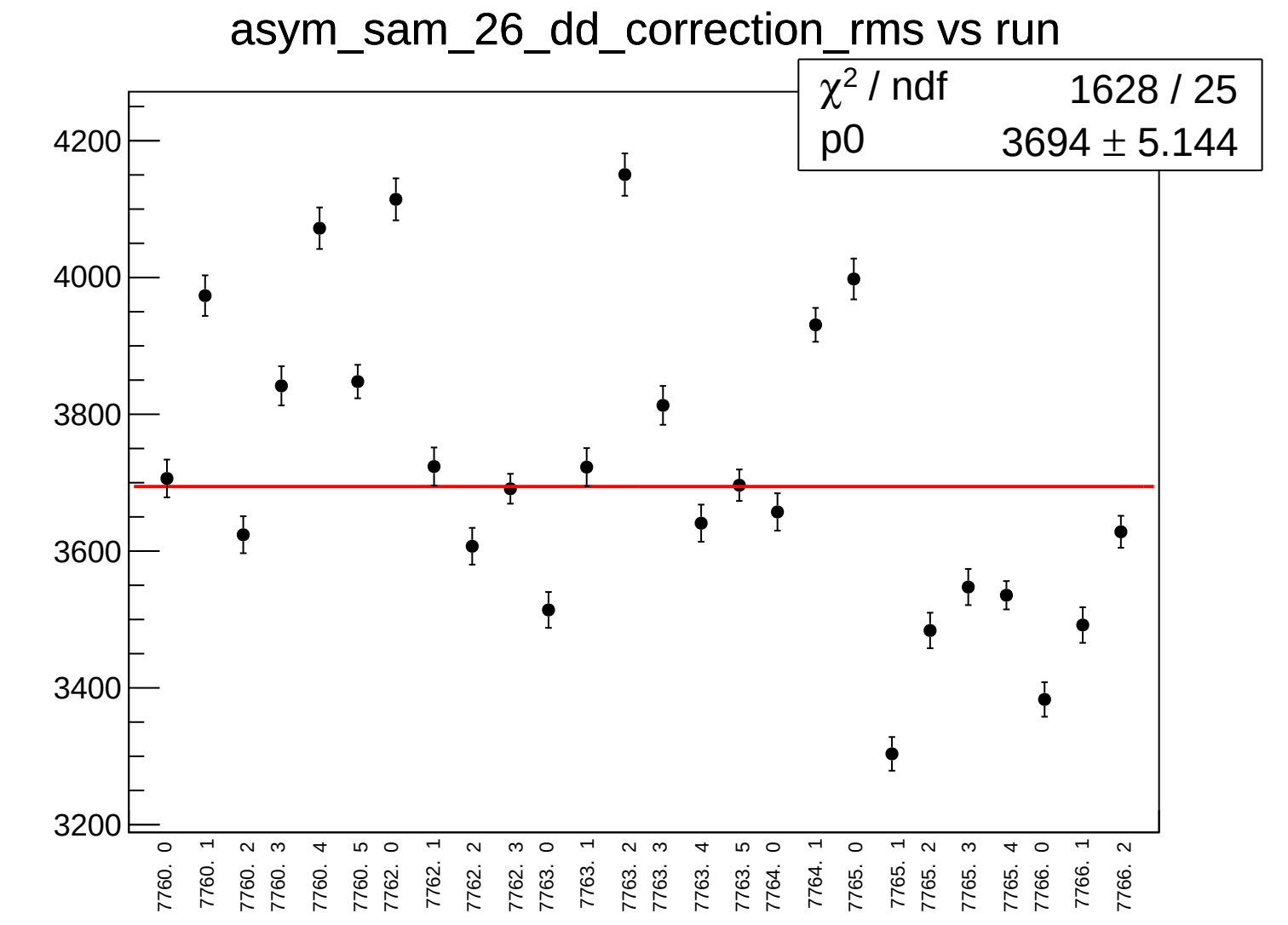

reg_asym_sam_26_dd_mean vs run
χ² / ndf 29.2 / 25
p0 469.9 ± 342.3
6000
4000
2000
0
−2000
−4000
−6000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 51.61
Std Dev 39.42
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

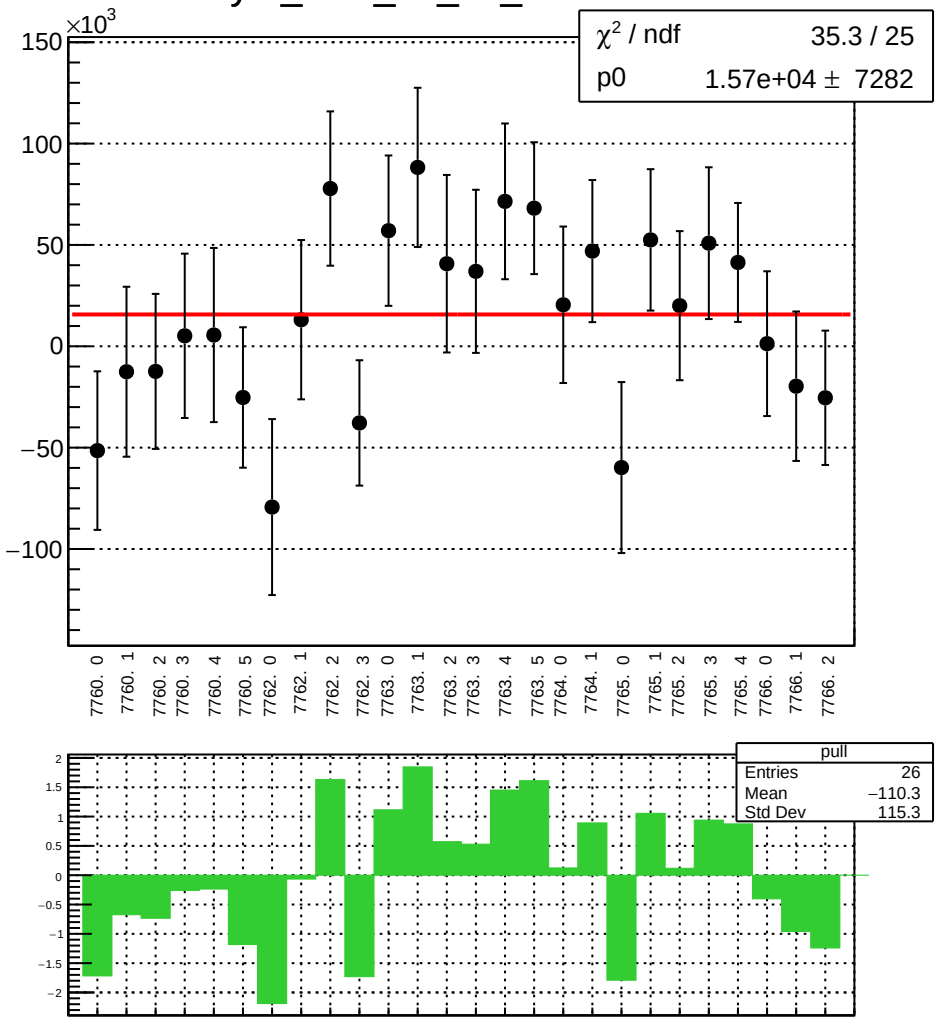

pull1D
Entries 26
Mean −0.01576
Std Dev 1.06
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

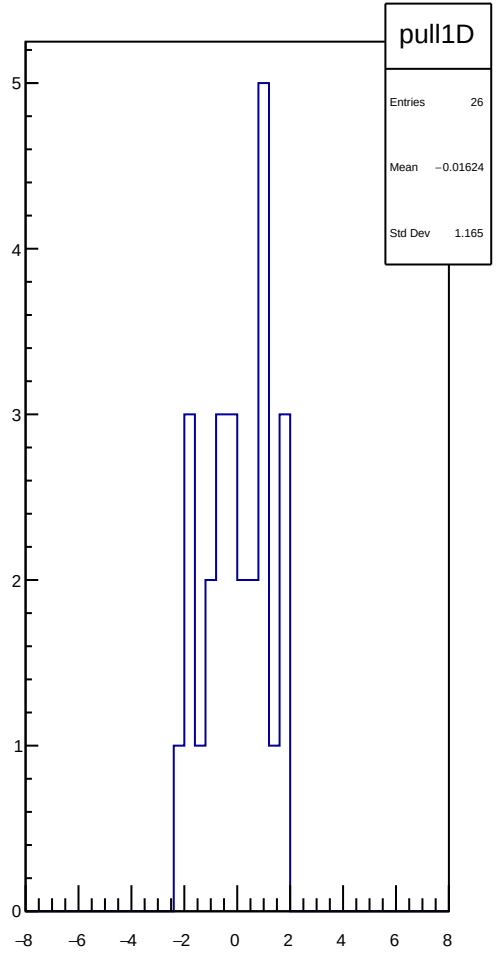

reg_asym_sam_26_dd_rms vs run
χ² / ndf 388.2 / 25
p0 174.1 ± 0.2421
190
185
180
175
170
165
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

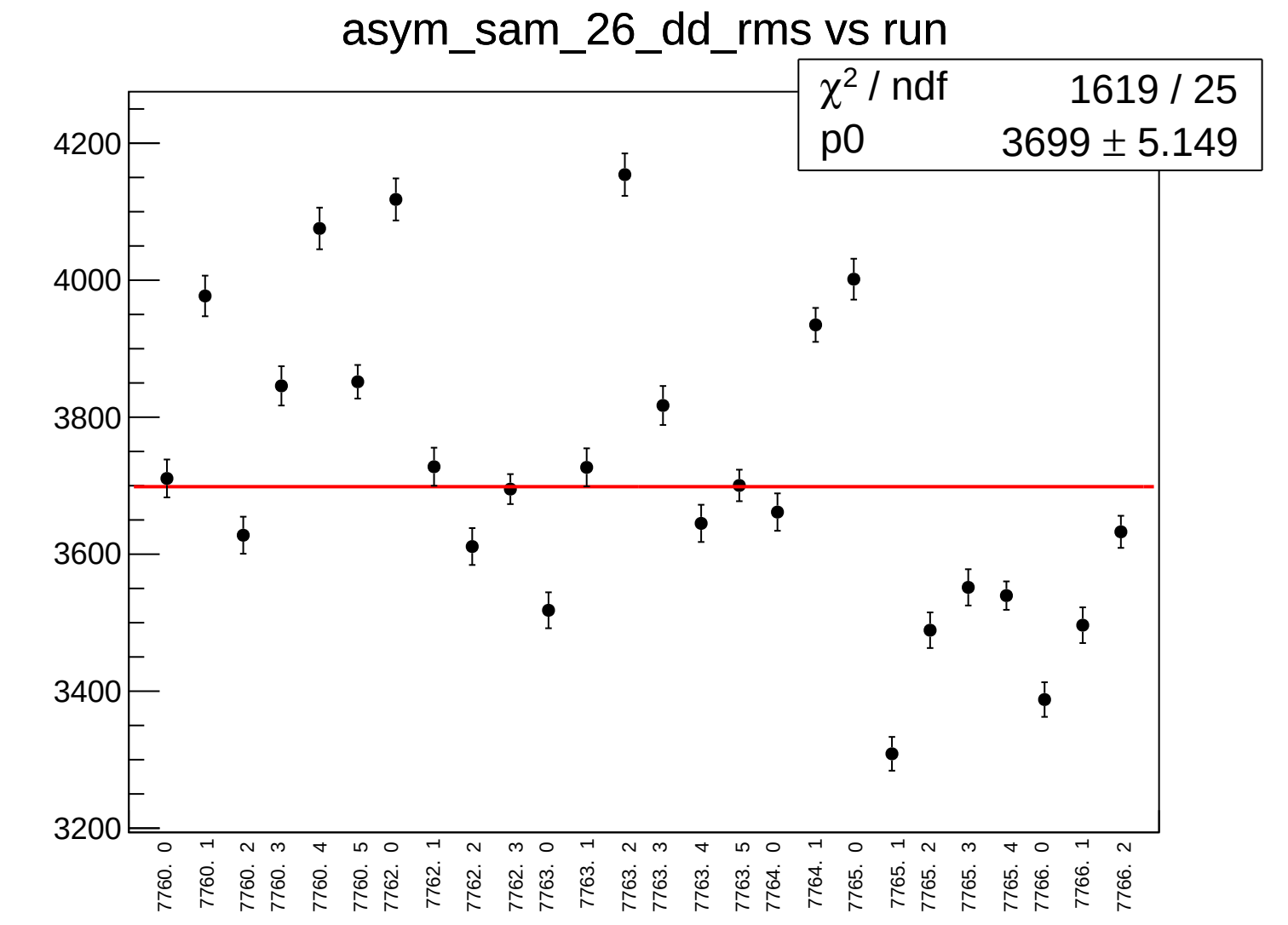

asym_sam_26_dd_correction_mean vs run
×10^3
χ² / ndf 35.07 / 25
p0 −1.522e+04 ± 7274
100
50
0
−50
−100
−150
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −118.6
Std Dev 123.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

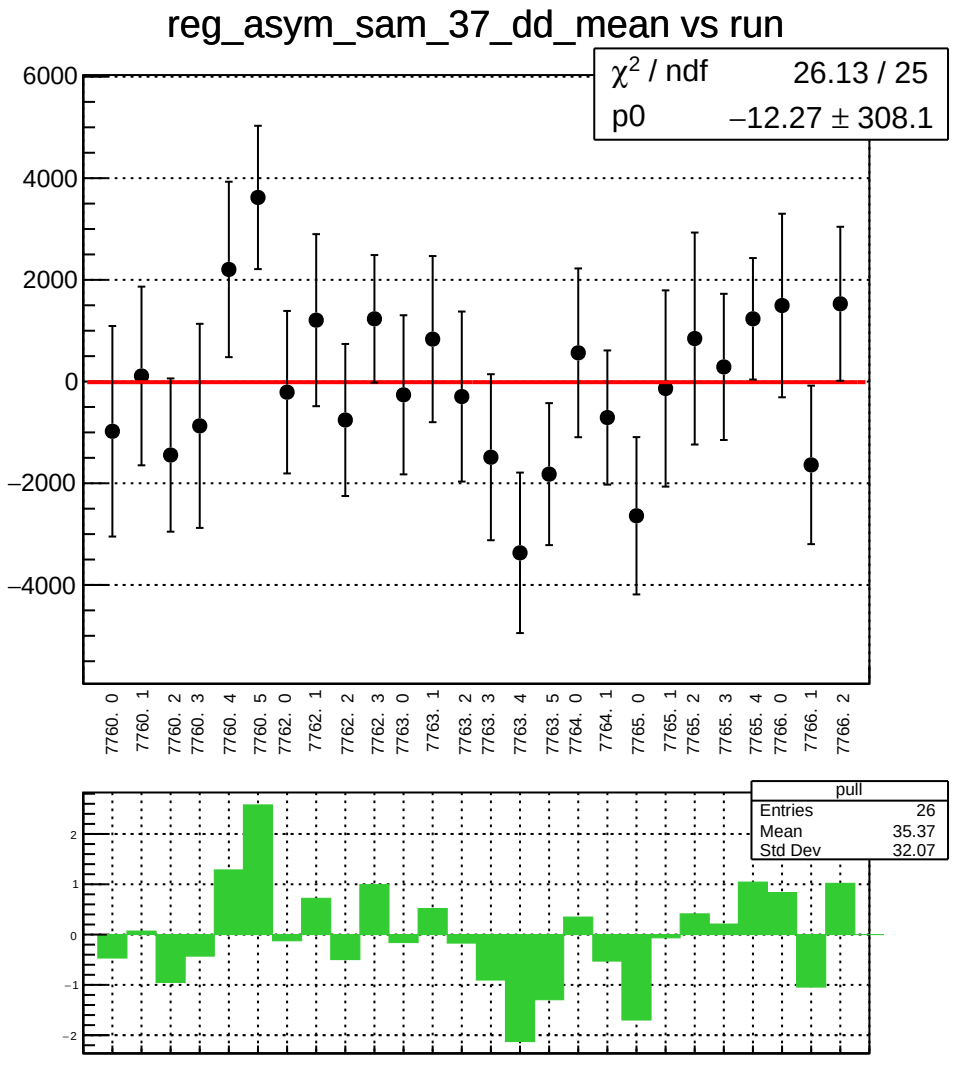

pull1D
Entries 26
Mean 0.01542
Std Dev 1.161
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

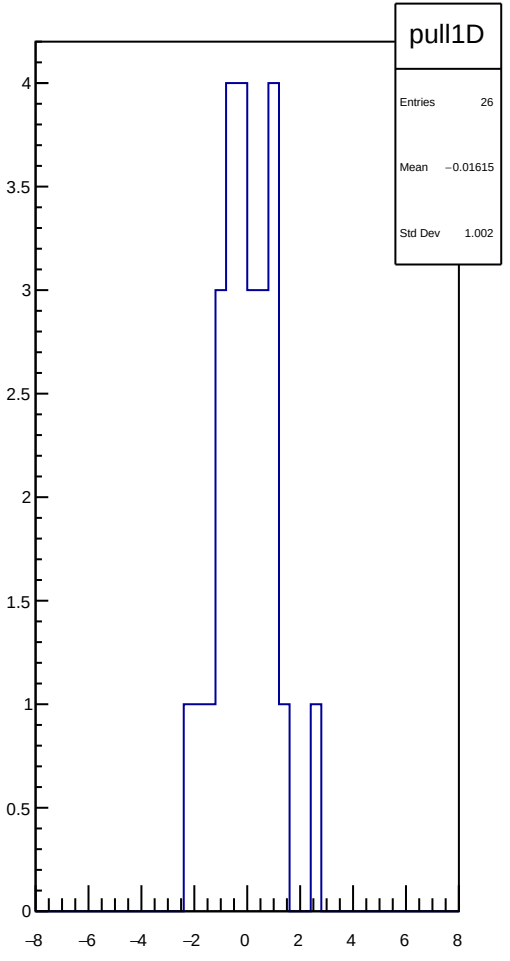

asym_sam_26_dd_correction_rms vs run
χ² / ndf 1628 / 25
p0 3694 ± 5.144
4200
4000
3800
3600
3400
3200
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

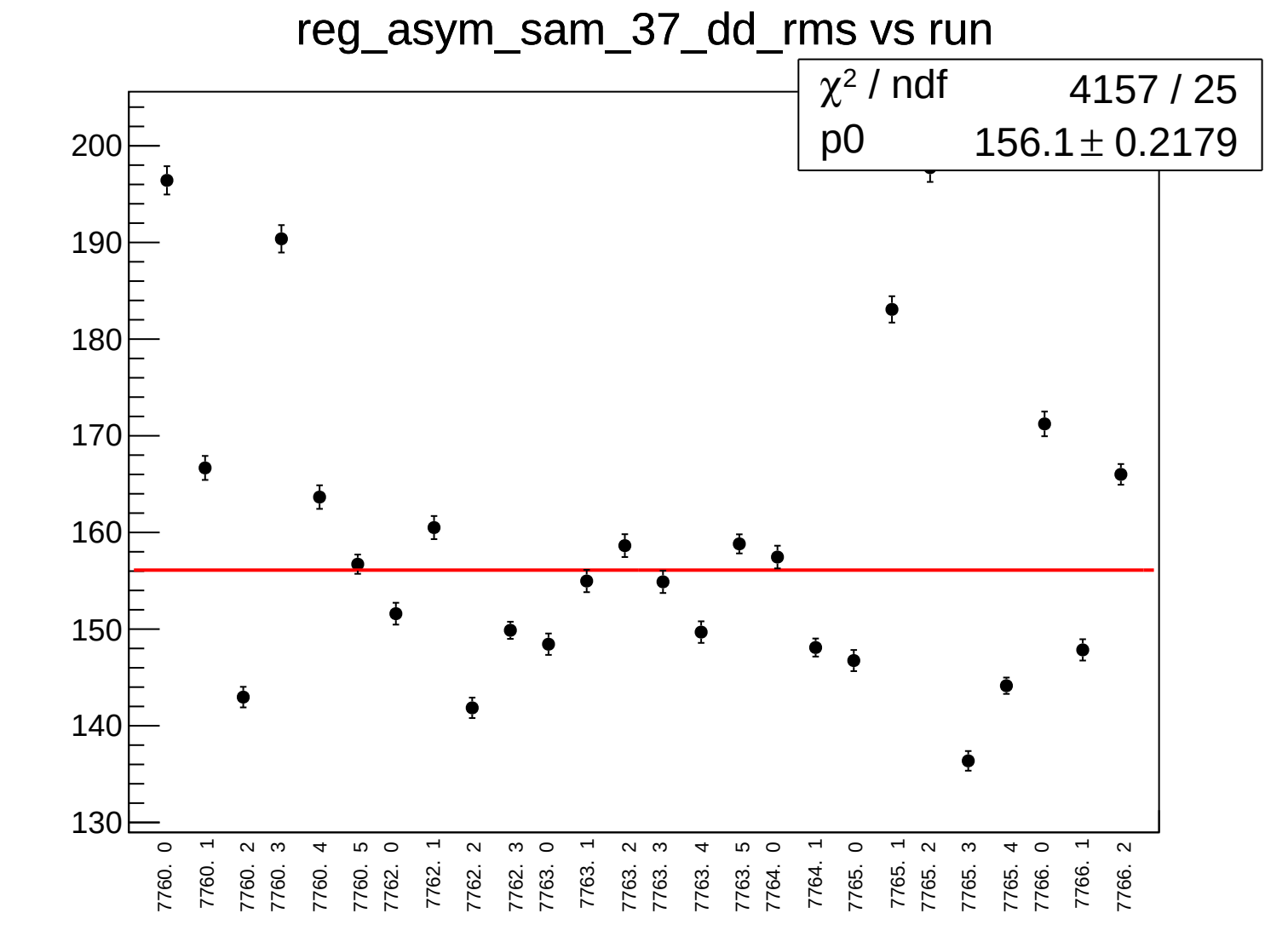

asym_sam_26_dd_mean vs run
×10^3
χ² / ndf 35.3 / 25
p0 1.57e+04 ± 7282
150
100
50
0
−50
−100
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −110.3
Std Dev 115.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

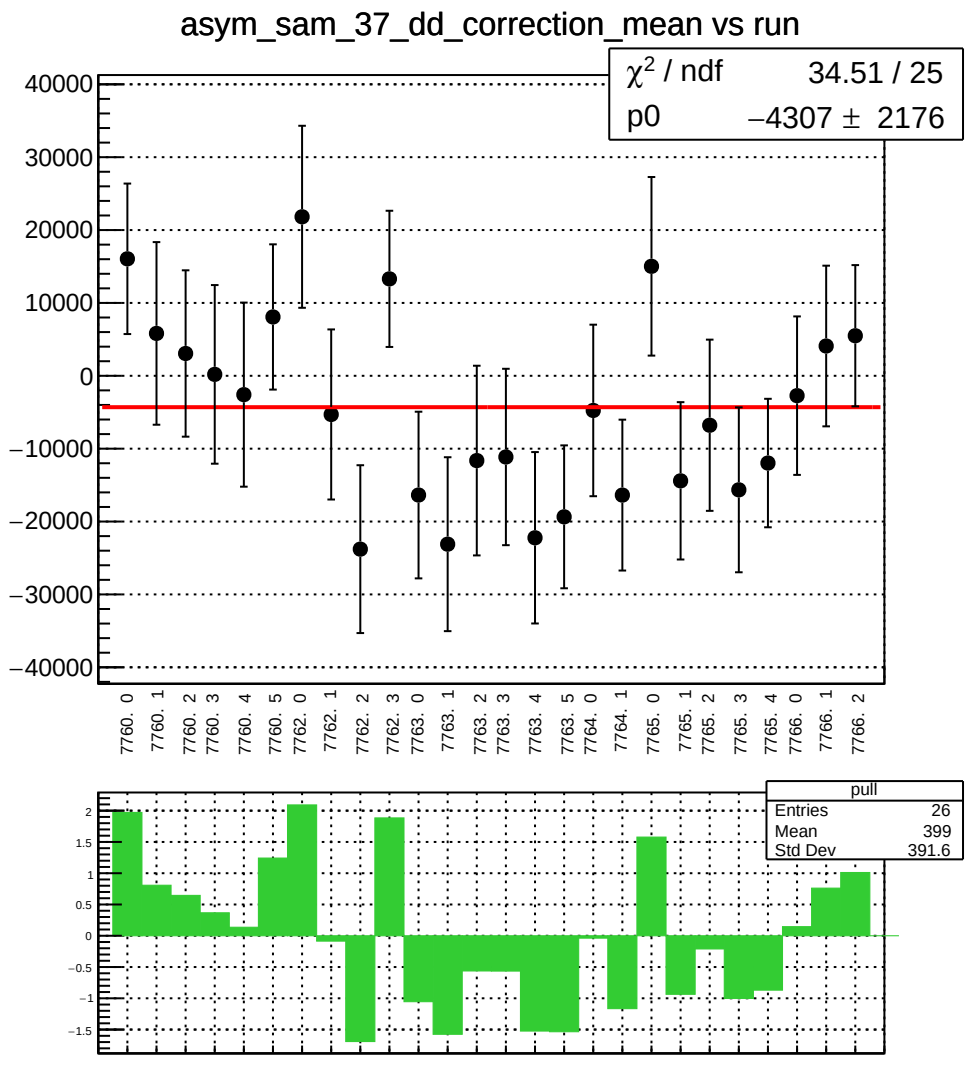

pull1D
Entries 26
Mean −0.01624
Std Dev 1.165
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

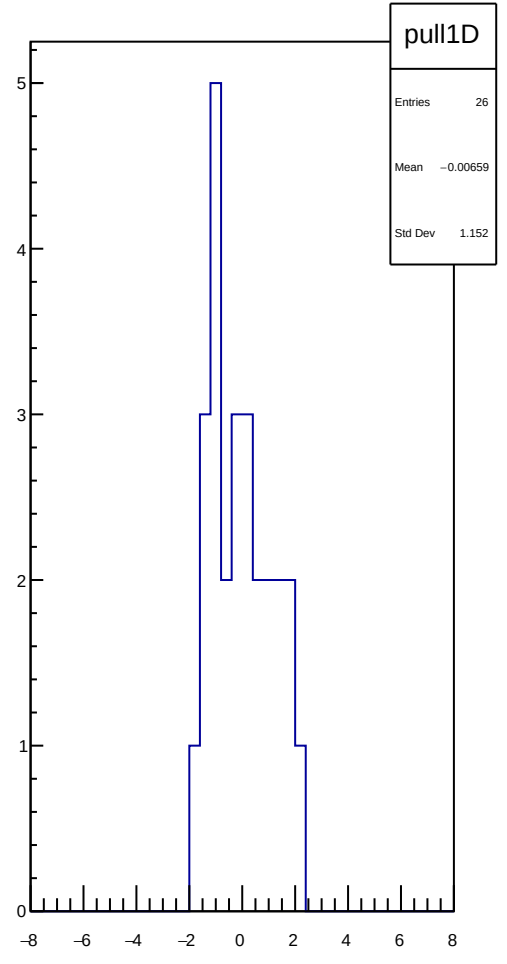

asym_sam_26_dd_rms vs run
χ² / ndf 1619 / 25
p0 3699 ± 5.149
4200
4000
3800
3600
3400
3200
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

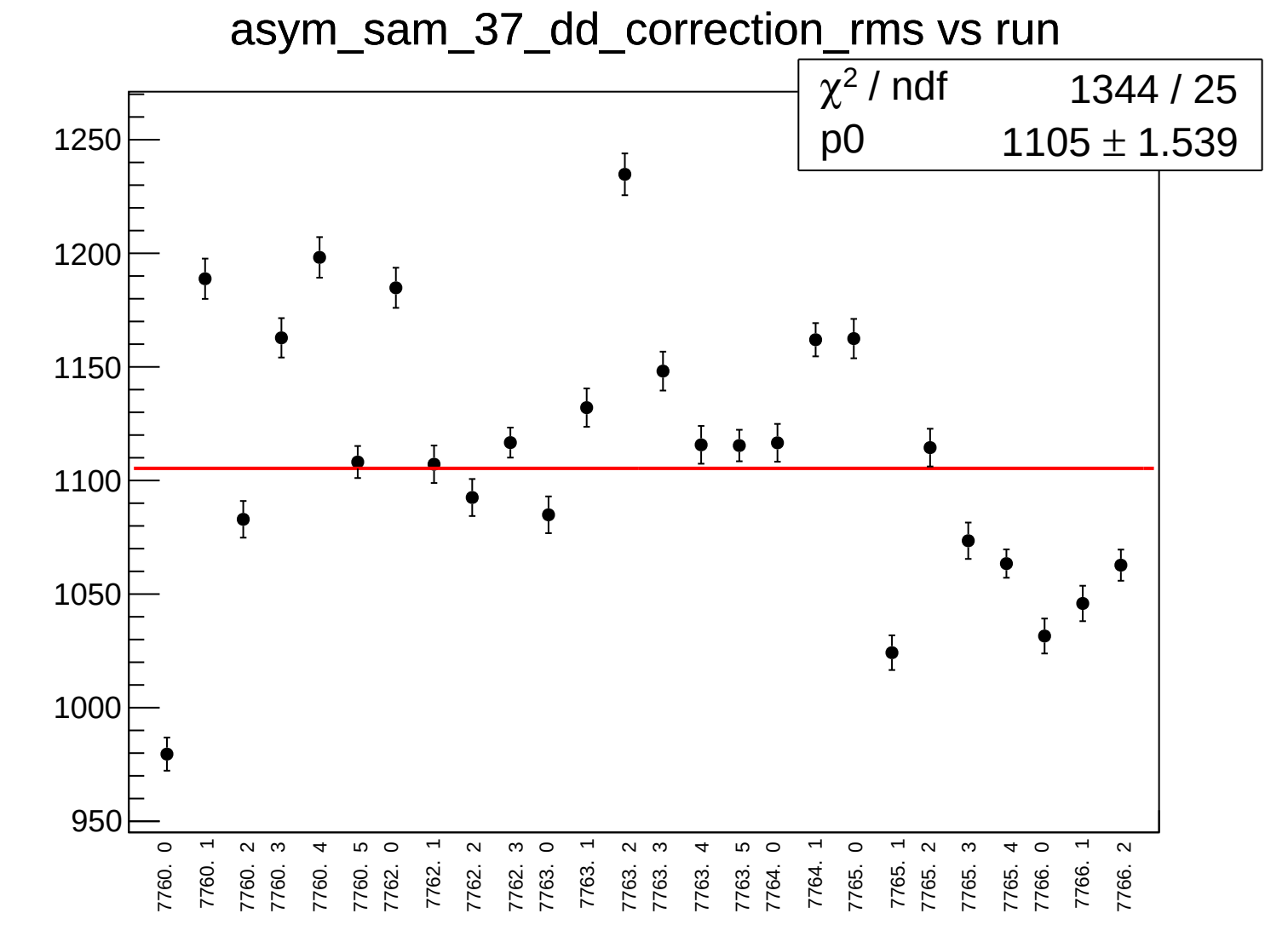

reg_asym_sam_37_dd_mean vs run
χ² / ndf 26.13 / 25
p0 −12.27 ± 308.1
6000
4000
2000
0
−2000
−4000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 35.37
Std Dev 32.07
2
1
0
−1
−2

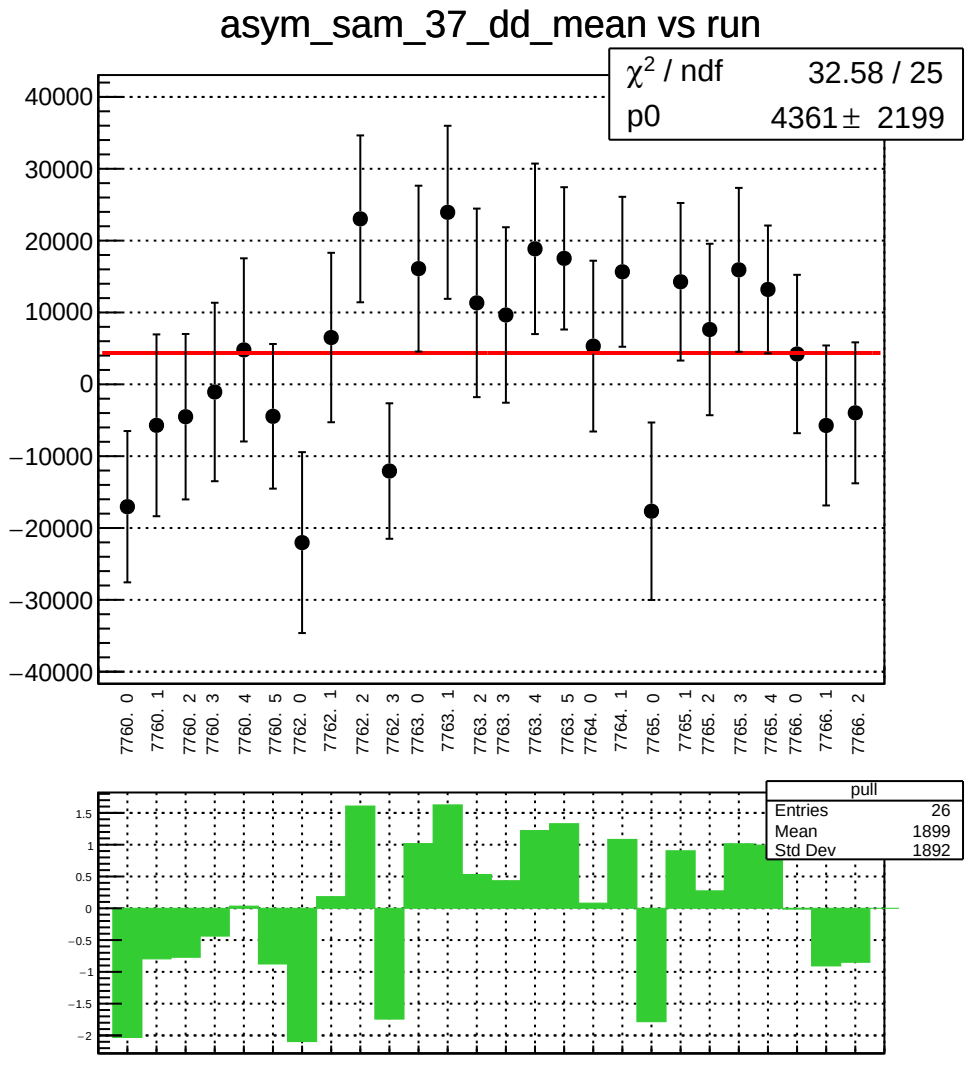

pull1D
Entries 26
Mean −0.01615
Std Dev 1.002
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

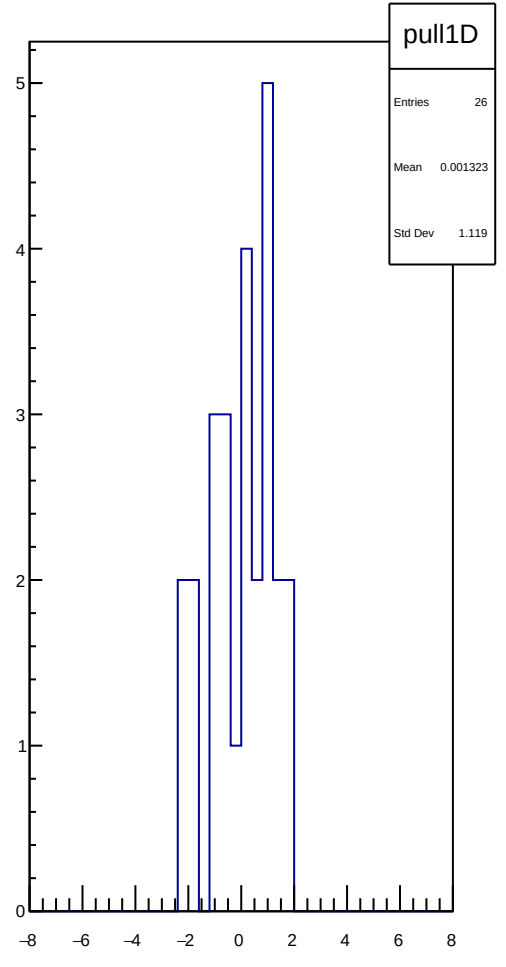

reg_asym_sam_37_dd_rms vs run
χ² / ndf 4157 / 25
p0 156.1 ± 0.2179
200
190
180
170
160
150
140
130
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

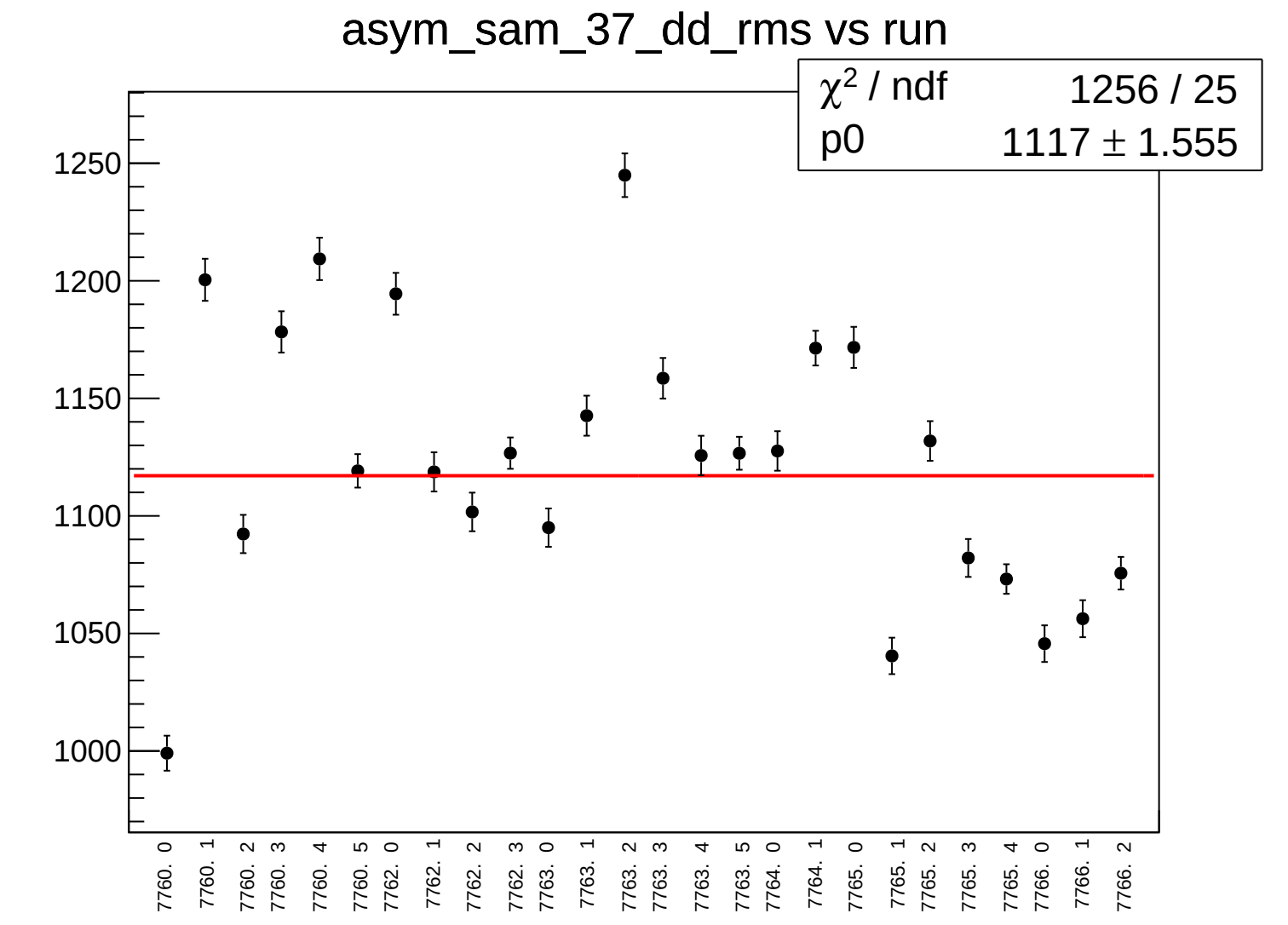

asym_sam_37_dd_correction_mean vs run
χ² / ndf 34.51 / 25
p0 −4307 ± 2176
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 399
Std Dev 391.6
2
1.5
1
0.5
0
−0.5
−1
−1.5

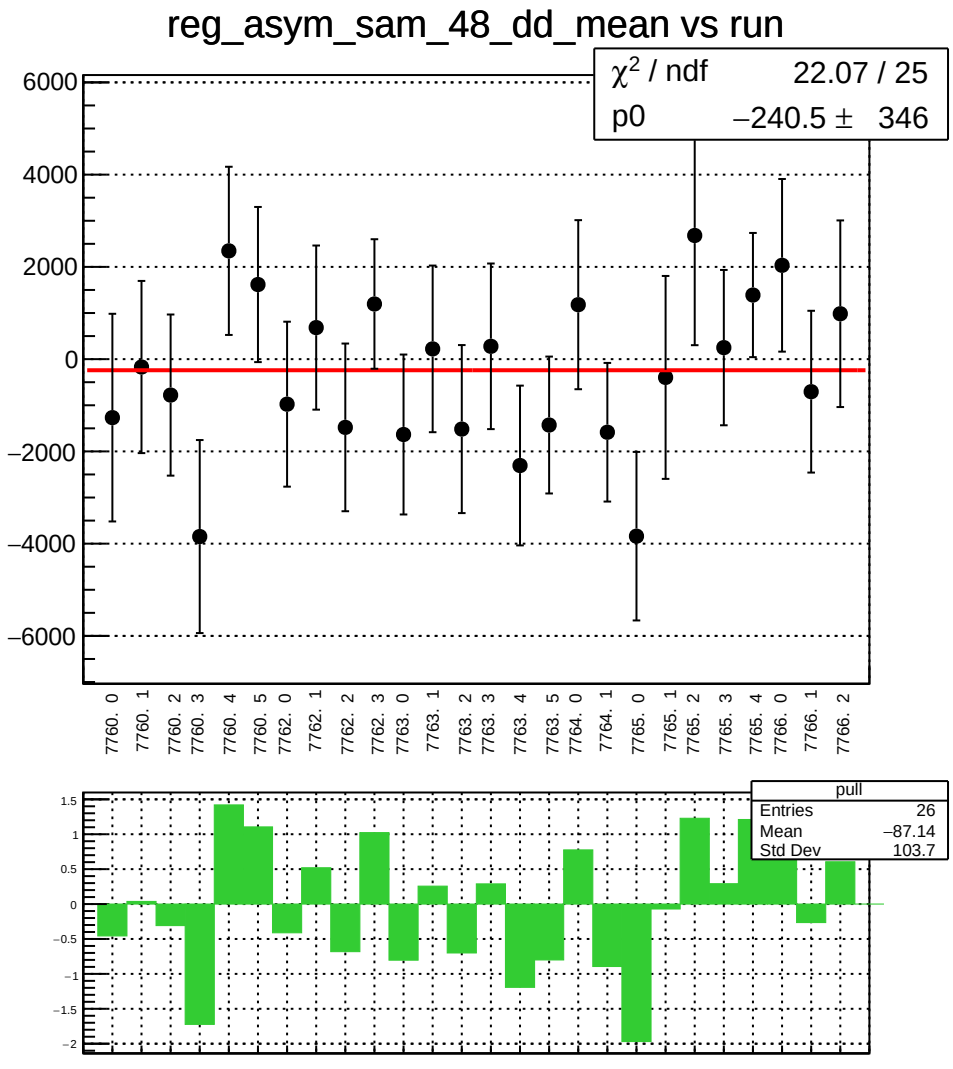

pull1D
Entries 26
Mean −0.00659
Std Dev 1.152
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

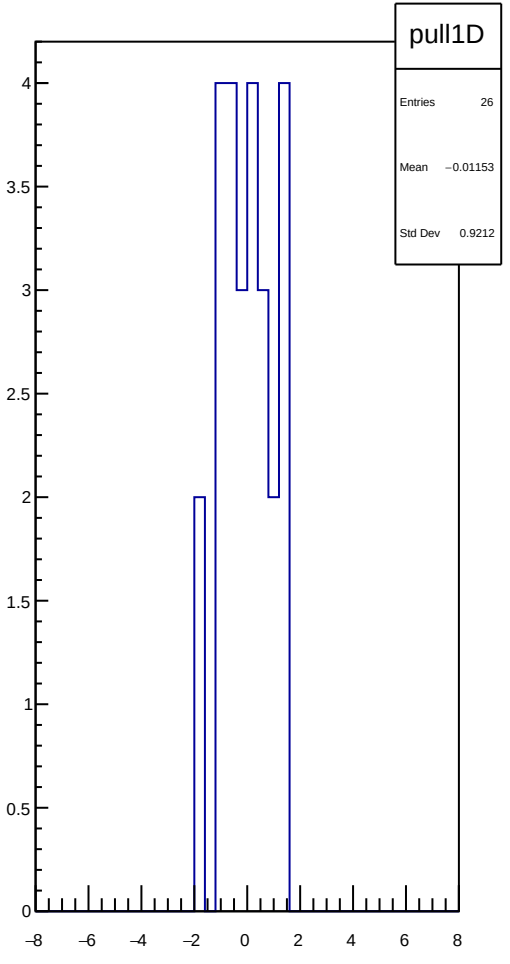

asym_sam_37_dd_correction_rms vs run
χ² / ndf 1344 / 25
p0 1105 ± 1.539
1250
1200
1150
1100
1050
1000
950
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

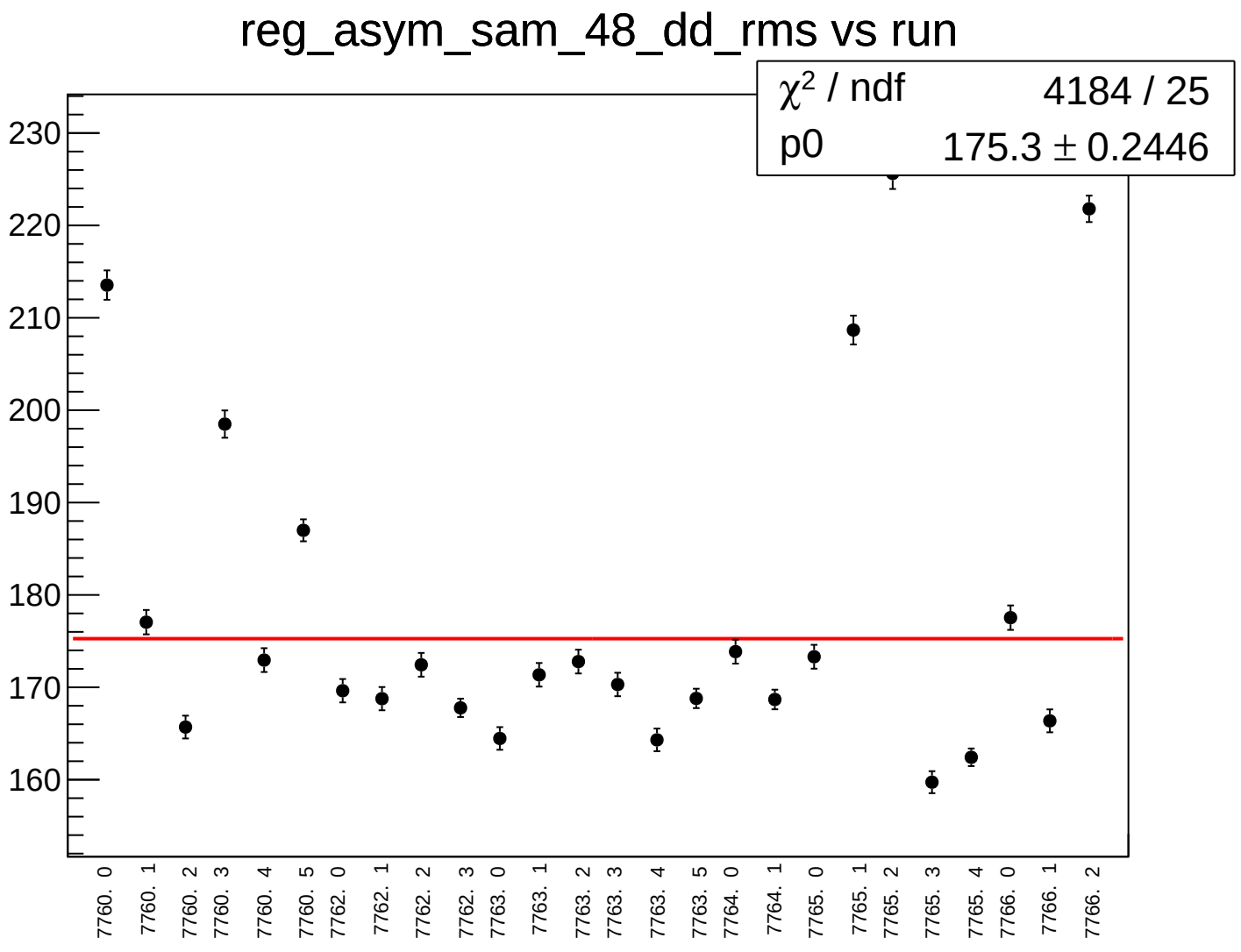

asym_sam_37_dd_mean vs run
χ² / ndf 32.58 / 25
p0 4361 ± 2199
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 1899
Std Dev 1892
1.5
1
0.5
0
−0.5
−1
−1.5
−2

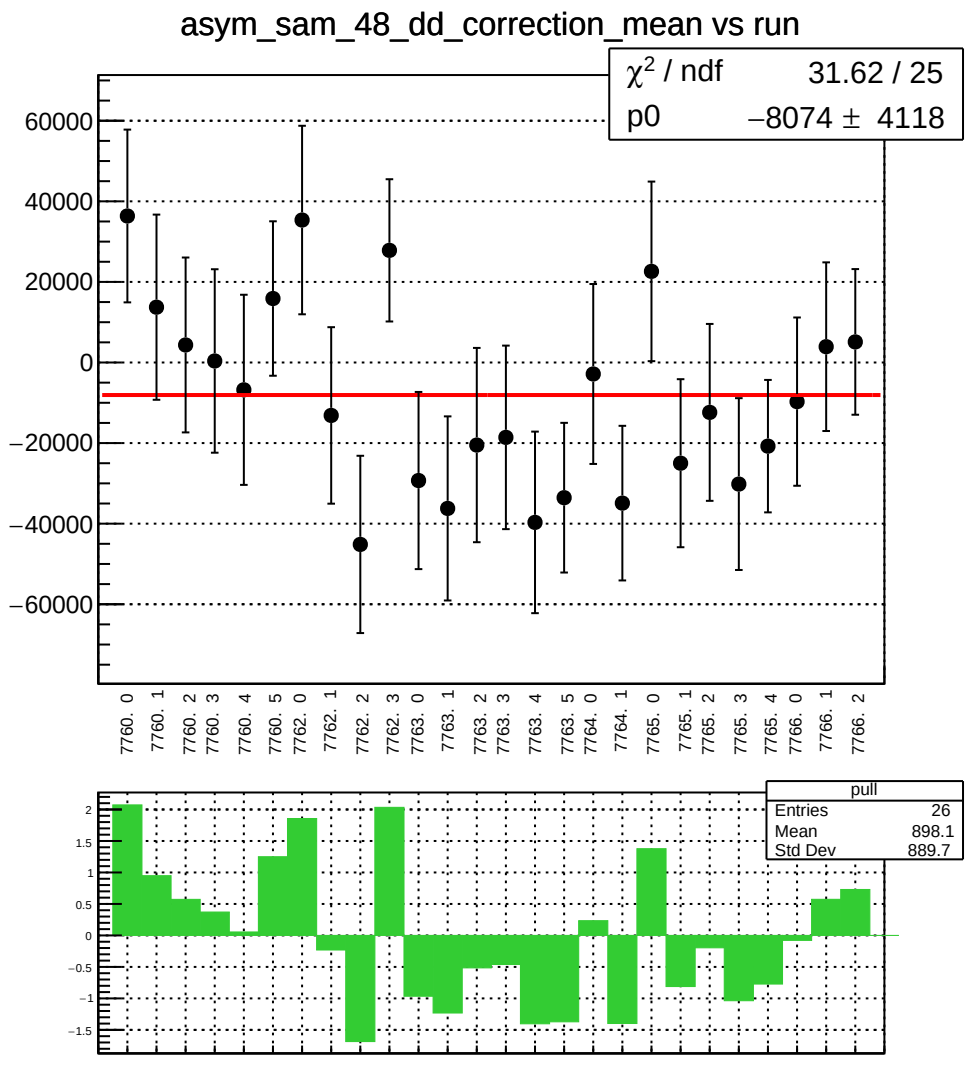

pull1D
Entries 26
Mean 0.001323
Std Dev 1.119
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

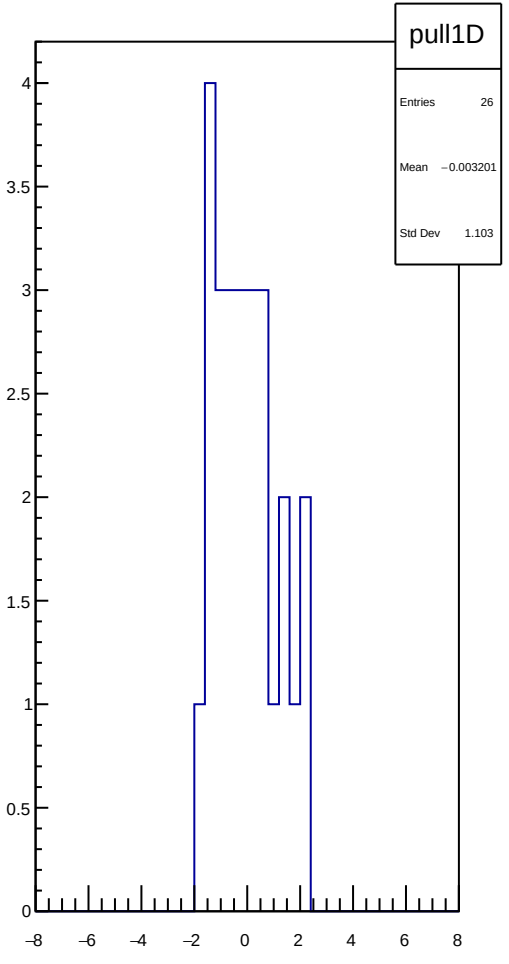

asym_sam_37_dd_rms vs run
χ² / ndf 1256 / 25
p0 1117 ± 1.555
1250
1200
1150
1100
1050
1000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

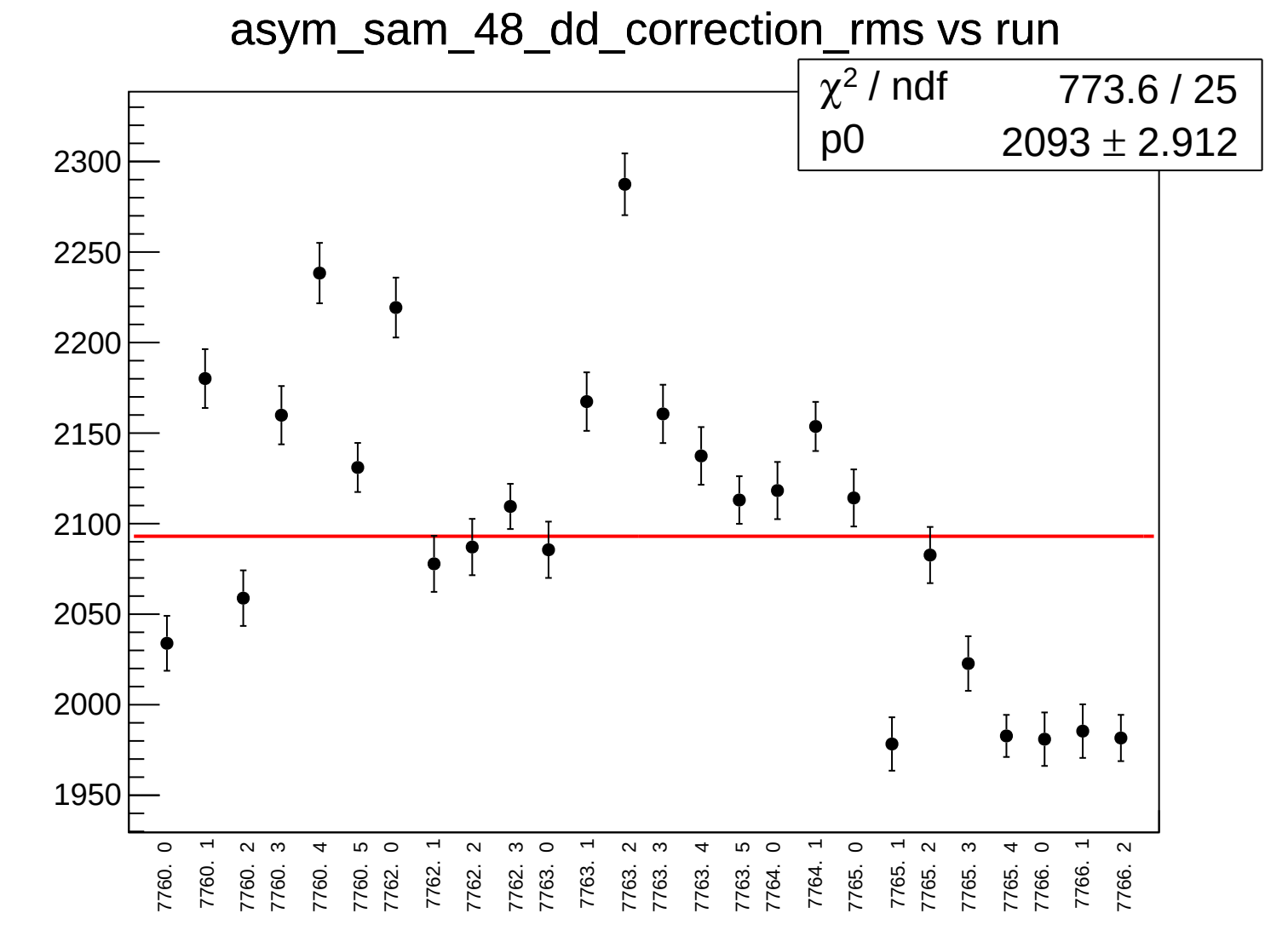

reg_asym_sam_48_dd_mean vs run
χ² / ndf 22.07 / 25
p0 −240.5 ± 346
6000
4000
2000
0
−2000
−4000
−6000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −87.14
Std Dev 103.7
1.5
1
0.5
0
−0.5
−1
−1.5
−2

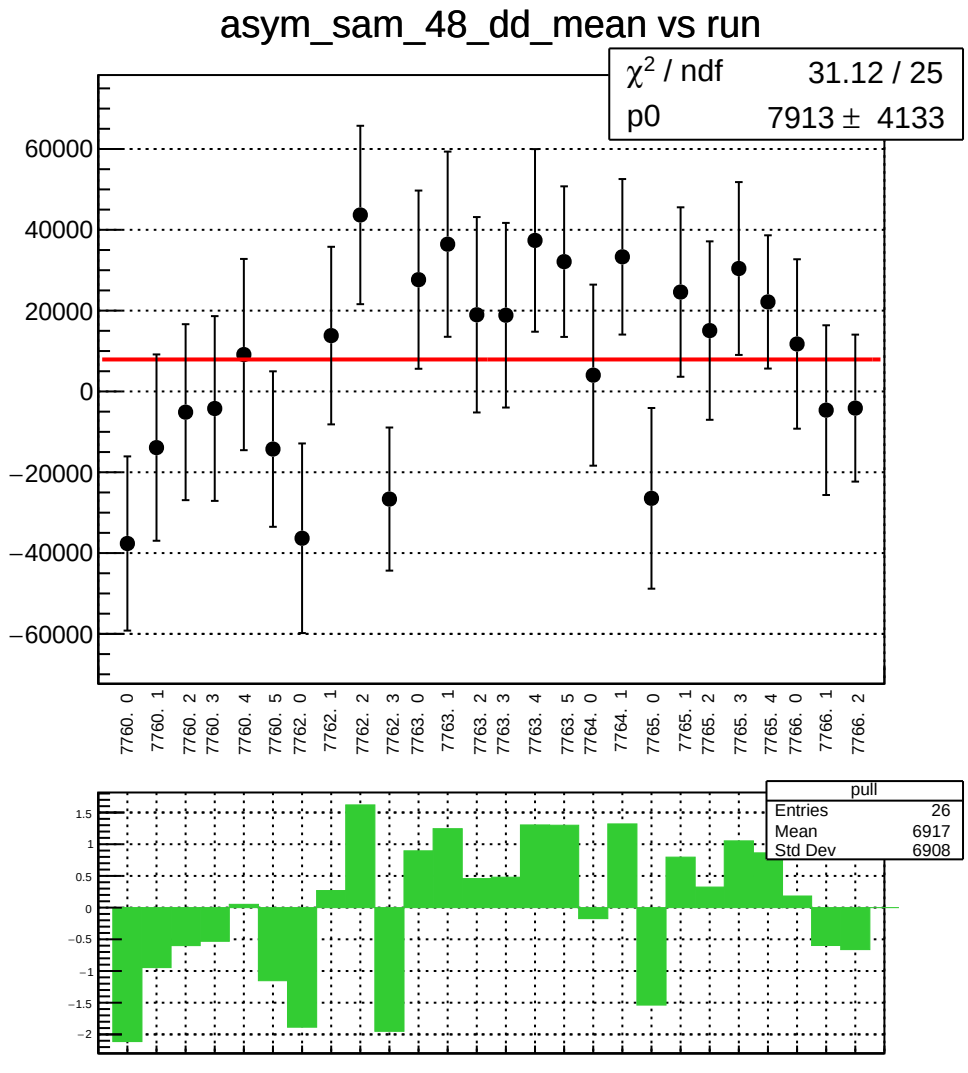

pull1D
Entries 26
Mean −0.01153
Std Dev 0.9212
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

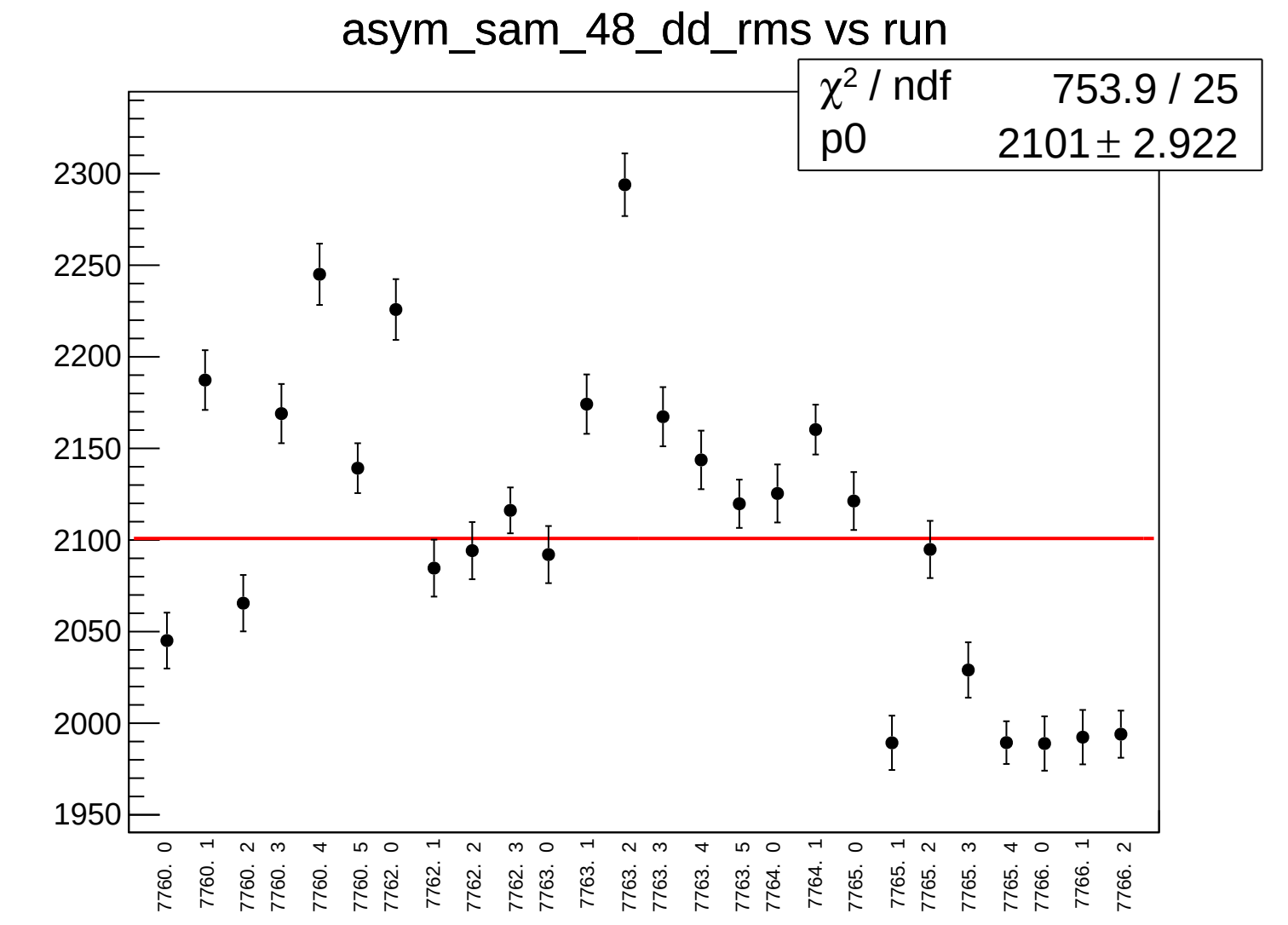

reg_asym_sam_48_dd_rms vs run
χ² / ndf 4184 / 25
p0 175.3 ± 0.2446
230
220
210
200
190
180
170
160
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

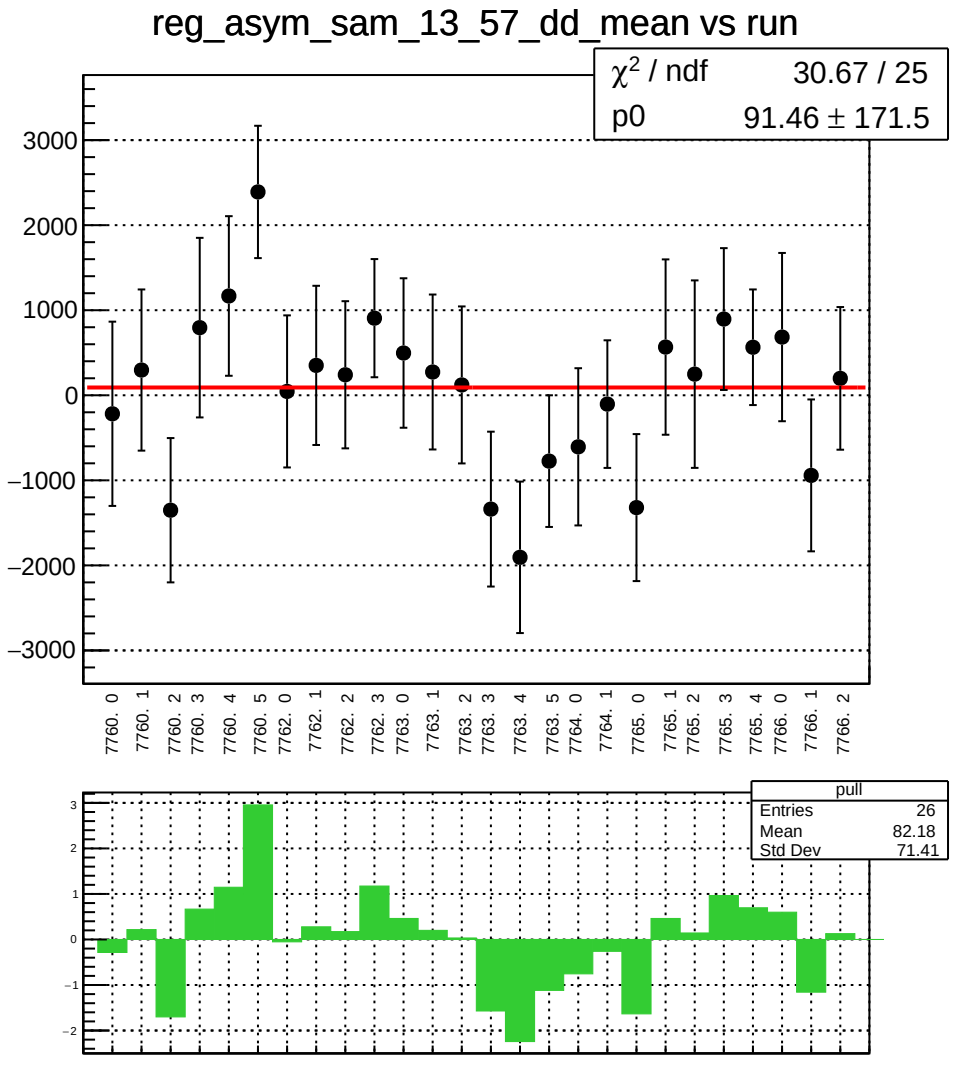

asym_sam_48_dd_correction_mean vs run
χ² / ndf 31.62 / 25
p0 −8074 ± 4118
60000
40000
20000
0
−20000
−40000
−60000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 898.1
Std Dev 889.7
2
1.5
1
0.5
0
−0.5
−1
−1.5

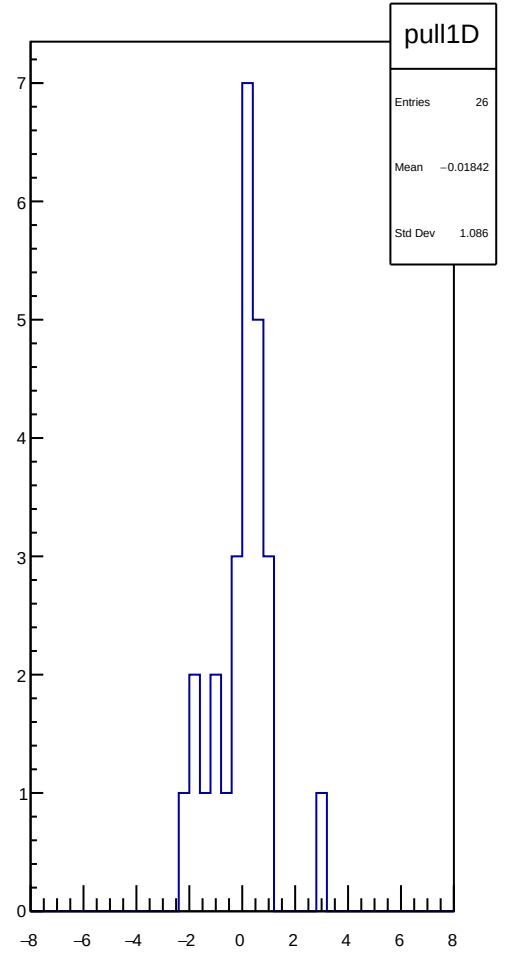

pull1D
Entries 26
Mean −0.003201
Std Dev 1.103
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

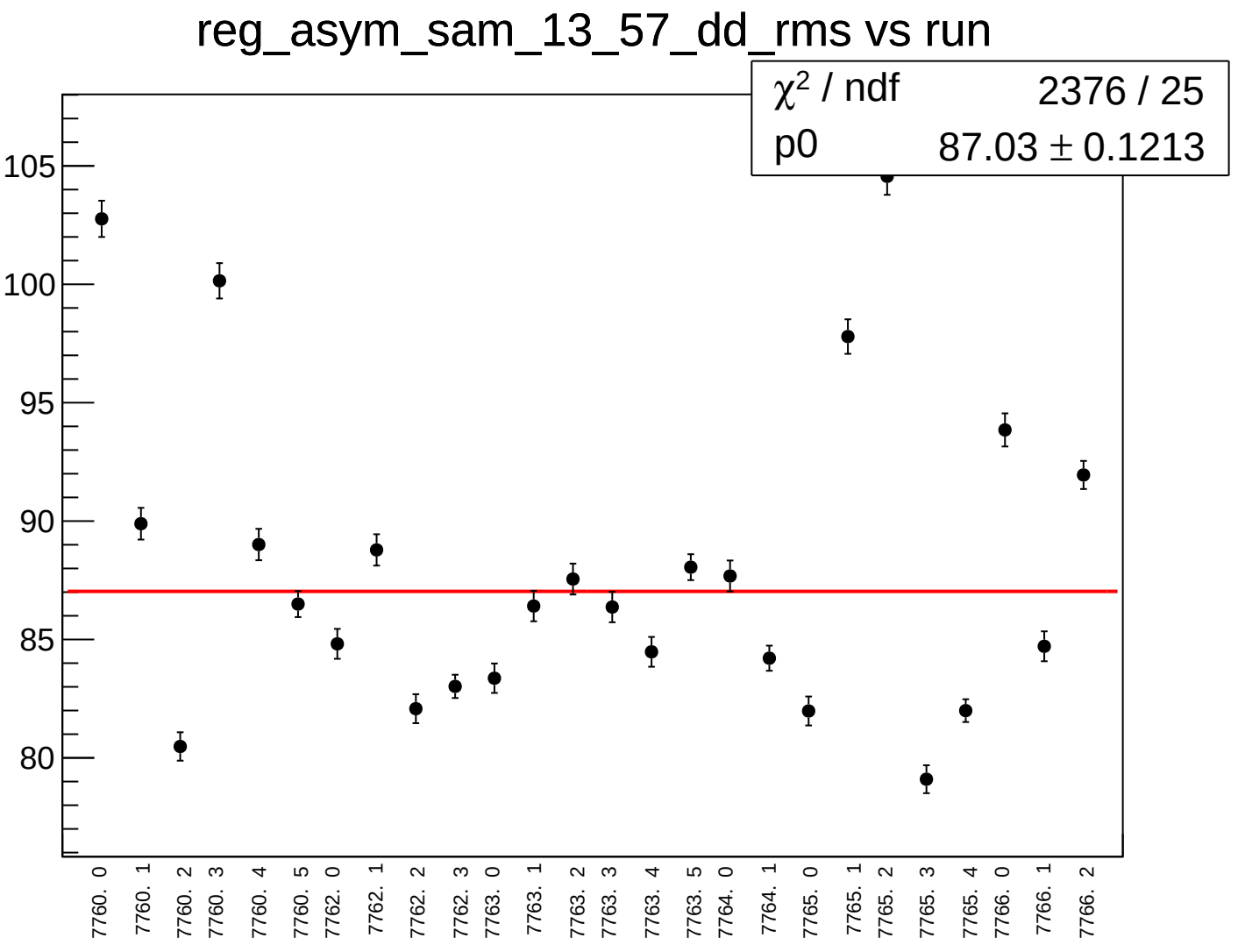

asym_sam_48_dd_correction_rms vs run
χ² / ndf 773.6 / 25
p0 2093 ± 2.912
2300
2250
2200
2150
2100
2050
2000
1950
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

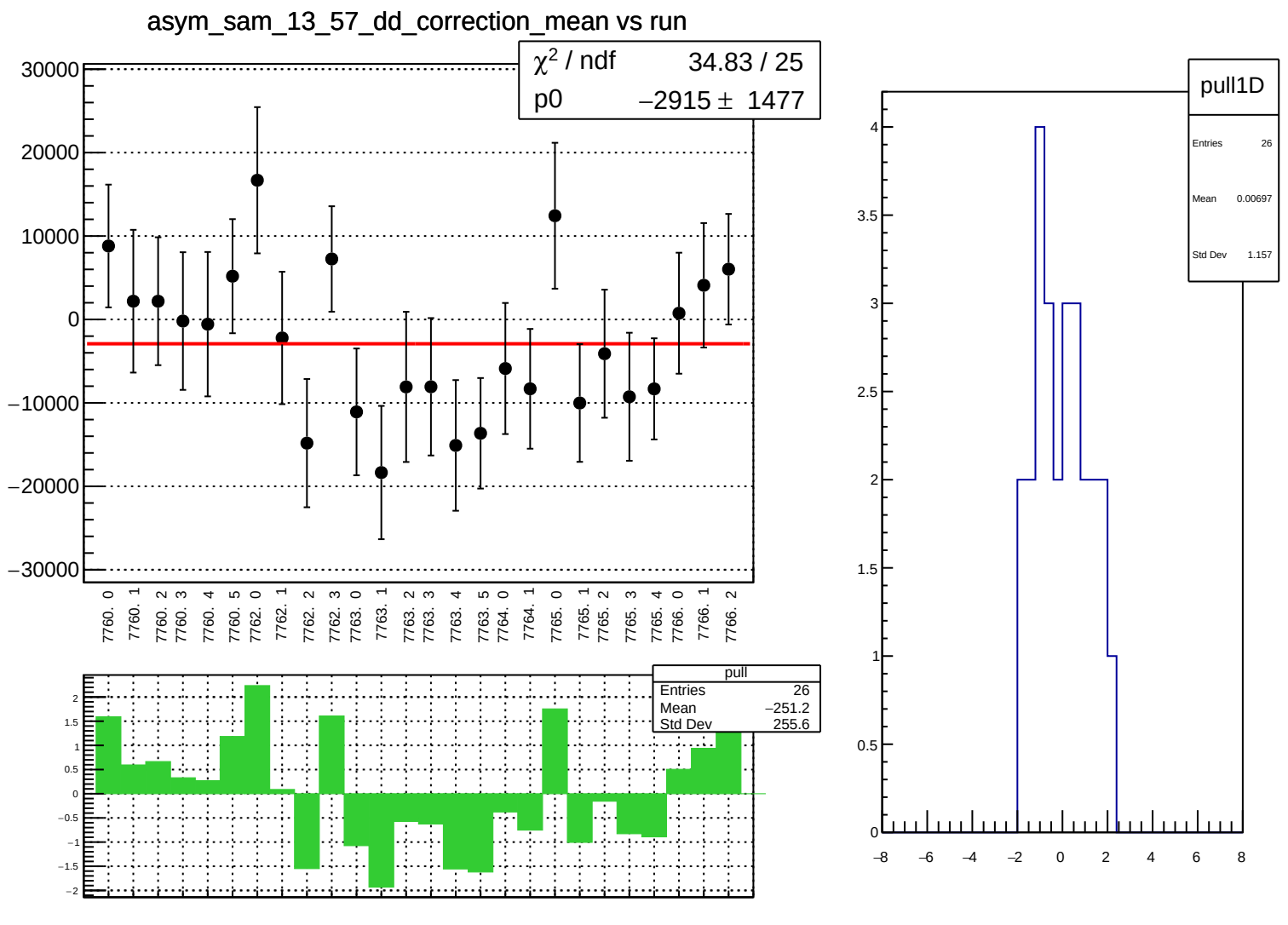

asym_sam_48_dd_mean vs run
χ² / ndf 31.12 / 25
p0 7913 ± 4133
60000
40000
20000
0
−20000
−40000
−60000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 6917
Std Dev 6908
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 26
Mean 0.0004271
Std Dev 1.094
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

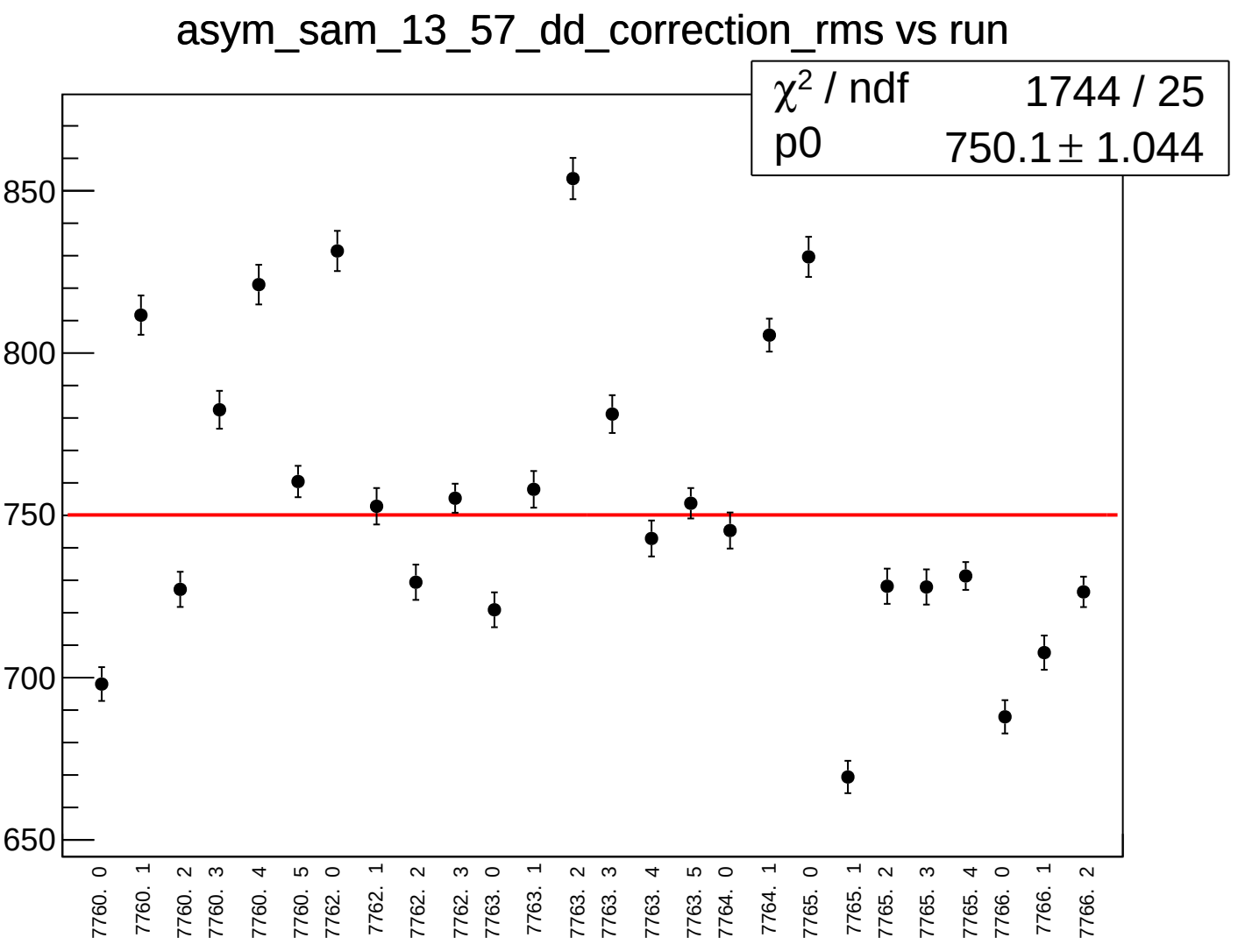

asym_sam_48_dd_rms vs run
χ² / ndf 753.9 / 25
p0 2101 ± 2.922
2300
2250
2200
2150
2100
2050
2000
1950
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

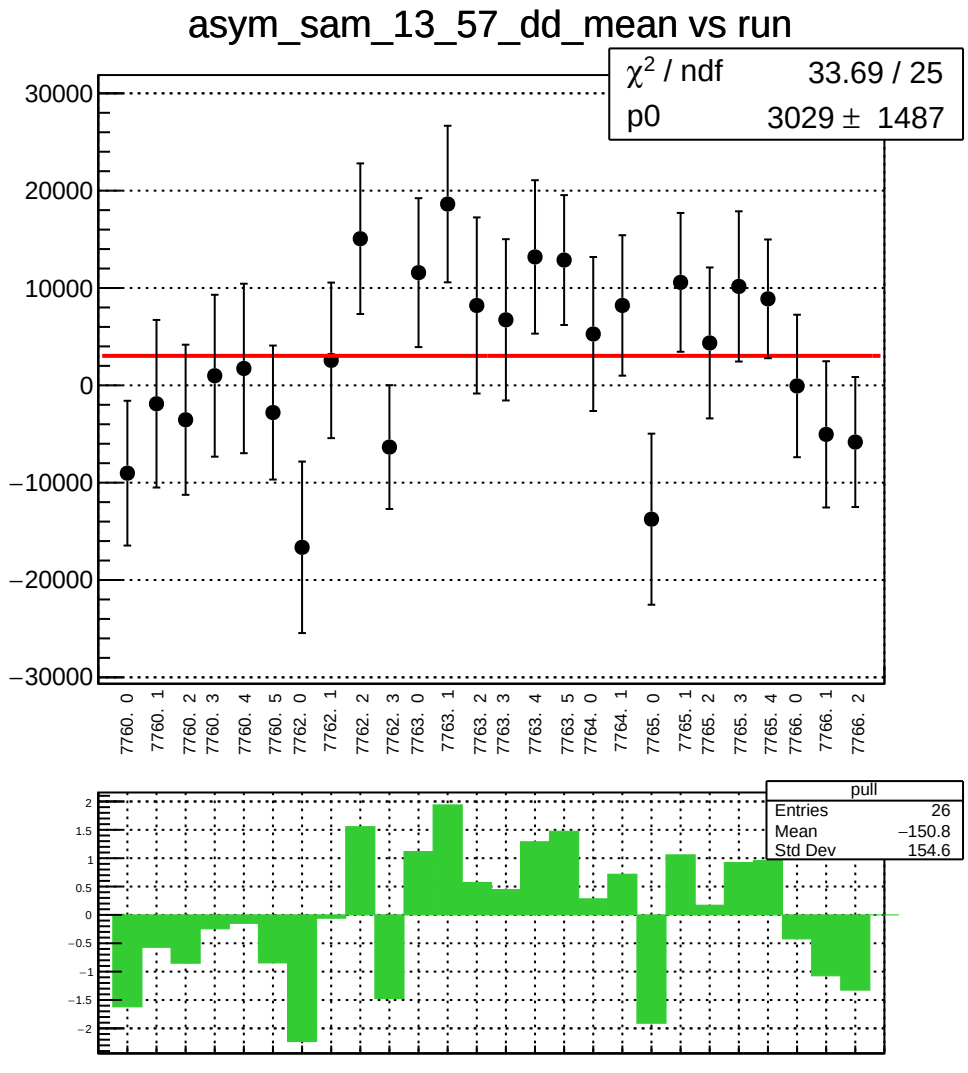

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 30.67 / 25
p0 91.46 ± 171.5
3000
2000
1000
0
−1000
−2000
−3000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 82.18
Std Dev 71.41
3
2
1
0
−1
−2

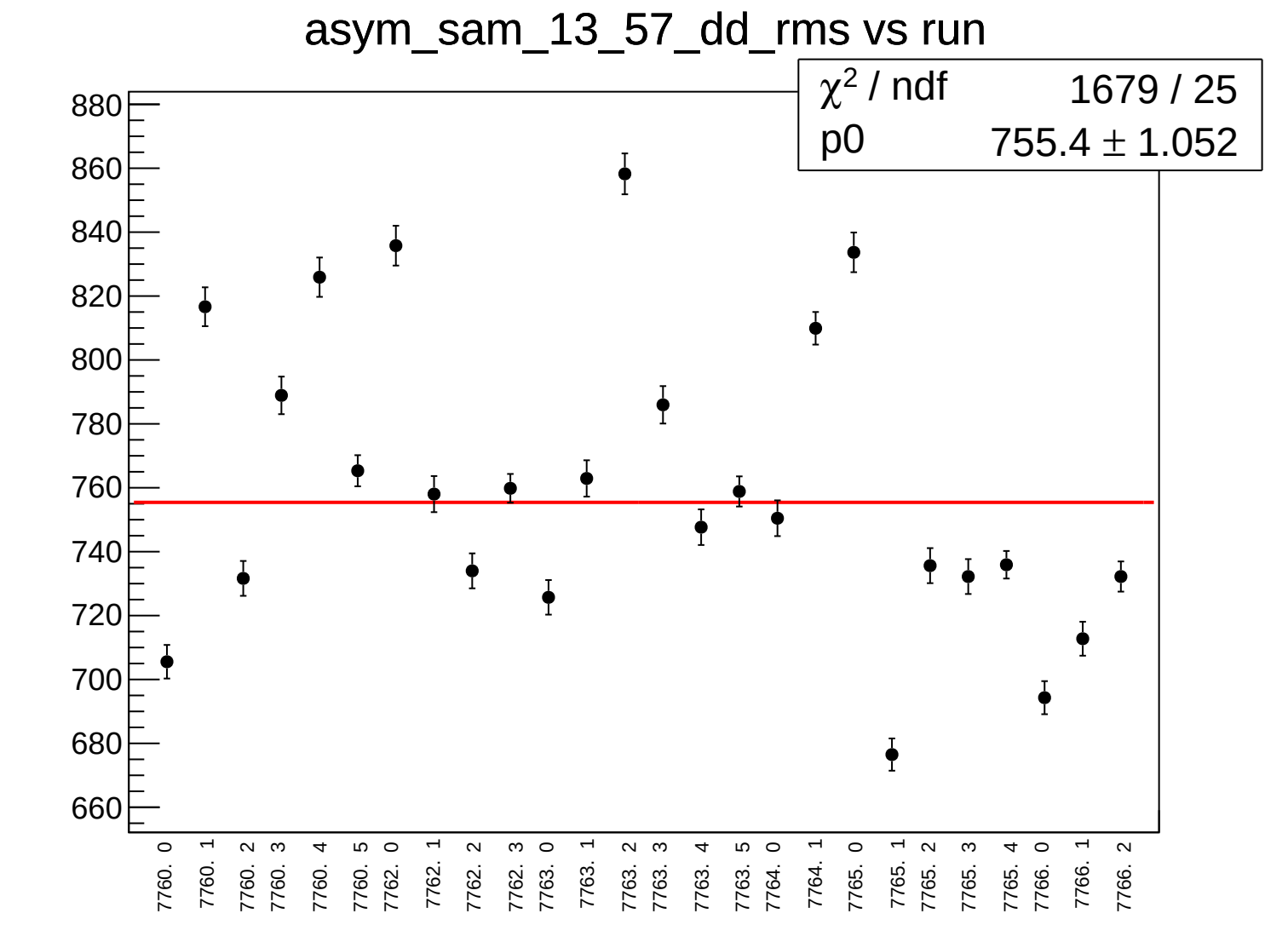

pull1D
Entries 26
Mean −0.01842
Std Dev 1.086
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

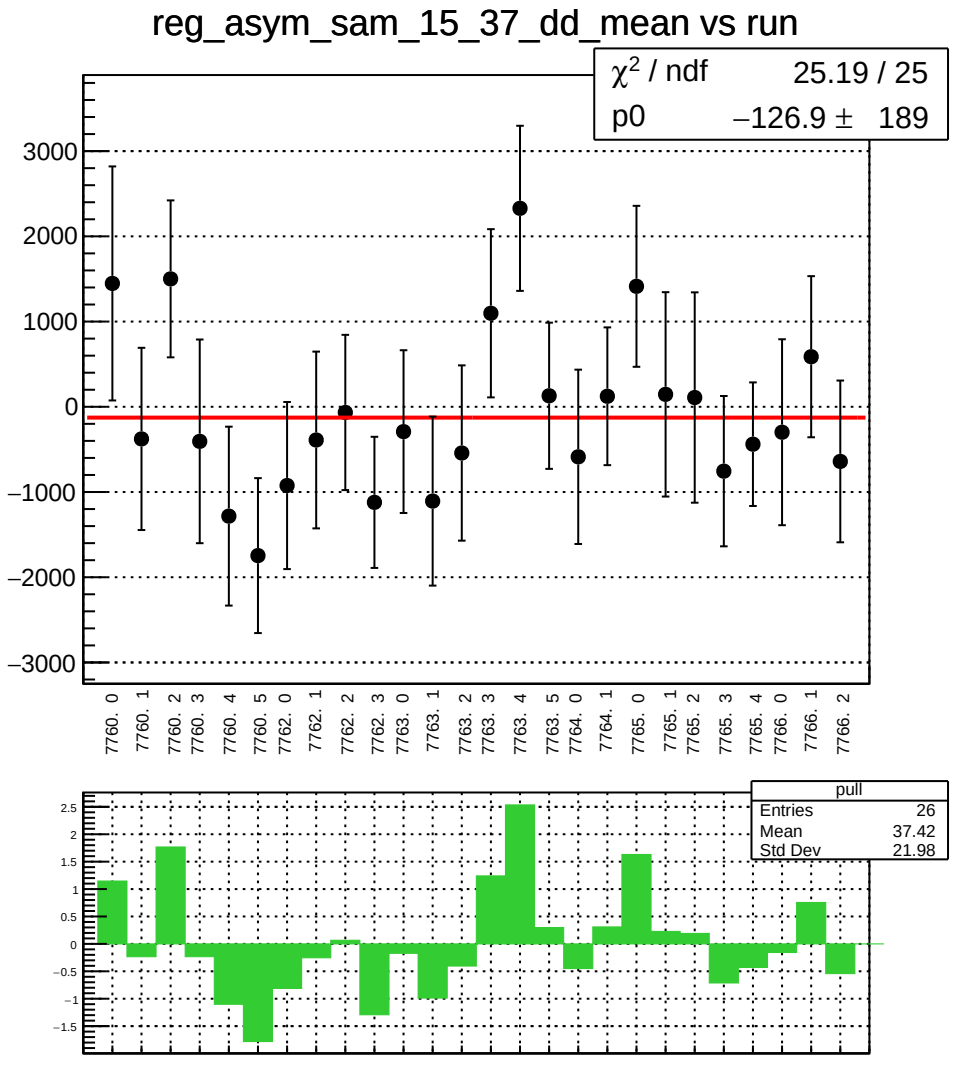

reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 2376 / 25
p0 87.03 ± 0.1213
105
100
95
90
85
80
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

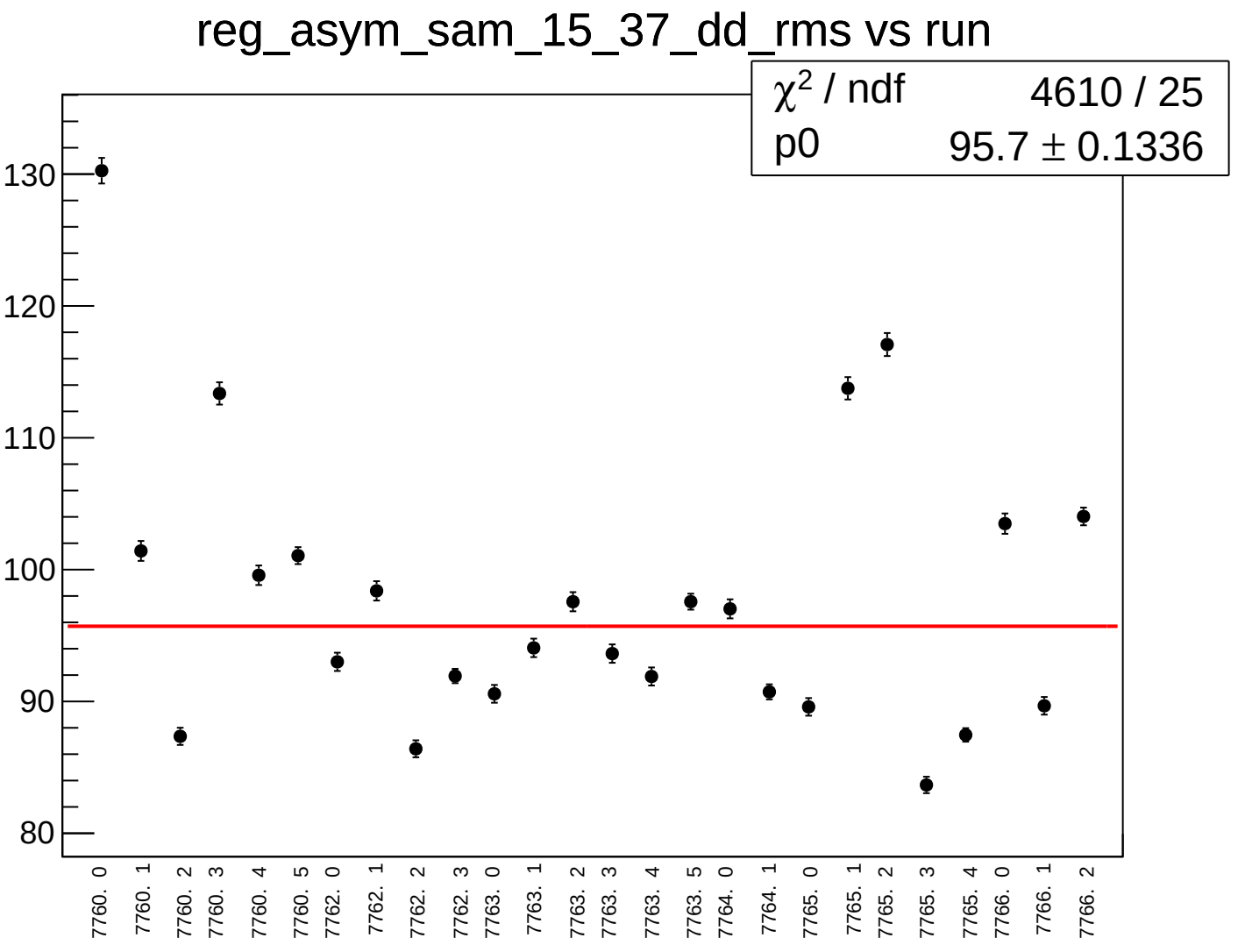

asym_sam_13_57_dd_correction_mean vs run
χ² / ndf 34.83 / 25
p0 −2915 ± 1477
30000
20000
10000
0
−10000
−20000
−30000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −251.2
Std Dev 255.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 26
Mean 0.00697
Std Dev 1.157
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

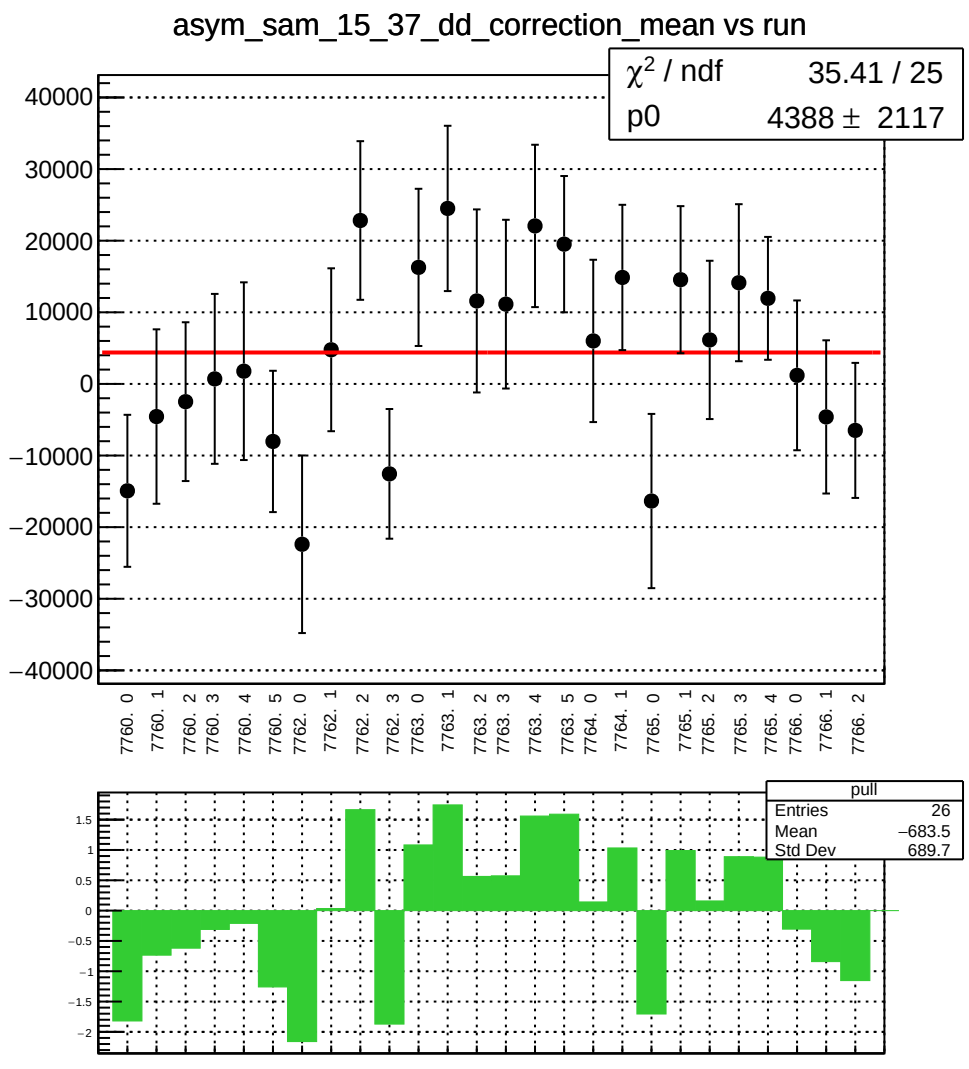

asym_sam_13_57_dd_correction_rms vs run
χ² / ndf 1744 / 25
p0 750.1 ± 1.044
850
800
750
700
650
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

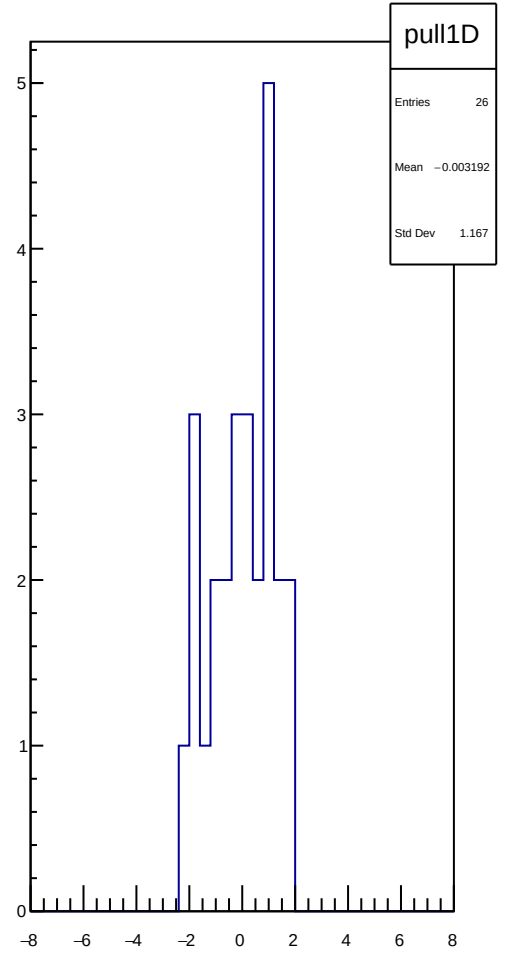

asym_sam_13_57_dd_mean vs run
χ² / ndf 33.69 / 25
p0 3029 ± 1487
30000
20000
10000
0
−10000
−20000
−30000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −150.8
Std Dev 154.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 26
Mean −0.01035
Std Dev 1.138
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

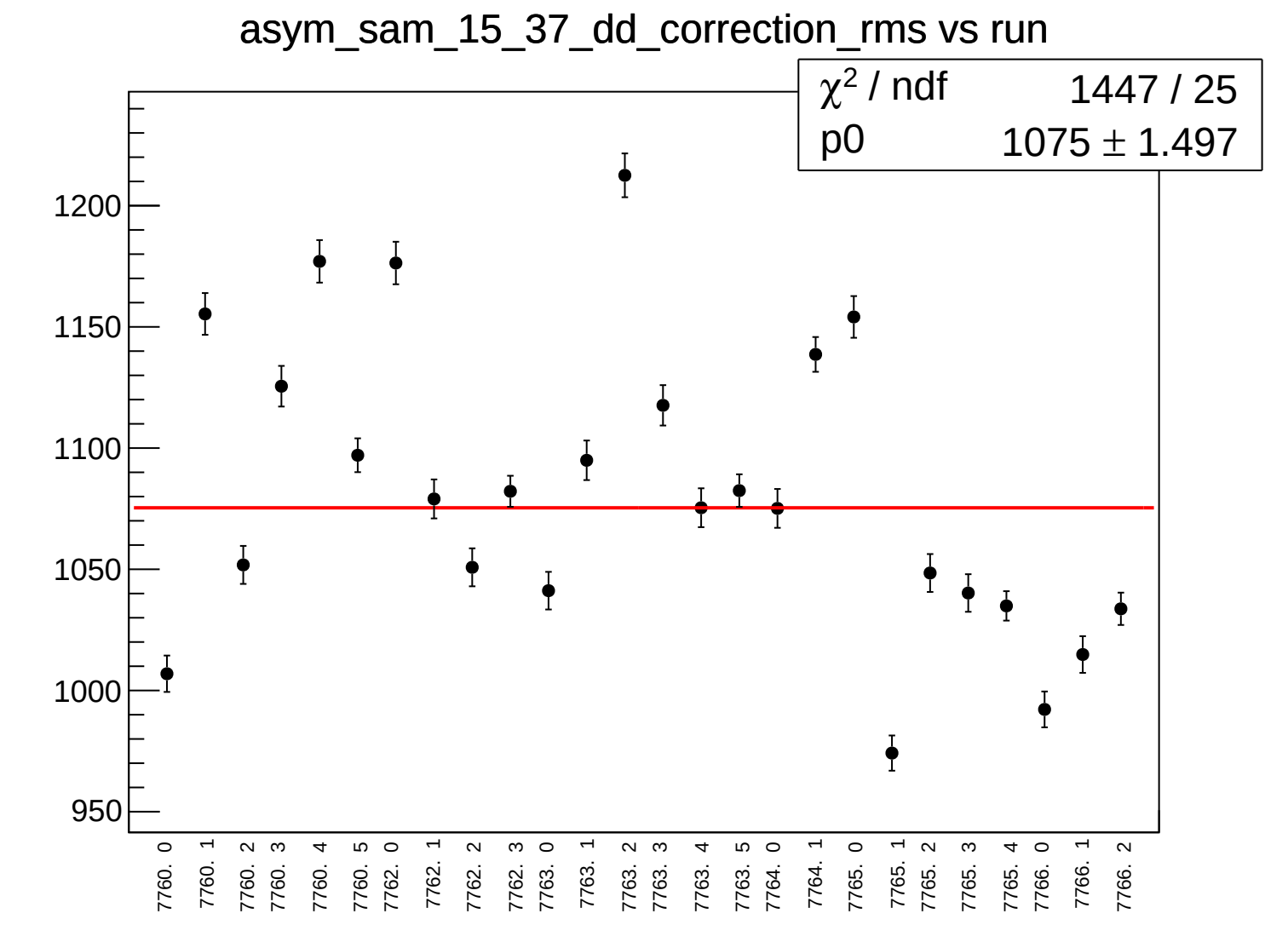

asym_sam_13_57_dd_rms vs run
χ² / ndf 1679 / 25
p0 755.4 ± 1.052
880
860
840
820
800
780
760
740
720
700
680
660
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

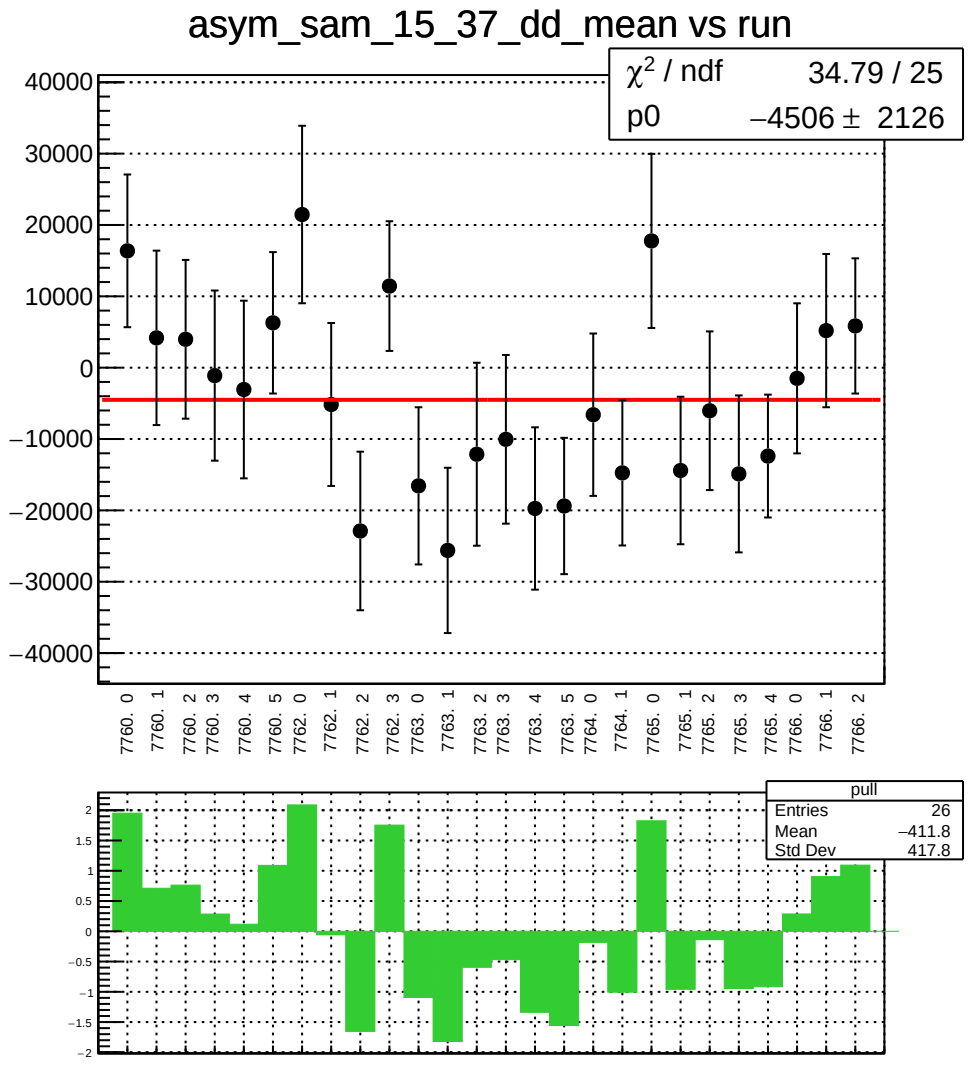

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 25.19 / 25
p0 −126.9 ± 189
3000
2000
1000
0
−1000
−2000
−3000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 37.42
Std Dev 21.98
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 26
Mean 0.02323
Std Dev 0.984
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

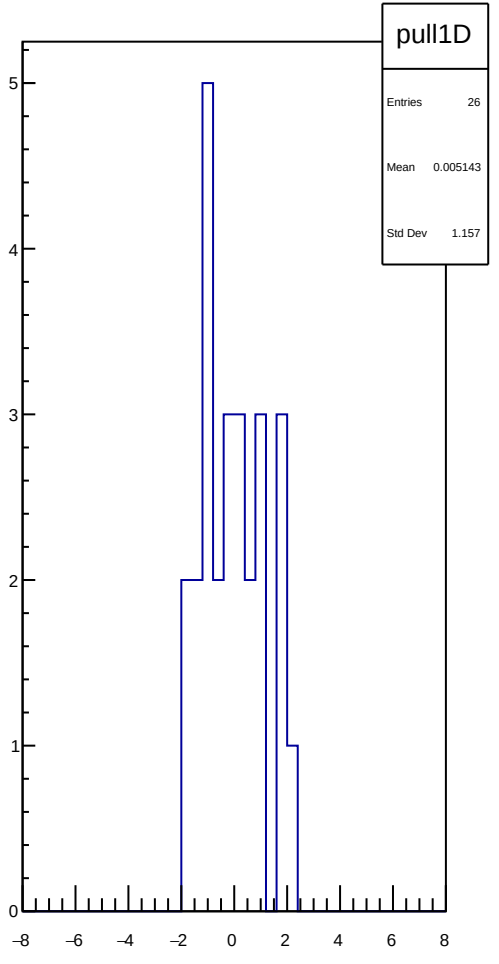

reg_asym_sam_15_37_dd_rms vs run
χ² / ndf 4610 / 25
p0 95.7 ± 0.1336
130
120
110
100
90
80
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

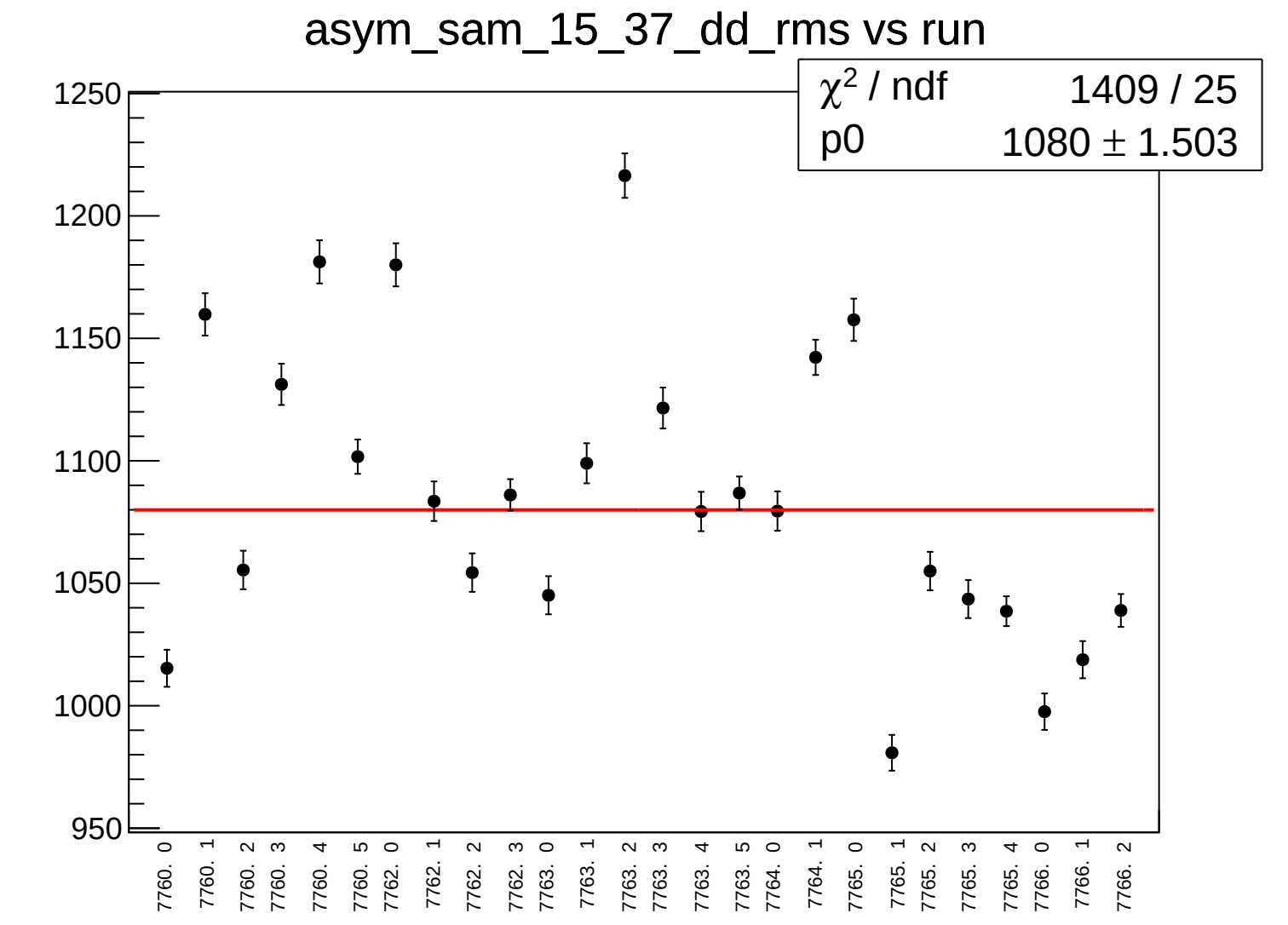

asym_sam_15_37_dd_correction_mean vs run
χ² / ndf 35.41 / 25
p0 4388 ± 2117
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −683.5
Std Dev 689.7
1.5
1
0.5
0
−0.5
−1
−1.5
−2

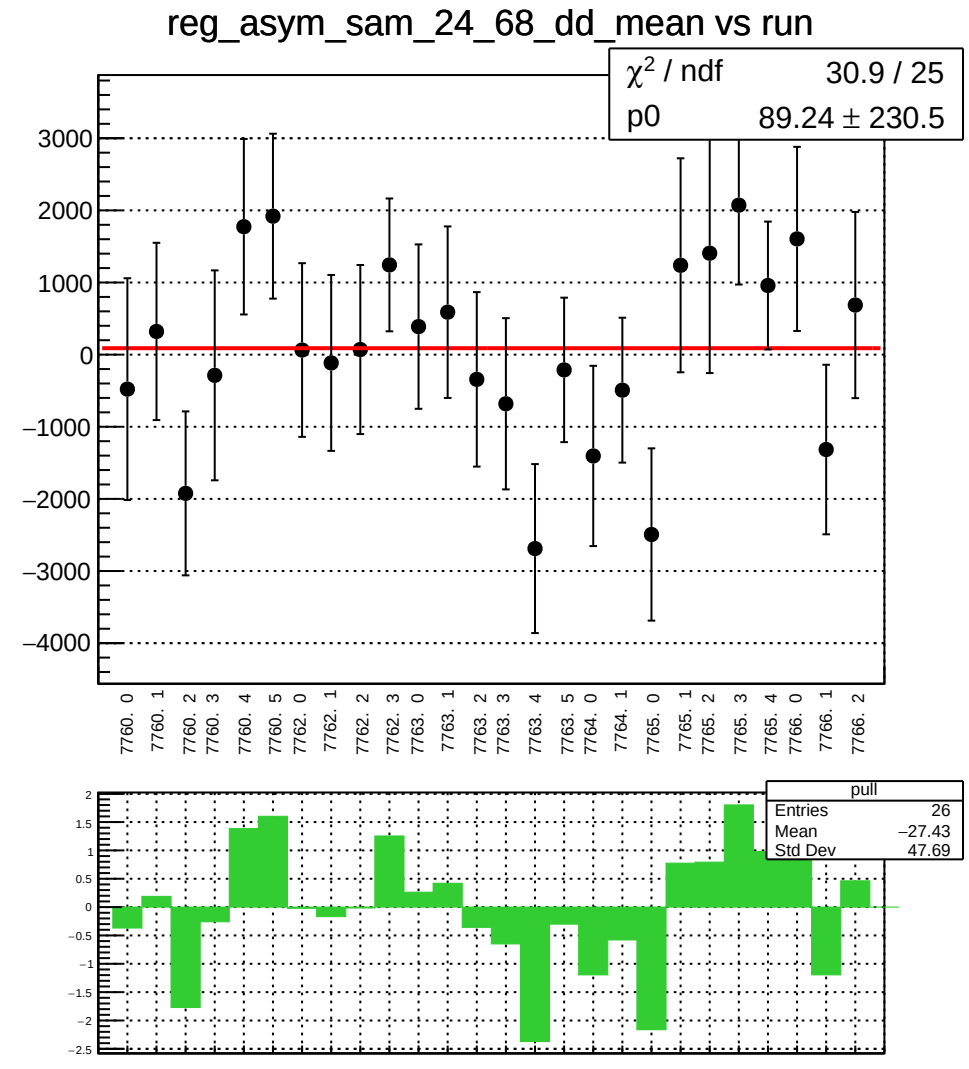

pull1D
Entries 26
Mean −0.003192
Std Dev 1.167
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

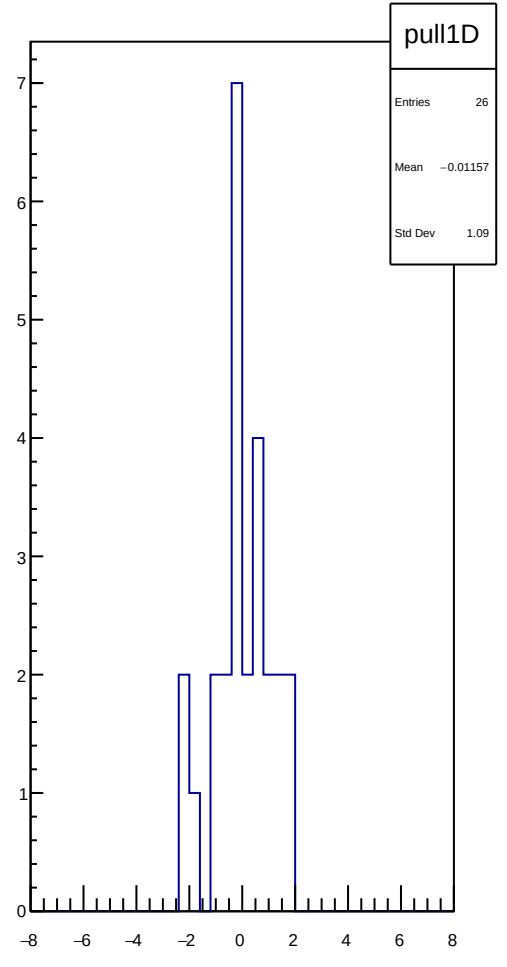

asym_sam_15_37_dd_correction_rms vs run
χ² / ndf 1447 / 25
p0 1075 ± 1.497
1200
1150
1100
1050
1000
950
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

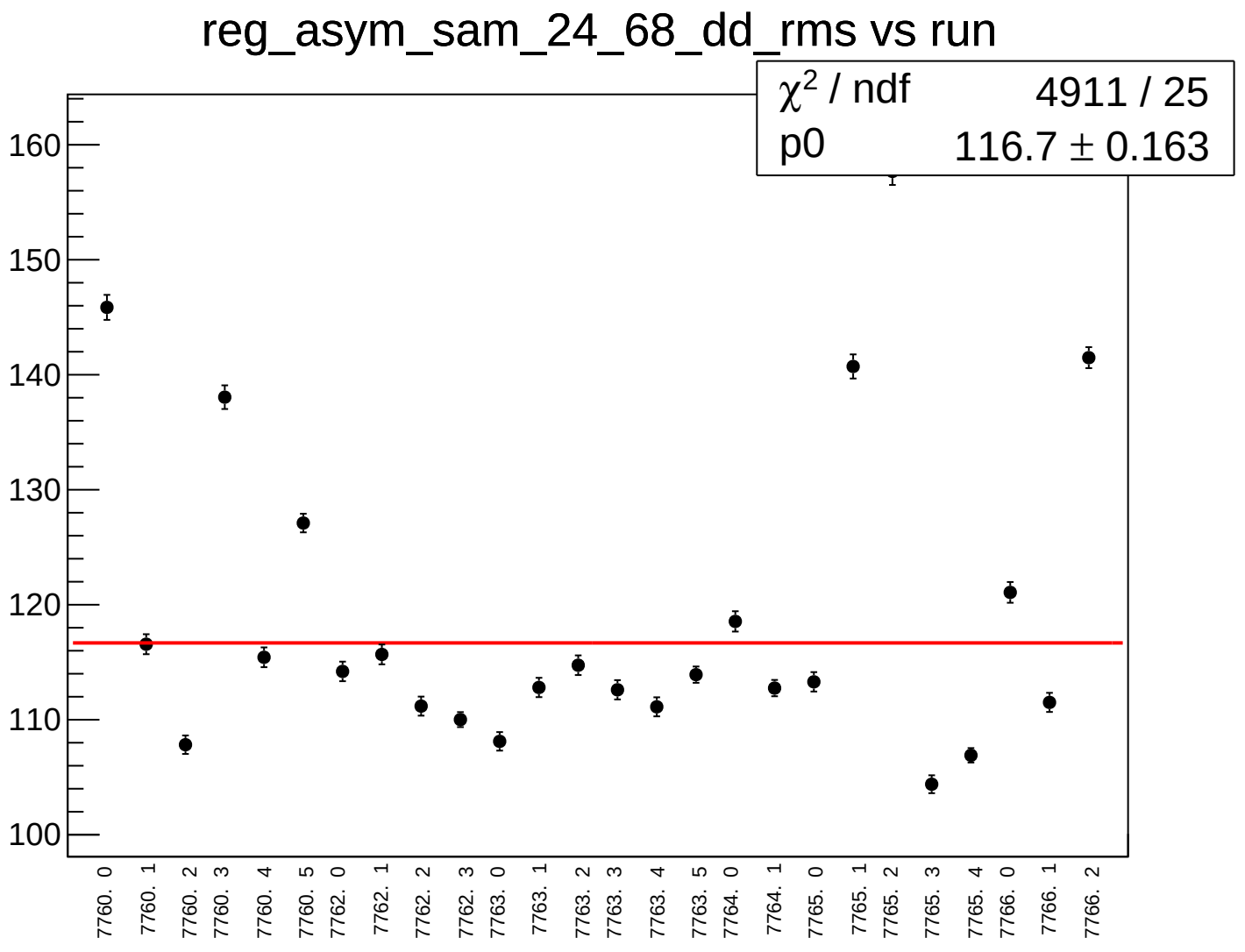

asym_sam_15_37_dd_mean vs run
χ² / ndf 34.79 / 25
p0 −4506 ± 2126
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −411.8
Std Dev 417.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

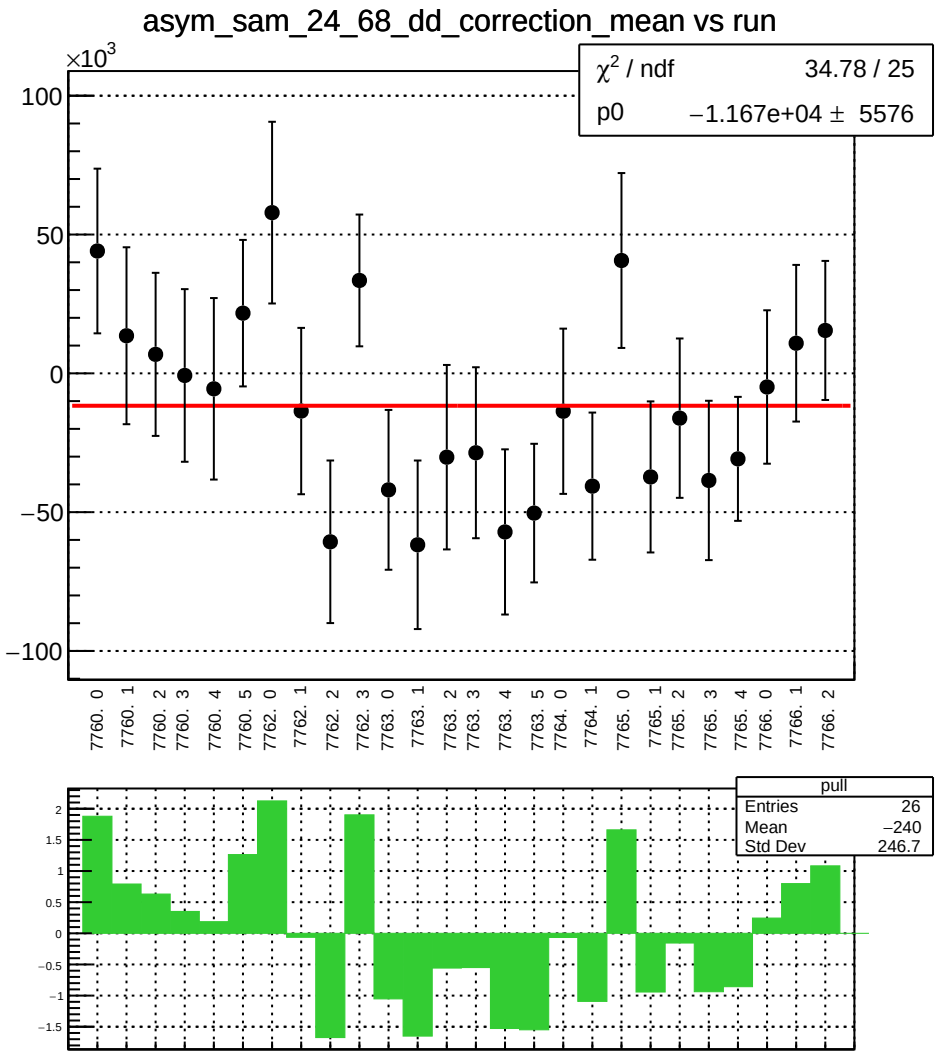

pull1D
Entries 26
Mean 0.005143
Std Dev 1.157
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

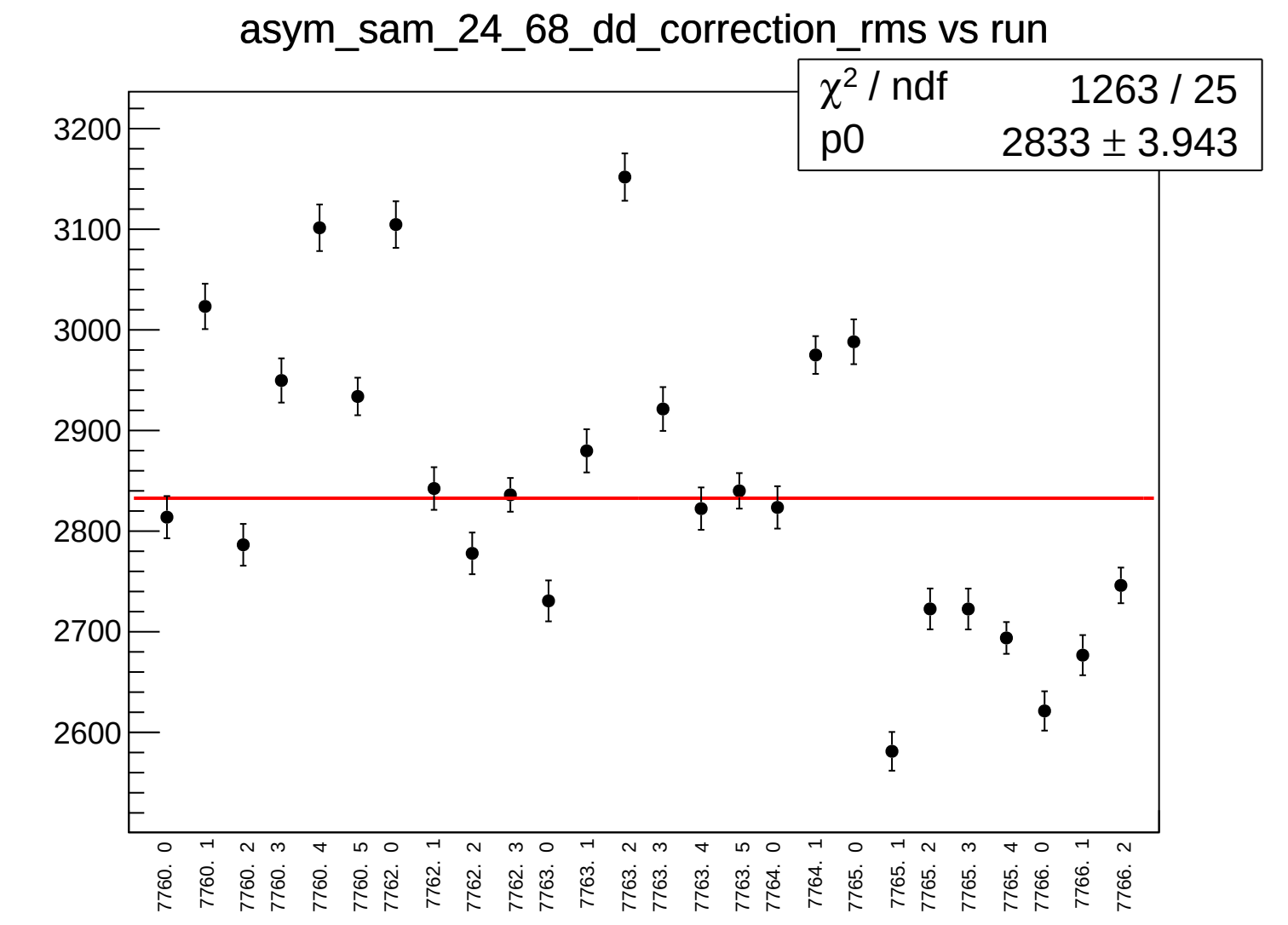

asym_sam_15_37_dd_rms vs run
χ² / ndf 1409 / 25
p0 1080 ± 1.503
1250
1200
1150
1100
1050
1000
950
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

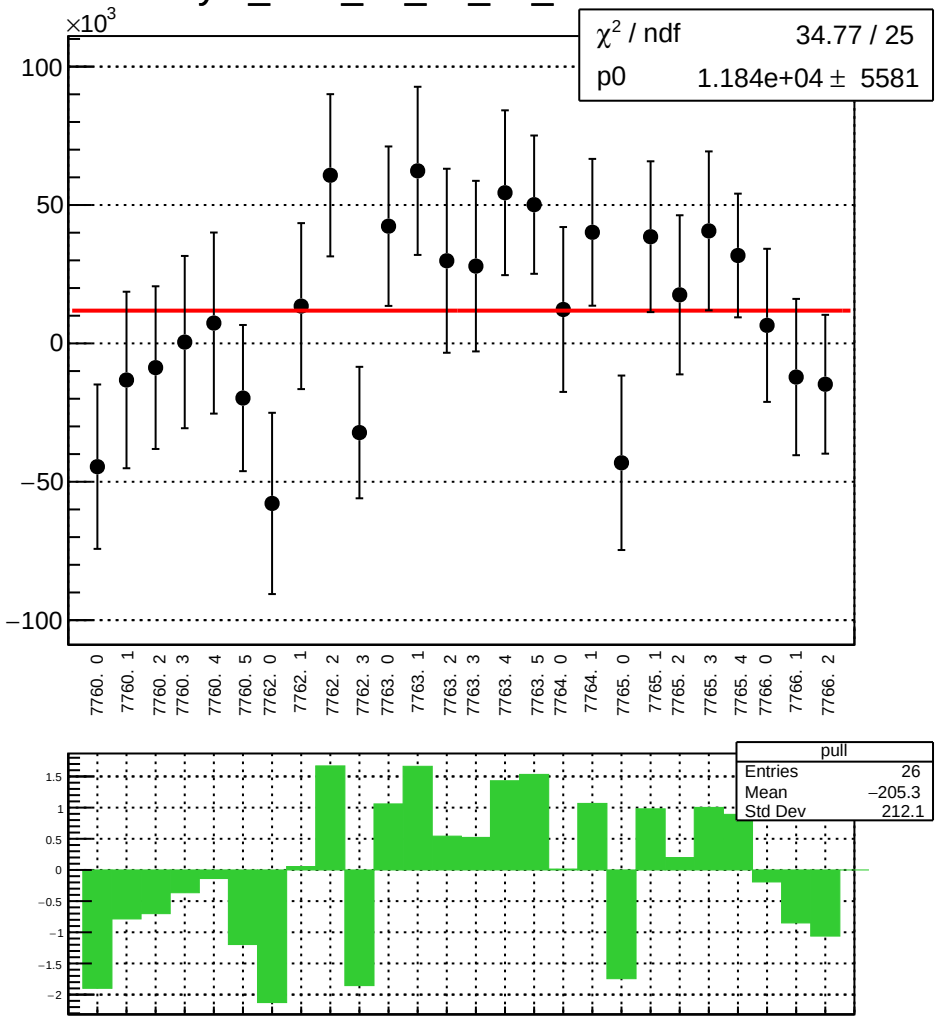

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 30.9 / 25
p0 89.24 ± 230.5
3000
2000
1000
0
−1000
−2000
−3000
−4000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −27.43
Std Dev 47.69
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

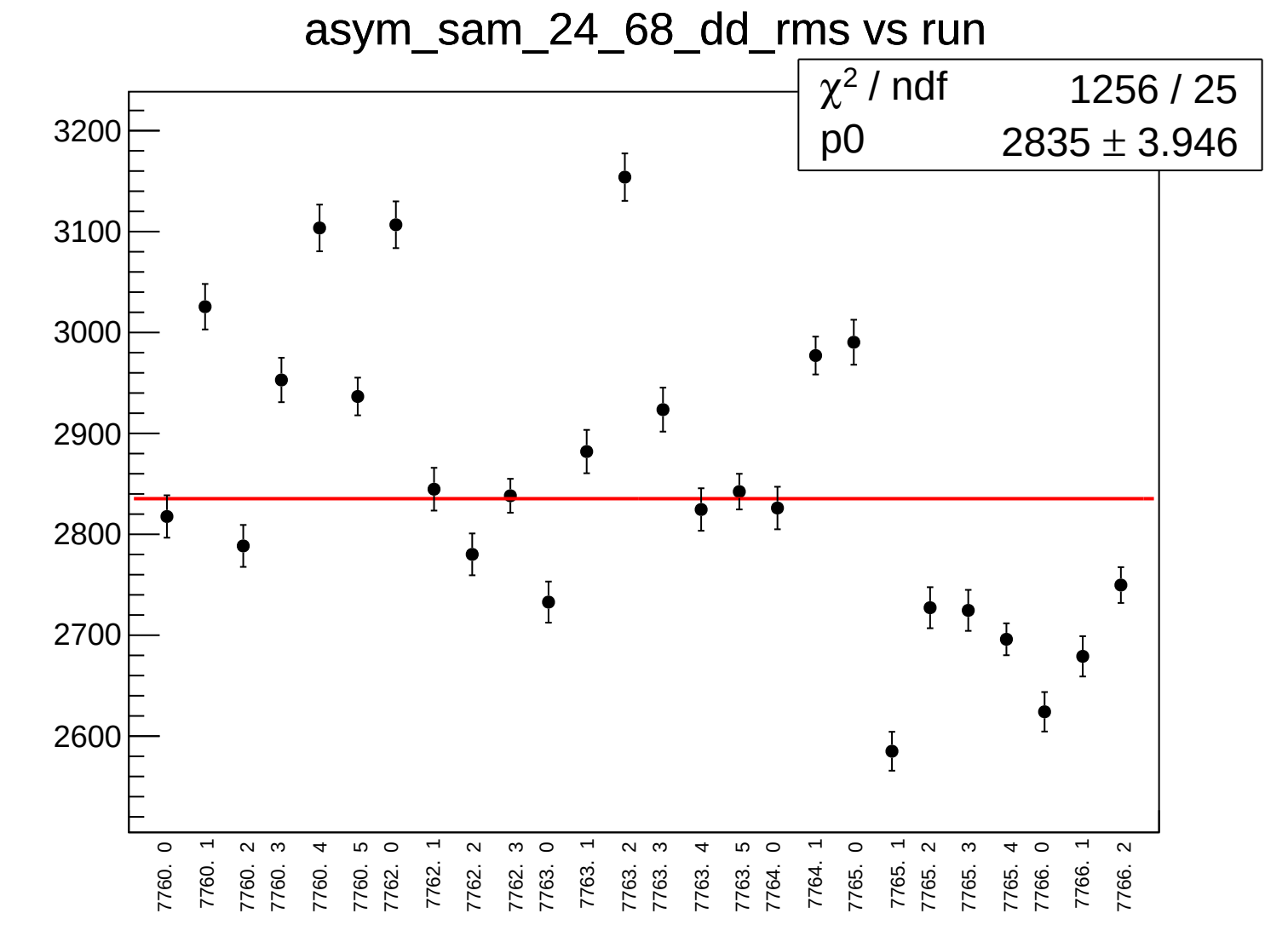

pull1D
Entries 26
Mean −0.01157
Std Dev 1.09
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

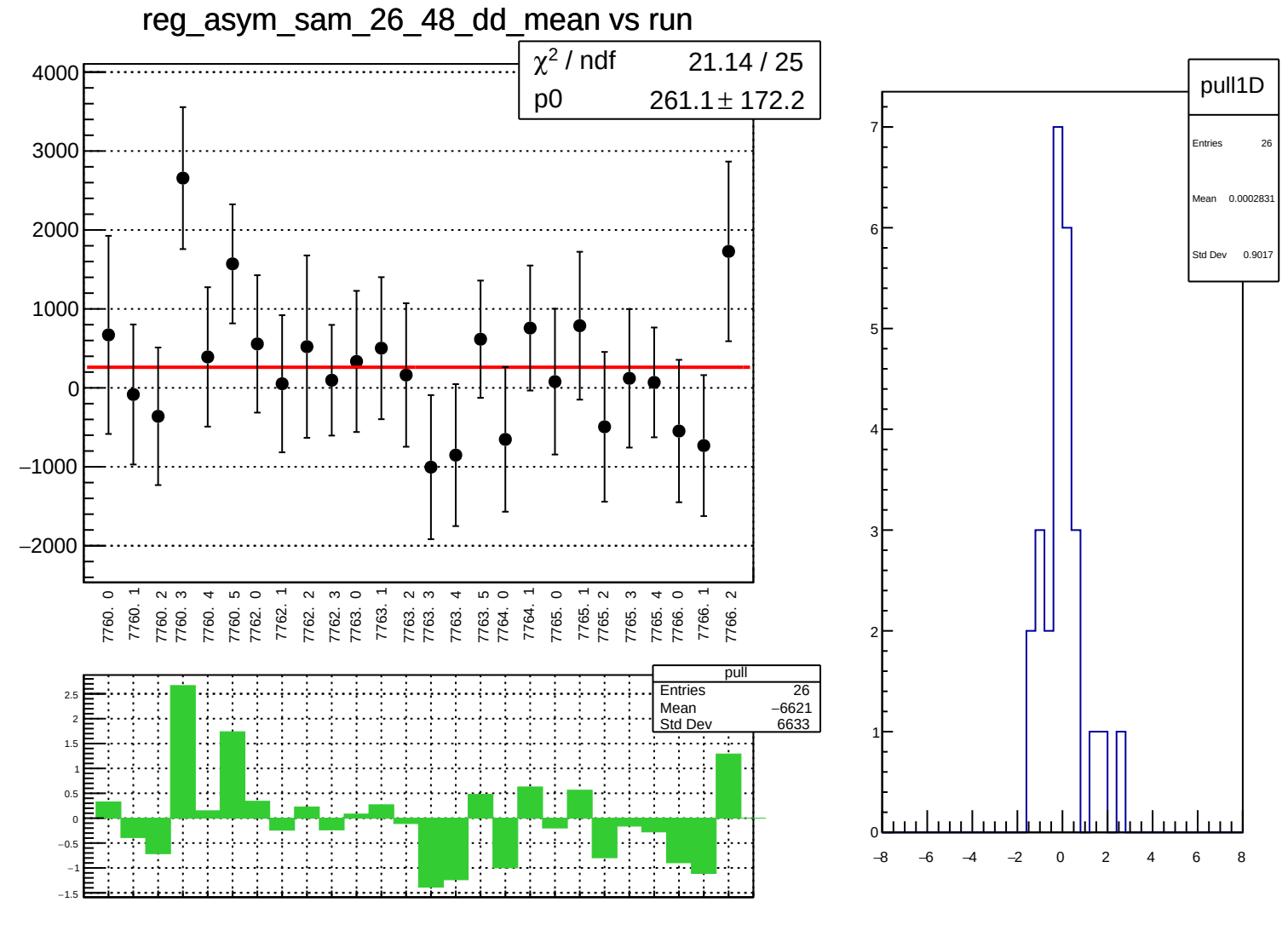

reg_asym_sam_24_68_dd_rms vs run
χ² / ndf 4911 / 25
p0 116.7 ± 0.163
160
150
140
130
120
110
100
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

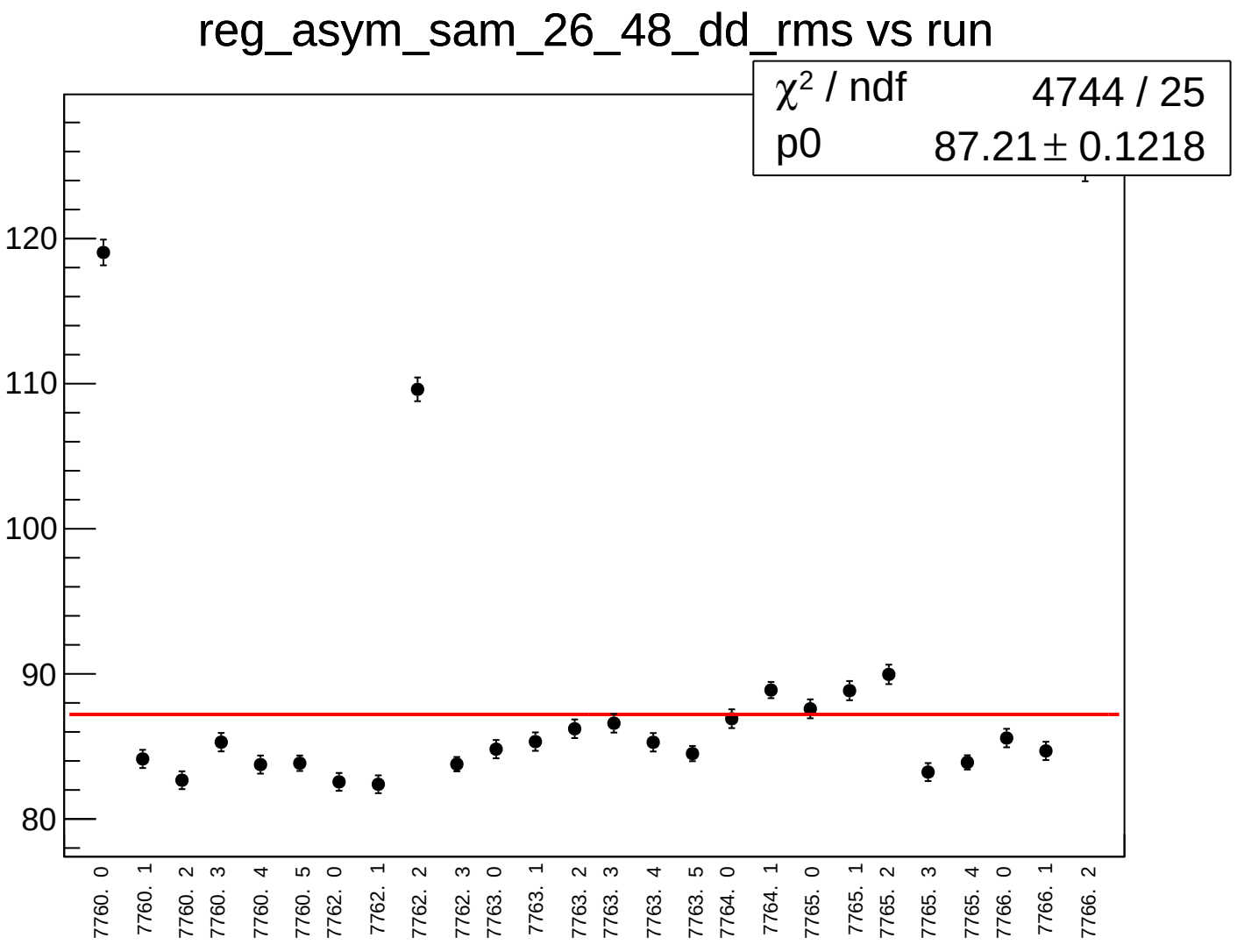

asym_sam_24_68_dd_correction_mean vs run
×10^3
χ² / ndf 34.78 / 25
p0 −1.167e+04 ± 5576
100
50
0
−50
−100
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −240
Std Dev 246.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 26
Mean 0.009331
Std Dev 1.157
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

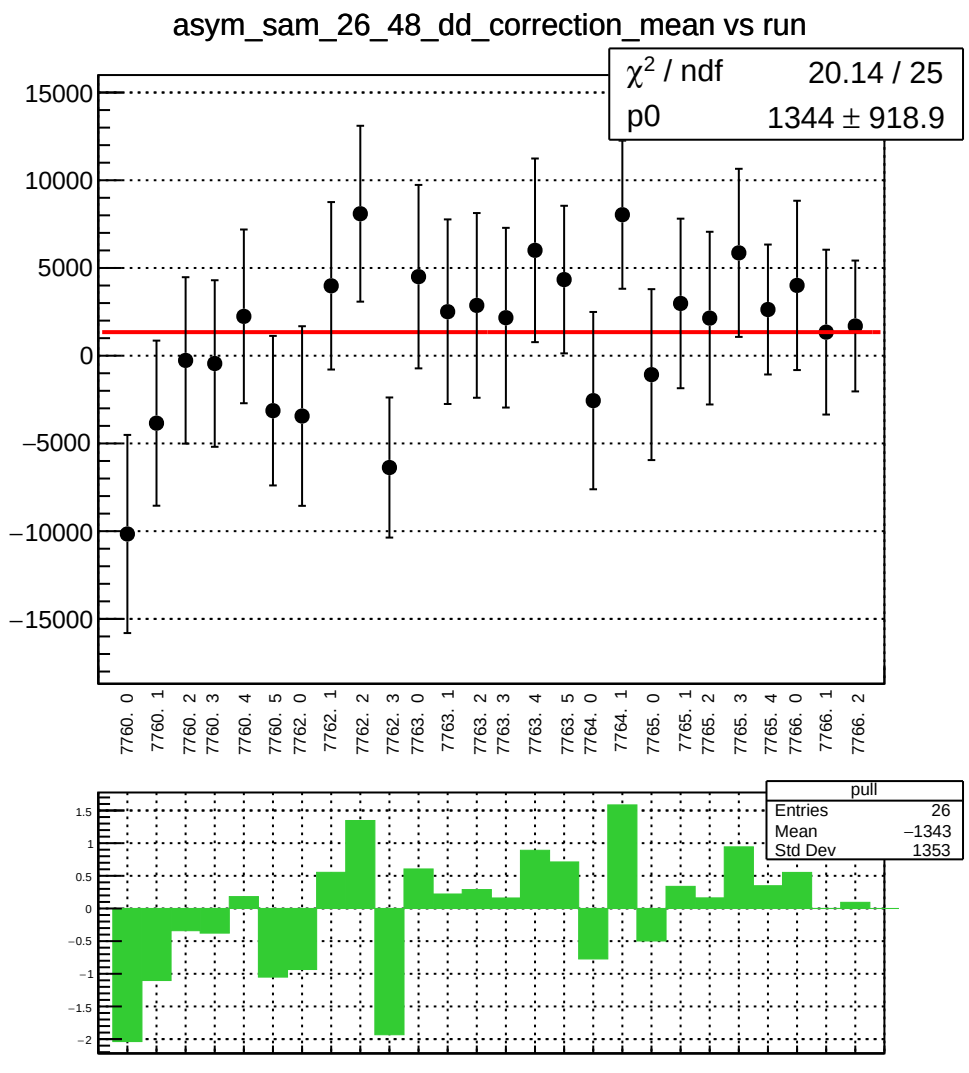

asym_sam_24_68_dd_correction_rms vs run
χ² / ndf 1263 / 25
p0 2833 ± 3.943
3200
3100
3000
2900
2800
2700
2600
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

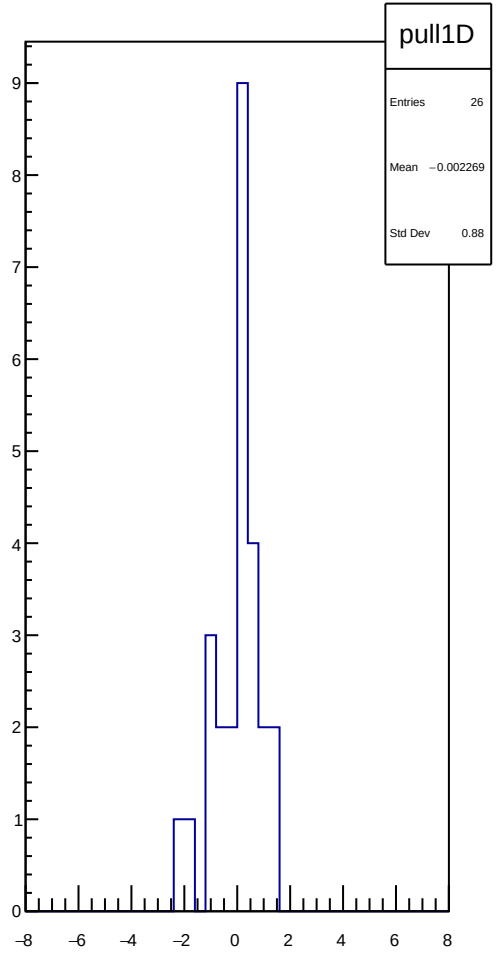

asym_sam_24_68_dd_mean vs run
×10^3
χ² / ndf 34.77 / 25
p0 1.184e+04 ± 5581
100
50
0
−50
−100
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −205.3
Std Dev 212.1
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 26
Mean −0.01095
Std Dev 1.156
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

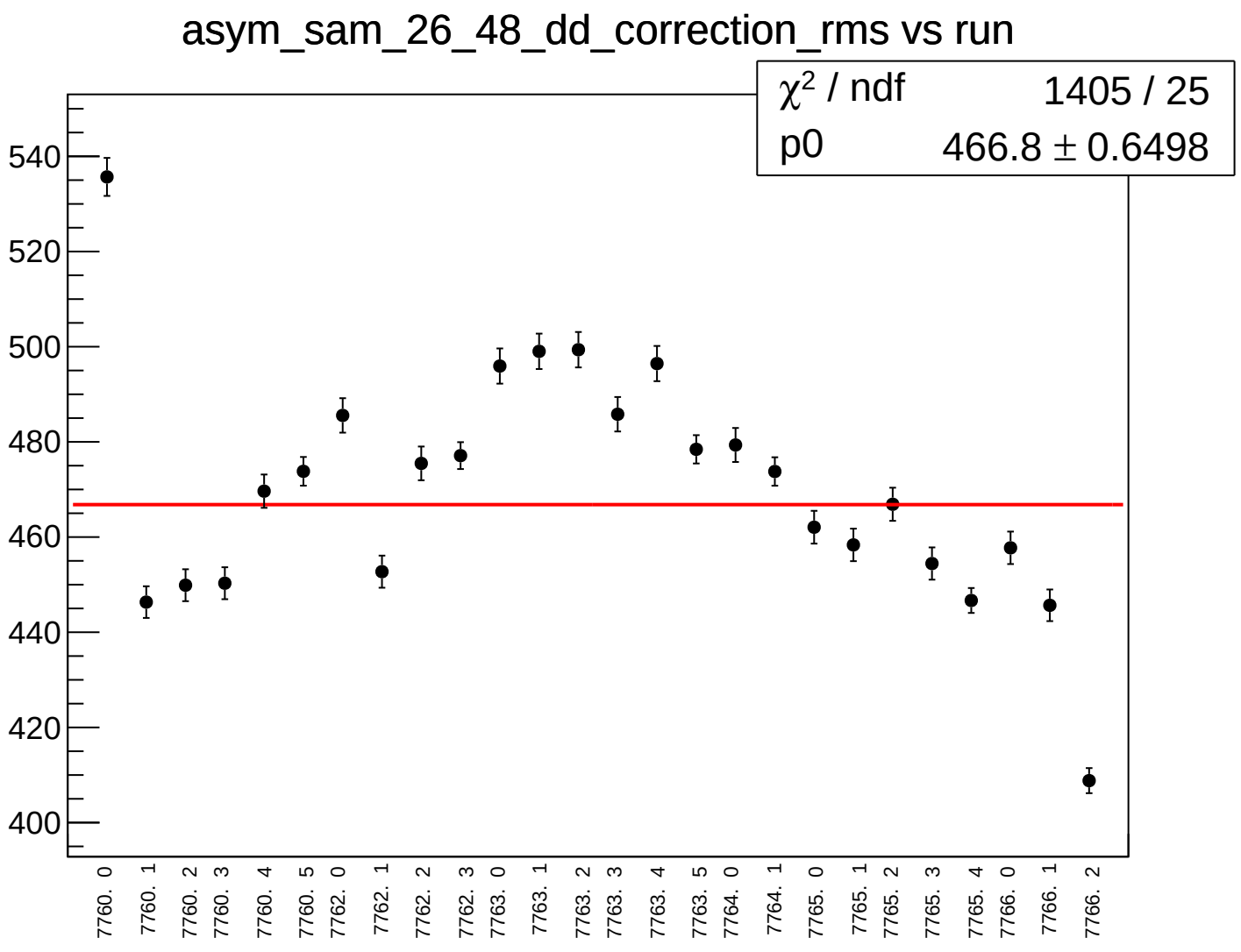

asym_sam_24_68_dd_rms vs run
χ² / ndf 1256 / 25
p0 2835 ± 3.946
3200
3100
3000
2900
2800
2700
2600
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

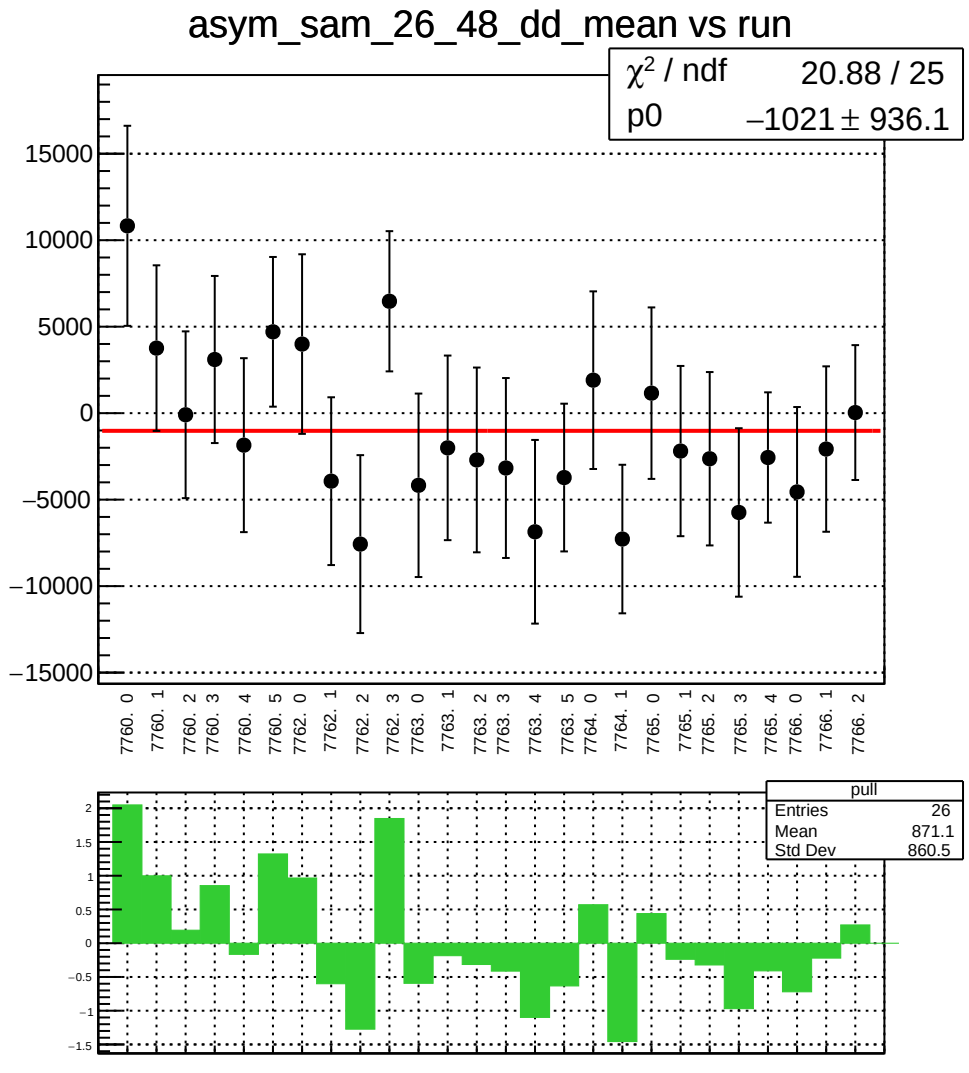

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 21.14 / 25
p0 261.1 ± 172.2
4000
3000
2000
1000
0
−1000
−2000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −6621
Std Dev 6633
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 26
Mean 0.0002831
Std Dev 0.9017
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

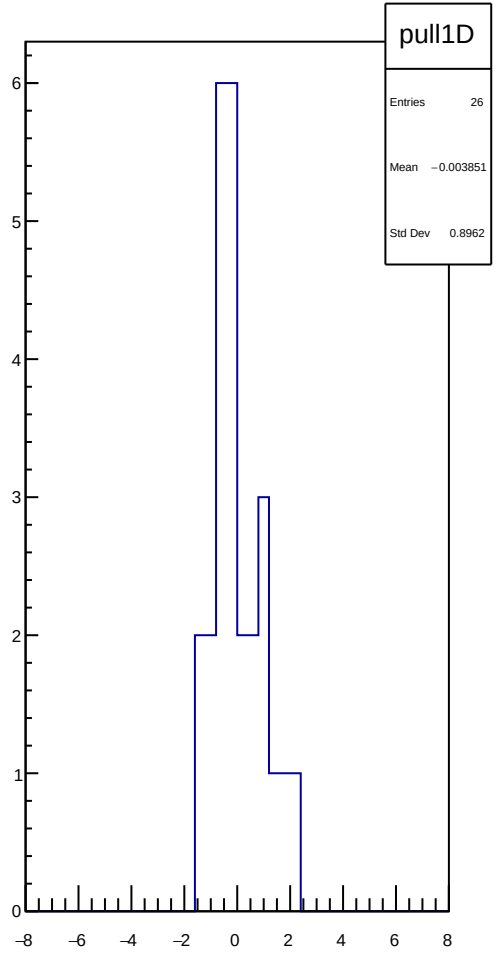

reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 4744 / 25
p0 87.21 ± 0.1218
120
110
100
90
80
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

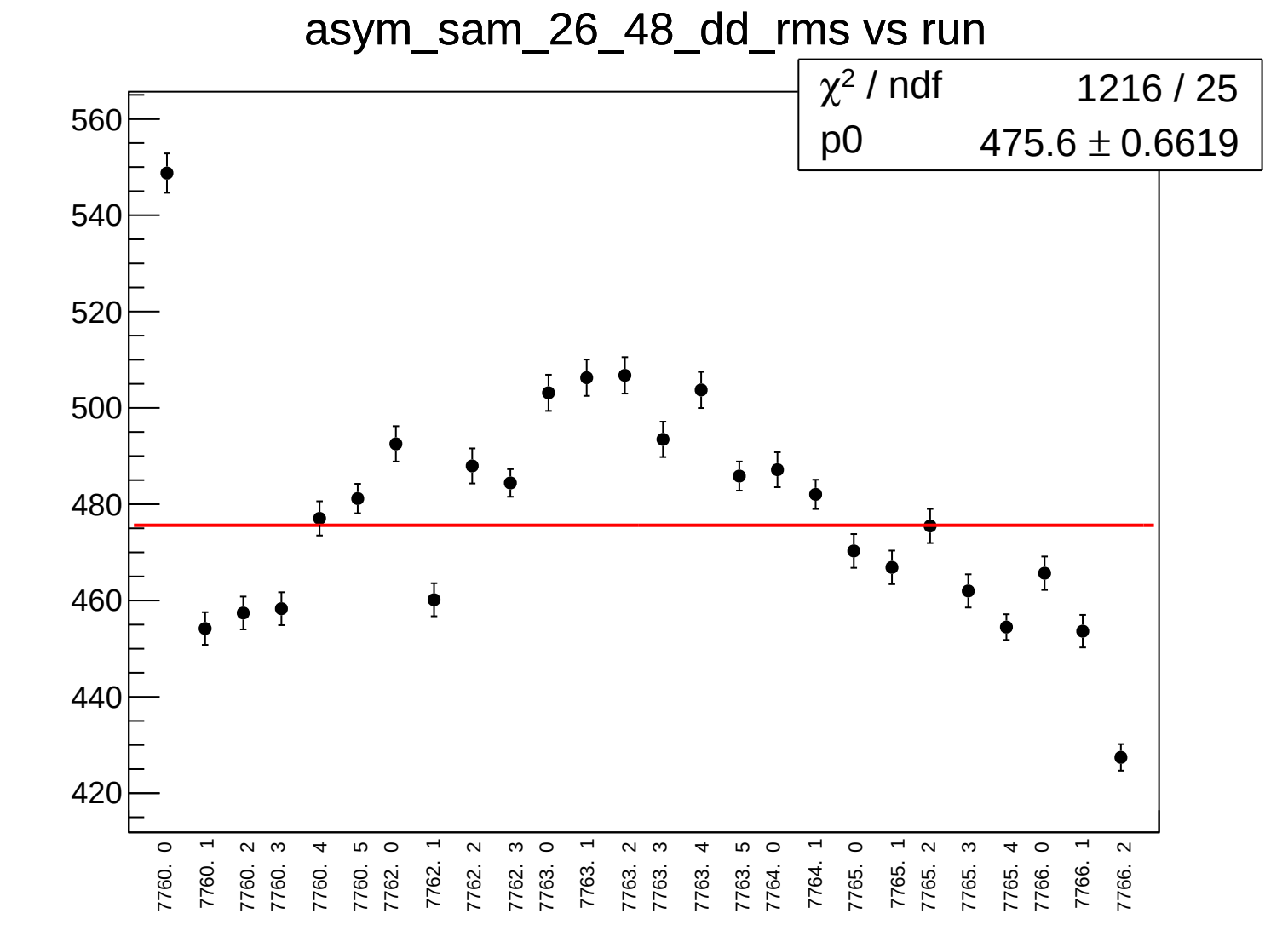

asym_sam_26_48_dd_correction_mean vs run
χ² / ndf 20.14 / 25
p0 1344 ± 918.9
15000
10000
5000
0
−5000
−10000
−15000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −1343
Std Dev 1353
1.5
1
0.5
0
−0.5
−1
−1.5
−2

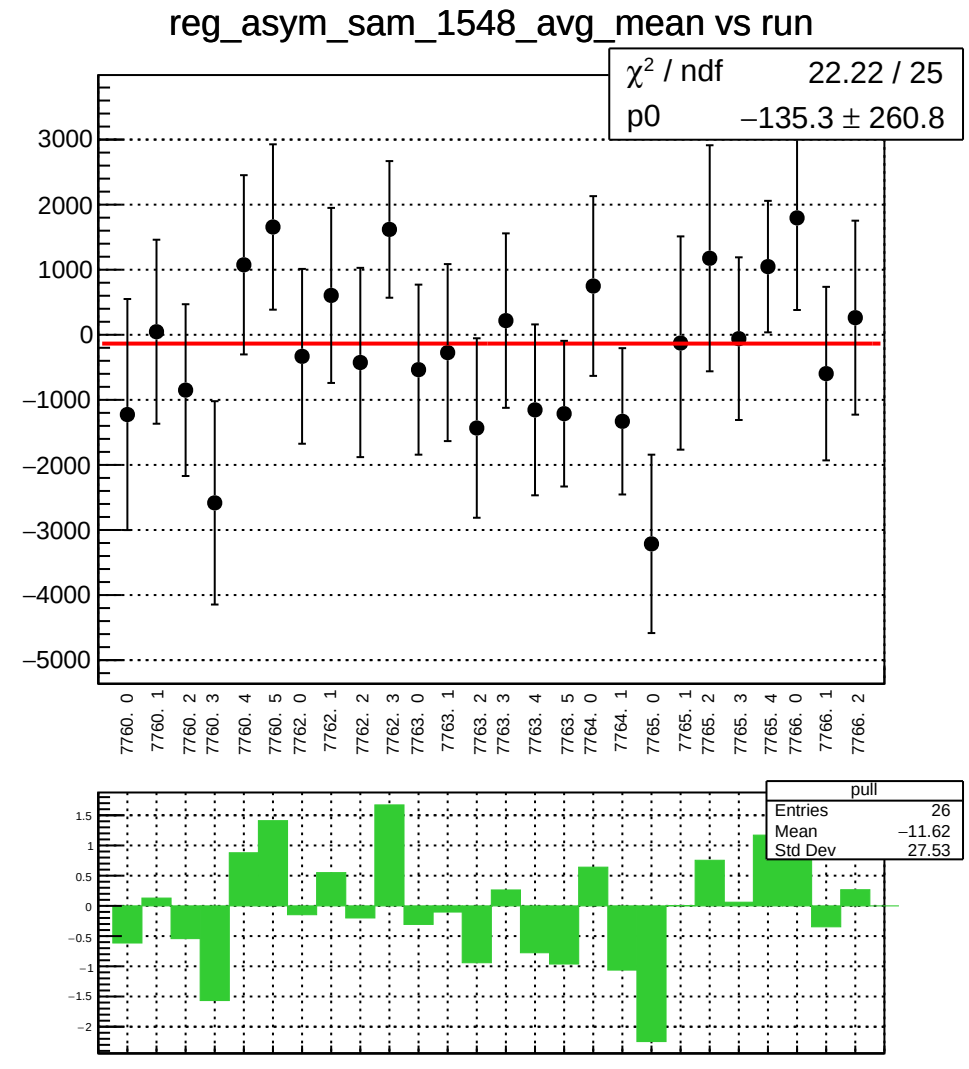

pull1D
Entries 26
Mean −0.002269
Std Dev 0.88
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

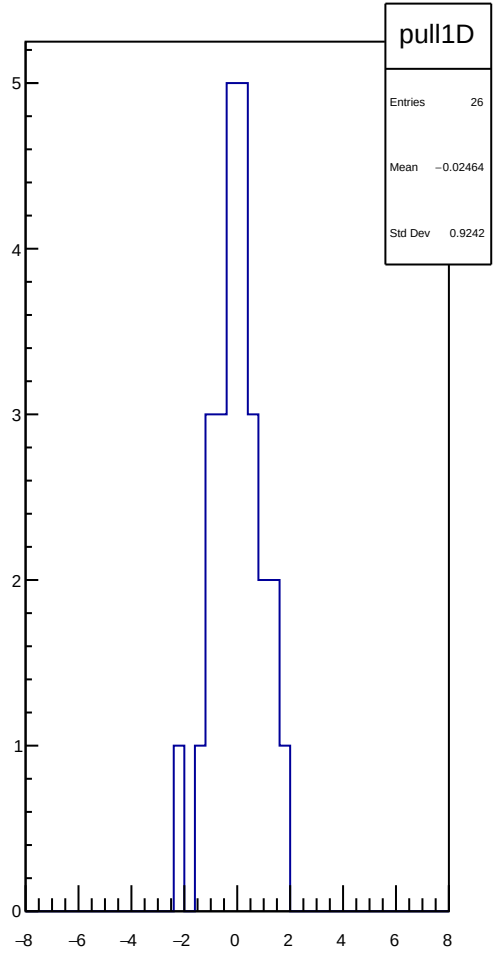

asym_sam_26_48_dd_correction_rms vs run
χ² / ndf 1405 / 25
p0 466.8 ± 0.6498
540
520
500
480
460
440
420
400
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

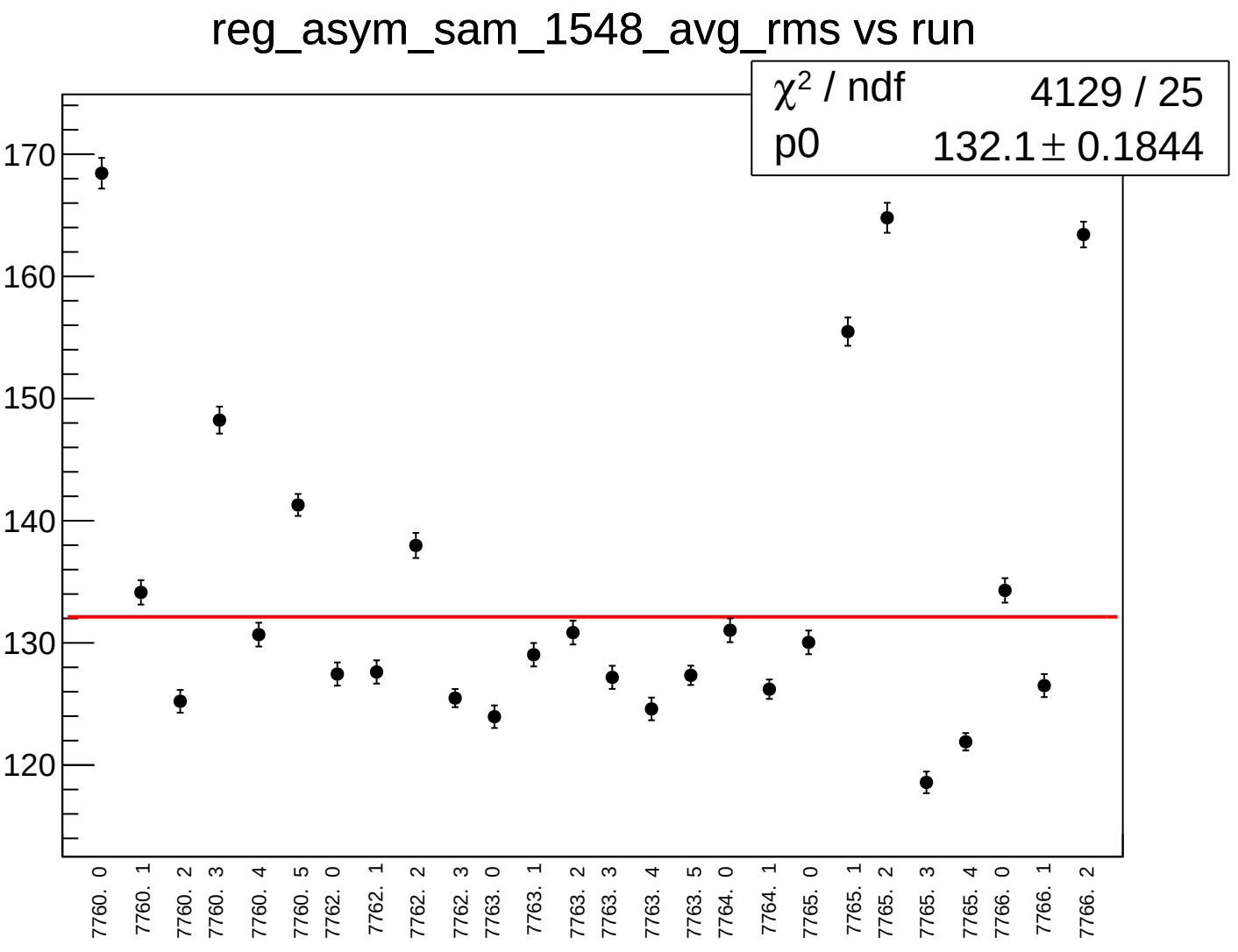

asym_sam_26_48_dd_mean vs run
χ² / ndf 20.88 / 25
p0 −1021 ± 936.1
15000
10000
5000
0
−5000
−10000
−15000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 871.1
Std Dev 860.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

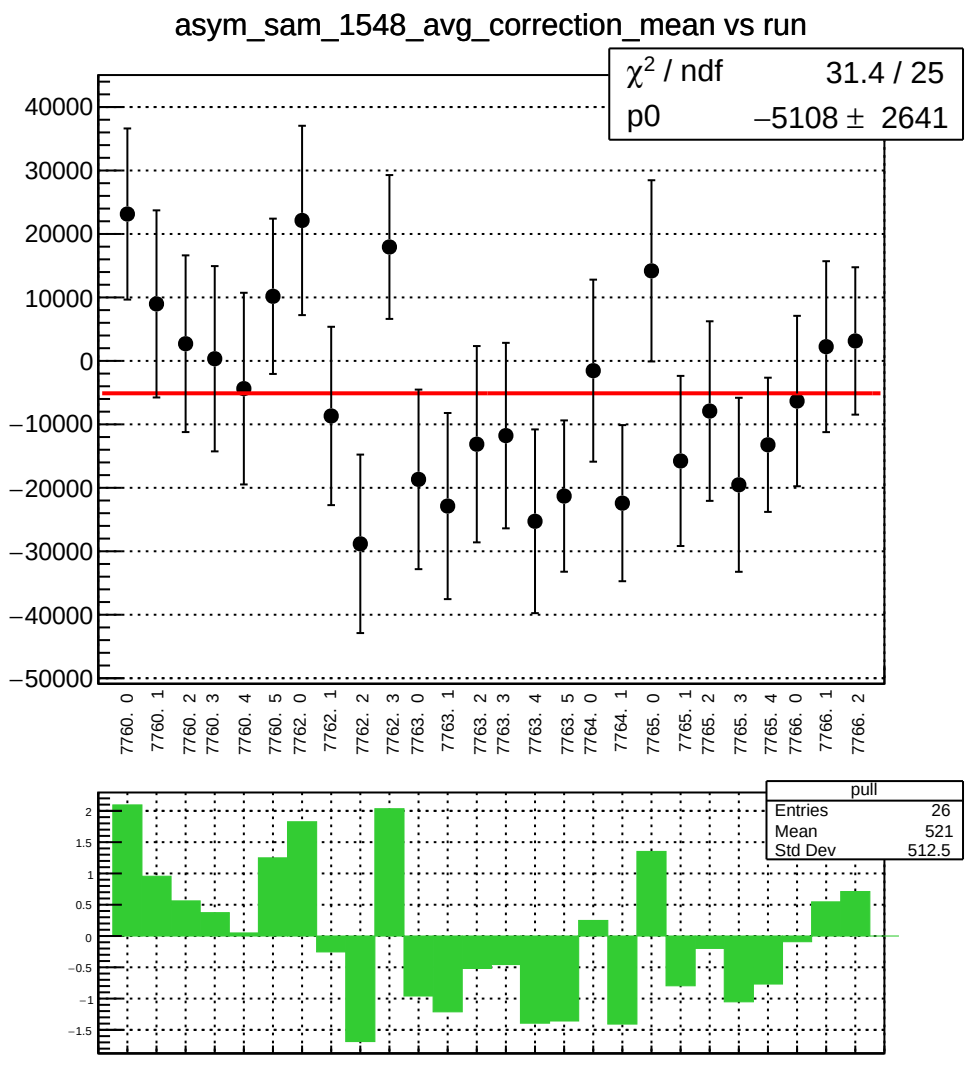

pull1D
Entries 26
Mean −0.003851
Std Dev 0.8962
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

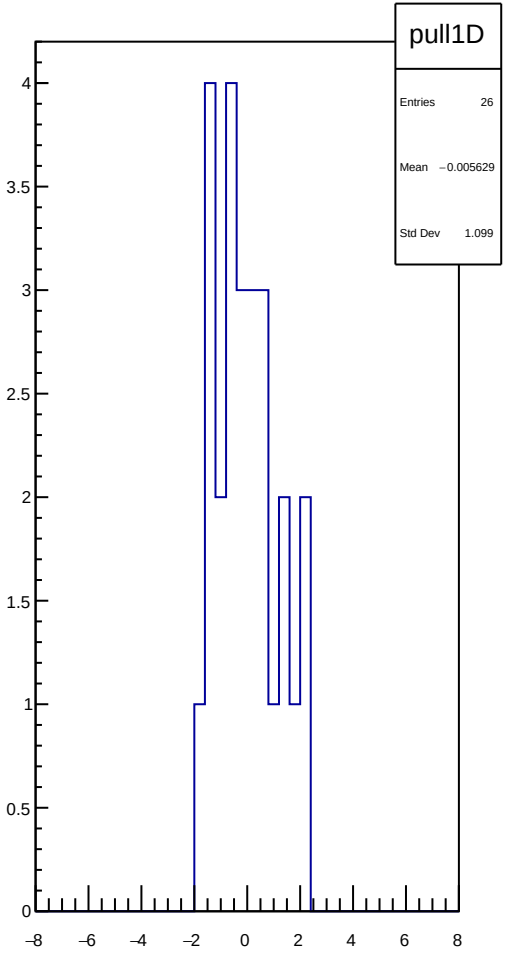

asym_sam_26_48_dd_rms vs run
χ² / ndf 1216 / 25
p0 475.6 ± 0.6619
560
540
520
500
480
460
440
420
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

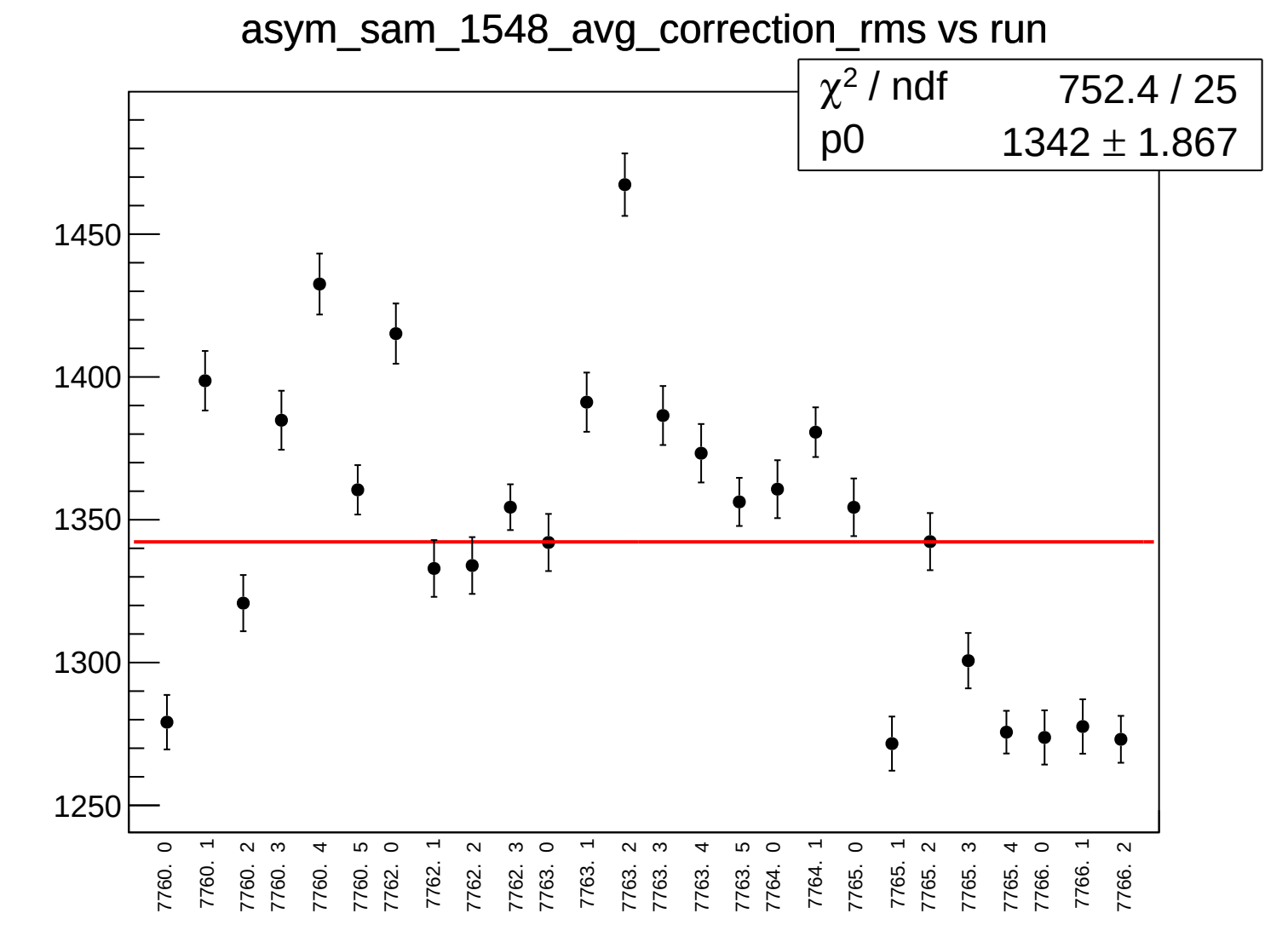

reg_asym_sam_1548_avg_mean vs run
χ² / ndf 22.22 / 25
p0 −135.3 ± 260.8
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −11.62
Std Dev 27.53
1.5
1
0.5
0
−0.5
−1
−1.5
−2

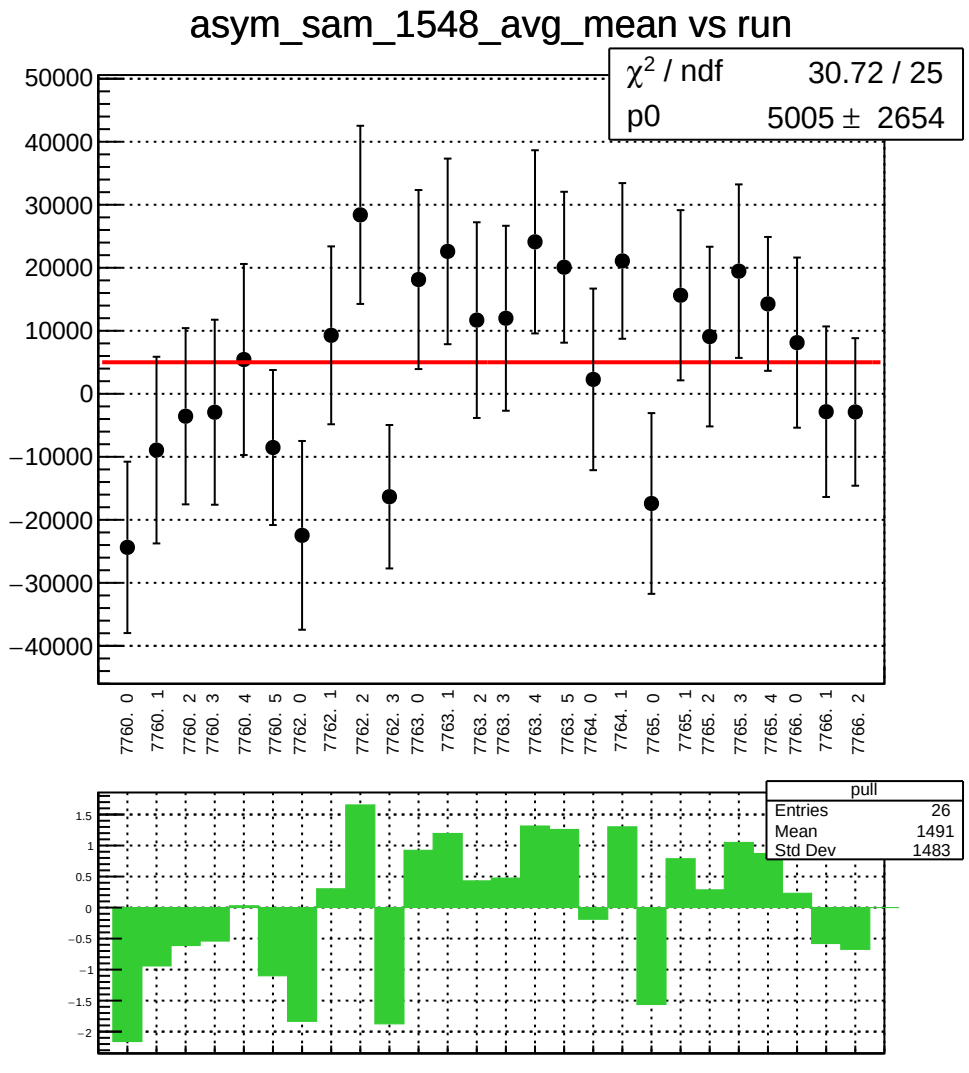

pull1D
Entries 26
Mean −0.02464
Std Dev 0.9242
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

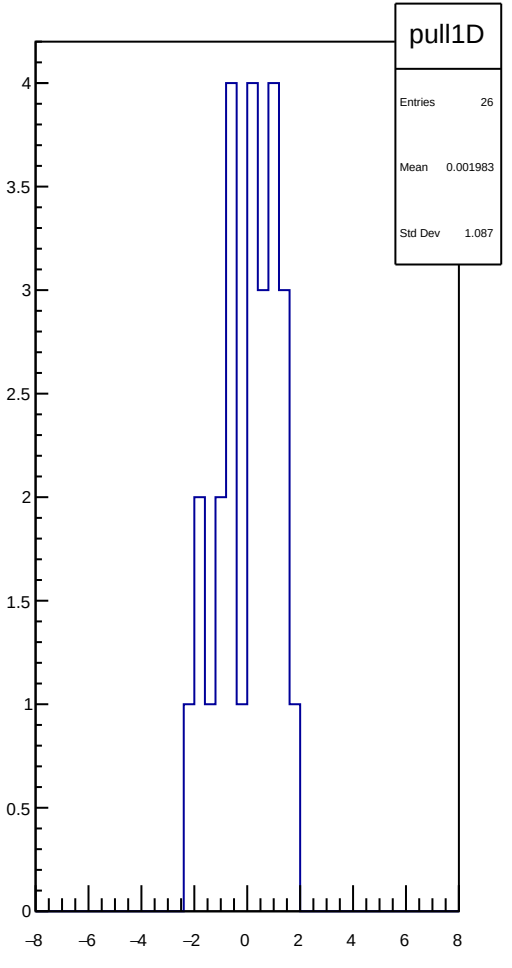

reg_asym_sam_1548_avg_rms vs run
χ² / ndf 4129 / 25
p0 132.1 ± 0.1844
170
160
150
140
130
120
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

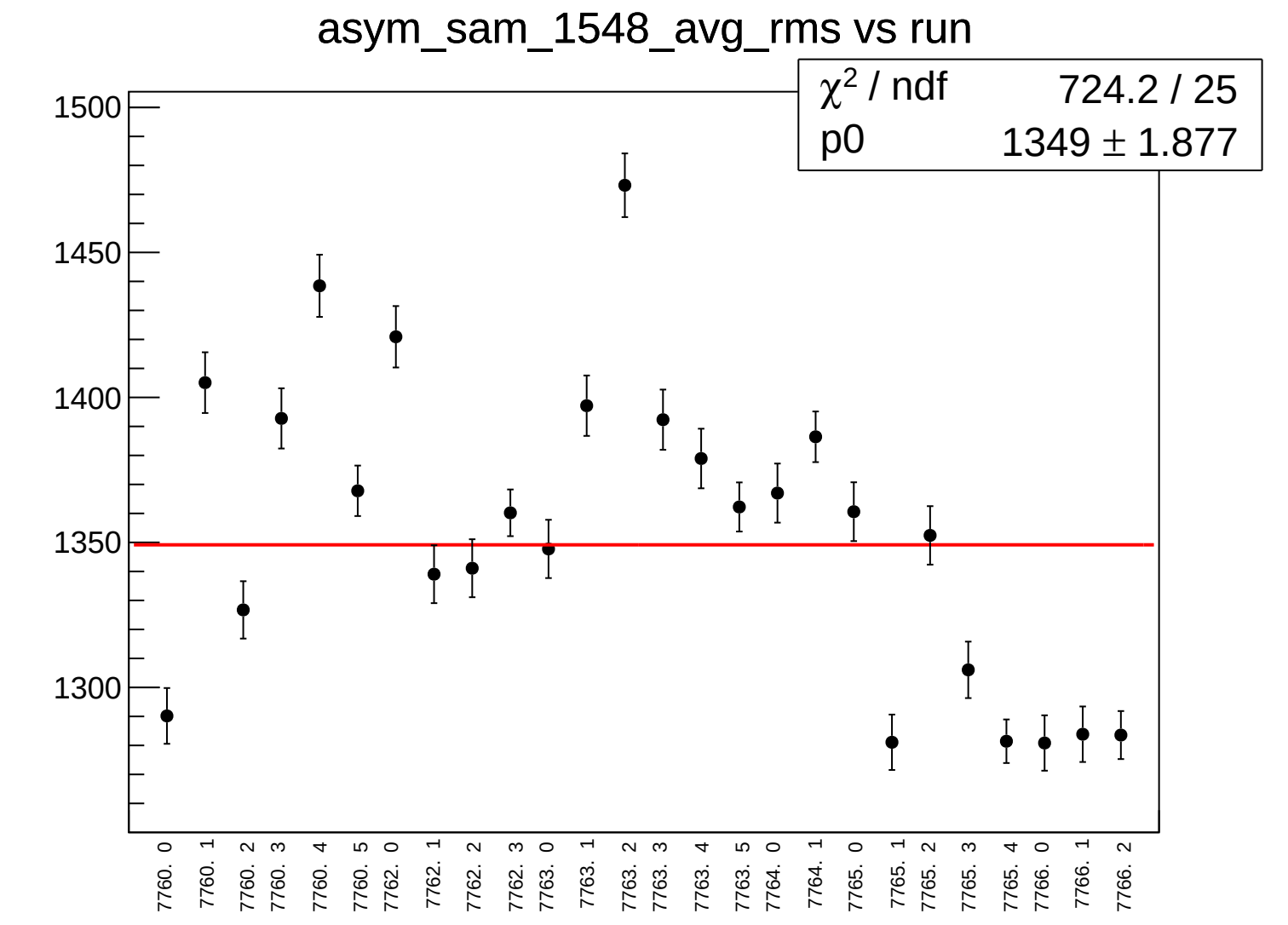

asym_sam_1548_avg_correction_mean vs run
χ² / ndf 31.4 / 25
p0 −5108 ± 2641
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 521
Std Dev 512.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

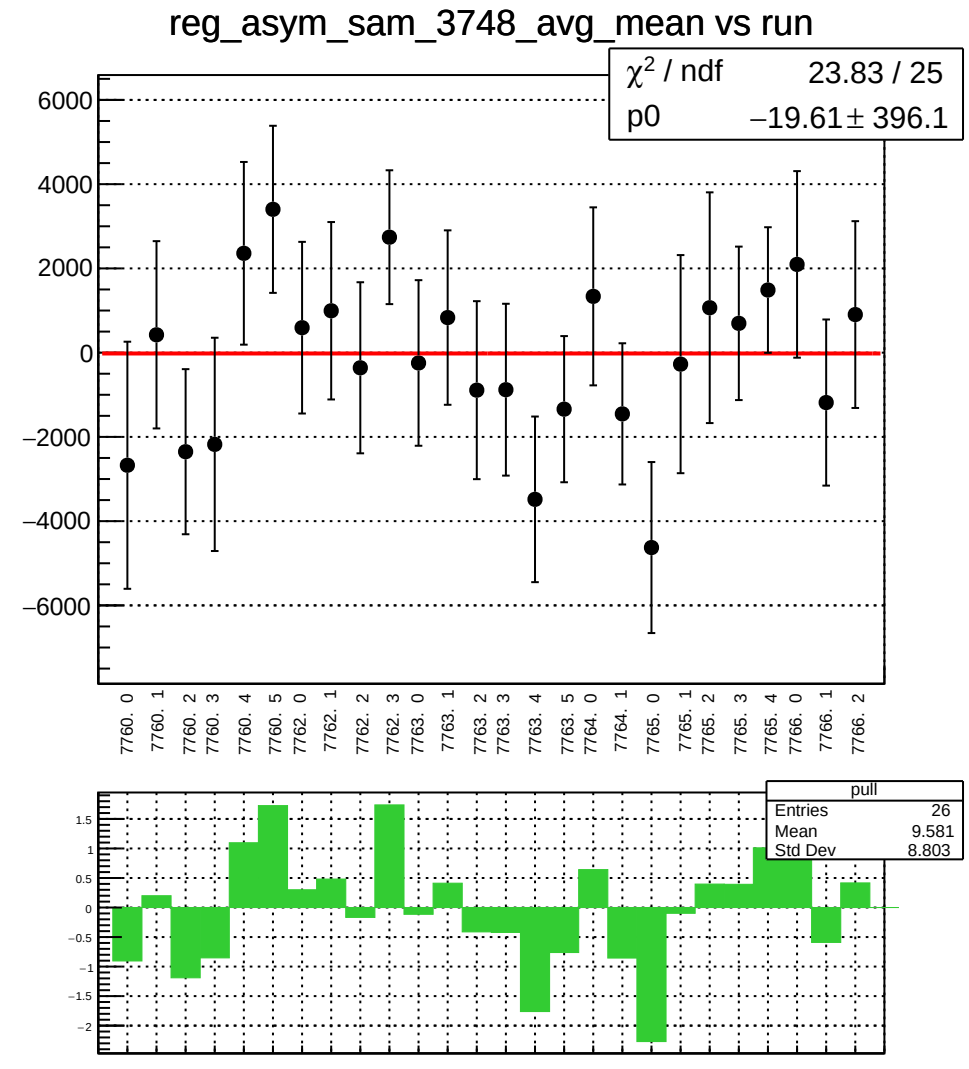

pull1D
Entries 26
Mean −0.005629
Std Dev 1.099
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

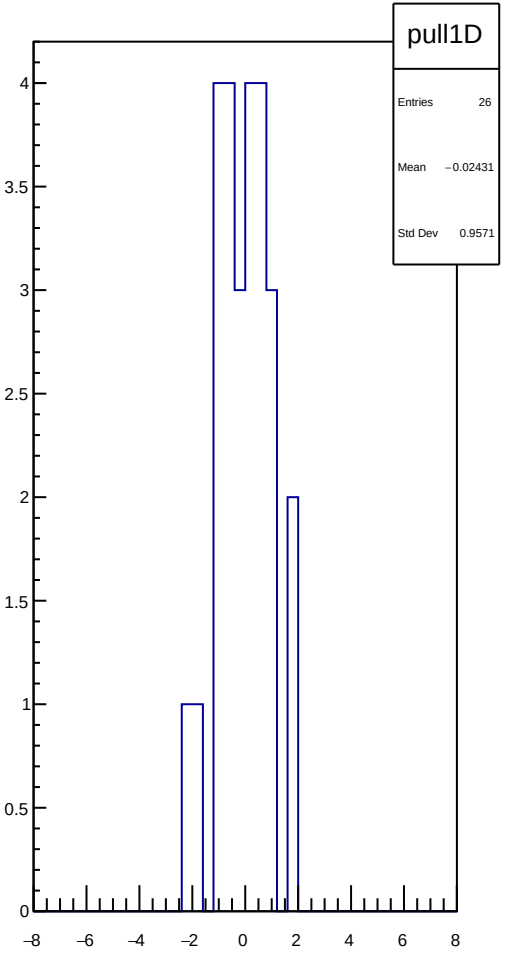

asym_sam_1548_avg_correction_rms vs run
χ² / ndf 752.4 / 25
p0 1342 ± 1.867
1450
1400
1350
1300
1250
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

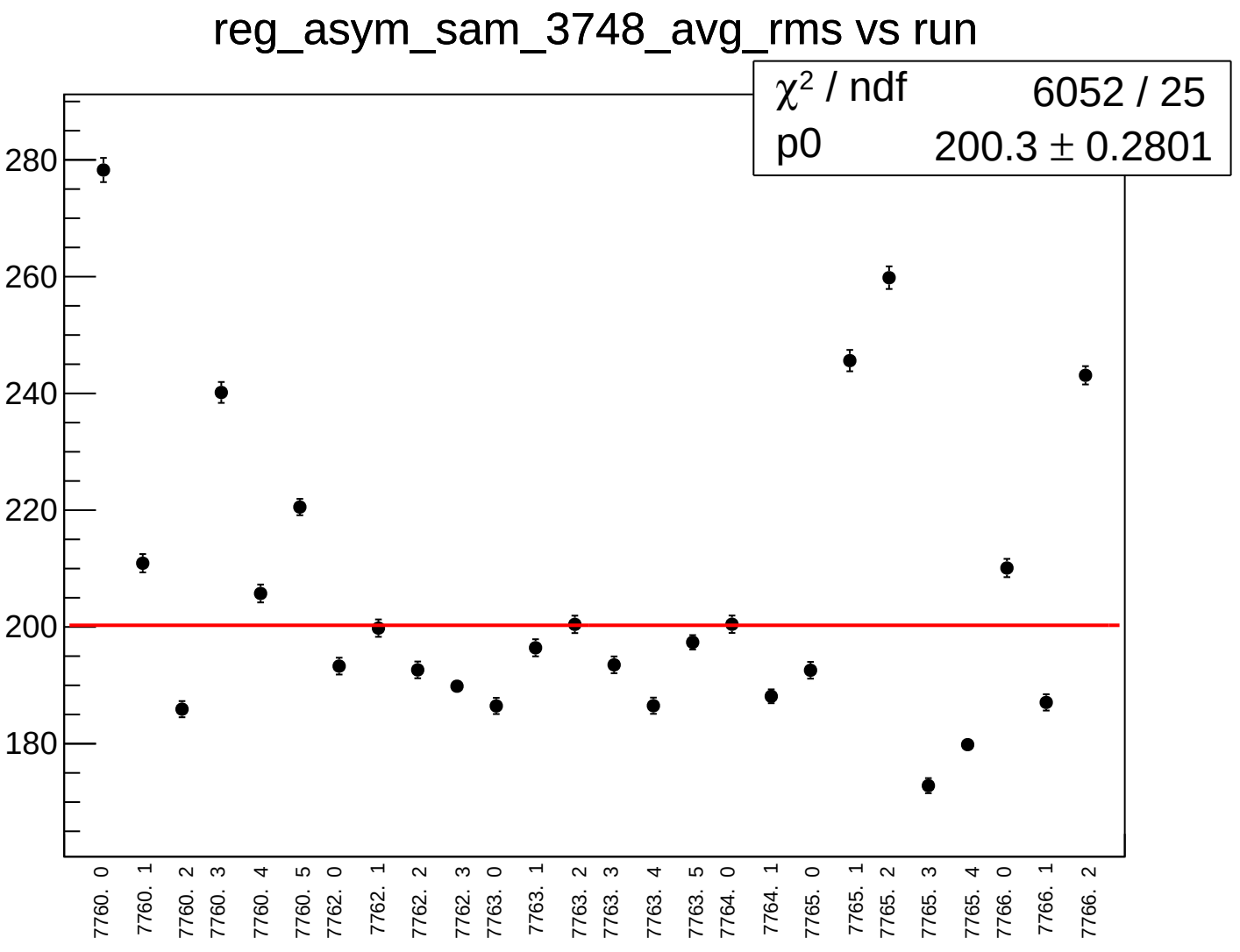

asym_sam_1548_avg_mean vs run
χ² / ndf 30.72 / 25
p0 5005 ± 2654
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 1491
Std Dev 1483
1.5
1
0.5
0
−0.5
−1
−1.5
−2

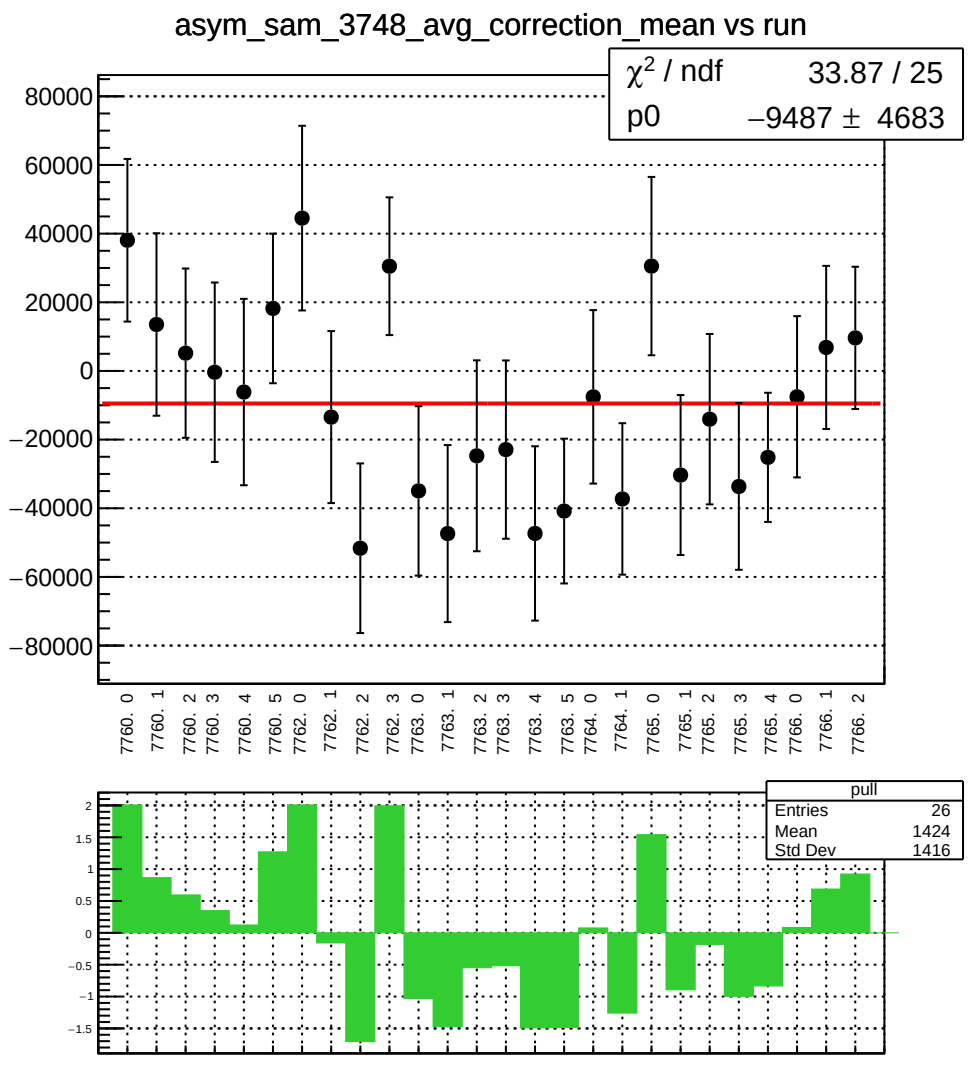

pull1D
Entries 26
Mean 0.001983
Std Dev 1.087
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

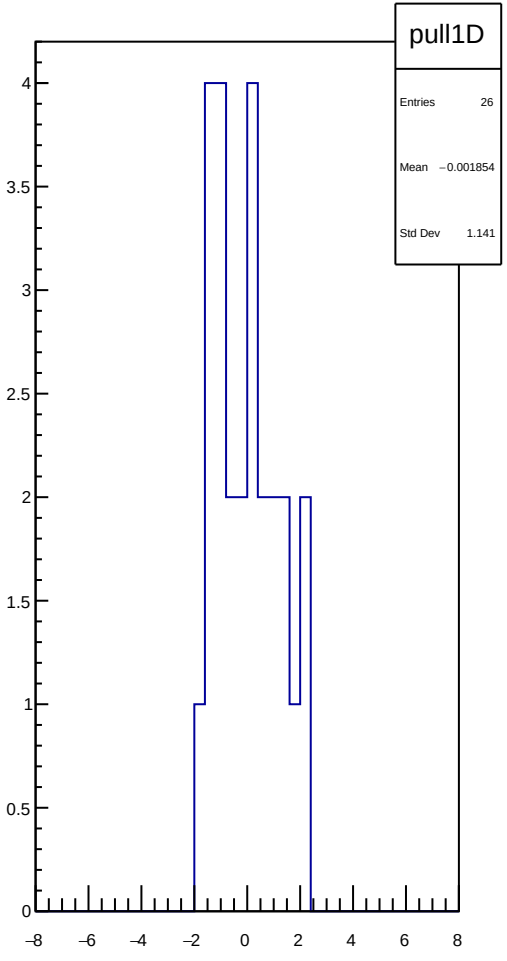

asym_sam_1548_avg_rms vs run
χ² / ndf 724.2 / 25
p0 1349 ± 1.877
1500
1450
1400
1350
1300
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

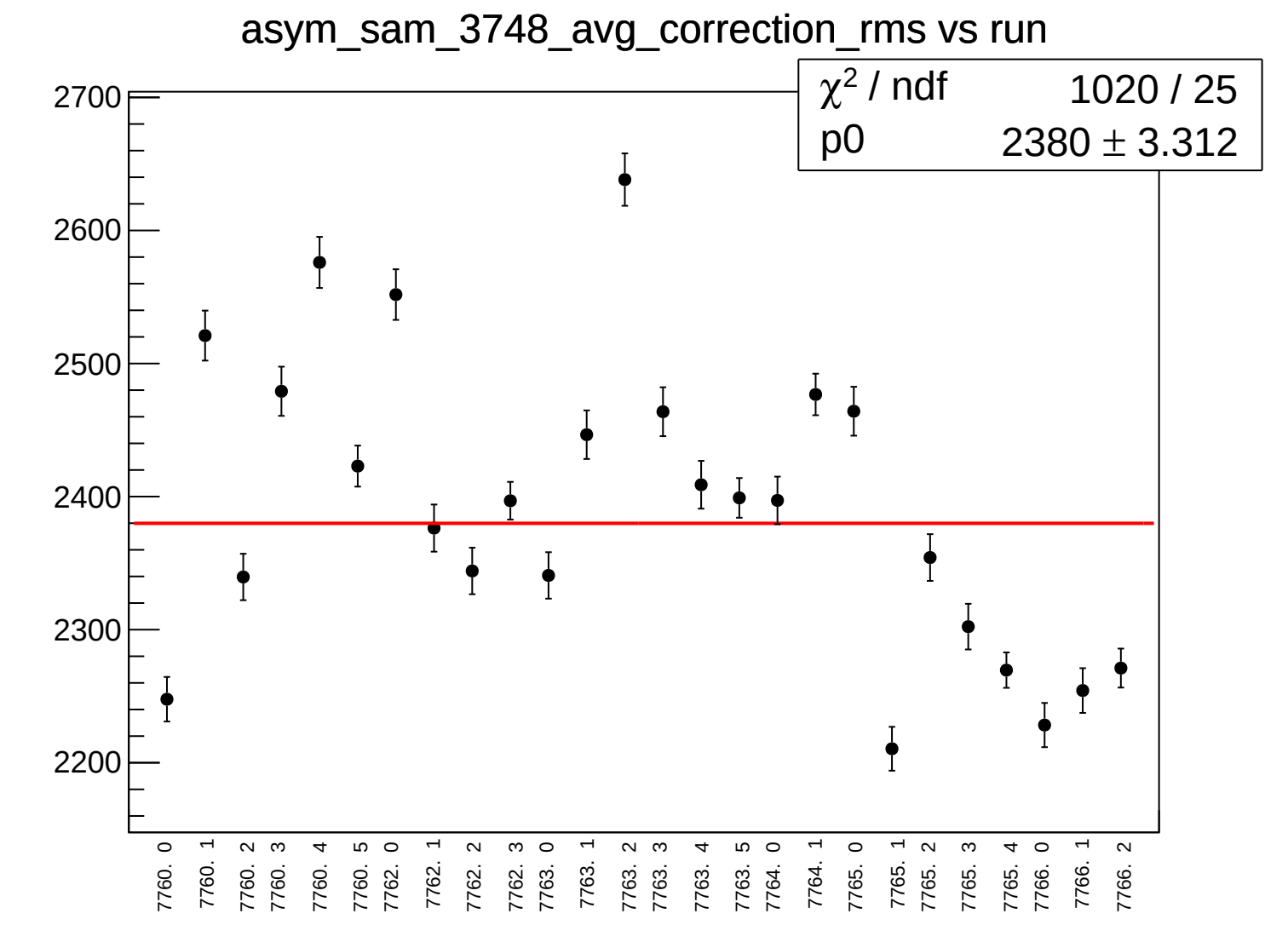

reg_asym_sam_3748_avg_mean vs run
χ² / ndf 23.83 / 25
p0 −19.61 ± 396.1
6000
4000
2000
0
−2000
−4000
−6000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 9.581
Std Dev 8.803
1.5
1
0.5
0
−0.5
−1
−1.5
−2

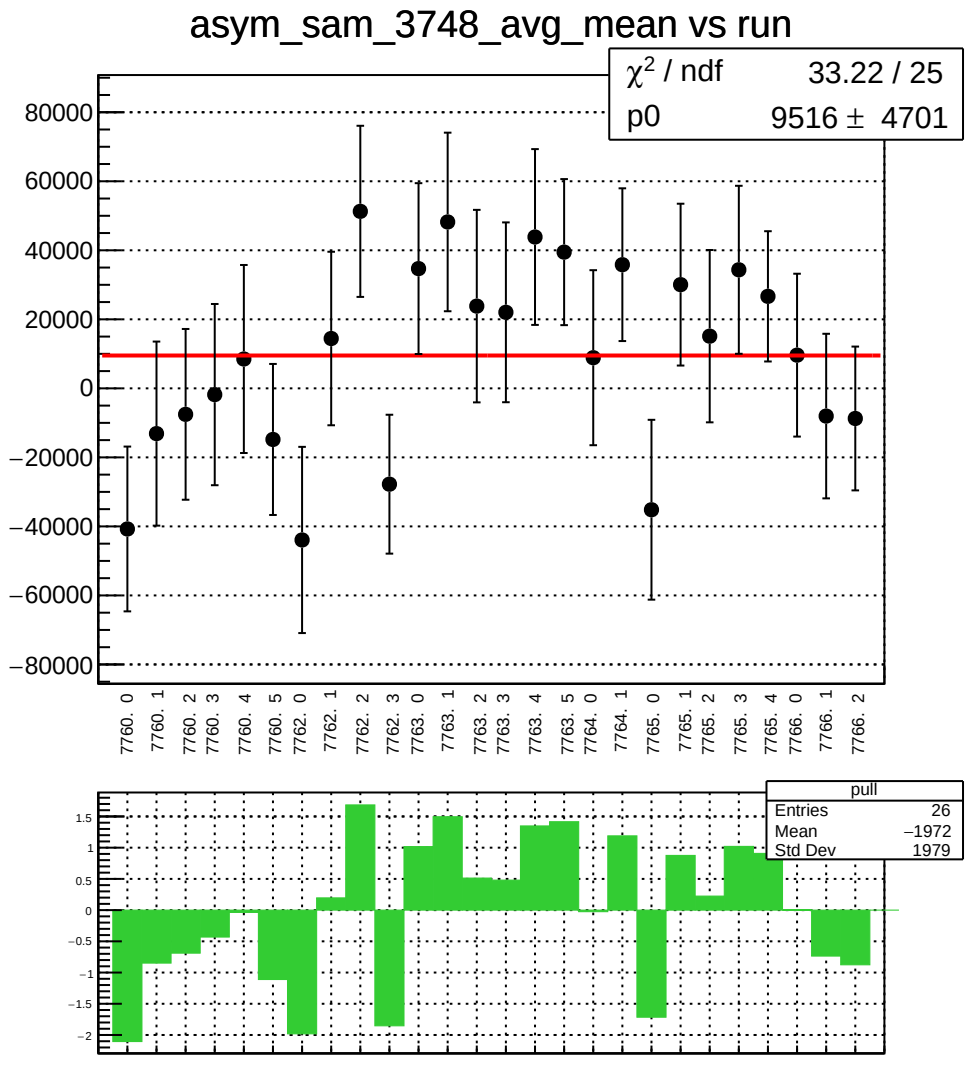

pull1D
Entries 26
Mean −0.02431
Std Dev 0.9571
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

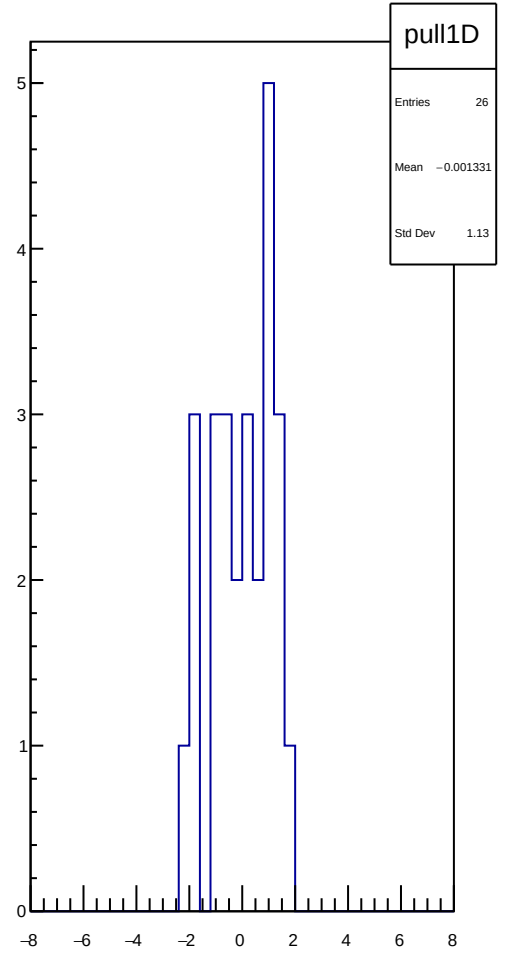

reg_asym_sam_3748_avg_rms vs run
χ² / ndf 6052 / 25
p0 200.3 ± 0.2801
280
260
240
220
200
180
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

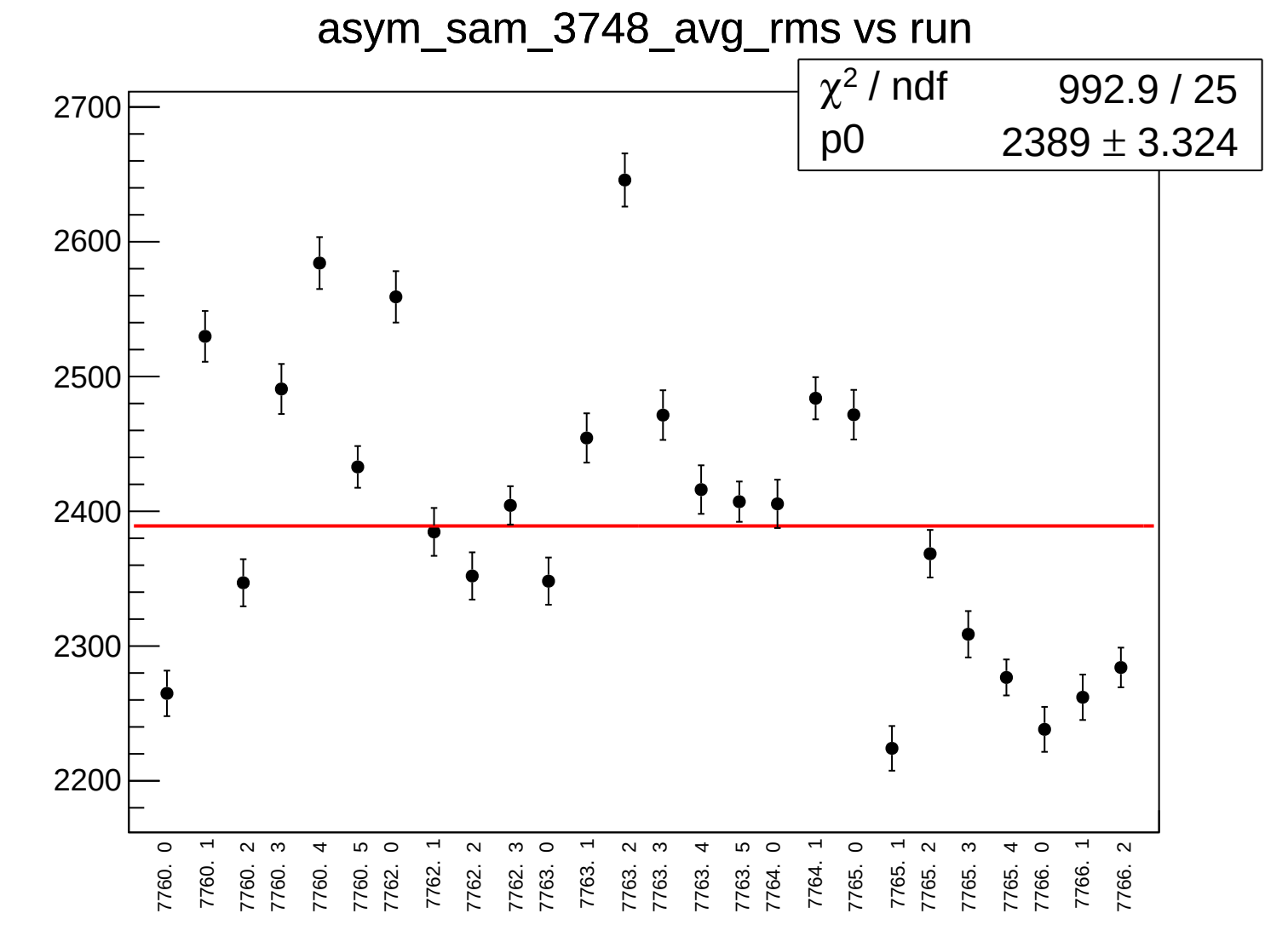

asym_sam_3748_avg_correction_mean vs run
χ² / ndf 33.87 / 25
p0 −9487 ± 4683
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 1424
Std Dev 1416
2
1.5
1
0.5
0
−0.5
−1
−1.5

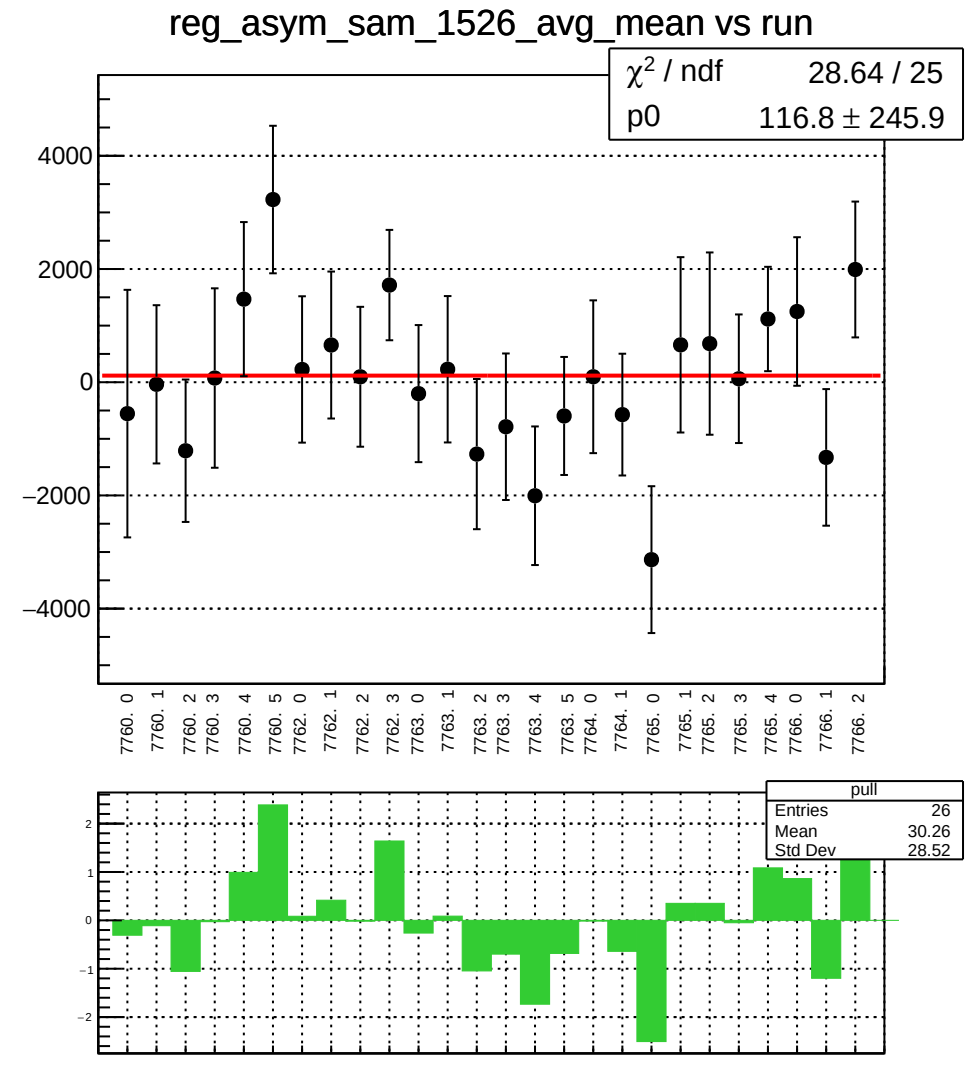

pull1D
Entries 26
Mean −0.001854
Std Dev 1.141
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

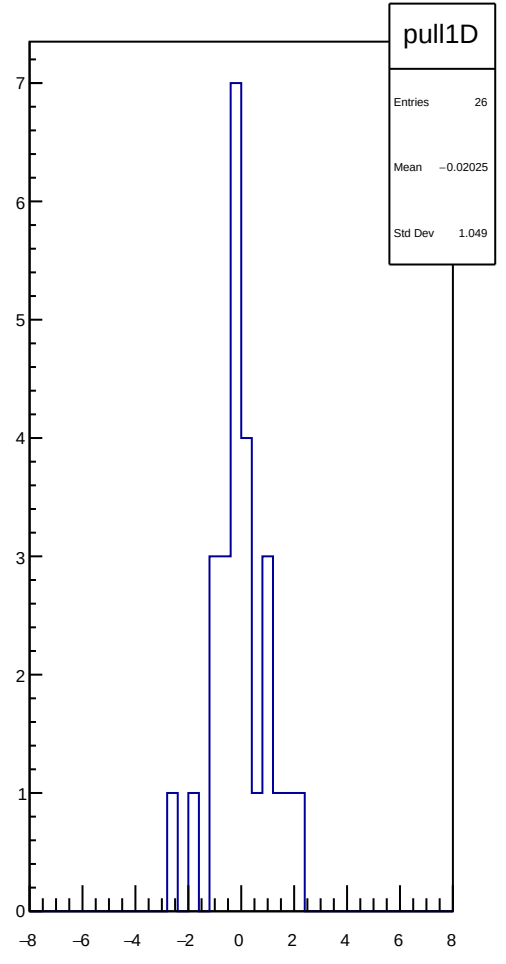

asym_sam_3748_avg_correction_rms vs run
χ² / ndf 1020 / 25
p0 2380 ± 3.312
2700
2600
2500
2400
2300
2200
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

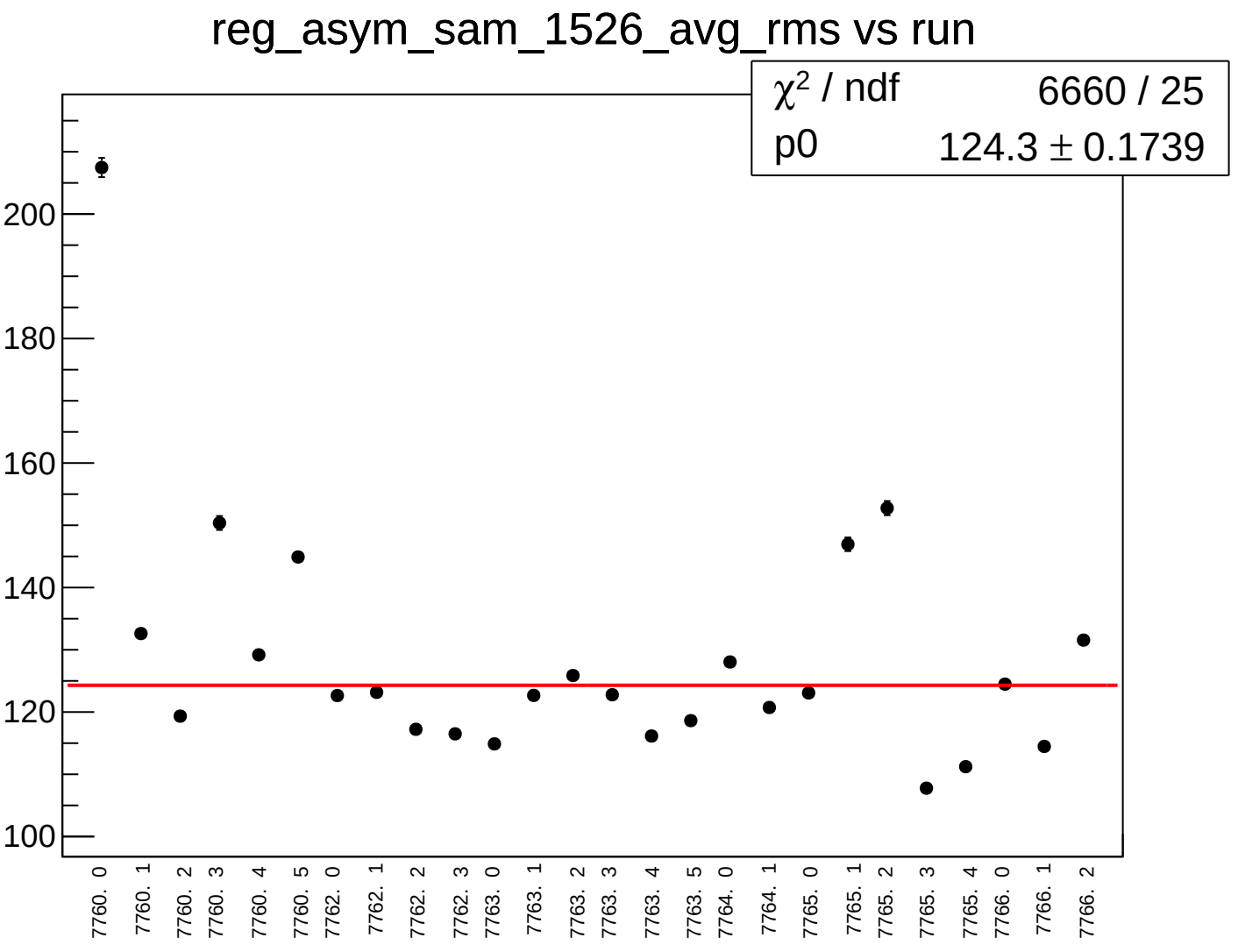

asym_sam_3748_avg_mean vs run
χ² / ndf 33.22 / 25
p0 9516 ± 4701
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −1972
Std Dev 1979
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 26
Mean −0.001331
Std Dev 1.13
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_3748_avg_rms vs run
χ² / ndf 992.9 / 25
p0 2389 ± 3.324
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
7765. 4
7766. 0
7766. 1
7766. 2


reg_asym_sam_1526_avg_mean vs run
χ² / ndf 28.64 / 25
p0 116.8 ± 245.9
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
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 30.26
Std Dev 28.52
2
1
0
−1
−2


pull1D
Entries 26
Mean −0.02025
Std Dev 1.049
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_1526_avg_rms vs run
χ² / ndf 6660 / 25
p0 124.3 ± 0.1739
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
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7765. 0
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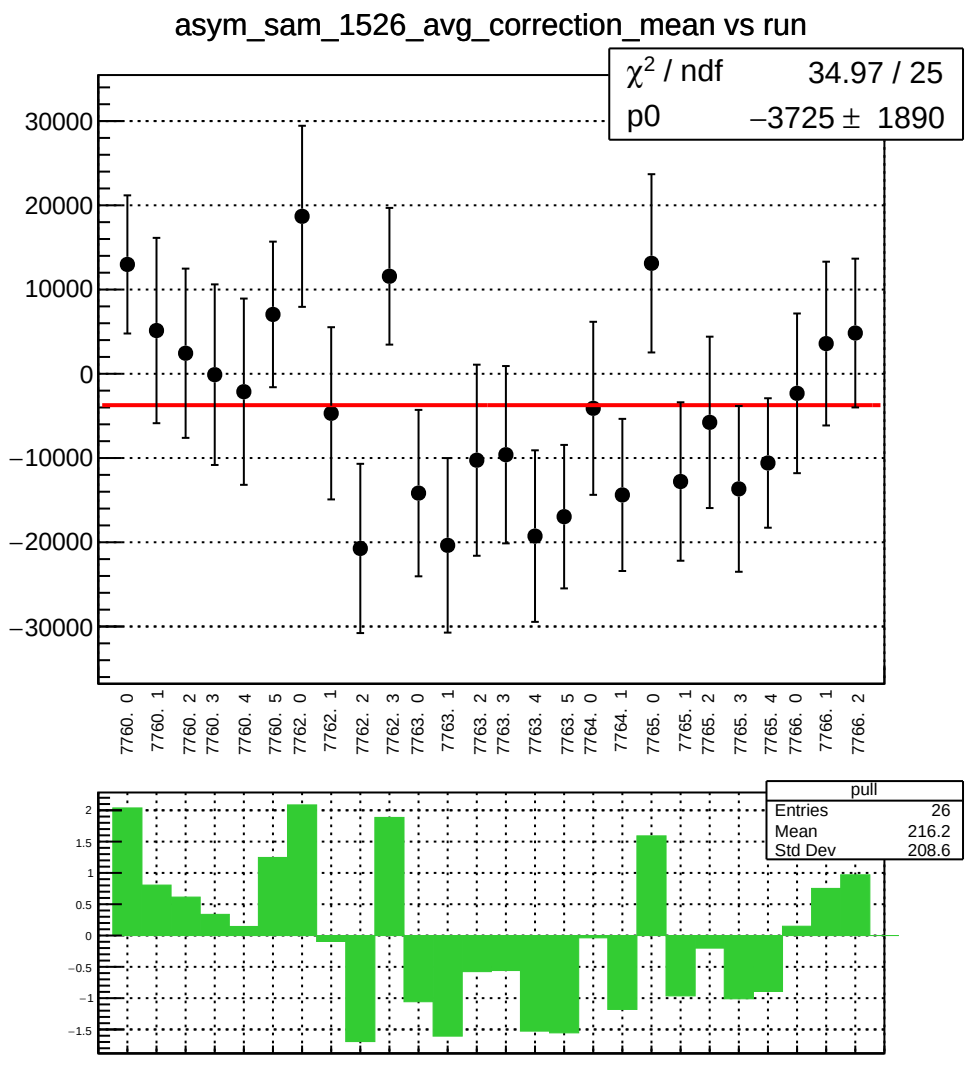
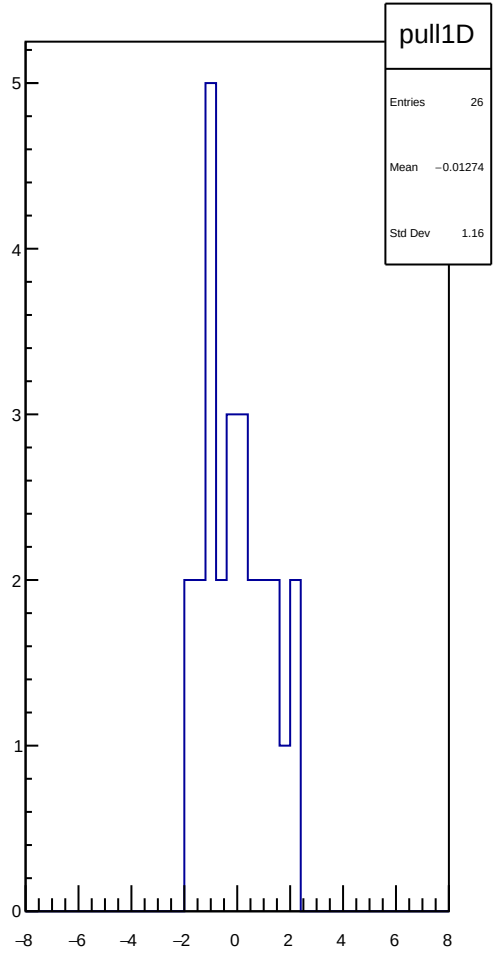
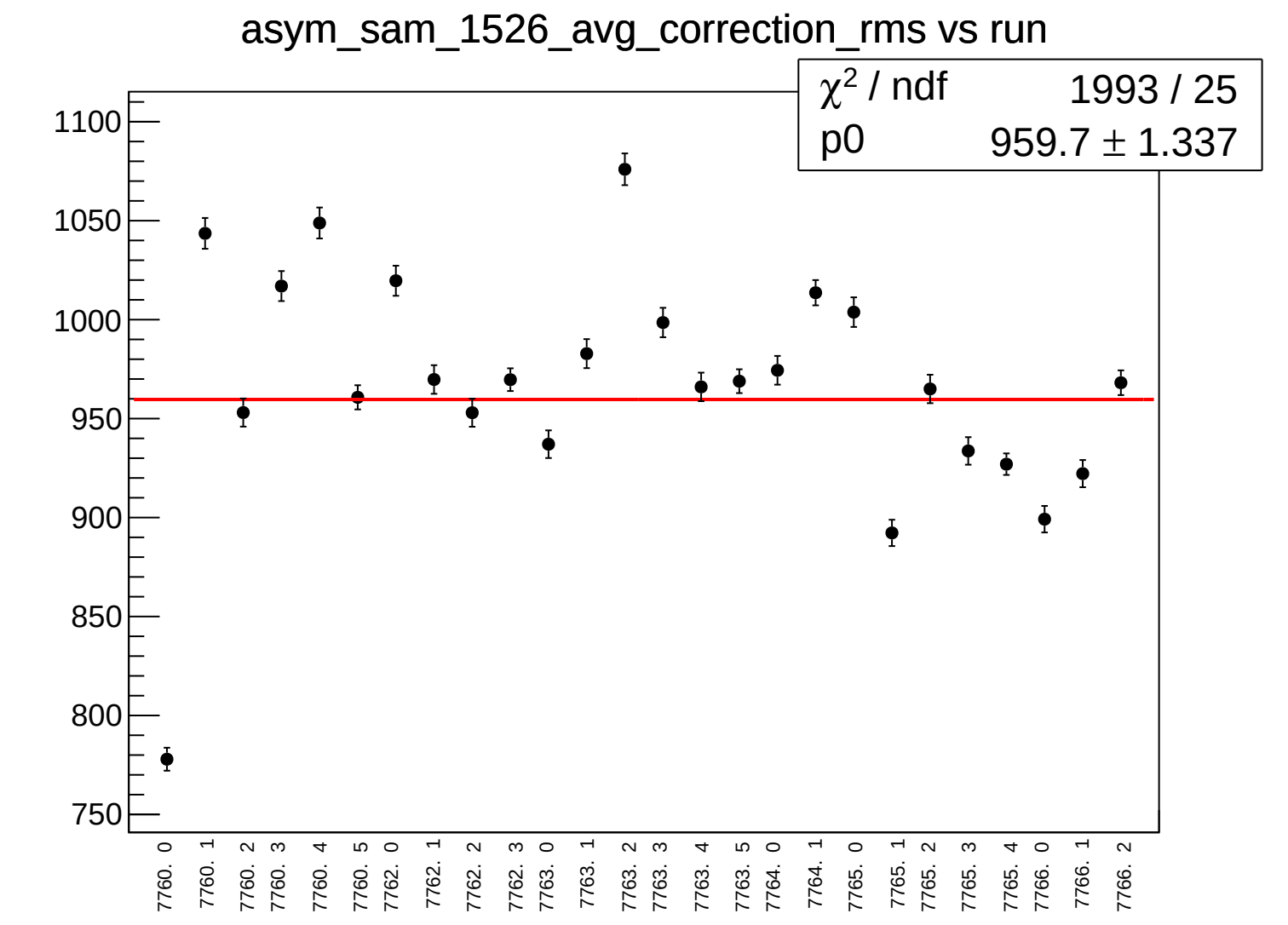
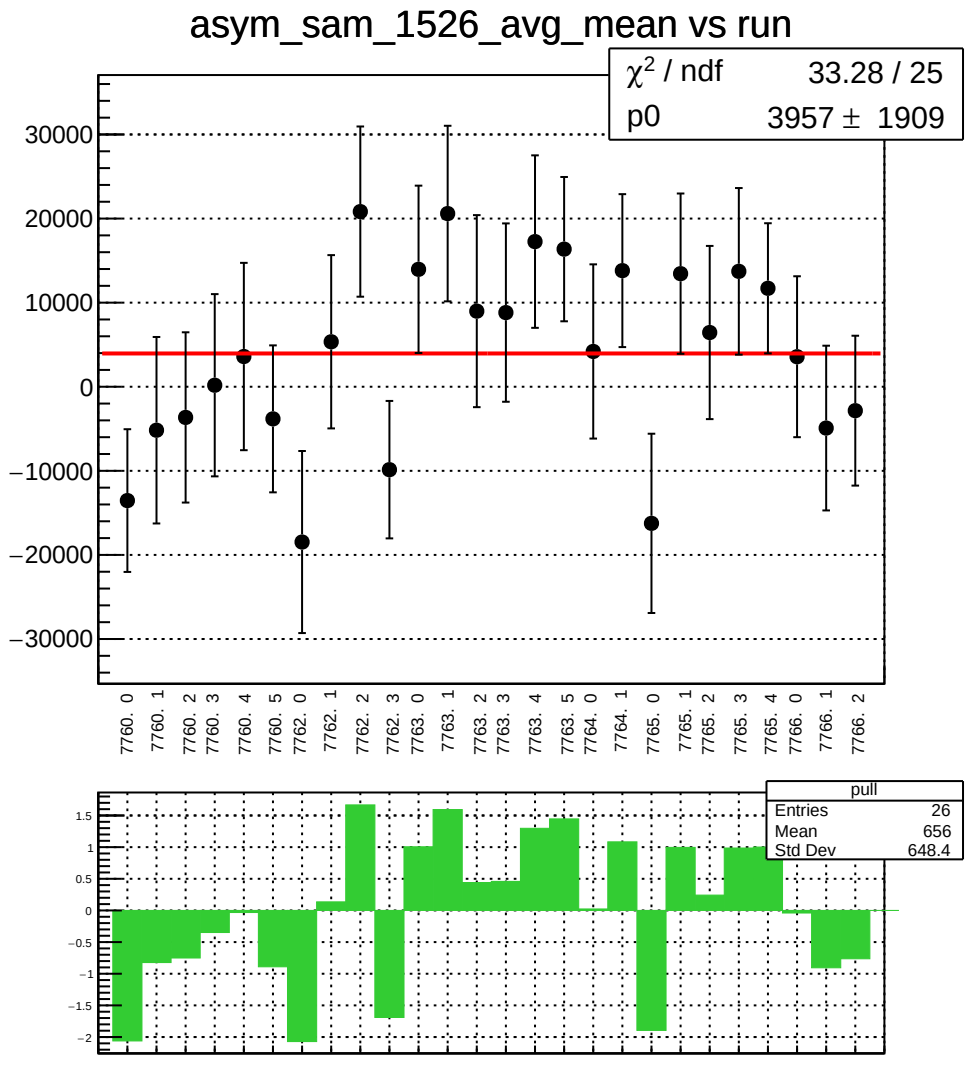
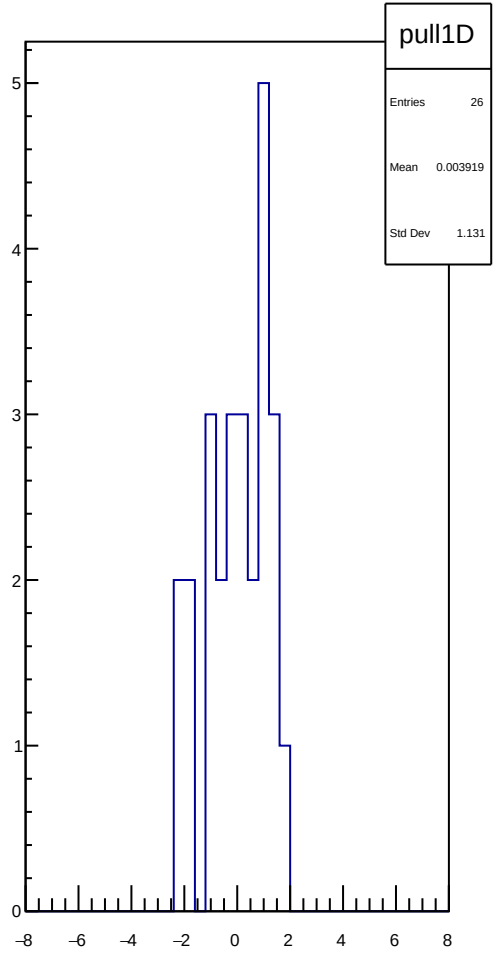
7766. 1
7766. 2

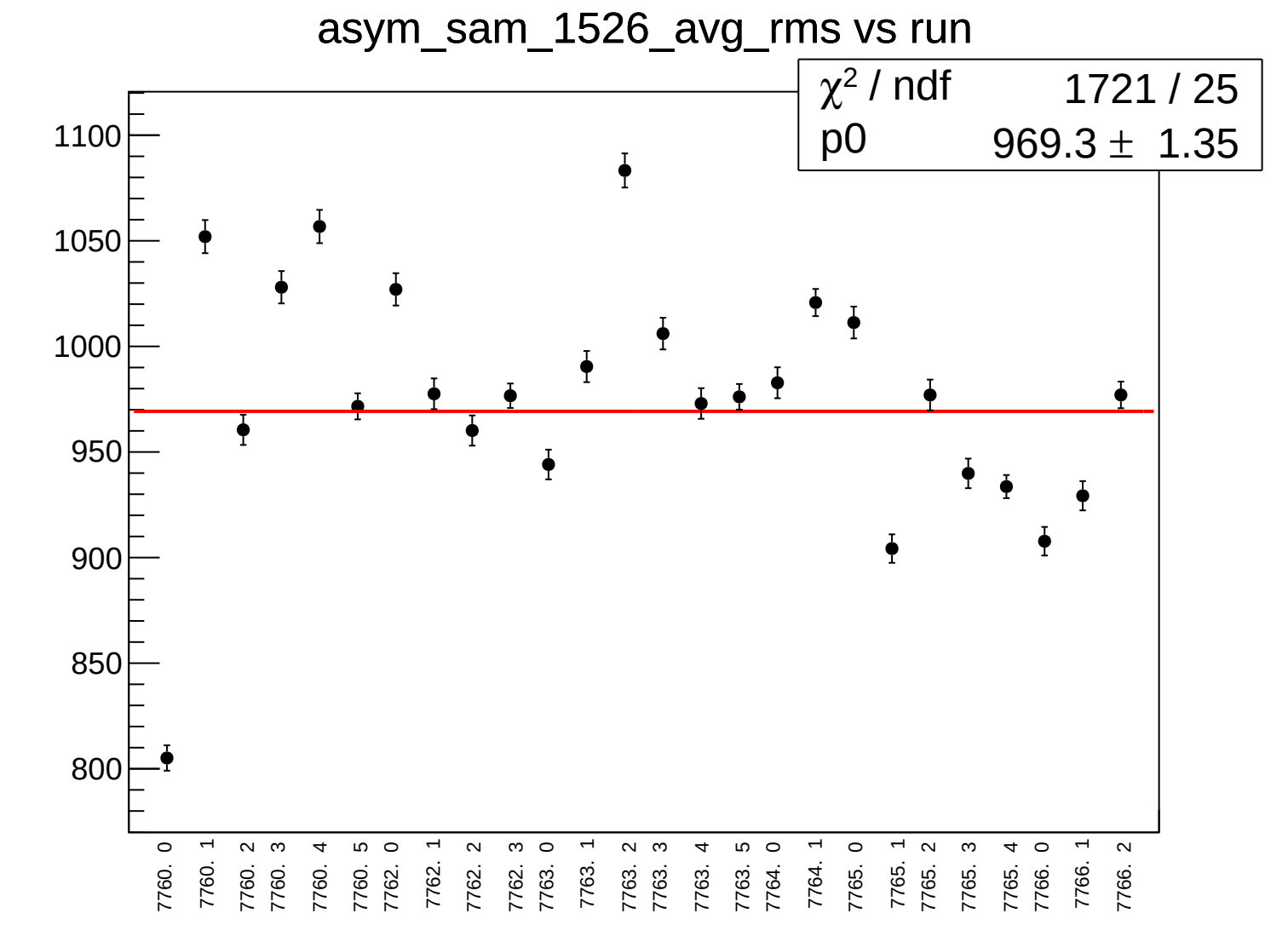

asym_sam_1526_avg_correction_mean vs run
χ² / ndf 34.97 / 25
p0 −3725 ± 1890
30000
20000
10000
0
−10000
−20000
−30000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 216.2
Std Dev 208.6
2
1.5
1
0.5
0
−0.5
−1
−1.5

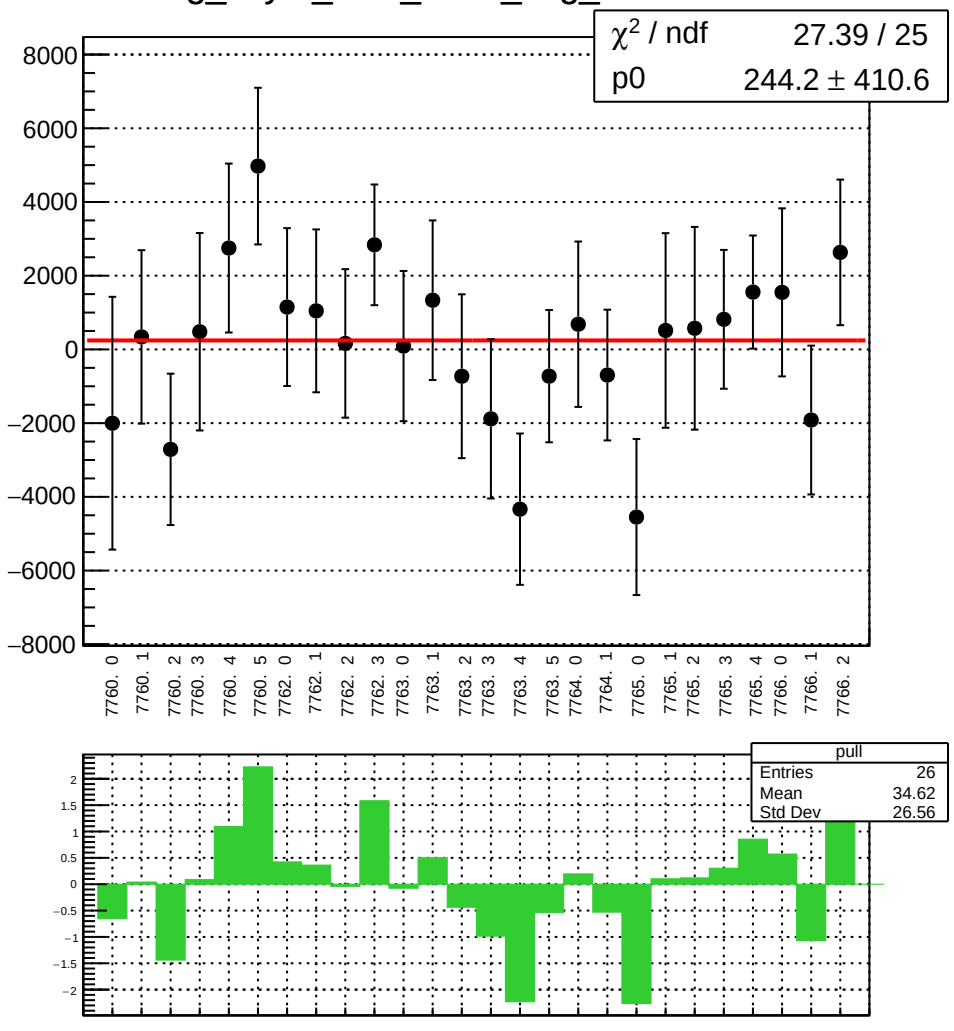

pull1D
Entries 26
Mean −0.01274
Std Dev 1.16
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

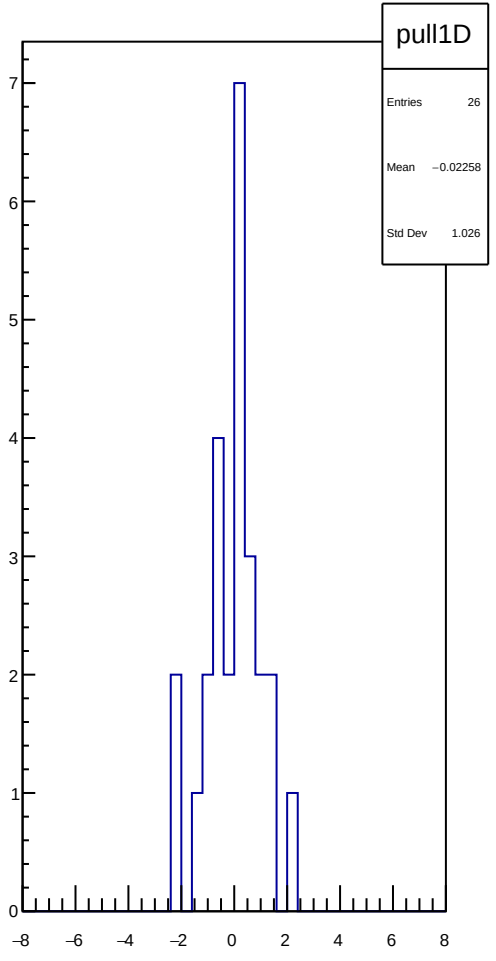

asym_sam_1526_avg_correction_rms vs run
χ² / ndf 1993 / 25
p0 959.7 ± 1.337
1100
1050
1000
950
900
850
800
750
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

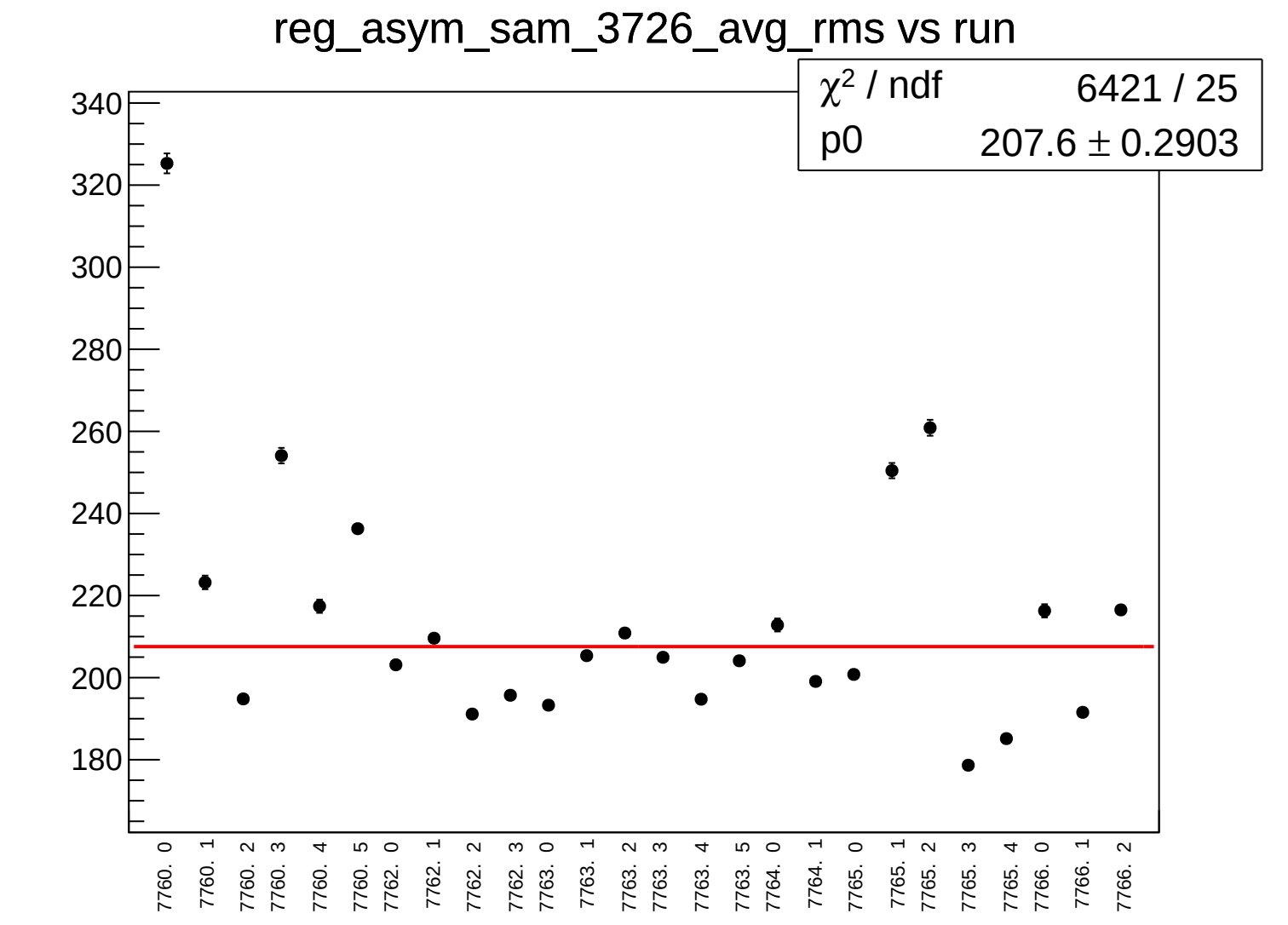

asym_sam_1526_avg_mean vs run
χ² / ndf 33.28 / 25
p0 3957 ± 1909
30000
20000
10000
0
−10000
−20000
−30000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 656
Std Dev 648.4
1.5
1
0.5
0
−0.5
−1
−1.5
−2

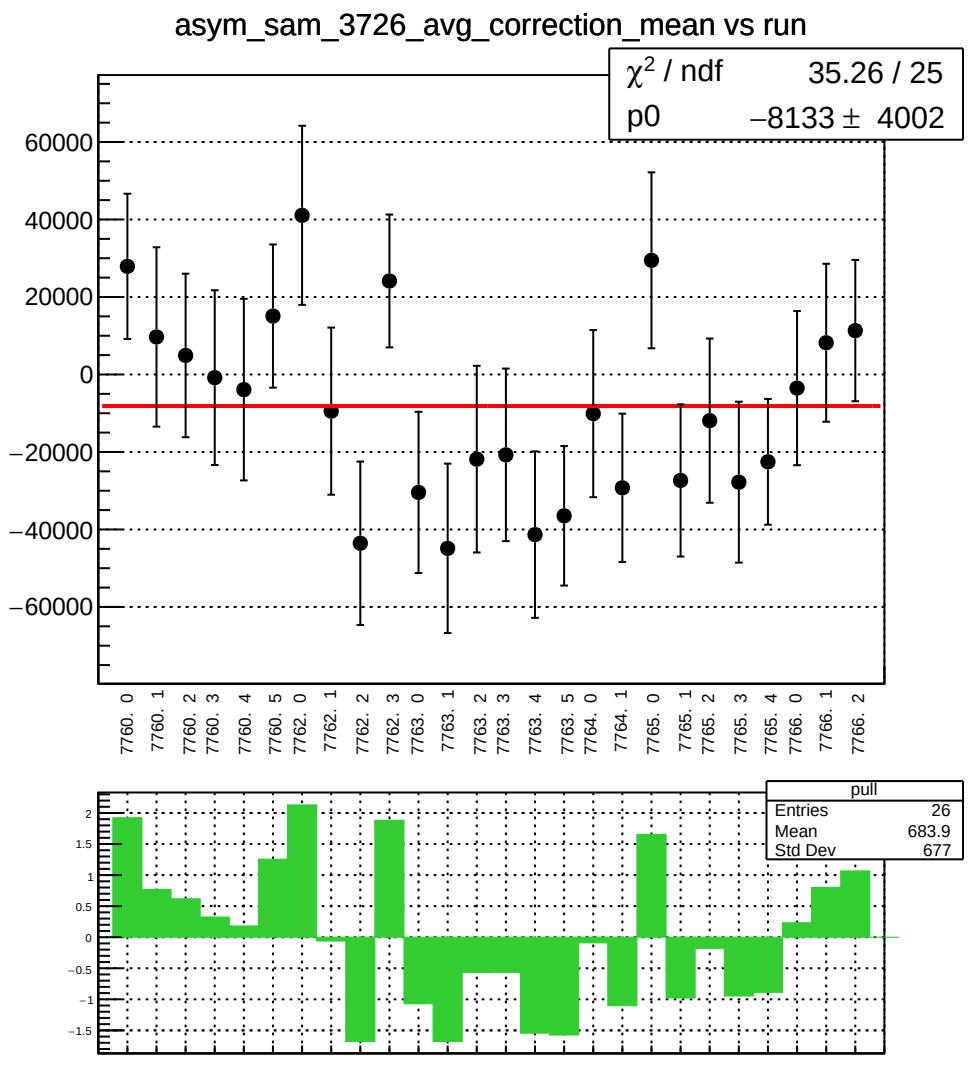

pull1D
Entries 26
Mean 0.003919
Std Dev 1.131
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

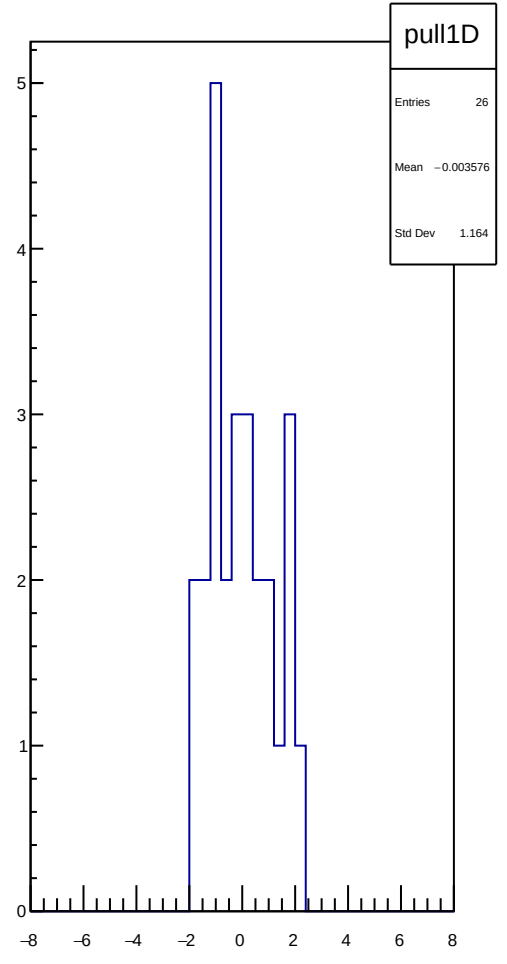

asym_sam_1526_avg_rms vs run
χ² / ndf 1721 / 25
p0 969.3 ± 1.35
1100
1050
1000
950
900
850
800
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

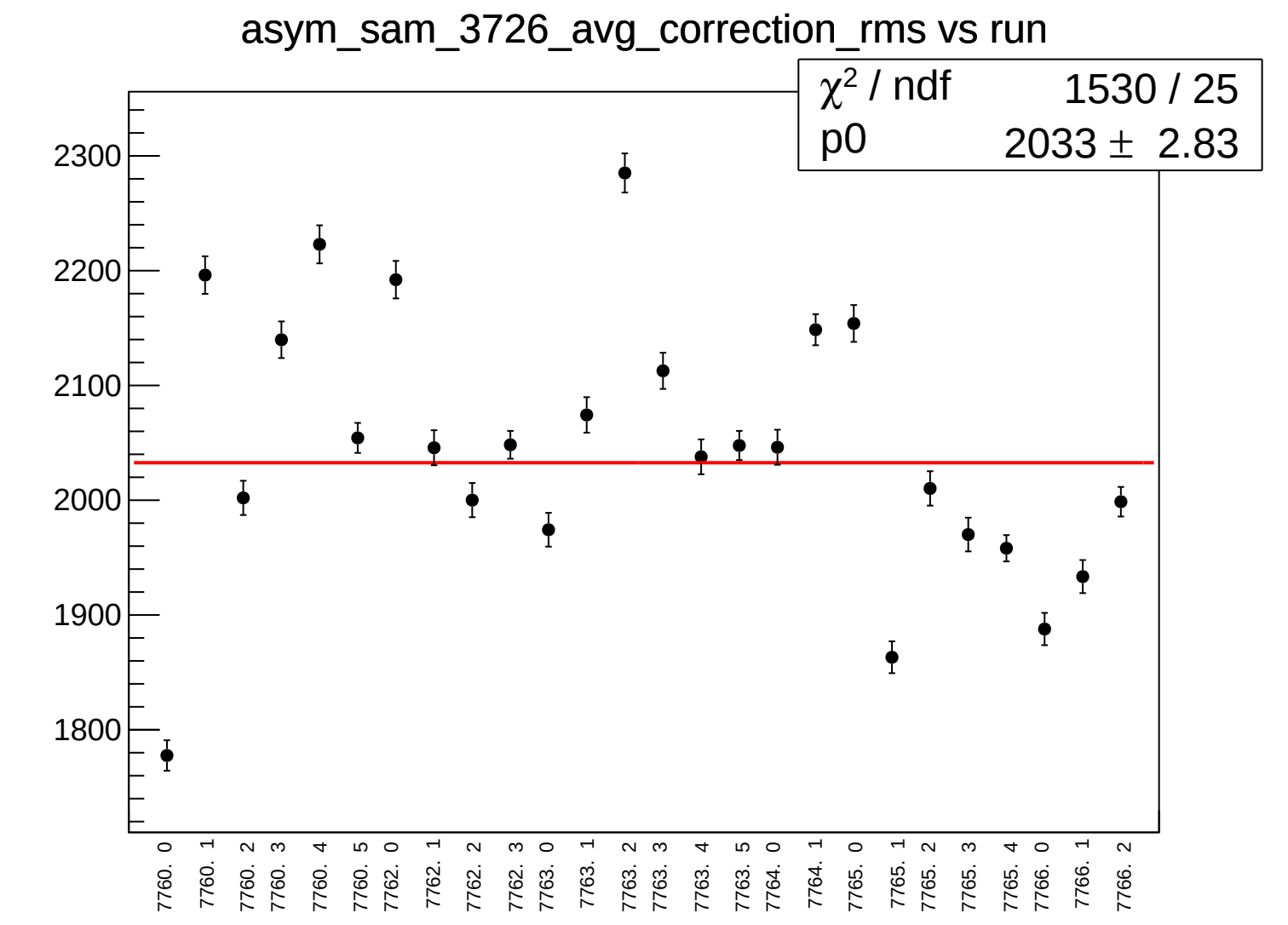

reg_asym_sam_3726_avg_mean vs run
χ² / ndf 27.39 / 25
p0 244.2 ± 410.6
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 34.62
Std Dev 26.56
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

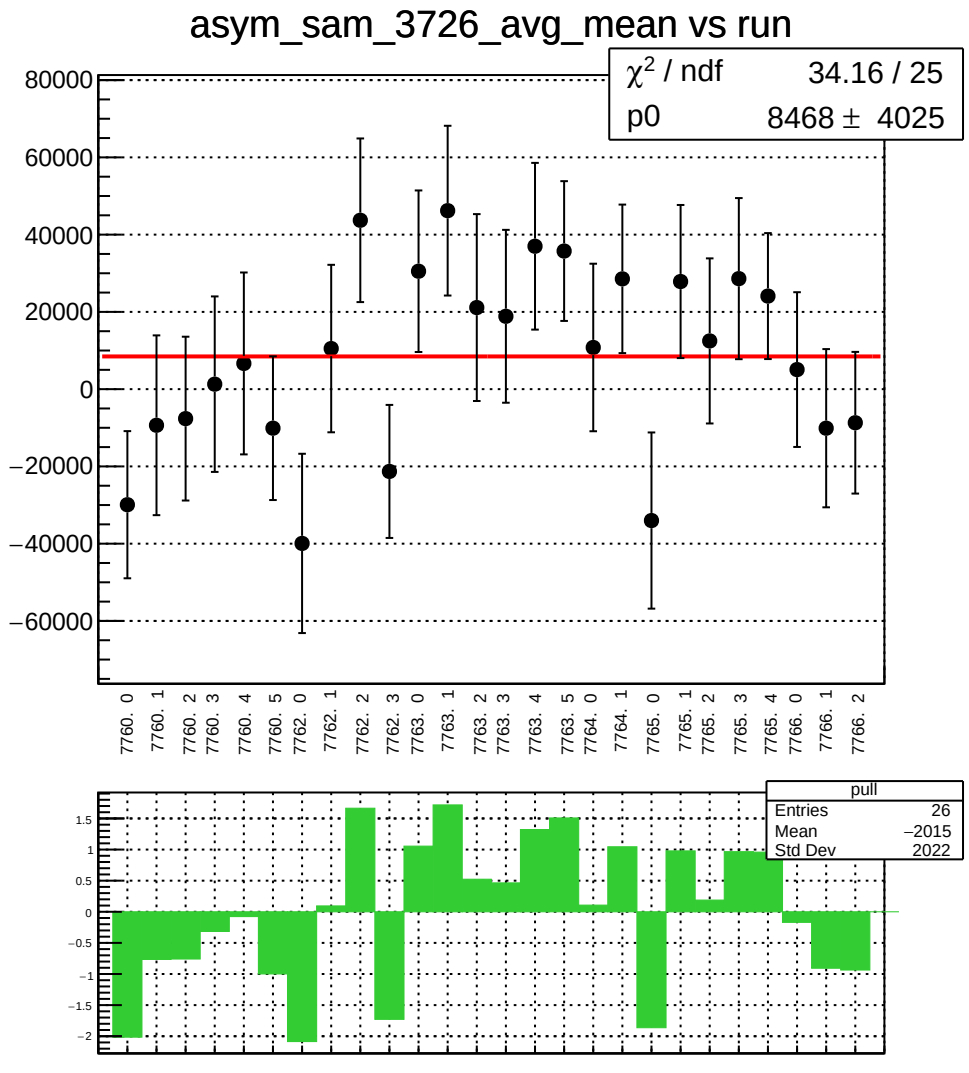

pull1D
Entries 26
Mean −0.02258
Std Dev 1.026
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

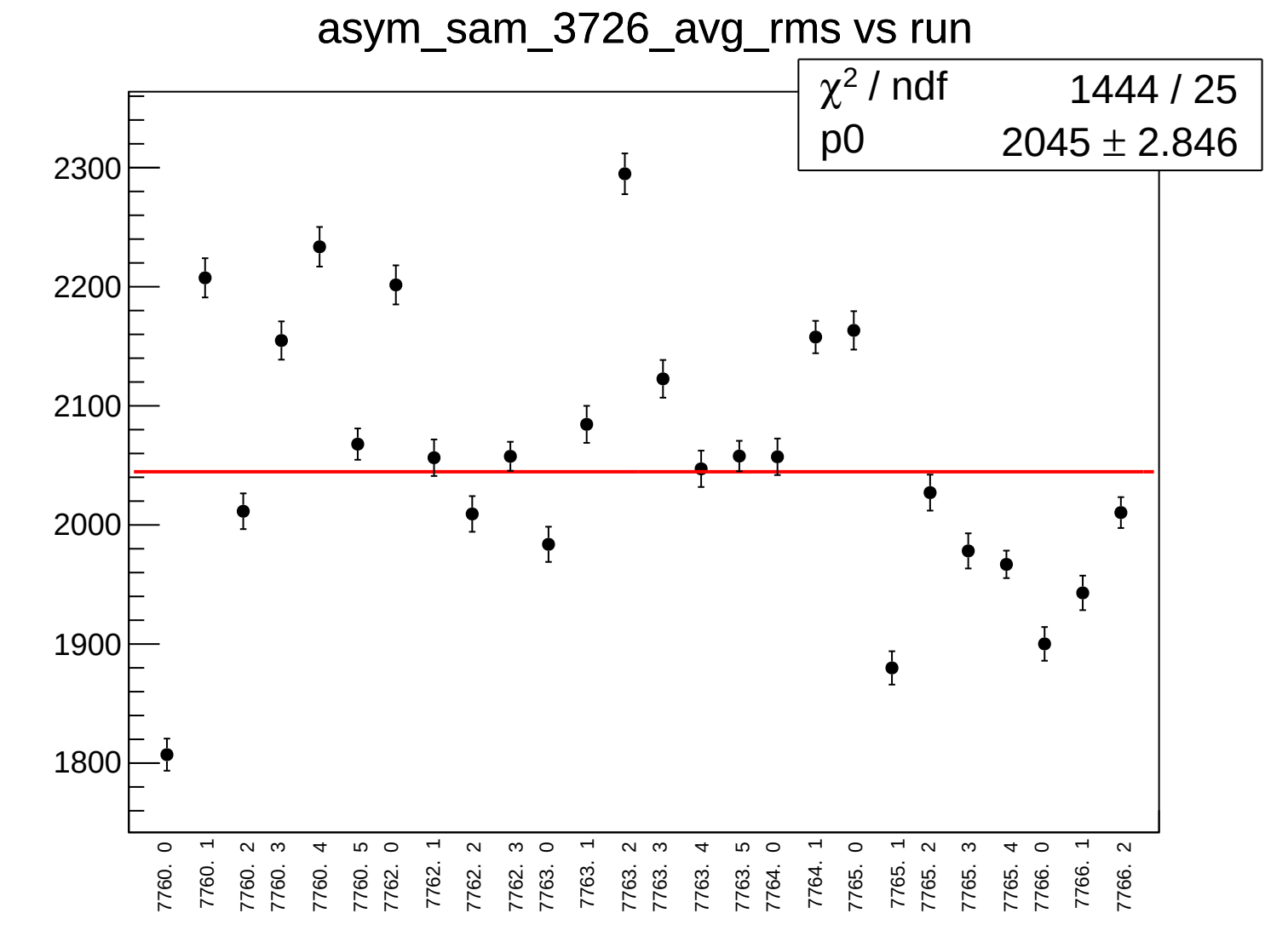

reg_asym_sam_3726_avg_rms vs run
χ² / ndf 6421 / 25
p0 207.6 ± 0.2903
340
320
300
280
260
240
220
200
180
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

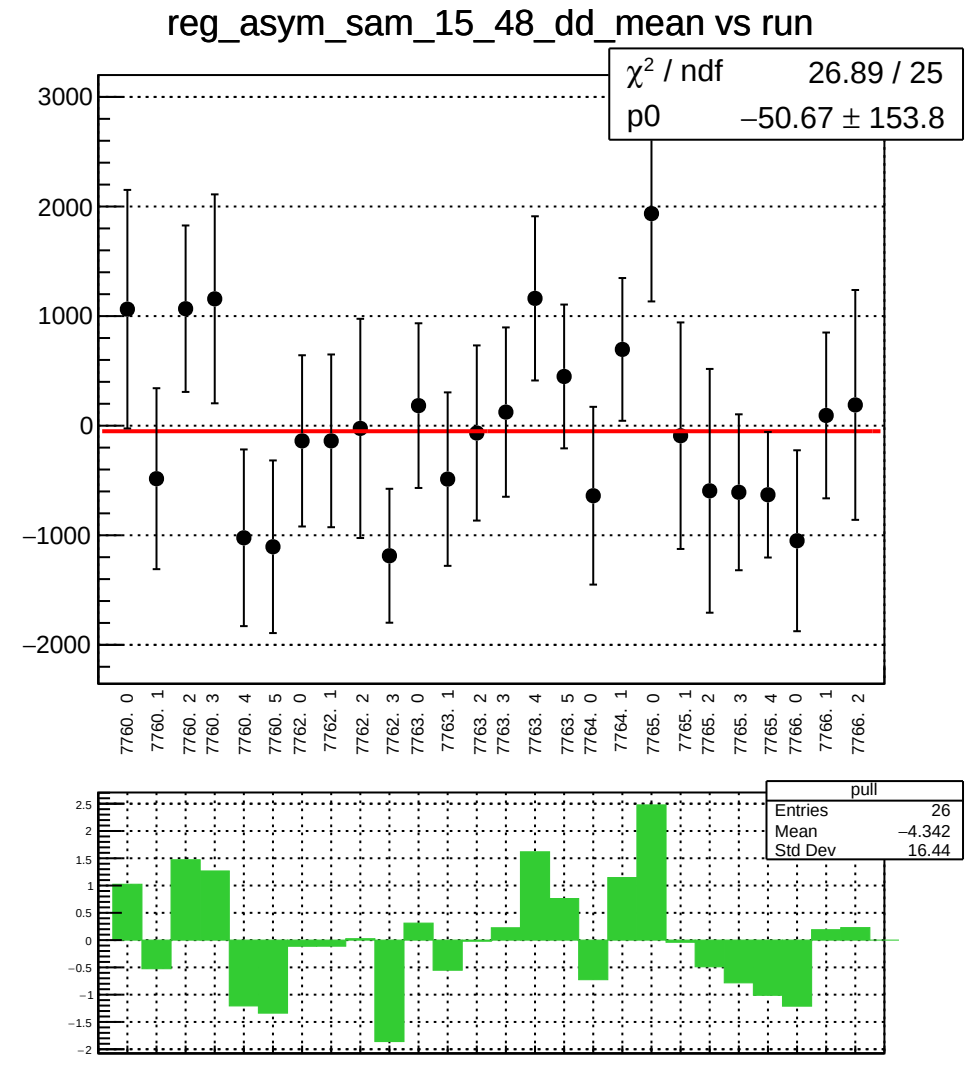

asym_sam_3726_avg_correction_mean vs run
χ² / ndf 35.26 / 25
p0 −8133 ± 4002
60000
40000
20000
0
−20000
−40000
−60000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 683.9
Std Dev 677
2
1.5
1
0.5
0
−0.5
−1
−1.5

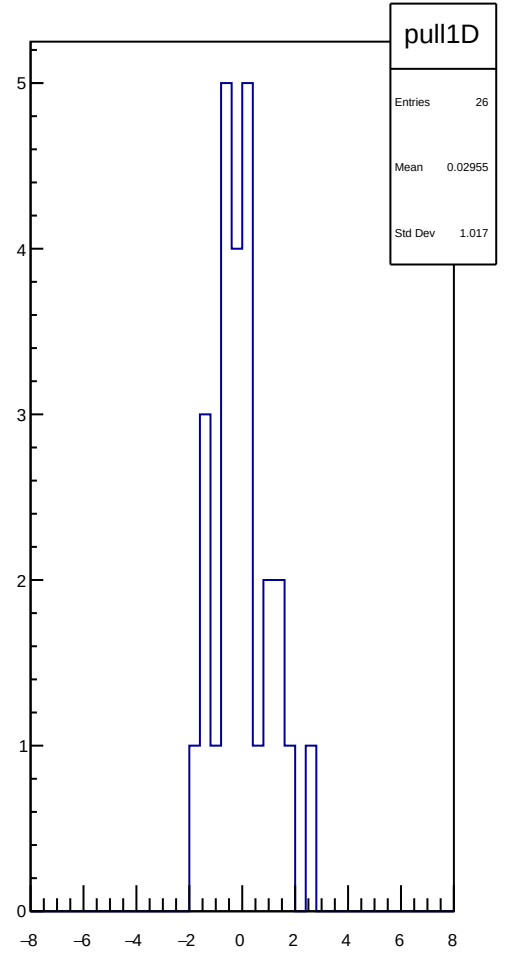

pull1D
Entries 26
Mean −0.003576
Std Dev 1.164
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

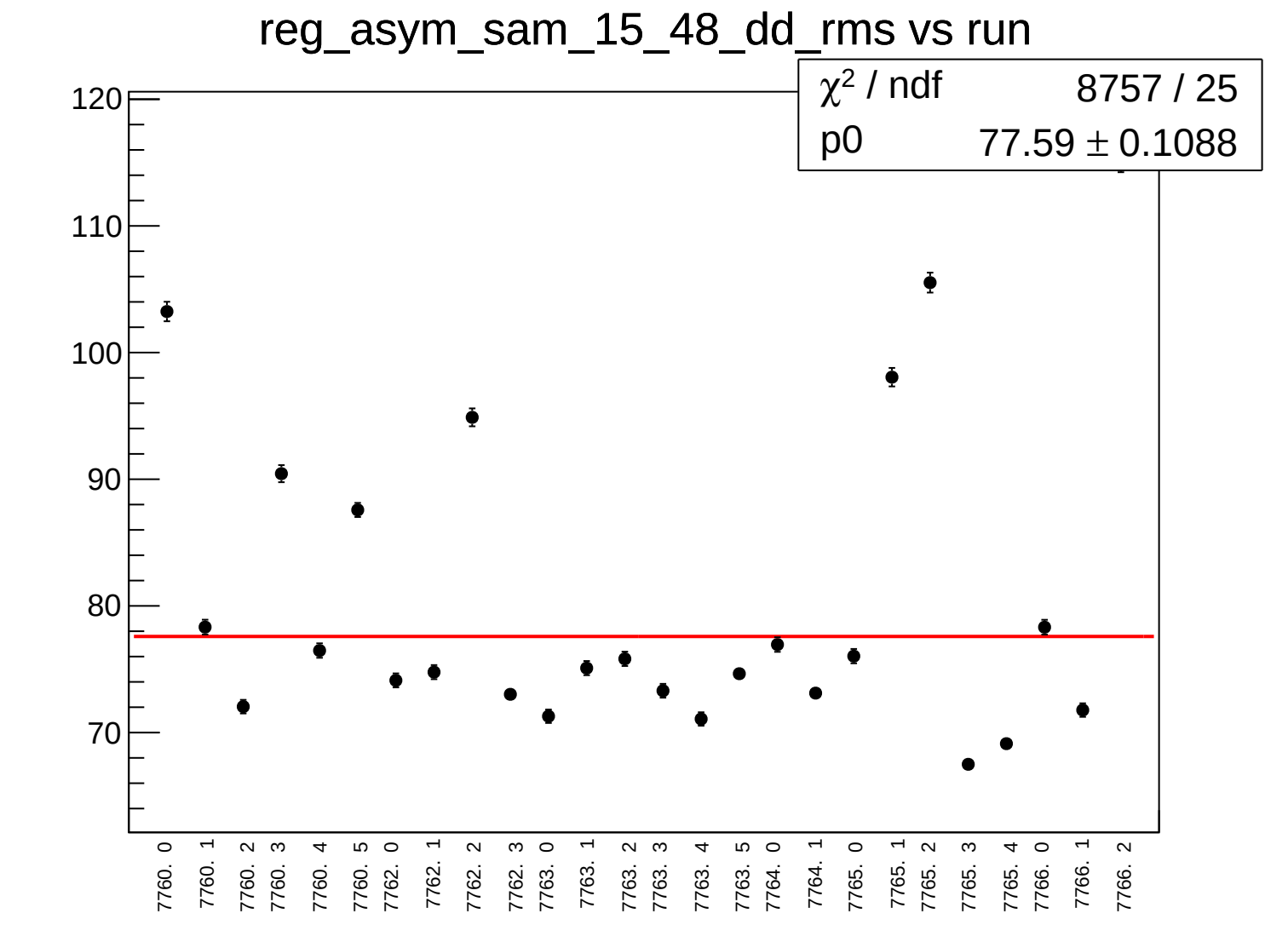

asym_sam_3726_avg_correction_rms vs run
χ² / ndf 1530 / 25
p0 2033 ± 2.83
2300
2200
2100
2000
1900
1800
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

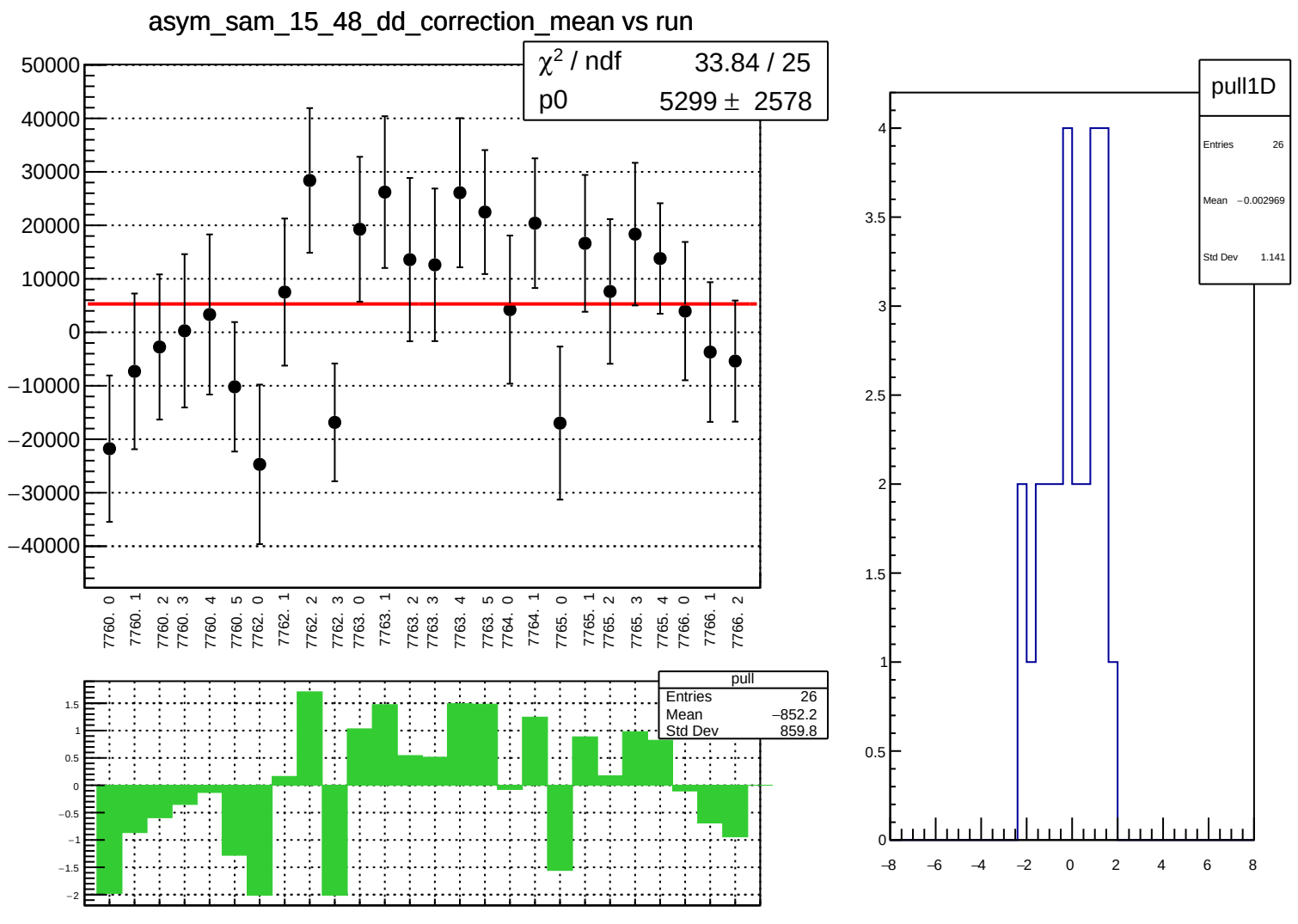

asym_sam_3726_avg_mean vs run
χ² / ndf 34.16 / 25
p0 8468 ± 4025
80000
60000
40000
20000
0
−20000
−40000
−60000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −2015
Std Dev 2022
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 26
Mean −0.001161
Std Dev 1.146
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

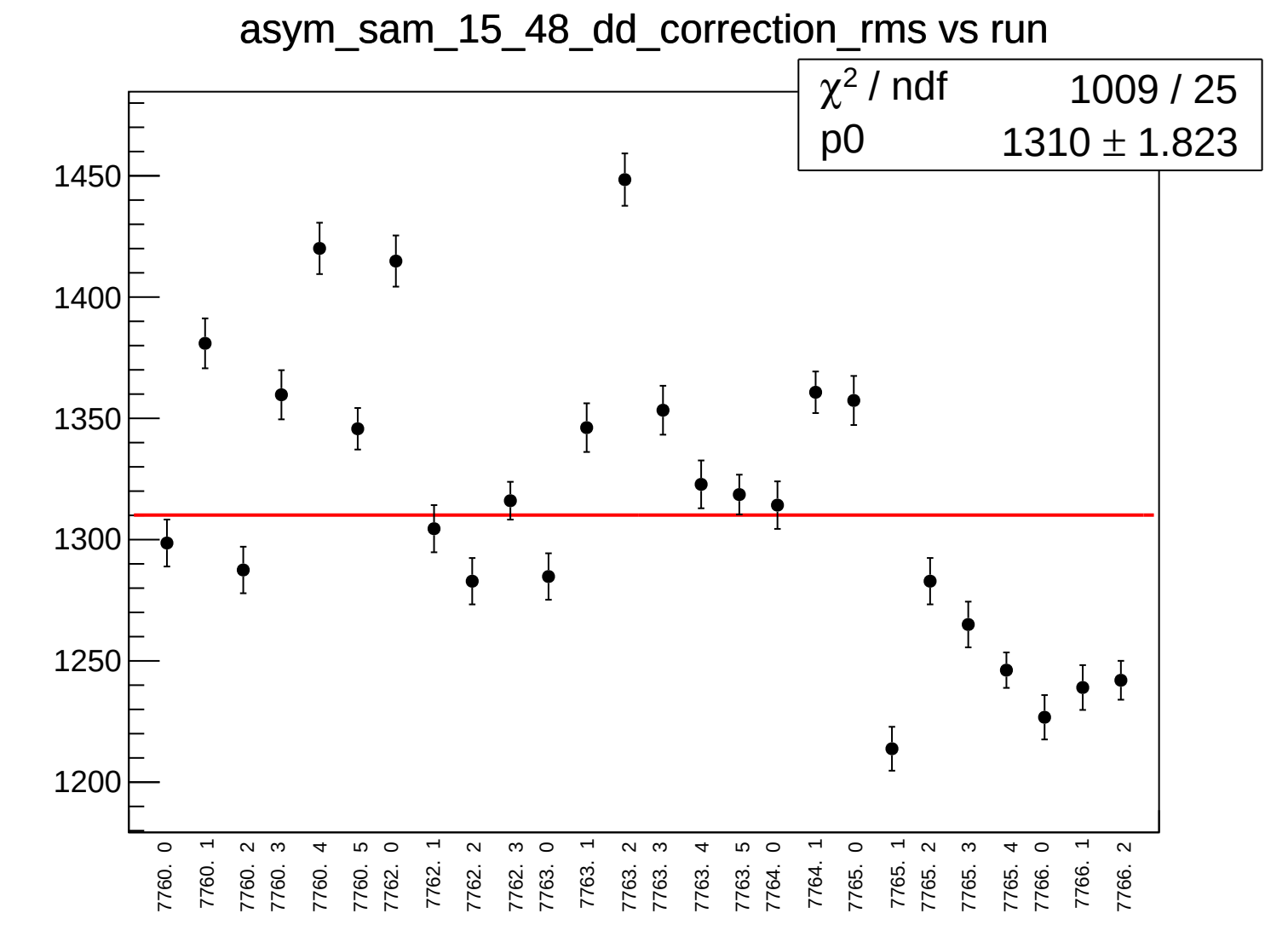

asym_sam_3726_avg_rms vs run
χ² / ndf 1444 / 25
p0 2045 ± 2.846
2300
2200
2100
2000
1900
1800
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

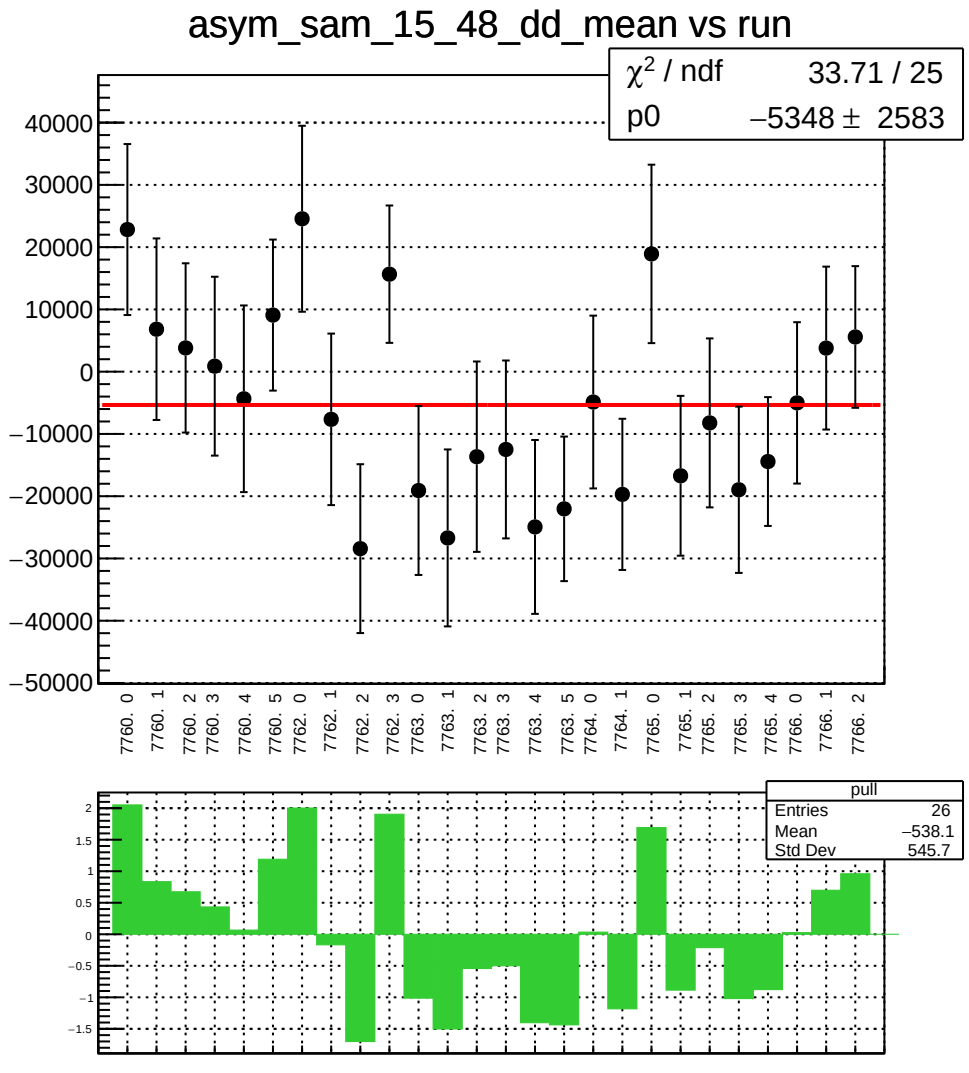

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 26.89 / 25
p0 −50.67 ± 153.8
3000
2000
1000
0
−1000
−2000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −4.342
Std Dev 16.44
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

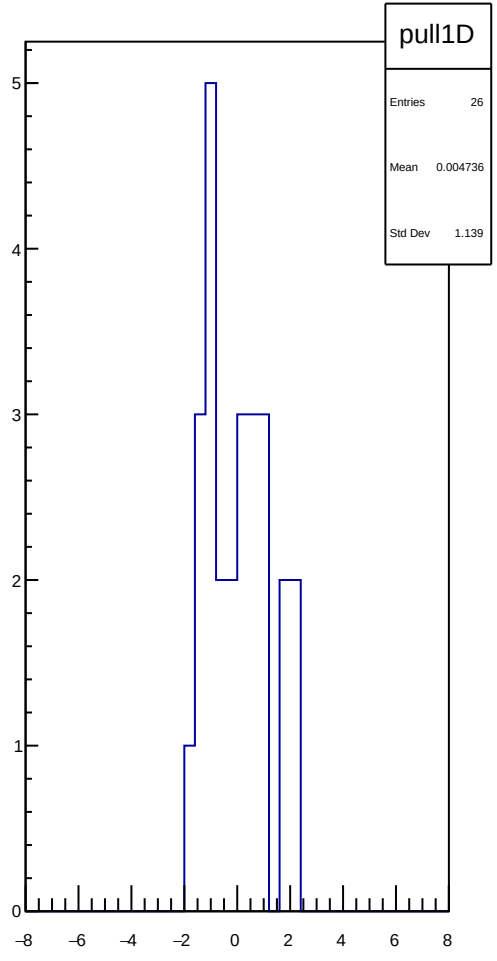

pull1D
Entries 26
Mean 0.02955
Std Dev 1.017
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

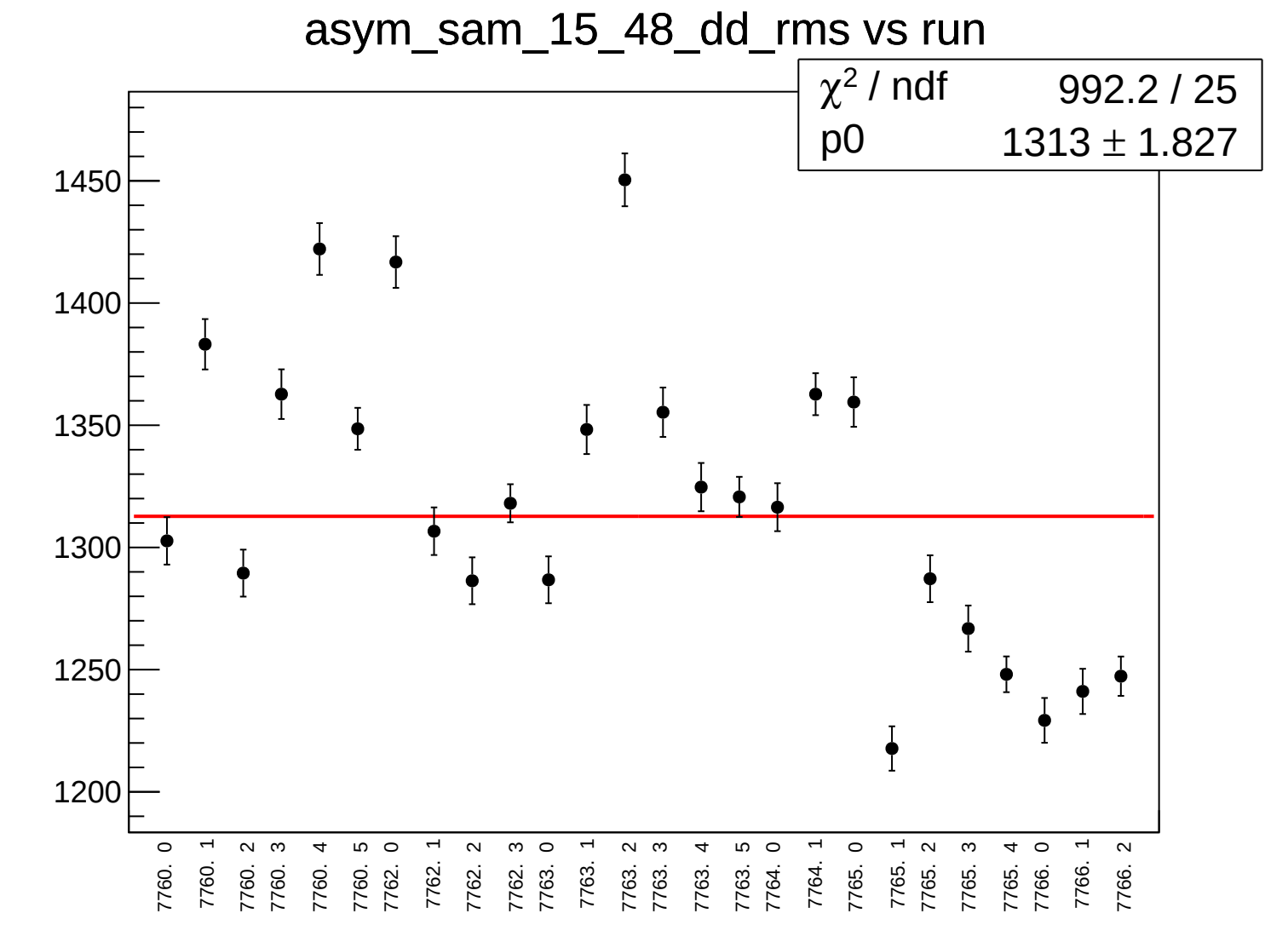

reg_asym_sam_15_48_dd_rms vs run
χ² / ndf 8757 / 25
p0 77.59 ± 0.1088
120
110
100
90
80
70
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

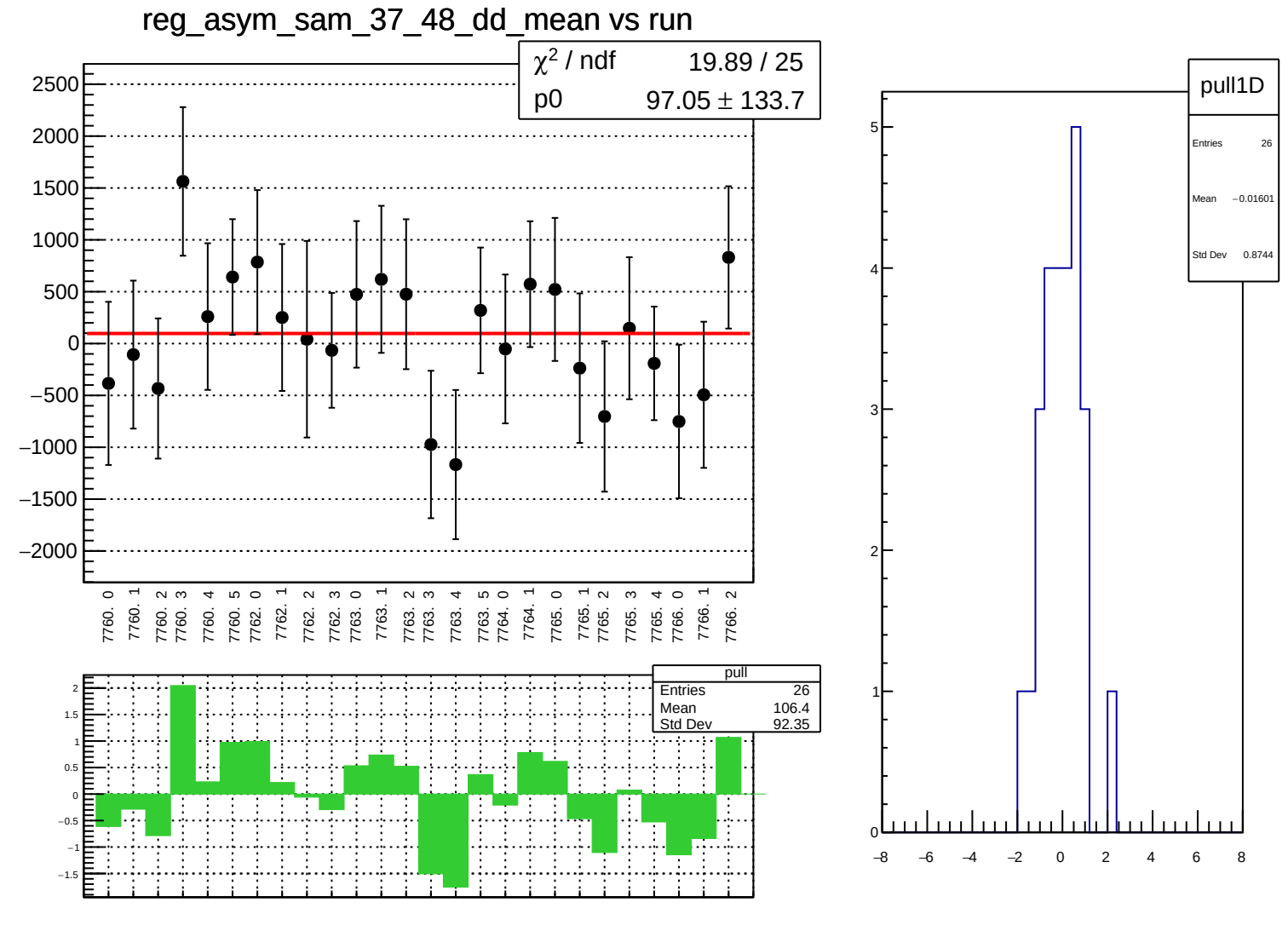

asym_sam_15_48_dd_correction_mean vs run
χ² / ndf 33.84 / 25
p0 5299 ± 2578
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −852.2
Std Dev 859.8
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 26
Mean −0.002969
Std Dev 1.141
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

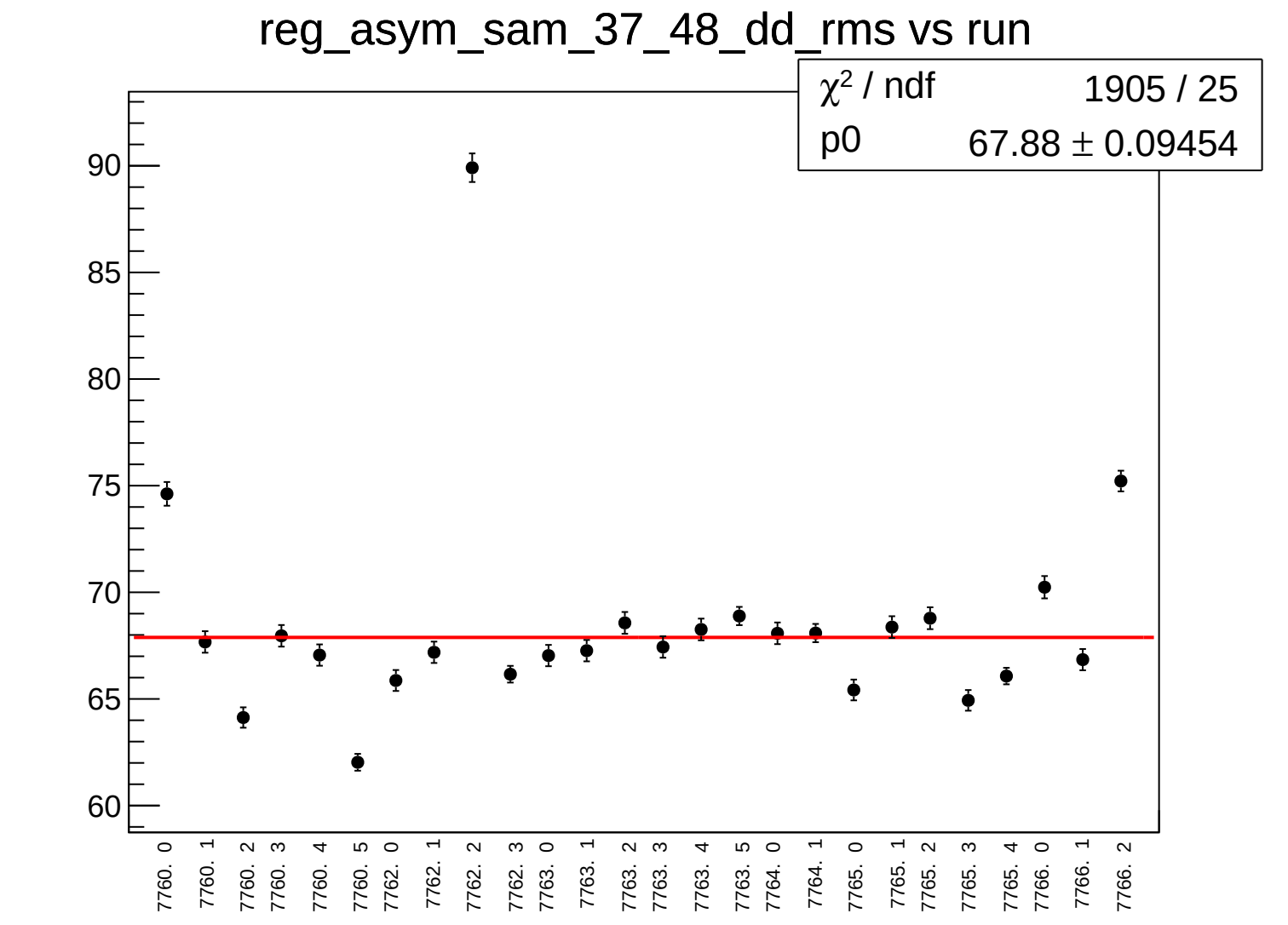

asym_sam_15_48_dd_correction_rms vs run
χ² / ndf 1009 / 25
p0 1310 ± 1.823
1450
1400
1350
1300
1250
1200
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

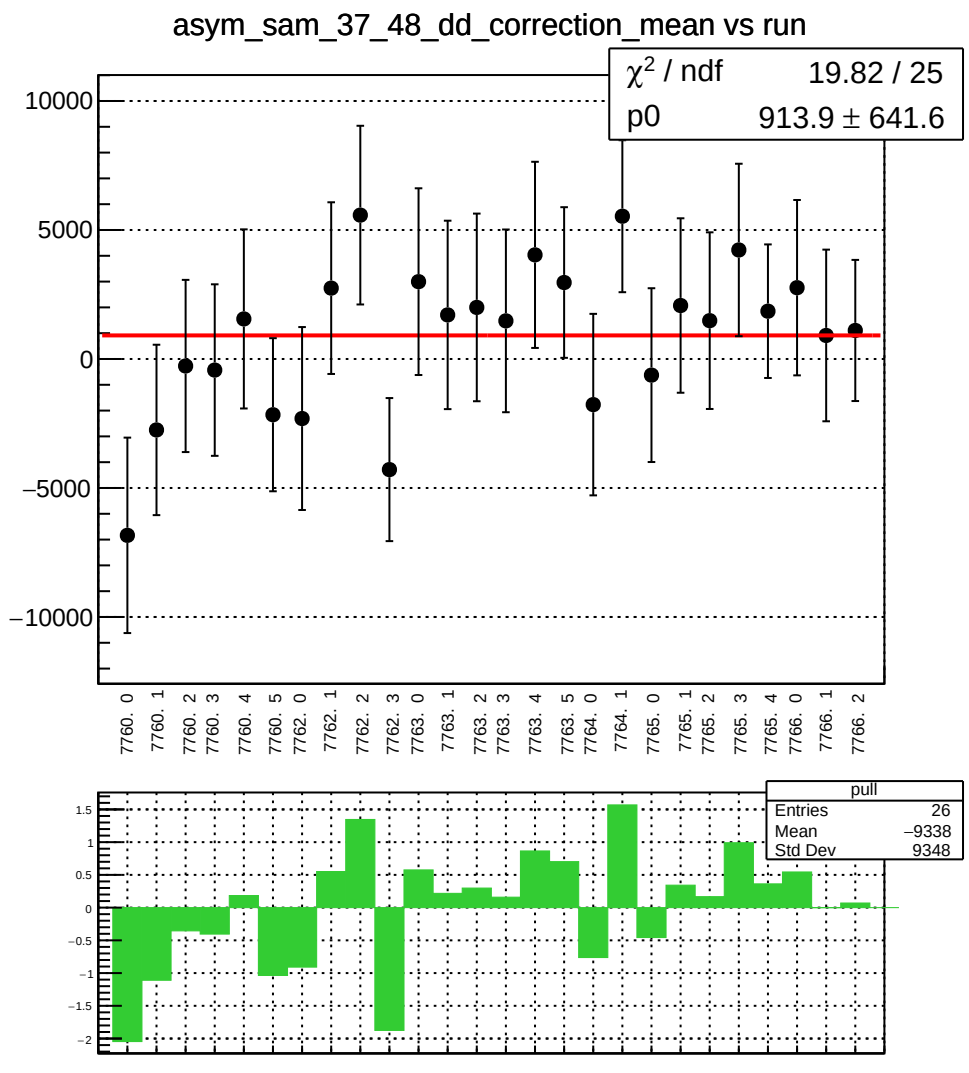

asym_sam_15_48_dd_mean vs run
χ² / ndf 33.71 / 25
p0 −5348 ± 2583
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −538.1
Std Dev 545.7
2
1.5
1
0.5
0
−0.5
−1
−1.5

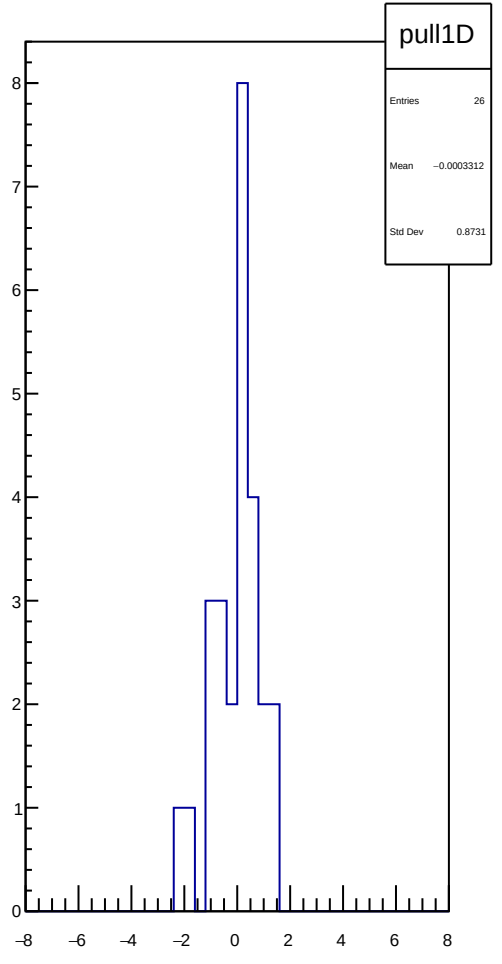

pull1D
Entries 26
Mean 0.004736
Std Dev 1.139
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

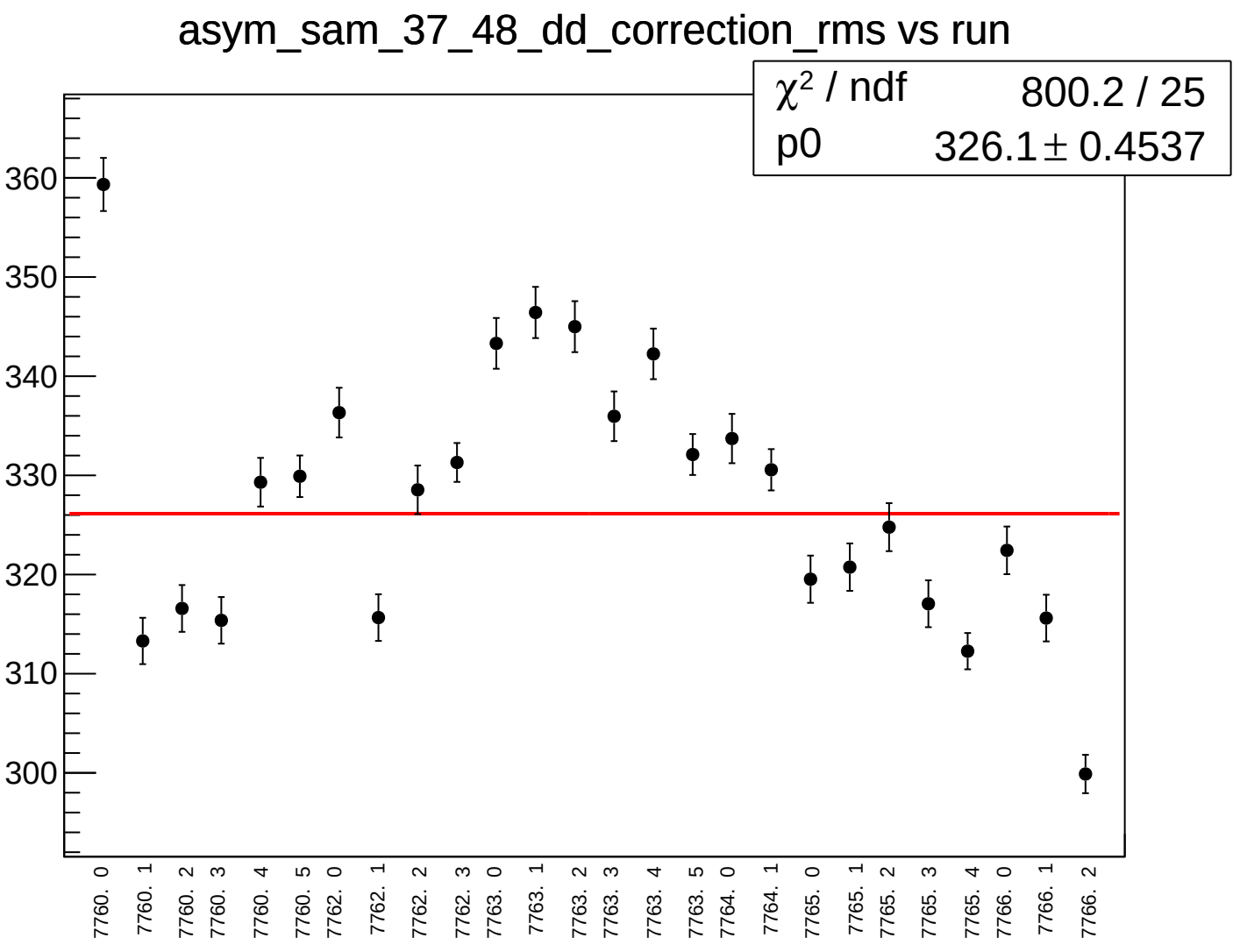

asym_sam_15_48_dd_rms vs run
χ² / ndf 992.2 / 25
p0 1313 ± 1.827
1450
1400
1350
1300
1250
1200
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

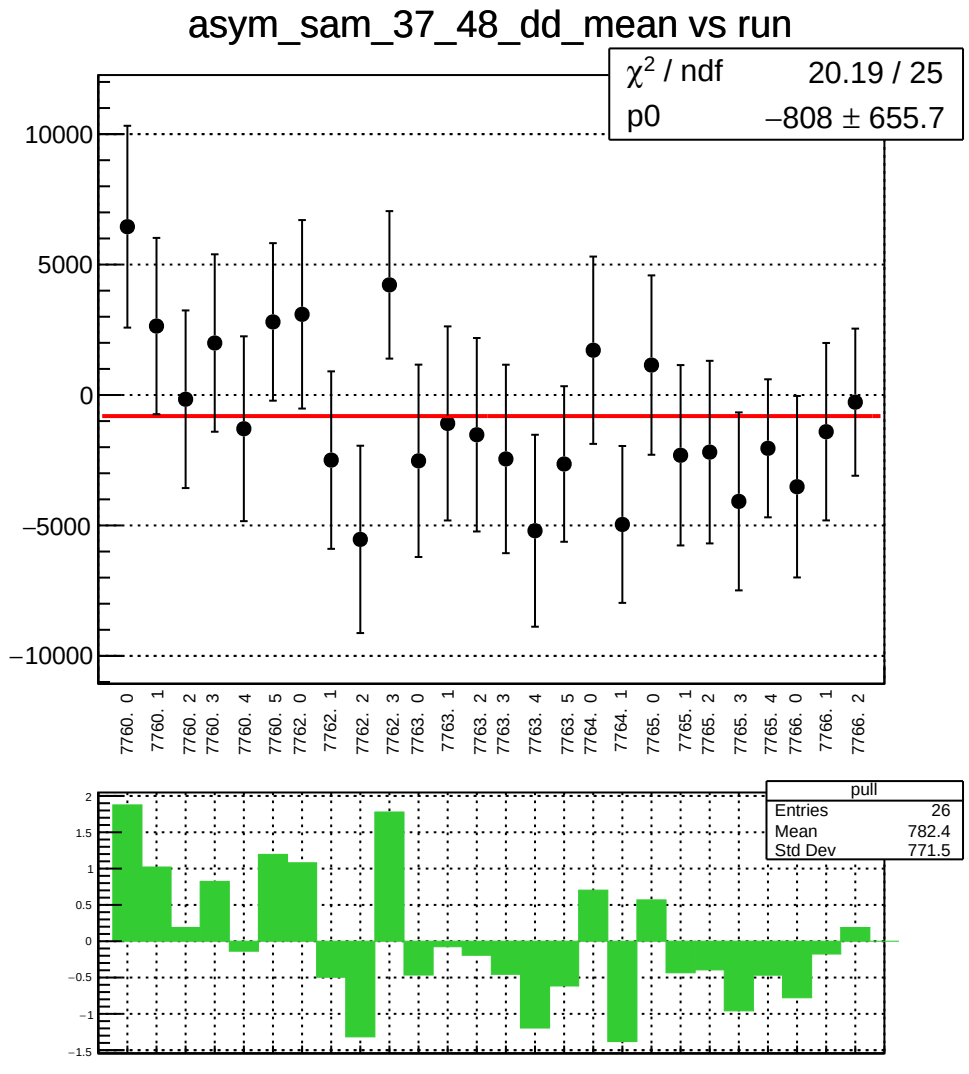

reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 19.89 / 25
p0 97.05 ± 133.7
2500
2000
1500
1000
500
0
−500
−1000
−1500
−2000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 106.4
Std Dev 92.35
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 26
Mean −0.01601
Std Dev 0.8744
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

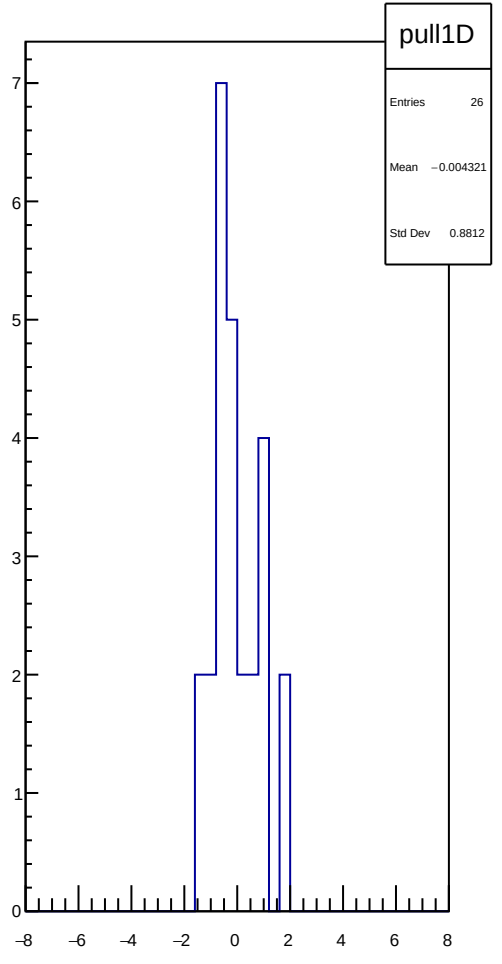

reg_asym_sam_37_48_dd_rms vs run
χ² / ndf 1905 / 25
p0 67.88 ± 0.09454
90
85
80
75
70
65
60
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

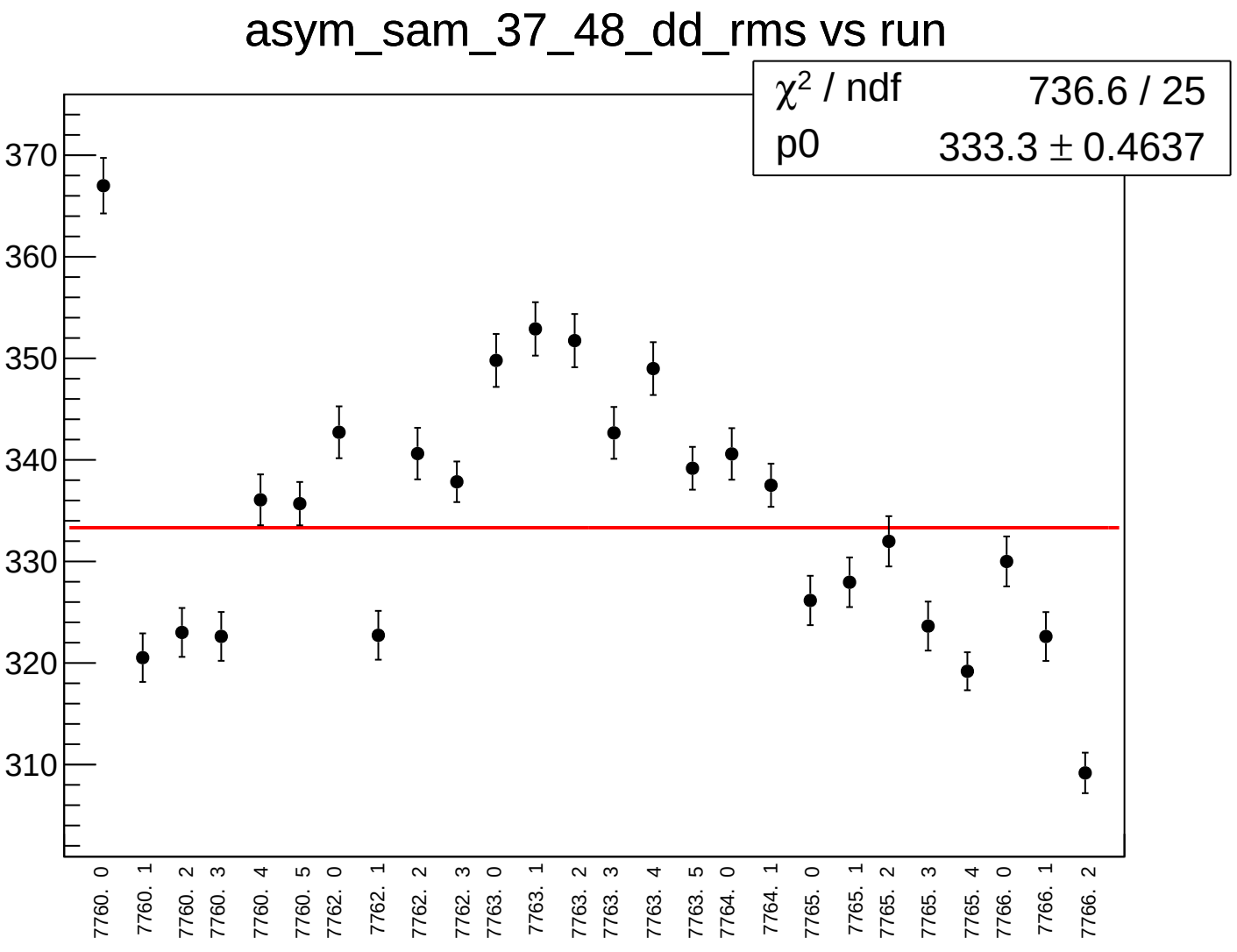

asym_sam_37_48_dd_correction_mean vs run
χ² / ndf 19.82 / 25
p0 913.9 ± 641.6
10000
5000
0
−5000
−10000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −9338
Std Dev 9348
1.5
1
0.5
0
−0.5
−1
−1.5
−2

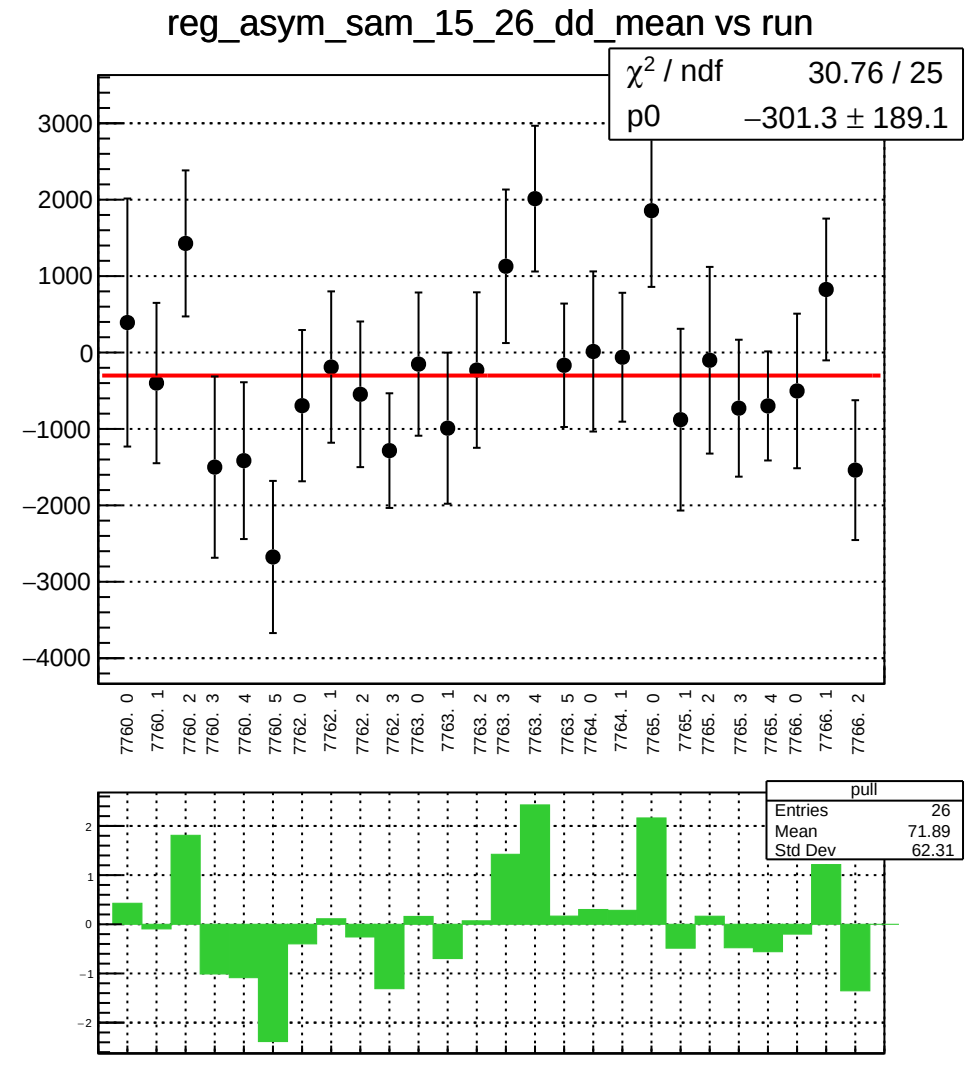

pull1D
Entries 26
Mean −0.0003312
Std Dev 0.8731
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

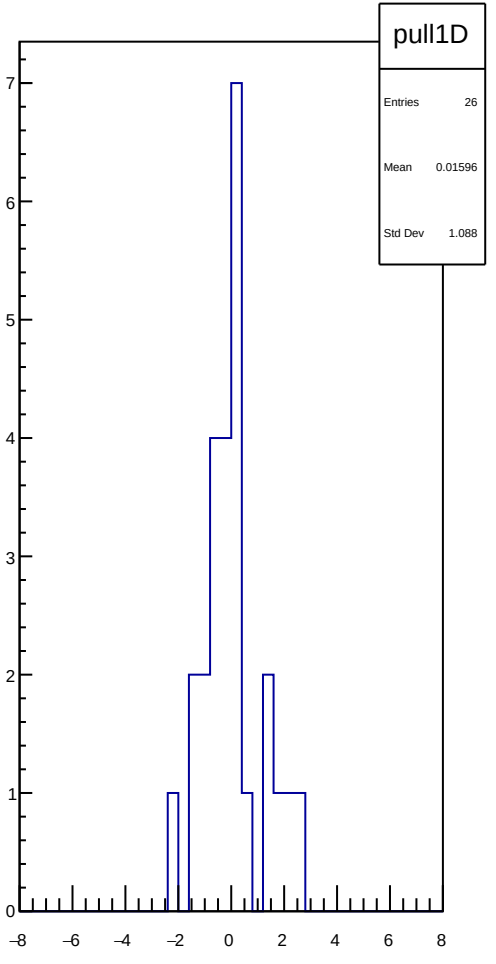

asym_sam_37_48_dd_correction_rms vs run
χ² / ndf 800.2 / 25
p0 326.1 ± 0.4537
360
350
340
330
320
310
300
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

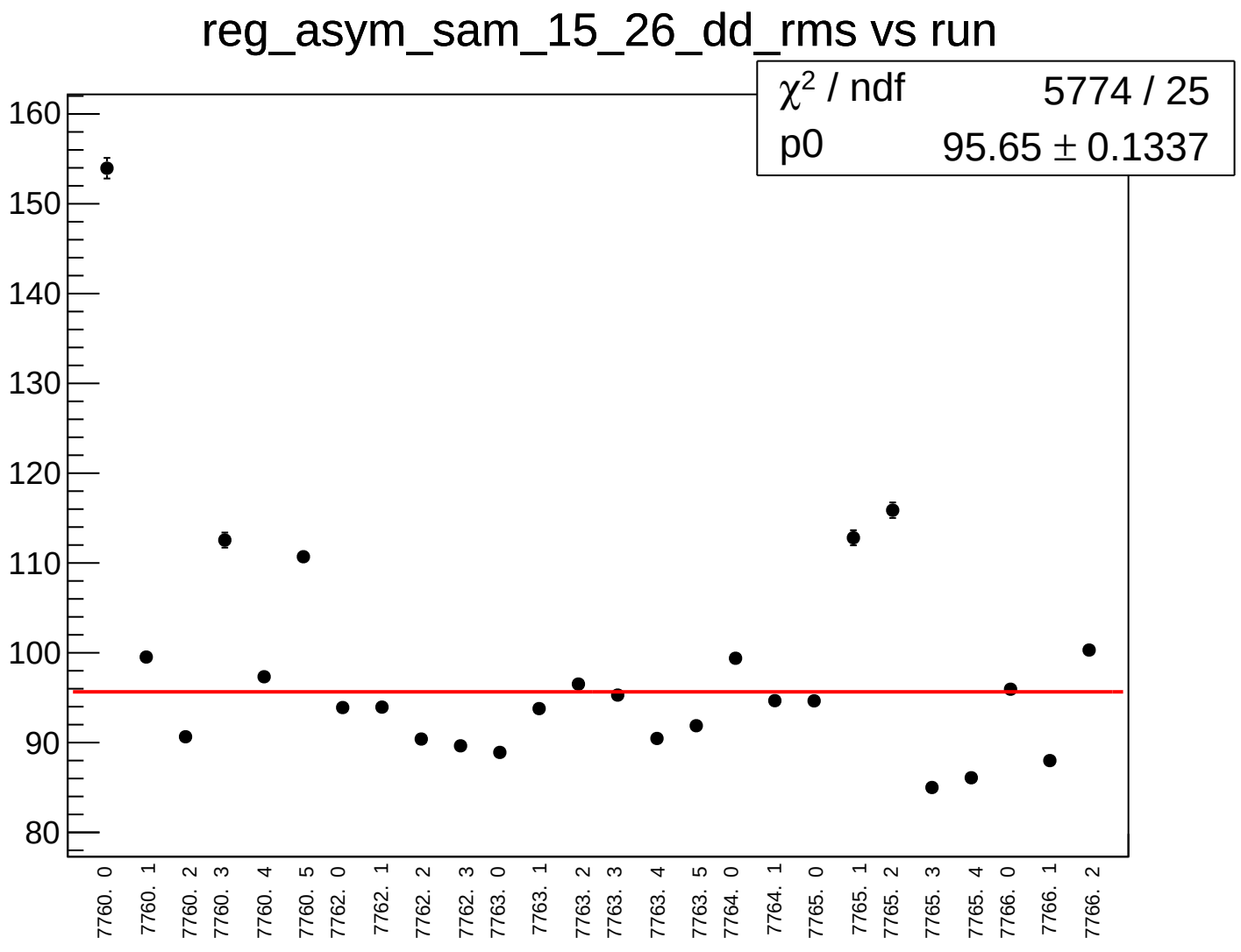

asym_sam_37_48_dd_mean vs run
χ² / ndf 20.19 / 25
p0 −808 ± 655.7
10000
5000
0
−5000
−10000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 782.4
Std Dev 771.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

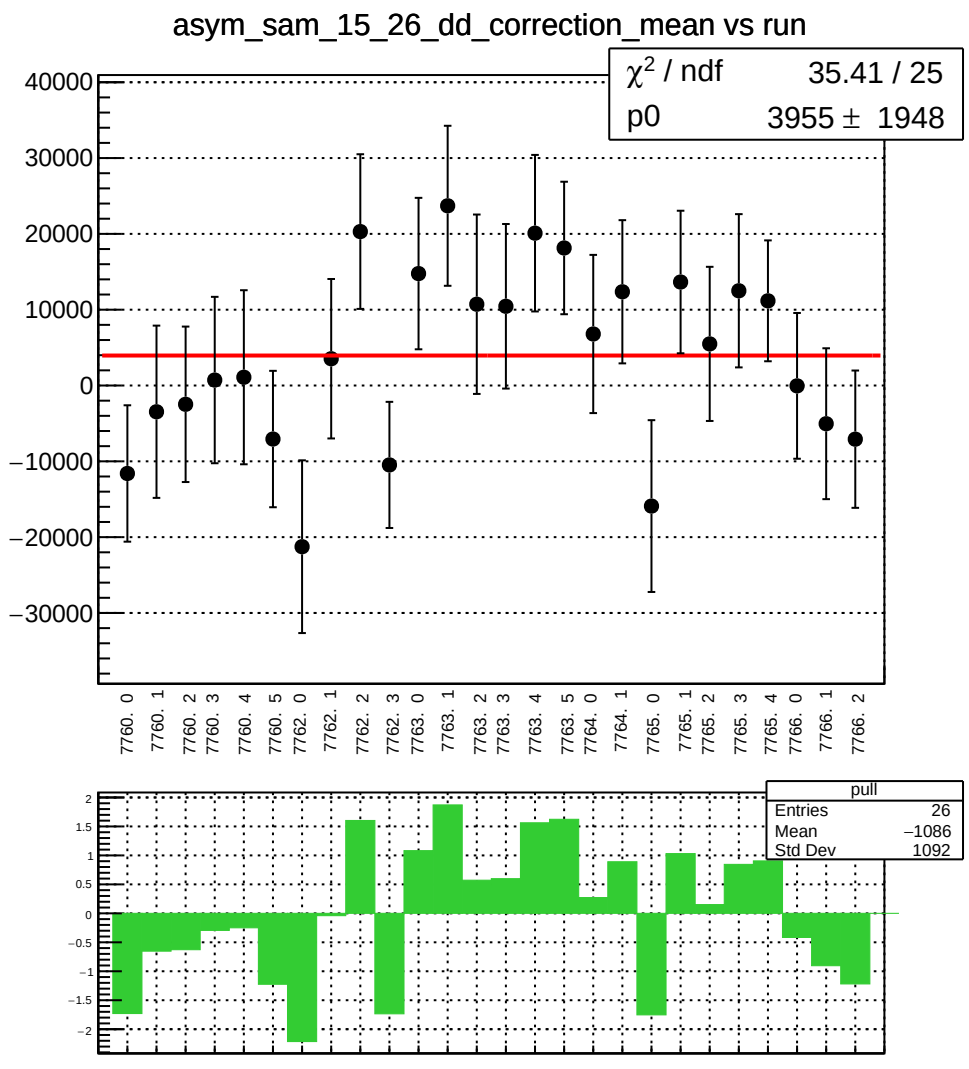

pull1D
Entries 26
Mean −0.004321
Std Dev 0.8812
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

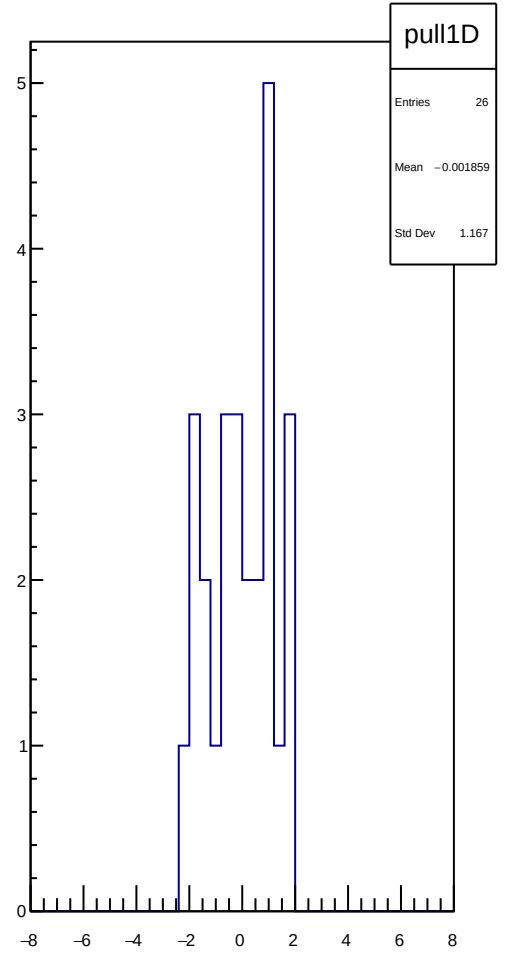

asym_sam_37_48_dd_rms vs run
χ² / ndf 736.6 / 25
p0 333.3 ± 0.4637
370
360
350
340
330
320
310
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

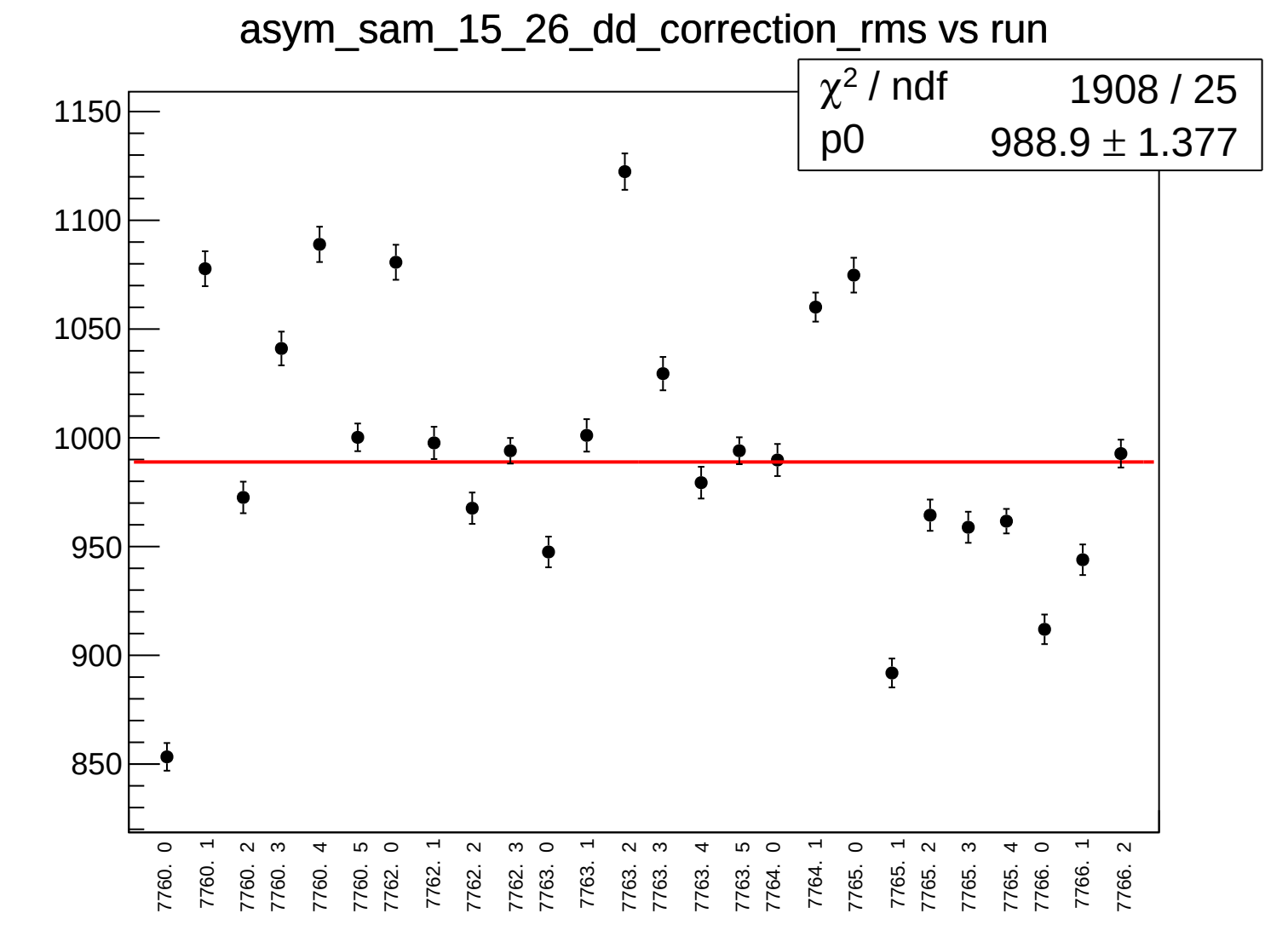

reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 30.76 / 25
p0 −301.3 ± 189.1
3000
2000
1000
0
−1000
−2000
−3000
−4000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 71.89
Std Dev 62.31
2
1
0
−1
−2

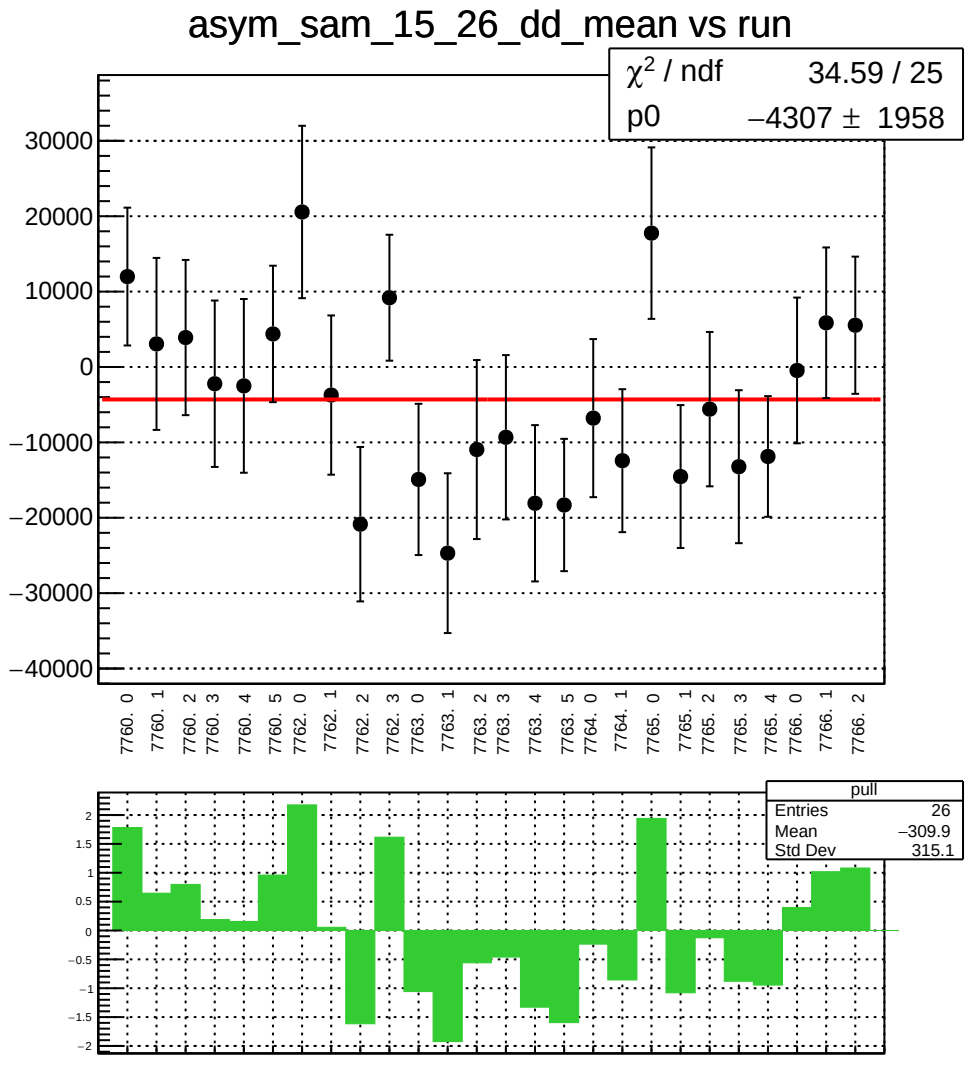

pull1D
Entries 26
Mean 0.01596
Std Dev 1.088
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

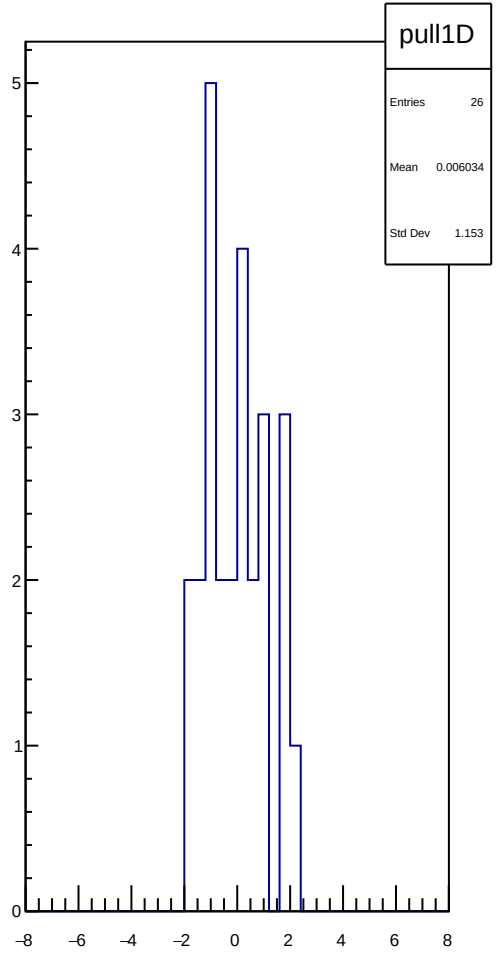

reg_asym_sam_15_26_dd_rms vs run
χ² / ndf 5774 / 25
p0 95.65 ± 0.1337
160
150
140
130
120
110
100
90
80
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

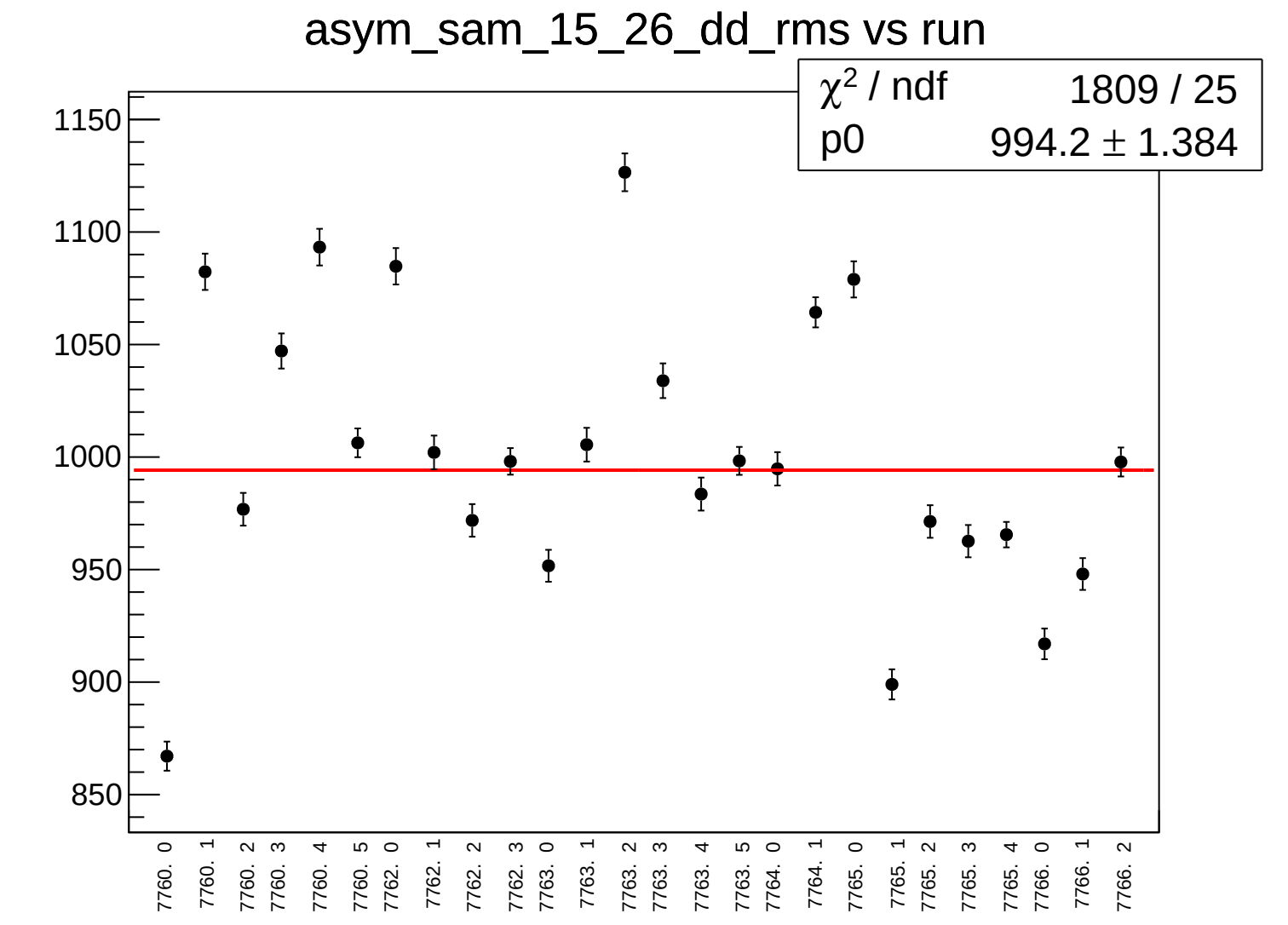

asym_sam_15_26_dd_correction_mean vs run
χ² / ndf 35.41 / 25
p0 3955 ± 1948
40000
30000
20000
10000
0
−10000
−20000
−30000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −1086
Std Dev 1092
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

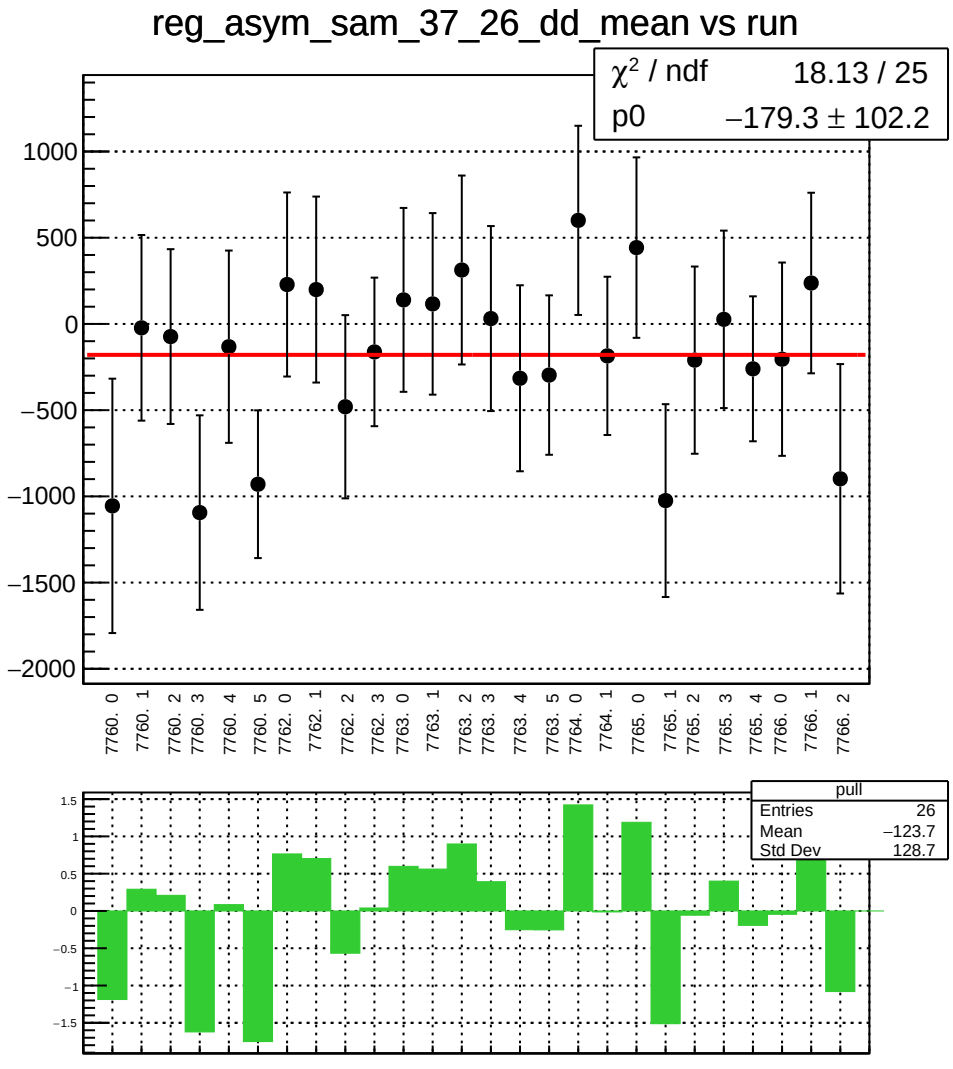

pull1D
Entries 26
Mean −0.001859
Std Dev 1.167
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

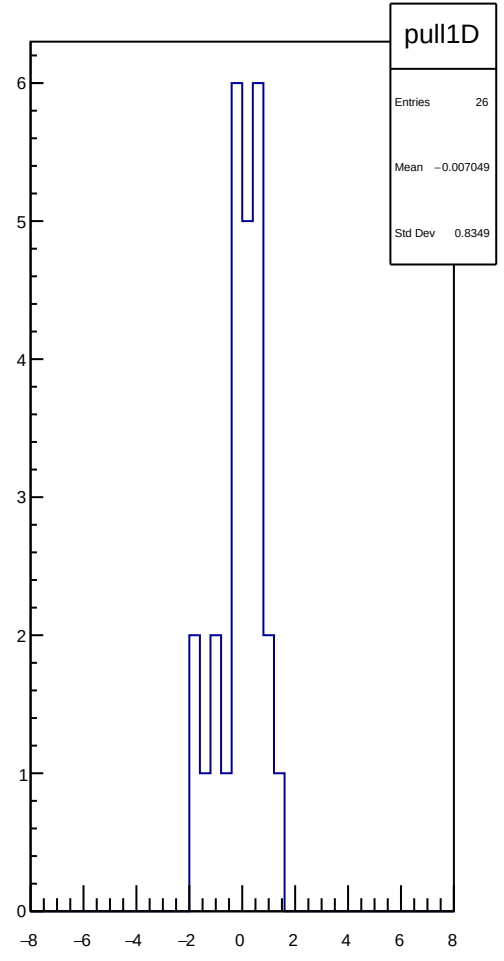

asym_sam_15_26_dd_correction_rms vs run
χ² / ndf 1908 / 25
p0 988.9 ± 1.377
1150
1100
1050
1000
950
900
850
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

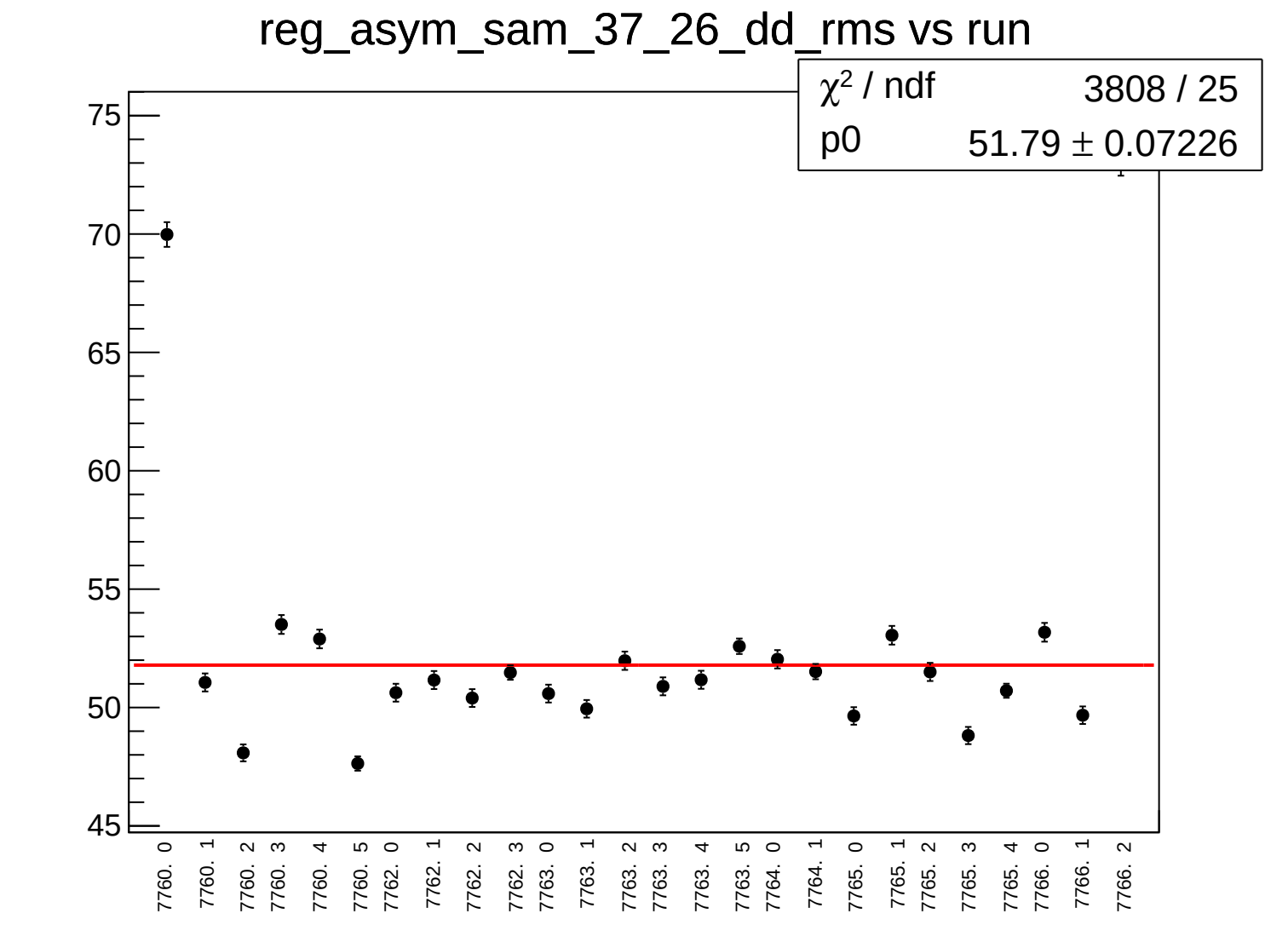

asym_sam_15_26_dd_mean vs run
χ² / ndf 34.59 / 25
p0 −4307 ± 1958
30000
20000
10000
0
−10000
−20000
−30000
−40000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −309.9
Std Dev 315.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

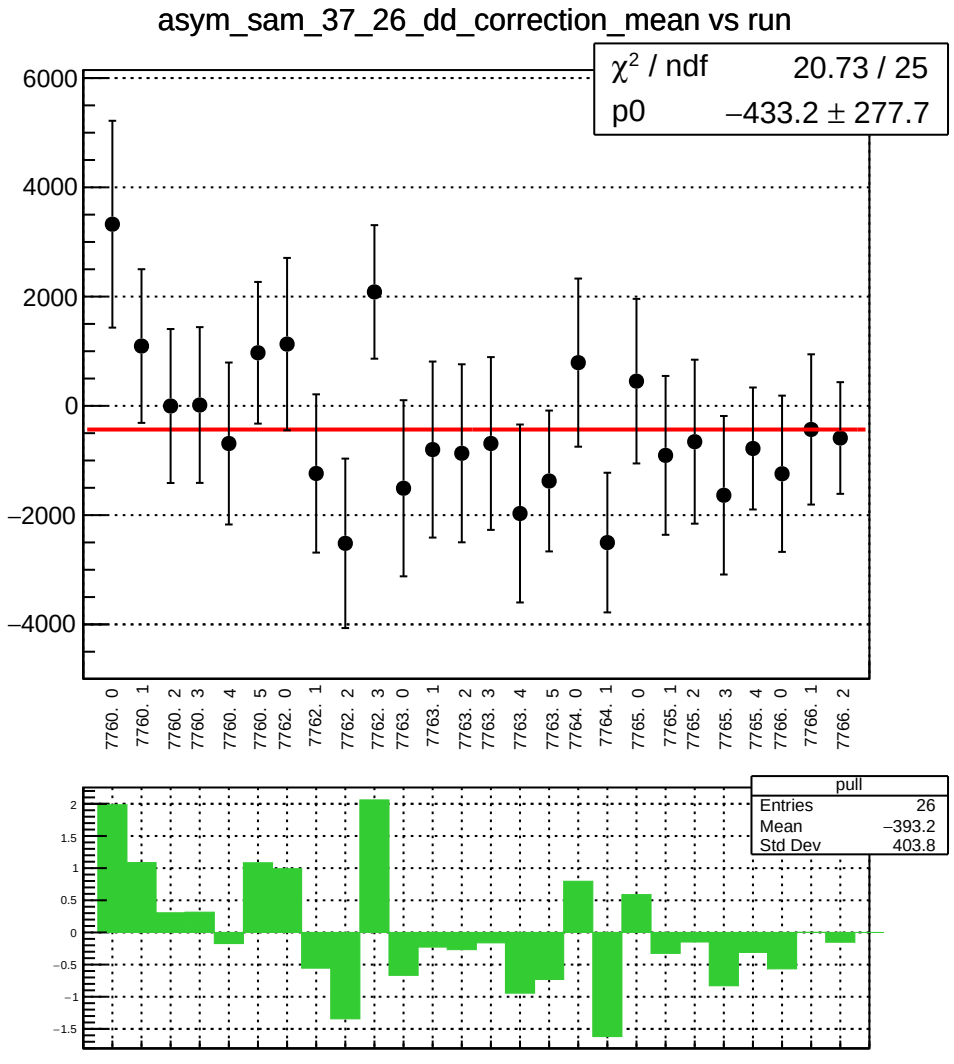

pull1D
Entries 26
Mean 0.006034
Std Dev 1.153
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

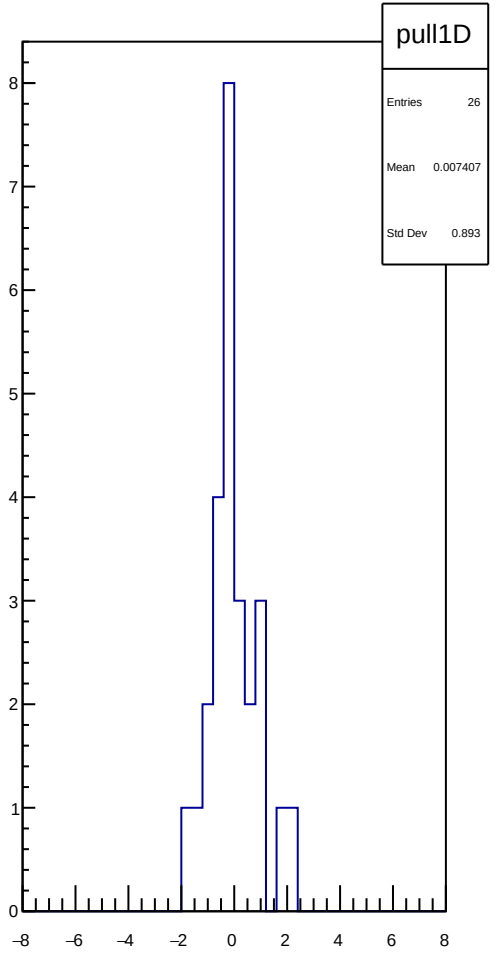

asym_sam_15_26_dd_rms vs run
χ² / ndf 1809 / 25
p0 994.2 ± 1.384
1150
1100
1050
1000
950
900
850
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

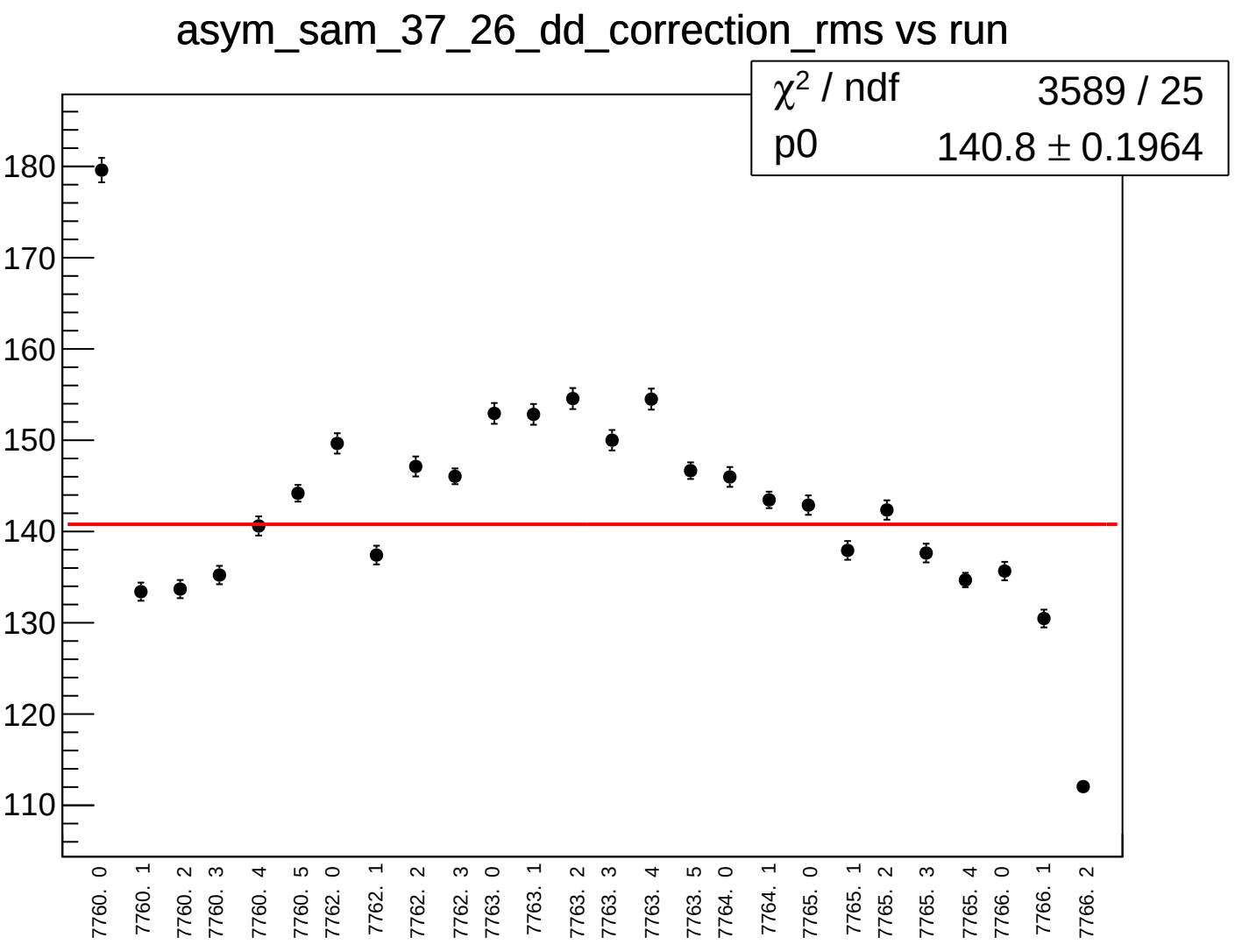

reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 18.13 / 25
p0 −179.3 ± 102.2
1000
500
0
−500
−1000
−1500
−2000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −123.7
Std Dev 128.7
1.5
1
0.5
0
−0.5
−1
−1.5

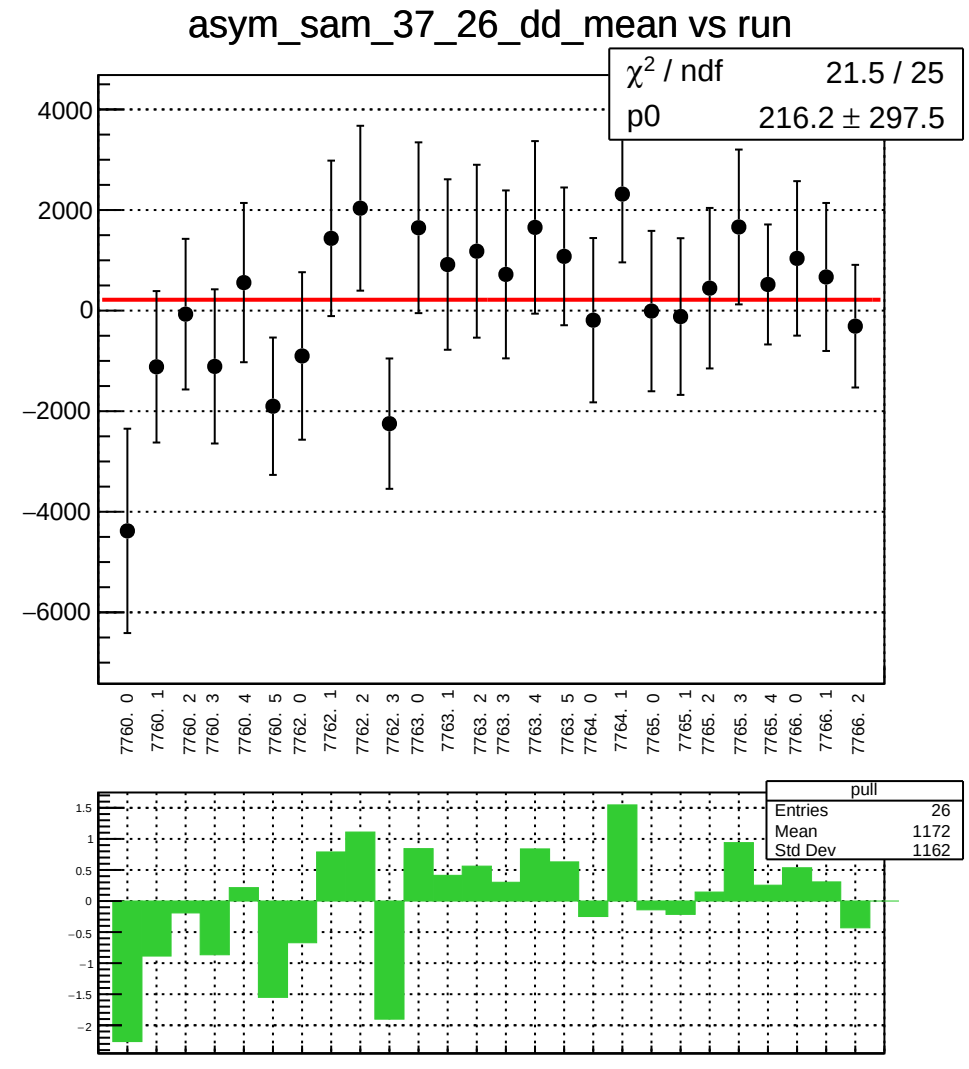

pull1D
Entries 26
Mean −0.007049
Std Dev 0.8349
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

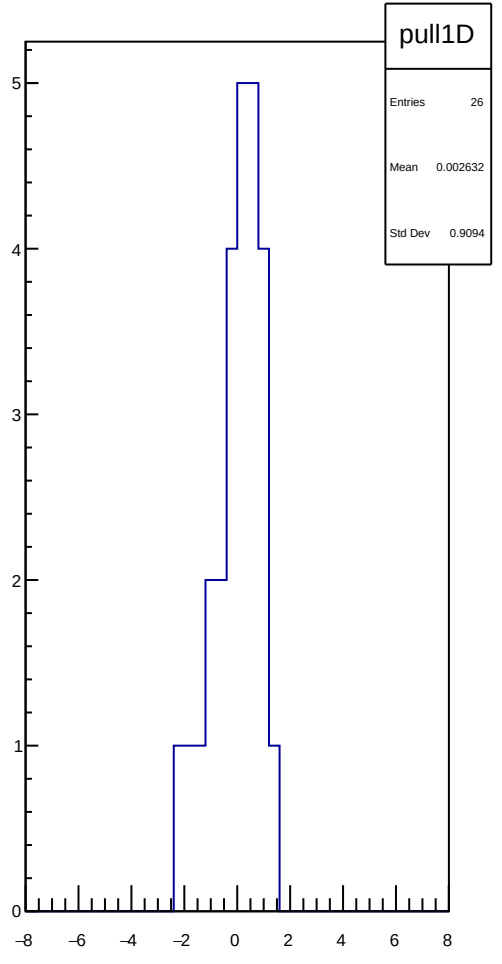

reg_asym_sam_37_26_dd_rms vs run
χ² / ndf 3808 / 25
p0 51.79 ± 0.07226
75
70
65
60
55
50
45
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

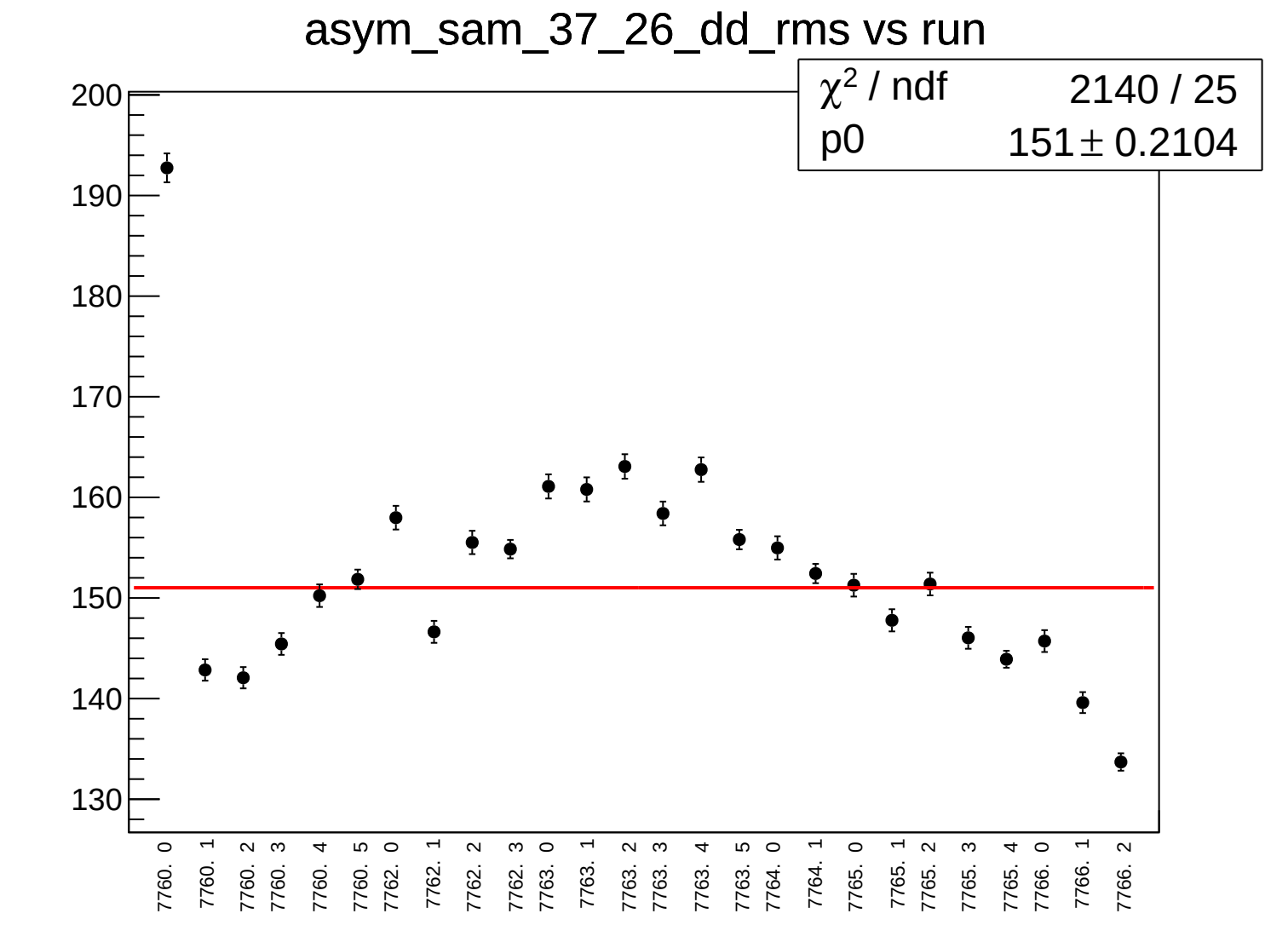

asym_sam_37_26_dd_correction_mean vs run
χ² / ndf 20.73 / 25
p0 −433.2 ± 277.7
6000
4000
2000
0
−2000
−4000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −393.2
Std Dev 403.8
2
1.5
1
0.5
0
−0.5
−1
−1.5

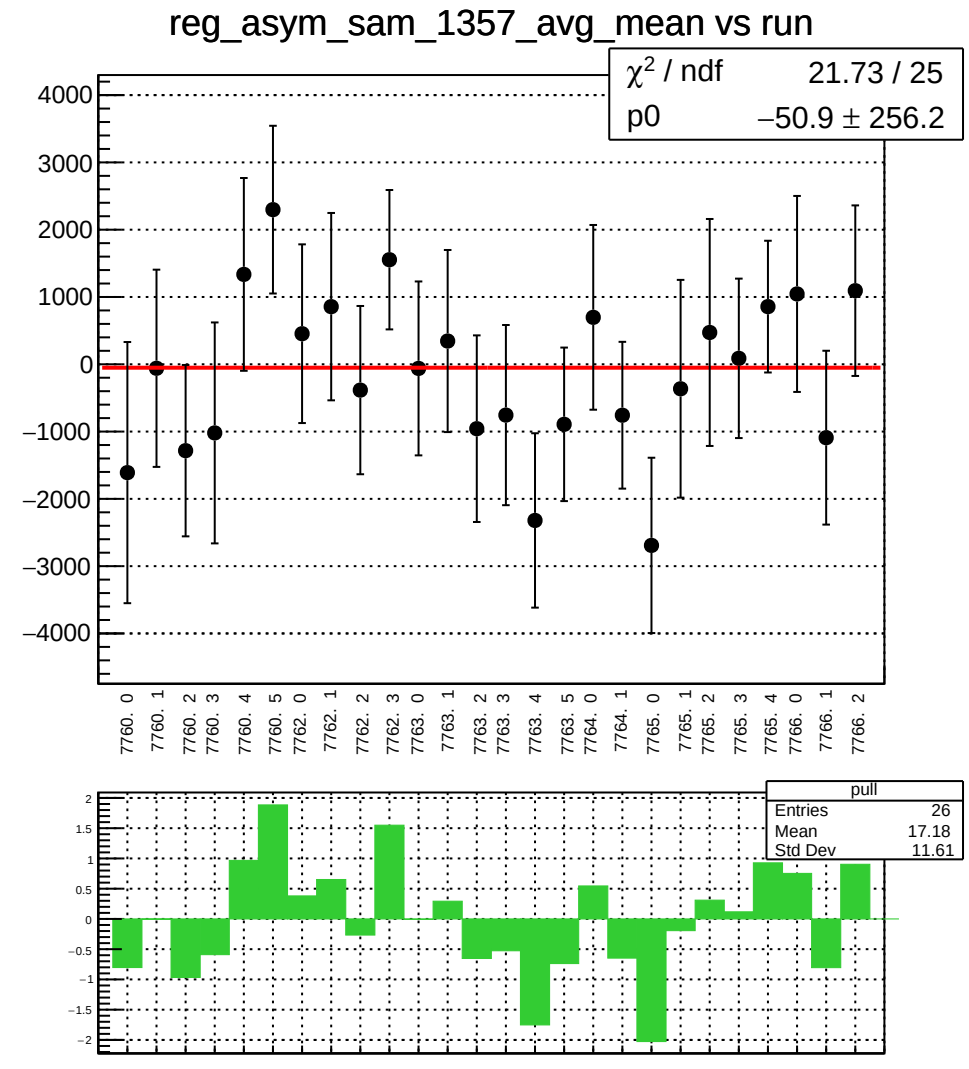

pull1D
Entries 26
Mean 0.007407
Std Dev 0.893
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

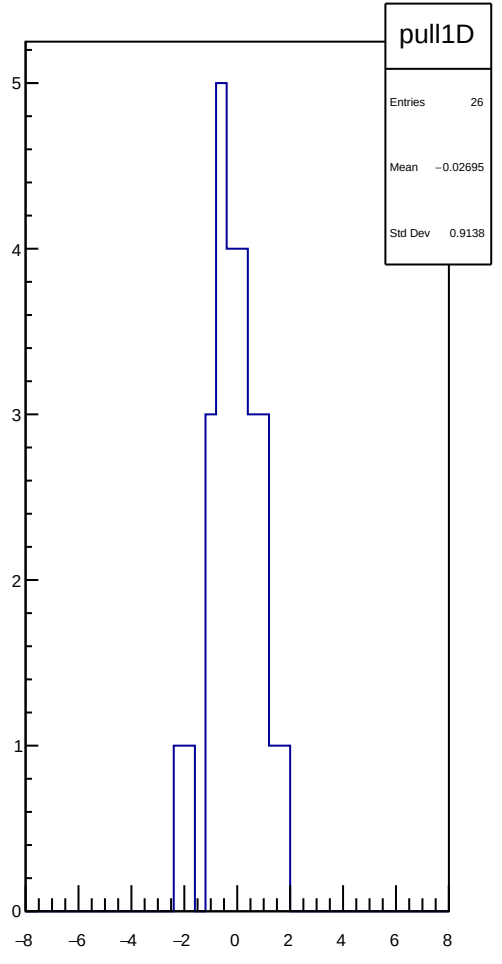

asym_sam_37_26_dd_correction_rms vs run
χ² / ndf 3589 / 25
p0 140.8 ± 0.1964
180
170
160
150
140
130
120
110
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

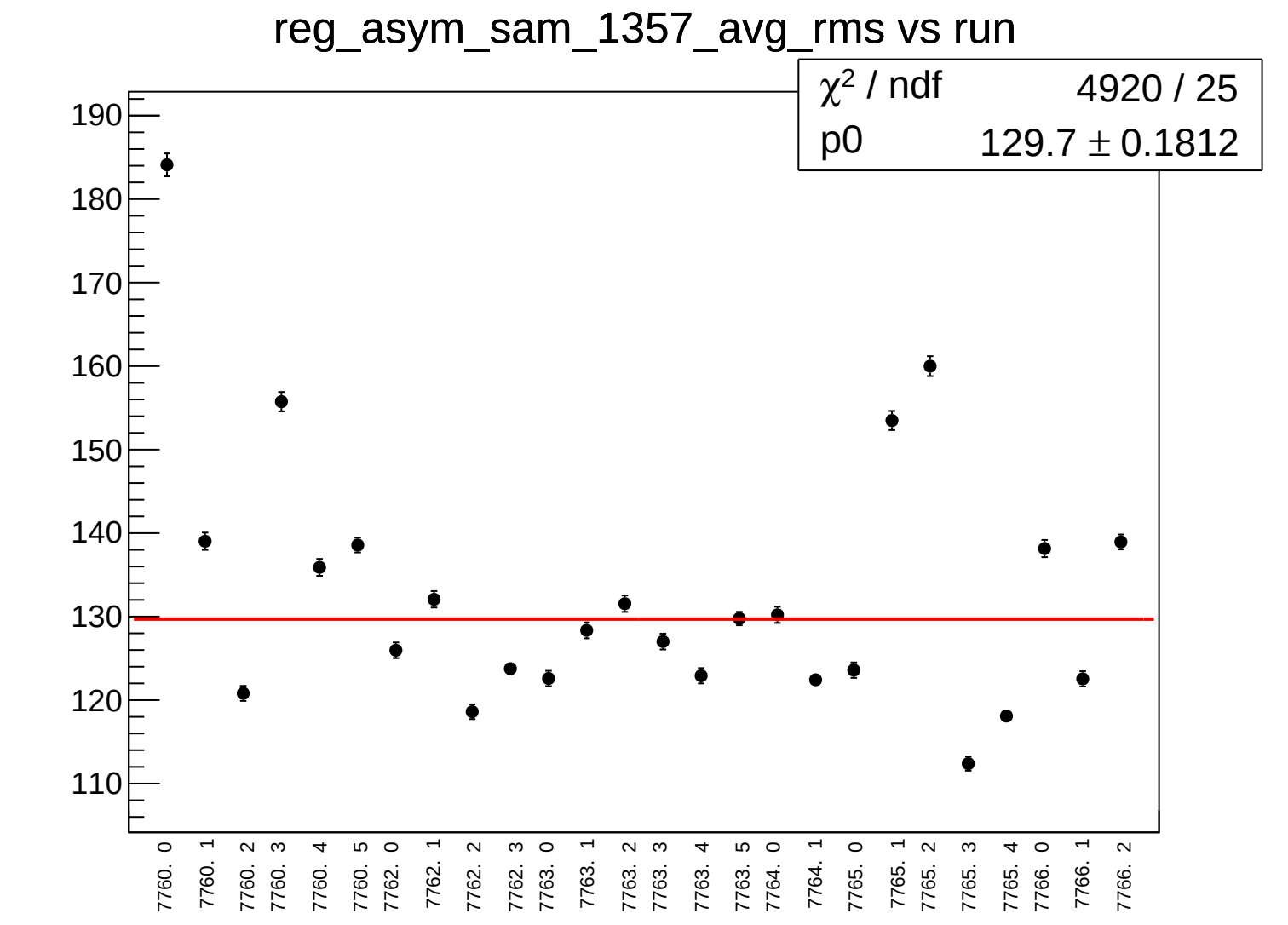

asym_sam_37_26_dd_mean vs run
χ² / ndf 21.5 / 25
p0 216.2 ± 297.5
4000
2000
0
−2000
−4000
−6000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 1172
Std Dev 1162
1.5
1
0.5
0
−0.5
−1
−1.5
−2

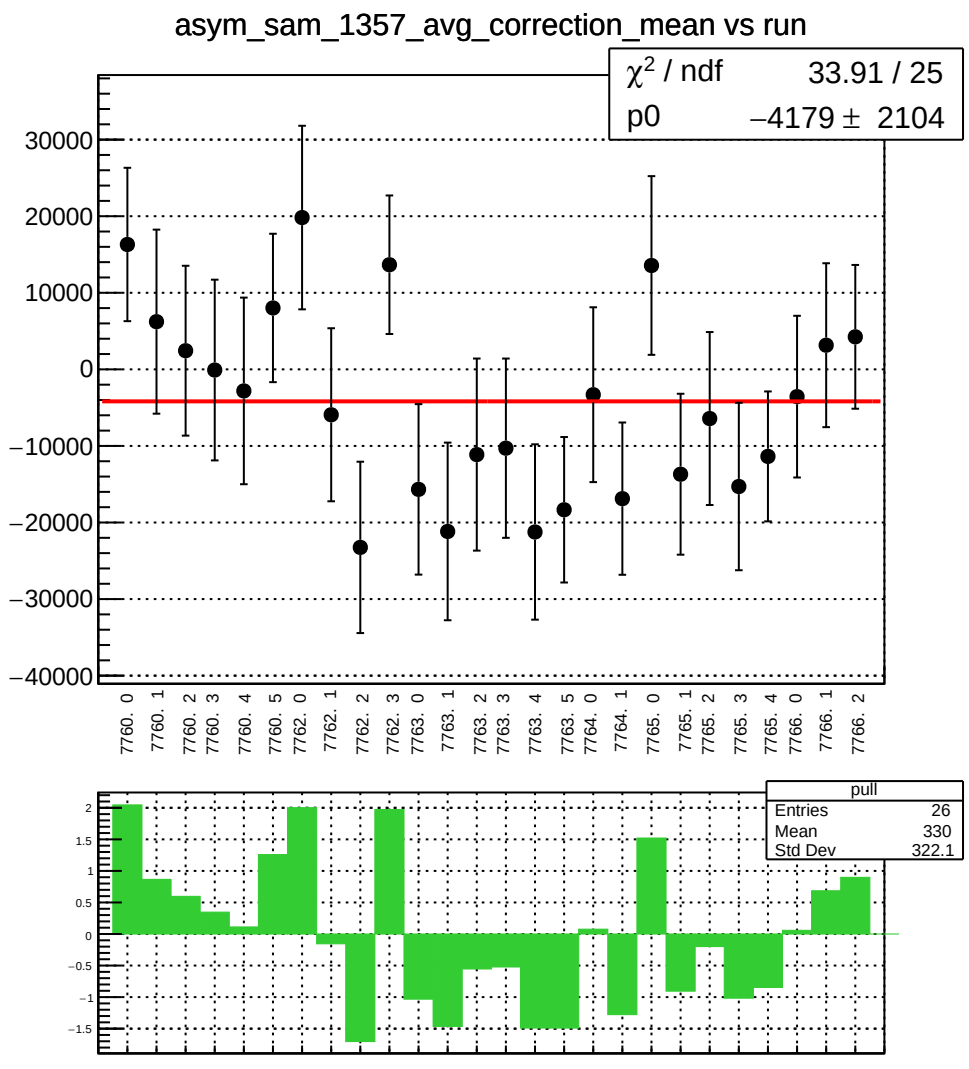

pull1D
Entries 26
Mean 0.002632
Std Dev 0.9094
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

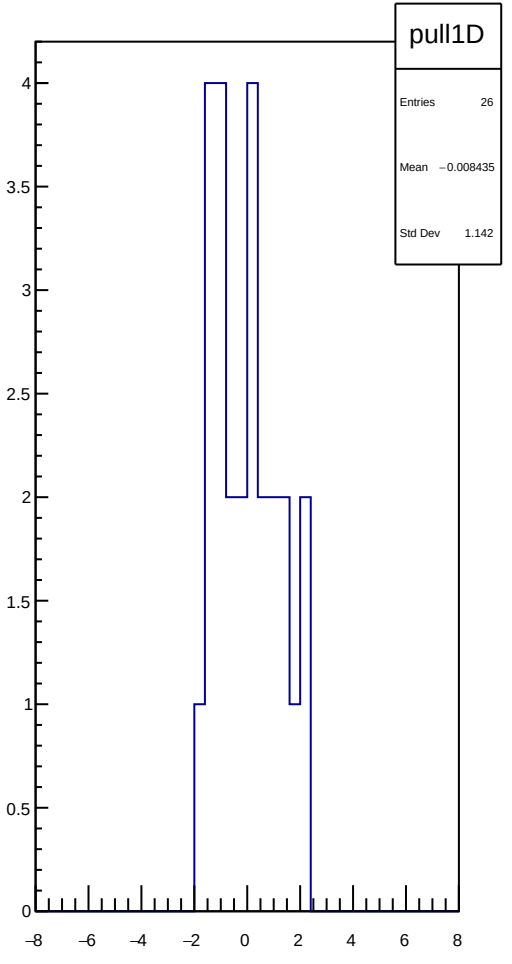

asym_sam_37_26_dd_rms vs run
χ² / ndf 2140 / 25
p0 151 ± 0.2104
200
190
180
170
160
150
140
130
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

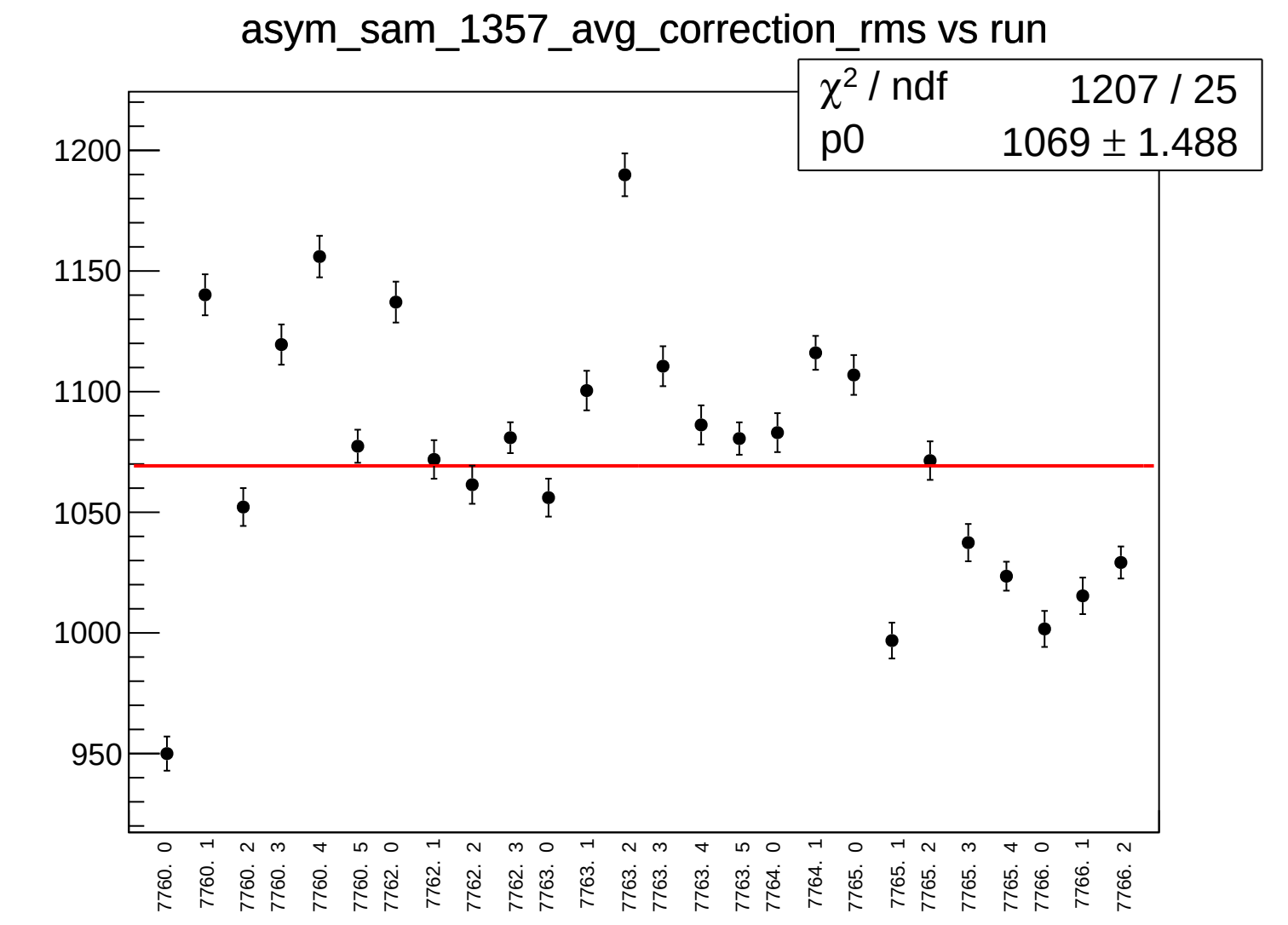

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 21.73 / 25
p0 −50.9 ± 256.2
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 17.18
Std Dev 11.61
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

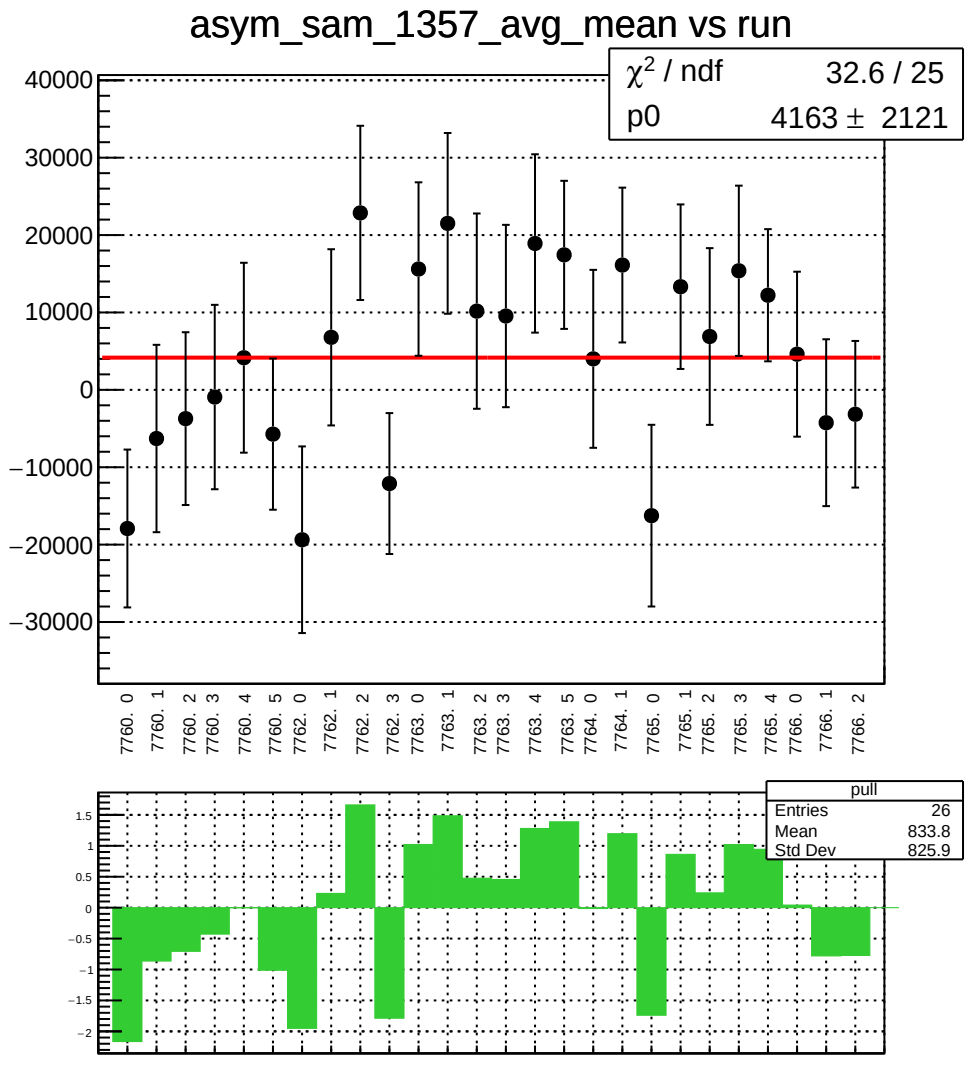

pull1D
Entries 26
Mean −0.02695
Std Dev 0.9138
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

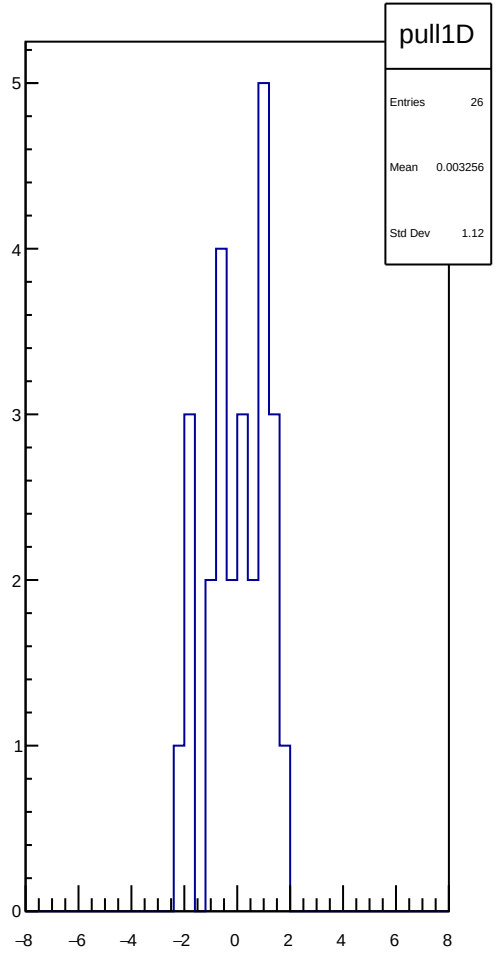

reg_asym_sam_1357_avg_rms vs run
χ² / ndf 4920 / 25
p0 129.7 ± 0.1812
190
180
170
160
150
140
130
120
110
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

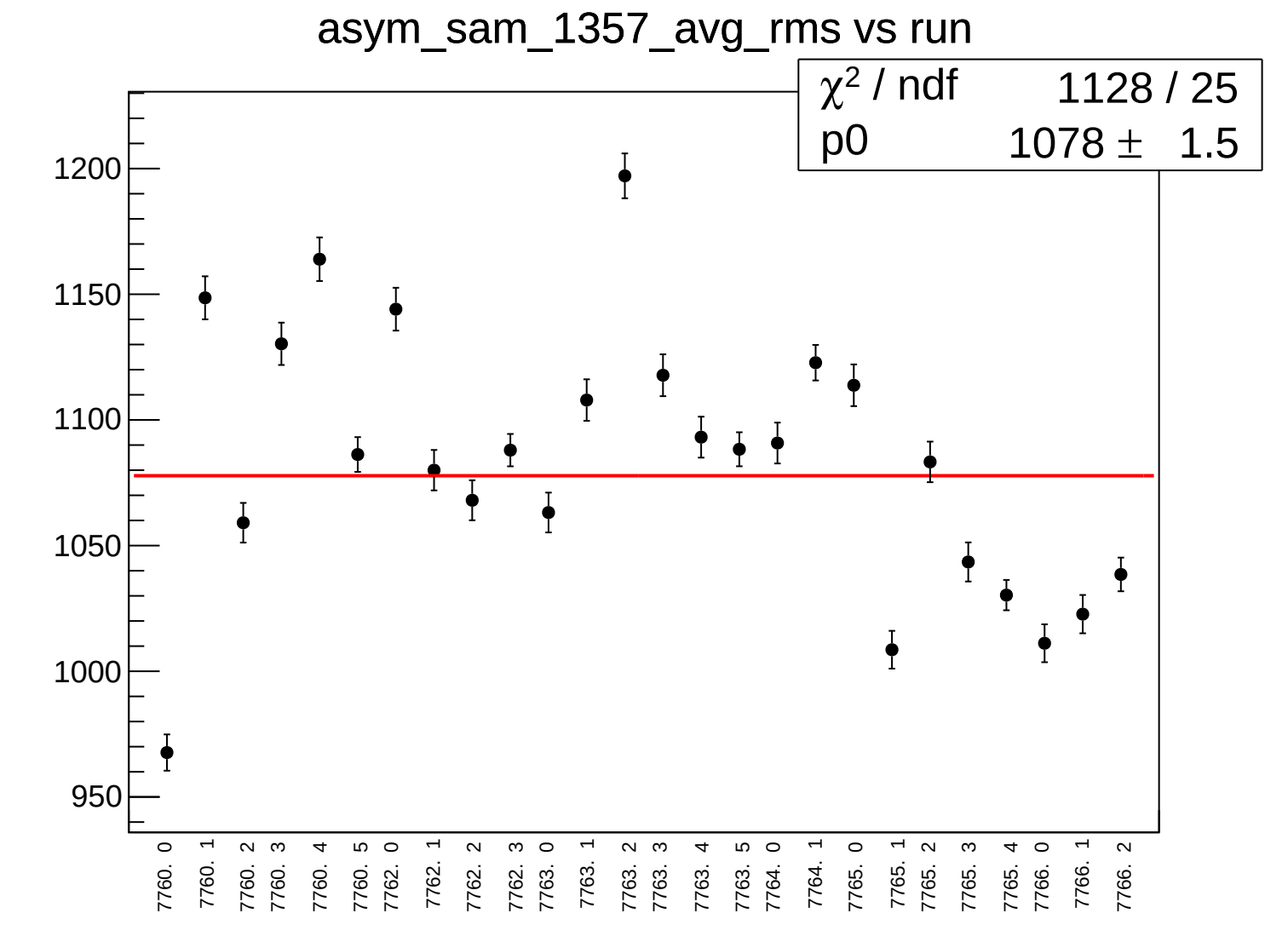

asym_sam_1357_avg_correction_mean vs run
χ² / ndf 33.91 / 25
p0 −4179 ± 2104
30000
20000
10000
0
−10000
−20000
−30000
−40000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 330
Std Dev 322.1
2
1.5
1
0.5
0
−0.5
−1
−1.5

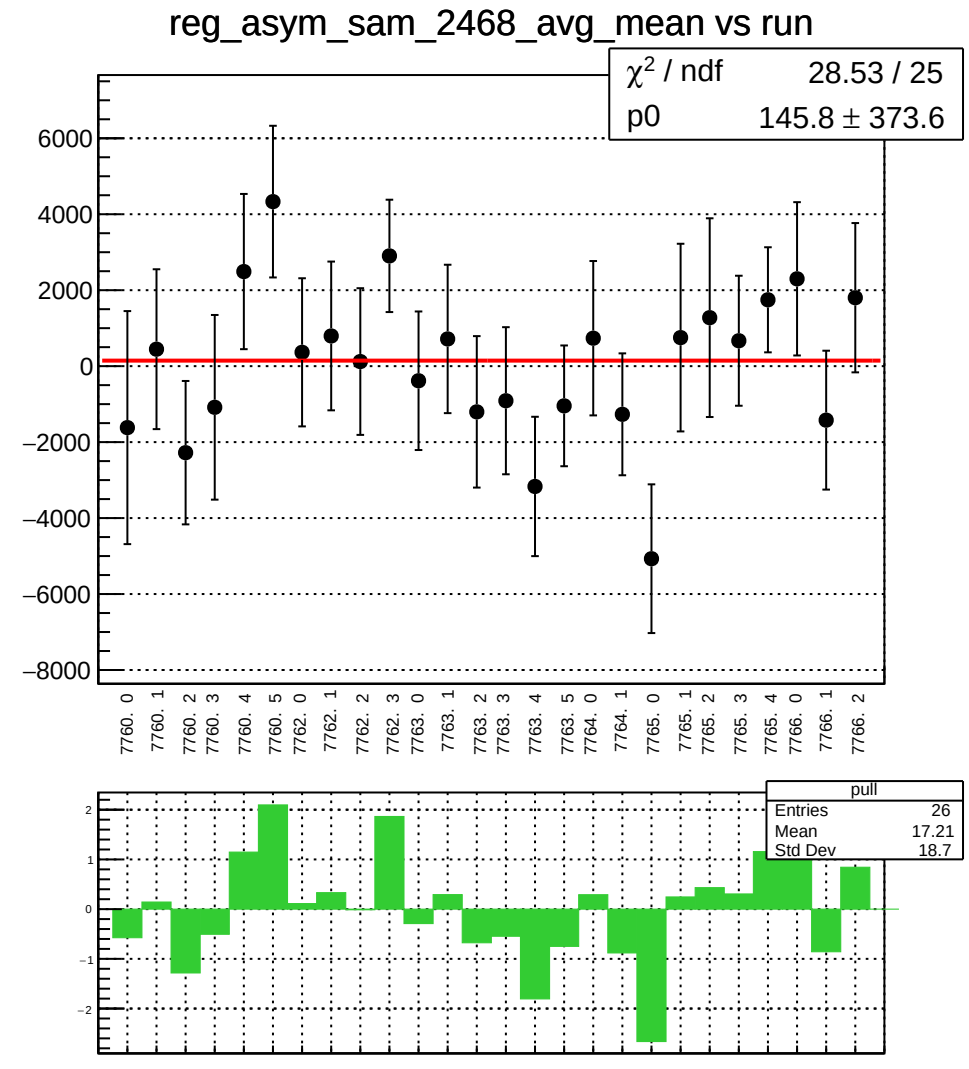

pull1D
Entries 26
Mean −0.008435
Std Dev 1.142
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

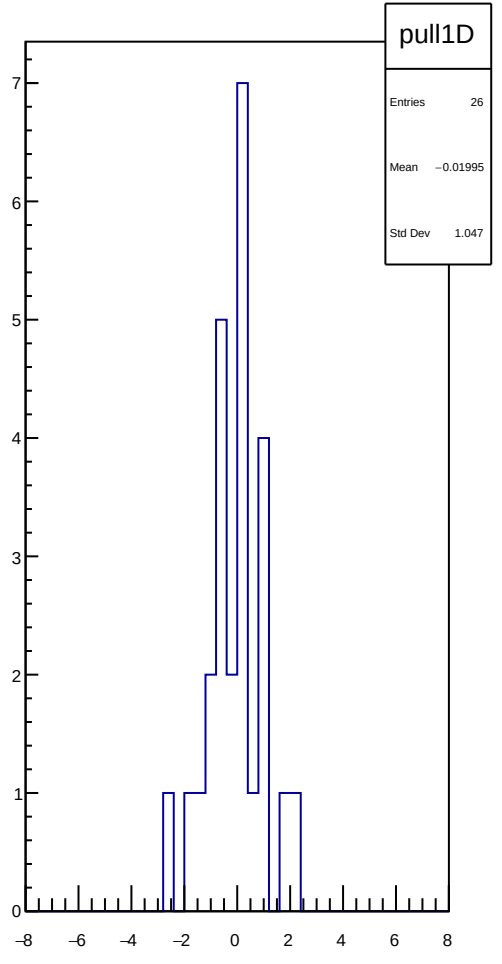

asym_sam_1357_avg_correction_rms vs run
χ² / ndf 1207 / 25
p0 1069 ± 1.488
1200
1150
1100
1050
1000
950
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

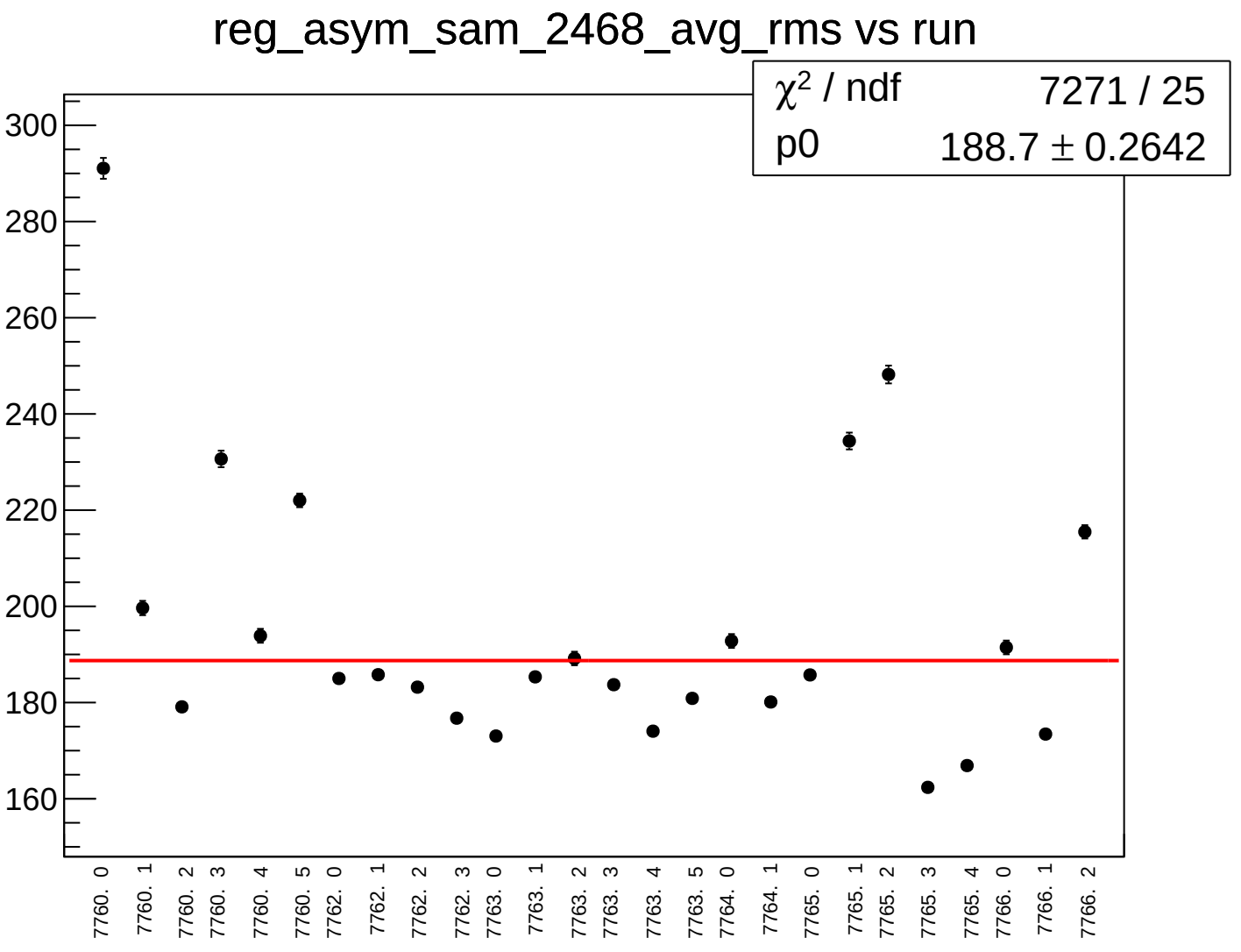

asym_sam_1357_avg_mean vs run
χ² / ndf 32.6 / 25
p0 4163 ± 2121
40000
30000
20000
10000
0
−10000
−20000
−30000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 833.8
Std Dev 825.9
1.5
1
0.5
0
−0.5
−1
−1.5
−2

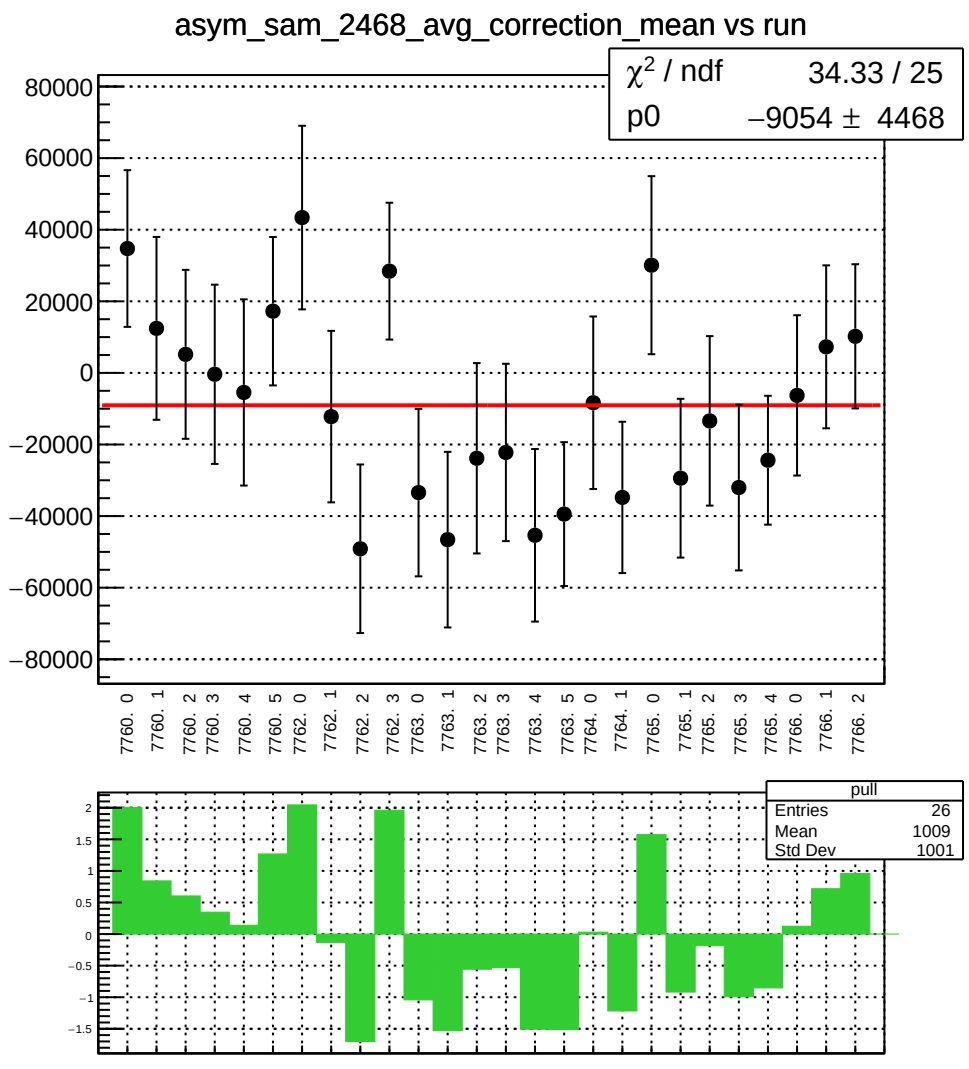

pull1D
Entries 26
Mean 0.003256
Std Dev 1.12
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

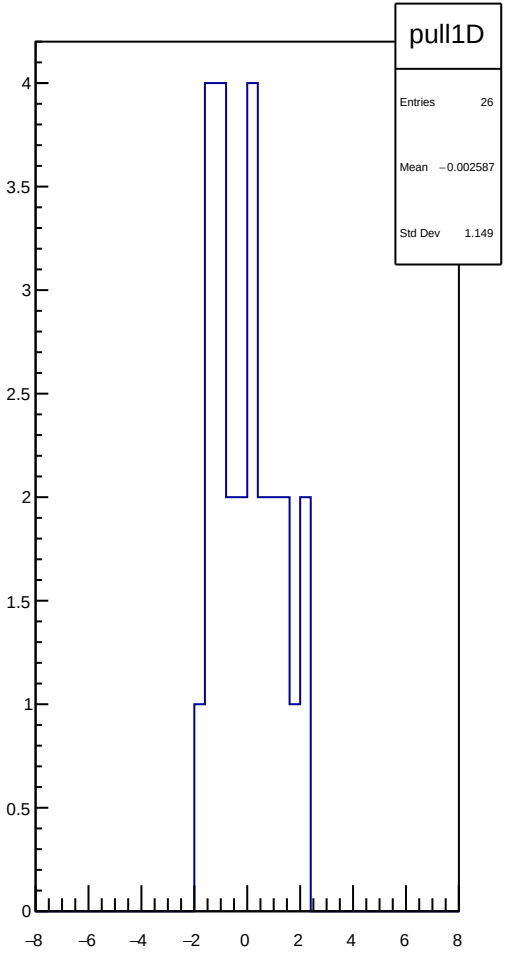

asym_sam_1357_avg_rms vs run
χ² / ndf 1128 / 25
p0 1078 ± 1.5
1200
1150
1100
1050
1000
950
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

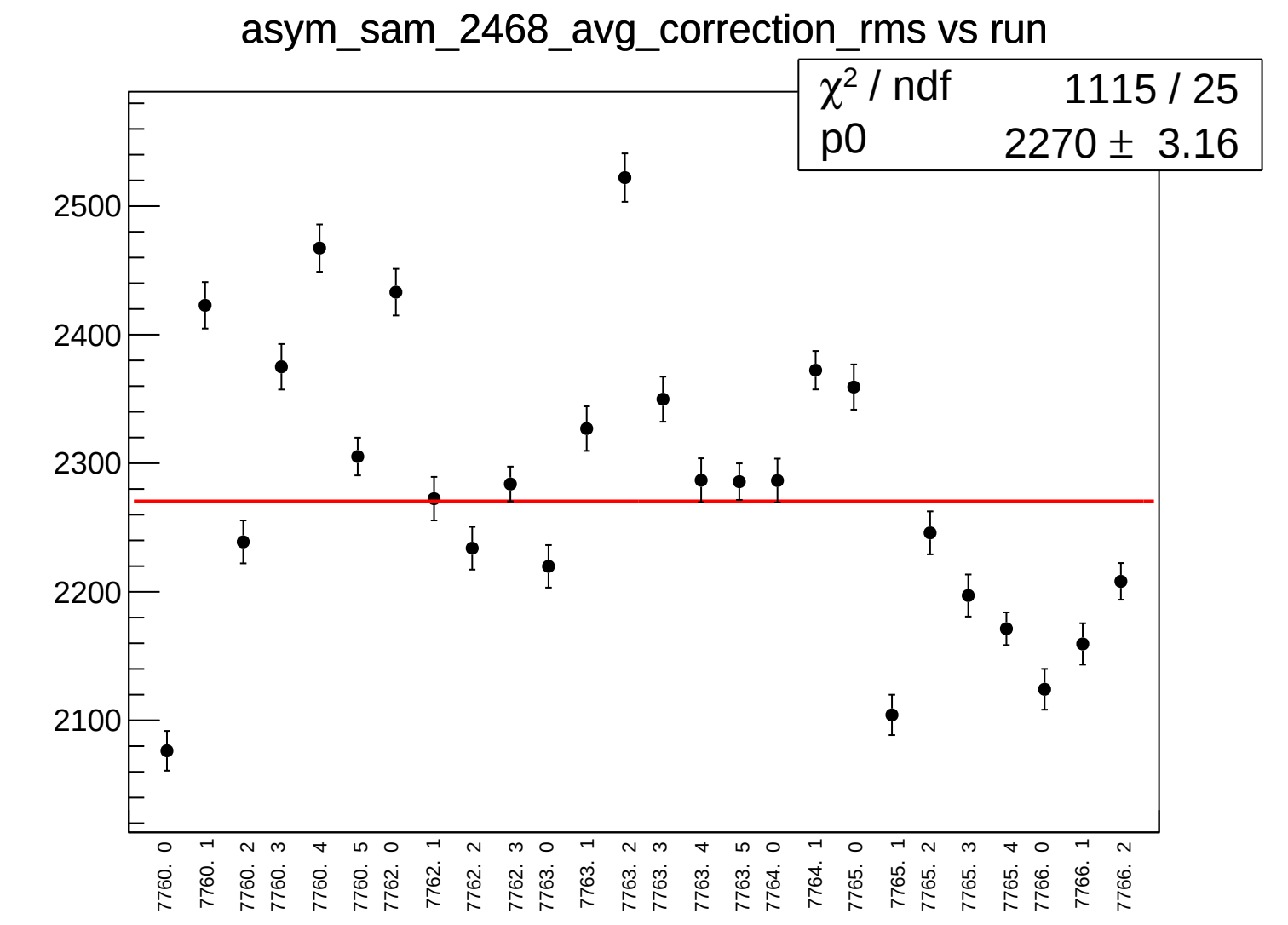

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 28.53 / 25
p0 145.8 ± 373.6
6000
4000
2000
0
−2000
−4000
−6000
−8000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 17.21
Std Dev 18.7
2
1
0
−1
−2

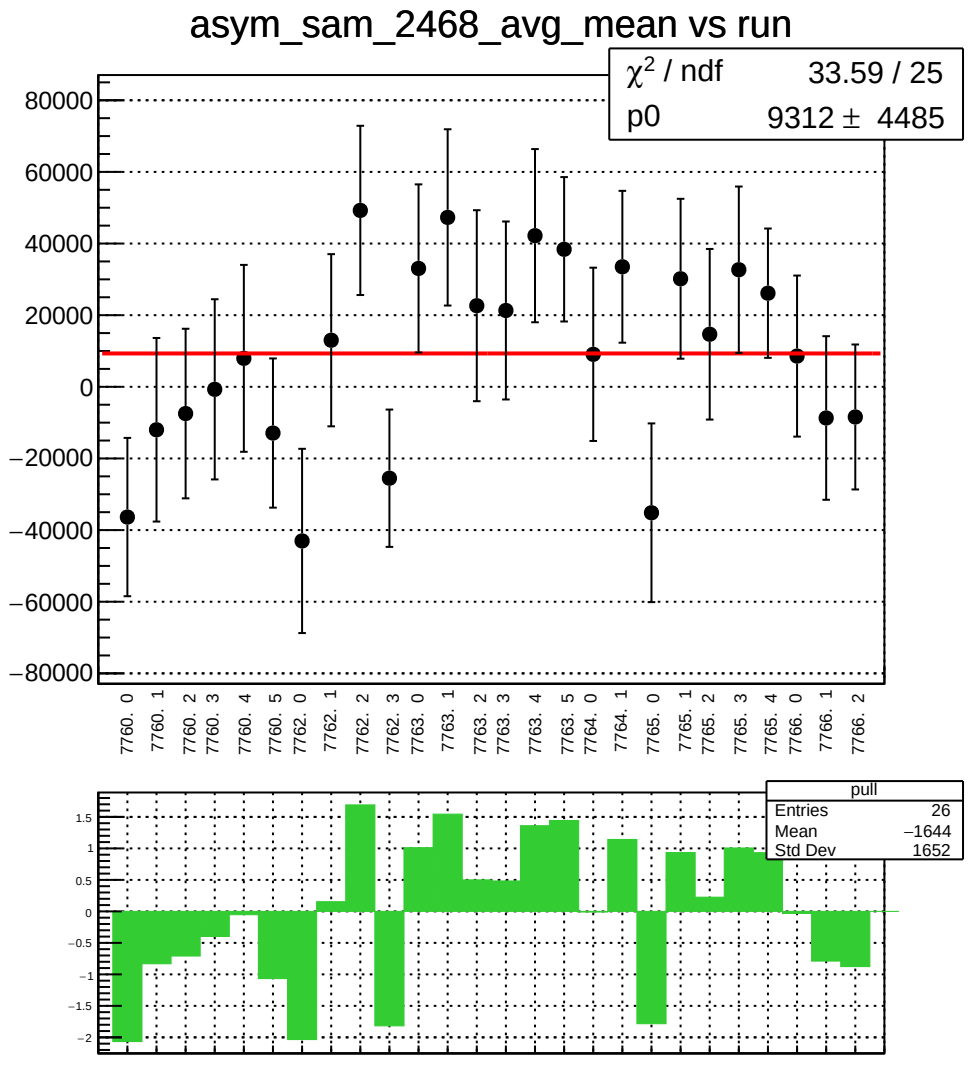

pull1D
Entries 26
Mean −0.01995
Std Dev 1.047
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

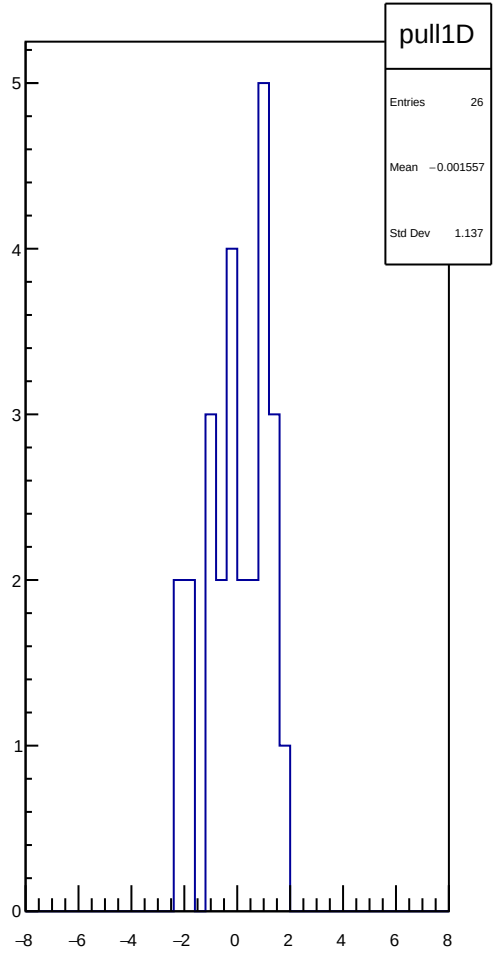

reg_asym_sam_2468_avg_rms vs run
χ² / ndf 7271 / 25
p0 188.7 ± 0.2642
300
280
260
240
220
200
180
160
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

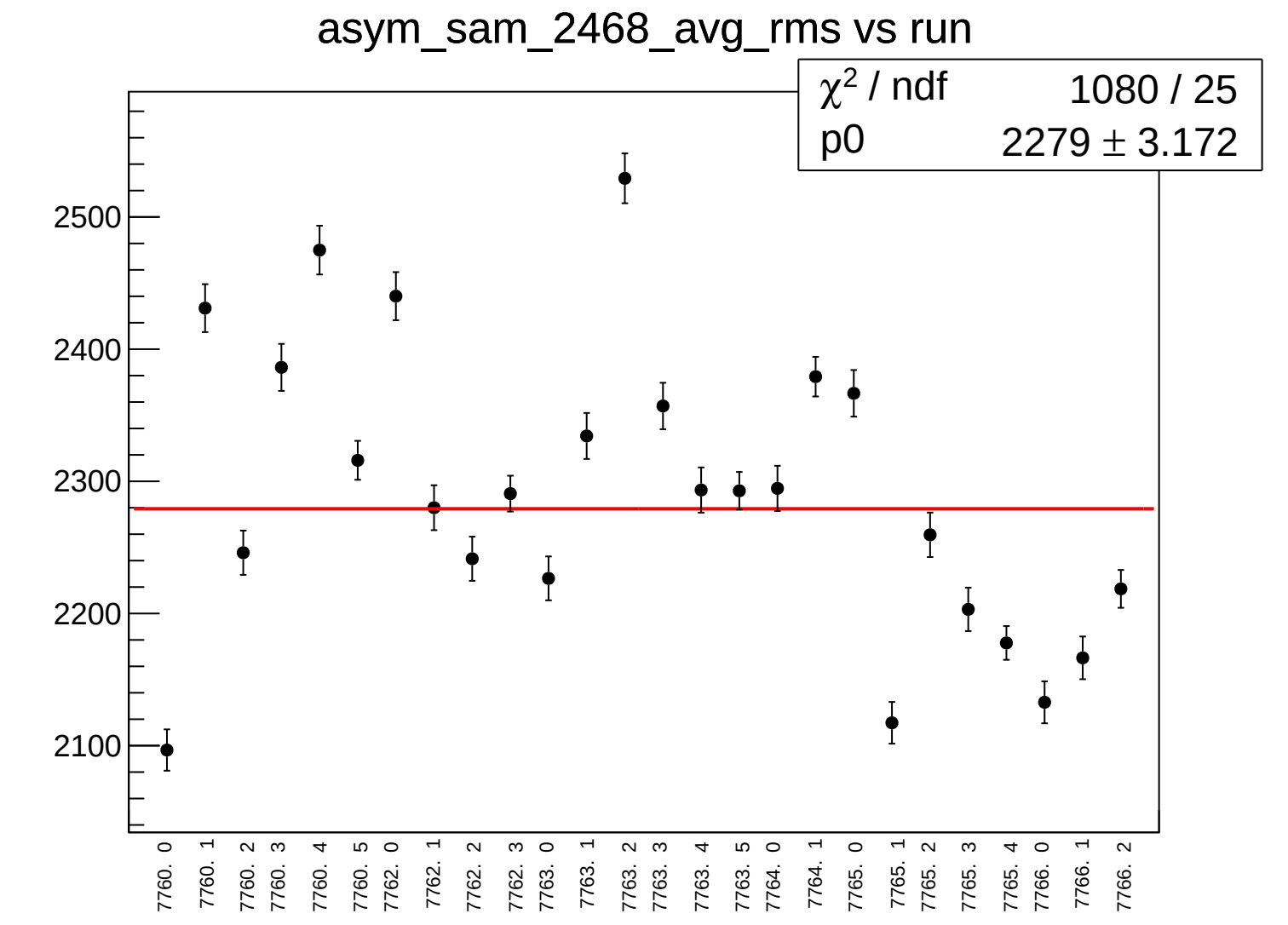

asym_sam_2468_avg_correction_mean vs run
χ² / ndf 34.33 / 25
p0 −9054 ± 4468
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 1009
Std Dev 1001
2
1.5
1
0.5
0
−0.5
−1
−1.5

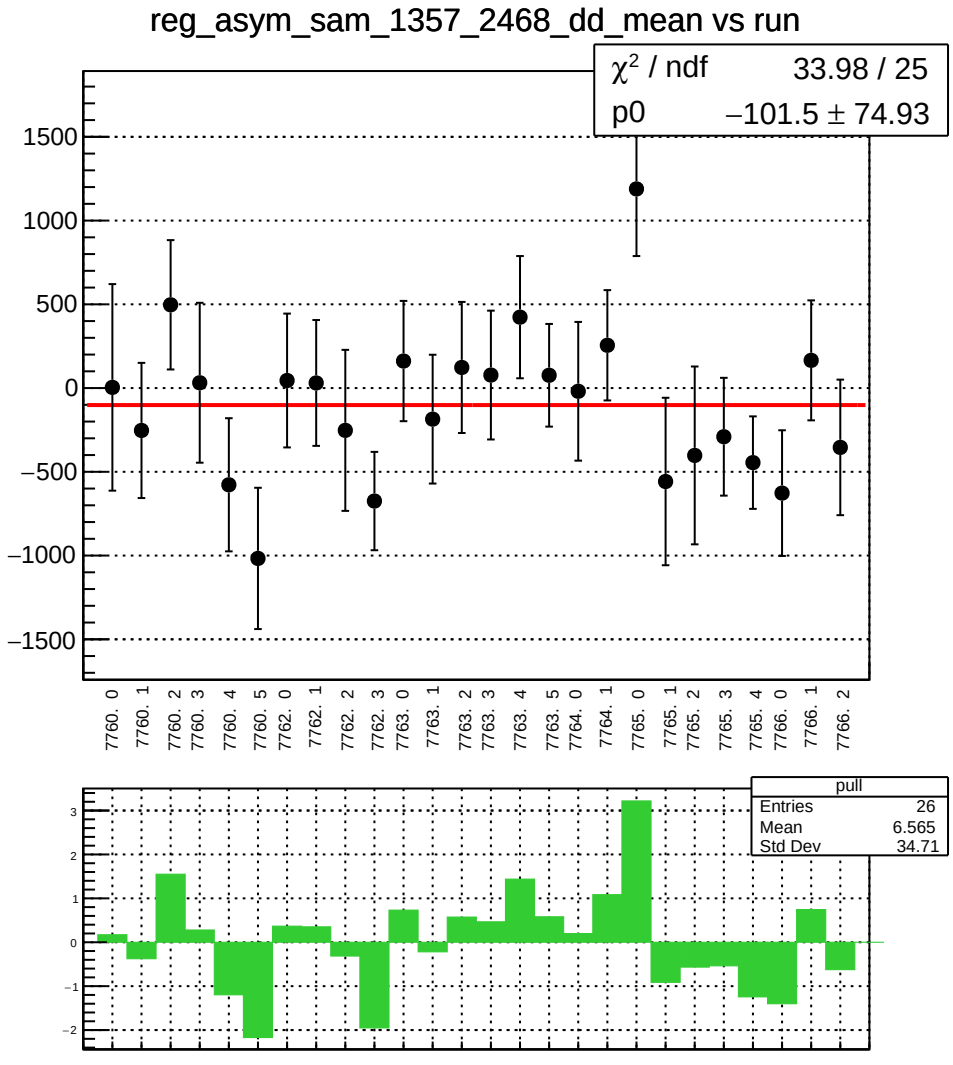

pull1D
Entries 26
Mean −0.002587
Std Dev 1.149
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

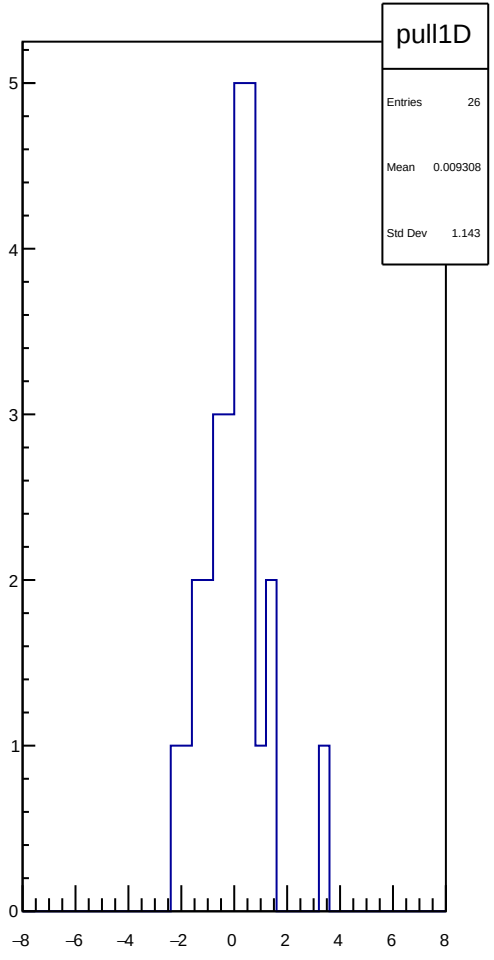

asym_sam_2468_avg_correction_rms vs run
χ² / ndf 1115 / 25
p0 2270 ± 3.16
2500
2400
2300
2200
2100
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

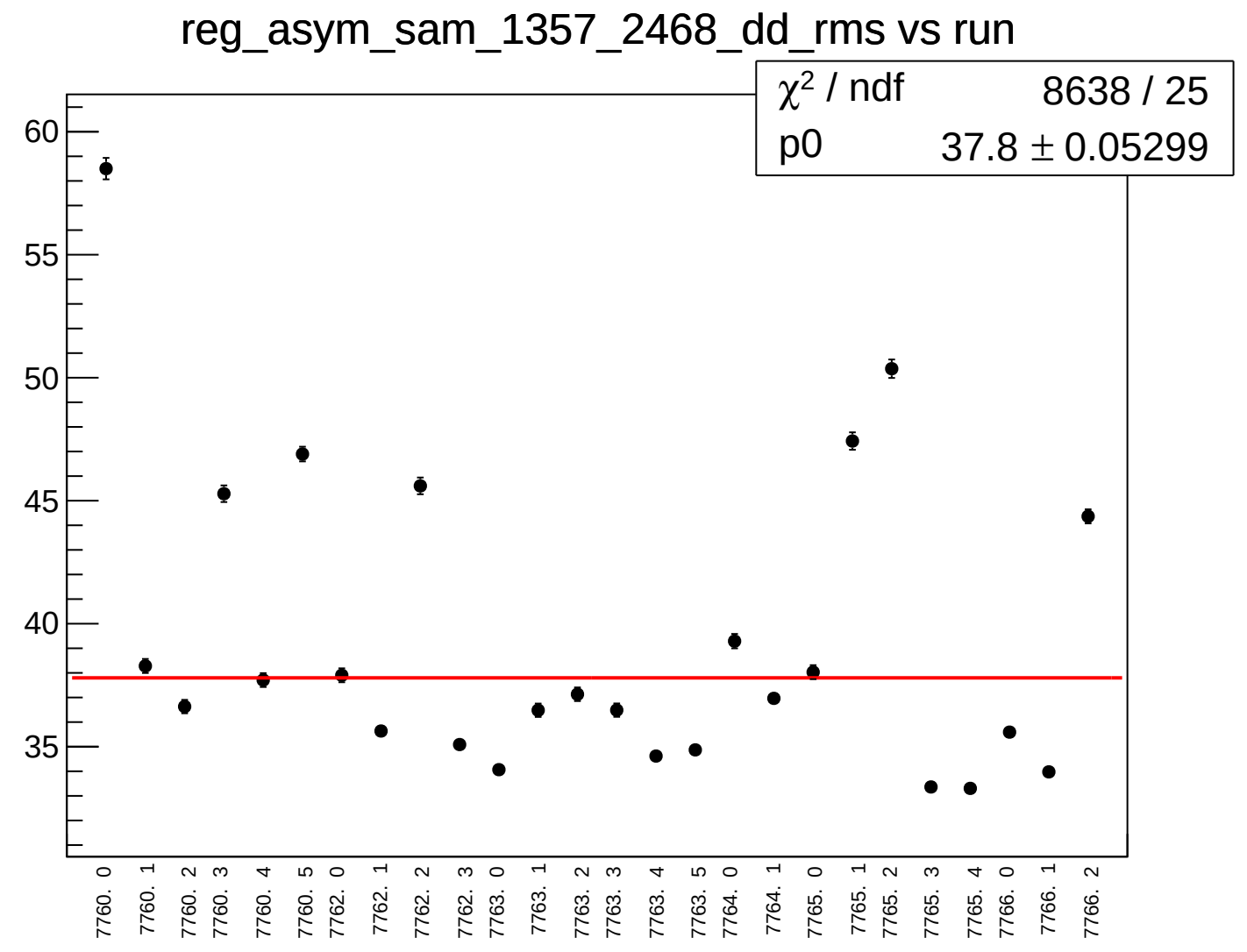

asym_sam_2468_avg_mean vs run
χ² / ndf 33.59 / 25
p0 9312 ± 4485
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −1644
Std Dev 1652
1.5
1
0.5
0
−0.5
−1
−1.5
−2

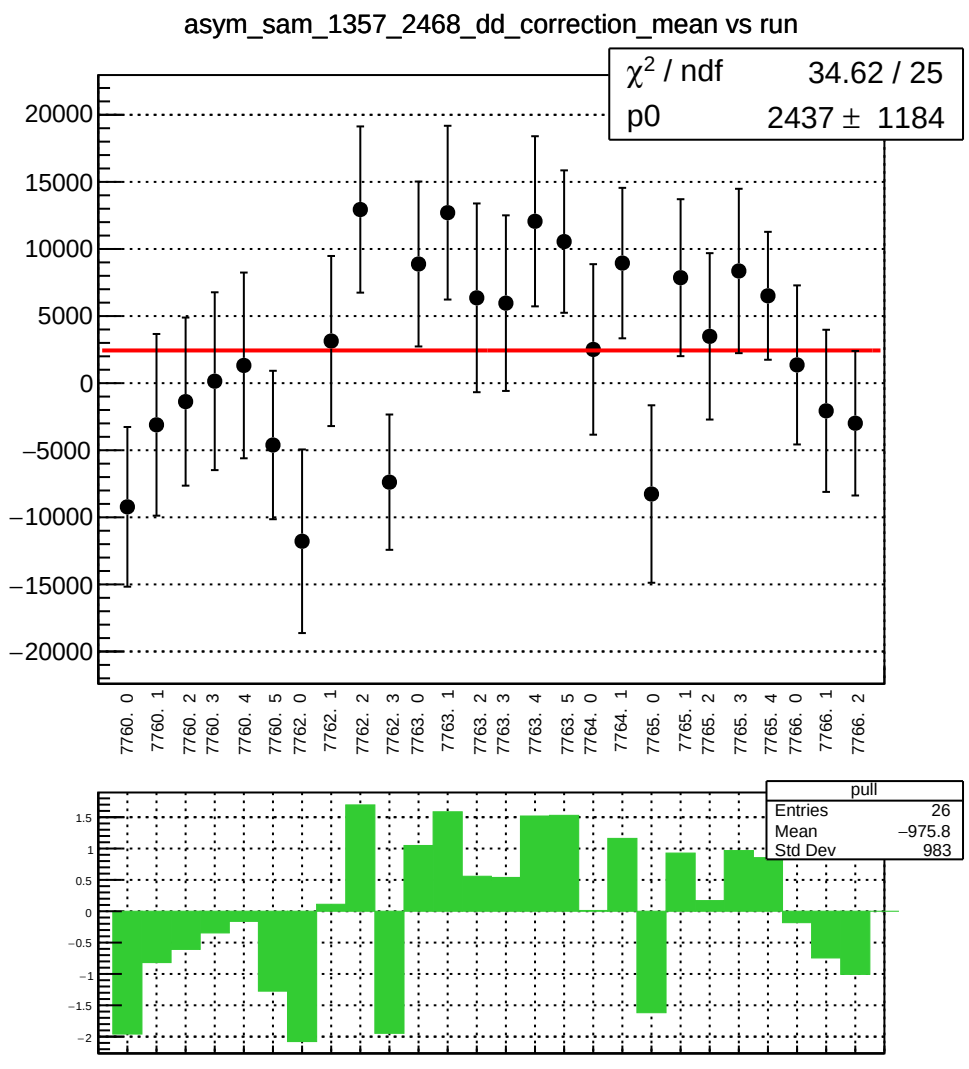

pull1D
Entries 26
Mean −0.001557
Std Dev 1.137
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

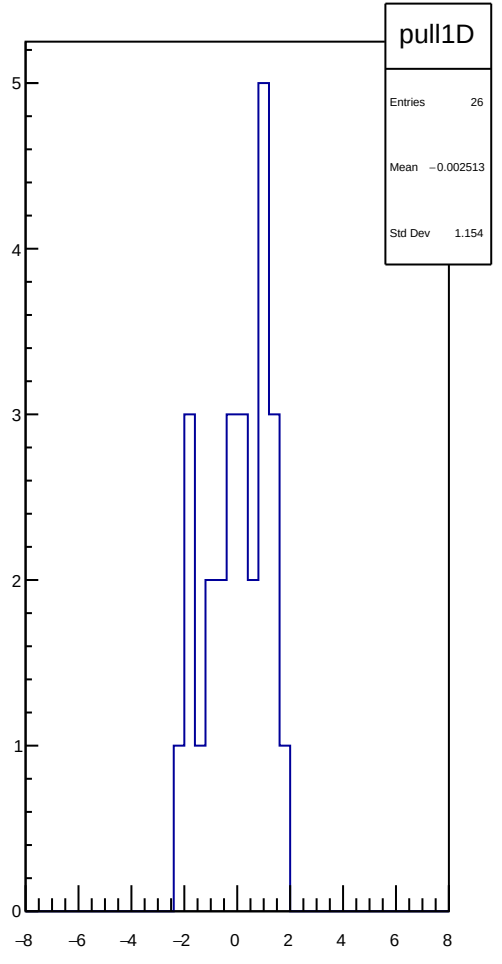

asym_sam_2468_avg_rms vs run
χ² / ndf 1080 / 25
p0 2279 ± 3.172
2500
2400
2300
2200
2100
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

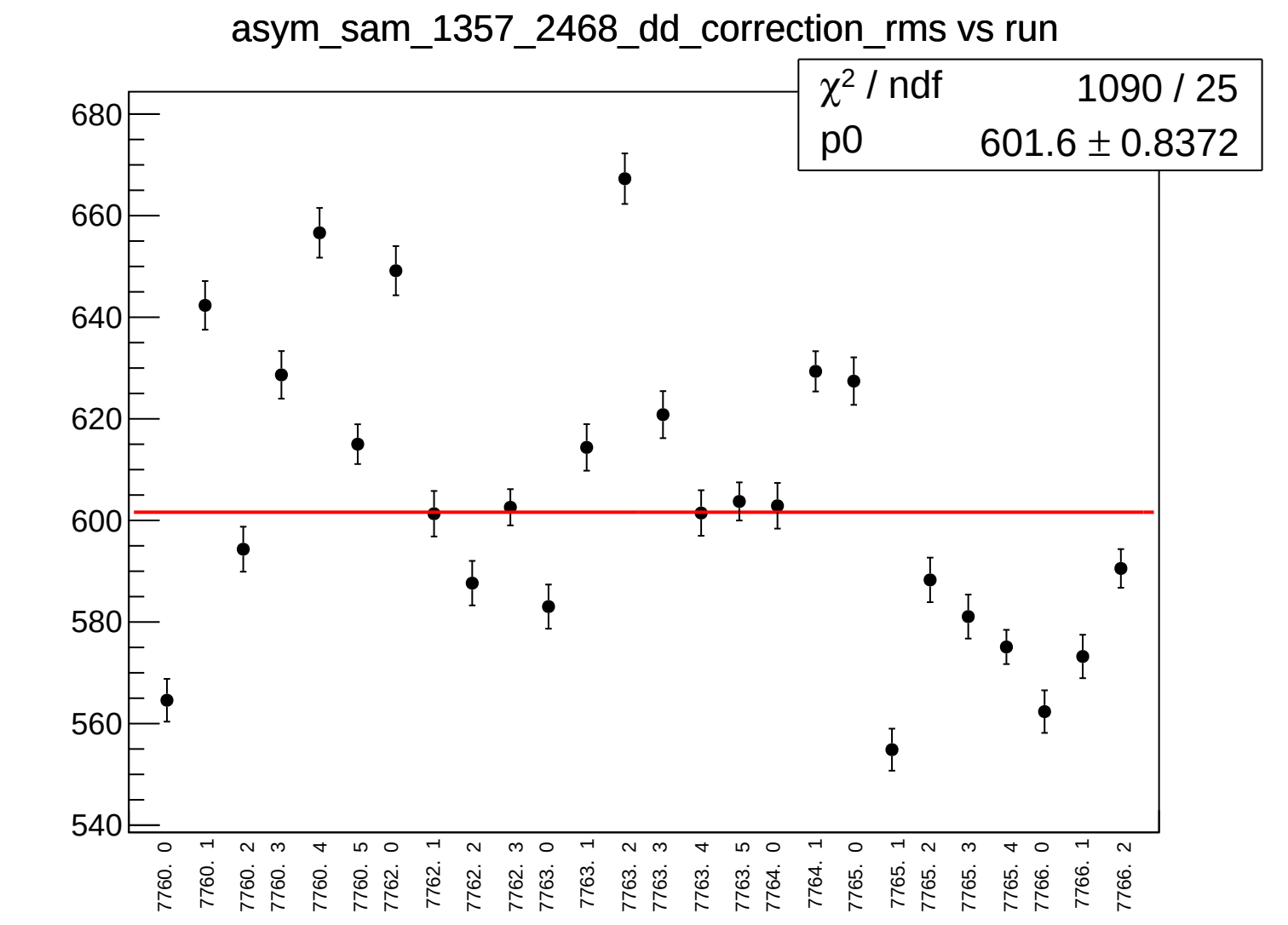

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 33.98 / 25
p0 −101.5 ± 74.93
1500
1000
500
0
−500
−1000
−1500
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 6.565
Std Dev 34.71
3
2
1
0
−1
−2

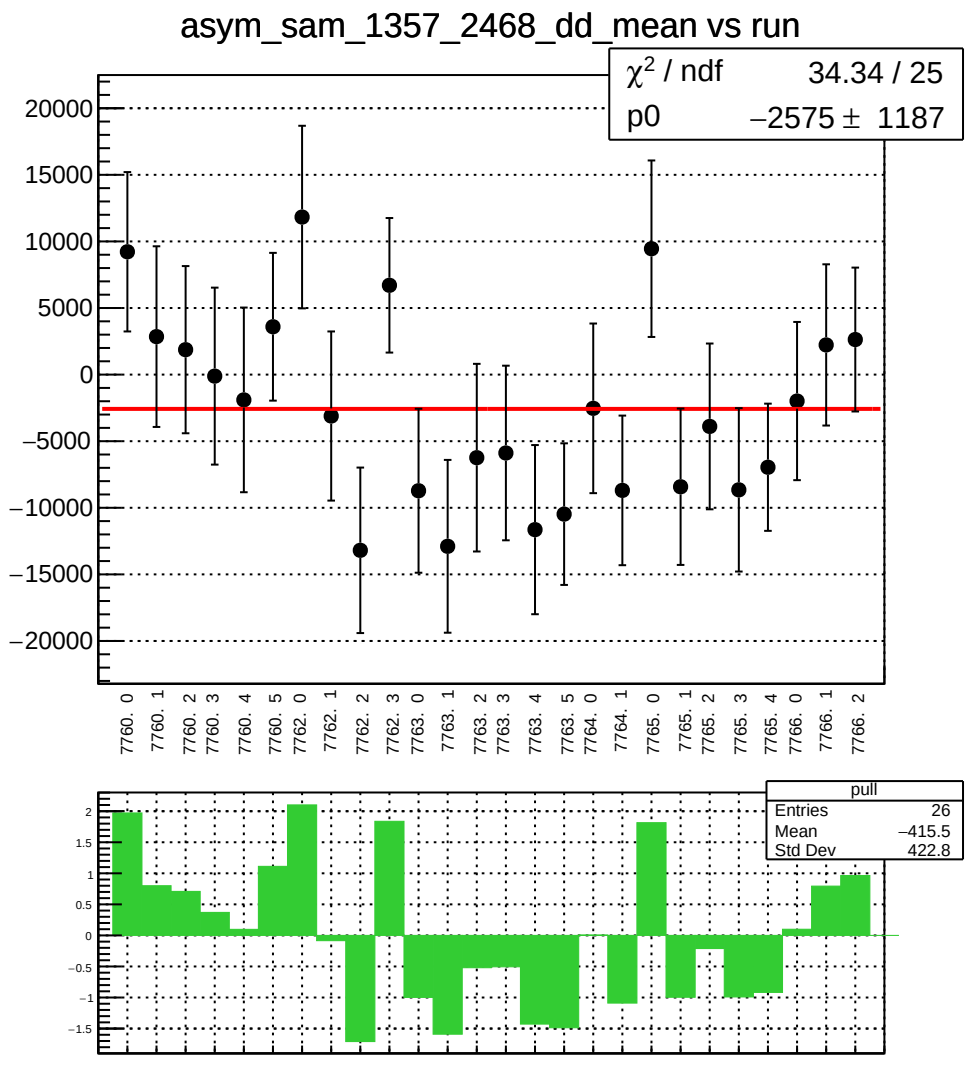

pull1D
Entries 26
Mean 0.009308
Std Dev 1.143
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

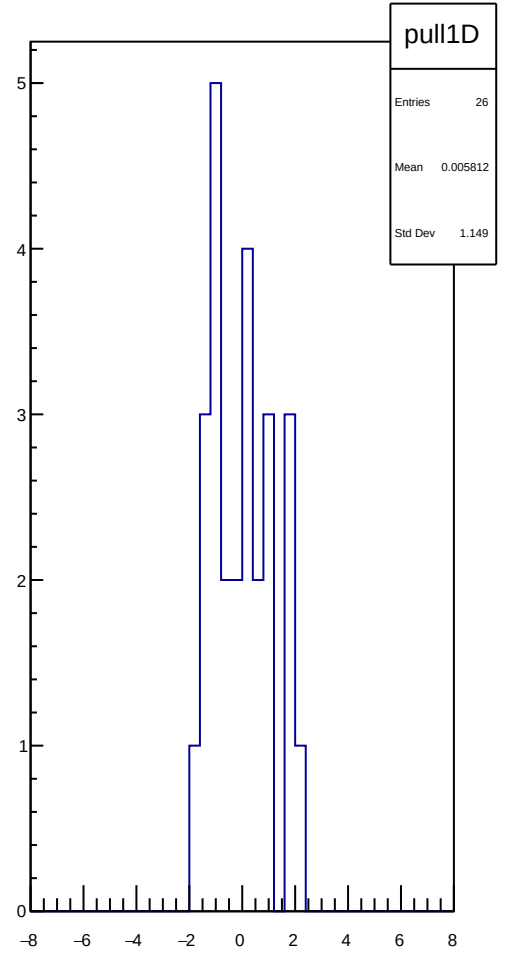

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 8638 / 25
p0 37.8 ± 0.05299
60
55
50
45
40
35
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

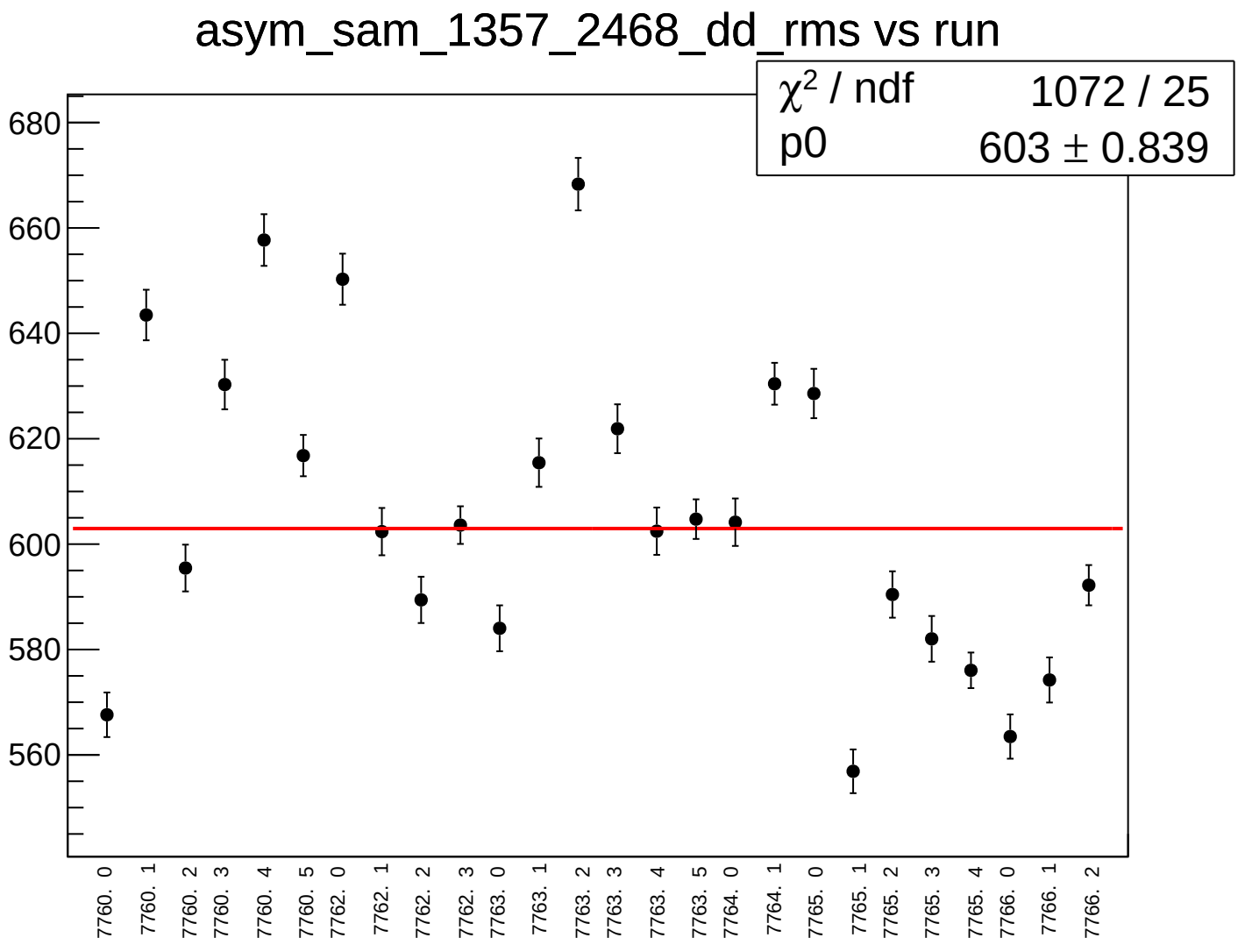

asym_sam_1357_2468_dd_correction_mean vs run
χ² / ndf 34.62 / 25
p0 2437 ± 1184
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −975.8
Std Dev 983
1.5
1
0.5
0
−0.5
−1
−1.5
−2

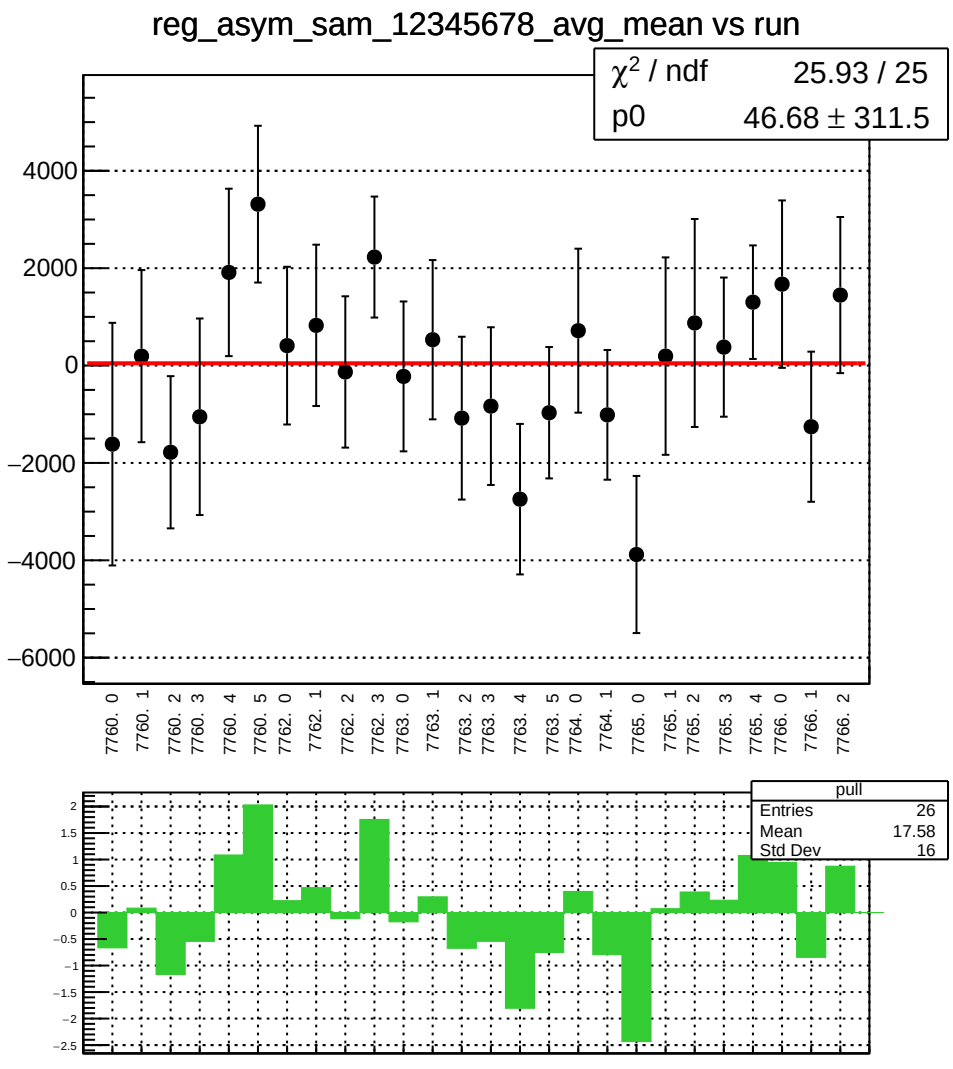

pull1D
Entries 26
Mean −0.002513
Std Dev 1.154
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

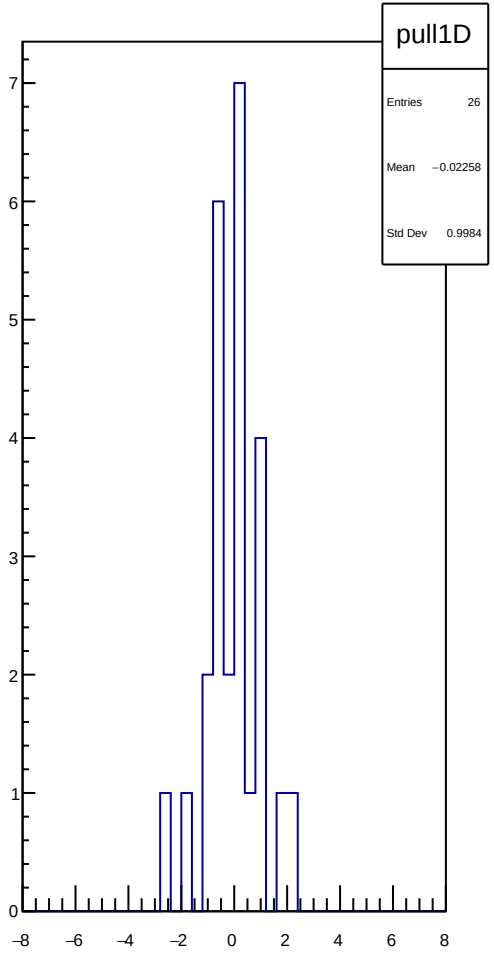

asym_sam_1357_2468_dd_correction_rms vs run
χ² / ndf 1090 / 25
p0 601.6 ± 0.8372
680
660
640
620
600
580
560
540
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

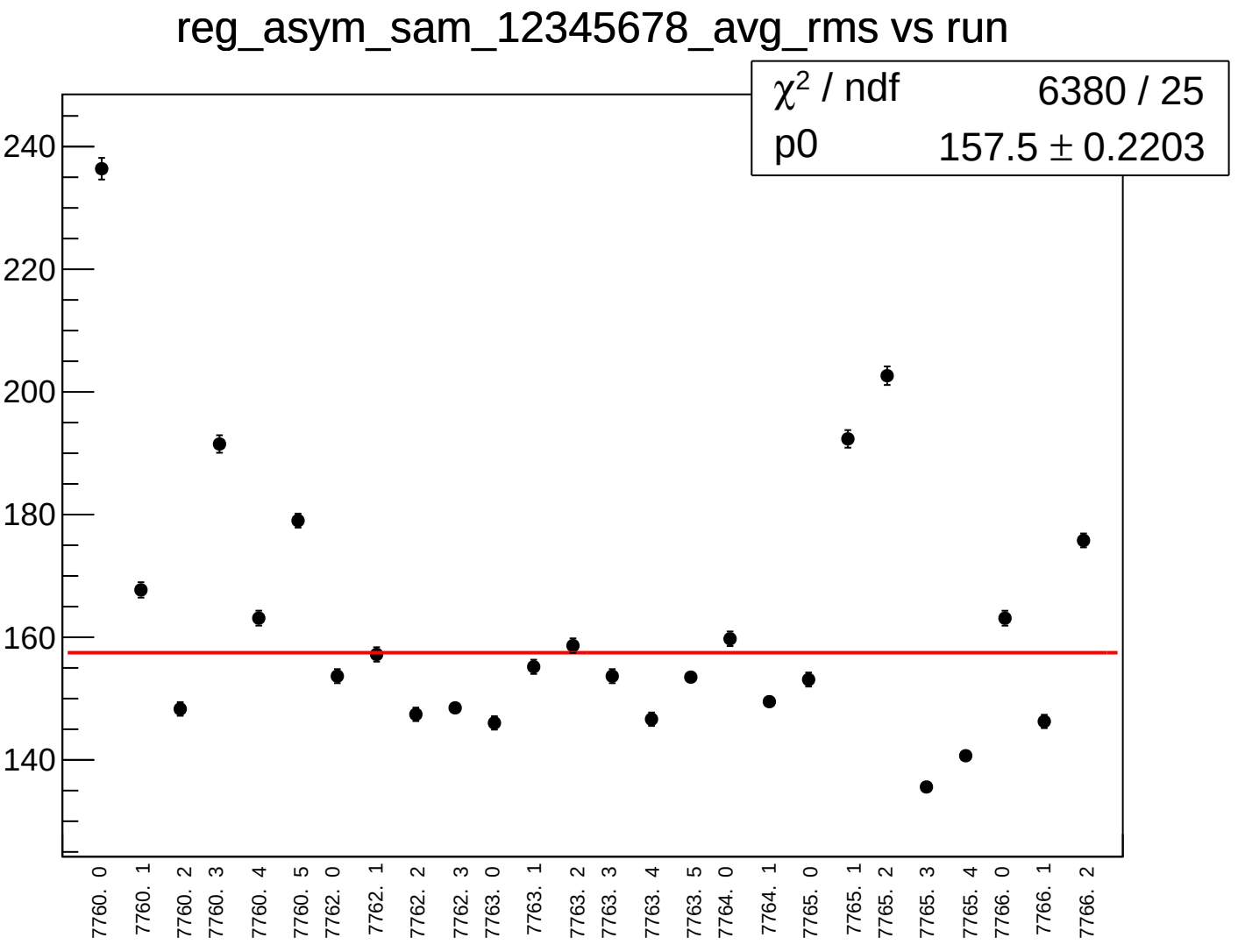

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 34.34 / 25
p0 −2575 ± 1187
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −415.5
Std Dev 422.8
2
1.5
1
0.5
0
−0.5
−1
−1.5

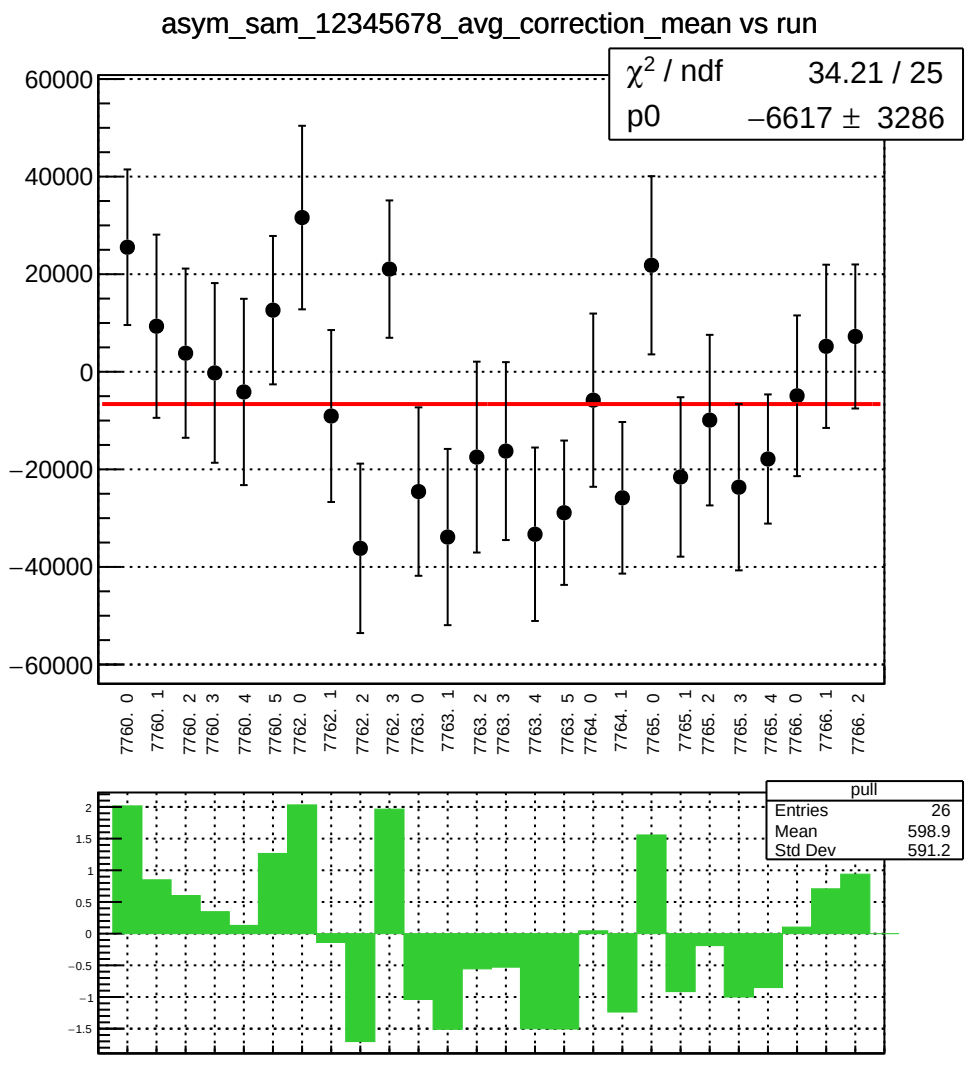

pull1D
Entries 26
Mean 0.005812
Std Dev 1.149
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

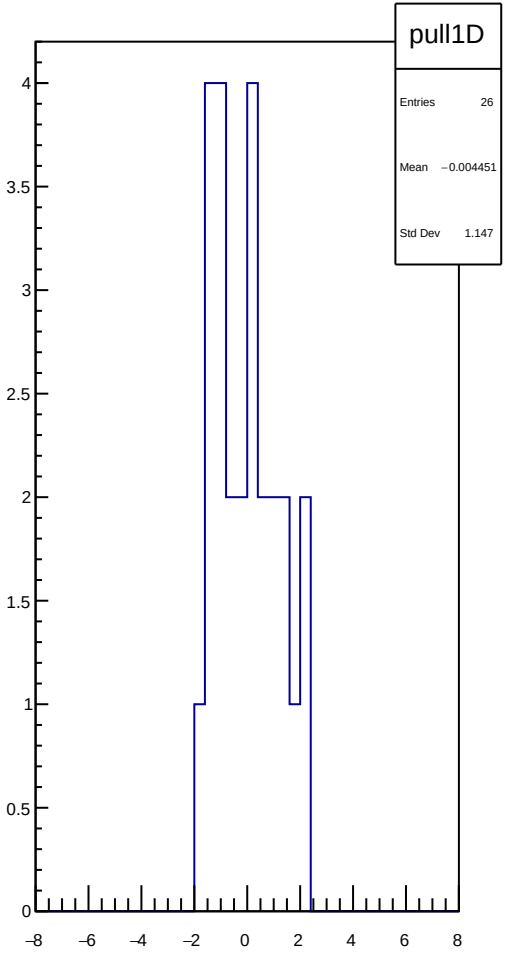

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1072 / 25
p0 603 ± 0.839
680
660
640
620
600
580
560
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

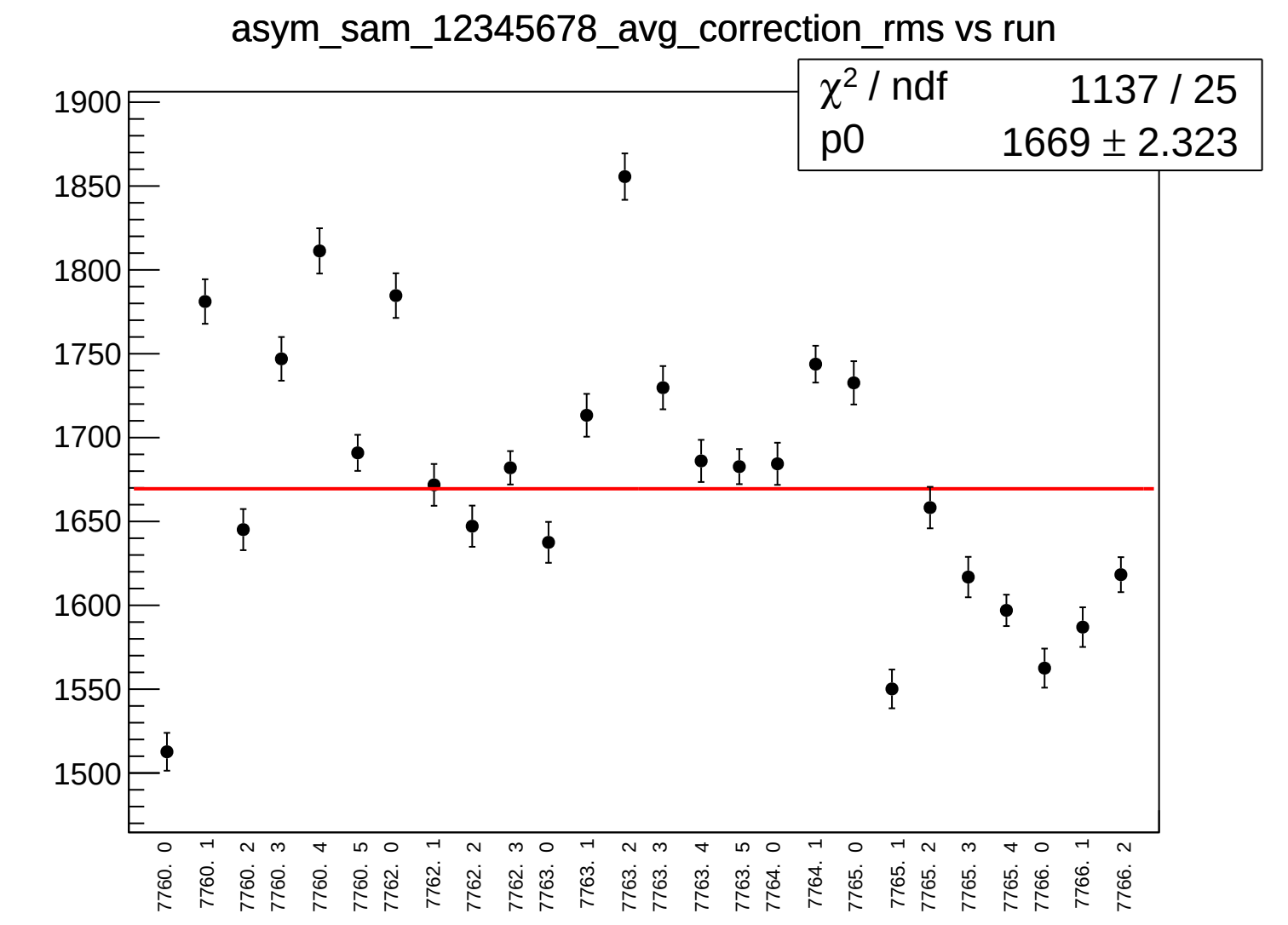

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 25.93 / 25
p0 46.68 ± 311.5
4000
2000
0
−2000
−4000
−6000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 17.58
Std Dev 16
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

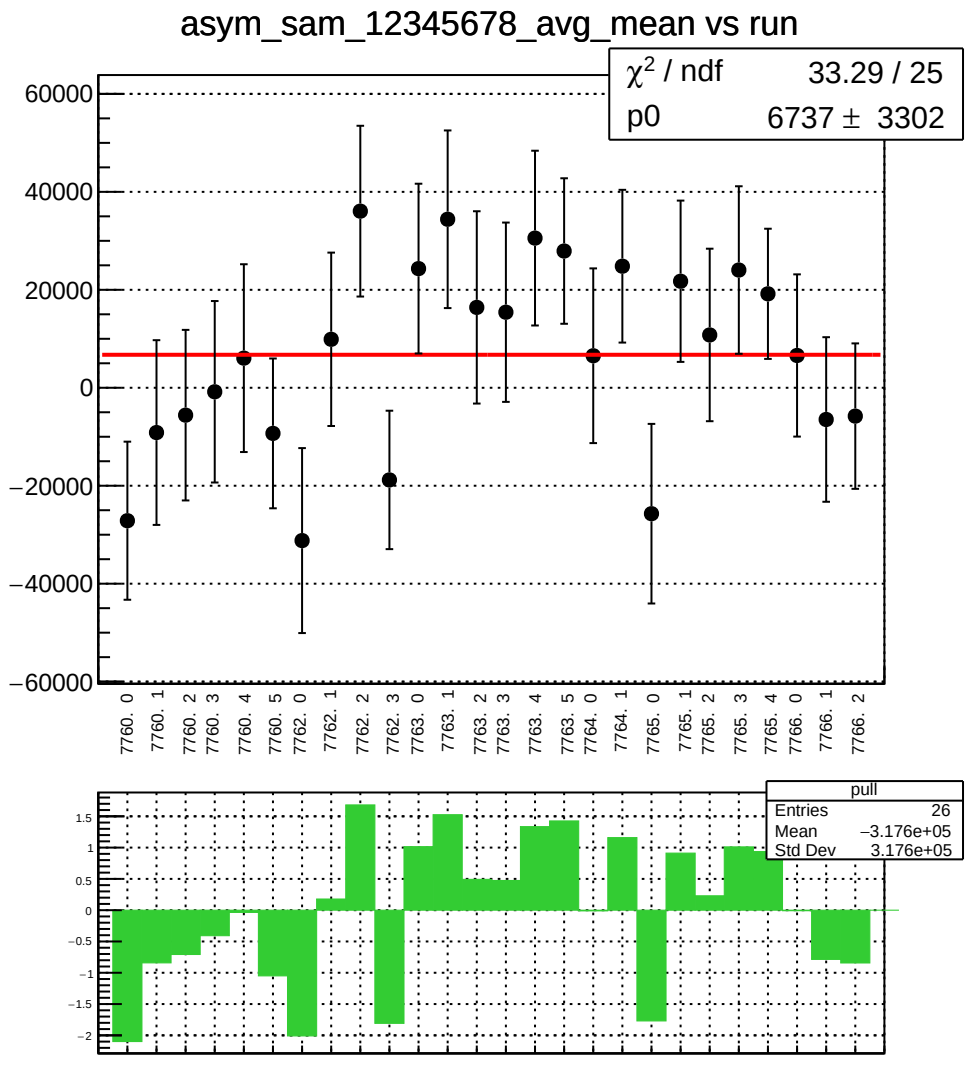

pull1D
Entries 26
Mean −0.02258
Std Dev 0.9984
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

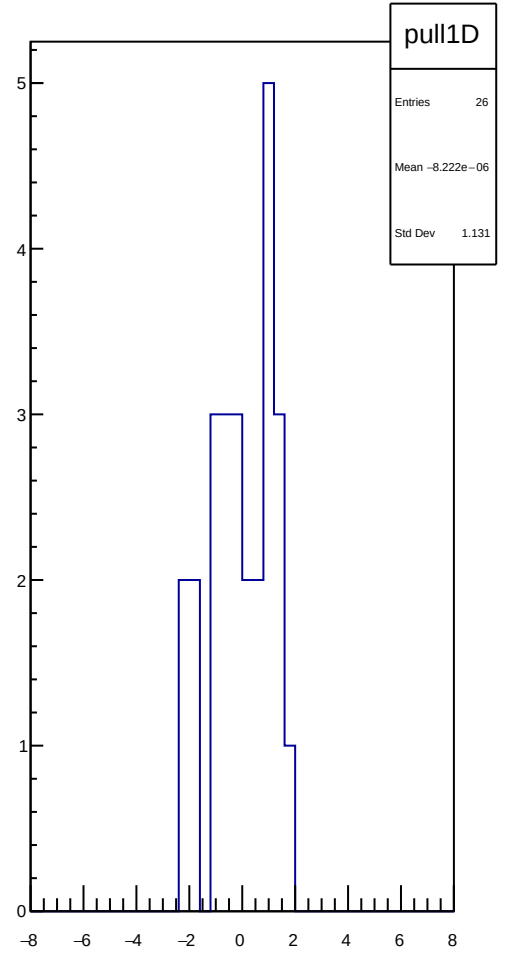

reg_asym_sam_12345678_avg_rms vs run
χ² / ndf 6380 / 25
p0 157.5 ± 0.2203
240
220
200
180
160
140
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

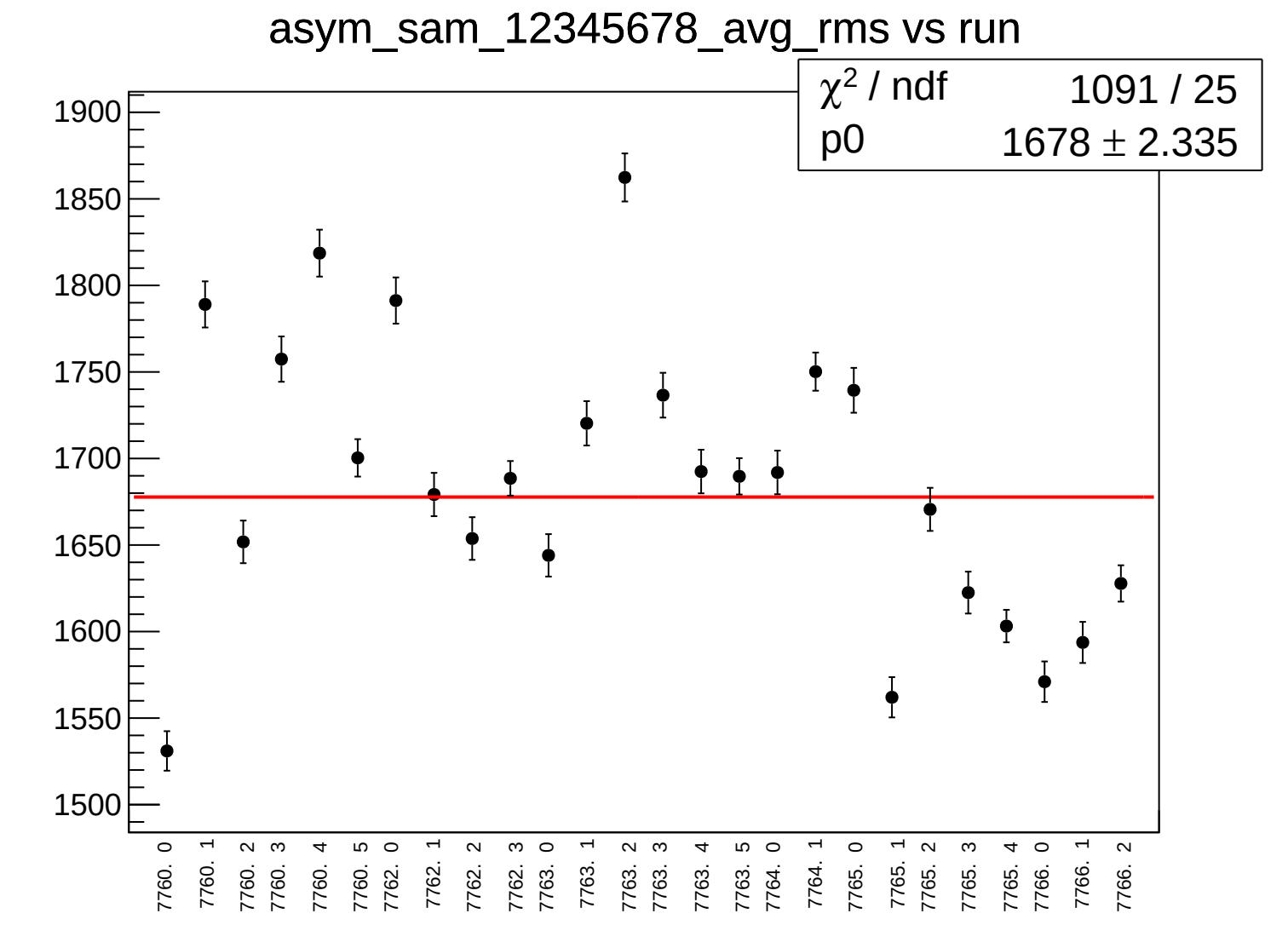

asym_sam_12345678_avg_correction_mean vs run
χ² / ndf 34.21 / 25
p0 −6617 ± 3286
60000
40000
20000
0
−20000
−40000
−60000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 598.9
Std Dev 591.2
2
1.5
1
0.5
0
−0.5
−1
−1.5

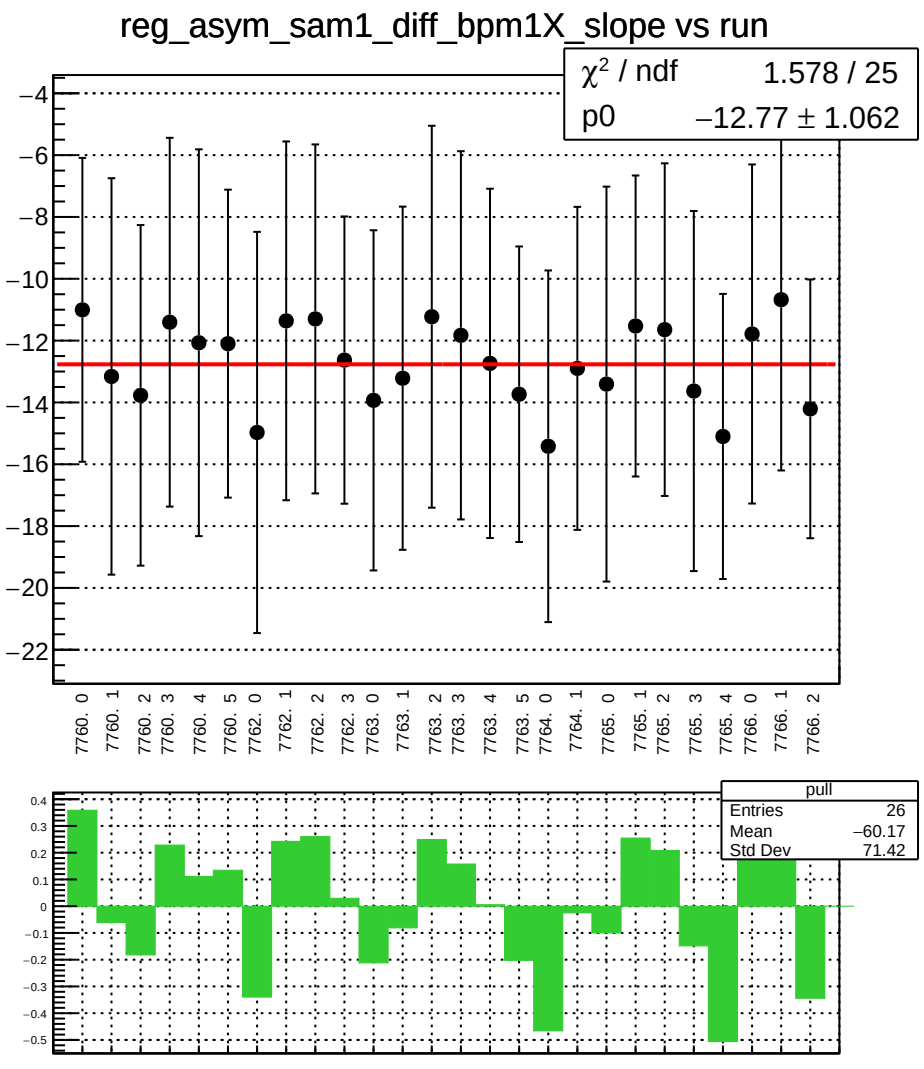

pull1D
Entries 26
Mean −0.004451
Std Dev 1.147
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

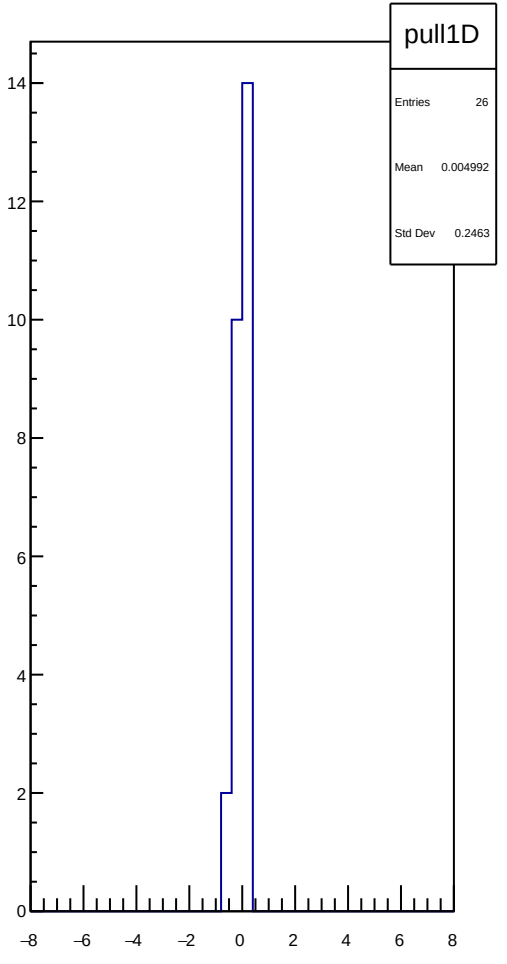

asym_sam_12345678_avg_correction_rms vs run
χ² / ndf 1137 / 25
p0 1669 ± 2.323
1900
1850
1800
1750
1700
1650
1600
1550
1500
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

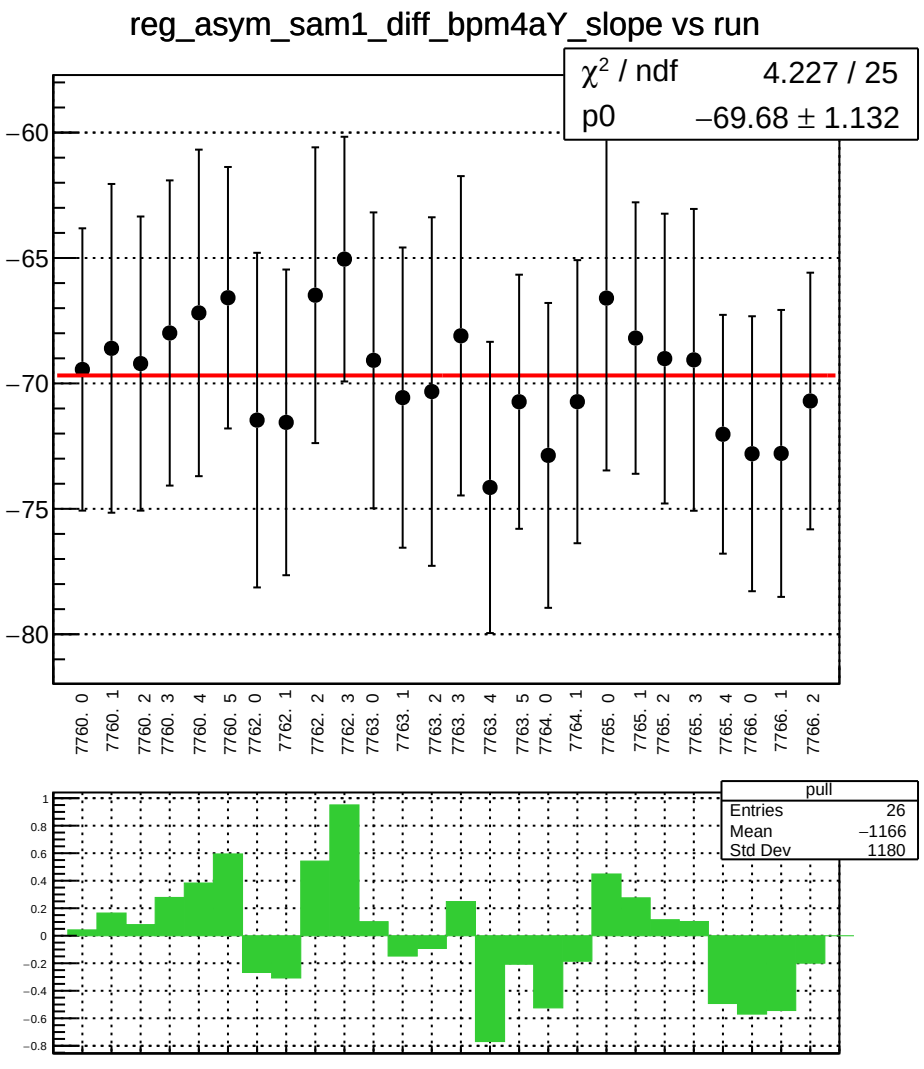

asym_sam_12345678_avg_mean vs run
χ² / ndf 33.29 / 25
p0 6737 ± 3302
60000
40000
20000
0
−20000
−40000
−60000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −3.176e+05
Std Dev 3.176e+05
1.5
1
0.5
0
−0.5
−1
−1.5
−2

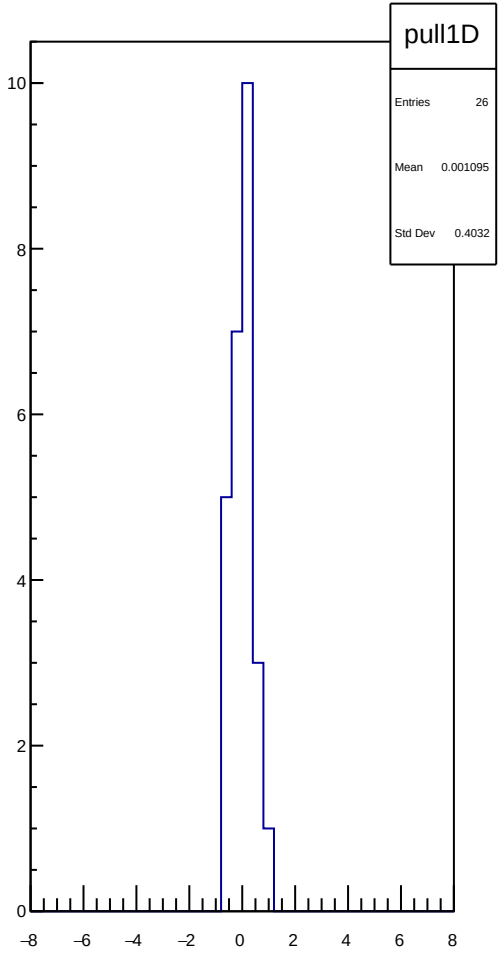

pull1D
Entries 26
Mean −8.222e−06
Std Dev 1.131
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

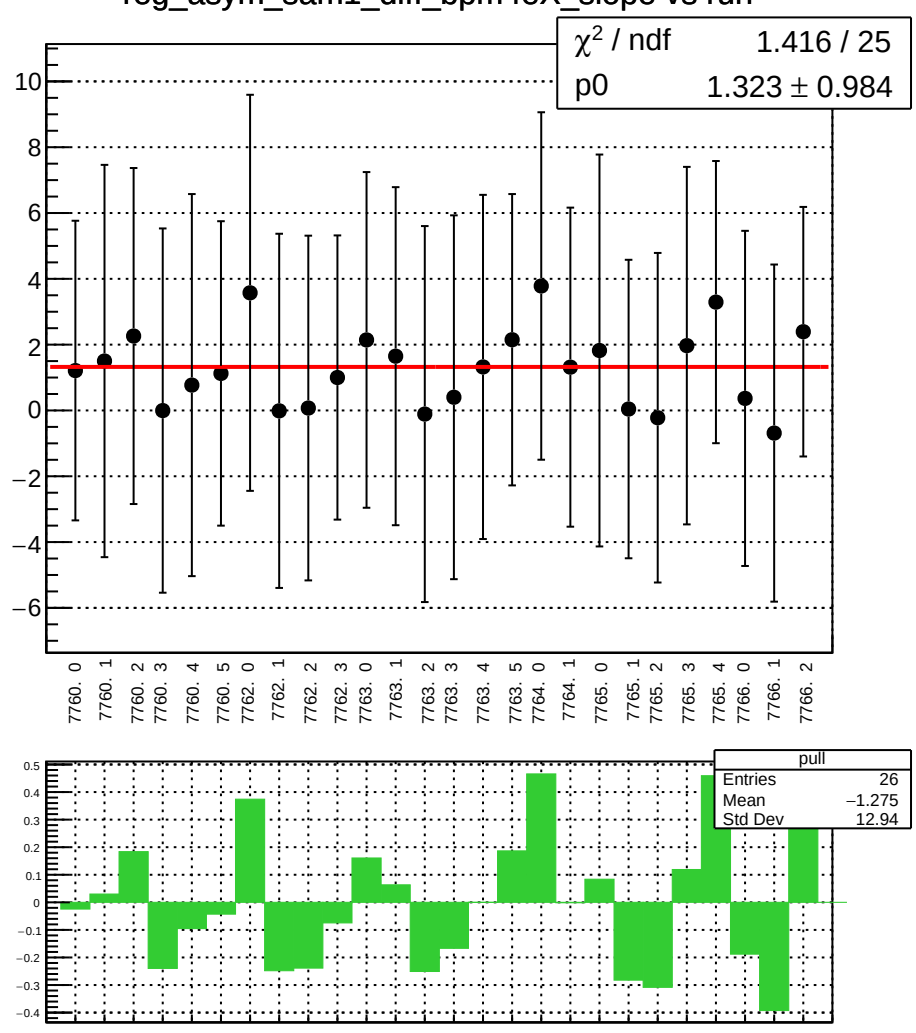

asym_sam_12345678_avg_rms vs run
χ² / ndf 1091 / 25
p0 1678 ± 2.335
1900
1850
1800
1750
1700
1650
1600
1550
1500
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

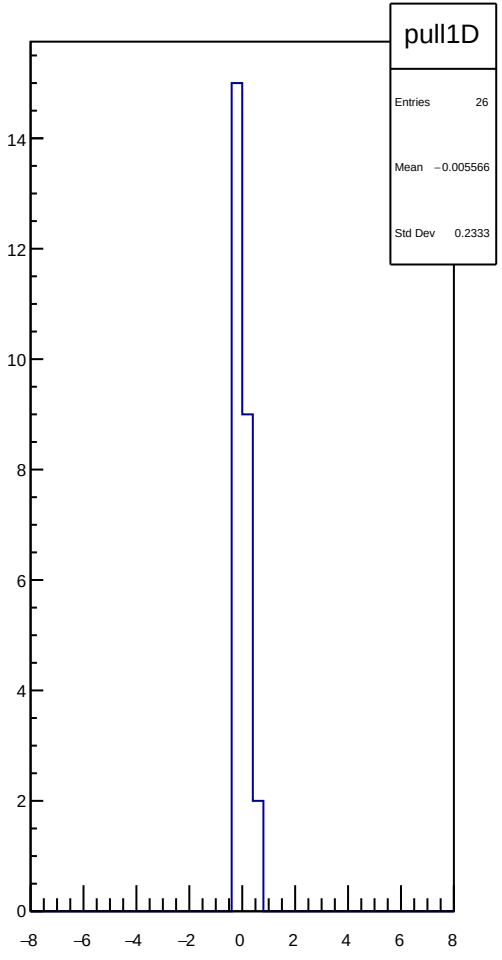

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 1.578 / 25
p0 −12.77 ± 1.062
−4
−6
−8
−10
−12
−14
−16
−18
−20
−22
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −60.17
Std Dev 71.42
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5

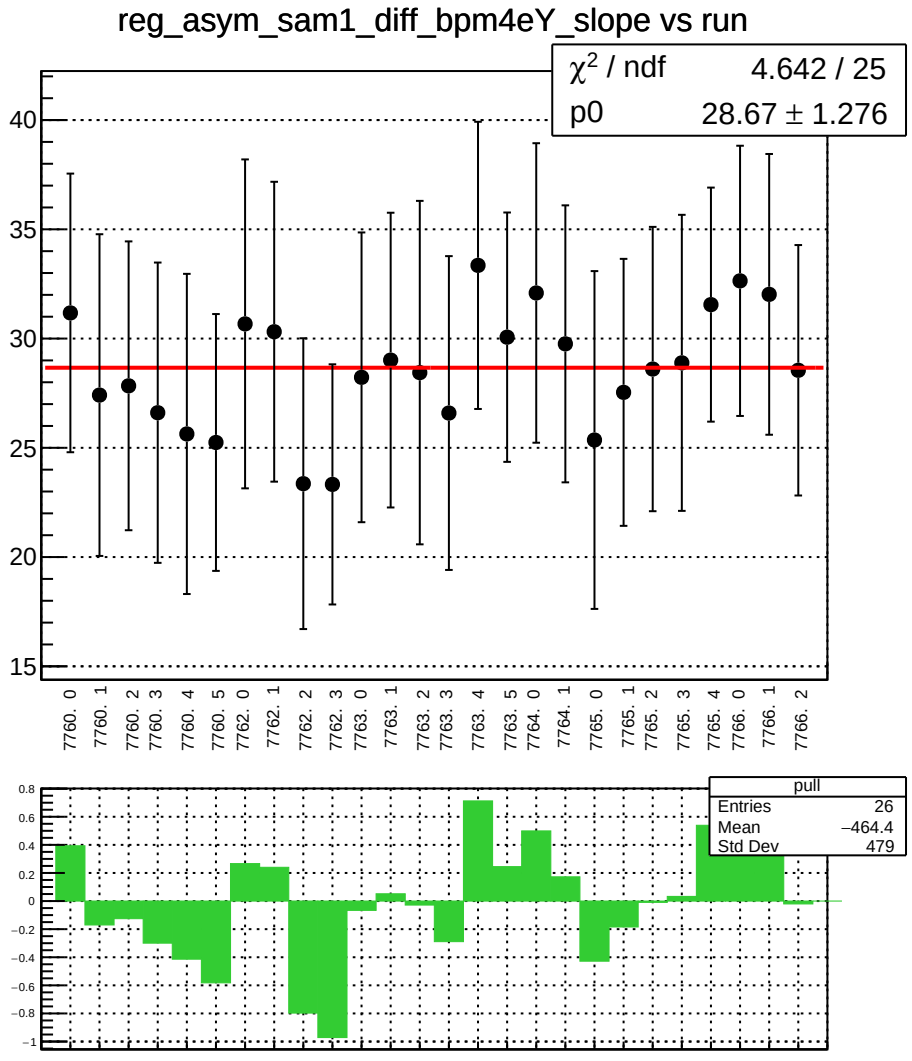

pull1D
Entries 26
Mean 0.004992
Std Dev 0.2463
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

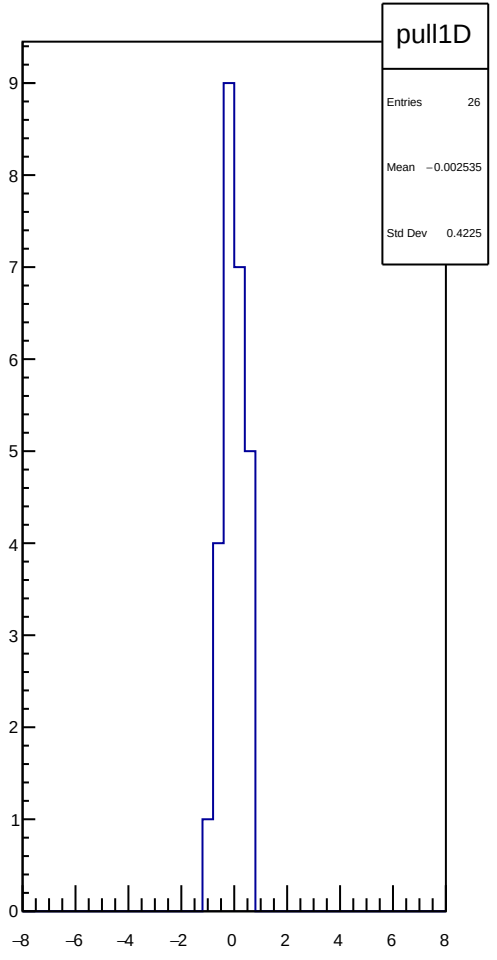

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 4.227 / 25
p0 −69.68 ± 1.132
−60
−65
−70
−75
−80
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −1166
Std Dev 1180
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

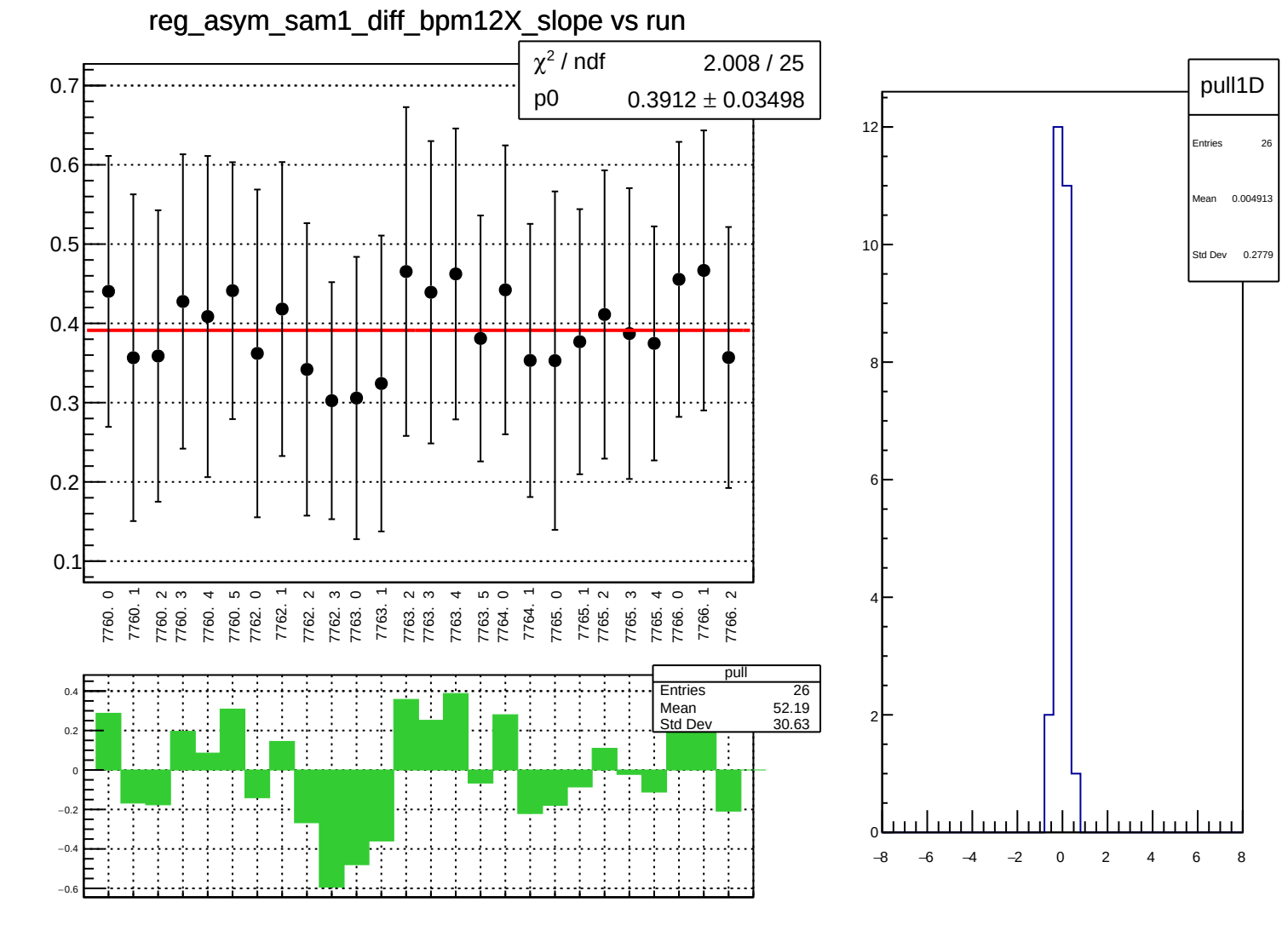

pull1D
Entries 26
Mean 0.001095
Std Dev 0.4032
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

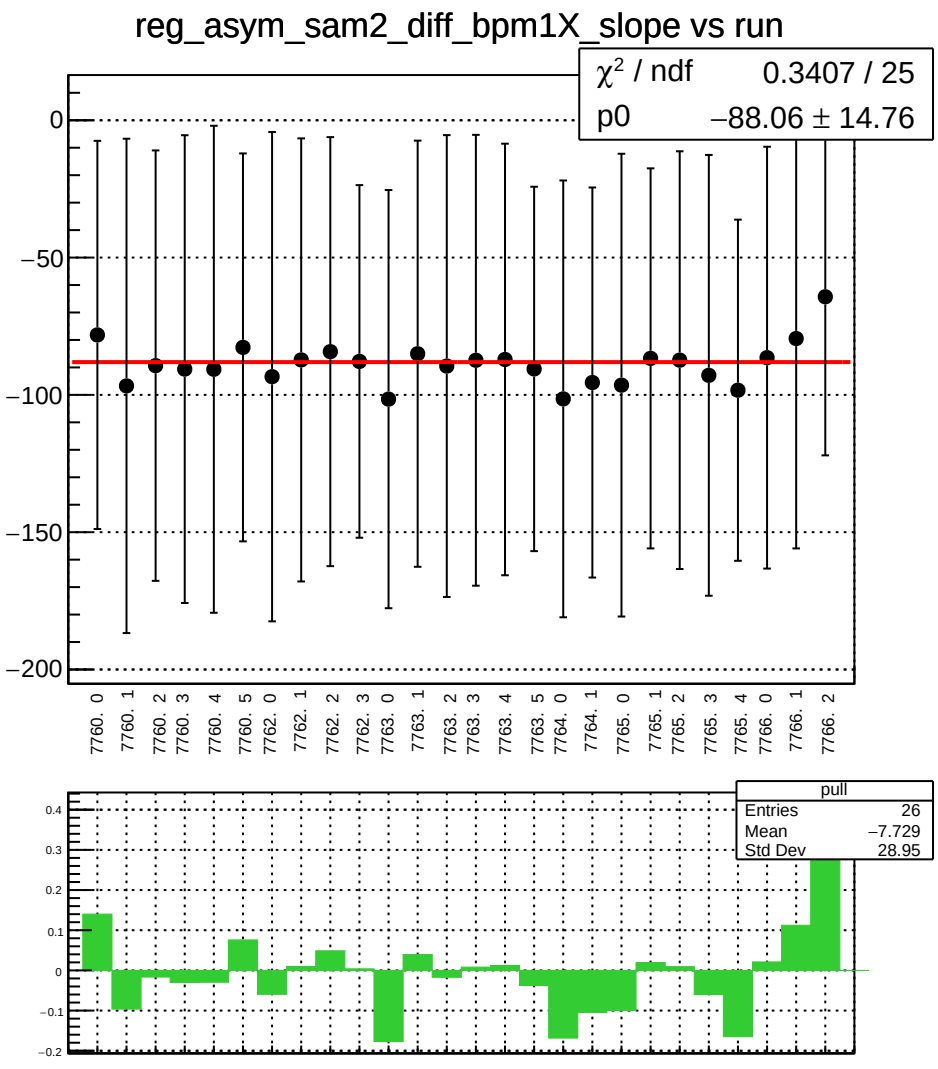

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 1.416 / 25
p0 1.323 ± 0.984
pull
Entries 26
Mean −1.275
Std Dev 12.94

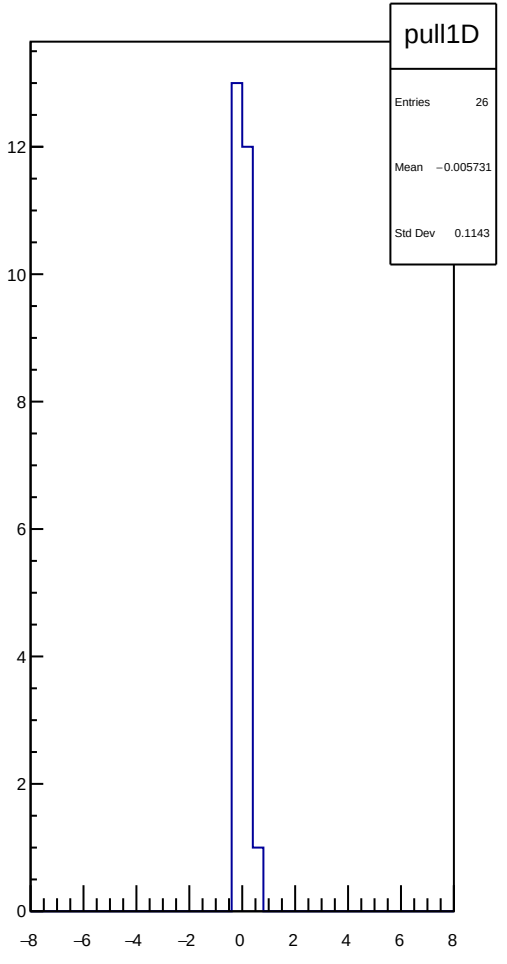

pull1D
Entries 26
Mean −0.005566
Std Dev 0.2333

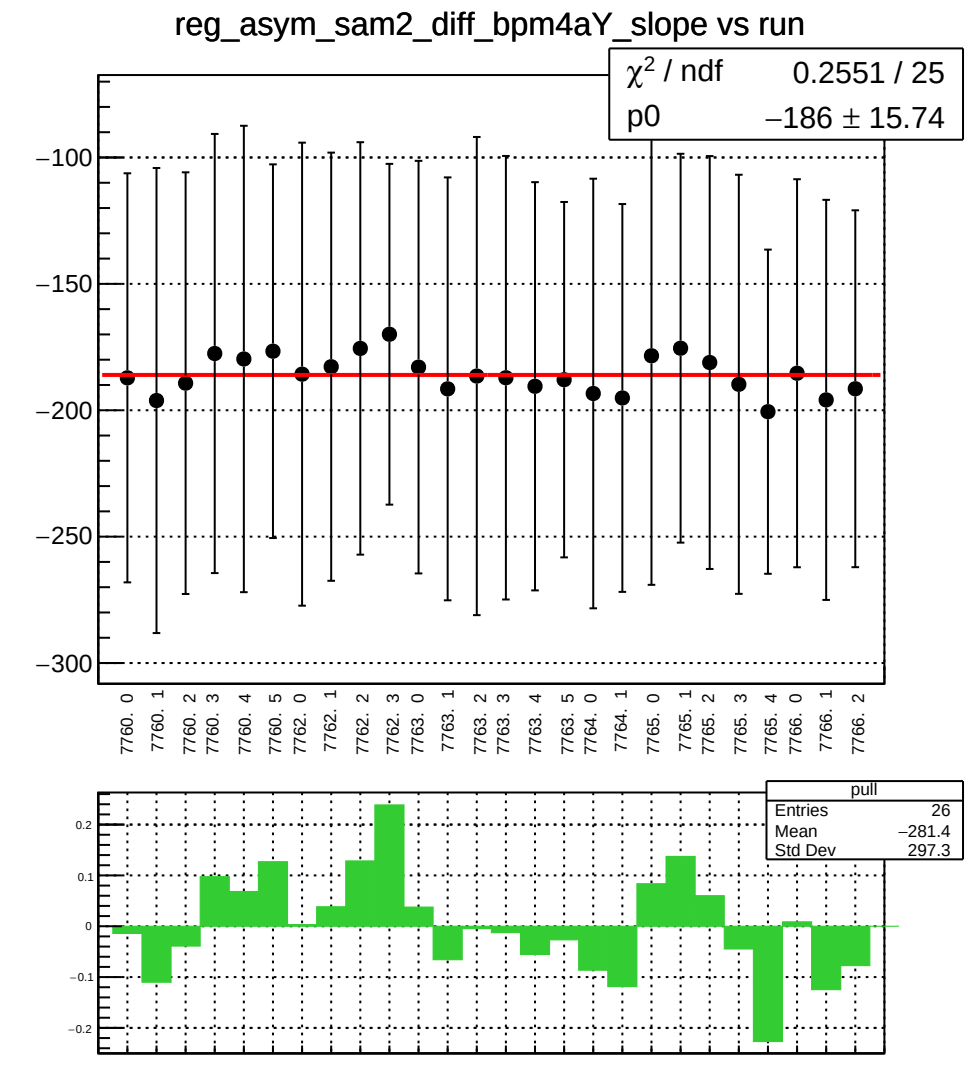

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 4.642 / 25
p0 28.67 ± 1.276
40
35
30
25
20
15
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −464.4
Std Dev 479
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

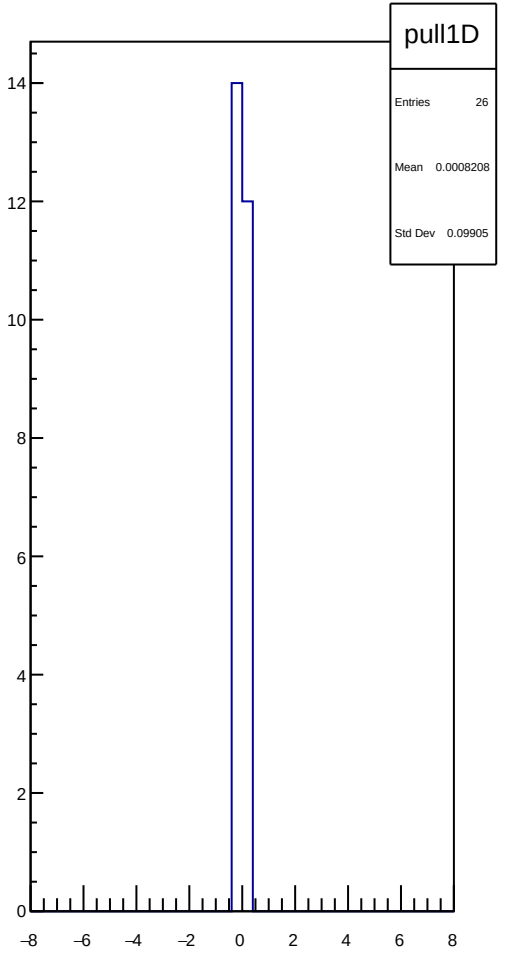

pull1D
Entries 26
Mean −0.002535
Std Dev 0.4225
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

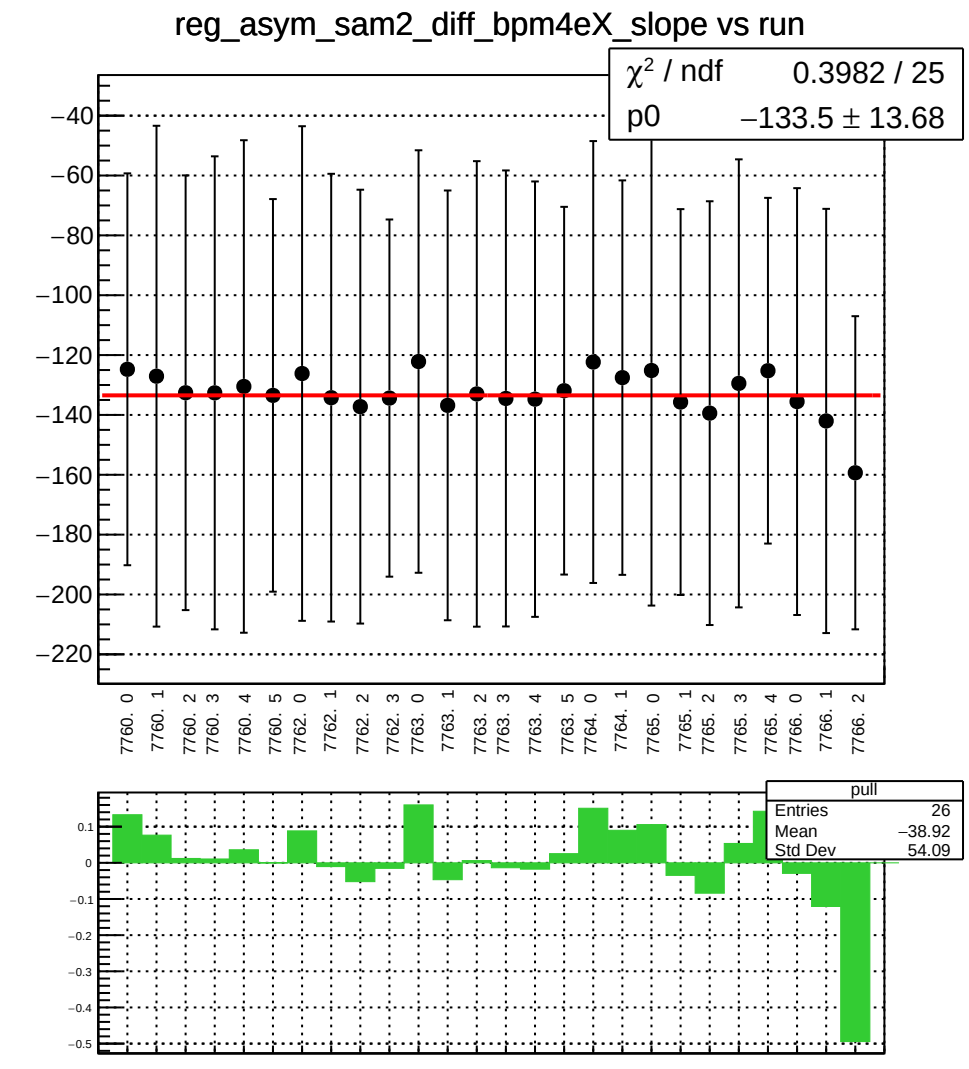

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 2.008 / 25
p0 0.3912 ± 0.03498
0.7
0.6
0.5
0.4
0.3
0.2
0.1
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 52.19
Std Dev 30.63
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 26
Mean 0.004913
Std Dev 0.2779
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

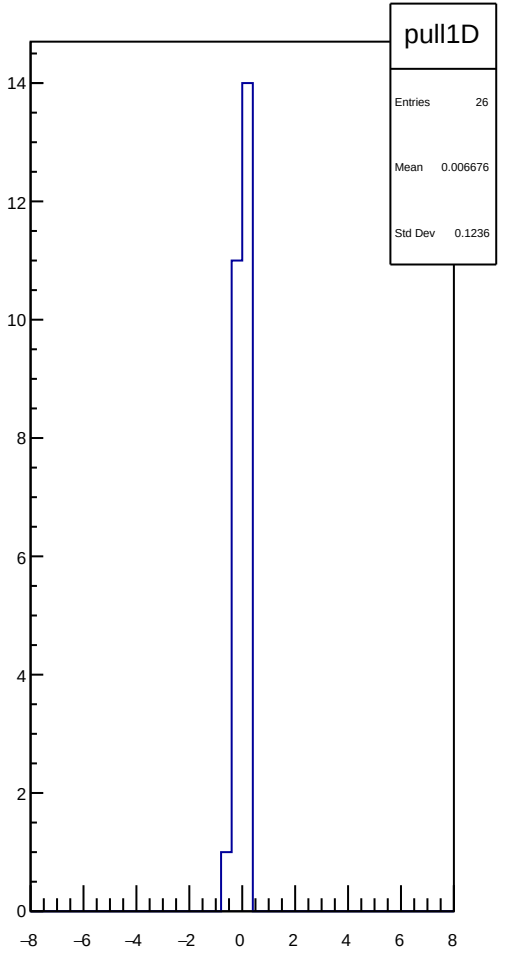

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 0.3407 / 25
p0 −88.06 ± 14.76
0
−50
−100
−150
−200
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −7.729
Std Dev 28.95
0.4
0.3
0.2
0.1
0
−0.1
−0.2

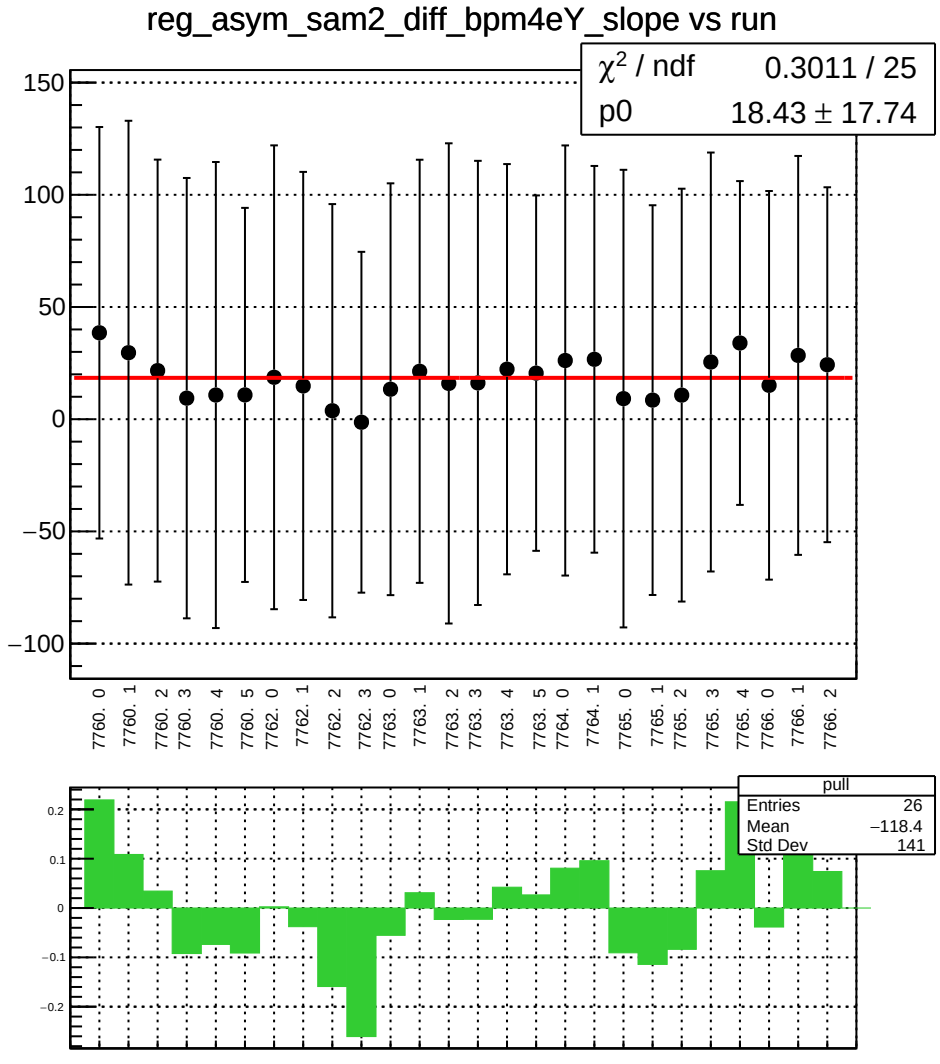

pull1D
Entries 26
Mean −0.005731
Std Dev 0.1143
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

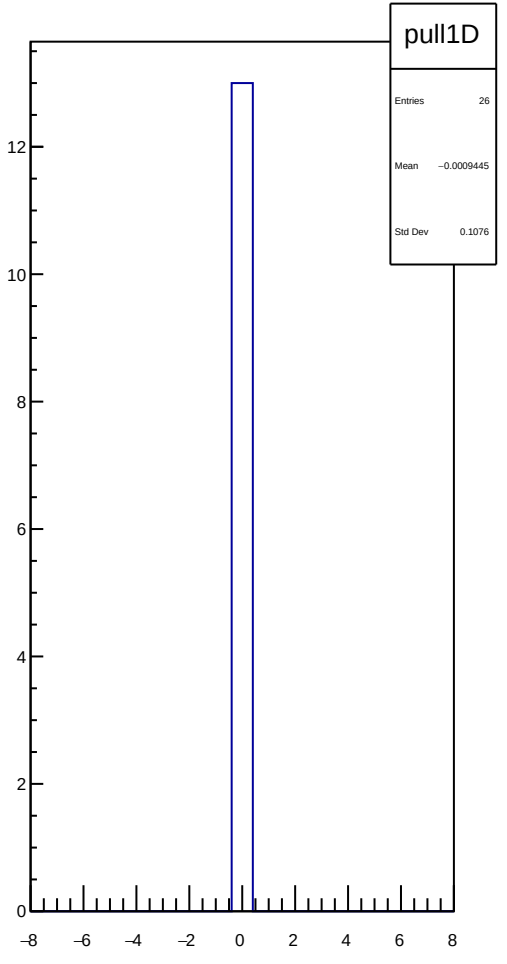

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 0.2551 / 25
p0 −186 ± 15.74
−100
−150
−200
−250
−300
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −281.4
Std Dev 297.3
0.2
0.1
0
−0.1
−0.2

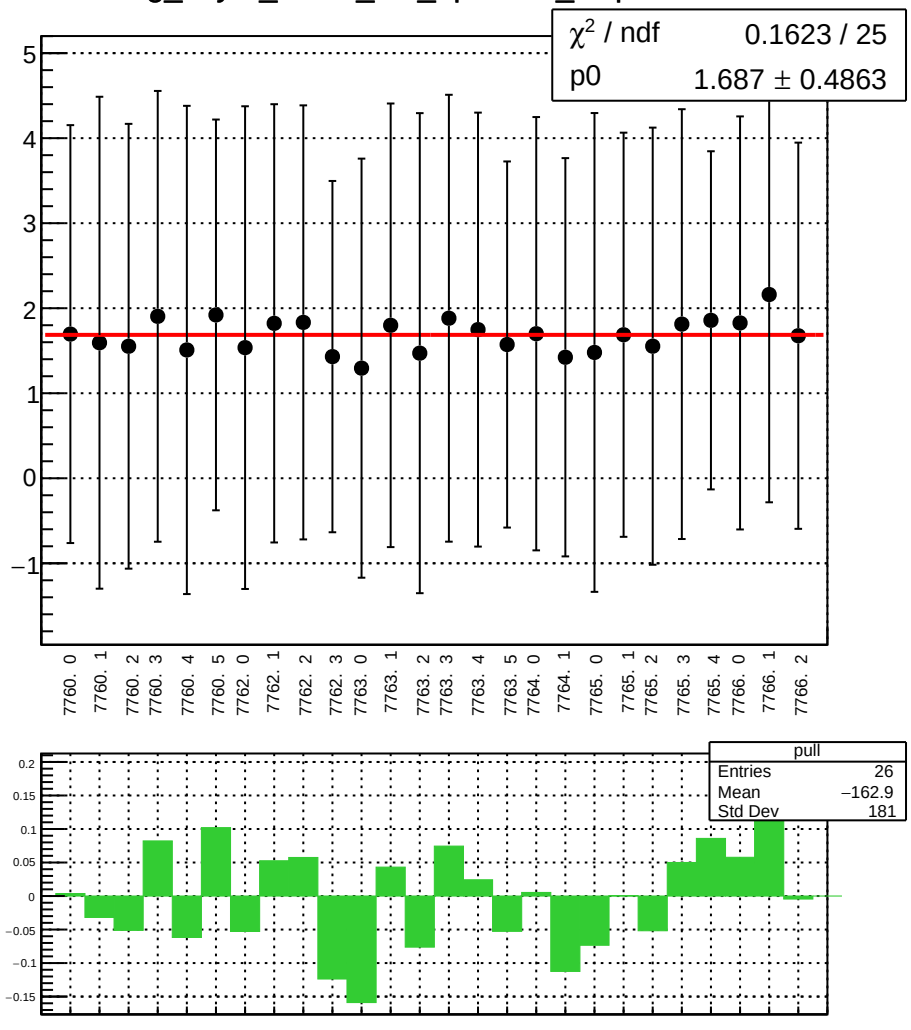

pull1D
Entries 26
Mean 0.0008208
Std Dev 0.09905
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

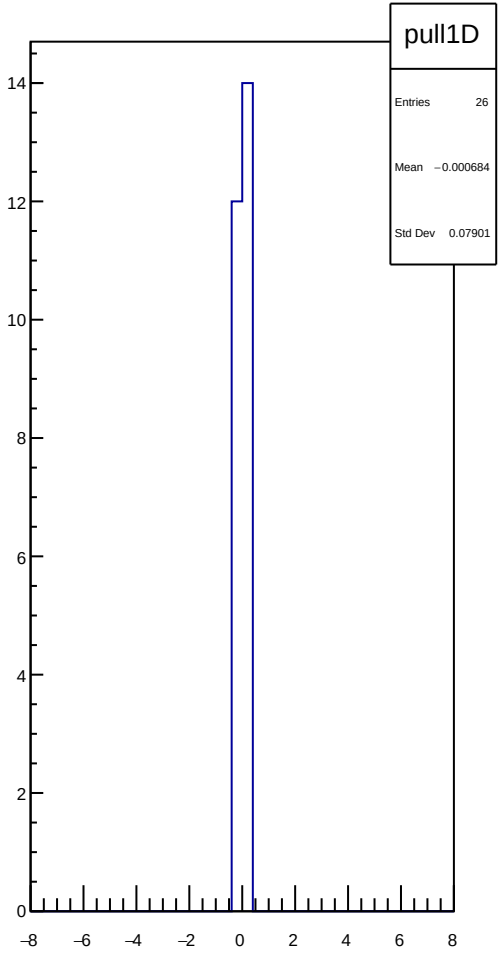

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 0.3982 / 25
p0 −133.5 ± 13.68
−40
−60
−80
−100
−120
−140
−160
−180
−200
−220
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −38.92
Std Dev 54.09
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5

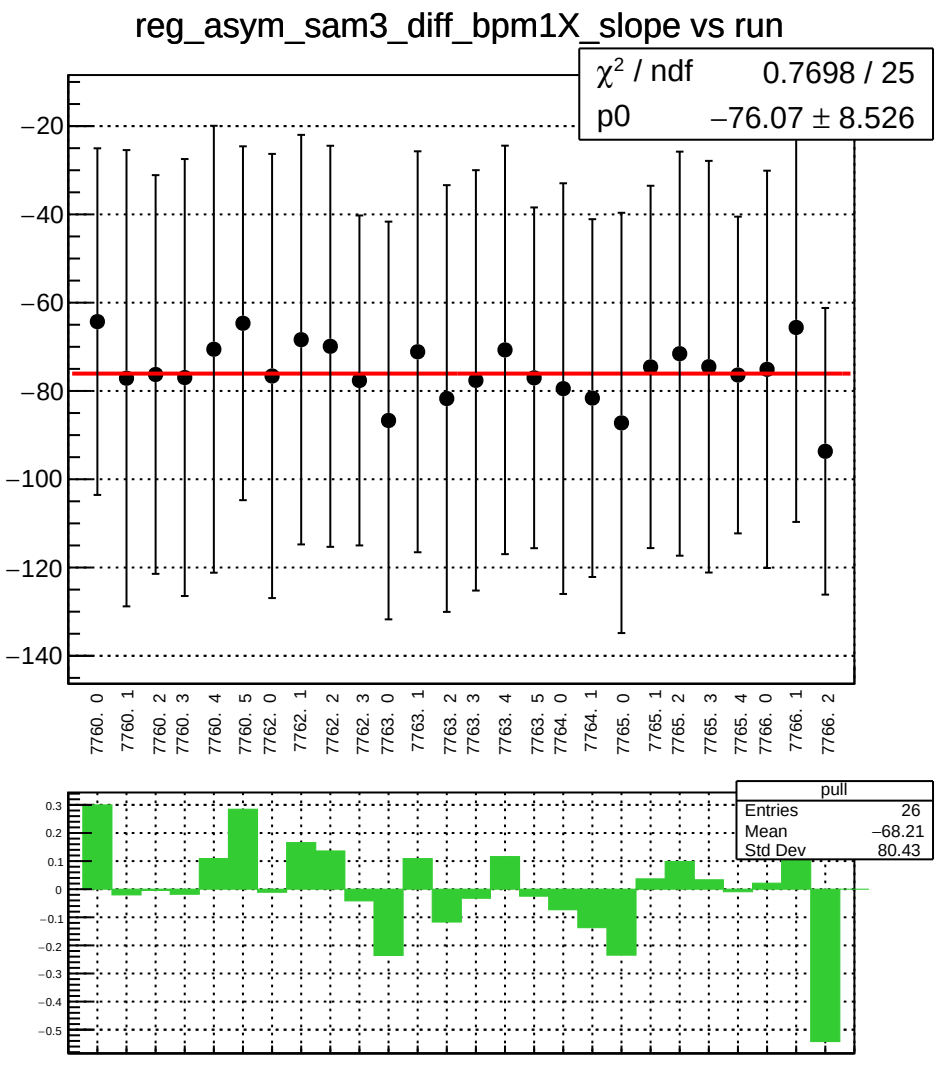

pull1D
Entries 26
Mean 0.006676
Std Dev 0.1236
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

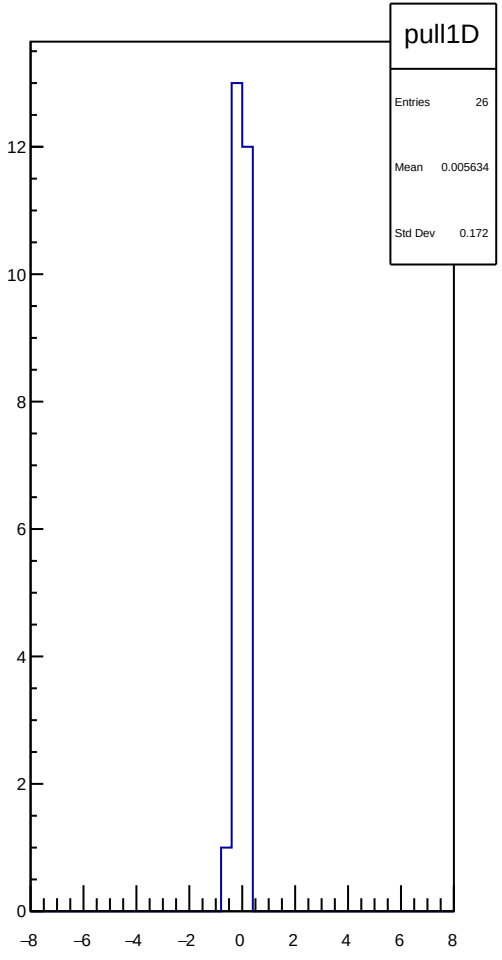

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 0.3011 / 25
p0 18.43 ± 17.74
150
100
50
0
−50
−100
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −118.4
Std Dev 141
0.2
0.1
0
−0.1
−0.2

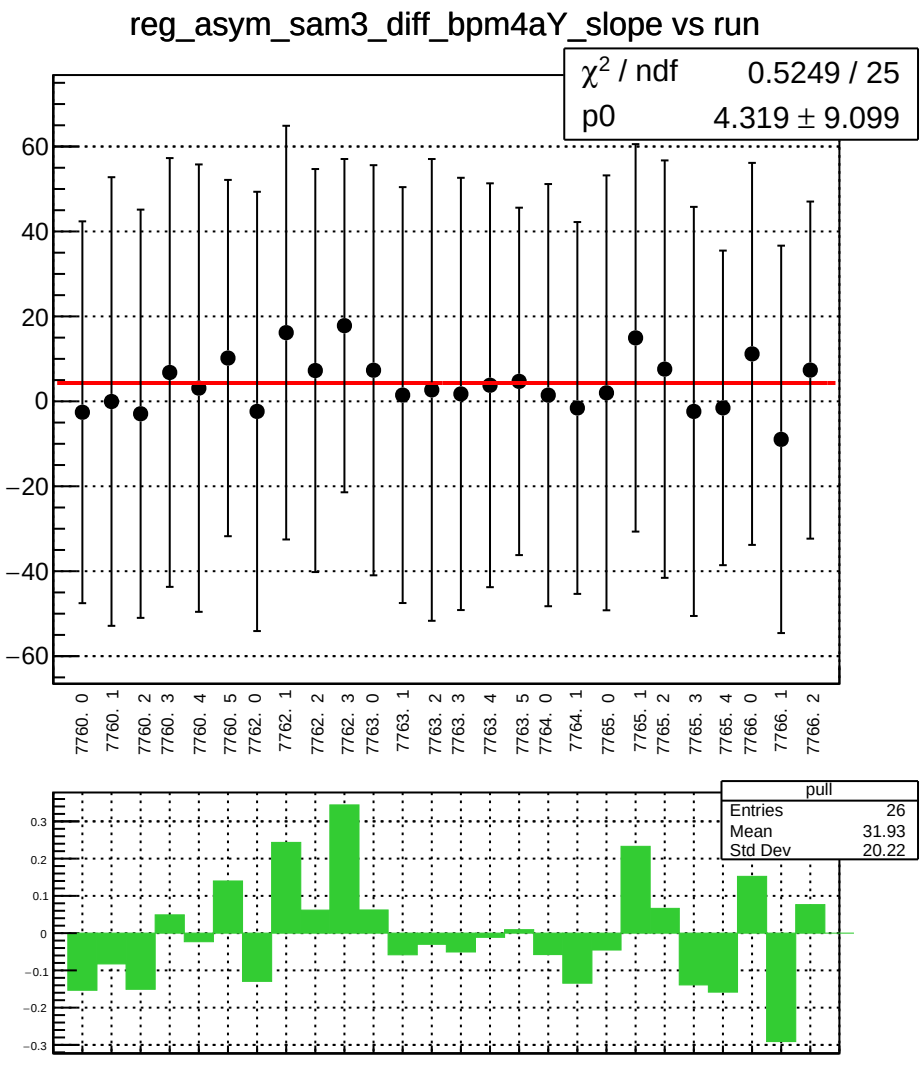

pull1D
Entries 26
Mean −0.0009445
Std Dev 0.1076
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

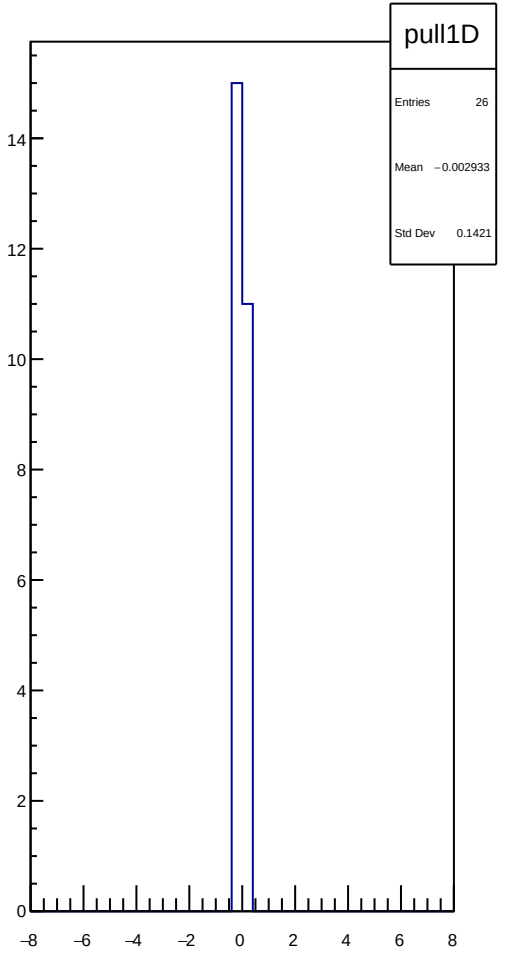

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 0.1623 / 25
p0 1.687 ± 0.4863
pull
Entries 26
Mean −162.9
Std Dev 181
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

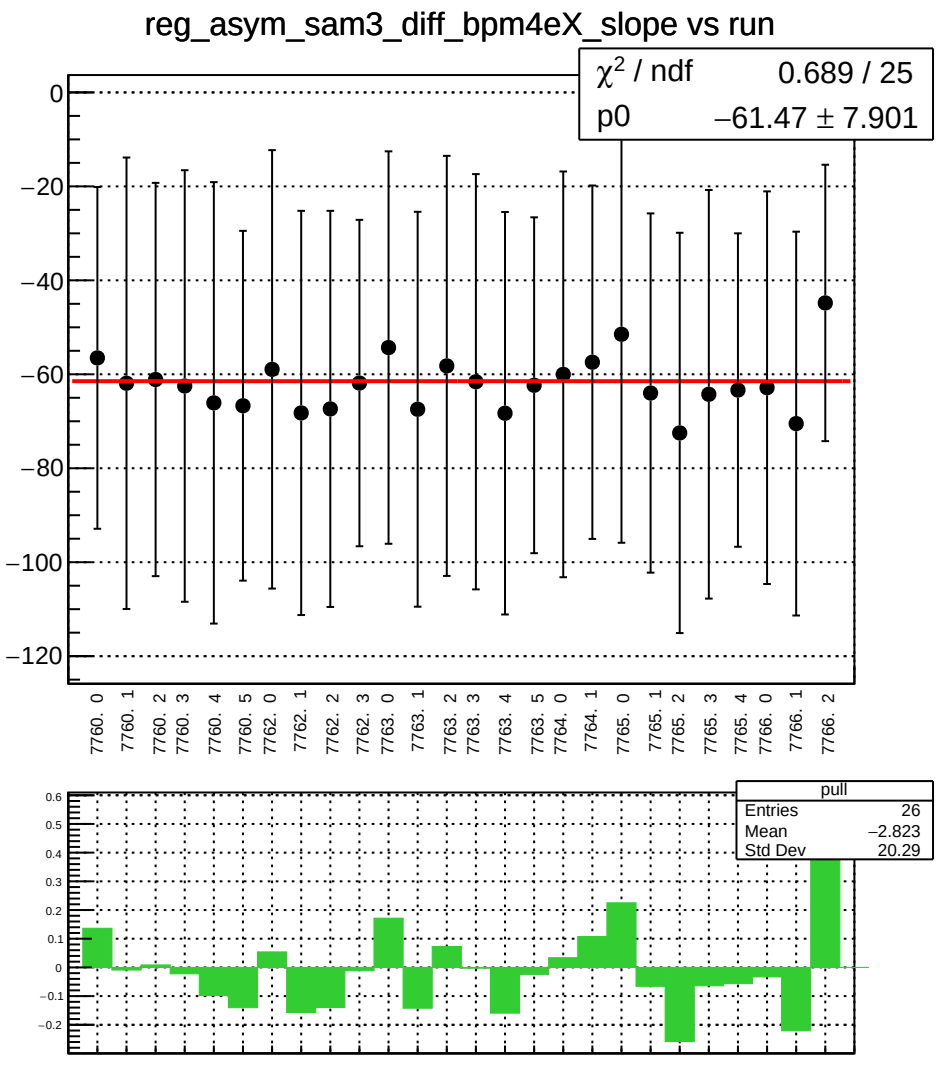

pull1D
Entries 26
Mean −0.000684
Std Dev 0.07901

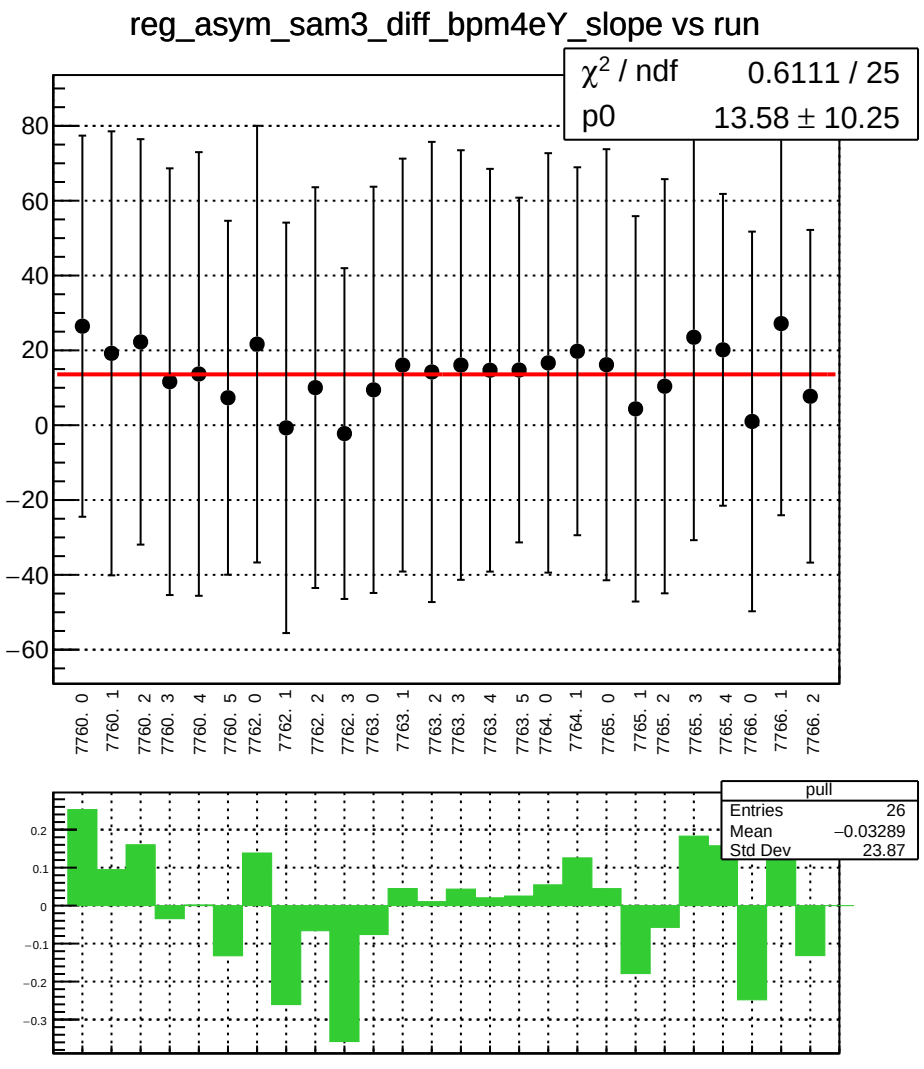

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 0.7698 / 25
p0 −76.07 ± 8.526
−20
−40
−60
−80
−100
−120
−140
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −68.21
Std Dev 80.43
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5

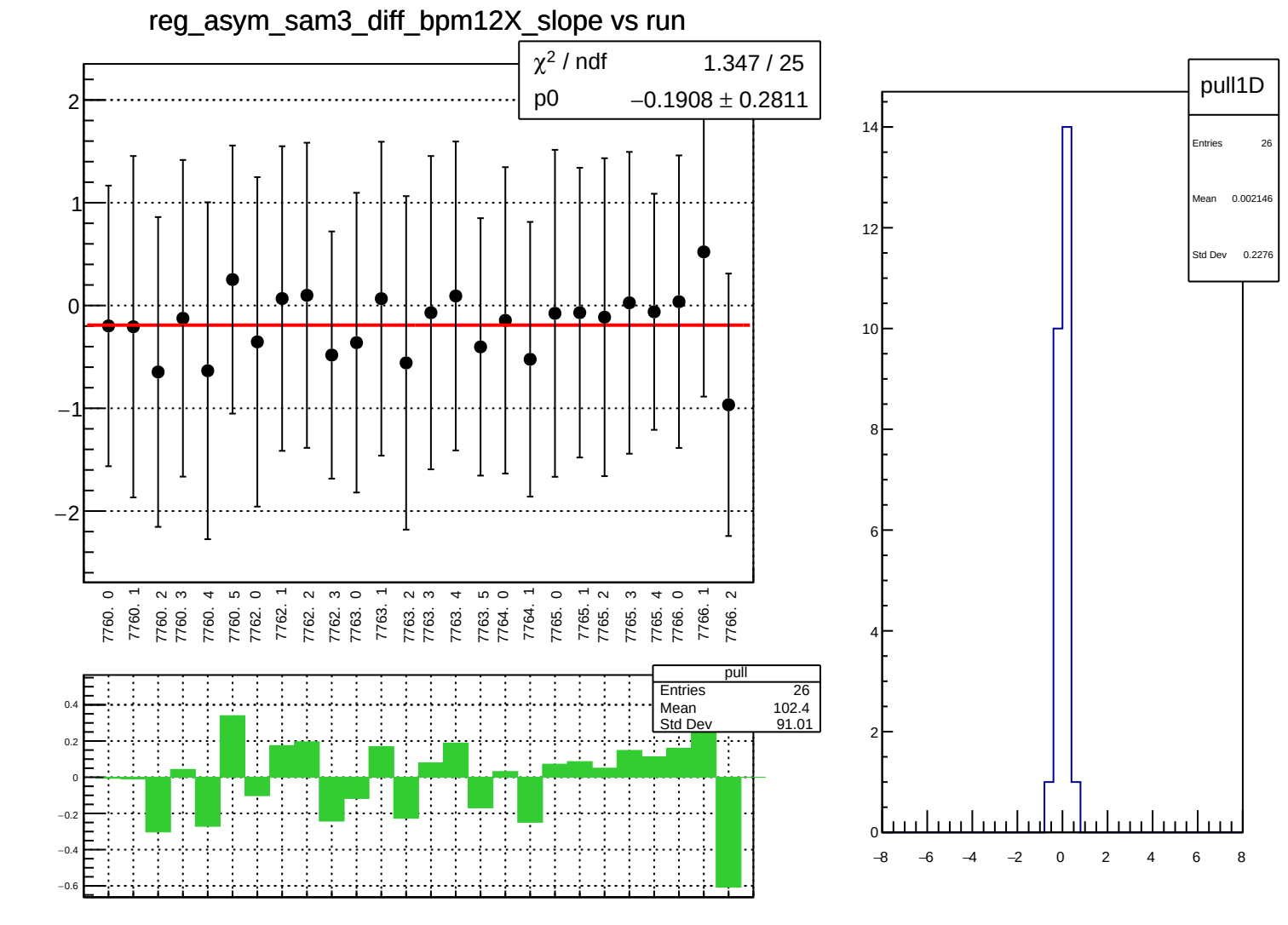

pull1D
Entries 26
Mean 0.005634
Std Dev 0.172
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

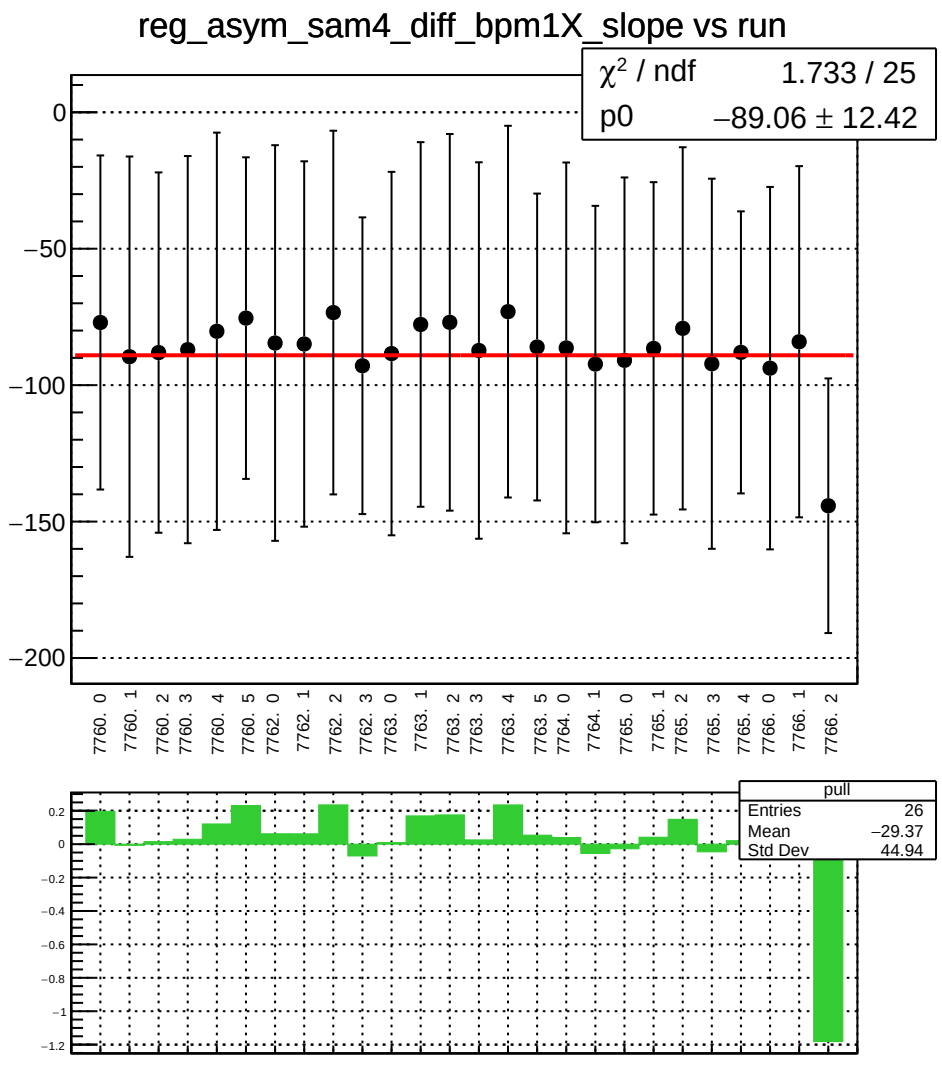

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 0.5249 / 25
p0 4.319 ± 9.099
60
40
20
0
−20
−40
−60
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 31.93
Std Dev 20.22
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

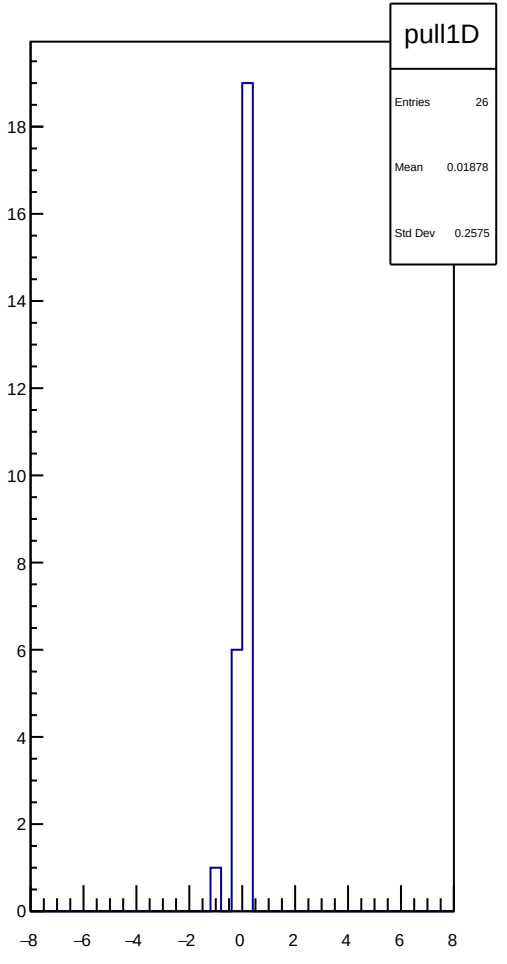

pull1D
Entries 26
Mean −0.002933
Std Dev 0.1421
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

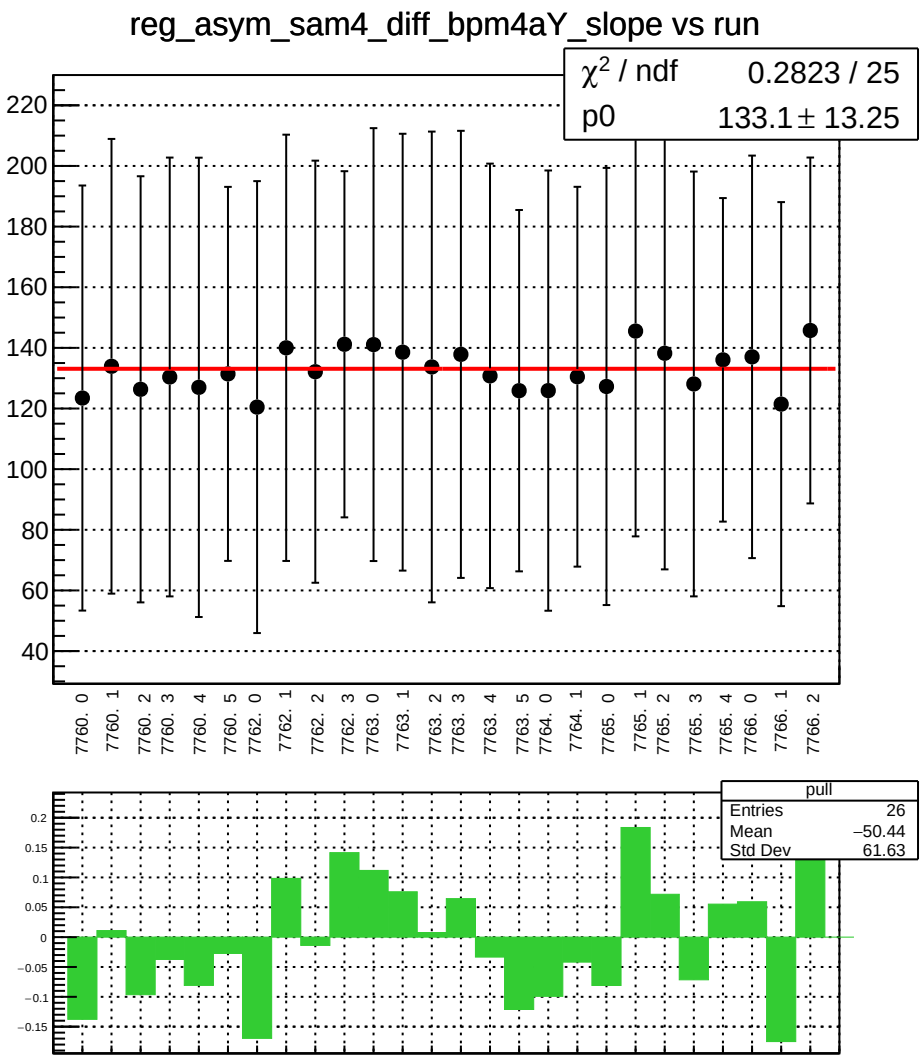

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 0.689 / 25
p0 −61.47 ± 7.901
0
−20
−40
−60
−80
−100
−120
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −2.823
Std Dev 20.29
0.6
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 26
Mean −0.008803
Std Dev 0.1626
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

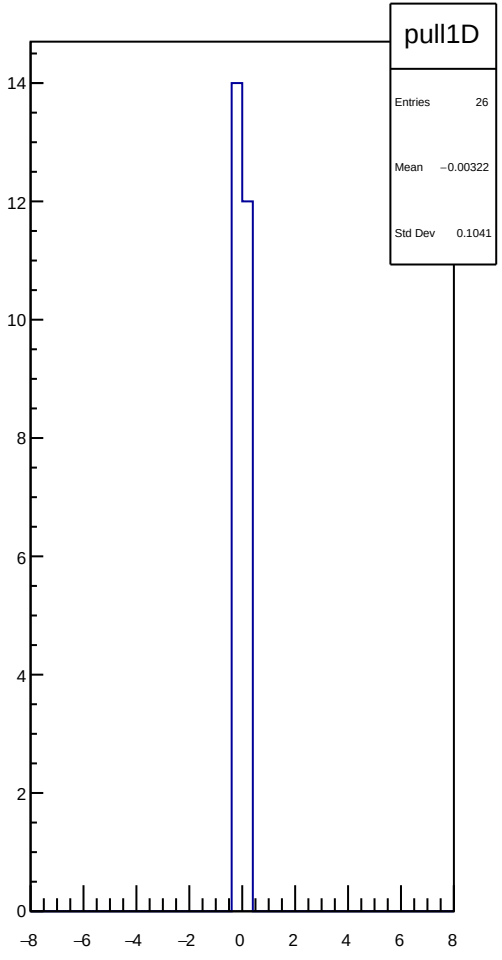

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 0.6111 / 25
p0 13.58 ± 10.25
80
60
40
20
0
−20
−40
−60
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −0.03289
Std Dev 23.87
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 26
Mean 0.003109
Std Dev 0.1533
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

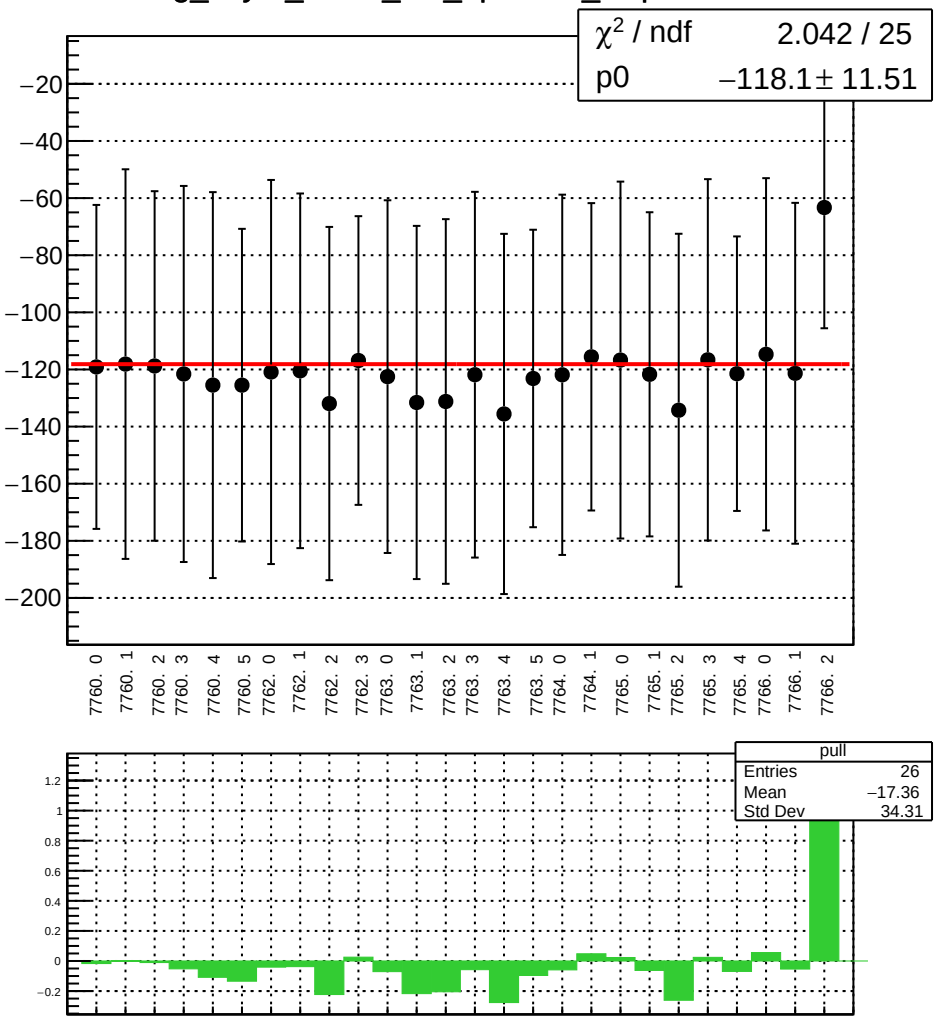

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 1.347 / 25
p0 −0.1908 ± 0.2811
2
1
0
−1
−2
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 102.4
Std Dev 91.01
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 26
Mean 0.002146
Std Dev 0.2276
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

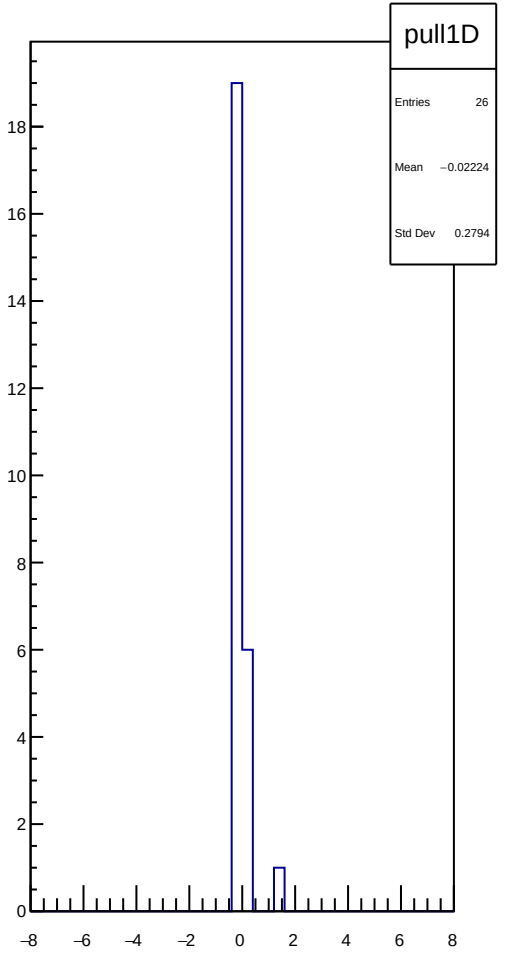

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 1.733 / 25
p0 −89.06 ± 12.42
0
−50
−100
−150
−200
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −29.37
Std Dev 44.94
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

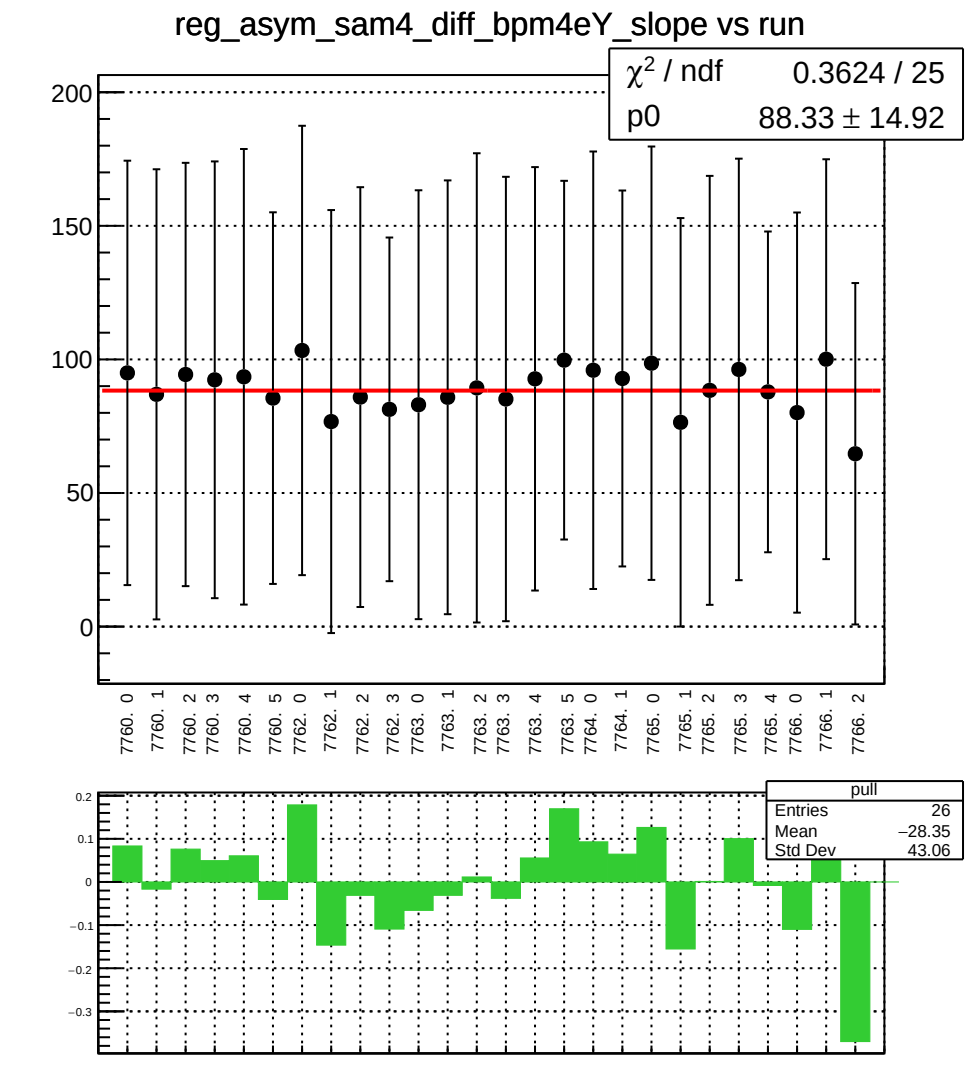

pull1D
Entries 26
Mean 0.01878
Std Dev 0.2575
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

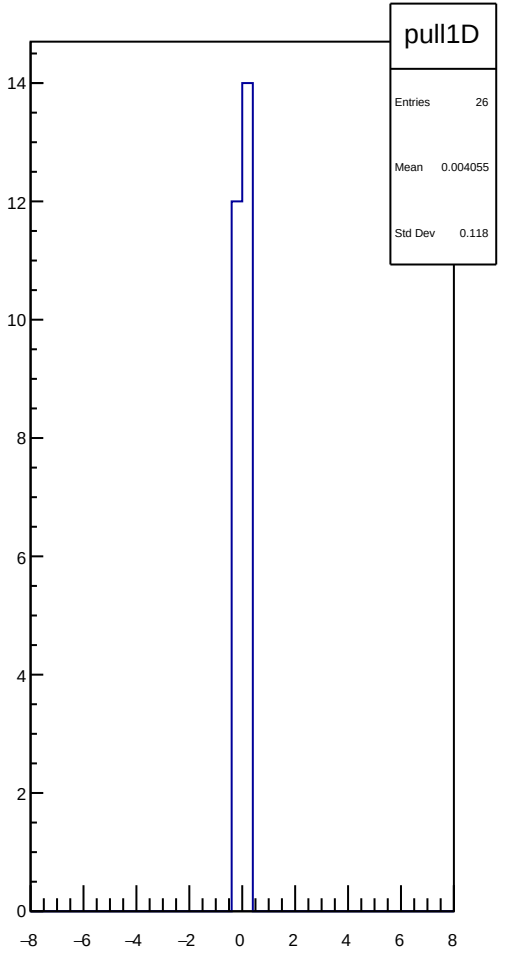

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 0.2823 / 25
p0 133.1 ± 13.25
220
200
180
160
140
120
100
80
60
40
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −50.44
Std Dev 61.63
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15

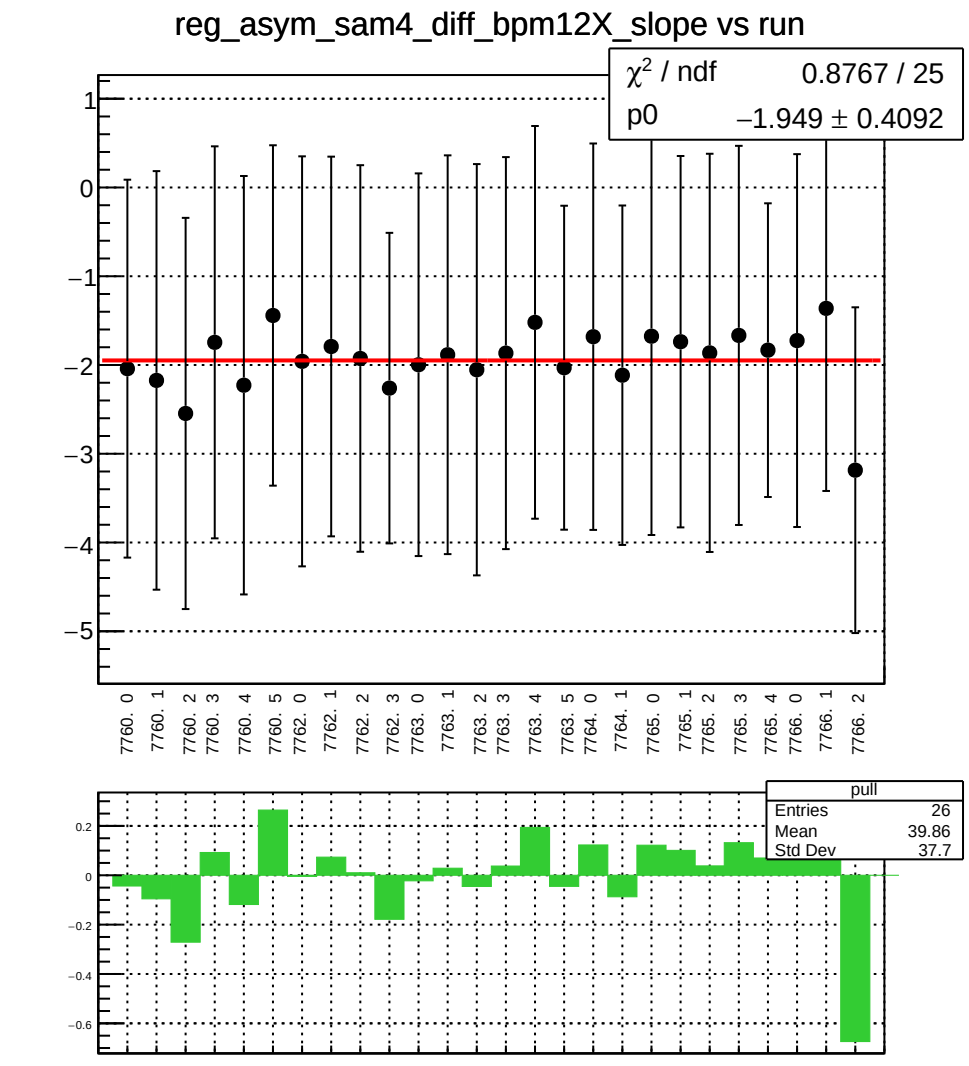

pull1D
Entries 26
Mean −0.00322
Std Dev 0.1041
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

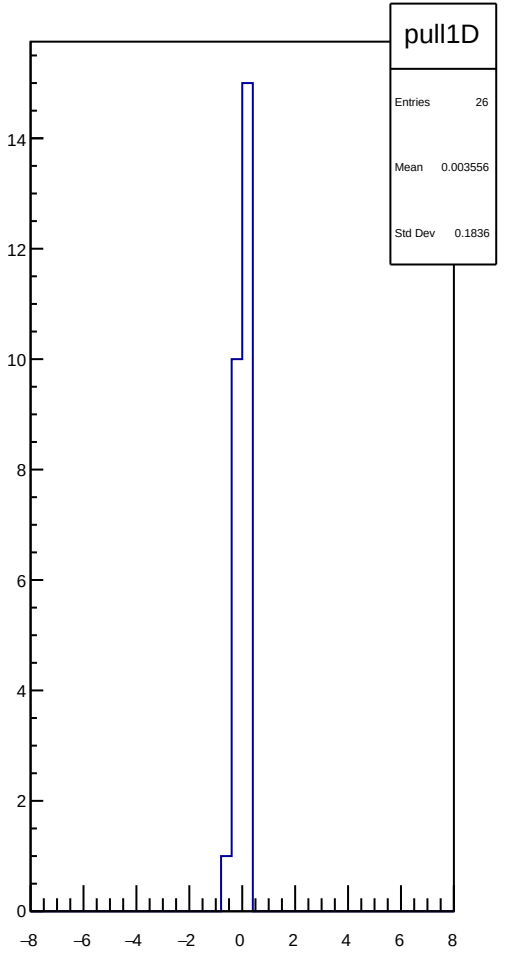

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 2.042 / 25
p0 −118.1 ± 11.51
−20
−40
−60
−80
−100
−120
−140
−160
−180
−200
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −17.36
Std Dev 34.31
1.2
1
0.8
0.6
0.4
0.2
0
−0.2

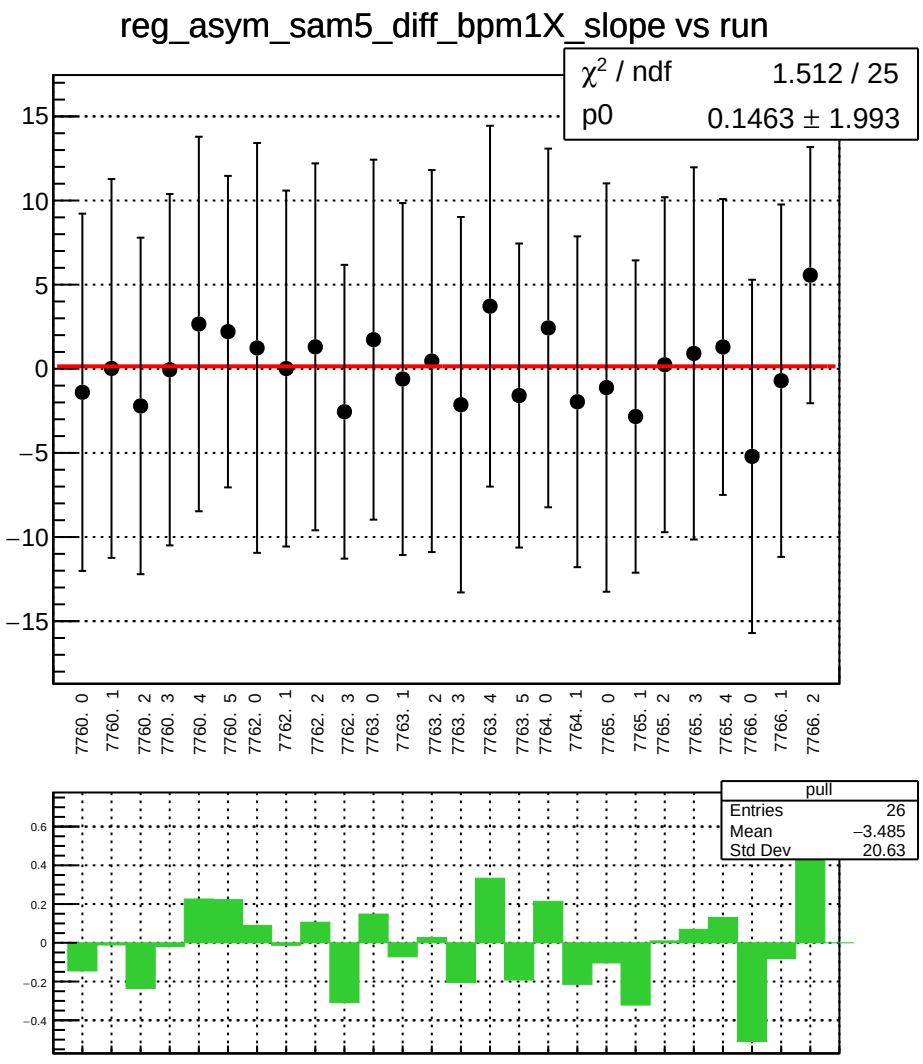

pull1D
Entries 26
Mean −0.02224
Std Dev 0.2794
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

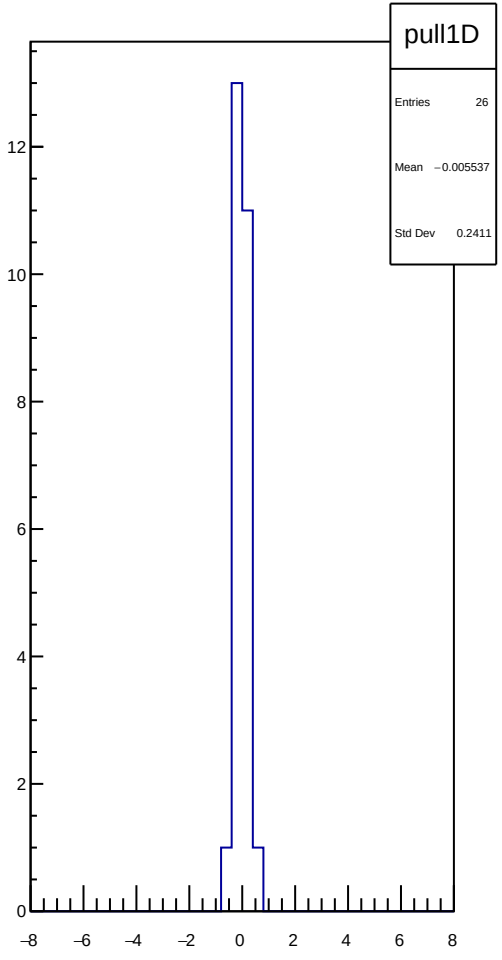

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 0.3624 / 25
p0 88.33 ± 14.92
200
150
100
50
0
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −28.35
Std Dev 43.06
0.2
0.1
0
−0.1
−0.2
−0.3

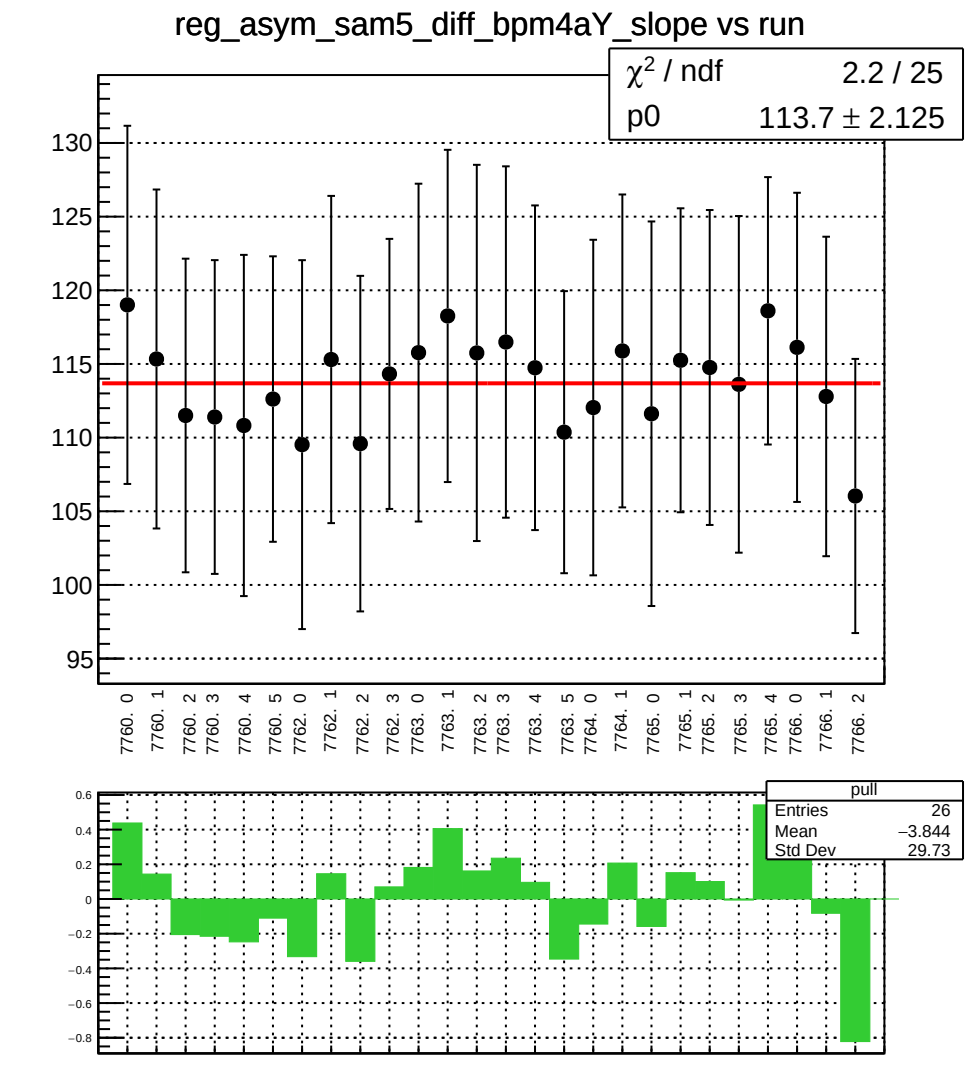

pull1D
Entries 26
Mean 0.004055
Std Dev 0.118
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

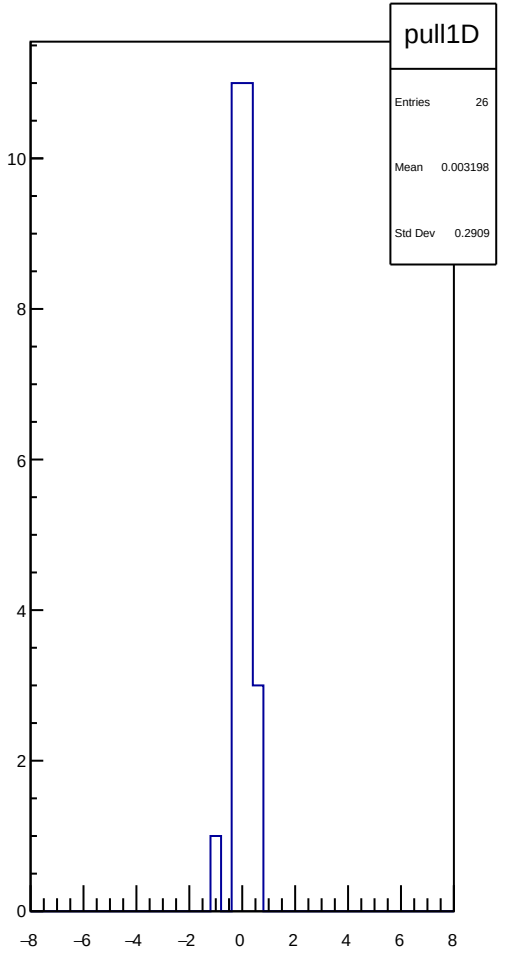

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 0.8767 / 25
p0 −1.949 ± 0.4092
1
0
−1
−2
−3
−4
−5
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 39.86
Std Dev 37.7
0.2
0
−0.2
−0.4
−0.6

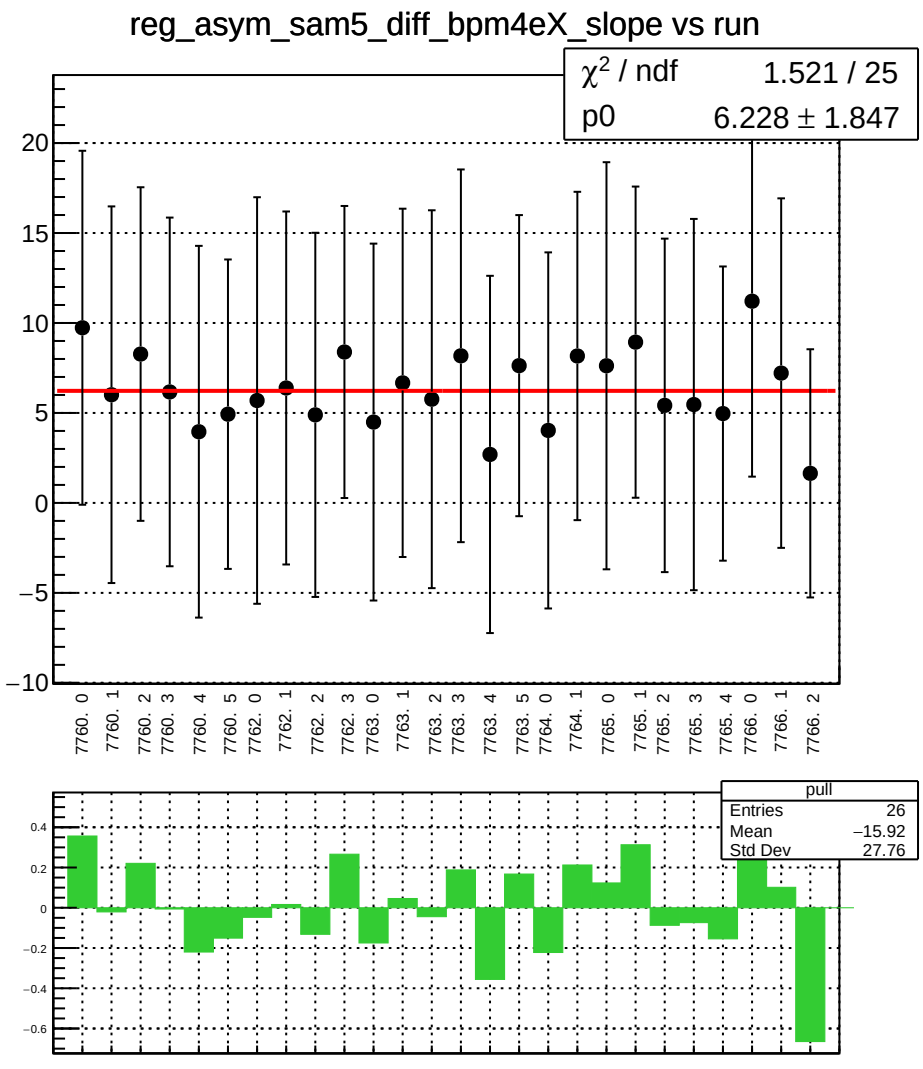

pull1D
Entries 26
Mean 0.003556
Std Dev 0.1836
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

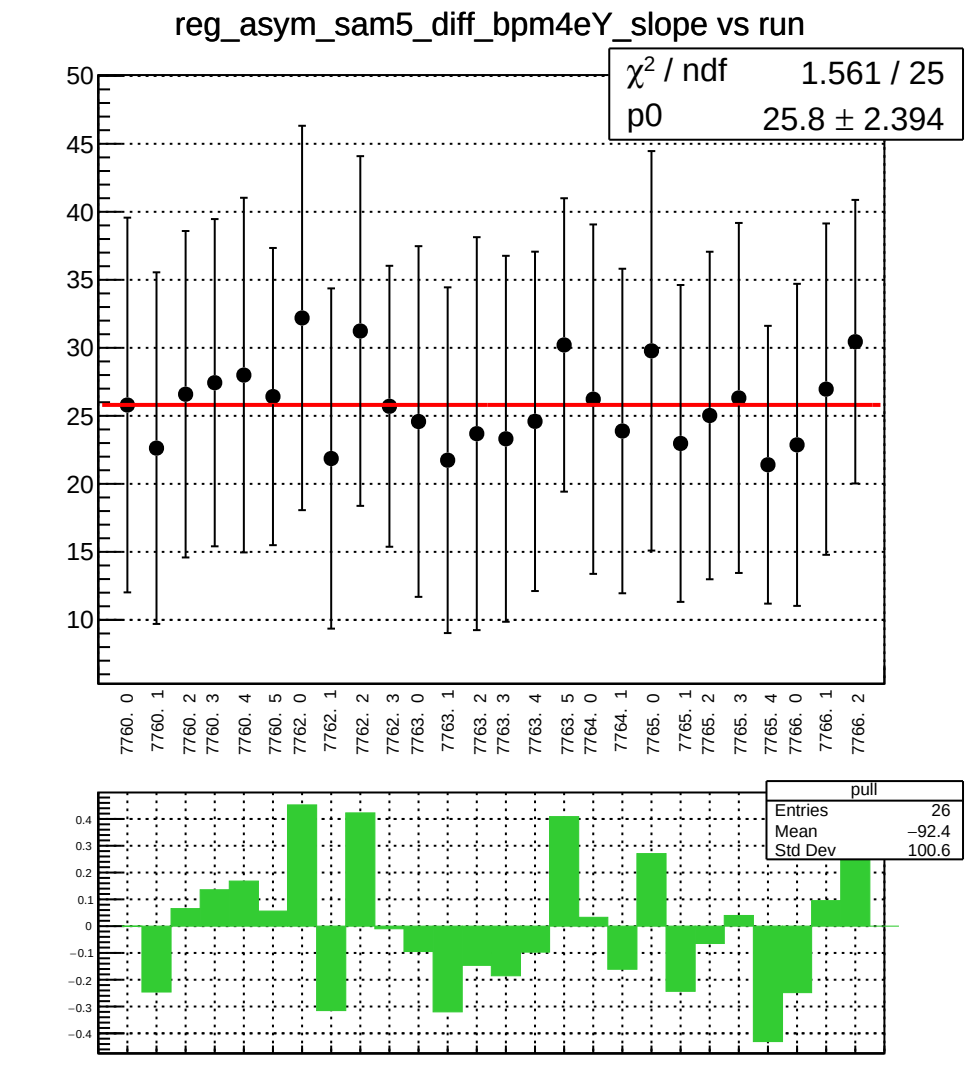

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 1.512 / 25
p0 0.1463 ± 1.993
15
10
5
0
−5
−10
−15
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −3.485
Std Dev 20.63
0.6
0.4
0.2
0
−0.2
−0.4

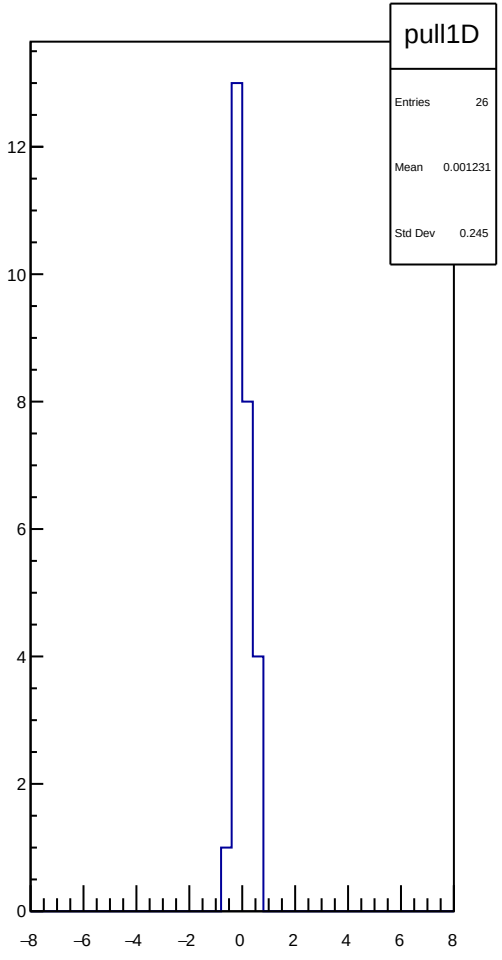

pull1D
Entries 26
Mean −0.005537
Std Dev 0.2411
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

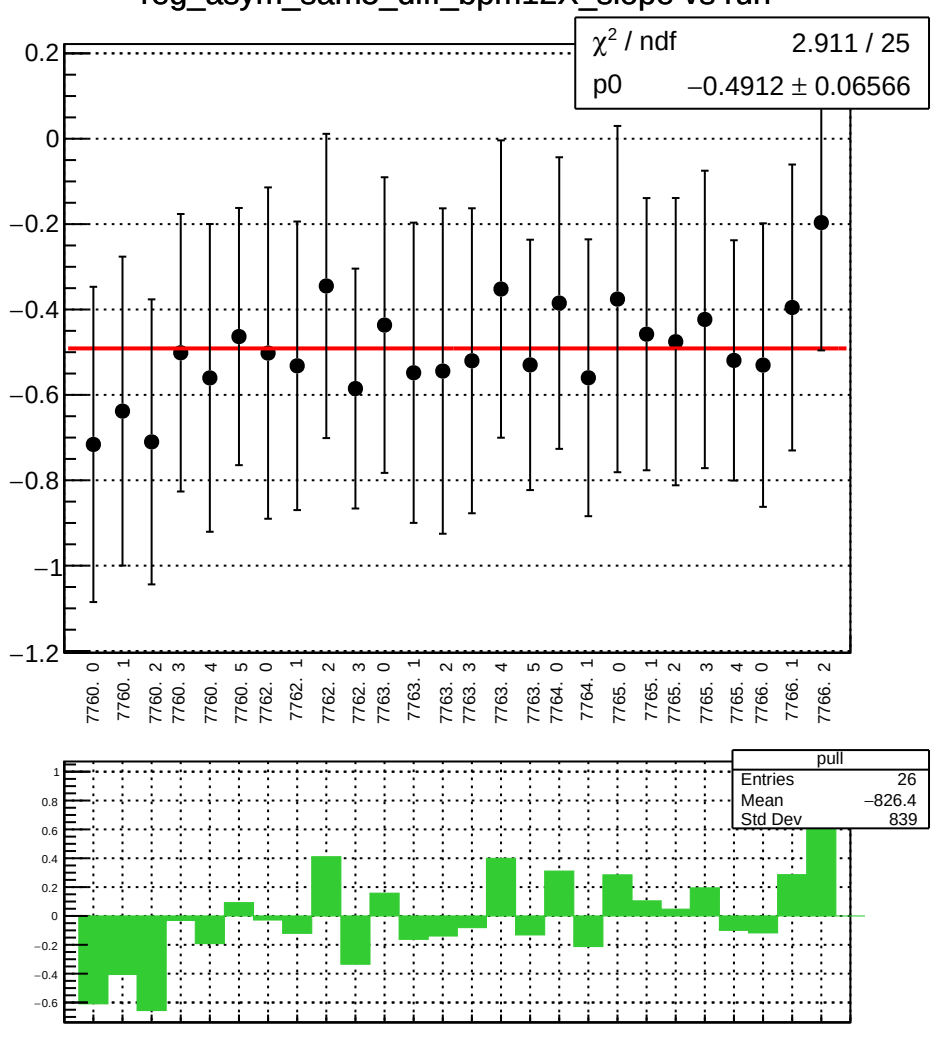

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 2.2 / 25
p0 113.7 ± 2.125
130
125
120
115
110
105
100
95
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −3.844
Std Dev 29.73
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

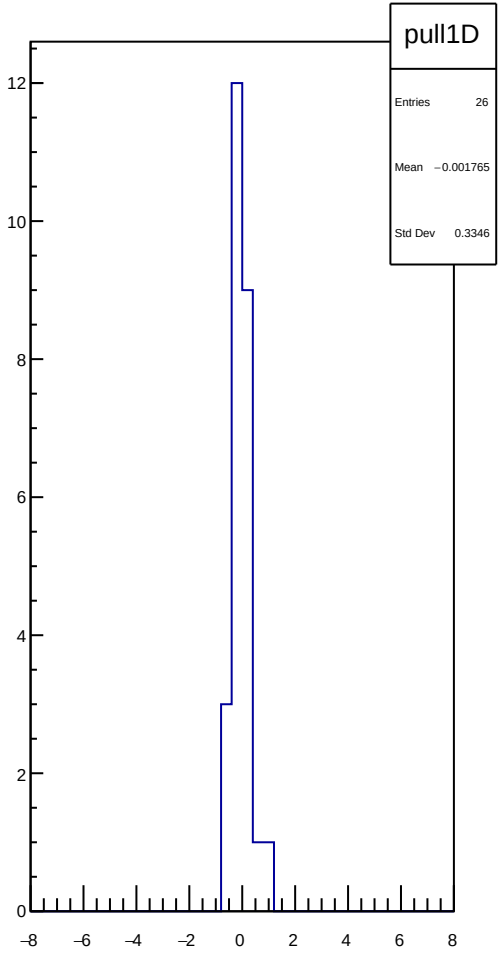

pull1D
Entries 26
Mean 0.003198
Std Dev 0.2909
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

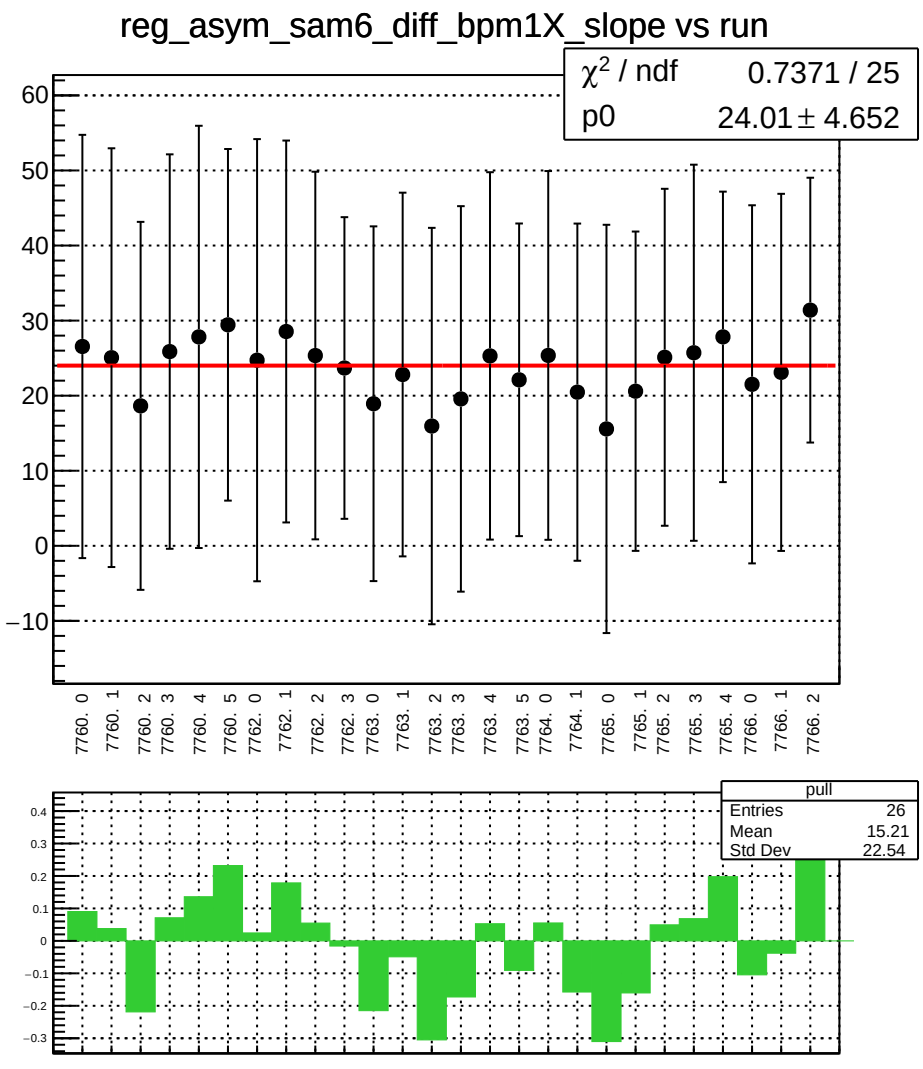

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 1.521 / 25
p0 6.228 ± 1.847
20
15
10
5
0
−5
−10
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −15.92
Std Dev 27.76
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 26
Mean 0.006464
Std Dev 0.2418
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

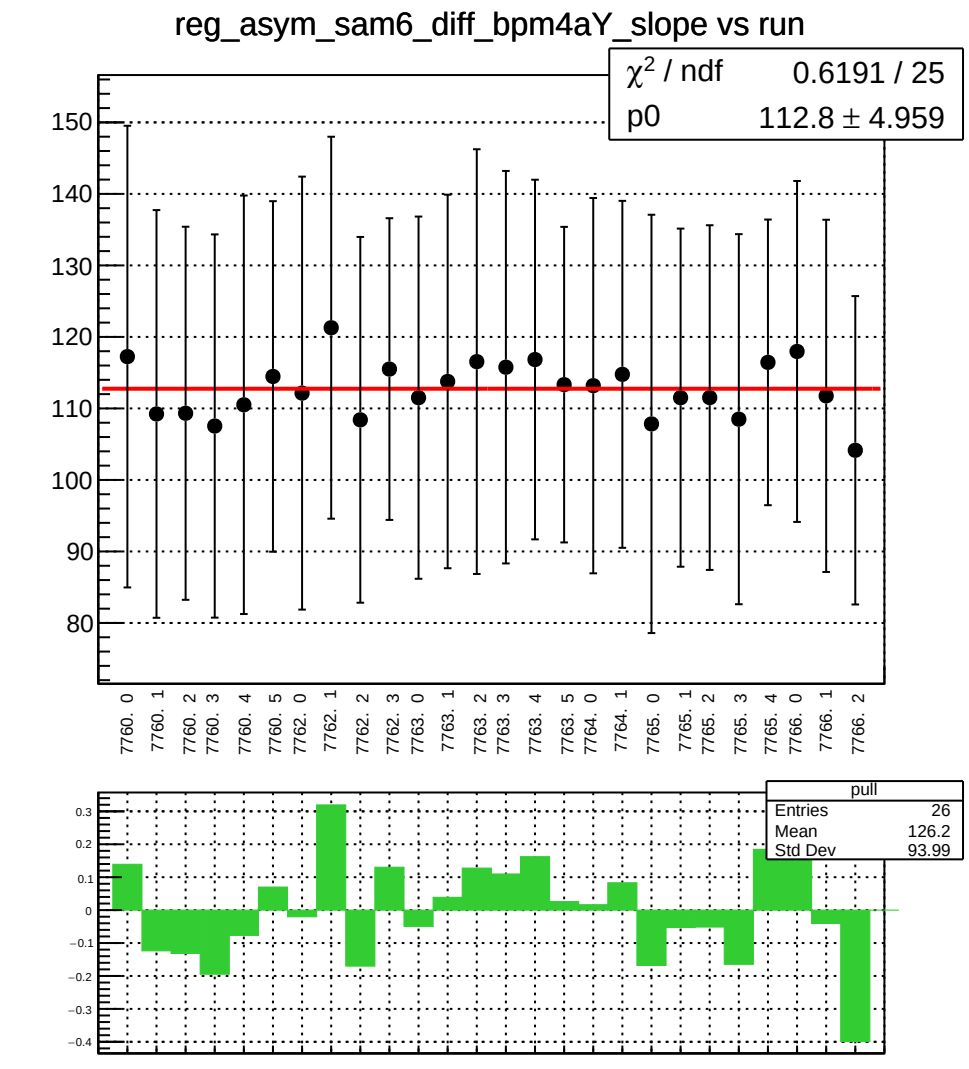

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 1.561 / 25
p0 25.8 ± 2.394
50
45
40
35
30
25
20
15
10
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −92.4
Std Dev 100.6
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

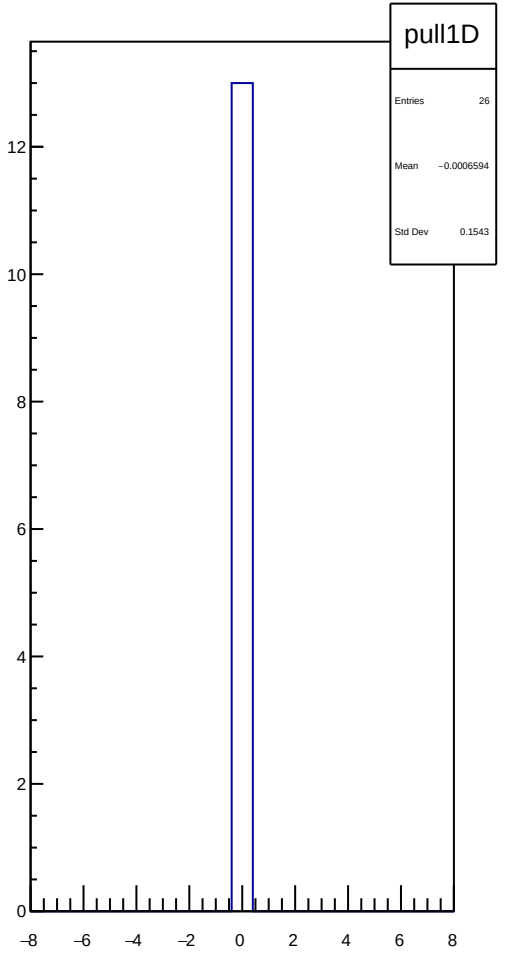

pull1D
Entries 26
Mean 0.001231
Std Dev 0.245
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

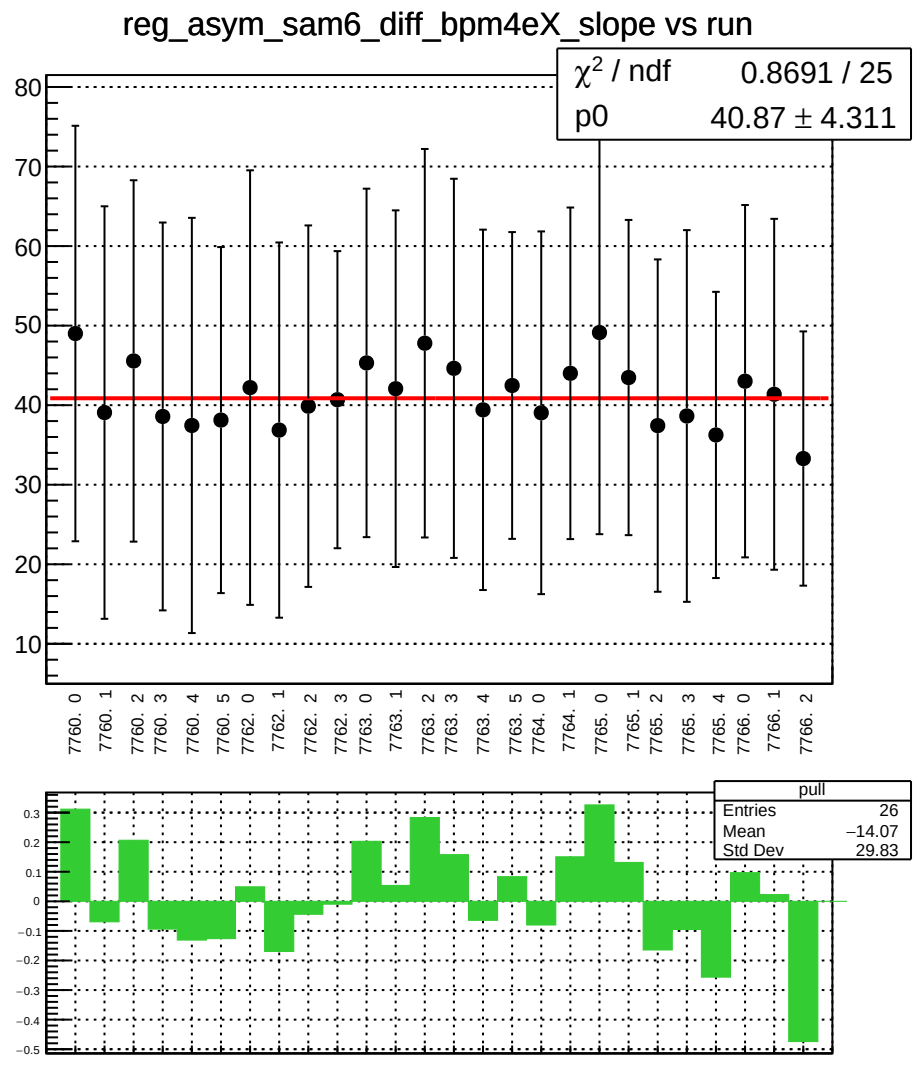

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 2.911 / 25
p0 −0.4912 ± 0.06566
pull
Entries 26
Mean −826.4
Std Dev 839

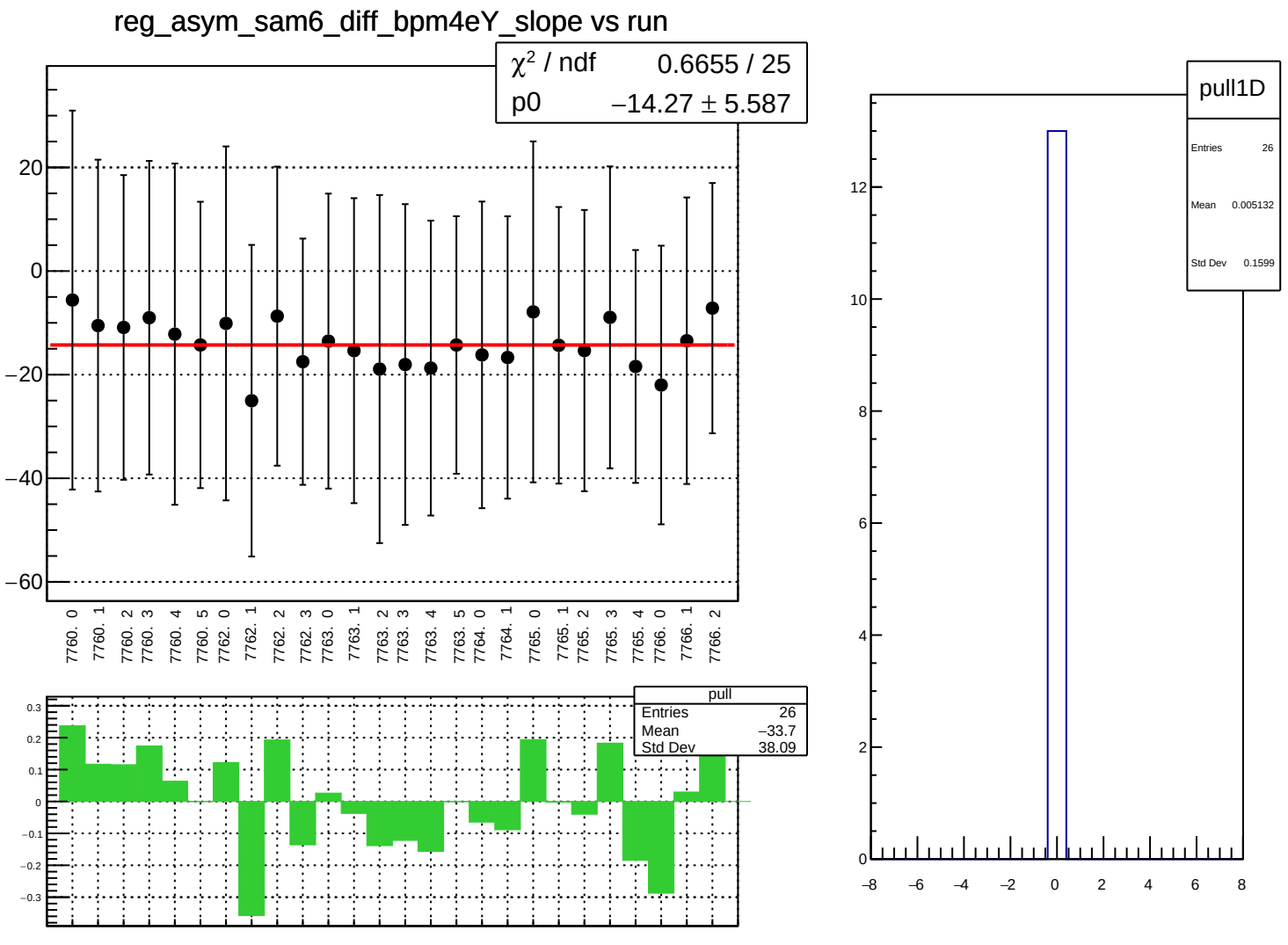

pull1D
Entries 26
Mean −0.001765
Std Dev 0.3346

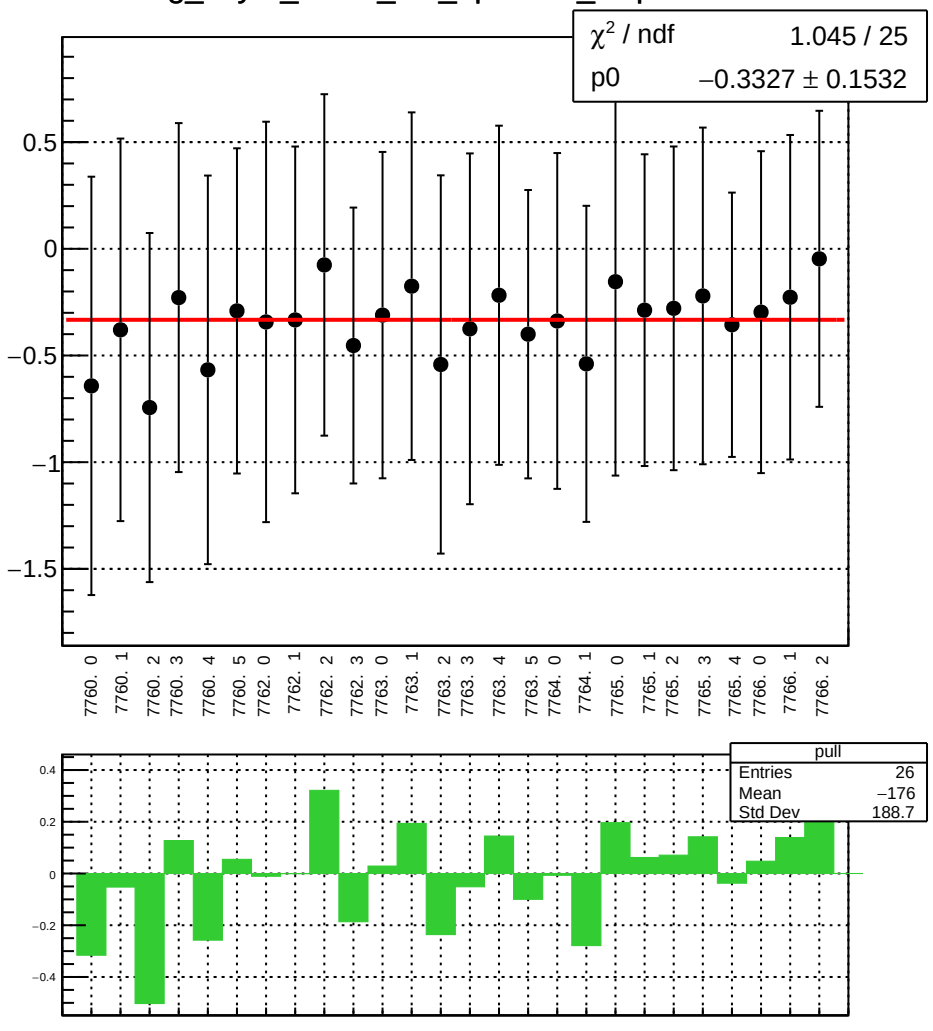

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 0.7371 / 25
p0 24.01 ± 4.652
60
50
40
30
20
10
0
−10
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 15.21
Std Dev 22.54
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 26
Mean −0.006533
Std Dev 0.1682
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

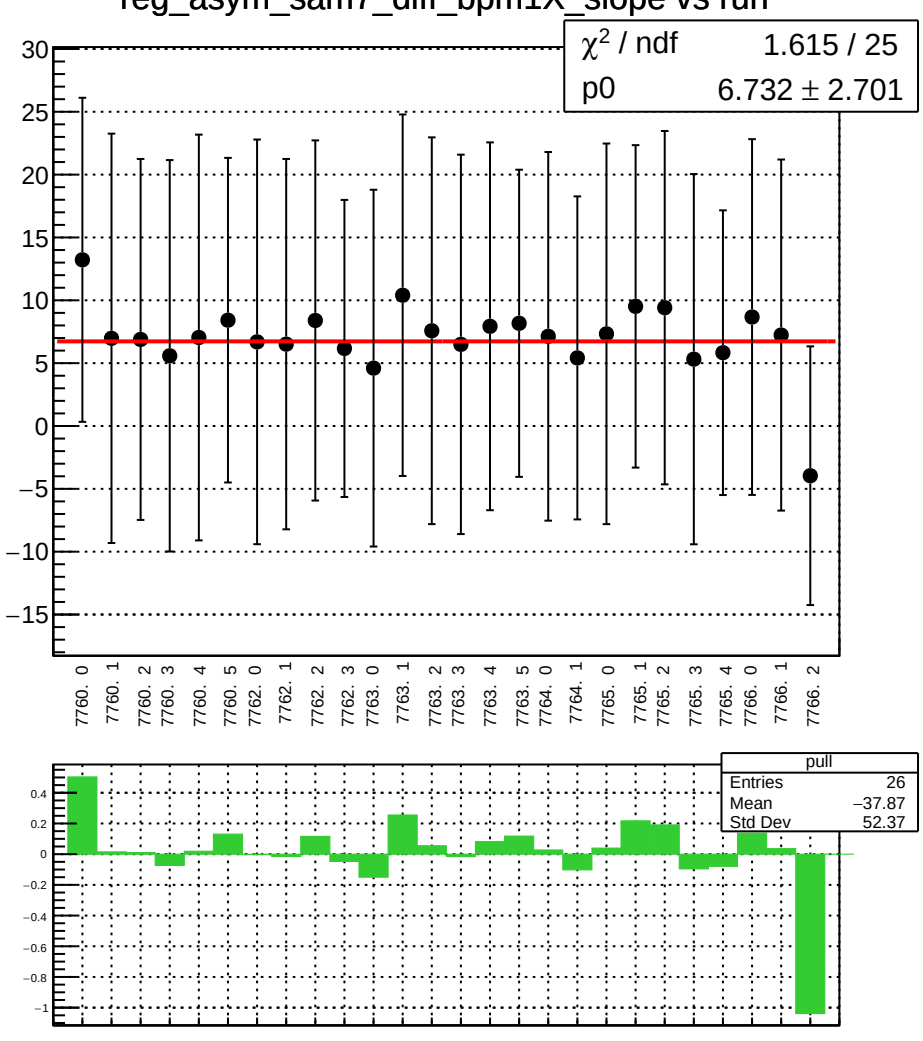

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 0.6191 / 25
p0 112.8 ± 4.959
150
140
130
120
110
100
90
80
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 126.2
Std Dev 93.99
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

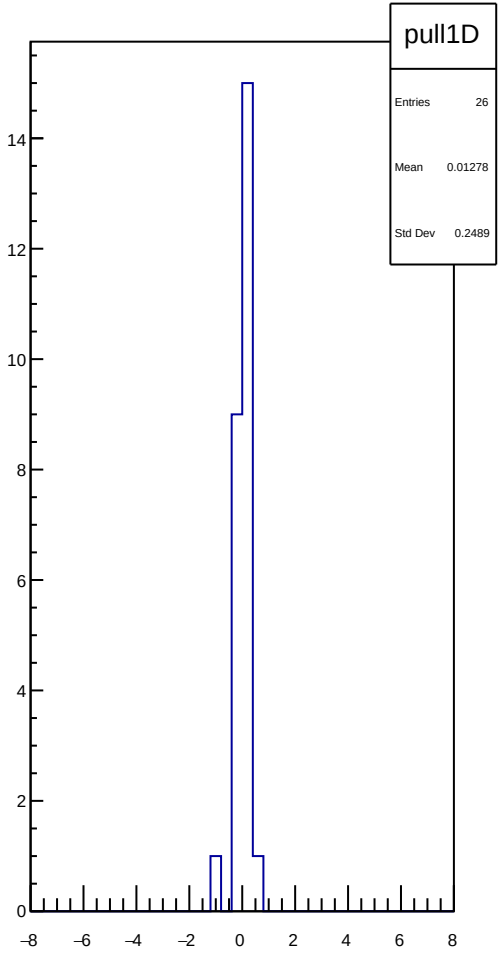

pull1D
Entries 26
Mean −0.0006594
Std Dev 0.1543
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

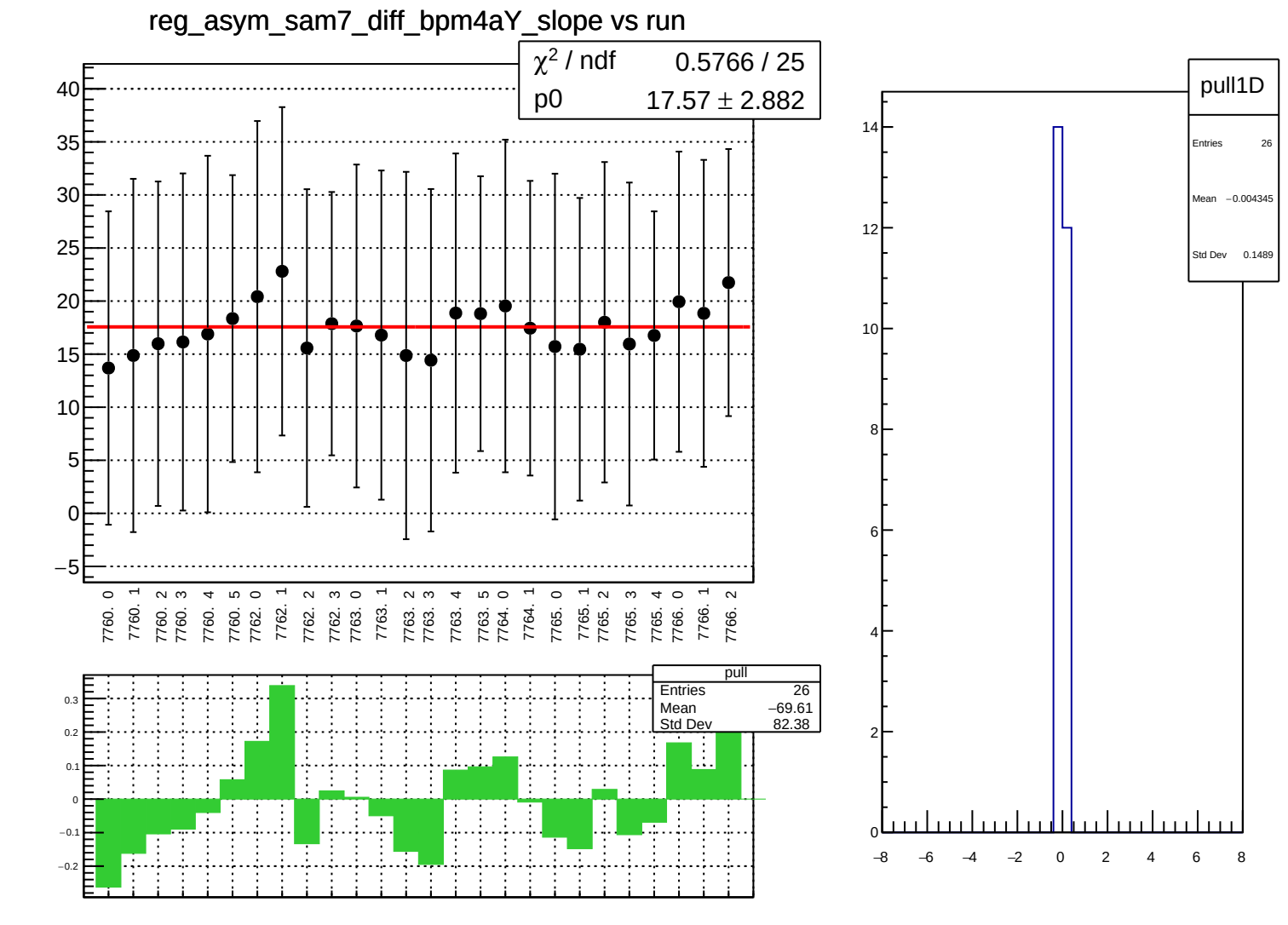

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 0.8691 / 25
p0 40.87 ± 4.311
80
70
60
50
40
30
20
10
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −14.07
Std Dev 29.83
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
pull1D
Entries 26
Mean 0.0115
Std Dev 0.1825
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

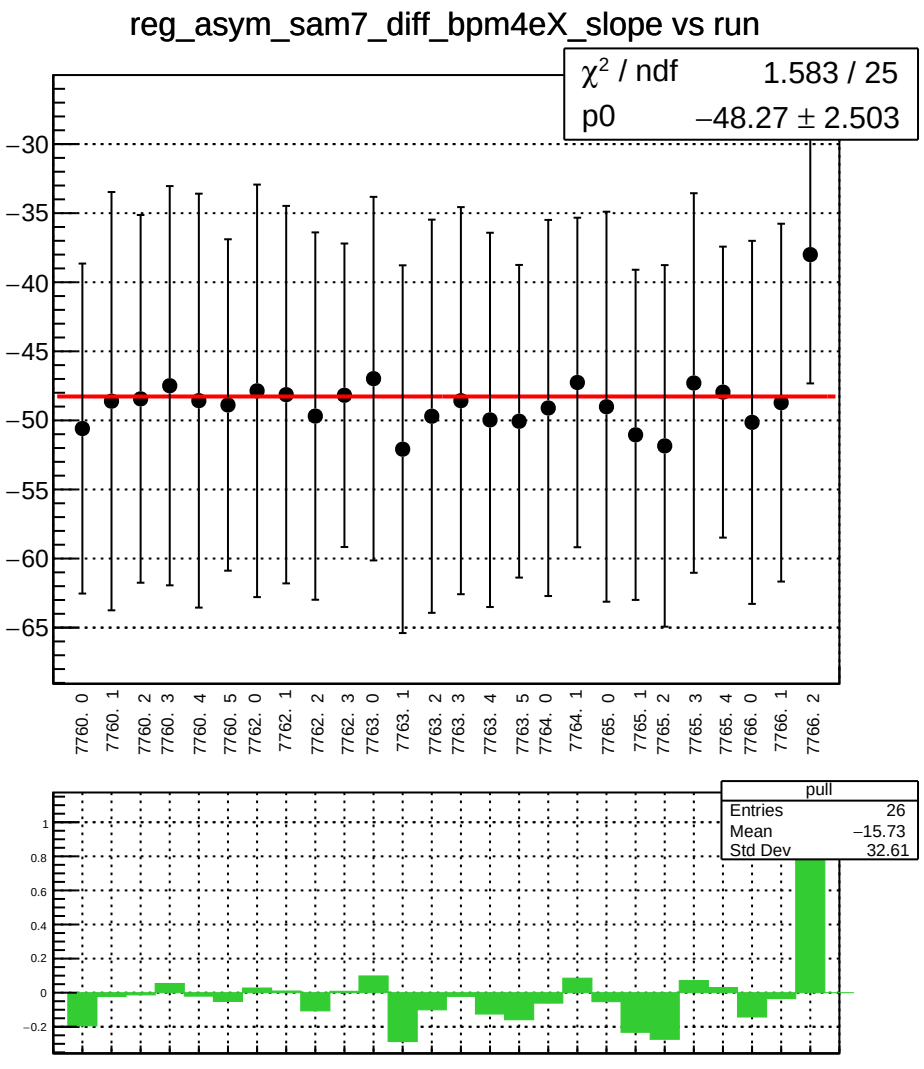

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 0.6655 / 25
p0 −14.27 ± 5.587
20
0
−20
−40
−60
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −33.7
Std Dev 38.09
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 26
Mean 0.005132
Std Dev 0.1599
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

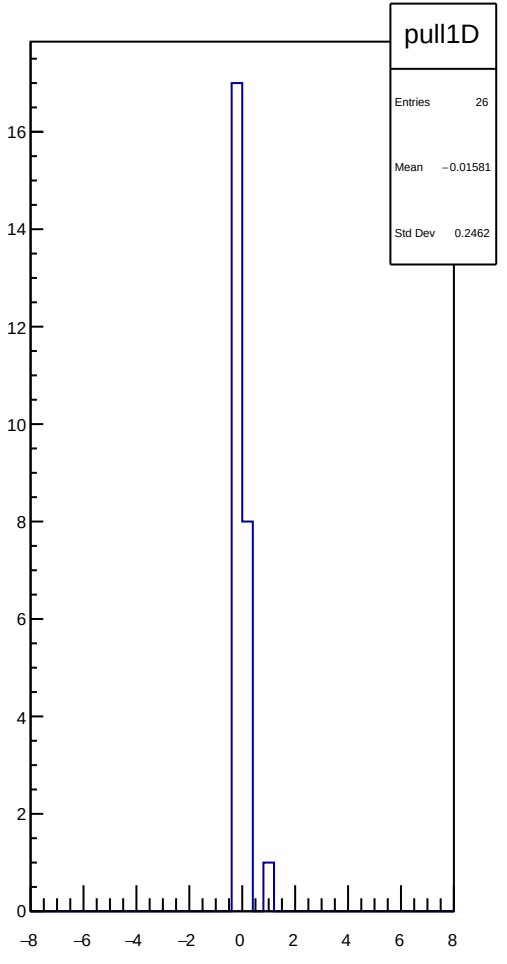

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 1.045 / 25
p0 −0.3327 ± 0.1532
0.5
0
−0.5
−1
−1.5
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −176
Std Dev 188.7
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 26
Mean −0.003706
Std Dev 0.2004
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

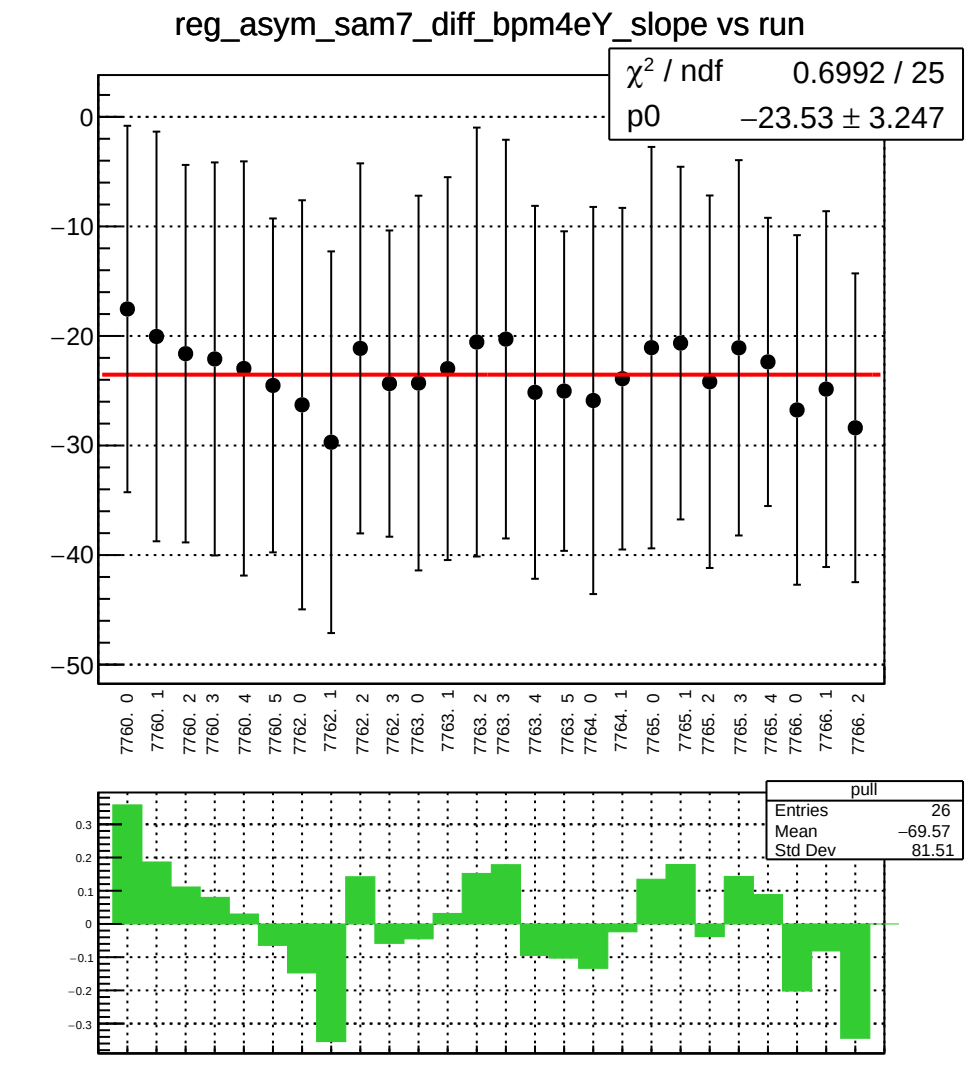

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 1.615 / 25
p0 6.732 ± 2.701
pull
Entries 26
Mean −37.87
Std Dev 52.37
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

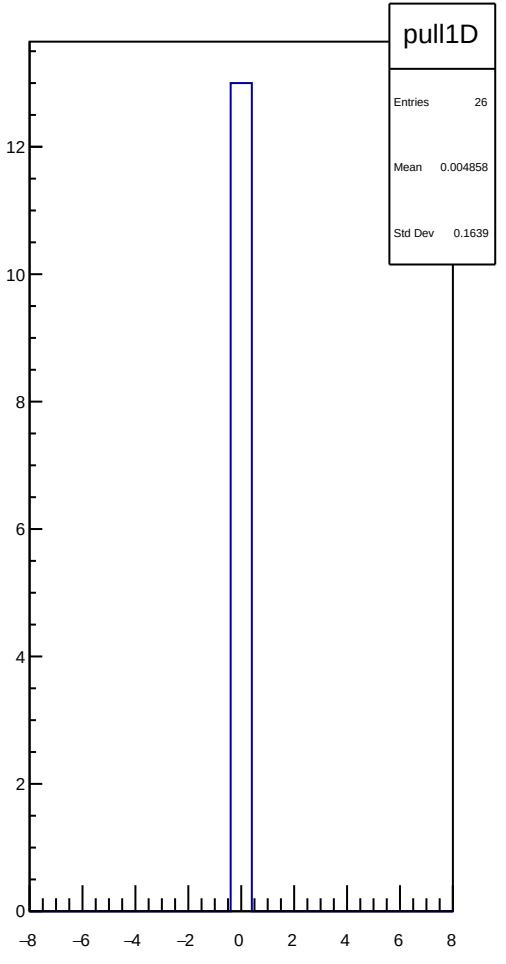

pull1D
Entries 26
Mean 0.01278
Std Dev 0.2489

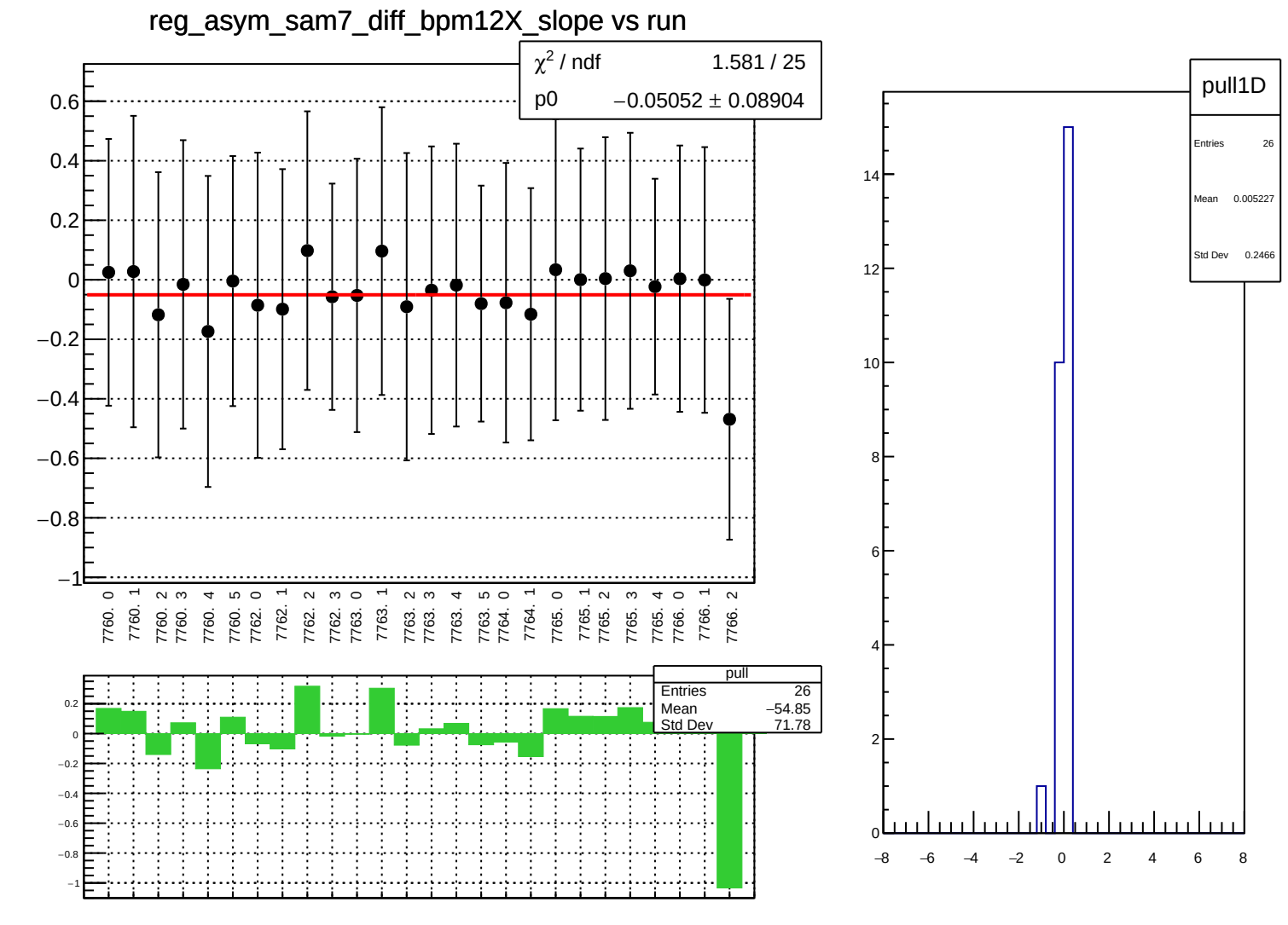

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 0.5766 / 25
p0 17.57 ± 2.882
pull
Entries 26
Mean −69.61
Std Dev 82.38
pull1D
Entries 26
Mean −0.004345
Std Dev 0.1489

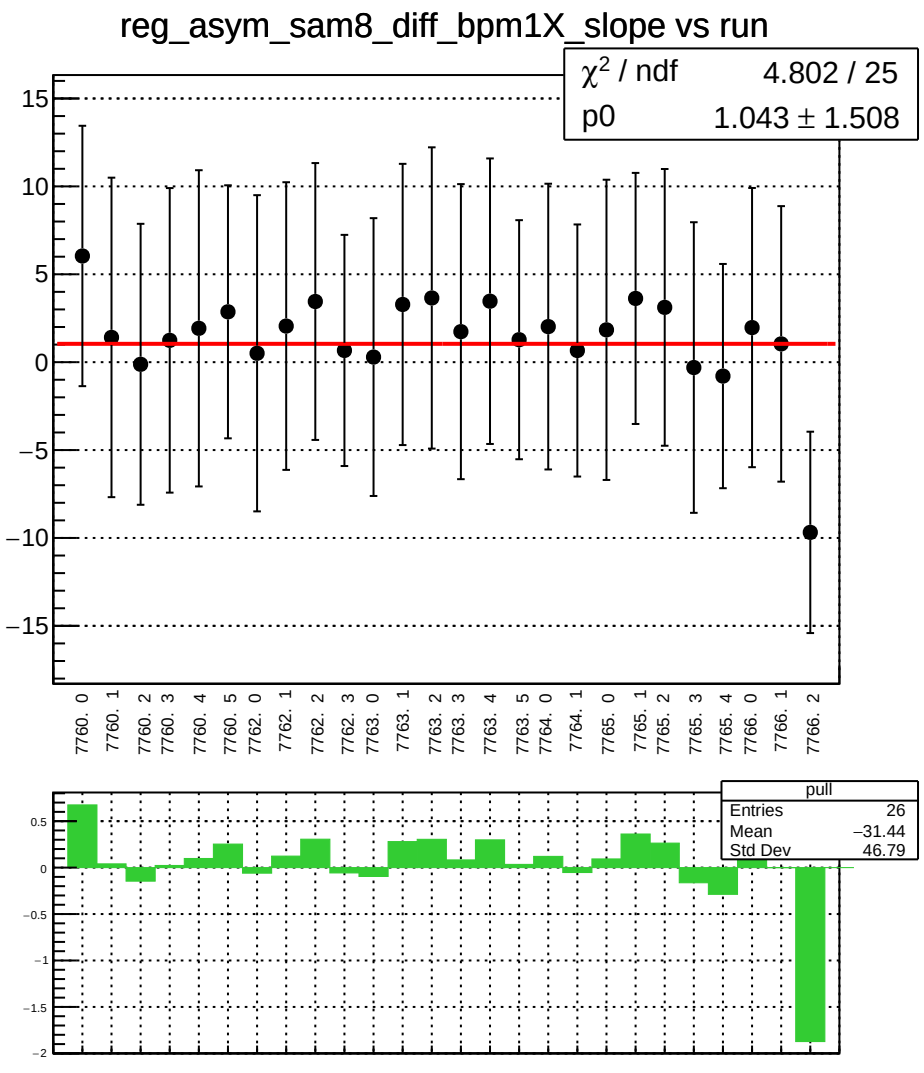

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 1.583 / 25
p0 −48.27 ± 2.503
−30
−35
−40
−45
−50
−55
−60
−65
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −15.73
Std Dev 32.61
1
0.8
0.6
0.4
0.2
0
−0.2

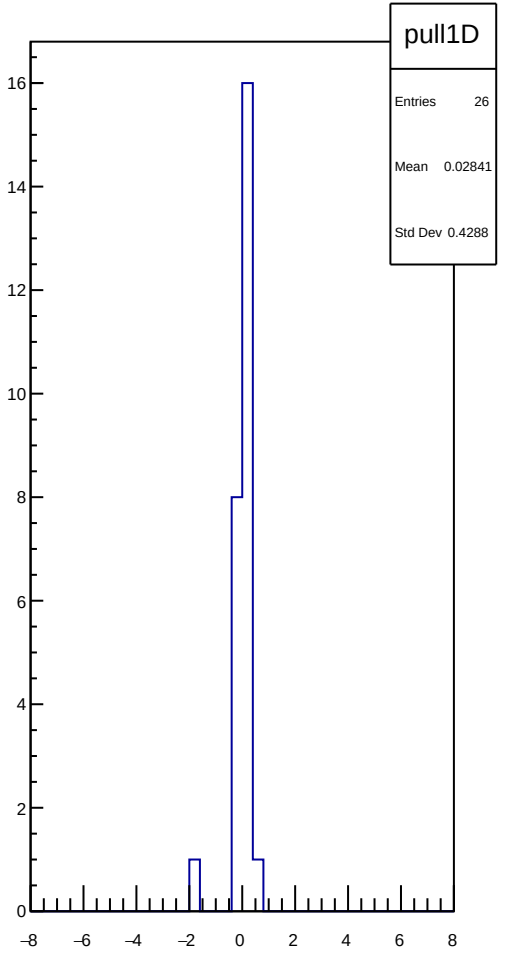

pull1D
Entries 26
Mean −0.01581
Std Dev 0.2462
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

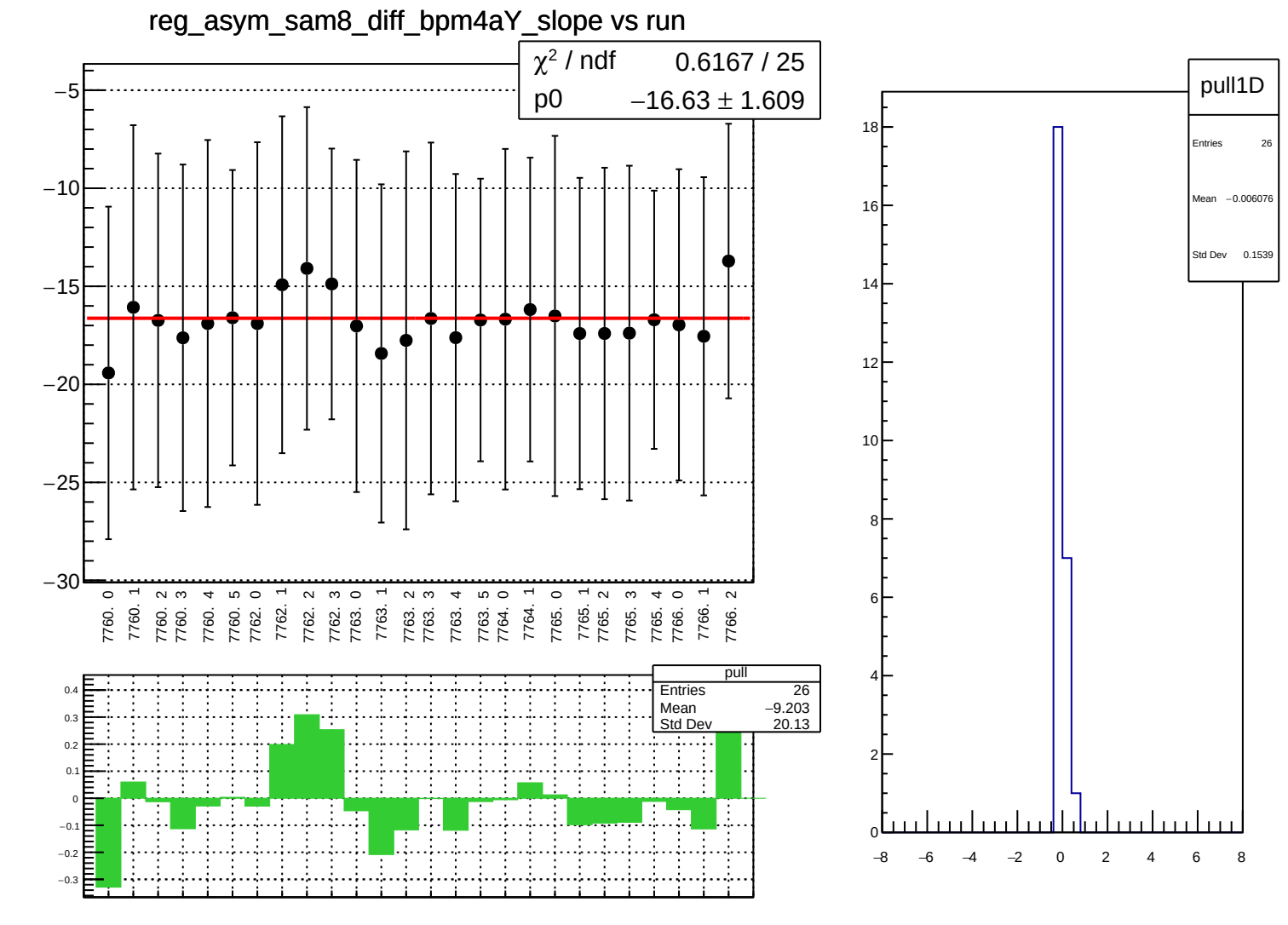

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 0.6992 / 25
p0 −23.53 ± 3.247
0
−10
−20
−30
−40
−50
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −69.57
Std Dev 81.51
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

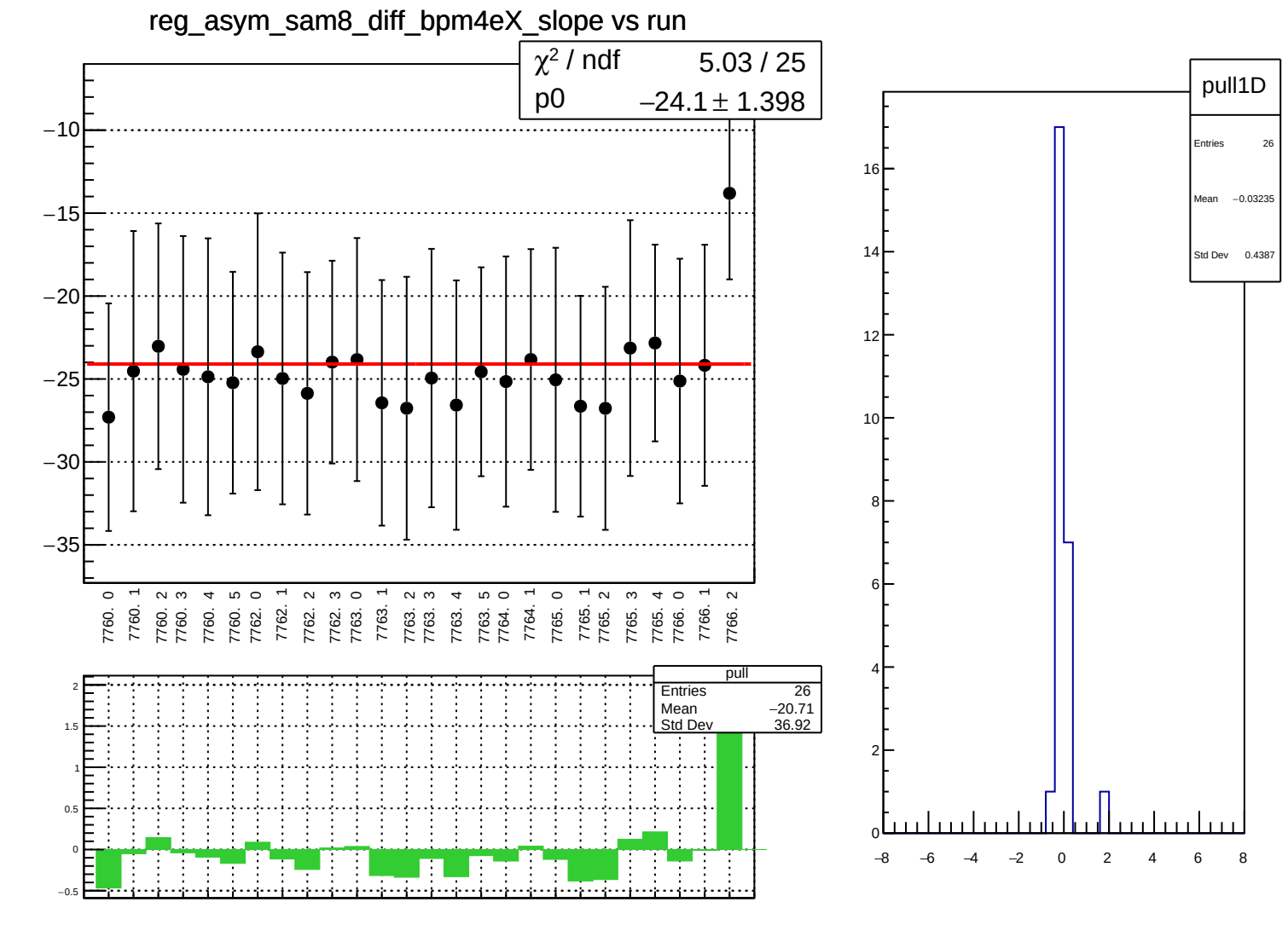

pull1D
Entries 26
Mean 0.004858
Std Dev 0.1639
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

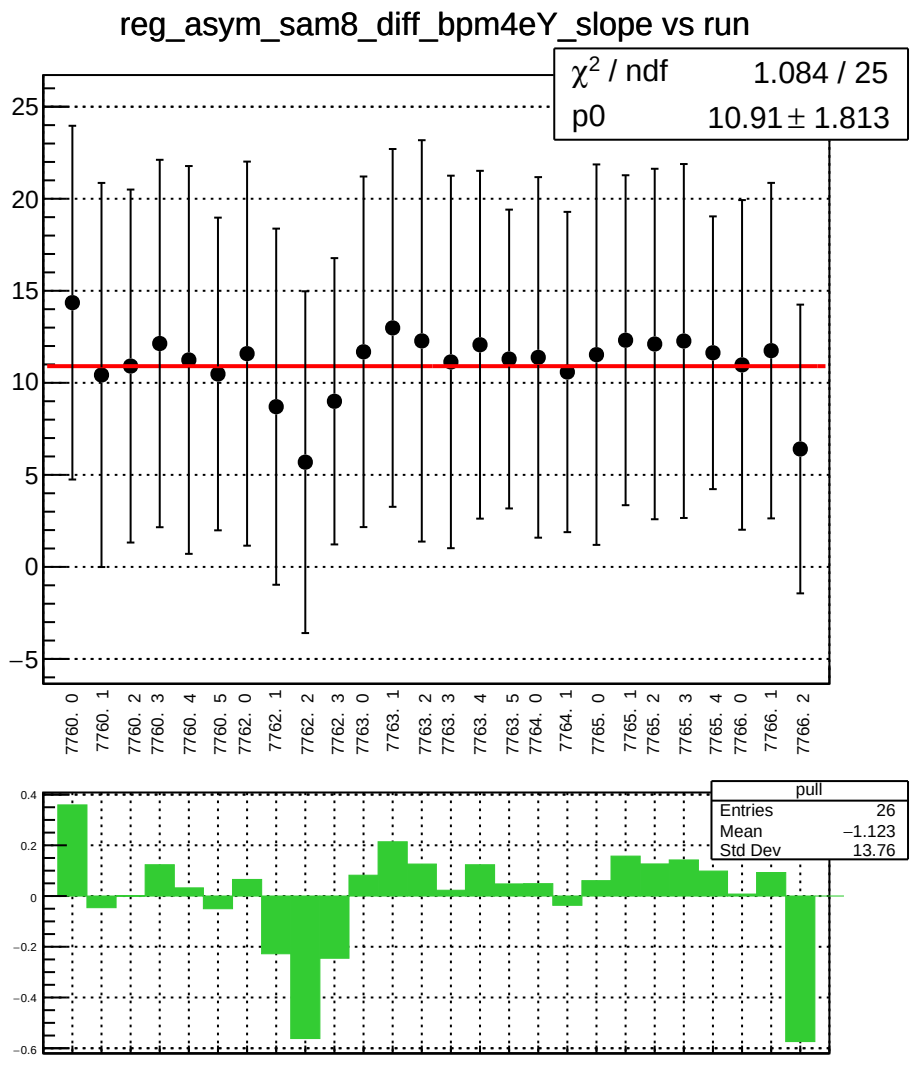

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 1.581 / 25
p0 −0.05052 ± 0.08904
pull
Entries 26
Mean −54.85
Std Dev 71.78
pull1D
Entries 26
Mean 0.005227
Std Dev 0.2466

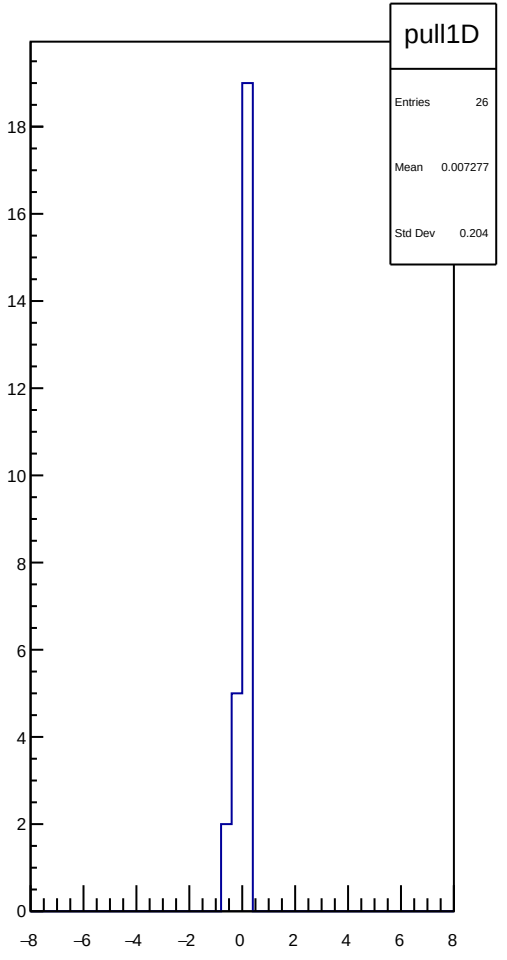

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 4.802 / 25
p0 1.043 ± 1.508
15
10
5
0
−5
−10
−15
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −31.44
Std Dev 46.79
0.5
0
−0.5
−1
−1.5
−2

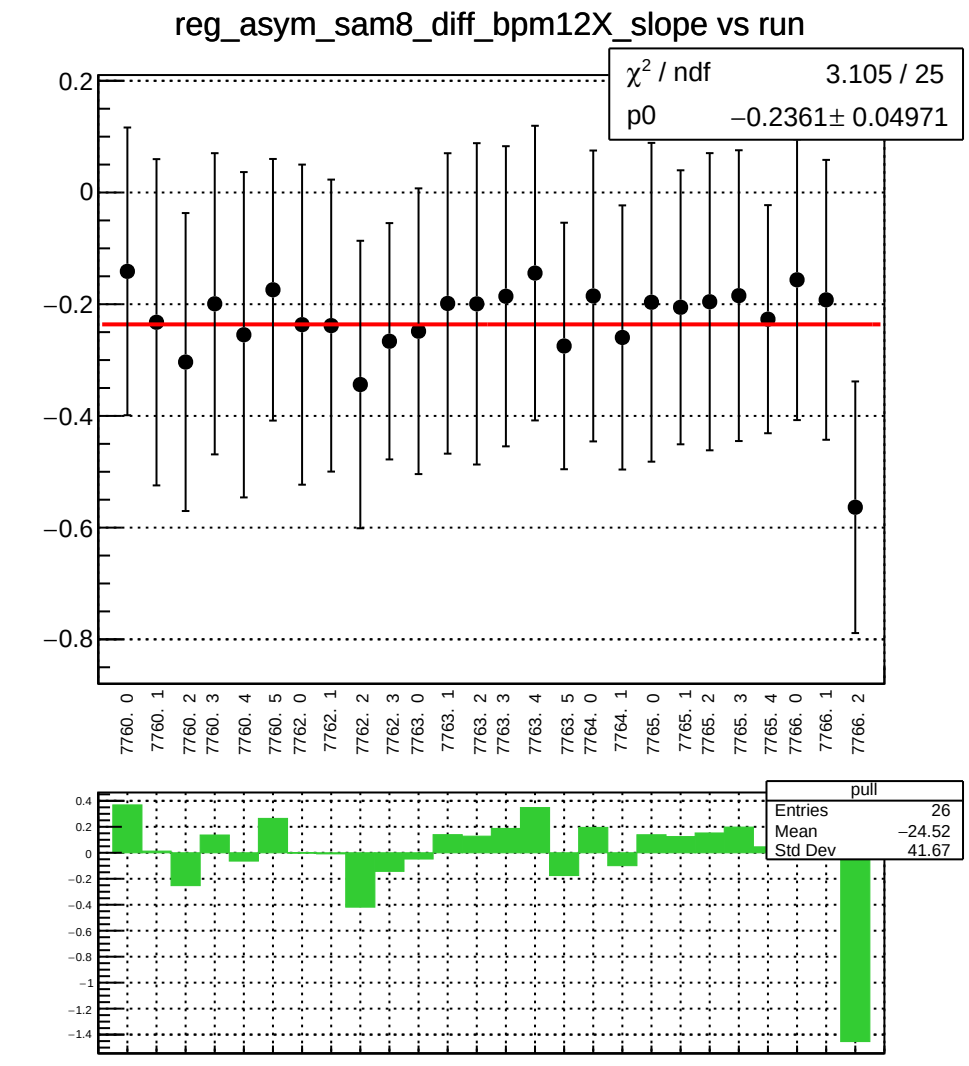

pull1D
Entries 26
Mean 0.02841
Std Dev 0.4288
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

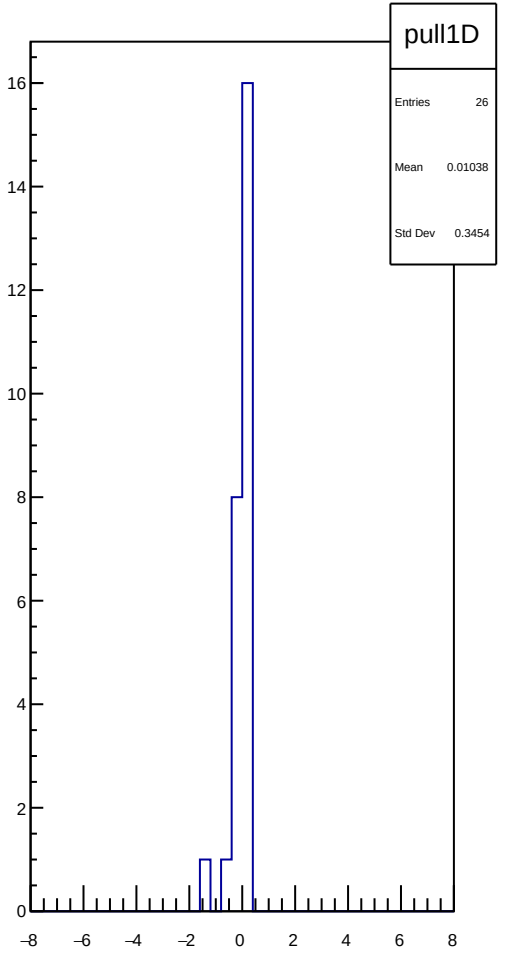

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 0.6167 / 25
p0 −16.63 ± 1.609
−5
−10
−15
−20
−25
−30
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −9.203
Std Dev 20.13
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 26
Mean −0.006076
Std Dev 0.1539
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

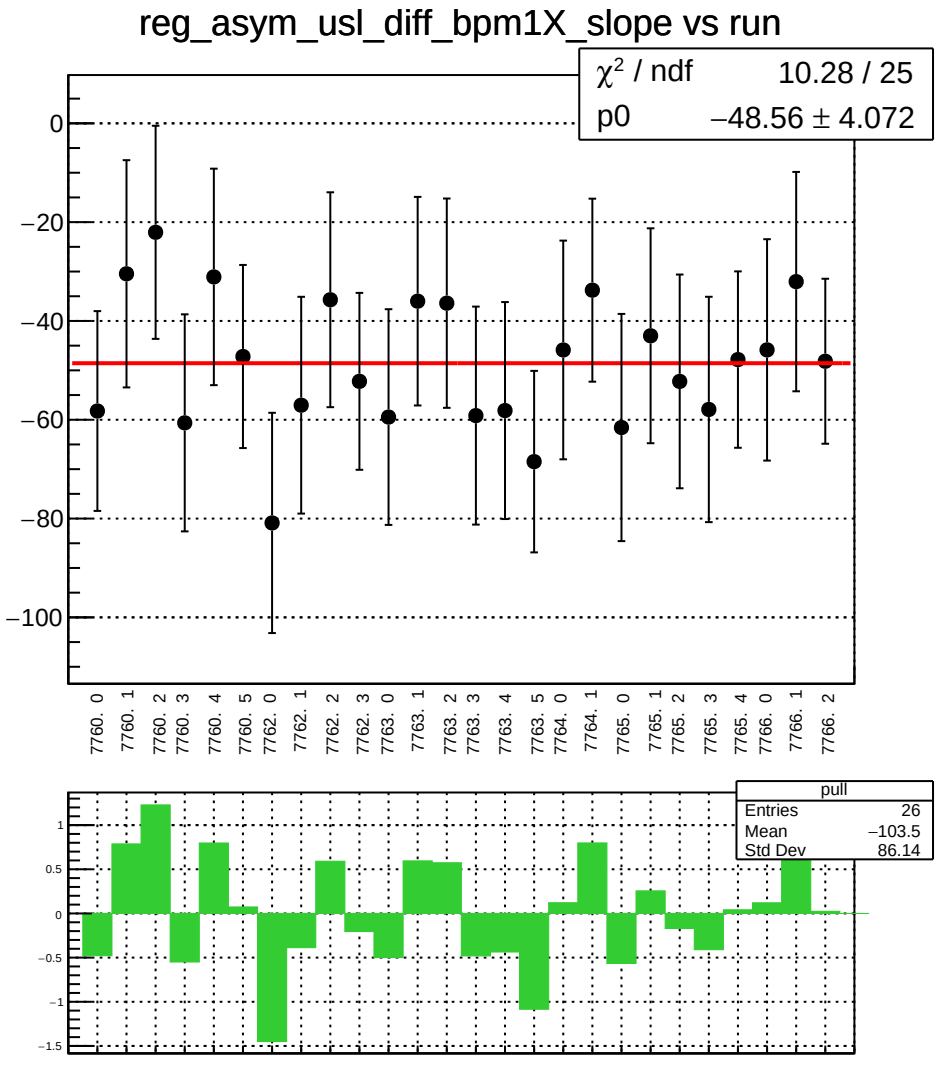

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 5.03 / 25
p0 −24.1 ± 1.398
−10
−15
−20
−25
−30
−35
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −20.71
Std Dev 36.92
2
1.5
1
0.5
0
−0.5
pull1D
Entries 26
Mean −0.03235
Std Dev 0.4387
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

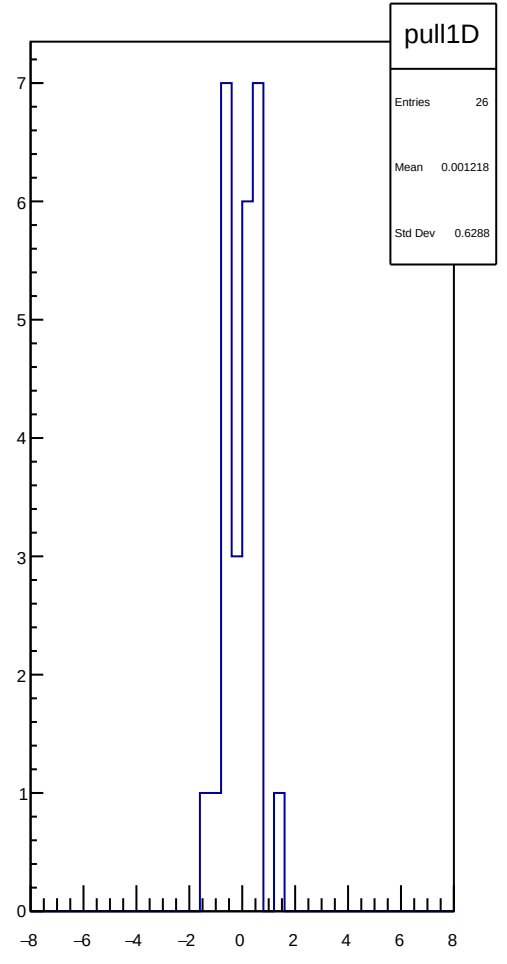

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 1.084 / 25
p0 10.91 ± 1.813
25
20
15
10
5
0
−5
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −1.123
Std Dev 13.76
0.4
0.2
0
−0.2
−0.4
−0.6

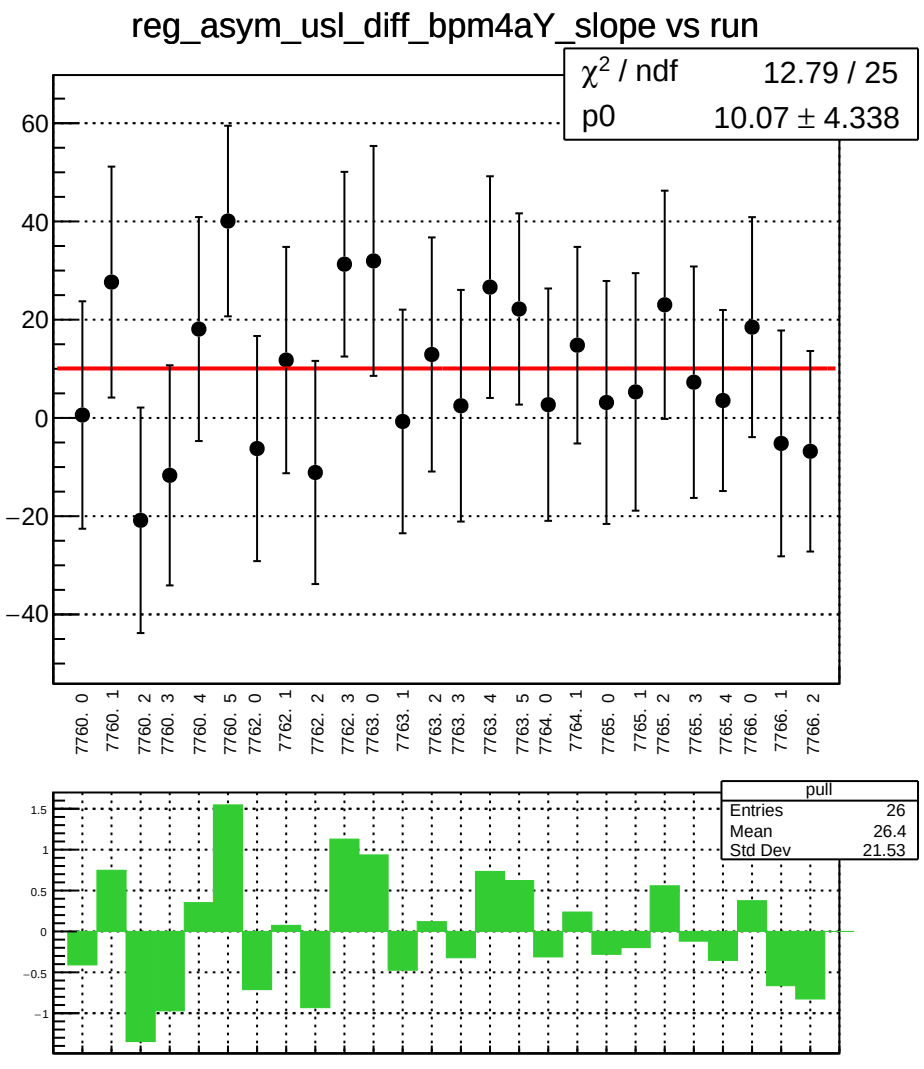

pull1D
Entries 26
Mean 0.007277
Std Dev 0.204
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

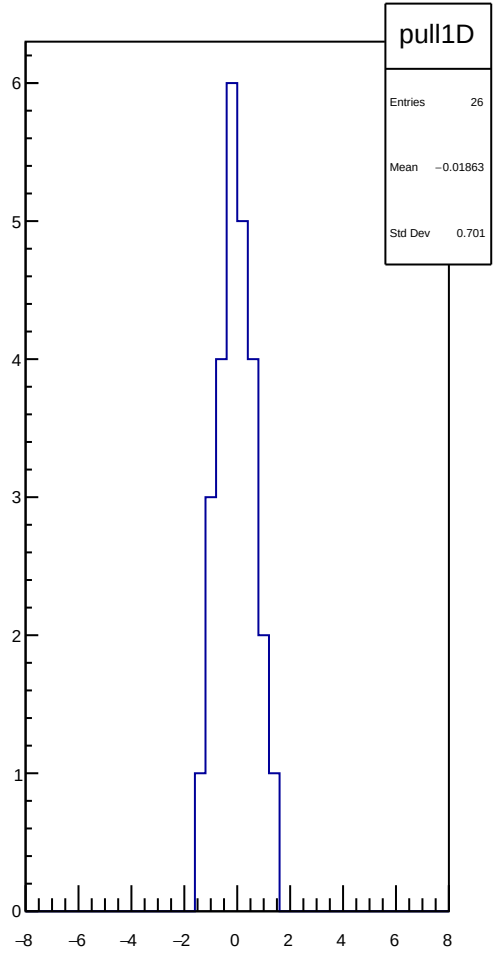

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 3.105 / 25
p0 −0.2361± 0.04971
0.2
0
−0.2
−0.4
−0.6
−0.8
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −24.52
Std Dev 41.67
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4

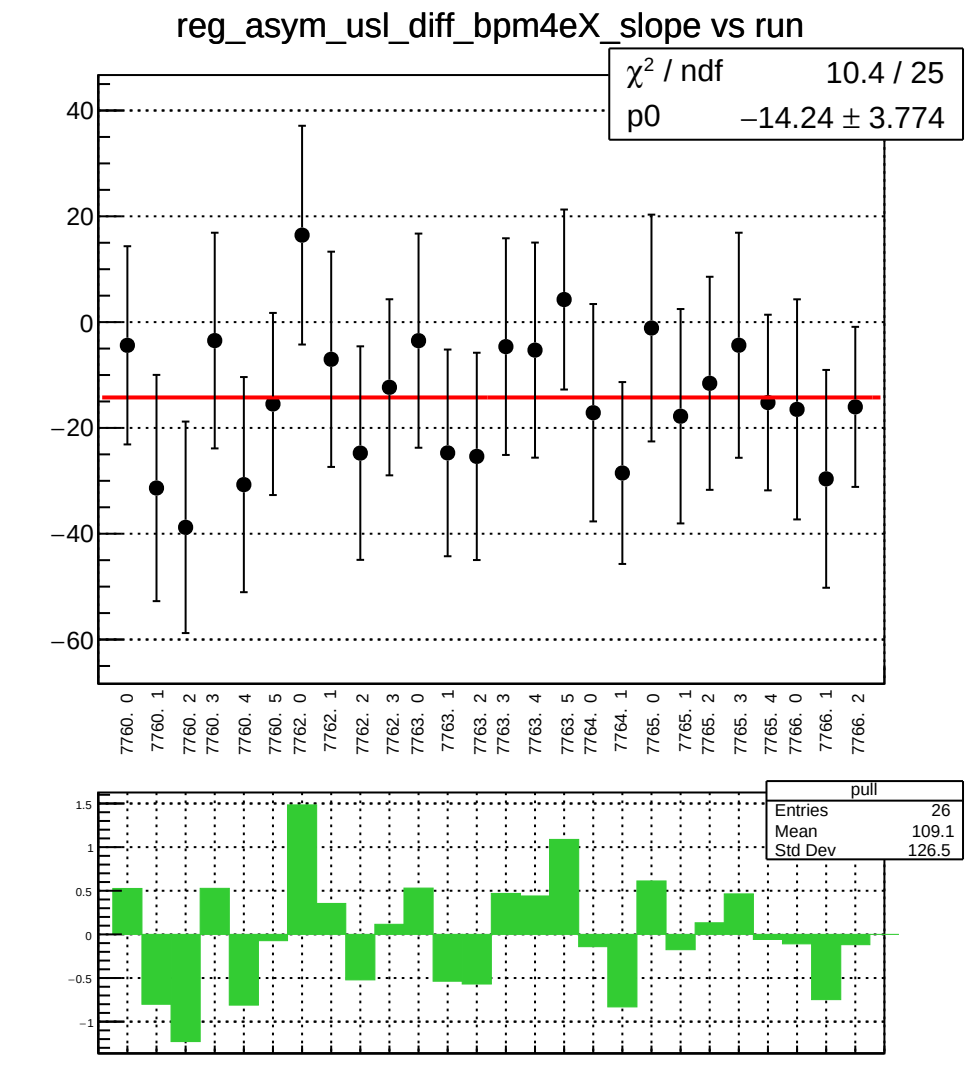

pull1D
Entries 26
Mean 0.01038
Std Dev 0.3454
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

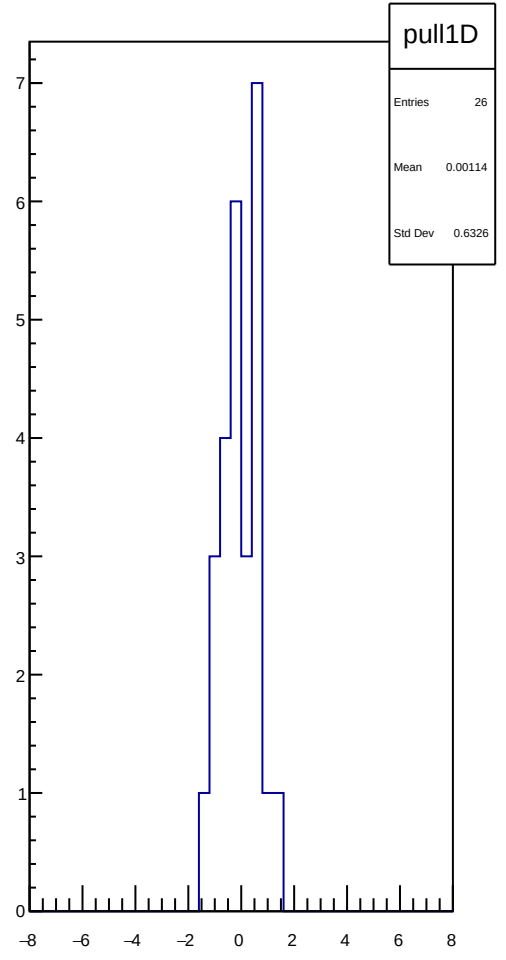

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 10.28 / 25
p0 −48.56 ± 4.072
0
−20
−40
−60
−80
−100
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −103.5
Std Dev 86.14
1
0.5
0
−0.5
−1
−1.5

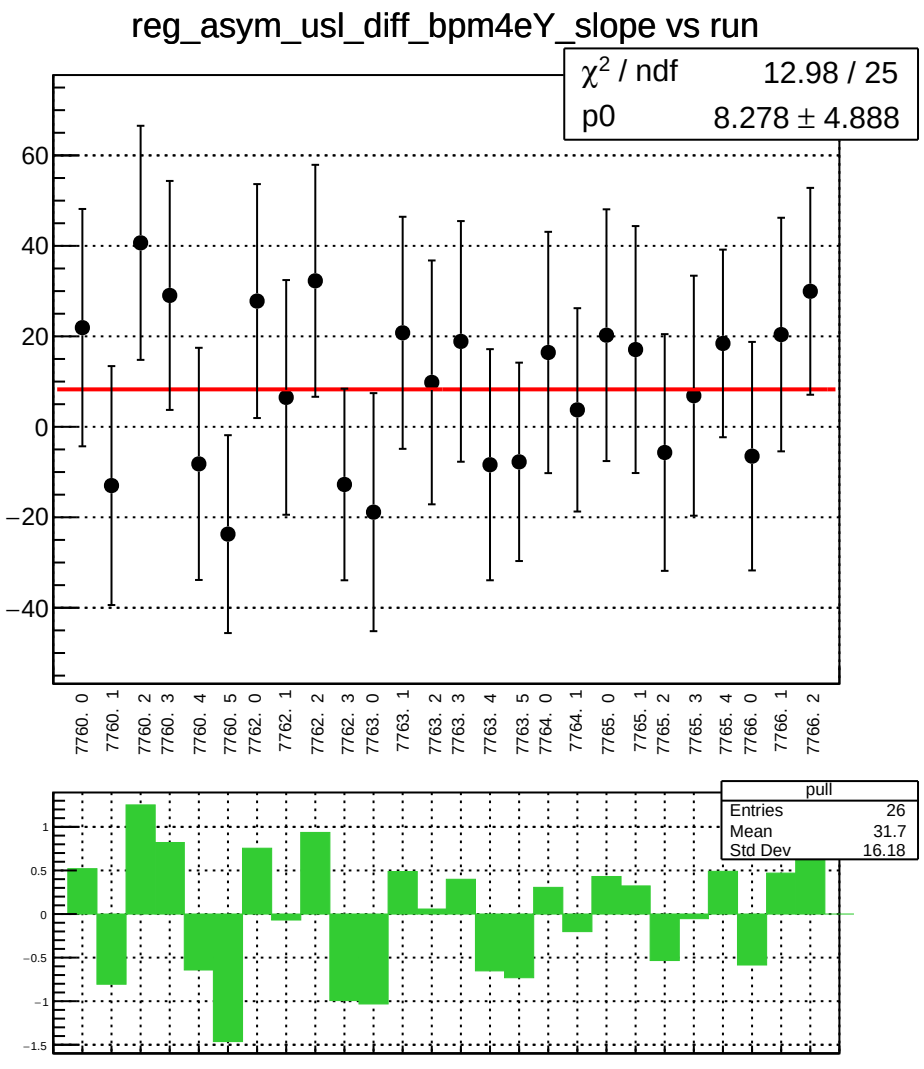

pull1D
Entries 26
Mean 0.001218
Std Dev 0.6288
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

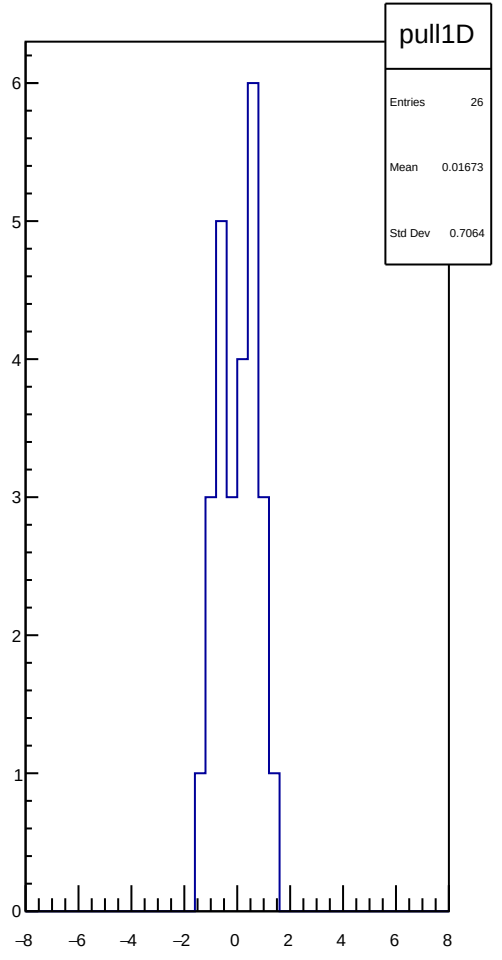

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 12.79 / 25
p0 10.07 ± 4.338
60
40
20
0
−20
−40
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 26.4
Std Dev 21.53
1.5
1
0.5
0
−0.5
−1

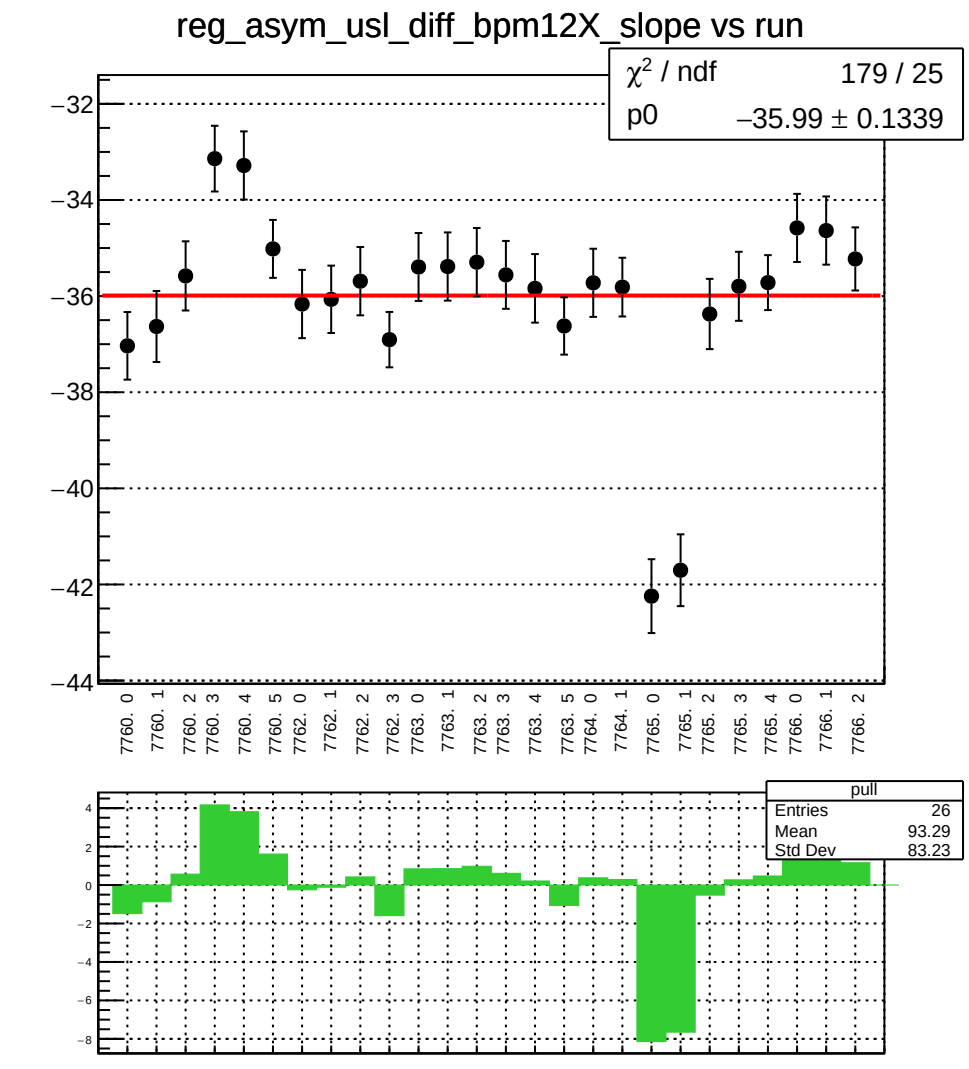

pull1D
Entries 26
Mean −0.01863
Std Dev 0.701
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

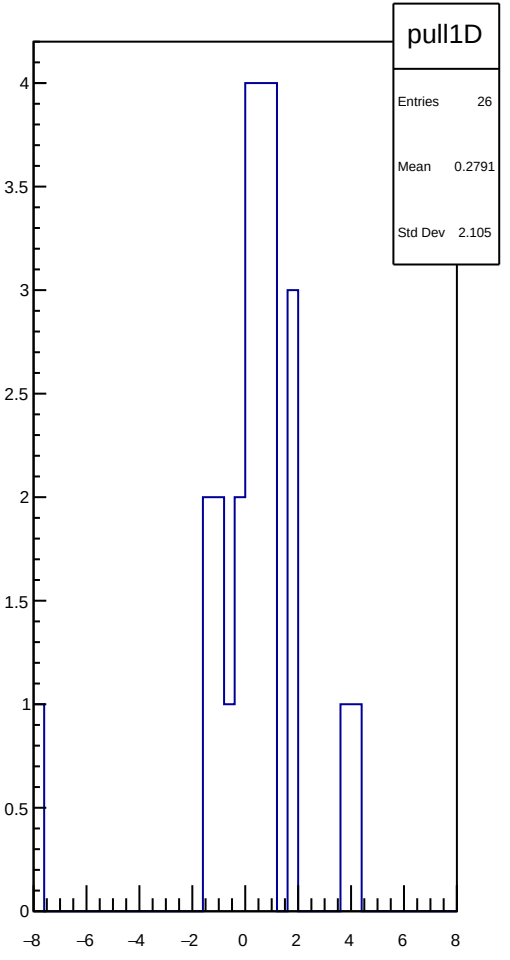

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 10.4 / 25
p0 −14.24 ± 3.774
40
20
0
−20
−40
−60
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 109.1
Std Dev 126.5
1.5
1
0.5
0
−0.5
−1

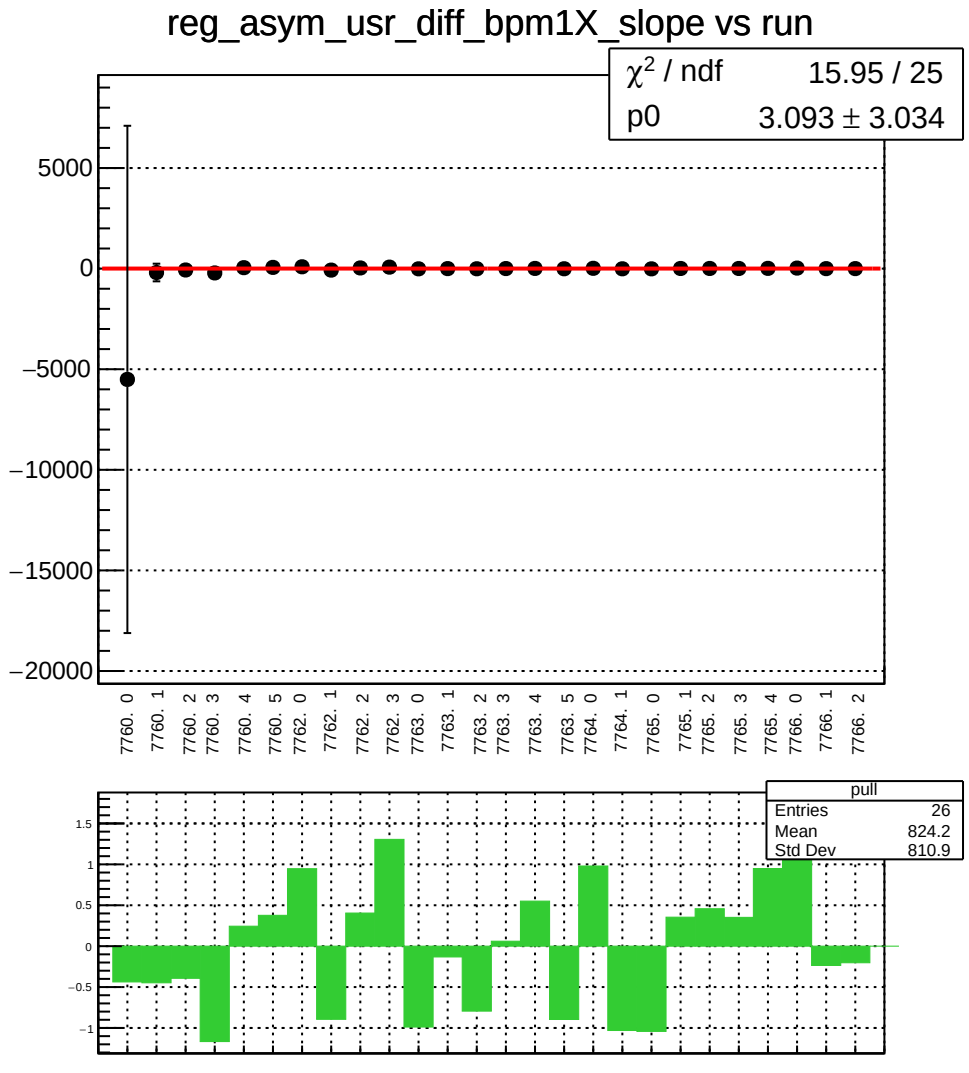

pull1D
Entries 26
Mean 0.00114
Std Dev 0.6326
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

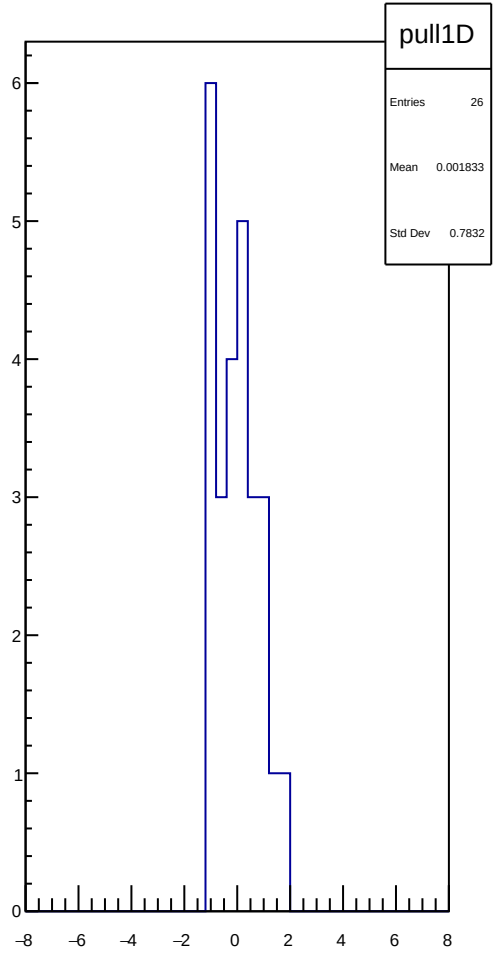

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 12.98 / 25
p0 8.278 ± 4.888
60
40
20
0
−20
−40
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 31.7
Std Dev 16.18
1
0.5
0
−0.5
−1
−1.5

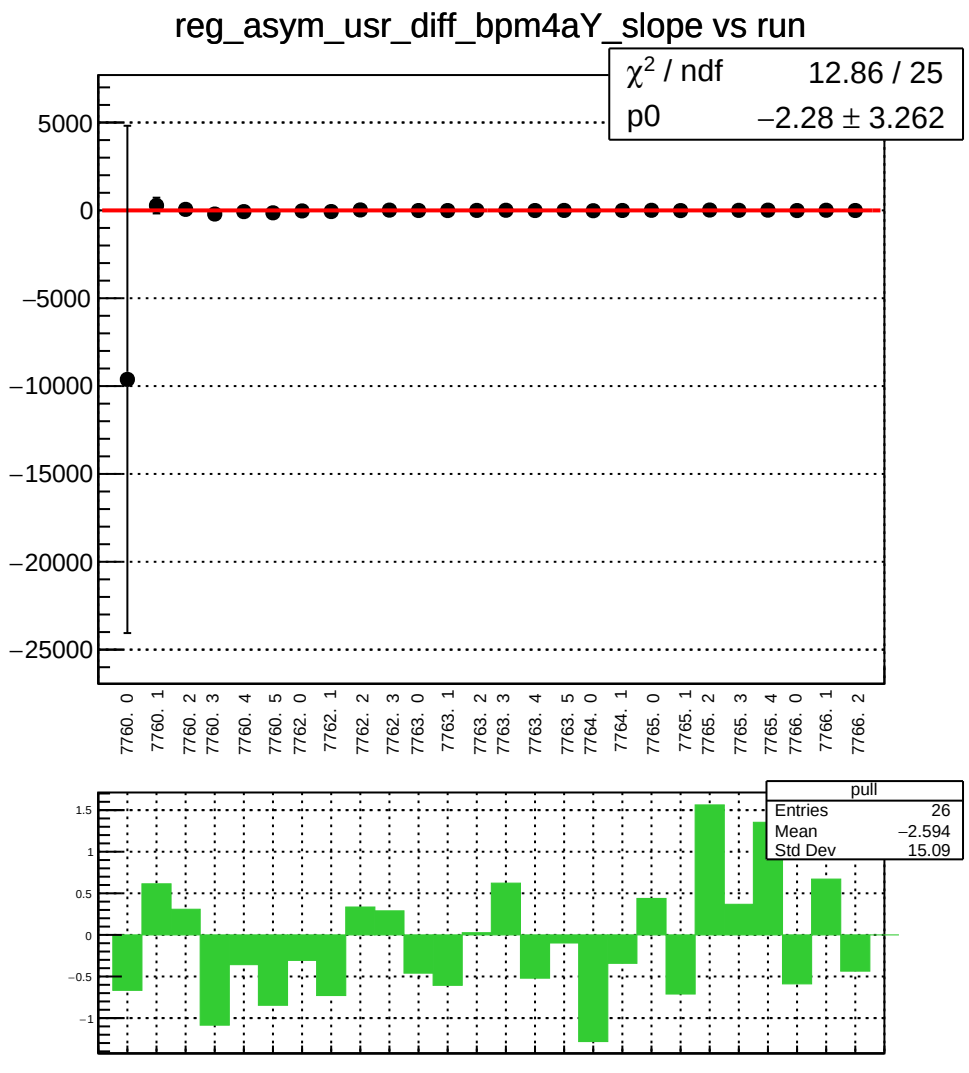

pull1D
Entries 26
Mean 0.01673
Std Dev 0.7064
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

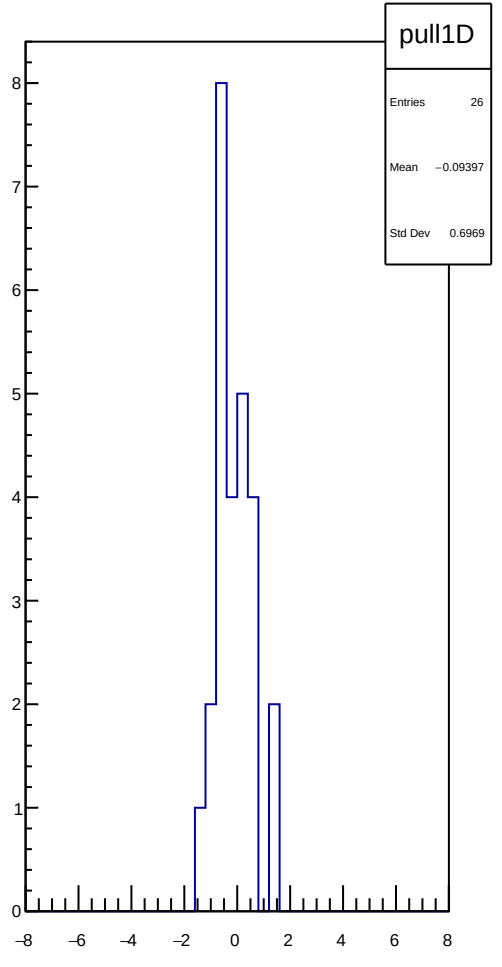

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 179 / 25
p0 −35.99 ± 0.1339
−32
−34
−36
−38
−40
−42
−44
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 93.29
Std Dev 83.23
4
2
0
−2
−4
−6
−8

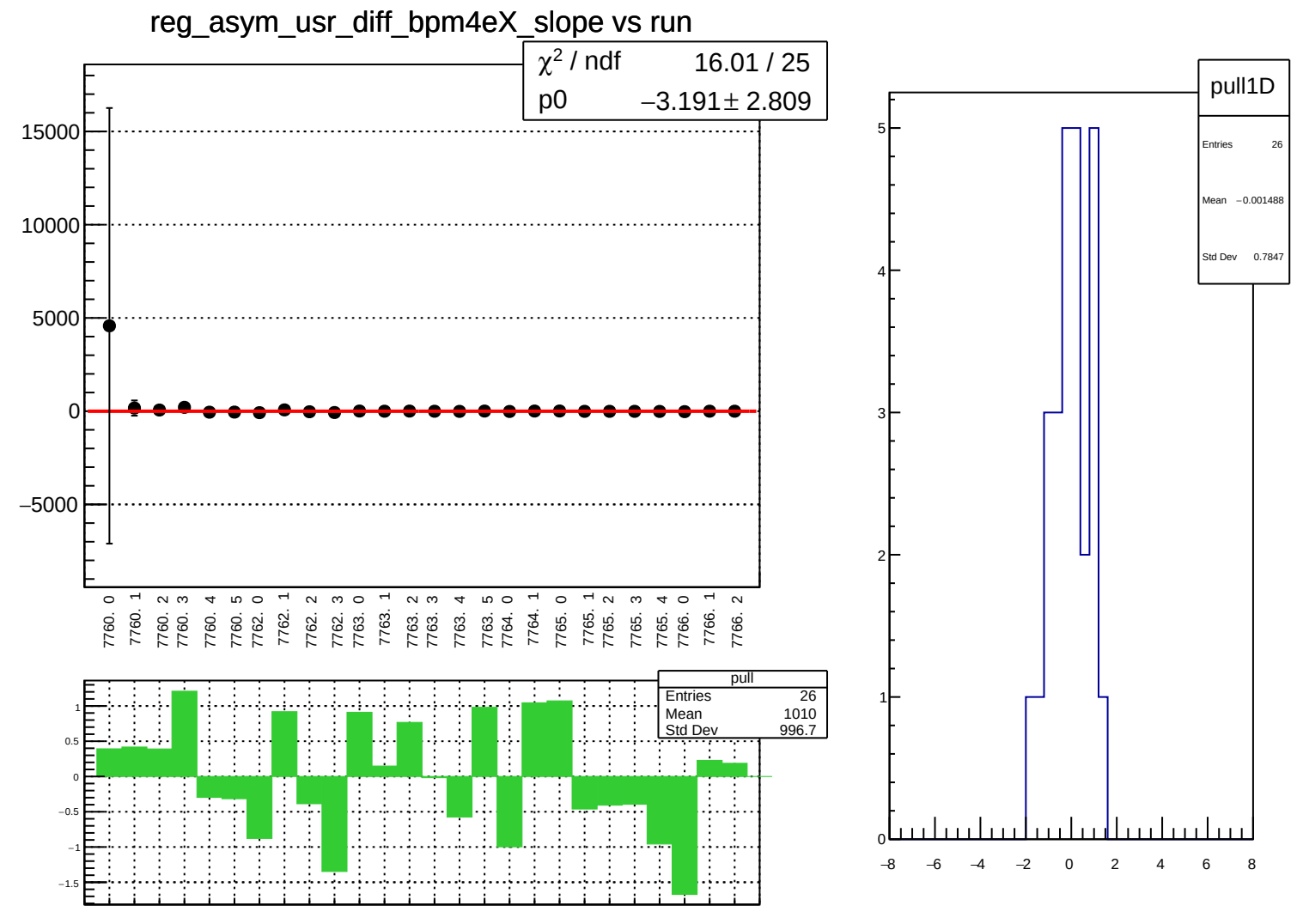

pull1D
Entries 26
Mean 0.2791
Std Dev 2.105
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

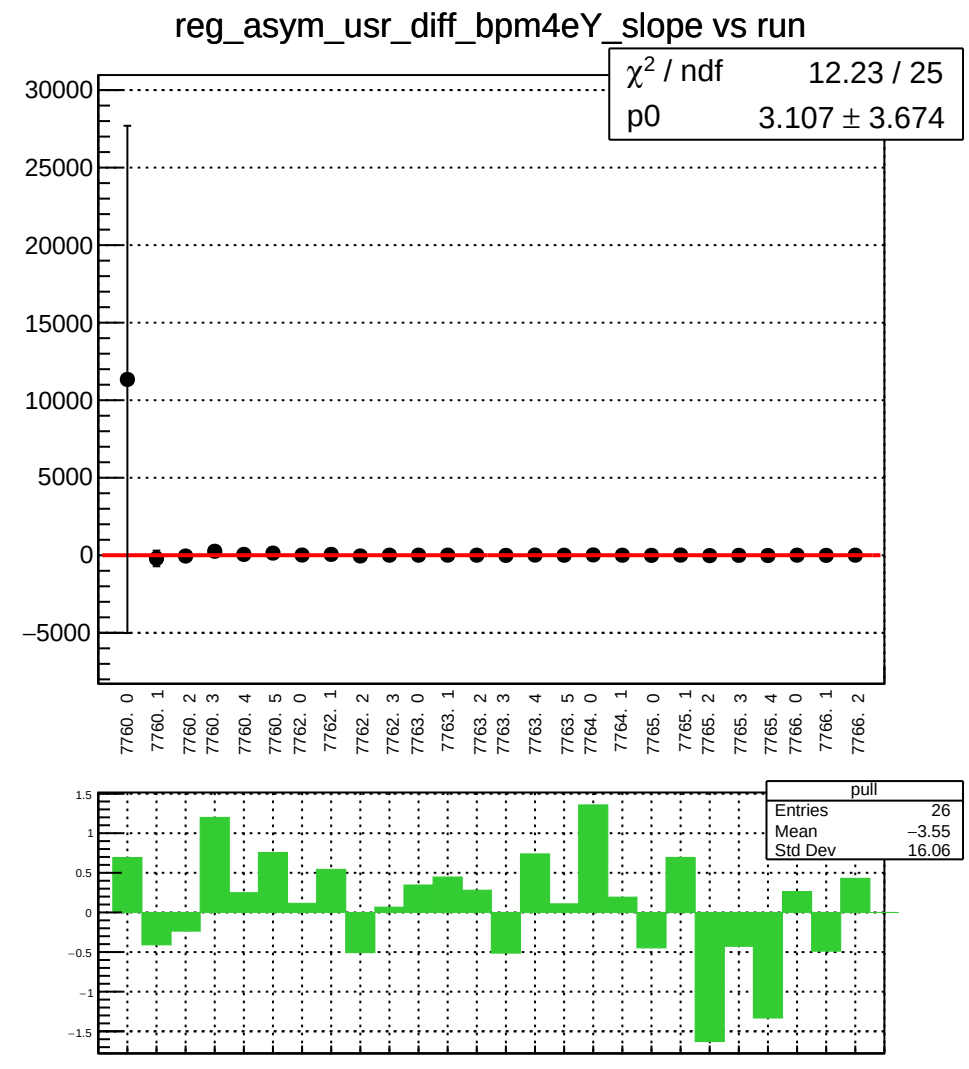

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 15.95 / 25
p0 3.093 ± 3.034
5000
0
−5000
−10000
−15000
−20000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 824.2
Std Dev 810.9
1.5
1
0.5
0
−0.5
−1

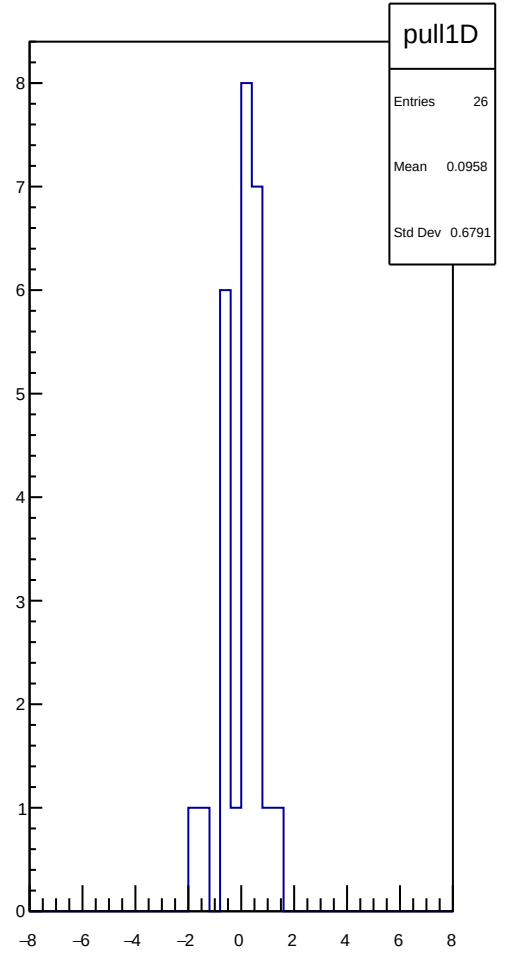

pull1D
Entries 26
Mean 0.001833
Std Dev 0.7832
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

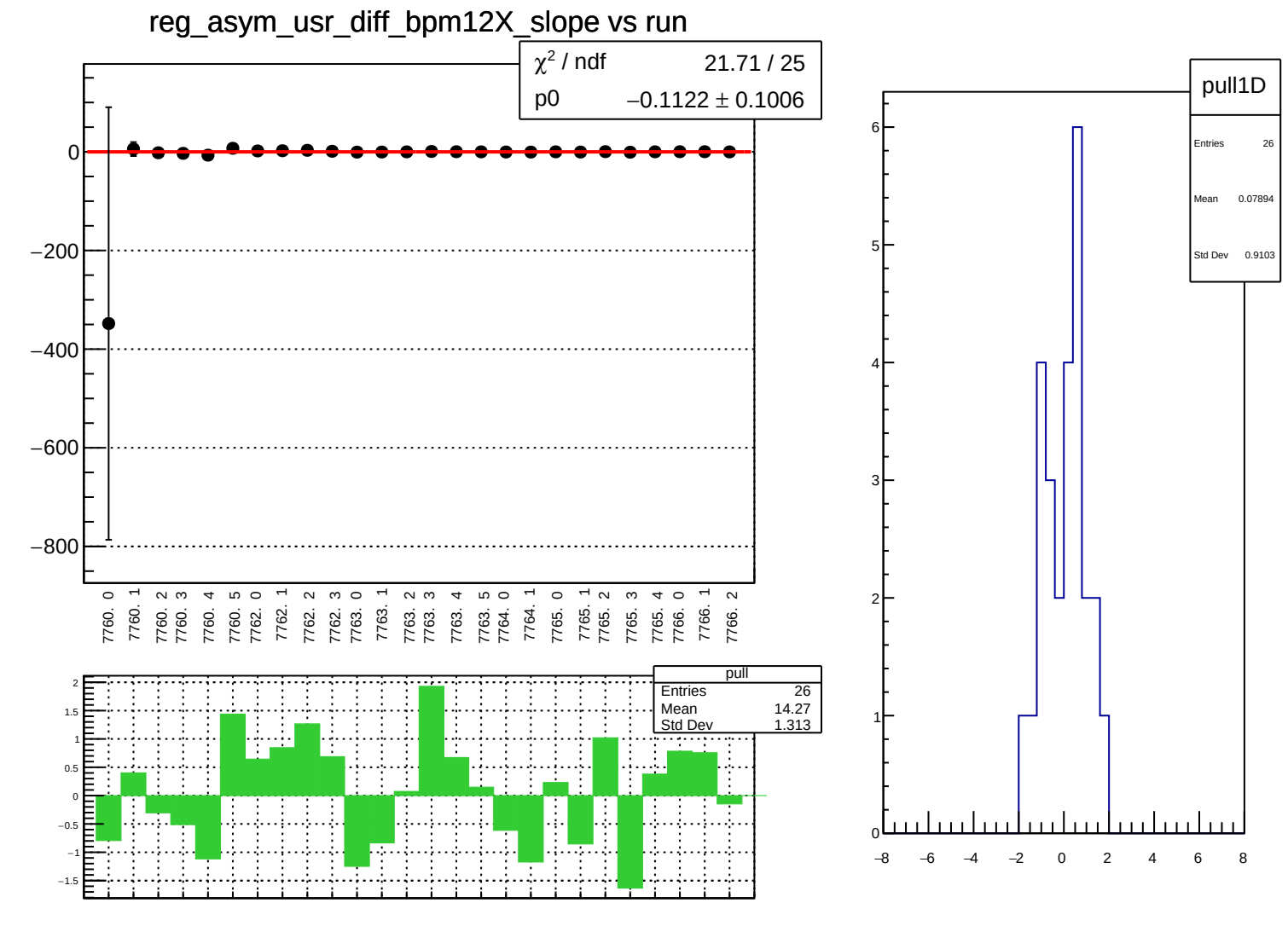

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 12.86 / 25
p0 −2.28 ± 3.262
5000
0
−5000
−10000
−15000
−20000
−25000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −2.594
Std Dev 15.09
1.5
1
0.5
0
−0.5
−1

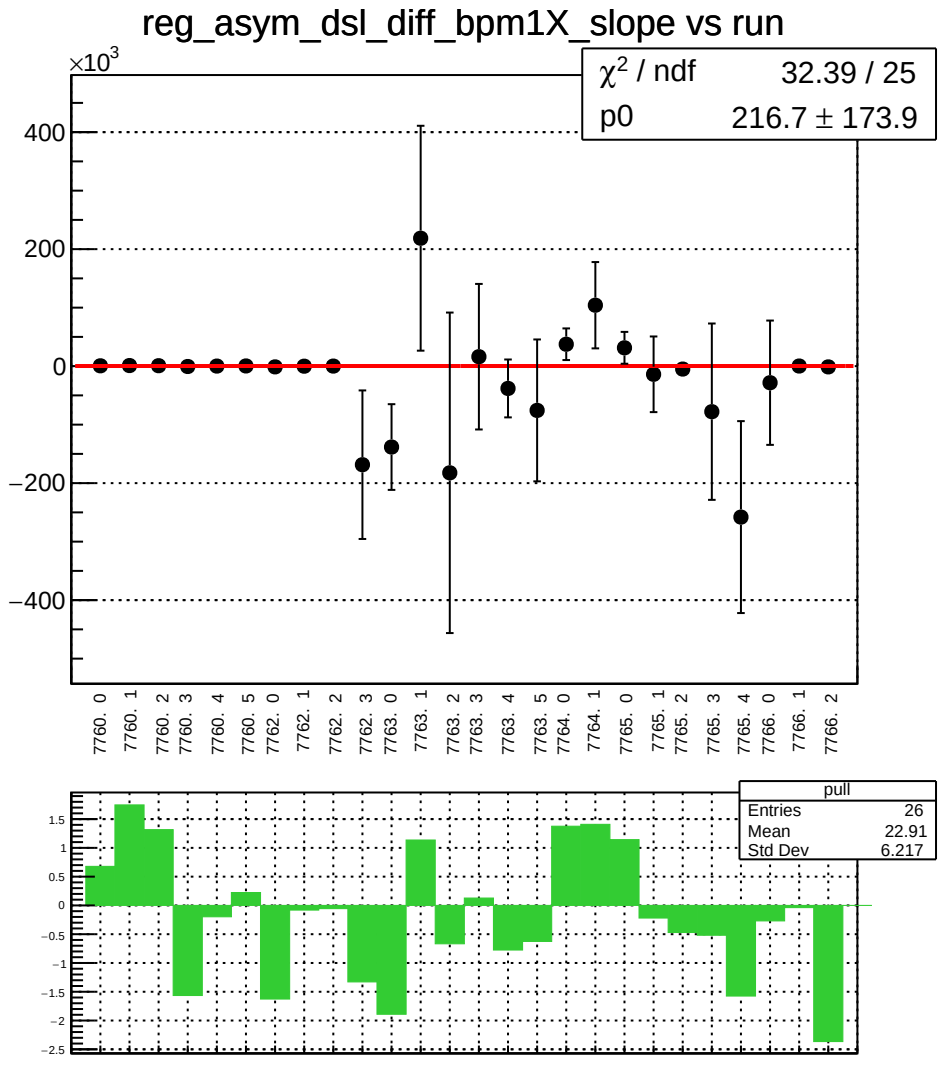

pull1D
Entries 26
Mean −0.09397
Std Dev 0.6969
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

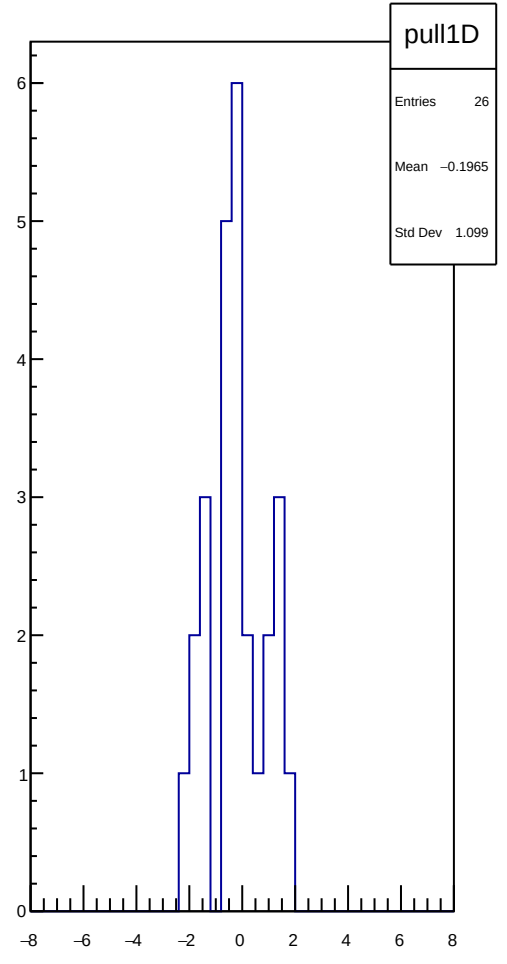

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 16.01 / 25
p0 −3.191 ± 2.809
15000
10000
5000
0
−5000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 1010
Std Dev 996.7
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 26
Mean −0.001488
Std Dev 0.7847
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

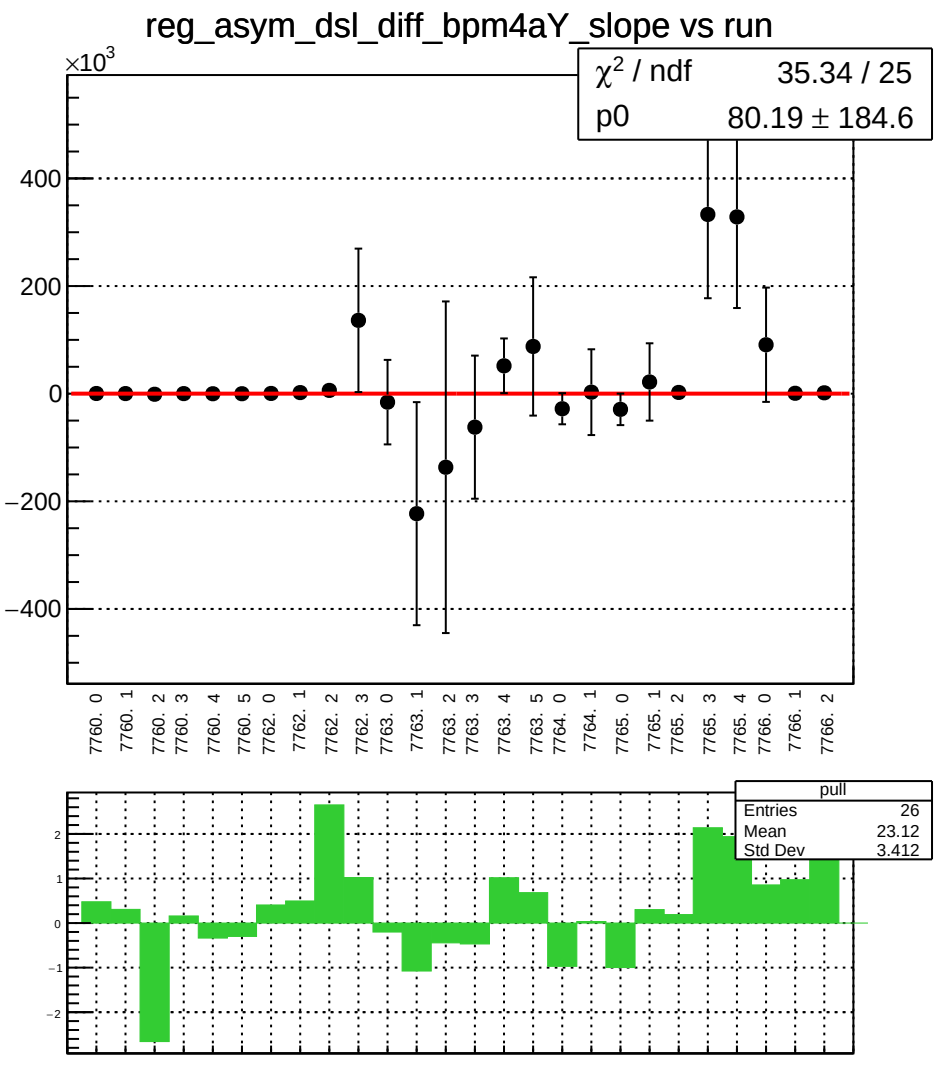

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 12.23 / 25
p0 3.107 ± 3.674
30000
25000
20000
15000
10000
5000
0
−5000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −3.55
Std Dev 16.06
1.5
1
0.5
0
−0.5
−1
−1.5

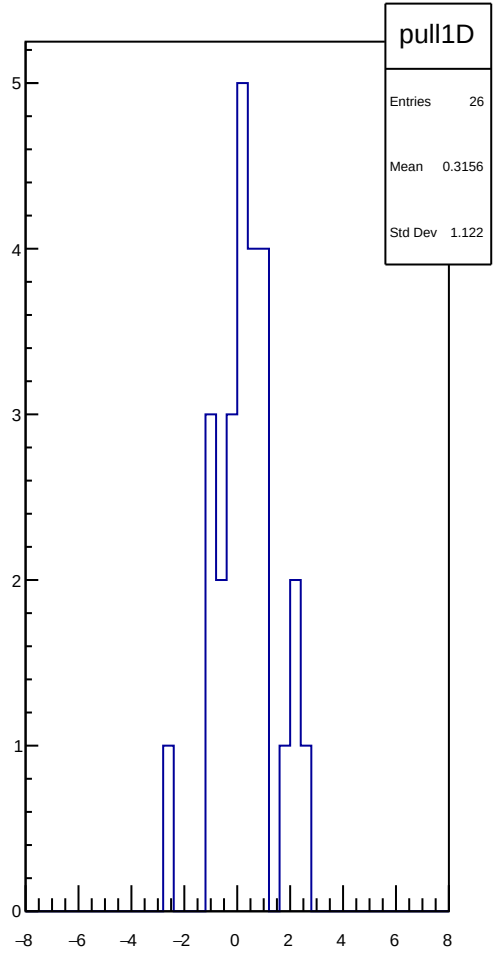

pull1D
Entries 26
Mean 0.0958
Std Dev 0.6791
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

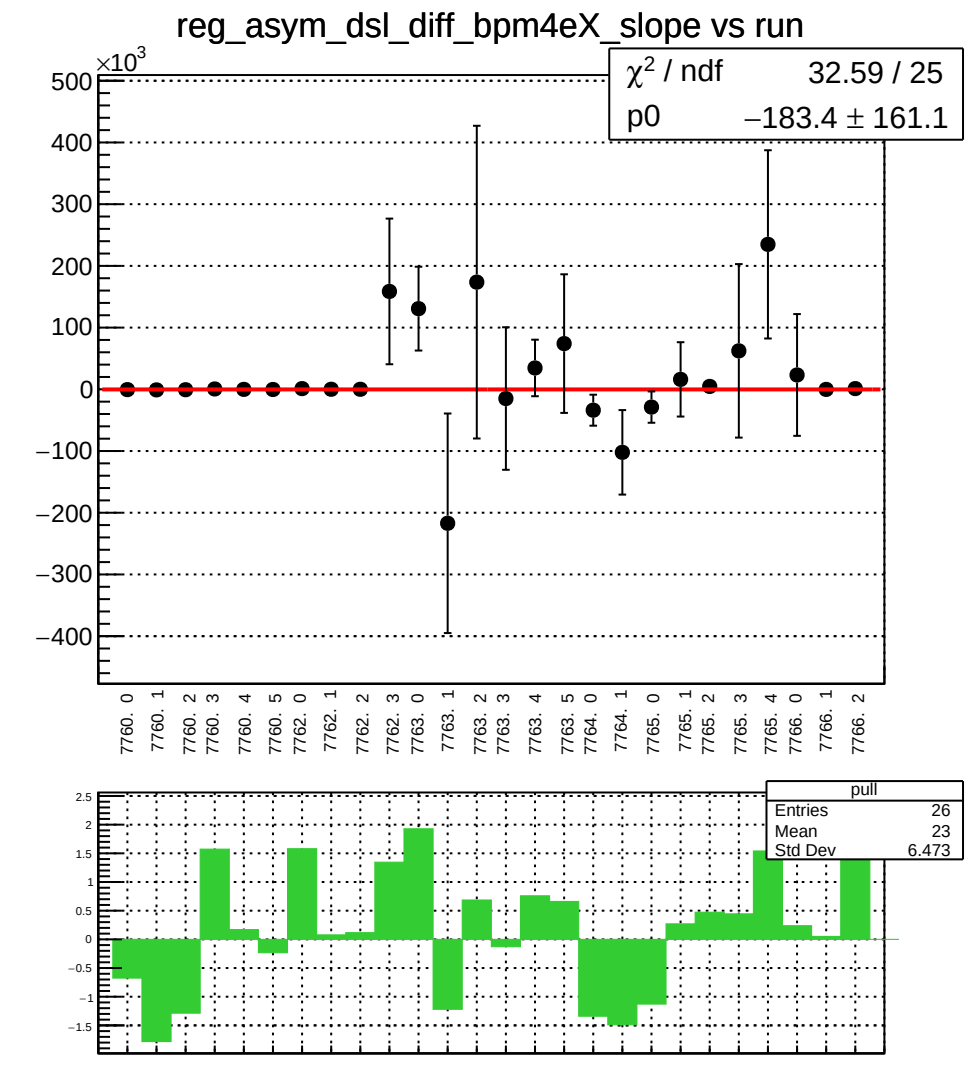

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 21.71 / 25
p0 −0.1122 ± 0.1006
0
−200
−400
−600
−800
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 14.27
Std Dev 1.313
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 26
Mean 0.07894
Std Dev 0.9103
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

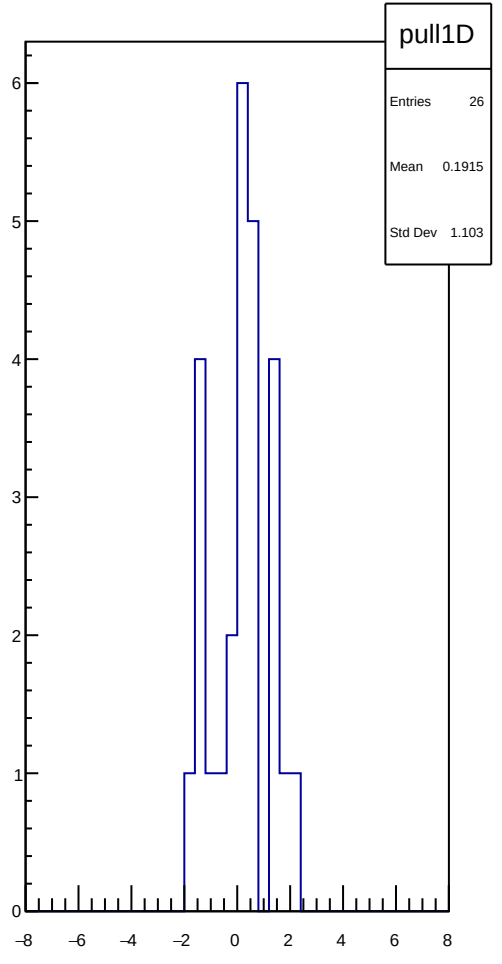

reg_asym_dsl_diff_bpm1X_slope vs run
×10^3
χ^2 / ndf 32.39 / 25
p0 216.7 ± 173.9
400
200
0
−200
−400
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 22.91
Std Dev 6.217
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

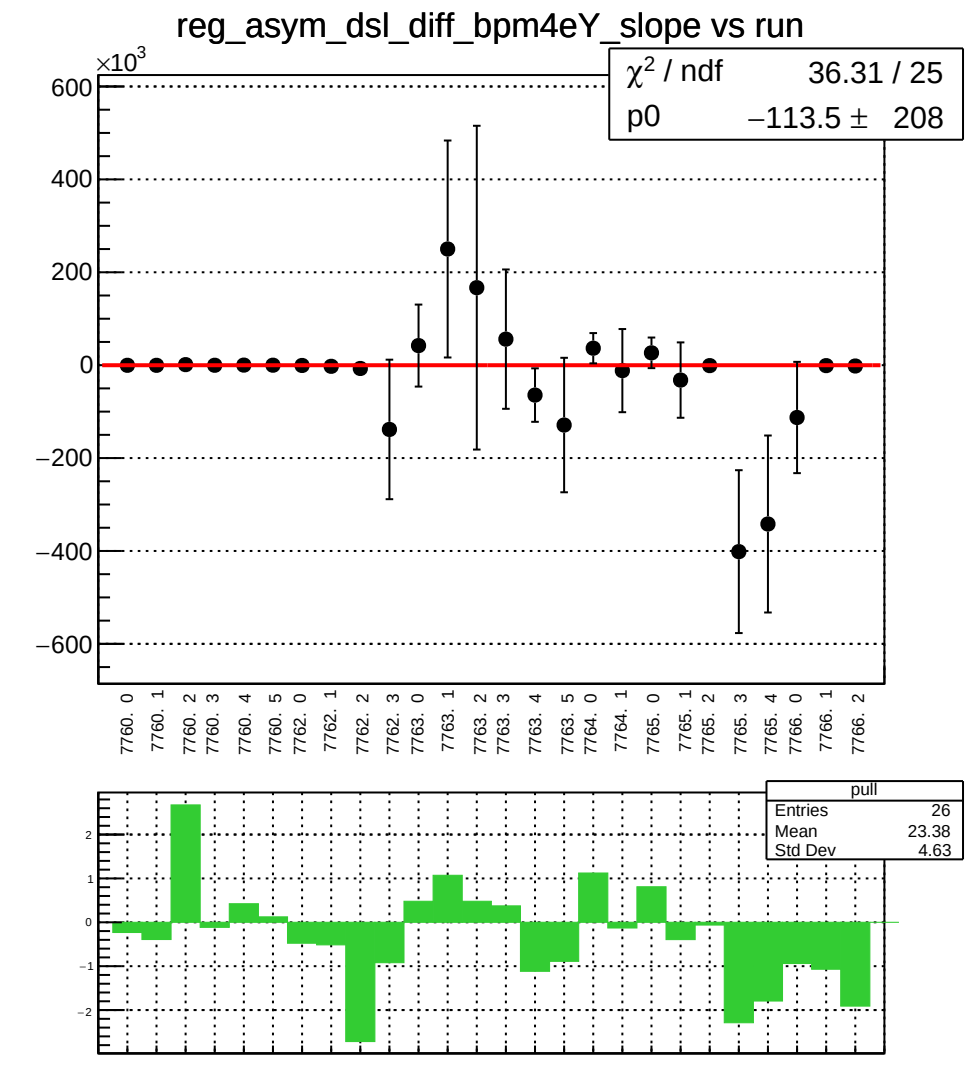

pull1D
Entries 26
Mean −0.1965
Std Dev 1.099
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

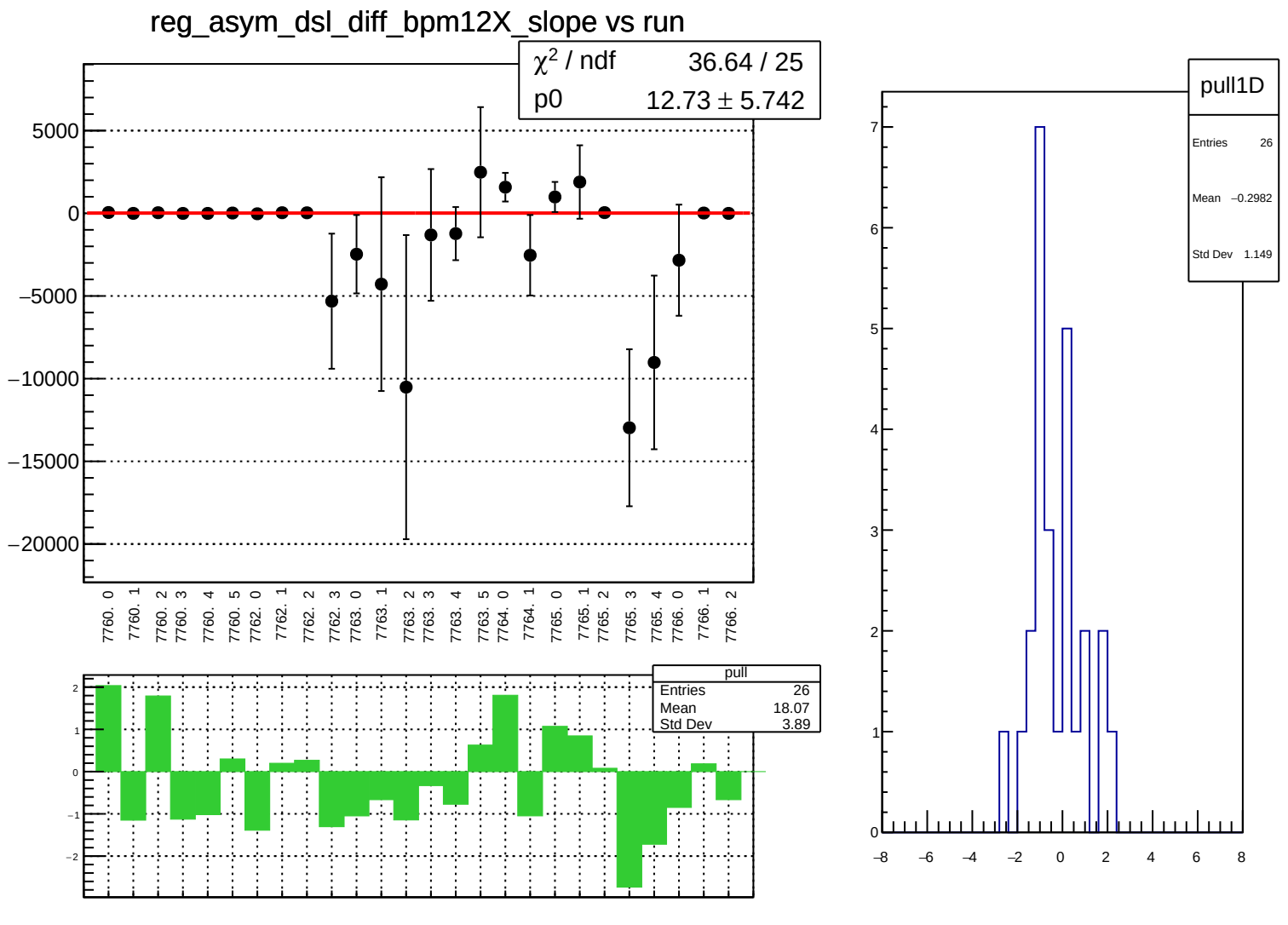

reg_asym_dsl_diff_bpm4aY_slope vs run
×10^3
χ^2 / ndf 35.34 / 25
p0 80.19 ± 184.6
400
200
0
−200
−400
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 23.12
Std Dev 3.412
2
1
0
−1
−2

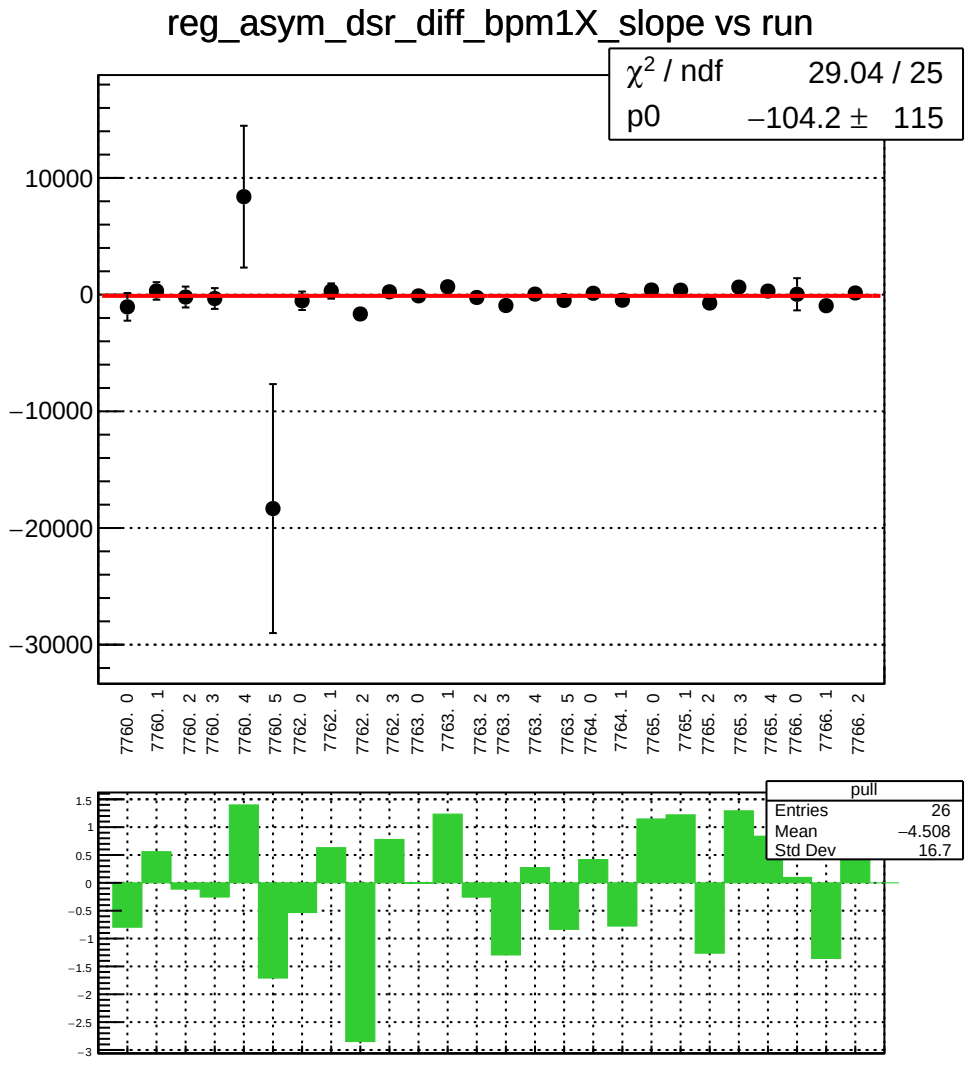

pull1D
Entries 26
Mean 0.3156
Std Dev 1.122
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

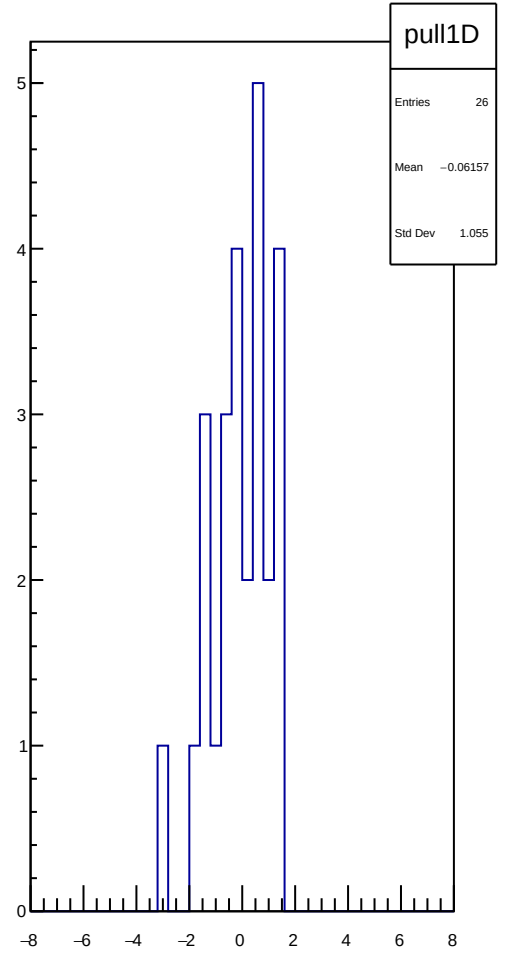

reg_asym_dsl_diff_bpm4eX_slope vs run
×10^3
χ^2 / ndf 32.59 / 25
p0 −183.4 ± 161.1
500
400
300
200
100
0
−100
−200
−300
−400
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 23
Std Dev 6.473
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

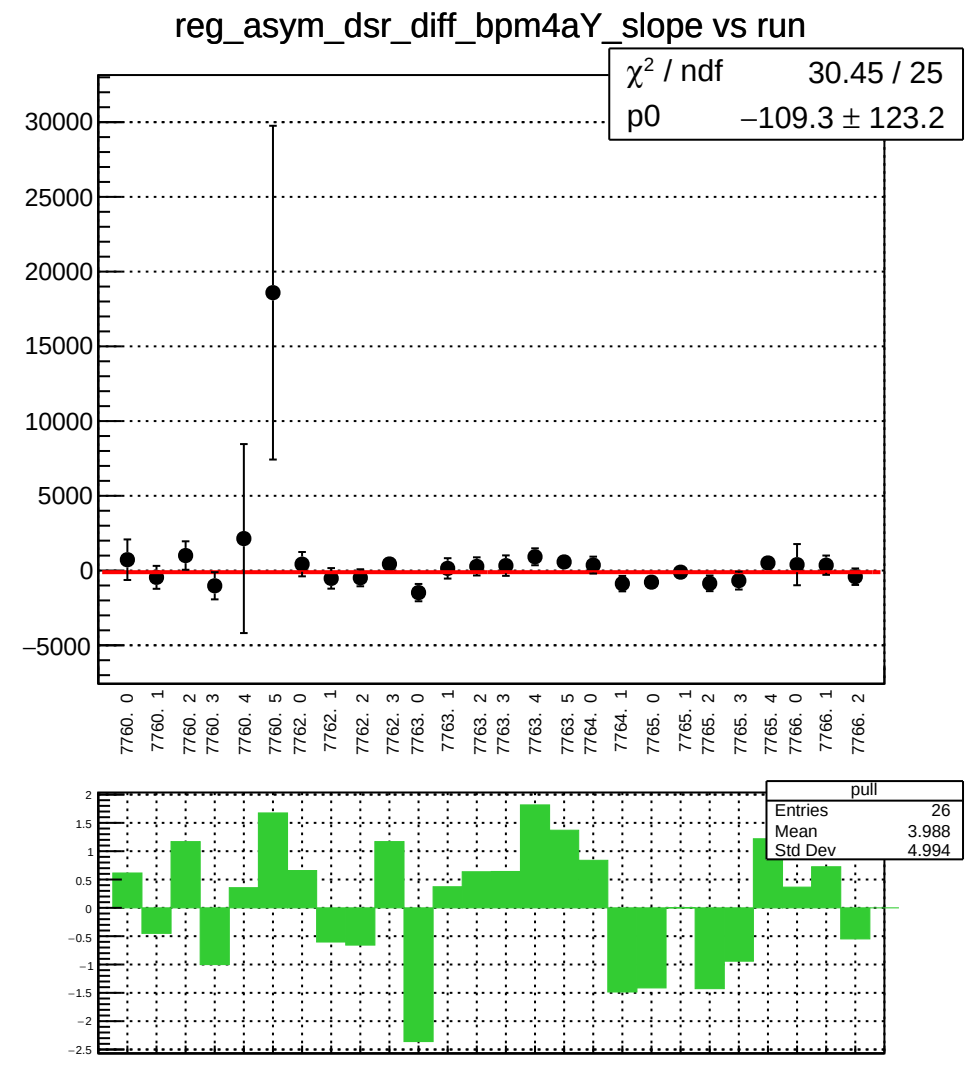

pull1D
Entries 26
Mean 0.1915
Std Dev 1.103
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

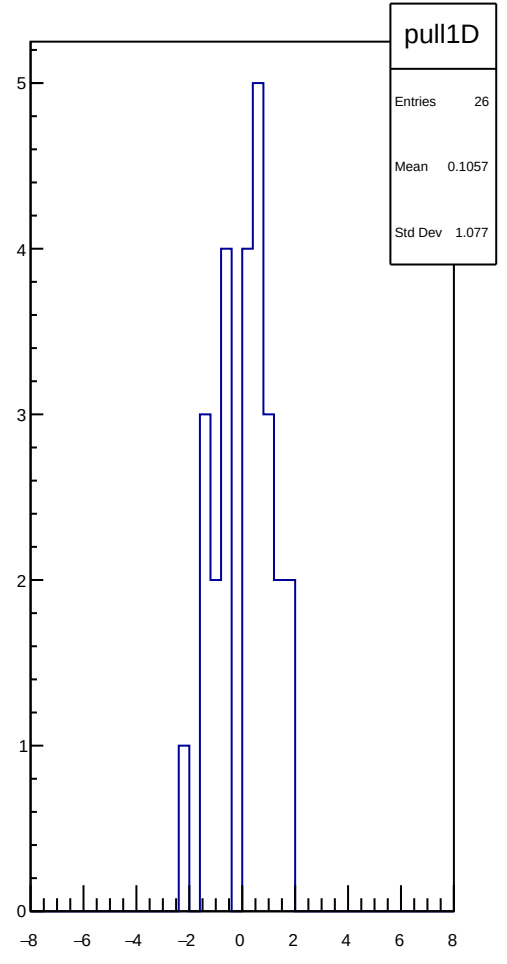

reg_asym_dsl_diff_bpm4eY_slope vs run
×10^3
χ^2 / ndf 36.31 / 25
p0 −113.5 ± 208
600
400
200
0
−200
−400
−600
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 23.38
Std Dev 4.63
2
1
0
−1
−2
pull1D
Entries 26
Mean −0.3232
Std Dev 1.137
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

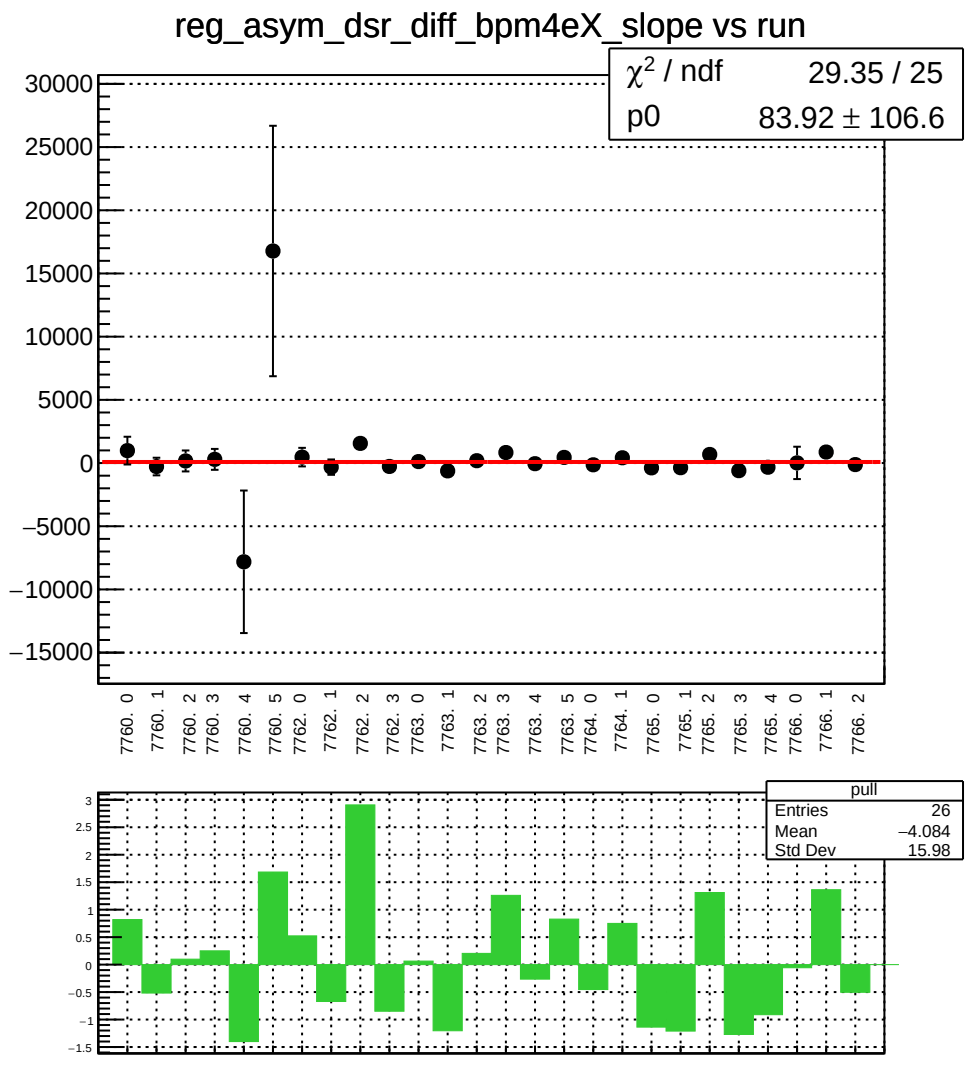

reg_asym_dsl_diff_bpm12X_slope vs run
χ^2 / ndf 36.64 / 25
p0 12.73 ± 5.742
5000
0
−5000
−10000
−15000
−20000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 18.07
Std Dev 3.89
pull1D
Entries 26
Mean −0.2982
Std Dev 1.149

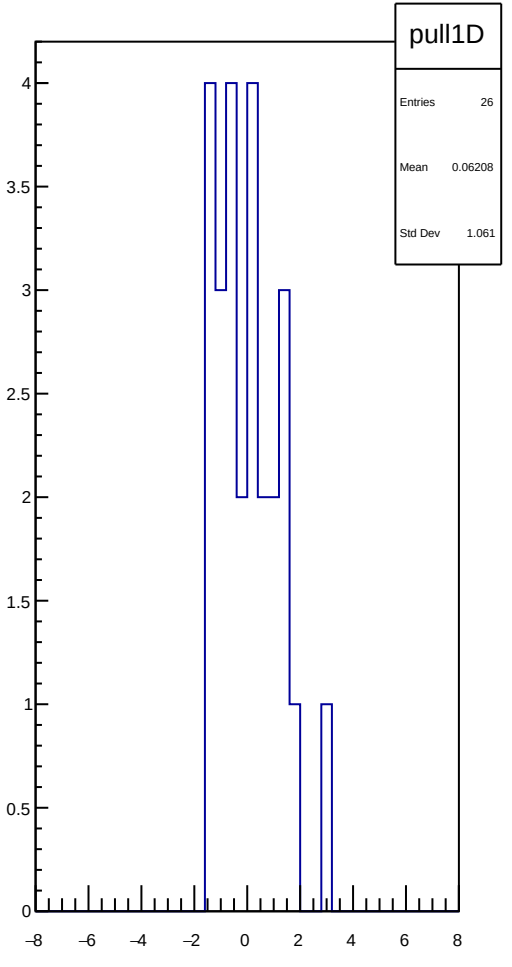

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 29.04 / 25
p0 −104.2 ± 115
10000
0
−10000
−20000
−30000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −4.508
Std Dev 16.7
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

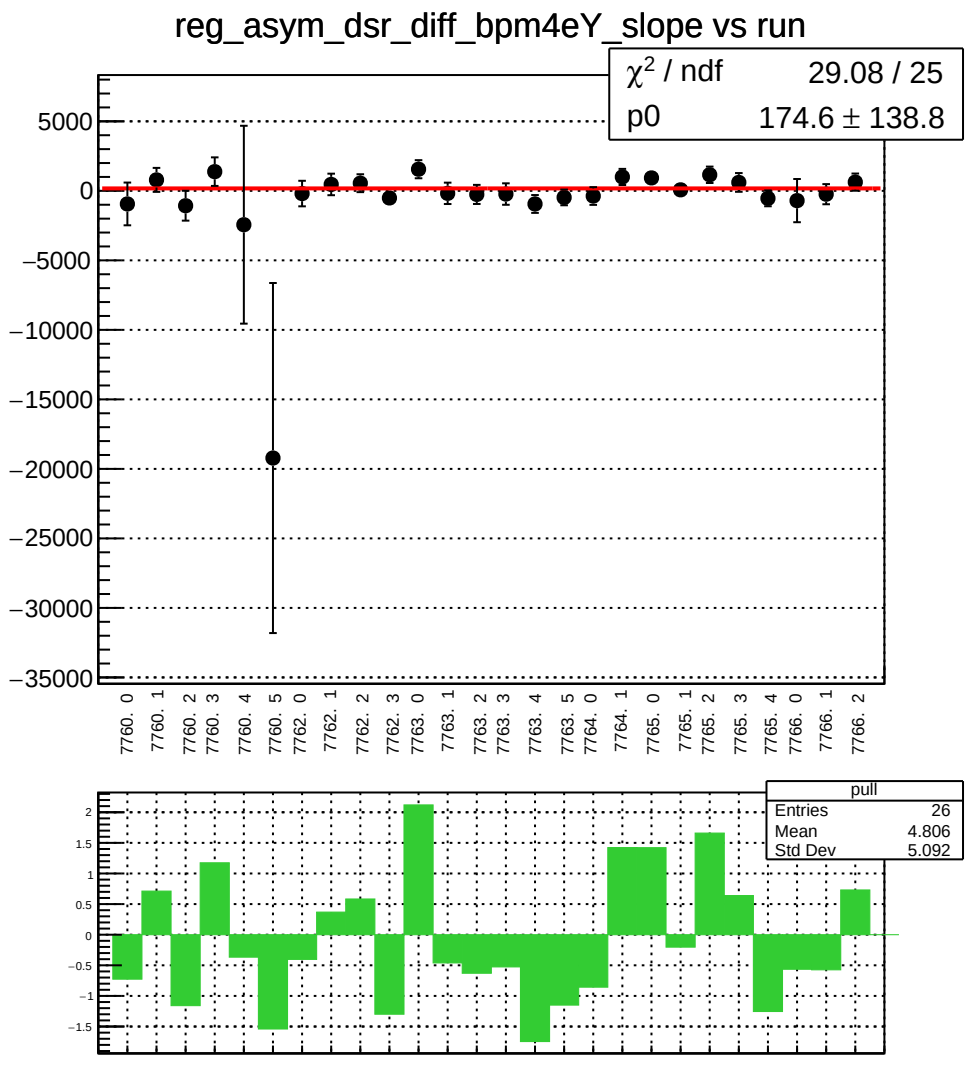

pull1D
Entries 26
Mean −0.06157
Std Dev 1.055
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

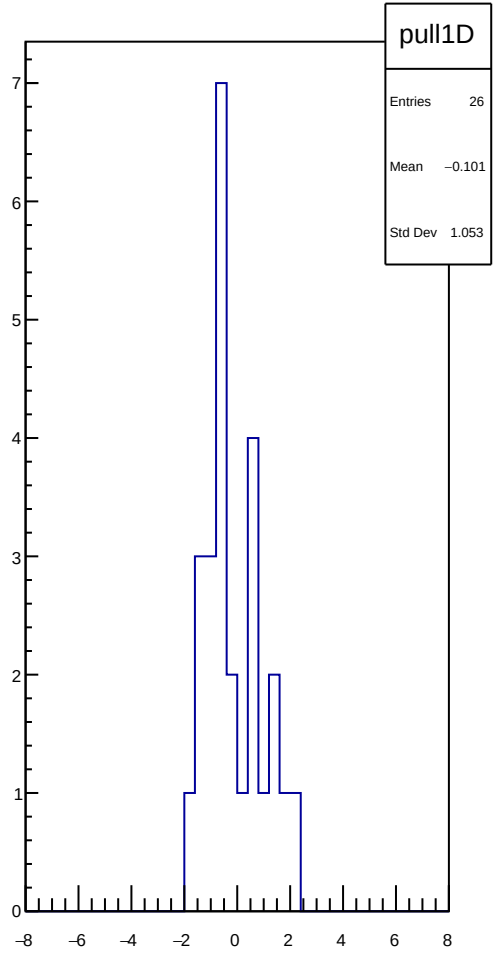

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 30.45 / 25
p0 −109.3 ± 123.2
30000
25000
20000
15000
10000
5000
0
−5000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 3.988
Std Dev 4.994
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

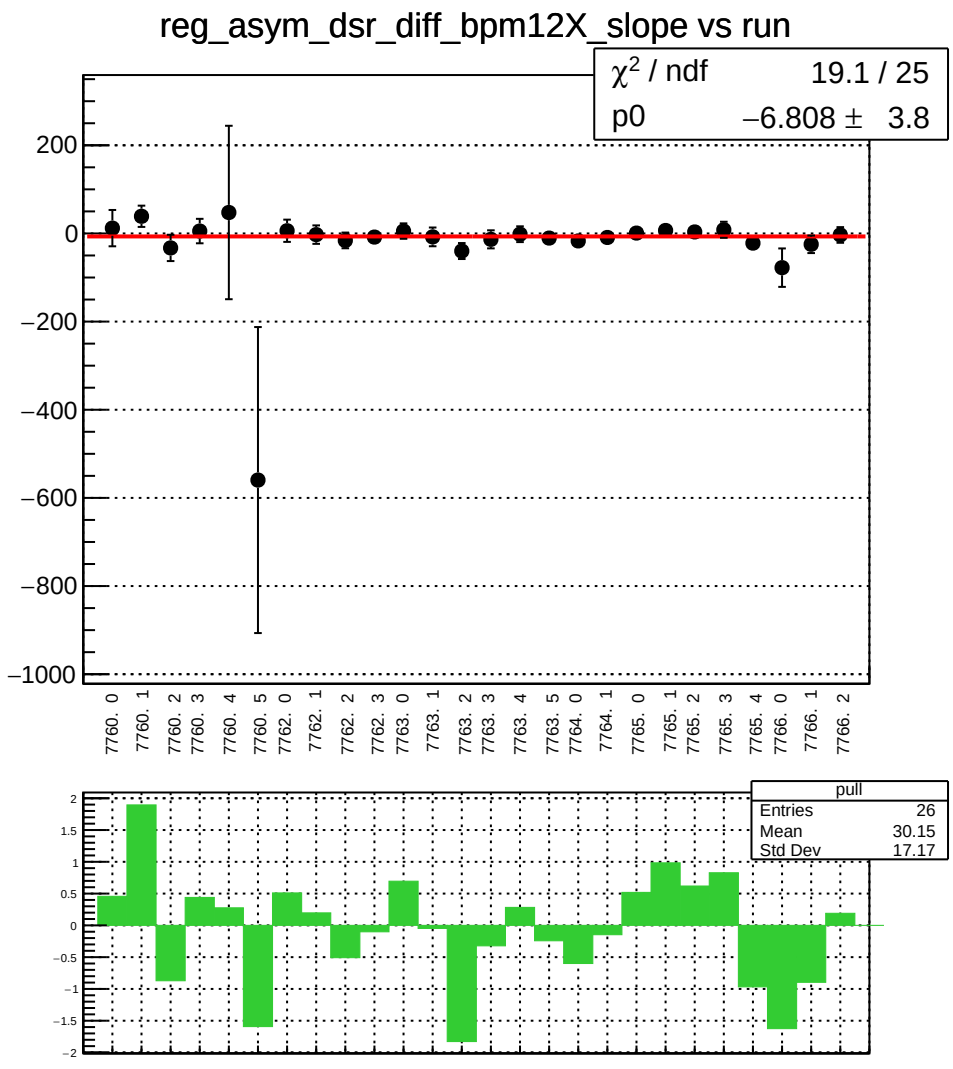

pull1D
Entries 26
Mean 0.1057
Std Dev 1.077
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

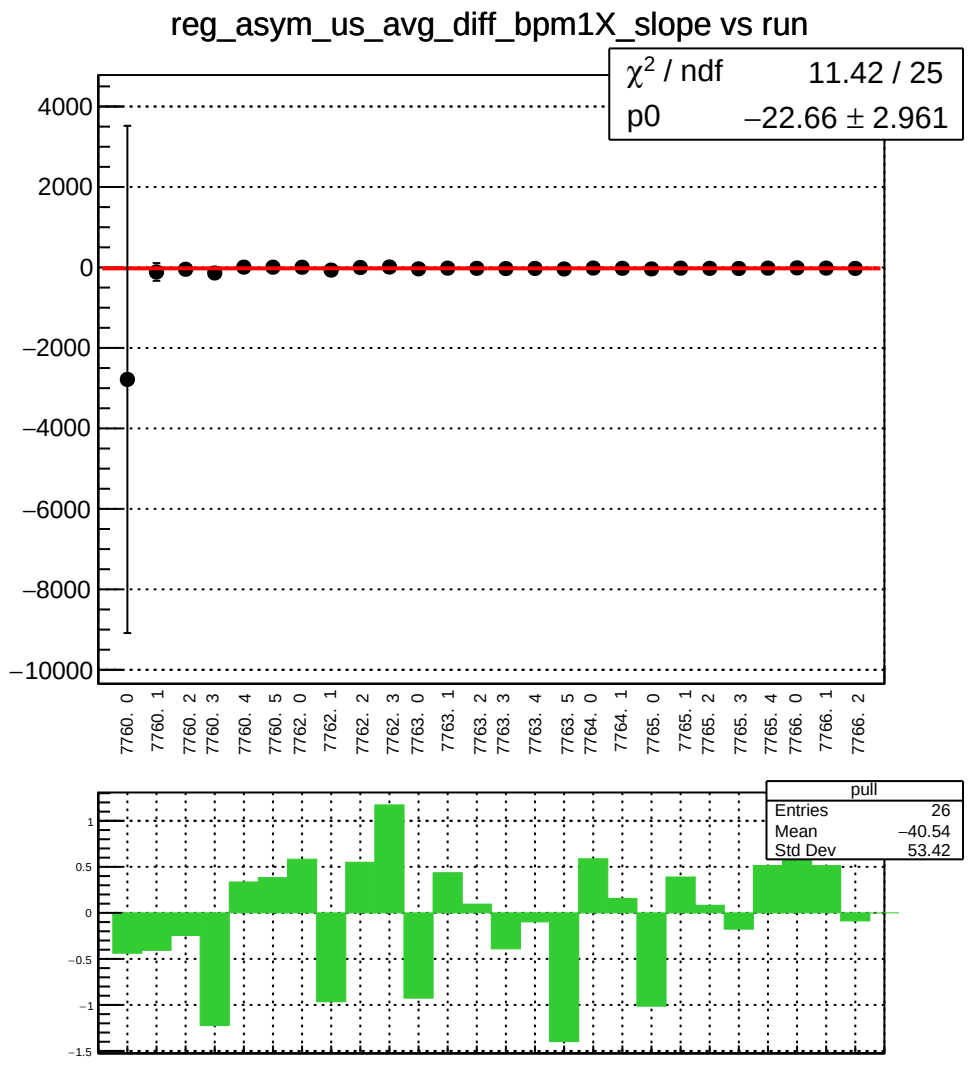

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 29.35 / 25
p0 83.92 ± 106.6
30000
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −4.084
Std Dev 15.98
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

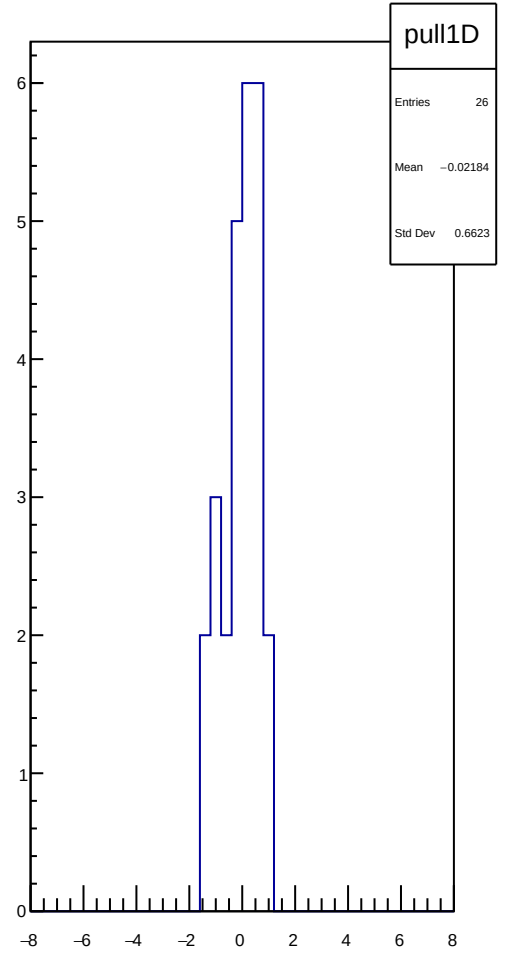

pull1D
Entries 26
Mean 0.06208
Std Dev 1.061
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

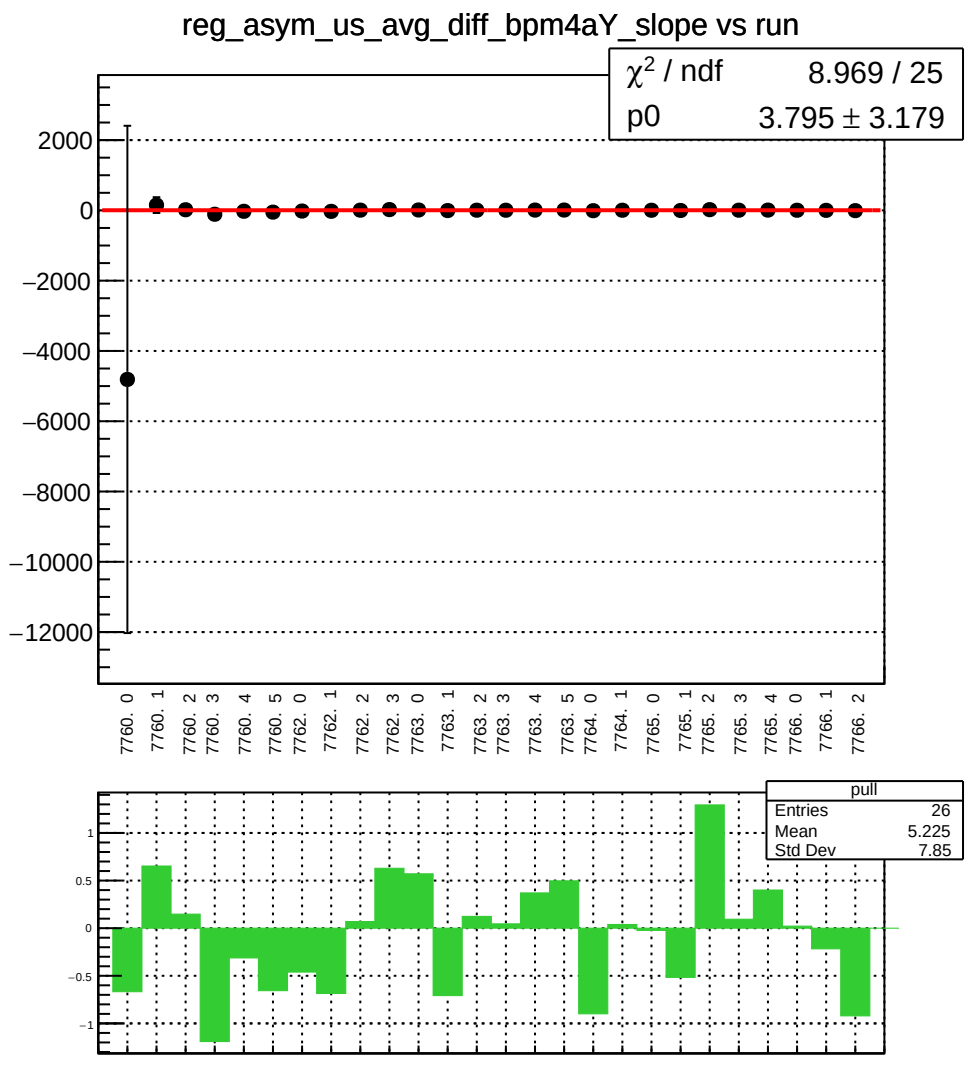

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 29.08 / 25
p0 174.6 ± 138.8
5000
0
−5000
−10000
−15000
−20000
−25000
−30000
−35000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 4.806
Std Dev 5.092
2
1.5
1
0.5
0
−0.5
−1
−1.5

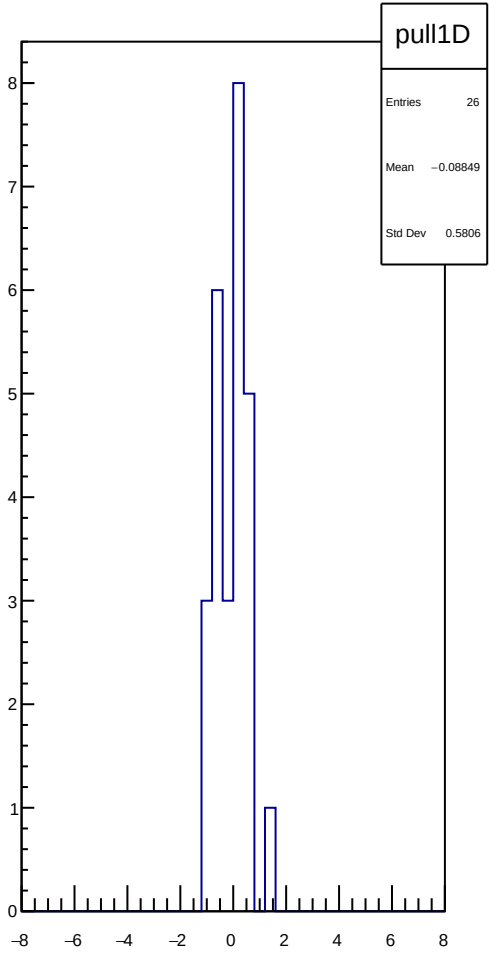

pull1D
Entries 26
Mean −0.101
Std Dev 1.053
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

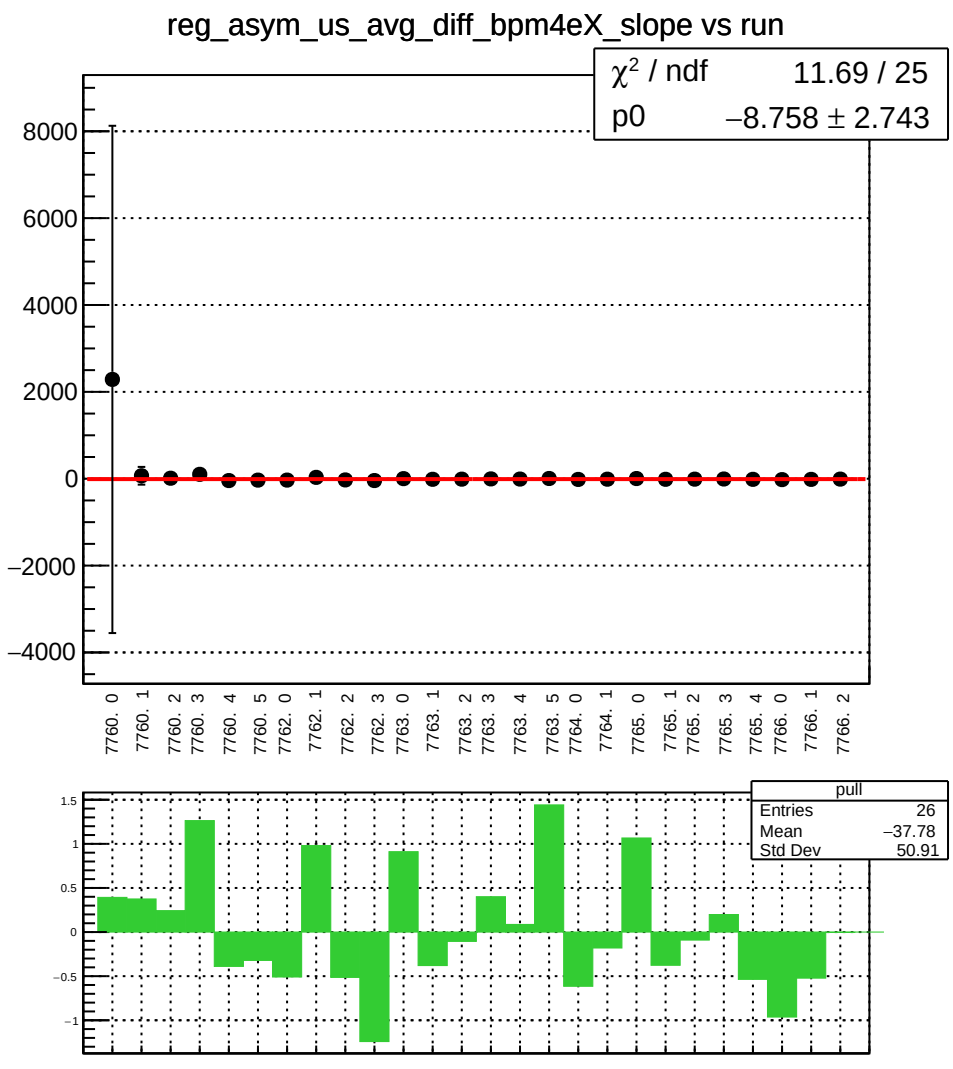

reg_asym_dsr_diff_bpm12X_slope vs run
χ2 / ndf 19.1 / 25
p0 −6.808 ± 3.8
200
0
−200
−400
−600
−800
−1000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 30.15
Std Dev 17.17
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 26
Mean −0.07133
Std Dev 0.8541
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

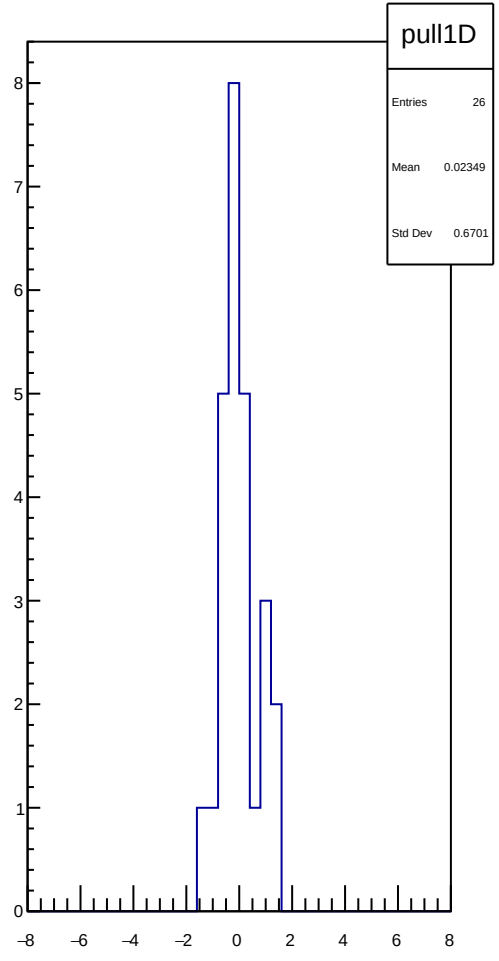

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 11.42 / 25
p0 −22.66 ± 2.961
4000
2000
0
−2000
−4000
−6000
−8000
−10000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −40.54
Std Dev 53.42
1
0.5
0
−0.5
−1
−1.5

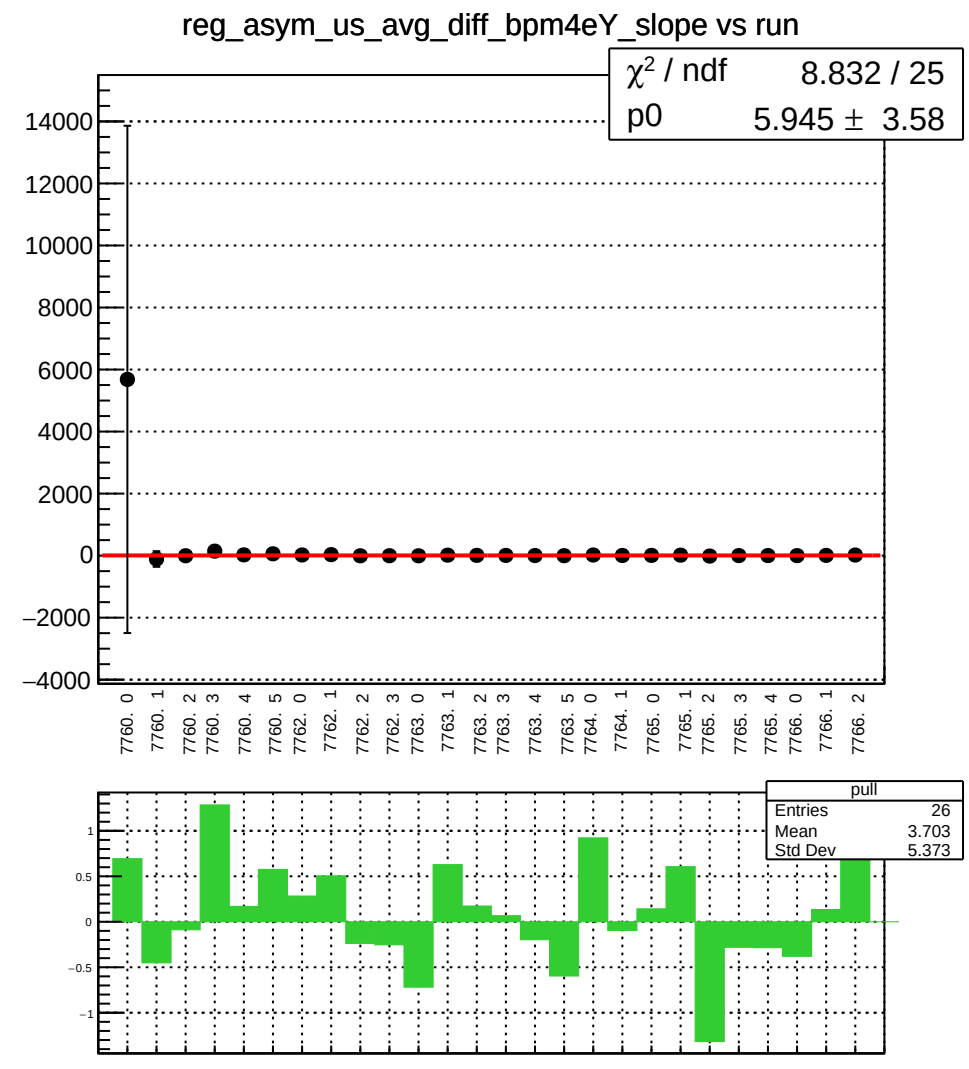

pull1D
Entries 26
Mean −0.02184
Std Dev 0.6623
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

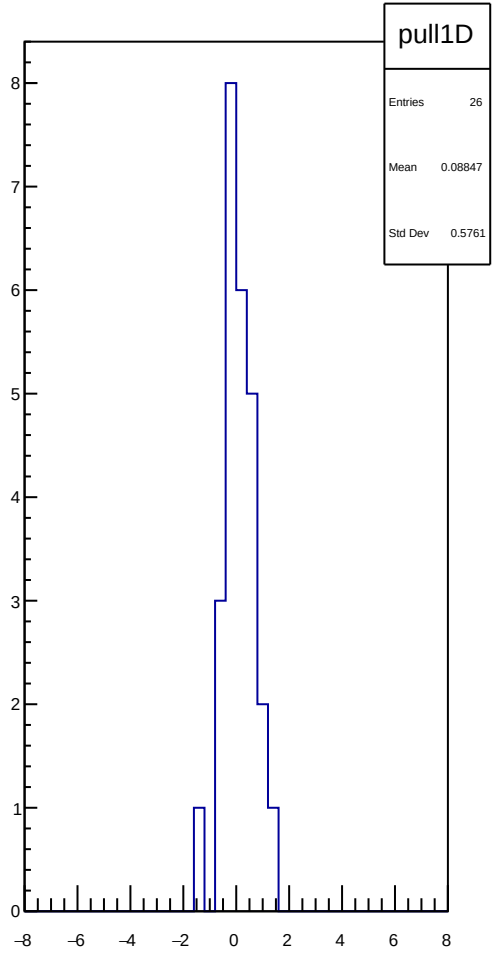

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.969 / 25
p0 3.795 ± 3.179
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 5.225
Std Dev 7.85
1
0.5
0
−0.5
−1

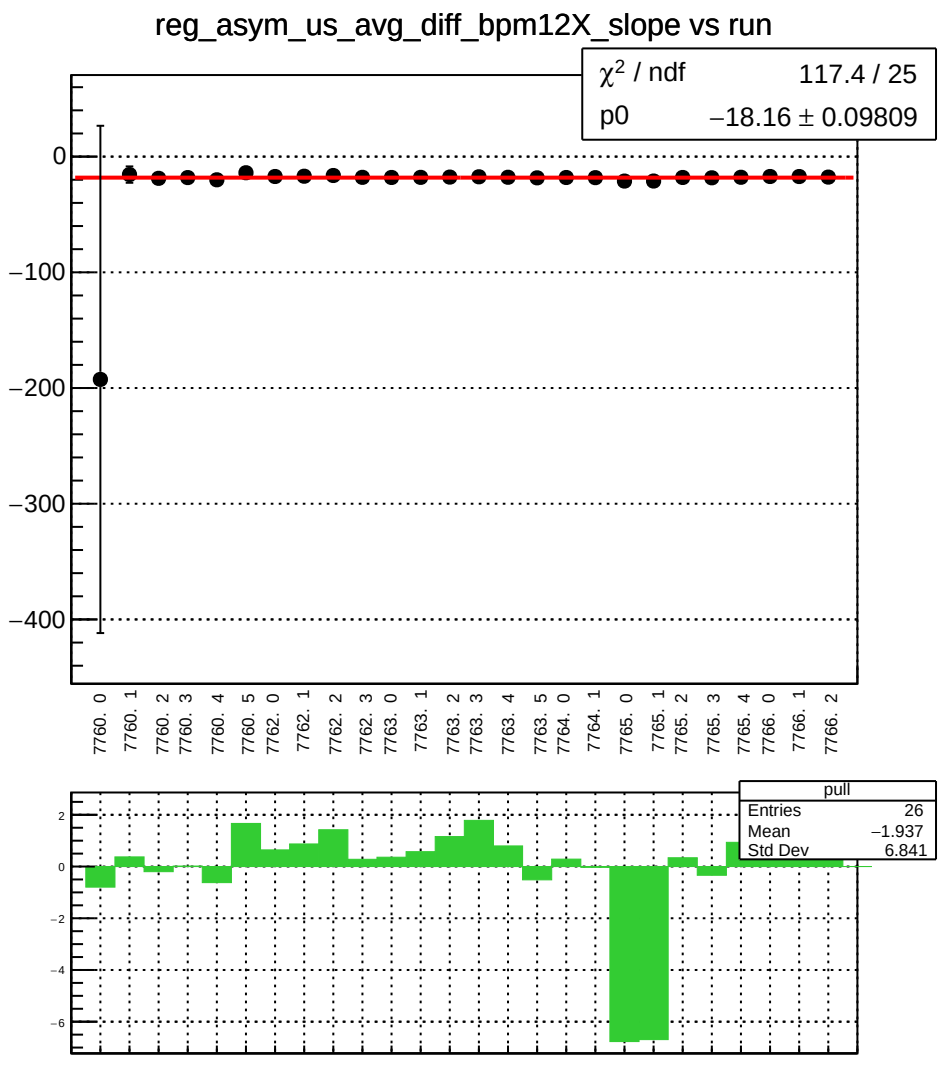

pull1D
Entries 26
Mean −0.08849
Std Dev 0.5806
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

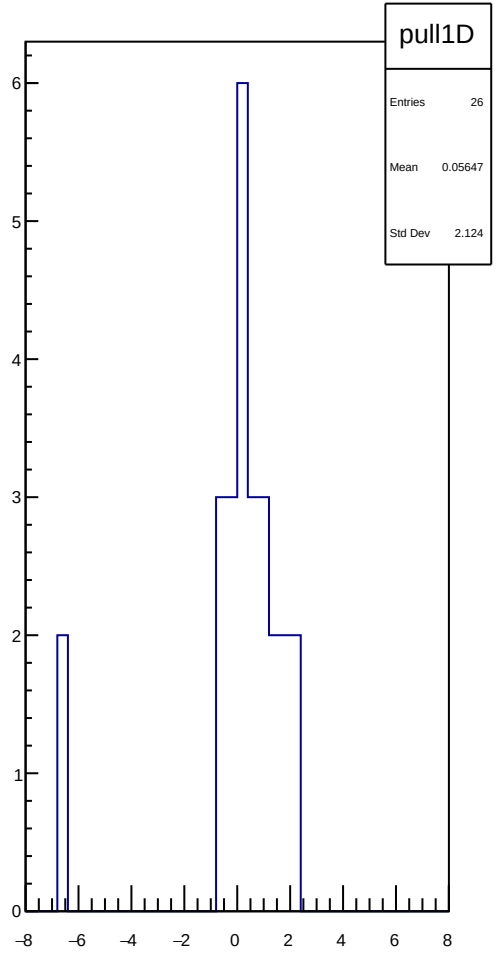

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 11.69 / 25
p0 −8.758 ± 2.743
8000
6000
4000
2000
0
−2000
−4000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −37.78
Std Dev 50.91
1.5
1
0.5
0
−0.5
−1

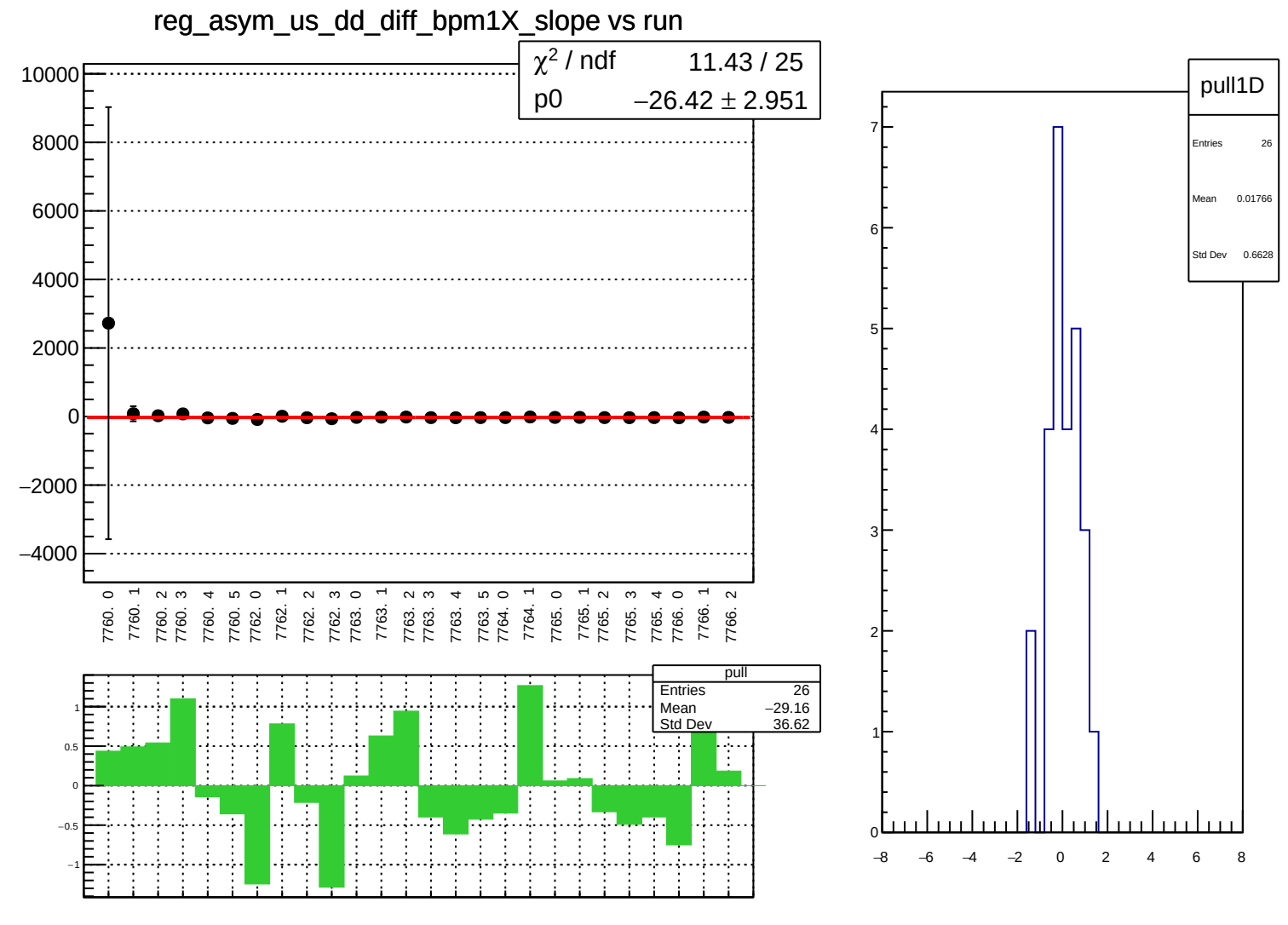

pull1D
Entries 26
Mean 0.02349
Std Dev 0.6701
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

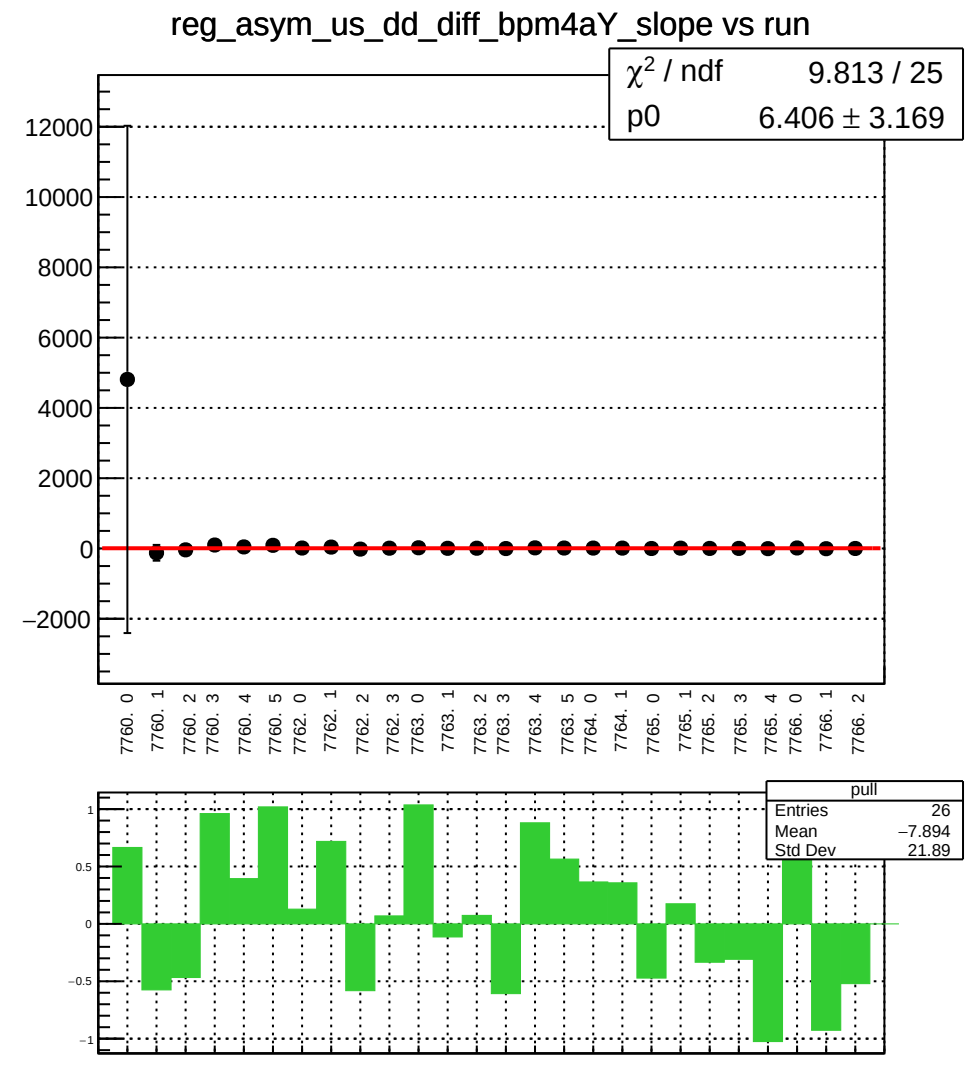

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.832 / 25
p0 5.945 ± 3.58
14000
12000
10000
8000
6000
4000
2000
0
−2000
−4000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 3.703
Std Dev 5.373
1
0.5
0
−0.5
−1

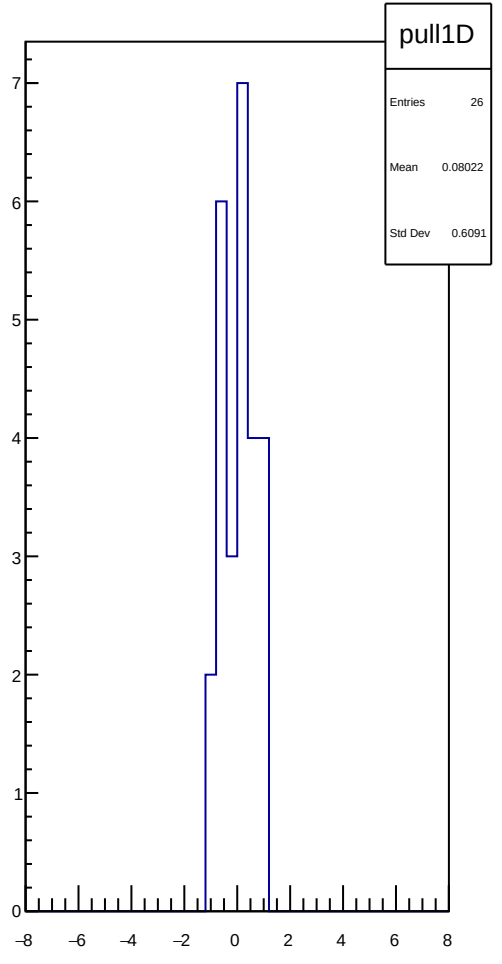

pull1D
Entries 26
Mean 0.08847
Std Dev 0.5761
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

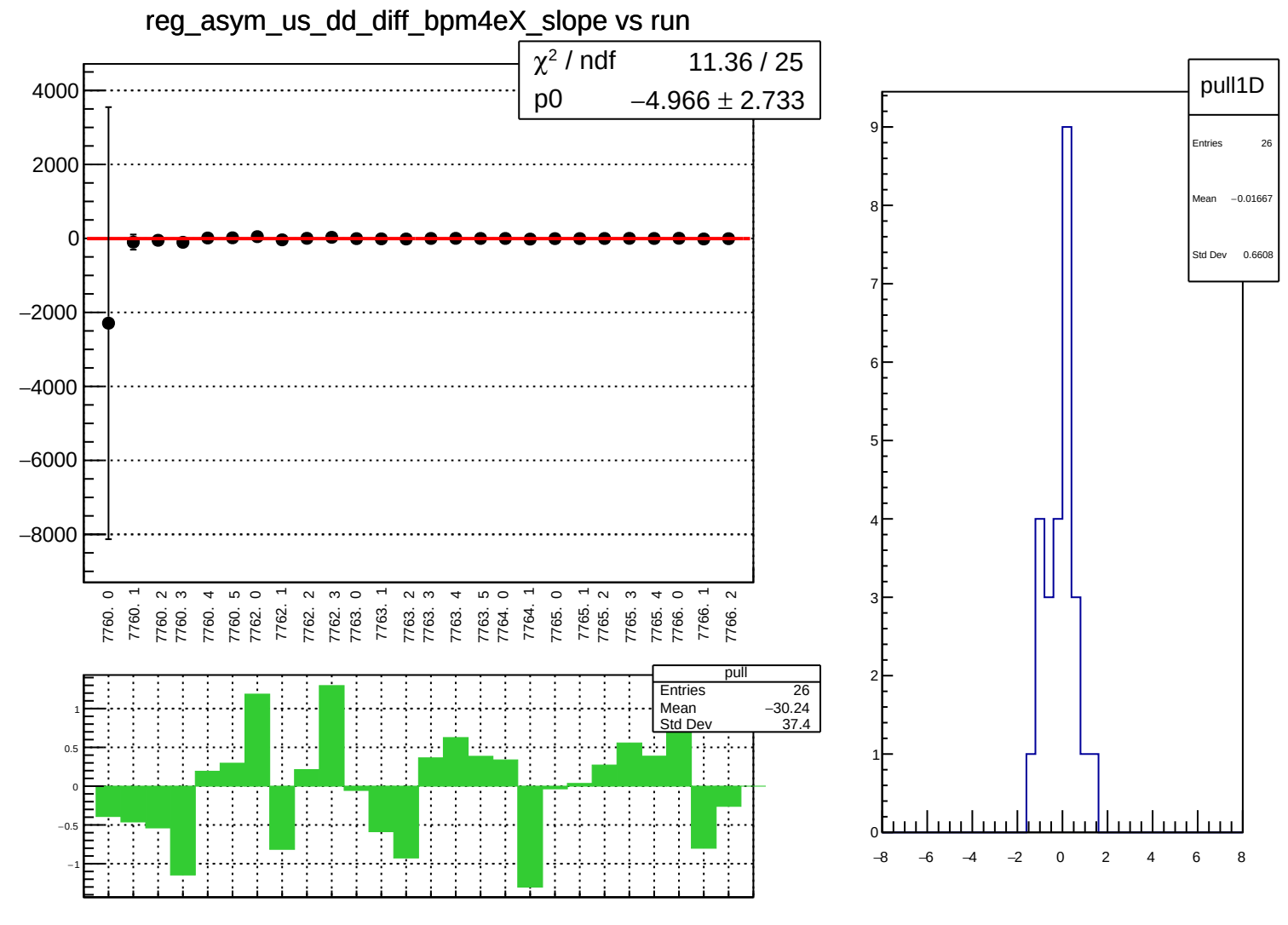

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 117.4 / 25
p0 −18.16 ± 0.09809
0
−100
−200
−300
−400
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −1.937
Std Dev 6.841
2
0
−2
−4
−6

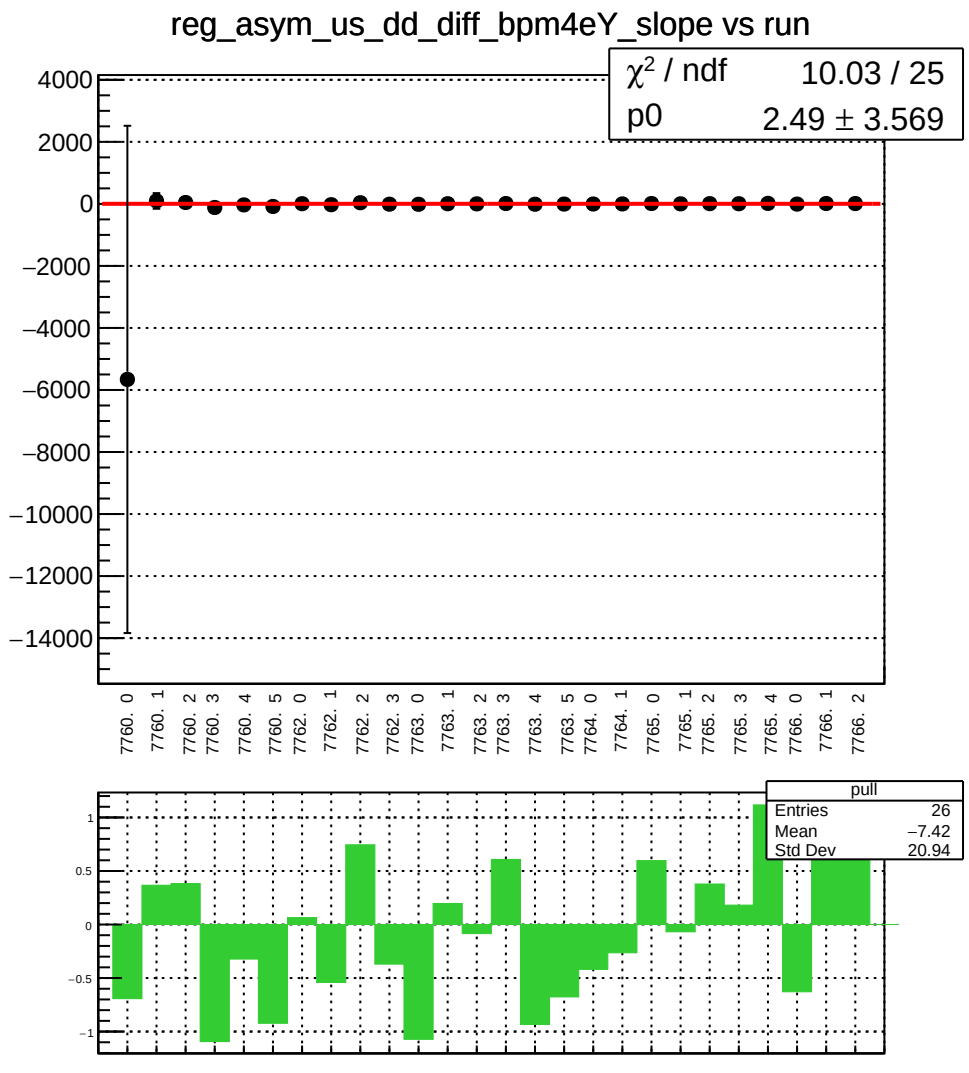

pull1D
Entries 26
Mean 0.05647
Std Dev 2.124
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

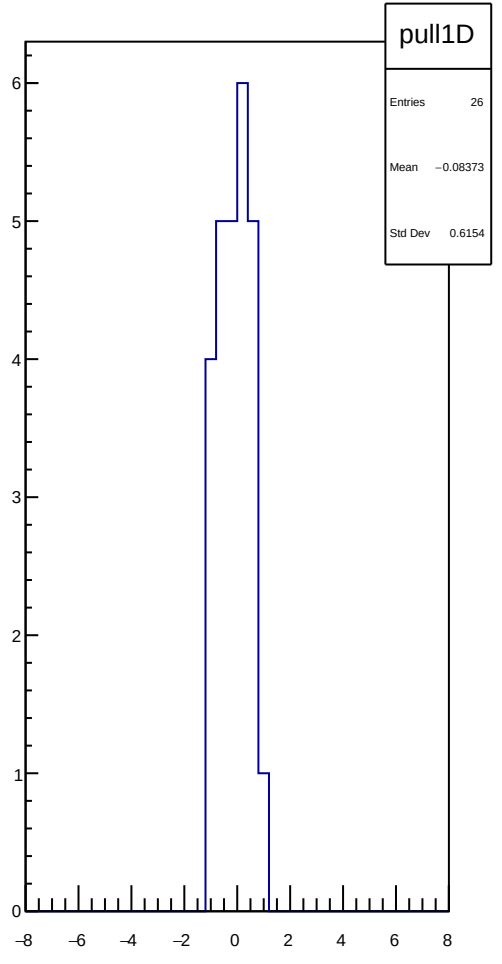

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 11.43 / 25
p0 −26.42 ± 2.951
10000
8000
6000
4000
2000
0
−2000
−4000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −29.16
Std Dev 36.62
1
0.5
0
−0.5
−1
pull1D
Entries 26
Mean 0.01766
Std Dev 0.6628
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

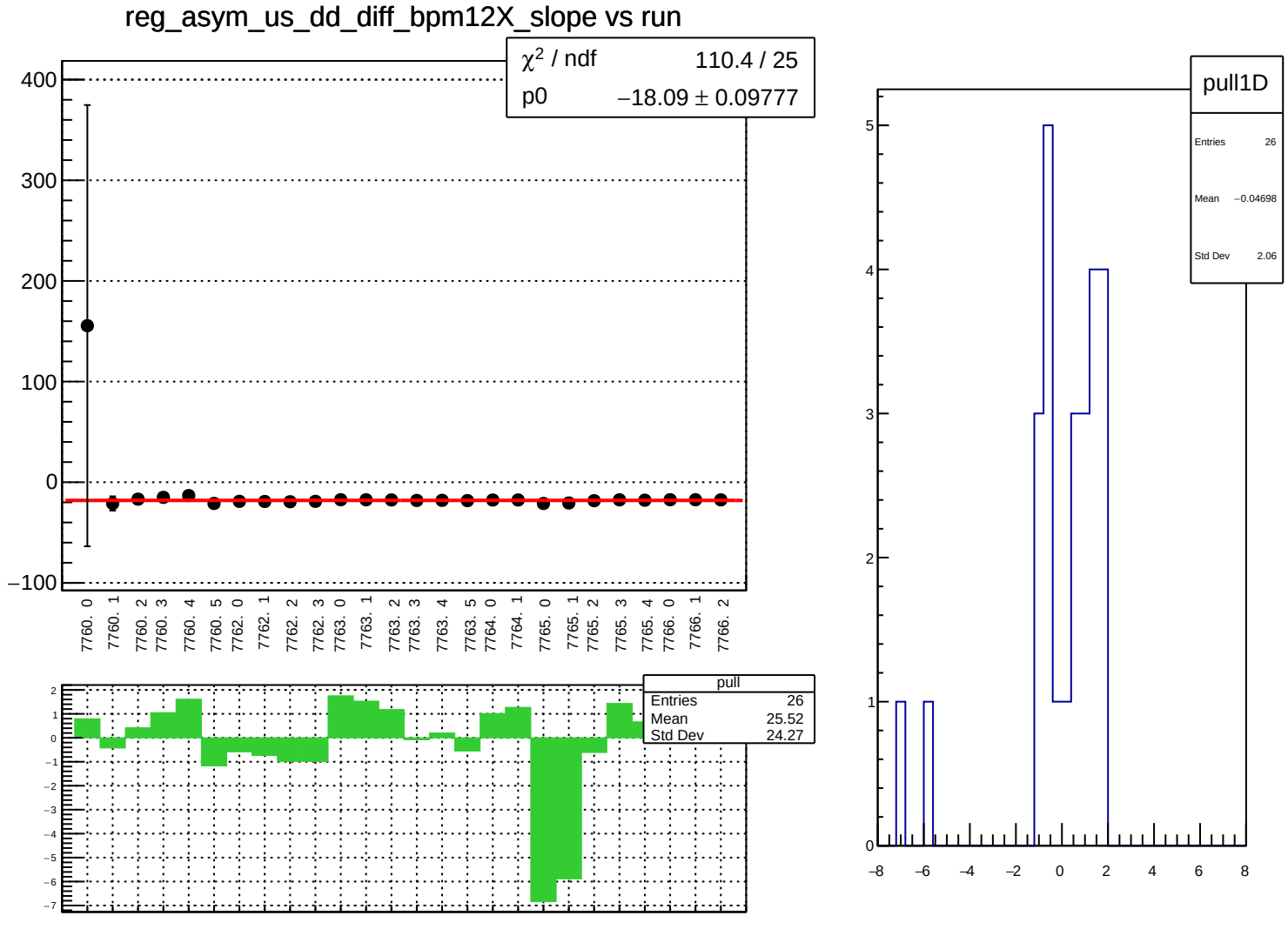

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.813 / 25
p0 6.406 ± 3.169
12000
10000
8000
6000
4000
2000
0
−2000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −7.894
Std Dev 21.89
1
0.5
0
−0.5
−1

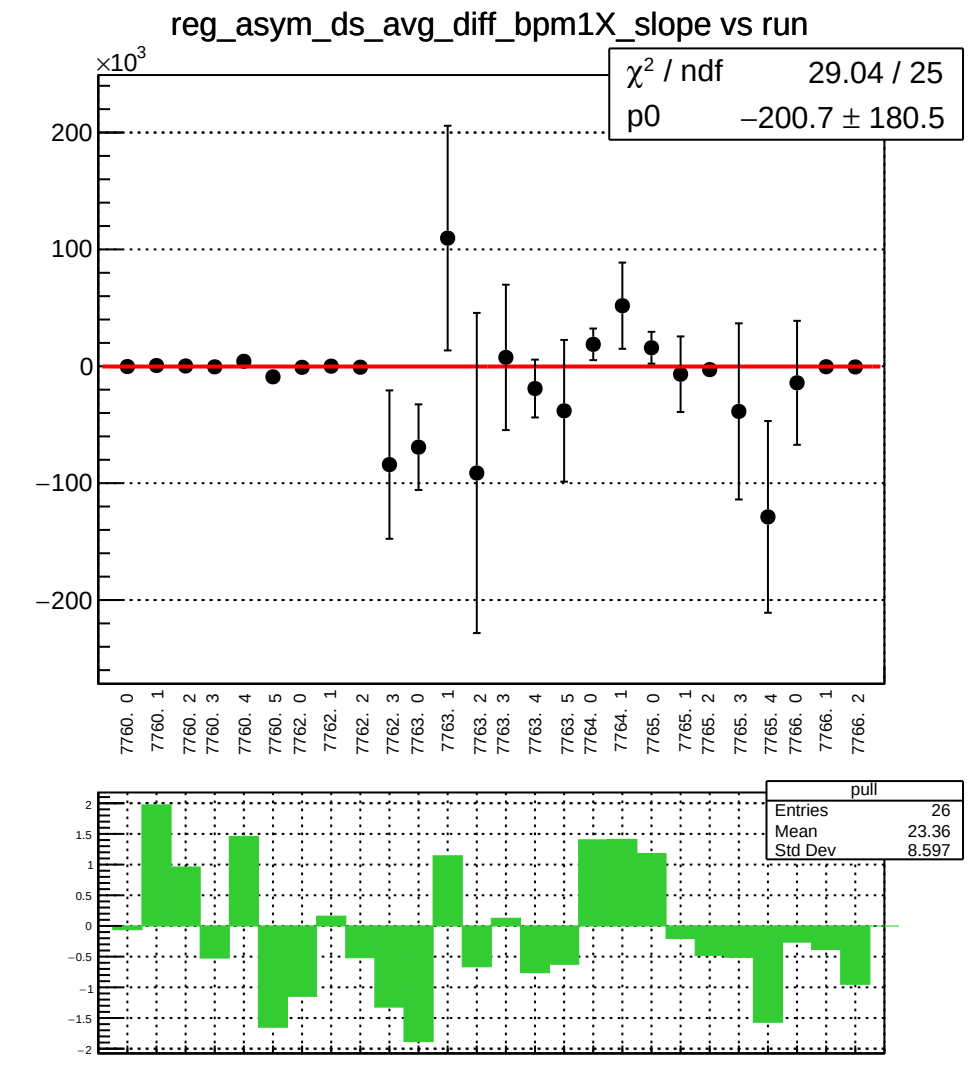

pull1D
Entries 26
Mean 0.08022
Std Dev 0.6091
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

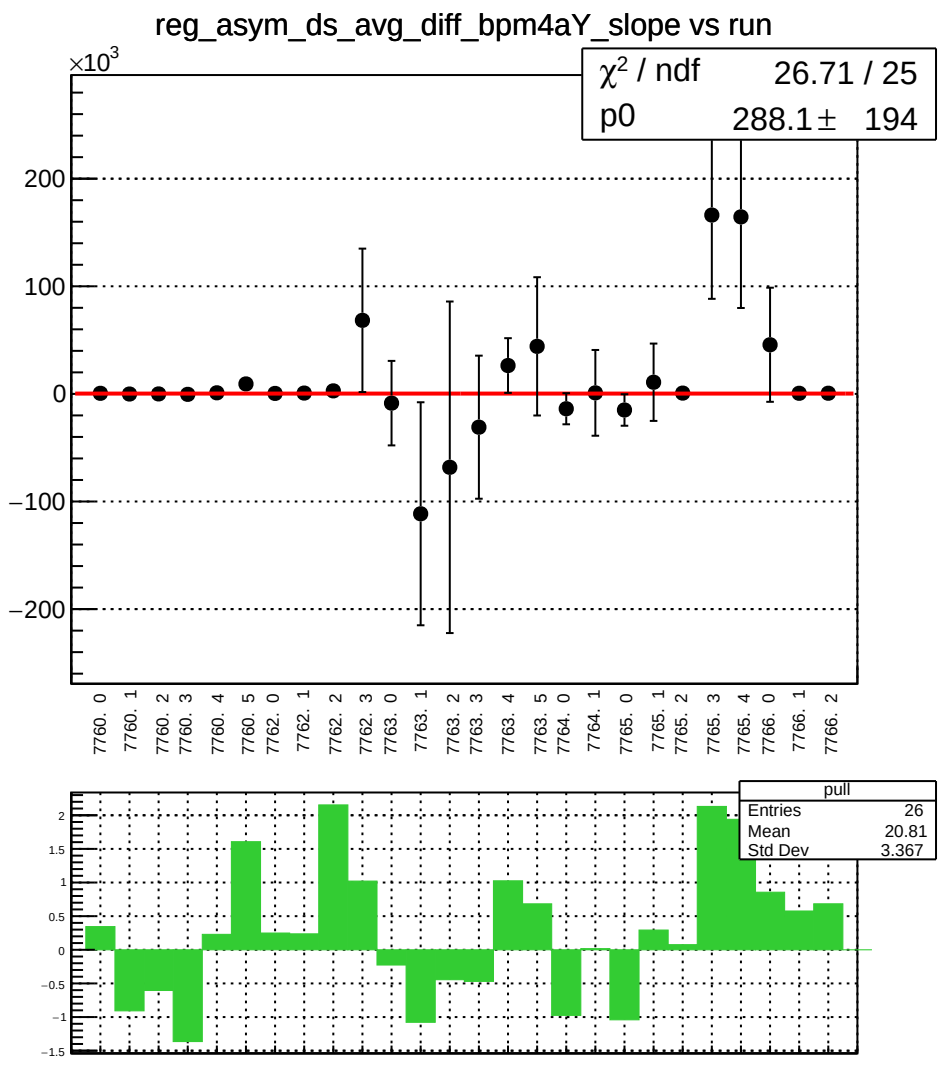

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 11.36 / 25
p0 −4.966 ± 2.733
4000
2000
0
−2000
−4000
−6000
−8000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −30.24
Std Dev 37.4
1
0.5
0
−0.5
−1
pull1D
Entries 26
Mean −0.01667
Std Dev 0.6608
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

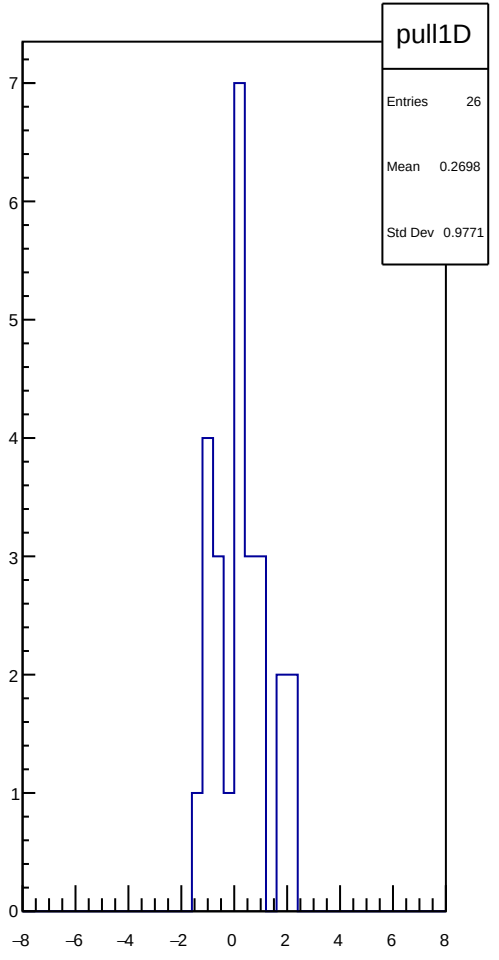

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 10.03 / 25
p0 2.49 ± 3.569
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
−14000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −7.42
Std Dev 20.94
1
0.5
0
−0.5
−1

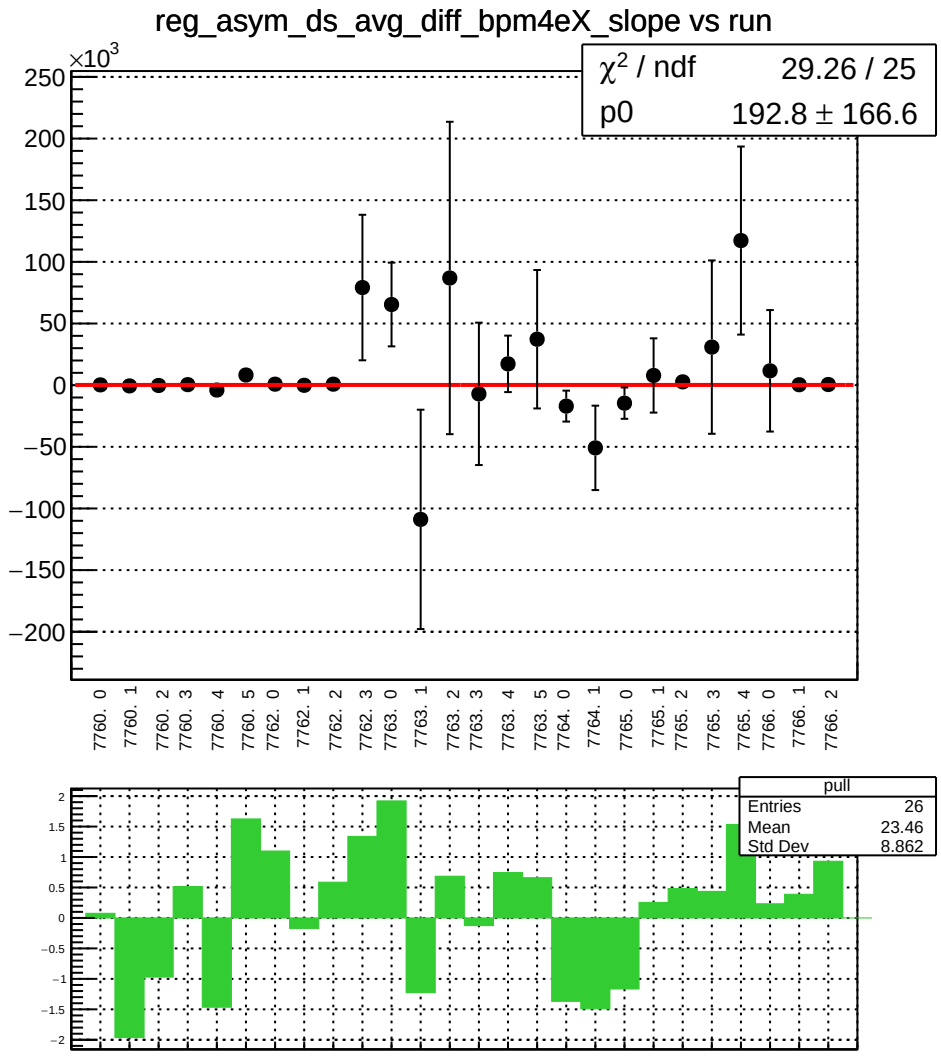

pull1D
Entries 26
Mean −0.08373
Std Dev 0.6154
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

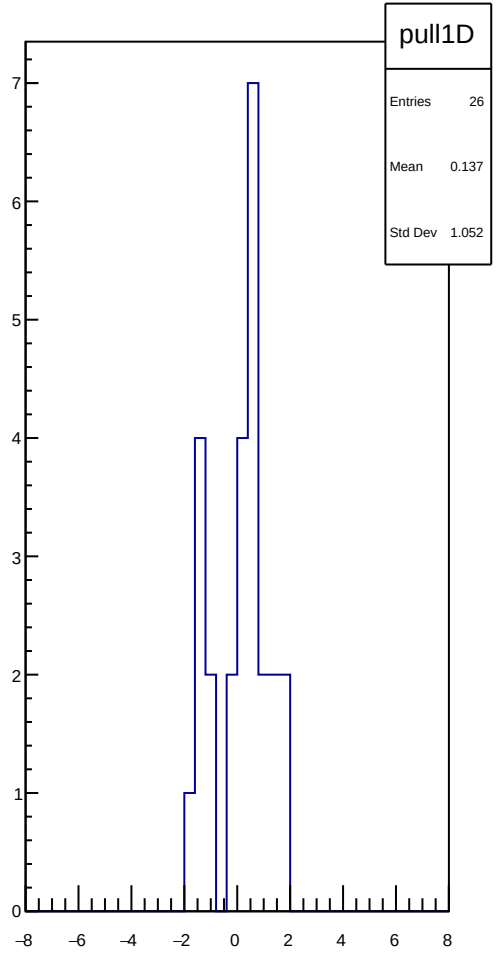

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 110.4 / 25
p0 −18.09 ± 0.09777
400
300
200
100
0
−100
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 25.52
Std Dev 24.27
2
1
0
−1
−2
−3
−4
−5
−6
−7
pull1D
Entries 26
Mean −0.04698
Std Dev 2.06
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

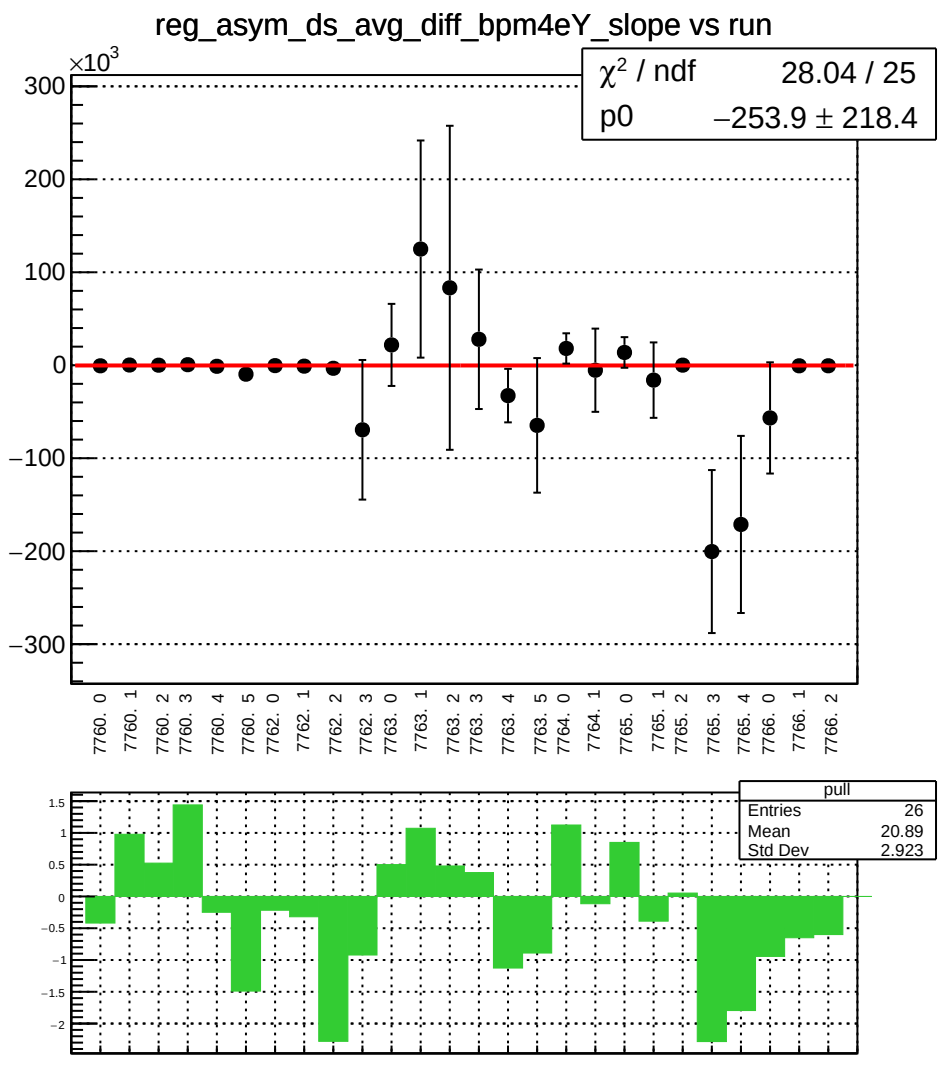

reg_asym_ds_avg_diff_bpm1X_slope vs run
×10^3
χ² / ndf 29.04 / 25
p0 −200.7 ± 180.5
200
100
0
−100
−200
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 23.36
Std Dev 8.597
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 26
Mean −0.1423
Std Dev 1.047
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

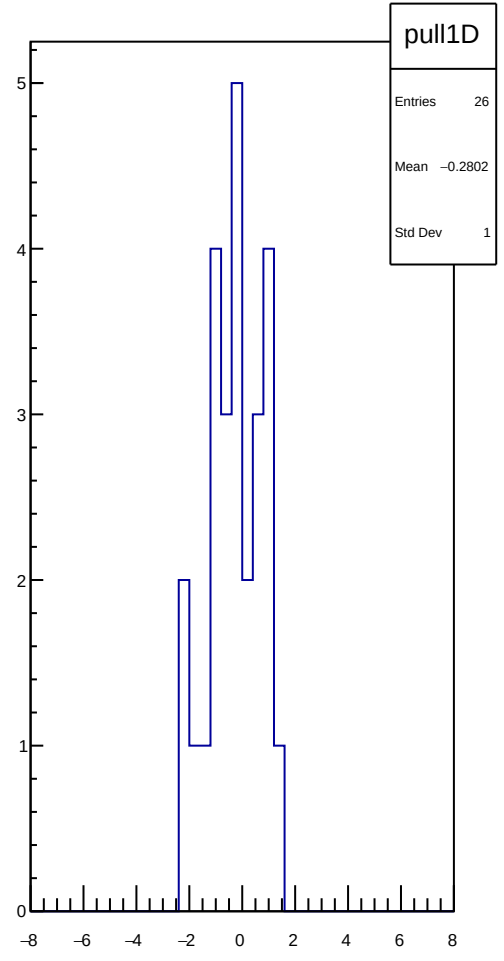

reg_asym_ds_avg_diff_bpm4aY_slope vs run
×10^3
χ² / ndf 26.71 / 25
p0 288.1 ± 194
200
100
0
−100
−200
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 20.81
Std Dev 3.367
2
1.5
1
0.5
0
−0.5
−1
−1.5

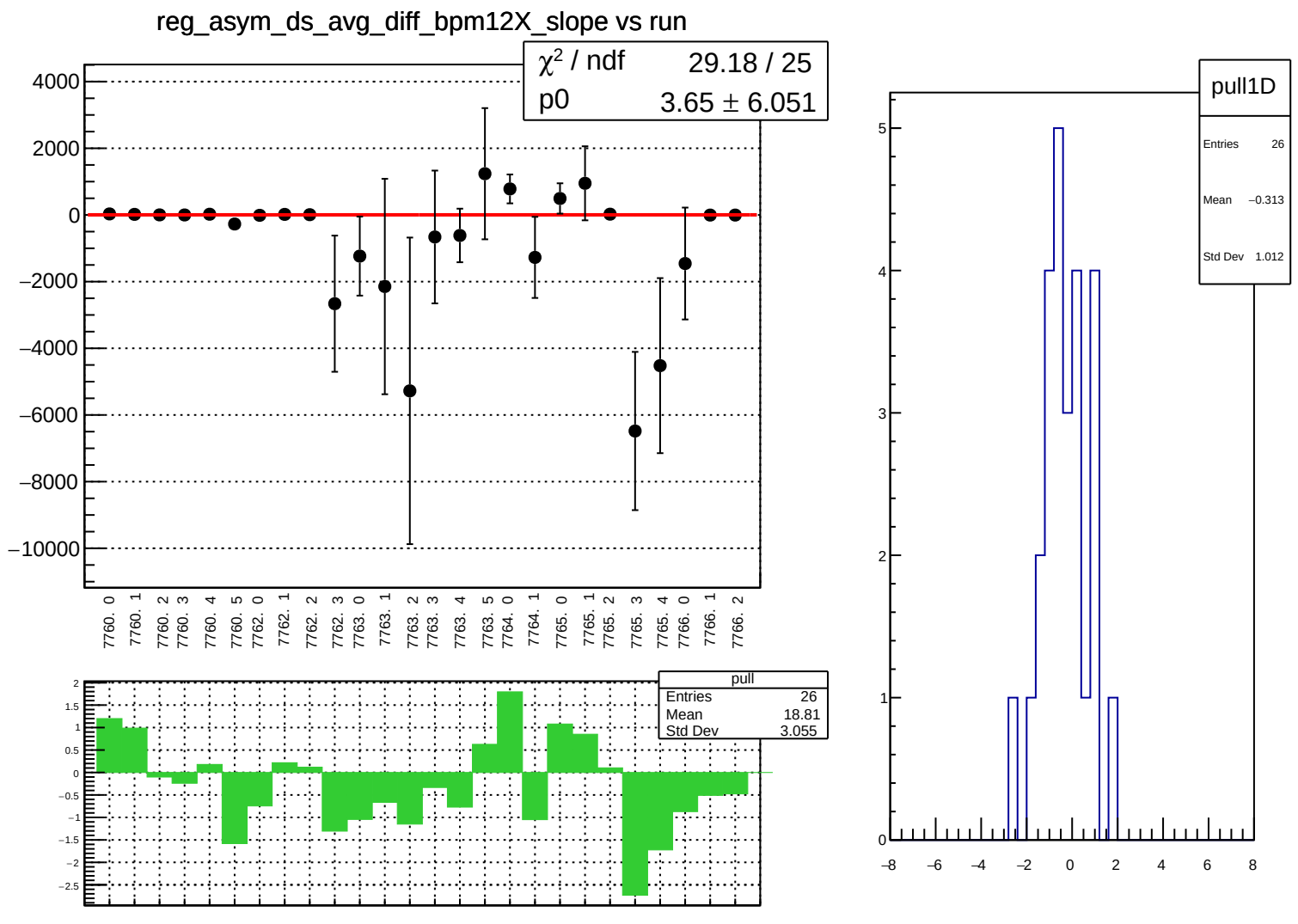

pull1D
Entries 26
Mean 0.2698
Std Dev 0.9771
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

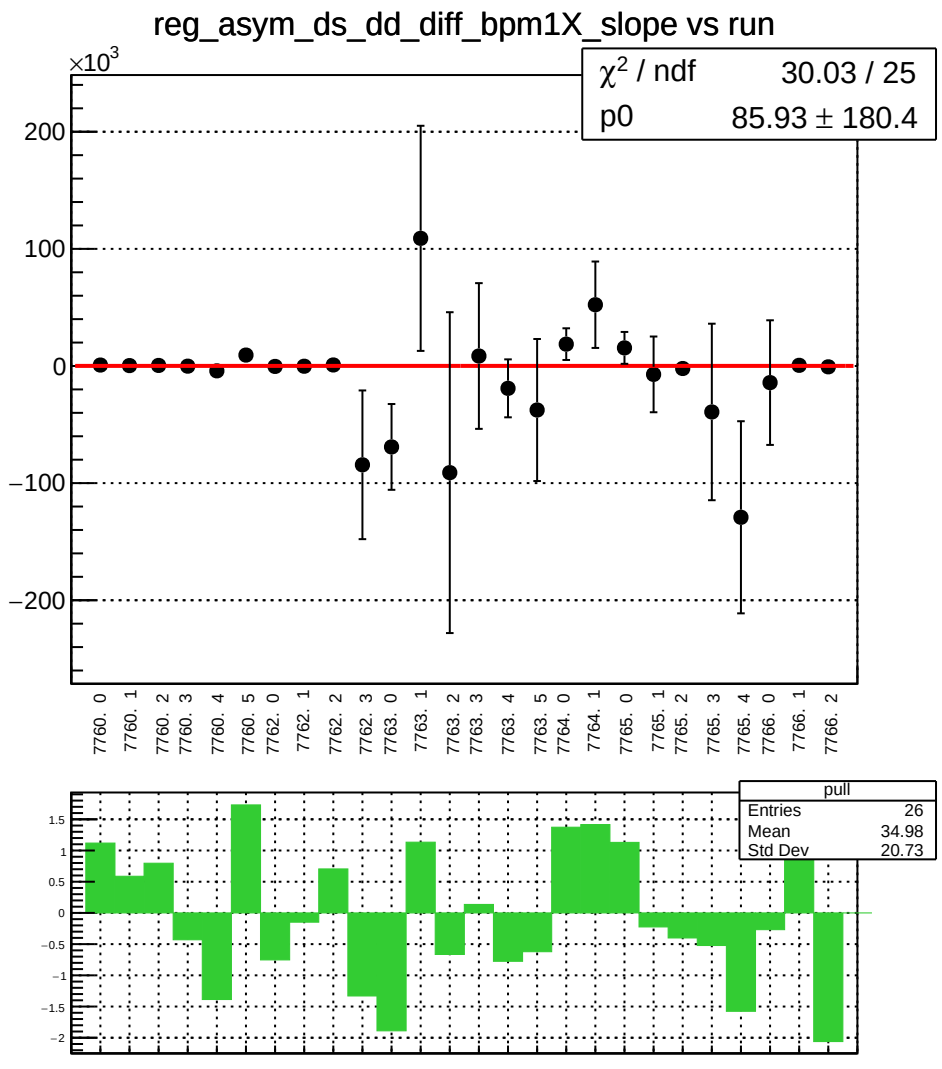

reg_asym_ds_avg_diff_bpm4eX_slope vs run
×10^3
χ^2 / ndf 29.26 / 25
p0 192.8 ± 166.6
250
200
150
100
50
0
−50
−100
−150
−200
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 23.46
Std Dev 8.862
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

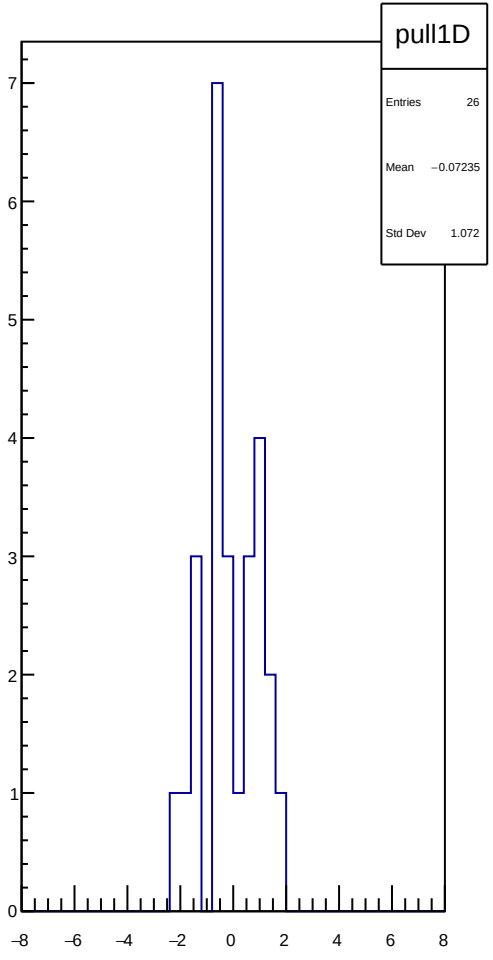

pull1D
Entries 26
Mean 0.137
Std Dev 1.052
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

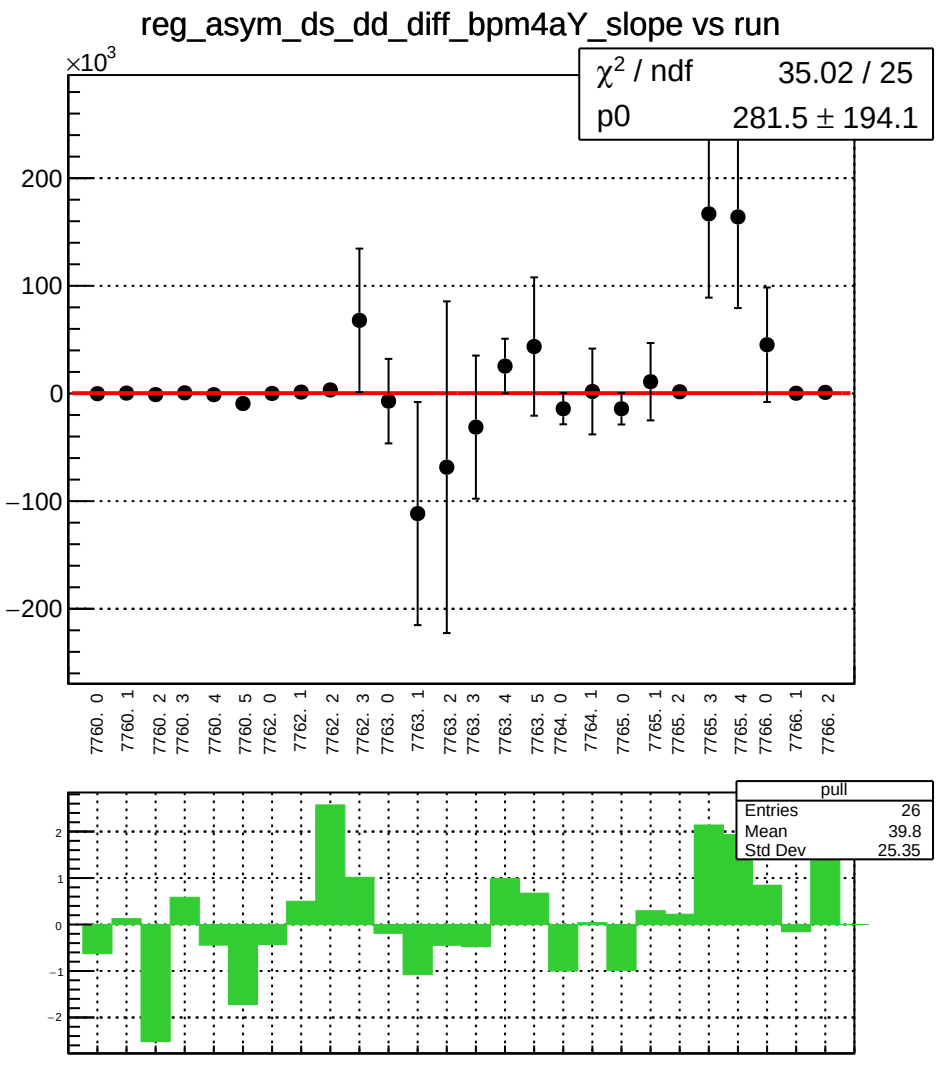

reg_asym_ds_avg_diff_bpm4eY_slope vs run
×10^3
χ² / ndf 28.04 / 25
p0 −253.9 ± 218.4
300
200
100
0
−100
−200
−300
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 20.89
Std Dev 2.923
1.5
1
0.5
0
−0.5
−1
−1.5
−2

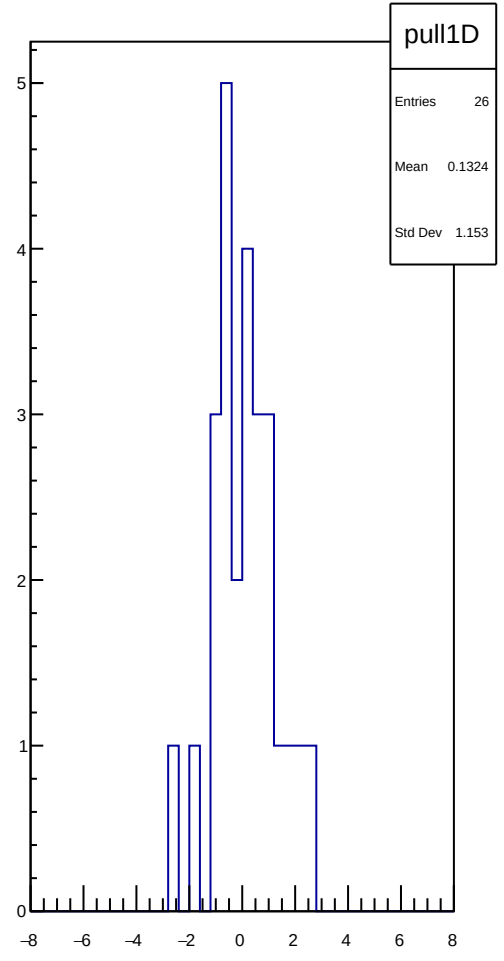

pull1D
Entries 26
Mean −0.2802
Std Dev 1
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

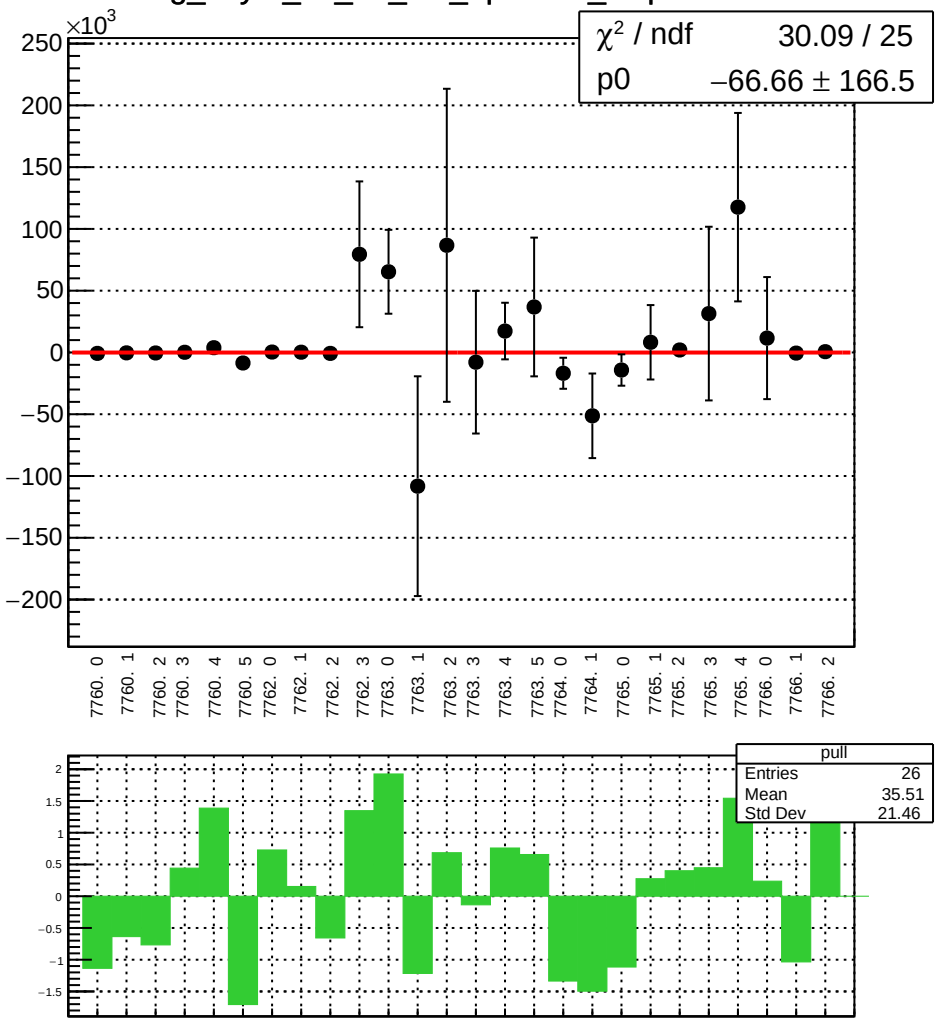

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 29.18 / 25
p0 3.65 ± 6.051
4000
2000
0
−2000
−4000
−6000
−8000
−10000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 18.81
Std Dev 3.055
pull1D
Entries 26
Mean −0.313
Std Dev 1.012

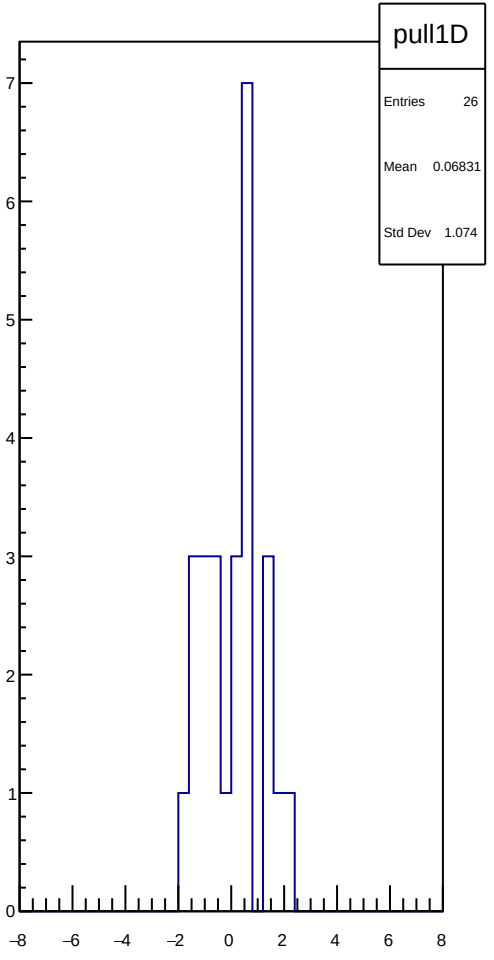

reg_asym_ds_dd_diff_bpm1X_slope vs run
×10^3
χ^2 / ndf 30.03 / 25
p0 85.93 ± 180.4
200
100
0
−100
−200
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 34.98
Std Dev 20.73
1.5
1
0.5
0
−0.5
−1
−1.5
−2

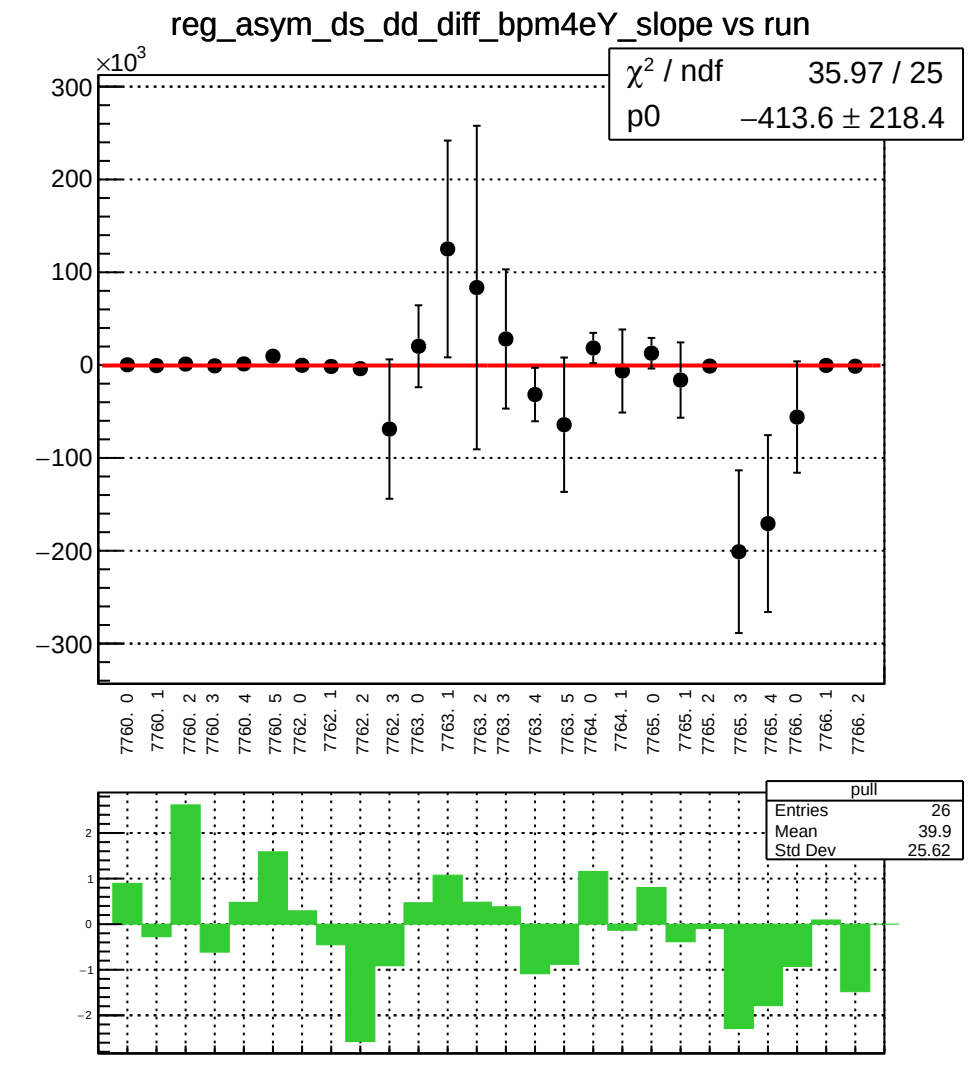

pull1D
Entries 26
Mean −0.07235
Std Dev 1.072
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

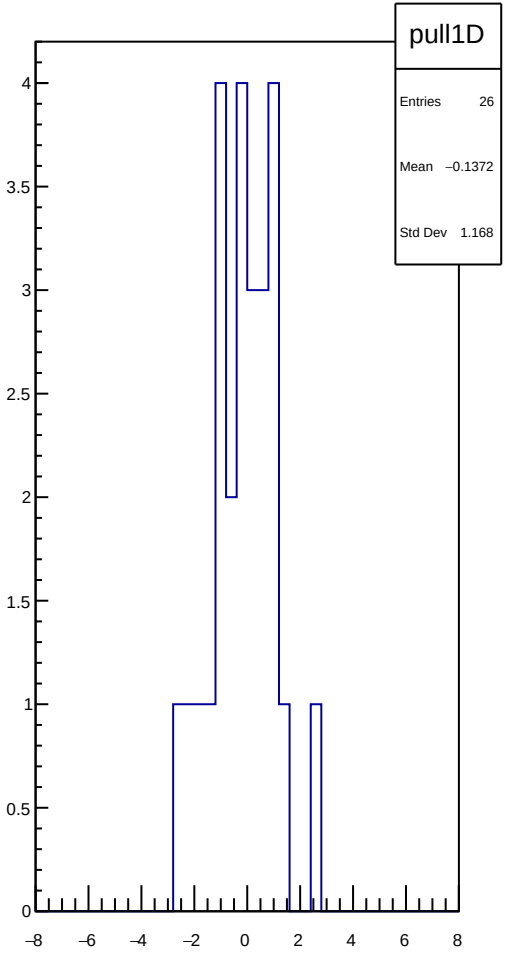

reg_asym_ds_dd_diff_bpm4aY_slope vs run
×10^3
χ^2 / ndf 35.02 / 25
p0 281.5 ± 194.1
200
100
0
−100
−200
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 39.8
Std Dev 25.35
2
1
0
−1
−2

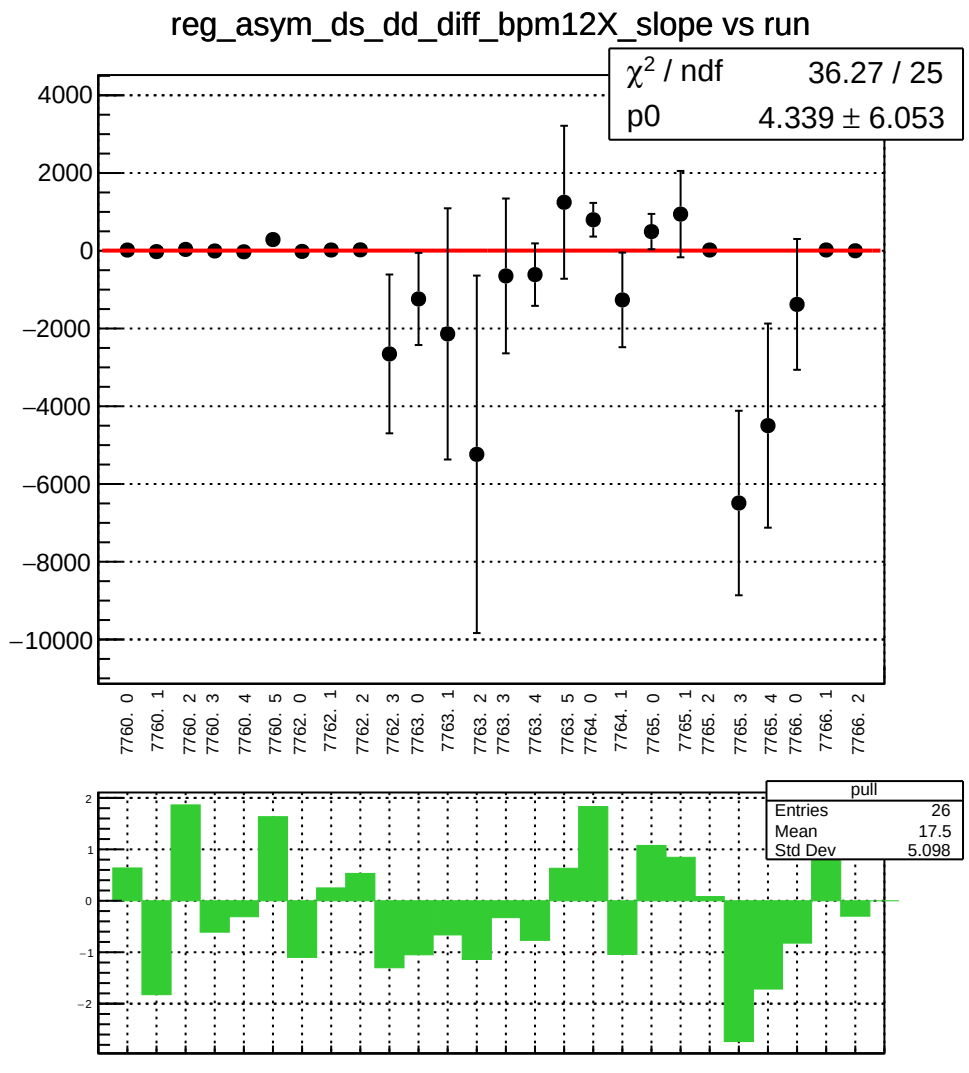

pull1D
Entries 26
Mean 0.1324
Std Dev 1.153
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

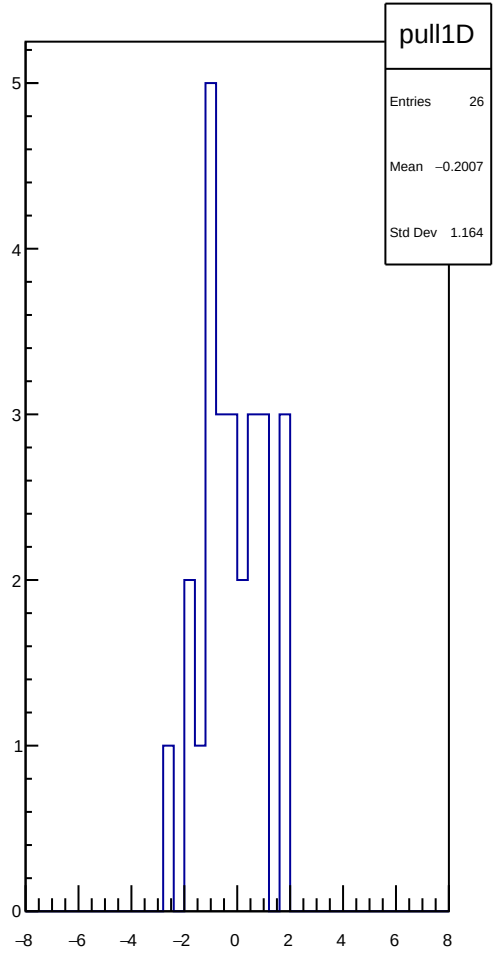

reg_asym_ds_dd_diff_bpm4eX_slope vs run
×10^3
χ² / ndf 30.09 / 25
p0 −66.66 ± 166.5
250
200
150
100
50
0
−50
−100
−150
−200
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 35.51
Std Dev 21.46
2
1.5
1
0.5
0
−0.5
−1
−1.5

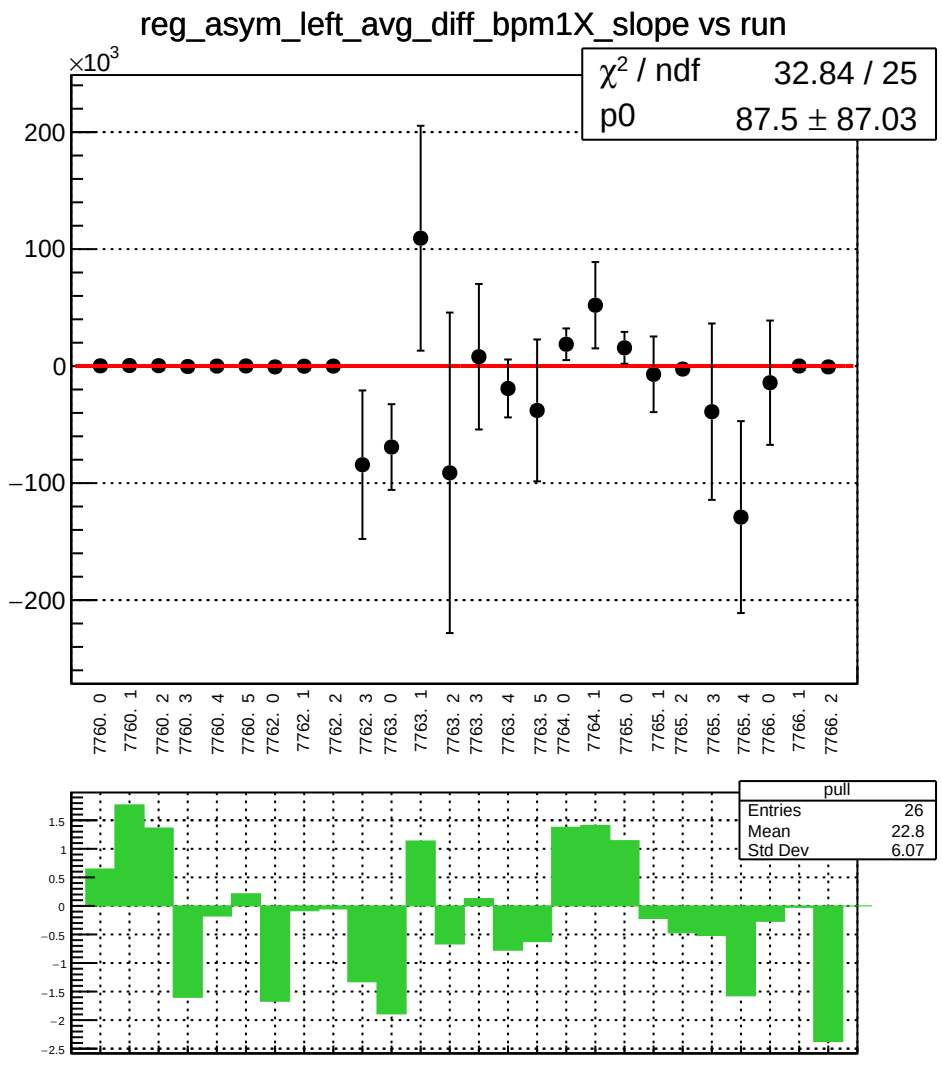

pull1D
Entries 26
Mean 0.06831
Std Dev 1.074
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

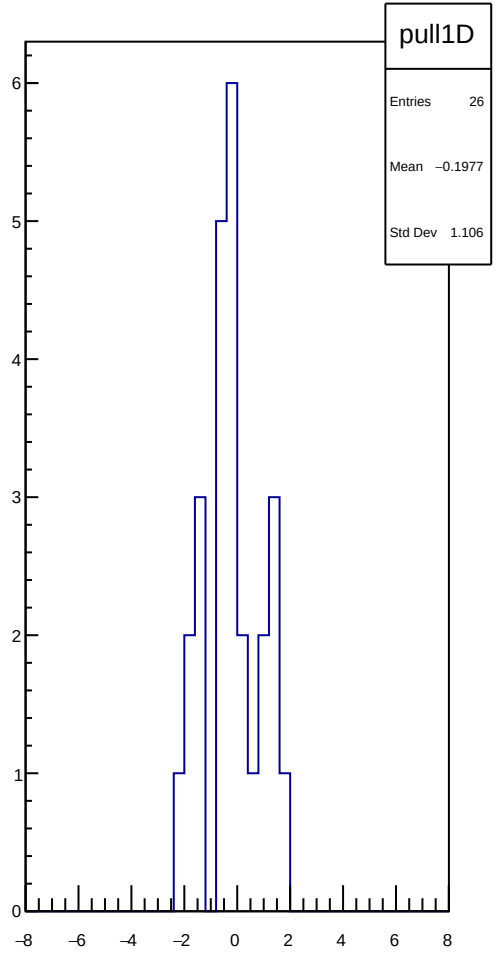

reg_asym_ds_dd_diff_bpm4eY_slope vs run
×10^3
χ² / ndf 35.97 / 25
p0 −413.6 ± 218.4
300
200
100
0
−100
−200
−300
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 39.9
Std Dev 25.62
2
1
0
−1
−2

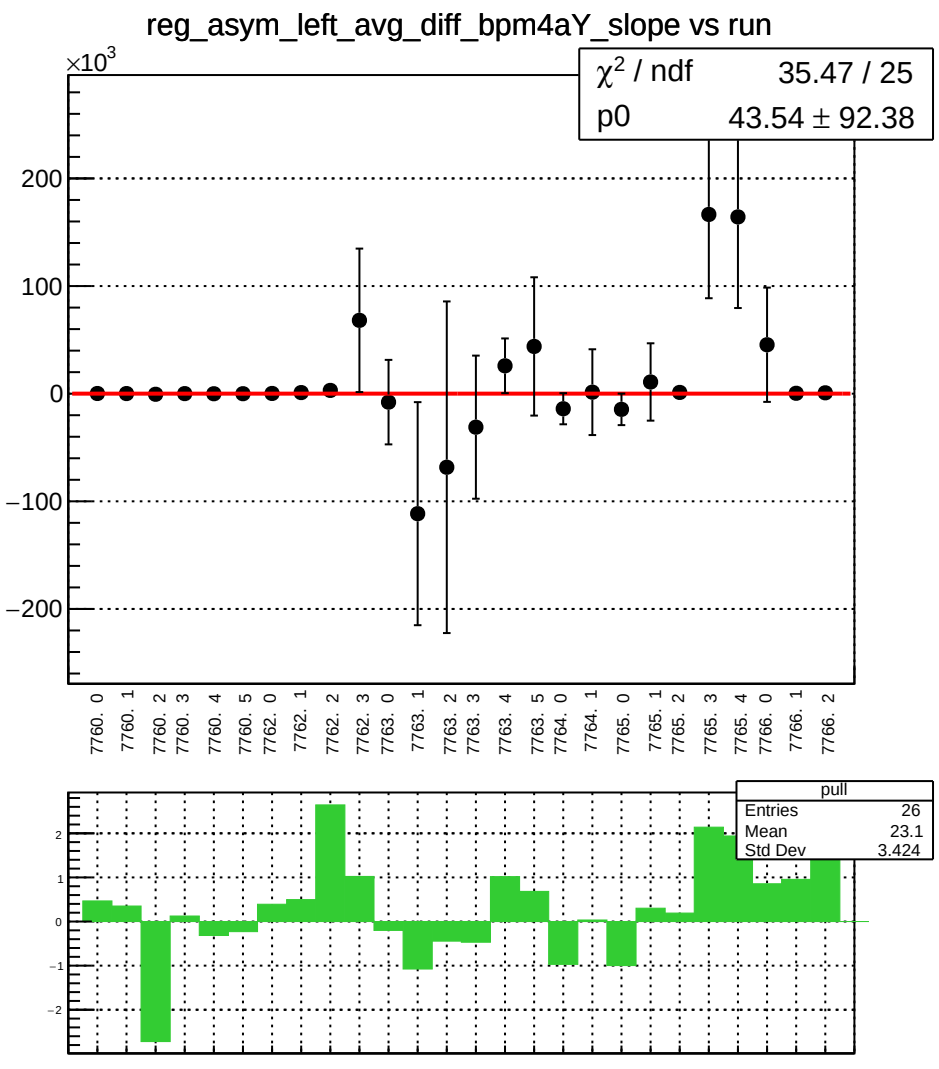

pull1D
Entries 26
Mean −0.1372
Std Dev 1.168
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

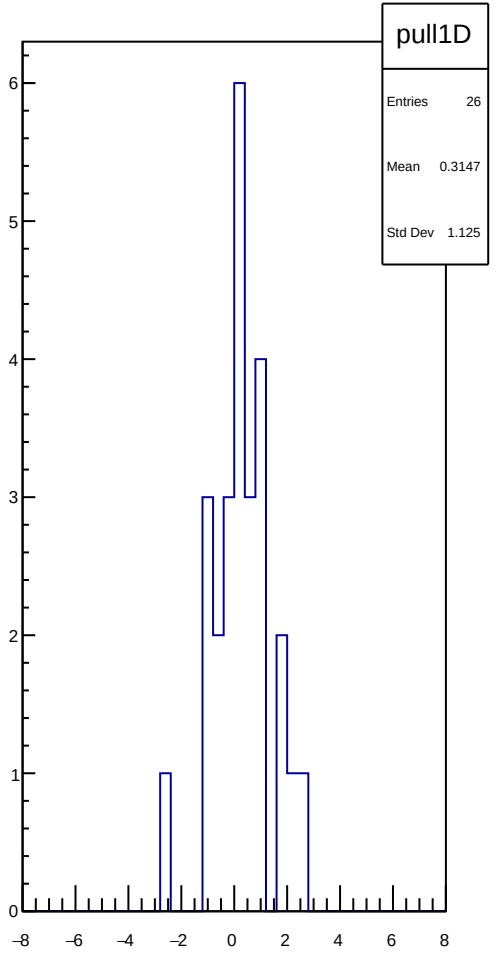

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 36.27 / 25
p0 4.339 ± 6.053
4000
2000
0
−2000
−4000
−6000
−8000
−10000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 17.5
Std Dev 5.098
2
1
0
−1
−2

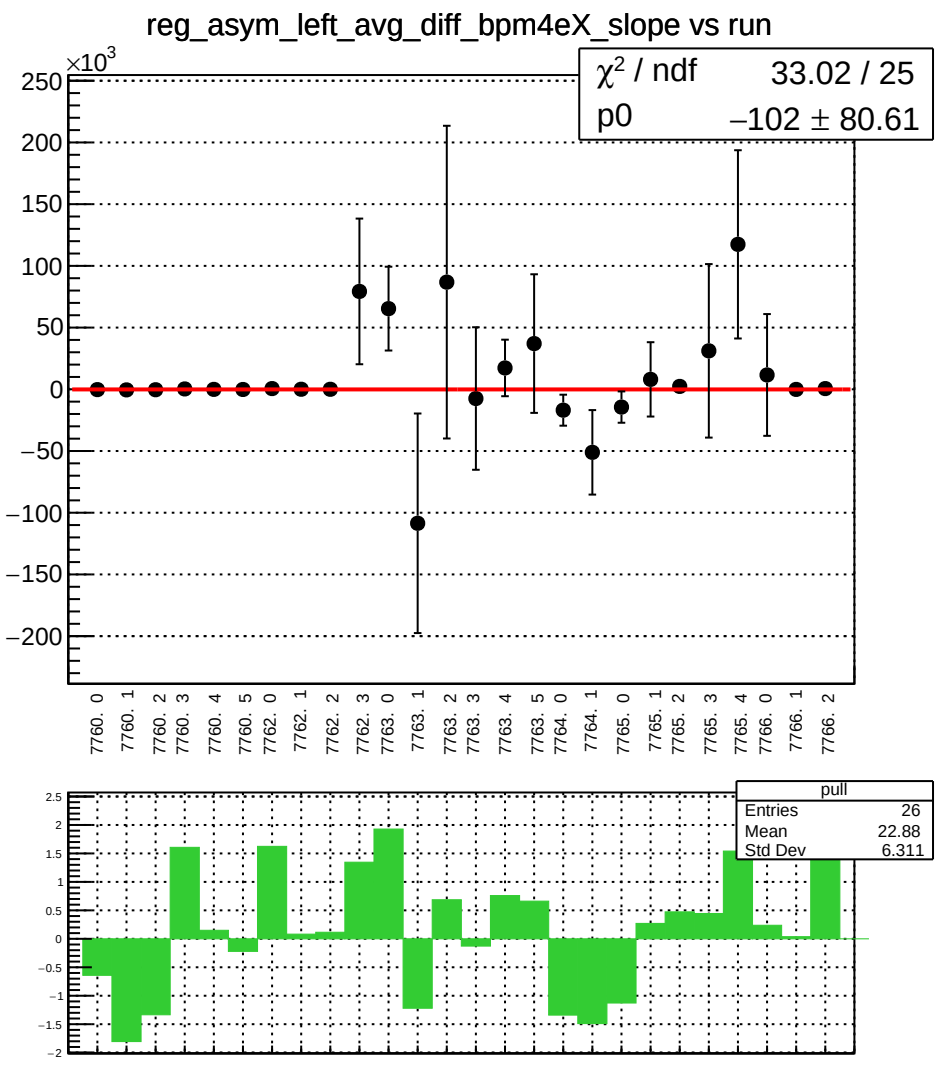

pull1D
Entries 26
Mean −0.2007
Std Dev 1.164
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

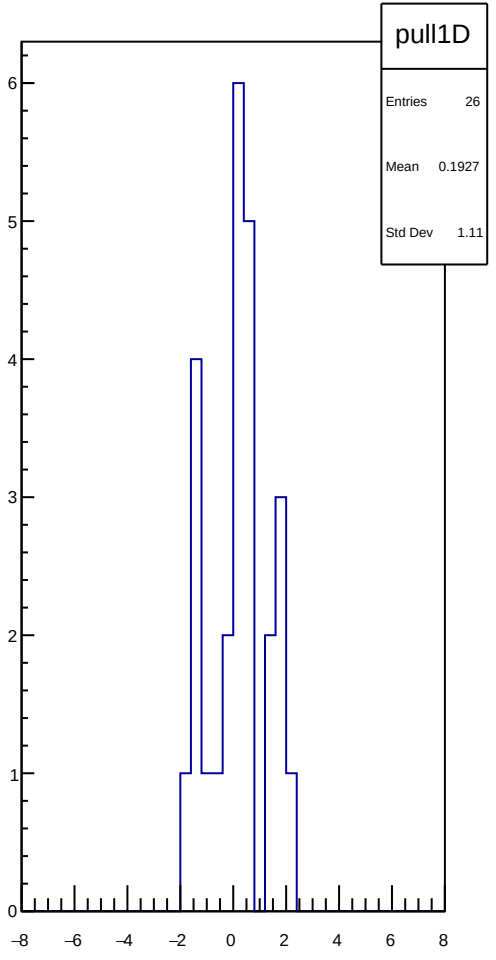

reg_asym_left_avg_diff_bpm1X_slope vs run
×10^3
χ² / ndf 32.84 / 25
p0 87.5 ± 87.03
200
100
0
−100
−200
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 22.8
Std Dev 6.07
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

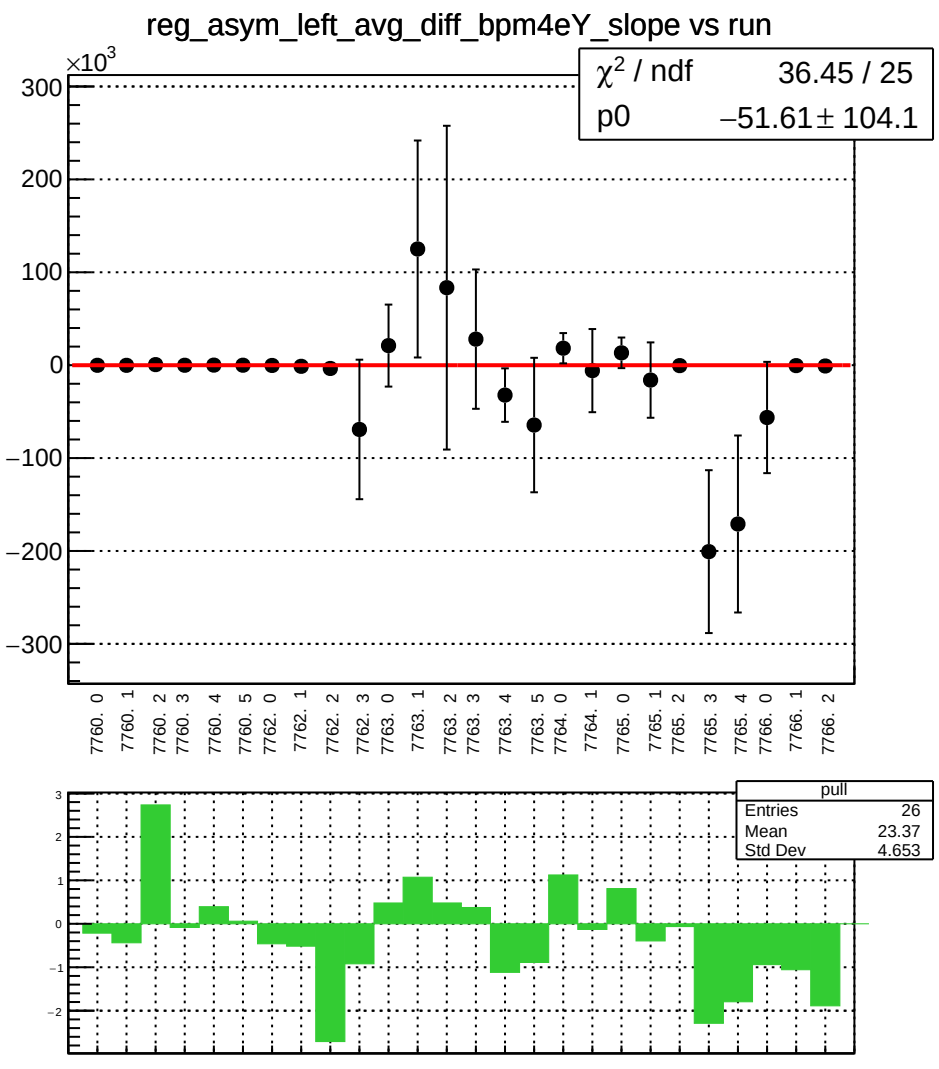

pull1D
Entries 26
Mean −0.1977
Std Dev 1.106
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

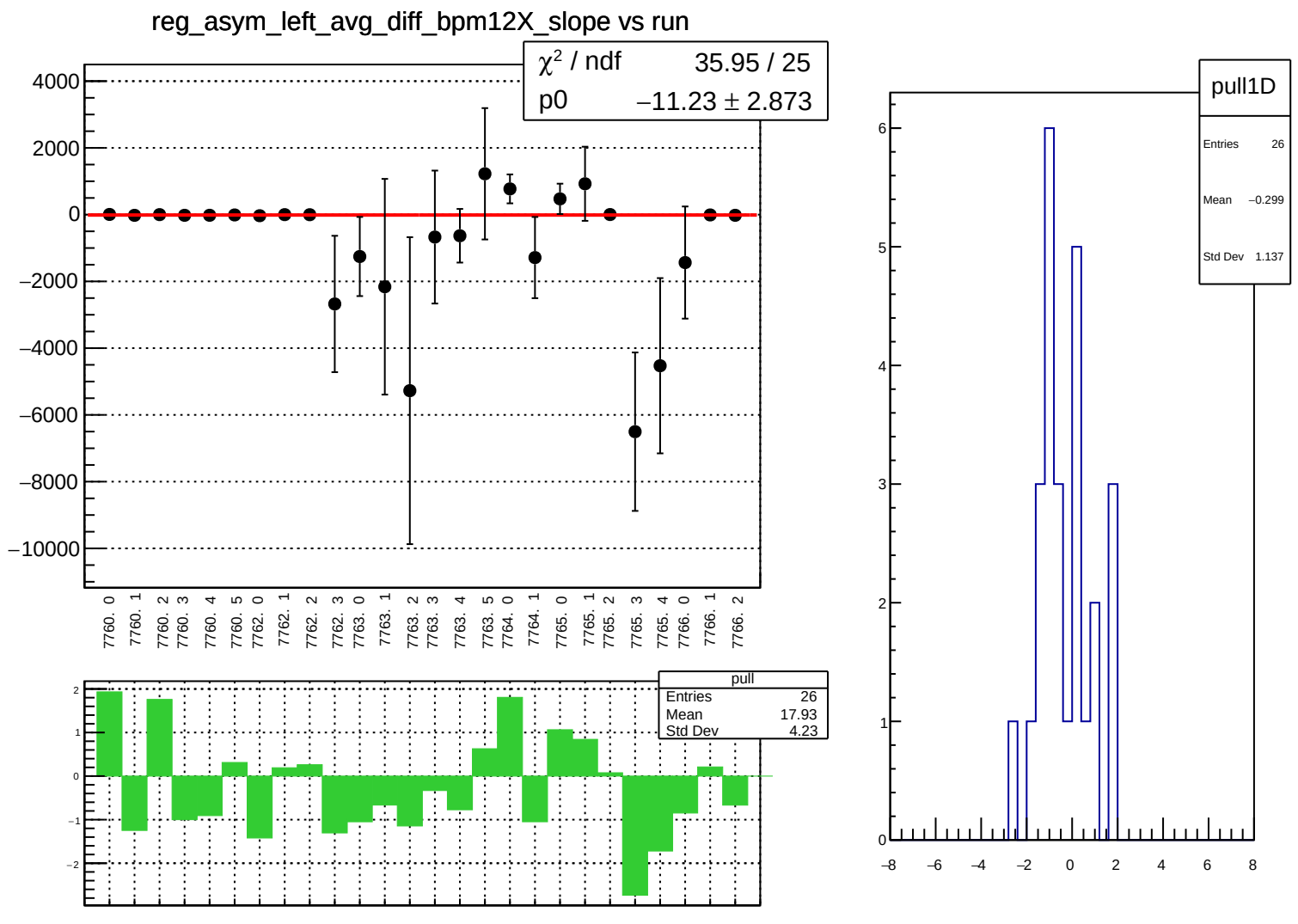

reg_asym_left_avg_diff_bpm4aY_slope vs run
×10^3
χ² / ndf 35.47 / 25
p0 43.54 ± 92.38
200
100
0
−100
−200
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 23.1
Std Dev 3.424
2
1
0
−1
−2

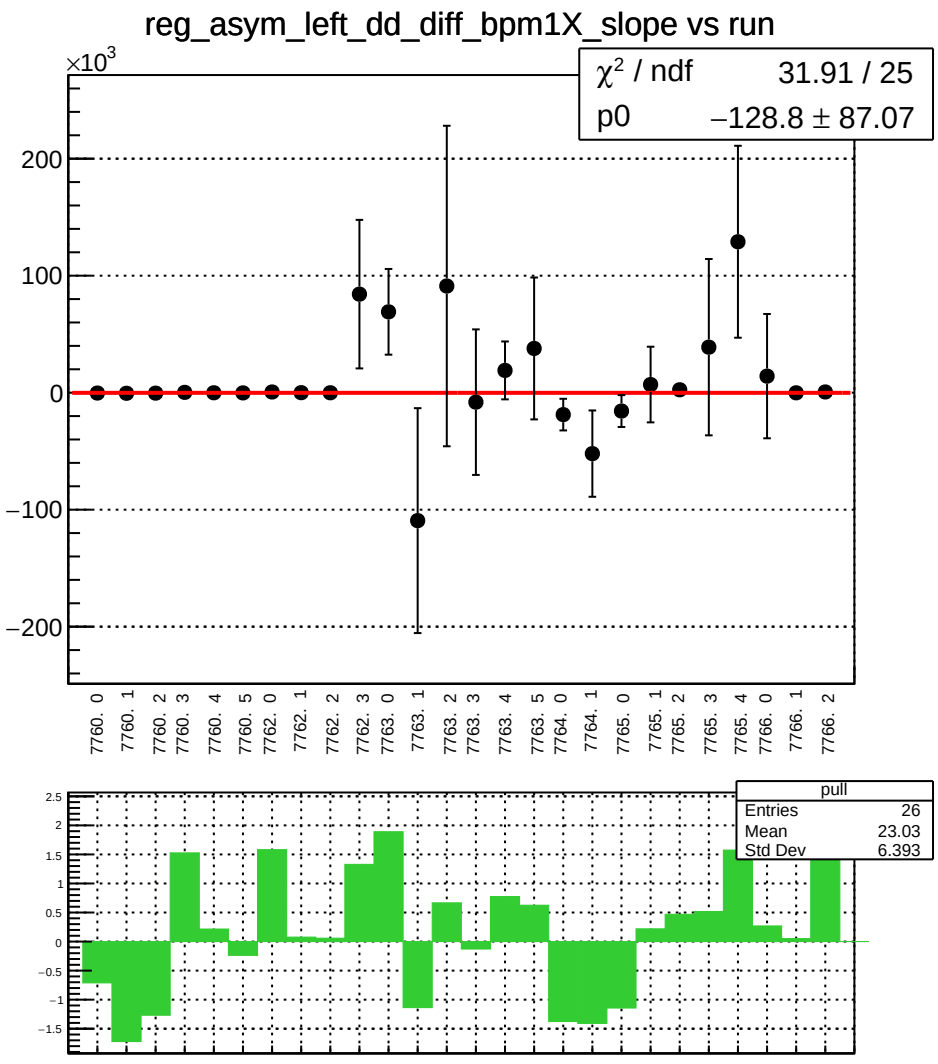

pull1D
Entries 26
Mean 0.3147
Std Dev 1.125
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

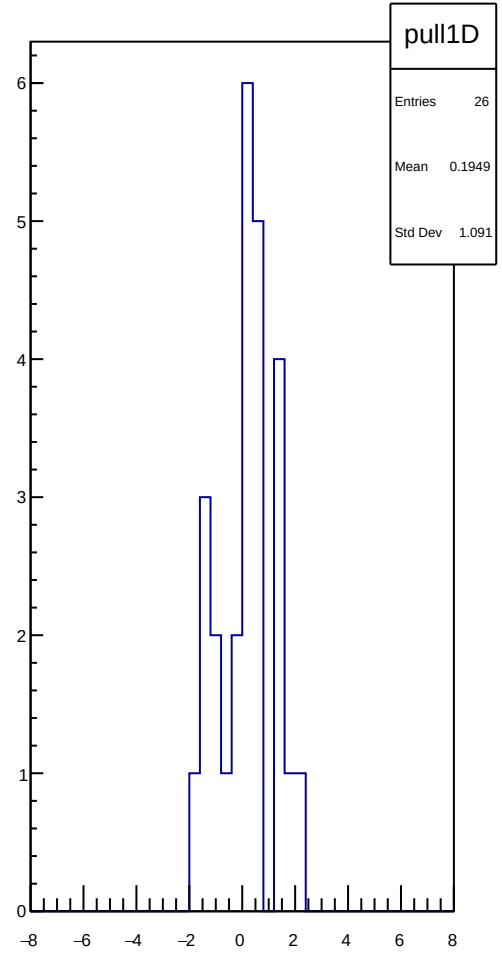

reg_asym_left_avg_diff_bpm4eX_slope vs run
×10^3
χ² / ndf 33.02 / 25
p0 −102 ± 80.61
250
200
150
100
50
0
−50
−100
−150
−200
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 22.88
Std Dev 6.311
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

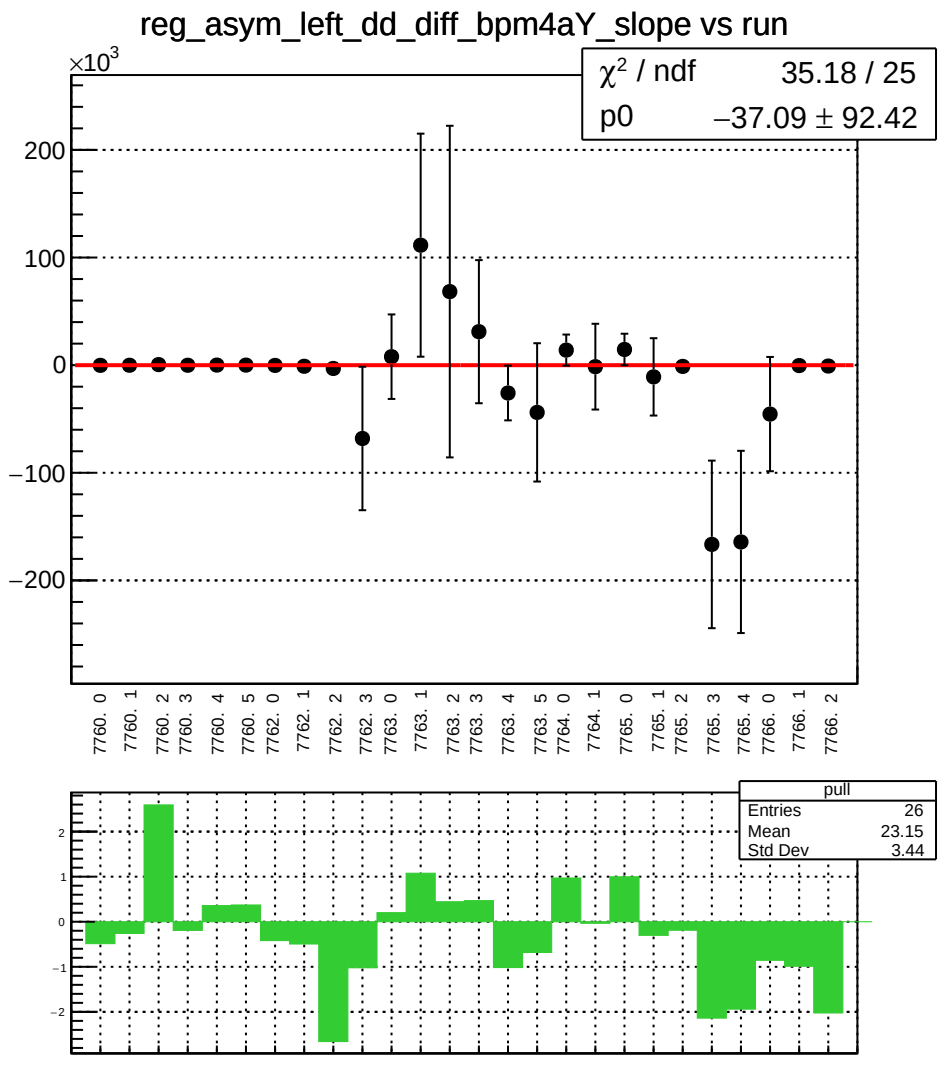

pull1D
Entries 26
Mean 0.1927
Std Dev 1.11
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

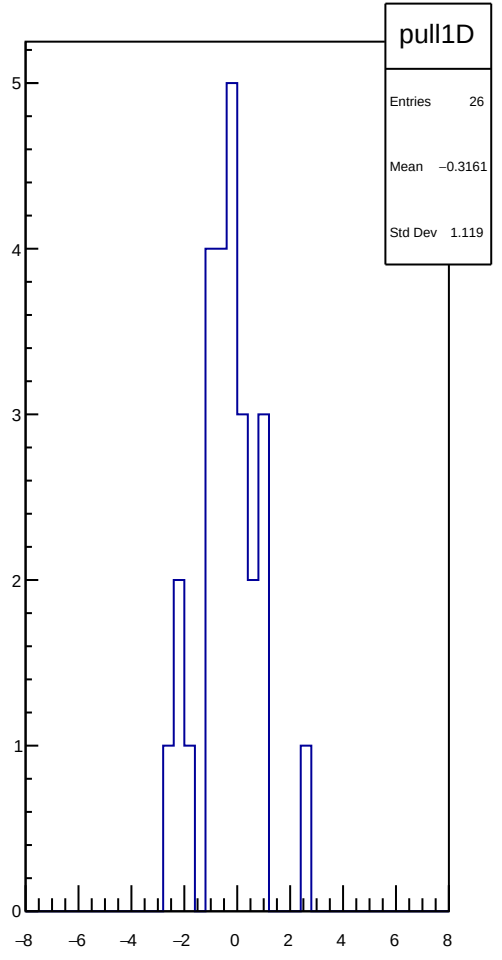

reg_asym_left_avg_diff_bpm4eY_slope vs run
×10^3
χ^2 / ndf 36.45 / 25
p0 −51.61 ± 104.1
300
200
100
0
−100
−200
−300
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 23.37
Std Dev 4.653
3
2
1
0
−1
−2
pull1D
Entries 26
Mean −0.3222
Std Dev 1.139
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

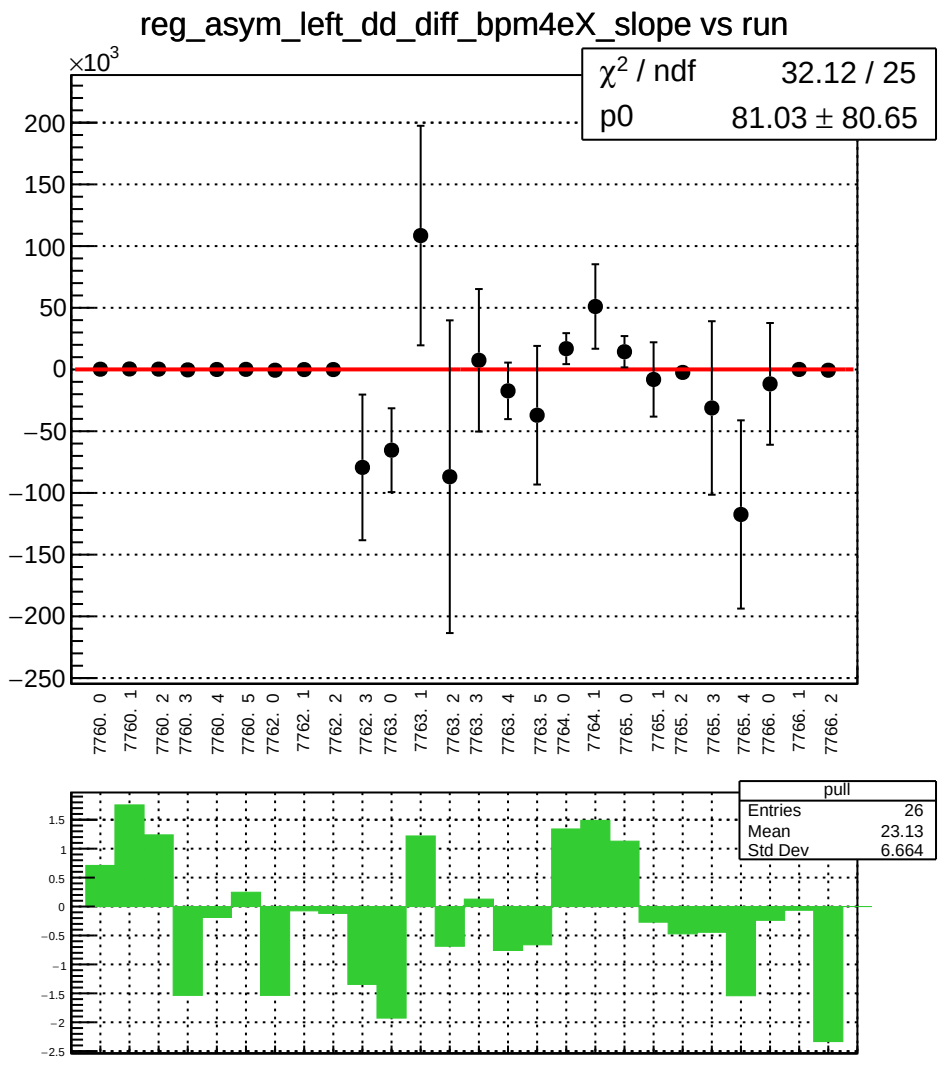

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 35.95 / 25
p0 −11.23 ± 2.873
4000
2000
0
−2000
−4000
−6000
−8000
−10000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 17.93
Std Dev 4.23
pull1D
Entries 26
Mean −0.299
Std Dev 1.137

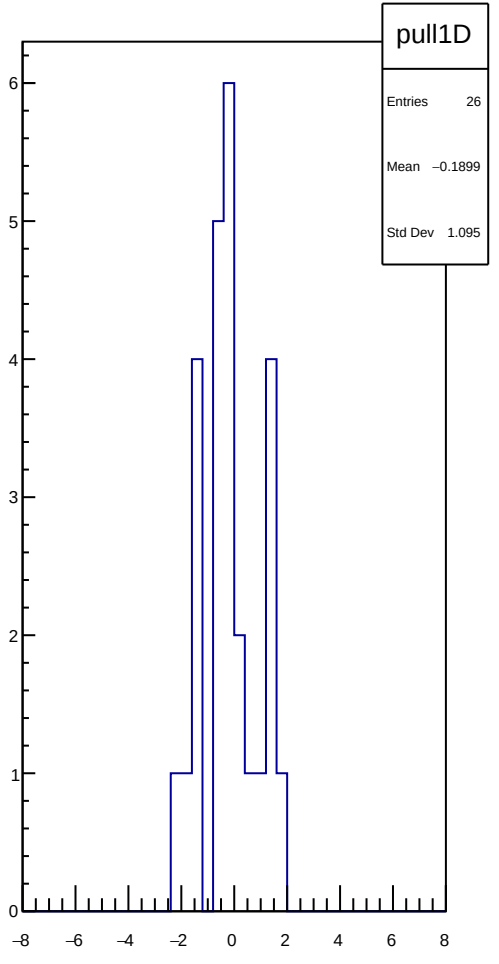

reg_asym_left_dd_diff_bpm1X_slope vs run
×10^3
χ² / ndf 31.91 / 25
p0 −128.8 ± 87.07
200
100
0
−100
−200
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 23.03
Std Dev 6.393
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

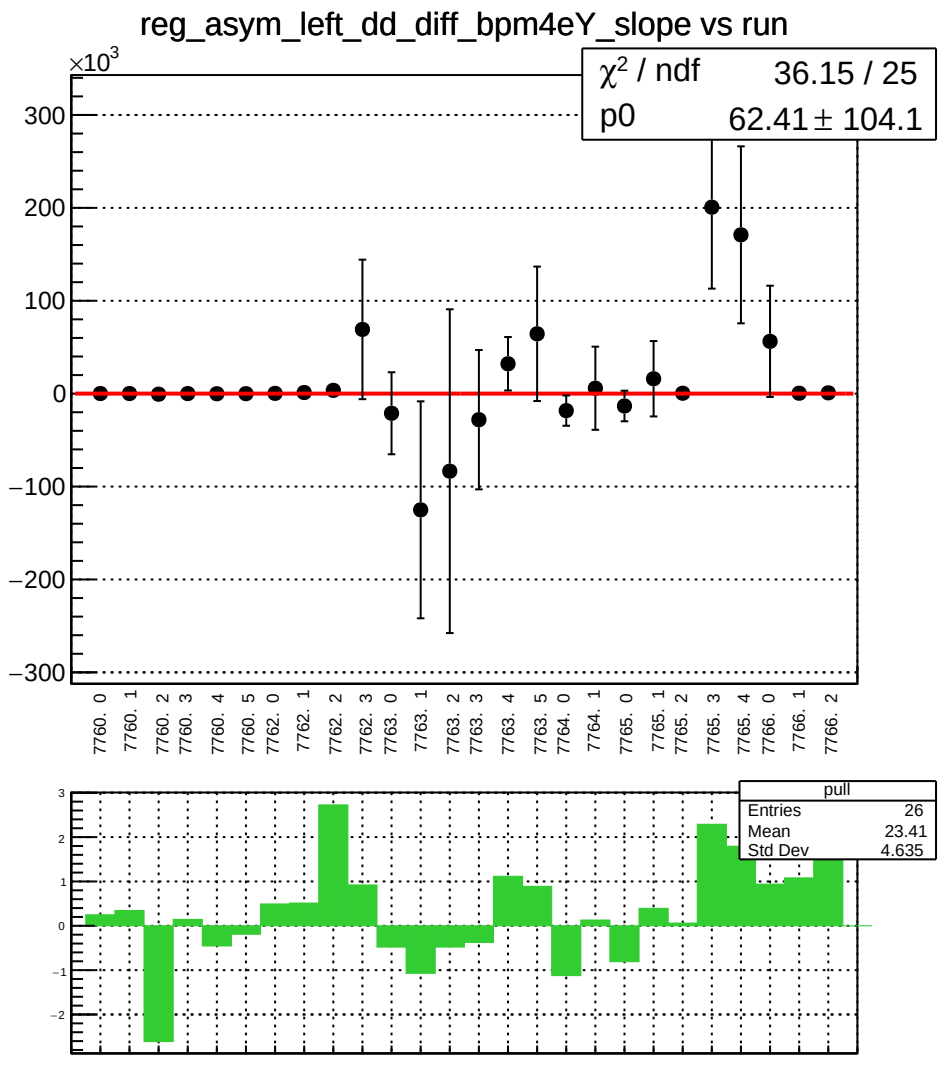

pull1D
Entries 26
Mean 0.1949
Std Dev 1.091
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

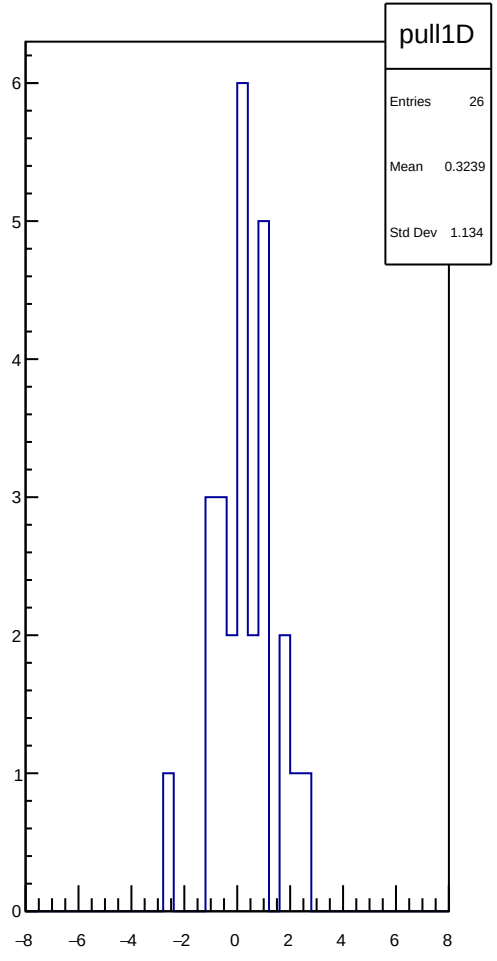

reg_asym_left_dd_diff_bpm4aY_slope vs run
×10^3
χ² / ndf 35.18 / 25
p0 −37.09 ± 92.42
200
100
0
−100
−200
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 23.15
Std Dev 3.44
2
1
0
−1
−2

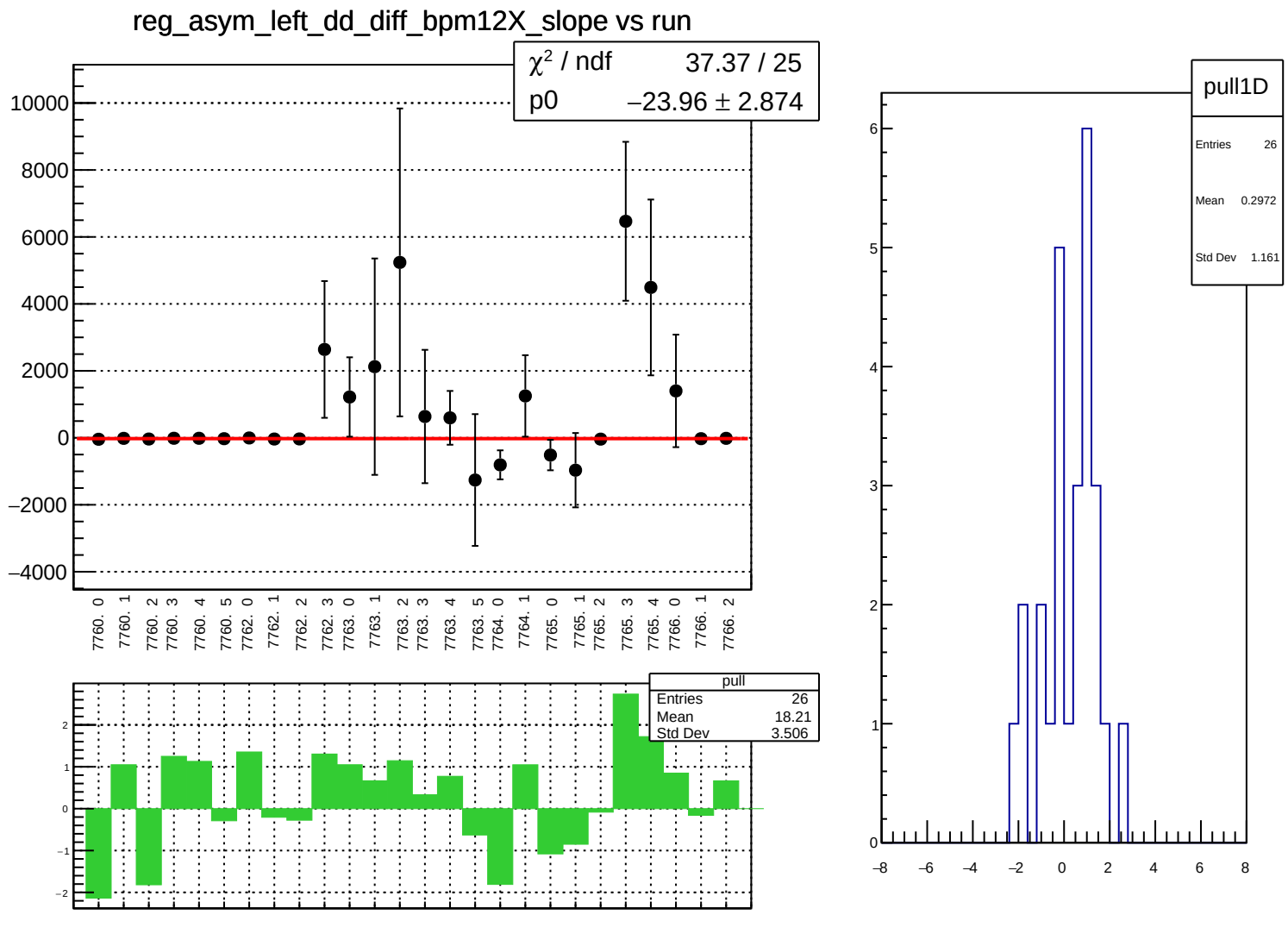

pull1D
Entries 26
Mean −0.3161
Std Dev 1.119
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

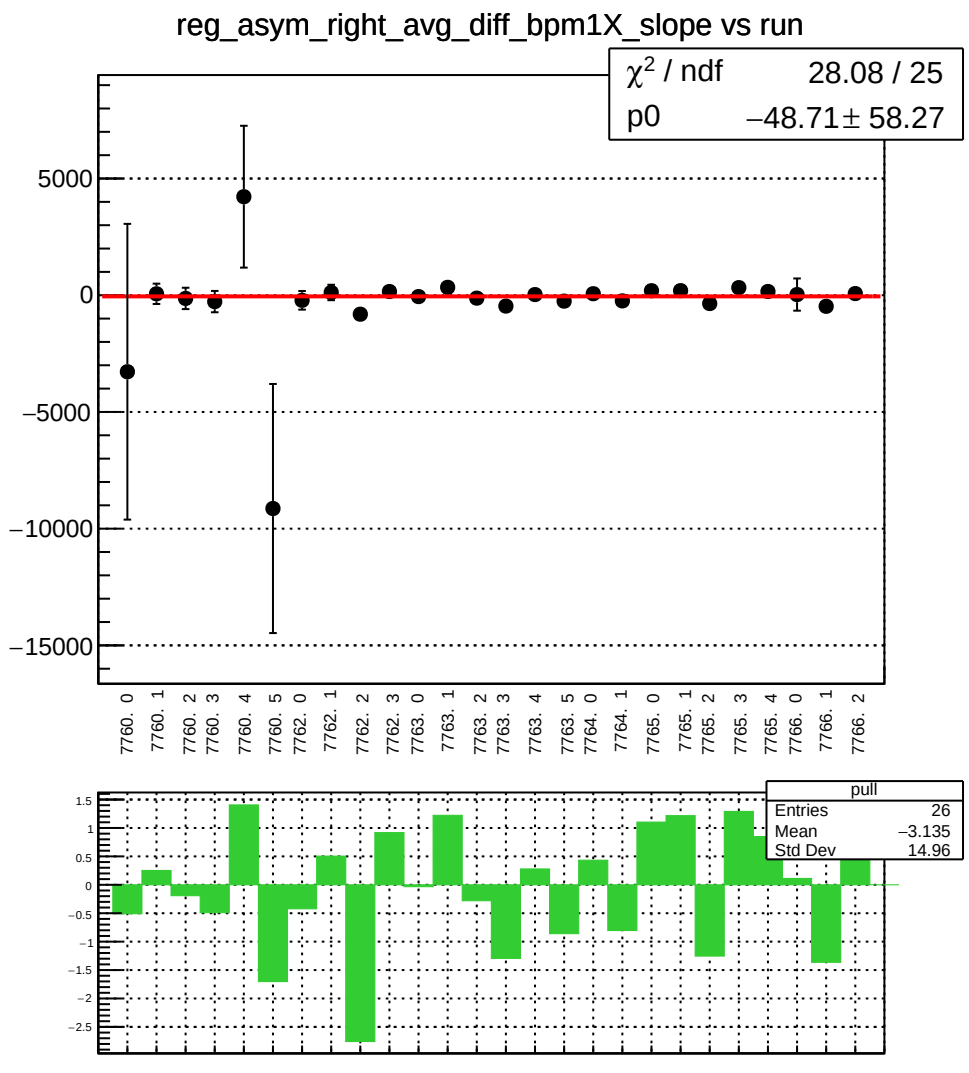

reg_asym_left_dd_diff_bpm4eX_slope vs run
×10^3
χ^2 / ndf 32.12 / 25
p0 81.03 ± 80.65
200
150
100
50
0
−50
−100
−150
−200
−250
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 23.13
Std Dev 6.664
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

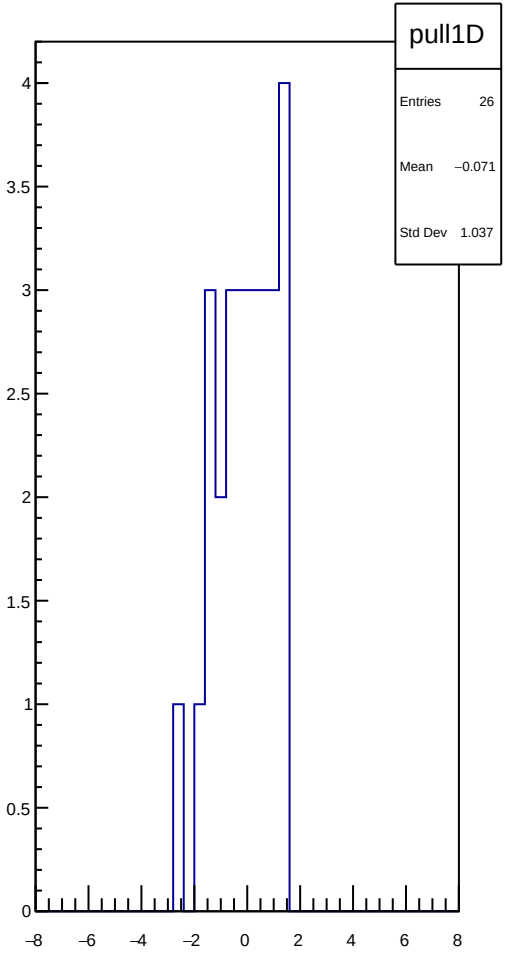

pull1D
Entries 26
Mean −0.1899
Std Dev 1.095
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

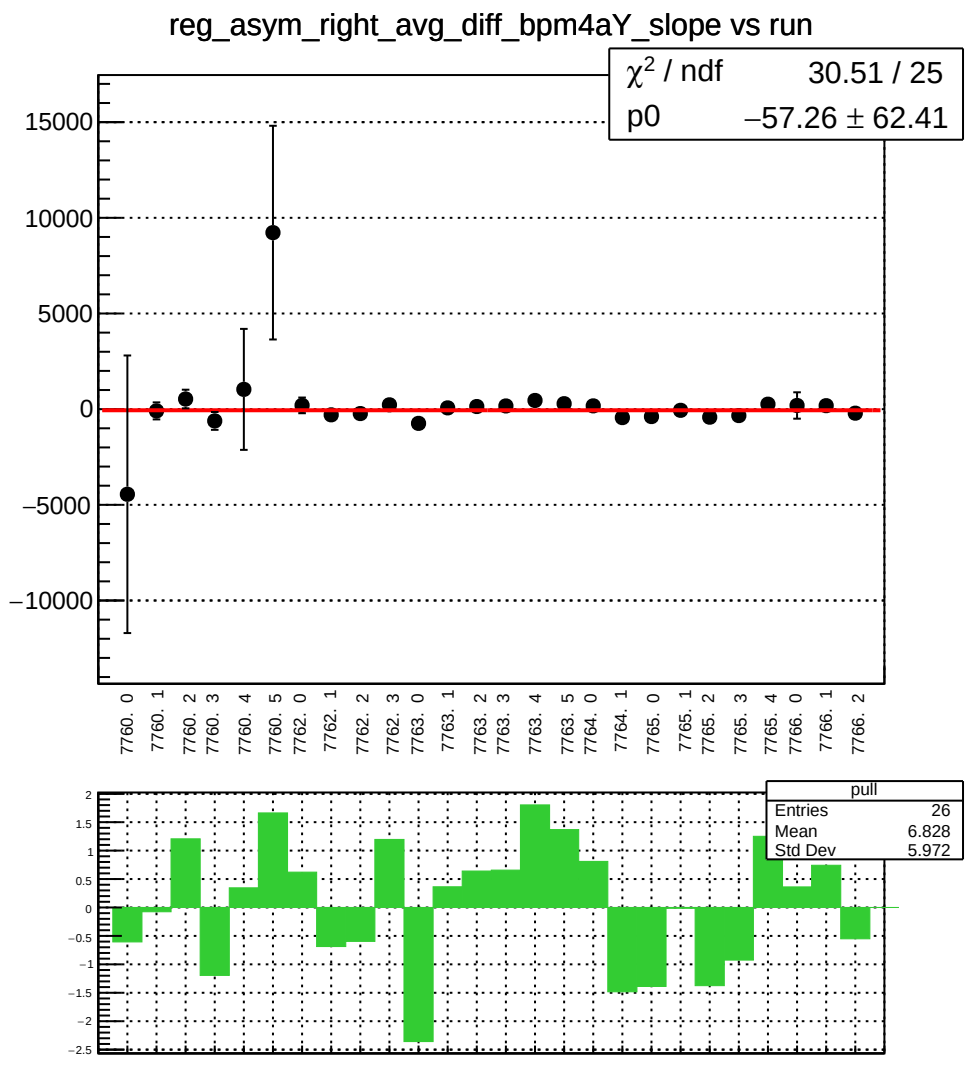

reg_asym_left_dd_diff_bpm4eY_slope vs run
×10^3
χ^2 / ndf 36.15 / 25
p0 62.41 ± 104.1
300
200
100
0
−100
−200
−300
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 23.41
Std Dev 4.635
3
2
1
0
−1
−2

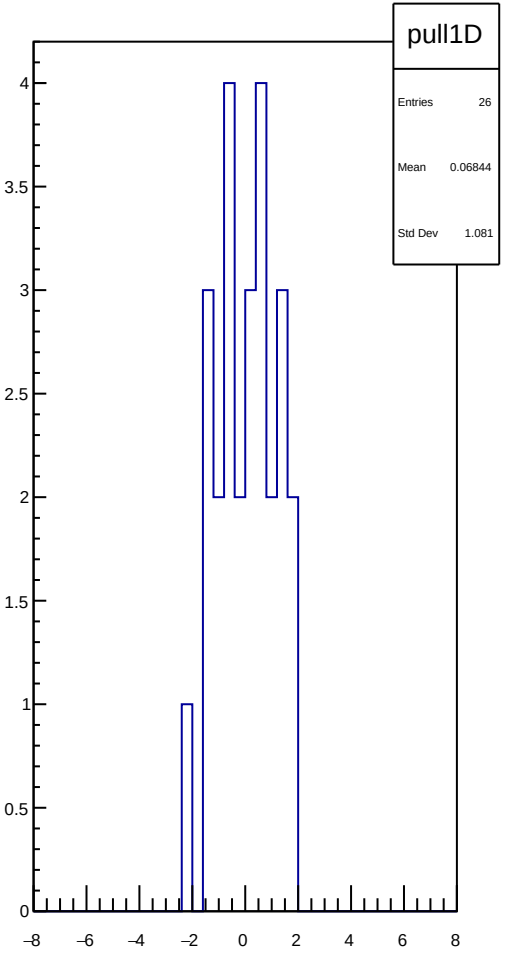

pull1D
Entries 26
Mean 0.3239
Std Dev 1.134
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

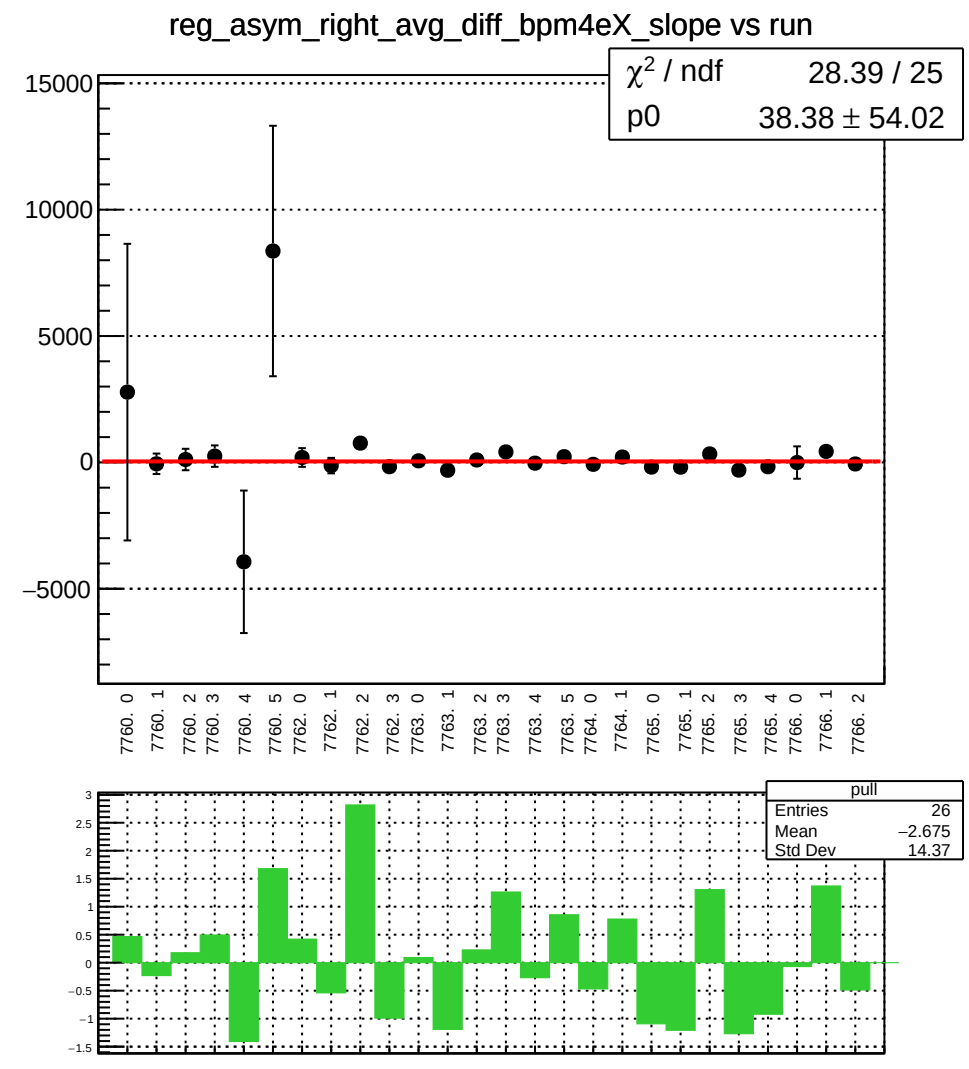

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 37.37 / 25
p0 −23.96 ± 2.874
10000
8000
6000
4000
2000
0
−2000
−4000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 18.21
Std Dev 3.506
2
1
0
−1
−2
pull1D
Entries 26
Mean 0.2972
Std Dev 1.161
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

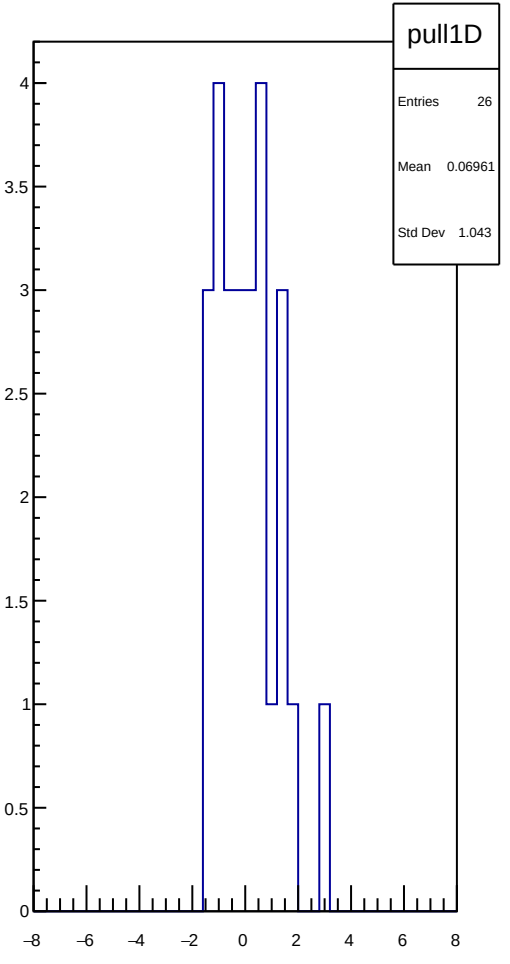

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 28.08 / 25
p0 −48.71 ± 58.27
5000
0
−5000
−10000
−15000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −3.135
Std Dev 14.96
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

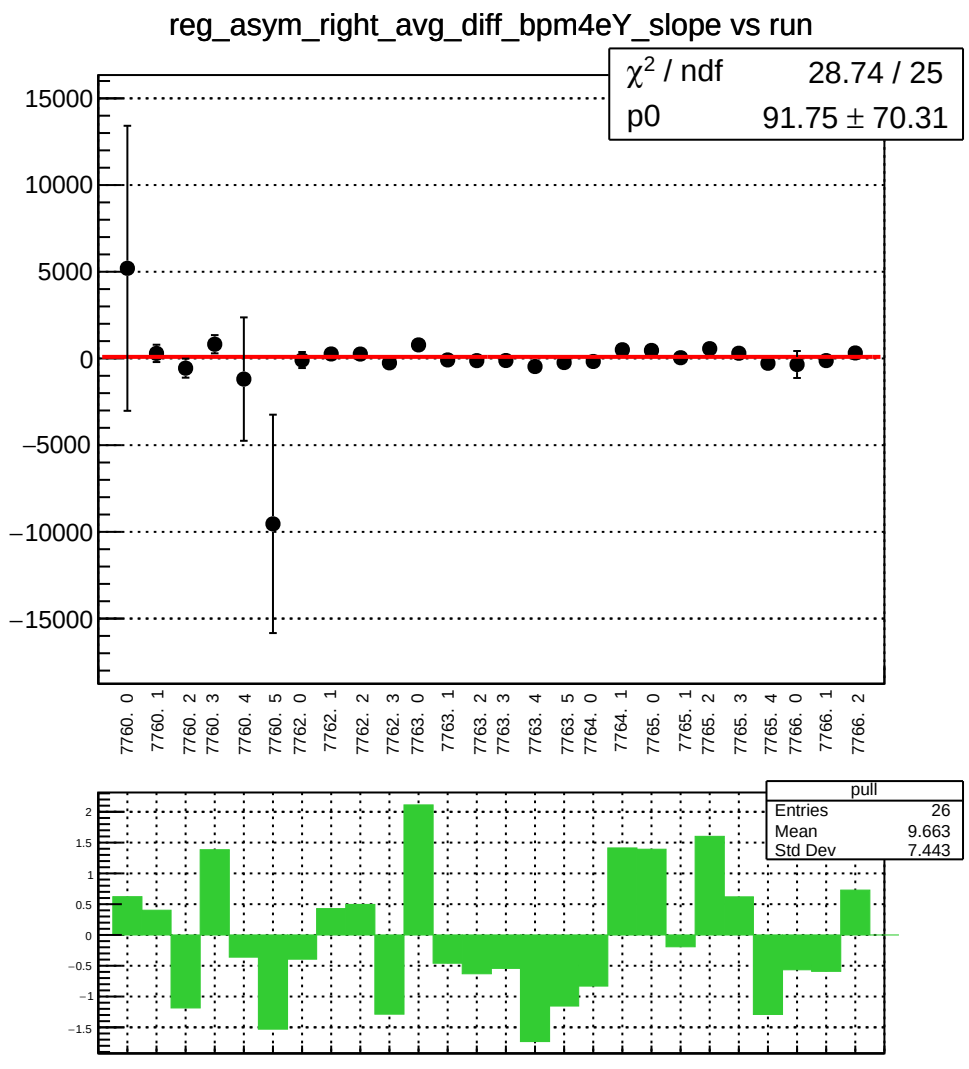

pull1D
Entries 26
Mean −0.071
Std Dev 1.037
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

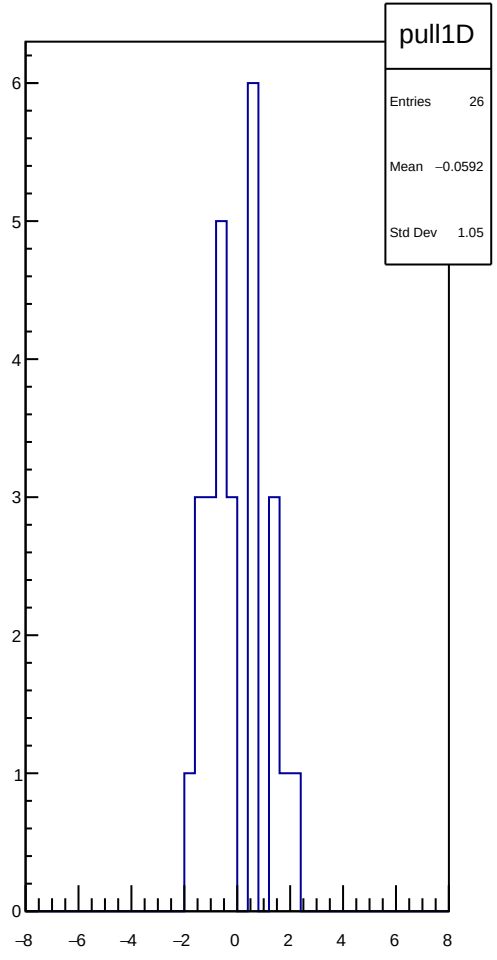

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 30.51 / 25
p0 −57.26 ± 62.41
15000
10000
5000
0
−5000
−10000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 6.828
Std Dev 5.972
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

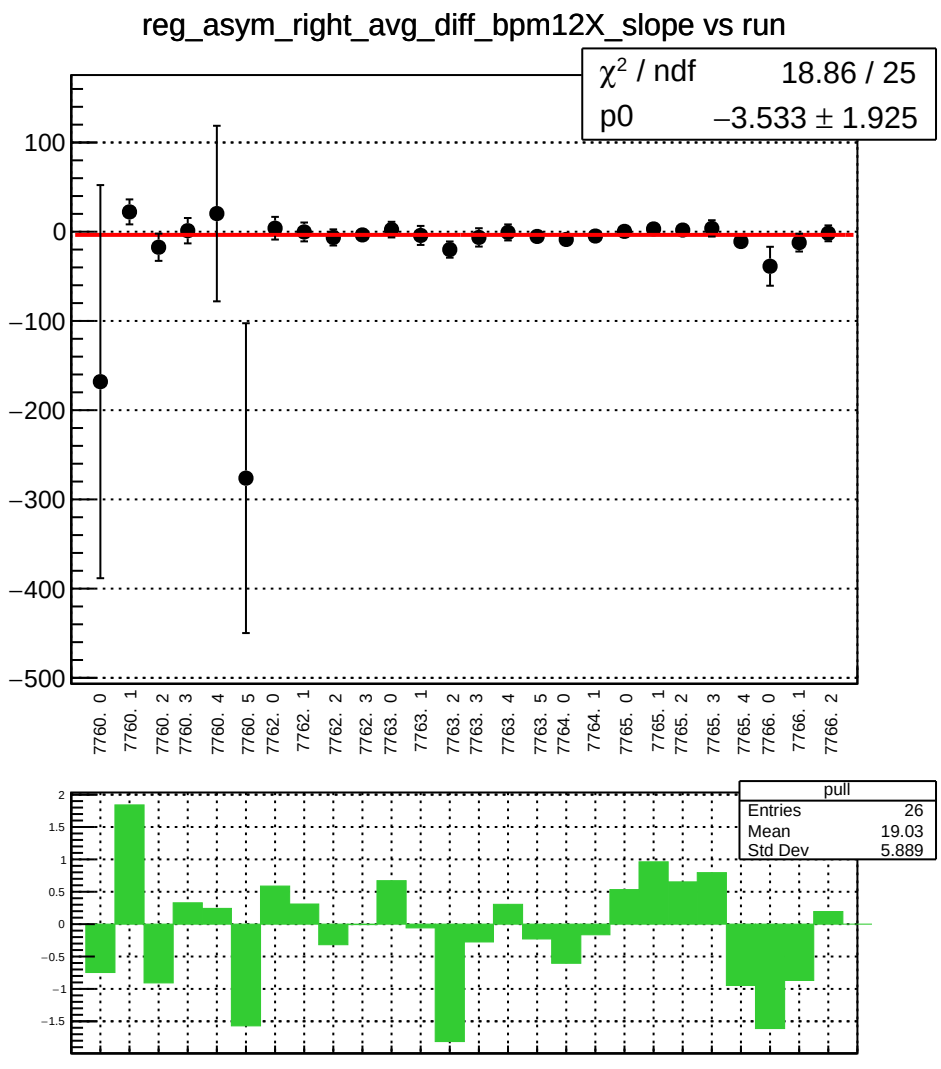

pull1D
Entries 26
Mean 0.06844
Std Dev 1.081
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

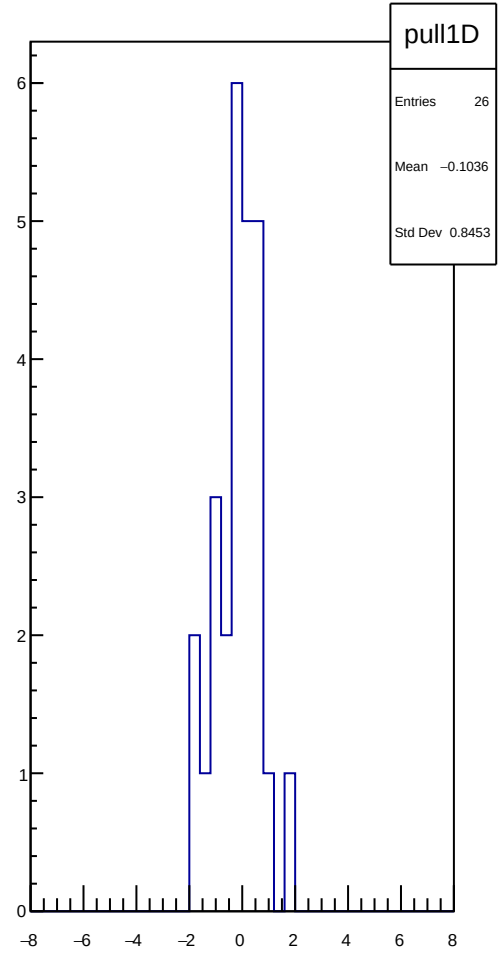

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 28.39 / 25
p0 38.38 ± 54.02
15000
10000
5000
0
−5000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −2.675
Std Dev 14.37
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

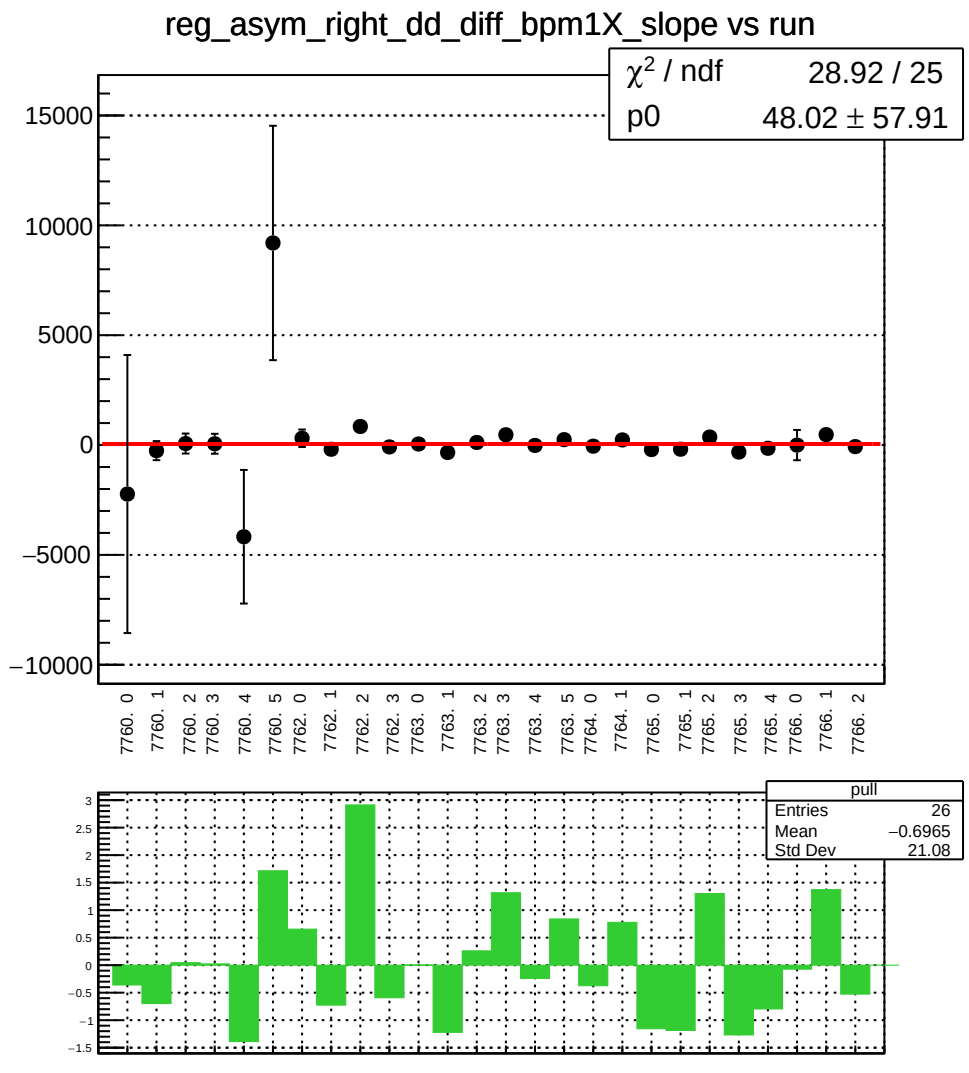

pull1D
Entries 26
Mean 0.06961
Std Dev 1.043
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

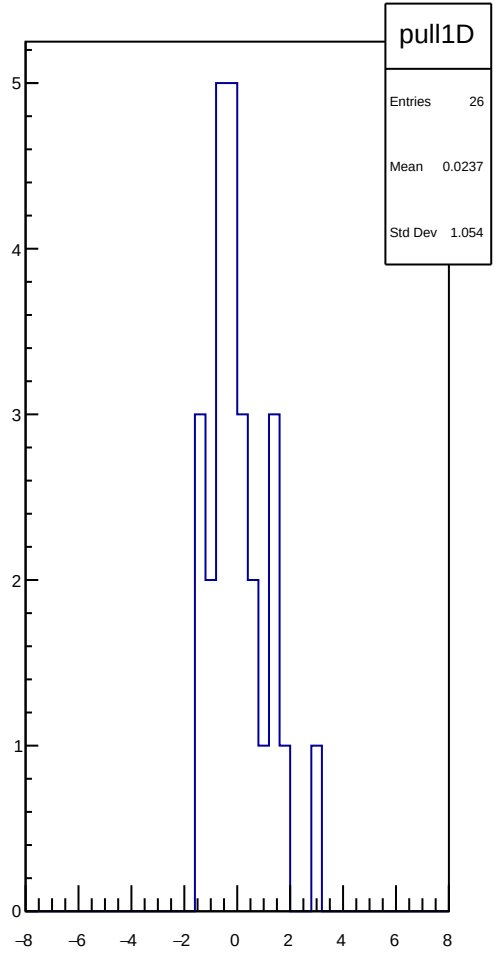

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 28.74 / 25
p0 91.75 ± 70.31
15000
10000
5000
0
−5000
−10000
−15000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 9.663
Std Dev 7.443
2
1.5
1
0.5
0
−0.5
−1
−1.5

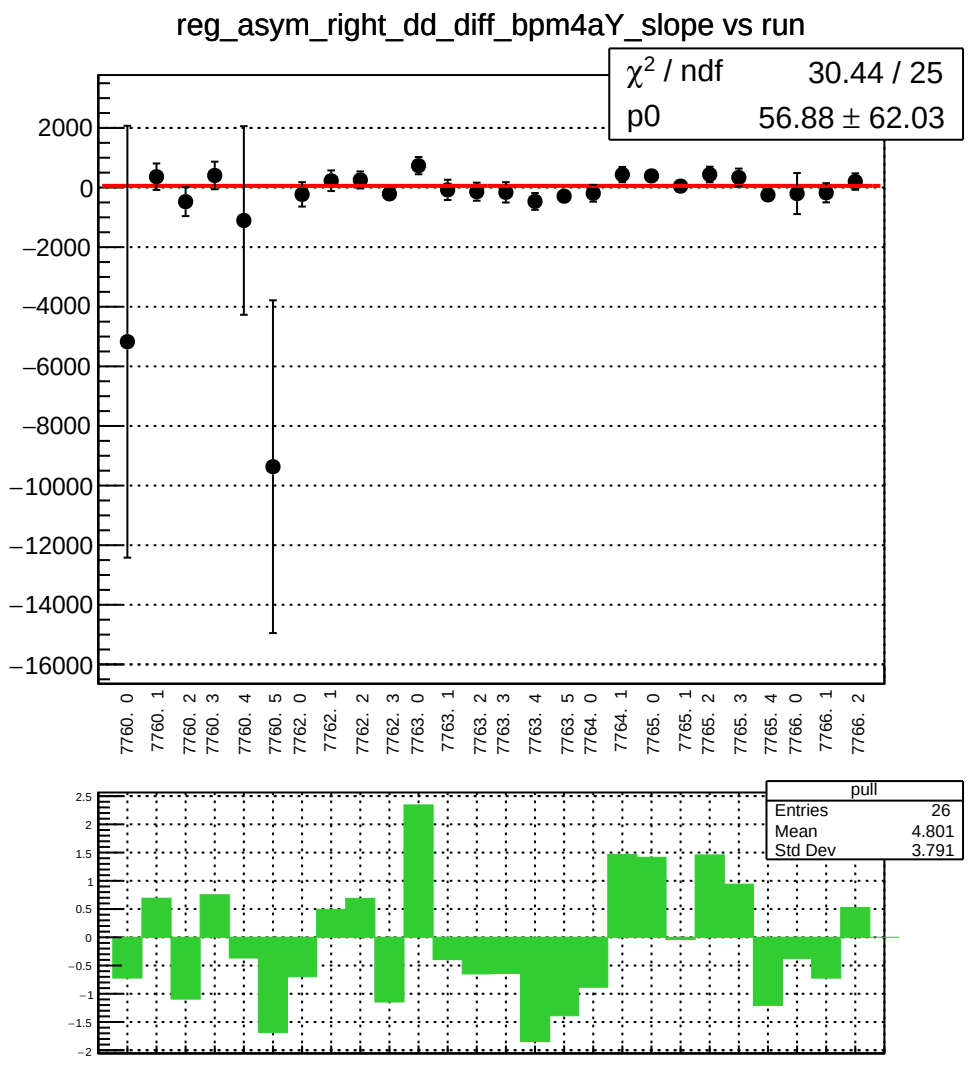

pull1D
Entries 26
Mean −0.0592
Std Dev 1.05
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

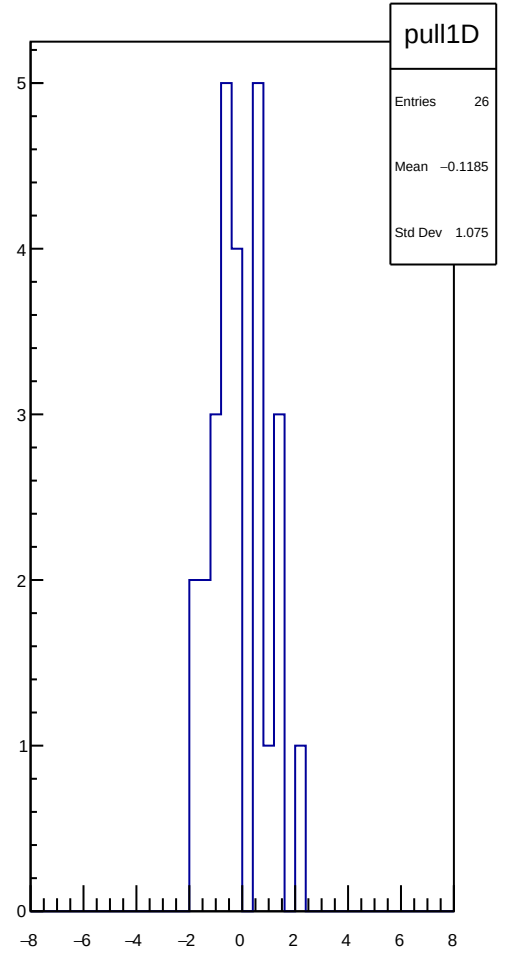

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 18.86 / 25
p0 −3.533 ± 1.925
100
0
−100
−200
−300
−400
−500
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 19.03
Std Dev 5.889
2
1.5
1
0.5
0
−0.5
−1
−1.5

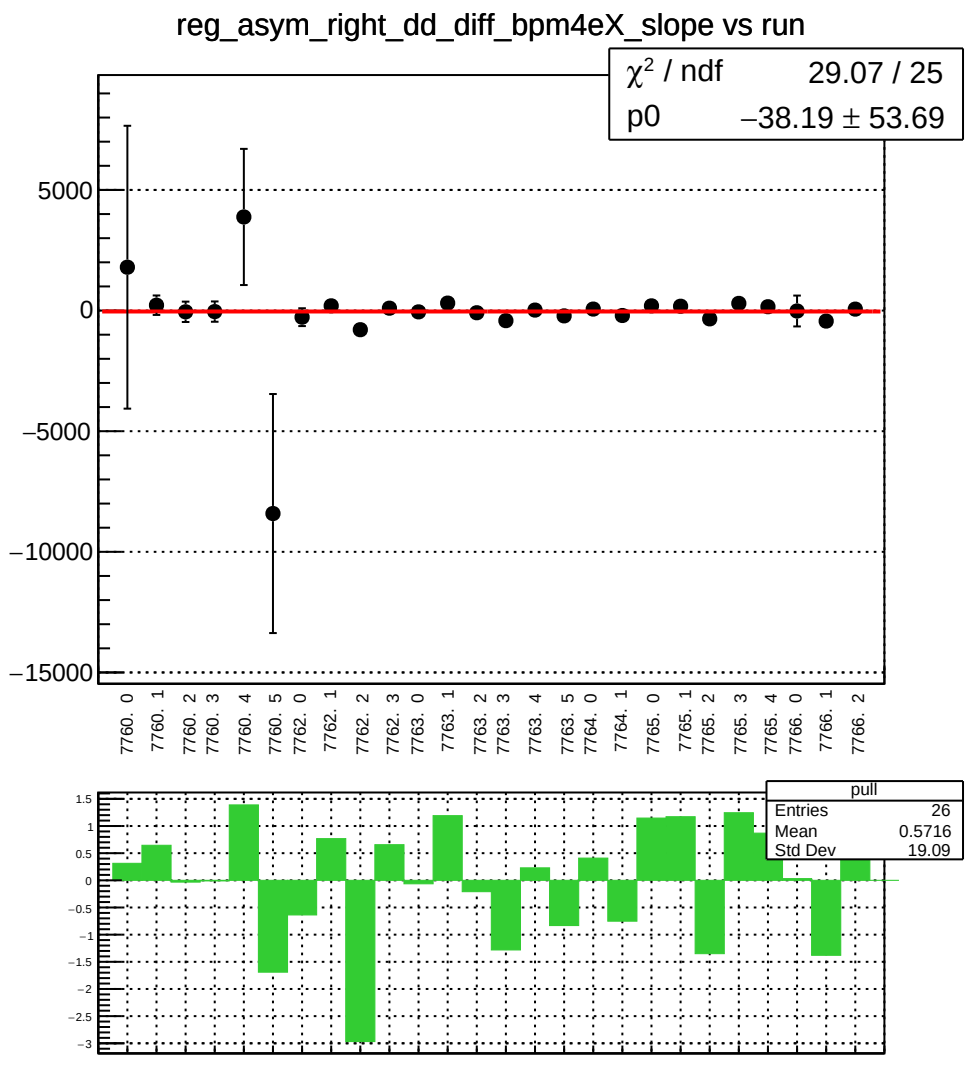

pull1D
Entries 26
Mean −0.1036
Std Dev 0.8453
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

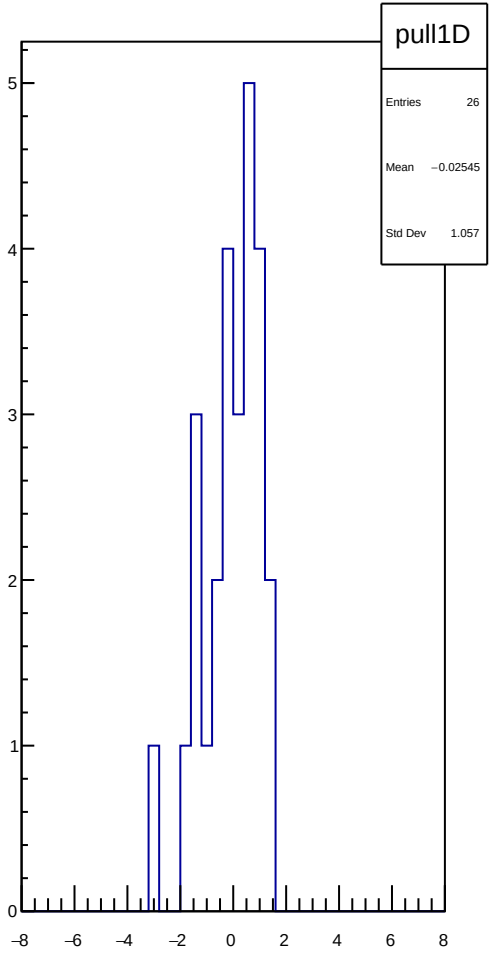

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 28.92 / 25
p0 48.02 ± 57.91
15000
10000
5000
0
−5000
−10000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −0.6965
Std Dev 21.08
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

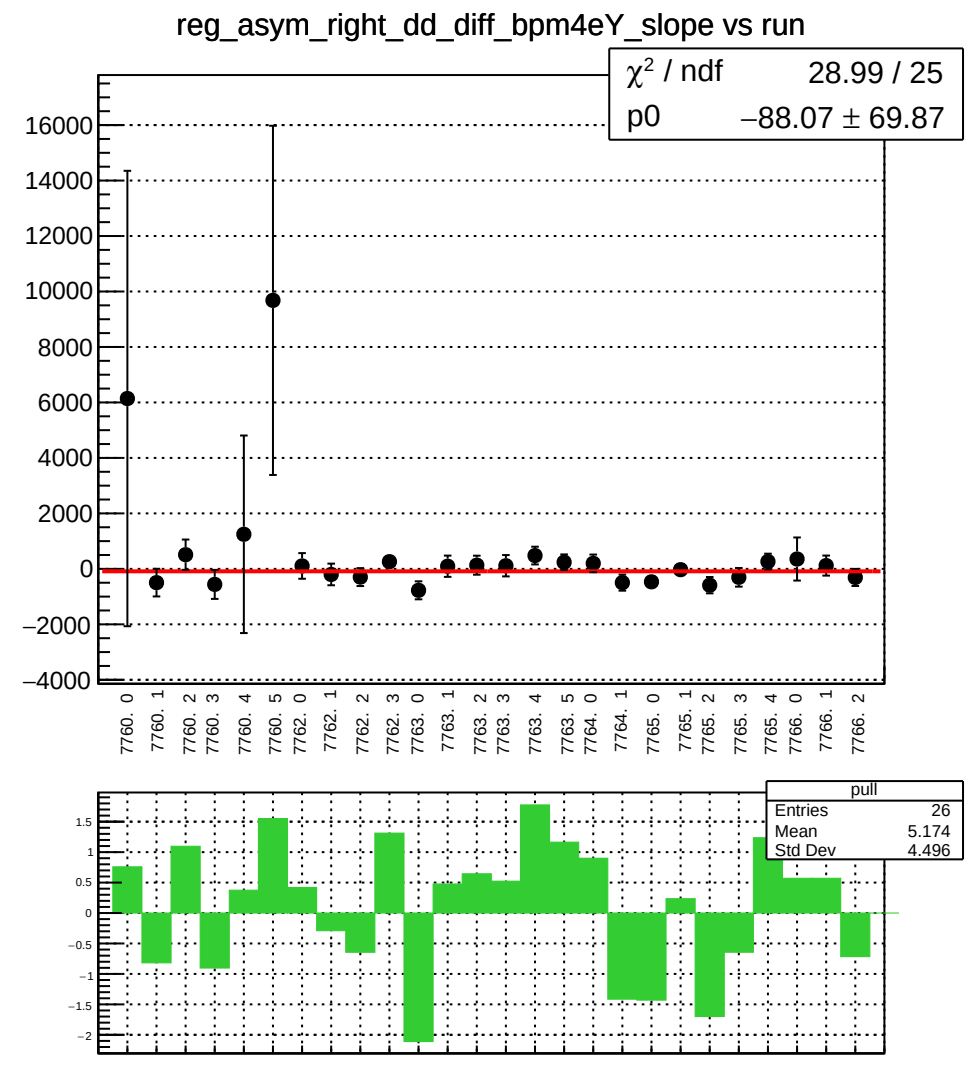

pull1D
Entries 26
Mean 0.0237
Std Dev 1.054
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

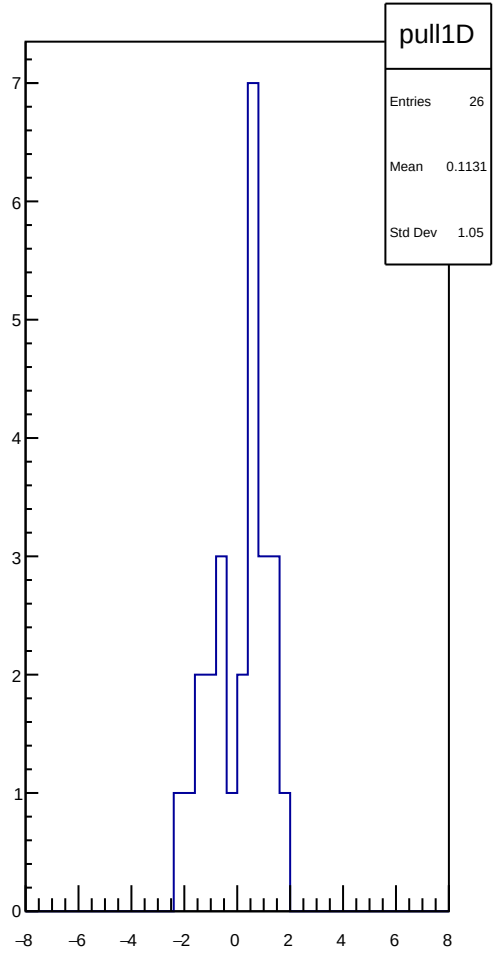

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 30.44 / 25
p0 56.88 ± 62.03
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
−14000
−16000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 4.801
Std Dev 3.791
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

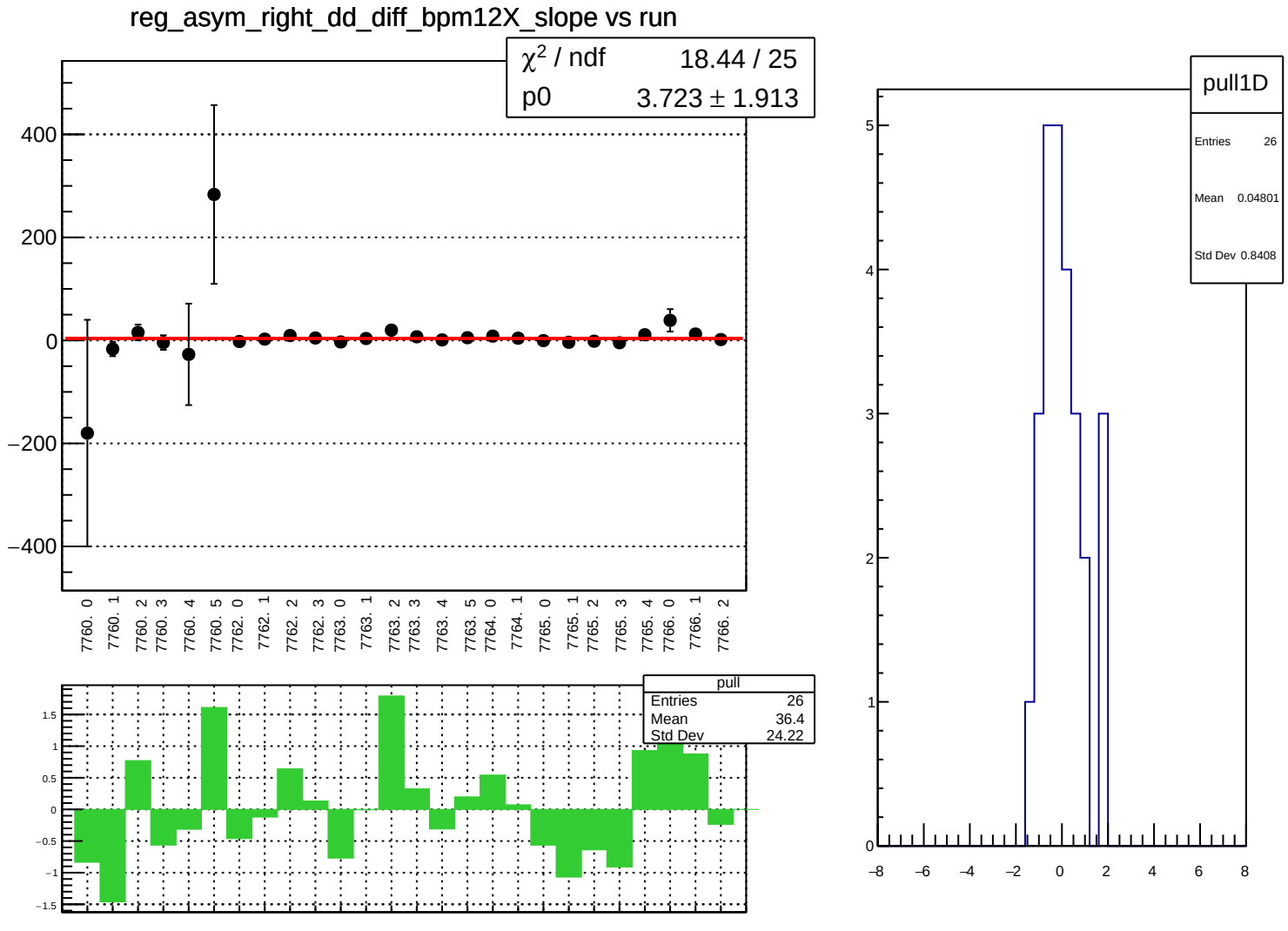

pull1D
Entries 26
Mean −0.1185
Std Dev 1.075
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

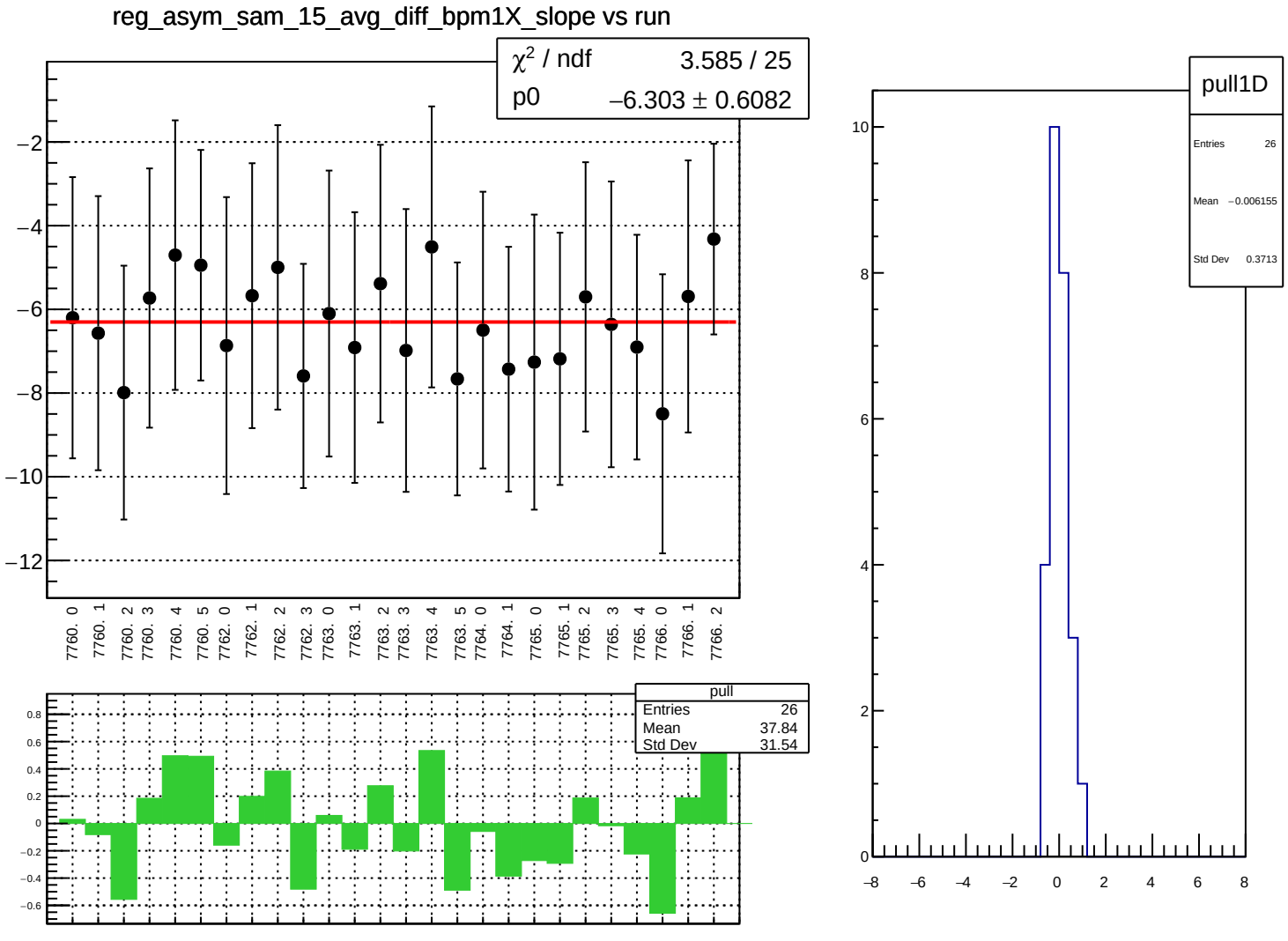

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 29.07 / 25
p0 −38.19 ± 53.69
5000
0
−5000
−10000
−15000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 0.5716
Std Dev 19.09
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

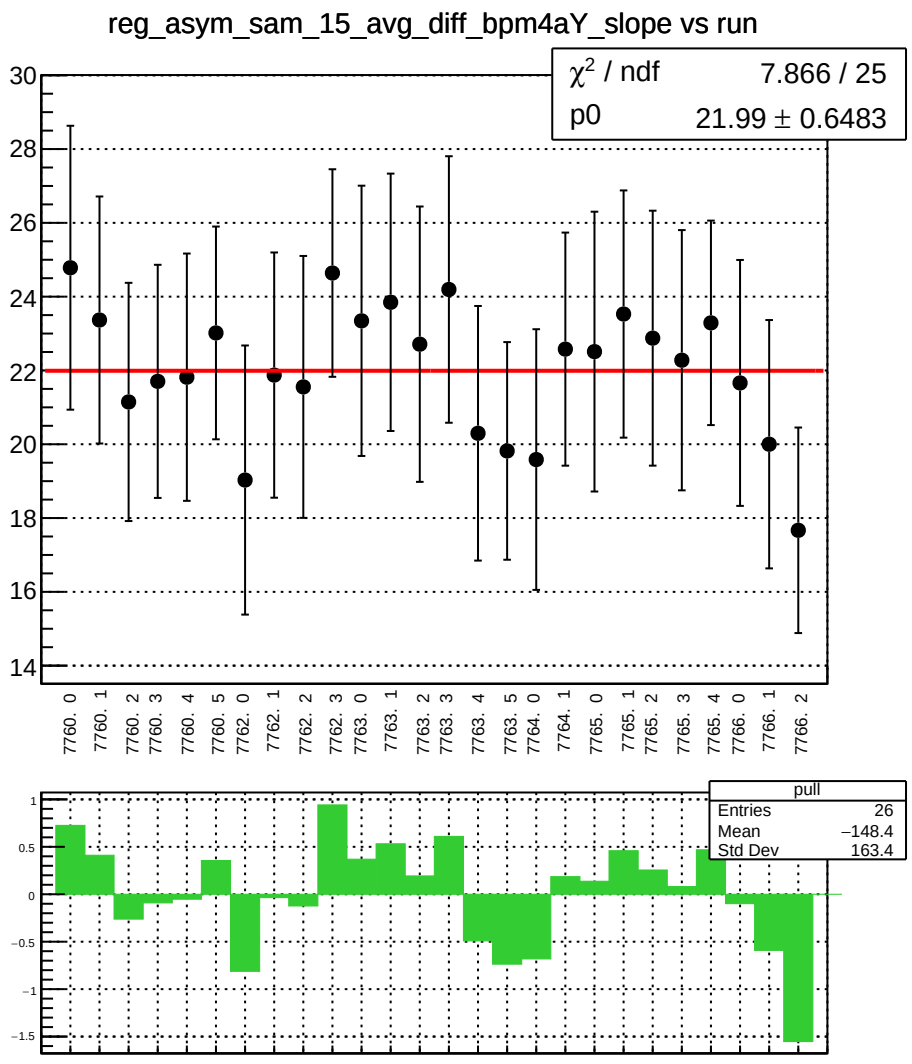

pull1D
Entries 26
Mean −0.02545
Std Dev 1.057
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

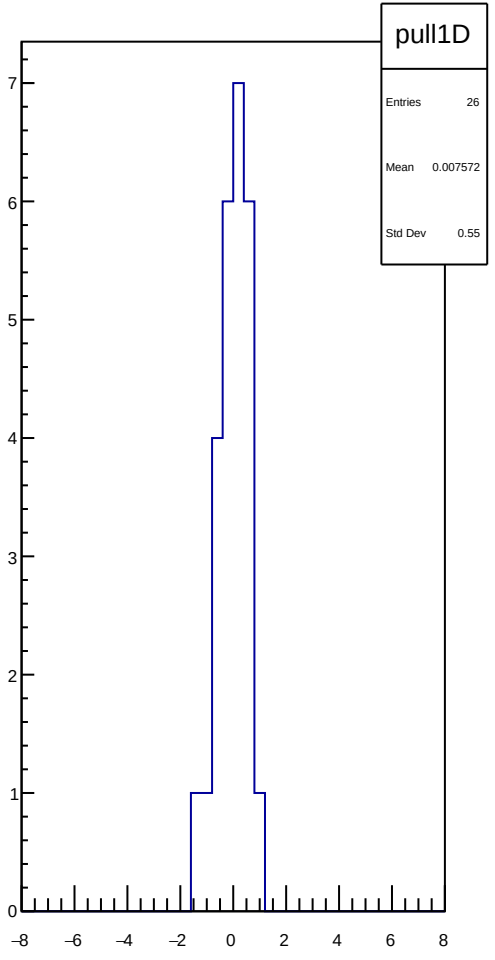

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 28.99 / 25
p0 −88.07 ± 69.87
16000
14000
12000
10000
8000
6000
4000
2000
0
−2000
−4000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 5.174
Std Dev 4.496
1.5
1
0.5
0
−0.5
−1
−1.5
−2

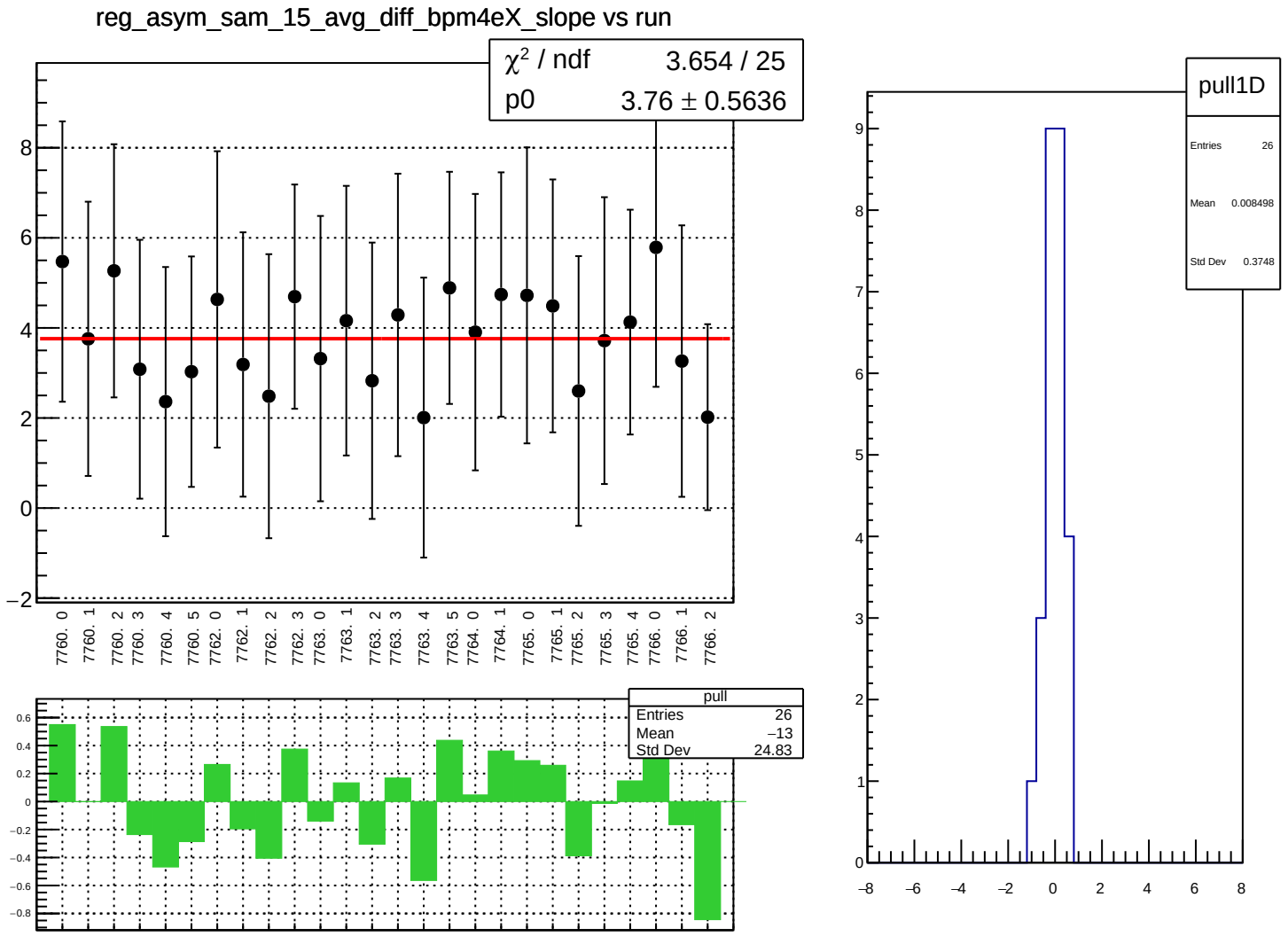

pull1D
Entries 26
Mean 0.1131
Std Dev 1.05
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

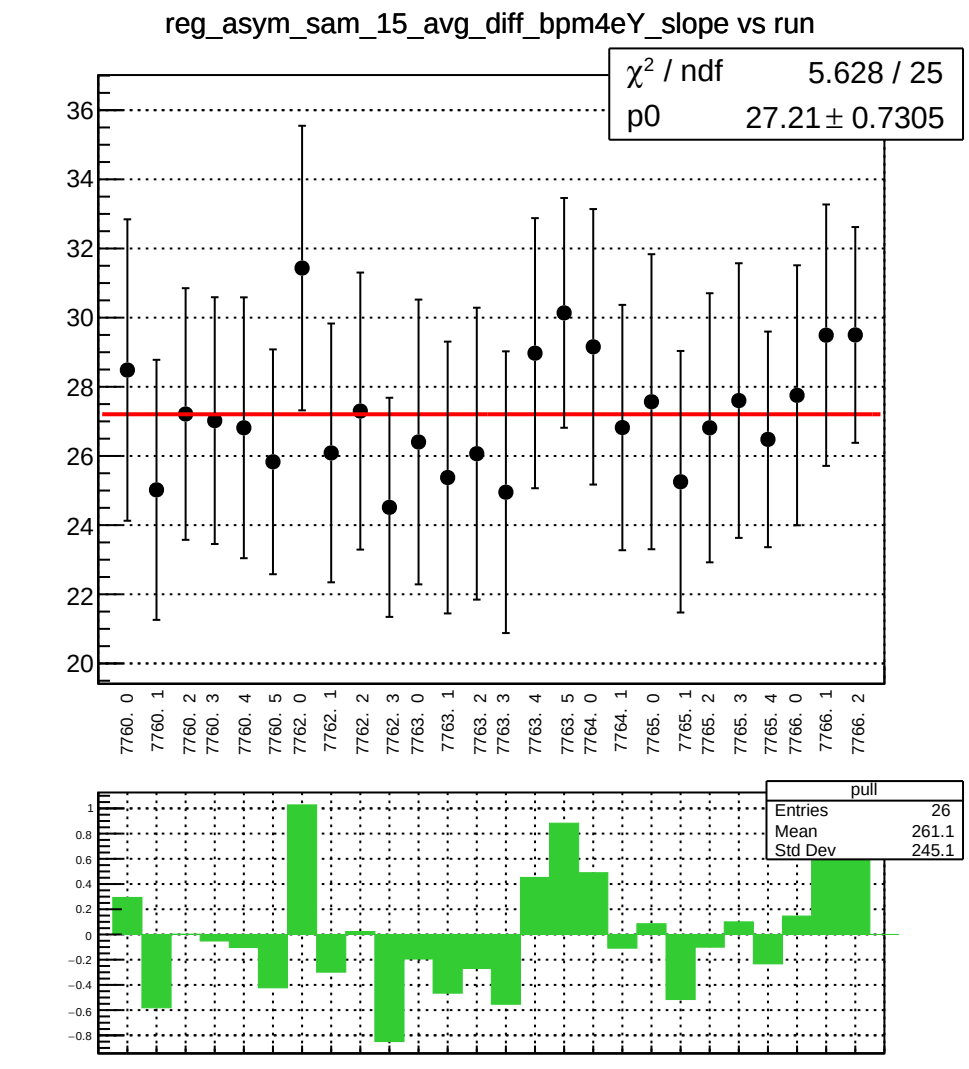

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 18.44 / 25
p0 3.723 ± 1.913
400
200
0
−200
−400
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 36.4
Std Dev 24.22
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 26
Mean 0.04801
Std Dev 0.8408
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

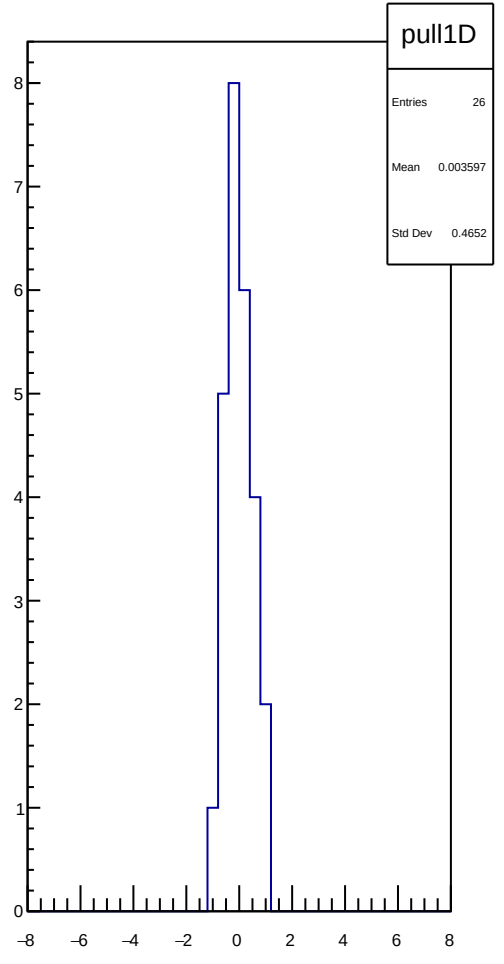

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 3.585 / 25
p0 −6.303 ± 0.6082
−2
−4
−6
−8
−10
−12
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 37.84
Std Dev 31.54
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 26
Mean −0.006155
Std Dev 0.3713
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

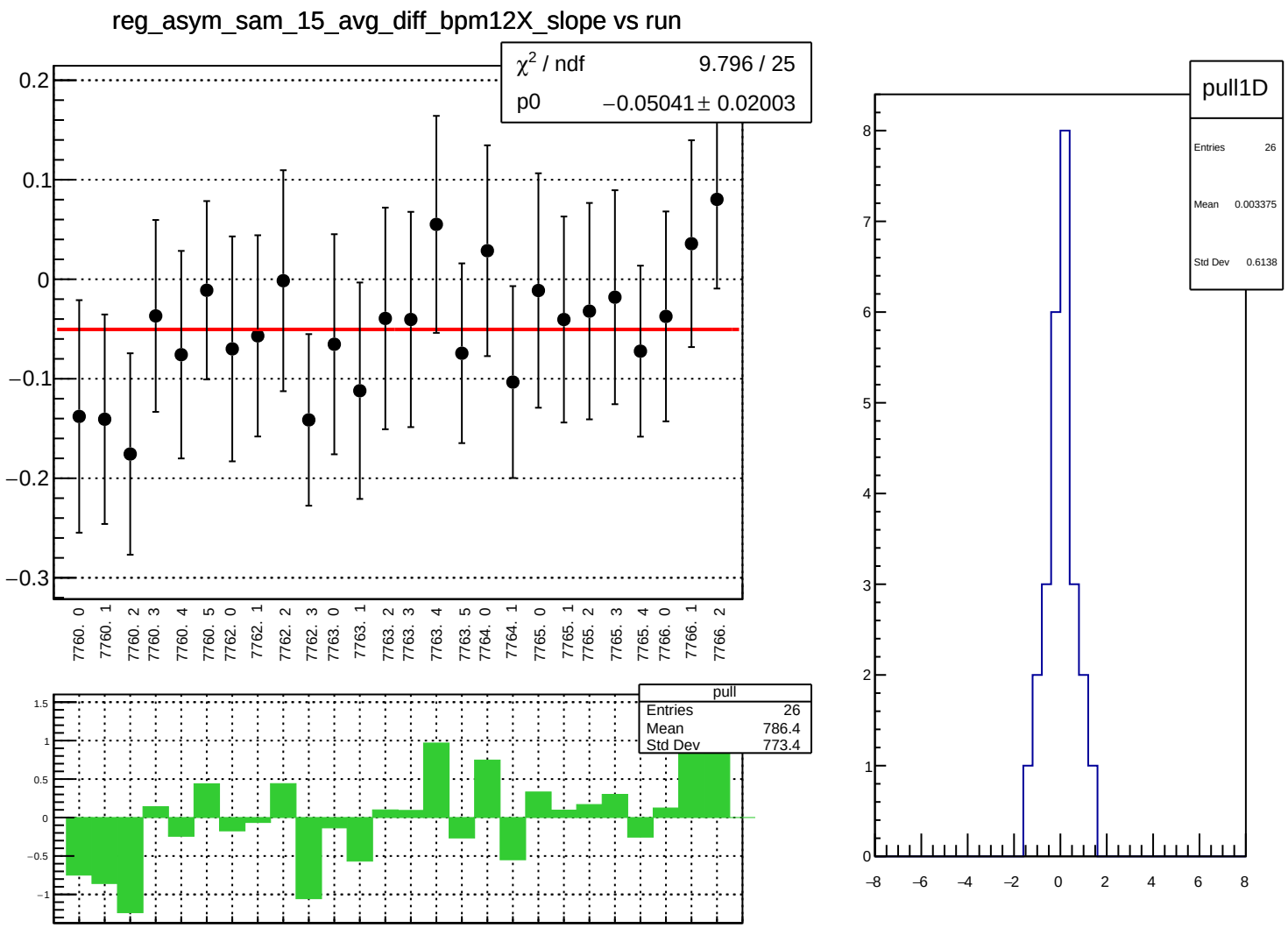

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.866 / 25
p0 21.99 ± 0.6483
30
28
26
24
22
20
18
16
14
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −148.4
Std Dev 163.4
1
0.5
0
−0.5
−1
−1.5

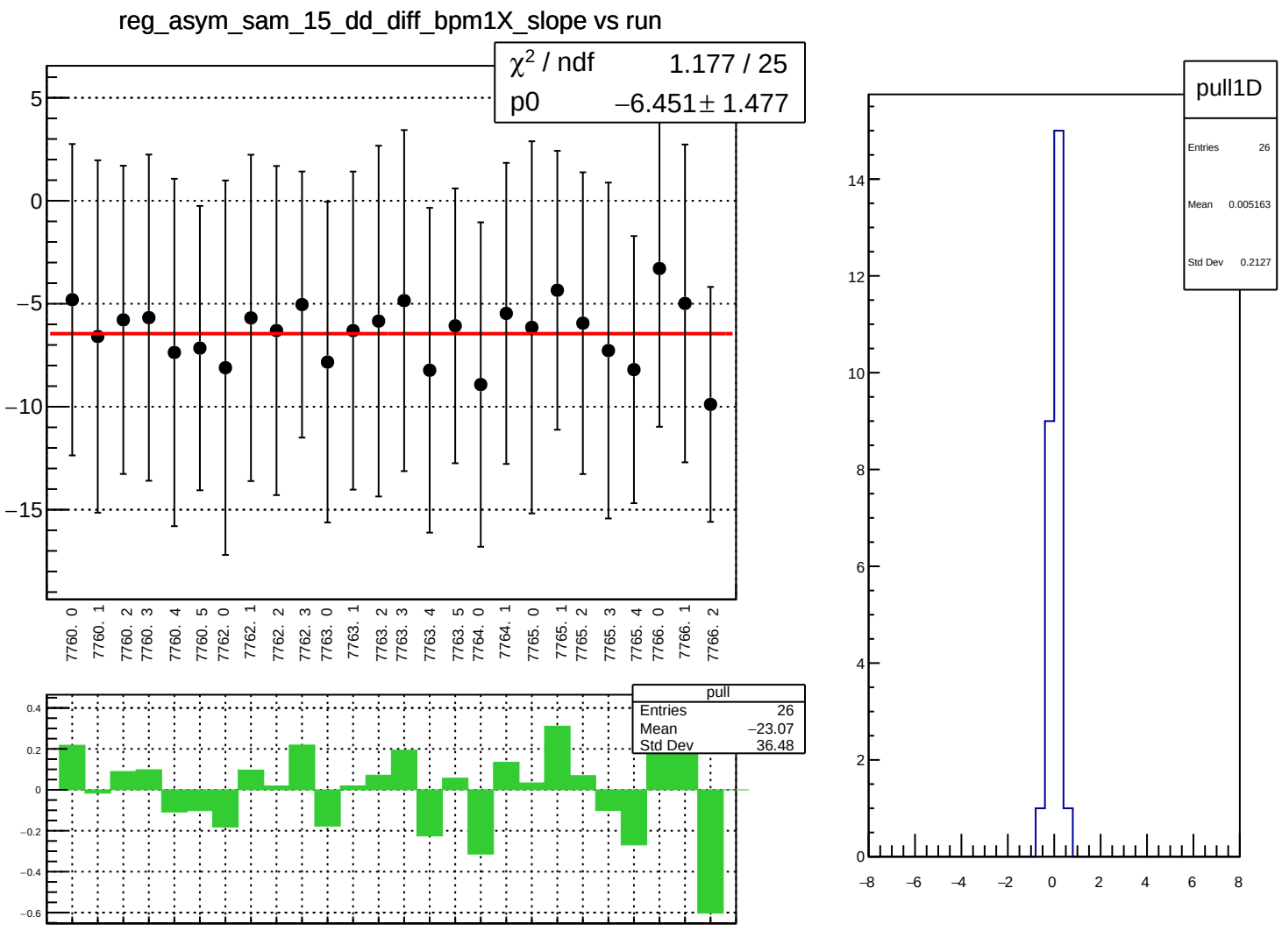

pull1D
Entries 26
Mean 0.007572
Std Dev 0.55
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

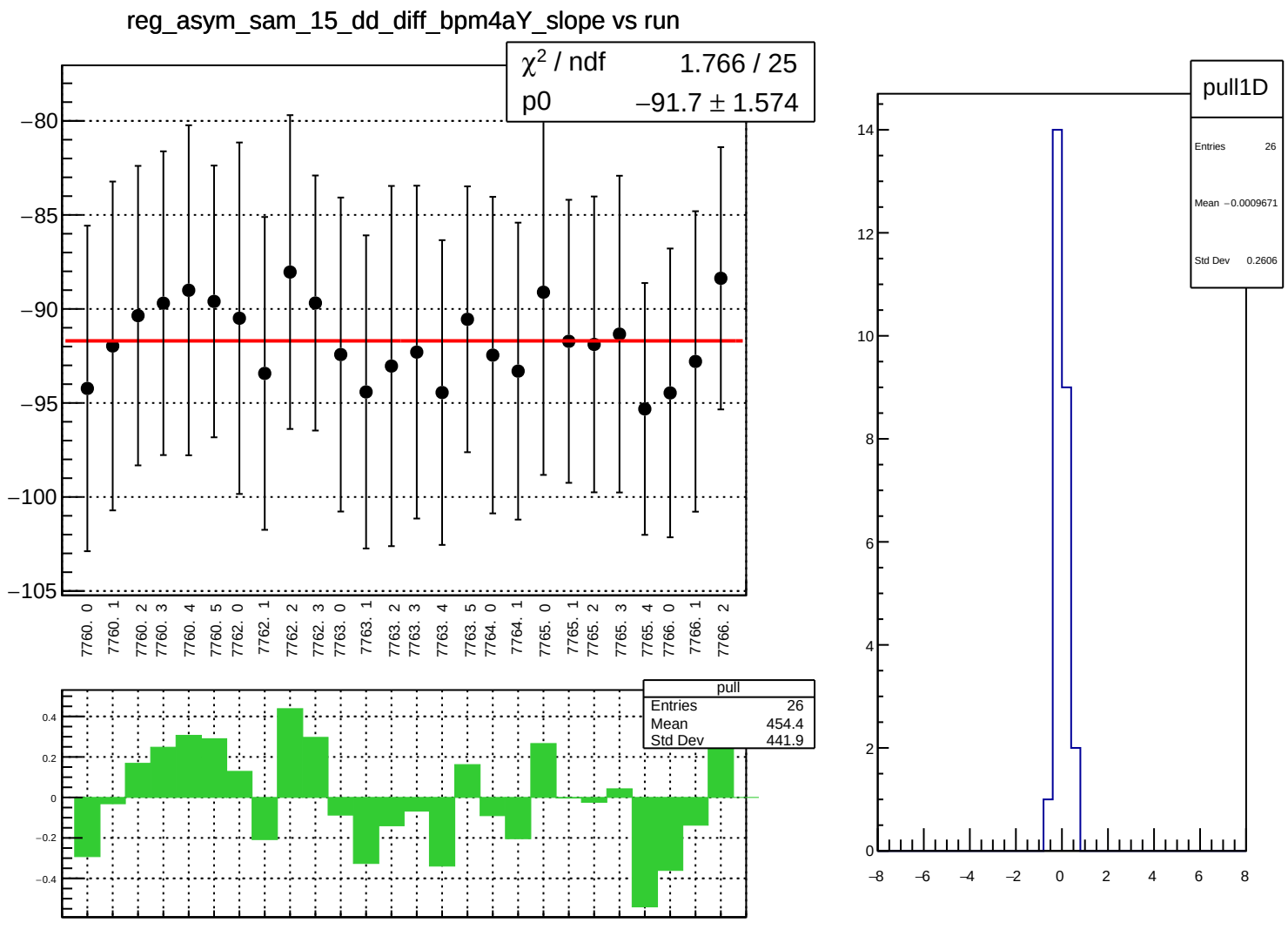

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.654 / 25
p0 3.76 ± 0.5636
8
6
4
2
0
−2
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −13
Std Dev 24.83
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 26
Mean 0.008498
Std Dev 0.3748
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

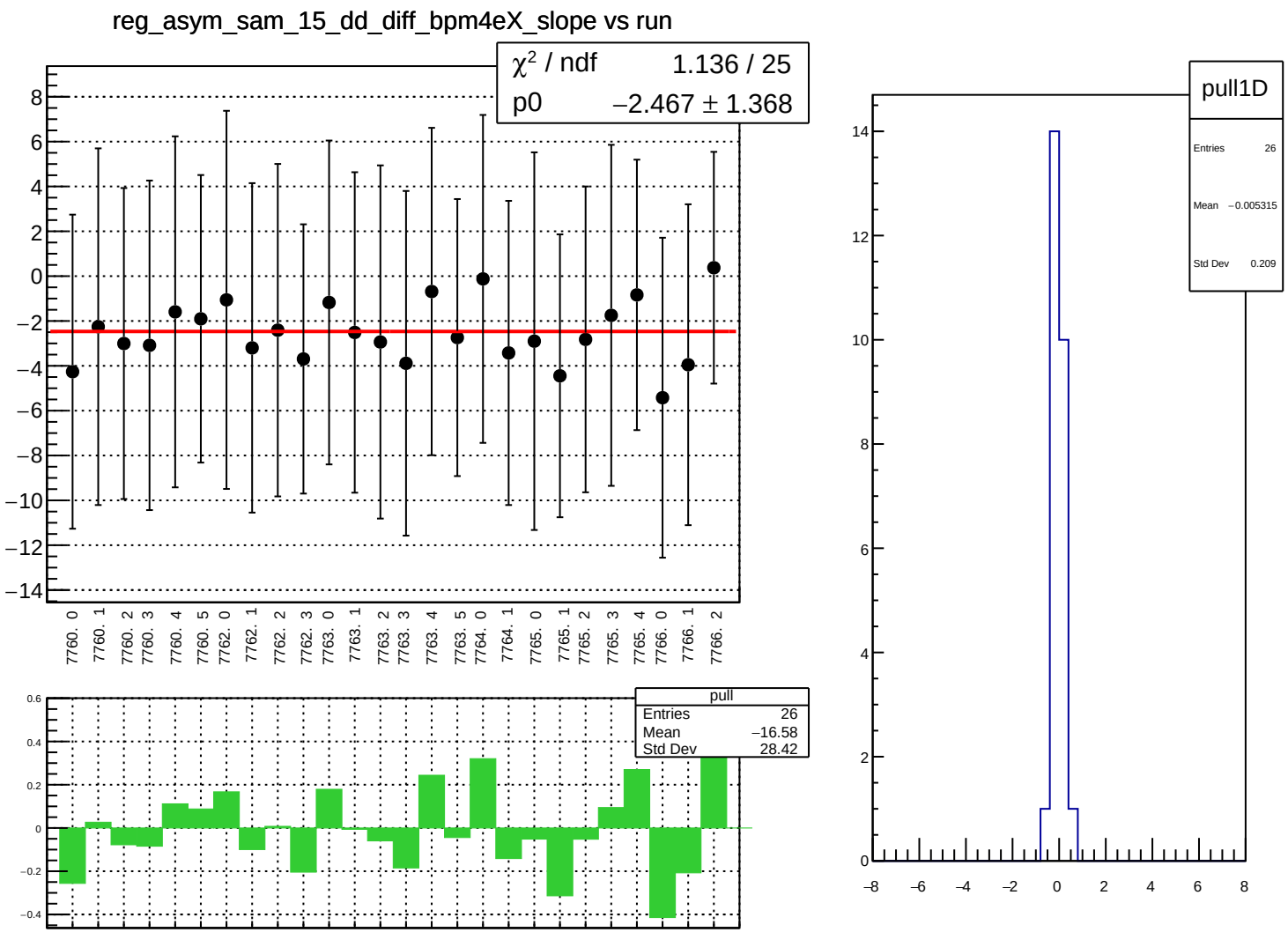

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.628 / 25
p0 27.21 ± 0.7305
pull
Entries 26
Mean 261.1
Std Dev 245.1

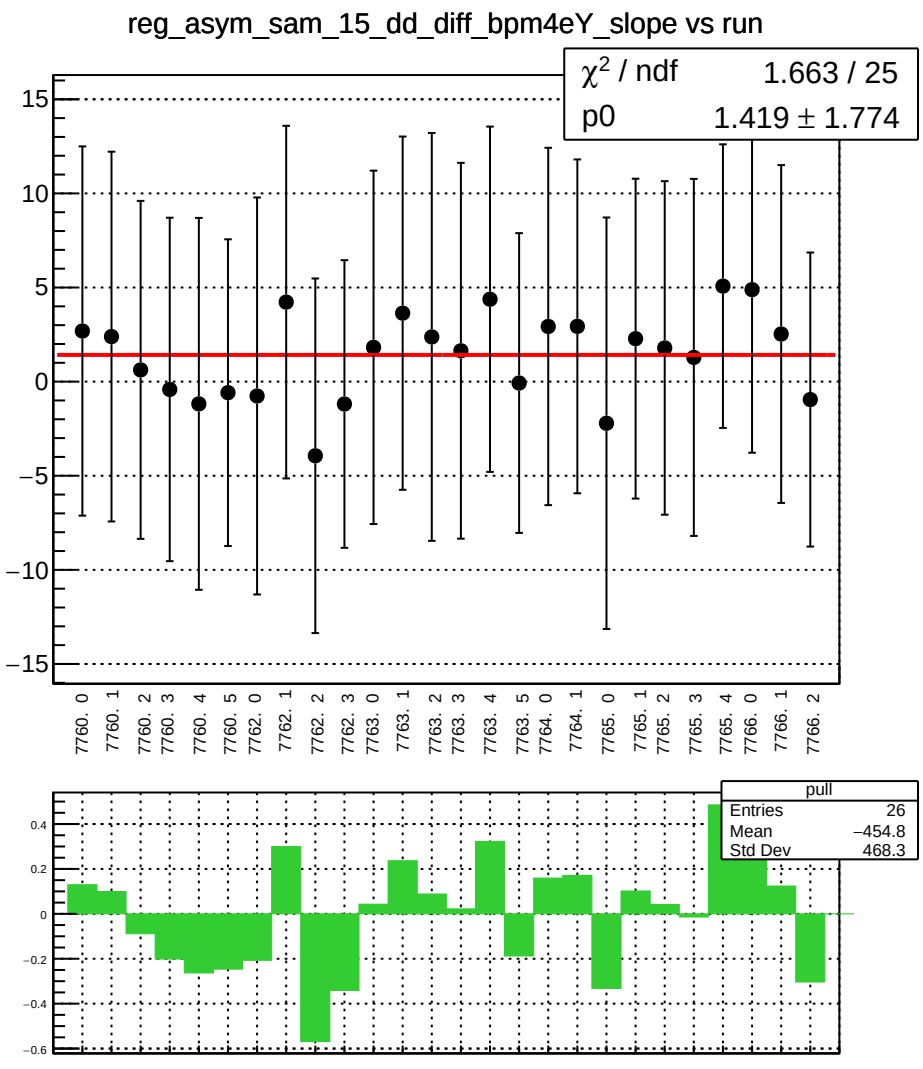

pull1D
Entries 26
Mean 0.003597
Std Dev 0.4652

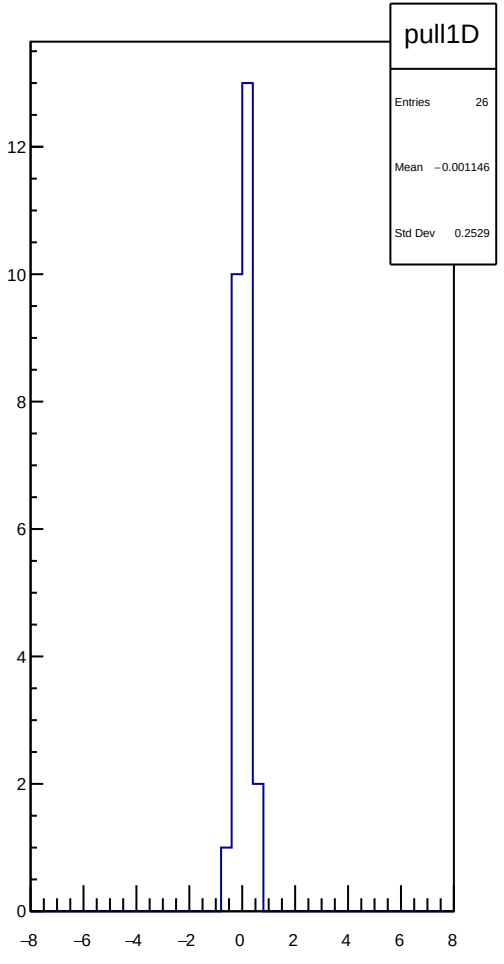

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 9.796 / 25
p0 −0.05041 ± 0.02003
0.2
0.1
0
−0.1
−0.2
−0.3
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 786.4
Std Dev 773.4
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 26
Mean 0.003375
Std Dev 0.6138
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

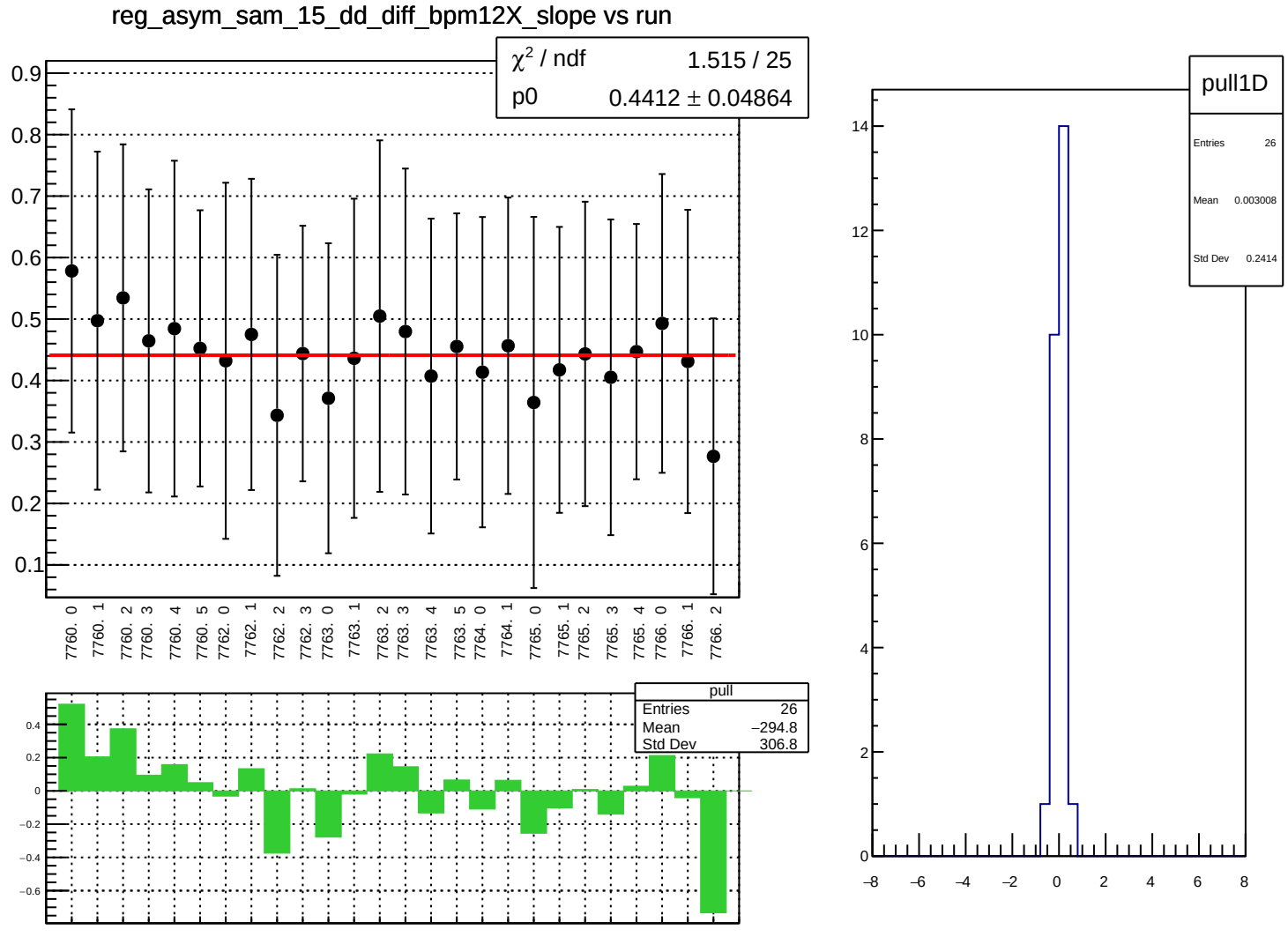

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 1.177 / 25
p0 −6.451 ± 1.477
5
0
−5
−10
−15
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −23.07
Std Dev 36.48
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 26
Mean 0.005163
Std Dev 0.2127
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

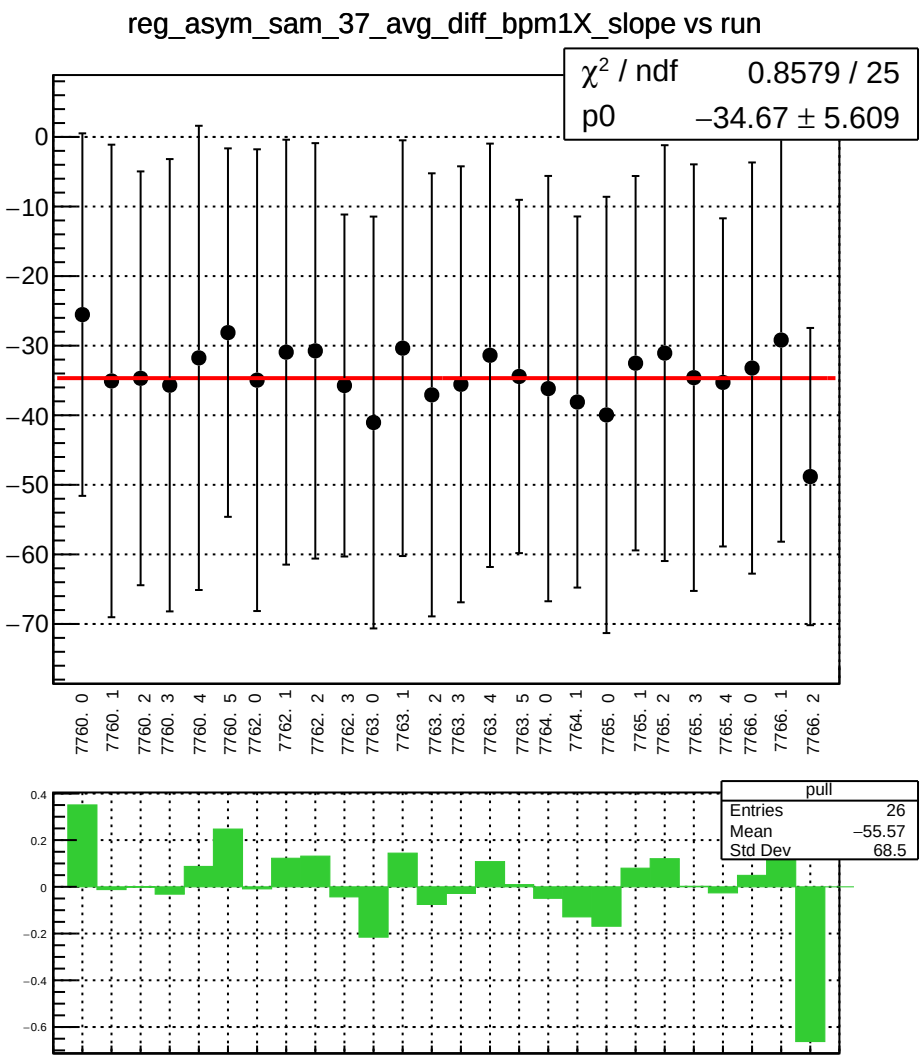

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.766 / 25
p0 −91.7 ± 1.574
−80
−85
−90
−95
−100
−105
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 454.4
Std Dev 441.9
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 26
Mean −0.0009671
Std Dev 0.2606
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

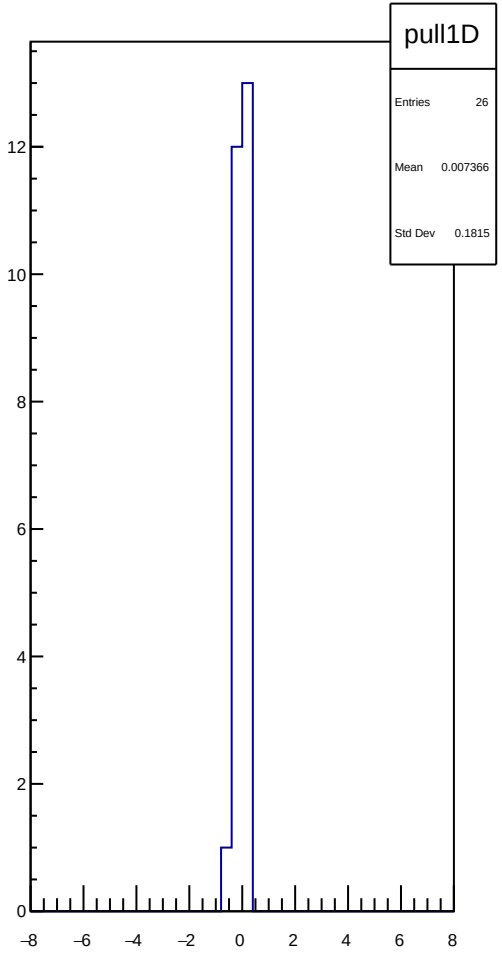

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.136 / 25
p0 −2.467 ± 1.368
8
6
4
2
0
−2
−4
−6
−8
−10
−12
−14
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −16.58
Std Dev 28.42
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 26
Mean −0.005315
Std Dev 0.209
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

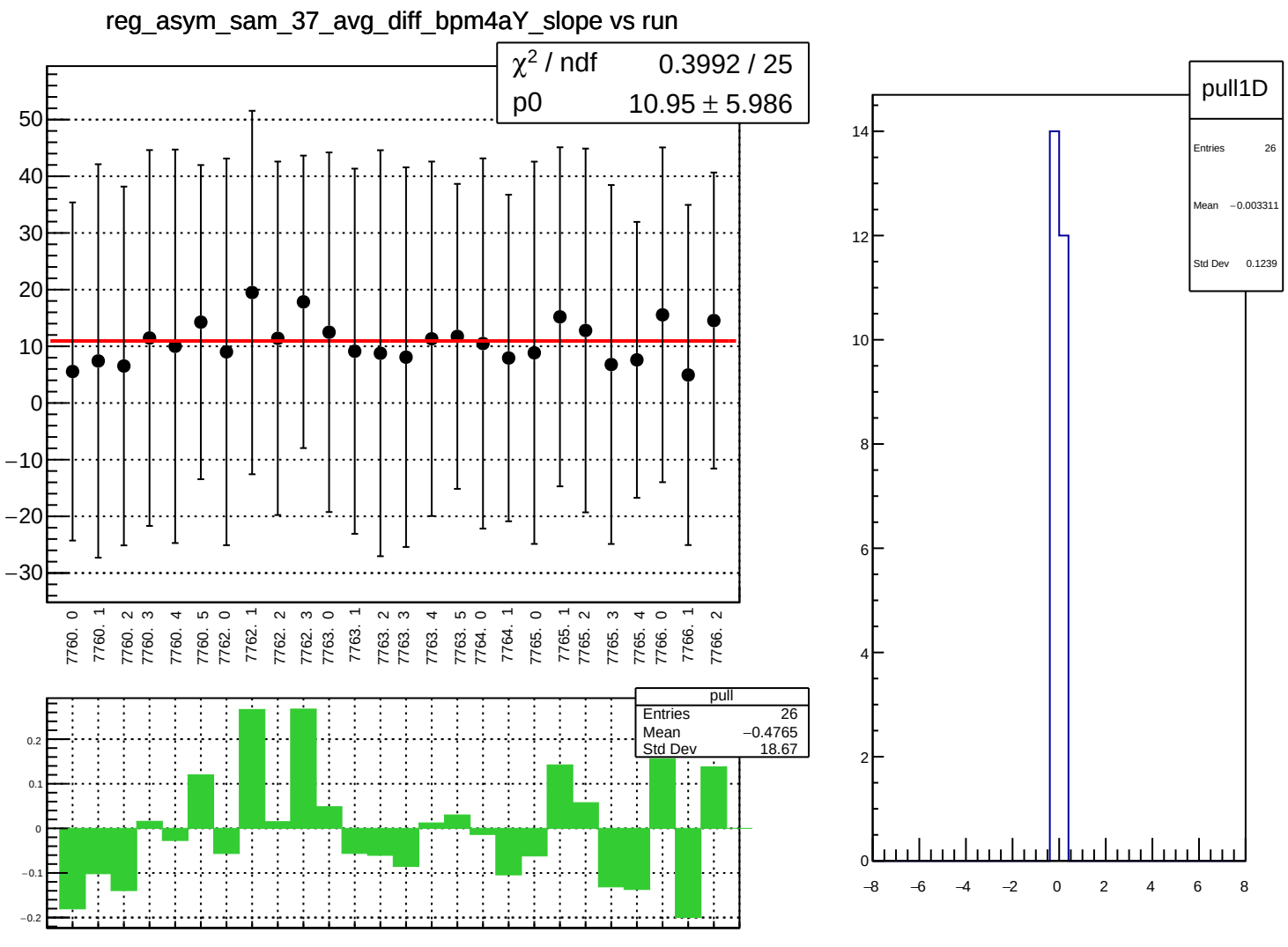

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.663 / 25
p0 1.419 ± 1.774
15
10
5
0
−5
−10
−15
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −454.8
Std Dev 468.3
0.4
0.2
0
−0.2
−0.4
−0.6

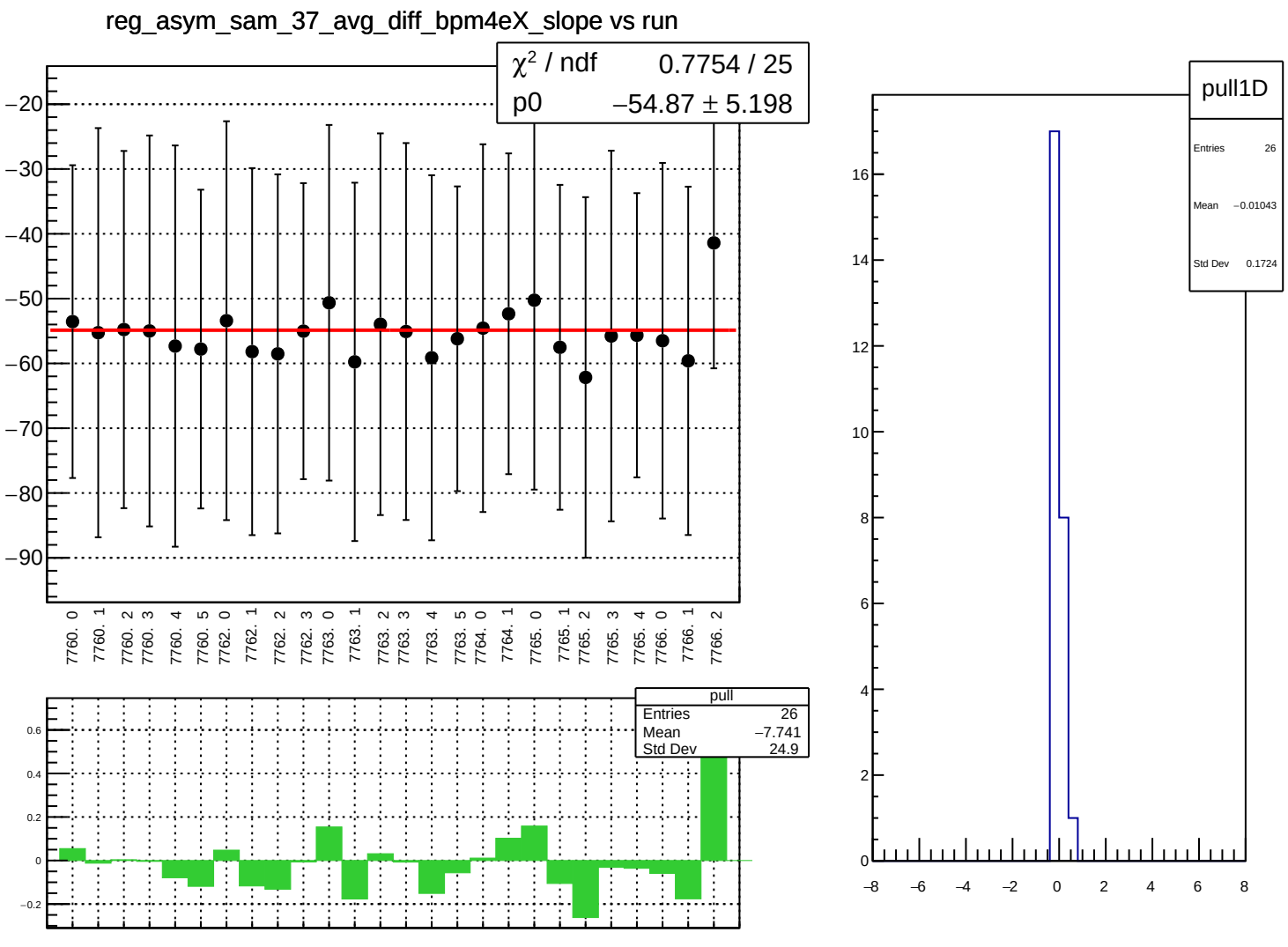

pull1D
Entries 26
Mean −0.001146
Std Dev 0.2529
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

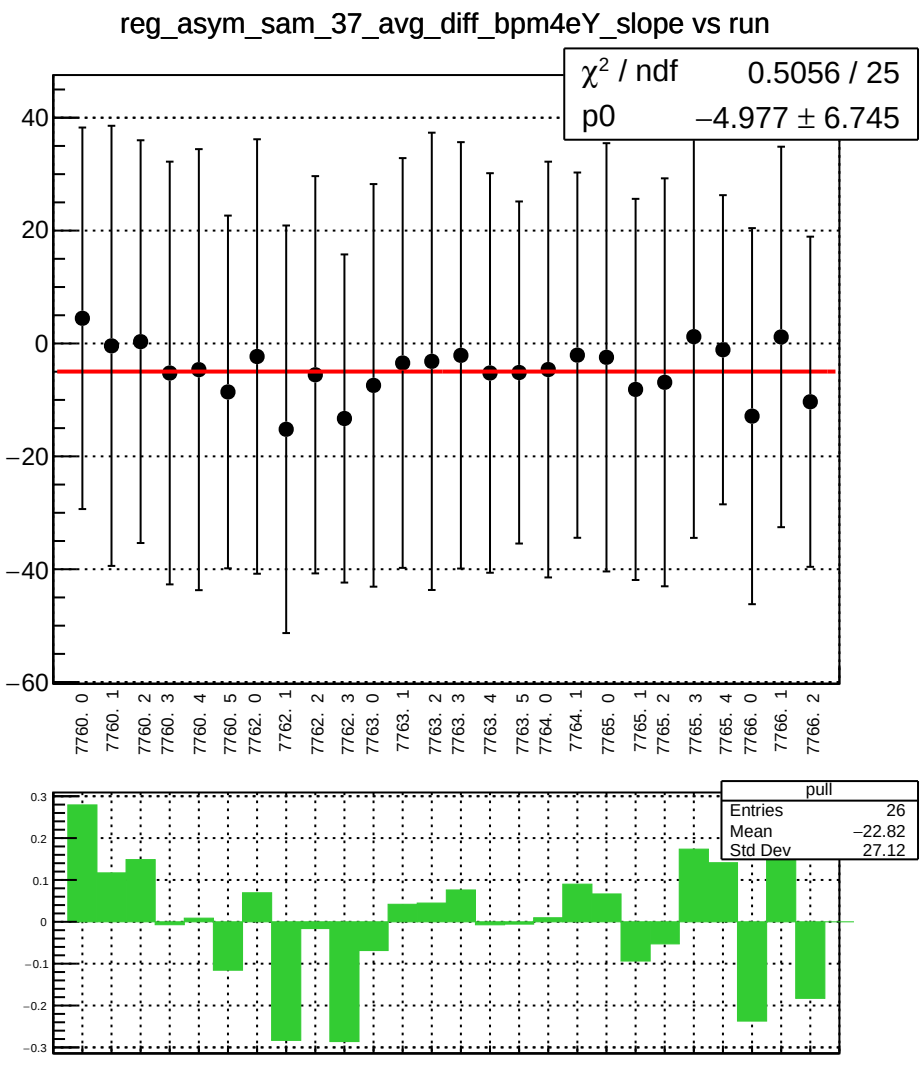

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 1.515 / 25
p0 0.4412 ± 0.04864
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −294.8
Std Dev 306.8
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 26
Mean 0.003008
Std Dev 0.2414
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

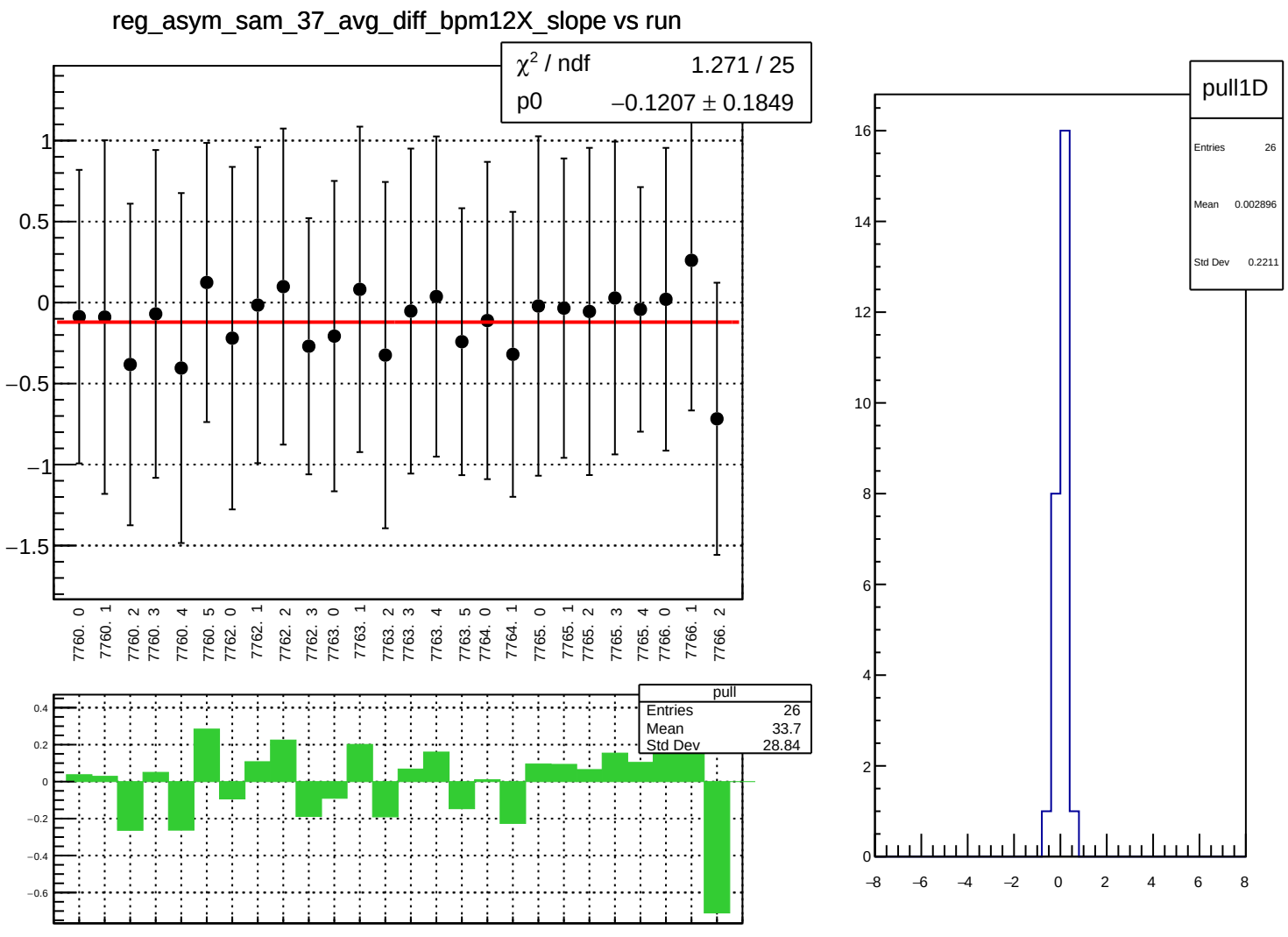

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 0.8579 / 25
p0 −34.67 ± 5.609
0
−10
−20
−30
−40
−50
−60
−70
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −55.57
Std Dev 68.5
0.4
0.2
0
−0.2
−0.4
−0.6

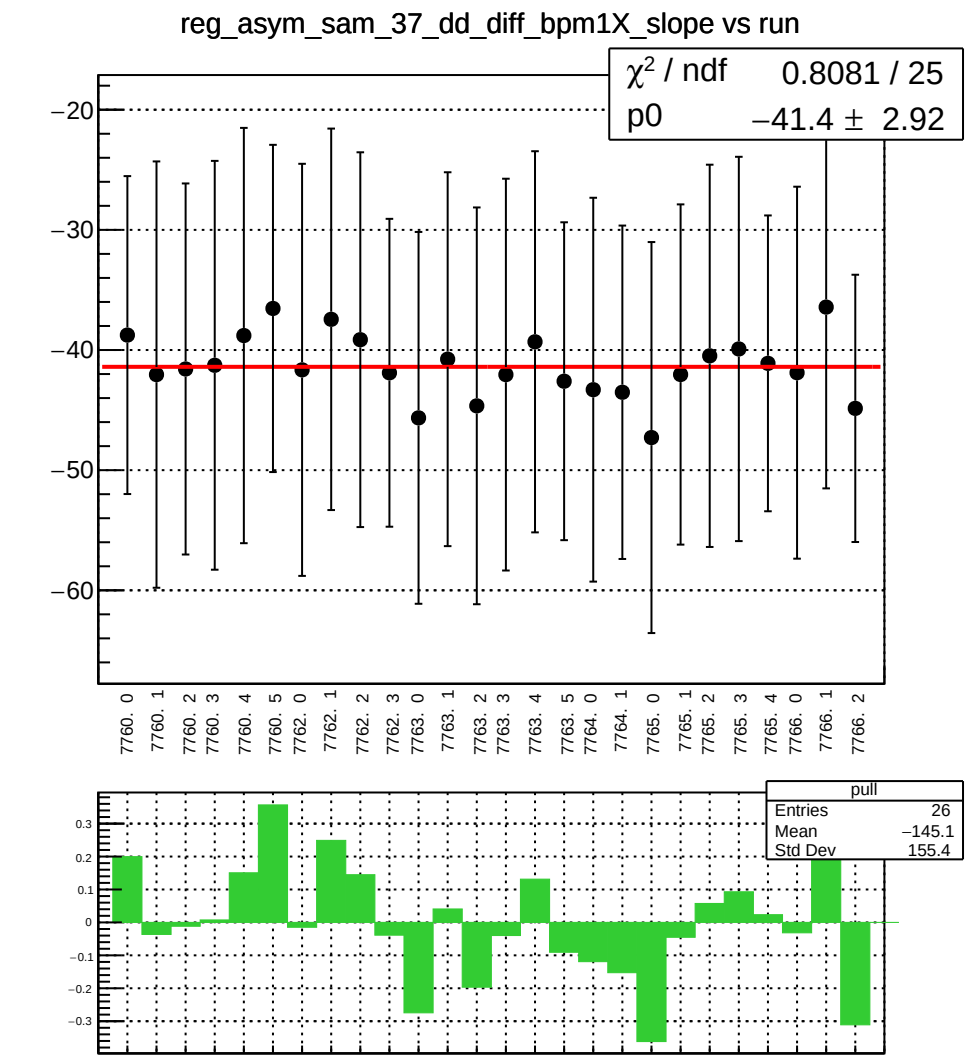

pull1D
Entries 26
Mean 0.007366
Std Dev 0.1815
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

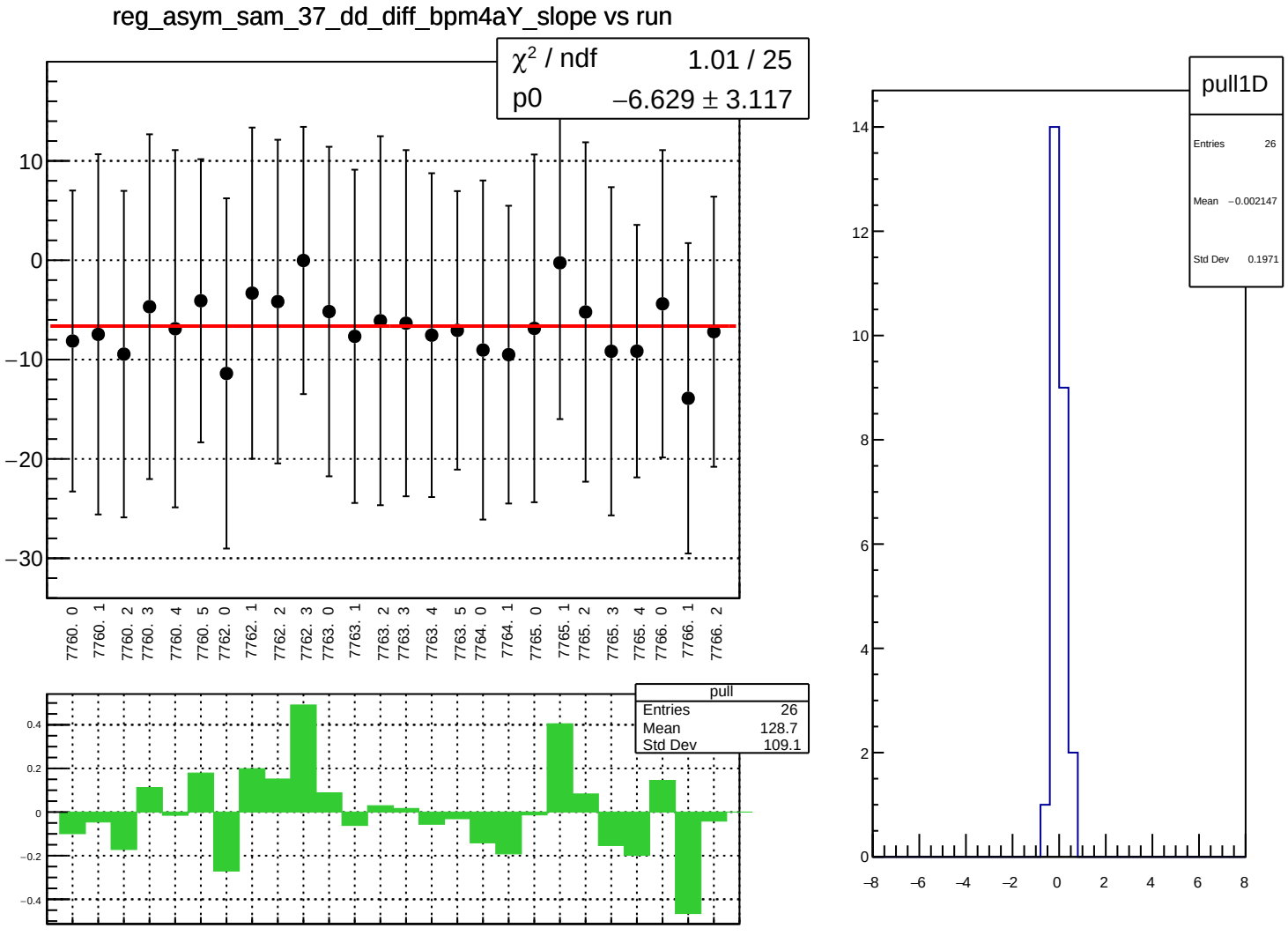

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.3992 / 25
p0 10.95 ± 5.986
50
40
30
20
10
0
−10
−20
−30
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −0.4765
Std Dev 18.67
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 26
Mean −0.003311
Std Dev 0.1239
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

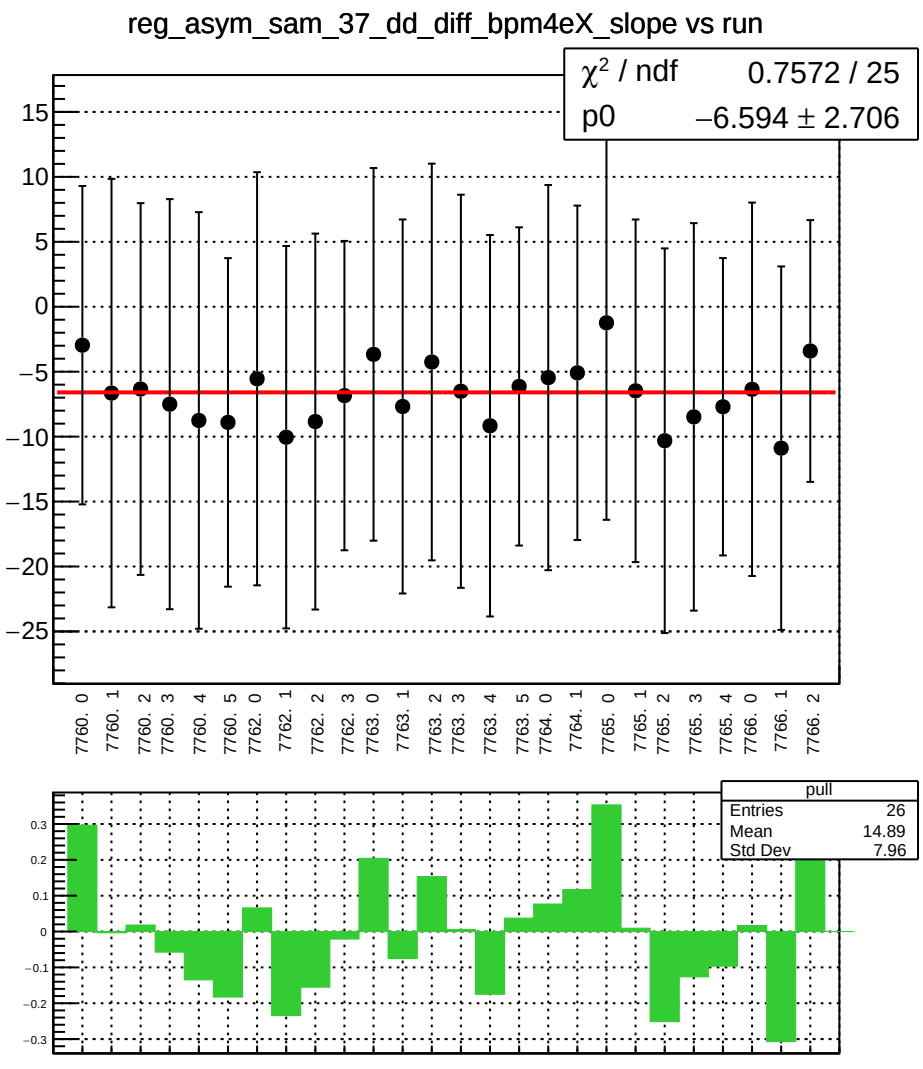

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 0.7754 / 25
p0 −54.87 ± 5.198
−20
−30
−40
−50
−60
−70
−80
−90
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −7.741
Std Dev 24.9
0.6
0.4
0.2
0
−0.2
pull1D
Entries 26
Mean −0.01043
Std Dev 0.1724
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

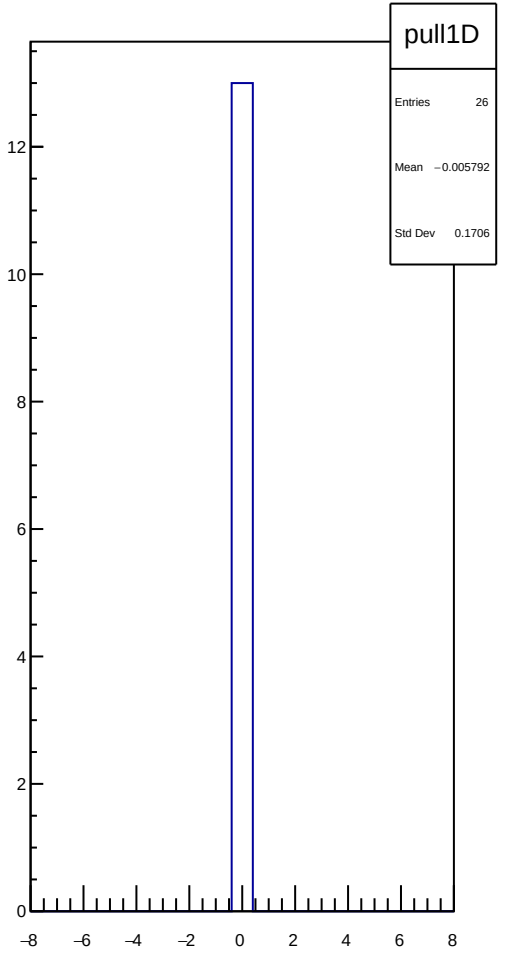

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.5056 / 25
p0 −4.977 ± 6.745
40
20
0
−20
−40
−60
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −22.82
Std Dev 27.12
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 26
Mean 0.003566
Std Dev 0.1394
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 1.271 / 25
p0 −0.1207 ± 0.1849
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
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 33.7
Std Dev 28.84
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 26
Mean 0.002896
Std Dev 0.2211
16
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 0.8081 / 25
p0 −41.4 ± 2.92
−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
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −145.1
Std Dev 155.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 26
Mean 0.002304
Std Dev 0.1763
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 1.01 / 25
p0 −6.629 ± 3.117
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
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 128.7
Std Dev 109.1
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 26
Mean −0.002147
Std Dev 0.1971
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 0.7572 / 25
p0 −6.594 ± 2.706
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
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 14.89
Std Dev 7.96
0.3
0.2
0.1
0
−0.1
−0.2
−0.3


pull1D
Entries 26
Mean −0.005792
Std Dev 0.1706
12
10
8
6
4
2
0
−8
−6
−4
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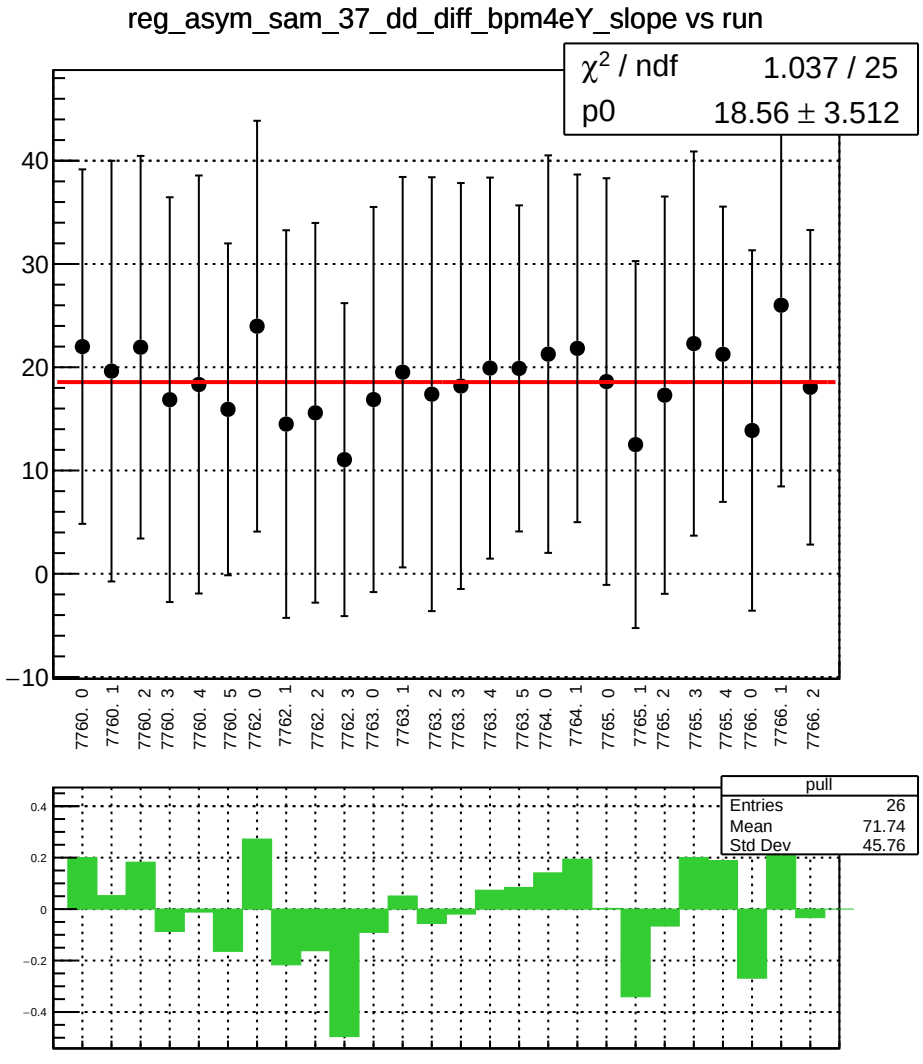
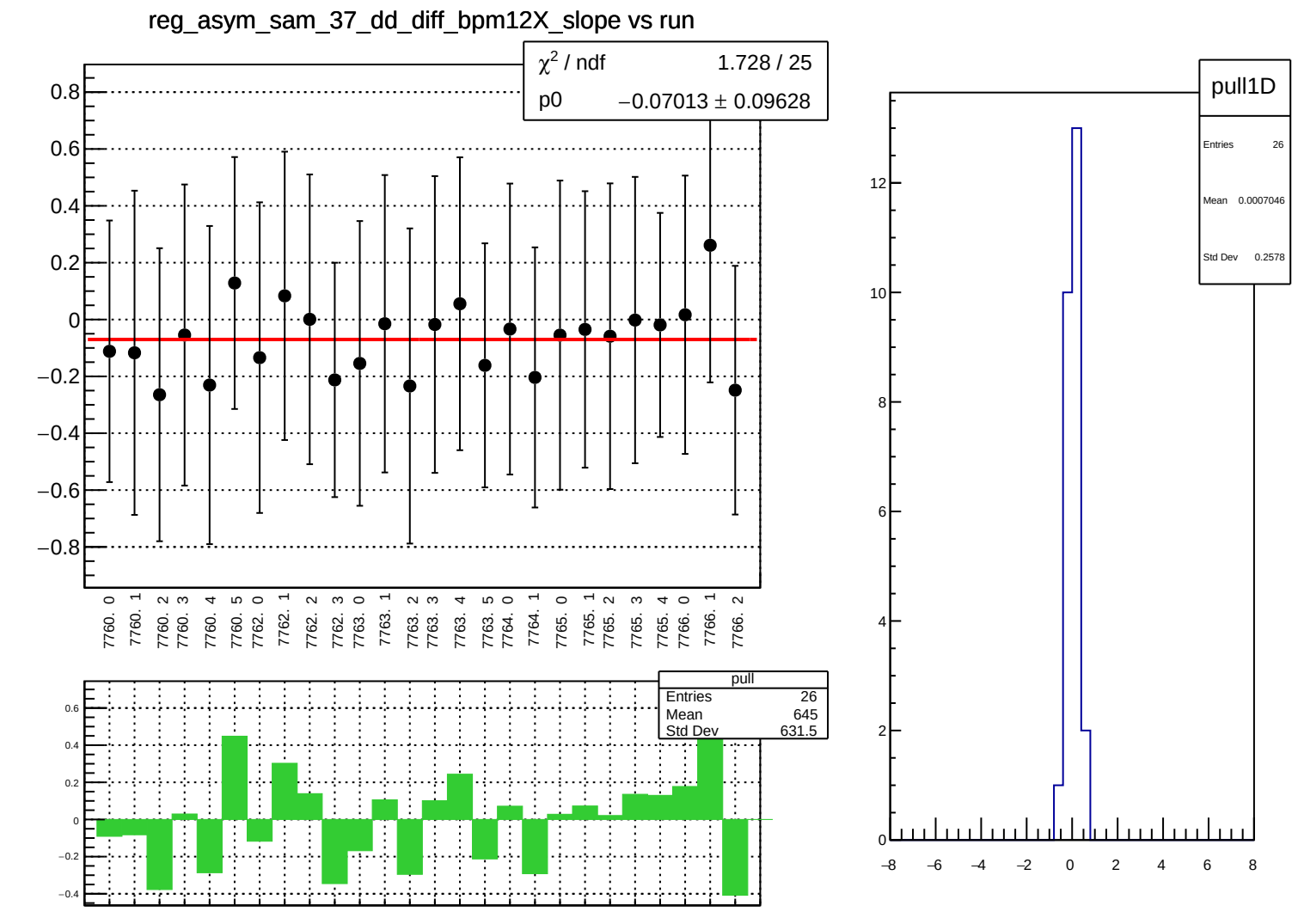
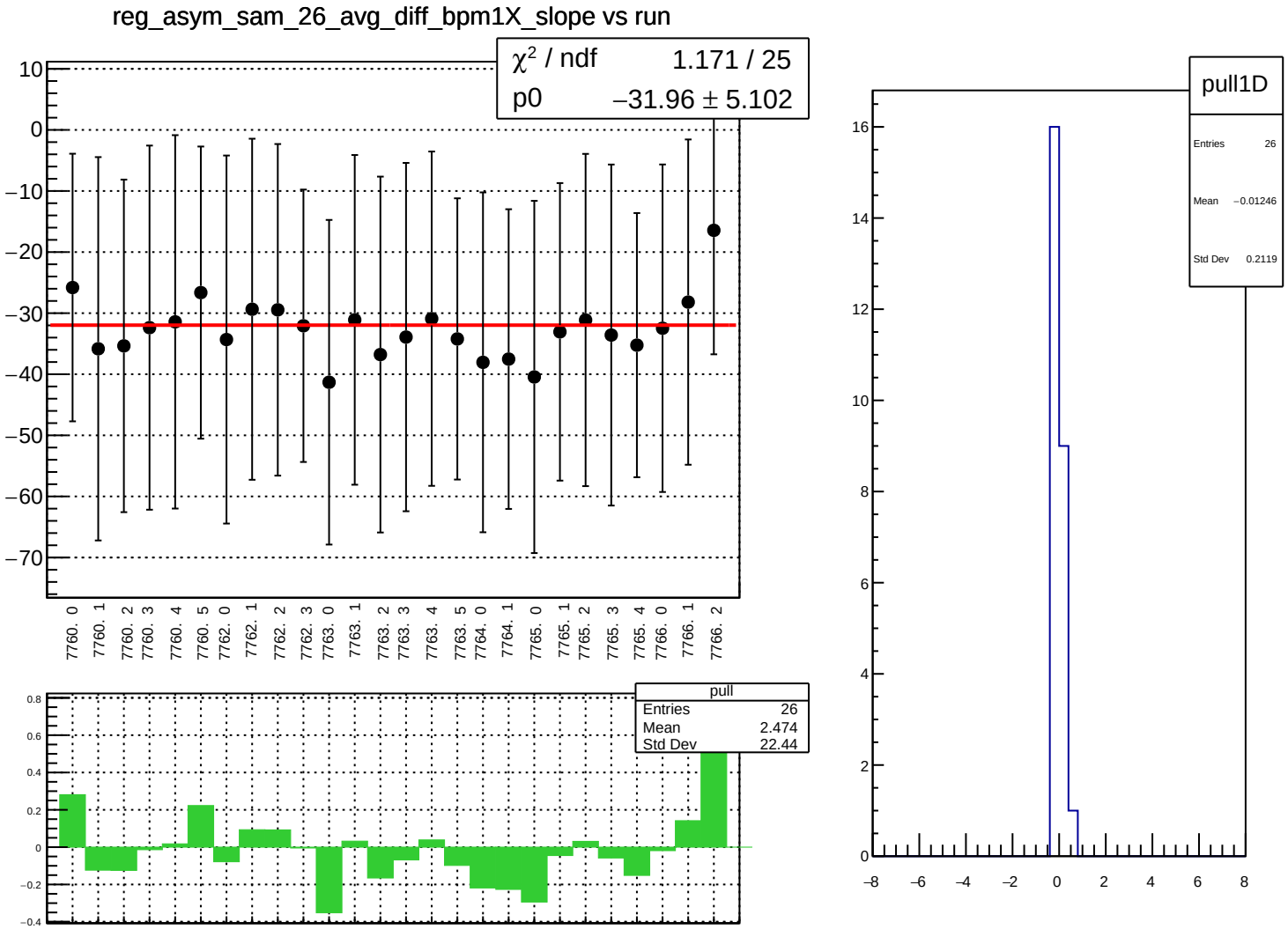
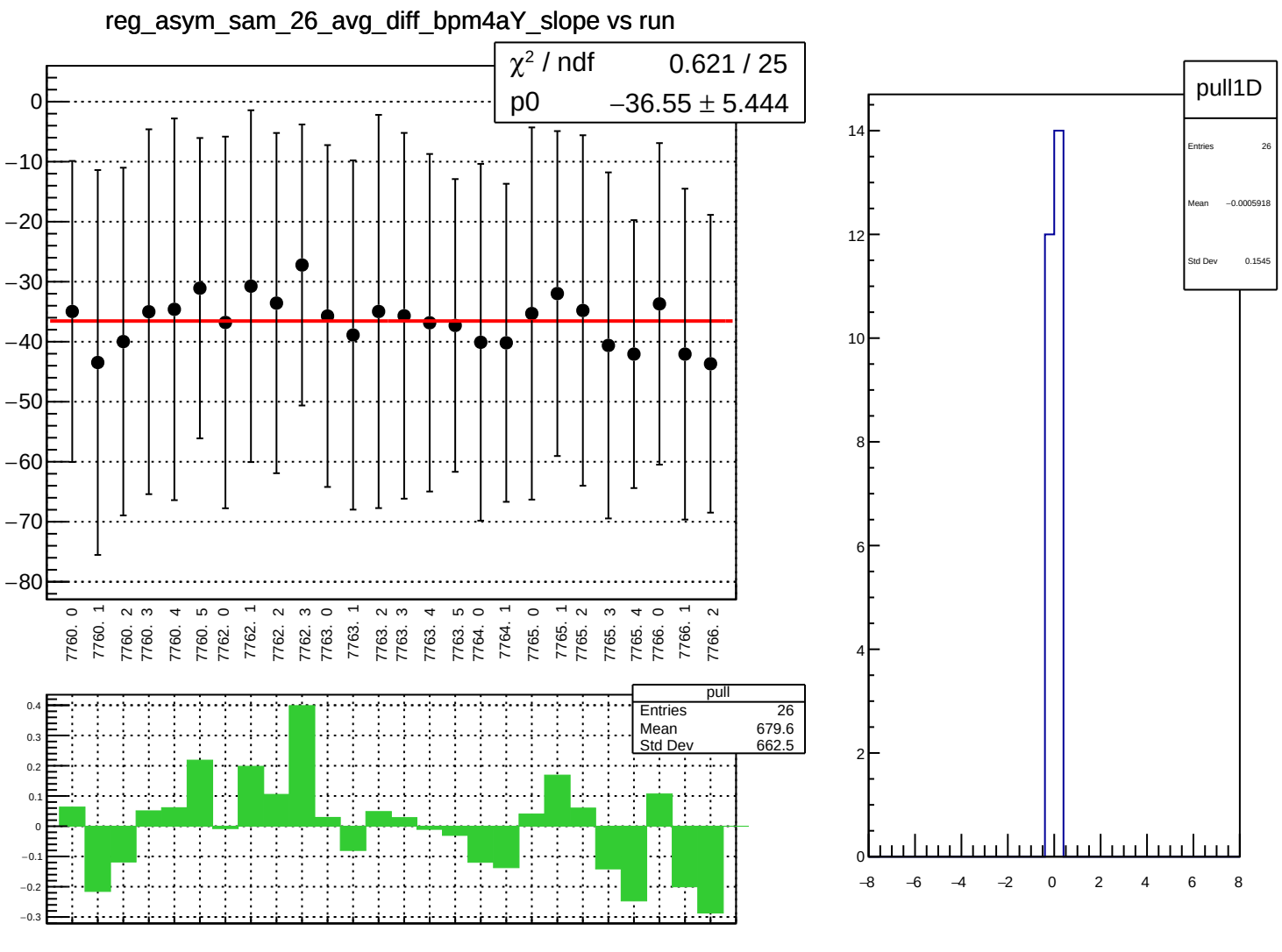
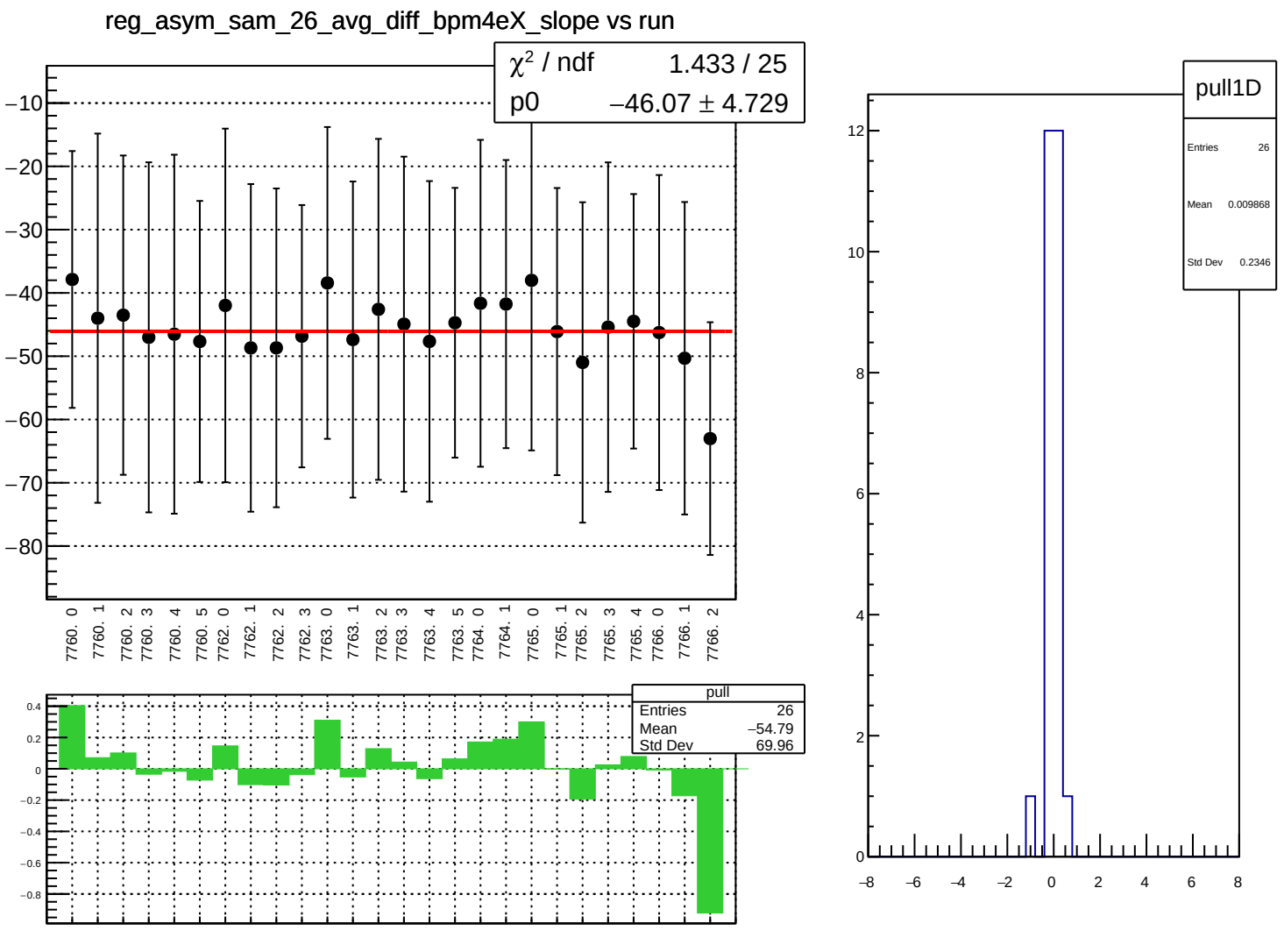
0
2
4
6
8

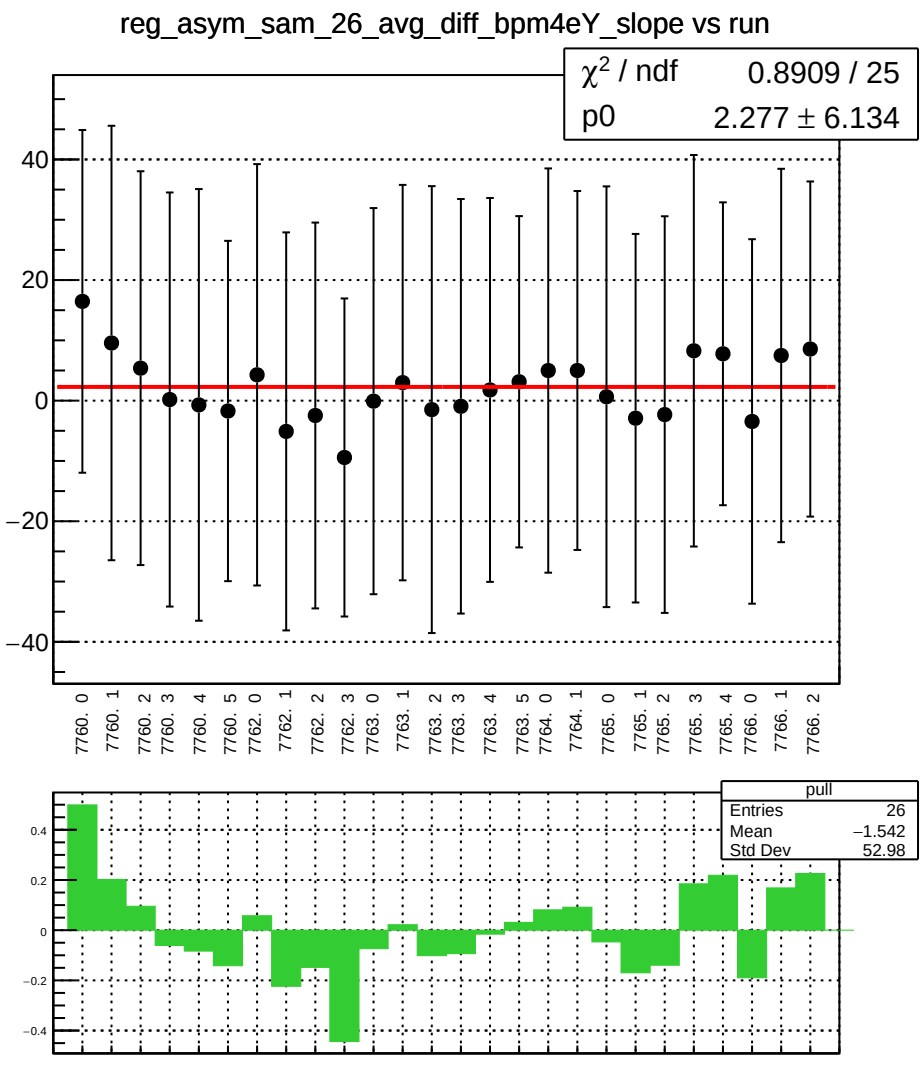

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.037 / 25
p0 18.56 ± 3.512
40
30
20
10
0
−10
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 71.74
Std Dev 45.76
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 26
Mean 0.002175
Std Dev 0.1997
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

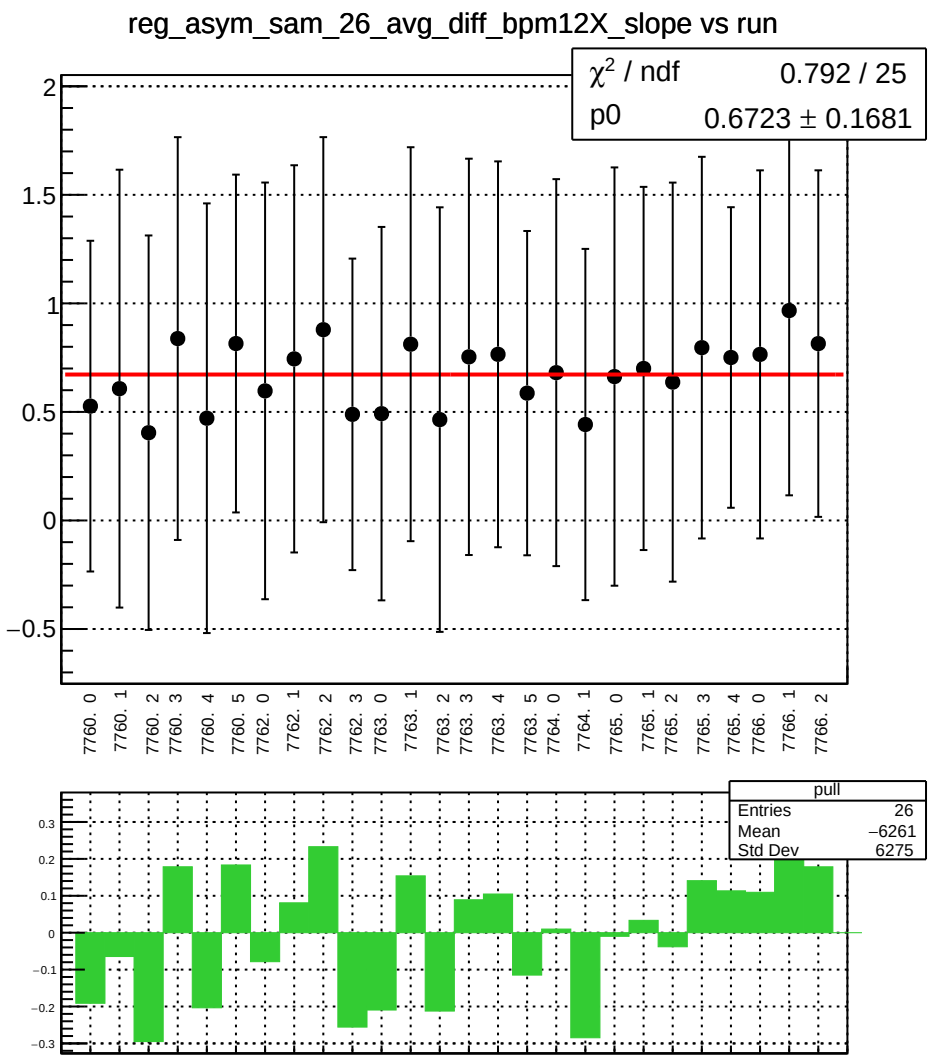

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 1.728 / 25
p0 −0.07013 ± 0.09628
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 645
Std Dev 631.5
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 26
Mean 0.0007046
Std Dev 0.2578
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

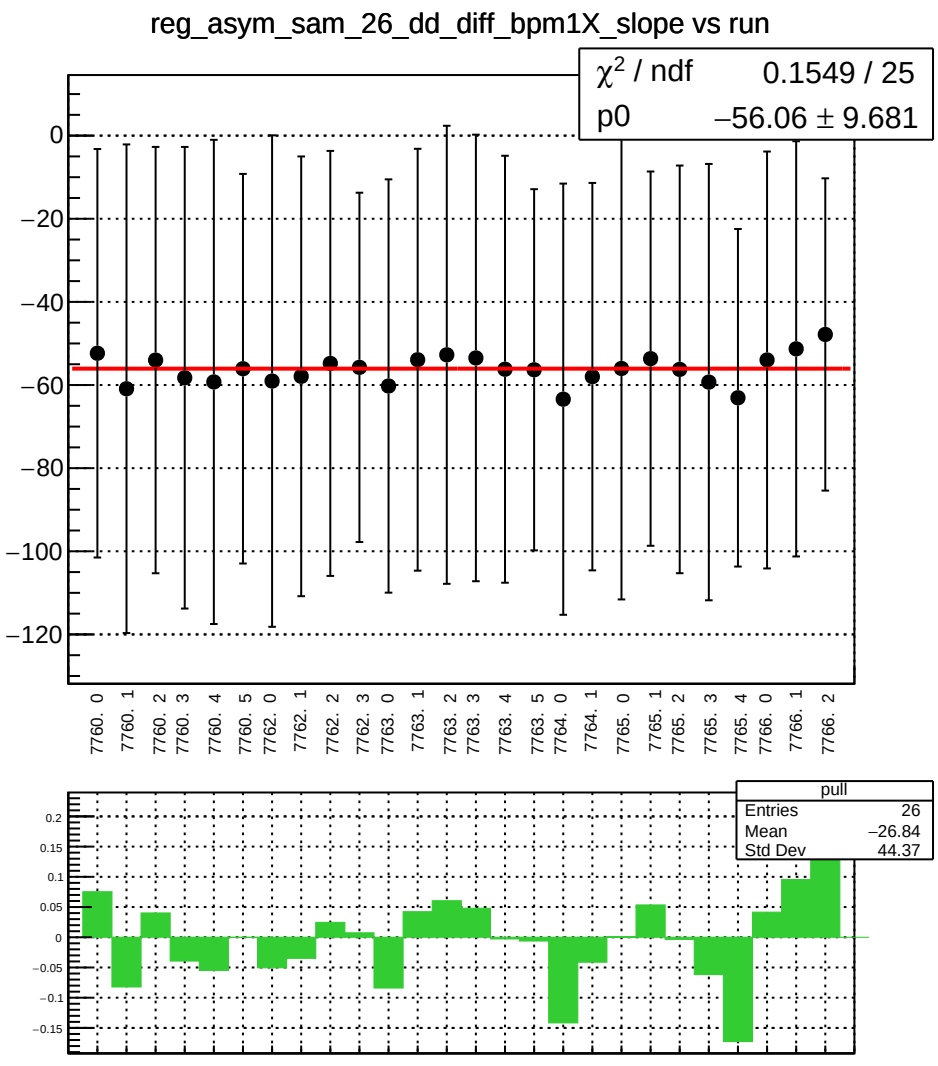

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 1.171 / 25
p0 −31.96 ± 5.102
pull
Entries 26
Mean 2.474
Std Dev 22.44
pull1D
Entries 26
Mean −0.01246
Std Dev 0.2119

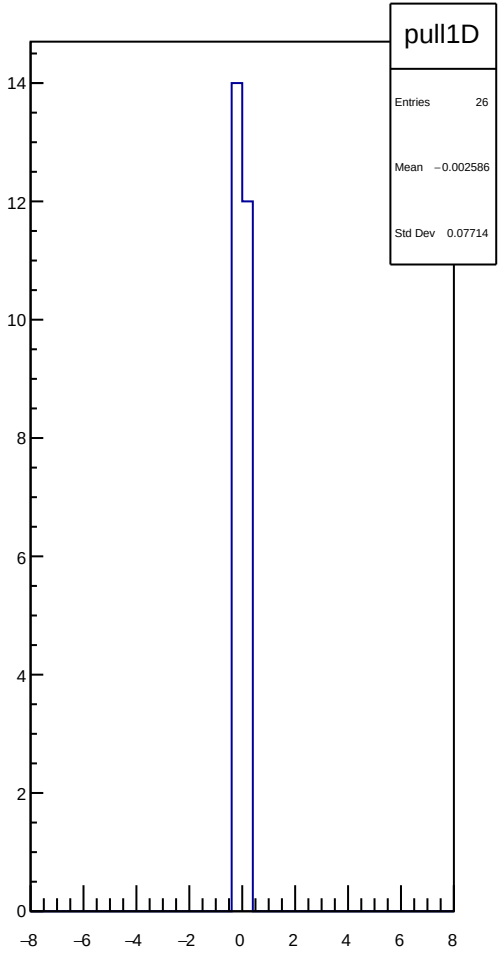

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.621 / 25
p0 −36.55 ± 5.444
0
−10
−20
−30
−40
−50
−60
−70
−80
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 679.6
Std Dev 662.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 26
Mean −0.0005918
Std Dev 0.1545
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

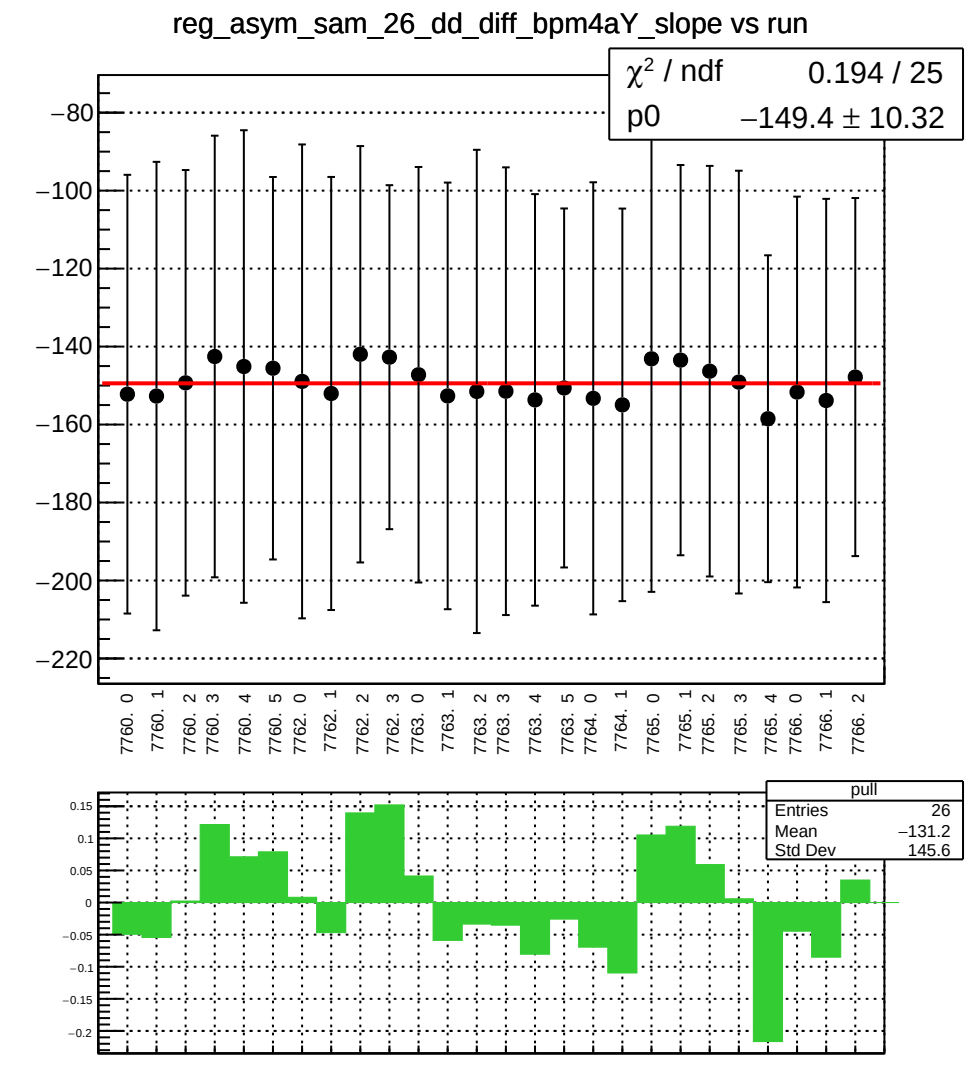

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.433 / 25
p0 −46.07 ± 4.729
−10
−20
−30
−40
−50
−60
−70
−80
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −54.79
Std Dev 69.96
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 26
Mean 0.009868
Std Dev 0.2346
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

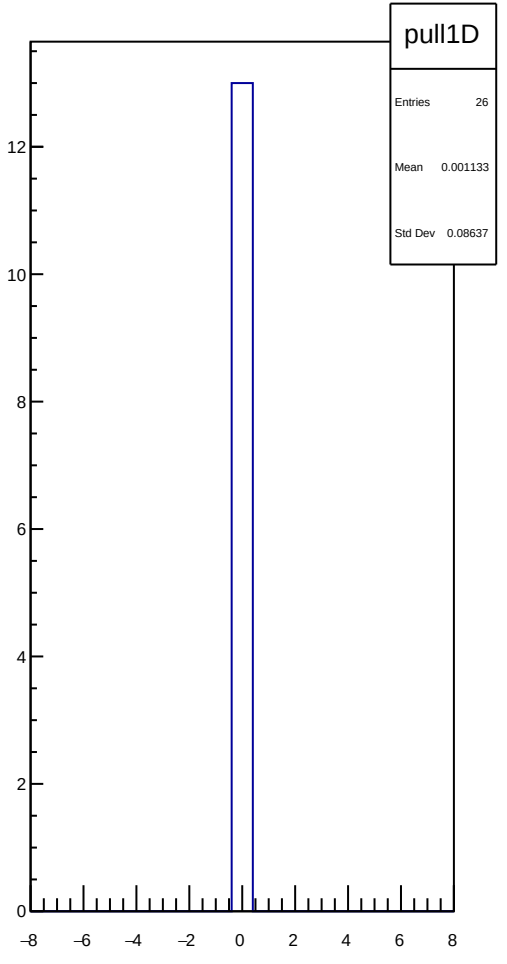

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.8909 / 25
p0 2.277 ± 6.134
40
20
0
−20
−40
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −1.542
Std Dev 52.98
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 26
Mean −0.002058
Std Dev 0.1851
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

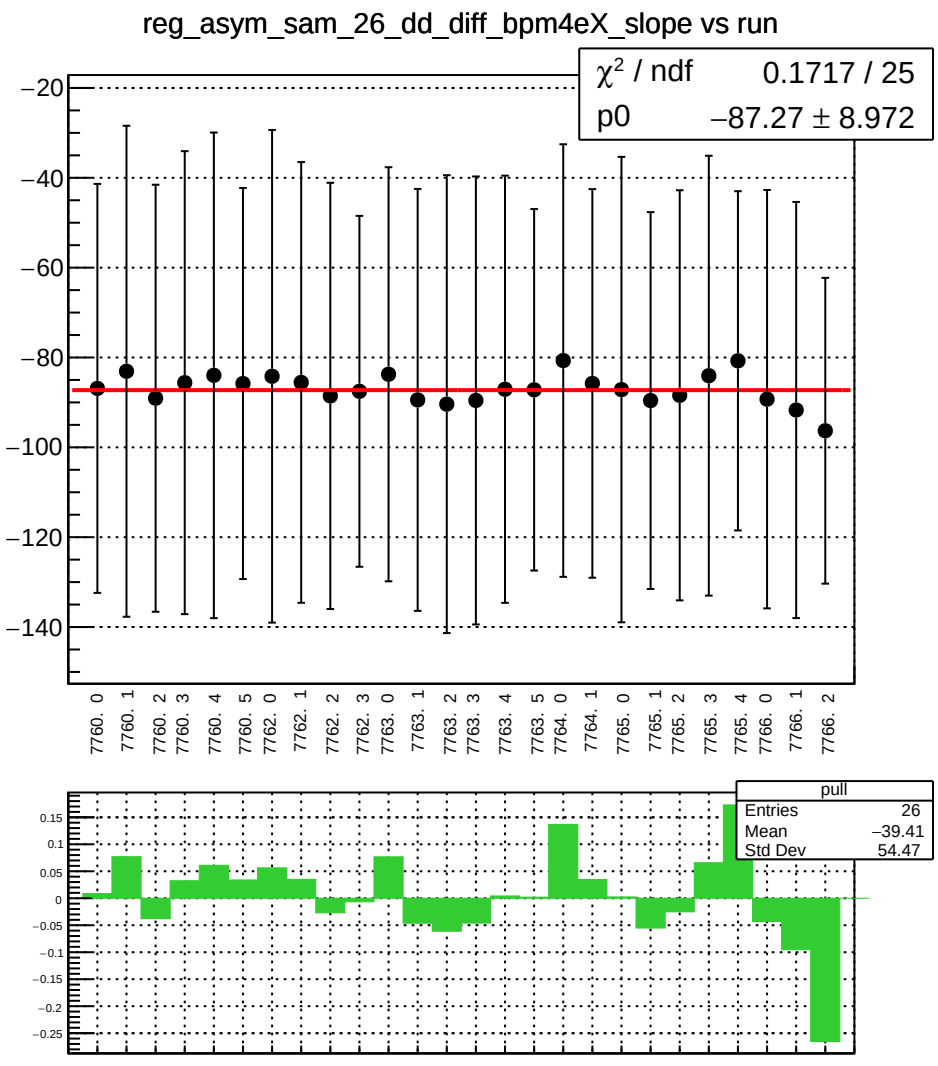

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 0.792 / 25
p0 0.6723 ± 0.1681
2
1.5
1
0.5
0
−0.5
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −6261
Std Dev 6275
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 26
Mean −8.201e−05
Std Dev 0.1745
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

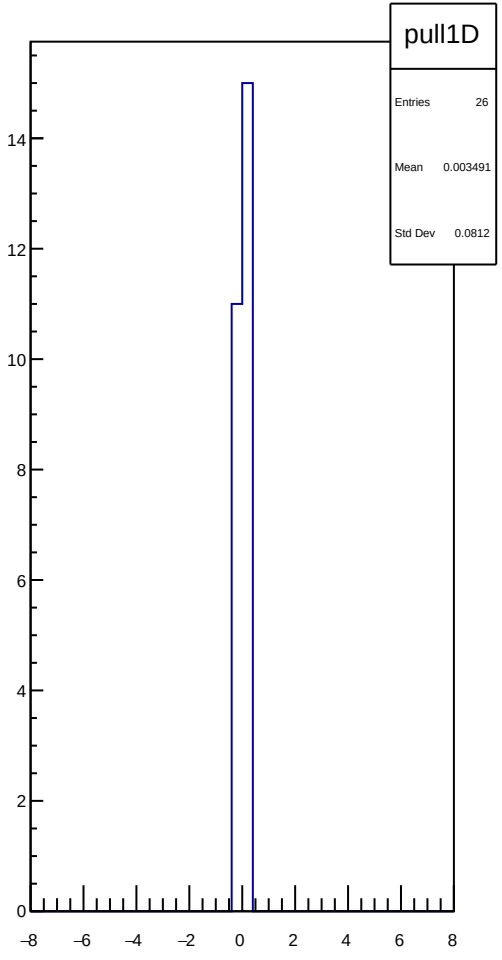

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 0.1549 / 25
p0 −56.06 ± 9.681
0
−20
−40
−60
−80
−100
−120
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −26.84
Std Dev 44.37
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15

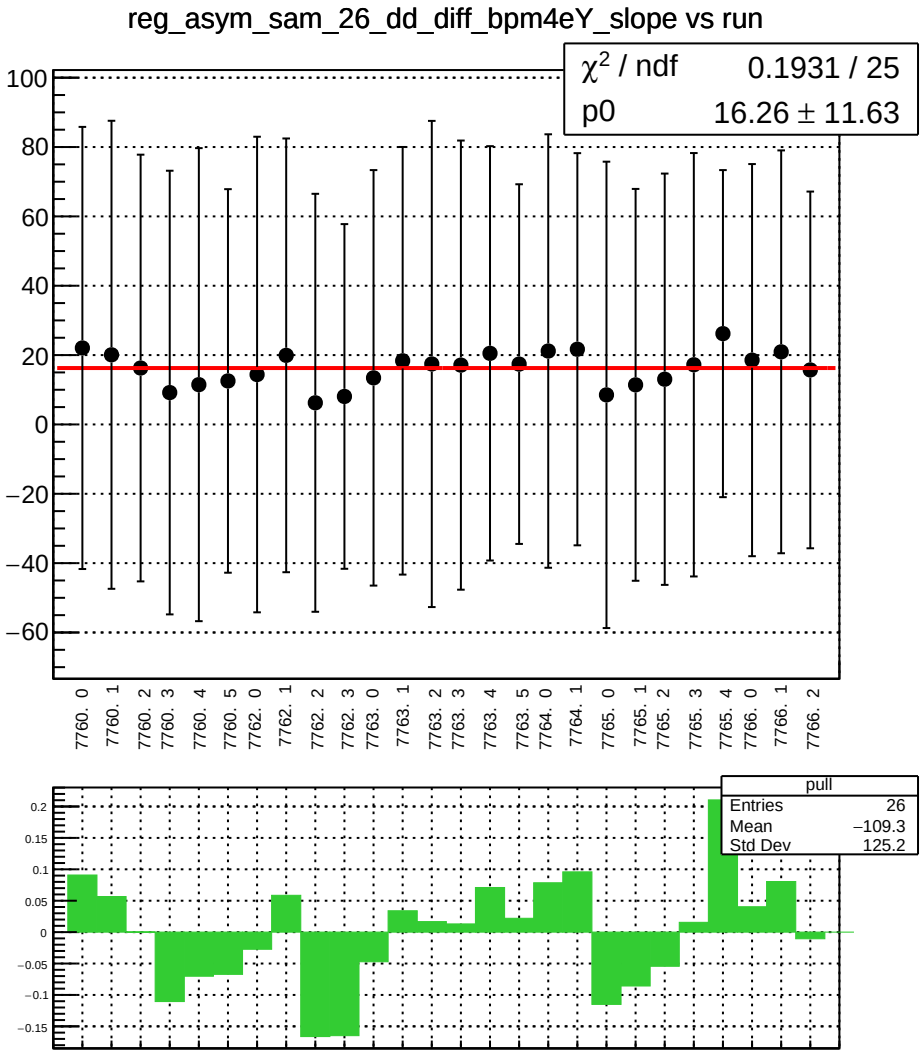

pull1D
Entries 26
Mean −0.002586
Std Dev 0.07714
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

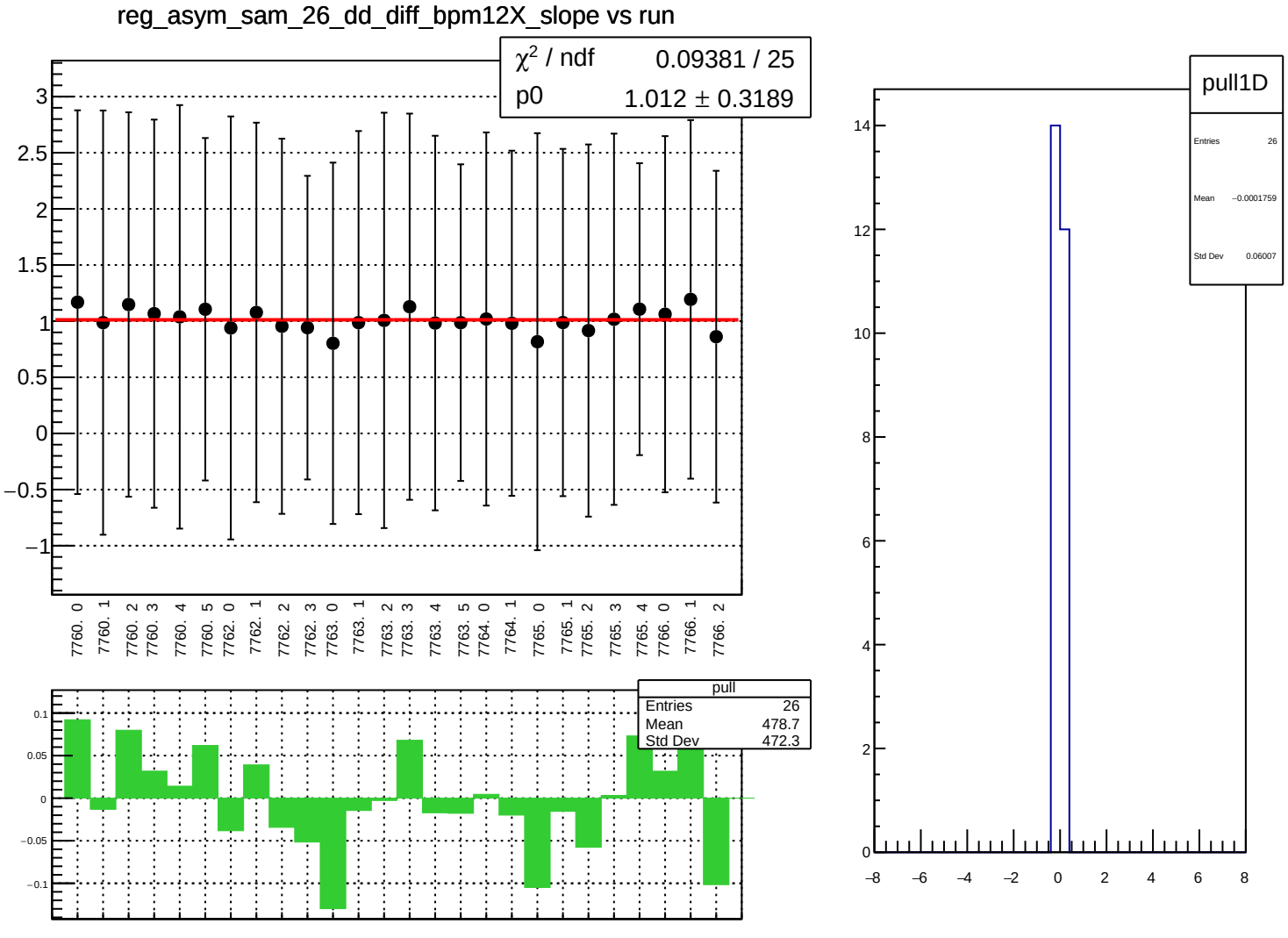

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.194 / 25
p0 −149.4 ± 10.32
−80
−100
−120
−140
−160
−180
−200
−220
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −131.2
Std Dev 145.6
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2

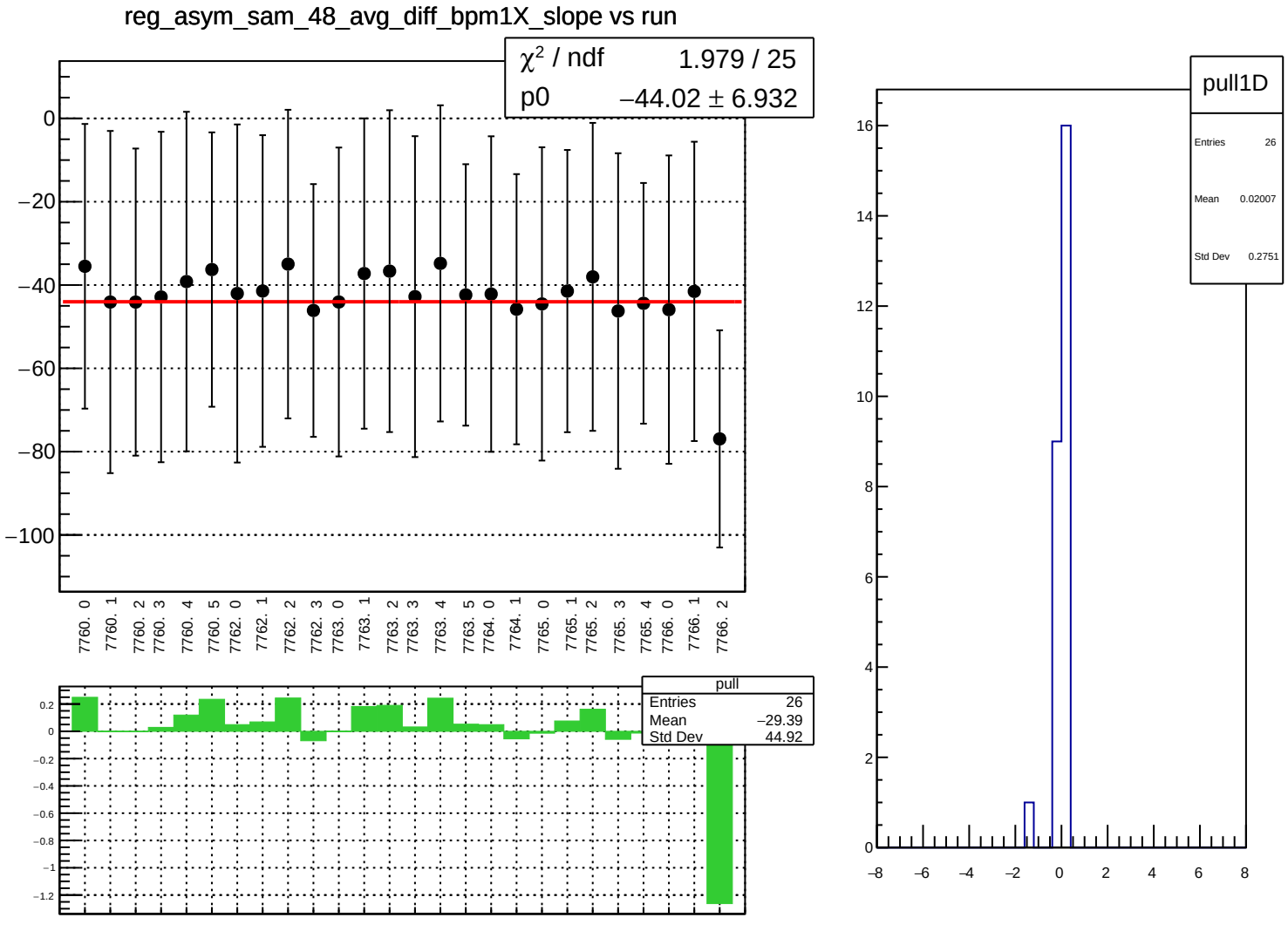

pull1D
Entries 26
Mean 0.001133
Std Dev 0.08637
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

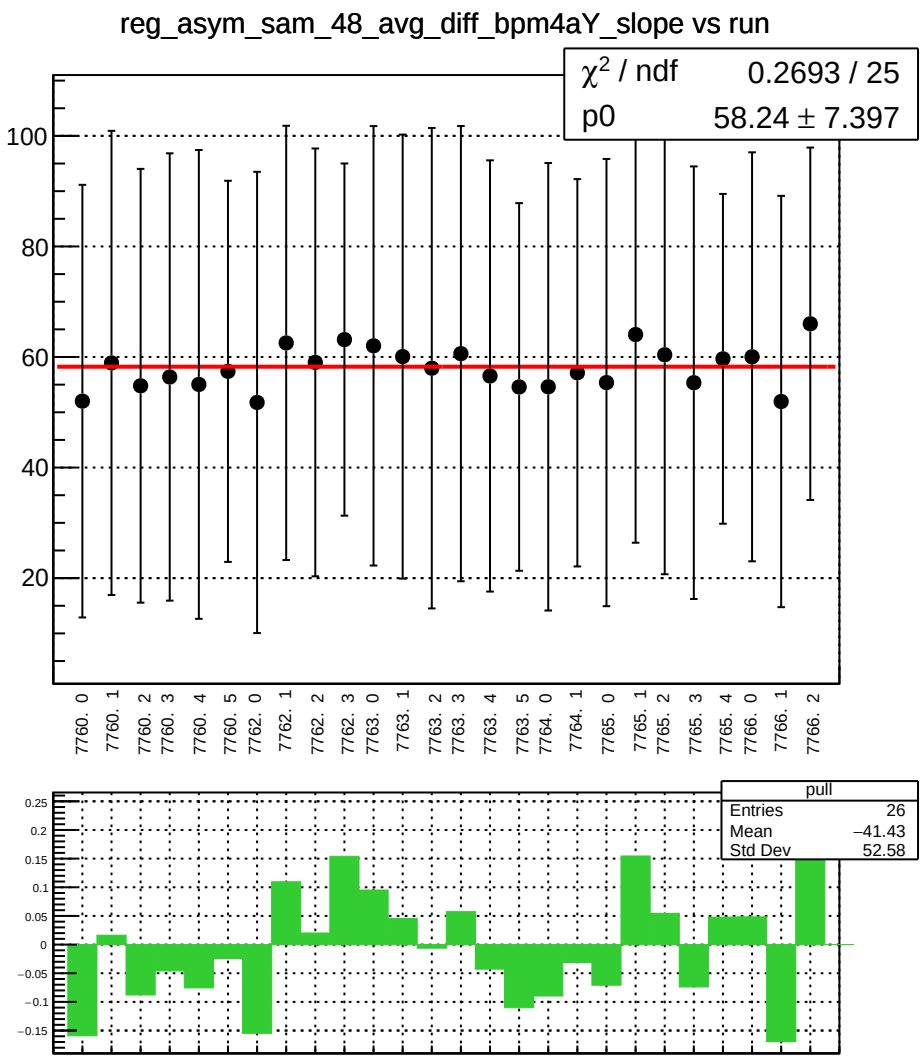

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.1717 / 25
p0 −87.27 ± 8.972
−20
−40
−60
−80
−100
−120
−140
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −39.41
Std Dev 54.47
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
−0.25

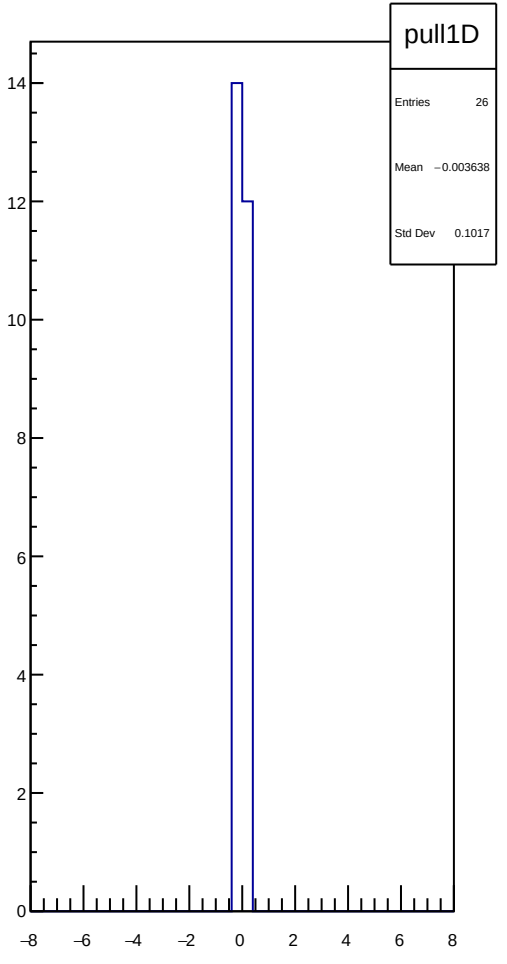

pull1D
Entries 26
Mean 0.003491
Std Dev 0.0812
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

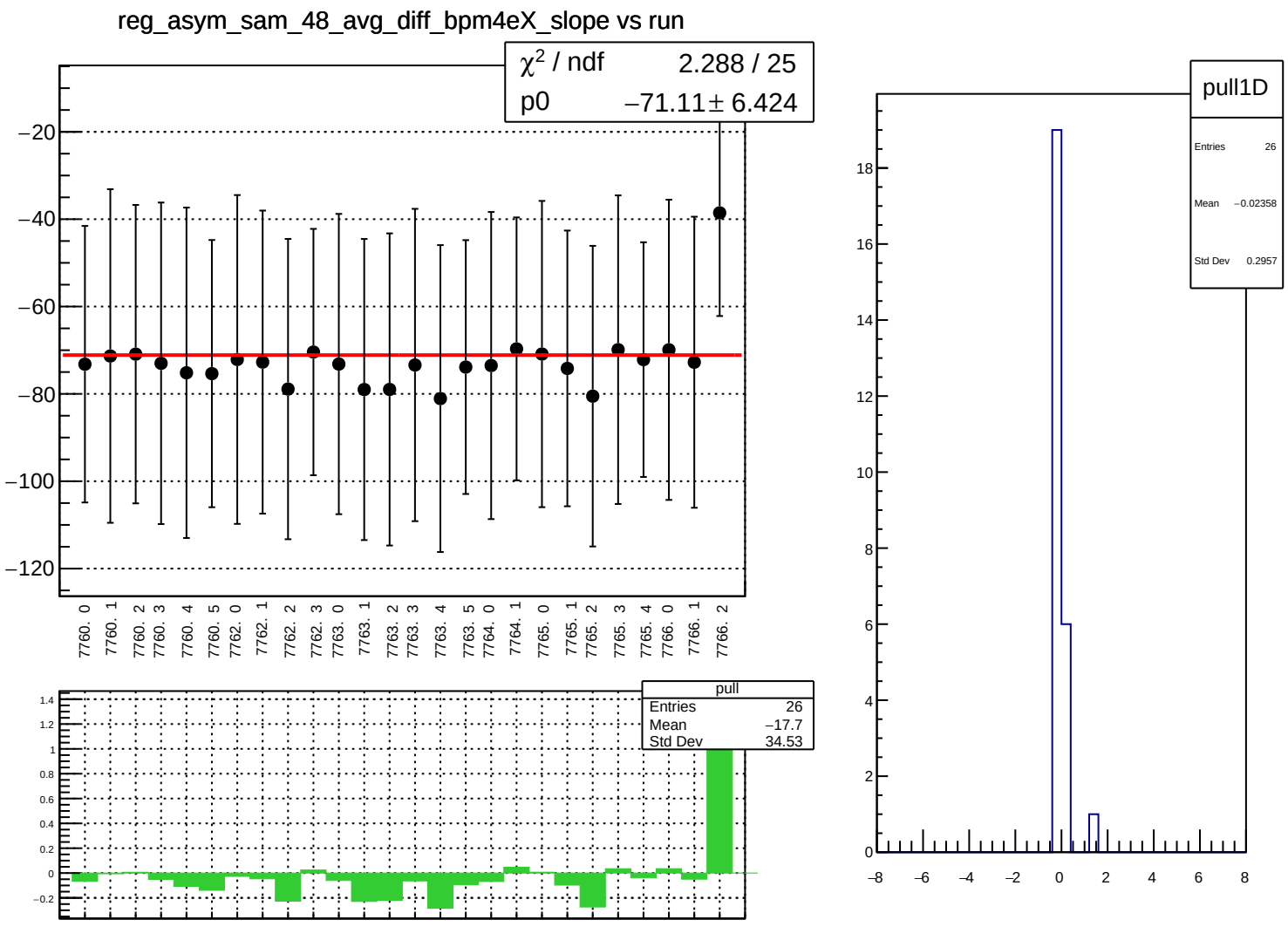

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.1931 / 25
p0 16.26 ± 11.63
100
80
60
40
20
0
−20
−40
−60
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −109.3
Std Dev 125.2
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull1D
Entries 26
Mean −0.001329
Std Dev 0.08618
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 0.09381 / 25
p0 1.012 ± 0.3189
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
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 478.7
Std Dev 472.3
0.1
0.05
0
−0.05
−0.1
pull1D
Entries 26
Mean −0.0001759
Std Dev 0.06007
14
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 1.979 / 25
p0 −44.02 ± 6.932
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
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −29.39
Std Dev 44.92
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 26
Mean 0.02007
Std Dev 0.2751
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 0.2693 / 25
p0 58.24 ± 7.397
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
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −41.43
Std Dev 52.58
0.25
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15


pull1D
Entries 26
Mean −0.003638
Std Dev 0.1017
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 2.288 / 25
p0 −71.11 ± 6.424
−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
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −17.7
Std Dev 34.53
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
pull1D
Entries 26
Mean −0.02358
Std Dev 0.2957
18
16
14
12
10
8
6
4
2
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−8
−6
−4
−2
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2
4
6
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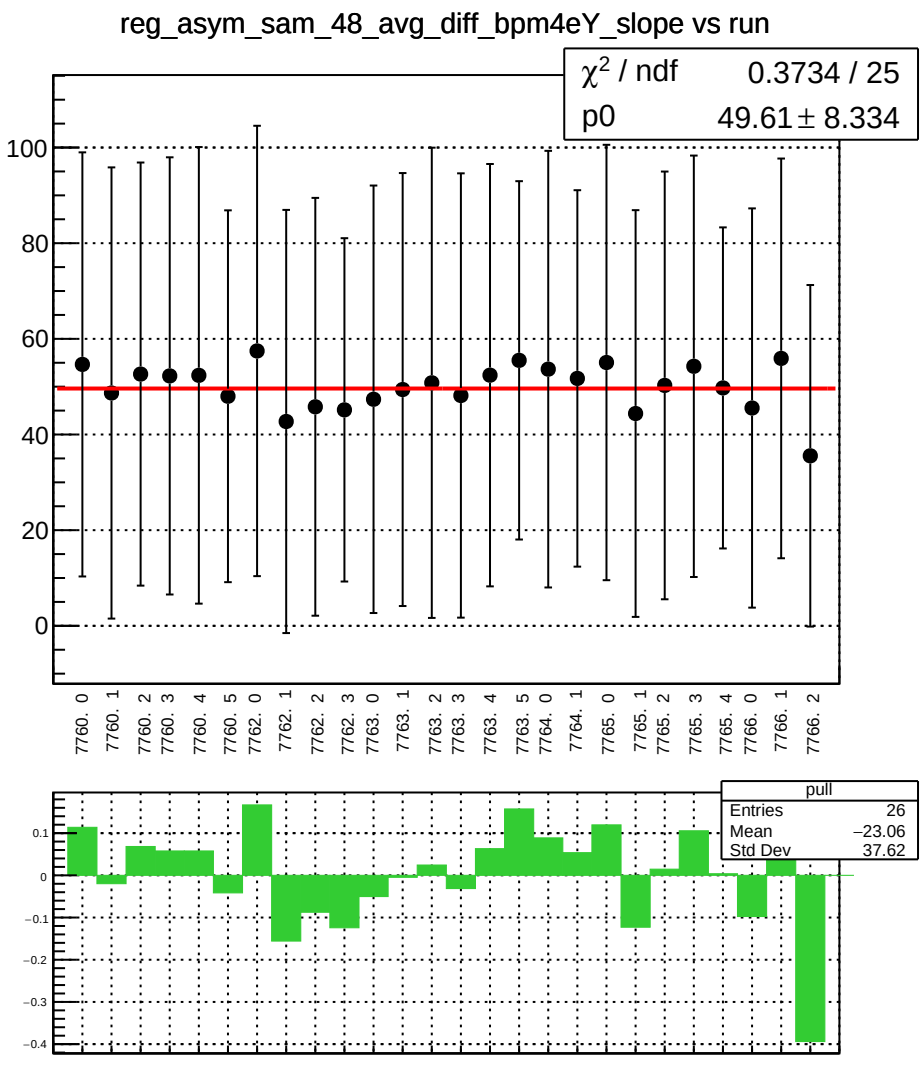
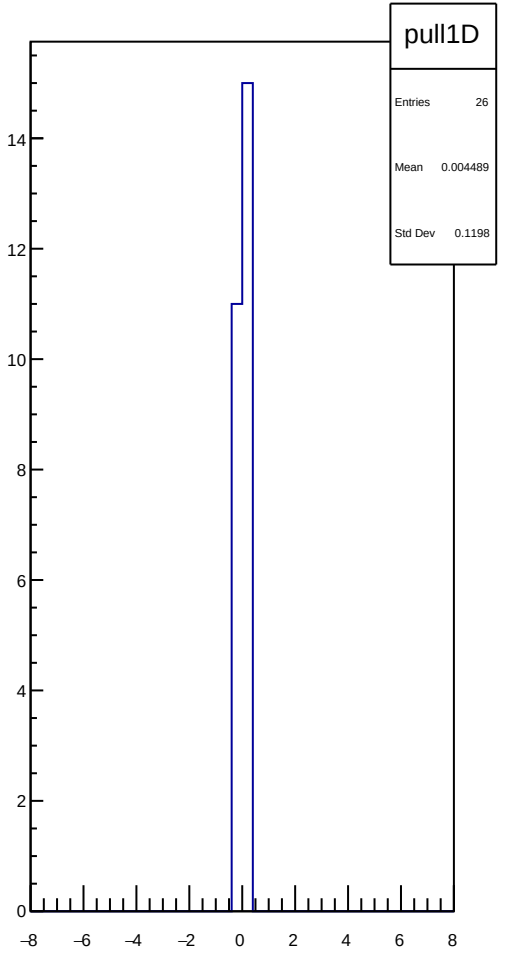
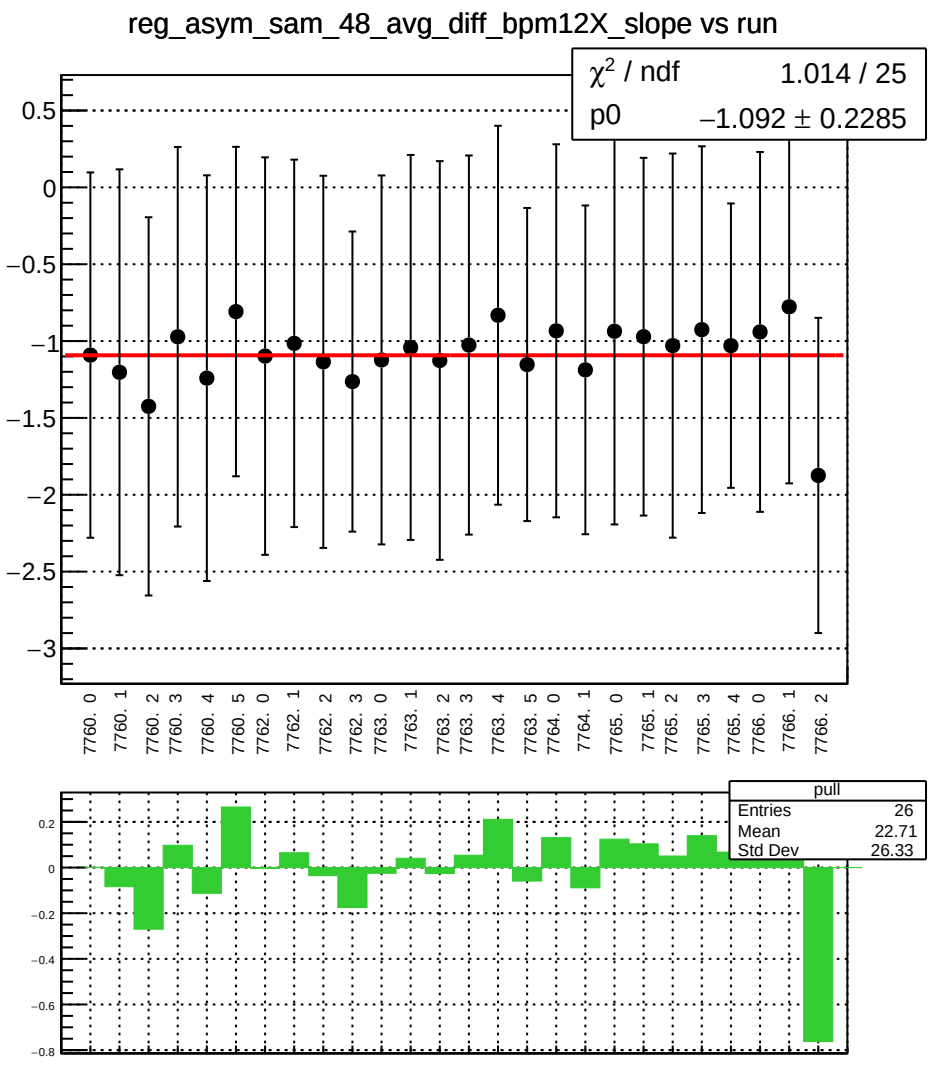
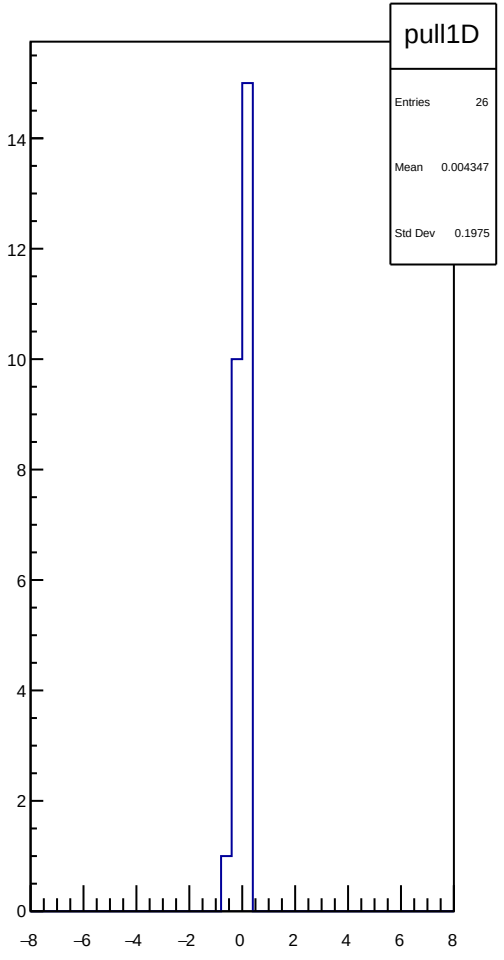
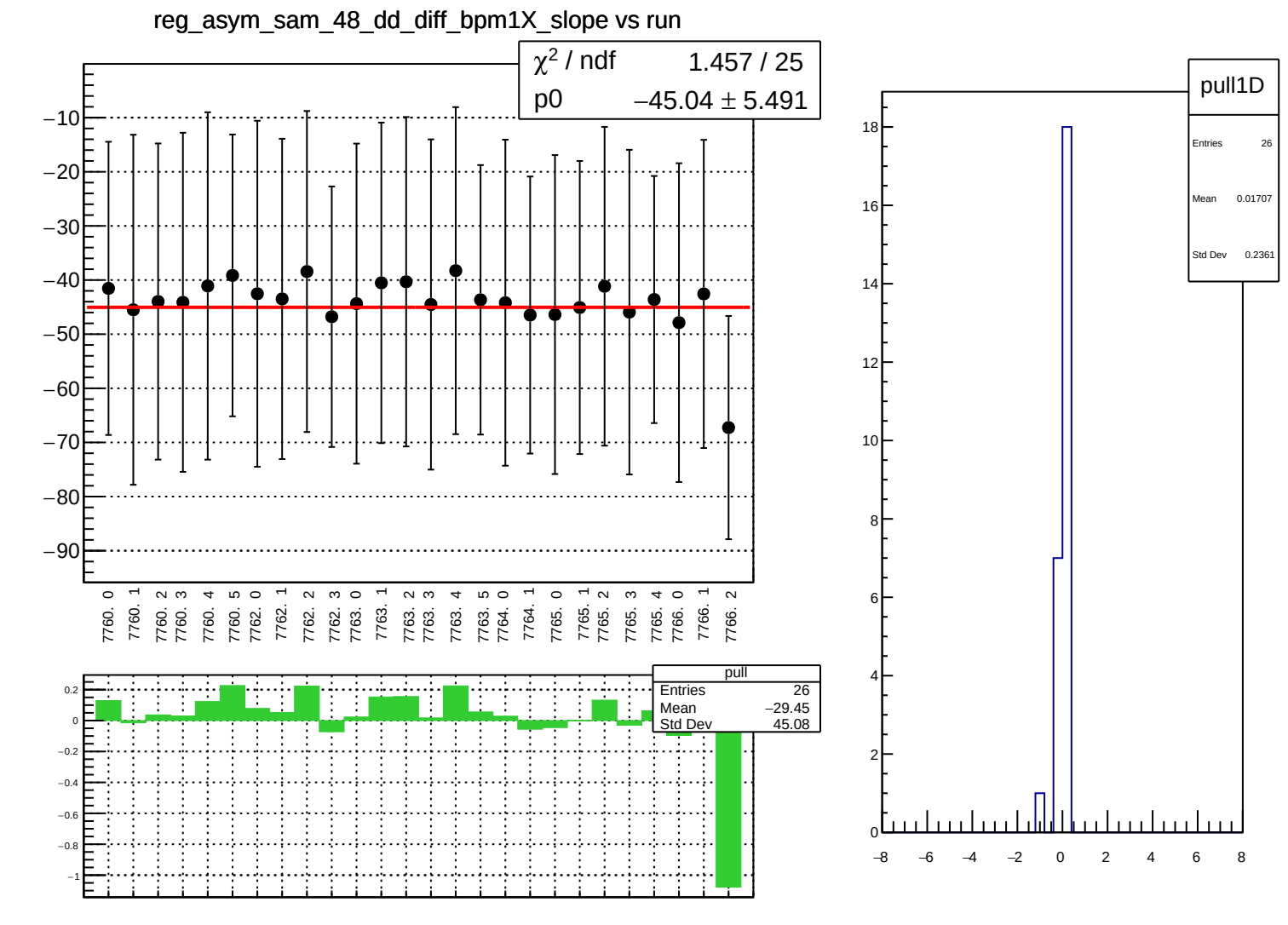
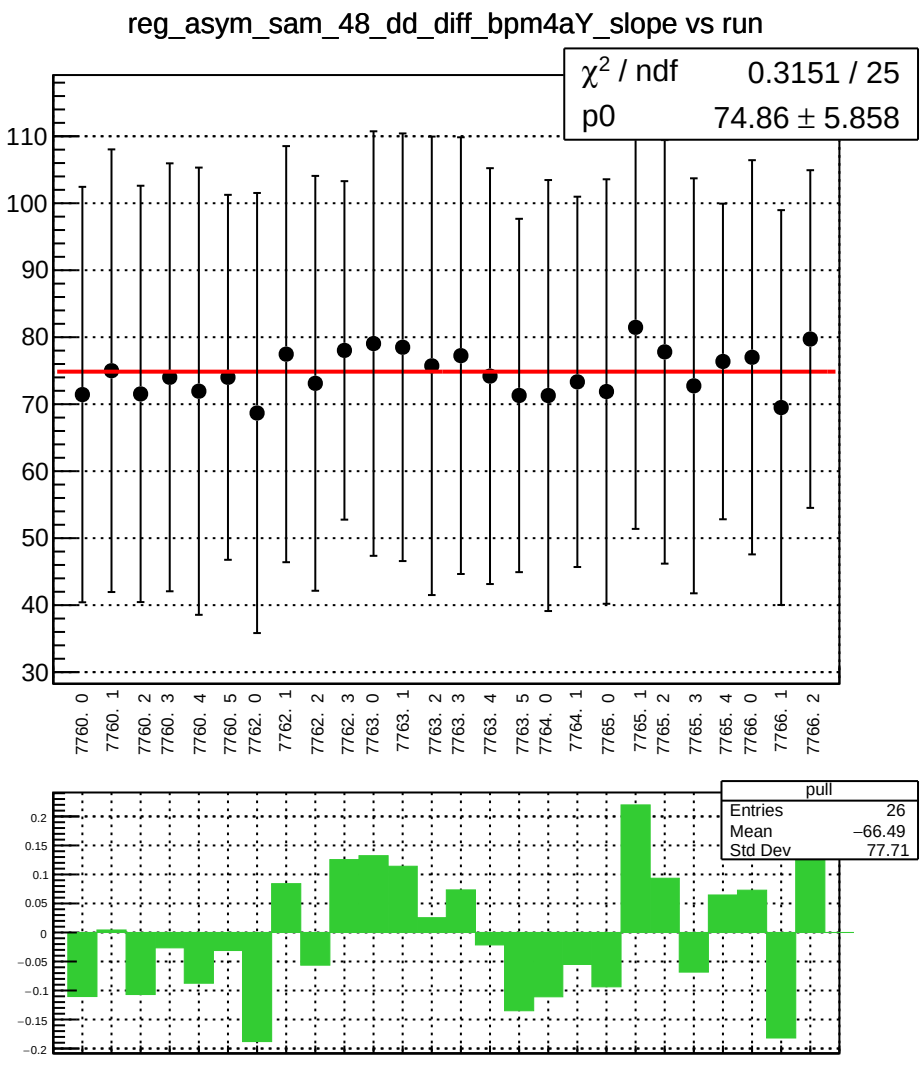

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.3734 / 25
p0 49.61 ± 8.334
100
80
60
40
20
0
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −23.06
Std Dev 37.62
0.1
0
−0.1
−0.2
−0.3
−0.4

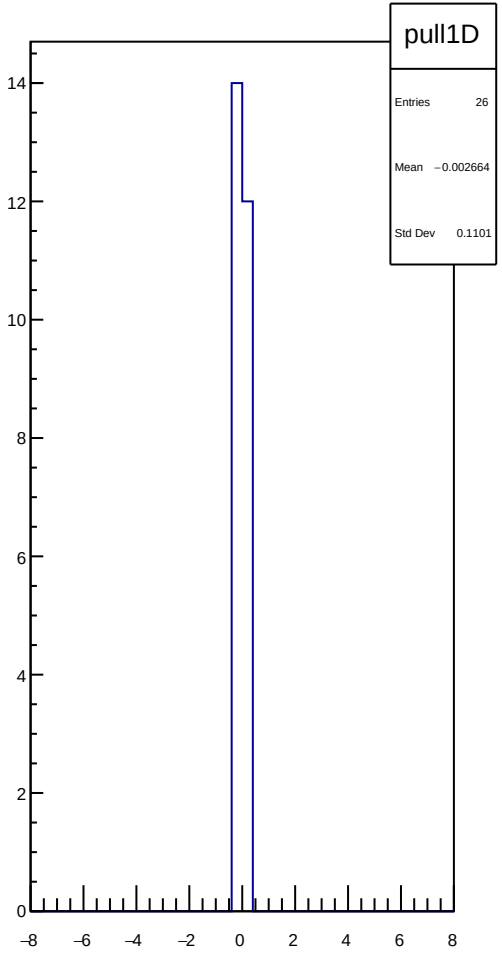

pull1D
Entries 26
Mean 0.004489
Std Dev 0.1198
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

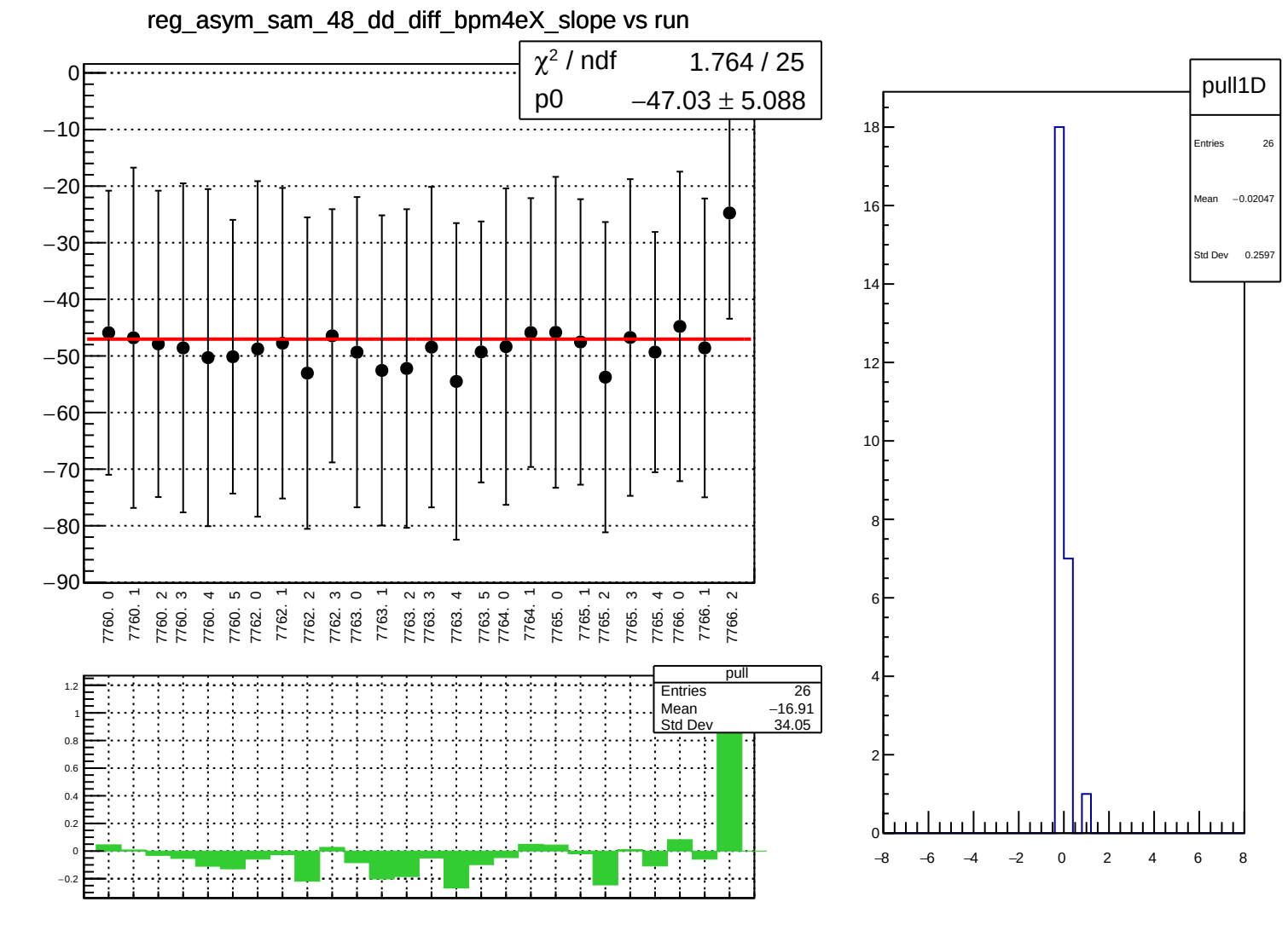

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 1.014 / 25
p0 −1.092 ± 0.2285
pull
Entries 26
Mean 22.71
Std Dev 26.33

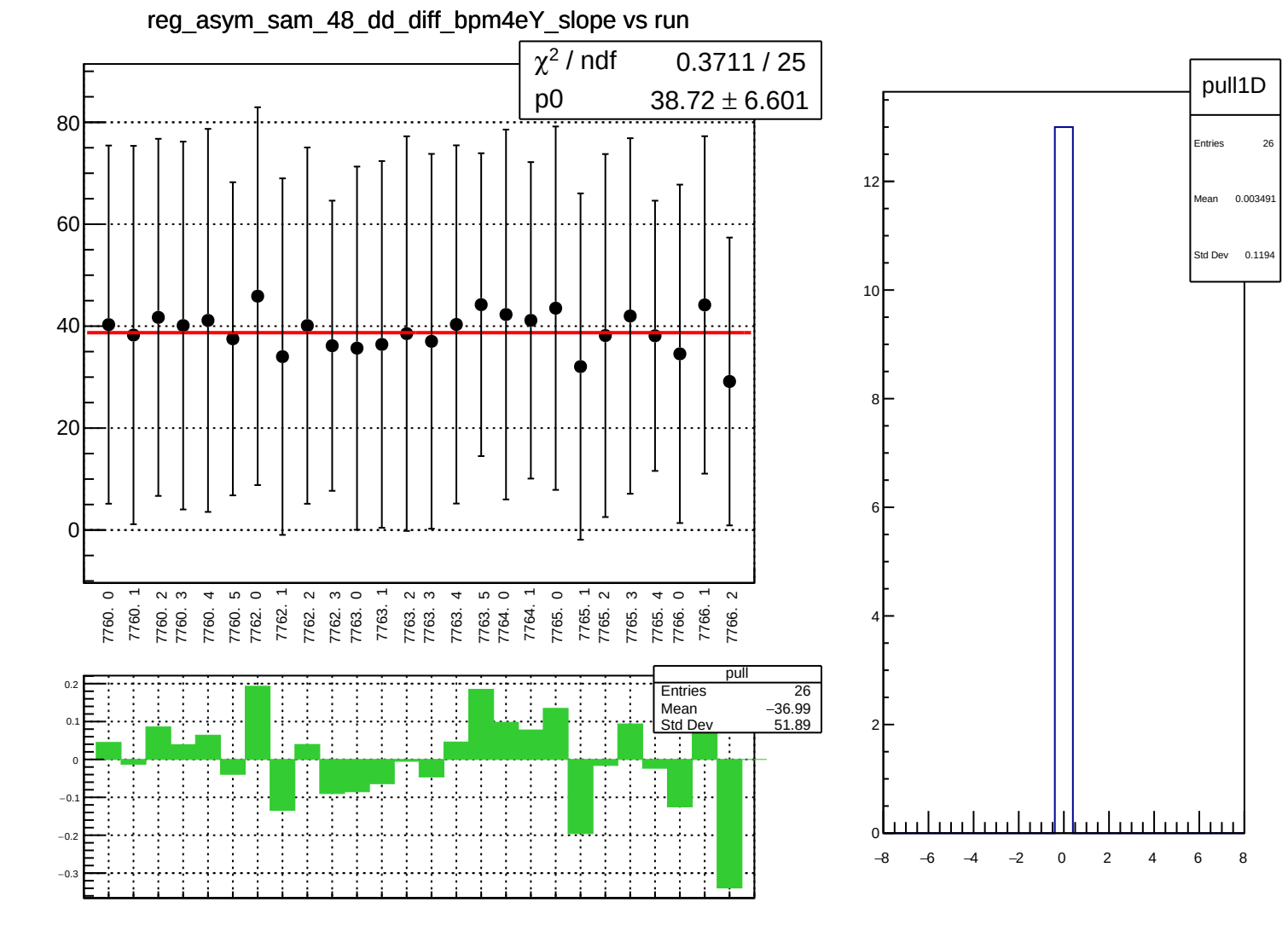

pull1D
Entries 26
Mean 0.004347
Std Dev 0.1975

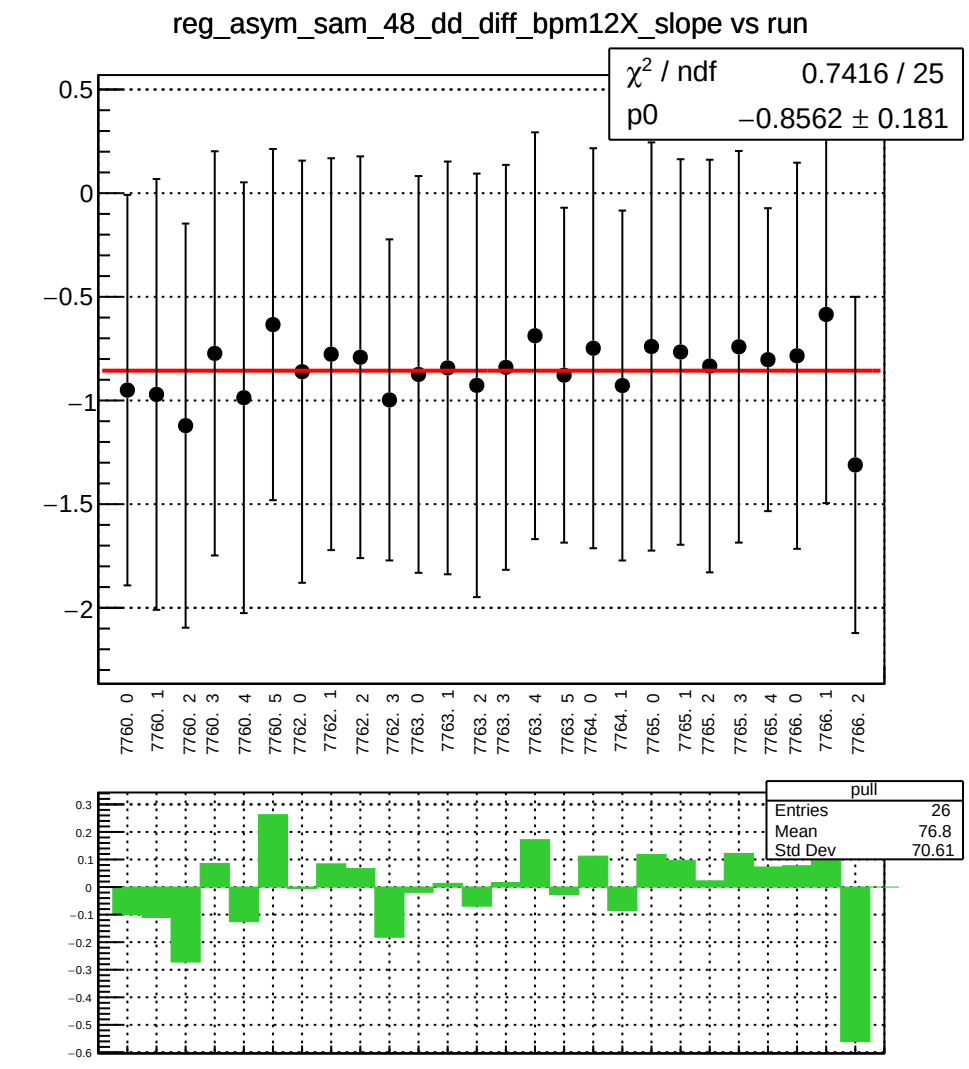

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 1.457 / 25
p0 −45.04 ± 5.491
−10
−20
−30
−40
−50
−60
−70
−80
−90
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −29.45
Std Dev 45.08
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 26
Mean 0.01707
Std Dev 0.2361
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

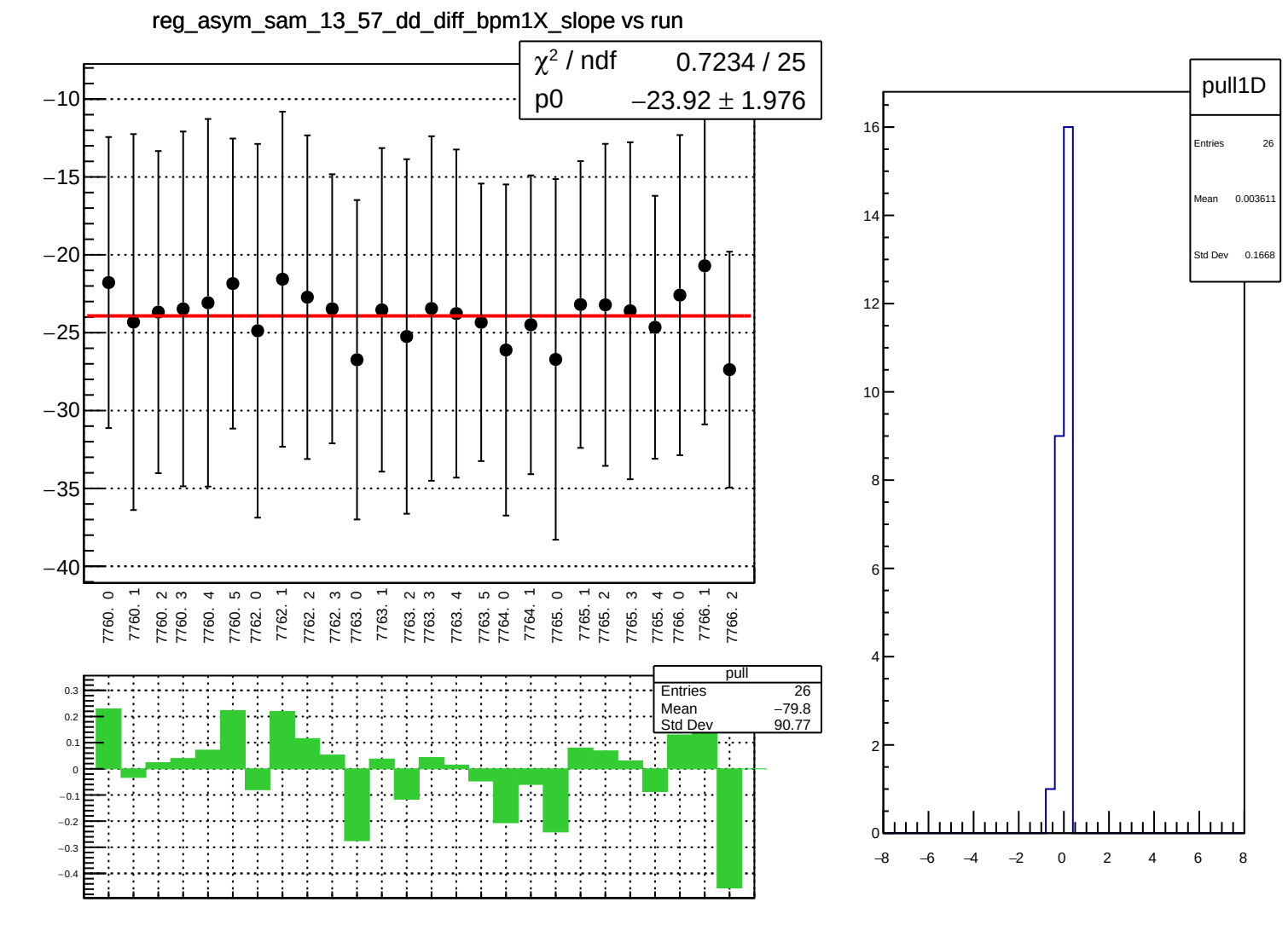

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.3151 / 25
p0 74.86 ± 5.858
110
100
90
80
70
60
50
40
30
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −66.49
Std Dev 77.71
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2

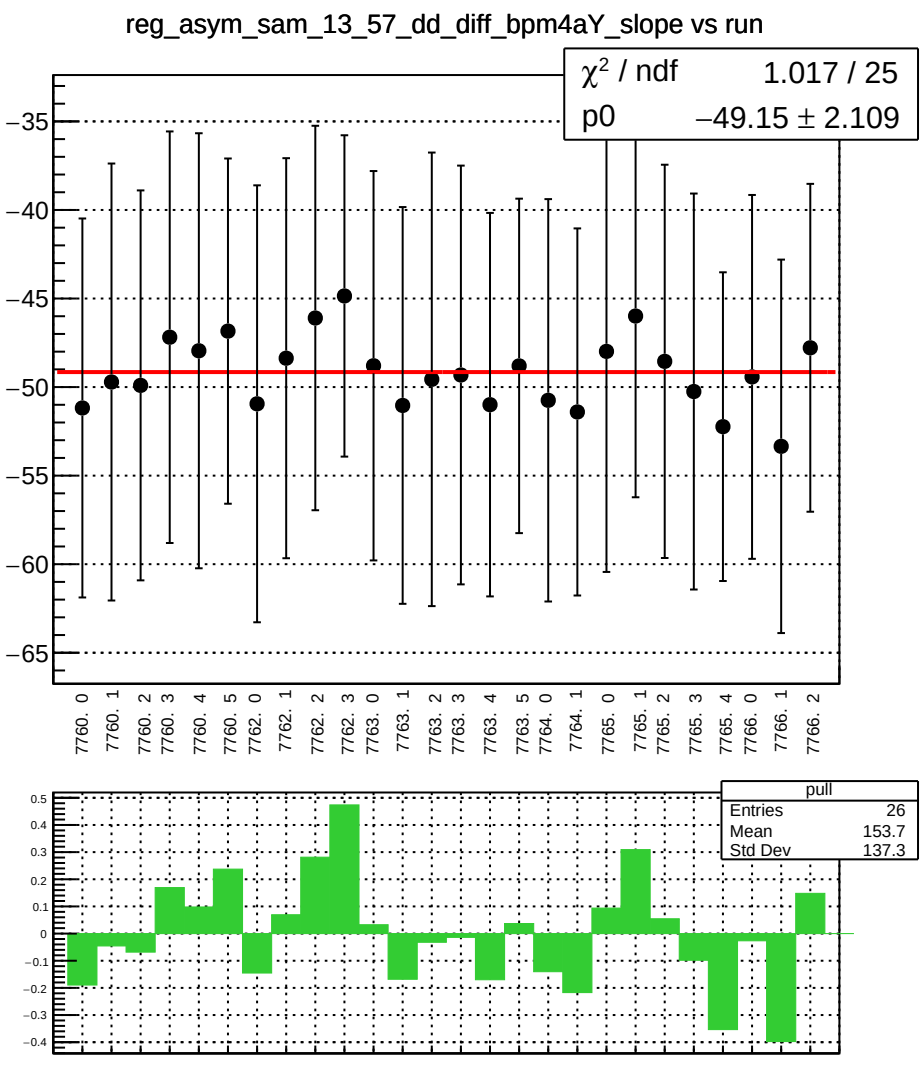

pull1D
Entries 26
Mean −0.002664
Std Dev 0.1101
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

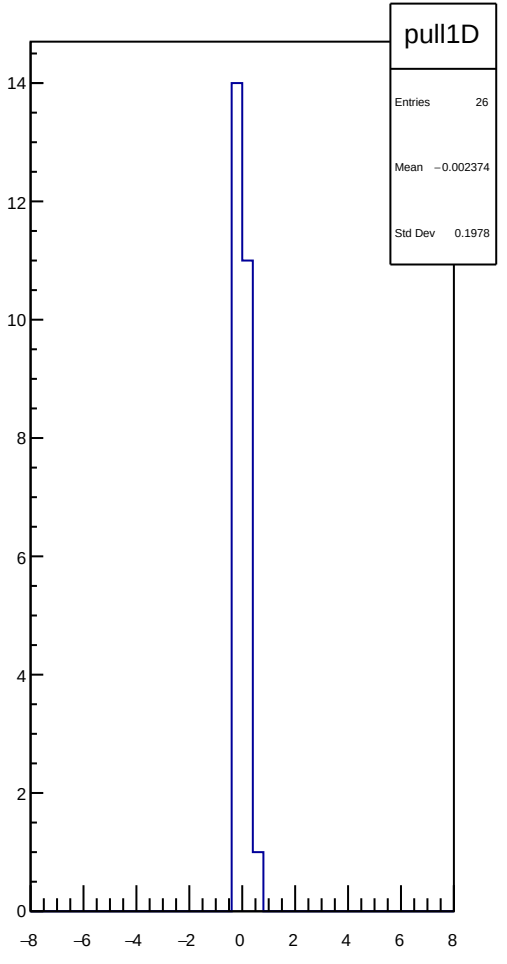

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.764 / 25
p0 −47.03 ± 5.088
0
−10
−20
−30
−40
−50
−60
−70
−80
−90
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −16.91
Std Dev 34.05
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
pull1D
Entries 26
Mean −0.02047
Std Dev 0.2597
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

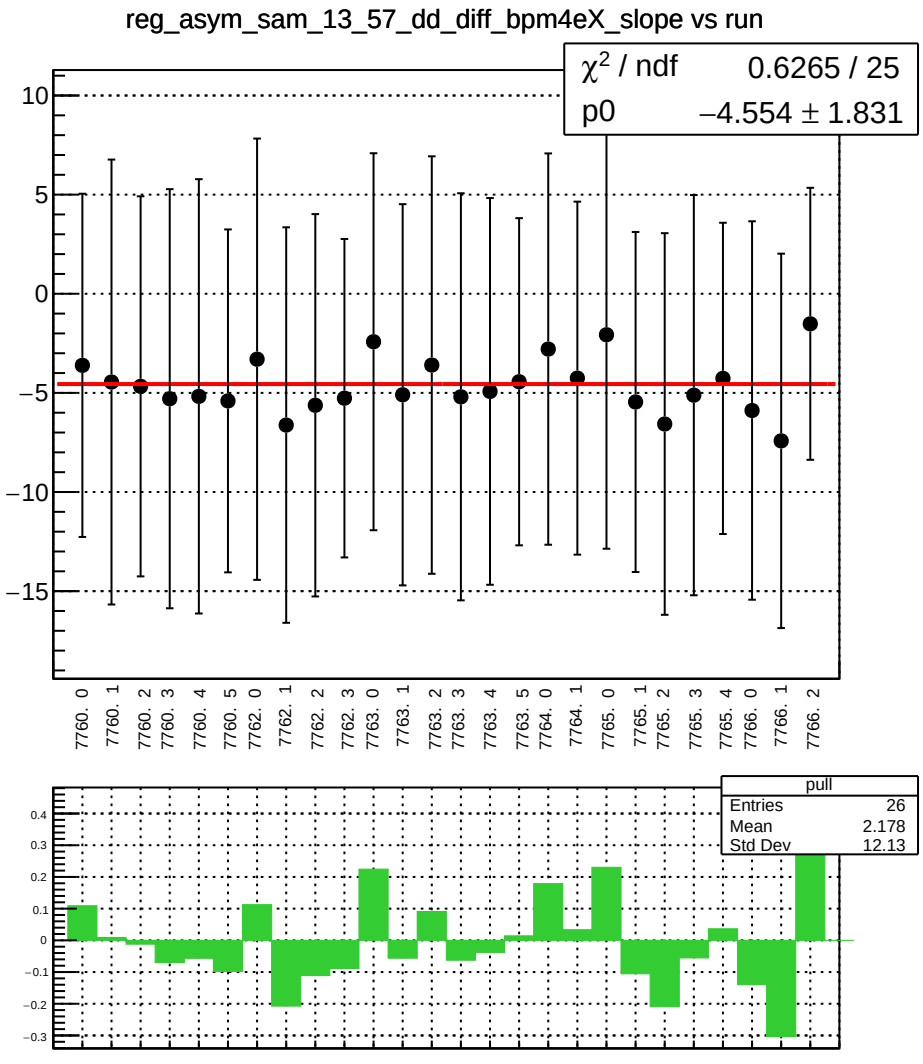

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.3711 / 25
p0 38.72 ± 6.601
80
60
40
20
0
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −36.99
Std Dev 51.89
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 26
Mean 0.003491
Std Dev 0.1194
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

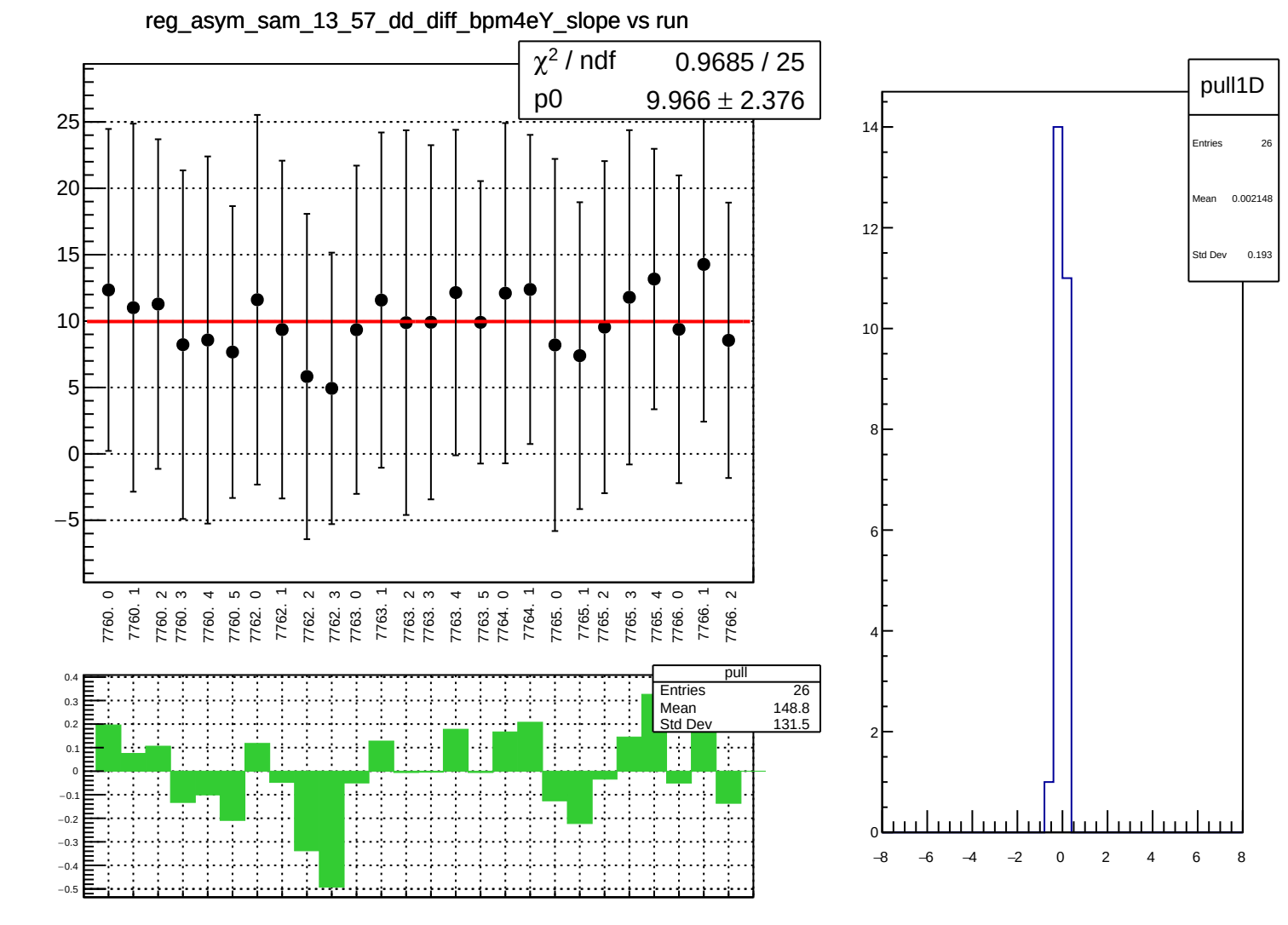

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 0.7416 / 25
p0 −0.8562 ± 0.181
0.5
0
−0.5
−1
−1.5
−2
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 76.8
Std Dev 70.61
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
pull1D
Entries 26
Mean 0.002555
Std Dev 0.1689
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

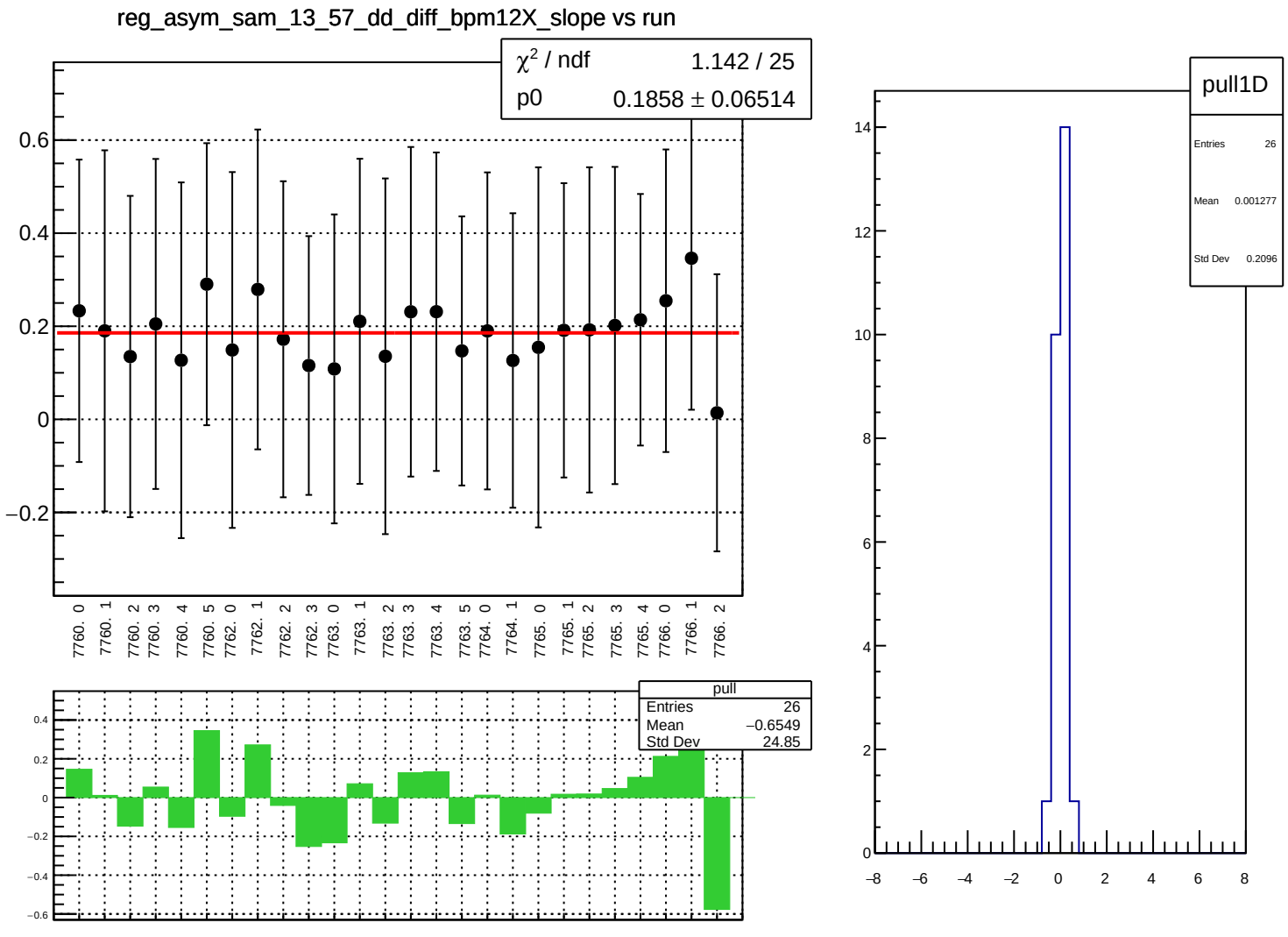

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 0.7234 / 25
p0 −23.92 ± 1.976
−10
−15
−20
−25
−30
−35
−40
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −79.8
Std Dev 90.77
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 26
Mean 0.003611
Std Dev 0.1668
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

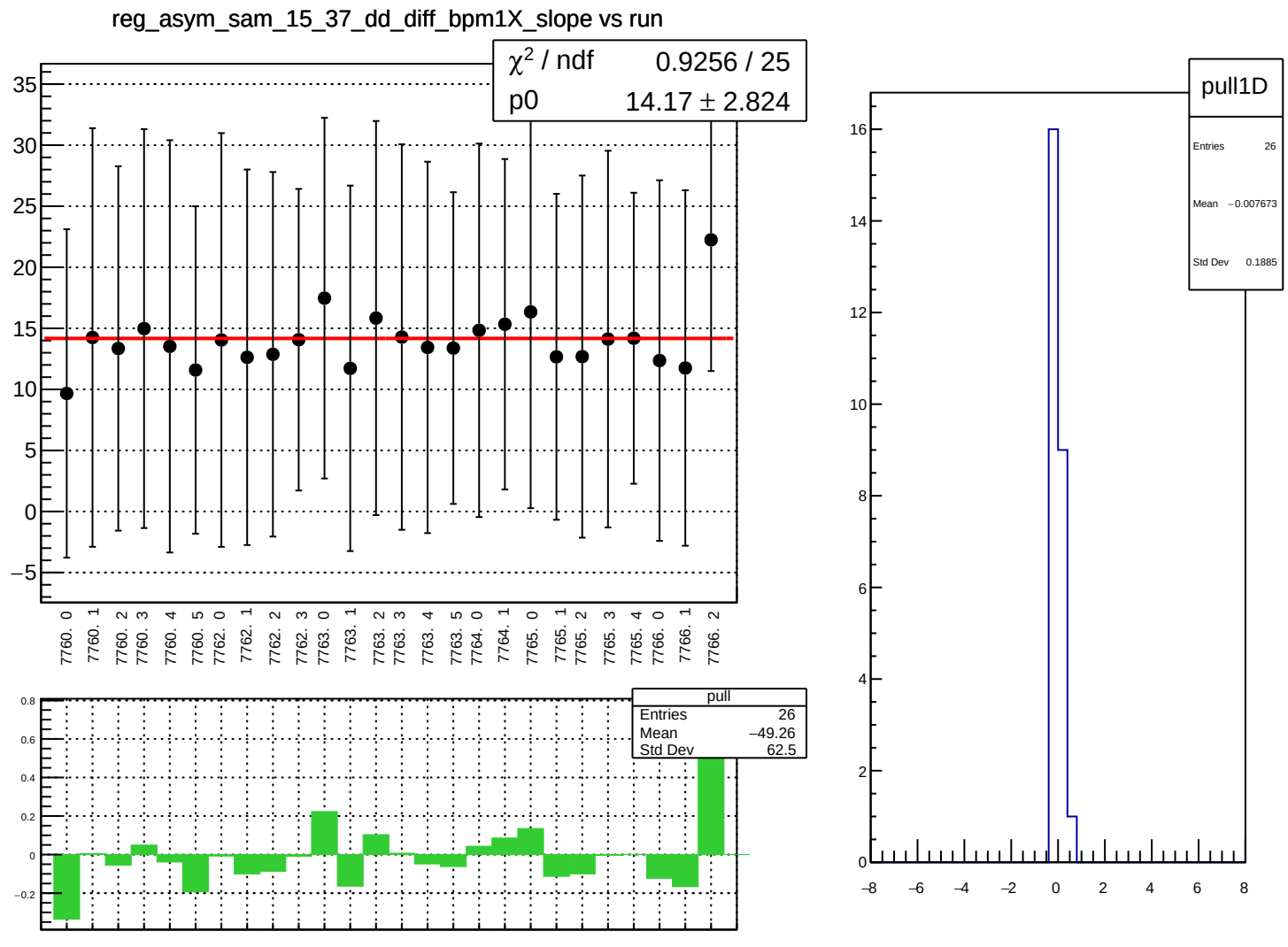

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.017 / 25
p0 −49.15 ± 2.109
−35
−40
−45
−50
−55
−60
−65
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 153.7
Std Dev 137.3
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

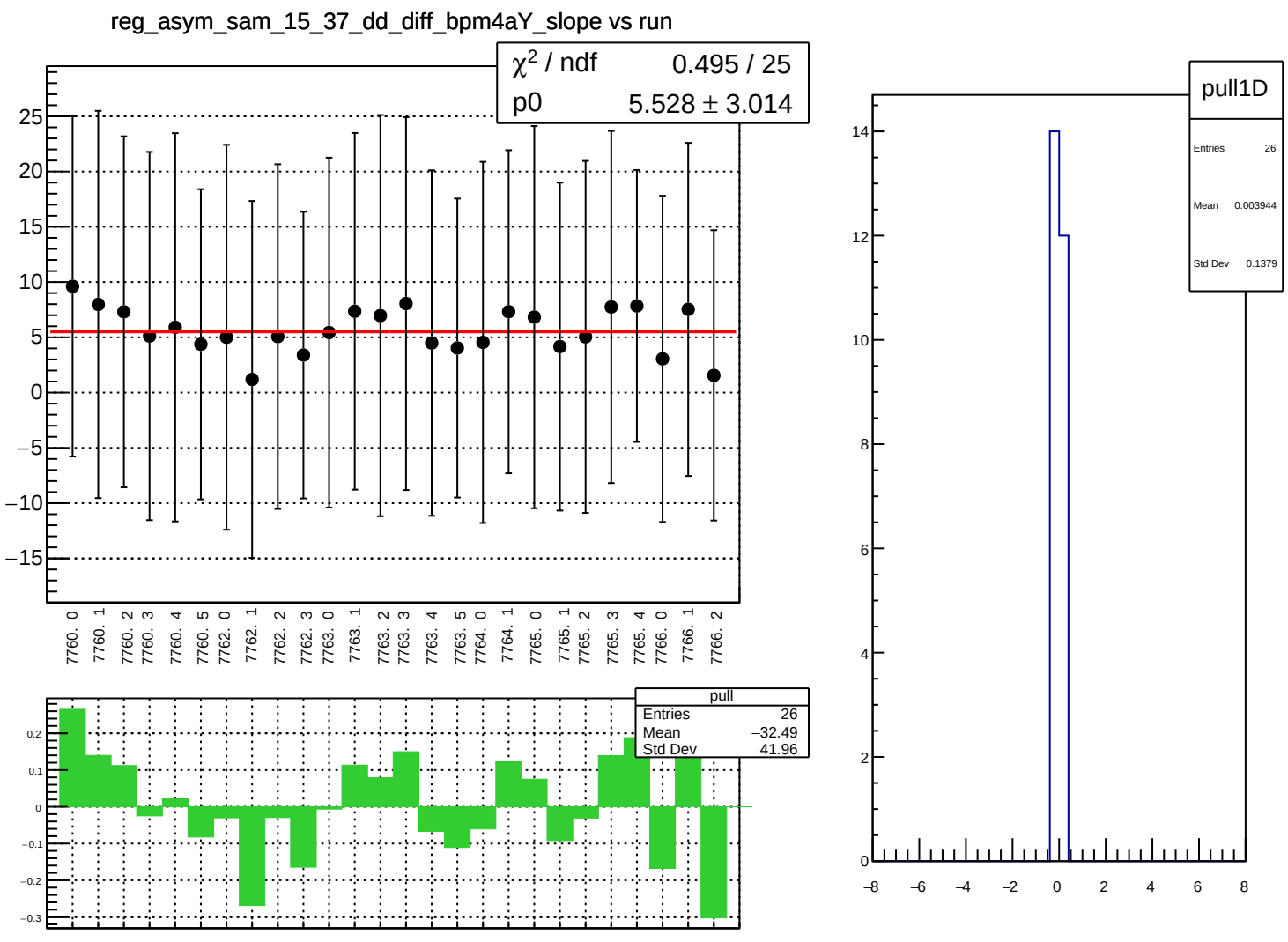

pull1D
Entries 26
Mean −0.002374
Std Dev 0.1978
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

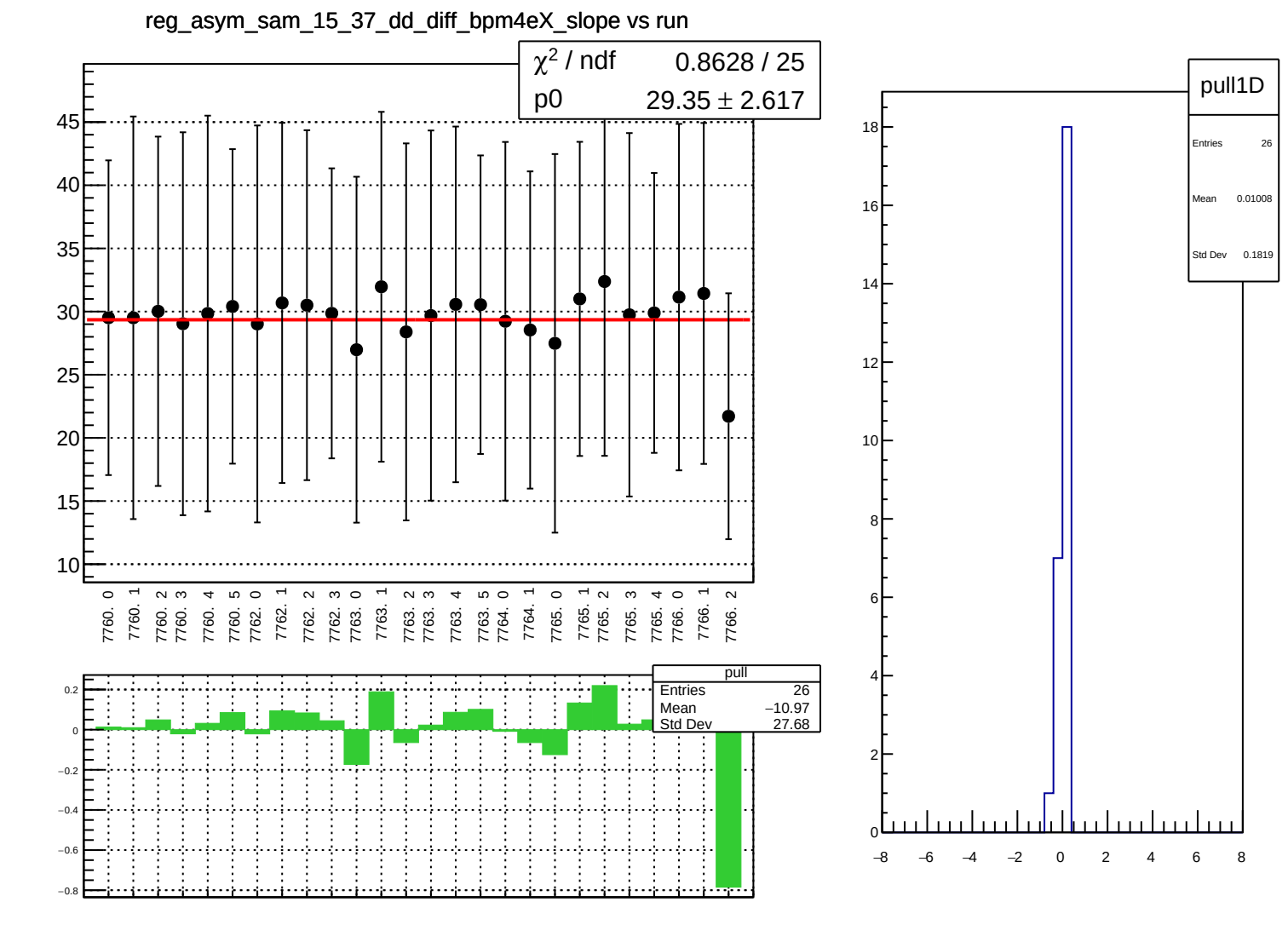

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.6265 / 25
p0 −4.554 ± 1.831
10
5
0
−5
−10
−15
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 2.178
Std Dev 12.13
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 26
Mean −0.005074
Std Dev 0.1551
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

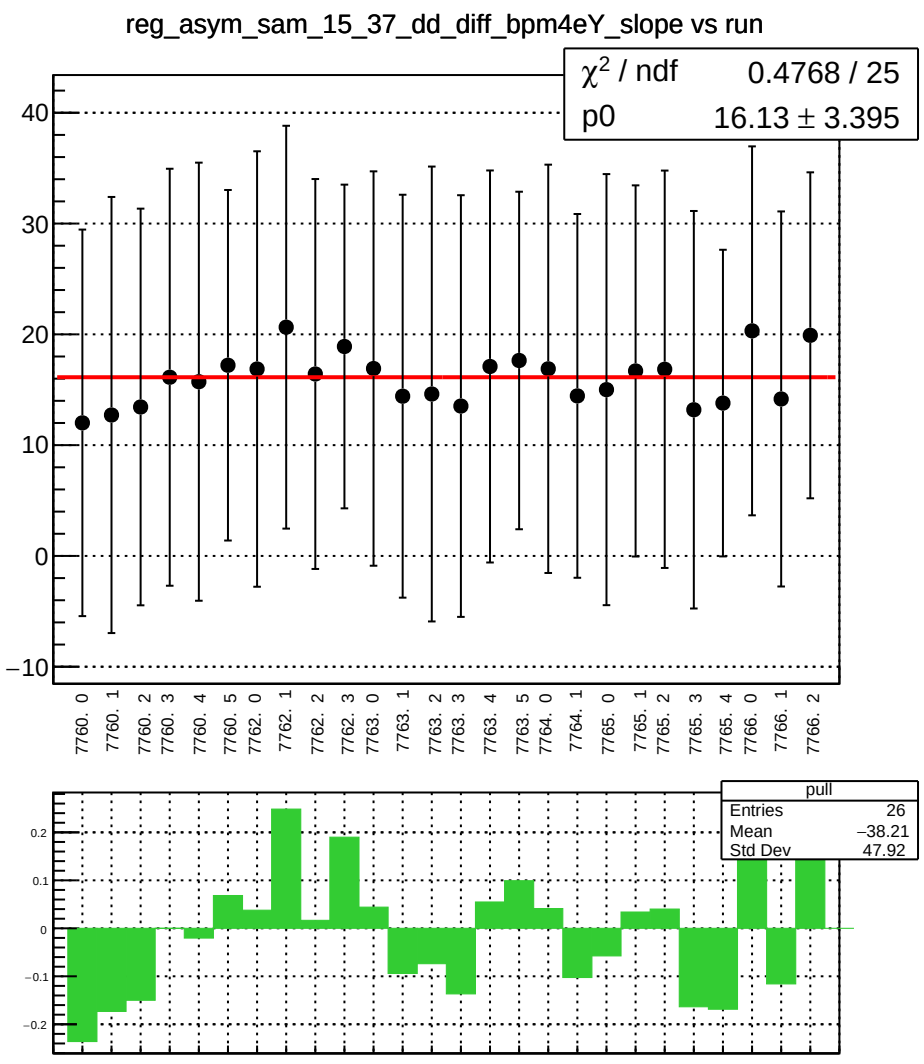

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.9685 / 25
p0 9.966 ± 2.376
25
20
15
10
5
0
−5
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 148.8
Std Dev 131.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
pull1D
Entries 26
Mean 0.002148
Std Dev 0.193
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

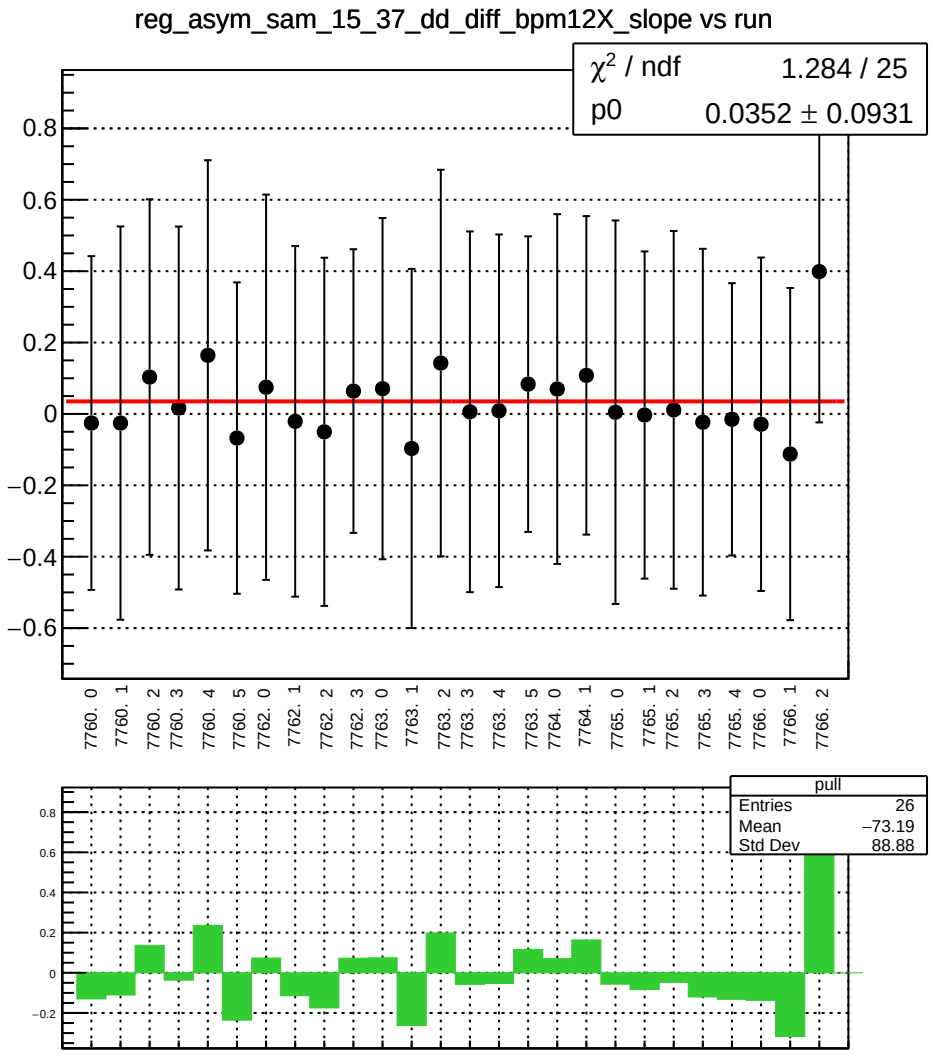

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 1.142 / 25
p0 0.1858 ± 0.06514
0.6
0.4
0.2
0
−0.2
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −0.6549
Std Dev 24.85
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 26
Mean 0.001277
Std Dev 0.2096
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

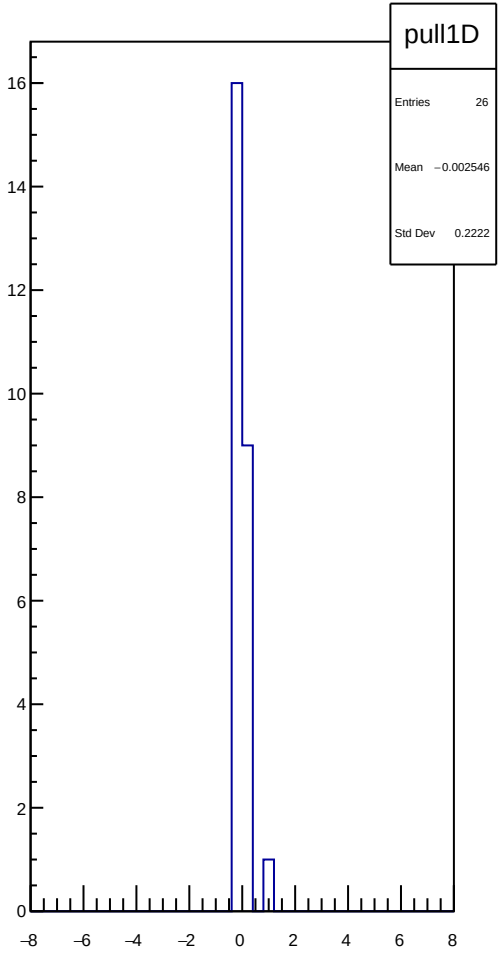

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 0.9256 / 25
p0 14.17 ± 2.824
35
30
25
20
15
10
5
0
−5
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −49.26
Std Dev 62.5
0.8
0.6
0.4
0.2
0
−0.2
pull1D
Entries 26
Mean −0.007673
Std Dev 0.1885
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

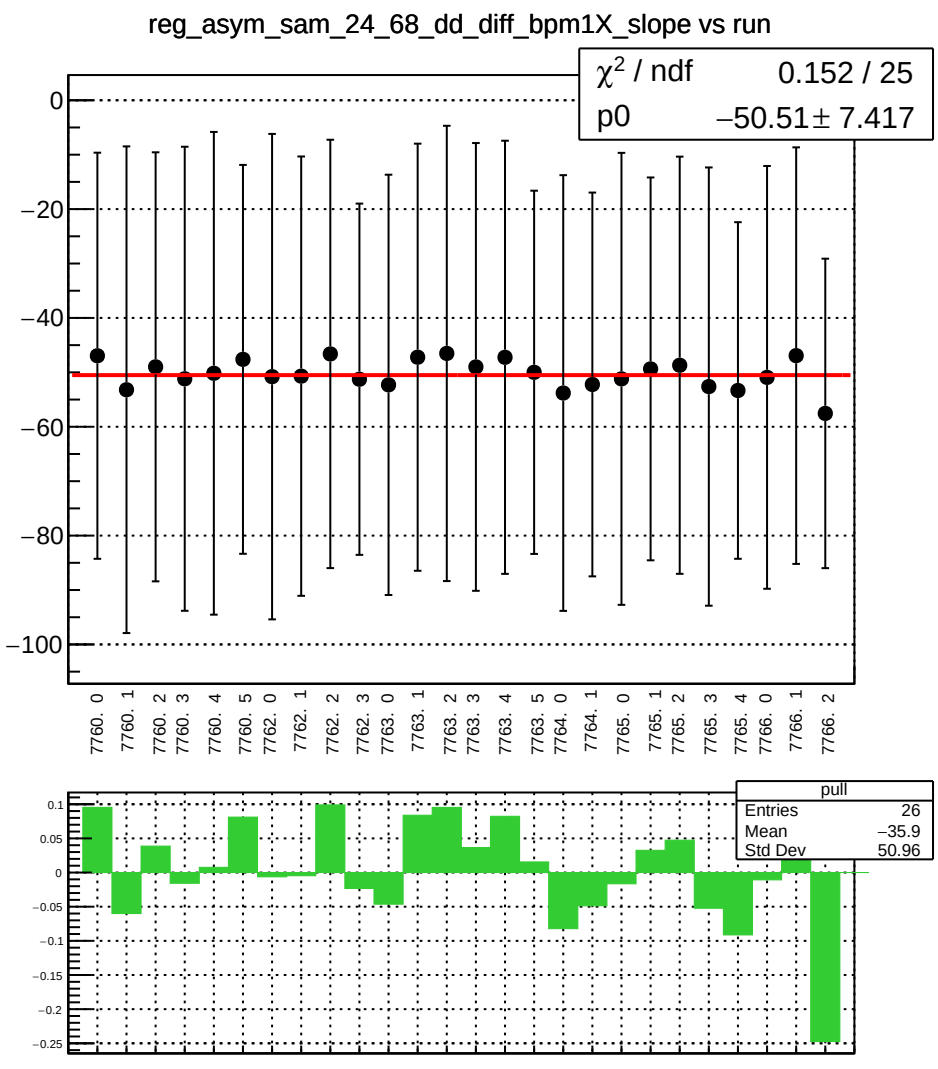

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.495 / 25
p0 5.528 ± 3.014
25
20
15
10
5
0
−5
−10
−15
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −32.49
Std Dev 41.96
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 26
Mean 0.003944
Std Dev 0.1379
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

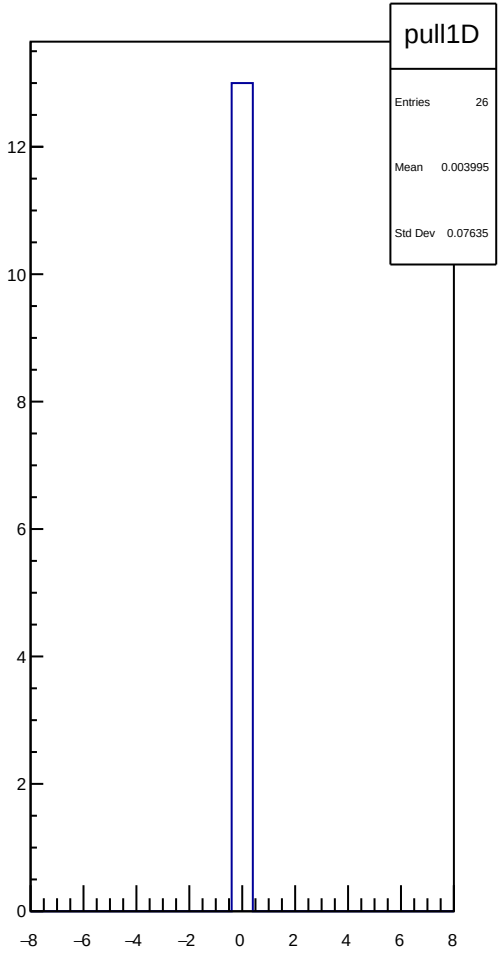

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.8628 / 25
p0 29.35 ± 2.617
pull
Entries 26
Mean −10.97
Std Dev 27.68
pull1D
Entries 26
Mean 0.01008
Std Dev 0.1819

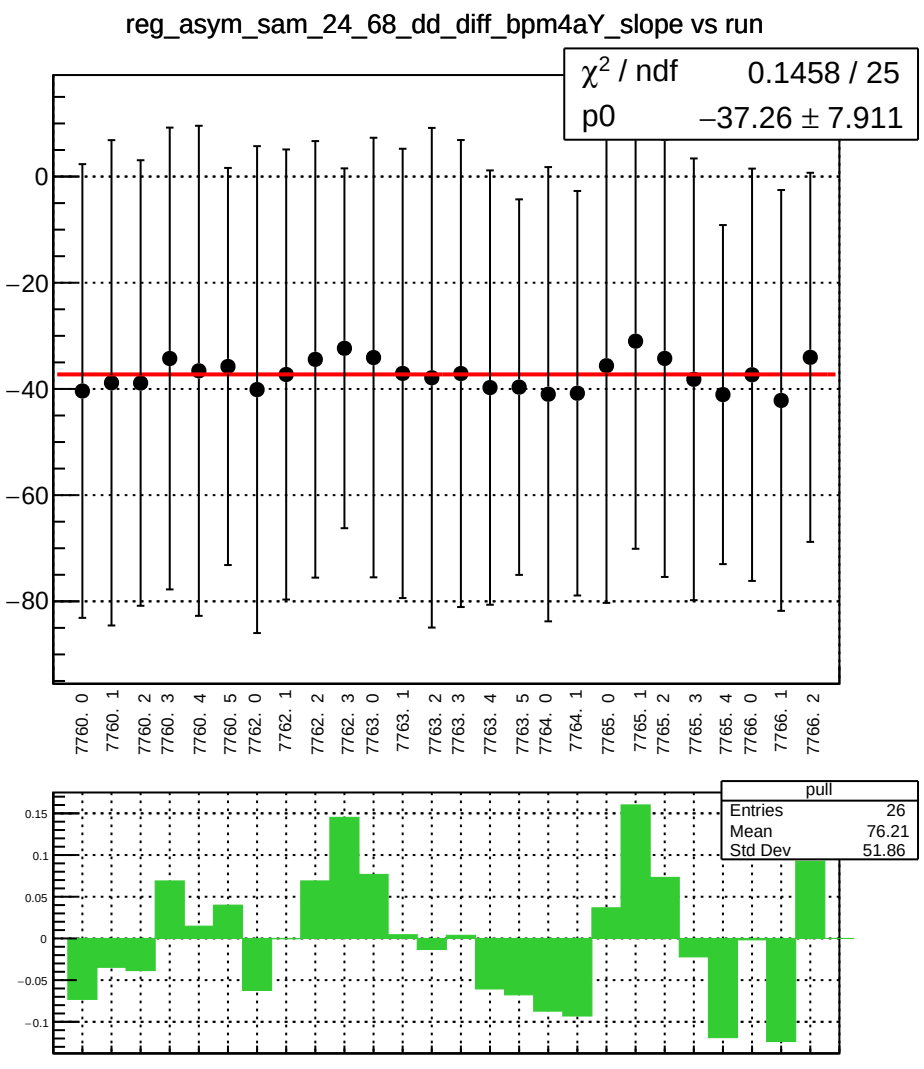

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.4768 / 25
p0 16.13 ± 3.395
40
30
20
10
0
−10
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −38.21
Std Dev 47.92
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 26
Mean −0.004187
Std Dev 0.1354
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

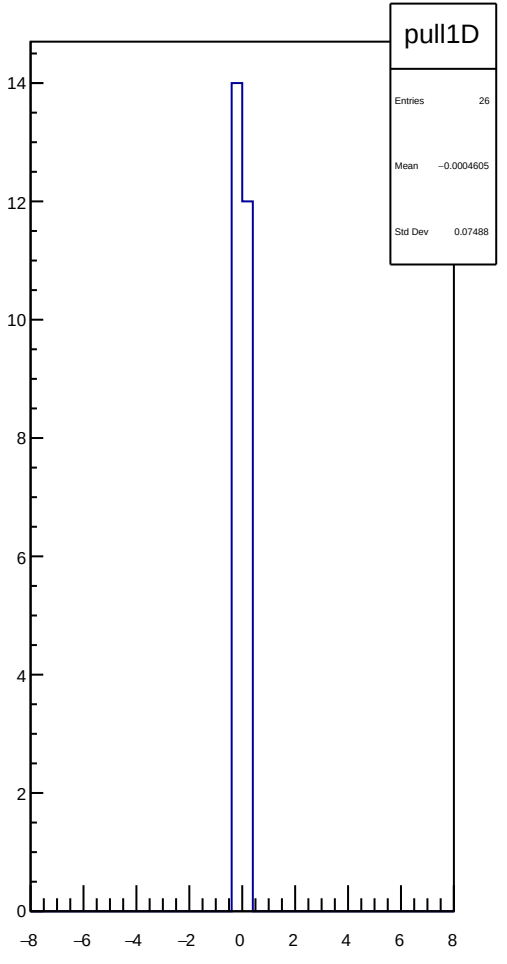

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 1.284 / 25
p0 0.0352 ± 0.0931
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −73.19
Std Dev 88.88
0.8
0.6
0.4
0.2
0
−0.2

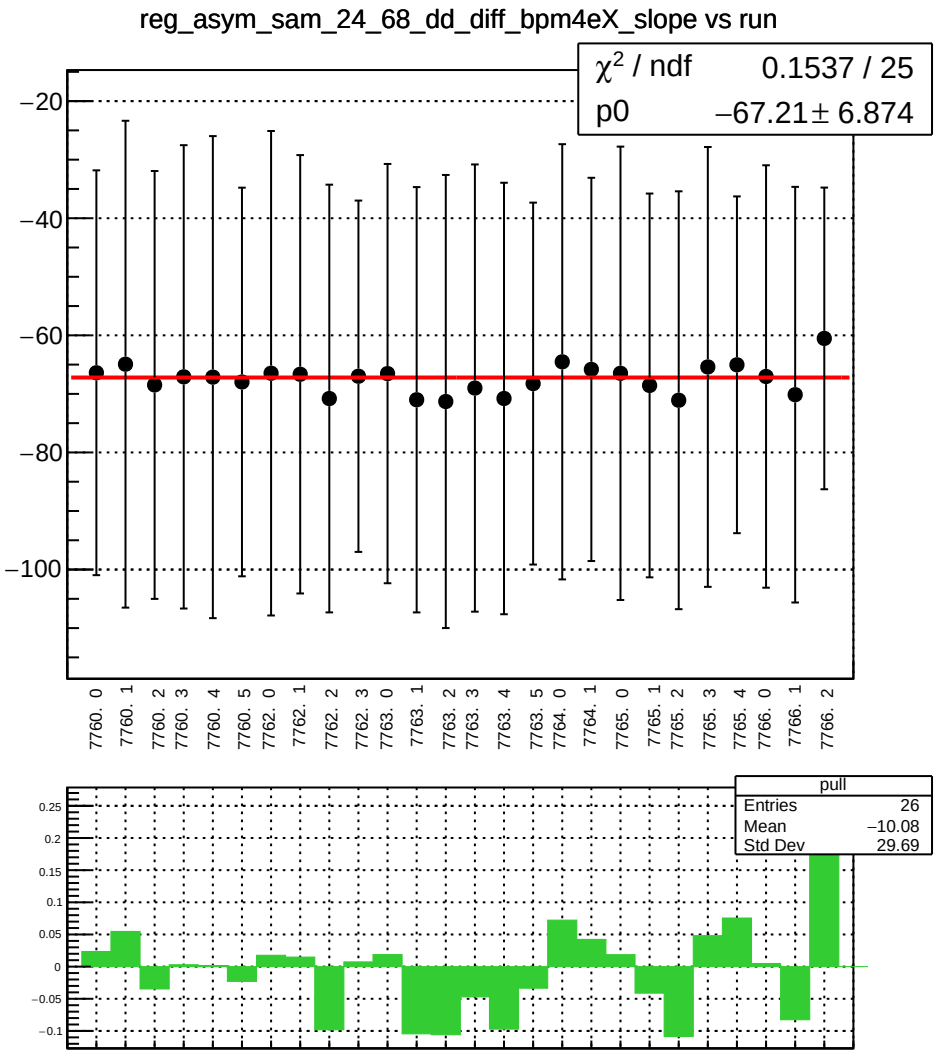

pull1D
Entries 26
Mean −0.002546
Std Dev 0.2222
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

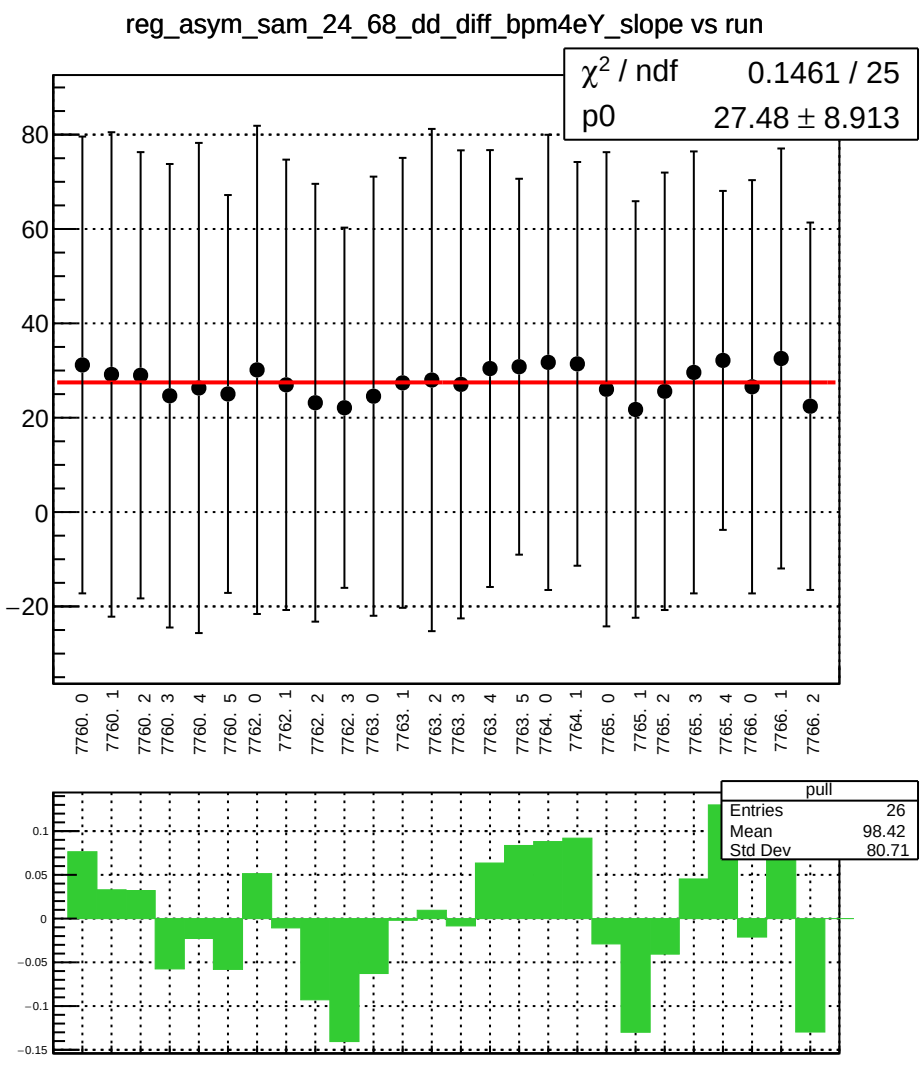

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 0.152 / 25
p0 −50.51 ± 7.417
0
−20
−40
−60
−80
−100
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −35.9
Std Dev 50.96
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
−0.25

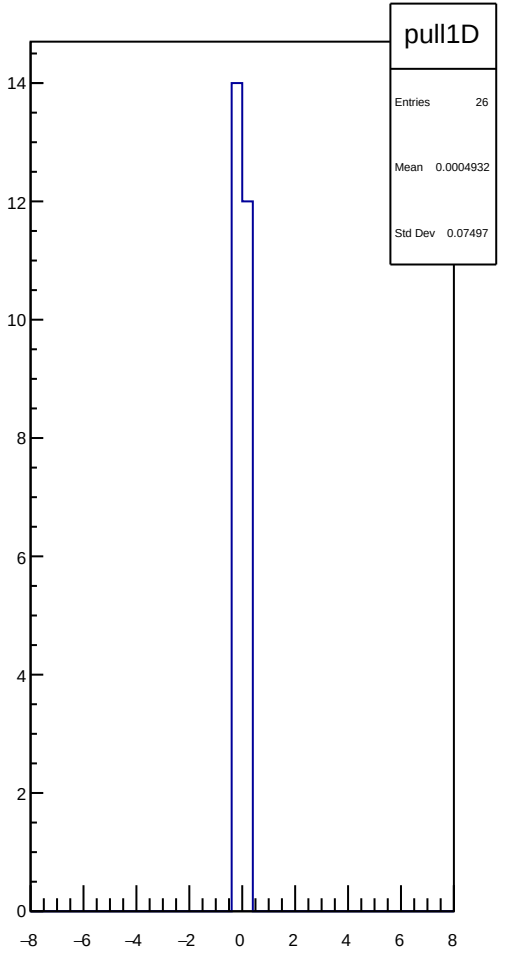

pull1D
Entries 26
Mean 0.003995
Std Dev 0.07635
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

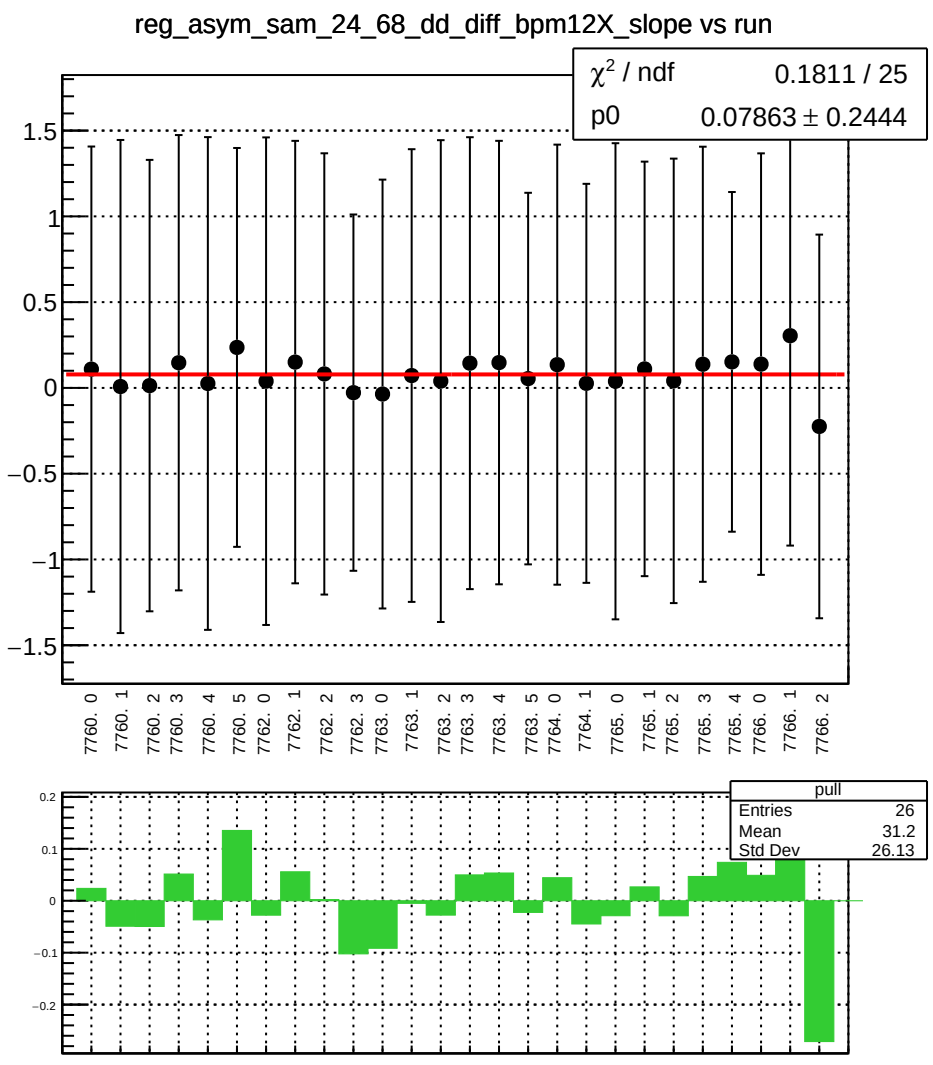

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.1458 / 25
p0 −37.26 ± 7.911
0
−20
−40
−60
−80
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 76.21
Std Dev 51.86
0.15
0.1
0.05
0
−0.05
−0.1

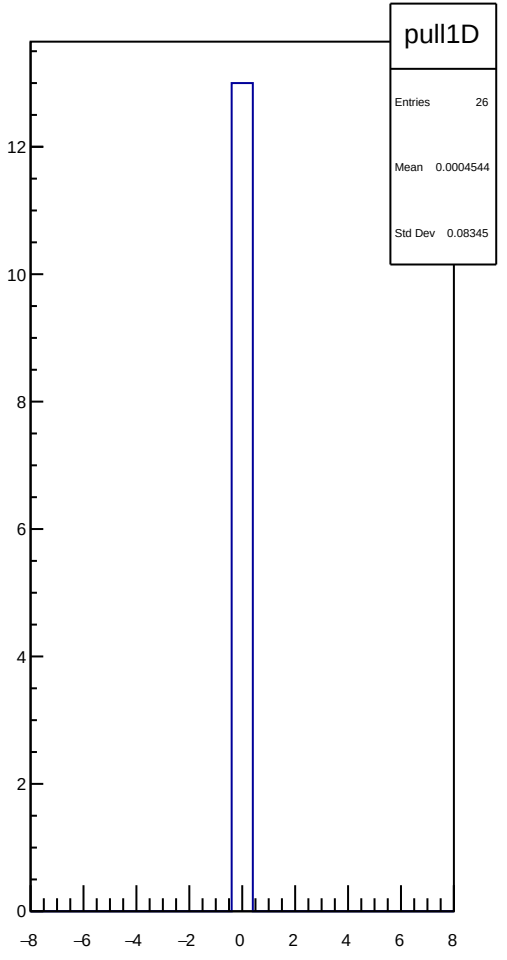

pull1D
Entries 26
Mean −0.0004605
Std Dev 0.07488
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

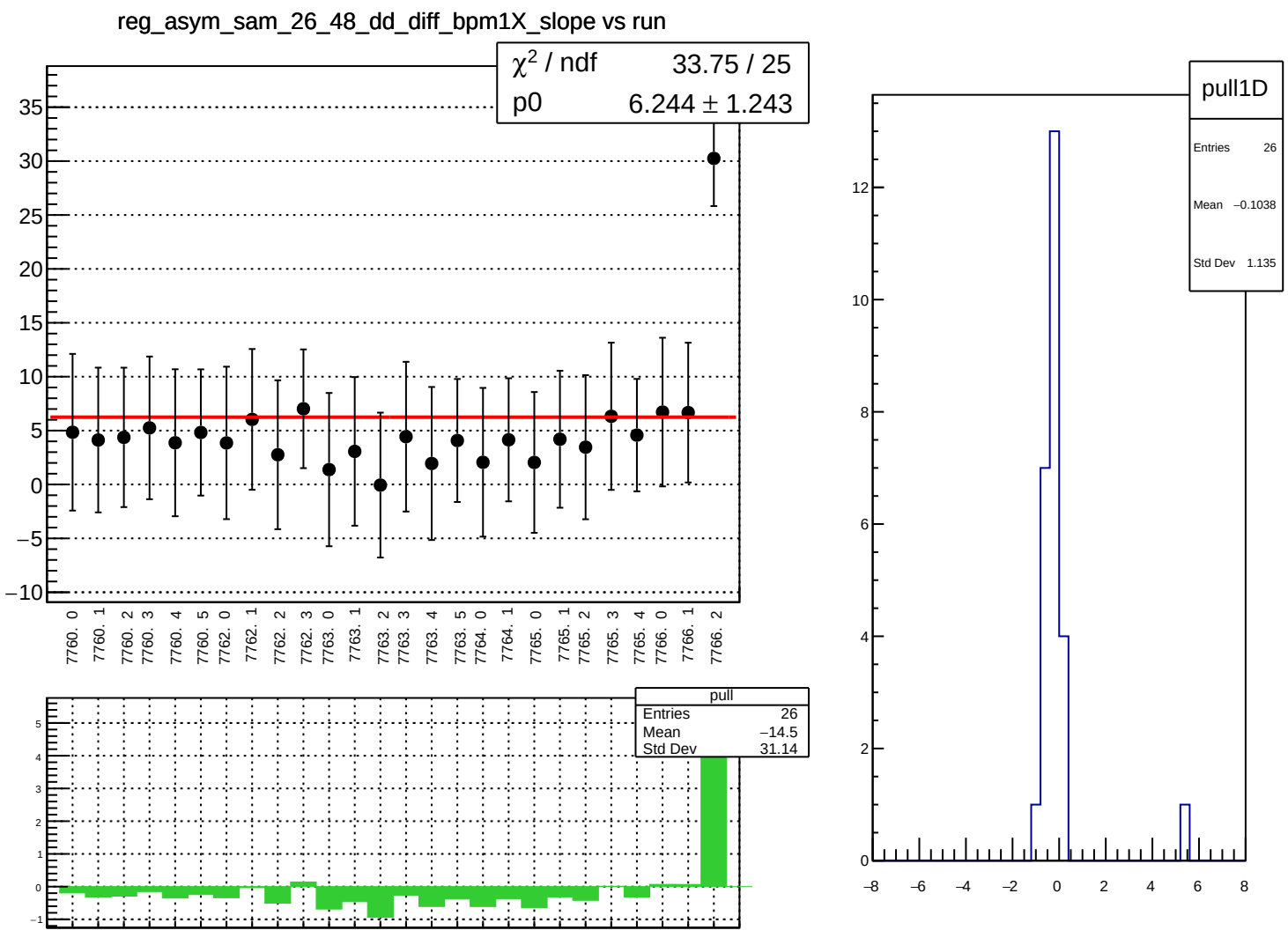

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.1537 / 25
p0 −67.21 ± 6.874
−20
−40
−60
−80
−100
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −10.08
Std Dev 29.69
0.25
0.2
0.15
0.1
0.05
0
−0.05
−0.1
pull1D
Entries 26
Mean −0.004386
Std Dev 0.07677
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

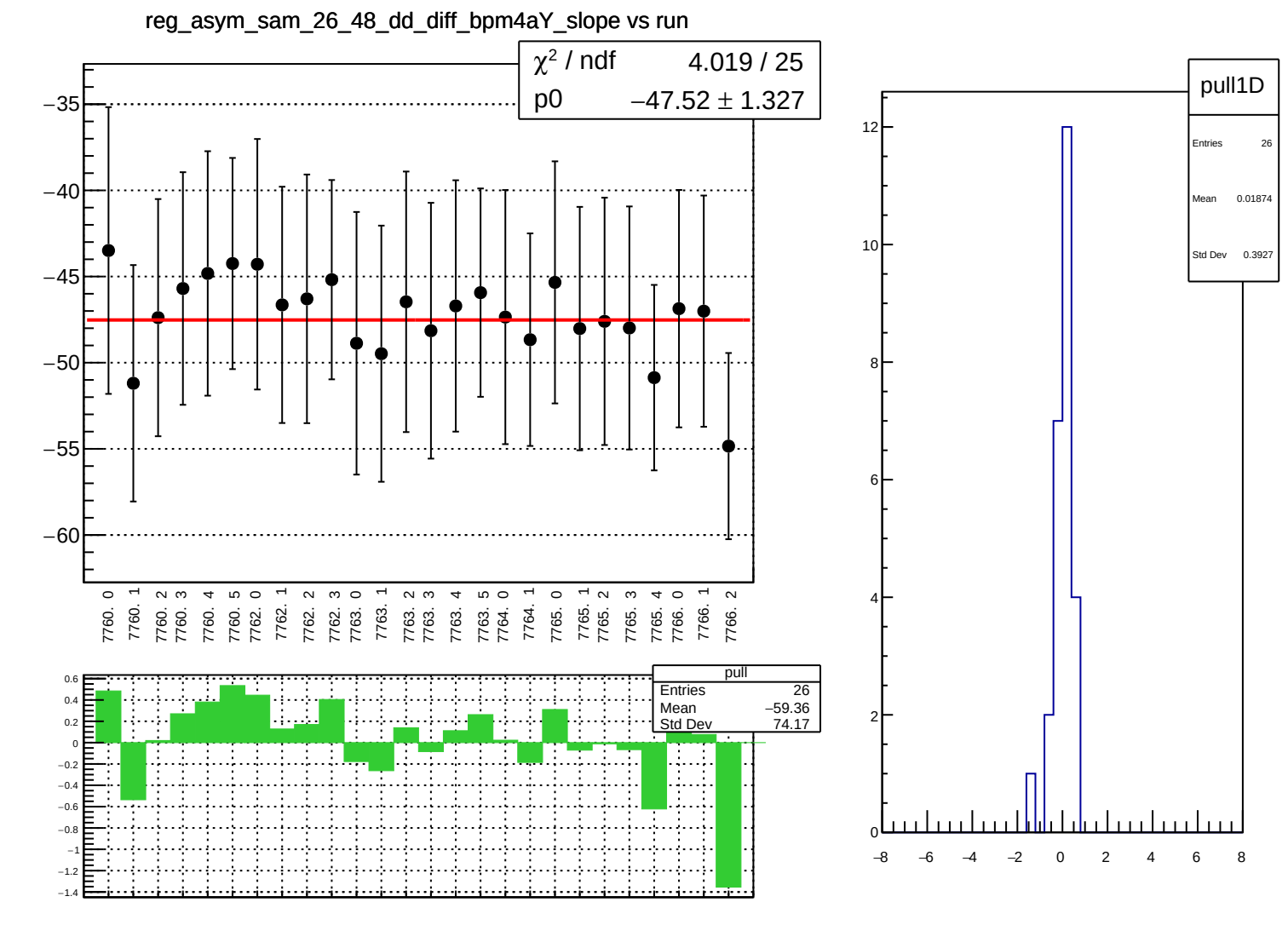

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.1461 / 25
p0 27.48 ± 8.913
80
60
40
20
0
−20
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 98.42
Std Dev 80.71
0.1
0.05
0
−0.05
−0.1
−0.15

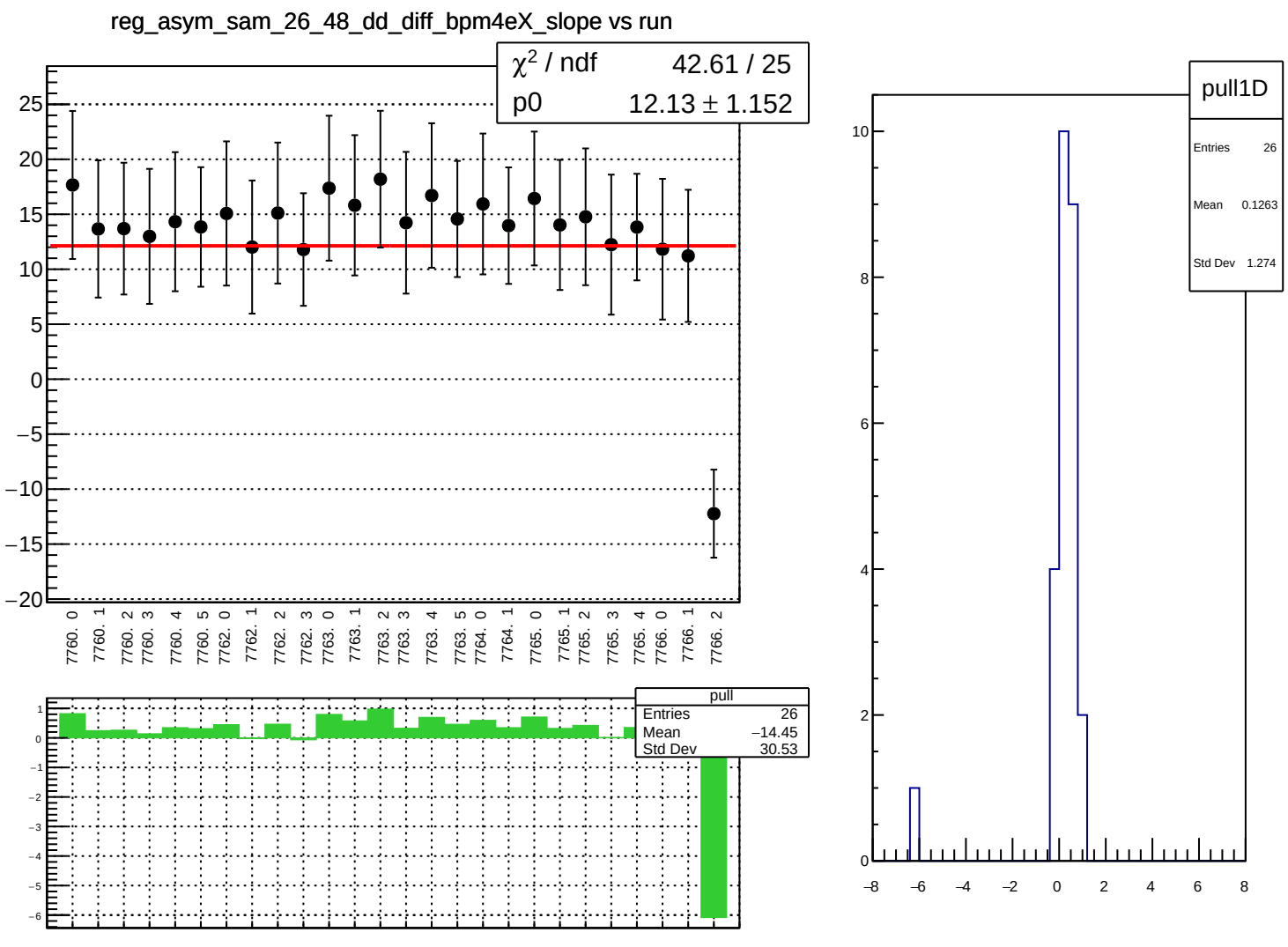

pull1D
Entries 26
Mean 0.0004932
Std Dev 0.07497
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

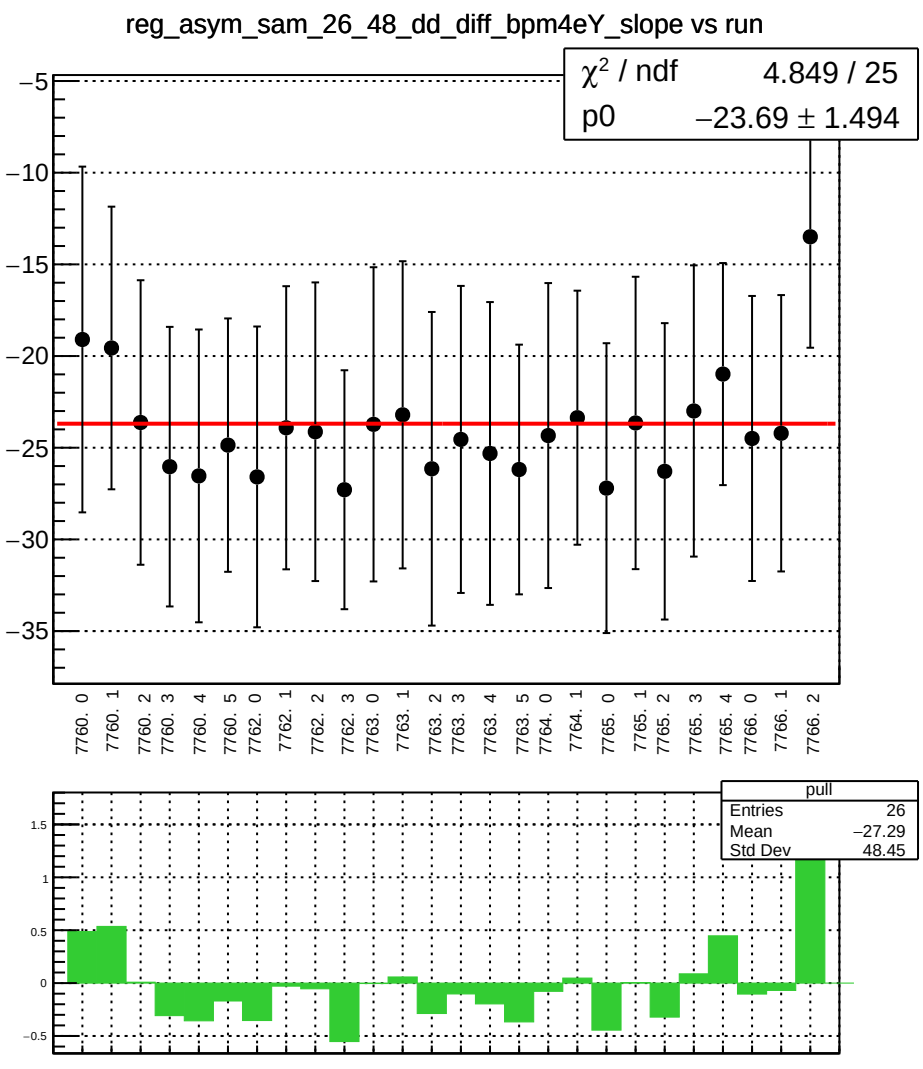

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 0.1811 / 25
p0 0.07863 ± 0.2444
1.5
1
0.5
0
−0.5
−1
−1.5
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 31.2
Std Dev 26.13
0.2
0.1
0
−0.1
−0.2

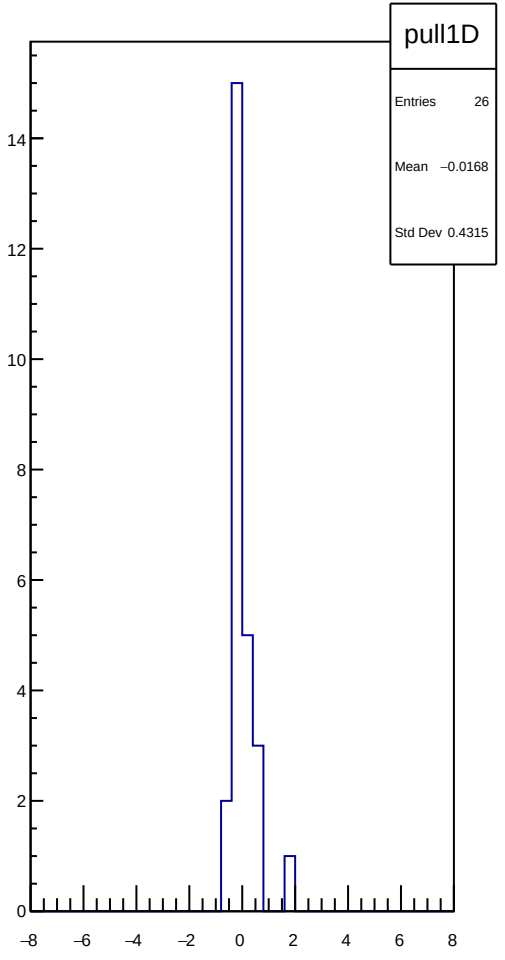

pull1D
Entries 26
Mean 0.0004544
Std Dev 0.08345
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

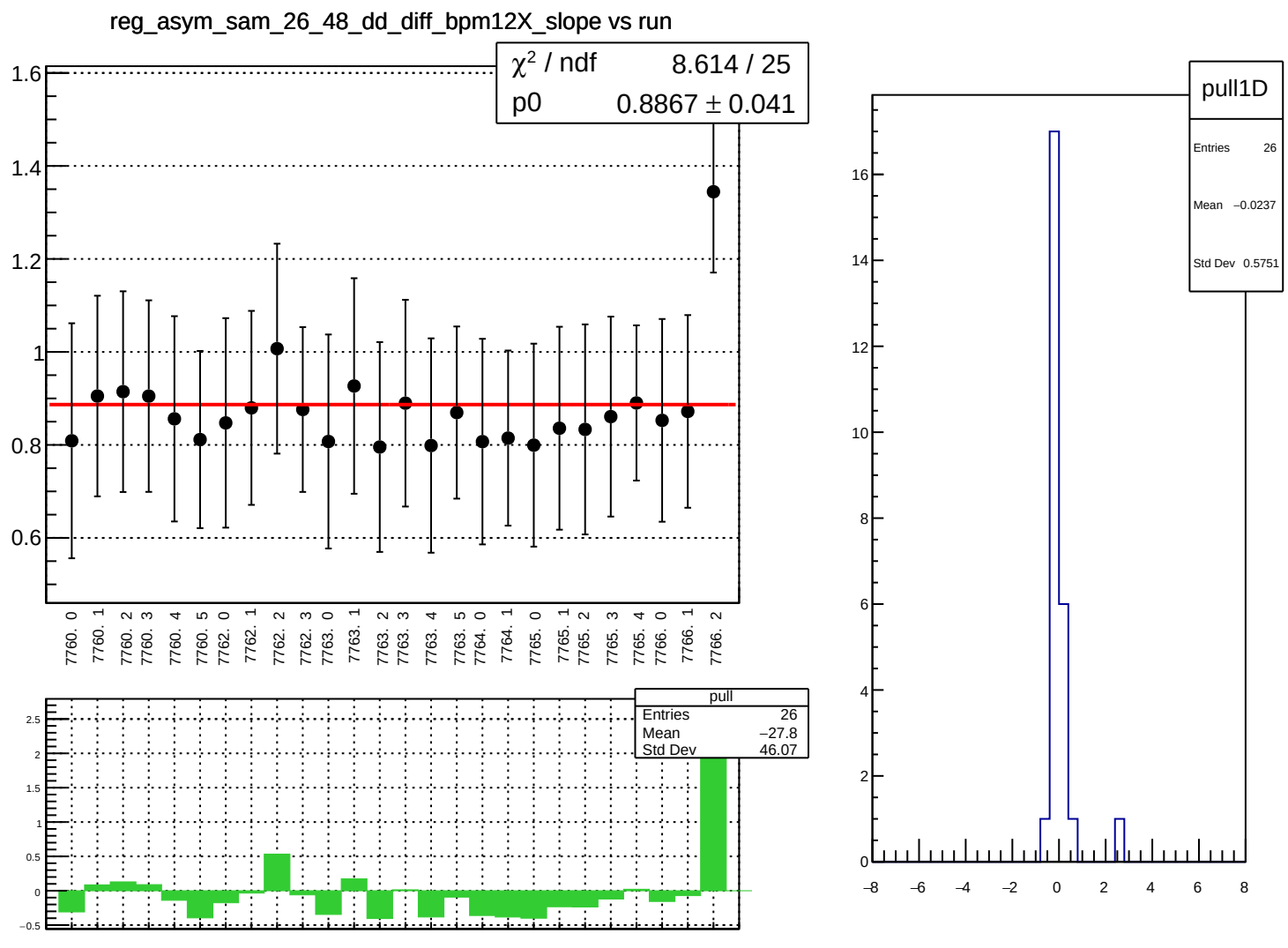

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 33.75 / 25
p0 6.244 ± 1.243
35
30
25
20
15
10
5
0
−5
−10
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −14.5
Std Dev 31.14
5
4
3
2
1
0
−1
pull1D
Entries 26
Mean −0.1038
Std Dev 1.135
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

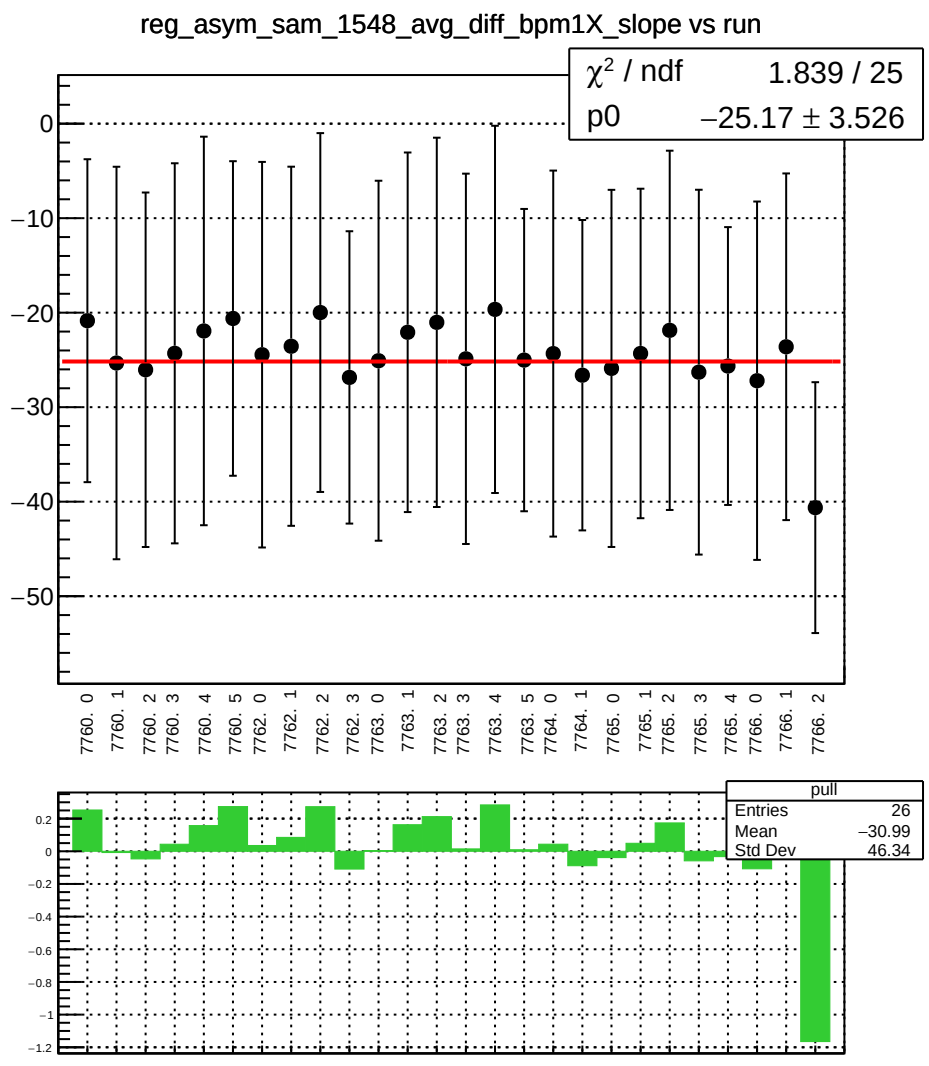

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.019 / 25
p0 −47.52 ± 1.327
−35
−40
−45
−50
−55
−60
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −59.36
Std Dev 74.17
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4
pull1D
Entries 26
Mean 0.01874
Std Dev 0.3927
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

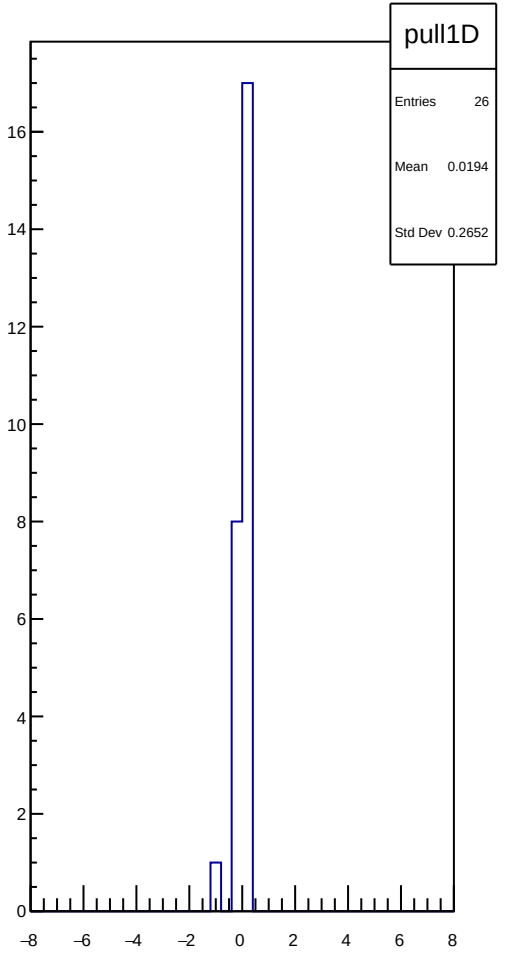

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 42.61 / 25
p0 12.13 ± 1.152
pull
Entries 26
Mean −14.45
Std Dev 30.53
pull1D
Entries 26
Mean 0.1263
Std Dev 1.274

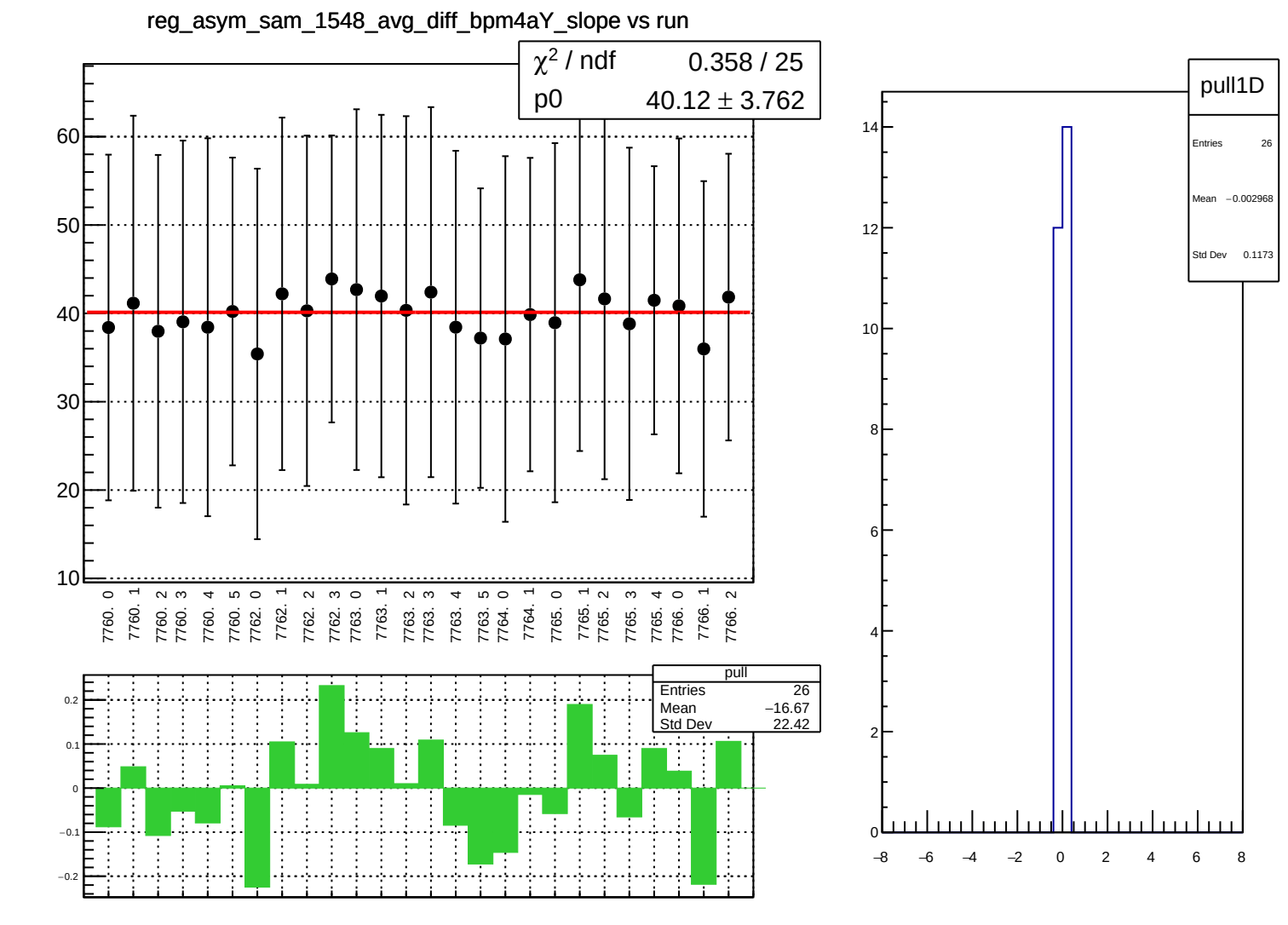

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.849 / 25
p0 −23.69 ± 1.494
−5
−10
−15
−20
−25
−30
−35
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −27.29
Std Dev 48.45
1.5
1
0.5
0
−0.5

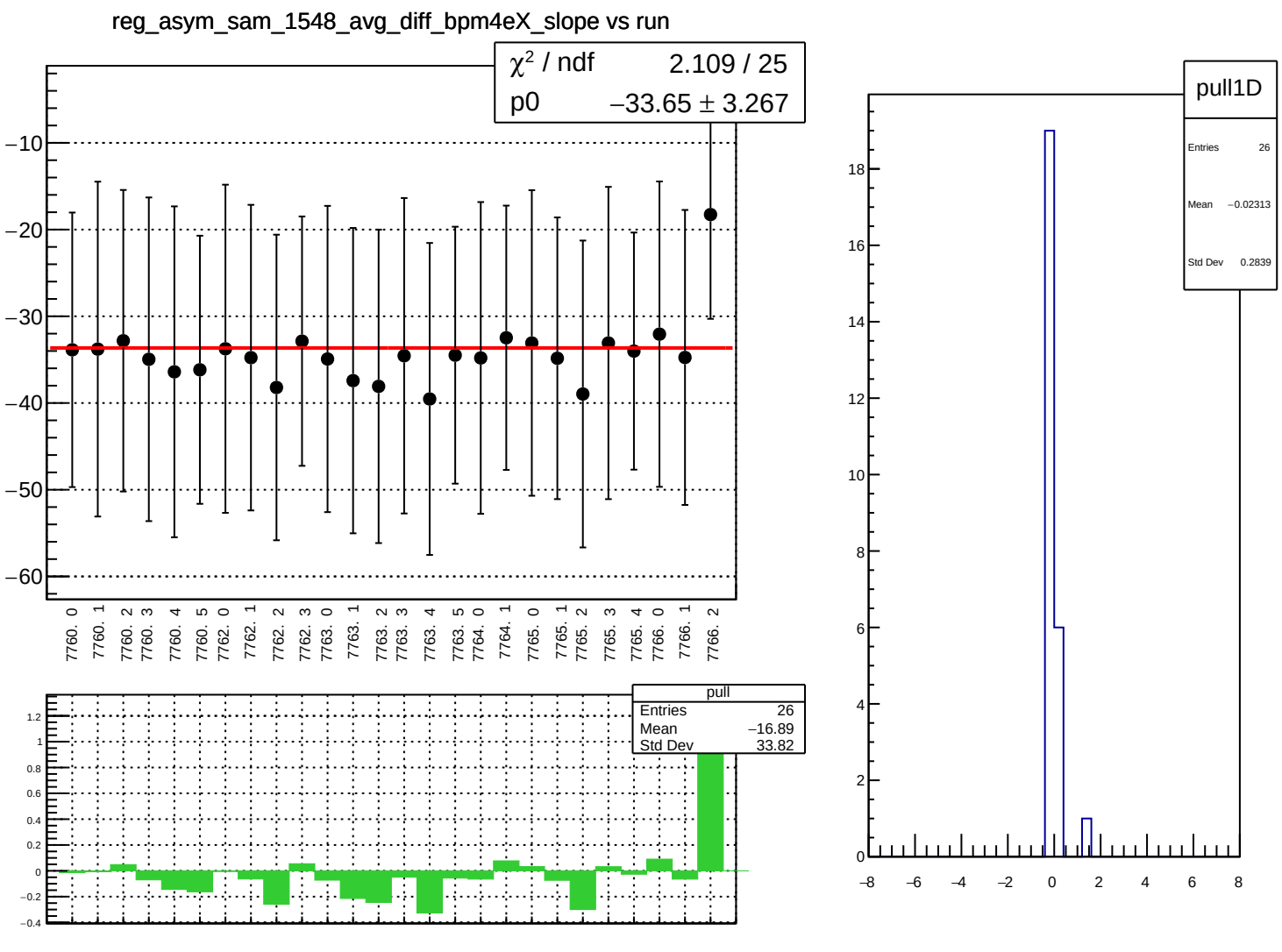

pull1D
Entries 26
Mean −0.0168
Std Dev 0.4315
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

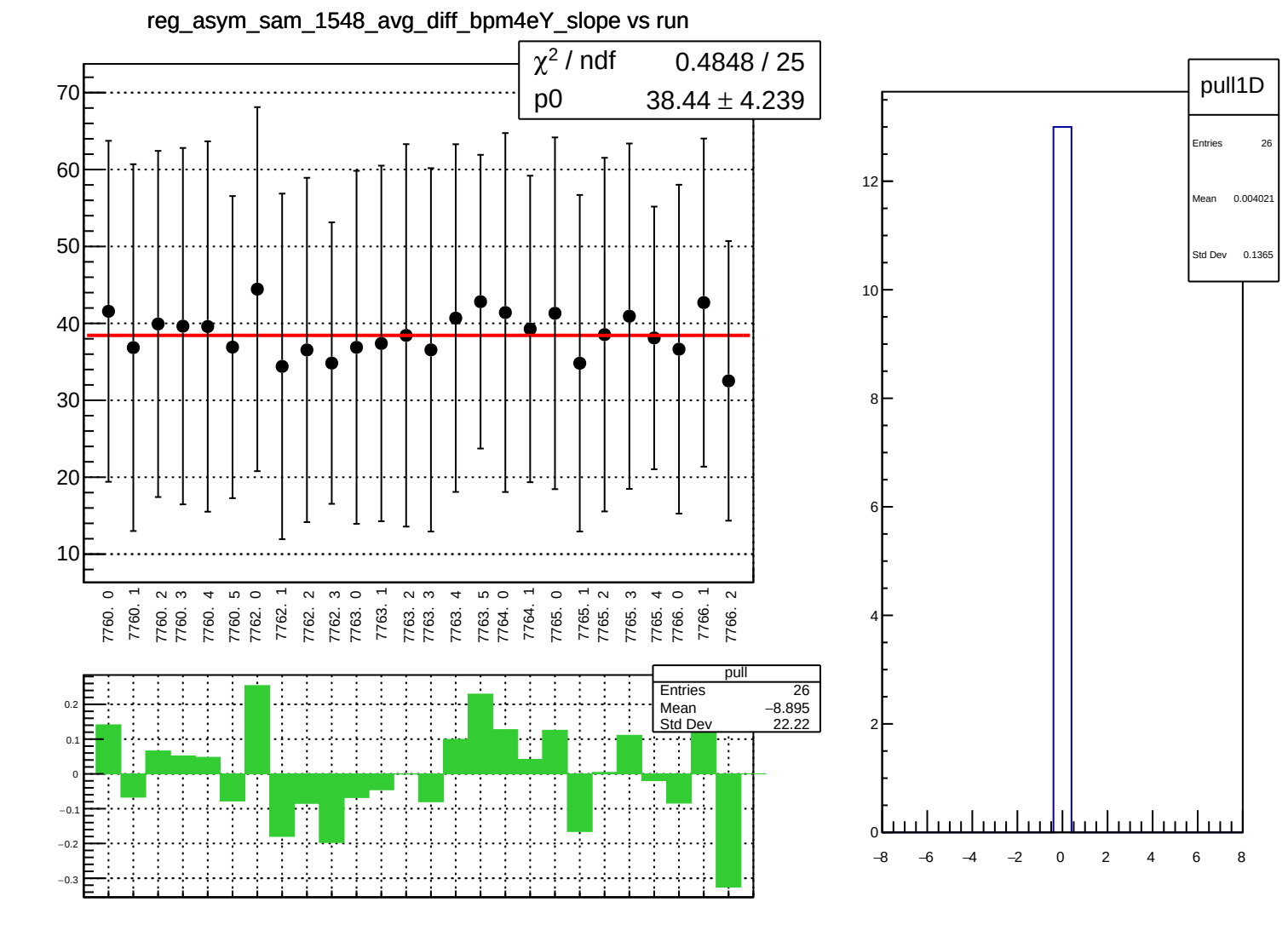

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 8.614 / 25
p0 0.8867 ± 0.041
1.6
1.4
1.2
1
0.8
0.6
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −27.8
Std Dev 46.07
2.5
2
1.5
1
0.5
0
−0.5
pull1D
Entries 26
Mean −0.0237
Std Dev 0.5751
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

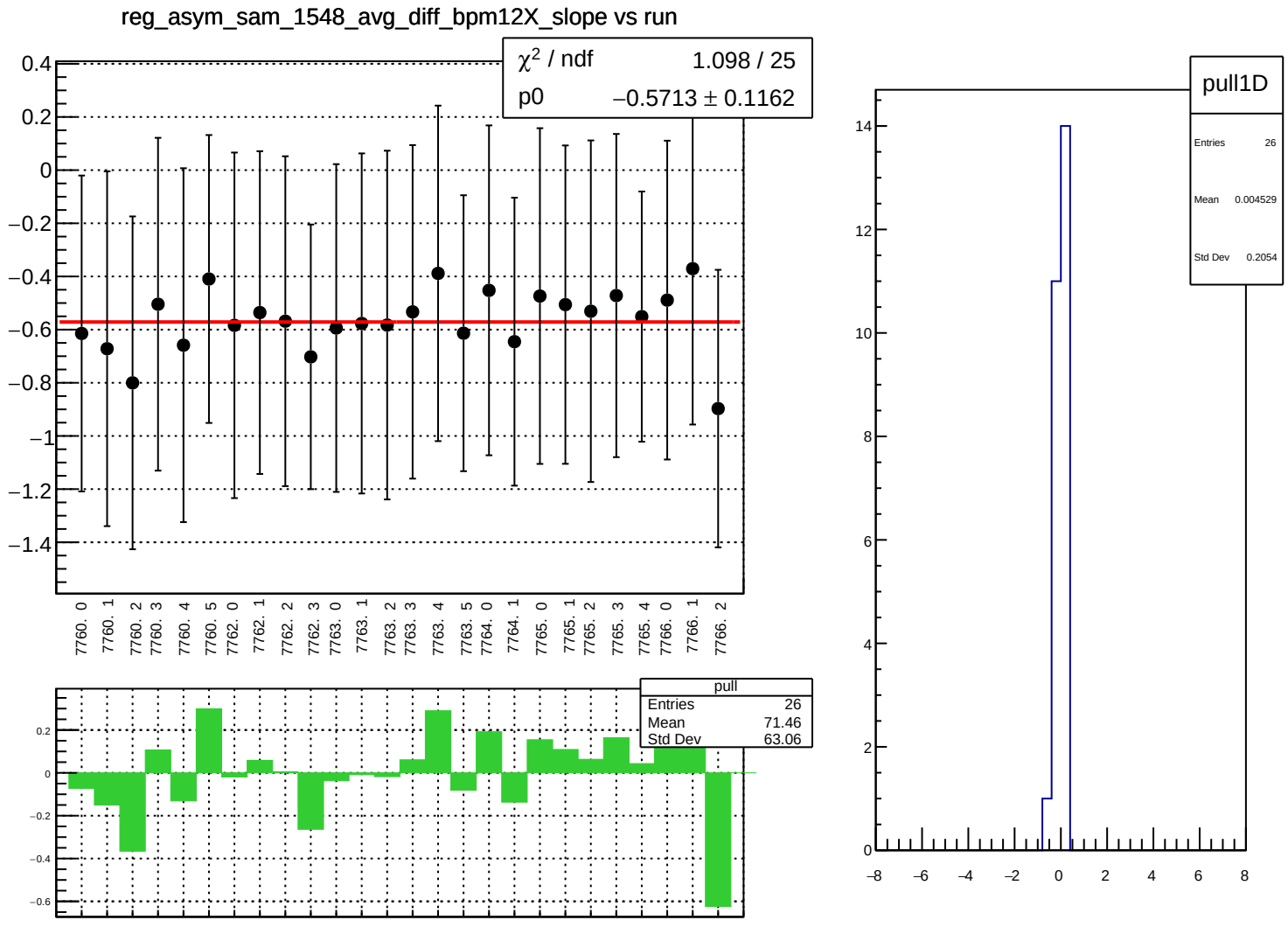

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 1.839 / 25
p0 −25.17 ± 3.526
0
−10
−20
−30
−40
−50
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −30.99
Std Dev 46.34
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

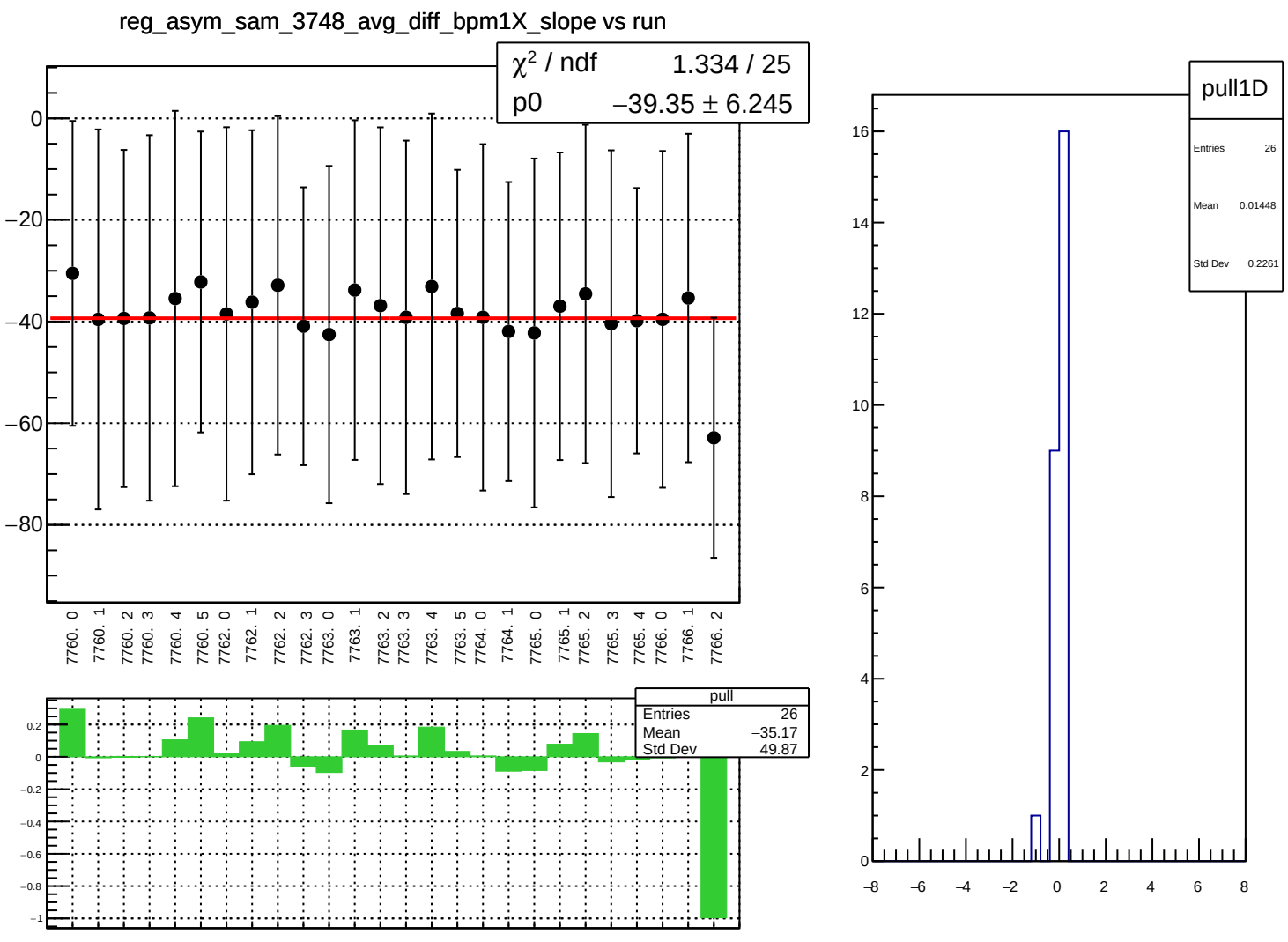

pull1D
Entries 26
Mean 0.0194
Std Dev 0.2652
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

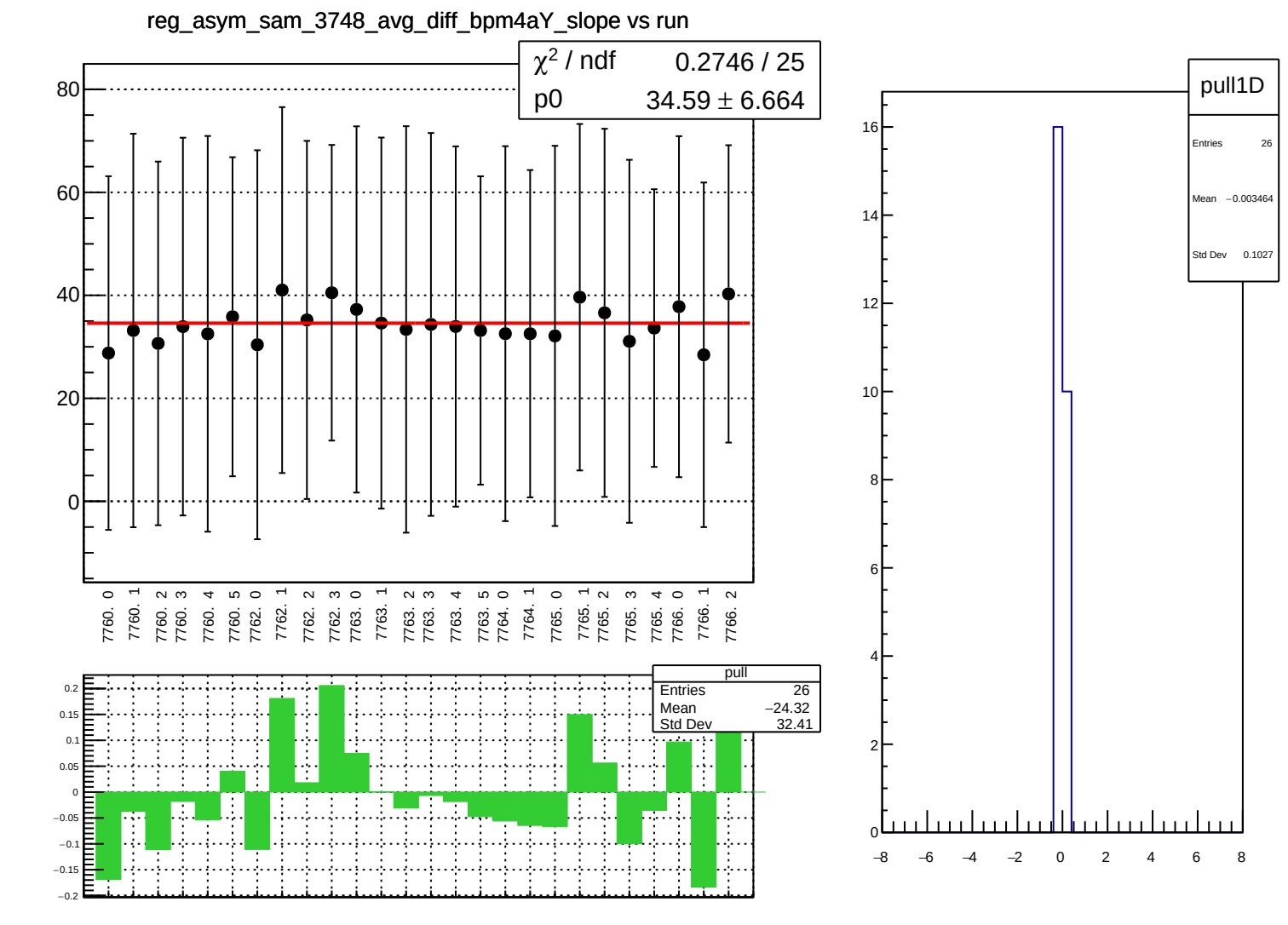

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.358 / 25
p0 40.12 ± 3.762
60
50
40
30
20
10
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −16.67
Std Dev 22.42
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 26
Mean −0.002968
Std Dev 0.1173
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

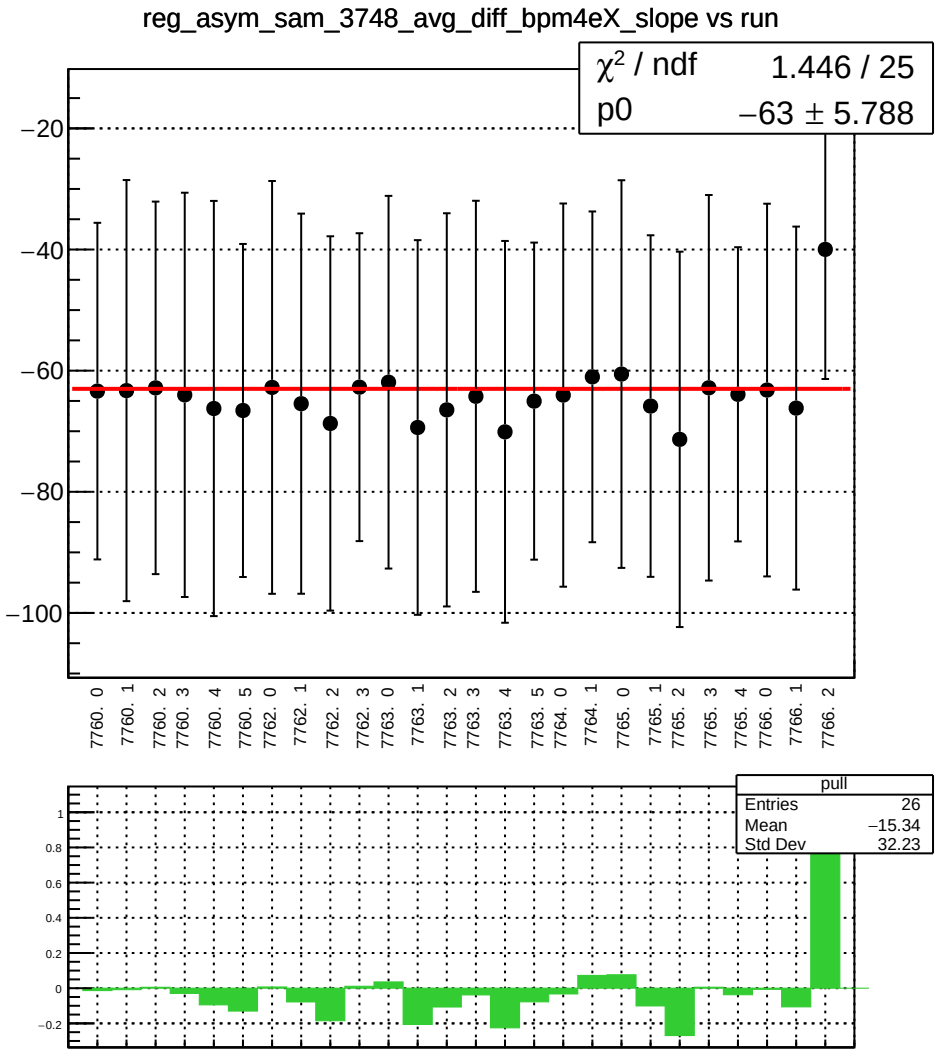

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.109 / 25
p0 −33.65 ± 3.267
−10
−20
−30
−40
−50
−60
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −16.89
Std Dev 33.82
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 26
Mean −0.02313
Std Dev 0.2839
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

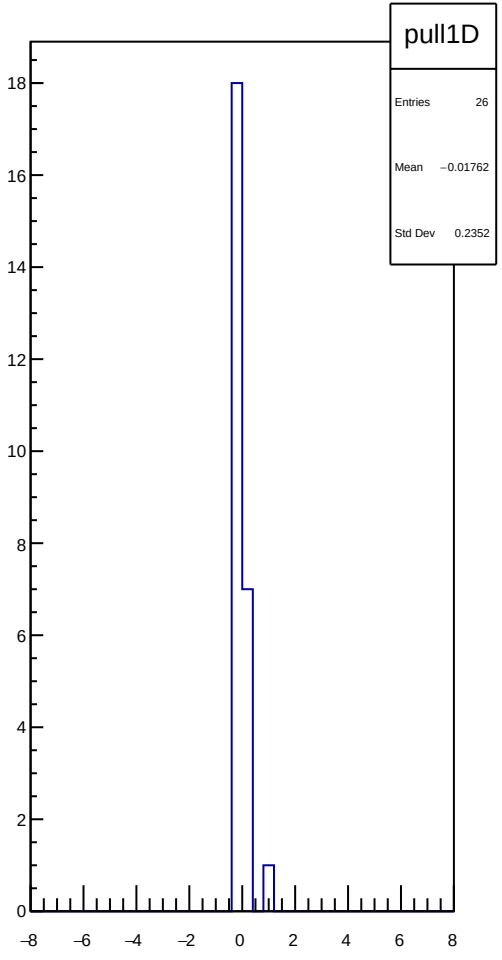

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.4848 / 25
p0 38.44 ± 4.239
70
60
50
40
30
20
10
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −8.895
Std Dev 22.22
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 26
Mean 0.004021
Std Dev 0.1365
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

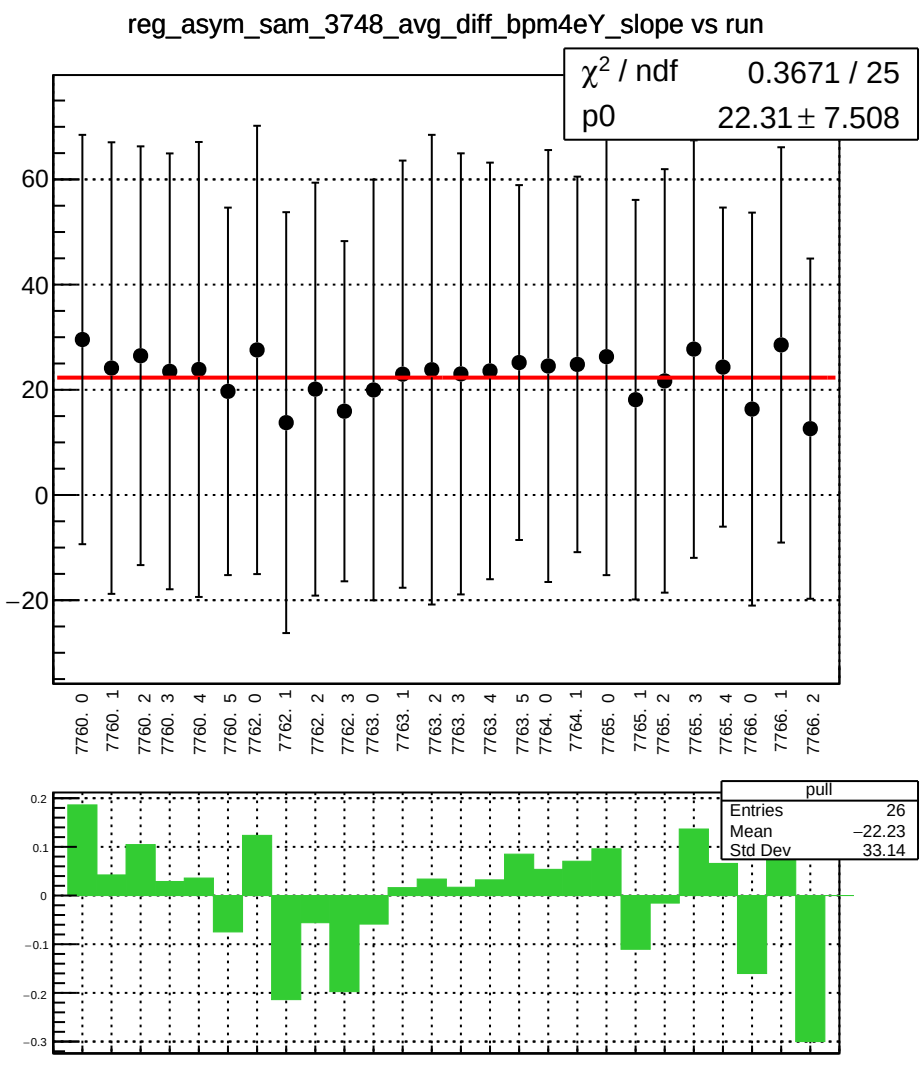

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 1.098 / 25
p0 −0.5713 ± 0.1162
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 71.46
Std Dev 63.06
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 26
Mean 0.004529
Std Dev 0.2054
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

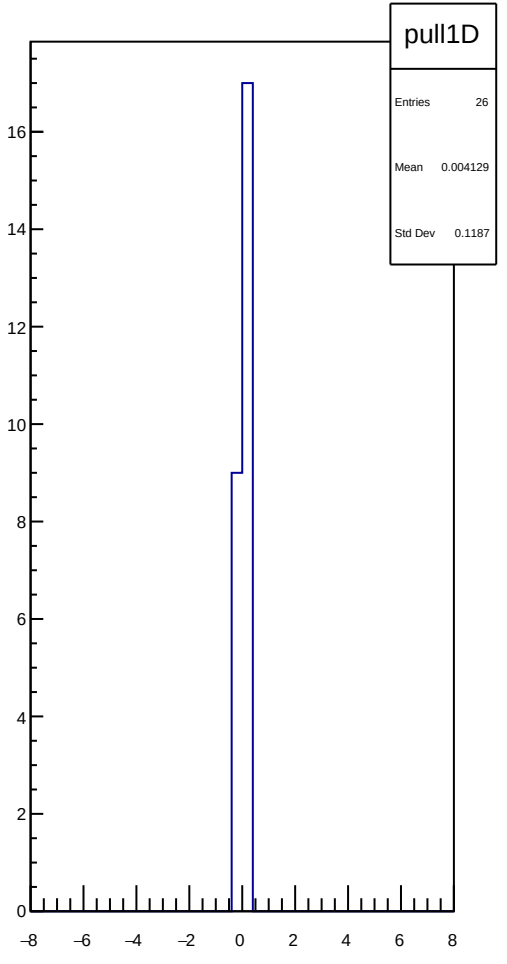

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 1.334 / 25
p0 −39.35 ± 6.245
0
−20
−40
−60
−80
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −35.17
Std Dev 49.87
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 26
Mean 0.01448
Std Dev 0.2261
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

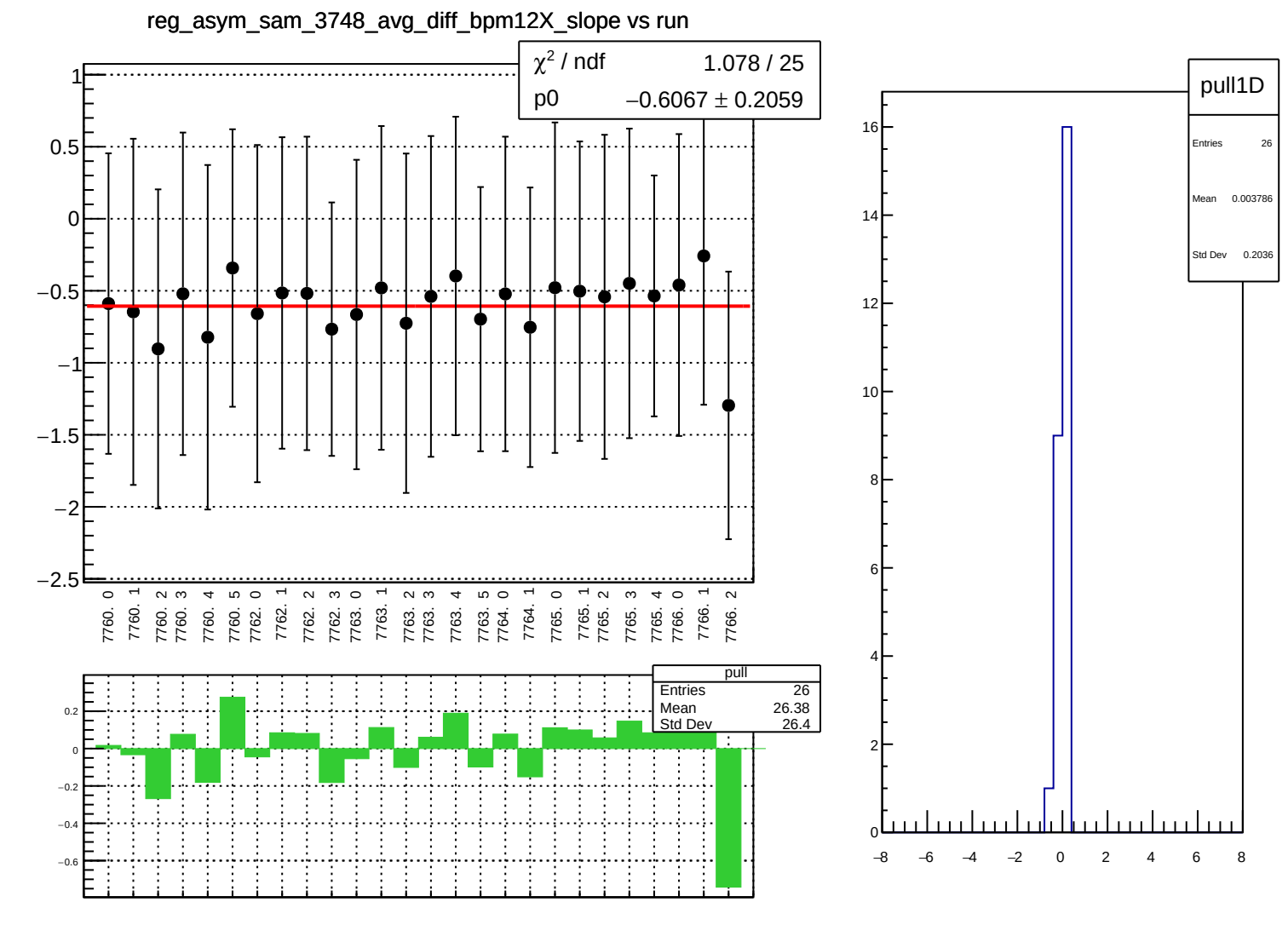

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.2746 / 25
p0 34.59 ± 6.664
80
60
40
20
0
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −24.32
Std Dev 32.41
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
pull1D
Entries 26
Mean −0.003464
Std Dev 0.1027
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

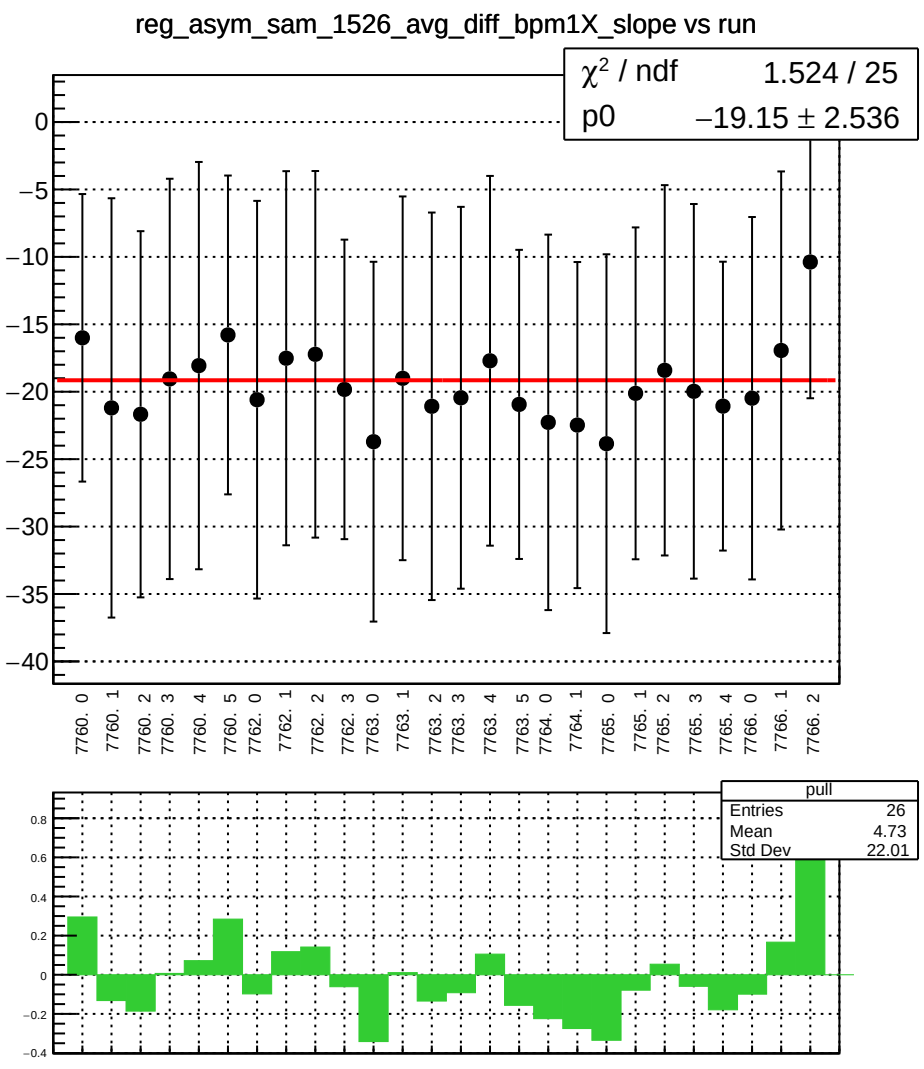

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.446 / 25
p0 −63 ± 5.788
−20
−40
−60
−80
−100
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −15.34
Std Dev 32.23
1
0.8
0.6
0.4
0.2
0
−0.2

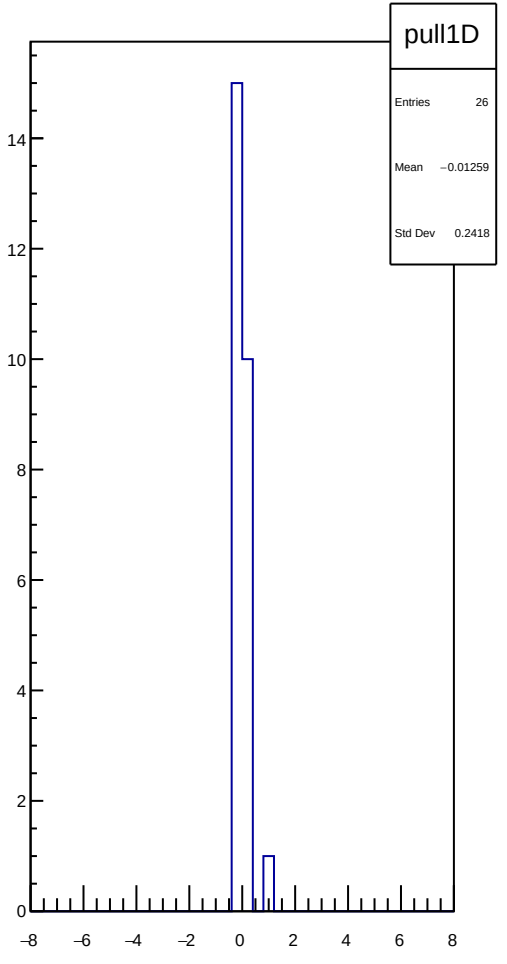

pull1D
Entries 26
Mean −0.01762
Std Dev 0.2352
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

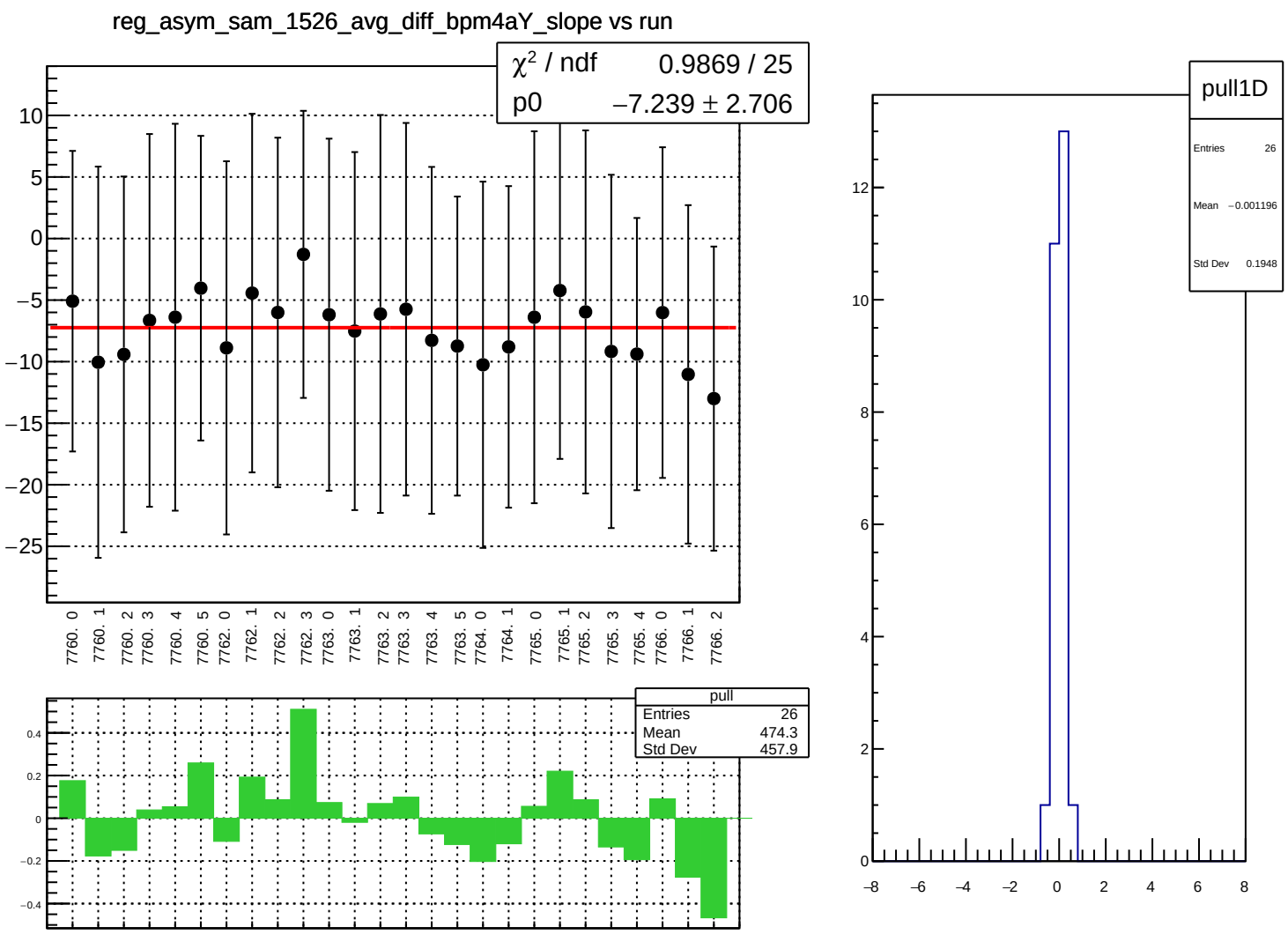

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.3671 / 25
p0 22.31 ± 7.508
60
40
20
0
−20
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −22.23
Std Dev 33.14
0.2
0.1
0
−0.1
−0.2
−0.3

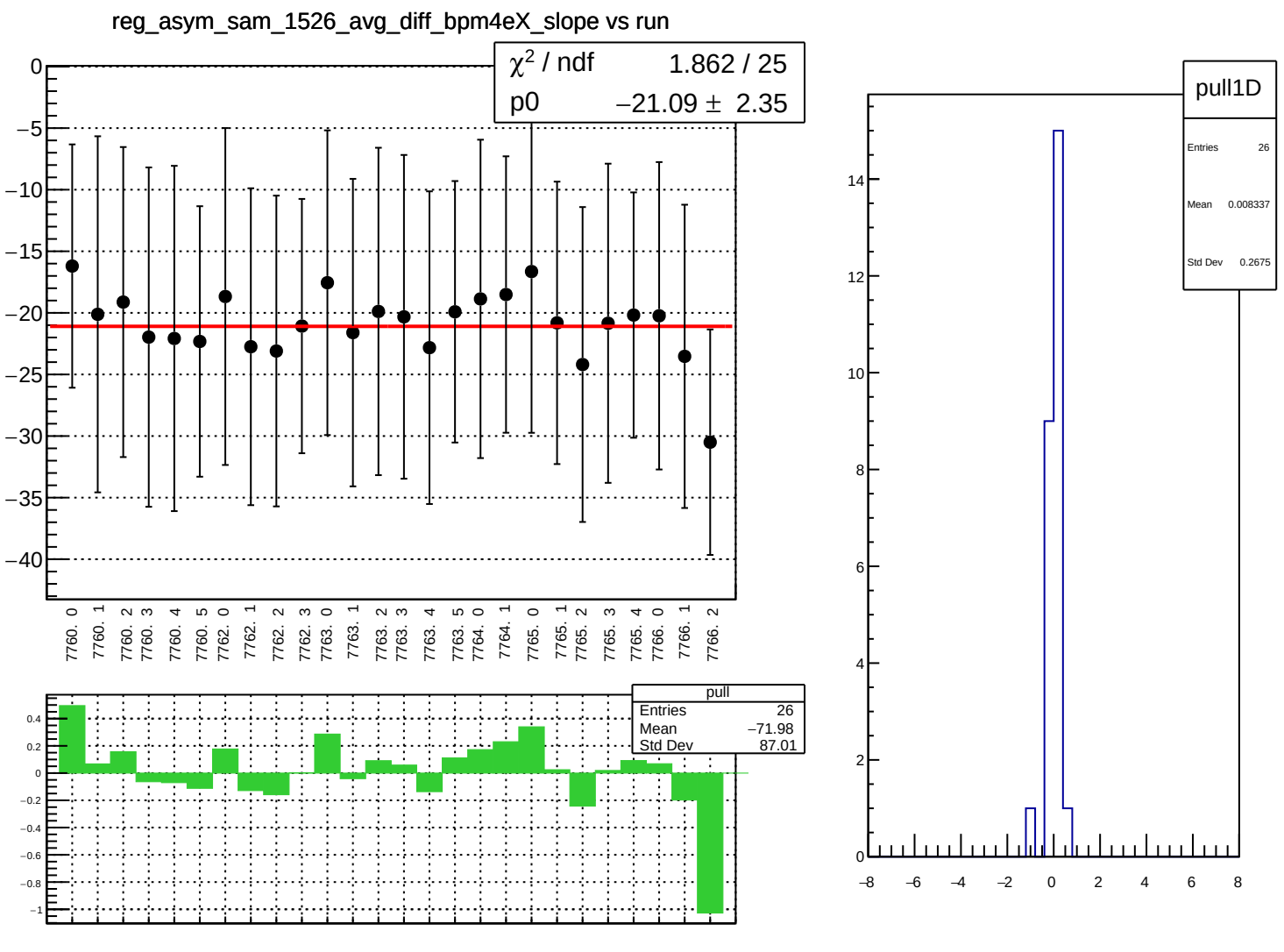

pull1D
Entries 26
Mean 0.004129
Std Dev 0.1187
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

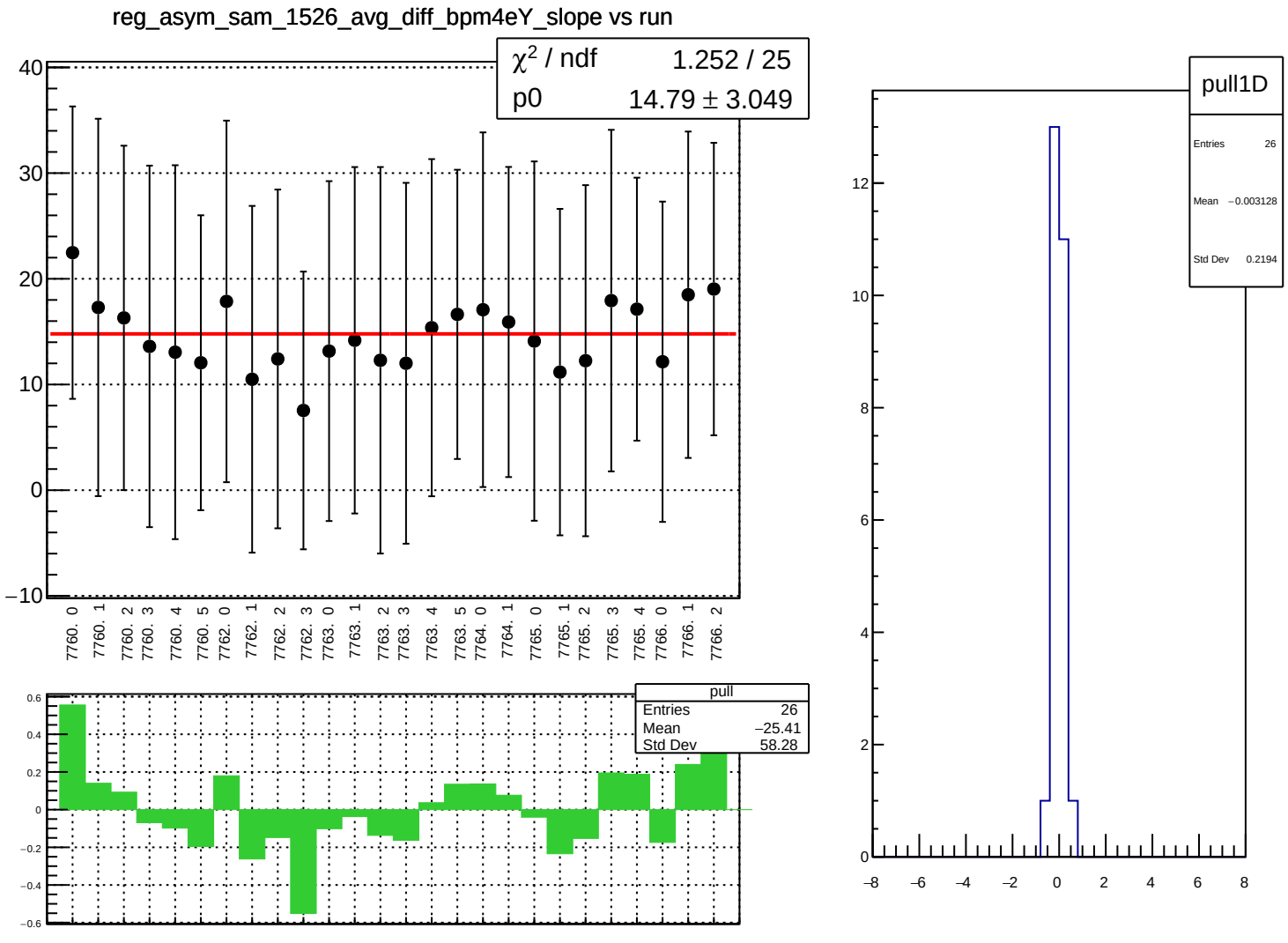

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 1.078 / 25
p0 −0.6067 ± 0.2059
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 26.38
Std Dev 26.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 26
Mean 0.003786
Std Dev 0.2036
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

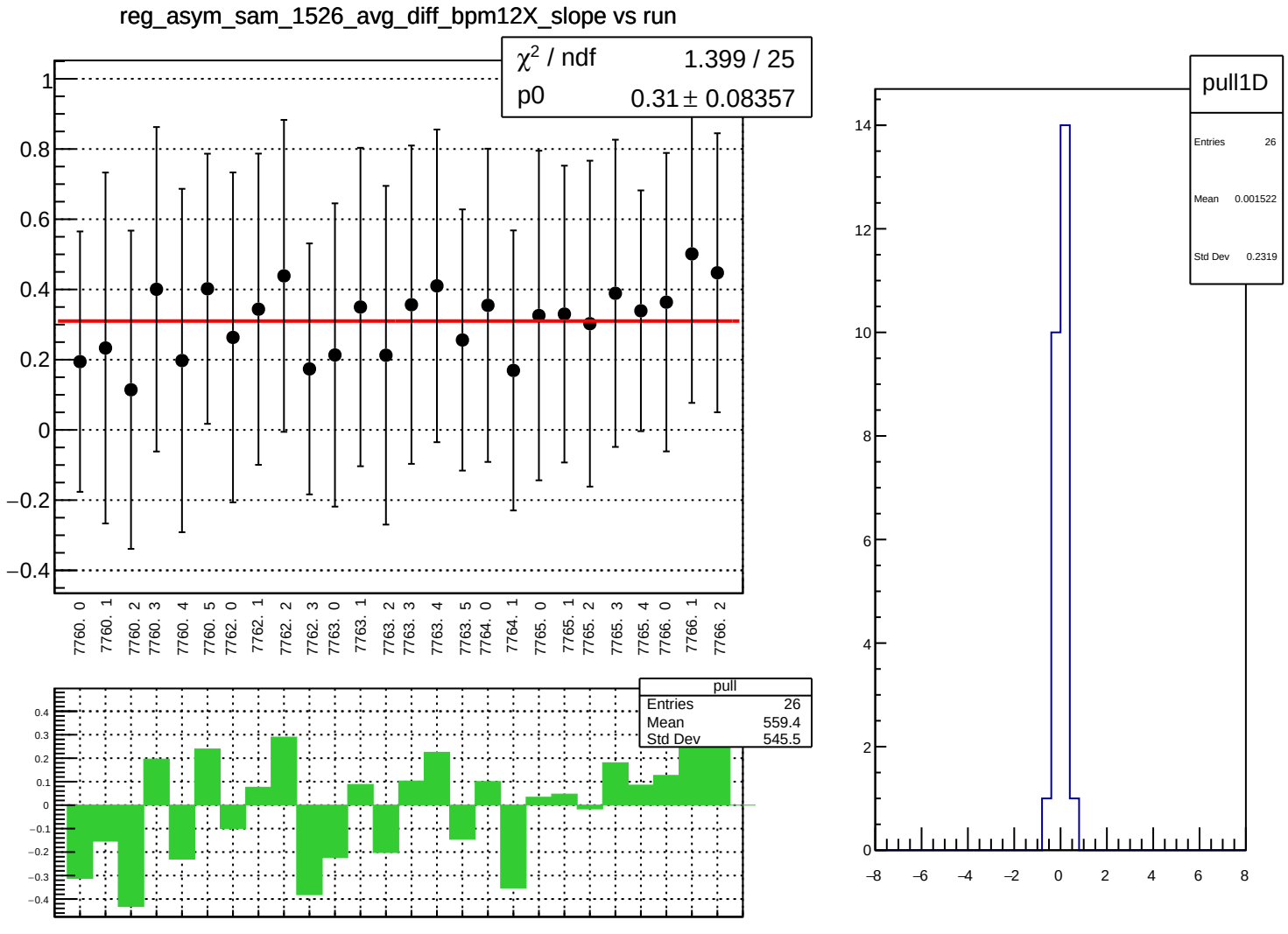

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 1.524 / 25
p0 −19.15 ± 2.536
0
−5
−10
−15
−20
−25
−30
−35
−40
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 4.73
Std Dev 22.01
0.8
0.6
0.4
0.2
0
−0.2
−0.4

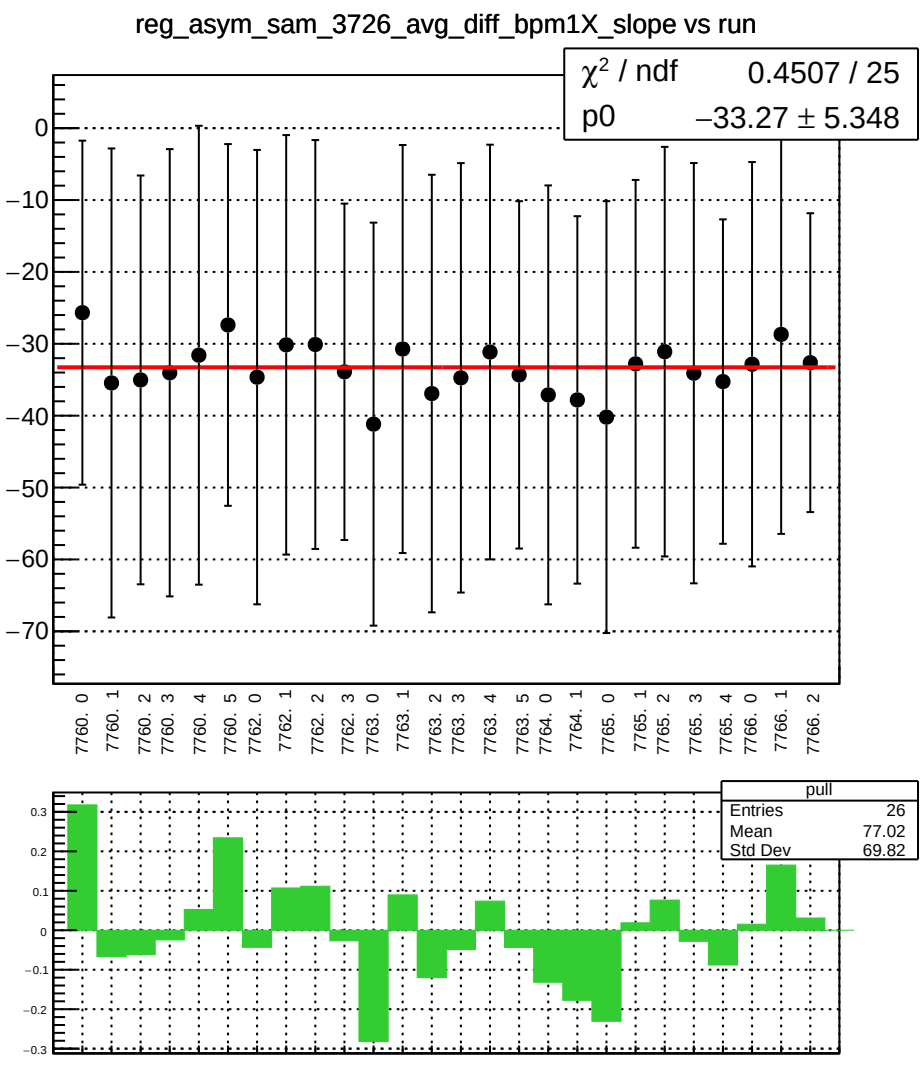

pull1D
Entries 26
Mean −0.01259
Std Dev 0.2418
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

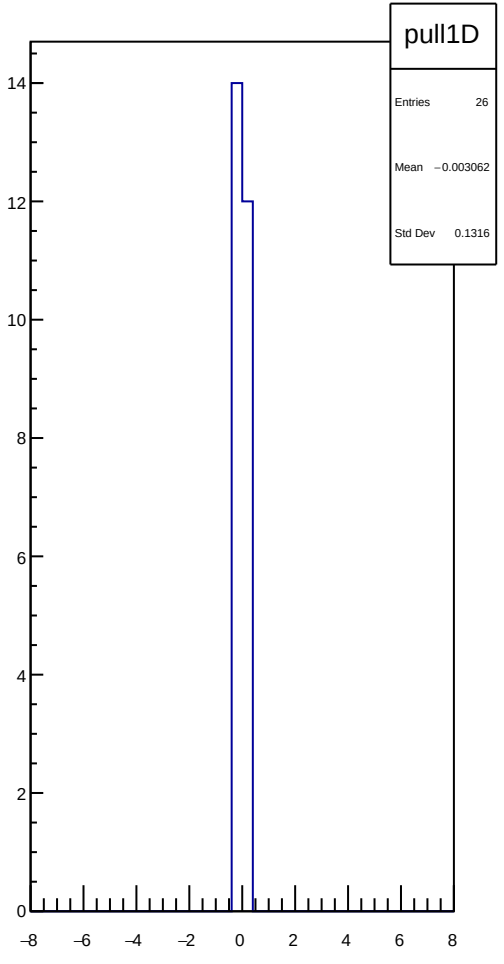

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.9869 / 25
p0 −7.239 ± 2.706
10
5
0
−5
−10
−15
−20
−25
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 474.3
Std Dev 457.9
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 26
Mean −0.001196
Std Dev 0.1948
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

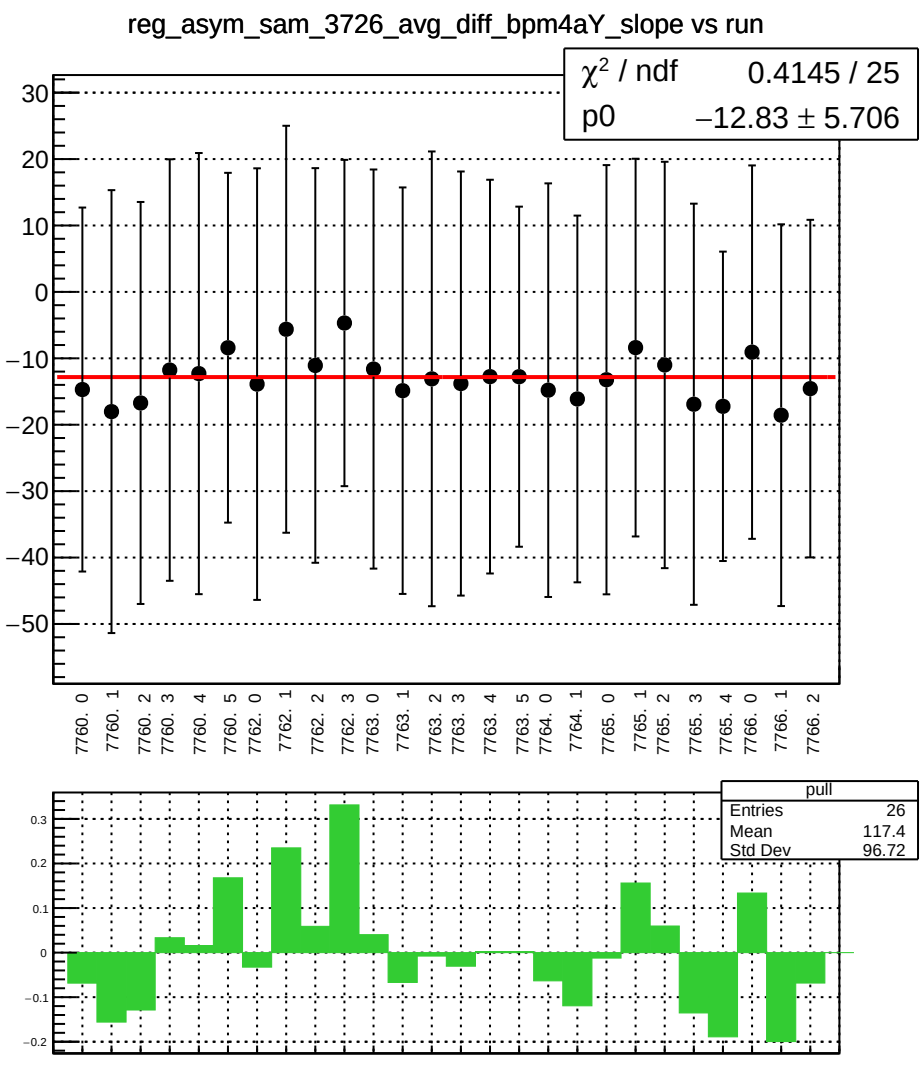

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.862 / 25
p0 −21.09 ± 2.35
0
−5
−10
−15
−20
−25
−30
−35
−40
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −71.98
Std Dev 87.01
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 26
Mean 0.008337
Std Dev 0.2675
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

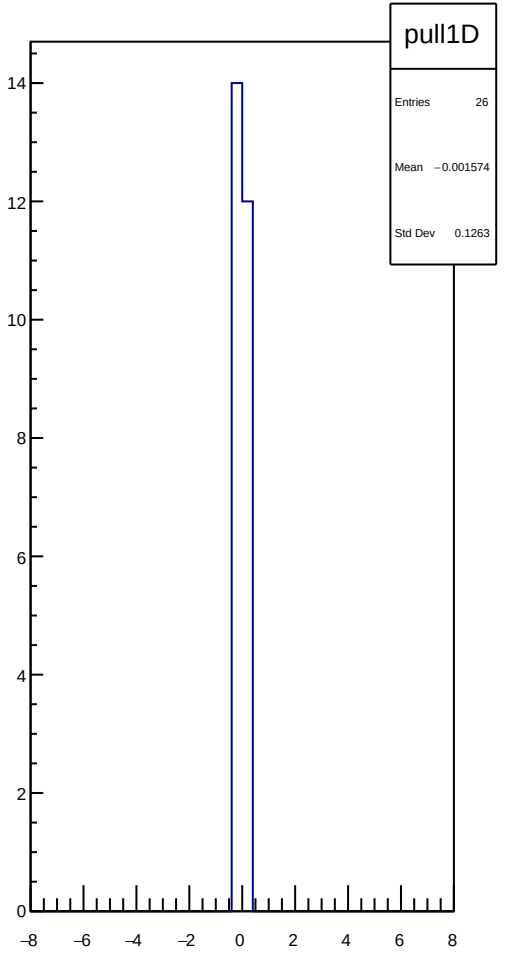

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.252 / 25
p0 14.79 ± 3.049
40
30
20
10
0
−10
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −25.41
Std Dev 58.28
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 26
Mean −0.003128
Std Dev 0.2194
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

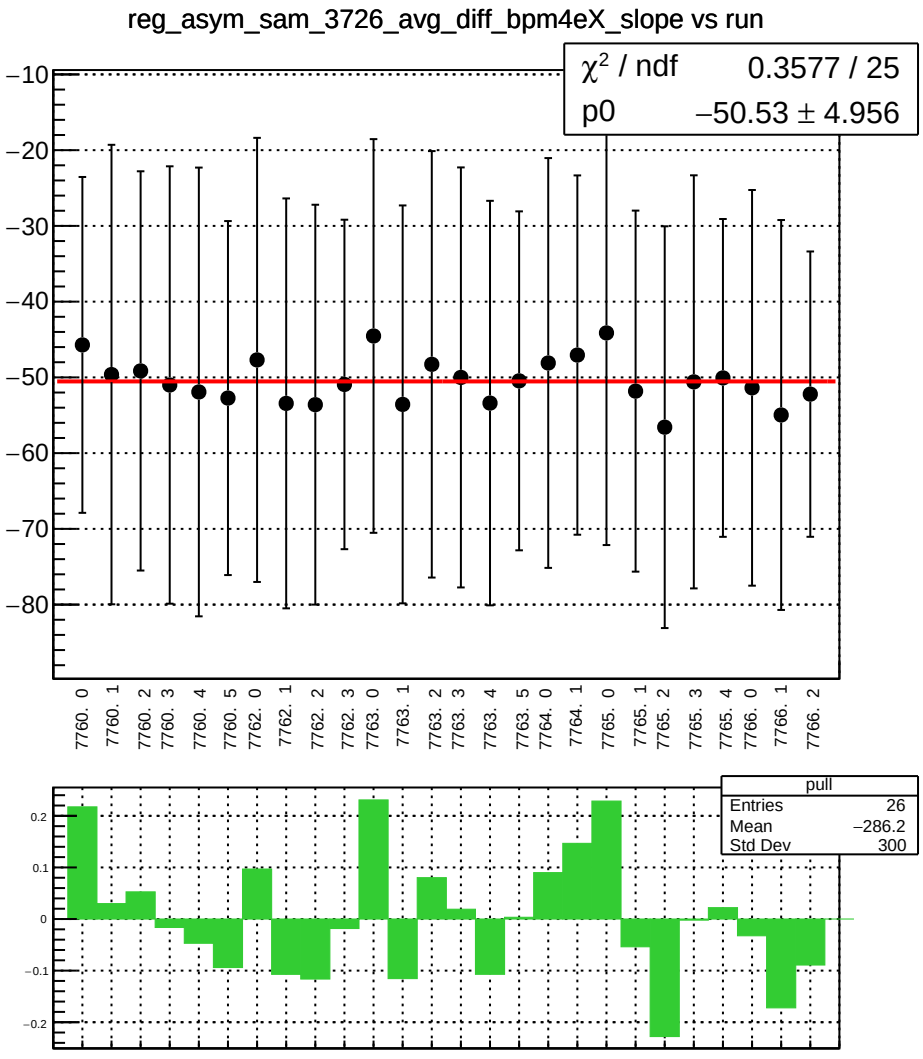

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 1.399 / 25
p0 0.31 ± 0.08357
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 559.4
Std Dev 545.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 26
Mean 0.001522
Std Dev 0.2319
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

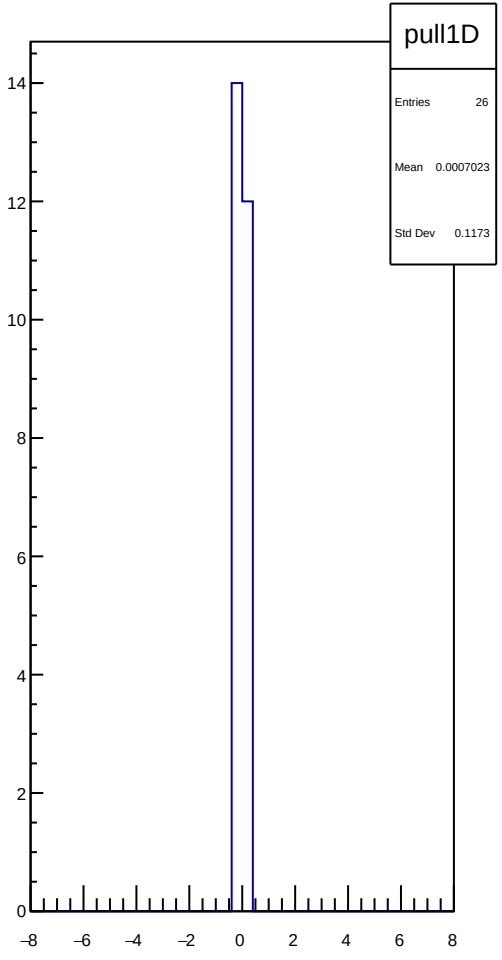

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 0.4507 / 25
p0 −33.27 ± 5.348
0
−10
−20
−30
−40
−50
−60
−70
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 77.02
Std Dev 69.82
0.3
0.2
0.1
0
−0.1
−0.2
−0.3


pull1D
Entries 26
Mean −0.003062
Std Dev 0.1316
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 0.4145 / 25
p0 −12.83 ± 5.706
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
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 117.4
Std Dev 96.72
0.3
0.2
0.1
0
−0.1
−0.2


pull1D
Entries 26
Mean −0.001574
Std Dev 0.1263
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 0.3577 / 25
p0 −50.53 ± 4.956
−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
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −286.2
Std Dev 300
0.2
0.1
0
−0.1
−0.2


pull1D
Entries 26
Mean 0.0007023
Std Dev 0.1173
14
12
10
8
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−6
−4
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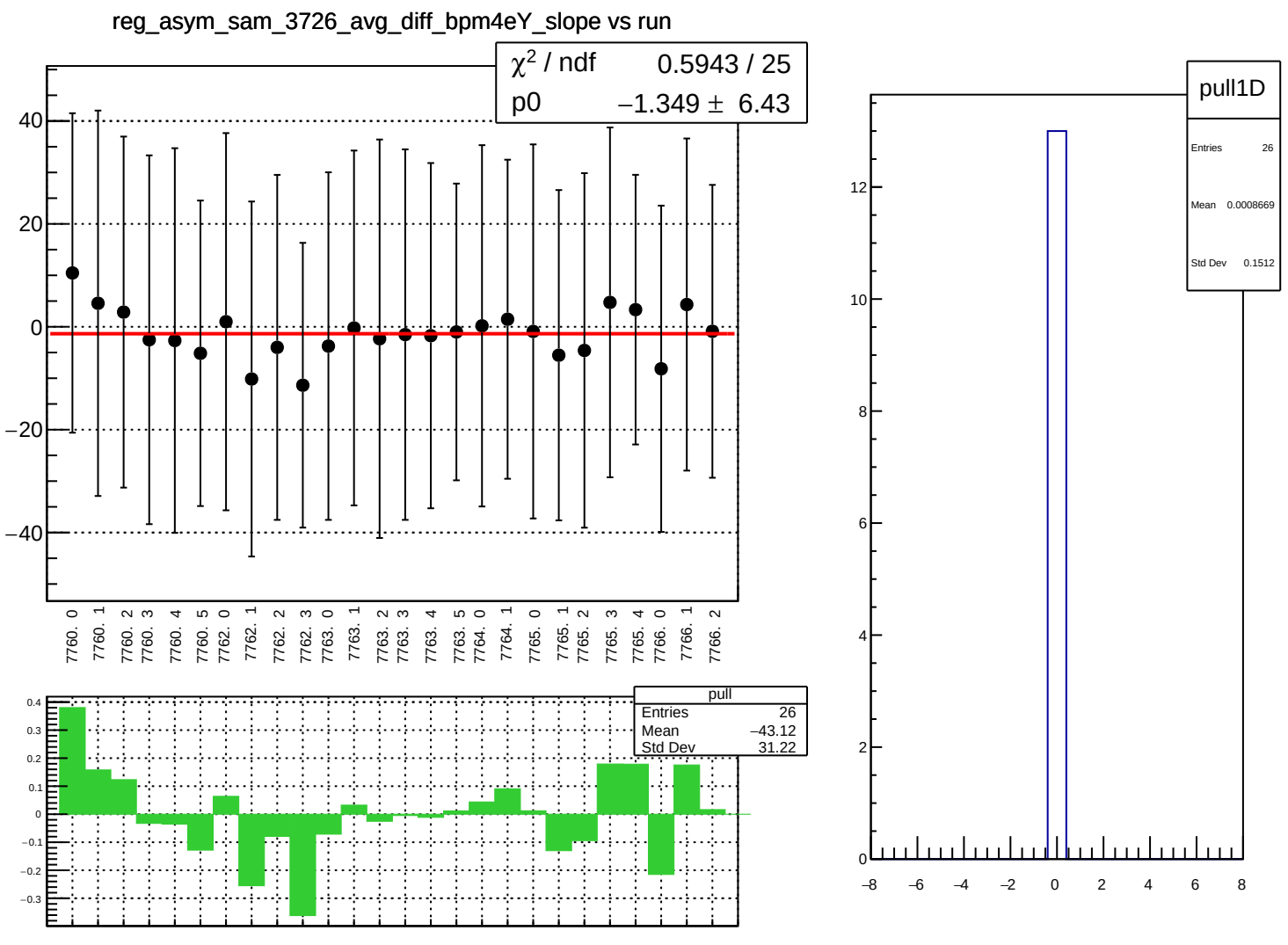
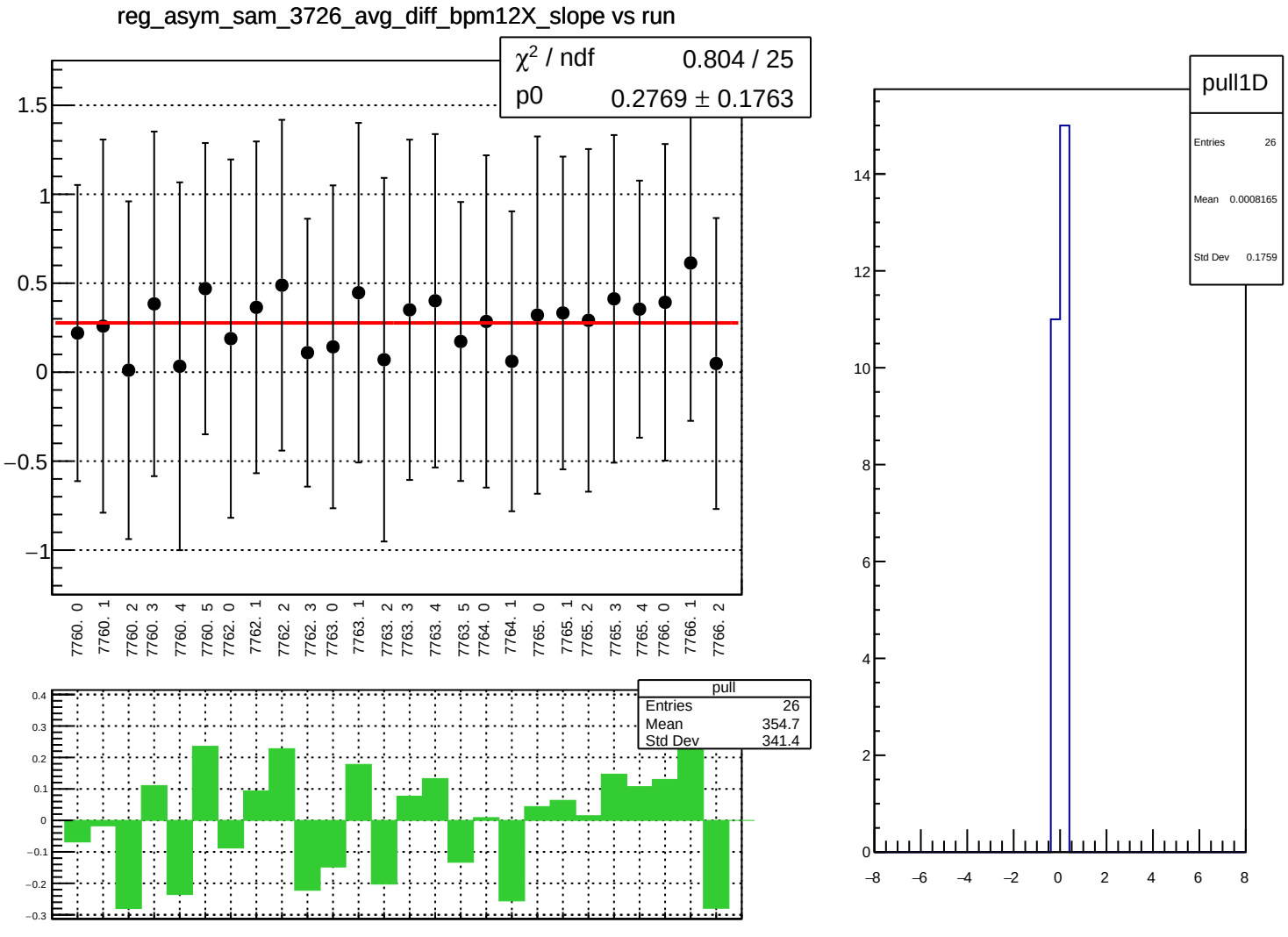
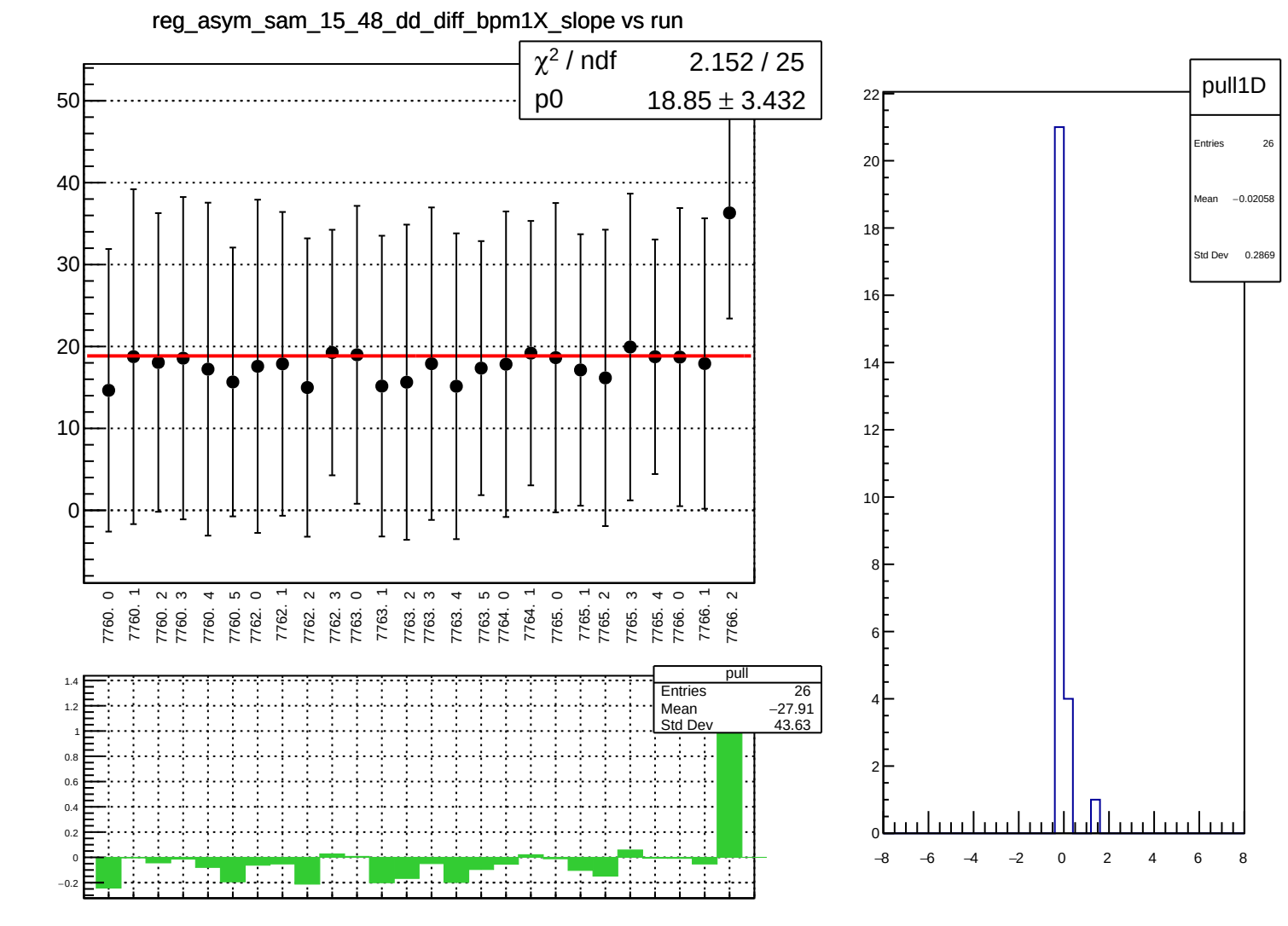
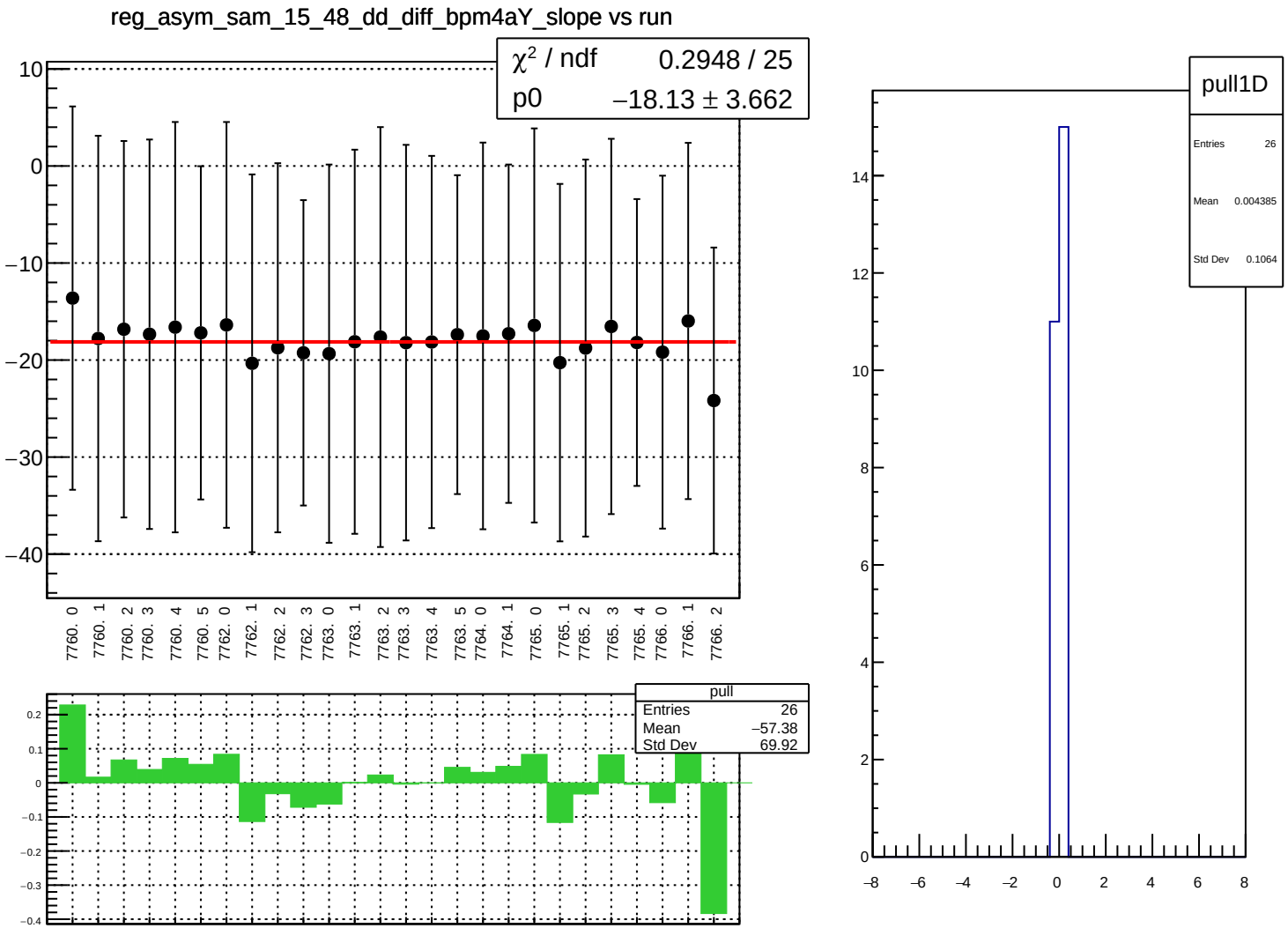
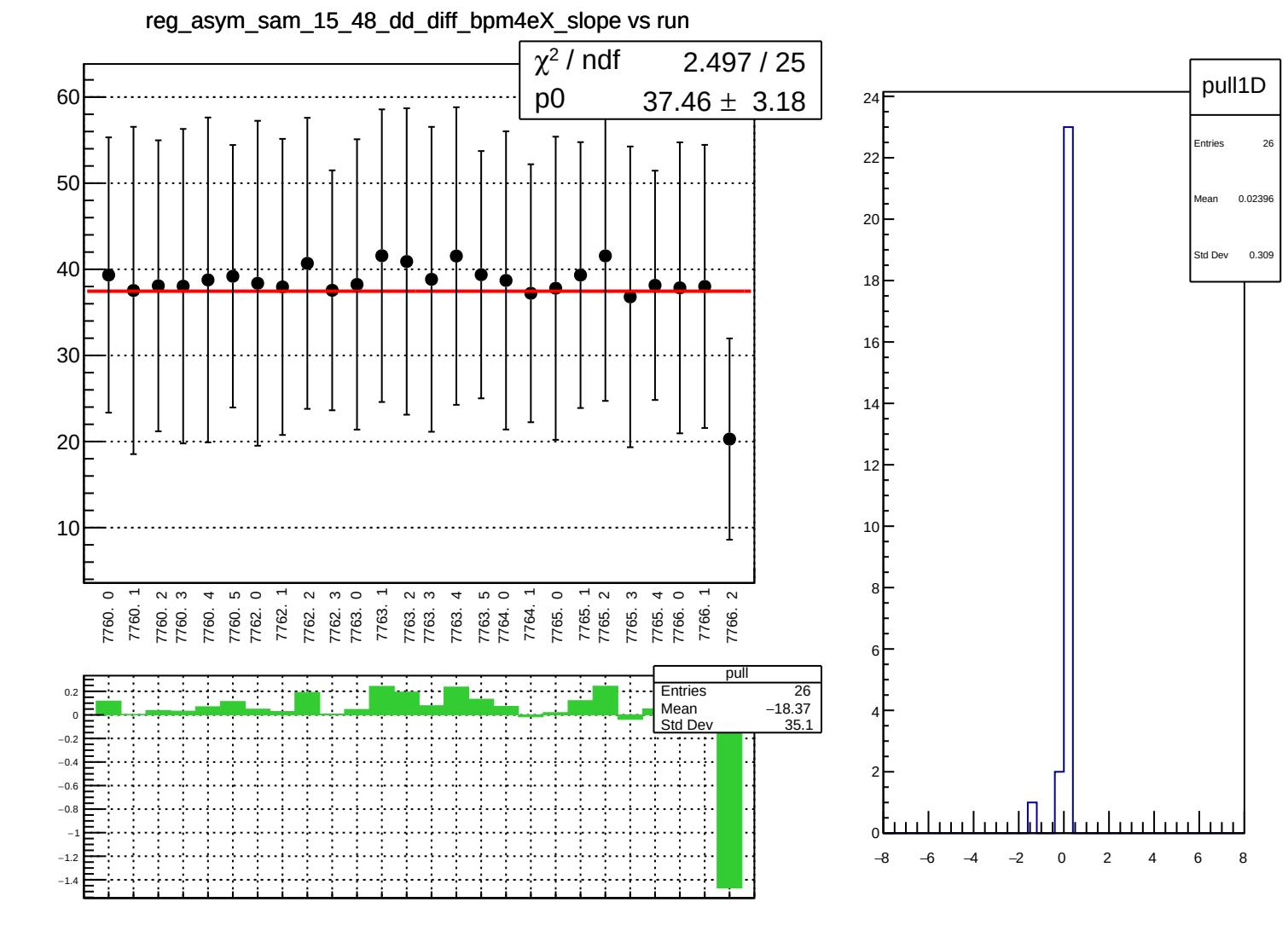
4
6
8

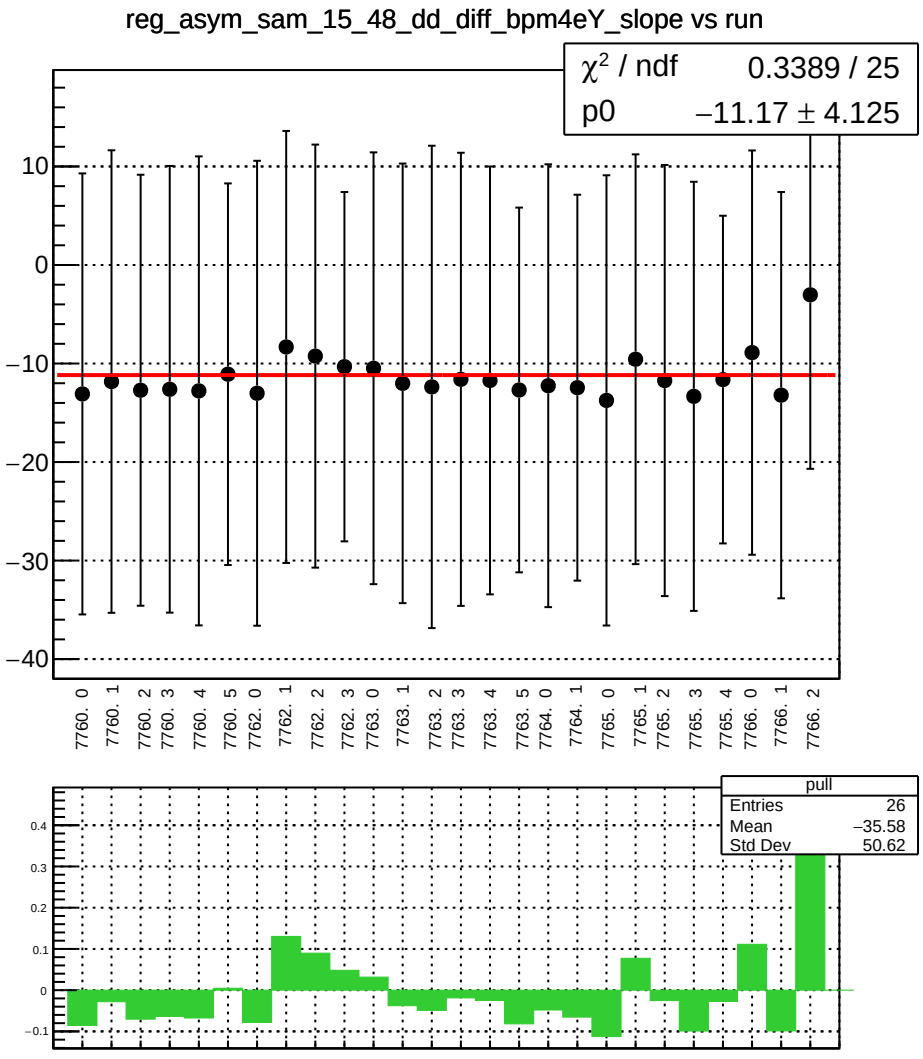

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.5943 / 25
p0 −1.349 ± 6.43
40
20
0
−20
−40
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −43.12
Std Dev 31.22
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 26
Mean 0.0008669
Std Dev 0.1512
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

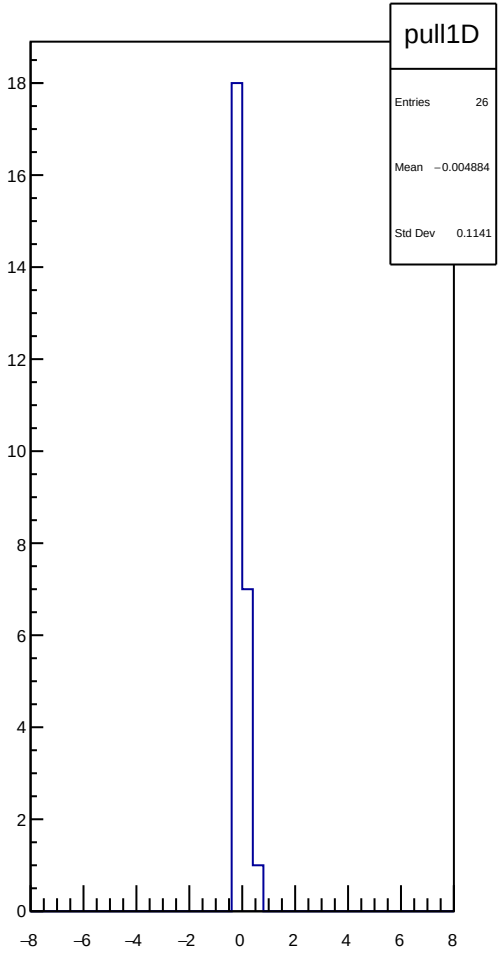

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 0.804 / 25
p0 0.2769 ± 0.1763
1.5
1
0.5
0
−0.5
−1
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 354.7
Std Dev 341.4
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 26
Mean 0.0008165
Std Dev 0.1759
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

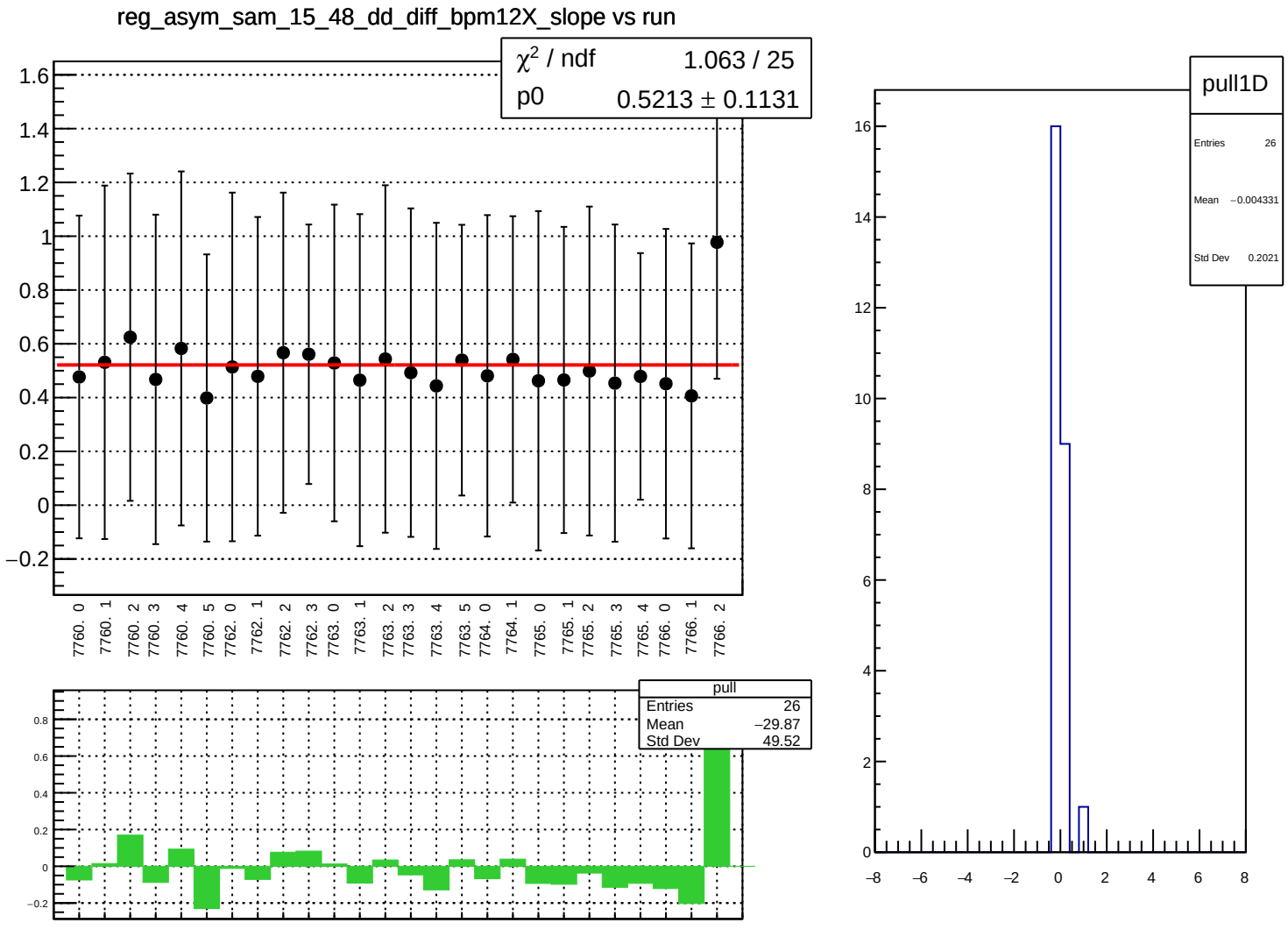

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 2.152 / 25
p0 18.85 ± 3.432
50
40
30
20
10
0
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −27.91
Std Dev 43.63
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
pull1D
Entries 26
Mean −0.02058
Std Dev 0.2869
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

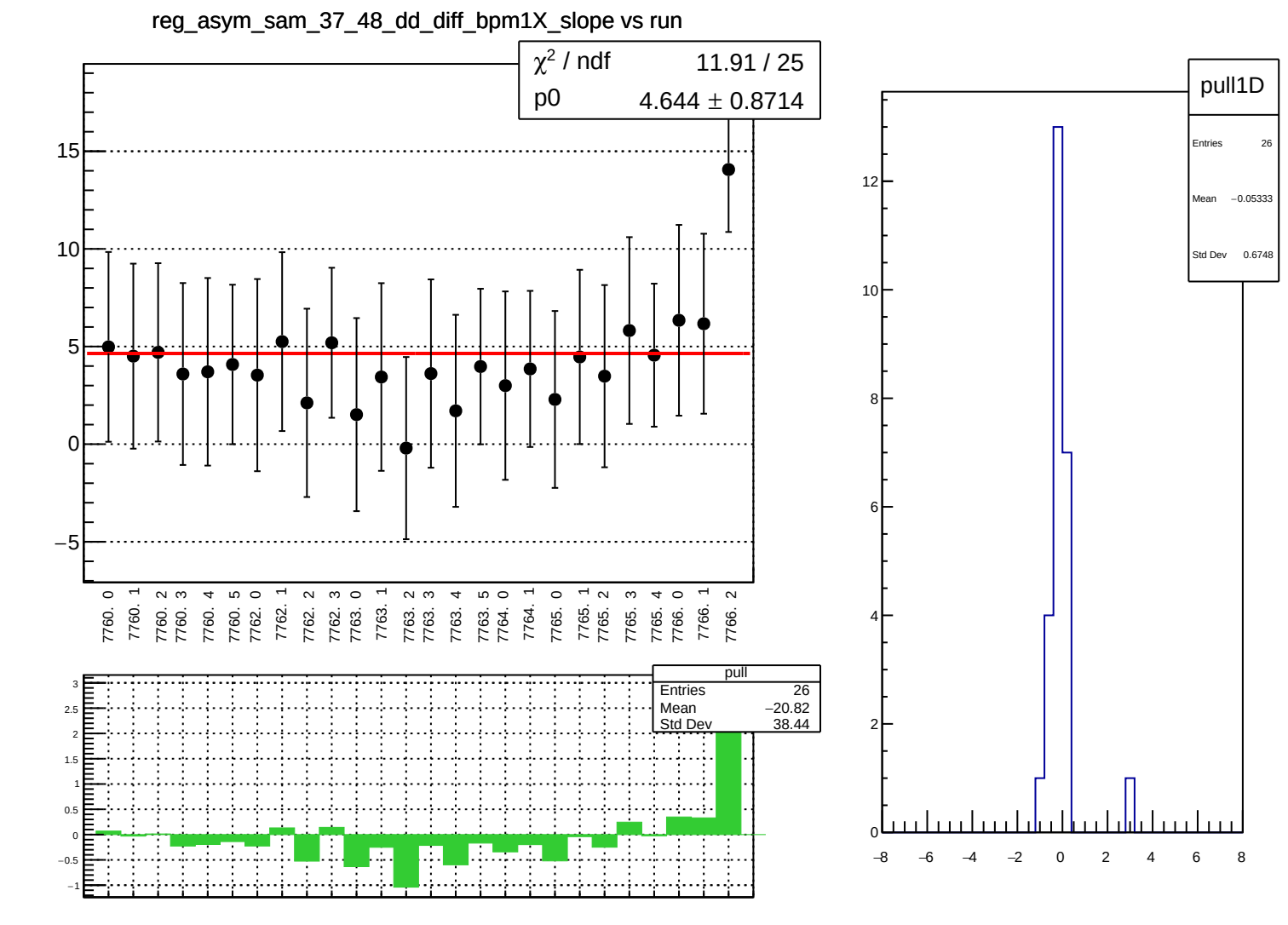

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.2948 / 25
p0 −18.13 ± 3.662
10
0
−10
−20
−30
−40
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −57.38
Std Dev 69.92
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 26
Mean 0.004385
Std Dev 0.1064
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

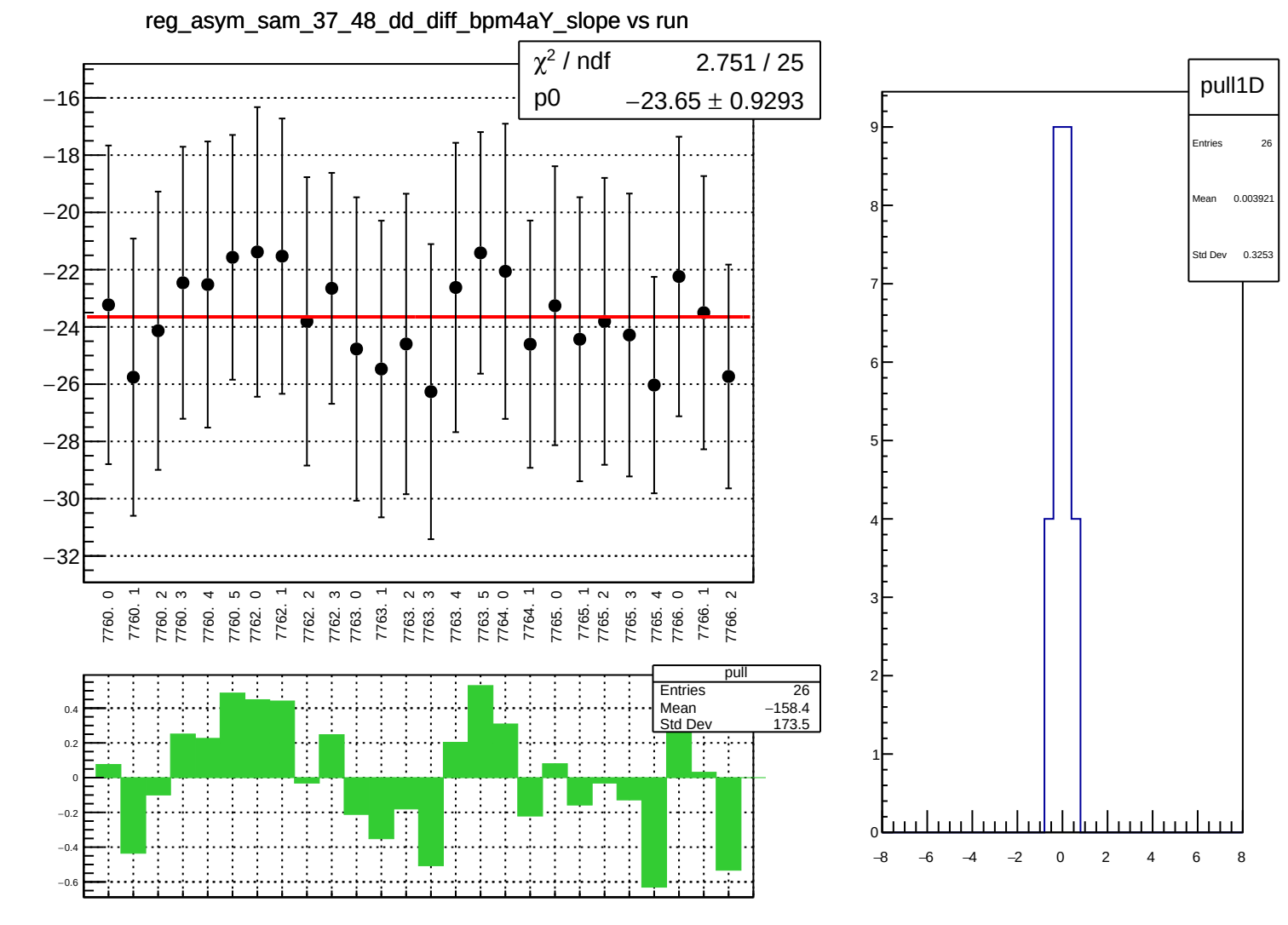

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.497 / 25
p0 37.46 ± 3.18
60
50
40
30
20
10
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −18.37
Std Dev 35.1
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4
pull1D
Entries 26
Mean 0.02396
Std Dev 0.309
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

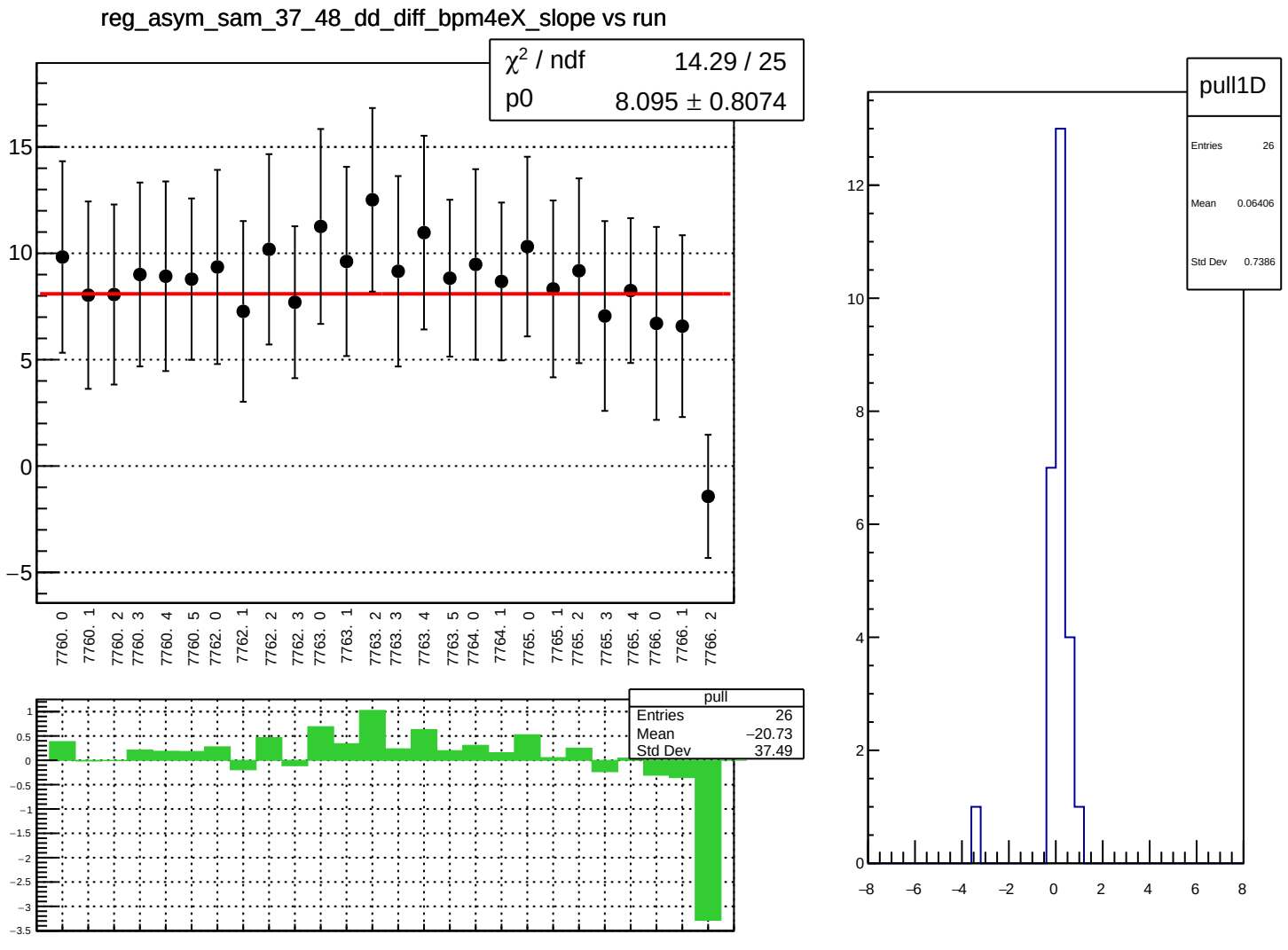

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.3389 / 25
p0 −11.17 ± 4.125
10
0
−10
−20
−30
−40
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −35.58
Std Dev 50.62
0.4
0.3
0.2
0.1
0
−0.1

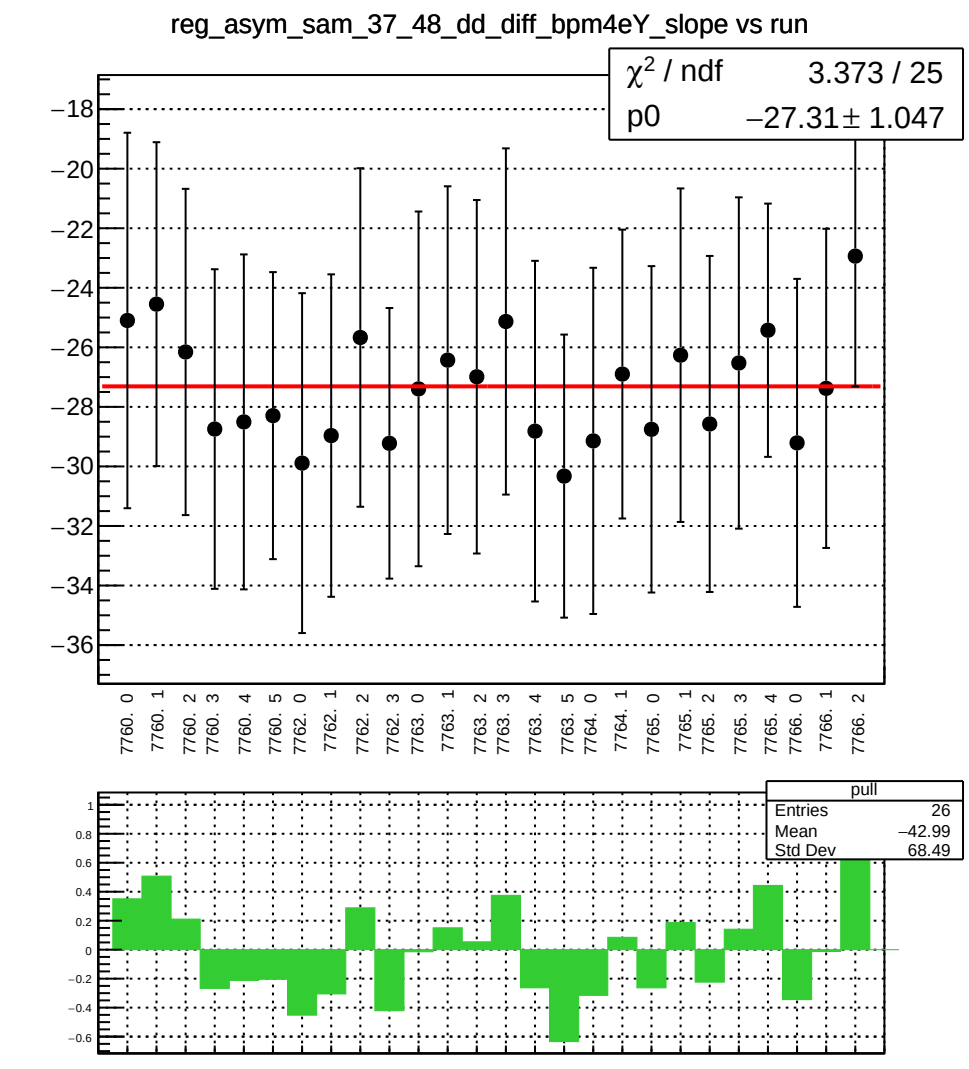

pull1D
Entries 26
Mean −0.004884
Std Dev 0.1141
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

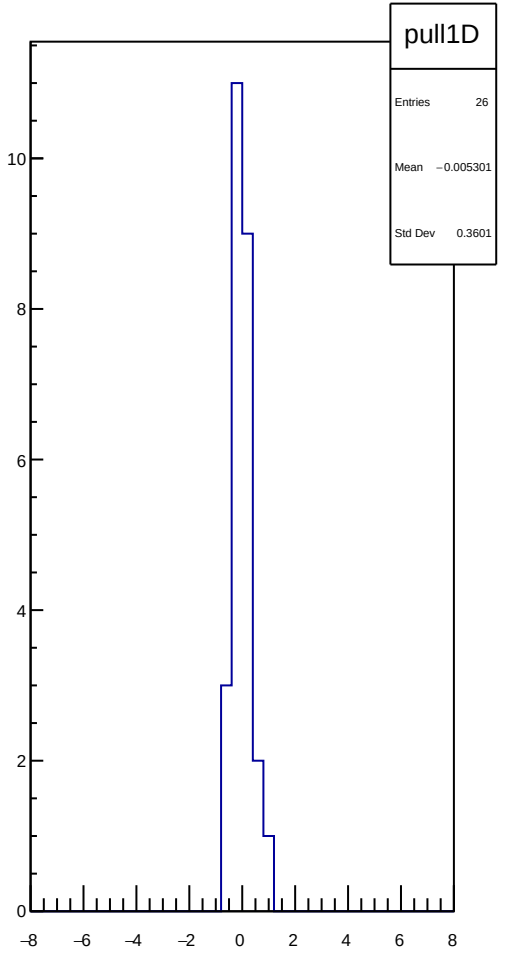

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 1.063 / 25
p0 0.5213 ± 0.1131
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −29.87
Std Dev 49.52
0.8
0.6
0.4
0.2
0
−0.2
pull1D
Entries 26
Mean −0.004331
Std Dev 0.2021
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

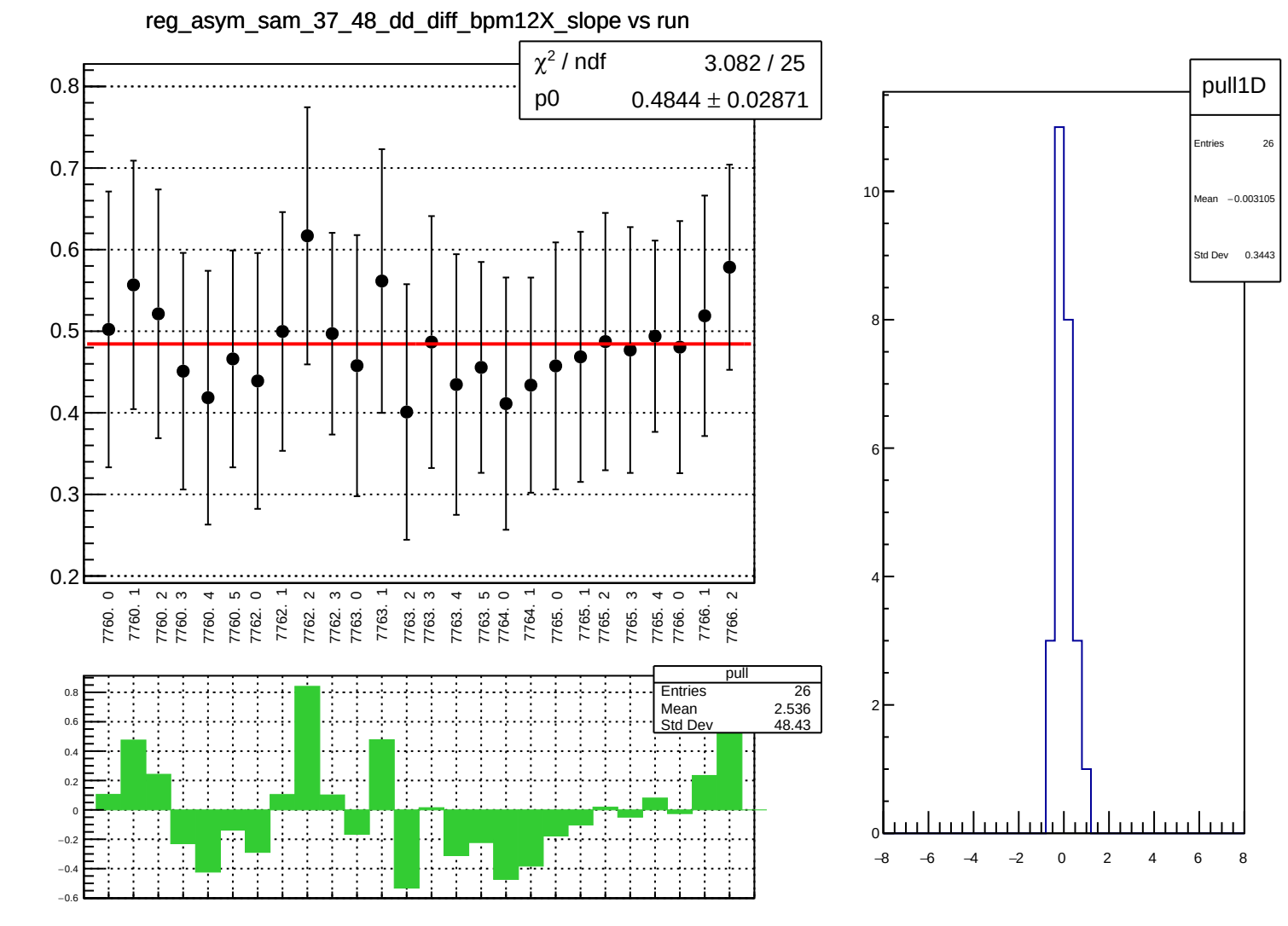

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 11.91 / 25
p0 4.644 ± 0.8714
15
10
5
0
−5
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −20.82
Std Dev 38.44
3
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 26
Mean −0.05333
Std Dev 0.6748
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

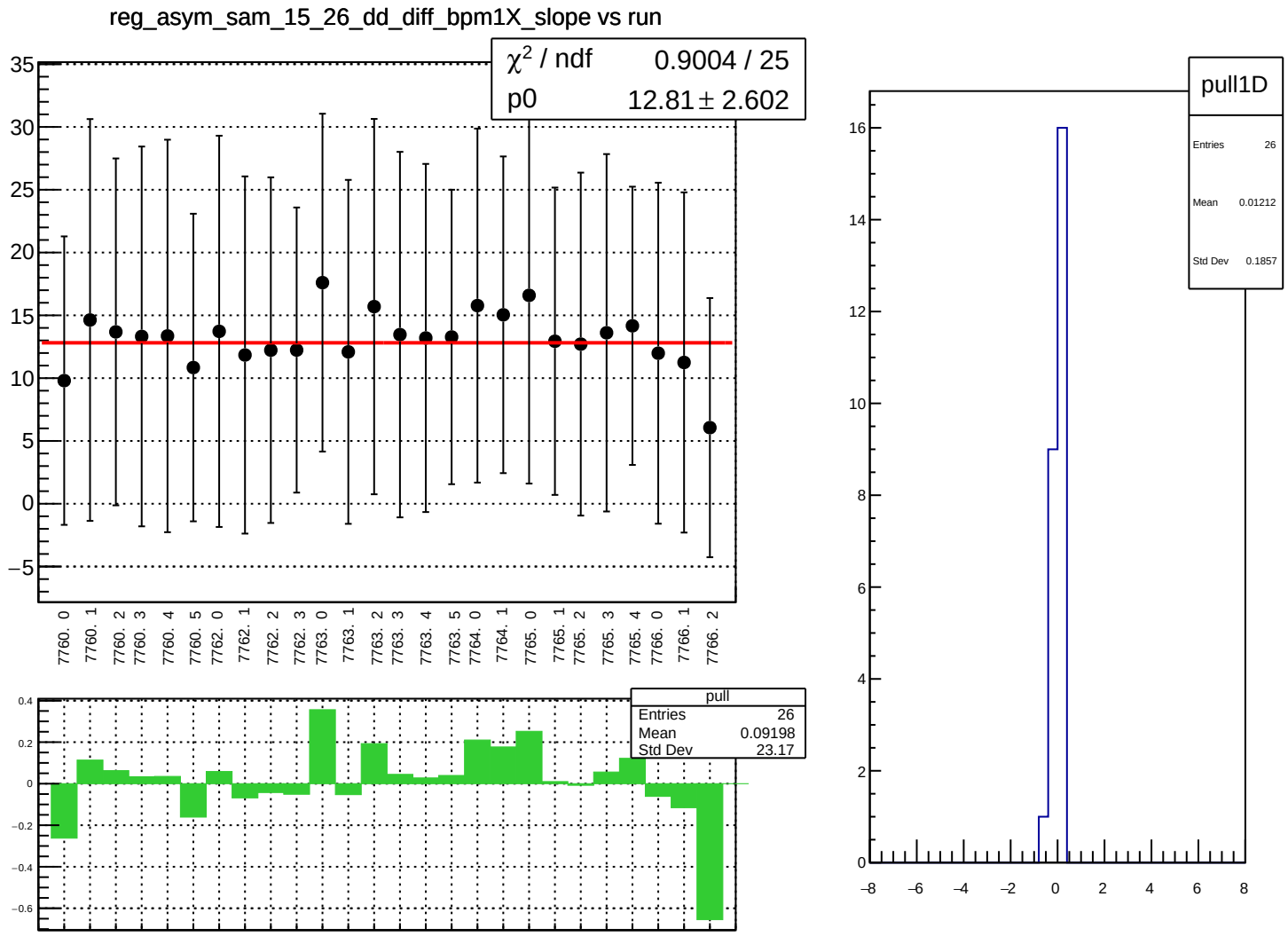

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.751 / 25
p0 −23.65 ± 0.9293
−16
−18
−20
−22
−24
−26
−28
−30
−32
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −158.4
Std Dev 173.5
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 26
Mean 0.003921
Std Dev 0.3253
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 14.29 / 25
p0 8.095 ± 0.8074
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
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −20.73
Std Dev 37.49
pull1D
Entries 26
Mean 0.06406
Std Dev 0.7386


reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.373 / 25
p0 −27.31 ± 1.047
−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
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −42.99
Std Dev 68.49
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6


pull1D
Entries 26
Mean −0.005301
Std Dev 0.3601
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 3.082 / 25
p0 0.4844 ± 0.02871
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
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 2.536
Std Dev 48.43
pull1D
Entries 26
Mean −0.003105
Std Dev 0.3443
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 0.9004 / 25
p0 12.81 ± 2.602
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
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 0.09198
Std Dev 23.17
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 26
Mean 0.01212
Std Dev 0.1857
16
14
12
10
8
6
4
2
0
−8
−6
−4
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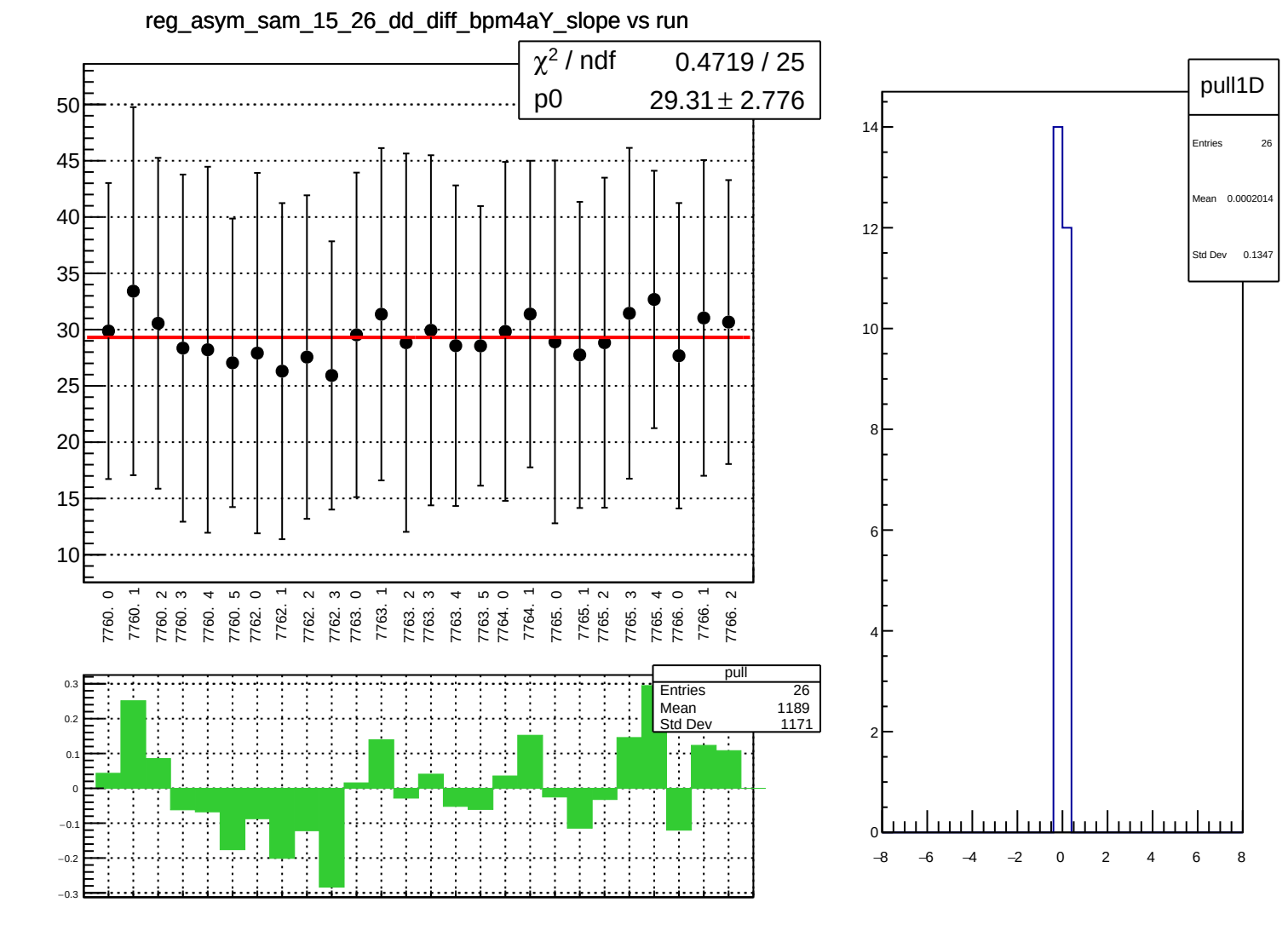
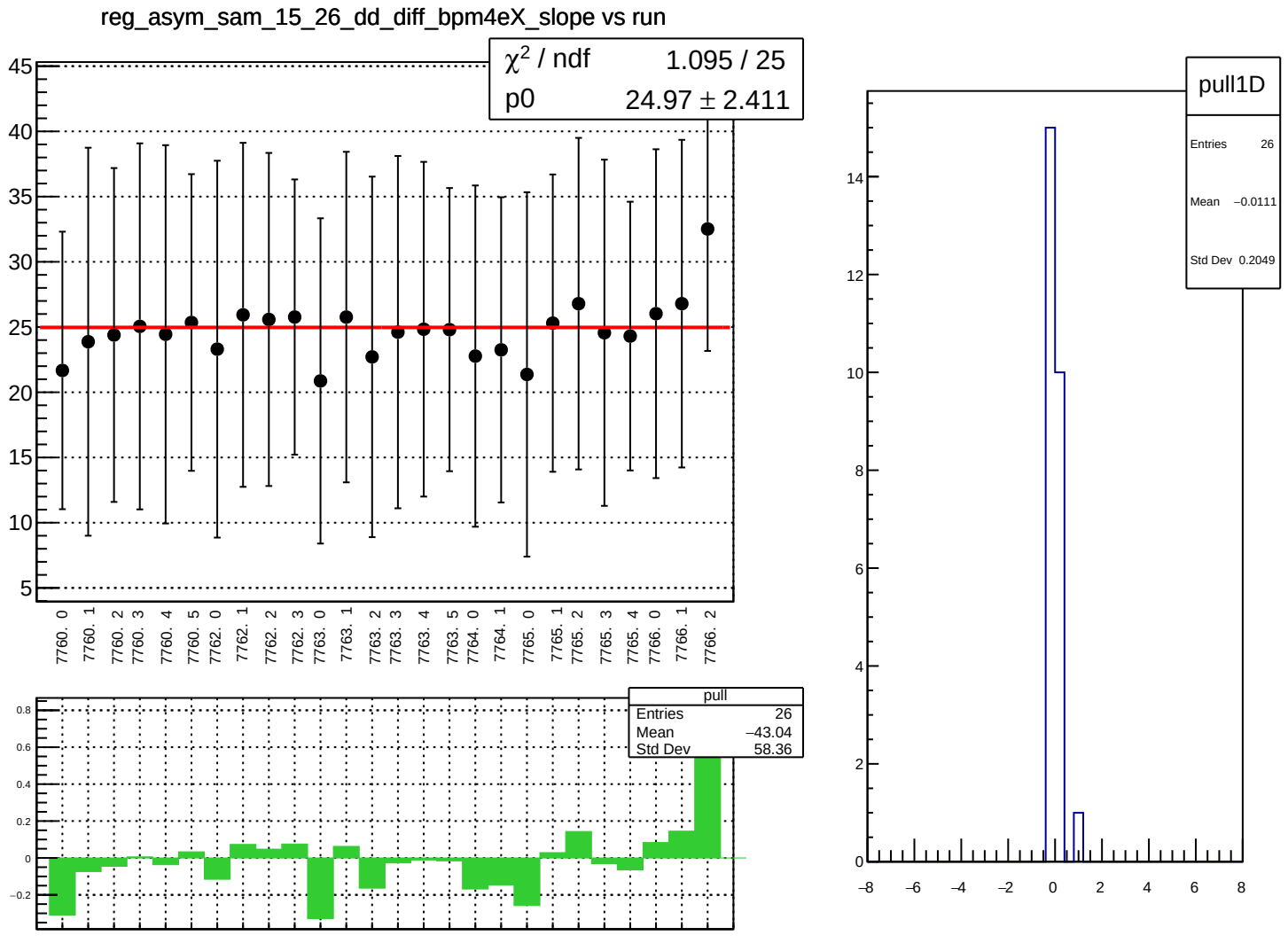
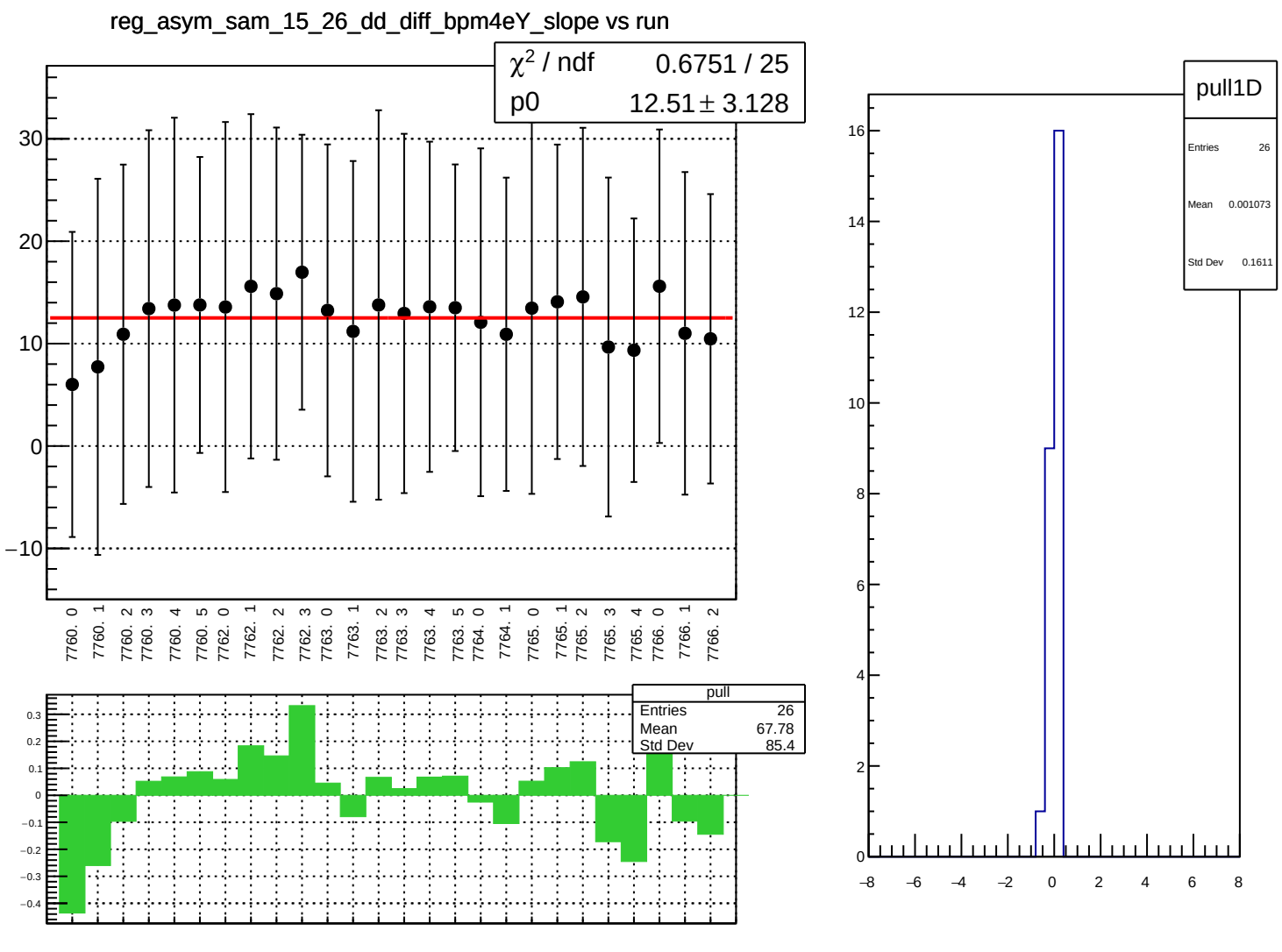
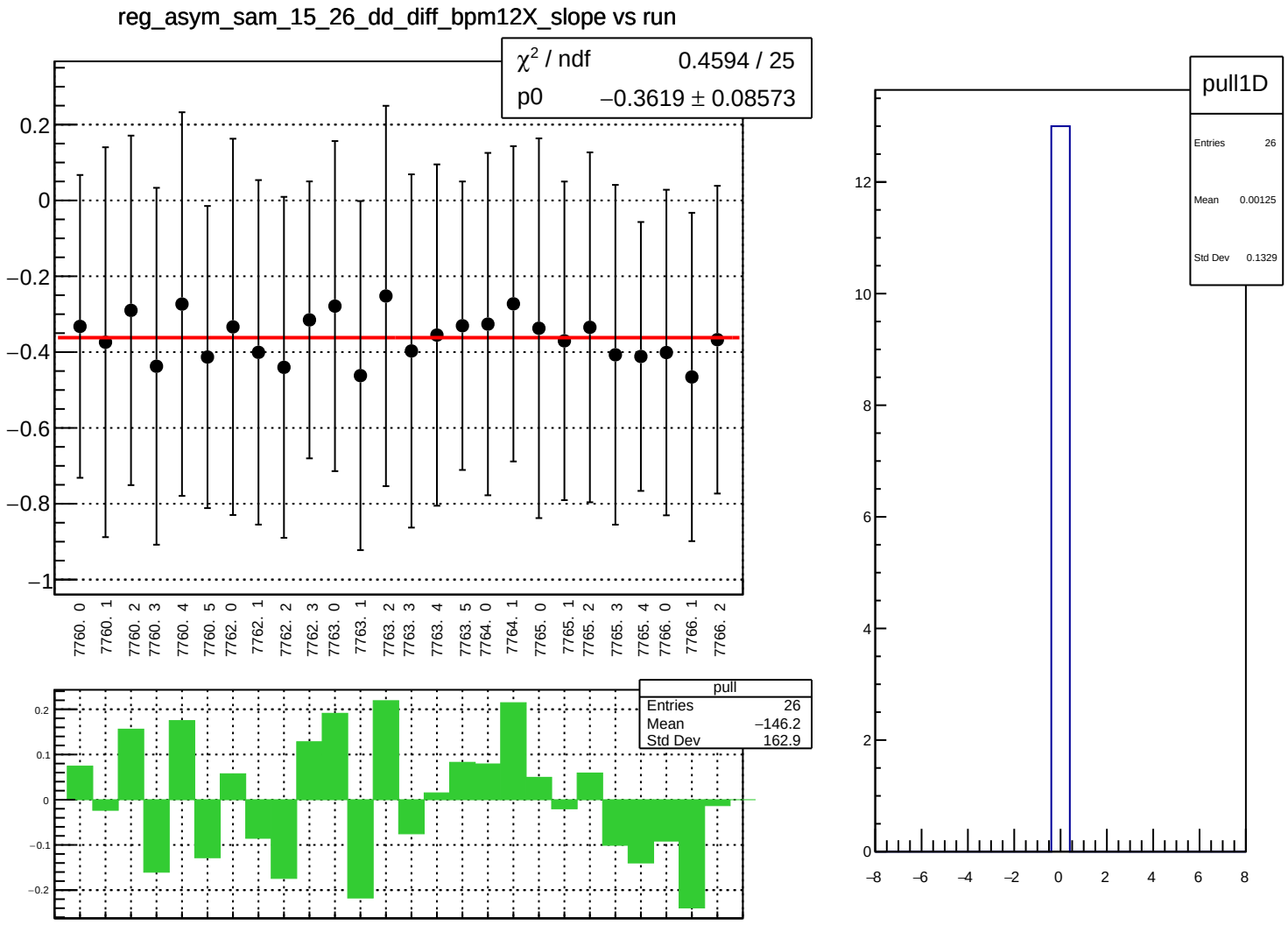
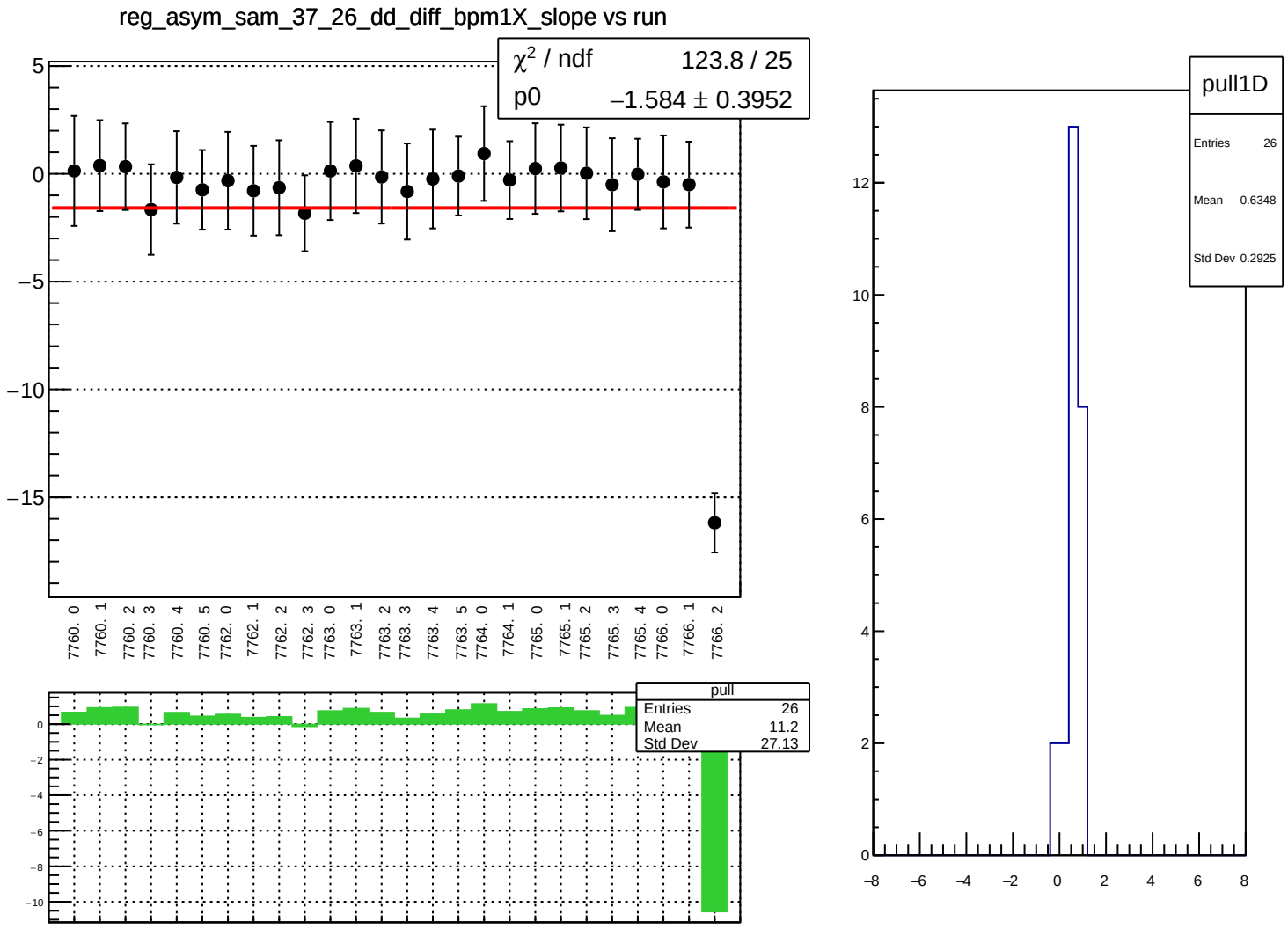
0
2
4
6
8

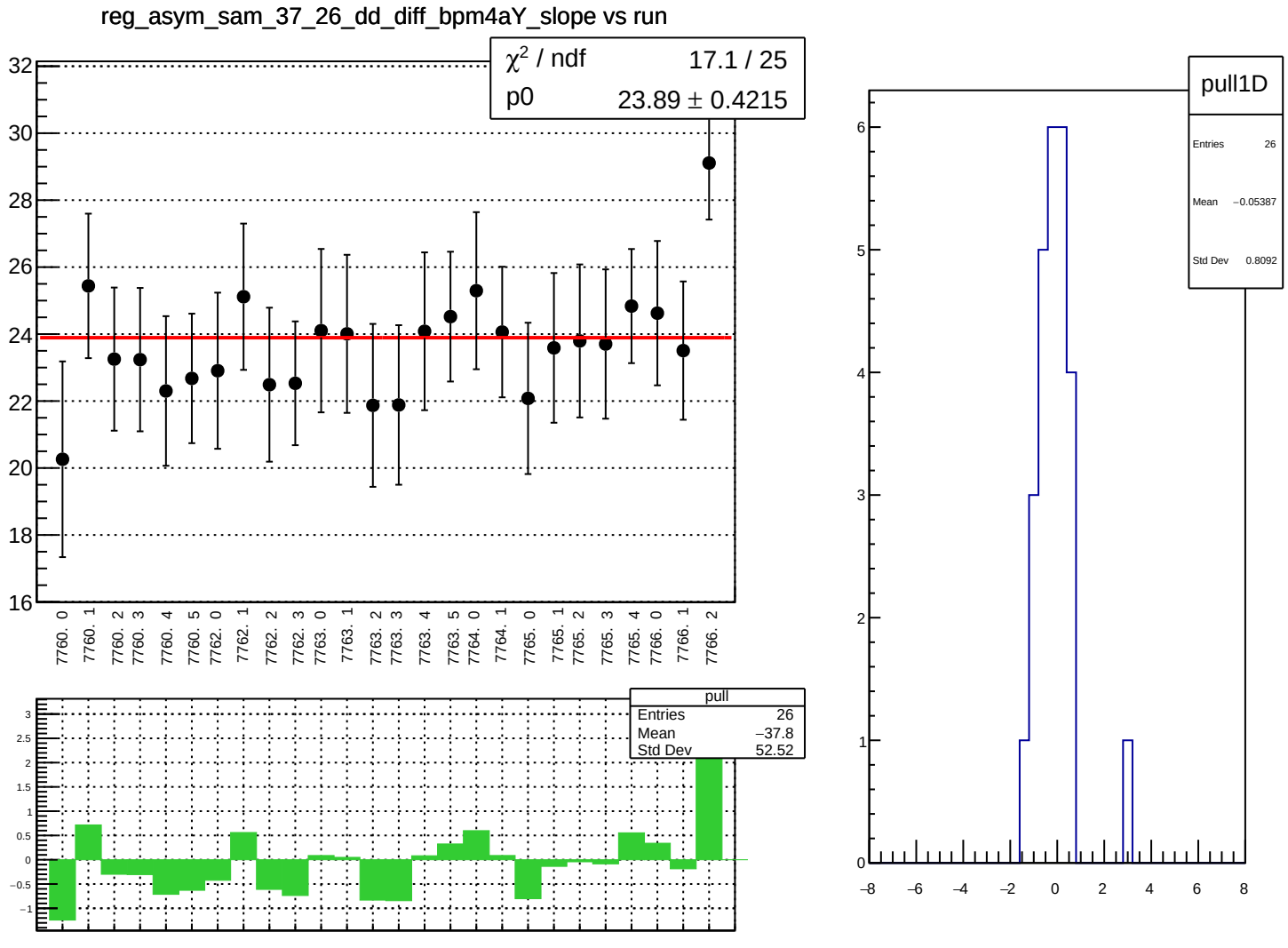

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.4719 / 25
p0 29.31 ± 2.776
50
45
40
35
30
25
20
15
10
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 1189
Std Dev 1171
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 26
Mean 0.0002014
Std Dev 0.1347
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

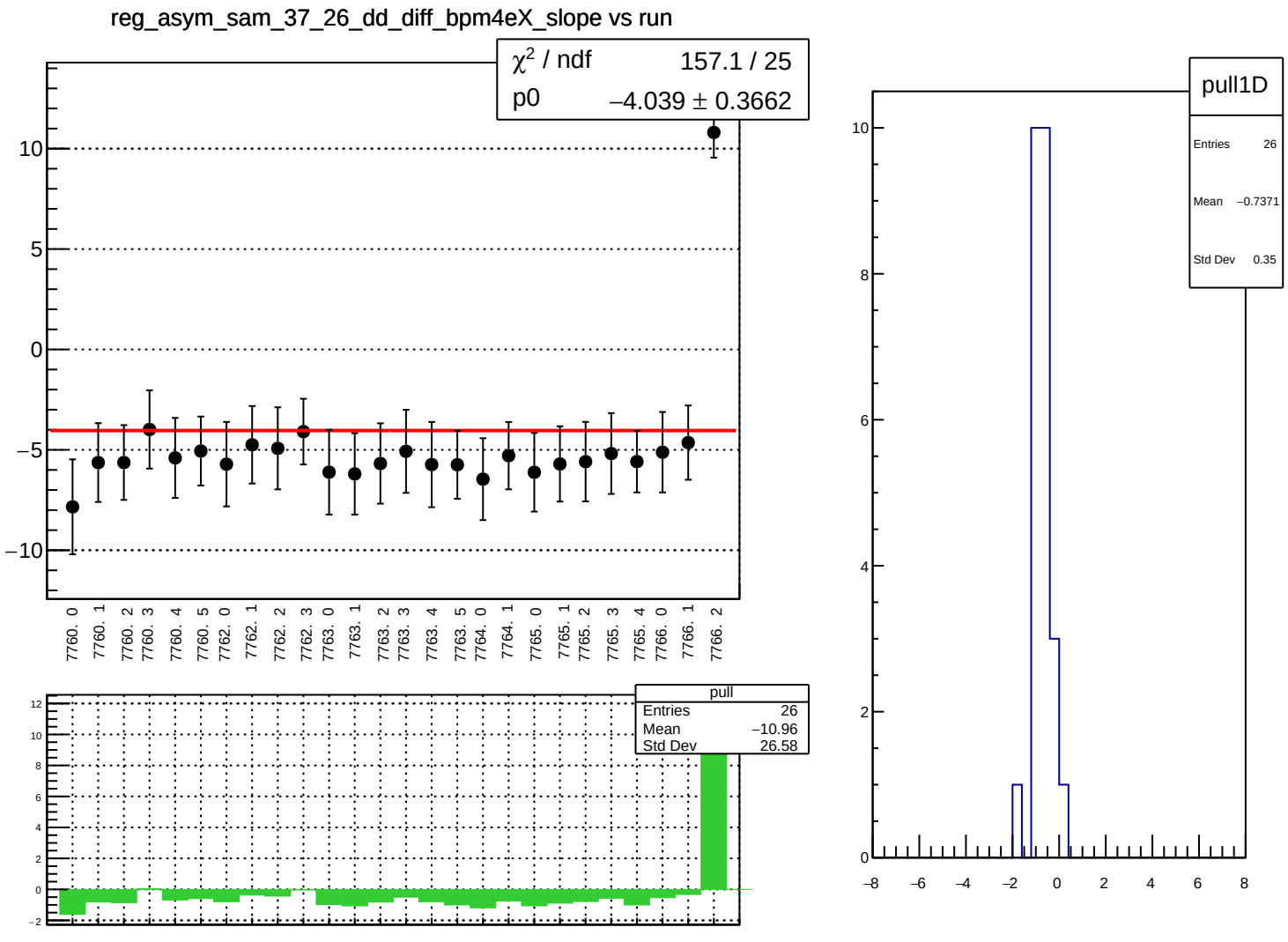

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.095 / 25
p0 24.97 ± 2.411
45
40
35
30
25
20
15
10
5
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −43.04
Std Dev 58.36
0.8
0.6
0.4
0.2
0
−0.2
pull1D
Entries 26
Mean −0.0111
Std Dev 0.2049
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

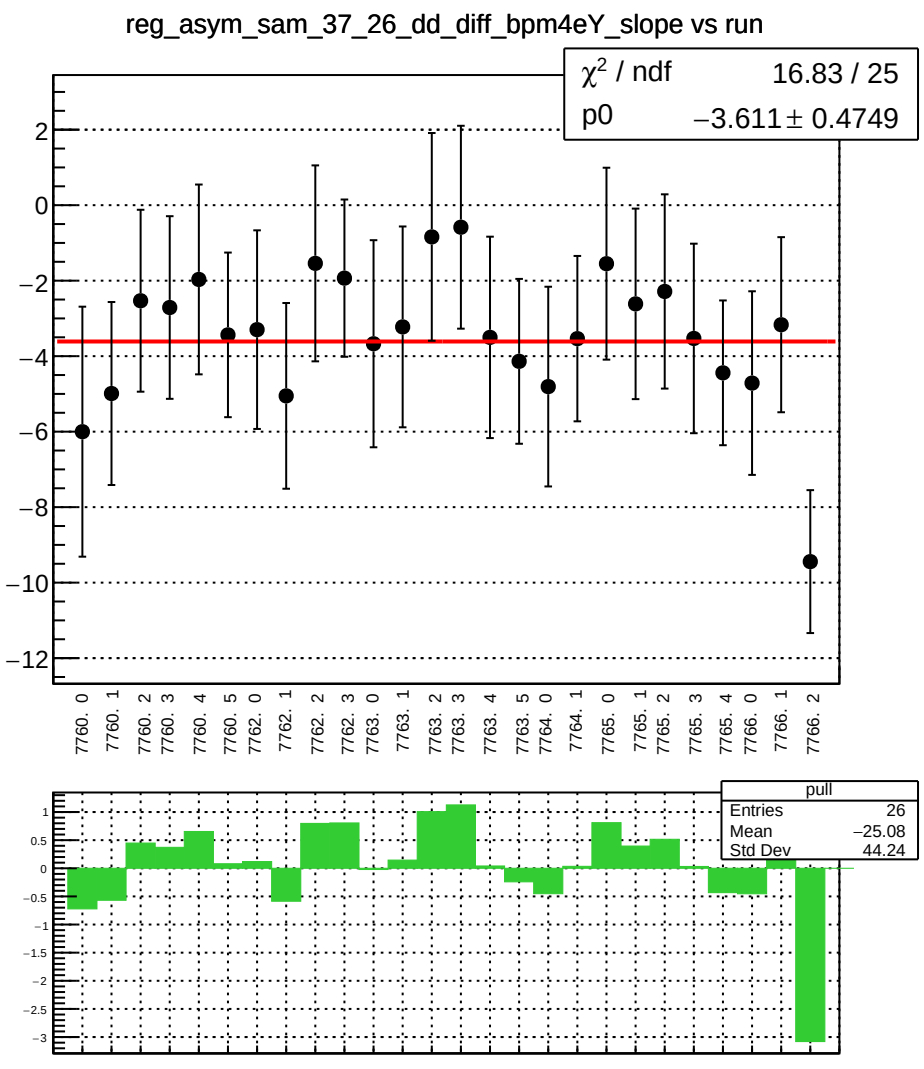

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.6751 / 25
p0 12.51 ± 3.128
30
20
10
0
−10
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 67.78
Std Dev 85.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 26
Mean 0.001073
Std Dev 0.1611
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

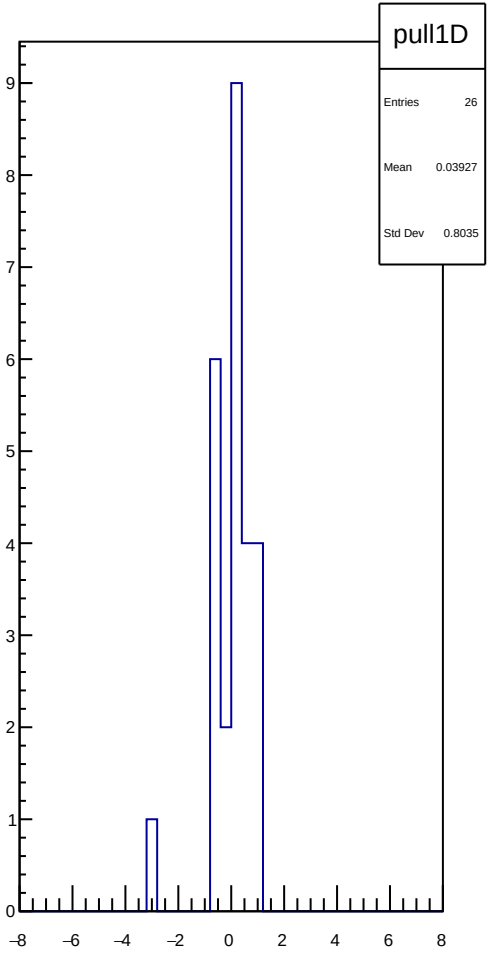

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 0.4594 / 25
p0 −0.3619 ± 0.08573
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −146.2
Std Dev 162.9
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 26
Mean 0.00125
Std Dev 0.1329
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

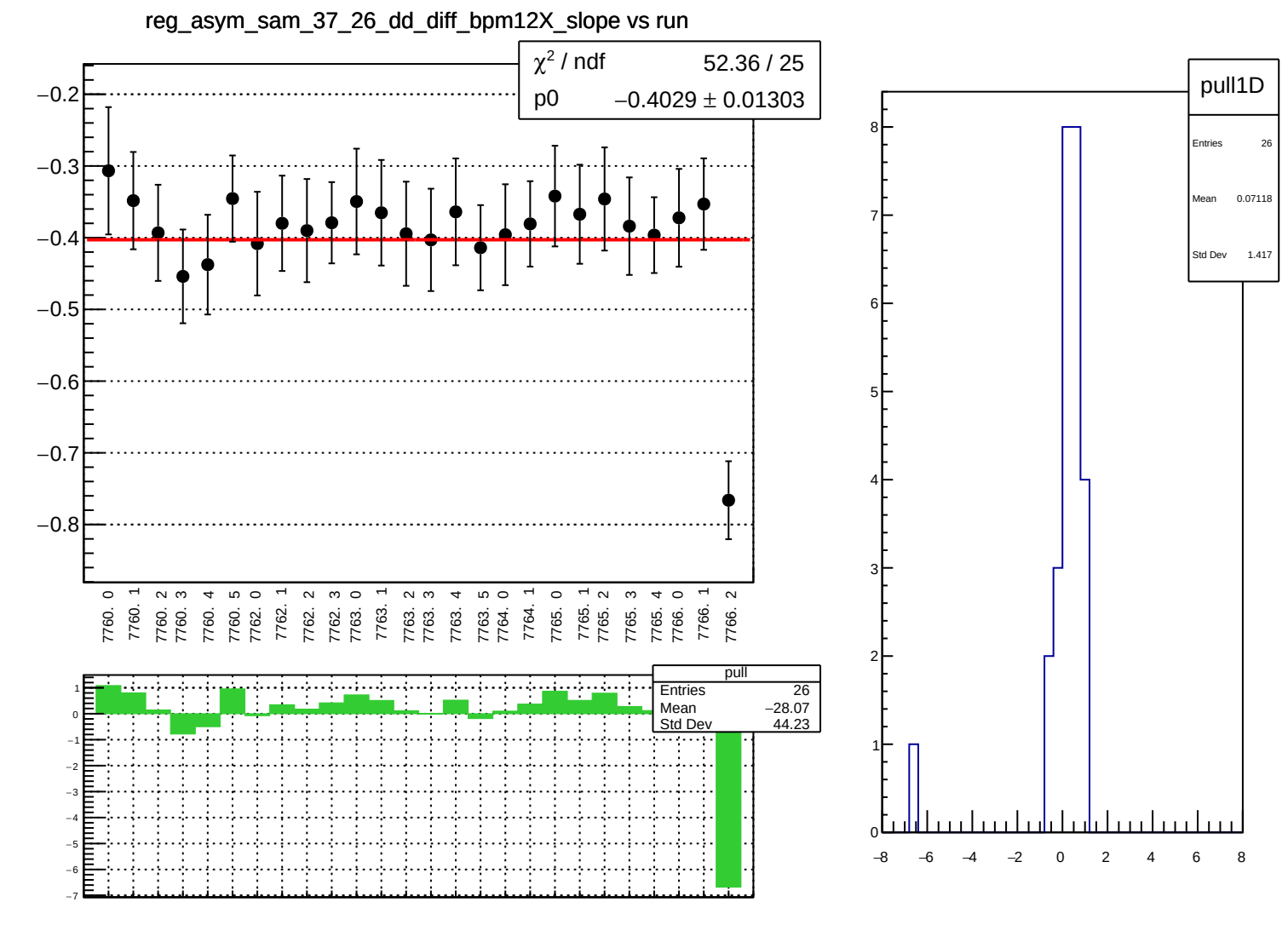

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 123.8 / 25
p0 −1.584 ± 0.3952
5
0
−5
−10
−15
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −11.2
Std Dev 27.13
0
−2
−4
−6
−8
−10
pull1D
Entries 26
Mean 0.6348
Std Dev 0.2925
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

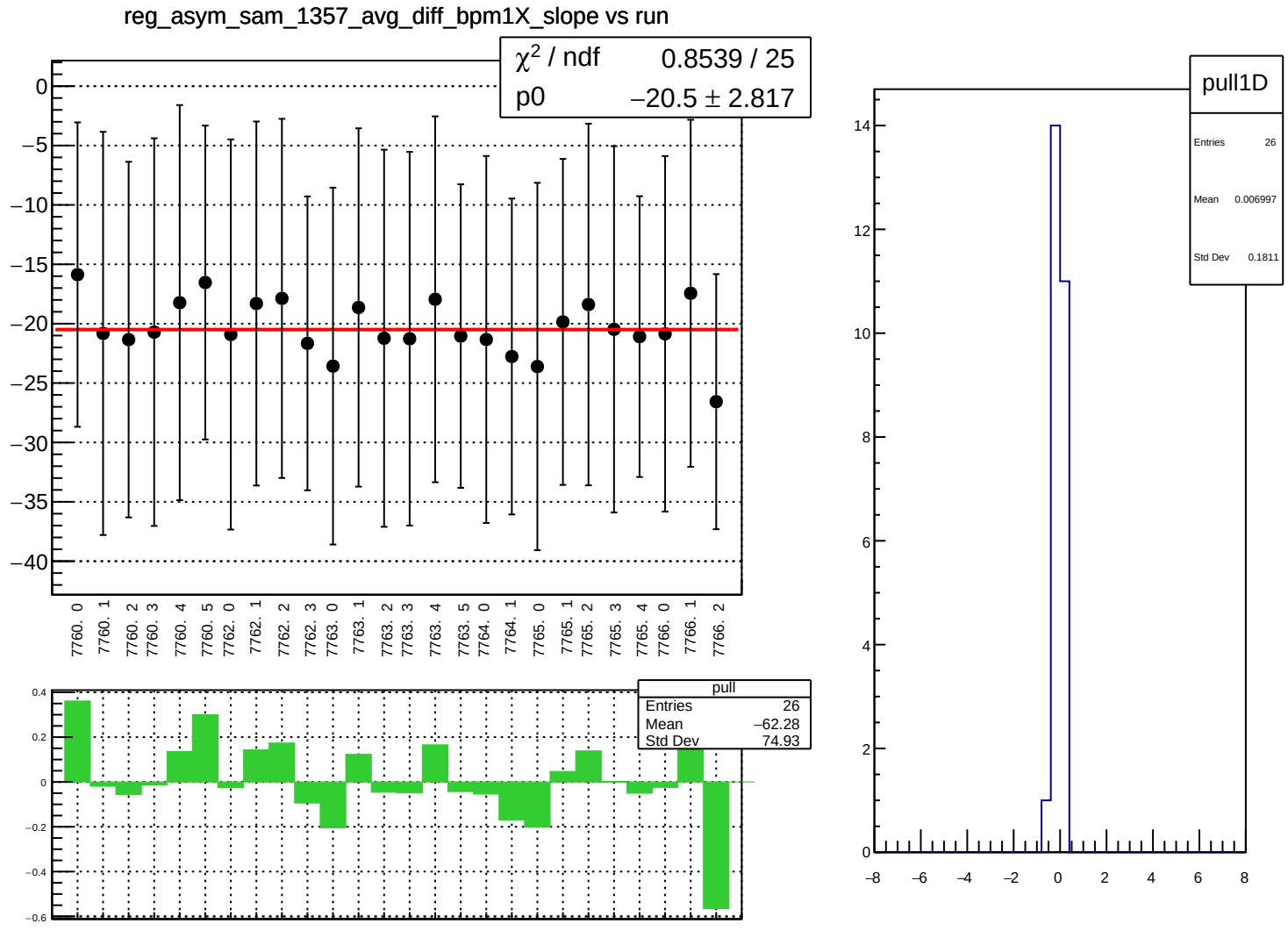

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 17.1 / 25
p0 23.89 ± 0.4215
32
30
28
26
24
22
20
18
16
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −37.8
Std Dev 52.52
3
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 26
Mean −0.05387
Std Dev 0.8092
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

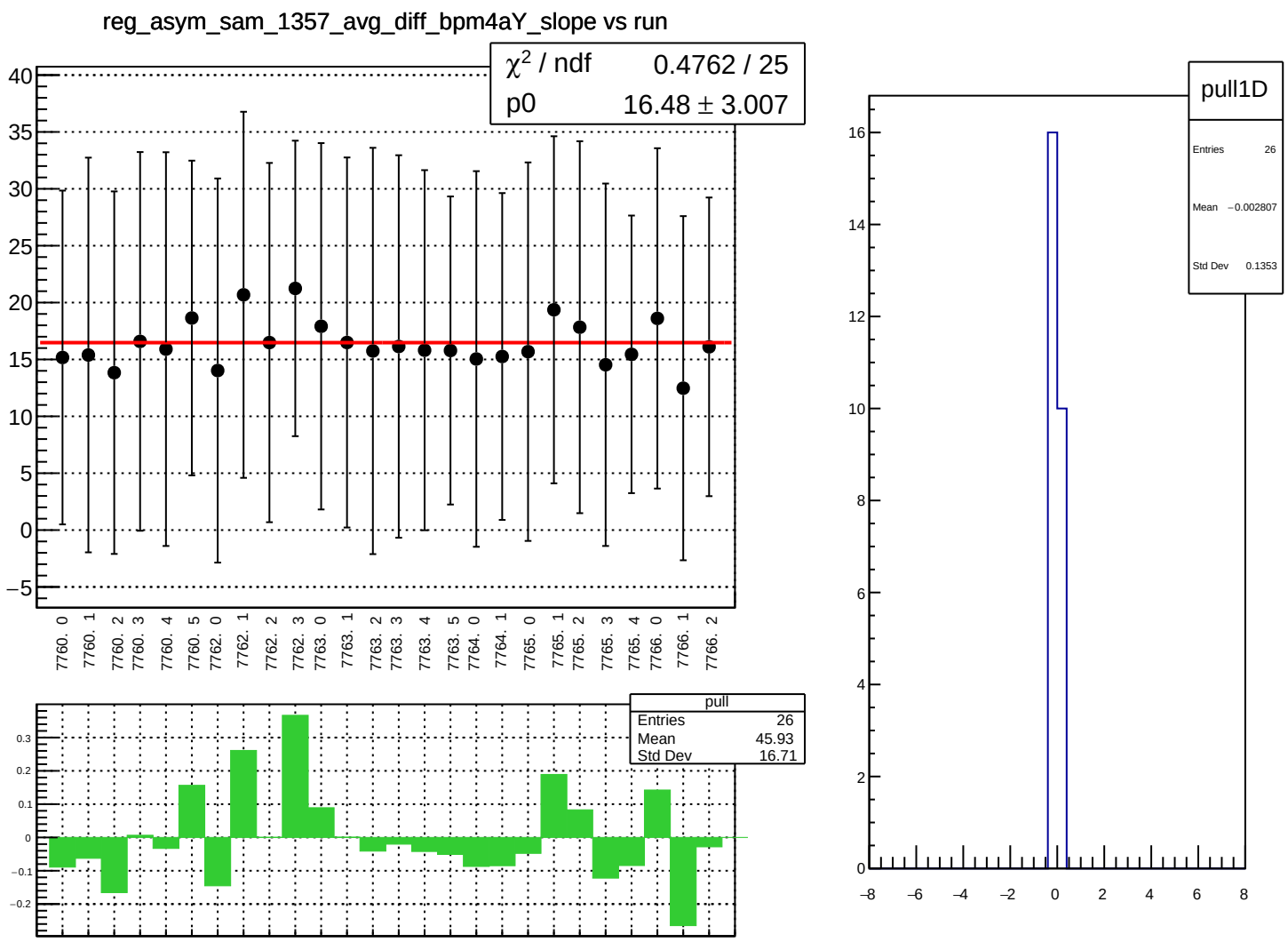

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 157.1 / 25
p0 −4.039 ± 0.3662
10
5
0
−5
−10
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −10.96
Std Dev 26.58
12
10
8
6
4
2
0
−2
pull1D
Entries 26
Mean −0.7371
Std Dev 0.35
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

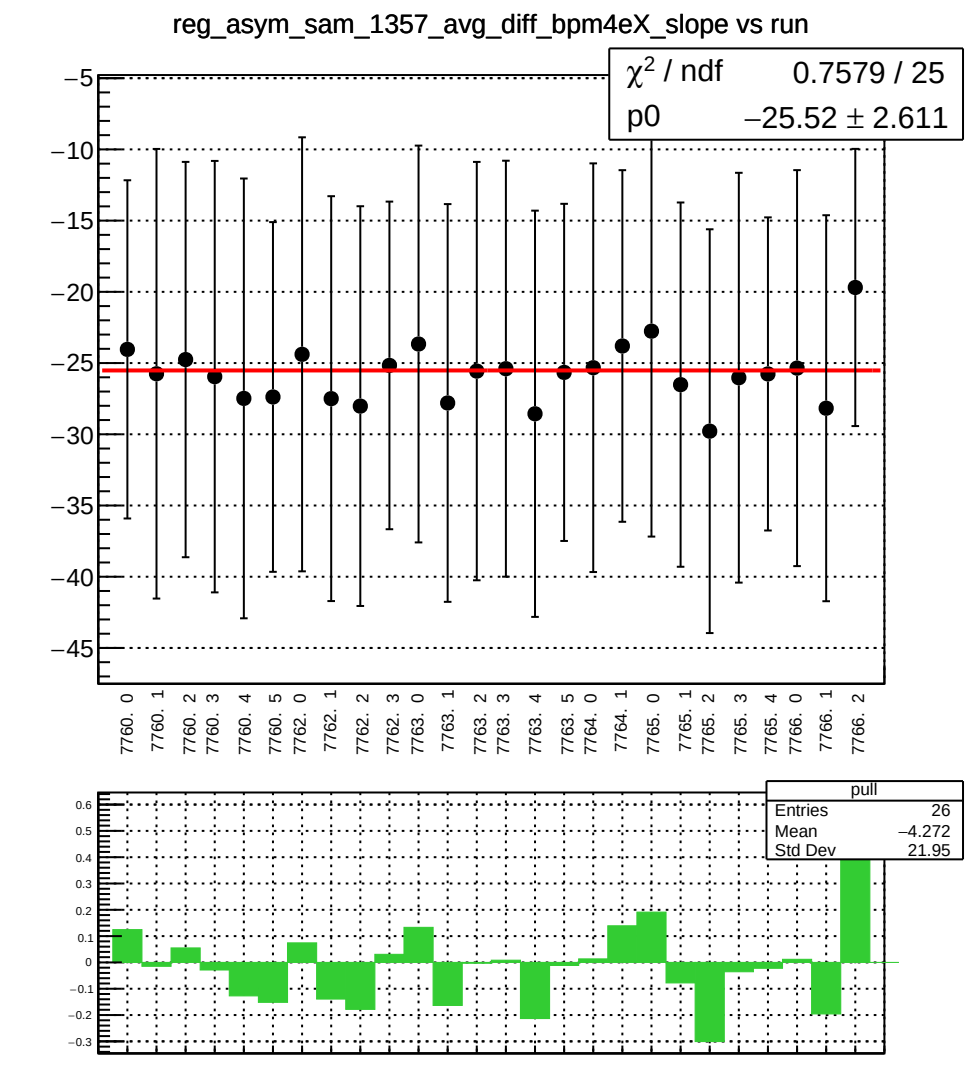

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 16.83 / 25
p0 −3.611 ± 0.4749
2
0
−2
−4
−6
−8
−10
−12
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −25.08
Std Dev 44.24
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

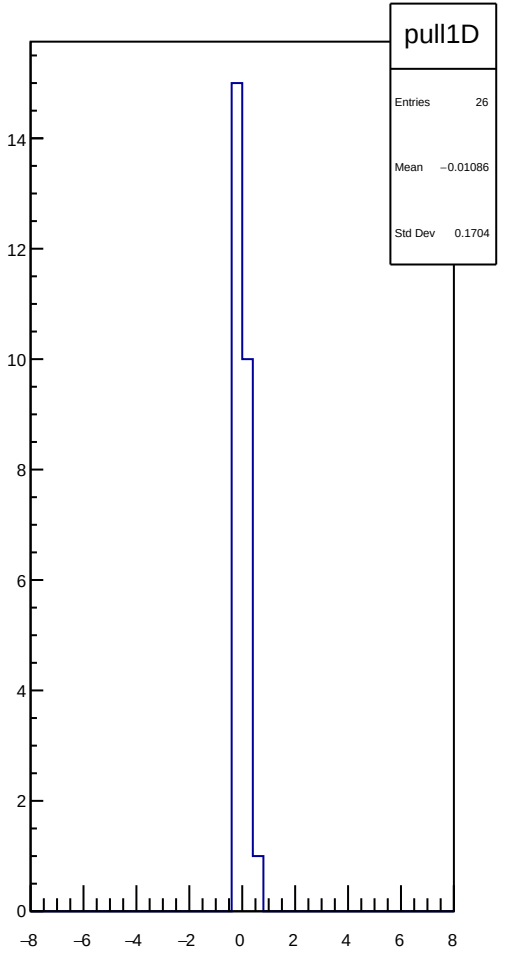

pull1D
Entries 26
Mean 0.03927
Std Dev 0.8035
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

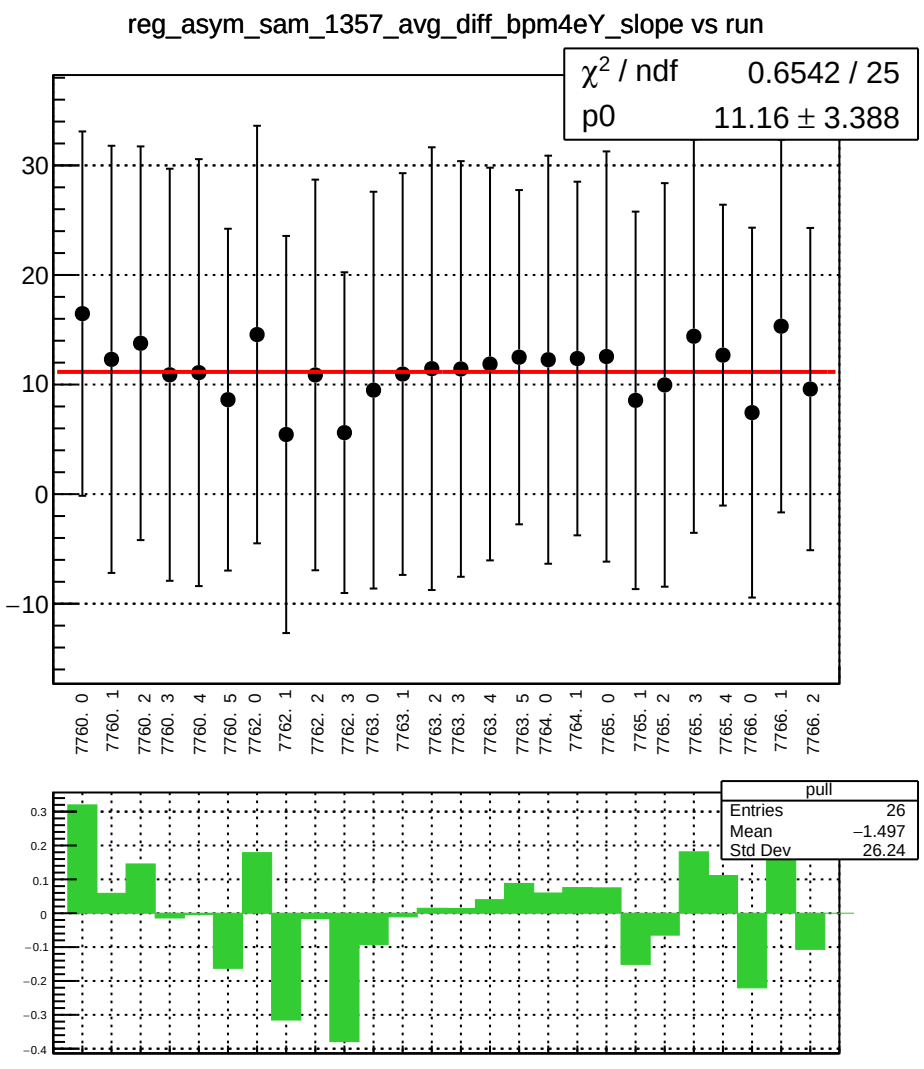

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 52.36 / 25
p0 −0.4029 ± 0.01303
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
−0.8
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −28.07
Std Dev 44.23
1
0
−1
−2
−3
−4
−5
−6
−7
pull1D
Entries 26
Mean 0.07118
Std Dev 1.417
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

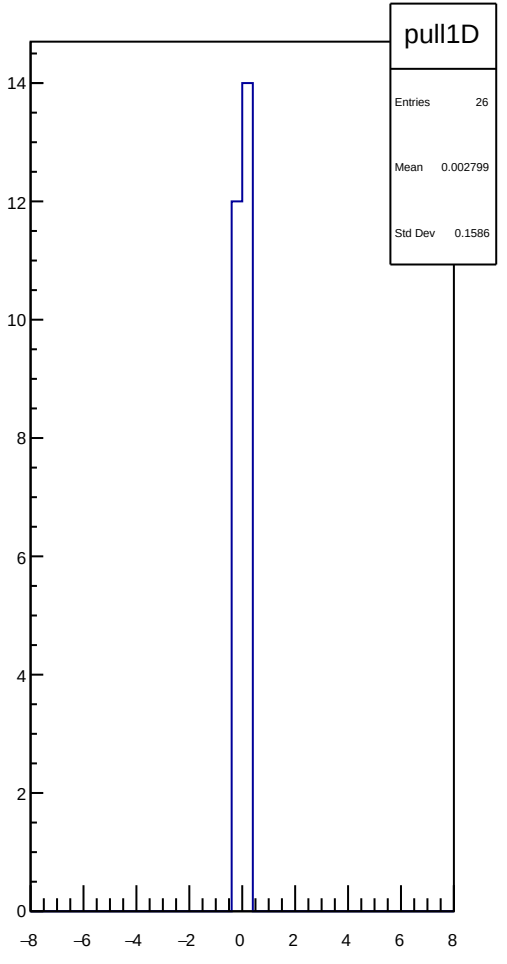

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 0.8539 / 25
p0 −20.5 ± 2.817
0
−5
−10
−15
−20
−25
−30
−35
−40
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −62.28
Std Dev 74.93
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 26
Mean 0.006997
Std Dev 0.1811
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

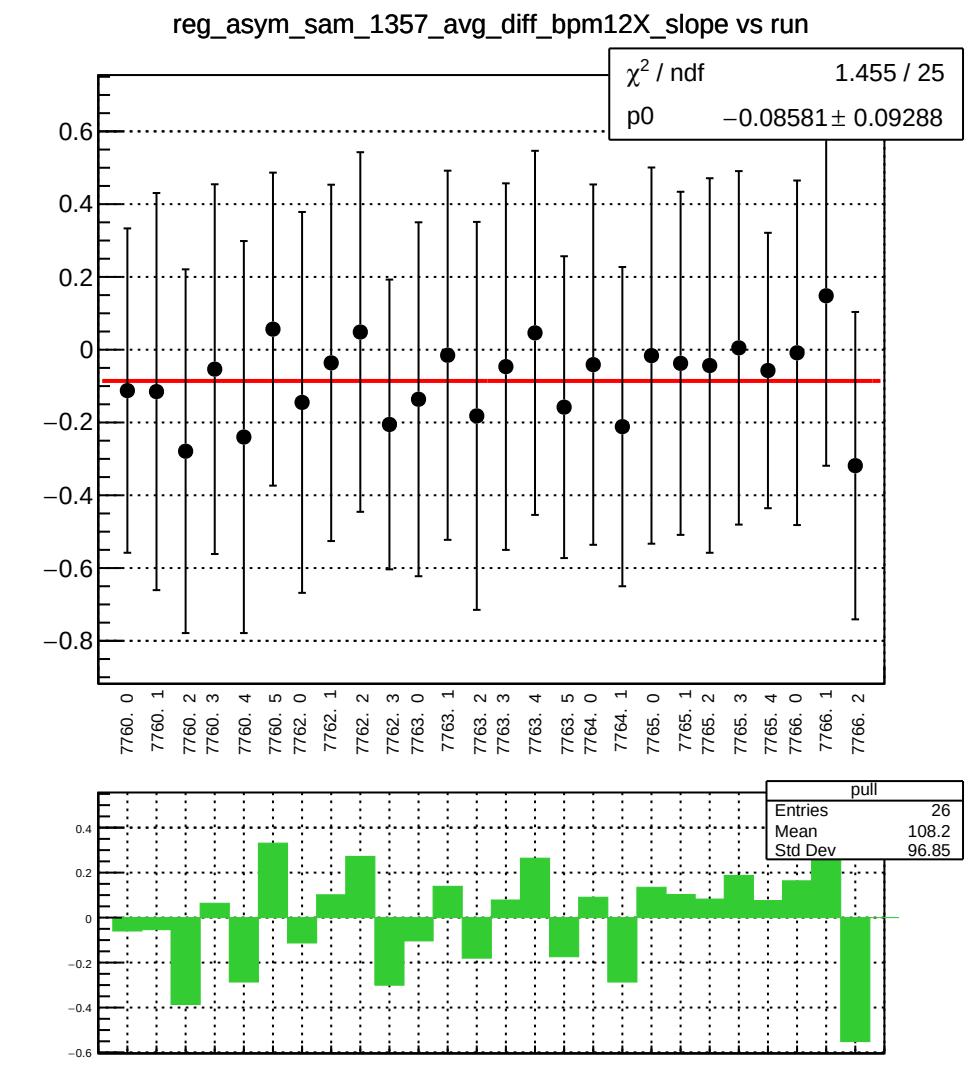

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.4762 / 25
p0 16.48 ± 3.007
40
35
30
25
20
15
10
5
0
−5
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 45.93
Std Dev 16.71
0.3
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 26
Mean −0.002807
Std Dev 0.1353
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

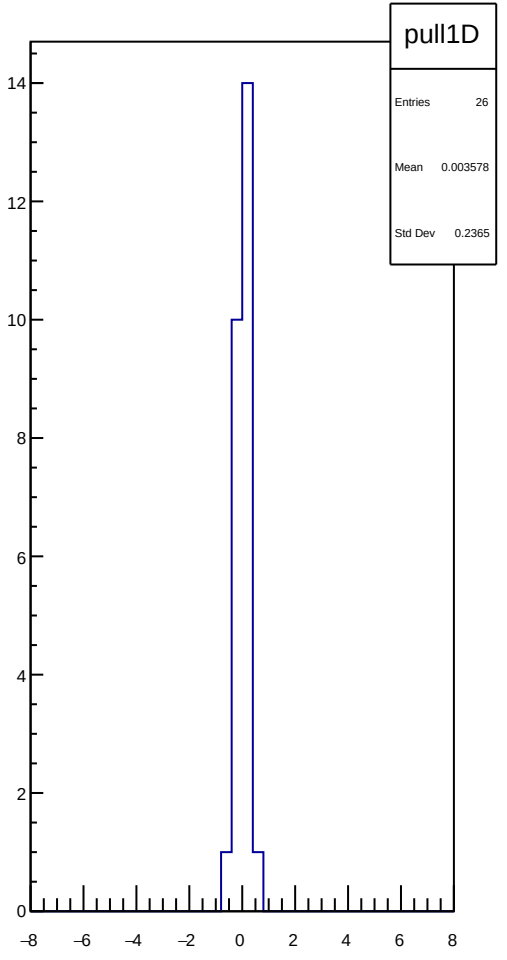

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 0.7579 / 25
p0 −25.52 ± 2.611
−5
−10
−15
−20
−25
−30
−35
−40
−45
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −4.272
Std Dev 21.95
0.6
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

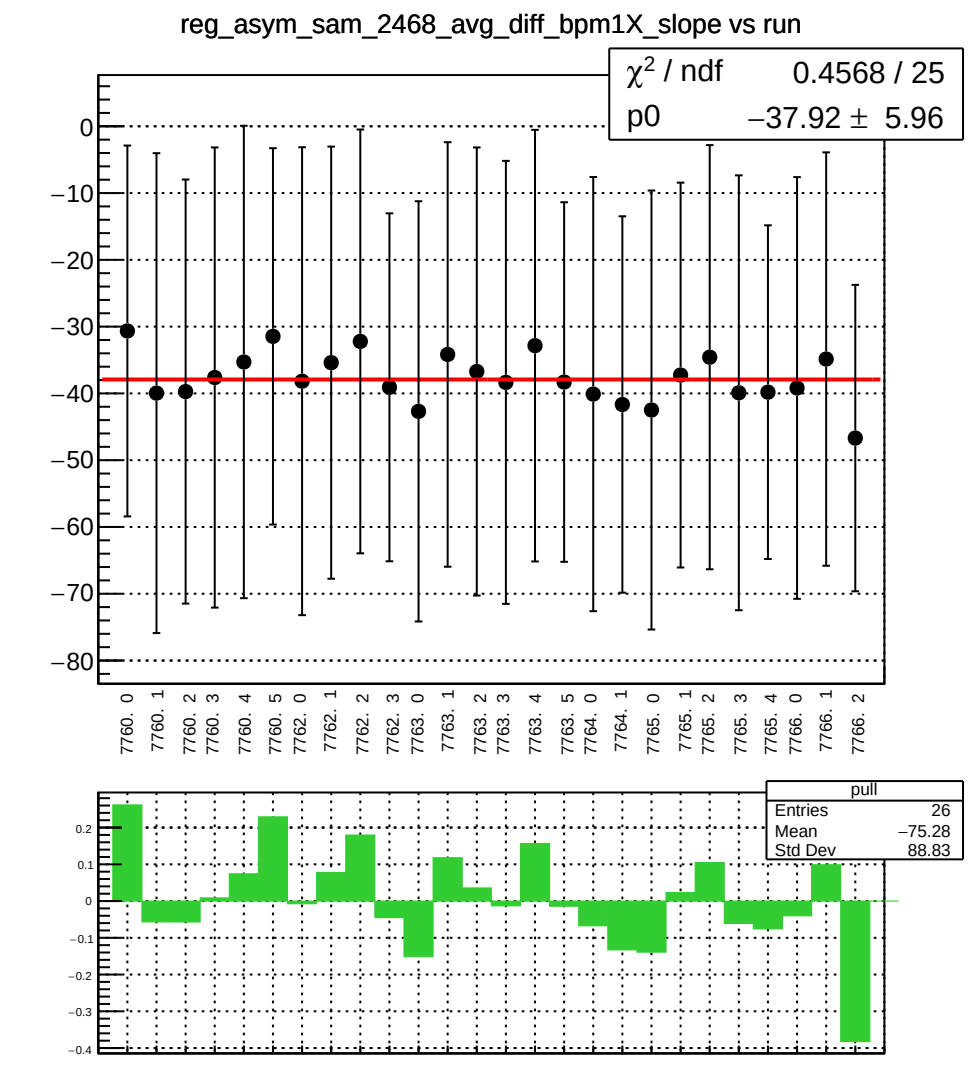

pull1D
Entries 26
Mean −0.01086
Std Dev 0.1704
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

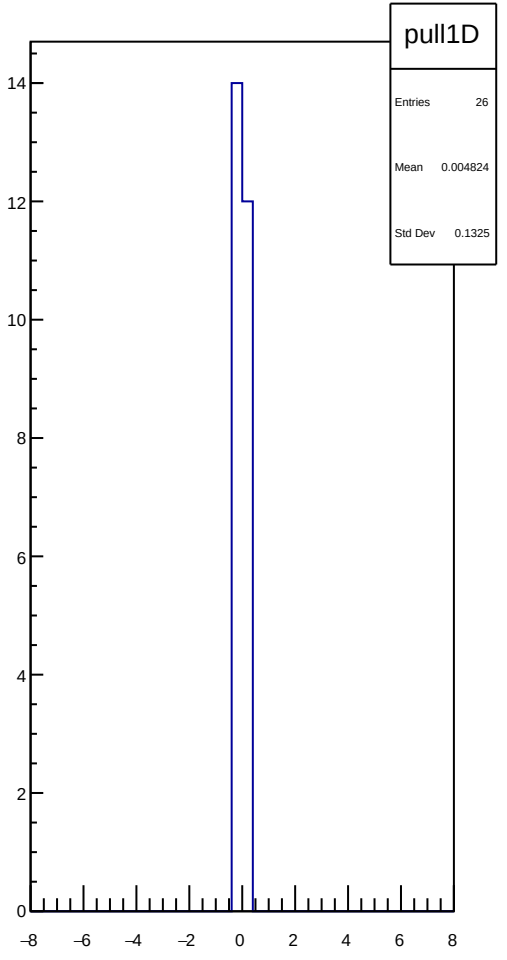

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.6542 / 25
p0 11.16 ± 3.388
30
20
10
0
−10
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −1.497
Std Dev 26.24
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

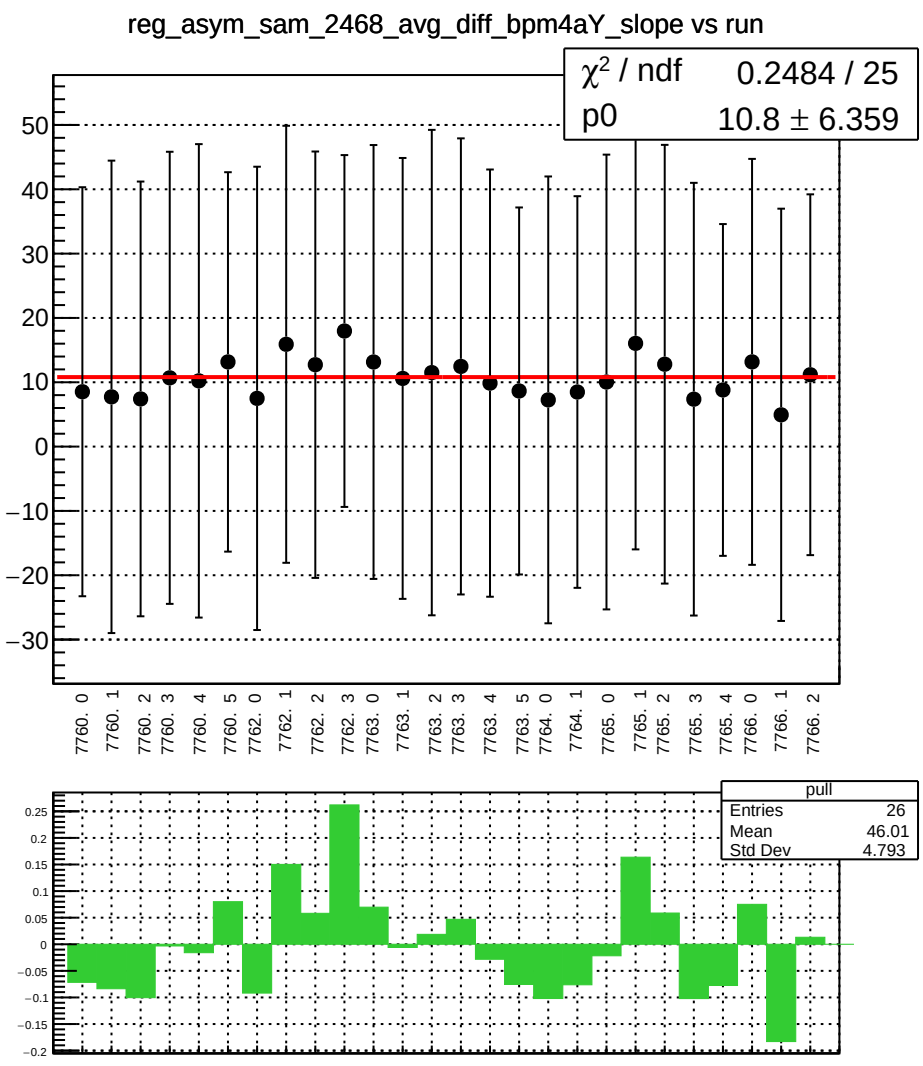

pull1D
Entries 26
Mean 0.002799
Std Dev 0.1586
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

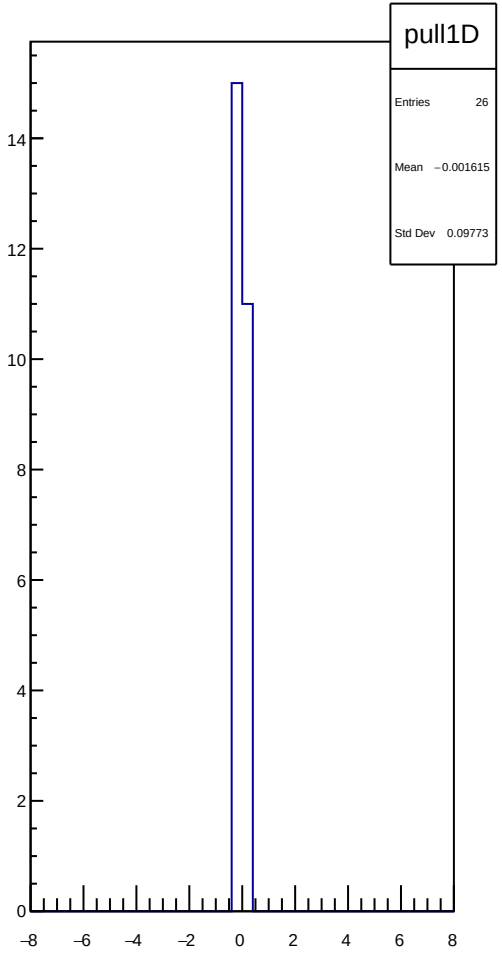

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 1.455 / 25
p0 −0.08581 ± 0.09288
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 108.2
Std Dev 96.85
0.4
0.2
0
−0.2
−0.4
−0.6

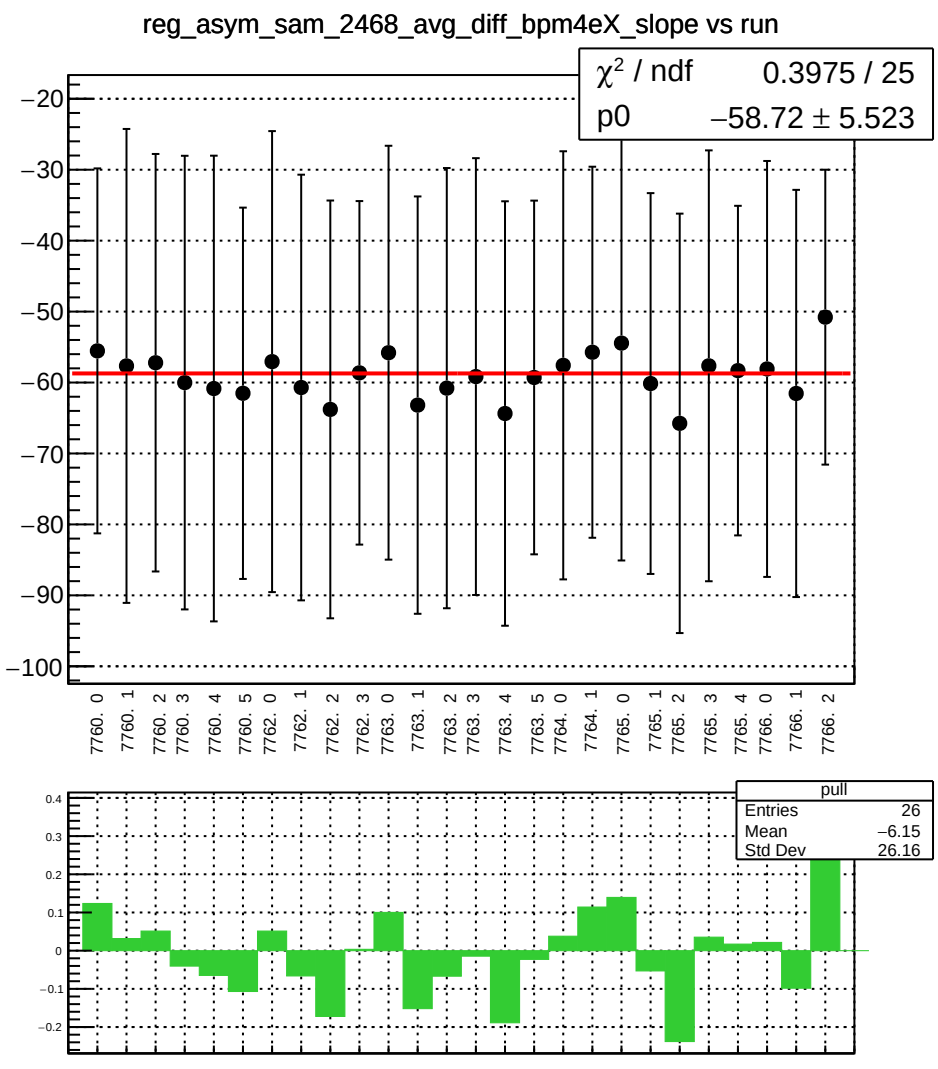

pull1D
Entries 26
Mean 0.003578
Std Dev 0.2365
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

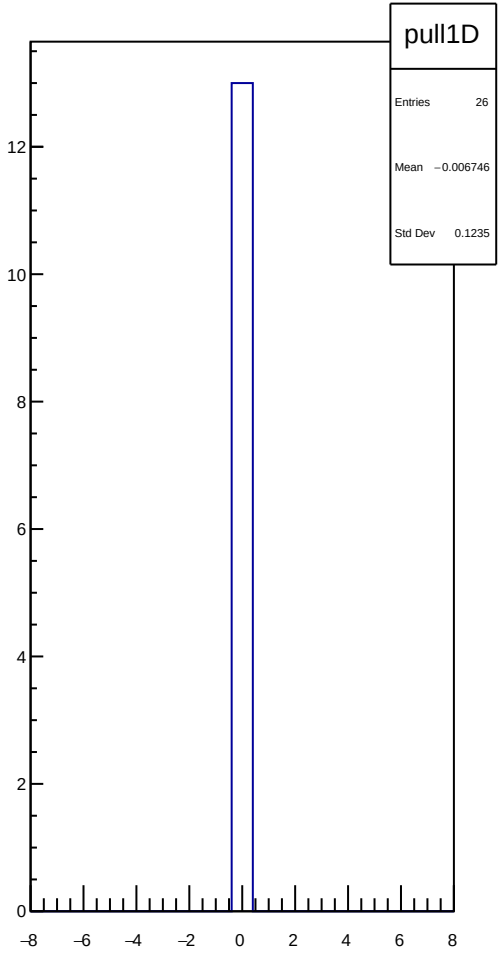

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 0.4568 / 25
p0 −37.92 ± 5.96
0
−10
−20
−30
−40
−50
−60
−70
−80
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −75.28
Std Dev 88.83
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

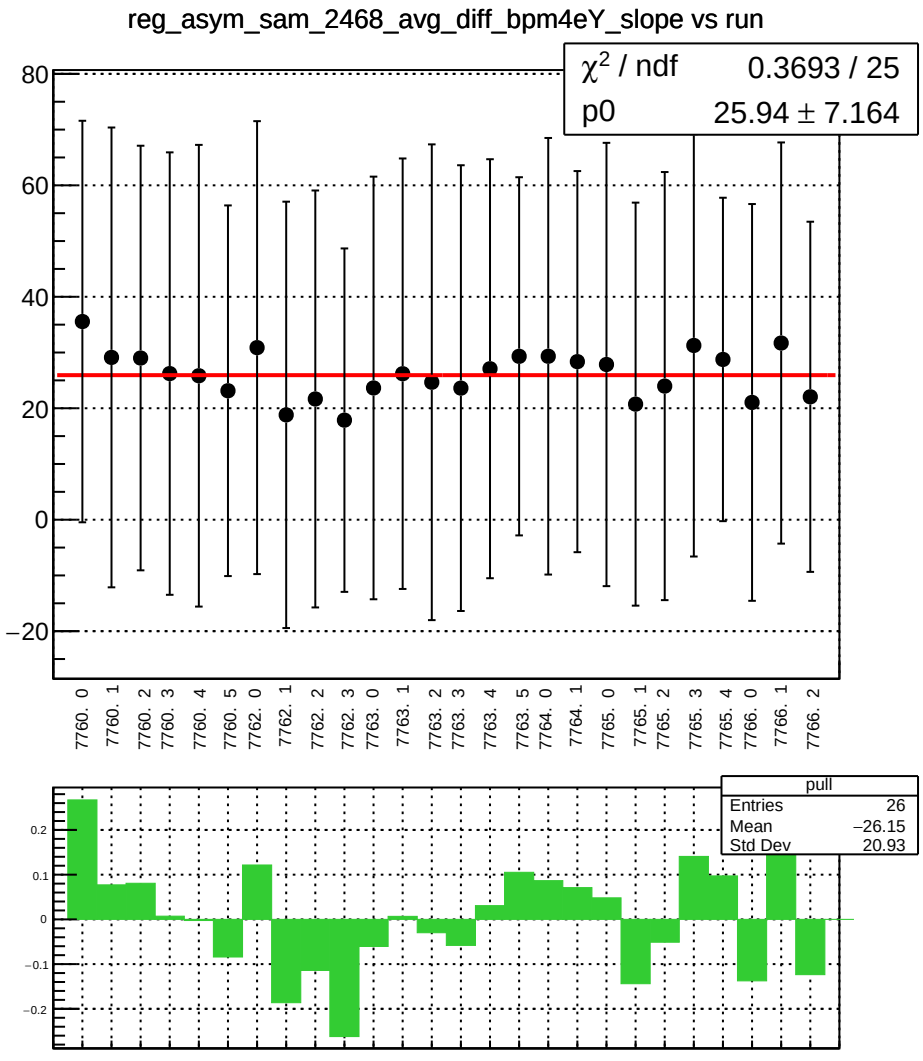

pull1D
Entries 26
Mean 0.004824
Std Dev 0.1325
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

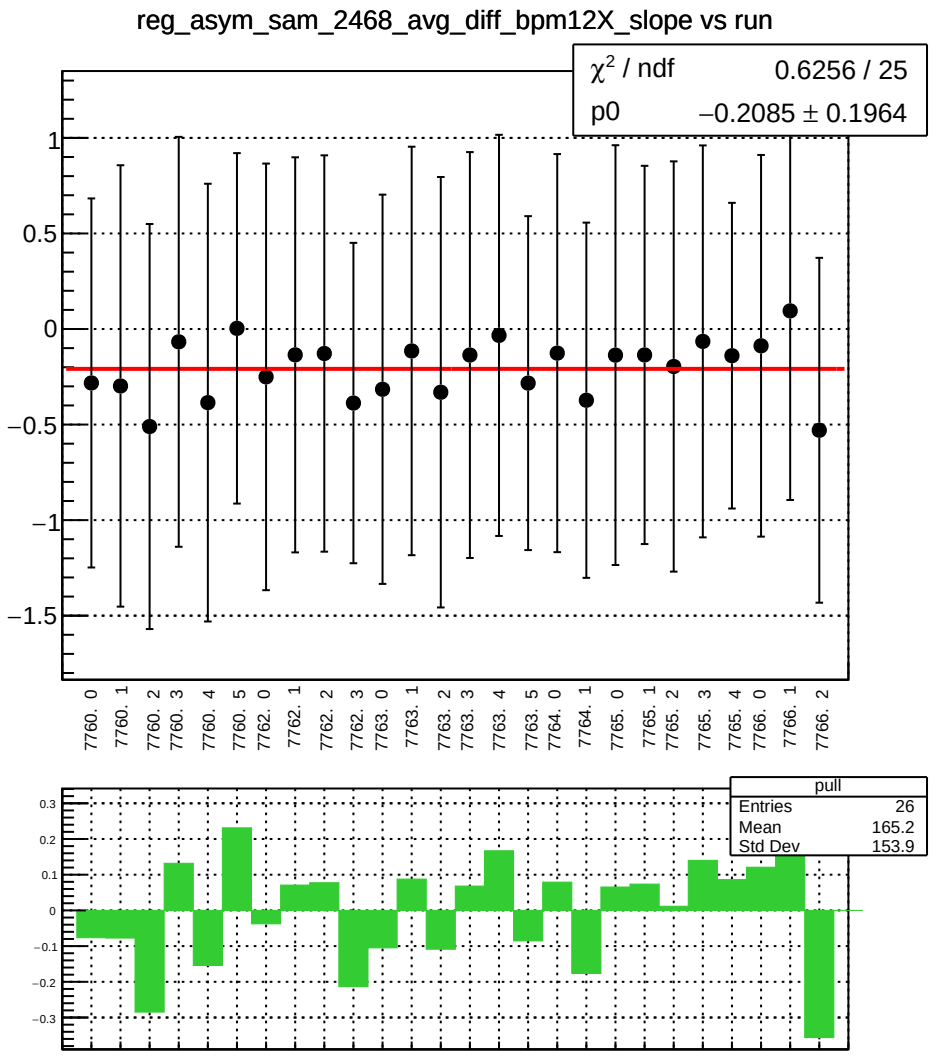

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.2484 / 25
p0 10.8 ± 6.359
50
40
30
20
10
0
−10
−20
−30
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 46.01
Std Dev 4.793
0.25
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2


pull1D
Entries 26
Mean −0.001615
Std Dev 0.09773
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

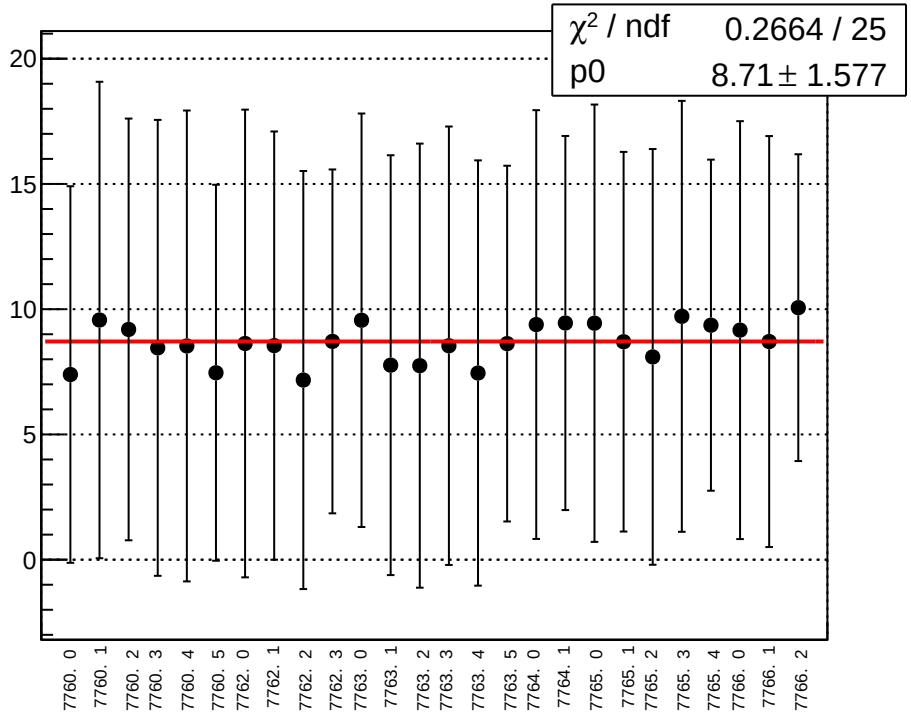

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 0.3975 / 25
p0 −58.72 ± 5.523
−20
−30
−40
−50
−60
−70
−80
−90
−100
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −6.15
Std Dev 26.16
0.4
0.3
0.2
0.1
0
−0.1
−0.2

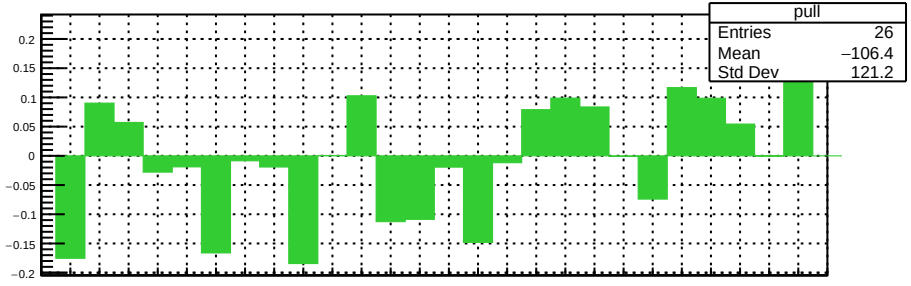

pull1D
Entries 26
Mean −0.006746
Std Dev 0.1235
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

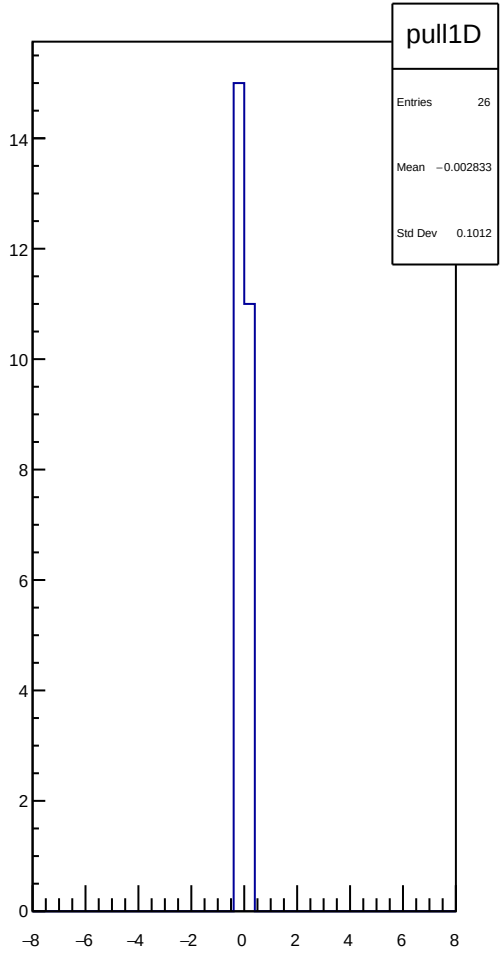

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.3693 / 25
p0 25.94 ± 7.164
80
60
40
20
0
−20
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −26.15
Std Dev 20.93
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 26
Mean 0.001812
Std Dev 0.1192
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

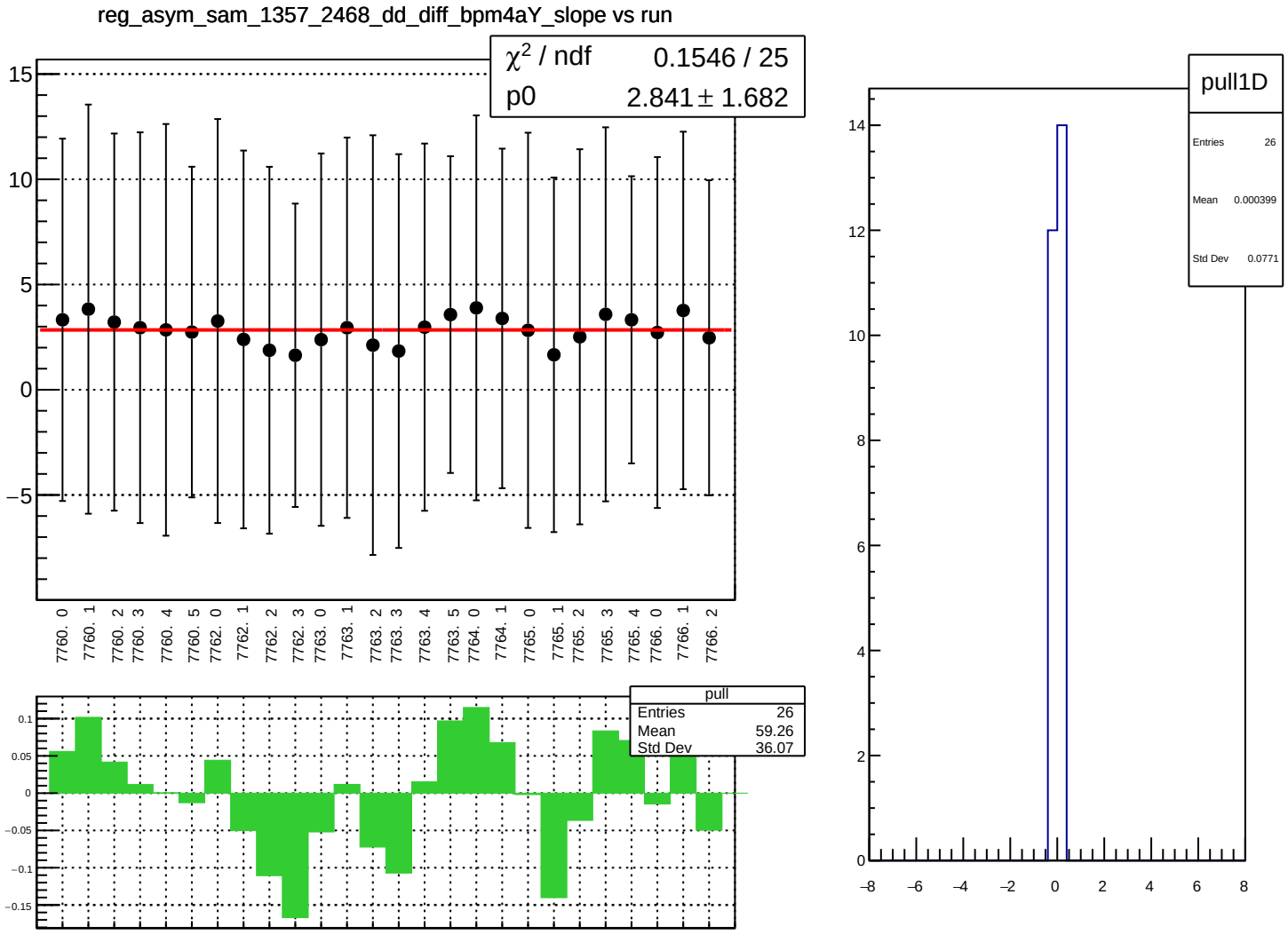

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 0.6256 / 25
p0 −0.2085 ± 0.1964
1
0.5
0
−0.5
−1
−1.5
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 165.2
Std Dev 153.9
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 26
Mean 0.001625
Std Dev 0.1551
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

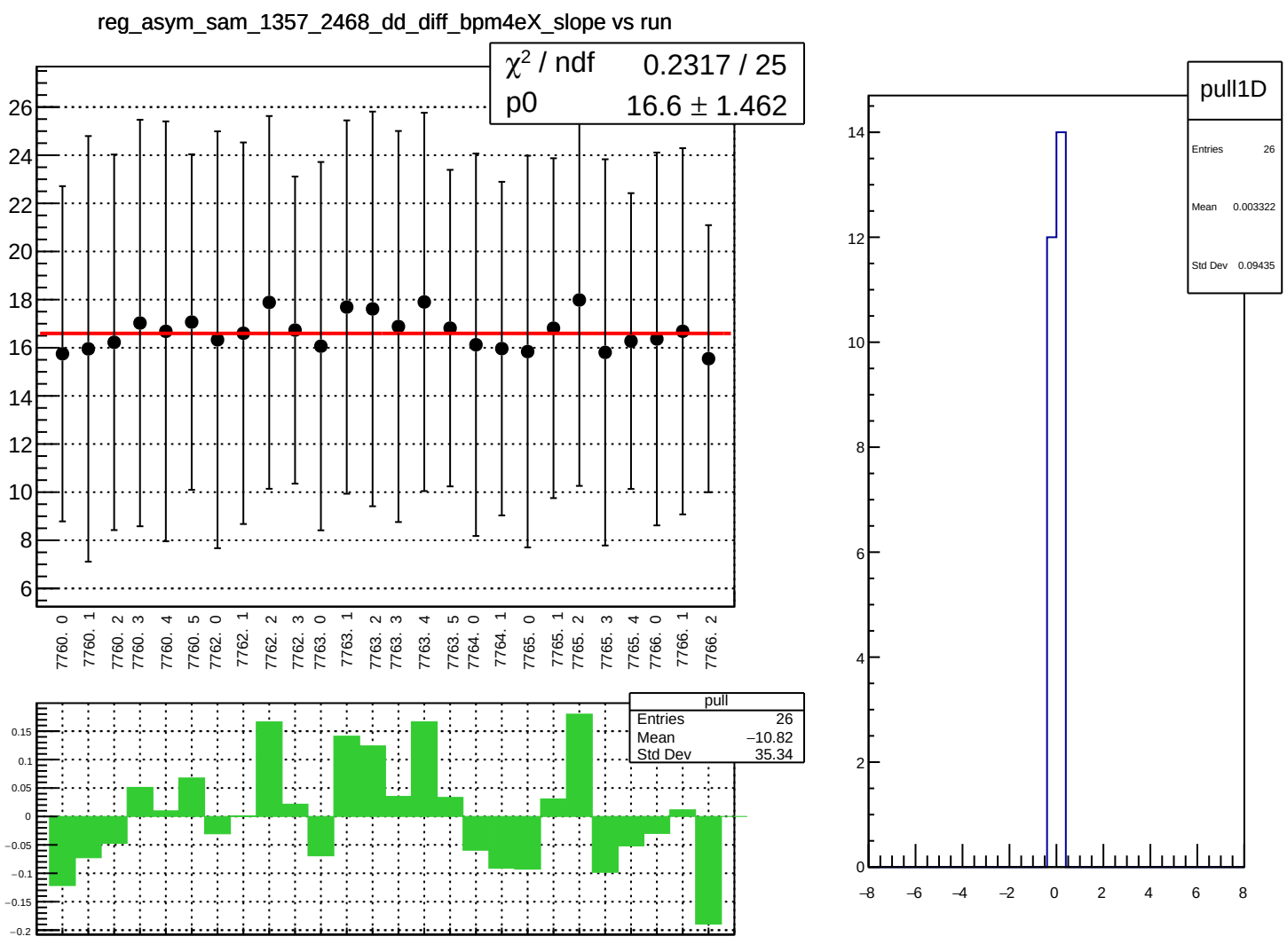
reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run

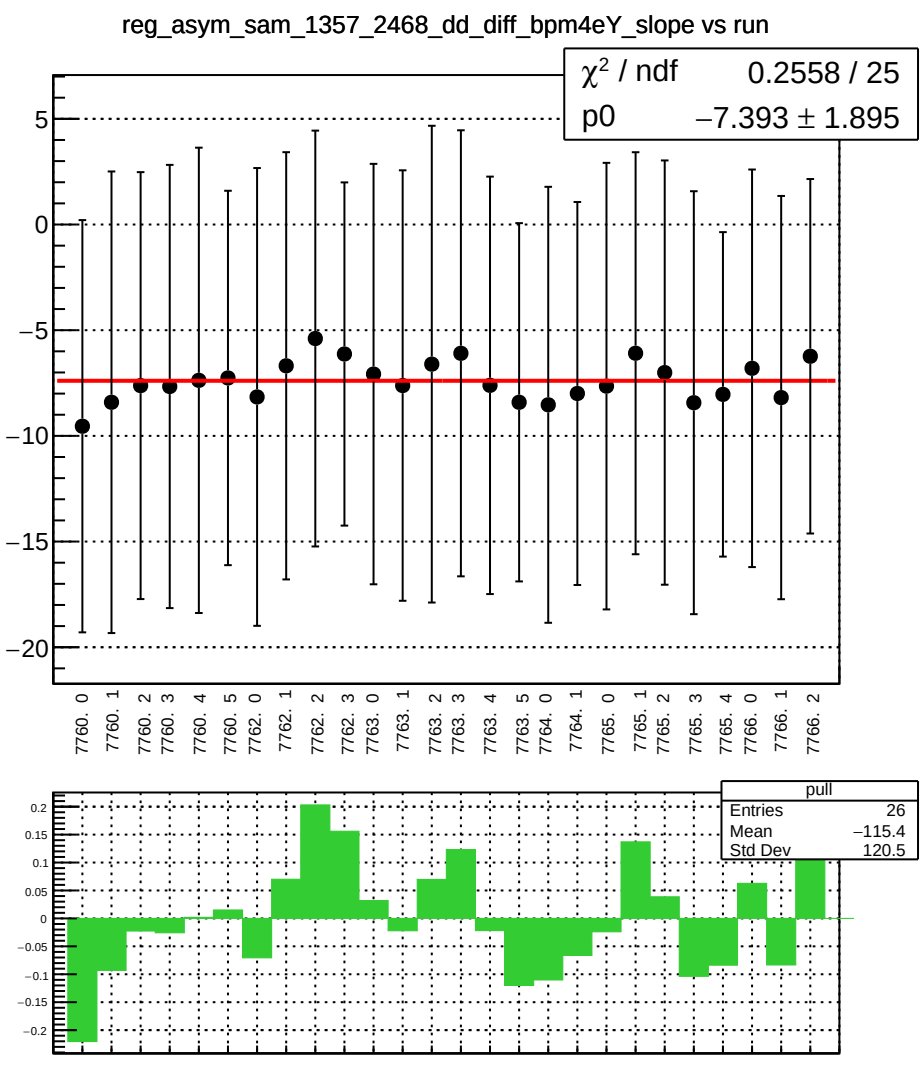


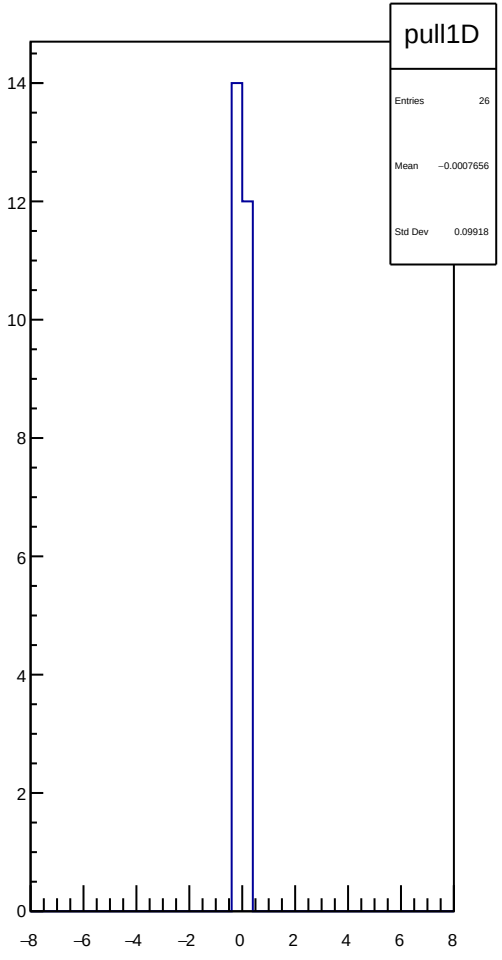


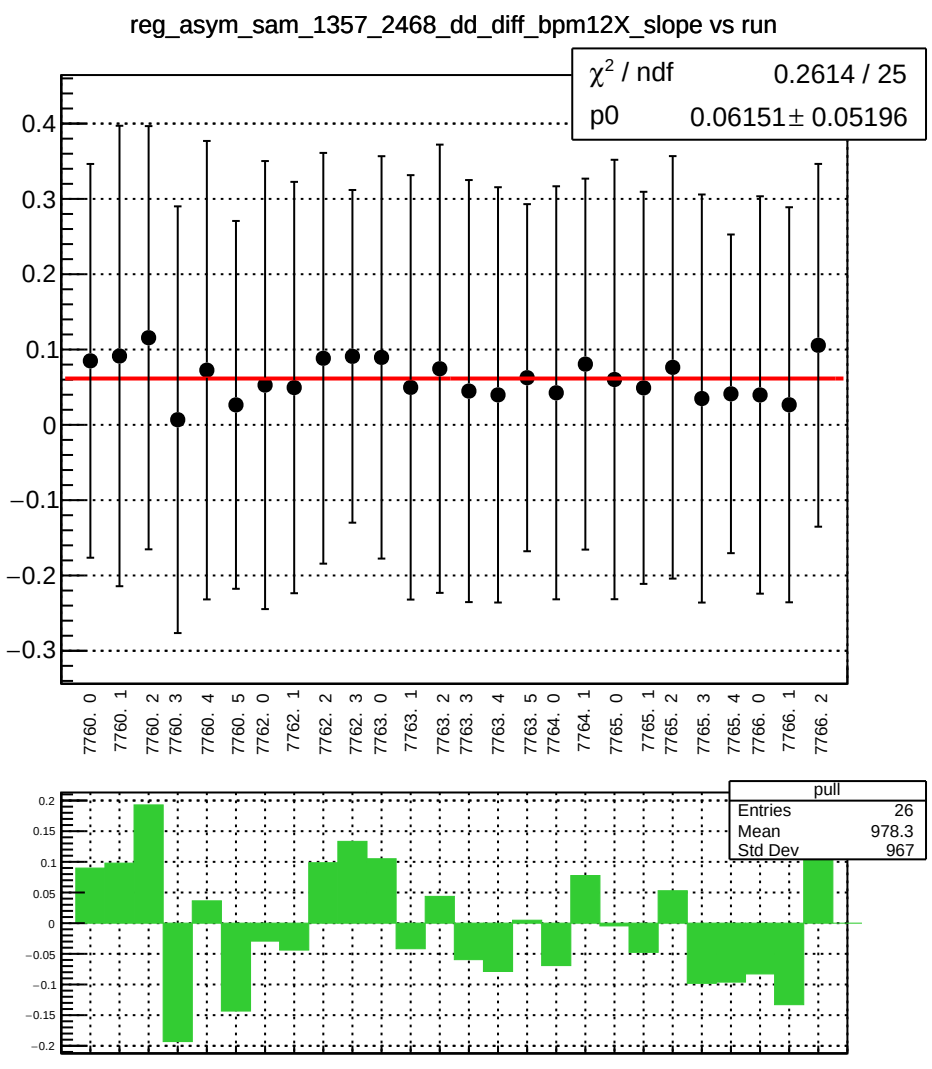


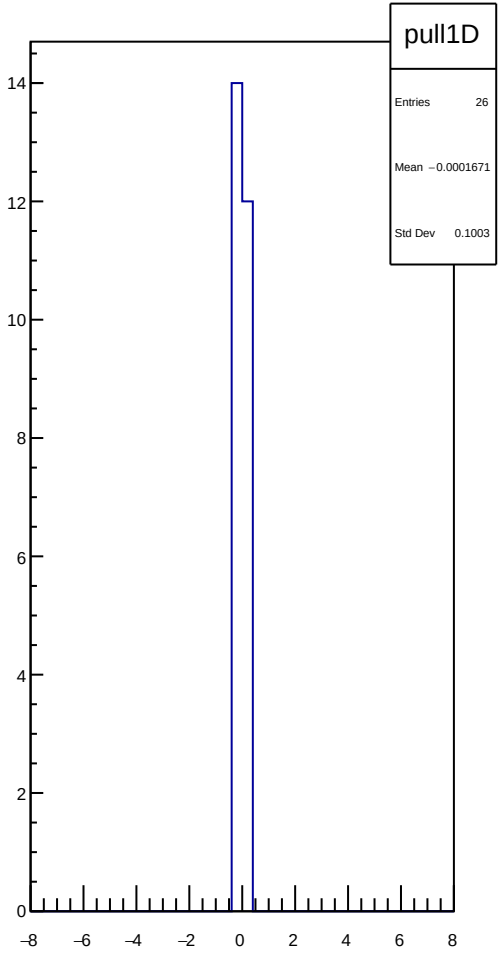

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.1546 / 25
p0 2.841 ± 1.682
15
10
5
0
−5
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 59.26
Std Dev 36.07
0.1
0.05
0
−0.05
−0.1
−0.15
pull1D
Entries 26
Mean 0.000399
Std Dev 0.0771
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

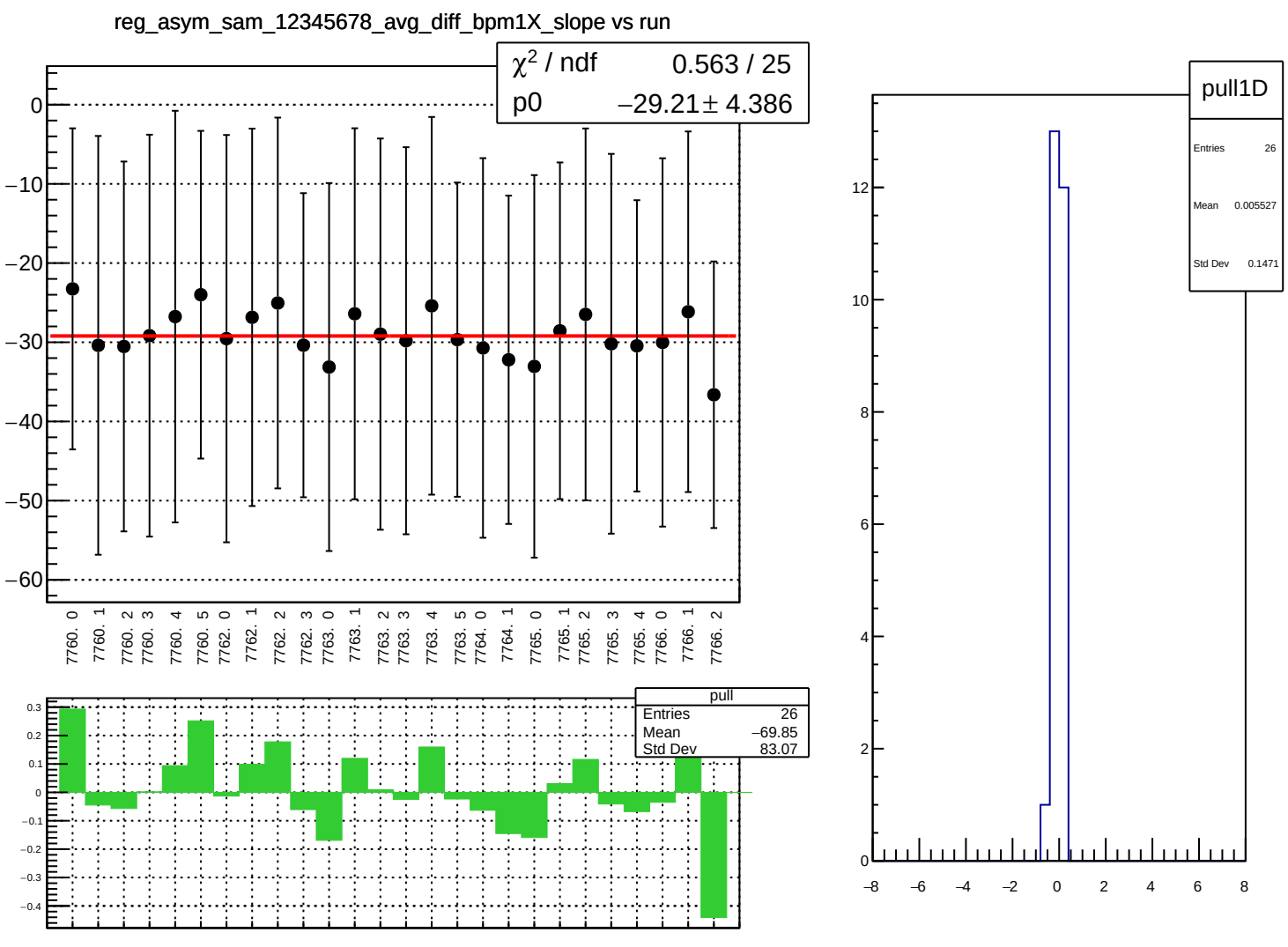

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.2317 / 25
p0 16.6 ± 1.462
pull
Entries 26
Mean −10.82
Std Dev 35.34
pull1D
Entries 26
Mean 0.003322
Std Dev 0.09435

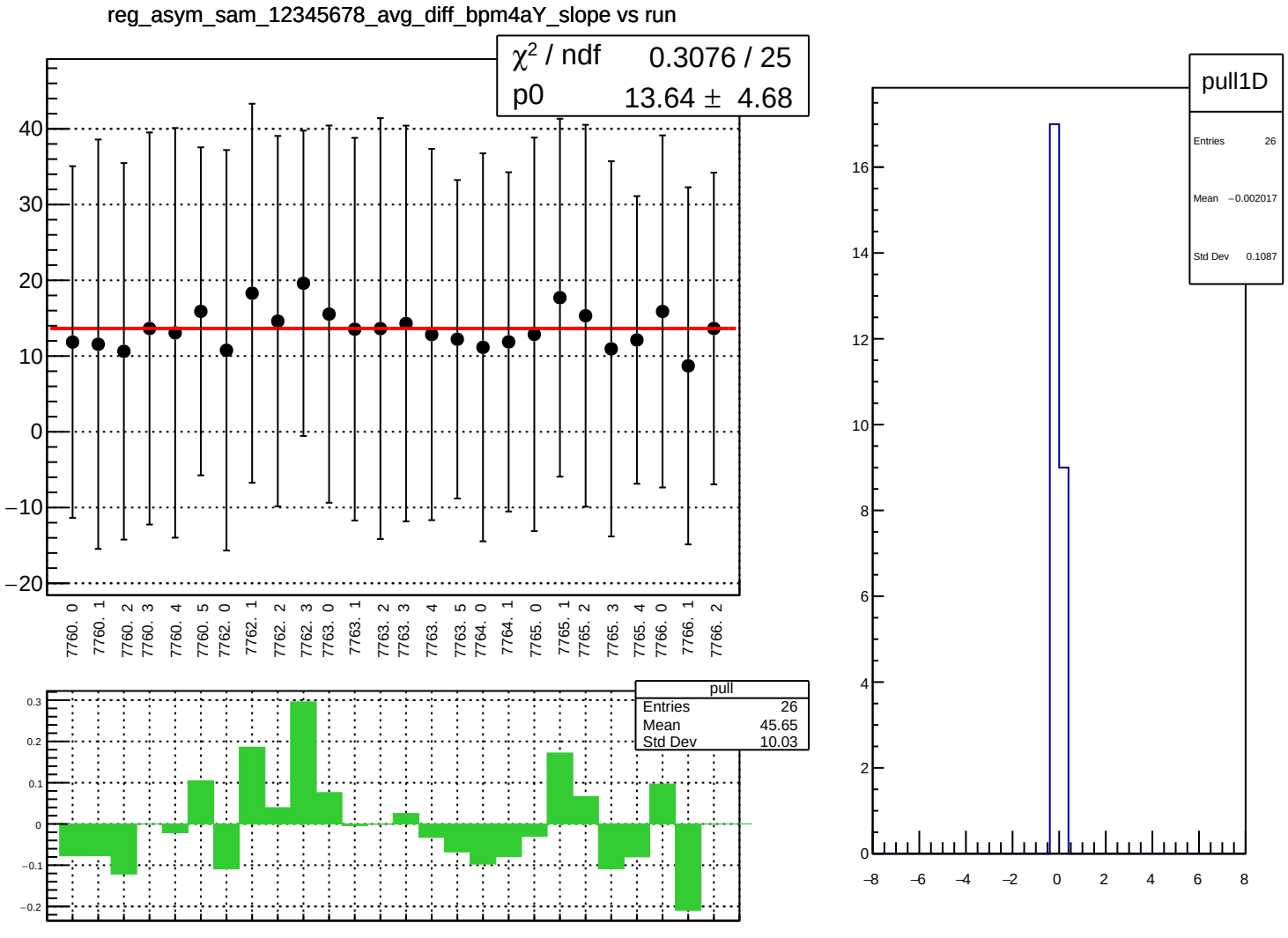

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.2558 / 25
p0 −7.393 ± 1.895
5
0
−5
−10
−15
−20
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −115.4
Std Dev 120.5
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2

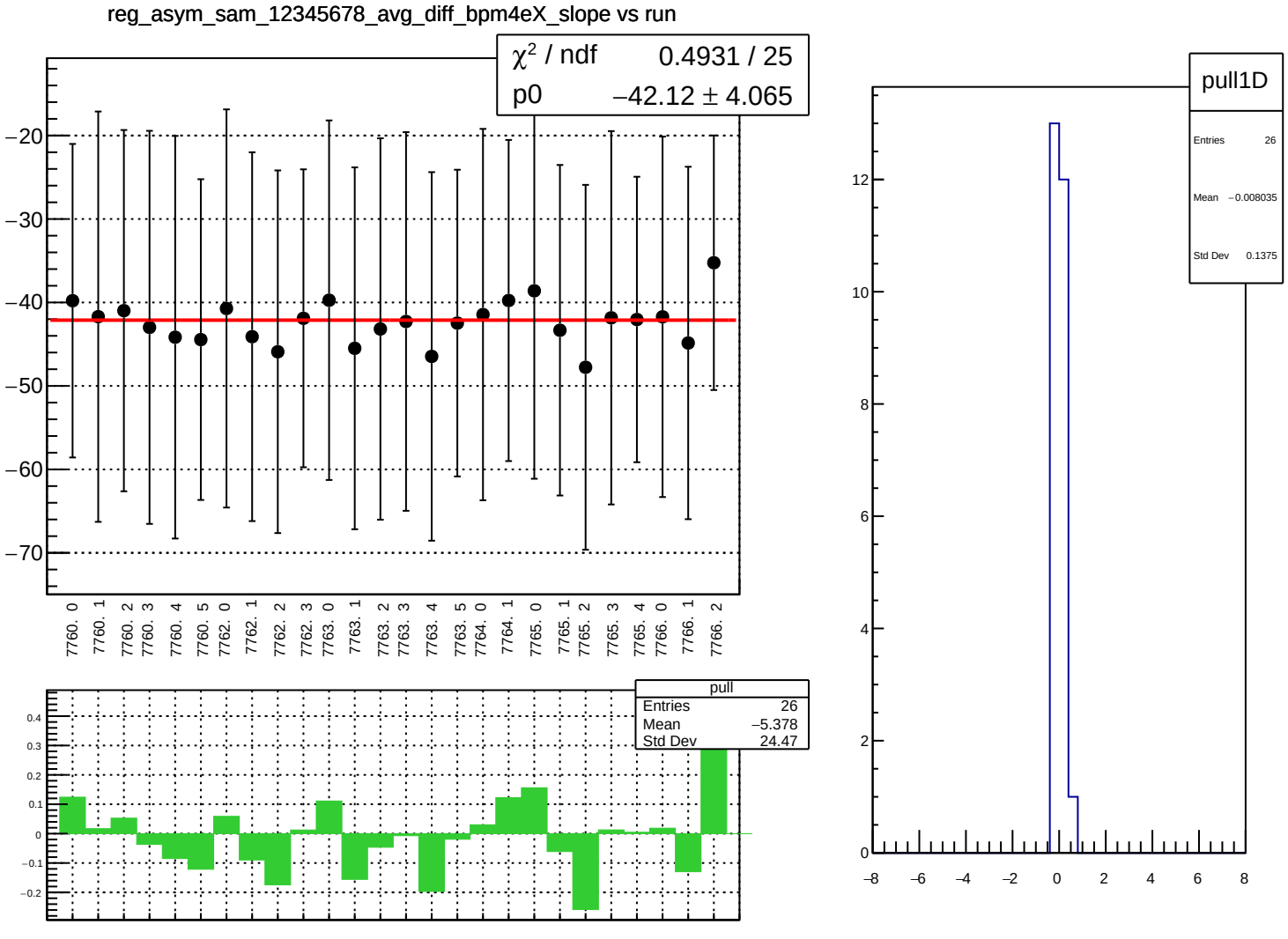

pull1D
Entries 26
Mean −0.0007656
Std Dev 0.09918
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

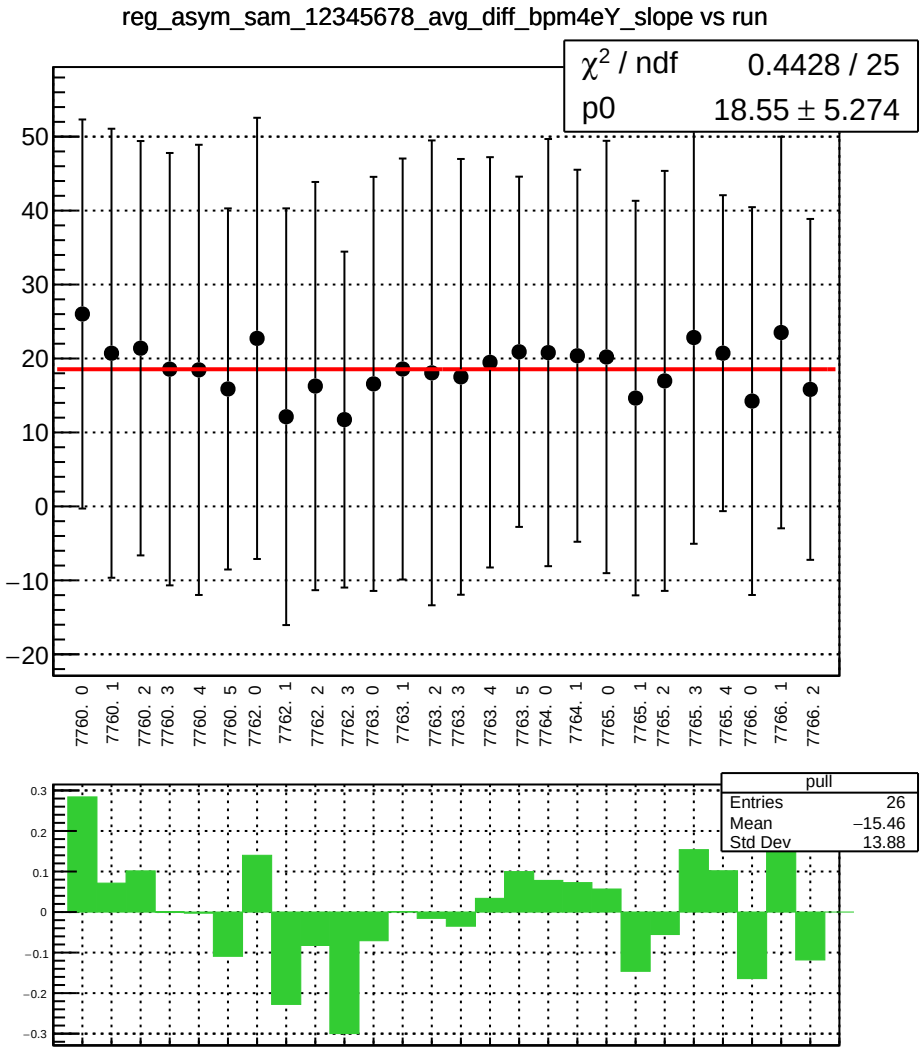

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 0.2614 / 25
p0 0.06151 ± 0.05196
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 978.3
Std Dev 967
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2

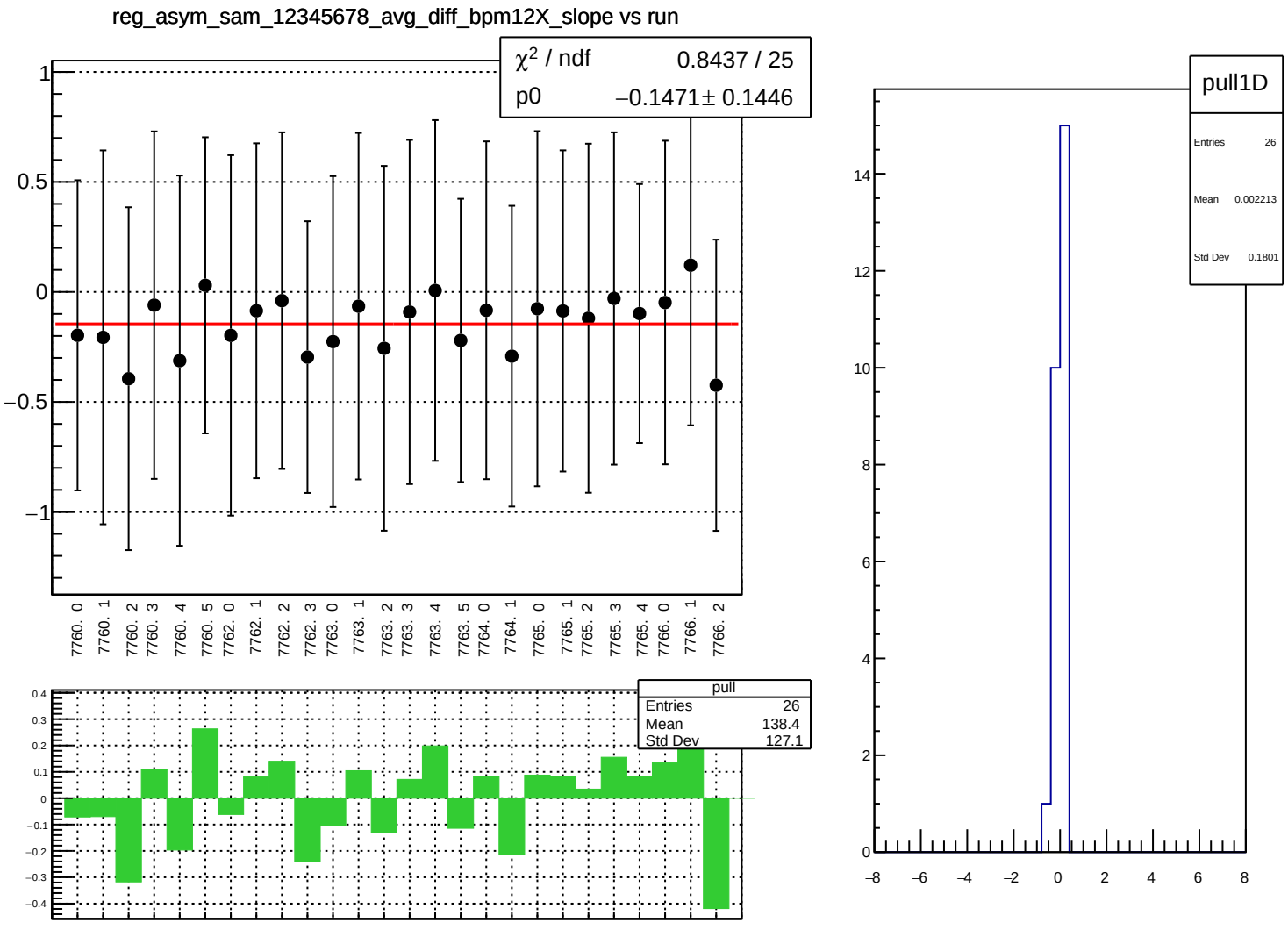

pull1D
Entries 26
Mean −0.0001671
Std Dev 0.1003
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

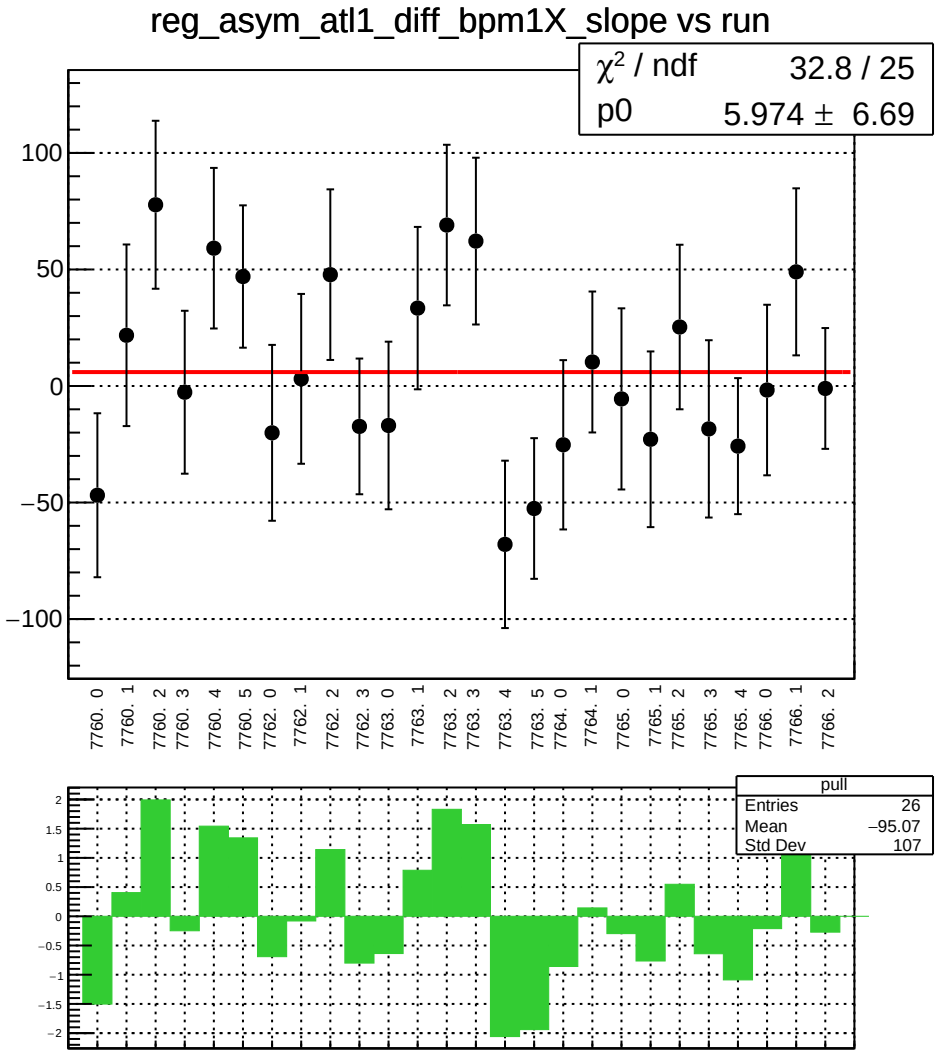

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 0.563 / 25
p0 −29.21 ± 4.386
0
−10
−20
−30
−40
−50
−60
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −69.85
Std Dev 83.07
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 26
Mean 0.005527
Std Dev 0.1471
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

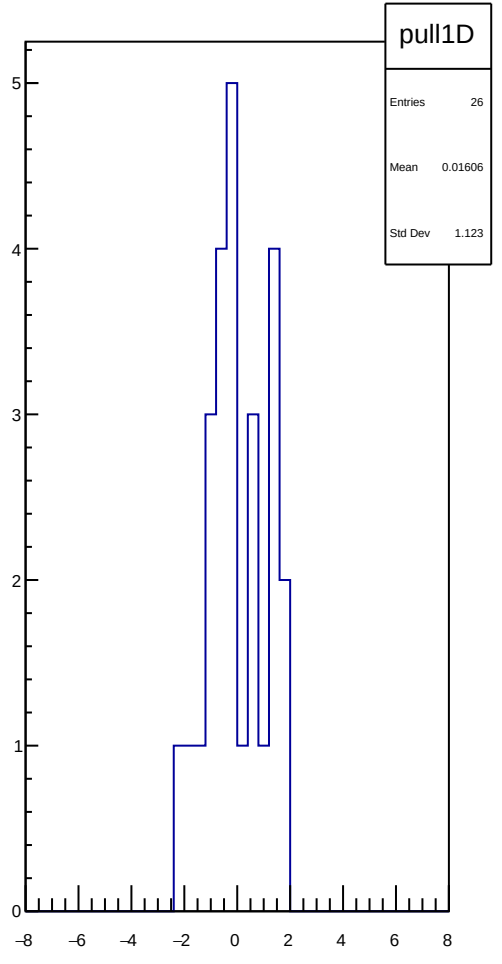

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.3076 / 25
p0 13.64 ± 4.68
40
30
20
10
0
−10
−20
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 45.65
Std Dev 10.03
0.3
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 26
Mean −0.002017
Std Dev 0.1087
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

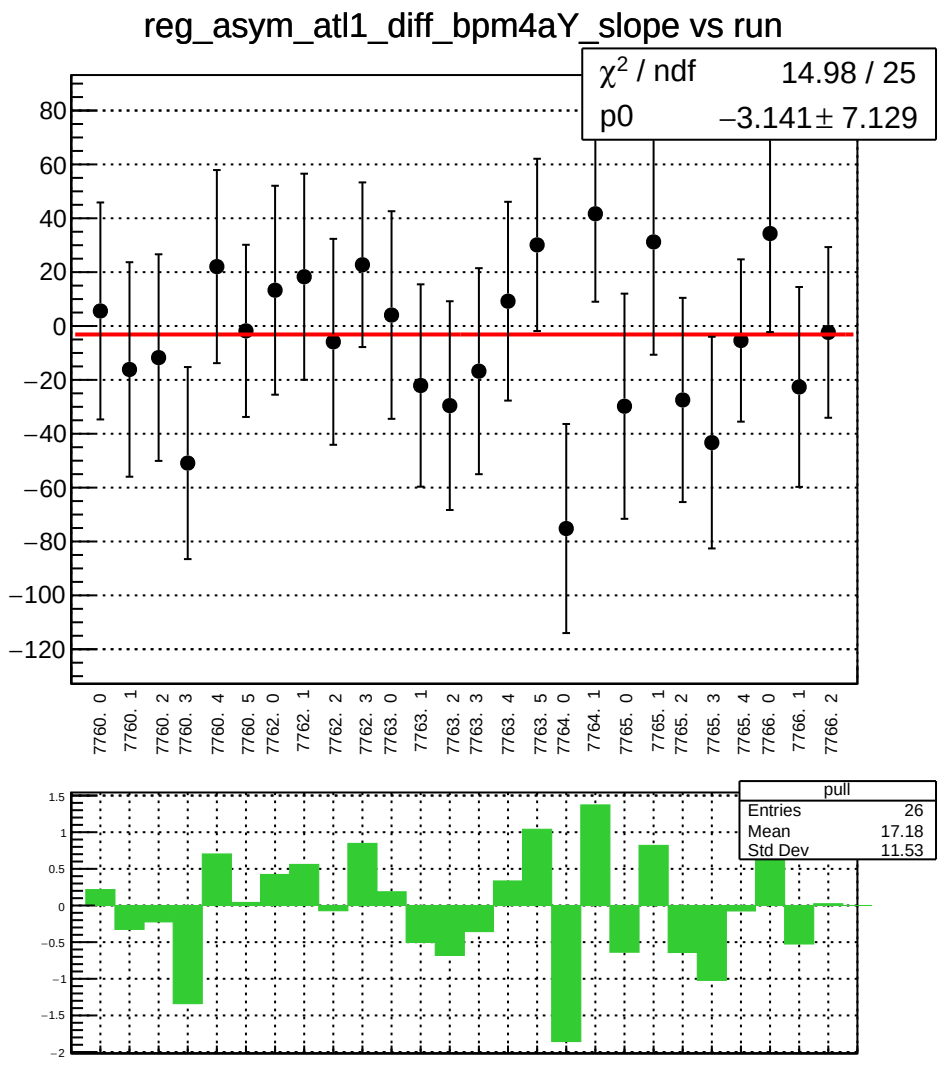

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 0.4931 / 25
p0 −42.12 ± 4.065
−20
−30
−40
−50
−60
−70
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −5.378
Std Dev 24.47
0.4
0.3
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 26
Mean −0.008035
Std Dev 0.1375
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

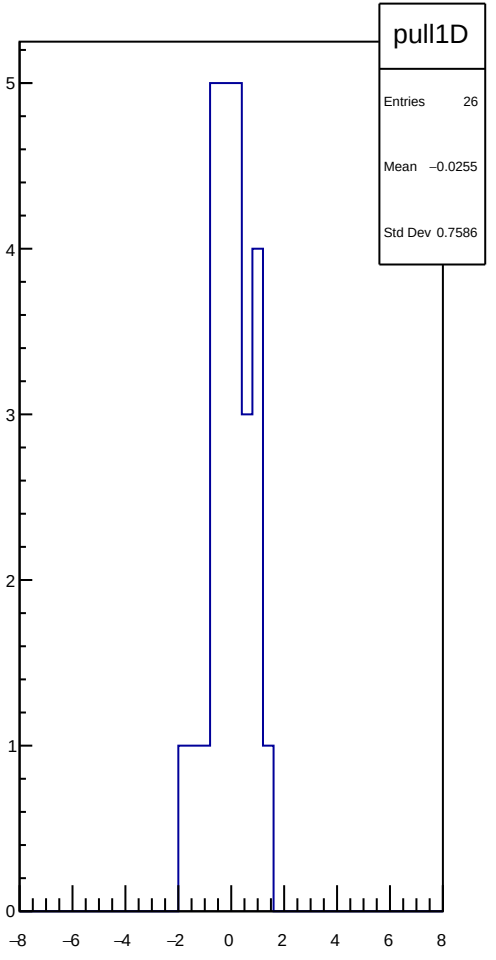

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.4428 / 25
p0 18.55 ± 5.274
50
40
30
20
10
0
−10
−20
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −15.46
Std Dev 13.88
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 26
Mean 0.00215
Std Dev 0.1305
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

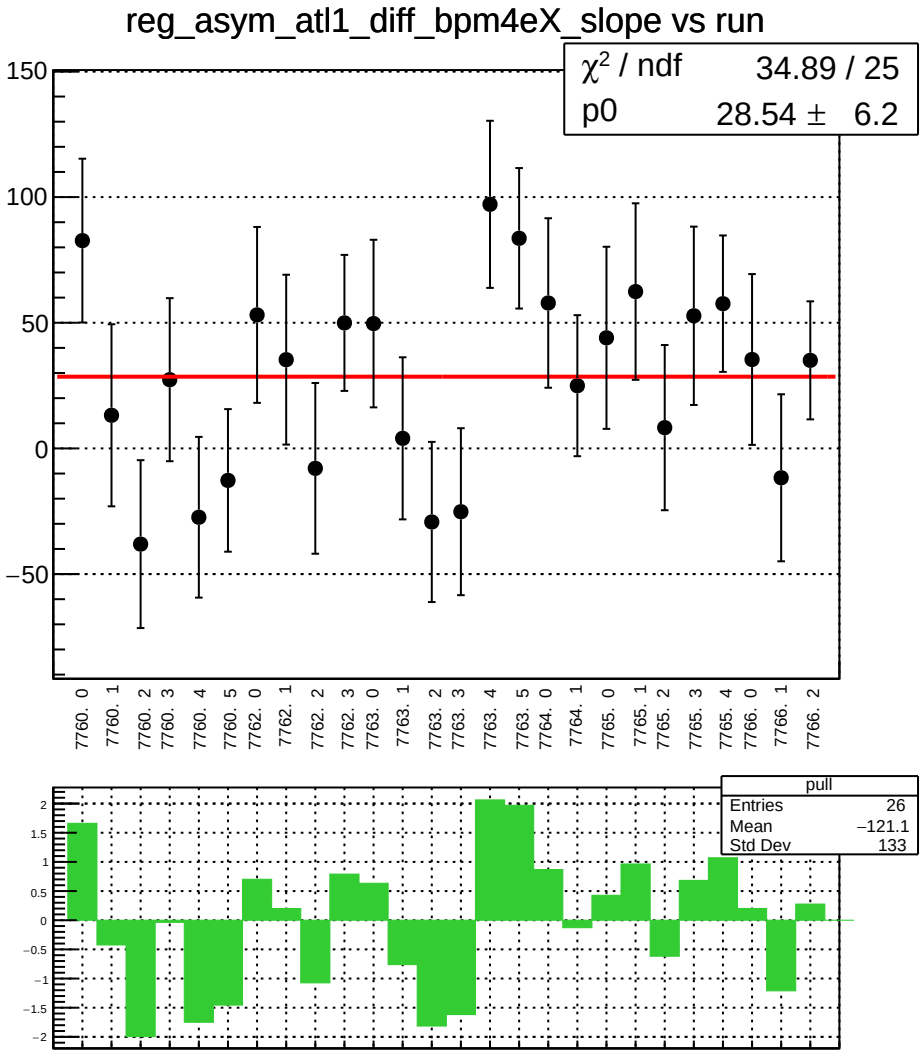

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 0.8437 / 25
p0 −0.1471± 0.1446
1
0.5
0
−0.5
−1
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 138.4
Std Dev 127.1
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 26
Mean 0.002213
Std Dev 0.1801
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

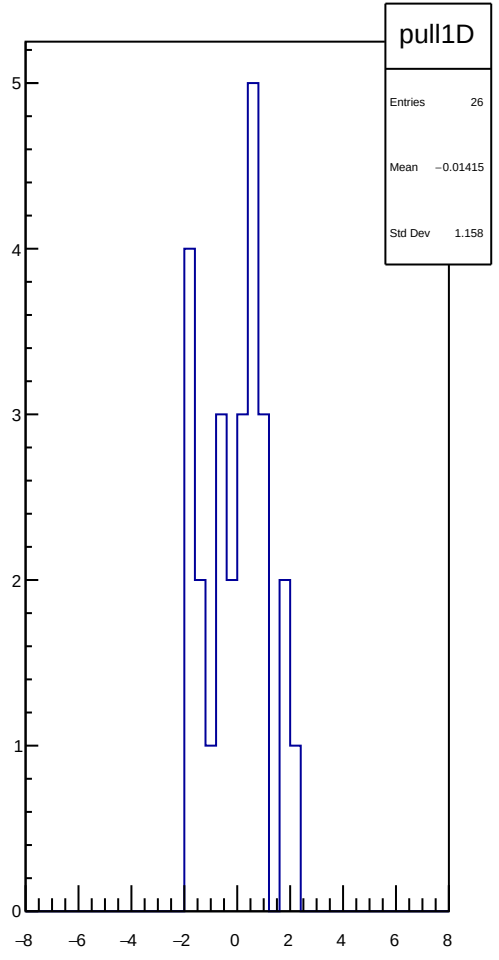

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 32.8 / 25
p0 5.974 ± 6.69
100
50
0
−50
−100
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −95.07
Std Dev 107
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

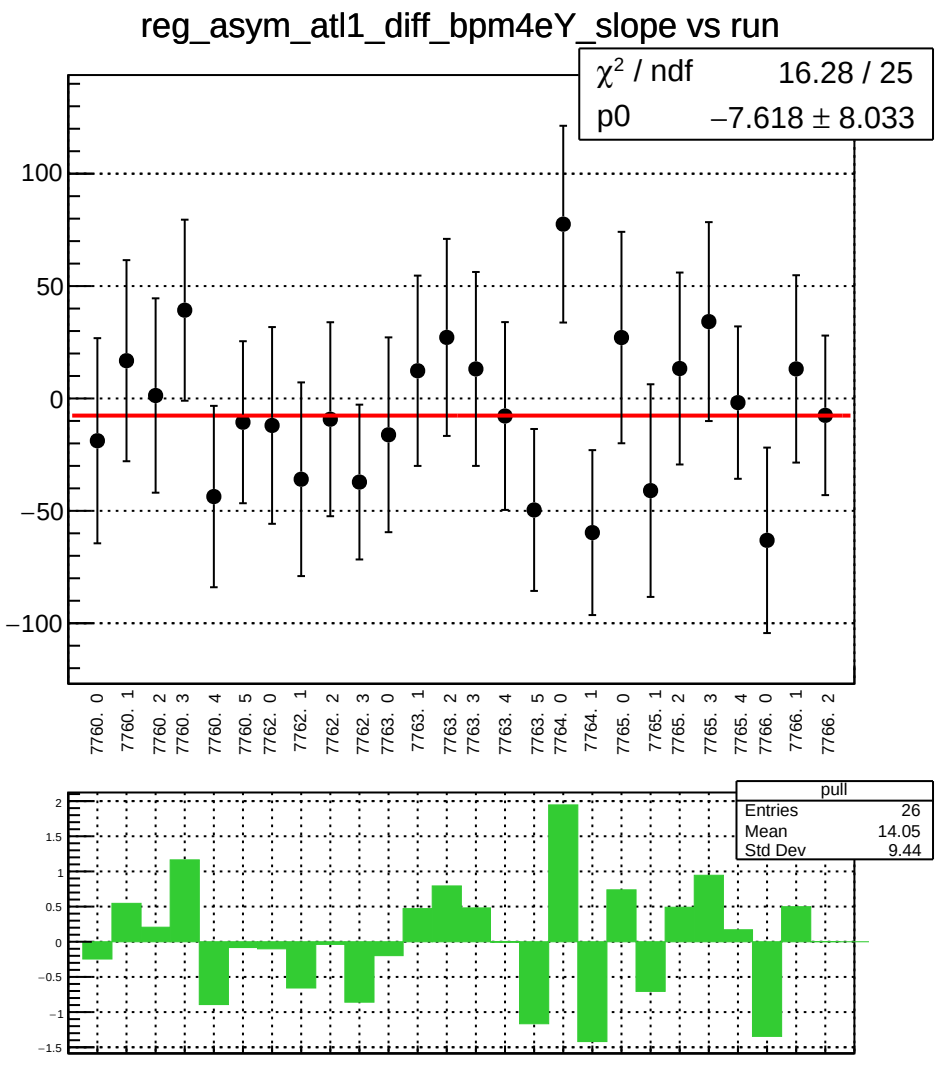

pull1D
Entries 26
Mean 0.01606
Std Dev 1.123
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

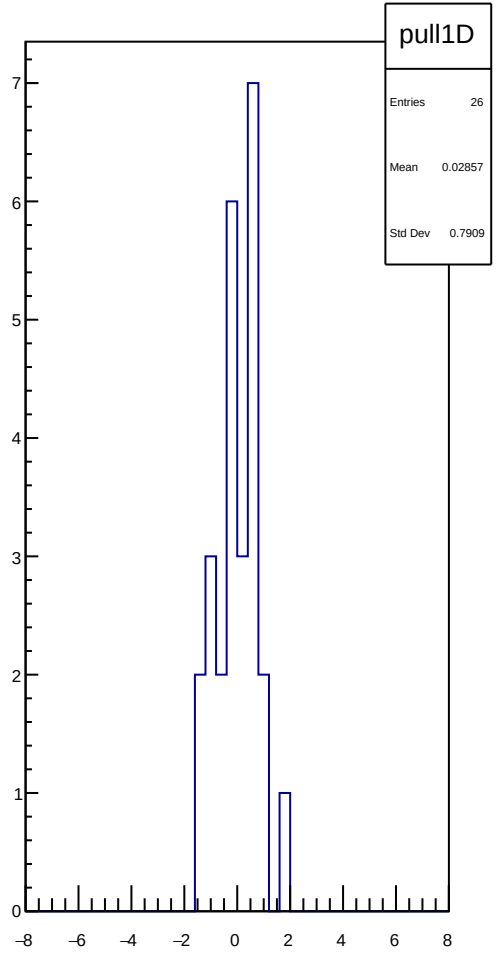

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 14.98 / 25
p0 −3.141 ± 7.129
80
60
40
20
0
−20
−40
−60
−80
−100
−120
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 17.18
Std Dev 11.53
1.5
1
0.5
0
−0.5
−1
−1.5
−2

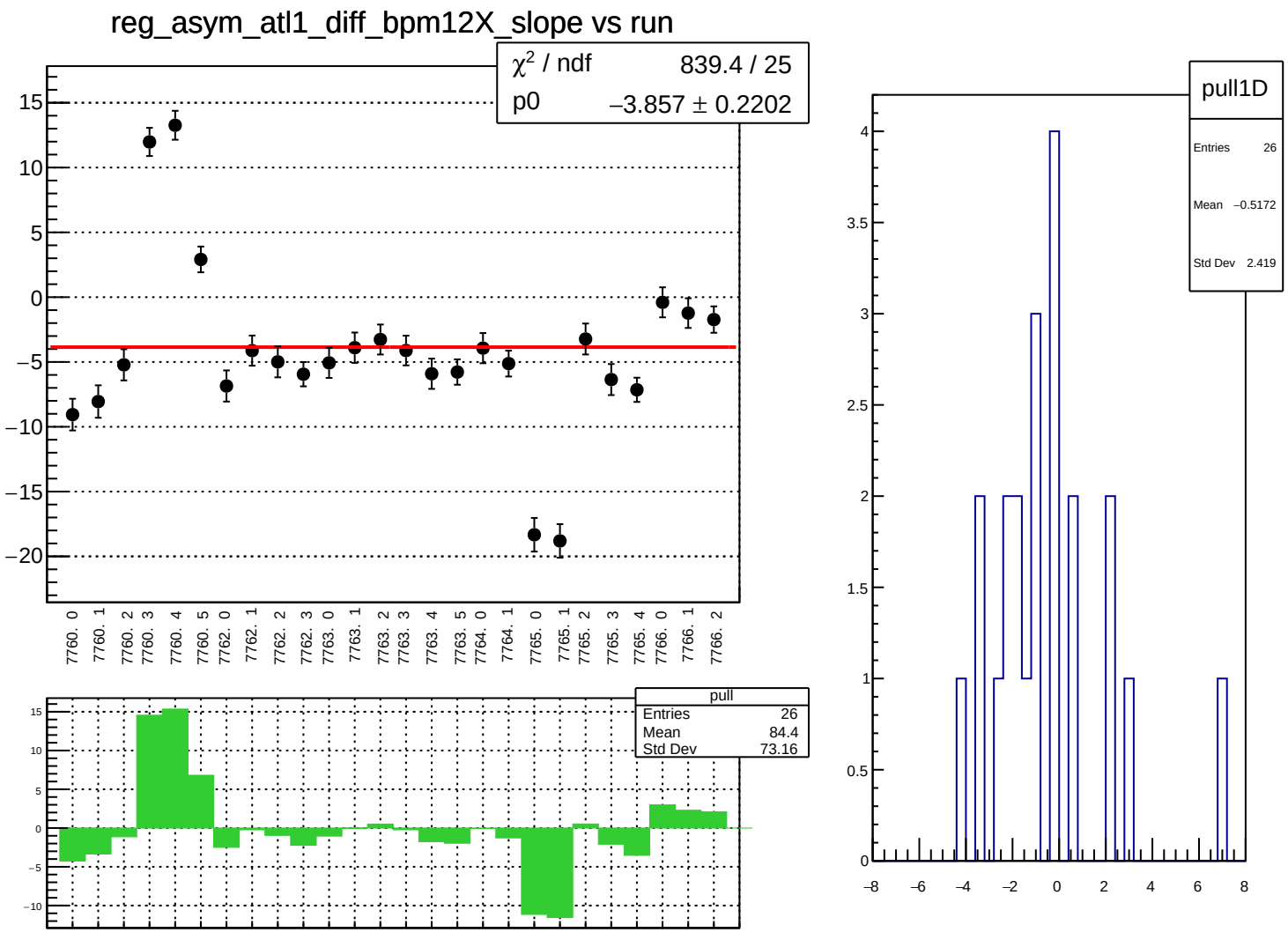

pull1D
Entries 26
Mean −0.0255
Std Dev 0.7586
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

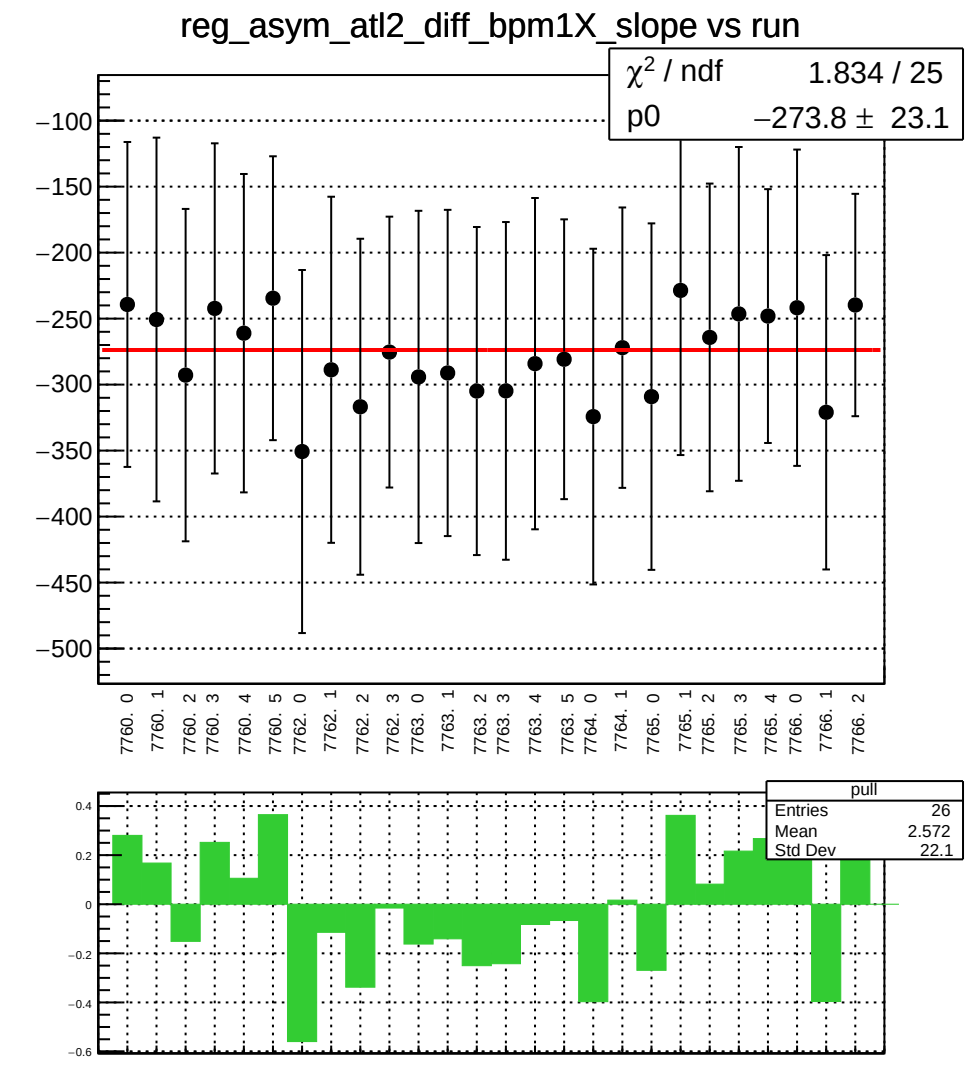

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 34.89 / 25
p0 28.54 ± 6.2
150
100
50
0
−50
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −121.1
Std Dev 133
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

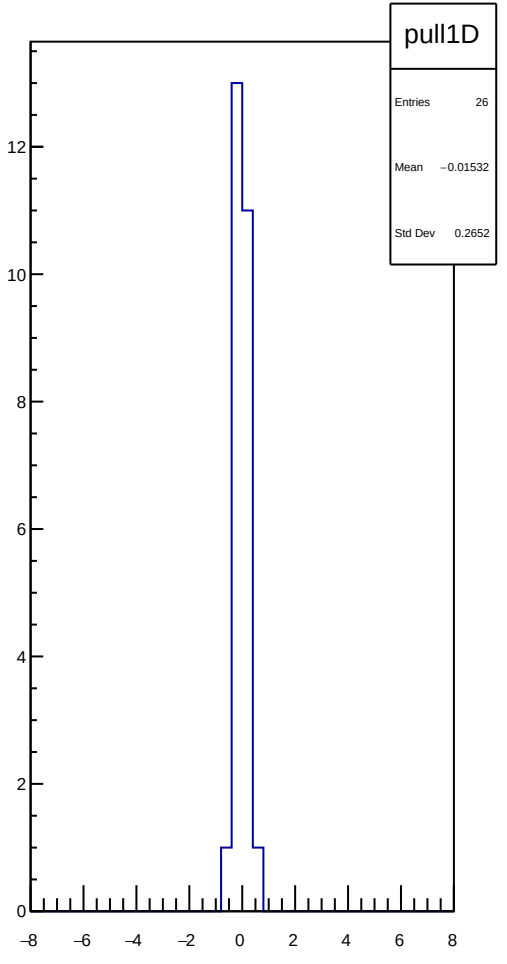

pull1D
Entries 26
Mean −0.01415
Std Dev 1.158
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

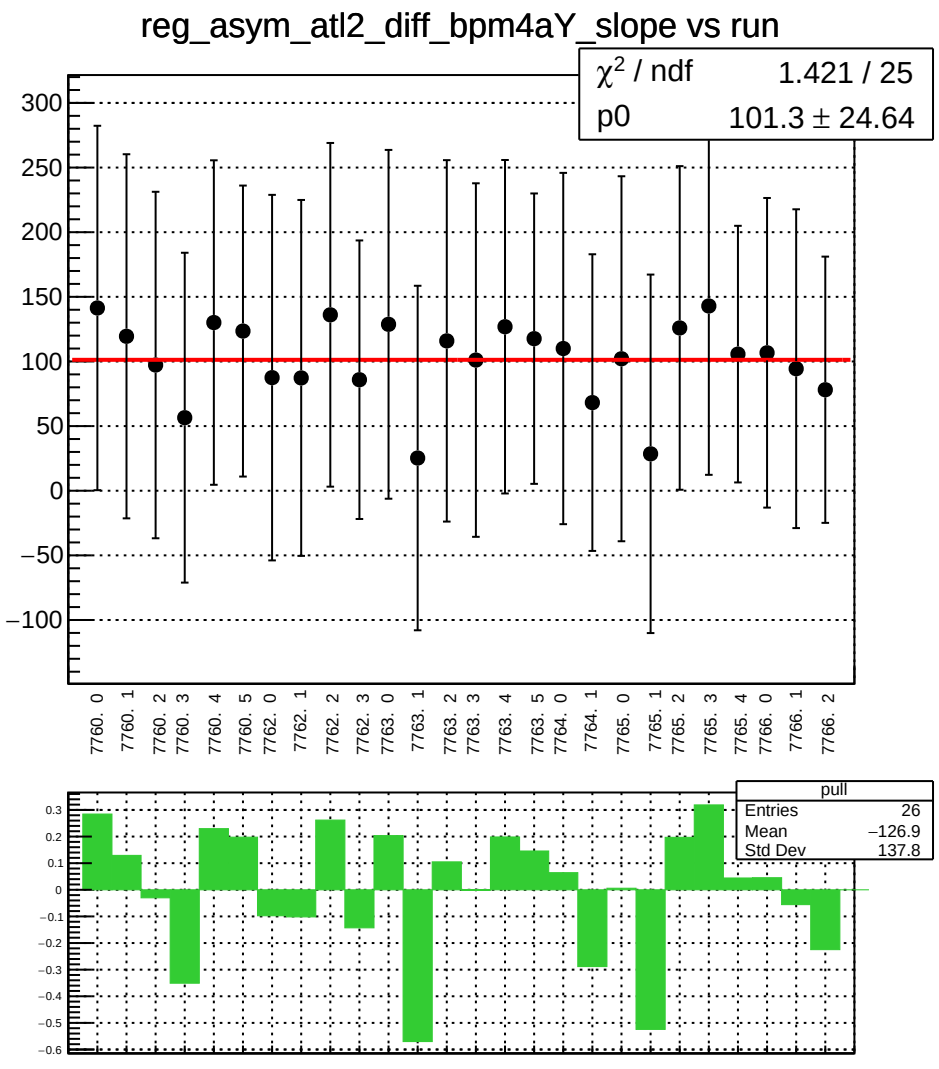

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 16.28 / 25
p0 −7.618 ± 8.033
100
50
0
−50
−100
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 14.05
Std Dev 9.44
2
1.5
1
0.5
0
−0.5
−1
−1.5

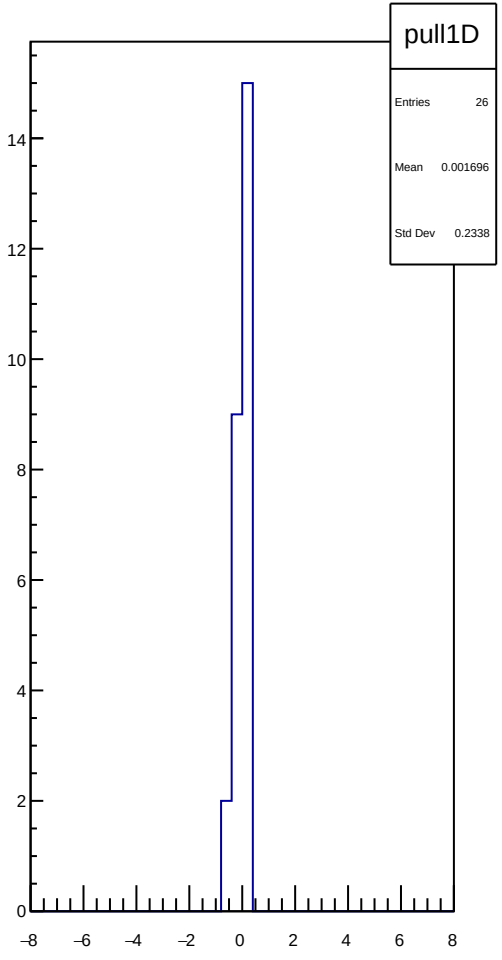

pull1D
Entries 26
Mean 0.02857
Std Dev 0.7909
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

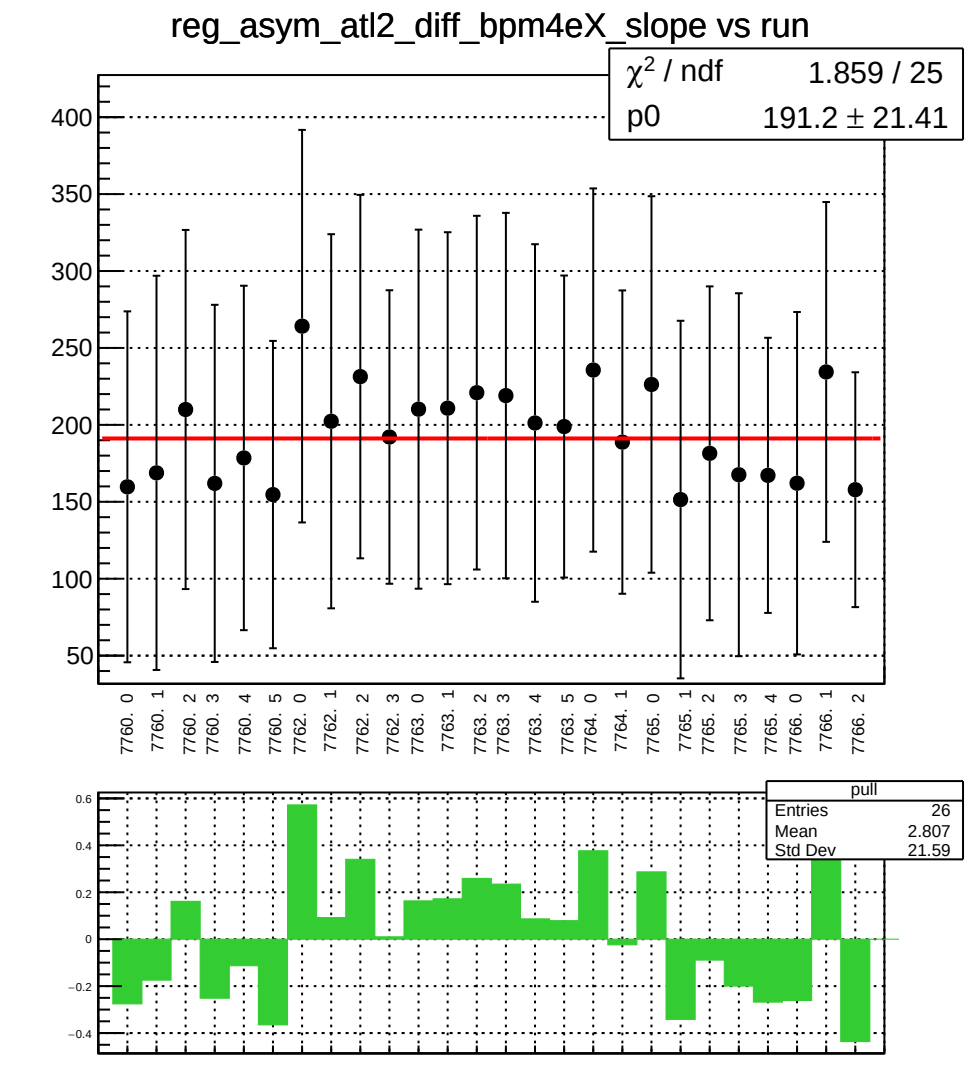

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 839.4 / 25
p0 −3.857 ± 0.2202
15
10
5
0
−5
−10
−15
−20
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 84.4
Std Dev 73.16
pull1D
Entries 26
Mean −0.5172
Std Dev 2.419
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

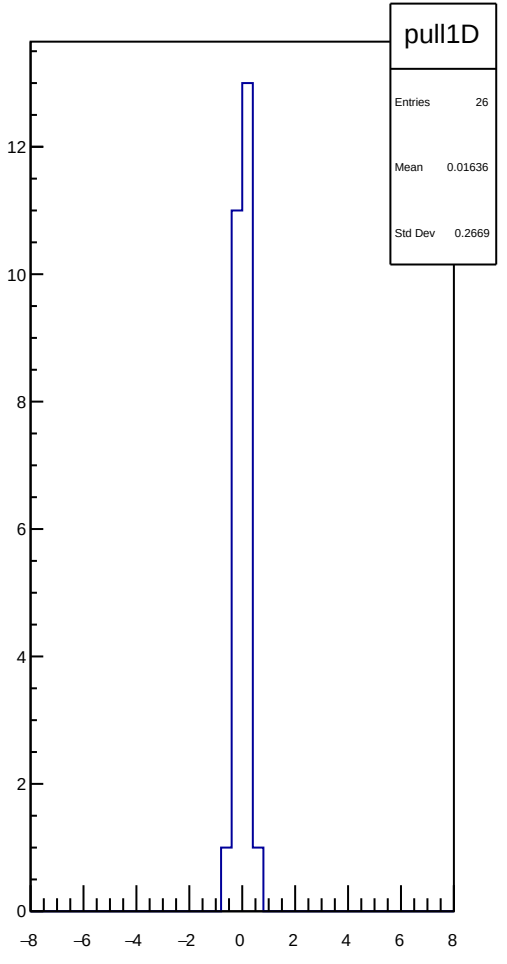

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 1.834 / 25
p0 −273.8 ± 23.1
−100
−150
−200
−250
−300
−350
−400
−450
−500
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 2.572
Std Dev 22.1
0.4
0.2
0
−0.2
−0.4
−0.6

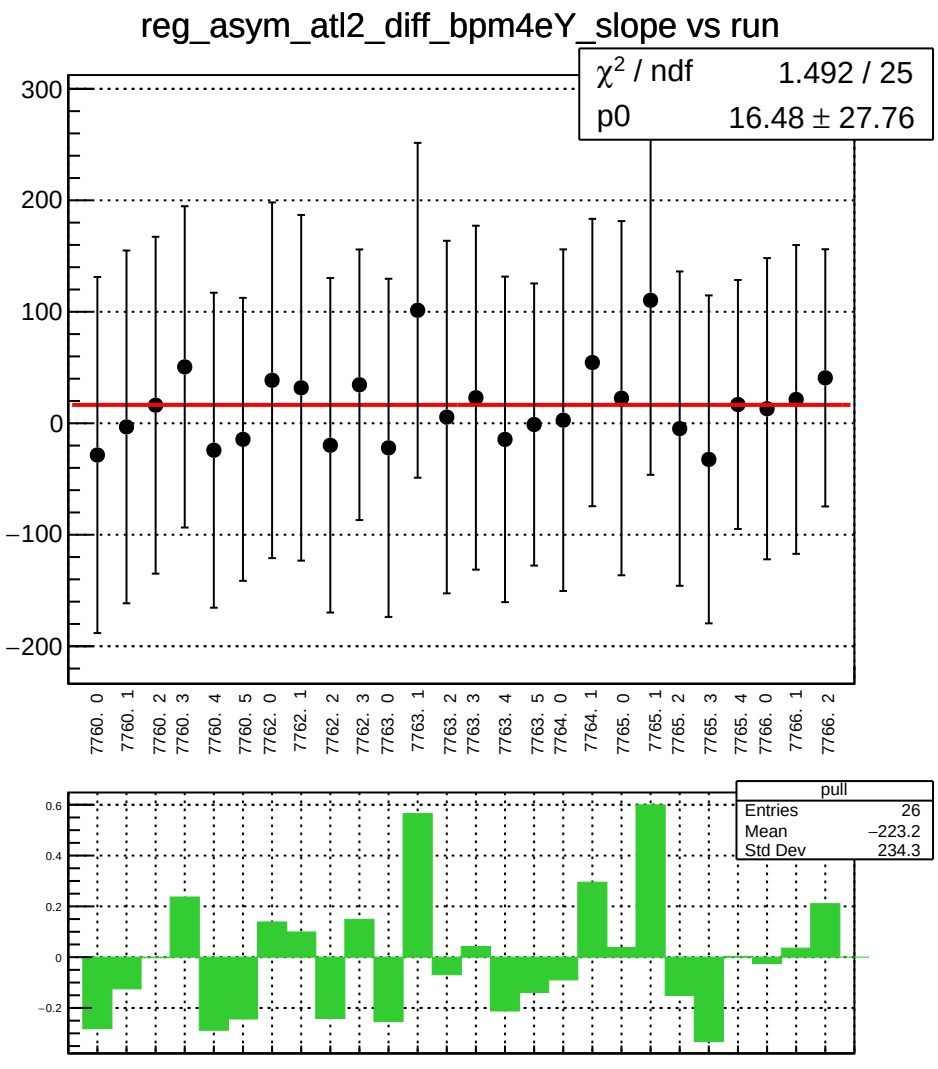

pull1D
Entries 26
Mean −0.01532
Std Dev 0.2652
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

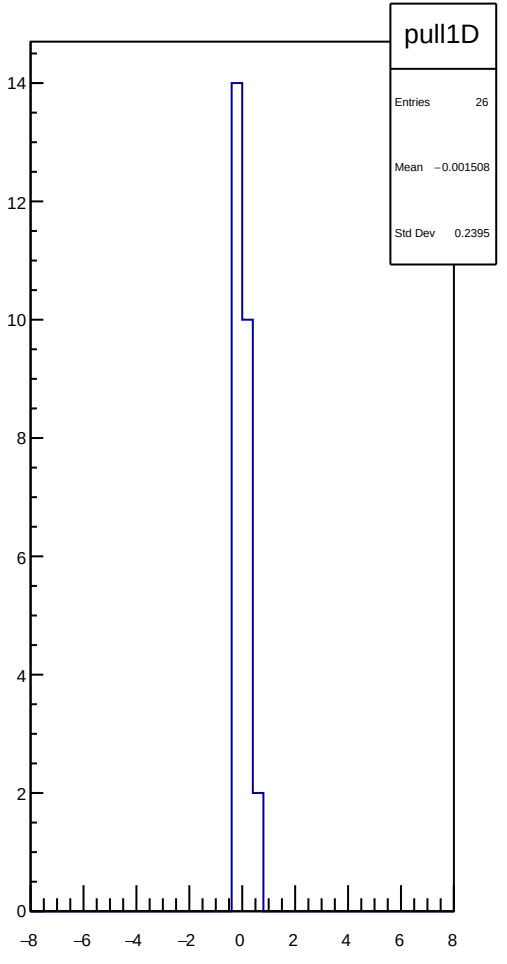

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 1.421 / 25
p0 101.3 ± 24.64
300
250
200
150
100
50
0
−50
−100
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −126.9
Std Dev 137.8
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6

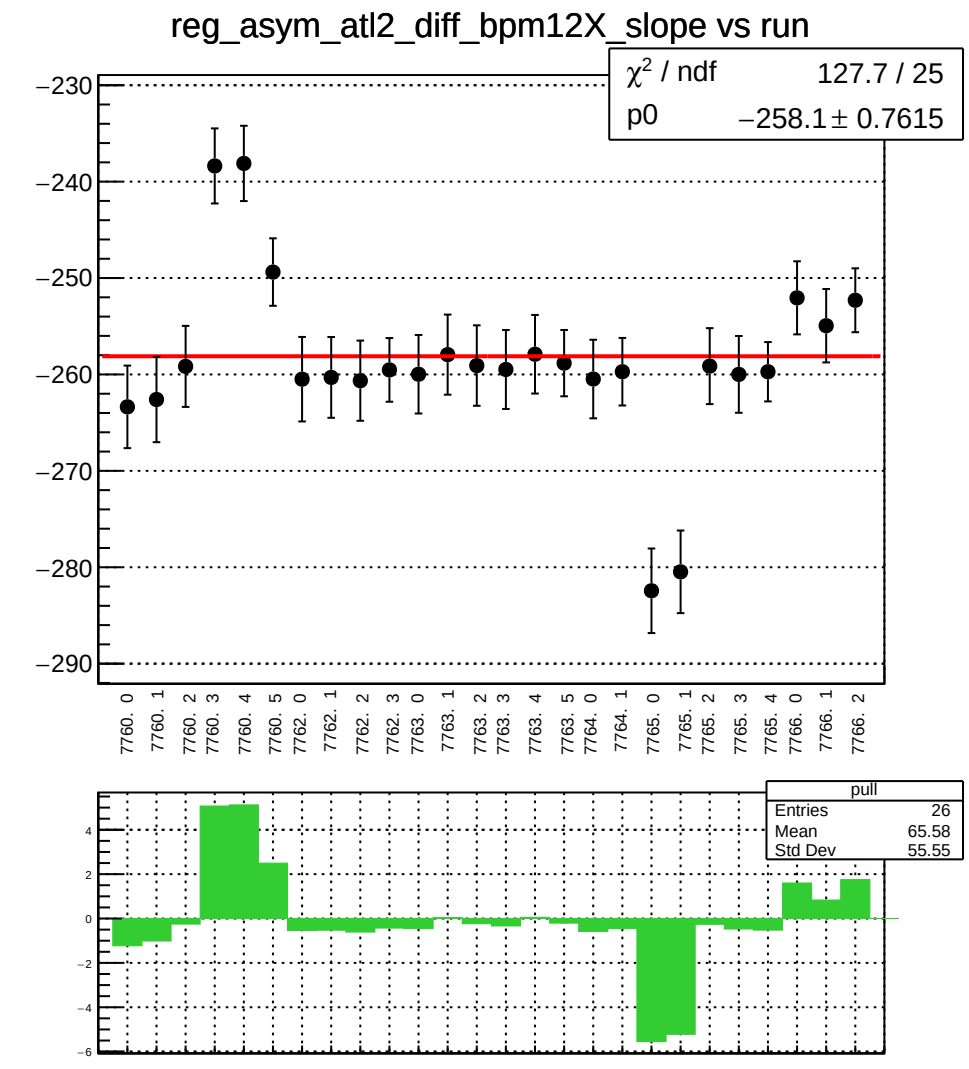

pull1D
Entries 26
Mean 0.001696
Std Dev 0.2338
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

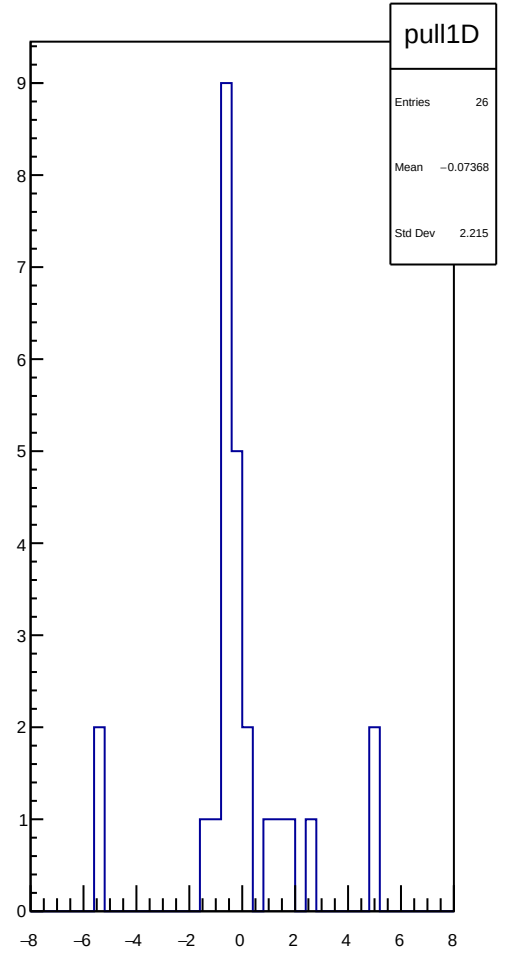

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 1.859 / 25
p0 191.2 ± 21.41
400
350
300
250
200
150
100
50
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 2.807
Std Dev 21.59
0.6
0.4
0.2
0
−0.2
−0.4

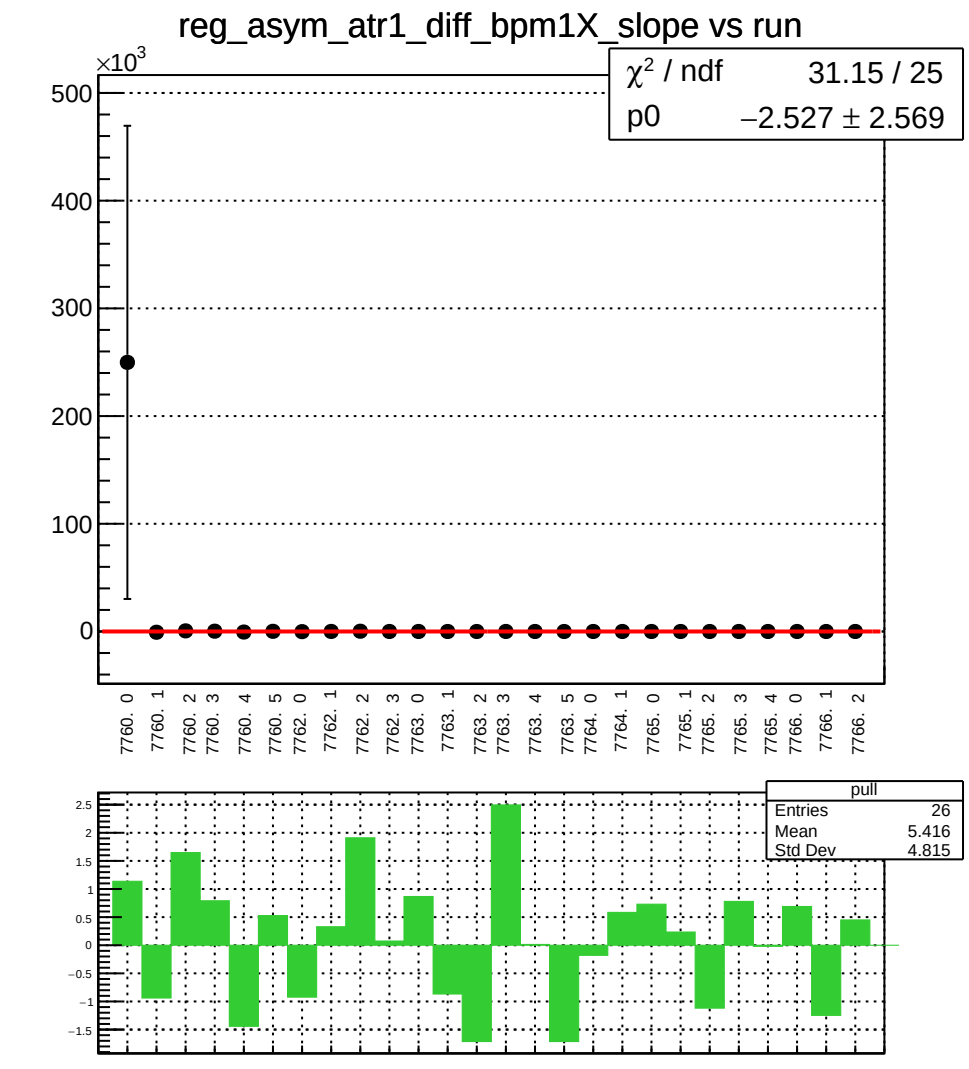

pull1D
Entries 26
Mean 0.01636
Std Dev 0.2669
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

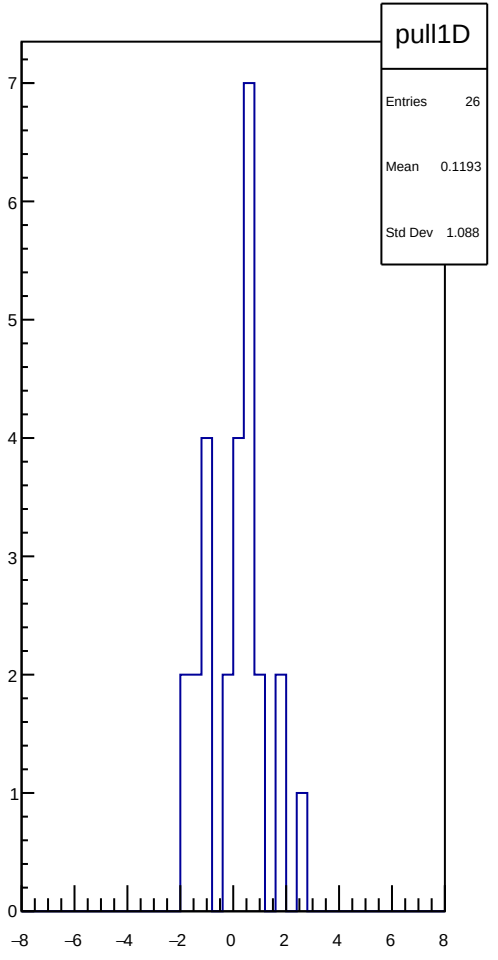

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 1.492 / 25
p0 16.48 ± 27.76
300
200
100
0
−100
−200
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −223.2
Std Dev 234.3
0.6
0.4
0.2
0
−0.2

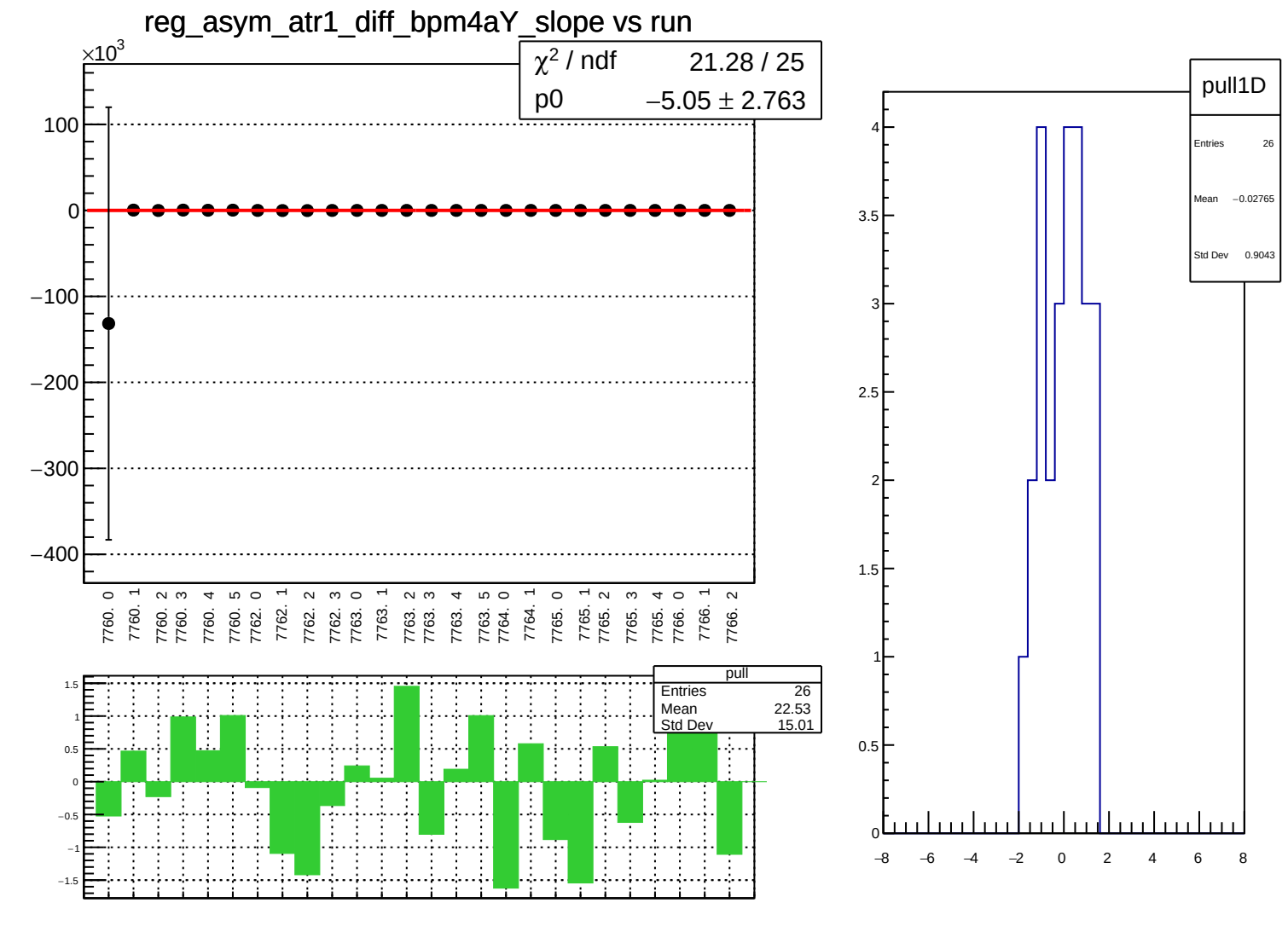

pull1D
Entries 26
Mean −0.001508
Std Dev 0.2395
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

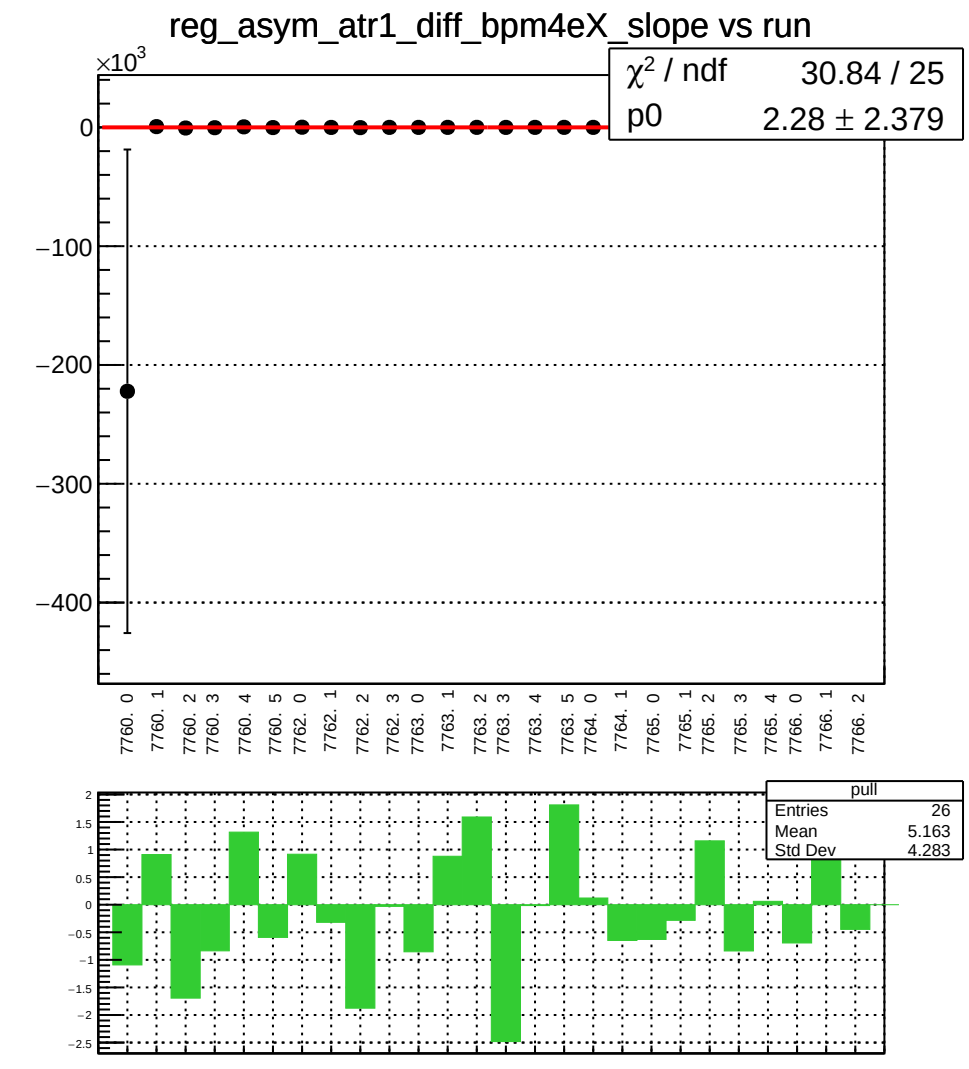

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 127.7 / 25
p0 −258.1 ± 0.7615
−230
−240
−250
−260
−270
−280
−290
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 65.58
Std Dev 55.55
4
2
0
−2
−4
−6

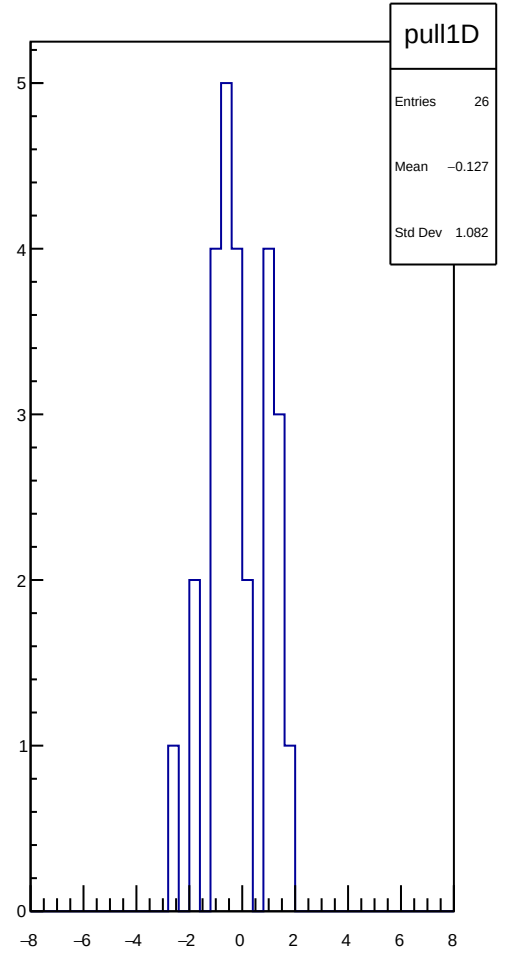

pull1D
Entries 26
Mean −0.07368
Std Dev 2.215
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

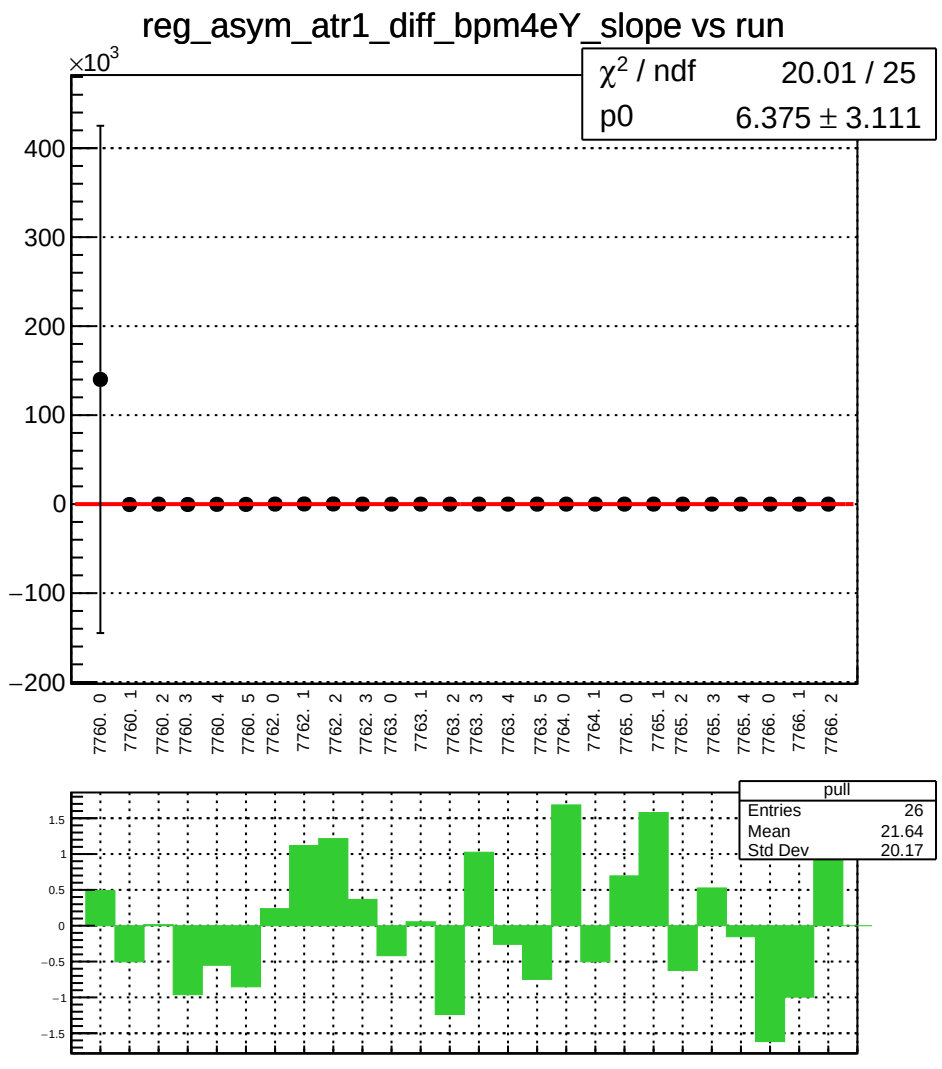

reg_asym_atr1_diff_bpm1X_slope vs run
×10^3
χ² / ndf 31.15 / 25
p0 −2.527 ± 2.569
500
400
300
200
100
0
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 5.416
Std Dev 4.815
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

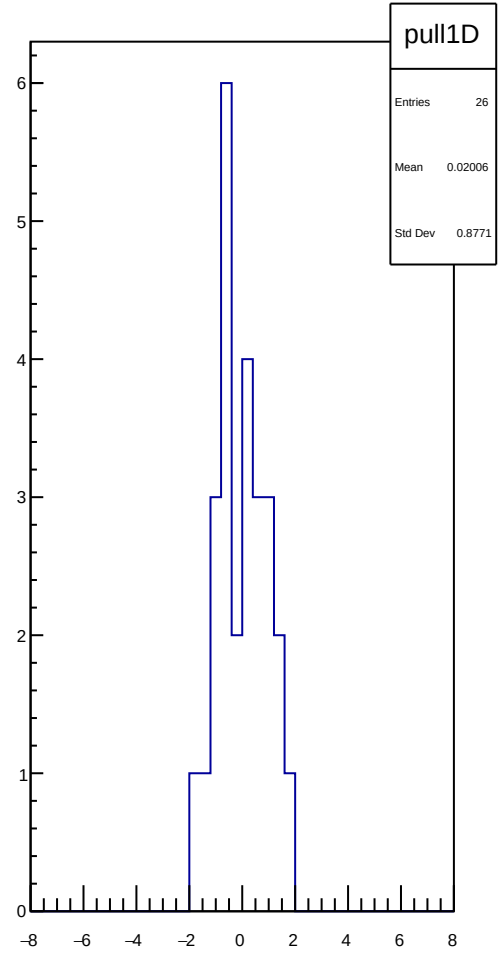

pull1D
Entries 26
Mean 0.1193
Std Dev 1.088
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

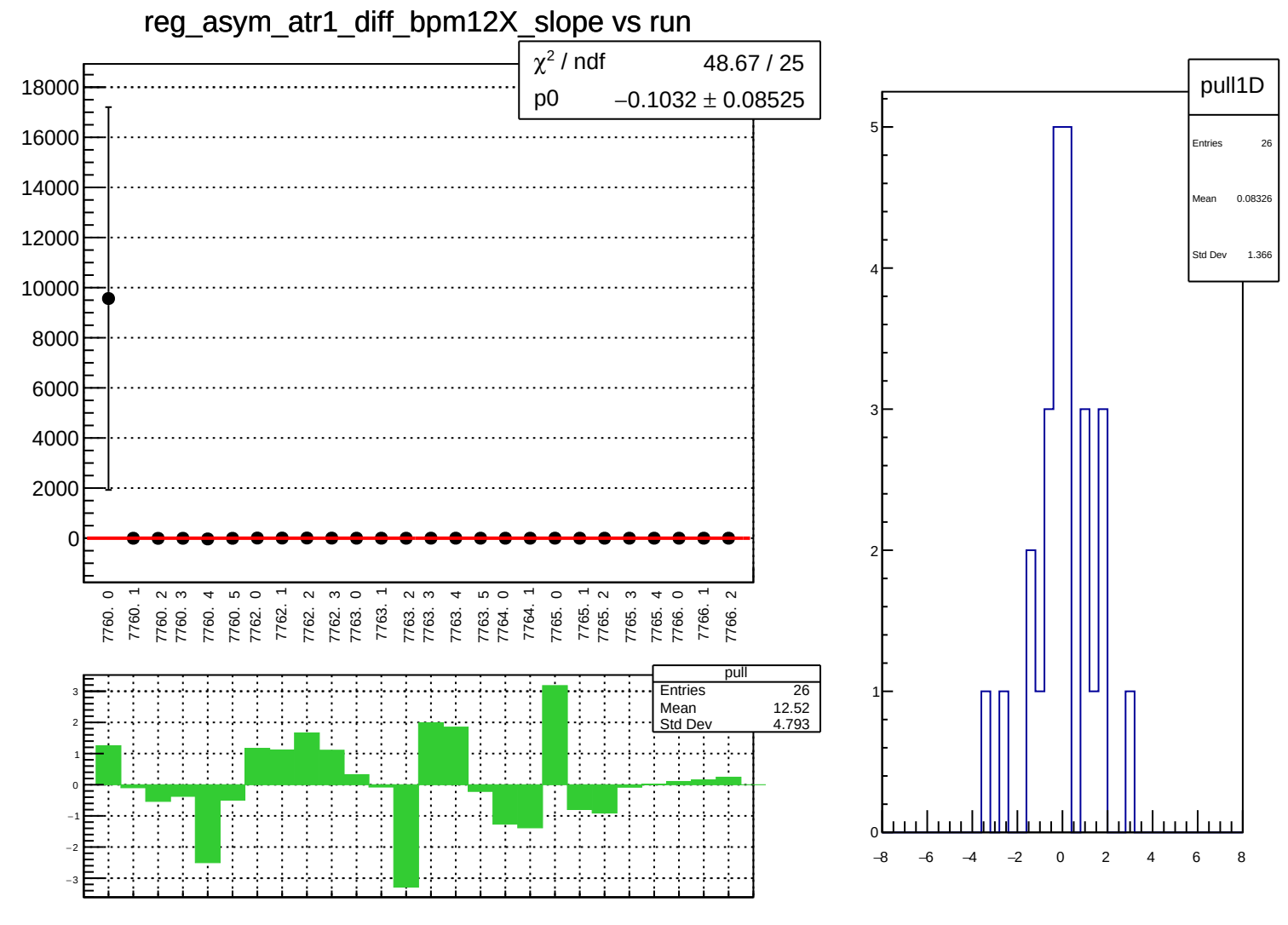

reg_asym_atr1_diff_bpm4aY_slope vs run
×10^3
χ^2 / ndf 21.28 / 25
p0 −5.05 ± 2.763
100
0
−100
−200
−300
−400
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 22.53
Std Dev 15.01
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 26
Mean −0.02765
Std Dev 0.9043
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

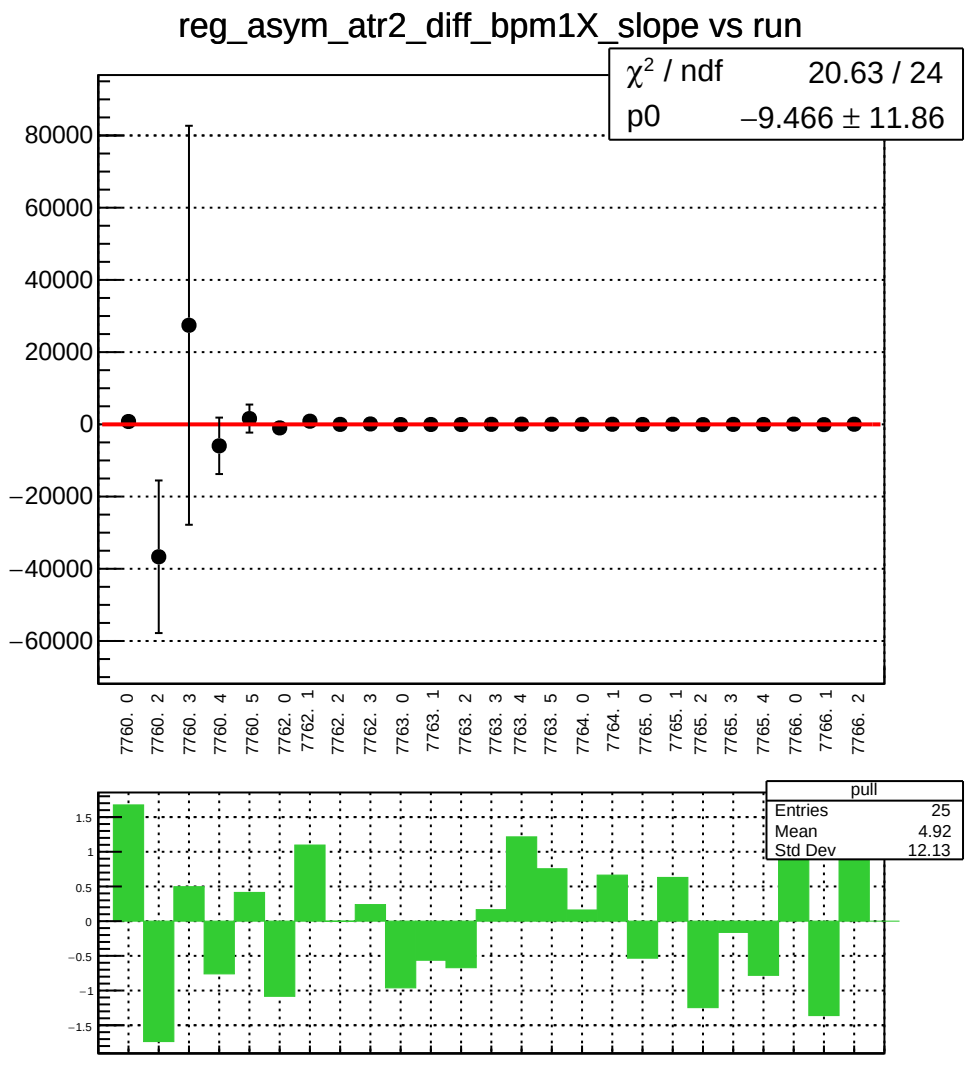

reg_asym_atr1_diff_bpm4eX_slope vs run
×10^3
χ² / ndf 30.84 / 25
p0 2.28 ± 2.379
0
−100
−200
−300
−400
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 5.163
Std Dev 4.283
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

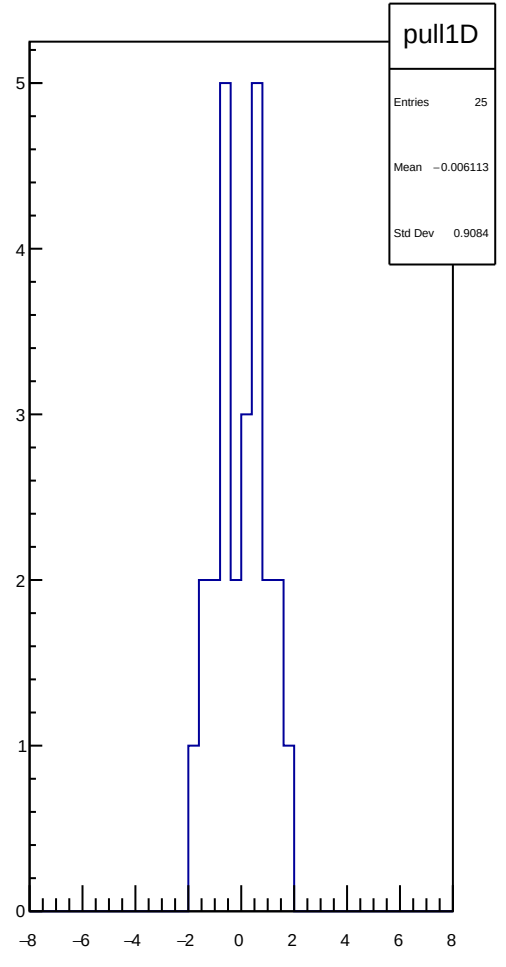

pull1D
Entries 26
Mean −0.127
Std Dev 1.082
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

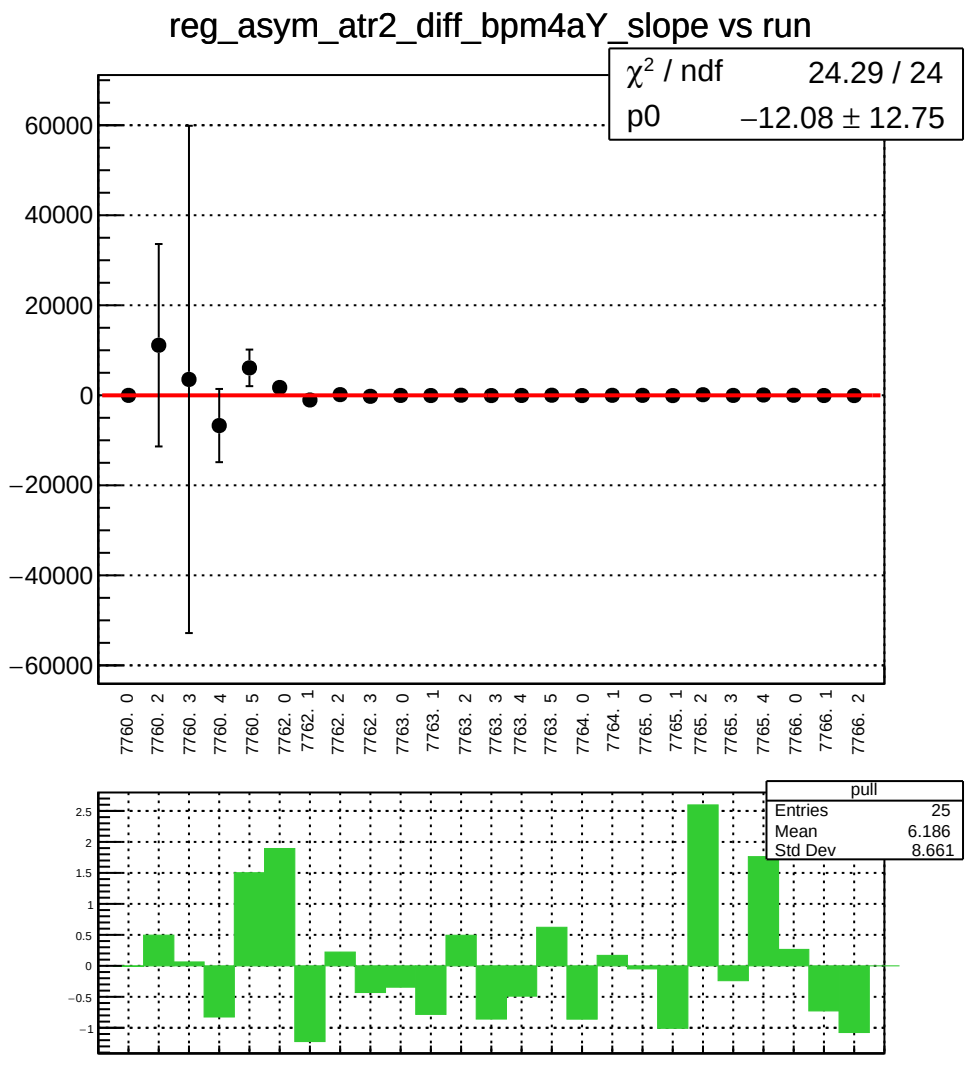

reg_asym_atr1_diff_bpm4eY_slope vs run
×10^3
χ² / ndf 20.01 / 25
p0 6.375 ± 3.111
400
300
200
100
0
−100
−200
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 21.64
Std Dev 20.17
1.5
1
0.5
0
−0.5
−1
−1.5

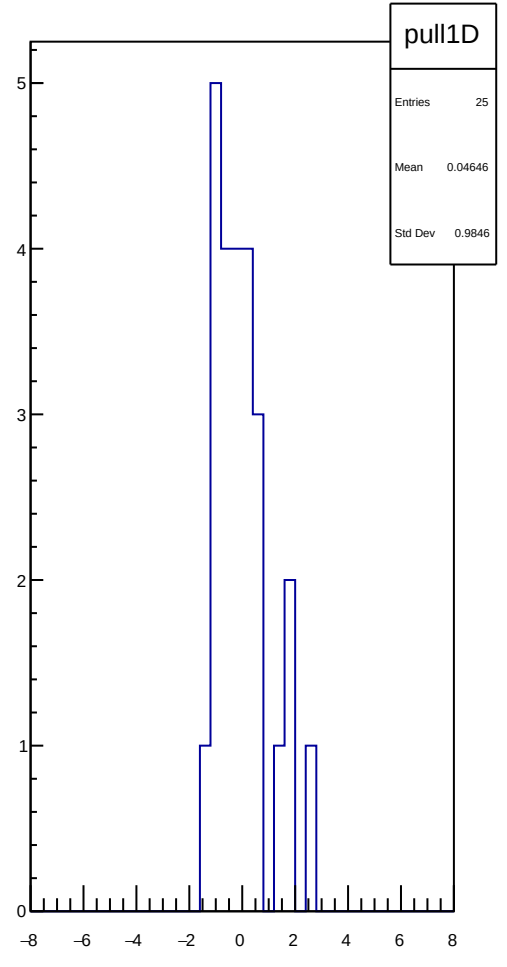

pull1D
Entries 26
Mean 0.02006
Std Dev 0.8771
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

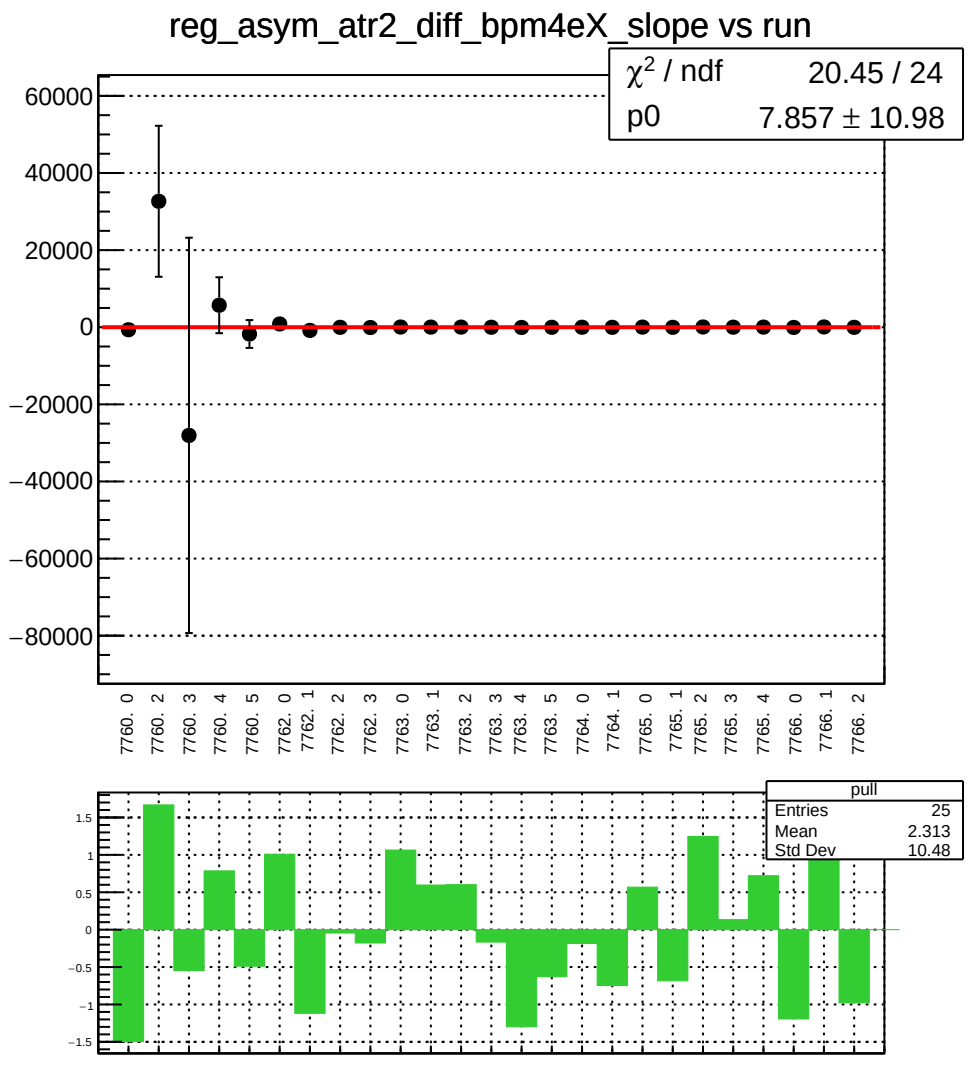

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 48.67 / 25
p0 −0.1032 ± 0.08525
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 12.52
Std Dev 4.793
pull1D
Entries 26
Mean 0.08326
Std Dev 1.366

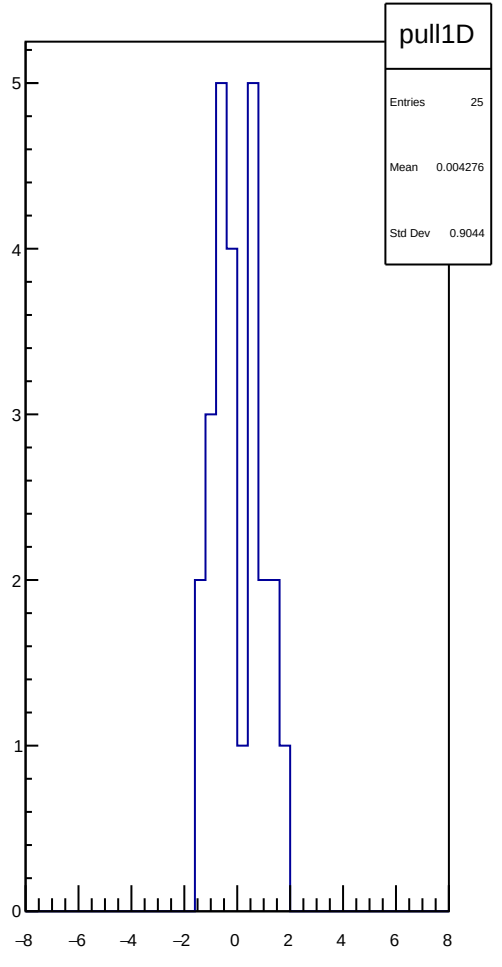

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 20.63 / 24
p0 −9.466 ± 11.86
80000
60000
40000
20000
0
−20000
−40000
−60000
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 4.92
Std Dev 12.13
1.5
1
0.5
0
−0.5
−1
−1.5

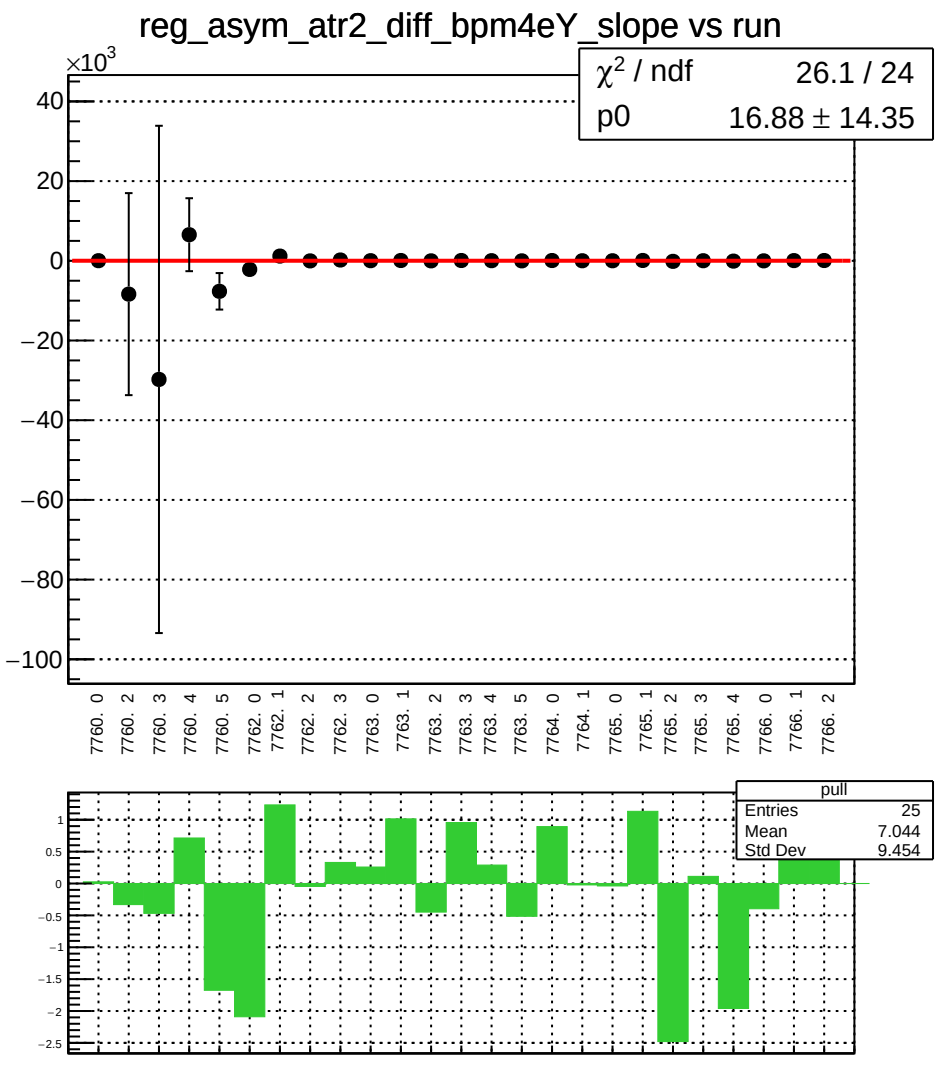

pull1D
Entries 25
Mean −0.006113
Std Dev 0.9084
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

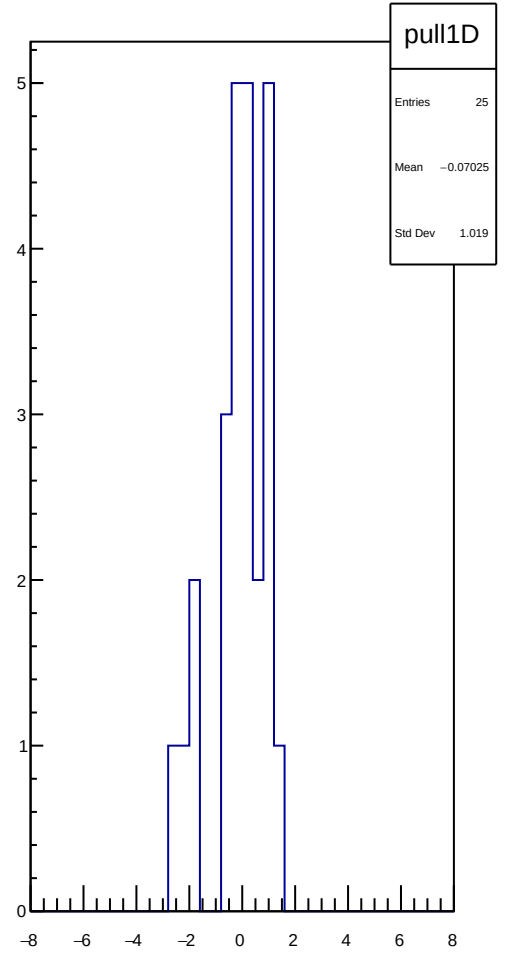

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 24.29 / 24
p0 −12.08 ± 12.75
60000
40000
20000
0
−20000
−40000
−60000
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 6.186
Std Dev 8.661
2.5
2
1.5
1
0.5
0
−0.5
−1

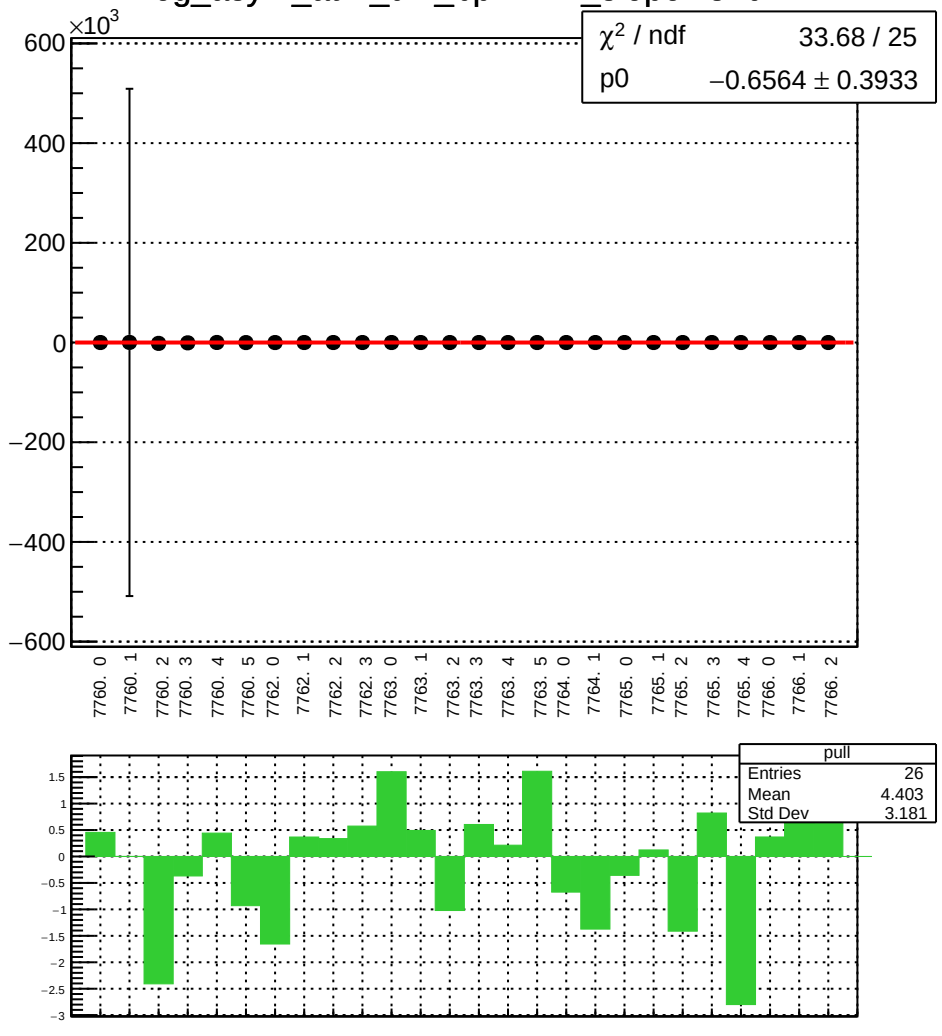

pull1D
Entries 25
Mean 0.04646
Std Dev 0.9846
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

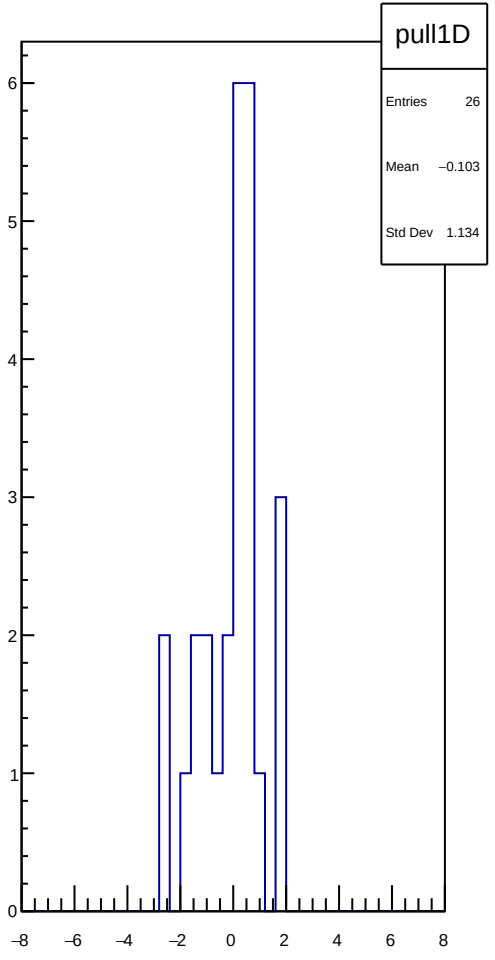

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 20.45 / 24
p0 7.857 ± 10.98
60000
40000
20000
0
−20000
−40000
−60000
−80000
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 2.313
Std Dev 10.48
1.5
1
0.5
0
−0.5
−1
−1.5

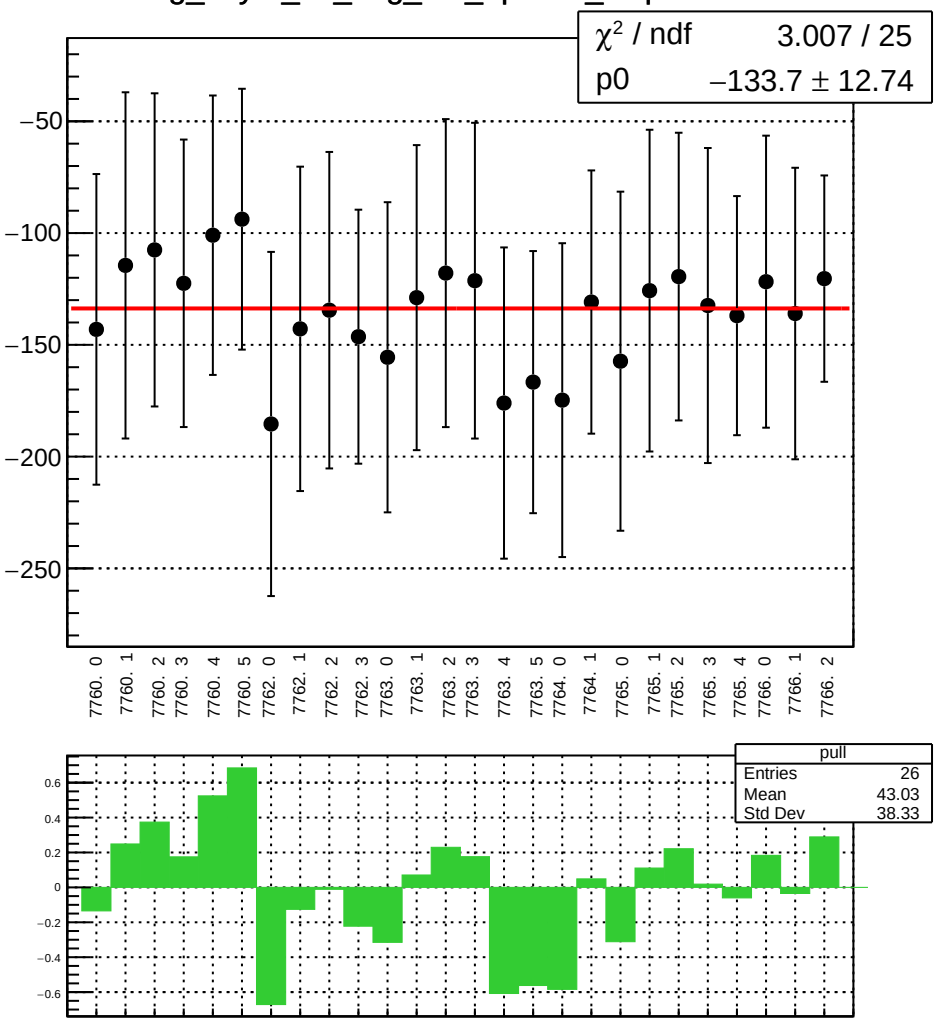

pull1D
Entries 25
Mean 0.004276
Std Dev 0.9044
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

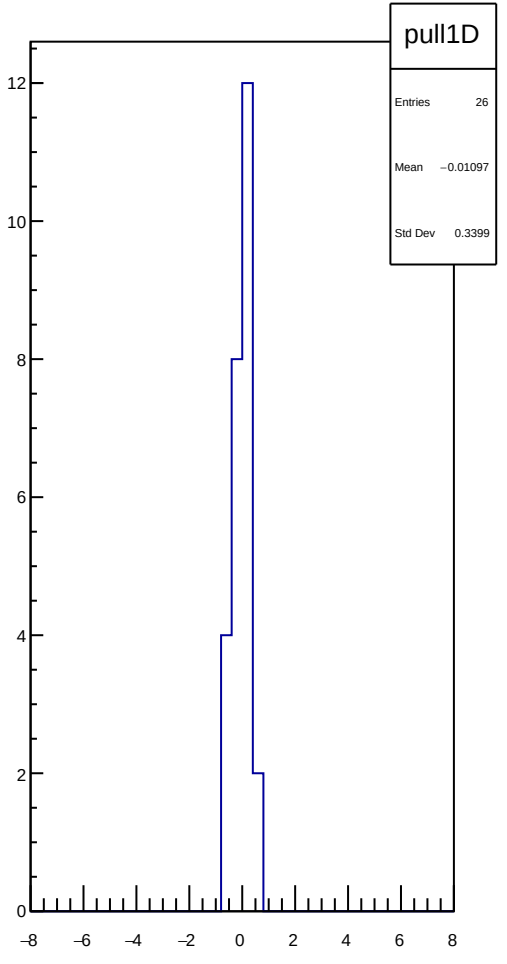

reg_asym_atr2_diff_bpm4eY_slope vs run
×10^3
χ² / ndf 26.1 / 24
p0 16.88 ± 14.35
40
20
0
−20
−40
−60
−80
−100
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 7.044
Std Dev 9.454
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

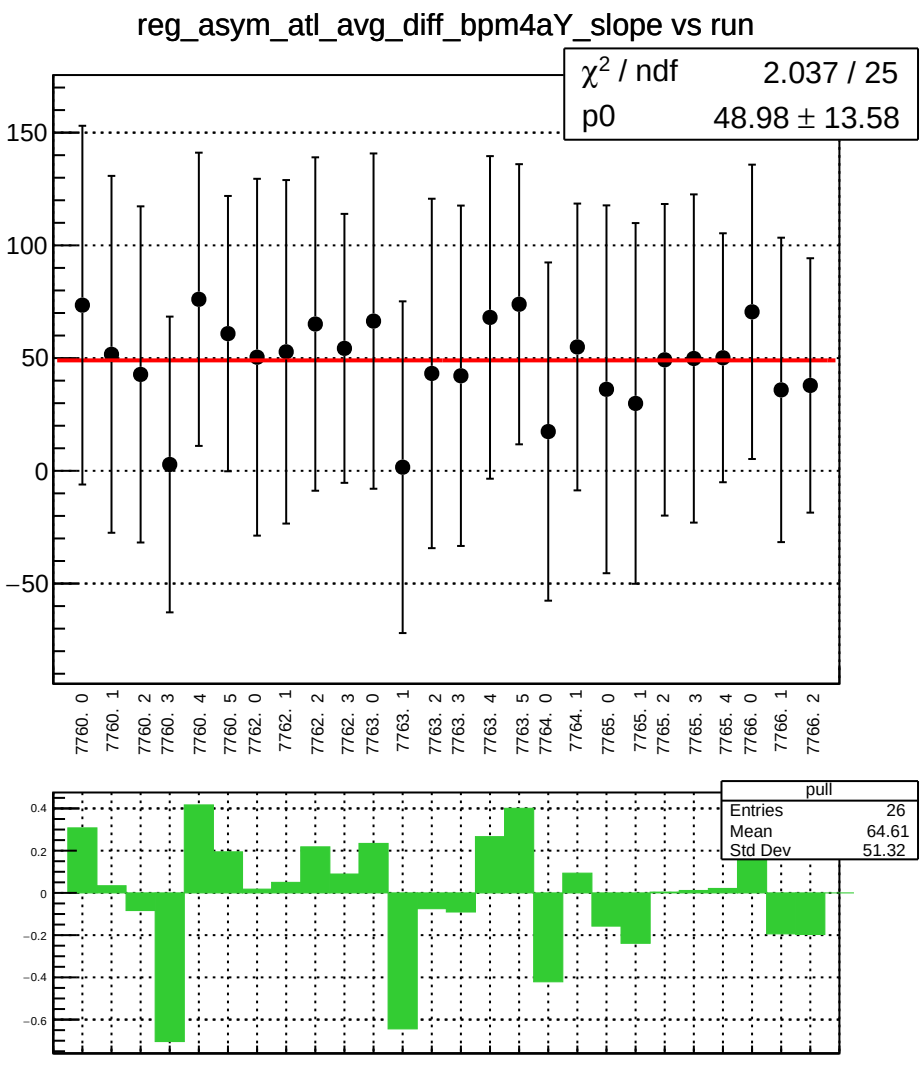

pull1D
Entries 25
Mean −0.07025
Std Dev 1.019
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

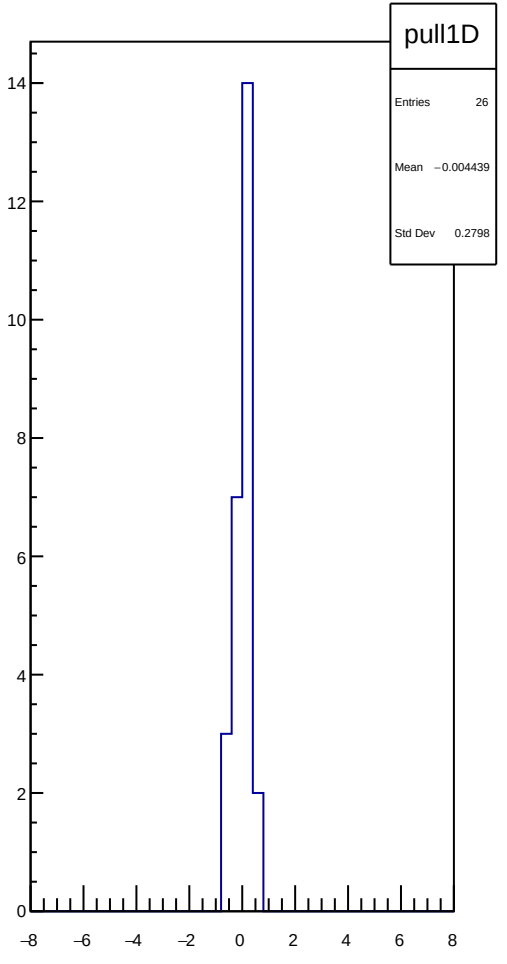

reg_asym_atr2_diff_bpm12X_slope vs run
×10^3
600
400
200
0
−200
−400
−600
χ² / ndf 33.68 / 25
p0 −0.6564 ± 0.3933
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 4.403
Std Dev 3.181
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

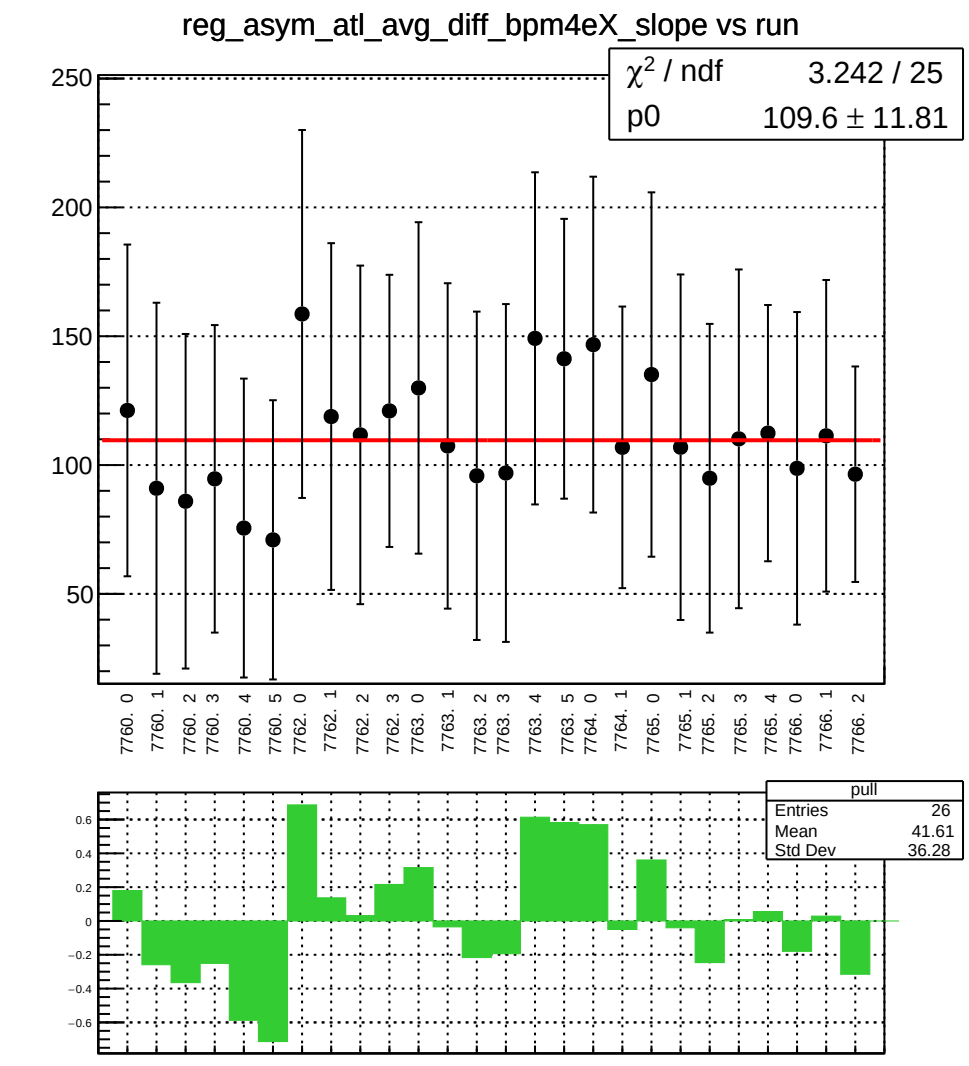

pull1D
Entries 26
Mean −0.103
Std Dev 1.134
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

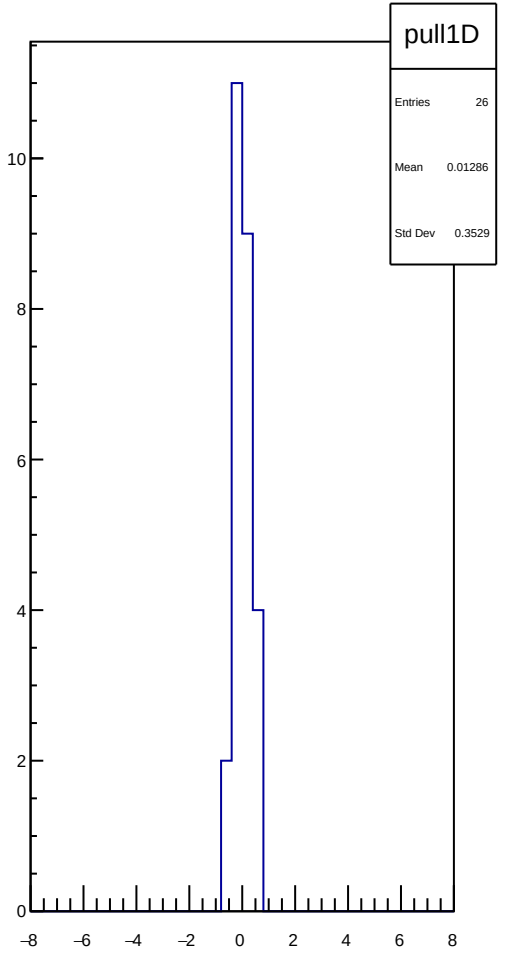

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 3.007 / 25
p0 −133.7 ± 12.74
−50
−100
−150
−200
−250
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 43.03
Std Dev 38.33
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

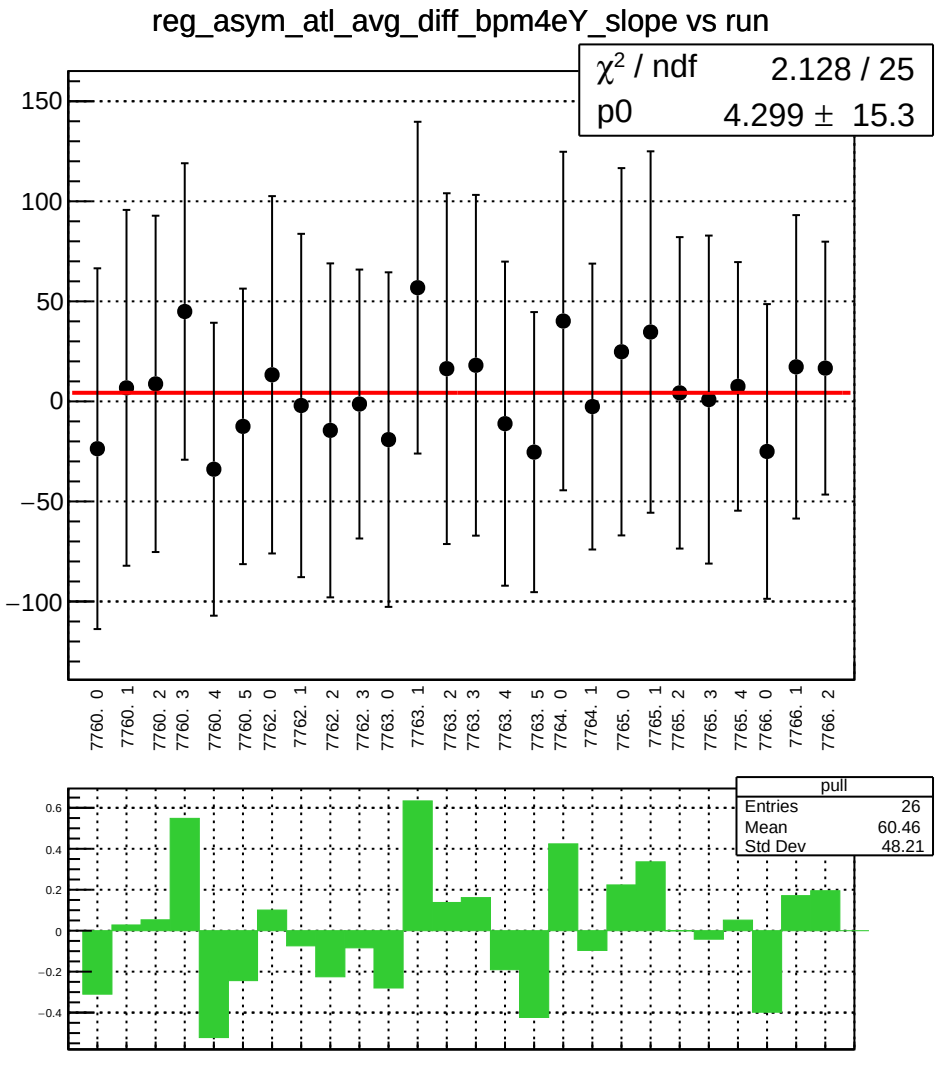

pull1D
Entries 26
Mean −0.01097
Std Dev 0.3399
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

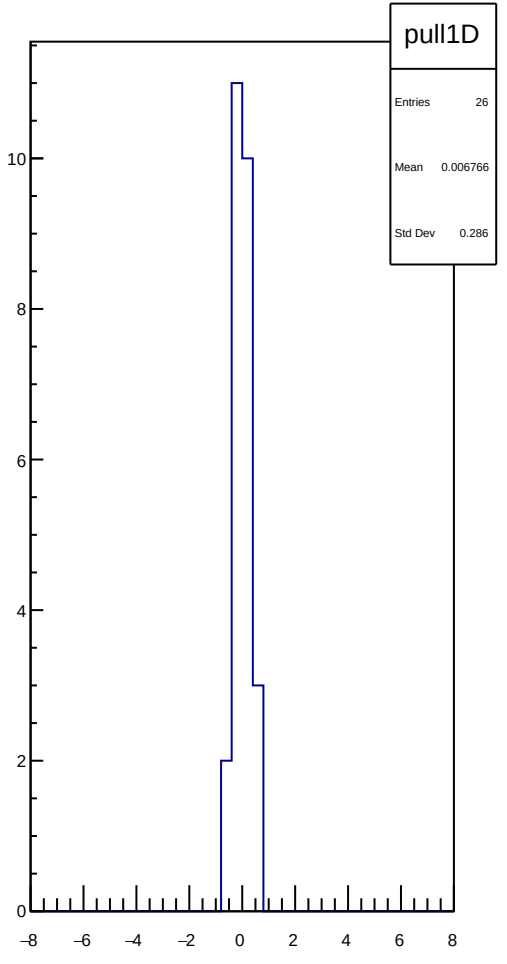

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.037 / 25
p0 48.98 ± 13.58
150
100
50
0
−50
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 64.61
Std Dev 51.32
0.4
0.2
0
−0.2
−0.4
−0.6

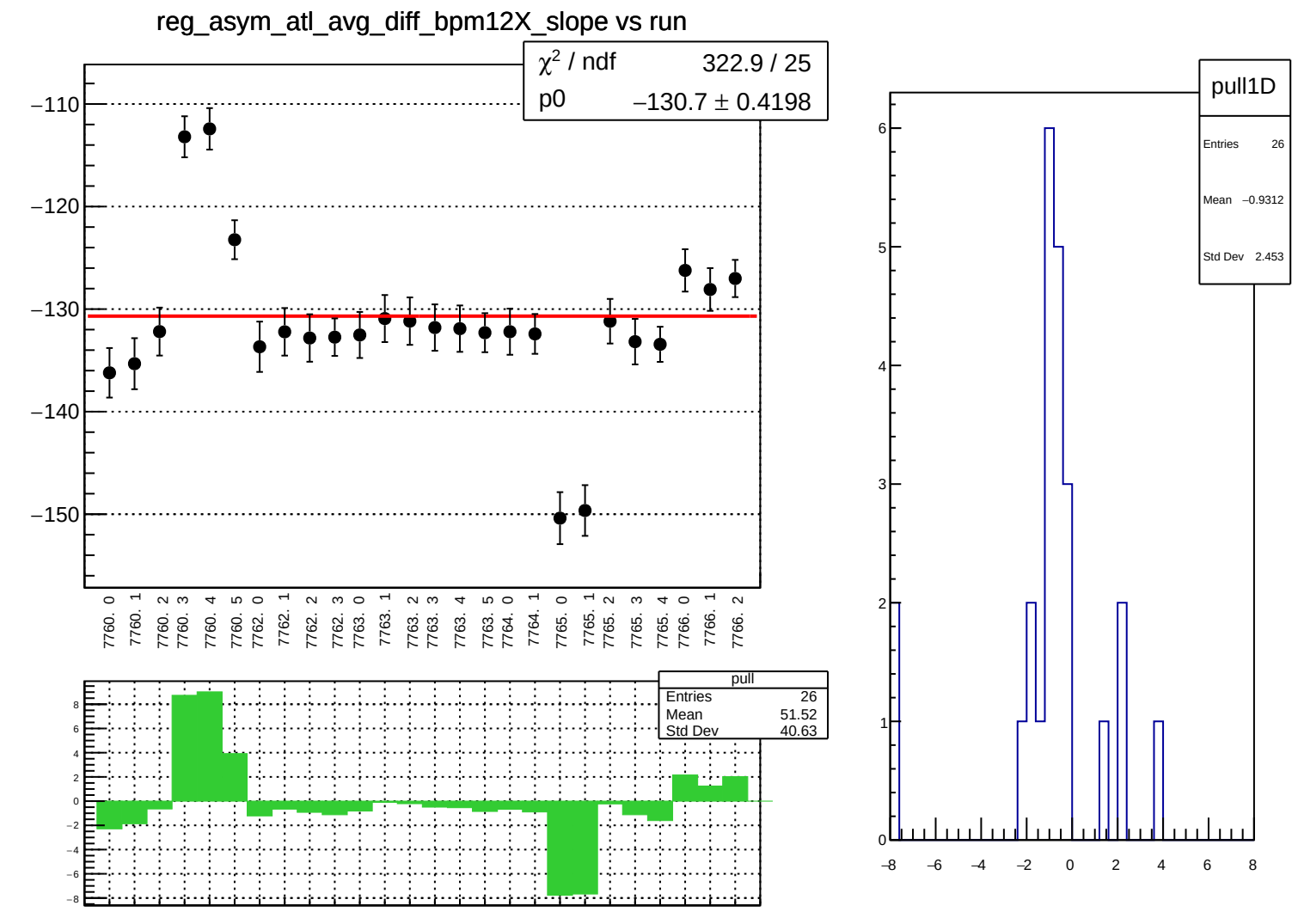

pull1D
Entries 26
Mean −0.004439
Std Dev 0.2798
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

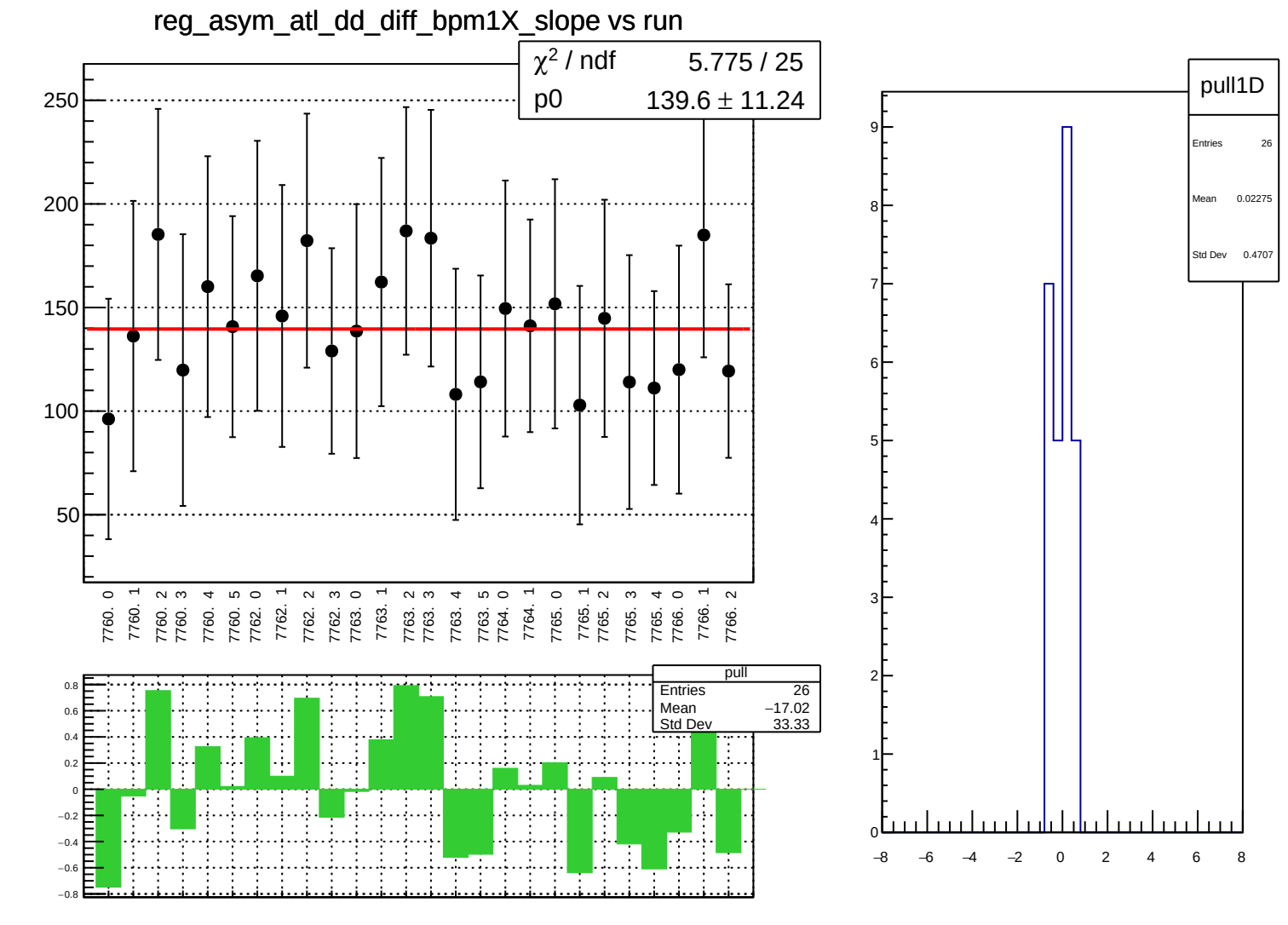

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.242 / 25
p0 109.6 ± 11.81
250
200
150
100
50
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 41.61
Std Dev 36.28
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

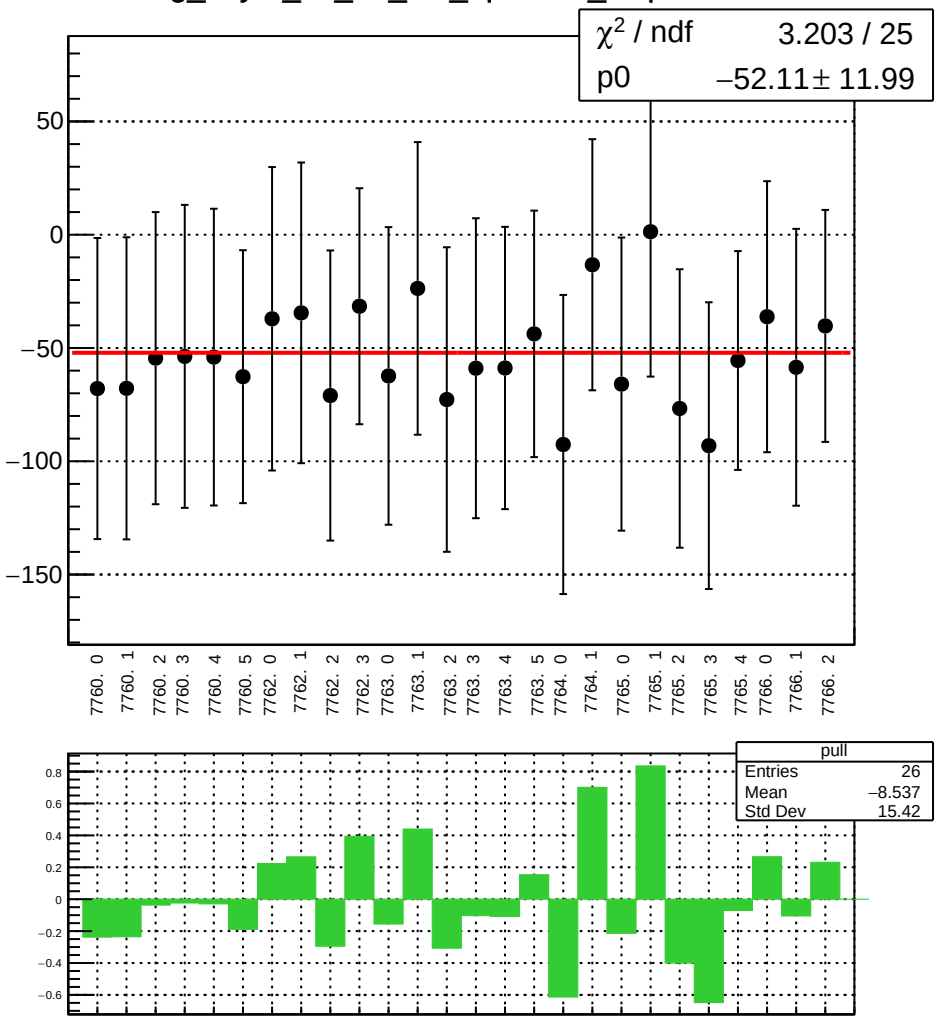

pull1D
Entries 26
Mean 0.01286
Std Dev 0.3529
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

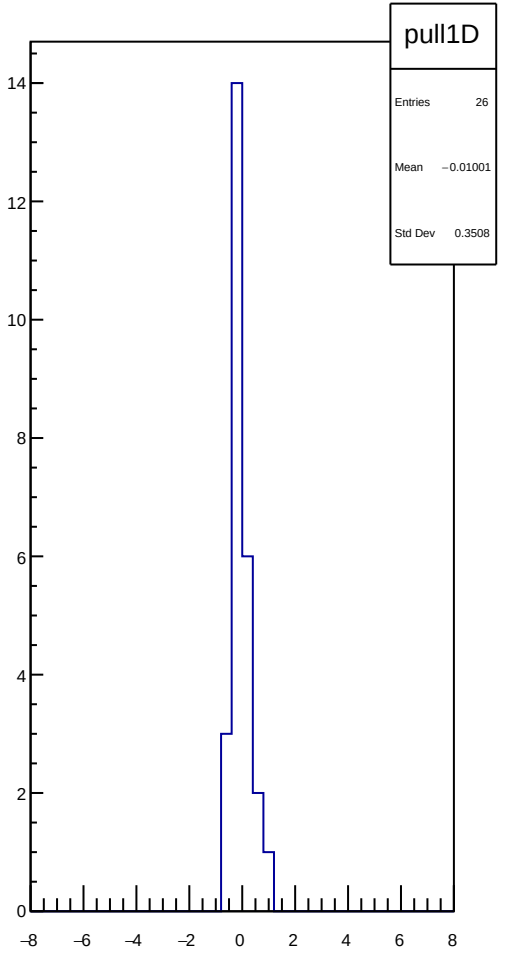

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.128 / 25
p0 4.299 ± 15.3
150
100
50
0
−50
−100
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 60.46
Std Dev 48.21
0.6
0.4
0.2
0
−0.2
−0.4

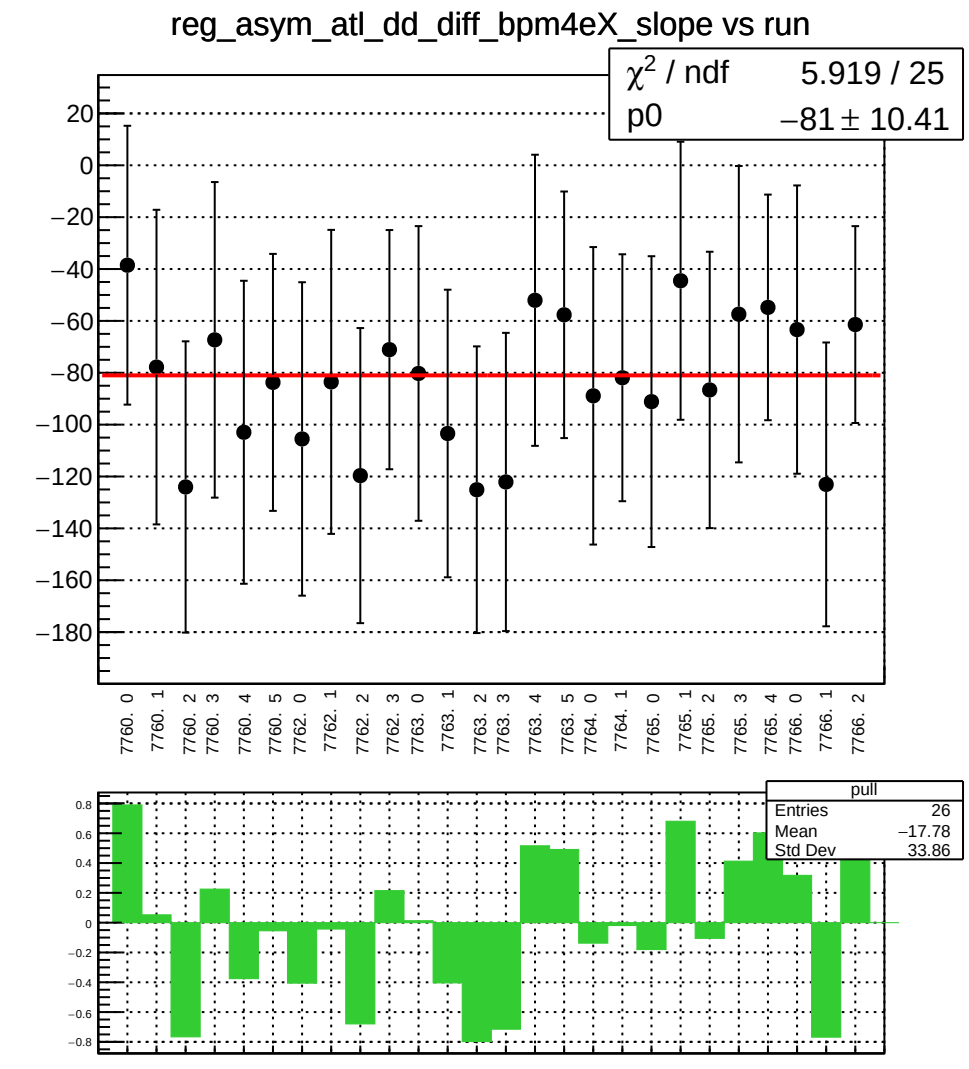

pull1D
Entries 26
Mean 0.006766
Std Dev 0.286
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

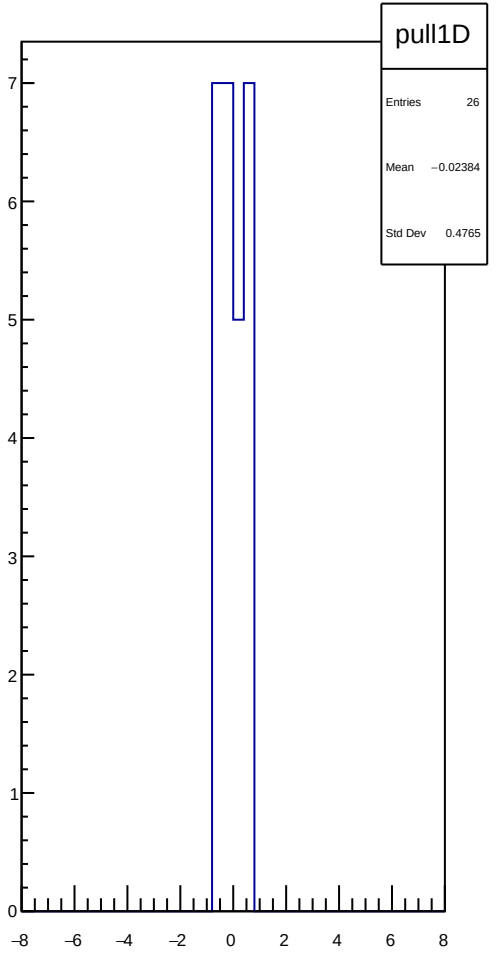

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 322.9 / 25
p0 −130.7 ± 0.4198
−110
−120
−130
−140
−150
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 51.52
Std Dev 40.63
pull1D
Entries 26
Mean −0.9312
Std Dev 2.453

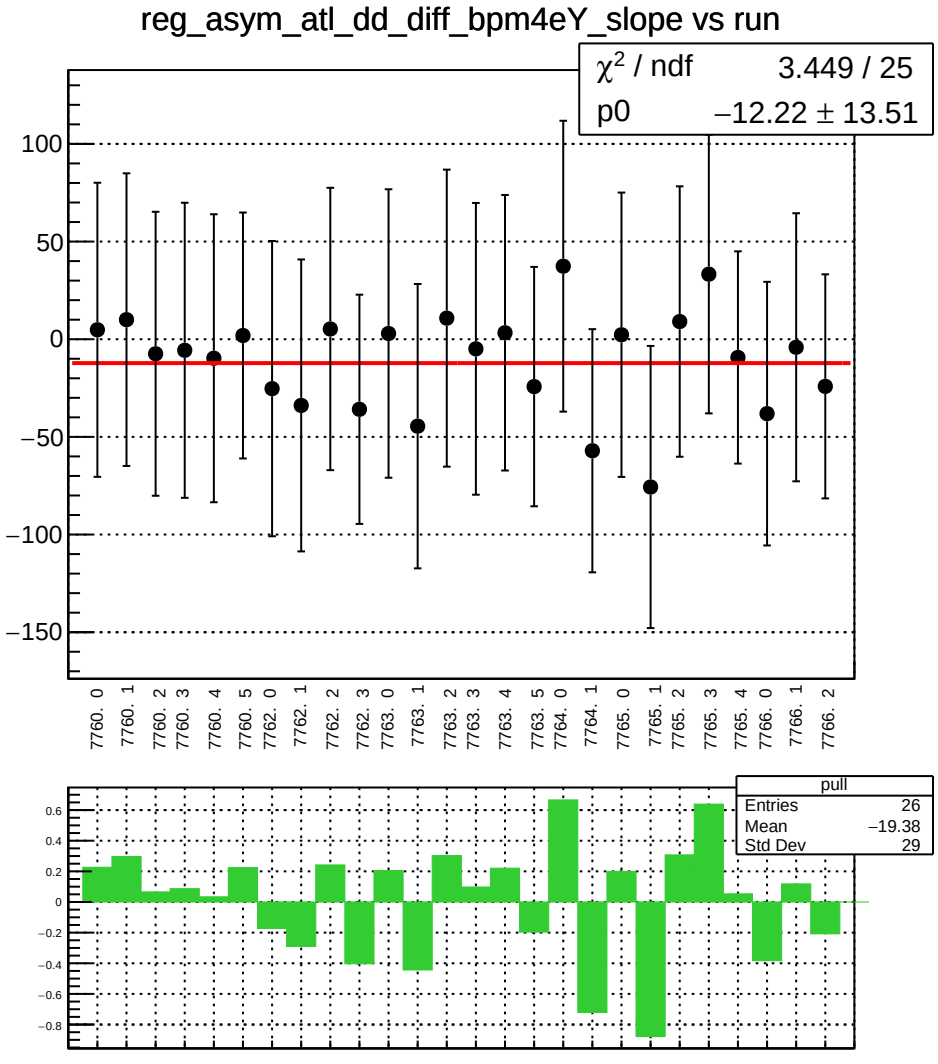

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 5.775 / 25
p0 139.6 ± 11.24
250
200
150
100
50
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −17.02
Std Dev 33.33
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 26
Mean 0.02275
Std Dev 0.4707
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

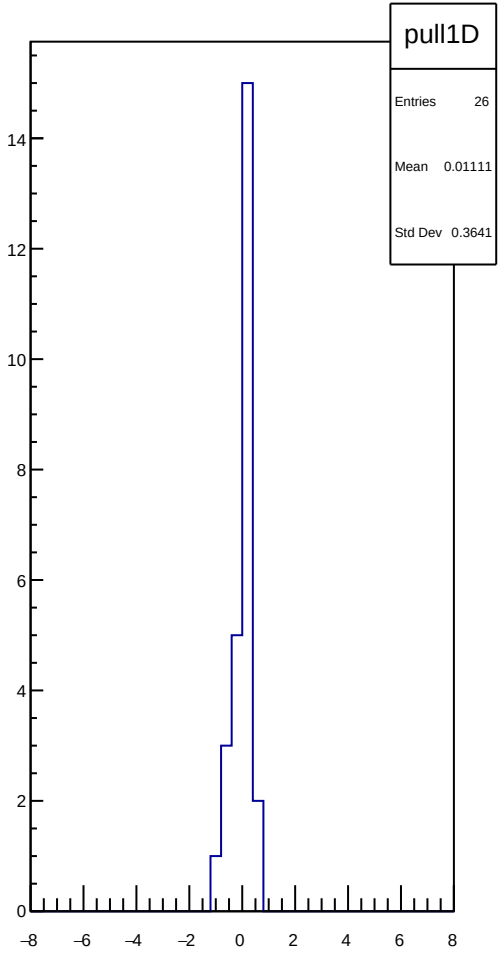

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.203 / 25
p0 −52.11± 11.99
50
0
−50
−100
−150
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −8.537
Std Dev 15.42
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

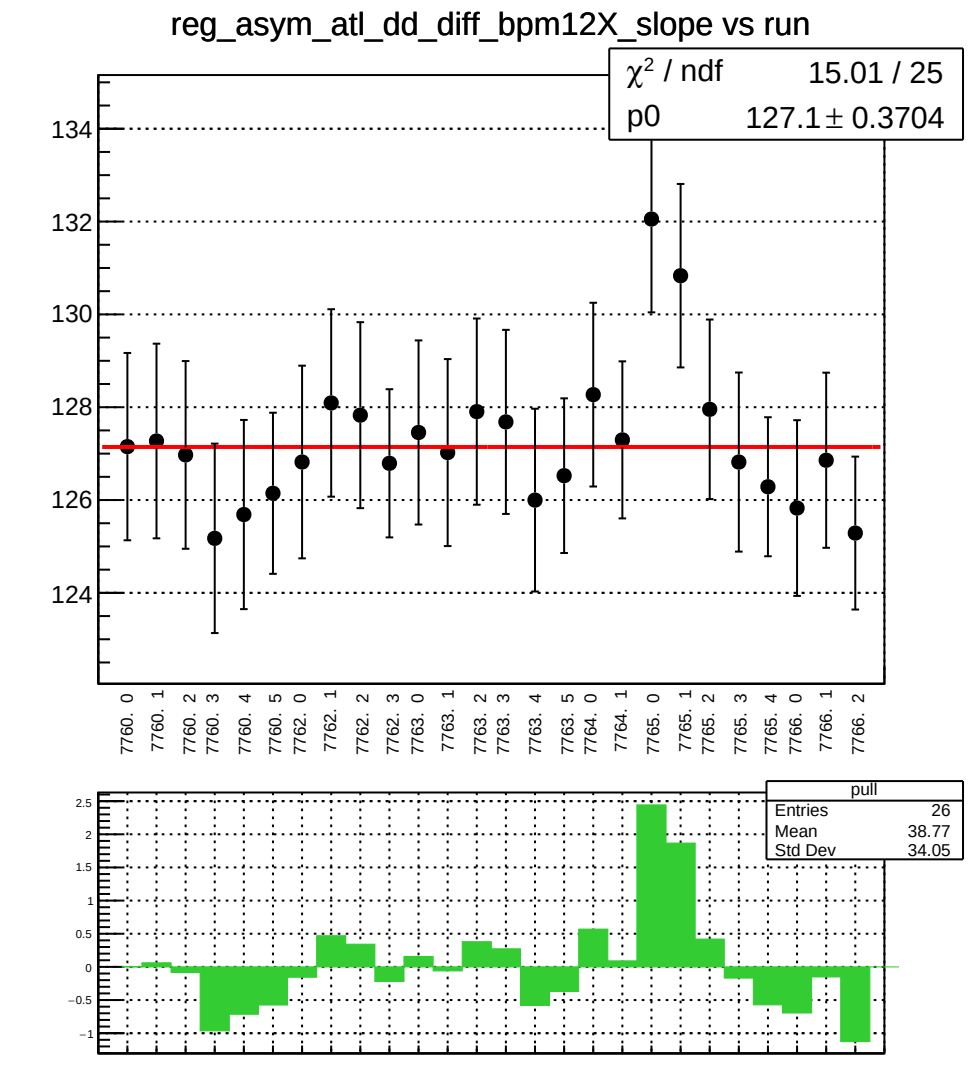

pull1D
Entries 26
Mean −0.01001
Std Dev 0.3508
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

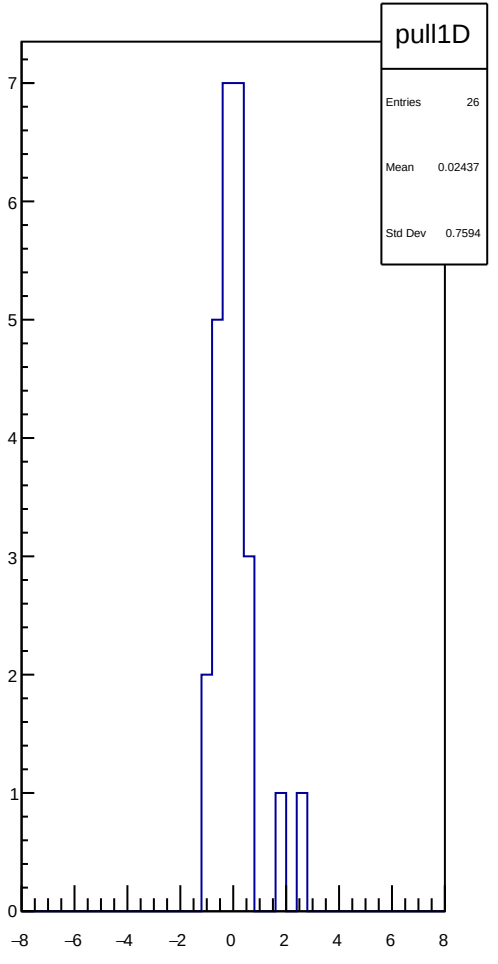

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.919 / 25
p0 −81 ± 10.41
20
0
−20
−40
−60
−80
−100
−120
−140
−160
−180
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −17.78
Std Dev 33.86
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

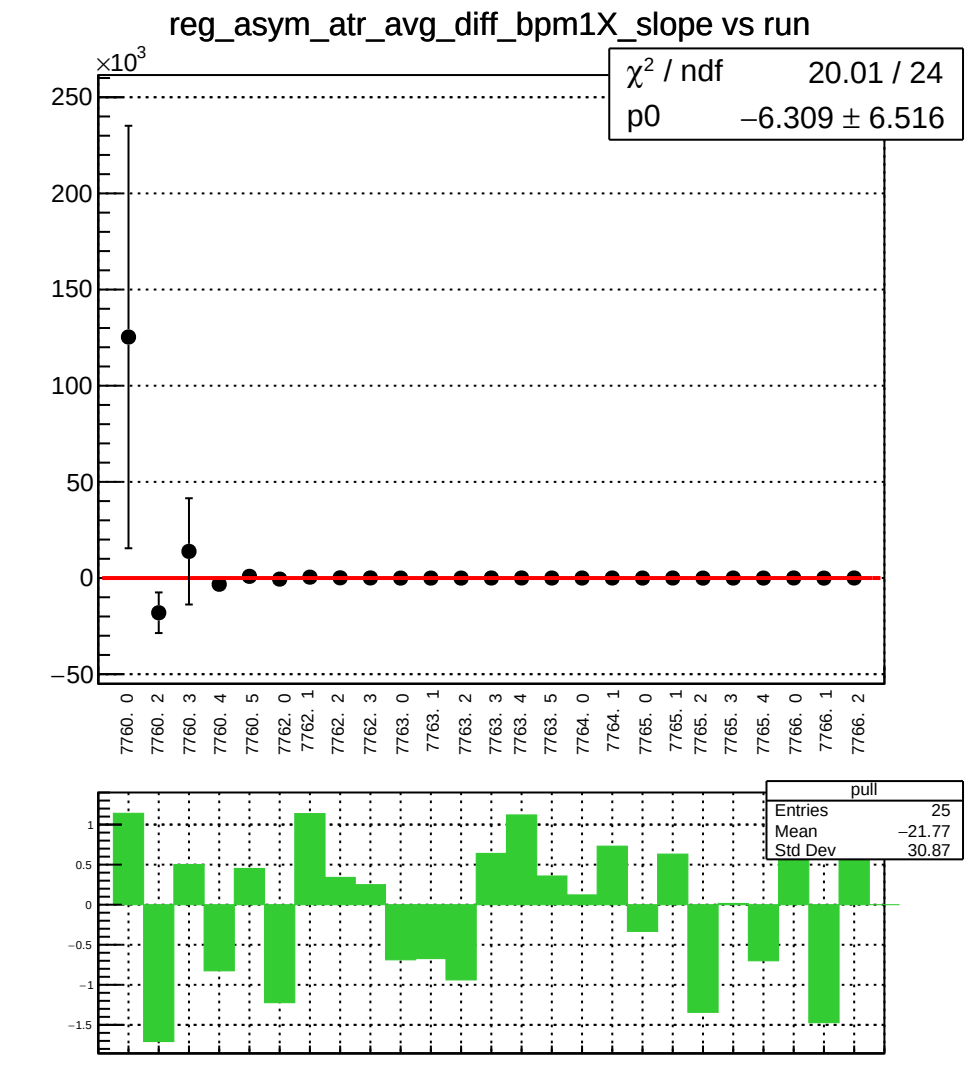

pull1D
Entries 26
Mean −0.02384
Std Dev 0.4765
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

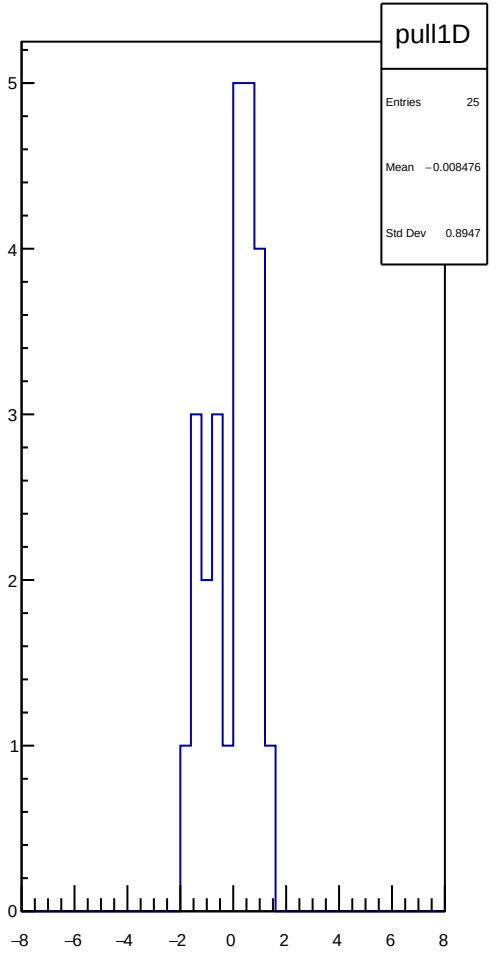

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.449 / 25
p0 −12.22 ± 13.51
100
50
0
−50
−100
−150
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −19.38
Std Dev 29
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

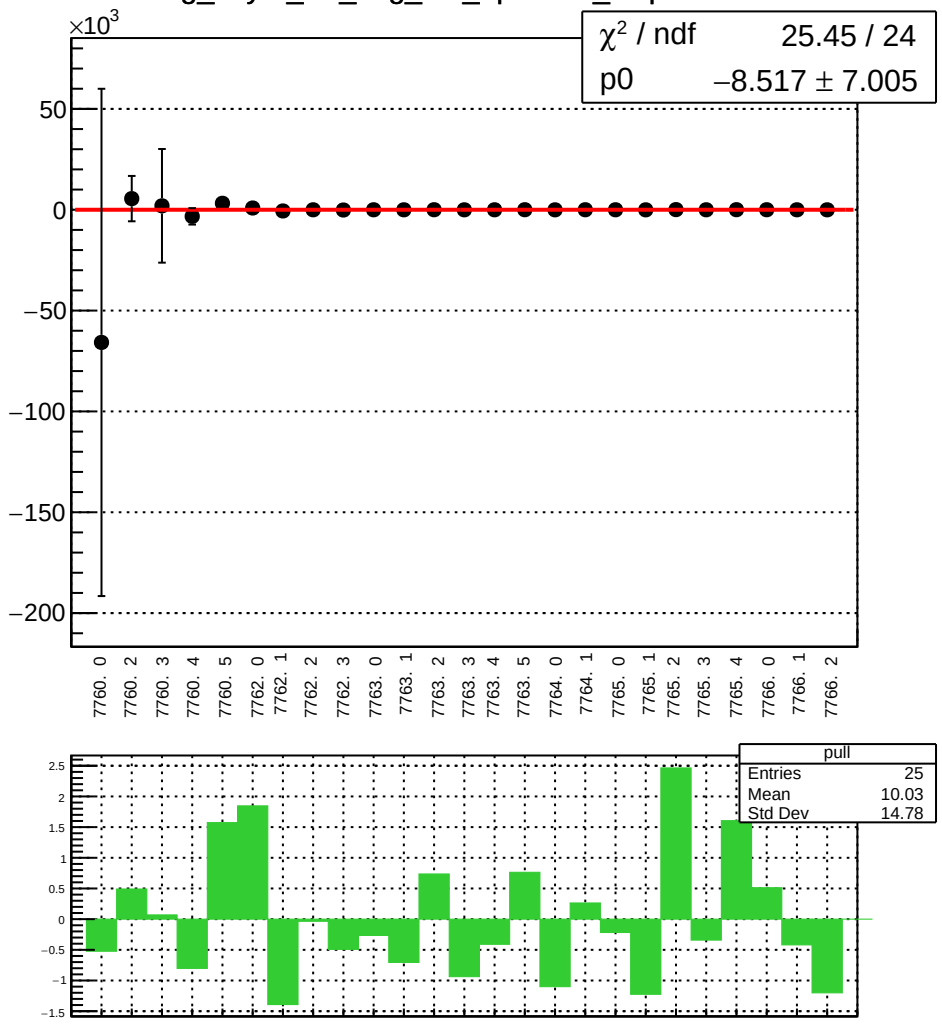

pull1D
Entries 26
Mean 0.01111
Std Dev 0.3641
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

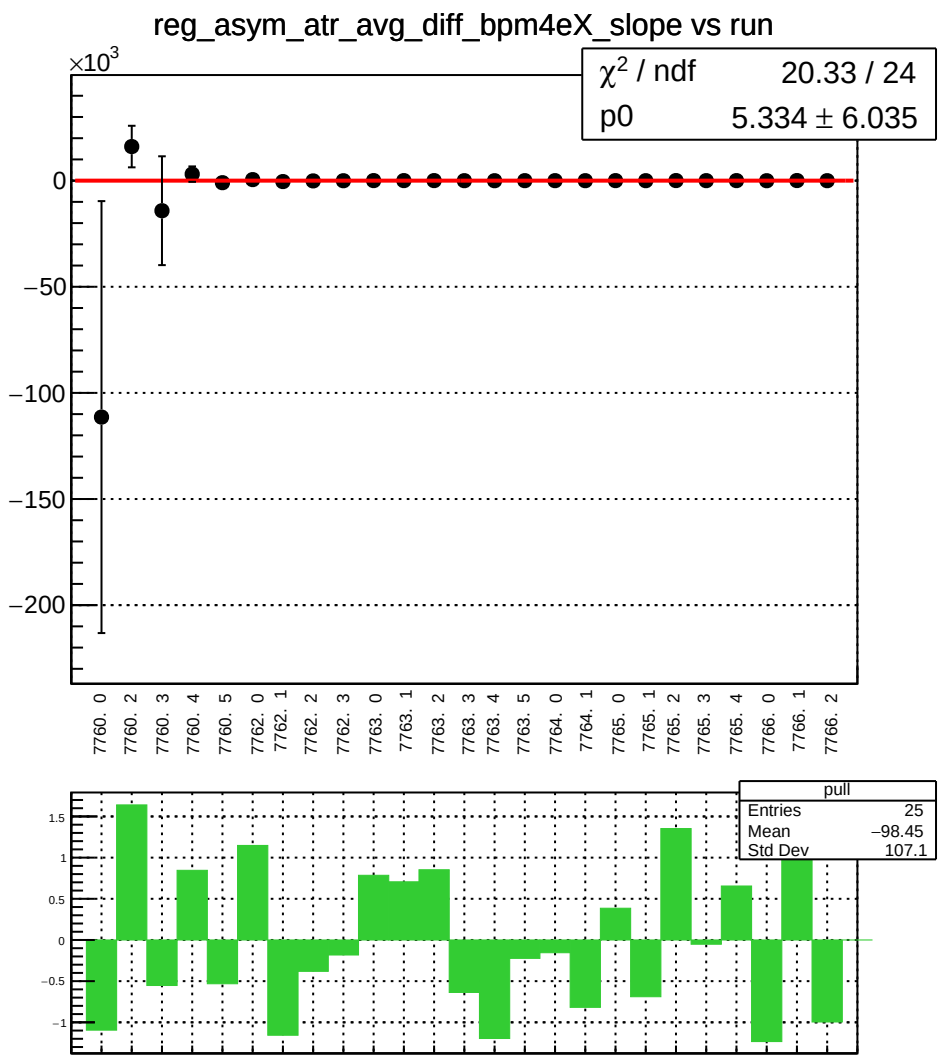

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 15.01 / 25
p0 127.1 ± 0.3704
134
132
130
128
126
124
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 38.77
Std Dev 34.05
2.5
2
1.5
1
0.5
0
−0.5
−1

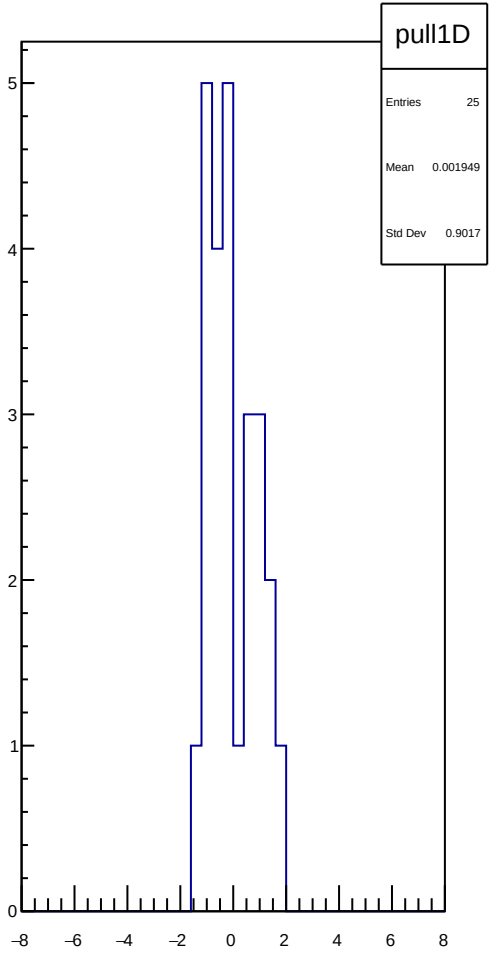

pull1D
Entries 26
Mean 0.02437
Std Dev 0.7594
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

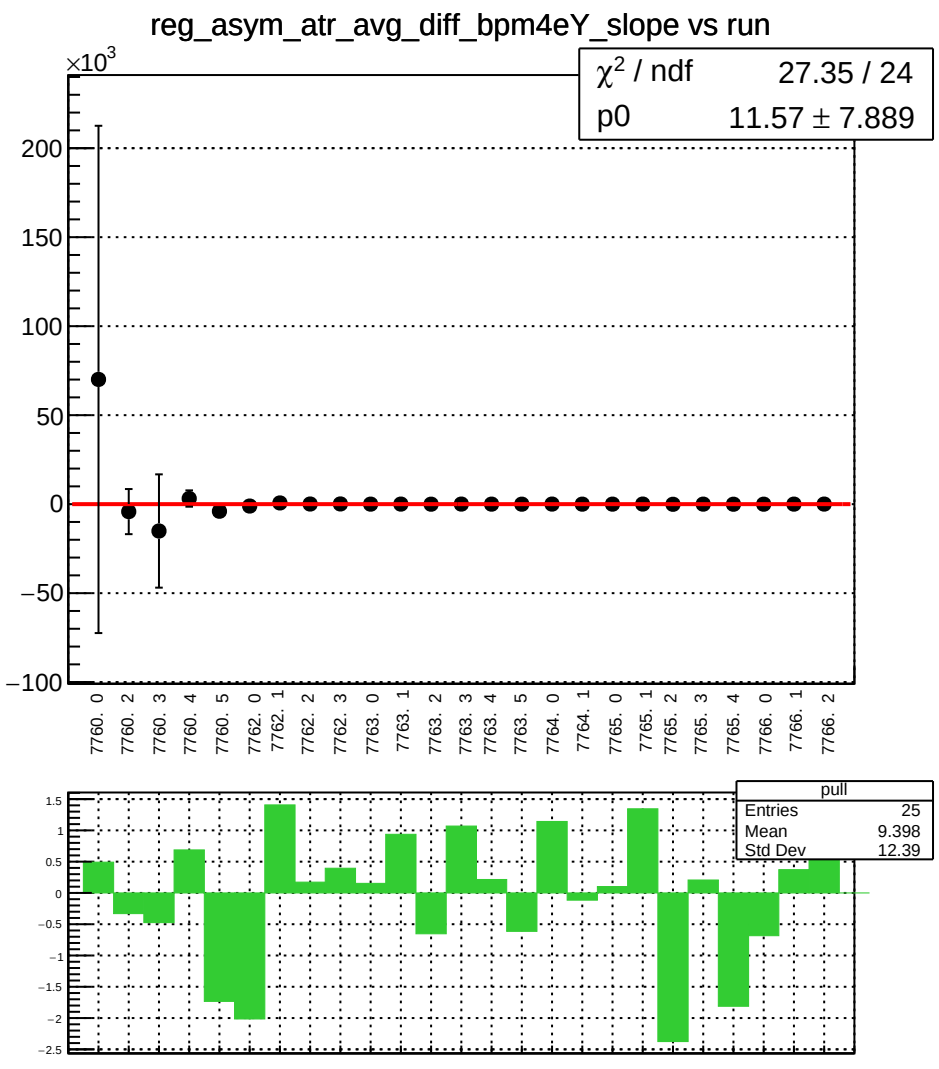

reg_asym_atr_avg_diff_bpm1X_slope vs run
×10^3
χ² / ndf 20.01 / 24
p0 −6.309 ± 6.516
250
200
150
100
50
0
−50
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −21.77
Std Dev 30.87
1
0.5
0
−0.5
−1
−1.5

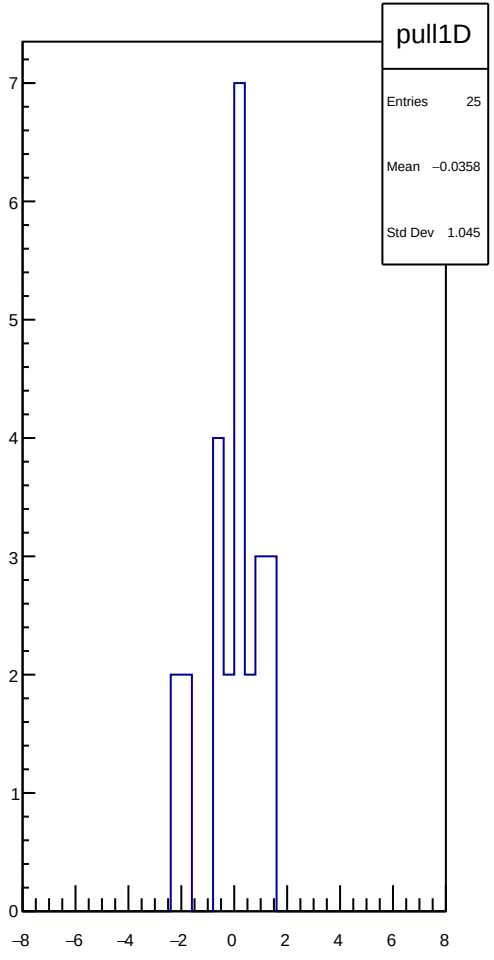

pull1D
Entries 25
Mean −0.008476
Std Dev 0.8947
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

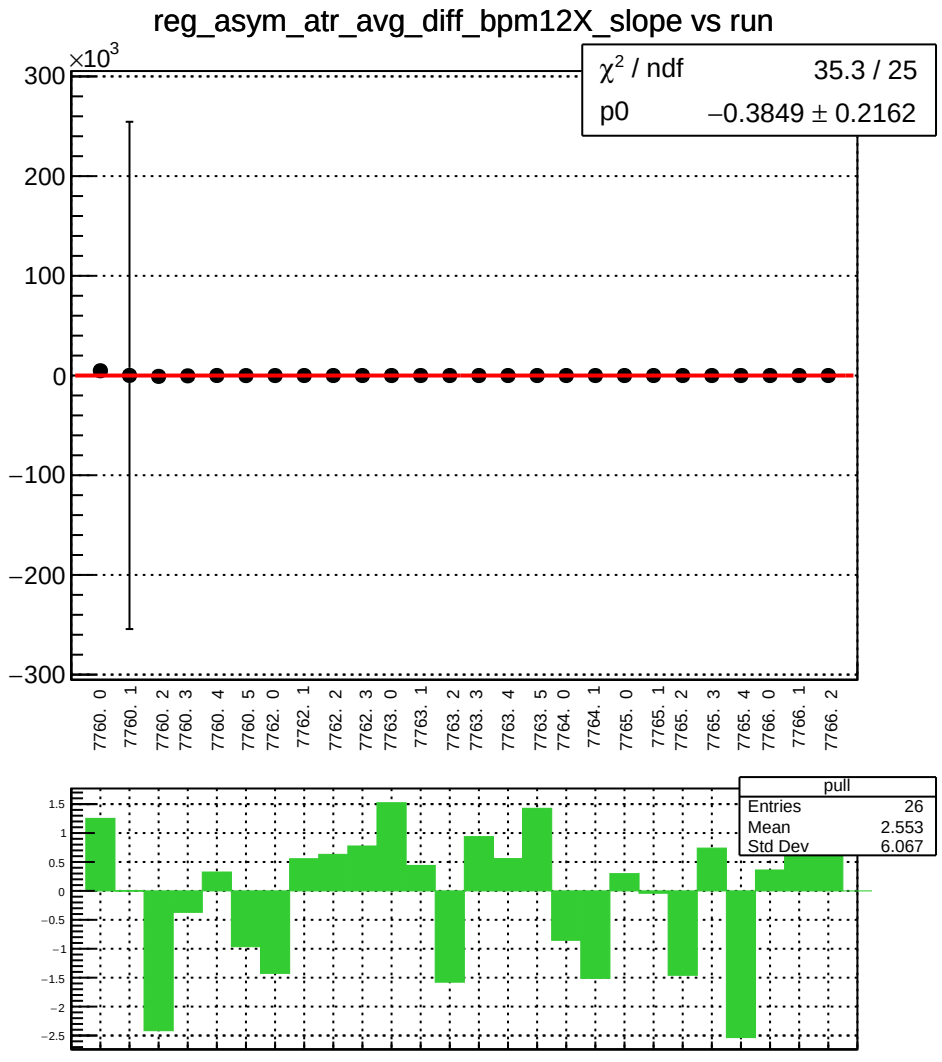

reg_asym_atr_avg_diff_bpm4aY_slope vs run
×10^3
χ² / ndf 25.45 / 24
p0 −8.517 ± 7.005
50
0
−50
−100
−150
−200
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 10.03
Std Dev 14.78
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 25
Mean 0.01029
Std Dev 1.009
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

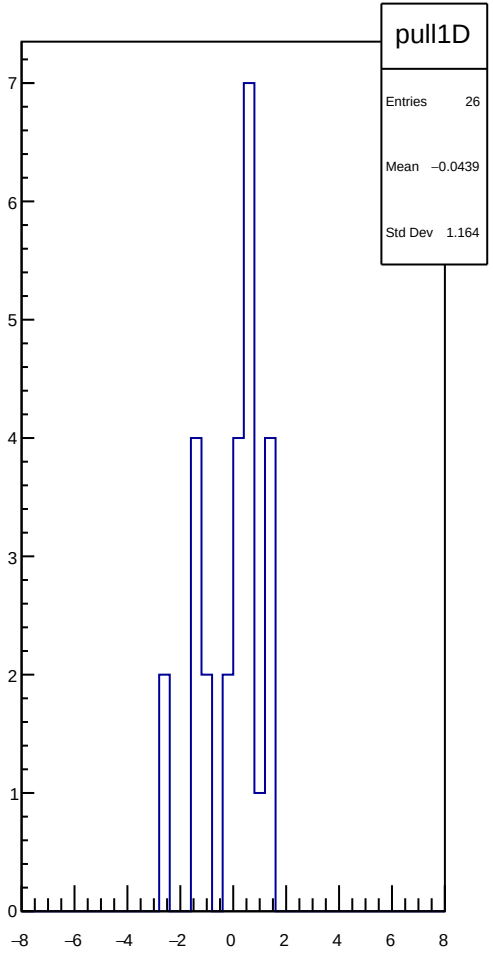

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 20.33 / 24
p0 5.334 ± 6.035
×10³
0
−50
−100
−150
−200
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −98.45
Std Dev 107.1
1.5
1
0.5
0
−0.5
−1

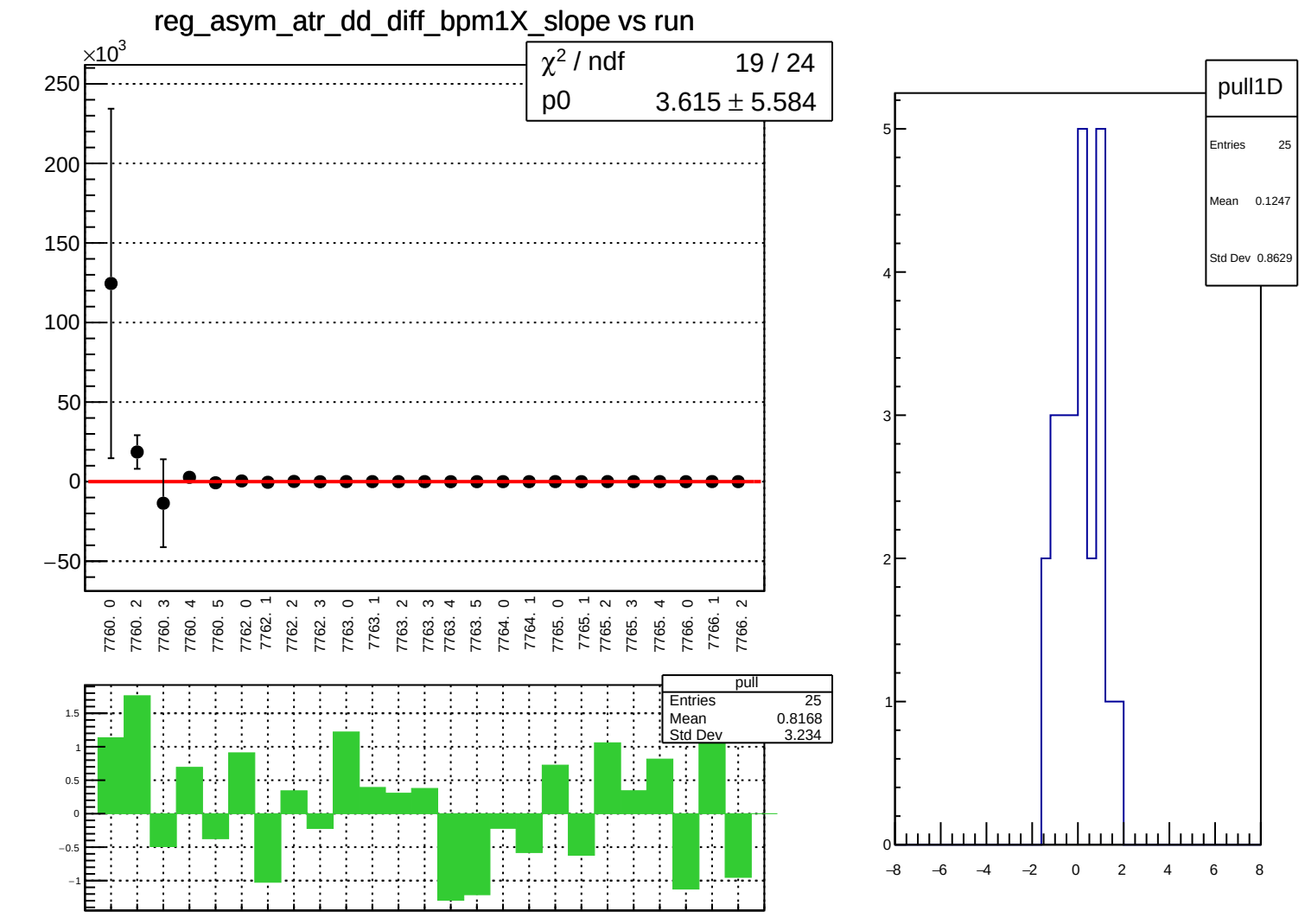

pull1D
Entries 25
Mean 0.001949
Std Dev 0.9017
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

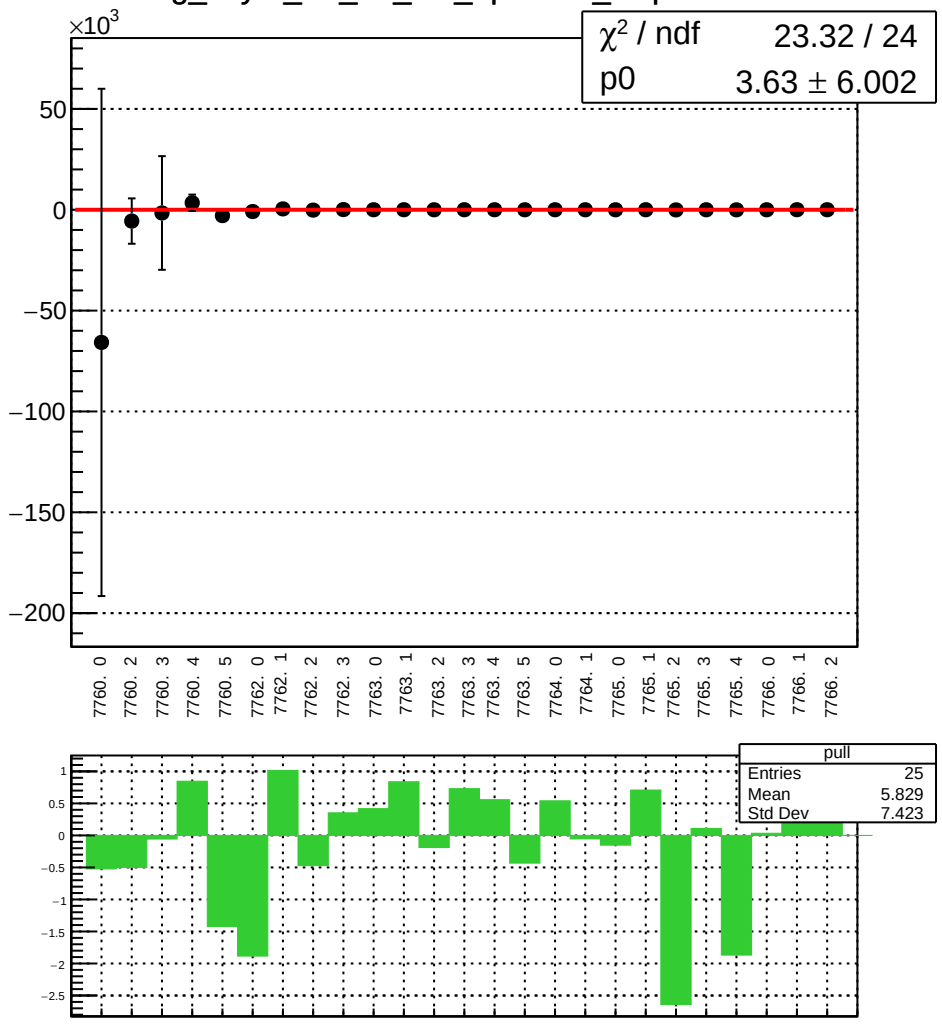

reg_asym_atr_avg_diff_bpm4eY_slope vs run
×10^3
χ^2 / ndf 27.35 / 24
p0 11.57 ± 7.889
200
150
100
50
0
−50
−100
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 9.398
Std Dev 12.39
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

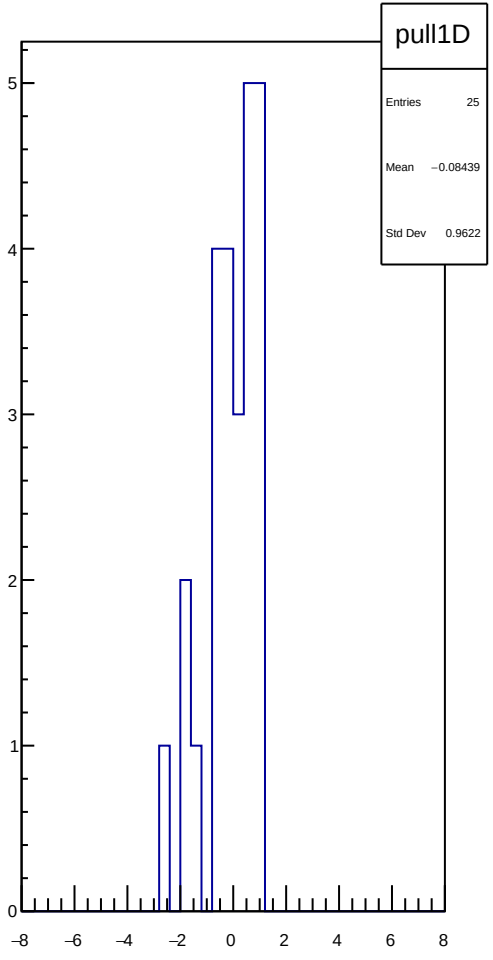

pull1D
Entries 25
Mean −0.0358
Std Dev 1.045
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

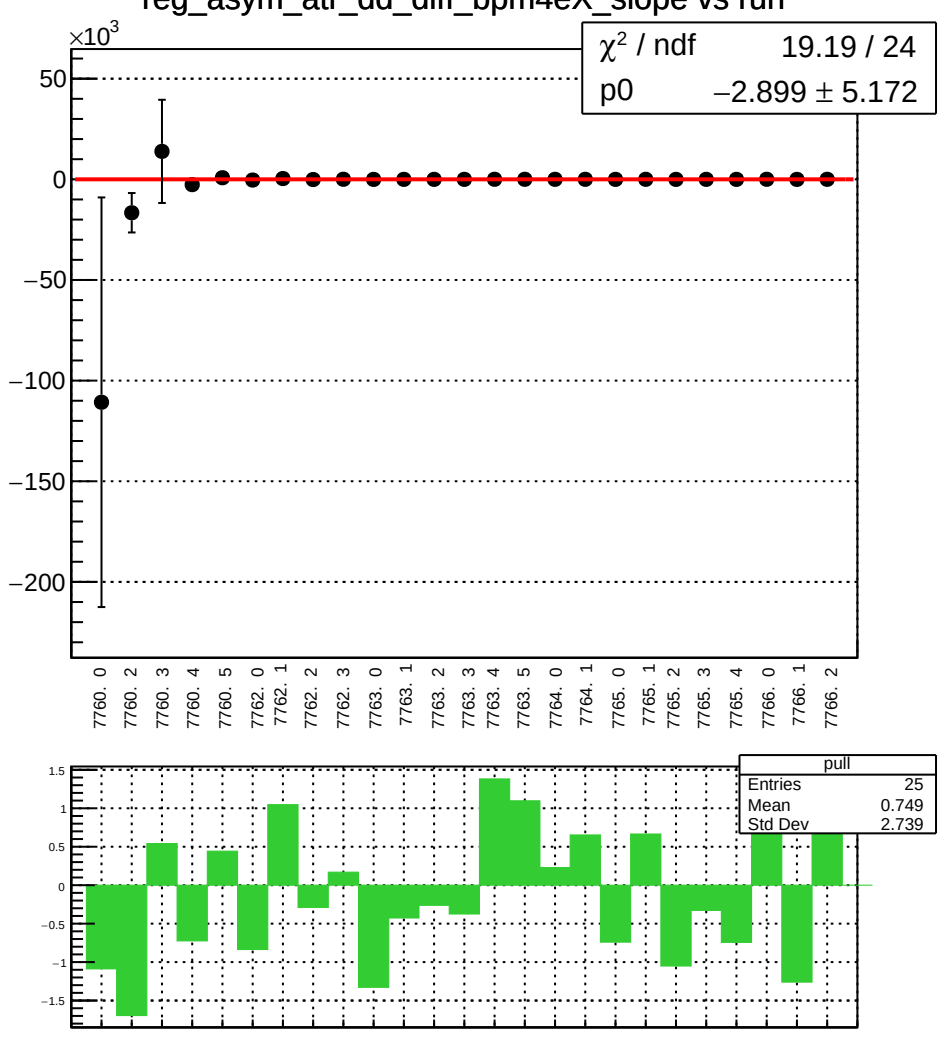

reg_asym_atr_avg_diff_bpm12X_slope vs run
×10^3
χ² / ndf 35.3 / 25
p0 −0.3849 ± 0.2162
300
200
100
0
−100
−200
−300
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 2.553
Std Dev 6.067
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

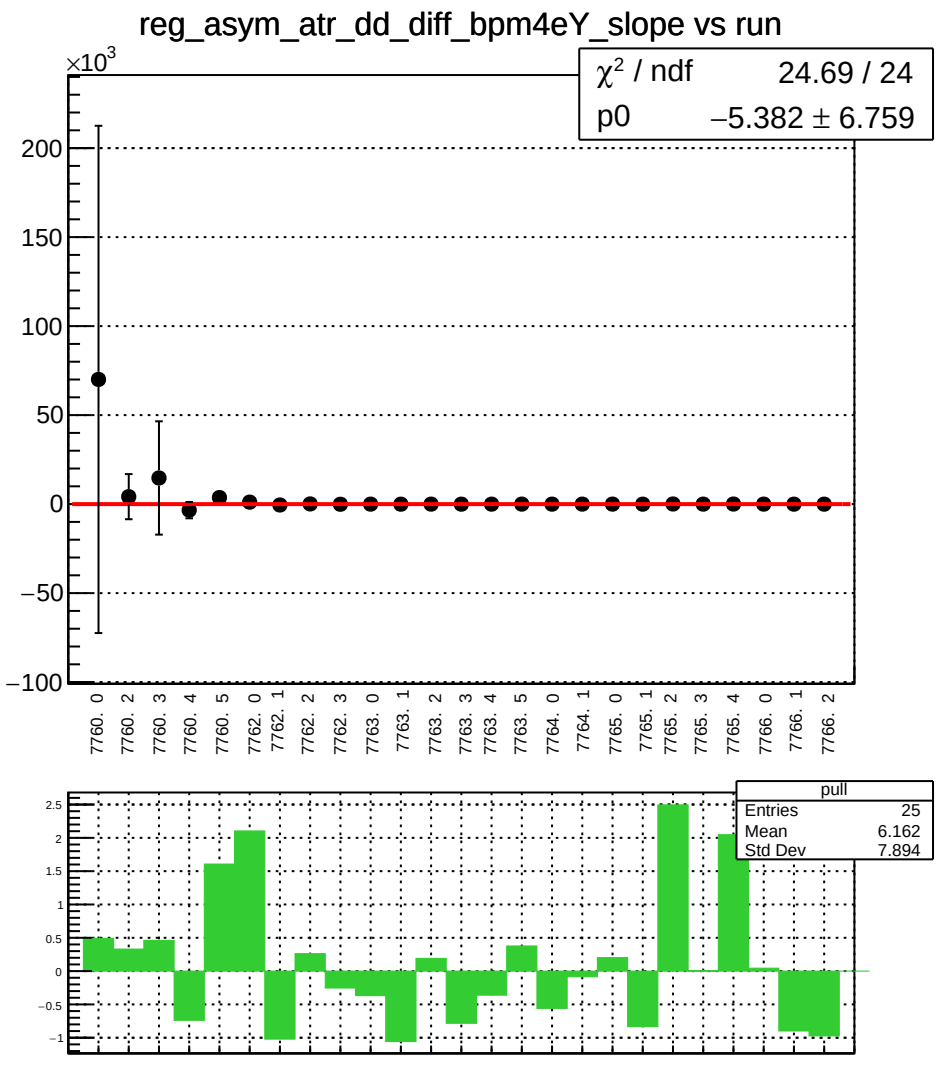

pull1D
Entries 26
Mean −0.0439
Std Dev 1.164
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

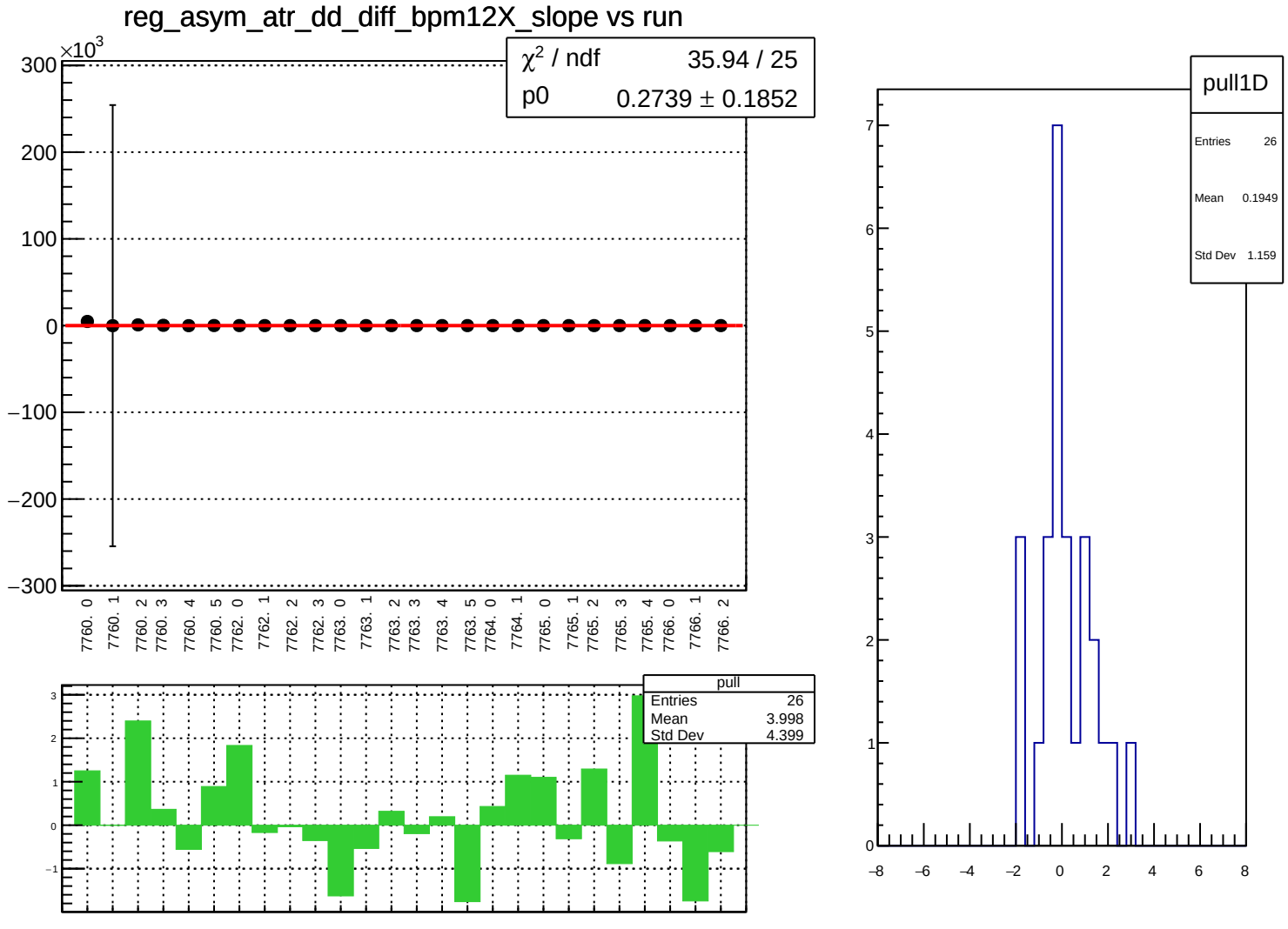

reg_asym_atr_dd_diff_bpm1X_slope vs run
×10^3
χ^2 / ndf 19 / 24
p0 3.615 ± 5.584
250
200
150
100
50
0
−50
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 0.8168
Std Dev 3.234
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 25
Mean 0.1247
Std Dev 0.8629
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

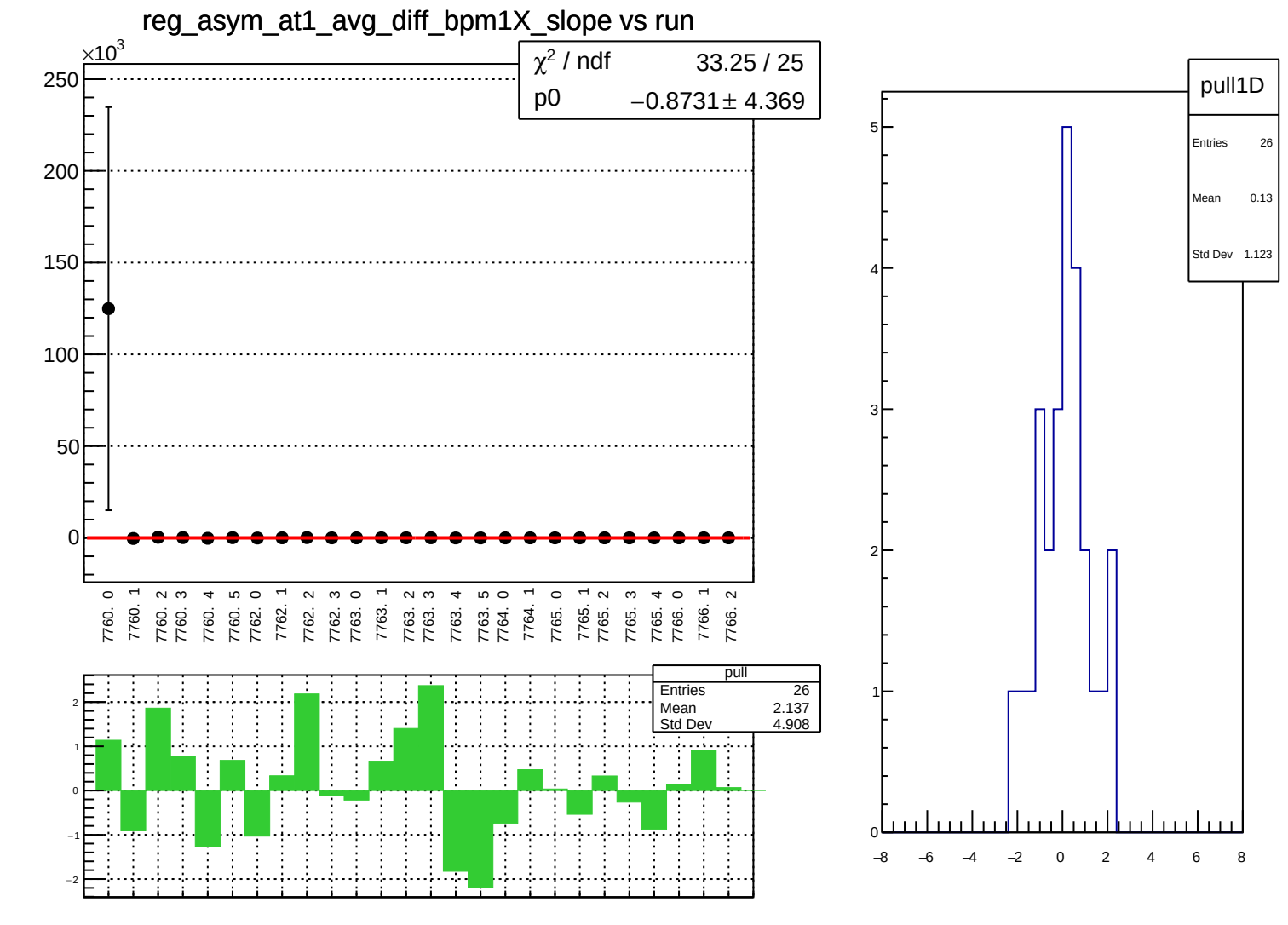

reg_asym_atr_dd_diff_bpm4aY_slope vs run
×10^3
χ² / ndf 23.32 / 24
p0 3.63 ± 6.002
50
0
−50
−100
−150
−200
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 5.829
Std Dev 7.423
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

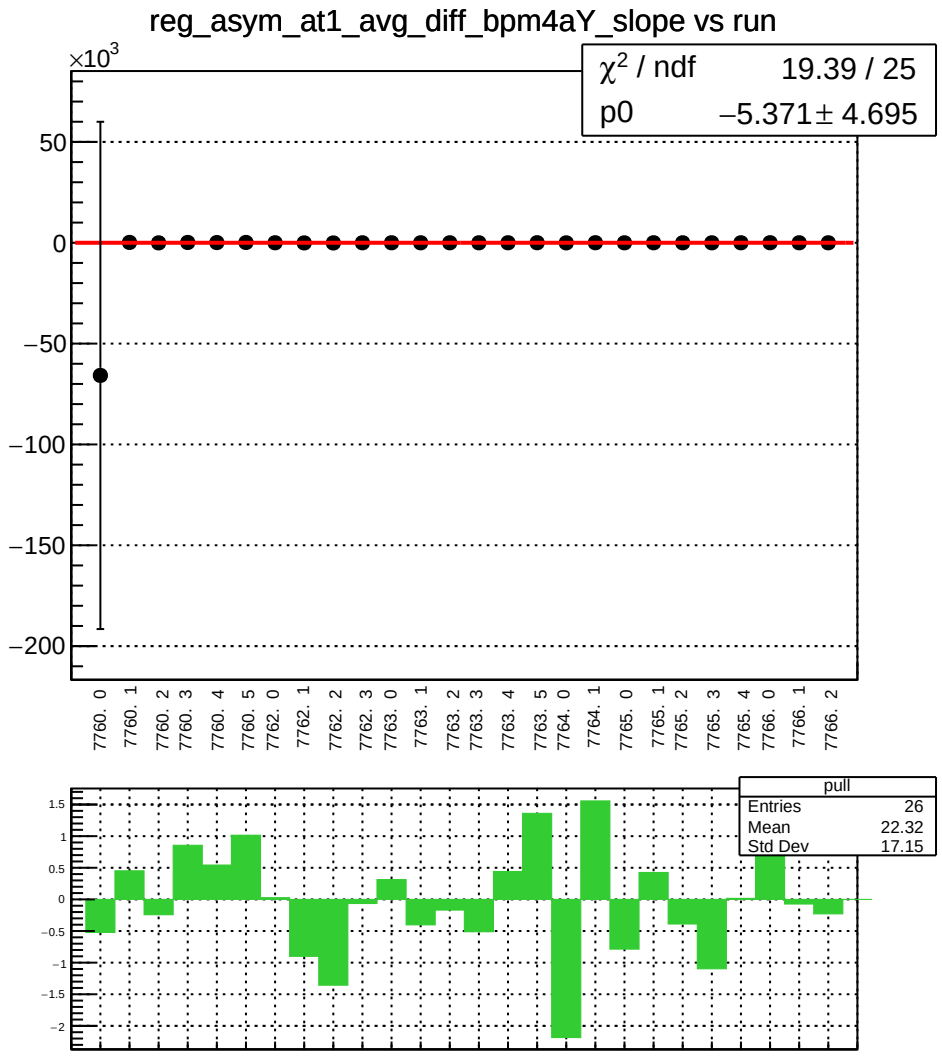

pull1D
Entries 25
Mean −0.08439
Std Dev 0.9622
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

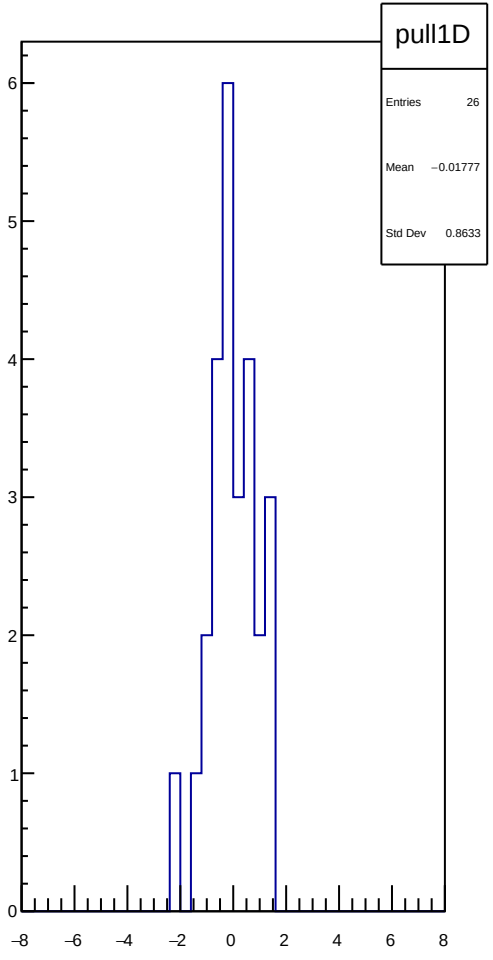

reg_asym_atr_dd_diff_bpm4eX_slope vs run
×10^3
χ² / ndf 19.19 / 24
p0 −2.899 ± 5.172
50
0
−50
−100
−150
−200
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 0.749
Std Dev 2.739
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 25
Mean −0.1148
Std Dev 0.8686
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

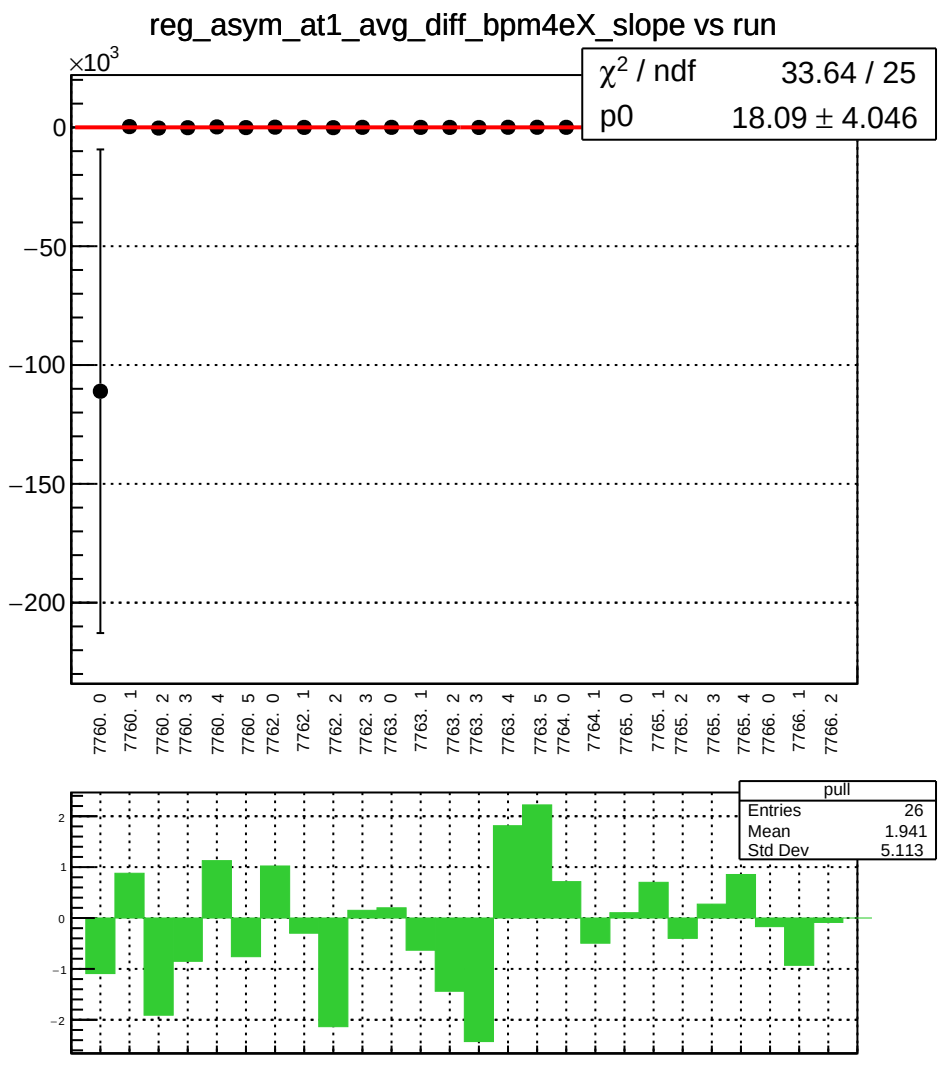

reg_asym_atr_dd_diff_bpm4eY_slope vs run
×10^3
χ² / ndf 24.69 / 24
p0 −5.382 ± 6.759
200
150
100
50
0
−50
−100
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 6.162
Std Dev 7.894
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 25
Mean 0.1074
Std Dev 0.988
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

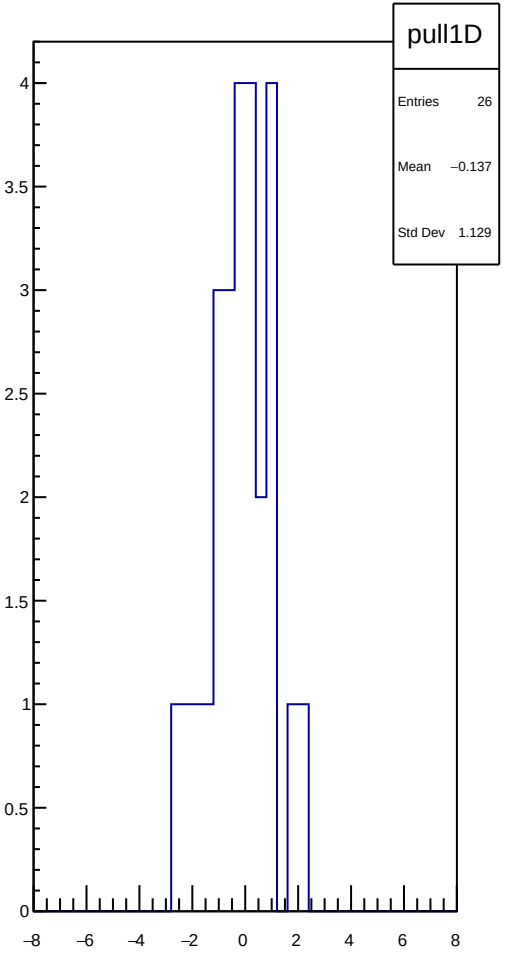

reg_asym_atr_dd_diff_bpm12X_slope vs run
×10^3
χ² / ndf 35.94 / 25
p0 0.2739 ± 0.1852
300
200
100
0
−100
−200
−300
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 3.998
Std Dev 4.399
pull1D
Entries 26
Mean 0.1949
Std Dev 1.159

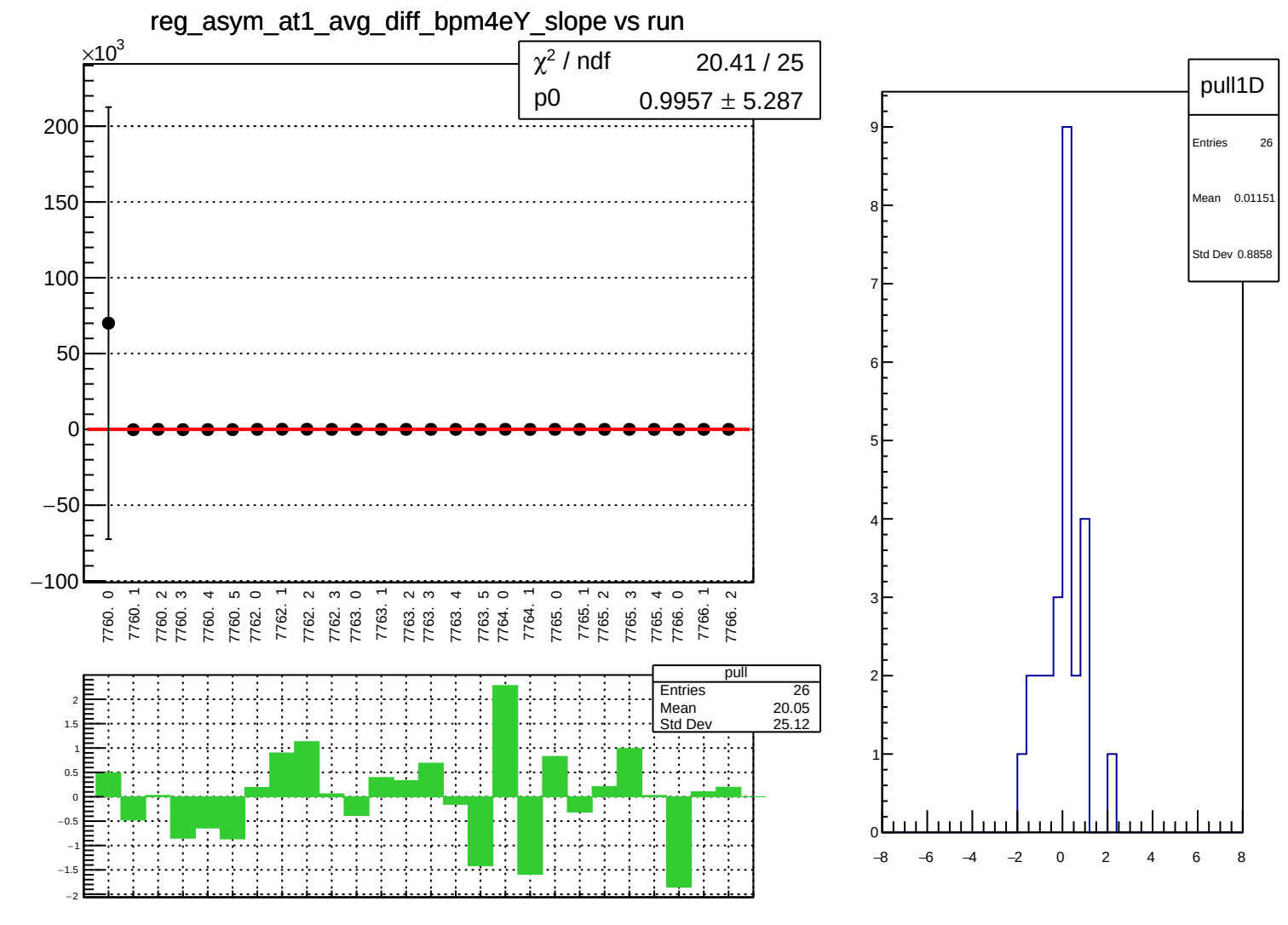

reg_asym_at1_avg_diff_bpm1X_slope vs run
×10^3
χ² / ndf 33.25 / 25
p0 −0.8731 ± 4.369
250
200
150
100
50
0
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 2.137
Std Dev 4.908
2
1
0
−1
−2
pull1D
Entries 26
Mean 0.13
Std Dev 1.123
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

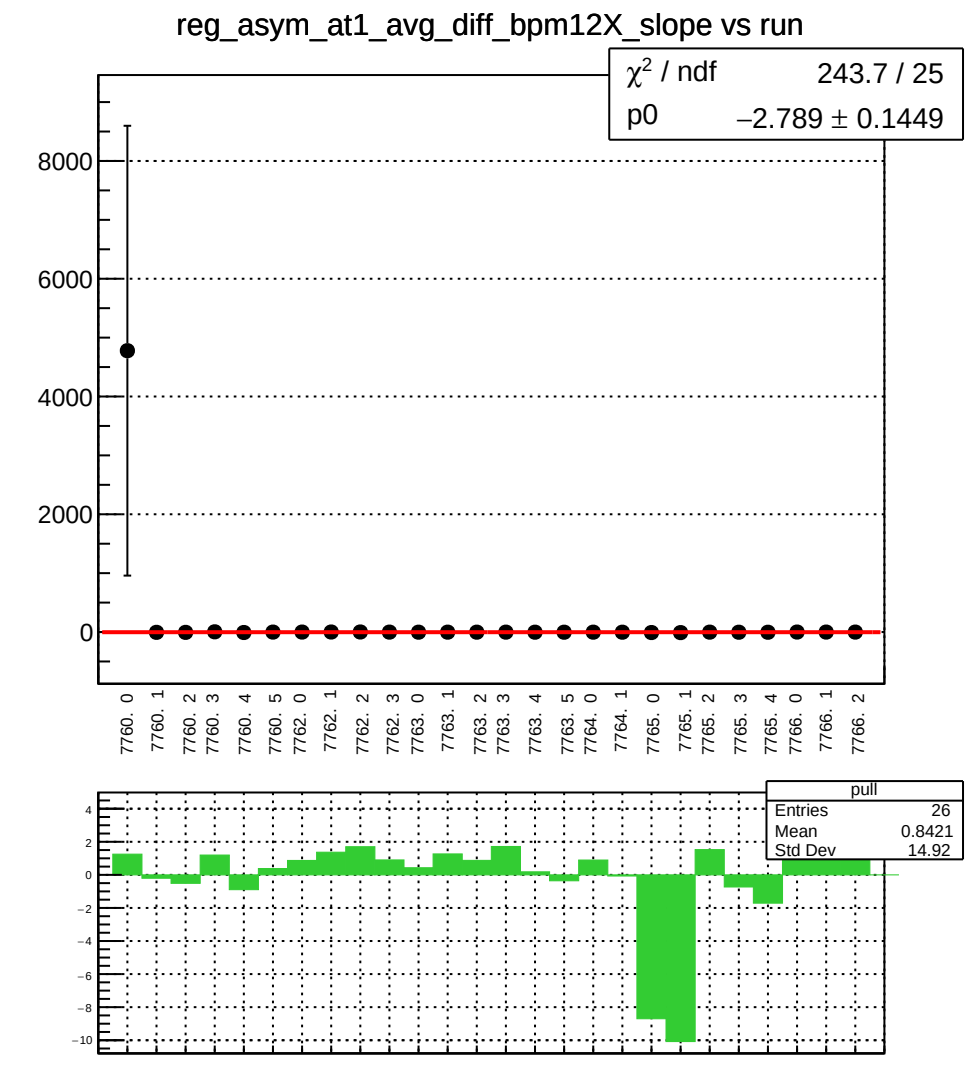

reg_asym_at1_avg_diff_bpm4aY_slope vs run
×10^3
χ^2 / ndf 19.39 / 25
p0 −5.371 ± 4.695
50
0
−50
−100
−150
−200
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 22.32
Std Dev 17.15
1.5
1
0.5
0
−0.5
−1
−1.5
−2

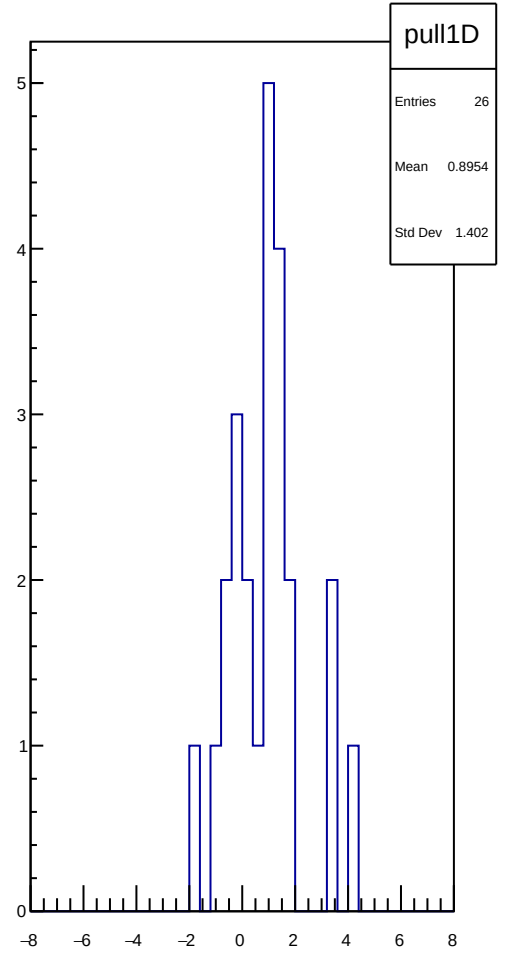

pull1D
Entries 26
Mean −0.01777
Std Dev 0.8633
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

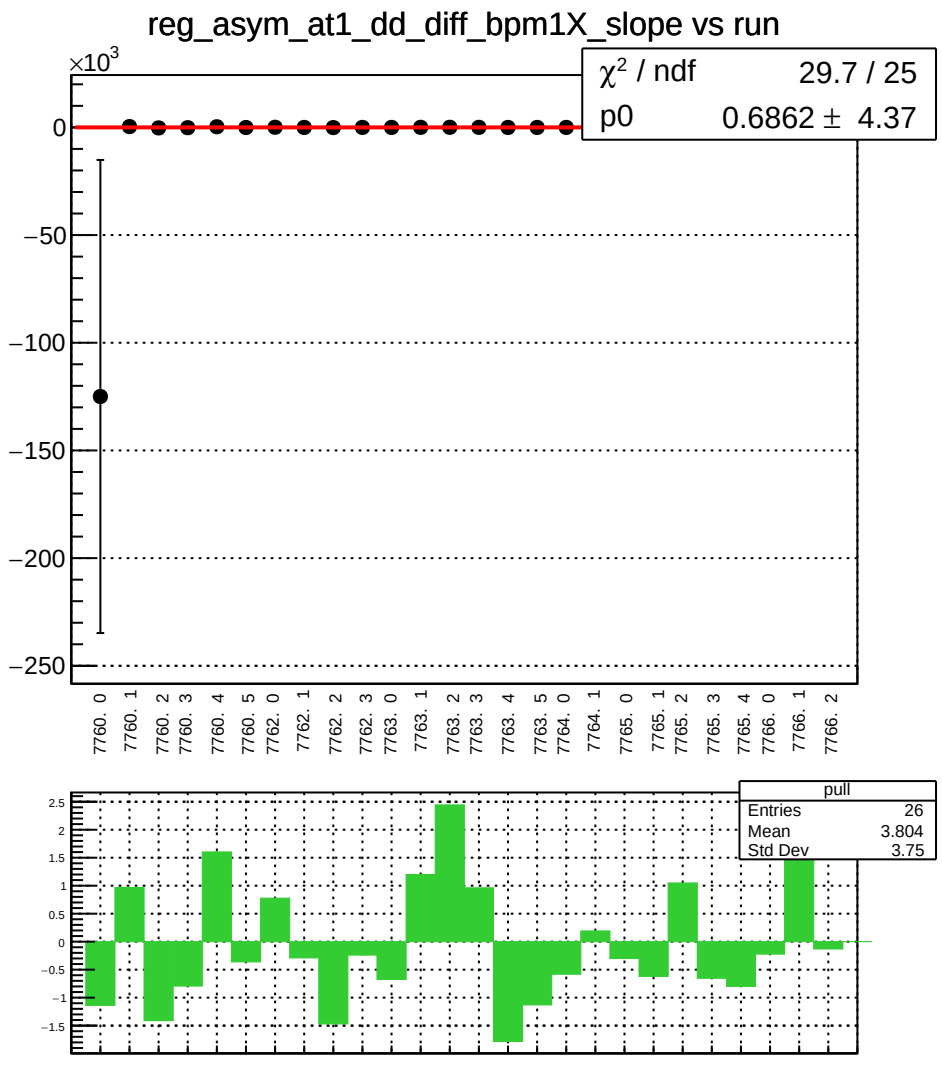

reg_asym_at1_avg_diff_bpm4eX_slope vs run
×10^3
χ^2 / ndf 33.64 / 25
p0 18.09 ± 4.046
0
−50
−100
−150
−200
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 1.941
Std Dev 5.113
2
1
0
−1
−2

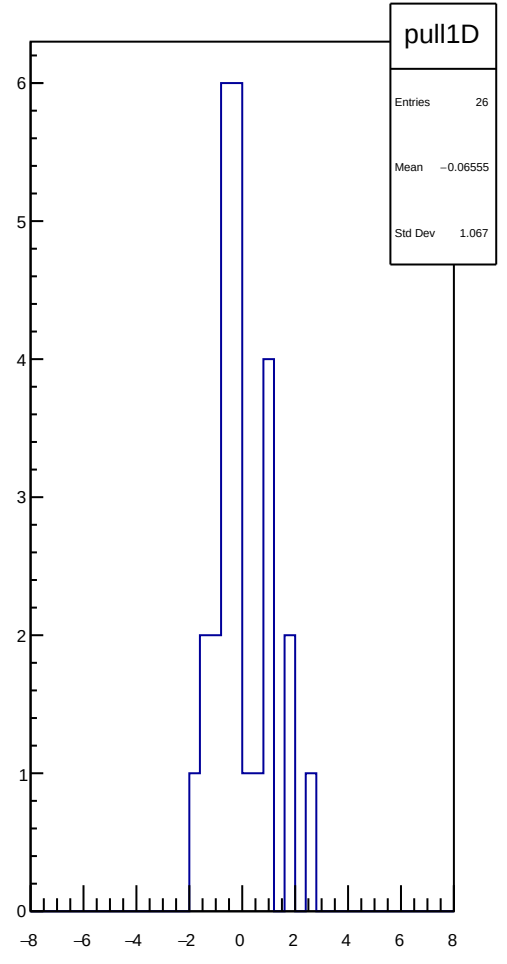

pull1D
Entries 26
Mean −0.137
Std Dev 1.129
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

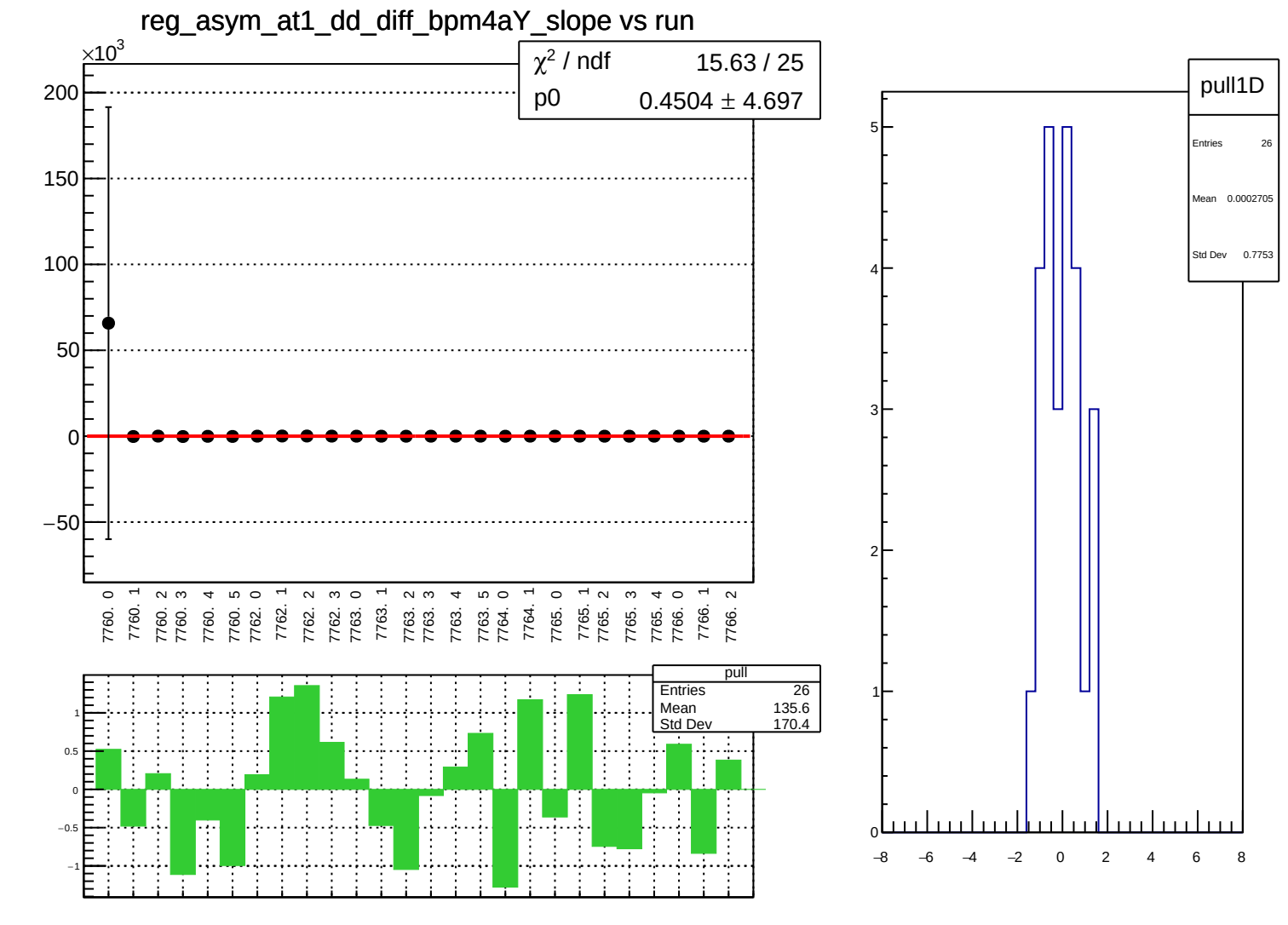

reg_asym_at1_avg_diff_bpm4eY_slope vs run
×10^3
χ² / ndf 20.41 / 25
p0 0.9957 ± 5.287
200
150
100
50
0
−50
−100
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 20.05
Std Dev 25.12
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 26
Mean 0.01151
Std Dev 0.8858
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

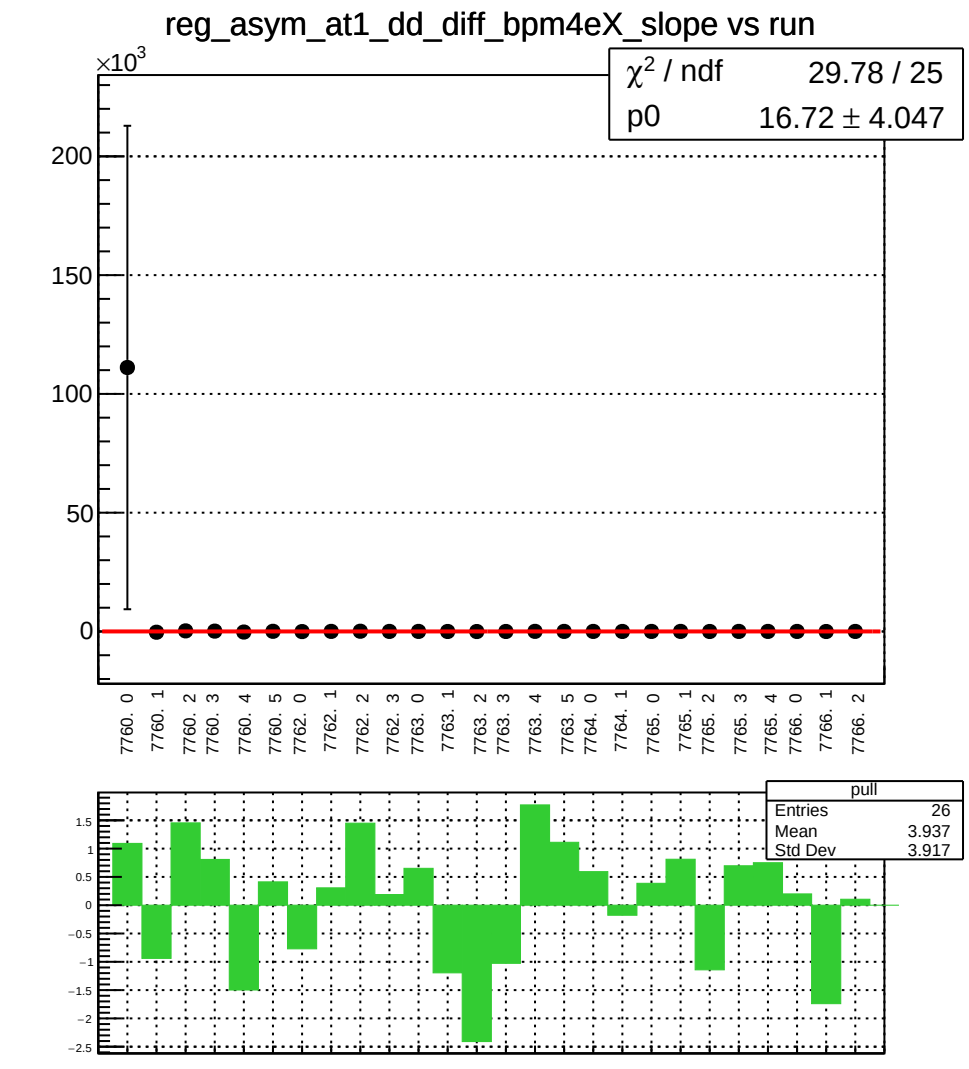

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 243.7 / 25
p0 −2.789 ± 0.1449
8000
6000
4000
2000
0
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 0.8421
Std Dev 14.92
4
2
0
−2
−4
−6
−8
−10

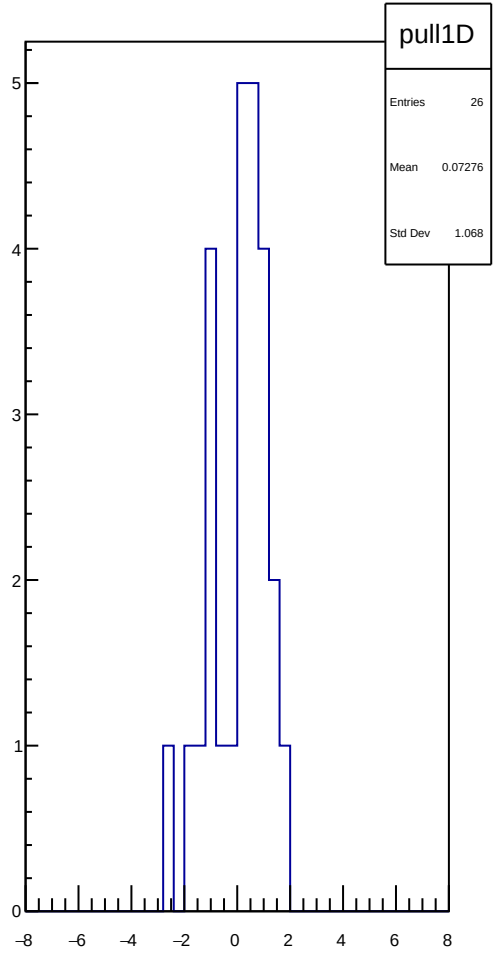

pull1D
Entries 26
Mean 0.8954
Std Dev 1.402
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

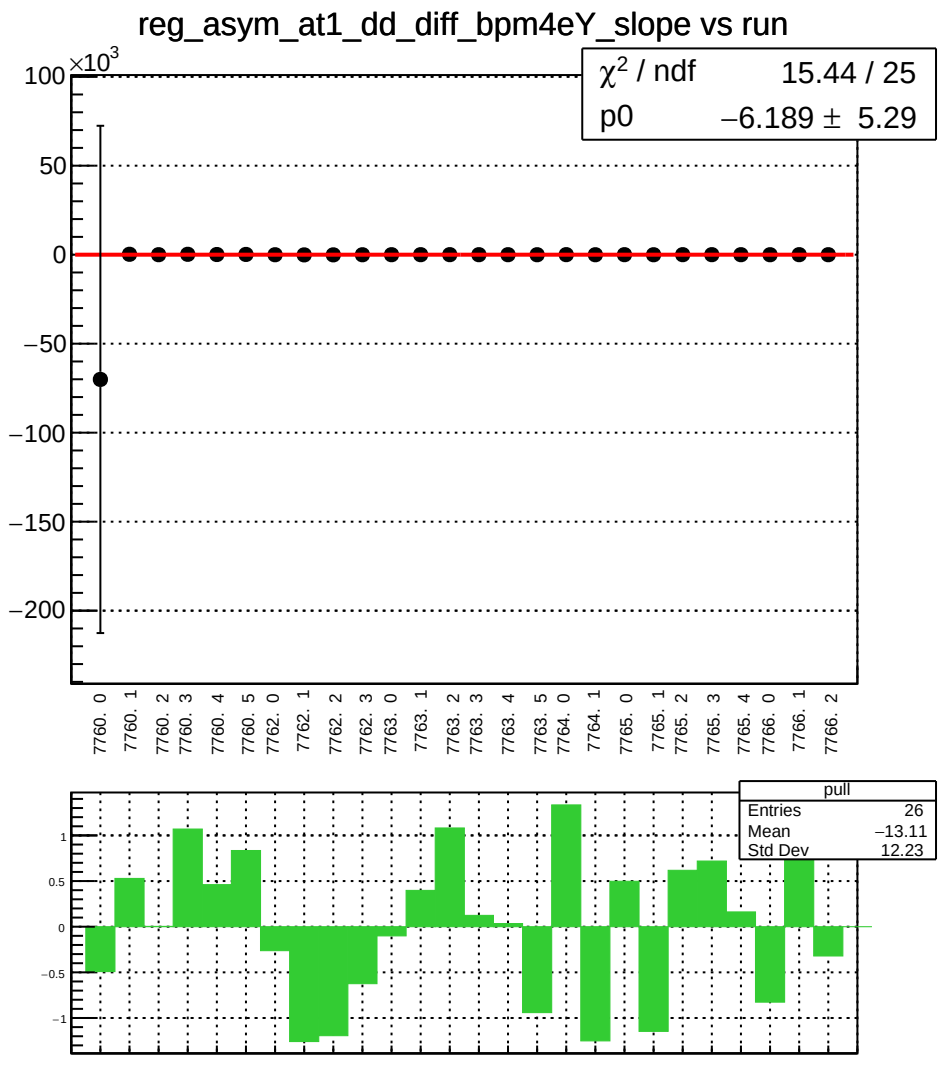

reg_asym_at1_dd_diff_bpm1X_slope vs run
×10^3
χ² / ndf 29.7 / 25
p0 0.6862 ± 4.37
0
−50
−100
−150
−200
−250
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 3.804
Std Dev 3.75
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

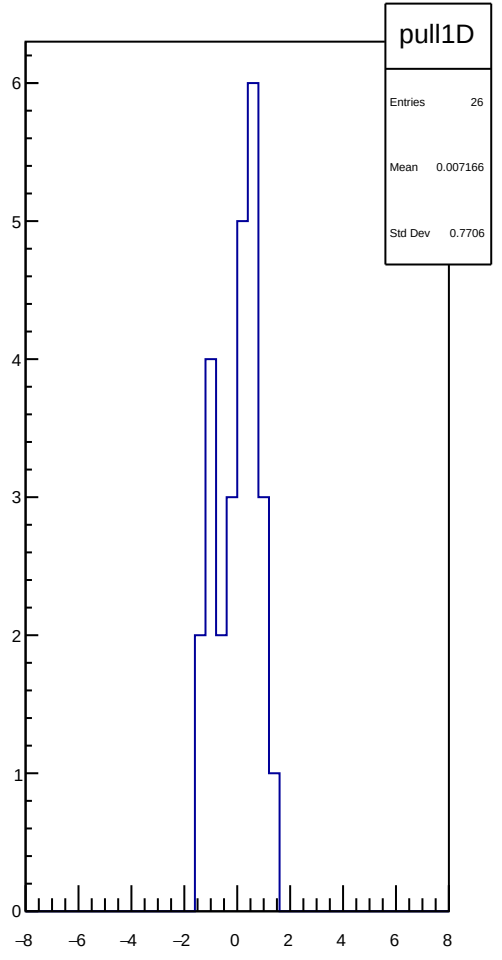

pull1D
Entries 26
Mean −0.06555
Std Dev 1.067
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

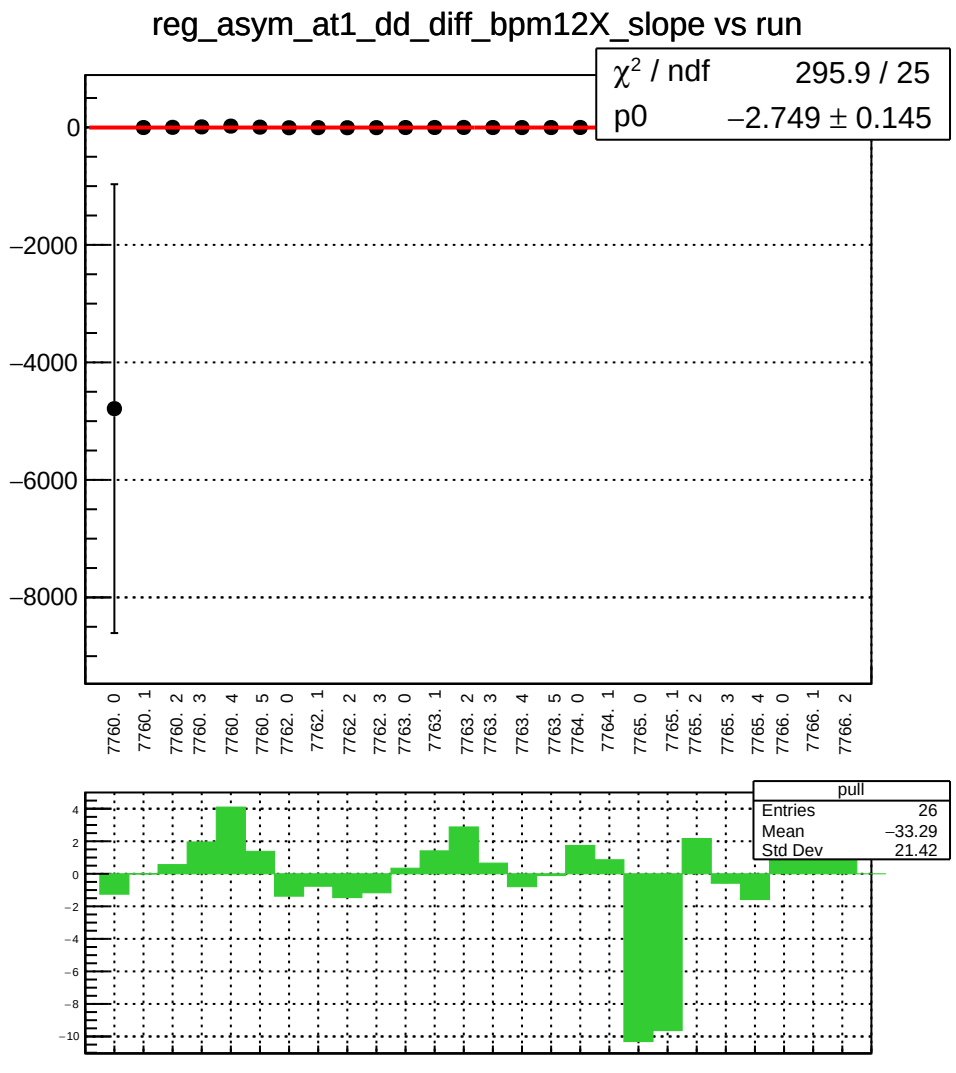

reg_asym_at1_dd_diff_bpm4aY_slope vs run
×10^3
χ^2 / ndf 15.63 / 25
p0 0.4504 ± 4.697
200
150
100
50
0
−50
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 135.6
Std Dev 170.4
1
0.5
0
−0.5
−1
pull1D
Entries 26
Mean 0.0002705
Std Dev 0.7753
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

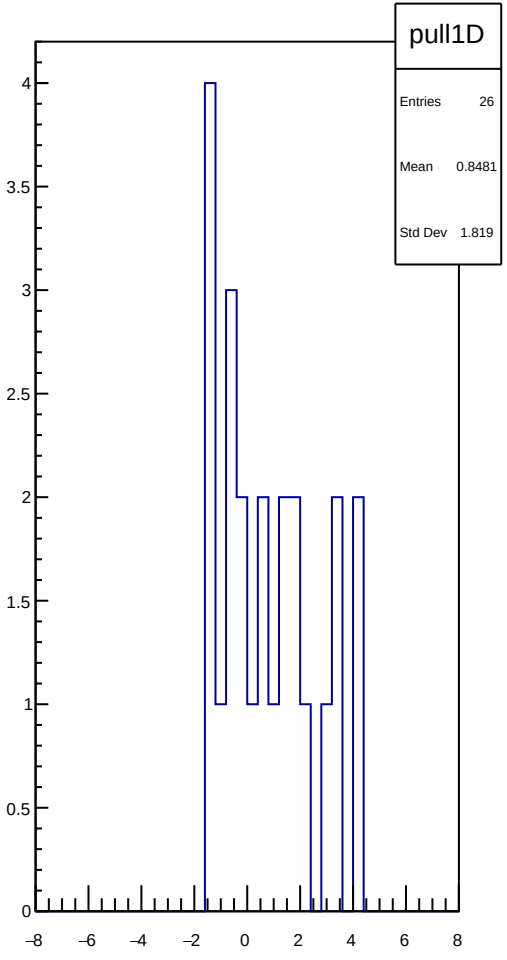

reg_asym_at1_dd_diff_bpm4eX_slope vs run
×10^3
χ² / ndf 29.78 / 25
p0 16.72 ± 4.047
200
150
100
50
0
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 3.937
Std Dev 3.917
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

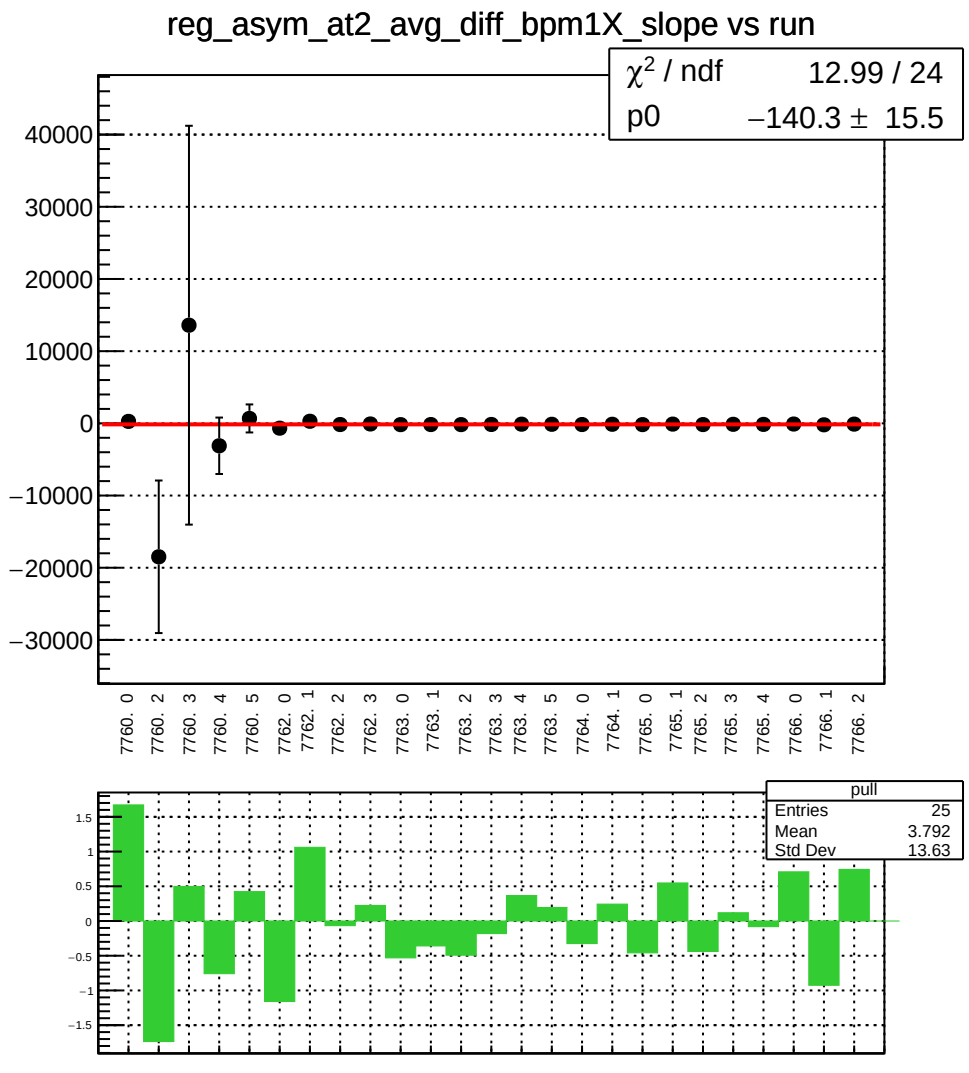

pull1D
Entries 26
Mean 0.07276
Std Dev 1.068
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

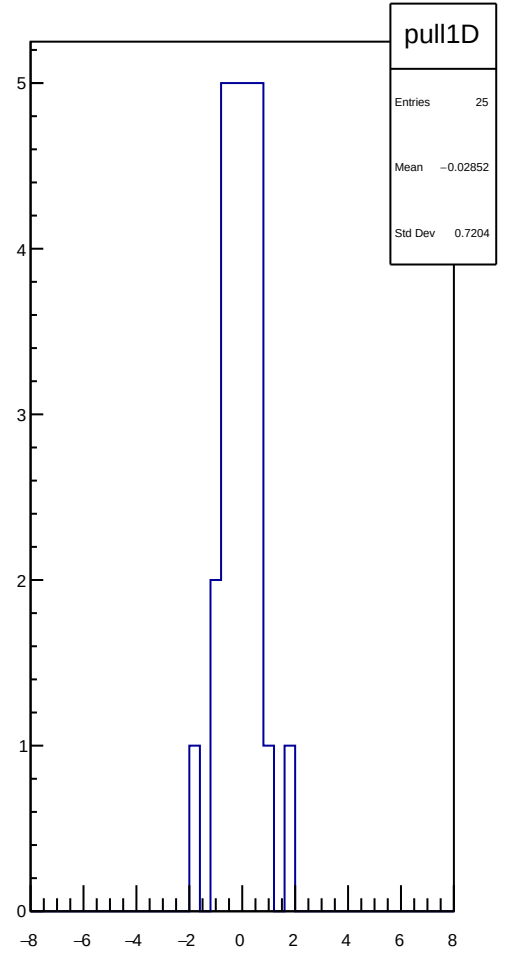

reg_asym_at1_dd_diff_bpm4eY_slope vs run
×10^3
χ² / ndf 15.44 / 25
p0 −6.189 ± 5.29
100
50
0
−50
−100
−150
−200
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −13.11
Std Dev 12.23
1
0.5
0
−0.5
−1

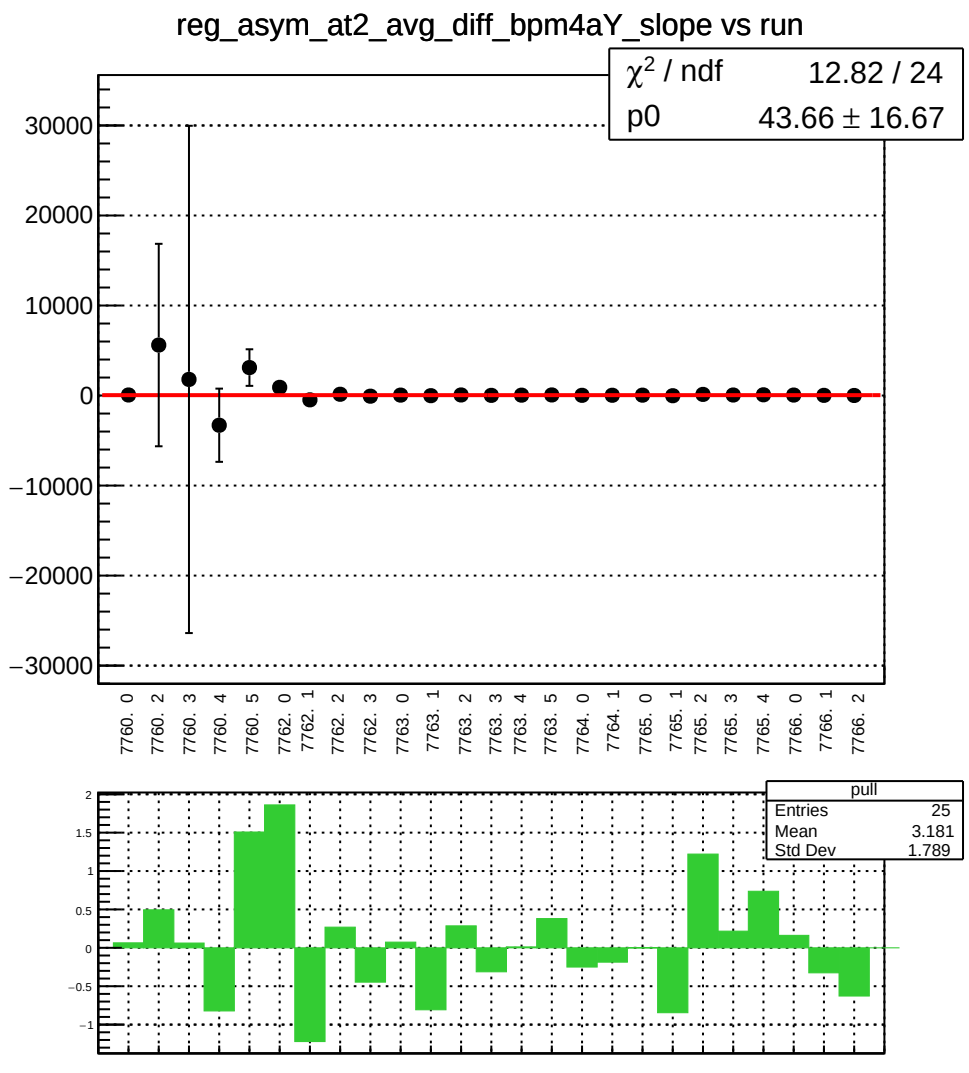

pull1D
Entries 26
Mean 0.007166
Std Dev 0.7706
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

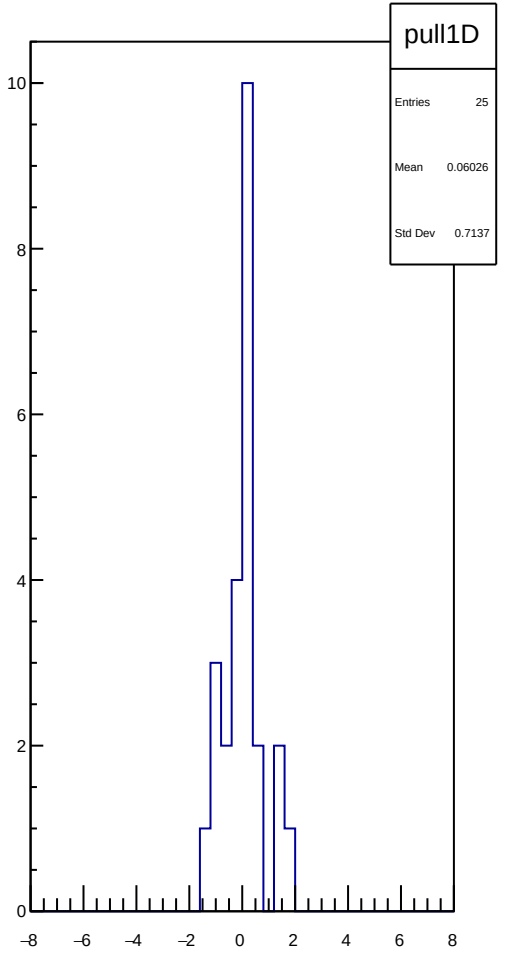

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 295.9 / 25
p0 −2.749 ± 0.145
0
−2000
−4000
−6000
−8000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −33.29
Std Dev 21.42
4
2
0
−2
−4
−6
−8
−10

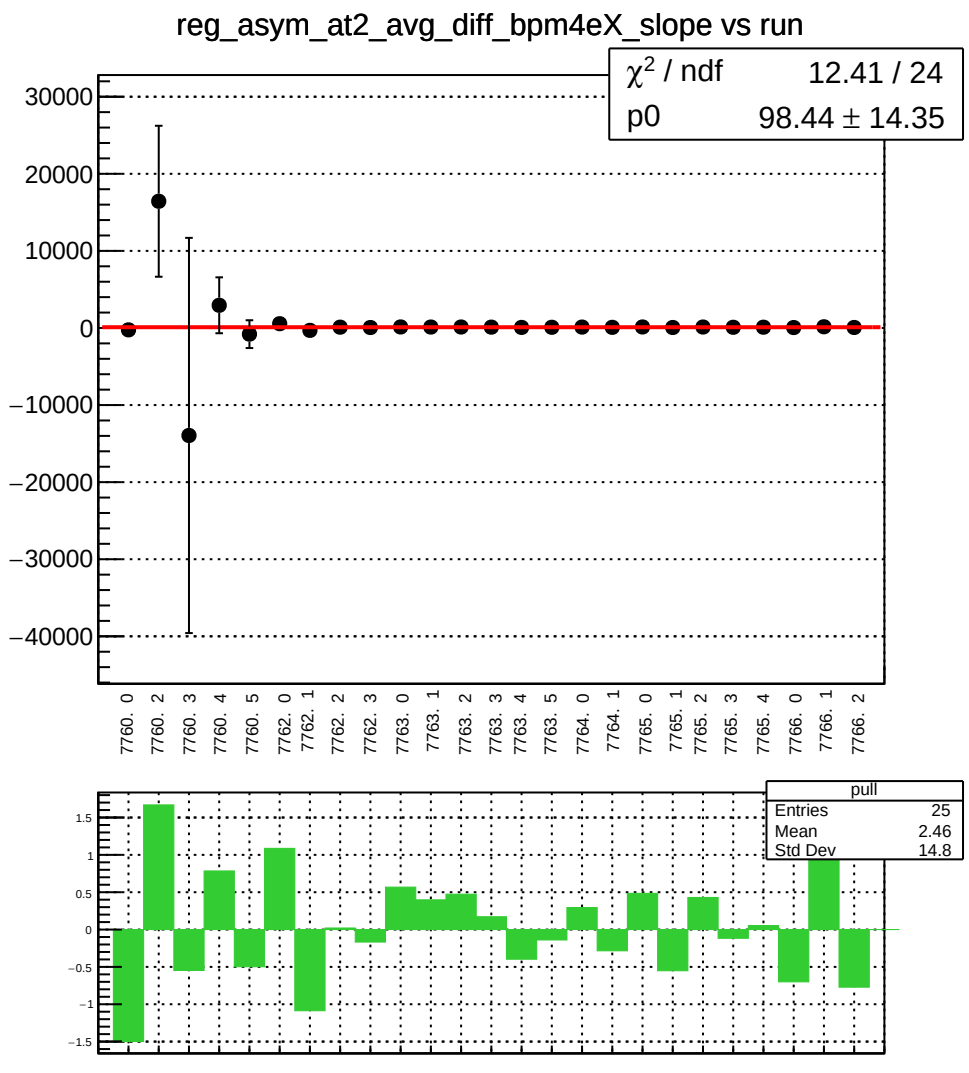

pull1D
Entries 26
Mean 0.8481
Std Dev 1.819
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

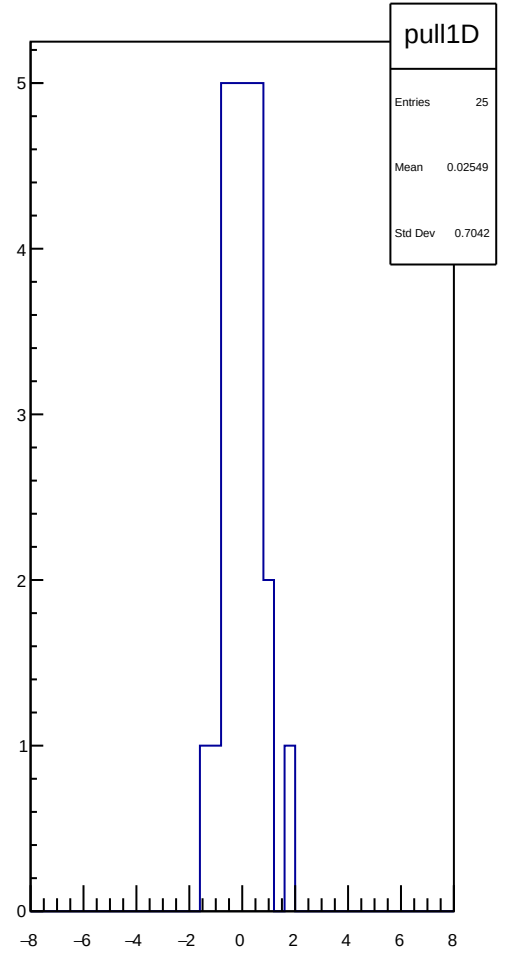

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 12.99 / 24
p0 −140.3 ± 15.5
40000
30000
20000
10000
0
−10000
−20000
−30000
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 3.792
Std Dev 13.63
1.5
1
0.5
0
−0.5
−1
−1.5

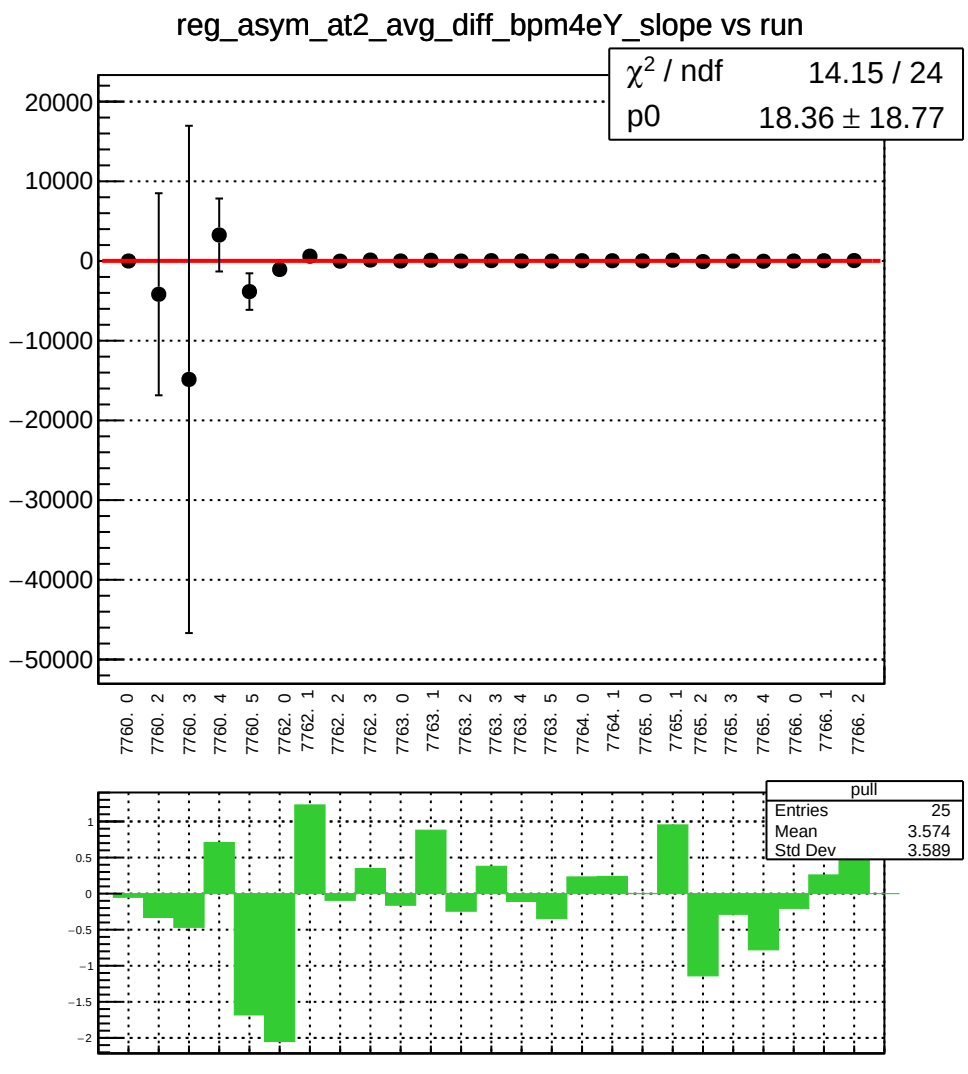

pull1D
Entries 25
Mean −0.02852
Std Dev 0.7204
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

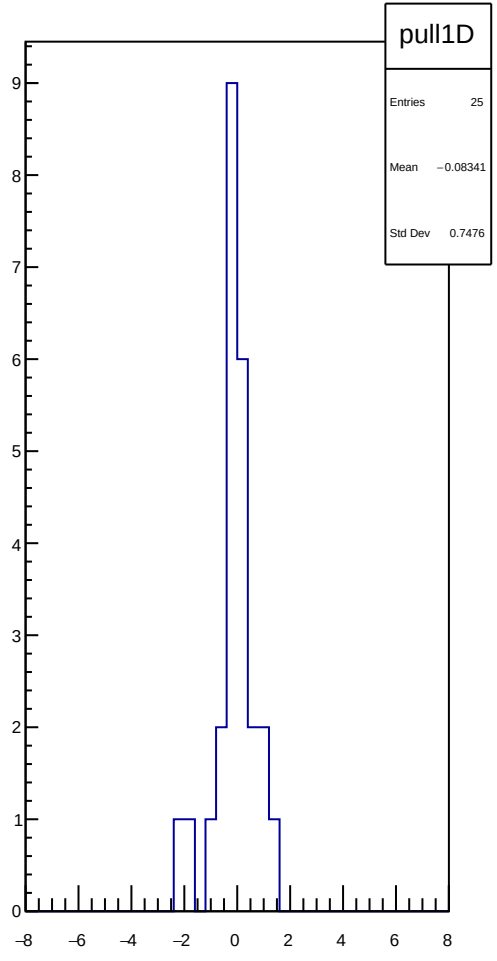

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 12.82 / 24
p0 43.66 ± 16.67
30000
20000
10000
0
−10000
−20000
−30000
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 3.181
Std Dev 1.789
2
1.5
1
0.5
0
−0.5
−1

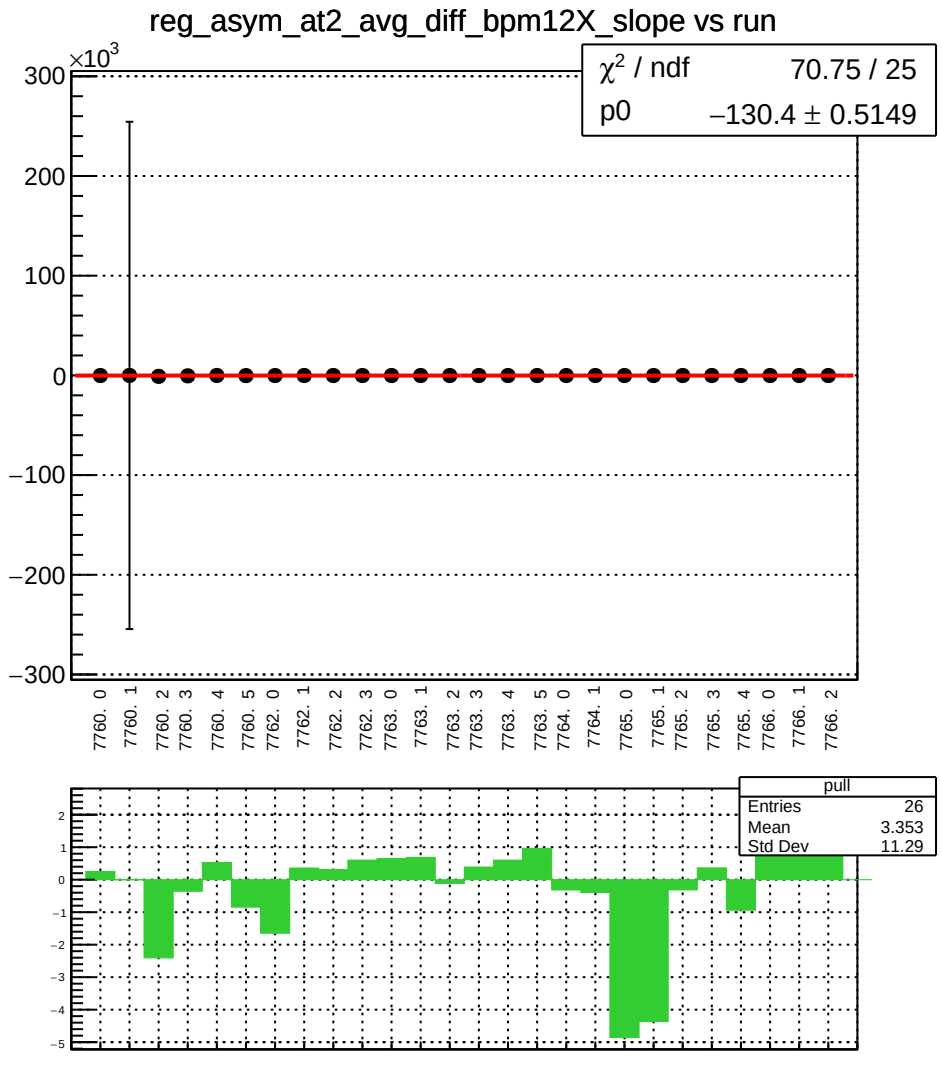

pull1D
Entries 25
Mean 0.06026
Std Dev 0.7137
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

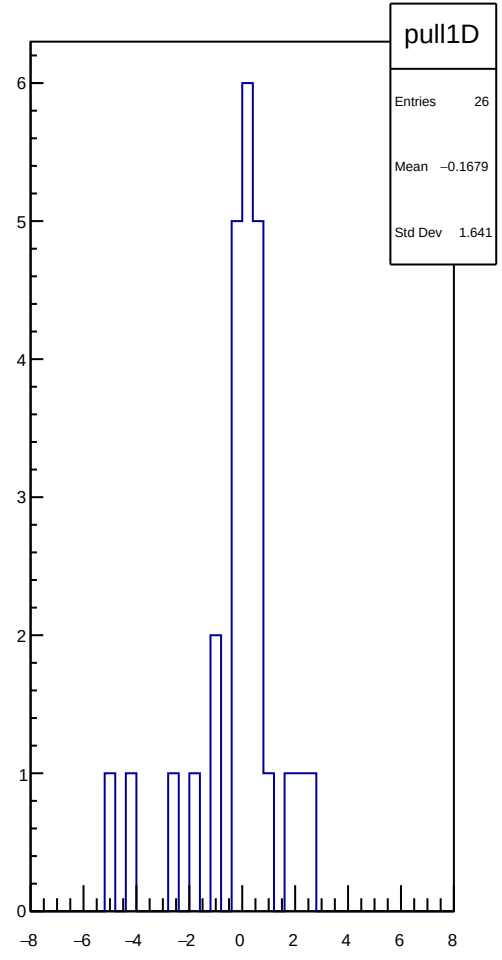

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 12.41 / 24
p0 98.44 ± 14.35
30000
20000
10000
0
−10000
−20000
−30000
−40000
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 2.46
Std Dev 14.8
1.5
1
0.5
0
−0.5
−1
−1.5

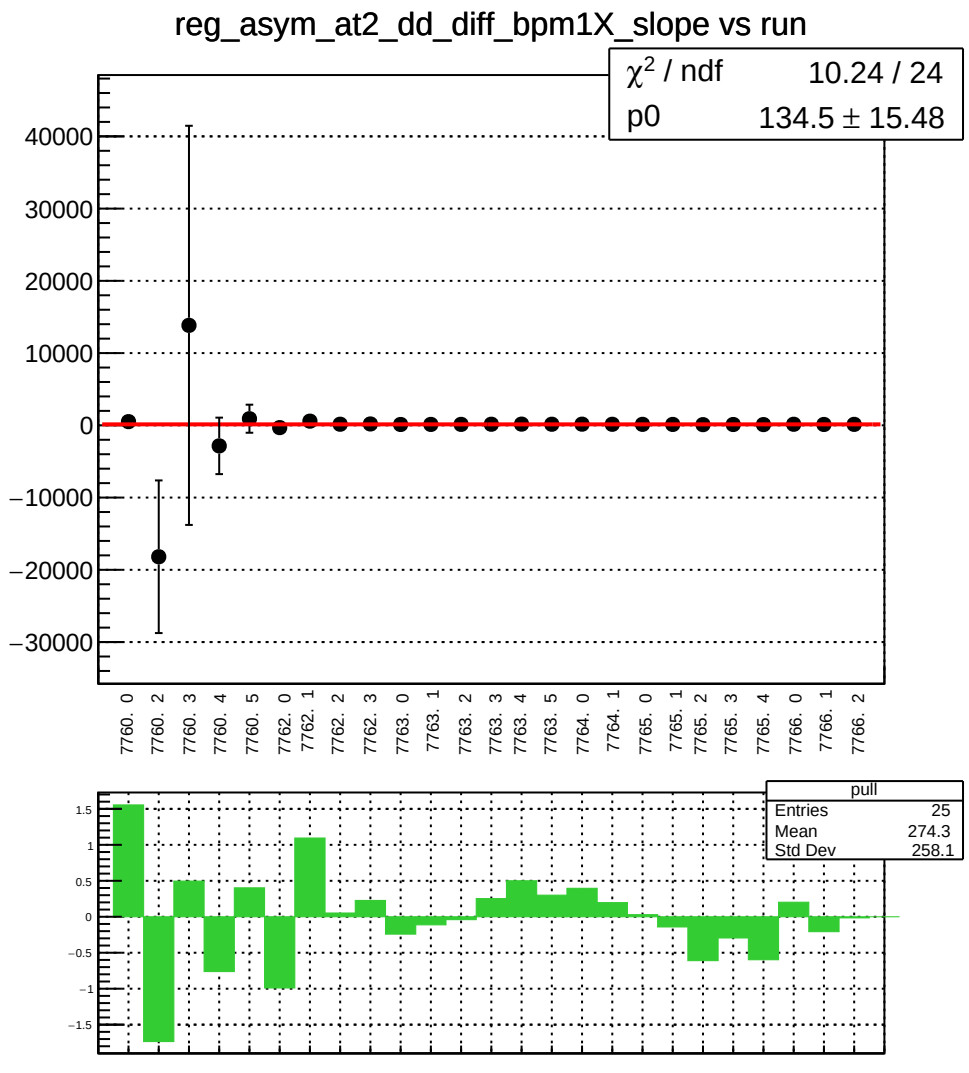

pull1D
Entries 25
Mean 0.02549
Std Dev 0.7042
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

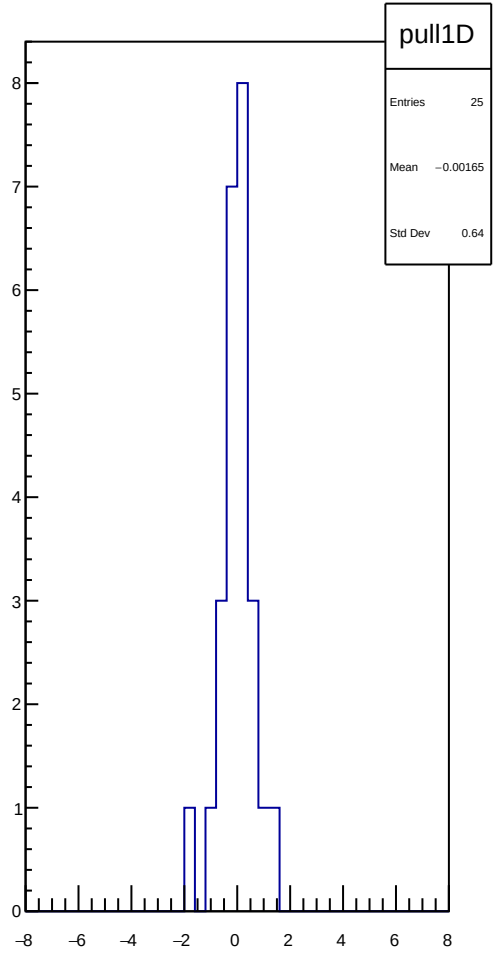

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 14.15 / 24
p0 18.36 ± 18.77
20000
10000
0
−10000
−20000
−30000
−40000
−50000
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 3.574
Std Dev 3.589
1
0.5
0
−0.5
−1
−1.5
−2

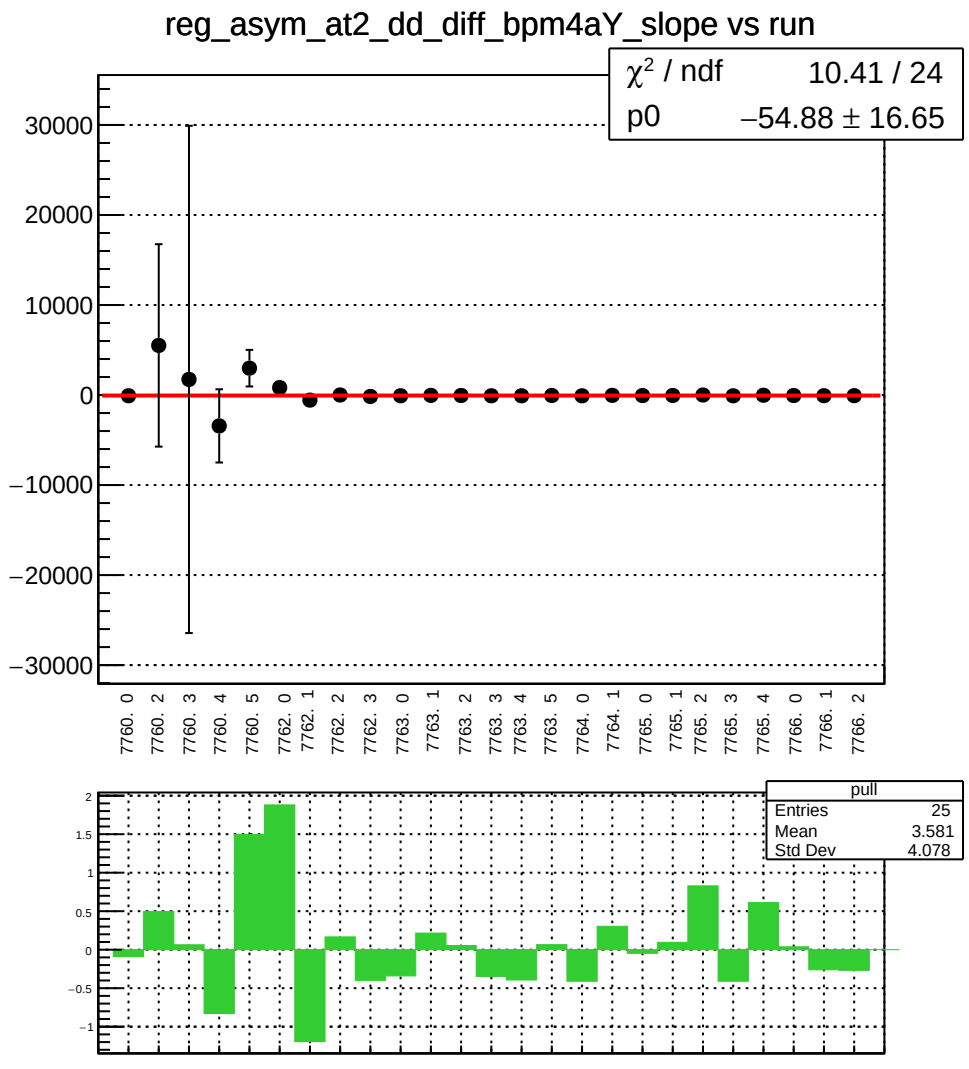

pull1D
Entries 25
Mean −0.08341
Std Dev 0.7476
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

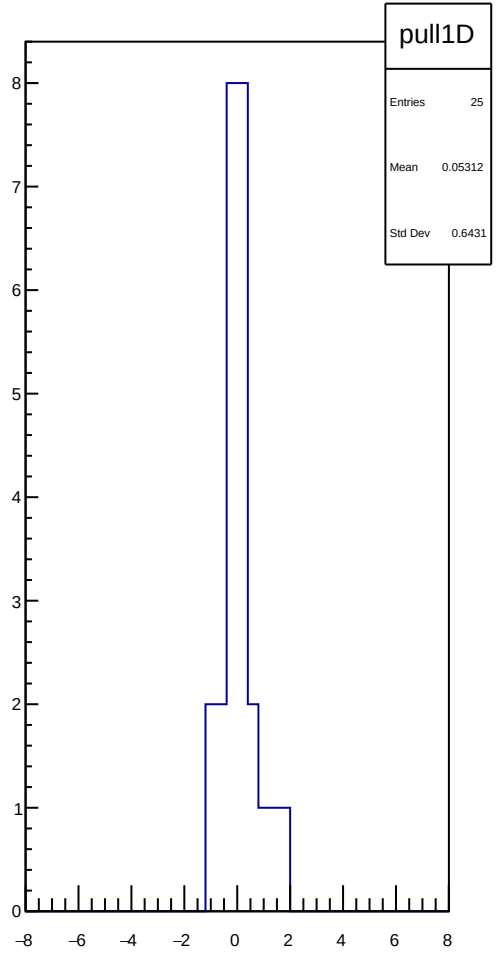

reg_asym_at2_avg_diff_bpm12X_slope vs run
×10^3
χ² / ndf 70.75 / 25
p0 −130.4 ± 0.5149
300
200
100
0
−100
−200
−300
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 3.353
Std Dev 11.29
2
1
0
−1
−2
−3
−4
−5

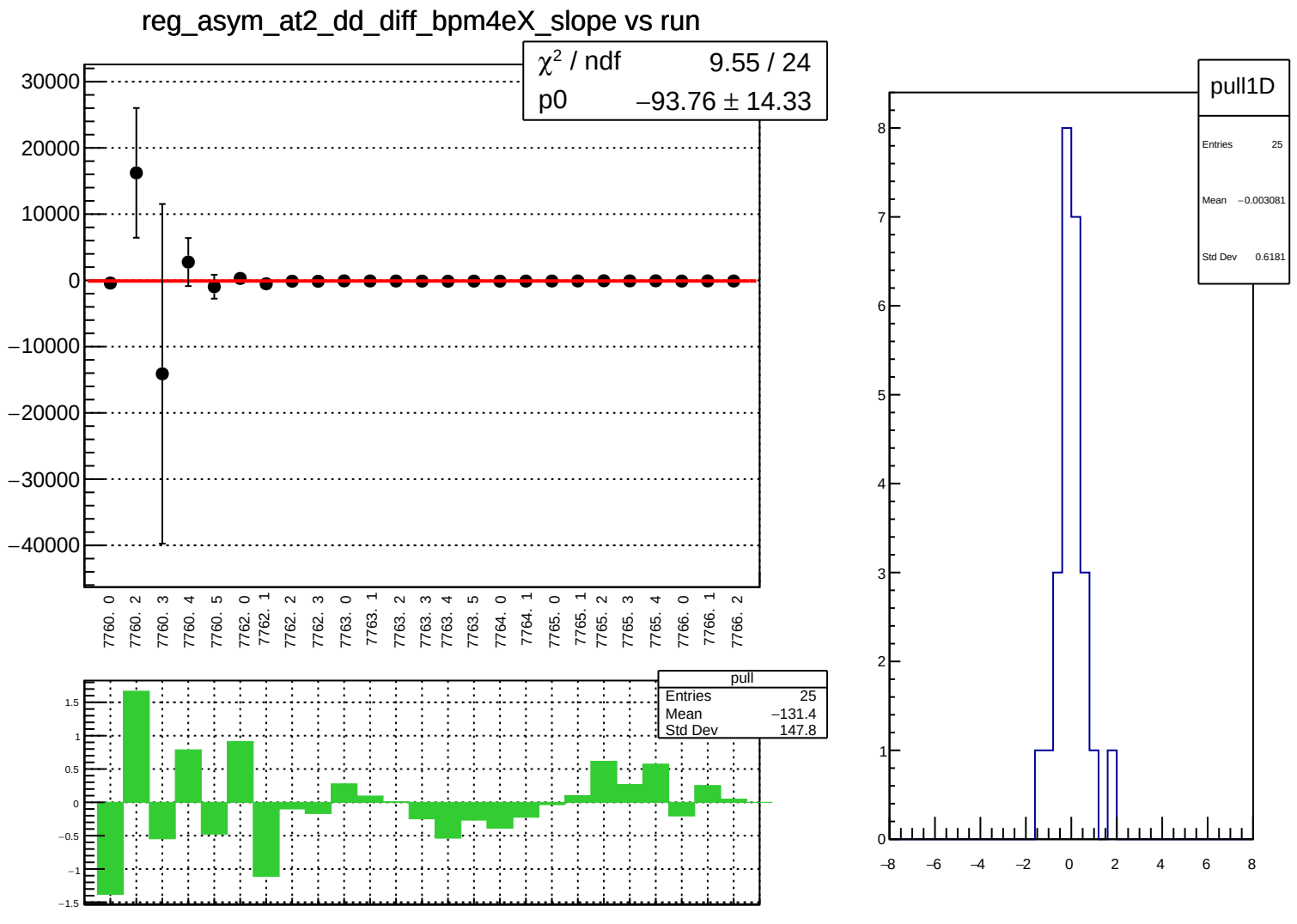

pull1D
Entries 26
Mean −0.1679
Std Dev 1.641
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

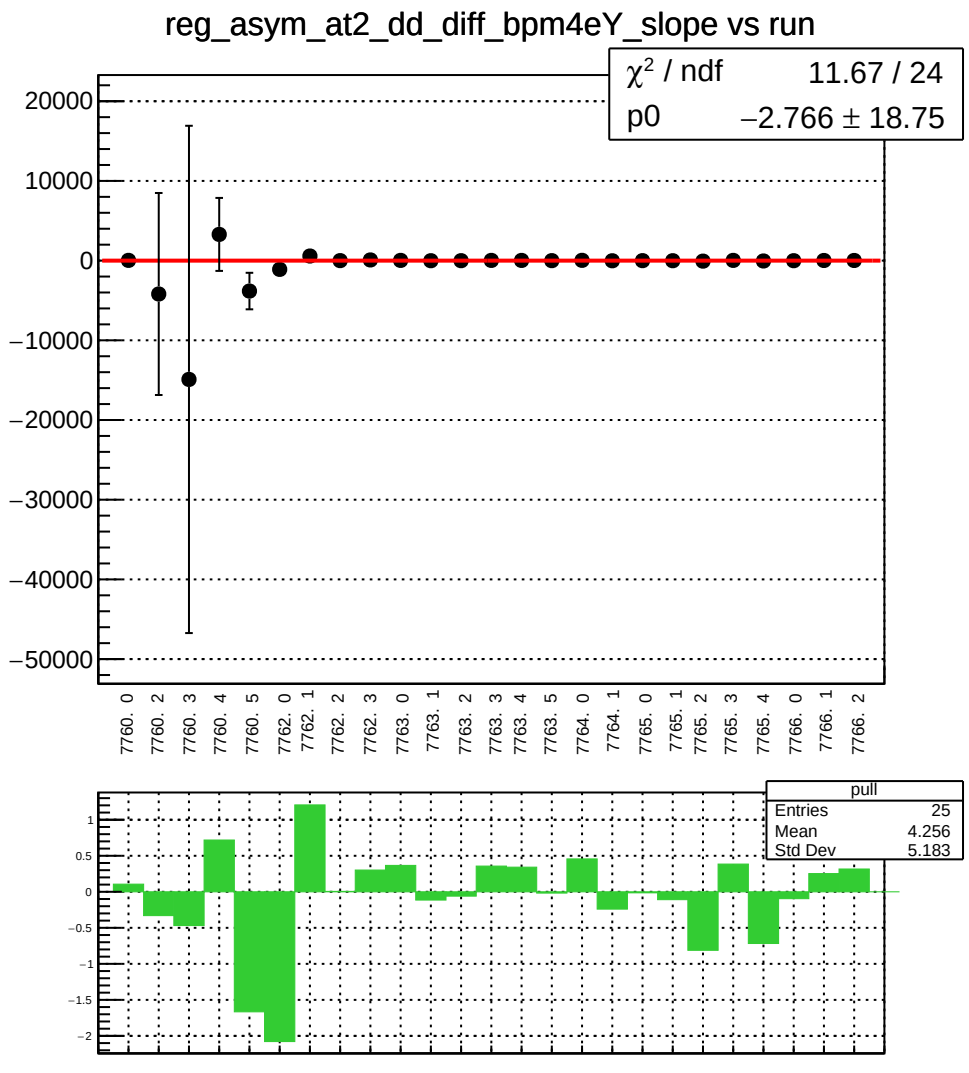

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 10.24 / 24
p0 134.5 ± 15.48
40000
30000
20000
10000
0
−10000
−20000
−30000
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 274.3
Std Dev 258.1
1.5
1
0.5
0
−0.5
−1
−1.5

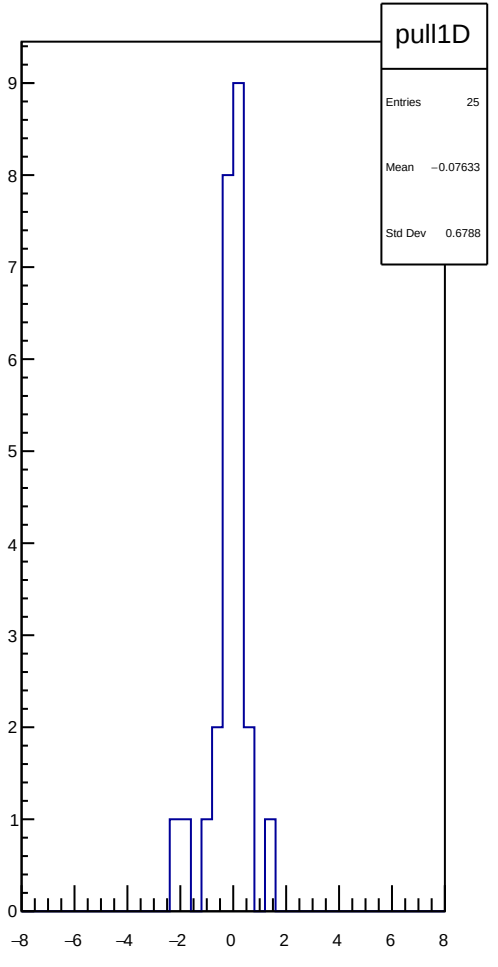

pull1D
Entries 25
Mean −0.00165
Std Dev 0.64
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

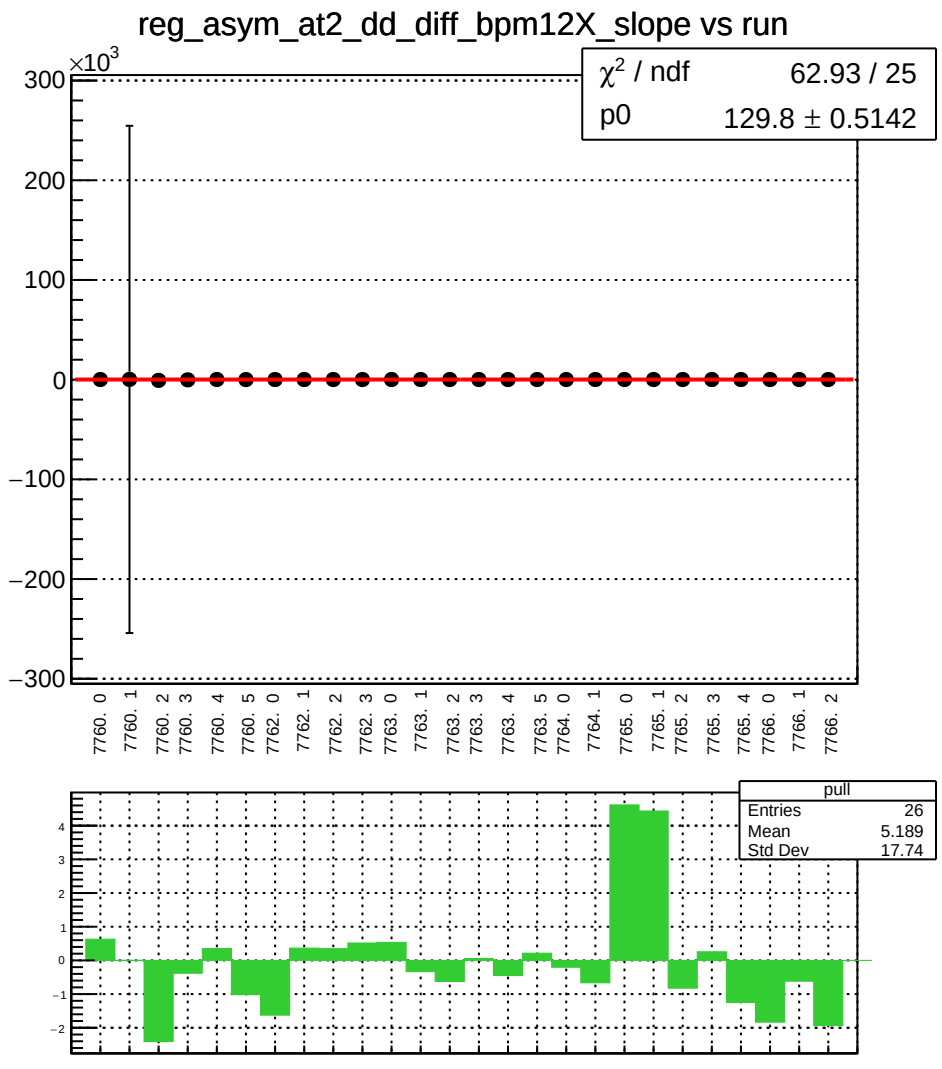

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.41 / 24
p0 −54.88 ± 16.65
30000
20000
10000
0
−10000
−20000
−30000
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 3.581
Std Dev 4.078
2
1.5
1
0.5
0
−0.5
−1

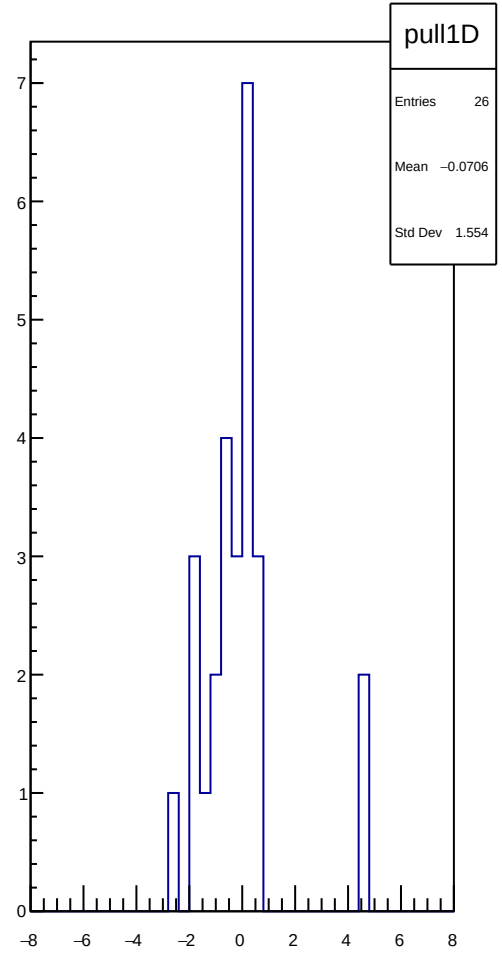

pull1D
Entries 25
Mean 0.05312
Std Dev 0.6431
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

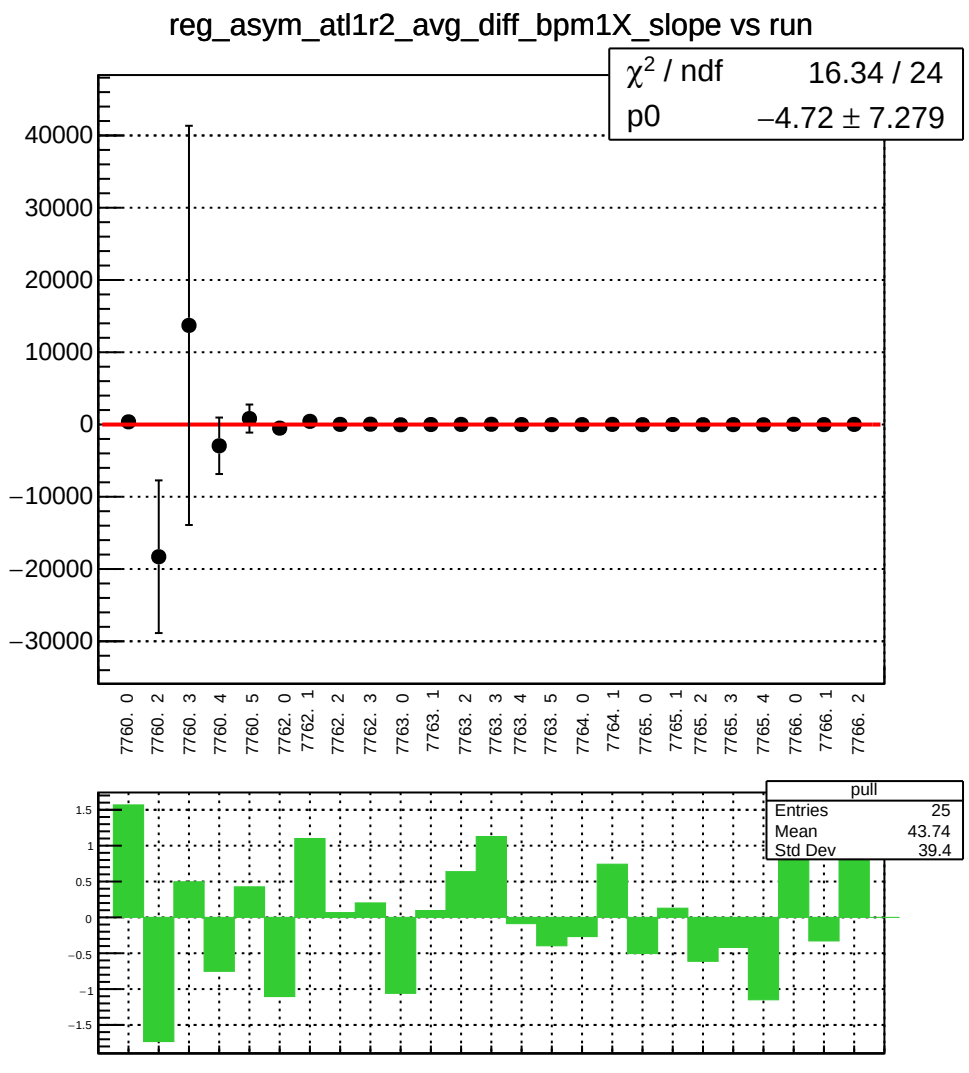

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.55 / 24
p0 −93.76 ± 14.33
30000
20000
10000
0
−10000
−20000
−30000
−40000
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −131.4
Std Dev 147.8
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 25
Mean −0.003081
Std Dev 0.6181
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

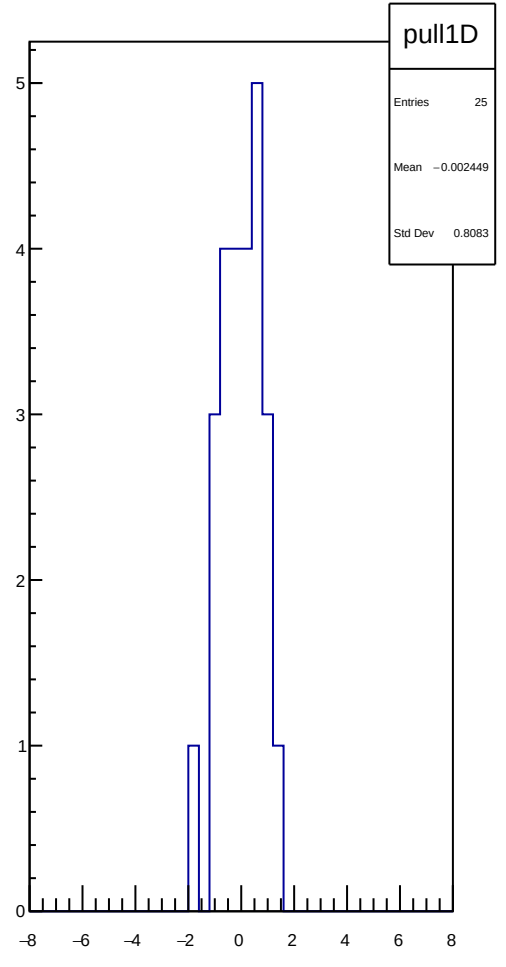

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.67 / 24
p0 −2.766 ± 18.75
20000
10000
0
−10000
−20000
−30000
−40000
−50000
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 4.256
Std Dev 5.183
1
0.5
0
−0.5
−1
−1.5
−2

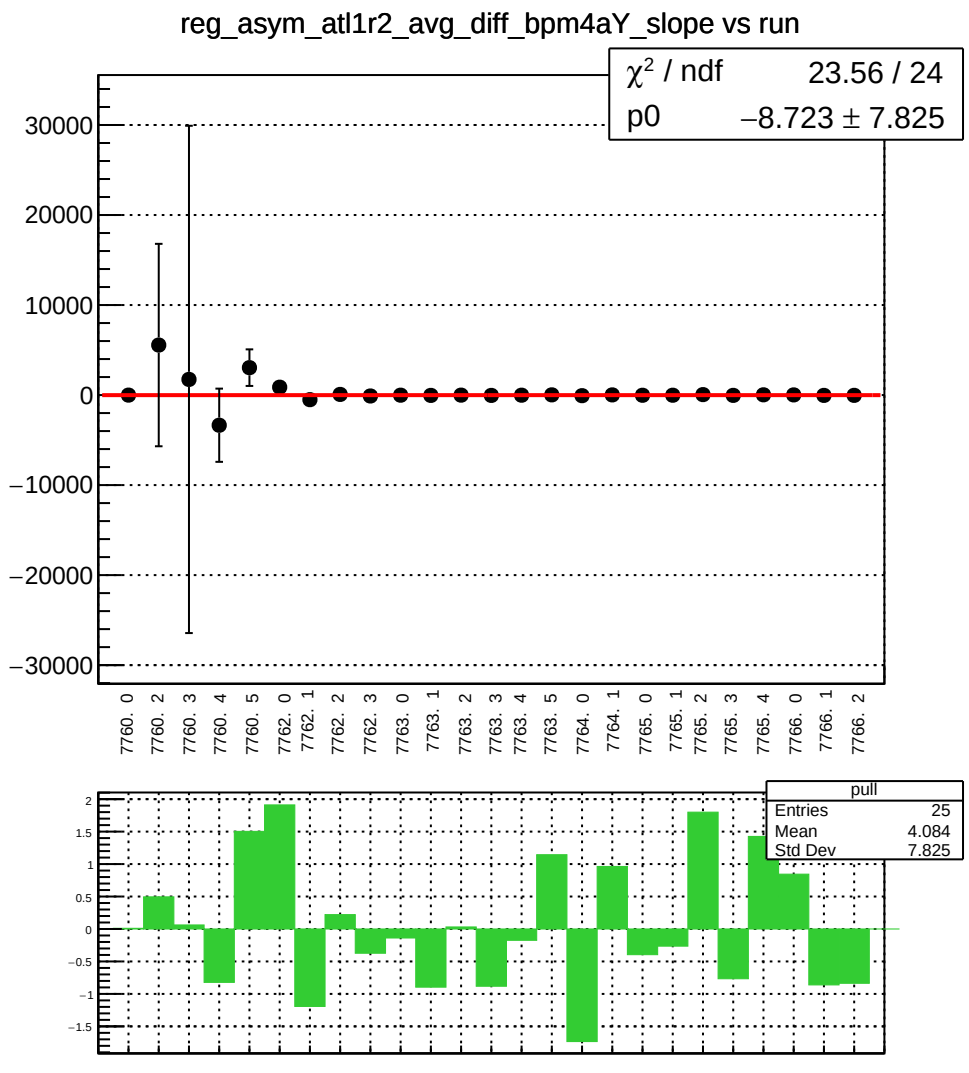

pull1D
Entries 25
Mean −0.07633
Std Dev 0.6788
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

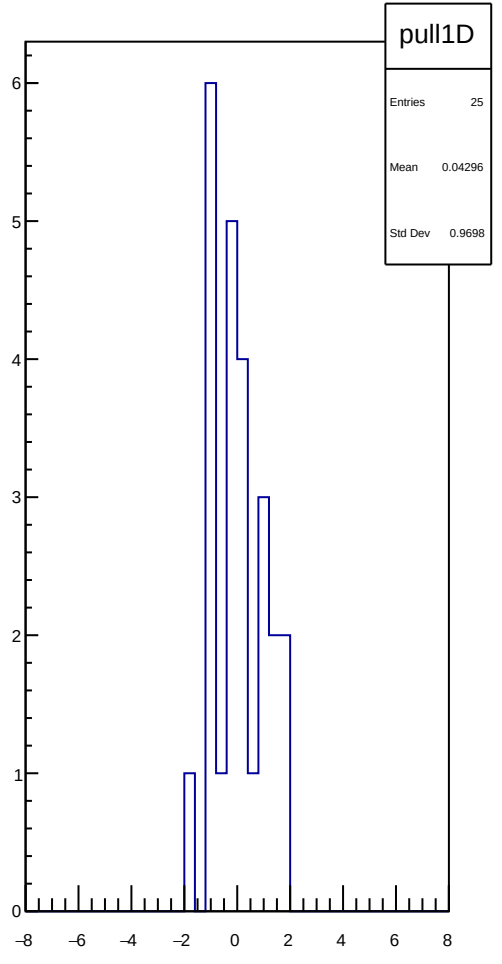

reg_asym_at2_dd_diff_bpm12X_slope vs run
×10^3
χ² / ndf 62.93 / 25
p0 129.8 ± 0.5142
300
200
100
0
−100
−200
−300
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 5.189
Std Dev 17.74
4
3
2
1
0
−1
−2

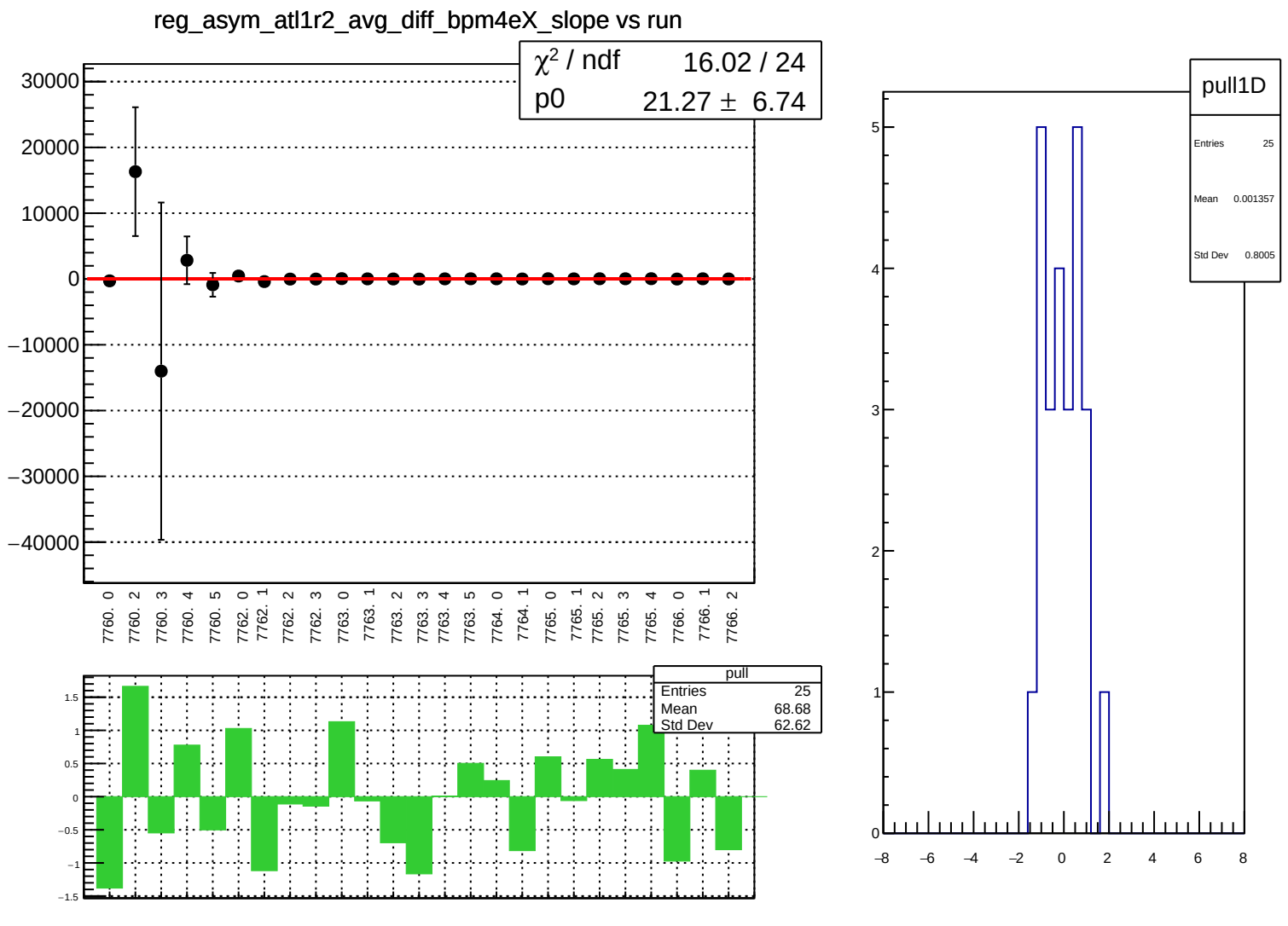

pull1D
Entries 26
Mean −0.0706
Std Dev 1.554
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

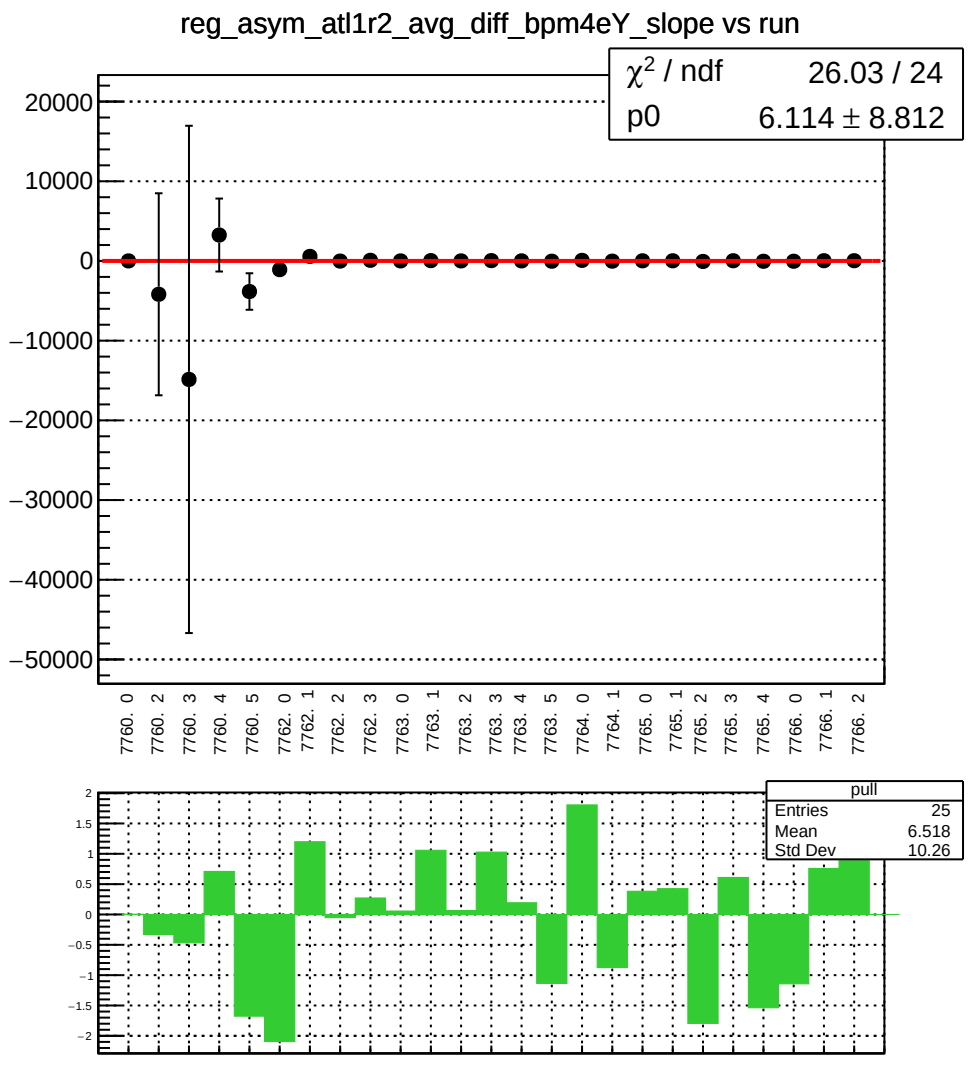

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 16.34 / 24
p0 −4.72 ± 7.279
40000
30000
20000
10000
0
−10000
−20000
−30000
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 43.74
Std Dev 39.4
1.5
1
0.5
0
−0.5
−1
−1.5

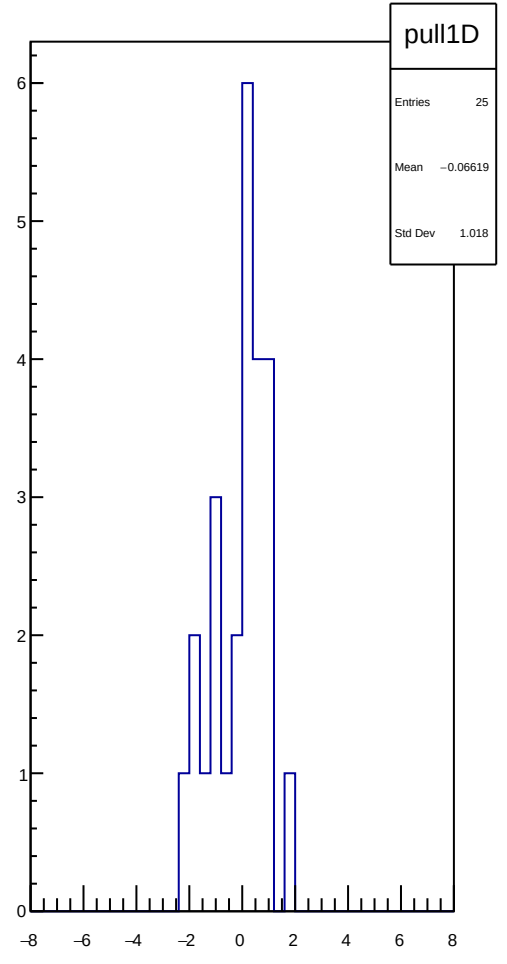

pull1D
Entries 25
Mean −0.002449
Std Dev 0.8083
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

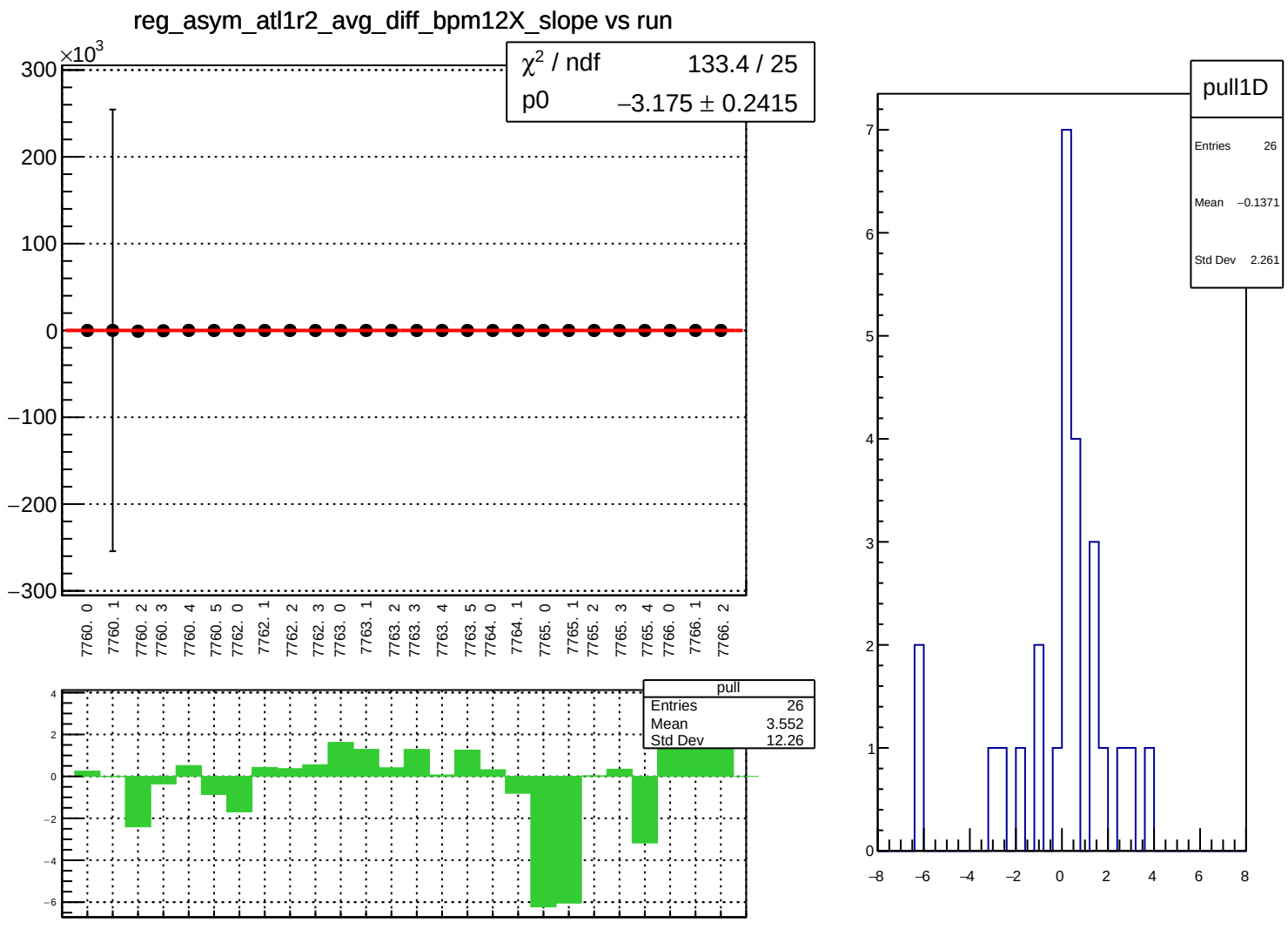

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 23.56 / 24
p0 −8.723 ± 7.825
30000
20000
10000
0
−10000
−20000
−30000
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 4.084
Std Dev 7.825
2
1.5
1
0.5
0
−0.5
−1
−1.5

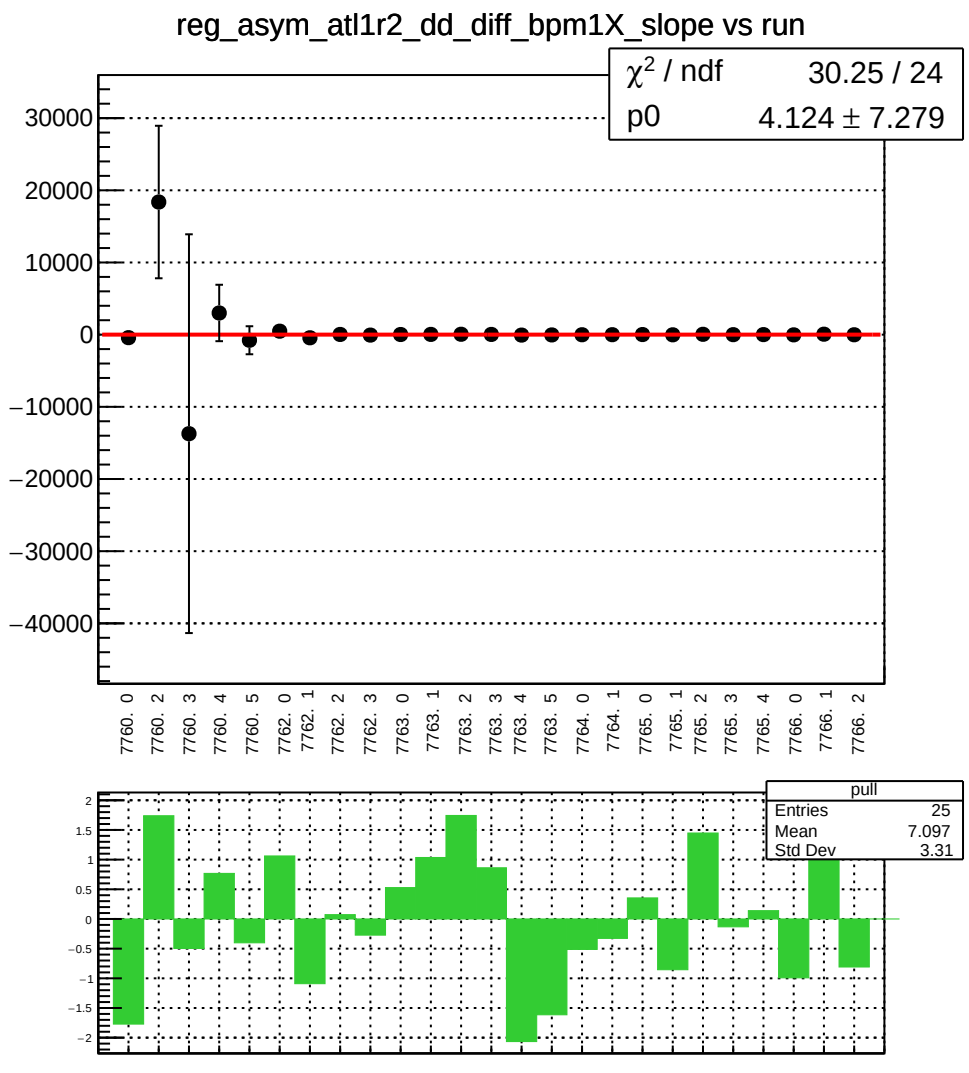

pull1D
Entries 25
Mean 0.04296
Std Dev 0.9698
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

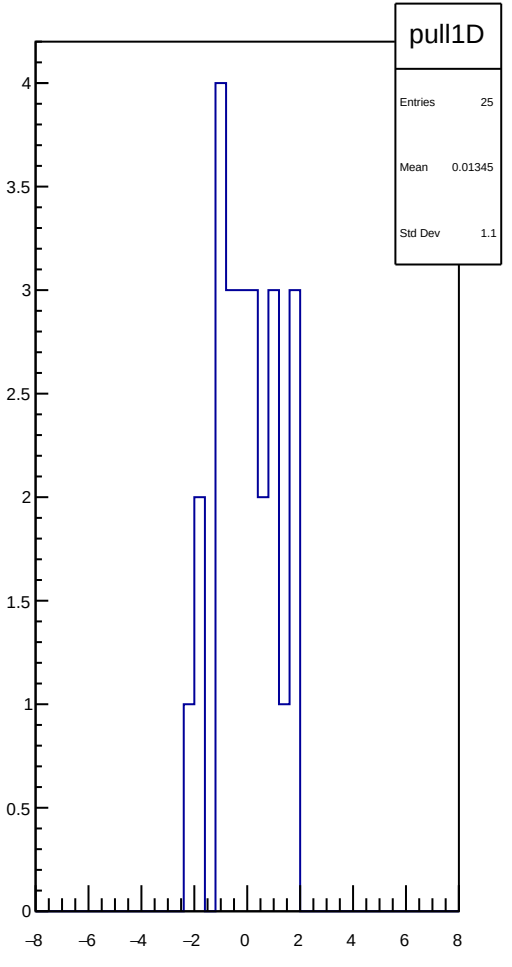

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 16.02 / 24
p0 21.27 ± 6.74
30000
20000
10000
0
−10000
−20000
−30000
−40000
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 68.68
Std Dev 62.62
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 25
Mean 0.001357
Std Dev 0.8005
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

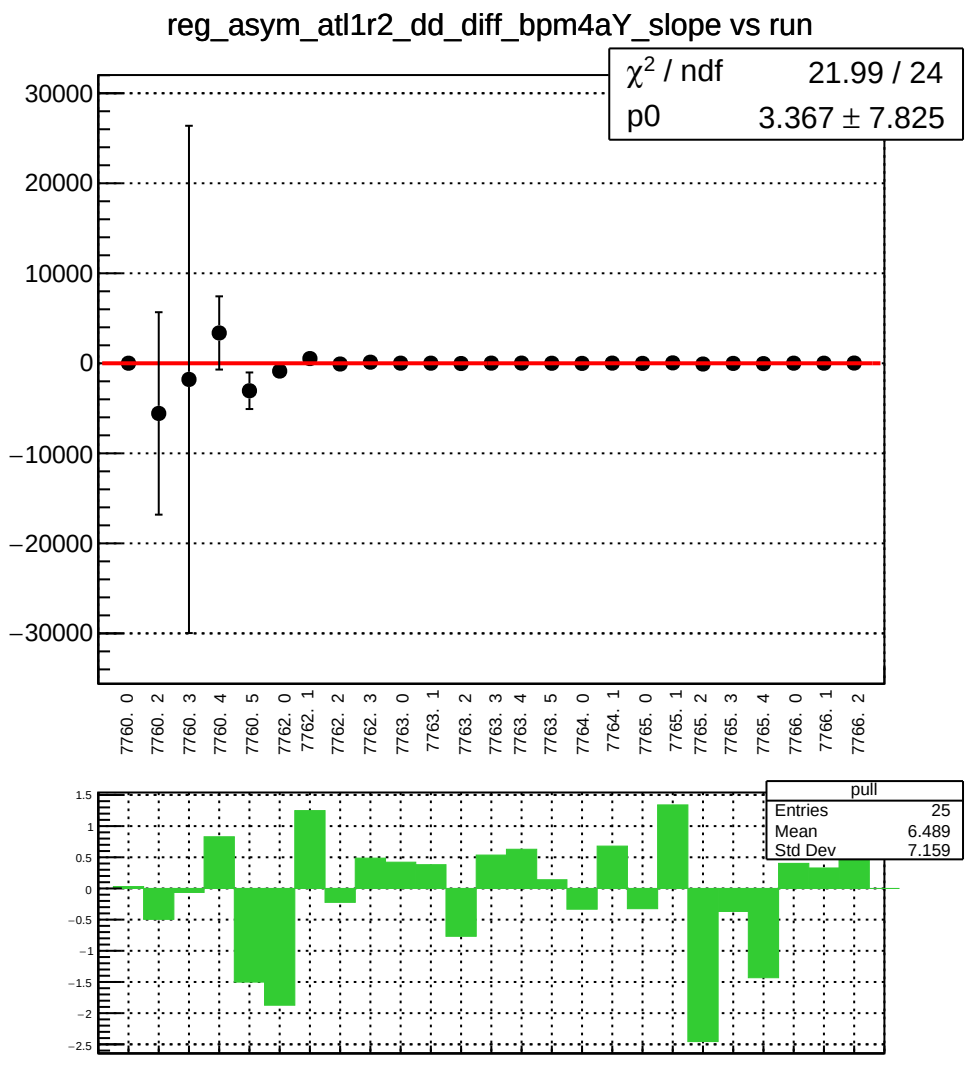

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 26.03 / 24
p0 6.114 ± 8.812
20000
10000
0
−10000
−20000
−30000
−40000
−50000
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 6.518
Std Dev 10.26
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

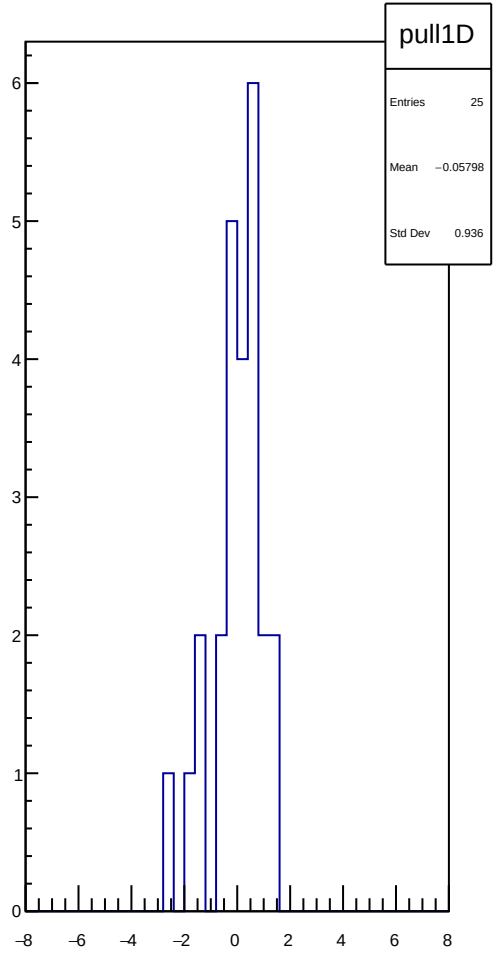

pull1D
Entries 25
Mean −0.06619
Std Dev 1.018
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

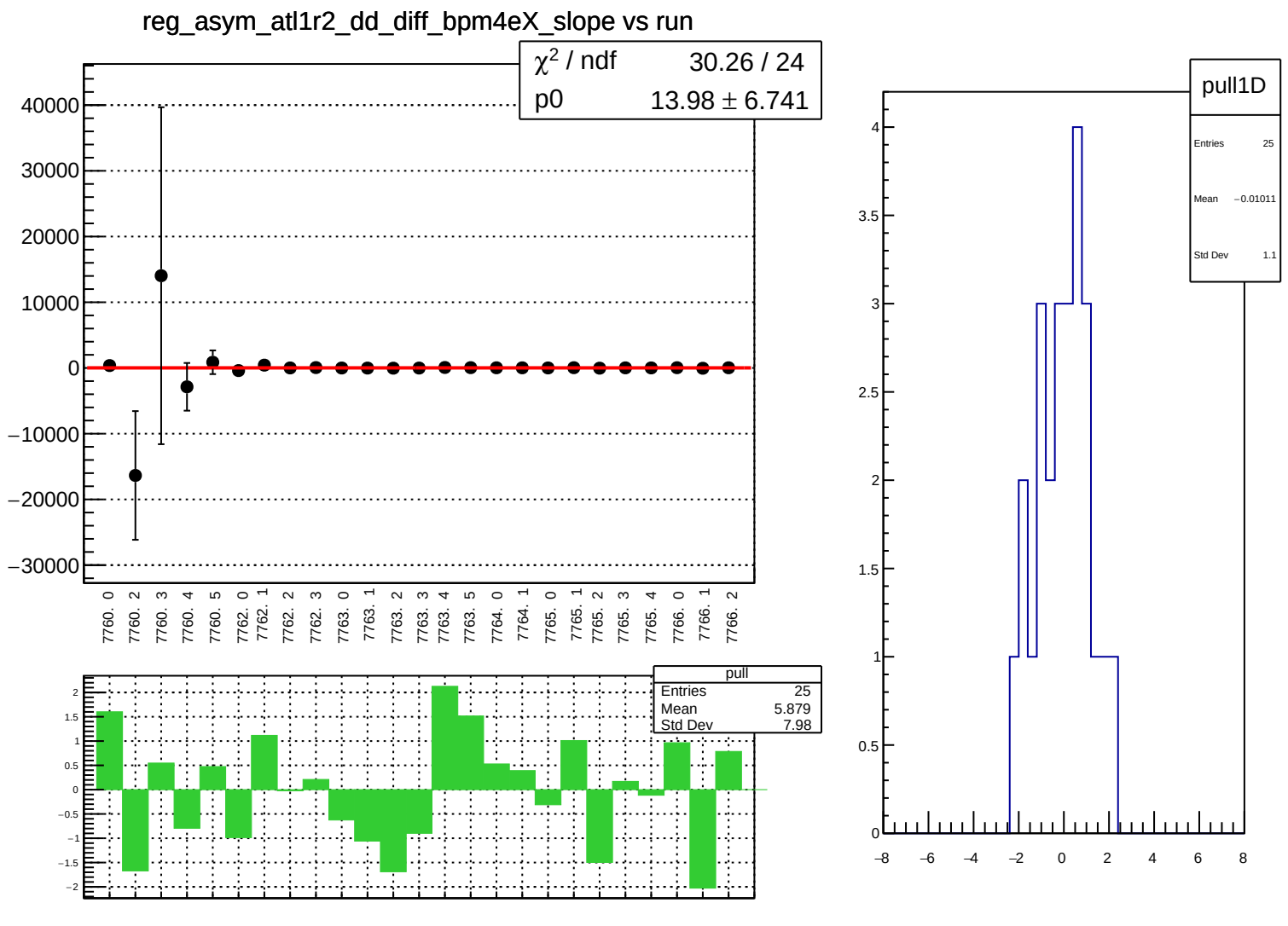

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
×10^3
χ² / ndf 133.4 / 25
p0 −3.175 ± 0.2415
300
200
100
0
−100
−200
−300
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 3.552
Std Dev 12.26
4
2
0
−2
−4
−6
pull1D
Entries 26
Mean −0.1371
Std Dev 2.261
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

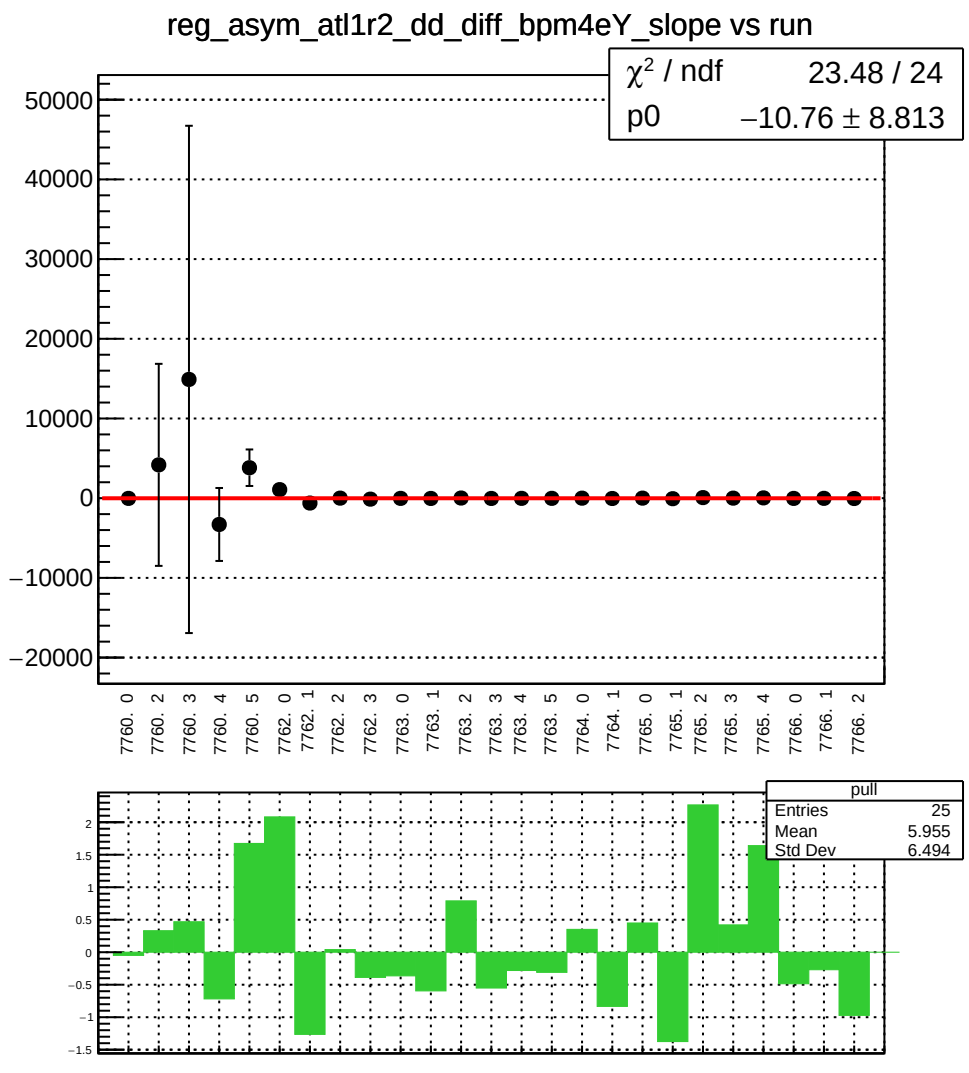

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 30.25 / 24
p0 4.124 ± 7.279
30000
20000
10000
0
−10000
−20000
−30000
−40000
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 7.097
Std Dev 3.31
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

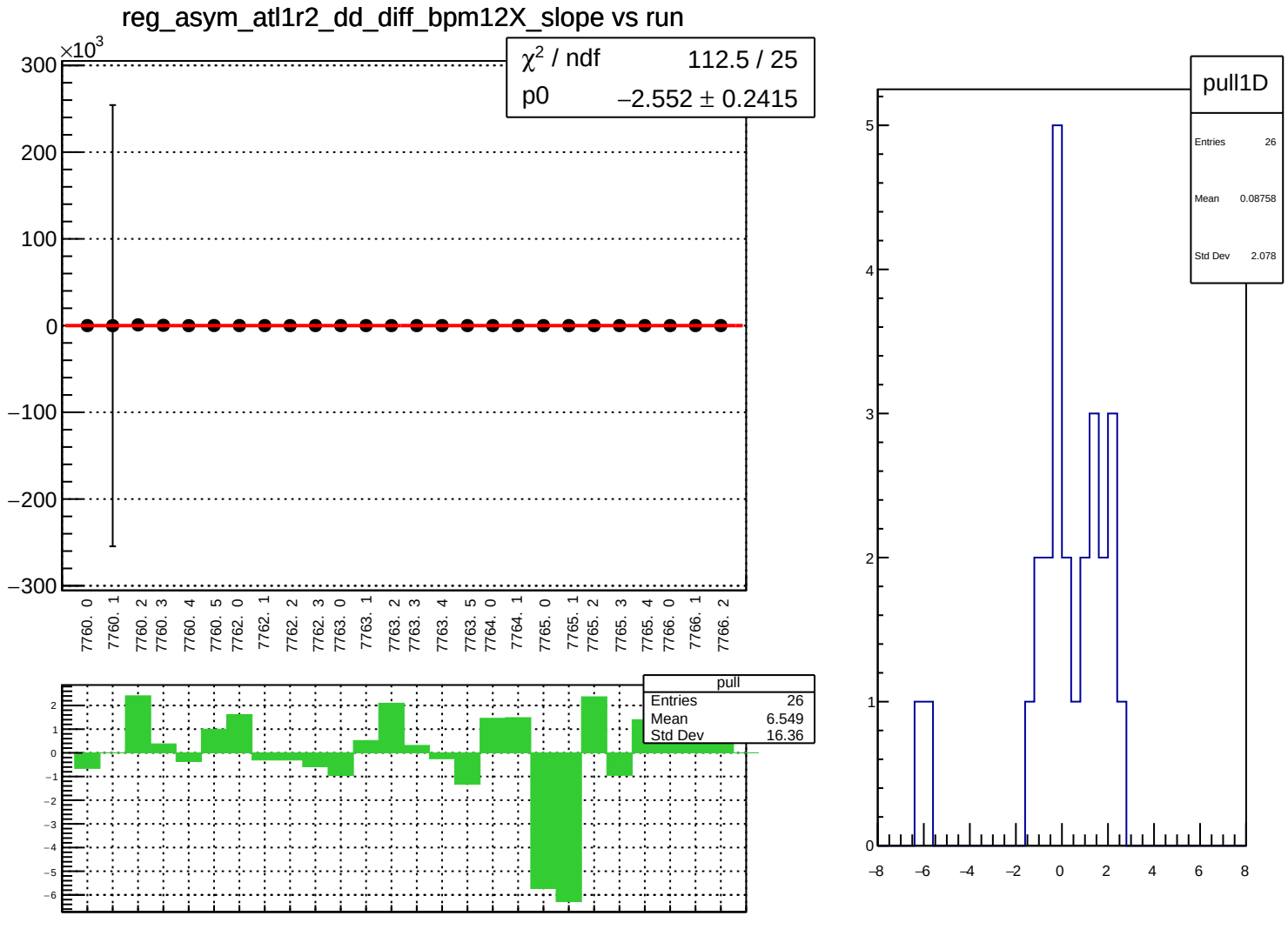

pull1D
Entries 25
Mean 0.01345
Std Dev 1.1
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

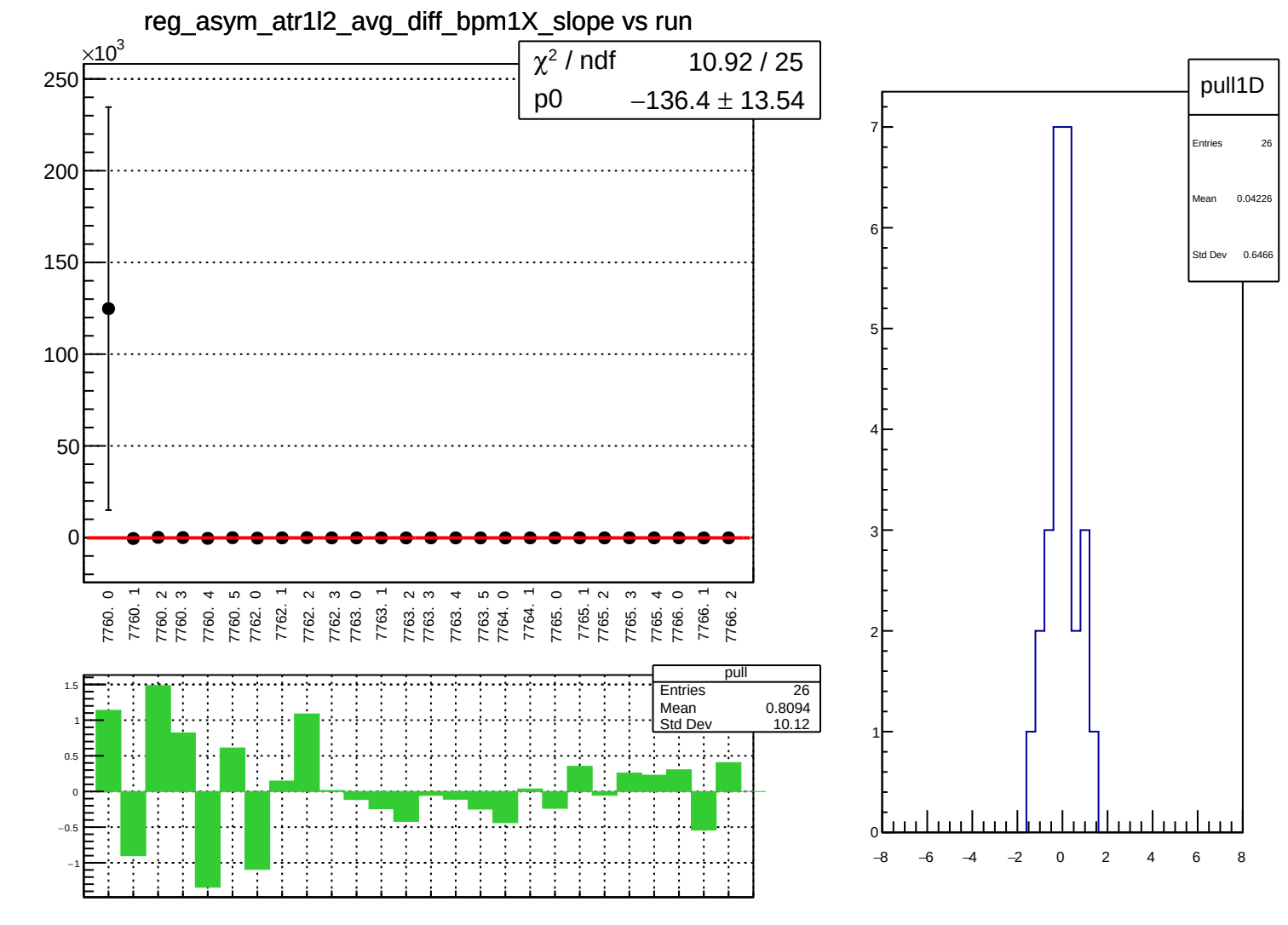

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 21.99 / 24
p0 3.367 ± 7.825
30000
20000
10000
0
−10000
−20000
−30000
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 6.489
Std Dev 7.159
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

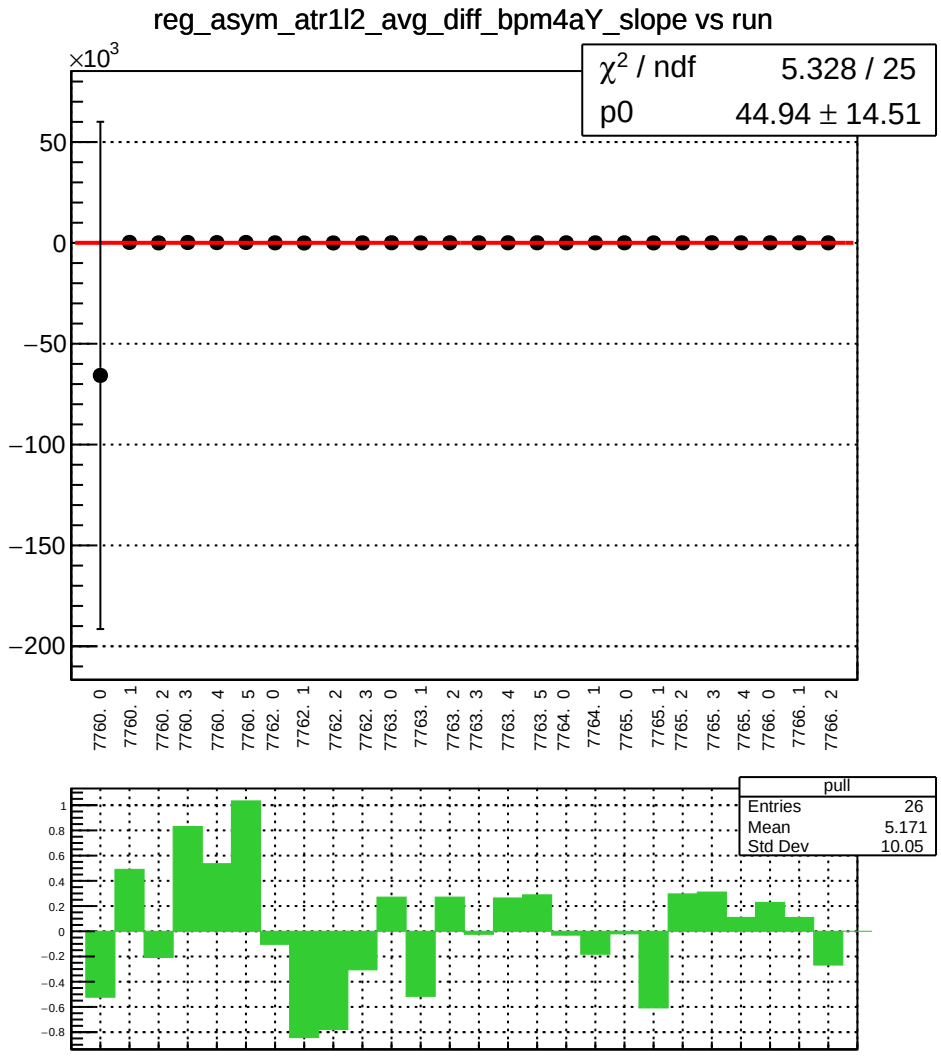

pull1D
Entries 25
Mean −0.05798
Std Dev 0.936
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

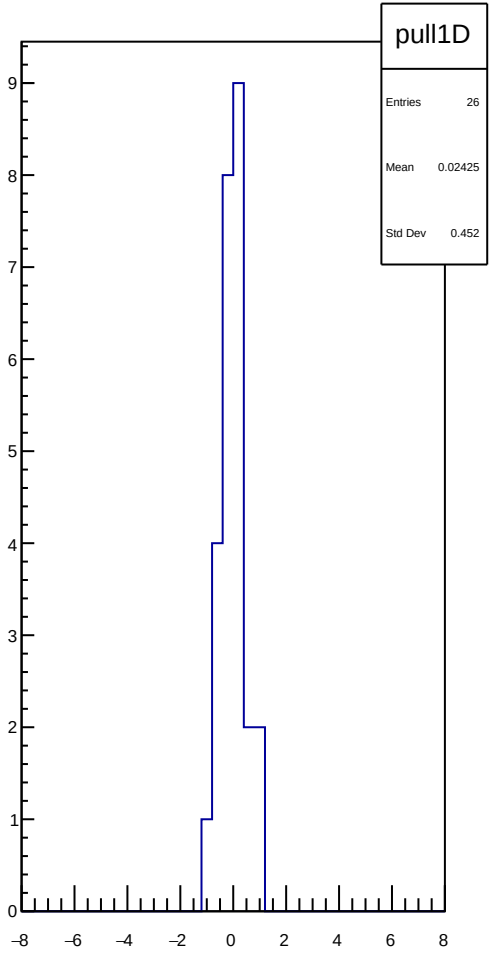

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 30.26 / 24
p0 13.98 ± 6.741
40000
30000
20000
10000
0
−10000
−20000
−30000
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 5.879
Std Dev 7.98
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 25
Mean −0.01011
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

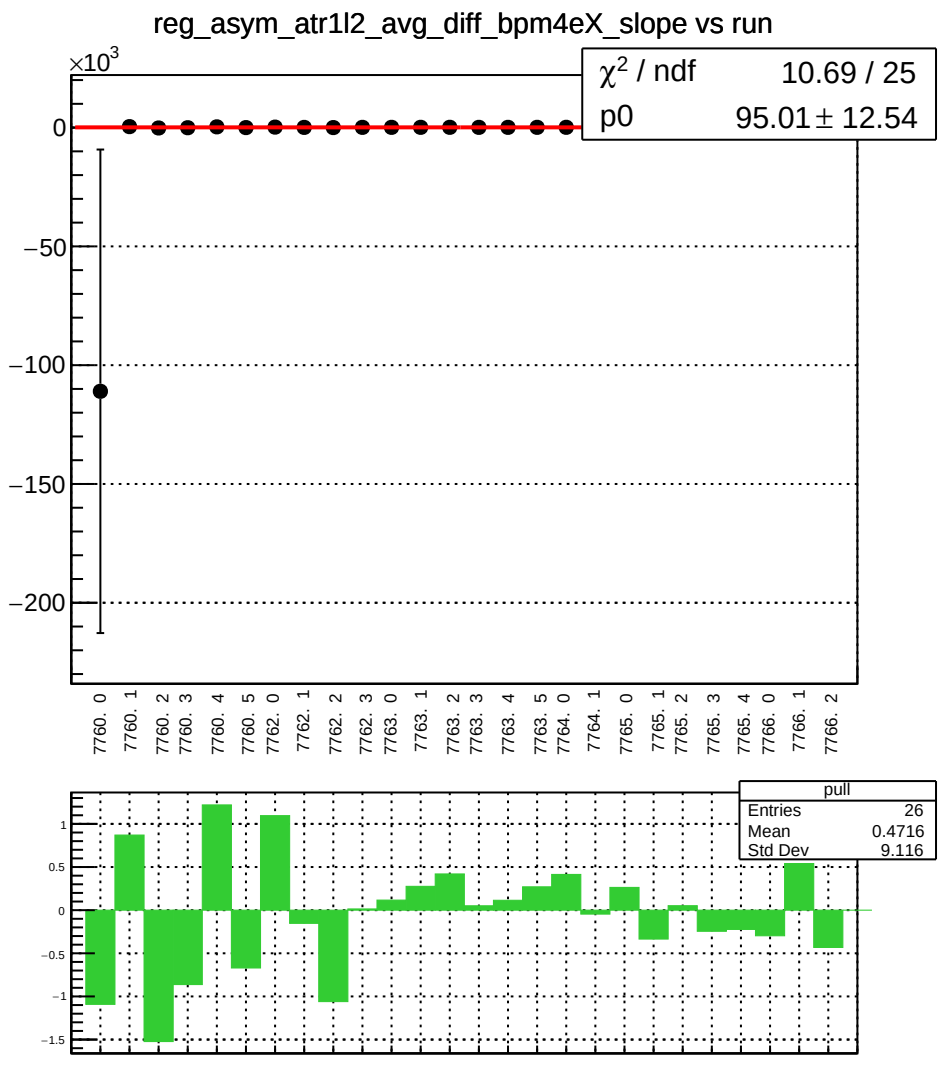

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 23.48 / 24
p0 −10.76 ± 8.813
50000
40000
30000
20000
10000
0
−10000
−20000
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 5.955
Std Dev 6.494
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 25
Mean 0.08237
Std Dev 0.9656
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

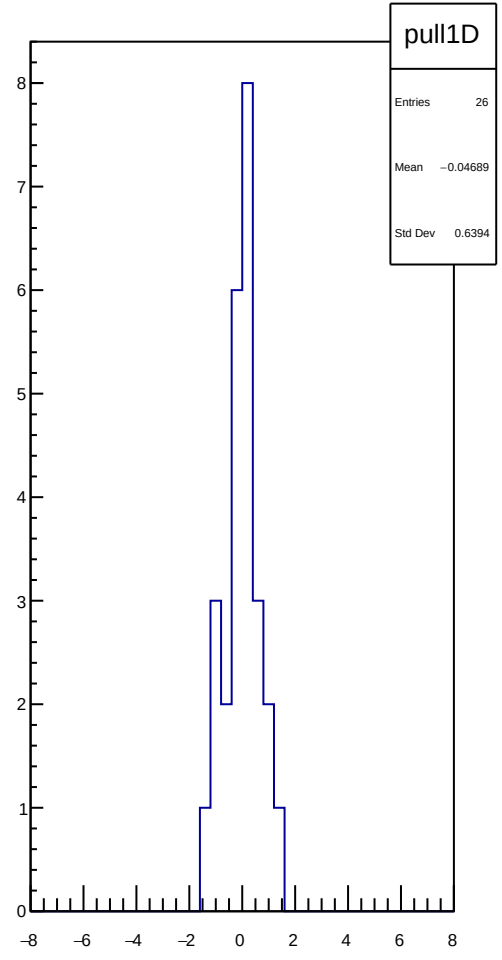

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
×10^3
χ² / ndf 112.5 / 25
p0 −2.552 ± 0.2415
300
200
100
0
−100
−200
−300
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 6.549
Std Dev 16.36
pull1D
Entries 26
Mean 0.08758
Std Dev 2.078
−8
−6
−4
−2
0
2
4
6
8

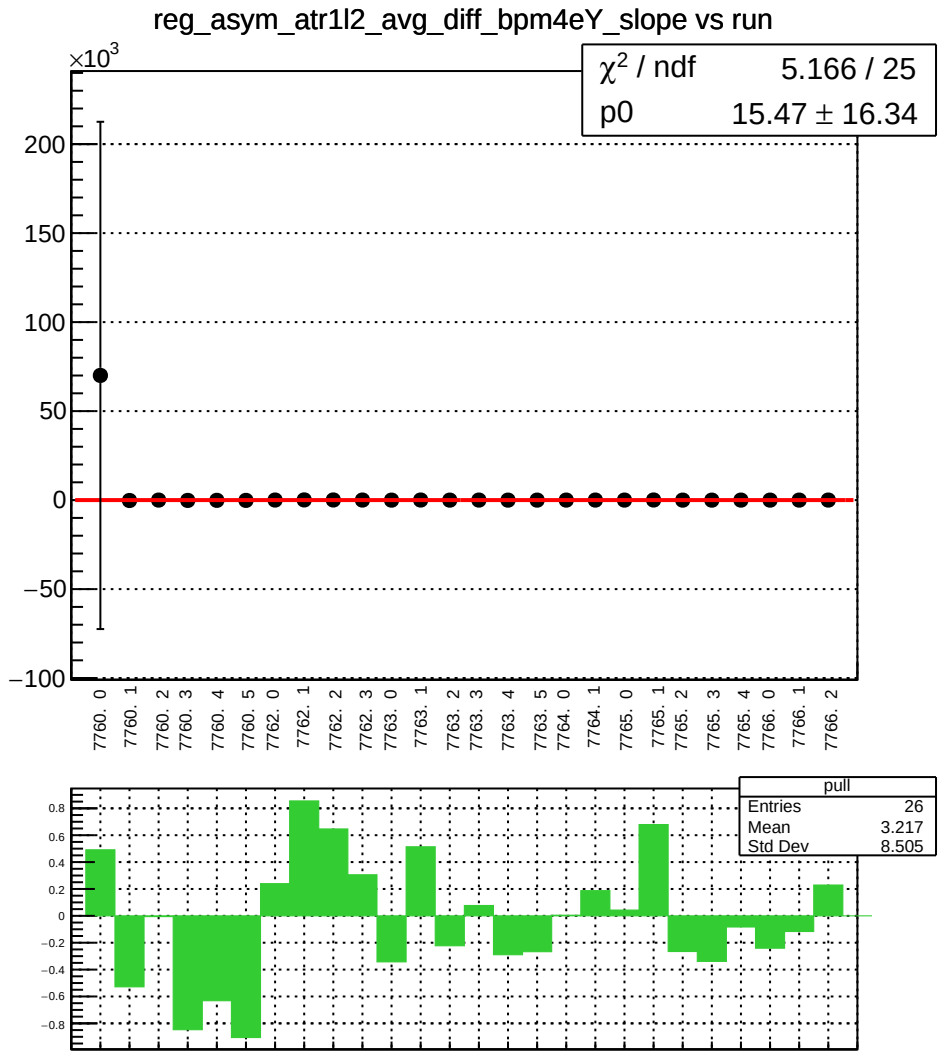

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
×10^3
χ² / ndf 10.92 / 25
p0 −136.4 ± 13.54
250
200
150
100
50
0
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 0.8094
Std Dev 10.12
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 26
Mean 0.04226
Std Dev 0.6466
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

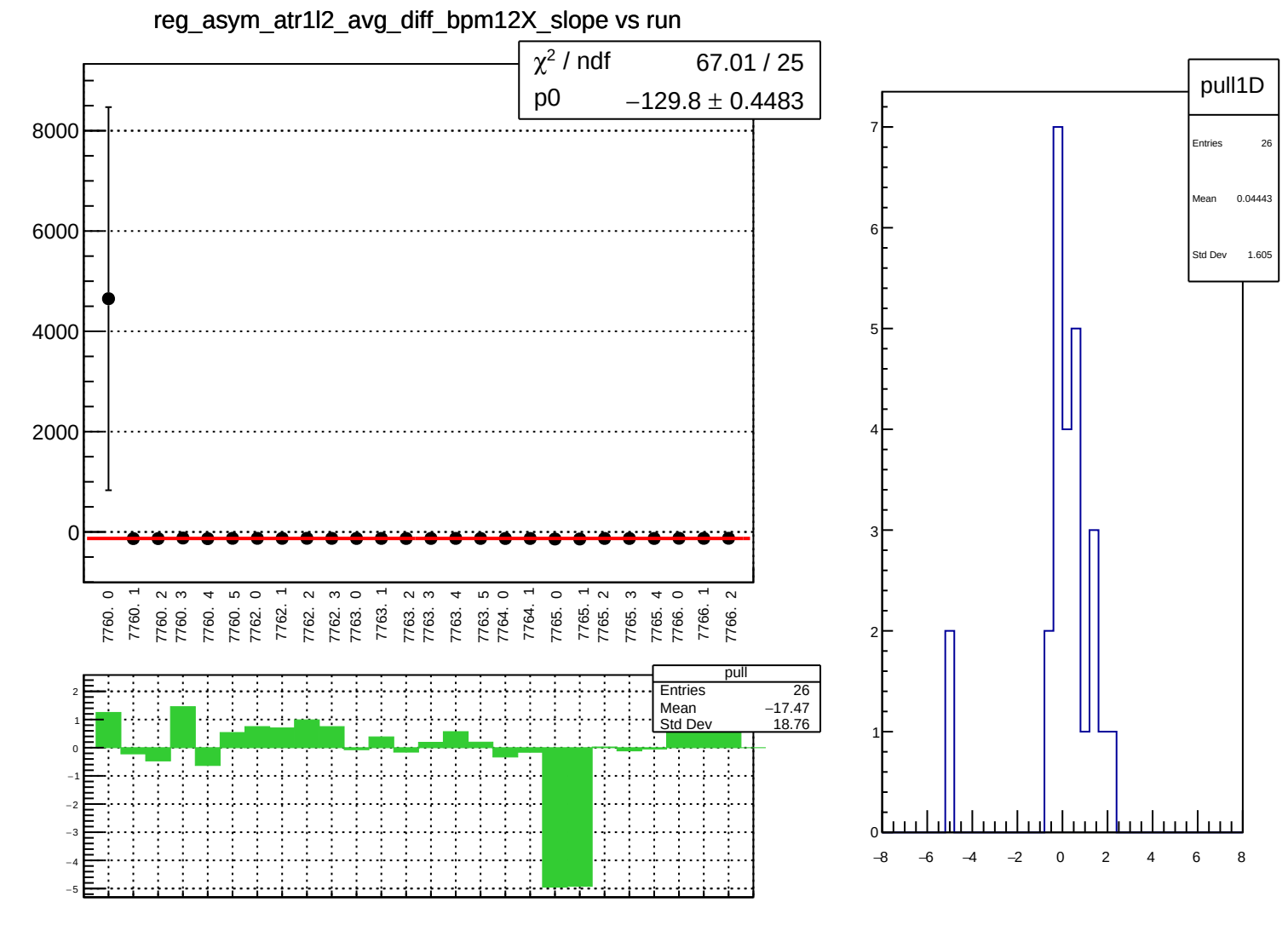

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
×10^3
χ² / ndf 5.328 / 25
p0 44.94 ± 14.51
50
0
−50
−100
−150
−200
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 5.171
Std Dev 10.05
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

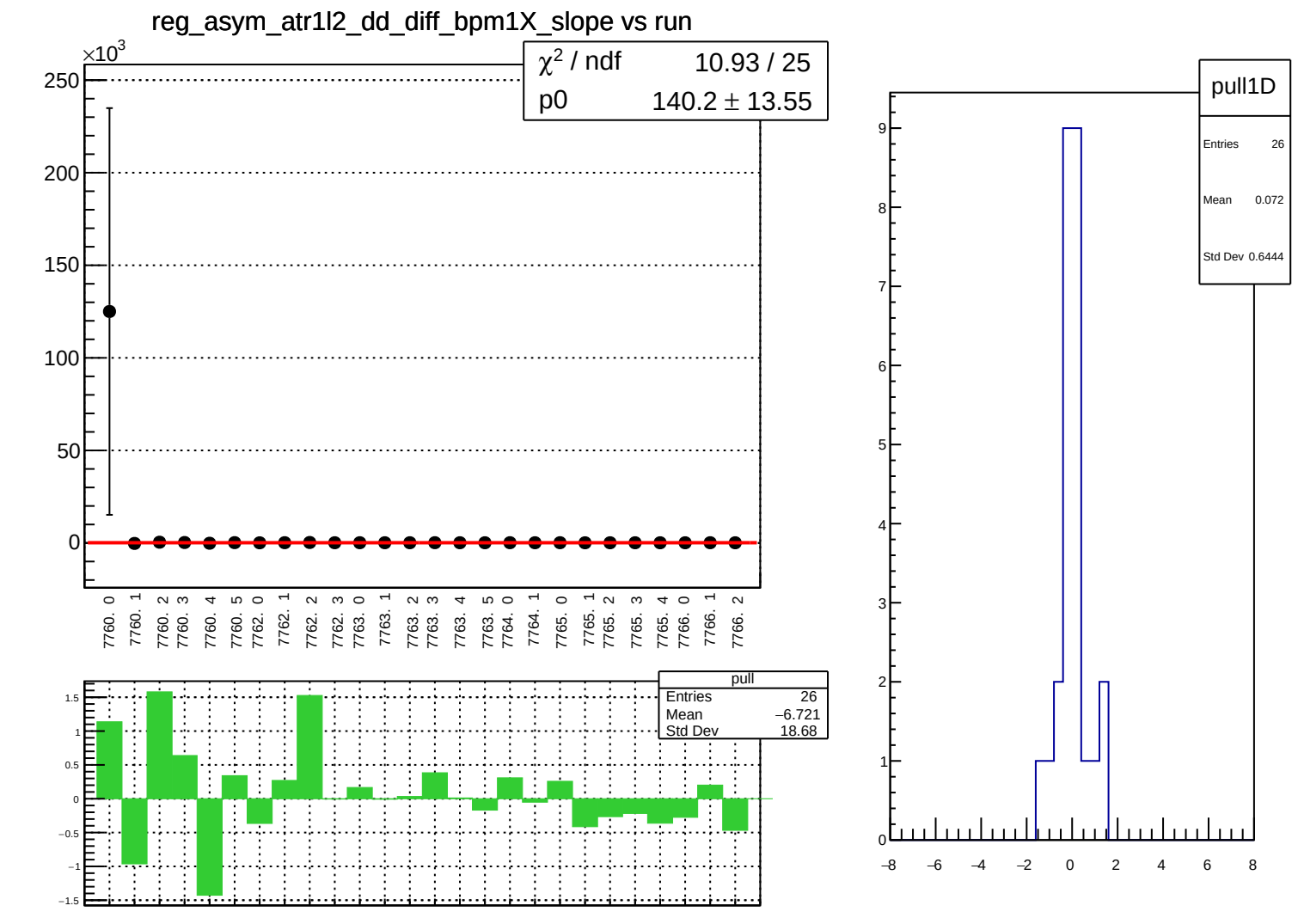

pull1D
Entries 26
Mean 0.02425
Std Dev 0.452
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

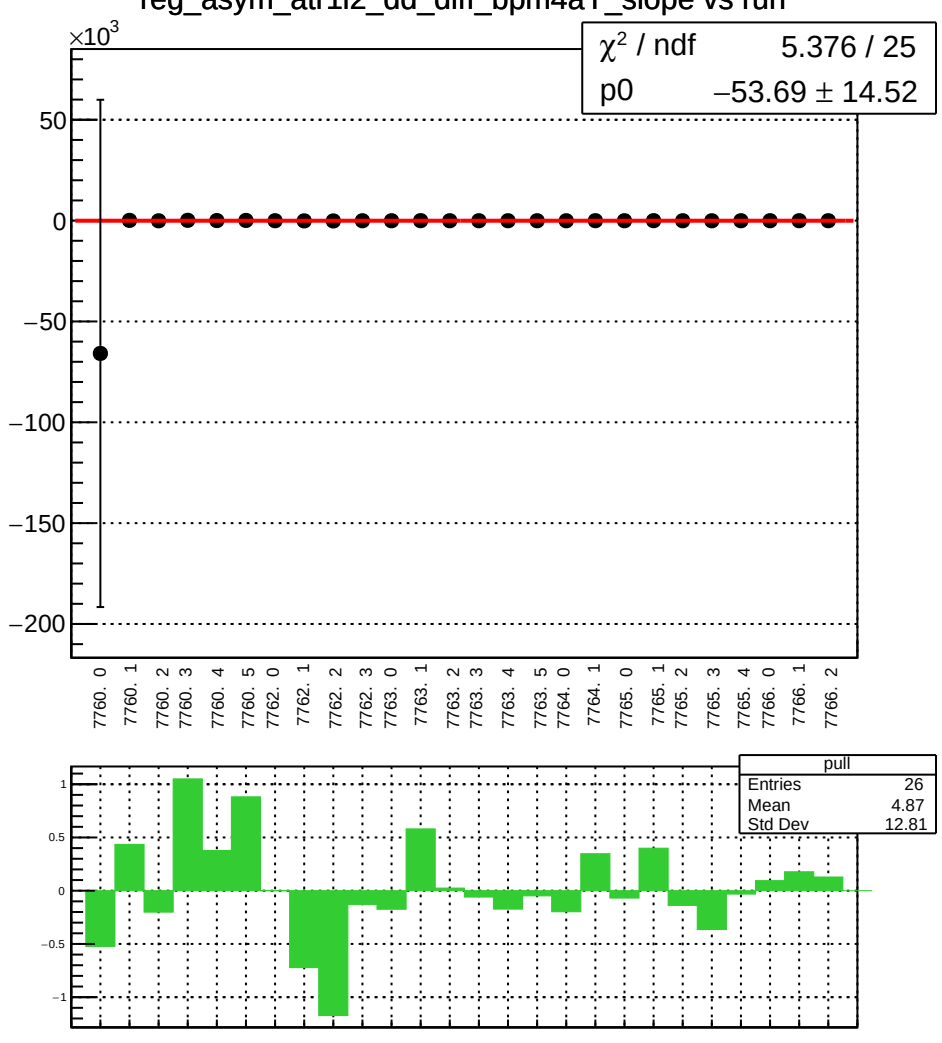

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 10.69 / 25
p0 95.01 ± 12.54
×10³
0
−50
−100
−150
−200
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 0.4716
Std Dev 9.116
1
0.5
0
−0.5
−1
−1.5

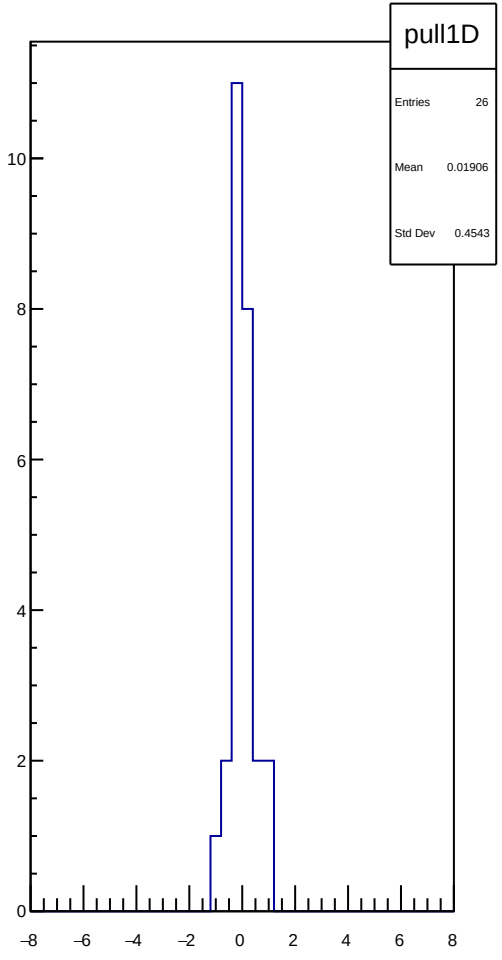

pull1D
Entries 26
Mean −0.04689
Std Dev 0.6394
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

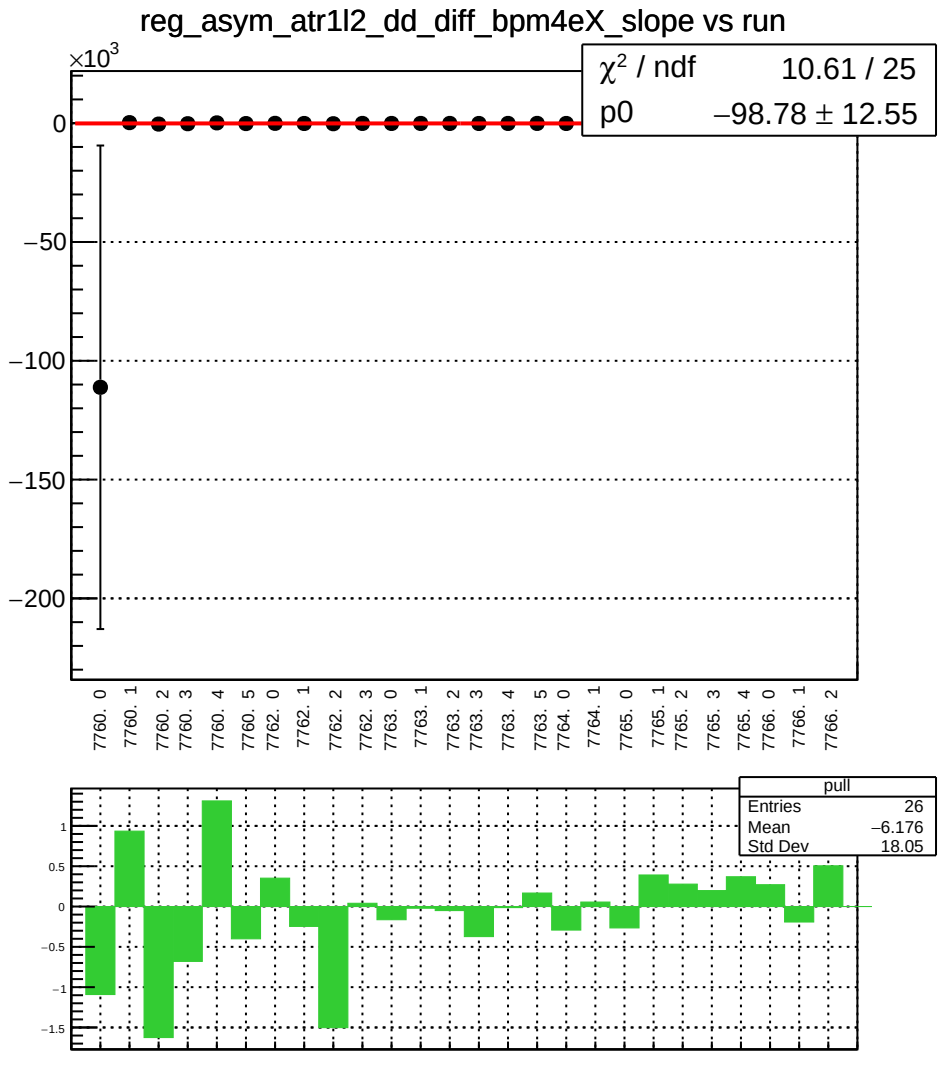

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
×10^3
χ² / ndf 5.166 / 25
p0 15.47 ± 16.34
200
150
100
50
0
−50
−100
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 3.217
Std Dev 8.505
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 26
Mean −0.03124
Std Dev 0.4447
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

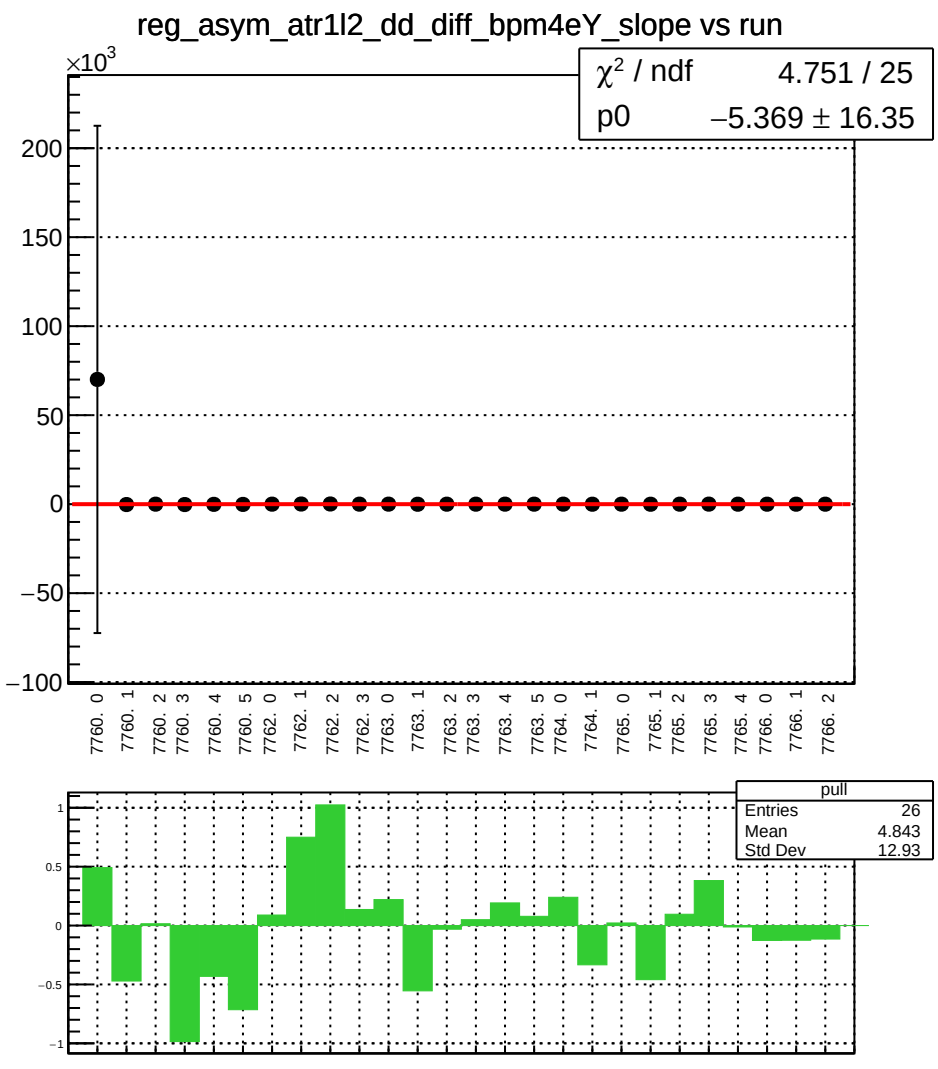

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 67.01 / 25
p0 −129.8 ± 0.4483
8000
6000
4000
2000
0
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −17.47
Std Dev 18.76
pull1D
Entries 26
Mean 0.04443
Std Dev 1.605

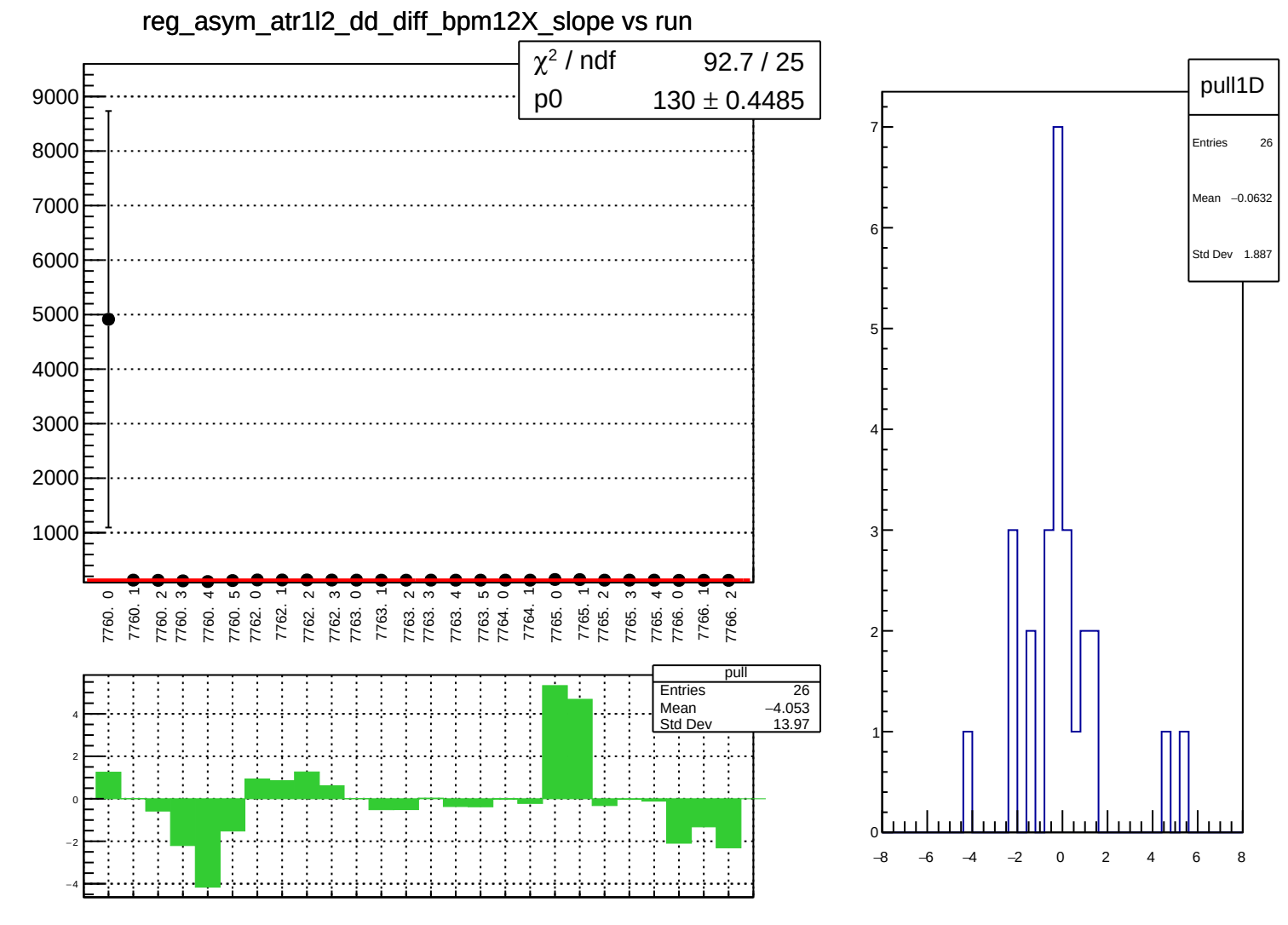

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
×10^3
χ² / ndf 10.93 / 25
p0 140.2 ± 13.55
250
200
150
100
50
0
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −6.721
Std Dev 18.68
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 26
Mean 0.072
Std Dev 0.6444
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

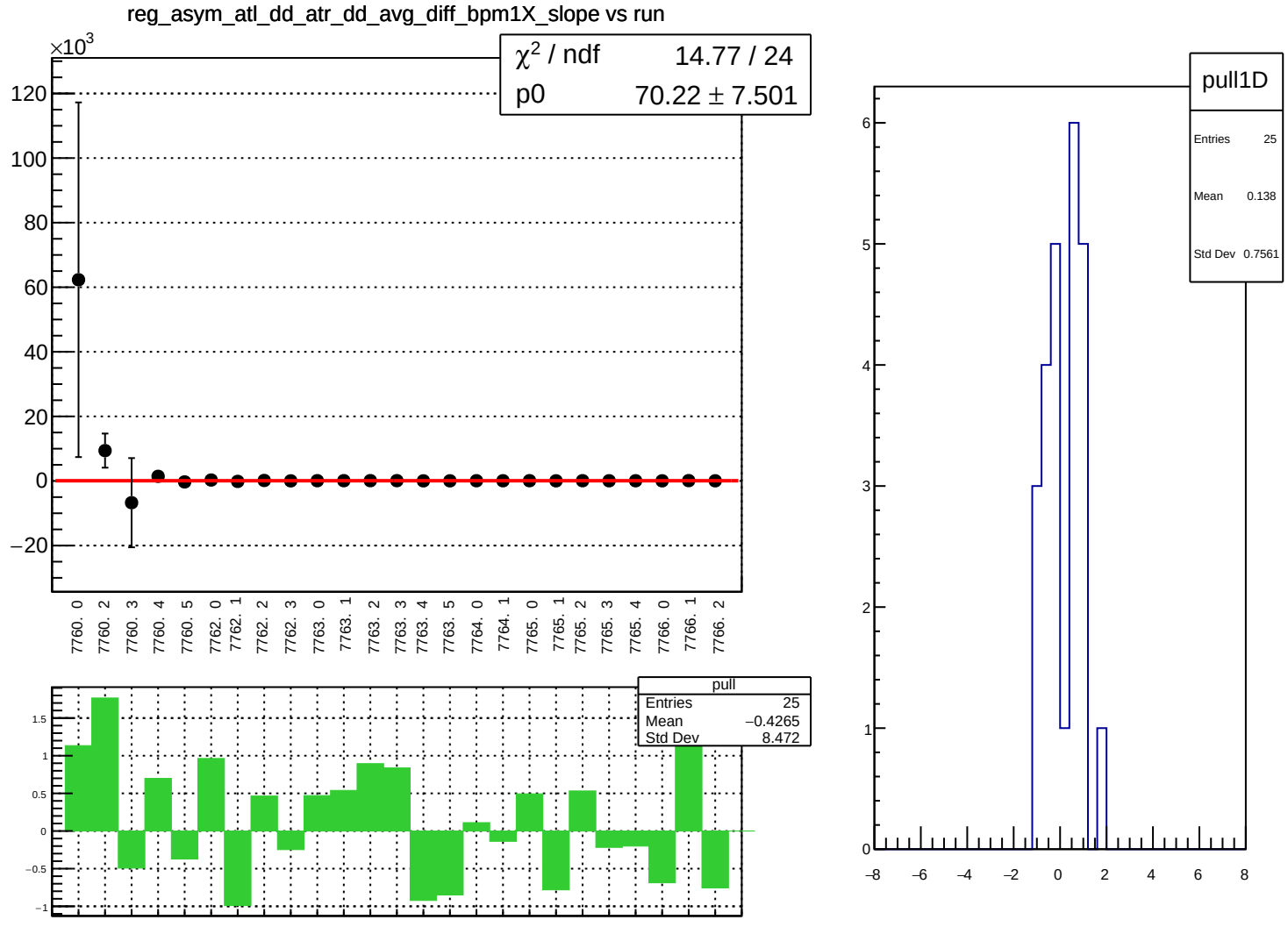

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.376 / 25
p0 −53.69 ± 14.52
×10³
50
0
−50
−100
−150
−200
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 4.87
Std Dev 12.81
1
0.5
0
−0.5
−1

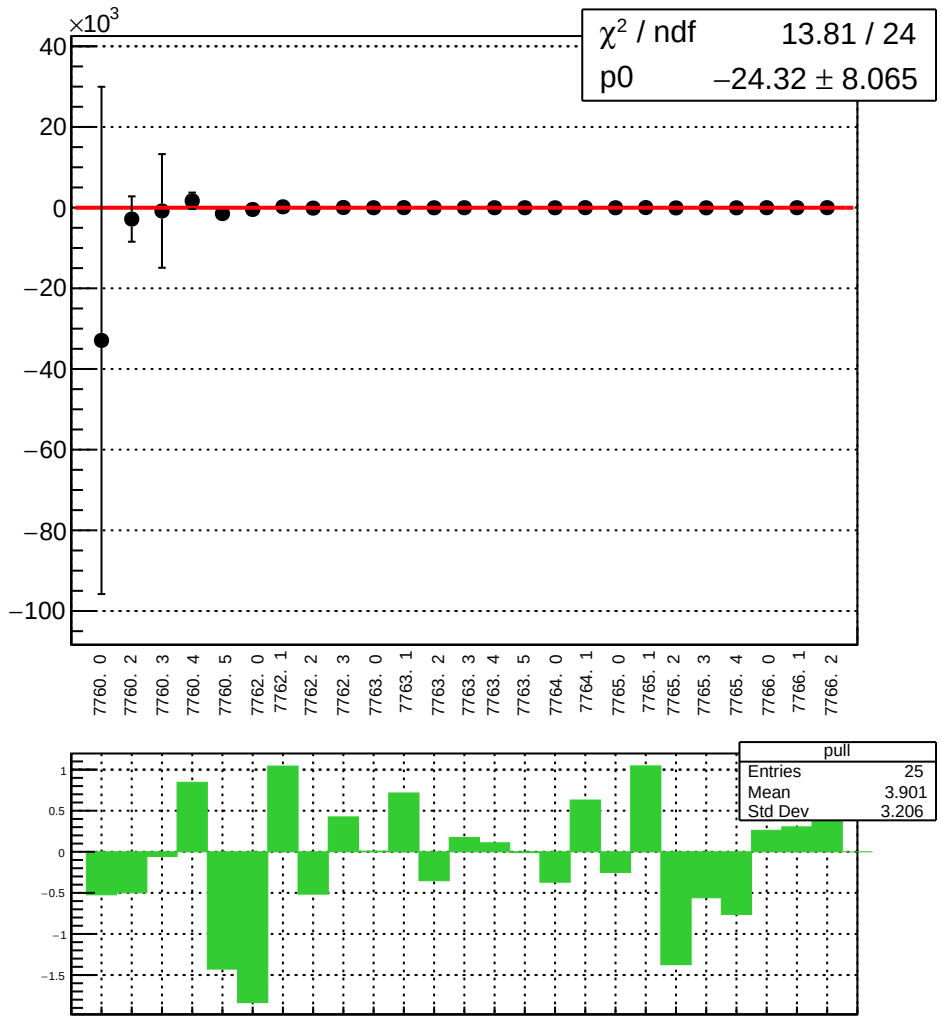

pull1D
Entries 26
Mean 0.01906
Std Dev 0.4543
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

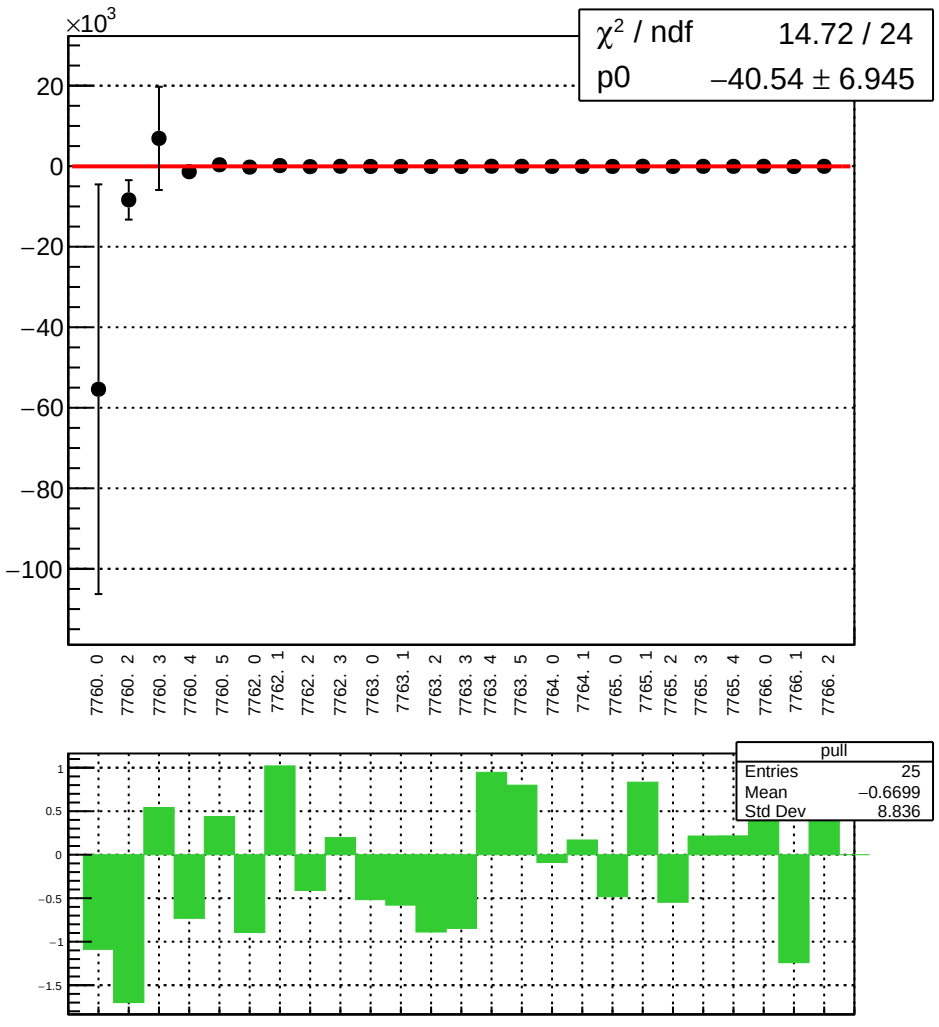

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
×10^3
χ² / ndf 10.61 / 25
p0 −98.78 ± 12.55
0
−50
−100
−150
−200
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −6.176
Std Dev 18.05
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 26
Mean −0.07859
Std Dev 0.6341
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

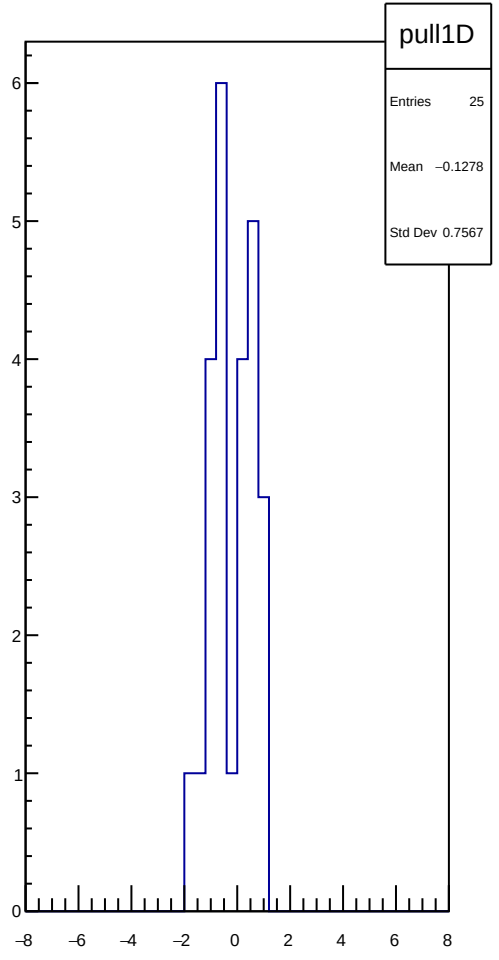

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.751 / 25
p0 −5.369 ± 16.35
×10³
200
150
100
50
0
−50
−100
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 4.843
Std Dev 12.93
1
0.5
0
−0.5
−1
pull1D
Entries 26
Mean −0.02188
Std Dev 0.4269
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

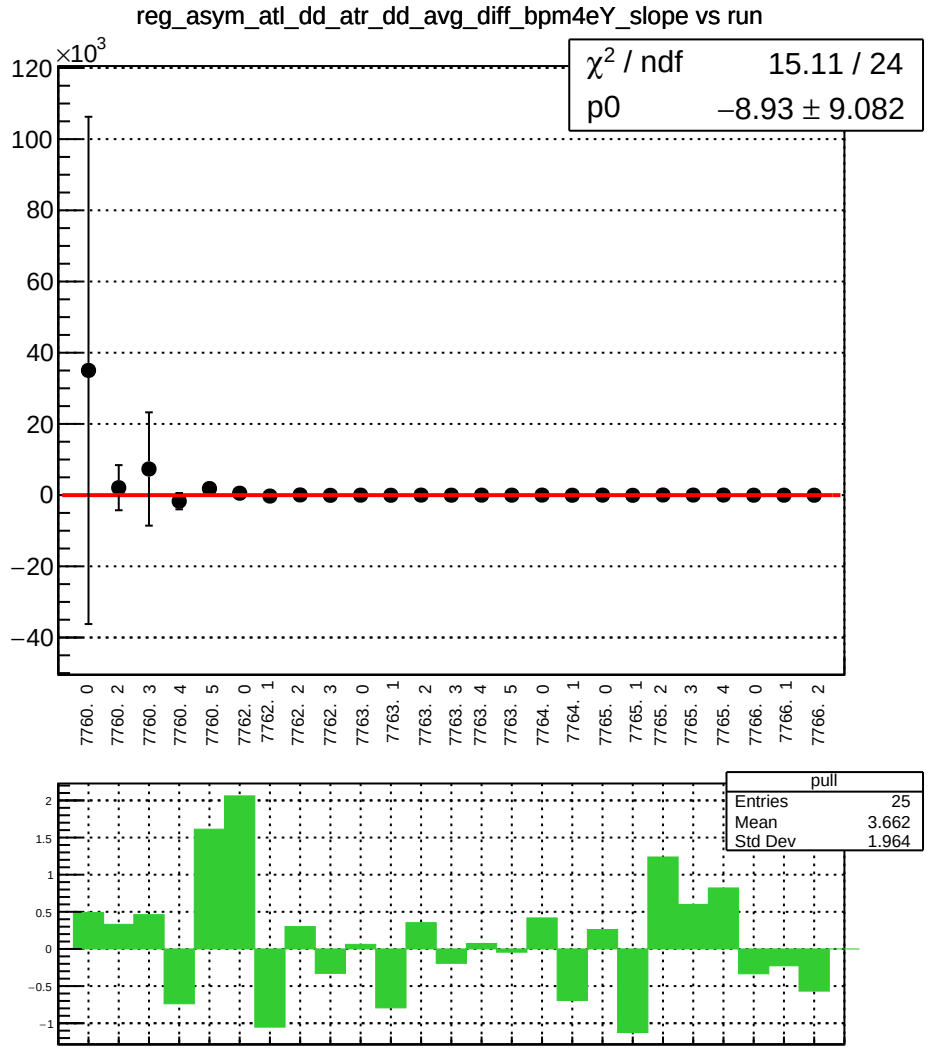

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 92.7 / 25
p0 130 ± 0.4485
9000
8000
7000
6000
5000
4000
3000
2000
1000
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −4.053
Std Dev 13.97
4
2
0
−2
−4
pull1D
Entries 26
Mean −0.0632
Std Dev 1.887
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

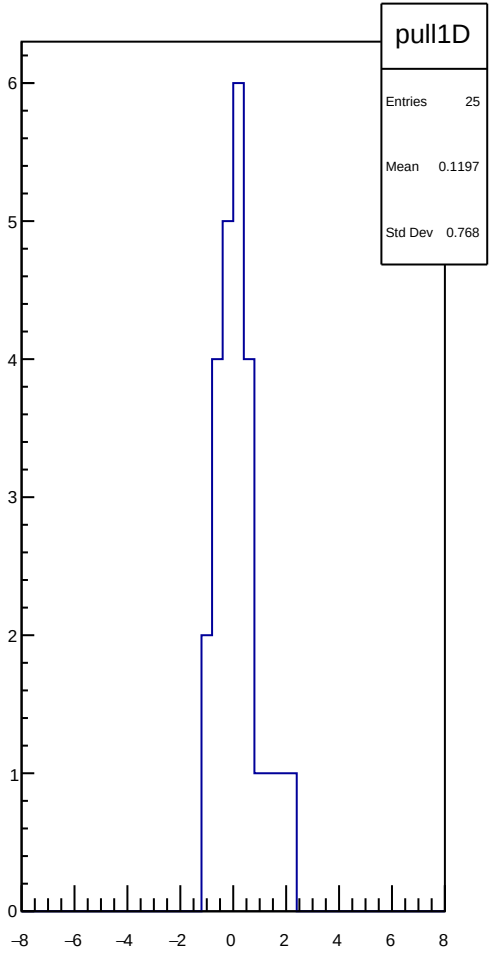

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
×10^3
χ^2 / ndf 14.77 / 24
p0 70.22 ± 7.501
120
100
80
60
40
20
0
−20
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −0.4265
Std Dev 8.472
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 25
Mean 0.138
Std Dev 0.7561
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

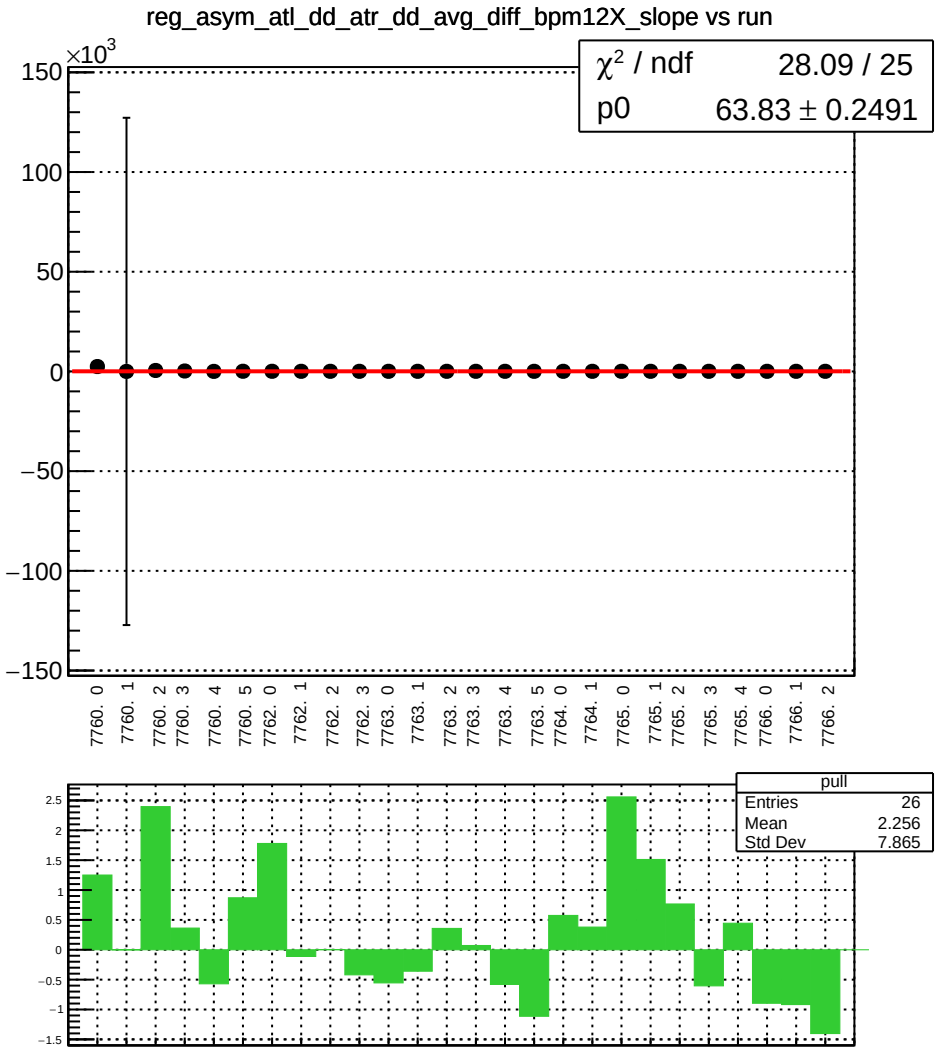

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
×10^3
χ² / ndf 13.81 / 24
p0 −24.32 ± 8.065
pull
Entries 25
Mean 3.901
Std Dev 3.206
pull1D
Entries 25
Mean −0.09649
Std Dev 0.7368

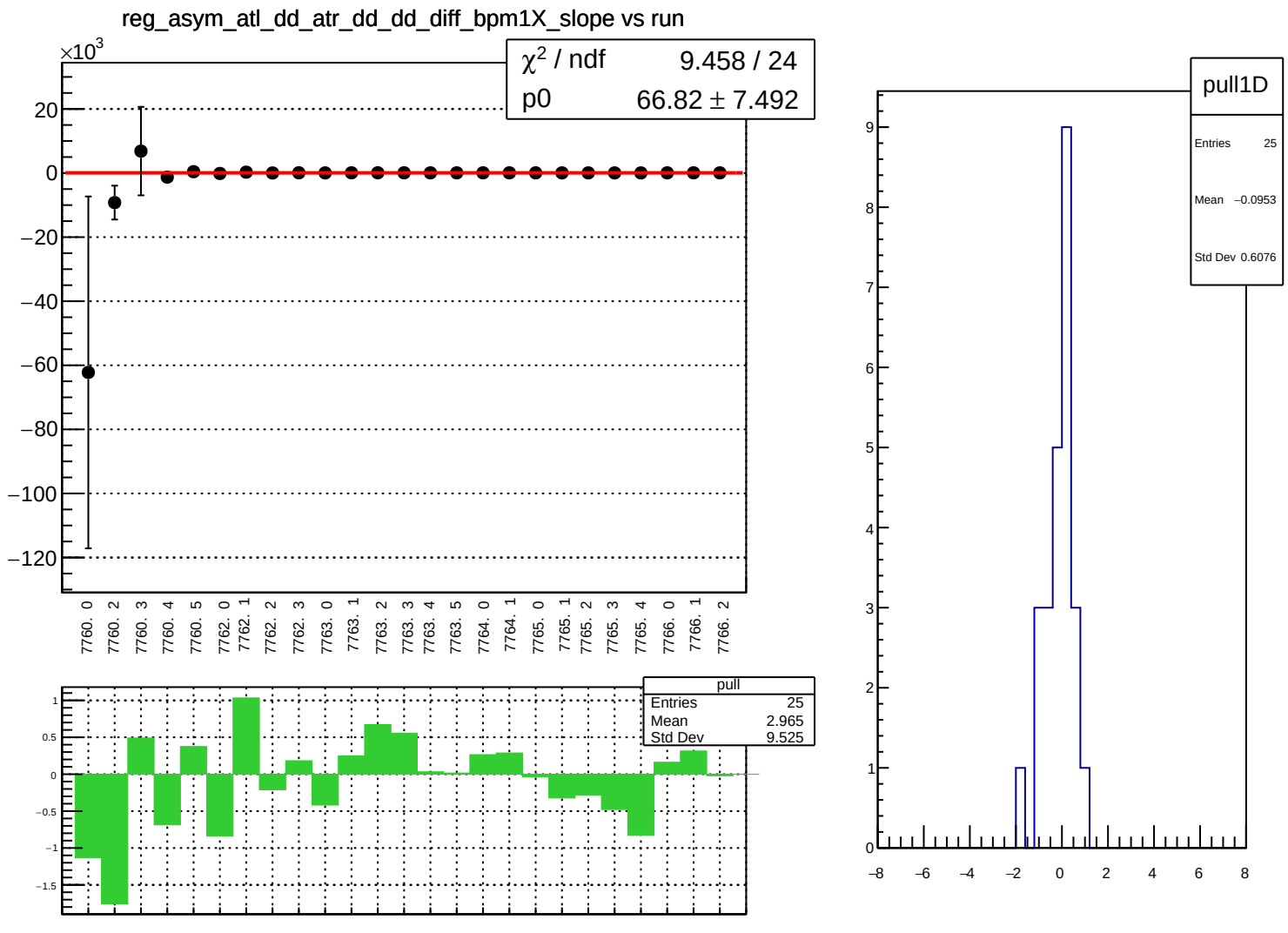

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
×10^3
χ² / ndf 14.72 / 24
p0 −40.54 ± 6.945
20
0
−20
−40
−60
−80
−100
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −0.6699
Std Dev 8.836
1
0.5
0
−0.5
−1
−1.5

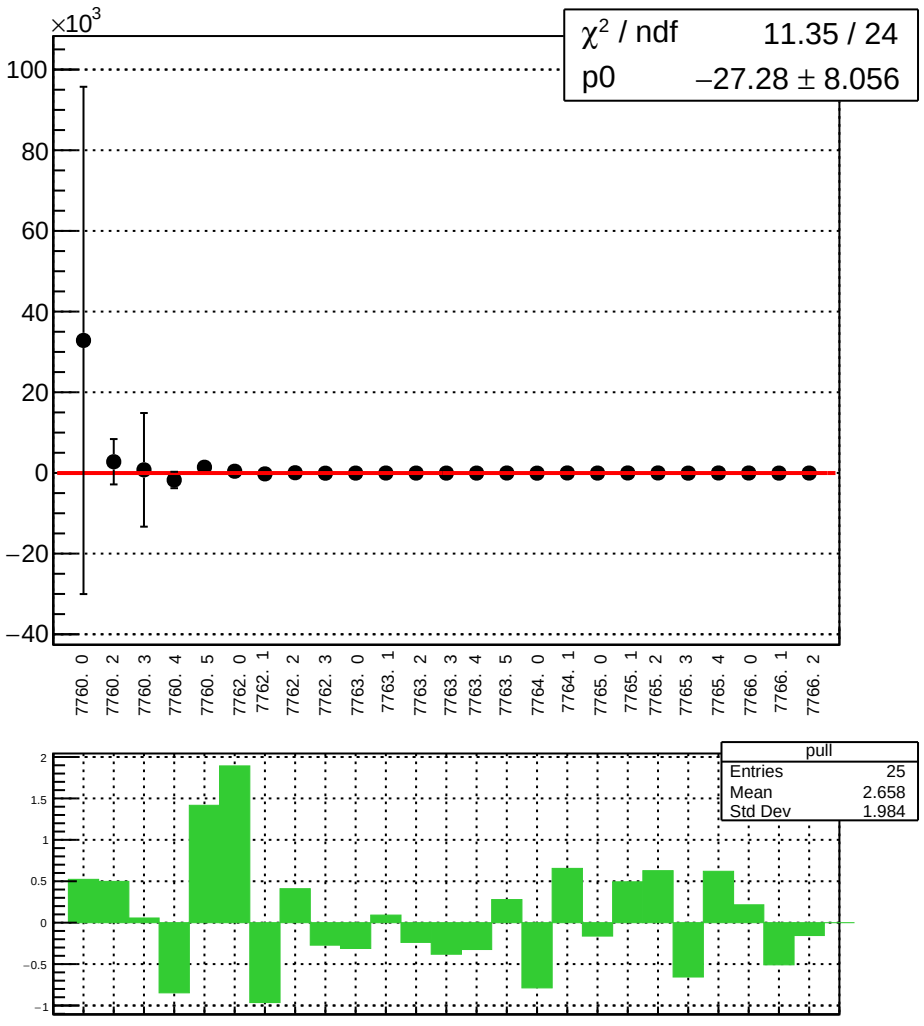

pull1D
Entries 25
Mean −0.1278
Std Dev 0.7567
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

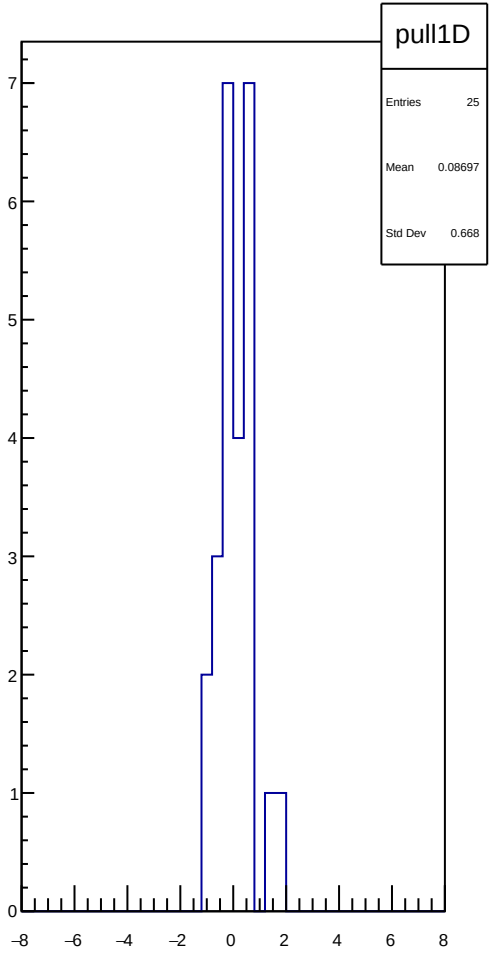

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 15.11 / 24
p0 −8.93 ± 9.082
×10³
pull
Entries 25
Mean 3.662
Std Dev 1.964

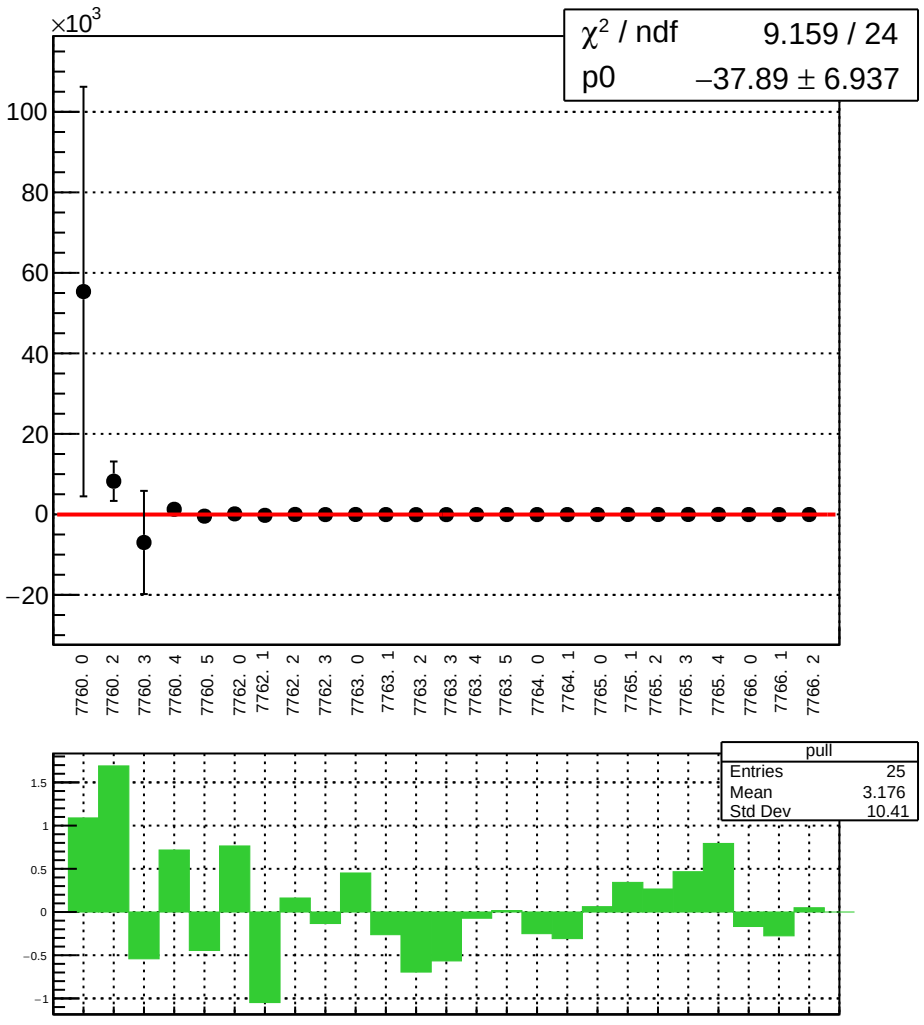

pull1D
Entries 25
Mean 0.1197
Std Dev 0.768

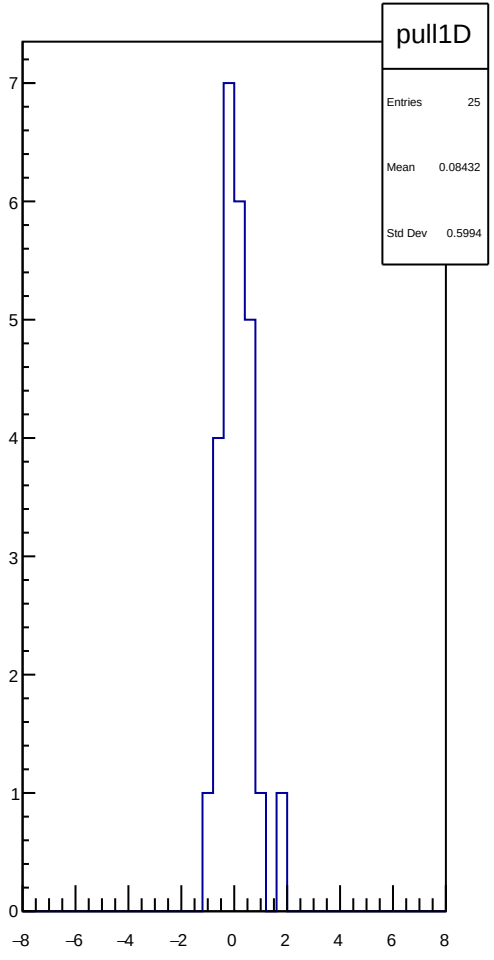

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
×10^3
χ² / ndf 28.09 / 25
p0 63.83 ± 0.2491
150
100
50
0
−50
−100
−150
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 2.256
Std Dev 7.865
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 26
Mean 0.2231
Std Dev 1.015
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

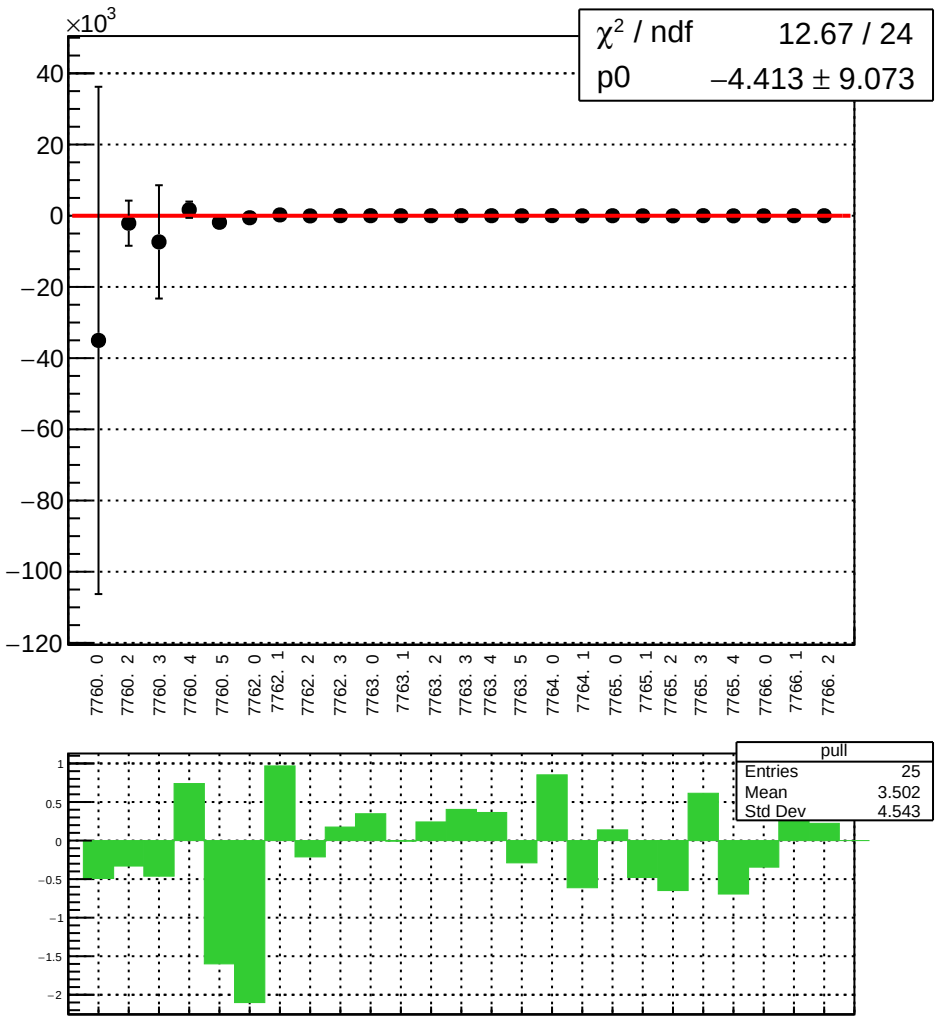

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
×10^3
χ^2 / ndf 9.458 / 24
p0 66.82 ± 7.492
20
0
−20
−40
−60
−80
−100
−120
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 2.965
Std Dev 9.525
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 25
Mean −0.0953
Std Dev 0.6076
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

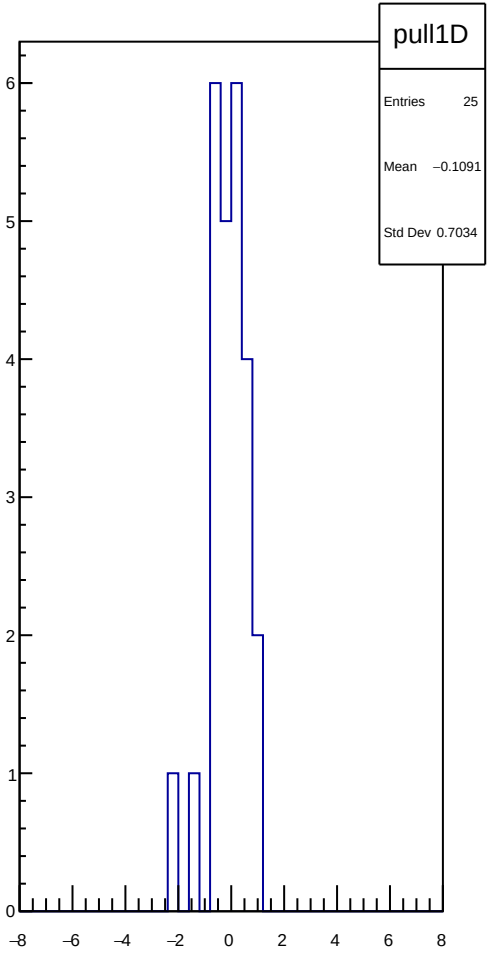

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
×10^3
χ² / ndf 11.35 / 24
p0 −27.28 ± 8.056
100
80
60
40
20
0
−20
−40
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 2.658
Std Dev 1.984
2
1.5
1
0.5
0
−0.5
−1

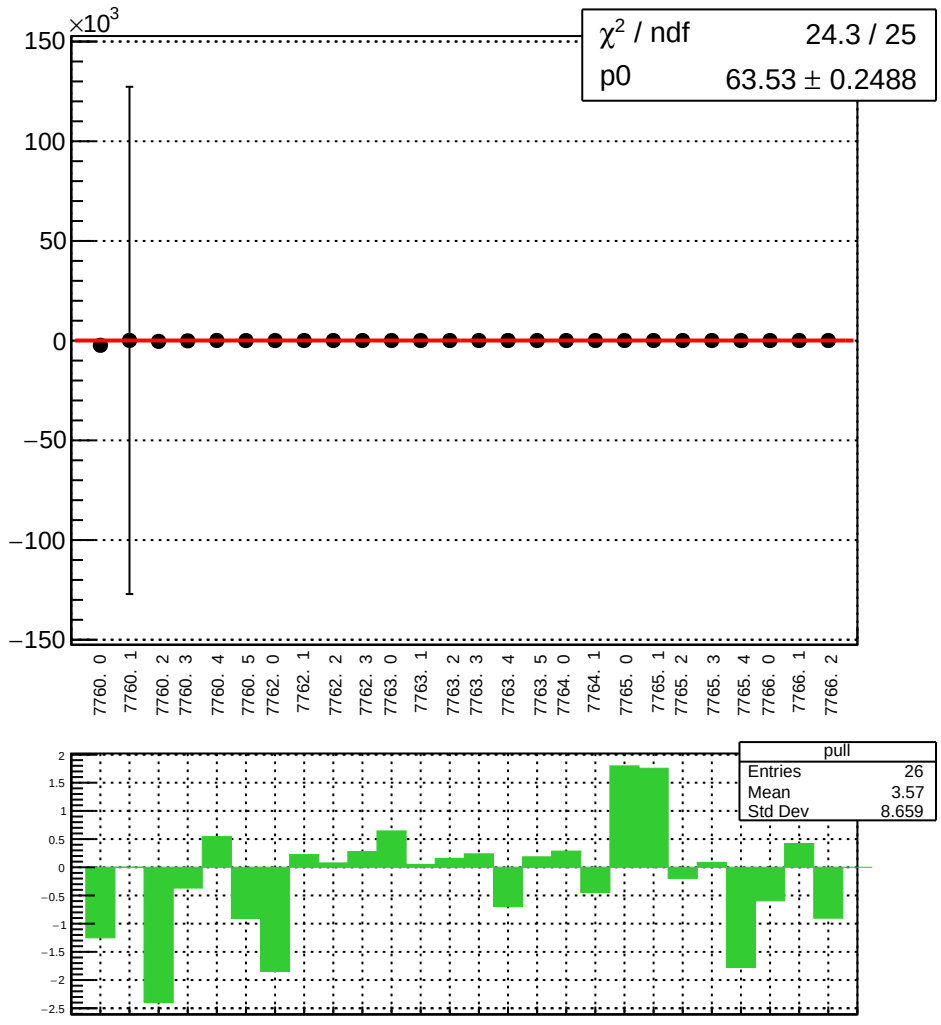

pull1D
Entries 25
Mean 0.08697
Std Dev 0.668
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

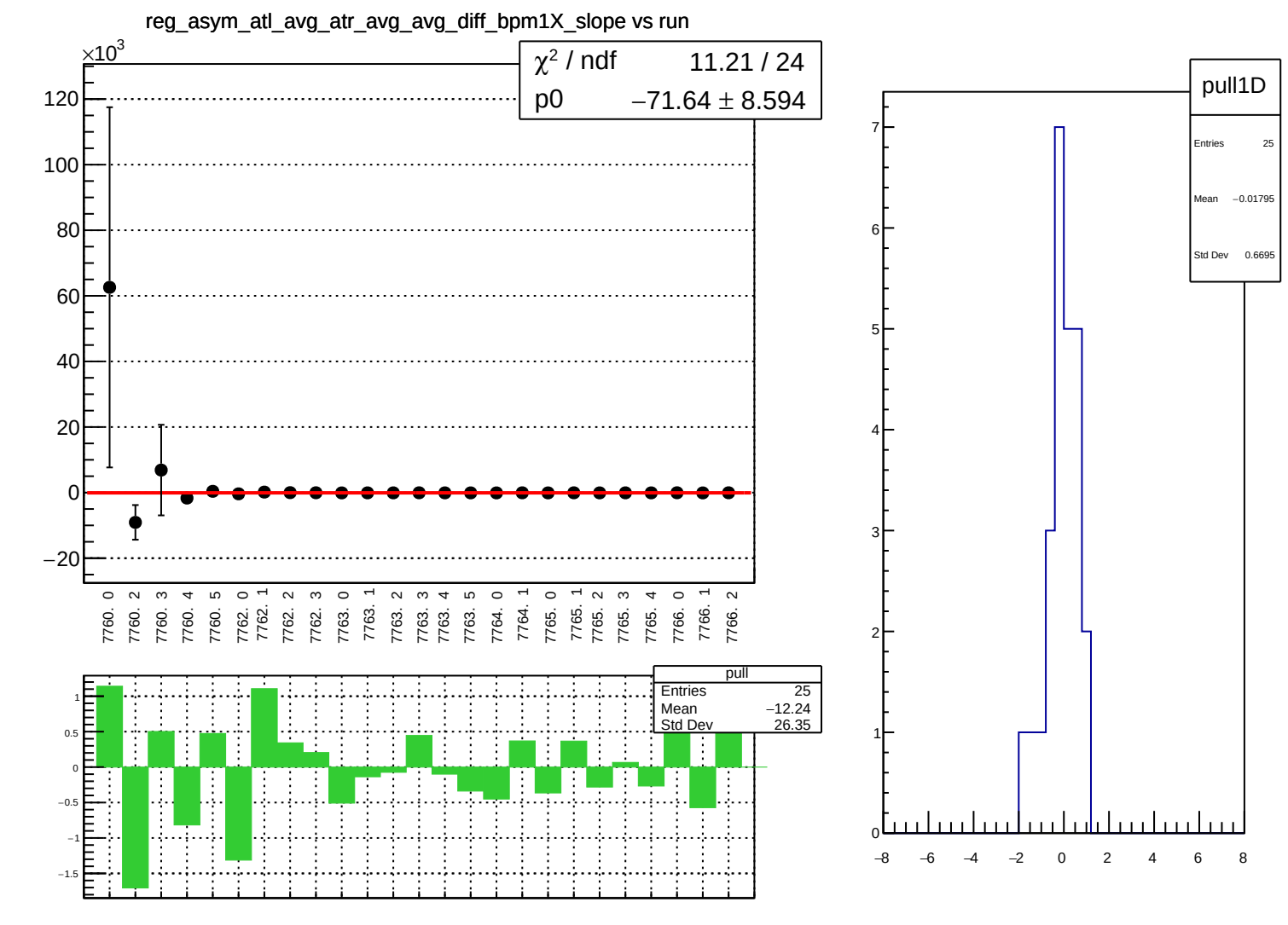

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
×10^3
χ² / ndf 9.159 / 24
p0 −37.89 ± 6.937
100
80
60
40
20
0
−20
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 3.176
Std Dev 10.41
1.5
1
0.5
0
−0.5
−1

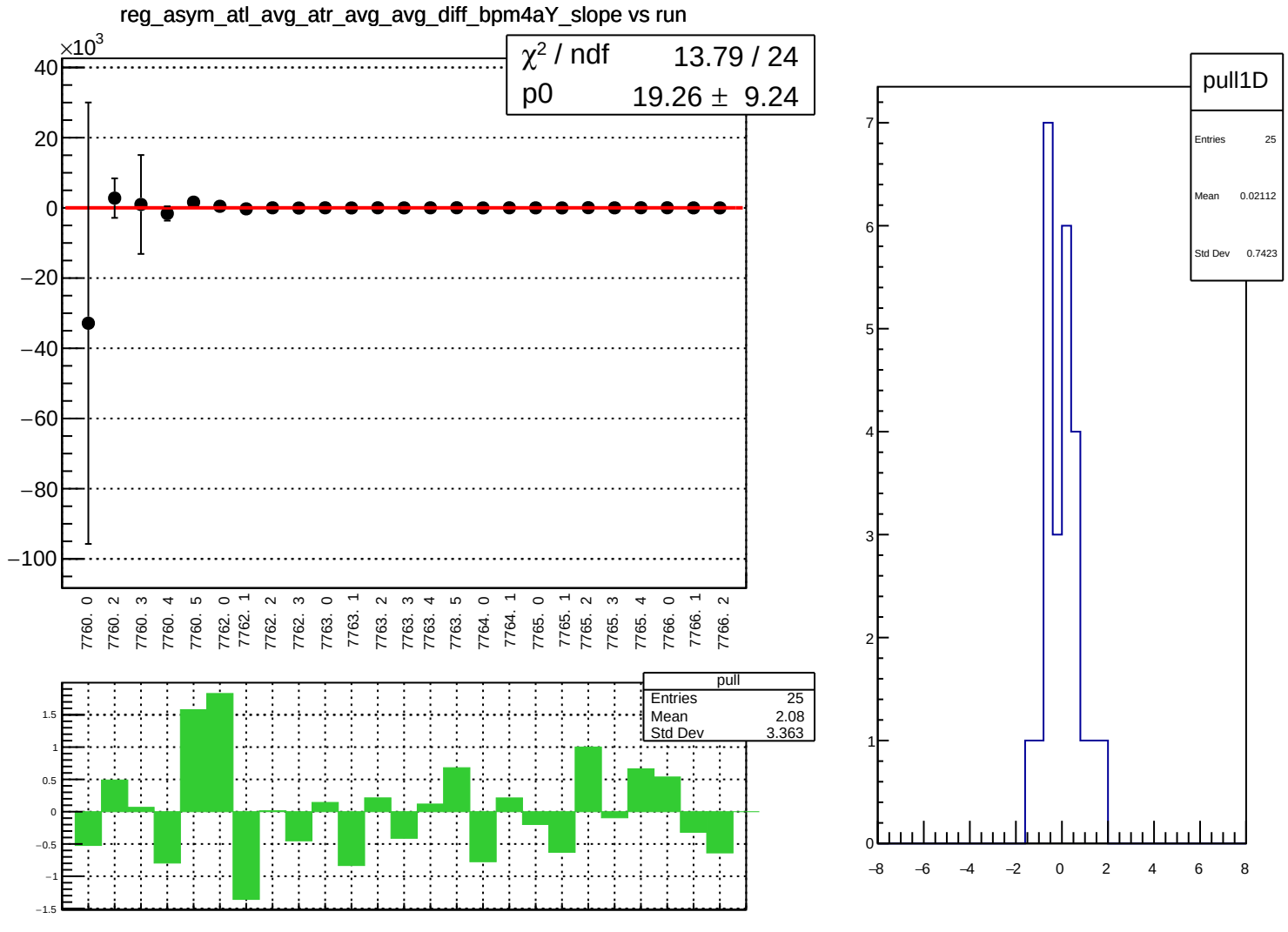

pull1D
Entries 25
Mean 0.08432
Std Dev 0.5994
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

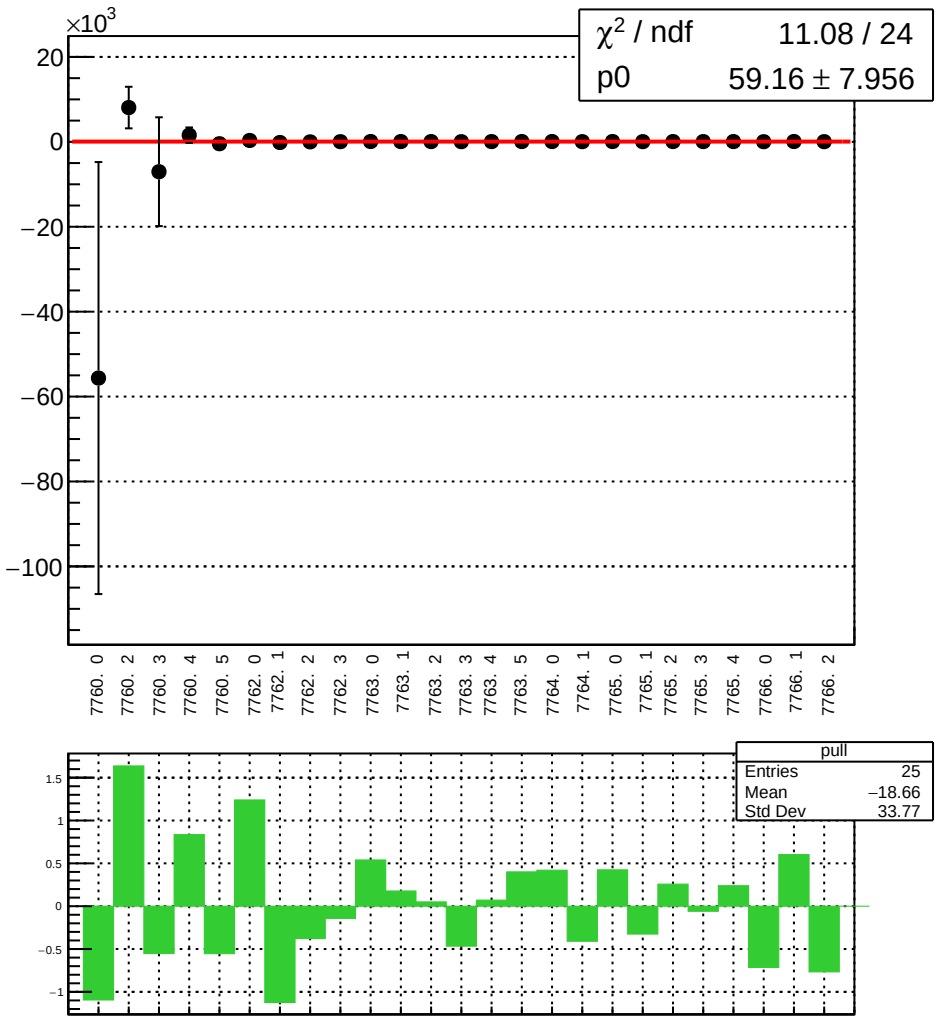

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
×10^3
χ² / ndf 12.67 / 24
p0 −4.413 ± 9.073
40
20
0
−20
−40
−60
−80
−100
−120
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 3.502
Std Dev 4.543
1
0.5
0
−0.5
−1
−1.5
−2

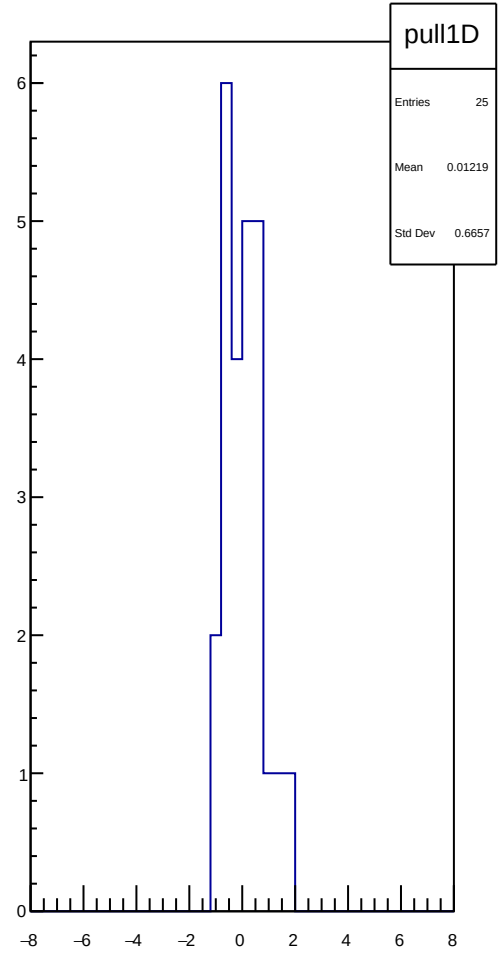

pull1D
Entries 25
Mean −0.1091
Std Dev 0.7034
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

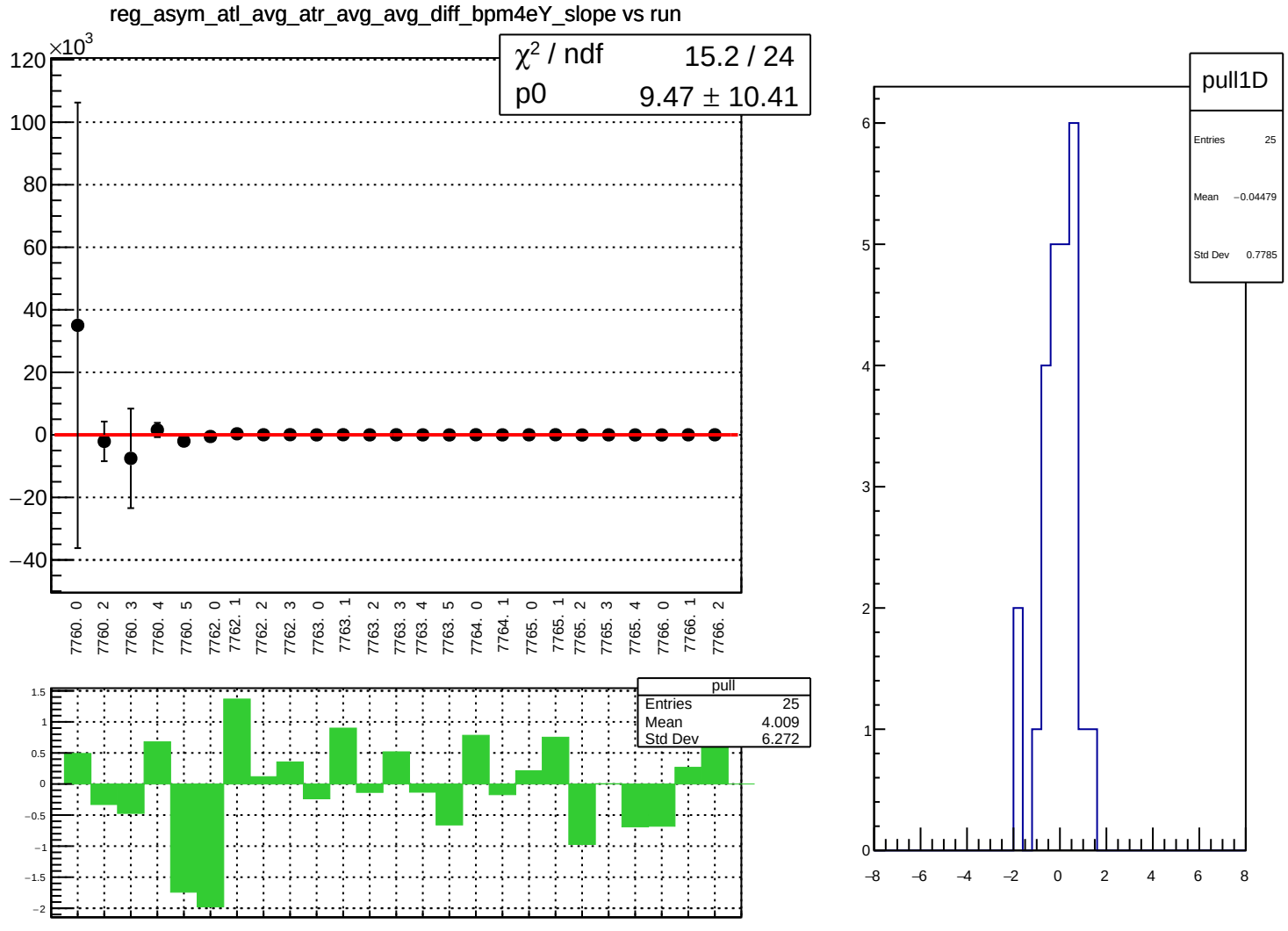

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
×10^3
χ^2 / ndf 24.3 / 25
p0 63.53 ± 0.2488
150
100
50
0
−50
−100
−150
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 3.57
Std Dev 8.659
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 26
Mean −0.1784
Std Dev 0.9501
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

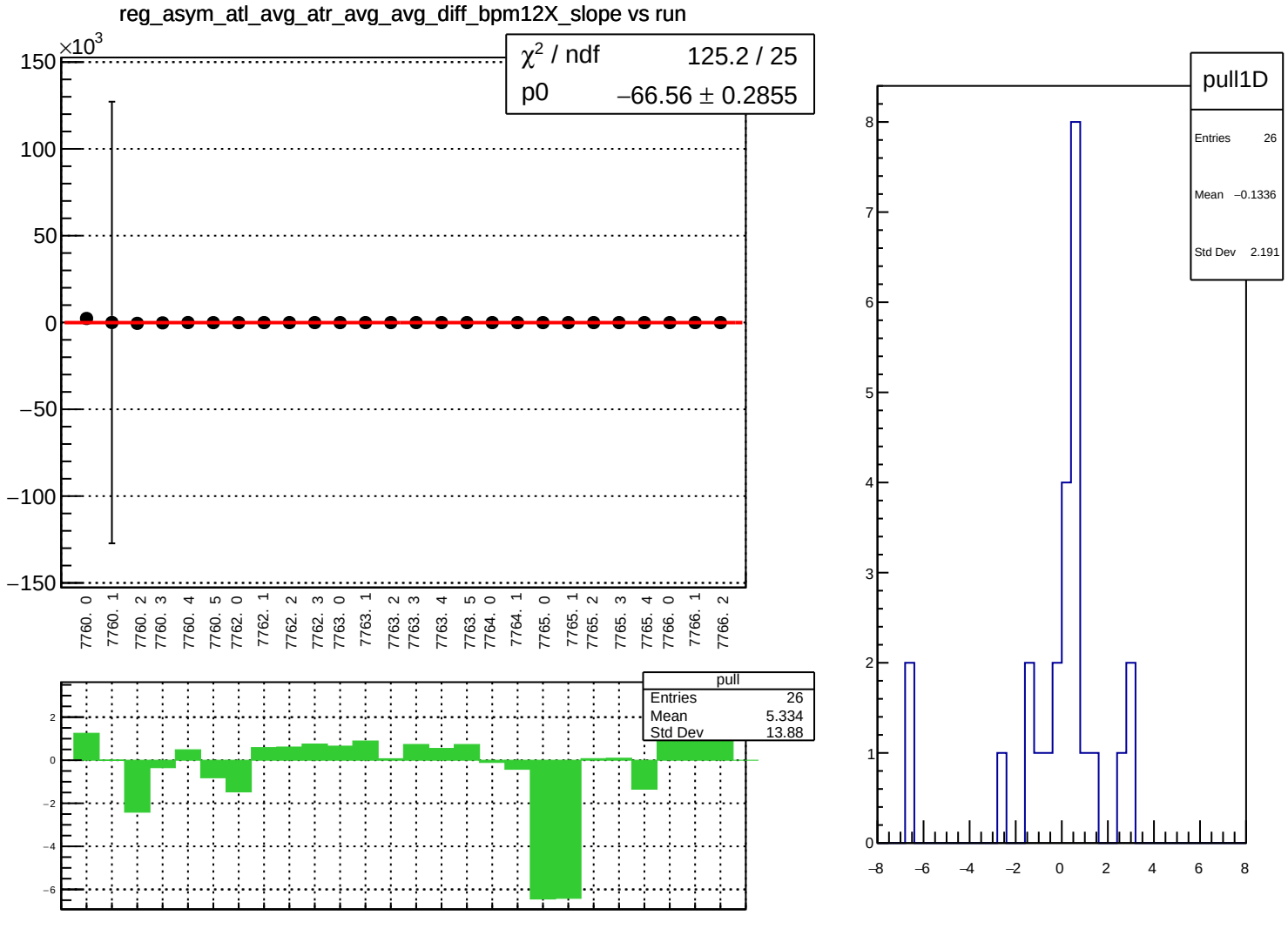

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
×10^3
χ² / ndf 11.21 / 24
p0 −71.64 ± 8.594
120
100
80
60
40
20
0
−20
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −12.24
Std Dev 26.35
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 25
Mean −0.01795
Std Dev 0.6695
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

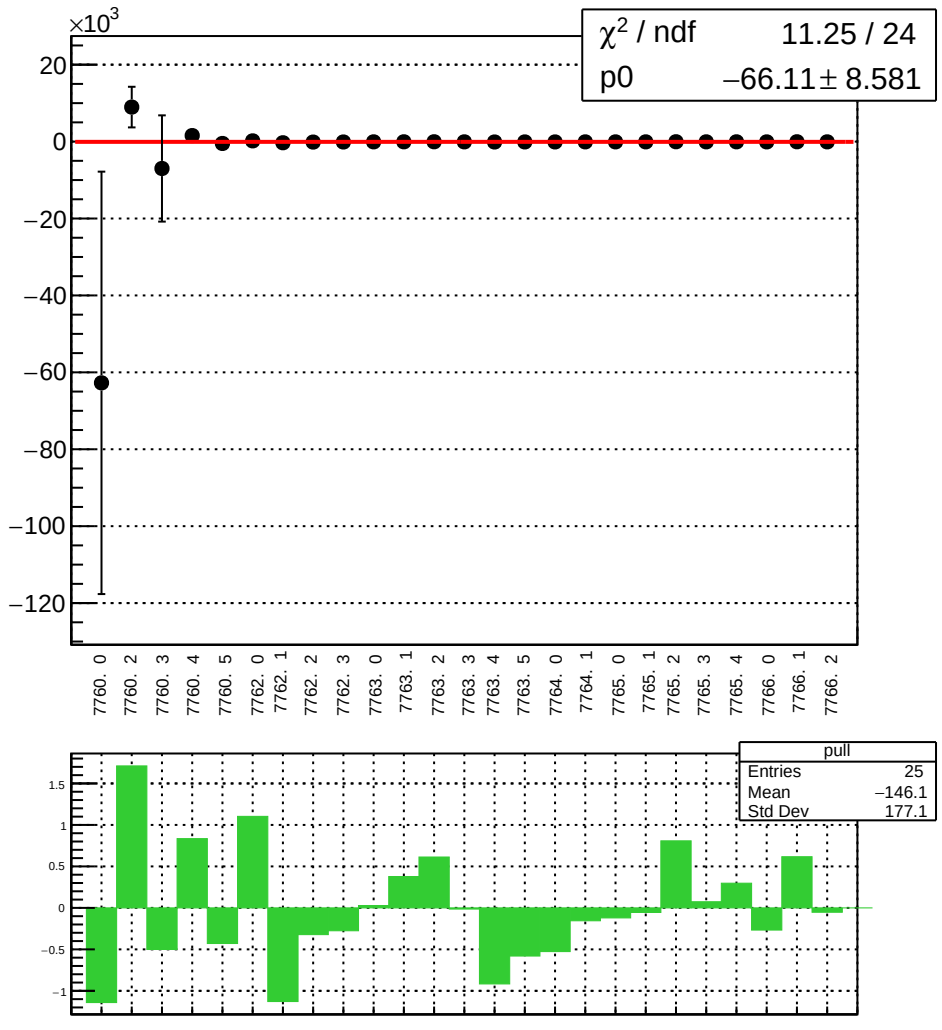

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
×10^3
χ^2 / ndf 13.79 / 24
p0 19.26 ± 9.24
40
20
0
−20
−40
−60
−80
−100
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 2.08
Std Dev 3.363
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 25
Mean 0.02112
Std Dev 0.7423
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

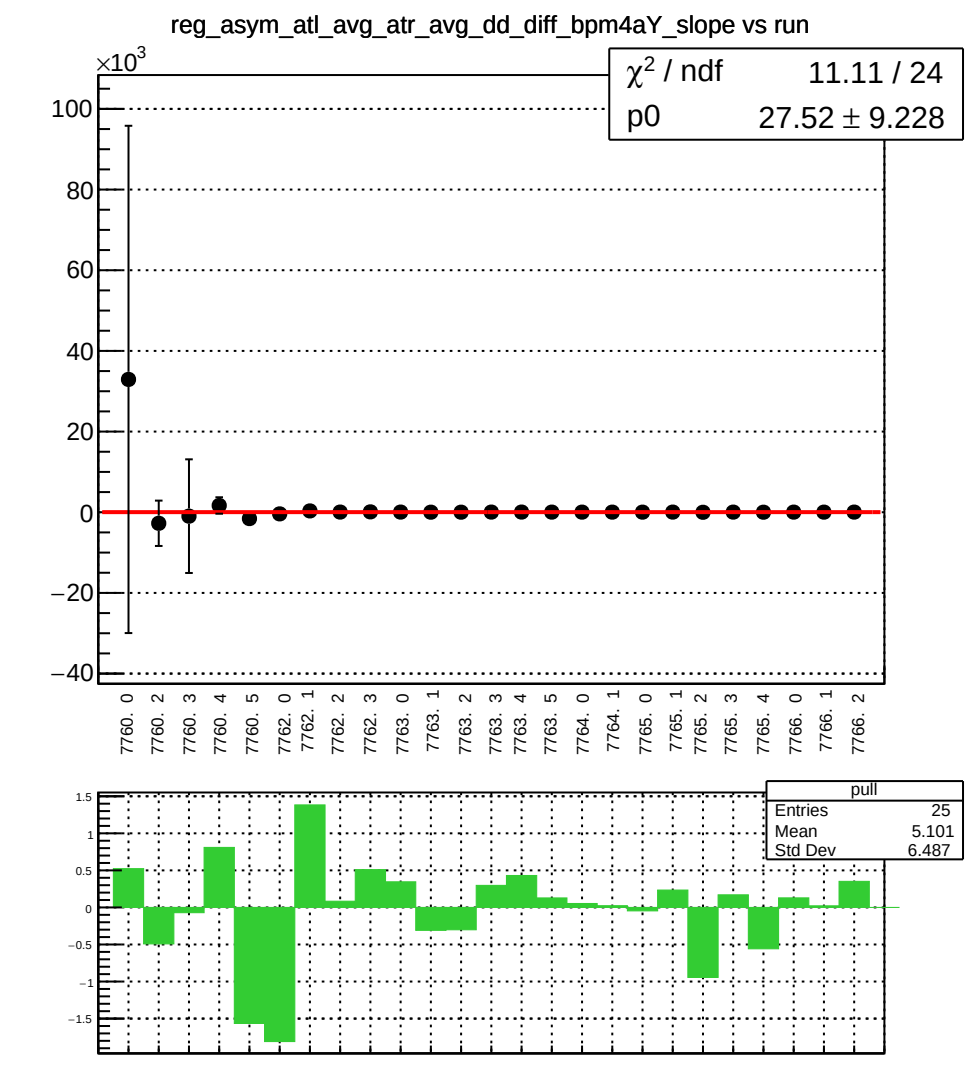

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
×10^3
χ² / ndf 11.08 / 24
p0 59.16 ± 7.956
20
0
−20
−40
−60
−80
−100
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −18.66
Std Dev 33.77
1.5
1
0.5
0
−0.5
−1

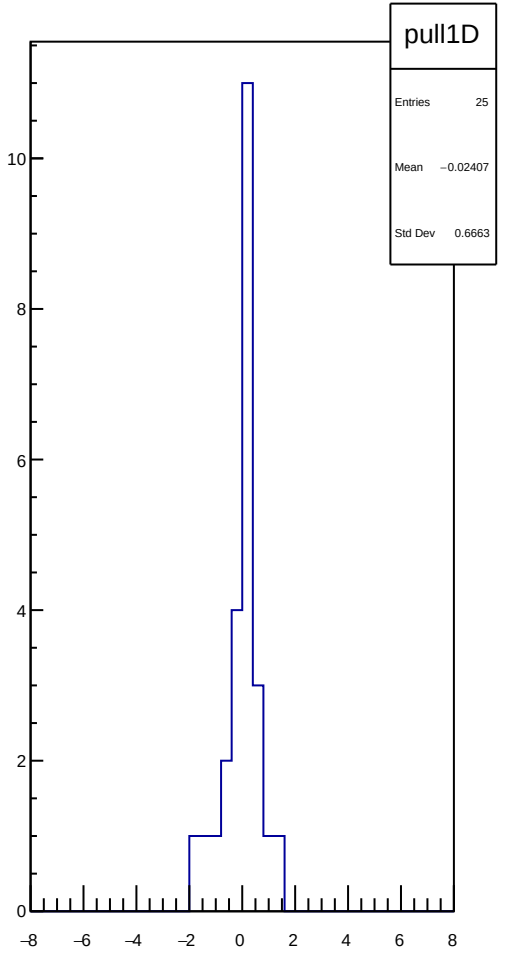

pull1D
Entries 25
Mean 0.01219
Std Dev 0.6657
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

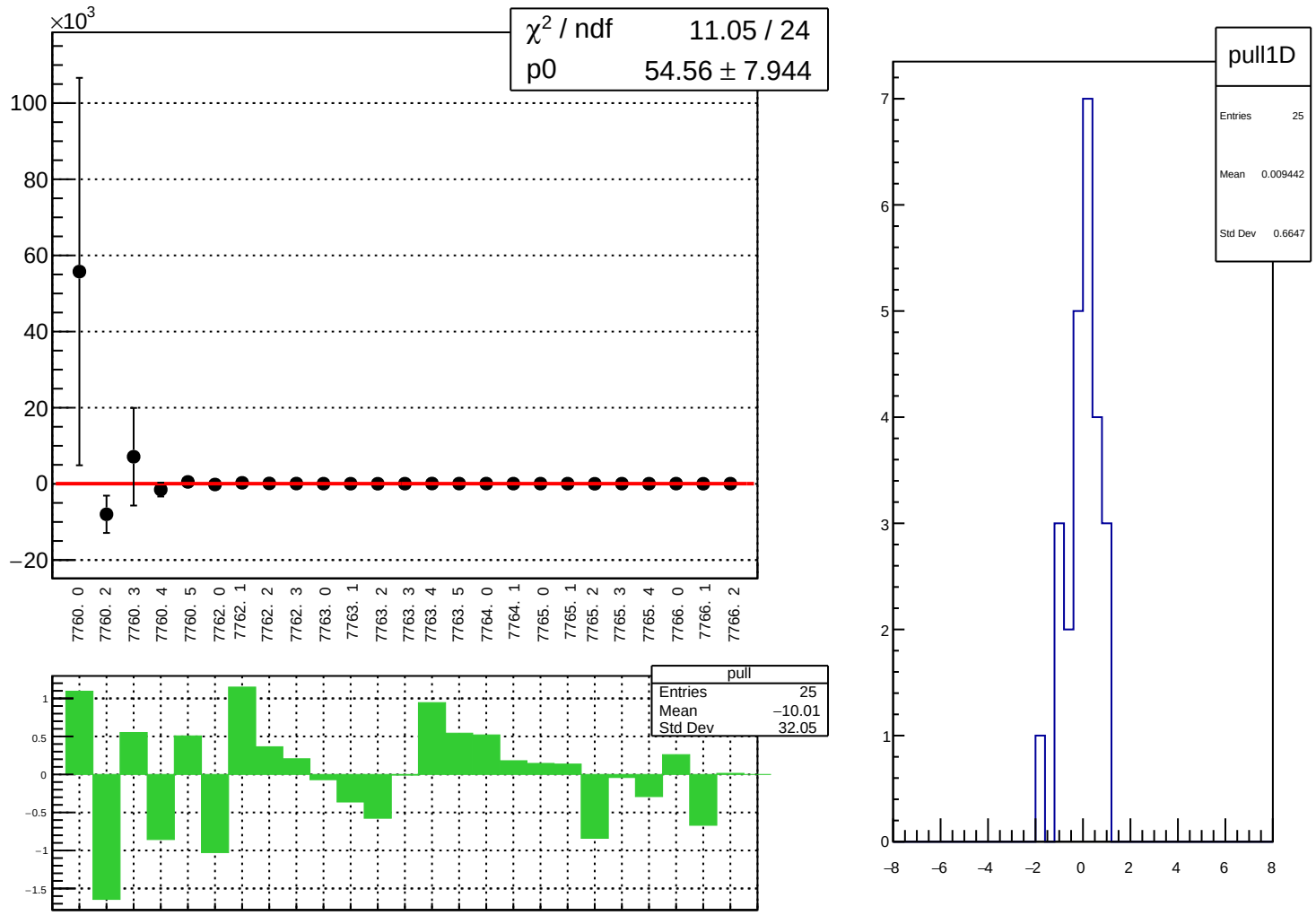

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
×10^3
χ² / ndf 15.2 / 24
p0 9.47 ± 10.41
120
100
80
60
40
20
0
−20
−40
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 4.009
Std Dev 6.272
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 25
Mean −0.04479
Std Dev 0.7785
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

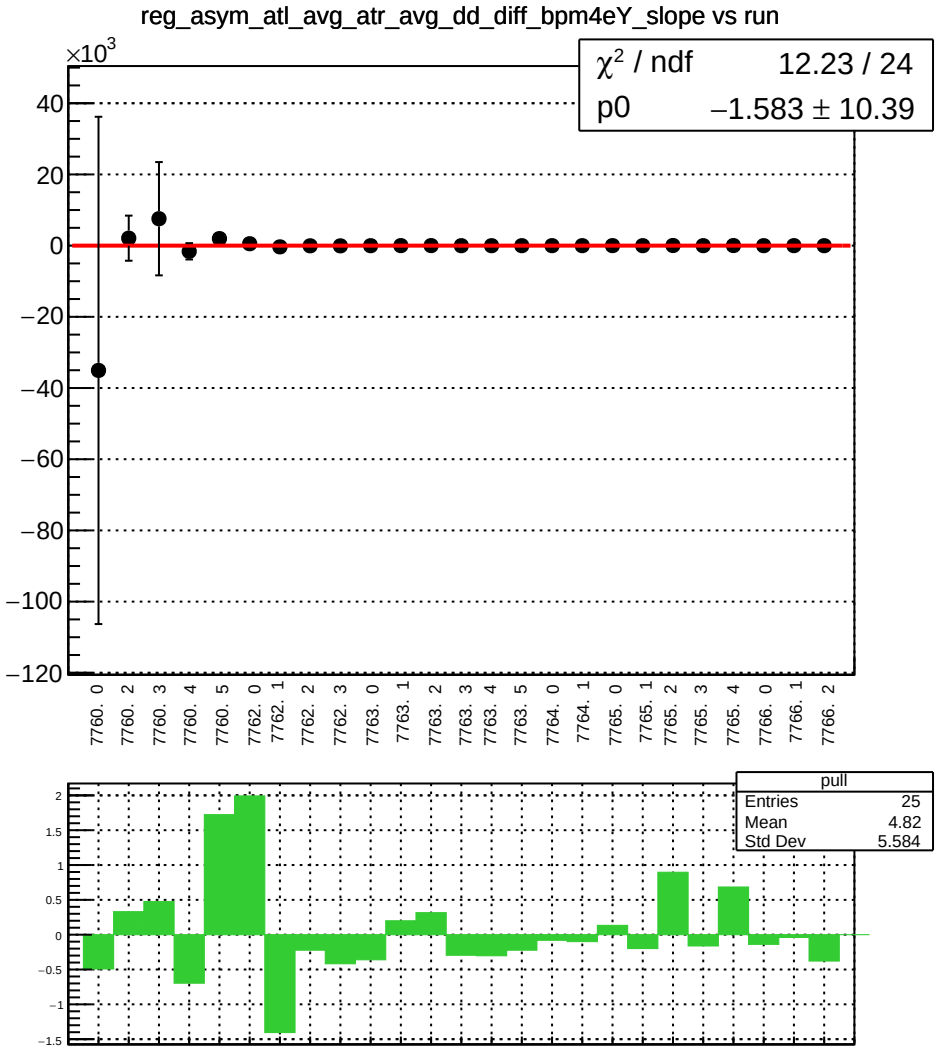

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
×10^3
χ² / ndf 125.2 / 25
p0 −66.56 ± 0.2855
150
100
50
0
−50
−100
−150
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 5.334
Std Dev 13.88
2
0
−2
−4
−6
pull1D
Entries 26
Mean −0.1336
Std Dev 2.191
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

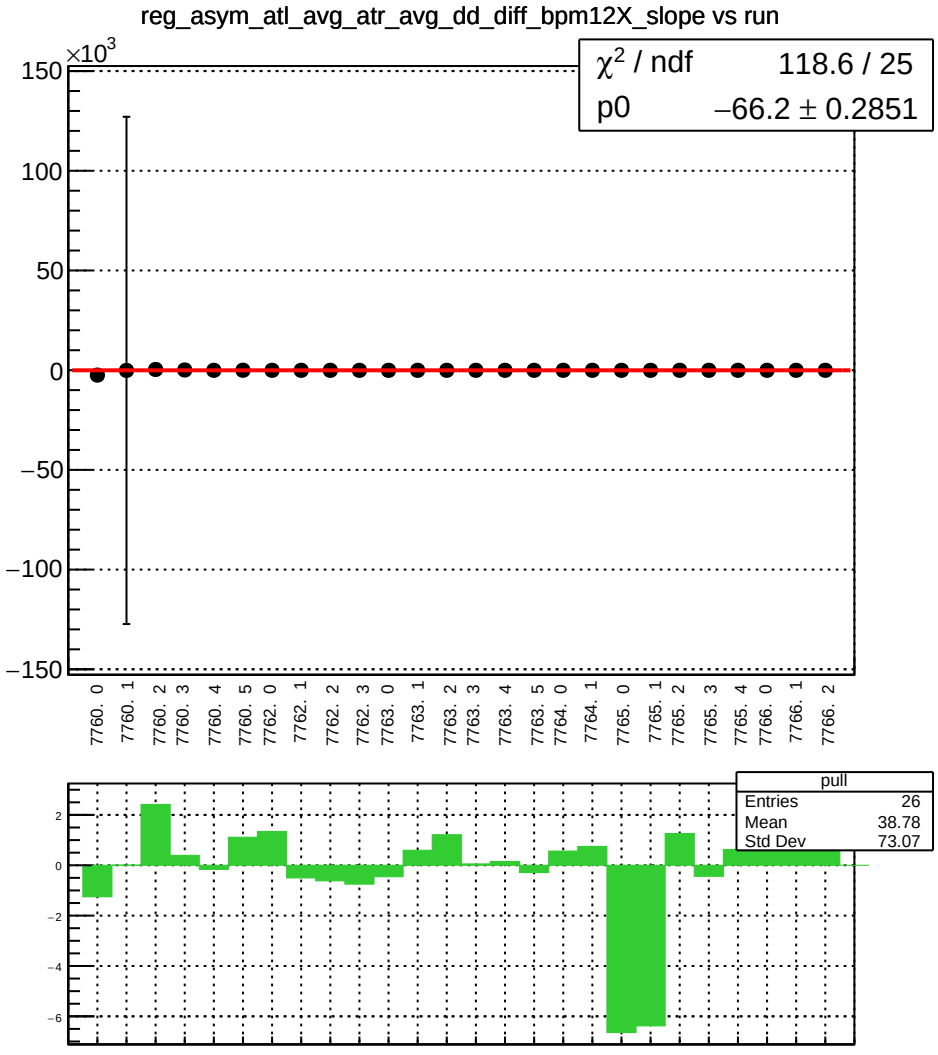

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
×10^3
χ^2 / ndf 11.25 / 24
p0 −66.11 ± 8.581
20
0
−20
−40
−60
−80
−100
−120
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −146.1
Std Dev 177.1
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 25
Mean −0.0008343
Std Dev 0.6708
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

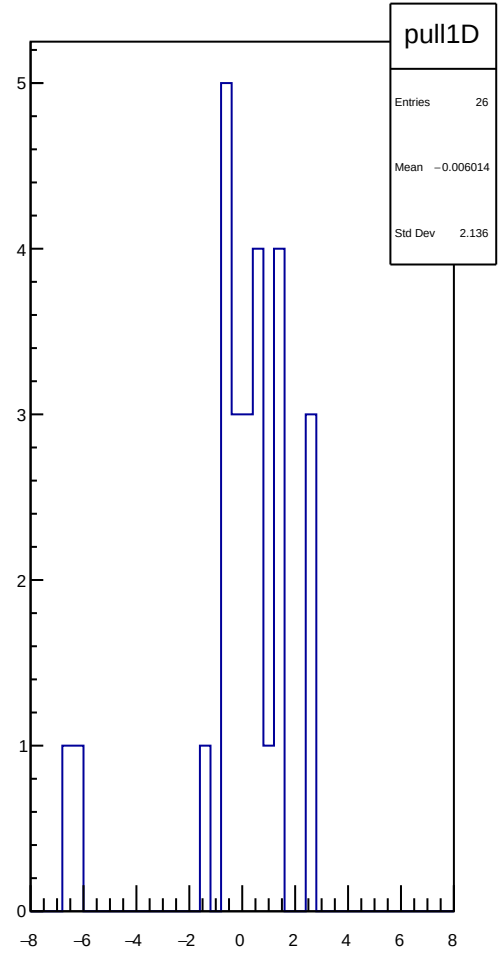

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
×10^3
χ² / ndf 11.11 / 24
p0 27.52 ± 9.228
100
80
60
40
20
0
−20
−40
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 5.101
Std Dev 6.487
1.5
1
0.5
0
−0.5
−1
−1.5

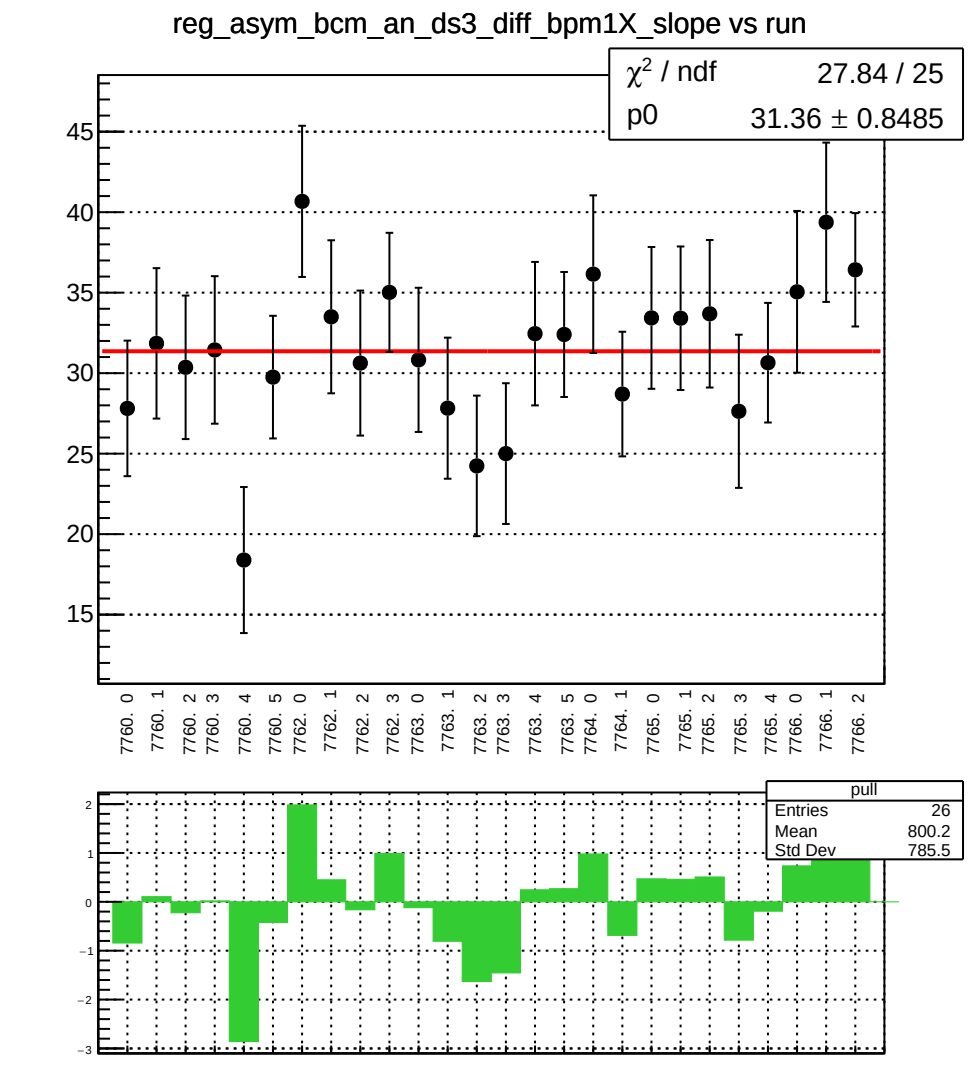

pull1D
Entries 25
Mean −0.02407
Std Dev 0.6663
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

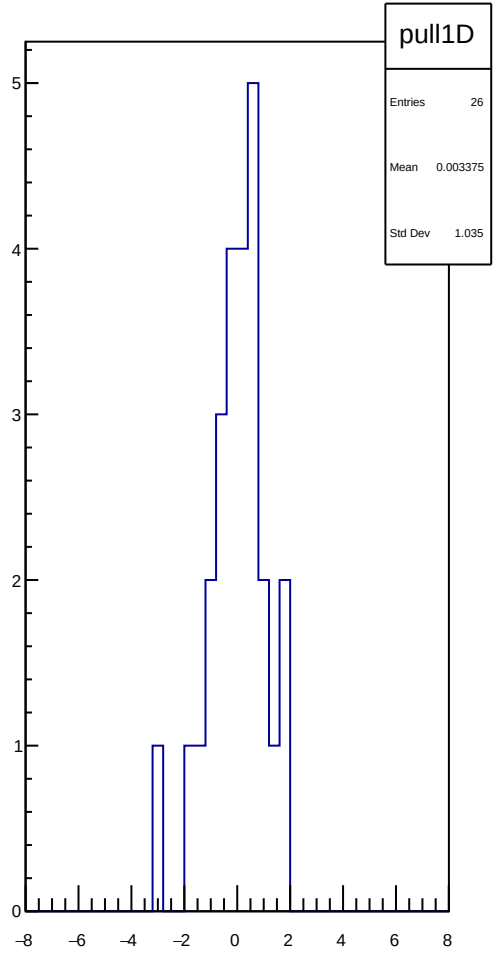

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
×10^3
χ^2 / ndf 11.05 / 24
p0 54.56 ± 7.944
100
80
60
40
20
0
−20
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean −10.01
Std Dev 32.05
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 25
Mean 0.009442
Std Dev 0.6647
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

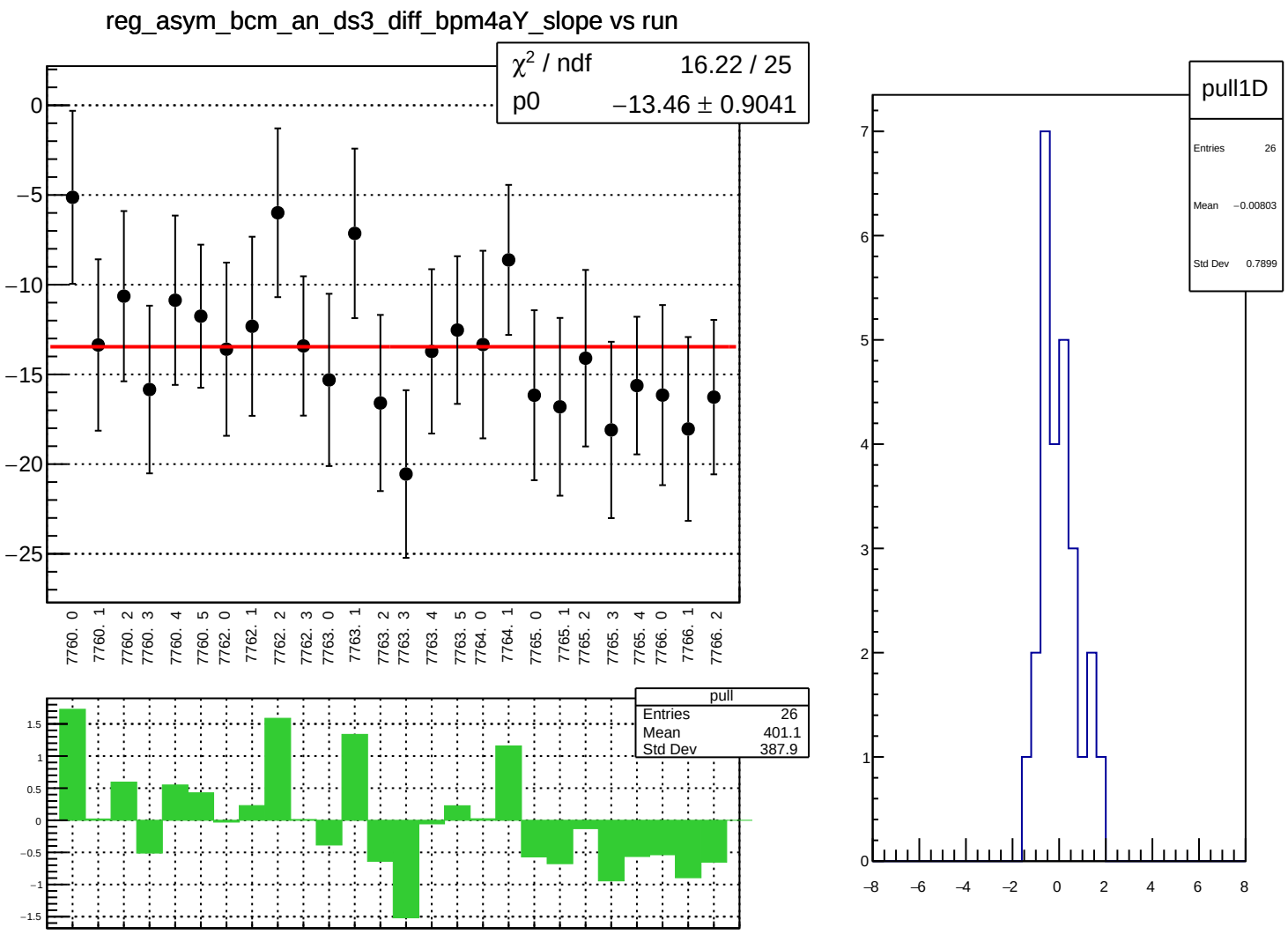

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
×10^3
χ² / ndf 12.23 / 24
p0 −1.583 ± 10.39
40
20
0
−20
−40
−60
−80
−100
−120
7760. 0
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 25
Mean 4.82
Std Dev 5.584
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 25
Mean 0.04951
Std Dev 0.6978
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

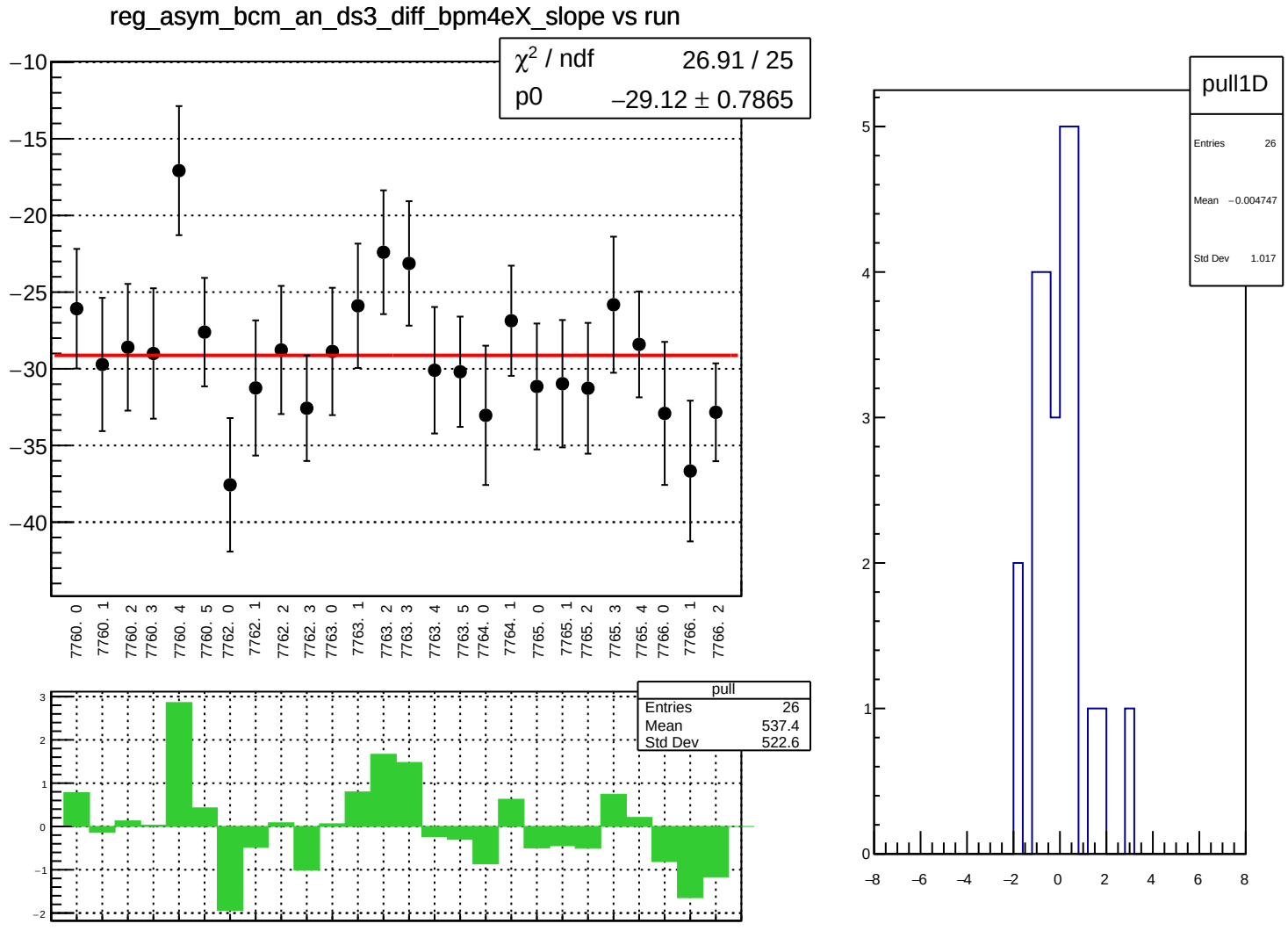

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
×10^3
χ^2 / ndf 118.6 / 25
p0 −66.2 ± 0.2851
150
100
50
0
−50
−100
−150
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 38.78
Std Dev 73.07
2
0
−2
−4
−6

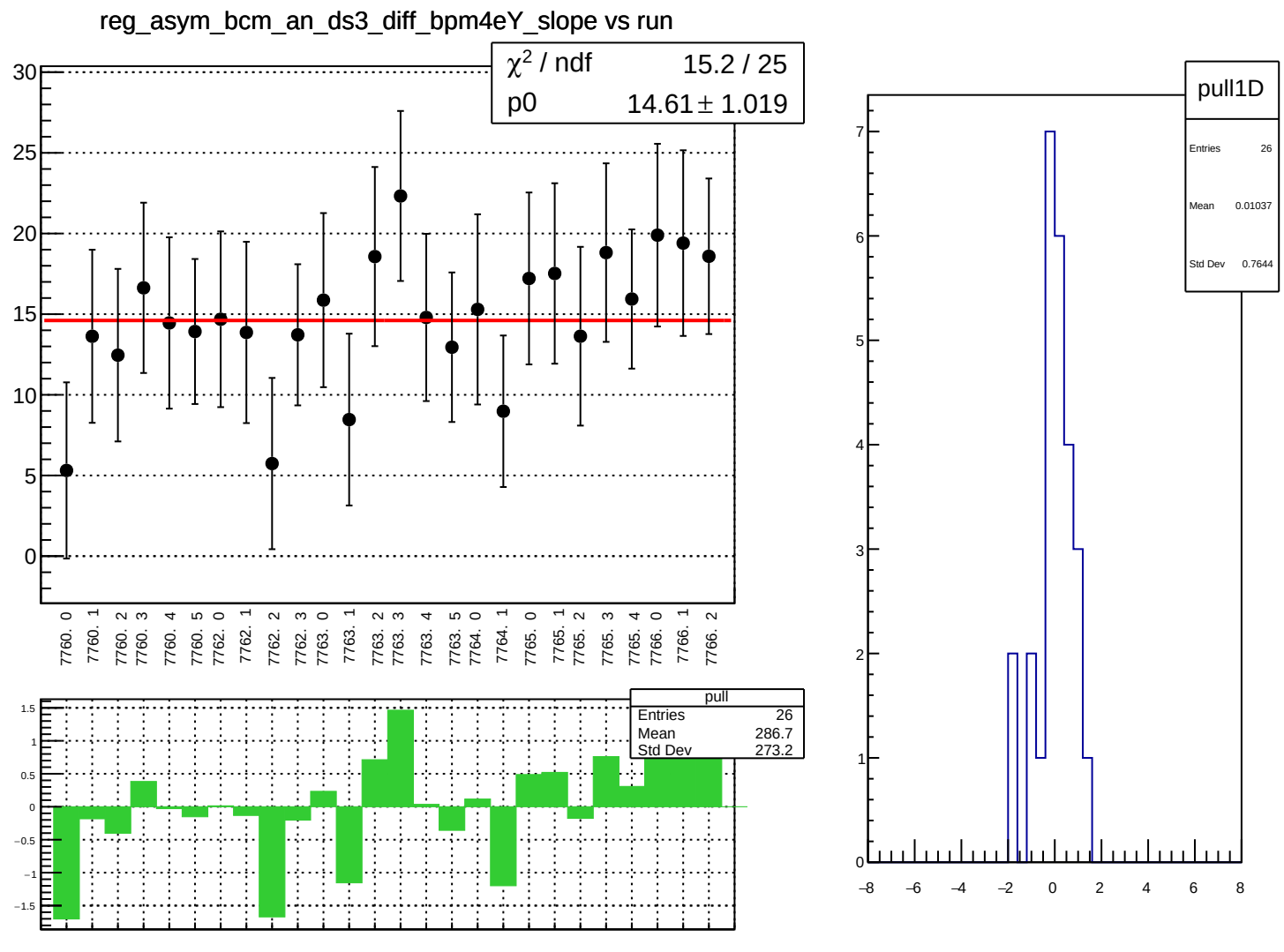

pull1D
Entries 26
Mean −0.006014
Std Dev 2.136
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

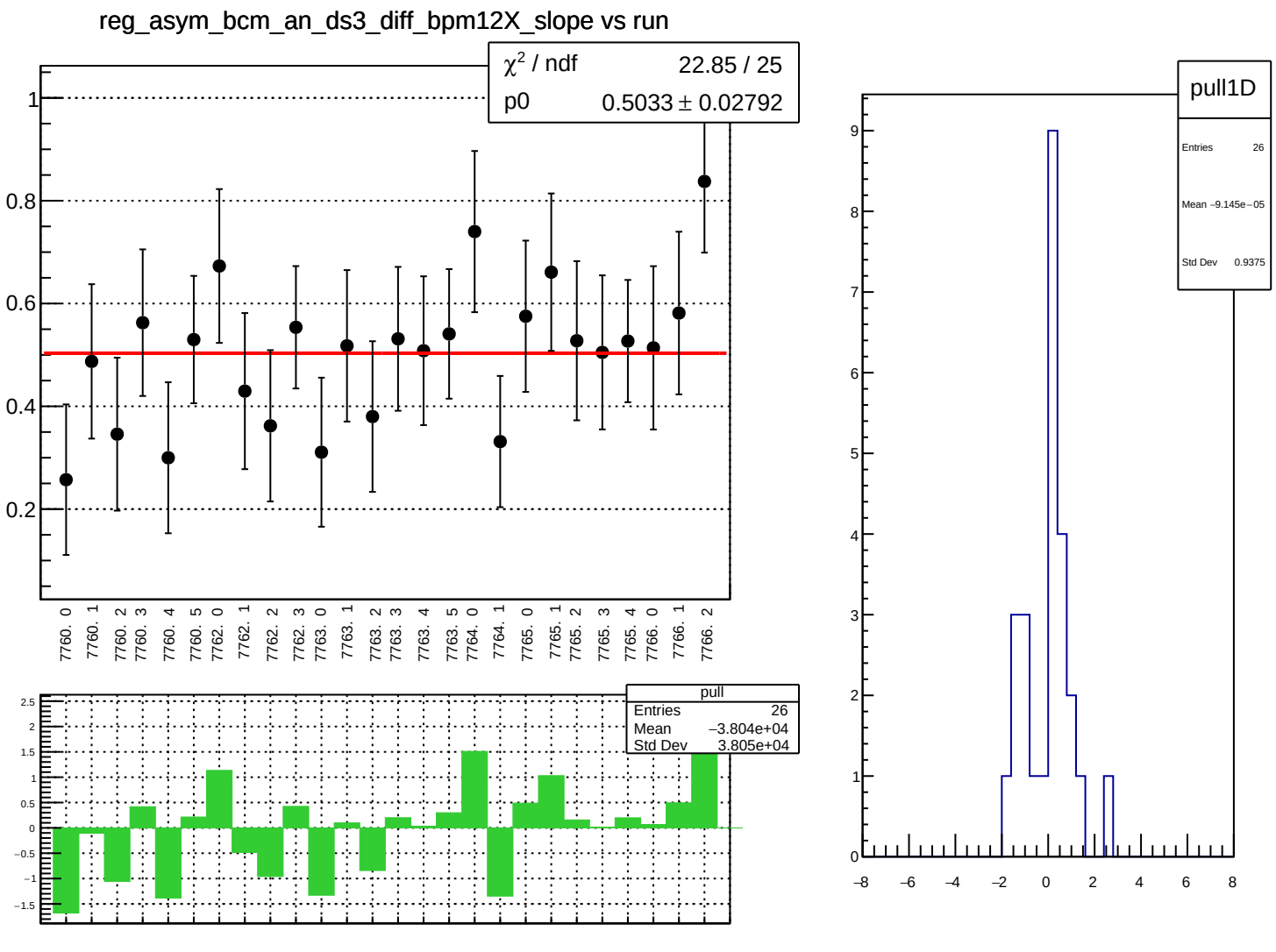

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 27.84 / 25
p0 31.36 ± 0.8485
45
40
35
30
25
20
15
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 800.2
Std Dev 785.5
2
1
0
−1
−2
−3

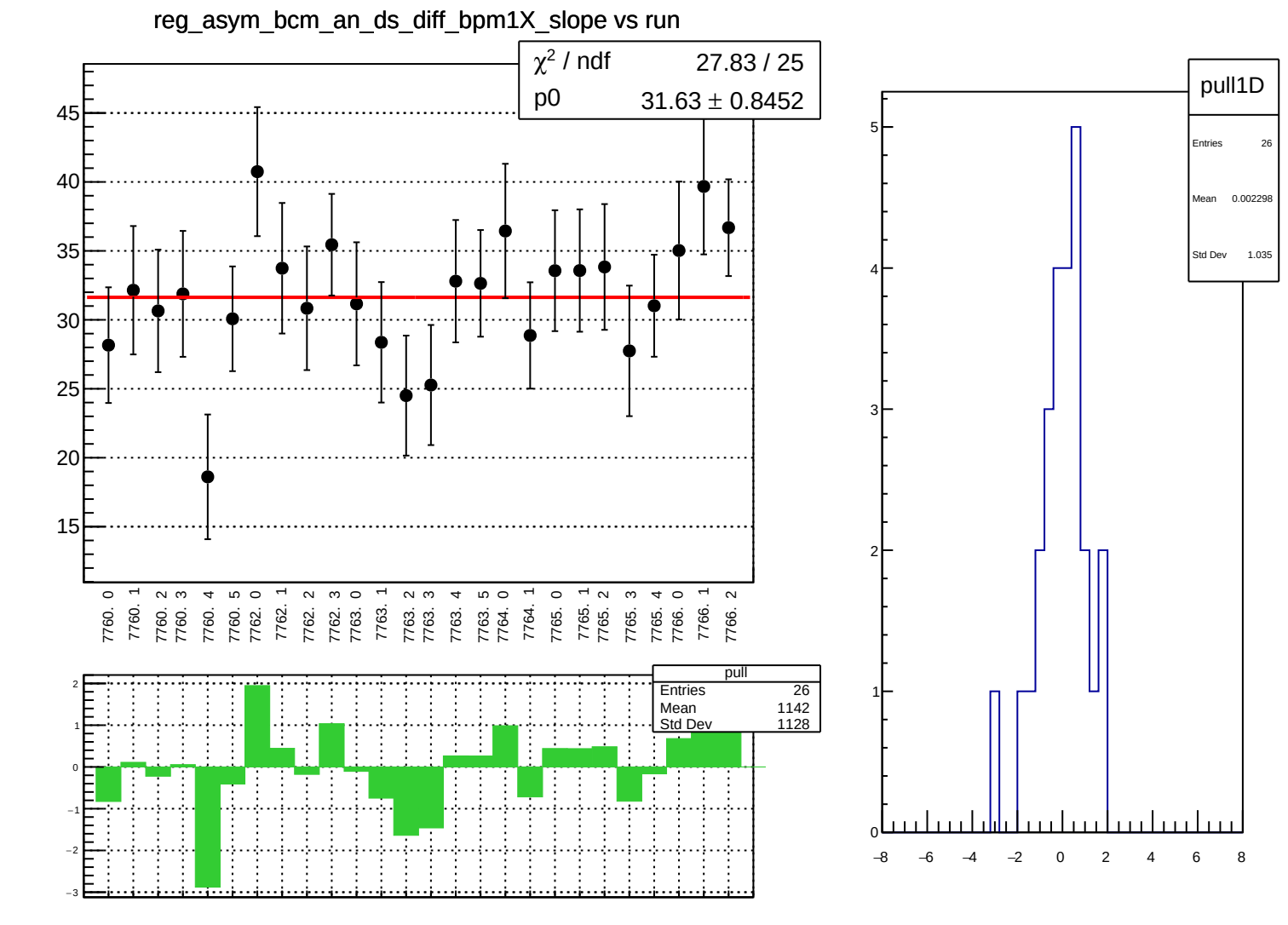

pull1D
Entries 26
Mean 0.003375
Std Dev 1.035
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

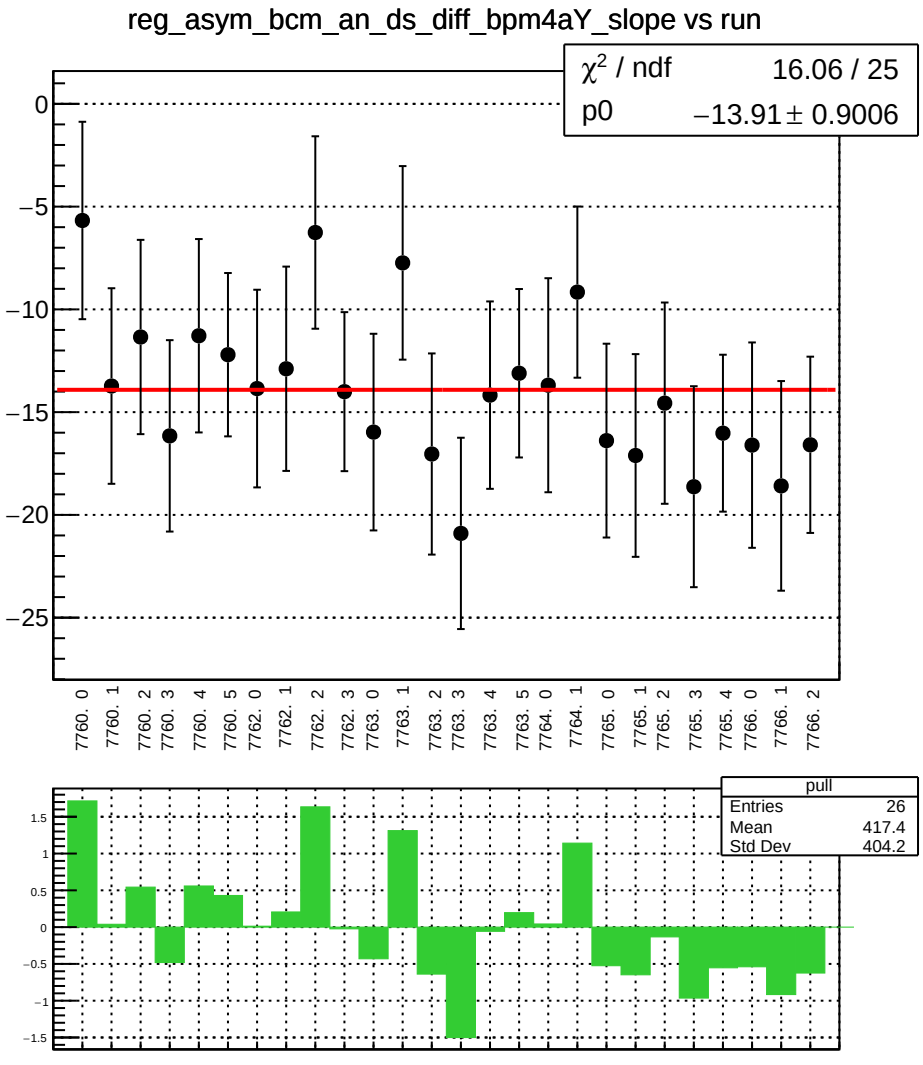

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 16.22 / 25
p0 −13.46 ± 0.9041
0
−5
−10
−15
−20
−25
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 401.1
Std Dev 387.9
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 26
Mean −0.00803
Std Dev 0.7899
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

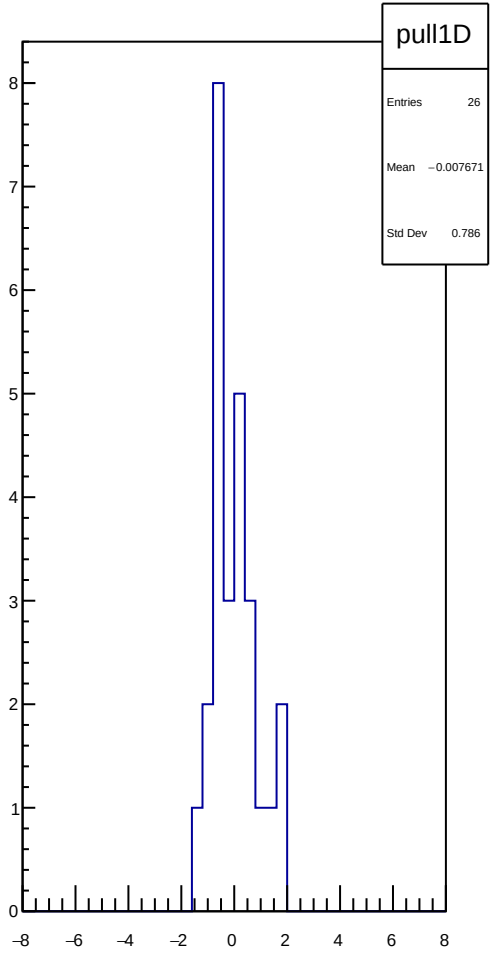

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 26.91 / 25
p0 −29.12 ± 0.7865
−10
−15
−20
−25
−30
−35
−40
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 537.4
Std Dev 522.6
3
2
1
0
−1
−2
pull1D
Entries 26
Mean −0.004747
Std Dev 1.017
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

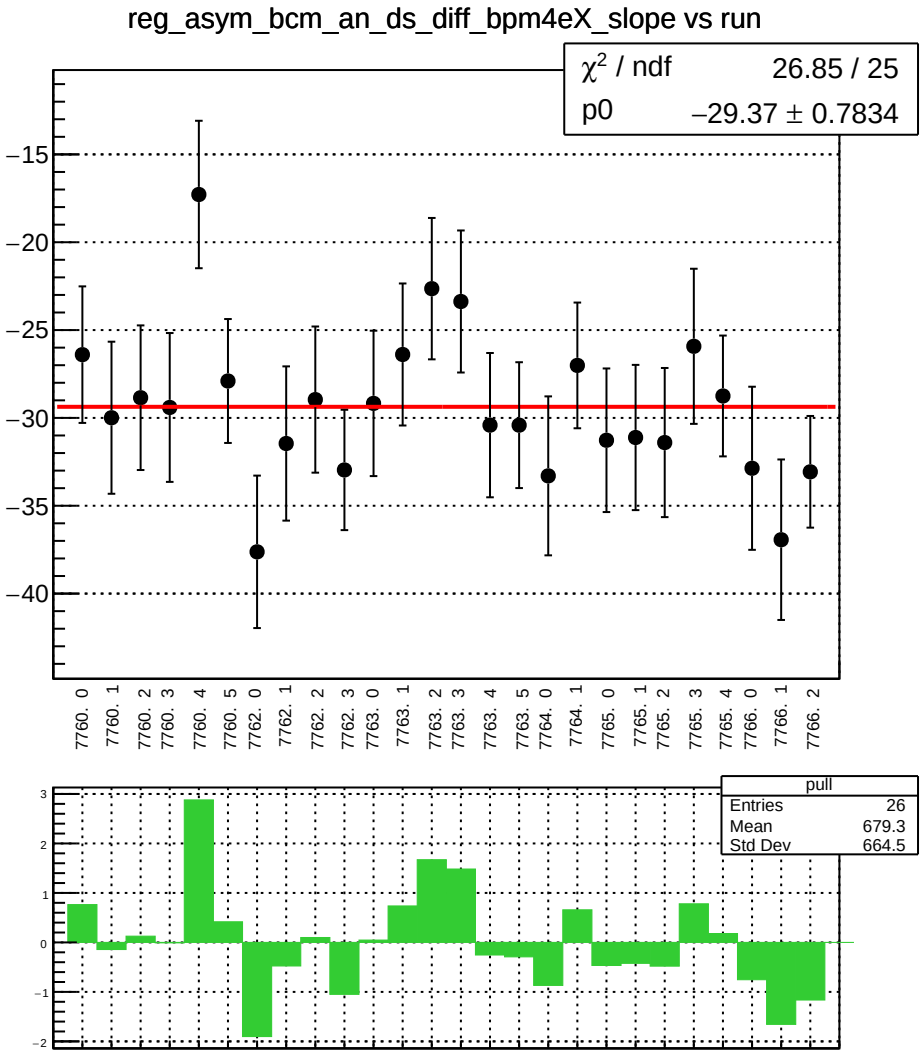

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 15.2 / 25
p0 14.61 ± 1.019
30
25
20
15
10
5
0
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 286.7
Std Dev 273.2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 26
Mean 0.01037
Std Dev 0.7644
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

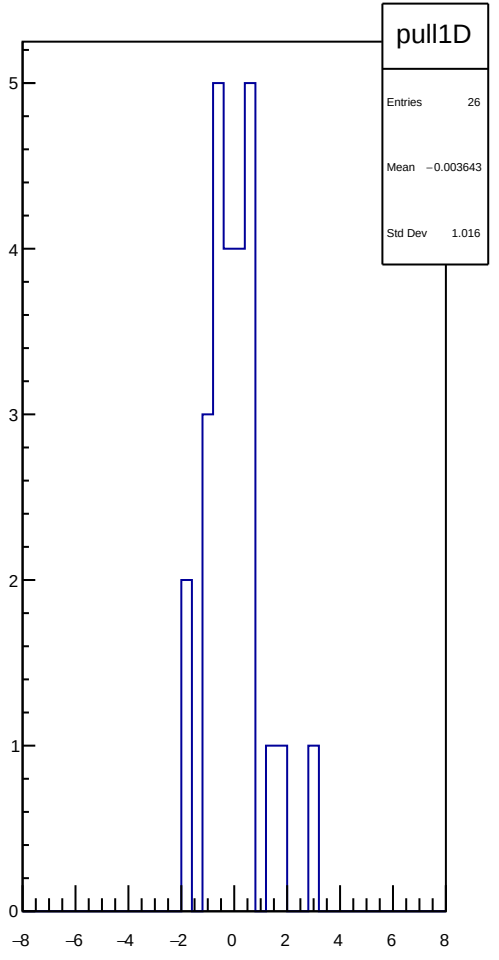

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 22.85 / 25
p0 0.5033 ± 0.02792
1
0.8
0.6
0.4
0.2
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −3.804e+04
Std Dev 3.805e+04
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 26
Mean −9.145e−05
Std Dev 0.9375
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

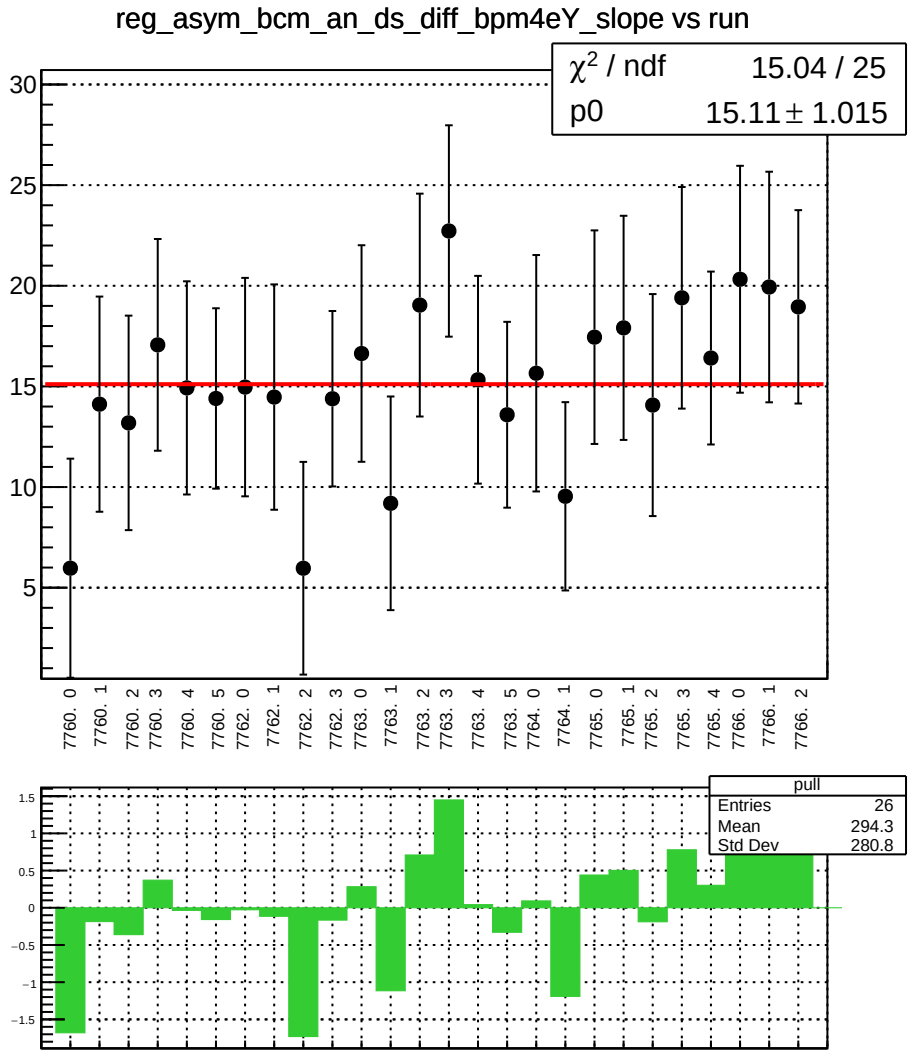

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 27.83 / 25
p0 31.63 ± 0.8452
45
40
35
30
25
20
15
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 1142
Std Dev 1128
2
1
0
−1
−2
−3
pull1D
Entries 26
Mean 0.002298
Std Dev 1.035
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

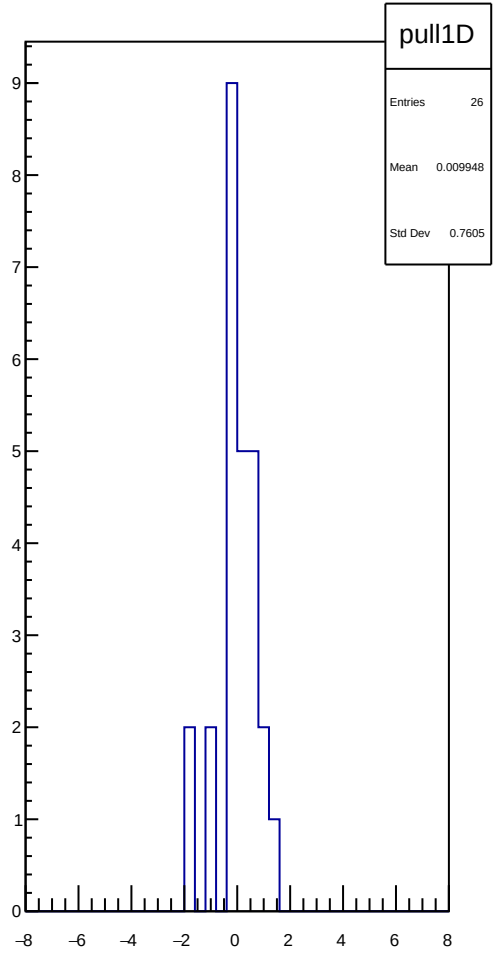

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 16.06 / 25
p0 −13.91 ± 0.9006
0
−5
−10
−15
−20
−25
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 417.4
Std Dev 404.2
1.5
1
0.5
0
−0.5
−1
−1.5

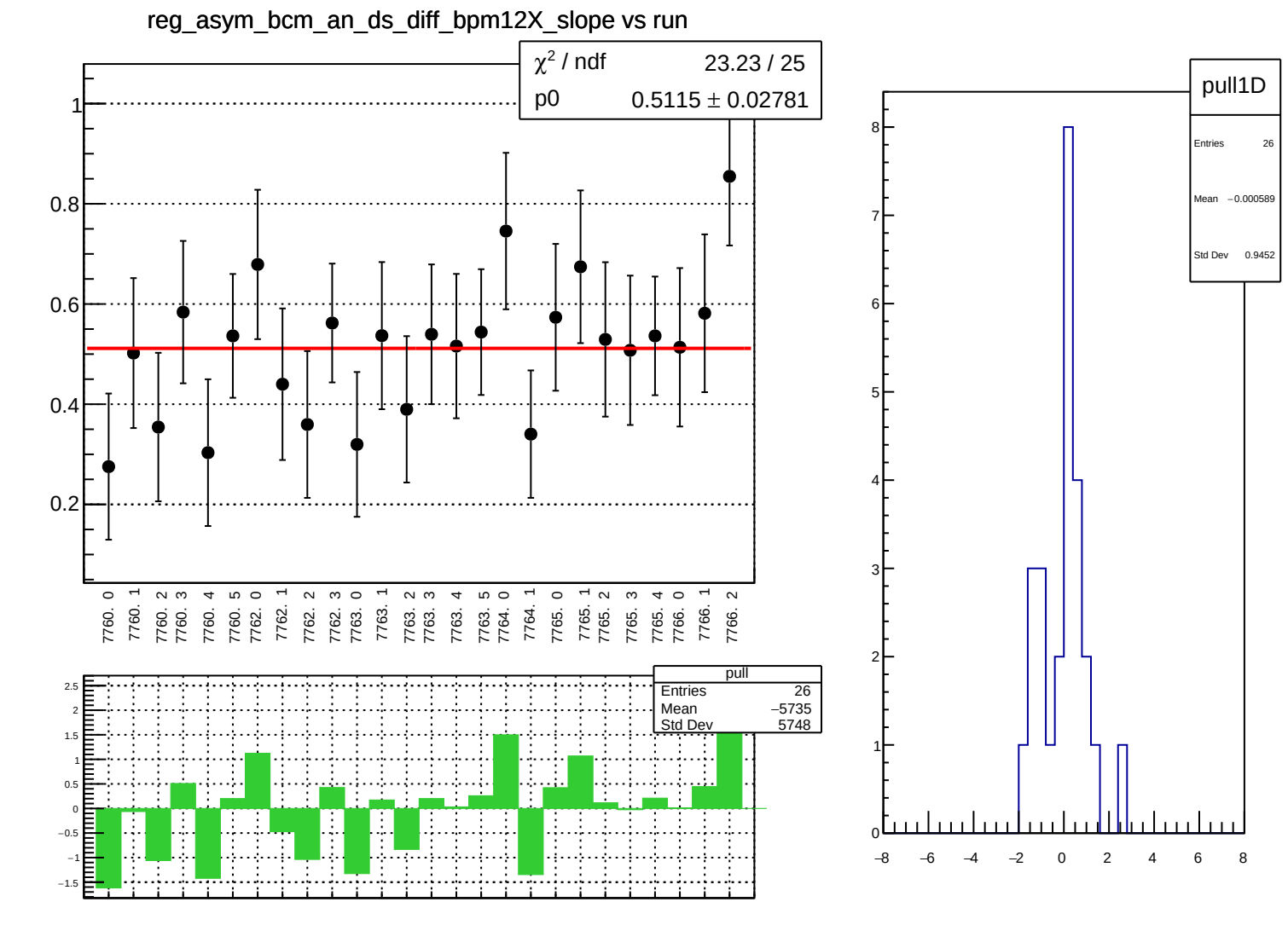

pull1D
Entries 26
Mean −0.007671
Std Dev 0.786
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

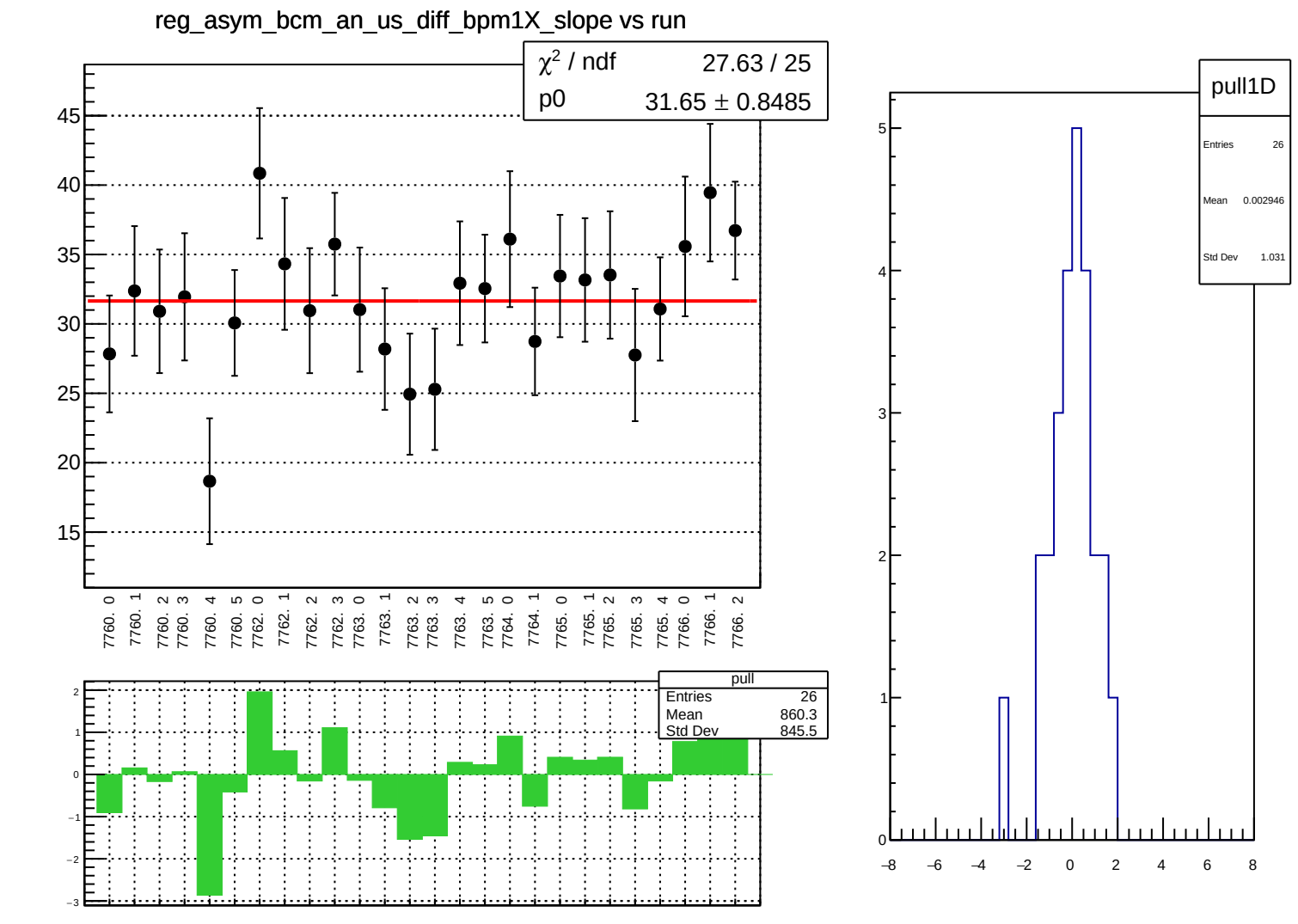

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 26.85 / 25
p0 −29.37 ± 0.7834
−15
−20
−25
−30
−35
−40
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 679.3
Std Dev 664.5
3
2
1
0
−1
−2

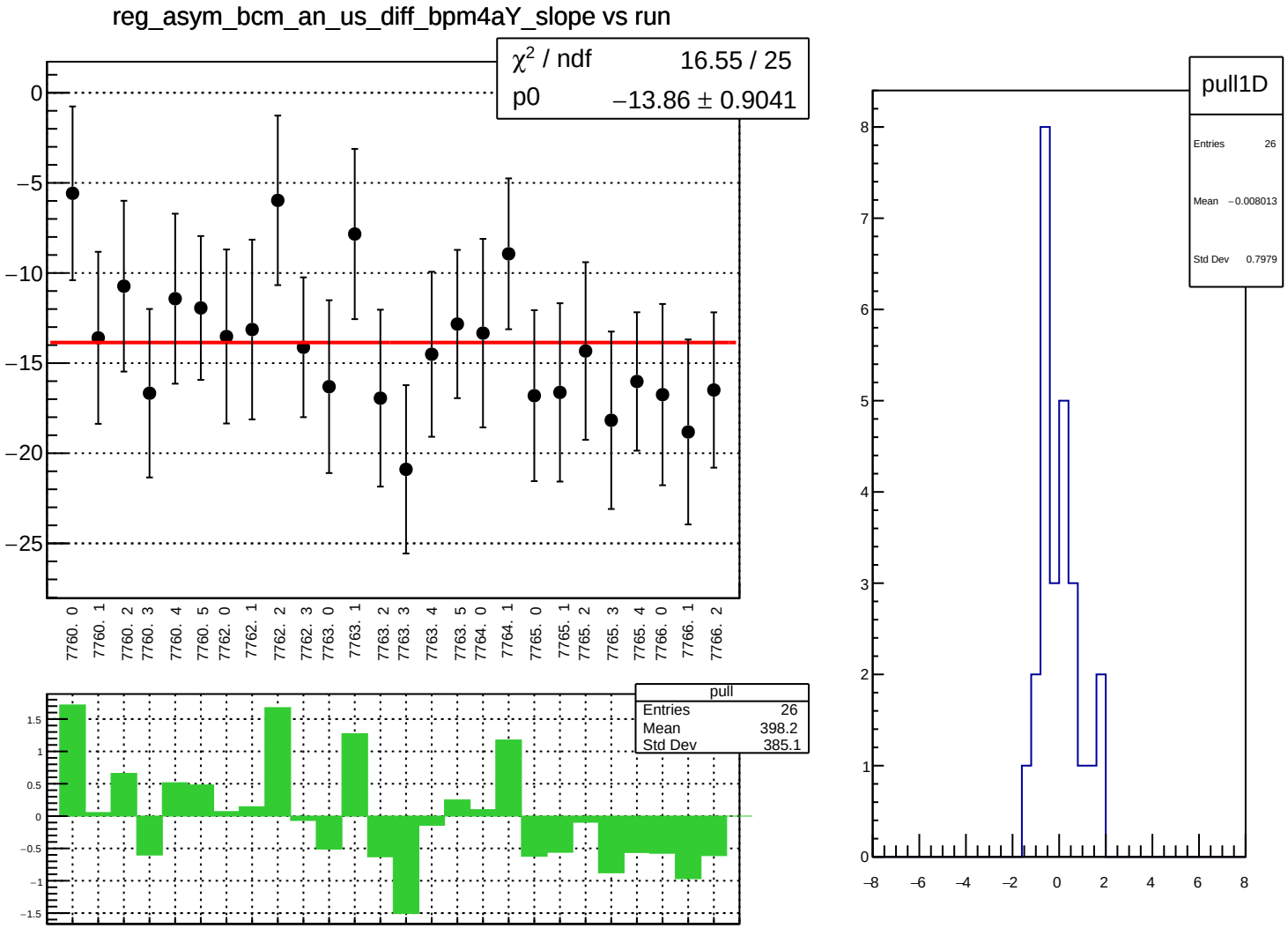

pull1D
Entries 26
Mean −0.003643
Std Dev 1.016
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

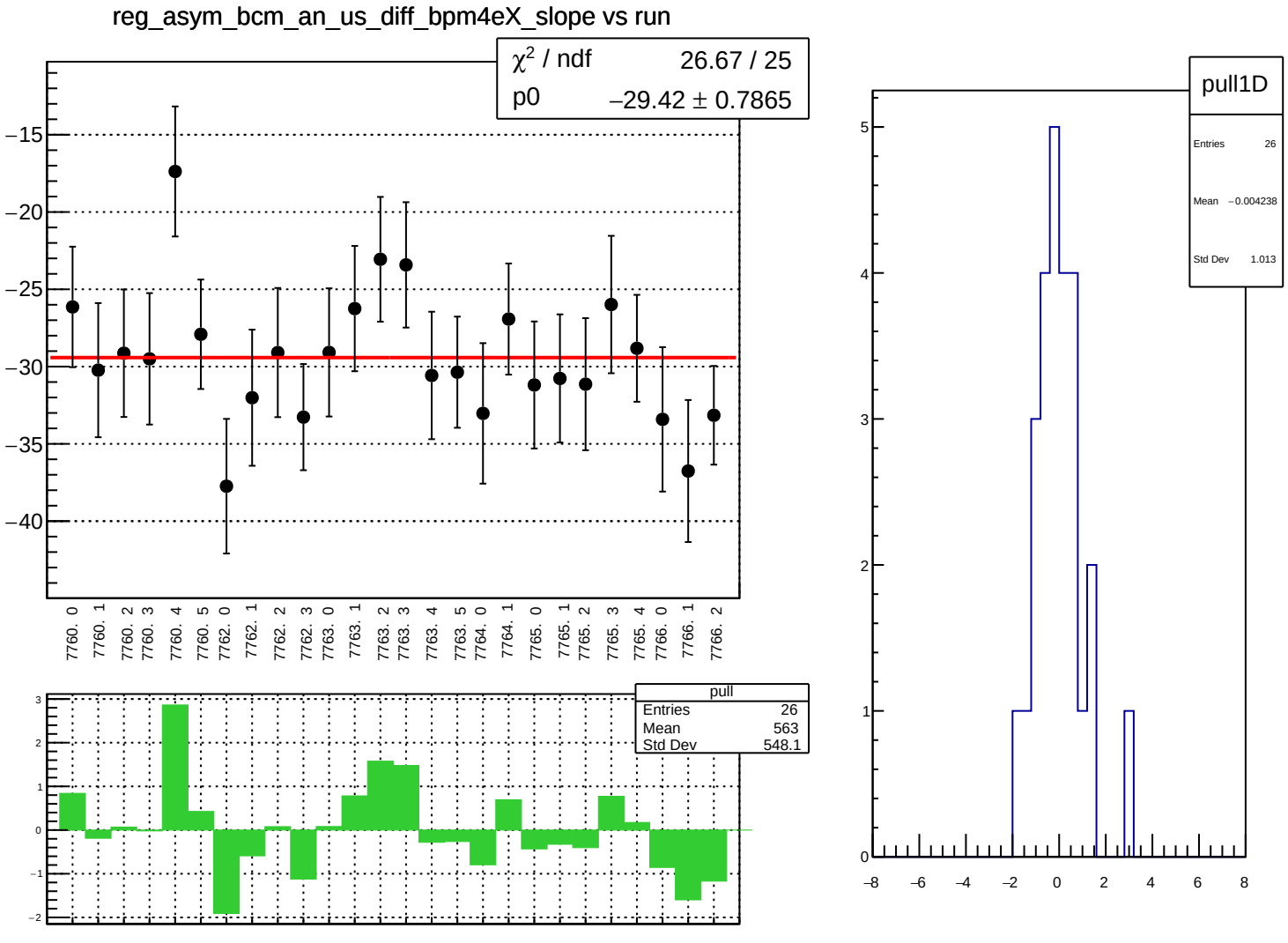

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 15.04 / 25
p0 15.11 ± 1.015
30
25
20
15
10
5
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 294.3
Std Dev 280.8
1.5
1
0.5
0
−0.5
−1
−1.5

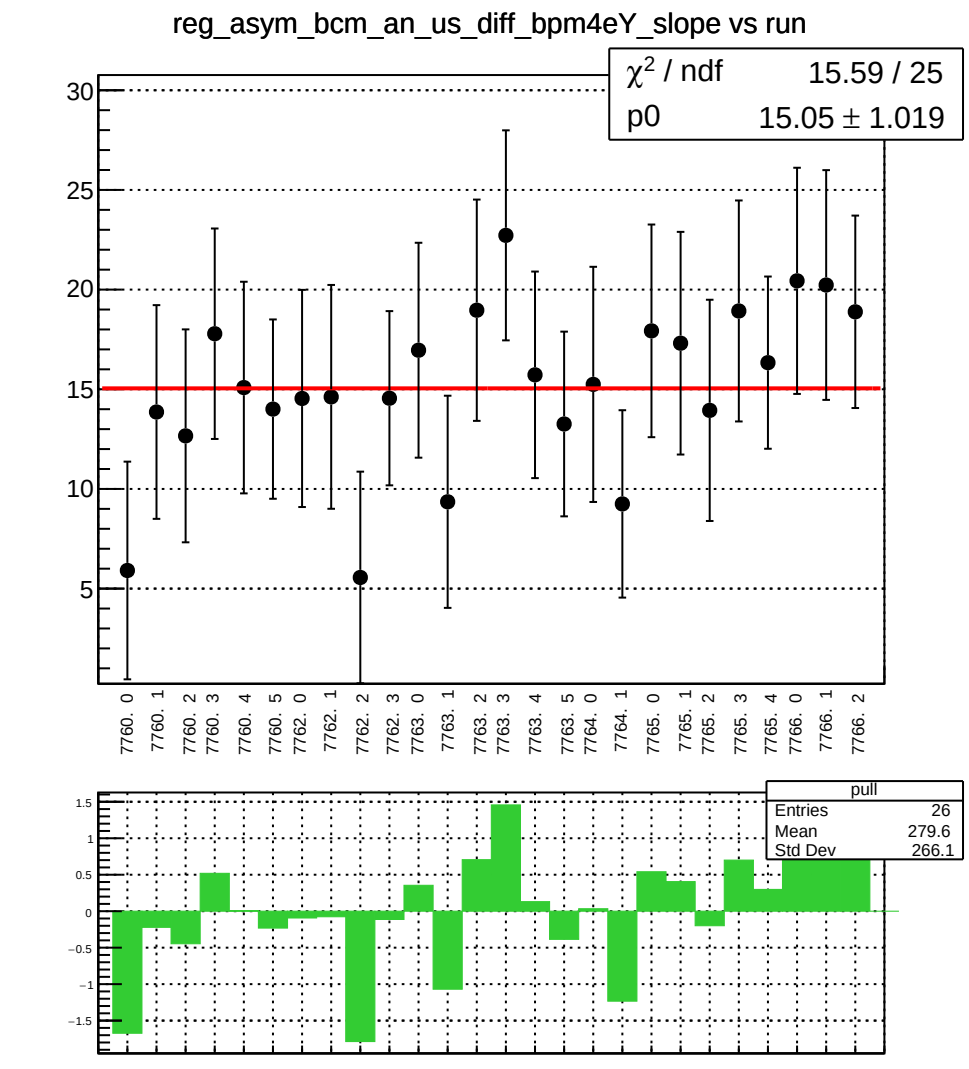

pull1D
Entries 26
Mean 0.009948
Std Dev 0.7605
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

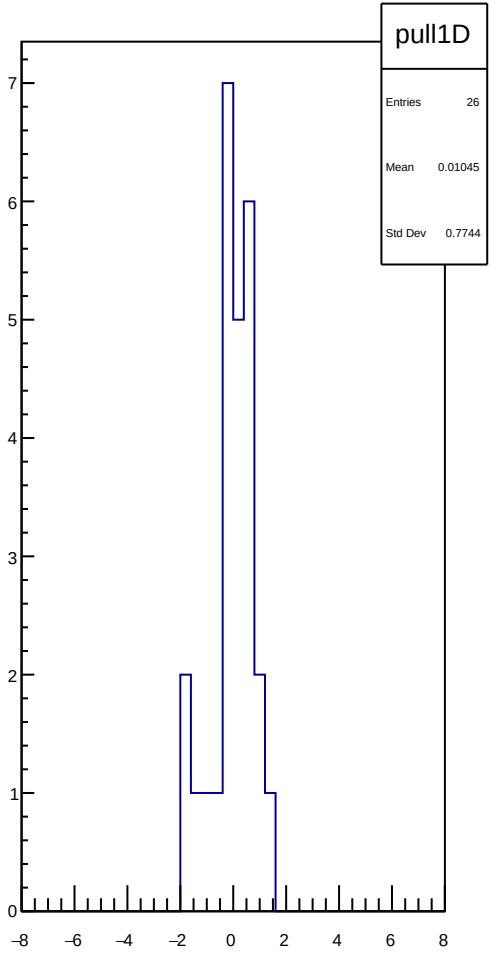

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 23.23 / 25
p0 0.5115 ± 0.02781
1
0.8
0.6
0.4
0.2
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −5735
Std Dev 5748
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 26
Mean −0.000589
Std Dev 0.9452
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

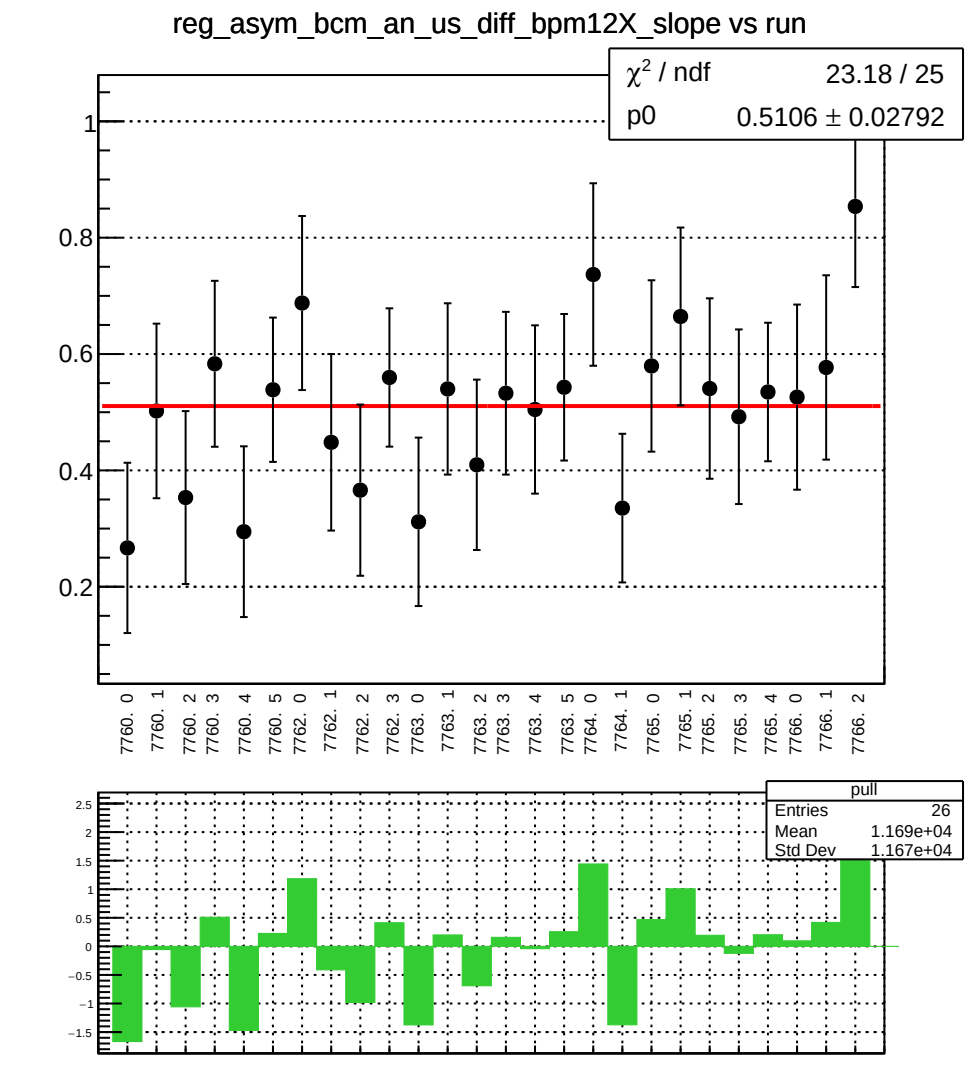

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 27.63 / 25
p0 31.65 ± 0.8485
45
40
35
30
25
20
15
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 860.3
Std Dev 845.5
2
1
0
−1
−2
−3
pull1D
Entries 26
Mean 0.002946
Std Dev 1.031
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

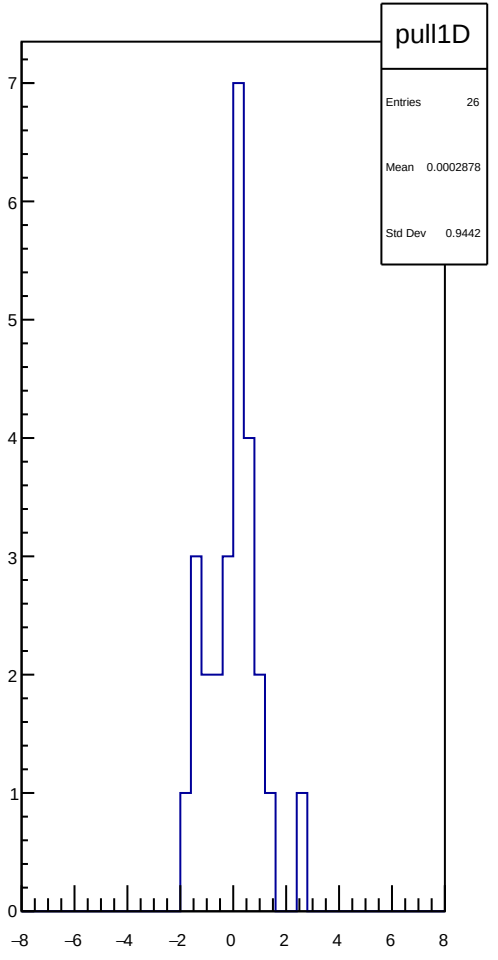

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 16.55 / 25
p0 −13.86 ± 0.9041
0
−5
−10
−15
−20
−25
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 398.2
Std Dev 385.1
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 26
Mean −0.008013
Std Dev 0.7979
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

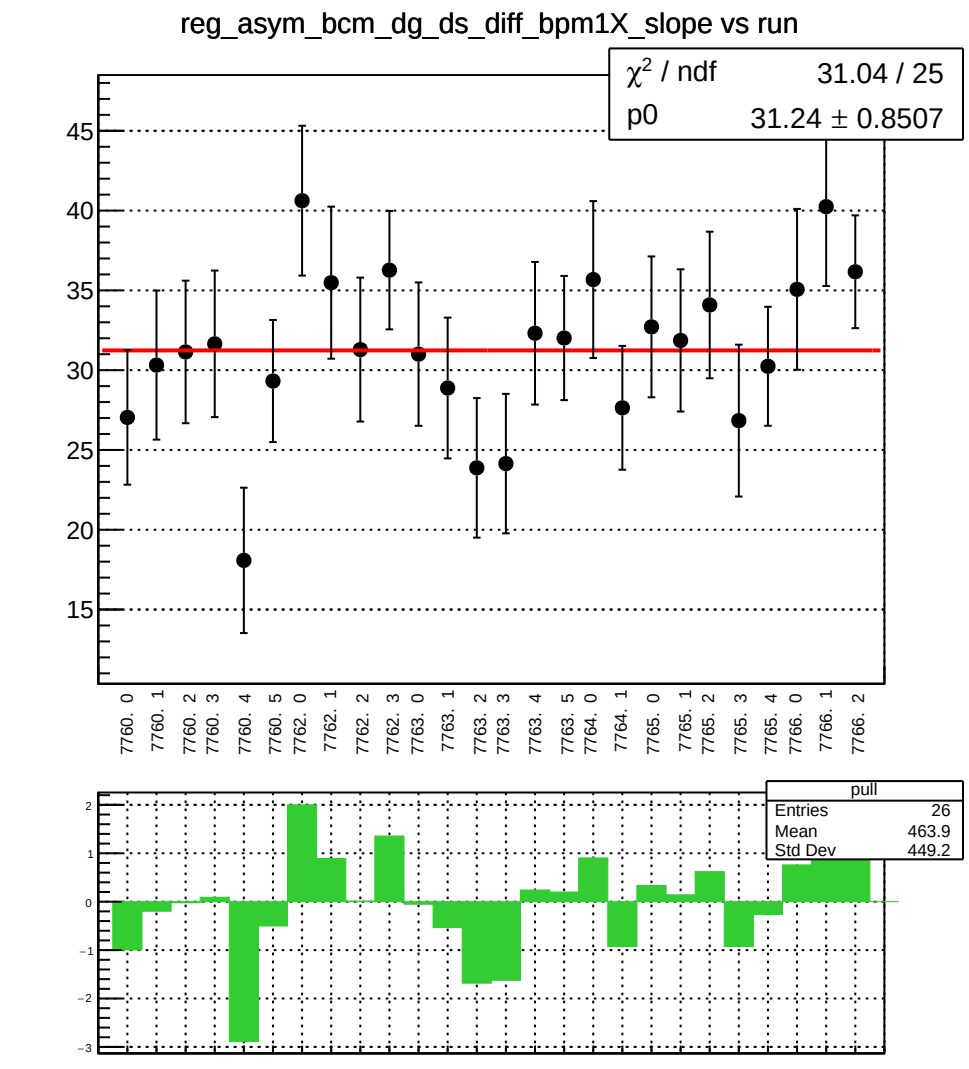

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 26.67 / 25
p0 −29.42 ± 0.7865
−15
−20
−25
−30
−35
−40
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 563
Std Dev 548.1
3
2
1
0
−1
−2
pull1D
Entries 26
Mean −0.004238
Std Dev 1.013
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 15.59 / 25
p0 15.05 ± 1.019
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
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 279.6
Std Dev 266.1
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 26
Mean 0.01045
Std Dev 0.7744
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 23.18 / 25
p0 0.5106 ± 0.02792
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
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 1.169e+04
Std Dev 1.167e+04
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 26
Mean 0.0002878
Std Dev 0.9442
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 31.04 / 25
p0 31.24 ± 0.8507
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
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7763. 2
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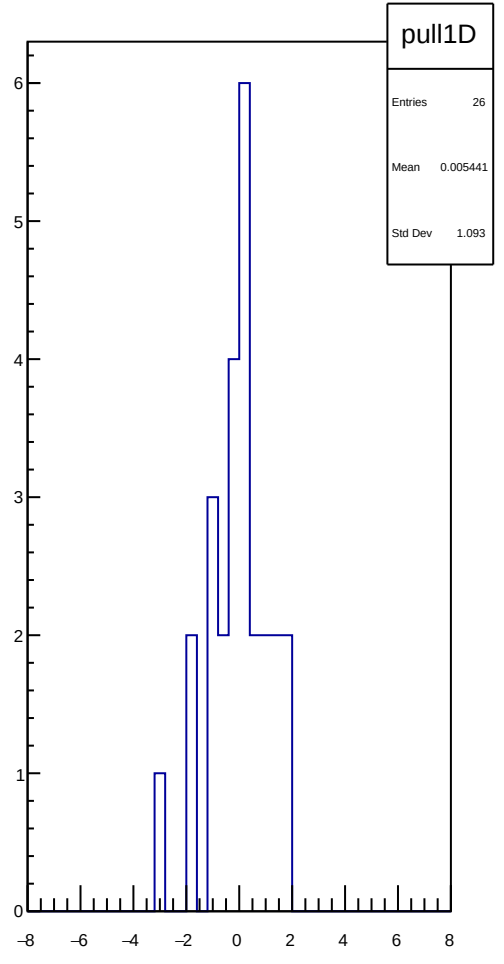
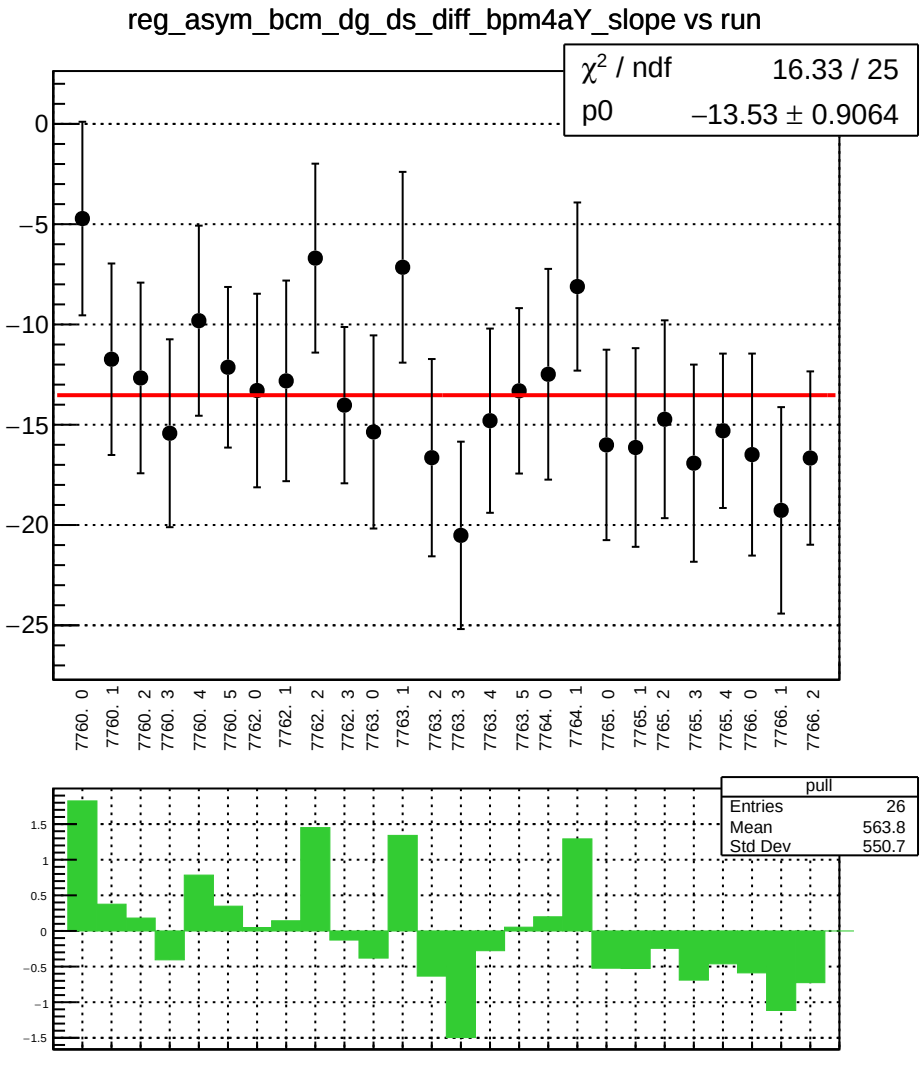
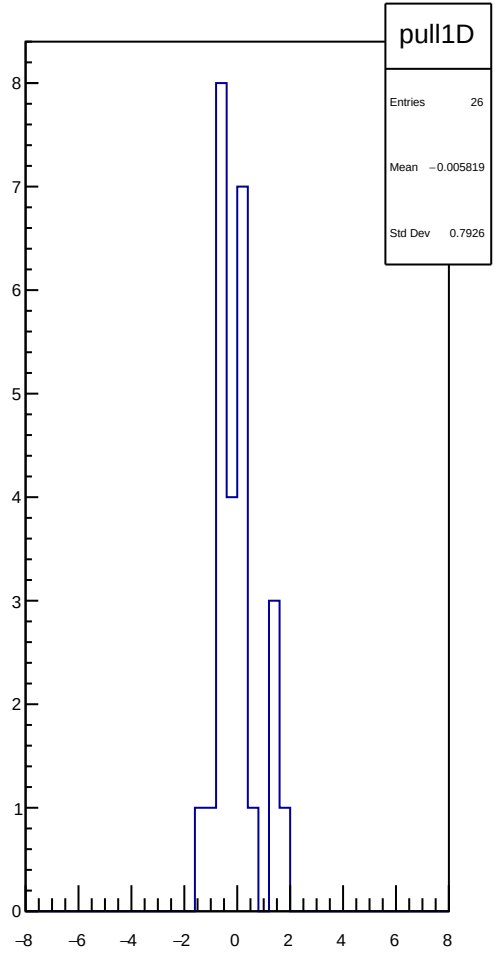
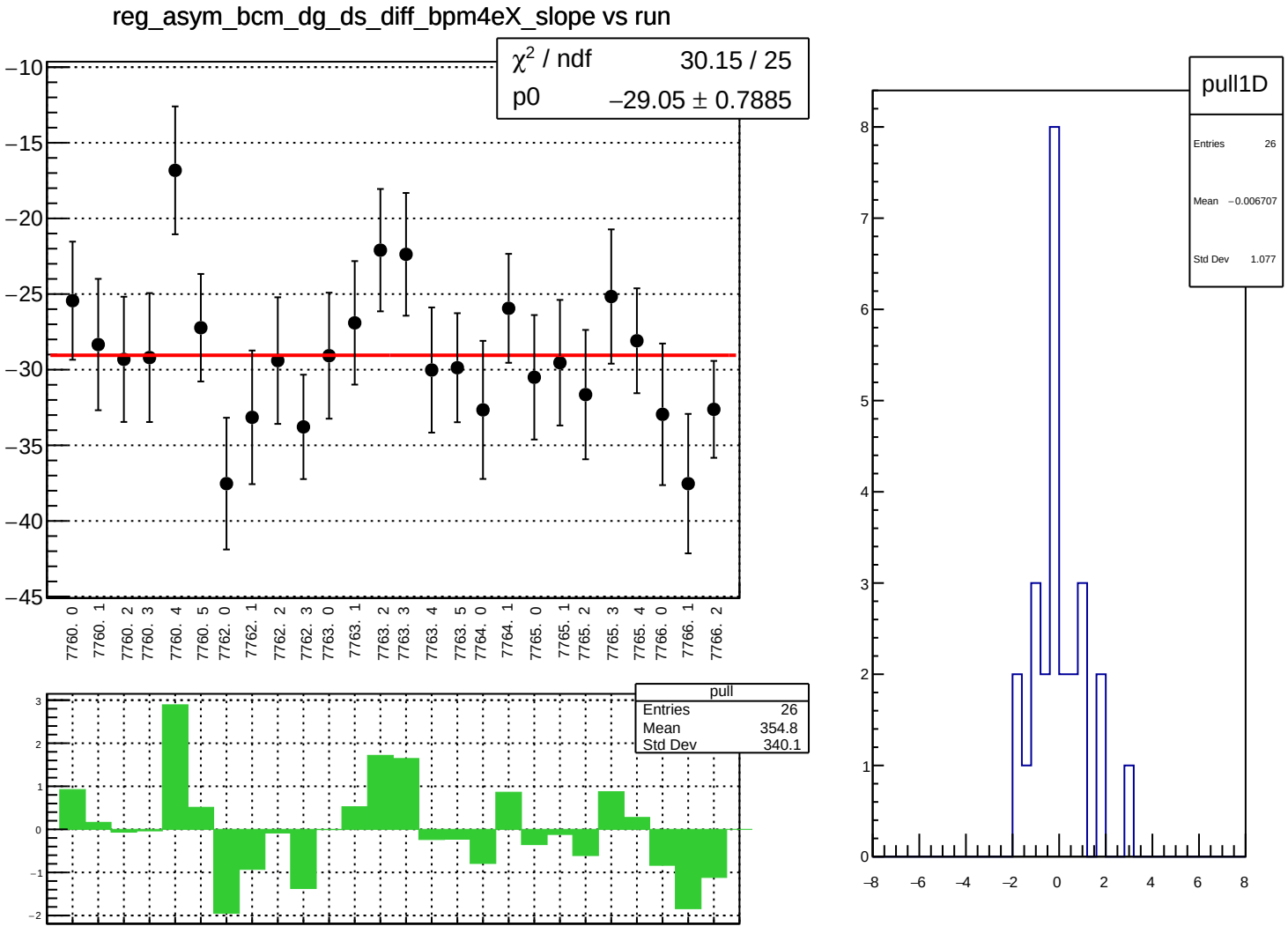
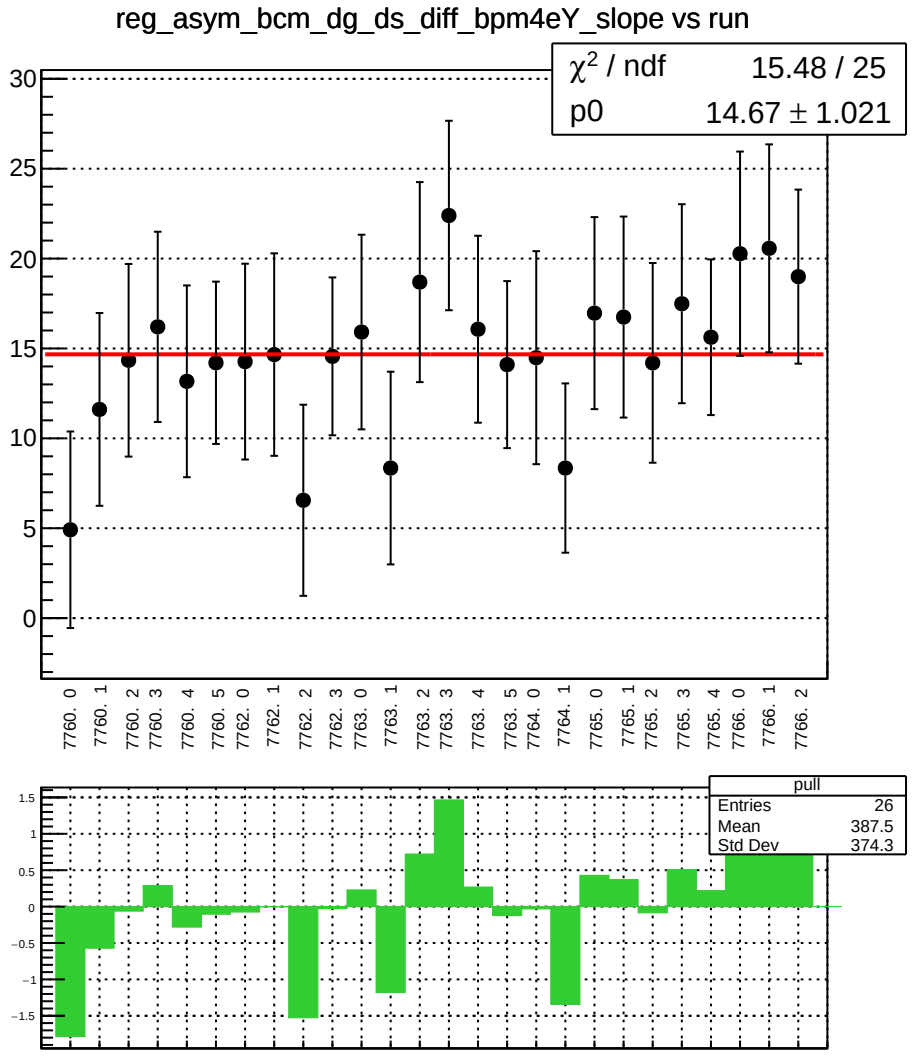
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 463.9
Std Dev 449.2
2
1
0
−1
−2
−3


pull1D
Entries 26
Mean 0.005441
Std Dev 1.093
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 16.33 / 25
p0 −13.53 ± 0.9064
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
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 563.8
Std Dev 550.7
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 26
Mean −0.005819
Std Dev 0.7926
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 30.15 / 25
p0 −29.05 ± 0.7885
pull
Entries 26
Mean 354.8
Std Dev 340.1
pull1D
Entries 26
Mean −0.006707
Std Dev 1.077


reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 15.48 / 25
p0 14.67 ± 1.021
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
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7763. 2
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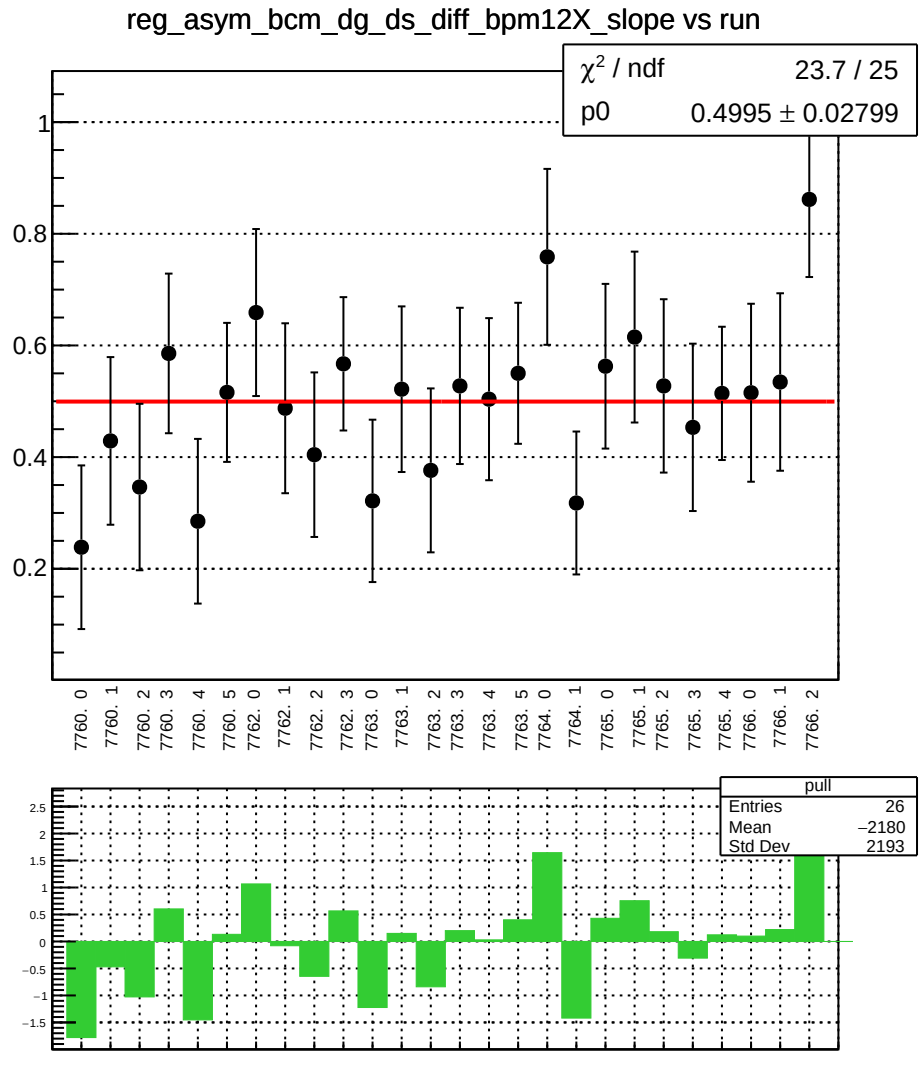
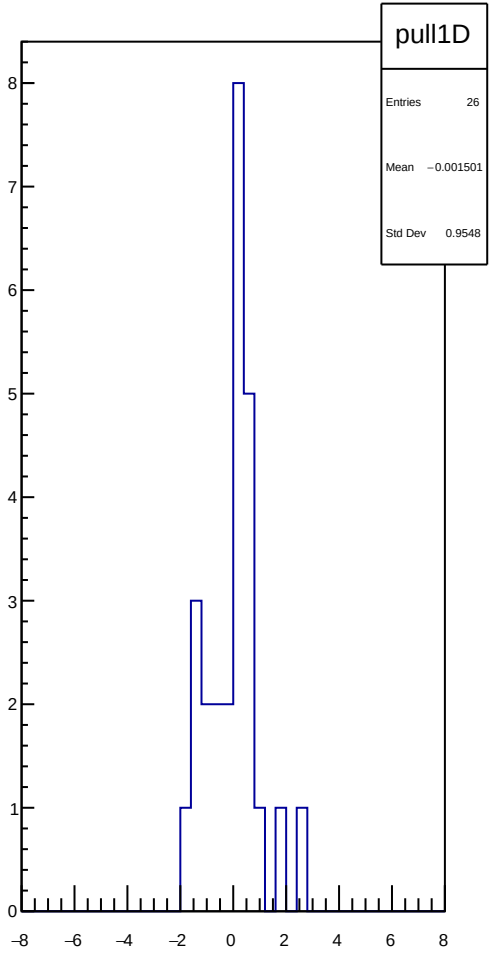
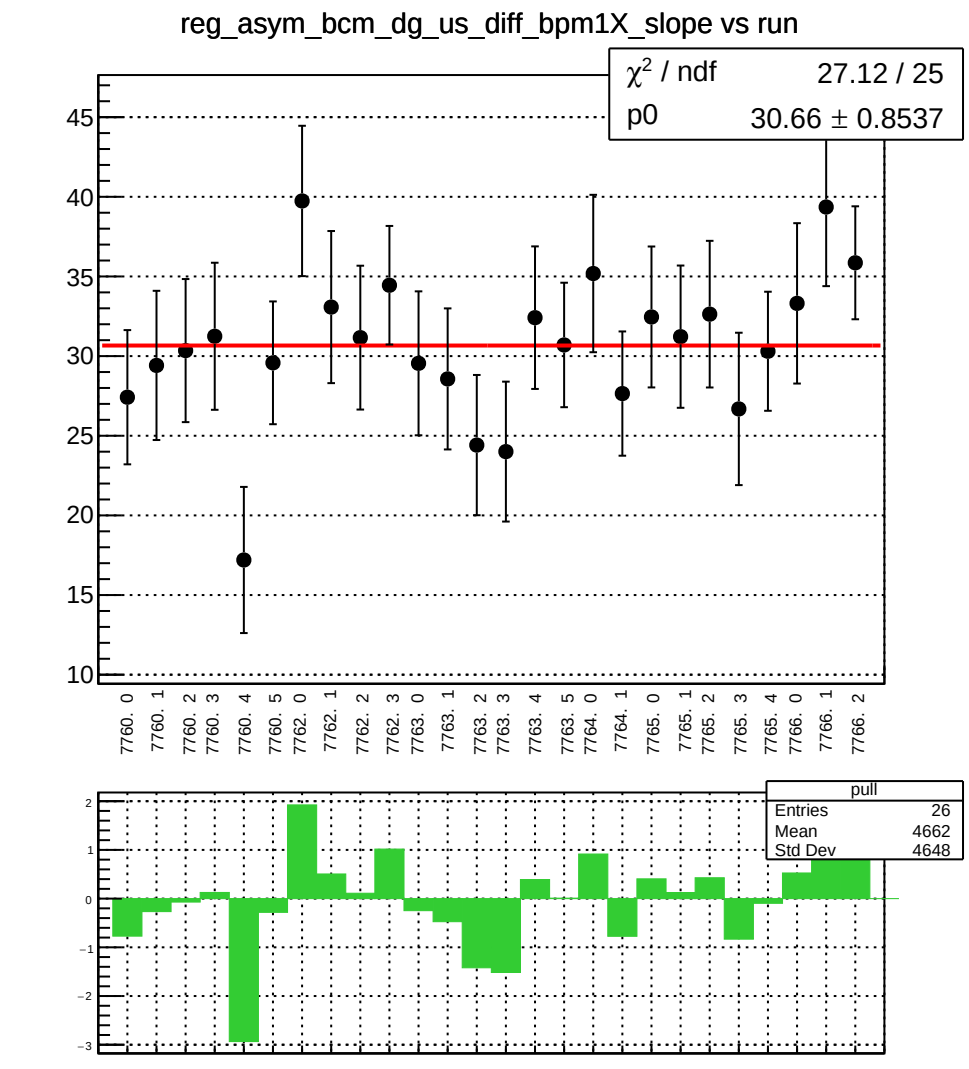
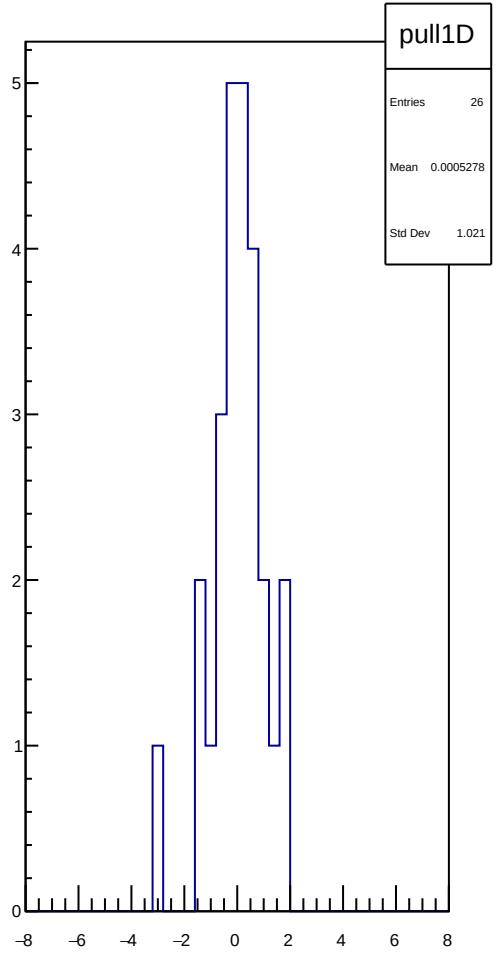
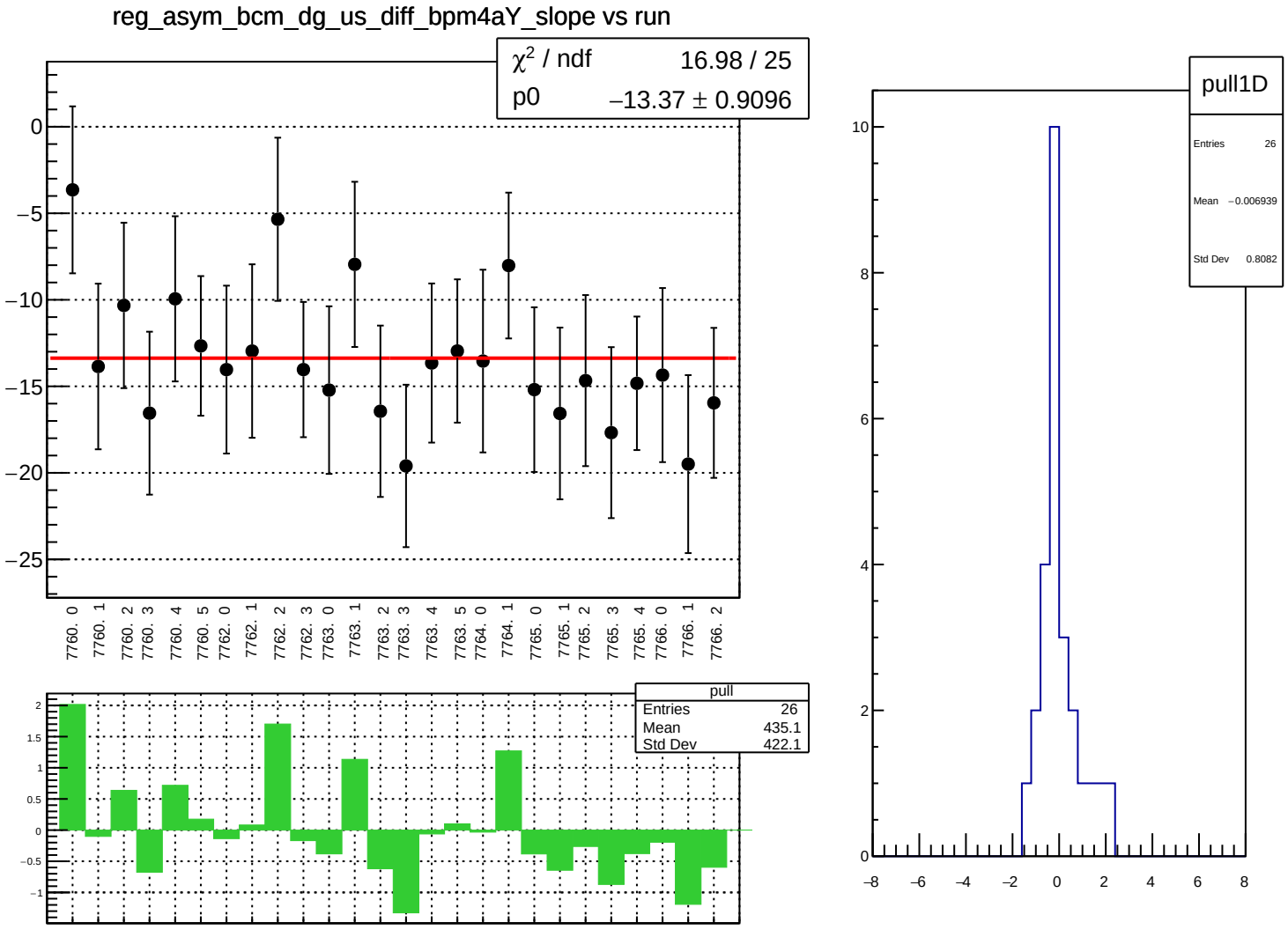
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 387.5
Std Dev 374.3
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 26
Mean 0.007877
Std Dev 0.7716
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

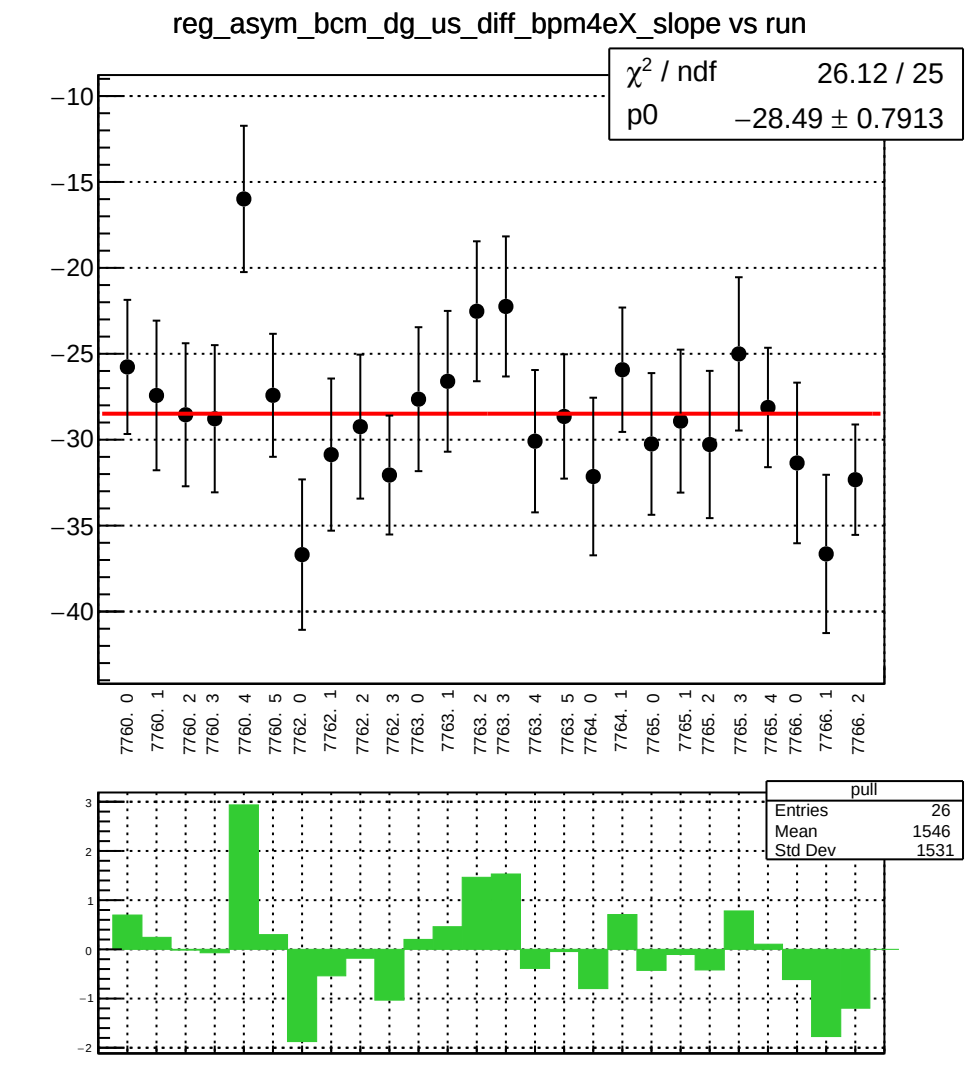

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 23.7 / 25
p0 0.4995 ± 0.02799
1
0.8
0.6
0.4
0.2
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −2180
Std Dev 2193
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

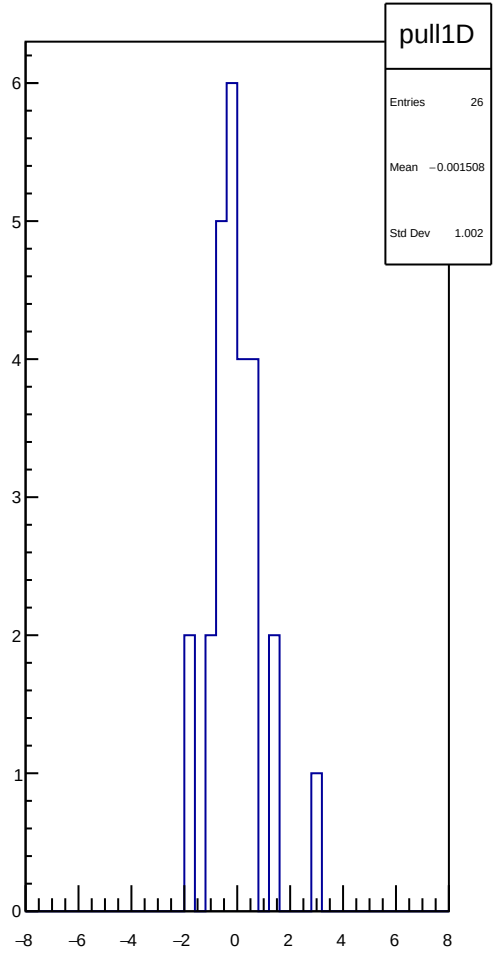

pull1D
Entries 26
Mean −0.001501
Std Dev 0.9548
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

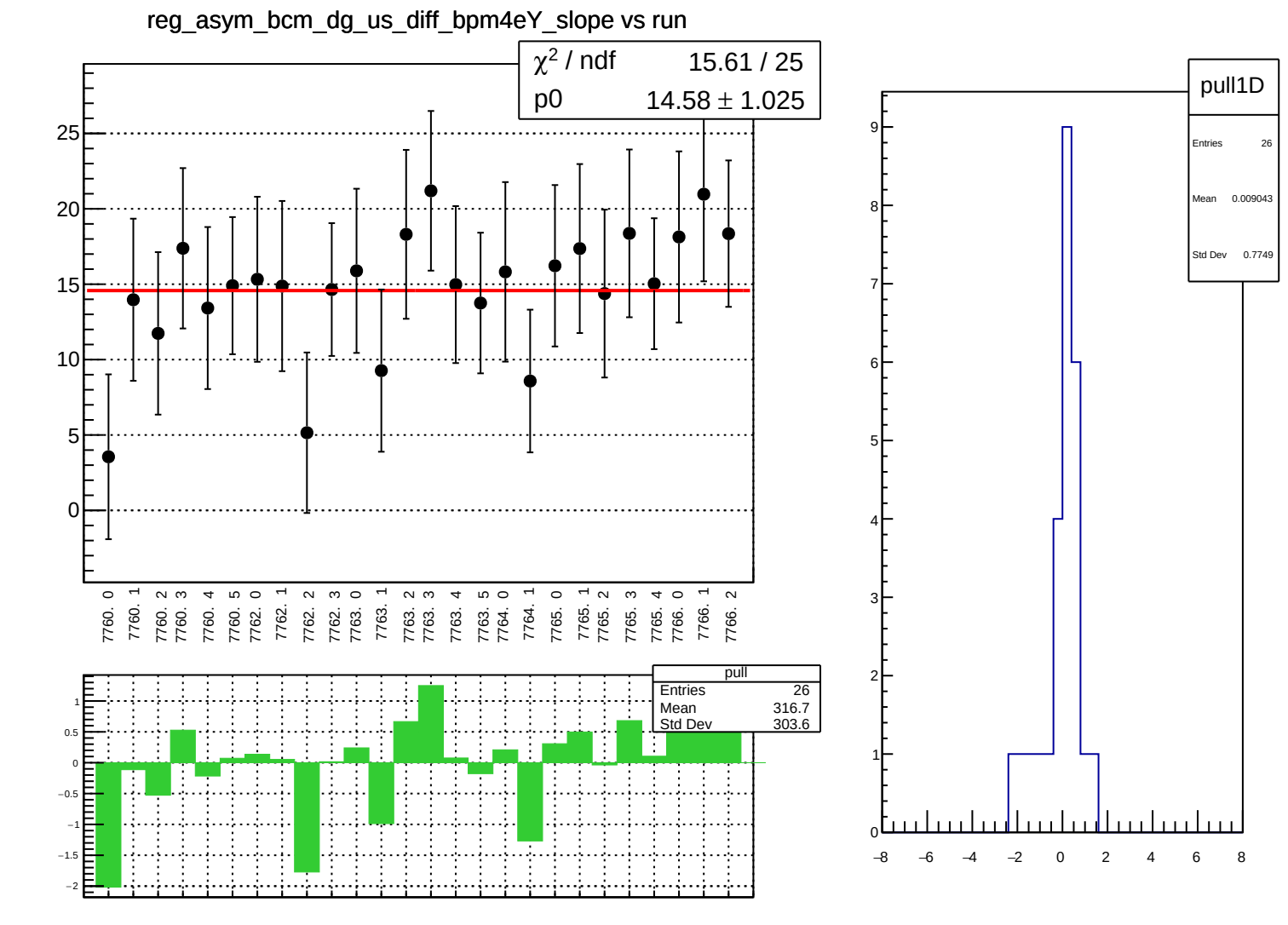

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 27.12 / 25
p0 30.66 ± 0.8537
45
40
35
30
25
20
15
10
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 4662
Std Dev 4648
2
1
0
−1
−2
−3

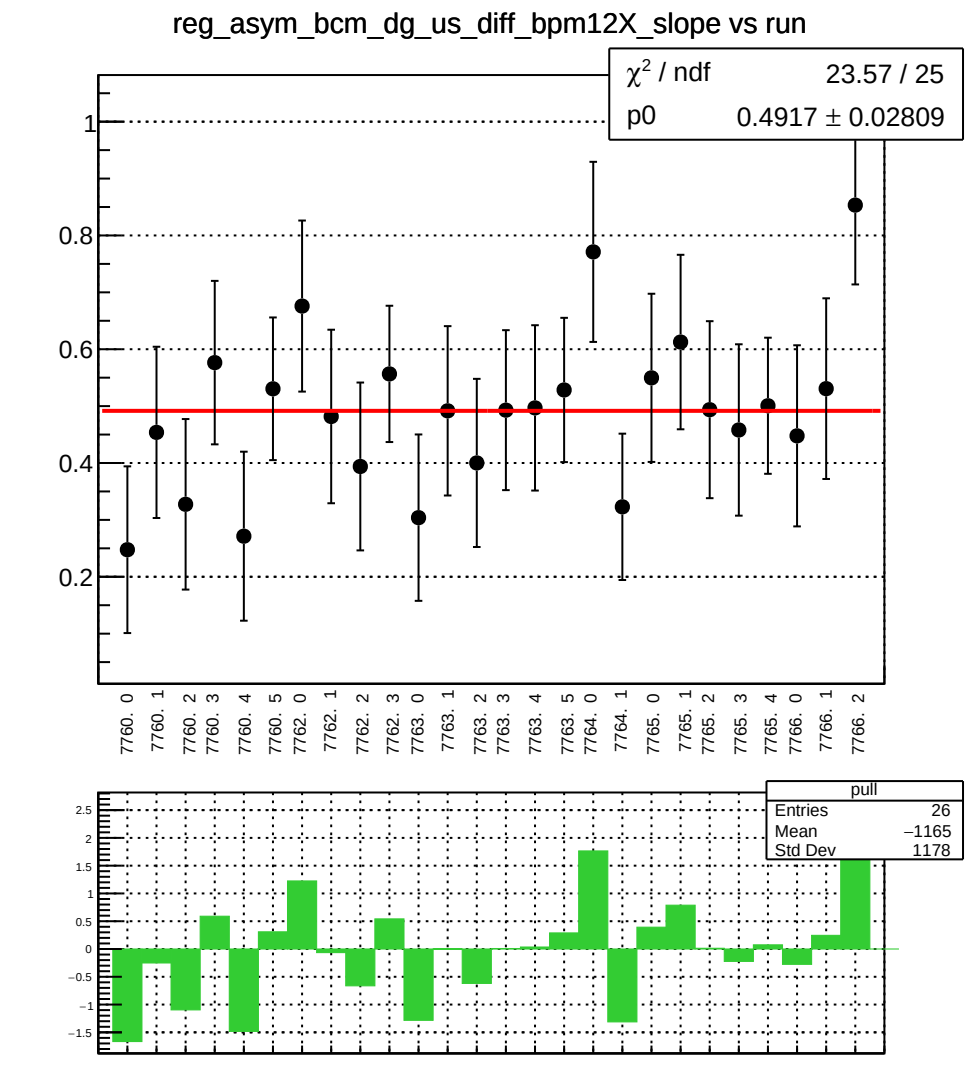

pull1D
Entries 26
Mean 0.0005278
Std Dev 1.021
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

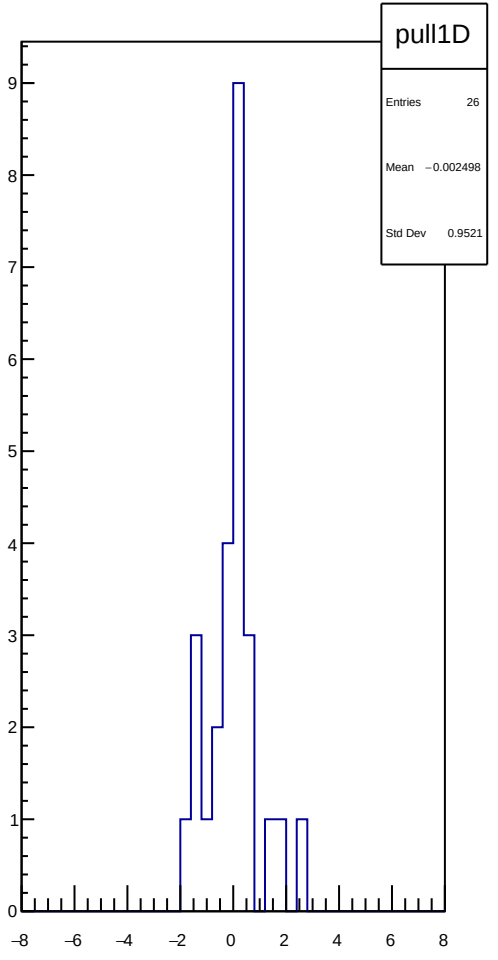

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 16.98 / 25
p0 −13.37 ± 0.9096
0
−5
−10
−15
−20
−25
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 435.1
Std Dev 422.1
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 26
Mean −0.006939
Std Dev 0.8082
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

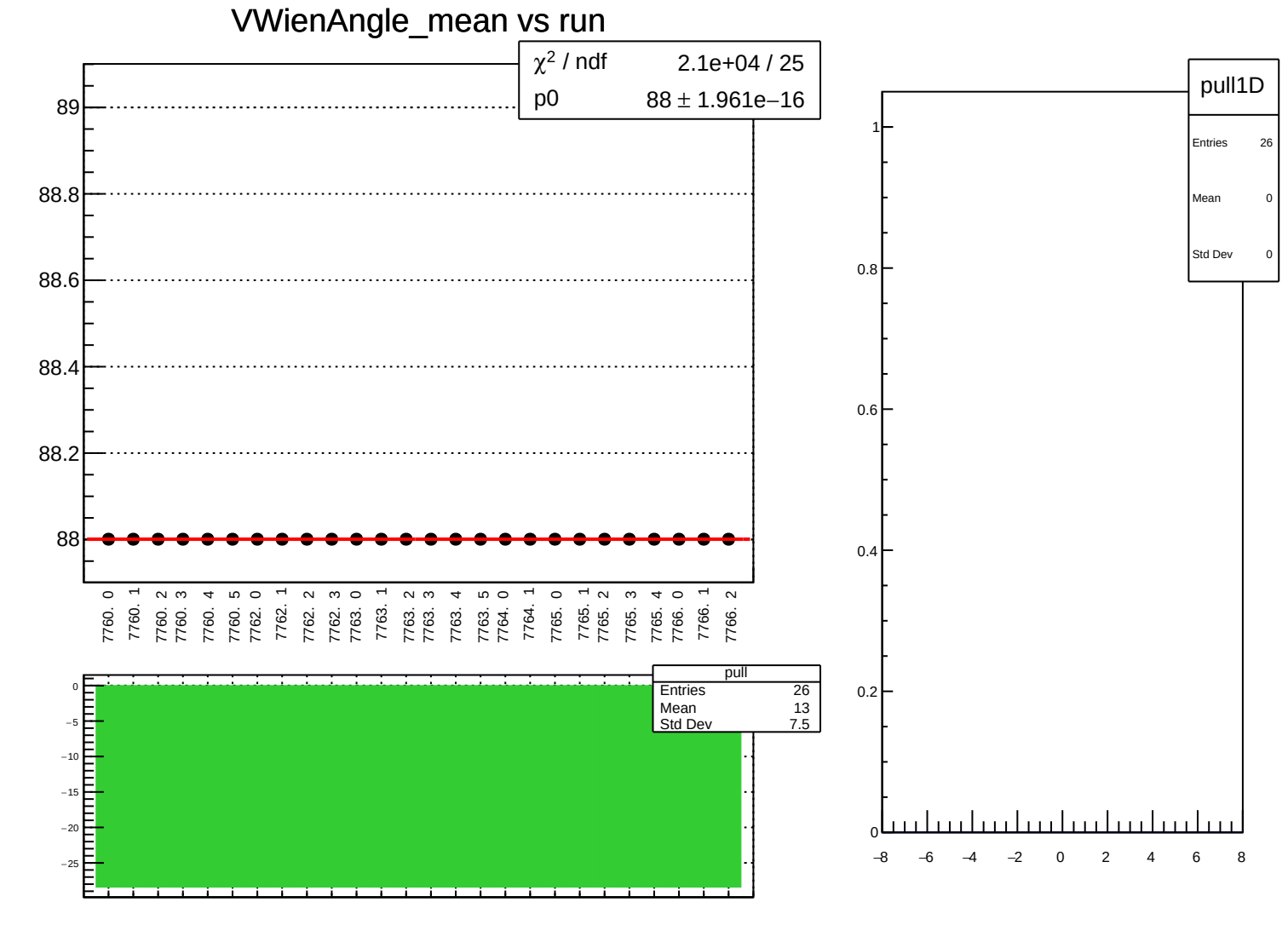

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 26.12 / 25
p0 −28.49 ± 0.7913
−10
−15
−20
−25
−30
−35
−40
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 1546
Std Dev 1531
3
2
1
0
−1
−2

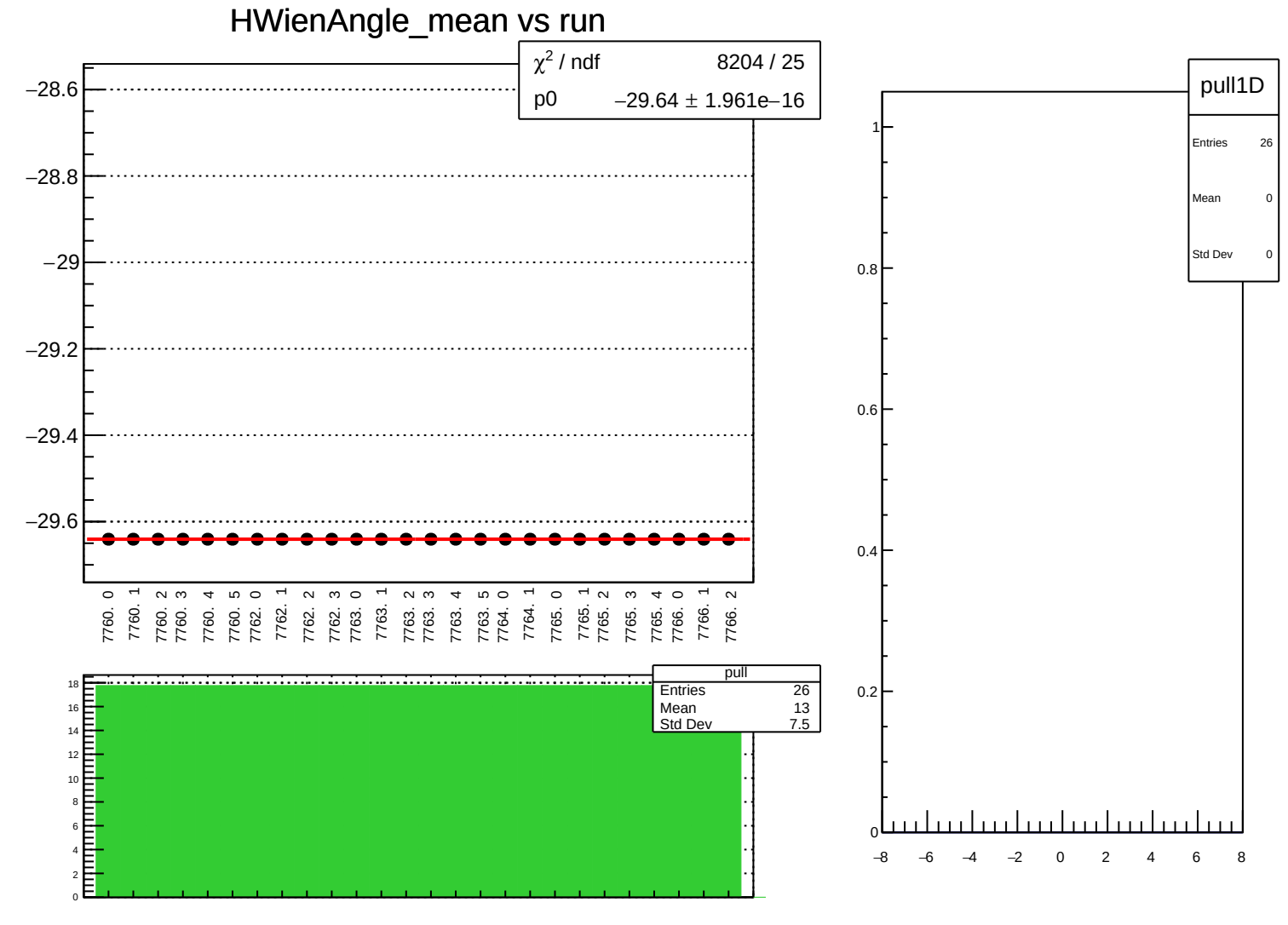

pull1D
Entries 26
Mean −0.001508
Std Dev 1.002
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

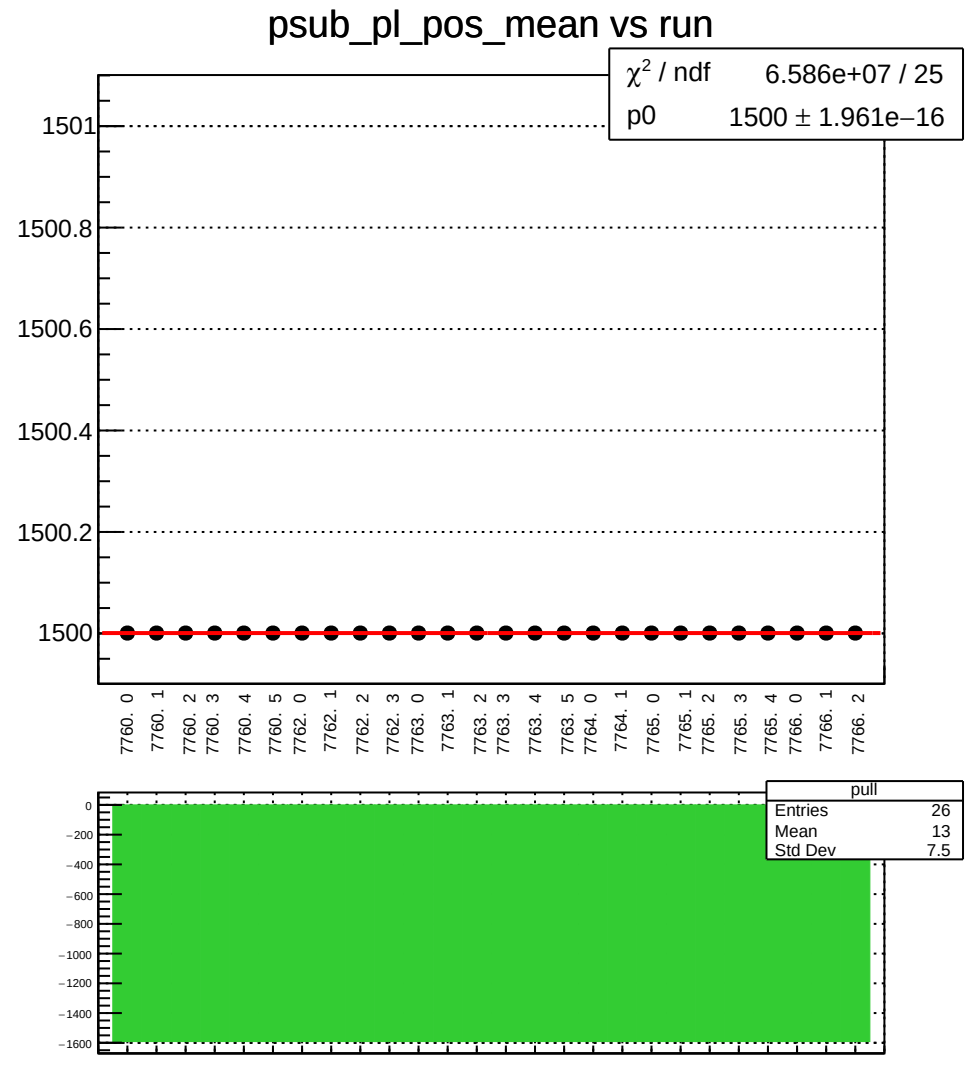

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 15.61 / 25
p0 14.58 ± 1.025
25
20
15
10
5
0
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 316.7
Std Dev 303.6
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 26
Mean 0.009043
Std Dev 0.7749
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

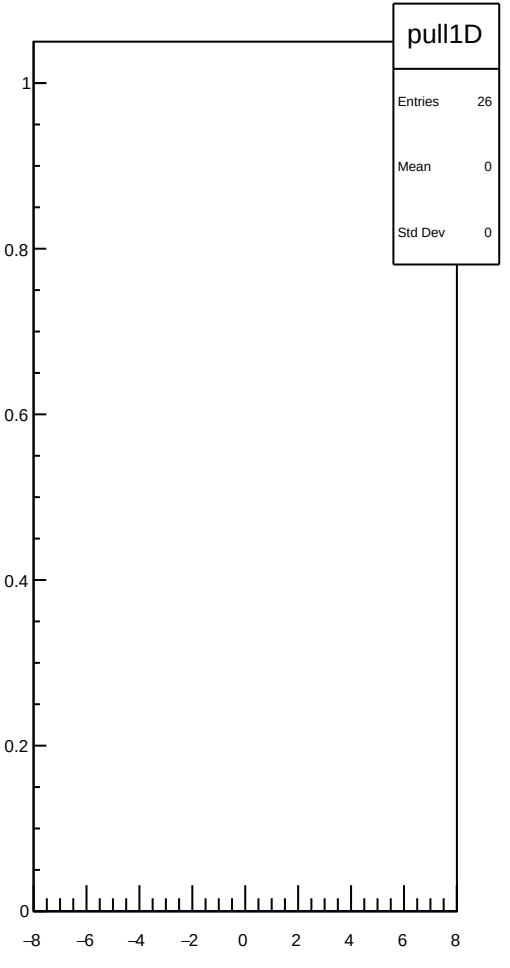

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 23.57 / 25
p0 0.4917 ± 0.02809
1
0.8
0.6
0.4
0.2
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean −1165
Std Dev 1178
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

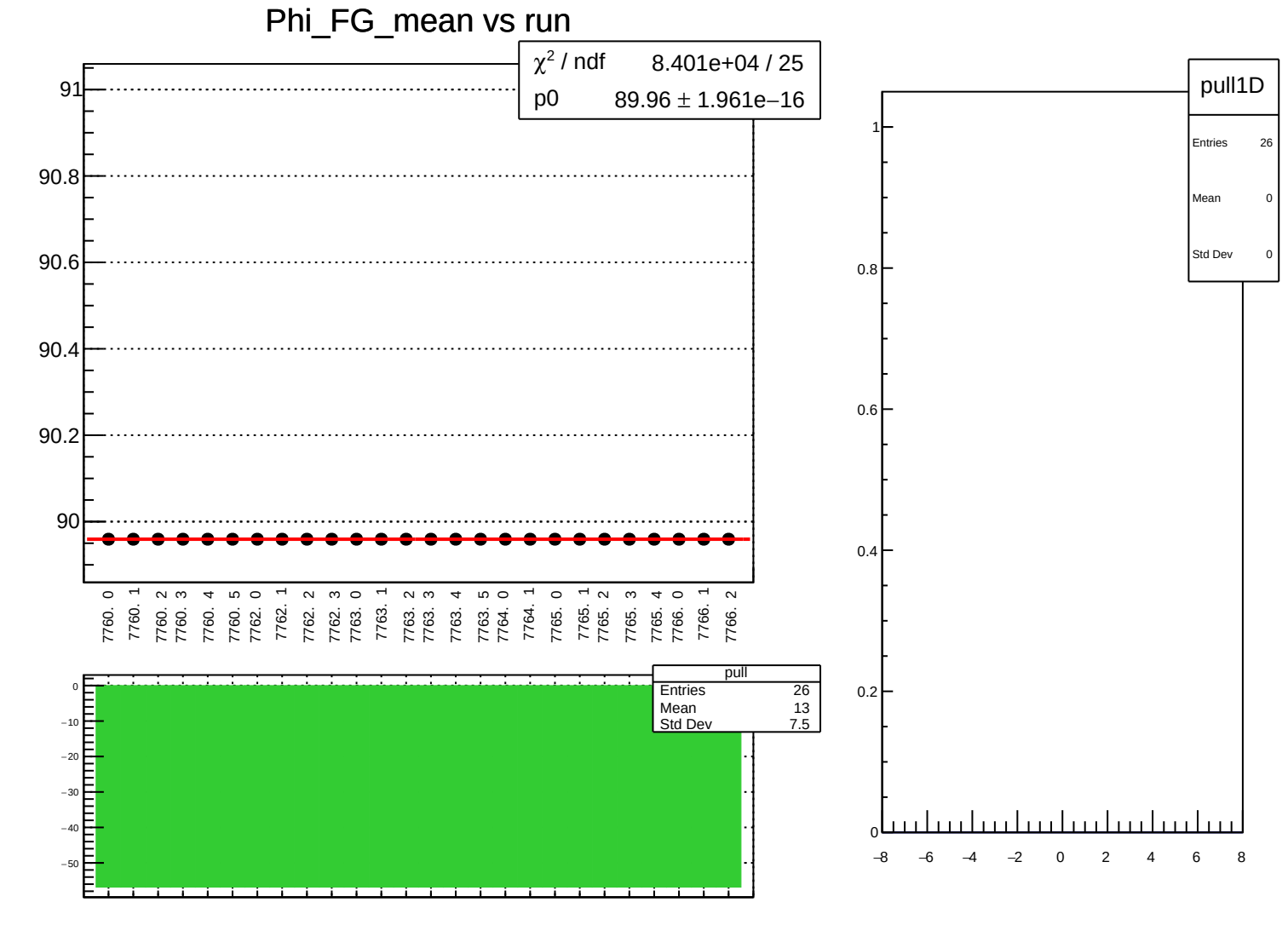

pull1D
Entries 26
Mean −0.002498
Std Dev 0.9521
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

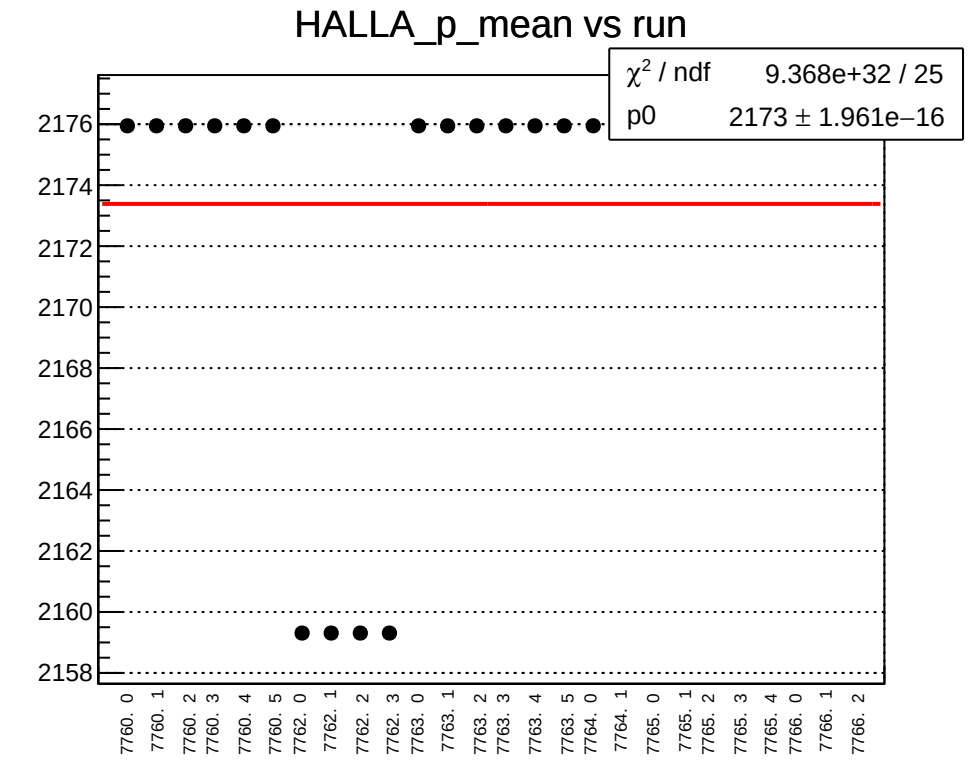

VWienAngle_mean vs run
χ² / ndf 2.1e+04 / 25
p0 88 ± 1.961e−16
89
88.8
88.6
88.4
88.2
88
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 13
Std Dev 7.5
0
−5
−10
−15
−20
−25
pull1D
Entries 26
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

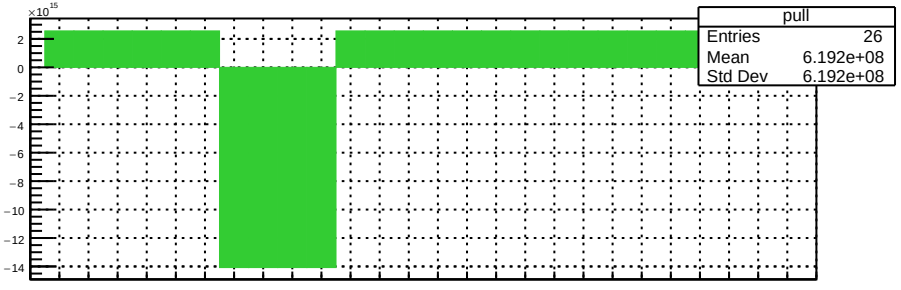

HWienAngle_mean vs run
χ² / ndf 8204 / 25
p0 −29.64 ± 1.961e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 13
Std Dev 7.5
pull1D
Entries 26
Mean 0
Std Dev 0

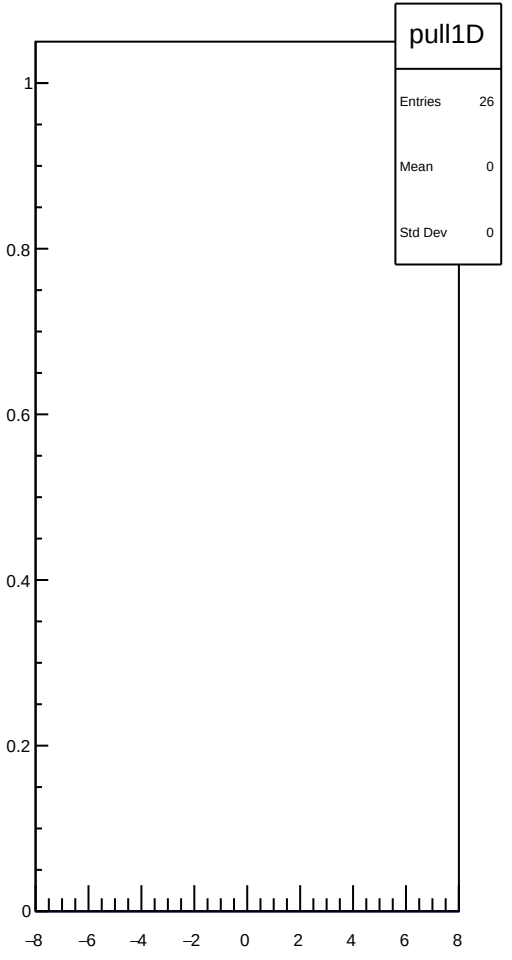

psub_pl_pos_mean vs run
χ² / ndf 6.586e+07 / 25
p0 1500 ± 1.961e−16
1501
1500.8
1500.6
1500.4
1500.2
1500
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 13
Std Dev 7.5
0
−200
−400
−600
−800
−1000
−1200
−1400
−1600

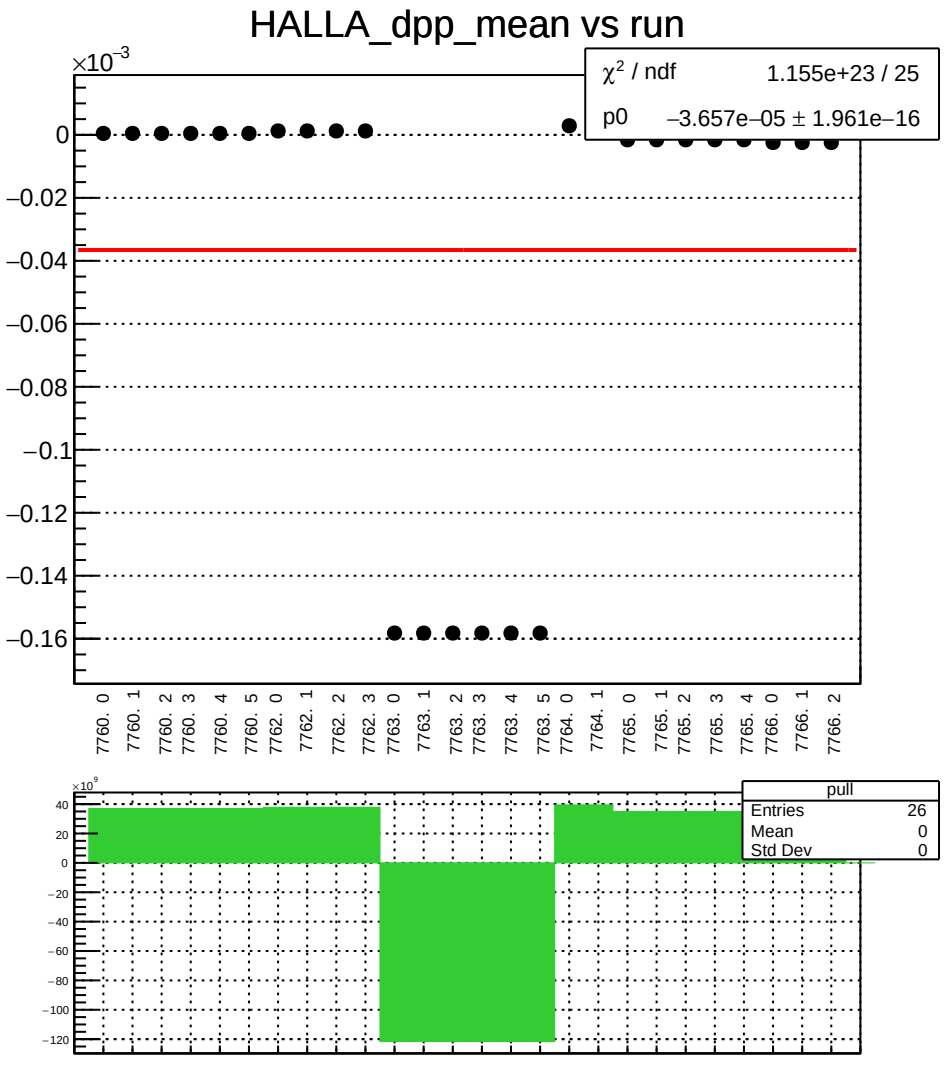

pull1D
Entries 26
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

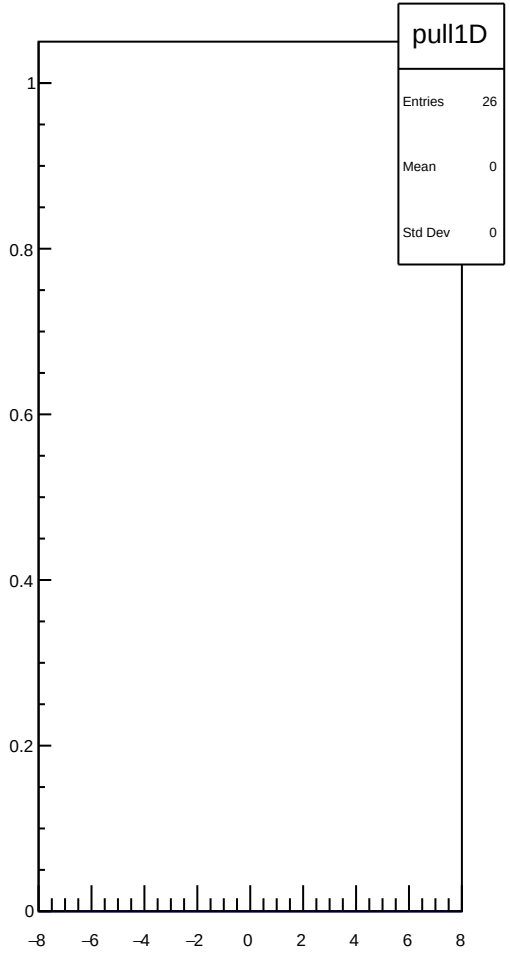

Phi_FG_mean vs run
χ² / ndf 8.401e+04 / 25
p0 89.96 ± 1.961e−16
91
90.8
90.6
90.4
90.2
90
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 13
Std Dev 7.5
0
−10
−20
−30
−40
−50
pull1D
Entries 26
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

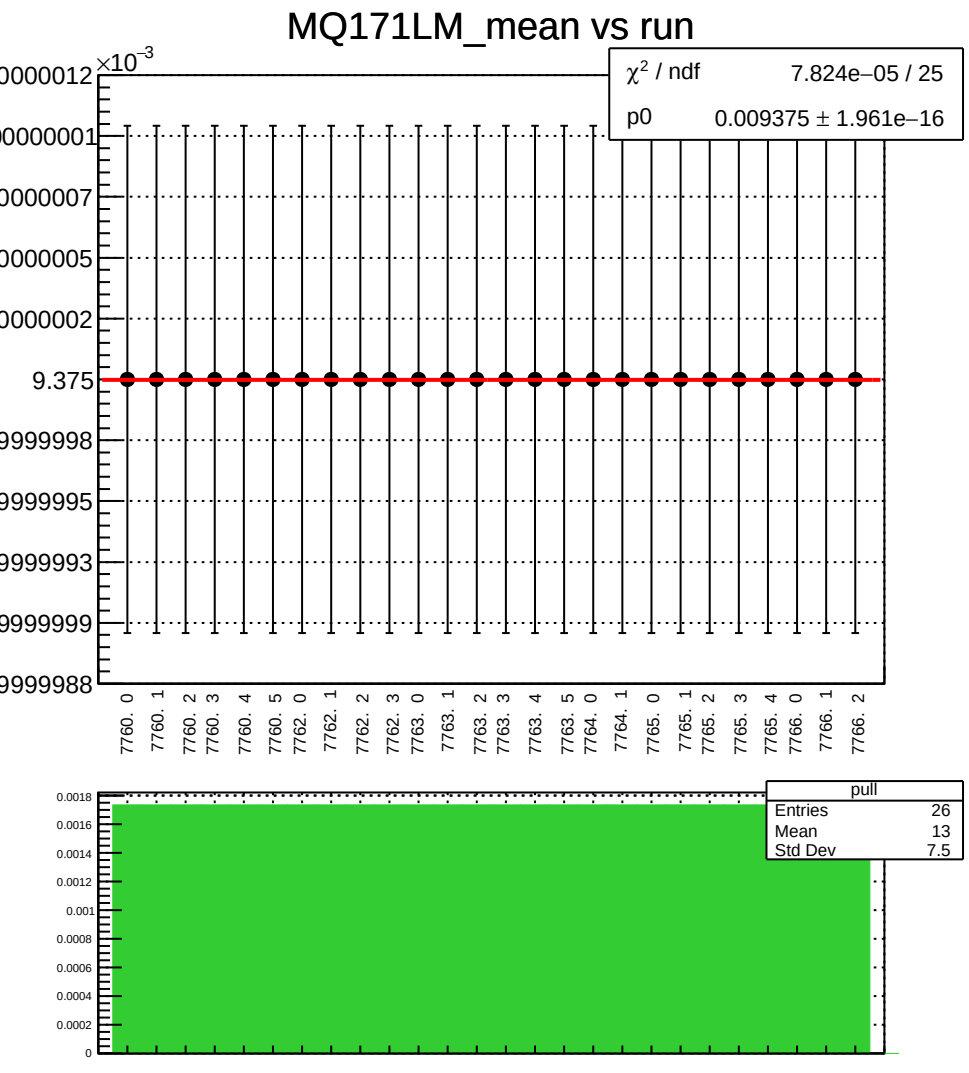

HALLA_p_mean vs run
χ² / ndf 9.368e+32 / 25
p0 2173 ± 1.961e−16
2176
2174
2172
2170
2168
2166
2164
2162
2160
2158
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

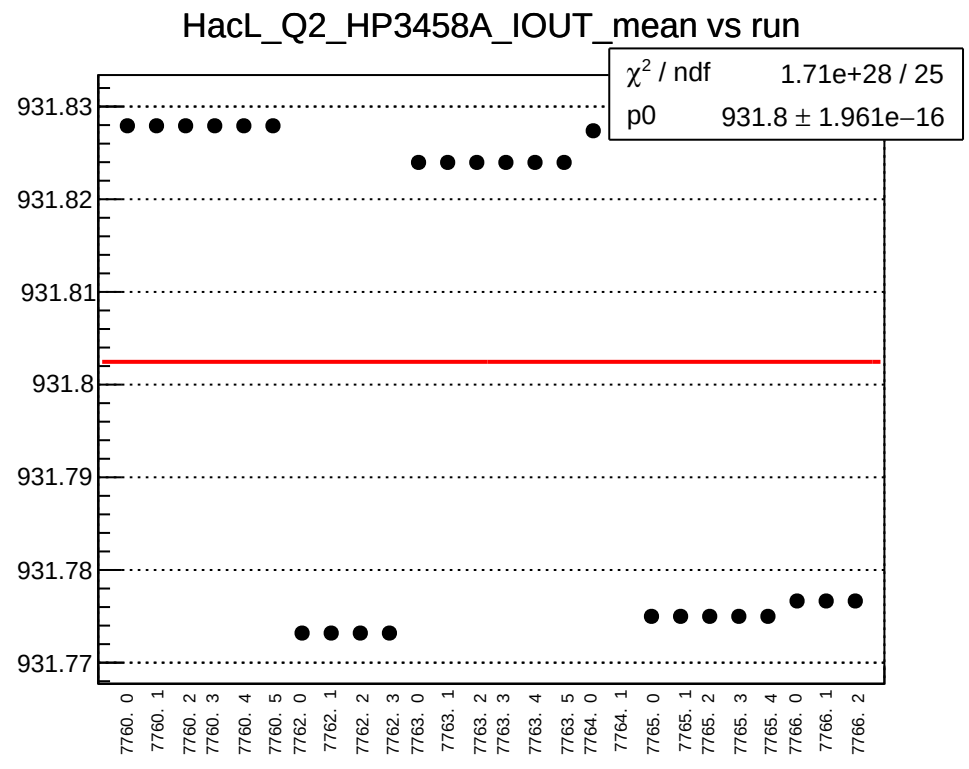

×10¹⁵
2
0
−2
−4
−6
−8
−10
−12
−14
pull
Entries 26
Mean 6.192e+08
Std Dev 6.192e+08

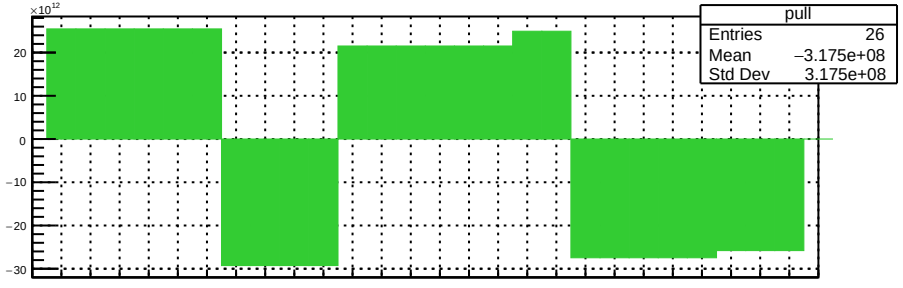

pull1D
Entries 26
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

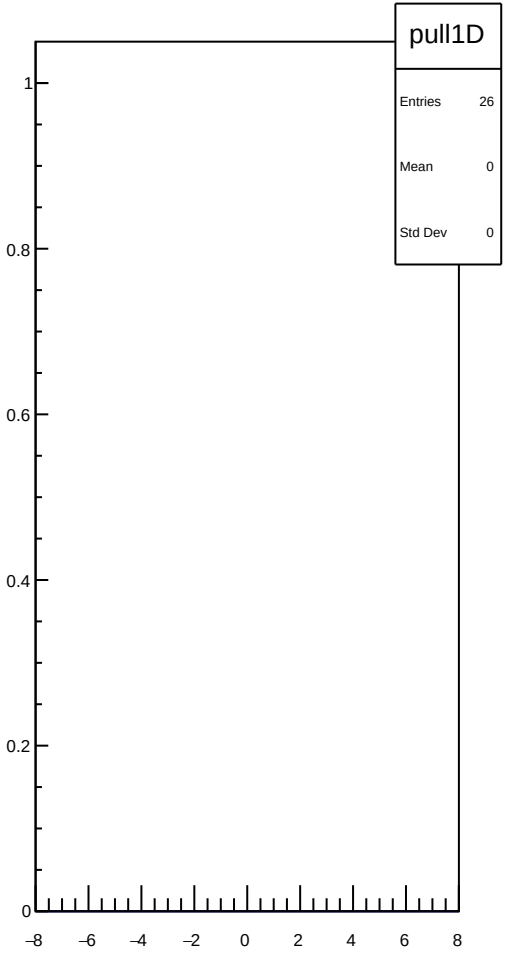

HALLA_dpp_mean vs run
χ² / ndf 1.155e+23 / 25
p0 −3.657e−05 ± 1.961e−16
pull
Entries 26
Mean 0
Std Dev 0

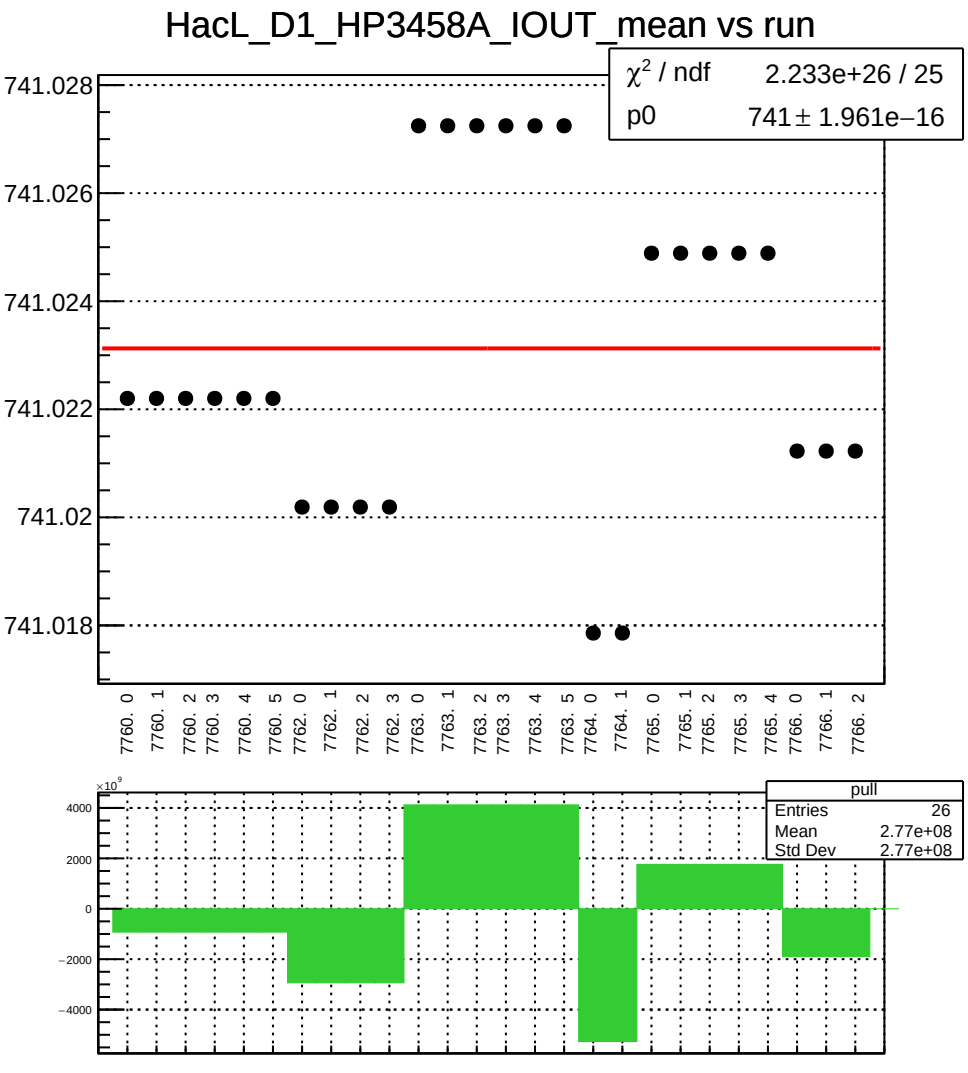

pull1D
Entries 26
Mean 0
Std Dev 0

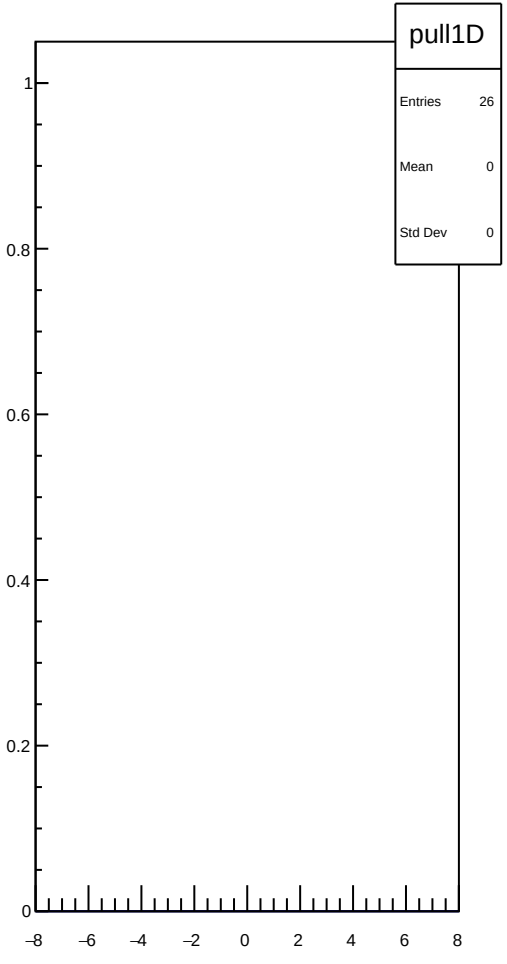

MQ171LM_mean vs run
×10⁻³
χ² / ndf 7.824e−05 / 25
p0 0.009375 ± 1.961e−16
0000012
0000001
0000007
0000005
0000002
9.375
9999998
9999995
9999993
9999999
9999988
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 13
Std Dev 7.5
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
0
pull1D
Entries 26
Mean 0.001735
Std Dev4.116e−11
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

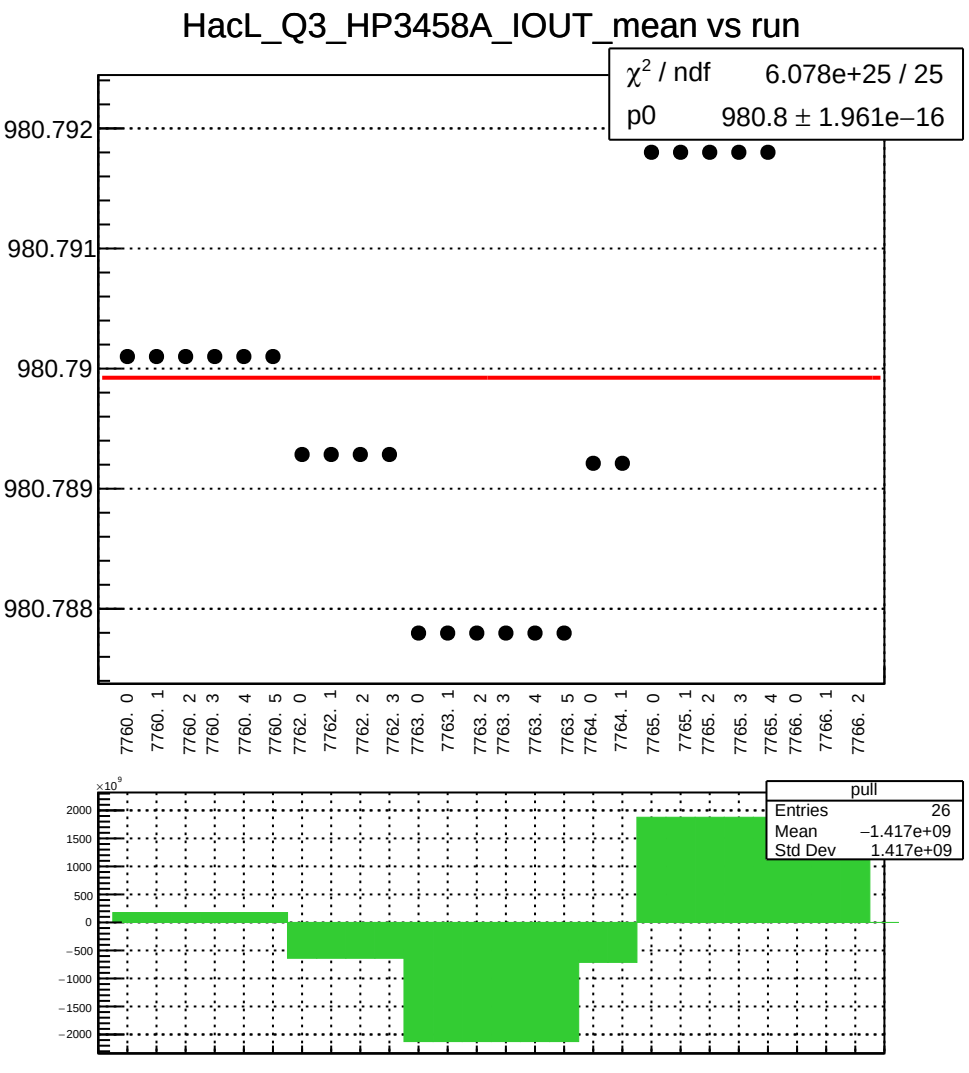

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 1.71e+28 / 25
p0 931.8 ± 1.961e−16
931.83
931.82
931.81
931.8
931.79
931.78
931.77
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

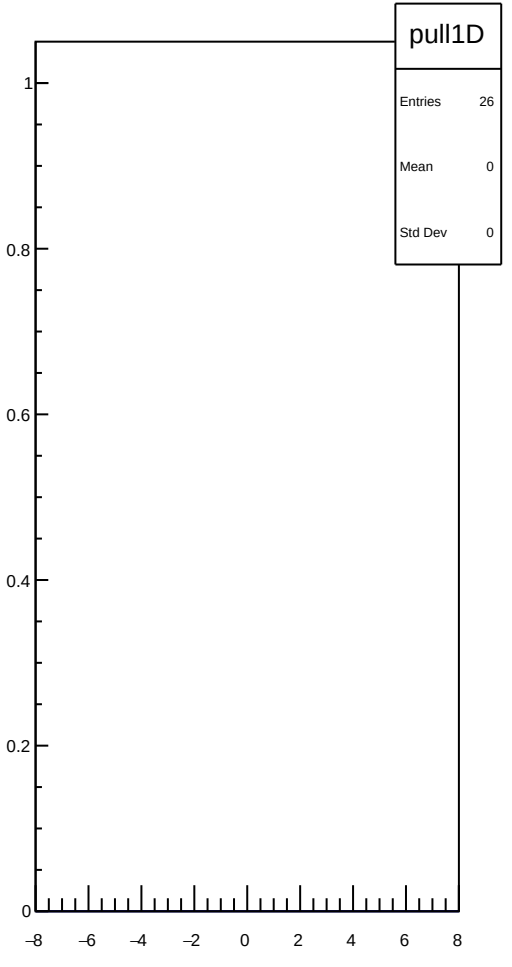

×10¹²
20
10
0
−10
−20
−30
pull
Entries 26
Mean −3.175e+08
Std Dev 3.175e+08

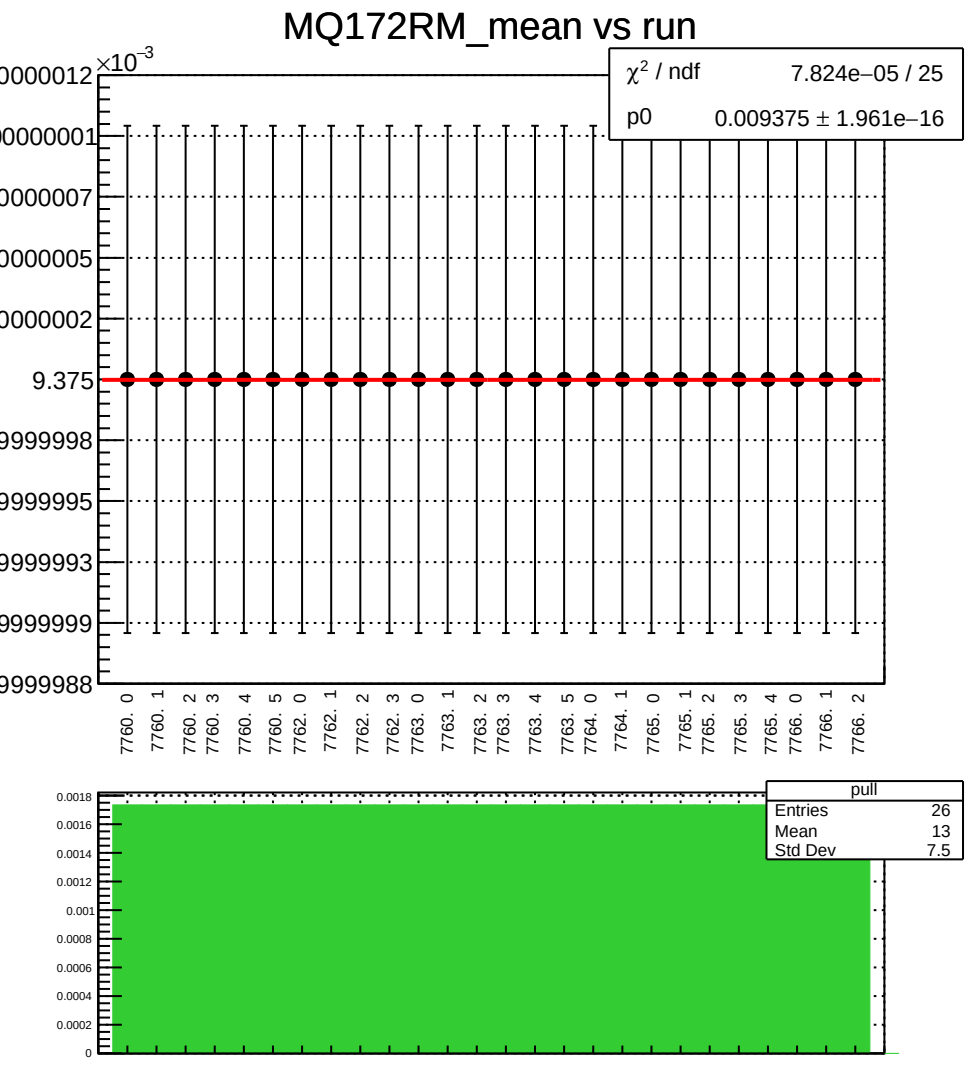

pull1D
Entries 26
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

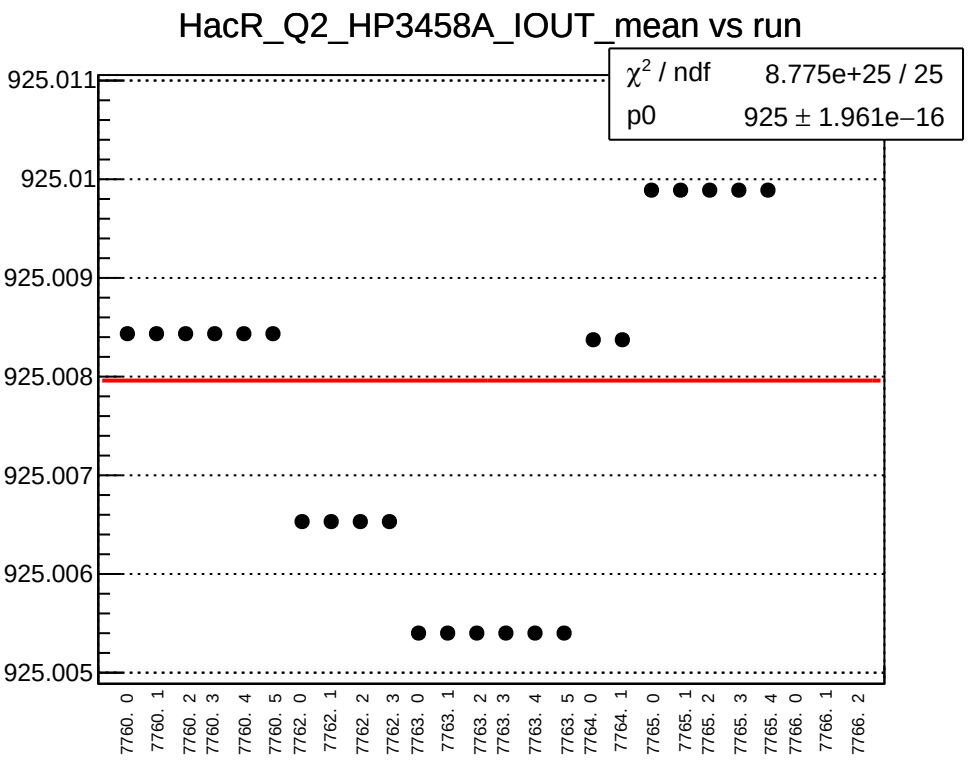

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 2.233e+26 / 25
p0 741 ± 1.961e−16
741.028
741.026
741.024
741.022
741.02
741.018
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
×10⁹
4000
2000
0
−2000
−4000
pull
Entries 26
Mean 2.77e+08
Std Dev 2.77e+08

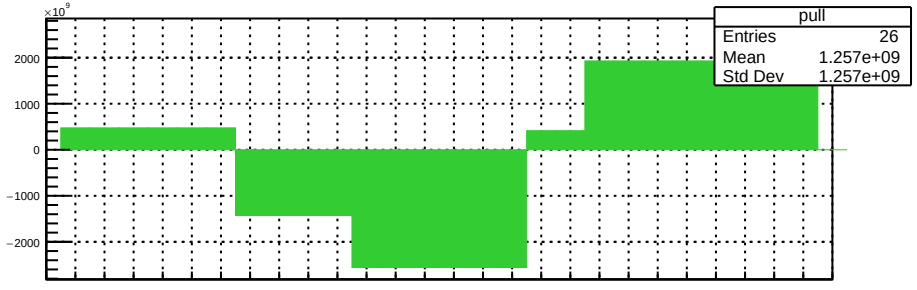

pull1D
Entries 26
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

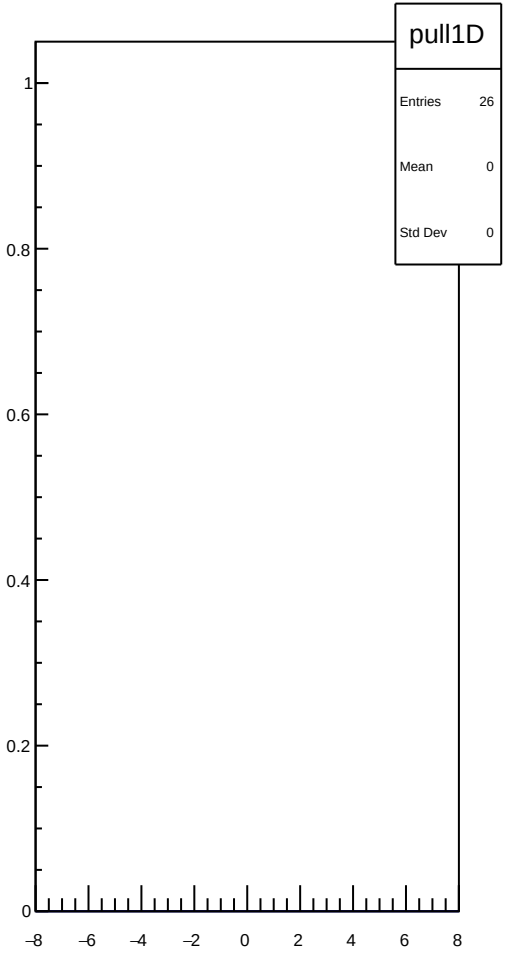

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 6.078e+25 / 25
p0 980.8 ± 1.961e−16
980.792
980.791
980.79
980.789
980.788
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
×10⁹
2000
1500
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 26
Mean −1.417e+09
Std Dev 1.417e+09

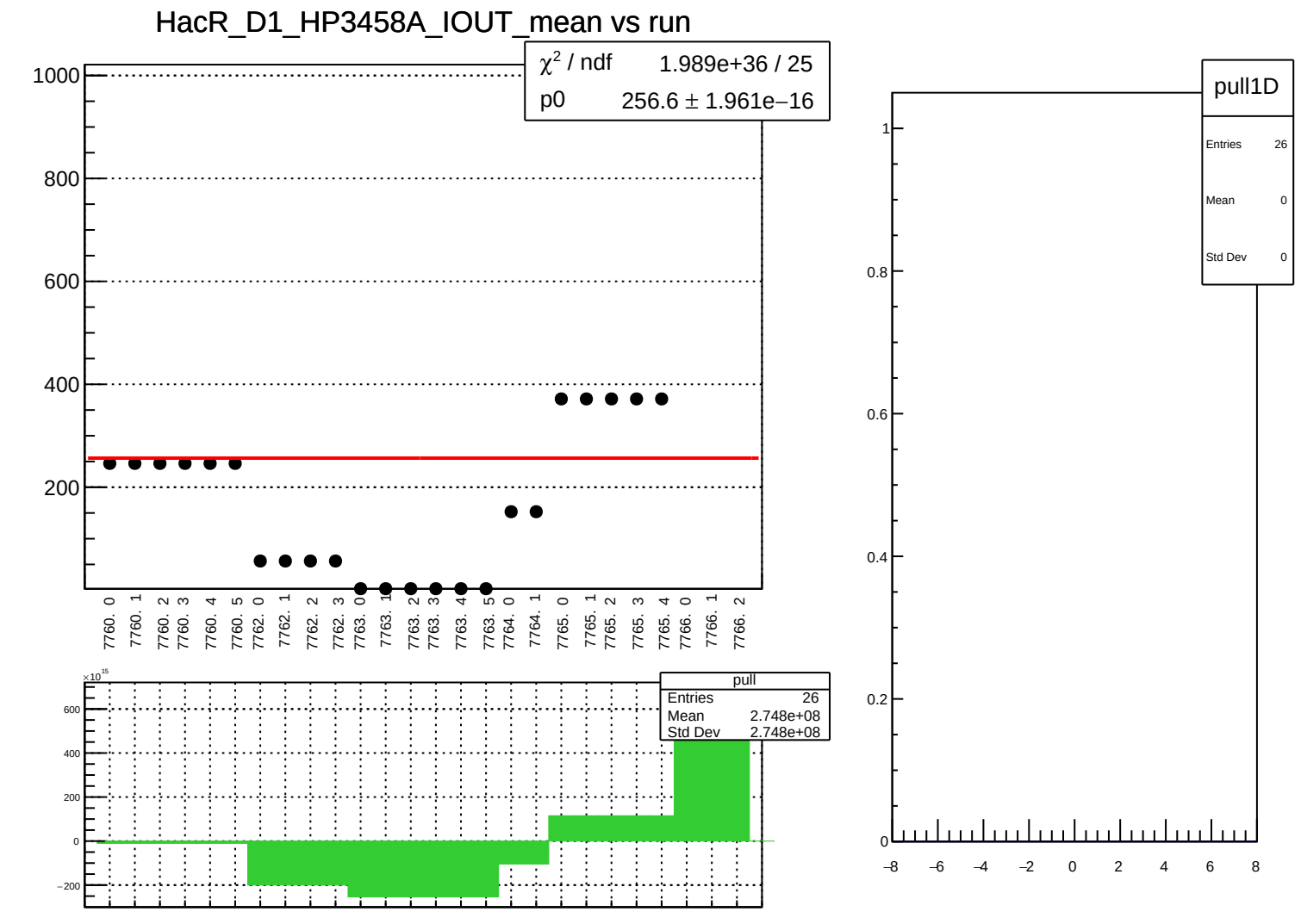

pull1D
Entries 26
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

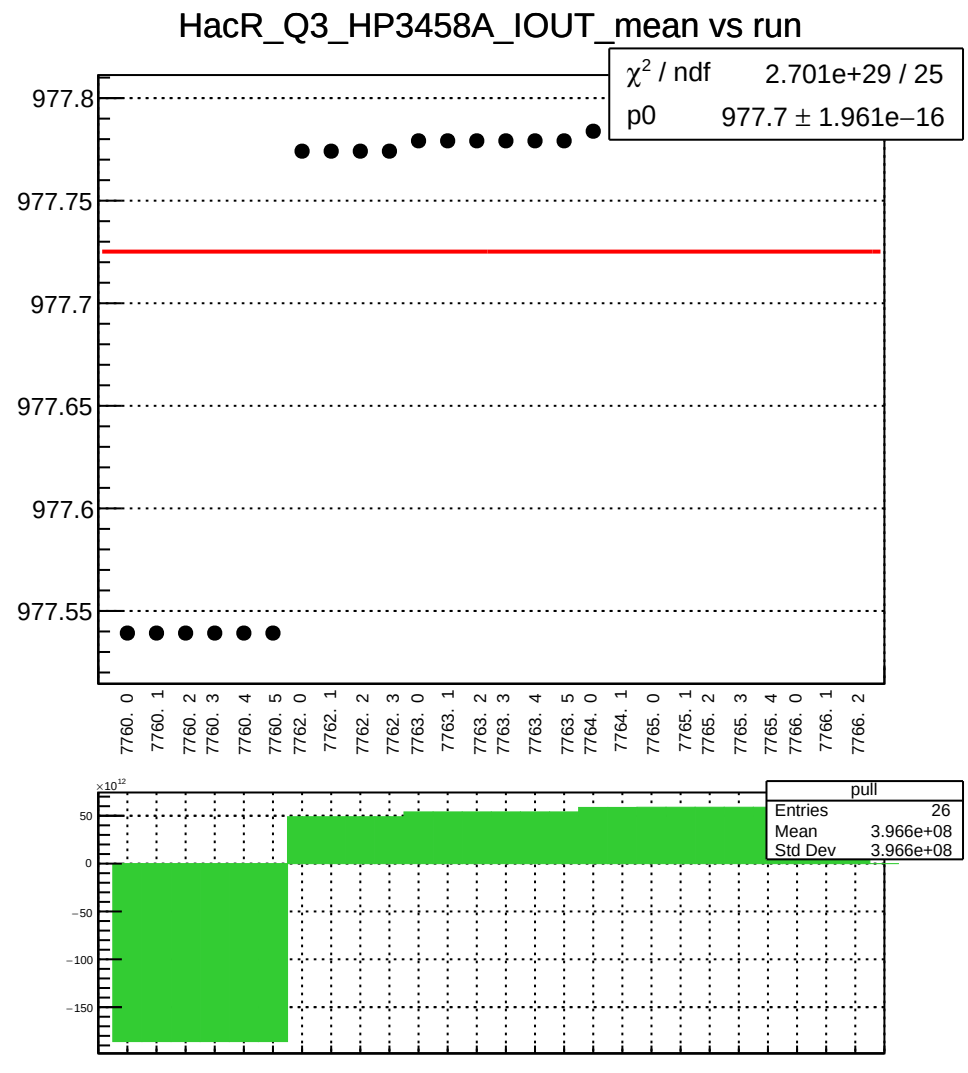

MQ172RM_mean vs run
χ² / ndf 7.824e−05 / 25
p0 0.009375 ± 1.961e−16
×10⁻³
0000012
0000001
0000007
0000005
0000002
9.375
9999998
9999995
9999993
9999999
9999988
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 13
Std Dev 7.5
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
0
pull1D
Entries 26
Mean 0.001735
Std Dev4.116e−11
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

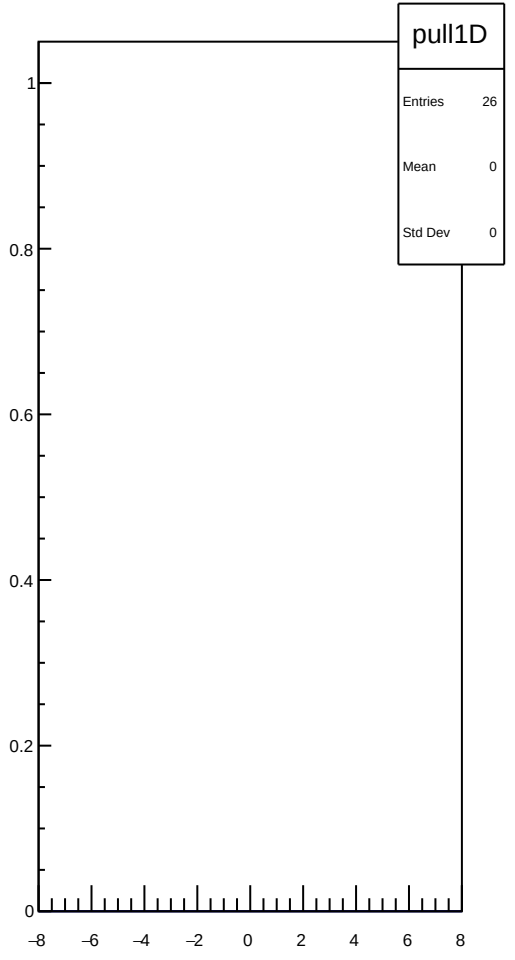

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 8.775e+25 / 25
p0 925 ± 1.961e−16
925.011
925.01
925.009
925.008
925.007
925.006
925.005
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

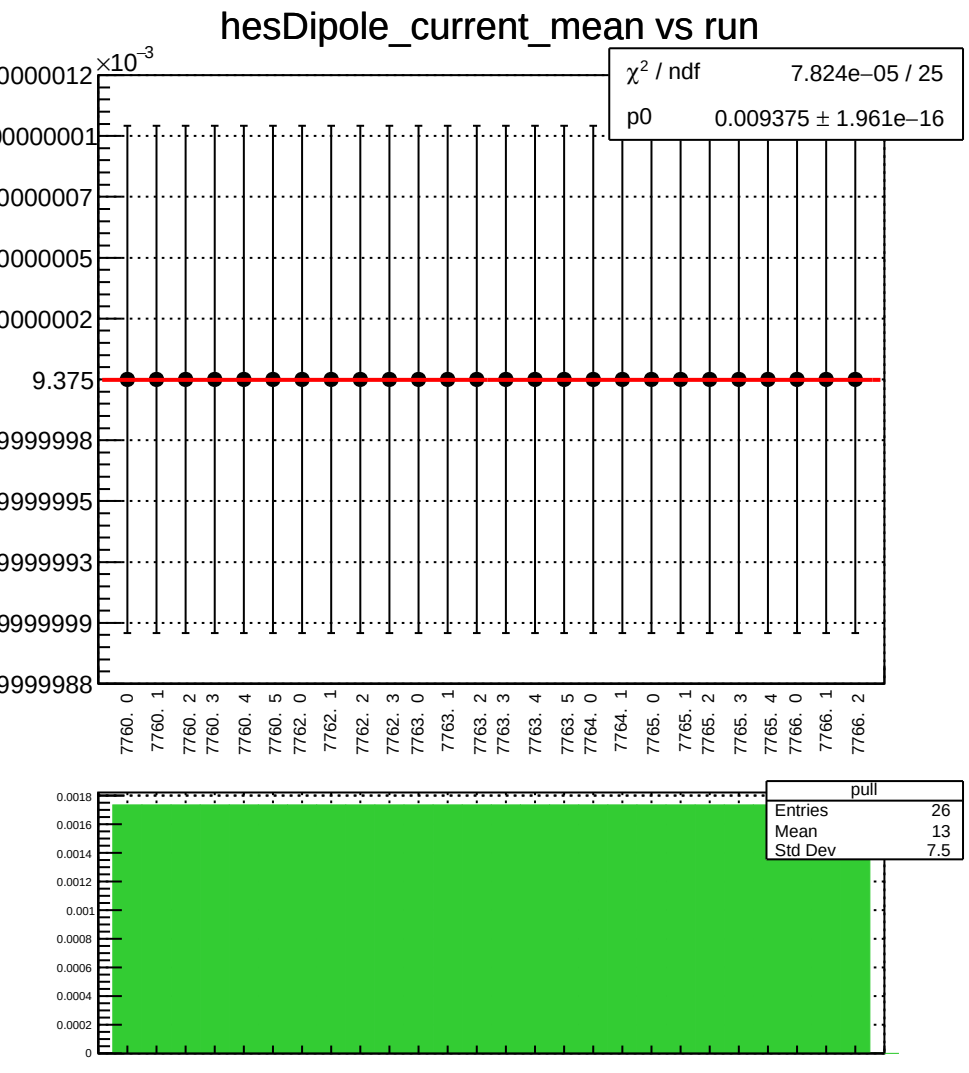

×10⁹
2000
1000
0
−1000
−2000
pull
Entries 26
Mean 1.257e+09
Std Dev 1.257e+09

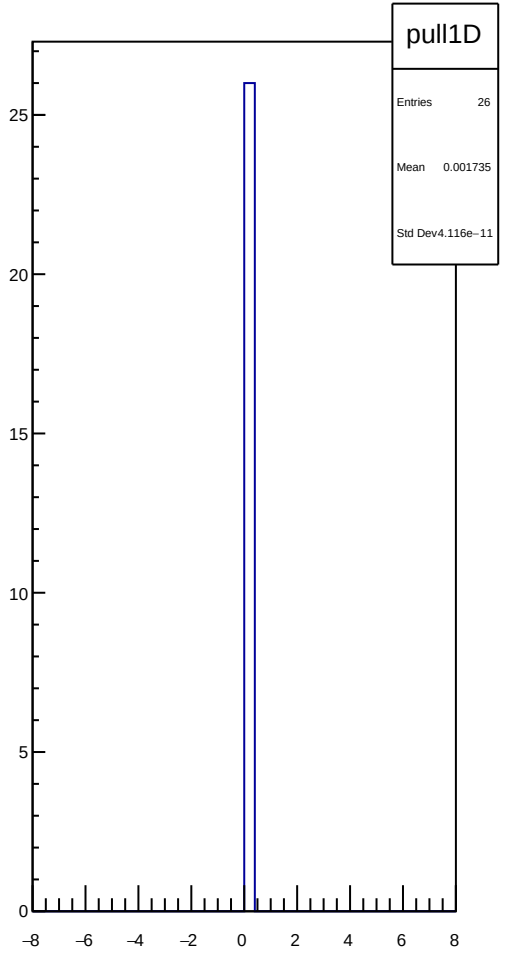

pull1D
Entries 26
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

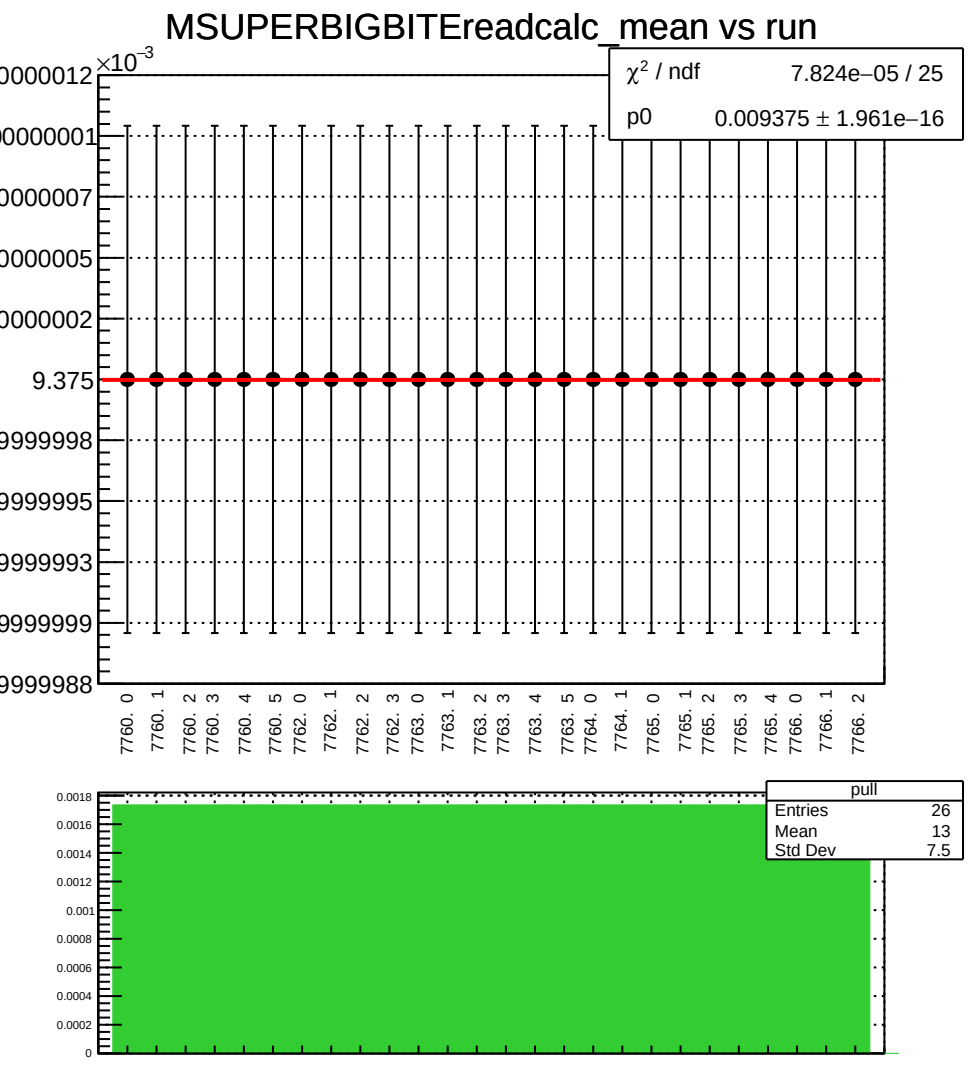

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 1.989e+36 / 25
p0 256.6 ± 1.961e−16
1000
800
600
400
200
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
×10¹⁵
600
400
200
0
−200
pull
Entries 26
Mean 2.748e+08
Std Dev 2.748e+08
pull1D
Entries 26
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

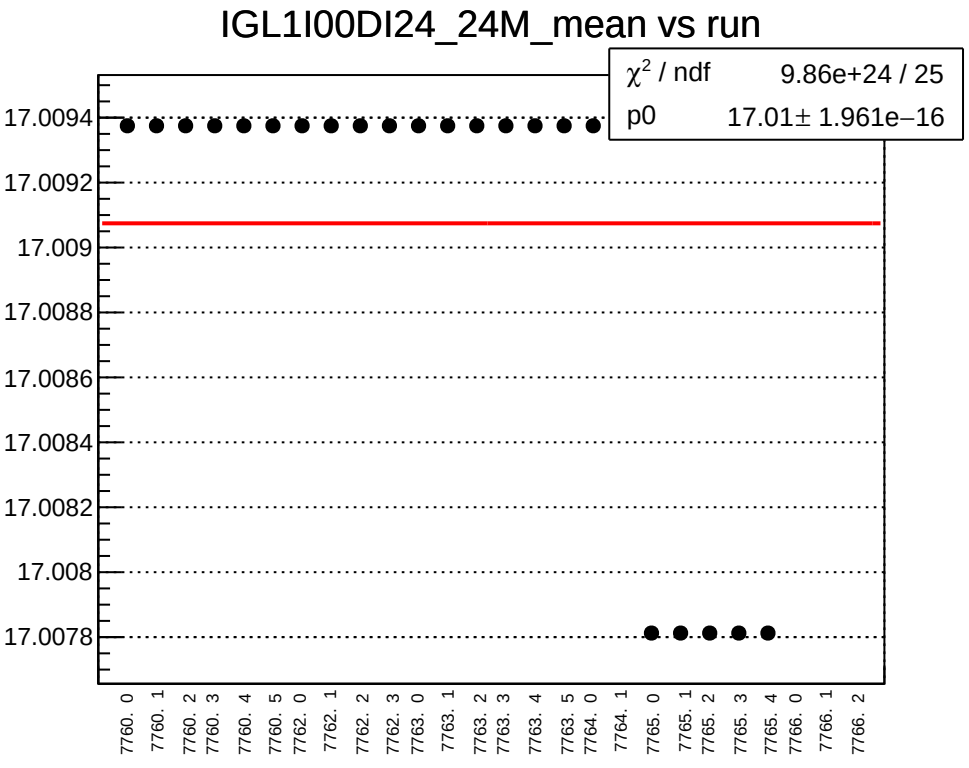

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 2.701e+29 / 25
p0 977.7 ± 1.961e−16
977.8
977.75
977.7
977.65
977.6
977.55
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
×10¹²
50
0
−50
−100
−150
pull
Entries 26
Mean 3.966e+08
Std Dev 3.966e+08

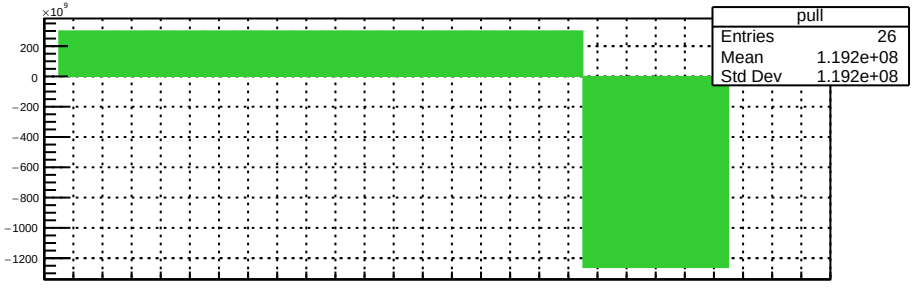

pull1D
Entries 26
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

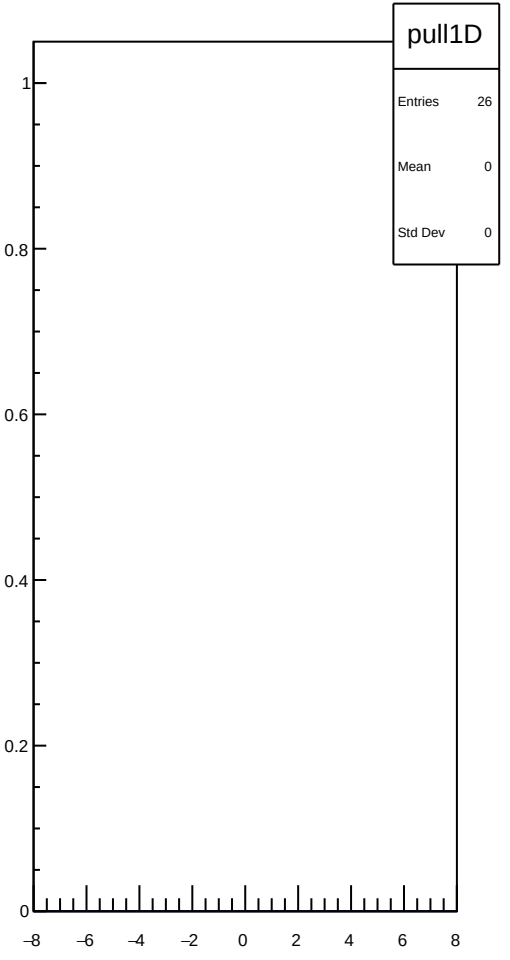

hesDipole_current_mean vs run
×10⁻³
χ² / ndf 7.824e−05 / 25
p0 0.009375 ± 1.961e−16
9.375
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 13
Std Dev 7.5

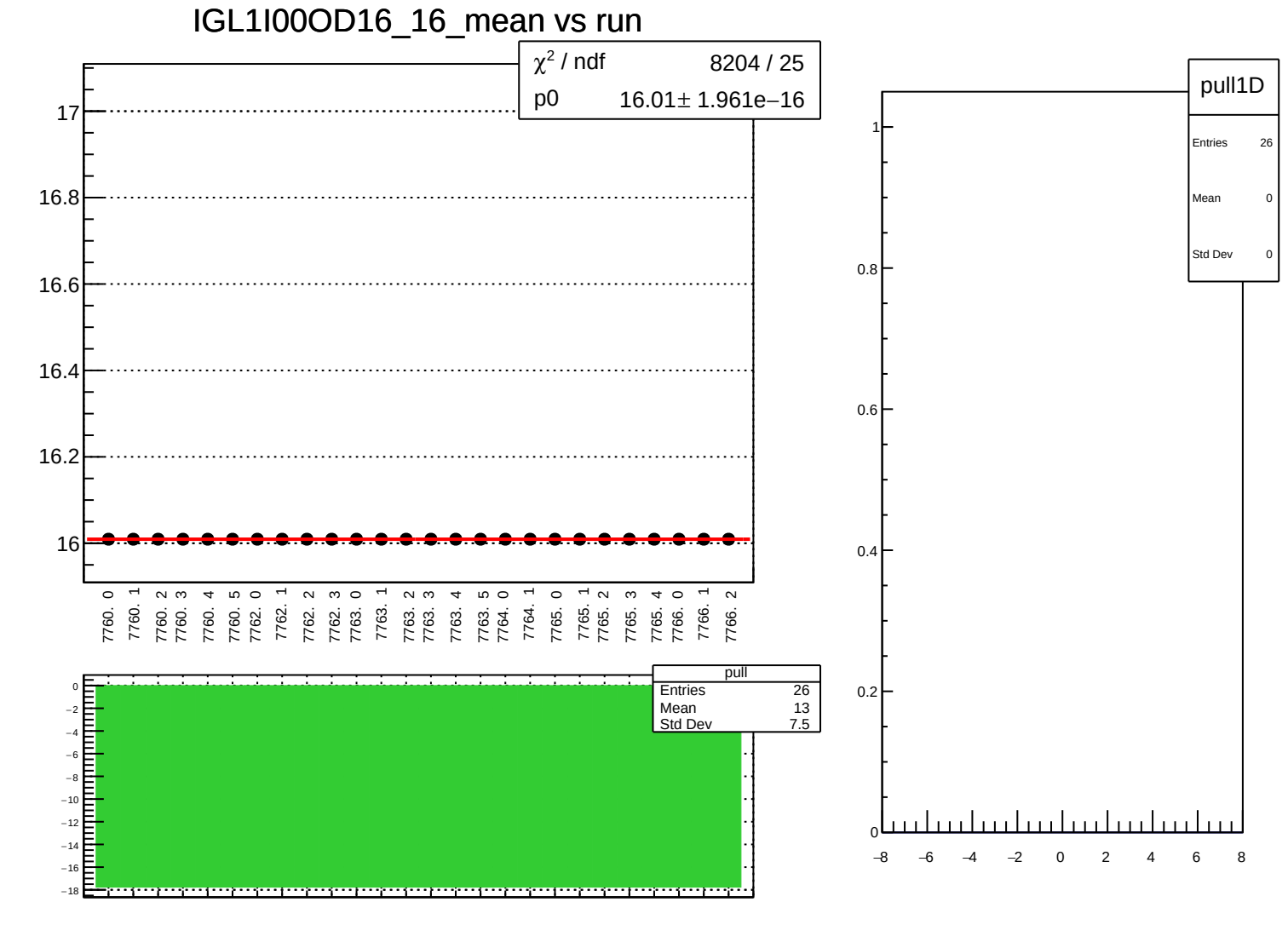

pull1D
Entries 26
Mean 0.001735
Std Dev4.116e−11

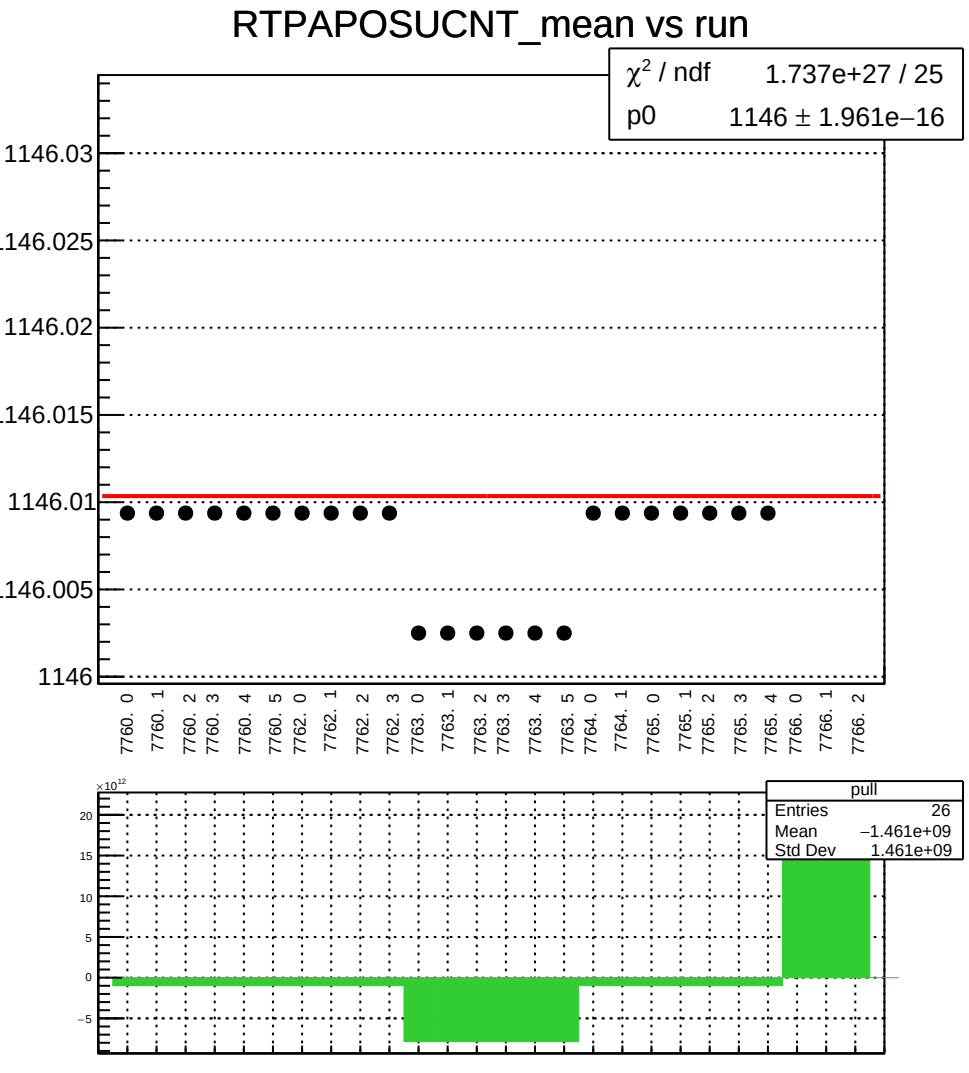

MSUPERBIGBITEreadcalc_mean vs run
χ² / ndf 7.824e−05 / 25
p0 0.009375 ± 1.961e−16
×10⁻³
0000012
0000001
0000007
0000005
0000002
9.375
9999998
9999995
9999993
9999999
9999988
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 13
Std Dev 7.5
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
0
pull1D
Entries 26
Mean 0.001735
Std Dev4.116e−11
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

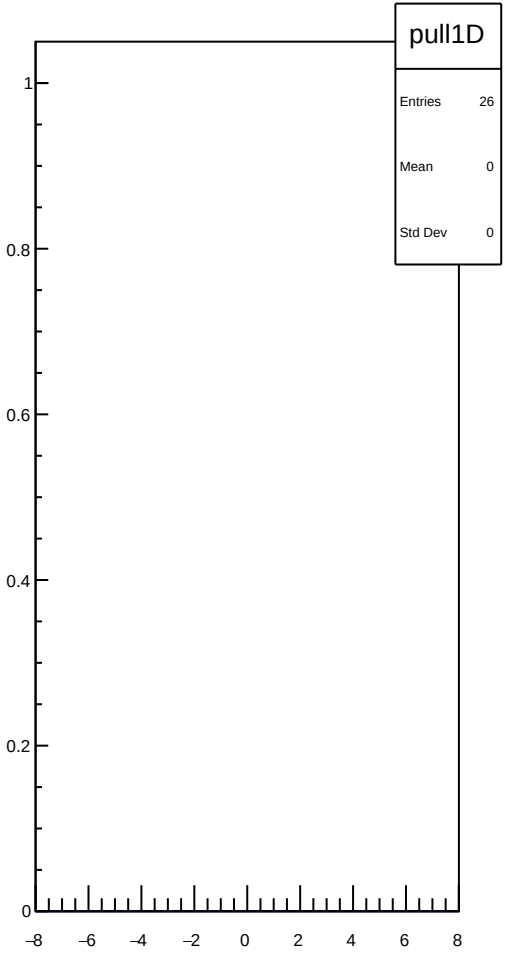

IGL1I00DI24_24M_mean vs run
χ² / ndf 9.86e+24 / 25
p0 17.01± 1.961e−16
17.0094
17.0092
17.009
17.0088
17.0086
17.0084
17.0082
17.008
17.0078
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2

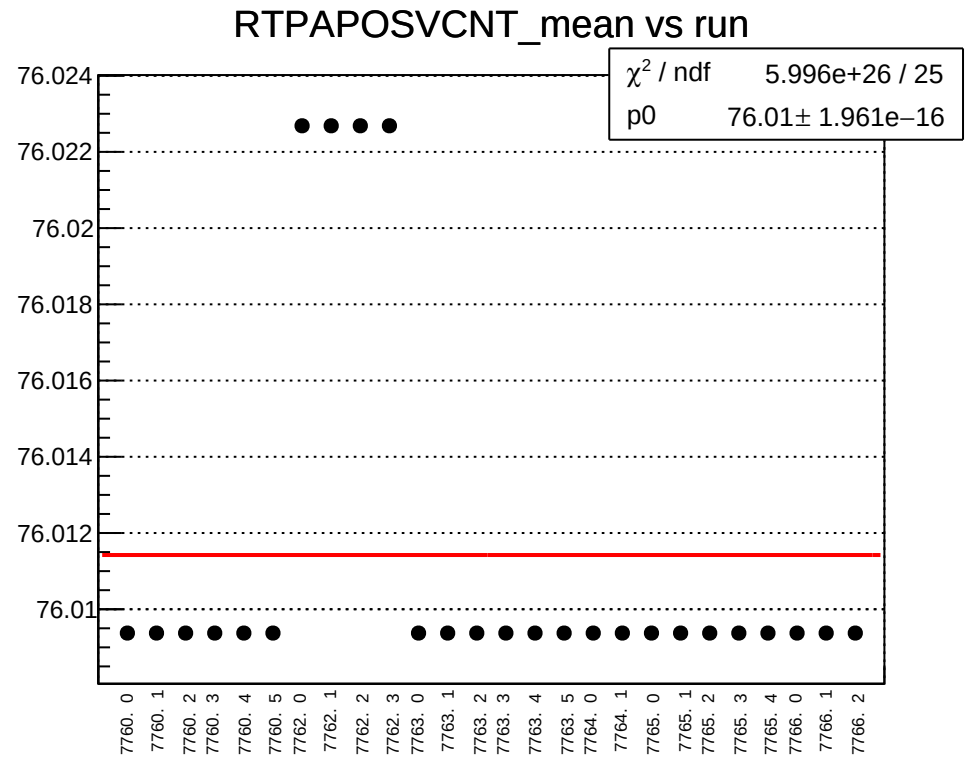

×10⁹
200
0
−200
−400
−600
−800
−1000
−1200
pull
Entries 26
Mean 1.192e+08
Std Dev 1.192e+08

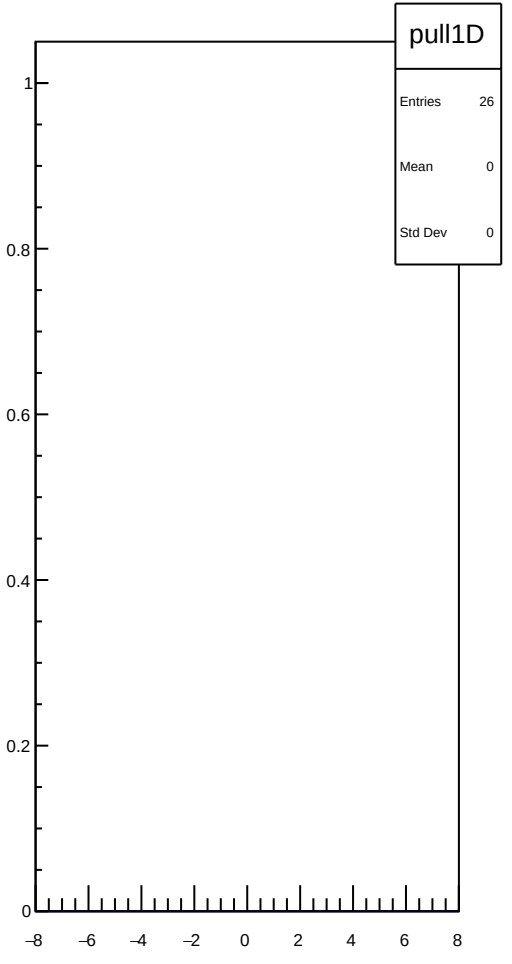

pull1D
Entries 26
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


IGL1I00OD16_16_mean vs run
χ² / ndf 8204 / 25
p0 16.01± 1.961e−16
17
16.8
16.6
16.4
16.2
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
7765. 4
7766. 0
7766. 1
7766. 2
pull
Entries 26
Mean 13
Std Dev 7.5
0
−2
−4
−6
−8
−10
−12
−14
−16
−18
pull1D
Entries 26
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPAPOSUCNT_mean vs run
χ² / ndf 1.737e+27 / 25
p0 1146 ± 1.961e−16
1146.03
1146.025
1146.02
1146.015
1146.01
1146.005
1146
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
×10¹²
20
15
10
5
0
−5
pull
Entries 26
Mean −1.461e+09
Std Dev 1.461e+09


pull1D
Entries 26
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPAPOSVCNT_mean vs run
χ² / ndf 5.996e+26 / 25
p0 76.01± 1.961e−16
76.024
76.022
76.02
76.018
76.016
76.014
76.012
76.01
7760. 0
7760. 1
7760. 2
7760. 3
7760. 4
7760. 5
7762. 0
7762. 1
7762. 2
7762. 3
7763. 0
7763. 1
7763. 2
7763. 3
7763. 4
7763. 5
7764. 0
7764. 1
7765. 0
7765. 1
7765. 2
7765. 3
7765. 4
7766. 0
7766. 1
7766. 2
×10⁹
10000
8000
6000
4000
2000
0
−2000
pull
Entries 26
Mean −8.462e+07
Std Dev 8.462e+07


pull1D
Entries 26
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8